ALMANAC
XXX
TRANSITS OF MERCURY IN CE

The almanac XXX contains a list of transits of Mercury from the 1st millennium CE to the 125th millennium CE.

During the period of 250 000 years, the total number of transits of Mercury is 487 407 transits of Mercury (30 165 transits of Mercury visible from Venus, 40 540 transits of Mercury visible from Earth, 40 443 transits of Mercury visible from Moon, 54 411 transits of Mercury visible from Mars, 68 795 transits of Mercury visible from Jupiter, 73 583 transits of Mercury visible from Saturn, 73 928 transits of Mercury visible from Uranus, 76 531 transits of Mercury visible from Neptune, 29 011 transits of Mercury visible from Pluto).

1ST MILLENNIUM CE

This is a list of transits of Mercury in the 1st millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**1-05-21 02:09**	**J**	**1721563.52**	**1721563.59**	**1721563.66**	**0.0493**	**0.0453**	
Jupiter	**1-08-19 08:38**	**J**	**1721653.70**	**1721653.86**	**1721654.02**	**0.0494**	**0.0227**	
Mars	**2-09-26 00:57**	**J**	**1722056.43**	**1722056.54**	**1722056.66**	**0.1785**	**0.0175**	
Moon	**4-04-15 04:19**	**J**	**1722623.61**	**1722623.68**	**1722623.76**	**0.2636**	**0.2298**	
Earth	**4-04-15 06:14**	**J**	**1722623.65**	**1722623.76**	**1722623.86**	**0.2634**	**0.1974**	*
Uranus	**4-08-28 10:04**	**J**	**1722758.87**	**1722758.92**	**1722758.98**	**0.0135**	**0.0120**	
Uranus	**4-11-24 13:12**	**J**	**1722846.97**	**1722847.05**	**1722847.14**	**0.0135**	**0.0103**	
Uranus	**5-02-20 16:19**	**J**	**1722935.08**	**1722935.18**	**1722935.29**	**0.0135**	**0.0085**	
Uranus	**5-05-19 19:26**	**J**	**1723023.20**	**1723023.31**	**1723023.43**	**0.0135**	**0.0067**	
Uranus	**5-08-15 22:33**	**J**	**1723111.32**	**1723111.44**	**1723111.57**	**0.0135**	**0.0050**	
Venus	**5-11-09 19:55**	**J**	**1723197.28**	**1723197.33**	**1723197.38**	**0.3681**	**0.3148**	
Uranus	**5-11-12 01:40**	**J**	**1723199.45**	**1723199.57**	**1723199.70**	**0.0135**	**0.0032**	
Uranus	**6-02-08 04:47**	**J**	**1723287.57**	**1723287.70**	**1723287.83**	**0.0136**	**0.0014**	
Uranus	**6-05-07 07:55**	**J**	**1723375.70**	**1723375.83**	**1723375.97**	**0.0136**	**0.0005**	
Uranus	**6-08-03 11:02**	**J**	**1723463.83**	**1723463.96**	**1723464.09**	**0.0136**	**0.0022**	
Uranus	**6-10-30 14:09**	**J**	**1723551.97**	**1723552.09**	**1723552.22**	**0.0136**	**0.0039**	
Uranus	**7-01-26 17:16**	**J**	**1723640.10**	**1723640.22**	**1723640.34**	**0.0136**	**0.0057**	
Jupiter	**7-04-23 03:50**	**J**	**1723726.54**	**1723726.66**	**1723726.79**	**0.0533**	**0.0020**	
Uranus	**7-04-24 20:09**	**J**	**1723728.24**	**1723728.34**	**1723728.46**	**0.0136**	**0.0075**	
Uranus	**7-07-21 23:31**	**J**	**1723816.38**	**1723816.48**	**1723816.57**	**0.0136**	**0.0092**	
Earth	**7-10-17 07:26**	**J**	**1723903.73**	**1723903.81**	**1723903.88**	**0.2698**	**0.1836**	
Moon	**7-10-17 07:40**	**J**	**1723903.74**	**1723903.82**	**1723903.90**	**0.2693**	**0.1721**	*
Uranus	**7-10-18 02:24**	**J**	**1723904.53**	**1723904.60**	**1723904.68**	**0.0136**	**0.0110**	
Uranus	**8-01-14 05:16**	**J**	**1723992.69**	**1723992.72**	**1723992.78**	**0.0136**	**0.0129**	
Saturn	**9-04-28 22:04**	**J**	**1724463.29**	**1724463.42**	**1724463.54**	**0.0271**	**0.0196**	

Saturn	**9-07-26 18:00 J**	**1724552.07**	**1724552.25**	**1724552.43**	**0.0270**	**0.0050**
Saturn	**9-10-23 13:55 J**	**1724640.92**	**1724641.08**	**1724641.26**	**0.0269**	**0.0098**
Saturn	**10-01-20 10:19 J**	**1724729.87**	**1724729.93**	**1724730.01**	**0.0269**	**0.0245**
Mars	**12-02-16 10:47 J**	**1725486.84**	**1725486.95**	**1725487.06**	**0.1792**	**0.0403**
Mars	**13-03-14 16:47 J**	**1725879.08**	**1725879.20**	**1725879.32**	**0.1750**	**0.1212**
Jupiter	**13-06-07 06:28 J**	**1725963.59**	**1725963.77**	**1725963.95**	**0.0494**	**0.0056**
Moon	**17-04-18 12:43 J**	**1727374.88**	**1727375.03**	**1727375.18**	**0.2637**	**0.0875**
Earth	**17-04-18 13:55 J**	**1727374.93**	**1727375.08**	**1727375.23**	**0.2632**	**0.0934** *****
Jupiter	**19-02-09 07:40 J**	**1728036.69**	**1728036.82**	**1728036.94**	**0.0533**	**0.0138**
Jupiter	**19-05-09 14:24 J**	**1728126.03**	**1728126.10**	**1728126.17**	**0.0532**	**0.0446**
Moon	**20-10-19 00:43 J**	**1728654.42**	**1728654.53**	**1728654.63**	**0.2692**	**0.0543**
Earth	**20-10-19 00:57 J**	**1728654.43**	**1728654.54**	**1728654.64**	**0.2700**	**0.0466** *****
Mars	**21-07-08 20:24 J**	**1728917.25**	**1728917.35**	**1728917.44**	**0.1798**	**0.1000**
Mars	**22-08-04 14:09 J**	**1729308.92**	**1729309.09**	**1729309.26**	**0.1743**	**0.0204**
Mars	**23-06-14 05:16 J**	**1729622.65**	**1729622.72**	**1729622.79**	**0.1771**	**0.1355**
Saturn	**24-11-18 04:04 J**	**1730145.58**	**1730145.67**	**1730145.76**	**0.0290**	**0.0212**
Saturn	**25-02-14 16:47 J**	**1730234.07**	**1730234.20**	**1730234.33**	**0.0291**	**0.0077**
Jupiter	**25-03-26 04:19 J**	**1730273.51**	**1730273.68**	**1730273.86**	**0.0493**	**0.0115**
Saturn	**25-05-14 05:16 J**	**1730322.59**	**1730322.72**	**1730322.85**	**0.0292**	**0.0058**
Saturn	**25-08-10 17:45 J**	**1730411.14**	**1730411.24**	**1730411.34**	**0.0292**	**0.0193**
Venus	**30-10-04 20:24 J**	**1732292.24**	**1732292.35**	**1732292.47**	**0.3693**	**0.2203**
Jupiter	**30-11-28 11:02 J**	**1732346.86**	**1732346.96**	**1732347.07**	**0.0534**	**0.0292**
Mars	**30-11-29 05:45 J**	**1732347.69**	**1732347.74**	**1732347.79**	**0.1806**	**0.1616**
Jupiter	**31-02-25 18:14 J**	**1732436.16**	**1732436.26**	**1732436.37**	**0.0532**	**0.0300**
Mars	**31-12-25 12:14 J**	**1732738.86**	**1732739.01**	**1732739.16**	**0.1736**	**0.0756**
Mars	**32-11-03 15:07 J**	**1733053.03**	**1733053.13**	**1733053.23**	**0.1778**	**0.0803**
Moon	**33-10-21 17:45 J**	**1733405.14**	**1733405.24**	**1733405.34**	**0.2698**	**0.0858**
Earth	**33-10-21 18:14 J**	**1733405.16**	**1733405.26**	**1733405.37**	**0.2701**	**0.0917** *****
Venus	**34-10-03 08:24 J**	**1733751.82**	**1733751.85**	**1733751.88**	**0.3677**	**0.3484**
Venus	**36-04-20 02:38 J**	**1734316.47**	**1734316.61**	**1734316.74**	**0.3691**	**0.1518**

Jupiter	37-01-12 02:24 J	1734583.46	1734583.60	1734583.75	0.0493	0.0281
Jupiter	37-04-12 09:21 J	1734673.79	1734673.89	1734674.00	0.0494	0.0408
Saturn	38-09-15 23:02 J	1735195.36	1735195.46	1735195.55	0.0271	0.0228
Saturn	38-12-13 18:57 J	1735284.12	1735284.29	1735284.46	0.0270	0.0083
Saturn	39-03-12 15:07 J	1735372.95	1735373.13	1735373.30	0.0270	0.0065
Saturn	39-06-09 11:31 J	1735461.87	1735461.98	1735462.09	0.0269	0.0213
Venus	40-04-18 00:57 J	1735775.45	1735775.54	1735775.62	0.3678	0.2012
Mars	41-05-16 11:02 J	1736168.92	1736168.96	1736169.00	0.1729	0.1674
Mars	42-03-27 00:57 J	1736483.43	1736483.54	1736483.66	0.1785	0.0244
Jupiter	42-09-16 14:09 J	1736657.02	1736657.09	1736657.16	0.0535	0.0454
Jupiter	42-12-14 21:35 J	1736746.28	1736746.40	1736746.53	0.0533	0.0145
Uranus	45-03-23 12:00 J	1737575.95	1737576.00	1737576.08	0.0143	0.0133
Uranus	45-06-19 20:09 J	1737664.22	1737664.34	1737664.48	0.0143	0.0103
Uranus	45-09-16 04:19 J	1737752.53	1737752.68	1737752.86	0.0143	0.0073
Venus	45-11-01 17:16 J	1737799.11	1737799.22	1737799.32	0.3679	0.0571
Uranus	45-12-13 12:43 J	1737840.85	1737841.03	1737841.22	0.0143	0.0043
Uranus	46-03-11 20:52 J	1737929.18	1737929.37	1737929.57	0.0143	0.0013
Uranus	46-06-08 05:16 J	1738017.53	1738017.72	1738017.91	0.0143	0.0018
Uranus	46-09-04 13:26 J	1738105.88	1738106.06	1738106.24	0.0143	0.0048
Moon	46-10-24 11:02 J	1738155.90	1738155.96	1738156.03	0.2703	0.2179
Earth	46-10-24 11:45 J	1738155.94	1738155.99	1738156.05	0.2702	0.2269 *
Uranus	46-12-01 21:35 J	1738194.25	1738194.40	1738194.57	0.0142	0.0079
Uranus	47-02-28 05:45 J	1738282.63	1738282.74	1738282.88	0.0142	0.0110
Uranus	47-05-27 14:09 J	1738371.07	1738371.09	1738371.14	0.0142	0.0140
Jupiter	48-10-31 00:28 J	1738893.45	1738893.52	1738893.60	0.0492	0.0448
Jupiter	49-01-29 06:57 J	1738983.63	1738983.79	1738983.95	0.0494	0.0232
Moon	50-04-16 11:02 J	1739425.83	1739425.96	1739426.09	0.2636	0.1537
Earth	50-04-16 12:43 J	1739425.90	1739426.03	1739426.17	0.2634	0.1422 *
Pluto	51-02-02 03:07 J	1739717.58	1739717.63	1739717.72	0.0072	0.0067
Pluto	51-05-01 05:16 J	1739805.62	1739805.72	1739805.85	0.0072	0.0055

Venus	51-05-18 09:21 J	1739822.79	1739822.89	1739822.99	0.3680	0.0852
Pluto	51-07-28 07:12 J	1739893.67	1739893.80	1739893.95	0.0072	0.0043
Mars	51-08-17 10:47 J	1739913.83	1739913.95	1739914.06	0.1791	0.0349
Pluto	51-10-24 08:52 J	1739981.73	1739981.87	1739982.05	0.0072	0.0032
Pluto	52-01-20 11:02 J	1740069.79	1740069.96	1740070.13	0.0072	0.0020
Pluto	52-04-17 12:57 J	1740157.86	1740158.04	1740158.22	0.0072	0.0009
Pluto	52-07-14 14:38 J	1740245.94	1740246.11	1740246.29	0.0072	0.0003
Mars	52-09-12 17:31 J	1740306.12	1740306.23	1740306.34	0.1750	0.1310
Pluto	52-10-10 16:33 J	1740334.02	1740334.19	1740334.36	0.0072	0.0013
Pluto	53-01-06 18:14 J	1740422.10	1740422.26	1740422.43	0.0072	0.0024
Pluto	53-04-04 19:55 J	1740510.18	1740510.33	1740510.49	0.0071	0.0035
Pluto	53-07-01 21:35 J	1740598.28	1740598.40	1740598.54	0.0071	0.0045
Pluto	53-09-27 23:02 J	1740686.38	1740686.46	1740686.59	0.0071	0.0057
Moon	53-10-17 12:14 J	1740705.92	1740706.01	1740706.10	0.2692	0.1573
Earth	53-10-17 12:00 J	1740705.92	1740706.00	1740706.09	0.2698	0.1554 *
Pluto	53-12-25 01:12 J	1740774.49	1740774.55	1740774.61	0.0071	0.0066
Saturn	54-04-07 07:26 J	1740877.73	1740877.81	1740877.89	0.0289	0.0237
Saturn	54-07-04 20:09 J	1740966.21	1740966.34	1740966.46	0.0290	0.0103
Saturn	54-10-01 08:38 J	1741054.73	1741054.86	1741054.99	0.0291	0.0032
Jupiter	54-10-03 01:40 J	1741056.44	1741056.57	1741056.70	0.0534	0.0001
Saturn	54-12-28 21:07 J	1741143.27	1741143.38	1741143.49	0.0291	0.0166
Venus	56-12-01 01:26 J	1741846.48	1741846.56	1741846.64	0.3681	0.2242
Jupiter	60-11-17 03:50 J	1743293.48	1743293.66	1743293.84	0.0493	0.0050
Mars	61-01-06 20:24 J	1743344.25	1743344.35	1743344.44	0.1799	0.0943
Mars	62-02-02 15:07 J	1743735.96	1743736.13	1743736.29	0.1743	0.0310
Neptune	62-03-20 02:09 J	1743781.59	1743781.59	1743781.60	0.0089	0.0089
Neptune	62-06-16 03:21 J	1743869.61	1743869.64	1743869.71	0.0089	0.0083
Venus	62-06-16 17:31 J	1743870.21	1743870.23	1743870.24	0.3682	0.3598
Neptune	62-09-12 05:16 J	1743957.65	1743957.72	1743957.79	0.0089	0.0075
Neptune	62-12-09 06:28 J	1744045.69	1744045.77	1744045.87	0.0089	0.0068

Mars 62-12-13 05:16 J 1744049.65 1744049.72 1744049.78 0.1771 0.1409

Neptune 63-03-07 07:55 J 1744133.74 1744133.83 1744133.94 0.0089 0.0061

Moon 63-04-19 19:55 J 1744177.19 1744177.33 1744177.47 0.2638 0.1302

Earth 63-04-19 20:52 J 1744177.23 1744177.37 1744177.50 0.2632 0.1507 *

Neptune 63-06-03 09:21 J 1744221.80 1744221.89 1744222.01 0.0089 0.0054

Neptune 63-08-30 11:02 J 1744309.85 1744309.96 1744310.08 0.0089 0.0046

Neptune 63-11-26 12:28 J 1744397.90 1744398.02 1744398.15 0.0089 0.0039

Neptune 64-02-22 13:55 J 1744485.96 1744486.08 1744486.22 0.0089 0.0032

Neptune 64-05-20 15:21 J 1744574.02 1744574.14 1744574.28 0.0089 0.0025

Neptune 64-08-16 16:47 J 1744662.07 1744662.20 1744662.34 0.0089 0.0018

Neptune 64-11-12 18:28 J 1744750.13 1744750.27 1744750.40 0.0089 0.0010

Neptune 65-02-08 19:55 J 1744838.19 1744838.33 1744838.46 0.0089 0.0003

Neptune 65-05-07 21:21 J 1744926.25 1744926.39 1744926.52 0.0089 0.0005

Neptune 65-08-03 22:47 J 1745014.31 1745014.45 1745014.58 0.0089 0.0012

Neptune 65-10-31 00:00 J 1745102.37 1745102.50 1745102.64 0.0089 0.0019

Neptune 66-01-27 01:26 J 1745190.44 1745190.56 1745190.69 0.0089 0.0026

Neptune 66-04-25 02:52 J 1745278.50 1745278.62 1745278.75 0.0089 0.0033

Neptune 66-07-22 04:19 J 1745366.56 1745366.68 1745366.80 0.0089 0.0040

Jupiter 66-07-22 05:45 J 1745366.62 1745366.74 1745366.87 0.0534 0.0142 *

Neptune 66-10-18 05:31 J 1745454.63 1745454.73 1745454.85 0.0089 0.0048

Jupiter 66-10-19 12:43 J 1745455.96 1745456.03 1745456.10 0.0532 0.0444

Moon 66-10-20 05:16 J 1745456.62 1745456.72 1745456.83 0.2693 0.0178

Earth 66-10-20 05:31 J 1745456.63 1745456.73 1745456.84 0.2700 0.0207 *

Neptune 67-01-14 06:57 J 1745542.69 1745542.79 1745542.91 0.0089 0.0055

Neptune 67-04-12 08:24 J 1745630.76 1745630.85 1745630.95 0.0089 0.0061

Neptune 67-07-09 09:50 J 1745718.83 1745718.91 1745719.00 0.0089 0.0068

Neptune 67-10-05 11:02 J 1745806.90 1745806.96 1745807.04 0.0089 0.0076

Neptune 68-01-01 12:28 J 1745894.98 1745895.02 1745895.08 0.0089 0.0083

Saturn 68-02-02 22:47 J 1745927.43 1745927.45 1745927.47 0.0271 0.0268

Neptune 68-03-29 13:55 J 1745983.08 1745983.08 1745983.10 0.0089 0.0089

Saturn	**68-05-01 18:28 J**	**1746016.12**	**1746016.27**	**1746016.44**	**0.0270**	**0.0124**
Saturn	**68-07-29 14:38 J**	**1746104.93**	**1746105.11**	**1746105.29**	**0.0270**	**0.0023**
Saturn	**68-10-26 10:47 J**	**1746193.82**	**1746193.95**	**1746194.10**	**0.0269**	**0.0171**
Mars	**70-05-30 05:45 J**	**1746774.68**	**1746774.74**	**1746774.80**	**0.1806**	**0.1550**
Mars	**71-06-25 12:57 J**	**1747165.89**	**1747166.04**	**1747166.20**	**0.1736**	**0.0661**
Mars	**72-05-04 15:07 J**	**1747480.03**	**1747480.13**	**1747480.23**	**0.1778**	**0.0861**
Jupiter	**72-09-05 01:40 J**	**1747603.40**	**1747603.57**	**1747603.75**	**0.0493**	**0.0121**
Jupiter	**78-05-10 09:21 J**	**1749676.79**	**1749676.89**	**1749677.00**	**0.0534**	**0.0295**
Jupiter	**78-08-07 16:33 J**	**1749766.09**	**1749766.19**	**1749766.30**	**0.0532**	**0.0297**
Moon	**79-10-22 22:33 J**	**1750207.34**	**1750207.44**	**1750207.54**	**0.2699**	**0.1043**
Earth	**79-10-22 23:02 J**	**1750207.37**	**1750207.46**	**1750207.56**	**0.2701**	**0.1194** *
Mars	**80-11-14 11:31 J**	**1750595.92**	**1750595.98**	**1750596.04**	**0.1729**	**0.1593**
Mars	**81-09-25 01:12 J**	**1750910.43**	**1750910.55**	**1750910.66**	**0.1784**	**0.0305**
Saturn	**83-08-25 09:21 J**	**1751609.85**	**1751609.89**	**1751609.93**	**0.0290**	**0.0276**
Saturn	**83-11-21 22:04 J**	**1751698.30**	**1751698.42**	**1751698.54**	**0.0290**	**0.0141**
Saturn	**84-02-18 10:47 J**	**1751786.81**	**1751786.95**	**1751787.08**	**0.0291**	**0.0009**
Saturn	**84-05-16 23:16 J**	**1751875.35**	**1751875.47**	**1751875.59**	**0.0292**	**0.0129**
Jupiter	**84-06-23 23:45 J**	**1751913.35**	**1751913.49**	**1751913.64**	**0.0493**	**0.0289**
Saturn	**84-08-13 11:31 J**	**1751963.93**	**1751963.98**	**1751964.04**	**0.0293**	**0.0263**
Jupiter	**84-09-22 06:43 J**	**1752003.68**	**1752003.78**	**1752003.89**	**0.0495**	**0.0401**
Earth	**86-10-15 23:16 J**	**1752757.46**	**1752757.47**	**1752757.49**	**0.2697**	**0.2651**
Moon	**86-10-16 00:00 J**	**1752757.47**	**1752757.50**	**1752757.52**	**0.2694**	**0.2594** *
Venus	**87-05-11 21:50 J**	**1752965.27**	**1752965.41**	**1752965.55**	**0.3692**	**0.1050**
Uranus	**88-06-21 13:55 J**	**1753372.08**	**1753372.08**	**1753372.09**	**0.0135**	**0.0134**
Uranus	**88-09-17 17:02 J**	**1753460.15**	**1753460.21**	**1753460.28**	**0.0135**	**0.0117**
Uranus	**88-12-14 20:09 J**	**1753548.26**	**1753548.34**	**1753548.44**	**0.0135**	**0.0099**
Uranus	**89-03-12 23:16 J**	**1753636.37**	**1753636.47**	**1753636.58**	**0.0135**	**0.0081**
Uranus	**89-06-09 02:38 J**	**1753724.49**	**1753724.61**	**1753724.72**	**0.0135**	**0.0063**
Uranus	**89-09-05 05:31 J**	**1753812.61**	**1753812.73**	**1753812.86**	**0.0135**	**0.0046**
Uranus	**89-12-02 08:52 J**	**1753900.74**	**1753900.87**	**1753901.00**	**0.0135**	**0.0028**

Jupiter	**90-02-26 12:57 J**	**1753986.97**	**1753987.04**	**1753987.10**	**0.0534**	**0.0451**	
Uranus	**90-02-28 12:00 J**	**1753988.86**	**1753989.00**	**1753989.13**	**0.0135**	**0.0011**	
Jupiter	**90-05-26 20:24 J**	**1754076.22**	**1754076.35**	**1754076.47**	**0.0533**	**0.0148**	
Uranus	**90-05-27 15:07 J**	**1754076.99**	**1754077.13**	**1754077.26**	**0.0136**	**0.0008**	
Uranus	**90-08-23 18:00 J**	**1754165.13**	**1754165.25**	**1754165.39**	**0.0136**	**0.0026**	
Uranus	**90-11-19 21:07 J**	**1754253.26**	**1754253.38**	**1754253.51**	**0.0136**	**0.0043**	
Mars	**91-02-15 10:47 J**	**1754340.83**	**1754340.95**	**1754341.06**	**0.1791**	**0.0284**	
Uranus	**91-02-16 00:14 J**	**1754341.40**	**1754341.51**	**1754341.63**	**0.0136**	**0.0061**	
Venus	**91-05-10 06:14 J**	**1754424.70**	**1754424.76**	**1754424.82**	**0.3677**	**0.2981**	
Uranus	**91-05-15 03:21 J**	**1754429.54**	**1754429.64**	**1754429.75**	**0.0136**	**0.0078**	
Uranus	**91-08-11 06:28 J**	**1754517.68**	**1754517.77**	**1754517.86**	**0.0136**	**0.0096**	
Uranus	**91-11-07 09:35 J**	**1754605.83**	**1754605.90**	**1754605.97**	**0.0136**	**0.0114**	
Uranus	**92-02-03 12:28 J**	**1754694.00**	**1754694.02**	**1754694.06**	**0.0136**	**0.0132**	
Mars	**92-03-13 18:14 J**	**1754733.16**	**1754733.26**	**1754733.36**	**0.1751**	**0.1407**	
Moon	**92-10-24 16:04 J**	**1754958.13**	**1754958.17**	**1754958.21**	**0.2705**	**0.2475**	
Earth	**92-10-24 16:33 J**	**1754958.16**	**1754958.19**	**1754958.22**	**0.2702**	**0.2545**	*****
Venus	**92-11-25 04:04 J**	**1754989.57**	**1754989.67**	**1754989.77**	**0.3691**	**0.2725**	
Jupiter	**96-04-11 22:04 J**	**1756223.36**	**1756223.42**	**1756223.50**	**0.0492**	**0.0451**	
Moon	**96-04-16 18:00 J**	**1756228.11**	**1756228.25**	**1756228.39**	**0.2636**	**0.1134**	
Earth	**96-04-16 19:40 J**	**1756228.17**	**1756228.32**	**1756228.47**	**0.2634**	**0.0848**	*****
Jupiter	**96-07-11 04:33 J**	**1756313.53**	**1756313.69**	**1756313.85**	**0.0494**	**0.0228**	
Venus	**96-11-22 22:33 J**	**1756448.34**	**1756448.44**	**1756448.54**	**0.3678**	**0.1515**	
Saturn	**97-09-18 19:40 J**	**1756748.17**	**1756748.32**	**1756748.47**	**0.0271**	**0.0155**	
Saturn	**97-12-16 15:35 J**	**1756836.97**	**1756837.15**	**1756837.34**	**0.0270**	**0.0011**	
Saturn	**98-03-15 11:45 J**	**1756925.84**	**1756925.99**	**1756926.15**	**0.0269**	**0.0139**	
Moon	**99-10-18 17:02 J**	**1757508.11**	**1757508.21**	**1757508.30**	**0.2691**	**0.1208**	
Earth	**99-10-18 16:47 J**	**1757508.11**	**1757508.20**	**1757508.30**	**0.2698**	**0.1274**	*****
Mars	**100-07-07 20:24 J**	**1757771.25**	**1757771.35**	**1757771.45**	**0.1798**	**0.0881**	
Mars	**101-08-03 15:50 J**	**1758163.00**	**1758163.16**	**1758163.33**	**0.1743**	**0.0412**	
Jupiter	**102-03-14 23:31 J**	**1758386.35**	**1758386.48**	**1758386.61**	**0.0534**	**0.0012**	

Venus	**102-06-08 14:52 J**	**1758472.01**	**1758472.12**	**1758472.22**	**0.3679**	**0.0123**	
Mars	**102-06-13 05:02 J**	**1758476.65**	**1758476.71**	**1758476.78**	**0.1771**	**0.1468**	
Venus	**107-12-23 06:57 J**	**1760495.69**	**1760495.79**	**1760495.89**	**0.3680**	**0.1323**	
Jupiter	**108-04-29 02:09 J**	**1760623.41**	**1760623.59**	**1760623.77**	**0.0493**	**0.0054**	
Moon	**109-04-20 02:52 J**	**1760979.52**	**1760979.62**	**1760979.71**	**0.2638**	**0.2101**	
Earth	**109-04-20 03:35 J**	**1760979.55**	**1760979.65**	**1760979.75**	**0.2632**	**0.2072**	*
Mars	**109-11-28 05:45 J**	**1761201.67**	**1761201.74**	**1761201.80**	**0.1805**	**0.1494**	
Mars	**110-12-24 13:40 J**	**1761592.92**	**1761593.07**	**1761593.23**	**0.1736**	**0.0567**	
Mars	**111-11-03 15:07 J**	**1761907.03**	**1761907.13**	**1761907.23**	**0.1777**	**0.0918**	
Moon	**112-10-20 10:04 J**	**1762258.81**	**1762258.92**	**1762259.03**	**0.2694**	**0.0042**	
Earth	**112-10-20 10:19 J**	**1762258.83**	**1762258.93**	**1762259.04**	**0.2700**	**0.0128**	*
Saturn	**113-04-10 01:40 J**	**1762430.46**	**1762430.57**	**1762430.69**	**0.0290**	**0.0163**	
Saturn	**113-07-07 14:24 J**	**1762518.97**	**1762519.10**	**1762519.23**	**0.0290**	**0.0028**	
Venus	**113-07-07 23:02 J**	**1762519.39**	**1762519.46**	**1762519.53**	**0.3681**	**0.2692**	
Saturn	**113-10-04 02:52 J**	**1762607.50**	**1762607.62**	**1762607.75**	**0.0291**	**0.0106**	
Saturn	**113-12-31 15:21 J**	**1762696.06**	**1762696.14**	**1762696.21**	**0.0292**	**0.0239**	
Jupiter	**114-01-01 03:21 J**	**1762696.52**	**1762696.64**	**1762696.77**	**0.0534**	**0.0159**	
Jupiter	**114-03-31 10:19 J**	**1762785.86**	**1762785.93**	**1762786.01**	**0.0532**	**0.0430**	
Jupiter	**120-02-15 23:02 J**	**1764933.29**	**1764933.46**	**1764933.64**	**0.0493**	**0.0129**	
Mars	**120-05-15 12:28 J**	**1765022.94**	**1765023.02**	**1765023.10**	**0.1729**	**0.1487**	
Mars	**121-03-26 00:57 J**	**1765337.43**	**1765337.54**	**1765337.66**	**0.1784**	**0.0358**	
Jupiter	**125-10-20 07:26 J**	**1767006.71**	**1767006.81**	**1767006.92**	**0.0534**	**0.0302**	
Moon	**125-10-23 03:07 J**	**1767009.54**	**1767009.63**	**1767009.72**	**0.2700**	**0.1426**	
Earth	**125-10-23 03:50 J**	**1767009.57**	**1767009.66**	**1767009.75**	**0.2701**	**0.1469**	*
Jupiter	**126-01-17 14:38 J**	**1767096.01**	**1767096.11**	**1767096.22**	**0.0533**	**0.0292**	
Saturn	**127-02-05 20:09 J**	**1767480.21**	**1767480.34**	**1767480.46**	**0.0271**	**0.0191**	
Saturn	**127-05-05 16:04 J**	**1767568.99**	**1767569.17**	**1767569.35**	**0.0270**	**0.0046**	
Saturn	**127-08-02 12:00 J**	**1767657.84**	**1767658.00**	**1767658.17**	**0.0269**	**0.0101**	
Saturn	**127-10-30 08:24 J**	**1767746.79**	**1767746.85**	**1767746.92**	**0.0269**	**0.0248**	
Uranus	**129-04-12 18:28 J**	**1768277.20**	**1768277.27**	**1768277.36**	**0.0143**	**0.0129**	

Uranus	129-07-10 02:38 J	1768365.48	1768365.61	1768365.75	0.0143	0.0099
Uranus	129-10-06 10:47 J	1768453.79	1768453.95	1768454.12	0.0143	0.0069
Uranus	130-01-02 18:57 J	1768542.11	1768542.29	1768542.48	0.0143	0.0039
Uranus	130-04-01 03:21 J	1768630.45	1768630.64	1768630.83	0.0143	0.0009
Uranus	130-06-28 11:31 J	1768718.79	1768718.98	1768719.17	0.0143	0.0022
Mars	130-08-16 10:47 J	1768767.83	1768767.95	1768768.06	0.1792	0.0223
Uranus	130-09-24 19:40 J	1768807.15	1768807.32	1768807.51	0.0143	0.0052
Uranus	130-12-22 04:04 J	1768895.52	1768895.67	1768895.83	0.0142	0.0083
Uranus	131-03-20 12:00 J	1768983.90	1768984.00	1768984.14	0.0142	0.0114
Mars	131-09-12 18:57 J	1769160.21	1769160.29	1769160.38	0.1751	0.1512
Jupiter	131-12-04 21:07 J	1769243.24	1769243.38	1769243.52	0.0493	0.0297
Jupiter	132-03-04 03:50 J	1769333.55	1769333.66	1769333.77	0.0494	0.0391
Earth	132-10-16 04:04 J	1769559.62	1769559.67	1769559.72	0.2697	0.2365
Moon	132-10-16 04:33 J	1769559.64	1769559.69	1769559.75	0.2693	0.2274 *
Jupiter	137-08-08 11:02 J	1771316.90	1771316.96	1771317.03	0.0534	0.0455
Jupiter	137-11-05 18:28 J	1771406.15	1771406.27	1771406.40	0.0533	0.0144
Venus	138-06-01 17:16 J	1771614.18	1771614.22	1771614.27	0.3693	0.3502
Mars	140-01-06 20:24 J	1772198.25	1772198.35	1772198.45	0.1798	0.0815
Mars	141-02-01 16:19 J	1772590.02	1772590.18	1772590.34	0.1743	0.0492
Mars	141-12-12 05:16 J	1772903.66	1772903.72	1772903.77	0.1770	0.1527
Moon	142-04-18 00:57 J	1773030.38	1773030.54	1773030.70	0.2637	0.0408
Earth	142-04-18 02:24 J	1773030.44	1773030.60	1773030.76	0.2634	0.0282 *
Saturn	142-08-28 03:35 J	1773162.55	1773162.65	1773162.75	0.0290	0.0203
Saturn	142-11-24 16:19 J	1773251.05	1773251.18	1773251.31	0.0291	0.0068
Saturn	143-02-21 04:47 J	1773339.57	1773339.70	1773339.83	0.0292	0.0067
Saturn	143-05-20 17:16 J	1773428.12	1773428.22	1773428.32	0.0292	0.0201
Jupiter	143-09-22 19:12 J	1773553.25	1773553.30	1773553.36	0.0493	0.0463
Venus	143-12-16 23:02 J	1773638.31	1773638.46	1773638.61	0.3692	0.0099
Jupiter	143-12-22 01:40 J	1773643.40	1773643.57	1773643.73	0.0494	0.0218
Neptune	145-03-01 23:16 J	1774079.43	1774079.47	1774079.56	0.0088	0.0082

Neptune	145-05-29 02:52 J	1774167.52	1774167.62	1774167.73	0.0088	0.0072
Neptune	145-08-25 06:00 J	1774255.63	1774255.75	1774255.89	0.0088	0.0063
Moon	145-10-18 21:50 J	1774310.30	1774310.41	1774310.51	0.2691	0.1020
Earth	145-10-18 21:35 J	1774310.30	1774310.40	1774310.50	0.2699	0.0988 *
Neptune	145-11-21 09:07 J	1774343.75	1774343.88	1774344.04	0.0088	0.0054
Neptune	146-02-17 12:43 J	1774431.87	1774432.03	1774432.19	0.0088	0.0044
Neptune	146-05-16 15:50 J	1774519.99	1774520.16	1774520.34	0.0088	0.0035
Neptune	146-08-12 18:57 J	1774608.12	1774608.29	1774608.48	0.0088	0.0026
Neptune	146-11-08 22:19 J	1774696.25	1774696.43	1774696.62	0.0088	0.0017
Neptune	147-02-05 01:40 J	1774784.38	1774784.57	1774784.76	0.0088	0.0007
Neptune	147-05-04 05:02 J	1774872.52	1774872.71	1774872.90	0.0088	0.0002
Neptune	147-07-31 08:09 J	1774960.66	1774960.84	1774961.03	0.0088	0.0012
Neptune	147-10-27 11:16 J	1775048.80	1775048.97	1775049.17	0.0088	0.0022
Venus	147-12-15 03:50 J	1775097.58	1775097.66	1775097.74	0.3677	0.2481
Neptune	148-01-23 14:38 J	1775136.94	1775137.11	1775137.30	0.0088	0.0031
Neptune	148-04-20 18:00 J	1775225.09	1775225.25	1775225.43	0.0088	0.0041
Neptune	148-07-17 21:21 J	1775313.24	1775313.39	1775313.55	0.0088	0.0050
Neptune	148-10-14 00:28 J	1775401.40	1775401.52	1775401.68	0.0088	0.0060
Neptune	149-01-10 04:04 J	1775489.56	1775489.67	1775489.79	0.0088	0.0069
Neptune	149-04-08 07:12 J	1775577.73	1775577.80	1775577.90	0.0088	0.0079
Mars	149-05-29 05:45 J	1775628.67	1775628.74	1775628.81	0.1805	0.1431
Jupiter	149-08-24 22:19 J	1775716.30	1775716.43	1775716.56	0.0533	0.0016
Mars	150-06-24 14:38 J	1776019.95	1776020.11	1776020.27	0.1736	0.0464
Mars	151-05-04 15:07 J	1776334.04	1776334.13	1776334.23	0.1777	0.0979
Venus	153-06-29 20:09 J	1777121.24	1777121.34	1777121.44	0.3678	0.1036
Moon	155-04-21 09:50 J	1777781.86	1777781.91	1777781.96	0.2638	0.2484
Jupiter	155-10-09 23:31 J	1777953.30	1777953.48	1777953.67	0.0493	0.0050
Saturn	156-06-24 21:07 J	1778212.28	1778212.38	1778212.48	0.0271	0.0223
Saturn	156-09-21 17:02 J	1778301.04	1778301.21	1778301.38	0.0270	0.0078
Saturn	156-12-19 12:57 J	1778389.87	1778390.04	1778390.22	0.0270	0.0069

Saturn	**157-03-18 09:21 J**	**1778478.79**	**1778478.89**	**1778479.00**	**0.0269**	**0.0216**	
Moon	**158-10-21 14:38 J**	**1779061.00**	**1779061.11**	**1779061.22**	**0.2695**	**0.0360**	
Earth	**158-10-21 15:07 J**	**1779061.03**	**1779061.13**	**1779061.24**	**0.2700**	**0.0388**	*
Venus	**159-01-13 12:28 J**	**1779144.91**	**1779145.02**	**1779145.12**	**0.3679**	**0.0393**	
Mars	**159-11-14 13:12 J**	**1779449.95**	**1779450.05**	**1779450.14**	**0.1729**	**0.1396**	
Mars	**160-09-24 00:57 J**	**1779764.43**	**1779764.54**	**1779764.66**	**0.1784**	**0.0418**	
Jupiter	**161-06-13 01:12 J**	**1780026.43**	**1780026.55**	**1780026.68**	**0.0534**	**0.0172**	
Jupiter	**161-09-10 08:24 J**	**1780115.77**	**1780115.85**	**1780115.92**	**0.0532**	**0.0417**	
Venus	**164-07-29 04:33 J**	**1781168.60**	**1781168.69**	**1781168.78**	**0.3680**	**0.1782**	
Jupiter	**167-07-28 21:21 J**	**1782263.21**	**1782263.39**	**1782263.57**	**0.0493**	**0.0124**	
Venus	**170-02-11 20:38 J**	**1783192.31**	**1783192.36**	**1783192.41**	**0.3682**	**0.3147**	
Mars	**170-02-14 10:47 J**	**1783194.83**	**1783194.95**	**1783195.06**	**0.1791**	**0.0164**	
Mars	**171-03-13 19:55 J**	**1783587.26**	**1783587.33**	**1783587.39**	**0.1751**	**0.1611**	
Moon	**171-10-24 07:55 J**	**1783811.75**	**1783811.83**	**1783811.92**	**0.2700**	**0.1590**	
Earth	**171-10-24 08:38 J**	**1783811.78**	**1783811.86**	**1783811.94**	**0.2701**	**0.1749**	*
Saturn	**172-01-15 07:26 J**	**1783894.72**	**1783894.81**	**1783894.89**	**0.0290**	**0.0225**	
Saturn	**172-04-12 19:55 J**	**1783983.21**	**1783983.33**	**1783983.46**	**0.0290**	**0.0091**	
Saturn	**172-07-10 08:38 J**	**1784071.73**	**1784071.86**	**1784071.99**	**0.0291**	**0.0045**	
Uranus	**172-07-11 20:52 J**	**1784073.35**	**1784073.37**	**1784073.40**	**0.0135**	**0.0131**	
Saturn	**172-10-06 21:07 J**	**1784160.27**	**1784160.38**	**1784160.48**	**0.0292**	**0.0178**	
Uranus	**172-10-08 00:14 J**	**1784161.44**	**1784161.51**	**1784161.58**	**0.0135**	**0.0113**	
Uranus	**173-01-04 03:07 J**	**1784249.55**	**1784249.63**	**1784249.73**	**0.0135**	**0.0096**	
Jupiter	**173-04-01 05:02 J**	**1784336.61**	**1784336.71**	**1784336.82**	**0.0534**	**0.0320**	
Uranus	**173-04-02 06:14 J**	**1784337.66**	**1784337.76**	**1784337.88**	**0.0135**	**0.0078**	
Uranus	**173-06-29 09:35 J**	**1784425.78**	**1784425.90**	**1784426.02**	**0.0135**	**0.0060**	
Jupiter	**173-06-29 12:28 J**	**1784425.91**	**1784426.02**	**1784426.12**	**0.0533**	**0.0275**	*
Uranus	**173-09-25 12:43 J**	**1784513.90**	**1784514.03**	**1784514.15**	**0.0135**	**0.0043**	
Uranus	**173-12-22 15:50 J**	**1784602.03**	**1784602.16**	**1784602.29**	**0.0135**	**0.0025**	
Uranus	**174-03-20 18:57 J**	**1784690.16**	**1784690.29**	**1784690.42**	**0.0135**	**0.0007**	
Uranus	**174-06-16 22:04 J**	**1784778.29**	**1784778.42**	**1784778.55**	**0.0136**	**0.0011**	

Uranus	174-09-13 00:57 J	1784866.42	1784866.54	1784866.68	0.0136	0.0029
Uranus	174-12-10 04:04 J	1784954.55	1784954.67	1784954.80	0.0136	0.0046
Uranus	175-03-08 07:12 J	1785042.69	1785042.80	1785042.92	0.0136	0.0064
Earth	175-04-16 01:26 J	1785081.54	1785081.56	1785081.58	0.2635	0.2609
Uranus	175-06-04 10:19 J	1785130.83	1785130.93	1785131.04	0.0136	0.0081
Uranus	175-08-31 13:26 J	1785218.97	1785219.06	1785219.15	0.0136	0.0099
Uranus	175-11-27 16:19 J	1785307.13	1785307.18	1785307.26	0.0136	0.0117
Uranus	176-02-23 19:26 J	1785395.30	1785395.31	1785395.34	0.0136	0.0135
Earth	178-10-17 08:52 J	1786361.80	1786361.87	1786361.94	0.2697	0.2080
Moon	178-10-17 09:21 J	1786361.82	1786361.89	1786361.96	0.2691	0.2006 *
Jupiter	179-05-16 18:14 J	1786573.12	1786573.26	1786573.40	0.0493	0.0306
Mars	179-07-07 20:24 J	1786625.24	1786625.35	1786625.45	0.1798	0.0762
Jupiter	179-08-15 00:57 J	1786663.43	1786663.54	1786663.66	0.0494	0.0381
Mars	180-08-02 17:16 J	1787017.07	1787017.22	1787017.38	0.1744	0.0605
Mars	181-06-12 05:02 J	1787330.66	1787330.71	1787330.76	0.1770	0.1581
Jupiter	185-01-18 09:07 J	1788646.82	1788646.88	1788646.94	0.0535	0.0464
Jupiter	185-04-17 16:33 J	1788736.07	1788736.19	1788736.32	0.0533	0.0137
Saturn	185-11-11 21:50 J	1788944.36	1788944.41	1788944.48	0.0271	0.0255
Saturn	186-02-08 17:45 J	1789033.08	1789033.24	1789033.41	0.0270	0.0110
Saturn	186-05-08 13:40 J	1789121.89	1789122.07	1789122.26	0.0270	0.0036
Saturn	186-08-05 09:50 J	1789210.78	1789210.91	1789211.05	0.0269	0.0182
Moon	188-04-18 07:55 J	1789832.67	1789832.83	1789832.99	0.2638	0.0123
Earth	188-04-18 09:07 J	1789832.72	1789832.88	1789833.04	0.2633	0.0283 *
Mars	188-11-27 05:45 J	1790055.67	1790055.74	1790055.82	0.1805	0.1366
Mars	189-12-23 15:21 J	1790446.97	1790447.14	1790447.30	0.1736	0.0376
Mars	190-11-02 15:07 J	1790761.04	1790761.13	1790761.22	0.1777	0.1035
Jupiter	191-03-04 16:19 J	1790883.14	1790883.18	1790883.23	0.0492	0.0472
Jupiter	191-06-02 22:33 J	1790973.28	1790973.44	1790973.61	0.0494	0.0207
Moon	191-10-20 02:24 J	1791112.50	1791112.60	1791112.71	0.2692	0.0680
Earth	191-10-20 02:24 J	1791112.50	1791112.60	1791112.71	0.2699	0.0706 *

Venus	**195-01-06 18:28 J**	**1792287.16**	**1792287.27**	**1792287.38**	**0.3693**	**0.2407**	
Jupiter	**197-02-03 20:24 J**	**1793046.23**	**1793046.35**	**1793046.48**	**0.0533**	**0.0021**	
Venus	**199-01-05 09:07 J**	**1793746.85**	**1793746.88**	**1793746.91**	**0.3677**	**0.3460**	
Mars	**199-05-15 13:40 J**	**1793876.96**	**1793877.07**	**1793877.18**	**0.1729**	**0.1309**	
Mars	**200-03-25 01:12 J**	**1794191.44**	**1794191.55**	**1794191.66**	**0.1784**	**0.0480**	
Venus	**200-07-23 00:28 J**	**1794311.38**	**1794311.52**	**1794311.66**	**0.3691**	**0.1276**	
Saturn	**201-06-03 08:52 J**	**1794626.83**	**1794626.87**	**1794626.93**	**0.0290**	**0.0266**	
Saturn	**201-08-30 21:50 J**	**1794715.29**	**1794715.41**	**1794715.53**	**0.0291**	**0.0131**	
Saturn	**201-11-27 10:19 J**	**1794803.80**	**1794803.93**	**1794804.07**	**0.0291**	**0.0010**	
Saturn	**202-02-23 22:47 J**	**1794892.34**	**1794892.45**	**1794892.57**	**0.0292**	**0.0139**	
Saturn	**202-05-23 11:16 J**	**1794980.93**	**1794980.97**	**1794981.02**	**0.0293**	**0.0272**	
Jupiter	**203-03-21 20:38 J**	**1795283.17**	**1795283.36**	**1795283.54**	**0.0494**	**0.0037**	
Venus	**204-07-21 01:26 J**	**1795770.47**	**1795770.56**	**1795770.65**	**0.3678**	**0.1997**	
Moon	**204-10-21 19:26 J**	**1795863.20**	**1795863.31**	**1795863.41**	**0.2696**	**0.0539**	
Earth	**204-10-21 19:55 J**	**1795863.23**	**1795863.33**	**1795863.44**	**0.2700**	**0.0671**	*
Jupiter	**208-11-23 00:00 J**	**1797356.38**	**1797356.50**	**1797356.62**	**0.0534**	**0.0166**	
Jupiter	**209-02-20 06:57 J**	**1797445.72**	**1797445.79**	**1797445.87**	**0.0532**	**0.0420**	
Mars	**209-08-15 10:47 J**	**1797621.83**	**1797621.95**	**1797622.06**	**0.1791**	**0.0112**	
Venus	**210-02-03 17:45 J**	**1797794.14**	**1797794.24**	**1797794.35**	**0.3679**	**0.0566**	
Mars	**210-09-11 20:24 J**	**1798014.32**	**1798014.35**	**1798014.39**	**0.1751**	**0.1707**	
Pluto	**212-10-15 15:35 J**	**1798779.13**	**1798779.15**	**1798779.19**	**0.0071**	**0.0070**	
Pluto	**213-01-11 16:33 J**	**1798867.13**	**1798867.19**	**1798867.27**	**0.0072**	**0.0061**	
Pluto	**213-04-09 17:16 J**	**1798955.14**	**1798955.22**	**1798955.33**	**0.0072**	**0.0053**	
Uranus	**213-05-03 00:28 J**	**1798978.44**	**1798978.52**	**1798978.62**	**0.0143**	**0.0126**	
Pluto	**213-07-06 18:14 J**	**1799043.16**	**1799043.26**	**1799043.39**	**0.0072**	**0.0044**	
Uranus	**213-07-30 08:38 J**	**1799066.73**	**1799066.86**	**1799067.01**	**0.0143**	**0.0096**	
Pluto	**213-10-02 19:12 J**	**1799131.19**	**1799131.30**	**1799131.44**	**0.0072**	**0.0035**	
Uranus	**213-10-26 16:47 J**	**1799155.04**	**1799155.20**	**1799155.38**	**0.0143**	**0.0066**	
Pluto	**213-12-29 20:09 J**	**1799219.22**	**1799219.34**	**1799219.48**	**0.0072**	**0.0026**	
Uranus	**214-01-23 01:12 J**	**1799243.37**	**1799243.55**	**1799243.74**	**0.0143**	**0.0036**	

Pluto	214-03-27 21:07 J	1799307.25	1799307.38	1799307.53	0.0072	0.0017
Uranus	214-04-21 09:21 J	1799331.70	1799331.89	1799332.09	0.0143	0.0006
Pluto	214-06-23 22:19 J	1799395.29	1799395.43	1799395.57	0.0072	0.0008
Uranus	214-07-18 17:45 J	1799420.05	1799420.24	1799420.43	0.0143	0.0025
Pluto	214-09-19 23:16 J	1799483.33	1799483.47	1799483.61	0.0072	0.0002
Uranus	214-10-15 01:40 J	1799508.40	1799508.57	1799508.76	0.0143	0.0056
Pluto	214-12-17 00:14 J	1799571.37	1799571.51	1799571.65	0.0072	0.0011
Jupiter	215-01-07 18:43 J	1799593.11	1799593.28	1799593.46	0.0493	0.0130
Uranus	215-01-11 10:04 J	1799596.77	1799596.92	1799597.08	0.0142	0.0086
Pluto	215-03-15 00:57 J	1799659.41	1799659.54	1799659.69	0.0073	0.0021
Uranus	215-04-09 18:14 J	1799685.16	1799685.26	1799685.38	0.0142	0.0116
Pluto	215-06-11 01:55 J	1799747.46	1799747.58	1799747.72	0.0073	0.0030
Saturn	215-06-28 18:14 J	1799765.12	1799765.26	1799765.42	0.0270	0.0146
Venus	215-08-20 10:04 J	1799817.82	1799817.92	1799818.02	0.3680	0.0859
Pluto	215-09-07 03:07 J	1799835.51	1799835.63	1799835.75	0.0073	0.0039
Saturn	215-09-25 14:24 J	1799853.92	1799854.10	1799854.28	0.0270	0.0002
Pluto	215-12-04 03:50 J	1799923.57	1799923.66	1799923.78	0.0073	0.0049
Saturn	215-12-23 10:33 J	1799942.79	1799942.94	1799943.10	0.0269	0.0147
Pluto	216-03-01 05:02 J	1800011.63	1800011.71	1800011.80	0.0073	0.0058
Pluto	216-05-28 05:45 J	1800099.71	1800099.74	1800099.81	0.0073	0.0069
Moon	217-10-24 12:43 J	1800613.96	1800614.03	1800614.10	0.2702	0.1994
Earth	217-10-24 13:26 J	1800613.99	1800614.06	1800614.13	0.2701	0.2026 *
Mars	219-01-05 20:24 J	1801052.24	1801052.35	1801052.46	0.1798	0.0695
Mars	220-02-01 18:14 J	1801444.10	1801444.26	1801444.41	0.1744	0.0703
Jupiter	220-09-11 03:07 J	1801666.53	1801666.63	1801666.73	0.0534	0.0330
Jupiter	220-12-09 10:19 J	1801755.82	1801755.93	1801756.04	0.0533	0.0264
Mars	220-12-11 05:02 J	1801757.67	1801757.71	1801757.75	0.1770	0.1639
Venus	221-03-05 02:09 J	1801841.51	1801841.59	1801841.67	0.3681	0.2240
Moon	221-04-16 06:14 J	1801883.68	1801883.76	1801883.85	0.2636	0.2196
Earth	221-04-16 08:09 J	1801883.74	1801883.84	1801883.94	0.2635	0.2052 *

Earth 224-10-17 13:40 J 1803163.99 1803164.07 1803164.15 0.2697 0.1797

Moon 224-10-17 14:09 J 1803164.00 1803164.09 1803164.17 0.2691 0.1775 *

Venus 226-09-18 18:14 J 1803865.24 1803865.26 1803865.28 0.3682 0.3597

Jupiter 226-10-26 16:47 J 1803903.05 1803903.20 1803903.34 0.0493 0.0300

Neptune 226-12-15 02:09 J 1803952.56 1803952.59 1803952.63 0.0089 0.0086

Jupiter 227-01-24 23:16 J 1803993.36 1803993.47 1803993.59 0.0494 0.0387

Neptune 227-03-13 03:35 J 1804040.59 1804040.65 1804040.72 0.0089 0.0078

Neptune 227-06-09 05:02 J 1804128.64 1804128.71 1804128.80 0.0089 0.0071

Neptune 227-09-05 06:43 J 1804216.69 1804216.78 1804216.88 0.0089 0.0064

Neptune 227-12-02 08:09 J 1804304.74 1804304.84 1804304.95 0.0089 0.0057

Neptune 228-02-28 09:35 J 1804392.79 1804392.90 1804393.02 0.0089 0.0049

Neptune 228-05-26 11:02 J 1804480.85 1804480.96 1804481.08 0.0089 0.0042

Mars 228-05-28 05:45 J 1804482.66 1804482.74 1804482.82 0.1805 0.1309

Neptune 228-08-22 12:28 J 1804568.90 1804569.02 1804569.15 0.0089 0.0035

Neptune 228-11-18 14:09 J 1804656.96 1804657.09 1804657.21 0.0089 0.0028

Neptune 229-02-14 15:21 J 1804745.01 1804745.14 1804745.28 0.0089 0.0021

Neptune 229-05-13 16:47 J 1804833.07 1804833.20 1804833.34 0.0089 0.0014

Mars 229-06-23 16:04 J 1804874.01 1804874.17 1804874.34 0.1736 0.0274

Neptune 229-08-09 18:28 J 1804921.13 1804921.27 1804921.40 0.0089 0.0007

Neptune 229-11-05 19:55 J 1805009.19 1805009.33 1805009.46 0.0089 0.0003

Neptune 230-02-01 21:07 J 1805097.25 1805097.38 1805097.52 0.0089 0.0009

Neptune 230-04-30 22:33 J 1805185.31 1805185.44 1805185.58 0.0089 0.0015

Mars 230-05-03 15:07 J 1805188.04 1805188.13 1805188.22 0.1777 0.1096

Neptune 230-07-28 00:00 J 1805273.37 1805273.50 1805273.63 0.0089 0.0022

Saturn 230-10-21 12:28 J 1805359.02 1805359.02 1805359.02 0.0289 0.0289

Neptune 230-10-24 01:26 J 1805361.44 1805361.56 1805361.69 0.0089 0.0029

Saturn 231-01-18 01:12 J 1805447.44 1805447.55 1805447.67 0.0290 0.0155

Neptune 231-01-20 02:52 J 1805449.50 1805449.62 1805449.74 0.0089 0.0037

Saturn 231-04-16 13:55 J 1805535.95 1805536.08 1805536.22 0.0291 0.0020

Neptune 231-04-18 04:19 J 1805537.56 1805537.68 1805537.80 0.0089 0.0044

Saturn	231-07-14 02:24 J	1805624.48	1805624.60	1805624.73	0.0291	0.0115
Neptune	231-07-15 05:45 J	1805625.63	1805625.74	1805625.85	0.0089	0.0051
Saturn	231-10-10 14:52 J	1805713.05	1805713.12	1805713.19	0.0292	0.0248
Neptune	231-10-11 06:57 J	1805713.70	1805713.79	1805713.90	0.0089	0.0058
Neptune	232-01-07 08:24 J	1805801.77	1805801.85	1805801.95	0.0089	0.0065
Neptune	232-04-04 09:50 J	1805889.84	1805889.91	1805889.99	0.0089	0.0072
Jupiter	232-06-30 06:43 J	1805976.73	1805976.78	1805976.83	0.0535	0.0481
Neptune	232-07-01 11:16 J	1805977.91	1805977.97	1805978.03	0.0089	0.0079
Jupiter	232-09-27 14:24 J	1806065.97	1806066.10	1806066.22	0.0533	0.0120
Neptune	232-09-27 12:43 J	1806066.00	1806066.03	1806066.07	0.0089	0.0086 *
Moon	234-04-19 14:38 J	1806634.96	1806635.11	1806635.27	0.2639	0.0696
Earth	234-04-19 15:50 J	1806635.01	1806635.16	1806635.32	0.2633	0.0853 *
Moon	237-10-20 06:57 J	1807914.69	1807914.79	1807914.90	0.2693	0.0456
Earth	237-10-20 07:12 J	1807914.70	1807914.80	1807914.91	0.2699	0.0421 *
Jupiter	238-08-14 13:40 J	1808213.04	1808213.07	1808213.11	0.0492	0.0480
Jupiter	238-11-12 19:55 J	1808303.16	1808303.33	1808303.49	0.0494	0.0198
Mars	238-11-13 14:24 J	1808303.99	1808304.10	1808304.22	0.1729	0.1213
Mars	239-09-24 00:57 J	1808618.43	1808618.54	1808618.65	0.1784	0.0530
Jupiter	244-07-16 18:43 J	1810376.15	1810376.28	1810376.40	0.0534	0.0028
Saturn	244-11-14 19:40 J	1810497.18	1810497.32	1810497.46	0.0271	0.0174
Saturn	245-02-11 15:35 J	1810585.97	1810586.15	1810586.33	0.0270	0.0030
Saturn	245-05-11 11:31 J	1810674.82	1810674.98	1810675.15	0.0269	0.0116
Saturn	245-08-08 07:55 J	1810763.80	1810763.83	1810763.86	0.0269	0.0263
Mars	249-02-13 10:47 J	1812048.84	1812048.95	1812049.07	0.1791	0.0043
Jupiter	250-08-31 17:45 J	1812613.06	1812613.24	1812613.42	0.0493	0.0027
Moon	250-10-23 00:14 J	1812665.41	1812665.51	1812665.61	0.2696	0.0899
Earth	250-10-23 00:43 J	1812665.43	1812665.53	1812665.63	0.2700	0.0951 *
Venus	251-08-13 19:40 J	1812960.18	1812960.32	1812960.45	0.3692	0.1281
Venus	255-08-12 06:43 J	1814419.72	1814419.78	1814419.84	0.3677	0.2964
Jupiter	256-05-04 22:33 J	1814686.31	1814686.44	1814686.56	0.0534	0.0170

Uranus	256-08-01 03:50 J	1814774.63	1814774.66	1814774.71	0.0135	0.0128
Jupiter	256-08-02 05:31 J	1814775.65	1814775.73	1814775.80	0.0532	0.0418
Uranus	256-10-28 06:57 J	1814862.72	1814862.79	1814862.88	0.0135	0.0110
Uranus	257-01-24 10:19 J	1814950.84	1814950.93	1814951.03	0.0135	0.0092
Venus	257-02-27 01:55 J	1814984.47	1814984.58	1814984.69	0.3691	0.2457
Uranus	257-04-22 13:26 J	1815038.95	1815039.06	1815039.17	0.0135	0.0075
Uranus	257-07-19 16:33 J	1815127.07	1815127.19	1815127.31	0.0135	0.0057
Uranus	257-10-15 19:40 J	1815215.20	1815215.32	1815215.45	0.0135	0.0039
Uranus	258-01-11 22:47 J	1815303.32	1815303.45	1815303.58	0.0135	0.0022
Uranus	258-04-10 01:55 J	1815391.45	1815391.58	1815391.72	0.0135	0.0005
Mars	258-07-06 20:24 J	1815479.24	1815479.35	1815479.46	0.1798	0.0634
Uranus	258-07-07 05:02 J	1815479.58	1815479.71	1815479.84	0.0136	0.0014
Uranus	258-10-03 08:09 J	1815567.71	1815567.84	1815567.97	0.0136	0.0032
Uranus	258-12-30 11:16 J	1815655.85	1815655.97	1815656.09	0.0136	0.0049
Uranus	259-03-28 14:24 J	1815743.98	1815744.10	1815744.21	0.0136	0.0067
Uranus	259-06-24 17:16 J	1815832.13	1815832.22	1815832.33	0.0136	0.0085
Mars	259-08-02 18:43 J	1815871.13	1815871.28	1815871.43	0.1744	0.0793
Uranus	259-09-20 20:24 J	1815920.27	1815920.35	1815920.44	0.0136	0.0103
Uranus	259-12-17 23:31 J	1816008.42	1816008.48	1816008.54	0.0136	0.0120
Saturn	260-06-06 02:38 J	1816179.52	1816179.61	1816179.71	0.0290	0.0198
Mars	260-06-11 05:16 J	1816184.69	1816184.72	1816184.75	0.1770	0.1701
Saturn	260-09-02 15:21 J	1816268.01	1816268.14	1816268.28	0.0291	0.0063
Saturn	260-11-30 04:04 J	1816356.54	1816356.67	1816356.80	0.0292	0.0072
Venus	261-02-24 23:16 J	1816443.37	1816443.47	1816443.56	0.3678	0.1514
Saturn	261-02-26 16:33 J	1816445.09	1816445.19	1816445.28	0.0292	0.0206
Jupiter	262-06-19 15:50 J	1816922.98	1816923.16	1816923.33	0.0493	0.0142
Moon	263-10-25 17:31 J	1817416.17	1817416.23	1817416.30	0.2704	0.2171
Earth	263-10-25 18:14 J	1817416.21	1817416.26	1817416.31	0.2701	0.2308 *
Venus	266-09-10 15:35 J	1818467.04	1818467.15	1818467.25	0.3679	0.0166
Moon	267-04-17 13:26 J	1818685.94	1818686.06	1818686.17	0.2637	0.1765

Earth	267-04-17 14:52 J	1818685.99	1818686.12	1818686.26	0.2635	0.1475 *
Mars	267-11-27 05:45 J	1818909.66	1818909.74	1818909.82	0.1805	0.1247
Jupiter	268-02-22 01:55 J	1818996.48	1818996.58	1818996.69	0.0534	0.0323
Jupiter	268-05-21 09:21 J	1819085.78	1819085.89	1819086.00	0.0532	0.0271
Mars	268-12-22 16:47 J	1819301.03	1819301.20	1819301.37	0.1737	0.0180
Mars	269-11-01 15:07 J	1819615.04	1819615.13	1819615.22	0.1777	0.1150
Earth	270-10-18 18:28 J	1819966.18	1819966.27	1819966.36	0.2697	0.1516
Moon	270-10-18 18:43 J	1819966.19	1819966.28	1819966.37	0.2691	0.1430 *
Venus	272-03-26 07:40 J	1820490.72	1820490.82	1820490.92	0.3680	0.1330
Saturn	274-04-03 19:40 J	1821229.22	1821229.32	1821229.44	0.0271	0.0213
Jupiter	274-04-07 14:09 J	1821232.95	1821233.09	1821233.23	0.0493	0.0305
Saturn	274-07-01 15:35 J	1821317.98	1821318.15	1821318.33	0.0270	0.0068
Jupiter	274-07-06 20:52 J	1821323.26	1821323.37	1821323.49	0.0494	0.0382
Saturn	274-09-28 11:45 J	1821406.81	1821406.99	1821407.16	0.0269	0.0078
Saturn	274-12-26 07:55 J	1821495.73	1821495.83	1821495.93	0.0269	0.0224
Venus	277-10-09 23:45 J	1822514.42	1822514.49	1822514.56	0.3681	0.2699
Mars	278-05-14 15:21 J	1822731.01	1822731.14	1822731.27	0.1729	0.1113
Mars	279-03-25 00:57 J	1823045.44	1823045.54	1823045.65	0.1784	0.0596
Jupiter	279-12-11 04:47 J	1823306.66	1823306.70	1823306.76	0.0534	0.0488
Jupiter	280-03-09 12:28 J	1823395.90	1823396.02	1823396.15	0.0533	0.0113
Moon	280-04-19 21:35 J	1823437.26	1823437.40	1823437.54	0.2638	0.1320
Earth	280-04-19 22:47 J	1823437.31	1823437.45	1823437.58	0.2633	0.1426 *
Moon	283-10-21 11:45 J	1824716.88	1824716.99	1824717.10	0.2693	0.0213
Earth	283-10-21 12:00 J	1824716.89	1824717.00	1824717.11	0.2699	0.0147 *
Jupiter	286-01-24 12:14 J	1825542.97	1825543.01	1825543.06	0.0492	0.0472
Jupiter	286-04-24 18:28 J	1825633.10	1825633.27	1825633.44	0.0494	0.0206
Mars	288-08-14 10:47 J	1826475.83	1826475.95	1826476.06	0.1791	0.0022
Saturn	289-10-24 06:00 J	1826911.67	1826911.75	1826911.84	0.0290	0.0223
Saturn	290-01-20 18:43 J	1827000.16	1827000.28	1827000.41	0.0291	0.0089
Saturn	290-04-19 07:26 J	1827088.68	1827088.81	1827088.94	0.0291	0.0046

Saturn	**290-07-16 19:55 J**	**1827177.23**	**1827177.33**	**1827177.44**	**0.0292**	**0.0180**
Jupiter	**291-12-27 16:19 J**	**1827706.06**	**1827706.18**	**1827706.31**	**0.0534**	**0.0038**
Moon	**296-10-23 05:02 J**	**1829467.61**	**1829467.71**	**1829467.80**	**0.2697**	**0.1124**
Earth	**296-10-23 05:31 J**	**1829467.64**	**1829467.73**	**1829467.83**	**0.2700**	**0.1230** *
Uranus	**297-05-23 06:57 J**	**1829679.70**	**1829679.79**	**1829679.89**	**0.0143**	**0.0122**
Uranus	**297-08-19 15:07 J**	**1829767.99**	**1829768.13**	**1829768.28**	**0.0143**	**0.0092**
Uranus	**297-11-15 23:16 J**	**1829856.30**	**1829856.47**	**1829856.65**	**0.0143**	**0.0062**
Mars	**298-01-04 20:24 J**	**1829906.24**	**1829906.35**	**1829906.46**	**0.1798**	**0.0576**
Jupiter	**298-02-10 15:07 J**	**1829942.95**	**1829943.13**	**1829943.31**	**0.0493**	**0.0019**
Uranus	**298-02-12 07:26 J**	**1829944.63**	**1829944.81**	**1829945.00**	**0.0143**	**0.0032**
Pluto	**298-03-13 12:57 J**	**1829974.00**	**1829974.04**	**1829974.10**	**0.0073**	**0.0069**
Uranus	**298-05-11 15:50 J**	**1830032.96**	**1830033.16**	**1830033.35**	**0.0143**	**0.0004**
Pluto	**298-06-09 14:38 J**	**1830062.02**	**1830062.11**	**1830062.24**	**0.0072**	**0.0058**
Uranus	**298-08-07 23:45 J**	**1830121.31**	**1830121.49**	**1830121.69**	**0.0143**	**0.0029**
Pluto	**298-09-05 16:47 J**	**1830150.07**	**1830150.20**	**1830150.35**	**0.0072**	**0.0046**
Uranus	**298-11-04 08:09 J**	**1830209.67**	**1830209.84**	**1830210.02**	**0.0142**	**0.0059**
Pluto	**298-12-02 18:28 J**	**1830238.13**	**1830238.27**	**1830238.44**	**0.0072**	**0.0035**
Uranus	**299-01-31 16:04 J**	**1830298.04**	**1830298.17**	**1830298.34**	**0.0142**	**0.0090**
Mars	**299-01-31 19:40 J**	**1830298.17**	**1830298.32**	**1830298.46**	**0.1744**	**0.0895** *
Pluto	**299-02-28 20:24 J**	**1830326.19**	**1830326.35**	**1830326.53**	**0.0072**	**0.0023**
Uranus	**299-04-30 00:28 J**	**1830386.43**	**1830386.52**	**1830386.64**	**0.0142**	**0.0120**
Pluto	**299-05-27 22:19 J**	**1830414.26**	**1830414.43**	**1830414.61**	**0.0072**	**0.0012**
Pluto	**299-08-24 00:14 J**	**1830502.34**	**1830502.51**	**1830502.69**	**0.0072**	**0.0001**
Pluto	**299-11-20 01:55 J**	**1830590.41**	**1830590.58**	**1830590.76**	**0.0072**	**0.0011**
Mars	**299-12-11 05:02 J**	**1830611.70**	**1830611.71**	**1830611.72**	**0.1770**	**0.1751**
Pluto	**300-02-16 03:50 J**	**1830678.49**	**1830678.66**	**1830678.83**	**0.0072**	**0.0022**
Pluto	**300-05-14 05:31 J**	**1830766.58**	**1830766.73**	**1830766.89**	**0.0071**	**0.0033**
Pluto	**300-08-10 07:12 J**	**1830854.67**	**1830854.80**	**1830854.95**	**0.0071**	**0.0043**
Pluto	**300-11-06 08:38 J**	**1830942.77**	**1830942.86**	**1830943.00**	**0.0071**	**0.0055**
Pluto	**301-02-02 10:47 J**	**1831030.88**	**1831030.95**	**1831031.03**	**0.0071**	**0.0064**

Venus	**302-09-03 15:21 J**	**1831609.13**	**1831609.14**	**1831609.14**	**0.3693**	**0.3690**	
Saturn	**303-08-21 20:52 J**	**1831961.30**	**1831961.37**	**1831961.46**	**0.0271**	**0.0242**	
Jupiter	**303-10-15 20:38 J**	**1832016.24**	**1832016.36**	**1832016.48**	**0.0534**	**0.0175**	
Earth	**303-10-17 05:45 J**	**1832017.71**	**1832017.74**	**1832017.76**	**0.2696**	**0.2614**	
Moon	**303-10-17 06:14 J**	**1832017.72**	**1832017.76**	**1832017.80**	**0.2692**	**0.2464**	*
Saturn	**303-11-18 16:47 J**	**1832050.03**	**1832050.20**	**1832050.37**	**0.0270**	**0.0098**	
Jupiter	**304-01-13 03:35 J**	**1832105.58**	**1832105.65**	**1832105.73**	**0.0532**	**0.0414**	
Saturn	**304-02-15 12:43 J**	**1832138.85**	**1832139.03**	**1832139.21**	**0.0270**	**0.0048**	
Saturn	**304-05-14 08:52 J**	**1832227.75**	**1832227.87**	**1832228.00**	**0.0269**	**0.0194**	
Mars	**307-05-28 06:00 J**	**1833336.66**	**1833336.75**	**1833336.83**	**0.1805**	**0.1183**	
Venus	**308-03-19 20:52 J**	**1833633.23**	**1833633.37**	**1833633.52**	**0.3692**	**0.0151**	
Mars	**308-06-22 17:31 J**	**1833728.07**	**1833728.23**	**1833728.40**	**0.1737**	**0.0088**	
Mars	**309-05-02 15:07 J**	**1834042.05**	**1834042.13**	**1834042.21**	**0.1777**	**0.1210**	
Neptune	**309-08-30 19:26 J**	**1834162.29**	**1834162.31**	**1834162.36**	**0.0088**	**0.0086**	
Moon	**309-10-25 22:19 J**	**1834218.40**	**1834218.43**	**1834218.46**	**0.2705**	**0.2544**	
Earth	**309-10-25 23:02 J**	**1834218.43**	**1834218.46**	**1834218.49**	**0.2701**	**0.2587**	*
Neptune	**309-11-26 22:33 J**	**1834250.37**	**1834250.44**	**1834250.55**	**0.0088**	**0.0077**	
Jupiter	**309-11-29 13:12 J**	**1834252.88**	**1834253.05**	**1834253.22**	**0.0493**	**0.0149**	
Neptune	**310-02-23 01:40 J**	**1834338.47**	**1834338.57**	**1834338.71**	**0.0088**	**0.0068**	
Neptune	**310-05-22 05:16 J**	**1834426.59**	**1834426.72**	**1834426.87**	**0.0088**	**0.0058**	
Neptune	**310-08-18 08:24 J**	**1834514.71**	**1834514.85**	**1834515.02**	**0.0088**	**0.0049**	
Neptune	**310-11-14 11:31 J**	**1834602.83**	**1834602.98**	**1834603.16**	**0.0088**	**0.0040**	
Neptune	**311-02-10 15:07 J**	**1834690.95**	**1834691.13**	**1834691.31**	**0.0088**	**0.0030**	
Neptune	**311-05-09 18:14 J**	**1834779.08**	**1834779.26**	**1834779.45**	**0.0088**	**0.0021**	
Neptune	**311-08-05 21:35 J**	**1834867.21**	**1834867.40**	**1834867.59**	**0.0088**	**0.0012**	
Neptune	**311-11-02 00:57 J**	**1834955.35**	**1834955.54**	**1834955.73**	**0.0088**	**0.0002**	
Neptune	**312-01-29 04:04 J**	**1835043.49**	**1835043.67**	**1835043.86**	**0.0088**	**0.0008**	
Venus	**312-03-18 04:33 J**	**1835092.61**	**1835092.69**	**1835092.77**	**0.3677**	**0.2466**	
Neptune	**312-04-26 07:26 J**	**1835131.63**	**1835131.81**	**1835132.00**	**0.0088**	**0.0017**	
Neptune	**312-07-23 10:47 J**	**1835219.77**	**1835219.95**	**1835220.13**	**0.0088**	**0.0026**	

Neptune	312-10-19 13:55 J	1835307.91	1835308.08	1835308.26	0.0088	0.0036
Neptune	313-01-15 17:31 J	1835396.06	1835396.23	1835396.39	0.0088	0.0045
Neptune	313-04-13 20:24 J	1835484.22	1835484.35	1835484.51	0.0088	0.0055
Moon	313-04-17 20:09 J	1835488.19	1835488.34	1835488.48	0.2638	0.1000
Earth	313-04-17 21:35 J	1835488.25	1835488.40	1835488.55	0.2635	0.0917 *
Neptune	313-07-10 23:31 J	1835572.38	1835572.48	1835572.63	0.0088	0.0065
Venus	313-10-04 03:21 J	1835657.63	1835657.64	1835657.65	0.3690	0.3670
Neptune	313-10-07 03:07 J	1835660.54	1835660.63	1835660.74	0.0088	0.0074
Neptune	314-01-03 06:14 J	1835748.73	1835748.76	1835748.84	0.0088	0.0084
Jupiter	315-08-04 00:28 J	1836326.42	1836326.52	1836326.62	0.0534	0.0323
Jupiter	315-11-01 07:40 J	1836415.71	1836415.82	1836415.93	0.0533	0.0272
Earth	316-10-18 23:16 J	1836768.37	1836768.47	1836768.57	0.2698	0.1230
Moon	316-10-18 23:31 J	1836768.38	1836768.48	1836768.57	0.2691	0.1244 *
Venus	317-10-01 20:52 J	1837116.27	1837116.37	1837116.47	0.3678	0.1019
Mars	317-11-12 15:50 J	1837158.03	1837158.16	1837158.29	0.1730	0.1029
Mars	318-09-23 01:12 J	1837472.44	1837472.55	1837472.65	0.1784	0.0656
Saturn	319-03-13 07:12 J	1837643.75	1837643.80	1837643.85	0.0290	0.0270
Saturn	319-06-09 19:55 J	1837732.21	1837732.33	1837732.45	0.0290	0.0135
Saturn	319-09-06 08:38 J	1837820.73	1837820.86	1837820.99	0.0291	0.0000
Saturn	319-12-03 21:07 J	1837909.26	1837909.38	1837909.50	0.0292	0.0134
Saturn	320-03-01 09:21 J	1837997.85	1837997.89	1837997.95	0.0293	0.0268
Jupiter	321-09-17 11:16 J	1838562.84	1838562.97	1838563.12	0.0493	0.0315
Jupiter	321-12-16 18:00 J	1838653.13	1838653.25	1838653.37	0.0494	0.0372
Venus	323-04-17 13:12 J	1839139.94	1839140.05	1839140.15	0.3679	0.0404
Moon	326-04-21 04:33 J	1840239.58	1840239.69	1840239.81	0.2638	0.1856
Earth	326-04-21 05:31 J	1840239.63	1840239.73	1840239.83	0.2633	0.2010 *
Jupiter	327-05-23 03:50 J	1840636.61	1840636.66	1840636.72	0.0534	0.0478
Jupiter	327-08-20 11:31 J	1840725.86	1840725.98	1840726.11	0.0533	0.0123
Mars	328-02-13 10:47 J	1840902.83	1840902.95	1840903.07	0.1791	0.0076
Venus	328-10-31 05:16 J	1841163.63	1841163.72	1841163.81	0.3680	0.1797

Moon	**329-10-21 16:19 J**	**1841519.08**	**1841519.18**	**1841519.29**	**0.2693**	**0.0164**
Earth	**329-10-21 16:47 J**	**1841519.09**	**1841519.20**	**1841519.31**	**0.2699**	**0.0146** *
Saturn	**333-04-06 16:19 J**	**1842782.03**	**1842782.18**	**1842782.33**	**0.0270**	**0.0141**
Saturn	**333-07-04 12:14 J**	**1842870.83**	**1842871.01**	**1842871.19**	**0.0270**	**0.0004**
Jupiter	**333-07-06 10:04 J**	**1842872.88**	**1842872.92**	**1842872.97**	**0.0493**	**0.0474**
Saturn	**333-10-01 08:24 J**	**1842959.70**	**1842959.85**	**1842960.00**	**0.0269**	**0.0150**
Jupiter	**333-10-04 16:19 J**	**1842963.01**	**1842963.18**	**1842963.34**	**0.0494**	**0.0204**
Venus	**334-05-16 21:21 J**	**1843187.34**	**1843187.39**	**1843187.44**	**0.3681**	**0.3155**
Mars	**337-07-05 20:24 J**	**1844333.24**	**1844333.35**	**1844333.46**	**0.1798**	**0.0516**
Mars	**338-08-01 20:24 J**	**1844725.22**	**1844725.35**	**1844725.49**	**0.1744**	**0.1000**
Jupiter	**339-06-08 14:52 J**	**1845035.99**	**1845036.12**	**1845036.25**	**0.0533**	**0.0037**
Uranus	**340-08-21 10:47 J**	**1845475.91**	**1845475.95**	**1845476.01**	**0.0135**	**0.0125**
Uranus	**340-11-17 13:55 J**	**1845564.01**	**1845564.08**	**1845564.17**	**0.0135**	**0.0107**
Uranus	**341-02-13 17:16 J**	**1845652.12**	**1845652.22**	**1845652.32**	**0.0135**	**0.0089**
Uranus	**341-05-12 20:24 J**	**1845740.24**	**1845740.35**	**1845740.47**	**0.0135**	**0.0072**
Uranus	**341-08-08 23:31 J**	**1845828.36**	**1845828.48**	**1845828.61**	**0.0135**	**0.0054**
Uranus	**341-11-05 02:38 J**	**1845916.49**	**1845916.61**	**1845916.74**	**0.0135**	**0.0036**
Uranus	**342-02-01 05:45 J**	**1846004.61**	**1846004.74**	**1846004.88**	**0.0136**	**0.0019**
Uranus	**342-04-30 08:52 J**	**1846092.74**	**1846092.87**	**1846093.01**	**0.0136**	**0.0004**
Uranus	**342-07-27 12:00 J**	**1846180.87**	**1846181.00**	**1846181.14**	**0.0136**	**0.0018**
Uranus	**342-10-23 15:07 J**	**1846269.01**	**1846269.13**	**1846269.26**	**0.0136**	**0.0035**
Moon	**342-10-24 09:35 J**	**1846269.81**	**1846269.90**	**1846270.00**	**0.2699**	**0.1409**
Earth	**342-10-24 10:19 J**	**1846269.84**	**1846269.93**	**1846270.02**	**0.2700**	**0.1509** *
Uranus	**343-01-19 18:14 J**	**1846357.14**	**1846357.26**	**1846357.38**	**0.0136**	**0.0053**
Uranus	**343-04-17 21:21 J**	**1846445.28**	**1846445.39**	**1846445.50**	**0.0136**	**0.0070**
Uranus	**343-07-15 00:14 J**	**1846533.42**	**1846533.51**	**1846533.62**	**0.0136**	**0.0088**
Uranus	**343-10-11 03:35 J**	**1846621.57**	**1846621.65**	**1846621.73**	**0.0136**	**0.0106**
Uranus	**344-01-07 06:28 J**	**1846709.72**	**1846709.77**	**1846709.83**	**0.0136**	**0.0123**
Jupiter	**345-07-23 13:55 J**	**1847272.90**	**1847273.08**	**1847273.27**	**0.0493**	**0.0033**
Mars	**346-11-26 05:45 J**	**1847763.65**	**1847763.74**	**1847763.83**	**0.1805**	**0.1126**

Mars	**347-12-22 18:14 J**	**1848155.10**	**1848155.26**	**1848155.43**	**0.1737**	**0.0033**
Saturn	**348-10-26 22:47 J**	**1848464.34**	**1848464.45**	**1848464.56**	**0.0290**	**0.0165**
Mars	**348-10-31 15:07 J**	**1848469.05**	**1848469.13**	**1848469.21**	**0.1777**	**0.1266**
Saturn	**349-01-23 11:31 J**	**1848552.85**	**1848552.98**	**1848553.12**	**0.0291**	**0.0030**
Saturn	**349-04-22 00:14 J**	**1848641.38**	**1848641.51**	**1848641.63**	**0.0292**	**0.0105**
Saturn	**349-07-19 12:28 J**	**1848729.95**	**1848730.02**	**1848730.10**	**0.0292**	**0.0238**
Earth	**349-10-17 10:33 J**	**1848819.88**	**1848819.94**	**1848819.99**	**0.2696**	**0.2329**
Moon	**349-10-17 11:02 J**	**1848819.91**	**1848819.96**	**1848820.01**	**0.2691**	**0.2305** *****
Jupiter	**351-03-27 18:43 J**	**1849346.16**	**1849346.28**	**1849346.40**	**0.0534**	**0.0184**
Jupiter	**351-06-25 01:40 J**	**1849435.49**	**1849435.57**	**1849435.65**	**0.0532**	**0.0405**
Mars	**356-04-17 15:07 J**	**1851194.10**	**1851194.13**	**1851194.16**	**0.1812**	**0.1746**
Jupiter	**357-05-11 10:47 J**	**1851582.78**	**1851582.95**	**1851583.12**	**0.0493**	**0.0153**
Mars	**357-05-13 16:47 J**	**1851585.06**	**1851585.20**	**1851585.34**	**0.1730**	**0.0925**
Mars	**358-03-24 00:57 J**	**1851899.44**	**1851899.54**	**1851899.65**	**0.1784**	**0.0711**
Venus	**359-04-10 16:19 J**	**1852282.08**	**1852282.18**	**1852282.29**	**0.3693**	**0.2585**
Moon	**359-04-19 02:52 J**	**1852290.46**	**1852290.62**	**1852290.77**	**0.2638**	**0.0656**
Earth	**359-04-19 04:19 J**	**1852290.52**	**1852290.68**	**1852290.84**	**0.2634**	**0.0354** *****
Saturn	**362-08-24 17:16 J**	**1853514.09**	**1853514.22**	**1853514.37**	**0.0271**	**0.0171**
Moon	**362-10-20 04:04 J**	**1853570.57**	**1853570.67**	**1853570.77**	**0.2691**	**0.0888**
Earth	**362-10-20 04:04 J**	**1853570.57**	**1853570.67**	**1853570.77**	**0.2698**	**0.0949** *****
Saturn	**362-11-21 13:12 J**	**1853602.87**	**1853603.05**	**1853603.23**	**0.0270**	**0.0026**
Jupiter	**363-01-13 22:47 J**	**1853656.35**	**1853656.45**	**1853656.55**	**0.0535**	**0.0327**
Saturn	**363-02-18 09:21 J**	**1853691.72**	**1853691.89**	**1853692.05**	**0.0269**	**0.0120**
Venus	**363-04-09 09:35 J**	**1853741.87**	**1853741.90**	**1853741.94**	**0.3676**	**0.3443**
Jupiter	**363-04-13 06:14 J**	**1853745.65**	**1853745.76**	**1853745.87**	**0.0533**	**0.0269**
Saturn	**363-05-18 05:31 J**	**1853780.71**	**1853780.73**	**1853780.76**	**0.0269**	**0.0266**
Venus	**364-10-24 22:19 J**	**1854306.29**	**1854306.43**	**1854306.57**	**0.3691**	**0.1043**
Mars	**367-08-14 10:47 J**	**1855329.84**	**1855329.95**	**1855330.07**	**0.1791**	**0.0136**
Venus	**368-10-23 02:09 J**	**1855765.50**	**1855765.59**	**1855765.68**	**0.3678**	**0.1972**
Jupiter	**369-02-27 09:07 J**	**1855892.75**	**1855892.88**	**1855893.02**	**0.0493**	**0.0318**

Jupiter	**369-05-28 15:35**	**J**	**1855983.03**	**1855983.15**	**1855983.27**	**0.0494**	**0.0367**
Moon	**372-04-21 11:45**	**J**	**1857041.97**	**1857041.99**	**1857042.01**	**0.2639**	**0.2610**
Earth	**372-04-21 12:14**	**J**	**1857041.98**	**1857042.01**	**1857042.04**	**0.2633**	**0.2574** *
Venus	**374-05-08 18:28**	**J**	**1857789.17**	**1857789.27**	**1857789.38**	**0.3679**	**0.0548**
Jupiter	**374-11-02 02:38**	**J**	**1857966.55**	**1857966.61**	**1857966.67**	**0.0535**	**0.0475**
Jupiter	**375-01-30 10:19**	**J**	**1858055.80**	**1858055.93**	**1858056.05**	**0.0533**	**0.0126**
Moon	**375-10-22 21:07**	**J**	**1858321.28**	**1858321.38**	**1858321.49**	**0.2693**	**0.0335**
Earth	**375-10-22 21:35**	**J**	**1858321.29**	**1858321.40**	**1858321.51**	**0.2699**	**0.0427** *
Mars	**377-01-03 20:24**	**J**	**1858760.24**	**1858760.35**	**1858760.46**	**0.1797**	**0.0454**
Mars	**378-01-30 20:52**	**J**	**1859152.24**	**1859152.37**	**1859152.51**	**0.1744**	**0.1083**
Saturn	**378-03-15 23:45**	**J**	**1859196.40**	**1859196.49**	**1859196.58**	**0.0290**	**0.0213**
Saturn	**378-06-12 12:28**	**J**	**1859284.89**	**1859285.02**	**1859285.15**	**0.0291**	**0.0078**
Saturn	**378-09-09 01:12**	**J**	**1859373.42**	**1859373.55**	**1859373.68**	**0.0291**	**0.0056**
Saturn	**378-12-06 13:26**	**J**	**1859461.97**	**1859462.06**	**1859462.17**	**0.0292**	**0.0190**
Venus	**379-11-22 10:47**	**J**	**1859812.85**	**1859812.95**	**1859813.05**	**0.3680**	**0.0876**
Jupiter	**380-12-16 07:40**	**J**	**1860202.78**	**1860202.82**	**1860202.86**	**0.0492**	**0.0480**
Jupiter	**381-03-16 13:40**	**J**	**1860292.90**	**1860293.07**	**1860293.24**	**0.0494**	**0.0198**
Uranus	**381-06-12 13:40**	**J**	**1860380.98**	**1860381.07**	**1860381.19**	**0.0143**	**0.0117**
Uranus	**381-09-08 21:50**	**J**	**1860469.27**	**1860469.41**	**1860469.57**	**0.0143**	**0.0087**
Uranus	**381-12-06 06:00**	**J**	**1860557.58**	**1860557.75**	**1860557.93**	**0.0143**	**0.0057**
Uranus	**382-03-04 14:24**	**J**	**1860645.91**	**1860646.10**	**1860646.29**	**0.0143**	**0.0027**
Uranus	**382-05-31 22:33**	**J**	**1860734.25**	**1860734.44**	**1860734.63**	**0.0143**	**0.0003**
Uranus	**382-08-28 06:43**	**J**	**1860822.60**	**1860822.78**	**1860822.97**	**0.0143**	**0.0034**
Uranus	**382-11-24 14:52**	**J**	**1860910.95**	**1860911.12**	**1860911.30**	**0.0142**	**0.0064**
Uranus	**383-02-20 23:02**	**J**	**1860999.33**	**1860999.46**	**1860999.61**	**0.0142**	**0.0094**
Uranus	**383-05-20 07:12**	**J**	**1861087.72**	**1861087.80**	**1861087.91**	**0.0142**	**0.0125**
Venus	**385-06-07 02:52**	**J**	**1861836.54**	**1861836.62**	**1861836.70**	**0.3681**	**0.2252**
Mars	**386-05-27 05:45**	**J**	**1862190.65**	**1862190.74**	**1862190.84**	**0.1805**	**0.1064**
Jupiter	**386-11-18 14:09**	**J**	**1862365.96**	**1862366.09**	**1862366.22**	**0.0533**	**0.0024**
Mars	**387-06-22 19:12**	**J**	**1862582.13**	**1862582.30**	**1862582.47**	**0.1737**	**0.0115**

Mars 388-05-01 15:07 J 1862896.06 1862896.13 1862896.21 0.1776 0.1326

Moon 388-10-24 14:24 J 1863072.02 1863072.10 1863072.18 0.2701 0.1721

Earth 388-10-24 15:07 J 1863072.05 1863072.13 1863072.21 0.2700 0.1790 *

Venus 390-12-21 18:57 J 1863860.27 1863860.29 1863860.31 0.3682 0.3604

Neptune 391-06-15 00:43 J 1864035.53 1864035.53 1864035.55 0.0089 0.0089

Neptune 391-09-11 02:09 J 1864123.55 1864123.59 1864123.65 0.0089 0.0082

Neptune 391-12-08 03:35 J 1864211.59 1864211.65 1864211.73 0.0089 0.0075

Saturn 392-01-11 16:04 J 1864246.07 1864246.17 1864246.28 0.0271 0.0219

Neptune 392-03-05 05:02 J 1864299.63 1864299.71 1864299.81 0.0089 0.0068

Saturn 392-04-09 12:00 J 1864334.83 1864335.00 1864335.17 0.0270 0.0074

Neptune 392-06-01 06:28 J 1864387.68 1864387.77 1864387.88 0.0089 0.0061

Saturn 392-07-07 07:55 J 1864423.66 1864423.83 1864424.01 0.0269 0.0071

Neptune 392-08-28 08:09 J 1864475.74 1864475.84 1864475.95 0.0089 0.0053

Saturn 392-10-04 04:04 J 1864512.57 1864512.67 1864512.78 0.0269 0.0217

Neptune 392-11-24 09:35 J 1864563.79 1864563.90 1864564.02 0.0089 0.0046

Jupiter 393-01-02 12:00 J 1864602.82 1864603.00 1864603.18 0.0494 0.0032

Neptune 393-02-20 11:02 J 1864651.84 1864651.96 1864652.09 0.0089 0.0038

Neptune 393-05-19 12:28 J 1864739.90 1864740.02 1864740.15 0.0089 0.0031

Neptune 393-08-15 14:09 J 1864827.96 1864828.09 1864828.22 0.0089 0.0024

Neptune 393-11-11 15:35 J 1864916.01 1864916.15 1864916.28 0.0089 0.0017

Neptune 394-02-07 17:02 J 1865004.07 1865004.21 1865004.34 0.0089 0.0010

Neptune 394-05-06 18:28 J 1865092.13 1865092.27 1865092.40 0.0089 0.0003

Neptune 394-08-02 19:55 J 1865180.19 1865180.33 1865180.46 0.0089 0.0005

Neptune 394-10-29 21:07 J 1865268.25 1865268.38 1865268.52 0.0089 0.0013

Neptune 395-01-25 22:33 J 1865356.31 1865356.44 1865356.58 0.0089 0.0019

Neptune 395-04-24 00:00 J 1865444.38 1865444.50 1865444.63 0.0089 0.0026

Neptune 395-07-21 01:26 J 1865532.44 1865532.56 1865532.69 0.0089 0.0033

Neptune 395-10-17 02:52 J 1865620.50 1865620.62 1865620.74 0.0089 0.0040

Mars 395-10-17 15:07 J 1865621.09 1865621.13 1865621.17 0.1812 0.1687

Earth 395-10-18 15:21 J 1865622.07 1865622.14 1865622.21 0.2696 0.2051

Moon	395-10-18 15:50 J	1865622.08	1865622.16	1865622.23	0.2692	0.1918	*
Neptune	396-01-13 04:04 J	1865708.57	1865708.67	1865708.80	0.0089	0.0048	
Neptune	396-04-10 05:31 J	1865796.63	1865796.73	1865796.85	0.0089	0.0055	
Neptune	396-07-07 06:57 J	1865884.70	1865884.79	1865884.90	0.0089	0.0062	
Neptune	396-10-03 08:24 J	1865972.77	1865972.85	1865972.94	0.0089	0.0068	
Mars	396-11-11 17:31 J	1866012.08	1866012.23	1866012.37	0.1730	0.0837	
Neptune	396-12-30 09:50 J	1866060.85	1866060.91	1866060.99	0.0089	0.0075	
Neptune	397-03-28 11:02 J	1866148.92	1866148.96	1866149.02	0.0089	0.0083	
Neptune	397-06-24 12:43 J	1866237.03	1866237.03	1866237.04	0.0089	0.0089	
Mars	397-09-22 00:57 J	1866326.44	1866326.54	1866326.65	0.1784	0.0768	
Jupiter	398-09-06 17:16 J	1866676.10	1866676.22	1866676.34	0.0534	0.0182	
Jupiter	398-12-05 00:28 J	1866765.44	1866765.52	1866765.60	0.0532	0.0407	
Jupiter	404-10-21 10:04 J	1868912.75	1868912.92	1868913.09	0.0493	0.0137	
Moon	405-04-19 09:35 J	1869092.74	1869092.90	1869093.06	0.2638	0.0139	
Earth	405-04-19 11:02 J	1869092.80	1869092.96	1869093.12	0.2634	0.0216	*
Mars	407-02-12 10:47 J	1869756.84	1869756.95	1869757.06	0.1790	0.0194	
Saturn	407-08-03 02:09 J	1869928.52	1869928.59	1869928.66	0.0290	0.0247	
Saturn	407-10-30 14:52 J	1870017.00	1870017.12	1870017.25	0.0290	0.0113	
Saturn	408-01-27 03:35 J	1870105.52	1870105.65	1870105.79	0.0291	0.0023	
Saturn	408-04-24 16:04 J	1870194.06	1870194.17	1870194.29	0.0292	0.0157	
Saturn	408-07-22 04:33 J	1870282.68	1870282.69	1870282.71	0.0293	0.0289	
Moon	408-10-20 08:38 J	1870372.76	1870372.86	1870372.97	0.2691	0.0746	
Earth	408-10-20 08:52 J	1870372.76	1870372.87	1870372.97	0.2698	0.0666	*
Jupiter	410-06-25 21:07 J	1870986.28	1870986.38	1870986.48	0.0534	0.0331	
Jupiter	410-09-23 04:33 J	1871075.58	1871075.69	1871075.80	0.0533	0.0265	
Venus	415-11-15 17:45 J	1872955.10	1872955.24	1872955.37	0.3693	0.1467	
Mars	416-07-04 20:24 J	1873187.24	1873187.35	1873187.46	0.1798	0.0396	
Jupiter	416-08-09 07:12 J	1873222.66	1873222.80	1873222.94	0.0492	0.0317	
Jupiter	416-11-07 13:40 J	1873312.95	1873313.07	1873313.19	0.0494	0.0367	
Mars	417-07-31 22:04 J	1873579.30	1873579.42	1873579.54	0.1745	0.1195	

Venus	**419-11-14 07:26 J**	**1874414.75**	**1874414.81**	**1874414.87**	**0.3677**	**0.2939**
Saturn	**421-05-30 17:02 J**	**1874978.15**	**1874978.21**	**1874978.28**	**0.0271**	**0.0250**
Venus	**421-05-31 23:45 J**	**1874979.37**	**1874979.49**	**1874979.61**	**0.3691**	**0.2217**
Saturn	**421-08-27 12:43 J**	**1875066.87**	**1875067.03**	**1875067.20**	**0.0270**	**0.0106**
Moon	**421-10-23 01:55 J**	**1875123.48**	**1875123.58**	**1875123.68**	**0.2695**	**0.0690**
Earth	**421-10-23 02:24 J**	**1875123.50**	**1875123.60**	**1875123.70**	**0.2699**	**0.0708 ***
Saturn	**421-11-24 08:38 J**	**1875155.68**	**1875155.86**	**1875156.04**	**0.0270**	**0.0039**
Saturn	**422-02-21 04:47 J**	**1875244.57**	**1875244.70**	**1875244.83**	**0.0269**	**0.0185**
Jupiter	**422-04-14 01:12 J**	**1875296.49**	**1875296.55**	**1875296.60**	**0.0535**	**0.0477**
Jupiter	**422-07-12 08:52 J**	**1875385.74**	**1875385.87**	**1875385.99**	**0.0534**	**0.0127**
Uranus	**424-09-10 18:00 J**	**1876177.20**	**1876177.25**	**1876177.31**	**0.0135**	**0.0121**
Uranus	**424-12-07 21:07 J**	**1876265.30**	**1876265.38**	**1876265.47**	**0.0135**	**0.0104**
Uranus	**425-03-06 00:14 J**	**1876353.41**	**1876353.51**	**1876353.62**	**0.0135**	**0.0086**
Venus	**425-05-30 00:00 J**	**1876438.40**	**1876438.50**	**1876438.59**	**0.3678**	**0.1494**
Uranus	**425-06-02 03:21 J**	**1876441.53**	**1876441.64**	**1876441.76**	**0.0135**	**0.0068**
Uranus	**425-08-29 06:28 J**	**1876529.65**	**1876529.77**	**1876529.90**	**0.0135**	**0.0051**
Mars	**425-11-25 06:00 J**	**1876617.65**	**1876617.75**	**1876617.84**	**0.1805**	**0.0998**
Uranus	**425-11-25 09:50 J**	**1876617.78**	**1876617.91**	**1876618.04**	**0.0136**	**0.0033 ***
Uranus	**426-02-21 12:57 J**	**1876705.91**	**1876706.04**	**1876706.17**	**0.0136**	**0.0015**
Uranus	**426-05-20 16:04 J**	**1876794.04**	**1876794.17**	**1876794.30**	**0.0136**	**0.0004**
Uranus	**426-08-16 19:12 J**	**1876882.17**	**1876882.30**	**1876882.43**	**0.0136**	**0.0021**
Uranus	**426-11-12 22:19 J**	**1876970.30**	**1876970.43**	**1876970.55**	**0.0136**	**0.0038**
Mars	**426-12-21 19:40 J**	**1877009.16**	**1877009.32**	**1877009.49**	**0.1737**	**0.0202**
Uranus	**427-02-09 01:12 J**	**1877058.44**	**1877058.55**	**1877058.68**	**0.0136**	**0.0056**
Uranus	**427-05-08 04:19 J**	**1877146.57**	**1877146.68**	**1877146.79**	**0.0136**	**0.0074**
Uranus	**427-08-04 07:26 J**	**1877234.72**	**1877234.81**	**1877234.91**	**0.0136**	**0.0091**
Uranus	**427-10-31 10:19 J**	**1877322.86**	**1877322.93**	**1877323.02**	**0.0136**	**0.0109**
Mars	**427-10-31 15:07 J**	**1877323.06**	**1877323.13**	**1877323.20**	**0.1777**	**0.1382**
Uranus	**428-01-27 13:40 J**	**1877411.02**	**1877411.07**	**1877411.12**	**0.0136**	**0.0127**
Jupiter	**428-05-28 05:45 J**	**1877532.70**	**1877532.74**	**1877532.78**	**0.0492**	**0.0478**

Jupiter	**428-08-26 11:31 J**	**1877622.82**	**1877622.98**	**1877623.15**	**0.0494**	**0.0198**
Venus	**430-12-13 16:19 J**	**1878462.07**	**1878462.18**	**1878462.28**	**0.3679**	**0.0138**
Jupiter	**434-04-30 12:57 J**	**1879695.91**	**1879696.04**	**1879696.17**	**0.0534**	**0.0016**
Moon	**434-10-25 19:12 J**	**1879874.22**	**1879874.30**	**1879874.37**	**0.2701**	**0.1926**
Earth	**434-10-25 19:55 J**	**1879874.26**	**1879874.33**	**1879874.40**	**0.2700**	**0.2071** *
Mars	**435-04-17 15:07 J**	**1880048.08**	**1880048.13**	**1880048.18**	**0.1811**	**0.1624**
Mars	**436-05-12 18:00 J**	**1880439.10**	**1880439.25**	**1880439.40**	**0.1730**	**0.0746**
Venus	**436-06-28 08:24 J**	**1880485.75**	**1880485.85**	**1880485.95**	**0.3680**	**0.1333**
Saturn	**437-03-18 15:35 J**	**1880749.04**	**1880749.15**	**1880749.27**	**0.0290**	**0.0163**
Mars	**437-03-23 01:12 J**	**1880753.44**	**1880753.55**	**1880753.65**	**0.1783**	**0.0832**
Saturn	**437-06-15 04:19 J**	**1880837.55**	**1880837.68**	**1880837.82**	**0.0291**	**0.0029**
Saturn	**437-09-11 16:47 J**	**1880926.08**	**1880926.20**	**1880926.33**	**0.0291**	**0.0106**
Saturn	**437-12-09 05:16 J**	**1881014.65**	**1881014.72**	**1881014.80**	**0.0292**	**0.0238**
Moon	**438-04-17 08:24 J**	**1881143.78**	**1881143.85**	**1881143.93**	**0.2638**	**0.2303**
Earth	**438-04-17 10:19 J**	**1881143.83**	**1881143.93**	**1881144.02**	**0.2636**	**0.2110** *
Jupiter	**440-06-14 09:50 J**	**1881932.73**	**1881932.91**	**1881933.09**	**0.0493**	**0.0030**
Earth	**441-10-18 20:09 J**	**1882424.26**	**1882424.34**	**1882424.42**	**0.2697**	**0.1765**
Moon	**441-10-18 20:24 J**	**1882424.27**	**1882424.35**	**1882424.43**	**0.2691**	**0.1742** *
Venus	**442-01-12 00:28 J**	**1882509.45**	**1882509.52**	**1882509.59**	**0.3681**	**0.2706**
Mars	**445-10-02 17:02 J**	**1883869.17**	**1883869.21**	**1883869.25**	**0.1723**	**0.1649**
Jupiter	**446-02-16 16:47 J**	**1884006.08**	**1884006.20**	**1884006.32**	**0.0534**	**0.0165**
Jupiter	**446-05-16 23:45 J**	**1884095.42**	**1884095.49**	**1884095.57**	**0.0532**	**0.0424**
Mars	**446-08-13 10:47 J**	**1884183.83**	**1884183.95**	**1884184.06**	**0.1790**	**0.0254**
Saturn	**451-01-14 10:47 J**	**1885798.81**	**1885798.95**	**1885799.10**	**0.0271**	**0.0159**
Saturn	**451-04-13 06:43 J**	**1885887.60**	**1885887.78**	**1885887.96**	**0.0270**	**0.0015**
Moon	**451-04-20 16:47 J**	**1885895.04**	**1885895.20**	**1885895.35**	**0.2639**	**0.0561**
Earth	**451-04-20 17:45 J**	**1885895.09**	**1885895.24**	**1885895.40**	**0.2634**	**0.0787** *
Saturn	**451-07-11 02:38 J**	**1885976.46**	**1885976.61**	**1885976.78**	**0.0269**	**0.0131**
Jupiter	**452-04-02 08:24 J**	**1886242.67**	**1886242.85**	**1886243.02**	**0.0493**	**0.0133**
Moon	**454-10-21 13:26 J**	**1887174.96**	**1887175.06**	**1887175.17**	**0.2691**	**0.0357**

Earth	**454-10-21 13:40 J**	**1887174.96**	**1887175.07**	**1887175.18**	**0.2698**	**0.0384**	*
Mars	**456-01-03 20:24 J**	**1887614.24**	**1887614.35**	**1887614.47**	**0.1797**	**0.0336**	
Mars	**457-01-29 22:47 J**	**1888006.34**	**1888006.45**	**1888006.56**	**0.1745**	**0.1291**	
Jupiter	**457-12-05 19:55 J**	**1888316.23**	**1888316.33**	**1888316.44**	**0.0534**	**0.0324**	
Jupiter	**458-03-05 03:21 J**	**1888405.53**	**1888405.64**	**1888405.75**	**0.0533**	**0.0271**	
Pluto	**460-02-21 02:52 J**	**1889123.57**	**1889123.62**	**1889123.68**	**0.0071**	**0.0066**	
Pluto	**460-05-19 03:35 J**	**1889211.58**	**1889211.65**	**1889211.75**	**0.0072**	**0.0057**	
Pluto	**460-08-15 04:33 J**	**1889299.60**	**1889299.69**	**1889299.80**	**0.0072**	**0.0049**	
Pluto	**460-11-11 05:31 J**	**1889387.62**	**1889387.73**	**1889387.86**	**0.0072**	**0.0040**	
Pluto	**461-02-07 06:28 J**	**1889475.65**	**1889475.77**	**1889475.90**	**0.0072**	**0.0031**	
Pluto	**461-05-06 07:26 J**	**1889563.68**	**1889563.81**	**1889563.95**	**0.0072**	**0.0022**	
Pluto	**461-08-02 08:24 J**	**1889651.71**	**1889651.85**	**1889651.99**	**0.0072**	**0.0013**	
Pluto	**461-10-29 09:21 J**	**1889739.75**	**1889739.89**	**1889740.04**	**0.0072**	**0.0004**	
Pluto	**462-01-25 10:19 J**	**1889827.79**	**1889827.93**	**1889828.08**	**0.0072**	**0.0006**	
Pluto	**462-04-23 11:16 J**	**1889915.83**	**1889915.97**	**1889916.11**	**0.0072**	**0.0015**	
Pluto	**462-07-20 12:14 J**	**1890003.88**	**1890004.01**	**1890004.15**	**0.0073**	**0.0024**	
Pluto	**462-10-16 12:57 J**	**1890091.93**	**1890092.04**	**1890092.18**	**0.0073**	**0.0034**	
Pluto	**463-01-12 14:09 J**	**1890179.98**	**1890180.09**	**1890180.21**	**0.0073**	**0.0043**	
Pluto	**463-04-10 14:52 J**	**1890268.04**	**1890268.12**	**1890268.23**	**0.0073**	**0.0053**	
Pluto	**463-07-07 16:04 J**	**1890356.11**	**1890356.17**	**1890356.25**	**0.0073**	**0.0062**	
Pluto	**463-10-03 17:02 J**	**1890444.20**	**1890444.21**	**1890444.24**	**0.0073**	**0.0072**	
Jupiter	**464-01-20 06:43 J**	**1890552.64**	**1890552.78**	**1890552.92**	**0.0493**	**0.0298**	
Jupiter	**464-04-19 13:12 J**	**1890642.94**	**1890643.05**	**1890643.16**	**0.0494**	**0.0388**	
Uranus	**465-04-05 13:12 J**	**1890994.02**	**1890994.05**	**1890994.10**	**0.0143**	**0.0139**	
Mars	**465-05-26 05:45 J**	**1891044.64**	**1891044.74**	**1891044.84**	**0.1804**	**0.0944**	
Uranus	**465-07-02 21:21 J**	**1891082.27**	**1891082.39**	**1891082.51**	**0.0143**	**0.0109**	
Uranus	**465-09-29 05:16 J**	**1891170.57**	**1891170.72**	**1891170.89**	**0.0143**	**0.0080**	
Uranus	**465-12-26 13:26 J**	**1891258.89**	**1891259.06**	**1891259.25**	**0.0143**	**0.0050**	
Uranus	**466-03-24 21:35 J**	**1891347.22**	**1891347.40**	**1891347.60**	**0.0143**	**0.0020**	
Uranus	**466-06-21 06:00 J**	**1891435.56**	**1891435.75**	**1891435.94**	**0.0143**	**0.0011**	

Mars	466-06-21 20:38 J	1891436.19	1891436.36	1891436.52	0.1737	0.0304
Saturn	466-08-05 17:45 J	1891481.14	1891481.24	1891481.34	0.0290	0.0200
Uranus	466-09-17 14:09 J	1891523.90	1891524.09	1891524.27	0.0142	0.0041
Saturn	466-11-02 06:28 J	1891569.64	1891569.77	1891569.90	0.0291	0.0066
Uranus	466-12-14 22:04 J	1891612.27	1891612.42	1891612.60	0.0142	0.0071
Saturn	467-01-29 19:12 J	1891658.17	1891658.30	1891658.43	0.0291	0.0068
Uranus	467-03-13 06:14 J	1891700.64	1891700.76	1891700.91	0.0142	0.0102
Saturn	467-04-28 07:40 J	1891746.72	1891746.82	1891746.91	0.0292	0.0201
Mars	467-05-01 15:07 J	1891750.07	1891750.13	1891750.20	0.1776	0.1440
Uranus	467-06-09 14:38 J	1891789.05	1891789.11	1891789.19	0.0142	0.0131
Moon	467-10-24 06:28 J	1891925.67	1891925.77	1891925.88	0.2696	0.0847
Earth	467-10-24 07:12 J	1891925.70	1891925.80	1891925.90	0.2699	0.0988 *
Jupiter	469-09-23 23:45 J	1892626.43	1892626.49	1892626.54	0.0535	0.0475
Jupiter	469-12-22 07:26 J	1892715.68	1892715.81	1892715.93	0.0533	0.0128
Venus	472-06-21 18:57 J	1893628.14	1893628.29	1893628.43	0.3692	0.0347
Neptune	474-05-27 18:43 J	1894333.22	1894333.28	1894333.36	0.0088	0.0081
Neptune	474-08-23 21:50 J	1894421.32	1894421.41	1894421.53	0.0088	0.0072
Mars	474-10-16 15:07 J	1894475.07	1894475.13	1894475.19	0.1812	0.1564
Neptune	474-11-20 00:57 J	1894509.43	1894509.54	1894509.68	0.0088	0.0063
Neptune	475-02-16 04:04 J	1894597.54	1894597.67	1894597.84	0.0088	0.0054
Neptune	475-05-15 07:40 J	1894685.66	1894685.82	1894685.98	0.0088	0.0044
Neptune	475-08-11 10:47 J	1894773.79	1894773.95	1894774.13	0.0088	0.0035
Neptune	475-11-07 13:55 J	1894861.91	1894862.08	1894862.27	0.0088	0.0026
Jupiter	475-11-08 04:04 J	1894862.63	1894862.67	1894862.72	0.0492	0.0474
Mars	475-11-11 18:57 J	1894866.13	1894866.29	1894866.44	0.1730	0.0650
Neptune	476-02-03 17:31 J	1894950.04	1894950.23	1894950.41	0.0088	0.0016
Jupiter	476-02-06 09:50 J	1894952.75	1894952.91	1894953.08	0.0493	0.0202
Neptune	476-05-01 20:38 J	1895038.18	1895038.36	1895038.55	0.0088	0.0007
Venus	476-06-20 05:02 J	1895087.64	1895087.71	1895087.79	0.3677	0.2456
Neptune	476-07-29 00:00 J	1895126.31	1895126.50	1895126.69	0.0088	0.0003

Mars 476-09-21 00:57 J 1895180.44 1895180.54 1895180.64 0.1783 0.0881

Neptune 476-10-25 03:07 J 1895214.45 1895214.63 1895214.82 0.0088 0.0012

Neptune 477-01-21 06:14 J 1895302.59 1895302.76 1895302.96 0.0088 0.0022

Neptune 477-04-19 09:50 J 1895390.73 1895390.91 1895391.09 0.0088 0.0031

Neptune 477-07-16 12:57 J 1895478.88 1895479.04 1895479.22 0.0088 0.0041

Neptune 477-10-12 16:19 J 1895567.03 1895567.18 1895567.34 0.0088 0.0050

Venus 478-01-06 00:57 J 1895652.49 1895652.54 1895652.60 0.3691 0.3379

Neptune 478-01-08 19:26 J 1895655.19 1895655.31 1895655.46 0.0088 0.0060

Neptune 478-04-06 23:02 J 1895743.35 1895743.46 1895743.58 0.0088 0.0069

Neptune 478-07-04 02:09 J 1895831.52 1895831.59 1895831.69 0.0088 0.0079

Saturn 480-06-02 11:16 J 1896530.85 1896530.97 1896531.10 0.0271 0.0193

Saturn 480-08-30 07:12 J 1896619.62 1896619.80 1896619.98 0.0270 0.0049

Moon 480-10-26 00:00 J 1896676.44 1896676.50 1896676.55 0.2701 0.2300

Earth 480-10-26 00:43 J 1896676.48 1896676.53 1896676.58 0.2700 0.2351 *

Saturn 480-11-27 03:07 J 1896708.47 1896708.63 1896708.80 0.0270 0.0097

Saturn 481-02-23 23:16 J 1896797.40 1896797.47 1896797.55 0.0269 0.0243

Jupiter 481-10-10 11:31 J 1897025.85 1897025.98 1897026.11 0.0534 0.0018

Venus 482-01-03 21:35 J 1897111.30 1897111.40 1897111.50 0.3678 0.1006

Moon 484-04-17 15:07 J 1897946.01 1897946.13 1897946.25 0.2637 0.1782

Earth 484-04-17 16:47 J 1897946.07 1897946.20 1897946.33 0.2636 0.1556 *

Mars 485-04-02 17:31 J 1898296.17 1898296.23 1898296.30 0.1723 0.1564

Mars 486-02-11 10:47 J 1898610.84 1898610.95 1898611.07 0.1790 0.0320

Venus 487-07-20 13:55 J 1899134.97 1899135.08 1899135.18 0.3679 0.0429

Moon 487-10-20 01:12 J 1899226.45 1899226.55 1899226.64 0.2690 0.1424

Earth 487-10-20 00:57 J 1899226.45 1899226.54 1899226.63 0.2697 0.1476 *

Jupiter 487-11-25 08:09 J 1899262.66 1899262.84 1899263.02 0.0493 0.0035

Venus 493-02-02 06:00 J 1901158.66 1901158.75 1901158.84 0.3680 0.1793

Jupiter 493-07-29 15:50 J 1901336.03 1901336.16 1901336.28 0.0534 0.0158

Jupiter 493-10-26 22:47 J 1901425.38 1901425.45 1901425.53 0.0532 0.0433

Mars 495-07-04 20:24 J 1902041.24 1902041.35 1902041.47 0.1797 0.0275

Saturn	495-12-23 18:28 J	1902213.20	1902213.27	1902213.33	0.0289	0.0251	
Saturn	496-03-21 07:12 J	1902301.67	1902301.80	1902301.92	0.0290	0.0118	
Saturn	496-06-17 19:40 J	1902390.19	1902390.32	1902390.46	0.0291	0.0018	
Mars	496-07-30 23:16 J	1902433.37	1902433.47	1902433.57	0.1745	0.1381	
Saturn	496-09-14 08:09 J	1902478.73	1902478.84	1902478.96	0.0291	0.0149	
Saturn	496-12-11 20:38 J	1902567.33	1902567.36	1902567.39	0.0292	0.0281	
Moon	497-04-20 23:45 J	1902697.35	1902697.49	1902697.63	0.2640	0.1315	
Earth	497-04-21 00:43 J	1902697.39	1902697.53	1902697.67	0.2634	0.1357	*
Venus	498-08-18 22:04 J	1903182.37	1903182.42	1903182.47	0.3681	0.3153	
Jupiter	499-09-13 06:28 J	1903572.60	1903572.77	1903572.95	0.0493	0.0131	
Moon	500-10-21 18:14 J	1903977.15	1903977.26	1903977.37	0.2691	0.0176	
Earth	500-10-21 18:28 J	1903977.16	1903977.27	1903977.38	0.2698	0.0099	*
Mars	504-11-24 05:45 J	1905471.64	1905471.74	1905471.84	0.1804	0.0883	
Jupiter	505-05-17 19:26 J	1905646.21	1905646.31	1905646.42	0.0534	0.0306	
Jupiter	505-08-15 02:52 J	1905735.52	1905735.62	1905735.73	0.0533	0.0290	
Mars	505-12-20 21:21 J	1905863.23	1905863.39	1905863.55	0.1738	0.0399	
Mars	506-10-30 15:07 J	1906177.07	1906177.13	1906177.19	0.1776	0.1496	
Uranus	508-10-01 00:57 J	1906878.48	1906878.54	1906878.60	0.0135	0.0118	
Uranus	508-12-28 03:50 J	1906966.58	1906966.66	1906966.76	0.0135	0.0101	
Uranus	509-03-26 07:12 J	1907054.70	1907054.80	1907054.91	0.0135	0.0083	
Uranus	509-06-22 10:19 J	1907142.82	1907142.93	1907143.05	0.0135	0.0065	
Uranus	509-09-18 13:26 J	1907230.94	1907231.06	1907231.19	0.0136	0.0048	
Saturn	509-10-20 08:52 J	1907262.81	1907262.87	1907262.94	0.0271	0.0250	
Uranus	509-12-15 16:33 J	1907319.06	1907319.19	1907319.32	0.0136	0.0030	
Saturn	510-01-17 04:33 J	1907351.53	1907351.69	1907351.86	0.0271	0.0106	
Uranus	510-03-13 19:40 J	1907407.19	1907407.32	1907407.46	0.0136	0.0013	
Saturn	510-04-16 00:28 J	1907440.35	1907440.52	1907440.70	0.0270	0.0040	
Uranus	510-06-09 22:47 J	1907495.32	1907495.45	1907495.59	0.0136	0.0007	
Saturn	510-07-13 20:38 J	1907529.23	1907529.36	1907529.50	0.0269	0.0185	
Uranus	510-09-06 01:55 J	1907583.45	1907583.58	1907583.71	0.0136	0.0024	

Uranus	510-12-03 05:02 J	1907671.59	1907671.71	1907671.84	0.0136	0.0041
Uranus	511-03-01 08:09 J	1907759.72	1907759.84	1907759.96	0.0136	0.0059
Uranus	511-05-28 11:16 J	1907847.86	1907847.97	1907848.08	0.0136	0.0076
Jupiter	511-07-02 05:16 J	1907882.57	1907882.72	1907882.86	0.0493	0.0291
Uranus	511-08-24 14:09 J	1907936.01	1907936.09	1907936.19	0.0136	0.0095
Jupiter	511-09-30 11:45 J	1907972.88	1907972.99	1907973.10	0.0494	0.0396
Uranus	511-11-20 17:31 J	1908024.16	1908024.23	1908024.30	0.0136	0.0112
Uranus	512-02-16 20:24 J	1908112.32	1908112.35	1908112.40	0.0136	0.0130
Moon	513-10-24 11:16 J	1908727.87	1908727.97	1908728.07	0.2697	0.1228
Earth	513-10-24 12:00 J	1908727.90	1908728.00	1908728.09	0.2699	0.1267 *
Mars	514-04-16 15:07 J	1908902.07	1908902.13	1908902.19	0.1811	0.1501
Mars	515-05-12 19:40 J	1909293.16	1909293.32	1909293.48	0.1730	0.0550
Mars	516-03-22 00:57 J	1909607.45	1909607.54	1909607.64	0.1783	0.0946
Jupiter	517-03-05 22:47 J	1909956.39	1909956.45	1909956.51	0.0535	0.0464
Jupiter	517-06-03 06:28 J	1910045.65	1910045.77	1910045.89	0.0533	0.0137
Earth	520-10-17 12:00 J	1911277.97	1911278.00	1911278.03	0.2695	0.2577
Moon	520-10-17 12:43 J	1911277.99	1911278.03	1911278.07	0.2693	0.2501 *
Jupiter	523-04-20 03:35 J	1912192.59	1912192.65	1912192.73	0.0492	0.0453
Venus	523-07-13 14:24 J	1912277.01	1912277.10	1912277.20	0.3693	0.2769
Jupiter	523-07-19 09:50 J	1912282.74	1912282.91	1912283.07	0.0494	0.0225
Mars	524-10-01 18:28 J	1912723.18	1912723.27	1912723.35	0.1723	0.1468
Saturn	525-08-08 08:52 J	1913033.76	1913033.87	1913033.98	0.0290	0.0159
Mars	525-08-12 10:47 J	1913037.84	1913037.95	1913038.06	0.1790	0.0371
Saturn	525-11-04 21:35 J	1913122.26	1913122.40	1913122.53	0.0291	0.0026
Saturn	526-02-01 10:04 J	1913210.80	1913210.92	1913211.04	0.0291	0.0109
Saturn	526-04-30 22:33 J	1913299.37	1913299.44	1913299.51	0.0292	0.0241
Moon	526-10-27 04:47 J	1913478.66	1913478.70	1913478.74	0.2703	0.2484
Earth	526-10-27 05:16 J	1913478.70	1913478.72	1913478.75	0.2701	0.2630 *
Venus	527-07-12 10:19 J	1913736.89	1913736.93	1913736.96	0.3677	0.3429
Venus	529-01-26 20:09 J	1914301.19	1914301.34	1914301.48	0.3692	0.0792

Jupiter	529-03-22 10:19 J	1914355.81	1914355.93	1914356.06	0.0534	0.0019	
Moon	530-04-18 22:04 J	1914748.28	1914748.42	1914748.56	0.2638	0.1206	
Earth	530-04-18 23:31 J	1914748.34	1914748.48	1914748.63	0.2635	0.0991	*
Venus	533-01-25 02:52 J	1915760.53	1915760.62	1915760.71	0.3678	0.1963	
Earth	533-10-20 05:45 J	1916028.64	1916028.74	1916028.83	0.2697	0.1191	
Moon	533-10-20 05:45 J	1916028.65	1916028.74	1916028.84	0.2690	0.1167	*
Mars	535-01-02 20:24 J	1916468.24	1916468.35	1916468.47	0.1797	0.0216	
Jupiter	535-05-07 06:43 J	1916592.60	1916592.78	1916592.97	0.0493	0.0045	
Mars	536-01-30 00:14 J	1916860.42	1916860.51	1916860.60	0.1745	0.1484	
Venus	538-08-10 19:12 J	1917784.20	1917784.30	1917784.41	0.3678	0.0529	
Saturn	539-06-06 04:47 J	1918083.55	1918083.70	1918083.86	0.0271	0.0142	
Saturn	539-09-03 00:43 J	1918172.35	1918172.53	1918172.72	0.0270	0.0008	
Saturn	539-11-30 20:52 J	1918261.22	1918261.37	1918261.52	0.0270	0.0149	
Jupiter	541-01-08 14:24 J	1918665.98	1918666.10	1918666.23	0.0535	0.0154	
Jupiter	541-04-07 21:35 J	1918755.33	1918755.40	1918755.47	0.0533	0.0438	
Moon	543-04-22 06:43 J	1919499.66	1919499.78	1919499.89	0.2640	0.1805	
Earth	543-04-22 07:26 J	1919499.70	1919499.81	1919499.92	0.2634	0.1922	*
Venus	544-02-24 11:31 J	1919807.88	1919807.98	1919808.08	0.3680	0.0877	
Mars	544-05-25 06:00 J	1919898.64	1919898.75	1919898.85	0.1804	0.0816	
Mars	545-06-20 22:04 J	1920290.26	1920290.42	1920290.58	0.1738	0.0493	
Pluto	545-07-18 22:47 J	1920318.40	1920318.45	1920318.54	0.0073	0.0067	
Pluto	545-10-15 00:57 J	1920406.43	1920406.54	1920406.67	0.0072	0.0055	
Pluto	546-01-11 02:38 J	1920494.49	1920494.61	1920494.77	0.0072	0.0043	
Pluto	546-04-09 04:47 J	1920582.55	1920582.70	1920582.86	0.0072	0.0031	
Mars	546-04-30 15:07 J	1920604.08	1920604.13	1920604.18	0.1776	0.1557	
Pluto	546-07-06 06:43 J	1920670.61	1920670.78	1920670.95	0.0072	0.0020	
Pluto	546-10-02 08:24 J	1920758.68	1920758.85	1920759.03	0.0072	0.0009	
Moon	546-10-22 22:47 J	1920779.35	1920779.45	1920779.56	0.2693	0.0199	
Earth	546-10-22 23:16 J	1920779.36	1920779.47	1920779.58	0.2698	0.0187	*
Pluto	546-12-29 10:19 J	1920846.76	1920846.93	1920847.11	0.0072	0.0003	

Jupiter	547-02-23 05:16 J	1920902.54	1920902.72	1920902.89	0.0493	0.0122
Pluto	547-03-27 12:00 J	1920934.83	1920935.00	1920935.18	0.0072	0.0014
Pluto	547-06-23 13:40 J	1921022.92	1921023.07	1921023.25	0.0072	0.0025
Pluto	547-09-19 15:21 J	1921111.00	1921111.14	1921111.31	0.0071	0.0036
Pluto	547-12-16 17:02 J	1921199.10	1921199.21	1921199.36	0.0071	0.0047
Pluto	548-03-13 19:12 J	1921287.20	1921287.30	1921287.41	0.0071	0.0057
Pluto	548-06-09 20:38 J	1921375.32	1921375.36	1921375.43	0.0071	0.0067
Uranus	549-04-25 20:24 J	1921695.29	1921695.35	1921695.43	0.0143	0.0132
Uranus	549-07-23 04:33 J	1921783.56	1921783.69	1921783.83	0.0143	0.0102
Venus	549-09-09 03:35 J	1921831.57	1921831.65	1921831.73	0.3681	0.2252
Uranus	549-10-19 12:43 J	1921871.87	1921872.03	1921872.20	0.0143	0.0072
Uranus	550-01-15 20:38 J	1921960.19	1921960.36	1921960.55	0.0143	0.0043
Uranus	550-04-14 05:02 J	1922048.52	1922048.71	1922048.90	0.0143	0.0012
Uranus	550-07-11 13:12 J	1922136.86	1922137.05	1922137.24	0.0143	0.0018
Uranus	550-10-07 21:21 J	1922225.21	1922225.39	1922225.57	0.0142	0.0048
Uranus	551-01-04 05:16 J	1922313.57	1922313.72	1922313.90	0.0142	0.0079
Uranus	551-04-02 13:40 J	1922401.96	1922402.07	1922402.20	0.0142	0.0108
Uranus	551-06-29 21:50 J	1922490.38	1922490.41	1922490.46	0.0142	0.0139
Jupiter	552-10-27 18:28 J	1922976.17	1922976.27	1922976.38	0.0535	0.0297
Jupiter	553-01-25 01:55 J	1923065.48	1923065.58	1923065.69	0.0533	0.0300
Mars	553-10-15 15:07 J	1923329.06	1923329.13	1923329.20	0.1811	0.1441
Mars	554-11-10 20:09 J	1923720.18	1923720.34	1923720.50	0.1731	0.0465
Saturn	554-12-26 09:21 J	1923765.80	1923765.89	1923765.99	0.0289	0.0210
Saturn	555-03-24 22:04 J	1923854.29	1923854.42	1923854.55	0.0290	0.0077
Venus	555-03-25 19:40 J	1923855.30	1923855.32	1923855.34	0.3682	0.3601
Saturn	555-06-21 10:47 J	1923942.82	1923942.95	1923943.08	0.0291	0.0057
Saturn	555-09-17 23:02 J	1924031.37	1924031.46	1924031.57	0.0291	0.0190
Mars	555-09-21 00:57 J	1924034.45	1924034.54	1924034.64	0.1783	0.1005
Neptune	556-03-11 00:28 J	1924206.50	1924206.52	1924206.58	0.0089	0.0086
Neptune	556-06-07 02:24 J	1924294.54	1924294.60	1924294.67	0.0089	0.0078

Neptune 556-09-03 03:50 J 1924382.58 1924382.66 1924382.75 0.0089 0.0070

Neptune 556-11-30 05:16 J 1924470.63 1924470.72 1924470.82 0.0089 0.0063

Neptune 557-02-26 06:43 J 1924558.68 1924558.78 1924558.89 0.0089 0.0056

Neptune 557-05-25 08:24 J 1924646.73 1924646.85 1924646.96 0.0089 0.0049

Neptune 557-08-21 09:35 J 1924734.79 1924734.90 1924735.03 0.0089 0.0042

Neptune 557-11-17 11:02 J 1924822.84 1924822.96 1924823.10 0.0089 0.0035

Neptune 558-02-13 12:43 J 1924910.90 1924911.03 1924911.16 0.0089 0.0027

Neptune 558-05-12 14:09 J 1924998.96 1924999.09 1924999.22 0.0089 0.0020

Neptune 558-08-08 15:35 J 1925087.02 1925087.15 1925087.29 0.0089 0.0013

Neptune 558-11-04 17:02 J 1925175.08 1925175.21 1925175.35 0.0089 0.0006

Jupiter 558-12-12 03:35 J 1925212.51 1925212.65 1925212.80 0.0493 0.0285

Neptune 559-01-31 18:28 J 1925263.14 1925263.27 1925263.41 0.0089 0.0002

Jupiter 559-03-12 10:04 J 1925302.82 1925302.92 1925303.03 0.0494 0.0400

Neptune 559-04-29 19:55 J 1925351.20 1925351.33 1925351.47 0.0089 0.0009

Neptune 559-07-26 21:21 J 1925439.26 1925439.39 1925439.52 0.0089 0.0016

Neptune 559-10-22 22:47 J 1925527.32 1925527.45 1925527.58 0.0089 0.0023

Moon 559-10-25 16:04 J 1925530.08 1925530.17 1925530.26 0.2697 0.1396

Earth 559-10-25 16:47 J 1925530.11 1925530.20 1925530.28 0.2700 0.1554 *

Neptune 560-01-19 00:00 J 1925615.38 1925615.50 1925615.64 0.0089 0.0031

Neptune 560-04-16 01:26 J 1925703.45 1925703.56 1925703.69 0.0089 0.0037

Neptune 560-07-13 02:52 J 1925791.51 1925791.62 1925791.74 0.0089 0.0044

Neptune 560-10-09 04:19 J 1925879.58 1925879.68 1925879.80 0.0089 0.0051

Neptune 561-01-05 05:31 J 1925967.64 1925967.73 1925967.85 0.0089 0.0059

Neptune 561-04-03 06:57 J 1926055.71 1926055.79 1926055.89 0.0089 0.0066

Neptune 561-06-30 08:24 J 1926143.79 1926143.85 1926143.94 0.0089 0.0073

Neptune 561-09-26 09:50 J 1926231.86 1926231.91 1926231.98 0.0089 0.0079

Neptune 561-12-23 11:02 J 1926319.95 1926319.96 1926320.01 0.0089 0.0087

Mars 564-04-01 19:12 J 1927150.20 1927150.30 1927150.40 0.1723 0.1372

Jupiter 564-08-15 22:19 J 1927286.36 1927286.43 1927286.50 0.0535 0.0445

Jupiter 564-11-13 06:00 J 1927375.63 1927375.75 1927375.88 0.0533 0.0157

Mars	565-02-10 10:47 J	1927464.84	1927464.95	1927465.06	0.1790	0.0431
Earth	566-10-18 16:47 J	1928080.15	1928080.20	1928080.26	0.2695	0.2296
Moon	566-10-18 17:16 J	1928080.16	1928080.22	1928080.29	0.2691	0.2176 *
Saturn	568-10-23 01:55 J	1928815.47	1928815.58	1928815.70	0.0271	0.0202
Saturn	569-01-19 21:50 J	1928904.23	1928904.41	1928904.59	0.0271	0.0058
Saturn	569-04-18 17:45 J	1928993.07	1928993.24	1928993.42	0.0270	0.0088
Saturn	569-07-16 14:09 J	1929082.00	1929082.09	1929082.18	0.0269	0.0235
Jupiter	570-09-30 02:24 J	1929522.53	1929522.60	1929522.68	0.0492	0.0444
Jupiter	570-12-29 08:24 J	1929612.69	1929612.85	1929613.01	0.0494	0.0234
Mars	574-07-03 20:24 J	1930895.24	1930895.35	1930895.47	0.1797	0.0157
Mars	575-07-31 01:12 J	1931287.48	1931287.55	1931287.61	0.1745	0.1589
Moon	576-04-19 05:02 J	1931550.55	1931550.71	1931550.86	0.2639	0.0543
Earth	576-04-19 06:14 J	1931550.61	1931550.76	1931550.92	0.2635	0.0431 *
Jupiter	576-09-01 09:35 J	1931685.77	1931685.90	1931686.03	0.0534	0.0004
Moon	579-10-21 10:33 J	1932830.84	1932830.94	1932831.04	0.2690	0.0905
Earth	579-10-21 10:33 J	1932830.84	1932830.94	1932831.04	0.2697	0.0911 *
Venus	580-02-17 15:35 J	1932950.02	1932950.15	1932950.28	0.3692	0.1676
Jupiter	582-10-17 06:43 J	1933922.60	1933922.78	1933922.96	0.0493	0.0067
Mars	583-11-24 05:45 J	1934325.64	1934325.74	1934325.85	0.1804	0.0763
Venus	584-02-16 08:09 J	1934409.77	1934409.84	1934409.90	0.3677	0.2937
Saturn	584-05-14 10:47 J	1934497.89	1934497.95	1934498.02	0.0289	0.0253
Saturn	584-08-10 23:45 J	1934586.37	1934586.49	1934586.61	0.0290	0.0119
Saturn	584-11-07 12:14 J	1934674.88	1934675.01	1934675.15	0.0291	0.0017
Mars	584-12-19 22:47 J	1934717.29	1934717.45	1934717.61	0.1738	0.0591
Saturn	585-02-04 00:43 J	1934763.42	1934763.53	1934763.65	0.0291	0.0147
Saturn	585-05-03 13:12 J	1934852.02	1934852.05	1934852.09	0.0292	0.0279
Venus	585-09-02 21:21 J	1934974.27	1934974.39	1934974.52	0.3691	0.1950
Mars	585-10-29 15:07 J	1935031.08	1935031.13	1935031.17	0.1776	0.1611
Jupiter	588-06-20 13:26 J	1935995.94	1935996.06	1935996.18	0.0534	0.0144
Jupiter	588-09-17 20:24 J	1936085.29	1936085.35	1936085.42	0.0532	0.0446

Moon	589-04-22 13:26 J	1936302.00	1936302.06	1936302.12	0.2640	0.2441	
Earth	589-04-22 14:09 J	1936302.04	1936302.09	1936302.14	0.2634	0.2501	*
Venus	589-09-01 00:28 J	1936433.43	1936433.52	1936433.62	0.3678	0.1479	
Uranus	592-07-25 04:33 J	1937491.68	1937491.69	1937491.71	0.0135	0.0133	
Uranus	592-10-21 07:55 J	1937579.76	1937579.83	1937579.89	0.0135	0.0116	
Moon	592-10-23 03:35 J	1937581.54	1937581.65	1937581.76	0.2694	0.0397	
Earth	592-10-23 04:04 J	1937581.56	1937581.67	1937581.77	0.2698	0.0471	*
Uranus	593-01-17 10:47 J	1937667.87	1937667.95	1937668.05	0.0135	0.0098	
Uranus	593-04-15 13:55 J	1937755.98	1937756.08	1937756.19	0.0135	0.0081	
Mars	593-04-15 15:07 J	1937756.06	1937756.13	1937756.21	0.1811	0.1377	*
Uranus	593-07-12 17:16 J	1937844.10	1937844.22	1937844.34	0.0135	0.0062	
Uranus	593-10-08 20:24 J	1937932.22	1937932.35	1937932.47	0.0135	0.0045	
Uranus	594-01-04 23:31 J	1938020.35	1938020.48	1938020.61	0.0136	0.0027	
Uranus	594-04-03 02:38 J	1938108.48	1938108.61	1938108.74	0.0136	0.0009	
Mars	594-05-11 21:07 J	1938147.22	1938147.38	1938147.54	0.1731	0.0363	
Uranus	594-06-30 05:45 J	1938196.61	1938196.74	1938196.87	0.0136	0.0008	
Jupiter	594-08-05 04:04 J	1938232.49	1938232.67	1938232.85	0.0492	0.0111	
Uranus	594-09-26 08:52 J	1938284.74	1938284.87	1938285.00	0.0136	0.0026	
Uranus	594-12-23 12:00 J	1938372.87	1938373.00	1938373.12	0.0136	0.0044	
Venus	595-03-17 16:47 J	1938457.10	1938457.20	1938457.31	0.3679	0.0138	
Uranus	595-03-21 15:07 J	1938461.01	1938461.13	1938461.24	0.0136	0.0061	
Mars	595-03-22 00:57 J	1938461.45	1938461.54	1938461.63	0.1783	0.1058	
Uranus	595-06-17 18:00 J	1938549.15	1938549.25	1938549.36	0.0136	0.0079	
Uranus	595-09-13 21:07 J	1938637.30	1938637.38	1938637.48	0.0136	0.0097	
Uranus	595-12-11 00:14 J	1938725.45	1938725.51	1938725.58	0.0136	0.0115	
Uranus	596-03-08 03:07 J	1938813.61	1938813.63	1938813.67	0.0136	0.0133	
Saturn	598-03-12 01:55 J	1939547.51	1939547.58	1939547.67	0.0272	0.0240	
Saturn	598-06-08 21:50 J	1939636.24	1939636.41	1939636.58	0.0271	0.0095	
Saturn	598-09-05 17:45 J	1939725.06	1939725.24	1939725.42	0.0270	0.0051	
Saturn	598-12-03 13:55 J	1939813.96	1939814.08	1939814.21	0.0270	0.0197	

Jupiter	**600-04-08 17:16 J**	**1940306.11**	**1940306.22**	**1940306.33**	**0.0535**	**0.0293**	
Jupiter	**600-07-07 00:43 J**	**1940395.43**	**1940395.53**	**1940395.64**	**0.0534**	**0.0305**	
Venus	**600-09-30 09:07 J**	**1940480.78**	**1940480.88**	**1940480.98**	**0.3680**	**0.1339**	
Mars	**603-10-01 19:40 J**	**1941577.21**	**1941577.32**	**1941577.43**	**0.1723**	**0.1294**	
Mars	**604-08-11 10:47 J**	**1941891.84**	**1941891.95**	**1941892.06**	**0.1790**	**0.0492**	
Moon	**605-10-25 20:52 J**	**1942332.29**	**1942332.37**	**1942332.45**	**0.2698**	**0.1781**	
Earth	**605-10-25 21:35 J**	**1942332.32**	**1942332.40**	**1942332.47**	**0.2700**	**0.1834**	*
Venus	**606-04-16 01:12 J**	**1942504.48**	**1942504.55**	**1942504.62**	**0.3681**	**0.2709**	
Jupiter	**606-05-24 02:38 J**	**1942542.46**	**1942542.61**	**1942542.76**	**0.0492**	**0.0273**	
Jupiter	**606-08-22 08:52 J**	**1942632.77**	**1942632.87**	**1942632.97**	**0.0494**	**0.0411**	
Jupiter	**612-01-26 21:21 J**	**1944616.32**	**1944616.39**	**1944616.46**	**0.0535**	**0.0436**	
Jupiter	**612-04-25 05:02 J**	**1944705.59**	**1944705.71**	**1944705.83**	**0.0534**	**0.0167**	
Earth	**612-10-18 21:35 J**	**1944882.33**	**1944882.40**	**1944882.47**	**0.2696**	**0.2009**	
Moon	**612-10-18 22:04 J**	**1944882.35**	**1944882.42**	**1944882.49**	**0.2690**	**0.1997**	*
Saturn	**613-12-29 00:28 J**	**1945318.41**	**1945318.52**	**1945318.63**	**0.0289**	**0.0169**	
Mars	**614-01-01 20:24 J**	**1945322.24**	**1945322.35**	**1945322.47**	**0.1797**	**0.0104**	
Saturn	**614-03-27 13:12 J**	**1945406.92**	**1945407.05**	**1945407.18**	**0.0290**	**0.0036**	
Saturn	**614-06-24 01:40 J**	**1945495.45**	**1945495.57**	**1945495.70**	**0.0290**	**0.0096**	
Saturn	**614-09-20 13:55 J**	**1945584.01**	**1945584.08**	**1945584.17**	**0.0291**	**0.0229**	
Mars	**615-01-29 01:40 J**	**1945714.52**	**1945714.57**	**1945714.61**	**0.1745**	**0.1674**	
Jupiter	**618-03-12 00:57 J**	**1946852.47**	**1946852.54**	**1946852.63**	**0.0492**	**0.0435**	
Jupiter	**618-06-10 06:57 J**	**1946942.64**	**1946942.79**	**1946942.95**	**0.0493**	**0.0242**	
Moon	**622-04-20 12:00 J**	**1948352.84**	**1948353.00**	**1948353.16**	**0.2640**	**0.0100**	
Earth	**622-04-20 13:12 J**	**1948352.89**	**1948353.05**	**1948353.21**	**0.2635**	**0.0154**	*
Mars	**623-05-25 06:00 J**	**1948752.64**	**1948752.75**	**1948752.85**	**0.1804**	**0.0700**	
Jupiter	**624-02-12 09:07 J**	**1949015.75**	**1949015.88**	**1949016.01**	**0.0534**	**0.0026**	
Mars	**624-06-19 23:45 J**	**1949144.33**	**1949144.49**	**1949144.64**	**0.1738**	**0.0695**	
Mars	**625-04-29 15:07 J**	**1949458.09**	**1949458.13**	**1949458.16**	**0.1776**	**0.1670**	
Moon	**625-10-21 15:21 J**	**1949633.03**	**1949633.14**	**1949633.24**	**0.2690**	**0.0593**	
Earth	**625-10-21 15:21 J**	**1949633.03**	**1949633.14**	**1949633.24**	**0.2697**	**0.0629**	*

Saturn	627-10-26 18:28 J	1950368.13	1950368.27	1950368.42	0.0271	0.0158
Saturn	628-01-23 14:38 J	1950456.93	1950457.11	1950457.29	0.0271	0.0013
Saturn	628-04-21 10:47 J	1950545.79	1950545.95	1950546.10	0.0270	0.0134
Jupiter	630-03-29 05:31 J	1951252.55	1951252.73	1951252.91	0.0493	0.0077
Mars	632-10-14 15:07 J	1952183.05	1952183.13	1952183.21	0.1811	0.1320
Uranus	633-05-16 03:07 J	1952396.56	1952396.63	1952396.73	0.0143	0.0126
Uranus	633-08-12 11:31 J	1952484.84	1952484.98	1952485.12	0.0143	0.0096
Uranus	633-11-08 19:40 J	1952573.15	1952573.32	1952573.49	0.0143	0.0066
Mars	633-11-09 21:50 J	1952574.24	1952574.41	1952574.57	0.1731	0.0276
Uranus	634-02-05 03:35 J	1952661.47	1952661.65	1952661.84	0.0143	0.0037
Uranus	634-05-04 12:00 J	1952749.80	1952750.00	1952750.19	0.0143	0.0007
Uranus	634-07-31 19:55 J	1952838.15	1952838.33	1952838.53	0.0143	0.0024
Mars	634-09-20 00:57 J	1952888.45	1952888.54	1952888.63	0.1783	0.1116
Uranus	634-10-28 04:04 J	1952926.50	1952926.67	1952926.86	0.0142	0.0054
Uranus	635-01-24 12:28 J	1953014.86	1953015.02	1953015.18	0.0142	0.0084
Uranus	635-04-22 20:24 J	1953103.25	1953103.35	1953103.48	0.0142	0.0114
Jupiter	635-12-01 12:43 J	1953325.90	1953326.03	1953326.16	0.0534	0.0131
Jupiter	636-02-28 19:40 J	1953415.26	1953415.32	1953415.39	0.0532	0.0458
Venus	636-09-23 16:47 J	1953623.05	1953623.20	1953623.34	0.3692	0.0563
Moon	638-10-24 08:09 J	1954383.74	1954383.84	1954383.95	0.2694	0.0662
Earth	638-10-24 08:52 J	1954383.76	1954383.87	1954383.97	0.2698	0.0752 *
Neptune	638-11-25 14:52 J	1954416.09	1954416.12	1954416.17	0.0088	0.0085
Neptune	639-02-21 18:00 J	1954504.17	1954504.25	1954504.35	0.0088	0.0076
Neptune	639-05-20 21:07 J	1954592.27	1954592.38	1954592.51	0.0088	0.0067
Neptune	639-08-17 00:14 J	1954680.39	1954680.51	1954680.66	0.0088	0.0058
Neptune	639-11-13 03:21 J	1954768.50	1954768.64	1954768.81	0.0088	0.0049
Neptune	640-02-09 06:57 J	1954856.63	1954856.79	1954856.96	0.0088	0.0039
Neptune	640-05-07 10:04 J	1954944.75	1954944.92	1954945.10	0.0088	0.0030
Neptune	640-08-03 13:12 J	1955032.88	1955033.05	1955033.24	0.0088	0.0021
Venus	640-09-22 05:45 J	1955082.66	1955082.74	1955082.82	0.3677	0.2438

Neptune	**640-10-30 16:47 J**	**1955121.01**	**1955121.20**	**1955121.38**	**0.0088**	**0.0011**
Neptune	**641-01-26 19:55 J**	**1955209.14**	**1955209.33**	**1955209.52**	**0.0088**	**0.0002**
Neptune	**641-04-24 23:02 J**	**1955297.28**	**1955297.46**	**1955297.66**	**0.0088**	**0.0008**
Neptune	**641-07-22 02:24 J**	**1955385.42**	**1955385.60**	**1955385.79**	**0.0088**	**0.0017**
Neptune	**641-10-18 05:31 J**	**1955473.56**	**1955473.73**	**1955473.92**	**0.0088**	**0.0027**
Neptune	**642-01-14 08:52 J**	**1955561.71**	**1955561.87**	**1955562.05**	**0.0088**	**0.0036**
Jupiter	**642-01-15 03:50 J**	**1955562.48**	**1955562.66**	**1955562.84**	**0.0493**	**0.0089**
Venus	**642-04-09 22:47 J**	**1955647.38**	**1955647.45**	**1955647.53**	**0.3691**	**0.3127**
Neptune	**642-04-12 12:00 J**	**1955649.85**	**1955650.00**	**1955650.18**	**0.0088**	**0.0046**
Neptune	**642-07-09 15:35 J**	**1955738.01**	**1955738.15**	**1955738.30**	**0.0088**	**0.0055**
Neptune	**642-10-05 18:28 J**	**1955826.17**	**1955826.27**	**1955826.42**	**0.0088**	**0.0065**
Neptune	**643-01-01 22:04 J**	**1955914.33**	**1955914.42**	**1955914.53**	**0.0088**	**0.0074**
Neptune	**643-03-31 01:12 J**	**1956002.52**	**1956002.55**	**1956002.63**	**0.0088**	**0.0084**
Mars	**643-04-01 20:38 J**	**1956004.24**	**1956004.36**	**1956004.48**	**0.1724**	**0.1190**
Saturn	**643-05-18 01:40 J**	**1956050.48**	**1956050.57**	**1956050.66**	**0.0289**	**0.0214**
Saturn	**643-08-14 14:24 J**	**1956138.97**	**1956139.10**	**1956139.23**	**0.0290**	**0.0081**
Saturn	**643-11-11 03:07 J**	**1956227.50**	**1956227.63**	**1956227.76**	**0.0290**	**0.0052**
Saturn	**644-02-07 15:21 J**	**1956316.04**	**1956316.14**	**1956316.25**	**0.0291**	**0.0184**
Mars	**644-02-10 10:47 J**	**1956318.84**	**1956318.95**	**1956319.06**	**0.1790**	**0.0549**
Venus	**646-04-07 22:19 J**	**1957106.32**	**1957106.43**	**1957106.53**	**0.3678**	**0.0998**
Jupiter	**647-09-19 16:33 J**	**1957636.08**	**1957636.19**	**1957636.30**	**0.0535**	**0.0281**
Jupiter	**647-12-17 23:45 J**	**1957725.39**	**1957725.49**	**1957725.60**	**0.0533**	**0.0316**
Venus	**651-10-22 14:38 J**	**1959130.00**	**1959130.11**	**1959130.21**	**0.3679**	**0.0435**
Moon	**651-10-27 01:40 J**	**1959134.50**	**1959134.57**	**1959134.64**	**0.2700**	**0.1996**
Earth	**651-10-27 02:24 J**	**1959134.53**	**1959134.60**	**1959134.66**	**0.2700**	**0.2116 ***
Mars	**653-07-02 20:24 J**	**1959749.24**	**1959749.35**	**1959749.47**	**0.1797**	**0.0043**
Jupiter	**653-11-03 01:26 J**	**1959872.42**	**1959872.56**	**1959872.72**	**0.0492**	**0.0261**
Jupiter	**654-02-01 07:55 J**	**1959962.74**	**1959962.83**	**1959962.92**	**0.0493**	**0.0423**
Moon	**655-04-18 10:33 J**	**1960403.89**	**1960403.94**	**1960403.99**	**0.2638**	**0.2482**
Earth	**655-04-18 12:14 J**	**1960403.92**	**1960404.01**	**1960404.10**	**0.2637**	**0.2176 ***

Saturn	657-03-14 18:43 J	1961100.16	1961100.28	1961100.40	0.0272	0.0195
Venus	657-05-07 06:43 J	1961153.69	1961153.78	1961153.87	0.3680	0.1803
Saturn	657-06-11 14:38 J	1961188.93	1961189.11	1961189.28	0.0271	0.0050
Saturn	657-09-08 10:33 J	1961277.78	1961277.94	1961278.11	0.0271	0.0097
Saturn	657-12-06 06:43 J	1961366.72	1961366.78	1961366.87	0.0270	0.0244
Earth	658-10-20 02:24 J	1961684.52	1961684.60	1961684.69	0.2696	0.1724
Moon	658-10-20 02:52 J	1961684.53	1961684.62	1961684.71	0.2690	0.1596 *
Jupiter	659-07-08 20:09 J	1961946.26	1961946.34	1961946.41	0.0536	0.0433
Jupiter	659-10-06 03:50 J	1962035.54	1962035.66	1962035.78	0.0534	0.0171
Venus	662-11-20 22:47 J	1963177.40	1963177.45	1963177.50	0.3681	0.3161
Mars	662-11-23 06:00 J	1963179.64	1963179.75	1963179.86	0.1804	0.0635
Mars	663-12-20 00:14 J	1963571.36	1963571.51	1963571.66	0.1738	0.0778
Mars	664-10-28 15:07 J	1963885.10	1963885.13	1963885.15	0.1776	0.1726
Jupiter	665-08-22 00:14 J	1964182.42	1964182.51	1964182.60	0.0492	0.0421
Jupiter	665-11-20 06:00 J	1964272.60	1964272.75	1964272.91	0.0493	0.0254
Moon	668-04-20 18:43 J	1965155.12	1965155.28	1965155.43	0.2640	0.0675
Earth	668-04-20 19:55 J	1965155.18	1965155.33	1965155.49	0.2635	0.0720 *
Jupiter	671-07-25 08:09 J	1966345.71	1966345.84	1966345.97	0.0534	0.0031
Moon	671-10-22 19:55 J	1966435.22	1966435.33	1966435.44	0.2691	0.0405
Earth	671-10-22 20:09 J	1966435.23	1966435.34	1966435.44	0.2697	0.0349 *
Mars	672-04-14 15:07 J	1966610.05	1966610.13	1966610.22	0.1811	0.1257
Saturn	672-10-04 02:52 J	1966782.57	1966782.62	1966782.68	0.0288	0.0260
Saturn	672-12-31 15:35 J	1966871.03	1966871.15	1966871.27	0.0289	0.0127
Saturn	673-03-30 04:19 J	1966959.54	1966959.68	1966959.81	0.0289	0.0009
Mars	673-05-10 22:19 J	1967001.27	1967001.43	1967001.60	0.1731	0.0185
Saturn	673-06-26 16:47 J	1967048.08	1967048.20	1967048.31	0.0290	0.0137
Saturn	673-09-23 05:02 J	1967136.66	1967136.71	1967136.76	0.0291	0.0267
Mars	674-03-21 00:57 J	1967315.46	1967315.54	1967315.63	0.1783	0.1179
Uranus	676-08-14 11:16 J	1968192.95	1968192.97	1968193.01	0.0135	0.0131
Uranus	676-11-10 14:24 J	1968281.04	1968281.10	1968281.18	0.0135	0.0113

Uranus	677-02-06 17:45 J	1968369.15	1968369.24	1968369.33	0.0135	0.0095
Uranus	677-05-05 20:52 J	1968457.26	1968457.37	1968457.48	0.0135	0.0078
Uranus	677-08-02 00:00 J	1968545.38	1968545.50	1968545.62	0.0135	0.0060
Jupiter	677-09-08 04:04 J	1968582.49	1968582.67	1968582.85	0.0493	0.0086
Uranus	677-10-29 03:07 J	1968633.51	1968633.63	1968633.76	0.0135	0.0042
Uranus	678-01-25 06:14 J	1968721.63	1968721.76	1968721.89	0.0136	0.0025
Uranus	678-04-23 09:21 J	1968809.76	1968809.89	1968810.02	0.0136	0.0007
Uranus	678-07-20 12:28 J	1968897.89	1968898.02	1968898.15	0.0136	0.0011
Uranus	678-10-16 15:35 J	1968986.02	1968986.15	1968986.28	0.0136	0.0028
Uranus	679-01-12 18:43 J	1969074.16	1969074.28	1969074.41	0.0136	0.0046
Uranus	679-04-10 21:50 J	1969162.29	1969162.41	1969162.53	0.0136	0.0064
Uranus	679-07-08 00:57 J	1969250.44	1969250.54	1969250.64	0.0136	0.0081
Uranus	679-10-04 03:50 J	1969338.58	1969338.66	1969338.76	0.0136	0.0099
Uranus	679-12-31 06:57 J	1969426.73	1969426.79	1969426.86	0.0136	0.0117
Uranus	680-03-28 10:04 J	1969514.91	1969514.92	1969514.94	0.0136	0.0135
Mars	682-09-30 21:21 J	1970431.26	1970431.39	1970431.51	0.1724	0.1098
Jupiter	683-05-13 12:14 J	1970655.88	1970656.01	1970656.13	0.0534	0.0113
Jupiter	683-08-10 19:12 J	1970745.25	1970745.30	1970745.36	0.0533	0.0476
Mars	683-08-11 10:47 J	1970745.84	1970745.95	1970746.06	0.1790	0.0608
Moon	684-10-24 12:57 J	1971185.94	1971186.04	1971186.14	0.2694	0.0971
Earth	684-10-24 13:40 J	1971185.97	1971186.07	1971186.17	0.2698	0.1033 *
Saturn	686-08-01 15:21 J	1971832.09	1971832.14	1971832.20	0.0272	0.0257
Saturn	686-10-29 11:16 J	1971920.81	1971920.97	1971921.13	0.0271	0.0113
Saturn	687-01-26 07:12 J	1972009.63	1972009.80	1972009.98	0.0271	0.0034
Saturn	687-04-25 03:21 J	1972098.51	1972098.64	1972098.78	0.0270	0.0181
Venus	687-10-15 12:28 J	1972271.94	1972272.02	1972272.11	0.3693	0.2950
Jupiter	689-06-27 02:38 J	1972892.43	1972892.61	1972892.79	0.0493	0.0078
Venus	691-10-14 11:02 J	1973731.92	1973731.96	1973731.99	0.3676	0.3410
Moon	691-10-18 14:09 J	1973736.09	1973736.09	1973736.10	0.2692	0.2689
Mars	692-12-31 20:24 J	1974176.24	1974176.35	1974176.47	0.1797	0.0047

Venus	**693-04-30 18:00 J**	**1974296.11**	**1974296.25**	**1974296.40**	**0.3692**	**0.0576**
Jupiter	**695-03-01 15:35 J**	**1974966.04**	**1974966.15**	**1974966.26**	**0.0535**	**0.0268**
Jupiter	**695-05-29 23:02 J**	**1975055.36**	**1975055.46**	**1975055.56**	**0.0533**	**0.0327**
Venus	**697-04-29 03:35 J**	**1975755.56**	**1975755.65**	**1975755.74**	**0.3678**	**0.1949**
Moon	**697-10-27 06:28 J**	**1975936.71**	**1975936.77**	**1975936.82**	**0.2702**	**0.2300**
Earth	**697-10-27 07:12 J**	**1975936.75**	**1975936.80**	**1975936.84**	**0.2700**	**0.2394** *
Jupiter	**701-04-15 01:12 J**	**1977202.39**	**1977202.55**	**1977202.70**	**0.0492**	**0.0241**
Moon	**701-04-18 17:16 J**	**1977206.11**	**1977206.22**	**1977206.34**	**0.2639**	**0.1723**
Earth	**701-04-18 18:57 J**	**1977206.17**	**1977206.29**	**1977206.42**	**0.2636**	**0.1612** *
Jupiter	**701-07-14 07:26 J**	**1977292.74**	**1977292.81**	**1977292.89**	**0.0494**	**0.0445**
Saturn	**702-05-20 16:47 J**	**1977603.10**	**1977603.20**	**1977603.32**	**0.0289**	**0.0172**
Mars	**702-05-24 05:45 J**	**1977606.63**	**1977606.74**	**1977606.85**	**0.1804**	**0.0583**
Saturn	**702-08-17 05:31 J**	**1977691.60**	**1977691.73**	**1977691.87**	**0.0290**	**0.0040**
Venus	**702-11-12 19:55 J**	**1977779.23**	**1977779.33**	**1977779.44**	**0.3679**	**0.0515**
Saturn	**702-11-13 18:00 J**	**1977780.13**	**1977780.25**	**1977780.38**	**0.0290**	**0.0093**
Saturn	**703-02-10 06:28 J**	**1977868.69**	**1977868.77**	**1977868.86**	**0.0291**	**0.0224**
Mars	**703-06-20 00:57 J**	**1977998.40**	**1977998.54**	**1977998.69**	**0.1738**	**0.0885**
Earth	**704-10-20 07:12 J**	**1978486.71**	**1978486.80**	**1978486.90**	**0.2696**	**0.1440**
Moon	**704-10-20 07:40 J**	**1978486.73**	**1978486.82**	**1978486.91**	**0.2690**	**0.1441** *
Jupiter	**706-12-18 19:12 J**	**1979276.23**	**1979276.30**	**1979276.38**	**0.0535**	**0.0420**
Jupiter	**707-03-18 02:52 J**	**1979365.50**	**1979365.62**	**1979365.74**	**0.0534**	**0.0183**
Pluto	**707-06-28 12:57 J**	**1979468.00**	**1979468.04**	**1979468.09**	**0.0071**	**0.0067**
Pluto	**707-09-24 13:55 J**	**1979556.01**	**1979556.08**	**1979556.16**	**0.0071**	**0.0059**
Pluto	**707-12-21 14:52 J**	**1979644.02**	**1979644.12**	**1979644.22**	**0.0072**	**0.0050**
Pluto	**708-03-18 15:50 J**	**1979732.05**	**1979732.16**	**1979732.28**	**0.0072**	**0.0041**
Venus	**708-05-28 12:14 J**	**1979802.91**	**1979803.01**	**1979803.11**	**0.3680**	**0.0886**
Pluto	**708-06-14 16:33 J**	**1979820.07**	**1979820.19**	**1979820.33**	**0.0072**	**0.0033**
Pluto	**708-09-10 17:31 J**	**1979908.10**	**1979908.23**	**1979908.37**	**0.0072**	**0.0024**
Pluto	**708-12-07 18:43 J**	**1979996.14**	**1979996.28**	**1979996.42**	**0.0072**	**0.0015**
Pluto	**709-03-05 19:40 J**	**1980084.17**	**1980084.32**	**1980084.46**	**0.0072**	**0.0006**

Pluto	**709-06-01 20:38 J**	**1980172.21**	**1980172.36**	**1980172.50**	**0.0072**	**0.0004**
Pluto	**709-08-28 21:21 J**	**1980260.26**	**1980260.39**	**1980260.54**	**0.0072**	**0.0013**
Pluto	**709-11-24 22:19 J**	**1980348.30**	**1980348.43**	**1980348.57**	**0.0073**	**0.0023**
Pluto	**710-02-20 23:16 J**	**1980436.35**	**1980436.47**	**1980436.61**	**0.0073**	**0.0032**
Pluto	**710-05-20 00:28 J**	**1980524.40**	**1980524.52**	**1980524.64**	**0.0073**	**0.0041**
Pluto	**710-08-16 01:12 J**	**1980612.46**	**1980612.55**	**1980612.66**	**0.0073**	**0.0051**
Pluto	**710-11-12 02:24 J**	**1980700.52**	**1980700.60**	**1980700.68**	**0.0073**	**0.0061**
Pluto	**711-02-08 03:07 J**	**1980788.61**	**1980788.63**	**1980788.68**	**0.0073**	**0.0071**
Mars	**711-10-14 15:07 J**	**1981037.05**	**1981037.13**	**1981037.22**	**0.1811**	**0.1196**
Mars	**712-11-08 23:16 J**	**1981428.30**	**1981428.47**	**1981428.63**	**0.1731**	**0.0088**
Jupiter	**713-01-31 23:02 J**	**1981512.37**	**1981512.46**	**1981512.57**	**0.0492**	**0.0409**
Jupiter	**713-05-02 04:47 J**	**1981602.55**	**1981602.70**	**1981602.86**	**0.0493**	**0.0267**
Mars	**713-09-19 00:57 J**	**1981742.46**	**1981742.54**	**1981742.62**	**0.1783**	**0.1231**
Venus	**713-12-12 04:19 J**	**1981826.60**	**1981826.68**	**1981826.76**	**0.3681**	**0.2258**
Moon	**714-04-22 01:26 J**	**1981957.42**	**1981957.56**	**1981957.71**	**0.2640**	**0.1053**
Earth	**714-04-22 02:38 J**	**1981957.47**	**1981957.61**	**1981957.75**	**0.2635**	**0.1288** *
Saturn	**716-03-17 11:16 J**	**1982652.82**	**1982652.97**	**1982653.12**	**0.0272**	**0.0151**
Saturn	**716-06-14 07:12 J**	**1982741.62**	**1982741.80**	**1982741.98**	**0.0271**	**0.0008**
Saturn	**716-09-11 03:21 J**	**1982830.49**	**1982830.64**	**1982830.80**	**0.0271**	**0.0142**
Uranus	**717-06-05 09:35 J**	**1983097.81**	**1983097.90**	**1983098.01**	**0.0143**	**0.0122**
Uranus	**717-09-01 17:31 J**	**1983186.10**	**1983186.23**	**1983186.39**	**0.0143**	**0.0093**
Moon	**717-10-23 00:28 J**	**1983237.41**	**1983237.52**	**1983237.63**	**0.2691**	**0.0092**
Earth	**717-10-23 00:57 J**	**1983237.43**	**1983237.54**	**1983237.64**	**0.2697**	**0.0112** *
Uranus	**717-11-29 01:40 J**	**1983274.41**	**1983274.57**	**1983274.75**	**0.0143**	**0.0063**
Uranus	**718-02-25 10:04 J**	**1983362.73**	**1983362.92**	**1983363.10**	**0.0143**	**0.0033**
Uranus	**718-05-24 18:14 J**	**1983451.06**	**1983451.26**	**1983451.45**	**0.0143**	**0.0004**
Uranus	**718-08-21 02:09 J**	**1983539.41**	**1983539.59**	**1983539.78**	**0.0143**	**0.0028**
Uranus	**718-11-17 10:19 J**	**1983627.76**	**1983627.93**	**1983628.11**	**0.0142**	**0.0057**
Jupiter	**719-01-04 06:43 J**	**1983675.65**	**1983675.78**	**1983675.91**	**0.0535**	**0.0034**
Uranus	**719-02-13 18:28 J**	**1983716.13**	**1983716.27**	**1983716.43**	**0.0142**	**0.0088**

Uranus	719-05-13 02:38 J	1983804.51	1983804.61	1983804.73	0.0142	0.0118
Venus	719-06-27 20:24 J	1983850.33	1983850.35	1983850.37	0.3682	0.3595
Neptune	720-09-08 23:16 J	1984289.46	1984289.47	1984289.49	0.0089	0.0089
Neptune	720-12-06 00:43 J	1984377.49	1984377.53	1984377.60	0.0089	0.0081
Neptune	721-03-04 02:09 J	1984465.53	1984465.59	1984465.68	0.0089	0.0074
Neptune	721-05-31 03:50 J	1984553.58	1984553.66	1984553.76	0.0089	0.0067
Neptune	721-08-27 05:16 J	1984641.63	1984641.72	1984641.83	0.0089	0.0060
Neptune	721-11-23 06:43 J	1984729.68	1984729.78	1984729.90	0.0089	0.0052
Neptune	722-02-19 08:24 J	1984817.73	1984817.85	1984817.97	0.0089	0.0045
Mars	722-03-31 21:50 J	1984858.27	1984858.41	1984858.54	0.1724	0.1014
Neptune	722-05-18 09:50 J	1984905.79	1984905.91	1984906.04	0.0089	0.0038
Neptune	722-08-14 11:16 J	1984993.84	1984993.97	1984994.10	0.0089	0.0030
Neptune	722-11-10 12:43 J	1985081.90	1985082.03	1985082.16	0.0089	0.0023
Neptune	723-02-06 14:09 J	1985169.96	1985170.09	1985170.23	0.0089	0.0016
Mars	723-02-09 10:47 J	1985172.84	1985172.95	1985173.06	0.1790	0.0672
Neptune	723-05-05 15:35 J	1985258.02	1985258.15	1985258.29	0.0089	0.0009
Neptune	723-08-01 17:02 J	1985346.08	1985346.21	1985346.35	0.0089	0.0003
Neptune	723-10-28 18:28 J	1985434.14	1985434.27	1985434.41	0.0089	0.0006
Neptune	724-01-24 19:55 J	1985522.20	1985522.33	1985522.47	0.0089	0.0013
Neptune	724-04-21 21:21 J	1985610.26	1985610.39	1985610.52	0.0089	0.0020
Neptune	724-07-18 22:47 J	1985698.32	1985698.45	1985698.58	0.0089	0.0027
Neptune	724-10-15 00:14 J	1985786.39	1985786.51	1985786.64	0.0089	0.0034
Neptune	725-01-11 01:40 J	1985874.45	1985874.57	1985874.69	0.0089	0.0041
Jupiter	725-02-18 03:07 J	1985912.45	1985912.63	1985912.81	0.0493	0.0099
Neptune	725-04-09 03:07 J	1985962.52	1985962.63	1985962.74	0.0089	0.0048
Neptune	725-07-06 04:33 J	1986050.58	1986050.69	1986050.79	0.0089	0.0055
Neptune	725-10-02 06:00 J	1986138.65	1986138.75	1986138.84	0.0089	0.0062
Neptune	725-12-29 06:57 J	1986226.72	1986226.79	1986226.89	0.0089	0.0070
Neptune	726-03-27 08:38 J	1986314.79	1986314.86	1986314.93	0.0089	0.0076
Neptune	726-06-23 10:04 J	1986402.87	1986402.92	1986402.97	0.0089	0.0083

Jupiter	730-10-23 10:47 J	1987985.83	1987985.95	1987986.08	0.0535	0.0110
Moon	730-10-25 17:45 J	1987988.14	1987988.24	1987988.34	0.2695	0.1192
Earth	730-10-25 18:28 J	1987988.17	1987988.27	1987988.36	0.2699	0.1320 *
Jupiter	731-01-20 18:14 J	1988075.20	1988075.26	1988075.31	0.0533	0.0482
Saturn	731-10-07 18:28 J	1988335.18	1988335.27	1988335.36	0.0288	0.0215
Saturn	732-01-04 06:57 J	1988423.67	1988423.79	1988423.92	0.0289	0.0084
Saturn	732-04-01 19:40 J	1988512.19	1988512.32	1988512.45	0.0289	0.0049
Saturn	732-06-29 07:55 J	1988600.73	1988600.83	1988600.94	0.0290	0.0180
Mars	732-07-01 20:24 J	1988603.24	1988603.35	1988603.47	0.1796	0.0087
Jupiter	736-12-07 01:12 J	1990222.37	1990222.55	1990222.73	0.0492	0.0070
Earth	737-10-18 18:28 J	1990538.24	1990538.27	1990538.30	0.2695	0.2540
Moon	737-10-18 18:57 J	1990538.26	1990538.29	1990538.33	0.2691	0.2482 *
Mars	741-11-22 06:00 J	1992033.63	1992033.75	1992033.86	0.1804	0.0522
Jupiter	742-08-11 14:52 J	1992296.01	1992296.12	1992296.24	0.0535	0.0254
Jupiter	742-11-08 22:19 J	1992385.34	1992385.43	1992385.53	0.0533	0.0343
Mars	742-12-19 01:55 J	1992425.44	1992425.58	1992425.71	0.1739	0.0982
Moon	743-10-28 11:16 J	1992738.94	1992738.97	1992738.99	0.2703	0.2598
Earth	743-10-28 11:45 J	1992738.98	1992738.99	1992739.01	0.2700	0.2675 *
Venus	744-05-21 13:40 J	1992944.94	1992945.07	1992945.19	0.3693	0.1872
Saturn	745-08-04 08:09 J	1993384.74	1993384.84	1993384.96	0.0272	0.0212
Saturn	745-11-01 04:19 J	1993473.50	1993473.68	1993473.85	0.0272	0.0066
Saturn	746-01-29 00:14 J	1993562.34	1993562.51	1993562.69	0.0271	0.0081
Saturn	746-04-27 20:38 J	1993651.27	1993651.36	1993651.46	0.0270	0.0228
Moon	747-04-20 00:00 J	1994008.37	1994008.50	1994008.64	0.2640	0.1321
Earth	747-04-20 01:40 J	1994008.42	1994008.57	1994008.72	0.2636	0.1055 *
Venus	748-05-20 08:38 J	1994404.80	1994404.86	1994404.93	0.3677	0.2916
Jupiter	748-09-24 23:45 J	1994532.33	1994532.49	1994532.65	0.0492	0.0232
Jupiter	748-12-24 06:14 J	1994622.69	1994622.76	1994622.83	0.0494	0.0454
Venus	749-12-05 19:26 J	1994969.18	1994969.31	1994969.44	0.3691	0.1711
Moon	750-10-21 12:14 J	1995288.91	1995289.01	1995289.11	0.2690	0.1068

Earth	750-10-21 12:00 J	1995288.91	1995289.00	1995289.10	0.2696	0.1158 *
Mars	751-04-14 15:21 J	1995464.05	1995464.14	1995464.23	0.1811	0.1134
Mars	752-05-10 00:00 J	1995855.33	1995855.50	1995855.67	0.1731	0.0016
Mars	753-03-20 00:57 J	1996169.46	1996169.54	1996169.62	0.1782	0.1293
Venus	753-12-04 01:12 J	1996428.45	1996428.55	1996428.65	0.3678	0.1463
Jupiter	754-05-30 18:28 J	1996606.18	1996606.27	1996606.35	0.0535	0.0409
Jupiter	754-08-28 02:09 J	1996695.47	1996695.59	1996695.71	0.0534	0.0193
Venus	759-06-19 17:31 J	1998452.13	1998452.23	1998452.34	0.3679	0.0079
Moon	760-04-22 08:38 J	1998759.75	1998759.86	1998759.97	0.2640	0.1864
Earth	760-04-22 09:21 J	1998759.78	1998759.89	1998760.01	0.2635	0.1861 *
Jupiter	760-07-13 22:19 J	1998842.33	1998842.43	1998842.54	0.0492	0.0394
Uranus	760-09-03 18:14 J	1998894.22	1998894.26	1998894.30	0.0135	0.0128
Mars	760-09-04 00:14 J	1998894.49	1998894.51	1998894.54	0.1818	0.1771
Jupiter	760-10-12 04:04 J	1998932.53	1998932.67	1998932.83	0.0493	0.0285
Uranus	760-11-30 21:21 J	1998982.32	1998982.39	1998982.47	0.0135	0.0110
Saturn	761-02-23 19:40 J	1999067.27	1999067.32	1999067.38	0.0288	0.0258
Uranus	761-02-27 00:43 J	1999070.43	1999070.53	1999070.62	0.0135	0.0093
Saturn	761-05-23 08:24 J	1999155.73	1999155.85	1999155.98	0.0289	0.0127
Uranus	761-05-26 03:35 J	1999158.55	1999158.65	1999158.77	0.0135	0.0075
Saturn	761-08-19 21:07 J	1999244.24	1999244.38	1999244.51	0.0290	0.0006
Uranus	761-08-22 06:57 J	1999246.67	1999246.79	1999246.91	0.0135	0.0057
Mars	761-09-29 22:33 J	1999285.30	1999285.44	1999285.58	0.1724	0.0916
Saturn	761-11-16 09:35 J	1999332.78	1999332.90	1999333.02	0.0290	0.0137
Uranus	761-11-18 10:04 J	1999334.79	1999334.92	1999335.05	0.0135	0.0040
Saturn	762-02-12 21:50 J	1999421.36	1999421.41	1999421.46	0.0291	0.0268
Uranus	762-02-14 13:12 J	1999422.92	1999423.05	1999423.18	0.0135	0.0022
Uranus	762-05-13 16:19 J	1999511.05	1999511.18	1999511.31	0.0136	0.0004
Uranus	762-08-09 19:26 J	1999599.18	1999599.31	1999599.44	0.0136	0.0014
Mars	762-08-10 10:47 J	1999599.84	1999599.95	1999600.05	0.1789	0.0725
Uranus	762-11-05 22:33 J	1999687.31	1999687.44	1999687.57	0.0136	0.0031

Uranus	763-02-02 01:40 J	1999775.45	1999775.57	1999775.69	0.0136	0.0049
Uranus	763-05-01 04:33 J	1999863.58	1999863.69	1999863.81	0.0136	0.0067
Uranus	763-07-28 07:55 J	1999951.73	1999951.83	1999951.93	0.0136	0.0084
Moon	763-10-24 05:16 J	2000039.61	2000039.72	2000039.83	0.2691	0.0117
Earth	763-10-24 05:45 J	2000039.63	2000039.74	2000039.84	0.2697	0.0255 *
Uranus	763-10-24 10:47 J	2000039.87	2000039.95	2000040.04	0.0136	0.0102
Uranus	764-01-20 13:55 J	2000128.02	2000128.08	2000128.15	0.0136	0.0120
Venus	765-01-02 09:50 J	2000475.81	2000475.91	2000476.01	0.3680	0.1347
Jupiter	766-06-16 06:00 J	2001005.62	2001005.75	2001005.87	0.0534	0.0048
Venus	770-07-19 01:55 J	2002499.51	2002499.58	2002499.65	0.3681	0.2702
Mars	771-12-31 20:24 J	2003030.24	2003030.35	2003030.47	0.1797	0.0146
Jupiter	772-07-31 01:55 J	2003242.41	2003242.58	2003242.76	0.0492	0.0110
Saturn	774-12-22 08:24 J	2004116.79	2004116.85	2004116.93	0.0273	0.0249
Saturn	775-03-21 04:19 J	2004205.52	2004205.68	2004205.85	0.0272	0.0104
Saturn	775-06-18 00:28 J	2004294.34	2004294.52	2004294.70	0.0271	0.0043
Saturn	775-09-14 20:38 J	2004383.24	2004383.36	2004383.49	0.0271	0.0190
Moon	776-10-25 22:33 J	2004790.35	2004790.44	2004790.53	0.2697	0.1555
Earth	776-10-25 23:16 J	2004790.38	2004790.47	2004790.55	0.2699	0.1598 *
Jupiter	778-04-04 09:21 J	2005315.77	2005315.89	2005316.02	0.0535	0.0110
Jupiter	778-07-02 16:33 J	2005405.14	2005405.19	2005405.25	0.0533	0.0483
Mars	781-05-23 06:00 J	2006460.64	2006460.75	2006460.86	0.1803	0.0451
Mars	782-06-19 02:24 J	2006852.47	2006852.60	2006852.73	0.1738	0.1073
Earth	783-10-19 23:16 J	2007340.41	2007340.47	2007340.53	0.2695	0.2252
Moon	783-10-19 23:45 J	2007340.43	2007340.49	2007340.56	0.2690	0.2144 *
Jupiter	784-05-19 00:14 J	2007552.33	2007552.51	2007552.69	0.0492	0.0057
Jupiter	790-01-21 13:26 J	2009625.95	2009626.06	2009626.18	0.0535	0.0253
Jupiter	790-04-20 20:52 J	2009715.28	2009715.37	2009715.47	0.0534	0.0345
Saturn	790-10-10 10:33 J	2009887.83	2009887.94	2009888.05	0.0288	0.0164
Mars	790-10-13 15:07 J	2009891.04	2009891.13	2009891.23	0.1811	0.1076
Saturn	791-01-06 23:02 J	2009976.33	2009976.46	2009976.60	0.0289	0.0034

Saturn	791-04-05 11:31 J	2010064.86	2010064.98	2010065.11	0.0289	0.0098
Saturn	791-07-02 23:45 J	2010153.42	2010153.49	2010153.58	0.0290	0.0229
Mars	791-11-09 00:28 J	2010282.36	2010282.52	2010282.69	0.1731	0.0107
Mars	792-09-18 00:57 J	2010596.47	2010596.54	2010596.61	0.1782	0.1350
Pluto	792-11-23 08:09 J	2010662.79	2010662.84	2010662.91	0.0073	0.0068
Pluto	793-02-19 09:50 J	2010750.82	2010750.91	2010751.04	0.0072	0.0057
Moon	793-04-20 06:43 J	2010810.63	2010810.78	2010810.94	0.2640	0.0630
Earth	793-04-20 08:24 J	2010810.69	2010810.85	2010811.01	0.2636	0.0488 *
Pluto	793-05-18 12:00 J	2010838.87	2010839.00	2010839.15	0.0072	0.0044
Pluto	793-08-14 13:40 J	2010926.93	2010927.07	2010927.25	0.0072	0.0033
Pluto	793-11-10 15:50 J	2011014.99	2011015.16	2011015.33	0.0072	0.0021
Pluto	794-02-06 17:45 J	2011103.06	2011103.24	2011103.42	0.0072	0.0010
Pluto	794-05-05 19:40 J	2011191.14	2011191.32	2011191.49	0.0072	0.0002
Pluto	794-08-01 21:21 J	2011279.22	2011279.39	2011279.57	0.0072	0.0012
Pluto	794-10-28 23:02 J	2011367.30	2011367.46	2011367.63	0.0072	0.0024
Pluto	795-01-25 00:43 J	2011455.39	2011455.53	2011455.69	0.0071	0.0035
Pluto	795-04-23 02:24 J	2011543.48	2011543.60	2011543.75	0.0071	0.0045
Pluto	795-07-20 04:04 J	2011631.58	2011631.67	2011631.79	0.0071	0.0056
Pluto	795-10-16 06:00 J	2011719.70	2011719.75	2011719.82	0.0071	0.0067
Jupiter	796-03-06 22:19 J	2011862.27	2011862.43	2011862.59	0.0492	0.0225
Jupiter	796-06-05 04:33 J	2011952.63	2011952.69	2011952.76	0.0493	0.0459
Moon	796-10-21 17:02 J	2012091.10	2012091.21	2012091.31	0.2690	0.0898
Earth	796-10-21 16:47 J	2012091.10	2012091.20	2012091.31	0.2696	0.0872 *
Mars	800-03-05 00:28 J	2013321.48	2013321.52	2013321.56	0.1817	0.1701
Venus	800-12-26 14:38 J	2013617.97	2013618.11	2013618.26	0.3692	0.0787
Mars	801-03-30 23:16 J	2013712.33	2013712.47	2013712.62	0.1724	0.0820
Uranus	801-06-25 15:50 J	2013799.06	2013799.16	2013799.27	0.0143	0.0119
Uranus	801-09-22 00:00 J	2013887.35	2013887.50	2013887.65	0.0143	0.0089
Jupiter	801-11-09 17:31 J	2013936.14	2013936.23	2013936.31	0.0536	0.0400
Uranus	801-12-19 07:55 J	2013975.66	2013975.83	2013976.01	0.0143	0.0060

Jupiter 802-02-07 01:12 J 2014025.43 2014025.55 2014025.67 0.0534 0.0204

Mars 802-02-08 10:47 J 2014026.84 2014026.95 2014027.05 0.1789 0.0785

Uranus 802-03-17 16:04 J 2014063.99 2014064.17 2014064.36 0.0143 0.0030

Uranus 802-06-14 00:14 J 2014152.32 2014152.51 2014152.70 0.0143 0.0001

Uranus 802-09-10 08:09 J 2014240.66 2014240.84 2014241.04 0.0143 0.0031

Uranus 802-12-07 16:19 J 2014329.02 2014329.18 2014329.36 0.0142 0.0061

Uranus 803-03-06 00:28 J 2014417.38 2014417.52 2014417.68 0.0142 0.0091

Uranus 803-06-02 08:52 J 2014505.77 2014505.87 2014505.98 0.0142 0.0120

Neptune 803-08-22 14:09 J 2014587.02 2014587.09 2014587.17 0.0088 0.0080

Neptune 803-11-18 17:16 J 2014675.12 2014675.22 2014675.33 0.0088 0.0071

Neptune 804-02-14 20:24 J 2014763.23 2014763.35 2014763.49 0.0088 0.0062

Neptune 804-05-12 23:31 J 2014851.34 2014851.48 2014851.64 0.0088 0.0053

Saturn 804-08-07 01:40 J 2014937.43 2014937.57 2014937.72 0.0272 0.0161

Neptune 804-08-09 02:38 J 2014939.46 2014939.61 2014939.79 0.0088 0.0044

Saturn 804-11-03 21:50 J 2015026.23 2015026.41 2015026.59 0.0272 0.0015

Neptune 804-11-05 06:14 J 2015027.59 2015027.76 2015027.93 0.0088 0.0034

Venus 804-12-25 06:28 J 2015077.69 2015077.77 2015077.85 0.3677 0.2421

Saturn 805-01-31 18:00 J 2015115.09 2015115.25 2015115.41 0.0271 0.0132

Neptune 805-02-01 09:21 J 2015115.71 2015115.89 2015116.07 0.0088 0.0025

Neptune 805-04-30 12:28 J 2015203.84 2015204.02 2015204.21 0.0088 0.0016

Neptune 805-07-27 15:50 J 2015291.97 2015292.16 2015292.35 0.0088 0.0006

Neptune 805-10-23 18:57 J 2015380.11 2015380.29 2015380.48 0.0088 0.0004

Neptune 806-01-19 22:19 J 2015468.25 2015468.43 2015468.62 0.0088 0.0012

Neptune 806-04-18 01:26 J 2015556.39 2015556.56 2015556.75 0.0088 0.0022

Moon 806-04-23 15:50 J 2015562.08 2015562.16 2015562.23 0.2641 0.2300

Earth 806-04-23 16:04 J 2015562.11 2015562.17 2015562.23 0.2634 0.2430 *

Venus 806-07-12 20:38 J 2015642.27 2015642.36 2015642.46 0.3691 0.2872

Neptune 806-07-15 04:33 J 2015644.53 2015644.69 2015644.88 0.0088 0.0032

Neptune 806-10-11 07:55 J 2015732.68 2015732.83 2015733.01 0.0088 0.0041

Neptune 807-01-07 11:31 J 2015820.82 2015820.98 2015821.13 0.0088 0.0050

Neptune	807-04-05 14:24 J	2015908.98	2015909.10	2015909.25	0.0088	0.0060
Neptune	807-07-02 17:45 J	2015997.14	2015997.24	2015997.37	0.0088	0.0070
Neptune	807-09-28 21:07 J	2016085.31	2016085.38	2016085.48	0.0088	0.0079
Jupiter	807-12-24 20:52 J	2016172.26	2016172.37	2016172.48	0.0492	0.0386
Jupiter	808-03-24 02:38 J	2016262.47	2016262.61	2016262.76	0.0493	0.0290
Moon	809-10-24 10:04 J	2016841.81	2016841.92	2016842.03	0.2692	0.0512
Earth	809-10-24 10:19 J	2016841.83	2016841.93	2016842.04	0.2698	0.0518 *
Venus	810-07-10 22:47 J	2017101.35	2017101.45	2017101.56	0.3678	0.0997
Mars	811-07-01 20:24 J	2017457.24	2017457.35	2017457.47	0.1796	0.0205
Jupiter	813-11-26 04:47 J	2018335.57	2018335.70	2018335.83	0.0534	0.0052
Venus	816-01-24 15:21 J	2019125.03	2019125.14	2019125.24	0.3679	0.0451
Jupiter	820-01-11 00:57 J	2020572.36	2020572.54	2020572.71	0.0493	0.0122
Saturn	820-02-27 11:45 J	2020619.90	2020619.99	2020620.09	0.0288	0.0207
Saturn	820-05-26 00:28 J	2020708.39	2020708.52	2020708.65	0.0289	0.0076
Saturn	820-08-22 12:57 J	2020796.91	2020797.04	2020797.18	0.0290	0.0057
Saturn	820-11-19 01:26 J	2020885.46	2020885.56	2020885.66	0.0290	0.0187
Mars	820-11-21 05:45 J	2020887.63	2020887.74	2020887.86	0.1804	0.0403
Venus	821-08-09 07:26 J	2021148.72	2021148.81	2021148.90	0.3680	0.1800
Mars	821-12-18 03:07 J	2021279.51	2021279.63	2021279.76	0.1739	0.1173
Moon	822-10-27 03:21 J	2021592.55	2021592.64	2021592.72	0.2699	0.1713
Earth	822-10-27 03:50 J	2021592.59	2021592.66	2021592.74	0.2699	0.1877 *
Jupiter	825-09-14 08:24 J	2022645.73	2022645.85	2022645.98	0.0535	0.0100
Jupiter	825-12-12 15:35 J	2022735.11	2022735.15	2022735.20	0.0533	0.0491
Venus	827-02-22 23:31 J	2023172.43	2023172.48	2023172.53	0.3681	0.3149
Earth	829-10-20 04:04 J	2024142.60	2024142.67	2024142.74	0.2695	0.1965
Moon	829-10-20 04:33 J	2024142.62	2024142.69	2024142.77	0.2691	0.1891 *
Mars	830-04-13 15:21 J	2024318.04	2024318.14	2024318.23	0.1811	0.1008
Mars	831-05-10 01:26 J	2024709.39	2024709.56	2024709.73	0.1731	0.0204
Jupiter	831-10-29 22:47 J	2024882.27	2024882.45	2024882.63	0.0492	0.0048
Mars	832-03-19 00:57 J	2025023.47	2025023.54	2025023.61	0.1782	0.1407

Saturn	833-12-25 02:09 J	2025669.47	2025669.59	2025669.71	0.0273	0.0198
Saturn	834-03-23 22:04 J	2025758.25	2025758.42	2025758.60	0.0272	0.0052
Saturn	834-06-20 18:14 J	2025847.09	2025847.26	2025847.43	0.0271	0.0095
Saturn	834-09-17 14:38 J	2025936.03	2025936.11	2025936.19	0.0271	0.0243
Jupiter	837-07-03 11:45 J	2026955.88	2026955.99	2026956.10	0.0536	0.0258
Jupiter	837-09-30 19:12 J	2027045.21	2027045.30	2027045.40	0.0534	0.0342
Moon	839-04-21 13:40 J	2027612.91	2027613.07	2027613.23	0.2640	0.0132
Earth	839-04-21 15:07 J	2027612.97	2027613.13	2027613.29	0.2636	0.0080 *
Mars	839-09-04 00:28 J	2027748.47	2027748.52	2027748.57	0.1817	0.1640
Mars	840-09-28 23:45 J	2028139.34	2028139.49	2028139.64	0.1724	0.0739
Mars	841-08-09 10:47 J	2028453.85	2028453.95	2028454.05	0.1789	0.0846
Moon	842-10-22 21:35 J	2028893.29	2028893.40	2028893.51	0.2689	0.0563
Earth	842-10-22 21:35 J	2028893.30	2028893.40	2028893.51	0.2696	0.0586 *
Jupiter	843-08-17 21:07 J	2029192.22	2029192.38	2029192.55	0.0492	0.0213
Jupiter	843-11-16 03:21 J	2029282.59	2029282.64	2029282.69	0.0493	0.0469
Uranus	844-09-24 01:12 J	2029595.50	2029595.55	2029595.59	0.0135	0.0126
Uranus	844-12-21 04:04 J	2029683.60	2029683.67	2029683.76	0.0135	0.0108
Uranus	845-03-19 07:26 J	2029771.71	2029771.81	2029771.91	0.0135	0.0090
Uranus	845-06-15 10:33 J	2029859.83	2029859.94	2029860.06	0.0135	0.0073
Uranus	845-09-11 13:40 J	2029947.95	2029948.07	2029948.20	0.0135	0.0055
Uranus	845-12-08 16:47 J	2030036.08	2030036.20	2030036.33	0.0135	0.0037
Uranus	846-03-06 20:09 J	2030124.20	2030124.34	2030124.47	0.0136	0.0020
Uranus	846-06-02 23:16 J	2030212.33	2030212.47	2030212.60	0.0136	0.0003
Uranus	846-08-30 02:24 J	2030300.47	2030300.60	2030300.73	0.0136	0.0016
Uranus	846-11-26 05:31 J	2030388.60	2030388.73	2030388.85	0.0136	0.0034
Uranus	847-02-22 08:24 J	2030476.73	2030476.85	2030476.98	0.0136	0.0052
Uranus	847-05-21 11:45 J	2030564.87	2030564.99	2030565.10	0.0136	0.0069
Uranus	847-08-17 14:38 J	2030653.02	2030653.11	2030653.22	0.0136	0.0087
Uranus	847-11-13 17:45 J	2030741.16	2030741.24	2030741.33	0.0136	0.0105
Uranus	848-02-09 20:52 J	2030829.32	2030829.37	2030829.43	0.0136	0.0122

Jupiter	849-04-21 15:35 J	2031266.07	2031266.15	2031266.24	0.0536	0.0405	
Saturn	849-07-16 14:24 J	2031352.03	2031352.10	2031352.18	0.0287	0.0240	
Jupiter	849-07-19 23:31 J	2031355.36	2031355.48	2031355.60	0.0534	0.0201	
Saturn	849-10-13 03:07 J	2031440.50	2031440.63	2031440.76	0.0288	0.0109	
Saturn	850-01-09 15:35 J	2031529.02	2031529.15	2031529.29	0.0289	0.0022	
Mars	850-02-18 23:02 J	2031569.41	2031569.46	2031569.51	0.1718	0.1626	
Saturn	850-04-08 04:04 J	2031617.56	2031617.67	2031617.78	0.0289	0.0152	
Saturn	850-07-05 16:19 J	2031706.15	2031706.18	2031706.21	0.0290	0.0281	
Mars	850-12-30 20:24 J	2031884.24	2031884.35	2031884.47	0.1796	0.0268	
Venus	852-01-17 10:33 J	2032266.86	2032266.94	2032267.01	0.3693	0.3149	
Jupiter	855-06-05 19:12 J	2033502.19	2033502.30	2033502.41	0.0492	0.0382	
Jupiter	855-09-04 00:43 J	2033592.39	2033592.53	2033592.68	0.0493	0.0294	
Moon	855-10-25 14:52 J	2033644.01	2033644.12	2033644.22	0.2693	0.0685	
Earth	855-10-25 15:07 J	2033644.03	2033644.13	2033644.24	0.2698	0.0799	*
Venus	856-01-16 11:31 J	2033726.94	2033726.98	2033727.02	0.3677	0.3398	
Venus	857-08-02 16:04 J	2034291.02	2034291.17	2034291.31	0.3692	0.0354	
Mars	860-05-22 06:00 J	2035314.63	2035314.75	2035314.86	0.1803	0.0338	
Jupiter	861-05-08 03:35 J	2035665.52	2035665.65	2035665.78	0.0535	0.0058	
Mars	861-06-18 04:04 J	2035706.56	2035706.67	2035706.78	0.1739	0.1276	
Venus	861-08-01 04:04 J	2035750.58	2035750.67	2035750.76	0.3677	0.1942	
Saturn	863-05-14 00:14 J	2036401.45	2036401.51	2036401.58	0.0273	0.0250	
Saturn	863-08-10 20:09 J	2036490.17	2036490.34	2036490.50	0.0272	0.0105	
Saturn	863-11-07 16:04 J	2036579.00	2036579.17	2036579.35	0.0271	0.0042	
Saturn	864-02-04 12:14 J	2036667.89	2036668.01	2036668.15	0.0271	0.0189	
Venus	867-02-14 20:38 J	2037774.25	2037774.36	2037774.46	0.3679	0.0526	
Jupiter	867-06-22 23:02 J	2037902.28	2037902.46	2037902.63	0.0493	0.0125	
Moon	868-10-27 07:55 J	2038394.77	2038394.83	2038394.90	0.2699	0.2119	
Earth	868-10-27 08:38 J	2038394.80	2038394.86	2038394.93	0.2699	0.2157	*
Mars	869-10-12 15:21 J	2038745.04	2038745.14	2038745.23	0.1810	0.0954	
Mars	870-11-08 02:09 J	2039136.42	2039136.59	2039136.75	0.1732	0.0298	

Mars	871-09-18 00:57 J	2039450.47	2039450.54	2039450.60	0.1782	0.1465
Moon	872-04-18 12:28 J	2039663.96	2039664.02	2039664.09	0.2639	0.2371
Earth	872-04-18 14:24 J	2039664.02	2039664.10	2039664.18	0.2638	0.2231 *
Venus	872-08-30 12:57 J	2039797.93	2039798.04	2039798.14	0.3679	0.0891
Jupiter	873-02-24 07:12 J	2039975.67	2039975.80	2039975.93	0.0535	0.0095
Jupiter	873-05-24 14:24 J	2040065.06	2040065.10	2040065.15	0.0533	0.0495
Earth	875-10-21 08:52 J	2040944.79	2040944.87	2040944.95	0.2695	0.1680
Moon	875-10-21 09:21 J	2040944.80	2040944.89	2040944.97	0.2690	0.1631 *
Venus	878-03-16 05:02 J	2041821.63	2041821.71	2041821.79	0.3680	0.2254
Saturn	878-12-03 16:04 J	2042084.14	2042084.17	2042084.20	0.0287	0.0280
Saturn	879-03-02 04:47 J	2042172.58	2042172.70	2042172.82	0.0288	0.0149
Mars	879-03-05 00:28 J	2042175.46	2042175.52	2042175.57	0.1818	0.1579
Jupiter	879-04-10 21:07 J	2042212.20	2042212.38	2042212.57	0.0492	0.0045
Saturn	879-05-29 17:16 J	2042261.09	2042261.22	2042261.36	0.0289	0.0020
Saturn	879-08-26 05:45 J	2042349.62	2042349.74	2042349.87	0.0290	0.0113
Saturn	879-11-22 18:14 J	2042438.19	2042438.26	2042438.33	0.0291	0.0243
Mars	880-03-30 00:43 J	2042566.38	2042566.53	2042566.69	0.1725	0.0634
Mars	881-02-07 10:47 J	2042880.85	2042880.95	2042881.05	0.1789	0.0903
Venus	883-09-29 21:07 J	2043845.36	2043845.38	2043845.40	0.3682	0.3591
Jupiter	884-12-13 10:47 J	2044285.83	2044285.95	2044286.06	0.0535	0.0249
Jupiter	885-03-12 18:14 J	2044375.16	2044375.26	2044375.36	0.0533	0.0348
Moon	885-04-21 20:52 J	2044415.21	2044415.37	2044415.52	0.2641	0.0507
Earth	885-04-21 21:50 J	2044415.26	2044415.41	2044415.57	0.2636	0.0651 *
Neptune	885-06-05 23:16 J	2044460.44	2044460.47	2044460.52	0.0089	0.0085
Uranus	885-07-15 22:19 J	2044500.32	2044500.43	2044500.54	0.0143	0.0115
Neptune	885-09-02 00:43 J	2044548.48	2044548.53	2044548.61	0.0089	0.0078
Uranus	885-10-12 06:14 J	2044588.62	2044588.76	2044588.92	0.0143	0.0086
Neptune	885-11-29 02:09 J	2044636.52	2044636.59	2044636.69	0.0089	0.0071
Uranus	886-01-08 14:24 J	2044676.93	2044677.10	2044677.28	0.0143	0.0056
Neptune	886-02-25 03:50 J	2044724.57	2044724.66	2044724.76	0.0089	0.0063

Uranus 886-04-06 22:33 J 2044765.25 2044765.44 2044765.63 0.0143 0.0026

Neptune 886-05-24 05:16 J 2044812.62 2044812.72 2044812.84 0.0089 0.0056

Uranus 886-07-04 06:43 J 2044853.59 2044853.78 2044853.97 0.0143 0.0005

Neptune 886-08-20 06:43 J 2044900.68 2044900.78 2044900.91 0.0089 0.0049

Uranus 886-09-30 14:52 J 2044941.93 2044942.12 2044942.30 0.0143 0.0034

Neptune 886-11-16 08:09 J 2044988.73 2044988.84 2044988.97 0.0089 0.0042

Uranus 886-12-27 22:33 J 2045030.28 2045030.44 2045030.63 0.0142 0.0065

Neptune 887-02-12 09:50 J 2045076.79 2045076.91 2045077.04 0.0089 0.0034

Uranus 887-03-26 06:43 J 2045118.65 2045118.78 2045118.94 0.0142 0.0095

Neptune 887-05-11 11:16 J 2045164.84 2045164.97 2045165.11 0.0089 0.0027

Uranus 887-06-22 15:07 J 2045207.05 2045207.13 2045207.23 0.0142 0.0124

Neptune 887-08-07 12:43 J 2045252.90 2045253.03 2045253.17 0.0089 0.0020

Neptune 887-11-03 14:09 J 2045340.96 2045341.09 2045341.23 0.0089 0.0013

Neptune 888-01-30 15:50 J 2045429.02 2045429.16 2045429.29 0.0089 0.0005

Neptune 888-04-27 17:16 J 2045517.08 2045517.22 2045517.35 0.0089 0.0003

Neptune 888-07-24 18:43 J 2045605.14 2045605.28 2045605.41 0.0089 0.0010

Neptune 888-10-20 20:09 J 2045693.20 2045693.34 2045693.47 0.0089 0.0017

Moon 888-10-23 02:24 J 2045695.49 2045695.60 2045695.71 0.2689 0.0320

Earth 888-10-23 02:24 J 2045695.50 2045695.60 2045695.71 0.2696 0.0308 *

Neptune 889-01-16 21:35 J 2045781.27 2045781.40 2045781.53 0.0089 0.0024

Neptune 889-04-14 22:47 J 2045869.33 2045869.45 2045869.58 0.0089 0.0031

Neptune 889-07-12 00:14 J 2045957.39 2045957.51 2045957.64 0.0089 0.0038

Mars 889-08-19 23:31 J 2045996.41 2045996.48 2045996.56 0.1717 0.1541

Neptune 889-10-08 01:40 J 2046045.46 2046045.57 2046045.69 0.0089 0.0045

Neptune 890-01-04 03:07 J 2046133.53 2046133.63 2046133.74 0.0089 0.0052

Neptune 890-04-02 04:33 J 2046221.59 2046221.69 2046221.79 0.0089 0.0059

Neptune 890-06-29 06:00 J 2046309.66 2046309.75 2046309.84 0.0089 0.0066

Mars 890-06-30 20:24 J 2046311.24 2046311.35 2046311.46 0.1796 0.0323

Neptune 890-09-25 07:26 J 2046397.73 2046397.81 2046397.89 0.0089 0.0073

Neptune 890-12-22 08:52 J 2046485.81 2046485.87 2046485.93 0.0089 0.0080

Jupiter	891-01-27 19:26 J	2046522.15	2046522.31	2046522.48	0.0492	0.0208	
Neptune	891-03-20 10:04 J	2046573.90	2046573.92	2046573.96	0.0089	0.0087	
Jupiter	891-04-28 01:40 J	2046612.52	2046612.57	2046612.62	0.0493	0.0474	
Saturn	892-12-27 20:38 J	2047222.21	2047222.36	2047222.51	0.0273	0.0141	
Saturn	893-03-26 16:33 J	2047311.01	2047311.19	2047311.38	0.0272	0.0009	
Saturn	893-06-23 12:43 J	2047399.89	2047400.03	2047400.19	0.0271	0.0154	
Jupiter	896-10-01 13:40 J	2048595.99	2048596.07	2048596.16	0.0536	0.0412	
Jupiter	896-12-29 21:35 J	2048685.28	2048685.40	2048685.52	0.0534	0.0194	
Mars	899-11-21 06:00 J	2049741.63	2049741.75	2049741.86	0.1803	0.0272	
Mars	900-12-17 04:33 J	2050133.59	2050133.69	2050133.79	0.1739	0.1359	
Moon	901-10-25 19:26 J	2050446.21	2050446.31	2050446.41	0.2695	0.1021	
Earth	901-10-25 19:55 J	2050446.24	2050446.33	2050446.43	0.2698	0.1084	*
Jupiter	902-11-15 17:45 J	2050832.13	2050832.24	2050832.36	0.0491	0.0373	
Jupiter	903-02-13 23:31 J	2050922.34	2050922.48	2050922.62	0.0493	0.0302	
Saturn	908-07-19 07:40 J	2052904.72	2052904.82	2052904.93	0.0287	0.0178	
Venus	908-08-23 11:31 J	2052939.86	2052939.98	2052940.10	0.3693	0.2080	
Saturn	908-10-15 20:24 J	2052993.22	2052993.35	2052993.48	0.0288	0.0047	
Jupiter	908-10-18 01:40 J	2052995.44	2052995.57	2052995.70	0.0535	0.0050	
Saturn	909-01-12 08:52 J	2053081.74	2053081.87	2053082.00	0.0289	0.0083	
Saturn	909-04-10 21:07 J	2053170.29	2053170.38	2053170.47	0.0290	0.0212	
Mars	909-04-12 15:21 J	2053172.04	2053172.14	2053172.24	0.1810	0.0889	
Mars	910-05-09 02:52 J	2053563.46	2053563.62	2053563.78	0.1732	0.0395	
Mars	911-03-19 00:57 J	2053877.48	2053877.54	2053877.60	0.1782	0.1526	
Venus	912-08-22 09:21 J	2054399.83	2054399.89	2054399.95	0.3677	0.2904	
Venus	914-03-09 17:16 J	2054964.08	2054964.22	2054964.35	0.3691	0.1462	
Moon	914-10-28 12:43 J	2055196.98	2055197.03	2055197.09	0.2699	0.2283	
Earth	914-10-28 13:26 J	2055197.02	2055197.06	2055197.11	0.2699	0.2440	*
Jupiter	914-12-02 20:52 J	2055232.20	2055232.37	2055232.55	0.0492	0.0125	
Venus	918-03-08 01:55 J	2056423.48	2056423.58	2056423.67	0.3678	0.1463	
Moon	918-04-19 19:26 J	2056466.20	2056466.31	2056466.41	0.2639	0.1979	

Earth	**918-04-19 21:07 J**	**2056466.26**	**2056466.38**	**2056466.50**	**0.2637**	**0.1674**	*
Mars	**918-09-03 00:28 J**	**2056602.46**	**2056602.52**	**2056602.58**	**0.1817**	**0.1517**	
Mars	**919-09-29 01:26 J**	**2056993.40**	**2056993.56**	**2056993.72**	**0.1725**	**0.0542**	
Jupiter	**920-08-06 05:45 J**	**2057305.61**	**2057305.74**	**2057305.87**	**0.0535**	**0.0094**	
Mars	**920-08-08 10:47 J**	**2057307.85**	**2057307.95**	**2057308.04**	**0.1789**	**0.0962**	
Jupiter	**920-11-03 12:57 J**	**2057395.00**	**2057395.04**	**2057395.09**	**0.0533**	**0.0497**	
Earth	**921-10-21 13:40 J**	**2057746.98**	**2057747.07**	**2057747.16**	**0.2695**	**0.1398**	
Moon	**921-10-21 13:55 J**	**2057746.99**	**2057747.08**	**2057747.18**	**0.2689**	**0.1315**	*
Saturn	**922-05-16 19:26 J**	**2057954.18**	**2057954.31**	**2057954.44**	**0.0273**	**0.0188**	
Saturn	**922-08-13 15:21 J**	**2058042.96**	**2058043.14**	**2058043.32**	**0.0272**	**0.0043**	
Saturn	**922-11-10 11:16 J**	**2058131.81**	**2058131.97**	**2058132.15**	**0.0271**	**0.0105**	
Saturn	**923-02-07 07:40 J**	**2058220.76**	**2058220.82**	**2058220.89**	**0.0271**	**0.0252**	
Venus	**923-09-21 18:14 J**	**2058447.15**	**2058447.26**	**2058447.37**	**0.3679**	**0.0049**	
Jupiter	**926-09-20 18:57 J**	**2059542.11**	**2059542.29**	**2059542.47**	**0.0492**	**0.0045**	
Uranus	**928-10-14 08:09 J**	**2060296.78**	**2060296.84**	**2060296.89**	**0.0135**	**0.0122**	
Uranus	**929-01-10 11:02 J**	**2060384.89**	**2060384.96**	**2060385.05**	**0.0135**	**0.0105**	
Mars	**929-02-18 00:14 J**	**2060423.43**	**2060423.51**	**2060423.60**	**0.1718**	**0.1448**	
Venus	**929-04-06 10:33 J**	**2060470.84**	**2060470.94**	**2060471.04**	**0.3680**	**0.1348**	
Uranus	**929-04-08 14:24 J**	**2060473.00**	**2060473.10**	**2060473.20**	**0.0135**	**0.0087**	
Uranus	**929-07-05 17:31 J**	**2060561.12**	**2060561.23**	**2060561.35**	**0.0135**	**0.0069**	
Uranus	**929-10-01 20:38 J**	**2060649.24**	**2060649.36**	**2060649.49**	**0.0135**	**0.0052**	
Uranus	**929-12-29 00:00 J**	**2060737.37**	**2060737.50**	**2060737.63**	**0.0136**	**0.0034**	
Mars	**929-12-29 20:24 J**	**2060738.24**	**2060738.35**	**2060738.46**	**0.1796**	**0.0384**	
Uranus	**930-03-27 03:07 J**	**2060825.50**	**2060825.63**	**2060825.76**	**0.0136**	**0.0016**	
Uranus	**930-06-23 06:14 J**	**2060913.63**	**2060913.76**	**2060913.89**	**0.0136**	**0.0002**	
Uranus	**930-09-19 09:21 J**	**2061001.76**	**2061001.89**	**2061002.02**	**0.0136**	**0.0019**	
Uranus	**930-12-16 12:28 J**	**2061089.89**	**2061090.02**	**2061090.15**	**0.0136**	**0.0037**	
Uranus	**931-03-14 15:35 J**	**2061178.03**	**2061178.15**	**2061178.27**	**0.0136**	**0.0055**	
Moon	**931-04-23 03:50 J**	**2061217.52**	**2061217.66**	**2061217.80**	**0.2642**	**0.1174**	
Earth	**931-04-23 04:47 J**	**2061217.55**	**2061217.70**	**2061217.84**	**0.2636**	**0.1225**	*

Uranus	931-06-10 18:28 J	2061266.17	2061266.27	2061266.39	0.0136	0.0073
Uranus	931-09-06 21:50 J	2061354.31	2061354.41	2061354.51	0.0136	0.0090
Uranus	931-12-04 00:43 J	2061442.46	2061442.53	2061442.62	0.0136	0.0108
Uranus	932-03-01 04:04 J	2061530.62	2061530.67	2061530.72	0.0136	0.0126
Jupiter	932-05-25 09:21 J	2061615.77	2061615.89	2061616.00	0.0535	0.0248
Jupiter	932-08-22 16:47 J	2061705.10	2061705.20	2061705.29	0.0533	0.0349
Venus	934-10-21 02:38 J	2062494.54	2062494.61	2062494.68	0.3681	0.2706
Moon	934-10-24 07:12 J	2062497.69	2062497.80	2062497.91	0.2690	0.0086
Earth	934-10-24 07:12 J	2062497.69	2062497.80	2062497.91	0.2696	0.0073 *
Saturn	937-12-06 09:21 J	2063636.81	2063636.89	2063636.98	0.0288	0.0218
Saturn	938-03-04 22:04 J	2063725.29	2063725.42	2063725.55	0.0289	0.0087
Saturn	938-06-01 10:33 J	2063813.81	2063813.94	2063814.08	0.0289	0.0045
Jupiter	938-07-09 17:16 J	2063852.06	2063852.22	2063852.39	0.0492	0.0210
Saturn	938-08-28 23:02 J	2063902.36	2063902.46	2063902.57	0.0290	0.0174
Jupiter	938-10-07 23:31 J	2063942.44	2063942.48	2063942.53	0.0493	0.0475
Mars	939-05-22 05:45 J	2064168.63	2064168.74	2064168.86	0.1803	0.0228
Mars	940-06-17 05:31 J	2064560.64	2064560.73	2064560.82	0.1739	0.1470
Jupiter	944-03-13 12:43 J	2065925.94	2065926.03	2065926.11	0.0535	0.0405
Jupiter	944-06-10 20:24 J	2066015.23	2066015.35	2066015.47	0.0534	0.0199
Moon	947-10-27 00:14 J	2067248.41	2067248.51	2067248.60	0.2695	0.1248
Earth	947-10-27 00:43 J	2067248.44	2067248.53	2067248.63	0.2698	0.1365 *
Mars	948-10-11 15:21 J	2067599.04	2067599.14	2067599.24	0.1810	0.0825
Mars	949-11-07 03:35 J	2067990.49	2067990.65	2067990.81	0.1732	0.0489
Jupiter	950-04-27 15:50 J	2068162.05	2068162.16	2068162.28	0.0491	0.0371
Jupiter	950-07-26 21:21 J	2068252.25	2068252.39	2068252.54	0.0493	0.0303
Mars	950-09-17 00:43 J	2068304.48	2068304.53	2068304.59	0.1782	0.1580
Saturn	951-10-03 20:09 J	2068686.24	2068686.34	2068686.44	0.0273	0.0222
Saturn	951-12-31 16:04 J	2068775.00	2068775.17	2068775.34	0.0272	0.0077
Saturn	952-03-29 12:14 J	2068863.83	2068864.01	2068864.18	0.0272	0.0070
Saturn	952-06-26 08:24 J	2068952.75	2068952.85	2068952.96	0.0271	0.0218

Earth	954-10-20 00:57 J	2069798.50	2069798.54	2069798.57	0.2694	0.2501	
Moon	954-10-20 01:26 J	2069798.51	2069798.56	2069798.61	0.2691	0.2343	*
Pluto	954-11-02 22:47 J	2069812.45	2069812.45	2069812.47	0.0071	0.0071	
Pluto	955-01-29 23:31 J	2069900.43	2069900.48	2069900.56	0.0071	0.0063	
Pluto	955-04-28 00:28 J	2069988.44	2069988.52	2069988.63	0.0072	0.0054	
Pluto	955-07-25 01:26 J	2070076.46	2070076.56	2070076.68	0.0072	0.0045	
Pluto	955-10-21 02:24 J	2070164.49	2070164.60	2070164.73	0.0072	0.0036	
Pluto	956-01-17 03:21 J	2070252.51	2070252.64	2070252.78	0.0072	0.0027	
Jupiter	956-03-29 23:31 J	2070325.36	2070325.48	2070325.61	0.0535	0.0043	
Pluto	956-04-14 04:19 J	2070340.55	2070340.68	2070340.82	0.0072	0.0018	
Pluto	956-07-11 05:16 J	2070428.58	2070428.72	2070428.86	0.0072	0.0009	
Pluto	956-10-07 06:14 J	2070516.62	2070516.76	2070516.90	0.0072	0.0000	
Pluto	957-01-03 07:12 J	2070604.66	2070604.80	2070604.94	0.0072	0.0009	
Pluto	957-04-01 08:09 J	2070692.70	2070692.84	2070692.98	0.0072	0.0018	
Pluto	957-06-28 09:07 J	2070780.75	2070780.88	2070781.01	0.0073	0.0028	
Pluto	957-09-24 09:50 J	2070868.80	2070868.91	2070869.04	0.0073	0.0038	
Pluto	957-12-21 10:47 J	2070956.85	2070956.95	2070957.07	0.0073	0.0047	
Mars	958-03-04 00:28 J	2071029.45	2071029.52	2071029.59	0.1817	0.1453	
Pluto	958-03-19 11:45 J	2071044.92	2071044.99	2071045.09	0.0073	0.0057	
Pluto	958-06-15 12:57 J	2071132.99	2071133.04	2071133.10	0.0073	0.0066	
Mars	959-03-30 01:55 J	2071420.42	2071420.58	2071420.74	0.1725	0.0458	
Mars	960-02-07 10:47 J	2071734.86	2071734.95	2071735.04	0.1789	0.1024	
Moon	960-10-28 17:45 J	2071999.23	2071999.24	2071999.25	0.2701	0.2679	
Jupiter	962-05-14 19:26 J	2072562.13	2072562.31	2072562.48	0.0492	0.0132	
Moon	964-04-20 02:09 J	2073268.45	2073268.59	2073268.73	0.2639	0.1205	
Earth	964-04-20 03:50 J	2073268.51	2073268.66	2073268.81	0.2637	0.1108	*
Venus	965-03-30 12:43 J	2073612.89	2073613.03	2073613.17	0.3692	0.0985	
Saturn	967-04-25 12:43 J	2074368.97	2074369.03	2074369.11	0.0287	0.0242	
Saturn	967-07-23 01:26 J	2074457.44	2074457.56	2074457.69	0.0288	0.0112	
Saturn	967-10-19 14:09 J	2074545.95	2074546.09	2074546.22	0.0288	0.0020	

Earth 967-10-22 18:28 J 2074549.17 2074549.27 2074549.37 0.2695 0.1110

Moon 967-10-22 18:43 J 2074549.18 2074549.28 2074549.38 0.2688 0.1129 *

Saturn 968-01-16 02:24 J 2074634.49 2074634.60 2074634.72 0.0289 0.0149

Jupiter 968-01-17 03:35 J 2074635.52 2074635.65 2074635.77 0.0535 0.0108

Neptune 968-02-20 09:50 J 2074669.88 2074669.91 2074669.98 0.0088 0.0085

Saturn 968-04-13 14:38 J 2074723.08 2074723.11 2074723.15 0.0290 0.0278

Jupiter 968-04-15 10:47 J 2074724.90 2074724.95 2074725.00 0.0534 0.0486

Neptune 968-05-18 13:26 J 2074757.97 2074758.06 2074758.16 0.0088 0.0075

Neptune 968-08-14 16:33 J 2074846.07 2074846.19 2074846.31 0.0088 0.0066

Mars 968-08-19 01:12 J 2074850.45 2074850.55 2074850.65 0.1718 0.1353

Neptune 968-11-10 19:40 J 2074934.19 2074934.32 2074934.47 0.0088 0.0057

Neptune 969-02-06 22:47 J 2075022.30 2075022.45 2075022.61 0.0088 0.0048

Venus 969-03-29 07:12 J 2075072.72 2075072.80 2075072.87 0.3677 0.2417

Neptune 969-05-06 01:55 J 2075110.42 2075110.58 2075110.76 0.0088 0.0039

Uranus 969-05-08 21:07 J 2075113.35 2075113.38 2075113.43 0.0143 0.0139

Mars 969-06-29 20:24 J 2075165.24 2075165.35 2075165.46 0.1796 0.0441

Neptune 969-08-02 05:02 J 2075198.55 2075198.71 2075198.90 0.0088 0.0030

Uranus 969-08-05 05:16 J 2075201.60 2075201.72 2075201.85 0.0143 0.0109

Neptune 969-10-29 08:24 J 2075286.67 2075286.85 2075287.04 0.0088 0.0020

Uranus 969-11-01 13:12 J 2075289.90 2075290.05 2075290.22 0.0143 0.0080

Neptune 970-01-25 11:45 J 2075374.80 2075374.99 2075375.18 0.0088 0.0011

Uranus 970-01-28 21:21 J 2075378.22 2075378.39 2075378.57 0.0143 0.0050

Neptune 970-04-23 14:52 J 2075462.94 2075463.12 2075463.31 0.0088 0.0002

Uranus 970-04-27 05:31 J 2075466.54 2075466.73 2075466.92 0.0143 0.0020

Neptune 970-07-20 18:14 J 2075551.07 2075551.26 2075551.45 0.0088 0.0008

Uranus 970-07-24 13:40 J 2075554.88 2075555.07 2075555.26 0.0143 0.0010

Venus 970-10-14 18:28 J 2075637.17 2075637.27 2075637.38 0.3691 0.2604

Neptune 970-10-16 21:21 J 2075639.21 2075639.39 2075639.58 0.0088 0.0017

Uranus 970-10-20 21:50 J 2075643.22 2075643.41 2075643.59 0.0143 0.0040

Neptune 971-01-13 00:28 J 2075727.35 2075727.52 2075727.71 0.0088 0.0027

Uranus	971-01-17 06:00 J	2075731.58	2075731.75	2075731.92	0.0142	0.0070
Neptune	971-04-11 03:50 J	2075815.49	2075815.66	2075815.84	0.0088	0.0036
Uranus	971-04-15 14:09 J	2075819.95	2075820.09	2075820.23	0.0142	0.0100
Neptune	971-07-08 06:57 J	2075903.64	2075903.79	2075903.96	0.0088	0.0046
Uranus	971-07-12 22:04 J	2075908.36	2075908.42	2075908.51	0.0142	0.0130
Neptune	971-10-04 10:19 J	2075991.79	2075991.93	2075992.09	0.0088	0.0055
Neptune	971-12-31 13:26 J	2076079.95	2076080.06	2076080.20	0.0088	0.0065
Neptune	972-03-28 16:47 J	2076168.11	2076168.20	2076168.32	0.0088	0.0074
Neptune	972-06-24 19:55 J	2076256.30	2076256.33	2076256.41	0.0088	0.0084
Jupiter	974-03-02 16:47 J	2076872.02	2076872.20	2076872.38	0.0492	0.0048
Venus	974-10-12 23:31 J	2077096.38	2077096.48	2077096.58	0.3678	0.0982
Moon	977-04-23 10:33 J	2078019.82	2078019.94	2078020.07	0.2642	0.1635
Earth	977-04-23 11:31 J	2078019.86	2078019.98	2078020.09	0.2635	0.1794 *
Mars	978-11-20 06:00 J	2078595.63	2078595.75	2078595.86	0.1803	0.0158
Jupiter	979-11-05 07:26 J	2078945.70	2078945.81	2078945.93	0.0536	0.0253
Mars	979-12-17 06:14 J	2078987.69	2078987.76	2078987.83	0.1739	0.1567
Jupiter	980-02-02 15:07 J	2079035.03	2079035.13	2079035.23	0.0534	0.0347
Venus	980-04-27 15:50 J	2079120.06	2079120.16	2079120.27	0.3679	0.0448
Moon	980-10-24 11:45 J	2079299.88	2079299.99	2079300.10	0.2691	0.0253
Earth	980-10-24 12:00 J	2079299.90	2079300.00	2079300.11	0.2697	0.0281 *
Saturn	981-02-19 19:55 J	2079418.29	2079418.33	2079418.37	0.0273	0.0263
Saturn	981-05-19 15:35 J	2079506.99	2079507.15	2079507.31	0.0272	0.0119
Saturn	981-08-16 11:31 J	2079595.80	2079595.98	2079596.16	0.0272	0.0028
Saturn	981-11-13 07:40 J	2079684.69	2079684.82	2079684.97	0.0271	0.0174
Venus	985-11-11 08:09 J	2081143.75	2081143.84	2081143.93	0.3680	0.1805
Jupiter	985-12-19 14:52 J	2081181.96	2081182.12	2081182.28	0.0492	0.0214
Jupiter	986-03-19 21:07 J	2081272.33	2081272.38	2081272.43	0.0493	0.0469
Mars	988-04-11 15:21 J	2082026.03	2082026.14	2082026.24	0.1810	0.0766
Mars	989-05-08 04:19 J	2082417.52	2082417.68	2082417.84	0.1732	0.0587
Mars	990-03-18 00:57 J	2082731.49	2082731.54	2082731.58	0.1782	0.1640

Venus	**991-05-28 00:14**	**J**	**2083167.46**	**2083167.51**	**2083167.56**	**0.3681**	**0.3151**	
Jupiter	**991-08-24 11:02**	**J**	**2083255.88**	**2083255.96**	**2083256.04**	**0.0536**	**0.0407**	
Jupiter	**991-11-21 18:57**	**J**	**2083345.17**	**2083345.29**	**2083345.40**	**0.0534**	**0.0198**	
Moon	**993-10-27 05:02**	**J**	**2084050.62**	**2084050.71**	**2084050.79**	**0.2695**	**0.1549**	
Earth	**993-10-27 05:31**	**J**	**2084050.65**	**2084050.73**	**2084050.82**	**0.2698**	**0.1640**	*
Saturn	**996-09-11 14:24**	**J**	**2085101.09**	**2085101.10**	**2085101.14**	**0.0287**	**0.0282**	
Saturn	**996-12-09 03:21**	**J**	**2085189.53**	**2085189.64**	**2085189.76**	**0.0288**	**0.0150**	
Saturn	**997-03-07 16:04**	**J**	**2085278.03**	**2085278.17**	**2085278.30**	**0.0289**	**0.0021**	
Saturn	**997-06-04 04:19**	**J**	**2085366.56**	**2085366.68**	**2085366.81**	**0.0290**	**0.0112**	
Saturn	**997-08-31 16:47**	**J**	**2085455.13**	**2085455.20**	**2085455.27**	**0.0290**	**0.0241**	
Mars	**997-09-02 00:28**	**J**	**2085456.45**	**2085456.52**	**2085456.59**	**0.1817**	**0.1396**	
Jupiter	**997-10-07 13:12**	**J**	**2085491.94**	**2085492.05**	**2085492.17**	**0.0492**	**0.0378**	
Jupiter	**998-01-05 18:57**	**J**	**2085582.15**	**2085582.29**	**2085582.44**	**0.0493**	**0.0298**	
Mars	**998-09-28 02:52**	**J**	**2085847.46**	**2085847.62**	**2085847.78**	**0.1725**	**0.0356**	
Mars	**999-08-08 10:33**	**J**	**2086161.85**	**2086161.94**	**2086162.04**	**0.1789**	**0.1078**	
Earth	**1000-10-20 05:45**	**J**	**2086600.68**	**2086600.74**	**2086600.80**	**0.2694**	**0.2215**	
Moon	**1000-10-20 06:14**	**J**	**2086600.70**	**2086600.76**	**2086600.82**	**0.2690**	**0.2188**	*

2ND MILLENNIUM CE

This is a list of transits of Mercury in the 2nd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**1003-09-09 22:19**	**J**	**2087655.31**	**2087655.43**	**2087655.56**	**0.0534**	**0.0047**	
Mars	**1008-02-18 01:40**	**J**	**2089277.46**	**2089277.57**	**2089277.68**	**0.1718**	**0.1267**	

Mars	**1008-12-28 20:24 J**	**2089592.24**	**2089592.35**	**2089592.46**	**0.1796**	**0.0504**
Jupiter	**1009-10-24 17:02 J**	**2089892.04**	**2089892.21**	**2089892.39**	**0.0492**	**0.0130**
Moon	**1010-04-21 09:07 J**	**2090070.73**	**2090070.88**	**2090071.03**	**0.2641**	**0.0818**
Earth	**1010-04-21 10:33 J**	**2090070.78**	**2090070.94**	**2090071.10**	**0.2637**	**0.0547 ***
Saturn	**1010-10-06 16:33 J**	**2090239.04**	**2090239.19**	**2090239.33**	**0.0273**	**0.0153**
Saturn	**1011-01-03 12:28 J**	**2090327.84**	**2090328.02**	**2090328.20**	**0.0272**	**0.0008**
Saturn	**1011-04-02 08:24 J**	**2090416.70**	**2090416.85**	**2090417.01**	**0.0271**	**0.0141**
Uranus	**1012-11-03 14:38 J**	**2090998.07**	**2090998.11**	**2090998.18**	**0.0135**	**0.0121**
Uranus	**1013-01-30 18:00 J**	**2091086.17**	**2091086.25**	**2091086.34**	**0.0135**	**0.0102**
Uranus	**1013-04-28 21:07 J**	**2091174.29**	**2091174.38**	**2091174.49**	**0.0135**	**0.0085**
Uranus	**1013-07-26 00:28 J**	**2091262.41**	**2091262.52**	**2091262.64**	**0.0135**	**0.0066**
Uranus	**1013-10-22 03:35 J**	**2091350.53**	**2091350.65**	**2091350.78**	**0.0135**	**0.0049**
Moon	**1013-10-22 23:31 J**	**2091351.37**	**2091351.48**	**2091351.58**	**0.2688**	**0.0743**
Earth	**1013-10-22 23:16 J**	**2091351.37**	**2091351.47**	**2091351.57**	**0.2695**	**0.0825 ***
Uranus	**1014-01-18 06:43 J**	**2091438.66**	**2091438.78**	**2091438.91**	**0.0136**	**0.0031**
Uranus	**1014-04-16 10:04 J**	**2091526.78**	**2091526.92**	**2091527.05**	**0.0136**	**0.0014**
Uranus	**1014-07-13 13:12 J**	**2091614.91**	**2091615.05**	**2091615.18**	**0.0136**	**0.0006**
Uranus	**1014-10-09 16:19 J**	**2091703.05**	**2091703.18**	**2091703.31**	**0.0136**	**0.0023**
Uranus	**1015-01-05 19:26 J**	**2091791.18**	**2091791.31**	**2091791.43**	**0.0136**	**0.0040**
Uranus	**1015-04-03 22:33 J**	**2091879.32**	**2091879.44**	**2091879.56**	**0.0136**	**0.0058**
Jupiter	**1015-06-29 01:26 J**	**2091965.43**	**2091965.56**	**2091965.69**	**0.0535**	**0.0119**
Uranus	**1015-07-01 01:26 J**	**2091967.46**	**2091967.56**	**2091967.68**	**0.0136**	**0.0076**
Jupiter	**1015-09-26 08:52 J**	**2092054.81**	**2092054.87**	**2092054.92**	**0.0534**	**0.0475**
Uranus	**1015-09-27 04:47 J**	**2092055.60**	**2092055.70**	**2092055.79**	**0.0136**	**0.0093**
Uranus	**1015-12-24 07:40 J**	**2092143.75**	**2092143.82**	**2092143.90**	**0.0136**	**0.0111**
Uranus	**1016-03-21 11:02 J**	**2092231.92**	**2092231.96**	**2092232.00**	**0.0136**	**0.0129**
Venus	**1016-04-20 08:38 J**	**2092261.80**	**2092261.86**	**2092261.92**	**0.3693**	**0.3316**
Mars	**1018-05-21 06:00 J**	**2093022.63**	**2093022.75**	**2093022.87**	**0.1803**	**0.0088**
Mars	**1019-06-17 06:57 J**	**2093414.74**	**2093414.79**	**2093414.84**	**0.1739**	**0.1656**
Venus	**1020-04-19 12:14 J**	**2093721.97**	**2093722.01**	**2093722.05**	**0.3677**	**0.3384**

Jupiter	1021-08-12 15:07 J	2094201.95	2094202.13	2094202.31	0.0492	0.0041
Venus	1021-11-04 13:55 J	2094285.94	2094286.08	2094286.23	0.3692	0.0158
Moon	1023-04-24 17:31 J	2094822.16	2094822.23	2094822.30	0.2642	0.2374
Earth	1023-04-24 18:14 J	2094822.19	2094822.26	2094822.33	0.2635	0.2368 *
Venus	1025-11-03 04:47 J	2095745.61	2095745.70	2095745.79	0.3677	0.1926
Saturn	1026-04-28 06:57 J	2095921.69	2095921.79	2095921.90	0.0287	0.0172
Saturn	1026-07-25 19:40 J	2096010.19	2096010.32	2096010.45	0.0288	0.0042
Saturn	1026-10-22 08:09 J	2096098.71	2096098.84	2096098.97	0.0289	0.0088
Moon	1026-10-25 16:19 J	2096102.08	2096102.18	2096102.29	0.2691	0.0453
Earth	1026-10-25 16:47 J	2096102.10	2096102.20	2096102.31	0.2697	0.0558 *
Saturn	1027-01-18 20:24 J	2096187.27	2096187.35	2096187.44	0.0290	0.0218
Jupiter	1027-04-17 05:02 J	2096275.60	2096275.71	2096275.83	0.0536	0.0269
Jupiter	1027-07-15 12:43 J	2096364.93	2096365.03	2096365.13	0.0534	0.0332
Mars	1027-10-11 15:21 J	2096453.03	2096453.14	2096453.24	0.1810	0.0708
Mars	1028-11-06 05:02 J	2096844.55	2096844.71	2096844.86	0.1732	0.0679
Mars	1029-09-16 00:57 J	2097158.50	2097158.54	2097158.57	0.1781	0.1697
Venus	1031-05-19 21:21 J	2097769.28	2097769.39	2097769.49	0.3679	0.0515
Jupiter	1033-05-31 12:14 J	2098511.86	2098512.01	2098512.18	0.0492	0.0220
Jupiter	1033-08-29 18:14 J	2098602.21	2098602.26	2098602.33	0.0493	0.0462
Venus	1036-12-02 13:40 J	2099792.97	2099793.07	2099793.17	0.3679	0.0896
Mars	1037-03-03 00:28 J	2099883.45	2099883.52	2099883.60	0.1817	0.1330
Mars	1038-03-29 03:35 J	2100274.49	2100274.65	2100274.82	0.1725	0.0260
Jupiter	1039-02-03 09:07 J	2100585.80	2100585.88	2100585.96	0.0536	0.0415
Mars	1039-02-06 10:48 J	2100588.86	2100588.95	2100589.03	0.1789	0.1139
Jupiter	1039-05-03 17:02 J	2100675.09	2100675.21	2100675.33	0.0534	0.0192
Moon	1039-10-28 09:35 J	2100852.83	2100852.90	2100852.98	0.2696	0.1837
Earth	1039-10-28 10:19 J	2100852.86	2100852.93	2100853.01	0.2698	0.1919 *
Saturn	1040-02-23 16:48 J	2100971.07	2100971.20	2100971.33	0.0273	0.0189
Saturn	1040-05-22 12:28 J	2101059.85	2101060.02	2101060.20	0.0272	0.0045
Pluto	1040-06-26 17:45 J	2101095.17	2101095.24	2101095.34	0.0072	0.0064

Saturn 1040-08-19 08:38 J 2101148.69 2101148.86 2101149.03 0.0271 0.0102

Pluto 1040-09-22 19:55 J 2101183.21 2101183.33 2101183.46 0.0072 0.0052

Saturn 1040-11-16 05:02 J 2101237.64 2101237.71 2101237.78 0.0271 0.0249

Pluto 1040-12-19 21:35 J 2101271.27 2101271.40 2101271.56 0.0072 0.0040

Pluto 1041-03-17 23:45 J 2101359.33 2101359.49 2101359.65 0.0072 0.0028

Pluto 1041-06-14 01:26 J 2101447.39 2101447.56 2101447.74 0.0072 0.0017

Pluto 1041-09-10 03:21 J 2101535.47 2101535.64 2101535.82 0.0072 0.0006

Pluto 1041-12-07 05:16 J 2101623.54 2101623.72 2101623.90 0.0072 0.0006

Pluto 1042-03-05 06:57 J 2101711.62 2101711.79 2101711.97 0.0072 0.0017

Pluto 1042-06-01 08:52 J 2101799.71 2101799.87 2101800.03 0.0072 0.0028

Venus 1042-06-18 05:45 J 2101816.66 2101816.74 2101816.82 0.3681 0.2254

Pluto 1042-08-28 10:33 J 2101887.80 2101887.94 2101888.09 0.0071 0.0039

Pluto 1042-11-24 12:14 J 2101975.89 2101976.01 2101976.14 0.0071 0.0050

Pluto 1043-02-20 13:55 J 2102064.00 2102064.08 2102064.18 0.0071 0.0060

Pluto 1043-05-19 15:50 J 2102152.16 2102152.16 2102152.17 0.0071 0.0071

Jupiter 1045-03-19 10:33 J 2102821.84 2102821.94 2102822.06 0.0491 0.0385

Jupiter 1045-06-17 16:04 J 2102912.03 2102912.17 2102912.32 0.0493 0.0290

Earth 1046-10-21 10:33 J 2103402.86 2103402.94 2103403.01 0.2694 0.1930

Moon 1046-10-21 10:48 J 2103402.87 2103402.95 2103403.03 0.2689 0.1807 *

Mars 1047-08-19 02:24 J 2103704.48 2103704.60 2103704.72 0.1718 0.1172

Venus 1048-01-01 21:50 J 2103840.39 2103840.41 2103840.43 0.3682 0.3593

Mars 1048-06-28 20:24 J 2104019.24 2104019.35 2104019.46 0.1796 0.0562

Neptune 1049-12-04 21:35 J 2104543.40 2104543.40 2104543.43 0.0089 0.0089

Neptune 1050-03-02 23:02 J 2104631.42 2104631.46 2104631.53 0.0089 0.0082

Neptune 1050-05-30 00:57 J 2104719.46 2104719.54 2104719.61 0.0089 0.0074

Neptune 1050-08-26 02:09 J 2104807.51 2104807.59 2104807.69 0.0089 0.0067

Neptune 1050-11-22 03:35 J 2104895.56 2104895.65 2104895.76 0.0089 0.0060

Neptune 1051-02-18 05:02 J 2104983.61 2104983.71 2104983.84 0.0089 0.0053

Jupiter 1051-02-19 20:38 J 2104985.23 2104985.36 2104985.49 0.0535 0.0042

Neptune 1051-05-17 06:57 J 2105071.67 2105071.79 2105071.90 0.0089 0.0045

Neptune 1051-08-13 08:09 J 2105159.72 2105159.84 2105159.97 0.0089 0.0038

Neptune 1051-11-09 09:50 J 2105247.78 2105247.91 2105248.04 0.0089 0.0030

Neptune 1052-02-05 11:16 J 2105335.84 2105335.97 2105336.10 0.0089 0.0023

Neptune 1052-05-03 12:43 J 2105423.90 2105424.03 2105424.17 0.0089 0.0016

Neptune 1052-07-30 14:09 J 2105511.96 2105512.09 2105512.23 0.0089 0.0009

Neptune 1052-10-26 15:35 J 2105600.02 2105600.15 2105600.29 0.0089 0.0003

Neptune 1053-01-22 17:02 J 2105688.08 2105688.21 2105688.35 0.0089 0.0007

Neptune 1053-04-20 18:28 J 2105776.14 2105776.27 2105776.41 0.0089 0.0013

Uranus 1053-05-29 04:33 J 2105814.63 2105814.69 2105814.78 0.0143 0.0131

Neptune 1053-07-17 19:55 J 2105864.20 2105864.33 2105864.47 0.0089 0.0020

Uranus 1053-08-25 12:28 J 2105902.90 2105903.02 2105903.17 0.0143 0.0102

Neptune 1053-10-13 21:21 J 2105952.27 2105952.39 2105952.52 0.0089 0.0027

Uranus 1053-11-21 20:38 J 2105991.21 2105991.36 2105991.53 0.0143 0.0072

Neptune 1054-01-09 22:48 J 2106040.33 2106040.45 2106040.58 0.0089 0.0034

Uranus 1054-02-18 05:02 J 2106079.52 2106079.71 2106079.89 0.0143 0.0042

Neptune 1054-04-08 00:14 J 2106128.40 2106128.51 2106128.64 0.0089 0.0041

Uranus 1054-05-17 12:57 J 2106167.85 2106168.04 2106168.23 0.0143 0.0013

Neptune 1054-07-05 01:40 J 2106216.46 2106216.57 2106216.69 0.0089 0.0048

Uranus 1054-08-13 21:07 J 2106256.19 2106256.38 2106256.57 0.0143 0.0018

Neptune 1054-10-01 03:07 J 2106304.53 2106304.63 2106304.74 0.0089 0.0055

Uranus 1054-11-10 05:16 J 2106344.54 2106344.72 2106344.90 0.0142 0.0048

Neptune 1054-12-28 04:19 J 2106392.60 2106392.68 2106392.79 0.0089 0.0063

Uranus 1055-02-06 13:26 J 2106432.90 2106433.06 2106433.22 0.0142 0.0078

Neptune 1055-03-26 05:45 J 2106480.67 2106480.74 2106480.84 0.0089 0.0070

Uranus 1055-05-05 21:35 J 2106521.28 2106521.40 2106521.53 0.0142 0.0108

Neptune 1055-06-22 07:11 J 2106568.74 2106568.80 2106568.88 0.0089 0.0077

Uranus 1055-08-02 05:45 J 2106609.70 2106609.74 2106609.79 0.0142 0.0138

Saturn 1055-09-15 08:38 J 2106653.78 2106653.86 2106653.96 0.0288 0.0212

Neptune 1055-09-18 08:38 J 2106656.82 2106656.86 2106656.91 0.0089 0.0084

Saturn 1055-12-12 21:21 J 2106742.26 2106742.39 2106742.53 0.0289 0.0081

Saturn	1056-03-10 10:04 J	2106830.79	2106830.92	2106831.05	0.0289	0.0050
Moon	1056-04-21 16:04 J	2106873.01	2106873.17	2106873.32	0.2642	0.0079
Earth	1056-04-21 17:16 J	2106873.06	2106873.22	2106873.38	0.2637	0.0027 *
Saturn	1056-06-06 22:19 J	2106919.33	2106919.43	2106919.54	0.0290	0.0181
Jupiter	1057-04-05 14:09 J	2107221.92	2107222.09	2107222.27	0.0493	0.0120
Mars	1057-11-19 06:00 J	2107449.63	2107449.75	2107449.86	0.1803	0.0081
Earth	1059-10-24 04:04 J	2108153.56	2108153.67	2108153.78	0.2695	0.0541
Moon	1059-10-24 04:04 J	2108153.57	2108153.67	2108153.78	0.2689	0.0591 *
Jupiter	1062-12-09 00:14 J	2109295.38	2109295.51	2109295.63	0.0535	0.0115
Jupiter	1063-03-08 07:26 J	2109384.76	2109384.81	2109384.87	0.0533	0.0478
Mars	1067-04-11 15:21 J	2110880.03	2110880.14	2110880.25	0.1810	0.0639
Mars	1068-05-07 05:45 J	2111271.59	2111271.74	2111271.89	0.1732	0.0781
Jupiter	1069-01-22 12:43 J	2111531.85	2111532.03	2111532.21	0.0492	0.0047
Mars	1069-03-17 00:43 J	2111585.52	2111585.53	2111585.55	0.1782	0.1755
Saturn	1069-07-12 17:31 J	2111703.13	2111703.23	2111703.34	0.0273	0.0223
Saturn	1069-10-09 13:26 J	2111791.89	2111792.06	2111792.23	0.0272	0.0078
Saturn	1070-01-06 09:21 J	2111880.72	2111880.89	2111881.07	0.0271	0.0068
Saturn	1070-04-05 05:45 J	2111969.63	2111969.74	2111969.85	0.0271	0.0215
Moon	1072-10-25 21:07 J	2112904.28	2112904.38	2112904.48	0.2692	0.0818
Earth	1072-10-25 21:35 J	2112904.30	2112904.40	2112904.51	0.2697	0.0837 *
Venus	1072-11-25 09:50 J	2112934.79	2112934.91	2112935.02	0.3693	0.2250
Jupiter	1074-09-27 02:52 J	2113605.51	2113605.62	2113605.74	0.0536	0.0281
Jupiter	1074-12-25 10:33 J	2113694.84	2113694.94	2113695.05	0.0534	0.0321
Mars	1076-09-01 00:28 J	2114310.44	2114310.52	2114310.61	0.1817	0.1269
Venus	1076-11-24 10:04 J	2114394.85	2114394.92	2114394.98	0.3677	0.2890
Mars	1077-09-27 04:04 J	2114701.51	2114701.67	2114701.84	0.1725	0.0177
Venus	1078-06-11 15:07 J	2114959.00	2114959.13	2114959.27	0.3691	0.1237
Mars	1078-08-07 10:48 J	2115015.87	2115015.95	2115016.03	0.1789	0.1200
Jupiter	1080-11-10 10:33 J	2115841.79	2115841.94	2115842.11	0.0492	0.0215
Jupiter	1081-02-08 16:33 J	2115932.14	2115932.19	2115932.25	0.0493	0.0467

Venus	1082-06-10 02:38 J	2116418.51	2116418.61	2116418.70	0.3678	0.1458
Saturn	1085-02-01 12:28 J	2117385.95	2117386.02	2117386.10	0.0287	0.0232
Saturn	1085-05-01 01:11 J	2117474.43	2117474.55	2117474.68	0.0288	0.0101
Saturn	1085-07-28 13:55 J	2117562.94	2117563.08	2117563.21	0.0289	0.0030
Saturn	1085-10-25 02:09 J	2117651.48	2117651.59	2117651.71	0.0289	0.0159
Moon	1085-10-28 14:24 J	2117655.04	2117655.10	2117655.17	0.2698	0.2074
Earth	1085-10-28 15:07 J	2117655.07	2117655.13	2117655.19	0.2698	0.2202 *
Saturn	1086-01-21 14:38 J	2117740.10	2117740.11	2117740.12	0.0290	0.0287
Jupiter	1086-07-16 06:28 J	2117915.70	2117915.77	2117915.85	0.0536	0.0433
Jupiter	1086-10-13 14:38 J	2118004.99	2118005.11	2118005.23	0.0535	0.0175
Mars	1087-02-17 03:07 J	2118131.51	2118131.63	2118131.76	0.1718	0.1079
Venus	1087-12-24 18:57 J	2118442.18	2118442.29	2118442.40	0.3679	0.0038
Mars	1087-12-28 20:24 J	2118446.24	2118446.35	2118446.46	0.1795	0.0621
Moon	1089-04-19 14:52 J	2118924.06	2118924.12	2118924.17	0.2640	0.2474
Earth	1089-04-19 16:19 J	2118924.11	2118924.18	2118924.26	0.2638	0.2302 *
Jupiter	1092-08-29 08:09 J	2120151.73	2120151.84	2120151.94	0.0491	0.0392
Earth	1092-10-21 15:21 J	2120205.05	2120205.14	2120205.22	0.2694	0.1643
Moon	1092-10-21 15:35 J	2120205.07	2120205.15	2120205.24	0.2688	0.1617 *
Jupiter	1092-11-27 13:26 J	2120241.91	2120242.06	2120242.21	0.0493	0.0281
Venus	1093-07-09 11:16 J	2120465.87	2120465.97	2120466.07	0.3680	0.1345
Uranus	1096-08-27 18:43 J	2121611.27	2121611.28	2121611.30	0.0135	0.0134
Uranus	1096-11-23 21:50 J	2121699.35	2121699.41	2121699.48	0.0135	0.0116
Uranus	1097-02-20 01:11 J	2121787.46	2121787.55	2121787.64	0.0135	0.0099
Uranus	1097-05-19 04:19 J	2121875.57	2121875.68	2121875.79	0.0135	0.0081
Mars	1097-05-20 06:00 J	2121876.63	2121876.75	2121876.86	0.1803	0.0035
Uranus	1097-08-15 07:26 J	2121963.70	2121963.81	2121963.93	0.0135	0.0063
Uranus	1097-11-11 10:33 J	2122051.82	2122051.94	2122052.07	0.0135	0.0045
Uranus	1098-02-07 13:55 J	2122139.95	2122140.08	2122140.21	0.0136	0.0028
Uranus	1098-05-06 17:02 J	2122228.08	2122228.21	2122228.34	0.0136	0.0010
Jupiter	1098-08-01 18:43 J	2122315.15	2122315.28	2122315.41	0.0535	0.0033

Uranus	1098-08-02 20:09 J	2122316.21	2122316.34	2122316.47	0.0136	0.0008
Uranus	1098-10-29 23:16 J	2122404.34	2122404.47	2122404.60	0.0136	0.0026
Saturn	1098-11-29 18:14 J	2122435.21	2122435.26	2122435.33	0.0273	0.0255
Venus	1099-01-23 03:21 J	2122489.57	2122489.64	2122489.71	0.3681	0.2702
Uranus	1099-01-26 02:24 J	2122492.48	2122492.60	2122492.73	0.0136	0.0044
Saturn	1099-02-26 14:09 J	2122523.93	2122524.09	2122524.25	0.0272	0.0111
Uranus	1099-04-24 05:31 J	2122580.61	2122580.73	2122580.85	0.0136	0.0061
Saturn	1099-05-26 10:04 J	2122612.74	2122612.92	2122613.10	0.0272	0.0035
Uranus	1099-07-21 08:38 J	2122668.76	2122668.86	2122668.97	0.0136	0.0079
Saturn	1099-08-23 06:14 J	2122701.63	2122701.76	2122701.90	0.0271	0.0181
Uranus	1099-10-17 11:45 J	2122756.90	2122756.99	2122757.08	0.0136	0.0097
Uranus	1100-01-13 14:52 J	2122845.05	2122845.12	2122845.19	0.0136	0.0114
Uranus	1100-04-10 17:45 J	2122933.22	2122933.24	2122933.28	0.0136	0.0132
Moon	1102-04-22 22:33 J	2123675.29	2123675.44	2123675.60	0.2642	0.0346
Earth	1102-04-23 00:00 J	2123675.34	2123675.50	2123675.65	0.2637	0.0582 *
Jupiter	1104-09-15 11:31 J	2124551.80	2124551.98	2124552.15	0.0492	0.0110
Moon	1105-10-24 08:52 J	2124955.76	2124955.87	2124955.97	0.2689	0.0248
Earth	1105-10-24 08:52 J	2124955.76	2124955.87	2124955.98	0.2696	0.0257 *
Mars	1106-10-10 15:21 J	2125307.03	2125307.14	2125307.25	0.1810	0.0583
Mars	1107-11-06 06:28 J	2125698.63	2125698.77	2125698.92	0.1732	0.0875
Jupiter	1110-05-20 22:19 J	2126625.31	2126625.43	2126625.56	0.0535	0.0119
Jupiter	1110-08-18 05:45 J	2126714.68	2126714.74	2126714.80	0.0533	0.0474
Saturn	1114-06-21 14:09 J	2128118.05	2128118.09	2128118.13	0.0287	0.0272
Saturn	1114-09-18 02:52 J	2128206.50	2128206.62	2128206.74	0.0288	0.0141
Saturn	1114-12-15 15:35 J	2128295.01	2128295.15	2128295.28	0.0289	0.0012
Saturn	1115-03-14 04:04 J	2128383.55	2128383.67	2128383.79	0.0290	0.0120
Saturn	1115-06-10 16:19 J	2128472.12	2128472.18	2128472.25	0.0290	0.0249
Mars	1116-03-02 00:28 J	2128737.44	2128737.52	2128737.61	0.1817	0.1208
Jupiter	1116-07-04 09:35 J	2128861.72	2128861.90	2128862.08	0.0492	0.0058
Mars	1117-03-28 05:02 J	2129128.55	2129128.71	2129128.88	0.1725	0.0073

Mars 1118-02-05 10:48 J 2129442.86 2129442.95 2129443.03 0.1788 0.1256

Moon 1118-10-27 01:55 J 2129706.48 2129706.58 2129706.68 0.2692 0.0980

Earth 1118-10-27 02:24 J 2129706.50 2129706.60 2129706.70 0.2697 0.1120 *

Jupiter 1122-03-09 01:40 J 2130935.46 2130935.57 2130935.69 0.0535 0.0276

Jupiter 1122-06-06 09:21 J 2131024.79 2131024.89 2131024.99 0.0534 0.0325

Moon 1125-10-20 03:07 J 2132256.61 2132256.63 2132256.64 0.2690 0.2639

Mars 1126-08-18 03:50 J 2132558.52 2132558.66 2132558.79 0.1718 0.0993

Mars 1127-06-28 20:24 J 2132873.24 2132873.35 2132873.46 0.1796 0.0682

Jupiter 1128-04-22 08:09 J 2133171.68 2133171.84 2133172.00 0.0492 0.0220

Saturn 1128-07-15 14:38 J 2133255.97 2133256.11 2133256.27 0.0272 0.0147

Jupiter 1128-07-21 14:09 J 2133262.03 2133262.09 2133262.15 0.0493 0.0461

Saturn 1128-10-12 10:48 J 2133344.77 2133344.95 2133345.13 0.0272 0.0005

Saturn 1129-01-09 06:43 J 2133433.63 2133433.78 2133433.94 0.0271 0.0145

Venus 1129-07-02 10:48 J 2133607.81 2133607.95 2133608.09 0.3692 0.1184

Moon 1131-10-29 19:11 J 2134457.26 2134457.30 2134457.35 0.2700 0.2439

Earth 1131-10-29 19:55 J 2134457.29 2134457.33 2134457.37 0.2698 0.2479 *

Neptune 1132-11-16 09:07 J 2134840.82 2134840.88 2134840.97 0.0088 0.0080

Neptune 1133-02-12 12:14 J 2134928.92 2134929.01 2134929.14 0.0088 0.0071

Neptune 1133-05-11 15:21 J 2135017.03 2135017.14 2135017.29 0.0088 0.0062

Venus 1133-07-01 07:40 J 2135067.74 2135067.82 2135067.90 0.3677 0.2411

Neptune 1133-08-07 18:57 J 2135105.14 2135105.29 2135105.44 0.0088 0.0052

Neptune 1133-11-03 22:04 J 2135193.26 2135193.42 2135193.58 0.0088 0.0043

Jupiter 1133-12-26 04:33 J 2135245.62 2135245.69 2135245.76 0.0536 0.0443

Neptune 1134-01-31 01:11 J 2135281.38 2135281.55 2135281.73 0.0088 0.0034

Jupiter 1134-03-25 12:28 J 2135334.90 2135335.02 2135335.15 0.0534 0.0165

Neptune 1134-04-29 04:19 J 2135369.51 2135369.68 2135369.87 0.0088 0.0025

Neptune 1134-07-26 07:26 J 2135457.64 2135457.81 2135458.00 0.0088 0.0016

Neptune 1134-10-22 10:48 J 2135545.77 2135545.95 2135546.14 0.0088 0.0006

Venus 1135-01-16 16:19 J 2135632.07 2135632.18 2135632.30 0.3691 0.2330

Neptune 1135-01-18 14:09 J 2135633.90 2135634.09 2135634.27 0.0088 0.0003

Neptune 1135-04-16 17:16 J 2135722.04 2135722.22 2135722.41 0.0088 0.0012

Moon 1135-04-20 21:35 J 2135726.29 2135726.40 2135726.51 0.2641 0.1917

Earth 1135-04-20 23:16 J 2135726.35 2135726.47 2135726.59 0.2638 0.1735 *

Neptune 1135-07-13 20:24 J 2135810.17 2135810.35 2135810.54 0.0088 0.0022

Neptune 1135-10-09 23:45 J 2135898.32 2135898.49 2135898.67 0.0088 0.0031

Neptune 1136-01-06 02:38 J 2135986.46 2135986.61 2135986.79 0.0088 0.0041

Neptune 1136-04-03 06:14 J 2136074.61 2136074.76 2136074.92 0.0088 0.0050

Neptune 1136-06-30 09:07 J 2136162.76 2136162.88 2136163.04 0.0088 0.0060

Neptune 1136-09-26 12:43 J 2136250.92 2136251.03 2136251.15 0.0088 0.0069

Mars 1136-11-18 06:00 J 2136303.63 2136303.75 2136303.87 0.1802 0.0092

Neptune 1136-12-23 15:35 J 2136339.09 2136339.15 2136339.26 0.0088 0.0079

Uranus 1137-06-18 12:14 J 2136515.92 2136516.01 2136516.11 0.0143 0.0123

Uranus 1137-09-14 19:55 J 2136604.20 2136604.33 2136604.49 0.0143 0.0094

Uranus 1137-12-12 04:19 J 2136692.51 2136692.68 2136692.85 0.0143 0.0064

Uranus 1138-03-10 12:14 J 2136780.83 2136781.01 2136781.20 0.0143 0.0035

Uranus 1138-06-06 20:24 J 2136869.16 2136869.35 2136869.54 0.0143 0.0005

Uranus 1138-09-03 04:33 J 2136957.50 2136957.69 2136957.88 0.0143 0.0025

Earth 1138-10-22 20:09 J 2137007.24 2137007.34 2137007.43 0.2694 0.1356

Moon 1138-10-22 20:24 J 2137007.26 2137007.35 2137007.45 0.2688 0.1261 *

Uranus 1138-11-30 12:43 J 2137045.85 2137046.03 2137046.21 0.0142 0.0055

Venus 1139-01-15 00:14 J 2137091.41 2137091.51 2137091.61 0.3678 0.0974

Uranus 1139-02-26 20:52 J 2137134.22 2137134.37 2137134.53 0.0142 0.0085

Uranus 1139-05-26 05:02 J 2137222.60 2137222.71 2137222.83 0.0142 0.0115

Jupiter 1140-02-09 06:28 J 2137481.66 2137481.77 2137481.88 0.0491 0.0386

Jupiter 1140-05-09 11:45 J 2137571.85 2137571.99 2137572.14 0.0493 0.0287

Saturn 1144-02-05 06:28 J 2138938.66 2138938.77 2138938.88 0.0288 0.0164

Saturn 1144-05-03 19:11 J 2139027.17 2139027.30 2139027.44 0.0289 0.0033

Venus 1144-07-30 16:33 J 2139115.09 2139115.19 2139115.30 0.3679 0.0425

Saturn 1144-07-31 07:40 J 2139115.70 2139115.82 2139115.95 0.0289 0.0097

Saturn 1144-10-27 20:09 J 2139204.26 2139204.34 2139204.42 0.0290 0.0227

Jupiter	1146-01-11 16:19 J	2139645.05	2139645.18	2139645.31	0.0535	0.0016	
Mars	1146-04-10 15:21 J	2139734.03	2139734.14	2139734.25	0.1810	0.0519	
Mars	1147-05-07 07:26 J	2140125.67	2140125.81	2140125.94	0.1733	0.0975	
Moon	1148-04-23 05:31 J	2140477.58	2140477.73	2140477.87	0.2642	0.1082	
Earth	1148-04-23 06:43 J	2140477.63	2140477.78	2140477.92	0.2636	0.1145	*
Venus	1150-02-13 08:52 J	2141138.78	2141138.87	2141138.96	0.3680	0.1796	
Moon	1151-10-25 13:26 J	2141757.95	2141758.06	2141758.17	0.2689	0.0054	
Earth	1151-10-25 13:40 J	2141757.96	2141758.07	2141758.18	0.2696	0.0037	*
Jupiter	1152-02-26 08:38 J	2141881.68	2141881.86	2141882.04	0.0492	0.0101	
Venus	1155-08-30 00:57 J	2143162.49	2143162.54	2143162.59	0.3681	0.3142	
Mars	1155-09-01 00:28 J	2143164.44	2143164.52	2143164.61	0.1817	0.1147	
Mars	1156-09-26 05:45 J	2143555.57	2143555.74	2143555.91	0.1725	0.0023	
Mars	1157-08-06 10:48 J	2143869.87	2143869.95	2143870.02	0.1788	0.1315	
Jupiter	1157-10-30 20:24 J	2143955.23	2143955.35	2143955.48	0.0535	0.0128	
Saturn	1157-12-02 16:04 J	2143988.04	2143988.17	2143988.31	0.0273	0.0175	
Jupiter	1158-01-28 03:50 J	2144044.60	2144044.66	2144044.72	0.0534	0.0467	
Saturn	1158-03-01 12:00 J	2144076.82	2144077.00	2144077.18	0.0272	0.0031	
Saturn	1158-05-29 07:55 J	2144165.67	2144165.83	2144166.00	0.0271	0.0115	
Saturn	1158-08-26 04:04 J	2144254.63	2144254.67	2144254.72	0.0271	0.0262	
Jupiter	1163-12-15 06:57 J	2146191.61	2146191.79	2146191.96	0.0492	0.0068	
Moon	1164-10-27 06:43 J	2146508.68	2146508.78	2146508.87	0.2694	0.1377	
Earth	1164-10-27 07:11 J	2146508.71	2146508.80	2146508.89	0.2697	0.1399	*
Mars	1165-01-21 09:35 J	2146594.88	2146594.90	2146594.92	0.1824	0.1787	
Mars	1166-02-16 04:33 J	2146985.55	2146985.69	2146985.83	0.1719	0.0896	
Mars	1166-12-27 20:24 J	2147300.25	2147300.35	2147300.46	0.1795	0.0741	
Jupiter	1169-08-19 00:00 J	2148265.40	2148265.50	2148265.62	0.0535	0.0280	
Jupiter	1169-11-16 07:40 J	2148354.72	2148354.82	2148354.93	0.0534	0.0322	
Earth	1171-10-21 07:11 J	2149058.76	2149058.80	2149058.84	0.2693	0.2459	
Moon	1171-10-21 07:55 J	2149058.78	2149058.83	2149058.88	0.2689	0.2391	*
Saturn	1173-06-24 08:09 J	2149670.74	2149670.84	2149670.93	0.0288	0.0205	

Saturn	1173-09-20 20:38	J	2149759.23	2149759.36	2149759.50	0.0289	0.0075
Saturn	1173-12-18 09:21	J	2149847.76	2149847.89	2149848.02	0.0289	0.0056
Saturn	1174-03-16 21:50	J	2149936.31	2149936.41	2149936.51	0.0290	0.0186
Jupiter	1175-10-03 05:02	J	2150501.56	2150501.71	2150501.87	0.0492	0.0233
Jupiter	1176-01-01 11:02	J	2150591.89	2150591.96	2150592.04	0.0493	0.0449
Mars	1176-05-19 06:00	J	2150730.63	2150730.75	2150730.86	0.1803	0.0151
Moon	1177-10-30 00:00	J	2151259.48	2151259.50	2151259.53	0.2701	0.2605
Venus	1180-07-23 06:57	J	2152256.74	2152256.79	2152256.83	0.3693	0.3488
Uranus	1180-09-17 01:26	J	2152312.54	2152312.56	2152312.60	0.0135	0.0131
Uranus	1180-12-14 04:48	J	2152400.63	2152400.70	2152400.77	0.0135	0.0113
Uranus	1181-03-12 07:55	J	2152488.74	2152488.83	2152488.93	0.0135	0.0096
Moon	1181-04-21 04:19	J	2152528.55	2152528.68	2152528.81	0.2642	0.1412
Earth	1181-04-21 05:45	J	2152528.60	2152528.74	2152528.89	0.2638	0.1178 *
Jupiter	1181-06-07 03:21	J	2152575.57	2152575.64	2152575.72	0.0536	0.0436
Uranus	1181-06-08 11:02	J	2152576.86	2152576.96	2152577.08	0.0135	0.0078
Jupiter	1181-09-04 11:31	J	2152664.85	2152664.98	2152665.10	0.0534	0.0172
Uranus	1181-09-04 14:24	J	2152664.98	2152665.10	2152665.22	0.0135	0.0060 *
Uranus	1181-12-01 17:31	J	2152753.11	2152753.23	2152753.36	0.0135	0.0042
Uranus	1182-02-27 20:38	J	2152841.23	2152841.36	2152841.49	0.0136	0.0025
Uranus	1182-05-26 23:45	J	2152929.36	2152929.49	2152929.63	0.0136	0.0008
Uranus	1182-08-23 02:52	J	2153017.49	2153017.62	2153017.76	0.0136	0.0012
Uranus	1182-11-19 06:00	J	2153105.63	2153105.75	2153105.89	0.0136	0.0029
Uranus	1183-02-15 09:07	J	2153193.76	2153193.88	2153194.01	0.0136	0.0047
Uranus	1183-05-14 12:14	J	2153281.90	2153282.01	2153282.13	0.0136	0.0064
Uranus	1183-08-10 15:21	J	2153370.04	2153370.14	2153370.25	0.0136	0.0082
Uranus	1183-11-06 18:28	J	2153458.19	2153458.27	2153458.37	0.0136	0.0100
Uranus	1184-02-02 21:35	J	2153546.34	2153546.40	2153546.47	0.0136	0.0117
Uranus	1184-05-01 00:43	J	2153634.52	2153634.53	2153634.55	0.0136	0.0135
Venus	1184-07-22 12:43	J	2153716.99	2153717.03	2153717.07	0.3677	0.3382
Earth	1184-10-23 00:57	J	2153809.44	2153809.54	2153809.64	0.2694	0.1067

Moon	1184-10-23 01:11 J	2153809.45	2153809.55	2153809.65	0.2688	0.1033 *
Mars	1185-10-09 15:21 J	2154161.03	2154161.14	2154161.25	0.1810	0.0457
Venus	1186-02-06 11:45 J	2154280.85	2154280.99	2154281.14	0.3692	0.0171
Mars	1186-11-05 07:55 J	2154552.70	2154552.83	2154552.97	0.1733	0.1067
Saturn	1187-04-21 16:04 J	2154720.07	2154720.17	2154720.29	0.0273	0.0214
Saturn	1187-07-19 12:00 J	2154808.83	2154809.00	2154809.18	0.0272	0.0069
Jupiter	1187-07-22 03:50 J	2154811.56	2154811.66	2154811.77	0.0491	0.0392
Saturn	1187-10-16 07:55 J	2154897.66	2154897.83	2154898.01	0.0271	0.0076
Jupiter	1187-10-20 09:21 J	2154901.74	2154901.89	2154902.04	0.0493	0.0281
Saturn	1188-01-13 04:04 J	2154986.57	2154986.67	2154986.78	0.0271	0.0222
Venus	1190-02-05 05:31 J	2155740.64	2155740.73	2155740.82	0.3678	0.1933
Venus	1191-08-23 17:45 J	2156305.19	2156305.24	2156305.29	0.3691	0.3477
Jupiter	1193-06-23 14:24 J	2156974.97	2156975.10	2156975.23	0.0535	0.0013
Moon	1194-04-24 12:43 J	2157279.90	2157280.03	2157280.15	0.2642	0.1597
Earth	1194-04-24 13:26 J	2157279.94	2157280.06	2157280.18	0.2636	0.1722 *
Mars	1195-03-02 00:43 J	2157591.44	2157591.53	2157591.62	0.1816	0.1080
Venus	1195-08-21 21:50 J	2157764.31	2157764.41	2157764.52	0.3678	0.0518
Mars	1196-03-27 06:14 J	2157982.60	2157982.76	2157982.93	0.1726	0.0118
Mars	1197-02-04 10:48 J	2158296.88	2158296.95	2158297.02	0.1788	0.1378
Moon	1197-10-25 18:14 J	2158560.15	2158560.26	2158560.37	0.2689	0.0311
Earth	1197-10-25 18:28 J	2158560.16	2158560.27	2158560.38	0.2696	0.0315 *
Jupiter	1199-08-08 07:11 J	2159211.62	2159211.80	2159211.98	0.0492	0.0109
Venus	1201-03-06 14:09 J	2159787.99	2159788.09	2159788.20	0.3679	0.0894
Pluto	1202-06-06 08:38 J	2160244.85	2160244.86	2160244.89	0.0071	0.0070
Pluto	1202-09-02 09:35 J	2160332.84	2160332.90	2160332.98	0.0071	0.0062
Saturn	1202-11-11 11:16 J	2160402.90	2160402.97	2160403.06	0.0288	0.0230
Pluto	1202-11-29 10:33 J	2160420.85	2160420.94	2160421.04	0.0072	0.0053
Saturn	1203-02-08 00:14 J	2160491.38	2160491.51	2160491.64	0.0288	0.0098
Pluto	1203-02-25 11:31 J	2160508.87	2160508.98	2160509.09	0.0072	0.0044
Saturn	1203-05-07 12:43 J	2160579.90	2160580.03	2160580.17	0.0289	0.0034

Pluto 1203-05-24 12:14 J 2160596.90 2160597.01 2160597.14 0.0072 0.0036

Saturn 1203-08-04 01:11 J 2160668.44 2160668.55 2160668.67 0.0290 0.0162

Pluto 1203-08-20 13:11 J 2160684.93 2160685.05 2160685.19 0.0072 0.0027

Pluto 1203-11-16 14:09 J 2160772.96 2160773.09 2160773.23 0.0072 0.0018

Pluto 1204-02-12 15:07 J 2160860.99 2160861.13 2160861.27 0.0072 0.0009

Pluto 1204-05-10 16:04 J 2160949.03 2160949.17 2160949.31 0.0072 0.0001

Mars 1204-07-22 09:35 J 2161021.87 2161021.90 2161021.94 0.1824 0.1723

Pluto 1204-08-06 17:02 J 2161037.07 2161037.21 2161037.35 0.0072 0.0010

Pluto 1204-11-02 17:45 J 2161125.11 2161125.24 2161125.39 0.0072 0.0020

Pluto 1205-01-29 18:57 J 2161213.16 2161213.29 2161213.42 0.0073 0.0029

Jupiter 1205-04-11 18:14 J 2161285.13 2161285.26 2161285.38 0.0535 0.0143

Pluto 1205-04-27 19:55 J 2161301.21 2161301.33 2161301.45 0.0073 0.0038

Jupiter 1205-07-10 01:40 J 2161374.50 2161374.57 2161374.63 0.0534 0.0454

Pluto 1205-07-24 20:38 J 2161389.26 2161389.36 2161389.48 0.0073 0.0048

Mars 1205-08-17 05:16 J 2161412.58 2161412.72 2161412.87 0.1719 0.0799

Pluto 1205-10-20 21:50 J 2161477.32 2161477.41 2161477.50 0.0073 0.0057

Pluto 1206-01-16 22:33 J 2161565.40 2161565.44 2161565.51 0.0073 0.0067

Mars 1206-06-27 20:24 J 2161727.25 2161727.35 2161727.45 0.1795 0.0800

Venus 1206-09-20 06:28 J 2161811.69 2161811.77 2161811.85 0.3680 0.2246

Moon 1210-10-28 11:16 J 2163310.89 2163310.97 2163311.06 0.2696 0.1542

Earth 1210-10-28 12:00 J 2163310.92 2163311.00 2163311.08 0.2697 0.1685 *

Jupiter 1211-05-27 04:04 J 2163521.50 2163521.67 2163521.85 0.0492 0.0075

Venus 1212-04-04 22:33 J 2163835.42 2163835.44 2163835.46 0.3681 0.3582

Neptune 1214-08-31 21:21 J 2164714.37 2164714.39 2164714.45 0.0089 0.0086

Neptune 1214-11-27 23:16 J 2164802.41 2164802.47 2164802.54 0.0089 0.0078

Mars 1215-01-07 04:33 J 2164842.67 2164842.69 2164842.72 0.1712 0.1686

Neptune 1215-02-24 00:43 J 2164890.45 2164890.53 2164890.62 0.0089 0.0070

Neptune 1215-05-23 02:09 J 2164978.50 2164978.59 2164978.69 0.0089 0.0063

Neptune 1215-08-19 03:50 J 2165066.55 2165066.66 2165066.77 0.0089 0.0056

Neptune 1215-11-15 05:16 J 2165154.61 2165154.72 2165154.84 0.0089 0.0049

Mars 1215-11-18 06:00 J 2165157.63 2165157.75 2165157.86 0.1802 0.0212

Neptune 1216-02-11 06:43 J 2165242.66 2165242.78 2165242.90 0.0089 0.0041

Neptune 1216-05-09 08:09 J 2165330.72 2165330.84 2165330.97 0.0089 0.0034

Neptune 1216-08-05 09:35 J 2165418.78 2165418.90 2165419.04 0.0089 0.0027

Saturn 1216-09-07 17:31 J 2165452.16 2165452.23 2165452.32 0.0273 0.0241

Neptune 1216-11-01 11:16 J 2165506.83 2165506.97 2165507.10 0.0089 0.0020

Saturn 1216-12-05 13:26 J 2165540.89 2165541.06 2165541.23 0.0272 0.0097

Neptune 1217-01-28 12:43 J 2165594.89 2165595.03 2165595.16 0.0089 0.0012

Jupiter 1217-01-28 22:04 J 2165595.31 2165595.42 2165595.53 0.0536 0.0288

Saturn 1217-03-04 09:21 J 2165629.71 2165629.89 2165630.07 0.0272 0.0048

Neptune 1217-04-26 14:09 J 2165682.95 2165683.09 2165683.23 0.0089 0.0005

Jupiter 1217-04-28 06:00 J 2165684.64 2165684.75 2165684.85 0.0534 0.0316

Saturn 1217-06-01 05:16 J 2165718.60 2165718.72 2165718.85 0.0271 0.0194

Neptune 1217-07-23 15:35 J 2165771.01 2165771.15 2165771.29 0.0089 0.0002

Neptune 1217-10-19 17:02 J 2165859.08 2165859.21 2165859.35 0.0089 0.0009

Earth 1217-10-21 12:00 J 2165860.94 2165861.00 2165861.06 0.2693 0.2172

Moon 1217-10-21 12:43 J 2165860.96 2165861.03 2165861.10 0.2689 0.2038 *

Neptune 1218-01-15 18:28 J 2165947.14 2165947.27 2165947.41 0.0089 0.0016

Neptune 1218-04-13 19:55 J 2166035.20 2166035.33 2166035.46 0.0089 0.0023

Neptune 1218-07-10 21:21 J 2166123.27 2166123.39 2166123.52 0.0089 0.0031

Neptune 1218-10-06 22:48 J 2166211.33 2166211.45 2166211.58 0.0089 0.0038

Neptune 1219-01-03 00:14 J 2166299.40 2166299.51 2166299.63 0.0089 0.0045

Neptune 1219-04-01 01:40 J 2166387.46 2166387.57 2166387.68 0.0089 0.0052

Neptune 1219-06-28 03:07 J 2166475.53 2166475.63 2166475.73 0.0089 0.0059

Neptune 1219-09-24 04:33 J 2166563.60 2166563.69 2166563.78 0.0089 0.0066

Neptune 1219-12-21 06:00 J 2166651.67 2166651.75 2166651.83 0.0089 0.0073

Neptune 1220-03-18 07:11 J 2166739.75 2166739.80 2166739.87 0.0089 0.0080

Neptune 1220-06-14 08:38 J 2166827.84 2166827.86 2166827.90 0.0089 0.0087

Uranus 1221-07-08 18:57 J 2167217.20 2167217.29 2167217.41 0.0143 0.0118

Uranus 1221-10-05 03:21 J 2167305.49 2167305.64 2167305.79 0.0143 0.0087

Uranus	1222-01-01 11:16 J	2167393.80	2167393.97	2167394.15	0.0143	0.0058
Uranus	1222-03-30 19:26 J	2167482.12	2167482.31	2167482.50	0.0143	0.0028
Uranus	1222-06-27 03:35 J	2167570.46	2167570.65	2167570.84	0.0143	0.0002
Uranus	1222-09-23 11:31 J	2167658.80	2167658.98	2167659.17	0.0143	0.0033
Uranus	1222-12-20 19:40 J	2167747.15	2167747.32	2167747.50	0.0142	0.0062
Jupiter	1223-03-15 02:38 J	2167831.45	2167831.61	2167831.76	0.0492	0.0239
Uranus	1223-03-19 03:50 J	2167835.52	2167835.66	2167835.81	0.0142	0.0092
Jupiter	1223-06-13 08:24 J	2167921.77	2167921.85	2167921.93	0.0493	0.0440
Uranus	1223-06-15 12:00 J	2167923.91	2167924.00	2167924.11	0.0142	0.0122
Mars	1225-04-09 15:21 J	2168588.03	2168588.14	2168588.25	0.1809	0.0398
Mars	1226-05-06 08:52 J	2168979.75	2168979.87	2168979.99	0.1733	0.1168
Moon	1227-04-22 11:02 J	2169330.81	2169330.96	2169331.11	0.2641	0.0748
Earth	1227-04-22 12:43 J	2169330.87	2169331.03	2169331.18	0.2638	0.0611 *
Jupiter	1228-11-17 01:55 J	2169905.50	2169905.58	2169905.65	0.0536	0.0438
Jupiter	1229-02-14 09:50 J	2169994.79	2169994.91	2169995.03	0.0534	0.0170
Earth	1230-10-24 05:45 J	2170611.63	2170611.74	2170611.84	0.2694	0.0783
Moon	1230-10-24 05:45 J	2170611.64	2170611.74	2170611.85	0.2688	0.0780 *
Saturn	1232-03-30 12:43 J	2171134.99	2171135.03	2171135.06	0.0287	0.0274
Saturn	1232-06-27 01:26 J	2171223.44	2171223.56	2171223.68	0.0288	0.0143
Saturn	1232-09-23 14:09 J	2171311.95	2171312.09	2171312.22	0.0289	0.0015
Saturn	1232-12-21 02:38 J	2171400.49	2171400.61	2171400.73	0.0290	0.0118
Saturn	1233-03-19 14:52 J	2171489.06	2171489.12	2171489.19	0.0290	0.0247
Mars	1234-08-31 00:43 J	2172018.43	2172018.53	2172018.62	0.1817	0.1023
Jupiter	1235-01-01 01:11 J	2172141.45	2172141.55	2172141.65	0.0491	0.0402
Jupiter	1235-04-01 06:14 J	2172231.62	2172231.76	2172231.92	0.0493	0.0271
Mars	1235-09-26 07:11 J	2172409.64	2172409.80	2172409.97	0.1726	0.0216
Mars	1236-08-05 10:33 J	2172723.88	2172723.94	2172724.01	0.1788	0.1431
Venus	1237-02-27 07:55 J	2172929.72	2172929.83	2172929.93	0.3693	0.2452
Moon	1240-04-24 19:40 J	2174082.24	2174082.32	2174082.40	0.2643	0.2247
Earth	1240-04-24 20:09 J	2174082.26	2174082.34	2174082.42	0.2636	0.2291 *

Jupiter	1240-12-03 13:26 J	2174304.93	2174305.06	2174305.19	0.0535	0.0021
Venus	1241-02-26 10:33 J	2174389.88	2174389.94	2174390.00	0.3677	0.2892
Venus	1242-09-13 12:57 J	2174953.90	2174954.04	2174954.18	0.3691	0.0976
Moon	1243-10-26 23:02 J	2175362.35	2175362.46	2175362.56	0.2690	0.0533
Earth	1243-10-26 23:16 J	2175362.36	2175362.47	2175362.58	0.2696	0.0598 *
Mars	1244-01-21 09:50 J	2175448.86	2175448.91	2175448.96	0.1823	0.1652
Mars	1245-02-15 06:00 J	2175839.60	2175839.75	2175839.90	0.1719	0.0715
Mars	1245-12-26 20:24 J	2176154.25	2176154.35	2176154.45	0.1795	0.0864
Saturn	1246-04-24 12:57 J	2176272.89	2176273.04	2176273.20	0.0272	0.0140
Saturn	1246-07-22 08:52 J	2176361.69	2176361.87	2176362.05	0.0272	0.0007
Venus	1246-09-12 03:07 J	2176413.53	2176413.63	2176413.73	0.3678	0.1450
Saturn	1246-10-19 04:48 J	2176450.56	2176450.70	2176450.86	0.0271	0.0151
Jupiter	1247-01-18 04:48 J	2176541.53	2176541.70	2176541.88	0.0492	0.0106
Venus	1252-03-27 19:40 J	2178437.21	2178437.32	2178437.42	0.3679	0.0101
Jupiter	1252-09-21 16:33 J	2178615.06	2178615.19	2178615.31	0.0535	0.0145
Jupiter	1252-12-20 00:00 J	2178704.43	2178704.50	2178704.57	0.0533	0.0450
Mars	1254-07-08 05:16 J	2179269.66	2179269.72	2179269.77	0.1712	0.1597
Mars	1255-05-19 06:00 J	2179584.64	2179584.75	2179584.87	0.1802	0.0278
Moon	1256-10-28 16:04 J	2180113.09	2180113.17	2180113.24	0.2697	0.1907
Earth	1256-10-28 16:48 J	2180113.13	2180113.20	2180113.27	0.2697	0.1968 *
Venus	1257-10-11 12:00 J	2180460.90	2180461.00	2180461.09	0.3680	0.1346
Jupiter	1258-11-06 02:52 J	2180851.45	2180851.62	2180851.80	0.0492	0.0065
Saturn	1261-11-14 04:19 J	2181955.58	2181955.68	2181955.80	0.0288	0.0170
Saturn	1262-02-10 17:16 J	2182044.08	2182044.22	2182044.35	0.0289	0.0040
Saturn	1262-05-10 05:45 J	2182132.61	2182132.74	2182132.87	0.0289	0.0091
Saturn	1262-08-06 18:14 J	2182221.17	2182221.26	2182221.34	0.0290	0.0221
Venus	1263-04-27 04:04 J	2182484.60	2182484.67	2182484.74	0.3681	0.2697
Earth	1263-10-22 16:48 J	2182663.13	2182663.20	2182663.28	0.2693	0.1885
Moon	1263-10-22 17:31 J	2182663.15	2182663.23	2182663.30	0.2689	0.1846 *
Jupiter	1264-07-10 20:09 J	2182925.23	2182925.34	2182925.45	0.0536	0.0297

Uranus	1264-10-07 08:24 J	2183013.82	2183013.85	2183013.90	0.0135	0.0128
Jupiter	1264-10-08 03:50 J	2183014.56	2183014.66	2183014.77	0.0534	0.0305
Mars	1264-10-08 15:21 J	2183015.03	2183015.14	2183015.25	0.1809	0.0337
Uranus	1265-01-03 11:45 J	2183101.92	2183101.99	2183102.07	0.0135	0.0110
Uranus	1265-04-01 14:52 J	2183190.03	2183190.12	2183190.22	0.0135	0.0092
Uranus	1265-06-28 18:14 J	2183278.15	2183278.26	2183278.37	0.0135	0.0074
Uranus	1265-09-24 21:21 J	2183366.27	2183366.39	2183366.51	0.0135	0.0057
Mars	1265-11-04 09:35 J	2183406.79	2183406.90	2183407.01	0.1733	0.1265
Uranus	1265-12-22 00:28 J	2183454.40	2183454.52	2183454.65	0.0135	0.0039
Uranus	1266-03-20 03:35 J	2183542.52	2183542.65	2183542.79	0.0135	0.0022
Uranus	1266-06-16 06:57 J	2183630.65	2183630.79	2183630.92	0.0136	0.0005
Uranus	1266-09-12 10:04 J	2183718.79	2183718.92	2183719.05	0.0136	0.0015
Uranus	1266-12-09 13:11 J	2183806.92	2183807.05	2183807.18	0.0136	0.0032
Uranus	1267-03-07 16:04 J	2183895.06	2183895.17	2183895.30	0.0136	0.0050
Uranus	1267-06-03 19:26 J	2183983.19	2183983.31	2183983.42	0.0136	0.0067
Uranus	1267-08-30 22:19 J	2184071.34	2184071.43	2184071.54	0.0136	0.0085
Uranus	1267-11-27 01:40 J	2184159.48	2184159.57	2184159.65	0.0136	0.0103
Uranus	1268-02-23 04:33 J	2184247.64	2184247.69	2184247.76	0.0136	0.0120
Jupiter	1270-08-25 00:14 J	2185161.36	2185161.51	2185161.67	0.0491	0.0243
Jupiter	1270-11-23 06:00 J	2185251.66	2185251.75	2185251.83	0.0493	0.0435
Moon	1273-04-22 17:45 J	2186133.09	2186133.24	2186133.40	0.2641	0.0303
Earth	1273-04-22 19:11 J	2186133.14	2186133.30	2186133.46	0.2638	0.0058 *
Mars	1274-03-01 00:43 J	2186445.43	2186445.53	2186445.63	0.1816	0.0954
Mars	1275-03-27 07:55 J	2186836.67	2186836.83	2186837.00	0.1726	0.0316
Saturn	1275-09-11 14:24 J	2187004.97	2187005.10	2187005.24	0.0273	0.0167
Saturn	1275-12-09 10:19 J	2187093.75	2187093.93	2187094.11	0.0272	0.0024
Mars	1276-02-04 10:48 J	2187150.89	2187150.95	2187151.01	0.1788	0.1493
Saturn	1276-03-07 06:00 J	2187182.60	2187182.75	2187182.92	0.0271	0.0123
Jupiter	1276-04-29 00:00 J	2187235.43	2187235.50	2187235.57	0.0536	0.0445
Saturn	1276-06-04 02:24 J	2187271.58	2187271.60	2187271.62	0.0271	0.0268

Jupiter	**1276-07-27 08:09**	**J**	**2187324.72**	**2187324.84**	**2187324.96**	**0.0535**	**0.0165**
Moon	**1276-10-24 10:33**	**J**	**2187413.83**	**2187413.94**	**2187414.04**	**0.2687**	**0.0468**
Earth	**1276-10-24 10:33**	**J**	**2187413.83**	**2187413.94**	**2187414.04**	**0.2695**	**0.0504** *
Jupiter	**1282-06-12 22:48**	**J**	**2189471.35**	**2189471.45**	**2189471.55**	**0.0491**	**0.0405**
Jupiter	**1282-09-11 04:04**	**J**	**2189561.52**	**2189561.67**	**2189561.82**	**0.0492**	**0.0265**
Mars	**1283-07-22 09:35**	**J**	**2189875.85**	**2189875.90**	**2189875.96**	**0.1823**	**0.1601**
Mars	**1284-08-16 06:43**	**J**	**2190266.63**	**2190266.78**	**2190266.94**	**0.1719**	**0.0616**
Mars	**1285-06-26 20:24**	**J**	**2190581.25**	**2190581.35**	**2190581.45**	**0.1795**	**0.0920**
Pluto	**1288-01-29 02:38**	**J**	**2191527.54**	**2191527.61**	**2191527.72**	**0.0072**	**0.0063**
Pluto	**1288-04-26 04:48**	**J**	**2191615.59**	**2191615.70**	**2191615.84**	**0.0072**	**0.0051**
Jupiter	**1288-05-15 12:00**	**J**	**2191634.88**	**2191635.00**	**2191635.13**	**0.0535**	**0.0027**
Pluto	**1288-07-23 06:57**	**J**	**2191703.64**	**2191703.79**	**2191703.94**	**0.0072**	**0.0039**
Pluto	**1288-10-19 08:38**	**J**	**2191791.70**	**2191791.86**	**2191792.03**	**0.0072**	**0.0027**
Pluto	**1289-01-15 10:33**	**J**	**2191879.77**	**2191879.94**	**2191880.12**	**0.0072**	**0.0016**
Pluto	**1289-04-13 12:28**	**J**	**2191967.85**	**2191968.02**	**2191968.20**	**0.0072**	**0.0004**
Pluto	**1289-07-10 14:24**	**J**	**2192055.92**	**2192056.10**	**2192056.28**	**0.0072**	**0.0007**
Pluto	**1289-10-06 16:04**	**J**	**2192144.00**	**2192144.17**	**2192144.35**	**0.0072**	**0.0018**
Moon	**1289-10-27 03:35**	**J**	**2192164.55**	**2192164.65**	**2192164.75**	**0.2691**	**0.0813**
Earth	**1289-10-27 04:04**	**J**	**2192164.57**	**2192164.67**	**2192164.77**	**0.2696**	**0.0881** *
Pluto	**1290-01-02 17:45**	**J**	**2192232.09**	**2192232.24**	**2192232.41**	**0.0071**	**0.0030**
Pluto	**1290-03-31 19:26**	**J**	**2192320.18**	**2192320.31**	**2192320.47**	**0.0071**	**0.0041**
Pluto	**1290-06-27 21:07**	**J**	**2192408.28**	**2192408.38**	**2192408.52**	**0.0071**	**0.0052**
Pluto	**1290-09-23 22:48**	**J**	**2192496.39**	**2192496.45**	**2192496.55**	**0.0071**	**0.0063**
Saturn	**1291-04-03 05:31**	**J**	**2192687.64**	**2192687.73**	**2192687.82**	**0.0288**	**0.0215**
Saturn	**1291-06-30 18:14**	**J**	**2192776.13**	**2192776.26**	**2192776.39**	**0.0288**	**0.0085**
Saturn	**1291-09-27 06:57**	**J**	**2192864.65**	**2192864.79**	**2192864.92**	**0.0289**	**0.0046**
Saturn	**1291-12-24 19:11**	**J**	**2192953.20**	**2192953.30**	**2192953.41**	**0.0290**	**0.0175**
Venus	**1293-10-04 08:52**	**J**	**2193602.74**	**2193602.87**	**2193603.01**	**0.3692**	**0.1392**
Mars	**1294-01-06 06:00**	**J**	**2193696.67**	**2193696.75**	**2193696.83**	**0.1712**	**0.1505**
Jupiter	**1294-06-30 02:09**	**J**	**2193871.42**	**2193871.59**	**2193871.77**	**0.0492**	**0.0098**

Mars 1294-11-17 06:00 J 2194011.63 2194011.75 2194011.86 0.1802 0.0331

Neptune 1297-05-17 04:48 J 2194923.68 2194923.70 2194923.77 0.0088 0.0085

Neptune 1297-08-13 07:55 J 2195011.76 2195011.83 2195011.94 0.0088 0.0076

Venus 1297-10-03 08:24 J 2195062.77 2195062.85 2195062.93 0.3677 0.2405

Neptune 1297-11-09 11:02 J 2195099.86 2195099.96 2195100.10 0.0088 0.0067

Neptune 1298-02-05 14:09 J 2195187.97 2195188.09 2195188.25 0.0088 0.0058

Neptune 1298-05-04 17:45 J 2195276.09 2195276.24 2195276.40 0.0088 0.0048

Neptune 1298-07-31 20:52 J 2195364.21 2195364.37 2195364.54 0.0088 0.0039

Neptune 1298-10-28 00:00 J 2195452.33 2195452.50 2195452.68 0.0088 0.0030

Neptune 1299-01-24 03:07 J 2195540.46 2195540.63 2195540.82 0.0088 0.0021

Venus 1299-04-20 14:24 J 2195626.98 2195627.10 2195627.22 0.3691 0.2098

Neptune 1299-04-22 06:28 J 2195628.59 2195628.77 2195628.96 0.0088 0.0011

Neptune 1299-07-19 09:35 J 2195716.72 2195716.90 2195717.09 0.0088 0.0003

Neptune 1299-10-15 12:57 J 2195804.85 2195805.04 2195805.23 0.0088 0.0007

Neptune 1300-01-11 16:04 J 2195892.99 2195893.17 2195893.36 0.0088 0.0017

Jupiter 1300-03-03 15:50 J 2195945.03 2195945.16 2195945.28 0.0535 0.0134

Neptune 1300-04-08 19:11 J 2195981.13 2195981.30 2195981.49 0.0088 0.0026

Jupiter 1300-05-31 23:02 J 2196034.40 2196034.46 2196034.53 0.0533 0.0463

Neptune 1300-07-05 22:33 J 2196069.27 2196069.44 2196069.61 0.0088 0.0035

Neptune 1300-10-02 01:26 J 2196157.42 2196157.56 2196157.74 0.0088 0.0045

Neptune 1300-12-29 05:02 J 2196245.57 2196245.71 2196245.86 0.0088 0.0054

Neptune 1301-03-27 07:55 J 2196333.72 2196333.83 2196333.98 0.0088 0.0064

Neptune 1301-06-23 11:31 J 2196421.88 2196421.98 2196422.09 0.0088 0.0073

Neptune 1301-09-19 14:24 J 2196510.06 2196510.10 2196510.19 0.0088 0.0083

Moon 1302-10-29 20:52 J 2196915.30 2196915.37 2196915.43 0.2697 0.2111

Earth 1302-10-29 21:35 J 2196915.34 2196915.40 2196915.46 0.2697 0.2248 *

Venus 1303-04-19 00:57 J 2197086.44 2197086.54 2197086.64 0.3678 0.0972

Mars 1304-04-08 15:35 J 2197442.03 2197442.15 2197442.26 0.1809 0.0271

Saturn 1305-01-28 13:11 J 2197736.95 2197737.05 2197737.17 0.0273 0.0215

Saturn 1305-04-27 09:07 J 2197825.71 2197825.88 2197826.05 0.0272 0.0071

Uranus	1305-05-01 18:00 J	2197830.23	2197830.25	2197830.28	0.0143	0.0141
Mars	1305-05-05 10:19 J	2197833.83	2197833.93	2197834.03	0.1733	0.1365
Saturn	1305-07-25 05:02 J	2197914.54	2197914.71	2197914.88	0.0271	0.0074
Uranus	1305-07-29 01:40 J	2197918.47	2197918.57	2197918.70	0.0143	0.0112
Saturn	1305-10-22 01:11 J	2198003.45	2198003.55	2198003.66	0.0271	0.0220
Uranus	1305-10-25 10:04 J	2198006.76	2198006.92	2198007.07	0.0143	0.0082
Uranus	1306-01-21 18:00 J	2198095.08	2198095.25	2198095.43	0.0143	0.0053
Jupiter	1306-04-18 00:57 J	2198181.36	2198181.54	2198181.72	0.0492	0.0065
Uranus	1306-04-20 02:09 J	2198183.40	2198183.59	2198183.78	0.0143	0.0023
Earth	1306-04-20 18:43 J	2198184.21	2198184.28	2198184.35	0.2639	0.2348
Uranus	1306-07-17 10:19 J	2198271.73	2198271.93	2198272.12	0.0143	0.0008
Uranus	1306-10-13 18:14 J	2198360.08	2198360.26	2198360.45	0.0143	0.0037
Uranus	1307-01-10 02:09 J	2198448.44	2198448.59	2198448.77	0.0142	0.0068
Uranus	1307-04-08 10:19 J	2198536.81	2198536.93	2198537.09	0.0142	0.0098
Uranus	1307-07-05 18:28 J	2198625.20	2198625.27	2198625.37	0.0142	0.0128
Venus	1308-11-01 17:16 J	2199110.12	2199110.22	2199110.33	0.3679	0.0433
Earth	1309-10-22 21:35 J	2199465.32	2199465.40	2199465.49	0.2693	0.1602
Moon	1309-10-22 22:04 J	2199465.33	2199465.42	2199465.51	0.2688	0.1478 *
Jupiter	1311-12-21 18:43 J	2200255.17	2200255.28	2200255.39	0.0535	0.0295
Jupiter	1312-03-20 02:24 J	2200344.50	2200344.60	2200344.71	0.0534	0.0307
Mars	1313-08-30 00:43 J	2200872.43	2200872.53	2200872.63	0.1816	0.0894
Venus	1314-05-18 09:35 J	2201133.81	2201133.90	2201133.99	0.3680	0.1799
Mars	1314-09-25 08:38 J	2201263.69	2201263.86	2201264.02	0.1726	0.0398
Mars	1315-08-05 10:48 J	2201577.89	2201577.95	2201578.00	0.1788	0.1553
Jupiter	1318-02-03 23:16 J	2202491.31	2202491.47	2202491.63	0.0492	0.0230
Jupiter	1318-05-05 05:02 J	2202581.64	2202581.71	2202581.78	0.0493	0.0450
Moon	1319-04-24 00:57 J	2202935.38	2202935.54	2202935.69	0.2642	0.0479
Earth	1319-04-24 01:55 J	2202935.42	2202935.58	2202935.74	0.2637	0.0514 *
Venus	1319-12-02 01:40 J	2203157.52	2203157.57	2203157.63	0.3681	0.3143
Saturn	1320-08-20 07:55 J	2203419.77	2203419.83	2203419.90	0.0287	0.0248

Saturn	**1320-11-16 20:52 J**	**2203508.25**	**2203508.37**	**2203508.49**	**0.0288**	**0.0117**
Saturn	**1321-02-13 09:35 J**	**2203596.76**	**2203596.90**	**2203597.03**	**0.0289**	**0.0015**
Saturn	**1321-05-12 22:04 J**	**2203685.30**	**2203685.42**	**2203685.53**	**0.0290**	**0.0143**
Saturn	**1321-08-09 10:19 J**	**2203773.89**	**2203773.93**	**2203773.98**	**0.0290**	**0.0273**
Moon	**1322-10-25 15:21 J**	**2204216.03**	**2204216.14**	**2204216.24**	**0.2687**	**0.0276**
Earth	**1322-10-25 15:21 J**	**2204216.03**	**2204216.14**	**2204216.24**	**0.2695**	**0.0228** *
Mars	**1323-01-20 09:50 J**	**2204302.85**	**2204302.91**	**2204302.97**	**0.1823**	**0.1531**
Jupiter	**1323-10-09 22:04 J**	**2204565.36**	**2204565.42**	**2204565.50**	**0.0536**	**0.0450**
Jupiter	**1324-01-07 06:14 J**	**2204654.64**	**2204654.76**	**2204654.89**	**0.0535**	**0.0160**
Mars	**1324-02-15 07:26 J**	**2204693.65**	**2204693.81**	**2204693.97**	**0.1719**	**0.0521**
Mars	**1324-12-25 20:24 J**	**2205008.25**	**2205008.35**	**2205008.45**	**0.1795**	**0.0980**
Jupiter	**1329-11-22 20:52 J**	**2206801.27**	**2206801.37**	**2206801.47**	**0.0491**	**0.0406**
Jupiter	**1330-02-21 01:55 J**	**2206891.43**	**2206891.58**	**2206891.73**	**0.0492**	**0.0264**
Mars	**1333-07-07 06:43 J**	**2208123.69**	**2208123.78**	**2208123.87**	**0.1712**	**0.1409**
Mars	**1334-05-18 06:00 J**	**2208438.64**	**2208438.75**	**2208438.86**	**0.1802**	**0.0397**
Saturn	**1334-06-17 14:38 J**	**2208469.04**	**2208469.11**	**2208469.19**	**0.0273**	**0.0243**
Saturn	**1334-09-14 10:19 J**	**2208557.77**	**2208557.93**	**2208558.10**	**0.0272**	**0.0100**
Saturn	**1334-12-12 06:14 J**	**2208646.58**	**2208646.76**	**2208646.94**	**0.0272**	**0.0045**
Saturn	**1335-03-11 02:09 J**	**2208735.47**	**2208735.59**	**2208735.72**	**0.0271**	**0.0190**
Jupiter	**1335-10-26 10:33 J**	**2208964.81**	**2208964.94**	**2208965.06**	**0.0535**	**0.0025**
Moon	**1335-10-28 08:09 J**	**2208966.74**	**2208966.84**	**2208966.94**	**0.2693**	**0.1110**
Earth	**1335-10-28 08:52 J**	**2208966.77**	**2208966.87**	**2208966.96**	**0.2696**	**0.1164** *
Jupiter	**1341-12-10 00:14 J**	**2211201.33**	**2211201.51**	**2211201.69**	**0.0492**	**0.0097**
Moon	**1342-10-21 09:35 J**	**2211516.86**	**2211516.90**	**2211516.93**	**0.2691**	**0.2546**
Mars	**1343-10-08 15:21 J**	**2211869.03**	**2211869.14**	**2211869.26**	**0.1809**	**0.0218**
Venus	**1344-10-25 05:02 J**	**2212251.69**	**2212251.71**	**2212251.73**	**0.3693**	**0.3648**
Mars	**1344-11-03 11:02 J**	**2212260.88**	**2212260.96**	**2212261.05**	**0.1733**	**0.1461**
Jupiter	**1347-08-14 14:24 J**	**2213274.98**	**2213275.10**	**2213275.23**	**0.0535**	**0.0129**
Jupiter	**1347-11-11 21:50 J**	**2213364.35**	**2213364.41**	**2213364.47**	**0.0534**	**0.0467**
Venus	**1348-10-24 13:26 J**	**2213712.02**	**2213712.06**	**2213712.10**	**0.3677**	**0.3367**

Uranus	1348-10-27 15:35 J	2213715.10	2213715.15	2213715.20	0.0135	0.0124
Moon	1348-10-30 01:40 J	2213717.53	2213717.57	2213717.61	0.2697	0.2448
Earth	1348-10-30 02:24 J	2213717.56	2213717.60	2213717.63	0.2697	0.2528 *
Uranus	1349-01-23 18:43 J	2213803.20	2213803.28	2213803.36	0.0135	0.0107
Uranus	1349-04-21 21:50 J	2213891.32	2213891.41	2213891.52	0.0135	0.0089
Uranus	1349-07-19 01:11 J	2213979.44	2213979.55	2213979.66	0.0135	0.0071
Uranus	1349-10-15 04:19 J	2214067.56	2214067.68	2214067.80	0.0135	0.0054
Uranus	1350-01-11 07:26 J	2214155.68	2214155.81	2214155.94	0.0135	0.0036
Saturn	1350-04-05 21:50 J	2214240.30	2214240.41	2214240.52	0.0288	0.0164
Uranus	1350-04-09 10:33 J	2214243.81	2214243.94	2214244.08	0.0135	0.0019
Venus	1350-05-11 10:04 J	2214275.77	2214275.92	2214276.06	0.3692	0.0336
Saturn	1350-07-03 10:33 J	2214328.80	2214328.94	2214329.07	0.0288	0.0035
Uranus	1350-07-06 13:55 J	2214331.94	2214332.08	2214332.21	0.0136	0.0004
Saturn	1350-09-29 23:02 J	2214417.33	2214417.46	2214417.59	0.0289	0.0096
Uranus	1350-10-02 17:02 J	2214420.08	2214420.21	2214420.34	0.0136	0.0017
Saturn	1350-12-27 11:16 J	2214505.89	2214505.97	2214506.06	0.0290	0.0225
Uranus	1350-12-29 20:09 J	2214508.21	2214508.34	2214508.46	0.0136	0.0035
Uranus	1351-03-27 23:02 J	2214596.35	2214596.46	2214596.59	0.0136	0.0053
Uranus	1351-06-24 02:24 J	2214684.48	2214684.60	2214684.71	0.0136	0.0070
Uranus	1351-09-20 05:16 J	2214772.63	2214772.72	2214772.83	0.0136	0.0088
Uranus	1351-12-17 08:24 J	2214860.77	2214860.85	2214860.94	0.0136	0.0106
Uranus	1352-03-14 11:31 J	2214948.93	2214948.98	2214949.04	0.0136	0.0123
Moon	1352-04-20 23:31 J	2214986.37	2214986.48	2214986.59	0.2641	0.1915
Earth	1352-04-21 01:11 J	2214986.44	2214986.55	2214986.67	0.2639	0.1803 *
Mars	1353-02-28 00:43 J	2215299.43	2215299.53	2215299.63	0.1816	0.0830
Jupiter	1353-09-27 22:33 J	2215511.26	2215511.44	2215511.62	0.0492	0.0068
Mars	1354-03-26 09:35 J	2215690.74	2215690.90	2215691.06	0.1726	0.0504
Venus	1354-05-10 06:00 J	2215735.66	2215735.75	2215735.84	0.3678	0.1924
Mars	1355-02-03 10:33 J	2216004.90	2216004.94	2216004.99	0.1788	0.1610
Earth	1355-10-24 02:24 J	2216267.51	2216267.60	2216267.70	0.2693	0.1314

Moon	1355-10-24 02:52 J	2216267.52	2216267.62	2216267.71	0.2687	0.1323 *
Venus	1355-11-25 15:50 J	2216300.09	2216300.16	2216300.23	0.3691	0.3230
Jupiter	1359-06-02 18:00 J	2217585.14	2217585.25	2217585.36	0.0536	0.0280
Jupiter	1359-08-31 01:55 J	2217674.48	2217674.58	2217674.68	0.0534	0.0322
Venus	1359-11-23 22:33 J	2217759.34	2217759.44	2217759.55	0.3678	0.0505
Mars	1362-07-21 09:50 J	2218729.85	2218729.91	2218729.98	0.1823	0.1466
Mars	1363-08-16 08:09 J	2219120.68	2219120.84	2219121.00	0.1719	0.0433
Saturn	1364-02-01 08:24 J	2219289.71	2219289.85	2219290.00	0.0273	0.0153
Saturn	1364-04-30 04:19 J	2219378.50	2219378.68	2219378.86	0.0272	0.0008
Mars	1364-06-25 20:24 J	2219435.26	2219435.35	2219435.44	0.1795	0.1042
Saturn	1364-07-28 00:14 J	2219467.36	2219467.51	2219467.67	0.0271	0.0137
Moon	1365-04-24 07:55 J	2219737.68	2219737.83	2219737.98	0.2643	0.0879
Earth	1365-04-24 08:38 J	2219737.72	2219737.86	2219738.01	0.2637	0.1085 *
Venus	1365-06-08 14:52 J	2219783.02	2219783.12	2219783.23	0.3680	0.0895
Jupiter	1365-07-16 21:21 J	2219821.23	2219821.39	2219821.55	0.0492	0.0228
Jupiter	1365-10-15 03:07 J	2219911.56	2219911.63	2219911.70	0.0493	0.0453
Moon	1368-10-25 19:55 J	2221018.22	2221018.33	2221018.44	0.2688	0.0112
Earth	1368-10-25 20:09 J	2221018.23	2221018.34	2221018.44	0.2695	0.0118 *
Venus	1370-12-23 07:11 J	2221806.72	2221806.80	2221806.88	0.3680	0.2246
Jupiter	1371-03-21 21:07 J	2221895.31	2221895.38	2221895.45	0.0536	0.0443
Jupiter	1371-06-19 05:16 J	2221984.59	2221984.72	2221984.84	0.0534	0.0166
Mars	1373-01-05 07:11 J	2222550.70	2222550.80	2222550.91	0.1712	0.1325
Mars	1373-11-16 06:00 J	2222865.64	2222865.75	2222865.87	0.1802	0.0461
Venus	1376-07-07 23:16 J	2223830.45	2223830.47	2223830.49	0.3682	0.3569
Jupiter	1377-05-04 19:55 J	2224131.23	2224131.33	2224131.44	0.0491	0.0390
Jupiter	1377-08-03 01:11 J	2224221.40	2224221.55	2224221.70	0.0493	0.0282
Neptune	1379-03-01 19:55 J	2224797.33	2224797.33	2224797.34	0.0089	0.0089
Neptune	1379-05-28 21:35 J	2224885.35	2224885.40	2224885.45	0.0089	0.0082
Saturn	1379-08-24 00:00 J	2224972.40	2224972.50	2224972.60	0.0288	0.0199
Neptune	1379-08-24 23:02 J	2224973.39	2224973.46	2224973.54	0.0089	0.0074

Saturn 1379-11-20 12:43 J 2225060.90 2225061.03 2225061.16 0.0288 0.0068

Neptune 1379-11-21 00:14 J 2225061.44 2225061.51 2225061.62 0.0089 0.0068

Saturn 1380-02-17 01:11 J 2225149.42 2225149.55 2225149.69 0.0289 0.0062

Neptune 1380-02-17 02:09 J 2225149.49 2225149.59 2225149.69 0.0089 0.0060 *

Neptune 1380-05-15 03:35 J 2225237.54 2225237.65 2225237.76 0.0089 0.0053

Saturn 1380-05-15 13:40 J 2225237.98 2225238.07 2225238.18 0.0290 0.0191

Neptune 1380-08-11 05:02 J 2225325.60 2225325.71 2225325.83 0.0089 0.0045

Neptune 1380-11-07 06:28 J 2225413.65 2225413.77 2225413.90 0.0089 0.0038

Neptune 1381-02-03 07:55 J 2225501.71 2225501.83 2225501.96 0.0089 0.0031

Neptune 1381-05-02 09:35 J 2225589.77 2225589.90 2225590.03 0.0089 0.0024

Neptune 1381-07-29 11:02 J 2225677.83 2225677.96 2225678.09 0.0089 0.0016

Neptune 1381-10-25 12:28 J 2225765.89 2225766.02 2225766.16 0.0089 0.0009

Moon 1381-10-28 12:57 J 2225768.95 2225769.04 2225769.14 0.2693 0.1311

Earth 1381-10-28 13:40 J 2225768.98 2225769.07 2225769.16 0.2696 0.1448 *

Neptune 1382-01-21 13:55 J 2225853.95 2225854.08 2225854.22 0.0089 0.0002

Neptune 1382-04-19 15:21 J 2225942.01 2225942.14 2225942.28 0.0089 0.0006

Neptune 1382-07-16 16:48 J 2226030.07 2226030.20 2226030.34 0.0089 0.0013

Neptune 1382-10-12 18:14 J 2226118.13 2226118.26 2226118.40 0.0089 0.0020

Neptune 1383-01-08 19:40 J 2226206.20 2226206.32 2226206.46 0.0089 0.0027

Neptune 1383-04-06 21:07 J 2226294.26 2226294.38 2226294.51 0.0089 0.0034

Jupiter 1383-04-07 08:52 J 2226294.74 2226294.87 2226295.00 0.0535 0.0021

Mars 1383-04-08 15:21 J 2226296.03 2226296.14 2226296.26 0.1809 0.0162

Neptune 1383-07-03 22:48 J 2226382.33 2226382.45 2226382.57 0.0089 0.0041

Neptune 1383-09-30 00:14 J 2226470.39 2226470.51 2226470.62 0.0089 0.0048

Neptune 1383-12-27 01:40 J 2226558.46 2226558.57 2226558.67 0.0089 0.0055

Neptune 1384-03-24 02:38 J 2226646.53 2226646.61 2226646.72 0.0089 0.0063

Mars 1384-05-04 12:00 J 2226687.93 2226688.00 2226688.07 0.1734 0.1563

Neptune 1384-06-20 04:04 J 2226734.60 2226734.67 2226734.77 0.0089 0.0070

Neptune 1384-09-16 05:31 J 2226822.68 2226822.73 2226822.81 0.0089 0.0076

Neptune 1384-12-13 06:57 J 2226910.76 2226910.79 2226910.85 0.0089 0.0083

Earth 1388-10-21 13:40 J 2228319.02 2228319.07 2228319.11 0.2692 0.2417

Moon 1388-10-21 14:09 J 2228319.04 2228319.09 2228319.14 0.2690 0.2365 *

Jupiter 1389-05-21 22:33 J 2228531.26 2228531.44 2228531.61 0.0492 0.0101

Uranus 1389-05-22 00:43 J 2228531.48 2228531.53 2228531.59 0.0143 0.0137 *

Uranus 1389-08-18 08:24 J 2228619.74 2228619.85 2228619.99 0.0143 0.0108

Uranus 1389-11-14 16:48 J 2228708.04 2228708.20 2228708.36 0.0143 0.0077

Uranus 1390-02-11 00:43 J 2228796.35 2228796.53 2228796.71 0.0143 0.0048

Uranus 1390-05-10 08:52 J 2228884.68 2228884.87 2228885.06 0.0143 0.0018

Uranus 1390-08-06 16:48 J 2228973.02 2228973.20 2228973.40 0.0143 0.0013

Uranus 1390-11-03 00:57 J 2229061.36 2229061.54 2229061.73 0.0143 0.0042

Uranus 1391-01-30 08:52 J 2229149.72 2229149.87 2229150.05 0.0142 0.0073

Uranus 1391-04-28 17:02 J 2229238.09 2229238.21 2229238.36 0.0142 0.0103

Uranus 1391-07-26 01:11 J 2229326.50 2229326.55 2229326.64 0.0142 0.0132

Mars 1392-08-29 00:43 J 2229726.43 2229726.53 2229726.64 0.1816 0.0769

Saturn 1393-06-20 09:21 J 2230021.76 2230021.89 2230022.02 0.0273 0.0184

Saturn 1393-09-17 05:02 J 2230110.54 2230110.71 2230110.89 0.0272 0.0041

Mars 1393-09-24 10:19 J 2230117.77 2230117.93 2230118.08 0.1726 0.0599

Saturn 1393-12-15 00:57 J 2230199.38 2230199.54 2230199.71 0.0272 0.0106

Saturn 1394-03-13 21:07 J 2230288.32 2230288.38 2230288.45 0.0271 0.0251

Mars 1394-08-04 10:33 J 2230431.91 2230431.94 2230431.98 0.1788 0.1669

Jupiter 1395-01-24 12:57 J 2230604.91 2230605.04 2230605.17 0.0536 0.0129

Jupiter 1395-04-23 20:24 J 2230694.30 2230694.35 2230694.41 0.0534 0.0469

Moon 1398-04-22 06:28 J 2231788.64 2231788.77 2231788.90 0.2641 0.1504

Earth 1398-04-22 07:55 J 2231788.69 2231788.83 2231788.97 0.2639 0.1240 *

Jupiter 1401-03-09 20:52 J 2232841.20 2232841.37 2232841.55 0.0492 0.0064

Venus 1401-06-01 06:00 J 2232924.65 2232924.75 2232924.85 0.3693 0.2629

Earth 1401-10-24 07:11 J 2233069.70 2233069.80 2233069.90 0.2694 0.1028

Moon 1401-10-24 07:26 J 2233069.71 2233069.81 2233069.92 0.2687 0.0930 *

Mars 1402-01-19 09:50 J 2233156.84 2233156.91 2233156.98 0.1823 0.1406

Mars 1403-02-14 08:52 J 2233547.71 2233547.87 2233548.03 0.1719 0.0334

Mars	**1403-12-25 20:24 J**	**2233862.26**	**2233862.35**	**2233862.44**	**0.1795**	**0.1101**
Venus	**1405-05-31 11:16 J**	**2234384.90**	**2234384.97**	**2234385.03**	**0.3677**	**0.2883**
Jupiter	**1406-11-12 16:48 J**	**2234915.09**	**2234915.20**	**2234915.32**	**0.0536**	**0.0275**
Venus	**1406-12-16 11:02 J**	**2234948.82**	**2234948.96**	**2234949.11**	**0.3692**	**0.0752**
Jupiter	**1407-02-10 00:43 J**	**2235004.43**	**2235004.53**	**2235004.63**	**0.0534**	**0.0329**
Saturn	**1409-01-10 00:43 J**	**2235704.46**	**2235704.53**	**2235704.60**	**0.0287**	**0.0247**
Saturn	**1409-04-08 13:26 J**	**2235792.94**	**2235793.06**	**2235793.19**	**0.0288**	**0.0117**
Saturn	**1409-07-06 02:09 J**	**2235881.45**	**2235881.59**	**2235881.72**	**0.0288**	**0.0014**
Saturn	**1409-10-02 14:24 J**	**2235969.99**	**2235970.10**	**2235970.22**	**0.0289**	**0.0142**
Saturn	**1409-12-30 02:52 J**	**2236058.58**	**2236058.62**	**2236058.67**	**0.0290**	**0.0269**
Venus	**1410-12-15 03:50 J**	**2236408.56**	**2236408.66**	**2236408.76**	**0.3678**	**0.1442**
Moon	**1411-04-25 14:38 J**	**2236539.99**	**2236540.11**	**2236540.23**	**0.2644**	**0.1664**
Earth	**1411-04-25 15:21 J**	**2236540.02**	**2236540.14**	**2236540.27**	**0.2637**	**0.1647** *
Mars	**1412-07-06 08:09 J**	**2236977.73**	**2236977.84**	**2236977.96**	**0.1712**	**0.1226**
Jupiter	**1412-12-26 19:26 J**	**2237151.16**	**2237151.31**	**2237151.47**	**0.0492**	**0.0226**
Jupiter	**1413-03-27 01:11 J**	**2237241.48**	**2237241.55**	**2237241.62**	**0.0493**	**0.0453**
Mars	**1413-05-17 06:00 J**	**2237292.64**	**2237292.75**	**2237292.86**	**0.1802**	**0.0515**
Moon	**1414-10-27 00:43 J**	**2237820.42**	**2237820.53**	**2237820.63**	**0.2689**	**0.0286**
Earth	**1414-10-27 00:57 J**	**2237820.43**	**2237820.54**	**2237820.64**	**0.2695**	**0.0370** *
Venus	**1416-06-29 20:09 J**	**2238432.24**	**2238432.34**	**2238432.45**	**0.3679**	**0.0154**
Jupiter	**1418-08-31 20:38 J**	**2239225.28**	**2239225.36**	**2239225.44**	**0.0536**	**0.0426**
Jupiter	**1418-11-29 04:33 J**	**2239314.57**	**2239314.69**	**2239314.81**	**0.0535**	**0.0184**
Venus	**1422-01-13 12:43 J**	**2240455.93**	**2240456.03**	**2240456.12**	**0.3680**	**0.1346**
Mars	**1422-10-07 15:35 J**	**2240723.03**	**2240723.15**	**2240723.26**	**0.1809**	**0.0091**
Saturn	**1422-11-07 06:57 J**	**2240753.71**	**2240753.79**	**2240753.88**	**0.0273**	**0.0241**
Saturn	**1423-02-04 02:38 J**	**2240842.45**	**2240842.61**	**2240842.78**	**0.0273**	**0.0097**
Saturn	**1423-05-03 22:33 J**	**2240931.27**	**2240931.44**	**2240931.62**	**0.0272**	**0.0048**
Saturn	**1423-07-31 18:28 J**	**2241020.16**	**2241020.27**	**2241020.41**	**0.0271**	**0.0195**
Mars	**1423-11-03 12:28 J**	**2241114.98**	**2241115.02**	**2241115.07**	**0.1734**	**0.1656**
Jupiter	**1424-10-14 18:28 J**	**2241461.16**	**2241461.27**	**2241461.38**	**0.0491**	**0.0383**

Jupiter	1425-01-12 23:31 J	2241551.34	2241551.48	2241551.63	0.0493	0.0289
Venus	1427-07-30 04:48 J	2242479.63	2242479.70	2242479.77	0.3681	0.2682
Moon	1427-10-29 17:45 J	2242571.16	2242571.24	2242571.32	0.2693	0.1685
Earth	1427-10-29 18:28 J	2242571.19	2242571.27	2242571.35	0.2696	0.1731 *
Jupiter	1430-09-17 07:55 J	2243624.70	2243624.83	2243624.96	0.0535	0.0030
Mars	1432-02-28 00:43 J	2244153.43	2244153.53	2244153.64	0.1816	0.0705
Uranus	1432-11-16 22:48 J	2244416.39	2244416.45	2244416.51	0.0135	0.0120
Uranus	1433-02-13 01:40 J	2244504.50	2244504.57	2244504.67	0.0135	0.0103
Mars	1433-03-25 10:48 J	2244544.80	2244544.95	2244545.10	0.1727	0.0689
Uranus	1433-05-12 05:02 J	2244592.61	2244592.71	2244592.82	0.0135	0.0085
Uranus	1433-08-08 08:24 J	2244680.73	2244680.85	2244680.96	0.0135	0.0067
Uranus	1433-11-04 11:31 J	2244768.86	2244768.98	2244769.10	0.0135	0.0050
Uranus	1434-01-31 14:38 J	2244856.98	2244857.11	2244857.24	0.0135	0.0032
Mars	1434-02-02 10:48 J	2244858.93	2244858.95	2244858.97	0.1787	0.1732
Uranus	1434-04-29 17:45 J	2244945.11	2244945.24	2244945.37	0.0136	0.0014
Uranus	1434-07-26 20:52 J	2245033.24	2245033.37	2245033.51	0.0136	0.0005
Earth	1434-10-22 18:28 J	2245121.20	2245121.27	2245121.33	0.2692	0.2130
Moon	1434-10-22 18:57 J	2245121.22	2245121.29	2245121.36	0.2689	0.2021 *
Uranus	1434-10-23 00:00 J	2245121.37	2245121.50	2245121.64	0.0136	0.0022
Uranus	1435-01-19 03:07 J	2245209.51	2245209.63	2245209.76	0.0136	0.0039
Uranus	1435-04-17 06:14 J	2245297.65	2245297.76	2245297.88	0.0136	0.0057
Uranus	1435-07-14 09:21 J	2245385.78	2245385.89	2245386.00	0.0136	0.0074
Uranus	1435-10-10 12:28 J	2245473.93	2245474.02	2245474.12	0.0136	0.0092
Uranus	1436-01-06 15:35 J	2245562.08	2245562.15	2245562.23	0.0136	0.0109
Uranus	1436-04-03 18:28 J	2245650.24	2245650.27	2245650.33	0.0136	0.0128
Jupiter	1436-10-31 21:50 J	2245861.24	2245861.41	2245861.59	0.0492	0.0122
Saturn	1438-05-30 02:24 J	2246436.60	2246436.60	2246436.61	0.0287	0.0286
Saturn	1438-08-26 15:21 J	2246525.02	2246525.14	2246525.25	0.0288	0.0156
Saturn	1438-11-23 04:04 J	2246613.53	2246613.67	2246613.80	0.0288	0.0027
Saturn	1439-02-19 16:33 J	2246702.06	2246702.19	2246702.31	0.0289	0.0103

Saturn	**1439-05-19 04:48 J**	**2246790.63**	**2246790.70**	**2246790.79**	**0.0290**	**0.0232**
Mars	**1441-07-20 09:50 J**	**2247583.84**	**2247583.91**	**2247583.99**	**0.1823**	**0.1342**
Jupiter	**1442-07-06 11:45 J**	**2247934.86**	**2247934.99**	**2247935.11**	**0.0535**	**0.0124**
Mars	**1442-08-15 09:50 J**	**2247974.74**	**2247974.91**	**2247975.07**	**0.1720**	**0.0235**
Jupiter	**1442-10-03 19:11 J**	**2248024.24**	**2248024.30**	**2248024.36**	**0.0534**	**0.0472**
Mars	**1443-06-25 20:24 J**	**2248289.26**	**2248289.35**	**2248289.44**	**0.1794**	**0.1160**
Moon	**1444-04-22 13:11 J**	**2248590.90**	**2248591.05**	**2248591.20**	**0.2643**	**0.0817**
Earth	**1444-04-22 14:38 J**	**2248590.95**	**2248591.11**	**2248591.26**	**0.2639**	**0.0690** *
Earth	**1447-10-25 12:00 J**	**2249871.90**	**2249872.00**	**2249872.11**	**0.2694**	**0.0741**
Moon	**1447-10-25 12:14 J**	**2249871.91**	**2249872.01**	**2249872.12**	**0.2687**	**0.0755** *
Jupiter	**1448-08-19 19:26 J**	**2250171.13**	**2250171.31**	**2250171.49**	**0.0491**	**0.0057**
Pluto	**1450-04-05 18:57 J**	**2250765.24**	**2250765.29**	**2250765.37**	**0.0071**	**0.0064**
Pluto	**1450-07-02 19:55 J**	**2250853.25**	**2250853.33**	**2250853.43**	**0.0071**	**0.0055**
Pluto	**1450-09-28 20:52 J**	**2250941.27**	**2250941.37**	**2250941.49**	**0.0072**	**0.0046**
Pluto	**1450-12-25 21:50 J**	**2251029.29**	**2251029.41**	**2251029.54**	**0.0072**	**0.0037**
Pluto	**1451-03-23 22:48 J**	**2251117.32**	**2251117.45**	**2251117.58**	**0.0072**	**0.0028**
Pluto	**1451-06-19 23:45 J**	**2251205.35**	**2251205.49**	**2251205.63**	**0.0072**	**0.0019**
Pluto	**1451-09-16 00:43 J**	**2251293.39**	**2251293.53**	**2251293.67**	**0.0072**	**0.0010**
Pluto	**1451-12-13 01:40 J**	**2251381.42**	**2251381.57**	**2251381.71**	**0.0072**	**0.0002**
Mars	**1452-01-05 08:52 J**	**2251404.74**	**2251404.87**	**2251404.99**	**0.1713**	**0.1139**
Pluto	**1452-03-10 02:24 J**	**2251469.46**	**2251469.60**	**2251469.75**	**0.0072**	**0.0009**
Pluto	**1452-06-06 03:21 J**	**2251557.51**	**2251557.64**	**2251557.78**	**0.0072**	**0.0018**
Saturn	**1452-06-23 03:07 J**	**2251574.48**	**2251574.63**	**2251574.79**	**0.0273**	**0.0131**
Pluto	**1452-09-02 04:19 J**	**2251645.55**	**2251645.68**	**2251645.82**	**0.0073**	**0.0027**
Saturn	**1452-09-19 23:02 J**	**2251663.28**	**2251663.46**	**2251663.64**	**0.0272**	**0.0014**
Mars	**1452-11-15 06:00 J**	**2251719.64**	**2251719.75**	**2251719.86**	**0.1802**	**0.0578**
Pluto	**1452-11-29 05:02 J**	**2251733.60**	**2251733.71**	**2251733.85**	**0.0073**	**0.0037**
Saturn	**1452-12-17 18:57 J**	**2251752.15**	**2251752.29**	**2251752.44**	**0.0272**	**0.0160**
Pluto	**1453-02-25 06:14 J**	**2251821.65**	**2251821.76**	**2251821.87**	**0.0073**	**0.0046**
Pluto	**1453-05-24 06:57 J**	**2251909.71**	**2251909.79**	**2251909.90**	**0.0073**	**0.0056**

Pluto 1453-08-20 08:09 J 2251997.78 2251997.84 2251997.91 0.0073 0.0065

Jupiter 1454-04-24 15:35 J 2252245.03 2252245.15 2252245.26 0.0536 0.0274

Jupiter 1454-07-22 23:16 J 2252334.37 2252334.47 2252334.57 0.0535 0.0332

Moon 1457-04-25 21:21 J 2253342.30 2253342.39 2253342.49 0.2643 0.2046

Earth 1457-04-25 22:04 J 2253342.34 2253342.42 2253342.51 0.2637 0.2219 *

Venus 1458-01-06 06:57 J 2253597.66 2253597.79 2253597.92 0.3693 0.1608

Jupiter 1460-06-07 18:14 J 2254481.10 2254481.26 2254481.42 0.0491 0.0217

Jupiter 1460-09-05 23:31 J 2254571.43 2254571.48 2254571.55 0.0493 0.0461

Moon 1460-10-27 05:16 J 2254622.61 2254622.72 2254622.82 0.2690 0.0640

Earth 1460-10-27 05:45 J 2254622.63 2254622.74 2254622.84 0.2695 0.0652 *

Venus 1462-01-05 08:52 J 2255057.79 2255057.87 2255057.95 0.3677 0.2401

Neptune 1462-02-11 03:50 J 2255094.60 2255094.66 2255094.74 0.0088 0.0081

Mars 1462-04-07 15:35 J 2255150.03 2255150.15 2255150.26 0.1809 0.0068

Neptune 1462-05-10 06:57 J 2255182.70 2255182.79 2255182.91 0.0088 0.0072

Neptune 1462-08-06 10:04 J 2255270.80 2255270.92 2255271.06 0.0088 0.0063

Neptune 1462-11-02 13:11 J 2255358.92 2255359.05 2255359.21 0.0088 0.0054

Neptune 1463-01-29 16:19 J 2255447.03 2255447.18 2255447.35 0.0088 0.0045

Neptune 1463-04-27 19:40 J 2255535.15 2255535.32 2255535.49 0.0088 0.0035

Venus 1463-07-23 12:14 J 2255621.89 2255622.01 2255622.14 0.3691 0.1855

Neptune 1463-07-24 22:48 J 2255623.28 2255623.45 2255623.63 0.0088 0.0026

Neptune 1463-10-21 01:55 J 2255711.41 2255711.58 2255711.77 0.0088 0.0017

Neptune 1464-01-17 05:16 J 2255799.53 2255799.72 2255799.91 0.0088 0.0008

Neptune 1464-04-14 08:24 J 2255887.67 2255887.85 2255888.04 0.0088 0.0002

Neptune 1464-07-11 11:45 J 2255975.80 2255975.99 2255976.17 0.0088 0.0011

Neptune 1464-10-07 14:38 J 2256063.94 2256064.11 2256064.30 0.0088 0.0021

Neptune 1465-01-03 18:00 J 2256152.08 2256152.25 2256152.43 0.0088 0.0030

Neptune 1465-04-01 21:21 J 2256240.22 2256240.39 2256240.56 0.0088 0.0039

Neptune 1465-06-29 00:14 J 2256328.37 2256328.51 2256328.68 0.0088 0.0049

Neptune 1465-09-25 03:35 J 2256416.52 2256416.65 2256416.80 0.0088 0.0058

Neptune 1465-12-22 06:43 J 2256504.68 2256504.78 2256504.92 0.0088 0.0068

Jupiter 1466-02-10 19:26 J 2256555.23 2256555.31 2256555.39 0.0536 0.0419

Neptune 1466-03-20 10:04 J 2256592.84 2256592.92 2256593.02 0.0088 0.0077

Jupiter 1466-05-11 03:35 J 2256644.53 2256644.65 2256644.77 0.0535 0.0191

Neptune 1466-06-16 13:40 J 2256681.04 2256681.07 2256681.10 0.0088 0.0086

Venus 1467-07-22 01:26 J 2257081.46 2257081.56 2257081.67 0.3678 0.0981

Saturn 1468-01-13 16:04 J 2257257.08 2257257.17 2257257.27 0.0287 0.0204

Saturn 1468-04-11 04:48 J 2257345.57 2257345.70 2257345.83 0.0287 0.0075

Saturn 1468-07-08 17:16 J 2257434.09 2257434.22 2257434.36 0.0288 0.0056

Saturn 1468-10-05 05:45 J 2257522.64 2257522.74 2257522.85 0.0289 0.0183

Mars 1471-08-29 00:43 J 2258580.43 2258580.53 2258580.64 0.1816 0.0645

Jupiter 1472-03-26 16:48 J 2258791.09 2258791.20 2258791.32 0.0491 0.0378

Jupiter 1472-06-24 21:50 J 2258881.27 2258881.41 2258881.56 0.0492 0.0294

Mars 1472-09-23 11:45 J 2258971.84 2258971.99 2258972.14 0.1727 0.0793

Venus 1473-02-03 18:00 J 2259105.14 2259105.25 2259105.35 0.3679 0.0426

Uranus 1473-06-11 07:26 J 2259232.75 2259232.81 2259232.90 0.0143 0.0131

Mars 1473-08-03 10:33 J 2259285.94 2259285.94 2259285.95 0.1787 0.1785

Uranus 1473-09-07 15:35 J 2259321.02 2259321.15 2259321.29 0.0143 0.0101

Moon 1473-10-29 22:33 J 2259373.36 2259373.44 2259373.52 0.2694 0.1863

Earth 1473-10-29 23:16 J 2259373.40 2259373.47 2259373.54 0.2697 0.2014 *

Uranus 1473-12-04 23:31 J 2259409.33 2259409.48 2259409.65 0.0143 0.0072

Uranus 1474-03-03 07:40 J 2259497.64 2259497.82 2259498.01 0.0143 0.0042

Uranus 1474-05-30 15:50 J 2259585.97 2259586.16 2259586.35 0.0143 0.0012

Uranus 1474-08-27 00:00 J 2259674.31 2259674.50 2259674.69 0.0143 0.0018

Uranus 1474-11-23 07:55 J 2259762.65 2259762.83 2259763.02 0.0143 0.0048

Uranus 1475-02-19 16:04 J 2259851.01 2259851.17 2259851.33 0.0142 0.0078

Uranus 1475-05-19 00:14 J 2259939.39 2259939.51 2259939.64 0.0142 0.0108

Uranus 1475-08-15 08:24 J 2260027.81 2260027.85 2260027.90 0.0142 0.0138

Jupiter 1478-02-27 07:26 J 2260954.68 2260954.81 2260954.94 0.0535 0.0048

Venus 1478-08-20 10:19 J 2261128.84 2261128.93 2261129.02 0.3680 0.1789

Earth 1480-10-22 23:16 J 2261923.39 2261923.47 2261923.55 0.2692 0.1843

Moon	1480-10-22 23:45 J	2261923.41	2261923.49	2261923.57	0.2687	0.1763	*
Mars	1481-01-18 10:04 J	2262010.84	2262010.92	2262011.00	0.1823	0.1272	
Saturn	1481-11-10 00:14 J	2262306.39	2262306.51	2262306.64	0.0273	0.0191	
Saturn	1482-02-06 20:09 J	2262395.16	2262395.34	2262395.51	0.0273	0.0047	
Mars	1482-02-13 10:19 J	2262401.76	2262401.93	2262402.09	0.1720	0.0155	
Saturn	1482-05-06 16:04 J	2262484.00	2262484.17	2262484.34	0.0272	0.0098	
Saturn	1482-08-03 12:00 J	2262572.94	2262573.00	2262573.09	0.0271	0.0245	
Mars	1482-12-24 20:24 J	2262716.27	2262716.35	2262716.44	0.1795	0.1224	
Venus	1484-03-05 02:24 J	2263152.55	2263152.60	2263152.66	0.3681	0.3121	
Jupiter	1484-04-12 20:38 J	2263191.18	2263191.36	2263191.53	0.0492	0.0130	
Jupiter	1489-12-16 10:48 J	2265264.83	2265264.95	2265265.08	0.0535	0.0112	
Jupiter	1490-03-15 18:14 J	2265354.21	2265354.26	2265354.32	0.0534	0.0484	
Moon	1490-04-23 20:09 J	2265393.18	2265393.34	2265393.49	0.2644	0.0284	
Earth	1490-04-23 21:21 J	2265393.23	2265393.39	2265393.55	0.2639	0.0115	*
Mars	1491-07-06 09:35 J	2265831.77	2265831.90	2265832.03	0.1713	0.1045	
Mars	1492-05-16 06:14 J	2266146.65	2266146.76	2266146.86	0.1801	0.0644	
Moon	1493-10-25 17:02 J	2266674.10	2266674.21	2266674.32	0.2687	0.0409	
Earth	1493-10-25 16:48 J	2266674.10	2266674.20	2266674.31	0.2694	0.0458	*
Jupiter	1496-01-30 19:11 J	2267501.12	2267501.30	2267501.48	0.0492	0.0036	
Saturn	1497-06-01 17:31 J	2267989.17	2267989.23	2267989.30	0.0287	0.0245	
Saturn	1497-08-29 06:28 J	2268077.64	2268077.77	2268077.89	0.0288	0.0116	
Saturn	1497-11-25 18:57 J	2268166.16	2268166.29	2268166.43	0.0288	0.0014	
Saturn	1498-02-22 07:26 J	2268254.70	2268254.81	2268254.93	0.0289	0.0142	
Saturn	1498-05-21 19:55 J	2268343.28	2268343.33	2268343.37	0.0290	0.0270	
Jupiter	1501-10-04 14:24 J	2269574.99	2269575.10	2269575.22	0.0536	0.0264	
Mars	1501-10-06 15:35 J	2269577.03	2269577.15	2269577.26	0.1809	0.0066	
Jupiter	1502-01-01 22:19 J	2269664.33	2269664.43	2269664.53	0.0534	0.0339	
Moon	1506-10-28 10:04 J	2271424.81	2271424.92	2271425.02	0.2690	0.0808	
Earth	1506-10-28 10:33 J	2271424.83	2271424.94	2271425.04	0.2695	0.0934	*
Jupiter	1507-11-18 17:02 J	2271811.05	2271811.21	2271811.37	0.0491	0.0207	

Jupiter	1508-02-16 22:19 J	2271901.39	2271901.43	2271901.49	0.0492	0.0471
Mars	1511-02-27 00:57 J	2273007.43	2273007.54	2273007.65	0.1815	0.0580
Saturn	1511-03-30 00:28 J	2273038.43	2273038.52	2273038.62	0.0274	0.0228
Saturn	1511-06-26 20:09 J	2273127.18	2273127.34	2273127.52	0.0273	0.0084
Saturn	1511-09-23 16:19 J	2273216.00	2273216.18	2273216.35	0.0272	0.0062
Saturn	1511-12-21 12:28 J	2273304.90	2273305.02	2273305.13	0.0272	0.0208
Mars	1512-03-24 12:28 J	2273398.88	2273399.02	2273399.16	0.1727	0.0890
Venus	1513-01-26 13:55 J	2273707.04	2273707.08	2273707.12	0.3677	0.3371
Jupiter	1513-07-23 18:14 J	2273885.18	2273885.26	2273885.34	0.0537	0.0417
Jupiter	1513-10-21 02:24 J	2273974.48	2273974.60	2273974.72	0.0535	0.0195
Venus	1514-08-13 07:55 J	2274270.69	2274270.83	2274270.98	0.3692	0.0556
Uranus	1516-09-10 02:38 J	2275029.61	2275029.61	2275029.61	0.0135	0.0135
Uranus	1516-12-07 05:45 J	2275117.68	2275117.74	2275117.81	0.0135	0.0117
Uranus	1517-03-05 08:52 J	2275205.79	2275205.87	2275205.97	0.0135	0.0100
Uranus	1517-06-01 12:14 J	2275293.90	2275294.01	2275294.11	0.0135	0.0082
Uranus	1517-08-28 15:07 J	2275382.02	2275382.13	2275382.26	0.0135	0.0065
Uranus	1517-11-24 18:28 J	2275470.15	2275470.27	2275470.40	0.0135	0.0046
Uranus	1518-02-20 21:35 J	2275558.27	2275558.40	2275558.54	0.0135	0.0029
Uranus	1518-05-20 00:57 J	2275646.40	2275646.54	2275646.67	0.0136	0.0012
Venus	1518-08-12 06:43 J	2275730.69	2275730.78	2275730.87	0.3678	0.1920
Uranus	1518-08-16 04:04 J	2275734.53	2275734.67	2275734.80	0.0136	0.0008
Uranus	1518-11-12 07:11 J	2275822.67	2275822.80	2275822.93	0.0136	0.0025
Uranus	1519-02-08 10:19 J	2275910.80	2275910.93	2275911.05	0.0136	0.0042
Uranus	1519-05-07 13:11 J	2275998.94	2275999.05	2275999.18	0.0136	0.0060
Uranus	1519-08-03 16:33 J	2276087.08	2276087.19	2276087.30	0.0136	0.0077
Jupiter	1519-09-06 15:50 J	2276121.05	2276121.16	2276121.28	0.0491	0.0365
Uranus	1519-10-30 19:26 J	2276175.23	2276175.31	2276175.41	0.0136	0.0095
Moon	1519-10-31 03:21 J	2276175.58	2276175.64	2276175.70	0.2696	0.2259
Earth	1519-10-31 04:04 J	2276175.61	2276175.67	2276175.72	0.2697	0.2295 *
Jupiter	1519-12-05 20:52 J	2276211.23	2276211.37	2276211.51	0.0492	0.0303

Uranus	1520-01-26 22:48 J	2276263.38	2276263.45	2276263.52	0.0136	0.0113
Venus	1520-02-27 13:40 J	2276294.98	2276295.07	2276295.15	0.3691	0.2953
Uranus	1520-04-24 01:40 J	2276351.54	2276351.57	2276351.61	0.0136	0.0130
Mars	1520-07-19 09:50 J	2276437.83	2276437.91	2276438.00	0.1823	0.1220
Mars	1521-08-14 11:16 J	2276828.80	2276828.97	2276829.13	0.1720	0.0068
Mars	1522-06-24 20:24 J	2277143.27	2277143.35	2277143.43	0.1794	0.1280
Moon	1523-04-21 19:11 J	2277444.26	2277444.30	2277444.34	0.2642	0.2539
Earth	1523-04-21 20:38 J	2277444.30	2277444.36	2277444.43	0.2640	0.2413 *
Venus	1524-02-25 23:16 J	2277754.36	2277754.47	2277754.57	0.3679	0.0514
Jupiter	1525-08-09 06:28 J	2278284.64	2278284.77	2278284.90	0.0536	0.0054
Earth	1526-10-24 04:04 J	2278725.58	2278725.67	2278725.76	0.2692	0.1556
Moon	1526-10-24 04:33 J	2278725.60	2278725.69	2278725.78	0.2687	0.1492 *
Saturn	1527-01-16 07:26 J	2278809.69	2278809.81	2278809.92	0.0286	0.0163
Saturn	1527-04-14 19:55 J	2278898.20	2278898.33	2278898.47	0.0287	0.0034
Saturn	1527-07-12 08:24 J	2278986.72	2278986.85	2278986.98	0.0288	0.0094
Saturn	1527-10-08 20:52 J	2279075.28	2279075.37	2279075.45	0.0289	0.0221
Venus	1529-09-10 15:35 J	2279778.05	2279778.15	2279778.25	0.3679	0.0882
Mars	1531-01-04 10:19 J	2280258.79	2280258.93	2280259.06	0.1713	0.0952
Jupiter	1531-09-23 19:11 J	2280521.13	2280521.30	2280521.47	0.0492	0.0137
Mars	1531-11-15 06:00 J	2280573.65	2280573.75	2280573.86	0.1802	0.0698
Venus	1535-03-27 07:55 J	2281801.75	2281801.83	2281801.91	0.3680	0.2235
Pluto	1535-09-01 10:19 J	2281959.88	2281959.93	2281960.02	0.0072	0.0067
Pluto	1535-11-28 12:28 J	2282047.91	2282048.02	2282048.15	0.0072	0.0055
Pluto	1536-02-24 14:09 J	2282135.97	2282136.09	2282136.25	0.0072	0.0044
Moon	1536-04-24 02:52 J	2282195.46	2282195.62	2282195.77	0.2644	0.0293
Earth	1536-04-24 04:04 J	2282195.51	2282195.67	2282195.83	0.2639	0.0452 *
Pluto	1536-05-22 16:19 J	2282224.03	2282224.18	2282224.35	0.0072	0.0031
Pluto	1536-08-18 18:14 J	2282312.10	2282312.26	2282312.44	0.0072	0.0020
Pluto	1536-11-14 20:09 J	2282400.17	2282400.34	2282400.52	0.0072	0.0008
Pluto	1537-02-10 22:04 J	2282488.24	2282488.42	2282488.60	0.0072	0.0003

Pluto 1537-05-09 23:45 J 2282576.32 2282576.49 2282576.67 0.0072 0.0015

Jupiter 1537-05-28 10:19 J 2282594.81 2282594.93 2282595.06 0.0536 0.0094

Pluto 1537-08-06 01:40 J 2282664.41 2282664.57 2282664.74 0.0072 0.0026

Jupiter 1537-08-25 18:00 J 2282684.21 2282684.25 2282684.29 0.0534 0.0503

Pluto 1537-11-02 03:21 J 2282752.50 2282752.64 2282752.80 0.0071 0.0037

Pluto 1538-01-29 05:16 J 2282840.59 2282840.72 2282840.85 0.0071 0.0048

Pluto 1538-04-27 06:57 J 2282928.70 2282928.79 2282928.90 0.0071 0.0059

Pluto 1538-07-24 08:38 J 2283016.83 2283016.86 2283016.91 0.0071 0.0069

Moon 1539-10-26 21:35 J 2283476.29 2283476.40 2283476.51 0.2687 0.0186

Earth 1539-10-26 21:35 J 2283476.29 2283476.40 2283476.51 0.2694 0.0176 *

Venus 1540-10-10 00:00 J 2283825.48 2283825.50 2283825.53 0.3681 0.3560

Saturn 1540-11-12 17:02 J 2283859.06 2283859.21 2283859.36 0.0273 0.0146

Saturn 1541-02-09 12:57 J 2283947.86 2283948.04 2283948.22 0.0273 0.0001

Mars 1541-04-06 15:35 J 2284004.04 2284004.15 2284004.27 0.1808 0.0110

Saturn 1541-05-09 08:52 J 2284036.73 2284036.87 2284037.03 0.0272 0.0145

Jupiter 1543-07-12 18:00 J 2284831.07 2284831.25 2284831.43 0.0492 0.0026

Neptune 1543-11-26 19:26 J 2284968.29 2284968.31 2284968.36 0.0089 0.0087

Neptune 1544-02-22 21:21 J 2285056.33 2285056.39 2285056.45 0.0089 0.0079

Neptune 1544-05-20 22:33 J 2285144.37 2285144.44 2285144.53 0.0089 0.0072

Neptune 1544-08-17 00:00 J 2285232.42 2285232.50 2285232.61 0.0089 0.0065

Neptune 1544-11-13 01:40 J 2285320.47 2285320.57 2285320.68 0.0089 0.0057

Neptune 1545-02-09 03:21 J 2285408.52 2285408.64 2285408.75 0.0089 0.0050

Neptune 1545-05-08 04:48 J 2285496.58 2285496.70 2285496.82 0.0089 0.0043

Neptune 1545-08-04 06:14 J 2285584.64 2285584.76 2285584.89 0.0089 0.0035

Neptune 1545-10-31 07:40 J 2285672.69 2285672.82 2285672.95 0.0089 0.0028

Neptune 1546-01-27 09:07 J 2285760.75 2285760.88 2285761.02 0.0089 0.0021

Neptune 1546-04-25 10:48 J 2285848.81 2285848.95 2285849.08 0.0089 0.0014

Neptune 1546-07-22 12:14 J 2285936.87 2285937.01 2285937.15 0.0089 0.0007

Neptune 1546-10-18 13:40 J 2286024.93 2286025.07 2286025.21 0.0089 0.0001

Neptune 1547-01-14 15:07 J 2286113.00 2286113.13 2286113.27 0.0089 0.0008

Neptune 1547-04-12 16:33 J 2286201.06 2286201.19 2286201.33 0.0089 0.0015

Neptune 1547-07-09 18:00 J 2286289.12 2286289.25 2286289.38 0.0089 0.0022

Neptune 1547-10-05 19:26 J 2286377.18 2286377.31 2286377.44 0.0089 0.0029

Neptune 1548-01-01 20:52 J 2286465.25 2286465.37 2286465.50 0.0089 0.0036

Neptune 1548-03-29 22:19 J 2286553.32 2286553.43 2286553.55 0.0089 0.0043

Neptune 1548-06-25 23:45 J 2286641.38 2286641.49 2286641.60 0.0089 0.0051

Neptune 1548-09-22 01:11 J 2286729.45 2286729.55 2286729.66 0.0089 0.0058

Neptune 1548-12-19 02:38 J 2286817.52 2286817.61 2286817.71 0.0089 0.0065

Jupiter 1549-03-16 13:40 J 2286904.96 2286905.07 2286905.19 0.0536 0.0250

Neptune 1549-03-17 04:04 J 2286905.59 2286905.67 2286905.75 0.0089 0.0072

Neptune 1549-06-13 05:16 J 2286993.67 2286993.72 2286993.79 0.0089 0.0079

Jupiter 1549-06-13 21:35 J 2286994.30 2286994.40 2286994.49 0.0534 0.0352

Neptune 1549-09-09 06:43 J 2287081.75 2287081.78 2287081.83 0.0089 0.0086

Mars 1550-08-28 00:57 J 2287434.42 2287434.54 2287434.65 0.1815 0.0523

Mars 1551-09-23 12:57 J 2287825.91 2287826.04 2287826.18 0.1727 0.0979

Moon 1552-10-28 14:52 J 2288227.02 2288227.12 2288227.21 0.2690 0.1189

Earth 1552-10-28 15:21 J 2288227.04 2288227.14 2288227.23 0.2695 0.1214 *

Jupiter 1555-04-30 16:33 J 2289141.03 2289141.19 2289141.36 0.0491 0.0187

Saturn 1556-06-04 08:38 J 2289541.77 2289541.86 2289541.95 0.0287 0.0205

Saturn 1556-08-31 21:21 J 2289630.26 2289630.39 2289630.52 0.0288 0.0076

Saturn 1556-11-28 09:50 J 2289718.78 2289718.91 2289719.05 0.0288 0.0052

Saturn 1557-02-24 22:19 J 2289807.33 2289807.43 2289807.54 0.0289 0.0180

Uranus 1557-07-01 15:21 J 2289934.05 2289934.14 2289934.24 0.0143 0.0122

Uranus 1557-09-27 23:16 J 2290022.34 2290022.47 2290022.62 0.0143 0.0093

Uranus 1557-12-25 07:26 J 2290110.64 2290110.81 2290110.98 0.0143 0.0063

Uranus 1558-03-23 15:21 J 2290198.96 2290199.14 2290199.33 0.0143 0.0034

Uranus 1558-06-19 23:31 J 2290287.29 2290287.48 2290287.67 0.0143 0.0004

Uranus 1558-09-16 07:40 J 2290375.63 2290375.82 2290376.01 0.0143 0.0026

Uranus 1558-12-13 15:50 J 2290463.98 2290464.16 2290464.33 0.0143 0.0056

Uranus 1559-03-11 23:45 J 2290552.34 2290552.49 2290552.65 0.0143 0.0086

Uranus	**1559-06-08 07:55 J**	**2290640.73**	**2290640.83**	**2290640.95**	**0.0142**	**0.0116**	
Earth	**1559-10-22 15:07 J**	**2290777.12**	**2290777.13**	**2290777.14**	**0.2691**	**0.2666**	
Moon	**1559-10-22 15:50 J**	**2290777.14**	**2290777.16**	**2290777.18**	**0.2689**	**0.2623**	*
Mars	**1560-01-18 10:04 J**	**2290864.83**	**2290864.92**	**2290865.01**	**0.1822**	**0.1148**	
Jupiter	**1561-01-02 17:16 J**	**2291215.14**	**2291215.22**	**2291215.30**	**0.0536**	**0.0404**	
Mars	**1561-02-12 12:00 J**	**2291255.83**	**2291256.00**	**2291256.16**	**0.1720**	**0.0053**	
Jupiter	**1561-04-02 01:26 J**	**2291304.44**	**2291304.56**	**2291304.68**	**0.0535**	**0.0206**	
Mars	**1561-12-23 20:24 J**	**2291570.28**	**2291570.35**	**2291570.43**	**0.1794**	**0.1340**	
Venus	**1565-09-03 04:04 J**	**2292919.58**	**2292919.67**	**2292919.76**	**0.3693**	**0.2826**	
Moon	**1565-10-31 08:09 J**	**2292977.79**	**2292977.84**	**2292977.88**	**0.2698**	**0.2421**	
Earth	**1565-10-31 08:52 J**	**2292977.84**	**2292977.87**	**2292977.89**	**0.2697**	**0.2578**	*
Jupiter	**1567-02-16 14:38 J**	**2293451.00**	**2293451.11**	**2293451.24**	**0.0491**	**0.0354**	
Jupiter	**1567-05-17 19:40 J**	**2293541.18**	**2293541.32**	**2293541.46**	**0.0492**	**0.0316**	
Moon	**1569-04-22 01:55 J**	**2294246.49**	**2294246.58**	**2294246.67**	**0.2643**	**0.2151**	
Earth	**1569-04-22 03:21 J**	**2294246.53**	**2294246.64**	**2294246.75**	**0.2640**	**0.1856**	*
Mars	**1569-06-09 18:57 J**	**2294295.27**	**2294295.29**	**2294295.31**	**0.1829**	**0.1803**	
Venus	**1569-09-02 11:45 J**	**2294379.93**	**2294379.99**	**2294380.06**	**0.3677**	**0.2882**	
Saturn	**1570-04-01 17:02 J**	**2294591.09**	**2294591.21**	**2294591.35**	**0.0274**	**0.0184**	
Saturn	**1570-06-29 12:57 J**	**2294679.87**	**2294680.04**	**2294680.22**	**0.0273**	**0.0039**	
Mars	**1570-07-05 11:02 J**	**2294685.82**	**2294685.96**	**2294686.10**	**0.1713**	**0.0855**	
Saturn	**1570-09-26 09:07 J**	**2294768.71**	**2294768.88**	**2294769.04**	**0.0272**	**0.0107**	
Saturn	**1570-12-24 05:16 J**	**2294857.66**	**2294857.72**	**2294857.79**	**0.0272**	**0.0254**	
Venus	**1571-03-20 09:07 J**	**2294943.74**	**2294943.88**	**2294944.03**	**0.3692**	**0.0534**	
Mars	**1571-05-16 06:14 J**	**2295000.65**	**2295000.76**	**2295000.86**	**0.1801**	**0.0763**	
Earth	**1572-10-24 08:52 J**	**2295527.77**	**2295527.87**	**2295527.96**	**0.2693**	**0.1270**	
Moon	**1572-10-24 09:21 J**	**2295527.79**	**2295527.89**	**2295527.98**	**0.2687**	**0.1178**	*
Jupiter	**1573-01-19 05:02 J**	**2295614.59**	**2295614.71**	**2295614.84**	**0.0536**	**0.0060**	
Venus	**1575-03-19 04:33 J**	**2296403.59**	**2296403.69**	**2296403.78**	**0.3678**	**0.1450**	
Jupiter	**1579-03-05 18:14 J**	**2297851.09**	**2297851.26**	**2297851.43**	**0.0492**	**0.0150**	
Venus	**1580-10-01 20:52 J**	**2298427.27**	**2298427.37**	**2298427.48**	**0.3679**	**0.0101**	

Mars	**1580-10-05 15:35 J**	**2298431.03**	**2298431.15**	**2298431.26**	**0.1808**	**0.0165**	
Moon	**1582-04-25 09:35 J**	**2298997.76**	**2298997.90**	**2298998.05**	**0.2643**	**0.0920**	
Earth	**1582-04-25 10:48 J**	**2298997.80**	**2298997.95**	**2298998.10**	**0.2638**	**0.1017**	*
Jupiter	**1584-11-17 09:21 G**	**2299924.76**	**2299924.89**	**2299925.01**	**0.0536**	**0.0087**	
Jupiter	**1585-02-14 16:48 G**	**2300014.17**	**2300014.20**	**2300014.24**	**0.0534**	**0.0511**	
Saturn	**1585-11-01 09:50 G**	**2300273.85**	**2300273.91**	**2300273.98**	**0.0286**	**0.0249**	
Moon	**1585-11-06 02:09 G**	**2300278.49**	**2300278.59**	**2300278.70**	**0.2687**	**0.0136**	
Earth	**1585-11-06 02:24 G**	**2300278.49**	**2300278.60**	**2300278.71**	**0.2694**	**0.0132**	*
Saturn	**1586-01-28 22:33 G**	**2300362.32**	**2300362.44**	**2300362.56**	**0.0286**	**0.0121**	
Saturn	**1586-04-27 11:02 G**	**2300450.83**	**2300450.96**	**2300451.10**	**0.0287**	**0.0010**	
Venus	**1586-04-27 13:26 G**	**2300450.96**	**2300451.06**	**2300451.15**	**0.3680**	**0.1343**	*
Saturn	**1586-07-24 23:31 G**	**2300539.36**	**2300539.48**	**2300539.60**	**0.0288**	**0.0134**	
Saturn	**1586-10-21 11:45 G**	**2300627.94**	**2300627.99**	**2300628.05**	**0.0289**	**0.0261**	
Mars	**1590-03-08 00:57 G**	**2301861.43**	**2301861.54**	**2301861.65**	**0.1815**	**0.0453**	
Jupiter	**1591-01-01 16:33 G**	**2302161.01**	**2302161.19**	**2302161.37**	**0.0491**	**0.0016**	
Mars	**1591-04-03 13:55 G**	**2302252.96**	**2302253.08**	**2302253.21**	**0.1727**	**0.1086**	
Venus	**1591-11-11 05:31 G**	**2302474.66**	**2302474.73**	**2302474.80**	**0.3681**	**0.2680**	
Jupiter	**1596-09-05 13:11 G**	**2304234.93**	**2304235.05**	**2304235.17**	**0.0536**	**0.0233**	
Jupiter	**1596-12-03 20:52 G**	**2304324.28**	**2304324.37**	**2304324.47**	**0.0535**	**0.0371**	
Moon	**1598-11-08 19:26 G**	**2305029.22**	**2305029.31**	**2305029.41**	**0.2692**	**0.1390**	
Earth	**1598-11-08 20:09 G**	**2305029.25**	**2305029.34**	**2305029.43**	**0.2695**	**0.1499**	*
Mars	**1599-07-29 10:04 G**	**2305291.83**	**2305291.92**	**2305292.02**	**0.1822**	**0.1084**	
Saturn	**1599-08-29 13:40 G**	**2305323.01**	**2305323.07**	**2305323.16**	**0.0274**	**0.0247**	
Saturn	**1599-11-26 09:35 G**	**2305411.74**	**2305411.90**	**2305412.07**	**0.0273**	**0.0103**	
Saturn	**1600-02-23 05:31 G**	**2305500.56**	**2305500.73**	**2305500.91**	**0.0273**	**0.0043**	
Saturn	**1600-05-22 01:40 G**	**2305589.45**	**2305589.57**	**2305589.70**	**0.0272**	**0.0190**	
Mars	**1600-08-23 12:28 G**	**2305682.86**	**2305683.02**	**2305683.19**	**0.1720**	**0.0140**	
Uranus	**1600-10-10 09:50 G**	**2305730.88**	**2305730.91**	**2305730.94**	**0.0135**	**0.0130**	
Uranus	**1601-01-06 12:43 G**	**2305818.97**	**2305819.03**	**2305819.12**	**0.0135**	**0.0114**	
Uranus	**1601-04-04 16:04 G**	**2305907.08**	**2305907.17**	**2305907.27**	**0.0135**	**0.0095**	

Uranus 1601-07-01 19:26 G 2305995.20 2305995.31 2305995.42 0.0135 0.0077

Mars 1601-07-03 20:38 G 2305997.29 2305997.36 2305997.43 0.1794 0.1405

Uranus 1601-09-27 22:33 G 2306083.32 2306083.44 2306083.56 0.0135 0.0060

Uranus 1601-12-25 01:40 G 2306171.45 2306171.57 2306171.70 0.0135 0.0042

Uranus 1602-03-23 04:48 G 2306259.58 2306259.70 2306259.84 0.0136 0.0025

Uranus 1602-06-19 08:09 G 2306347.70 2306347.84 2306347.97 0.0136 0.0007

Uranus 1602-09-15 11:16 G 2306435.84 2306435.97 2306436.10 0.0136 0.0011

Jupiter 1602-10-20 15:21 G 2306470.98 2306471.14 2306471.31 0.0491 0.0176

Uranus 1602-12-12 14:24 G 2306523.97 2306524.10 2306524.23 0.0136 0.0029

Uranus 1603-03-10 17:16 G 2306612.11 2306612.22 2306612.35 0.0136 0.0047

Uranus 1603-06-06 20:38 G 2306700.24 2306700.36 2306700.48 0.0136 0.0064

Uranus 1603-09-02 23:31 G 2306788.39 2306788.48 2306788.60 0.0136 0.0082

Uranus 1603-11-30 02:52 G 2306876.53 2306876.62 2306876.71 0.0136 0.0099

Uranus 1604-02-26 05:45 G 2306964.68 2306964.74 2306964.82 0.0136 0.0117

Uranus 1604-05-24 08:52 G 2307052.86 2307052.87 2307052.90 0.0136 0.0135

Earth 1605-11-01 19:55 G 2307579.28 2307579.33 2307579.38 0.2691 0.2381

Moon 1605-11-01 20:38 G 2307579.30 2307579.36 2307579.42 0.2688 0.2215 *

Jupiter 1608-06-24 16:33 G 2308545.10 2308545.19 2308545.28 0.0536 0.0391

Jupiter 1608-09-22 00:28 G 2308634.41 2308634.52 2308634.64 0.0535 0.0219

Mars 1608-12-18 18:57 G 2308722.26 2308722.29 2308722.33 0.1829 0.1739

Mars 1610-01-13 11:45 G 2309112.84 2309112.99 2309113.13 0.1713 0.0769

Mars 1610-11-24 06:14 G 2309427.65 2309427.76 2309427.86 0.1801 0.0824

Jupiter 1614-08-08 14:09 G 2310780.96 2310781.09 2310781.22 0.0491 0.0336

Jupiter 1614-11-06 19:11 G 2310871.17 2310871.30 2310871.44 0.0492 0.0336

Moon 1615-05-03 08:24 G 2311048.72 2311048.85 2311048.99 0.2643 0.1394

Earth 1615-05-03 10:04 G 2311048.78 2311048.92 2311049.06 0.2640 0.1306 *

Saturn 1615-06-17 23:45 G 2311094.38 2311094.49 2311094.60 0.0287 0.0165

Saturn 1615-09-14 12:28 G 2311182.88 2311183.02 2311183.15 0.0287 0.0037

Saturn 1615-12-12 00:57 G 2311271.41 2311271.54 2311271.67 0.0288 0.0091

Saturn 1616-03-09 13:11 G 2311359.97 2311360.05 2311360.14 0.0289 0.0219

Earth 1618-11-04 13:40 G 2312329.97 2312330.07 2312330.17 0.2693 0.0985

Moon 1618-11-04 13:55 G 2312329.98 2312330.08 2312330.18 0.2687 0.0975 *

Mars 1619-06-05 11:16 G 2312542.93 2312542.97 2312543.02 0.1707 0.1630

Mars 1620-04-15 15:35 G 2312858.04 2312858.15 2312858.26 0.1808 0.0224

Jupiter 1620-07-11 04:19 G 2312944.55 2312944.68 2312944.81 0.0535 0.0070

Venus 1622-04-20 05:02 G 2313592.59 2313592.71 2313592.84 0.3693 0.1797

Venus 1626-04-19 09:35 G 2315052.82 2315052.90 2315052.98 0.3677 0.2396

Neptune 1626-08-21 23:02 G 2315177.45 2315177.46 2315177.50 0.0088 0.0087

Jupiter 1626-08-25 17:02 G 2315181.05 2315181.21 2315181.39 0.0491 0.0164

Neptune 1626-11-18 02:09 G 2315265.52 2315265.59 2315265.69 0.0088 0.0078

Neptune 1627-02-14 05:16 G 2315353.62 2315353.72 2315353.85 0.0088 0.0069

Neptune 1627-05-13 08:24 G 2315441.73 2315441.85 2315442.00 0.0088 0.0060

Neptune 1627-08-09 11:31 G 2315529.85 2315529.98 2315530.15 0.0088 0.0051

Venus 1627-11-04 10:19 G 2315616.80 2315616.93 2315617.06 0.3691 0.1608

Neptune 1627-11-05 14:38 G 2315617.96 2315618.11 2315618.29 0.0088 0.0042

Neptune 1628-02-01 18:14 G 2315706.09 2315706.26 2315706.43 0.0088 0.0032

Neptune 1628-04-29 21:07 G 2315794.21 2315794.38 2315794.57 0.0088 0.0023

Moon 1628-05-05 16:48 G 2315800.07 2315800.20 2315800.33 0.2644 0.1435

Earth 1628-05-05 17:31 G 2315800.10 2315800.23 2315800.35 0.2638 0.1582 *

Neptune 1628-07-27 00:28 G 2315882.34 2315882.52 2315882.71 0.0088 0.0014

Neptune 1628-10-23 03:35 G 2315970.47 2315970.65 2315970.84 0.0088 0.0005

Neptune 1629-01-19 06:57 G 2316058.60 2316058.79 2316058.97 0.0088 0.0005

Saturn 1629-04-14 09:35 G 2316143.75 2316143.90 2316144.05 0.0274 0.0141

Neptune 1629-04-17 10:04 G 2316146.74 2316146.92 2316147.11 0.0088 0.0014

Saturn 1629-07-12 05:31 G 2316232.55 2316232.73 2316232.91 0.0273 0.0005

Neptune 1629-07-14 12:57 G 2316234.87 2316235.04 2316235.23 0.0088 0.0024

Mars 1629-09-06 00:57 G 2316288.43 2316288.54 2316288.65 0.1815 0.0393

Saturn 1629-10-09 01:40 G 2316321.42 2316321.57 2316321.72 0.0273 0.0151

Neptune 1629-10-10 16:19 G 2316323.01 2316323.18 2316323.36 0.0088 0.0033

Neptune 1630-01-06 19:40 G 2316411.16 2316411.32 2316411.49 0.0088 0.0042

Neptune 1630-04-04 22:33 G 2316499.31 2316499.44 2316499.61 0.0088 0.0052

Neptune 1630-07-02 02:09 G 2316587.46 2316587.59 2316587.73 0.0088 0.0061

Neptune 1630-09-28 05:02 G 2316675.62 2316675.71 2316675.84 0.0088 0.0071

Mars 1630-10-02 14:52 G 2316680.00 2316680.12 2316680.24 0.1727 0.1182

Neptune 1630-12-25 08:24 G 2316763.79 2316763.85 2316763.94 0.0088 0.0080

Venus 1631-11-03 02:09 G 2317076.49 2317076.59 2317076.69 0.3678 0.0974

Moon 1631-11-07 06:57 G 2317080.68 2317080.79 2317080.90 0.2687 0.0397

Earth 1631-11-07 07:11 G 2317080.69 2317080.80 2317080.91 0.2694 0.0408 *

Jupiter 1632-04-29 07:55 G 2317254.70 2317254.83 2317254.96 0.0536 0.0084

Jupiter 1632-07-27 15:35 G 2317344.12 2317344.15 2317344.18 0.0535 0.0514

Venus 1637-05-18 18:43 G 2319100.17 2319100.28 2319100.38 0.3679 0.0430

Jupiter 1638-06-13 15:50 G 2319490.98 2319491.16 2319491.34 0.0491 0.0009

Mars 1639-01-27 10:04 G 2319718.83 2319718.92 2319719.02 0.1822 0.1024

Mars 1640-02-22 13:26 G 2320109.89 2320110.06 2320110.22 0.1720 0.0239

Mars 1641-01-01 20:24 G 2320424.29 2320424.35 2320424.42 0.1794 0.1461

Uranus 1641-05-04 15:21 G 2320547.13 2320547.14 2320547.17 0.0143 0.0142

Uranus 1641-07-31 23:16 G 2320635.37 2320635.47 2320635.60 0.0143 0.0113

Uranus 1641-10-28 07:26 G 2320723.66 2320723.81 2320723.97 0.0143 0.0083

Uranus 1642-01-24 15:21 G 2320811.97 2320812.14 2320812.32 0.0143 0.0054

Uranus 1642-04-22 23:31 G 2320900.29 2320900.48 2320900.67 0.0143 0.0024

Uranus 1642-07-20 07:26 G 2320988.62 2320988.81 2320989.01 0.0143 0.0007

Uranus 1642-10-16 15:35 G 2321076.97 2321077.15 2321077.34 0.0143 0.0035

Venus 1642-12-02 11:02 G 2321123.87 2321123.96 2321124.05 0.3680 0.1786

Uranus 1643-01-12 23:31 G 2321165.32 2321165.48 2321165.66 0.0143 0.0066

Uranus 1643-04-11 07:40 G 2321253.69 2321253.82 2321253.97 0.0142 0.0095

Uranus 1643-07-08 15:35 G 2321342.08 2321342.15 2321342.26 0.0142 0.0126

Jupiter 1644-02-16 11:45 G 2321564.88 2321564.99 2321565.11 0.0537 0.0230

Jupiter 1644-05-15 19:40 G 2321654.24 2321654.32 2321654.42 0.0535 0.0376

Saturn 1644-11-04 01:11 G 2321826.46 2321826.55 2321826.65 0.0286 0.0207

Moon 1644-11-09 00:14 G 2321831.43 2321831.51 2321831.59 0.2693 0.1685

Earth	1644-11-09 00:57 G	2321831.46	2321831.54	2321831.62	0.2696	0.1781	*
Saturn	1645-01-31 13:55 G	2321914.95	2321915.08	2321915.21	0.0286	0.0079	
Saturn	1645-04-30 02:24 G	2322003.47	2322003.60	2322003.74	0.0287	0.0050	
Saturn	1645-07-27 14:52 G	2322092.02	2322092.12	2322092.23	0.0288	0.0176	
Venus	1648-06-17 03:07 G	2323147.58	2323147.63	2323147.69	0.3681	0.3118	
Mars	1648-06-18 19:11 G	2323149.25	2323149.30	2323149.34	0.1829	0.1672	
Mars	1649-07-14 12:28 G	2323539.87	2323540.02	2323540.17	0.1713	0.0671	
Jupiter	1650-04-01 14:09 G	2323800.92	2323801.09	2323801.26	0.0491	0.0166	
Mars	1650-05-25 06:14 G	2323854.66	2323854.76	2323854.86	0.1801	0.0883	
Earth	1651-11-03 00:43 G	2324381.47	2324381.53	2324381.60	0.2691	0.2089	
Moon	1651-11-03 01:26 G	2324381.49	2324381.56	2324381.63	0.2688	0.2054	*
Jupiter	1655-12-05 15:50 G	2325875.07	2325875.16	2325875.25	0.0537	0.0376	
Jupiter	1656-03-04 00:00 G	2325964.38	2325964.50	2325964.61	0.0535	0.0234	
Saturn	1658-09-01 06:28 G	2326875.66	2326875.77	2326875.89	0.0274	0.0202	
Saturn	1658-11-29 02:24 G	2326964.43	2326964.60	2326964.77	0.0274	0.0058	
Mars	1658-12-04 11:45 G	2326969.93	2326969.99	2326970.06	0.1707	0.1551	
Saturn	1659-02-25 22:19 G	2327053.27	2327053.43	2327053.61	0.0273	0.0089	
Saturn	1659-05-25 18:43 G	2327142.19	2327142.28	2327142.37	0.0272	0.0235	
Mars	1659-10-15 15:35 G	2327285.04	2327285.15	2327285.27	0.1808	0.0290	
Moon	1661-05-03 15:21 G	2327850.99	2327851.14	2327851.28	0.2643	0.1037	
Earth	1661-05-03 16:48 G	2327851.05	2327851.20	2327851.35	0.2640	0.0736	*
Jupiter	1662-01-18 12:57 G	2328110.91	2328111.04	2328111.18	0.0491	0.0325	
Jupiter	1662-04-18 18:00 G	2328201.12	2328201.25	2328201.38	0.0492	0.0346	
Earth	1664-11-04 18:28 G	2329132.16	2329132.27	2329132.37	0.2693	0.0700	
Moon	1664-11-04 18:28 G	2329132.17	2329132.27	2329132.38	0.2686	0.0626	*
Jupiter	1667-09-23 18:57 G	2330185.29	2330185.29	2330185.30	0.0537	0.0535	
Jupiter	1667-12-22 03:35 G	2330274.52	2330274.65	2330274.77	0.0535	0.0083	
Mars	1669-03-07 00:57 G	2330715.43	2330715.54	2330715.66	0.1815	0.0327	
Mars	1670-04-02 15:21 G	2331107.03	2331107.14	2331107.26	0.1728	0.1275	
Jupiter	1673-11-06 12:00 G	2332420.97	2332421.00	2332421.03	0.0491	0.0483	

Jupiter	1674-02-04 16:19 G	2332511.02	2332511.18	2332511.35	0.0492	0.0180	
Saturn	1674-03-24 02:38 G	2332558.54	2332558.61	2332558.67	0.0286	0.0249	
Moon	1674-05-06 23:45 G	2332602.40	2332602.49	2332602.57	0.2644	0.2202	
Earth	1674-05-07 00:14 G	2332602.42	2332602.51	2332602.60	0.2638	0.2150	*
Saturn	1674-06-20 15:21 G	2332647.01	2332647.14	2332647.26	0.0287	0.0121	
Saturn	1674-09-17 03:50 G	2332735.53	2332735.66	2332735.80	0.0287	0.0007	
Saturn	1674-12-14 16:19 G	2332824.06	2332824.18	2332824.30	0.0288	0.0134	
Saturn	1675-03-13 04:33 G	2332912.64	2332912.69	2332912.75	0.0289	0.0260	
Venus	1677-05-10 14:38 G	2333702.07	2333702.11	2333702.15	0.3677	0.3363	
Moon	1677-11-07 11:45 G	2333882.89	2333882.99	2333883.10	0.2688	0.0614	
Earth	1677-11-07 12:00 G	2333882.90	2333883.00	2333883.11	0.2694	0.0692	*
Mars	1678-07-28 10:04 G	2334145.82	2334145.92	2334146.02	0.1822	0.0960	
Venus	1678-11-25 06:14 G	2334265.62	2334265.76	2334265.90	0.3692	0.0748	
Mars	1679-08-23 14:09 G	2334536.93	2334537.09	2334537.26	0.1721	0.0339	
Jupiter	1679-10-10 07:11 G	2334584.67	2334584.80	2334584.92	0.0536	0.0073	
Jupiter	1680-01-07 14:38 G	2334674.09	2334674.11	2334674.13	0.0534	0.0525	
Mars	1680-07-02 20:24 G	2334851.29	2334851.35	2334851.41	0.1794	0.1520	
Venus	1682-11-24 07:26 G	2335725.72	2335725.81	2335725.90	0.3678	0.1917	
Venus	1684-06-10 11:31 G	2336289.88	2336289.98	2336290.08	0.3691	0.2699	
Uranus	1684-10-30 16:48 G	2336432.16	2336432.20	2336432.25	0.0135	0.0127	
Uranus	1685-01-26 19:55 G	2336520.26	2336520.33	2336520.42	0.0135	0.0109	
Uranus	1685-04-24 23:16 G	2336608.37	2336608.47	2336608.57	0.0135	0.0091	
Uranus	1685-07-22 02:38 G	2336696.49	2336696.61	2336696.72	0.0135	0.0074	
Uranus	1685-10-18 05:31 G	2336784.62	2336784.73	2336784.86	0.0135	0.0056	
Jupiter	1685-11-23 14:38 G	2336820.93	2336821.11	2336821.29	0.0491	0.0012	
Uranus	1686-01-14 08:52 G	2336872.74	2336872.87	2336873.00	0.0135	0.0038	
Uranus	1686-04-12 12:00 G	2336960.87	2336961.00	2336961.13	0.0136	0.0021	
Uranus	1686-07-09 15:07 G	2337049.00	2337049.13	2337049.26	0.0136	0.0003	
Uranus	1686-10-05 18:14 G	2337137.13	2337137.26	2337137.39	0.0136	0.0015	
Uranus	1687-01-01 21:21 G	2337225.26	2337225.39	2337225.52	0.0136	0.0033	

Uranus	1687-03-31 00:28 G	2337313.40	2337313.52	2337313.65	0.0136	0.0050
Uranus	1687-06-27 03:35 G	2337401.54	2337401.65	2337401.77	0.0136	0.0068
Uranus	1687-09-23 06:43 G	2337489.68	2337489.78	2337489.89	0.0136	0.0085
Mars	1687-12-18 19:11 G	2337576.24	2337576.30	2337576.35	0.1829	0.1612
Uranus	1687-12-20 09:50 G	2337577.83	2337577.91	2337578.00	0.0136	0.0103
Saturn	1688-01-19 06:28 G	2337607.70	2337607.77	2337607.86	0.0275	0.0242
Uranus	1688-03-17 12:57 G	2337665.99	2337666.04	2337666.10	0.0136	0.0120
Saturn	1688-04-17 02:24 G	2337696.43	2337696.60	2337696.77	0.0274	0.0097
Venus	1688-06-09 00:00 G	2337749.39	2337749.50	2337749.60	0.3679	0.0519
Saturn	1688-07-14 22:19 G	2337785.26	2337785.43	2337785.61	0.0273	0.0050
Saturn	1688-10-11 18:28 G	2337874.15	2337874.27	2337874.40	0.0273	0.0197
Mars	1689-01-12 13:11 G	2337966.89	2337967.05	2337967.20	0.1713	0.0580
Mars	1689-11-23 06:14 G	2338281.66	2338281.76	2338281.85	0.1801	0.0944
Moon	1690-11-10 04:48 G	2338633.63	2338633.70	2338633.78	0.2694	0.1977
Earth	1690-11-10 05:31 G	2338633.67	2338633.73	2338633.80	0.2696	0.2061 *
Jupiter	1691-07-29 10:19 G	2338894.82	2338894.93	2338895.05	0.0537	0.0230
Jupiter	1691-10-26 18:14 G	2338984.17	2338984.26	2338984.35	0.0535	0.0377
Venus	1693-12-23 16:19 G	2339773.08	2339773.18	2339773.28	0.3679	0.0879
Jupiter	1697-09-11 13:11 G	2341130.88	2341131.05	2341131.22	0.0491	0.0151
Earth	1697-11-03 05:31 G	2341183.65	2341183.73	2341183.81	0.2692	0.1801
Moon	1697-11-03 06:14 G	2341183.67	2341183.76	2341183.84	0.2688	0.1654 *
Pluto	1697-11-17 03:35 G	2341197.64	2341197.65	2341197.70	0.0071	0.0069
Pluto	1698-02-13 04:33 G	2341285.63	2341285.69	2341285.78	0.0071	0.0061
Pluto	1698-05-12 05:31 G	2341373.64	2341373.73	2341373.83	0.0072	0.0052
Mars	1698-06-04 12:43 G	2341396.95	2341397.03	2341397.12	0.1707	0.1447
Pluto	1698-08-08 06:28 G	2341461.66	2341461.77	2341461.89	0.0072	0.0043
Pluto	1698-11-04 07:26 G	2341549.69	2341549.81	2341549.94	0.0072	0.0034
Pluto	1699-01-31 08:24 G	2341637.72	2341637.85	2341637.98	0.0072	0.0025
Mars	1699-04-15 15:35 G	2341712.04	2341712.15	2341712.26	0.1808	0.0347
Pluto	1699-04-29 09:21 G	2341725.75	2341725.89	2341726.03	0.0072	0.0016

Venus	1699-07-09 08:38 G	2341796.78	2341796.86	2341796.94	0.3681	0.2223
Pluto	1699-07-26 10:04 G	2341813.78	2341813.92	2341814.07	0.0072	0.0008
Pluto	1699-10-22 11:02 G	2341901.82	2341901.96	2341902.11	0.0072	0.0003
Pluto	1700-01-18 12:00 G	2341989.86	2341990.00	2341990.14	0.0072	0.0012
Pluto	1700-04-16 12:57 G	2342077.91	2342078.04	2342078.18	0.0072	0.0021
Pluto	1700-07-13 13:40 G	2342165.95	2342166.07	2342166.21	0.0073	0.0031
Pluto	1700-10-09 14:38 G	2342254.00	2342254.11	2342254.24	0.0073	0.0040
Pluto	1701-01-05 15:50 G	2342342.06	2342342.16	2342342.27	0.0073	0.0049
Pluto	1701-04-03 16:33 G	2342430.12	2342430.19	2342430.28	0.0073	0.0059
Pluto	1701-06-30 17:31 G	2342518.20	2342518.23	2342518.29	0.0073	0.0069
Jupiter	1703-05-18 14:09 G	2343205.00	2343205.09	2343205.19	0.0537	0.0377
Jupiter	1703-08-15 22:33 G	2343294.32	2343294.44	2343294.55	0.0536	0.0236
Saturn	1703-11-08 17:16 G	2343379.11	2343379.22	2343379.33	0.0286	0.0159
Saturn	1704-02-05 05:45 G	2343467.61	2343467.74	2343467.88	0.0286	0.0033
Saturn	1704-05-03 18:14 G	2343556.14	2343556.26	2343556.39	0.0287	0.0095
Saturn	1704-07-31 06:43 G	2343644.69	2343644.78	2343644.86	0.0288	0.0221
Venus	1705-01-23 00:43 G	2343820.51	2343820.53	2343820.56	0.3681	0.3552
Moon	1707-05-05 22:04 G	2344653.26	2344653.42	2344653.58	0.2643	0.0251
Earth	1707-05-05 23:31 G	2344653.32	2344653.48	2344653.63	0.2640	0.0196 *
Neptune	1708-09-02 19:11 G	2345139.26	2345139.30	2345139.36	0.0089	0.0084
Mars	1708-09-06 00:57 G	2345142.43	2345142.54	2345142.66	0.1815	0.0266
Neptune	1708-11-29 20:38 G	2345227.30	2345227.36	2345227.44	0.0089	0.0077
Neptune	1709-02-25 22:04 G	2345315.35	2345315.42	2345315.52	0.0089	0.0070
Neptune	1709-05-24 23:45 G	2345403.40	2345403.49	2345403.60	0.0089	0.0062
Jupiter	1709-07-01 11:31 G	2345440.85	2345440.98	2345441.12	0.0491	0.0316
Neptune	1709-08-21 01:11 G	2345491.45	2345491.55	2345491.67	0.0089	0.0055
Jupiter	1709-09-29 16:19 G	2345531.06	2345531.18	2345531.31	0.0492	0.0354
Mars	1709-10-02 16:19 G	2345534.08	2345534.18	2345534.28	0.1728	0.1377
Neptune	1709-11-17 02:38 G	2345579.51	2345579.61	2345579.74	0.0089	0.0048
Neptune	1710-02-13 04:33 G	2345667.56	2345667.69	2345667.81	0.0089	0.0040

Neptune 1710-05-12 06:00 G 2345755.62 2345755.75 2345755.88 0.0089 0.0033

Neptune 1710-08-08 07:26 G 2345843.68 2345843.81 2345843.94 0.0089 0.0025

Neptune 1710-11-04 08:52 G 2345931.74 2345931.87 2345932.01 0.0089 0.0018

Moon 1710-11-06 23:16 G 2345934.36 2345934.47 2345934.58 0.2686 0.0459

Earth 1710-11-06 23:16 G 2345934.36 2345934.47 2345934.58 0.2693 0.0407 *

Neptune 1711-01-31 10:19 G 2346019.80 2346019.93 2346020.07 0.0089 0.0011

Neptune 1711-04-29 12:00 G 2346107.86 2346108.00 2346108.13 0.0089 0.0005

Neptune 1711-07-26 13:26 G 2346195.92 2346196.06 2346196.19 0.0089 0.0004

Neptune 1711-10-22 14:52 G 2346283.98 2346284.12 2346284.25 0.0089 0.0011

Neptune 1712-01-18 16:19 G 2346372.04 2346372.18 2346372.31 0.0089 0.0018

Neptune 1712-04-15 17:45 G 2346460.11 2346460.24 2346460.37 0.0089 0.0025

Neptune 1712-07-12 19:11 G 2346548.17 2346548.30 2346548.43 0.0089 0.0032

Neptune 1712-10-08 20:24 G 2346636.24 2346636.35 2346636.48 0.0089 0.0039

Neptune 1713-01-04 21:50 G 2346724.30 2346724.41 2346724.54 0.0089 0.0046

Neptune 1713-04-02 23:16 G 2346812.37 2346812.47 2346812.59 0.0089 0.0053

Neptune 1713-06-30 00:43 G 2346900.44 2346900.53 2346900.64 0.0089 0.0060

Neptune 1713-09-26 02:09 G 2346988.51 2346988.59 2346988.69 0.0089 0.0067

Neptune 1713-12-23 03:35 G 2347076.58 2347076.65 2347076.73 0.0089 0.0074

Neptune 1714-03-21 04:48 G 2347164.66 2347164.70 2347164.77 0.0089 0.0082

Neptune 1714-06-17 06:14 G 2347252.76 2347252.76 2347252.80 0.0089 0.0089

Jupiter 1715-03-06 18:00 G 2347515.23 2347515.25 2347515.28 0.0537 0.0525

Jupiter 1715-06-04 02:38 G 2347604.48 2347604.61 2347604.73 0.0536 0.0093

Saturn 1717-09-04 23:45 G 2348428.35 2348428.49 2348428.64 0.0274 0.0155

Saturn 1717-12-02 19:40 G 2348517.14 2348517.32 2348517.50 0.0274 0.0010

Mars 1718-01-27 10:19 G 2348572.83 2348572.93 2348573.03 0.1822 0.0891

Saturn 1718-03-01 15:50 G 2348606.00 2348606.16 2348606.31 0.0273 0.0137

Mars 1719-02-22 14:38 G 2348963.95 2348964.11 2348964.27 0.1720 0.0421

Mars 1720-01-02 20:38 G 2349278.30 2349278.36 2349278.41 0.1794 0.1584

Moon 1720-05-08 06:43 G 2349404.75 2349404.78 2349404.80 0.2645 0.2598

Jupiter 1721-04-19 10:33 G 2349750.90 2349750.94 2349750.98 0.0490 0.0474

Jupiter	1721-07-18 14:52 G	2349840.96	2349841.12	2349841.29	0.0492	0.0188
Moon	1723-11-09 16:33 G	2350685.08	2350685.19	2350685.29	0.2689	0.0965
Earth	1723-11-09 16:48 G	2350685.10	2350685.20	2350685.30	0.2694	0.0973 *
Uranus	1725-05-25 23:31 G	2351248.42	2351248.48	2351248.55	0.0143	0.0133
Uranus	1725-08-22 07:26 G	2351336.69	2351336.81	2351336.94	0.0143	0.0103
Uranus	1725-11-18 15:21 G	2351424.98	2351425.14	2351425.31	0.0143	0.0074
Uranus	1726-02-14 23:31 G	2351513.30	2351513.48	2351513.66	0.0143	0.0044
Uranus	1726-05-14 07:26 G	2351601.62	2351601.81	2351602.00	0.0143	0.0015
Uranus	1726-08-10 15:35 G	2351689.96	2351690.15	2351690.34	0.0143	0.0015
Uranus	1726-11-06 23:31 G	2351778.30	2351778.48	2351778.67	0.0143	0.0045
Uranus	1727-02-03 07:40 G	2351866.66	2351866.82	2351866.99	0.0143	0.0075
Jupiter	1727-03-23 06:00 G	2351914.62	2351914.75	2351914.88	0.0536	0.0063
Uranus	1727-05-02 15:50 G	2351955.03	2351955.16	2351955.29	0.0143	0.0105
Mars	1727-06-19 19:11 G	2352003.24	2352003.30	2352003.36	0.1829	0.1547
Jupiter	1727-06-20 13:40 G	2352004.07	2352004.07	2352004.07	0.0534	0.0534
Uranus	1727-07-29 23:45 G	2352043.44	2352043.49	2352043.56	0.0142	0.0135
Mars	1728-07-14 13:55 G	2352393.92	2352394.08	2352394.24	0.1714	0.0482
Mars	1729-05-25 06:14 G	2352708.66	2352708.76	2352708.85	0.1800	0.1006
Venus	1729-12-17 02:24 G	2352914.52	2352914.60	2352914.68	0.3693	0.2999
Saturn	1733-03-27 18:28 G	2354111.18	2354111.27	2354111.37	0.0286	0.0202
Jupiter	1733-05-06 13:26 G	2354150.88	2354151.06	2354151.24	0.0491	0.0024
Saturn	1733-06-24 07:11 G	2354199.67	2354199.80	2354199.93	0.0287	0.0074
Saturn	1733-09-20 19:40 G	2354288.19	2354288.32	2354288.46	0.0288	0.0053
Venus	1733-12-16 12:28 G	2354374.95	2354375.02	2354375.08	0.3677	0.2877
Saturn	1733-12-18 07:55 G	2354376.73	2354376.83	2354376.94	0.0288	0.0181
Venus	1735-07-03 07:11 G	2354938.66	2354938.80	2354938.95	0.3692	0.0311
Moon	1736-11-11 09:35 G	2355435.84	2355435.90	2355435.96	0.2694	0.2210
Earth	1736-11-11 10:19 G	2355435.88	2355435.93	2355435.98	0.2696	0.2340 *
Mars	1737-12-04 13:26 G	2355823.96	2355824.06	2355824.16	0.1707	0.1359
Mars	1738-10-15 15:35 G	2356139.04	2356139.15	2356139.26	0.1808	0.0409

Jupiter	1739-01-09 09:35 G	2356224.78	2356224.90	2356225.02	0.0536	0.0216	
Jupiter	1739-04-08 17:16 G	2356314.14	2356314.22	2356314.31	0.0535	0.0388	
Venus	1739-07-02 05:02 G	2356398.61	2356398.71	2356398.81	0.3678	0.1449	
Earth	1740-05-02 22:48 G	2356704.40	2356704.45	2356704.51	0.2641	0.2475	
Earth	1743-11-05 10:19 G	2357985.84	2357985.93	2357986.02	0.2692	0.1511	
Moon	1743-11-05 10:48 G	2357985.86	2357985.95	2357986.04	0.2687	0.1483	*
Venus	1745-01-14 21:35 G	2358422.29	2358422.40	2358422.51	0.3679	0.0051	
Jupiter	1745-02-22 12:00 G	2358460.83	2358461.00	2358461.17	0.0491	0.0142	
Saturn	1747-01-23 00:00 G	2359160.38	2359160.50	2359160.63	0.0275	0.0193	
Saturn	1747-04-21 19:55 G	2359249.15	2359249.33	2359249.50	0.0274	0.0048	
Saturn	1747-07-19 15:50 G	2359338.00	2359338.16	2359338.33	0.0273	0.0099	
Saturn	1747-10-16 12:14 G	2359426.94	2359427.01	2359427.09	0.0273	0.0247	
Mars	1748-03-07 00:57 G	2359569.43	2359569.54	2359569.66	0.1815	0.0208	
Mars	1749-04-02 17:02 G	2359961.13	2359961.21	2359961.30	0.1728	0.1476	
Venus	1750-07-31 13:55 G	2360445.98	2360446.08	2360446.18	0.3680	0.1323	
Jupiter	1750-10-28 12:28 G	2360534.93	2360535.02	2360535.12	0.0537	0.0380	
Jupiter	1751-01-25 20:52 G	2360624.25	2360624.37	2360624.48	0.0536	0.0233	
Moon	1753-05-06 05:02 G	2361455.56	2361455.71	2361455.87	0.2644	0.0184	
Earth	1753-05-06 06:00 G	2361455.60	2361455.75	2361455.91	0.2639	0.0386	*
Venus	1756-02-14 06:14 G	2362469.69	2362469.76	2362469.83	0.3681	0.2665	
Moon	1756-11-07 04:04 G	2362736.56	2362736.67	2362736.78	0.2686	0.0056	
Earth	1756-11-07 04:04 G	2362736.56	2362736.67	2362736.78	0.2693	0.0122	*
Jupiter	1756-12-11 10:33 G	2362770.81	2362770.94	2362771.08	0.0490	0.0303	
Jupiter	1757-03-11 15:35 G	2362861.03	2362861.15	2362861.27	0.0492	0.0366	
Mars	1757-07-28 10:04 G	2362999.82	2362999.92	2363000.03	0.1822	0.0837	
Mars	1758-08-23 15:35 G	2363390.99	2363391.15	2363391.31	0.1721	0.0530	
Mars	1759-07-03 20:24 G	2363705.31	2363705.35	2363705.40	0.1793	0.1641	
Saturn	1762-08-14 21:07 G	2364843.30	2364843.38	2364843.46	0.0285	0.0233	
Jupiter	1762-08-16 16:19 G	2364845.16	2364845.18	2364845.20	0.0538	0.0530	
Saturn	1762-11-11 09:50 G	2364931.78	2364931.91	2364932.03	0.0286	0.0107	

Jupiter 1762-11-14 00:57 G 2364934.41 2364934.54 2364934.66 0.0536 0.0090

Saturn 1763-02-07 22:19 G 2365020.29 2365020.43 2365020.56 0.0286 0.0020

Saturn 1763-05-07 10:33 G 2365108.83 2365108.94 2365109.06 0.0287 0.0147

Saturn 1763-08-03 23:02 G 2365197.42 2365197.46 2365197.50 0.0288 0.0271

Mars 1766-12-18 19:11 G 2366430.24 2366430.30 2366430.37 0.1829 0.1476

Mars 1768-01-13 14:38 G 2366820.95 2366821.11 2366821.27 0.1714 0.0393

Jupiter 1768-09-29 08:52 G 2367080.83 2367080.87 2367080.93 0.0490 0.0468

Uranus 1768-11-21 00:00 G 2367133.45 2367133.50 2367133.56 0.0135 0.0122

Mars 1768-11-23 06:14 G 2367135.67 2367135.76 2367135.85 0.1801 0.1064

Jupiter 1768-12-28 13:11 G 2367170.89 2367171.05 2367171.22 0.0491 0.0194

Uranus 1769-02-17 03:21 G 2367221.56 2367221.64 2367221.73 0.0135 0.0104

Uranus 1769-05-16 06:28 G 2367309.67 2367309.77 2367309.88 0.0135 0.0087

Uranus 1769-08-12 09:35 G 2367397.79 2367397.90 2367398.02 0.0135 0.0069

Uranus 1769-11-08 12:57 G 2367485.92 2367486.04 2367486.16 0.0135 0.0051

Moon 1769-11-09 21:07 G 2367487.28 2367487.38 2367487.48 0.2691 0.1118

Earth 1769-11-09 21:35 G 2367487.31 2367487.40 2367487.50 0.2695 0.1260 *

Uranus 1770-02-04 16:04 G 2367574.04 2367574.17 2367574.30 0.0135 0.0034

Uranus 1770-05-03 19:11 G 2367662.17 2367662.30 2367662.44 0.0135 0.0016

Uranus 1770-07-30 22:19 G 2367750.30 2367750.43 2367750.57 0.0136 0.0005

Uranus 1770-10-27 01:26 G 2367838.43 2367838.56 2367838.70 0.0136 0.0020

Uranus 1771-01-23 04:48 G 2367926.57 2367926.70 2367926.82 0.0136 0.0037

Uranus 1771-04-21 07:40 G 2368014.71 2368014.82 2368014.95 0.0136 0.0055

Uranus 1771-07-18 11:02 G 2368102.85 2368102.96 2368103.07 0.0136 0.0072

Uranus 1771-10-14 13:55 G 2368190.99 2368191.08 2368191.18 0.0136 0.0090

Uranus 1772-01-10 17:02 G 2368279.14 2368279.21 2368279.30 0.0136 0.0108

Uranus 1772-04-07 20:09 G 2368367.30 2368367.34 2368367.40 0.0136 0.0125

Jupiter 1774-09-02 05:02 G 2369244.58 2369244.71 2369244.83 0.0536 0.0058

Saturn 1776-06-10 21:50 G 2369892.34 2369892.41 2369892.49 0.0275 0.0246

Saturn 1776-09-07 17:31 G 2369981.07 2369981.23 2369981.40 0.0274 0.0103

Earth 1776-11-02 21:35 G 2370037.38 2370037.40 2370037.42 0.2690 0.2626

Moon	1776-11-02 22:19 G	2370037.39	2370037.43	2370037.46	0.2690	0.2529	*
Saturn	1776-12-05 13:40 G	2370069.89	2370070.07	2370070.25	0.0273	0.0044	
Saturn	1777-03-04 09:50 G	2370158.78	2370158.91	2370159.04	0.0273	0.0191	
Mars	1777-06-04 13:55 G	2370250.97	2370251.08	2370251.19	0.1707	0.1274	
Mars	1778-04-15 15:50 G	2370566.04	2370566.16	2370566.27	0.1808	0.0479	
Jupiter	1780-10-16 11:45 G	2371480.81	2371480.99	2371481.17	0.0491	0.0028	
Moon	1782-11-12 14:24 G	2372238.07	2372238.10	2372238.13	0.2695	0.2563	
Earth	1782-11-12 15:07 G	2372238.11	2372238.13	2372238.15	0.2696	0.2622	*
Pluto	1783-07-12 19:40 G	2372480.23	2372480.32	2372480.41	0.0072	0.0062	
Pluto	1783-10-08 21:07 G	2372568.27	2372568.38	2372568.53	0.0072	0.0051	
Pluto	1784-01-04 23:16 G	2372656.33	2372656.47	2372656.63	0.0072	0.0038	
Pluto	1784-04-02 01:11 G	2372744.39	2372744.55	2372744.73	0.0072	0.0027	
Pluto	1784-06-29 03:07 G	2372832.46	2372832.63	2372832.81	0.0072	0.0015	
Pluto	1784-09-25 05:02 G	2372920.54	2372920.71	2372920.89	0.0072	0.0004	
Pluto	1784-12-22 06:57 G	2373008.62	2373008.79	2373008.97	0.0072	0.0008	
Pluto	1785-03-20 08:52 G	2373096.70	2373096.87	2373097.04	0.0072	0.0019	
Pluto	1785-06-16 10:19 G	2373184.79	2373184.93	2373185.11	0.0071	0.0031	
Pluto	1785-09-12 12:14 G	2373272.88	2373273.01	2373273.17	0.0071	0.0041	
Pluto	1785-12-09 13:55 G	2373360.98	2373361.08	2373361.22	0.0071	0.0053	
Pluto	1786-03-07 15:35 G	2373449.09	2373449.15	2373449.25	0.0071	0.0063	
Moon	1786-05-04 03:50 G	2373506.57	2373506.66	2373506.75	0.2642	0.2135	
Earth	1786-05-04 05:31 G	2373506.62	2373506.73	2373506.84	0.2641	0.1919	*
Jupiter	1786-06-21 08:24 G	2373554.73	2373554.85	2373554.97	0.0536	0.0210	
Venus	1786-07-24 03:21 G	2373587.52	2373587.64	2373587.76	0.3693	0.1981	
Jupiter	1786-09-18 16:19 G	2373644.09	2373644.18	2373644.26	0.0535	0.0393	
Mars	1787-09-06 00:57 G	2373996.43	2373996.54	2373996.66	0.1815	0.0147	
Mars	1788-10-01 17:45 G	2374388.17	2374388.24	2374388.31	0.1728	0.1568	
Earth	1789-11-05 15:07 G	2374788.04	2374788.13	2374788.23	0.2692	0.1227	
Moon	1789-11-05 15:35 G	2374788.05	2374788.15	2374788.25	0.2686	0.1142	*
Venus	1790-07-23 10:04 G	2375047.84	2375047.92	2375048.00	0.3677	0.2406	

Neptune 1791-05-19 21:35 G 2375348.36 2375348.40 2375348.45 0.0088 0.0084

Neptune 1791-08-16 00:43 G 2375436.44 2375436.53 2375436.63 0.0088 0.0075

Neptune 1791-11-12 03:50 G 2375524.54 2375524.66 2375524.78 0.0088 0.0066

Saturn 1792-01-01 22:19 G 2375575.40 2375575.43 2375575.47 0.0285 0.0275

Venus 1792-02-07 08:09 G 2375611.71 2375611.84 2375611.98 0.3691 0.1353

Neptune 1792-02-08 06:43 G 2375612.65 2375612.78 2375612.93 0.0088 0.0057

Saturn 1792-03-30 11:16 G 2375663.85 2375663.97 2375664.09 0.0286 0.0148

Neptune 1792-05-06 09:50 G 2375700.77 2375700.91 2375701.08 0.0088 0.0048

Saturn 1792-06-26 23:45 G 2375752.36 2375752.49 2375752.63 0.0287 0.0021

Neptune 1792-08-02 12:57 G 2375788.89 2375789.04 2375789.22 0.0088 0.0039

Jupiter 1792-08-04 10:19 G 2375790.76 2375790.93 2375791.10 0.0491 0.0136

Saturn 1792-09-23 12:14 G 2375840.89 2375841.01 2375841.14 0.0288 0.0106

Neptune 1792-10-29 16:04 G 2375877.01 2375877.17 2375877.36 0.0088 0.0030

Saturn 1792-12-21 00:28 G 2375929.45 2375929.52 2375929.60 0.0288 0.0232

Neptune 1793-01-25 19:26 G 2375965.13 2375965.31 2375965.49 0.0088 0.0021

Neptune 1793-04-23 22:48 G 2376053.26 2376053.45 2376053.63 0.0088 0.0011

Neptune 1793-07-21 01:55 G 2376141.39 2376141.58 2376141.76 0.0088 0.0002

Neptune 1793-10-17 05:02 G 2376229.52 2376229.71 2376229.90 0.0088 0.0007

Neptune 1794-01-13 08:09 G 2376317.66 2376317.84 2376318.03 0.0088 0.0017

Neptune 1794-04-11 11:16 G 2376405.80 2376405.97 2376406.16 0.0088 0.0026

Neptune 1794-07-08 14:38 G 2376493.94 2376494.11 2376494.28 0.0088 0.0035

Neptune 1794-10-04 17:31 G 2376582.09 2376582.23 2376582.41 0.0088 0.0045

Neptune 1794-12-31 20:52 G 2376670.23 2376670.37 2376670.53 0.0088 0.0054

Neptune 1795-03-30 00:00 G 2376758.39 2376758.50 2376758.65 0.0088 0.0064

Neptune 1795-06-26 03:21 G 2376846.55 2376846.64 2376846.76 0.0088 0.0073

Neptune 1795-09-22 06:28 G 2376934.73 2376934.77 2376934.85 0.0088 0.0083

Venus 1796-02-06 02:52 G 2377071.51 2377071.62 2377071.72 0.3678 0.0980

Mars 1797-01-26 10:19 G 2377426.82 2377426.93 2377427.03 0.1822 0.0765

Mars 1798-02-21 16:19 G 2377818.03 2377818.18 2377818.34 0.1721 0.0627

Jupiter 1798-04-09 11:45 G 2377864.89 2377864.99 2377865.08 0.0537 0.0368

Jupiter	1798-07-07 19:55 G	2377954.21	2377954.33	2377954.44	0.0535	0.0243	
Mars	1799-01-01 20:24 G	2378132.32	2378132.35	2378132.39	0.1793	0.1701	
Moon	1799-05-07 11:45 G	2378257.85	2378257.99	2378258.14	0.2645	0.0896	
Earth	1799-05-07 12:43 G	2378257.88	2378258.03	2378258.18	0.2639	0.0939	*
Venus	1801-08-22 19:11 G	2379095.20	2379095.30	2379095.41	0.3679	0.0435	
Moon	1802-11-09 08:52 G	2379538.76	2379538.87	2379538.98	0.2687	0.0126	
Earth	1802-11-09 08:52 G	2379538.76	2379538.87	2379538.98	0.2693	0.0167	*
Jupiter	1804-05-24 09:07 G	2380100.74	2380100.88	2380101.02	0.0490	0.0296	
Jupiter	1804-08-22 13:55 G	2380190.96	2380191.08	2380191.20	0.0492	0.0372	
Saturn	1806-01-26 18:00 G	2380713.10	2380713.25	2380713.41	0.0274	0.0139	
Saturn	1806-04-25 14:09 G	2380801.91	2380802.09	2380802.26	0.0274	0.0010	
Mars	1806-06-19 19:11 G	2380857.23	2380857.30	2380857.37	0.1829	0.1418	
Saturn	1806-07-23 10:04 G	2380890.78	2380890.92	2380891.07	0.0273	0.0154	
Venus	1807-03-08 11:45 G	2381118.89	2381118.99	2381119.08	0.3680	0.1775	
Mars	1807-07-15 15:21 G	2381247.98	2381248.14	2381248.31	0.1714	0.0294	
Mars	1808-05-25 06:14 G	2381562.67	2381562.76	2381562.85	0.1800	0.1127	
Uranus	1809-06-16 06:43 G	2381949.70	2381949.78	2381949.88	0.0143	0.0126	
Uranus	1809-09-12 14:38 G	2382037.99	2382038.11	2382038.26	0.0143	0.0096	
Uranus	1809-12-09 22:48 G	2382126.29	2382126.45	2382126.62	0.0143	0.0066	
Jupiter	1810-01-27 14:24 G	2382175.10	2382175.10	2382175.11	0.0537	0.0536	
Uranus	1810-03-08 06:43 G	2382214.61	2382214.78	2382214.97	0.0143	0.0037	
Jupiter	1810-04-26 23:02 G	2382264.33	2382264.46	2382264.59	0.0536	0.0084	
Uranus	1810-06-04 14:52 G	2382302.93	2382303.12	2382303.31	0.0143	0.0007	
Uranus	1810-08-31 23:02 G	2382391.27	2382391.46	2382391.65	0.0143	0.0023	
Uranus	1810-11-28 06:57 G	2382479.62	2382479.79	2382479.97	0.0143	0.0053	
Uranus	1811-02-24 14:52 G	2382567.98	2382568.12	2382568.29	0.0143	0.0083	
Uranus	1811-05-23 23:02 G	2382656.36	2382656.46	2382656.59	0.0143	0.0113	
Uranus	1811-08-20 07:26 G	2382744.81	2382744.81	2382744.82	0.0142	0.0142	
Venus	1812-09-21 03:50 G	2383142.61	2383142.66	2383142.72	0.3681	0.3102	
Moon	1815-11-12 01:55 G	2384289.49	2384289.58	2384289.67	0.2691	0.1518	

Earth	1815-11-12 02:24	G	2384289.51	2384289.60	2384289.69	0.2695	0.1543 *
Jupiter	1816-03-12 07:40	G	2384410.77	2384410.82	2384410.89	0.0490	0.0456
Jupiter	1816-06-10 12:00	G	2384500.84	2384501.00	2384501.17	0.0491	0.0204
Mars	1816-12-04 14:52	G	2384678.00	2384678.12	2384678.23	0.1707	0.1178
Mars	1817-10-15 15:35	G	2384993.04	2384993.15	2384993.26	0.1808	0.0530
Saturn	1821-08-18 14:09	G	2386395.98	2386396.09	2386396.20	0.0285	0.0176
Saturn	1821-11-15 02:38	G	2386484.48	2386484.61	2386484.75	0.0286	0.0050
Saturn	1822-02-11 15:07	G	2386573.00	2386573.13	2386573.26	0.0287	0.0077
Jupiter	1822-02-13 02:52	G	2386574.49	2386574.62	2386574.75	0.0537	0.0064
Saturn	1822-05-11 03:21	G	2386661.55	2386661.64	2386661.74	0.0287	0.0202
Earth	1822-11-05 02:24	G	2386839.54	2386839.60	2386839.65	0.2690	0.2335
Moon	1822-11-05 02:52	G	2386839.57	2386839.62	2386839.68	0.2689	0.2247 *
Mars	1827-03-08 01:11	G	2388423.43	2388423.55	2388423.66	0.1815	0.0089
Jupiter	1828-03-29 09:50	G	2388810.73	2388810.91	2388811.09	0.0491	0.0031
Mars	1828-04-02 18:43	G	2388815.24	2388815.28	2388815.32	0.1728	0.1674
Moon	1832-05-05 10:48	G	2390308.82	2390308.95	2390309.08	0.2644	0.1566
Earth	1832-05-05 12:14	G	2390308.88	2390309.01	2390309.15	0.2641	0.1352 *
Jupiter	1833-12-02 06:57	G	2390884.67	2390884.79	2390884.91	0.0537	0.0210
Jupiter	1834-03-01 14:52	G	2390974.03	2390974.12	2390974.20	0.0535	0.0396
Saturn	1835-06-15 16:48	G	2391445.08	2391445.20	2391445.33	0.0275	0.0186
Saturn	1835-09-12 12:43	G	2391533.85	2391534.03	2391534.21	0.0274	0.0041
Earth	1835-11-07 19:55	G	2391590.23	2391590.33	2391590.44	0.2692	0.0942
Moon	1835-11-07 20:24	G	2391590.24	2391590.35	2391590.45	0.2685	0.0902 *
Saturn	1835-12-10 08:38	G	2391622.70	2391622.86	2391623.03	0.0273	0.0105
Saturn	1836-03-08 05:02	G	2391711.65	2391711.71	2391711.78	0.0273	0.0252
Mars	1836-07-28 10:19	G	2391853.82	2391853.93	2391854.04	0.1821	0.0702
Mars	1837-08-23 17:02	G	2392245.06	2392245.21	2392245.36	0.1721	0.0712
Mars	1838-07-03 20:38	G	2392559.34	2392559.36	2392559.37	0.1793	0.1764
Jupiter	1840-01-16 08:24	G	2393120.68	2393120.85	2393121.02	0.0491	0.0134
Venus	1841-08-14 15:07	G	2393697.09	2393697.13	2393697.17	0.3677	0.3370

Venus	1843-03-01 04:19 G	2394260.54	2394260.68	2394260.82	0.3692	0.0971
Moon	1845-05-08 18:43 G	2395060.15	2395060.28	2395060.41	0.2645	0.1384
Earth	1845-05-08 19:26 G	2395060.18	2395060.31	2395060.44	0.2639	0.1516 *
Jupiter	1845-09-20 10:19 G	2395194.83	2395194.93	2395195.02	0.0537	0.0366
Jupiter	1845-12-18 18:28 G	2395284.16	2395284.27	2395284.38	0.0535	0.0245
Mars	1845-12-18 19:11 G	2395284.22	2395284.30	2395284.38	0.1829	0.1353 *
Mars	1847-01-13 16:04 G	2395675.00	2395675.17	2395675.33	0.1714	0.0206
Venus	1847-02-28 07:55 G	2395720.74	2395720.83	2395720.92	0.3678	0.1927
Mars	1847-11-24 06:14 G	2395989.67	2395989.76	2395989.84	0.1800	0.1186
Venus	1848-09-14 09:21 G	2396284.78	2396284.89	2396285.00	0.3691	0.2429
Moon	1848-11-09 13:26 G	2396340.95	2396341.06	2396341.17	0.2687	0.0448
Earth	1848-11-09 13:40 G	2396340.96	2396341.07	2396341.18	0.2693	0.0450 *
Saturn	1851-01-05 15:35 G	2397128.07	2397128.15	2397128.24	0.0286	0.0216
Saturn	1851-04-04 04:19 G	2397216.55	2397216.68	2397216.81	0.0286	0.0089
Saturn	1851-07-01 16:48 G	2397305.07	2397305.20	2397305.34	0.0287	0.0038
Saturn	1851-09-28 05:16 G	2397393.61	2397393.72	2397393.83	0.0288	0.0164
Jupiter	1851-11-04 06:57 G	2397430.65	2397430.79	2397430.94	0.0491	0.0296
Jupiter	1852-02-02 11:45 G	2397520.88	2397520.99	2397521.11	0.0492	0.0374
Venus	1852-09-13 00:28 G	2397744.42	2397744.52	2397744.63	0.3679	0.0522
Uranus	1852-12-12 07:11 G	2397834.74	2397834.80	2397834.87	0.0135	0.0118
Uranus	1853-03-10 10:33 G	2397922.85	2397922.94	2397923.03	0.0135	0.0100
Uranus	1853-06-06 13:40 G	2398010.97	2398011.07	2398011.18	0.0135	0.0083
Uranus	1853-09-02 16:48 G	2398099.09	2398099.20	2398099.32	0.0135	0.0065
Uranus	1853-11-29 20:09 G	2398187.21	2398187.34	2398187.46	0.0135	0.0047
Uranus	1854-02-25 23:16 G	2398275.34	2398275.47	2398275.60	0.0135	0.0030
Uranus	1854-05-25 02:24 G	2398363.47	2398363.60	2398363.73	0.0135	0.0012
Uranus	1854-08-21 05:31 G	2398451.60	2398451.73	2398451.87	0.0135	0.0006
Uranus	1854-11-17 08:38 G	2398539.73	2398539.86	2398539.99	0.0136	0.0023
Uranus	1855-02-13 11:45 G	2398627.87	2398627.99	2398628.12	0.0136	0.0041
Uranus	1855-05-12 14:52 G	2398716.01	2398716.12	2398716.24	0.0136	0.0059

Uranus 1855-08-08 18:00 G 2398804.15 2398804.25 2398804.36 0.0136 0.0076

Uranus 1855-11-04 21:07 G 2398892.29 2398892.38 2398892.48 0.0136 0.0094

Uranus 1856-02-01 00:14 G 2398980.44 2398980.51 2398980.59 0.0136 0.0111

Uranus 1856-04-29 03:07 G 2399068.60 2399068.63 2399068.68 0.0136 0.0129

Mars 1856-06-04 15:35 G 2399105.02 2399105.15 2399105.28 0.1707 0.1081

Mars 1857-04-15 15:35 G 2399420.05 2399420.15 2399420.26 0.1807 0.0600

Jupiter 1857-07-09 13:26 G 2399505.04 2399505.06 2399505.09 0.0537 0.0526

Jupiter 1857-10-06 22:04 G 2399594.29 2399594.42 2399594.55 0.0536 0.0092

Venus 1858-03-29 17:02 G 2399768.10 2399768.21 2399768.31 0.3679 0.0867

Moon 1861-11-12 06:43 G 2401091.69 2401091.78 2401091.86 0.2691 0.1675

Earth 1861-11-12 07:11 G 2401091.72 2401091.80 2401091.88 0.2695 0.1825 *

Jupiter 1863-08-23 06:00 G 2401740.69 2401740.75 2401740.82 0.0490 0.0453

Venus 1863-10-13 09:21 G 2401791.80 2401791.89 2401791.97 0.3680 0.2212

Jupiter 1863-11-21 10:04 G 2401830.76 2401830.92 2401831.09 0.0491 0.0208

Saturn 1864-11-01 17:31 G 2402177.13 2402177.23 2402177.33 0.0275 0.0222

Saturn 1865-01-29 13:11 G 2402265.88 2402266.05 2402266.22 0.0274 0.0077

Saturn 1865-04-28 09:21 G 2402354.71 2402354.89 2402355.06 0.0273 0.0069

Saturn 1865-07-26 05:31 G 2402443.62 2402443.73 2402443.84 0.0273 0.0216

Mars 1866-09-06 01:11 G 2402850.43 2402850.55 2402850.66 0.1814 0.0060

Earth 1868-11-05 07:11 G 2403641.73 2403641.80 2403641.87 0.2690 0.2046

Moon 1868-11-05 07:40 G 2403641.75 2403641.82 2403641.90 0.2687 0.1919 *

Venus 1869-04-28 01:26 G 2403815.54 2403815.56 2403815.59 0.3681 0.3535

Jupiter 1869-07-26 00:57 G 2403904.41 2403904.54 2403904.67 0.0537 0.0072

Jupiter 1869-10-23 08:38 G 2403993.85 2403993.86 2403993.88 0.0535 0.0528

Neptune 1873-03-04 17:16 G 2405222.21 2405222.22 2405222.23 0.0089 0.0089

Neptune 1873-05-31 18:43 G 2405310.23 2405310.28 2405310.34 0.0089 0.0082

Neptune 1873-08-27 20:09 G 2405398.27 2405398.34 2405398.42 0.0089 0.0074

Neptune 1873-11-23 21:50 G 2405486.32 2405486.41 2405486.50 0.0089 0.0067

Neptune 1874-02-19 23:16 G 2405574.37 2405574.47 2405574.58 0.0089 0.0060

Neptune 1874-05-19 00:43 G 2405662.43 2405662.53 2405662.65 0.0089 0.0053

Neptune 1874-08-15 02:09 G 2405750.48 2405750.59 2405750.72 0.0089 0.0045

Neptune 1874-11-11 03:50 G 2405838.54 2405838.66 2405838.79 0.0089 0.0038

Neptune 1875-02-07 05:16 G 2405926.60 2405926.72 2405926.85 0.0089 0.0031

Neptune 1875-05-06 06:43 G 2406014.66 2406014.78 2406014.92 0.0089 0.0024

Neptune 1875-08-02 08:24 G 2406102.71 2406102.85 2406102.98 0.0089 0.0016

Jupiter 1875-09-09 08:24 G 2406140.68 2406140.85 2406141.03 0.0491 0.0041

Neptune 1875-10-29 09:50 G 2406190.77 2406190.91 2406191.05 0.0089 0.0009

Neptune 1876-01-25 11:16 G 2406278.84 2406278.97 2406279.11 0.0089 0.0002

Mars 1876-01-27 10:19 G 2406280.82 2406280.93 2406281.04 0.1822 0.0643

Neptune 1876-04-22 12:43 G 2406366.90 2406367.03 2406367.17 0.0089 0.0006

Neptune 1876-07-19 14:24 G 2406454.96 2406455.10 2406455.23 0.0089 0.0013

Neptune 1876-10-15 15:50 G 2406543.02 2406543.16 2406543.29 0.0089 0.0020

Neptune 1877-01-11 17:16 G 2406631.09 2406631.22 2406631.35 0.0089 0.0027

Mars 1877-02-21 17:45 G 2406672.10 2406672.24 2406672.39 0.1721 0.0814

Neptune 1877-04-09 18:43 G 2406719.15 2406719.28 2406719.40 0.0089 0.0034

Neptune 1877-07-06 19:55 G 2406807.22 2406807.33 2406807.46 0.0089 0.0041

Neptune 1877-10-02 21:21 G 2406895.28 2406895.39 2406895.51 0.0089 0.0048

Neptune 1877-12-29 22:48 G 2406983.35 2406983.45 2406983.56 0.0089 0.0055

Neptune 1878-03-28 00:14 G 2407071.42 2407071.51 2407071.61 0.0089 0.0062

Moon 1878-05-06 17:31 G 2407111.08 2407111.23 2407111.38 0.2645 0.0899

Earth 1878-05-06 18:57 G 2407111.14 2407111.29 2407111.44 0.2641 0.0804 *

Neptune 1878-06-24 01:26 G 2407159.49 2407159.56 2407159.66 0.0089 0.0070

Neptune 1878-09-20 02:52 G 2407247.57 2407247.62 2407247.70 0.0089 0.0077

Neptune 1878-12-17 04:19 G 2407335.65 2407335.68 2407335.74 0.0089 0.0084

Saturn 1880-05-24 18:57 G 2407860.22 2407860.29 2407860.37 0.0285 0.0240

Saturn 1880-08-21 07:40 G 2407948.70 2407948.82 2407948.95 0.0286 0.0113

Saturn 1880-11-17 20:24 G 2408037.21 2408037.35 2408037.48 0.0286 0.0015

Saturn 1881-02-14 08:38 G 2408125.75 2408125.86 2408125.98 0.0287 0.0139

Saturn 1881-05-13 20:52 G 2408214.33 2408214.37 2408214.43 0.0288 0.0264

Jupiter 1881-05-14 04:33 G 2408214.58 2408214.69 2408214.81 0.0537 0.0223

Jupiter 1881-08-11 12:43 G 2408303.94 2408304.03 2408304.12 0.0535 0.0385

Earth 1881-11-08 00:43 G 2408392.43 2408392.53 2408392.64 0.2692 0.0658

Moon 1881-11-08 01:11 G 2408392.44 2408392.55 2408392.65 0.2686 0.0607 *

Mars 1885-06-18 19:26 G 2409711.23 2409711.31 2409711.39 0.1829 0.1285

Mars 1886-07-14 16:48 G 2410102.03 2410102.20 2410102.37 0.1714 0.0108

Mars 1887-05-25 06:14 G 2410416.68 2410416.76 2410416.84 0.1800 0.1247

Jupiter 1887-06-28 06:14 G 2410450.59 2410450.76 2410450.93 0.0491 0.0135

Moon 1891-05-10 01:26 G 2411862.47 2411862.56 2411862.66 0.2645 0.2027

Earth 1891-05-10 02:09 G 2411862.50 2411862.59 2411862.69 0.2639 0.2089 *

Jupiter 1893-03-02 08:38 G 2412524.76 2412524.86 2412524.95 0.0537 0.0370

Jupiter 1893-05-30 16:48 G 2412614.09 2412614.20 2412614.32 0.0536 0.0244

Uranus 1893-07-06 14:09 G 2412650.99 2412651.09 2412651.20 0.0143 0.0119

Uranus 1893-10-02 22:04 G 2412739.28 2412739.42 2412739.57 0.0143 0.0089

Uranus 1893-12-30 06:14 G 2412827.59 2412827.76 2412827.93 0.0143 0.0059

Saturn 1894-03-21 17:02 G 2412909.17 2412909.21 2412909.26 0.0275 0.0264

Venus 1894-03-22 00:28 G 2412909.45 2412909.52 2412909.59 0.3693 0.3183

Uranus 1894-03-28 14:09 G 2412915.91 2412916.09 2412916.28 0.0143 0.0030

Saturn 1894-06-18 12:43 G 2412997.87 2412998.03 2412998.19 0.0274 0.0120

Uranus 1894-06-24 22:19 G 2413004.24 2413004.43 2413004.62 0.0143 0.0002

Saturn 1894-09-15 08:38 G 2413086.68 2413086.86 2413087.04 0.0274 0.0026

Uranus 1894-09-21 06:14 G 2413092.58 2413092.76 2413092.95 0.0143 0.0030

Moon 1894-11-10 18:00 G 2413143.15 2413143.25 2413143.36 0.2687 0.0671

Earth 1894-11-10 18:28 G 2413143.17 2413143.27 2413143.37 0.2693 0.0737 *

Saturn 1894-12-13 04:33 G 2413175.56 2413175.69 2413175.84 0.0273 0.0172

Uranus 1894-12-18 14:09 G 2413180.93 2413181.09 2413181.27 0.0143 0.0060

Uranus 1895-03-16 22:19 G 2413269.29 2413269.43 2413269.59 0.0143 0.0090

Uranus 1895-06-13 06:28 G 2413357.68 2413357.77 2413357.88 0.0143 0.0120

Mars 1895-12-04 16:04 G 2413532.04 2413532.17 2413532.30 0.1707 0.1000

Mars 1896-10-14 15:50 G 2413847.05 2413847.16 2413847.27 0.1807 0.0660

Venus 1898-03-21 12:57 G 2414369.98 2414370.04 2414370.11 0.3677 0.2885

Jupiter	1899-04-16 04:48	G	2414760.56	2414760.70	2414760.84	0.0490	0.0298
Jupiter	1899-07-15 09:35	G	2414850.78	2414850.90	2414851.02	0.0492	0.0371
Venus	1899-10-06 05:16	G	2414933.57	2414933.72	2414933.86	0.3692	0.0077
Venus	1903-10-06 05:45	G	2416393.64	2416393.74	2416393.84	0.3678	0.1456
Jupiter	1904-12-20 11:45	G	2416834.98	2416834.99	2416835.02	0.0537	0.0527
Jupiter	1905-03-19 20:24	G	2416924.23	2416924.35	2416924.48	0.0536	0.0092
Venus	1905-04-22 10:48	G	2416957.91	2416957.95	2416957.99	0.3691	0.3526
Mars	1906-03-08 01:11	G	2417277.43	2417277.55	2417277.66	0.1814	0.0067
Moon	1907-11-14 11:16	G	2417893.91	2417893.97	2417894.04	0.2692	0.2065
Earth	1907-11-14 12:00	G	2417893.93	2417894.00	2417894.07	0.2695	0.2105 *
Venus	1909-04-20 22:19	G	2418417.32	2418417.43	2418417.53	0.3679	0.0087
Saturn	1909-10-12 20:24	G	2418592.34	2418592.35	2418592.38	0.0285	0.0280
Saturn	1910-01-09 09:21	G	2418680.78	2418680.89	2418681.01	0.0286	0.0153
Saturn	1910-04-07 21:50	G	2418769.28	2418769.41	2418769.55	0.0287	0.0028
Saturn	1910-07-05 10:19	G	2418857.81	2418857.93	2418858.06	0.0287	0.0101
Saturn	1910-10-01 22:48	G	2418946.37	2418946.45	2418946.53	0.0288	0.0226
Jupiter	1911-02-03 03:35	G	2419070.59	2419070.65	2419070.71	0.0490	0.0458
Jupiter	1911-05-04 07:55	G	2419160.66	2419160.83	2419160.99	0.0492	0.0203
Venus	1914-11-04 14:38	G	2420441.01	2420441.11	2420441.21	0.3680	0.1316
Earth	1914-11-07 12:00	G	2420443.92	2420444.00	2420444.08	0.2691	0.1756
Moon	1914-11-07 12:28	G	2420443.94	2420444.02	2420444.10	0.2686	0.1723 *
Mars	1915-07-29 10:19	G	2420707.82	2420707.93	2420708.04	0.1821	0.0578
Mars	1916-08-23 18:43	G	2421099.14	2421099.28	2421099.42	0.1721	0.0916
Jupiter	1917-01-06 00:00	G	2421234.37	2421234.50	2421234.62	0.0536	0.0067
Jupiter	1917-04-05 07:26	G	2421323.81	2421323.81	2421323.82	0.0534	0.0534
Venus	1920-05-20 06:57	G	2422464.72	2422464.79	2422464.86	0.3681	0.2654
Jupiter	1923-02-20 06:28	G	2423470.59	2423470.77	2423470.95	0.0491	0.0040
Saturn	1923-11-06 13:26	G	2423729.92	2423730.06	2423730.21	0.0274	0.0154
Saturn	1924-02-03 09:21	G	2423818.71	2423818.89	2423819.07	0.0274	0.0010
Saturn	1924-05-02 05:16	G	2423907.57	2423907.72	2423907.88	0.0273	0.0137

Moon	1924-05-08 00:14	G	2423913.36	2423913.51	2423913.67	0.2645	0.0491
Earth	1924-05-08 01:40	G	2423913.41	2423913.57	2423913.72	0.2640	0.0250 *
Mars	1924-12-18 19:11	G	2424138.22	2424138.30	2424138.39	0.1828	0.1227
Mars	1926-01-13 17:31	G	2424529.06	2424529.23	2424529.40	0.1714	0.0015
Mars	1926-11-24 06:14	G	2424843.68	2424843.76	2424843.84	0.1800	0.1307
Moon	1927-11-10 05:45	G	2425194.63	2425194.74	2425194.85	0.2686	0.0321
Earth	1927-11-10 05:45	G	2425194.63	2425194.74	2425194.84	0.2692	0.0375 *
Jupiter	1928-10-25 02:38	G	2425544.49	2425544.61	2425544.73	0.0537	0.0232
Jupiter	1929-01-22 10:33	G	2425633.85	2425633.94	2425634.04	0.0535	0.0375
Jupiter	1934-12-09 04:48	G	2427780.52	2427780.70	2427780.87	0.0490	0.0128
Mars	1935-06-05 17:02	G	2427959.07	2427959.21	2427959.35	0.1708	0.0898
Mars	1936-04-15 15:50	G	2428274.05	2428274.16	2428274.26	0.1807	0.0720
Uranus	1936-10-06 11:31	G	2428447.95	2428447.98	2428448.01	0.0135	0.0130
Uranus	1937-01-02 14:38	G	2428536.04	2428536.11	2428536.19	0.0135	0.0113
Uranus	1937-03-31 17:45	G	2428624.16	2428624.24	2428624.34	0.0135	0.0095
Moon	1937-05-11 08:38	G	2428664.86	2428664.86	2428664.86	0.2645	0.2644
Uranus	1937-06-27 21:07	G	2428712.27	2428712.38	2428712.49	0.0135	0.0077
Uranus	1937-09-24 00:14	G	2428800.40	2428800.51	2428800.64	0.0135	0.0060
Uranus	1937-12-21 03:21	G	2428888.52	2428888.64	2428888.77	0.0135	0.0043
Uranus	1938-03-19 06:43	G	2428976.65	2428976.78	2428976.91	0.0135	0.0024
Uranus	1938-06-15 09:50	G	2429064.78	2429064.91	2429065.04	0.0135	0.0007
Uranus	1938-09-11 12:57	G	2429152.91	2429153.04	2429153.18	0.0135	0.0011
Uranus	1938-12-08 16:04	G	2429241.04	2429241.17	2429241.30	0.0136	0.0029
Uranus	1939-03-06 19:11	G	2429329.18	2429329.30	2429329.43	0.0136	0.0046
Saturn	1939-05-29 12:57	G	2429412.94	2429413.04	2429413.15	0.0285	0.0174
Uranus	1939-06-02 22:19	G	2429417.32	2429417.43	2429417.55	0.0136	0.0064
Saturn	1939-08-26 01:40	G	2429501.44	2429501.57	2429501.70	0.0286	0.0047
Uranus	1939-08-30 01:26	G	2429505.46	2429505.56	2429505.67	0.0136	0.0082
Saturn	1939-11-22 14:09	G	2429589.96	2429590.09	2429590.22	0.0287	0.0079
Uranus	1939-11-26 04:33	G	2429593.61	2429593.69	2429593.79	0.0136	0.0099

Saturn 1940-02-19 02:24 G 2429678.51 2429678.60 2429678.70 0.0288 0.0204

Uranus 1940-02-22 07:40 G 2429681.76 2429681.82 2429681.89 0.0136 0.0117

Uranus 1940-05-20 10:48 G 2429769.94 2429769.95 2429769.97 0.0136 0.0134

Jupiter 1940-08-13 06:14 G 2429854.67 2429854.76 2429854.85 0.0537 0.0386

Jupiter 1940-11-10 14:38 G 2429943.99 2429944.11 2429944.22 0.0536 0.0229

Moon 1940-11-11 22:48 G 2429945.35 2429945.45 2429945.55 0.2688 0.0964

Earth 1940-11-11 23:16 G 2429945.37 2429945.47 2429945.57 0.2694 0.1021 *

Mars 1945-09-06 01:11 G 2431704.43 2431704.55 2431704.66 0.1814 0.0113

Pluto 1945-09-19 12:43 G 2431718.01 2431718.03 2431718.07 0.0071 0.0070

Pluto 1945-12-16 13:55 G 2431806.01 2431806.08 2431806.15 0.0071 0.0061

Pluto 1946-03-14 14:24 G 2431894.02 2431894.10 2431894.21 0.0071 0.0052

Pluto 1946-06-10 15:21 G 2431982.04 2431982.14 2431982.26 0.0072 0.0044

Pluto 1946-09-06 16:19 G 2432070.06 2432070.18 2432070.31 0.0072 0.0035

Jupiter 1946-09-27 02:24 G 2432090.46 2432090.60 2432090.74 0.0490 0.0302

Pluto 1946-12-03 17:16 G 2432158.09 2432158.22 2432158.35 0.0072 0.0026

Jupiter 1946-12-26 06:57 G 2432180.68 2432180.79 2432180.92 0.0492 0.0366

Pluto 1947-03-01 18:00 G 2432246.12 2432246.25 2432246.40 0.0072 0.0017

Pluto 1947-05-28 19:11 G 2432334.16 2432334.30 2432334.44 0.0072 0.0007

Pluto 1947-08-24 20:09 G 2432422.20 2432422.34 2432422.48 0.0072 0.0002

Pluto 1947-11-20 20:52 G 2432510.24 2432510.37 2432510.52 0.0072 0.0011

Pluto 1948-02-16 21:50 G 2432598.28 2432598.41 2432598.55 0.0072 0.0020

Pluto 1948-05-14 22:48 G 2432686.32 2432686.45 2432686.58 0.0073 0.0030

Pluto 1948-08-10 23:31 G 2432774.37 2432774.48 2432774.61 0.0073 0.0040

Pluto 1948-11-07 00:28 G 2432862.43 2432862.52 2432862.64 0.0073 0.0049

Pluto 1949-02-03 01:26 G 2432950.49 2432950.56 2432950.66 0.0073 0.0059

Pluto 1949-05-02 02:38 G 2433038.57 2433038.61 2433038.66 0.0073 0.0068

Venus 1950-10-28 01:26 G 2433582.45 2433582.56 2433582.68 0.3693 0.2175

Jupiter 1952-06-01 09:50 G 2434164.91 2434164.91 2434164.92 0.0538 0.0535

Jupiter 1952-08-29 18:28 G 2434254.15 2434254.27 2434254.40 0.0536 0.0087

Saturn 1953-03-25 13:40 G 2434461.95 2434462.07 2434462.20 0.0275 0.0191

Saturn 1953-06-22 09:21 G 2434550.72 2434550.89 2434551.07 0.0274 0.0047

Saturn 1953-09-19 05:16 G 2434639.56 2434639.72 2434639.89 0.0273 0.0099

Moon 1953-11-14 16:04 G 2434696.12 2434696.17 2434696.23 0.2694 0.2266

Earth 1953-11-14 16:48 G 2434696.15 2434696.20 2434696.25 0.2695 0.2391 *

Saturn 1953-12-17 01:26 G 2434728.49 2434728.56 2434728.65 0.0273 0.0246

Venus 1954-10-27 10:48 G 2435042.87 2435042.95 2435043.03 0.3677 0.2402

Mars 1955-01-27 10:19 G 2435134.82 2435134.93 2435135.05 0.1821 0.0515

Neptune 1956-02-15 19:26 G 2435519.26 2435519.31 2435519.39 0.0088 0.0082

Mars 1956-02-22 19:11 G 2435526.16 2435526.30 2435526.44 0.1721 0.0999

Venus 1956-05-13 06:28 G 2435606.63 2435606.77 2435606.90 0.3691 0.1127

Neptune 1956-05-13 22:33 G 2435607.35 2435607.44 2435607.55 0.0088 0.0073

Neptune 1956-08-10 01:40 G 2435695.46 2435695.57 2435695.70 0.0088 0.0064

Neptune 1956-11-06 04:48 G 2435783.57 2435783.70 2435783.85 0.0088 0.0055

Neptune 1957-02-02 07:55 G 2435871.68 2435871.83 2435871.99 0.0088 0.0046

Neptune 1957-05-01 11:02 G 2435959.80 2435959.96 2435960.14 0.0088 0.0037

Earth 1957-05-06 01:11 G 2435964.50 2435964.55 2435964.59 0.2642 0.2525

Neptune 1957-07-28 14:09 G 2436047.92 2436048.09 2436048.27 0.0088 0.0028

Neptune 1957-10-24 17:16 G 2436136.05 2436136.22 2436136.41 0.0088 0.0019

Neptune 1958-01-20 20:38 G 2436224.18 2436224.36 2436224.55 0.0088 0.0009

Neptune 1958-04-18 23:45 G 2436312.31 2436312.49 2436312.68 0.0088 0.0001

Neptune 1958-07-16 02:52 G 2436400.44 2436400.62 2436400.81 0.0088 0.0010

Jupiter 1958-07-16 00:57 G 2436400.49 2436400.54 2436400.60 0.0490 0.0463 *

Neptune 1958-10-12 06:00 G 2436488.58 2436488.75 2436488.94 0.0088 0.0019

Jupiter 1958-10-14 05:16 G 2436490.55 2436490.72 2436490.88 0.0491 0.0196

Neptune 1959-01-08 09:21 G 2436576.72 2436576.89 2436577.07 0.0088 0.0028

Neptune 1959-04-06 12:28 G 2436664.86 2436665.02 2436665.20 0.0088 0.0037

Neptune 1959-07-03 15:35 G 2436753.00 2436753.15 2436753.32 0.0088 0.0047

Neptune 1959-09-29 18:57 G 2436841.15 2436841.29 2436841.44 0.0088 0.0056

Neptune 1959-12-26 21:50 G 2436929.31 2436929.41 2436929.55 0.0088 0.0066

Neptune 1960-03-24 01:11 G 2437017.47 2437017.55 2437017.66 0.0088 0.0075

Venus 1960-05-12 03:35 G 2437066.54 2437066.65 2437066.75 0.3678 0.0996

Neptune 1960-06-20 04:48 G 2437105.65 2437105.70 2437105.75 0.0088 0.0084

Earth 1960-11-07 16:48 G 2437246.11 2437246.20 2437246.29 0.2691 0.1469

Moon 1960-11-07 17:16 G 2437246.13 2437246.22 2437246.32 0.2686 0.1327 *

Jupiter 1964-06-17 22:04 G 2438564.30 2438564.42 2438564.55 0.0536 0.0070

Mars 1964-06-18 19:26 G 2438565.22 2438565.31 2438565.40 0.1828 0.1160

Jupiter 1964-09-15 05:45 G 2438653.73 2438653.74 2438653.76 0.0535 0.0531

Mars 1965-07-14 18:14 G 2438956.10 2438956.26 2438956.43 0.1715 0.0092

Venus 1965-11-25 19:55 G 2439090.23 2439090.33 2439090.44 0.3679 0.0423

Mars 1966-05-25 06:14 G 2439270.69 2439270.76 2439270.83 0.1800 0.1370

Saturn 1968-10-15 14:38 G 2440145.02 2440145.11 2440145.20 0.0286 0.0213

Saturn 1969-01-12 03:21 G 2440233.51 2440233.64 2440233.77 0.0286 0.0086

Saturn 1969-04-10 15:50 G 2440322.03 2440322.16 2440322.30 0.0287 0.0042

Saturn 1969-07-08 04:19 G 2440410.57 2440410.68 2440410.79 0.0288 0.0167

Moon 1970-05-09 06:57 G 2440715.63 2440715.79 2440715.94 0.2645 0.0261

Earth 1970-05-09 08:09 G 2440715.68 2440715.84 2440716.00 0.2640 0.0312 *

Jupiter 1970-08-02 03:35 G 2440800.47 2440800.65 2440800.83 0.0491 0.0030

Venus 1971-06-11 12:28 G 2441113.92 2441114.02 2441114.11 0.3680 0.1768

Mars 1973-11-09 04:19 G 2441995.67 2441995.68 2441995.69 0.1835 0.1822

Moon 1973-11-10 10:19 G 2441996.82 2441996.93 2441997.04 0.2686 0.0153

Earth 1973-11-10 10:19 G 2441996.83 2441996.93 2441997.04 0.2692 0.0138 *

Mars 1974-12-04 17:31 G 2442386.09 2442386.23 2442386.38 0.1708 0.0811

Mars 1975-10-15 15:50 G 2442701.05 2442701.16 2442701.26 0.1807 0.0781

Jupiter 1976-04-06 01:26 G 2442874.44 2442874.56 2442874.68 0.0536 0.0226

Jupiter 1976-07-04 09:21 G 2442963.81 2442963.89 2442963.98 0.0535 0.0381

Venus 1976-12-25 04:33 G 2443137.64 2443137.69 2443137.75 0.3681 0.3091

Uranus 1977-04-30 13:11 G 2443264.04 2443264.05 2443264.10 0.0144 0.0142

Uranus 1977-07-27 21:35 G 2443352.28 2443352.40 2443352.51 0.0143 0.0112

Uranus 1977-10-24 05:16 G 2443440.57 2443440.72 2443440.88 0.0143 0.0083

Uranus 1978-01-20 13:11 G 2443528.88 2443529.05 2443529.24 0.0143 0.0053

Uranus 1978-04-18 21:21 G 2443617.21 2443617.39 2443617.58 0.0143 0.0023

Uranus 1978-07-16 05:31 G 2443705.54 2443705.73 2443705.92 0.0143 0.0007

Uranus 1978-10-12 13:26 G 2443793.88 2443794.06 2443794.25 0.0143 0.0037

Uranus 1979-01-08 21:21 G 2443882.23 2443882.39 2443882.57 0.0143 0.0067

Uranus 1979-04-07 05:31 G 2443970.60 2443970.73 2443970.88 0.0143 0.0097

Uranus 1979-07-04 13:40 G 2444059.00 2444059.07 2444059.17 0.0143 0.0127

Jupiter 1982-05-21 02:24 G 2445110.43 2445110.60 2445110.77 0.0491 0.0132

Saturn 1982-08-12 14:24 G 2445194.00 2445194.10 2445194.20 0.0275 0.0226

Saturn 1982-11-09 10:04 G 2445282.75 2445282.92 2445283.09 0.0274 0.0082

Saturn 1983-02-06 06:00 G 2445371.58 2445371.75 2445371.93 0.0273 0.0064

Saturn 1983-05-06 02:24 G 2445460.48 2445460.60 2445460.71 0.0273 0.0210

Mars 1984-04-25 17:31 G 2445816.20 2445816.23 2445816.26 0.1701 0.1662

Mars 1985-03-07 01:11 G 2446131.43 2446131.55 2446131.66 0.1814 0.0173

Moon 1986-11-13 03:35 G 2446747.55 2446747.65 2446747.75 0.2688 0.1247

Earth 1986-11-13 04:04 G 2446747.57 2446747.67 2446747.76 0.2694 0.1306 *

Jupiter 1988-01-24 04:04 G 2447184.58 2447184.67 2447184.76 0.0537 0.0397

Jupiter 1988-04-22 12:28 G 2447273.90 2447274.02 2447274.14 0.0536 0.0218

Earth 1993-11-06 03:50 G 2449297.63 2449297.66 2449297.69 0.2689 0.2577

Moon 1993-11-06 04:33 G 2449297.64 2449297.69 2449297.73 0.2688 0.2424 *

Jupiter 1994-03-09 00:43 G 2449420.39 2449420.53 2449420.68 0.0490 0.0296

Jupiter 1994-06-07 05:16 G 2449510.61 2449510.72 2449510.85 0.0491 0.0372

Mars 1994-07-28 10:19 G 2449561.82 2449561.93 2449562.04 0.1821 0.0454

Mars 1995-08-23 20:09 G 2449953.21 2449953.34 2449953.47 0.1722 0.1108

Saturn 1998-03-04 18:14 G 2450877.19 2450877.26 2450877.35 0.0285 0.0234

Saturn 1998-06-01 07:11 G 2450965.67 2450965.80 2450965.92 0.0286 0.0106

Saturn 1998-08-28 19:40 G 2451054.19 2451054.32 2451054.46 0.0287 0.0020

Saturn 1998-11-25 08:09 G 2451142.72 2451142.84 2451142.96 0.0287 0.0146

Saturn 1999-02-21 20:24 G 2451231.31 2451231.35 2451231.40 0.0288 0.0271

Moon 1999-11-15 20:52 G 2451498.34 2451498.37 2451498.40 0.2696 0.2584

Earth 1999-11-15 21:35 G 2451498.39 2451498.40 2451498.41 0.2695 0.2672 *

Jupiter 2000-02-09 16:04 G 2451584.05 2451584.17 2451584.30 0.0536 0.0070

3RD MILLENNIUM CE

This is a list of transits of Mercury in the 3rd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	**2003-05-07 06:14**	**G**	**2452766.66**	**2452766.76**	**2452766.85**	**0.2645**	**0.2085**	
Earth	**2003-05-07 07:40**	**G**	**2452766.72**	**2452766.82**	**2452766.93**	**0.2642**	**0.1973**	*
Mars	**2003-12-18 19:26**	**G**	**2452992.22**	**2452992.31**	**2452992.40**	**0.1828**	**0.1091**	
Mars	**2005-01-12 18:57**	**G**	**2453383.12**	**2453383.29**	**2453383.45**	**0.1715**	**0.0173**	
Venus	**2005-11-17 15:50**	**G**	**2453692.12**	**2453692.16**	**2453692.20**	**0.3677**	**0.3363**	
Mars	**2005-11-23 06:14**	**G**	**2453697.69**	**2453697.76**	**2453697.83**	**0.1800**	**0.1427**	
Jupiter	**2005-12-25 22:33**	**G**	**2453730.39**	**2453730.44**	**2453730.49**	**0.0490**	**0.0469**	
Jupiter	**2006-03-26 02:38**	**G**	**2453820.44**	**2453820.61**	**2453820.78**	**0.0491**	**0.0189**	
Earth	**2006-11-08 21:35**	**G**	**2454048.30**	**2454048.40**	**2454048.50**	**0.2691**	**0.1177**	
Moon	**2006-11-08 22:04**	**G**	**2454048.32**	**2454048.42**	**2454048.52**	**0.2686**	**0.1164**	*
Venus	**2007-06-04 02:24**	**G**	**2454255.47**	**2454255.60**	**2454255.74**	**0.3692**	**0.1165**	
Venus	**2011-06-03 08:38**	**G**	**2455715.77**	**2455715.86**	**2455715.95**	**0.3678**	**0.1926**	
Jupiter	**2011-11-28 20:09**	**G**	**2455894.21**	**2455894.34**	**2455894.47**	**0.0537**	**0.0077**	
Saturn	**2011-12-30 15:21**	**G**	**2455926.09**	**2455926.14**	**2455926.20**	**0.0275**	**0.0257**	
Jupiter	**2012-02-26 03:50**	**G**	**2455983.64**	**2455983.66**	**2455983.69**	**0.0535**	**0.0524**	
Saturn	**2012-03-28 11:02**	**G**	**2456014.80**	**2456014.96**	**2456015.12**	**0.0274**	**0.0114**	
Saturn	**2012-06-25 06:43**	**G**	**2456103.61**	**2456103.78**	**2456103.96**	**0.0274**	**0.0032**	
Saturn	**2012-09-22 02:52**	**G**	**2456192.49**	**2456192.62**	**2456192.76**	**0.0273**	**0.0177**	

Venus 2012-12-18 07:26 G 2456279.70 2456279.81 2456279.93 0.3691 0.2193

Mars 2013-05-10 04:19 G 2456422.65 2456422.68 2456422.71 0.1835 0.1756

Mars 2014-06-04 18:14 G 2456813.11 2456813.26 2456813.41 0.1708 0.0722

Mars 2015-04-15 15:50 G 2457128.06 2457128.16 2457128.26 0.1807 0.0845

Moon 2016-05-09 13:55 G 2457517.93 2457518.08 2457518.23 0.2645 0.0658

Earth 2016-05-09 14:52 G 2457517.97 2457518.12 2457518.27 0.2640 0.0880 *

Venus 2016-12-17 01:11 G 2457739.45 2457739.55 2457739.66 0.3679 0.0516

Jupiter 2018-01-12 00:57 G 2458130.36 2458130.54 2458130.72 0.0491 0.0022

Moon 2019-11-11 15:07 G 2458799.02 2458799.13 2458799.24 0.2685 0.0244

Earth 2019-11-11 15:07 G 2458799.03 2458799.13 2458799.24 0.2692 0.0238 *

Uranus 2020-10-26 18:57 G 2459149.24 2459149.29 2459149.34 0.0135 0.0125

Uranus 2021-01-22 22:04 G 2459237.34 2459237.42 2459237.50 0.0135 0.0108

Uranus 2021-04-21 01:11 G 2459325.46 2459325.55 2459325.66 0.0135 0.0090

Uranus 2021-07-18 04:33 G 2459413.58 2459413.69 2459413.80 0.0135 0.0072

Uranus 2021-10-14 07:40 G 2459501.70 2459501.82 2459501.94 0.0135 0.0055

Uranus 2022-01-10 10:48 G 2459589.83 2459589.95 2459590.08 0.0135 0.0037

Uranus 2022-04-08 13:55 G 2459677.95 2459678.08 2459678.22 0.0135 0.0020

Venus 2022-07-02 17:45 G 2459763.13 2459763.24 2459763.34 0.3680 0.0865

Uranus 2022-07-05 17:16 G 2459766.08 2459766.22 2459766.35 0.0135 0.0003

Uranus 2022-10-01 20:24 G 2459854.22 2459854.35 2459854.48 0.0135 0.0016

Uranus 2022-12-28 23:31 G 2459942.35 2459942.48 2459942.61 0.0136 0.0033

Uranus 2023-03-27 02:38 G 2460030.49 2460030.61 2460030.73 0.0136 0.0051

Uranus 2023-06-23 05:45 G 2460118.63 2460118.74 2460118.86 0.0136 0.0069

Jupiter 2023-09-16 23:45 G 2460204.37 2460204.49 2460204.61 0.0537 0.0230

Uranus 2023-09-19 08:52 G 2460206.77 2460206.87 2460206.97 0.0136 0.0086

Mars 2023-10-25 18:14 G 2460243.20 2460243.26 2460243.32 0.1701 0.1572

Jupiter 2023-12-15 07:40 G 2460293.73 2460293.82 2460293.91 0.0535 0.0377

Uranus 2023-12-16 12:00 G 2460294.92 2460295.00 2460295.09 0.0136 0.0104

Uranus 2024-03-13 15:07 G 2460383.08 2460383.13 2460383.19 0.0136 0.0121

Mars 2024-09-05 01:11 G 2460558.43 2460558.55 2460558.66 0.1814 0.0235

Saturn	2027-07-22 19:55	G	2461609.30	2461609.33	2461609.37	0.0285	0.0273
Saturn	2027-10-19 08:38	G	2461697.75	2461697.86	2461697.98	0.0286	0.0146
Saturn	2028-01-15 21:21	G	2461786.25	2461786.39	2461786.53	0.0287	0.0019
Venus	2028-01-16 10:04	G	2461786.83	2461786.92	2461787.00	0.3681	0.2205
Saturn	2028-04-13 09:50	G	2461874.79	2461874.91	2461875.04	0.0288	0.0107
Saturn	2028-07-10 22:19	G	2461963.35	2461963.43	2461963.51	0.0288	0.0233
Jupiter	2029-10-30 23:31	G	2462440.31	2462440.48	2462440.65	0.0491	0.0143
Pluto	2031-05-14 02:38	G	2463000.55	2463000.61	2463000.71	0.0072	0.0064
Pluto	2031-08-10 04:33	G	2463088.59	2463088.69	2463088.83	0.0072	0.0053
Pluto	2031-11-06 06:43	G	2463176.64	2463176.78	2463176.94	0.0072	0.0040
Pluto	2032-02-02 08:52	G	2463264.71	2463264.87	2463265.03	0.0072	0.0029
Pluto	2032-04-30 10:33	G	2463352.77	2463352.94	2463353.12	0.0072	0.0017
Pluto	2032-07-27 12:28	G	2463440.85	2463441.02	2463441.20	0.0072	0.0006
Pluto	2032-10-23 14:24	G	2463528.92	2463529.10	2463529.28	0.0072	0.0006
Moon	2032-11-13 08:24	G	2463549.76	2463549.85	2463549.94	0.2690	0.1481
Earth	2032-11-13 08:52	G	2463549.78	2463549.87	2463549.95	0.2694	0.1588 *
Pluto	2033-01-19 16:04	G	2463617.01	2463617.17	2463617.35	0.0072	0.0018
Pluto	2033-04-17 18:00	G	2463705.09	2463705.25	2463705.42	0.0071	0.0029
Pluto	2033-07-14 19:55	G	2463793.18	2463793.33	2463793.48	0.0071	0.0040
Venus	2033-08-01 02:09	G	2463810.56	2463810.59	2463810.62	0.3681	0.3513
Pluto	2033-10-10 21:35	G	2463881.28	2463881.40	2463881.53	0.0071	0.0051
Pluto	2034-01-06 23:31	G	2463969.40	2463969.48	2463969.57	0.0071	0.0062
Mars	2034-01-26 10:33	G	2463988.82	2463988.94	2463989.05	0.1821	0.0389
Mars	2035-02-21 20:52	G	2464380.25	2464380.37	2464380.49	0.1722	0.1203
Jupiter	2035-07-06 02:52	G	2464514.53	2464514.62	2464514.71	0.0537	0.0390
Jupiter	2035-10-03 11:16	G	2464603.85	2464603.97	2464604.09	0.0535	0.0224
Neptune	2037-11-30 16:19	G	2465393.17	2465393.18	2465393.22	0.0089	0.0087
Neptune	2038-02-26 18:14	G	2465481.20	2465481.26	2465481.32	0.0089	0.0080
Neptune	2038-05-25 19:26	G	2465569.24	2465569.31	2465569.40	0.0089	0.0073
Neptune	2038-08-21 20:52	G	2465657.29	2465657.37	2465657.48	0.0089	0.0066

Neptune 2038-11-17 22:48 G 2465745.34 2465745.45 2465745.55 0.0089 0.0058

Neptune 2039-02-14 00:14 G 2465833.40 2465833.51 2465833.62 0.0089 0.0051

Neptune 2039-05-13 01:40 G 2465921.45 2465921.57 2465921.69 0.0089 0.0043

Neptune 2039-08-09 03:07 G 2466009.51 2466009.63 2466009.76 0.0089 0.0036

Neptune 2039-11-05 04:48 G 2466097.57 2466097.70 2466097.83 0.0089 0.0029

Earth 2039-11-07 08:38 G 2466099.81 2466099.86 2466099.92 0.2689 0.2287

Moon 2039-11-07 09:21 G 2466099.83 2466099.89 2466099.95 0.2687 0.2227 *

Neptune 2040-02-01 06:14 G 2466185.63 2466185.76 2466185.89 0.0089 0.0022

Neptune 2040-04-29 07:40 G 2466273.69 2466273.82 2466273.96 0.0089 0.0015

Neptune 2040-07-26 09:07 G 2466361.75 2466361.88 2466362.02 0.0089 0.0008

Neptune 2040-10-22 10:48 G 2466449.81 2466449.95 2466450.08 0.0089 0.0002

Neptune 2041-01-18 12:14 G 2466537.87 2466538.01 2466538.14 0.0089 0.0007

Neptune 2041-04-16 13:40 G 2466625.93 2466626.07 2466626.20 0.0089 0.0014

Neptune 2041-07-13 15:07 G 2466714.00 2466714.13 2466714.26 0.0089 0.0021

Saturn 2041-08-15 11:31 G 2466746.83 2466746.98 2466747.13 0.0274 0.0150

Jupiter 2041-08-18 22:19 G 2466750.29 2466750.43 2466750.57 0.0490 0.0301

Neptune 2041-10-09 16:33 G 2466802.06 2466802.19 2466802.32 0.0089 0.0028

Saturn 2041-11-12 07:26 G 2466835.63 2466835.81 2466835.98 0.0274 0.0009

Jupiter 2041-11-17 02:52 G 2466840.50 2466840.62 2466840.74 0.0492 0.0366

Neptune 2042-01-05 18:00 G 2466890.13 2466890.25 2466890.38 0.0089 0.0036

Saturn 2042-02-09 03:21 G 2466924.49 2466924.64 2466924.79 0.0273 0.0140

Neptune 2042-04-03 19:26 G 2466978.19 2466978.31 2466978.43 0.0089 0.0043

Neptune 2042-06-30 20:52 G 2467066.26 2467066.37 2467066.48 0.0089 0.0050

Neptune 2042-09-26 22:19 G 2467154.33 2467154.43 2467154.53 0.0089 0.0057

Neptune 2042-12-23 23:45 G 2467242.40 2467242.49 2467242.58 0.0089 0.0064

Neptune 2043-03-22 01:11 G 2467330.47 2467330.55 2467330.63 0.0089 0.0071

Neptune 2043-06-18 02:24 G 2467418.55 2467418.60 2467418.67 0.0089 0.0078

Mars 2043-06-18 19:26 G 2467419.21 2467419.31 2467419.40 0.1828 0.1034

Neptune 2043-09-14 03:50 G 2467506.63 2467506.66 2467506.71 0.0089 0.0085

Mars 2044-07-13 19:40 G 2467810.16 2467810.32 2467810.49 0.1715 0.0273

Mars 2045-05-24 06:14 G 2468124.70 2468124.76 2468124.82 0.1800 0.1489

Jupiter 2047-07-22 14:09 G 2468913.96 2468914.09 2468914.22 0.0536 0.0059

Moon 2049-05-07 12:43 G 2469568.91 2469569.03 2469569.15 0.2645 0.1698

Earth 2049-05-07 14:24 G 2469568.96 2469569.10 2469569.23 0.2642 0.1427 *

Mars 2052-11-08 04:19 G 2470849.64 2470849.68 2470849.72 0.1835 0.1693

Earth 2052-11-09 02:24 G 2470850.50 2470850.60 2470850.70 0.2691 0.0888

Moon 2052-11-09 02:38 G 2470850.51 2470850.61 2470850.72 0.2686 0.0787 *

Jupiter 2053-06-06 20:52 G 2471060.32 2471060.37 2471060.43 0.0490 0.0463

Jupiter 2053-09-05 00:57 G 2471150.38 2471150.54 2471150.71 0.0491 0.0195

Mars 2053-12-03 18:57 G 2471240.14 2471240.29 2471240.45 0.1708 0.0625

Mars 2054-10-14 15:35 G 2471555.06 2471555.15 2471555.25 0.1807 0.0901

Saturn 2057-03-07 12:28 G 2472429.91 2472430.02 2472430.13 0.0286 0.0166

Saturn 2057-06-04 01:11 G 2472518.41 2472518.55 2472518.69 0.0286 0.0039

Saturn 2057-08-31 13:40 G 2472606.94 2472607.07 2472607.20 0.0287 0.0087

Saturn 2057-11-28 01:55 G 2472695.50 2472695.58 2472695.68 0.0288 0.0213

Venus 2058-06-24 22:48 G 2472904.40 2472904.45 2472904.51 0.3693 0.3345

Jupiter 2059-05-10 17:45 G 2473224.11 2473224.24 2473224.37 0.0537 0.0094

Jupiter 2059-08-08 01:26 G 2473313.53 2473313.56 2473313.60 0.0535 0.0508

Uranus 2061-05-20 21:21 G 2473965.32 2473965.39 2473965.46 0.0144 0.0133

Uranus 2061-08-17 05:02 G 2474053.59 2474053.71 2474053.85 0.0143 0.0104

Uranus 2061-11-13 12:57 G 2474141.89 2474142.04 2474142.21 0.0143 0.0075

Uranus 2062-02-09 21:07 G 2474230.20 2474230.38 2474230.56 0.0143 0.0045

Uranus 2062-05-09 05:16 G 2474318.53 2474318.72 2474318.91 0.0143 0.0015

Moon 2062-05-10 20:52 G 2474320.24 2474320.37 2474320.50 0.2646 0.1460

Earth 2062-05-10 21:35 G 2474320.26 2474320.40 2474320.53 0.2640 0.1442 *

Venus 2062-06-24 13:40 G 2474365.00 2474365.07 2474365.13 0.3677 0.2884

Uranus 2062-08-05 13:11 G 2474406.86 2474407.05 2474407.24 0.0143 0.0015

Uranus 2062-11-01 21:21 G 2474495.21 2474495.39 2474495.57 0.0143 0.0045

Uranus 2063-01-29 05:16 G 2474583.57 2474583.72 2474583.89 0.0143 0.0075

Mars 2063-04-25 18:43 G 2474670.20 2474670.28 2474670.36 0.1701 0.1488

Uranus 2063-04-27 13:26 G 2474671.94 2474672.06 2474672.20 0.0143 0.0105

Uranus 2063-07-24 21:35 G 2474760.35 2474760.40 2474760.47 0.0143 0.0135

Venus 2064-01-09 03:21 G 2474928.50 2474928.64 2474928.79 0.3692 0.0156

Mars 2064-03-06 01:11 G 2474985.44 2474985.55 2474985.67 0.1814 0.0307

Jupiter 2065-06-23 22:19 G 2475460.25 2475460.43 2475460.61 0.0491 0.0015

Moon 2065-11-11 19:55 G 2475601.22 2475601.33 2475601.44 0.2685 0.0416

Earth 2065-11-11 19:55 G 2475601.23 2475601.33 2475601.44 0.2693 0.0510 *

Venus 2068-01-08 06:28 G 2476388.67 2476388.77 2476388.86 0.3678 0.1461

Venus 2069-07-25 08:52 G 2476952.80 2476952.87 2476952.93 0.3691 0.3276

Saturn 2071-01-02 12:43 G 2477478.90 2477479.03 2477479.17 0.0275 0.0179

Jupiter 2071-02-26 21:35 G 2477534.29 2477534.40 2477534.52 0.0537 0.0241

Saturn 2071-04-01 08:24 G 2477567.68 2477567.85 2477568.03 0.0274 0.0036

Jupiter 2071-05-27 05:45 G 2477623.65 2477623.74 2477623.83 0.0536 0.0368

Saturn 2071-06-29 04:19 G 2477656.52 2477656.68 2477656.85 0.0273 0.0110

Saturn 2071-09-26 00:43 G 2477745.47 2477745.53 2477745.59 0.0273 0.0256

Venus 2073-07-23 22:48 G 2478412.35 2478412.45 2478412.56 0.3679 0.0162

Mars 2073-07-27 10:33 G 2478415.82 2478415.94 2478416.05 0.1821 0.0330

Mars 2074-08-22 21:21 G 2478807.29 2478807.39 2478807.50 0.1722 0.1292

Jupiter 2077-04-11 20:38 G 2479770.19 2479770.36 2479770.53 0.0490 0.0151

Moon 2078-11-14 12:57 G 2480351.96 2480352.04 2480352.12 0.2691 0.1829

Earth 2078-11-14 13:40 G 2480351.99 2480352.07 2480352.14 0.2694 0.1871 *

Venus 2079-02-06 15:21 G 2480436.04 2480436.14 2480436.24 0.3680 0.1305

Jupiter 2082-12-16 01:11 G 2481844.46 2481844.55 2481844.64 0.0537 0.0395

Mars 2082-12-17 19:26 G 2481846.21 2481846.31 2481846.41 0.1828 0.0968

Jupiter 2083-03-15 09:35 G 2481933.78 2481933.90 2481934.02 0.0536 0.0220

Mars 2084-01-12 20:24 G 2482237.19 2482237.35 2482237.51 0.1715 0.0365

Venus 2084-08-22 07:40 G 2482459.75 2482459.82 2482459.89 0.3681 0.2635

Mars 2084-11-22 06:14 G 2482551.70 2482551.76 2482551.82 0.1799 0.1547

Earth 2085-11-07 13:26 G 2482901.99 2482902.06 2482902.13 0.2690 0.2000

Moon 2085-11-07 14:09 G 2482902.01 2482902.09 2482902.17 0.2687 0.1861 *

Saturn	2086-07-25 13:55	G	2483161.99	2483162.08	2483162.18	0.0286	0.0206
Saturn	2086-10-22 02:38	G	2483250.48	2483250.61	2483250.74	0.0286	0.0080
Saturn	2087-01-18 15:07	G	2483339.00	2483339.13	2483339.27	0.0287	0.0048
Saturn	2087-04-17 03:35	G	2483427.55	2483427.65	2483427.76	0.0288	0.0173
Jupiter	2089-01-28 19:11	G	2484080.17	2484080.30	2484080.44	0.0490	0.0314
Jupiter	2089-04-29 00:00	G	2484170.37	2484170.50	2484170.62	0.0492	0.0354
Mars	2092-05-09 04:19	G	2485276.63	2485276.68	2485276.74	0.1835	0.1626
Mars	2093-06-03 19:55	G	2485667.17	2485667.33	2485667.48	0.1708	0.0530
Mars	2094-04-14 15:50	G	2485982.06	2485982.16	2485982.26	0.1807	0.0965
Jupiter	2095-01-01 12:57	G	2486243.91	2486244.04	2486244.17	0.0536	0.0067
Moon	2095-05-08 19:26	G	2486371.17	2486371.31	2486371.46	0.2645	0.1001
Earth	2095-05-08 21:07	G	2486371.23	2486371.38	2486371.53	0.2642	0.0867 *
Earth	2098-11-10 07:11	G	2487652.69	2487652.80	2487652.91	0.2691	0.0599
Moon	2098-11-10 07:26	G	2487652.70	2487652.81	2487652.92	0.2685	0.0616 *
Saturn	2100-05-22 12:57	G	2488210.94	2488211.04	2488211.15	0.0275	0.0218
Saturn	2100-08-19 08:38	G	2488299.69	2488299.86	2488300.03	0.0274	0.0074
Saturn	2100-11-16 04:33	G	2488388.52	2488388.69	2488388.86	0.0273	0.0070
Jupiter	2100-11-17 18:28	G	2488390.22	2488390.27	2488390.32	0.0490	0.0469
Saturn	2101-02-13 00:28	G	2488477.42	2488477.52	2488477.64	0.0273	0.0217
Jupiter	2101-02-15 22:33	G	2488480.27	2488480.44	2488480.60	0.0491	0.0190
Mars	2102-10-25 19:26	G	2489097.22	2489097.31	2489097.40	0.1702	0.1395
Mars	2103-09-06 01:11	G	2489412.44	2489412.55	2489412.66	0.1814	0.0357
Uranus	2104-11-17 02:38	G	2489850.55	2489850.61	2489850.67	0.0135	0.0119
Uranus	2105-02-13 05:31	G	2489938.65	2489938.73	2489938.83	0.0135	0.0102
Uranus	2105-05-12 08:52	G	2490026.77	2490026.87	2490026.98	0.0135	0.0084
Uranus	2105-08-08 12:14	G	2490114.89	2490115.01	2490115.12	0.0135	0.0066
Uranus	2105-11-04 15:21	G	2490203.02	2490203.14	2490203.26	0.0135	0.0048
Uranus	2106-01-31 18:28	G	2490291.14	2490291.27	2490291.40	0.0135	0.0031
Uranus	2106-04-29 21:35	G	2490379.27	2490379.40	2490379.54	0.0135	0.0014
Uranus	2106-07-27 00:57	G	2490467.40	2490467.54	2490467.67	0.0135	0.0005

Jupiter 2106-10-21 15:50 G 2490554.03 2490554.16 2490554.29 0.0536 0.0101

Uranus 2106-10-23 04:04 G 2490555.54 2490555.67 2490555.80 0.0135 0.0022

Jupiter 2107-01-18 23:31 G 2490643.44 2490643.48 2490643.53 0.0535 0.0501

Uranus 2107-01-19 07:11 G 2490643.67 2490643.80 2490643.93 0.0136 0.0040

Uranus 2107-04-17 10:19 G 2490731.81 2490731.93 2490732.05 0.0136 0.0057

Uranus 2107-07-14 13:26 G 2490819.95 2490820.06 2490820.17 0.0136 0.0075

Uranus 2107-10-10 16:19 G 2490908.10 2490908.18 2490908.29 0.0136 0.0093

Uranus 2108-01-06 19:40 G 2490996.25 2490996.32 2490996.40 0.0136 0.0110

Uranus 2108-04-03 22:48 G 2491084.41 2491084.45 2491084.50 0.0136 0.0127

Moon 2108-05-12 03:50 G 2491122.55 2491122.66 2491122.77 0.2646 0.1883

Earth 2108-05-12 04:19 G 2491122.57 2491122.68 2491122.78 0.2640 0.2010 *

Moon 2111-11-14 00:28 G 2492403.42 2492403.52 2492403.63 0.2686 0.0815

Earth 2111-11-14 00:43 G 2492403.43 2492403.53 2492403.64 0.2693 0.0793 *

Jupiter 2112-12-04 20:38 G 2492790.18 2492790.36 2492790.54 0.0491 0.0024

Mars 2113-01-26 10:33 G 2492842.82 2492842.94 2492843.05 0.1821 0.0272

Mars 2114-02-21 22:19 G 2493234.33 2493234.43 2493234.53 0.1722 0.1394

Venus 2115-01-30 23:31 G 2493577.38 2493577.48 2493577.59 0.3693 0.2382

Saturn 2115-12-13 17:16 G 2493894.15 2493894.22 2493894.31 0.0285 0.0229

Saturn 2116-03-11 06:14 G 2493982.63 2493982.76 2493982.89 0.0286 0.0102

Saturn 2116-06-07 18:43 G 2494071.15 2494071.28 2494071.42 0.0287 0.0025

Saturn 2116-09-04 07:11 G 2494159.69 2494159.80 2494159.92 0.0288 0.0150

Saturn 2116-12-01 19:26 G 2494248.28 2494248.31 2494248.35 0.0288 0.0275

Jupiter 2118-08-09 19:11 G 2494864.19 2494864.30 2494864.42 0.0537 0.0257

Jupiter 2118-11-07 03:21 G 2494953.55 2494953.64 2494953.74 0.0535 0.0354

Venus 2119-01-30 11:31 G 2495037.90 2495037.98 2495038.06 0.3677 0.2410

Venus 2120-08-16 04:19 G 2495601.54 2495601.68 2495601.83 0.3692 0.0890

Neptune 2120-11-12 17:02 G 2495690.16 2495690.21 2495690.30 0.0088 0.0081

Neptune 2121-02-08 20:09 G 2495778.25 2495778.34 2495778.46 0.0088 0.0072

Neptune 2121-05-07 23:16 G 2495866.36 2495866.47 2495866.61 0.0088 0.0063

Neptune 2121-08-04 02:24 G 2495954.47 2495954.60 2495954.76 0.0088 0.0054

Neptune 2121-10-31 05:31 G 2496042.59 2496042.73 2496042.90 0.0088 0.0045

Neptune 2122-01-27 08:38 G 2496130.70 2496130.86 2496131.04 0.0088 0.0036

Neptune 2122-04-25 11:45 G 2496218.83 2496218.99 2496219.18 0.0088 0.0027

Mars 2122-06-18 19:40 G 2496273.22 2496273.32 2496273.42 0.1828 0.0901

Neptune 2122-07-22 15:07 G 2496306.95 2496307.13 2496307.31 0.0088 0.0017

Neptune 2122-10-18 18:14 G 2496395.08 2496395.26 2496395.45 0.0088 0.0008

Neptune 2123-01-14 21:21 G 2496483.21 2496483.39 2496483.58 0.0088 0.0003

Neptune 2123-04-13 00:28 G 2496571.34 2496571.52 2496571.71 0.0088 0.0011

Neptune 2123-07-10 03:35 G 2496659.48 2496659.65 2496659.84 0.0088 0.0020

Mars 2123-07-14 21:07 G 2496664.22 2496664.38 2496664.54 0.1715 0.0460

Neptune 2123-10-06 06:57 G 2496747.62 2496747.79 2496747.97 0.0088 0.0029

Neptune 2124-01-02 09:50 G 2496835.76 2496835.91 2496836.09 0.0088 0.0039

Neptune 2124-03-30 13:11 G 2496923.90 2496924.05 2496924.22 0.0088 0.0048

Mars 2124-05-24 06:14 G 2496978.71 2496978.76 2496978.81 0.1800 0.1610

Neptune 2124-06-26 16:33 G 2497012.05 2497012.19 2497012.34 0.0088 0.0057

Venus 2124-08-15 04:04 G 2497061.57 2497061.67 2497061.77 0.3678 0.0996

Jupiter 2124-09-22 18:14 G 2497100.09 2497100.26 2497100.43 0.0490 0.0158

Neptune 2124-09-22 19:26 G 2497100.21 2497100.31 2497100.45 0.0088 0.0067 *

Moon 2124-11-15 17:45 G 2497154.17 2497154.24 2497154.31 0.2692 0.1999

Earth 2124-11-15 18:28 G 2497154.21 2497154.27 2497154.33 0.2694 0.2161 *

Neptune 2124-12-19 22:48 G 2497188.37 2497188.45 2497188.56 0.0088 0.0076

Neptune 2125-03-18 01:55 G 2497276.56 2497276.58 2497276.64 0.0088 0.0086

Saturn 2129-10-09 14:38 G 2498943.03 2498943.11 2498943.19 0.0275 0.0244

Saturn 2130-01-06 10:04 G 2499031.76 2499031.92 2499032.09 0.0274 0.0102

Venus 2130-02-28 20:38 G 2499085.25 2499085.36 2499085.46 0.3679 0.0393

Saturn 2130-04-05 06:00 G 2499120.57 2499120.75 2499120.93 0.0274 0.0043

Jupiter 2130-05-28 23:02 G 2499174.38 2499174.46 2499174.55 0.0537 0.0405

Saturn 2130-07-03 01:55 G 2499209.46 2499209.58 2499209.71 0.0273 0.0188

Jupiter 2130-08-26 07:40 G 2499263.70 2499263.82 2499263.94 0.0536 0.0212

Mars 2131-11-09 04:19 G 2499703.62 2499703.68 2499703.74 0.1835 0.1564

Earth 2131-11-09 18:14 G 2499704.18 2499704.26 2499704.35 0.2690 0.1712

Moon 2131-11-09 18:57 G 2499704.20 2499704.29 2499704.38 0.2687 0.1636 *

Mars 2132-12-03 20:24 G 2500094.19 2500094.35 2500094.51 0.1708 0.0448

Mars 2133-10-14 15:50 G 2500409.07 2500409.16 2500409.25 0.1806 0.1026

Venus 2135-09-14 12:57 G 2501108.95 2501109.04 2501109.14 0.3680 0.1747

Jupiter 2136-07-11 16:48 G 2501410.07 2501410.20 2501410.34 0.0490 0.0319

Jupiter 2136-10-09 21:07 G 2501500.26 2501500.38 2501500.51 0.0491 0.0347

Venus 2141-03-30 05:16 G 2503132.66 2503132.72 2503132.78 0.3681 0.3066

Moon 2141-05-10 02:24 G 2503173.45 2503173.60 2503173.75 0.2645 0.0486

Earth 2141-05-10 03:35 G 2503173.50 2503173.65 2503173.81 0.2641 0.0310 *

Mars 2142-04-25 20:09 G 2503524.24 2503524.34 2503524.45 0.1702 0.1301

Jupiter 2142-06-14 11:31 G 2503573.85 2503573.98 2503574.10 0.0536 0.0065

Mars 2143-03-07 01:11 G 2503839.44 2503839.55 2503839.66 0.1814 0.0422

Earth 2144-11-11 12:00 G 2504454.89 2504455.00 2504455.11 0.2691 0.0316

Moon 2144-11-11 12:14 G 2504454.90 2504455.01 2504455.11 0.2684 0.0283 *

Saturn 2145-05-01 18:43 G 2504626.24 2504626.28 2504626.32 0.0285 0.0271

Uranus 2145-06-11 05:31 G 2504666.64 2504666.73 2504666.84 0.0144 0.0123

Saturn 2145-07-29 07:26 G 2504714.69 2504714.81 2504714.93 0.0286 0.0144

Uranus 2145-09-07 13:40 G 2504754.93 2504755.07 2504755.21 0.0143 0.0093

Saturn 2145-10-25 20:09 G 2504803.20 2504803.34 2504803.48 0.0287 0.0018

Uranus 2145-12-04 21:35 G 2504843.23 2504843.40 2504843.57 0.0143 0.0063

Saturn 2146-01-22 08:38 G 2504891.74 2504891.86 2504891.99 0.0287 0.0108

Uranus 2146-03-03 05:31 G 2504931.55 2504931.73 2504931.92 0.0143 0.0034

Saturn 2146-04-20 21:07 G 2504980.30 2504980.38 2504980.45 0.0288 0.0233

Uranus 2146-05-30 13:40 G 2505019.88 2505020.07 2505020.26 0.0143 0.0004

Uranus 2146-08-26 21:35 G 2505108.22 2505108.40 2505108.59 0.0143 0.0026

Uranus 2146-11-23 05:45 G 2505196.57 2505196.74 2505196.92 0.0143 0.0056

Uranus 2147-02-19 13:40 G 2505284.93 2505285.07 2505285.23 0.0143 0.0086

Uranus 2147-05-18 21:50 G 2505373.31 2505373.41 2505373.53 0.0143 0.0116

Jupiter 2148-04-29 15:35 G 2505720.12 2505720.15 2505720.19 0.0490 0.0479

Jupiter	**2148-07-28 19:40**	**G**	**2505810.15**	**2505810.32**	**2505810.49**	**0.0491**	**0.0179**
Mars	**2152-07-27 10:33**	**G**	**2507269.82**	**2507269.94**	**2507270.05**	**0.1821**	**0.0205**
Mars	**2153-08-22 23:16**	**G**	**2507661.39**	**2507661.47**	**2507661.55**	**0.1722**	**0.1497**
Jupiter	**2154-04-02 14:52**	**G**	**2507883.99**	**2507884.12**	**2507884.25**	**0.0536**	**0.0092**
Moon	**2154-05-13 10:33**	**G**	**2507924.93**	**2507924.94**	**2507924.96**	**0.2647**	**0.2629**
Earth	**2154-05-13 11:02**	**G**	**2507924.93**	**2507924.96**	**2507924.99**	**0.2640**	**0.2581** *
Jupiter	**2154-06-30 22:33**	**G**	**2507973.41**	**2507973.44**	**2507973.48**	**0.0535**	**0.0510**
Moon	**2157-11-14 05:16**	**G**	**2509205.62**	**2509205.72**	**2509205.82**	**0.2687**	**0.0964**
Earth	**2157-11-14 05:31**	**G**	**2509205.64**	**2509205.73**	**2509205.83**	**0.2693**	**0.1078** *
Saturn	**2159-05-26 09:35**	**G**	**2509763.76**	**2509763.90**	**2509764.06**	**0.0274**	**0.0145**
Saturn	**2159-08-23 05:31**	**G**	**2509852.55**	**2509852.73**	**2509852.91**	**0.0274**	**0.0002**
Saturn	**2159-11-20 01:26**	**G**	**2509941.41**	**2509941.56**	**2509941.72**	**0.0273**	**0.0145**
Jupiter	**2160-05-16 18:28**	**G**	**2510120.09**	**2510120.27**	**2510120.44**	**0.0491**	**0.0021**
Mars	**2161-12-17 19:26**	**G**	**2510700.21**	**2510700.31**	**2510700.42**	**0.1828**	**0.0844**
Mars	**2163-01-12 21:50**	**G**	**2511091.25**	**2511091.41**	**2511091.57**	**0.1715**	**0.0554**
Mars	**2163-11-23 06:14**	**G**	**2511405.72**	**2511405.76**	**2511405.80**	**0.1799**	**0.1667**
Moon	**2164-11-07 06:14**	**G**	**2511755.75**	**2511755.76**	**2511755.76**	**0.2689**	**0.2676**
Jupiter	**2166-01-19 17:31**	**G**	**2512194.12**	**2512194.23**	**2512194.35**	**0.0537**	**0.0260**
Jupiter	**2166-04-19 01:40**	**G**	**2512283.48**	**2512283.57**	**2512283.67**	**0.0535**	**0.0350**
Venus	**2170-02-20 16:19**	**G**	**2513687.14**	**2513687.18**	**2513687.22**	**0.3677**	**0.3376**
Moon	**2170-11-16 22:33**	**G**	**2513956.39**	**2513956.44**	**2513956.49**	**0.2692**	**0.2406**
Earth	**2170-11-16 23:16**	**G**	**2513956.43**	**2513956.47**	**2513956.51**	**0.2694**	**0.2443** *
Mars	**2171-05-10 04:19**	**G**	**2514130.62**	**2514130.68**	**2514130.75**	**0.1835**	**0.1499**
Venus	**2171-09-07 00:28**	**G**	**2514250.39**	**2514250.52**	**2514250.66**	**0.3692**	**0.1384**
Jupiter	**2172-03-04 16:48**	**G**	**2514430.03**	**2514430.20**	**2514430.37**	**0.0491**	**0.0149**
Mars	**2172-06-03 21:07**	**G**	**2514521.22**	**2514521.38**	**2514521.55**	**0.1708**	**0.0346**
Mars	**2173-04-14 15:50**	**G**	**2514836.07**	**2514836.16**	**2514836.25**	**0.1806**	**0.1084**
Earth	**2174-05-08 03:21**	**G**	**2515224.61**	**2515224.64**	**2515224.67**	**0.2643**	**0.2572**
Saturn	**2174-12-16 10:33**	**G**	**2515446.83**	**2515446.94**	**2515447.05**	**0.0286**	**0.0170**
Saturn	**2175-03-14 23:16**	**G**	**2515535.34**	**2515535.47**	**2515535.61**	**0.0287**	**0.0044**

Saturn 2175-06-11 12:00 G 2515623.87 2515624.00 2515624.13 0.0287 0.0084

Venus 2175-09-06 09:07 G 2515710.79 2515710.88 2515710.97 0.3678 0.1937

Saturn 2175-09-08 00:14 G 2515712.42 2515712.51 2515712.61 0.0288 0.0209

Venus 2177-03-23 05:31 G 2516274.61 2516274.73 2516274.86 0.3691 0.1936

Jupiter 2177-11-07 20:52 G 2516504.29 2516504.37 2516504.46 0.0537 0.0417

Earth 2177-11-09 23:02 G 2516506.37 2516506.46 2516506.56 0.2690 0.1422

Moon 2177-11-09 23:31 G 2516506.39 2516506.48 2516506.58 0.2685 0.1356 *

Jupiter 2178-02-05 05:31 G 2516593.61 2516593.73 2516593.85 0.0536 0.0200

Venus 2181-03-22 01:55 G 2517734.47 2517734.58 2517734.68 0.3679 0.0551

Mars 2181-10-24 20:38 G 2517951.25 2517951.36 2517951.48 0.1702 0.1222

Mars 2182-09-05 01:11 G 2518266.44 2518266.55 2518266.66 0.1814 0.0488

Jupiter 2183-12-22 14:24 G 2518739.97 2518740.10 2518740.24 0.0490 0.0324

Jupiter 2184-03-21 18:43 G 2518830.16 2518830.28 2518830.41 0.0491 0.0341

Venus 2186-10-05 18:14 G 2519758.16 2519758.26 2519758.37 0.3679 0.0850

Moon 2187-05-11 09:21 G 2519975.74 2519975.89 2519976.05 0.2646 0.0121

Earth 2187-05-11 10:19 G 2519975.77 2519975.93 2519976.09 0.2641 0.0267 *

Uranus 2188-09-10 06:57 G 2520463.76 2520463.79 2520463.82 0.0135 0.0131

Saturn 2188-10-12 11:16 G 2520495.84 2520495.97 2520496.11 0.0275 0.0171

Uranus 2188-12-07 09:50 G 2520551.85 2520551.91 2520551.99 0.0135 0.0114

Saturn 2189-01-09 06:57 G 2520584.61 2520584.79 2520584.97 0.0274 0.0028

Uranus 2189-03-05 13:11 G 2520639.96 2520640.05 2520640.15 0.0135 0.0096

Saturn 2189-04-08 02:52 G 2520673.46 2520673.62 2520673.78 0.0273 0.0117

Uranus 2189-06-01 16:33 G 2520728.08 2520728.19 2520728.30 0.0135 0.0078

Saturn 2189-07-05 22:48 G 2520762.42 2520762.45 2520762.51 0.0273 0.0263

Uranus 2189-08-28 19:40 G 2520816.20 2520816.32 2520816.44 0.0135 0.0060

Jupiter 2189-11-24 09:35 G 2520903.77 2520903.90 2520904.03 0.0537 0.0057

Uranus 2189-11-24 22:48 G 2520904.33 2520904.45 2520904.58 0.0135 0.0043

Uranus 2190-02-21 02:09 G 2520992.46 2520992.59 2520992.72 0.0135 0.0025

Uranus 2190-05-20 05:16 G 2521080.59 2521080.72 2521080.85 0.0135 0.0008

Uranus 2190-08-16 08:24 G 2521168.72 2521168.85 2521168.98 0.0135 0.0010

Uranus 2190-11-12 11:31 G 2521256.85 2521256.98 2521257.11 0.0135 0.0028

Moon 2190-11-12 16:48 G 2521257.09 2521257.20 2521257.31 0.2684 0.0105 *

Earth 2190-11-12 16:48 G 2521257.09 2521257.20 2521257.31 0.2691 0.0028 *

Uranus 2191-02-08 14:38 G 2521344.99 2521345.11 2521345.24 0.0136 0.0045

Uranus 2191-05-07 17:45 G 2521433.13 2521433.24 2521433.36 0.0136 0.0063

Uranus 2191-08-03 20:52 G 2521521.27 2521521.37 2521521.48 0.0136 0.0080

Uranus 2191-10-31 00:00 G 2521609.41 2521609.50 2521609.60 0.0136 0.0098

Mars 2192-01-26 10:33 G 2521696.82 2521696.94 2521697.06 0.1820 0.0133

Uranus 2192-01-27 03:07 G 2521697.57 2521697.63 2521697.70 0.0136 0.0115

Venus 2192-04-20 10:48 G 2521781.86 2521781.95 2521782.03 0.3680 0.2190

Uranus 2192-04-24 06:00 G 2521785.74 2521785.75 2521785.79 0.0136 0.0134

Mars 2193-02-20 23:31 G 2522088.42 2522088.48 2522088.55 0.1722 0.1580

Pluto 2193-10-16 21:50 G 2522326.37 2522326.41 2522326.47 0.0071 0.0065

Pluto 2194-01-12 22:48 G 2522414.37 2522414.45 2522414.54 0.0071 0.0057

Pluto 2194-04-10 23:45 G 2522502.39 2522502.49 2522502.60 0.0072 0.0048

Pluto 2194-07-08 00:43 G 2522590.41 2522590.53 2522590.65 0.0072 0.0039

Pluto 2194-10-04 01:11 G 2522678.44 2522678.55 2522678.69 0.0072 0.0031

Pluto 2194-12-31 02:24 G 2522766.47 2522766.60 2522766.74 0.0072 0.0021

Pluto 2195-03-29 03:21 G 2522854.50 2522854.64 2522854.78 0.0072 0.0012

Pluto 2195-06-25 04:19 G 2522942.54 2522942.68 2522942.82 0.0072 0.0003

Pluto 2195-09-21 05:02 G 2523030.57 2523030.71 2523030.86 0.0072 0.0007

Jupiter 2195-10-10 13:26 G 2523050.03 2523050.06 2523050.09 0.0490 0.0482

Pluto 2195-12-18 06:00 G 2523118.61 2523118.75 2523118.89 0.0072 0.0016

Jupiter 2196-01-08 17:16 G 2523140.05 2523140.22 2523140.39 0.0491 0.0174

Pluto 2196-03-15 06:57 G 2523206.66 2523206.79 2523206.92 0.0072 0.0025

Pluto 2196-06-11 07:40 G 2523294.71 2523294.82 2523294.96 0.0073 0.0035

Pluto 2196-09-07 08:38 G 2523382.76 2523382.86 2523382.98 0.0073 0.0044

Pluto 2196-12-04 09:35 G 2523470.81 2523470.90 2523471.00 0.0073 0.0054

Pluto 2197-03-02 10:33 G 2523558.88 2523558.94 2523559.02 0.0073 0.0063

Pluto 2197-05-29 11:45 G 2523646.99 2523646.99 2523646.99 0.0073 0.0073

Venus 2197-11-04 02:52 G 2523805.59 2523805.62 2523805.65 0.3681 0.3496

Mars 2201-06-18 19:26 G 2525127.21 2525127.31 2525127.42 0.1828 0.0780

Jupiter 2201-09-13 13:26 G 2525213.93 2525214.06 2525214.18 0.0537 0.0093

Jupiter 2201-12-11 21:07 G 2525303.35 2525303.38 2525303.42 0.0535 0.0510

Mars 2202-07-14 22:33 G 2525518.29 2525518.44 2525518.60 0.1716 0.0655

Neptune 2202-08-29 15:21 G 2525564.12 2525564.14 2525564.19 0.0089 0.0087

Neptune 2202-11-25 17:16 G 2525652.16 2525652.22 2525652.28 0.0089 0.0079

Neptune 2203-02-21 18:43 G 2525740.20 2525740.28 2525740.36 0.0089 0.0072

Neptune 2203-05-20 20:09 G 2525828.25 2525828.34 2525828.44 0.0089 0.0064

Mars 2203-05-25 06:14 G 2525832.73 2525832.76 2525832.79 0.1799 0.1728

Neptune 2203-08-16 21:50 G 2525916.30 2525916.41 2525916.52 0.0089 0.0057

Neptune 2203-11-12 23:16 G 2526004.36 2526004.47 2526004.59 0.0089 0.0050

Moon 2203-11-16 09:50 G 2526007.82 2526007.91 2526008.01 0.2688 0.1320

Earth 2203-11-16 10:33 G 2526007.84 2526007.94 2526008.03 0.2693 0.1359 *

Neptune 2204-02-09 00:43 G 2526092.42 2526092.53 2526092.66 0.0089 0.0043

Saturn 2204-05-05 11:45 G 2526178.90 2526178.99 2526179.08 0.0285 0.0213

Neptune 2204-05-07 02:09 G 2526180.47 2526180.59 2526180.73 0.0089 0.0036

Saturn 2204-08-02 00:28 G 2526267.39 2526267.52 2526267.65 0.0286 0.0087

Neptune 2204-08-03 03:50 G 2526268.53 2526268.66 2526268.79 0.0089 0.0028

Saturn 2204-10-29 13:11 G 2526355.91 2526356.05 2526356.18 0.0287 0.0040

Neptune 2204-10-30 05:16 G 2526356.59 2526356.72 2526356.86 0.0089 0.0021

Saturn 2205-01-26 01:40 G 2526444.46 2526444.57 2526444.68 0.0288 0.0165

Neptune 2205-01-26 06:57 G 2526444.65 2526444.79 2526444.93 0.0089 0.0013 *

Neptune 2205-04-24 08:24 G 2526532.71 2526532.85 2526532.99 0.0089 0.0006

Neptune 2205-07-21 09:50 G 2526620.78 2526620.91 2526621.05 0.0089 0.0002

Neptune 2205-10-17 11:16 G 2526708.84 2526708.97 2526709.11 0.0089 0.0009

Neptune 2206-01-13 12:43 G 2526796.90 2526797.03 2526797.17 0.0089 0.0016

Neptune 2206-04-11 14:24 G 2526884.96 2526885.10 2526885.23 0.0089 0.0023

Neptune 2206-07-08 15:50 G 2526973.03 2526973.16 2526973.29 0.0089 0.0030

Neptune 2206-10-04 17:16 G 2527061.09 2527061.22 2527061.34 0.0089 0.0037

Neptune 2206-12-31 18:43 G 2527149.16 2527149.28 2527149.40 0.0089 0.0044

Neptune 2207-03-29 20:09 G 2527237.23 2527237.34 2527237.45 0.0089 0.0051

Neptune 2207-06-25 21:35 G 2527325.30 2527325.40 2527325.50 0.0089 0.0058

Neptune 2207-09-21 23:02 G 2527413.37 2527413.46 2527413.55 0.0089 0.0065

Jupiter 2207-10-28 15:35 G 2527449.98 2527450.15 2527450.33 0.0491 0.0016

Neptune 2207-12-19 00:28 G 2527501.44 2527501.52 2527501.60 0.0089 0.0072

Neptune 2208-03-16 01:55 G 2527589.52 2527589.58 2527589.64 0.0089 0.0079

Neptune 2208-06-12 03:21 G 2527677.60 2527677.64 2527677.67 0.0089 0.0086

Mars 2210-11-09 04:33 G 2528557.61 2528557.69 2528557.76 0.1834 0.1437

Earth 2210-11-09 10:19 G 2528557.89 2528557.93 2528557.96 0.2688 0.2535

Moon 2210-11-09 11:02 G 2528557.92 2528557.96 2528558.00 0.2689 0.2479 *

Mars 2211-12-04 21:50 G 2528948.25 2528948.41 2528948.57 0.1709 0.0256

Mars 2212-10-14 15:50 G 2529263.07 2529263.16 2529263.25 0.1806 0.1145

Jupiter 2213-07-02 16:48 G 2529524.08 2529524.20 2529524.32 0.0537 0.0247

Jupiter 2213-09-30 00:57 G 2529613.45 2529613.54 2529613.63 0.0535 0.0362

Moon 2216-11-18 03:21 G 2530758.61 2530758.64 2530758.67 0.2693 0.2565

Saturn 2218-03-02 10:04 G 2531227.83 2531227.92 2531228.03 0.0275 0.0219

Saturn 2218-05-30 05:45 G 2531316.58 2531316.74 2531316.92 0.0274 0.0076

Saturn 2218-08-27 01:40 G 2531405.40 2531405.57 2531405.75 0.0273 0.0069

Saturn 2218-11-23 21:35 G 2531494.30 2531494.40 2531494.52 0.0273 0.0215

Jupiter 2219-08-16 14:38 G 2531759.94 2531760.11 2531760.28 0.0491 0.0150

Moon 2220-05-09 08:24 G 2532026.77 2532026.85 2532026.92 0.2644 0.2319

Earth 2220-05-09 09:50 G 2532026.82 2532026.91 2532027.01 0.2643 0.2030 *

Mars 2221-04-25 21:35 G 2532378.28 2532378.40 2532378.52 0.1702 0.1121

Mars 2222-03-07 01:11 G 2532693.44 2532693.55 2532693.66 0.1813 0.0547

Venus 2222-09-28 21:07 G 2532899.34 2532899.38 2532899.42 0.3693 0.3529

Earth 2223-11-12 03:50 G 2533308.57 2533308.66 2533308.76 0.2690 0.1137

Moon 2223-11-12 04:19 G 2533308.58 2533308.68 2533308.78 0.2684 0.1038 *

Jupiter 2225-04-20 19:26 G 2533834.23 2533834.31 2533834.40 0.0537 0.0415

Jupiter 2225-07-19 04:04 G 2533923.55 2533923.67 2533923.79 0.0536 0.0201

Venus	**2226-09-28 14:09**	**G**	**2534360.03**	**2534360.09**	**2534360.16**	**0.3677**	**0.2894**
Venus	**2228-04-14 01:26**	**G**	**2534923.42**	**2534923.56**	**2534923.71**	**0.3692**	**0.0386**
Uranus	**2229-04-05 06:00**	**G**	**2535279.73**	**2535279.75**	**2535279.80**	**0.0144**	**0.0141**
Uranus	**2229-07-02 14:24**	**G**	**2535367.98**	**2535368.10**	**2535368.22**	**0.0144**	**0.0111**
Uranus	**2229-09-28 22:04**	**G**	**2535456.27**	**2535456.42**	**2535456.58**	**0.0143**	**0.0082**
Uranus	**2229-12-26 06:14**	**G**	**2535544.58**	**2535544.76**	**2535544.94**	**0.0143**	**0.0052**
Uranus	**2230-03-24 14:09**	**G**	**2535632.91**	**2535633.09**	**2535633.28**	**0.0143**	**0.0022**
Uranus	**2230-06-20 22:19**	**G**	**2535721.24**	**2535721.43**	**2535721.62**	**0.0143**	**0.0008**
Uranus	**2230-09-17 06:14**	**G**	**2535809.58**	**2535809.76**	**2535809.95**	**0.0143**	**0.0038**
Uranus	**2230-12-14 14:09**	**G**	**2535897.94**	**2535898.09**	**2535898.27**	**0.0143**	**0.0068**
Uranus	**2231-03-12 22:19**	**G**	**2535986.30**	**2535986.43**	**2535986.58**	**0.0143**	**0.0098**
Jupiter	**2231-06-04 13:26**	**G**	**2536069.92**	**2536070.06**	**2536070.19**	**0.0490**	**0.0313**
Uranus	**2231-06-09 06:28**	**G**	**2536074.70**	**2536074.77**	**2536074.87**	**0.0143**	**0.0128**
Mars	**2231-07-28 10:33**	**G**	**2536123.82**	**2536123.94**	**2536124.05**	**0.1821**	**0.0092**
Jupiter	**2231-09-02 17:45**	**G**	**2536160.12**	**2536160.24**	**2536160.36**	**0.0492**	**0.0354**
Venus	**2232-04-13 06:57**	**G**	**2536383.69**	**2536383.79**	**2536383.89**	**0.3678**	**0.1464**
Mars	**2232-08-23 00:43**	**G**	**2536515.50**	**2536515.53**	**2536515.56**	**0.1723**	**0.1689**
Moon	**2233-05-12 16:04**	**G**	**2536778.02**	**2536778.17**	**2536778.32**	**0.2647**	**0.0770**
Earth	**2233-05-12 17:02**	**G**	**2536778.06**	**2536778.21**	**2536778.36**	**0.2641**	**0.0818**	*****
Saturn	**2233-09-22 14:24**	**G**	**2536911.03**	**2536911.10**	**2536911.17**	**0.0285**	**0.0243**
Venus	**2233-10-29 06:43**	**G**	**2536947.70**	**2536947.78**	**2536947.86**	**0.3691**	**0.3002**
Saturn	**2233-12-20 03:21**	**G**	**2536999.51**	**2536999.64**	**2536999.76**	**0.0286**	**0.0116**
Saturn	**2234-03-18 15:50**	**G**	**2537088.03**	**2537088.16**	**2537088.30**	**0.0287**	**0.0013**
Saturn	**2234-06-15 04:19**	**G**	**2537176.57**	**2537176.68**	**2537176.80**	**0.0288**	**0.0137**
Saturn	**2234-09-11 16:48**	**G**	**2537265.15**	**2537265.20**	**2537265.26**	**0.0288**	**0.0261**
Moon	**2236-11-13 21:35**	**G**	**2538059.29**	**2538059.40**	**2538059.51**	**0.2685**	**0.0265**
Earth	**2236-11-13 21:35**	**G**	**2538059.29**	**2538059.40**	**2538059.51**	**0.2692**	**0.0263**	*****
Jupiter	**2237-05-07 07:40**	**G**	**2538233.69**	**2538233.82**	**2538233.95**	**0.0536**	**0.0050**
Venus	**2237-10-27 23:31**	**G**	**2538407.37**	**2538407.48**	**2538407.59**	**0.3679**	**0.0089**
Mars	**2240-12-17 19:40**	**G**	**2539554.21**	**2539554.32**	**2539554.43**	**0.1828**	**0.0710**

Mars	**2242-01-12 23:16**	**G**	**2539945.32**	**2539945.47**	**2539945.62**	**0.1715**	**0.0739**
Mars	**2242-11-23 06:14**	**G**	**2540259.75**	**2540259.76**	**2540259.77**	**0.1799**	**0.1787**
Jupiter	**2243-03-23 11:16**	**G**	**2540379.95**	**2540379.97**	**2540380.00**	**0.0490**	**0.0483**
Venus	**2243-05-13 16:04**	**G**	**2540431.07**	**2540431.17**	**2540431.27**	**0.3680**	**0.1293**
Jupiter	**2243-06-21 15:07**	**G**	**2540469.96**	**2540470.13**	**2540470.30**	**0.0491**	**0.0172**
Saturn	**2247-07-20 11:31**	**G**	**2541959.92**	**2541959.98**	**2541960.07**	**0.0275**	**0.0247**
Saturn	**2247-10-17 07:11**	**G**	**2542048.64**	**2542048.80**	**2542048.97**	**0.0274**	**0.0104**
Saturn	**2248-01-14 03:07**	**G**	**2542137.45**	**2542137.63**	**2542137.80**	**0.0274**	**0.0041**
Saturn	**2248-04-11 23:02**	**G**	**2542226.33**	**2542226.46**	**2542226.59**	**0.0273**	**0.0186**
Venus	**2248-11-26 08:24**	**G**	**2542454.78**	**2542454.85**	**2542454.92**	**0.3681**	**0.2624**
Jupiter	**2249-02-23 11:31**	**G**	**2542543.85**	**2542543.98**	**2542544.11**	**0.0537**	**0.0098**
Jupiter	**2249-05-23 19:26**	**G**	**2542633.28**	**2542633.31**	**2542633.35**	**0.0535**	**0.0507**
Moon	**2249-11-16 14:38**	**G**	**2542810.02**	**2542810.11**	**2542810.20**	**0.2688**	**0.1525**
Earth	**2249-11-16 15:21**	**G**	**2542810.05**	**2542810.14**	**2542810.22**	**0.2693**	**0.1644**	*
Mars	**2250-05-10 04:33**	**G**	**2542984.61**	**2542984.69**	**2542984.76**	**0.1834**	**0.1370**
Mars	**2251-06-04 22:33**	**G**	**2543375.27**	**2543375.44**	**2543375.60**	**0.1709**	**0.0169**
Mars	**2252-04-14 15:50**	**G**	**2543690.08**	**2543690.16**	**2543690.25**	**0.1806**	**0.1211**
Jupiter	**2255-04-09 13:40**	**G**	**2544779.89**	**2544780.07**	**2544780.25**	**0.0491**	**0.0008**
Earth	**2256-11-09 15:07**	**G**	**2545360.07**	**2545360.13**	**2545360.18**	**0.2689**	**0.2247**
Moon	**2256-11-09 15:35**	**G**	**2545360.09**	**2545360.15**	**2545360.22**	**0.2688**	**0.2092**	*
Mars	**2260-10-24 22:19**	**G**	**2546805.30**	**2546805.43**	**2546805.56**	**0.1702**	**0.1031**
Jupiter	**2260-12-12 15:21**	**G**	**2546854.03**	**2546854.14**	**2546854.26**	**0.0537**	**0.0246**
Jupiter	**2261-03-11 23:31**	**G**	**2546943.39**	**2546943.48**	**2546943.58**	**0.0536**	**0.0365**
Mars	**2261-09-05 01:11**	**G**	**2547120.44**	**2547120.55**	**2547120.66**	**0.1813**	**0.0606**
Saturn	**2263-05-09 04:19**	**G**	**2547731.57**	**2547731.68**	**2547731.79**	**0.0285**	**0.0161**
Saturn	**2263-08-05 17:02**	**G**	**2547820.07**	**2547820.21**	**2547820.34**	**0.0286**	**0.0035**
Saturn	**2263-11-02 05:31**	**G**	**2547908.60**	**2547908.73**	**2547908.86**	**0.0287**	**0.0091**
Saturn	**2264-01-29 17:45**	**G**	**2547997.16**	**2547997.24**	**2547997.33**	**0.0288**	**0.0216**
Moon	**2266-05-10 15:07**	**G**	**2548829.00**	**2548829.13**	**2548829.26**	**0.2646**	**0.1558**
Earth	**2266-05-10 16:33**	**G**	**2548829.06**	**2548829.19**	**2548829.32**	**0.2643**	**0.1476**	*

Jupiter	2267-01-26 12:14	G	2549089.85	2549090.01	2549090.18	0.0491	0.0155
Earth	2269-11-12 08:38	G	2550110.76	2550110.86	2550110.97	0.2690	0.0850
Moon	2269-11-12 09:07	G	2550110.78	2550110.88	2550110.99	0.2684	0.0828 *
Mars	2271-01-26 10:33	G	2550550.82	2550550.94	2550551.06	0.1820	0.0010
Jupiter	2272-09-30 18:57	G	2551164.20	2551164.29	2551164.37	0.0537	0.0400
Uranus	2272-10-01 14:24	G	2551165.06	2551165.10	2551165.16	0.0135	0.0125
Uranus	2272-12-28 17:45	G	2551253.16	2551253.24	2551253.32	0.0135	0.0107
Jupiter	2272-12-29 03:21	G	2551253.52	2551253.64	2551253.76	0.0536	0.0216
Uranus	2273-03-26 20:52	G	2551341.28	2551341.37	2551341.48	0.0135	0.0089
Uranus	2273-06-23 00:00	G	2551429.40	2551429.50	2551429.62	0.0135	0.0072
Uranus	2273-09-19 03:21	G	2551517.52	2551517.64	2551517.77	0.0135	0.0054
Uranus	2273-12-16 06:43	G	2551605.65	2551605.78	2551605.91	0.0135	0.0036
Uranus	2274-03-14 09:50	G	2551693.78	2551693.91	2551694.04	0.0135	0.0019
Uranus	2274-06-10 12:57	G	2551781.91	2551782.04	2551782.17	0.0135	0.0001
Uranus	2274-09-06 16:04	G	2551870.04	2551870.17	2551870.30	0.0135	0.0017
Uranus	2274-12-03 19:11	G	2551958.17	2551958.30	2551958.43	0.0135	0.0034
Uranus	2275-03-01 22:19	G	2552046.31	2552046.43	2552046.56	0.0136	0.0052
Uranus	2275-05-29 01:26	G	2552134.45	2552134.56	2552134.68	0.0136	0.0069
Uranus	2275-08-25 04:33	G	2552222.59	2552222.69	2552222.79	0.0136	0.0087
Uranus	2275-11-21 07:40	G	2552310.74	2552310.82	2552310.91	0.0136	0.0104
Uranus	2276-02-17 10:33	G	2552398.90	2552398.94	2552399.01	0.0136	0.0122
Saturn	2277-03-05 05:31	G	2552780.59	2552780.73	2552780.87	0.0275	0.0156
Saturn	2277-06-02 01:11	G	2552869.37	2552869.55	2552869.73	0.0274	0.0013
Saturn	2277-08-29 21:07	G	2552958.23	2552958.38	2552958.54	0.0273	0.0133
Jupiter	2278-11-14 11:16	G	2553399.84	2553399.97	2553400.11	0.0490	0.0311
Jupiter	2279-02-12 15:50	G	2553490.04	2553490.16	2553490.28	0.0492	0.0355
Pluto	2279-03-15 09:21	G	2553520.86	2553520.89	2553520.95	0.0073	0.0070
Venus	2279-05-05 22:04	G	2553572.31	2553572.42	2553572.52	0.3693	0.2555
Moon	2279-05-13 22:48	G	2553580.31	2553580.45	2553580.59	0.2647	0.1217
Earth	2279-05-13 23:45	G	2553580.35	2553580.49	2553580.62	0.2641	0.1384 *

Pluto	2279-06-11 11:16 G	2553608.88	2553608.97	2553609.09	0.0072	0.0058
Pluto	2279-09-07 13:26 G	2553696.93	2553697.06	2553697.20	0.0072	0.0046
Pluto	2279-12-04 15:07 G	2553784.99	2553785.13	2553785.30	0.0072	0.0034
Pluto	2280-03-01 17:16 G	2553873.05	2553873.22	2553873.40	0.0072	0.0022
Pluto	2280-05-28 19:11 G	2553961.13	2553961.30	2553961.48	0.0072	0.0010
Mars	2280-06-17 19:40 G	2553981.21	2553981.32	2553981.42	0.1827	0.0656
Pluto	2280-08-24 21:07 G	2554049.20	2554049.38	2554049.56	0.0072	0.0001
Pluto	2280-11-20 22:48 G	2554137.28	2554137.45	2554137.63	0.0072	0.0013
Pluto	2281-02-17 00:43 G	2554225.37	2554225.53	2554225.70	0.0072	0.0024
Pluto	2281-05-16 02:09 G	2554313.46	2554313.59	2554313.77	0.0071	0.0036
Mars	2281-07-14 00:00 G	2554372.36	2554372.50	2554372.65	0.1716	0.0842
Pluto	2281-08-12 04:04 G	2554401.55	2554401.67	2554401.82	0.0071	0.0046
Pluto	2281-11-08 05:45 G	2554489.66	2554489.74	2554489.87	0.0071	0.0058
Pluto	2282-02-04 07:40 G	2554577.79	2554577.82	2554577.89	0.0071	0.0068
Moon	2282-11-15 02:09 G	2554861.49	2554861.59	2554861.70	0.2685	0.0540
Earth	2282-11-15 02:24 G	2554861.49	2554861.60	2554861.71	0.2692	0.0548 *
Venus	2283-05-05 12:00 G	2555032.92	2555033.00	2555033.08	0.3677	0.2412
Jupiter	2284-10-17 06:28 G	2555563.64	2555563.77	2555563.90	0.0536	0.0055
Venus	2284-11-19 02:38 G	2555596.47	2555596.61	2555596.75	0.3692	0.0664
Neptune	2285-08-10 15:07 G	2555861.06	2555861.13	2555861.21	0.0088	0.0079
Neptune	2285-11-06 18:14 G	2555949.16	2555949.26	2555949.37	0.0088	0.0070
Neptune	2286-02-02 21:21 G	2556037.26	2556037.39	2556037.52	0.0088	0.0061
Neptune	2286-05-02 00:28 G	2556125.37	2556125.52	2556125.67	0.0088	0.0052
Neptune	2286-07-29 03:35 G	2556213.49	2556213.65	2556213.81	0.0088	0.0043
Neptune	2286-10-25 06:28 G	2556301.61	2556301.77	2556301.95	0.0088	0.0034
Neptune	2287-01-21 09:35 G	2556389.73	2556389.90	2556390.08	0.0088	0.0025
Neptune	2287-04-19 12:43 G	2556477.85	2556478.03	2556478.22	0.0088	0.0016
Neptune	2287-07-16 15:50 G	2556565.98	2556566.16	2556566.35	0.0088	0.0007
Neptune	2287-10-12 19:11 G	2556654.11	2556654.30	2556654.48	0.0088	0.0003
Neptune	2288-01-08 22:04 G	2556742.24	2556742.42	2556742.61	0.0088	0.0012

Neptune 2288-04-06 01:11 G 2556830.38 2556830.55 2556830.74 0.0088 0.0021

Neptune 2288-07-03 04:33 G 2556918.52 2556918.69 2556918.87 0.0088 0.0030

Neptune 2288-09-29 07:26 G 2557006.66 2557006.81 2557006.99 0.0088 0.0040

Venus 2288-11-18 04:48 G 2557056.59 2557056.70 2557056.80 0.3678 0.1001

Neptune 2288-12-26 10:48 G 2557094.80 2557094.95 2557095.11 0.0088 0.0049

Neptune 2289-03-24 13:55 G 2557182.95 2557183.08 2557183.23 0.0088 0.0058

Neptune 2289-06-20 17:02 G 2557271.11 2557271.21 2557271.35 0.0088 0.0068

Neptune 2289-09-16 20:24 G 2557359.27 2557359.35 2557359.45 0.0088 0.0077

Mars 2289-11-08 04:33 G 2557411.61 2557411.69 2557411.77 0.1835 0.1306

Neptune 2289-12-13 23:45 G 2557447.47 2557447.49 2557447.53 0.0088 0.0086

Jupiter 2290-09-02 10:19 G 2557709.89 2557709.93 2557709.98 0.0490 0.0470

Jupiter 2290-12-01 14:09 G 2557799.93 2557800.09 2557800.26 0.0491 0.0188

Mars 2290-12-03 23:16 G 2557802.30 2557802.47 2557802.63 0.1709 0.0069

Mars 2291-10-14 15:50 G 2558117.08 2558117.16 2558117.24 0.1806 0.1264

Saturn 2292-09-25 06:28 G 2558463.67 2558463.77 2558463.87 0.0286 0.0194

Saturn 2292-12-22 19:11 G 2558552.17 2558552.30 2558552.44 0.0286 0.0068

Saturn 2293-03-21 07:55 G 2558640.70 2558640.83 2558640.96 0.0287 0.0058

Saturn 2293-06-17 20:09 G 2558729.25 2558729.34 2558729.45 0.0288 0.0184

Venus 2294-06-03 21:21 G 2559080.28 2559080.39 2559080.49 0.3679 0.0391

Moon 2295-11-17 19:26 G 2559612.23 2559612.31 2559612.39 0.2689 0.1860

Earth 2295-11-17 20:09 G 2559612.26 2559612.34 2559612.41 0.2693 0.1930 *

Jupiter 2296-08-05 10:04 G 2559873.79 2559873.92 2559874.05 0.0537 0.0098

Jupiter 2296-11-02 17:45 G 2559963.21 2559963.24 2559963.29 0.0535 0.0505

Venus 2299-12-18 13:40 G 2561103.98 2561104.07 2561104.17 0.3680 0.1740

Mars 2300-04-25 22:48 G 2561232.31 2561232.45 2561232.58 0.1702 0.0949

Mars 2301-03-07 01:26 G 2561547.45 2561547.56 2561547.66 0.1813 0.0675

Jupiter 2302-09-20 11:45 G 2562109.81 2562109.99 2562110.17 0.0490 0.0013

Earth 2302-11-11 19:55 G 2562162.25 2562162.33 2562162.40 0.2689 0.1954

Moon 2302-11-11 20:24 G 2562162.28 2562162.35 2562162.43 0.2686 0.1923 *

Venus 2305-07-04 06:00 G 2563127.69 2563127.75 2563127.81 0.3681 0.3053

Saturn	2306-07-24 06:28	G	2563512.65	2563512.77	2563512.91	0.0275	0.0186
Saturn	2306-10-21 02:24	G	2563601.42	2563601.60	2563601.77	0.0274	0.0042
Saturn	2307-01-17 22:04	G	2563690.26	2563690.42	2563690.59	0.0274	0.0103
Saturn	2307-04-16 18:14	G	2563779.19	2563779.26	2563779.34	0.0273	0.0248
Jupiter	2308-05-25 13:40	G	2564183.96	2564184.07	2564184.19	0.0537	0.0249
Jupiter	2308-08-22 22:04	G	2564273.32	2564273.42	2564273.51	0.0536	0.0363
Mars	2310-07-28 10:33	G	2564977.82	2564977.94	2564978.06	0.1820	0.0051
Moon	2312-05-11 21:50	G	2565631.27	2565631.41	2565631.55	0.2647	0.1193
Earth	2312-05-11 23:16	G	2565631.32	2565631.47	2565631.61	0.2642	0.0927 *
Uranus	2313-04-26 14:52	G	2565981.04	2565981.12	2565981.20	0.0144	0.0129
Uranus	2313-07-23 22:33	G	2566069.32	2566069.44	2566069.59	0.0144	0.0100
Uranus	2313-10-20 06:28	G	2566157.62	2566157.77	2566157.95	0.0143	0.0071
Uranus	2314-01-16 14:38	G	2566245.94	2566246.11	2566246.30	0.0143	0.0041
Uranus	2314-04-14 22:48	G	2566334.26	2566334.45	2566334.64	0.0143	0.0011
Jupiter	2314-07-09 10:33	G	2566419.77	2566419.94	2566420.11	0.0490	0.0150
Uranus	2314-07-12 06:57	G	2566422.60	2566422.79	2566422.97	0.0143	0.0020
Uranus	2314-10-08 14:52	G	2566510.94	2566511.12	2566511.30	0.0143	0.0049
Uranus	2315-01-04 23:02	G	2566599.30	2566599.46	2566599.62	0.0143	0.0079
Uranus	2315-04-03 07:11	G	2566687.68	2566687.80	2566687.92	0.0143	0.0109
Uranus	2315-06-30 15:21	G	2566776.10	2566776.14	2566776.18	0.0143	0.0139
Earth	2315-11-14 13:26	G	2566912.96	2566913.06	2566913.17	0.2690	0.0567
Moon	2315-11-14 13:55	G	2566912.97	2566913.08	2566913.19	0.2684	0.0458 *
Mars	2319-12-18 19:40	G	2568408.21	2568408.32	2568408.43	0.1827	0.0588
Jupiter	2320-03-13 17:31	G	2568494.14	2568494.23	2568494.32	0.0538	0.0397
Jupiter	2320-06-11 02:09	G	2568583.47	2568583.59	2568583.71	0.0536	0.0221
Mars	2321-01-13 00:43	G	2568799.39	2568799.53	2568799.67	0.1716	0.0937
Saturn	2322-02-13 07:26	G	2569195.74	2569195.81	2569195.88	0.0285	0.0240
Saturn	2322-05-12 20:09	G	2569284.22	2569284.34	2569284.47	0.0285	0.0114
Saturn	2322-08-09 08:52	G	2569372.73	2569372.87	2569373.00	0.0286	0.0013
Saturn	2322-11-05 21:21	G	2569461.27	2569461.39	2569461.51	0.0287	0.0136

Saturn 2323-02-02 09:35 G 2569549.85 2569549.90 2569549.96 0.0288 0.0260

Moon 2325-05-15 05:31 G 2570382.63 2570382.73 2570382.84 0.2647 0.1953

Earth 2325-05-15 06:14 G 2570382.66 2570382.76 2570382.87 0.2641 0.1945 *

Jupiter 2326-04-27 09:21 G 2570729.76 2570729.89 2570730.03 0.0490 0.0310

Jupiter 2326-07-26 13:40 G 2570819.95 2570820.07 2570820.20 0.0491 0.0355

Moon 2328-11-16 06:57 G 2571663.68 2571663.79 2571663.89 0.2686 0.0747

Earth 2328-11-16 07:11 G 2571663.70 2571663.80 2571663.91 0.2692 0.0835 *

Mars 2329-05-10 04:33 G 2571838.61 2571838.69 2571838.78 0.1834 0.1240

Mars 2330-06-05 00:00 G 2572229.33 2572229.50 2572229.67 0.1709 0.0026

Mars 2331-04-15 15:50 G 2572544.08 2572544.16 2572544.24 0.1806 0.1329

Jupiter 2332-03-30 05:45 G 2572893.62 2572893.74 2572893.87 0.0536 0.0074

Venus 2334-05-27 17:02 G 2573682.17 2573682.21 2573682.25 0.3677 0.3375

Saturn 2335-12-11 04:19 G 2574244.61 2574244.68 2574244.77 0.0275 0.0242

Venus 2335-12-11 22:48 G 2574245.32 2574245.45 2574245.58 0.3692 0.1567

Saturn 2336-03-09 00:00 G 2574333.34 2574333.50 2574333.67 0.0275 0.0099

Saturn 2336-06-05 19:55 G 2574422.15 2574422.33 2574422.50 0.0274 0.0046

Saturn 2336-09-02 15:50 G 2574511.04 2574511.16 2574511.29 0.0273 0.0191

Jupiter 2338-02-13 08:38 G 2575039.81 2575039.86 2575039.92 0.0490 0.0464

Jupiter 2338-05-14 12:28 G 2575129.86 2575130.02 2575130.19 0.0491 0.0193

Mars 2339-10-25 23:31 G 2575659.34 2575659.48 2575659.62 0.1702 0.0854

Venus 2339-12-11 09:50 G 2575705.82 2575705.91 2575706.00 0.3678 0.1938

Mars 2340-09-05 01:11 G 2575974.45 2575974.55 2575974.66 0.1813 0.0727

Venus 2341-06-27 03:35 G 2576269.53 2576269.65 2576269.78 0.3691 0.1706

Moon 2341-11-19 00:14 G 2576414.45 2576414.51 2576414.58 0.2690 0.2122

Earth 2341-11-19 00:57 G 2576414.48 2576414.54 2576414.60 0.2693 0.2212 *

Jupiter 2344-01-17 09:07 G 2577203.75 2577203.88 2577204.00 0.0536 0.0091

Jupiter 2344-04-15 16:48 G 2577293.17 2577293.20 2577293.24 0.0535 0.0513

Venus 2345-06-26 02:24 G 2577729.50 2577729.60 2577729.71 0.3679 0.0552

Earth 2348-11-12 00:43 G 2578964.44 2578964.53 2578964.61 0.2689 0.1661

Moon 2348-11-12 01:11 G 2578964.46 2578964.55 2578964.64 0.2685 0.1512 *

Mars	2350-01-26 10:33 G	2579404.82	2579404.94	2579405.05	0.1820	0.0114
Jupiter	2350-03-02 11:02 G	2579439.79	2579439.96	2579440.14	0.0491	0.0030
Venus	2351-01-09 18:57 G	2579753.19	2579753.29	2579753.40	0.3680	0.0836
Saturn	2351-07-03 09:21 G	2579927.86	2579927.89	2579927.92	0.0285	0.0276
Saturn	2351-09-29 22:04 G	2580016.31	2580016.42	2580016.54	0.0286	0.0150
Saturn	2351-12-27 10:48 G	2580104.82	2580104.95	2580105.09	0.0286	0.0024
Saturn	2352-03-24 23:16 G	2580193.35	2580193.47	2580193.60	0.0287	0.0102
Saturn	2352-06-21 11:45 G	2580281.91	2580281.99	2580282.07	0.0288	0.0226
Jupiter	2355-11-05 12:28 G	2581513.90	2581514.02	2581514.14	0.0537	0.0244
Jupiter	2356-02-02 20:38 G	2581603.27	2581603.36	2581603.46	0.0535	0.0367
Venus	2356-07-25 11:16 G	2581776.89	2581776.97	2581777.06	0.3681	0.2169
Uranus	2356-10-22 21:50 G	2581866.36	2581866.41	2581866.49	0.0135	0.0119
Uranus	2357-01-19 01:11 G	2581954.47	2581954.55	2581954.65	0.0135	0.0101
Uranus	2357-04-17 04:33 G	2582042.59	2582042.69	2582042.80	0.0135	0.0083
Uranus	2357-07-14 07:40 G	2582130.71	2582130.82	2582130.94	0.0135	0.0066
Uranus	2357-10-10 11:02 G	2582218.83	2582218.96	2582219.08	0.0135	0.0048
Uranus	2358-01-06 14:09 G	2582306.96	2582307.09	2582307.22	0.0135	0.0030
Uranus	2358-04-04 17:16 G	2582395.09	2582395.22	2582395.36	0.0135	0.0013
Moon	2358-05-13 04:33 G	2582433.54	2582433.69	2582433.84	0.2647	0.0424
Earth	2358-05-13 05:45 G	2582433.59	2582433.74	2582433.90	0.2642	0.0372 *
Uranus	2358-07-01 20:24 G	2582483.22	2582483.35	2582483.49	0.0135	0.0007
Uranus	2358-09-27 23:45 G	2582571.35	2582571.49	2582571.62	0.0135	0.0023
Uranus	2358-12-25 02:38 G	2582659.49	2582659.61	2582659.74	0.0135	0.0040
Uranus	2359-03-23 05:45 G	2582747.63	2582747.74	2582747.87	0.0135	0.0058
Mars	2359-06-18 19:40 G	2582835.21	2582835.32	2582835.43	0.1827	0.0520
Uranus	2359-06-19 08:52 G	2582835.77	2582835.87	2582835.99	0.0136	0.0075
Uranus	2359-09-15 12:00 G	2582923.91	2582924.00	2582924.10	0.0136	0.0092
Uranus	2359-12-12 15:07 G	2583012.06	2583012.13	2583012.21	0.0136	0.0110
Uranus	2360-03-09 18:14 G	2583100.22	2583100.26	2583100.31	0.0136	0.0127
Mars	2360-07-14 01:26 G	2583226.43	2583226.56	2583226.69	0.1716	0.1028

Moon 2361-11-14 18:28 G 2583715.16 2583715.27 2583715.38 0.2684 0.0305

Earth 2361-11-14 18:28 G 2583715.16 2583715.27 2583715.37 0.2691 0.0281 *

Jupiter 2361-12-19 09:07 G 2583749.71 2583749.88 2583750.05 0.0490 0.0144

Venus 2362-02-08 03:35 G 2583800.62 2583800.65 2583800.68 0.3682 0.3479

Saturn 2365-04-29 05:16 G 2584976.71 2584976.72 2584976.74 0.0276 0.0274

Saturn 2365-07-27 00:43 G 2585065.38 2585065.53 2585065.69 0.0275 0.0132

Saturn 2365-10-23 20:38 G 2585154.18 2585154.36 2585154.53 0.0274 0.0014

Saturn 2366-01-20 16:33 G 2585243.04 2585243.19 2585243.33 0.0274 0.0158

Neptune 2367-05-27 14:38 G 2585735.07 2585735.11 2585735.14 0.0089 0.0086

Neptune 2367-08-23 15:50 G 2585823.11 2585823.16 2585823.24 0.0089 0.0079

Jupiter 2367-08-24 16:04 G 2585824.08 2585824.17 2585824.25 0.0538 0.0398

Neptune 2367-11-19 17:31 G 2585911.16 2585911.23 2585911.32 0.0089 0.0071

Jupiter 2367-11-22 00:43 G 2585913.41 2585913.53 2585913.64 0.0537 0.0222

Neptune 2368-02-15 19:11 G 2585999.21 2585999.30 2585999.40 0.0089 0.0064

Neptune 2368-05-13 20:38 G 2586087.26 2586087.36 2586087.47 0.0089 0.0057

Neptune 2368-08-09 22:04 G 2586175.32 2586175.42 2586175.55 0.0089 0.0050

Neptune 2368-11-05 23:31 G 2586263.37 2586263.48 2586263.62 0.0089 0.0043

Mars 2368-11-08 04:33 G 2586265.60 2586265.69 2586265.78 0.1834 0.1180

Neptune 2369-02-02 01:11 G 2586351.43 2586351.55 2586351.68 0.0089 0.0035

Neptune 2369-05-01 02:52 G 2586439.49 2586439.62 2586439.75 0.0089 0.0027

Neptune 2369-07-28 04:19 G 2586527.55 2586527.68 2586527.82 0.0089 0.0020

Neptune 2369-10-24 05:45 G 2586615.61 2586615.74 2586615.88 0.0089 0.0013

Mars 2369-12-04 00:28 G 2586656.35 2586656.52 2586656.69 0.1709 0.0110

Neptune 2370-01-20 07:26 G 2586703.67 2586703.81 2586703.95 0.0089 0.0006

Neptune 2370-04-18 08:52 G 2586791.73 2586791.87 2586792.01 0.0089 0.0002

Neptune 2370-07-15 10:19 G 2586879.80 2586879.93 2586880.07 0.0089 0.0009

Neptune 2370-10-11 11:45 G 2586967.86 2586967.99 2586968.13 0.0089 0.0016

Mars 2370-10-14 15:50 G 2586971.09 2586971.16 2586971.23 0.1806 0.1389

Neptune 2371-01-07 13:11 G 2587055.92 2587056.05 2587056.19 0.0089 0.0023

Neptune 2371-04-05 14:38 G 2587143.99 2587144.11 2587144.24 0.0089 0.0030

Moon 2371-05-16 12:43 G 2587184.97 2587185.03 2587185.10 0.2647 0.2396

Earth 2371-05-16 12:57 G 2587185.00 2587185.04 2587185.09 0.2640 0.2512 *

Neptune 2371-07-02 16:04 G 2587232.05 2587232.17 2587232.30 0.0089 0.0038

Neptune 2371-09-28 17:31 G 2587320.12 2587320.23 2587320.36 0.0089 0.0045

Neptune 2371-12-25 18:57 G 2587408.19 2587408.29 2587408.41 0.0089 0.0052

Neptune 2372-03-22 20:24 G 2587496.26 2587496.35 2587496.46 0.0089 0.0059

Neptune 2372-06-18 21:50 G 2587584.33 2587584.41 2587584.51 0.0089 0.0066

Neptune 2372-09-14 23:16 G 2587672.40 2587672.47 2587672.56 0.0089 0.0073

Neptune 2372-12-12 00:43 G 2587760.48 2587760.53 2587760.60 0.0089 0.0080

Neptune 2373-03-10 02:09 G 2587848.57 2587848.59 2587848.63 0.0089 0.0087

Jupiter 2373-10-07 08:09 G 2588059.70 2588059.84 2588059.98 0.0490 0.0301

Jupiter 2374-01-05 12:14 G 2588149.89 2588150.01 2588150.14 0.0491 0.0362

Moon 2374-11-17 11:45 G 2588465.89 2588465.99 2588466.09 0.2686 0.1116

Earth 2374-11-17 12:00 G 2588465.90 2588466.00 2588466.10 0.2692 0.1123 *

Mars 2379-04-26 00:14 G 2590086.37 2590086.51 2590086.66 0.1703 0.0758

Jupiter 2379-09-10 04:48 G 2590223.57 2590223.70 2590223.82 0.0537 0.0080

Mars 2380-03-06 01:11 G 2590401.45 2590401.55 2590401.66 0.1813 0.0792

Saturn 2381-02-15 23:02 G 2590748.36 2590748.46 2590748.56 0.0285 0.0196

Saturn 2381-05-15 11:45 G 2590836.86 2590836.99 2590837.13 0.0285 0.0070

Saturn 2381-08-12 00:28 G 2590925.38 2590925.52 2590925.65 0.0286 0.0055

Saturn 2381-11-08 12:43 G 2591013.93 2591014.03 2591014.14 0.0287 0.0179

Moon 2381-11-10 12:28 G 2591016.00 2591016.02 2591016.03 0.2688 0.2656

Jupiter 2385-07-26 07:11 G 2592369.74 2592369.80 2592369.86 0.0490 0.0459

Jupiter 2385-10-24 10:48 G 2592459.79 2592459.95 2592460.12 0.0491 0.0197

Moon 2387-11-20 05:02 G 2593216.66 2593216.71 2593216.76 0.2693 0.2367

Earth 2387-11-20 05:31 G 2593216.70 2593216.73 2593216.77 0.2693 0.2494 *

Mars 2388-09-15 00:14 G 2593516.46 2593516.51 2593516.56 0.1696 0.1609

Mars 2389-07-27 10:33 G 2593831.83 2593831.94 2593832.06 0.1820 0.0177

Venus 2391-01-01 14:52 G 2594355.05 2594355.12 2594355.18 0.3677 0.2897

Earth 2391-05-11 05:31 G 2594484.72 2594484.73 2594484.75 0.2644 0.2628

Jupiter	2391-06-29 08:24	G	2594533.73	2594533.85	2594533.98	0.0537	0.0073
Jupiter	2391-09-26 16:19	G	2594623.17	2594623.18	2594623.19	0.0535	0.0532
Venus	2392-07-17 23:45	G	2594918.35	2594918.49	2594918.63	0.3692	0.0575
Earth	2394-11-13 05:31	G	2595766.64	2595766.73	2595766.82	0.2689	0.1370
Moon	2394-11-13 06:00	G	2595766.66	2595766.75	2595766.85	0.2685	0.1339 *
Saturn	2394-12-13 21:50	G	2595797.29	2595797.41	2595797.54	0.0275	0.0191
Saturn	2395-03-12 17:31	G	2595886.06	2595886.23	2595886.41	0.0275	0.0048
Saturn	2395-06-09 13:26	G	2595974.90	2595975.06	2595975.23	0.0274	0.0097
Saturn	2395-09-06 09:35	G	2596063.83	2596063.90	2596063.99	0.0273	0.0243
Venus	2396-07-17 07:26	G	2596378.72	2596378.81	2596378.91	0.3678	0.1488
Uranus	2397-05-16 22:48	G	2596682.35	2596682.45	2596682.55	0.0144	0.0120
Jupiter	2397-08-12 09:50	G	2596769.73	2596769.91	2596770.08	0.0491	0.0038
Uranus	2397-08-13 06:28	G	2596770.63	2596770.77	2596770.92	0.0144	0.0091
Uranus	2397-11-09 14:24	G	2596858.94	2596859.10	2596859.28	0.0143	0.0062
Venus	2398-02-01 04:33	G	2596942.60	2596942.69	2596942.79	0.3691	0.2730
Uranus	2398-02-05 22:33	G	2596947.26	2596947.44	2596947.63	0.0143	0.0031
Uranus	2398-05-05 06:43	G	2597035.59	2597035.78	2597035.97	0.0143	0.0001
Uranus	2398-08-01 14:38	G	2597123.93	2597124.11	2597124.30	0.0143	0.0029
Uranus	2398-10-28 22:48	G	2597212.28	2597212.45	2597212.63	0.0143	0.0058
Mars	2398-12-17 19:40	G	2597262.21	2597262.32	2597262.43	0.1827	0.0465
Uranus	2399-01-25 06:43	G	2597300.64	2597300.78	2597300.94	0.0143	0.0089
Uranus	2399-04-23 14:52	G	2597389.03	2597389.12	2597389.24	0.0143	0.0119
Mars	2400-01-13 02:09	G	2597653.46	2597653.59	2597653.71	0.1716	0.1123
Venus	2402-01-31 00:14	G	2598402.40	2598402.51	2598402.62	0.3679	0.0094
Jupiter	2403-04-17 11:45	G	2598843.87	2598843.99	2598844.10	0.0537	0.0232
Jupiter	2403-07-15 19:55	G	2598933.24	2598933.33	2598933.42	0.0535	0.0378
Moon	2404-05-13 11:16	G	2599235.81	2599235.97	2599236.13	0.2647	0.0047
Earth	2404-05-13 12:28	G	2599235.86	2599236.02	2599236.18	0.2642	0.0194 *
Venus	2407-08-16 16:33	G	2600426.09	2600426.19	2600426.29	0.3680	0.1278
Moon	2407-11-15 23:16	G	2600517.36	2600517.47	2600517.58	0.2684	0.0101

Earth	2407-11-15 23:16	G	2600517.36	2600517.47	2600517.58	0.2691	0.0065 *
Mars	2408-05-09 04:33	G	2600692.60	2600692.69	2600692.79	0.1834	0.1113
Jupiter	2409-05-31 08:38	G	2601079.68	2601079.86	2601080.03	0.0491	0.0125
Mars	2409-06-04 01:26	G	2601083.39	2601083.56	2601083.72	0.1709	0.0214
Mars	2410-04-14 15:50	G	2601398.09	2601398.16	2601398.23	0.1806	0.1447
Saturn	2410-07-06 00:28	G	2601480.45	2601480.52	2601480.60	0.0285	0.0236
Saturn	2410-10-02 13:26	G	2601568.93	2601569.06	2601569.18	0.0286	0.0110
Saturn	2410-12-30 01:55	G	2601657.45	2601657.58	2601657.72	0.0286	0.0016
Saturn	2411-03-28 14:24	G	2601745.98	2601746.10	2601746.22	0.0287	0.0140
Saturn	2411-06-25 02:38	G	2601834.57	2601834.61	2601834.67	0.0288	0.0264
Venus	2413-03-01 09:07	G	2602449.80	2602449.88	2602449.95	0.3681	0.2602
Jupiter	2415-02-03 15:07	G	2603154.04	2603154.13	2603154.22	0.0537	0.0388
Jupiter	2415-05-03 23:31	G	2603243.37	2603243.48	2603243.60	0.0536	0.0229
Mars	2417-09-29 13:26	G	2604123.03	2604123.06	2604123.08	0.1841	0.1782
Mars	2418-10-25 00:43	G	2604513.38	2604513.53	2604513.68	0.1702	0.0679
Mars	2419-09-05 01:26	G	2604828.45	2604828.56	2604828.66	0.1813	0.0857
Moon	2420-11-17 16:33	G	2605268.09	2605268.19	2605268.28	0.2686	0.1297
Earth	2420-11-17 16:48	G	2605268.11	2605268.20	2605268.29	0.2692	0.1412 *
Jupiter	2421-03-19 06:57	G	2605389.65	2605389.79	2605389.93	0.0490	0.0292
Jupiter	2421-06-17 11:02	G	2605479.84	2605479.96	2605480.08	0.0491	0.0371
Saturn	2424-05-01 22:33	G	2606529.34	2606529.44	2606529.54	0.0276	0.0226
Saturn	2424-07-29 18:14	G	2606618.09	2606618.26	2606618.43	0.0275	0.0082
Saturn	2424-10-26 14:09	G	2606706.91	2606707.09	2606707.26	0.0274	0.0063
Saturn	2425-01-23 10:04	G	2606795.81	2606795.92	2606796.04	0.0274	0.0208
Jupiter	2427-02-20 03:21	G	2607553.51	2607553.64	2607553.77	0.0537	0.0080
Earth	2427-11-11 16:33	G	2607818.15	2607818.19	2607818.23	0.2688	0.2488
Moon	2427-11-11 17:16	G	2607818.17	2607818.22	2607818.27	0.2686	0.2385 *
Mars	2428-03-16 00:57	G	2607943.47	2607943.54	2607943.61	0.1696	0.1521
Mars	2429-01-25 10:33	G	2608258.83	2608258.94	2608259.06	0.1820	0.0241
Jupiter	2433-01-05 06:00	G	2609699.69	2609699.75	2609699.82	0.0489	0.0447

Jupiter 2433-04-05 09:35 G 2609789.74 2609789.90 2609790.07 0.0491 0.0208

Moon 2437-05-11 10:48 G 2611286.87 2611286.95 2611287.03 0.2647 0.2254

Earth 2437-05-11 12:14 G 2611286.92 2611287.01 2611287.11 0.2644 0.2073 *

Mars 2438-06-17 19:40 G 2611689.21 2611689.32 2611689.43 0.1827 0.0397

Jupiter 2438-12-09 07:11 G 2611863.68 2611863.80 2611863.93 0.0537 0.0067

Mars 2439-07-14 02:52 G 2612080.51 2612080.62 2612080.74 0.1716 0.1226

Saturn 2439-11-23 01:40 G 2612212.55 2612212.57 2612212.59 0.0284 0.0279

Saturn 2440-02-19 14:24 G 2612300.99 2612301.10 2612301.22 0.0284 0.0154

Saturn 2440-05-18 03:07 G 2612389.49 2612389.63 2612389.77 0.0285 0.0030

Saturn 2440-08-14 15:35 G 2612478.02 2612478.15 2612478.28 0.0286 0.0095

Uranus 2440-08-16 02:38 G 2612479.58 2612479.61 2612479.65 0.0134 0.0129

Saturn 2440-11-11 03:50 G 2612566.58 2612566.66 2612566.75 0.0287 0.0218

Uranus 2440-11-12 05:45 G 2612567.67 2612567.74 2612567.82 0.0135 0.0111

Earth 2440-11-13 10:19 G 2612568.83 2612568.93 2612569.03 0.2689 0.1081

Moon 2440-11-13 10:48 G 2612568.85 2612568.95 2612569.05 0.2685 0.0962 *

Uranus 2441-02-08 09:07 G 2612655.79 2612655.88 2612655.98 0.0135 0.0094

Uranus 2441-05-07 12:28 G 2612743.91 2612744.02 2612744.13 0.0135 0.0076

Uranus 2441-08-03 15:21 G 2612832.03 2612832.14 2612832.27 0.0135 0.0059

Uranus 2441-10-30 18:43 G 2612920.15 2612920.28 2612920.41 0.0135 0.0041

Pluto 2441-11-14 06:00 G 2612934.71 2612934.75 2612934.82 0.0071 0.0066

Uranus 2442-01-26 21:50 G 2613008.28 2613008.41 2613008.54 0.0135 0.0024

Pluto 2442-02-10 06:57 G 2613022.72 2613022.79 2613022.88 0.0071 0.0057

Uranus 2442-04-25 00:57 G 2613096.41 2613096.54 2613096.68 0.0135 0.0007

Pluto 2442-05-09 07:55 G 2613110.73 2613110.83 2613110.94 0.0071 0.0048

Uranus 2442-07-22 04:19 G 2613184.54 2613184.68 2613184.81 0.0135 0.0012

Pluto 2442-08-05 08:52 G 2613198.75 2613198.87 2613198.99 0.0072 0.0039

Uranus 2442-10-18 07:26 G 2613272.68 2613272.81 2613272.94 0.0135 0.0029

Pluto 2442-11-01 09:50 G 2613286.78 2613286.91 2613287.04 0.0072 0.0030

Uranus 2443-01-14 10:33 G 2613360.81 2613360.94 2613361.06 0.0135 0.0046

Pluto 2443-01-28 10:33 G 2613374.81 2613374.94 2613375.08 0.0072 0.0021

Uranus 2443-04-12 13:40 G 2613448.95 2613449.07 2613449.18 0.0135 0.0064

Pluto 2443-04-26 11:31 G 2613462.84 2613462.98 2613463.12 0.0072 0.0012

Uranus 2443-07-09 16:33 G 2613537.09 2613537.19 2613537.30 0.0136 0.0082

Pluto 2443-07-23 12:28 G 2613550.88 2613551.02 2613551.16 0.0072 0.0003

Venus 2443-08-08 20:09 G 2613567.25 2613567.34 2613567.44 0.3693 0.2737

Uranus 2443-10-05 19:40 G 2613625.24 2613625.32 2613625.42 0.0136 0.0099

Pluto 2443-10-19 13:26 G 2613638.92 2613639.06 2613639.20 0.0072 0.0006

Uranus 2444-01-01 22:48 G 2613713.39 2613713.45 2613713.52 0.0136 0.0116

Pluto 2444-01-15 14:09 G 2613726.96 2613727.09 2613727.23 0.0072 0.0016

Uranus 2444-03-30 02:09 G 2613801.56 2613801.59 2613801.61 0.0136 0.0133

Pluto 2444-04-12 15:07 G 2613815.00 2613815.13 2613815.27 0.0072 0.0025

Pluto 2444-07-09 15:50 G 2613903.05 2613903.16 2613903.30 0.0073 0.0035

Pluto 2444-10-05 17:02 G 2613991.10 2613991.21 2613991.33 0.0073 0.0044

Pluto 2445-01-01 17:45 G 2614079.16 2614079.24 2614079.35 0.0073 0.0054

Jupiter 2445-01-22 08:24 G 2614099.67 2614099.85 2614100.02 0.0490 0.0045

Pluto 2445-03-30 18:43 G 2614167.22 2614167.28 2614167.36 0.0073 0.0063

Pluto 2445-06-26 19:55 G 2614255.33 2614255.33 2614255.34 0.0073 0.0073

Venus 2447-08-08 12:28 G 2615027.94 2615028.02 2615028.10 0.3677 0.2433

Mars 2447-11-08 04:33 G 2615119.60 2615119.69 2615119.79 0.1834 0.1052

Mars 2448-12-03 01:55 G 2615510.42 2615510.58 2615510.75 0.1709 0.0305

Venus 2449-02-22 00:43 G 2615591.38 2615591.53 2615591.67 0.3692 0.0427

Mars 2449-10-13 15:50 G 2615825.10 2615825.16 2615825.22 0.1806 0.1508

Neptune 2450-02-09 09:50 G 2615943.89 2615943.91 2615943.93 0.0088 0.0087

Neptune 2450-05-08 12:14 G 2616031.96 2616032.01 2616032.12 0.0088 0.0079

Moon 2450-05-14 18:14 G 2616038.11 2616038.26 2616038.41 0.2647 0.0703

Earth 2450-05-14 19:11 G 2616038.15 2616038.30 2616038.45 0.2642 0.0760 *

Neptune 2450-08-04 15:21 G 2616120.05 2616120.14 2616120.27 0.0088 0.0070

Jupiter 2450-09-27 11:02 G 2616173.84 2616173.96 2616174.08 0.0537 0.0214

Neptune 2450-10-31 18:28 G 2616208.16 2616208.27 2616208.42 0.0088 0.0061

Jupiter 2450-12-25 19:11 G 2616263.22 2616263.30 2616263.39 0.0536 0.0397

Neptune 2451-01-27 21:35 G 2616296.27 2616296.40 2616296.56 0.0088 0.0052

Neptune 2451-04-26 00:43 G 2616384.38 2616384.53 2616384.70 0.0088 0.0043

Neptune 2451-07-23 03:50 G 2616472.50 2616472.66 2616472.84 0.0088 0.0034

Neptune 2451-10-19 06:57 G 2616560.62 2616560.79 2616560.98 0.0088 0.0025

Neptune 2452-01-15 10:04 G 2616648.75 2616648.92 2616649.11 0.0088 0.0016

Neptune 2452-04-12 13:26 G 2616736.87 2616737.06 2616737.24 0.0088 0.0006

Neptune 2452-07-09 16:33 G 2616825.00 2616825.19 2616825.37 0.0088 0.0003

Neptune 2452-10-05 19:40 G 2616913.14 2616913.32 2616913.50 0.0088 0.0012

Neptune 2453-01-01 22:33 G 2617001.27 2617001.44 2617001.63 0.0088 0.0022

Venus 2453-02-21 05:16 G 2617051.62 2617051.72 2617051.83 0.3678 0.1017

Neptune 2453-03-31 01:40 G 2617089.41 2617089.57 2617089.76 0.0088 0.0031

Neptune 2453-06-27 05:02 G 2617177.55 2617177.71 2617177.88 0.0088 0.0040

Neptune 2453-09-23 08:09 G 2617265.69 2617265.84 2617266.00 0.0088 0.0049

Moon 2453-11-16 04:04 G 2617319.56 2617319.67 2617319.78 0.2684 0.0268

Earth 2453-11-16 04:04 G 2617319.56 2617319.67 2617319.78 0.2691 0.0317 *

Saturn 2453-12-16 15:07 G 2617349.98 2617350.13 2617350.27 0.0275 0.0145

Neptune 2453-12-20 11:02 G 2617353.84 2617353.96 2617354.12 0.0088 0.0059

Saturn 2454-03-15 10:48 G 2617438.77 2617438.95 2617439.13 0.0275 0.0002

Neptune 2454-03-18 14:24 G 2617442.00 2617442.10 2617442.23 0.0088 0.0068

Saturn 2454-06-12 06:43 G 2617527.63 2617527.78 2617527.93 0.0274 0.0145

Neptune 2454-06-14 18:00 G 2617530.16 2617530.25 2617530.34 0.0088 0.0077

Neptune 2454-09-10 20:38 G 2617618.36 2617618.36 2617618.41 0.0088 0.0087

Jupiter 2456-11-10 07:11 G 2618409.63 2618409.80 2618409.98 0.0490 0.0115

Mars 2457-03-30 13:26 G 2618550.02 2618550.06 2618550.09 0.1841 0.1722

Mars 2458-04-25 01:40 G 2618940.41 2618940.57 2618940.72 0.1703 0.0578

Venus 2458-09-06 21:50 G 2619075.31 2619075.41 2619075.52 0.3679 0.0383

Mars 2459-03-06 01:11 G 2619255.46 2619255.55 2619255.65 0.1813 0.0916

Jupiter 2462-07-16 14:09 G 2620484.00 2620484.09 2620484.19 0.0537 0.0374

Jupiter 2462-10-13 22:48 G 2620573.33 2620573.45 2620573.56 0.0536 0.0242

Venus 2464-03-22 14:24 G 2621099.01 2621099.10 2621099.19 0.3680 0.1711

Moon	2466-11-18 21:07	G	2622070.30	2622070.38	2622070.47	0.2688	0.1678
Earth	2466-11-18 21:35	G	2622070.32	2622070.40	2622070.49	0.2692	0.1696 *
Mars	2467-09-15 01:26	G	2622370.48	2622370.56	2622370.65	0.1696	0.1434
Mars	2468-07-26 10:33	G	2622685.82	2622685.94	2622686.05	0.1820	0.0298
Jupiter	2468-08-29 06:14	G	2622719.62	2622719.76	2622719.91	0.0490	0.0274
Jupiter	2468-11-27 10:33	G	2622809.83	2622809.94	2622810.05	0.0491	0.0392
Saturn	2469-07-08 15:50	G	2623033.06	2623033.16	2623033.26	0.0285	0.0195
Saturn	2469-10-05 04:33	G	2623121.56	2623121.69	2623121.82	0.0286	0.0070
Venus	2469-10-06 06:43	G	2623122.72	2623122.78	2623122.84	0.3681	0.3028
Saturn	2470-01-01 17:02	G	2623210.08	2623210.21	2623210.35	0.0286	0.0054
Saturn	2470-03-31 05:31	G	2623298.63	2623298.73	2623298.84	0.0287	0.0178
Earth	2473-11-11 21:21	G	2624620.33	2624620.39	2624620.45	0.2688	0.2196
Moon	2473-11-11 22:04	G	2624620.35	2624620.42	2624620.49	0.2686	0.2105 *
Jupiter	2474-05-04 17:31	G	2624794.22	2624794.23	2624794.24	0.0538	0.0532
Jupiter	2474-08-02 02:24	G	2624883.47	2624883.60	2624883.73	0.0536	0.0091
Mars	2477-12-16 19:40	G	2626116.21	2626116.32	2626116.44	0.1827	0.0337
Mars	2479-01-12 03:21	G	2626507.54	2626507.64	2626507.75	0.1716	0.1309
Jupiter	2480-06-17 04:48	G	2627029.63	2627029.70	2627029.79	0.0489	0.0436
Jupiter	2480-09-15 08:24	G	2627119.70	2627119.85	2627120.02	0.0491	0.0220
Uranus	2481-03-09 22:19	G	2627295.41	2627295.43	2627295.48	0.0144	0.0141
Uranus	2481-06-06 06:14	G	2627383.66	2627383.76	2627383.89	0.0144	0.0112
Uranus	2481-09-02 14:24	G	2627471.95	2627472.10	2627472.26	0.0144	0.0082
Uranus	2481-11-29 22:19	G	2627560.26	2627560.43	2627560.62	0.0144	0.0053
Uranus	2482-02-26 06:28	G	2627648.59	2627648.77	2627648.96	0.0143	0.0022
Uranus	2482-05-25 14:38	G	2627736.92	2627737.11	2627737.30	0.0143	0.0008
Uranus	2482-08-21 22:33	G	2627825.26	2627825.44	2627825.63	0.0143	0.0038
Uranus	2482-11-18 06:43	G	2627913.61	2627913.78	2627913.95	0.0143	0.0068
Uranus	2483-02-14 14:52	G	2628001.98	2628002.12	2628002.26	0.0143	0.0098
Saturn	2483-05-05 15:07	G	2628082.01	2628082.13	2628082.27	0.0276	0.0182
Moon	2483-05-12 17:16	G	2628089.10	2628089.22	2628089.34	0.2647	0.1763

Earth	2483-05-12 18:57 G	2628089.16	2628089.29	2628089.41	0.2643	0.1529 *
Uranus	2483-05-13 22:33 G	2628090.38	2628090.44	2628090.54	0.0143	0.0128
Saturn	2483-08-02 11:02 G	2628170.78	2628170.96	2628171.13	0.0275	0.0037
Saturn	2483-10-30 06:57 G	2628259.63	2628259.79	2628259.95	0.0274	0.0108
Saturn	2484-01-27 02:52 G	2628348.57	2628348.62	2628348.70	0.0274	0.0255
Jupiter	2486-05-21 06:00 G	2629193.62	2629193.75	2629193.88	0.0538	0.0064
Earth	2486-11-14 15:07 G	2629371.03	2629371.13	2629371.24	0.2689	0.0792
Moon	2486-11-14 15:35 G	2629371.04	2629371.15	2629371.25	0.2684	0.0760 *
Mars	2487-05-09 04:33 G	2629546.60	2629546.69	2629546.79	0.1834	0.0987
Mars	2488-06-03 02:38 G	2629937.45	2629937.61	2629937.77	0.1710	0.0395
Mars	2489-04-13 15:50 G	2630252.11	2630252.16	2630252.22	0.1805	0.1573
Jupiter	2492-07-04 07:26 G	2631429.63	2631429.81	2631429.99	0.0490	0.0058
Moon	2496-05-15 01:11 G	2632840.41	2632840.55	2632840.69	0.2648	0.1226
Earth	2496-05-15 01:55 G	2632840.44	2632840.58	2632840.71	0.2642	0.1324 *
Mars	2496-09-28 13:26 G	2632977.01	2632977.06	2632977.11	0.1841	0.1655
Mars	2497-10-24 02:09 G	2633367.44	2633367.59	2633367.75	0.1703	0.0490
Jupiter	2498-03-09 09:50 G	2633503.79	2633503.91	2633504.03	0.0538	0.0208
Jupiter	2498-06-06 18:14 G	2633593.17	2633593.26	2633593.34	0.0536	0.0404
Venus	2498-08-29 17:31 G	2633677.19	2633677.23	2633677.27	0.3677	0.3388
Mars	2498-09-04 01:11 G	2633682.45	2633682.55	2633682.65	0.1813	0.0972
Saturn	2498-11-25 17:02 G	2633765.14	2633765.21	2633765.29	0.0284	0.0238
Saturn	2499-02-22 05:45 G	2633853.62	2633853.74	2633853.87	0.0284	0.0114
Saturn	2499-05-21 18:28 G	2633942.13	2633942.27	2633942.40	0.0285	0.0013
Saturn	2499-08-18 06:43 G	2634030.66	2634030.78	2634030.90	0.0286	0.0134
Saturn	2499-11-14 18:57 G	2634119.24	2634119.29	2634119.35	0.0287	0.0257
Moon	2499-11-17 08:38 G	2634121.76	2634121.86	2634121.97	0.2684	0.0634
Earth	2499-11-17 08:52 G	2634121.76	2634121.87	2634121.97	0.2691	0.0601 *
Venus	2500-03-15 21:07 G	2634240.25	2634240.38	2634240.50	0.3692	0.1778
Venus	2504-03-15 10:19 G	2635700.84	2635700.93	2635701.02	0.3678	0.1960
Jupiter	2504-04-23 06:00 G	2635739.58	2635739.75	2635739.93	0.0490	0.0105

Venus 2505-09-30 01:40 G 2636264.44 2636264.57 2636264.70 0.3691 0.1444

Mars 2507-03-17 02:09 G 2636797.49 2636797.59 2636797.69 0.1696 0.1344

Mars 2508-01-26 10:33 G 2637112.83 2637112.94 2637113.06 0.1820 0.0366

Venus 2509-09-29 03:07 G 2637724.52 2637724.63 2637724.73 0.3679 0.0556

Jupiter 2509-12-27 13:40 G 2637813.97 2637814.07 2637814.16 0.0538 0.0358

Jupiter 2510-03-26 22:19 G 2637903.31 2637903.43 2637903.54 0.0536 0.0261

Saturn 2512-09-22 12:00 G 2638813.93 2638814.00 2638814.09 0.0276 0.0244

Moon 2512-11-20 01:55 G 2638872.50 2638872.58 2638872.66 0.2689 0.1834

Earth 2512-11-20 02:24 G 2638872.53 2638872.60 2638872.67 0.2692 0.1981 *

Saturn 2512-12-20 07:40 G 2638902.66 2638902.82 2638902.99 0.0275 0.0100

Saturn 2513-03-19 03:35 G 2638991.47 2638991.65 2638991.82 0.0275 0.0045

Saturn 2513-06-15 23:31 G 2639080.36 2639080.48 2639080.62 0.0274 0.0191

Venus 2515-04-14 19:40 G 2639748.21 2639748.32 2639748.42 0.3679 0.0816

Jupiter 2516-02-10 05:02 G 2640049.57 2640049.71 2640049.87 0.0490 0.0262

Jupiter 2516-05-10 09:21 G 2640139.79 2640139.89 2640139.99 0.0491 0.0403

Mars 2517-06-17 19:40 G 2640543.21 2640543.32 2640543.44 0.1827 0.0273

Mars 2518-07-14 04:19 G 2640934.59 2640934.68 2640934.78 0.1717 0.1415

Earth 2519-11-14 02:09 G 2641422.52 2641422.59 2641422.67 0.2688 0.1904

Moon 2519-11-14 02:52 G 2641422.54 2641422.62 2641422.70 0.2686 0.1774 *

Venus 2520-10-28 12:00 G 2641771.92 2641772.00 2641772.09 0.3680 0.2149

Jupiter 2521-10-15 16:48 G 2642124.17 2642124.20 2642124.23 0.0538 0.0518

Jupiter 2522-01-13 01:40 G 2642213.44 2642213.57 2642213.70 0.0536 0.0105

Uranus 2524-09-06 10:19 G 2643180.88 2643180.93 2643180.99 0.0134 0.0122

Uranus 2524-12-03 13:40 G 2643268.99 2643269.07 2643269.15 0.0135 0.0105

Uranus 2525-03-01 16:33 G 2643357.10 2643357.19 2643357.31 0.0135 0.0088

Uranus 2525-05-28 19:55 G 2643445.22 2643445.33 2643445.45 0.0135 0.0070

Uranus 2525-08-24 23:16 G 2643533.35 2643533.47 2643533.59 0.0135 0.0052

Uranus 2525-11-21 02:24 G 2643621.47 2643621.60 2643621.73 0.0135 0.0035

Uranus 2526-02-17 05:31 G 2643709.60 2643709.73 2643709.87 0.0135 0.0017

Venus 2526-05-14 04:19 G 2643795.65 2643795.68 2643795.72 0.3681 0.3458

Uranus 2526-05-16 08:38 G 2643797.73 2643797.86 2643798.00 0.0135 0.0004

Uranus 2526-08-12 11:45 G 2643885.86 2643885.99 2643886.13 0.0135 0.0018

Mars 2526-11-08 04:48 G 2643973.60 2643973.70 2643973.80 0.1834 0.0924

Uranus 2526-11-08 14:52 G 2643974.00 2643974.12 2643974.25 0.0135 0.0036

Uranus 2527-02-04 18:14 G 2644062.13 2644062.26 2644062.38 0.0135 0.0053

Pluto 2527-04-12 16:19 G 2644129.15 2644129.18 2644129.22 0.0073 0.0071

Uranus 2527-05-03 21:07 G 2644150.27 2644150.38 2644150.50 0.0135 0.0070

Pluto 2527-07-09 18:28 G 2644217.17 2644217.27 2644217.37 0.0072 0.0059

Uranus 2527-07-31 00:14 G 2644238.42 2644238.51 2644238.62 0.0136 0.0088

Pluto 2527-10-05 19:55 G 2644305.21 2644305.33 2644305.49 0.0072 0.0047

Uranus 2527-10-27 03:21 G 2644326.56 2644326.64 2644326.73 0.0136 0.0105

Jupiter 2527-11-29 04:19 G 2644359.59 2644359.68 2644359.77 0.0490 0.0418

Mars 2527-12-04 03:21 G 2644364.48 2644364.64 2644364.80 0.1710 0.0490

Pluto 2528-01-01 22:04 G 2644393.27 2644393.42 2644393.59 0.0072 0.0035

Uranus 2528-01-23 06:28 G 2644414.72 2644414.77 2644414.83 0.0136 0.0122

Jupiter 2528-02-27 07:55 G 2644449.68 2644449.83 2644449.99 0.0491 0.0239

Pluto 2528-03-30 00:00 G 2644481.34 2644481.50 2644481.68 0.0072 0.0024

Saturn 2528-04-14 18:14 G 2644497.24 2644497.26 2644497.28 0.0284 0.0280

Pluto 2528-06-26 01:55 G 2644569.41 2644569.58 2644569.77 0.0072 0.0012

Saturn 2528-07-12 06:57 G 2644585.68 2644585.79 2644585.91 0.0285 0.0156

Pluto 2528-09-22 04:04 G 2644657.49 2644657.67 2644657.85 0.0072 0.0001

Saturn 2528-10-08 19:40 G 2644674.18 2644674.32 2644674.46 0.0285 0.0031

Mars 2528-10-13 15:50 G 2644679.11 2644679.16 2644679.20 0.1806 0.1626

Pluto 2528-12-19 05:45 G 2644745.57 2644745.74 2644745.92 0.0072 0.0012

Saturn 2529-01-05 08:09 G 2644762.71 2644762.84 2644762.97 0.0286 0.0093

Pluto 2529-03-17 07:40 G 2644833.65 2644833.82 2644833.99 0.0072 0.0023

Saturn 2529-04-03 20:24 G 2644851.27 2644851.35 2644851.44 0.0287 0.0216

Moon 2529-05-14 00:00 G 2644891.36 2644891.50 2644891.64 0.2646 0.1104

Earth 2529-05-14 01:26 G 2644891.42 2644891.56 2644891.71 0.2643 0.0970 *

Pluto 2529-06-13 09:07 G 2644921.74 2644921.88 2644922.06 0.0071 0.0035

Pluto 2529-09-09 11:02 G 2645009.84 2645009.96 2645010.11 0.0071 0.0045

Pluto 2529-12-06 12:43 G 2645097.94 2645098.03 2645098.16 0.0071 0.0057

Pluto 2530-03-04 14:38 G 2645186.07 2645186.11 2645186.18 0.0071 0.0067

Neptune 2532-02-22 13:26 G 2645906.02 2645906.06 2645906.09 0.0089 0.0086

Neptune 2532-05-20 14:38 G 2645994.06 2645994.11 2645994.19 0.0089 0.0079

Neptune 2532-08-16 16:19 G 2646082.11 2646082.18 2646082.27 0.0089 0.0071

Neptune 2532-11-12 18:00 G 2646170.16 2646170.25 2646170.35 0.0089 0.0064

Earth 2532-11-15 19:55 G 2646173.22 2646173.33 2646173.44 0.2689 0.0503

Moon 2532-11-15 20:09 G 2646173.23 2646173.34 2646173.45 0.2683 0.0471 *

Neptune 2533-02-08 19:26 G 2646258.21 2646258.31 2646258.42 0.0089 0.0057

Neptune 2533-05-07 20:52 G 2646346.27 2646346.37 2646346.50 0.0089 0.0050

Neptune 2533-08-03 22:48 G 2646434.32 2646434.45 2646434.57 0.0089 0.0042

Neptune 2533-10-31 00:14 G 2646522.38 2646522.51 2646522.64 0.0089 0.0034

Jupiter 2533-11-01 05:16 G 2646523.59 2646523.72 2646523.85 0.0537 0.0050

Neptune 2534-01-27 01:40 G 2646610.44 2646610.57 2646610.70 0.0089 0.0027

Neptune 2534-04-25 03:07 G 2646698.50 2646698.63 2646698.77 0.0089 0.0020

Neptune 2534-07-22 04:48 G 2646786.56 2646786.70 2646786.84 0.0089 0.0013

Neptune 2534-10-18 06:14 G 2646874.62 2646874.76 2646874.90 0.0089 0.0006

Neptune 2535-01-14 07:40 G 2646962.69 2646962.82 2646962.96 0.0089 0.0003

Neptune 2535-04-12 09:07 G 2647050.75 2647050.88 2647051.02 0.0089 0.0010

Neptune 2535-07-09 10:48 G 2647138.81 2647138.95 2647139.08 0.0089 0.0016

Neptune 2535-10-05 12:14 G 2647226.88 2647227.01 2647227.14 0.0089 0.0023

Neptune 2536-01-01 13:40 G 2647314.94 2647315.07 2647315.20 0.0089 0.0030

Neptune 2536-03-29 15:07 G 2647403.01 2647403.13 2647403.26 0.0089 0.0038

Mars 2536-03-30 13:26 G 2647404.01 2647404.06 2647404.12 0.1840 0.1587

Neptune 2536-06-25 16:33 G 2647491.08 2647491.19 2647491.31 0.0089 0.0045

Neptune 2536-09-21 18:00 G 2647579.14 2647579.25 2647579.36 0.0089 0.0052

Neptune 2536-12-18 19:26 G 2647667.21 2647667.31 2647667.42 0.0089 0.0059

Neptune 2537-03-16 20:52 G 2647755.29 2647755.37 2647755.47 0.0089 0.0066

Mars 2537-04-25 02:52 G 2647794.45 2647794.62 2647794.78 0.1703 0.0408

Neptune 2537-06-12 22:19 G 2647843.36 2647843.43 2647843.51 0.0089 0.0073

Neptune 2537-09-08 23:45 G 2647931.44 2647931.49 2647931.55 0.0089 0.0080

Neptune 2537-12-06 01:11 G 2648019.53 2648019.55 2648019.59 0.0089 0.0087

Mars 2538-03-06 01:26 G 2648109.46 2648109.56 2648109.65 0.1812 0.1041

Jupiter 2539-12-16 06:14 G 2648759.59 2648759.76 2648759.94 0.0490 0.0071

Saturn 2542-05-09 07:40 G 2649634.68 2649634.82 2649634.98 0.0276 0.0139

Moon 2542-05-17 08:09 G 2649642.73 2649642.84 2649642.95 0.2648 0.1838

Earth 2542-05-17 08:24 G 2649642.74 2649642.85 2649642.96 0.2641 0.1888 *

Saturn 2542-08-06 03:35 G 2649723.48 2649723.65 2649723.83 0.0275 0.0007

Saturn 2542-11-02 23:31 G 2649812.34 2649812.48 2649812.64 0.0274 0.0153

Jupiter 2545-08-20 08:24 G 2650833.73 2650833.85 2650833.97 0.0538 0.0207

Jupiter 2545-11-17 16:48 G 2650923.12 2650923.20 2650923.28 0.0536 0.0406

Moon 2545-11-18 13:26 G 2650923.96 2650924.06 2650924.17 0.2685 0.0827

Earth 2545-11-18 13:40 G 2650923.97 2650924.07 2650924.17 0.2691 0.0889 *

Mars 2546-09-15 02:52 G 2651224.51 2651224.62 2651224.73 0.1697 0.1254

Mars 2547-07-27 10:33 G 2651539.83 2651539.94 2651540.05 0.1819 0.0424

Jupiter 2551-10-04 05:16 G 2653069.54 2653069.72 2653069.89 0.0490 0.0089

Venus 2555-04-06 15:21 G 2654350.08 2654350.14 2654350.21 0.3677 0.2910

Venus 2556-10-20 21:50 G 2654913.27 2654913.41 2654913.55 0.3692 0.0797

Mars 2556-12-16 19:40 G 2654970.21 2654970.32 2654970.44 0.1827 0.0213

Jupiter 2557-06-08 12:14 G 2655143.91 2655144.01 2655144.11 0.0538 0.0355

Jupiter 2557-09-05 20:52 G 2655233.26 2655233.37 2655233.48 0.0537 0.0265

Saturn 2557-11-29 08:38 G 2655317.76 2655317.86 2655317.96 0.0283 0.0195

Mars 2558-01-12 05:02 G 2655361.64 2655361.71 2655361.79 0.1717 0.1510

Saturn 2558-02-25 21:21 G 2655406.26 2655406.39 2655406.52 0.0284 0.0071

Saturn 2558-05-25 09:50 G 2655494.78 2655494.91 2655495.04 0.0285 0.0053

Saturn 2558-08-21 22:04 G 2655583.32 2655583.42 2655583.53 0.0286 0.0176

Moon 2558-11-21 06:28 G 2655674.71 2655674.77 2655674.83 0.2690 0.2215

Earth 2558-11-21 07:11 G 2655674.74 2655674.80 2655674.86 0.2692 0.2262 *

Venus 2560-10-20 08:09 G 2656373.74 2656373.84 2656373.94 0.3678 0.1490

Venus 2562-05-07 02:52 G 2656937.51 2656937.62 2656937.72 0.3691 0.2486

Jupiter 2563-07-23 03:50 G 2657379.51 2657379.66 2657379.82 0.0490 0.0252

Jupiter 2563-10-21 07:55 G 2657469.74 2657469.83 2657469.93 0.0491 0.0413

Uranus 2565-03-31 06:14 G 2657996.69 2657996.76 2657996.83 0.0144 0.0133

Uranus 2565-06-27 13:55 G 2658084.96 2658085.08 2658085.22 0.0144 0.0104

Uranus 2565-09-23 22:04 G 2658173.26 2658173.42 2658173.58 0.0144 0.0074

Earth 2565-11-14 06:57 G 2658224.71 2658224.79 2658224.88 0.2688 0.1615

Moon 2565-11-14 07:40 G 2658224.73 2658224.82 2658224.91 0.2686 0.1558 *

Uranus 2565-12-21 06:00 G 2658261.57 2658261.75 2658261.93 0.0144 0.0045

Uranus 2566-03-19 14:09 G 2658349.90 2658350.09 2658350.28 0.0144 0.0015

Venus 2566-05-06 00:57 G 2658397.43 2658397.54 2658397.64 0.3679 0.0164

Mars 2566-05-09 04:48 G 2658400.59 2658400.70 2658400.80 0.1834 0.0861

Uranus 2566-06-15 22:04 G 2658438.23 2658438.42 2658438.61 0.0143 0.0015

Uranus 2566-09-12 06:00 G 2658526.58 2658526.75 2658526.94 0.0143 0.0046

Uranus 2566-12-09 14:09 G 2658614.93 2658615.09 2658615.26 0.0143 0.0075

Uranus 2567-03-07 22:19 G 2658703.31 2658703.43 2658703.56 0.0143 0.0105

Mars 2567-06-04 04:04 G 2658791.52 2658791.67 2658791.83 0.1710 0.0584

Uranus 2567-06-04 06:28 G 2658791.72 2658791.77 2658791.83 0.0143 0.0135 *

Mars 2568-04-13 15:50 G 2659106.12 2659106.16 2659106.20 0.1805 0.1690

Jupiter 2569-03-27 15:50 G 2659454.12 2659454.16 2659454.21 0.0538 0.0506

Jupiter 2569-06-25 00:57 G 2659543.41 2659543.54 2659543.66 0.0537 0.0120

Saturn 2571-09-26 04:33 G 2660366.58 2660366.69 2660366.82 0.0276 0.0200

Venus 2571-11-19 17:16 G 2660421.12 2660421.22 2660421.32 0.3680 0.1265

Saturn 2571-12-24 00:28 G 2660455.35 2660455.52 2660455.69 0.0275 0.0056

Saturn 2572-03-21 20:24 G 2660544.18 2660544.35 2660544.52 0.0275 0.0089

Saturn 2572-06-18 16:33 G 2660633.10 2660633.19 2660633.28 0.0274 0.0236

Jupiter 2575-05-11 03:07 G 2661689.53 2661689.63 2661689.73 0.0490 0.0407

Moon 2575-05-15 06:43 G 2661693.63 2661693.78 2661693.94 0.2647 0.0655

Earth 2575-05-15 08:09 G 2661693.68 2661693.84 2661693.99 0.2643 0.0425 *

Jupiter 2575-08-09 06:43 G 2661779.63 2661779.78 2661779.94 0.0491 0.0249

Mars	2575-09-29 13:26	G	2661831.00	2661831.06	2661831.12	0.1841	0.1531
Mars	2576-10-24 03:35	G	2662221.49	2662221.65	2662221.81	0.1703	0.0307
Venus	2577-06-04 09:50	G	2662444.83	2662444.91	2662444.98	0.3681	0.2585
Mars	2577-09-04 01:11	G	2662536.46	2662536.55	2662536.64	0.1812	0.1094
Earth	2578-11-17 00:43	G	2662975.42	2662975.53	2662975.64	0.2690	0.0225
Moon	2578-11-17 00:57	G	2662975.43	2662975.54	2662975.65	0.2683	0.0165 *
Jupiter	2581-04-13 04:19	G	2663853.55	2663853.68	2663853.81	0.0537	0.0036
Mars	2586-03-16 03:21	G	2665651.53	2665651.64	2665651.76	0.1696	0.1167
Mars	2587-01-25 10:33	G	2665966.83	2665966.94	2665967.05	0.1820	0.0489
Saturn	2587-04-18 09:35	G	2666049.84	2666049.90	2666049.98	0.0284	0.0238
Jupiter	2587-05-28 05:31	G	2666089.55	2666089.73	2666089.91	0.0491	0.0086
Saturn	2587-07-15 22:33	G	2666138.31	2666138.44	2666138.56	0.0285	0.0113
Saturn	2587-10-12 11:02	G	2666226.83	2666226.96	2666227.10	0.0285	0.0011
Saturn	2588-01-08 23:31	G	2666315.36	2666315.48	2666315.60	0.0286	0.0134
Saturn	2588-04-06 11:45	G	2666403.94	2666403.99	2666404.05	0.0287	0.0256
Moon	2588-05-17 14:52	G	2666445.06	2666445.12	2666445.17	0.2648	0.2456
Earth	2588-05-17 15:07	G	2666445.08	2666445.13	2666445.19	0.2641	0.2458 *
Moon	2591-11-19 18:00	G	2667726.15	2667726.25	2667726.35	0.2686	0.1131
Earth	2591-11-19 18:28	G	2667726.17	2667726.27	2667726.37	0.2691	0.1177 *
Jupiter	2593-01-30 07:40	G	2668163.70	2668163.82	2668163.94	0.0537	0.0192
Jupiter	2593-04-29 16:04	G	2668253.09	2668253.17	2668253.25	0.0536	0.0419
Mars	2596-06-16 19:55	G	2669397.21	2669397.33	2669397.44	0.1826	0.0150
Mars	2597-07-13 05:31	G	2669788.68	2669788.73	2669788.79	0.1717	0.1599
Jupiter	2599-03-16 04:04	G	2670399.49	2670399.67	2670399.85	0.0490	0.0077
Saturn	2601-02-13 04:48	G	2671098.62	2671098.70	2671098.79	0.0277	0.0239
Saturn	2601-05-13 00:28	G	2671187.36	2671187.52	2671187.69	0.0276	0.0095
Saturn	2601-08-09 20:24	G	2671276.18	2671276.35	2671276.53	0.0275	0.0050
Saturn	2601-11-06 16:33	G	2671365.07	2671365.19	2671365.32	0.0274	0.0197
Jupiter	2604-11-19 10:48	G	2672473.85	2672473.95	2672474.05	0.0538	0.0355
Moon	2604-11-22 11:16	G	2672476.93	2672476.97	2672477.02	0.2690	0.2404

Earth 2604-11-22 12:00 G 2672476.97 2672477.00 2672477.03 0.2693 0.2547 *

Jupiter 2605-02-16 19:26 G 2672563.20 2672563.31 2672563.42 0.0537 0.0265

Mars 2605-11-08 04:33 G 2672827.59 2672827.69 2672827.80 0.1834 0.0800

Mars 2606-12-04 04:33 G 2673218.54 2673218.69 2673218.85 0.1710 0.0674

Mars 2607-10-14 15:50 G 2673533.14 2673533.16 2673533.18 0.1805 0.1749

Venus 2607-11-12 18:28 G 2673562.19 2673562.27 2673562.36 0.3693 0.2918

Uranus 2608-07-01 15:07 G 2673794.11 2673794.13 2673794.15 0.0134 0.0133

Uranus 2608-09-27 18:00 G 2673882.20 2673882.25 2673882.33 0.0134 0.0116

Uranus 2608-12-24 21:21 G 2673970.31 2673970.39 2673970.49 0.0135 0.0098

Uranus 2609-03-23 00:43 G 2674058.42 2674058.53 2674058.64 0.0135 0.0080

Uranus 2609-06-19 03:50 G 2674146.55 2674146.66 2674146.78 0.0135 0.0063

Uranus 2609-09-15 07:11 G 2674234.67 2674234.80 2674234.92 0.0135 0.0045

Uranus 2609-12-12 10:19 G 2674322.80 2674322.93 2674323.06 0.0135 0.0028

Uranus 2610-03-10 13:26 G 2674410.93 2674411.06 2674411.19 0.0135 0.0010

Uranus 2610-06-06 16:33 G 2674499.06 2674499.19 2674499.32 0.0135 0.0007

Uranus 2610-09-02 19:40 G 2674587.19 2674587.32 2674587.45 0.0135 0.0025

Uranus 2610-11-29 22:48 G 2674675.33 2674675.45 2674675.58 0.0135 0.0042

Jupiter 2611-01-03 03:07 G 2674709.48 2674709.63 2674709.79 0.0489 0.0235

Uranus 2611-02-26 01:55 G 2674763.46 2674763.58 2674763.70 0.0135 0.0060

Jupiter 2611-04-03 06:57 G 2674799.71 2674799.79 2674799.89 0.0491 0.0428

Uranus 2611-05-25 05:02 G 2674851.60 2674851.71 2674851.82 0.0135 0.0077

Uranus 2611-08-21 08:09 G 2674939.75 2674939.84 2674939.94 0.0136 0.0094

Venus 2611-11-12 13:11 G 2675022.97 2675023.05 2675023.13 0.3677 0.2436

Earth 2611-11-16 11:45 G 2675026.90 2675026.99 2675027.09 0.2688 0.1325

Moon 2611-11-16 12:28 G 2675026.92 2675027.02 2675027.11 0.2684 0.1191 *

Uranus 2611-11-17 11:16 G 2675027.90 2675027.97 2675028.05 0.0136 0.0112

Uranus 2612-02-13 14:24 G 2675116.06 2675116.10 2675116.14 0.0136 0.0129

Venus 2613-05-28 22:48 G 2675586.31 2675586.45 2675586.60 0.3692 0.0224

Neptune 2614-11-08 06:57 G 2676114.78 2676114.79 2676114.84 0.0088 0.0087

Neptune 2615-02-04 10:04 G 2676202.85 2676202.92 2676203.02 0.0088 0.0078

Mars 2615-03-31 13:26 G 2676257.99 2676258.06 2676258.13 0.1840 0.1459

Neptune 2615-05-03 12:57 G 2676290.95 2676291.04 2676291.17 0.0088 0.0069

Neptune 2615-07-30 16:04 G 2676379.05 2676379.17 2676379.32 0.0088 0.0060

Neptune 2615-10-26 19:11 G 2676467.17 2676467.30 2676467.46 0.0088 0.0051

Neptune 2616-01-22 22:19 G 2676555.28 2676555.43 2676555.60 0.0088 0.0042

Neptune 2616-04-20 01:26 G 2676643.40 2676643.56 2676643.74 0.0088 0.0033

Mars 2616-04-25 04:19 G 2676648.52 2676648.68 2676648.85 0.1703 0.0211

Neptune 2616-07-17 04:33 G 2676731.52 2676731.69 2676731.87 0.0088 0.0024

Saturn 2616-09-05 11:45 G 2676781.96 2676781.99 2676782.03 0.0283 0.0273

Jupiter 2616-09-07 14:24 G 2676784.06 2676784.10 2676784.14 0.0539 0.0505

Neptune 2616-10-13 07:40 G 2676819.64 2676819.82 2676820.01 0.0088 0.0015

Saturn 2616-12-03 00:28 G 2676870.41 2676870.52 2676870.64 0.0283 0.0149

Jupiter 2616-12-05 23:31 G 2676873.35 2676873.48 2676873.60 0.0537 0.0122

Neptune 2617-01-09 10:48 G 2676907.77 2676907.95 2676908.14 0.0088 0.0006

Saturn 2617-03-01 13:11 G 2676958.91 2676959.05 2676959.18 0.0284 0.0026

Mars 2617-03-06 01:11 G 2676963.47 2676963.55 2676963.64 0.1812 0.1160

Neptune 2617-04-07 13:55 G 2676995.90 2676996.08 2676996.27 0.0088 0.0004

Venus 2617-05-28 06:00 G 2677046.65 2677046.75 2677046.85 0.3678 0.1026

Saturn 2617-05-29 01:40 G 2677047.44 2677047.57 2677047.69 0.0285 0.0097

Neptune 2617-07-04 17:02 G 2677084.03 2677084.21 2677084.40 0.0088 0.0013

Saturn 2617-08-25 13:55 G 2677135.99 2677136.08 2677136.17 0.0286 0.0218

Neptune 2617-09-30 20:09 G 2677172.16 2677172.34 2677172.52 0.0088 0.0022

Neptune 2617-12-27 23:16 G 2677260.30 2677260.47 2677260.65 0.0088 0.0031

Neptune 2618-03-26 02:09 G 2677348.44 2677348.59 2677348.77 0.0088 0.0041

Neptune 2618-06-22 05:16 G 2677436.58 2677436.72 2677436.89 0.0088 0.0050

Neptune 2618-09-18 08:38 G 2677524.73 2677524.86 2677525.01 0.0088 0.0059

Venus 2618-12-13 03:50 G 2677610.63 2677610.66 2677610.70 0.3690 0.3535

Neptune 2618-12-15 12:00 G 2677612.89 2677613.00 2677613.12 0.0088 0.0068

Neptune 2619-03-13 14:52 G 2677701.05 2677701.12 2677701.22 0.0088 0.0078

Neptune 2619-06-09 18:14 G 2677789.25 2677789.26 2677789.29 0.0088 0.0087

Moon	2621-05-16 13:40 G	2678495.92	2678496.07	2678496.23	0.2648	0.0124
Earth	2621-05-16 14:38 G	2678495.96	2678496.11	2678496.27	0.2643	0.0151 *
Jupiter	2622-10-22 01:40 G	2679019.48	2679019.57	2679019.68	0.0489	0.0397
Venus	2622-12-11 22:33 G	2679070.34	2679070.44	2679070.55	0.3679	0.0357
Jupiter	2623-01-20 05:16 G	2679109.57	2679109.72	2679109.88	0.0490	0.0259
Earth	2624-11-18 05:31 G	2679777.62	2679777.73	2679777.84	0.2690	0.0123
Moon	2624-11-18 05:45 G	2679777.63	2679777.74	2679777.85	0.2683	0.0069 *
Mars	2625-09-15 04:04 G	2680078.55	2680078.67	2680078.80	0.1697	0.1077
Mars	2626-07-27 10:33 G	2680393.83	2680393.94	2680394.05	0.1819	0.0549
Venus	2628-06-26 15:07 G	2681094.03	2681094.13	2681094.22	0.3680	0.1698
Jupiter	2628-09-24 03:21 G	2681183.51	2681183.64	2681183.77	0.0537	0.0025
Saturn	2630-09-29 21:35 G	2681919.26	2681919.40	2681919.55	0.0276	0.0154
Saturn	2630-12-27 17:31 G	2682008.05	2682008.23	2682008.41	0.0275	0.0009
Saturn	2631-03-26 13:26 G	2682096.91	2682097.06	2682097.22	0.0275	0.0137
Venus	2634-01-10 07:26 G	2683117.75	2683117.81	2683117.87	0.3681	0.3011
Jupiter	2634-11-08 04:04 G	2683419.50	2683419.67	2683419.85	0.0490	0.0096
Mars	2635-12-17 19:40 G	2683824.21	2683824.32	2683824.44	0.1827	0.0090
Mars	2637-01-12 06:28 G	2684215.75	2684215.77	2684215.79	0.1717	0.1697
Moon	2637-11-20 22:48 G	2684528.36	2684528.45	2684528.54	0.2686	0.1404
Earth	2637-11-20 23:16 G	2684528.38	2684528.47	2684528.56	0.2691	0.1461 *
Jupiter	2640-07-13 06:43 G	2685493.66	2685493.78	2685493.91	0.0537	0.0181
Jupiter	2640-10-10 15:07 G	2685583.05	2685583.13	2685583.20	0.0536	0.0429
Earth	2644-11-13 22:48 G	2687078.41	2687078.45	2687078.50	0.2687	0.2440
Moon	2644-11-13 23:31 G	2687078.43	2687078.48	2687078.54	0.2688	0.2273 *
Mars	2645-05-09 04:48 G	2687254.59	2687254.70	2687254.81	0.1834	0.0727
Saturn	2646-04-22 01:40 G	2687602.47	2687602.57	2687602.68	0.0284	0.0192
Mars	2646-06-04 05:31 G	2687645.58	2687645.73	2687645.88	0.1710	0.0775
Saturn	2646-07-19 14:24 G	2687690.97	2687691.10	2687691.24	0.0285	0.0068
Jupiter	2646-08-27 02:52 G	2687729.45	2687729.62	2687729.80	0.0490	0.0067
Saturn	2646-10-16 02:52 G	2687779.49	2687779.62	2687779.76	0.0285	0.0056

Saturn	2647-01-12 15:21 G	2687868.03	2687868.14	2687868.24	0.0286	0.0178
Uranus	2649-04-21 14:24 G	2688698.02	2688698.10	2688698.21	0.0144	0.0123
Uranus	2649-07-18 22:33 G	2688786.30	2688786.44	2688786.58	0.0144	0.0093
Uranus	2649-10-15 06:14 G	2688874.60	2688874.76	2688874.94	0.0144	0.0064
Uranus	2650-01-11 14:24 G	2688962.92	2688963.10	2688963.29	0.0144	0.0034
Uranus	2650-04-09 22:33 G	2689051.25	2689051.44	2689051.63	0.0144	0.0005
Uranus	2650-07-07 06:28 G	2689139.59	2689139.77	2689139.96	0.0143	0.0026
Uranus	2650-10-03 14:38 G	2689227.93	2689228.11	2689228.28	0.0143	0.0056
Uranus	2650-12-30 22:19 G	2689316.29	2689316.43	2689316.60	0.0143	0.0086
Uranus	2651-03-29 06:28 G	2689404.67	2689404.77	2689404.89	0.0143	0.0116
Jupiter	2652-05-01 10:04 G	2689803.82	2689803.92	2689804.02	0.0538	0.0339
Jupiter	2652-07-29 18:43 G	2689893.17	2689893.28	2689893.39	0.0536	0.0278
Moon	2654-05-14 12:57 G	2690546.96	2690547.04	2690547.12	0.2646	0.2241
Earth	2654-05-14 14:24 G	2690547.01	2690547.10	2690547.20	0.2645	0.2134 *
Mars	2654-09-29 13:40 G	2690684.99	2690685.07	2690685.14	0.1840	0.1396
Mars	2655-10-25 04:48 G	2691075.53	2691075.70	2691075.86	0.1703	0.0133
Mars	2656-09-04 01:26 G	2691390.47	2691390.56	2691390.64	0.1812	0.1223
Earth	2657-11-16 16:48 G	2691829.10	2691829.20	2691829.30	0.2688	0.1030
Moon	2657-11-16 17:16 G	2691829.11	2691829.22	2691829.32	0.2683	0.1026 *
Jupiter	2658-06-15 01:55 G	2692039.42	2692039.58	2692039.74	0.0489	0.0225
Jupiter	2658-09-13 06:00 G	2692129.67	2692129.75	2692129.83	0.0491	0.0438
Saturn	2660-02-16 21:50 G	2692651.29	2692651.41	2692651.54	0.0276	0.0193
Saturn	2660-05-15 17:31 G	2692740.06	2692740.23	2692740.41	0.0276	0.0049
Saturn	2660-08-12 13:40 G	2692828.90	2692829.07	2692829.23	0.0275	0.0098
Saturn	2660-11-09 09:50 G	2692917.83	2692917.91	2692917.99	0.0274	0.0244
Venus	2662-12-03 18:14 G	2693672.22	2693672.26	2693672.30	0.3677	0.3395
Jupiter	2664-02-18 12:43 G	2694113.99	2694114.03	2694114.07	0.0539	0.0508
Jupiter	2664-05-17 21:50 G	2694203.28	2694203.41	2694203.54	0.0537	0.0120
Venus	2664-06-18 19:26 G	2694235.19	2694235.31	2694235.43	0.3692	0.1962
Mars	2665-03-16 04:48 G	2694505.57	2694505.70	2694505.83	0.1697	0.0986

Mars 2666-01-25 10:33 G 2694820.83 2694820.94 2694821.05 0.1819 0.0612

Moon 2667-05-17 20:24 G 2695298.20 2695298.35 2695298.51 0.2649 0.0482

Earth 2667-05-17 21:21 G 2695298.23 2695298.39 2695298.54 0.2643 0.0696 *

Venus 2668-06-18 11:02 G 2695695.87 2695695.96 2695696.05 0.3678 0.1965

Venus 2670-01-02 23:45 G 2696259.36 2696259.49 2696259.63 0.3691 0.1222

Jupiter 2670-04-03 00:57 G 2696349.43 2696349.54 2696349.65 0.0489 0.0382

Jupiter 2670-07-02 04:33 G 2696439.54 2696439.69 2696439.83 0.0490 0.0273

Moon 2670-11-19 10:19 G 2696579.83 2696579.93 2696580.04 0.2683 0.0423

Earth 2670-11-19 10:19 G 2696579.83 2696579.93 2696580.04 0.2690 0.0375 *

Venus 2674-01-02 03:50 G 2697719.55 2697719.66 2697719.76 0.3679 0.0578

Mars 2675-06-17 19:40 G 2698251.21 2698251.32 2698251.44 0.1826 0.0075

Saturn 2675-09-09 04:19 G 2698334.60 2698334.68 2698334.76 0.0283 0.0223

Saturn 2675-12-06 17:02 G 2698423.08 2698423.21 2698423.34 0.0284 0.0100

Saturn 2676-03-04 05:31 G 2698511.59 2698511.73 2698511.86 0.0284 0.0024

Jupiter 2676-03-06 01:40 G 2698513.44 2698513.57 2698513.70 0.0538 0.0028

Saturn 2676-05-31 17:45 G 2698600.13 2698600.24 2698600.36 0.0285 0.0145

Saturn 2676-08-28 06:00 G 2698688.71 2698688.75 2698688.80 0.0286 0.0266

Venus 2679-07-18 20:24 G 2699743.24 2699743.35 2699743.45 0.3680 0.0807

Jupiter 2682-04-20 02:38 G 2700749.43 2700749.61 2700749.79 0.0490 0.0103

Moon 2683-11-22 03:35 G 2701330.56 2701330.65 2701330.73 0.2686 0.1640

Earth 2683-11-22 04:04 G 2701330.59 2701330.67 2701330.75 0.2691 0.1748 *

Mars 2684-11-07 04:48 G 2701681.59 2701681.70 2701681.81 0.1833 0.0670

Venus 2685-01-31 12:43 G 2701766.95 2701767.03 2701767.12 0.3681 0.2133

Mars 2685-12-03 06:14 G 2702072.61 2702072.76 2702072.90 0.1710 0.0865

Jupiter 2687-12-24 05:31 G 2702823.61 2702823.73 2702823.86 0.0538 0.0175

Jupiter 2688-03-22 13:55 G 2702913.01 2702913.08 2702913.15 0.0536 0.0437

Saturn 2689-07-05 19:40 G 2703383.25 2703383.32 2703383.40 0.0277 0.0247

Saturn 2689-10-02 15:21 G 2703471.98 2703472.14 2703472.30 0.0276 0.0103

Pluto 2689-12-12 13:55 G 2703543.05 2703543.08 2703543.12 0.0071 0.0069

Saturn 2689-12-30 11:16 G 2703560.79 2703560.97 2703561.14 0.0275 0.0042

Pluto 2690-03-10 14:24 G 2703631.04 2703631.10 2703631.19 0.0071 0.0061

Saturn 2690-03-29 07:26 G 2703649.68 2703649.81 2703649.94 0.0275 0.0188

Pluto 2690-06-06 15:21 G 2703719.06 2703719.14 2703719.25 0.0071 0.0052

Venus 2690-08-17 05:02 G 2703790.67 2703790.71 2703790.75 0.3681 0.3428

Pluto 2690-09-02 16:19 G 2703807.08 2703807.18 2703807.30 0.0072 0.0043

Earth 2690-11-15 03:50 G 2703880.59 2703880.66 2703880.72 0.2687 0.2143

Moon 2690-11-15 04:19 G 2703880.62 2703880.68 2703880.75 0.2686 0.2095 *

Pluto 2690-11-29 17:16 G 2703895.10 2703895.22 2703895.35 0.0072 0.0034

Pluto 2691-02-25 18:14 G 2703983.13 2703983.26 2703983.39 0.0072 0.0025

Pluto 2691-05-24 19:11 G 2704071.16 2704071.30 2704071.44 0.0072 0.0016

Pluto 2691-08-20 20:09 G 2704159.20 2704159.34 2704159.48 0.0072 0.0007

Pluto 2691-11-16 20:52 G 2704247.23 2704247.37 2704247.52 0.0072 0.0003

Pluto 2692-02-12 21:50 G 2704335.27 2704335.41 2704335.55 0.0072 0.0012

Pluto 2692-05-10 22:48 G 2704423.32 2704423.45 2704423.59 0.0072 0.0021

Uranus 2692-07-21 22:48 G 2704495.41 2704495.45 2704495.50 0.0134 0.0126

Pluto 2692-08-06 23:31 G 2704511.36 2704511.48 2704511.62 0.0072 0.0031

Uranus 2692-10-18 02:09 G 2704583.51 2704583.59 2704583.67 0.0135 0.0108

Pluto 2692-11-03 00:43 G 2704599.41 2704599.53 2704599.65 0.0073 0.0040

Uranus 2693-01-14 05:16 G 2704671.63 2704671.72 2704671.82 0.0135 0.0091

Pluto 2693-01-30 01:26 G 2704687.47 2704687.56 2704687.67 0.0073 0.0050

Uranus 2693-04-12 08:38 G 2704759.75 2704759.86 2704759.97 0.0135 0.0073

Pluto 2693-04-28 02:38 G 2704775.53 2704775.61 2704775.69 0.0073 0.0059

Uranus 2693-07-09 11:45 G 2704847.87 2704847.99 2704848.11 0.0135 0.0056

Pluto 2693-07-25 03:21 G 2704863.61 2704863.64 2704863.69 0.0073 0.0069

Uranus 2693-10-05 14:52 G 2704935.99 2704936.12 2704936.25 0.0135 0.0038

Uranus 2694-01-01 18:00 G 2705024.12 2705024.25 2705024.39 0.0135 0.0021

Jupiter 2694-02-06 01:26 G 2705059.38 2705059.56 2705059.74 0.0490 0.0059

Mars 2694-03-30 13:26 G 2705111.98 2705112.06 2705112.14 0.1840 0.1334

Uranus 2694-03-30 21:21 G 2705112.25 2705112.39 2705112.52 0.0135 0.0005

Uranus 2694-06-27 00:28 G 2705200.38 2705200.52 2705200.65 0.0135 0.0014

Uranus 2694-09-23 03:35 G 2705288.52 2705288.65 2705288.78 0.0135 0.0032

Uranus 2694-12-20 06:28 G 2705376.65 2705376.77 2705376.90 0.0135 0.0050

Uranus 2695-03-18 09:35 G 2705464.79 2705464.90 2705465.02 0.0135 0.0067

Mars 2695-04-25 05:45 G 2705502.57 2705502.74 2705502.90 0.1704 0.0058

Uranus 2695-06-14 12:57 G 2705552.93 2705553.04 2705553.14 0.0135 0.0084

Uranus 2695-09-10 16:04 G 2705641.08 2705641.17 2705641.25 0.0136 0.0101

Uranus 2695-12-07 18:57 G 2705729.24 2705729.29 2705729.36 0.0136 0.0119

Uranus 2696-03-04 22:04 G 2705817.42 2705817.42 2705817.43 0.0136 0.0136

Mars 2696-03-05 01:11 G 2705817.47 2705817.55 2705817.63 0.1812 0.1279

Neptune 2696-11-19 11:45 G 2706076.97 2706076.99 2706077.04 0.0089 0.0087

Neptune 2697-02-15 13:40 G 2706165.00 2706165.07 2706165.13 0.0089 0.0079

Neptune 2697-05-14 14:52 G 2706253.05 2706253.12 2706253.21 0.0089 0.0072

Neptune 2697-08-10 16:33 G 2706341.10 2706341.19 2706341.29 0.0089 0.0064

Neptune 2697-11-06 18:14 G 2706429.16 2706429.26 2706429.37 0.0089 0.0057

Neptune 2698-02-02 19:40 G 2706517.21 2706517.32 2706517.44 0.0089 0.0050

Neptune 2698-05-01 21:07 G 2706605.27 2706605.38 2706605.51 0.0089 0.0043

Neptune 2698-07-28 22:33 G 2706693.33 2706693.44 2706693.58 0.0089 0.0036

Neptune 2698-10-25 00:28 G 2706781.39 2706781.52 2706781.65 0.0089 0.0028

Neptune 2699-01-21 01:55 G 2706869.45 2706869.58 2706869.72 0.0089 0.0020

Neptune 2699-04-19 03:21 G 2706957.51 2706957.64 2706957.78 0.0089 0.0013

Neptune 2699-07-16 05:02 G 2707045.57 2707045.71 2707045.84 0.0089 0.0006

Neptune 2699-10-12 06:28 G 2707133.63 2707133.77 2707133.91 0.0089 0.0002

Jupiter 2699-10-12 08:52 G 2707133.77 2707133.87 2707133.97 0.0538 0.0332 *

Neptune 2700-01-08 07:55 G 2707221.69 2707221.83 2707221.97 0.0089 0.0009

Jupiter 2700-01-09 17:31 G 2707223.12 2707223.23 2707223.34 0.0536 0.0286

Neptune 2700-04-06 09:21 G 2707309.76 2707309.89 2707310.03 0.0089 0.0016

Moon 2700-05-15 19:40 G 2707349.21 2707349.32 2707349.43 0.2648 0.1814

Earth 2700-05-15 21:07 G 2707349.26 2707349.38 2707349.51 0.2645 0.1573 *

Neptune 2700-07-03 10:48 G 2707397.82 2707397.95 2707398.09 0.0089 0.0023

Neptune 2700-09-29 12:14 G 2707485.89 2707486.01 2707486.15 0.0089 0.0030

Neptune 2700-12-26 13:40 G 2707573.96 2707574.07 2707574.20 0.0089 0.0038

Neptune 2701-03-24 15:07 G 2707662.02 2707662.13 2707662.26 0.0089 0.0045

Neptune 2701-06-20 16:48 G 2707750.09 2707750.20 2707750.31 0.0089 0.0051

Neptune 2701-09-16 18:14 G 2707838.16 2707838.26 2707838.37 0.0089 0.0059

Neptune 2701-12-13 19:40 G 2707926.23 2707926.32 2707926.42 0.0089 0.0066

Neptune 2702-03-11 21:07 G 2708014.31 2708014.38 2708014.46 0.0089 0.0073

Neptune 2702-06-07 22:33 G 2708102.39 2708102.44 2708102.51 0.0089 0.0080

Neptune 2702-09-04 00:00 G 2708190.48 2708190.50 2708190.54 0.0089 0.0087

Earth 2703-11-18 21:35 G 2708631.29 2708631.40 2708631.50 0.2688 0.0741

Moon 2703-11-18 22:04 G 2708631.31 2708631.42 2708631.52 0.2683 0.0620 *

Mars 2704-09-15 05:16 G 2708932.59 2708932.72 2708932.86 0.1697 0.0901

Saturn 2705-01-27 05:31 G 2709066.68 2709066.73 2709066.78 0.0283 0.0265

Saturn 2705-04-25 18:14 G 2709155.14 2709155.26 2709155.38 0.0284 0.0141

Saturn 2705-07-23 06:43 G 2709243.65 2709243.78 2709243.92 0.0285 0.0020

Mars 2705-07-27 10:33 G 2709247.83 2709247.94 2709248.05 0.1819 0.0672

Saturn 2705-10-19 19:11 G 2709332.18 2709332.30 2709332.43 0.0286 0.0105

Jupiter 2705-11-26 00:14 G 2709369.36 2709369.51 2709369.67 0.0490 0.0219

Saturn 2706-01-16 07:26 G 2709420.74 2709420.81 2709420.90 0.0286 0.0227

Jupiter 2706-02-24 04:19 G 2709459.61 2709459.68 2709459.76 0.0491 0.0446

Jupiter 2711-08-01 12:00 G 2711443.95 2711444.00 2711444.05 0.0538 0.0493

Jupiter 2711-10-29 20:52 G 2711533.25 2711533.37 2711533.50 0.0537 0.0133

Moon 2713-05-19 03:07 G 2712100.49 2712100.63 2712100.77 0.2649 0.1263

Earth 2713-05-19 03:50 G 2712100.53 2712100.66 2712100.80 0.2643 0.1260 *

Mars 2714-12-17 19:55 G 2712678.21 2712678.33 2712678.44 0.1826 0.0056

Moon 2716-11-20 15:07 G 2713382.02 2713382.13 2713382.24 0.2684 0.0578

Earth 2716-11-20 15:07 G 2713382.03 2713382.13 2713382.24 0.2690 0.0663 *

Jupiter 2717-09-13 23:16 G 2713679.37 2713679.47 2713679.59 0.0489 0.0375

Jupiter 2717-12-13 02:52 G 2713769.48 2713769.62 2713769.77 0.0490 0.0280

Saturn 2719-02-20 15:35 G 2714204.00 2714204.15 2714204.30 0.0276 0.0142

Saturn 2719-05-20 11:31 G 2714292.80 2714292.98 2714293.15 0.0276 0.0005

Venus 2719-07-11 16:04 G 2714345.10 2714345.17 2714345.23 0.3677 0.2927

Saturn 2719-08-17 07:26 G 2714381.67 2714381.81 2714381.96 0.0275 0.0150

Venus 2721-01-24 20:09 G 2714908.20 2714908.34 2714908.48 0.3692 0.1000

Jupiter 2723-08-18 00:00 G 2715843.37 2715843.50 2715843.63 0.0538 0.0035

Mars 2724-05-09 04:48 G 2716108.59 2716108.70 2716108.81 0.1833 0.0604

Venus 2725-01-24 08:52 G 2716368.77 2716368.87 2716368.97 0.3678 0.1501

Mars 2725-06-04 06:57 G 2716499.65 2716499.79 2716499.92 0.1711 0.0960

Venus 2726-08-11 00:57 G 2716932.42 2716932.54 2716932.65 0.3691 0.2238

Jupiter 2729-10-01 01:26 G 2718079.39 2718079.56 2718079.74 0.0490 0.0116

Moon 2729-11-23 08:24 G 2718132.77 2718132.85 2718132.92 0.2687 0.1992

Earth 2729-11-23 08:52 G 2718132.80 2718132.87 2718132.94 0.2692 0.2032 *

Venus 2730-08-10 01:26 G 2718392.45 2718392.56 2718392.67 0.3679 0.0122

Uranus 2733-02-13 15:07 G 2719311.10 2719311.13 2719311.16 0.0144 0.0141

Uranus 2733-05-12 22:48 G 2719399.34 2719399.45 2719399.58 0.0144 0.0112

Uranus 2733-08-09 06:43 G 2719487.64 2719487.78 2719487.94 0.0144 0.0083

Mars 2733-09-29 13:40 G 2719538.98 2719539.07 2719539.15 0.1840 0.1269

Uranus 2733-11-05 14:52 G 2719575.94 2719576.12 2719576.29 0.0144 0.0053

Uranus 2734-02-01 22:48 G 2719664.26 2719664.45 2719664.64 0.0144 0.0023

Uranus 2734-05-01 06:43 G 2719752.59 2719752.78 2719752.97 0.0144 0.0007

Uranus 2734-07-28 14:38 G 2719840.93 2719841.11 2719841.30 0.0143 0.0037

Saturn 2734-09-12 21:07 G 2719887.27 2719887.38 2719887.49 0.0283 0.0168

Uranus 2734-10-24 22:48 G 2719929.29 2719929.45 2719929.62 0.0143 0.0066

Mars 2734-10-25 06:14 G 2719929.60 2719929.76 2719929.93 0.1704 0.0072 *

Saturn 2734-12-10 09:50 G 2719975.77 2719975.91 2719976.04 0.0284 0.0046

Uranus 2735-01-21 06:43 G 2720017.65 2720017.78 2720017.93 0.0143 0.0096

Saturn 2735-03-08 22:19 G 2720064.30 2720064.43 2720064.56 0.0285 0.0077

Uranus 2735-04-19 14:52 G 2720106.04 2720106.12 2720106.22 0.0143 0.0126

Saturn 2735-06-05 10:33 G 2720152.84 2720152.94 2720153.04 0.0285 0.0198

Jupiter 2735-06-06 03:35 G 2720153.53 2720153.65 2720153.77 0.0538 0.0183

Jupiter 2735-09-03 12:00 G 2720242.93 2720243.00 2720243.08 0.0537 0.0431

Mars 2735-09-05 01:11 G 2720244.48 2720244.55 2720244.63 0.1812 0.1339

Venus 2736-02-23 18:00 G 2720416.15 2720416.25 2720416.35 0.3680 0.1238

Earth 2736-11-16 08:38 G 2720682.78 2720682.86 2720682.94 0.2687 0.1853

Moon 2736-11-16 09:07 G 2720682.80 2720682.88 2720682.97 0.2684 0.1731 *

Jupiter 2741-07-19 23:45 G 2722389.31 2722389.49 2722389.66 0.0490 0.0055

Venus 2741-09-08 10:19 G 2722439.86 2722439.93 2722440.01 0.3681 0.2561

Mars 2744-03-16 06:00 G 2723359.61 2723359.75 2723359.90 0.1697 0.0808

Mars 2745-01-25 10:33 G 2723674.84 2723674.94 2723675.05 0.1819 0.0739

Moon 2746-05-17 02:24 G 2724151.46 2724151.60 2724151.74 0.2649 0.1158

Earth 2746-05-17 03:35 G 2724151.51 2724151.65 2724151.80 0.2644 0.1028 *

Jupiter 2747-03-25 07:26 G 2724463.71 2724463.81 2724463.91 0.0538 0.0331

Jupiter 2747-06-22 16:04 G 2724553.06 2724553.17 2724553.28 0.0537 0.0289

Saturn 2748-07-09 14:09 G 2724935.97 2724936.09 2724936.22 0.0277 0.0190

Saturn 2748-10-06 09:50 G 2725024.74 2725024.91 2725025.09 0.0276 0.0047

Saturn 2749-01-03 05:45 G 2725113.58 2725113.74 2725113.91 0.0275 0.0099

Saturn 2749-04-02 01:55 G 2725202.51 2725202.58 2725202.67 0.0274 0.0246

Earth 2749-11-19 02:24 G 2725433.49 2725433.60 2725433.71 0.2689 0.0449

Moon 2749-11-19 02:38 G 2725433.51 2725433.61 2725433.72 0.2683 0.0459 *

Jupiter 2753-05-07 22:33 G 2726699.28 2726699.44 2726699.60 0.0489 0.0215

Jupiter 2753-08-06 02:24 G 2726789.54 2726789.60 2726789.68 0.0491 0.0449

Mars 2753-08-06 06:28 G 2726789.73 2726789.77 2726789.80 0.1691 0.1637

Mars 2754-06-17 19:40 G 2727105.21 2727105.32 2727105.44 0.1826 0.0128

Jupiter 2759-01-11 10:33 G 2728773.89 2728773.94 2728774.00 0.0538 0.0490

Jupiter 2759-04-10 19:40 G 2728863.19 2728863.32 2728863.45 0.0537 0.0136

Moon 2759-05-20 10:04 G 2728902.80 2728902.92 2728903.04 0.2648 0.1669

Earth 2759-05-20 10:33 G 2728902.83 2728902.94 2728903.06 0.2643 0.1828 *

Moon 2762-11-21 19:40 G 2730184.22 2730184.32 2730184.42 0.2684 0.0964

Earth 2762-11-21 19:55 G 2730184.23 2730184.33 2730184.44 0.2690 0.0949 *

Mars 2763-11-08 04:48 G 2730535.59 2730535.70 2730535.81 0.1833 0.0538

Saturn 2764-01-30 22:33 G 2730619.35 2730619.44 2730619.53 0.0284 0.0209

Saturn 2764-04-28 11:16 G 2730707.84 2730707.97 2730708.10 0.0284 0.0085

Saturn 2764-07-25 23:45 G 2730796.36 2730796.49 2730796.63 0.0285 0.0038

Saturn 2764-10-22 12:14 G 2730884.90 2730885.01 2730885.12 0.0286 0.0160

Mars 2764-12-03 07:40 G 2730926.68 2730926.82 2730926.95 0.1710 0.1054

Saturn 2765-01-19 00:28 G 2730973.50 2730973.52 2730973.54 0.0287 0.0281

Jupiter 2765-02-23 21:35 G 2731009.29 2731009.40 2731009.51 0.0489 0.0374

Jupiter 2765-05-25 00:57 G 2731099.40 2731099.54 2731099.69 0.0491 0.0283

Jupiter 2771-01-27 23:02 G 2733173.33 2733173.46 2733173.59 0.0537 0.0021

Venus 2772-02-15 16:48 G 2733557.13 2733557.20 2733557.27 0.3693 0.3110

Mars 2773-03-30 13:40 G 2733965.98 2733966.07 2733966.16 0.1840 0.1199

Mars 2774-04-25 06:43 G 2734356.62 2734356.78 2734356.95 0.1704 0.0155

Mars 2775-03-06 01:26 G 2734671.49 2734671.56 2734671.63 0.1812 0.1408

Pluto 2775-08-07 00:00 G 2734825.43 2734825.50 2734825.61 0.0072 0.0064

Pluto 2775-11-03 01:55 G 2734913.47 2734913.58 2734913.73 0.0072 0.0052

Moon 2775-11-24 12:57 G 2734934.98 2734935.04 2734935.11 0.2688 0.2182

Earth 2775-11-24 13:40 G 2734935.02 2734935.07 2734935.12 0.2692 0.2319 *

Pluto 2776-01-30 04:04 G 2735001.53 2735001.67 2735001.83 0.0072 0.0039

Venus 2776-02-15 13:40 G 2735017.99 2735018.07 2735018.15 0.3678 0.2453

Pluto 2776-04-27 06:14 G 2735089.60 2735089.76 2735089.93 0.0072 0.0027

Pluto 2776-07-24 07:55 G 2735177.67 2735177.83 2735178.02 0.0072 0.0016

Uranus 2776-08-12 06:43 G 2735196.72 2735196.78 2735196.85 0.0134 0.0118

Pluto 2776-10-20 10:04 G 2735265.74 2735265.92 2735266.10 0.0072 0.0004

Uranus 2776-11-08 10:04 G 2735284.83 2735284.92 2735285.01 0.0135 0.0101

Pluto 2777-01-16 12:00 G 2735353.82 2735354.00 2735354.18 0.0072 0.0008

Uranus 2777-02-04 13:11 G 2735372.95 2735373.05 2735373.16 0.0135 0.0083

Jupiter 2777-03-12 23:45 G 2735409.32 2735409.49 2735409.66 0.0490 0.0120

Pluto 2777-04-14 13:55 G 2735441.90 2735442.08 2735442.25 0.0072 0.0019

Uranus 2777-05-03 16:19 G 2735461.07 2735461.18 2735461.30 0.0135 0.0066

Pluto 2777-07-11 15:21 G 2735529.99 2735530.14 2735530.32 0.0071 0.0031

Uranus 2777-07-30 19:26 G 2735549.19 2735549.31 2735549.44 0.0135 0.0049

Venus 2777-08-31 21:07 G 2735581.23 2735581.38 2735581.52 0.3692 0.0060

Pluto 2777-10-07 17:16 G 2735618.09 2735618.22 2735618.38 0.0071 0.0042

Uranus 2777-10-26 22:48 G 2735637.32 2735637.45 2735637.58 0.0135 0.0031

Saturn 2777-11-26 14:38 G 2735668.01 2735668.11 2735668.21 0.0277 0.0228

Pluto 2778-01-03 19:26 G 2735706.19 2735706.31 2735706.43 0.0071 0.0053

Uranus 2778-01-23 01:55 G 2735725.45 2735725.58 2735725.72 0.0135 0.0014

Saturn 2778-02-23 10:19 G 2735756.76 2735756.93 2735757.10 0.0276 0.0084

Pluto 2778-04-01 20:38 G 2735794.30 2735794.36 2735794.46 0.0071 0.0064

Uranus 2778-04-21 05:02 G 2735813.58 2735813.71 2735813.85 0.0135 0.0005

Saturn 2778-05-23 06:14 G 2735845.58 2735845.76 2735845.93 0.0275 0.0061

Uranus 2778-07-18 08:09 G 2735901.71 2735901.84 2735901.98 0.0135 0.0022

Saturn 2778-08-20 02:09 G 2735934.48 2735934.59 2735934.71 0.0275 0.0208

Uranus 2778-10-14 11:16 G 2735989.85 2735989.97 2735990.10 0.0135 0.0039

Uranus 2779-01-10 14:24 G 2736077.99 2736078.10 2736078.23 0.0135 0.0057

Uranus 2779-04-08 17:31 G 2736166.13 2736166.23 2736166.35 0.0135 0.0074

Uranus 2779-07-05 20:52 G 2736254.27 2736254.37 2736254.46 0.0136 0.0091

Neptune 2779-08-06 04:33 G 2736285.67 2736285.69 2736285.74 0.0088 0.0086

Uranus 2779-10-01 23:45 G 2736342.42 2736342.49 2736342.57 0.0136 0.0108

Neptune 2779-11-02 07:40 G 2736373.75 2736373.82 2736373.92 0.0088 0.0077

Uranus 2779-12-29 02:52 G 2736430.58 2736430.62 2736430.67 0.0136 0.0126

Neptune 2780-01-29 10:48 G 2736461.84 2736461.95 2736462.07 0.0088 0.0068

Neptune 2780-04-26 13:40 G 2736549.95 2736550.07 2736550.22 0.0088 0.0059

Neptune 2780-07-23 16:48 G 2736638.06 2736638.20 2736638.36 0.0088 0.0050

Neptune 2780-10-19 19:55 G 2736726.17 2736726.33 2736726.50 0.0088 0.0041

Neptune 2781-01-15 23:02 G 2736814.29 2736814.46 2736814.63 0.0088 0.0032

Neptune 2781-04-14 02:09 G 2736902.41 2736902.59 2736902.77 0.0088 0.0023

Neptune 2781-07-11 05:16 G 2736990.54 2736990.72 2736990.90 0.0088 0.0014

Venus 2781-08-31 06:28 G 2737041.67 2737041.77 2737041.88 0.3678 0.1049

Neptune 2781-10-07 08:24 G 2737078.66 2737078.85 2737079.03 0.0088 0.0005

Neptune 2782-01-03 11:31 G 2737166.79 2737166.98 2737167.16 0.0088 0.0004

Neptune 2782-04-01 14:24 G 2737254.92 2737255.10 2737255.29 0.0088 0.0014

Neptune 2782-06-28 17:31 G 2737343.06 2737343.23 2737343.42 0.0088 0.0023

Neptune 2782-09-24 20:38 G 2737431.19 2737431.36 2737431.54 0.0088 0.0032

Jupiter 2782-11-16 01:40 G 2737483.45 2737483.57 2737483.69 0.0538 0.0190

Earth 2782-11-17 13:26 G 2737484.97 2737485.06 2737485.15 0.2687 0.1560

Moon 2782-11-17 14:09 G 2737484.99 2737485.09 2737485.18 0.2683 0.1483 *

Neptune 2782-12-21 23:45 G 2737519.33 2737519.49 2737519.66 0.0088 0.0041

Jupiter 2783-02-13 10:04 G 2737572.85 2737572.92 2737573.00 0.0537 0.0425

Venus 2783-03-18 01:55 G 2737605.51 2737605.58 2737605.65 0.3690 0.3255

Neptune 2783-03-20 03:07 G 2737607.48 2737607.63 2737607.78 0.0088 0.0050

Neptune 2783-06-16 05:45 G 2737695.63 2737695.74 2737695.90 0.0088 0.0060

Neptune 2783-09-12 09:07 G 2737783.78 2737783.88 2737784.01 0.0088 0.0069

Mars 2783-09-15 06:43 G 2737786.64 2737786.78 2737786.93 0.1697 0.0715

Neptune 2783-12-09 12:28 G 2737871.94 2737872.02 2737872.11 0.0088 0.0078

Neptune 2784-03-06 15:35 G 2737960.15 2737960.15 2737960.17 0.0088 0.0087

Mars 2784-07-26 10:33 G 2738101.84 2738101.94 2738102.05 0.1819 0.0798

Venus 2787-03-16 23:16 G 2739065.36 2739065.47 2739065.57 0.3679 0.0350

Jupiter 2788-12-29 22:33 G 2739719.26 2739719.44 2739719.61 0.0489 0.0045

Moon 2792-05-17 09:07 G 2740953.73 2740953.88 2740954.03 0.2649 0.0640

Earth 2792-05-17 10:19 G 2740953.78 2740953.93 2740954.09 0.2644 0.0468 *

Venus 2792-09-29 15:35 G 2741089.06 2741089.15 2741089.25 0.3680 0.1681

Mars 2793-02-04 06:57 G 2741216.73 2741216.79 2741216.85 0.1691 0.1554

Saturn 2793-06-19 01:40 G 2741351.50 2741351.57 2741351.66 0.0283 0.0233

Saturn 2793-09-15 14:38 G 2741439.98 2741440.11 2741440.23 0.0284 0.0110

Saturn 2793-12-13 03:07 G 2741528.49 2741528.63 2741528.77 0.0284 0.0013

Mars 2793-12-16 19:55 G 2741532.21 2741532.33 2741532.44 0.1826 0.0182

Saturn 2794-03-11 15:35 G 2741617.03 2741617.15 2741617.27 0.0285 0.0135

Saturn 2794-06-08 03:50 G 2741705.60 2741705.66 2741705.72 0.0286 0.0256

Jupiter 2794-09-04 05:16 G 2741793.62 2741793.72 2741793.82 0.0538 0.0344

Jupiter 2794-12-02 13:55 G 2741882.97 2741883.08 2741883.19 0.0537 0.0278

Earth 2795-11-20 07:11 G 2742235.69 2742235.80 2742235.91 0.2689 0.0162

Moon 2795-11-20 07:26 G 2742235.70 2742235.81 2742235.92 0.2683 0.0101 *

Venus 2798-04-15 08:09 G 2743112.78 2743112.84 2743112.90 0.3681 0.2986

Jupiter 2800-10-17 20:38 G 2744029.20 2744029.36 2744029.52 0.0489 0.0214

Jupiter 2801-01-16 00:28 G 2744119.45 2744119.52 2744119.59 0.0490 0.0448

Mars 2803-05-09 04:48 G 2744962.59 2744962.70 2744962.81 0.1833 0.0475

Mars 2804-06-03 08:24 G 2745353.72 2745353.85 2745353.97 0.1711 0.1151

Moon 2805-05-20 17:02 G 2745705.15 2745705.21 2745705.27 0.2648 0.2438

Earth 2805-05-20 17:16 G 2745705.16 2745705.22 2745705.29 0.2642 0.2392 *

Jupiter 2806-06-23 08:52 G 2746103.82 2746103.87 2746103.92 0.0539 0.0494

Jupiter 2806-09-20 18:00 G 2746193.13 2746193.25 2746193.38 0.0537 0.0134

Saturn 2807-04-15 13:55 G 2746400.05 2746400.08 2746400.13 0.0277 0.0270

Saturn 2807-07-13 09:35 G 2746488.75 2746488.90 2746489.06 0.0276 0.0127

Saturn 2807-10-10 05:31 G 2746577.55 2746577.73 2746577.90 0.0276 0.0018

Saturn 2808-01-07 01:26 G 2746666.42 2746666.56 2746666.70 0.0275 0.0163

Moon 2808-11-22 00:28 G 2746986.42 2746986.52 2746986.62 0.2684 0.1122

Earth 2808-11-22 00:43 G 2746986.44 2746986.53 2746986.63 0.2690 0.1235 *

Jupiter 2812-08-05 19:26 G 2748339.20 2748339.31 2748339.43 0.0489 0.0373

Mars 2812-09-28 13:40 G 2748392.98 2748393.07 2748393.16 0.1840 0.1142

Jupiter 2812-11-03 22:48 G 2748429.31 2748429.45 2748429.60 0.0490 0.0282

Mars 2813-10-24 07:40 G 2748783.66 2748783.82 2748783.98 0.1704 0.0247

Mars 2814-09-04 01:11 G 2749098.49 2749098.55 2749098.62 0.1812 0.1460

Moon 2815-11-16 01:11 G 2749536.51 2749536.55 2749536.58 0.2687 0.2554

Earth 2815-11-16 00:28 G 2749536.52 2749536.52 2749536.52 0.2686 0.2684 *

Uranus 2817-03-05 23:45 G 2750012.42 2750012.49 2750012.58 0.0144 0.0129

Uranus 2817-06-02 07:40 G 2750100.70 2750100.82 2750100.97 0.0144 0.0100

Uranus 2817-08-29 15:50 G 2750189.00 2750189.16 2750189.32 0.0144 0.0070

Uranus 2817-11-25 23:31 G 2750277.31 2750277.48 2750277.67 0.0144 0.0041

Uranus 2818-02-22 07:40 G 2750365.63 2750365.82 2750366.01 0.0144 0.0011

Uranus 2818-05-21 15:35 G 2750453.97 2750454.15 2750454.34 0.0144 0.0020

Jupiter 2818-07-09 21:35 G 2750503.27 2750503.40 2750503.53 0.0537 0.0027

Uranus 2818-08-17 23:31 G 2750542.31 2750542.48 2750542.67 0.0143 0.0050

Uranus 2818-11-14 07:40 G 2750630.67 2750630.82 2750630.99 0.0143 0.0079

Uranus 2819-02-10 15:35 G 2750719.04 2750719.15 2750719.29 0.0143 0.0109

Uranus 2819-05-09 23:45 G 2750807.46 2750807.49 2750807.55 0.0143 0.0139

Moon 2821-11-24 17:45 G 2751737.21 2751737.24 2751737.27 0.2690 0.2569

Earth 2821-11-24 18:28 G 2751737.25 2751737.27 2751737.29 0.2692 0.2604 *

Mars 2822-02-18 22:19 G 2751823.42 2751823.43 2751823.45 0.1847 0.1814

Saturn 2822-11-06 03:07 G 2752083.60 2752083.63 2752083.67 0.0283 0.0273

Saturn 2823-02-02 16:04 G 2752172.05 2752172.17 2752172.29 0.0284 0.0149

Mars 2823-03-16 07:26 G 2752213.66 2752213.81 2752213.96 0.1697 0.0629

Saturn 2823-05-02 04:33 G 2752260.56 2752260.69 2752260.83 0.0285 0.0028

Saturn 2823-07-29 17:02 G 2752349.09 2752349.21 2752349.34 0.0285 0.0097

Saturn 2823-10-26 05:16 G 2752437.64 2752437.72 2752437.81 0.0286 0.0218

Mars 2824-01-25 10:33 G 2752528.84 2752528.94 2752529.05 0.1819 0.0862

Jupiter 2824-08-22 21:21 G 2752739.22 2752739.39 2752739.57 0.0490 0.0117

Venus 2827-03-08 18:43 G 2753667.24 2753667.28 2753667.32 0.3677 0.3416

Venus 2828-09-21 17:31 G 2754230.12 2754230.23 2754230.35 0.3693 0.2163

Earth 2828-11-17 18:14 G 2754287.16 2754287.26 2754287.36 0.2687 0.1269

Moon 2828-11-17 18:57 G 2754287.19 2754287.29 2754287.39 0.2684 0.1177 *

Jupiter 2830-04-28 00:43 G 2754813.41 2754813.53 2754813.65 0.0538 0.0180

Jupiter 2830-07-26 09:07 G 2754902.80 2754902.88 2754902.95 0.0536 0.0432

Mars 2832-08-05 07:26 G 2755643.74 2755643.81 2755643.89 0.1691 0.1470

Venus 2832-09-21 11:31 G 2755690.89 2755690.98 2755691.07 0.3678 0.1985

Mars 2833-06-16 19:55 G 2755959.22 2755959.33 2755959.45 0.1826 0.0237

Venus 2834-04-07 22:04 G 2756254.28 2756254.42 2756254.56 0.3691 0.0977

Jupiter 2836-06-10 20:24 G 2757049.17 2757049.35 2757049.53 0.0490 0.0043

Saturn 2836-11-29 10:04 G 2757220.79 2757220.92 2757221.07 0.0276 0.0164

Saturn 2837-02-26 06:00 G 2757309.57 2757309.75 2757309.92 0.0276 0.0020

Saturn 2837-05-26 01:55 G 2757398.42 2757398.58 2757398.74 0.0275 0.0126

Saturn	2837-08-22 22:19 G	2757487.41	2757487.43	2757487.44	0.0274	0.0273
Venus	2838-04-07 04:19 G	2757714.57	2757714.68	2757714.79	0.3679	0.0589
Moon	2838-05-18 15:35 G	2757756.00	2757756.15	2757756.31	0.2649	0.0107
Earth	2838-05-18 17:02 G	2757756.05	2757756.21	2757756.36	0.2644	0.0111 *
Moon	2841-11-20 12:00 G	2759037.89	2759038.00	2759038.11	0.2682	0.0118
Earth	2841-11-20 12:00 G	2759037.89	2759038.00	2759038.11	0.2689	0.0137 *
Jupiter	2842-02-14 03:07 G	2759123.54	2759123.63	2759123.73	0.0538	0.0353
Jupiter	2842-05-14 12:00 G	2759212.89	2759213.00	2759213.11	0.0537	0.0269
Mars	2842-11-07 04:48 G	2759389.59	2759389.70	2759389.81	0.1833	0.0415
Venus	2843-10-21 20:52 G	2759738.27	2759738.37	2759738.48	0.3680	0.0779
Mars	2843-12-03 08:52 G	2759780.76	2759780.87	2759780.99	0.1711	0.1242
Jupiter	2848-03-29 19:11 G	2761359.14	2761359.30	2761359.46	0.0489	0.0206
Jupiter	2848-06-27 23:02 G	2761449.40	2761449.46	2761449.52	0.0490	0.0456
Venus	2849-05-06 13:26 G	2761761.97	2761762.06	2761762.15	0.3680	0.2108
Mars	2852-03-29 13:40 G	2762819.98	2762820.07	2762820.17	0.1840	0.1070
Saturn	2852-06-21 19:40 G	2762904.21	2762904.32	2762904.43	0.0283	0.0170
Saturn	2852-09-18 08:24 G	2762992.71	2762992.85	2762992.98	0.0284	0.0048
Saturn	2852-12-15 20:52 G	2763081.24	2763081.37	2763081.50	0.0285	0.0075
Saturn	2853-03-14 09:07 G	2763169.79	2763169.88	2763169.98	0.0285	0.0196
Mars	2853-04-24 08:24 G	2763210.69	2763210.85	2763211.01	0.1704	0.0344
Jupiter	2853-12-03 06:28 G	2763433.73	2763433.77	2763433.81	0.0539	0.0510
Jupiter	2854-03-02 15:35 G	2763523.03	2763523.15	2763523.28	0.0538	0.0120
Mars	2854-03-05 01:11 G	2763525.49	2763525.55	2763525.61	0.1812	0.1526
Venus	2854-11-20 05:45 G	2763785.70	2763785.74	2763785.78	0.3681	0.3406
Moon	2854-11-23 05:16 G	2763788.63	2763788.72	2763788.81	0.2684	0.1511
Earth	2854-11-23 05:31 G	2763788.65	2763788.73	2763788.82	0.2690	0.1520 *
Jupiter	2860-01-16 17:16 G	2765669.11	2765669.22	2765669.33	0.0489	0.0375
Jupiter	2860-04-15 20:38 G	2765759.21	2765759.36	2765759.51	0.0490	0.0278
Uranus	2860-06-05 11:16 G	2765809.94	2765809.97	2765810.01	0.0134	0.0129
Uranus	2860-09-01 14:38 G	2765898.04	2765898.11	2765898.19	0.0134	0.0111

Uranus 2860-11-28 17:45 G 2765986.15 2765986.24 2765986.34 0.0134 0.0094

Uranus 2861-02-24 21:07 G 2766074.27 2766074.38 2766074.49 0.0135 0.0076

Uranus 2861-05-24 00:14 G 2766162.39 2766162.51 2766162.63 0.0135 0.0059

Neptune 2861-08-17 10:33 G 2766247.92 2766247.94 2766247.98 0.0089 0.0087

Mars 2861-08-19 22:19 G 2766250.40 2766250.43 2766250.46 0.1847 0.1758

Uranus 2861-08-20 03:21 G 2766250.52 2766250.64 2766250.77 0.0135 0.0041

Neptune 2861-11-13 12:00 G 2766335.95 2766336.00 2766336.08 0.0089 0.0080

Uranus 2861-11-16 06:43 G 2766338.64 2766338.78 2766338.91 0.0135 0.0024

Earth 2861-11-16 05:16 G 2766338.67 2766338.72 2766338.77 0.2686 0.2385 *

Moon 2861-11-16 06:00 G 2766338.70 2766338.75 2766338.80 0.2685 0.2335 *

Neptune 2862-02-09 13:55 G 2766424.00 2766424.08 2766424.16 0.0089 0.0072

Uranus 2862-02-12 09:50 G 2766426.77 2766426.91 2766427.04 0.0135 0.0007

Neptune 2862-05-08 15:21 G 2766512.05 2766512.14 2766512.24 0.0089 0.0065

Uranus 2862-05-11 12:57 G 2766514.91 2766515.04 2766515.17 0.0135 0.0011

Neptune 2862-08-04 16:48 G 2766600.10 2766600.20 2766600.31 0.0089 0.0057

Uranus 2862-08-07 16:04 G 2766603.04 2766603.17 2766603.30 0.0135 0.0028

Mars 2862-09-14 08:09 G 2766640.68 2766640.84 2766640.99 0.1697 0.0537

Neptune 2862-10-31 18:28 G 2766688.16 2766688.27 2766688.39 0.0089 0.0050

Uranus 2862-11-03 19:11 G 2766691.18 2766691.30 2766691.43 0.0135 0.0046

Neptune 2863-01-27 19:55 G 2766776.21 2766776.33 2766776.46 0.0089 0.0043

Uranus 2863-01-30 22:19 G 2766779.31 2766779.43 2766779.55 0.0135 0.0063

Neptune 2863-04-25 21:21 G 2766864.27 2766864.39 2766864.53 0.0089 0.0036

Uranus 2863-04-29 01:26 G 2766867.46 2766867.56 2766867.67 0.0135 0.0081

Neptune 2863-07-22 23:02 G 2766952.33 2766952.46 2766952.59 0.0089 0.0028

Uranus 2863-07-26 04:33 G 2766955.60 2766955.69 2766955.78 0.0135 0.0098

Mars 2863-07-26 10:33 G 2766955.85 2766955.94 2766956.04 0.1819 0.0922

Neptune 2863-10-19 00:43 G 2767040.39 2767040.53 2767040.66 0.0089 0.0021

Uranus 2863-10-22 07:26 G 2767043.75 2767043.81 2767043.89 0.0136 0.0116

Neptune 2864-01-15 02:09 G 2767128.45 2767128.59 2767128.73 0.0089 0.0013

Uranus 2864-01-18 10:33 G 2767131.93 2767131.94 2767131.98 0.0136 0.0133

Neptune 2864-04-12 03:35 G 2767216.52 2767216.65 2767216.79 0.0089 0.0006

Neptune 2864-07-09 05:16 G 2767304.58 2767304.72 2767304.85 0.0089 0.0003

Neptune 2864-10-05 06:43 G 2767392.64 2767392.78 2767392.91 0.0089 0.0008

Neptune 2865-01-01 08:09 G 2767480.70 2767480.84 2767480.98 0.0089 0.0015

Neptune 2865-03-30 09:35 G 2767568.77 2767568.90 2767569.04 0.0089 0.0023

Neptune 2865-06-26 11:02 G 2767656.84 2767656.96 2767657.09 0.0089 0.0030

Neptune 2865-09-22 12:28 G 2767744.90 2767745.02 2767745.15 0.0089 0.0037

Neptune 2865-12-19 13:55 G 2767832.97 2767833.08 2767833.21 0.0089 0.0044

Jupiter 2865-12-19 19:40 G 2767833.19 2767833.32 2767833.45 0.0538 0.0031 *

Neptune 2866-03-17 15:21 G 2767921.04 2767921.14 2767921.26 0.0089 0.0052

Saturn 2866-04-18 10:19 G 2767952.82 2767952.93 2767953.05 0.0277 0.0201

Neptune 2866-06-13 16:48 G 2768009.11 2768009.20 2768009.31 0.0089 0.0059

Saturn 2866-07-16 06:00 G 2768041.58 2768041.75 2768041.92 0.0276 0.0057

Neptune 2866-09-09 18:14 G 2768097.18 2768097.26 2768097.36 0.0089 0.0066

Saturn 2866-10-13 01:55 G 2768130.41 2768130.58 2768130.75 0.0275 0.0087

Neptune 2866-12-06 19:40 G 2768185.26 2768185.32 2768185.41 0.0089 0.0073

Saturn 2867-01-09 21:50 G 2768219.33 2768219.41 2768219.51 0.0275 0.0233

Neptune 2867-03-04 21:07 G 2768273.33 2768273.38 2768273.45 0.0089 0.0080

Neptune 2867-05-31 22:33 G 2768361.42 2768361.44 2768361.49 0.0089 0.0087

Moon 2871-05-16 15:21 G 2769807.09 2769807.14 2769807.19 0.2649 0.2468

Earth 2871-05-16 16:48 G 2769807.12 2769807.20 2769807.29 0.2646 0.2168 *

Jupiter 2872-02-02 19:11 G 2770069.12 2770069.30 2770069.47 0.0490 0.0113

Mars 2872-02-04 08:09 G 2770070.75 2770070.84 2770070.94 0.1691 0.1377

Mars 2872-12-15 19:40 G 2770386.21 2770386.32 2770386.44 0.1826 0.0301

Earth 2874-11-18 23:02 G 2771089.36 2771089.46 2771089.56 0.2687 0.0978

Moon 2874-11-18 23:31 G 2771089.38 2771089.48 2771089.59 0.2683 0.0888 *

Jupiter 2877-10-07 23:02 G 2772143.34 2772143.46 2772143.58 0.0538 0.0183

Jupiter 2878-01-05 07:26 G 2772232.74 2772232.81 2772232.89 0.0536 0.0431

Saturn 2881-11-08 21:07 G 2773636.29 2773636.38 2773636.48 0.0284 0.0209

Saturn 2882-02-05 09:50 G 2773724.78 2773724.91 2773725.04 0.0284 0.0086

Saturn	2882-05-04 22:19 G	2773813.30	2773813.43	2773813.57	0.0285	0.0038	
Mars	2882-05-08 05:02 G	2773816.59	2773816.71	2773816.82	0.1833	0.0350	
Saturn	2882-08-01 10:48 G	2773901.84	2773901.95	2773902.06	0.0286	0.0159	
Saturn	2882-10-28 23:02 G	2773990.44	2773990.46	2773990.49	0.0286	0.0280	
Mars	2883-06-03 09:50 G	2774207.81	2774207.91	2774208.01	0.1711	0.1342	
Venus	2883-10-13 16:33 G	2774340.13	2774340.19	2774340.25	0.3677	0.2940	
Jupiter	2883-11-21 17:45 G	2774379.06	2774379.24	2774379.42	0.0490	0.0051	
Moon	2884-05-18 22:33 G	2774558.29	2774558.44	2774558.60	0.2649	0.0572	
Earth	2884-05-18 23:31 G	2774558.33	2774558.48	2774558.64	0.2644	0.0648	*
Venus	2885-04-28 18:28 G	2774903.13	2774903.27	2774903.40	0.3692	0.1202	
Moon	2887-11-21 16:48 G	2775840.09	2775840.20	2775840.31	0.2682	0.0422	
Earth	2887-11-21 16:48 G	2775840.09	2775840.20	2775840.31	0.2689	0.0419	*
Venus	2889-04-28 09:21 G	2776363.79	2776363.89	2776363.99	0.3678	0.1519	
Jupiter	2889-07-27 02:09 G	2776453.49	2776453.59	2776453.69	0.0538	0.0344	
Jupiter	2889-10-24 11:02 G	2776542.85	2776542.96	2776543.07	0.0537	0.0277	
Venus	2890-11-12 23:02 G	2776927.34	2776927.46	2776927.58	0.3691	0.1982	
Mars	2891-09-28 13:40 G	2777246.97	2777247.07	2777247.17	0.1840	0.1008	
Mars	2892-10-23 08:52 G	2777637.71	2777637.87	2777638.03	0.1704	0.0423	
Mars	2893-09-03 01:26 G	2777952.50	2777952.56	2777952.61	0.1811	0.1590	
Venus	2894-11-12 02:09 G	2778387.48	2778387.59	2778387.69	0.3679	0.0169	
Saturn	2895-09-05 10:48 G	2778684.87	2778684.95	2778685.05	0.0277	0.0237	
Jupiter	2895-09-09 16:48 G	2778689.04	2778689.20	2778689.36	0.0489	0.0209	
Saturn	2895-12-03 06:28 G	2778773.61	2778773.77	2778773.94	0.0276	0.0094	
Jupiter	2895-12-08 20:38 G	2778779.30	2778779.36	2778779.43	0.0491	0.0454	
Saturn	2896-03-01 02:24 G	2778862.43	2778862.60	2778862.77	0.0275	0.0051	
Saturn	2896-05-28 22:19 G	2778951.32	2778951.43	2778951.56	0.0275	0.0197	
Venus	2900-05-28 18:43 G	2780411.18	2780411.28	2780411.38	0.3680	0.1219	
Moon	2900-11-24 10:04 G	2780590.83	2780590.92	2780591.00	0.2686	0.1701	
Earth	2900-11-24 10:33 G	2780590.86	2780590.94	2780591.02	0.2691	0.1806	*
Mars	2901-02-18 22:19 G	2780677.39	2780677.43	2780677.48	0.1847	0.1688	

Uranus 2901-03-27 07:40 G 2780713.73 2780713.82 2780713.93 0.0144 0.0120

Jupiter 2901-05-16 04:33 G 2780763.66 2780763.69 2780763.72 0.0538 0.0519

Uranus 2901-06-23 15:50 G 2780802.01 2780802.16 2780802.30 0.0144 0.0090

Jupiter 2901-08-13 13:40 G 2780852.94 2780853.07 2780853.20 0.0537 0.0110

Uranus 2901-09-19 23:31 G 2780890.32 2780890.48 2780890.66 0.0144 0.0061

Uranus 2901-12-17 07:40 G 2780978.64 2780978.82 2780979.00 0.0144 0.0031

Uranus 2902-03-15 15:35 G 2781066.96 2781067.15 2781067.34 0.0144 0.0002

Mars 2902-03-16 08:52 G 2781067.71 2781067.87 2781068.03 0.1698 0.0443

Uranus 2902-06-11 23:31 G 2781155.30 2781155.48 2781155.67 0.0144 0.0029

Uranus 2902-09-08 07:26 G 2781243.65 2781243.81 2781243.99 0.0143 0.0059

Uranus 2902-12-05 15:35 G 2781332.01 2781332.15 2781332.31 0.0143 0.0089

Mars 2903-01-25 10:33 G 2781382.85 2781382.94 2781383.04 0.1818 0.0985

Uranus 2903-03-03 23:45 G 2781420.39 2781420.49 2781420.60 0.0143 0.0118

Venus 2905-12-12 11:02 G 2782434.89 2782434.96 2782435.04 0.3681 0.2542

Jupiter 2907-06-29 15:35 G 2782999.04 2782999.15 2782999.27 0.0489 0.0369

Jupiter 2907-09-27 18:57 G 2783089.15 2783089.29 2783089.44 0.0490 0.0285

Earth 2907-11-18 10:04 G 2783140.85 2783140.92 2783140.99 0.2686 0.2093

Moon 2907-11-18 10:48 G 2783140.88 2783140.95 2783141.03 0.2685 0.1923 *

Saturn 2911-03-30 00:43 G 2784368.46 2784368.53 2784368.62 0.0283 0.0230

Saturn 2911-06-26 13:40 G 2784456.94 2784457.07 2784457.20 0.0284 0.0106

Mars 2911-08-06 08:52 G 2784497.77 2784497.87 2784497.98 0.1691 0.1285

Saturn 2911-09-23 02:09 G 2784545.45 2784545.59 2784545.73 0.0285 0.0017

Saturn 2911-12-20 14:38 G 2784633.99 2784634.11 2784634.23 0.0285 0.0139

Saturn 2912-03-18 02:52 G 2784722.57 2784722.62 2784722.68 0.0286 0.0260

Mars 2912-06-16 19:55 G 2784813.22 2784813.33 2784813.44 0.1826 0.0362

Jupiter 2913-06-01 17:16 G 2785163.09 2785163.22 2785163.35 0.0538 0.0048

Moon 2917-05-17 21:50 G 2786609.29 2786609.41 2786609.53 0.2648 0.1723

Earth 2917-05-17 23:16 G 2786609.35 2786609.47 2786609.60 0.2645 0.1633 *

Jupiter 2919-07-16 16:33 G 2787399.02 2787399.19 2787399.37 0.0490 0.0107

Earth 2920-11-20 03:50 G 2787891.56 2787891.66 2787891.77 0.2688 0.0688

Moon	2920-11-20 04:19 G	2787891.57	2787891.68	2787891.79	0.2683	0.0661 *
Mars	2921-11-07 04:48 G	2788243.59	2788243.70	2788243.82	0.1833	0.0287
Mars	2922-12-03 10:19 G	2788634.84	2788634.93	2788635.02	0.1711	0.1434
Saturn	2925-01-23 12:00 G	2789416.96	2789417.00	2789417.05	0.0277	0.0267
Jupiter	2925-03-20 20:52 G	2789473.25	2789473.37	2789473.50	0.0538	0.0194
Saturn	2925-04-22 07:26 G	2789505.66	2789505.81	2789505.97	0.0276	0.0125
Jupiter	2925-06-18 05:31 G	2789562.65	2789562.73	2789562.81	0.0537	0.0423
Saturn	2925-07-20 03:07 G	2789594.46	2789594.63	2789594.81	0.0276	0.0019
Saturn	2925-10-16 23:02 G	2789683.32	2789683.46	2789683.61	0.0275	0.0164
Moon	2930-05-21 05:31 G	2791360.59	2791360.73	2791360.88	0.2650	0.1061
Earth	2930-05-21 06:14 G	2791360.62	2791360.76	2791360.90	0.2643	0.1202 *
Mars	2931-03-30 13:40 G	2791673.97	2791674.07	2791674.17	0.1840	0.0944
Jupiter	2931-05-04 15:07 G	2791708.96	2791709.13	2791709.31	0.0490	0.0059
Mars	2932-04-24 09:50 G	2792064.75	2792064.91	2792065.07	0.1704	0.0529
Mars	2933-03-05 01:11 G	2792379.51	2792379.55	2792379.60	0.1811	0.1645
Moon	2933-11-22 21:35 G	2792642.29	2792642.40	2792642.50	0.2682	0.0707
Earth	2933-11-22 21:35 G	2792642.29	2792642.40	2792642.51	0.2689	0.0708 *
Venus	2936-05-20 15:21 G	2793552.07	2793552.14	2793552.20	0.3693	0.3271
Jupiter	2937-01-07 00:14 G	2793783.42	2793783.51	2793783.62	0.0538	0.0349
Jupiter	2937-04-06 09:07 G	2793872.77	2793872.88	2793872.99	0.0537	0.0273
Pluto	2938-04-07 21:21 G	2794239.36	2794239.39	2794239.45	0.0071	0.0068
Pluto	2938-07-04 22:33 G	2794327.36	2794327.44	2794327.52	0.0071	0.0059
Pluto	2938-09-30 23:02 G	2794415.38	2794415.46	2794415.58	0.0071	0.0051
Pluto	2938-12-28 00:00 G	2794503.40	2794503.50	2794503.63	0.0071	0.0041
Pluto	2939-03-26 00:57 G	2794591.42	2794591.54	2794591.67	0.0072	0.0032
Pluto	2939-06-22 01:55 G	2794679.45	2794679.58	2794679.72	0.0072	0.0023
Pluto	2939-09-18 02:52 G	2794767.48	2794767.62	2794767.76	0.0072	0.0014
Pluto	2939-12-15 03:50 G	2794855.52	2794855.66	2794855.80	0.0072	0.0005
Pluto	2940-03-12 04:48 G	2794943.56	2794943.70	2794943.84	0.0072	0.0004
Venus	2940-05-20 14:24 G	2795013.02	2795013.10	2795013.18	0.3678	0.2463

Pluto 2940-06-08 05:31 G 2795031.60 2795031.73 2795031.87 0.0072 0.0013

Saturn 2940-08-16 02:24 G 2795100.56 2795100.60 2795100.64 0.0283 0.0268

Mars 2940-08-19 22:33 G 2795104.38 2795104.44 2795104.49 0.1846 0.1619

Pluto 2940-09-04 06:28 G 2795119.64 2795119.77 2795119.91 0.0072 0.0023

Saturn 2940-11-12 15:07 G 2795189.02 2795189.13 2795189.25 0.0284 0.0145

Pluto 2940-12-01 07:11 G 2795207.69 2795207.80 2795207.94 0.0072 0.0032

Saturn 2941-02-09 03:50 G 2795277.52 2795277.66 2795277.80 0.0285 0.0022

Pluto 2941-02-27 08:09 G 2795295.73 2795295.84 2795295.97 0.0073 0.0042

Saturn 2941-05-08 16:19 G 2795366.05 2795366.18 2795366.31 0.0285 0.0101

Pluto 2941-05-26 09:21 G 2795383.79 2795383.89 2795383.99 0.0073 0.0051

Saturn 2941-08-05 04:33 G 2795454.61 2795454.69 2795454.78 0.0286 0.0222

Pluto 2941-08-22 10:04 G 2795471.85 2795471.92 2795472.00 0.0073 0.0061

Mars 2941-09-14 09:21 G 2795494.73 2795494.89 2795495.05 0.1698 0.0356

Pluto 2941-11-18 10:48 G 2795559.94 2795559.95 2795560.00 0.0073 0.0071

Venus 2941-12-04 19:26 G 2795576.16 2795576.31 2795576.45 0.3692 0.0237

Mars 2942-07-26 10:48 G 2795809.85 2795809.95 2795810.04 0.1819 0.1048

Jupiter 2943-02-20 13:55 G 2796018.93 2796019.08 2796019.24 0.0489 0.0219

Jupiter 2943-05-21 17:45 G 2796109.17 2796109.24 2796109.32 0.0491 0.0444

Neptune 2944-05-03 02:09 G 2796456.56 2796456.59 2796456.65 0.0088 0.0085

Uranus 2944-06-26 19:11 G 2796511.25 2796511.30 2796511.36 0.0134 0.0121

Neptune 2944-07-30 05:16 G 2796544.64 2796544.72 2796544.82 0.0088 0.0076

Uranus 2944-09-22 22:33 G 2796599.35 2796599.44 2796599.52 0.0134 0.0104

Neptune 2944-10-26 08:24 G 2796632.74 2796632.85 2796632.97 0.0088 0.0067

Uranus 2944-12-20 01:26 G 2796687.47 2796687.56 2796687.67 0.0134 0.0087

Neptune 2945-01-22 11:02 G 2796720.84 2796720.96 2796721.11 0.0088 0.0059

Uranus 2945-03-18 04:48 G 2796775.59 2796775.70 2796775.82 0.0135 0.0069

Neptune 2945-04-20 14:09 G 2796808.95 2796809.09 2796809.26 0.0088 0.0050

Uranus 2945-06-14 07:55 G 2796863.71 2796863.83 2796863.96 0.0135 0.0052

Neptune 2945-07-17 17:16 G 2796897.07 2796897.22 2796897.39 0.0088 0.0041

Uranus 2945-09-10 11:16 G 2796951.84 2796951.97 2796952.10 0.0135 0.0034

Neptune 2945-10-13 20:24 G 2796985.19 2796985.35 2796985.53 0.0088 0.0032

Venus 2945-12-04 07:11 G 2797036.70 2797036.80 2797036.90 0.3678 0.1056

Uranus 2945-12-07 14:24 G 2797039.97 2797040.10 2797040.23 0.0135 0.0017

Neptune 2946-01-09 23:31 G 2797073.31 2797073.48 2797073.66 0.0088 0.0023

Uranus 2946-03-05 17:31 G 2797128.10 2797128.23 2797128.37 0.0135 0.0002

Neptune 2946-04-08 02:38 G 2797161.43 2797161.61 2797161.80 0.0088 0.0014

Uranus 2946-06-01 20:38 G 2797216.23 2797216.36 2797216.50 0.0135 0.0019

Neptune 2946-07-05 05:45 G 2797249.56 2797249.74 2797249.93 0.0088 0.0004

Uranus 2946-08-28 23:45 G 2797304.37 2797304.49 2797304.62 0.0135 0.0036

Neptune 2946-10-01 08:52 G 2797337.69 2797337.87 2797338.06 0.0088 0.0005

Uranus 2946-11-25 02:52 G 2797392.50 2797392.62 2797392.75 0.0135 0.0053

Moon 2946-11-25 14:38 G 2797393.04 2797393.11 2797393.18 0.2687 0.2009

Earth 2946-11-25 15:21 G 2797393.07 2797393.14 2797393.20 0.2691 0.2089 *

Neptune 2946-12-28 12:00 G 2797425.82 2797426.00 2797426.18 0.0088 0.0014

Uranus 2947-02-21 06:00 G 2797480.64 2797480.75 2797480.87 0.0135 0.0070

Neptune 2947-03-26 15:07 G 2797513.95 2797514.13 2797514.31 0.0088 0.0023

Uranus 2947-05-20 09:07 G 2797568.79 2797568.88 2797568.99 0.0135 0.0088

Venus 2947-06-21 00:14 G 2797600.42 2797600.51 2797600.59 0.3690 0.3010

Neptune 2947-06-22 18:14 G 2797602.09 2797602.26 2797602.43 0.0088 0.0032

Uranus 2947-08-16 12:28 G 2797656.93 2797657.02 2797657.10 0.0135 0.0105

Neptune 2947-09-18 21:07 G 2797690.23 2797690.38 2797690.55 0.0088 0.0042

Uranus 2947-11-12 15:21 G 2797745.09 2797745.14 2797745.20 0.0135 0.0122

Neptune 2947-12-16 00:14 G 2797778.37 2797778.51 2797778.67 0.0088 0.0051

Neptune 2948-03-13 03:21 G 2797866.52 2797866.64 2797866.79 0.0088 0.0060

Neptune 2948-06-09 06:43 G 2797954.67 2797954.78 2797954.90 0.0088 0.0069

Neptune 2948-09-05 09:35 G 2798042.84 2798042.90 2798043.00 0.0088 0.0079

Jupiter 2948-10-26 03:21 G 2798093.60 2798093.64 2798093.68 0.0538 0.0511

Jupiter 2949-01-23 12:28 G 2798182.90 2798183.02 2798183.15 0.0537 0.0117

Mars 2951-02-04 09:21 G 2798924.78 2798924.89 2798925.01 0.1691 0.1205

Venus 2951-06-19 23:45 G 2799060.39 2799060.49 2799060.60 0.3679 0.0354

Mars	2951-12-16 19:55 G	2799240.22	2799240.33	2799240.44	0.1825	0.0427	
Earth	2953-11-18 14:52 G	2799943.04	2799943.12	2799943.20	0.2686	0.1800	
Moon	2953-11-18 15:35 G	2799943.07	2799943.15	2799943.23	0.2685	0.1759	*
Saturn	2954-09-09 07:55 G	2800237.69	2800237.83	2800237.97	0.0276	0.0162	
Saturn	2954-12-07 03:35 G	2800326.47	2800326.65	2800326.82	0.0276	0.0019	
Jupiter	2954-12-09 13:11 G	2800328.94	2800329.05	2800329.17	0.0489	0.0374	
Saturn	2955-03-05 23:16 G	2800415.32	2800415.47	2800415.64	0.0275	0.0126	
Jupiter	2955-03-09 16:33 G	2800419.04	2800419.19	2800419.34	0.0490	0.0280	
Saturn	2955-06-02 19:40 G	2800504.30	2800504.32	2800504.34	0.0274	0.0271	
Venus	2957-01-02 16:19 G	2801084.09	2801084.18	2801084.28	0.3680	0.1661	
Jupiter	2960-11-11 15:07 G	2802493.00	2802493.13	2802493.26	0.0538	0.0053	
Mars	2961-05-08 04:48 G	2802670.59	2802670.70	2802670.82	0.1833	0.0225	
Mars	2962-06-03 11:02 G	2803061.89	2803061.96	2803062.04	0.1711	0.1532	
Venus	2962-07-19 08:52 G	2803107.81	2803107.87	2803107.93	0.3681	0.2963	
Moon	2963-05-19 04:33 G	2803411.56	2803411.69	2803411.82	0.2648	0.1364	
Earth	2963-05-19 06:00 G	2803411.61	2803411.75	2803411.89	0.2645	0.1079	*
Earth	2966-11-21 08:38 G	2804693.75	2804693.86	2804693.97	0.2688	0.0399	
Moon	2966-11-21 08:52 G	2804693.76	2804693.87	2804693.98	0.2681	0.0312	*
Jupiter	2966-12-26 14:52 G	2804728.95	2804729.12	2804729.30	0.0490	0.0113	
Saturn	2970-04-01 18:57 G	2805921.18	2805921.29	2805921.40	0.0284	0.0164	
Saturn	2970-06-29 07:40 G	2806009.68	2806009.82	2806009.95	0.0284	0.0041	
Saturn	2970-09-25 20:09 G	2806098.21	2806098.34	2806098.47	0.0285	0.0081	
Mars	2970-09-28 13:40 G	2806100.97	2806101.07	2806101.18	0.1839	0.0881	
Saturn	2970-12-23 08:24 G	2806186.76	2806186.85	2806186.95	0.0286	0.0203	
Mars	2971-10-24 10:33 G	2806491.78	2806491.94	2806492.09	0.1704	0.0623	
Jupiter	2972-08-30 18:28 G	2806803.15	2806803.27	2806803.39	0.0538	0.0210	
Mars	2972-09-03 01:11 G	2806806.52	2806806.55	2806806.59	0.1811	0.1707	
Jupiter	2972-11-28 03:07 G	2806892.55	2806892.63	2806892.71	0.0537	0.0406	
Moon	2976-05-21 12:28 G	2808162.90	2808163.02	2808163.13	0.2650	0.1814	
Earth	2976-05-21 12:43 G	2808162.92	2808163.03	2808163.15	0.2643	0.1759	*

Jupiter	2978-10-14 12:43 G	2809038.85	2809039.03	2809039.20	0.0489	0.0064
Moon	2979-11-24 02:09 G	2809444.49	2809444.59	2809444.70	0.2683	0.0953
Earth	2979-11-24 02:24 G	2809444.50	2809444.60	2809444.70	0.2689	0.0996 *
Mars	2980-02-18 22:19 G	2809531.37	2809531.43	2809531.50	0.1846	0.1559
Mars	2981-03-15 10:04 G	2809921.76	2809921.92	2809922.09	0.1698	0.0262
Mars	2982-01-24 10:48 G	2810236.86	2810236.95	2810237.04	0.1818	0.1109
Saturn	2984-01-27 09:07 G	2810969.77	2810969.88	2810970.02	0.0277	0.0191
Saturn	2984-04-25 05:02 G	2811058.53	2811058.71	2811058.88	0.0276	0.0048
Jupiter	2984-06-18 22:04 G	2811113.33	2811113.42	2811113.52	0.0539	0.0361
Saturn	2984-07-23 00:43 G	2811147.37	2811147.53	2811147.70	0.0275	0.0097
Jupiter	2984-09-16 07:11 G	2811202.68	2811202.80	2811202.91	0.0537	0.0263
Saturn	2984-10-19 20:52 G	2811236.29	2811236.37	2811236.45	0.0274	0.0242
Uranus	2985-01-18 07:55 G	2811326.80	2811326.83	2811326.88	0.0144	0.0139
Uranus	2985-04-16 15:50 G	2811415.05	2811415.16	2811415.28	0.0144	0.0110
Uranus	2985-07-13 23:31 G	2811503.34	2811503.48	2811503.65	0.0144	0.0081
Uranus	2985-10-10 07:40 G	2811591.65	2811591.82	2811592.00	0.0144	0.0051
Uranus	2986-01-06 15:35 G	2811679.97	2811680.15	2811680.34	0.0144	0.0022
Uranus	2986-04-04 23:45 G	2811768.30	2811768.49	2811768.68	0.0144	0.0009
Uranus	2986-07-02 07:40 G	2811856.64	2811856.82	2811857.00	0.0144	0.0038
Uranus	2986-09-28 15:35 G	2811944.99	2811945.15	2811945.32	0.0143	0.0069
Uranus	2986-12-25 23:45 G	2812033.36	2812033.49	2812033.63	0.0143	0.0098
Uranus	2987-03-24 07:40 G	2812121.75	2812121.82	2812121.92	0.0143	0.0129
Jupiter	2990-08-02 11:31 G	2813348.82	2813348.98	2813349.14	0.0489	0.0225
Mars	2990-08-05 10:19 G	2813351.81	2813351.93	2813352.05	0.1691	0.1107
Jupiter	2990-10-31 15:07 G	2813439.05	2813439.13	2813439.21	0.0490	0.0436
Venus	2991-06-11 19:11 G	2813662.27	2813662.30	2813662.34	0.3677	0.3426
Mars	2991-06-16 19:55 G	2813667.22	2813667.33	2813667.44	0.1826	0.0485
Moon	2992-11-25 19:26 G	2814195.25	2814195.31	2814195.37	0.2688	0.2279
Earth	2992-11-25 20:09 G	2814195.29	2814195.34	2814195.39	0.2691	0.2375 *
Venus	2992-12-25 16:04 G	2814225.06	2814225.17	2814225.28	0.3693	0.2335

Jupiter	**2996-04-07 01:40 G**		**2815423.53**	**2815423.57**	**2815423.60**	**0.0538**	**0.0517**	
Jupiter	**2996-07-05 10:48 G**		**2815512.82**	**2815512.95**	**2815513.08**	**0.0537**	**0.0112**	
Venus	**2996-12-25 12:14 G**		**2815685.92**	**2815686.01**	**2815686.10**	**0.3678**	**0.1994**	
Venus	**2998-07-11 20:09 G**		**2816249.20**	**2816249.34**	**2816249.49**	**0.3691**	**0.0761**	
Saturn	**2999-08-19 20:09 G**		**2816653.25**	**2816653.34**	**2816653.44**	**0.0284**	**0.0205**	
Saturn	**2999-11-16 09:07 G**		**2816741.75**	**2816741.88**	**2816742.01**	**0.0284**	**0.0081**	
Earth	**2999-11-19 19:40 G**		**2816745.23**	**2816745.32**	**2816745.41**	**0.2686**	**0.1512**	
Moon	**2999-11-19 20:24 G**		**2816745.26**	**2816745.35**	**2816745.44**	**0.2684**	**0.1354**	*****
Saturn	**3000-02-12 21:35 G**		**2816830.27**	**2816830.40**	**2816830.54**	**0.0285**	**0.0042**	
Saturn	**3000-05-12 10:04 G**		**2816918.81**	**2816918.92**	**2816919.03**	**0.0286**	**0.0163**	
Saturn	**3000-08-08 22:19 G**		**2817007.42**	**2817007.43**	**2817007.45**	**0.0286**	**0.0284**	
Mars	**3000-11-07 05:02 G**		**2817097.59**	**2817097.71**	**2817097.82**	**0.1833**	**0.0161**	

4TH MILLENNIUM CE

This is a list of transits of Mercury in the 4th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	**3001-12-03 11:45 G**		**2817488.95**	**2817488.99**	**2817489.04**	**0.1711**	**0.1626**	
Jupiter	**3002-05-22 10:33 G**		**2817658.83**	**2817658.94**	**2817659.04**	**0.0489**	**0.0385**	
Venus	**3002-07-12 05:02 G**		**2817709.60**	**2817709.71**	**2817709.81**	**0.3679**	**0.0614**	
Jupiter	**3002-08-20 13:40 G**		**2817748.92**	**2817749.07**	**2817749.22**	**0.0490**	**0.0269**	
Venus	**3008-01-25 21:35 G**		**2819733.30**	**2819733.40**	**2819733.50**	**0.3680**	**0.0758**	
Jupiter	**3008-04-24 14:09 G**		**2819822.96**	**2819823.09**	**2819823.22**	**0.0537**	**0.0047**	
Moon	**3009-05-20 11:16 G**		**2820213.82**	**2820213.97**	**2820214.12**	**0.2649**	**0.0595**	

Earth	3009-05-20 12:28 G	2820213.87	2820214.02	2820214.18	0.2645	0.0537 *
Mars	3010-03-30 13:55 G	2820527.97	2820528.08	2820528.18	0.1839	0.0810
Mars	3011-04-25 11:02 G	2820918.81	2820918.96	2820919.11	0.1705	0.0708
Mars	3012-03-05 01:26 G	2821233.54	2821233.56	2821233.58	0.1811	0.1775
Earth	3012-11-22 13:26 G	2821495.95	2821496.06	2821496.17	0.2688	0.0126
Moon	3012-11-22 13:40 G	2821495.96	2821496.07	2821496.18	0.2681	0.0155 *
Saturn	3013-06-16 09:35 G	2821701.81	2821701.90	2821702.00	0.0277	0.0229
Venus	3013-08-10 14:09 G	2821757.00	2821757.09	2821757.17	0.3681	0.2084
Saturn	3013-09-13 05:02 G	2821790.55	2821790.71	2821790.88	0.0276	0.0087
Saturn	3013-12-11 00:57 G	2821879.36	2821879.54	2821879.71	0.0275	0.0058
Saturn	3014-03-09 20:52 G	2821968.25	2821968.37	2821968.49	0.0274	0.0202
Jupiter	3014-06-08 12:28 G	2822058.85	2822059.02	2822059.20	0.0490	0.0108
Venus	3019-02-24 06:28 G	2823780.73	2823780.77	2823780.81	0.3681	0.3381
Mars	3019-08-20 22:33 G	2823958.37	2823958.44	2823958.50	0.1846	0.1492
Jupiter	3020-02-11 16:33 G	2824133.07	2824133.19	2824133.31	0.0538	0.0217
Jupiter	3020-05-11 01:11 G	2824222.47	2824222.55	2824222.63	0.0536	0.0399
Mars	3020-09-14 10:48 G	2824348.79	2824348.95	2824349.12	0.1698	0.0172
Mars	3021-07-26 10:48 G	2824663.86	2824663.95	2824664.03	0.1818	0.1170
Moon	3022-05-23 18:57 G	2824965.21	2824965.29	2824965.38	0.2650	0.2182
Earth	3022-05-23 19:26 G	2824965.23	2824965.31	2824965.38	0.2643	0.2319 *
Pluto	3023-12-01 06:28 G	2825521.70	2825521.77	2825521.87	0.0072	0.0064
Pluto	3024-02-27 08:24 G	2825609.74	2825609.85	2825609.99	0.0072	0.0052
Pluto	3024-05-25 10:19 G	2825697.80	2825697.93	2825698.10	0.0072	0.0040
Pluto	3024-08-21 12:28 G	2825785.86	2825786.02	2825786.19	0.0072	0.0027
Pluto	3024-11-17 14:38 G	2825873.93	2825874.11	2825874.28	0.0072	0.0015
Pluto	3025-02-13 16:33 G	2825962.01	2825962.19	2825962.37	0.0072	0.0004
Pluto	3025-05-12 18:14 G	2826050.09	2826050.26	2826050.44	0.0072	0.0008
Pluto	3025-08-08 19:55 G	2826138.17	2826138.33	2826138.52	0.0072	0.0020
Pluto	3025-11-04 22:04 G	2826226.26	2826226.42	2826226.58	0.0071	0.0031
Moon	3025-11-25 06:57 G	2826246.69	2826246.79	2826246.88	0.2684	0.1280

Earth 3025-11-25 07:11 G 2826246.71 2826246.80 2826246.90 0.2690 0.1285 *

Pluto 3026-01-31 23:31 G 2826314.35 2826314.48 2826314.64 0.0071 0.0043

Jupiter 3026-03-27 11:02 G 2826368.79 2826368.96 2826369.14 0.0490 0.0058

Pluto 3026-04-30 01:26 G 2826402.46 2826402.56 2826402.69 0.0071 0.0053

Neptune 3026-05-16 09:07 G 2826418.86 2826418.88 2826418.92 0.0089 0.0087

Pluto 3026-07-27 03:21 G 2826490.58 2826490.64 2826490.72 0.0071 0.0064

Neptune 3026-08-12 10:48 G 2826506.90 2826506.95 2826507.02 0.0089 0.0080

Neptune 3026-11-08 12:14 G 2826594.94 2826595.01 2826595.10 0.0089 0.0073

Neptune 3027-02-04 14:09 G 2826682.99 2826683.09 2826683.18 0.0089 0.0065

Neptune 3027-05-03 15:35 G 2826771.05 2826771.15 2826771.26 0.0089 0.0058

Neptune 3027-07-30 17:02 G 2826859.10 2826859.21 2826859.33 0.0089 0.0050

Neptune 3027-10-26 18:43 G 2826947.16 2826947.28 2826947.40 0.0089 0.0043

Neptune 3028-01-22 20:09 G 2827035.22 2827035.34 2827035.47 0.0089 0.0036

Neptune 3028-04-19 21:35 G 2827123.28 2827123.40 2827123.54 0.0089 0.0029

Uranus 3028-04-20 23:45 G 2827124.47 2827124.49 2827124.52 0.0134 0.0131

Neptune 3028-07-16 23:16 G 2827211.34 2827211.47 2827211.61 0.0089 0.0021

Uranus 3028-07-18 02:52 G 2827212.56 2827212.62 2827212.70 0.0134 0.0114

Neptune 3028-10-13 00:43 G 2827299.40 2827299.53 2827299.67 0.0089 0.0014

Uranus 3028-10-14 06:14 G 2827300.67 2827300.76 2827300.86 0.0134 0.0097

Saturn 3029-01-06 23:45 G 2827385.41 2827385.49 2827385.58 0.0283 0.0225

Neptune 3029-01-09 02:24 G 2827387.46 2827387.60 2827387.74 0.0089 0.0007

Uranus 3029-01-10 09:21 G 2827388.79 2827388.89 2827389.00 0.0134 0.0079

Saturn 3029-04-05 12:43 G 2827473.90 2827474.03 2827474.16 0.0284 0.0102

Neptune 3029-04-07 03:50 G 2827475.52 2827475.66 2827475.80 0.0089 0.0001

Uranus 3029-04-08 12:43 G 2827476.91 2827477.03 2827477.15 0.0134 0.0062

Saturn 3029-07-03 01:11 G 2827562.42 2827562.55 2827562.69 0.0285 0.0022

Neptune 3029-07-04 05:16 G 2827563.59 2827563.72 2827563.86 0.0089 0.0008

Uranus 3029-07-05 15:50 G 2827565.04 2827565.16 2827565.29 0.0135 0.0044

Saturn 3029-09-29 13:40 G 2827650.96 2827651.07 2827651.19 0.0286 0.0143

Neptune 3029-09-30 06:43 G 2827651.65 2827651.78 2827651.92 0.0089 0.0016

Uranus 3029-10-01 18:57 G 2827653.16 2827653.29 2827653.43 0.0135 0.0027

Saturn 3029-12-27 01:55 G 2827739.54 2827739.58 2827739.64 0.0286 0.0265

Neptune 3029-12-27 08:24 G 2827739.72 2827739.85 2827739.98 0.0089 0.0022

Uranus 3029-12-28 22:19 G 2827741.29 2827741.43 2827741.56 0.0135 0.0010

Mars 3030-02-04 10:48 G 2827778.82 2827778.95 2827779.08 0.1691 0.1021

Neptune 3030-03-25 09:50 G 2827827.78 2827827.91 2827828.04 0.0089 0.0029

Uranus 3030-03-27 01:26 G 2827829.42 2827829.56 2827829.69 0.0135 0.0008

Neptune 3030-06-21 11:16 G 2827915.85 2827915.97 2827916.10 0.0089 0.0037

Uranus 3030-06-23 04:33 G 2827917.56 2827917.69 2827917.82 0.0135 0.0025

Neptune 3030-09-17 12:43 G 2828003.92 2828004.03 2828004.15 0.0089 0.0044

Uranus 3030-09-19 07:40 G 2828005.69 2828005.82 2828005.95 0.0135 0.0043

Neptune 3030-12-14 14:24 G 2828091.99 2828092.10 2828092.21 0.0089 0.0051

Uranus 3030-12-16 10:48 G 2828093.83 2828093.95 2828094.07 0.0135 0.0060

Mars 3030-12-16 19:55 G 2828094.22 2828094.33 2828094.44 0.1825 0.0549

Neptune 3031-03-12 15:50 G 2828180.06 2828180.16 2828180.26 0.0089 0.0058

Uranus 3031-03-14 13:55 G 2828181.97 2828182.08 2828182.19 0.0135 0.0077

Neptune 3031-06-08 17:02 G 2828268.13 2828268.21 2828268.31 0.0089 0.0065

Uranus 3031-06-10 17:02 G 2828270.12 2828270.21 2828270.31 0.0135 0.0095

Neptune 3031-09-04 18:28 G 2828356.20 2828356.27 2828356.36 0.0089 0.0072

Uranus 3031-09-06 20:09 G 2828358.27 2828358.34 2828358.42 0.0135 0.0112

Jupiter 3031-11-30 19:55 G 2828443.24 2828443.33 2828443.42 0.0538 0.0376

Neptune 3031-12-01 19:55 G 2828444.28 2828444.33 2828444.40 0.0089 0.0080

Uranus 3031-12-03 23:02 G 2828446.44 2828446.46 2828446.51 0.0135 0.0130

Neptune 3032-02-27 21:21 G 2828532.37 2828532.39 2828532.44 0.0089 0.0087

Jupiter 3032-02-28 04:48 G 2828532.59 2828532.70 2828532.81 0.0537 0.0248

Earth 3032-11-18 06:43 G 2828796.76 2828796.78 2828796.80 0.2685 0.2630

Moon 3032-11-18 07:26 G 2828796.77 2828796.81 2828796.85 0.2687 0.2492 *

Jupiter 3038-01-13 08:52 G 2830678.72 2830678.87 2830679.03 0.0489 0.0232

Jupiter 3038-04-13 12:28 G 2830768.94 2830769.02 2830769.11 0.0490 0.0428

Moon 3038-11-28 00:14 G 2830997.48 2830997.51 2830997.54 0.2688 0.2550

Earth	3038-11-28 00:57 G	2830997.52	2830997.54	2830997.55	0.2691	0.2662	*
Mars	3040-05-08 05:02 G	2831524.59	2831524.71	2831524.82	0.1832	0.0108	
Saturn	3042-11-03 11:16 G	2832433.91	2832433.97	2832434.04	0.0277	0.0254	
Saturn	3043-01-31 06:43 G	2832522.62	2832522.78	2832522.94	0.0276	0.0113	
Saturn	3043-04-30 02:24 G	2832611.43	2832611.60	2832611.78	0.0275	0.0031	
Saturn	3043-07-27 22:19 G	2832700.30	2832700.43	2832700.57	0.0275	0.0175	
Jupiter	3043-09-18 23:16 G	2832753.46	2832753.47	2832753.50	0.0539	0.0530	
Jupiter	3043-12-17 08:38 G	2832842.74	2832842.86	2832842.99	0.0538	0.0103	
Earth	3045-11-21 00:28 G	2833547.43	2833547.52	2833547.62	0.2686	0.1219	
Moon	3045-11-21 01:11 G	2833547.45	2833547.55	2833547.65	0.2682	0.1185	*
Venus	3048-01-17 17:02 G	2834335.15	2834335.21	2834335.28	0.3677	0.2952	
Venus	3049-08-02 16:48 G	2834898.07	2834898.20	2834898.33	0.3692	0.1395	
Mars	3049-09-28 13:55 G	2834954.97	2834955.08	2834955.18	0.1840	0.0751	
Jupiter	3049-11-01 07:55 G	2834988.73	2834988.83	2834988.94	0.0489	0.0390	
Jupiter	3050-01-30 11:02 G	2835078.81	2835078.96	2835079.11	0.0490	0.0261	
Mars	3050-10-24 12:00 G	2835345.85	2835346.00	2835346.14	0.1705	0.0811	
Venus	3053-08-02 10:04 G	2836358.82	2836358.92	2836359.01	0.3678	0.1549	
Venus	3055-02-16 21:07 G	2836922.25	2836922.38	2836922.51	0.3691	0.1729	
Moon	3055-05-21 18:14 G	2837016.11	2837016.26	2837016.42	0.2650	0.0161	
Earth	3055-05-21 19:11 G	2837016.14	2837016.30	2837016.46	0.2645	0.0044	*
Jupiter	3055-10-05 12:28 G	2837152.89	2837153.02	2837153.15	0.0538	0.0052	
Saturn	3058-05-27 01:11 G	2838117.51	2838117.55	2838117.60	0.0283	0.0265	
Saturn	3058-08-23 14:09 G	2838205.97	2838206.09	2838206.21	0.0284	0.0142	
Saturn	3058-11-20 02:38 G	2838294.48	2838294.61	2838294.75	0.0285	0.0021	
Moon	3058-11-23 18:28 G	2838298.16	2838298.27	2838298.38	0.2681	0.0276	
Earth	3058-11-23 18:14 G	2838298.16	2838298.26	2838298.37	0.2688	0.0208	*
Venus	3059-02-16 02:38 G	2838382.51	2838382.61	2838382.72	0.3679	0.0200	
Saturn	3059-02-16 15:07 G	2838383.01	2838383.13	2838383.26	0.0285	0.0104	
Mars	3059-02-18 22:33 G	2838385.37	2838385.44	2838385.52	0.1846	0.1419	
Saturn	3059-05-16 03:35 G	2838471.57	2838471.65	2838471.73	0.0286	0.0224	

Mars	3060-03-15 11:31 G	2838775.81	2838775.98	2838776.14	0.1698	0.0093
Mars	3061-01-24 10:48 G	2839090.86	2839090.95	2839091.03	0.1818	0.1234
Jupiter	3061-11-18 09:35 G	2839388.73	2839388.90	2839389.08	0.0490	0.0097
Venus	3064-08-31 19:11 G	2840406.20	2840406.30	2840406.40	0.3680	0.1198
Jupiter	3067-07-24 15:35 G	2841463.03	2841463.15	2841463.27	0.0538	0.0207
Jupiter	3067-10-22 00:14 G	2841552.43	2841552.51	2841552.59	0.0536	0.0408
Uranus	3069-02-08 14:52 G	2842028.06	2842028.12	2842028.20	0.0144	0.0134
Uranus	3069-05-07 22:48 G	2842116.33	2842116.45	2842116.59	0.0144	0.0104
Uranus	3069-08-04 06:57 G	2842204.63	2842204.79	2842204.95	0.0144	0.0074
Mars	3069-08-05 11:31 G	2842205.84	2842205.98	2842206.12	0.1692	0.0932
Uranus	3069-10-31 14:38 G	2842292.94	2842293.11	2842293.30	0.0144	0.0045
Uranus	3070-01-27 22:48 G	2842381.26	2842381.45	2842381.64	0.0144	0.0015
Venus	3070-03-17 11:45 G	2842429.91	2842429.99	2842430.07	0.3681	0.2507
Uranus	3070-04-26 06:43 G	2842469.59	2842469.78	2842469.97	0.0144	0.0015
Mars	3070-06-16 19:55 G	2842521.22	2842521.33	2842521.44	0.1825	0.0619
Uranus	3070-07-23 14:52 G	2842557.94	2842558.12	2842558.30	0.0144	0.0045
Uranus	3070-10-19 22:48 G	2842646.29	2842646.45	2842646.62	0.0143	0.0075
Uranus	3071-01-16 06:57 G	2842734.66	2842734.79	2842734.92	0.0143	0.0105
Uranus	3071-04-14 14:38 G	2842823.07	2842823.11	2842823.19	0.0143	0.0136
Moon	3071-11-26 11:31 G	2843048.89	2843048.98	2843049.08	0.2684	0.1452
Earth	3071-11-26 12:00 G	2843048.92	2843049.00	2843049.09	0.2690	0.1575 *
Saturn	3072-06-19 06:28 G	2843254.62	2843254.77	2843254.91	0.0276	0.0155
Saturn	3072-09-16 02:09 G	2843343.41	2843343.59	2843343.76	0.0275	0.0014
Saturn	3072-12-13 21:50 G	2843432.26	2843432.41	2843432.57	0.0275	0.0132
Jupiter	3073-09-06 08:38 G	2843698.68	2843698.86	2843699.04	0.0490	0.0062
Earth	3078-11-19 11:31 G	2845598.93	2845598.98	2845599.04	0.2685	0.2336
Moon	3078-11-19 12:14 G	2845598.96	2845599.01	2845599.07	0.2686	0.2254 *
Jupiter	3079-05-12 18:14 G	2845773.16	2845773.26	2845773.35	0.0538	0.0379
Jupiter	3079-08-10 03:07 G	2845862.51	2845862.63	2845862.74	0.0537	0.0244
Mars	3079-11-07 05:02 G	2845951.59	2845951.71	2845951.82	0.1832	0.0065

Jupiter 3085-06-25 07:26 G 2848008.66 2848008.81 2848008.97 0.0489 0.0224

Jupiter 3085-09-23 11:02 G 2848098.88 2848098.96 2848099.04 0.0490 0.0437

Saturn 3088-01-10 17:16 G 2848938.11 2848938.22 2848938.33 0.0284 0.0166

Saturn 3088-04-08 06:00 G 2849026.61 2849026.75 2849026.89 0.0285 0.0043

Moon 3088-05-18 17:45 G 2849067.17 2849067.24 2849067.30 0.2648 0.2414

Earth 3088-05-18 19:11 G 2849067.22 2849067.30 2849067.38 0.2646 0.2217 *

Saturn 3088-07-05 18:28 G 2849115.14 2849115.27 2849115.41 0.0285 0.0080

Saturn 3088-10-02 06:57 G 2849203.70 2849203.79 2849203.89 0.0286 0.0201

Mars 3089-03-29 13:55 G 2849381.97 2849382.08 2849382.19 0.1839 0.0680

Mars 3090-04-24 12:43 G 2849772.89 2849773.03 2849773.17 0.1705 0.0907

Jupiter 3091-05-29 06:28 G 2850172.64 2850172.77 2850172.90 0.0537 0.0091

Earth 3091-11-22 05:31 G 2850349.62 2850349.73 2850349.83 0.2687 0.0933

Moon 3091-11-22 06:00 G 2850349.64 2850349.75 2850349.85 0.2681 0.0819 *

Jupiter 3097-04-13 05:31 G 2852318.63 2852318.73 2852318.84 0.0489 0.0395

Jupiter 3097-07-12 08:38 G 2852408.70 2852408.86 2852409.01 0.0490 0.0256

Mars 3098-08-19 22:33 G 2852812.36 2852812.44 2852812.52 0.1846 0.1362

Mars 3099-09-14 12:14 G 2853202.84 2853203.01 2853203.17 0.1698 0.0018

Mars 3100-07-26 10:48 G 2853517.87 2853517.95 2853518.03 0.1818 0.1294

Venus 3100-08-24 13:40 G 2853547.02 2853547.07 2853547.12 0.3693 0.3444

Moon 3101-05-23 00:57 G 2853818.39 2853818.54 2853818.69 0.2651 0.0534

Earth 3101-05-23 01:40 G 2853818.42 2853818.57 2853818.73 0.2645 0.0592 *

Saturn 3101-11-07 08:09 G 2853986.71 2853986.84 2853986.98 0.0277 0.0180

Saturn 3102-02-04 03:50 G 2854075.48 2854075.66 2854075.83 0.0276 0.0038

Saturn 3102-05-03 23:31 G 2854164.32 2854164.48 2854164.65 0.0275 0.0106

Saturn 3102-07-31 19:40 G 2854253.25 2854253.32 2854253.39 0.0274 0.0251

Jupiter 3103-03-18 10:19 G 2854482.80 2854482.93 2854483.06 0.0538 0.0058

Venus 3104-08-24 14:52 G 2855008.04 2855008.12 2855008.20 0.3678 0.2488

Moon 3104-11-24 23:16 G 2855100.36 2855100.47 2855100.58 0.2682 0.0431

Earth 3104-11-24 23:16 G 2855100.36 2855100.47 2855100.57 0.2688 0.0486 *

Venus 3106-03-10 17:31 G 2855571.09 2855571.23 2855571.37 0.3692 0.0463

Neptune 3109-01-29 23:45 G 2856627.46 2856627.49 2856627.56 0.0088 0.0084

Mars 3109-02-04 12:14 G 2856632.87 2856633.01 2856633.15 0.1692 0.0839

Neptune 3109-04-28 02:52 G 2856715.54 2856715.62 2856715.72 0.0088 0.0075

Jupiter 3109-05-01 07:11 G 2856718.63 2856718.80 2856718.98 0.0490 0.0092

Neptune 3109-07-25 06:00 G 2856803.64 2856803.75 2856803.88 0.0088 0.0066

Neptune 3109-10-21 09:07 G 2856891.75 2856891.88 2856892.02 0.0088 0.0057

Mars 3109-12-16 19:55 G 2856948.22 2856948.33 2856948.44 0.1825 0.0674

Neptune 3110-01-17 11:45 G 2856979.86 2856979.99 2856980.16 0.0088 0.0049

Venus 3110-03-10 07:40 G 2857031.72 2857031.82 2857031.93 0.3679 0.1090

Neptune 3110-04-15 14:52 G 2857067.97 2857068.12 2857068.30 0.0088 0.0040

Neptune 3110-07-12 18:00 G 2857156.09 2857156.25 2857156.43 0.0088 0.0031

Neptune 3110-10-08 21:07 G 2857244.21 2857244.38 2857244.57 0.0088 0.0022

Neptune 3111-01-05 00:14 G 2857332.33 2857332.51 2857332.70 0.0088 0.0013

Neptune 3111-04-03 03:21 G 2857420.46 2857420.64 2857420.83 0.0088 0.0004

Neptune 3111-06-30 06:28 G 2857508.59 2857508.77 2857508.96 0.0088 0.0006

Venus 3111-09-24 22:04 G 2857595.33 2857595.42 2857595.52 0.3691 0.2735

Neptune 3111-09-26 09:35 G 2857596.72 2857596.90 2857597.08 0.0088 0.0015

Neptune 3111-12-23 12:43 G 2857684.85 2857685.03 2857685.21 0.0088 0.0024

Neptune 3112-03-20 15:35 G 2857772.99 2857773.15 2857773.33 0.0088 0.0034

Uranus 3112-05-12 07:40 G 2857825.77 2857825.82 2857825.87 0.0134 0.0124

Neptune 3112-06-16 18:43 G 2857861.13 2857861.28 2857861.45 0.0088 0.0043

Uranus 3112-08-08 10:48 G 2857913.88 2857913.95 2857914.04 0.0134 0.0107

Neptune 3112-09-12 21:50 G 2857949.27 2857949.41 2857949.57 0.0088 0.0052

Uranus 3112-11-04 14:09 G 2858001.99 2858002.09 2858002.19 0.0134 0.0090

Neptune 3112-12-10 01:11 G 2858037.42 2858037.55 2858037.69 0.0088 0.0061

Uranus 3113-01-31 17:16 G 2858090.11 2858090.22 2858090.34 0.0134 0.0072

Neptune 3113-03-08 04:19 G 2858125.58 2858125.68 2858125.80 0.0088 0.0070

Uranus 3113-04-29 20:38 G 2858178.23 2858178.36 2858178.48 0.0134 0.0055

Neptune 3113-06-04 07:11 G 2858213.74 2858213.80 2858213.89 0.0088 0.0080

Uranus 3113-07-26 23:45 G 2858266.36 2858266.49 2858266.62 0.0135 0.0037

Uranus 3113-10-23 02:52 G 2858354.49 2858354.62 2858354.75 0.0135 0.0020

Uranus 3114-01-19 06:00 G 2858442.62 2858442.75 2858442.89 0.0135 0.0004

Uranus 3114-04-17 09:07 G 2858530.75 2858530.88 2858531.02 0.0135 0.0016

Uranus 3114-07-14 12:14 G 2858618.89 2858619.01 2858619.15 0.0135 0.0033

Uranus 3114-10-10 15:21 G 2858707.02 2858707.14 2858707.27 0.0135 0.0050

Jupiter 3115-01-04 13:55 G 2858792.96 2858793.08 2858793.20 0.0538 0.0210

Uranus 3115-01-06 18:28 G 2858795.16 2858795.27 2858795.39 0.0135 0.0067

Jupiter 3115-04-03 22:33 G 2858882.36 2858882.44 2858882.52 0.0537 0.0407

Uranus 3115-04-04 21:50 G 2858883.31 2858883.41 2858883.51 0.0135 0.0084

Uranus 3115-07-02 00:57 G 2858971.45 2858971.54 2858971.63 0.0135 0.0101

Venus 3115-09-24 00:28 G 2859055.41 2859055.52 2859055.63 0.3679 0.0288

Uranus 3115-09-28 04:04 G 2859059.61 2859059.67 2859059.73 0.0135 0.0119

Saturn 3117-05-30 18:28 G 2859670.18 2859670.27 2859670.37 0.0283 0.0207

Saturn 3117-08-27 07:11 G 2859758.67 2859758.80 2859758.94 0.0284 0.0085

Saturn 3117-11-23 19:55 G 2859847.19 2859847.33 2859847.46 0.0285 0.0038

Moon 3117-11-27 16:19 G 2859851.10 2859851.18 2859851.26 0.2684 0.1849

Earth 3117-11-27 16:48 G 2859851.13 2859851.20 2859851.28 0.2690 0.1861 *

Saturn 3118-02-20 08:09 G 2859935.74 2859935.84 2859935.96 0.0286 0.0160

Saturn 3118-05-19 20:38 G 2860024.34 2860024.36 2860024.39 0.0286 0.0280

Mars 3118-06-27 12:43 G 2860063.01 2860063.03 2860063.05 0.1685 0.1663

Mars 3119-05-09 05:02 G 2860378.60 2860378.71 2860378.83 0.1832 0.0053

Jupiter 3121-02-17 06:00 G 2861028.58 2861028.75 2861028.93 0.0490 0.0070

Venus 3121-04-08 17:02 G 2861079.11 2861079.21 2861079.30 0.3680 0.1624

Earth 3124-11-20 16:19 G 2862401.11 2862401.18 2862401.25 0.2685 0.2047

Moon 3124-11-20 17:02 G 2862401.14 2862401.21 2862401.29 0.2685 0.1950 *

Venus 3126-10-23 09:21 G 2863102.83 2863102.89 2863102.96 0.3681 0.2932

Jupiter 3126-10-23 17:16 G 2863103.12 2863103.22 2863103.31 0.0538 0.0368

Jupiter 3127-01-21 02:09 G 2863192.48 2863192.59 2863192.70 0.0537 0.0256

Mars 3128-09-28 13:55 G 2863808.97 2863809.08 2863809.19 0.1839 0.0617

Mars 3129-10-24 13:11 G 2864199.91 2864200.05 2864200.18 0.1705 0.0990

Saturn	3131-03-27 07:11	G	2864718.71	2864718.80	2864718.90	0.0277	0.0227
Saturn	3131-06-24 02:52	G	2864807.45	2864807.62	2864807.78	0.0276	0.0085
Saturn	3131-09-20 22:33	G	2864896.27	2864896.44	2864896.61	0.0275	0.0059
Saturn	3131-12-18 18:28	G	2864985.15	2864985.27	2864985.39	0.0275	0.0203
Jupiter	3132-12-06 05:16	G	2865338.56	2865338.72	2865338.88	0.0489	0.0227
Jupiter	3133-03-06 08:52	G	2865428.79	2865428.87	2865428.95	0.0491	0.0434
Moon	3134-05-21 00:28	G	2865869.41	2865869.52	2865869.62	0.2650	0.1894
Earth	3134-05-21 01:40	G	2865869.45	2865869.57	2865869.69	0.2646	0.1675 *
Earth	3137-11-23 10:19	G	2867151.82	2867151.93	2867152.03	0.2687	0.0640
Moon	3137-11-23 10:48	G	2867151.84	2867151.95	2867152.05	0.2681	0.0595 *
Mars	3138-02-18 22:33	G	2867239.36	2867239.44	2867239.53	0.1846	0.1290
Jupiter	3138-11-09 05:02	G	2867502.58	2867502.71	2867502.84	0.0537	0.0091
Mars	3139-03-16 12:57	G	2867629.88	2867630.04	2867630.21	0.1699	0.0113
Mars	3140-01-25 10:48	G	2867944.87	2867944.95	2867945.02	0.1818	0.1357
Jupiter	3144-09-24 04:19	G	2869648.57	2869648.68	2869648.79	0.0489	0.0385
Jupiter	3144-12-23 07:11	G	2869738.66	2869738.80	2869738.96	0.0490	0.0267
Saturn	3146-10-17 21:21	G	2870402.31	2870402.39	2870402.47	0.0283	0.0234
Saturn	3147-01-14 10:04	G	2870490.80	2870490.92	2870491.05	0.0284	0.0112
Saturn	3147-04-12 22:48	G	2870579.31	2870579.45	2870579.59	0.0285	0.0011
Moon	3147-05-24 07:40	G	2870620.67	2870620.82	2870620.96	0.2650	0.1012
Earth	3147-05-24 08:24	G	2870620.71	2870620.85	2870620.99	0.2644	0.1146 *
Saturn	3147-07-10 11:16	G	2870667.85	2870667.97	2870668.09	0.0286	0.0133
Saturn	3147-10-06 23:31	G	2870756.43	2870756.48	2870756.55	0.0286	0.0255
Mars	3148-08-05 12:57	G	2871059.89	2871060.04	2871060.19	0.1692	0.0746
Mars	3149-06-16 19:55	G	2871375.23	2871375.33	2871375.44	0.1825	0.0744
Jupiter	3150-08-28 08:24	G	2871812.72	2871812.85	2871812.98	0.0538	0.0066
Moon	3150-11-26 03:50	G	2871902.56	2871902.66	2871902.77	0.2682	0.0786
Earth	3150-11-26 04:04	G	2871902.56	2871902.67	2871902.77	0.2688	0.0768 *
Uranus	3153-03-01 23:02	G	2872729.37	2872729.46	2872729.55	0.0144	0.0124
Uranus	3153-05-29 06:43	G	2872817.65	2872817.78	2872817.93	0.0144	0.0095

Uranus 3153-08-25 14:38 G 2872905.95 2872906.11 2872906.28 0.0144 0.0066

Uranus 3153-11-21 22:33 G 2872994.26 2872994.44 2872994.63 0.0144 0.0036

Uranus 3154-02-18 06:43 G 2873082.59 2873082.78 2873082.97 0.0144 0.0006

Uranus 3154-05-17 14:38 G 2873170.93 2873171.11 2873171.30 0.0144 0.0024

Uranus 3154-08-13 22:33 G 2873259.27 2873259.44 2873259.62 0.0144 0.0054

Uranus 3154-11-10 06:43 G 2873347.63 2873347.78 2873347.94 0.0143 0.0084

Uranus 3155-02-06 14:52 G 2873436.01 2873436.12 2873436.24 0.0143 0.0114

Venus 3155-09-15 19:40 G 2873657.29 2873657.32 2873657.36 0.3677 0.3449

Jupiter 3156-10-11 05:02 G 2874048.54 2874048.71 2874048.89 0.0490 0.0090

Venus 3157-03-31 14:24 G 2874220.00 2874220.10 2874220.20 0.3692 0.2533

Mars 3157-12-26 13:26 G 2874490.00 2874490.06 2874490.12 0.1686 0.1571

Mars 3158-11-07 05:02 G 2874805.59 2874805.71 2874805.82 0.1832 0.0104

Saturn 3160-08-13 08:52 G 2875450.81 2875450.87 2875450.95 0.0277 0.0253

Saturn 3160-11-10 04:19 G 2875539.53 2875539.68 2875539.84 0.0276 0.0112

Saturn 3161-02-07 00:00 G 2875628.33 2875628.50 2875628.68 0.0276 0.0032

Venus 3161-03-31 12:43 G 2875680.94 2875681.03 2875681.12 0.3678 0.2023

Saturn 3161-05-06 19:55 G 2875717.20 2875717.33 2875717.47 0.0275 0.0176

Jupiter 3162-06-16 12:00 G 2876122.88 2876123.00 2876123.12 0.0539 0.0218

Jupiter 3162-09-13 20:38 G 2876212.28 2876212.36 2876212.45 0.0537 0.0402

Venus 3162-10-15 18:28 G 2876244.12 2876244.27 2876244.41 0.3691 0.0518

Moon 3163-11-28 21:07 G 2876653.31 2876653.38 2876653.45 0.2685 0.2008

Earth 3163-11-28 21:35 G 2876653.34 2876653.40 2876653.47 0.2690 0.2147 *

Venus 3166-10-15 05:31 G 2877704.63 2877704.73 2877704.84 0.3679 0.0632

Mars 3168-03-29 13:55 G 2878235.97 2878236.08 2878236.19 0.1839 0.0552

Jupiter 3168-07-30 04:04 G 2878358.49 2878358.67 2878358.84 0.0489 0.0071

Mars 3169-04-24 14:09 G 2878626.96 2878627.09 2878627.21 0.1705 0.1098

Earth 3170-11-21 21:07 G 2879203.30 2879203.38 2879203.47 0.2685 0.1758

Moon 3170-11-21 21:50 G 2879203.33 2879203.41 2879203.50 0.2683 0.1625 *

Venus 3172-04-29 22:19 G 2879728.32 2879728.43 2879728.53 0.3680 0.0744

Jupiter 3174-04-04 15:50 G 2880433.06 2880433.16 2880433.25 0.0539 0.0369

Jupiter 3174-07-03 00:43 G 2880522.42 2880522.53 2880522.64 0.0537 0.0256

Saturn 3176-03-05 22:19 G 2881134.41 2881134.43 2881134.46 0.0283 0.0277

Saturn 3176-06-02 11:16 G 2881222.86 2881222.97 2881223.09 0.0283 0.0154

Saturn 3176-08-30 00:00 G 2881311.36 2881311.50 2881311.64 0.0284 0.0032

Saturn 3176-11-26 12:28 G 2881399.89 2881400.02 2881400.15 0.0285 0.0090

Saturn 3177-02-23 00:57 G 2881488.45 2881488.54 2881488.63 0.0286 0.0211

Mars 3177-08-19 22:48 G 2881666.36 2881666.45 2881666.53 0.1846 0.1222

Venus 3177-11-13 14:38 G 2881752.03 2881752.11 2881752.20 0.3680 0.2060

Mars 3178-09-14 13:26 G 2882056.90 2882057.06 2882057.23 0.1698 0.0204

Mars 3179-07-26 10:48 G 2882371.88 2882371.95 2882372.02 0.1818 0.1421

Jupiter 3180-05-18 02:52 G 2882668.47 2882668.62 2882668.78 0.0489 0.0231

Moon 3180-05-21 06:57 G 2882671.65 2882671.79 2882671.93 0.2651 0.1223

Earth 3180-05-21 08:24 G 2882671.70 2882671.85 2882671.99 0.2646 0.1134 *

Jupiter 3180-08-16 06:28 G 2882758.69 2882758.77 2882758.85 0.0490 0.0429

Venus 3183-05-30 07:11 G 2883775.76 2883775.80 2883775.84 0.3681 0.3353

Earth 3183-11-24 15:07 G 2883954.02 2883954.13 2883954.24 0.2687 0.0348

Moon 3183-11-24 15:35 G 2883954.04 2883954.15 2883954.26 0.2682 0.0292 *

Jupiter 3186-01-21 18:57 G 2884743.27 2884743.29 2884743.32 0.0539 0.0527

Jupiter 3186-04-21 04:19 G 2884832.55 2884832.68 2884832.81 0.0537 0.0104

Pluto 3186-08-02 05:02 G 2884935.68 2884935.71 2884935.76 0.0071 0.0067

Pluto 3186-10-29 06:00 G 2885023.68 2885023.75 2885023.83 0.0071 0.0059

Pluto 3187-01-25 06:43 G 2885111.69 2885111.78 2885111.89 0.0071 0.0050

Pluto 3187-04-23 07:26 G 2885199.71 2885199.81 2885199.94 0.0071 0.0042

Pluto 3187-07-20 08:24 G 2885287.74 2885287.85 2885287.99 0.0072 0.0033

Pluto 3187-10-16 09:21 G 2885375.77 2885375.89 2885376.03 0.0072 0.0024

Pluto 3188-01-12 10:19 G 2885463.80 2885463.93 2885464.07 0.0072 0.0014

Mars 3188-02-04 13:26 G 2885486.91 2885487.06 2885487.21 0.1692 0.0663

Pluto 3188-04-09 11:16 G 2885551.83 2885551.97 2885552.11 0.0072 0.0005

Pluto 3188-07-06 12:14 G 2885639.87 2885640.01 2885640.15 0.0072 0.0004

Pluto 3188-10-02 13:11 G 2885727.91 2885728.05 2885728.19 0.0072 0.0013

Mars 3188-12-15 19:55 G 2885802.23 2885802.33 2885802.44 0.1825 0.0808

Pluto 3188-12-29 13:55 G 2885815.95 2885816.08 2885816.22 0.0072 0.0023

Pluto 3189-03-27 14:38 G 2885904.00 2885904.11 2885904.25 0.0072 0.0033

Pluto 3189-06-23 15:35 G 2885992.05 2885992.15 2885992.28 0.0073 0.0042

Pluto 3189-09-19 16:48 G 2886080.10 2886080.20 2886080.30 0.0073 0.0051

Pluto 3189-12-16 17:31 G 2886168.17 2886168.23 2886168.32 0.0073 0.0061

Pluto 3190-03-14 18:14 G 2886256.25 2886256.26 2886256.31 0.0073 0.0071

Saturn 3190-03-30 02:38 G 2886271.48 2886271.61 2886271.76 0.0277 0.0164

Saturn 3190-06-26 22:19 G 2886360.26 2886360.43 2886360.61 0.0276 0.0021

Saturn 3190-09-23 18:14 G 2886449.10 2886449.26 2886449.42 0.0275 0.0124

Saturn 3190-12-21 14:09 G 2886538.07 2886538.09 2886538.13 0.0274 0.0269

Neptune 3191-02-11 08:09 G 2886589.81 2886589.84 2886589.87 0.0089 0.0087

Neptune 3191-05-10 09:35 G 2886677.84 2886677.90 2886677.97 0.0089 0.0080

Neptune 3191-08-06 11:02 G 2886765.89 2886765.96 2886766.05 0.0089 0.0073

Neptune 3191-11-02 12:57 G 2886853.94 2886854.04 2886854.13 0.0089 0.0065

Neptune 3192-01-29 14:09 G 2886942.00 2886942.09 2886942.21 0.0089 0.0058

Jupiter 3192-03-06 02:24 G 2886978.49 2886978.60 2886978.70 0.0489 0.0385

Neptune 3192-04-26 15:50 G 2887030.05 2887030.16 2887030.28 0.0089 0.0050

Jupiter 3192-06-04 05:16 G 2887068.57 2887068.72 2887068.87 0.0490 0.0268

Neptune 3192-07-23 17:31 G 2887118.11 2887118.23 2887118.35 0.0089 0.0043

Neptune 3192-10-19 18:57 G 2887206.17 2887206.29 2887206.42 0.0089 0.0036

Neptune 3193-01-15 20:24 G 2887294.23 2887294.35 2887294.49 0.0089 0.0029

Neptune 3193-04-13 22:04 G 2887382.29 2887382.42 2887382.56 0.0089 0.0021

Moon 3193-05-24 14:24 G 2887422.98 2887423.10 2887423.22 0.2650 0.1636

Earth 3193-05-24 14:52 G 2887423.00 2887423.12 2887423.24 0.2644 0.1698 *

Neptune 3193-07-10 23:31 G 2887470.35 2887470.48 2887470.62 0.0089 0.0014

Neptune 3193-10-07 01:11 G 2887558.41 2887558.55 2887558.69 0.0089 0.0007

Neptune 3194-01-03 02:38 G 2887646.47 2887646.61 2887646.75 0.0089 0.0001

Neptune 3194-04-01 04:04 G 2887734.54 2887734.67 2887734.81 0.0089 0.0008

Neptune 3194-06-28 05:31 G 2887822.60 2887822.73 2887822.87 0.0089 0.0016

Neptune 3194-09-24 07:11 G 2887910.67 2887910.80 2887910.93 0.0089 0.0022

Neptune 3194-12-21 08:38 G 2887998.73 2887998.86 2887998.99 0.0089 0.0029

Neptune 3195-03-19 10:04 G 2888086.80 2888086.92 2888087.05 0.0089 0.0037

Neptune 3195-06-15 11:31 G 2888174.87 2888174.98 2888175.11 0.0089 0.0044

Neptune 3195-09-11 13:11 G 2888262.94 2888263.05 2888263.16 0.0089 0.0051

Neptune 3195-12-08 14:38 G 2888351.01 2888351.11 2888351.21 0.0089 0.0058

Neptune 3196-03-05 16:04 G 2888439.08 2888439.17 2888439.26 0.0089 0.0065

Uranus 3196-06-01 15:21 G 2888527.09 2888527.14 2888527.21 0.0134 0.0118

Neptune 3196-06-01 17:31 G 2888527.15 2888527.23 2888527.31 0.0089 0.0072 *

Uranus 3196-08-28 18:28 G 2888615.20 2888615.27 2888615.37 0.0134 0.0101

Neptune 3196-08-28 18:57 G 2888615.23 2888615.29 2888615.35 0.0089 0.0079 *

Uranus 3196-11-24 21:50 G 2888703.31 2888703.41 2888703.52 0.0134 0.0083

Neptune 3196-11-24 20:09 G 2888703.32 2888703.34 2888703.39 0.0089 0.0086 *

Moon 3196-11-26 08:38 G 2888704.76 2888704.86 2888704.96 0.2682 0.0988

Earth 3196-11-26 08:52 G 2888704.77 2888704.87 2888704.97 0.2689 0.1055 *

Uranus 3197-02-21 00:57 G 2888791.43 2888791.54 2888791.67 0.0134 0.0066

Uranus 3197-05-20 04:19 G 2888879.56 2888879.68 2888879.81 0.0135 0.0048

Mars 3197-06-26 14:09 G 2888917.02 2888917.09 2888917.17 0.1686 0.1477

Uranus 3197-08-16 07:26 G 2888967.69 2888967.81 2888967.95 0.0135 0.0031

Uranus 3197-11-12 10:48 G 2889055.82 2889055.95 2889056.08 0.0135 0.0013

Jupiter 3198-02-07 07:11 G 2889142.67 2889142.80 2889142.93 0.0538 0.0060

Uranus 3198-02-08 13:55 G 2889143.95 2889144.08 2889144.22 0.0135 0.0005

Uranus 3198-05-07 17:02 G 2889232.08 2889232.21 2889232.35 0.0135 0.0022

Mars 3198-05-08 05:02 G 2889232.60 2889232.71 2889232.83 0.1832 0.0169

Uranus 3198-08-03 20:09 G 2889320.22 2889320.34 2889320.47 0.0135 0.0040

Uranus 3198-10-30 23:16 G 2889408.36 2889408.47 2889408.60 0.0135 0.0057

Uranus 3199-01-27 02:24 G 2889496.50 2889496.60 2889496.72 0.0135 0.0074

Uranus 3199-04-25 05:31 G 2889584.64 2889584.73 2889584.83 0.0135 0.0092

Uranus 3199-07-22 08:52 G 2889672.79 2889672.87 2889672.95 0.0135 0.0109

Uranus 3199-10-18 12:00 G 2889760.95 2889761.00 2889761.04 0.0135 0.0126

Jupiter 3204-03-23 04:04 G 2891378.49 2891378.67 2891378.84 0.0490 0.0103

Saturn 3205-10-20 13:40 G 2891954.97 2891955.07 2891955.17 0.0284 0.0185

Saturn 3206-01-17 02:24 G 2892043.47 2892043.60 2892043.74 0.0284 0.0062

Saturn 3206-04-15 15:07 G 2892131.99 2892132.13 2892132.26 0.0285 0.0060

Saturn 3206-07-13 03:21 G 2892220.54 2892220.64 2892220.75 0.0286 0.0181

Mars 3207-09-28 13:55 G 2892662.97 2892663.08 2892663.20 0.1839 0.0489

Mars 3208-10-23 14:52 G 2893054.00 2893054.12 2893054.23 0.1705 0.1192

Jupiter 3209-11-26 10:33 G 2893452.82 2893452.94 2893453.06 0.0538 0.0219

Moon 3209-11-29 01:55 G 2893455.53 2893455.58 2893455.62 0.2687 0.2397

Earth 3209-11-29 02:24 G 2893455.56 2893455.60 2893455.65 0.2690 0.2431 *

Jupiter 3210-02-23 19:11 G 2893542.21 2893542.30 2893542.38 0.0537 0.0399

Venus 3212-04-21 17:45 G 2894330.17 2894330.24 2894330.30 0.3677 0.2972

Venus 3213-11-05 15:07 G 2894893.00 2894893.13 2894893.26 0.3692 0.1601

Jupiter 3216-01-10 02:09 G 2895688.41 2895688.59 2895688.76 0.0489 0.0070

Earth 3216-11-22 02:09 G 2896005.49 2896005.59 2896005.68 0.2686 0.1458

Moon 3216-11-22 02:38 G 2896005.52 2896005.61 2896005.71 0.2682 0.1408 *

Mars 3217-02-17 22:48 G 2896093.36 2896093.45 2896093.54 0.1846 0.1161

Venus 3217-11-05 10:33 G 2896353.84 2896353.94 2896354.04 0.3678 0.1560

Mars 3218-03-15 14:24 G 2896483.93 2896484.10 2896484.26 0.1699 0.0299

Mars 3219-01-24 10:48 G 2896798.88 2896798.95 2896799.01 0.1818 0.1481

Venus 3219-05-22 19:26 G 2896917.18 2896917.31 2896917.44 0.3691 0.1503

Saturn 3219-08-17 04:04 G 2897003.55 2897003.67 2897003.80 0.0277 0.0192

Saturn 3219-11-13 23:45 G 2897092.32 2897092.49 2897092.66 0.0276 0.0049

Saturn 3220-02-10 19:26 G 2897181.15 2897181.31 2897181.48 0.0275 0.0095

Saturn 3220-05-09 15:21 G 2897270.06 2897270.14 2897270.23 0.0275 0.0240

Jupiter 3221-09-14 13:55 G 2897762.99 2897763.08 2897763.17 0.0539 0.0374

Jupiter 3221-12-12 23:02 G 2897852.34 2897852.46 2897852.57 0.0538 0.0253

Venus 3223-05-22 03:21 G 2898377.53 2898377.64 2898377.75 0.3679 0.0176

Moon 3226-05-22 13:40 G 2899473.92 2899474.07 2899474.21 0.2651 0.0829

Earth 3226-05-22 14:52 G 2899473.97 2899474.12 2899474.27 0.2646 0.0575 *

Mars 3226-07-11 07:11 G 2899523.80 2899523.80 2899523.80 0.1853 0.1851

Mars 3227-08-05 14:24 G 2899913.94 2899914.10 2899914.25 0.1692 0.0565

Jupiter 3227-10-29 01:11 G 2899998.39 2899998.55 2899998.71 0.0489 0.0227

Jupiter 3228-01-27 04:33 G 2900088.61 2900088.69 2900088.78 0.0490 0.0431

Mars 3228-06-15 19:55 G 2900229.23 2900229.33 2900229.43 0.1825 0.0867

Venus 3228-12-04 19:55 G 2900401.23 2900401.33 2900401.43 0.3680 0.1174

Earth 3229-11-24 19:55 G 2900756.22 2900756.33 2900756.44 0.2687 0.0058

Moon 3229-11-24 20:09 G 2900756.23 2900756.34 2900756.45 0.2681 0.0006 *

Jupiter 3233-07-03 17:31 G 2902073.20 2902073.23 2902073.26 0.0539 0.0525

Jupiter 3233-10-01 02:52 G 2902162.49 2902162.62 2902162.75 0.0538 0.0107

Venus 3234-06-20 12:28 G 2902424.94 2902425.02 2902425.10 0.3681 0.2485

Saturn 3235-03-09 14:52 G 2902687.04 2902687.12 2902687.20 0.0283 0.0228

Saturn 3235-06-06 03:35 G 2902775.52 2902775.65 2902775.78 0.0283 0.0106

Saturn 3235-09-02 16:04 G 2902864.04 2902864.17 2902864.31 0.0284 0.0018

Saturn 3235-11-30 04:33 G 2902952.57 2902952.69 2902952.81 0.0285 0.0137

Saturn 3236-02-26 17:02 G 2903041.15 2903041.21 2903041.27 0.0286 0.0257

Mars 3236-12-25 14:38 G 2903344.02 2903344.11 2903344.20 0.1686 0.1399

Uranus 3237-03-22 06:43 G 2903430.67 2903430.78 2903430.89 0.0144 0.0116

Uranus 3237-06-18 14:24 G 2903518.96 2903519.10 2903519.25 0.0144 0.0087

Uranus 3237-09-14 22:19 G 2903607.26 2903607.43 2903607.61 0.0144 0.0058

Mars 3237-11-06 05:02 G 2903659.60 2903659.71 2903659.83 0.1832 0.0247

Uranus 3237-12-12 06:14 G 2903695.58 2903695.76 2903695.95 0.0144 0.0028

Uranus 3238-03-10 14:24 G 2903783.91 2903784.10 2903784.29 0.0144 0.0003

Uranus 3238-06-06 22:19 G 2903872.25 2903872.43 2903872.61 0.0144 0.0032

Uranus 3238-09-03 06:14 G 2903960.59 2903960.76 2903960.94 0.0143 0.0062

Uranus 3238-11-30 14:24 G 2904048.96 2904049.10 2904049.25 0.0143 0.0092

Uranus 3239-02-26 22:19 G 2904137.34 2904137.43 2904137.54 0.0143 0.0122

Moon 3239-05-25 21:21 G 2904225.32 2904225.39 2904225.47 0.2650 0.2286

Earth 3239-05-25 21:35 G 2904225.32 2904225.40 2904225.48 0.2644 0.2262 *

Jupiter 3239-08-17 00:14 G 2904308.41 2904308.51 2904308.62 0.0489 0.0384

Jupiter 3239-11-15 03:07 G 2904398.49 2904398.63 2904398.79 0.0490 0.0267

Moon 3242-11-27 13:26 G 2905506.96 2905507.06 2905507.15 0.2682 0.1318

Earth 3242-11-27 13:40 G 2905506.97 2905507.07 2905507.16 0.2689 0.1339 *

Jupiter 3245-07-20 06:28 G 2906472.64 2906472.77 2906472.90 0.0538 0.0045

Mars 3247-03-29 14:09 G 2907089.97 2907090.09 2907090.20 0.1839 0.0419

Mars 3248-04-23 15:21 G 2907481.03 2907481.14 2907481.25 0.1705 0.1280

Saturn 3249-01-03 01:55 G 2907735.51 2907735.58 2907735.66 0.0277 0.0247

Saturn 3249-04-01 21:21 G 2907824.23 2907824.39 2907824.55 0.0276 0.0106

Saturn 3249-06-29 17:02 G 2907913.04 2907913.21 2907913.39 0.0276 0.0038

Saturn 3249-09-26 12:57 G 2908001.91 2908002.04 2908002.18 0.0275 0.0183

Earth 3249-11-20 12:57 G 2908057.02 2908057.04 2908057.07 0.2684 0.2580

Moon 3249-11-20 13:40 G 2908057.04 2908057.07 2908057.10 0.2685 0.2544 *

Jupiter 3251-09-03 02:09 G 2908708.42 2908708.59 2908708.77 0.0490 0.0108

Moon 3255-11-30 06:28 G 2910257.75 2910257.77 2910257.80 0.2688 0.2583

Mars 3256-08-18 22:48 G 2910520.35 2910520.45 2910520.54 0.1846 0.1093

Jupiter 3257-05-08 09:21 G 2910782.77 2910782.89 2910783.01 0.0538 0.0210

Jupiter 3257-08-05 18:00 G 2910872.17 2910872.25 2910872.34 0.0537 0.0408

Mars 3257-09-13 15:07 G 2910910.97 2910911.13 2910911.29 0.1699 0.0394

Mars 3258-07-25 10:48 G 2911225.89 2911225.95 2911226.01 0.1817 0.1542

Earth 3262-11-23 06:57 G 2912807.69 2912807.79 2912807.89 0.2686 0.1164

Moon 3262-11-23 07:40 G 2912807.71 2912807.82 2912807.92 0.2683 0.1020 *

Jupiter 3263-06-22 01:11 G 2913018.37 2913018.55 2913018.73 0.0490 0.0054

Saturn 3264-07-26 16:33 G 2913419.15 2913419.19 2913419.25 0.0283 0.0263

Saturn 3264-10-23 05:31 G 2913507.61 2913507.73 2913507.85 0.0284 0.0140

Venus 3264-11-26 12:14 G 2913541.98 2913542.01 2913542.03 0.3693 0.3610

Saturn 3265-01-19 18:14 G 2913596.12 2913596.26 2913596.40 0.0284 0.0018

Saturn 3265-04-18 06:43 G 2913684.66 2913684.78 2913684.91 0.0285 0.0104

Saturn 3265-07-15 19:11 G 2913773.22 2913773.30 2913773.38 0.0286 0.0224

Mars 3266-01-09 07:11 G 2913950.78 2913950.80 2913950.83 0.1852 0.1786

Mars 3267-02-03 14:52 G 2914340.97 2914341.12 2914341.28 0.1692 0.0476

Mars 3267-12-15 19:55 G 2914656.24 2914656.33 2914656.43 0.1825 0.0934

Venus 3268-11-26 15:35 G 2915003.07 2915003.15 2915003.22 0.3678 0.2504

Jupiter 3269-02-24 12:43 G 2915092.93 2915093.03 2915093.12 0.0538 0.0369

Jupiter 3269-05-24 21:35 G 2915182.29 2915182.40 2915182.52 0.0537 0.0256

Venus 3270-06-12 15:50 G 2915566.02 2915566.16 2915566.30 0.3692 0.0660

Pluto 3272-03-25 12:43 G 2916217.96 2916218.03 2916218.13 0.0072 0.0064

Moon 3272-05-22 20:09 G 2916276.18 2916276.34 2916276.49 0.2650 0.0091

Earth 3272-05-22 21:21 G 2916276.23 2916276.39 2916276.55 0.2646 0.0036 *

Pluto 3272-06-21 14:38 G 2916306.00 2916306.11 2916306.25 0.0072 0.0052

Pluto 3272-09-17 16:48 G 2916394.06 2916394.20 2916394.36 0.0072 0.0039

Pluto 3272-12-14 18:43 G 2916482.12 2916482.28 2916482.46 0.0072 0.0028

Pluto 3273-03-12 20:52 G 2916570.19 2916570.37 2916570.55 0.0072 0.0015

Pluto 3273-06-08 22:48 G 2916658.27 2916658.45 2916658.63 0.0072 0.0004

Pluto 3273-09-05 00:43 G 2916746.35 2916746.53 2916746.71 0.0072 0.0008

Neptune 3273-10-26 21:35 G 2916798.36 2916798.40 2916798.47 0.0088 0.0083

Pluto 3273-12-02 02:24 G 2916834.43 2916834.60 2916834.78 0.0072 0.0020

Neptune 3274-01-23 00:43 G 2916886.44 2916886.53 2916886.63 0.0088 0.0074

Pluto 3274-02-28 04:19 G 2916922.52 2916922.68 2916922.85 0.0072 0.0031

Neptune 3274-04-21 03:35 G 2916974.54 2916974.65 2916974.78 0.0088 0.0065

Pluto 3274-05-27 06:00 G 2917010.62 2917010.75 2917010.90 0.0071 0.0042

Venus 3274-06-12 08:24 G 2917026.75 2917026.85 2917026.95 0.3679 0.1100

Neptune 3274-07-18 06:43 G 2917062.65 2917062.78 2917062.93 0.0088 0.0056

Pluto 3274-08-23 07:55 G 2917098.72 2917098.83 2917098.95 0.0071 0.0054

Neptune 3274-10-14 09:50 G 2917150.76 2917150.91 2917151.07 0.0088 0.0047

Pluto 3274-11-19 09:50 G 2917186.84 2917186.91 2917186.99 0.0071 0.0065

Neptune 3275-01-10 12:57 G 2917238.87 2917239.04 2917239.20 0.0088 0.0038

Neptune 3275-04-08 15:35 G 2917326.99 2917327.15 2917327.34 0.0088 0.0030

Jupiter 3275-04-09 23:31 G 2917328.33 2917328.48 2917328.64 0.0489 0.0222

Neptune 3275-07-05 18:43 G 2917415.11 2917415.28 2917415.47 0.0088 0.0021

Jupiter 3275-07-09 02:52 G 2917418.54 2917418.62 2917418.70 0.0490 0.0436

Neptune 3275-10-01 22:04 G 2917503.24 2917503.42 2917503.60 0.0088 0.0011

Earth 3275-11-26 00:43 G 2917558.42 2917558.53 2917558.64 0.2687 0.0242

Moon 3275-11-26 00:57 G 2917558.43 2917558.54 2917558.65 0.2681 0.0248 *

Venus 3275-12-27 20:24 G 2917590.24 2917590.35 2917590.46 0.3691 0.2495

Neptune 3275-12-29 01:11 G 2917591.36 2917591.55 2917591.73 0.0088 0.0002

Neptune 3276-03-26 04:19 G 2917679.49 2917679.68 2917679.86 0.0088 0.0007

Neptune 3276-06-22 07:11 G 2917767.62 2917767.80 2917767.99 0.0088 0.0016

Mars 3276-06-25 15:35 G 2917771.04 2917771.15 2917771.25 0.1686 0.1300

Neptune 3276-09-18 10:19 G 2917855.76 2917855.93 2917856.11 0.0088 0.0025

Neptune 3276-12-15 13:11 G 2917943.89 2917944.05 2917944.23 0.0088 0.0035

Neptune 3277-03-13 16:19 G 2918032.03 2918032.18 2918032.35 0.0088 0.0044

Mars 3277-05-07 05:02 G 2918086.60 2918086.71 2918086.83 0.1832 0.0305

Neptune 3277-06-09 19:26 G 2918120.18 2918120.31 2918120.47 0.0088 0.0053

Neptune 3277-09-05 22:48 G 2918208.32 2918208.45 2918208.58 0.0088 0.0062

Neptune 3277-12-03 01:40 G 2918296.48 2918296.57 2918296.69 0.0088 0.0072

Neptune 3278-03-01 04:48 G 2918384.65 2918384.70 2918384.79 0.0088 0.0081

Saturn 3278-08-19 22:19 G 2918556.28 2918556.43 2918556.58 0.0277 0.0137

Saturn 3278-11-16 18:00 G 2918645.08 2918645.25 2918645.43 0.0276 0.0007

Saturn 3279-02-13 13:55 G 2918733.93 2918734.08 2918734.23 0.0275 0.0151

Venus 3279-12-27 01:11 G 2919050.44 2919050.55 2919050.65 0.3679 0.0286

Uranus 3280-03-25 19:55 G 2919140.30 2919140.33 2919140.38 0.0134 0.0128

Uranus 3280-06-21 23:16 G 2919228.40 2919228.47 2919228.55 0.0134 0.0110

Uranus 3280-09-18 02:24 G 2919316.51 2919316.60 2919316.71 0.0134 0.0093

Jupiter 3280-12-13 15:50 G 2919403.14 2919403.16 2919403.19 0.0539 0.0528

Uranus 3280-12-15 05:45 G 2919404.63 2919404.74 2919404.86 0.0134 0.0076

Jupiter 3281-03-13 01:26 G 2919492.43 2919492.56 2919492.68 0.0538 0.0107

Uranus 3281-03-13 08:52 G 2919492.76 2919492.87 2919493.00 0.0135 0.0058

Uranus 3281-06-09 12:14 G 2919580.88 2919581.01 2919581.14 0.0135 0.0041

Uranus 3281-09-05 15:21 G 2919669.01 2919669.14 2919669.28 0.0135 0.0024

Uranus 3281-12-02 18:43 G 2919757.14 2919757.28 2919757.41 0.0135 0.0006

Uranus	3282-02-28 21:50 G	2919845.28	2919845.41	2919845.54	0.0135	0.0012
Uranus	3282-05-28 00:57 G	2919933.41	2919933.54	2919933.67	0.0135	0.0029
Uranus	3282-08-24 04:04 G	2920021.55	2920021.67	2920021.80	0.0135	0.0046
Uranus	3282-11-20 07:11 G	2920109.69	2920109.80	2920109.92	0.0135	0.0064
Uranus	3283-02-16 10:19 G	2920197.83	2920197.93	2920198.04	0.0135	0.0081
Uranus	3283-05-15 13:26 G	2920285.97	2920286.06	2920286.15	0.0135	0.0098
Uranus	3283-08-11 16:33 G	2920374.13	2920374.19	2920374.26	0.0135	0.0116
Uranus	3283-11-07 19:40 G	2920462.30	2920462.32	2920462.35	0.0135	0.0133
Venus	3285-07-11 17:45 G	2921074.14	2921074.24	2921074.33	0.3680	0.1605
Mars	3286-09-27 14:09 G	2921516.97	2921517.09	2921517.20	0.1839	0.0361
Jupiter	3287-01-26 23:02 G	2921638.35	2921638.46	2921638.57	0.0489	0.0375
Jupiter	3287-04-27 01:40 G	2921728.43	2921728.57	2921728.72	0.0490	0.0274
Mars	3287-10-23 16:04 G	2921908.08	2921908.17	2921908.27	0.1706	0.1384
Moon	3288-11-27 18:00 G	2922309.17	2922309.25	2922309.34	0.2683	0.1579
Earth	3288-11-27 18:28 G	2922309.18	2922309.27	2922309.35	0.2689	0.1629 *
Venus	3291-01-25 10:04 G	2923097.86	2923097.92	2923097.99	0.3681	0.2909
Jupiter	3292-12-30 05:16 G	2923802.59	2923802.72	2923802.85	0.0538	0.0042
Saturn	3294-03-12 06:28 G	2924239.67	2924239.77	2924239.88	0.0283	0.0184
Saturn	3294-06-08 19:11 G	2924328.17	2924328.30	2924328.44	0.0283	0.0063
Saturn	3294-09-05 07:55 G	2924416.69	2924416.83	2924416.96	0.0284	0.0059
Saturn	3294-12-02 20:09 G	2924505.24	2924505.34	2924505.45	0.0285	0.0180
Earth	3295-11-21 18:00 G	2924859.19	2924859.25	2924859.30	0.2684	0.2290
Moon	3295-11-21 18:43 G	2924859.21	2924859.28	2924859.34	0.2684	0.2126 *
Mars	3296-02-17 22:48 G	2924947.36	2924947.45	2924947.55	0.1845	0.1022
Mars	3297-03-14 15:35 G	2925337.99	2925338.15	2925338.31	0.1699	0.0478
Mars	3298-01-23 10:48 G	2925652.90	2925652.95	2925653.00	0.1818	0.1610
Jupiter	3299-02-13 00:28 G	2926038.35	2926038.52	2926038.70	0.0490	0.0111
Jupiter	3304-10-19 08:52 G	2928112.75	2928112.87	2928112.99	0.0538	0.0193
Jupiter	3305-01-16 17:31 G	2928202.15	2928202.23	2928202.31	0.0537	0.0425
Moon	3305-05-21 19:55 G	2928327.26	2928327.33	2928327.39	0.2651	0.2388

Earth	3305-05-21 21:35 G	2928327.32	2928327.40	2928327.47	0.2648	0.2273 *
Mars	3305-07-11 07:11 G	2928377.76	2928377.80	2928377.85	0.1852	0.1720
Mars	3306-08-05 15:35 G	2928767.99	2928768.15	2928768.31	0.1693	0.0383
Mars	3307-06-16 20:09 G	2929083.24	2929083.34	2929083.43	0.1824	0.0998
Saturn	3308-01-07 19:40 G	2929288.20	2929288.32	2929288.44	0.0277	0.0196
Saturn	3308-04-05 15:07 G	2929376.96	2929377.13	2929377.31	0.0276	0.0054
Saturn	3308-07-03 11:02 G	2929465.79	2929465.96	2929466.13	0.0276	0.0090
Saturn	3308-09-30 07:11 G	2929554.71	2929554.80	2929554.89	0.0275	0.0235
Earth	3308-11-24 11:45 G	2929609.89	2929609.99	2929610.09	0.2686	0.0869
Moon	3308-11-24 12:14 G	2929609.91	2929610.01	2929610.12	0.2682	0.0848 *
Jupiter	3310-12-02 23:45 G	2930348.31	2930348.49	2930348.67	0.0489	0.0047
Mars	3315-12-26 16:04 G	2932198.06	2932198.17	2932198.29	0.1686	0.1212
Jupiter	3316-08-07 11:45 G	2932422.89	2932422.99	2932423.09	0.0538	0.0357
Jupiter	3316-11-04 20:38 G	2932512.25	2932512.36	2932512.48	0.0537	0.0268
Mars	3316-11-06 05:02 G	2932513.60	2932513.71	2932513.83	0.1832	0.0365
Moon	3318-05-25 03:07 G	2933078.48	2933078.63	2933078.78	0.2651	0.0320
Earth	3318-05-25 04:04 G	2933078.51	2933078.67	2933078.82	0.2646	0.0527 *
Venus	3319-12-19 20:24 G	2933652.32	2933652.35	2933652.38	0.3677	0.3458
Uranus	3321-01-14 07:11 G	2934043.75	2934043.80	2934043.88	0.0144	0.0134
Uranus	3321-04-12 15:07 G	2934132.01	2934132.13	2934132.26	0.0144	0.0105
Venus	3321-07-04 12:43 G	2934214.94	2934215.03	2934215.13	0.3692	0.2709
Uranus	3321-07-09 22:48 G	2934220.31	2934220.45	2934220.62	0.0144	0.0076
Uranus	3321-10-06 06:57 G	2934308.62	2934308.79	2934308.97	0.0144	0.0046
Earth	3321-11-27 05:31 G	2934360.62	2934360.73	2934360.84	0.2687	0.0532
Moon	3321-11-27 05:31 G	2934360.63	2934360.73	2934360.84	0.2680	0.0587 *
Uranus	3322-01-02 14:52 G	2934396.94	2934397.12	2934397.31	0.0144	0.0017
Uranus	3322-03-31 23:02 G	2934485.27	2934485.46	2934485.64	0.0144	0.0014
Uranus	3322-06-28 06:43 G	2934573.61	2934573.78	2934573.97	0.0144	0.0044
Jupiter	3322-09-20 22:48 G	2934658.29	2934658.45	2934658.61	0.0489	0.0205
Uranus	3322-09-24 14:52 G	2934661.96	2934662.12	2934662.29	0.0143	0.0073

Jupiter 3322-12-20 02:09 G 2934748.53 2934748.59 2934748.66 0.0490 0.0455

Uranus 3322-12-21 22:48 G 2934750.33 2934750.45 2934750.59 0.0143 0.0104

Uranus 3323-03-20 06:57 G 2934838.73 2934838.79 2934838.87 0.0143 0.0133

Saturn 3323-07-31 08:09 G 2934971.76 2934971.84 2934971.93 0.0283 0.0221

Saturn 3323-10-27 20:52 G 2935060.24 2935060.37 2935060.50 0.0284 0.0099

Saturn 3324-01-24 09:35 G 2935148.76 2935148.90 2935149.04 0.0284 0.0022

Saturn 3324-04-21 22:04 G 2935237.30 2935237.42 2935237.54 0.0285 0.0143

Saturn 3324-07-19 10:19 G 2935325.88 2935325.93 2935325.98 0.0286 0.0263

Venus 3325-07-04 13:26 G 2935675.97 2935676.06 2935676.15 0.3678 0.2042

Mars 3326-03-29 14:09 G 2935943.98 2935944.09 2935944.21 0.1838 0.0287

Venus 3327-01-18 16:48 G 2936239.05 2936239.20 2936239.34 0.3692 0.0307

Mars 3327-04-24 17:02 G 2936335.13 2936335.21 2936335.29 0.1706 0.1481

Jupiter 3328-05-26 14:52 G 2936733.09 2936733.12 2936733.15 0.0539 0.0518

Jupiter 3328-08-24 00:14 G 2936822.38 2936822.51 2936822.64 0.0538 0.0114

Venus 3331-01-18 06:14 G 2937699.65 2937699.76 2937699.86 0.3679 0.0648

Venus 3332-08-03 21:21 G 2938263.35 2938263.39 2938263.44 0.3690 0.3498

Jupiter 3334-07-09 21:35 G 2938968.29 2938968.40 2938968.51 0.0489 0.0367

Jupiter 3334-10-08 00:14 G 2939058.37 2939058.51 2939058.66 0.0490 0.0283

Moon 3334-11-29 22:48 G 2939111.37 2939111.45 2939111.53 0.2684 0.1823

Earth 3334-11-29 23:16 G 2939111.39 2939111.47 2939111.54 0.2689 0.1917 *

Mars 3335-08-19 22:48 G 2939374.35 2939374.45 2939374.55 0.1846 0.0963

Venus 3336-08-02 22:48 G 2939723.35 2939723.45 2939723.56 0.3680 0.0705

Mars 3336-09-13 16:33 G 2939765.03 2939765.19 2939765.34 0.1699 0.0582

Saturn 3337-05-26 20:09 G 2940020.26 2940020.34 2940020.45 0.0278 0.0231

Mars 3337-07-25 10:48 G 2940079.91 2940079.95 2940079.99 0.1817 0.1669

Saturn 3337-08-23 15:50 G 2940109.00 2940109.16 2940109.33 0.0277 0.0088

Saturn 3337-11-20 11:45 G 2940197.81 2940197.99 2940198.16 0.0276 0.0056

Saturn 3338-02-17 07:26 G 2940286.70 2940286.81 2940286.94 0.0275 0.0202

Jupiter 3340-06-12 03:35 G 2941132.52 2941132.65 2941132.78 0.0539 0.0044

Earth 3341-11-22 22:48 G 2941661.38 2941661.45 2941661.52 0.2684 0.1993

Moon 3341-11-22 23:31 G 2941661.40 2941661.48 2941661.55 0.2684 0.1939 *

Venus 3342-02-16 15:21 G 2941747.05 2941747.14 2941747.23 0.3681 0.2033

Mars 3345-01-09 07:26 G 2942804.76 2942804.81 2942804.86 0.1852 0.1646

Mars 3346-02-03 16:19 G 2943195.02 2943195.18 2943195.34 0.1692 0.0291

Jupiter 3346-07-26 23:16 G 2943368.30 2943368.47 2943368.65 0.0489 0.0123

Mars 3346-12-15 20:09 G 2943510.24 2943510.34 2943510.43 0.1825 0.1058

Venus 3347-09-02 07:40 G 2943770.78 2943770.82 2943770.87 0.3681 0.3319

Moon 3351-05-23 02:38 G 2945129.51 2945129.61 2945129.71 0.2650 0.1992

Earth 3351-05-23 04:04 G 2945129.55 2945129.67 2945129.79 0.2647 0.1721 *

Jupiter 3352-03-31 07:26 G 2945442.69 2945442.81 2945442.94 0.0539 0.0189

Jupiter 3352-06-28 16:19 G 2945532.10 2945532.18 2945532.25 0.0537 0.0431

Saturn 3352-12-17 09:21 G 2945703.85 2945703.89 2945703.94 0.0282 0.0263

Saturn 3353-03-15 22:04 G 2945792.31 2945792.42 2945792.55 0.0282 0.0142

Saturn 3353-06-12 10:48 G 2945880.81 2945880.95 2945881.09 0.0283 0.0021

Saturn 3353-09-08 23:16 G 2945969.35 2945969.47 2945969.60 0.0284 0.0100

Saturn 3353-12-06 11:31 G 2946057.90 2946057.98 2946058.07 0.0285 0.0220

Earth 3354-11-25 16:33 G 2946412.09 2946412.19 2946412.30 0.2686 0.0583

Moon 3354-11-25 17:02 G 2946412.10 2946412.21 2946412.32 0.2681 0.0457 *

Mars 3355-06-26 16:33 G 2946625.07 2946625.19 2946625.31 0.1686 0.1130

Neptune 3355-11-09 06:43 G 2946760.76 2946760.78 2946760.83 0.0089 0.0087

Neptune 3356-02-05 08:24 G 2946848.80 2946848.85 2946848.92 0.0089 0.0079

Neptune 3356-05-03 10:04 G 2946936.84 2946936.92 2946937.01 0.0089 0.0072

Mars 3356-05-07 05:16 G 2946940.61 2946940.72 2946940.83 0.1831 0.0432

Neptune 3356-07-30 11:31 G 2947024.90 2947024.98 2947025.09 0.0089 0.0065

Neptune 3356-10-26 12:57 G 2947112.95 2947113.04 2947113.16 0.0089 0.0058

Neptune 3357-01-22 14:52 G 2947201.01 2947201.12 2947201.24 0.0089 0.0050

Neptune 3357-04-20 16:19 G 2947289.06 2947289.18 2947289.31 0.0089 0.0042

Neptune 3357-07-17 17:45 G 2947377.12 2947377.24 2947377.38 0.0089 0.0036

Neptune 3357-10-13 19:26 G 2947465.18 2947465.31 2947465.45 0.0089 0.0028

Neptune 3358-01-09 21:07 G 2947553.24 2947553.38 2947553.51 0.0089 0.0020

Neptune 3358-04-07 22:33 G 2947641.31 2947641.44 2947641.58 0.0089 0.0013

Jupiter 3358-05-14 22:19 G 2947678.25 2947678.43 2947678.61 0.0489 0.0039

Neptune 3358-07-05 00:00 G 2947729.37 2947729.50 2947729.64 0.0089 0.0007

Neptune 3358-10-01 01:40 G 2947817.43 2947817.57 2947817.71 0.0089 0.0002

Neptune 3358-12-28 03:07 G 2947905.49 2947905.63 2947905.77 0.0089 0.0009

Neptune 3359-03-26 04:48 G 2947993.56 2947993.70 2947993.83 0.0089 0.0016

Neptune 3359-06-22 06:14 G 2948081.63 2948081.76 2948081.89 0.0089 0.0023

Neptune 3359-09-18 07:40 G 2948169.69 2948169.82 2948169.95 0.0089 0.0030

Neptune 3359-12-15 08:52 G 2948257.76 2948257.87 2948258.01 0.0089 0.0038

Neptune 3360-03-12 10:33 G 2948345.83 2948345.94 2948346.06 0.0089 0.0044

Neptune 3360-06-08 12:00 G 2948433.90 2948434.00 2948434.12 0.0089 0.0051

Neptune 3360-09-04 13:26 G 2948521.97 2948522.06 2948522.17 0.0089 0.0059

Neptune 3360-12-01 14:52 G 2948610.04 2948610.12 2948610.22 0.0089 0.0066

Neptune 3361-02-27 16:19 G 2948698.11 2948698.18 2948698.27 0.0089 0.0073

Neptune 3361-05-26 17:45 G 2948786.19 2948786.24 2948786.31 0.0089 0.0080

Neptune 3361-08-22 19:11 G 2948874.28 2948874.30 2948874.34 0.0089 0.0087

Jupiter 3364-01-18 11:02 G 2949752.86 2949752.96 2949753.06 0.0539 0.0341

Uranus 3364-04-16 03:35 G 2949841.61 2949841.65 2949841.72 0.0134 0.0122

Jupiter 3364-04-16 20:09 G 2949842.23 2949842.34 2949842.45 0.0537 0.0285

Moon 3364-05-25 10:04 G 2949880.78 2949880.92 2949881.06 0.2652 0.1107

Earth 3364-05-25 10:33 G 2949880.80 2949880.94 2949881.08 0.2645 0.1077 *

Uranus 3364-07-13 06:57 G 2949929.71 2949929.79 2949929.88 0.0134 0.0104

Uranus 3364-10-09 10:19 G 2950017.83 2950017.93 2950018.04 0.0134 0.0086

Uranus 3365-01-05 13:40 G 2950105.95 2950106.07 2950106.19 0.0134 0.0068

Uranus 3365-04-03 16:48 G 2950194.08 2950194.20 2950194.33 0.0135 0.0051

Uranus 3365-06-30 19:55 G 2950282.21 2950282.33 2950282.47 0.0135 0.0034

Uranus 3365-09-26 23:16 G 2950370.34 2950370.47 2950370.60 0.0135 0.0016

Mars 3365-09-27 14:09 G 2950370.97 2950371.09 2950371.21 0.1838 0.0224

Uranus 3365-12-24 02:24 G 2950458.47 2950458.60 2950458.74 0.0135 0.0003

Uranus 3366-03-22 05:31 G 2950546.60 2950546.73 2950546.87 0.0135 0.0019

Uranus 3366-06-18 08:38 G 2950634.74 2950634.86 2950634.99 0.0135 0.0036

Uranus 3366-09-14 12:00 G 2950722.87 2950723.00 2950723.12 0.0135 0.0053

Mars 3366-10-23 17:31 G 2950762.17 2950762.23 2950762.29 0.1706 0.1569

Uranus 3366-12-11 15:07 G 2950811.01 2950811.13 2950811.24 0.0135 0.0071

Saturn 3367-01-10 12:43 G 2950840.89 2950841.03 2950841.18 0.0277 0.0150

Uranus 3367-03-09 18:00 G 2950899.16 2950899.25 2950899.36 0.0135 0.0088

Saturn 3367-04-09 08:24 G 2950929.67 2950929.85 2950930.02 0.0276 0.0007

Uranus 3367-06-05 21:07 G 2950987.31 2950987.38 2950987.47 0.0135 0.0105

Saturn 3367-07-07 04:19 G 2951018.52 2951018.68 2951018.83 0.0276 0.0138

Uranus 3367-09-02 00:14 G 2951075.46 2951075.51 2951075.57 0.0135 0.0122

Moon 3367-11-28 10:19 G 2951162.83 2951162.93 2951163.04 0.2680 0.0765

Earth 3367-11-28 10:19 G 2951162.83 2951162.93 2951163.04 0.2688 0.0821 *

Jupiter 3370-03-02 21:35 G 2951988.24 2951988.40 2951988.56 0.0489 0.0195

Jupiter 3370-06-01 00:57 G 2952078.49 2952078.54 2952078.60 0.0490 0.0465

Mars 3375-02-17 23:02 G 2953801.35 2953801.46 2953801.56 0.1845 0.0891

Jupiter 3375-11-06 13:55 G 2954063.04 2954063.08 2954063.13 0.0539 0.0505

Jupiter 3376-02-03 23:31 G 2954152.35 2954152.48 2954152.60 0.0538 0.0128

Mars 3376-03-14 17:16 G 2954192.07 2954192.22 2954192.37 0.1699 0.0677

Venus 3376-07-25 18:14 G 2954325.20 2954325.26 2954325.32 0.3678 0.2996

Mars 3377-01-23 10:48 G 2954506.92 2954506.95 2954506.98 0.1817 0.1732

Venus 3378-02-08 13:26 G 2954887.93 2954888.06 2954888.18 0.3692 0.1812

Moon 3380-11-30 03:21 G 2955913.58 2955913.64 2955913.71 0.2685 0.2164

Earth 3380-11-30 04:04 G 2955913.61 2955913.67 2955913.73 0.2689 0.2204 *

Jupiter 3381-12-19 20:52 G 2956298.25 2956298.37 2956298.49 0.0489 0.0351

Venus 3382-02-08 11:16 G 2956348.87 2956348.97 2956349.06 0.3678 0.1587

Jupiter 3382-03-19 23:45 G 2956388.35 2956388.49 2956388.63 0.0490 0.0301

Saturn 3382-08-02 23:31 G 2956524.38 2956524.48 2956524.59 0.0283 0.0181

Saturn 3382-10-30 12:14 G 2956612.88 2956613.01 2956613.15 0.0284 0.0060

Saturn 3383-01-27 00:43 G 2956701.40 2956701.53 2956701.67 0.0284 0.0061

Saturn 3383-04-25 13:11 G 2956789.95 2956790.05 2956790.16 0.0285 0.0181

Venus 3383-08-25 17:31 G 2956912.10 2956912.23 2956912.37 0.3691 0.1265

Mars 3384-07-10 07:26 G 2957231.75 2957231.81 2957231.87 0.1852 0.1584

Mars 3385-08-04 17:02 G 2957622.05 2957622.21 2957622.38 0.1693 0.0197

Mars 3386-06-15 20:09 G 2957937.25 2957937.34 2957937.43 0.1824 0.1124

Venus 3387-08-25 03:50 G 2958372.56 2958372.66 2958372.77 0.3679 0.0234

Jupiter 3387-11-23 02:52 G 2958462.49 2958462.62 2958462.75 0.0538 0.0029

Earth 3387-11-24 03:35 G 2958463.57 2958463.65 2958463.73 0.2684 0.1696

Moon 3387-11-24 04:19 G 2958463.59 2958463.68 2958463.77 0.2684 0.1545 *

Venus 3393-03-09 20:38 G 2960396.26 2960396.36 2960396.46 0.3680 0.1142

Jupiter 3394-01-05 22:19 G 2960698.25 2960698.43 2960698.60 0.0489 0.0134

Mars 3394-12-25 17:31 G 2961052.10 2961052.23 2961052.36 0.1686 0.1034

Mars 3395-11-06 05:16 G 2961367.60 2961367.72 2961367.83 0.1831 0.0491

Saturn 3396-05-29 12:57 G 2961572.92 2961573.04 2961573.18 0.0278 0.0187

Saturn 3396-08-26 08:38 G 2961661.69 2961661.86 2961662.04 0.0277 0.0044

Saturn 3396-11-23 04:33 G 2961750.53 2961750.69 2961750.86 0.0276 0.0101

Saturn 3397-02-20 00:43 G 2961839.46 2961839.53 2961839.61 0.0276 0.0247

Moon 3397-05-23 09:21 G 2961931.75 2961931.89 2961932.02 0.2650 0.1305

Earth 3397-05-23 10:33 G 2961931.81 2961931.94 2961932.09 0.2647 0.1175 *

Venus 3398-09-23 13:11 G 2962419.97 2962420.05 2962420.12 0.3681 0.2457

Jupiter 3399-09-11 06:00 G 2962772.63 2962772.75 2962772.88 0.0539 0.0188

Jupiter 3399-12-09 14:52 G 2962862.05 2962862.12 2962862.19 0.0538 0.0433

Earth 3400-11-26 21:21 G 2963214.28 2963214.39 2963214.50 0.2686 0.0296

Moon 3400-11-26 21:50 G 2963214.30 2963214.41 2963214.52 0.2680 0.0299 *

Uranus 3405-02-04 15:07 G 2964745.05 2964745.13 2964745.23 0.0144 0.0125

Mars 3405-03-29 14:09 G 2964797.98 2964798.09 2964798.21 0.1838 0.0163

Uranus 3405-05-03 22:48 G 2964833.33 2964833.45 2964833.61 0.0144 0.0096

Uranus 3405-07-31 06:57 G 2964921.63 2964921.79 2964921.96 0.0144 0.0066

Jupiter 3405-10-25 21:21 G 2965008.21 2965008.39 2965008.57 0.0489 0.0025

Uranus 3405-10-27 14:52 G 2965009.94 2965010.12 2965010.31 0.0144 0.0037

Uranus 3406-01-23 22:48 G 2965098.27 2965098.45 2965098.64 0.0144 0.0008

Uranus	**3406-04-22 06:57 G**	**2965186.60**	**2965186.79**	**2965186.97**	**0.0144**	**0.0023**
Mars	**3406-04-24 18:28 G**	**2965189.24**	**2965189.27**	**2965189.30**	**0.1706**	**0.1676**
Uranus	**3406-07-19 14:52 G**	**2965274.94**	**2965275.12**	**2965275.30**	**0.0143**	**0.0053**
Uranus	**3406-10-15 22:48 G**	**2965363.30**	**2965363.45**	**2965363.61**	**0.0143**	**0.0083**
Uranus	**3407-01-12 06:57 G**	**2965451.68**	**2965451.79**	**2965451.91**	**0.0143**	**0.0113**
Uranus	**3407-04-10 14:52 G**	**2965540.12**	**2965540.12**	**2965540.15**	**0.0143**	**0.0143**
Moon	**3410-05-27 16:48 G**	**2966683.08**	**2966683.20**	**2966683.33**	**0.2652**	**0.1522**
Earth	**3410-05-27 17:16 G**	**2966683.10**	**2966683.22**	**2966683.34**	**0.2645**	**0.1650** *
Jupiter	**3411-07-01 09:50 G**	**2967082.81**	**2967082.91**	**2967083.01**	**0.0539**	**0.0337**
Jupiter	**3411-09-28 18:57 G**	**2967172.18**	**2967172.29**	**2967172.40**	**0.0538**	**0.0291**
Saturn	**3411-12-22 00:57 G**	**2967256.46**	**2967256.54**	**2967256.62**	**0.0282**	**0.0222**
Saturn	**3412-03-19 13:40 G**	**2967344.94**	**2967345.07**	**2967345.20**	**0.0282**	**0.0101**
Saturn	**3412-06-16 02:09 G**	**2967433.46**	**2967433.59**	**2967433.73**	**0.0283**	**0.0020**
Saturn	**3412-09-12 14:38 G**	**2967521.99**	**2967522.11**	**2967522.23**	**0.0284**	**0.0139**
Saturn	**3412-12-10 02:52 G**	**2967610.57**	**2967610.62**	**2967610.68**	**0.0285**	**0.0257**
Moon	**3413-11-29 15:07 G**	**2967965.03**	**2967965.13**	**2967965.23**	**0.2681**	**0.1145**
Earth	**3413-11-29 15:07 G**	**2967965.03**	**2967965.13**	**2967965.23**	**0.2688**	**0.1107** *
Mars	**3414-08-19 23:02 G**	**2968228.35**	**2968228.46**	**2968228.56**	**0.1845**	**0.0822**
Mars	**3415-09-14 17:45 G**	**2968619.09**	**2968619.24**	**2968619.39**	**0.1699**	**0.0763**
Mars	**3416-07-25 10:48 G**	**2968933.94**	**2968933.95**	**2968933.97**	**0.1817**	**0.1798**
Jupiter	**3417-08-13 20:24 G**	**2969318.18**	**2969318.35**	**2969318.51**	**0.0489**	**0.0185**
Jupiter	**3417-11-11 23:31 G**	**2969408.44**	**2969408.48**	**2969408.53**	**0.0490**	**0.0474**
Jupiter	**3423-04-19 13:26 G**	**2971393.00**	**2971393.06**	**2971393.11**	**0.0539**	**0.0489**
Jupiter	**3423-07-17 22:48 G**	**2971482.32**	**2971482.45**	**2971482.58**	**0.0538**	**0.0144**
Mars	**3424-01-10 07:26 G**	**2971658.75**	**2971658.81**	**2971658.88**	**0.1852**	**0.1516**
Mars	**3425-02-03 17:45 G**	**2972049.07**	**2972049.24**	**2972049.40**	**0.1693**	**0.0115**
Saturn	**3425-10-17 09:50 G**	**2972304.84**	**2972304.91**	**2972305.00**	**0.0278**	**0.0248**
Mars	**3425-12-15 20:09 G**	**2972364.25**	**2972364.34**	**2972364.43**	**0.1824**	**0.1186**
Saturn	**3426-01-14 05:31 G**	**2972393.57**	**2972393.73**	**2972393.89**	**0.0277**	**0.0106**
Saturn	**3426-04-13 01:11 G**	**2972482.38**	**2972482.55**	**2972482.73**	**0.0276**	**0.0038**

Saturn 3426-07-10 21:07 G 2972571.25 2972571.38 2972571.52 0.0276 0.0183

Moon 3426-12-02 08:09 G 2972715.79 2972715.84 2972715.89 0.2685 0.2342

Earth 3426-12-02 08:52 G 2972715.83 2972715.87 2972715.91 0.2689 0.2489 *

Jupiter 3429-06-01 19:40 G 2973628.20 2973628.32 2973628.45 0.0489 0.0339

Jupiter 3429-08-30 22:33 G 2973718.30 2973718.44 2973718.58 0.0490 0.0312

Venus 3433-03-02 16:04 G 2974998.09 2974998.17 2974998.25 0.3678 0.2528

Earth 3433-11-25 08:24 G 2975265.76 2975265.85 2975265.95 0.2685 0.1404

Moon 3433-11-25 09:07 G 2975265.78 2975265.88 2975265.97 0.2683 0.1332 *

Mars 3434-06-26 18:14 G 2975479.12 2975479.26 2975479.40 0.1687 0.0938

Venus 3434-09-16 14:09 G 2975560.95 2975561.09 2975561.23 0.3692 0.0875

Pluto 3434-11-26 12:00 G 2975632.00 2975632.00 2975632.04 0.0071 0.0070

Pluto 3435-02-22 12:57 G 2975719.98 2975720.04 2975720.12 0.0071 0.0061

Jupiter 3435-05-06 02:09 G 2975792.46 2975792.59 2975792.72 0.0538 0.0020

Mars 3435-05-08 05:16 G 2975794.61 2975794.72 2975794.83 0.1831 0.0558

Pluto 3435-05-21 13:55 G 2975807.99 2975808.08 2975808.18 0.0071 0.0053

Pluto 3435-08-17 14:52 G 2975896.01 2975896.12 2975896.23 0.0071 0.0044

Pluto 3435-11-13 15:21 G 2975984.03 2975984.14 2975984.28 0.0071 0.0036

Pluto 3436-02-09 16:33 G 2976072.06 2976072.19 2976072.32 0.0072 0.0026

Pluto 3436-05-07 17:31 G 2976160.09 2976160.23 2976160.36 0.0072 0.0017

Pluto 3436-08-03 18:14 G 2976248.12 2976248.26 2976248.40 0.0072 0.0008

Pluto 3436-10-30 19:11 G 2976336.16 2976336.30 2976336.44 0.0072 0.0001

Pluto 3437-01-26 20:09 G 2976424.20 2976424.34 2976424.48 0.0072 0.0010

Pluto 3437-04-24 20:52 G 2976512.24 2976512.37 2976512.51 0.0072 0.0020

Pluto 3437-07-21 21:35 G 2976600.28 2976600.40 2976600.54 0.0072 0.0030

Pluto 3437-10-17 22:33 G 2976688.33 2976688.44 2976688.57 0.0072 0.0039

Pluto 3438-01-13 23:45 G 2976776.39 2976776.49 2976776.60 0.0073 0.0048

Pluto 3438-04-12 00:28 G 2976864.45 2976864.52 2976864.61 0.0073 0.0058

Pluto 3438-07-09 01:11 G 2976952.52 2976952.55 2976952.62 0.0073 0.0068

Neptune 3438-07-25 19:40 G 2976969.26 2976969.32 2976969.40 0.0088 0.0081

Venus 3438-09-16 08:52 G 2977021.77 2977021.87 2977021.98 0.3679 0.1133

Neptune 3438-10-21 22:48 G 2977057.35 2977057.45 2977057.56 0.0088 0.0072

Neptune 3439-01-18 01:55 G 2977145.45 2977145.58 2977145.70 0.0088 0.0063

Neptune 3439-04-16 04:33 G 2977233.56 2977233.69 2977233.85 0.0088 0.0055

Neptune 3439-07-13 07:26 G 2977321.67 2977321.81 2977321.98 0.0088 0.0046

Neptune 3439-10-09 10:33 G 2977409.79 2977409.94 2977410.12 0.0088 0.0037

Neptune 3440-01-05 13:40 G 2977497.91 2977498.07 2977498.25 0.0088 0.0028

Venus 3440-04-01 18:28 G 2977585.16 2977585.27 2977585.39 0.3691 0.2231

Neptune 3440-04-02 16:48 G 2977586.03 2977586.20 2977586.39 0.0088 0.0019

Neptune 3440-06-29 19:55 G 2977674.15 2977674.33 2977674.52 0.0088 0.0010

Neptune 3440-09-25 23:02 G 2977762.28 2977762.46 2977762.64 0.0088 0.0001

Neptune 3440-12-23 02:09 G 2977850.41 2977850.59 2977850.77 0.0088 0.0009

Neptune 3441-03-21 05:02 G 2977938.54 2977938.71 2977938.90 0.0088 0.0018

Saturn 3441-05-10 01:55 G 2977988.54 2977988.58 2977988.63 0.0282 0.0264

Neptune 3441-06-17 08:09 G 2978026.67 2978026.84 2978027.02 0.0088 0.0027

Jupiter 3441-06-18 21:35 G 2978028.23 2978028.40 2978028.57 0.0490 0.0151

Saturn 3441-08-06 14:52 G 2978077.00 2978077.12 2978077.24 0.0283 0.0142

Neptune 3441-09-13 11:16 G 2978114.81 2978114.97 2978115.14 0.0088 0.0036

Saturn 3441-11-03 03:21 G 2978165.51 2978165.64 2978165.78 0.0284 0.0024

Neptune 3441-12-10 14:24 G 2978202.95 2978203.10 2978203.26 0.0088 0.0045

Saturn 3442-01-30 15:50 G 2978254.04 2978254.16 2978254.29 0.0284 0.0099

Neptune 3442-03-08 17:16 G 2978291.09 2978291.22 2978291.38 0.0088 0.0055

Saturn 3442-04-29 04:19 G 2978342.59 2978342.68 2978342.77 0.0285 0.0218

Neptune 3442-06-04 20:24 G 2978379.24 2978379.35 2978379.49 0.0088 0.0064

Neptune 3442-08-31 23:45 G 2978467.40 2978467.49 2978467.60 0.0088 0.0073

Neptune 3442-11-28 02:52 G 2978555.57 2978555.62 2978555.69 0.0088 0.0082

Moon 3443-05-25 16:04 G 2978734.02 2978734.17 2978734.31 0.2651 0.0786

Earth 3443-05-25 17:02 G 2978734.06 2978734.21 2978734.37 0.2647 0.0637 *

Venus 3444-04-01 01:40 G 2979045.46 2979045.57 2979045.68 0.3679 0.0238

Mars 3444-09-27 14:09 G 2979224.98 2979225.09 2979225.21 0.1838 0.0111

Earth 3446-11-28 02:09 G 2980016.48 2980016.59 2980016.70 0.2686 0.0093

Moon	3446-11-28 02:38 G	2980016.50	2980016.61	2980016.72	0.2680	0.0130 *
Jupiter	3447-02-22 05:16 G	2980102.60	2980102.72	2980102.85	0.0538	0.0173
Jupiter	3447-05-22 14:09 G	2980192.02	2980192.09	2980192.16	0.0537	0.0446
Uranus	3448-02-09 08:09 G	2980454.83	2980454.84	2980454.87	0.0134	0.0132
Uranus	3448-05-07 11:31 G	2980542.91	2980542.98	2980543.05	0.0134	0.0114
Uranus	3448-08-03 14:38 G	2980631.03	2980631.11	2980631.21	0.0134	0.0097
Uranus	3448-10-30 18:00 G	2980719.14	2980719.25	2980719.36	0.0134	0.0080
Uranus	3449-01-26 21:07 G	2980807.27	2980807.38	2980807.51	0.0134	0.0062
Uranus	3449-04-25 00:28 G	2980895.39	2980895.52	2980895.65	0.0135	0.0045
Uranus	3449-07-22 03:35 G	2980983.52	2980983.65	2980983.79	0.0135	0.0028
Venus	3449-10-15 18:14 G	2981069.17	2981069.26	2981069.36	0.3680	0.1578
Uranus	3449-10-18 06:57 G	2981071.65	2981071.79	2981071.92	0.0135	0.0010
Uranus	3450-01-14 10:04 G	2981159.79	2981159.92	2981160.05	0.0135	0.0008
Uranus	3450-04-12 13:11 G	2981247.92	2981248.05	2981248.18	0.0135	0.0025
Uranus	3450-07-09 16:19 G	2981336.06	2981336.18	2981336.31	0.0135	0.0042
Uranus	3450-10-05 19:26 G	2981424.19	2981424.31	2981424.43	0.0135	0.0060
Uranus	3451-01-01 22:33 G	2981512.34	2981512.44	2981512.55	0.0135	0.0077
Uranus	3451-03-31 01:40 G	2981600.48	2981600.57	2981600.67	0.0135	0.0094
Uranus	3451-06-27 04:48 G	2981688.63	2981688.70	2981688.78	0.0135	0.0111
Uranus	3451-09-23 07:55 G	2981776.80	2981776.83	2981776.87	0.0135	0.0128
Jupiter	3453-04-06 20:09 G	2982338.17	2982338.34	2982338.52	0.0489	0.0016
Mars	3454-02-17 23:02 G	2982655.35	2982655.46	2982655.56	0.1845	0.0762
Mars	3455-03-15 18:28 G	2983046.13	2983046.27	2983046.42	0.1700	0.0863
Venus	3455-05-01 10:48 G	2983092.89	2983092.95	2983093.01	0.3681	0.2874
Saturn	3455-06-03 05:31 G	2983125.59	2983125.73	2983125.88	0.0278	0.0145
Saturn	3455-08-31 01:26 G	2983214.38	2983214.56	2983214.73	0.0277	0.0005
Saturn	3455-11-27 21:21 G	2983303.24	2983303.39	2983303.54	0.0276	0.0144
Moon	3456-05-27 23:31 G	2983485.40	2983485.48	2983485.56	0.2652	0.2241
Earth	3456-05-27 23:45 G	2983485.41	2983485.49	2983485.58	0.2645	0.2205 *
Jupiter	3458-12-11 08:24 G	2984412.74	2984412.85	2984412.95	0.0539	0.0336

Jupiter 3459-03-10 17:31 G 2984502.12 2984502.23 2984502.34 0.0538 0.0292

Moon 3459-11-30 19:40 G 2984767.22 2984767.32 2984767.42 0.2682 0.1299

Earth 3459-11-30 19:55 G 2984767.24 2984767.33 2984767.42 0.2688 0.1399 *

Mars 3463-07-11 07:40 G 2986085.75 2986085.82 2986085.89 0.1852 0.1444

Mars 3464-08-04 18:28 G 2986476.11 2986476.27 2986476.44 0.1693 0.0015

Jupiter 3465-01-23 19:26 G 2986648.15 2986648.31 2986648.48 0.0488 0.0169

Jupiter 3465-04-23 22:48 G 2986738.44 2986738.45 2986738.46 0.0490 0.0488

Mars 3465-06-15 20:09 G 2986791.26 2986791.34 2986791.42 0.1824 0.1249

Earth 3466-11-23 19:26 G 2987317.27 2987317.31 2987317.34 0.2683 0.2533

Moon 3466-11-23 20:09 G 2987317.29 2987317.34 2987317.38 0.2686 0.2403 *

Jupiter 3470-09-29 12:00 G 2988722.94 2988723.00 2988723.05 0.0540 0.0487

Saturn 3470-12-24 16:33 G 2988809.08 2988809.19 2988809.30 0.0282 0.0180

Jupiter 3470-12-27 21:21 G 2988812.27 2988812.39 2988812.52 0.0538 0.0148

Saturn 3471-03-23 05:16 G 2988897.58 2988897.72 2988897.85 0.0282 0.0060

Saturn 3471-06-19 17:45 G 2988986.10 2988986.24 2988986.37 0.0283 0.0060

Saturn 3471-09-16 06:00 G 2989074.65 2989074.75 2989074.86 0.0284 0.0179

Mars 3473-12-25 18:43 G 2989906.14 2989906.28 2989906.42 0.1687 0.0860

Mars 3474-11-06 05:16 G 2990221.62 2990221.72 2990221.83 0.1831 0.0629

Jupiter 3476-11-11 18:28 G 2990958.15 2990958.27 2990958.40 0.0488 0.0328

Jupiter 3477-02-09 21:21 G 2991048.26 2991048.39 2991048.52 0.0489 0.0322

Earth 3479-11-26 13:11 G 2992067.95 2992068.05 2992068.15 0.2685 0.1114

Moon 3479-11-26 13:55 G 2992067.98 2992068.08 2992068.18 0.2681 0.1029 *

Jupiter 3482-10-16 01:11 G 2993122.42 2993122.55 2993122.68 0.0539 0.0014

Mars 3483-05-17 19:40 G 2993336.29 2993336.32 2993336.34 0.1681 0.1659

Venus 3484-03-23 20:52 G 2993647.34 2993647.37 2993647.40 0.3677 0.3490

Mars 3484-03-28 14:24 G 2993651.98 2993652.10 2993652.21 0.1838 0.0073

Saturn 3484-10-20 02:38 G 2993857.50 2993857.61 2993857.73 0.0278 0.0205

Saturn 3485-01-16 22:04 G 2993946.25 2993946.42 2993946.60 0.0277 0.0063

Saturn 3485-04-15 18:00 G 2994035.08 2994035.25 2994035.42 0.0277 0.0082

Saturn 3485-07-13 13:55 G 2994123.99 2994124.08 2994124.19 0.0276 0.0228

Venus	3485-10-07 11:02 G	2994209.88	2994209.96	2994210.05	0.3692	0.2903
Jupiter	3488-08-30 18:14 G	2995268.23	2995268.26	2995268.28	0.0488	0.0480
Jupiter	3488-11-28 20:24 G	2995358.18	2995358.35	2995358.52	0.0489	0.0162
Uranus	3489-02-24 23:16 G	2995446.37	2995446.47	2995446.59	0.0144	0.0115
Uranus	3489-05-24 06:57 G	2995534.65	2995534.79	2995534.95	0.0144	0.0086
Moon	3489-05-25 22:48 G	2995536.30	2995536.45	2995536.60	0.2652	0.0230
Earth	3489-05-25 23:45 G	2995536.33	2995536.49	2995536.65	0.2647	0.0080 *
Uranus	3489-08-20 14:52 G	2995622.96	2995623.12	2995623.30	0.0144	0.0057
Venus	3489-10-07 13:55 G	2995670.99	2995671.08	2995671.17	0.3678	0.2065
Uranus	3489-11-16 23:02 G	2995711.27	2995711.46	2995711.64	0.0144	0.0027
Uranus	3490-02-13 06:57 G	2995799.60	2995799.79	2995799.98	0.0144	0.0003
Uranus	3490-05-12 14:52 G	2995887.94	2995888.12	2995888.31	0.0144	0.0033
Uranus	3490-08-08 22:48 G	2995976.29	2995976.45	2995976.63	0.0143	0.0063
Uranus	3490-11-05 06:43 G	2996064.65	2996064.78	2996064.94	0.0143	0.0093
Uranus	3491-02-01 14:52 G	2996153.03	2996153.12	2996153.22	0.0143	0.0122
Venus	3491-04-23 15:07 G	2996233.98	2996234.13	2996234.27	0.3691	0.0128
Moon	3492-11-28 07:11 G	2996818.69	2996818.80	2996818.91	0.2680	0.0314
Earth	3492-11-28 06:57 G	2996818.69	2996818.79	2996818.90	0.2686	0.0312 *
Mars	3493-08-18 23:02 G	2997082.35	2997082.46	2997082.57	0.1845	0.0692
Jupiter	3494-08-04 04:33 G	2997432.56	2997432.69	2997432.81	0.0538	0.0158
Mars	3494-09-13 19:26 G	2997473.17	2997473.31	2997473.44	0.1700	0.0964
Jupiter	3494-11-01 13:11 G	2997521.99	2997522.05	2997522.12	0.0537	0.0459
Venus	3495-04-23 06:43 G	2997694.68	2997694.78	2997694.89	0.3679	0.0679
Venus	3496-11-06 19:26 G	2998258.24	2998258.31	2998258.38	0.3690	0.3222
Saturn	3500-05-13 17:31 G	2999541.15	2999541.23	2999541.31	0.0282	0.0223
Saturn	3500-08-10 06:14 G	2999629.63	2999629.76	2999629.89	0.0283	0.0102
Jupiter	3500-09-17 19:26 G	2999668.13	2999668.31	2999668.49	0.0489	0.0004
Saturn	3500-11-06 18:43 G	2999718.15	2999718.28	2999718.42	0.0284	0.0020
Venus	3500-11-06 23:31 G	2999718.37	2999718.48	2999718.58	0.3680	0.0680 *
Saturn	3501-02-03 07:11 G	2999806.68	2999806.80	2999806.92	0.0284	0.0137

Saturn 3501-05-02 19:26 G 2999895.26 2999895.31 2999895.37 0.0285 0.0256

Mars 3503-01-10 07:40 G 3000512.74 3000512.82 3000512.90 0.1852 0.1380

Mars 3504-02-04 19:11 G 3000903.13 3000903.30 3000903.46 0.1693 0.0084

Mars 3504-12-15 20:09 G 3001218.26 3001218.34 3001218.42 0.1824 0.1314

Moon 3505-12-02 00:28 G 3001569.43 3001569.52 3001569.60 0.2682 0.1673

Earth 3505-12-02 00:43 G 3001569.45 3001569.53 3001569.62 0.2688 0.1686 *

Venus 3506-05-23 16:04 G 3001742.08 3001742.17 3001742.26 0.3680 0.2002

Jupiter 3506-05-24 07:40 G 3001742.72 3001742.82 3001742.93 0.0539 0.0318

Jupiter 3506-08-21 16:48 G 3001832.09 3001832.20 3001832.31 0.0538 0.0307

Venus 3511-12-07 08:24 G 3003765.81 3003765.85 3003765.90 0.3681 0.3293

Jupiter 3512-07-06 18:28 G 3003978.10 3003978.27 3003978.44 0.0489 0.0156

Earth 3512-11-25 00:14 G 3004119.45 3004119.51 3004119.57 0.2683 0.2234

Moon 3512-11-25 00:57 G 3004119.48 3004119.54 3004119.60 0.2685 0.2175 *

Mars 3513-06-26 19:26 G 3004333.17 3004333.31 3004333.46 0.1687 0.0760

Saturn 3514-03-10 02:38 G 3004589.54 3004589.61 3004589.70 0.0278 0.0244

Mars 3514-05-08 05:16 G 3004648.61 3004648.72 3004648.83 0.1831 0.0686

Saturn 3514-06-06 22:19 G 3004678.27 3004678.43 3004678.59 0.0278 0.0102

Saturn 3514-09-03 18:00 G 3004767.08 3004767.25 3004767.43 0.0277 0.0043

Saturn 3514-12-01 14:09 G 3004855.96 3004856.09 3004856.22 0.0276 0.0188

Jupiter 3518-03-12 10:19 G 3006052.88 3006052.93 3006052.99 0.0540 0.0487

Jupiter 3518-06-09 19:55 G 3006142.21 3006142.33 3006142.46 0.0539 0.0149

Pluto 3520-07-20 17:45 G 3006914.21 3006914.24 3006914.30 0.0073 0.0070

Neptune 3520-08-07 06:00 G 3006931.72 3006931.75 3006931.79 0.0089 0.0086

Pluto 3520-10-16 19:40 G 3007002.23 3007002.32 3007002.44 0.0072 0.0058

Neptune 3520-11-03 07:26 G 3007019.75 3007019.81 3007019.88 0.0089 0.0078

Pluto 3521-01-12 21:50 G 3007090.28 3007090.41 3007090.56 0.0072 0.0045

Neptune 3521-01-30 09:07 G 3007107.80 3007107.88 3007107.97 0.0089 0.0071

Pluto 3521-04-10 23:45 G 3007178.34 3007178.49 3007178.66 0.0072 0.0033

Neptune 3521-04-28 10:33 G 3007195.85 3007195.94 3007196.05 0.0089 0.0064

Pluto 3521-07-08 01:55 G 3007266.41 3007266.58 3007266.75 0.0072 0.0021

Neptune 3521-07-25 12:14 G 3007283.91 3007284.01 3007284.12 0.0089 0.0056

Pluto 3521-10-04 03:50 G 3007354.48 3007354.66 3007354.84 0.0072 0.0009

Neptune 3521-10-21 13:55 G 3007371.96 3007372.08 3007372.20 0.0089 0.0049

Pluto 3521-12-31 05:45 G 3007442.56 3007442.74 3007442.92 0.0072 0.0002

Neptune 3522-01-17 15:21 G 3007460.02 3007460.14 3007460.27 0.0089 0.0042

Pluto 3522-03-29 07:40 G 3007530.64 3007530.82 3007530.99 0.0072 0.0014

Neptune 3522-04-15 16:48 G 3007548.08 3007548.20 3007548.34 0.0089 0.0035

Moon 3522-05-24 22:19 G 3007587.41 3007587.43 3007587.46 0.2650 0.2592

Earth 3522-05-25 00:00 G 3007587.42 3007587.50 3007587.57 0.2648 0.2313 *

Pluto 3522-06-25 09:21 G 3007618.73 3007618.89 3007619.06 0.0072 0.0026

Neptune 3522-07-12 18:28 G 3007636.14 3007636.27 3007636.41 0.0089 0.0027

Pluto 3522-09-21 11:02 G 3007706.82 3007706.96 3007707.13 0.0071 0.0037

Neptune 3522-10-08 20:09 G 3007724.20 3007724.34 3007724.47 0.0089 0.0020

Mars 3522-11-16 20:09 G 3007763.29 3007763.34 3007763.39 0.1681 0.1577

Pluto 3522-12-18 12:57 G 3007794.92 3007795.04 3007795.18 0.0071 0.0048

Neptune 3523-01-04 21:35 G 3007812.27 3007812.40 3007812.54 0.0089 0.0012

Pluto 3523-03-16 14:52 G 3007883.03 3007883.12 3007883.22 0.0071 0.0060

Neptune 3523-04-02 23:16 G 3007900.33 3007900.47 3007900.60 0.0089 0.0006

Pluto 3523-06-12 16:48 G 3007971.19 3007971.20 3007971.22 0.0071 0.0071

Neptune 3523-06-30 00:43 G 3007988.39 3007988.53 3007988.67 0.0089 0.0002

Neptune 3523-09-26 02:09 G 3008076.46 3008076.59 3008076.73 0.0089 0.0010

Mars 3523-09-28 14:24 G 3008078.98 3008079.10 3008079.21 0.1838 0.0062

Neptune 3523-12-23 03:50 G 3008164.52 3008164.66 3008164.79 0.0089 0.0017

Neptune 3524-03-20 05:16 G 3008252.59 3008252.72 3008252.85 0.0089 0.0024

Jupiter 3524-04-24 17:45 G 3008288.11 3008288.24 3008288.38 0.0488 0.0311

Neptune 3524-06-16 06:43 G 3008340.65 3008340.78 3008340.91 0.0089 0.0031

Jupiter 3524-07-23 20:38 G 3008378.23 3008378.36 3008378.48 0.0489 0.0339

Neptune 3524-09-12 08:09 G 3008428.72 3008428.84 3008428.97 0.0089 0.0038

Neptune 3524-12-09 09:35 G 3008516.79 3008516.90 3008517.02 0.0089 0.0045

Neptune 3525-03-07 11:02 G 3008604.86 3008604.96 3008605.08 0.0089 0.0052

Neptune 3525-06-03 12:28 G 3008692.93 3008693.02 3008693.13 0.0089 0.0060

Neptune 3525-08-30 13:55 G 3008781.00 3008781.08 3008781.18 0.0089 0.0067

Neptune 3525-11-26 15:21 G 3008869.08 3008869.14 3008869.23 0.0089 0.0074

Earth 3525-11-27 18:00 G 3008870.15 3008870.25 3008870.36 0.2685 0.0826

Moon 3525-11-27 18:43 G 3008870.17 3008870.28 3008870.38 0.2680 0.0720 *

Neptune 3526-02-22 16:48 G 3008957.16 3008957.20 3008957.27 0.0089 0.0081

Neptune 3526-05-21 18:14 G 3009045.25 3009045.26 3009045.30 0.0089 0.0088

Saturn 3529-09-30 19:26 G 3010273.27 3010273.31 3010273.37 0.0281 0.0257

Saturn 3529-12-28 08:24 G 3010361.73 3010361.85 3010361.97 0.0282 0.0137

Saturn 3530-03-26 20:52 G 3010450.24 3010450.37 3010450.51 0.0282 0.0019

Jupiter 3530-03-28 23:45 G 3010452.36 3010452.49 3010452.62 0.0539 0.0008

Saturn 3530-06-23 09:21 G 3010538.77 3010538.89 3010539.02 0.0283 0.0102

Saturn 3530-09-19 21:35 G 3010627.32 3010627.40 3010627.49 0.0284 0.0220

Uranus 3532-03-01 16:04 G 3011156.12 3011156.17 3011156.21 0.0134 0.0126

Uranus 3532-05-28 18:57 G 3011244.22 3011244.29 3011244.38 0.0134 0.0109

Uranus 3532-08-24 22:33 G 3011332.34 3011332.44 3011332.54 0.0134 0.0091

Uranus 3532-11-21 01:40 G 3011420.46 3011420.57 3011420.68 0.0134 0.0073

Uranus 3533-02-17 04:48 G 3011508.58 3011508.70 3011508.83 0.0134 0.0056

Mars 3533-02-17 23:16 G 3011509.36 3011509.47 3011509.58 0.1845 0.0622

Uranus 3533-05-16 08:09 G 3011596.71 3011596.84 3011596.97 0.0135 0.0038

Uranus 3533-08-12 11:16 G 3011684.84 3011684.97 3011685.10 0.0135 0.0021

Uranus 3533-11-08 14:24 G 3011772.97 3011773.10 3011773.24 0.0135 0.0005

Uranus 3534-02-04 17:31 G 3011861.10 3011861.23 3011861.37 0.0135 0.0014

Mars 3534-03-15 19:55 G 3011900.20 3011900.33 3011900.46 0.1700 0.1048

Uranus 3534-05-03 20:52 G 3011949.24 3011949.37 3011949.50 0.0135 0.0031

Uranus 3534-07-31 00:00 G 3012037.37 3012037.50 3012037.62 0.0135 0.0048

Uranus 3534-10-27 03:07 G 3012125.51 3012125.63 3012125.75 0.0135 0.0065

Uranus 3535-01-23 06:00 G 3012213.66 3012213.75 3012213.86 0.0135 0.0083

Uranus 3535-04-21 09:07 G 3012301.80 3012301.88 3012301.98 0.0135 0.0100

Moon 3535-05-28 05:16 G 3012338.57 3012338.72 3012338.88 0.2653 0.0413

Earth 3535-05-28 06:14 G 3012338.61 3012338.76 3012338.92 0.2646 0.0467 *

Uranus 3535-07-18 12:14 G 3012389.96 3012390.01 3012390.08 0.0135 0.0117

Uranus 3535-10-14 15:21 G 3012478.14 3012478.14 3012478.16 0.0135 0.0135

Jupiter 3536-02-11 17:02 G 3012598.16 3012598.21 3012598.25 0.0488 0.0469

Jupiter 3536-05-11 18:57 G 3012688.13 3012688.29 3012688.46 0.0489 0.0173

Moon 3538-11-30 12:00 G 3013620.89 3013621.00 3013621.11 0.2680 0.0610

Earth 3538-11-30 11:45 G 3013620.89 3013620.99 3013621.10 0.2687 0.0593 *

Venus 3540-10-29 18:43 G 3014320.22 3014320.28 3014320.34 0.3677 0.3019

Jupiter 3542-01-15 03:35 G 3014762.52 3014762.65 3014762.78 0.0539 0.0148

Jupiter 3542-04-14 12:14 G 3014851.96 3014852.01 3014852.08 0.0538 0.0472

Venus 3542-05-15 11:45 G 3014882.87 3014882.99 3014883.11 0.3692 0.1994

Mars 3542-07-11 07:40 G 3014939.74 3014939.82 3014939.90 0.1852 0.1313

Mars 3543-08-05 19:55 G 3015330.16 3015330.33 3015330.49 0.1693 0.0177

Saturn 3543-10-24 19:26 G 3015410.17 3015410.31 3015410.45 0.0278 0.0160

Saturn 3544-01-21 15:07 G 3015498.96 3015499.13 3015499.31 0.0277 0.0017

Saturn 3544-04-19 11:02 G 3015587.80 3015587.96 3015588.12 0.0277 0.0128

Mars 3544-06-15 20:09 G 3015645.27 3015645.34 3015645.42 0.1824 0.1381

Saturn 3544-07-17 07:11 G 3015676.79 3015676.80 3015676.82 0.0276 0.0274

Venus 3546-05-15 11:45 G 3016343.89 3016343.99 3016344.09 0.3678 0.1604

Venus 3547-11-29 15:50 G 3016907.02 3016907.16 3016907.30 0.3691 0.1030

Jupiter 3548-02-28 18:14 G 3016998.08 3016998.26 3016998.43 0.0489 0.0015

Venus 3551-11-29 04:33 G 3018367.58 3018367.69 3018367.80 0.3679 0.0229

Moon 3551-12-03 05:16 G 3018371.64 3018371.72 3018371.79 0.2682 0.1864

Earth 3551-12-03 05:31 G 3018371.66 3018371.73 3018371.81 0.2688 0.1974 *

Mars 3552-12-25 20:09 G 3018760.19 3018760.34 3018760.49 0.1687 0.0670

Jupiter 3553-11-03 06:43 G 3019072.68 3019072.78 3019072.89 0.0539 0.0307

Mars 3553-11-06 05:16 G 3019075.62 3019075.72 3019075.83 0.1831 0.0751

Jupiter 3554-01-31 15:50 G 3019162.06 3019162.16 3019162.27 0.0538 0.0319

Venus 3557-06-13 21:21 G 3020391.28 3020391.39 3020391.49 0.3680 0.1124

Earth 3558-11-26 05:02 G 3020921.64 3020921.71 3020921.79 0.2684 0.1937

Moon 3558-11-26 05:45 G 3020921.66 3020921.74 3020921.82 0.2683 0.1781 *

Saturn 3559-05-17 09:21 G 3021093.79 3021093.89 3021094.00 0.0282 0.0179

Saturn 3559-08-13 22:04 G 3021182.29 3021182.42 3021182.56 0.0283 0.0059

Saturn 3559-11-10 10:33 G 3021270.81 3021270.94 3021271.08 0.0284 0.0061

Jupiter 3559-12-17 17:16 G 3021308.05 3021308.22 3021308.39 0.0489 0.0145

Saturn 3560-02-06 23:02 G 3021359.35 3021359.46 3021359.56 0.0284 0.0180

Mars 3562-05-17 20:52 G 3022190.30 3022190.37 3022190.45 0.1681 0.1481

Venus 3562-12-28 13:40 G 3022415.00 3022415.07 3022415.15 0.3681 0.2432

Mars 3563-03-29 14:24 G 3022505.98 3022506.10 3022506.22 0.1838 0.0108

Jupiter 3565-08-22 09:50 G 3023382.85 3023382.91 3023382.97 0.0539 0.0469

Jupiter 3565-11-19 19:11 G 3023472.18 3023472.30 3023472.43 0.0538 0.0165

Moon 3568-05-25 05:02 G 3024389.60 3024389.71 3024389.82 0.2652 0.1844

Earth 3568-05-25 06:28 G 3024389.65 3024389.77 3024389.88 0.2648 0.1772 *

Jupiter 3571-10-05 16:33 G 3025618.06 3025618.19 3025618.33 0.0488 0.0300

Earth 3571-11-28 23:02 G 3025672.35 3025672.46 3025672.56 0.2685 0.0532

Moon 3571-11-28 23:31 G 3025672.37 3025672.48 3025672.59 0.2680 0.0478 *

Jupiter 3572-01-03 19:11 G 3025708.18 3025708.30 3025708.43 0.0489 0.0350

Mars 3572-08-18 23:02 G 3025936.35 3025936.46 3025936.57 0.1845 0.0563

Uranus 3572-12-19 22:33 G 3026059.40 3026059.44 3026059.49 0.0144 0.0138

Saturn 3573-03-12 19:26 G 3026142.20 3026142.31 3026142.44 0.0278 0.0200

Uranus 3573-03-18 06:14 G 3026147.65 3026147.76 3026147.89 0.0144 0.0109

Saturn 3573-06-09 15:07 G 3026230.96 3026231.13 3026231.30 0.0278 0.0057

Uranus 3573-06-14 14:09 G 3026235.94 3026236.09 3026236.25 0.0144 0.0080

Saturn 3573-09-06 11:02 G 3026319.80 3026319.96 3026320.13 0.0277 0.0088

Uranus 3573-09-10 21:50 G 3026324.25 3026324.41 3026324.60 0.0144 0.0051

Mars 3573-09-13 20:52 G 3026327.25 3026327.37 3026327.49 0.1700 0.1153

Saturn 3573-12-04 07:11 G 3026408.71 3026408.80 3026408.89 0.0276 0.0234

Uranus 3573-12-08 06:00 G 3026412.56 3026412.75 3026412.94 0.0144 0.0021

Uranus 3574-03-06 13:55 G 3026500.89 3026501.08 3026501.27 0.0144 0.0009

Uranus 3574-06-02 21:50 G 3026589.23 3026589.41 3026589.59 0.0144 0.0039

Uranus 3574-08-30 05:45 G 3026677.58 3026677.74 3026677.91 0.0143 0.0068

Uranus 3574-11-26 13:40 G 3026765.94 3026766.07 3026766.22 0.0143 0.0099

Uranus 3575-02-22 21:35 G 3026854.34 3026854.40 3026854.50 0.0143 0.0129

Jupiter 3577-09-07 22:04 G 3027782.29 3027782.42 3027782.56 0.0539 0.0016

Moon 3581-05-28 12:00 G 3029140.86 3029141.00 3029141.15 0.2652 0.0863

Earth 3581-05-28 12:57 G 3029140.89 3029141.04 3029141.18 0.2646 0.1029 *

Mars 3582-01-09 07:55 G 3029366.74 3029366.83 3029366.91 0.1852 0.1241

Mars 3583-02-03 20:24 G 3029757.19 3029757.35 3029757.52 0.1693 0.0269

Jupiter 3583-07-24 16:04 G 3029928.11 3029928.17 3029928.24 0.0488 0.0453

Jupiter 3583-10-22 18:14 G 3030018.10 3030018.26 3030018.42 0.0489 0.0188

Mars 3583-12-15 20:09 G 3030072.27 3030072.34 3030072.41 0.1824 0.1438

Moon 3584-11-30 16:33 G 3030423.09 3030423.19 3030423.30 0.2680 0.0872

Earth 3584-11-30 16:48 G 3030423.09 3030423.20 3030423.30 0.2687 0.0879 *

Saturn 3588-10-03 11:45 G 3031825.90 3031825.99 3031826.09 0.0281 0.0210

Saturn 3588-12-31 00:28 G 3031914.39 3031914.52 3031914.66 0.0282 0.0090

Saturn 3589-03-29 13:11 G 3032002.91 3032003.05 3032003.18 0.0282 0.0030

Saturn 3589-06-26 01:26 G 3032091.45 3032091.56 3032091.68 0.0283 0.0147

Jupiter 3589-06-27 01:55 G 3032092.45 3032092.58 3032092.70 0.0539 0.0151

Saturn 3589-09-22 13:40 G 3032180.03 3032180.07 3032180.12 0.0284 0.0265

Jupiter 3589-09-24 10:48 G 3032181.89 3032181.95 3032182.01 0.0538 0.0470

Mars 3592-06-25 20:38 G 3033187.21 3033187.36 3033187.52 0.1687 0.0586

Mars 3593-05-07 05:31 G 3033502.63 3033502.73 3033502.83 0.1831 0.0822

Jupiter 3595-08-10 16:48 G 3034328.02 3034328.20 3034328.38 0.0489 0.0022

Venus 3597-06-05 16:33 G 3034993.12 3034993.19 3034993.27 0.3678 0.2551

Moon 3597-12-03 09:50 G 3035173.86 3035173.91 3035173.98 0.2683 0.2216

Earth 3597-12-03 10:19 G 3035173.88 3035173.93 3035173.99 0.2688 0.2260 *

Venus 3598-12-20 12:28 G 3035555.89 3035556.02 3035556.16 0.3692 0.1074

Jupiter 3601-04-15 05:31 G 3036402.62 3036402.73 3036402.84 0.0539 0.0301

Jupiter 3601-07-13 14:38 G 3036492.01 3036492.11 3036492.22 0.0538 0.0327

Mars 3601-11-15 21:35 G 3036617.31 3036617.40 3036617.49 0.1681 0.1393

Saturn 3602-07-30 17:31 G 3036874.17 3036874.23 3036874.30 0.0279 0.0253

Mars 3602-09-27 14:24 G 3036932.98 3036933.10 3036933.21 0.1838 0.0171

Saturn 3602-10-27 12:57 G 3036962.88 3036963.04 3036963.20 0.0278 0.0111

Venus 3602-12-20 09:35 G 3037016.80 3037016.90 3037017.00 0.3679 0.1148

Saturn 3603-01-24 08:52 G 3037051.69 3037051.87 3037052.04 0.0277 0.0034

Neptune 3603-01-24 14:52 G 3037052.12 3037052.12 3037052.15 0.0088 0.0088

Neptune 3603-04-22 17:45 G 3037140.18 3037140.24 3037140.33 0.0088 0.0079

Saturn 3603-04-23 04:33 G 3037140.56 3037140.69 3037140.83 0.0276 0.0179

Neptune 3603-07-19 20:52 G 3037228.27 3037228.37 3037228.49 0.0088 0.0070

Neptune 3603-10-15 23:45 G 3037316.37 3037316.49 3037316.63 0.0088 0.0061

Neptune 3604-01-12 02:52 G 3037404.48 3037404.62 3037404.77 0.0088 0.0052

Neptune 3604-04-09 06:00 G 3037492.59 3037492.75 3037492.91 0.0088 0.0043

Venus 3604-07-05 16:48 G 3037580.08 3037580.20 3037580.32 0.3691 0.1990

Neptune 3604-07-06 08:38 G 3037580.71 3037580.86 3037581.04 0.0088 0.0035

Neptune 3604-10-02 11:45 G 3037668.83 3037668.99 3037669.18 0.0088 0.0026

Earth 3604-11-26 09:50 G 3037723.83 3037723.91 3037724.00 0.2684 0.1644

Moon 3604-11-26 10:33 G 3037723.86 3037723.94 3037724.03 0.2682 0.1606 *

Neptune 3604-12-29 14:52 G 3037756.95 3037757.12 3037757.31 0.0088 0.0017

Neptune 3605-03-27 18:00 G 3037845.07 3037845.25 3037845.44 0.0088 0.0008

Neptune 3605-06-23 21:07 G 3037933.20 3037933.38 3037933.56 0.0088 0.0002

Neptune 3605-09-20 00:14 G 3038021.33 3038021.51 3038021.69 0.0088 0.0011

Neptune 3605-12-17 03:07 G 3038109.46 3038109.63 3038109.82 0.0088 0.0020

Neptune 3606-03-15 06:14 G 3038197.59 3038197.76 3038197.94 0.0088 0.0029

Neptune 3606-06-11 09:21 G 3038285.73 3038285.89 3038286.06 0.0088 0.0038

Neptune 3606-09-07 12:14 G 3038373.87 3038374.01 3038374.18 0.0088 0.0048

Neptune 3606-12-04 15:21 G 3038462.01 3038462.14 3038462.30 0.0088 0.0057

Neptune 3607-03-02 18:28 G 3038550.16 3038550.27 3038550.41 0.0088 0.0066

Jupiter 3607-05-29 15:50 G 3038637.99 3038638.16 3038638.33 0.0489 0.0137

Neptune 3607-05-29 21:50 G 3038638.32 3038638.41 3038638.51 0.0088 0.0075 *

Neptune 3607-08-26 01:11 G 3038726.50 3038726.55 3038726.60 0.0088 0.0084

Venus 3608-07-05 02:24 G 3039040.49 3039040.60 3039040.71 0.3680 0.0224

Mars 3612-02-17 23:16 G 3040363.36 3040363.47 3040363.58 0.1845 0.0489

Jupiter 3613-02-01 08:38 G 3040712.80 3040712.86 3040712.93 0.0539 0.0461

Mars 3613-03-14 21:35 G 3040754.28 3040754.40 3040754.51 0.1700 0.1248

Jupiter 3613-05-01 18:14 G 3040802.13 3040802.26 3040802.38 0.0538 0.0173

Venus 3614-01-18 18:57 G 3041064.20 3041064.29 3041064.39 0.3680 0.1547

Moon 3614-05-26 11:45 G 3041191.86 3041191.99 3041192.11 0.2653 0.1501

Earth 3614-05-26 12:57 G 3041191.90 3041192.04 3041192.18 0.2648 0.1230 *

Uranus 3616-03-21 23:16 G 3041857.42 3041857.47 3041857.54 0.0134 0.0120

Uranus 3616-06-18 02:38 G 3041945.53 3041945.61 3041945.70 0.0134 0.0103

Uranus 3616-09-14 05:45 G 3042033.65 3042033.74 3042033.85 0.0134 0.0086

Uranus 3616-12-11 09:07 G 3042121.77 3042121.88 3042122.00 0.0134 0.0068

Uranus 3617-03-09 12:14 G 3042209.89 3042210.01 3042210.14 0.0134 0.0051

Uranus 3617-06-05 15:35 G 3042298.02 3042298.15 3042298.28 0.0135 0.0033

Uranus 3617-09-01 18:43 G 3042386.15 3042386.28 3042386.42 0.0135 0.0016

Uranus 3617-11-28 22:04 G 3042474.28 3042474.42 3042474.55 0.0135 0.0005

Earth 3617-11-29 03:50 G 3042474.55 3042474.66 3042474.77 0.2685 0.0241 *

Moon 3617-11-29 04:19 G 3042474.57 3042474.68 3042474.79 0.2680 0.0158 *

Saturn 3618-02-20 12:57 G 3042557.98 3042558.04 3042558.10 0.0281 0.0251

Uranus 3618-02-25 00:57 G 3042562.41 3042562.54 3042562.68 0.0135 0.0020

Saturn 3618-05-20 01:40 G 3042646.45 3042646.57 3042646.69 0.0282 0.0131

Uranus 3618-05-24 04:04 G 3042650.55 3042650.67 3042650.81 0.0135 0.0037

Saturn 3618-08-16 14:24 G 3042734.96 3042735.10 3042735.23 0.0283 0.0013

Uranus 3618-08-20 07:11 G 3042738.69 3042738.80 3042738.93 0.0135 0.0054

Saturn 3618-11-13 02:52 G 3042823.49 3042823.62 3042823.74 0.0284 0.0108

Uranus 3618-11-16 10:33 G 3042826.83 3042826.94 3042827.05 0.0135 0.0071

Saturn 3619-02-09 15:07 G 3042912.05 3042912.13 3042912.21 0.0284 0.0226

Uranus 3619-02-12 13:40 G 3042914.97 3042915.07 3042915.17 0.0135 0.0088

Jupiter 3619-03-17 15:07 G 3042947.99 3042948.13 3042948.27 0.0489 0.0293

Uranus 3619-05-11 16:48 G 3043003.12 3043003.20 3043003.28 0.0135 0.0105

Jupiter	3619-06-15 17:45 G	3043038.13	3043038.24	3043038.37	0.0490	0.0358
Venus	3619-08-04 11:31 G	3043087.91	3043087.98	3043088.04	0.3681	0.2841
Uranus	3619-08-07 19:55 G	3043091.28	3043091.33	3043091.39	0.0135	0.0122
Mars	3621-07-10 07:40 G	3043793.74	3043793.82	3043793.91	0.1851	0.1181
Mars	3622-08-04 21:21 G	3044184.23	3044184.39	3044184.55	0.1694	0.0365
Mars	3623-06-15 20:24 G	3044499.28	3044499.35	3044499.41	0.1823	0.1507
Jupiter	3625-02-17 21:21 G	3045112.26	3045112.39	3045112.53	0.0538	0.0024
Moon	3627-05-29 18:57 G	3045943.16	3045943.29	3045943.41	0.2652	0.1598
Earth	3627-05-29 19:26 G	3045943.18	3045943.31	3045943.43	0.2646	0.1575 *
Moon	3630-12-01 21:21 G	3047225.29	3047225.39	3047225.49	0.2680	0.1112
Earth	3630-12-01 21:35 G	3047225.30	3047225.40	3047225.50	0.2687	0.1170 *
Jupiter	3631-01-03 14:38 G	3047258.04	3047258.11	3047258.18	0.0488	0.0444
Jupiter	3631-04-03 16:48 G	3047348.04	3047348.20	3047348.36	0.0489	0.0197
Mars	3631-12-25 21:35 G	3047614.24	3047614.40	3047614.56	0.1687	0.0486
Saturn	3632-03-15 13:11 G	3047694.90	3047695.05	3047695.19	0.0278	0.0150
Saturn	3632-06-12 08:52 G	3047783.69	3047783.87	3047784.04	0.0277	0.0007
Saturn	3632-09-09 04:48 G	3047872.55	3047872.70	3047872.85	0.0277	0.0138
Mars	3632-11-05 05:16 G	3047929.62	3047929.72	3047929.83	0.1831	0.0881
Jupiter	3636-12-07 00:14 G	3049422.38	3049422.51	3049422.63	0.0539	0.0155
Jupiter	3637-03-06 09:07 G	3049511.81	3049511.88	3049511.94	0.0538	0.0467
Mars	3641-05-16 22:04 G	3051044.32	3051044.42	3051044.52	0.1681	0.1309
Mars	3642-03-28 14:24 G	3051359.99	3051360.10	3051360.22	0.1838	0.0248
Jupiter	3643-01-20 15:50 G	3051657.98	3051658.16	3051658.34	0.0489	0.0036
Moon	3643-12-04 14:38 G	3051976.07	3051976.11	3051976.15	0.2685	0.2458
Earth	3643-12-04 15:07 G	3051976.10	3051976.13	3051976.17	0.2688	0.2548 *
Saturn	3647-07-10 15:50 G	3053290.15	3053290.16	3053290.18	0.0281	0.0278
Saturn	3647-10-07 04:33 G	3053378.58	3053378.69	3053378.81	0.0281	0.0158
Saturn	3648-01-03 17:16 G	3053467.08	3053467.22	3053467.36	0.0282	0.0039
Saturn	3648-04-01 05:45 G	3053555.61	3053555.74	3053555.87	0.0283	0.0080
Venus	3648-06-26 21:21 G	3053642.36	3053642.39	3053642.42	0.3677	0.3509

Saturn	3648-06-28 18:00	G	3053644.16	3053644.25	3053644.35	0.0283	0.0198
Jupiter	3648-09-25 03:35	G	3053732.54	3053732.65	3053732.76	0.0540	0.0308
Jupiter	3648-12-23 12:57	G	3053821.93	3053822.04	3053822.14	0.0538	0.0321
Venus	3650-01-10 09:35	G	3054204.83	3054204.90	3054204.98	0.3693	0.3072
Earth	3650-11-27 14:52	G	3054526.02	3054526.12	3054526.21	0.2684	0.1355
Moon	3650-11-27 15:21	G	3054526.04	3054526.14	3054526.24	0.2681	0.1187 *
Mars	3651-08-18 23:16	G	3054790.36	3054790.47	3054790.58	0.1844	0.0423
Mars	3652-09-12 22:04	G	3055181.32	3055181.42	3055181.52	0.1700	0.1335
Venus	3654-01-10 14:24	G	3055666.02	3055666.10	3055666.19	0.3678	0.2090
Jupiter	3654-11-08 14:24	G	3055967.93	3055968.10	3055968.27	0.0488	0.0130
Venus	3655-07-27 13:26	G	3056228.91	3056229.06	3056229.20	0.3691	0.0166
Uranus	3657-01-09 05:31	G	3056760.67	3056760.73	3056760.82	0.0144	0.0132
Uranus	3657-04-07 13:11	G	3056848.94	3056849.05	3056849.20	0.0144	0.0103
Uranus	3657-07-04 21:07	G	3056937.23	3056937.38	3056937.55	0.0144	0.0074
Uranus	3657-10-01 05:16	G	3057025.54	3057025.72	3057025.90	0.0144	0.0044
Uranus	3657-12-28 13:11	G	3057113.86	3057114.05	3057114.23	0.0144	0.0015
Uranus	3658-03-26 21:07	G	3057202.19	3057202.38	3057202.57	0.0144	0.0015
Uranus	3658-06-23 05:02	G	3057290.53	3057290.71	3057290.89	0.0144	0.0045
Uranus	3658-09-19 12:57	G	3057378.88	3057379.04	3057379.20	0.0143	0.0075
Uranus	3658-12-16 20:52	G	3057467.25	3057467.37	3057467.51	0.0143	0.0105
Uranus	3659-03-15 04:48	G	3057555.65	3057555.70	3057555.78	0.0143	0.0135
Venus	3659-07-27 07:26	G	3057689.70	3057689.81	3057689.91	0.3679	0.0713
Moon	3660-05-26 18:14	G	3057994.11	3057994.26	3057994.41	0.2653	0.0747
Earth	3660-05-26 19:26	G	3057994.16	3057994.31	3057994.47	0.2648	0.0684 *
Jupiter	3660-07-14 07:11	G	3058042.74	3058042.80	3058042.87	0.0540	0.0460
Jupiter	3660-10-11 16:48	G	3058132.08	3058132.20	3058132.32	0.0539	0.0176
Mars	3661-01-08 07:55	G	3058220.73	3058220.83	3058220.92	0.1851	0.1110
Venus	3661-02-09 17:45	G	3058253.15	3058253.24	3058253.32	0.3690	0.2956
Saturn	3661-08-02 11:45	G	3058426.87	3058426.99	3058427.11	0.0278	0.0199
Saturn	3661-10-30 07:11	G	3058515.63	3058515.80	3058515.97	0.0278	0.0057

Saturn 3662-01-27 02:52 G 3058604.46 3058604.62 3058604.80 0.0277 0.0088

Mars 3662-02-02 21:50 G 3058611.26 3058611.41 3058611.57 0.1694 0.0457

Saturn 3662-04-25 23:02 G 3058693.37 3058693.46 3058693.56 0.0276 0.0233

Mars 3662-12-14 20:24 G 3058926.29 3058926.35 3058926.40 0.1823 0.1569

Earth 3663-11-30 08:38 G 3059276.75 3059276.86 3059276.97 0.2685 0.0076

Moon 3663-11-30 08:52 G 3059276.76 3059276.87 3059276.98 0.2680 0.0055 *

Venus 3665-02-09 00:00 G 3059713.40 3059713.50 3059713.61 0.3680 0.0673

Jupiter 3666-08-27 13:26 G 3060277.92 3060278.06 3060278.21 0.0488 0.0287

Jupiter 3666-11-25 16:04 G 3060368.06 3060368.17 3060368.29 0.0489 0.0363

Mars 3670-05-31 16:19 G 3061651.16 3061651.18 3061651.20 0.1858 0.1810

Venus 3670-08-25 16:33 G 3061737.11 3061737.19 3061737.28 0.3681 0.1971

Mars 3671-06-25 22:19 G 3062041.27 3062041.43 3062041.59 0.1687 0.0392

Mars 3672-05-06 05:31 G 3062356.63 3062356.73 3062356.83 0.1830 0.0948

Jupiter 3672-07-30 20:09 G 3062442.21 3062442.34 3062442.47 0.0539 0.0023

Moon 3673-05-30 01:55 G 3062745.48 3062745.58 3062745.68 0.2652 0.2032

Earth 3673-05-30 01:55 G 3062745.49 3062745.58 3062745.67 0.2646 0.2137 *

Venus 3676-03-10 09:07 G 3063760.83 3063760.88 3063760.93 0.3682 0.3256

Moon 3676-12-02 02:09 G 3064027.50 3064027.59 3064027.68 0.2680 0.1460

Earth 3676-12-02 02:24 G 3064027.51 3064027.60 3064027.69 0.2687 0.1456 *

Saturn 3677-02-23 05:45 G 3064110.65 3064110.74 3064110.84 0.0282 0.0199

Saturn 3677-05-22 18:28 G 3064199.14 3064199.27 3064199.41 0.0282 0.0079

Saturn 3677-08-19 07:11 G 3064287.66 3064287.80 3064287.93 0.0283 0.0041

Saturn 3677-11-15 19:26 G 3064376.20 3064376.31 3064376.43 0.0284 0.0159

Saturn 3678-02-12 07:40 G 3064464.79 3064464.82 3064464.85 0.0285 0.0276

Jupiter 3678-06-15 12:43 G 3064587.97 3064588.03 3064588.11 0.0488 0.0443

Jupiter 3678-09-13 14:52 G 3064677.96 3064678.12 3064678.29 0.0489 0.0201

Mars 3680-11-14 22:48 G 3065471.34 3065471.45 3065471.56 0.1681 0.1218

Mars 3681-09-26 14:24 G 3065786.99 3065787.10 3065787.22 0.1837 0.0304

Pluto 3683-06-17 20:24 G 3066416.29 3066416.35 3066416.41 0.0071 0.0064

Pluto 3683-09-13 20:52 G 3066504.30 3066504.37 3066504.47 0.0071 0.0055

Earth 3683-11-26 01:40 G 3066577.53 3066577.57 3066577.61 0.2682 0.2476

Moon 3683-11-26 02:24 G 3066577.55 3066577.60 3066577.65 0.2684 0.2350 *

Pluto 3683-12-10 21:50 G 3066592.31 3066592.41 3066592.52 0.0071 0.0046

Pluto 3684-03-07 22:48 G 3066680.34 3066680.45 3066680.57 0.0071 0.0037

Jupiter 3684-05-18 23:16 G 3066752.35 3066752.47 3066752.60 0.0539 0.0141

Pluto 3684-06-03 23:31 G 3066768.36 3066768.48 3066768.62 0.0072 0.0029

Jupiter 3684-08-16 08:09 G 3066841.79 3066841.84 3066841.90 0.0537 0.0479

Pluto 3684-08-31 00:28 G 3066856.39 3066856.52 3066856.66 0.0072 0.0020

Pluto 3684-11-27 01:26 G 3066944.42 3066944.56 3066944.70 0.0072 0.0011

Pluto 3685-02-23 02:24 G 3067032.46 3067032.60 3067032.74 0.0072 0.0002

Neptune 3685-05-04 05:02 G 3067102.68 3067102.71 3067102.77 0.0089 0.0084

Pluto 3685-05-22 03:07 G 3067120.49 3067120.63 3067120.77 0.0072 0.0008

Neptune 3685-07-31 06:43 G 3067190.72 3067190.78 3067190.86 0.0089 0.0077

Pluto 3685-08-18 04:04 G 3067208.53 3067208.67 3067208.81 0.0072 0.0017

Neptune 3685-10-27 08:09 G 3067278.77 3067278.84 3067278.94 0.0089 0.0070

Pluto 3685-11-14 05:02 G 3067296.58 3067296.71 3067296.84 0.0072 0.0026

Neptune 3686-01-23 10:04 G 3067366.82 3067366.92 3067367.02 0.0089 0.0062

Pluto 3686-02-10 05:31 G 3067384.62 3067384.73 3067384.87 0.0072 0.0037

Neptune 3686-04-21 11:31 G 3067454.88 3067454.98 3067455.10 0.0089 0.0055

Pluto 3686-05-09 06:28 G 3067472.68 3067472.77 3067472.89 0.0073 0.0046

Neptune 3686-07-18 12:57 G 3067542.93 3067543.04 3067543.17 0.0089 0.0048

Pluto 3686-08-05 07:40 G 3067560.73 3067560.82 3067560.91 0.0073 0.0055

Neptune 3686-10-14 14:52 G 3067630.99 3067631.12 3067631.24 0.0089 0.0040

Pluto 3686-11-01 08:24 G 3067648.80 3067648.85 3067648.93 0.0073 0.0065

Neptune 3687-01-10 16:19 G 3067719.05 3067719.18 3067719.31 0.0089 0.0032

Neptune 3687-04-08 17:45 G 3067807.11 3067807.24 3067807.38 0.0089 0.0025

Neptune 3687-07-05 19:26 G 3067895.17 3067895.31 3067895.45 0.0089 0.0018

Neptune 3687-10-01 20:52 G 3067983.24 3067983.37 3067983.51 0.0089 0.0011

Neptune 3687-12-28 22:33 G 3068071.30 3068071.44 3068071.58 0.0089 0.0003

Neptune 3688-03-26 00:00 G 3068159.36 3068159.50 3068159.64 0.0089 0.0004

Neptune 3688-06-22 01:26 G 3068247.43 3068247.56 3068247.70 0.0089 0.0012

Neptune 3688-09-18 03:07 G 3068335.49 3068335.63 3068335.76 0.0089 0.0018

Neptune 3688-12-15 04:33 G 3068423.56 3068423.69 3068423.82 0.0089 0.0025

Neptune 3689-03-13 06:00 G 3068511.63 3068511.75 3068511.88 0.0089 0.0033

Neptune 3689-06-09 07:26 G 3068599.69 3068599.81 3068599.94 0.0089 0.0040

Neptune 3689-09-05 09:07 G 3068687.76 3068687.88 3068687.99 0.0089 0.0047

Neptune 3689-12-02 10:33 G 3068775.83 3068775.94 3068776.05 0.0089 0.0054

Neptune 3690-02-28 12:00 G 3068863.90 3068864.00 3068864.10 0.0089 0.0061

Neptune 3690-05-27 13:11 G 3068951.98 3068952.05 3068952.15 0.0089 0.0069

Jupiter 3690-07-02 14:09 G 3068987.91 3068988.09 3068988.27 0.0489 0.0042

Neptune 3690-08-23 14:38 G 3069040.05 3069040.11 3069040.20 0.0090 0.0076

Neptune 3690-11-19 16:04 G 3069128.13 3069128.17 3069128.24 0.0090 0.0083

Saturn 3690-12-20 12:00 G 3069158.91 3069159.00 3069159.09 0.0278 0.0238

Neptune 3691-02-15 17:45 G 3069216.24 3069216.24 3069216.26 0.0090 0.0089

Mars 3691-02-16 23:16 G 3069217.36 3069217.47 3069217.58 0.1845 0.0360

Saturn 3691-03-19 07:26 G 3069247.65 3069247.81 3069247.98 0.0278 0.0095

Saturn 3691-06-16 03:07 G 3069336.46 3069336.63 3069336.81 0.0277 0.0050

Saturn 3691-09-12 23:02 G 3069425.35 3069425.46 3069425.60 0.0277 0.0195

Mars 3692-03-13 22:48 G 3069608.37 3069608.45 3069608.54 0.1700 0.1439

Jupiter 3696-03-07 01:40 G 3071062.47 3071062.57 3071062.68 0.0539 0.0314

Jupiter 3696-06-04 11:02 G 3071151.85 3071151.96 3071152.06 0.0538 0.0315

Earth 3696-11-27 19:40 G 3071328.22 3071328.32 3071328.42 0.2684 0.1060

Moon 3696-11-27 20:09 G 3071328.24 3071328.34 3071328.45 0.2681 0.1024 *

Uranus 3700-01-14 03:35 G 3072470.64 3072470.65 3072470.68 0.0134 0.0132

Uranus 3700-04-12 06:57 G 3072558.72 3072558.79 3072558.86 0.0134 0.0115

Uranus 3700-07-09 10:04 G 3072646.84 3072646.92 3072647.02 0.0134 0.0097

Mars 3700-07-10 07:55 G 3072647.74 3072647.83 3072647.93 0.1851 0.1039

Uranus 3700-10-05 13:26 G 3072734.95 3072735.06 3072735.17 0.0134 0.0080

Uranus 3701-01-01 16:33 G 3072823.08 3072823.19 3072823.32 0.0134 0.0063

Uranus 3701-03-30 19:55 G 3072911.20 3072911.33 3072911.46 0.0135 0.0045

Uranus 3701-06-26 23:02 G 3072999.33 3072999.46 3072999.60 0.0135 0.0028

Mars 3701-08-04 22:48 G 3073038.29 3073038.45 3073038.60 0.1694 0.0553

Uranus 3701-09-23 02:24 G 3073087.46 3073087.60 3073087.73 0.0135 0.0011

Uranus 3701-12-20 05:31 G 3073175.59 3073175.73 3073175.86 0.0135 0.0008

Uranus 3702-03-18 08:38 G 3073263.73 3073263.86 3073263.99 0.0135 0.0025

Jupiter 3702-04-21 13:11 G 3073297.88 3073298.05 3073298.22 0.0488 0.0118

Uranus 3702-06-14 11:45 G 3073351.86 3073351.99 3073352.12 0.0135 0.0042

Mars 3702-06-15 20:24 G 3073353.30 3073353.35 3073353.40 0.1823 0.1633

Uranus 3702-09-10 14:52 G 3073440.00 3073440.12 3073440.24 0.0135 0.0059

Uranus 3702-12-07 18:00 G 3073528.14 3073528.25 3073528.36 0.0135 0.0076

Uranus 3703-03-05 21:07 G 3073616.29 3073616.38 3073616.48 0.0135 0.0094

Uranus 3703-06-02 00:14 G 3073704.44 3073704.51 3073704.59 0.0135 0.0111

Uranus 3703-08-29 03:21 G 3073792.60 3073792.64 3073792.68 0.0135 0.0128

Venus 3705-02-01 19:26 G 3074315.25 3074315.31 3074315.36 0.3678 0.3041

Moon 3706-05-29 00:57 G 3074796.39 3074796.54 3074796.69 0.2652 0.0359

Earth 3706-05-29 02:09 G 3074796.43 3074796.59 3074796.74 0.2648 0.0145 *

Saturn 3706-07-14 09:07 G 3074842.80 3074842.88 3074842.97 0.0281 0.0222

Venus 3706-08-18 10:19 G 3074877.82 3074877.93 3074878.04 0.3692 0.2173

Saturn 3706-10-10 21:50 G 3074931.28 3074931.41 3074931.54 0.0282 0.0103

Saturn 3707-01-07 10:19 G 3075019.80 3075019.93 3075020.07 0.0282 0.0019

Saturn 3707-04-05 22:48 G 3075108.33 3075108.45 3075108.57 0.0283 0.0135

Saturn 3707-07-03 11:02 G 3075196.90 3075196.96 3075197.02 0.0284 0.0252

Jupiter 3707-12-26 05:02 G 3075372.65 3075372.71 3075372.77 0.0540 0.0471

Jupiter 3708-03-24 14:38 G 3075461.99 3075462.11 3075462.24 0.0539 0.0165

Mars 3709-11-30 16:19 G 3076078.14 3076078.18 3076078.22 0.1858 0.1745

Earth 3709-12-01 13:26 G 3076078.95 3076079.06 3076079.17 0.2686 0.0350

Moon 3709-12-01 13:40 G 3076078.96 3076079.07 3076079.17 0.2679 0.0444 *

Venus 3710-08-18 12:14 G 3076338.92 3076339.01 3076339.11 0.3678 0.1638

Mars 3710-12-25 22:48 G 3076468.29 3076468.45 3076468.61 0.1687 0.0313

Mars 3711-11-06 05:31 G 3076783.64 3076783.73 3076783.83 0.1830 0.1014

Venus	3712-03-03 14:09 G	3076901.95	3076902.09	3076902.23	0.3691	0.0789
Jupiter	3714-02-07 11:45 G	3077607.85	3077607.99	3077608.13	0.0488	0.0284
Jupiter	3714-05-08 14:09 G	3077697.98	3077698.09	3077698.21	0.0489	0.0365
Venus	3716-03-03 05:16 G	3078362.61	3078362.72	3078362.82	0.3679	0.0301
Jupiter	3720-01-11 18:28 G	3079772.14	3079772.27	3079772.40	0.0539	0.0020
Mars	3720-05-16 23:31 G	3079898.36	3079898.48	3079898.60	0.1682	0.1124
Saturn	3720-08-06 06:43 G	3079979.63	3079979.78	3079979.93	0.0278	0.0139
Saturn	3720-11-03 02:24 G	3080068.43	3080068.60	3080068.78	0.0277	0.0005
Saturn	3721-01-30 22:19 G	3080157.28	3080157.43	3080157.58	0.0277	0.0149
Mars	3721-03-28 14:24 G	3080213.99	3080214.10	3080214.22	0.1837	0.0376
Venus	3721-09-16 21:50 G	3080386.31	3080386.41	3080386.51	0.3680	0.1082
Moon	3722-12-04 06:57 G	3080829.70	3080829.79	3080829.87	0.2681	0.1650
Earth	3722-12-04 07:11 G	3080829.72	3080829.80	3080829.88	0.2687	0.1743 *
Jupiter	3725-11-26 11:02 G	3081917.89	3081917.96	3081918.03	0.0488	0.0439
Jupiter	3726-02-24 12:57 G	3082007.88	3082008.04	3082008.21	0.0489	0.0201
Venus	3727-04-02 14:24 G	3082410.02	3082410.10	3082410.18	0.3681	0.2386
Earth	3729-11-27 06:28 G	3083379.71	3083379.77	3083379.84	0.2682	0.2181
Moon	3729-11-27 07:11 G	3083379.74	3083379.80	3083379.87	0.2683	0.2086 *
Mars	3730-08-18 23:16 G	3083644.36	3083644.47	3083644.59	0.1844	0.0294
Mars	3731-09-13 23:45 G	3084035.42	3084035.49	3084035.56	0.1701	0.1540
Jupiter	3731-10-30 21:50 G	3084082.28	3084082.41	3084082.54	0.0539	0.0139
Jupiter	3732-01-28 06:43 G	3084171.73	3084171.78	3084171.84	0.0538	0.0481
Venus	3732-10-16 06:57 G	3084433.78	3084433.79	3084433.79	0.3682	0.3667
Saturn	3735-12-01 10:19 G	3085574.89	3085574.93	3085574.98	0.0281	0.0262
Saturn	3736-02-27 23:16 G	3085663.35	3085663.47	3085663.59	0.0282	0.0142
Saturn	3736-05-26 11:45 G	3085751.86	3085751.99	3085752.13	0.0283	0.0024
Saturn	3736-08-23 00:14 G	3085840.38	3085840.51	3085840.64	0.0283	0.0097
Saturn	3736-11-19 12:43 G	3085928.94	3085929.03	3085929.12	0.0284	0.0214
Jupiter	3737-12-13 12:00 G	3086317.82	3086318.00	3086318.18	0.0489	0.0040
Moon	3739-05-27 00:43 G	3086847.49	3086847.53	3086847.57	0.2652	0.2535

Earth 3739-05-27 02:24 G 3086847.53 3086847.60 3086847.67 0.2649 0.2352 *

Mars 3740-01-09 07:55 G 3087074.73 3087074.83 3087074.93 0.1851 0.0976

Uranus 3741-01-30 12:43 G 3087461.95 3087462.03 3087462.12 0.0144 0.0126

Mars 3741-02-02 23:16 G 3087465.32 3087465.47 3087465.63 0.1694 0.0644

Uranus 3741-04-28 20:09 G 3087550.22 3087550.34 3087550.49 0.0144 0.0098

Uranus 3741-07-26 04:19 G 3087638.52 3087638.68 3087638.84 0.0144 0.0068

Uranus 3741-10-22 12:00 G 3087726.82 3087727.00 3087727.19 0.0144 0.0039

Mars 3741-12-14 20:24 G 3087780.31 3087780.35 3087780.39 0.1823 0.1695

Uranus 3742-01-18 19:55 G 3087815.15 3087815.33 3087815.52 0.0144 0.0010

Uranus 3742-04-17 03:50 G 3087903.48 3087903.66 3087903.85 0.0144 0.0020

Uranus 3742-07-14 11:45 G 3087991.82 3087991.99 3087992.17 0.0144 0.0050

Uranus 3742-10-10 19:40 G 3088080.17 3088080.32 3088080.48 0.0143 0.0080

Earth 3742-11-30 00:28 G 3088130.41 3088130.52 3088130.62 0.2684 0.0763

Moon 3742-11-30 00:57 G 3088130.43 3088130.54 3088130.65 0.2681 0.0627 *

Uranus 3743-01-07 03:35 G 3088168.54 3088168.65 3088168.78 0.0143 0.0109

Uranus 3743-04-05 11:31 G 3088256.95 3088256.98 3088257.04 0.0143 0.0139

Jupiter 3743-08-19 00:57 G 3088392.43 3088392.54 3088392.65 0.0539 0.0301

Jupiter 3743-11-16 10:04 G 3088481.82 3088481.92 3088482.02 0.0538 0.0326

Mars 3749-05-31 16:19 G 3090505.13 3090505.18 3090505.23 0.1858 0.1677

Jupiter 3749-10-01 11:16 G 3090627.80 3090627.97 3090628.14 0.0488 0.0116

Saturn 3749-12-24 07:11 G 3090711.67 3090711.80 3090711.93 0.0278 0.0177

Saturn 3750-03-23 02:38 G 3090800.44 3090800.61 3090800.79 0.0277 0.0035

Saturn 3750-06-19 22:33 G 3090889.28 3090889.44 3090889.60 0.0277 0.0111

Mars 3750-06-25 23:31 G 3090895.32 3090895.48 3090895.65 0.1688 0.0215

Saturn 3750-09-16 18:43 G 3090978.22 3090978.28 3090978.35 0.0276 0.0256

Mars 3751-05-07 05:31 G 3091210.64 3091210.73 3091210.82 0.1830 0.1073

Moon 3752-05-29 07:40 G 3091598.67 3091598.82 3091598.98 0.2653 0.0372

Earth 3752-05-29 08:38 G 3091598.71 3091598.86 3091599.01 0.2647 0.0420 *

Jupiter 3755-06-07 03:07 G 3092702.57 3092702.63 3092702.69 0.0540 0.0478

Jupiter 3755-09-04 12:43 G 3092791.91 3092792.03 3092792.16 0.0539 0.0158

Earth 3755-12-02 18:14 G 3092881.15 3092881.26 3092881.37 0.2686 0.0642

Moon 3755-12-02 18:14 G 3092881.16 3092881.26 3092881.37 0.2678 0.0602 *

Mars 3759-11-16 00:00 G 3094325.38 3094325.50 3094325.63 0.1681 0.1043

Mars 3760-09-26 14:38 G 3094640.99 3094641.11 3094641.22 0.1837 0.0440

Jupiter 3761-07-20 10:19 G 3094937.79 3094937.93 3094938.08 0.0488 0.0275

Venus 3761-09-08 17:02 G 3094988.14 3094988.21 3094988.29 0.3678 0.2584

Jupiter 3761-10-18 12:43 G 3095027.93 3095028.03 3095028.15 0.0489 0.0375

Venus 3763-03-25 10:48 G 3095550.82 3095550.95 3095551.09 0.3692 0.1287

Saturn 3765-07-17 02:52 G 3096395.50 3096395.62 3096395.73 0.0281 0.0163

Saturn 3765-10-13 15:21 G 3096484.01 3096484.14 3096484.28 0.0282 0.0044

Saturn 3766-01-10 03:50 G 3096572.53 3096572.66 3096572.80 0.0283 0.0076

Saturn 3766-04-08 16:19 G 3096661.08 3096661.18 3096661.28 0.0283 0.0193

Venus 3767-03-25 10:04 G 3097011.82 3097011.92 3097012.02 0.3679 0.1185

Jupiter 3767-06-23 16:19 G 3097102.04 3097102.18 3097102.31 0.0539 0.0016

Neptune 3767-10-22 13:11 G 3097223.02 3097223.05 3097223.11 0.0088 0.0085

Neptune 3768-01-18 16:19 G 3097311.10 3097311.18 3097311.28 0.0088 0.0076

Neptune 3768-04-15 19:26 G 3097399.20 3097399.31 3097399.43 0.0088 0.0067

Neptune 3768-07-12 22:04 G 3097487.30 3097487.42 3097487.57 0.0088 0.0059

Venus 3768-10-08 14:52 G 3097574.99 3097575.12 3097575.25 0.3691 0.1731

Neptune 3768-10-09 00:57 G 3097575.41 3097575.54 3097575.71 0.0088 0.0050

Moon 3768-12-04 11:31 G 3097631.91 3097631.98 3097632.05 0.2682 0.2020

Earth 3768-12-04 12:00 G 3097631.93 3097632.00 3097632.07 0.2687 0.2029 *

Neptune 3769-01-05 04:04 G 3097663.52 3097663.67 3097663.84 0.0088 0.0041

Pluto 3769-02-09 01:11 G 3097698.47 3097698.55 3097698.66 0.0072 0.0062

Neptune 3769-04-03 07:11 G 3097751.64 3097751.80 3097751.98 0.0088 0.0032

Pluto 3769-05-08 03:07 G 3097786.52 3097786.63 3097786.78 0.0072 0.0050

Neptune 3769-06-30 10:19 G 3097839.76 3097839.93 3097840.11 0.0088 0.0023

Pluto 3769-08-04 05:31 G 3097874.58 3097874.73 3097874.89 0.0072 0.0037

Neptune 3769-09-26 13:11 G 3097927.88 3097928.05 3097928.24 0.0088 0.0014

Pluto 3769-10-31 07:11 G 3097962.64 3097962.80 3097962.98 0.0072 0.0025

Neptune 3769-12-23 16:19 G 3098016.00 3098016.18 3098016.37 0.0088 0.0005

Pluto 3770-01-27 09:21 G 3098050.72 3098050.89 3098051.07 0.0072 0.0013

Mars 3770-02-16 23:31 G 3098071.36 3098071.48 3098071.59 0.1844 0.0222

Neptune 3770-03-21 19:26 G 3098104.13 3098104.31 3098104.49 0.0088 0.0004

Pluto 3770-04-25 11:16 G 3098138.79 3098138.97 3098139.16 0.0072 0.0002

Neptune 3770-06-17 22:33 G 3098192.25 3098192.44 3098192.62 0.0088 0.0013

Pluto 3770-07-22 13:11 G 3098226.87 3098227.05 3098227.23 0.0072 0.0011

Neptune 3770-09-14 01:11 G 3098280.39 3098280.55 3098280.74 0.0088 0.0023

Pluto 3770-10-18 14:52 G 3098314.96 3098315.12 3098315.30 0.0072 0.0023

Neptune 3770-12-11 04:19 G 3098368.52 3098368.68 3098368.86 0.0088 0.0032

Pluto 3771-01-14 16:33 G 3098403.05 3098403.19 3098403.37 0.0072 0.0035

Neptune 3771-03-09 07:26 G 3098456.66 3098456.81 3098456.98 0.0088 0.0041

Mars 3771-03-15 00:14 G 3098462.46 3098462.51 3098462.55 0.1701 0.1622

Pluto 3771-04-12 18:28 G 3098491.15 3098491.27 3098491.42 0.0071 0.0046

Neptune 3771-06-05 10:33 G 3098544.80 3098544.94 3098545.10 0.0088 0.0050

Pluto 3771-07-09 20:38 G 3098579.26 3098579.36 3098579.47 0.0071 0.0057

Neptune 3771-09-01 13:40 G 3098632.94 3098633.07 3098633.22 0.0088 0.0059

Pluto 3771-10-05 22:04 G 3098667.39 3098667.42 3098667.49 0.0071 0.0068

Neptune 3771-11-28 17:02 G 3098721.10 3098721.21 3098721.33 0.0088 0.0068

Neptune 3772-02-24 19:40 G 3098809.26 3098809.32 3098809.43 0.0088 0.0078

Neptune 3772-05-22 23:02 G 3098897.45 3098897.46 3098897.50 0.0088 0.0087

Venus 3772-10-08 02:52 G 3099035.52 3099035.62 3099035.73 0.3679 0.0197

Jupiter 3773-05-08 08:52 G 3099247.80 3099247.87 3099247.95 0.0488 0.0440

Jupiter 3773-08-06 10:48 G 3099337.79 3099337.95 3099338.12 0.0489 0.0201

Earth 3775-11-28 11:16 G 3100181.90 3100181.97 3100182.05 0.2683 0.1888

Moon 3775-11-28 12:14 G 3100181.92 3100182.01 3100182.09 0.2683 0.1779 *

Venus 3778-04-23 19:40 G 3101059.22 3101059.32 3101059.41 0.3680 0.1515

Jupiter 3779-04-11 19:55 G 3101412.21 3101412.33 3101412.46 0.0539 0.0146

Saturn 3779-05-13 07:26 G 3101443.70 3101443.81 3101443.92 0.0278 0.0214

Jupiter 3779-07-10 04:48 G 3101501.65 3101501.70 3101501.76 0.0538 0.0477

Mars 3779-07-10 07:55 G 3101501.73 3101501.83 3101501.93 0.1851 0.0910 *

Saturn 3779-08-10 02:52 G 3101532.45 3101532.62 3101532.78 0.0278 0.0072

Saturn 3779-11-06 22:33 G 3101621.27 3101621.44 3101621.61 0.0277 0.0072

Saturn 3780-02-03 18:28 G 3101710.16 3101710.27 3101710.38 0.0276 0.0216

Mars 3780-08-04 00:00 G 3101892.36 3101892.50 3101892.65 0.1694 0.0742

Mars 3781-06-14 20:24 G 3102207.32 3102207.35 3102207.38 0.1823 0.1759

Venus 3783-11-07 12:00 G 3103082.94 3103083.00 3103083.07 0.3681 0.2810

Uranus 3784-02-04 11:02 G 3103171.92 3103171.96 3103172.01 0.0134 0.0127

Uranus 3784-05-02 14:24 G 3103260.02 3103260.10 3103260.18 0.0134 0.0110

Uranus 3784-07-29 17:31 G 3103348.14 3103348.23 3103348.33 0.0134 0.0092

Uranus 3784-10-25 20:52 G 3103436.26 3103436.37 3103436.48 0.0134 0.0075

Uranus 3785-01-22 00:00 G 3103524.38 3103524.50 3103524.63 0.0135 0.0057

Uranus 3785-04-20 03:21 G 3103612.51 3103612.64 3103612.77 0.0135 0.0040

Jupiter 3785-05-25 09:50 G 3103647.73 3103647.91 3103648.09 0.0489 0.0038

Moon 3785-05-27 07:11 G 3103649.71 3103649.80 3103649.90 0.2652 0.2047

Earth 3785-05-27 08:52 G 3103649.76 3103649.87 3103649.98 0.2649 0.1815 *

Uranus 3785-07-17 06:28 G 3103700.64 3103700.77 3103700.91 0.0135 0.0023

Uranus 3785-10-13 09:35 G 3103788.77 3103788.90 3103789.04 0.0135 0.0007

Uranus 3786-01-09 12:57 G 3103876.90 3103877.04 3103877.17 0.0135 0.0013

Uranus 3786-04-07 16:04 G 3103965.04 3103965.17 3103965.30 0.0135 0.0030

Uranus 3786-07-04 19:11 G 3104053.18 3104053.30 3104053.43 0.0135 0.0047

Uranus 3786-09-30 22:19 G 3104141.31 3104141.43 3104141.55 0.0135 0.0064

Uranus 3786-12-28 01:26 G 3104229.46 3104229.56 3104229.67 0.0135 0.0081

Uranus 3787-03-26 04:33 G 3104317.60 3104317.69 3104317.78 0.0135 0.0098

Uranus 3787-06-22 07:40 G 3104405.76 3104405.82 3104405.89 0.0135 0.0116

Uranus 3787-09-18 10:48 G 3104493.93 3104493.95 3104493.98 0.0135 0.0133

Mars 3788-11-29 16:19 G 3104932.13 3104932.18 3104932.24 0.1858 0.1611

Earth 3788-11-30 05:16 G 3104932.61 3104932.72 3104932.83 0.2684 0.0469

Moon 3788-11-30 05:45 G 3104932.63 3104932.74 3104932.85 0.2679 0.0428 *

Mars 3789-12-25 00:14 G 3105322.35 3105322.51 3105322.68 0.1688 0.0121

Mars	3790-11-05 05:31 G	3105637.64	3105637.73	3105637.82	0.1830	0.1138
Jupiter	3791-01-28 23:16 G	3105722.36	3105722.47	3105722.58	0.0539	0.0303
Jupiter	3791-04-28 08:24 G	3105811.75	3105811.85	3105811.96	0.0538	0.0326
Saturn	3794-12-04 04:04 G	3107127.58	3107127.67	3107127.77	0.0282	0.0202
Saturn	3795-03-02 16:48 G	3107216.07	3107216.20	3107216.34	0.0282	0.0083
Saturn	3795-05-30 05:31 G	3107304.59	3107304.73	3107304.86	0.0283	0.0037
Saturn	3795-08-26 17:45 G	3107393.13	3107393.24	3107393.36	0.0284	0.0155
Saturn	3795-11-23 06:00 G	3107481.72	3107481.75	3107481.79	0.0284	0.0272
Jupiter	3797-03-13 08:38 G	3107957.69	3107957.86	3107958.04	0.0489	0.0123
Moon	3798-05-30 14:38 G	3108400.96	3108401.11	3108401.25	0.2654	0.0889
Earth	3798-05-30 15:07 G	3108400.98	3108401.13	3108401.28	0.2647	0.0965 *
Mars	3799-05-17 00:57 G	3108752.40	3108752.54	3108752.67	0.1682	0.0946
Mars	3800-03-28 14:38 G	3109068.00	3109068.11	3109068.22	0.1837	0.0502
Moon	3801-12-03 23:02 G	3109683.36	3109683.46	3109683.57	0.2679	0.0996
Earth	3801-12-03 23:02 G	3109683.36	3109683.46	3109683.56	0.2686	0.0935 *
Jupiter	3802-11-18 02:09 G	3110032.53	3110032.59	3110032.66	0.0539	0.0468
Jupiter	3803-02-15 11:45 G	3110121.87	3110121.99	3110122.11	0.0538	0.0168
Saturn	3808-09-30 07:40 G	3112175.75	3112175.82	3112175.90	0.0278	0.0251
Saturn	3808-12-28 03:07 G	3112264.47	3112264.63	3112264.79	0.0278	0.0110
Jupiter	3808-12-31 08:09 G	3112267.70	3112267.84	3112267.99	0.0488	0.0276
Saturn	3809-03-26 22:48 G	3112353.28	3112353.45	3112353.63	0.0277	0.0034
Jupiter	3809-03-31 10:48 G	3112357.83	3112357.95	3112358.06	0.0489	0.0373
Saturn	3809-06-23 18:43 G	3112442.15	3112442.28	3112442.42	0.0276	0.0178
Mars	3809-08-18 23:16 G	3112498.36	3112498.47	3112498.59	0.1844	0.0172
Venus	3812-09-30 21:50 G	3113637.39	3113637.41	3113637.44	0.3677	0.3540
Venus	3814-04-16 08:09 G	3114199.77	3114199.84	3114199.90	0.3692	0.3250
Jupiter	3814-12-04 14:09 G	3114431.96	3114432.09	3114432.23	0.0539	0.0016
Moon	3814-12-06 16:19 G	3114434.12	3114434.18	3114434.24	0.2683	0.2177
Earth	3814-12-06 16:48 G	3114434.15	3114434.20	3114434.25	0.2687	0.2320 *
Venus	3818-04-16 15:07 G	3115661.04	3115661.13	3115661.21	0.3678	0.2124

Mars	3819-01-09 08:09 G	3115928.74	3115928.84	3115928.94	0.1851	0.0835
Venus	3819-10-31 11:31 G	3116223.84	3116223.98	3116224.13	0.3691	0.0381
Mars	3820-02-04 00:43 G	3116319.39	3116319.53	3116319.67	0.1694	0.0829
Jupiter	3820-10-19 07:26 G	3116577.73	3116577.81	3116577.89	0.0488	0.0433
Mars	3820-12-14 20:24 G	3116634.34	3116634.35	3116634.35	0.1823	0.1820
Jupiter	3821-01-17 09:21 G	3116667.73	3116667.89	3116668.05	0.0489	0.0208
Earth	3821-11-29 16:19 G	3116984.09	3116984.18	3116984.26	0.2683	0.1593
Moon	3821-11-29 17:02 G	3116984.11	3116984.21	3116984.30	0.2683	0.1474 *
Venus	3823-10-31 07:55 G	3117684.73	3117684.83	3117684.94	0.3679	0.0736
Saturn	3824-04-23 07:55 G	3117859.74	3117859.83	3117859.91	0.0281	0.0221
Saturn	3824-07-20 20:38 G	3117948.23	3117948.36	3117948.49	0.0282	0.0101
Saturn	3824-10-17 09:21 G	3118036.75	3118036.89	3118037.02	0.0283	0.0020
Saturn	3825-01-13 21:35 G	3118125.28	3118125.40	3118125.52	0.0283	0.0136
Uranus	3825-02-20 19:55 G	3118163.24	3118163.33	3118163.45	0.0144	0.0119
Saturn	3825-04-12 09:50 G	3118213.86	3118213.91	3118213.98	0.0284	0.0253
Venus	3825-05-16 15:50 G	3118248.07	3118248.16	3118248.26	0.3690	0.2710
Uranus	3825-05-20 03:50 G	3118251.52	3118251.66	3118251.81	0.0144	0.0090
Uranus	3825-08-16 11:45 G	3118339.82	3118339.99	3118340.16	0.0144	0.0061
Uranus	3825-11-12 19:26 G	3118428.14	3118428.31	3118428.50	0.0144	0.0032
Uranus	3826-02-09 03:35 G	3118516.46	3118516.65	3118516.83	0.0144	0.0004
Uranus	3826-05-08 11:16 G	3118604.79	3118604.97	3118605.16	0.0144	0.0028
Uranus	3826-08-04 19:11 G	3118693.13	3118693.30	3118693.48	0.0144	0.0057
Jupiter	3826-09-22 17:31 G	3118742.11	3118742.23	3118742.36	0.0539	0.0162
Uranus	3826-11-01 03:21 G	3118781.49	3118781.64	3118781.79	0.0143	0.0087
Jupiter	3826-12-21 02:24 G	3118831.54	3118831.60	3118831.67	0.0538	0.0461
Uranus	3827-01-28 11:02 G	3118869.86	3118869.96	3118870.08	0.0143	0.0117
Mars	3828-05-31 16:33 G	3119359.12	3119359.19	3119359.25	0.1857	0.1539
Venus	3829-05-16 00:43 G	3119708.42	3119708.53	3119708.64	0.3680	0.0621
Mars	3829-06-26 00:57 G	3119749.37	3119749.54	3119749.70	0.1688	0.0051
Mars	3830-05-07 05:45 G	3120064.65	3120064.74	3120064.82	0.1830	0.1210

Moon 3831-05-29 13:55 G 3120451.95 3120452.08 3120452.21 0.2652 0.1396

Earth 3831-05-29 15:21 G 3120452.00 3120452.14 3120452.28 0.2649 0.1278 *

Jupiter 3832-11-05 07:26 G 3120977.63 3120977.81 3120977.99 0.0488 0.0034

Venus 3834-11-29 17:16 G 3121732.13 3121732.22 3121732.31 0.3681 0.1936

Earth 3834-12-02 10:04 G 3121734.81 3121734.92 3121735.03 0.2684 0.0178

Moon 3834-12-02 10:33 G 3121734.83 3121734.94 3121735.05 0.2678 0.0134 *

Saturn 3838-05-17 03:50 G 3122996.52 3122996.66 3122996.82 0.0278 0.0142

Jupiter 3838-07-11 21:07 G 3123052.27 3123052.38 3123052.49 0.0540 0.0314

Saturn 3838-08-13 23:31 G 3123085.31 3123085.48 3123085.66 0.0277 0.0002

Jupiter 3838-10-09 06:28 G 3123141.67 3123141.77 3123141.87 0.0538 0.0316

Saturn 3838-11-10 19:11 G 3123174.16 3123174.30 3123174.46 0.0277 0.0145

Mars 3838-11-16 01:26 G 3123179.42 3123179.56 3123179.70 0.1682 0.0857

Mars 3839-09-27 14:38 G 3123495.00 3123495.11 3123495.22 0.1837 0.0565

Venus 3840-06-14 09:50 G 3123755.86 3123755.91 3123755.96 0.3681 0.3222

Moon 3844-05-31 21:21 G 3125203.26 3125203.39 3125203.52 0.2654 0.1464

Earth 3844-05-31 21:35 G 3125203.28 3125203.40 3125203.53 0.2647 0.1524 *

Jupiter 3844-08-24 06:28 G 3125287.60 3125287.77 3125287.94 0.0488 0.0127

Moon 3847-12-05 03:50 G 3126485.56 3126485.66 3126485.76 0.2680 0.1172

Earth 3847-12-05 03:50 G 3126485.57 3126485.66 3126485.76 0.2686 0.1225 *

Mars 3848-04-07 02:24 G 3126609.58 3126609.60 3126609.62 0.1676 0.1658

Mars 3849-02-16 23:31 G 3126925.36 3126925.48 3126925.60 0.1844 0.0090

Neptune 3850-01-31 04:19 G 3127273.64 3127273.68 3127273.75 0.0089 0.0082

Neptune 3850-04-29 06:00 G 3127361.68 3127361.75 3127361.84 0.0089 0.0075

Jupiter 3850-04-30 00:14 G 3127362.45 3127362.51 3127362.58 0.0539 0.0473

Neptune 3850-07-26 07:40 G 3127449.74 3127449.82 3127449.92 0.0089 0.0067

Jupiter 3850-07-28 10:04 G 3127451.79 3127451.92 3127452.04 0.0538 0.0164

Neptune 3850-10-22 09:21 G 3127537.79 3127537.89 3127538.00 0.0089 0.0060

Neptune 3851-01-18 10:48 G 3127625.85 3127625.95 3127626.07 0.0089 0.0053

Neptune 3851-04-16 12:28 G 3127713.90 3127714.02 3127714.15 0.0089 0.0045

Neptune 3851-07-13 14:09 G 3127801.96 3127802.09 3127802.22 0.0089 0.0038

Neptune 3851-10-09 15:35 G 3127890.02 3127890.15 3127890.29 0.0089 0.0031

Neptune 3852-01-05 17:16 G 3127978.09 3127978.22 3127978.36 0.0089 0.0023

Neptune 3852-04-02 18:43 G 3128066.15 3128066.28 3128066.42 0.0089 0.0016

Neptune 3852-06-29 20:24 G 3128154.21 3128154.35 3128154.49 0.0089 0.0009

Neptune 3852-09-25 21:50 G 3128242.28 3128242.41 3128242.55 0.0089 0.0003

Neptune 3852-12-22 23:31 G 3128330.34 3128330.48 3128330.62 0.0089 0.0006

Neptune 3853-03-21 00:57 G 3128418.41 3128418.54 3128418.68 0.0089 0.0013

Neptune 3853-06-17 02:24 G 3128506.47 3128506.60 3128506.74 0.0089 0.0021

Saturn 3853-09-10 09:21 G 3128591.84 3128591.89 3128591.94 0.0281 0.0260

Neptune 3853-09-13 04:04 G 3128594.54 3128594.67 3128594.80 0.0089 0.0028

Saturn 3853-12-07 22:04 G 3128680.30 3128680.42 3128680.54 0.0282 0.0140

Neptune 3853-12-10 05:31 G 3128682.60 3128682.73 3128682.86 0.0089 0.0035

Saturn 3854-03-06 10:48 G 3128768.81 3128768.95 3128769.09 0.0283 0.0021

Neptune 3854-03-08 06:57 G 3128770.67 3128770.79 3128770.92 0.0089 0.0042

Saturn 3854-06-02 23:16 G 3128857.34 3128857.47 3128857.60 0.0283 0.0098

Neptune 3854-06-04 08:24 G 3128858.74 3128858.85 3128858.97 0.0089 0.0049

Saturn 3854-08-30 11:31 G 3128945.90 3128945.98 3128946.07 0.0284 0.0216

Neptune 3854-08-31 09:50 G 3128946.81 3128946.91 3128947.02 0.0089 0.0056

Neptune 3854-11-27 11:16 G 3129034.88 3129034.97 3129035.08 0.0089 0.0063

Moon 3854-11-28 03:50 G 3129035.63 3129035.66 3129035.69 0.2684 0.2559

Neptune 3855-02-23 12:43 G 3129122.96 3129123.03 3129123.13 0.0089 0.0071

Neptune 3855-05-22 14:09 G 3129211.04 3129211.09 3129211.17 0.0089 0.0078

Neptune 3855-08-18 15:35 G 3129299.12 3129299.15 3129299.21 0.0089 0.0085

Jupiter 3856-06-12 05:31 G 3129597.59 3129597.73 3129597.87 0.0488 0.0285

Jupiter 3856-09-10 07:55 G 3129687.72 3129687.83 3129687.95 0.0489 0.0364

Mars 3858-07-10 08:09 G 3130355.73 3130355.84 3130355.94 0.1851 0.0776

Mars 3859-08-05 01:26 G 3130746.43 3130746.56 3130746.70 0.1694 0.0932

Moon 3860-12-06 21:07 G 3131236.35 3131236.38 3131236.40 0.2683 0.2576

Earth 3860-12-06 21:35 G 3131236.38 3131236.40 3131236.42 0.2688 0.2605 *

Jupiter 3862-05-16 13:11 G 3131761.92 3131762.05 3131762.18 0.0539 0.0005

Saturn 3867-10-04 04:19 G 3133728.55 3133728.68 3133728.81 0.0278 0.0180

Mars 3867-11-30 16:33 G 3133786.12 3133786.19 3133786.26 0.1858 0.1474

Earth 3867-11-30 21:07 G 3133786.28 3133786.38 3133786.47 0.2683 0.1294

Moon 3867-11-30 21:50 G 3133786.31 3133786.41 3133786.50 0.2681 0.1232 *

Saturn 3867-12-31 23:45 G 3133817.32 3133817.49 3133817.66 0.0277 0.0038

Uranus 3868-02-25 18:14 G 3133873.22 3133873.26 3133873.33 0.0134 0.0122

Saturn 3868-03-29 19:26 G 3133906.15 3133906.31 3133906.48 0.0277 0.0105

Jupiter 3868-03-31 05:02 G 3133907.64 3133907.71 3133907.79 0.0488 0.0437

Uranus 3868-05-23 21:35 G 3133961.32 3133961.40 3133961.49 0.0134 0.0105

Saturn 3868-06-26 15:21 G 3133995.08 3133995.14 3133995.22 0.0276 0.0251

Jupiter 3868-06-29 06:57 G 3133997.63 3133997.79 3133997.95 0.0489 0.0204

Uranus 3868-08-20 00:43 G 3134049.44 3134049.53 3134049.65 0.0134 0.0088

Uranus 3868-11-16 04:19 G 3134137.56 3134137.68 3134137.79 0.0135 0.0070

Mars 3868-12-25 01:40 G 3134176.40 3134176.57 3134176.73 0.1688 0.0067

Uranus 3869-02-12 07:26 G 3134225.69 3134225.81 3134225.94 0.0135 0.0052

Venus 3869-05-07 19:55 G 3134310.27 3134310.33 3134310.38 0.3678 0.3069

Uranus 3869-05-11 10:48 G 3134313.82 3134313.95 3134314.08 0.0135 0.0035

Uranus 3869-08-07 13:55 G 3134401.95 3134402.08 3134402.21 0.0135 0.0017

Uranus 3869-11-03 17:02 G 3134490.08 3134490.21 3134490.35 0.0135 0.0003

Mars 3869-11-05 05:31 G 3134491.65 3134491.73 3134491.81 0.1830 0.1265

Uranus 3870-01-30 20:09 G 3134578.21 3134578.34 3134578.48 0.0135 0.0018

Uranus 3870-04-28 23:16 G 3134666.35 3134666.47 3134666.61 0.0135 0.0035

Uranus 3870-07-26 02:38 G 3134754.49 3134754.61 3134754.73 0.0135 0.0052

Uranus 3870-10-22 05:45 G 3134842.63 3134842.74 3134842.85 0.0135 0.0069

Venus 3870-11-21 08:38 G 3134872.76 3134872.86 3134872.97 0.3692 0.2368

Uranus 3871-01-18 08:52 G 3134930.77 3134930.87 3134930.97 0.0135 0.0086

Uranus 3871-04-16 12:00 G 3135018.92 3135019.00 3135019.09 0.0135 0.0104

Uranus 3871-07-13 15:07 G 3135107.08 3135107.13 3135107.19 0.0135 0.0121

Jupiter 3874-03-04 15:35 G 3136072.02 3136072.15 3136072.27 0.0539 0.0170

Jupiter 3874-06-02 00:28 G 3136161.46 3136161.52 3136161.59 0.0538 0.0453

Venus	3874-11-21 12:57 G	3136333.94	3136334.04	3136334.13	0.3678	0.1667
Venus	3876-06-06 12:28 G	3136896.88	3136897.02	3136897.16	0.3691	0.0568
Moon	3877-05-29 20:38 G	3137254.22	3137254.36	3137254.51	0.2653	0.0964
Earth	3877-05-29 21:50 G	3137254.26	3137254.41	3137254.56	0.2649	0.0737 *
Mars	3878-05-17 01:55 G	3137606.44	3137606.58	3137606.73	0.1682	0.0775
Mars	3879-03-28 14:38 G	3137922.00	3137922.11	3137922.22	0.1837	0.0635
Jupiter	3880-04-17 05:45 G	3138307.57	3138307.74	3138307.92	0.0489	0.0041
Venus	3880-06-06 05:45 G	3138357.63	3138357.74	3138357.85	0.3679	0.0288
Earth	3880-12-02 14:52 G	3138537.01	3138537.12	3138537.23	0.2685	0.0136
Moon	3880-12-02 15:21 G	3138537.03	3138537.14	3138537.25	0.2678	0.0181 *
Saturn	3883-01-28 12:57 G	3139324.03	3139324.04	3139324.05	0.0281	0.0279
Saturn	3883-04-27 01:40 G	3139412.46	3139412.57	3139412.69	0.0282	0.0160
Saturn	3883-07-24 14:24 G	3139500.97	3139501.10	3139501.24	0.0282	0.0041
Saturn	3883-10-21 03:07 G	3139589.50	3139589.63	3139589.76	0.0283	0.0079
Saturn	3884-01-17 15:21 G	3139678.05	3139678.14	3139678.24	0.0284	0.0197
Venus	3885-12-20 22:33 G	3140381.34	3140381.44	3140381.54	0.3680	0.1057
Jupiter	3885-12-21 18:43 G	3140382.18	3140382.28	3140382.38	0.0539	0.0331
Jupiter	3886-03-21 04:04 G	3140471.56	3140471.67	3140471.78	0.0538	0.0300
Mars	3887-10-07 03:07 G	3141036.57	3141036.63	3141036.68	0.1676	0.1573
Mars	3888-08-17 23:31 G	3141352.36	3141352.48	3141352.60	0.1844	0.0030
Moon	3890-06-02 03:50 G	3142005.56	3142005.66	3142005.76	0.2654	0.2064
Earth	3890-06-02 04:19 G	3142005.58	3142005.68	3142005.77	0.2647	0.2072 *
Venus	3891-07-06 15:07 G	3142405.05	3142405.13	3142405.21	0.3681	0.2359
Jupiter	3892-02-04 03:50 G	3142617.50	3142617.66	3142617.83	0.0488	0.0133
Moon	3893-12-05 08:24 G	3143287.76	3143287.85	3143287.94	0.2680	0.1485
Earth	3893-12-05 08:38 G	3143287.77	3143287.86	3143287.95	0.2686	0.1513 *
Venus	3897-01-19 07:26 G	3144428.80	3144428.81	3144428.83	0.3682	0.3635
Saturn	3897-02-20 05:31 G	3144460.63	3144460.73	3144460.85	0.0278	0.0209
Saturn	3897-05-20 01:11 G	3144549.38	3144549.55	3144549.72	0.0278	0.0067
Saturn	3897-08-16 20:52 G	3144638.20	3144638.37	3144638.54	0.0277	0.0076

Jupiter	**3897-10-09 22:04**	**G**	**3144692.37**	**3144692.42**	**3144692.48**	**0.0540**	**0.0486**
Saturn	**3897-11-13 16:48**	**G**	**3144727.09**	**3144727.20**	**3144727.30**	**0.0276**	**0.0220**
Jupiter	**3898-01-07 07:55**	**G**	**3144781.70**	**3144781.83**	**3144781.96**	**0.0539**	**0.0153**
Mars	**3898-01-08 08:09**	**G**	**3144782.73**	**3144782.84**	**3144782.95**	**0.1851**	**0.0705**
Mars	**3899-02-03 02:09**	**G**	**3145173.46**	**3145173.59**	**3145173.72**	**0.1695**	**0.1023**
Earth	**3900-11-29 07:55**	**G**	**3145837.79**	**3145837.83**	**3145837.88**	**0.2681**	**0.2422**
Moon	**3900-11-29 08:38**	**G**	**3145837.82**	**3145837.86**	**3145837.91**	**0.2684**	**0.2391** *****
Jupiter	**3903-11-24 03:07**	**G**	**3146927.49**	**3146927.63**	**3146927.77**	**0.0488**	**0.0290**
Jupiter	**3904-02-22 05:16**	**G**	**3147017.61**	**3147017.72**	**3147017.85**	**0.0489**	**0.0358**
Mars	**3907-06-01 16:33**	**G**	**3148213.12**	**3148213.19**	**3148213.27**	**0.1857**	**0.1403**
Mars	**3908-06-26 02:24**	**G**	**3148603.43**	**3148603.60**	**3148603.76**	**0.1688**	**0.0160**
Uranus	**3908-12-15 19:55**	**G**	**3148776.30**	**3148776.33**	**3148776.38**	**0.0144**	**0.0140**
Uranus	**3909-03-14 03:35**	**G**	**3148864.54**	**3148864.65**	**3148864.77**	**0.0144**	**0.0111**
Mars	**3909-05-07 05:31**	**G**	**3148918.66**	**3148918.73**	**3148918.81**	**0.1830**	**0.1336**
Uranus	**3909-06-10 11:31**	**G**	**3148952.83**	**3148952.98**	**3148953.13**	**0.0144**	**0.0082**
Uranus	**3909-09-06 19:11**	**G**	**3149041.13**	**3149041.30**	**3149041.48**	**0.0144**	**0.0053**
Jupiter	**3909-10-27 11:31**	**G**	**3149091.85**	**3149091.98**	**3149092.11**	**0.0539**	**0.0012**
Uranus	**3909-12-04 03:07**	**G**	**3149129.44**	**3149129.63**	**3149129.81**	**0.0144**	**0.0024**
Uranus	**3910-03-02 10:48**	**G**	**3149217.77**	**3149217.95**	**3149218.14**	**0.0144**	**0.0006**
Uranus	**3910-05-29 18:43**	**G**	**3149306.10**	**3149306.28**	**3149306.47**	**0.0144**	**0.0035**
Uranus	**3910-08-26 02:38**	**G**	**3149394.45**	**3149394.61**	**3149394.78**	**0.0143**	**0.0065**
Uranus	**3910-11-22 10:19**	**G**	**3149482.80**	**3149482.93**	**3149483.09**	**0.0143**	**0.0095**
Uranus	**3911-02-18 18:14**	**G**	**3149571.18**	**3149571.26**	**3149571.37**	**0.0143**	**0.0124**
Saturn	**3912-09-14 03:07**	**G**	**3150144.54**	**3150144.63**	**3150144.73**	**0.0282**	**0.0198**
Saturn	**3912-12-11 16:04**	**G**	**3150233.03**	**3150233.17**	**3150233.30**	**0.0282**	**0.0079**
Saturn	**3913-03-10 04:33**	**G**	**3150321.55**	**3150321.69**	**3150321.83**	**0.0283**	**0.0041**
Saturn	**3913-06-06 17:02**	**G**	**3150410.10**	**3150410.21**	**3150410.32**	**0.0284**	**0.0159**
Saturn	**3913-09-03 05:16**	**G**	**3150498.69**	**3150498.72**	**3150498.75**	**0.0284**	**0.0276**
Earth	**3913-12-02 01:55**	**G**	**3150588.48**	**3150588.58**	**3150588.68**	**0.2683**	**0.0997**
Moon	**3913-12-02 02:38**	**G**	**3150588.50**	**3150588.61**	**3150588.71**	**0.2680**	**0.0861** *****

Jupiter 3915-09-12 02:24 G 3151237.53 3151237.60 3151237.67 0.0488 0.0446

Jupiter 3915-12-11 04:04 G 3151327.51 3151327.67 3151327.84 0.0489 0.0194

Mars 3917-11-16 02:52 G 3152033.47 3152033.62 3152033.77 0.1682 0.0680

Mars 3918-09-27 14:38 G 3152349.00 3152349.11 3152349.22 0.1837 0.0694

Jupiter 3921-08-15 14:38 G 3153401.98 3153402.11 3153402.23 0.0539 0.0162

Jupiter 3921-11-12 23:31 G 3153491.42 3153491.48 3153491.54 0.0538 0.0461

Moon 3923-06-01 03:21 G 3154056.49 3154056.64 3154056.80 0.2654 0.0207

Earth 3923-06-01 04:19 G 3154056.53 3154056.68 3154056.84 0.2649 0.0193 *

Venus 3925-12-13 17:45 G 3154983.16 3154983.24 3154983.31 0.3678 0.2601

Saturn 3926-07-11 05:45 G 3155192.67 3155192.74 3155192.82 0.0278 0.0247

Saturn 3926-10-08 01:11 G 3155281.39 3155281.55 3155281.71 0.0278 0.0107

Earth 3926-12-04 19:40 G 3155339.22 3155339.32 3155339.43 0.2685 0.0424

Moon 3926-12-04 20:09 G 3155339.23 3155339.34 3155339.45 0.2679 0.0438 *

Saturn 3927-01-04 20:52 G 3155370.19 3155370.37 3155370.54 0.0277 0.0036

Saturn 3927-04-03 16:33 G 3155459.06 3155459.19 3155459.33 0.0276 0.0180

Mars 3927-04-08 03:50 G 3155463.58 3155463.66 3155463.73 0.1676 0.1482

Venus 3927-06-29 09:21 G 3155545.76 3155545.89 3155546.02 0.3692 0.1475

Jupiter 3927-09-29 03:21 G 3155637.46 3155637.64 3155637.82 0.0489 0.0036

Mars 3928-02-17 23:31 G 3155779.36 3155779.48 3155779.60 0.1844 0.0040

Venus 3931-06-29 10:48 G 3157006.85 3157006.95 3157007.05 0.3679 0.1211

Pluto 3931-10-13 02:38 G 3157112.60 3157112.61 3157112.66 0.0071 0.0069

Pluto 3932-01-09 03:35 G 3157200.59 3157200.65 3157200.74 0.0071 0.0060

Pluto 3932-04-06 04:33 G 3157288.60 3157288.69 3157288.79 0.0071 0.0051

Pluto 3932-07-03 05:31 G 3157376.62 3157376.73 3157376.84 0.0071 0.0043

Neptune 3932-07-20 12:14 G 3157393.95 3157394.01 3157394.08 0.0088 0.0081

Pluto 3932-09-29 06:14 G 3157464.64 3157464.76 3157464.89 0.0071 0.0034

Neptune 3932-10-16 14:52 G 3157482.04 3157482.12 3157482.24 0.0088 0.0073

Pluto 3932-12-26 07:11 G 3157552.67 3157552.80 3157552.93 0.0072 0.0025

Venus 3933-01-12 13:11 G 3157569.92 3157570.05 3157570.18 0.3691 0.1512

Neptune 3933-01-12 17:45 G 3157570.14 3157570.24 3157570.38 0.0088 0.0064 *

Pluto 3933-03-24 07:55 G 3157640.70 3157640.83 3157640.97 0.0072 0.0016

Neptune 3933-04-10 20:52 G 3157658.24 3157658.37 3157658.52 0.0088 0.0055

Jupiter 3933-06-03 16:48 G 3157712.10 3157712.20 3157712.31 0.0539 0.0337

Pluto 3933-06-20 08:52 G 3157728.73 3157728.87 3157729.01 0.0072 0.0007

Neptune 3933-07-08 00:00 G 3157746.35 3157746.50 3157746.66 0.0088 0.0046

Jupiter 3933-09-01 02:09 G 3157801.48 3157801.59 3157801.70 0.0538 0.0294

Pluto 3933-09-16 09:50 G 3157816.77 3157816.91 3157817.05 0.0072 0.0003

Neptune 3933-10-04 03:07 G 3157834.46 3157834.63 3157834.79 0.0088 0.0037

Pluto 3933-12-13 10:33 G 3157904.81 3157904.94 3157905.08 0.0072 0.0012

Neptune 3933-12-31 06:00 G 3157922.58 3157922.75 3157922.92 0.0088 0.0028

Pluto 3934-03-11 11:31 G 3157992.85 3157992.98 3157993.12 0.0072 0.0021

Neptune 3934-03-29 08:52 G 3158010.70 3158010.87 3158011.05 0.0088 0.0020

Pluto 3934-06-07 12:14 G 3158080.89 3158081.01 3158081.15 0.0072 0.0031

Neptune 3934-06-25 12:00 G 3158098.82 3158099.00 3158099.18 0.0088 0.0010

Pluto 3934-09-03 13:26 G 3158168.94 3158169.06 3158169.17 0.0072 0.0040

Neptune 3934-09-21 15:07 G 3158186.94 3158187.13 3158187.31 0.0088 0.0002

Pluto 3934-11-30 13:55 G 3158256.99 3158257.08 3158257.20 0.0073 0.0050

Neptune 3934-12-18 18:00 G 3158275.07 3158275.25 3158275.43 0.0088 0.0008

Pluto 3935-02-26 15:07 G 3158345.05 3158345.13 3158345.21 0.0073 0.0059

Neptune 3935-03-16 20:52 G 3158363.20 3158363.37 3158363.56 0.0088 0.0017

Pluto 3935-05-25 15:50 G 3158433.13 3158433.16 3158433.22 0.0073 0.0069

Neptune 3935-06-13 00:00 G 3158451.33 3158451.50 3158451.68 0.0088 0.0026

Neptune 3935-09-09 03:07 G 3158539.47 3158539.63 3158539.80 0.0088 0.0035

Neptune 3935-12-06 06:00 G 3158627.60 3158627.75 3158627.92 0.0088 0.0044

Neptune 3936-03-03 09:07 G 3158715.75 3158715.88 3158716.04 0.0088 0.0053

Neptune 3936-05-30 12:28 G 3158803.89 3158804.02 3158804.15 0.0088 0.0062

Moon 3936-06-03 10:48 G 3158807.91 3158807.95 3158807.98 0.2653 0.2575

Earth 3936-06-03 10:48 G 3158807.94 3158807.95 3158807.96 0.2647 0.2633 *

Neptune 3936-08-26 15:07 G 3158892.05 3158892.13 3158892.26 0.0088 0.0072

Neptune 3936-11-22 18:14 G 3158980.21 3158980.26 3158980.35 0.0088 0.0081

Venus	3937-01-12 03:35 G	3159030.54	3159030.65	3159030.76	0.3680	0.0156
Mars	3937-07-10 08:24 G	3159209.74	3159209.85	3159209.96	0.1851	0.0636
Mars	3938-08-05 02:52 G	3159600.50	3159600.62	3159600.74	0.1695	0.1116
Jupiter	3939-07-18 02:24 G	3159947.43	3159947.60	3159947.77	0.0488	0.0126
Moon	3939-12-07 13:11 G	3160089.97	3160090.05	3160090.13	0.2680	0.1747
Earth	3939-12-07 13:26 G	3160089.98	3160090.06	3160090.14	0.2686	0.1805 *
Saturn	3942-02-01 06:43 G	3160876.70	3160876.78	3160876.87	0.0282	0.0218
Saturn	3942-04-30 19:40 G	3160965.19	3160965.32	3160965.45	0.0282	0.0099
Saturn	3942-07-28 08:09 G	3161053.71	3161053.84	3161053.98	0.0283	0.0022
Venus	3942-07-28 20:09 G	3161054.25	3161054.34	3161054.44	0.3680	0.1484
Saturn	3942-10-24 20:38 G	3161142.24	3161142.36	3161142.48	0.0284	0.0139
Saturn	3943-01-21 09:07 G	3161230.82	3161230.88	3161230.94	0.0284	0.0256
Jupiter	3945-03-22 19:40 G	3162022.28	3162022.32	3162022.37	0.0539	0.0501
Jupiter	3945-06-20 05:31 G	3162111.61	3162111.73	3162111.86	0.0539	0.0138
Earth	3946-11-30 12:57 G	3162639.97	3162640.04	3162640.10	0.2682	0.2128
Moon	3946-11-30 13:26 G	3162639.99	3162640.06	3162640.14	0.2684	0.1967 *
Mars	3946-11-30 16:33 G	3162640.11	3162640.19	3162640.27	0.1857	0.1339 *
Mars	3947-12-26 02:52 G	3163030.45	3163030.62	3163030.78	0.1688	0.0243
Venus	3948-02-11 12:43 G	3163077.97	3163078.03	3163078.10	0.3681	0.2780
Mars	3948-11-05 05:45 G	3163345.66	3163345.74	3163345.81	0.1829	0.1399
Jupiter	3951-05-06 00:28 G	3164257.39	3164257.52	3164257.67	0.0488	0.0296
Jupiter	3951-08-04 02:52 G	3164347.50	3164347.62	3164347.74	0.0489	0.0351
Uranus	3952-03-18 01:40 G	3164574.51	3164574.57	3164574.64	0.0134	0.0118
Uranus	3952-06-14 04:48 G	3164662.62	3164662.70	3164662.80	0.0134	0.0100
Uranus	3952-09-10 08:09 G	3164750.74	3164750.84	3164750.95	0.0134	0.0083
Uranus	3952-12-07 11:16 G	3164838.86	3164838.97	3164839.10	0.0135	0.0066
Uranus	3953-03-05 14:38 G	3164926.99	3164927.11	3164927.24	0.0135	0.0048
Uranus	3953-06-01 17:45 G	3165015.12	3165015.24	3165015.38	0.0135	0.0031
Uranus	3953-08-28 21:07 G	3165103.25	3165103.38	3165103.51	0.0135	0.0013
Uranus	3953-11-25 00:14 G	3165191.38	3165191.51	3165191.65	0.0135	0.0006

Uranus	3954-02-21 03:35 G	3165279.51	3165279.65	3165279.78	0.0135	0.0022	
Uranus	3954-05-20 06:43 G	3165367.65	3165367.78	3165367.91	0.0135	0.0039	
Uranus	3954-08-16 09:50 G	3165455.79	3165455.91	3165456.03	0.0135	0.0056	
Uranus	3954-11-12 12:57 G	3165543.93	3165544.04	3165544.15	0.0135	0.0074	
Uranus	3955-02-08 16:04 G	3165632.08	3165632.17	3165632.27	0.0135	0.0091	
Uranus	3955-05-07 19:11 G	3165720.23	3165720.30	3165720.38	0.0135	0.0108	
Uranus	3955-08-03 22:19 G	3165808.39	3165808.43	3165808.48	0.0135	0.0126	
Saturn	3955-11-28 07:40 G	3165924.79	3165924.82	3165924.85	0.0279	0.0273	
Saturn	3956-02-25 02:52 G	3166013.47	3166013.62	3166013.77	0.0278	0.0133	
Saturn	3956-05-23 22:33 G	3166102.26	3166102.44	3166102.61	0.0277	0.0012	
Moon	3956-05-29 03:21 G	3166107.59	3166107.64	3166107.69	0.2652	0.2500	
Earth	3956-05-29 04:48 G	3166107.64	3166107.70	3166107.77	0.2650	0.2395	*
Saturn	3956-08-20 18:14 G	3166191.11	3166191.26	3166191.41	0.0277	0.0153	
Jupiter	3957-04-08 09:21 G	3166421.75	3166421.89	3166422.02	0.0539	0.0023	
Mars	3957-05-17 03:35 G	3166460.50	3166460.65	3166460.80	0.1682	0.0584	
Mars	3958-03-28 14:38 G	3166776.01	3166776.11	3166776.22	0.1837	0.0761	
Earth	3959-12-03 06:43 G	3167390.68	3167390.78	3167390.89	0.2683	0.0707	
Moon	3959-12-03 07:26 G	3167390.70	3167390.81	3167390.91	0.2679	0.0684	*
Jupiter	3963-02-22 00:00 G	3168567.44	3168567.50	3168567.56	0.0488	0.0451	
Jupiter	3963-05-23 01:40 G	3168657.41	3168657.57	3168657.73	0.0489	0.0187	
Mars	3966-10-07 04:19 G	3169890.59	3169890.68	3169890.77	0.1676	0.1395	
Mars	3967-08-18 23:31 G	3170206.37	3170206.48	3170206.60	0.1844	0.0122	
Jupiter	3969-01-25 12:43 G	3170731.91	3170732.03	3170732.16	0.0539	0.0166	
Jupiter	3969-04-24 21:50 G	3170821.34	3170821.41	3170821.47	0.0538	0.0458	
Moon	3969-06-01 10:04 G	3170858.76	3170858.92	3170859.07	0.2654	0.0153	
Earth	3969-06-01 10:48 G	3170858.80	3170858.95	3170859.11	0.2648	0.0363	*
Saturn	3971-06-21 08:09 G	3171608.79	3171608.84	3171608.89	0.0281	0.0257	
Saturn	3971-09-17 20:52 G	3171697.25	3171697.37	3171697.50	0.0282	0.0138	
Saturn	3971-12-15 09:35 G	3171785.77	3171785.90	3171786.04	0.0283	0.0020	
Saturn	3972-03-12 22:04 G	3171874.30	3171874.42	3171874.55	0.0283	0.0101	

Saturn 3972-06-09 10:33 G 3171962.86 3171962.94 3171963.03 0.0284 0.0218

Earth 3972-12-05 00:43 G 3172141.42 3172141.53 3172141.63 0.2685 0.0708

Moon 3972-12-05 00:43 G 3172141.43 3172141.53 3172141.64 0.2679 0.0759 *

Jupiter 3975-03-11 00:28 G 3172967.35 3172967.52 3172967.70 0.0489 0.0028

Venus 3977-01-03 22:33 G 3173632.41 3173632.44 3173632.46 0.3677 0.3560

Mars 3977-01-08 08:09 G 3173636.73 3173636.84 3173636.95 0.1851 0.0575

Mars 3978-02-03 03:35 G 3174027.53 3174027.65 3174027.76 0.1695 0.1209

Venus 3978-07-20 06:43 G 3174194.73 3174194.78 3174194.83 0.3692 0.3412

Jupiter 3980-11-13 15:50 G 3175042.05 3175042.16 3175042.26 0.0539 0.0327

Jupiter 3981-02-11 01:11 G 3175131.44 3175131.55 3175131.66 0.0538 0.0303

Venus 3982-07-20 15:35 G 3175656.06 3175656.15 3175656.24 0.3678 0.2145

Venus 3984-02-03 10:04 G 3176218.78 3176218.92 3176219.06 0.3691 0.0587

Saturn 3985-07-14 02:38 G 3176745.48 3176745.61 3176745.74 0.0278 0.0175

Saturn 3985-10-10 22:04 G 3176834.25 3176834.42 3176834.59 0.0277 0.0034

Moon 3985-12-07 18:00 G 3176892.18 3176892.25 3176892.32 0.2680 0.2016

Earth 3985-12-07 18:14 G 3176892.20 3176892.26 3176892.33 0.2686 0.2097 *

Saturn 3986-01-07 17:45 G 3176923.08 3176923.24 3176923.40 0.0277 0.0109

Saturn 3986-04-06 13:40 G 3177012.01 3177012.07 3177012.14 0.0276 0.0254

Mars 3986-05-31 16:48 G 3177067.11 3177067.20 3177067.28 0.1858 0.1269

Jupiter 3986-12-28 00:00 G 3177277.33 3177277.50 3177277.67 0.0489 0.0131

Mars 3987-06-26 03:35 G 3177457.49 3177457.65 3177457.82 0.1688 0.0348

Venus 3988-02-03 08:38 G 3177679.75 3177679.86 3177679.96 0.3679 0.0767

Mars 3988-05-06 05:31 G 3177772.67 3177772.73 3177772.80 0.1830 0.1460

Venus 3989-08-19 14:09 G 3178242.99 3178243.09 3178243.20 0.3690 0.2462

Jupiter 3992-09-01 18:00 G 3179352.21 3179352.25 3179352.30 0.0539 0.0504

Jupiter 3992-11-30 03:50 G 3179441.53 3179441.66 3179441.79 0.0538 0.0135

Earth 3992-11-30 17:45 G 3179442.16 3179442.24 3179442.32 0.2682 0.1831

Moon 3992-11-30 18:28 G 3179442.18 3179442.27 3179442.35 0.2682 0.1784 *

Uranus 3993-01-05 03:21 G 3179477.58 3179477.64 3179477.72 0.0144 0.0132

Uranus 3993-04-03 10:48 G 3179565.84 3179565.95 3179566.09 0.0144 0.0104

Uranus	**3993-06-30 18:43**	**G**	**3179654.13**	**3179654.28**	**3179654.45**	**0.0144**	**0.0075**	
Venus	**3993-08-19 01:11**	**G**	**3179703.45**	**3179703.55**	**3179703.66**	**0.3680**	**0.0602**	
Uranus	**3993-09-27 02:38**	**G**	**3179742.44**	**3179742.61**	**3179742.79**	**0.0144**	**0.0045**	
Uranus	**3993-12-24 10:33**	**G**	**3179830.75**	**3179830.94**	**3179831.12**	**0.0144**	**0.0016**	
Uranus	**3994-03-22 18:14**	**G**	**3179919.08**	**3179919.26**	**3179919.45**	**0.0144**	**0.0014**	
Uranus	**3994-06-19 02:09**	**G**	**3180007.41**	**3180007.59**	**3180007.77**	**0.0143**	**0.0043**	
Uranus	**3994-09-15 10:04**	**G**	**3180095.76**	**3180095.92**	**3180096.09**	**0.0143**	**0.0072**	
Uranus	**3994-12-12 17:45**	**G**	**3180184.12**	**3180184.24**	**3180184.39**	**0.0143**	**0.0103**	
Uranus	**3995-03-11 02:09**	**G**	**3180272.52**	**3180272.59**	**3180272.66**	**0.0143**	**0.0132**	
Mars	**3996-11-15 04:04**	**G**	**3180887.51**	**3180887.67**	**3180887.82**	**0.1682**	**0.0506**	
Mars	**3997-09-26 14:38**	**G**	**3181203.01**	**3181203.11**	**3181203.22**	**0.1837**	**0.0831**	
Jupiter	**3998-10-15 23:02**	**G**	**3181587.32**	**3181587.46**	**3181587.60**	**0.0488**	**0.0290**	
Jupiter	**3999-01-14 01:26**	**G**	**3181677.44**	**3181677.56**	**3181677.68**	**0.0489**	**0.0358**	
Venus	**3999-03-04 18:00**	**G**	**3181727.16**	**3181727.25**	**3181727.34**	**0.3681**	**0.1902**	
Saturn	**4000-11-07 11:16**	**G**	**3182340.97**	**3182340.97**	**3182340.98**	**0.0281**	**0.0281**	

5TH MILLENNIUM CE

This is a list of transits of Mercury in the 5th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	**4001-02-04 00:14**	**G**	**3182429.40**	**3182429.51**	**3182429.62**	**0.0282**	**0.0160**	
Saturn	**4001-05-03 12:57**	**G**	**3182517.90**	**3182518.04**	**3182518.18**	**0.0283**	**0.0041**	
Saturn	**4001-07-31 01:26**	**G**	**3182606.43**	**3182606.56**	**3182606.70**	**0.0283**	**0.0078**	
Saturn	**4001-10-27 13:55**	**G**	**3182694.99**	**3182695.08**	**3182695.18**	**0.0284**	**0.0196**	

Moon 4002-05-30 09:50 G 3182909.82 3182909.91 3182910.01 0.2654 0.2082

Earth 4002-05-30 11:16 G 3182909.86 3182909.97 3182910.08 0.2650 0.1858 *

Venus 4004-09-17 10:33 G 3183750.88 3183750.94 3183750.99 0.3681 0.3183

Jupiter 4004-09-18 06:57 G 3183751.66 3183751.79 3183751.93 0.0539 0.0028

Earth 4005-12-03 11:31 G 3184192.88 3184192.98 3184193.09 0.2683 0.0424

Moon 4005-12-03 12:14 G 3184192.90 3184193.01 3184193.12 0.2679 0.0270 *

Mars 4006-04-07 05:02 G 3184317.61 3184317.71 3184317.81 0.1676 0.1309

Mars 4007-02-16 23:45 G 3184633.37 3184633.49 3184633.60 0.1843 0.0185

Jupiter 4010-08-03 21:35 G 3185897.34 3185897.40 3185897.46 0.0488 0.0455

Jupiter 4010-11-01 23:16 G 3185987.30 3185987.47 3185987.63 0.0489 0.0182

Neptune 4014-08-02 02:38 G 3187356.58 3187356.61 3187356.64 0.0089 0.0087

Neptune 4014-10-29 03:50 G 3187444.61 3187444.66 3187444.74 0.0089 0.0080

Saturn 4014-12-01 04:33 G 3187477.57 3187477.69 3187477.81 0.0278 0.0199

Neptune 4015-01-25 05:31 G 3187532.66 3187532.73 3187532.82 0.0089 0.0072

Saturn 4015-02-28 00:00 G 3187566.33 3187566.50 3187566.67 0.0278 0.0058

Neptune 4015-04-23 07:11 G 3187620.71 3187620.80 3187620.90 0.0089 0.0065

Saturn 4015-05-27 19:40 G 3187655.15 3187655.32 3187655.48 0.0277 0.0084

Moon 4015-06-02 16:33 G 3187661.05 3187661.19 3187661.34 0.2654 0.0922

Earth 4015-06-02 17:31 G 3187661.08 3187661.23 3187661.38 0.2648 0.0917 *

Neptune 4015-07-20 08:38 G 3187708.77 3187708.86 3187708.98 0.0089 0.0058

Saturn 4015-08-24 15:21 G 3187744.05 3187744.14 3187744.25 0.0276 0.0229

Neptune 4015-10-16 10:33 G 3187796.83 3187796.94 3187797.06 0.0089 0.0050

Neptune 4016-01-12 12:00 G 3187884.88 3187885.00 3187885.13 0.0089 0.0043

Neptune 4016-04-09 13:40 G 3187972.94 3187973.07 3187973.20 0.0089 0.0035

Neptune 4016-07-06 15:21 G 3188061.01 3188061.14 3188061.27 0.0089 0.0028

Jupiter 4016-07-07 10:33 G 3188061.82 3188061.94 3188062.07 0.0540 0.0178

Mars 4016-07-09 08:09 G 3188063.73 3188063.84 3188063.96 0.1851 0.0510

Neptune 4016-10-02 16:48 G 3188149.07 3188149.20 3188149.34 0.0089 0.0021

Jupiter 4016-10-04 19:40 G 3188151.25 3188151.32 3188151.39 0.0538 0.0448

Neptune 4016-12-29 18:28 G 3188237.13 3188237.27 3188237.41 0.0089 0.0013

Neptune 4017-03-27 19:55 G 3188325.19 3188325.33 3188325.47 0.0089 0.0006

Pluto 4017-06-05 05:16 G 3188394.71 3188394.72 3188394.79 0.0073 0.0071

Neptune 4017-06-23 21:35 G 3188413.26 3188413.40 3188413.54 0.0089 0.0002

Mars 4017-08-04 04:19 G 3188454.58 3188454.68 3188454.78 0.1695 0.1310

Pluto 4017-09-01 07:40 G 3188482.72 3188482.82 3188482.94 0.0072 0.0058

Neptune 4017-09-19 23:02 G 3188501.32 3188501.46 3188501.60 0.0089 0.0009

Pluto 4017-11-28 09:35 G 3188570.77 3188570.90 3188571.06 0.0072 0.0046

Neptune 4017-12-17 00:28 G 3188589.39 3188589.52 3188589.66 0.0089 0.0016

Pluto 4018-02-24 11:45 G 3188658.84 3188658.99 3188659.16 0.0072 0.0033

Neptune 4018-03-15 01:55 G 3188677.46 3188677.58 3188677.72 0.0089 0.0024

Pluto 4018-05-23 13:40 G 3188746.90 3188747.07 3188747.25 0.0072 0.0021

Neptune 4018-06-11 03:35 G 3188765.52 3188765.65 3188765.78 0.0089 0.0030

Pluto 4018-08-19 15:50 G 3188834.98 3188835.16 3188835.34 0.0072 0.0009

Neptune 4018-09-07 05:02 G 3188853.59 3188853.71 3188853.84 0.0089 0.0037

Pluto 4018-11-15 17:45 G 3188923.06 3188923.24 3188923.42 0.0072 0.0003

Neptune 4018-12-04 06:28 G 3188941.66 3188941.77 3188941.90 0.0089 0.0045

Moon 4018-12-06 05:31 G 3188943.62 3188943.73 3188943.83 0.2678 0.0937

Earth 4018-12-06 05:31 G 3188943.63 3188943.73 3188943.83 0.2685 0.0997 *

Pluto 4019-02-11 19:26 G 3189011.14 3189011.31 3189011.50 0.0072 0.0015

Neptune 4019-03-02 08:09 G 3189029.73 3189029.84 3189029.95 0.0089 0.0052

Pluto 4019-05-10 21:07 G 3189099.23 3189099.38 3189099.56 0.0072 0.0027

Neptune 4019-05-29 09:35 G 3189117.80 3189117.90 3189118.01 0.0089 0.0059

Pluto 4019-08-06 23:16 G 3189187.32 3189187.47 3189187.63 0.0071 0.0038

Neptune 4019-08-25 11:02 G 3189205.87 3189205.96 3189206.06 0.0089 0.0066

Pluto 4019-11-03 00:43 G 3189275.42 3189275.53 3189275.68 0.0071 0.0050

Neptune 4019-11-21 12:28 G 3189293.95 3189294.02 3189294.10 0.0089 0.0073

Pluto 4020-01-30 02:52 G 3189363.54 3189363.62 3189363.72 0.0071 0.0060

Neptune 4020-02-17 13:55 G 3189382.03 3189382.08 3189382.15 0.0089 0.0080

Neptune 4020-05-15 15:35 G 3189470.12 3189470.15 3189470.18 0.0089 0.0087

Jupiter 4022-08-20 22:19 G 3190297.25 3190297.43 3190297.61 0.0488 0.0022

Mars 4025-11-29 16:48 G 3191494.11 3191494.20 3191494.29 0.1857 0.1202

Mars 4026-12-25 04:19 G 3191884.52 3191884.68 3191884.84 0.1688 0.0434

Mars 4027-11-05 05:45 G 3192199.67 3192199.74 3192199.80 0.1829 0.1525

Jupiter 4028-04-25 14:09 G 3192371.98 3192372.09 3192372.19 0.0540 0.0332

Jupiter 4028-07-23 23:31 G 3192461.37 3192461.48 3192461.59 0.0538 0.0301

Saturn 4030-06-24 01:26 G 3193161.47 3193161.56 3193161.66 0.0281 0.0200

Saturn 4030-09-20 14:24 G 3193249.96 3193250.10 3193250.23 0.0282 0.0081

Saturn 4030-12-18 02:52 G 3193338.49 3193338.62 3193338.76 0.0283 0.0039

Saturn 4031-03-16 15:21 G 3193427.03 3193427.14 3193427.26 0.0284 0.0156

Saturn 4031-06-13 03:35 G 3193515.62 3193515.65 3193515.69 0.0284 0.0273

Moon 4031-12-08 22:48 G 3193694.40 3193694.45 3193694.50 0.2681 0.2343

Earth 4031-12-08 23:16 G 3193694.42 3193694.47 3193694.51 0.2687 0.2383 *

Venus 4033-08-10 20:24 G 3194305.29 3194305.35 3194305.40 0.3678 0.3104

Jupiter 4034-06-08 21:21 G 3194607.22 3194607.39 3194607.56 0.0488 0.0138

Venus 4035-02-24 07:11 G 3194867.70 3194867.80 3194867.90 0.3692 0.2568

Uranus 4036-01-10 05:31 G 3195187.71 3195187.73 3195187.76 0.0134 0.0131

Uranus 4036-04-07 08:38 G 3195275.80 3195275.86 3195275.94 0.0134 0.0114

Mars 4036-05-16 04:48 G 3195314.54 3195314.70 3195314.86 0.1682 0.0406

Uranus 4036-07-04 12:14 G 3195363.91 3195364.01 3195364.10 0.0134 0.0096

Uranus 4036-09-30 15:21 G 3195452.03 3195452.14 3195452.25 0.0134 0.0078

Uranus 4036-12-27 18:43 G 3195540.16 3195540.28 3195540.40 0.0135 0.0061

Uranus 4037-03-25 21:50 G 3195628.28 3195628.41 3195628.54 0.0135 0.0043

Mars 4037-03-27 14:38 G 3195630.01 3195630.11 3195630.21 0.1836 0.0893

Uranus 4037-06-22 01:11 G 3195716.41 3195716.55 3195716.68 0.0135 0.0026

Uranus 4037-09-18 04:19 G 3195804.55 3195804.68 3195804.82 0.0135 0.0008

Uranus 4037-12-15 07:26 G 3195892.68 3195892.81 3195892.95 0.0135 0.0010

Uranus 4038-03-13 10:33 G 3195980.82 3195980.94 3195981.08 0.0135 0.0027

Uranus 4038-06-09 13:55 G 3196068.95 3196069.08 3196069.21 0.0135 0.0044

Uranus 4038-09-05 17:02 G 3196157.09 3196157.21 3196157.33 0.0135 0.0061

Earth 4038-12-01 22:33 G 3196244.35 3196244.44 3196244.53 0.2682 0.1535

Moon	4038-12-01 23:16 G	3196244.37	3196244.47	3196244.56	0.2680	0.1394	*
Uranus	4038-12-02 20:09 G	3196245.24	3196245.34	3196245.45	0.0135	0.0078	
Venus	4039-02-24 13:26 G	3196328.96	3196329.06	3196329.16	0.3679	0.1691	
Uranus	4039-02-28 23:16 G	3196333.38	3196333.47	3196333.57	0.0135	0.0096	
Uranus	4039-05-28 02:38 G	3196421.54	3196421.61	3196421.68	0.0135	0.0113	
Uranus	4039-08-24 05:45 G	3196509.70	3196509.74	3196509.77	0.0135	0.0130	
Jupiter	4040-02-12 17:02 G	3196682.16	3196682.21	3196682.27	0.0540	0.0493	
Jupiter	4040-05-12 02:52 G	3196771.50	3196771.62	3196771.75	0.0539	0.0145	
Venus	4040-09-09 10:48 G	3196891.81	3196891.95	3196892.09	0.3691	0.0341	
Saturn	4044-04-19 03:35 G	3198209.58	3198209.65	3198209.73	0.0278	0.0246	
Saturn	4044-07-16 22:48 G	3198298.30	3198298.45	3198298.62	0.0278	0.0106	
Venus	4044-09-09 06:14 G	3198352.66	3198352.76	3198352.87	0.3679	0.0341	
Saturn	4044-10-13 18:28 G	3198387.10	3198387.27	3198387.45	0.0277	0.0037	
Saturn	4045-01-10 14:24 G	3198475.97	3198476.10	3198476.23	0.0276	0.0180	
Mars	4045-10-06 05:31 G	3198744.62	3198744.73	3198744.84	0.1676	0.1221	
Venus	4046-03-26 15:07 G	3198916.07	3198916.13	3198916.18	0.3690	0.3407	
Jupiter	4046-03-27 20:52 G	3198917.23	3198917.37	3198917.51	0.0488	0.0292	
Jupiter	4046-06-25 23:02 G	3199007.34	3199007.46	3199007.58	0.0489	0.0355	
Mars	4046-08-17 23:31 G	3199060.37	3199060.48	3199060.60	0.1844	0.0239	
Moon	4048-05-30 16:33 G	3199712.06	3199712.19	3199712.31	0.2654	0.1462	
Earth	4048-05-30 17:45 G	3199712.11	3199712.24	3199712.37	0.2650	0.1320	*
Venus	4050-03-25 23:02 G	3200376.36	3200376.46	3200376.56	0.3680	0.1014	
Earth	4051-12-04 16:33 G	3200995.08	3200995.19	3200995.30	0.2684	0.0146	
Moon	4051-12-04 17:02 G	3200995.10	3200995.21	3200995.32	0.2679	0.0128	*
Jupiter	4052-02-29 05:31 G	3201081.60	3201081.73	3201081.86	0.0539	0.0025	
Venus	4055-10-09 15:35 G	3202400.07	3202400.15	3202400.24	0.3681	0.2324	
Mars	4056-01-08 08:24 G	3202490.74	3202490.85	3202490.96	0.1850	0.0433	
Mars	4057-02-02 04:48 G	3202881.61	3202881.70	3202881.80	0.1695	0.1397	
Jupiter	4058-01-13 20:09 G	3203227.28	3203227.34	3203227.41	0.0488	0.0448	
Jupiter	4058-04-13 21:50 G	3203317.25	3203317.41	3203317.58	0.0489	0.0191	

Saturn	4059-11-11 04:19 G	3203893.60	3203893.68	3203893.77	0.0282	0.0226	
Saturn	4060-02-07 17:16 G	3203982.09	3203982.22	3203982.35	0.0282	0.0106	
Saturn	4060-05-06 06:00 G	3204070.61	3204070.75	3204070.89	0.0283	0.0014	
Saturn	4060-08-02 18:28 G	3204159.15	3204159.27	3204159.39	0.0284	0.0131	
Saturn	4060-10-30 06:57 G	3204247.72	3204247.79	3204247.85	0.0284	0.0249	
Venus	4061-04-24 08:09 G	3204423.82	3204423.84	3204423.86	0.3682	0.3587	
Moon	4061-06-02 23:31 G	3204463.35	3204463.48	3204463.61	0.2654	0.1333	
Earth	4061-06-03 00:00 G	3204463.37	3204463.50	3204463.63	0.2648	0.1466	*
Jupiter	4063-12-18 08:38 G	3205391.74	3205391.86	3205391.99	0.0539	0.0185	
Jupiter	4064-03-16 17:45 G	3205481.17	3205481.24	3205481.31	0.0538	0.0440	
Moon	4064-12-06 10:04 G	3205745.83	3205745.92	3205746.02	0.2678	0.1324	
Earth	4064-12-06 10:19 G	3205745.83	3205745.93	3205746.02	0.2685	0.1284	*
Mars	4065-05-30 16:48 G	3205921.11	3205921.20	3205921.29	0.1857	0.1133	
Mars	4066-06-25 04:48 G	3206311.55	3206311.70	3206311.86	0.1689	0.0525	
Mars	4067-05-06 05:45 G	3206626.69	3206626.74	3206626.80	0.1829	0.1592	
Jupiter	4070-01-30 19:55 G	3207627.16	3207627.33	3207627.51	0.0488	0.0021	
Earth	4071-11-30 09:21 G	3208295.89	3208295.89	3208295.90	0.2680	0.2667	
Moon	4071-11-30 10:04 G	3208295.89	3208295.92	3208295.94	0.2684	0.2589	*
Saturn	4073-09-06 05:45 G	3208941.70	3208941.74	3208941.78	0.0279	0.0270	
Saturn	4073-12-04 00:57 G	3209030.39	3209030.54	3209030.69	0.0278	0.0130	
Saturn	4074-03-02 20:24 G	3209119.18	3209119.35	3209119.52	0.0277	0.0011	
Saturn	4074-05-30 16:04 G	3209208.03	3209208.17	3209208.32	0.0277	0.0155	
Mars	4074-10-21 00:57 G	3209351.53	3209351.54	3209351.56	0.1864	0.1851	
Jupiter	4075-10-06 12:00 G	3209701.90	3209702.00	3209702.10	0.0540	0.0341	
Mars	4075-11-15 05:31 G	3209741.57	3209741.73	3209741.89	0.1683	0.0318	
Jupiter	4076-01-03 21:35 G	3209791.29	3209791.40	3209791.51	0.0539	0.0293	
Mars	4076-09-25 14:38 G	3210057.01	3210057.11	3210057.21	0.1836	0.0953	
Uranus	4077-01-25 10:04 G	3210178.85	3210178.92	3210179.02	0.0144	0.0127	
Uranus	4077-04-23 18:00 G	3210267.12	3210267.25	3210267.39	0.0144	0.0098	
Uranus	4077-07-21 01:40 G	3210355.41	3210355.57	3210355.74	0.0144	0.0069	

Uranus 4077-10-17 09:35 G 3210443.72 3210443.90 3210444.08 0.0144 0.0040

Moon 4077-12-09 03:21 G 3210496.61 3210496.64 3210496.68 0.2683 0.2541

Earth 4077-12-09 04:04 G 3210496.66 3210496.67 3210496.67 0.2687 0.2670 *

Uranus 4078-01-13 17:16 G 3210532.04 3210532.22 3210532.41 0.0144 0.0011

Uranus 4078-04-12 01:11 G 3210620.37 3210620.55 3210620.74 0.0143 0.0019

Uranus 4078-07-09 09:07 G 3210708.70 3210708.88 3210709.06 0.0143 0.0048

Uranus 4078-10-05 16:48 G 3210797.05 3210797.20 3210797.37 0.0143 0.0078

Uranus 4079-01-02 00:57 G 3210885.42 3210885.54 3210885.67 0.0143 0.0108

Uranus 4079-03-31 08:52 G 3210973.83 3210973.87 3210973.93 0.0143 0.0137

Jupiter 4081-11-18 19:11 G 3211937.13 3211937.30 3211937.47 0.0488 0.0139

Earth 4084-12-02 03:21 G 3213046.55 3213046.64 3213046.74 0.2682 0.1238

Moon 4084-12-02 04:04 G 3213046.57 3213046.67 3213046.77 0.2680 0.1159 *

Mars 4085-04-06 06:14 G 3213171.64 3213171.76 3213171.88 0.1676 0.1131

Mars 4086-02-15 23:45 G 3213487.37 3213487.49 3213487.60 0.1843 0.0307

Jupiter 4087-07-25 15:21 G 3214012.09 3214012.14 3214012.19 0.0540 0.0496

Jupiter 4087-10-23 01:11 G 3214101.43 3214101.55 3214101.68 0.0539 0.0145

Saturn 4089-03-30 05:31 G 3214625.69 3214625.73 3214625.78 0.0281 0.0266

Saturn 4089-06-26 18:28 G 3214714.15 3214714.27 3214714.39 0.0282 0.0147

Saturn 4089-09-23 07:11 G 3214802.66 3214802.80 3214802.94 0.0282 0.0028

Saturn 4089-12-20 19:40 G 3214891.19 3214891.32 3214891.45 0.0283 0.0090

Venus 4090-03-17 18:14 G 3214978.19 3214978.26 3214978.33 0.3678 0.2639

Saturn 4090-03-19 08:09 G 3214979.75 3214979.84 3214979.93 0.0284 0.0207

Venus 4091-10-01 07:40 G 3215540.70 3215540.82 3215540.95 0.3692 0.1687

Jupiter 4093-09-06 18:28 G 3216247.13 3216247.27 3216247.41 0.0488 0.0296

Jupiter 4093-12-05 20:38 G 3216337.24 3216337.36 3216337.48 0.0489 0.0350

Moon 4094-05-31 23:02 G 3216514.31 3216514.46 3216514.60 0.2654 0.0950

Earth 4094-06-01 00:14 G 3216514.36 3216514.51 3216514.66 0.2650 0.0775 *

Mars 4095-07-09 08:24 G 3216917.73 3216917.85 3216917.96 0.1850 0.0377

Venus 4095-10-01 11:16 G 3217001.87 3217001.97 3217002.07 0.3679 0.1244

Mars 4096-08-03 05:45 G 3217308.66 3217308.74 3217308.81 0.1695 0.1498

Neptune 4097-01-18 07:40 G 3217476.81 3217476.82 3217476.87 0.0088 0.0087

Venus 4097-04-16 11:31 G 3217564.85 3217564.98 3217565.12 0.3691 0.1262

Neptune 4097-04-16 10:48 G 3217564.88 3217564.95 3217565.04 0.0088 0.0078 *

Neptune 4097-07-13 13:40 G 3217652.97 3217653.07 3217653.19 0.0088 0.0069

Neptune 4097-10-09 16:48 G 3217741.08 3217741.20 3217741.34 0.0088 0.0060

Earth 4097-12-04 21:21 G 3217797.28 3217797.39 3217797.50 0.2684 0.0186

Moon 4097-12-04 21:35 G 3217797.29 3217797.40 3217797.51 0.2678 0.0270 *

Neptune 4098-01-05 19:55 G 3217829.18 3217829.33 3217829.47 0.0088 0.0051

Neptune 4098-04-03 22:33 G 3217917.29 3217917.44 3217917.61 0.0088 0.0043

Neptune 4098-07-01 01:40 G 3218005.41 3218005.57 3218005.74 0.0088 0.0034

Neptune 4098-09-27 04:33 G 3218093.52 3218093.69 3218093.87 0.0088 0.0025

Neptune 4098-12-24 07:40 G 3218181.64 3218181.82 3218182.00 0.0088 0.0016

Neptune 4099-03-22 10:48 G 3218269.77 3218269.95 3218270.13 0.0088 0.0007

Neptune 4099-06-18 13:40 G 3218357.89 3218358.07 3218358.26 0.0088 0.0003

Jupiter 4099-08-11 04:48 G 3218411.56 3218411.70 3218411.83 0.0539 0.0022

Neptune 4099-09-14 16:48 G 3218446.02 3218446.20 3218446.38 0.0088 0.0011

Neptune 4099-12-11 19:40 G 3218534.15 3218534.32 3218534.50 0.0088 0.0020

Neptune 4100-03-09 22:48 G 3218622.28 3218622.45 3218622.63 0.0088 0.0029

Neptune 4100-06-06 01:55 G 3218710.42 3218710.58 3218710.75 0.0088 0.0038

Neptune 4100-09-02 04:33 G 3218798.55 3218798.69 3218798.86 0.0088 0.0048

Neptune 4100-11-29 07:40 G 3218886.70 3218886.82 3218886.98 0.0088 0.0057

Neptune 4101-02-25 10:48 G 3218974.85 3218974.95 3218975.09 0.0088 0.0066

Venus 4101-04-17 04:04 G 3219025.56 3219025.67 3219025.78 0.3680 0.0131

Neptune 4101-05-24 13:55 G 3219063.00 3219063.08 3219063.19 0.0088 0.0075

Neptune 4101-08-20 17:16 G 3219151.18 3219151.22 3219151.28 0.0088 0.0084

Saturn 4103-04-23 23:31 G 3219762.35 3219762.48 3219762.61 0.0278 0.0181

Saturn 4103-07-21 18:43 G 3219851.11 3219851.28 3219851.46 0.0278 0.0040

Saturn 4103-10-18 14:24 G 3219939.94 3219940.10 3219940.27 0.0277 0.0104

Saturn 4104-01-15 10:33 G 3220028.86 3220028.94 3220029.02 0.0276 0.0248

Mars 4104-11-29 16:48 G 3220348.11 3220348.20 3220348.30 0.1857 0.1067

Jupiter	4105-06-26 18:00 G	3220557.19	3220557.25	3220557.32	0.0488	0.0448	
Jupiter	4105-09-24 19:40 G	3220647.16	3220647.32	3220647.49	0.0489	0.0191	
Mars	4105-12-25 05:31 G	3220738.58	3220738.73	3220738.89	0.1689	0.0621	
Venus	4106-10-31 20:52 G	3221049.27	3221049.37	3221049.47	0.3680	0.1440	
Mars	4106-11-05 05:31 G	3221053.69	3221053.73	3221053.78	0.1829	0.1647	
Moon	4107-06-05 06:28 G	3221265.68	3221265.77	3221265.87	0.2654	0.2074	
Earth	4107-06-05 06:28 G	3221265.68	3221265.77	3221265.87	0.2648	0.2026	*
Moon	4110-12-08 14:52 G	3222548.03	3222548.12	3222548.21	0.2678	0.1487	
Earth	4110-12-08 15:07 G	3222548.04	3222548.13	3222548.22	0.2685	0.1575	*
Jupiter	4111-05-31 07:26 G	3222721.68	3222721.81	3222721.93	0.0539	0.0181	
Jupiter	4111-08-28 16:33 G	3222811.12	3222811.19	3222811.26	0.0538	0.0444	
Venus	4112-05-16 13:26 G	3223072.99	3223073.06	3223073.13	0.3681	0.2735	
Mars	4114-04-22 01:11 G	3223778.52	3223778.55	3223778.58	0.1863	0.1775	
Mars	4115-05-17 06:00 G	3224168.59	3224168.75	3224168.91	0.1682	0.0232	
Mars	4116-03-27 14:52 G	3224484.02	3224484.12	3224484.21	0.1836	0.1025	
Jupiter	4117-07-13 18:43 G	3224957.11	3224957.28	3224957.46	0.0489	0.0031	
Earth	4117-12-01 14:24 G	3225098.05	3225098.10	3225098.15	0.2681	0.2369	
Moon	4117-12-01 14:52 G	3225098.06	3225098.12	3225098.18	0.2682	0.2243	*
Saturn	4118-11-14 20:52 G	3225446.27	3225446.37	3225446.48	0.0282	0.0176	
Saturn	4119-02-11 09:50 G	3225534.77	3225534.91	3225535.04	0.0283	0.0057	
Saturn	4119-05-10 22:19 G	3225623.30	3225623.43	3225623.57	0.0283	0.0062	
Saturn	4119-08-07 10:48 G	3225711.85	3225711.95	3225712.06	0.0284	0.0180	
Uranus	4120-01-31 12:28 G	3225888.99	3225889.02	3225889.07	0.0134	0.0127	
Uranus	4120-04-28 15:50 G	3225977.09	3225977.16	3225977.24	0.0134	0.0109	
Uranus	4120-07-25 19:11 G	3226065.21	3226065.30	3226065.40	0.0134	0.0092	
Uranus	4120-10-21 22:19 G	3226153.33	3226153.43	3226153.55	0.0134	0.0075	
Uranus	4121-01-18 01:40 G	3226241.45	3226241.57	3226241.70	0.0134	0.0057	
Uranus	4121-04-16 05:02 G	3226329.58	3226329.71	3226329.84	0.0135	0.0039	
Uranus	4121-07-13 08:09 G	3226417.71	3226417.84	3226417.98	0.0135	0.0022	
Uranus	4121-10-09 11:31 G	3226505.84	3226505.98	3226506.11	0.0135	0.0005	

Uranus 4122-01-05 14:38 G 3226593.98 3226594.11 3226594.24 0.0135 0.0013

Uranus 4122-04-03 17:45 G 3226682.11 3226682.24 3226682.37 0.0135 0.0030

Uranus 4122-06-30 20:52 G 3226770.25 3226770.37 3226770.50 0.0135 0.0048

Uranus 4122-09-27 00:00 G 3226858.39 3226858.50 3226858.63 0.0135 0.0065

Uranus 4122-12-24 03:21 G 3226946.54 3226946.64 3226946.75 0.0135 0.0082

Jupiter 4123-03-19 10:19 G 3227031.83 3227031.93 3227032.03 0.0539 0.0343

Uranus 4123-03-22 06:28 G 3227034.68 3227034.77 3227034.86 0.0135 0.0099

Jupiter 4123-06-16 19:55 G 3227121.22 3227121.33 3227121.44 0.0538 0.0290

Uranus 4123-06-18 09:35 G 3227122.84 3227122.90 3227122.97 0.0135 0.0117

Uranus 4123-09-14 12:43 G 3227211.02 3227211.03 3227211.05 0.0135 0.0134

Mars 4124-10-06 06:57 G 3227598.66 3227598.79 3227598.91 0.1677 0.1045

Mars 4125-08-17 23:45 G 3227914.37 3227914.49 3227914.60 0.1843 0.0371

Jupiter 4129-05-01 17:16 G 3229267.05 3229267.22 3229267.39 0.0488 0.0138

Earth 4130-12-04 08:24 G 3229848.74 3229848.85 3229848.95 0.2682 0.0949

Moon 4130-12-04 08:52 G 3229848.77 3229848.87 3229848.98 0.2680 0.0830 *

Saturn 4132-09-10 00:57 G 3230494.43 3230494.54 3230494.66 0.0279 0.0208

Saturn 4132-12-07 20:24 G 3230583.18 3230583.35 3230583.52 0.0278 0.0067

Saturn 4133-03-06 16:04 G 3230672.00 3230672.17 3230672.34 0.0277 0.0076

Saturn 4133-06-03 12:00 G 3230760.89 3230761.00 3230761.11 0.0277 0.0220

Jupiter 4135-01-05 13:26 G 3231342.02 3231342.06 3231342.11 0.0540 0.0504

Mars 4135-01-08 08:24 G 3231344.73 3231344.85 3231344.96 0.1850 0.0306

Jupiter 4135-04-04 23:31 G 3231431.35 3231431.48 3231431.60 0.0539 0.0139

Mars 4136-02-03 06:14 G 3231735.71 3231735.76 3231735.82 0.1695 0.1593

Moon 4140-06-02 05:31 G 3233316.58 3233316.73 3233316.89 0.2654 0.0400

Earth 4140-06-02 06:43 G 3233316.63 3233316.78 3233316.94 0.2649 0.0238 *

Jupiter 4141-02-17 16:48 G 3233577.06 3233577.20 3233577.34 0.0488 0.0293

Venus 4141-04-08 23:02 G 3233627.44 3233627.46 3233627.47 0.3678 0.3602

Jupiter 4141-05-18 18:43 G 3233667.16 3233667.28 3233667.41 0.0489 0.0352

Venus 4142-10-23 05:02 G 3234189.69 3234189.71 3234189.74 0.3692 0.3599

Earth 4143-12-07 02:09 G 3234599.48 3234599.59 3234599.70 0.2684 0.0470

Moon	4143-12-07 02:24 G	3234599.49	3234599.60	3234599.71	0.2677	0.0468 *
Mars	4144-05-30 16:48 G	3234775.11	3234775.20	3234775.30	0.1857	0.1000
Mars	4145-06-25 06:28 G	3235165.62	3235165.77	3235165.91	0.1689	0.0715
Mars	4146-05-06 05:45 G	3235480.70	3235480.74	3235480.78	0.1829	0.1716
Venus	4146-10-23 16:04 G	3235651.09	3235651.17	3235651.26	0.3678	0.2181
Jupiter	4147-01-22 03:07 G	3235741.50	3235741.63	3235741.76	0.0539	0.0016
Saturn	4148-04-02 22:19 G	3236178.34	3236178.43	3236178.52	0.0281	0.0216
Venus	4148-05-08 08:24 G	3236213.71	3236213.85	3236213.99	0.3691	0.0789
Saturn	4148-06-30 11:02 G	3236266.83	3236266.96	3236267.09	0.0282	0.0097
Saturn	4148-09-26 23:45 G	3236355.35	3236355.49	3236355.63	0.0282	0.0021
Saturn	4148-12-24 12:14 G	3236443.89	3236444.01	3236444.13	0.0283	0.0138
Saturn	4149-03-23 00:28 G	3236532.46	3236532.52	3236532.58	0.0284	0.0254
Venus	4152-05-08 09:07 G	3237674.77	3237674.88	3237674.99	0.3679	0.0796
Jupiter	4152-12-06 16:04 G	3237887.11	3237887.17	3237887.24	0.0488	0.0447
Jupiter	4153-03-06 17:45 G	3237977.07	3237977.24	3237977.40	0.0489	0.0190
Moon	4153-06-05 13:11 G	3238068.02	3238068.05	3238068.09	0.2655	0.2570
Earth	4153-06-05 13:11 G	3238068.02	3238068.05	3238068.08	0.2648	0.2580 *
Mars	4153-10-21 01:11 G	3238205.50	3238205.55	3238205.59	0.1864	0.1717
Venus	4153-11-22 12:28 G	3238237.90	3238238.02	3238238.13	0.3690	0.2203
Mars	4154-11-15 06:43 G	3238595.62	3238595.78	3238595.94	0.1683	0.0136
Mars	4155-09-26 14:38 G	3238911.02	3238911.11	3238911.21	0.1836	0.1084
Moon	4156-12-08 19:40 G	3239350.24	3239350.32	3239350.40	0.2679	0.1877
Earth	4156-12-08 19:55 G	3239350.25	3239350.33	3239350.41	0.2685	0.1865 *
Venus	4157-11-22 01:55 G	3239698.47	3239698.58	3239698.69	0.3680	0.0549
Jupiter	4158-11-10 06:28 G	3240051.65	3240051.77	3240051.90	0.0539	0.0167
Jupiter	4159-02-07 15:35 G	3240141.09	3240141.15	3240141.22	0.0538	0.0459
Uranus	4161-02-15 16:48 G	3240880.11	3240880.20	3240880.31	0.0144	0.0122
Uranus	4161-05-15 00:43 G	3240968.39	3240968.53	3240968.67	0.0144	0.0093
Uranus	4161-08-11 08:24 G	3241056.69	3241056.85	3241057.02	0.0144	0.0064
Uranus	4161-11-07 16:04 G	3241144.99	3241145.17	3241145.36	0.0144	0.0035

Saturn 4162-01-27 23:02 G 3241226.41 3241226.46 3241226.52 0.0279 0.0262

Uranus 4162-02-04 00:00 G 3241233.31 3241233.50 3241233.69 0.0144 0.0006

Saturn 4162-04-26 18:14 G 3241315.11 3241315.26 3241315.42 0.0278 0.0122

Uranus 4162-05-03 07:55 G 3241321.64 3241321.83 3241322.01 0.0143 0.0024

Saturn 4162-07-24 13:55 G 3241403.90 3241404.08 3241404.25 0.0278 0.0021

Uranus 4162-07-30 15:35 G 3241409.98 3241410.15 3241410.33 0.0143 0.0053

Saturn 4162-10-21 09:35 G 3241492.76 3241492.90 3241493.04 0.0277 0.0164

Uranus 4162-10-26 23:45 G 3241498.33 3241498.49 3241498.64 0.0143 0.0083

Uranus 4163-01-23 07:26 G 3241586.70 3241586.81 3241586.94 0.0143 0.0113

Uranus 4163-04-21 15:21 G 3241675.13 3241675.14 3241675.17 0.0143 0.0142

Venus 4163-06-07 18:43 G 3241722.18 3241722.28 3241722.37 0.3681 0.1871

Earth 4163-12-02 19:11 G 3241900.23 3241900.30 3241900.37 0.2681 0.2068

Moon 4163-12-02 19:55 G 3241900.26 3241900.33 3241900.40 0.2682 0.2011 *

Mars 4164-04-06 07:26 G 3242025.68 3242025.81 3242025.95 0.1677 0.0955

Jupiter 4164-12-23 17:02 G 3242287.03 3242287.21 3242287.39 0.0489 0.0033

Mars 4165-02-15 23:45 G 3242341.38 3242341.49 3242341.60 0.1843 0.0435

Venus 4168-12-21 11:02 G 3243745.91 3243745.96 3243746.02 0.3681 0.3153

Jupiter 4170-08-29 09:21 G 3244361.79 3244361.89 3244361.99 0.0539 0.0335

Jupiter 4170-11-26 18:43 G 3244451.17 3244451.28 3244451.39 0.0538 0.0298

Earth 4173-05-31 07:11 G 3245367.74 3245367.80 3245367.86 0.2651 0.2441

Mars 4174-07-09 08:24 G 3245771.74 3245771.85 3245771.97 0.1850 0.0240

Mars 4175-08-04 06:57 G 3246162.78 3246162.79 3246162.81 0.1695 0.1683

Jupiter 4176-10-11 16:19 G 3246597.01 3246597.18 3246597.35 0.0488 0.0126

Earth 4176-12-04 13:11 G 3246650.94 3246651.05 3246651.15 0.2683 0.0651

Moon 4176-12-04 13:40 G 3246650.96 3246651.07 3246651.18 0.2680 0.0553 *

Saturn 4177-08-21 00:14 G 3246910.45 3246910.51 3246910.57 0.0281 0.0250

Saturn 4177-11-17 12:57 G 3246998.92 3246999.04 3246999.17 0.0282 0.0131

Saturn 4178-02-14 01:40 G 3247087.43 3247087.57 3247087.71 0.0283 0.0014

Saturn 4178-05-13 14:24 G 3247175.97 3247176.10 3247176.22 0.0283 0.0106

Saturn 4178-08-10 02:38 G 3247264.53 3247264.61 3247264.70 0.0284 0.0223

Neptune 4179-04-30 02:09 G 3247527.55 3247527.59 3247527.64 0.0089 0.0084

Neptune 4179-07-27 03:35 G 3247615.59 3247615.65 3247615.74 0.0089 0.0077

Neptune 4179-10-23 05:31 G 3247703.64 3247703.73 3247703.82 0.0089 0.0069

Neptune 4180-01-19 06:57 G 3247791.70 3247791.79 3247791.90 0.0089 0.0062

Neptune 4180-04-16 08:24 G 3247879.75 3247879.85 3247879.97 0.0089 0.0055

Pluto 4180-05-03 10:33 G 3247896.89 3247896.94 3247897.01 0.0071 0.0064

Neptune 4180-07-13 10:19 G 3247967.81 3247967.93 3247968.05 0.0089 0.0047

Pluto 4180-07-30 11:31 G 3247984.90 3247984.98 3247985.07 0.0071 0.0055

Neptune 4180-10-09 11:45 G 3248055.87 3248055.99 3248056.12 0.0089 0.0039

Pluto 4180-10-26 12:28 G 3248072.91 3248073.02 3248073.12 0.0071 0.0047

Neptune 4181-01-05 13:11 G 3248143.93 3248144.05 3248144.19 0.0089 0.0033

Pluto 4181-01-22 13:11 G 3248160.93 3248161.05 3248161.17 0.0071 0.0038

Neptune 4181-04-03 15:07 G 3248231.99 3248232.13 3248232.26 0.0089 0.0025

Pluto 4181-04-20 14:09 G 3248248.96 3248249.09 3248249.21 0.0072 0.0029

Neptune 4181-06-30 16:33 G 3248320.06 3248320.19 3248320.33 0.0089 0.0017

Pluto 4181-07-17 14:52 G 3248336.99 3248337.12 3248337.26 0.0072 0.0020

Neptune 4181-09-26 18:14 G 3248408.12 3248408.26 3248408.40 0.0089 0.0010

Pluto 4181-10-13 15:50 G 3248425.02 3248425.16 3248425.30 0.0072 0.0011

Neptune 4181-12-23 19:40 G 3248496.18 3248496.32 3248496.46 0.0089 0.0003

Pluto 4182-01-09 16:33 G 3248513.05 3248513.19 3248513.33 0.0072 0.0002

Neptune 4182-03-21 21:21 G 3248584.25 3248584.39 3248584.53 0.0089 0.0005

Pluto 4182-04-07 17:31 G 3248601.09 3248601.23 3248601.37 0.0072 0.0007

Jupiter 4182-06-17 12:14 G 3248671.96 3248672.01 3248672.06 0.0540 0.0499

Neptune 4182-06-17 22:48 G 3248672.31 3248672.45 3248672.59 0.0089 0.0012

Pluto 4182-07-04 18:14 G 3248689.13 3248689.26 3248689.40 0.0072 0.0017

Neptune 4182-09-14 00:14 G 3248760.38 3248760.51 3248760.65 0.0089 0.0019

Jupiter 4182-09-14 22:04 G 3248761.29 3248761.42 3248761.55 0.0539 0.0141

Pluto 4182-09-30 19:11 G 3248777.17 3248777.30 3248777.43 0.0072 0.0026

Neptune 4182-12-11 01:40 G 3248848.45 3248848.57 3248848.71 0.0089 0.0027

Pluto 4182-12-27 19:55 G 3248865.22 3248865.33 3248865.46 0.0072 0.0036

Neptune 4183-03-09 03:21 G 3248936.51 3248936.64 3248936.77 0.0089 0.0033

Pluto 4183-03-25 20:38 G 3248953.27 3248953.36 3248953.49 0.0073 0.0046

Neptune 4183-06-05 04:48 G 3249024.58 3249024.70 3249024.83 0.0089 0.0041

Pluto 4183-06-21 21:35 G 3249041.32 3249041.40 3249041.51 0.0073 0.0055

Neptune 4183-09-01 06:14 G 3249112.65 3249112.76 3249112.88 0.0089 0.0048

Pluto 4183-09-17 22:33 G 3249129.39 3249129.44 3249129.52 0.0073 0.0065

Neptune 4183-11-28 07:55 G 3249200.72 3249200.83 3249200.94 0.0089 0.0055

Mars 4183-11-29 16:48 G 3249202.10 3249202.20 3249202.30 0.1857 0.0935

Neptune 4184-02-24 09:21 G 3249288.80 3249288.89 3249288.99 0.0089 0.0062

Neptune 4184-05-22 11:02 G 3249376.87 3249376.96 3249377.04 0.0089 0.0069

Neptune 4184-08-18 12:28 G 3249464.95 3249465.02 3249465.09 0.0089 0.0076

Neptune 4184-11-14 13:55 G 3249553.03 3249553.08 3249553.13 0.0089 0.0083

Mars 4184-12-24 06:57 G 3249592.64 3249592.79 3249592.93 0.1689 0.0800

Mars 4185-11-04 05:45 G 3249907.72 3249907.74 3249907.76 0.1829 0.1780

Moon 4186-06-03 12:28 G 3250118.87 3250119.02 3250119.17 0.2655 0.0262

Earth 4186-06-03 13:11 G 3250118.90 3250119.05 3250119.21 0.2649 0.0319 *

Jupiter 4188-07-30 14:52 G 3250906.99 3250907.12 3250907.27 0.0488 0.0289

Jupiter 4188-10-28 17:02 G 3250997.09 3250997.21 3250997.33 0.0489 0.0356

Earth 4189-12-07 06:57 G 3251401.68 3251401.79 3251401.90 0.2684 0.0762

Moon 4189-12-07 07:11 G 3251401.69 3251401.80 3251401.90 0.2677 0.0806 *

Saturn 4191-09-13 19:40 G 3252047.18 3252047.32 3252047.47 0.0279 0.0151

Saturn 4191-12-11 15:07 G 3252135.96 3252136.13 3252136.31 0.0278 0.0010

Saturn 4192-03-09 10:48 G 3252224.80 3252224.95 3252225.11 0.0277 0.0135

Mars 4193-04-21 01:11 G 3252632.50 3252632.55 3252632.61 0.1863 0.1642

Mars 4194-05-16 07:26 G 3253022.65 3253022.81 3253022.98 0.1683 0.0043

Jupiter 4194-07-04 01:26 G 3253071.43 3253071.56 3253071.69 0.0540 0.0015

Mars 4195-03-27 14:52 G 3253338.03 3253338.12 3253338.21 0.1836 0.1150

Venus 4197-11-13 20:52 G 3254300.32 3254300.37 3254300.43 0.3678 0.3131

Venus 4199-05-30 05:45 G 3254862.64 3254862.74 3254862.83 0.3692 0.2737

Jupiter 4200-05-19 14:38 G 3255217.04 3255217.11 3255217.19 0.0487 0.0440

Jupiter	4200-08-17 16:19 G	3255307.01	3255307.18	3255307.34	0.0488	0.0197
Moon	4202-12-11 00:14 G	3256152.45	3256152.51	3256152.58	0.2680	0.2056
Earth	4202-12-11 00:43 G	3256152.47	3256152.53	3256152.59	0.2686	0.2154 *
Venus	4203-05-31 13:55 G	3256323.99	3256324.08	3256324.18	0.3678	0.1727
Mars	4203-10-07 08:09 G	3256452.70	3256452.84	3256452.98	0.1677	0.0867
Uranus	4204-02-21 19:40 G	3256590.28	3256590.32	3256590.38	0.0134	0.0123
Uranus	4204-05-19 23:02 G	3256678.38	3256678.46	3256678.55	0.0134	0.0105
Uranus	4204-08-16 02:24 G	3256766.50	3256766.60	3256766.70	0.0134	0.0088
Mars	4204-08-17 23:45 G	3256768.38	3256768.49	3256768.60	0.1843	0.0500
Uranus	4204-11-12 05:31 G	3256854.62	3256854.73	3256854.85	0.0134	0.0071
Venus	4204-12-14 09:07 G	3256886.74	3256886.88	3256887.03	0.3691	0.0161
Uranus	4205-02-08 08:52 G	3256942.75	3256942.87	3256943.00	0.0134	0.0053
Uranus	4205-05-07 12:00 G	3257030.88	3257031.00	3257031.14	0.0135	0.0036
Uranus	4205-08-03 15:21 G	3257119.01	3257119.14	3257119.28	0.0135	0.0018
Uranus	4205-10-30 18:43 G	3257207.14	3257207.28	3257207.41	0.0135	0.0004
Uranus	4206-01-26 21:50 G	3257295.28	3257295.41	3257295.54	0.0135	0.0017
Jupiter	4206-04-23 05:02 G	3257381.59	3257381.71	3257381.84	0.0540	0.0165
Uranus	4206-04-25 00:57 G	3257383.41	3257383.54	3257383.67	0.0135	0.0034
Jupiter	4206-07-21 14:24 G	3257471.03	3257471.10	3257471.16	0.0539	0.0462
Uranus	4206-07-22 04:04 G	3257471.55	3257471.67	3257471.80	0.0135	0.0052
Uranus	4206-10-18 07:11 G	3257559.69	3257559.80	3257559.92	0.0135	0.0069
Uranus	4207-01-14 10:33 G	3257647.84	3257647.94	3257648.04	0.0135	0.0086
Saturn	4207-04-07 14:24 G	3257730.99	3257731.10	3257731.21	0.0281	0.0171
Uranus	4207-04-12 13:40 G	3257735.99	3257736.07	3257736.16	0.0135	0.0103
Saturn	4207-07-05 03:07 G	3257819.49	3257819.63	3257819.76	0.0281	0.0053
Uranus	4207-07-09 16:48 G	3257824.15	3257824.20	3257824.26	0.0135	0.0121
Saturn	4207-10-01 15:35 G	3257908.02	3257908.15	3257908.29	0.0282	0.0065
Saturn	4207-12-29 04:04 G	3257996.57	3257996.67	3257996.77	0.0283	0.0181
Venus	4208-12-14 06:57 G	3258347.68	3258347.79	3258347.90	0.3679	0.0351
Earth	4209-12-04 00:00 G	3258702.42	3258702.50	3258702.58	0.2681	0.1772

Moon	4209-12-04 00:43 G	3258702.45	3258702.53	3258702.62	0.2682	0.1608 *
Venus	4210-06-30 13:11 G	3258910.98	3258911.05	3258911.13	0.3690	0.3158
Jupiter	4212-06-05 15:07 G	3259616.96	3259617.13	3259617.31	0.0488	0.0038
Mars	4213-02-26 09:21 G	3259882.87	3259882.89	3259882.90	0.1671	0.1657
Mars	4214-01-08 08:24 G	3260198.73	3260198.85	3260198.97	0.1850	0.0176
Venus	4214-06-29 23:45 G	3260371.39	3260371.49	3260371.59	0.3680	0.0983
Jupiter	4218-02-09 08:24 G	3261691.75	3261691.85	3261691.96	0.0540	0.0321
Jupiter	4218-05-09 18:00 G	3261781.15	3261781.25	3261781.36	0.0539	0.0314
Moon	4219-06-02 12:14 G	3262169.91	3262170.01	3262170.11	0.2654	0.1994
Earth	4219-06-02 13:40 G	3262169.97	3262170.07	3262170.18	0.2651	0.1905 *
Venus	4220-01-13 16:19 G	3262395.10	3262395.18	3262395.27	0.3681	0.2290
Saturn	4221-01-31 17:02 G	3262779.10	3262779.21	3262779.33	0.0279	0.0209
Saturn	4221-04-30 12:28 G	3262867.85	3262868.02	3262868.19	0.0278	0.0068
Saturn	4221-07-28 08:09 G	3262956.67	3262956.84	3262957.01	0.0277	0.0075
Saturn	4221-10-25 04:04 G	3263045.56	3263045.67	3263045.78	0.0277	0.0219
Earth	4222-12-06 18:00 G	3263453.14	3263453.25	3263453.36	0.2683	0.0351
Moon	4222-12-06 18:28 G	3263453.16	3263453.27	3263453.38	0.2678	0.0308 *
Mars	4223-05-31 17:02 G	3263629.10	3263629.21	3263629.31	0.1857	0.0862
Jupiter	4224-03-24 14:38 G	3263926.94	3263927.11	3263927.28	0.0488	0.0119
Mars	4224-06-25 07:40 G	3264019.68	3264019.82	3264019.96	0.1689	0.0902
Venus	4225-07-29 08:52 G	3264418.85	3264418.87	3264418.89	0.3682	0.3552
Jupiter	4229-11-28 11:16 G	3266001.92	3266001.97	3266002.02	0.0539	0.0487
Jupiter	4230-02-25 21:07 G	3266091.25	3266091.38	3266091.51	0.0539	0.0152
Moon	4232-06-04 19:11 G	3266921.16	3266921.30	3266921.45	0.2656	0.0713
Earth	4232-06-04 19:40 G	3266921.18	3266921.32	3266921.47	0.2649	0.0858 *
Mars	4232-10-21 01:26 G	3267059.50	3267059.56	3267059.62	0.1863	0.1573
Mars	4233-11-15 07:55 G	3267449.66	3267449.83	3267449.99	0.1683	0.0040
Mars	4234-09-26 14:52 G	3267765.03	3267765.12	3267765.20	0.1836	0.1216
Moon	4235-12-09 12:00 G	3268203.89	3268204.00	3268204.10	0.2677	0.1066
Earth	4235-12-09 11:45 G	3268203.89	3268203.99	3268204.09	0.2684	0.1055 *

Jupiter	4236-01-11 14:09 G	3268236.95	3268237.09	3268237.23	0.0488	0.0275	
Jupiter	4236-04-10 16:04 G	3268327.06	3268327.17	3268327.29	0.0489	0.0372	
Saturn	4236-08-24 16:04 G	3268463.07	3268463.17	3268463.26	0.0281	0.0207	
Saturn	4236-11-21 04:48 G	3268551.57	3268551.70	3268551.83	0.0282	0.0088	
Saturn	4237-02-17 17:31 G	3268640.09	3268640.23	3268640.37	0.0283	0.0030	
Saturn	4237-05-17 06:00 G	3268728.63	3268728.75	3268728.87	0.0283	0.0147	
Saturn	4237-08-13 18:14 G	3268817.22	3268817.26	3268817.31	0.0284	0.0264	
Jupiter	4241-12-15 00:28 G	3270401.38	3270401.52	3270401.65	0.0539	0.0020	
Mars	4243-04-07 08:38 G	3270879.72	3270879.86	3270880.01	0.1677	0.0780	
Mars	4244-02-16 23:45 G	3271195.38	3271195.49	3271195.60	0.1843	0.0568	
Uranus	4245-03-08 23:16 G	3271581.37	3271581.47	3271581.58	0.0144	0.0118	
Uranus	4245-06-05 06:57 G	3271669.65	3271669.79	3271669.94	0.0144	0.0090	
Uranus	4245-09-01 14:38 G	3271757.95	3271758.11	3271758.29	0.0144	0.0061	
Uranus	4245-11-28 22:33 G	3271846.26	3271846.44	3271846.62	0.0144	0.0031	
Uranus	4246-02-25 06:28 G	3271934.58	3271934.77	3271934.96	0.0143	0.0002	
Uranus	4246-05-24 14:09 G	3272022.91	3272023.09	3272023.28	0.0143	0.0028	
Uranus	4246-08-20 21:50 G	3272111.25	3272111.41	3272111.60	0.0143	0.0058	
Uranus	4246-11-17 06:00 G	3272199.60	3272199.75	3272199.90	0.0143	0.0086	
Uranus	4247-02-13 13:40 G	3272287.98	3272288.07	3272288.19	0.0143	0.0117	
Jupiter	4247-10-30 13:11 G	3272546.98	3272547.05	3272547.13	0.0488	0.0432	
Jupiter	4248-01-28 14:38 G	3272636.95	3272637.11	3272637.27	0.0488	0.0204	
Moon	4248-12-11 05:02 G	3272954.66	3272954.71	3272954.76	0.2681	0.2385	
Earth	4248-12-11 05:31 G	3272954.69	3272954.73	3272954.77	0.2686	0.2444	*
Saturn	4250-06-20 18:00 G	3273511.17	3273511.25	3273511.34	0.0279	0.0242	
Saturn	4250-09-17 13:26 G	3273599.90	3273600.06	3273600.22	0.0279	0.0101	
Saturn	4250-12-15 08:52 G	3273688.70	3273688.87	3273689.05	0.0278	0.0043	
Saturn	4251-03-14 04:48 G	3273777.57	3273777.70	3273777.83	0.0277	0.0186	
Mars	4252-08-27 09:50 G	3274309.86	3274309.91	3274309.97	0.1671	0.1568	
Mars	4253-07-09 08:24 G	3274625.74	3274625.85	3274625.97	0.1850	0.0111	
Jupiter	4253-10-03 03:35 G	3274711.52	3274711.65	3274711.77	0.0540	0.0167	

Jupiter 4253-12-31 12:43 G 3274800.97 3274801.03 3274801.10 0.0539 0.0462

Venus 4254-06-21 18:43 G 3274973.21 3274973.28 3274973.36 0.3678 0.2669

Earth 4255-12-05 04:48 G 3275504.61 3275504.70 3275504.80 0.2681 0.1476

Moon 4255-12-05 05:45 G 3275504.64 3275504.74 3275504.83 0.2681 0.1432 *

Venus 4256-01-05 06:14 G 3275535.64 3275535.76 3275535.88 0.3692 0.1869

Jupiter 4259-11-16 14:09 G 3276946.91 3276947.09 3276947.26 0.0488 0.0048

Venus 4260-01-05 11:45 G 3276996.89 3276996.99 3276997.10 0.3679 0.1281

Venus 4261-07-21 09:50 G 3277559.78 3277559.91 3277560.05 0.3691 0.1039

Neptune 4261-10-17 07:11 G 3277647.74 3277647.80 3277647.86 0.0088 0.0082

Neptune 4262-01-13 09:35 G 3277735.83 3277735.90 3277736.02 0.0088 0.0074

Neptune 4262-04-11 12:43 G 3277823.92 3277824.03 3277824.16 0.0088 0.0065

Neptune 4262-07-08 15:50 G 3277912.03 3277912.16 3277912.30 0.0088 0.0056

Neptune 4262-10-04 18:43 G 3278000.14 3278000.28 3278000.44 0.0088 0.0047

Mars 4262-11-29 17:02 G 3278056.10 3278056.21 3278056.31 0.1857 0.0799

Neptune 4262-12-31 21:50 G 3278088.25 3278088.41 3278088.57 0.0088 0.0038

Neptune 4263-03-30 00:28 G 3278176.36 3278176.52 3278176.71 0.0088 0.0030

Neptune 4263-06-26 03:35 G 3278264.48 3278264.65 3278264.83 0.0088 0.0021

Neptune 4263-09-22 06:43 G 3278352.60 3278352.78 3278352.96 0.0088 0.0012

Neptune 4263-12-19 09:50 G 3278440.73 3278440.91 3278441.09 0.0088 0.0003

Mars 4263-12-25 08:24 G 3278446.71 3278446.85 3278446.98 0.1689 0.0991

Neptune 4264-03-16 12:43 G 3278528.85 3278529.03 3278529.22 0.0088 0.0007

Neptune 4264-06-12 15:50 G 3278616.98 3278617.16 3278617.34 0.0088 0.0015

Neptune 4264-09-08 18:28 G 3278705.11 3278705.27 3278705.46 0.0088 0.0025

Neptune 4264-12-05 21:35 G 3278793.24 3278793.40 3278793.58 0.0088 0.0034

Neptune 4265-03-04 00:43 G 3278881.38 3278881.53 3278881.70 0.0088 0.0043

Neptune 4265-05-31 03:35 G 3278969.52 3278969.65 3278969.81 0.0088 0.0052

Moon 4265-06-02 18:57 G 3278972.17 3278972.29 3278972.41 0.2654 0.1622

Earth 4265-06-02 20:09 G 3278972.21 3278972.34 3278972.48 0.2651 0.1358 *

Venus 4265-07-21 04:48 G 3279020.59 3279020.70 3279020.81 0.3680 0.0112

Jupiter 4265-07-22 07:11 G 3279021.69 3279021.80 3279021.90 0.0540 0.0318

Neptune 4265-08-27 06:43 G 3279057.66 3279057.78 3279057.93 0.0088 0.0061

Jupiter 4265-10-19 16:48 G 3279111.09 3279111.20 3279111.30 0.0539 0.0318

Neptune 4265-11-23 09:50 G 3279145.81 3279145.91 3279146.03 0.0088 0.0070

Pluto 4265-12-26 12:43 G 3279178.96 3279179.03 3279179.13 0.0072 0.0064

Saturn 4266-01-11 17:16 G 3279195.16 3279195.22 3279195.29 0.0280 0.0246

Neptune 4266-02-19 12:57 G 3279233.98 3279234.04 3279234.13 0.0088 0.0079

Pluto 4266-03-24 14:38 G 3279267.00 3279267.11 3279267.26 0.0072 0.0052

Saturn 4266-04-10 06:14 G 3279283.63 3279283.76 3279283.88 0.0281 0.0128

Pluto 4266-06-20 16:33 G 3279355.06 3279355.19 3279355.36 0.0072 0.0040

Saturn 4266-07-07 18:43 G 3279372.15 3279372.28 3279372.42 0.0281 0.0015

Pluto 4266-09-16 18:43 G 3279443.12 3279443.28 3279443.46 0.0072 0.0027

Saturn 4266-10-04 07:26 G 3279460.68 3279460.81 3279460.93 0.0282 0.0106

Pluto 4266-12-13 20:52 G 3279531.20 3279531.37 3279531.55 0.0072 0.0015

Saturn 4266-12-31 19:40 G 3279549.24 3279549.32 3279549.40 0.0283 0.0222

Pluto 4267-03-11 22:48 G 3279619.27 3279619.45 3279619.64 0.0072 0.0003

Pluto 4267-06-08 00:43 G 3279707.36 3279707.53 3279707.72 0.0072 0.0009

Pluto 4267-09-04 02:38 G 3279795.44 3279795.61 3279795.79 0.0072 0.0021

Pluto 4267-12-01 04:19 G 3279883.53 3279883.68 3279883.85 0.0072 0.0033

Pluto 4268-02-27 06:00 G 3279971.63 3279971.75 3279971.91 0.0071 0.0045

Pluto 4268-05-25 08:09 G 3280059.74 3280059.84 3280059.96 0.0071 0.0056

Pluto 4268-08-21 09:35 G 3280147.87 3280147.90 3280147.98 0.0071 0.0067

Earth 4268-12-06 22:48 G 3280255.34 3280255.45 3280255.56 0.2683 0.0054

Moon 4268-12-06 23:16 G 3280255.36 3280255.47 3280255.58 0.2677 0.0077 *

Venus 4271-02-03 21:35 G 3281044.30 3281044.40 3281044.49 0.3681 0.1415

Jupiter 4271-09-04 13:11 G 3281256.88 3281257.05 3281257.22 0.0488 0.0112

Mars 4272-04-21 01:11 G 3281486.49 3281486.55 3281486.62 0.1863 0.1511

Mars 4273-05-16 08:38 G 3281876.70 3281876.86 3281877.03 0.1683 0.0140

Mars 4274-03-27 14:52 G 3282192.04 3282192.12 3282192.20 0.1836 0.1277

Venus 4276-08-19 14:09 G 3283068.01 3283068.09 3283068.16 0.3681 0.2696

Jupiter 4277-05-10 10:33 G 3283331.88 3283331.94 3283332.00 0.0540 0.0473

Jupiter 4277-08-07 20:24 G 3283421.23 3283421.35 3283421.48 0.0539 0.0169

Moon 4278-06-06 01:55 G 3283723.45 3283723.58 3283723.71 0.2656 0.1462

Earth 4278-06-06 02:24 G 3283723.47 3283723.60 3283723.73 0.2649 0.1414 *

Saturn 4280-02-04 10:19 G 3284331.80 3284331.93 3284332.07 0.0279 0.0161

Saturn 4280-05-03 06:00 G 3284420.57 3284420.75 3284420.92 0.0278 0.0020

Saturn 4280-07-31 01:40 G 3284509.41 3284509.57 3284509.73 0.0278 0.0124

Saturn 4280-10-27 21:35 G 3284598.37 3284598.40 3284598.45 0.0277 0.0269

Moon 4281-12-09 16:33 G 3285006.10 3285006.19 3285006.29 0.2678 0.1323

Earth 4281-12-09 16:33 G 3285006.10 3285006.19 3285006.29 0.2684 0.1349 *

Mars 4282-10-06 09:21 G 3285306.74 3285306.89 3285307.04 0.1677 0.0690

Jupiter 4283-06-23 12:43 G 3285566.89 3285567.03 3285567.18 0.0488 0.0265

Mars 4283-08-17 23:45 G 3285622.38 3285622.49 3285622.60 0.1843 0.0629

Jupiter 4283-09-21 14:52 G 3285657.01 3285657.12 3285657.23 0.0489 0.0381

Uranus 4288-03-13 02:38 G 3287291.56 3287291.61 3287291.68 0.0134 0.0120

Uranus 4288-06-09 06:14 G 3287379.67 3287379.76 3287379.85 0.0134 0.0102

Uranus 4288-09-05 09:21 G 3287467.79 3287467.89 3287468.00 0.0134 0.0084

Uranus 4288-12-02 12:43 G 3287555.91 3287556.03 3287556.15 0.0134 0.0067

Earth 4288-12-02 15:50 G 3287556.13 3287556.16 3287556.18 0.2680 0.2608 *

Moon 4288-12-02 16:19 G 3287556.16 3287556.18 3287556.21 0.2683 0.2568 *

Uranus 4289-02-28 15:50 G 3287644.04 3287644.16 3287644.29 0.0135 0.0050

Jupiter 4289-05-26 23:31 G 3287731.35 3287731.48 3287731.61 0.0539 0.0009

Uranus 4289-05-27 19:11 G 3287732.17 3287732.30 3287732.43 0.0135 0.0032

Uranus 4289-08-23 22:33 G 3287820.30 3287820.44 3287820.57 0.0135 0.0014

Uranus 4289-11-20 01:40 G 3287908.44 3287908.57 3287908.71 0.0135 0.0003

Uranus 4290-02-16 04:48 G 3287996.57 3287996.70 3287996.84 0.0135 0.0021

Uranus 4290-05-15 08:09 G 3288084.71 3288084.84 3288084.97 0.0135 0.0038

Uranus 4290-08-11 11:16 G 3288172.85 3288172.97 3288173.09 0.0135 0.0055

Uranus 4290-11-07 14:24 G 3288260.99 3288261.10 3288261.22 0.0135 0.0073

Uranus 4291-02-03 17:31 G 3288349.14 3288349.23 3288349.33 0.0135 0.0090

Uranus 4291-05-02 20:38 G 3288437.29 3288437.36 3288437.45 0.0135 0.0107

Uranus	4291-07-29 23:45 G	3288525.45	3288525.49	3288525.55	0.0135	0.0125	
Mars	4292-02-26 10:19 G	3288736.86	3288736.93	3288737.00	0.1671	0.1491	
Mars	4293-01-07 08:38 G	3289052.74	3289052.86	3289052.97	0.1850	0.0056	
Moon	4294-12-12 09:50 G	3289756.89	3289756.91	3289756.93	0.2681	0.2636	
Jupiter	4295-04-11 12:28 G	3289876.93	3289877.02	3289877.11	0.0488	0.0418	
Jupiter	4295-07-10 13:55 G	3289966.92	3289967.08	3289967.24	0.0489	0.0220	
Saturn	4295-08-28 07:26 G	3290015.70	3290015.81	3290015.93	0.0281	0.0167	
Saturn	4295-11-24 20:09 G	3290104.21	3290104.34	3290104.48	0.0282	0.0050	
Saturn	4296-02-21 08:52 G	3290192.74	3290192.87	3290193.00	0.0283	0.0069	
Saturn	4296-05-19 21:07 G	3290281.28	3290281.38	3290281.49	0.0283	0.0186	
Jupiter	4301-03-16 02:38 G	3292041.49	3292041.61	3292041.74	0.0539	0.0153	
Jupiter	4301-06-13 12:00 G	3292130.94	3292131.00	3292131.06	0.0538	0.0473	
Earth	4301-12-06 09:50 G	3292306.81	3292306.91	3292307.01	0.2681	0.1180	
Moon	4301-12-06 10:19 G	3292306.83	3292306.93	3292307.04	0.2680	0.1022	*
Mars	4302-05-31 17:02 G	3292483.10	3292483.21	3292483.32	0.1856	0.0730	
Mars	4303-06-26 08:52 G	3292873.74	3292873.87	3292874.00	0.1690	0.1081	
Venus	4305-07-13 23:31 G	3293622.46	3293622.48	3293622.49	0.3678	0.3627	
Jupiter	4307-04-29 12:43 G	3294276.86	3294277.03	3294277.21	0.0488	0.0057	
Saturn	4309-06-24 11:02 G	3295063.84	3295063.96	3295064.08	0.0279	0.0196	
Saturn	4309-09-21 06:28 G	3295152.60	3295152.77	3295152.94	0.0279	0.0055	
Saturn	4309-12-19 02:09 G	3295241.43	3295241.59	3295241.76	0.0278	0.0089	
Saturn	4310-03-17 22:04 G	3295330.33	3295330.42	3295330.52	0.0277	0.0233	
Venus	4311-01-27 16:48 G	3295646.11	3295646.20	3295646.28	0.3678	0.2213	
Moon	4311-06-05 01:40 G	3295774.43	3295774.57	3295774.71	0.2655	0.0870	
Earth	4311-06-05 02:52 G	3295774.47	3295774.62	3295774.76	0.2651	0.0819	*
Mars	4311-10-22 01:26 G	3295913.49	3295913.56	3295913.63	0.1863	0.1440	
Venus	4312-08-12 06:57 G	3296208.65	3296208.79	3296208.92	0.3691	0.0988	
Mars	4312-11-15 09:21 G	3296303.73	3296303.89	3296304.05	0.1683	0.0230	
Jupiter	4313-01-02 05:31 G	3296351.63	3296351.73	3296351.84	0.0540	0.0318	
Jupiter	4313-04-01 15:07 G	3296441.03	3296441.13	3296441.24	0.0539	0.0319	

Mars 4313-09-26 14:52 G 3296619.04 3296619.12 3296619.19 0.1836 0.1340

Earth 4314-12-09 03:35 G 3297057.54 3297057.65 3297057.76 0.2683 0.0243

Moon 4314-12-09 04:04 G 3297057.56 3297057.67 3297057.78 0.2677 0.0241 *

Venus 4316-08-12 09:35 G 3297669.80 3297669.90 3297670.01 0.3679 0.0840

Venus 4318-02-26 10:33 G 3298232.82 3298232.94 3298233.06 0.3690 0.1944

Jupiter 4319-02-15 12:14 G 3298586.84 3298587.01 3298587.18 0.0488 0.0098

Venus 4322-02-26 02:38 G 3299693.50 3299693.61 3299693.71 0.3680 0.0531

Mars 4322-04-07 10:04 G 3299733.77 3299733.92 3299734.07 0.1677 0.0599

Mars 4323-02-16 23:45 G 3300049.39 3300049.49 3300049.60 0.1843 0.0701

Moon 4324-06-07 08:38 G 3300525.75 3300525.86 3300525.97 0.2655 0.1836

Earth 4324-06-07 08:52 G 3300525.77 3300525.87 3300525.98 0.2649 0.1973 *

Jupiter 4324-10-21 09:07 G 3300661.82 3300661.88 3300661.94 0.0541 0.0471

Saturn 4325-01-15 09:07 G 3300747.79 3300747.88 3300747.98 0.0280 0.0204

Jupiter 4325-01-18 18:57 G 3300751.17 3300751.29 3300751.42 0.0540 0.0174

Saturn 4325-04-13 21:50 G 3300836.28 3300836.41 3300836.54 0.0281 0.0087

Saturn 4325-07-11 10:19 G 3300924.80 3300924.93 3300925.07 0.0281 0.0032

Saturn 4325-10-07 22:48 G 3301013.34 3301013.45 3301013.57 0.0282 0.0146

Saturn 4326-01-04 11:02 G 3301101.92 3301101.96 3301102.02 0.0283 0.0261

Venus 4327-09-11 19:11 G 3301717.21 3301717.30 3301717.39 0.3681 0.1823

Moon 4327-12-11 21:21 G 3301808.30 3301808.39 3301808.47 0.2678 0.1646

Earth 4327-12-11 21:35 G 3301808.31 3301808.40 3301808.48 0.2684 0.1644 *

Uranus 4328-12-31 22:19 G 3302194.41 3302194.43 3302194.46 0.0144 0.0142

Uranus 4329-03-30 05:45 G 3302282.65 3302282.74 3302282.87 0.0144 0.0114

Uranus 4329-06-26 13:40 G 3302370.93 3302371.07 3302371.23 0.0144 0.0085

Uranus 4329-09-22 21:21 G 3302459.23 3302459.39 3302459.57 0.0144 0.0056

Uranus 4329-12-20 05:16 G 3302547.54 3302547.72 3302547.90 0.0144 0.0027

Uranus 4330-03-18 12:57 G 3302635.86 3302636.04 3302636.23 0.0143 0.0005

Uranus 4330-06-14 20:52 G 3302724.19 3302724.37 3302724.56 0.0143 0.0032

Uranus 4330-09-11 04:33 G 3302812.53 3302812.69 3302812.87 0.0143 0.0062

Jupiter 4330-12-04 11:31 G 3302896.83 3302896.98 3302897.13 0.0488 0.0255

Uranus 4330-12-08 12:28 G 3302900.88 3302901.02 3302901.17 0.0143 0.0091

Jupiter 4331-03-04 13:26 G 3302986.96 3302987.06 3302987.17 0.0489 0.0390

Uranus 4331-03-06 20:38 G 3302989.26 3302989.36 3302989.46 0.0143 0.0120

Mars 4331-08-28 11:02 G 3303163.88 3303163.96 3303164.05 0.1671 0.1395

Mars 4332-07-09 08:24 G 3303479.74 3303479.85 3303479.97 0.1850 0.0056

Venus 4333-03-27 11:45 G 3303740.94 3303740.99 3303741.05 0.3682 0.3103

Earth 4334-12-04 20:38 G 3304358.31 3304358.36 3304358.41 0.2680 0.2310

Moon 4334-12-04 21:21 G 3304358.32 3304358.39 3304358.45 0.2683 0.2173 *

Jupiter 4336-11-06 22:48 G 3305061.32 3305061.45 3305061.58 0.0540 0.0023

Saturn 4338-11-11 08:09 G 3305795.77 3305795.84 3305795.90 0.0280 0.0257

Saturn 4339-02-08 03:21 G 3305884.48 3305884.64 3305884.80 0.0279 0.0117

Saturn 4339-05-07 22:48 G 3305973.28 3305973.45 3305973.63 0.0278 0.0027

Saturn 4339-08-04 18:43 G 3306062.15 3306062.28 3306062.42 0.0278 0.0170

Mars 4341-11-29 17:02 G 3306910.10 3306910.21 3306910.32 0.1857 0.0663

Jupiter 4342-09-22 11:16 G 3307206.88 3307206.97 3307207.06 0.0488 0.0406

Jupiter 4342-12-21 12:43 G 3307296.87 3307297.03 3307297.19 0.0488 0.0231

Mars 4342-12-25 09:35 G 3307300.78 3307300.90 3307301.02 0.1689 0.1177

Neptune 4343-10-31 00:14 G 3307610.50 3307610.51 3307610.55 0.0089 0.0088

Neptune 4344-01-27 01:55 G 3307698.53 3307698.58 3307698.65 0.0089 0.0080

Neptune 4344-04-24 03:35 G 3307786.58 3307786.65 3307786.74 0.0089 0.0073

Neptune 4344-07-21 05:02 G 3307874.63 3307874.71 3307874.82 0.0089 0.0066

Neptune 4344-10-17 06:43 G 3307962.68 3307962.78 3307962.90 0.0089 0.0058

Neptune 4345-01-13 08:24 G 3308050.74 3308050.85 3308050.97 0.0089 0.0051

Neptune 4345-04-11 10:04 G 3308138.80 3308138.92 3308139.04 0.0089 0.0043

Neptune 4345-07-08 11:31 G 3308226.86 3308226.98 3308227.12 0.0089 0.0036

Neptune 4345-10-04 13:11 G 3308314.92 3308315.05 3308315.19 0.0089 0.0029

Neptune 4345-12-31 14:52 G 3308402.98 3308403.12 3308403.26 0.0089 0.0021

Neptune 4346-03-29 16:19 G 3308491.05 3308491.18 3308491.32 0.0089 0.0014

Neptune 4346-06-25 18:00 G 3308579.11 3308579.25 3308579.39 0.0089 0.0007

Neptune 4346-09-21 19:26 G 3308667.17 3308667.31 3308667.45 0.0089 0.0002

Neptune 4346-12-18 21:07 G 3308755.24 3308755.38 3308755.52 0.0089 0.0008

Neptune 4347-03-16 22:33 G 3308843.31 3308843.44 3308843.58 0.0089 0.0015

Neptune 4347-06-13 00:00 G 3308931.37 3308931.50 3308931.64 0.0089 0.0023

Neptune 4347-09-09 01:40 G 3309019.44 3309019.57 3309019.70 0.0089 0.0029

Neptune 4347-12-06 03:07 G 3309107.51 3309107.63 3309107.76 0.0089 0.0037

Earth 4347-12-07 14:38 G 3309109.00 3309109.11 3309109.21 0.2681 0.0882

Moon 4347-12-07 15:07 G 3309109.03 3309109.13 3309109.24 0.2678 0.0849 *

Neptune 4348-03-03 04:33 G 3309195.58 3309195.69 3309195.82 0.0089 0.0044

Neptune 4348-05-30 06:14 G 3309283.65 3309283.76 3309283.87 0.0089 0.0051

Jupiter 4348-08-26 01:55 G 3309371.45 3309371.58 3309371.71 0.0539 0.0139

Neptune 4348-08-26 07:26 G 3309371.72 3309371.81 3309371.93 0.0089 0.0058

Neptune 4348-11-22 08:52 G 3309459.79 3309459.87 3309459.98 0.0089 0.0066

Jupiter 4348-11-23 11:02 G 3309460.91 3309460.96 3309461.01 0.0538 0.0486

Neptune 4349-02-18 10:33 G 3309547.87 3309547.94 3309548.03 0.0089 0.0072

Neptune 4349-05-17 12:00 G 3309635.95 3309636.00 3309636.07 0.0089 0.0079

Neptune 4349-08-13 13:26 G 3309724.04 3309724.06 3309724.11 0.0089 0.0087

Mars 4351-04-22 01:26 G 3310340.48 3310340.56 3310340.64 0.1863 0.1367

Mars 4352-05-16 09:50 G 3310730.75 3310730.91 3310731.07 0.1683 0.0315

Mars 4353-03-27 14:52 G 3311046.05 3311046.12 3311046.19 0.1836 0.1412

Saturn 4354-06-04 10:04 G 3311479.86 3311479.92 3311479.99 0.0280 0.0245

Saturn 4354-08-31 23:02 G 3311568.33 3311568.46 3311568.58 0.0281 0.0127

Jupiter 4354-10-09 12:00 G 3311606.82 3311607.00 3311607.17 0.0488 0.0073

Saturn 4354-11-28 11:45 G 3311656.85 3311656.99 3311657.13 0.0282 0.0012

Saturn 4355-02-25 00:00 G 3311745.38 3311745.50 3311745.63 0.0282 0.0108

Saturn 4355-05-24 12:28 G 3311833.94 3311834.02 3311834.10 0.0283 0.0222

Moon 4357-06-05 08:24 G 3312576.70 3312576.85 3312577.00 0.2656 0.0462

Earth 4357-06-05 09:21 G 3312576.73 3312576.89 3312577.04 0.2650 0.0281 *

Jupiter 4360-06-14 04:48 G 3313681.60 3313681.70 3313681.81 0.0540 0.0302

Jupiter 4360-09-11 14:24 G 3313771.00 3313771.10 3313771.21 0.0539 0.0333

Earth 4360-12-09 08:24 G 3313859.75 3313859.85 3313859.96 0.2683 0.0538

Moon 4360-12-09 08:52 G 3313859.76 3313859.87 3313859.97 0.2677 0.0641 *

Mars 4361-10-06 10:33 G 3314160.79 3314160.94 3314161.10 0.1677 0.0512

Venus 4362-02-17 21:21 G 3314295.34 3314295.39 3314295.45 0.3678 0.3162

Mars 4362-08-17 23:45 G 3314476.39 3314476.49 3314476.60 0.1842 0.0763

Venus 4363-09-03 04:04 G 3314857.59 3314857.67 3314857.76 0.3692 0.2921

Jupiter 4366-07-28 11:02 G 3315916.79 3315916.96 3315917.14 0.0488 0.0086

Venus 4367-09-03 14:24 G 3316319.01 3316319.10 3316319.20 0.3679 0.1771

Saturn 4368-06-27 03:35 G 3316616.51 3316616.65 3316616.79 0.0279 0.0155

Saturn 4368-09-23 23:02 G 3316705.29 3316705.46 3316705.64 0.0279 0.0015

Saturn 4368-12-21 18:57 G 3316794.14 3316794.29 3316794.45 0.0278 0.0132

Venus 4369-03-19 07:26 G 3316881.67 3316881.81 3316881.95 0.3691 0.0113

Saturn 4369-03-20 15:07 G 3316883.12 3316883.13 3316883.14 0.0277 0.0277

Earth 4370-06-08 15:35 G 3317328.10 3317328.15 3317328.19 0.2648 0.2527

Moon 4370-06-08 15:21 G 3317328.12 3317328.14 3317328.16 0.2655 0.2621 *

Mars 4371-02-26 11:45 G 3317590.89 3317590.99 3317591.09 0.1671 0.1312

Uranus 4372-01-06 06:28 G 3317904.76 3317904.77 3317904.79 0.0134 0.0133

Mars 4372-01-08 08:24 G 3317906.74 3317906.85 3317906.97 0.1850 0.0116

Jupiter 4372-04-02 07:26 G 3317991.75 3317991.81 3317991.88 0.0541 0.0471

Uranus 4372-04-03 09:50 G 3317992.85 3317992.91 3317992.98 0.0134 0.0116

Uranus 4372-06-30 12:57 G 3318080.96 3318081.04 3318081.15 0.0134 0.0099

Jupiter 4372-06-30 17:31 G 3318081.11 3318081.23 3318081.36 0.0540 0.0174 *

Uranus 4372-09-26 16:33 G 3318169.08 3318169.19 3318169.30 0.0134 0.0080

Uranus 4372-12-23 19:55 G 3318257.21 3318257.33 3318257.45 0.0135 0.0063

Venus 4373-03-19 07:26 G 3318342.71 3318342.81 3318342.92 0.3680 0.0402

Uranus 4373-03-21 23:02 G 3318345.34 3318345.46 3318345.59 0.0135 0.0045

Uranus 4373-06-18 02:24 G 3318433.47 3318433.60 3318433.73 0.0135 0.0028

Uranus 4373-09-14 05:31 G 3318521.60 3318521.73 3318521.87 0.0135 0.0011

Uranus 4373-12-11 08:52 G 3318609.73 3318609.87 3318610.00 0.0135 0.0007

Moon 4373-12-12 01:55 G 3318610.50 3318610.58 3318610.66 0.2678 0.1827

Earth 4373-12-12 02:24 G 3318610.52 3318610.60 3318610.67 0.2685 0.1932 *

Uranus 4374-03-09 12:00 G 3318697.87 3318698.00 3318698.13 0.0135 0.0024

Uranus 4374-06-05 15:07 G 3318786.01 3318786.13 3318786.26 0.0135 0.0042

Uranus 4374-09-01 18:28 G 3318874.15 3318874.27 3318874.39 0.0135 0.0059

Venus 4374-10-03 11:31 G 3318905.89 3318905.98 3318906.07 0.3690 0.2883

Uranus 4374-11-28 21:35 G 3318962.29 3318962.40 3318962.51 0.0135 0.0076

Uranus 4375-02-25 00:43 G 3319050.44 3319050.53 3319050.63 0.0135 0.0094

Uranus 4375-05-24 03:35 G 3319138.59 3319138.65 3319138.74 0.0135 0.0112

Uranus 4375-08-20 06:57 G 3319226.76 3319226.79 3319226.84 0.0135 0.0128

Jupiter 4378-05-16 10:48 G 3320226.80 3320226.95 3320227.10 0.0487 0.0238

Jupiter 4378-08-14 12:43 G 3320316.93 3320317.03 3320317.13 0.0488 0.0406

Venus 4378-10-03 00:14 G 3320366.41 3320366.51 3320366.62 0.3680 0.0946

Earth 4380-12-05 01:26 G 3321160.49 3321160.56 3321160.63 0.2680 0.2012

Moon 4380-12-05 02:09 G 3321160.52 3321160.59 3321160.67 0.2682 0.1944 *

Mars 4381-05-30 17:02 G 3321337.10 3321337.21 3321337.32 0.1856 0.0597

Mars 4382-06-25 10:19 G 3321727.83 3321727.93 3321728.04 0.1690 0.1274

Saturn 4384-01-19 00:43 G 3322300.42 3322300.53 3322300.65 0.0280 0.0163

Saturn 4384-04-16 13:26 G 3322388.93 3322389.06 3322389.20 0.0281 0.0047

Venus 4384-04-17 17:02 G 3322390.12 3322390.21 3322390.29 0.3681 0.2242

Jupiter 4384-04-18 21:21 G 3322391.26 3322391.39 3322391.52 0.0540 0.0025

Saturn 4384-07-14 01:55 G 3322477.45 3322477.58 3322477.72 0.0281 0.0070

Saturn 4384-10-10 14:24 G 3322566.00 3322566.10 3322566.20 0.0282 0.0185

Venus 4389-11-01 09:35 G 3324413.87 3324413.90 3324413.92 0.3682 0.3510

Jupiter 4390-03-04 10:04 G 3324536.82 3324536.92 3324537.02 0.0487 0.0394

Jupiter 4390-06-02 11:31 G 3324626.83 3324626.98 3324627.13 0.0488 0.0242

Moon 4390-06-03 08:24 G 3324627.84 3324627.85 3324627.86 0.2654 0.2637

Earth 4390-06-03 09:50 G 3324627.86 3324627.91 3324627.96 0.2652 0.2466 *

Mars 4390-10-21 01:26 G 3324767.48 3324767.56 3324767.64 0.1863 0.1307

Mars 4391-11-15 10:33 G 3325157.78 3325157.94 3325158.10 0.1683 0.0412

Mars 4392-09-25 14:52 G 3325473.05 3325473.12 3325473.19 0.1835 0.1468

Earth 4393-12-07 19:26 G 3325911.20 3325911.31 3325911.42 0.2682 0.0587

Moon	4393-12-07 20:09 G	3325911.23	3325911.34	3325911.44	0.2677	0.0462	*
Jupiter	4396-02-06 00:57 G	3326701.42	3326701.54	3326701.67	0.0540	0.0126	
Jupiter	4396-05-05 10:19 G	3326790.88	3326790.93	3326790.97	0.0539	0.0501	
Saturn	4397-11-14 00:28 G	3327348.42	3327348.52	3327348.64	0.0280	0.0215	
Saturn	4398-02-10 19:55 G	3327437.17	3327437.33	3327437.50	0.0279	0.0074	
Saturn	4398-05-10 15:35 G	3327525.99	3327526.15	3327526.32	0.0278	0.0070	
Saturn	4398-08-07 11:31 G	3327614.88	3327614.98	3327615.10	0.0278	0.0214	
Mars	4401-04-06 11:16 G	3328587.81	3328587.97	3328588.13	0.1677	0.0425	
Mars	4402-02-15 23:45 G	3328903.39	3328903.49	3328903.60	0.1843	0.0827	
Jupiter	4402-03-21 10:48 G	3328936.78	3328936.95	3328937.13	0.0488	0.0085	
Moon	4403-06-06 14:52 G	3329378.96	3329379.12	3329379.27	0.2656	0.0209	
Earth	4403-06-06 15:50 G	3329379.00	3329379.16	3329379.31	0.2650	0.0274	*
Earth	4406-12-10 13:26 G	3330661.95	3330662.06	3330662.16	0.2683	0.0834	
Moon	4406-12-10 13:26 G	3330661.96	3330662.06	3330662.17	0.2677	0.0795	*
Jupiter	4407-11-25 04:04 G	3331011.56	3331011.67	3331011.78	0.0540	0.0287	
Jupiter	4408-02-22 13:40 G	3331100.97	3331101.07	3331101.17	0.0539	0.0346	
Mars	4410-08-27 12:14 G	3332017.90	3332018.01	3332018.12	0.1672	0.1229	
Mars	4411-07-09 08:38 G	3332333.74	3332333.86	3332333.98	0.1849	0.0164	
Uranus	4413-01-21 05:31 G	3332895.68	3332895.73	3332895.79	0.0144	0.0136	
Uranus	4413-04-19 12:57 G	3332983.93	3332984.04	3332984.17	0.0144	0.0108	
Saturn	4413-06-07 01:40 G	3333032.48	3333032.57	3333032.67	0.0280	0.0205	
Uranus	4413-07-16 20:38 G	3333072.22	3333072.36	3333072.53	0.0144	0.0079	
Saturn	4413-09-03 14:38 G	3333120.98	3333121.11	3333121.24	0.0281	0.0087	
Uranus	4413-10-13 04:33 G	3333160.52	3333160.69	3333160.87	0.0144	0.0050	
Saturn	4413-12-01 03:07 G	3333209.49	3333209.63	3333209.77	0.0282	0.0030	
Jupiter	4414-01-07 10:04 G	3333246.75	3333246.92	3333247.10	0.0488	0.0073	
Uranus	4414-01-09 12:28 G	3333248.83	3333249.02	3333249.20	0.0143	0.0021	
Saturn	4414-02-27 15:35 G	3333298.03	3333298.15	3333298.27	0.0282	0.0145	
Uranus	4414-04-07 20:09 G	3333337.15	3333337.34	3333337.53	0.0143	0.0009	
Saturn	4414-05-27 03:50 G	3333386.61	3333386.66	3333386.71	0.0283	0.0260	

Uranus 4414-07-05 03:50 G 3333425.49 3333425.66 3333425.85 0.0143 0.0038

Uranus 4414-10-01 11:45 G 3333513.83 3333513.99 3333514.16 0.0143 0.0067

Uranus 4414-12-28 19:26 G 3333602.19 3333602.31 3333602.46 0.0143 0.0097

Uranus 4415-03-27 03:35 G 3333690.57 3333690.65 3333690.74 0.0143 0.0126

Venus 4418-09-24 19:11 G 3334968.23 3334968.30 3334968.38 0.3678 0.2708

Jupiter 4419-09-13 06:57 G 3335321.72 3335321.79 3335321.87 0.0540 0.0451

Jupiter 4419-12-11 17:02 G 3335411.09 3335411.21 3335411.33 0.0539 0.0190

Moon 4419-12-13 06:43 G 3335412.72 3335412.78 3335412.84 0.2678 0.2222

Earth 4419-12-13 07:11 G 3335412.74 3335412.80 3335412.86 0.2685 0.2219 *

Venus 4420-04-09 04:48 G 3335530.58 3335530.70 3335530.81 0.3692 0.2075

Mars 4420-11-28 17:02 G 3335764.10 3335764.21 3335764.32 0.1856 0.0532

Mars 4421-12-24 10:48 G 3336154.86 3336154.95 3336155.05 0.1690 0.1361

Venus 4424-04-09 12:28 G 3336991.91 3336992.02 3336992.12 0.3679 0.1324

Venus 4425-10-24 08:09 G 3337554.70 3337554.84 3337554.98 0.3691 0.0791

Jupiter 4425-10-26 09:35 G 3337556.75 3337556.90 3337557.06 0.0487 0.0227

Jupiter 4426-01-24 11:31 G 3337646.89 3337646.98 3337647.07 0.0488 0.0418

Neptune 4426-04-18 02:52 G 3337730.62 3337730.62 3337730.67 0.0088 0.0087

Neptune 4426-07-15 06:00 G 3337818.68 3337818.75 3337818.84 0.0088 0.0078

Neptune 4426-10-11 09:07 G 3337906.78 3337906.88 3337906.99 0.0088 0.0069

Earth 4426-12-06 06:14 G 3337962.68 3337962.76 3337962.85 0.2680 0.1715

Moon 4426-12-06 06:57 G 3337962.71 3337962.79 3337962.88 0.2681 0.1613 *

Neptune 4427-01-07 11:45 G 3337994.88 3337994.99 3337995.13 0.0088 0.0061

Saturn 4427-04-03 00:43 G 3338080.47 3338080.53 3338080.61 0.0280 0.0254

Neptune 4427-04-05 14:38 G 3338082.98 3338083.11 3338083.27 0.0088 0.0052

Saturn 4427-06-30 20:09 G 3338169.18 3338169.34 3338169.50 0.0279 0.0113

Neptune 4427-07-02 17:45 G 3338171.09 3338171.24 3338171.41 0.0088 0.0043

Saturn 4427-09-27 15:50 G 3338257.98 3338258.16 3338258.33 0.0279 0.0030

Neptune 4427-09-28 20:52 G 3338259.21 3338259.37 3338259.54 0.0088 0.0034

Saturn 4427-12-25 11:31 G 3338346.85 3338346.98 3338347.12 0.0278 0.0175

Neptune 4427-12-25 23:45 G 3338347.32 3338347.49 3338347.67 0.0088 0.0025

Neptune 4428-03-23 02:52 G 3338435.44 3338435.62 3338435.80 0.0088 0.0016

Neptune 4428-06-19 05:45 G 3338523.56 3338523.74 3338523.93 0.0088 0.0008

Neptune 4428-09-15 08:52 G 3338611.69 3338611.87 3338612.05 0.0088 0.0002

Pluto 4428-11-23 17:31 G 3338681.18 3338681.23 3338681.31 0.0071 0.0063

Neptune 4428-12-12 11:45 G 3338699.81 3338699.99 3338700.18 0.0088 0.0011

Pluto 4429-02-19 18:28 G 3338769.19 3338769.27 3338769.37 0.0071 0.0054

Neptune 4429-03-10 14:38 G 3338787.94 3338788.11 3338788.30 0.0088 0.0020

Pluto 4429-05-18 19:26 G 3338857.21 3338857.31 3338857.42 0.0071 0.0045

Neptune 4429-06-06 17:45 G 3338876.08 3338876.24 3338876.42 0.0088 0.0029

Pluto 4429-08-14 20:09 G 3338945.23 3338945.34 3338945.47 0.0071 0.0037

Neptune 4429-09-02 20:52 G 3338964.21 3338964.37 3338964.54 0.0088 0.0038

Venus 4429-10-24 05:16 G 3339015.61 3339015.72 3339015.83 0.3680 0.0077

Pluto 4429-11-10 21:07 G 3339033.26 3339033.38 3339033.51 0.0072 0.0028

Neptune 4429-11-29 23:45 G 3339052.35 3339052.49 3339052.66 0.0088 0.0047

Pluto 4430-02-06 21:50 G 3339121.28 3339121.41 3339121.55 0.0072 0.0019

Neptune 4430-02-26 02:52 G 3339140.49 3339140.62 3339140.77 0.0088 0.0056

Mars 4430-04-21 01:40 G 3339194.48 3339194.57 3339194.65 0.1863 0.1234

Pluto 4430-05-05 22:48 G 3339209.32 3339209.45 3339209.59 0.0072 0.0010

Neptune 4430-05-25 06:00 G 3339228.64 3339228.75 3339228.88 0.0088 0.0065

Pluto 4430-08-01 23:45 G 3339297.35 3339297.49 3339297.63 0.0072 0.0000

Neptune 4430-08-21 08:52 G 3339316.79 3339316.87 3339316.98 0.0088 0.0075

Pluto 4430-10-29 00:28 G 3339385.39 3339385.52 3339385.66 0.0072 0.0009

Neptune 4430-11-17 12:00 G 3339404.96 3339405.00 3339405.07 0.0088 0.0084

Pluto 4431-01-25 01:26 G 3339473.43 3339473.56 3339473.70 0.0072 0.0018

Pluto 4431-04-23 02:24 G 3339561.47 3339561.60 3339561.73 0.0072 0.0028

Mars 4431-05-16 11:16 G 3339584.82 3339584.97 3339585.13 0.1684 0.0508

Pluto 4431-07-20 03:07 G 3339649.52 3339649.63 3339649.76 0.0072 0.0037

Jupiter 4431-09-29 19:55 G 3339721.20 3339721.33 3339721.46 0.0540 0.0028

Pluto 4431-10-16 04:04 G 3339737.57 3339737.67 3339737.78 0.0073 0.0047

Pluto 4432-01-12 04:48 G 3339825.62 3339825.70 3339825.80 0.0073 0.0056

Mars	4432-03-26 14:52 G	3339900.06	3339900.12	3339900.18	0.1835	0.1534
Pluto	4432-04-09 05:45 G	3339913.69	3339913.74	3339913.81	0.0073	0.0066
Venus	4435-05-09 22:04 G	3341039.32	3341039.42	3341039.52	0.3680	0.1368
Moon	4436-06-03 14:52 G	3341430.04	3341430.12	3341430.21	0.2656	0.2159
Earth	4436-06-03 16:19 G	3341430.08	3341430.18	3341430.28	0.2652	0.1933 *
Jupiter	4437-08-14 09:21 G	3341866.78	3341866.89	3341867.00	0.0487	0.0377
Jupiter	4437-11-12 10:48 G	3341956.80	3341956.95	3341957.10	0.0488	0.0259
Earth	4439-12-09 00:14 G	3342713.40	3342713.51	3342713.62	0.2682	0.0291
Moon	4439-12-09 00:57 G	3342713.43	3342713.54	3342713.65	0.2678	0.0248 *
Mars	4440-10-05 11:45 G	3343014.83	3343014.99	3343015.16	0.1677	0.0336
Venus	4440-11-22 14:38 G	3343063.04	3343063.11	3343063.19	0.3681	0.2657
Mars	4441-08-16 23:45 G	3343330.39	3343330.49	3343330.60	0.1842	0.0893
Saturn	4442-10-25 03:50 G	3343764.60	3343764.66	3343764.74	0.0279	0.0237
Saturn	4443-01-21 16:48 G	3343853.07	3343853.20	3343853.32	0.0280	0.0120
Saturn	4443-04-20 05:16 G	3343941.58	3343941.72	3343941.86	0.0281	0.0007
Saturn	4443-07-17 17:45 G	3344030.12	3344030.24	3344030.37	0.0281	0.0111
Jupiter	4443-07-18 23:31 G	3344031.35	3344031.48	3344031.61	0.0540	0.0126
Saturn	4443-10-14 06:00 G	3344118.67	3344118.75	3344118.83	0.0282	0.0226
Jupiter	4443-10-16 08:38 G	3344120.82	3344120.86	3344120.91	0.0539	0.0503
Moon	4449-06-06 21:35 G	3346181.25	3346181.40	3346181.54	0.2656	0.0698
Earth	4449-06-06 22:19 G	3346181.28	3346181.43	3346181.58	0.2650	0.0819 *
Jupiter	4449-08-31 09:35 G	3346266.73	3346266.90	3346267.07	0.0488	0.0096
Mars	4450-02-25 12:57 G	3346444.92	3346445.04	3346445.16	0.1672	0.1136
Mars	4451-01-07 08:38 G	3346760.74	3346760.86	3346760.97	0.1849	0.0233
Moon	4452-12-10 18:14 G	3347464.16	3347464.26	3347464.36	0.2676	0.1164
Earth	4452-12-10 18:14 G	3347464.16	3347464.26	3347464.36	0.2683	0.1119 *
Jupiter	4455-05-07 03:07 G	3348341.51	3348341.63	3348341.74	0.0540	0.0278
Jupiter	4455-08-04 12:43 G	3348430.93	3348431.03	3348431.13	0.0539	0.0358
Uranus	4456-01-26 13:40 G	3348606.04	3348606.07	3348606.10	0.0134	0.0130
Uranus	4456-04-23 16:48 G	3348694.13	3348694.20	3348694.28	0.0134	0.0112

Uranus 4456-07-20 20:09 G 3348782.25 3348782.34 3348782.44 0.0134 0.0095

Uranus 4456-10-16 23:16 G 3348870.37 3348870.47 3348870.59 0.0135 0.0078

Saturn 4456-11-16 17:16 G 3348901.09 3348901.22 3348901.36 0.0280 0.0172

Uranus 4457-01-13 02:38 G 3348958.50 3348958.61 3348958.74 0.0135 0.0060

Saturn 4457-02-13 12:57 G 3348989.86 3348990.04 3348990.21 0.0279 0.0030

Uranus 4457-04-11 06:00 G 3349046.63 3349046.75 3349046.88 0.0135 0.0042

Saturn 4457-05-13 08:38 G 3349078.70 3349078.86 3349079.02 0.0278 0.0114

Uranus 4457-07-08 09:21 G 3349134.76 3349134.89 3349135.02 0.0135 0.0025

Saturn 4457-08-10 04:33 G 3349167.64 3349167.69 3349167.76 0.0278 0.0259

Uranus 4457-10-04 12:28 G 3349222.89 3349223.02 3349223.16 0.0135 0.0008

Uranus 4457-12-31 15:50 G 3349311.03 3349311.16 3349311.29 0.0135 0.0010

Uranus 4458-03-29 18:57 G 3349399.16 3349399.29 3349399.43 0.0135 0.0028

Uranus 4458-06-25 22:19 G 3349487.30 3349487.43 3349487.55 0.0135 0.0045

Uranus 4458-09-22 01:26 G 3349575.44 3349575.56 3349575.68 0.0135 0.0062

Uranus 4458-12-19 04:19 G 3349663.59 3349663.68 3349663.80 0.0135 0.0081

Uranus 4459-03-17 07:40 G 3349751.73 3349751.82 3349751.92 0.0135 0.0097

Uranus 4459-06-13 10:48 G 3349839.89 3349839.95 3349840.03 0.0135 0.0114

Uranus 4459-09-09 13:55 G 3349928.06 3349928.08 3349928.12 0.0136 0.0132

Mars 4460-05-29 17:16 G 3350191.10 3350191.22 3350191.33 0.1856 0.0458

Jupiter 4461-06-19 09:07 G 3350576.70 3350576.88 3350577.05 0.0488 0.0062

Mars 4461-06-24 11:45 G 3350581.91 3350581.99 3350582.07 0.1690 0.1462

Moon 4465-12-13 11:31 G 3352214.93 3352214.98 3352215.03 0.2679 0.2383

Earth 4465-12-13 12:00 G 3352214.96 3352215.00 3352215.03 0.2685 0.2507 *

Jupiter 4467-02-23 06:14 G 3352651.68 3352651.76 3352651.83 0.0540 0.0440

Jupiter 4467-05-23 16:04 G 3352741.05 3352741.17 3352741.29 0.0539 0.0202

Venus 4469-10-16 00:00 G 3353617.49 3353617.50 3353617.51 0.3678 0.3663

Mars 4469-10-20 01:40 G 3353621.48 3353621.57 3353621.66 0.1863 0.1168

Mars 4470-11-14 11:45 G 3354011.84 3354011.99 3354012.14 0.1684 0.0586

Mars 4471-09-25 14:52 G 3354327.07 3354327.12 3354327.18 0.1835 0.1601

Saturn 4472-06-09 17:45 G 3354585.12 3354585.24 3354585.35 0.0280 0.0163

Saturn	4472-09-06 06:14 G	3354673.63	3354673.76	3354673.90	0.0281	0.0047
Saturn	4472-12-03 18:57 G	3354762.15	3354762.29	3354762.42	0.0282	0.0071
Earth	4472-12-06 11:16 G	3354764.87	3354764.97	3354765.06	0.2680	0.1415
Moon	4472-12-06 12:00 G	3354764.90	3354765.00	3354765.09	0.2679	0.1285 *
Saturn	4473-03-02 07:11 G	3354850.70	3354850.80	3354850.90	0.0282	0.0186
Jupiter	4473-04-07 08:24 G	3354886.70	3354886.85	3354887.01	0.0488	0.0216
Jupiter	4473-07-06 10:19 G	3354976.85	3354976.93	3354977.02	0.0489	0.0431
Venus	4475-05-01 17:16 G	3355641.13	3355641.22	3355641.30	0.3678	0.2251
Venus	4476-11-14 05:16 G	3356203.59	3356203.72	3356203.85	0.3691	0.1197
Jupiter	4479-03-11 19:11 G	3357051.17	3357051.30	3357051.43	0.0539	0.0045
Mars	4480-04-05 12:28 G	3357441.86	3357442.02	3357442.18	0.1678	0.0242
Venus	4480-11-14 10:19 G	3357664.82	3357664.93	3357665.03	0.3679	0.0874
Mars	4481-02-15 00:00 G	3357757.40	3357757.50	3357757.59	0.1842	0.0960
Venus	4482-05-31 09:07 G	3358227.75	3358227.88	3358228.00	0.3690	0.1714
Moon	4482-06-04 21:21 G	3358232.27	3358232.39	3358232.52	0.2656	0.1495
Earth	4482-06-04 22:48 G	3358232.32	3358232.45	3358232.58	0.2652	0.1402 *
Jupiter	4485-01-24 08:09 G	3359196.73	3359196.84	3359196.95	0.0487	0.0366
Jupiter	4485-04-24 09:35 G	3359286.75	3359286.90	3359287.04	0.0488	0.0270
Earth	4485-12-09 05:02 G	3359515.60	3359515.71	3359515.83	0.2682	0.0102
Moon	4485-12-09 05:45 G	3359515.62	3359515.74	3359515.85	0.2678	0.0143 *
Saturn	4486-04-05 17:31 G	3359633.12	3359633.23	3359633.34	0.0280	0.0211
Venus	4486-05-31 03:07 G	3359688.52	3359688.63	3359688.74	0.3680	0.0479
Saturn	4486-07-03 12:57 G	3359721.87	3359722.04	3359722.21	0.0279	0.0070
Saturn	4486-09-30 08:38 G	3359810.69	3359810.86	3359811.03	0.0279	0.0074
Saturn	4486-12-28 04:33 G	3359899.59	3359899.69	3359899.80	0.0278	0.0219
Mars	4489-08-26 13:40 G	3360871.94	3360872.07	3360872.19	0.1672	0.1047
Mars	4490-07-08 08:38 G	3361187.74	3361187.86	3361187.97	0.1849	0.0293
Jupiter	4490-12-28 21:50 G	3361361.28	3361361.41	3361361.54	0.0540	0.0126
Jupiter	4491-03-28 07:11 G	3361450.76	3361450.80	3361450.85	0.0539	0.0502
Venus	4491-12-14 19:55 G	3361712.23	3361712.33	3361712.42	0.3681	0.1789

Moon 4495-06-08 04:19 G 3362983.55 3362983.68 3362983.81 0.2656 0.1301

Earth 4495-06-08 04:48 G 3362983.56 3362983.70 3362983.83 0.2650 0.1361 *

Jupiter 4497-02-10 08:52 G 3363596.70 3363596.87 3363597.04 0.0488 0.0112

Uranus 4497-02-10 12:43 G 3363596.96 3363597.03 3363597.12 0.0144 0.0129 *

Uranus 4497-05-09 20:09 G 3363685.22 3363685.34 3363685.48 0.0144 0.0101

Venus 4497-06-29 12:28 G 3363735.96 3363736.02 3363736.08 0.3682 0.3065

Uranus 4497-08-06 04:04 G 3363773.51 3363773.67 3363773.83 0.0144 0.0072

Uranus 4497-11-02 11:45 G 3363861.82 3363861.99 3363862.17 0.0143 0.0043

Uranus 4498-01-29 19:40 G 3363950.13 3363950.32 3363950.50 0.0143 0.0014

Uranus 4498-04-28 03:21 G 3364038.46 3364038.64 3364038.83 0.0143 0.0016

Uranus 4498-07-25 11:02 G 3364126.79 3364126.96 3364127.15 0.0143 0.0045

Uranus 4498-10-21 18:57 G 3364215.13 3364215.29 3364215.46 0.0143 0.0074

Moon 4498-12-11 23:02 G 3364266.36 3364266.46 3364266.55 0.2676 0.1358

Earth 4498-12-11 23:02 G 3364266.37 3364266.46 3364266.55 0.2684 0.1412 *

Uranus 4499-01-18 02:52 G 3364303.50 3364303.62 3364303.75 0.0143 0.0104

Uranus 4499-04-16 10:33 G 3364391.89 3364391.94 3364392.02 0.0143 0.0133

Mars 4499-11-28 17:16 G 3364618.10 3364618.22 3364618.33 0.1856 0.0402

Mars 4500-12-24 12:14 G 3365008.95 3365009.01 3365009.08 0.1690 0.1552

Saturn 4501-10-28 20:09 G 3365317.24 3365317.34 3365317.44 0.0279 0.0192

Saturn 4502-01-25 08:52 G 3365405.74 3365405.87 3365406.00 0.0280 0.0076

Saturn 4502-04-23 21:21 G 3365494.26 3365494.39 3365494.53 0.0281 0.0040

Saturn 4502-07-21 09:50 G 3365582.80 3365582.91 3365583.02 0.0281 0.0155

Saturn 4502-10-17 22:04 G 3365671.38 3365671.42 3365671.46 0.0282 0.0269

Jupiter 4502-10-18 01:11 G 3365671.44 3365671.55 3365671.67 0.0541 0.0281 *

Jupiter 4503-01-15 11:02 G 3365760.86 3365760.96 3365761.06 0.0540 0.0356

Earth 4505-12-05 22:04 G 3366816.39 3366816.42 3366816.45 0.2679 0.2550

Moon 4505-12-05 22:33 G 3366816.40 3366816.44 3366816.49 0.2683 0.2420 *

Neptune 4508-07-28 00:14 G 3367781.47 3367781.51 3367781.57 0.0089 0.0084

Neptune 4508-10-24 01:55 G 3367869.52 3367869.58 3367869.66 0.0089 0.0076

Jupiter 4508-11-30 07:40 G 3367906.65 3367906.82 3367907.00 0.0488 0.0051

Neptune 4509-01-20 03:35 G 3367957.57 3367957.65 3367957.74 0.0089 0.0069

Neptune 4509-04-18 05:02 G 3368045.62 3368045.71 3368045.82 0.0089 0.0062

Mars 4509-04-21 01:40 G 3368048.47 3368048.57 3368048.66 0.1863 0.1102

Neptune 4509-07-15 06:43 G 3368133.68 3368133.78 3368133.90 0.0089 0.0054

Neptune 4509-10-11 08:24 G 3368221.74 3368221.85 3368221.97 0.0089 0.0047

Neptune 4510-01-07 10:04 G 3368309.80 3368309.92 3368310.05 0.0089 0.0039

Neptune 4510-04-05 11:31 G 3368397.86 3368397.98 3368398.12 0.0089 0.0032

Mars 4510-05-16 12:43 G 3368438.88 3368439.03 3368439.18 0.1684 0.0690

Neptune 4510-07-02 13:11 G 3368485.92 3368486.05 3368486.19 0.0089 0.0025

Neptune 4510-09-28 14:52 G 3368573.98 3368574.12 3368574.26 0.0089 0.0017

Neptune 4510-12-25 16:19 G 3368662.04 3368662.18 3368662.32 0.0089 0.0010

Neptune 4511-03-23 18:00 G 3368750.11 3368750.25 3368750.39 0.0089 0.0003

Mars 4511-03-27 14:52 G 3368754.07 3368754.12 3368754.17 0.1835 0.1662

Neptune 4511-06-19 19:26 G 3368838.17 3368838.31 3368838.45 0.0089 0.0005

Neptune 4511-09-15 21:07 G 3368926.24 3368926.38 3368926.52 0.0089 0.0012

Neptune 4511-12-12 22:33 G 3369014.31 3369014.44 3369014.58 0.0089 0.0019

Neptune 4512-03-10 00:00 G 3369102.37 3369102.50 3369102.64 0.0089 0.0026

Neptune 4512-06-06 01:26 G 3369190.44 3369190.56 3369190.70 0.0089 0.0034

Neptune 4512-09-02 03:07 G 3369278.51 3369278.63 3369278.76 0.0089 0.0040

Neptune 4512-11-29 04:33 G 3369366.58 3369366.69 3369366.81 0.0089 0.0048

Neptune 4513-02-25 06:00 G 3369454.65 3369454.75 3369454.87 0.0089 0.0055

Neptune 4513-05-24 07:40 G 3369542.72 3369542.82 3369542.92 0.0089 0.0062

Neptune 4513-08-20 09:07 G 3369630.80 3369630.88 3369630.97 0.0089 0.0069

Neptune 4513-11-16 10:33 G 3369718.88 3369718.94 3369719.02 0.0089 0.0076

Neptune 4514-02-12 12:14 G 3369806.96 3369807.01 3369807.06 0.0089 0.0083

Pluto 4514-07-18 18:28 G 3369963.19 3369963.27 3369963.37 0.0072 0.0063

Jupiter 4514-08-06 04:48 G 3369981.63 3369981.70 3369981.78 0.0541 0.0434

Pluto 4514-10-14 20:24 G 3370051.24 3370051.35 3370051.50 0.0072 0.0050

Jupiter 4514-11-03 14:52 G 3370071.00 3370071.12 3370071.24 0.0540 0.0210

Pluto 4515-01-10 22:48 G 3370139.30 3370139.45 3370139.61 0.0072 0.0038

Pluto	4515-04-09 00:43 G	3370227.36	3370227.53	3370227.70	0.0072	0.0026
Pluto	4515-07-06 02:38 G	3370315.44	3370315.61	3370315.79	0.0072	0.0014
Saturn	4515-08-24 15:21 G	3370365.09	3370365.14	3370365.20	0.0280	0.0265
Pluto	4515-10-02 04:48 G	3370403.51	3370403.70	3370403.88	0.0072	0.0002
Saturn	4515-11-21 10:33 G	3370453.79	3370453.94	3370454.10	0.0280	0.0125
Pluto	4515-12-29 06:28 G	3370491.60	3370491.77	3370491.96	0.0072	0.0011
Saturn	4516-02-18 06:14 G	3370542.59	3370542.76	3370542.93	0.0279	0.0018
Pluto	4516-03-26 08:09 G	3370579.68	3370579.84	3370580.03	0.0072	0.0023
Saturn	4516-05-17 01:55 G	3370631.45	3370631.58	3370631.73	0.0278	0.0162
Pluto	4516-06-22 10:19 G	3370667.78	3370667.93	3370668.09	0.0072	0.0034
Pluto	4516-09-18 12:00 G	3370755.88	3370756.00	3370756.15	0.0071	0.0046
Pluto	4516-12-15 13:40 G	3370843.99	3370844.07	3370844.20	0.0071	0.0058
Pluto	4517-03-13 15:50 G	3370932.12	3370932.16	3370932.22	0.0071	0.0068
Mars	4518-09-11 09:50 G	3371478.89	3371478.91	3371478.93	0.1869	0.1823
Earth	4518-12-08 16:04 G	3371567.07	3371567.17	3371567.27	0.2680	0.1115
Moon	4518-12-08 16:48 G	3371567.10	3371567.20	3371567.30	0.2679	0.1044 *
Mars	4519-10-06 13:11 G	3371868.88	3371869.05	3371869.21	0.1678	0.0157
Mars	4520-08-16 23:45 G	3372184.40	3372184.49	3372184.59	0.1842	0.1023
Jupiter	4520-09-18 07:11 G	3372216.64	3372216.80	3372216.96	0.0487	0.0205
Jupiter	4520-12-17 09:07 G	3372306.80	3372306.88	3372306.95	0.0488	0.0440
Venus	4526-05-23 21:50 G	3374290.36	3374290.41	3374290.47	0.3678	0.3200
Jupiter	4526-08-22 18:14 G	3374381.13	3374381.26	3374381.39	0.0540	0.0053
Venus	4527-12-07 02:52 G	3374852.54	3374852.62	3374852.69	0.3692	0.3099
Moon	4528-06-06 03:50 G	3375034.52	3375034.66	3375034.80	0.2656	0.1115
Earth	4528-06-06 05:16 G	3375034.57	3375034.72	3375034.86	0.2652	0.0868 *
Mars	4529-02-25 13:55 G	3375298.95	3375299.08	3375299.22	0.1672	0.0969
Mars	4530-01-07 08:38 G	3375614.75	3375614.86	3375614.98	0.1849	0.0363
Saturn	4531-03-17 21:07 G	3376049.31	3376049.38	3376049.46	0.0280	0.0234
Saturn	4531-06-14 09:50 G	3376137.79	3376137.91	3376138.04	0.0280	0.0117
Saturn	4531-09-10 22:33 G	3376226.30	3376226.44	3376226.58	0.0281	0.0002

Venus 4531-12-07 15:07 G 3376314.03 3376314.13 3376314.22 0.3679 0.1798

Saturn 4531-12-08 11:02 G 3376314.83 3376314.96 3376315.08 0.0282 0.0115

Earth 4531-12-11 10:04 G 3376317.81 3376317.92 3376318.03 0.2682 0.0314

Moon 4531-12-11 10:19 G 3376317.82 3376317.93 3376318.04 0.2677 0.0362 *

Saturn 4532-03-05 23:16 G 3376403.39 3376403.47 3376403.55 0.0283 0.0229

Jupiter 4532-07-07 06:43 G 3376526.67 3376526.78 3376526.90 0.0487 0.0359

Jupiter 4532-10-05 08:09 G 3376616.69 3376616.84 3376616.98 0.0488 0.0279

Venus 4533-06-22 06:00 G 3376876.61 3376876.75 3376876.89 0.3691 0.0320

Venus 4537-06-22 08:09 G 3378337.73 3378337.84 3378337.95 0.3679 0.0435

Jupiter 4538-06-10 21:21 G 3378691.26 3378691.39 3378691.52 0.0540 0.0109

Jupiter 4538-09-08 06:28 G 3378780.74 3378780.77 3378780.81 0.0539 0.0518

Venus 4539-01-06 09:50 G 3378900.81 3378900.91 3378901.01 0.3690 0.2641

Mars 4539-05-30 17:16 G 3379045.10 3379045.22 3379045.33 0.1856 0.0329

Uranus 4540-02-16 20:24 G 3379307.32 3379307.35 3379307.40 0.0134 0.0127

Uranus 4540-05-15 00:00 G 3379395.42 3379395.50 3379395.58 0.0134 0.0109

Mars 4540-06-24 12:57 G 3379436.01 3379436.04 3379436.07 0.1690 0.1646

Uranus 4540-08-11 03:07 G 3379483.54 3379483.63 3379483.74 0.0135 0.0091

Uranus 4540-11-07 06:28 G 3379571.66 3379571.77 3379571.89 0.0135 0.0074

Uranus 4541-02-03 09:50 G 3379659.79 3379659.91 3379660.03 0.0135 0.0056

Uranus 4541-05-02 12:57 G 3379747.92 3379748.04 3379748.18 0.0135 0.0039

Moon 4541-06-09 11:16 G 3379785.86 3379785.97 3379786.07 0.2656 0.1957

Earth 4541-06-09 11:16 G 3379785.86 3379785.97 3379786.08 0.2650 0.1910 *

Uranus 4541-07-29 16:19 G 3379836.05 3379836.18 3379836.31 0.0135 0.0021

Uranus 4541-10-25 19:26 G 3379924.18 3379924.31 3379924.45 0.0135 0.0006

Uranus 4542-01-21 22:48 G 3380012.32 3380012.45 3380012.58 0.0135 0.0014

Uranus 4542-04-20 01:55 G 3380100.45 3380100.58 3380100.71 0.0135 0.0031

Uranus 4542-07-17 05:16 G 3380188.59 3380188.72 3380188.84 0.0135 0.0049

Uranus 4542-10-13 08:09 G 3380276.73 3380276.84 3380276.97 0.0135 0.0067

Venus 4543-01-06 00:57 G 3380361.44 3380361.54 3380361.64 0.3680 0.0908

Uranus 4543-01-09 11:31 G 3380364.88 3380364.98 3380365.09 0.0135 0.0083

Uranus 4543-04-07 14:38 G 3380453.03 3380453.11 3380453.20 0.0135 0.0100

Uranus 4543-07-04 17:45 G 3380541.18 3380541.24 3380541.31 0.0135 0.0118

Uranus 4543-09-30 20:52 G 3380629.37 3380629.37 3380629.39 0.0136 0.0135

Jupiter 4544-07-24 07:26 G 3380926.64 3380926.81 3380926.98 0.0488 0.0122

Moon 4544-12-13 03:50 G 3381068.57 3381068.66 3381068.74 0.2677 0.1715

Earth 4544-12-13 03:50 G 3381068.58 3381068.66 3381068.74 0.2684 0.1703 *

Saturn 4545-04-09 10:33 G 3381185.81 3381185.94 3381186.08 0.0280 0.0165

Saturn 4545-07-07 06:14 G 3381274.59 3381274.76 3381274.93 0.0279 0.0023

Saturn 4545-10-04 01:55 G 3381363.43 3381363.58 3381363.74 0.0278 0.0121

Saturn 4545-12-31 22:04 G 3381452.37 3381452.42 3381452.47 0.0278 0.0266

Venus 4548-07-21 17:31 G 3382385.15 3382385.23 3382385.32 0.3681 0.2209

Mars 4548-10-20 01:40 G 3382475.47 3382475.57 3382475.67 0.1863 0.1031

Mars 4549-11-14 13:11 G 3382865.91 3382866.05 3382866.20 0.1684 0.0783

Jupiter 4550-03-29 23:31 G 3383001.37 3383001.48 3383001.60 0.0540 0.0284

Jupiter 4550-06-27 09:21 G 3383090.79 3383090.89 3383090.99 0.0540 0.0354

Mars 4550-09-25 14:52 G 3383181.08 3383181.12 3383181.16 0.1835 0.1725

Earth 4551-12-07 02:52 G 3383618.56 3383618.62 3383618.68 0.2679 0.2248

Moon 4551-12-07 03:35 G 3383618.59 3383618.65 3383618.71 0.2681 0.2216 *

Venus 4554-02-04 10:04 G 3384408.89 3384408.92 3384408.96 0.3682 0.3474

Jupiter 4556-05-12 06:43 G 3385236.61 3385236.78 3385236.96 0.0487 0.0037

Mars 4558-03-12 09:50 G 3385905.87 3385905.91 3385905.95 0.1869 0.1758

Mars 4559-04-06 13:40 G 3386295.91 3386296.07 3386296.24 0.1678 0.0077

Mars 4560-02-16 00:00 G 3386611.41 3386611.50 3386611.59 0.1842 0.1089

Saturn 4560-08-04 00:00 G 3386781.45 3386781.50 3386781.55 0.0279 0.0260

Saturn 4560-10-31 12:43 G 3386869.91 3386870.03 3386870.15 0.0280 0.0143

Saturn 4561-01-28 01:26 G 3386958.42 3386958.56 3386958.70 0.0280 0.0027

Saturn 4561-04-26 13:55 G 3387046.95 3387047.08 3387047.21 0.0281 0.0088

Saturn 4561-07-24 02:09 G 3387135.50 3387135.59 3387135.69 0.0282 0.0202

Jupiter 4562-01-16 02:52 G 3387311.55 3387311.62 3387311.70 0.0541 0.0441

Jupiter 4562-04-15 12:57 G 3387400.92 3387401.04 3387401.16 0.0540 0.0204

Earth 4564-12-08 20:52 G 3388369.27 3388369.37 3388369.48 0.2681 0.0821

Moon 4564-12-08 21:35 G 3388369.29 3388369.40 3388369.51 0.2679 0.0672 *

Jupiter 4568-02-29 05:45 G 3389546.58 3389546.74 3389546.90 0.0487 0.0198

Jupiter 4568-05-29 07:26 G 3389636.75 3389636.81 3389636.88 0.0488 0.0447

Mars 4568-08-26 14:52 G 3389725.98 3389726.12 3389726.25 0.1672 0.0873

Mars 4569-07-08 08:38 G 3390041.75 3390041.86 3390041.97 0.1849 0.0421

Jupiter 4574-02-01 16:48 G 3391711.07 3391711.20 3391711.33 0.0540 0.0055

Moon 4574-06-07 10:33 G 3391836.79 3391836.94 3391837.09 0.2656 0.0372

Earth 4574-06-07 11:45 G 3391836.83 3391836.99 3391837.14 0.2651 0.0330 *

Saturn 4574-08-27 09:21 G 3391917.78 3391917.89 3391918.00 0.0280 0.0213

Saturn 4574-11-24 04:33 G 3392006.53 3392006.69 3392006.86 0.0279 0.0073

Saturn 4575-02-21 00:14 G 3392095.34 3392095.51 3392095.68 0.0279 0.0070

Saturn 4575-05-20 20:09 G 3392184.23 3392184.34 3392184.45 0.0278 0.0215

Earth 4577-12-11 14:52 G 3393120.01 3393120.12 3393120.23 0.2682 0.0598

Moon 4577-12-11 15:07 G 3393120.02 3393120.13 3393120.24 0.2676 0.0604 *

Mars 4578-01-16 16:04 G 3393156.16 3393156.17 3393156.18 0.1666 0.1657

Mars 4578-11-28 17:16 G 3393472.10 3393472.22 3393472.34 0.1856 0.0259

Jupiter 4579-12-18 05:16 G 3393856.60 3393856.72 3393856.84 0.0487 0.0351

Jupiter 4580-03-17 06:28 G 3393946.63 3393946.77 3393946.92 0.0488 0.0285

Uranus 4581-03-03 19:40 G 3394298.24 3394298.32 3394298.43 0.0144 0.0123

Uranus 4581-05-31 03:21 G 3394386.51 3394386.64 3394386.79 0.0144 0.0094

Uranus 4581-08-27 11:16 G 3394474.81 3394474.97 3394475.14 0.0144 0.0065

Uranus 4581-11-23 18:57 G 3394563.11 3394563.29 3394563.47 0.0143 0.0036

Uranus 4582-02-20 02:38 G 3394651.43 3394651.61 3394651.80 0.0143 0.0008

Uranus 4582-05-19 10:33 G 3394739.75 3394739.94 3394740.12 0.0143 0.0022

Uranus 4582-08-15 18:14 G 3394828.09 3394828.26 3394828.44 0.0143 0.0051

Uranus 4582-11-12 02:09 G 3394916.44 3394916.59 3394916.75 0.0143 0.0081

Venus 4582-12-28 19:55 G 3394963.26 3394963.33 3394963.40 0.3678 0.2737

Uranus 4583-02-08 09:50 G 3395004.80 3395004.91 3395005.04 0.0143 0.0110

Uranus 4583-05-07 18:00 G 3395093.21 3395093.25 3395093.29 0.0143 0.0139

Venus 4584-07-13 03:21 G 3395525.53 3395525.64 3395525.75 0.3692 0.2250

Jupiter 4585-11-20 20:09 G 3396021.21 3396021.34 3396021.47 0.0540 0.0104

Jupiter 4586-02-18 05:16 G 3396110.70 3396110.72 3396110.75 0.0539 0.0524

Moon 4587-06-10 17:45 G 3396588.18 3396588.24 3396588.30 0.2657 0.2406

Earth 4587-06-10 17:45 G 3396588.18 3396588.24 3396588.29 0.2649 0.2459 *

Mars 4588-04-20 01:40 G 3396902.47 3396902.57 3396902.67 0.1862 0.0959

Venus 4588-07-13 12:57 G 3396986.94 3396987.04 3396987.14 0.3679 0.1347

Mars 4589-05-15 13:40 G 3397292.93 3397293.07 3397293.21 0.1684 0.0868

Venus 4590-01-27 06:43 G 3397549.64 3397549.78 3397549.92 0.3691 0.0577

Saturn 4590-03-20 13:40 G 3397601.97 3397602.07 3397602.18 0.0280 0.0185

Mars 4590-03-26 15:07 G 3397608.11 3397608.13 3397608.15 0.1835 0.1797

Saturn 4590-06-17 02:24 G 3397690.47 3397690.60 3397690.74 0.0281 0.0069

Saturn 4590-09-13 15:07 G 3397778.99 3397779.13 3397779.26 0.0281 0.0048

Saturn 4590-12-11 03:21 G 3397867.53 3397867.64 3397867.76 0.0282 0.0163

Moon 4590-12-14 08:24 G 3397870.78 3397870.85 3397870.93 0.2678 0.1950

Earth 4590-12-14 08:38 G 3397870.79 3397870.86 3397870.93 0.2684 0.1994 *

Neptune 4591-01-14 02:24 G 3397901.55 3397901.60 3397901.67 0.0088 0.0082

Saturn 4591-03-09 15:35 G 3397956.13 3397956.15 3397956.18 0.0283 0.0277

Neptune 4591-04-12 05:02 G 3397989.63 3397989.71 3397989.83 0.0088 0.0074

Neptune 4591-07-09 08:09 G 3398077.73 3398077.84 3398077.97 0.0088 0.0065

Neptune 4591-10-05 11:02 G 3398165.83 3398165.96 3398166.11 0.0088 0.0056

Neptune 4592-01-01 14:09 G 3398253.94 3398254.09 3398254.24 0.0088 0.0047

Jupiter 4592-01-04 05:45 G 3398256.57 3398256.74 3398256.91 0.0488 0.0125

Neptune 4592-03-29 16:48 G 3398342.05 3398342.20 3398342.38 0.0088 0.0039

Neptune 4592-06-25 19:55 G 3398430.17 3398430.33 3398430.51 0.0088 0.0030

Neptune 4592-09-21 23:02 G 3398518.29 3398518.46 3398518.64 0.0088 0.0021

Neptune 4592-12-19 01:55 G 3398606.41 3398606.58 3398606.77 0.0088 0.0012

Neptune 4593-03-17 05:02 G 3398694.53 3398694.71 3398694.89 0.0088 0.0003

Neptune 4593-06-13 07:55 G 3398782.65 3398782.83 3398783.02 0.0088 0.0007

Neptune 4593-09-09 11:02 G 3398870.78 3398870.96 3398871.14 0.0088 0.0015

Neptune 4593-12-06 13:55 G 3398958.91 3398959.08 3398959.26 0.0088 0.0024

Venus 4594-01-27 06:00 G 3399010.64 3399010.75 3399010.86 0.3680 0.0077

Neptune 4594-03-04 17:02 G 3399047.04 3399047.21 3399047.38 0.0088 0.0033

Neptune 4594-05-31 20:09 G 3399135.18 3399135.34 3399135.50 0.0088 0.0042

Neptune 4594-08-27 22:48 G 3399223.32 3399223.45 3399223.61 0.0088 0.0052

Neptune 4594-11-24 01:55 G 3399311.46 3399311.58 3399311.73 0.0088 0.0061

Neptune 4595-02-20 05:02 G 3399399.61 3399399.71 3399399.83 0.0088 0.0070

Neptune 4595-05-19 08:09 G 3399487.77 3399487.84 3399487.93 0.0088 0.0079

Venus 4595-08-13 10:48 G 3399573.92 3399573.95 3399573.98 0.3690 0.3581

Jupiter 4597-09-08 23:02 G 3400331.34 3400331.46 3400331.57 0.0540 0.0267

Mars 4597-09-10 09:50 G 3400332.86 3400332.91 3400332.96 0.1869 0.1690

Earth 4597-12-07 07:40 G 3400420.75 3400420.82 3400420.90 0.2679 0.1953

Jupiter 4597-12-07 08:38 G 3400420.77 3400420.86 3400420.95 0.0539 0.0368 *

Moon 4597-12-07 08:24 G 3400420.77 3400420.85 3400420.94 0.2680 0.1784 *

Mars 4598-10-05 14:24 G 3400722.94 3400723.10 3400723.26 0.1678 0.0029

Venus 4599-08-12 22:48 G 3401034.35 3401034.45 3401034.55 0.3681 0.1331

Mars 4599-08-17 00:00 G 3401038.41 3401038.50 3401038.59 0.1842 0.1153

Jupiter 4603-10-24 05:16 G 3402566.54 3402566.72 3402566.89 0.0488 0.0030

Saturn 4604-01-15 09:21 G 3402649.82 3402649.89 3402649.97 0.0280 0.0252

Saturn 4604-04-13 04:33 G 3402738.54 3402738.69 3402738.86 0.0279 0.0113

Saturn 4604-07-11 00:14 G 3402827.34 3402827.51 3402827.69 0.0279 0.0031

Saturn 4604-10-07 20:09 G 3402916.21 3402916.34 3402916.48 0.0278 0.0175

Venus 4605-02-26 15:21 G 3403058.07 3403058.14 3403058.21 0.3681 0.2616

Moon 4607-06-06 10:48 G 3403887.93 3403887.95 3403887.98 0.2656 0.2613

Earth 4607-06-06 12:28 G 3403887.97 3403888.02 3403888.07 0.2653 0.2497 *

Mars 4608-02-26 15:21 G 3404153.00 3404153.14 3404153.28 0.1672 0.0786

Mars 4609-01-07 08:38 G 3404468.75 3404468.86 3404468.97 0.1849 0.0490

Jupiter 4609-06-29 01:11 G 3404641.47 3404641.55 3404641.62 0.0541 0.0445

Jupiter 4609-09-26 11:16 G 3404730.85 3404730.97 3404731.09 0.0540 0.0200

Earth 4610-12-11 01:40 G 3405171.47 3405171.57 3405171.68 0.2681 0.0530

Moon 4610-12-11 02:24 G 3405171.49 3405171.60 3405171.71 0.2678 0.0482 *

Jupiter 4615-08-12 04:33 G 3406876.53 3406876.69 3406876.86 0.0487 0.0185

Jupiter 4615-11-10 06:14 G 3406966.71 3406966.76 3406966.83 0.0488 0.0460

Mars 4617-07-18 16:48 G 3407583.15 3407583.20 3407583.26 0.1666 0.1562

Mars 4618-05-30 17:16 G 3407899.11 3407899.22 3407899.34 0.1856 0.0194

Saturn 4619-08-08 17:02 G 3408334.12 3408334.21 3408334.30 0.0279 0.0208

Saturn 4619-11-05 05:45 G 3408422.61 3408422.74 3408422.87 0.0280 0.0091

Saturn 4620-02-01 18:28 G 3408511.13 3408511.27 3408511.40 0.0281 0.0025

Saturn 4620-04-30 06:43 G 3408599.67 3408599.78 3408599.90 0.0281 0.0139

Moon 4620-06-08 17:31 G 3408639.08 3408639.23 3408639.38 0.2657 0.0042

Earth 4620-06-08 18:14 G 3408639.11 3408639.26 3408639.41 0.2651 0.0230 *

Saturn 4620-07-27 18:57 G 3408688.24 3408688.29 3408688.35 0.0282 0.0253

Jupiter 4621-07-15 14:38 G 3409040.98 3409041.11 3409041.24 0.0540 0.0046

Earth 4623-12-13 19:40 G 3409922.22 3409922.32 3409922.42 0.2682 0.0889

Moon 4623-12-13 19:55 G 3409922.23 3409922.33 3409922.43 0.2675 0.0956 *

Uranus 4624-03-09 03:21 G 3410008.59 3410008.64 3410008.70 0.0134 0.0123

Uranus 4624-06-05 06:43 G 3410096.70 3410096.78 3410096.87 0.0134 0.0106

Uranus 4624-09-01 09:50 G 3410184.82 3410184.91 3410185.02 0.0135 0.0089

Uranus 4624-11-28 13:26 G 3410272.94 3410273.06 3410273.17 0.0135 0.0071

Uranus 4625-02-24 16:33 G 3410361.07 3410361.19 3410361.32 0.0135 0.0053

Uranus 4625-05-23 19:55 G 3410449.20 3410449.33 3410449.46 0.0135 0.0036

Uranus 4625-08-19 23:02 G 3410537.33 3410537.46 3410537.60 0.0135 0.0019

Uranus 4625-11-16 02:24 G 3410625.47 3410625.60 3410625.74 0.0135 0.0001

Uranus 4626-02-12 05:31 G 3410713.60 3410713.73 3410713.87 0.0135 0.0017

Uranus 4626-05-11 08:52 G 3410801.74 3410801.87 3410802.00 0.0135 0.0034

Uranus 4626-08-07 12:00 G 3410889.88 3410890.00 3410890.13 0.0135 0.0051

Uranus 4626-11-03 15:07 G 3410978.02 3410978.13 3410978.25 0.0135 0.0069

Uranus 4627-01-30 18:14 G 3411066.17 3411066.26 3411066.37 0.0135 0.0086

Uranus 4627-04-28 21:21 G 3411154.31 3411154.39 3411154.48 0.0135 0.0104

Jupiter 4627-05-31 03:35 G 3411186.53 3411186.65 3411186.77 0.0487 0.0347

Uranus 4627-07-26 00:28 G 3411242.47 3411242.52 3411242.59 0.0135 0.0121

Jupiter 4627-08-29 04:48 G 3411276.56 3411276.70 3411276.84 0.0488 0.0289

Mars 4627-10-21 01:40 G 3411329.47 3411329.57 3411329.67 0.1863 0.0898

Mars 4628-11-14 14:38 G 3411719.97 3411720.11 3411720.24 0.1684 0.0965

Jupiter 4633-05-03 18:14 G 3413351.13 3413351.26 3413351.39 0.0540 0.0107

Jupiter 4633-08-01 03:35 G 3413440.63 3413440.65 3413440.68 0.0539 0.0524

Saturn 4633-08-31 04:04 G 3413470.53 3413470.67 3413470.81 0.0280 0.0156

Saturn 4633-11-27 23:31 G 3413559.30 3413559.48 3413559.65 0.0279 0.0015

Saturn 4634-02-24 19:11 G 3413648.15 3413648.30 3413648.45 0.0278 0.0129

Saturn 4634-05-24 14:52 G 3413737.11 3413737.12 3413737.16 0.0278 0.0274

Moon 4636-12-15 13:11 G 3414672.99 3414673.05 3414673.11 0.2678 0.2207

Earth 4636-12-15 13:26 G 3414673.01 3414673.06 3414673.12 0.2684 0.2283 *

Mars 4637-03-12 10:04 G 3414759.86 3414759.92 3414759.97 0.1869 0.1614

Mars 4638-04-06 14:52 G 3415149.96 3415150.12 3415150.29 0.1678 0.0124

Mars 4639-02-16 00:00 G 3415465.41 3415465.50 3415465.58 0.1842 0.1219

Jupiter 4639-06-17 03:50 G 3415586.49 3415586.66 3415586.83 0.0488 0.0130

Venus 4639-08-05 17:45 G 3415636.15 3415636.24 3415636.32 0.3679 0.2287

Venus 4641-02-18 03:50 G 3416198.53 3416198.66 3416198.79 0.3691 0.1407

Earth 4643-12-09 12:43 G 3417222.94 3417223.03 3417223.11 0.2679 0.1651

Moon 4643-12-09 13:26 G 3417222.97 3417223.06 3417223.15 0.2680 0.1605 *

Venus 4645-02-18 10:48 G 3417659.85 3417659.95 3417660.06 0.3679 0.0905

Jupiter 4645-02-19 21:35 G 3417661.28 3417661.40 3417661.51 0.0540 0.0264

Jupiter 4645-05-20 07:11 G 3417750.71 3417750.80 3417750.90 0.0539 0.0371

Venus 4646-09-04 07:26 G 3418222.68 3418222.81 3418222.94 0.3690 0.1475

Mars 4647-08-27 15:50 G 3418580.02 3418580.16 3418580.31 0.1672 0.0701

Mars 4648-07-08 08:52 G 3418895.76 3418895.87 3418895.98 0.1849 0.0564

Saturn 4648-12-25 18:14 G 3419066.19 3419066.26 3419066.32 0.0280 0.0248

Saturn 4649-03-24 06:57 G 3419154.67 3419154.79 3419154.92 0.0280 0.0131

Saturn 4649-06-20 19:40 G 3419243.18 3419243.32 3419243.46 0.0281 0.0015

Saturn 4649-09-17 08:09 G 3419331.71 3419331.84 3419331.97 0.0282 0.0101

Saturn 4649-12-14 20:24 G 3419420.27 3419420.35 3419420.44 0.0282 0.0215

Venus 4650-09-04 03:35 G 3419683.55 3419683.65 3419683.76 0.3680 0.0449

Jupiter 4651-04-05 03:07 G 3419896.46 3419896.63 3419896.81 0.0488 0.0031

Moon 4653-06-06 17:16 G 3420690.14 3420690.22 3420690.31 0.2655 0.2226

Earth 4653-06-06 18:57 G 3420690.18 3420690.29 3420690.39 0.2653 0.1969 *

Venus 4656-03-19 20:24 G 3421707.26 3421707.35 3421707.45 0.3681 0.1748

Jupiter 4656-12-09 00:14 G 3421971.44 3421971.51 3421971.60 0.0540 0.0431

Earth 4656-12-11 06:43 G 3421973.67 3421973.78 3421973.89 0.2681 0.0237

Moon 4656-12-11 07:11 G 3421973.69 3421973.80 3421973.91 0.2676 0.0096 *

Mars 4657-01-16 17:16 G 3422010.15 3422010.22 3422010.30 0.1666 0.1479

Jupiter 4657-03-08 10:19 G 3422060.81 3422060.93 3422061.06 0.0539 0.0214

Mars 4657-11-28 17:16 G 3422326.10 3422326.22 3422326.34 0.1856 0.0129

Venus 4661-10-03 12:57 G 3423730.99 3423731.04 3423731.10 0.3682 0.3023

Saturn 4663-01-18 04:04 G 3424202.56 3424202.67 3424202.80 0.0280 0.0195

Jupiter 4663-01-22 02:52 G 3424206.46 3424206.62 3424206.78 0.0487 0.0182

Saturn 4663-04-16 23:31 G 3424291.32 3424291.48 3424291.65 0.0279 0.0054

Jupiter 4663-04-22 04:33 G 3424296.64 3424296.69 3424296.75 0.0488 0.0463

Saturn 4663-07-14 19:11 G 3424380.14 3424380.30 3424380.47 0.0279 0.0090

Saturn 4663-10-11 15:07 G 3424469.04 3424469.13 3424469.23 0.0278 0.0234

Uranus 4665-03-25 02:24 G 3424999.51 3424999.60 3424999.72 0.0144 0.0118

Uranus 4665-06-21 10:04 G 3425087.79 3425087.92 3425088.08 0.0144 0.0089

Uranus 4665-09-17 18:00 G 3425176.08 3425176.25 3425176.42 0.0144 0.0060

Uranus 4665-12-15 01:40 G 3425264.39 3425264.57 3425264.75 0.0143 0.0031

Uranus 4666-03-13 09:21 G 3425352.71 3425352.89 3425353.08 0.0143 0.0003

Uranus 4666-06-09 17:02 G 3425441.03 3425441.21 3425441.40 0.0143 0.0027

Moon 4666-06-10 00:00 G 3425441.36 3425441.50 3425441.65 0.2657 0.0800 *

Earth 4666-06-10 00:43 G 3425441.38 3425441.53 3425441.68 0.2651 0.0766 *

Uranus 4666-09-06 00:57 G 3425529.37 3425529.54 3425529.71 0.0143 0.0056

Uranus 4666-12-03 08:52 G 3425617.72 3425617.87 3425618.02 0.0143 0.0086

Uranus 4667-03-01 16:19 G 3425706.09 3425706.18 3425706.31 0.0143 0.0115

Mars 4667-04-21 01:40 G 3425756.47 3425756.57 3425756.68 0.1862 0.0827

Mars 4668-05-15 15:21 G 3426147.01 3426147.14 3426147.26 0.1684 0.1062

Jupiter 4668-12-25 12:43 G 3426370.90 3426371.03 3426371.17 0.0540 0.0044

Earth 4669-12-14 00:28 G 3426724.42 3426724.52 3426724.62 0.2683 0.1184

Moon 4669-12-14 00:43 G 3426724.43 3426724.53 3426724.63 0.2676 0.1155 *

Neptune 4673-01-26 22:33 G 3427864.42 3427864.44 3427864.48 0.0089 0.0087

Neptune 4673-04-25 00:14 G 3427952.46 3427952.51 3427952.58 0.0089 0.0080

Neptune 4673-07-22 01:55 G 3428040.51 3428040.58 3428040.67 0.0089 0.0072

Neptune 4673-10-18 03:35 G 3428128.56 3428128.65 3428128.75 0.0089 0.0065

Neptune 4674-01-14 05:02 G 3428216.61 3428216.71 3428216.83 0.0089 0.0058

Neptune 4674-04-12 06:43 G 3428304.67 3428304.78 3428304.90 0.0089 0.0050

Neptune 4674-07-09 08:24 G 3428392.73 3428392.85 3428392.98 0.0089 0.0043

Neptune 4674-10-05 10:04 G 3428480.79 3428480.92 3428481.05 0.0089 0.0035

Jupiter 4674-11-10 02:24 G 3428516.48 3428516.60 3428516.72 0.0487 0.0336

Neptune 4675-01-01 11:31 G 3428568.85 3428568.98 3428569.12 0.0089 0.0028

Jupiter 4675-02-08 03:35 G 3428606.51 3428606.65 3428606.79 0.0488 0.0300

Neptune 4675-03-30 13:11 G 3428656.91 3428657.05 3428657.19 0.0089 0.0021

Neptune 4675-06-26 14:52 G 3428744.98 3428745.12 3428745.25 0.0089 0.0014

Neptune 4675-09-22 16:19 G 3428833.04 3428833.18 3428833.32 0.0089 0.0006

Neptune 4675-12-19 18:00 G 3428921.11 3428921.25 3428921.39 0.0089 0.0002

Neptune 4676-03-16 19:26 G 3429009.17 3429009.31 3429009.45 0.0089 0.0008

Neptune 4676-06-12 20:52 G 3429097.24 3429097.37 3429097.51 0.0089 0.0016

Neptune 4676-09-08 22:33 G 3429185.31 3429185.44 3429185.57 0.0089 0.0023

Mars 4676-09-10 09:50 G 3429186.85 3429186.91 3429186.98 0.1869 0.1555

Neptune 4676-12-06 00:00 G 3429273.37 3429273.50 3429273.63 0.0089 0.0030

Neptune 4677-03-04 01:26 G 3429361.44 3429361.56 3429361.69 0.0089 0.0037

Pluto 4677-03-20 00:00 G 3429377.49 3429377.50 3429377.55 0.0071 0.0069

Neptune 4677-05-31 02:52 G 3429449.51 3429449.62 3429449.75 0.0089 0.0045

Pluto 4677-06-16 00:57 G 3429465.48 3429465.54 3429465.63 0.0071 0.0060

Neptune 4677-08-27 04:33 G 3429537.58 3429537.69 3429537.81 0.0089 0.0051

Pluto 4677-09-12 01:55 G 3429553.49 3429553.58 3429553.68 0.0071 0.0051

Mars 4677-10-05 15:35 G 3429576.99 3429577.15 3429577.32 0.1678 0.0217

Neptune 4677-11-23 06:00 G 3429625.65 3429625.75 3429625.86 0.0089 0.0059

Pluto 4677-12-09 02:38 G 3429641.51 3429641.61 3429641.73 0.0071 0.0043

Neptune 4678-02-19 07:26 G 3429713.73 3429713.81 3429713.91 0.0089 0.0066

Pluto 4678-03-07 03:35 G 3429729.53 3429729.65 3429729.78 0.0071 0.0034

Saturn 4678-05-14 21:21 G 3429798.36 3429798.39 3429798.43 0.0279 0.0269

Neptune 4678-05-18 09:07 G 3429801.80 3429801.88 3429801.96 0.0089 0.0073

Pluto 4678-06-03 04:19 G 3429817.56 3429817.68 3429817.82 0.0072 0.0025

Saturn 4678-08-11 10:19 G 3429886.82 3429886.93 3429887.05 0.0280 0.0152

Neptune 4678-08-14 10:33 G 3429889.89 3429889.94 3429890.01 0.0089 0.0080

Mars 4678-08-17 00:00 G 3429892.42 3429892.50 3429892.58 0.1842 0.1283

Pluto 4678-08-30 05:16 G 3429905.59 3429905.72 3429905.86 0.0072 0.0016

Saturn 4678-11-07 23:02 G 3429975.33 3429975.46 3429975.60 0.0280 0.0037

Neptune 4678-11-10 12:00 G 3429977.98 3429978.00 3429978.04 0.0089 0.0087

Pluto 4678-11-26 06:14 G 3429993.62 3429993.76 3429993.90 0.0072 0.0006

Saturn 4679-02-04 11:45 G 3430063.85 3430063.99 3430064.12 0.0281 0.0079

Pluto 4679-02-22 07:11 G 3430081.66 3430081.80 3430081.94 0.0072 0.0003

Saturn 4679-05-04 00:00 G 3430152.40 3430152.50 3430152.60 0.0282 0.0194

Pluto 4679-05-21 07:55 G 3430169.69 3430169.83 3430169.97 0.0072 0.0012

Pluto 4679-08-17 08:52 G 3430257.74 3430257.87 3430258.00 0.0072 0.0021

Pluto 4679-11-13 09:21 G 3430345.78 3430345.89 3430346.03 0.0072 0.0032

Pluto 4680-02-09 10:19 G 3430433.83 3430433.93 3430434.06 0.0072 0.0041

Pluto 4680-05-07 11:31 G 3430521.88 3430521.98 3430522.08 0.0073 0.0050

Pluto 4680-08-03 12:00 G 3430609.94 3430610.00 3430610.10 0.0073 0.0060

Jupiter 4680-10-13 16:04 G 3430681.04 3430681.17 3430681.30 0.0540 0.0118

Pluto 4680-10-30 12:57 G 3430698.02 3430698.04 3430698.10 0.0073 0.0070

Jupiter 4681-01-11 01:26 G 3430770.53 3430770.56 3430770.60 0.0539 0.0512

Moon 4682-12-16 17:45 G 3431475.21 3431475.24 3431475.28 0.2679 0.2534

Earth 4682-12-16 18:14 G 3431475.24 3431475.26 3431475.29 0.2684 0.2575 *

Jupiter	4686-11-27 01:55 G	3432916.41	3432916.58	3432916.75	0.0488	0.0130
Mars	4687-02-25 16:33 G	3433007.04	3433007.19	3433007.34	0.1672	0.0608
Mars	4688-01-07 08:38 G	3433322.75	3433322.86	3433322.97	0.1849	0.0621
Earth	4689-12-09 17:31 G	3434025.13	3434025.23	3434025.33	0.2679	0.1355
Moon	4689-12-09 18:14 G	3434025.16	3434025.26	3434025.36	0.2680	0.1199 *
Venus	4690-08-26 22:19 G	3434285.38	3434285.43	3434285.48	0.3678	0.3244
Venus	4692-03-11 01:11 G	3434847.49	3434847.55	3434847.62	0.3692	0.3284
Saturn	4692-06-06 04:19 G	3434934.60	3434934.68	3434934.78	0.0280	0.0232
Jupiter	4692-08-01 19:40 G	3434991.20	3434991.32	3434991.43	0.0541	0.0272
Saturn	4692-09-02 23:45 G	3435023.33	3435023.49	3435023.65	0.0279	0.0091
Jupiter	4692-10-30 05:16 G	3435080.63	3435080.72	3435080.82	0.0540	0.0367
Saturn	4692-11-30 19:11 G	3435112.13	3435112.30	3435112.47	0.0279	0.0051
Saturn	4693-02-27 15:07 G	3435201.01	3435201.13	3435201.25	0.0278	0.0194
Venus	4696-03-11 15:35 G	3436309.06	3436309.15	3436309.25	0.3679	0.1835
Mars	4696-07-17 18:00 G	3436437.16	3436437.25	3436437.33	0.1666	0.1397
Mars	4697-05-29 17:31 G	3436753.11	3436753.23	3436753.34	0.1856	0.0078
Venus	4697-09-25 04:19 G	3436871.54	3436871.68	3436871.82	0.3691	0.0541
Jupiter	4698-09-15 01:11 G	3437226.37	3437226.55	3437226.72	0.0487	0.0029
Moon	4699-06-08 00:00 G	3437492.38	3437492.50	3437492.62	0.2656	0.1571
Earth	4699-06-08 01:11 G	3437492.42	3437492.55	3437492.68	0.2653	0.1442 *
Venus	4701-09-26 08:38 G	3438332.75	3438332.86	3438332.97	0.3680	0.0471
Earth	4702-12-13 11:31 G	3438775.87	3438775.98	3438776.09	0.2681	0.0078
Moon	4702-12-13 12:00 G	3438775.89	3438776.00	3438776.11	0.2675	0.0083 *
Venus	4703-04-12 08:09 G	3438895.73	3438895.84	3438895.95	0.3690	0.2379
Jupiter	4704-05-21 22:48 G	3439301.37	3439301.45	3439301.53	0.0540	0.0431
Jupiter	4704-08-19 08:52 G	3439390.75	3439390.87	3439390.99	0.0540	0.0213
Mars	4706-10-21 01:55 G	3440183.47	3440183.58	3440183.68	0.1862	0.0760
Venus	4707-04-12 01:26 G	3440356.46	3440356.56	3440356.67	0.3680	0.0865
Mars	4707-11-15 15:35 G	3440574.03	3440574.15	3440574.27	0.1684	0.1145
Saturn	4707-12-30 11:45 G	3440618.89	3440618.99	3440619.09	0.0280	0.0191

Saturn 4708-03-28 00:28 G 3440707.39 3440707.52 3440707.66 0.0281 0.0075

Uranus 4708-03-30 10:19 G 3440709.88 3440709.93 3440709.99 0.0134 0.0120

Saturn 4708-06-24 12:57 G 3440795.91 3440796.04 3440796.18 0.0281 0.0043

Uranus 4708-06-26 13:40 G 3440797.98 3440798.07 3440798.16 0.0134 0.0103

Saturn 4708-09-21 01:26 G 3440884.45 3440884.56 3440884.68 0.0282 0.0156

Uranus 4708-09-22 16:48 G 3440886.10 3440886.20 3440886.31 0.0135 0.0086

Saturn 4708-12-18 13:40 G 3440973.04 3440973.07 3440973.11 0.0283 0.0270

Uranus 4708-12-19 20:09 G 3440974.23 3440974.34 3440974.46 0.0135 0.0068

Uranus 4709-03-17 23:31 G 3441062.36 3441062.48 3441062.61 0.0135 0.0050

Uranus 4709-06-14 02:52 G 3441150.49 3441150.62 3441150.75 0.0135 0.0033

Uranus 4709-09-10 06:00 G 3441238.62 3441238.75 3441238.89 0.0135 0.0015

Uranus 4709-12-07 09:21 G 3441326.75 3441326.89 3441327.02 0.0135 0.0003

Uranus 4710-03-05 12:28 G 3441414.89 3441415.02 3441415.16 0.0135 0.0020

Uranus 4710-06-01 15:35 G 3441503.03 3441503.15 3441503.28 0.0135 0.0037

Jupiter 4710-07-05 00:28 G 3441536.36 3441536.52 3441536.68 0.0487 0.0187

Uranus 4710-08-28 18:57 G 3441591.17 3441591.29 3441591.41 0.0135 0.0054

Jupiter 4710-10-03 02:09 G 3441626.53 3441626.59 3441626.65 0.0488 0.0458

Uranus 4710-11-24 22:04 G 3441679.31 3441679.42 3441679.53 0.0135 0.0072

Uranus 4711-02-21 01:11 G 3441767.45 3441767.55 3441767.65 0.0135 0.0089

Uranus 4711-05-20 04:19 G 3441855.61 3441855.68 3441855.77 0.0135 0.0106

Uranus 4711-08-16 07:26 G 3441943.77 3441943.81 3441943.87 0.0135 0.0123

Moon 4712-06-11 06:43 G 3442243.64 3442243.78 3442243.92 0.2658 0.1179

Earth 4712-06-11 07:11 G 3442243.66 3442243.80 3442243.93 0.2651 0.1315 *

Venus 4712-10-25 18:14 G 3442380.17 3442380.26 3442380.35 0.3681 0.2158

Moon 4715-12-16 05:16 G 3443526.63 3443526.72 3443526.81 0.2676 0.1525

Earth 4715-12-16 05:16 G 3443526.63 3443526.72 3443526.81 0.2683 0.1476 *

Mars 4716-03-12 10:04 G 3443613.85 3443613.92 3443613.99 0.1869 0.1478

Jupiter 4716-06-07 12:00 G 3443700.86 3443701.00 3443701.13 0.0540 0.0054

Mars 4717-04-06 16:19 G 3444004.02 3444004.18 3444004.34 0.1678 0.0304

Mars 4718-02-16 00:00 G 3444319.42 3444319.50 3444319.58 0.1841 0.1349

Venus	4718-05-11 10:48 G	3444403.91	3444403.95	3444403.99	0.3682	0.3422
Saturn	4721-10-25 04:48 G	3445666.66	3445666.70	3445666.74	0.0280	0.0269
Saturn	4722-01-21 23:45 G	3445755.35	3445755.49	3445755.65	0.0279	0.0131
Saturn	4722-04-20 19:26 G	3445844.14	3445844.31	3445844.48	0.0279	0.0012
Jupiter	4722-04-23 00:14 G	3445846.39	3445846.51	3445846.64	0.0487	0.0337
Saturn	4722-07-18 15:07 G	3445932.99	3445933.13	3445933.28	0.0278	0.0155
Jupiter	4722-07-22 01:26 G	3445936.42	3445936.56	3445936.70	0.0488	0.0300
Earth	4722-12-09 04:19 G	3446076.64	3446076.68	3446076.72	0.2678	0.2488
Moon	4722-12-09 05:02 G	3446076.66	3446076.71	3446076.75	0.2682	0.2407 *
Mars	4726-08-27 17:16 G	3447434.07	3447434.22	3447434.38	0.1672	0.0516
Mars	4727-07-09 08:52 G	3447749.76	3447749.87	3447749.97	0.1849	0.0694
Jupiter	4728-03-26 14:09 G	3448010.96	3448011.09	3448011.22	0.0540	0.0125
Jupiter	4728-06-23 23:31 G	3448100.44	3448100.48	3448100.53	0.0539	0.0505
Jupiter	4734-05-10 00:28 G	3450246.35	3450246.52	3450246.69	0.0488	0.0138
Earth	4735-12-11 22:19 G	3450827.33	3450827.43	3450827.53	0.2680	0.1057
Moon	4735-12-11 23:02 G	3450827.36	3450827.46	3450827.56	0.2679	0.0987 *
Mars	4736-01-17 18:28 G	3450864.18	3450864.27	3450864.37	0.1667	0.1307
Mars	4736-11-28 17:16 G	3451180.11	3451180.22	3451180.34	0.1855	0.0062
Saturn	4737-05-18 15:21 G	3451351.05	3451351.14	3451351.23	0.0280	0.0210
Saturn	4737-08-15 04:19 G	3451439.54	3451439.68	3451439.81	0.0280	0.0094
Saturn	4737-11-11 16:48 G	3451528.06	3451528.20	3451528.34	0.0281	0.0023
Saturn	4738-02-08 05:16 G	3451616.60	3451616.72	3451616.84	0.0282	0.0137
Saturn	4738-05-07 17:31 G	3451705.18	3451705.23	3451705.30	0.0282	0.0251
Jupiter	4740-01-13 17:16 G	3452321.10	3452321.22	3452321.33	0.0540	0.0287
Jupiter	4740-04-12 03:07 G	3452410.53	3452410.63	3452410.72	0.0540	0.0352
Moon	4745-06-09 06:43 G	3454294.64	3454294.78	3454294.92	0.2657	0.1032
Earth	4745-06-09 07:40 G	3454294.68	3454294.82	3454294.97	0.2652	0.0904 *
Jupiter	4746-02-25 23:02 G	3454556.28	3454556.46	3454556.63	0.0487	0.0033
Mars	4746-04-21 01:55 G	3454610.47	3454610.58	3454610.69	0.1862	0.0691
Venus	4747-04-03 20:24 G	3454958.28	3454958.35	3454958.42	0.3678	0.2787

Mars 4747-05-16 16:33 G 3455001.08 3455001.19 3455001.30 0.1685 0.1249

Venus 4748-10-17 01:40 G 3455520.47 3455520.57 3455520.68 0.3692 0.2450

Earth 4748-12-13 16:19 G 3455578.07 3455578.18 3455578.29 0.2681 0.0362

Moon 4748-12-13 16:48 G 3455578.09 3455578.20 3455578.31 0.2676 0.0482 *

Uranus 4749-01-17 01:26 G 3455612.54 3455612.56 3455612.60 0.0144 0.0142

Uranus 4749-04-15 09:07 G 3455700.77 3455700.88 3455701.00 0.0144 0.0113

Uranus 4749-07-12 16:33 G 3455789.05 3455789.19 3455789.35 0.0144 0.0085

Uranus 4749-10-09 00:28 G 3455877.35 3455877.52 3455877.69 0.0144 0.0056

Uranus 4750-01-05 08:09 G 3455965.66 3455965.84 3455966.02 0.0143 0.0027

Uranus 4750-04-03 15:50 G 3456053.98 3456054.16 3456054.35 0.0143 0.0003

Uranus 4750-06-30 23:31 G 3456142.30 3456142.48 3456142.67 0.0143 0.0031

Uranus 4750-09-27 07:11 G 3456230.64 3456230.80 3456230.98 0.0143 0.0061

Uranus 4750-12-24 15:07 G 3456318.99 3456319.13 3456319.28 0.0143 0.0090

Uranus 4751-03-22 22:48 G 3456407.36 3456407.45 3456407.57 0.0143 0.0119

Saturn 4751-06-11 00:43 G 3456487.40 3456487.53 3456487.67 0.0280 0.0162

Saturn 4751-09-07 20:09 G 3456576.17 3456576.34 3456576.51 0.0279 0.0021

Jupiter 4751-11-01 20:38 G 3456631.28 3456631.36 3456631.43 0.0541 0.0443

Saturn 4751-12-05 15:50 G 3456665.00 3456665.16 3456665.32 0.0278 0.0121

Jupiter 4752-01-30 06:43 G 3456720.66 3456720.78 3456720.90 0.0540 0.0204

Saturn 4752-03-03 11:31 G 3456753.94 3456753.98 3456754.04 0.0278 0.0265

Venus 4752-10-17 13:26 G 3456981.96 3456982.06 3456982.16 0.3679 0.1393

Venus 4754-05-03 05:02 G 3457544.57 3457544.71 3457544.85 0.3691 0.0339

Neptune 4755-07-16 22:48 G 3457984.43 3457984.45 3457984.49 0.0088 0.0086

Mars 4755-09-11 10:04 G 3458040.85 3458040.92 3458041.00 0.1869 0.1408

Neptune 4755-10-13 01:26 G 3458072.50 3458072.56 3458072.66 0.0088 0.0078

Neptune 4756-01-09 04:33 G 3458160.59 3458160.69 3458160.81 0.0088 0.0069

Neptune 4756-04-06 07:26 G 3458248.69 3458248.81 3458248.95 0.0088 0.0060

Neptune 4756-07-03 10:33 G 3458336.80 3458336.94 3458337.09 0.0088 0.0051

Neptune 4756-09-29 13:11 G 3458424.91 3458425.05 3458425.22 0.0088 0.0043

Mars 4756-10-05 17:02 G 3458431.05 3458431.21 3458431.37 0.1678 0.0393

Neptune 4756-12-26 16:19 G 3458513.02 3458513.18 3458513.35 0.0088 0.0034

Neptune 4757-03-24 19:11 G 3458601.14 3458601.30 3458601.48 0.0088 0.0025

Neptune 4757-06-20 22:19 G 3458689.26 3458689.43 3458689.61 0.0088 0.0016

Mars 4757-08-17 00:00 G 3458746.43 3458746.50 3458746.57 0.1842 0.1414

Neptune 4757-09-17 01:26 G 3458777.38 3458777.56 3458777.74 0.0088 0.0007

Neptune 4757-12-14 04:19 G 3458865.50 3458865.68 3458865.86 0.0088 0.0002

Jupiter 4757-12-14 22:19 G 3458866.27 3458866.43 3458866.59 0.0487 0.0188

Neptune 4758-03-12 07:11 G 3458953.63 3458953.80 3458953.99 0.0088 0.0011

Jupiter 4758-03-14 23:45 G 3458956.44 3458956.49 3458956.56 0.0488 0.0455

Venus 4758-05-03 06:28 G 3459005.66 3459005.77 3459005.88 0.3680 0.0046

Neptune 4758-06-08 10:19 G 3459041.75 3459041.93 3459042.11 0.0088 0.0020

Moon 4758-06-12 13:11 G 3459045.95 3459046.05 3459046.16 0.2657 0.1886

Earth 4758-06-12 13:40 G 3459045.96 3459046.07 3459046.18 0.2650 0.1857 *

Neptune 4758-09-04 13:11 G 3459129.89 3459130.05 3459130.23 0.0088 0.0029

Neptune 4758-12-01 16:19 G 3459218.02 3459218.18 3459218.35 0.0088 0.0038

Neptune 4759-02-27 19:26 G 3459306.16 3459306.31 3459306.46 0.0088 0.0047

Neptune 4759-05-26 22:33 G 3459394.30 3459394.44 3459394.58 0.0088 0.0056

Neptune 4759-08-23 01:11 G 3459482.44 3459482.55 3459482.69 0.0088 0.0066

Venus 4759-11-17 08:52 G 3459568.81 3459568.87 3459568.93 0.3690 0.3303

Neptune 4759-11-19 04:19 G 3459570.60 3459570.68 3459570.79 0.0088 0.0075

Neptune 4760-02-15 07:26 G 3459658.77 3459658.81 3459658.87 0.0088 0.0084

Moon 4761-12-16 10:04 G 3460328.83 3460328.92 3460329.00 0.2676 0.1680

Earth 4761-12-16 10:04 G 3460328.84 3460328.92 3460329.01 0.2683 0.1768 *

Pluto 4762-11-11 23:02 G 3460659.43 3460659.46 3460659.51 0.0073 0.0071

Pluto 4763-02-08 00:57 G 3460747.45 3460747.54 3460747.66 0.0072 0.0059

Pluto 4763-05-07 02:52 G 3460835.50 3460835.62 3460835.78 0.0072 0.0046

Pluto 4763-08-03 05:16 G 3460923.56 3460923.72 3460923.88 0.0072 0.0034

Pluto 4763-10-30 07:11 G 3461011.63 3461011.80 3461011.98 0.0072 0.0021

Venus 4763-11-16 23:16 G 3461029.37 3461029.47 3461029.57 0.3681 0.1282

Jupiter 4763-11-18 10:04 G 3461030.79 3461030.92 3461031.06 0.0540 0.0052

Pluto 4764-01-26 09:21 G 3461099.71 3461099.89 3461100.07 0.0072 0.0009

Pluto 4764-04-23 11:16 G 3461187.79 3461187.97 3461188.15 0.0072 0.0003

Pluto 4764-07-20 12:57 G 3461275.87 3461276.04 3461276.23 0.0072 0.0015

Pluto 4764-10-16 14:52 G 3461363.96 3461364.12 3461364.30 0.0072 0.0027

Pluto 4765-01-12 16:33 G 3461452.06 3461452.19 3461452.36 0.0071 0.0039

Pluto 4765-04-10 18:43 G 3461540.16 3461540.28 3461540.42 0.0071 0.0050

Pluto 4765-07-07 20:24 G 3461628.28 3461628.35 3461628.46 0.0071 0.0062

Mars 4766-02-25 17:45 G 3461861.08 3461861.24 3461861.40 0.1672 0.0436

Saturn 4766-10-05 16:33 G 3462083.13 3462083.19 3462083.26 0.0280 0.0249

Saturn 4767-01-02 05:31 G 3462171.61 3462171.73 3462171.85 0.0280 0.0132

Mars 4767-01-07 08:52 G 3462176.76 3462176.87 3462176.97 0.1848 0.0759

Saturn 4767-03-31 18:14 G 3462260.12 3462260.26 3462260.40 0.0281 0.0016

Saturn 4767-06-28 06:43 G 3462348.65 3462348.78 3462348.91 0.0282 0.0099

Saturn 4767-09-24 19:11 G 3462437.21 3462437.30 3462437.38 0.0282 0.0214

Earth 4768-12-09 09:07 G 3462878.82 3462878.88 3462878.95 0.2678 0.2190

Moon 4768-12-09 09:50 G 3462878.84 3462878.91 3462878.98 0.2682 0.2081 *

Venus 4769-06-01 16:04 G 3463053.09 3463053.17 3463053.24 0.3681 0.2573

Jupiter 4769-10-02 21:35 G 3463176.28 3463176.40 3463176.53 0.0487 0.0345

Jupiter 4769-12-31 22:48 G 3463266.31 3463266.45 3463266.59 0.0488 0.0292

Mars 4775-07-18 19:11 G 3465291.19 3465291.30 3465291.41 0.1667 0.1215

Jupiter 4775-09-06 13:11 G 3465340.92 3465341.05 3465341.18 0.0540 0.0114

Jupiter 4775-12-04 22:33 G 3465430.41 3465430.44 3465430.48 0.0539 0.0514

Mars 4776-05-29 17:31 G 3465607.11 3465607.23 3465607.34 0.1855 0.0091

Saturn 4780-10-28 00:57 G 3467219.43 3467219.54 3467219.66 0.0280 0.0201

Saturn 4781-01-24 20:24 G 3467308.18 3467308.35 3467308.52 0.0279 0.0060

Saturn 4781-04-23 15:50 G 3467397.00 3467397.16 3467397.33 0.0278 0.0082

Saturn 4781-07-21 11:45 G 3467485.89 3467485.99 3467486.10 0.0278 0.0225

Jupiter 4781-10-19 22:19 G 3467576.26 3467576.43 3467576.60 0.0488 0.0135

Earth 4781-12-12 03:21 G 3467629.53 3467629.64 3467629.74 0.2680 0.0760

Moon 4781-12-12 03:50 G 3467629.56 3467629.66 3467629.77 0.2677 0.0657 *

Mars 4785-10-20 01:55 G 3469037.47 3469037.58 3469037.69 0.1862 0.0621

Mars 4786-11-14 17:16 G 3469428.12 3469428.22 3469428.32 0.1685 0.1342

Jupiter 4787-06-25 15:21 G 3469651.03 3469651.14 3469651.25 0.0540 0.0293

Jupiter 4787-09-23 01:11 G 3469740.45 3469740.55 3469740.65 0.0539 0.0345

Moon 4791-06-10 13:11 G 3471096.90 3471097.05 3471097.20 0.2658 0.0522

Earth 4791-06-10 14:09 G 3471096.94 3471097.09 3471097.24 0.2652 0.0363 *

Uranus 4792-04-19 17:02 G 3471411.15 3471411.21 3471411.28 0.0134 0.0118

Uranus 4792-07-16 20:24 G 3471499.27 3471499.35 3471499.44 0.0134 0.0100

Uranus 4792-10-12 23:45 G 3471587.39 3471587.49 3471587.60 0.0135 0.0083

Uranus 4793-01-09 03:07 G 3471675.51 3471675.63 3471675.75 0.0135 0.0065

Uranus 4793-04-07 06:14 G 3471763.64 3471763.76 3471763.89 0.0135 0.0048

Uranus 4793-07-04 09:35 G 3471851.77 3471851.90 3471852.03 0.0135 0.0030

Jupiter 4793-08-07 21:21 G 3471886.22 3471886.39 3471886.57 0.0488 0.0026

Uranus 4793-09-30 12:57 G 3471939.90 3471940.04 3471940.17 0.0135 0.0013

Uranus 4793-12-27 16:04 G 3472028.04 3472028.17 3472028.31 0.0135 0.0005

Uranus 4794-03-25 19:26 G 3472116.17 3472116.31 3472116.44 0.0135 0.0022

Uranus 4794-06-21 22:33 G 3472204.31 3472204.44 3472204.57 0.0135 0.0040

Uranus 4794-09-18 01:40 G 3472292.45 3472292.57 3472292.70 0.0135 0.0057

Earth 4794-12-14 21:07 G 3472380.27 3472380.38 3472380.49 0.2681 0.0661

Moon 4794-12-14 21:35 G 3472380.29 3472380.40 3472380.51 0.2676 0.0669 *

Uranus 4794-12-15 04:48 G 3472380.60 3472380.70 3472380.82 0.0135 0.0074

Mars 4795-03-12 10:04 G 3472467.84 3472467.92 3472468.00 0.1869 0.1343

Uranus 4795-03-13 08:09 G 3472468.74 3472468.84 3472468.94 0.0135 0.0091

Uranus 4795-06-09 11:16 G 3472556.89 3472556.97 3472557.05 0.0135 0.0109

Uranus 4795-09-05 14:24 G 3472645.06 3472645.10 3472645.15 0.0135 0.0126

Saturn 4796-02-22 20:09 G 3472815.31 3472815.34 3472815.38 0.0280 0.0268

Mars 4796-04-05 17:31 G 3472858.08 3472858.23 3472858.39 0.1678 0.0487

Saturn 4796-05-21 09:07 G 3472903.77 3472903.88 3472904.00 0.0280 0.0151

Saturn 4796-08-17 21:50 G 3472992.28 3472992.41 3472992.55 0.0281 0.0035

Saturn 4796-11-14 10:33 G 3473080.81 3473080.94 3473081.07 0.0281 0.0081

Saturn 4797-02-10 23:02 G 3473169.36 3473169.46 3473169.55 0.0282 0.0195

Mars 4797-02-15 00:00 G 3473173.43 3473173.50 3473173.57 0.1841 0.1479

Jupiter 4799-04-13 18:14 G 3473961.19 3473961.26 3473961.33 0.0541 0.0459

Jupiter 4799-07-12 04:19 G 3474050.56 3474050.68 3474050.81 0.0540 0.0188

Venus 4803-11-08 18:14 G 3475631.18 3475631.26 3475631.34 0.3679 0.2328

Moon 4804-06-12 20:09 G 3475848.28 3475848.34 3475848.41 0.2657 0.2389

Earth 4804-06-12 20:09 G 3475848.28 3475848.34 3475848.40 0.2650 0.2416 *

Venus 4805-05-24 02:24 G 3476193.47 3476193.60 3476193.72 0.3691 0.1601

Jupiter 4805-05-26 19:55 G 3476196.17 3476196.33 3476196.49 0.0487 0.0193

Jupiter 4805-08-24 21:21 G 3476286.33 3476286.39 3476286.46 0.0488 0.0450

Mars 4805-08-26 18:28 G 3476288.11 3476288.27 3476288.43 0.1673 0.0339

Mars 4806-07-08 08:52 G 3476603.76 3476603.87 3476603.97 0.1848 0.0823

Moon 4807-12-17 14:38 G 3477131.04 3477131.11 3477131.18 0.2676 0.2068

Earth 4807-12-17 15:07 G 3477131.06 3477131.13 3477131.19 0.2683 0.2058 *

Venus 4809-05-24 11:16 G 3477654.87 3477654.97 3477655.08 0.3679 0.0954

Saturn 4810-03-17 02:38 G 3477951.51 3477951.61 3477951.71 0.0280 0.0228

Saturn 4810-06-13 21:50 G 3478040.25 3478040.41 3478040.57 0.0279 0.0089

Saturn 4810-09-10 17:16 G 3478129.05 3478129.22 3478129.39 0.0279 0.0053

Venus 4810-12-08 05:45 G 3478217.61 3478217.74 3478217.87 0.3690 0.1234

Saturn 4810-12-08 12:57 G 3478217.92 3478218.04 3478218.17 0.0278 0.0196

Jupiter 4811-04-30 07:55 G 3478360.70 3478360.83 3478360.97 0.0540 0.0040

Venus 4814-12-08 04:19 G 3479678.57 3479678.68 3479678.79 0.3680 0.0395

Earth 4814-12-10 14:09 G 3479681.01 3479681.09 3479681.17 0.2678 0.1887

Moon 4814-12-10 14:52 G 3479681.04 3479681.12 3479681.20 0.2681 0.1831 *

Mars 4815-01-16 19:40 G 3479718.20 3479718.32 3479718.44 0.1667 0.1137

Mars 4815-11-28 17:31 G 3480034.11 3480034.23 3480034.35 0.1855 0.0148

Jupiter 4817-03-14 19:26 G 3480506.19 3480506.31 3480506.43 0.0487 0.0347

Jupiter 4817-06-12 20:24 G 3480596.21 3480596.35 3480596.49 0.0488 0.0287

Venus 4820-06-22 21:07 G 3481702.29 3481702.38 3481702.47 0.3681 0.1703

Jupiter 4823-02-16 11:16 G 3482670.84 3482670.97 3482671.10 0.0540 0.0120

Jupiter	4823-05-16 20:52 G	3482760.33	3482760.37	3482760.41	0.0539	0.0511
Earth	4824-06-07 14:52 G	3483148.08	3483148.12	3483148.17	0.2654	0.2537
Mars	4825-04-20 01:55 G	3483464.47	3483464.58	3483464.69	0.1862	0.0551
Saturn	4825-10-08 10:33 G	3483635.84	3483635.94	3483636.05	0.0280	0.0188
Saturn	4826-01-04 23:16 G	3483724.34	3483724.47	3483724.61	0.0281	0.0073
Venus	4826-01-06 13:40 G	3483726.01	3483726.07	3483726.13	0.3682	0.2982
Saturn	4826-04-03 12:00 G	3483812.87	3483813.00	3483813.14	0.0281	0.0044
Mars	4826-05-15 17:45 G	3483855.15	3483855.24	3483855.33	0.1685	0.1428
Saturn	4826-07-01 00:28 G	3483901.41	3483901.52	3483901.64	0.0282	0.0159
Saturn	4826-09-27 12:57 G	3483990.00	3483990.04	3483990.07	0.0283	0.0272
Earth	4827-12-13 08:09 G	3484431.73	3484431.84	3484431.95	0.2680	0.0459
Moon	4827-12-13 08:52 G	3484431.76	3484431.87	3484431.98	0.2676	0.0366 *
Jupiter	4829-03-31 19:26 G	3484906.14	3484906.31	3484906.48	0.0488	0.0126
Uranus	4833-02-06 07:55 G	3486313.79	3486313.83	3486313.89	0.0144	0.0138
Uranus	4833-05-05 15:21 G	3486402.04	3486402.14	3486402.27	0.0144	0.0110
Uranus	4833-08-01 23:16 G	3486490.32	3486490.47	3486490.62	0.0144	0.0081
Uranus	4833-10-29 06:43 G	3486578.61	3486578.78	3486578.96	0.0144	0.0053
Uranus	4834-01-25 14:24 G	3486666.92	3486667.10	3486667.29	0.0143	0.0024
Uranus	4834-04-23 22:04 G	3486755.24	3486755.42	3486755.61	0.0143	0.0007
Uranus	4834-07-21 05:45 G	3486843.57	3486843.74	3486843.93	0.0143	0.0035
Mars	4834-09-10 10:04 G	3486894.84	3486894.92	3486895.01	0.1869	0.1274
Uranus	4834-10-17 13:40 G	3486931.90	3486932.07	3486932.24	0.0143	0.0063
Jupiter	4834-12-05 14:09 G	3486980.98	3486981.09	3486981.21	0.0540	0.0284
Uranus	4835-01-13 21:07 G	3487020.25	3487020.38	3487020.54	0.0143	0.0093
Jupiter	4835-03-05 00:00 G	3487070.41	3487070.50	3487070.60	0.0539	0.0354
Uranus	4835-04-12 05:02 G	3487108.63	3487108.71	3487108.82	0.0143	0.0122
Mars	4835-10-05 18:14 G	3487285.11	3487285.26	3487285.42	0.1679	0.0581
Mars	4836-08-16 00:00 G	3487600.44	3487600.50	3487600.56	0.1841	0.1543
Moon	4837-06-10 19:40 G	3487899.17	3487899.32	3487899.47	0.2658	0.0108
Earth	4837-06-10 20:38 G	3487899.20	3487899.36	3487899.51	0.2652	0.0171 *

Neptune 4837-10-24 22:33 G 3488035.40 3488035.44 3488035.50 0.0089 0.0083

Neptune 4838-01-21 00:14 G 3488123.45 3488123.51 3488123.59 0.0089 0.0076

Neptune 4838-04-19 01:55 G 3488211.50 3488211.58 3488211.68 0.0089 0.0068

Neptune 4838-07-16 03:35 G 3488299.55 3488299.65 3488299.76 0.0089 0.0061

Neptune 4838-10-12 05:16 G 3488387.61 3488387.72 3488387.84 0.0089 0.0053

Neptune 4839-01-08 06:43 G 3488475.67 3488475.78 3488475.91 0.0089 0.0046

Neptune 4839-04-06 08:24 G 3488563.73 3488563.85 3488563.98 0.0089 0.0039

Neptune 4839-07-03 10:04 G 3488651.79 3488651.92 3488652.05 0.0089 0.0031

Saturn 4839-08-04 02:38 G 3488683.57 3488683.61 3488683.66 0.0280 0.0268

Neptune 4839-09-29 11:31 G 3488739.85 3488739.98 3488740.12 0.0089 0.0024

Saturn 4839-10-31 21:35 G 3488772.25 3488772.40 3488772.56 0.0279 0.0130

Neptune 4839-12-26 13:11 G 3488827.92 3488828.05 3488828.19 0.0089 0.0017

Saturn 4840-01-28 17:02 G 3488861.04 3488861.21 3488861.39 0.0279 0.0013

Neptune 4840-03-23 14:52 G 3488915.98 3488916.12 3488916.26 0.0089 0.0009

Saturn 4840-04-26 12:43 G 3488949.89 3488950.03 3488950.18 0.0278 0.0154

Neptune 4840-06-19 16:19 G 3489004.04 3489004.18 3489004.32 0.0089 0.0003

Neptune 4840-09-15 18:00 G 3489092.11 3489092.25 3489092.39 0.0089 0.0005

Neptune 4840-12-12 19:26 G 3489180.17 3489180.31 3489180.45 0.0089 0.0012

Earth 4840-12-15 01:55 G 3489182.48 3489182.58 3489182.69 0.2682 0.0959

Moon 4840-12-15 02:09 G 3489182.49 3489182.59 3489182.70 0.2676 0.1005 *

Jupiter 4841-01-17 18:57 G 3489216.12 3489216.29 3489216.47 0.0488 0.0030

Neptune 4841-03-10 21:07 G 3489268.24 3489268.38 3489268.51 0.0089 0.0020

Neptune 4841-06-06 22:33 G 3489356.31 3489356.44 3489356.57 0.0089 0.0027

Neptune 4841-09-03 00:00 G 3489444.38 3489444.50 3489444.63 0.0089 0.0034

Neptune 4841-11-30 01:26 G 3489532.45 3489532.56 3489532.69 0.0089 0.0041

Neptune 4842-02-26 02:52 G 3489620.52 3489620.62 3489620.75 0.0089 0.0049

Neptune 4842-05-25 04:33 G 3489708.59 3489708.69 3489708.80 0.0089 0.0055

Neptune 4842-08-21 06:00 G 3489796.66 3489796.75 3489796.86 0.0089 0.0063

Neptune 4842-11-17 07:26 G 3489884.74 3489884.81 3489884.91 0.0089 0.0070

Neptune 4843-02-13 09:07 G 3489972.82 3489972.88 3489972.95 0.0089 0.0077

Neptune 4843-05-12 10:33 G 3490060.90 3490060.94 3490060.99 0.0089 0.0084

Mars 4845-02-24 19:11 G 3490715.14 3490715.30 3490715.46 0.1673 0.0249

Mars 4846-01-06 08:52 G 3491030.77 3491030.87 3491030.97 0.1848 0.0890

Jupiter 4846-09-23 16:19 G 3491291.11 3491291.18 3491291.25 0.0540 0.0464

Jupiter 4846-12-22 02:38 G 3491380.48 3491380.61 3491380.73 0.0539 0.0183

Jupiter 4852-11-05 18:14 G 3493526.10 3493526.26 3493526.42 0.0487 0.0188

Jupiter 4853-02-03 19:55 G 3493616.27 3493616.33 3493616.39 0.0488 0.0456

Moon 4853-12-17 19:40 G 3493933.26 3493933.32 3493933.37 0.2677 0.2254

Earth 4853-12-17 19:55 G 3493933.28 3493933.33 3493933.38 0.2683 0.2353 *

Mars 4854-07-17 20:24 G 3494145.23 3494145.35 3494145.48 0.1667 0.1040

Venus 4854-11-29 22:48 G 3494280.41 3494280.45 3494280.50 0.3678 0.3283

Saturn 4855-02-25 14:09 G 3494368.00 3494368.09 3494368.18 0.0280 0.0208

Saturn 4855-05-25 02:52 G 3494456.49 3494456.62 3494456.76 0.0281 0.0092

Mars 4855-05-29 17:31 G 3494461.11 3494461.23 3494461.35 0.1855 0.0213

Saturn 4855-08-21 15:35 G 3494545.02 3494545.15 3494545.29 0.0281 0.0026

Saturn 4855-11-18 04:04 G 3494633.56 3494633.67 3494633.79 0.0282 0.0140

Saturn 4856-02-14 16:19 G 3494722.13 3494722.18 3494722.25 0.0282 0.0254

Venus 4856-06-14 00:00 G 3494842.45 3494842.50 3494842.55 0.3692 0.3443

Jupiter 4858-10-10 05:45 G 3495690.60 3495690.74 3495690.87 0.0540 0.0029

Venus 4860-06-14 16:04 G 3496304.08 3496304.17 3496304.27 0.3679 0.1879

Earth 4860-12-10 18:57 G 3496483.20 3496483.29 3496483.38 0.2678 0.1591

Moon 4860-12-10 19:40 G 3496483.23 3496483.32 3496483.41 0.2679 0.1438 *

Venus 4861-12-29 02:52 G 3496866.48 3496866.62 3496866.76 0.3691 0.0740

Jupiter 4864-08-24 17:02 G 3497836.09 3497836.21 3497836.33 0.0487 0.0352

Mars 4864-10-19 01:55 G 3497891.47 3497891.58 3497891.69 0.1862 0.0486

Jupiter 4864-11-22 18:00 G 3497926.11 3497926.25 3497926.39 0.0488 0.0282

Mars 4865-11-13 18:28 G 3498282.21 3498282.27 3498282.34 0.1685 0.1529

Venus 4865-12-29 09:07 G 3498327.78 3498327.88 3498327.99 0.3680 0.0531

Venus 4867-07-15 06:28 G 3498890.66 3498890.77 3498890.89 0.3690 0.2140

Saturn 4869-03-19 23:31 G 3499504.34 3499504.48 3499504.63 0.0280 0.0154

Saturn	4869-06-16 18:57 G	3499593.12	3499593.29	3499593.46	0.0279	0.0014
Saturn	4869-09-13 14:24 G	3499681.95	3499682.10	3499682.26	0.0278	0.0128
Saturn	4869-12-11 10:19 G	3499770.90	3499770.93	3499770.97	0.0278	0.0272
Moon	4870-06-08 19:55 G	3499950.24	3499950.33	3499950.43	0.2658	0.2079
Earth	4870-06-08 21:21 G	3499950.29	3499950.39	3499950.49	0.2654	0.2010 *
Jupiter	4870-07-29 09:07 G	3500000.75	3500000.88	3500001.01	0.0541	0.0133
Jupiter	4870-10-26 18:43 G	3500090.23	3500090.28	3500090.32	0.0539	0.0499
Venus	4871-07-15 02:09 G	3500351.48	3500351.59	3500351.69	0.3680	0.0823
Earth	4873-12-13 12:57 G	3501233.93	3501234.04	3501234.15	0.2680	0.0163
Moon	4873-12-13 13:40 G	3501233.96	3501234.07	3501234.18	0.2677	0.0123 *
Mars	4874-03-11 10:19 G	3501321.84	3501321.93	3501322.02	0.1868	0.1195
Mars	4875-04-05 18:57 G	3501712.14	3501712.29	3501712.44	0.1679	0.0668
Uranus	4876-02-11 20:38 G	3502024.34	3502024.36	3502024.38	0.0134	0.0132
Mars	4876-02-15 00:00 G	3502027.45	3502027.50	3502027.56	0.1841	0.1613
Uranus	4876-05-10 00:00 G	3502112.43	3502112.50	3502112.57	0.0134	0.0115
Uranus	4876-08-06 03:07 G	3502200.55	3502200.63	3502200.74	0.0135	0.0098
Jupiter	4876-09-10 17:02 G	3502236.04	3502236.21	3502236.38	0.0487	0.0121
Uranus	4876-11-02 06:43 G	3502288.67	3502288.78	3502288.89	0.0135	0.0080
Venus	4877-01-27 18:57 G	3502375.20	3502375.29	3502375.37	0.3681	0.2121
Uranus	4877-01-29 09:50 G	3502376.80	3502376.91	3502377.04	0.0135	0.0062
Uranus	4877-04-27 13:11 G	3502464.93	3502465.05	3502465.18	0.0135	0.0045
Uranus	4877-07-24 16:33 G	3502553.06	3502553.19	3502553.32	0.0135	0.0027
Uranus	4877-10-20 19:40 G	3502641.19	3502641.32	3502641.46	0.0135	0.0011
Uranus	4878-01-16 23:02 G	3502729.33	3502729.46	3502729.60	0.0135	0.0008
Uranus	4878-04-15 02:09 G	3502817.46	3502817.59	3502817.73	0.0135	0.0026
Uranus	4878-07-12 05:31 G	3502905.60	3502905.73	3502905.86	0.0135	0.0042
Uranus	4878-10-08 08:38 G	3502993.74	3502993.86	3502993.98	0.0135	0.0060
Uranus	4879-01-04 11:45 G	3503081.89	3503081.99	3503082.11	0.0135	0.0077
Uranus	4879-04-02 14:52 G	3503170.03	3503170.12	3503170.22	0.0135	0.0095
Uranus	4879-06-29 18:14 G	3503258.19	3503258.26	3503258.34	0.0135	0.0112

Uranus 4879-09-25 21:21 G 3503346.36 3503346.39 3503346.43 0.0135 0.0129

Jupiter 4882-05-17 12:28 G 3504310.91 3504311.02 3504311.13 0.0540 0.0290

Venus 4882-08-13 11:31 G 3504398.94 3504398.98 3504399.02 0.3682 0.3378

Jupiter 4882-08-14 22:19 G 3504400.33 3504400.43 3504400.53 0.0540 0.0350

Moon 4883-06-12 02:24 G 3504701.45 3504701.60 3504701.75 0.2658 0.0556

Earth 4883-06-12 03:07 G 3504701.48 3504701.63 3504701.78 0.2652 0.0717 *

Saturn 4884-07-14 15:35 G 3505100.08 3505100.15 3505100.21 0.0279 0.0246

Mars 4884-08-25 19:40 G 3505142.16 3505142.32 3505142.49 0.1673 0.0163

Saturn 4884-10-11 04:19 G 3505188.56 3505188.68 3505188.81 0.0280 0.0130

Saturn 4885-01-07 17:02 G 3505277.08 3505277.21 3505277.35 0.0281 0.0016

Saturn 4885-04-06 05:45 G 3505365.61 3505365.74 3505365.87 0.0281 0.0102

Saturn 4885-07-03 18:00 G 3505454.17 3505454.25 3505454.34 0.0282 0.0216

Mars 4885-07-07 08:52 G 3505457.78 3505457.87 3505457.97 0.1848 0.0963

Moon 4886-12-16 06:57 G 3505984.69 3505984.79 3505984.89 0.2675 0.1255

Earth 4886-12-16 06:57 G 3505984.69 3505984.79 3505984.88 0.2682 0.1254 *

Jupiter 4888-06-29 16:19 G 3506546.00 3506546.18 3506546.35 0.0488 0.0039

Moon 4893-12-09 06:14 G 3508534.74 3508534.76 3508534.78 0.2682 0.2605

Mars 4894-01-15 21:07 G 3508572.25 3508572.38 3508572.51 0.1667 0.0954

Jupiter 4894-03-05 15:21 G 3508621.07 3508621.14 3508621.21 0.0540 0.0454

Jupiter 4894-06-03 01:26 G 3508710.44 3508710.56 3508710.69 0.0540 0.0193

Mars 4894-11-27 17:31 G 3508888.11 3508888.23 3508888.34 0.1855 0.0278

Saturn 4898-08-06 23:16 G 3510236.35 3510236.47 3510236.59 0.0280 0.0197

Saturn 4898-11-03 18:28 G 3510325.10 3510325.27 3510325.44 0.0279 0.0057

Saturn 4899-01-31 13:55 G 3510413.92 3510414.08 3510414.25 0.0278 0.0085

Saturn 4899-04-30 09:35 G 3510502.81 3510502.90 3510503.01 0.0278 0.0228

Moon 4899-12-19 00:14 G 3510735.49 3510735.51 3510735.53 0.2678 0.2617

Earth 4899-12-19 00:43 G 3510735.51 3510735.53 3510735.54 0.2683 0.2642 *

Jupiter 4900-04-18 15:50 G 3510856.00 3510856.16 3510856.32 0.0487 0.0192

Jupiter 4900-07-17 17:16 G 3510946.16 3510946.22 3510946.29 0.0488 0.0453

Mars 4904-04-20 02:09 G 3512318.47 3512318.59 3512318.70 0.1862 0.0416

Mars 4905-05-15 19:11 G 3512709.27 3512709.30 3512709.34 0.1685 0.1628

Jupiter 4906-03-23 03:50 G 3513020.53 3513020.66 3513020.80 0.0540 0.0027

Earth 4906-12-12 23:45 G 3513285.40 3513285.49 3513285.59 0.2679 0.1292

Moon 4906-12-13 00:28 G 3513285.43 3513285.52 3513285.62 0.2678 0.1252 *

Venus 4911-07-07 20:52 G 3514953.30 3514953.37 3514953.44 0.3678 0.2819

Jupiter 4912-02-05 15:21 G 3515166.02 3515166.14 3515166.26 0.0487 0.0348

Jupiter 4912-05-05 16:19 G 3515256.04 3515256.18 3515256.33 0.0488 0.0288

Venus 4913-01-20 00:28 G 3515515.42 3515515.52 3515515.61 0.3692 0.2623

Mars 4913-09-10 10:19 G 3515748.83 3515748.93 3515749.02 0.1868 0.1137

Saturn 4913-12-02 18:43 G 3515832.24 3515832.28 3515832.32 0.0280 0.0268

Saturn 4914-03-01 07:40 G 3515920.70 3515920.82 3515920.94 0.0280 0.0151

Saturn 4914-05-28 20:24 G 3516009.22 3516009.35 3516009.49 0.0281 0.0036

Saturn 4914-08-25 09:07 G 3516097.75 3516097.88 3516098.01 0.0282 0.0081

Mars 4914-10-05 19:40 G 3516139.17 3516139.32 3516139.47 0.1679 0.0766

Saturn 4914-11-21 21:35 G 3516186.30 3516186.40 3516186.50 0.0282 0.0195

Mars 4915-08-17 00:00 G 3516454.46 3516454.50 3516454.55 0.1841 0.1676

Moon 4916-06-10 02:38 G 3516752.49 3516752.61 3516752.72 0.2658 0.1740

Earth 4916-06-10 03:50 G 3516752.53 3516752.66 3516752.79 0.2653 0.1468 *

Venus 4917-01-20 14:09 G 3516976.99 3516977.09 3516977.19 0.3679 0.1433

Uranus 4917-02-27 14:38 G 3517015.05 3517015.11 3517015.18 0.0144 0.0133

Uranus 4917-05-26 22:19 G 3517103.31 3517103.43 3517103.56 0.0144 0.0105

Uranus 4917-08-23 05:45 G 3517191.59 3517191.74 3517191.90 0.0144 0.0077

Uranus 4917-11-19 13:26 G 3517279.89 3517280.06 3517280.24 0.0144 0.0048

Jupiter 4918-01-09 06:57 G 3517330.66 3517330.79 3517330.92 0.0540 0.0145

Uranus 4918-02-15 21:07 G 3517368.20 3517368.38 3517368.57 0.0143 0.0019

Jupiter 4918-04-08 16:33 G 3517420.13 3517420.19 3517420.24 0.0539 0.0487

Uranus 4918-05-15 04:48 G 3517456.52 3517456.70 3517456.89 0.0143 0.0010

Venus 4918-08-06 03:35 G 3517539.51 3517539.65 3517539.79 0.3691 0.0149

Uranus 4918-08-11 12:28 G 3517544.84 3517545.02 3517545.20 0.0143 0.0039

Uranus 4918-11-07 20:09 G 3517633.18 3517633.34 3517633.51 0.0143 0.0068

Uranus 4919-02-04 03:50 G 3517721.54 3517721.66 3517721.81 0.0143 0.0097

Uranus 4919-05-03 11:45 G 3517809.91 3517809.99 3517810.09 0.0143 0.0126

Earth 4919-12-15 17:45 G 3518036.13 3518036.24 3518036.35 0.2680 0.0137

Moon 4919-12-15 18:14 G 3518036.15 3518036.26 3518036.38 0.2676 0.0261 *

Neptune 4920-04-12 22:19 G 3518155.37 3518155.43 3518155.50 0.0088 0.0081

Neptune 4920-07-10 00:57 G 3518243.45 3518243.54 3518243.65 0.0088 0.0073

Neptune 4920-10-06 03:50 G 3518331.55 3518331.66 3518331.79 0.0088 0.0064

Neptune 4921-01-02 06:57 G 3518419.65 3518419.79 3518419.93 0.0088 0.0055

Neptune 4921-03-31 09:35 G 3518507.76 3518507.90 3518508.06 0.0088 0.0047

Neptune 4921-06-27 12:28 G 3518595.87 3518596.02 3518596.20 0.0088 0.0038

Neptune 4921-09-23 15:35 G 3518683.99 3518684.15 3518684.32 0.0088 0.0029

Neptune 4921-12-20 18:43 G 3518772.10 3518772.28 3518772.45 0.0088 0.0020

Neptune 4922-03-18 21:35 G 3518860.22 3518860.40 3518860.58 0.0088 0.0011

Neptune 4922-06-15 00:28 G 3518948.34 3518948.52 3518948.71 0.0088 0.0003

Venus 4922-08-06 06:57 G 3519000.69 3519000.79 3519000.90 0.3680 0.0156

Neptune 4922-09-11 03:35 G 3519036.47 3519036.65 3519036.83 0.0088 0.0007

Neptune 4922-12-08 06:28 G 3519124.59 3519124.77 3519124.95 0.0088 0.0016

Mars 4923-01-31 18:28 G 3519179.26 3519179.27 3519179.27 0.1875 0.1868

Neptune 4923-03-06 09:21 G 3519212.72 3519212.89 3519213.07 0.0088 0.0025

Neptune 4923-06-02 12:14 G 3519300.86 3519301.01 3519301.19 0.0088 0.0034

Neptune 4923-08-29 15:21 G 3519388.99 3519389.14 3519389.31 0.0088 0.0043

Neptune 4923-11-25 18:14 G 3519477.13 3519477.26 3519477.42 0.0088 0.0052

Venus 4924-02-20 07:11 G 3519563.72 3519563.80 3519563.88 0.3690 0.3042

Neptune 4924-02-21 21:21 G 3519565.27 3519565.39 3519565.53 0.0088 0.0061

Jupiter 4924-02-22 14:38 G 3519565.94 3519566.11 3519566.28 0.0487 0.0116

Mars 4924-02-25 20:24 G 3519569.19 3519569.35 3519569.51 0.1673 0.0069

Neptune 4924-05-20 00:28 G 3519653.42 3519653.52 3519653.64 0.0088 0.0070

Neptune 4924-08-16 03:35 G 3519741.58 3519741.65 3519741.73 0.0088 0.0079

Mars 4925-01-06 08:52 G 3519884.77 3519884.87 3519884.97 0.1848 0.1020

Pluto 4925-10-10 06:57 G 3520161.78 3520161.79 3520161.83 0.0071 0.0069

Pluto	4926-01-06 07:55 G	3520249.77	3520249.83	3520249.91	0.0071	0.0060
Pluto	4926-04-04 08:52 G	3520337.78	3520337.87	3520337.97	0.0071	0.0052
Pluto	4926-07-01 09:21 G	3520425.80	3520425.89	3520426.02	0.0071	0.0043
Pluto	4926-09-27 10:33 G	3520513.82	3520513.94	3520514.06	0.0071	0.0034
Pluto	4926-12-24 11:16 G	3520601.84	3520601.97	3520602.10	0.0072	0.0025
Pluto	4927-03-22 12:14 G	3520689.87	3520690.01	3520690.14	0.0072	0.0016
Pluto	4927-06-18 12:57 G	3520777.91	3520778.04	3520778.18	0.0072	0.0007
Pluto	4927-09-14 13:55 G	3520865.94	3520866.08	3520866.22	0.0072	0.0002
Pluto	4927-12-11 14:38 G	3520953.98	3520954.11	3520954.25	0.0072	0.0012
Saturn	4927-12-26 01:26 G	3520968.46	3520968.56	3520968.66	0.0280	0.0220
Venus	4928-02-20 00:00 G	3521024.40	3521024.50	3521024.60	0.3681	0.1247
Pluto	4928-03-08 15:35 G	3521042.02	3521042.15	3521042.29	0.0072	0.0021
Saturn	4928-03-23 20:38 G	3521057.19	3521057.36	3521057.52	0.0279	0.0081
Pluto	4928-06-04 16:19 G	3521130.06	3521130.18	3521130.31	0.0072	0.0031
Saturn	4928-06-20 16:04 G	3521146.00	3521146.17	3521146.34	0.0279	0.0060
Pluto	4928-08-31 17:02 G	3521218.11	3521218.21	3521218.34	0.0072	0.0041
Saturn	4928-09-17 11:45 G	3521234.87	3521234.99	3521235.11	0.0278	0.0202
Pluto	4928-11-27 18:00 G	3521306.16	3521306.25	3521306.36	0.0073	0.0050
Pluto	4929-02-23 18:43 G	3521394.22	3521394.28	3521394.38	0.0073	0.0060
Pluto	4929-05-22 19:55 G	3521482.30	3521482.33	3521482.38	0.0073	0.0069
Moon	4929-06-13 09:07 G	3521503.75	3521503.88	3521504.02	0.2658	0.1303
Earth	4929-06-13 09:35 G	3521503.76	3521503.90	3521504.04	0.2652	0.1261 *
Jupiter	4929-10-28 10:04 G	3521640.82	3521640.92	3521641.03	0.0541	0.0303
Jupiter	4930-01-25 20:09 G	3521730.24	3521730.34	3521730.44	0.0540	0.0339
Moon	4932-12-17 11:45 G	3522786.90	3522786.99	3522787.08	0.2675	0.1519
Earth	4932-12-17 11:45 G	3522786.90	3522786.99	3522787.08	0.2682	0.1542 *
Mars	4933-07-17 21:35 G	3522999.26	3522999.40	3522999.54	0.1667	0.0871
Venus	4933-09-04 16:33 G	3523048.12	3523048.19	3523048.27	0.3682	0.2522
Mars	4934-05-29 17:45 G	3523315.12	3523315.24	3523315.35	0.1855	0.0357
Jupiter	4935-12-11 14:09 G	3523875.91	3523876.09	3523876.26	0.0487	0.0044

Earth	**4939-12-11 10:33**	**G**	**3525336.90**	**3525336.94**	**3525336.99**	**0.2677**	**0.2431**
Moon	**4939-12-11 11:16**	**G**	**3525336.92**	**3525336.97**	**3525337.01**	**0.2681**	**0.2410** *
Jupiter	**4941-08-16 13:26**	**G**	**3525950.99**	**3525951.06**	**3525951.13**	**0.0541**	**0.0460**
Jupiter	**4941-11-13 23:45**	**G**	**3526040.37**	**3526040.49**	**3526040.61**	**0.0540**	**0.0188**
Mars	**4942-12-07 23:16**	**G**	**3526429.45**	**3526429.47**	**3526429.50**	**0.1662**	**0.1635**
Saturn	**4943-07-19 09:07**	**G**	**3526652.78**	**3526652.88**	**3526652.98**	**0.0280**	**0.0189**
Saturn	**4943-10-15 21:50**	**G**	**3526741.28**	**3526741.41**	**3526741.55**	**0.0280**	**0.0073**
Mars	**4943-10-20 02:09**	**G**	**3526745.47**	**3526745.59**	**3526745.70**	**0.1861**	**0.0351**
Saturn	**4944-01-12 10:33**	**G**	**3526829.80**	**3526829.94**	**3526830.08**	**0.0281**	**0.0043**
Saturn	**4944-04-09 23:02**	**G**	**3526918.35**	**3526918.46**	**3526918.58**	**0.0282**	**0.0157**
Saturn	**4944-07-07 11:16**	**G**	**3527006.94**	**3527006.97**	**3527007.01**	**0.0282**	**0.0270**
Jupiter	**4947-09-29 13:26**	**G**	**3528185.90**	**3528186.06**	**3528186.22**	**0.0487**	**0.0199**
Jupiter	**4947-12-28 14:52**	**G**	**3528276.05**	**3528276.12**	**3528276.19**	**0.0488**	**0.0443**
Earth	**4952-12-13 04:48**	**G**	**3530087.59**	**3530087.70**	**3530087.80**	**0.2679**	**0.0997**
Moon	**4952-12-13 05:31**	**G**	**3530087.62**	**3530087.73**	**3530087.83**	**0.2678**	**0.0820** *
Mars	**4953-03-11 10:19**	**G**	**3530175.84**	**3530175.93**	**3530176.03**	**0.1868**	**0.1061**
Jupiter	**4953-09-02 02:52**	**G**	**3530350.49**	**3530350.62**	**3530350.76**	**0.0540**	**0.0032**
Mars	**4954-04-05 20:24**	**G**	**3530566.21**	**3530566.35**	**3530566.49**	**0.1679**	**0.0860**
Mars	**4955-02-15 00:00**	**G**	**3530881.47**	**3530881.50**	**3530881.54**	**0.1841**	**0.1742**
Saturn	**4957-05-14 00:14**	**G**	**3531700.47**	**3531700.51**	**3531700.57**	**0.0280**	**0.0268**
Saturn	**4957-08-10 19:26**	**G**	**3531789.17**	**3531789.31**	**3531789.47**	**0.0280**	**0.0129**
Saturn	**4957-11-07 14:52**	**G**	**3531877.95**	**3531878.12**	**3531878.30**	**0.0279**	**0.0014**
Saturn	**4958-02-04 10:33**	**G**	**3531966.80**	**3531966.94**	**3531967.09**	**0.0278**	**0.0155**
Jupiter	**4959-07-18 13:11**	**G**	**3532495.93**	**3532496.05**	**3532496.17**	**0.0487**	**0.0350**
Jupiter	**4959-10-16 13:55**	**G**	**3532585.94**	**3532586.08**	**3532586.23**	**0.0488**	**0.0285**
Uranus	**4960-03-04 03:35**	**G**	**3532725.62**	**3532725.65**	**3532725.68**	**0.0134**	**0.0130**
Uranus	**4960-05-31 06:43**	**G**	**3532813.71**	**3532813.78**	**3532813.86**	**0.0135**	**0.0112**
Uranus	**4960-08-27 10:04**	**G**	**3532901.83**	**3532901.92**	**3532902.02**	**0.0135**	**0.0095**
Uranus	**4960-11-23 13:26**	**G**	**3532989.95**	**3532990.06**	**3532990.18**	**0.0135**	**0.0077**
Uranus	**4961-02-19 16:48**	**G**	**3533078.08**	**3533078.20**	**3533078.32**	**0.0135**	**0.0060**

Uranus	4961-05-18 20:09 G	3533166.21	3533166.34	3533166.47	0.0135	0.0042
Uranus	4961-08-14 23:16 G	3533254.34	3533254.47	3533254.61	0.0135	0.0025
Uranus	4961-11-11 02:38 G	3533342.48	3533342.61	3533342.75	0.0135	0.0007
Uranus	4962-02-07 06:00 G	3533430.61	3533430.75	3533430.88	0.0135	0.0011
Uranus	4962-05-06 09:07 G	3533518.75	3533518.88	3533519.01	0.0135	0.0028
Moon	4962-06-11 09:07 G	3533554.74	3533554.88	3533555.02	0.2658	0.1008
Earth	4962-06-11 10:19 G	3533554.79	3533554.93	3533555.07	0.2653	0.0938 *
Mars	4962-08-01 18:28 G	3533606.24	3533606.27	3533606.30	0.1875	0.1803
Uranus	4962-08-02 12:14 G	3533606.89	3533607.01	3533607.14	0.0135	0.0046
Uranus	4962-10-29 15:35 G	3533695.03	3533695.15	3533695.27	0.0135	0.0063
Uranus	4963-01-25 18:43 G	3533783.18	3533783.28	3533783.39	0.0135	0.0080
Uranus	4963-04-23 21:50 G	3533871.33	3533871.41	3533871.51	0.0135	0.0097
Uranus	4963-07-21 00:57 G	3533959.48	3533959.54	3533959.62	0.0135	0.0115
Mars	4963-08-26 21:07 G	3533996.22	3533996.38	3533996.54	0.1673	0.0026
Uranus	4963-10-17 04:19 G	3534047.65	3534047.68	3534047.71	0.0136	0.0132
Mars	4964-07-07 08:52 G	3534311.78	3534311.87	3534311.97	0.1848	0.1094
Jupiter	4965-06-21 05:16 G	3534660.60	3534660.72	3534660.85	0.0540	0.0145
Jupiter	4965-09-18 14:52 G	3534750.07	3534750.12	3534750.18	0.0539	0.0487
Earth	4965-12-15 22:33 G	3534838.33	3534838.44	3534838.55	0.2680	0.0438
Moon	4965-12-15 23:02 G	3534838.35	3534838.46	3534838.57	0.2675	0.0435 *
Venus	4968-02-11 18:43 G	3535626.20	3535626.28	3535626.37	0.3679	0.2366
Venus	4969-08-27 00:57 G	3536188.42	3536188.54	3536188.66	0.3691	0.1790
Jupiter	4971-08-04 13:11 G	3536895.88	3536896.05	3536896.22	0.0488	0.0123
Saturn	4972-12-05 12:00 G	3537384.91	3537385.00	3537385.09	0.0280	0.0214
Mars	4973-01-15 22:19 G	3537426.29	3537426.43	3537426.57	0.1667	0.0776
Saturn	4973-03-04 00:57 G	3537473.41	3537473.54	3537473.67	0.0281	0.0097
Saturn	4973-05-31 13:40 G	3537561.93	3537562.07	3537562.21	0.0281	0.0019
Venus	4973-08-27 12:00 G	3537649.89	3537650.00	3537650.10	0.3680	0.1005
Saturn	4973-08-28 02:09 G	3537650.47	3537650.59	3537650.71	0.0282	0.0134
Saturn	4973-11-24 14:24 G	3537739.04	3537739.10	3537739.17	0.0283	0.0248

Mars 4973-11-27 17:31 G 3537742.12 3537742.23 3537742.35 0.1855 0.0416

Venus 4975-03-13 04:04 G 3538212.53 3538212.67 3538212.81 0.3690 0.0991

Moon 4975-06-14 16:04 G 3538306.06 3538306.17 3538306.29 0.2658 0.1720

Earth 4975-06-14 16:04 G 3538306.06 3538306.17 3538306.28 0.2651 0.1820 *

Jupiter 4977-04-09 08:09 G 3538970.73 3538970.84 3538970.95 0.0540 0.0310

Jupiter 4977-07-07 18:14 G 3539060.15 3539060.26 3539060.36 0.0539 0.0330

Moon 4978-12-18 16:33 G 3539589.11 3539589.19 3539589.27 0.2675 0.1848

Earth 4978-12-18 16:33 G 3539589.11 3539589.19 3539589.27 0.2682 0.1832 *

Venus 4979-03-13 04:48 G 3539673.60 3539673.70 3539673.81 0.3680 0.0377

Mars 4982-06-08 00:00 G 3540856.44 3540856.50 3540856.55 0.1662 0.1549

Mars 4983-04-20 02:09 G 3541172.47 3541172.59 3541172.71 0.1862 0.0275

Jupiter 4983-05-23 11:45 G 3541205.82 3541205.99 3541206.16 0.0487 0.0045

Venus 4984-09-25 21:35 G 3541697.31 3541697.40 3541697.50 0.3681 0.1656

Earth 4985-12-11 15:35 G 3542139.08 3542139.15 3542139.21 0.2677 0.2133

Moon 4985-12-11 16:04 G 3542139.10 3542139.17 3542139.25 0.2680 0.2004 *

Saturn 4986-12-28 21:35 G 3542521.26 3542521.40 3542521.55 0.0280 0.0152

Saturn 4987-03-27 17:02 G 3542610.04 3542610.21 3542610.38 0.0279 0.0012

Saturn 4987-06-24 12:28 G 3542698.87 3542699.02 3542699.18 0.0278 0.0130

Saturn 4987-09-21 08:24 G 3542787.83 3542787.85 3542787.88 0.0278 0.0273

Jupiter 4989-01-26 11:16 G 3543280.91 3543280.97 3543281.03 0.0541 0.0472

Jupiter 4989-04-25 21:35 G 3543370.28 3543370.40 3543370.53 0.0540 0.0178

Venus 4990-04-11 14:24 G 3543721.03 3543721.10 3543721.16 0.3682 0.2927

Mars 4992-09-09 10:33 G 3544602.84 3544602.94 3544603.04 0.1868 0.0989

Mars 4993-10-04 20:52 G 3544993.23 3544993.37 3544993.51 0.1679 0.0946

Mars 4994-08-16 00:00 G 3545308.49 3545308.50 3545308.52 0.1841 0.1810

Jupiter 4995-03-11 11:16 G 3545515.81 3545515.97 3545516.13 0.0487 0.0199

Jupiter 4995-06-09 12:28 G 3545605.96 3545606.02 3545606.10 0.0488 0.0442

Earth 4998-12-14 09:35 G 3546889.79 3546889.90 3546890.00 0.2679 0.0696

Moon 4998-12-14 10:19 G 3546889.82 3546889.93 3546890.04 0.2678 0.0655 *

6TH MILLENNIUM CE

This is a list of transits of Mercury in the 6th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**5001-02-13 01:11**	**G**	**3547680.42**	**3547680.55**	**3547680.68**	**0.0540**	**0.0027**	
Uranus	**5001-03-20 21:50**	**G**	**3547716.33**	**3547716.41**	**3547716.49**	**0.0144**	**0.0127**	
Uranus	**5001-06-17 05:16**	**G**	**3547804.59**	**3547804.72**	**3547804.86**	**0.0144**	**0.0099**	
Uranus	**5001-09-13 12:43**	**G**	**3547892.88**	**3547893.03**	**3547893.20**	**0.0144**	**0.0071**	
Uranus	**5001-12-10 20:24**	**G**	**3547981.18**	**3547981.35**	**3547981.53**	**0.0144**	**0.0042**	
Mars	**5002-01-31 18:28**	**G**	**3548033.23**	**3548033.27**	**3548033.31**	**0.1874**	**0.1730**	
Uranus	**5002-03-09 04:04**	**G**	**3548069.49**	**3548069.67**	**3548069.86**	**0.0143**	**0.0013**	
Saturn	**5002-04-25 13:11**	**G**	**3548117.00**	**3548117.05**	**3548117.12**	**0.0279**	**0.0252**	
Neptune	**5002-04-26 20:52**	**G**	**3548118.35**	**3548118.37**	**3548118.41**	**0.0089**	**0.0087**	
Uranus	**5002-06-05 11:45**	**G**	**3548157.81**	**3548157.99**	**3548158.18**	**0.0143**	**0.0016**	
Saturn	**5002-07-23 02:09**	**G**	**3548205.47**	**3548205.59**	**3548205.72**	**0.0280**	**0.0136**	
Neptune	**5002-07-23 22:33**	**G**	**3548206.39**	**3548206.44**	**3548206.51**	**0.0089**	**0.0079**	
Uranus	**5002-09-01 19:26**	**G**	**3548246.14**	**3548246.31**	**3548246.49**	**0.0143**	**0.0045**	
Saturn	**5002-10-19 15:07**	**G**	**3548293.99**	**3548294.13**	**3548294.27**	**0.0280**	**0.0021**	
Neptune	**5002-10-20 00:14**	**G**	**3548294.44**	**3548294.51**	**3548294.60**	**0.0089**	**0.0072**	
Uranus	**5002-11-29 03:07**	**G**	**3548334.48**	**3548334.63**	**3548334.80**	**0.0143**	**0.0074**	
Neptune	**5003-01-16 01:55**	**G**	**3548382.49**	**3548382.58**	**3548382.69**	**0.0089**	**0.0064**	
Saturn	**5003-01-16 03:35**	**G**	**3548382.52**	**3548382.65**	**3548382.78**	**0.0281**	**0.0095**	*****
Uranus	**5003-02-25 10:48**	**G**	**3548422.83**	**3548422.95**	**3548423.09**	**0.0143**	**0.0103**	
Mars	**5003-02-25 21:35**	**G**	**3548423.24**	**3548423.40**	**3548423.57**	**0.1673**	**0.0114**	

Neptune 5003-04-14 03:35 G 3548470.55 3548470.65 3548470.76 0.0089 0.0057

Saturn 5003-04-14 15:50 G 3548471.08 3548471.16 3548471.26 0.0282 0.0209

Uranus 5003-05-24 18:43 G 3548511.22 3548511.28 3548511.36 0.0143 0.0132

Neptune 5003-07-11 05:02 G 3548558.61 3548558.71 3548558.84 0.0089 0.0050

Neptune 5003-10-07 06:43 G 3548646.67 3548646.78 3548646.91 0.0089 0.0042

Neptune 5004-01-03 08:24 G 3548734.73 3548734.85 3548734.99 0.0089 0.0035

Mars 5004-01-07 09:07 G 3548738.79 3548738.88 3548738.97 0.1848 0.1160

Neptune 5004-03-31 10:04 G 3548822.79 3548822.92 3548823.06 0.0089 0.0027

Neptune 5004-06-27 11:31 G 3548910.85 3548910.98 3548911.13 0.0089 0.0021

Neptune 5004-09-23 13:11 G 3548998.92 3548999.05 3548999.19 0.0089 0.0013

Neptune 5004-12-20 14:52 G 3549086.98 3549087.12 3549087.26 0.0089 0.0005

Neptune 5005-03-18 16:19 G 3549175.05 3549175.18 3549175.32 0.0089 0.0004

Neptune 5005-06-14 18:00 G 3549263.11 3549263.25 3549263.39 0.0089 0.0009

Neptune 5005-09-10 19:26 G 3549351.18 3549351.31 3549351.45 0.0089 0.0017

Neptune 5005-12-07 21:07 G 3549439.24 3549439.38 3549439.51 0.0089 0.0024

Neptune 5006-03-05 22:33 G 3549527.31 3549527.44 3549527.57 0.0089 0.0031

Neptune 5006-06-02 00:00 G 3549615.38 3549615.50 3549615.63 0.0089 0.0038

Neptune 5006-08-29 01:26 G 3549703.45 3549703.56 3549703.69 0.0089 0.0046

Neptune 5006-11-25 03:07 G 3549791.52 3549791.63 3549791.75 0.0089 0.0052

Jupiter 5006-12-29 10:48 G 3549825.84 3549825.95 3549826.07 0.0487 0.0354

Neptune 5007-02-21 04:33 G 3549879.60 3549879.69 3549879.80 0.0089 0.0060

Jupiter 5007-03-29 11:31 G 3549915.84 3549915.98 3549916.13 0.0488 0.0280

Neptune 5007-05-20 06:00 G 3549967.67 3549967.75 3549967.85 0.0089 0.0067

Neptune 5007-08-16 07:40 G 3550055.75 3550055.82 3550055.90 0.0089 0.0074

Neptune 5007-11-12 09:07 G 3550143.83 3550143.88 3550143.95 0.0089 0.0081

Neptune 5008-02-08 10:33 G 3550231.93 3550231.94 3550231.98 0.0089 0.0088

Moon 5008-06-12 15:35 G 3550357.01 3550357.15 3550357.30 0.2658 0.0613

Earth 5008-06-12 16:48 G 3550357.04 3550357.20 3550357.35 0.2653 0.0408 *

Pluto 5011-06-04 04:19 G 3551443.67 3551443.68 3551443.71 0.0073 0.0072

Pluto 5011-08-31 06:00 G 3551531.67 3551531.75 3551531.88 0.0072 0.0060

Pluto 5011-11-27 08:24 G 3551619.72 3551619.85 3551620.00 0.0072 0.0047

Earth 5011-12-18 03:35 G 3551640.54 3551640.65 3551640.75 0.2681 0.0731

Moon 5011-12-18 03:50 G 3551640.55 3551640.66 3551640.76 0.2674 0.0828 *

Pluto 5012-02-23 10:19 G 3551707.78 3551707.93 3551708.10 0.0072 0.0035

Pluto 5012-05-21 12:28 G 3551795.85 3551796.02 3551796.20 0.0072 0.0022

Mars 5012-07-17 23:02 G 3551853.31 3551853.46 3551853.61 0.1667 0.0683

Pluto 5012-08-17 14:24 G 3551883.93 3551884.10 3551884.29 0.0072 0.0010

Pluto 5012-11-13 16:33 G 3551972.01 3551972.19 3551972.37 0.0072 0.0002

Jupiter 5012-12-02 04:19 G 3551990.56 3551990.68 3551990.81 0.0540 0.0134

Pluto 5013-02-09 18:14 G 3552060.09 3552060.26 3552060.45 0.0072 0.0015

Jupiter 5013-03-01 13:55 G 3552080.04 3552080.08 3552080.13 0.0539 0.0500

Pluto 5013-05-08 20:24 G 3552148.18 3552148.35 3552148.52 0.0072 0.0026

Mars 5013-05-29 17:45 G 3552169.12 3552169.24 3552169.35 0.1855 0.0488

Pluto 5013-08-04 22:19 G 3552236.28 3552236.43 3552236.59 0.0072 0.0038

Pluto 5013-11-01 00:00 G 3552324.38 3552324.50 3552324.64 0.0071 0.0050

Pluto 5014-01-28 01:40 G 3552412.50 3552412.57 3552412.68 0.0071 0.0062

Saturn 5016-05-17 20:09 G 3553253.23 3553253.34 3553253.46 0.0280 0.0202

Saturn 5016-08-14 15:21 G 3553341.98 3553342.14 3553342.31 0.0279 0.0063

Saturn 5016-11-11 11:02 G 3553430.79 3553430.96 3553431.12 0.0279 0.0079

Saturn 5017-02-08 06:43 G 3553519.68 3553519.78 3553519.89 0.0278 0.0221

Jupiter 5019-01-15 11:02 G 3554225.79 3554225.96 3554226.13 0.0488 0.0123

Venus 5019-03-05 23:16 G 3554275.43 3554275.47 3554275.52 0.3678 0.3324

Venus 5020-09-17 22:33 G 3554837.42 3554837.44 3554837.46 0.3692 0.3619

Earth 5021-06-15 22:33 G 3555108.37 3555108.44 3555108.51 0.2651 0.2358

Moon 5021-06-15 22:33 G 3555108.39 3555108.44 3555108.49 0.2658 0.2477 *

Mars 5021-12-08 00:28 G 3555283.45 3555283.52 3555283.60 0.1662 0.1462

Mars 5022-10-20 02:09 G 3555599.47 3555599.59 3555599.71 0.1861 0.0208

Venus 5024-09-18 16:33 G 3556299.10 3556299.19 3556299.29 0.3679 0.1927

Jupiter 5024-09-20 06:57 G 3556300.68 3556300.79 3556300.90 0.0540 0.0306

Jupiter 5024-12-18 16:48 G 3556390.10 3556390.20 3556390.30 0.0539 0.0334

Moon 5024-12-19 21:07 G 3556391.32 3556391.38 3556391.45 0.2676 0.2058

Earth 5024-12-19 21:21 G 3556391.33 3556391.39 3556391.46 0.2682 0.2129 *

Venus 5026-04-04 01:11 G 3556861.42 3556861.55 3556861.69 0.3691 0.0969

Venus 5030-04-04 09:50 G 3558322.80 3558322.91 3558323.01 0.3680 0.0574

Jupiter 5030-11-03 10:19 G 3558535.76 3558535.93 3558536.11 0.0488 0.0038

Venus 5031-10-19 04:48 G 3558885.58 3558885.70 3558885.82 0.3690 0.1880

Saturn 5031-12-10 04:48 G 3558937.59 3558937.70 3558937.82 0.0280 0.0163

Earth 5031-12-13 20:24 G 3558941.27 3558941.35 3558941.43 0.2678 0.1830

Moon 5031-12-13 21:07 G 3558941.30 3558941.38 3558941.46 0.2679 0.1748 *

Saturn 5032-03-07 17:45 G 3559026.10 3559026.24 3559026.37 0.0281 0.0048

Mars 5032-03-11 10:33 G 3559029.84 3559029.94 3559030.04 0.1868 0.0925

Saturn 5032-06-04 06:14 G 3559114.63 3559114.76 3559114.90 0.0281 0.0068

Saturn 5032-08-31 18:43 G 3559203.18 3559203.28 3559203.39 0.0282 0.0182

Mars 5033-04-05 21:35 G 3559420.27 3559420.40 3559420.53 0.1679 0.1046

Venus 5035-10-19 02:38 G 3560346.51 3560346.61 3560346.72 0.3680 0.0776

Jupiter 5036-07-09 09:35 G 3560610.84 3560610.90 3560610.96 0.0540 0.0473

Jupiter 5036-10-06 19:55 G 3560700.21 3560700.33 3560700.46 0.0540 0.0175

Venus 5041-05-03 19:26 G 3562370.22 3562370.31 3562370.40 0.3681 0.2066

Earth 5041-06-10 17:31 G 3562408.20 3562408.23 3562408.27 0.2655 0.2570

Mars 5041-08-01 18:43 G 3562460.22 3562460.28 3562460.33 0.1875 0.1657

Jupiter 5042-08-22 09:21 G 3562845.73 3562845.89 3562846.05 0.0487 0.0199

Mars 5042-08-26 22:33 G 3562850.27 3562850.44 3562850.60 0.1673 0.0214

Jupiter 5042-11-20 10:33 G 3562935.87 3562935.94 3562936.01 0.0488 0.0441

Mars 5043-07-08 09:07 G 3563165.79 3563165.88 3563165.96 0.1848 0.1226

Uranus 5044-03-25 10:19 G 3563426.89 3563426.93 3563426.98 0.0134 0.0127

Uranus 5044-06-21 13:40 G 3563515.00 3563515.07 3563515.15 0.0135 0.0109

Uranus 5044-09-17 17:02 G 3563603.11 3563603.21 3563603.31 0.0135 0.0092

Uranus 5044-12-14 20:24 G 3563691.24 3563691.35 3563691.47 0.0135 0.0074

Earth 5044-12-15 14:24 G 3563691.99 3563692.10 3563692.21 0.2679 0.0400

Moon 5044-12-15 15:07 G 3563692.01 3563692.13 3563692.24 0.2677 0.0271 *

Uranus	5045-03-12 23:31 G	3563779.37	3563779.48	3563779.61	0.0135	0.0057
Uranus	5045-06-09 02:52 G	3563867.50	3563867.62	3563867.76	0.0135	0.0039
Uranus	5045-09-05 06:14 G	3563955.63	3563955.76	3563955.90	0.0135	0.0021
Saturn	5045-10-04 22:04 G	3563985.33	3563985.42	3563985.52	0.0280	0.0228
Uranus	5045-12-02 09:35 G	3564043.76	3564043.90	3564044.03	0.0135	0.0004
Saturn	5046-01-01 17:16 G	3564074.06	3564074.22	3564074.38	0.0280	0.0089
Uranus	5046-02-28 12:43 G	3564131.90	3564132.03	3564132.17	0.0135	0.0014
Saturn	5046-03-31 12:43 G	3564162.86	3564163.03	3564163.20	0.0279	0.0052
Uranus	5046-05-27 16:04 G	3564220.04	3564220.17	3564220.30	0.0135	0.0031
Saturn	5046-06-28 08:24 G	3564251.73	3564251.85	3564251.98	0.0278	0.0195
Uranus	5046-08-23 19:11 G	3564308.18	3564308.30	3564308.43	0.0135	0.0049
Venus	5046-11-17 12:00 G	3564393.96	3564394.00	3564394.05	0.3682	0.3330
Uranus	5046-11-19 22:19 G	3564396.32	3564396.43	3564396.56	0.0135	0.0066
Uranus	5047-02-16 01:40 G	3564484.47	3564484.57	3564484.68	0.0135	0.0083
Uranus	5047-05-15 04:48 G	3564572.62	3564572.70	3564572.80	0.0135	0.0101
Uranus	5047-08-11 08:09 G	3564660.78	3564660.84	3564660.90	0.0135	0.0118
Uranus	5047-11-07 11:16 G	3564748.96	3564748.97	3564748.98	0.0136	0.0135
Jupiter	5048-07-25 23:16 G	3565010.34	3565010.47	3565010.60	0.0541	0.0019
Mars	5052-01-16 23:31 G	3566280.33	3566280.48	3566280.63	0.1667	0.0606
Mars	5052-11-27 17:45 G	3566596.13	3566596.24	3566596.35	0.1855	0.0557
Jupiter	5054-06-10 09:07 G	3567155.76	3567155.88	3567156.00	0.0487	0.0350
Moon	5054-06-13 22:19 G	3567159.28	3567159.43	3567159.59	0.2659	0.0115
Earth	5054-06-13 23:16 G	3567159.31	3567159.47	3567159.62	0.2653	0.0154 *
Jupiter	5054-09-08 09:50 G	3567245.77	3567245.91	3567246.05	0.0487	0.0282
Earth	5057-12-18 08:24 G	3568442.75	3568442.85	3568442.95	0.2681	0.1021
Moon	5057-12-18 08:38 G	3568442.76	3568442.86	3568442.96	0.2674	0.0991 *
Jupiter	5060-05-14 02:52 G	3569320.49	3569320.62	3569320.75	0.0541	0.0135
Jupiter	5060-08-11 12:28 G	3569409.97	3569410.02	3569410.07	0.0540	0.0499
Saturn	5061-04-28 06:00 G	3569669.66	3569669.75	3569669.85	0.0279	0.0202
Mars	5061-06-08 01:11 G	3569710.46	3569710.55	3569710.64	0.1662	0.1373

Saturn	5061-07-25 18:57 G	3569758.16	3569758.29	3569758.43	0.0280	0.0086
Saturn	5061-10-22 07:40 G	3569846.68	3569846.82	3569846.96	0.0281	0.0029
Saturn	5062-01-18 20:09 G	3569935.22	3569935.34	3569935.46	0.0281	0.0143
Saturn	5062-04-17 08:24 G	3570023.80	3570023.85	3570023.91	0.0282	0.0256
Mars	5062-04-20 02:09 G	3570026.48	3570026.59	3570026.71	0.1861	0.0149
Jupiter	5066-06-27 08:52 G	3571555.70	3571555.87	3571556.04	0.0487	0.0122
Moon	5070-12-21 01:55 G	3573193.53	3573193.58	3573193.62	0.2677	0.2417
Earth	5070-12-21 02:09 G	3573193.55	3573193.59	3573193.64	0.2682	0.2419 *
Mars	5071-09-10 10:33 G	3573456.84	3573456.94	3573457.04	0.1868	0.0851
Jupiter	5072-03-02 06:00 G	3573630.64	3573630.75	3573630.86	0.0541	0.0293
Jupiter	5072-05-30 16:04 G	3573720.07	3573720.17	3573720.27	0.0540	0.0348
Mars	5072-10-04 22:19 G	3573847.31	3573847.43	3573847.55	0.1679	0.1145
Saturn	5075-05-21 15:07 G	3574805.99	3574806.13	3574806.28	0.0280	0.0143
Saturn	5075-08-18 10:33 G	3574894.77	3574894.94	3574895.11	0.0279	0.0005
Venus	5075-10-10 21:21 G	3574948.32	3574948.39	3574948.46	0.3678	0.2865
Saturn	5075-11-15 06:14 G	3574983.61	3574983.76	3574983.91	0.0279	0.0140
Venus	5077-04-24 23:02 G	3575510.37	3575510.46	3575510.55	0.3691	0.2815
Earth	5077-12-14 01:11 G	3575743.46	3575743.55	3575743.64	0.2678	0.1528
Moon	5077-12-14 01:55 G	3575743.49	3575743.58	3575743.68	0.2679	0.1412 *
Jupiter	5078-04-15 08:38 G	3575865.68	3575865.86	3575866.03	0.0487	0.0034
Mars	5081-01-30 18:43 G	3576887.22	3576887.28	3576887.34	0.1874	0.1587
Venus	5081-04-25 14:38 G	3576972.01	3576972.11	3576972.21	0.3679	0.1485
Mars	5082-02-24 23:02 G	3577277.30	3577277.46	3577277.62	0.1673	0.0300
Venus	5082-11-09 01:55 G	3577534.44	3577534.58	3577534.72	0.3691	0.0103
Mars	5083-01-06 09:07 G	3577592.80	3577592.88	3577592.96	0.1848	0.1293
Jupiter	5083-12-20 08:24 G	3577940.79	3577940.85	3577940.92	0.0540	0.0466
Jupiter	5084-03-18 18:43 G	3578030.16	3578030.28	3578030.41	0.0540	0.0183
Neptune	5084-10-12 18:43 G	3578238.25	3578238.28	3578238.33	0.0088	0.0085
Neptune	5085-01-08 21:50 G	3578326.32	3578326.41	3578326.50	0.0088	0.0076
Neptune	5085-04-07 00:14 G	3578414.42	3578414.51	3578414.64	0.0088	0.0068

Uranus 5085-04-10 04:48 G 3578417.61 3578417.70 3578417.81 0.0144 0.0121

Neptune 5085-07-04 03:21 G 3578502.52 3578502.64 3578502.78 0.0088 0.0059

Uranus 5085-07-07 12:14 G 3578505.88 3578506.01 3578506.16 0.0144 0.0093

Neptune 5085-09-30 06:28 G 3578590.62 3578590.77 3578590.91 0.0088 0.0050

Uranus 5085-10-03 19:55 G 3578594.17 3578594.33 3578594.50 0.0144 0.0064

Neptune 5085-12-27 09:07 G 3578678.73 3578678.88 3578679.04 0.0088 0.0042

Uranus 5085-12-31 03:35 G 3578682.47 3578682.65 3578682.83 0.0143 0.0035

Neptune 5086-03-25 12:00 G 3578766.84 3578767.00 3578767.17 0.0088 0.0033

Uranus 5086-03-29 11:16 G 3578770.79 3578770.97 3578771.16 0.0143 0.0007

Neptune 5086-06-21 15:07 G 3578854.96 3578855.13 3578855.30 0.0088 0.0024

Uranus 5086-06-25 18:57 G 3578859.11 3578859.29 3578859.48 0.0143 0.0023

Neptune 5086-09-17 18:00 G 3578943.07 3578943.25 3578943.43 0.0088 0.0015

Uranus 5086-09-22 02:38 G 3578947.44 3578947.61 3578947.79 0.0143 0.0052

Venus 5086-11-09 07:40 G 3578995.71 3578995.82 3578995.93 0.3680 0.0144

Neptune 5086-12-14 20:52 G 3579031.19 3579031.37 3579031.55 0.0088 0.0007

Uranus 5086-12-19 10:33 G 3579035.79 3579035.94 3579036.09 0.0143 0.0081

Neptune 5087-03-13 00:00 G 3579119.32 3579119.50 3579119.68 0.0088 0.0003

Uranus 5087-03-17 18:00 G 3579124.15 3579124.25 3579124.38 0.0143 0.0110

Neptune 5087-06-09 02:52 G 3579207.44 3579207.62 3579207.80 0.0088 0.0012

Moon 5087-06-11 22:33 G 3579210.36 3579210.44 3579210.52 0.2657 0.2260

Earth 5087-06-12 00:00 G 3579210.41 3579210.50 3579210.60 0.2655 0.2038 *

Uranus 5087-06-14 01:55 G 3579212.55 3579212.58 3579212.63 0.0143 0.0139

Neptune 5087-09-05 05:45 G 3579295.57 3579295.74 3579295.92 0.0088 0.0021

Neptune 5087-12-02 08:38 G 3579383.70 3579383.86 3579384.04 0.0088 0.0030

Neptune 5088-02-28 11:31 G 3579471.83 3579471.98 3579472.16 0.0088 0.0039

Venus 5088-05-25 05:45 G 3579558.64 3579558.74 3579558.83 0.3690 0.2789

Neptune 5088-05-26 14:38 G 3579559.97 3579560.11 3579560.27 0.0088 0.0048

Neptune 5088-08-22 17:31 G 3579648.11 3579648.23 3579648.39 0.0088 0.0057

Neptune 5088-11-18 20:38 G 3579736.25 3579736.36 3579736.49 0.0088 0.0066

Neptune 5089-02-14 23:45 G 3579824.41 3579824.49 3579824.59 0.0088 0.0075

Neptune 5089-05-14 02:52 G 3579912.58 3579912.62 3579912.68 0.0088 0.0084

Jupiter 5090-02-01 08:09 G 3580175.68 3580175.84 3580176.00 0.0487 0.0189

Jupiter 5090-05-02 09:21 G 3580265.83 3580265.89 3580265.96 0.0488 0.0453

Saturn 5090-09-15 08:09 G 3580401.77 3580401.84 3580401.92 0.0280 0.0234

Saturn 5090-12-12 21:07 G 3580490.25 3580490.38 3580490.51 0.0280 0.0118

Earth 5090-12-16 19:11 G 3580494.19 3580494.30 3580494.41 0.2679 0.0108

Moon 5090-12-16 19:55 G 3580494.21 3580494.33 3580494.44 0.2675 0.0124 *

Saturn 5091-03-11 09:50 G 3580578.77 3580578.91 3580579.05 0.0281 0.0002

Saturn 5091-06-07 22:19 G 3580667.31 3580667.43 3580667.56 0.0282 0.0113

Mars 5091-07-18 00:14 G 3580707.36 3580707.51 3580707.67 0.1668 0.0505

Saturn 5091-09-04 10:48 G 3580755.87 3580755.95 3580756.03 0.0282 0.0226

Venus 5092-05-25 00:28 G 3581019.42 3581019.52 3581019.62 0.3681 0.1196

Mars 5092-05-28 17:45 G 3581023.13 3581023.24 3581023.35 0.1854 0.0621

Jupiter 5096-01-05 21:50 G 3582340.28 3582340.41 3582340.54 0.0540 0.0021

Venus 5097-12-08 17:16 G 3583043.14 3583043.22 3583043.30 0.3681 0.2477

Moon 5100-06-15 05:02 G 3583961.56 3583961.71 3583961.86 0.2659 0.0599

Earth 5100-06-15 05:31 G 3583961.58 3583961.73 3583961.88 0.2653 0.0669 *

Mars 5100-12-08 01:40 G 3584137.47 3584137.57 3584137.67 0.1662 0.1290

Mars 5101-10-20 02:09 G 3584453.48 3584453.59 3584453.71 0.1861 0.0098

Jupiter 5101-11-21 07:11 G 3584485.69 3584485.80 3584485.93 0.0487 0.0348

Jupiter 5102-02-19 07:55 G 3584575.69 3584575.83 3584575.98 0.0487 0.0285

Earth 5103-12-20 13:11 G 3585244.95 3585245.05 3585245.15 0.2681 0.1312

Moon 5103-12-20 13:26 G 3585244.96 3585245.06 3585245.15 0.2674 0.1392 *

Saturn 5104-10-08 16:48 G 3585538.07 3585538.20 3585538.34 0.0280 0.0171

Saturn 5105-01-05 12:14 G 3585626.84 3585627.01 3585627.18 0.0280 0.0031

Saturn 5105-04-04 07:40 G 3585715.66 3585715.82 3585715.98 0.0279 0.0111

Saturn 5105-07-02 03:21 G 3585804.58 3585804.64 3585804.72 0.0278 0.0255

Jupiter 5107-10-26 00:57 G 3586650.41 3586650.54 3586650.67 0.0541 0.0140

Jupiter 5108-01-23 10:33 G 3586739.90 3586739.94 3586739.99 0.0540 0.0495

Earth 5110-12-13 12:00 G 3587795.00 3587795.00 3587795.00 0.2676 0.2672

Moon	5110-12-13 12:28 G	3587795.01	3587795.02	3587795.04	0.2680	0.2647
Mars	5111-03-12 10:48 G	3587883.84	3587883.95	3587884.05	0.1868	0.0774
Mars	5112-04-05 22:48 G	3588274.34	3588274.45	3588274.57	0.1679	0.1231
Jupiter	5113-12-08 07:26 G	3588885.64	3588885.81	3588885.98	0.0487	0.0128
Moon	5116-12-22 06:43 G	3589995.75	3589995.78	3589995.80	0.2677	0.2574
Jupiter	5119-08-14 04:19 G	3590960.57	3590960.68	3590960.80	0.0541	0.0294
Jupiter	5119-11-11 14:24 G	3591050.00	3591050.10	3591050.20	0.0540	0.0349
Saturn	5120-02-03 09:35 G	3591133.87	3591133.90	3591133.93	0.0278	0.0271
Saturn	5120-05-01 22:33 G	3591222.32	3591222.44	3591222.56	0.0279	0.0156
Saturn	5120-07-29 11:16 G	3591310.83	3591310.97	3591311.11	0.0280	0.0041
Mars	5120-08-01 18:43 G	3591314.21	3591314.28	3591314.35	0.1874	0.1518
Saturn	5120-10-26 00:00 G	3591399.36	3591399.50	3591399.63	0.0280	0.0074
Saturn	5121-01-22 12:14 G	3591487.91	3591488.01	3591488.12	0.0281	0.0187
Mars	5121-08-26 23:45 G	3591704.33	3591704.49	3591704.65	0.1674	0.0393
Mars	5122-07-08 09:07 G	3592019.80	3592019.88	3592019.96	0.1847	0.1362
Earth	5123-12-16 06:00 G	3592545.66	3592545.75	3592545.85	0.2678	0.1232
Moon	5123-12-16 06:43 G	3592545.68	3592545.78	3592545.89	0.2679	0.1125 *
Jupiter	5125-09-26 06:43 G	3593195.61	3593195.78	3593195.96	0.0487	0.0031
Uranus	5128-04-15 17:02 G	3594128.17	3594128.21	3594128.27	0.0134	0.0124
Uranus	5128-07-12 20:24 G	3594216.28	3594216.35	3594216.44	0.0135	0.0107
Uranus	5128-10-08 23:45 G	3594304.40	3594304.49	3594304.60	0.0135	0.0089
Uranus	5129-01-05 03:07 G	3594392.52	3594392.63	3594392.75	0.0135	0.0071
Uranus	5129-04-03 06:28 G	3594480.65	3594480.77	3594480.90	0.0135	0.0054
Uranus	5129-06-30 09:50 G	3594568.78	3594568.91	3594569.04	0.0135	0.0036
Uranus	5129-09-26 13:11 G	3594656.91	3594657.05	3594657.18	0.0135	0.0019
Uranus	5129-12-23 16:19 G	3594745.05	3594745.18	3594745.32	0.0135	0.0003
Uranus	5130-03-21 19:40 G	3594833.18	3594833.32	3594833.45	0.0135	0.0017
Uranus	5130-06-17 22:48 G	3594921.32	3594921.45	3594921.58	0.0135	0.0034
Uranus	5130-09-14 02:09 G	3595009.46	3595009.59	3595009.71	0.0135	0.0051
Uranus	5130-12-11 05:16 G	3595097.61	3595097.72	3595097.84	0.0135	0.0069

Mars 5131-01-17 00:57 G 3595134.38 3595134.54 3595134.69 0.1668 0.0418

Uranus 5131-03-09 08:24 G 3595185.76 3595185.85 3595185.96 0.0135 0.0086

Jupiter 5131-06-02 07:26 G 3595270.75 3595270.81 3595270.89 0.0541 0.0453

Uranus 5131-06-05 11:45 G 3595273.91 3595273.99 3595274.08 0.0135 0.0103

Jupiter 5131-08-30 18:00 G 3595360.13 3595360.25 3595360.37 0.0540 0.0197

Uranus 5131-09-01 14:52 G 3595362.07 3595362.12 3595362.18 0.0135 0.0121

Mars 5131-11-28 17:45 G 3595450.13 3595450.24 3595450.35 0.1854 0.0688

Venus 5132-05-17 19:11 G 3595621.22 3595621.30 3595621.39 0.3679 0.2413

Moon 5133-06-13 05:02 G 3596012.59 3596012.71 3596012.83 0.2658 0.1613

Earth 5133-06-13 06:28 G 3596012.64 3596012.77 3596012.89 0.2655 0.1516 *

Venus 5133-11-30 23:31 G 3596183.36 3596183.48 3596183.59 0.3691 0.1993

Saturn 5134-02-25 14:09 G 3596270.00 3596270.09 3596270.20 0.0281 0.0229

Saturn 5134-05-25 09:35 G 3596358.74 3596358.90 3596359.06 0.0280 0.0089

Saturn 5134-08-22 05:02 G 3596447.54 3596447.71 3596447.88 0.0279 0.0052

Saturn 5134-11-19 00:43 G 3596536.41 3596536.53 3596536.66 0.0279 0.0195

Earth 5136-12-18 00:00 G 3597296.39 3597296.50 3597296.62 0.2679 0.0229

Moon 5136-12-18 00:43 G 3597296.42 3597296.53 3597296.64 0.2674 0.0304 *

Jupiter 5137-07-15 06:28 G 3597505.61 3597505.77 3597505.93 0.0487 0.0183

Jupiter 5137-10-13 07:40 G 3597595.77 3597595.82 3597595.88 0.0488 0.0459

Venus 5137-12-01 12:28 G 3597644.91 3597645.02 3597645.12 0.3680 0.1039

Venus 5139-06-17 02:38 G 3598207.47 3598207.61 3598207.75 0.3690 0.0772

Mars 5140-06-08 02:24 G 3598564.49 3598564.60 3598564.71 0.1662 0.1196

Mars 5141-04-20 02:24 G 3598880.48 3598880.60 3598880.72 0.1861 0.0011

Venus 5143-06-17 05:31 G 3599668.62 3599668.73 3599668.84 0.3680 0.0314

Jupiter 5143-06-18 20:52 G 3599670.24 3599670.37 3599670.50 0.0540 0.0032

Moon 5146-06-16 11:31 G 3600763.85 3600763.98 3600764.12 0.2659 0.1148

Earth 5146-06-16 12:00 G 3600763.87 3600764.00 3600764.14 0.2653 0.1216 *

Venus 5148-12-30 22:19 G 3601692.33 3601692.43 3601692.53 0.3681 0.1613

Jupiter 5149-05-03 06:14 G 3601815.64 3601815.76 3601815.88 0.0487 0.0336

Jupiter 5149-08-01 06:57 G 3601905.65 3601905.79 3601905.93 0.0488 0.0298

Saturn 5149-09-19 00:14 G 3601954.41 3601954.51 3601954.61 0.0280 0.0191

Saturn 5149-12-16 12:57 G 3602042.91 3602043.04 3602043.18 0.0280 0.0076

Moon 5149-12-20 18:00 G 3602047.16 3602047.25 3602047.34 0.2675 0.1569

Earth 5149-12-20 18:00 G 3602047.16 3602047.25 3602047.34 0.2681 0.1609 *

Saturn 5150-03-15 01:40 G 3602131.43 3602131.57 3602131.71 0.0281 0.0040

Saturn 5150-06-11 14:09 G 3602219.98 3602220.09 3602220.21 0.0282 0.0154

Saturn 5150-09-08 02:38 G 3602308.57 3602308.61 3602308.65 0.0282 0.0266

Mars 5150-09-10 10:33 G 3602310.84 3602310.94 3602311.05 0.1868 0.0717

Mars 5151-10-05 23:45 G 3602701.39 3602701.49 3602701.59 0.1680 0.1332

Venus 5154-07-16 15:07 G 3603716.06 3603716.13 3603716.19 0.3682 0.2887

Jupiter 5155-04-07 00:00 G 3603980.37 3603980.50 3603980.62 0.0540 0.0133

Jupiter 5155-07-05 09:35 G 3604069.85 3604069.90 3604069.94 0.0539 0.0501

Earth 5156-12-13 16:48 G 3604597.15 3604597.20 3604597.25 0.2676 0.2373

Moon 5156-12-13 17:31 G 3604597.17 3604597.23 3604597.29 0.2681 0.2230 *

Mars 5160-01-31 18:57 G 3605741.21 3605741.29 3605741.36 0.1874 0.1442

Mars 5161-02-25 00:14 G 3606131.36 3606131.51 3606131.67 0.1673 0.0486

Jupiter 5161-05-20 05:45 G 3606215.58 3606215.74 3606215.91 0.0487 0.0135

Mars 5162-01-06 09:07 G 3606446.81 3606446.88 3606446.95 0.1848 0.1423

Saturn 5163-07-15 15:35 G 3607002.09 3607002.15 3607002.22 0.0281 0.0259

Saturn 5163-10-12 10:48 G 3607090.79 3607090.95 3607091.10 0.0280 0.0120

Saturn 5164-01-09 06:14 G 3607179.58 3607179.76 3607179.93 0.0280 0.0022

Saturn 5164-04-07 01:55 G 3607268.44 3607268.58 3607268.72 0.0279 0.0163

Neptune 5167-01-22 20:52 G 3608289.33 3608289.37 3608289.43 0.0089 0.0083

Jupiter 5167-01-24 02:38 G 3608290.50 3608290.61 3608290.72 0.0541 0.0297

Neptune 5167-04-20 22:33 G 3608377.37 3608377.44 3608377.52 0.0089 0.0075

Jupiter 5167-04-23 12:43 G 3608379.94 3608380.03 3608380.14 0.0540 0.0348

Neptune 5167-07-18 00:14 G 3608465.43 3608465.51 3608465.61 0.0089 0.0068

Neptune 5167-10-14 01:55 G 3608553.48 3608553.58 3608553.69 0.0089 0.0060

Neptune 5168-01-10 03:35 G 3608641.54 3608641.65 3608641.76 0.0089 0.0053

Neptune 5168-04-07 05:02 G 3608729.60 3608729.71 3608729.84 0.0089 0.0046

Neptune 5168-07-04 06:43 G 3608817.66 3608817.78 3608817.91 0.0089 0.0038

Neptune 5168-09-30 08:24 G 3608905.72 3608905.85 3608905.99 0.0089 0.0031

Neptune 5168-12-27 10:04 G 3608993.78 3608993.92 3608994.06 0.0089 0.0023

Uranus 5169-02-02 04:33 G 3609030.67 3609030.69 3609030.72 0.0144 0.0142

Neptune 5169-03-25 11:31 G 3609081.85 3609081.98 3609082.12 0.0089 0.0016

Uranus 5169-05-01 12:00 G 3609118.89 3609119.00 3609119.11 0.0144 0.0114

Neptune 5169-06-21 13:11 G 3609169.91 3609170.05 3609170.19 0.0089 0.0009

Uranus 5169-07-28 19:26 G 3609207.17 3609207.31 3609207.46 0.0144 0.0086

Neptune 5169-09-17 14:52 G 3609257.98 3609258.12 3609258.26 0.0089 0.0002

Uranus 5169-10-25 03:07 G 3609295.46 3609295.63 3609295.80 0.0144 0.0057

Neptune 5169-12-14 16:19 G 3609346.04 3609346.18 3609346.32 0.0089 0.0006

Earth 5169-12-16 11:02 G 3609347.85 3609347.96 3609348.06 0.2678 0.0931

Moon 5169-12-16 11:45 G 3609347.88 3609347.99 3609348.09 0.2677 0.0862 *

Uranus 5170-01-21 10:48 G 3609383.77 3609383.95 3609384.13 0.0143 0.0029

Neptune 5170-03-12 18:00 G 3609434.11 3609434.25 3609434.39 0.0089 0.0013

Uranus 5170-04-19 18:28 G 3609472.08 3609472.27 3609472.45 0.0143 0.0002

Neptune 5170-06-08 19:26 G 3609522.18 3609522.31 3609522.45 0.0089 0.0020

Uranus 5170-07-17 01:55 G 3609560.41 3609560.58 3609560.77 0.0143 0.0030

Mars 5170-07-18 01:26 G 3609561.40 3609561.56 3609561.72 0.1668 0.0331

Neptune 5170-09-04 21:07 G 3609610.25 3609610.38 3609610.51 0.0089 0.0027

Uranus 5170-10-13 09:35 G 3609648.74 3609648.90 3609649.08 0.0143 0.0059

Neptune 5170-12-01 22:33 G 3609698.32 3609698.44 3609698.57 0.0089 0.0035

Uranus 5171-01-09 17:31 G 3609737.09 3609737.23 3609737.38 0.0143 0.0087

Neptune 5171-02-28 00:14 G 3609786.38 3609786.51 3609786.63 0.0089 0.0042

Uranus 5171-04-08 01:11 G 3609825.45 3609825.55 3609825.67 0.0143 0.0116

Neptune 5171-05-27 01:26 G 3609874.46 3609874.56 3609874.69 0.0089 0.0049

Mars 5171-05-29 18:00 G 3609877.14 3609877.25 3609877.35 0.1854 0.0766

Neptune 5171-08-23 02:52 G 3609962.53 3609962.62 3609962.74 0.0089 0.0057

Neptune 5171-11-19 04:33 G 3610050.60 3610050.69 3610050.80 0.0089 0.0063

Neptune 5172-02-15 06:00 G 3610138.68 3610138.75 3610138.85 0.0089 0.0071

Neptune 5172-05-13 07:26 G 3610226.76 3610226.81 3610226.89 0.0089 0.0078

Neptune 5172-08-09 09:07 G 3610314.85 3610314.88 3610314.93 0.0089 0.0084

Jupiter 5173-03-08 05:31 G 3610525.56 3610525.73 3610525.91 0.0487 0.0020

Pluto 5174-05-02 14:09 G 3610946.06 3610946.09 3610946.15 0.0071 0.0067

Pluto 5174-07-29 15:07 G 3611034.06 3611034.13 3611034.22 0.0071 0.0058

Pluto 5174-10-25 16:04 G 3611122.07 3611122.17 3611122.27 0.0071 0.0050

Pluto 5175-01-21 17:02 G 3611210.09 3611210.21 3611210.32 0.0071 0.0041

Pluto 5175-04-19 17:45 G 3611298.12 3611298.24 3611298.36 0.0071 0.0032

Pluto 5175-07-16 18:28 G 3611386.14 3611386.27 3611386.40 0.0072 0.0023

Pluto 5175-10-12 19:26 G 3611474.17 3611474.31 3611474.44 0.0072 0.0014

Pluto 5176-01-08 20:09 G 3611562.20 3611562.34 3611562.48 0.0072 0.0005

Pluto 5176-04-05 21:07 G 3611650.24 3611650.38 3611650.52 0.0072 0.0005

Pluto 5176-07-02 21:50 G 3611738.28 3611738.41 3611738.55 0.0072 0.0014

Pluto 5176-09-28 22:48 G 3611826.32 3611826.45 3611826.58 0.0072 0.0023

Pluto 5176-12-25 23:45 G 3611914.36 3611914.49 3611914.61 0.0072 0.0033

Pluto 5177-03-24 00:14 G 3612002.41 3612002.51 3612002.64 0.0072 0.0043

Pluto 5177-06-20 01:26 G 3612090.46 3612090.56 3612090.66 0.0073 0.0052

Pluto 5177-09-16 01:55 G 3612178.53 3612178.58 3612178.67 0.0073 0.0062

Pluto 5177-12-13 03:21 G 3612266.61 3612266.64 3612266.66 0.0073 0.0071

Jupiter 5178-11-12 06:00 G 3612600.68 3612600.75 3612600.82 0.0541 0.0453

Saturn 5179-02-06 01:40 G 3612686.49 3612686.57 3612686.65 0.0278 0.0228

Jupiter 5179-02-09 16:33 G 3612690.07 3612690.19 3612690.31 0.0541 0.0199

Saturn 5179-05-05 14:38 G 3612774.98 3612775.11 3612775.23 0.0279 0.0113

Moon 5179-06-14 11:45 G 3612814.86 3612814.99 3612815.13 0.2659 0.1206

Earth 5179-06-14 12:57 G 3612814.89 3612815.04 3612815.18 0.2654 0.0984 *

Saturn 5179-08-02 03:07 G 3612863.50 3612863.63 3612863.77 0.0280 0.0009

Saturn 5179-10-29 15:50 G 3612952.03 3612952.16 3612952.28 0.0280 0.0115

Mars 5179-12-08 03:07 G 3612991.51 3612991.63 3612991.75 0.1662 0.1110

Saturn 5180-01-26 04:04 G 3613040.59 3613040.67 3613040.75 0.0281 0.0227

Mars 5180-10-19 02:24 G 3613307.48 3613307.60 3613307.72 0.1861 0.0070

Earth	5182-12-19 05:02 G	3614098.60	3614098.71	3614098.82	0.2680	0.0498
Moon	5182-12-19 05:31 G	3614098.62	3614098.73	3614098.84	0.2674	0.0561 *
Venus	5183-06-09 00:00 G	3614270.45	3614270.50	3614270.54	0.3678	0.3364
Jupiter	5184-12-25 05:02 G	3614835.55	3614835.71	3614835.87	0.0487	0.0176
Jupiter	5185-03-25 06:14 G	3614925.71	3614925.76	3614925.81	0.0488	0.0465
Venus	5188-12-22 17:16 G	3616294.12	3616294.22	3616294.31	0.3679	0.1964
Mars	5190-03-11 10:48 G	3616737.84	3616737.95	3616738.06	0.1868	0.0637
Venus	5190-07-08 00:00 G	3616856.37	3616856.50	3616856.63	0.3691	0.1153
Jupiter	5190-11-28 20:09 G	3617000.21	3617000.34	3617000.47	0.0540	0.0047
Mars	5191-04-06 00:28 G	3617128.43	3617128.52	3617128.60	0.1680	0.1427
Moon	5192-06-16 18:00 G	3617566.14	3617566.25	3617566.37	0.2659	0.1751
Earth	5192-06-16 18:28 G	3617566.15	3617566.27	3617566.38	0.2652	0.1751 *
Saturn	5193-02-28 07:55 G	3617822.70	3617822.83	3617822.96	0.0281	0.0179
Saturn	5193-05-28 03:07 G	3617911.47	3617911.63	3617911.81	0.0280	0.0040
Saturn	5193-08-24 22:48 G	3618000.29	3618000.45	3618000.61	0.0279	0.0103
Saturn	5193-11-21 18:43 G	3618089.20	3618089.28	3618089.36	0.0279	0.0246
Venus	5194-07-08 10:19 G	3618317.82	3618317.93	3618318.04	0.3680	0.0598
Moon	5195-12-21 22:48 G	3618849.37	3618849.45	3618849.53	0.2675	0.1900
Earth	5195-12-21 22:48 G	3618849.38	3618849.45	3618849.53	0.2681	0.1907 *
Venus	5196-01-22 03:21 G	3618880.51	3618880.64	3618880.76	0.3690	0.1652
Jupiter	5196-10-13 04:48 G	3619145.58	3619145.70	3619145.83	0.0487	0.0326
Jupiter	5197-01-11 05:31 G	3619235.60	3619235.73	3619235.87	0.0488	0.0307
Mars	5199-08-01 18:43 G	3620168.21	3620168.28	3620168.36	0.1874	0.1377
Venus	5200-01-22 03:21 G	3620341.53	3620341.64	3620341.74	0.3680	0.0735
Mars	5200-08-26 01:11 G	3620558.39	3620558.55	3620558.70	0.1674	0.0582
Mars	5201-07-07 09:07 G	3620873.82	3620873.88	3620873.95	0.1847	0.1497
Jupiter	5202-09-16 23:02 G	3621310.33	3621310.46	3621310.59	0.0540	0.0119
Earth	5202-12-14 21:50 G	3621399.34	3621399.41	3621399.48	0.2676	0.2071
Moon	5202-12-14 22:19 G	3621399.36	3621399.43	3621399.50	0.2681	0.2048 *
Jupiter	5202-12-15 08:38 G	3621399.83	3621399.86	3621399.90	0.0539	0.0514

Venus 5205-08-06 20:09 G 3622365.25 3622365.34 3622365.43 0.3681 0.2025

Saturn 5208-06-25 02:52 G 3623418.59 3623418.62 3623418.66 0.0279 0.0266

Jupiter 5208-08-01 04:48 G 3623455.67 3623455.70 3623455.73 0.0487 0.0477

Saturn 5208-09-21 15:50 G 3623507.05 3623507.16 3623507.28 0.0280 0.0151

Jupiter 5208-10-30 05:02 G 3623545.54 3623545.71 3623545.87 0.0488 0.0149

Saturn 5208-12-19 04:33 G 3623595.56 3623595.69 3623595.83 0.0280 0.0037

Saturn 5209-03-17 17:16 G 3623684.09 3623684.22 3623684.35 0.0281 0.0079

Saturn 5209-06-14 05:45 G 3623772.64 3623772.74 3623772.84 0.0282 0.0192

Mars 5210-01-16 02:09 G 3623988.43 3623988.59 3623988.75 0.1668 0.0234

Mars 5210-11-27 17:45 G 3624304.14 3624304.24 3624304.35 0.1854 0.0826

Venus 5211-02-20 12:43 G 3624388.99 3624389.03 3624389.08 0.3682 0.3285

Uranus 5212-05-06 00:00 G 3624829.45 3624829.50 3624829.56 0.0134 0.0121

Uranus 5212-08-02 03:21 G 3624917.56 3624917.64 3624917.73 0.0134 0.0103

Uranus 5212-10-29 06:43 G 3625005.68 3625005.78 3625005.89 0.0135 0.0086

Uranus 5213-01-25 10:04 G 3625093.81 3625093.92 3625094.04 0.0135 0.0068

Uranus 5213-04-23 13:26 G 3625181.93 3625182.06 3625182.19 0.0135 0.0050

Uranus 5213-07-20 16:48 G 3625270.07 3625270.20 3625270.33 0.0135 0.0033

Uranus 5213-10-16 19:55 G 3625358.20 3625358.33 3625358.47 0.0135 0.0016

Uranus 5214-01-12 23:16 G 3625446.34 3625446.47 3625446.61 0.0135 0.0003

Uranus 5214-04-11 02:38 G 3625534.47 3625534.61 3625534.74 0.0135 0.0020

Jupiter 5214-07-06 01:55 G 3625620.46 3625620.58 3625620.69 0.0541 0.0283

Uranus 5214-07-08 05:45 G 3625622.61 3625622.74 3625622.87 0.0135 0.0037

Jupiter 5214-10-03 11:45 G 3625709.90 3625709.99 3625710.09 0.0540 0.0359

Uranus 5214-10-04 08:52 G 3625710.75 3625710.87 3625711.00 0.0135 0.0055

Uranus 5214-12-31 12:14 G 3625798.90 3625799.01 3625799.13 0.0135 0.0072

Uranus 5215-03-29 15:21 G 3625887.05 3625887.14 3625887.25 0.0135 0.0090

Uranus 5215-06-25 18:43 G 3625975.20 3625975.28 3625975.36 0.0135 0.0107

Uranus 5215-09-21 21:50 G 3626063.36 3626063.41 3626063.47 0.0135 0.0124

Earth 5215-12-17 15:50 G 3626150.05 3626150.16 3626150.27 0.2678 0.0632

Moon 5215-12-17 16:33 G 3626150.08 3626150.19 3626150.30 0.2676 0.0485 *

Mars 5219-06-08 03:35 G 3627418.52 3627418.65 3627418.78 0.1662 0.1023

Mars 5220-04-19 02:24 G 3627734.49 3627734.60 3627734.72 0.1861 0.0150

Jupiter 5220-08-18 04:04 G 3627855.50 3627855.67 3627855.85 0.0487 0.0017

Saturn 5222-07-18 08:38 G 3628554.76 3628554.86 3628554.97 0.0281 0.0214

Saturn 5222-10-15 04:04 G 3628643.50 3628643.67 3628643.83 0.0280 0.0074

Saturn 5223-01-11 23:31 G 3628732.31 3628732.48 3628732.65 0.0280 0.0068

Saturn 5223-04-10 19:11 G 3628821.19 3628821.30 3628821.42 0.0279 0.0211

Moon 5225-06-14 18:14 G 3629617.11 3629617.26 3629617.41 0.2660 0.0466

Earth 5225-06-14 19:11 G 3629617.15 3629617.30 3629617.45 0.2654 0.0449 *

Jupiter 5226-04-24 04:19 G 3629930.61 3629930.68 3629930.76 0.0541 0.0454

Jupiter 5226-07-22 14:52 G 3630020.00 3630020.12 3630020.25 0.0541 0.0199

Earth 5228-12-19 09:50 G 3630900.80 3630900.91 3630901.02 0.2680 0.0792

Moon 5228-12-19 10:19 G 3630900.82 3630900.93 3630901.03 0.2674 0.0840 *

Mars 5229-09-09 10:48 G 3631164.84 3631164.95 3631165.07 0.1867 0.0569

Mars 5230-10-05 00:57 G 3631555.47 3631555.54 3631555.61 0.1680 0.1515

Jupiter 5232-06-06 04:04 G 3632165.50 3632165.67 3632165.83 0.0487 0.0162

Jupiter 5232-09-04 05:16 G 3632255.68 3632255.72 3632255.75 0.0487 0.0478

Saturn 5238-02-08 17:31 G 3634239.13 3634239.23 3634239.34 0.0278 0.0186

Saturn 5238-05-08 06:28 G 3634327.63 3634327.77 3634327.90 0.0279 0.0072

Jupiter 5238-05-10 18:43 G 3634330.14 3634330.28 3634330.41 0.0541 0.0051

Moon 5238-06-18 00:57 G 3634368.46 3634368.54 3634368.62 0.2659 0.2254

Earth 5238-06-18 00:57 G 3634368.47 3634368.54 3634368.62 0.2652 0.2307 *

Saturn 5238-08-04 18:57 G 3634416.15 3634416.29 3634416.43 0.0280 0.0042

Saturn 5238-11-01 07:26 G 3634504.70 3634504.81 3634504.93 0.0280 0.0154

Saturn 5239-01-28 19:40 G 3634593.28 3634593.32 3634593.36 0.0281 0.0266

Mars 5239-01-30 18:57 G 3634595.20 3634595.29 3634595.37 0.1874 0.1302

Venus 5240-01-13 21:50 G 3634943.35 3634943.41 3634943.48 0.3679 0.2904

Mars 5240-02-25 01:40 G 3634985.42 3634985.57 3634985.72 0.1674 0.0671

Mars 5241-01-05 09:21 G 3635300.83 3635300.89 3635300.94 0.1847 0.1564

Venus 5241-07-28 21:35 G 3635505.32 3635505.40 3635505.48 0.3691 0.2989

Moon 5241-12-22 03:35 G 3635651.58 3635651.65 3635651.71 0.2674 0.2147

Earth 5241-12-22 03:50 G 3635651.59 3635651.66 3635651.72 0.2681 0.2197 *

Jupiter 5244-03-25 03:35 G 3636475.52 3636475.65 3636475.78 0.0487 0.0316

Jupiter 5244-06-23 04:04 G 3636565.54 3636565.67 3636565.81 0.0487 0.0316

Venus 5245-07-29 15:07 G 3636967.03 3636967.13 3636967.23 0.3679 0.1520

Venus 5247-02-12 00:28 G 3637529.38 3637529.52 3637529.66 0.3691 0.0315

Earth 5248-12-15 02:38 G 3638201.53 3638201.61 3638201.69 0.2676 0.1767

Moon 5248-12-15 03:21 G 3638201.55 3638201.64 3638201.72 0.2679 0.1617 *

Neptune 5249-07-10 18:14 G 3638409.19 3638409.26 3638409.33 0.0088 0.0080

Mars 5249-07-17 02:52 G 3638415.46 3638415.62 3638415.78 0.1668 0.0141

Neptune 5249-10-06 20:38 G 3638497.28 3638497.36 3638497.48 0.0088 0.0072

Neptune 5250-01-02 23:45 G 3638585.38 3638585.49 3638585.62 0.0088 0.0063

Jupiter 5250-02-26 22:04 G 3638640.29 3638640.42 3638640.55 0.0541 0.0105

Neptune 5250-04-01 02:24 G 3638673.48 3638673.60 3638673.76 0.0088 0.0055

Jupiter 5250-05-27 07:55 G 3638729.81 3638729.83 3638729.85 0.0540 0.0529

Mars 5250-05-28 18:00 G 3638731.15 3638731.25 3638731.35 0.1854 0.0898

Neptune 5250-06-28 05:31 G 3638761.59 3638761.73 3638761.89 0.0088 0.0046

Neptune 5250-09-24 08:24 G 3638849.69 3638849.85 3638850.02 0.0088 0.0037

Neptune 5250-12-21 11:31 G 3638937.81 3638937.98 3638938.15 0.0088 0.0028

Venus 5251-02-12 08:09 G 3638990.73 3638990.84 3638990.95 0.3680 0.0177

Neptune 5251-03-19 14:09 G 3639025.92 3639026.09 3639026.27 0.0088 0.0020

Neptune 5251-06-15 17:16 G 3639114.04 3639114.22 3639114.40 0.0088 0.0011

Neptune 5251-09-11 20:09 G 3639202.16 3639202.34 3639202.52 0.0088 0.0002

Saturn 5251-12-05 05:45 G 3639286.71 3639286.74 3639286.79 0.0281 0.0273

Neptune 5251-12-08 23:02 G 3639290.28 3639290.46 3639290.65 0.0088 0.0008

Saturn 5252-03-03 00:57 G 3639375.39 3639375.54 3639375.69 0.0281 0.0134

Neptune 5252-03-06 02:09 G 3639378.41 3639378.59 3639378.77 0.0088 0.0016

Saturn 5252-05-30 20:24 G 3639464.18 3639464.35 3639464.52 0.0280 0.0006

Neptune 5252-06-02 05:02 G 3639466.54 3639466.71 3639466.89 0.0088 0.0025

Saturn 5252-08-27 15:50 G 3639553.02 3639553.16 3639553.32 0.0279 0.0150

Venus	5252-08-28 04:04 G	3639553.57	3639553.67	3639553.77	0.3690	0.2537
Neptune	5252-08-29 07:55 G	3639554.67	3639554.83	3639555.00	0.0088	0.0034
Neptune	5252-11-25 10:48 G	3639642.80	3639642.95	3639643.12	0.0088	0.0043
Neptune	5253-02-21 13:55 G	3639730.94	3639731.08	3639731.23	0.0088	0.0052
Uranus	5253-02-22 11:16 G	3639731.93	3639731.97	3639732.03	0.0144	0.0137
Neptune	5253-05-20 16:48 G	3639819.08	3639819.20	3639819.34	0.0088	0.0061
Uranus	5253-05-21 18:43 G	3639820.17	3639820.28	3639820.41	0.0144	0.0109
Neptune	5253-08-16 19:55 G	3639907.23	3639907.33	3639907.45	0.0088	0.0070
Uranus	5253-08-18 02:09 G	3639908.45	3639908.59	3639908.75	0.0144	0.0081
Neptune	5253-11-12 22:33 G	3639995.39	3639995.44	3639995.54	0.0088	0.0080
Uranus	5253-11-14 10:04 G	3639996.75	3639996.92	3639997.09	0.0143	0.0052
Uranus	5254-02-10 17:31 G	3640085.05	3640085.23	3640085.42	0.0143	0.0023
Uranus	5254-05-10 01:11 G	3640173.37	3640173.55	3640173.74	0.0143	0.0006
Uranus	5254-08-06 08:52 G	3640261.69	3640261.87	3640262.05	0.0143	0.0035
Uranus	5254-11-02 16:48 G	3640350.03	3640350.20	3640350.36	0.0143	0.0064
Uranus	5255-01-30 00:14 G	3640438.38	3640438.51	3640438.66	0.0143	0.0093
Uranus	5255-04-28 07:55 G	3640526.75	3640526.83	3640526.94	0.0143	0.0122
Jupiter	5256-01-12 03:35 G	3640785.61	3640785.65	3640785.70	0.0487	0.0465
Jupiter	5256-04-11 03:35 G	3640875.49	3640875.65	3640875.82	0.0487	0.0161
Venus	5256-08-28 00:57 G	3641014.44	3641014.54	3641014.65	0.3681	0.1155
Earth	5258-06-12 20:24 G	3641668.32	3641668.35	3641668.38	0.2656	0.2591
Mars	5258-12-07 04:19 G	3641845.54	3641845.68	3641845.81	0.1663	0.0934
Mars	5259-10-19 02:24 G	3642161.49	3642161.60	3642161.72	0.1861	0.0217
Pluto	5259-12-24 10:04 G	3642227.89	3642227.92	3642228.00	0.0073	0.0070
Pluto	5260-03-21 12:28 G	3642315.92	3642316.02	3642316.14	0.0072	0.0057
Pluto	5260-06-17 14:24 G	3642403.97	3642404.10	3642404.26	0.0072	0.0044
Pluto	5260-09-13 16:48 G	3642492.03	3642492.20	3642492.36	0.0072	0.0032
Pluto	5260-12-10 18:43 G	3642580.11	3642580.28	3642580.46	0.0072	0.0019
Pluto	5261-03-08 20:38 G	3642668.18	3642668.36	3642668.55	0.0072	0.0007
Pluto	5261-06-04 22:48 G	3642756.26	3642756.45	3642756.63	0.0072	0.0005

Pluto	5261-09-01 00:43 G	3642844.35	3642844.53	3642844.71	0.0072	0.0017
Pluto	5261-11-28 02:24 G	3642932.44	3642932.60	3642932.78	0.0072	0.0029
Jupiter	5261-12-16 00:57 G	3642950.43	3642950.54	3642950.66	0.0541	0.0269
Earth	5261-12-17 20:38 G	3642952.25	3642952.36	3642952.47	0.2678	0.0336
Moon	5261-12-17 21:21 G	3642952.28	3642952.39	3642952.50	0.2675	0.0295 *
Pluto	5262-02-24 04:19 G	3643020.54	3643020.68	3643020.84	0.0071	0.0041
Venus	5262-03-13 17:45 G	3643038.17	3643038.24	3643038.32	0.3682	0.2435
Jupiter	5262-03-15 11:02 G	3643039.87	3643039.96	3643040.06	0.0540	0.0372
Pluto	5262-05-23 06:00 G	3643108.65	3643108.75	3643108.89	0.0071	0.0053
Pluto	5262-08-19 07:55 G	3643196.77	3643196.83	3643196.93	0.0071	0.0064
Saturn	5267-06-28 18:28 G	3644971.19	3644971.27	3644971.36	0.0279	0.0227
Saturn	5267-09-25 07:26 G	3645059.68	3645059.81	3645059.94	0.0280	0.0112
Venus	5267-09-27 10:19 G	3645061.93	3645061.93	3645061.94	0.3682	0.3676
Saturn	5267-12-22 20:09 G	3645148.20	3645148.34	3645148.48	0.0280	0.0003
Jupiter	5268-01-29 03:21 G	3645185.46	3645185.64	3645185.81	0.0487	0.0010
Saturn	5268-03-20 08:38 G	3645236.74	3645236.86	3645236.99	0.0281	0.0116
Saturn	5268-06-16 20:52 G	3645325.30	3645325.37	3645325.46	0.0281	0.0229
Mars	5269-03-10 10:48 G	3645591.84	3645591.95	3645592.07	0.1867	0.0502
Mars	5270-04-05 01:40 G	3645982.53	3645982.57	3645982.62	0.1680	0.1618
Moon	5271-06-16 00:43 G	3646419.38	3646419.53	3646419.69	0.2660	0.0140
Earth	5271-06-16 01:40 G	3646419.42	3646419.57	3646419.72	0.2654	0.0093 *
Jupiter	5273-10-04 03:50 G	3647260.58	3647260.66	3647260.74	0.0541	0.0435
Jupiter	5274-01-01 14:24 G	3647349.98	3647350.10	3647350.22	0.0540	0.0214
Earth	5274-12-20 14:38 G	3647703.01	3647703.11	3647703.21	0.2680	0.1087
Moon	5274-12-20 14:52 G	3647703.02	3647703.12	3647703.22	0.2674	0.1151 *
Mars	5278-07-31 18:57 G	3649022.21	3649022.29	3649022.38	0.1874	0.1228
Mars	5279-08-26 02:24 G	3649412.46	3649412.60	3649412.75	0.1674	0.0769
Jupiter	5279-11-17 02:52 G	3649495.45	3649495.62	3649495.78	0.0487	0.0151
Mars	5280-07-06 09:21 G	3649727.83	3649727.89	3649727.94	0.1847	0.1629
Saturn	5281-07-21 01:26 G	3650107.43	3650107.56	3650107.70	0.0281	0.0171

Saturn 5281-10-17 20:52 G 3650196.20 3650196.37 3650196.54 0.0280 0.0031

Saturn 5282-01-14 16:33 G 3650285.03 3650285.19 3650285.34 0.0280 0.0112

Saturn 5282-04-13 12:14 G 3650373.95 3650374.01 3650374.08 0.0279 0.0256

Jupiter 5285-10-20 17:02 G 3651660.08 3651660.21 3651660.34 0.0541 0.0050

Moon 5287-12-23 08:24 G 3652453.80 3652453.85 3652453.89 0.2675 0.2436

Earth 5287-12-23 08:38 G 3652453.82 3652453.86 3652453.90 0.2681 0.2484 *

Mars 5289-01-15 03:21 G 3652842.47 3652842.64 3652842.80 0.1668 0.0067

Mars 5289-11-26 18:00 G 3653158.15 3653158.25 3653158.35 0.1854 0.0967

Jupiter 5291-09-05 02:52 G 3653805.48 3653805.62 3653805.75 0.0486 0.0300

Jupiter 5291-12-04 03:21 G 3653895.51 3653895.64 3653895.77 0.0487 0.0332

Earth 5294-12-16 07:26 G 3655003.72 3655003.81 3655003.91 0.2677 0.1468

Moon 5294-12-16 08:09 G 3655003.75 3655003.84 3655003.94 0.2678 0.1423 *

Uranus 5296-05-26 06:57 G 3655530.73 3655530.79 3655530.85 0.0134 0.0118

Venus 5296-08-19 19:40 G 3655616.24 3655616.32 3655616.40 0.3679 0.2463

Uranus 5296-08-22 10:04 G 3655618.84 3655618.92 3655619.02 0.0134 0.0101

Saturn 5296-11-14 20:24 G 3655703.31 3655703.35 3655703.40 0.0278 0.0260

Uranus 5296-11-18 13:40 G 3655706.96 3655707.07 3655707.18 0.0135 0.0083

Saturn 5297-02-11 09:21 G 3655791.77 3655791.89 3655792.01 0.0278 0.0146

Uranus 5297-02-14 17:02 G 3655795.09 3655795.21 3655795.33 0.0135 0.0065

Saturn 5297-05-10 22:04 G 3655880.28 3655880.42 3655880.56 0.0279 0.0032

Uranus 5297-05-13 20:09 G 3655883.22 3655883.34 3655883.47 0.0135 0.0048

Saturn 5297-08-07 10:33 G 3655968.81 3655968.94 3655969.08 0.0280 0.0082

Jupiter 5297-08-08 20:38 G 3655970.23 3655970.36 3655970.49 0.0541 0.0104

Uranus 5297-08-09 23:31 G 3655971.35 3655971.48 3655971.62 0.0135 0.0030

Saturn 5297-11-03 23:02 G 3656057.36 3656057.46 3656057.56 0.0280 0.0193

Uranus 5297-11-06 02:52 G 3656059.49 3656059.62 3656059.76 0.0135 0.0012

Jupiter 5297-11-06 06:28 G 3656059.75 3656059.77 3656059.79 0.0540 0.0532 *

Uranus 5298-02-02 06:14 G 3656147.62 3656147.76 3656147.89 0.0135 0.0006

Venus 5298-03-04 22:04 G 3656178.30 3656178.42 3656178.53 0.3691 0.2194

Uranus 5298-05-01 09:21 G 3656235.76 3656235.89 3656236.03 0.0135 0.0023

Mars	5298-06-07 05:02 G	3656272.57	3656272.71	3656272.85	0.1663	0.0840
Uranus	5298-07-28 12:43 G	3656323.90	3656324.03	3656324.16	0.0135	0.0040
Uranus	5298-10-24 15:50 G	3656412.04	3656412.16	3656412.29	0.0135	0.0058
Uranus	5299-01-20 18:57 G	3656500.19	3656500.29	3656500.41	0.0135	0.0075
Uranus	5299-04-18 22:19 G	3656588.34	3656588.43	3656588.53	0.0135	0.0092
Mars	5299-04-19 02:38 G	3656588.49	3656588.61	3656588.72	0.1860	0.0283 *
Uranus	5299-07-16 01:26 G	3656676.49	3656676.56	3656676.64	0.0135	0.0109
Uranus	5299-10-12 04:33 G	3656764.66	3656764.69	3656764.74	0.0135	0.0127
Venus	5302-03-06 12:57 G	3657639.94	3657640.04	3657640.15	0.3680	0.1080
Jupiter	5303-06-25 02:24 G	3658115.55	3658115.60	3658115.67	0.0486	0.0453
Venus	5303-09-20 00:57 G	3658202.40	3658202.54	3658202.68	0.3690	0.0550
Jupiter	5303-09-23 02:38 G	3658205.44	3658205.61	3658205.77	0.0487	0.0171
Moon	5304-06-14 01:26 G	3658470.48	3658470.56	3658470.63	0.2660	0.2287
Earth	5304-06-14 02:38 G	3658470.52	3658470.61	3658470.70	0.2656	0.2072 *
Venus	5307-09-20 06:00 G	3659663.64	3659663.75	3659663.86	0.3680	0.0254
Mars	5307-10-29 06:43 G	3659702.75	3659702.78	3659702.82	0.1657	0.1604
Earth	5307-12-20 01:40 G	3659754.45	3659754.57	3659754.68	0.2678	0.0100
Moon	5307-12-20 02:09 G	3659754.48	3659754.59	3659754.70	0.2675	0.0143 *
Mars	5308-09-09 11:02 G	3660018.84	3660018.96	3660019.07	0.1867	0.0429
Venus	5309-04-05 04:48 G	3660226.65	3660226.70	3660226.75	0.3689	0.3421
Jupiter	5309-05-29 00:00 G	3660280.39	3660280.50	3660280.62	0.0541	0.0258
Jupiter	5309-08-26 10:19 G	3660369.84	3660369.93	3660370.02	0.0540	0.0386
Saturn	5310-12-08 22:33 G	3660839.35	3660839.44	3660839.54	0.0281	0.0230
Saturn	5311-03-07 17:45 G	3660928.08	3660928.24	3660928.40	0.0281	0.0091
Saturn	5311-06-04 13:11 G	3661016.88	3661017.05	3661017.22	0.0280	0.0051
Saturn	5311-09-01 09:07 G	3661105.75	3661105.88	3661106.00	0.0279	0.0193
Venus	5313-04-04 22:48 G	3661687.36	3661687.45	3661687.55	0.3681	0.1565
Jupiter	5315-07-12 02:09 G	3662515.42	3662515.59	3662515.76	0.0487	0.0016
Moon	5317-06-17 07:26 G	3663221.66	3663221.81	3663221.96	0.2659	0.0633
Earth	5317-06-17 08:09 G	3663221.69	3663221.84	3663221.99	0.2654	0.0629 *

Mars 5318-01-30 18:57 G 3663449.20 3663449.29 3663449.39 0.1874 0.1162

Venus 5318-10-19 15:35 G 3663711.08 3663711.15 3663711.22 0.3682 0.2831

Mars 5319-02-25 03:07 G 3663839.49 3663839.63 3663839.77 0.1674 0.0859

Mars 5320-01-06 09:21 G 3664154.84 3664154.89 3664154.93 0.1847 0.1696

Moon 5320-12-21 19:40 G 3664505.22 3664505.32 3664505.41 0.2673 0.1340

Earth 5320-12-21 19:26 G 3664505.22 3664505.31 3664505.41 0.2680 0.1385 *

Jupiter 5321-03-17 02:52 G 3664590.54 3664590.62 3664590.71 0.0541 0.0422

Jupiter 5321-06-14 13:26 G 3664679.94 3664680.06 3664680.18 0.0540 0.0228

Saturn 5326-07-02 10:19 G 3666523.83 3666523.93 3666524.04 0.0279 0.0187

Saturn 5326-09-28 23:02 G 3666612.33 3666612.46 3666612.60 0.0279 0.0073

Saturn 5326-12-26 11:45 G 3666700.85 3666700.99 3666701.13 0.0280 0.0042

Saturn 5327-03-25 00:14 G 3666789.39 3666789.51 3666789.62 0.0281 0.0154

Jupiter 5327-04-30 01:55 G 3666825.41 3666825.58 3666825.74 0.0487 0.0138

Saturn 5327-06-21 12:28 G 3666877.98 3666878.02 3666878.06 0.0281 0.0266

Earth 5327-12-15 18:14 G 3667055.24 3667055.26 3667055.28 0.2675 0.2613

Moon 5327-12-15 18:43 G 3667055.25 3667055.28 3667055.30 0.2681 0.2585 *

Mars 5328-07-17 04:04 G 3667269.51 3667269.67 3667269.84 0.1668 0.0059

Mars 5329-05-28 18:00 G 3667585.15 3667585.25 3667585.35 0.1854 0.1031

Neptune 5331-07-24 18:57 G 3668372.27 3668372.29 3668372.34 0.0089 0.0087

Neptune 5331-10-20 20:52 G 3668460.31 3668460.37 3668460.44 0.0089 0.0079

Neptune 5332-01-16 22:19 G 3668548.36 3668548.43 3668548.53 0.0089 0.0072

Neptune 5332-04-14 00:00 G 3668636.41 3668636.50 3668636.61 0.0089 0.0064

Neptune 5332-07-11 01:40 G 3668724.47 3668724.57 3668724.69 0.0089 0.0057

Neptune 5332-10-07 03:21 G 3668812.53 3668812.64 3668812.77 0.0089 0.0049

Neptune 5333-01-03 05:02 G 3668900.59 3668900.71 3668900.84 0.0089 0.0042

Neptune 5333-04-01 06:43 G 3668988.65 3668988.78 3668988.91 0.0089 0.0034

Jupiter 5333-04-02 16:33 G 3668990.06 3668990.19 3668990.32 0.0540 0.0067

Neptune 5333-06-28 08:24 G 3669076.72 3669076.85 3669076.98 0.0089 0.0027

Neptune 5333-09-24 10:04 G 3669164.78 3669164.92 3669165.05 0.0089 0.0020

Neptune 5333-12-21 11:31 G 3669252.84 3669252.98 3669253.12 0.0089 0.0012

Neptune	5334-03-19 13:11 G	3669340.91	3669341.05	3669341.19	0.0089	0.0005
Neptune	5334-06-15 14:52 G	3669428.98	3669429.12	3669429.26	0.0089	0.0004
Neptune	5334-09-11 16:19 G	3669517.04	3669517.18	3669517.32	0.0089	0.0010
Neptune	5334-12-08 17:45 G	3669605.11	3669605.24	3669605.38	0.0089	0.0018
Neptune	5335-03-06 19:26 G	3669693.18	3669693.31	3669693.45	0.0089	0.0024
Neptune	5335-06-02 20:52 G	3669781.25	3669781.37	3669781.51	0.0089	0.0032
Neptune	5335-08-29 22:33 G	3669869.32	3669869.44	3669869.57	0.0089	0.0039
Neptune	5335-11-26 00:14 G	3669957.39	3669957.51	3669957.63	0.0089	0.0046
Neptune	5336-02-22 01:40 G	3670045.46	3670045.57	3670045.68	0.0089	0.0053
Neptune	5336-05-20 02:52 G	3670133.53	3670133.62	3670133.74	0.0089	0.0061
Neptune	5336-08-16 04:33 G	3670221.61	3670221.69	3670221.79	0.0089	0.0067
Neptune	5336-11-12 06:00 G	3670309.69	3670309.75	3670309.84	0.0089	0.0075
Neptune	5337-02-08 07:26 G	3670397.77	3670397.81	3670397.88	0.0089	0.0082
Uranus	5337-03-15 18:00 G	3670433.19	3670433.25	3670433.33	0.0144	0.0132
Neptune	5337-05-07 09:07 G	3670485.87	3670485.88	3670485.91	0.0089	0.0088
Uranus	5337-06-12 01:26 G	3670521.44	3670521.56	3670521.69	0.0144	0.0104
Uranus	5337-09-08 09:07 G	3670609.73	3670609.88	3670610.04	0.0144	0.0076
Uranus	5337-12-05 16:33 G	3670698.02	3670698.19	3670698.37	0.0143	0.0047
Mars	5337-12-07 05:31 G	3670699.59	3670699.73	3670699.87	0.1663	0.0757
Uranus	5338-03-04 00:14 G	3670786.33	3670786.51	3670786.70	0.0143	0.0019
Uranus	5338-05-31 07:55 G	3670874.65	3670874.83	3670875.02	0.0143	0.0011
Uranus	5338-08-27 15:35 G	3670962.97	3670963.15	3670963.33	0.0143	0.0039
Mars	5338-10-19 02:38 G	3671015.49	3671015.61	3671015.72	0.1861	0.0350
Uranus	5338-11-23 23:16 G	3671051.31	3671051.47	3671051.64	0.0143	0.0069
Jupiter	5339-02-16 01:40 G	3671135.43	3671135.57	3671135.71	0.0487	0.0288
Uranus	5339-02-20 07:11 G	3671139.66	3671139.80	3671139.94	0.0143	0.0097
Jupiter	5339-05-17 02:09 G	3671225.47	3671225.59	3671225.72	0.0487	0.0344
Uranus	5339-05-19 14:38 G	3671228.04	3671228.11	3671228.21	0.0143	0.0127
Saturn	5340-04-26 23:02 G	3671571.41	3671571.46	3671571.50	0.0281	0.0269
Saturn	5340-07-24 18:00 G	3671660.10	3671660.25	3671660.40	0.0281	0.0130

Saturn	5340-10-21 13:26 G	3671748.89	3671749.06	3671749.23	0.0280	0.0011	
Earth	5340-12-17 12:28 G	3671805.92	3671806.02	3671806.12	0.2677	0.1171	
Moon	5340-12-17 13:11 G	3671805.94	3671806.05	3671806.15	0.2677	0.1016	*
Saturn	5341-01-18 09:07 G	3671837.74	3671837.88	3671838.03	0.0280	0.0154	
Jupiter	5345-01-19 18:57 G	3673300.16	3673300.29	3673300.43	0.0541	0.0105	
Jupiter	5345-04-19 04:48 G	3673389.69	3673389.70	3673389.72	0.0540	0.0533	
Mars	5347-04-29 07:11 G	3674129.74	3674129.80	3674129.87	0.1657	0.1521	
Venus	5347-09-12 00:14 G	3674265.48	3674265.51	3674265.55	0.3678	0.3418	
Mars	5348-03-10 11:02 G	3674445.85	3674445.96	3674446.08	0.1867	0.0356	
Moon	5350-06-15 07:40 G	3675272.71	3675272.82	3675272.94	0.2660	0.1691	
Earth	5350-06-15 09:07 G	3675272.75	3675272.88	3675273.00	0.2655	0.1547	*
Jupiter	5350-12-05 01:40 G	3675445.50	3675445.57	3675445.65	0.0486	0.0436	
Jupiter	5351-03-05 01:40 G	3675535.41	3675535.57	3675535.74	0.0487	0.0188	
Venus	5353-03-27 17:45 G	3676289.15	3676289.24	3676289.33	0.3679	0.2014	
Earth	5353-12-20 06:28 G	3676556.66	3676556.77	3676556.88	0.2679	0.0265	
Moon	5353-12-20 06:57 G	3676556.68	3676556.79	3676556.90	0.2675	0.0290	*
Venus	5354-10-10 22:33 G	3676851.31	3676851.44	3676851.57	0.3691	0.1363	
Saturn	5355-11-19 12:28 G	3677255.94	3677256.02	3677256.11	0.0278	0.0218	
Saturn	5356-02-16 01:11 G	3677344.43	3677344.55	3677344.69	0.0278	0.0105	
Saturn	5356-05-14 13:55 G	3677432.94	3677433.08	3677433.22	0.0279	0.0010	
Saturn	5356-08-11 02:24 G	3677521.48	3677521.60	3677521.73	0.0280	0.0121	
Saturn	5356-11-07 14:38 G	3677610.04	3677610.11	3677610.19	0.0280	0.0233	
Jupiter	5356-11-07 22:19 G	3677610.32	3677610.43	3677610.55	0.0541	0.0259	
Jupiter	5357-02-05 08:38 G	3677699.77	3677699.86	3677699.95	0.0541	0.0386	
Mars	5357-07-31 19:11 G	3677876.20	3677876.30	3677876.39	0.1874	0.1091	
Mars	5358-08-26 03:50 G	3678266.52	3678266.66	3678266.79	0.1674	0.0955	
Venus	5358-10-11 10:48 G	3678312.85	3678312.95	3678313.06	0.3680	0.0653	
Mars	5359-07-07 09:21 G	3678581.86	3678581.89	3678581.92	0.1846	0.1765	
Venus	5360-04-26 01:40 G	3678875.44	3678875.57	3678875.70	0.3690	0.1399	
Jupiter	5362-12-22 00:57 G	3679845.37	3679845.54	3679845.72	0.0487	0.0028	

Moon	5363-06-18 14:09 G	3680023.95	3680024.09	3680024.23	0.2660	0.1054
Earth	5363-06-18 14:24 G	3680023.97	3680024.10	3680024.24	0.2653	0.1165 *
Venus	5364-04-26 03:50 G	3680336.55	3680336.66	3680336.77	0.3681	0.0676
Mars	5366-12-22 03:07 G	3681306.61	3681306.63	3681306.65	0.1880	0.1837
Moon	5366-12-23 00:28 G	3681307.43	3681307.52	3681307.60	0.2673	0.1735
Earth	5366-12-23 00:28 G	3681307.43	3681307.52	3681307.60	0.2680	0.1676 *
Mars	5368-01-16 04:48 G	3681696.54	3681696.70	3681696.86	0.1668	0.0132
Jupiter	5368-08-27 01:55 G	3681920.49	3681920.58	3681920.66	0.0541	0.0413
Jupiter	5368-11-24 12:28 G	3682009.90	3682010.02	3682010.13	0.0541	0.0238
Mars	5368-11-26 18:00 G	3682012.16	3682012.25	3682012.34	0.1854	0.1101
Venus	5369-11-09 20:38 G	3682360.27	3682360.36	3682360.45	0.3681	0.1972
Saturn	5369-12-11 15:21 G	3682392.02	3682392.14	3682392.27	0.0281	0.0187
Saturn	5370-03-10 10:48 G	3682480.78	3682480.95	3682481.12	0.0281	0.0047
Saturn	5370-06-07 06:14 G	3682569.60	3682569.76	3682569.93	0.0280	0.0095
Saturn	5370-09-04 02:09 G	3682658.50	3682658.59	3682658.68	0.0279	0.0238
Earth	5373-12-15 23:02 G	3683857.41	3683857.46	3683857.52	0.2675	0.2311
Moon	5373-12-15 23:45 G	3683857.43	3683857.49	3683857.54	0.2680	0.2238 *
Jupiter	5374-10-10 00:43 G	3684155.36	3684155.53	3684155.70	0.0487	0.0125
Venus	5375-05-26 13:26 G	3684384.01	3684384.06	3684384.11	0.3682	0.3232
Mars	5377-06-07 06:14 G	3685126.61	3685126.76	3685126.91	0.1663	0.0661
Mars	5378-04-19 02:38 G	3685442.50	3685442.61	3685442.73	0.1860	0.0424
Uranus	5380-03-20 10:19 G	3686143.92	3686143.93	3686143.96	0.0134	0.0132
Uranus	5380-06-16 13:55 G	3686232.01	3686232.08	3686232.15	0.0134	0.0114
Jupiter	5380-09-12 15:35 G	3686320.02	3686320.15	3686320.28	0.0540	0.0080
Uranus	5380-09-12 17:16 G	3686320.13	3686320.22	3686320.32	0.0134	0.0097 *
Uranus	5380-12-09 20:24 G	3686408.25	3686408.35	3686408.47	0.0135	0.0080
Uranus	5381-03-08 00:00 G	3686496.38	3686496.50	3686496.62	0.0135	0.0062
Uranus	5381-06-04 03:21 G	3686584.51	3686584.64	3686584.77	0.0135	0.0044
Uranus	5381-08-31 06:28 G	3686672.64	3686672.77	3686672.91	0.0135	0.0027
Uranus	5381-11-27 09:50 G	3686760.78	3686760.91	3686761.05	0.0135	0.0010

Uranus 5382-02-23 13:11 G 3686848.91 3686849.05 3686849.19 0.0135 0.0009

Uranus 5382-05-22 16:33 G 3686937.05 3686937.19 3686937.32 0.0135 0.0026

Uranus 5382-08-18 19:40 G 3687025.19 3687025.32 3687025.45 0.0135 0.0043

Uranus 5382-11-14 22:48 G 3687113.34 3687113.45 3687113.58 0.0135 0.0061

Uranus 5383-02-11 02:09 G 3687201.48 3687201.59 3687201.70 0.0135 0.0078

Uranus 5383-05-10 05:16 G 3687289.63 3687289.72 3687289.82 0.0135 0.0095

Uranus 5383-08-06 08:38 G 3687377.79 3687377.86 3687377.93 0.0135 0.0113

Uranus 5383-11-02 11:45 G 3687465.96 3687465.99 3687466.03 0.0135 0.0130

Saturn 5385-04-07 13:11 G 3687988.01 3687988.05 3687988.10 0.0278 0.0260

Saturn 5385-07-05 02:09 G 3688076.47 3688076.59 3688076.71 0.0279 0.0146

Saturn 5385-10-01 14:52 G 3688164.98 3688165.12 3688165.26 0.0279 0.0032

Saturn 5385-12-29 03:21 G 3688253.51 3688253.64 3688253.78 0.0280 0.0082

Saturn 5386-03-27 15:50 G 3688342.06 3688342.16 3688342.26 0.0281 0.0193

Jupiter 5386-07-29 00:28 G 3688465.38 3688465.52 3688465.66 0.0487 0.0278

Jupiter 5386-10-27 01:11 G 3688555.43 3688555.55 3688555.67 0.0487 0.0356

Mars 5386-10-28 07:55 G 3688556.75 3688556.83 3688556.91 0.1657 0.1430

Earth 5386-12-18 17:16 G 3688608.11 3688608.22 3688608.32 0.2677 0.0866

Moon 5386-12-18 18:00 G 3688608.14 3688608.25 3688608.36 0.2677 0.0794 *

Mars 5387-09-09 11:02 G 3688872.84 3688872.96 3688873.07 0.1867 0.0292

Jupiter 5392-07-01 18:43 G 3690630.14 3690630.28 3690630.41 0.0541 0.0085

Moon 5396-06-15 14:09 G 3692074.95 3692075.09 3692075.22 0.2659 0.1192

Earth 5396-06-15 15:21 G 3692075.00 3692075.14 3692075.28 0.2655 0.1024 *

Mars 5397-01-29 19:11 G 3692303.21 3692303.30 3692303.40 0.1874 0.1012

Mars 5398-02-24 04:19 G 3692693.56 3692693.68 3692693.81 0.1674 0.1048

Jupiter 5398-05-17 00:28 G 3692775.44 3692775.52 3692775.61 0.0486 0.0425

Jupiter 5398-08-15 00:28 G 3692865.36 3692865.52 3692865.68 0.0487 0.0200

Mars 5399-01-05 09:21 G 3693008.88 3693008.89 3693008.90 0.1847 0.1828

Saturn 5399-04-30 15:21 G 3693124.05 3693124.14 3693124.25 0.0281 0.0227

Saturn 5399-07-28 10:33 G 3693212.78 3693212.94 3693213.11 0.0281 0.0088

Saturn 5399-10-25 06:14 G 3693301.59 3693301.76 3693301.93 0.0280 0.0054

Earth 5399-12-21 11:16 G 3693358.86 3693358.97 3693359.08 0.2679 0.0559

Moon 5399-12-21 11:45 G 3693358.88 3693358.99 3693359.10 0.2674 0.0672 *

Saturn 5400-01-22 01:55 G 3693390.46 3693390.58 3693390.71 0.0279 0.0197

Venus 5404-04-18 22:19 G 3694938.37 3694938.43 3694938.49 0.3679 0.2961

Jupiter 5404-04-20 20:52 G 3694940.25 3694940.37 3694940.49 0.0541 0.0258

Jupiter 5404-07-19 07:11 G 3695029.71 3695029.80 3695029.89 0.0541 0.0387

Venus 5405-11-01 20:09 G 3695500.27 3695500.34 3695500.41 0.3691 0.3178

Mars 5406-06-23 03:07 G 3695733.60 3695733.63 3695733.67 0.1880 0.1763

Mars 5407-07-18 05:16 G 3696123.56 3696123.72 3696123.88 0.1669 0.0221

Mars 5408-05-28 18:14 G 3696439.17 3696439.26 3696439.35 0.1853 0.1177

Moon 5409-06-19 20:52 G 3696826.26 3696826.37 3696826.49 0.2660 0.1753

Earth 5409-06-19 20:52 G 3696826.26 3696826.37 3696826.49 0.2653 0.1707 *

Venus 5409-11-02 15:35 G 3696962.05 3696962.15 3696962.25 0.3679 0.1570

Jupiter 5410-06-04 00:14 G 3697175.34 3697175.51 3697175.68 0.0487 0.0045

Venus 5411-05-18 23:02 G 3697524.32 3697524.46 3697524.60 0.3691 0.0530

Moon 5412-12-24 05:16 G 3698109.64 3698109.72 3698109.79 0.2673 0.1900

Earth 5412-12-24 05:16 G 3698109.64 3698109.72 3698109.79 0.2680 0.1968 *

Neptune 5414-01-10 14:38 G 3698492.07 3698492.11 3698492.16 0.0088 0.0084

Neptune 5414-04-08 17:16 G 3698580.14 3698580.22 3698580.32 0.0088 0.0076

Neptune 5414-07-05 20:09 G 3698668.24 3698668.34 3698668.46 0.0088 0.0067

Neptune 5414-10-01 22:48 G 3698756.34 3698756.45 3698756.60 0.0088 0.0059

Saturn 5414-11-23 04:48 G 3698808.59 3698808.70 3698808.81 0.0278 0.0174

Neptune 5414-12-29 01:55 G 3698844.44 3698844.58 3698844.73 0.0088 0.0050

Saturn 5415-02-19 17:31 G 3698897.09 3698897.23 3698897.37 0.0279 0.0060

Neptune 5415-03-27 04:48 G 3698932.55 3698932.70 3698932.86 0.0088 0.0041

Saturn 5415-05-19 06:00 G 3698985.62 3698985.75 3698985.89 0.0279 0.0053

Venus 5415-05-19 08:38 G 3698985.75 3698985.86 3698985.97 0.3680 0.0240 *

Neptune 5415-06-23 07:26 G 3699020.66 3699020.81 3699020.99 0.0088 0.0033

Saturn 5415-08-15 18:28 G 3699074.16 3699074.27 3699074.38 0.0280 0.0164

Neptune 5415-09-19 10:33 G 3699108.77 3699108.94 3699109.12 0.0088 0.0024

Saturn 5415-11-12 06:43 G 3699162.76 3699162.78 3699162.81 0.0280 0.0274

Neptune 5415-12-16 13:26 G 3699196.89 3699197.06 3699197.24 0.0088 0.0015

Jupiter 5416-02-08 00:14 G 3699250.42 3699250.51 3699250.59 0.0542 0.0417

Neptune 5416-03-13 16:33 G 3699285.01 3699285.19 3699285.37 0.0088 0.0006

Jupiter 5416-05-07 10:48 G 3699339.83 3699339.95 3699340.07 0.0541 0.0236

Neptune 5416-06-09 19:26 G 3699373.13 3699373.31 3699373.49 0.0088 0.0003

Neptune 5416-09-05 22:19 G 3699461.25 3699461.43 3699461.61 0.0088 0.0012

Venus 5416-12-02 02:24 G 3699548.49 3699548.60 3699548.71 0.3689 0.2278

Neptune 5416-12-03 01:11 G 3699549.38 3699549.55 3699549.73 0.0088 0.0021

Mars 5416-12-07 06:57 G 3699553.63 3699553.79 3699553.94 0.1663 0.0574

Neptune 5417-03-01 04:04 G 3699637.51 3699637.67 3699637.85 0.0088 0.0030

Neptune 5417-05-28 06:57 G 3699725.64 3699725.79 3699725.96 0.0088 0.0039

Neptune 5417-08-24 09:50 G 3699813.77 3699813.91 3699814.08 0.0088 0.0048

Mars 5417-10-19 02:38 G 3699869.50 3699869.61 3699869.72 0.1860 0.0487

Neptune 5417-11-20 12:43 G 3699901.91 3699902.03 3699902.19 0.0088 0.0057

Neptune 5418-02-16 15:50 G 3699990.05 3699990.16 3699990.29 0.0088 0.0066

Neptune 5418-05-15 18:43 G 3700078.21 3700078.28 3700078.39 0.0088 0.0075

Neptune 5418-08-11 21:50 G 3700166.37 3700166.41 3700166.48 0.0088 0.0084

Earth 5419-12-18 04:04 G 3700659.59 3700659.67 3700659.74 0.2676 0.2005

Moon 5419-12-18 04:33 G 3700659.62 3700659.69 3700659.77 0.2678 0.1891 *

Venus 5420-12-02 01:40 G 3701009.47 3701009.57 3701009.67 0.3681 0.1097

Uranus 5421-04-06 00:28 G 3701134.46 3701134.52 3701134.62 0.0144 0.0128

Uranus 5421-07-03 08:09 G 3701222.72 3701222.84 3701222.98 0.0144 0.0099

Uranus 5421-09-29 15:50 G 3701311.00 3701311.16 3701311.32 0.0144 0.0071

Uranus 5421-12-26 23:16 G 3701399.30 3701399.47 3701399.65 0.0144 0.0043

Jupiter 5422-03-22 23:31 G 3701485.31 3701485.48 3701485.65 0.0487 0.0114

Uranus 5422-03-25 06:57 G 3701487.61 3701487.79 3701487.98 0.0143 0.0014

Uranus 5422-06-21 14:38 G 3701575.93 3701576.11 3701576.30 0.0143 0.0015

Uranus 5422-09-17 22:19 G 3701664.26 3701664.43 3701664.61 0.0143 0.0044

Pluto 5422-11-22 20:52 G 3701730.35 3701730.37 3701730.42 0.0071 0.0068

Uranus 5422-12-15 06:00 G 3701752.60 3701752.75 3701752.92 0.0143 0.0073

Pluto 5423-02-18 21:50 G 3701818.35 3701818.41 3701818.49 0.0071 0.0059

Uranus 5423-03-13 13:40 G 3701840.95 3701841.07 3701841.21 0.0143 0.0102

Pluto 5423-05-17 22:48 G 3701906.36 3701906.45 3701906.55 0.0071 0.0050

Uranus 5423-06-09 21:35 G 3701929.33 3701929.40 3701929.48 0.0143 0.0131

Pluto 5423-08-13 23:31 G 3701994.38 3701994.48 3701994.60 0.0071 0.0042

Pluto 5423-11-10 00:28 G 3702082.40 3702082.52 3702082.64 0.0071 0.0033

Pluto 5424-02-06 01:11 G 3702170.42 3702170.55 3702170.68 0.0072 0.0024

Pluto 5424-05-04 02:09 G 3702258.45 3702258.59 3702258.72 0.0072 0.0015

Pluto 5424-07-31 02:52 G 3702346.49 3702346.62 3702346.76 0.0072 0.0006

Pluto 5424-10-27 03:50 G 3702434.52 3702434.66 3702434.80 0.0072 0.0004

Pluto 5425-01-23 04:33 G 3702522.56 3702522.69 3702522.83 0.0072 0.0013

Pluto 5425-04-21 05:31 G 3702610.60 3702610.73 3702610.86 0.0072 0.0022

Pluto 5425-07-18 06:00 G 3702698.64 3702698.75 3702698.89 0.0072 0.0033

Pluto 5425-10-14 06:57 G 3702786.69 3702786.79 3702786.92 0.0072 0.0042

Pluto 5426-01-10 08:09 G 3702874.74 3702874.84 3702874.94 0.0072 0.0051

Pluto 5426-04-08 08:52 G 3702962.80 3702962.87 3702962.95 0.0073 0.0061

Mars 5426-04-29 08:38 G 3702983.77 3702983.86 3702983.95 0.1658 0.1342

Venus 5426-06-17 18:28 G 3703033.19 3703033.27 3703033.35 0.3682 0.2381

Pluto 5426-07-05 09:35 G 3703050.88 3703050.90 3703050.95 0.0073 0.0071

Mars 5427-03-11 11:16 G 3703299.85 3703299.97 3703300.08 0.1867 0.0218

Jupiter 5428-02-24 14:24 G 3703649.97 3703650.10 3703650.23 0.0541 0.0086

Saturn 5428-09-17 13:26 G 3703856.05 3703856.06 3703856.08 0.0282 0.0280

Saturn 5428-12-15 08:38 G 3703944.71 3703944.86 3703945.00 0.0281 0.0141

Saturn 5429-03-14 03:50 G 3704033.49 3704033.66 3704033.83 0.0280 0.0004

Saturn 5429-06-10 23:31 G 3704122.33 3704122.48 3704122.63 0.0280 0.0141

Venus 5432-01-01 11:02 G 3705056.95 3705056.96 3705056.98 0.3682 0.3629

Earth 5432-12-19 22:04 G 3705410.31 3705410.42 3705410.53 0.2677 0.0568

Moon 5432-12-19 22:48 G 3705410.34 3705410.45 3705410.56 0.2677 0.0440 *

Jupiter 5434-01-08 23:16 G 3705795.33 3705795.47 3705795.62 0.0487 0.0266

Jupiter 5434-04-08 23:45 G 3705885.38 3705885.49 3705885.61 0.0487 0.0366

Mars 5436-07-31 19:11 G 3706730.20 3706730.30 3706730.40 0.1873 0.0946

Mars 5437-08-26 05:16 G 3707120.60 3707120.72 3707120.83 0.1674 0.1147

Jupiter 5439-12-13 17:31 G 3707960.10 3707960.23 3707960.36 0.0541 0.0073

Moon 5442-06-17 20:52 G 3708877.22 3708877.37 3708877.51 0.2660 0.0648

Earth 5442-06-17 21:50 G 3708877.26 3708877.41 3708877.56 0.2655 0.0494 *

Saturn 5444-04-11 05:31 G 3709540.64 3709540.73 3709540.82 0.0278 0.0216

Saturn 5444-07-08 18:14 G 3709629.13 3709629.26 3709629.40 0.0279 0.0102

Saturn 5444-10-05 06:57 G 3709717.65 3709717.79 3709717.93 0.0280 0.0013

Saturn 5445-01-01 19:26 G 3709806.19 3709806.31 3709806.44 0.0280 0.0124

Saturn 5445-03-31 07:40 G 3709894.75 3709894.82 3709894.90 0.0281 0.0235

Jupiter 5445-10-27 23:02 G 3710105.38 3710105.46 3710105.55 0.0487 0.0418

Mars 5445-12-22 03:07 G 3710160.59 3710160.63 3710160.68 0.1880 0.1697

Earth 5445-12-22 16:04 G 3710161.07 3710161.17 3710161.28 0.2679 0.0860

Moon 5445-12-22 16:33 G 3710161.08 3710161.19 3710161.29 0.2673 0.0864 *

Jupiter 5446-01-25 23:16 G 3710195.31 3710195.47 3710195.63 0.0487 0.0208

Mars 5447-01-16 06:00 G 3710550.59 3710550.75 3710550.92 0.1669 0.0321

Mars 5447-11-27 18:00 G 3710866.17 3710866.25 3710866.34 0.1853 0.1236

Jupiter 5451-10-01 20:24 G 3712270.23 3712270.35 3712270.47 0.0541 0.0238

Jupiter 5451-12-30 06:28 G 3712359.69 3712359.77 3712359.86 0.0540 0.0404

Moon 5455-06-21 03:21 G 3713628.56 3713628.64 3713628.72 0.2660 0.2230

Earth 5455-06-21 03:21 G 3713628.56 3713628.64 3713628.72 0.2653 0.2244 *

Mars 5456-06-07 07:26 G 3713980.65 3713980.81 3713980.96 0.1663 0.0487

Mars 5457-04-19 02:52 G 3714296.51 3714296.62 3714296.73 0.1860 0.0562

Jupiter 5457-11-13 22:48 G 3714505.28 3714505.45 3714505.63 0.0487 0.0056

Saturn 5458-05-04 08:24 G 3714676.73 3714676.85 3714676.98 0.0281 0.0182

Saturn 5458-08-01 03:50 G 3714765.49 3714765.66 3714765.83 0.0281 0.0042

Saturn 5458-10-28 23:16 G 3714854.31 3714854.47 3714854.64 0.0280 0.0100

Moon 5458-12-25 09:50 G 3714911.86 3714911.91 3714911.97 0.2674 0.2284

Earth 5458-12-25 10:04 G 3714911.86 3714911.92 3714911.98 0.2681 0.2257 *

Saturn	5459-01-25 19:11 G	3714943.22	3714943.30	3714943.39	0.0279	0.0244
Venus	5460-11-23 20:09 G	3715611.27	3715611.34	3715611.42	0.3679	0.2512
Venus	5462-06-08 20:38 G	3716173.26	3716173.36	3716173.47	0.3691	0.2367
Jupiter	5463-07-20 22:33 G	3716580.35	3716580.44	3716580.52	0.0541	0.0418
Jupiter	5463-10-18 09:07 G	3716669.76	3716669.88	3716670.00	0.0541	0.0235
Uranus	5464-04-10 17:16 G	3716845.19	3716845.22	3716845.26	0.0134	0.0129
Uranus	5464-07-07 20:38 G	3716933.30	3716933.36	3716933.45	0.0134	0.0112
Uranus	5464-10-04 00:14 G	3717021.41	3717021.51	3717021.61	0.0134	0.0094
Uranus	5464-12-31 03:21 G	3717109.54	3717109.64	3717109.76	0.0135	0.0077
Uranus	5465-03-29 06:43 G	3717197.67	3717197.78	3717197.91	0.0135	0.0059
Uranus	5465-06-25 10:19 G	3717285.80	3717285.93	3717286.06	0.0135	0.0041
Uranus	5465-09-21 13:26 G	3717373.93	3717374.06	3717374.20	0.0135	0.0024
Mars	5465-10-28 09:07 G	3717410.78	3717410.88	3717410.98	0.1658	0.1259
Earth	5465-12-18 08:52 G	3717461.79	3717461.87	3717461.96	0.2676	0.1704
Moon	5465-12-18 09:35 G	3717461.81	3717461.90	3717461.99	0.2678	0.1644 *
Uranus	5465-12-18 16:48 G	3717462.07	3717462.20	3717462.34	0.0135	0.0006
Uranus	5466-03-16 20:09 G	3717550.20	3717550.34	3717550.47	0.0135	0.0012
Venus	5466-06-09 13:26 G	3717634.96	3717635.06	3717635.17	0.3680	0.1135
Uranus	5466-06-12 23:16 G	3717638.34	3717638.47	3717638.61	0.0135	0.0029
Uranus	5466-09-09 02:38 G	3717726.48	3717726.61	3717726.74	0.0135	0.0046
Mars	5466-09-09 11:16 G	3717726.85	3717726.97	3717727.09	0.1867	0.0143
Uranus	5466-12-06 05:45 G	3717814.63	3717814.74	3717814.86	0.0135	0.0064
Uranus	5467-03-04 08:52 G	3717902.77	3717902.87	3717902.99	0.0135	0.0082
Uranus	5467-05-31 12:14 G	3717990.92	3717991.01	3717991.10	0.0135	0.0098
Uranus	5467-08-27 15:21 G	3718079.08	3718079.14	3718079.22	0.0135	0.0116
Uranus	5467-11-23 18:43 G	3718167.26	3718167.28	3718167.30	0.0136	0.0133
Venus	5467-12-23 23:31 G	3718197.34	3718197.48	3718197.62	0.3690	0.0323
Jupiter	5469-09-01 22:33 G	3718815.27	3718815.44	3718815.61	0.0486	0.0099
Venus	5471-12-24 06:28 G	3719658.67	3719658.77	3719658.88	0.3680	0.0252
Venus	5473-07-09 03:07 G	3720221.56	3720221.63	3720221.70	0.3689	0.3173

Saturn	5473-08-29 08:24 G	3720272.78	3720272.85	3720272.92	0.0278	0.0241	
Saturn	5473-11-25 21:21 G	3720361.26	3720361.39	3720361.51	0.0278	0.0127	
Saturn	5474-02-22 09:50 G	3720449.77	3720449.91	3720450.05	0.0279	0.0017	
Saturn	5474-05-21 22:19 G	3720538.31	3720538.43	3720538.57	0.0279	0.0098	
Saturn	5474-08-18 10:48 G	3720626.86	3720626.95	3720627.04	0.0280	0.0209	
Earth	5475-06-15 23:02 G	3720928.44	3720928.46	3720928.48	0.2657	0.2626	
Jupiter	5475-08-06 12:28 G	3720979.89	3720980.02	3720980.15	0.0541	0.0081	
Mars	5476-01-30 19:26 G	3721157.20	3721157.31	3721157.41	0.1873	0.0874	
Mars	5477-02-24 05:45 G	3721547.63	3721547.74	3721547.85	0.1675	0.1238	
Venus	5477-07-08 23:31 G	3721682.38	3721682.48	3721682.58	0.3681	0.1514	
Earth	5478-12-21 03:07 G	3722212.52	3722212.63	3722212.74	0.2677	0.0276	
Moon	5478-12-21 03:35 G	3722212.54	3722212.65	3722212.77	0.2675	0.0192	*
Jupiter	5481-06-20 21:50 G	3723125.27	3723125.41	3723125.56	0.0486	0.0258	
Jupiter	5481-09-18 22:19 G	3723215.32	3723215.43	3723215.55	0.0487	0.0375	
Venus	5483-01-22 16:19 G	3723706.11	3723706.18	3723706.25	0.3682	0.2786	
Mars	5485-06-22 03:21 G	3724587.58	3724587.64	3724587.70	0.1880	0.1618	
Mars	5486-07-17 06:43 G	3724977.62	3724977.78	3724977.94	0.1669	0.0412	
Jupiter	5487-05-25 16:04 G	3725290.04	3725290.17	3725290.30	0.0541	0.0071	
Mars	5487-05-28 18:14 G	3725293.18	3725293.26	3725293.34	0.1853	0.1308	
Saturn	5487-09-21 06:57 G	3725408.70	3725408.79	3725408.89	0.0282	0.0231	
Saturn	5487-12-19 02:09 G	3725497.43	3725497.59	3725497.76	0.0281	0.0092	
Saturn	5488-03-16 21:35 G	3725586.23	3725586.40	3725586.57	0.0280	0.0050	
Saturn	5488-06-13 17:31 G	3725675.10	3725675.23	3725675.35	0.0280	0.0192	
Moon	5488-06-18 03:35 G	3725679.50	3725679.65	3725679.80	0.2661	0.0059	
Earth	5488-06-18 04:19 G	3725679.52	3725679.68	3725679.83	0.2655	0.0077	*
Earth	5491-12-23 20:52 G	3726963.28	3726963.37	3726963.47	0.2679	0.1159	
Moon	5491-12-23 21:21 G	3726963.29	3726963.39	3726963.49	0.2672	0.1226	*
Jupiter	5493-04-08 21:50 G	3727435.32	3727435.41	3727435.50	0.0486	0.0408	
Jupiter	5493-07-07 21:50 G	3727525.25	3727525.41	3727525.57	0.0487	0.0216	
Mars	5495-12-07 08:09 G	3728407.68	3728407.84	3728408.00	0.1663	0.0394	

Neptune 5496-04-20 19:11 G 3728543.25 3728543.30 3728543.35 0.0089 0.0083

Neptune 5496-07-17 20:38 G 3728631.29 3728631.36 3728631.44 0.0089 0.0075

Neptune 5496-10-13 22:04 G 3728719.34 3728719.42 3728719.53 0.0089 0.0068

Mars 5496-10-18 02:52 G 3728723.51 3728723.62 3728723.73 0.1860 0.0627

Neptune 5497-01-10 00:00 G 3728807.40 3728807.50 3728807.61 0.0089 0.0060

Neptune 5497-04-08 01:26 G 3728895.46 3728895.56 3728895.68 0.0089 0.0053

Neptune 5497-07-05 03:21 G 3728983.52 3728983.64 3728983.76 0.0089 0.0046

Neptune 5497-10-01 04:48 G 3729071.58 3729071.70 3729071.83 0.0089 0.0038

Neptune 5497-12-28 06:28 G 3729159.64 3729159.77 3729159.91 0.0089 0.0031

Neptune 5498-03-26 08:09 G 3729247.71 3729247.84 3729247.98 0.0089 0.0023

Neptune 5498-06-22 09:35 G 3729335.77 3729335.90 3729336.05 0.0089 0.0017

Neptune 5498-09-18 11:16 G 3729423.83 3729423.97 3729424.11 0.0089 0.0009

Neptune 5498-12-15 12:57 G 3729511.90 3729512.04 3729512.18 0.0089 0.0002

Neptune 5499-03-13 14:38 G 3729599.97 3729600.11 3729600.25 0.0089 0.0006

Jupiter 5499-03-13 19:11 G 3729600.18 3729600.30 3729600.42 0.0541 0.0231 *

Neptune 5499-06-09 16:04 G 3729688.04 3729688.17 3729688.31 0.0089 0.0013

Jupiter 5499-06-11 05:16 G 3729689.64 3729689.72 3729689.81 0.0540 0.0412

Neptune 5499-09-05 17:45 G 3729776.10 3729776.24 3729776.38 0.0089 0.0020

Neptune 5499-12-02 19:11 G 3729864.17 3729864.30 3729864.44 0.0089 0.0028

Neptune 5500-02-28 20:52 G 3729952.24 3729952.37 3729952.50 0.0089 0.0035

Neptune 5500-05-27 22:19 G 3730040.31 3730040.43 3730040.56 0.0089 0.0042

Neptune 5500-08-23 23:45 G 3730128.39 3730128.49 3730128.62 0.0089 0.0050

Neptune 5500-11-20 01:26 G 3730216.46 3730216.56 3730216.67 0.0089 0.0056

Neptune 5501-02-16 02:52 G 3730304.53 3730304.62 3730304.73 0.0089 0.0064

Neptune 5501-05-15 04:33 G 3730392.61 3730392.69 3730392.78 0.0089 0.0070

Neptune 5501-08-11 06:00 G 3730480.69 3730480.75 3730480.82 0.0089 0.0078

Neptune 5501-11-07 07:26 G 3730568.78 3730568.81 3730568.86 0.0089 0.0085

Saturn 5503-04-15 22:04 G 3731093.31 3731093.42 3731093.54 0.0278 0.0169

Saturn 5503-07-13 11:02 G 3731181.82 3731181.96 3731182.09 0.0279 0.0056

Saturn 5503-10-09 23:31 G 3731270.34 3731270.48 3731270.62 0.0280 0.0058

Saturn 5504-01-06 12:00 G 3731358.89 3731359.00 3731359.11 0.0280 0.0170

Saturn 5504-04-04 00:00 G 3731447.50 3731447.50 3731447.52 0.0281 0.0280

Moon 5504-12-26 14:38 G 3731714.07 3731714.11 3731714.15 0.2675 0.2457

Earth 5504-12-26 14:52 G 3731714.09 3731714.12 3731714.15 0.2681 0.2552 *

Jupiter 5505-04-26 21:21 G 3731835.21 3731835.39 3731835.56 0.0487 0.0060

Uranus 5505-04-27 07:40 G 3731835.74 3731835.82 3731835.93 0.0144 0.0122

Mars 5505-04-29 09:50 G 3731837.80 3731837.91 3731838.02 0.1658 0.1165

Uranus 5505-07-24 15:35 G 3731924.01 3731924.15 3731924.28 0.0144 0.0093

Uranus 5505-10-20 23:02 G 3732012.30 3732012.46 3732012.62 0.0144 0.0065

Uranus 5506-01-17 06:28 G 3732100.60 3732100.77 3732100.95 0.0143 0.0036

Mars 5506-03-11 11:16 G 3732153.85 3732153.97 3732154.09 0.1867 0.0079

Uranus 5506-04-15 14:09 G 3732188.91 3732189.09 3732189.28 0.0143 0.0008

Uranus 5506-07-12 21:50 G 3732277.23 3732277.41 3732277.59 0.0143 0.0021

Uranus 5506-10-09 05:31 G 3732365.56 3732365.73 3732365.90 0.0143 0.0050

Uranus 5507-01-05 13:11 G 3732453.90 3732454.05 3732454.21 0.0143 0.0079

Uranus 5507-04-03 20:52 G 3732542.25 3732542.37 3732542.50 0.0143 0.0108

Uranus 5507-07-01 04:48 G 3732630.65 3732630.70 3732630.75 0.0143 0.0137

Pluto 5508-07-16 15:21 G 3733012.12 3733012.14 3733012.21 0.0073 0.0071

Pluto 5508-10-12 17:45 G 3733100.14 3733100.24 3733100.36 0.0072 0.0058

Pluto 5509-01-08 19:40 G 3733188.19 3733188.32 3733188.48 0.0072 0.0045

Pluto 5509-04-06 21:50 G 3733276.26 3733276.41 3733276.58 0.0072 0.0033

Pluto 5509-07-04 00:00 G 3733364.33 3733364.50 3733364.68 0.0072 0.0020

Pluto 5509-09-30 01:55 G 3733452.40 3733452.58 3733452.77 0.0072 0.0008

Pluto 5509-12-27 04:04 G 3733540.49 3733540.67 3733540.85 0.0072 0.0004

Pluto 5510-03-25 05:45 G 3733628.57 3733628.74 3733628.93 0.0072 0.0017

Pluto 5510-06-21 07:40 G 3733716.66 3733716.82 3733717.00 0.0072 0.0029

Pluto 5510-09-17 09:21 G 3733804.76 3733804.89 3733805.06 0.0072 0.0041

Pluto 5510-12-14 11:45 G 3733892.87 3733892.99 3733893.12 0.0071 0.0052

Jupiter 5510-12-31 21:50 G 3733910.32 3733910.41 3733910.50 0.0541 0.0399

Pluto 5511-03-12 13:26 G 3733980.99 3733981.06 3733981.15 0.0071 0.0064

Jupiter	5511-03-31 08:24 G	3733999.74	3733999.85	3733999.97	0.0540	0.0253	
Venus	5511-12-17 00:43 G	3734260.50	3734260.53	3734260.57	0.3678	0.3463	
Earth	5511-12-20 13:40 G	3734263.98	3734264.07	3734264.17	0.2676	0.1406	
Moon	5511-12-20 14:24 G	3734264.01	3734264.10	3734264.20	0.2678	0.1254	*
Mars	5515-08-01 19:26 G	3735584.21	3735584.31	3735584.42	0.1873	0.0797	
Mars	5516-08-26 06:28 G	3735974.67	3735974.77	3735974.87	0.1675	0.1333	
Saturn	5517-02-08 07:11 G	3736140.76	3736140.80	3736140.84	0.0282	0.0270	
Jupiter	5517-02-12 21:07 G	3736145.21	3736145.38	3736145.55	0.0487	0.0092	
Saturn	5517-05-08 02:09 G	3736229.44	3736229.59	3736229.74	0.0281	0.0132	
Venus	5517-07-01 18:14 G	3736284.17	3736284.26	3736284.35	0.3679	0.2059	
Saturn	5517-08-04 21:35 G	3736318.23	3736318.40	3736318.57	0.0280	0.0008	
Saturn	5517-11-01 17:02 G	3736407.07	3736407.21	3736407.37	0.0280	0.0151	
Venus	5519-01-14 21:07 G	3736846.25	3736846.38	3736846.51	0.3691	0.1553	
Moon	5521-06-17 03:50 G	3737730.58	3737730.66	3737730.75	0.2659	0.2184	
Earth	5521-06-17 05:16 G	3737730.63	3737730.72	3737730.82	0.2656	0.2102	*
Venus	5523-01-15 11:31 G	3738307.87	3738307.98	3738308.08	0.3680	0.0705	
Jupiter	5523-01-17 10:48 G	3738309.82	3738309.95	3738310.08	0.0541	0.0078	
Venus	5524-07-31 00:14 G	3738870.37	3738870.51	3738870.64	0.3690	0.1173	
Mars	5524-12-22 03:21 G	3739014.58	3739014.64	3739014.71	0.1879	0.1549	
Earth	5524-12-22 07:55 G	3739014.72	3739014.83	3739014.94	0.2678	0.0046	
Moon	5524-12-22 08:24 G	3739014.74	3739014.85	3739014.97	0.2674	0.0116	*
Mars	5526-01-16 07:11 G	3739404.65	3739404.80	3739404.96	0.1669	0.0494	
Mars	5526-11-27 18:14 G	3739720.19	3739720.26	3739720.34	0.1853	0.1379	
Venus	5528-07-31 04:19 G	3740331.58	3740331.68	3740331.79	0.3681	0.0650	
Jupiter	5528-12-01 20:52 G	3740455.23	3740455.37	3740455.52	0.0486	0.0244	
Jupiter	5529-03-01 21:21 G	3740545.29	3740545.39	3740545.50	0.0487	0.0389	
Saturn	5532-09-02 01:11 G	3741825.45	3741825.55	3741825.66	0.0278	0.0191	
Saturn	5532-11-29 14:09 G	3741913.95	3741914.09	3741914.22	0.0279	0.0078	
Saturn	5533-02-26 02:38 G	3742002.48	3742002.61	3742002.75	0.0279	0.0036	
Saturn	5533-05-25 15:07 G	3742091.02	3742091.13	3742091.25	0.0280	0.0147	

Saturn	5533-08-22 03:35 G	3742179.60	3742179.65	3742179.70	0.0280	0.0257	
Venus	5534-02-13 21:21 G	3742355.30	3742355.39	3742355.48	0.3681	0.1926	
Moon	5534-06-20 10:04 G	3742481.77	3742481.92	3742482.07	0.2661	0.0436	
Earth	5534-06-20 10:33 G	3742481.79	3742481.94	3742482.09	0.2655	0.0586	*
Jupiter	5534-11-05 13:55 G	3742619.95	3742620.08	3742620.22	0.0541	0.0082	
Mars	5535-06-08 08:52 G	3742834.71	3742834.87	3742835.03	0.1663	0.0298	
Mars	5536-04-19 02:52 G	3743150.51	3743150.62	3743150.73	0.1860	0.0698	
Earth	5537-12-25 01:55 G	3743765.48	3743765.58	3743765.67	0.2679	0.1449	
Moon	5537-12-25 02:09 G	3743765.49	3743765.59	3743765.68	0.2673	0.1464	*
Venus	5539-08-30 13:55 G	3744379.03	3744379.08	3744379.13	0.3682	0.3178	
Jupiter	5540-09-19 20:24 G	3744765.25	3744765.35	3744765.44	0.0486	0.0402	
Jupiter	5540-12-18 20:09 G	3744855.19	3744855.34	3744855.50	0.0487	0.0222	
Mars	5544-10-28 10:19 G	3746264.81	3746264.93	3746265.06	0.1658	0.1080	
Earth	5544-12-18 00:28 G	3746315.49	3746315.52	3746315.55	0.2674	0.2553	
Moon	5544-12-18 00:57 G	3746315.50	3746315.54	3746315.59	0.2679	0.2423	*
Mars	5545-09-09 11:16 G	3746580.86	3746580.97	3746581.09	0.1867	0.0039	
Jupiter	5546-08-24 17:31 G	3746930.11	3746930.23	3746930.35	0.0542	0.0234	
Saturn	5546-09-25 01:26 G	3746961.43	3746961.56	3746961.69	0.0281	0.0176	
Jupiter	5546-11-22 03:50 G	3747019.57	3747019.66	3747019.74	0.0541	0.0411	
Saturn	5546-12-22 20:38 G	3747050.19	3747050.36	3747050.53	0.0281	0.0037	
Saturn	5547-03-21 16:04 G	3747139.02	3747139.17	3747139.34	0.0280	0.0105	
Saturn	5547-06-18 12:00 G	3747227.92	3747228.00	3747228.08	0.0279	0.0248	
Uranus	5548-05-02 00:28 G	3747546.48	3747546.52	3747546.57	0.0134	0.0125	
Uranus	5548-07-29 03:50 G	3747634.59	3747634.66	3747634.75	0.0134	0.0108	
Uranus	5548-10-25 07:11 G	3747722.71	3747722.80	3747722.91	0.0135	0.0090	
Uranus	5549-01-21 10:33 G	3747810.83	3747810.94	3747811.06	0.0135	0.0072	
Uranus	5549-04-19 13:55 G	3747898.96	3747899.08	3747899.21	0.0135	0.0055	
Uranus	5549-07-16 17:16 G	3747987.09	3747987.22	3747987.35	0.0135	0.0037	
Uranus	5549-10-12 20:38 G	3748075.22	3748075.36	3748075.49	0.0135	0.0020	
Uranus	5550-01-09 00:00 G	3748163.36	3748163.50	3748163.63	0.0135	0.0004	

Uranus	5550-04-07 03:07 G	3748251.50	3748251.63	3748251.77	0.0135	0.0016
Uranus	5550-07-04 06:28 G	3748339.64	3748339.77	3748339.90	0.0135	0.0033
Uranus	5550-09-30 09:35 G	3748427.78	3748427.90	3748428.03	0.0135	0.0050
Uranus	5550-12-27 12:57 G	3748515.92	3748516.04	3748516.16	0.0135	0.0067
Uranus	5551-03-25 16:04 G	3748604.07	3748604.17	3748604.28	0.0135	0.0085
Uranus	5551-06-21 19:11 G	3748692.22	3748692.30	3748692.40	0.0135	0.0102
Uranus	5551-09-17 22:19 G	3748780.38	3748780.43	3748780.50	0.0135	0.0120
Jupiter	5552-10-06 19:40 G	3749165.15	3749165.32	3749165.49	0.0487	0.0065
Mars	5555-01-30 19:26 G	3750011.20	3750011.31	3750011.42	0.1873	0.0732
Mars	5556-02-25 07:11 G	3750401.71	3750401.80	3750401.88	0.1675	0.1427
Earth	5557-12-20 18:43 G	3751066.18	3751066.28	3751066.38	0.2676	0.1101
Moon	5557-12-20 19:26 G	3751066.21	3751066.31	3751066.41	0.2678	0.1057 *
Jupiter	5558-06-12 20:38 G	3751240.27	3751240.36	3751240.45	0.0541	0.0396
Jupiter	5558-09-10 07:11 G	3751329.68	3751329.80	3751329.91	0.0541	0.0256
Saturn	5562-01-20 02:09 G	3752557.52	3752557.59	3752557.67	0.0278	0.0232
Saturn	5562-04-18 15:07 G	3752646.00	3752646.13	3752646.26	0.0279	0.0118
Saturn	5562-07-16 03:50 G	3752734.52	3752734.66	3752734.80	0.0279	0.0006
Saturn	5562-10-12 16:19 G	3752823.06	3752823.18	3752823.31	0.0280	0.0108
Saturn	5563-01-09 04:48 G	3752911.61	3752911.70	3752911.78	0.0281	0.0218
Mars	5564-06-22 03:35 G	3753441.57	3753441.65	3753441.72	0.1880	0.1477
Jupiter	5564-07-25 19:11 G	3753475.13	3753475.30	3753475.47	0.0487	0.0091
Mars	5565-07-17 08:09 G	3753831.69	3753831.84	3753831.99	0.1669	0.0598
Mars	5566-05-28 18:14 G	3754147.19	3754147.26	3754147.33	0.1853	0.1442
Moon	5567-06-18 10:33 G	3754532.83	3754532.94	3754533.04	0.2660	0.1831
Earth	5567-06-18 11:45 G	3754532.86	3754532.99	3754533.11	0.2656	0.1583 *
Venus	5568-07-22 22:48 G	3754933.39	3754933.45	3754933.51	0.3679	0.3004
Venus	5570-02-04 18:57 G	3755495.24	3755495.29	3755495.35	0.3692	0.3343
Jupiter	5570-06-29 10:04 G	3755639.79	3755639.92	3755640.05	0.0541	0.0094
Earth	5570-12-23 12:43 G	3755816.92	3755817.03	3755817.14	0.2678	0.0328
Moon	5570-12-23 13:11 G	3755816.94	3755817.05	3755817.16	0.2673	0.0455 *

Venus 5574-02-05 16:04 G 3756957.08 3756957.17 3756957.27 0.3679 0.1618

Mars 5574-12-07 09:21 G 3757261.73 3757261.89 3757262.05 0.1663 0.0219

Venus 5575-08-21 21:35 G 3757519.26 3757519.40 3757519.54 0.3691 0.0733

Mars 5575-10-19 02:52 G 3757577.52 3757577.62 3757577.73 0.1860 0.0769

Saturn 5576-02-12 01:40 G 3757693.46 3757693.57 3757693.67 0.0281 0.0216

Saturn 5576-05-10 20:38 G 3757782.20 3757782.36 3757782.53 0.0281 0.0077

Jupiter 5576-05-13 19:11 G 3757785.15 3757785.30 3757785.45 0.0487 0.0240

Saturn 5576-08-07 16:04 G 3757871.01 3757871.17 3757871.34 0.0280 0.0064

Jupiter 5576-08-11 19:40 G 3757875.22 3757875.32 3757875.42 0.0487 0.0393

Saturn 5576-11-04 12:00 G 3757959.88 3757960.00 3757960.11 0.0279 0.0207

Neptune 5578-10-08 13:40 G 3758663.01 3758663.07 3758663.14 0.0088 0.0080

Neptune 5579-01-04 16:19 G 3758751.09 3758751.18 3758751.29 0.0088 0.0072

Neptune 5579-04-02 19:11 G 3758839.19 3758839.30 3758839.43 0.0088 0.0063

Neptune 5579-06-29 21:50 G 3758927.29 3758927.41 3758927.57 0.0088 0.0055

Venus 5579-08-22 09:21 G 3758980.78 3758980.89 3758981.00 0.3680 0.0291

Neptune 5579-09-26 00:57 G 3759015.40 3759015.54 3759015.70 0.0088 0.0046

Neptune 5579-12-23 03:50 G 3759103.51 3759103.66 3759103.83 0.0088 0.0037

Neptune 5580-03-20 06:57 G 3759191.62 3759191.79 3759191.96 0.0088 0.0028

Neptune 5580-06-16 09:35 G 3759279.73 3759279.90 3759280.08 0.0088 0.0020

Moon 5580-06-20 16:33 G 3759284.06 3759284.19 3759284.33 0.2661 0.1161

Earth 5580-06-20 17:02 G 3759284.07 3759284.21 3759284.35 0.2654 0.1122 *

Neptune 5580-09-12 12:28 G 3759367.85 3759368.02 3759368.21 0.0088 0.0011

Neptune 5580-12-09 15:35 G 3759455.97 3759456.15 3759456.33 0.0088 0.0002

Venus 5581-03-07 00:43 G 3759543.42 3759543.53 3759543.65 0.3690 0.2030

Neptune 5581-03-07 18:28 G 3759544.09 3759544.27 3759544.45 0.0088 0.0007

Neptune 5581-06-03 21:21 G 3759632.22 3759632.39 3759632.57 0.0088 0.0016

Neptune 5581-08-31 00:14 G 3759720.34 3759720.51 3759720.69 0.0088 0.0025

Neptune 5581-11-27 03:07 G 3759808.47 3759808.63 3759808.80 0.0088 0.0034

Neptune 5582-02-23 06:00 G 3759896.60 3759896.75 3759896.92 0.0088 0.0043

Jupiter 5582-04-17 12:14 G 3759949.88 3759950.01 3759950.14 0.0541 0.0084

Neptune 5582-05-22 08:52 G 3759984.74 3759984.87 3759985.03 0.0088 0.0052

Neptune 5582-08-18 11:45 G 3760072.88 3760072.99 3760073.14 0.0088 0.0061

Neptune 5582-11-14 14:52 G 3760161.02 3760161.12 3760161.24 0.0088 0.0070

Neptune 5583-02-10 17:45 G 3760249.18 3760249.24 3760249.34 0.0088 0.0079

Neptune 5583-05-09 21:07 G 3760337.38 3760337.38 3760337.39 0.0088 0.0088

Moon 5583-12-26 06:43 G 3760567.70 3760567.78 3760567.87 0.2673 0.1738

Earth 5583-12-26 06:43 G 3760567.70 3760567.78 3760567.86 0.2679 0.1742 *

Mars 5584-04-28 11:02 G 3760691.83 3760691.96 3760692.09 0.1658 0.0995

Venus 5585-03-07 02:24 G 3761004.49 3761004.60 3761004.70 0.3681 0.1063

Mars 5585-03-10 11:31 G 3761007.86 3761007.98 3761008.09 0.1866 0.0087

Jupiter 5588-03-01 19:11 G 3762095.20 3762095.30 3762095.40 0.0486 0.0391

Jupiter 5588-05-30 18:57 G 3762185.14 3762185.29 3762185.45 0.0487 0.0234

Uranus 5589-02-18 07:55 G 3762448.81 3762448.83 3762448.86 0.0144 0.0142

Uranus 5589-05-17 15:21 G 3762537.03 3762537.14 3762537.25 0.0144 0.0114

Uranus 5589-08-13 22:48 G 3762625.31 3762625.45 3762625.60 0.0144 0.0086

Uranus 5589-11-10 06:14 G 3762713.60 3762713.76 3762713.94 0.0144 0.0058

Uranus 5590-02-06 13:55 G 3762801.90 3762802.08 3762802.26 0.0143 0.0029

Uranus 5590-05-05 21:35 G 3762890.21 3762890.40 3762890.58 0.0143 0.0000

Uranus 5590-08-02 05:16 G 3762978.54 3762978.72 3762978.90 0.0143 0.0029

Venus 5590-09-20 18:57 G 3763028.21 3763028.29 3763028.38 0.3682 0.2327

Uranus 5590-10-29 12:57 G 3763066.87 3763067.04 3763067.21 0.0143 0.0057

Earth 5590-12-19 05:16 G 3763117.67 3763117.72 3763117.78 0.2675 0.2248

Moon 5590-12-19 06:00 G 3763117.69 3763117.75 3763117.81 0.2679 0.2225 *

Uranus 5591-01-25 20:38 G 3763155.21 3763155.36 3763155.51 0.0143 0.0086

Uranus 5591-04-24 04:19 G 3763243.58 3763243.68 3763243.79 0.0143 0.0115

Saturn 5591-06-09 05:31 G 3763289.68 3763289.73 3763289.79 0.0278 0.0253

Saturn 5591-09-05 18:28 G 3763378.15 3763378.27 3763378.40 0.0278 0.0139

Saturn 5591-12-03 07:26 G 3763466.67 3763466.81 3763466.95 0.0279 0.0026

Saturn 5592-02-29 19:55 G 3763555.20 3763555.33 3763555.46 0.0280 0.0087

Saturn 5592-05-28 08:09 G 3763643.75 3763643.84 3763643.94 0.0280 0.0198

Jupiter	5594-02-03 15:07 G	3764260.02	3764260.13	3764260.25	0.0541	0.0247
Jupiter	5594-05-04 01:26 G	3764349.48	3764349.56	3764349.65	0.0541	0.0400
Mars	5594-07-31 19:26 G	3764438.20	3764438.31	3764438.42	0.1873	0.0662
Mars	5595-08-26 07:55 G	3764828.76	3764828.83	3764828.89	0.1675	0.1526
Venus	5596-04-05 11:45 G	3765051.97	3765051.99	3765052.01	0.3683	0.3573
Jupiter	5600-03-18 17:45 G	3766495.07	3766495.24	3766495.41	0.0487	0.0068
Earth	5603-12-21 23:31 G	3767868.37	3767868.48	3767868.59	0.2676	0.0802
Moon	5603-12-22 00:14 G	3767868.40	3767868.51	3767868.62	0.2676	0.0639 *
Mars	5603-12-22 03:35 G	3767868.57	3767868.65	3767868.73	0.1879	0.1403 *
Mars	5605-01-15 08:38 G	3768258.72	3768258.86	3768259.01	0.1669	0.0689
Saturn	5605-07-01 01:40 G	3768425.50	3768425.57	3768425.65	0.0282	0.0253
Saturn	5605-09-27 20:38 G	3768514.21	3768514.36	3768514.52	0.0281	0.0115
Jupiter	5605-11-22 18:28 G	3768570.18	3768570.27	3768570.36	0.0542	0.0403
Mars	5605-11-26 18:14 G	3768574.20	3768574.26	3768574.33	0.1853	0.1512
Saturn	5605-12-25 16:04 G	3768603.00	3768603.17	3768603.34	0.0280	0.0025
Jupiter	5606-02-20 05:16 G	3768659.60	3768659.72	3768659.83	0.0541	0.0251
Saturn	5606-03-24 11:31 G	3768691.85	3768691.98	3768692.13	0.0280	0.0167
Jupiter	5612-01-05 17:16 G	3770805.05	3770805.22	3770805.39	0.0486	0.0089
Moon	5613-06-18 17:02 G	3771335.07	3771335.21	3771335.35	0.2661	0.1107
Earth	5613-06-18 18:00 G	3771335.11	3771335.25	3771335.39	0.2656	0.1056 *
Mars	5614-06-07 10:04 G	3771688.76	3771688.92	3771689.08	0.1664	0.0120
Mars	5615-04-19 03:07 G	3772004.52	3772004.63	3772004.73	0.1860	0.0840
Earth	5616-12-23 17:31 G	3772619.12	3772619.23	3772619.34	0.2678	0.0627
Moon	5616-12-23 18:00 G	3772619.15	3772619.25	3772619.36	0.2673	0.0659 *
Jupiter	5617-12-09 08:38 G	3772969.73	3772969.86	3772969.99	0.0541	0.0096
Saturn	5621-01-22 19:40 G	3774110.21	3774110.32	3774110.43	0.0278	0.0178
Saturn	5621-04-21 08:38 G	3774198.72	3774198.86	3774198.99	0.0279	0.0064
Saturn	5621-07-18 21:07 G	3774287.25	3774287.38	3774287.52	0.0280	0.0049
Saturn	5621-10-15 09:35 G	3774375.79	3774375.90	3774376.01	0.0280	0.0160
Saturn	5622-01-11 21:50 G	3774464.38	3774464.41	3774464.45	0.0281	0.0271

Jupiter 5623-10-24 16:48 G 3775115.06 3775115.20 3775115.36 0.0487 0.0244

Mars 5623-10-28 11:45 G 3775118.85 3775118.99 3775119.12 0.1658 0.0903

Jupiter 5624-01-22 17:16 G 3775205.12 3775205.22 3775205.33 0.0487 0.0390

Mars 5624-09-08 11:16 G 3775434.86 3775434.97 3775435.09 0.1867 0.0144

Venus 5625-02-26 20:52 G 3775606.29 3775606.37 3775606.44 0.3679 0.2555

Moon 5626-06-21 23:16 G 3776086.34 3776086.47 3776086.59 0.2661 0.1528

Earth 5626-06-21 23:31 G 3776086.36 3776086.48 3776086.60 0.2654 0.1656 *

Venus 5626-09-11 19:26 G 3776168.21 3776168.31 3776168.40 0.3691 0.2551

Jupiter 5629-09-27 11:31 G 3777279.84 3777279.98 3777280.11 0.0541 0.0072

Moon 5629-12-26 11:31 G 3777369.91 3777369.98 3777370.05 0.2673 0.2048

Earth 5629-12-26 11:31 G 3777369.91 3777369.98 3777370.05 0.2680 0.2035 *

Venus 5630-09-12 13:55 G 3777629.98 3777630.08 3777630.19 0.3680 0.1192

Venus 5632-03-27 22:04 G 3778192.28 3778192.42 3778192.56 0.3690 0.0133

Uranus 5632-05-22 07:40 G 3778247.76 3778247.82 3778247.87 0.0134 0.0122

Uranus 5632-08-18 10:48 G 3778335.87 3778335.95 3778336.04 0.0134 0.0104

Uranus 5632-11-14 14:09 G 3778423.99 3778424.09 3778424.20 0.0135 0.0087

Uranus 5633-02-10 17:31 G 3778512.12 3778512.23 3778512.35 0.0135 0.0069

Uranus 5633-05-09 20:52 G 3778600.25 3778600.37 3778600.50 0.0135 0.0051

Uranus 5633-08-06 00:14 G 3778688.38 3778688.51 3778688.64 0.0135 0.0034

Uranus 5633-11-02 03:35 G 3778776.51 3778776.65 3778776.78 0.0135 0.0016

Uranus 5634-01-29 06:43 G 3778864.65 3778864.78 3778864.92 0.0135 0.0005

Mars 5634-01-29 19:40 G 3778865.21 3778865.32 3778865.43 0.1873 0.0581

Uranus 5634-04-27 10:04 G 3778952.79 3778952.92 3778953.06 0.0135 0.0019

Uranus 5634-07-24 13:26 G 3779040.93 3779041.06 3779041.19 0.0135 0.0036

Uranus 5634-10-20 16:33 G 3779129.07 3779129.19 3779129.32 0.0135 0.0053

Uranus 5635-01-16 19:55 G 3779217.21 3779217.33 3779217.44 0.0135 0.0071

Saturn 5635-02-14 20:52 G 3779246.23 3779246.37 3779246.51 0.0281 0.0155

Mars 5635-02-24 08:24 G 3779255.81 3779255.85 3779255.89 0.1675 0.1617

Uranus 5635-04-14 22:48 G 3779305.36 3779305.45 3779305.56 0.0135 0.0089

Saturn 5635-05-14 16:04 G 3779335.00 3779335.17 3779335.34 0.0280 0.0016

Uranus	5635-07-12 02:09 G	3779393.51	3779393.59	3779393.68	0.0135	0.0105	
Saturn	5635-08-11 11:31 G	3779423.83	3779423.98	3779424.14	0.0280	0.0126	
Jupiter	5635-08-12 17:02 G	3779425.11	3779425.21	3779425.31	0.0486	0.0390	
Uranus	5635-10-08 05:16 G	3779481.68	3779481.72	3779481.79	0.0136	0.0123	
Saturn	5635-11-08 07:26 G	3779512.77	3779512.81	3779512.86	0.0279	0.0268	
Jupiter	5635-11-10 17:02 G	3779515.06	3779515.21	3779515.36	0.0487	0.0235	
Venus	5636-03-28 07:11 G	3779653.69	3779653.80	3779653.91	0.3681	0.0184	
Earth	5636-12-19 10:19 G	3779919.85	3779919.93	3779920.00	0.2675	0.1945	
Moon	5636-12-19 10:48 G	3779919.87	3779919.95	3779920.03	0.2679	0.1814	*
Venus	5637-10-12 01:26 G	3780216.48	3780216.56	3780216.65	0.3689	0.2906	
Jupiter	5641-07-16 13:26 G	3781589.94	3781590.06	3781590.18	0.0541	0.0251	
Venus	5641-10-12 00:00 G	3781677.40	3781677.50	3781677.60	0.3681	0.1460	
Jupiter	5641-10-13 23:45 G	3781679.40	3781679.49	3781679.58	0.0540	0.0394	
Mars	5643-06-22 03:35 G	3782295.57	3782295.65	3782295.74	0.1879	0.1330	
Mars	5644-07-16 09:21 G	3782685.74	3782685.89	3782686.03	0.1669	0.0776	
Mars	5645-05-27 18:28 G	3783001.21	3783001.27	3783001.33	0.1853	0.1586	
Venus	5647-04-27 16:48 G	3783701.13	3783701.20	3783701.27	0.3682	0.2725	
Jupiter	5647-08-29 16:19 G	3783825.01	3783825.18	3783825.36	0.0487	0.0078	
Earth	5649-12-22 04:19 G	3784670.57	3784670.68	3784670.79	0.2676	0.0509	
Moon	5649-12-22 05:02 G	3784670.60	3784670.71	3784670.82	0.2674	0.0468	*
Saturn	5650-06-11 23:16 G	3784842.37	3784842.47	3784842.57	0.0278	0.0197	
Saturn	5650-09-08 12:00 G	3784930.87	3784931.00	3784931.14	0.0279	0.0084	
Saturn	5650-12-06 00:43 G	3785019.39	3785019.53	3785019.67	0.0279	0.0031	
Saturn	5651-03-04 13:11 G	3785107.94	3785108.05	3785108.17	0.0280	0.0142	
Saturn	5651-06-01 01:40 G	3785196.51	3785196.57	3785196.63	0.0281	0.0252	
Jupiter	5653-05-04 16:04 G	3785900.09	3785900.17	3785900.26	0.0541	0.0418	
Jupiter	5653-08-02 02:52 G	3785989.50	3785989.62	3785989.74	0.0541	0.0237	
Mars	5653-12-06 10:48 G	3786115.78	3786115.95	3786116.11	0.1664	0.0055	
Mars	5654-10-18 02:52 G	3786431.52	3786431.62	3786431.73	0.1860	0.0905	
Jupiter	5659-06-17 15:21 G	3788134.97	3788135.14	3788135.31	0.0486	0.0089	

Moon 5659-06-19 23:31 G 3788137.33 3788137.48 3788137.63 0.2662 0.0713

Earth 5659-06-20 00:28 G 3788137.37 3788137.52 3788137.67 0.2656 0.0525 *

Neptune 5660-10-20 17:16 G 3788626.19 3788626.22 3788626.25 0.0089 0.0087

Neptune 5661-01-16 18:43 G 3788714.22 3788714.28 3788714.35 0.0089 0.0079

Neptune 5661-04-14 20:09 G 3788802.27 3788802.34 3788802.44 0.0089 0.0073

Neptune 5661-07-11 22:04 G 3788890.33 3788890.42 3788890.52 0.0089 0.0065

Neptune 5661-10-07 23:31 G 3788978.39 3788978.48 3788978.60 0.0089 0.0058

Neptune 5662-01-04 01:26 G 3789066.44 3789066.56 3789066.68 0.0089 0.0050

Neptune 5662-04-02 02:52 G 3789154.51 3789154.62 3789154.75 0.0089 0.0043

Neptune 5662-06-29 04:48 G 3789242.57 3789242.70 3789242.83 0.0089 0.0035

Neptune 5662-09-25 06:14 G 3789330.63 3789330.76 3789330.90 0.0089 0.0028

Neptune 5662-12-22 07:55 G 3789418.69 3789418.83 3789418.97 0.0089 0.0020

Earth 5662-12-24 22:19 G 3789421.33 3789421.43 3789421.54 0.2678 0.0929

Moon 5662-12-24 22:48 G 3789421.35 3789421.45 3789421.56 0.2673 0.1040 *

Neptune 5663-03-20 09:35 G 3789506.76 3789506.90 3789507.04 0.0089 0.0013

Mars 5663-04-28 12:14 G 3789545.87 3789546.01 3789546.15 0.1658 0.0813

Neptune 5663-06-16 11:02 G 3789594.83 3789594.96 3789595.11 0.0089 0.0006

Neptune 5663-09-12 12:43 G 3789682.89 3789683.03 3789683.17 0.0089 0.0002

Neptune 5663-12-09 14:24 G 3789770.96 3789771.10 3789771.24 0.0089 0.0009

Neptune 5664-03-06 15:50 G 3789859.03 3789859.16 3789859.30 0.0089 0.0017

Mars 5664-03-09 11:31 G 3789861.86 3789861.98 3789862.10 0.1866 0.0211

Neptune 5664-06-02 17:31 G 3789947.10 3789947.23 3789947.37 0.0089 0.0024

Saturn 5664-07-03 21:35 G 3789978.28 3789978.40 3789978.53 0.0281 0.0187

Neptune 5664-08-29 18:57 G 3790035.17 3790035.29 3790035.43 0.0089 0.0031

Saturn 5664-09-30 16:48 G 3790067.03 3790067.20 3790067.37 0.0281 0.0049

Neptune 5664-11-25 20:24 G 3790123.24 3790123.35 3790123.49 0.0089 0.0039

Saturn 5664-12-28 12:14 G 3790155.85 3790156.01 3790156.17 0.0280 0.0092

Neptune 5665-02-21 22:04 G 3790211.31 3790211.42 3790211.55 0.0089 0.0045

Saturn 5665-03-27 07:40 G 3790244.74 3790244.82 3790244.93 0.0279 0.0235

Neptune 5665-05-20 23:31 G 3790299.38 3790299.48 3790299.60 0.0089 0.0053

Jupiter 5665-05-21 06:28 G 3790299.64 3790299.77 3790299.90 0.0541 0.0085

Neptune 5665-08-17 01:11 G 3790387.45 3790387.55 3790387.66 0.0089 0.0060

Neptune 5665-11-13 02:52 G 3790475.53 3790475.62 3790475.71 0.0089 0.0067

Neptune 5666-02-09 04:19 G 3790563.61 3790563.68 3790563.76 0.0089 0.0074

Neptune 5666-05-08 05:45 G 3790651.69 3790651.74 3790651.80 0.0089 0.0081

Neptune 5666-08-04 07:26 G 3790739.79 3790739.81 3790739.83 0.0089 0.0088

Jupiter 5671-04-05 14:52 G 3792444.98 3792445.12 3792445.27 0.0486 0.0243

Pluto 5671-06-14 04:33 G 3792514.64 3792514.69 3792514.74 0.0071 0.0065

Jupiter 5671-07-04 15:07 G 3792535.03 3792535.13 3792535.24 0.0487 0.0389

Pluto 5671-09-10 05:02 G 3792602.64 3792602.71 3792602.81 0.0071 0.0057

Pluto 5671-12-07 06:00 G 3792690.66 3792690.75 3792690.86 0.0071 0.0048

Pluto 5672-03-04 06:43 G 3792778.68 3792778.78 3792778.91 0.0071 0.0039

Pluto 5672-05-31 07:40 G 3792866.70 3792866.82 3792866.95 0.0071 0.0030

Earth 5672-06-22 06:00 G 3792888.66 3792888.75 3792888.83 0.2654 0.2201

Moon 5672-06-22 06:00 G 3792888.68 3792888.75 3792888.82 0.2660 0.2304 *

Pluto 5672-08-27 08:38 G 3792954.73 3792954.86 3792954.99 0.0072 0.0021

Mars 5672-09-17 14:24 G 3792976.05 3792976.10 3792976.15 0.1653 0.1566

Pluto 5672-11-23 09:21 G 3793042.76 3793042.89 3793043.03 0.0072 0.0012

Pluto 5673-02-19 10:19 G 3793130.79 3793130.93 3793131.07 0.0072 0.0003

Uranus 5673-03-10 15:21 G 3793150.09 3793150.14 3793150.22 0.0144 0.0134

Pluto 5673-05-18 11:02 G 3793218.83 3793218.96 3793219.10 0.0072 0.0007

Uranus 5673-06-06 22:48 G 3793238.34 3793238.45 3793238.58 0.0144 0.0106

Mars 5673-07-30 19:40 G 3793292.21 3793292.32 3793292.43 0.1873 0.0517

Pluto 5673-08-14 11:45 G 3793306.86 3793306.99 3793307.14 0.0072 0.0017

Uranus 5673-09-03 06:28 G 3793326.62 3793326.77 3793326.93 0.0144 0.0078

Pluto 5673-11-10 12:43 G 3793394.90 3793395.03 3793395.16 0.0072 0.0025

Uranus 5673-11-30 13:55 G 3793414.91 3793415.08 3793415.26 0.0144 0.0049

Pluto 5674-02-06 13:40 G 3793482.95 3793483.07 3793483.19 0.0072 0.0035

Uranus 5674-02-26 21:35 G 3793503.22 3793503.40 3793503.58 0.0144 0.0021

Pluto 5674-05-05 14:24 G 3793571.00 3793571.10 3793571.22 0.0072 0.0044

Uranus 5674-05-26 05:16 G 3793591.53 3793591.72 3793591.90 0.0143 0.0008

Pluto 5674-08-01 15:21 G 3793659.05 3793659.14 3793659.24 0.0073 0.0054

Uranus 5674-08-22 12:43 G 3793679.86 3793680.03 3793680.22 0.0143 0.0037

Pluto 5674-10-28 16:04 G 3793747.12 3793747.17 3793747.25 0.0073 0.0064

Uranus 5674-11-18 20:38 G 3793768.19 3793768.36 3793768.52 0.0143 0.0066

Uranus 5675-02-15 04:19 G 3793856.54 3793856.68 3793856.82 0.0143 0.0095

Uranus 5675-05-14 11:45 G 3793944.91 3793944.99 3793945.09 0.0143 0.0124

Moon 5675-12-27 16:19 G 3794172.12 3794172.18 3794172.23 0.2673 0.2251

Earth 5675-12-27 16:19 G 3794172.13 3794172.18 3794172.24 0.2680 0.2330 *

Venus 5676-03-20 01:11 G 3794255.52 3794255.55 3794255.58 0.3679 0.3512

Jupiter 5677-03-09 09:35 G 3794609.77 3794609.90 3794610.04 0.0541 0.0075

Saturn 5679-10-30 00:28 G 3795574.45 3795574.52 3795574.59 0.0278 0.0235

Saturn 5680-01-26 13:26 G 3795662.93 3795663.06 3795663.18 0.0279 0.0122

Saturn 5680-04-24 02:09 G 3795751.45 3795751.59 3795751.73 0.0279 0.0009

Saturn 5680-07-21 14:38 G 3795839.98 3795840.11 3795840.24 0.0280 0.0104

Saturn 5680-10-18 03:07 G 3795928.54 3795928.63 3795928.72 0.0281 0.0215

Venus 5681-10-03 18:43 G 3796279.19 3796279.28 3796279.37 0.3679 0.2114

Earth 5682-12-20 15:07 G 3796722.04 3796722.13 3796722.22 0.2675 0.1639

Moon 5682-12-20 15:50 G 3796722.07 3796722.16 3796722.25 0.2678 0.1582 *

Mars 5682-12-21 03:35 G 3796722.57 3796722.65 3796722.74 0.1880 0.1262

Jupiter 5683-01-22 14:38 G 3796755.02 3796755.11 3796755.21 0.0486 0.0396

Venus 5683-04-18 19:40 G 3796841.20 3796841.32 3796841.44 0.3691 0.1763

Jupiter 5683-04-22 14:24 G 3796844.95 3796845.10 3796845.26 0.0487 0.0229

Mars 5684-01-15 10:04 G 3797112.78 3797112.92 3797113.06 0.1669 0.0874

Mars 5684-11-25 18:14 G 3797428.21 3797428.26 3797428.31 0.1853 0.1644

Venus 5687-04-19 12:00 G 3798302.89 3798303.00 3798303.10 0.3680 0.0761

Venus 5688-11-01 22:33 G 3798865.31 3798865.44 3798865.58 0.3690 0.0930

Jupiter 5688-12-26 12:28 G 3798919.90 3798920.02 3798920.14 0.0541 0.0239

Jupiter 5689-03-25 22:48 G 3799009.36 3799009.45 3799009.54 0.0540 0.0405

Earth 5692-06-17 01:40 G 3800188.57 3800188.57 3800188.57 0.2658 0.2655

Venus	5692-11-02 05:02 G	3800326.60	3800326.71	3800326.82	0.3681	0.0582	
Mars	5693-06-06 11:16 G	3800542.81	3800542.97	3800543.13	0.1664	0.0060	
Saturn	5693-11-20 21:50 G	3800710.31	3800710.41	3800710.51	0.0281	0.0227	
Saturn	5694-02-17 16:48 G	3800799.04	3800799.20	3800799.36	0.0281	0.0089	
Mars	5694-04-18 03:07 G	3800858.53	3800858.63	3800858.73	0.1860	0.0978	
Saturn	5694-05-17 12:14 G	3800887.84	3800888.01	3800888.18	0.0280	0.0051	
Saturn	5694-08-14 07:40 G	3800976.70	3800976.82	3800976.95	0.0279	0.0194	
Jupiter	5695-02-08 14:09 G	3801154.92	3801155.09	3801155.26	0.0487	0.0075	
Earth	5695-12-23 09:21 G	3801472.77	3801472.89	3801473.00	0.2677	0.0221	
Moon	5695-12-23 10:04 G	3801472.80	3801472.92	3801473.03	0.2674	0.0110	*
Venus	5698-05-18 21:50 G	3802350.32	3802350.41	3802350.50	0.3681	0.1868	
Jupiter	5700-10-15 14:24 G	3803230.02	3803230.10	3803230.18	0.0541	0.0422	
Jupiter	5701-01-13 00:57 G	3803319.43	3803319.54	3803319.66	0.0541	0.0232	
Mars	5702-10-28 12:43 G	3803972.89	3803973.03	3803973.18	0.1658	0.0729	
Mars	5703-09-09 11:31 G	3804288.87	3804288.98	3804289.10	0.1866	0.0282	
Venus	5703-12-03 14:38 G	3804374.05	3804374.11	3804374.16	0.3682	0.3124	
Moon	5705-06-21 06:00 G	3804939.60	3804939.75	3804939.90	0.2661	0.0091	
Earth	5705-06-21 06:43 G	3804939.63	3804939.78	3804939.94	0.2656	0.0084	*
Jupiter	5706-11-28 13:40 G	3805464.90	3805465.07	3805465.24	0.0487	0.0083	
Earth	5708-12-26 03:21 G	3806223.54	3806223.64	3806223.74	0.2678	0.1221	
Moon	5708-12-26 03:35 G	3806223.55	3806223.65	3806223.75	0.2672	0.1198	*
Saturn	5709-03-19 03:50 G	3806306.61	3806306.66	3806306.72	0.0278	0.0255	
Saturn	5709-06-15 17:02 G	3806395.09	3806395.21	3806395.33	0.0279	0.0140	
Saturn	5709-09-12 05:45 G	3806483.60	3806483.74	3806483.88	0.0279	0.0027	
Saturn	5709-12-09 18:28 G	3806572.14	3806572.27	3806572.40	0.0280	0.0086	
Saturn	5710-03-08 06:43 G	3806660.69	3806660.78	3806660.89	0.0280	0.0198	
Mars	5712-03-19 14:52 G	3807403.05	3807403.12	3807403.19	0.1653	0.1481	
Jupiter	5712-11-01 04:04 G	3807629.54	3807629.67	3807629.80	0.0541	0.0070	
Mars	5713-01-29 19:40 G	3807719.21	3807719.32	3807719.44	0.1873	0.0445	
Uranus	5716-06-12 14:38 G	3808949.05	3808949.11	3808949.18	0.0134	0.0118	

Uranus 5716-09-08 17:45 G 3809037.16 3809037.24 3809037.34 0.0134 0.0101

Uranus 5716-12-05 21:21 G 3809125.28 3809125.39 3809125.50 0.0135 0.0082

Uranus 5717-03-04 00:43 G 3809213.41 3809213.53 3809213.65 0.0135 0.0065

Uranus 5717-05-31 03:50 G 3809301.54 3809301.66 3809301.80 0.0135 0.0048

Uranus 5717-08-27 07:26 G 3809389.67 3809389.81 3809389.94 0.0135 0.0030

Uranus 5717-11-23 10:33 G 3809477.81 3809477.94 3809478.08 0.0135 0.0013

Uranus 5718-02-19 13:55 G 3809565.95 3809566.08 3809566.22 0.0135 0.0005

Uranus 5718-05-18 17:02 G 3809654.08 3809654.21 3809654.35 0.0135 0.0023

Uranus 5718-08-14 20:24 G 3809742.22 3809742.35 3809742.48 0.0135 0.0040

Jupiter 5718-09-16 12:43 G 3809774.88 3809775.03 3809775.18 0.0486 0.0246

Uranus 5718-11-10 23:45 G 3809830.37 3809830.49 3809830.61 0.0135 0.0057

Jupiter 5718-12-15 12:57 G 3809864.94 3809865.04 3809865.15 0.0487 0.0385

Uranus 5719-02-07 02:52 G 3809918.51 3809918.62 3809918.74 0.0135 0.0075

Uranus 5719-05-06 06:14 G 3810006.66 3810006.76 3810006.86 0.0135 0.0092

Uranus 5719-08-02 09:21 G 3810094.81 3810094.89 3810094.97 0.0135 0.0109

Uranus 5719-10-29 12:14 G 3810182.98 3810183.01 3810183.07 0.0136 0.0127

Moon 5721-12-28 21:07 G 3810974.36 3810974.38 3810974.39 0.2673 0.2639

Earth 5721-12-28 21:21 G 3810974.37 3810974.39 3810974.40 0.2680 0.2624 *

Mars 5722-06-22 03:50 G 3811149.57 3811149.66 3811149.75 0.1879 0.1185

Saturn 5723-04-10 23:16 G 3811442.40 3811442.47 3811442.54 0.0281 0.0254

Saturn 5723-07-08 18:14 G 3811531.11 3811531.26 3811531.41 0.0281 0.0117

Mars 5723-07-17 10:48 G 3811539.82 3811539.95 3811540.08 0.1669 0.0970

Saturn 5723-10-05 13:26 G 3811619.89 3811620.06 3811620.23 0.0280 0.0022

Saturn 5724-01-02 08:52 G 3811708.74 3811708.87 3811709.02 0.0280 0.0163

Mars 5724-05-27 18:28 G 3811855.23 3811855.27 3811855.31 0.1853 0.1718

Jupiter 5724-08-20 07:26 G 3811939.68 3811939.81 3811939.94 0.0541 0.0086

Earth 5728-12-21 20:09 G 3813524.24 3813524.34 3813524.43 0.2675 0.1341

Moon 5728-12-21 20:52 G 3813524.27 3813524.37 3813524.46 0.2676 0.1238 *

Jupiter 5730-07-05 12:28 G 3814084.93 3814085.02 3814085.12 0.0486 0.0398

Jupiter 5730-10-03 12:14 G 3814174.86 3814175.01 3814175.17 0.0487 0.0225

Venus	5732-10-25 23:16 G	3814928.41	3814928.47	3814928.53	0.3679	0.3058
Mars	5732-12-06 12:00 G	3814969.84	3814970.00	3814970.16	0.1664	0.0154
Mars	5733-10-18 03:07 G	3815285.53	3815285.63	3815285.72	0.1859	0.1042
Venus	5734-05-10 17:45 G	3815490.20	3815490.24	3815490.28	0.3691	0.3519
Jupiter	5736-06-08 10:33 G	3816249.82	3816249.94	3816250.06	0.0541	0.0245
Jupiter	5736-09-05 20:52 G	3816339.29	3816339.37	3816339.46	0.0541	0.0402
Venus	5738-05-11 16:33 G	3816952.10	3816952.19	3816952.29	0.3679	0.1674
Moon	5738-06-19 06:43 G	3816990.71	3816990.78	3816990.84	0.2661	0.2372
Earth	5738-06-19 07:55 G	3816990.74	3816990.83	3816990.92	0.2657	0.2142 *
Saturn	5738-11-02 18:14 G	3817127.16	3817127.26	3817127.37	0.0278	0.0178
Saturn	5739-01-30 07:11 G	3817215.66	3817215.80	3817215.94	0.0279	0.0064
Saturn	5739-04-28 19:55 G	3817304.19	3817304.33	3817304.47	0.0280	0.0049
Saturn	5739-07-26 08:24 G	3817392.74	3817392.85	3817392.96	0.0280	0.0160
Saturn	5739-10-22 20:38 G	3817481.33	3817481.36	3817481.40	0.0281	0.0271
Venus	5739-11-24 20:09 G	3817514.20	3817514.34	3817514.47	0.3690	0.0956
Earth	5741-12-24 14:09 G	3818274.98	3818275.09	3818275.20	0.2677	0.0102
Moon	5741-12-24 14:52 G	3818275.01	3818275.12	3818275.23	0.2674	0.0158 *
Mars	5742-04-28 13:26 G	3818399.91	3818400.06	3818400.21	0.1658	0.0636
Jupiter	5742-07-22 11:31 G	3818484.81	3818484.98	3818485.16	0.0487	0.0067
Mars	5743-03-10 11:31 G	3818715.87	3818715.98	3818716.10	0.1866	0.0348
Neptune	5743-04-09 09:50 G	3818745.87	3818745.91	3818745.95	0.0088	0.0085
Neptune	5743-07-06 12:14 G	3818833.94	3818834.01	3818834.11	0.0088	0.0077
Neptune	5743-10-02 15:21 G	3818922.03	3818922.14	3818922.25	0.0088	0.0068
Venus	5743-11-25 09:50 G	3818975.80	3818975.91	3818976.02	0.3680	0.0324
Neptune	5743-12-29 18:00 G	3819010.13	3819010.25	3819010.39	0.0088	0.0060
Neptune	5744-03-26 20:52 G	3819098.24	3819098.37	3819098.52	0.0088	0.0051
Neptune	5744-06-23 00:00 G	3819186.34	3819186.50	3819186.65	0.0088	0.0042
Neptune	5744-09-19 02:38 G	3819274.45	3819274.61	3819274.78	0.0088	0.0034
Neptune	5744-12-16 05:31 G	3819362.57	3819362.73	3819362.91	0.0088	0.0025
Neptune	5745-03-14 08:24 G	3819450.68	3819450.85	3819451.03	0.0088	0.0016

Venus 5745-06-09 23:16 G 3819538.35 3819538.47 3819538.59 0.3690 0.1791

Neptune 5745-06-10 11:31 G 3819538.80 3819538.98 3819539.16 0.0088 0.0007

Neptune 5745-09-06 14:24 G 3819626.92 3819627.10 3819627.28 0.0088 0.0002

Neptune 5745-12-03 17:02 G 3819715.04 3819715.21 3819715.40 0.0088 0.0011

Neptune 5746-03-01 20:09 G 3819803.16 3819803.34 3819803.52 0.0088 0.0019

Neptune 5746-05-28 23:02 G 3819891.29 3819891.46 3819891.63 0.0088 0.0028

Neptune 5746-08-25 01:55 G 3819979.42 3819979.58 3819979.75 0.0088 0.0037

Neptune 5746-11-21 04:48 G 3820067.56 3820067.70 3820067.86 0.0088 0.0046

Neptune 5747-02-17 07:55 G 3820155.69 3820155.83 3820155.97 0.0088 0.0055

Neptune 5747-05-16 10:48 G 3820243.83 3820243.95 3820244.08 0.0088 0.0064

Neptune 5747-08-12 13:40 G 3820331.98 3820332.07 3820332.18 0.0088 0.0073

Neptune 5747-11-08 16:48 G 3820420.15 3820420.20 3820420.27 0.0088 0.0082

Jupiter 5748-03-27 13:11 G 3820559.97 3820560.05 3820560.14 0.0541 0.0412

Jupiter 5748-06-25 00:00 G 3820649.39 3820649.50 3820649.62 0.0541 0.0242

Venus 5749-06-10 02:52 G 3820999.51 3820999.62 3820999.72 0.3681 0.0999

Moon 5751-06-22 12:28 G 3821741.87 3821742.02 3821742.17 0.2661 0.0431

Earth 5751-06-22 13:11 G 3821741.90 3821742.05 3821742.20 0.2656 0.0533 *

Mars 5751-09-18 15:21 G 3821830.06 3821830.14 3821830.22 0.1653 0.1401

Mars 5752-07-30 19:55 G 3822146.21 3822146.33 3822146.44 0.1873 0.0369

Saturn 5752-11-24 18:14 G 3822263.12 3822263.26 3822263.40 0.0281 0.0158

Saturn 5753-02-21 13:11 G 3822351.88 3822352.05 3822352.23 0.0280 0.0021

Saturn 5753-05-21 08:38 G 3822440.71 3822440.86 3822441.02 0.0280 0.0122

Saturn 5753-08-18 04:33 G 3822529.64 3822529.69 3822529.75 0.0279 0.0263

Jupiter 5754-05-10 11:31 G 3822794.81 3822794.98 3822795.15 0.0487 0.0087

Venus 5754-12-24 19:40 G 3823023.24 3823023.32 3823023.40 0.3682 0.2274

Earth 5754-12-27 08:09 G 3823025.75 3823025.84 3823025.93 0.2678 0.1517

Moon 5754-12-27 08:24 G 3823025.76 3823025.85 3823025.93 0.2672 0.1590 *

Pluto 5757-02-04 21:35 G 3823796.35 3823796.40 3823796.49 0.0073 0.0068

Uranus 5757-03-31 22:48 G 3823851.38 3823851.45 3823851.54 0.0144 0.0127

Pluto 5757-05-03 23:45 G 3823884.39 3823884.49 3823884.63 0.0072 0.0055

Uranus 5757-06-28 06:14 G 3823939.64 3823939.76 3823939.90 0.0144 0.0099

Pluto 5757-07-31 02:09 G 3823972.44 3823972.59 3823972.74 0.0072 0.0042

Uranus 5757-09-24 13:40 G 3824027.92 3824028.07 3824028.24 0.0144 0.0071

Pluto 5757-10-27 04:04 G 3824060.51 3824060.67 3824060.84 0.0072 0.0029

Uranus 5757-12-21 21:21 G 3824116.22 3824116.39 3824116.57 0.0144 0.0042

Pluto 5758-01-23 06:00 G 3824148.58 3824148.75 3824148.94 0.0072 0.0017

Uranus 5758-03-20 05:02 G 3824204.52 3824204.71 3824204.89 0.0144 0.0013

Pluto 5758-04-21 08:09 G 3824236.66 3824236.84 3824237.03 0.0072 0.0005

Uranus 5758-06-16 12:28 G 3824292.84 3824293.02 3824293.21 0.0143 0.0016

Pluto 5758-07-18 10:04 G 3824324.74 3824324.92 3824325.11 0.0072 0.0008

Uranus 5758-09-12 20:09 G 3824381.17 3824381.34 3824381.52 0.0143 0.0044

Pluto 5758-10-14 12:00 G 3824412.83 3824413.00 3824413.18 0.0072 0.0020

Uranus 5758-12-10 03:35 G 3824469.50 3824469.65 3824469.82 0.0143 0.0074

Pluto 5759-01-10 13:55 G 3824500.93 3824501.08 3824501.25 0.0072 0.0032

Uranus 5759-03-08 11:16 G 3824557.85 3824557.97 3824558.11 0.0143 0.0102

Pluto 5759-04-08 15:50 G 3824589.03 3824589.16 3824589.32 0.0071 0.0044

Uranus 5759-06-04 18:57 G 3824646.23 3824646.29 3824646.38 0.0143 0.0131

Pluto 5759-07-05 17:31 G 3824677.14 3824677.23 3824677.37 0.0071 0.0056

Pluto 5759-10-01 19:26 G 3824765.27 3824765.31 3824765.39 0.0071 0.0067

Jupiter 5760-04-13 02:09 G 3824959.46 3824959.59 3824959.73 0.0541 0.0068

Venus 5760-07-09 12:28 G 3825046.99 3825047.02 3825047.04 0.3682 0.3522

Earth 5761-12-20 06:43 G 3825575.74 3825575.78 3825575.82 0.2674 0.2485

Moon 5761-12-20 07:11 G 3825575.76 3825575.80 3825575.84 0.2679 0.2470 *

Mars 5761-12-21 03:50 G 3825576.57 3825576.66 3825576.75 0.1879 0.1116

Mars 5763-01-15 11:16 G 3825966.84 3825966.97 3825967.09 0.1670 0.1055

Mars 5763-11-26 18:28 G 3826282.24 3826282.27 3826282.30 0.1852 0.1787

Jupiter 5766-02-26 11:02 G 3827104.81 3827104.96 3827105.11 0.0487 0.0241

Jupiter 5766-05-27 11:16 G 3827194.87 3827194.97 3827195.08 0.0487 0.0391

Saturn 5768-03-21 21:35 G 3827859.31 3827859.40 3827859.51 0.0279 0.0198

Saturn 5768-06-18 10:33 G 3827947.81 3827947.94 3827948.08 0.0279 0.0084

Saturn	5768-09-14 23:31	G	3828036.34	3828036.48	3828036.62	0.0280	0.0030
Saturn	5768-12-12 12:00	G	3828124.88	3828125.00	3828125.12	0.0280	0.0141
Saturn	5769-03-11 00:14	G	3828213.46	3828213.51	3828213.58	0.0281	0.0252
Mars	5771-05-13 11:45	G	3829006.98	3829006.99	3829006.99	0.1885	0.1876
Jupiter	5772-01-31 05:02	G	3829269.58	3829269.71	3829269.85	0.0541	0.0101
Jupiter	5772-04-29 15:07	G	3829359.13	3829359.13	3829359.14	0.0540	0.0539
Mars	5772-06-06 12:43	G	3829396.87	3829397.03	3829397.19	0.1664	0.0250
Mars	5773-04-18 03:07	G	3829712.54	3829712.63	3829712.72	0.1859	0.1113
Earth	5774-12-23 00:57	G	3830326.44	3830326.54	3830326.64	0.2675	0.1036
Moon	5774-12-23 01:40	G	3830326.47	3830326.57	3830326.68	0.2675	0.0912 *
Jupiter	5777-12-15 10:19	G	3831414.83	3831414.93	3831415.02	0.0486	0.0401
Jupiter	5778-03-15 09:50	G	3831504.76	3831504.91	3831505.07	0.0487	0.0221
Mars	5781-10-27 14:09	G	3832826.93	3832827.09	3832827.24	0.1658	0.0549
Saturn	5782-04-13 20:09	G	3832995.22	3832995.34	3832995.47	0.0281	0.0182
Saturn	5782-07-11 15:21	G	3833083.97	3833084.14	3833084.31	0.0281	0.0044
Mars	5782-09-08 11:31	G	3833142.87	3833142.98	3833143.10	0.1866	0.0422
Saturn	5782-10-08 10:33	G	3833172.78	3833172.94	3833173.11	0.0280	0.0096
Saturn	5783-01-05 06:14	G	3833261.68	3833261.76	3833261.85	0.0279	0.0238
Jupiter	5783-11-19 08:24	G	3833579.73	3833579.85	3833579.96	0.0542	0.0259
Jupiter	5784-02-16 18:43	G	3833669.19	3833669.28	3833669.37	0.0541	0.0389
Moon	5784-06-19 12:57	G	3833792.93	3833793.04	3833793.16	0.2661	0.1709
Earth	5784-06-19 14:24	G	3833792.98	3833793.10	3833793.22	0.2657	0.1613 *
Earth	5787-12-25 18:57	G	3835077.18	3835077.29	3835077.40	0.2677	0.0400
Moon	5787-12-25 19:40	G	3835077.21	3835077.32	3835077.43	0.2673	0.0515 *
Venus	5789-06-01 21:21	G	3835601.31	3835601.39	3835601.46	0.3679	0.2611
Jupiter	5790-01-01 09:21	G	3835814.72	3835814.89	3835815.06	0.0486	0.0063
Venus	5790-12-15 18:00	G	3836163.16	3836163.25	3836163.34	0.3691	0.2739
Mars	5791-03-19 16:04	G	3836257.07	3836257.17	3836257.27	0.1653	0.1308
Mars	5792-01-29 19:55	G	3836573.21	3836573.33	3836573.44	0.1873	0.0309
Venus	5794-12-16 14:38	G	3837625.00	3837625.11	3837625.21	0.3680	0.1242

Jupiter 5795-09-07 11:31 G 3837889.89 3837889.98 3837890.06 0.0541 0.0419

Jupiter 5795-12-05 22:19 G 3837979.31 3837979.43 3837979.55 0.0541 0.0237

Venus 5796-06-30 20:38 G 3838187.22 3838187.36 3838187.50 0.3690 0.0131

Moon 5797-06-22 19:11 G 3838544.16 3838544.30 3838544.44 0.2662 0.1008

Earth 5797-06-22 19:40 G 3838544.18 3838544.32 3838544.46 0.2655 0.1068 *

Saturn 5797-08-08 23:02 G 3838591.39 3838591.46 3838591.54 0.0278 0.0234

Saturn 5797-11-05 12:00 G 3838679.88 3838680.00 3838680.13 0.0279 0.0121

Saturn 5798-02-02 00:57 G 3838768.40 3838768.54 3838768.68 0.0279 0.0008

Saturn 5798-05-01 13:26 G 3838856.93 3838857.06 3838857.19 0.0280 0.0105

Saturn 5798-07-29 01:55 G 3838945.50 3838945.58 3838945.67 0.0281 0.0216

Uranus 5800-04-06 18:00 G 3839562.24 3839562.25 3839562.28 0.0134 0.0132

Venus 5800-07-02 07:40 G 3839648.71 3839648.82 3839648.93 0.3681 0.0110

Uranus 5800-07-03 21:21 G 3839650.33 3839650.39 3839650.47 0.0134 0.0115

Uranus 5800-09-30 00:57 G 3839738.45 3839738.54 3839738.64 0.0134 0.0097

Uranus 5800-12-27 04:04 G 3839826.57 3839826.67 3839826.79 0.0134 0.0080

Earth 5800-12-28 12:57 G 3839827.96 3839828.04 3839828.12 0.2679 0.1816

Moon 5800-12-28 13:11 G 3839827.97 3839828.05 3839828.13 0.2671 0.1772 *

Uranus 5801-03-25 07:40 G 3839914.70 3839914.82 3839914.94 0.0135 0.0062

Uranus 5801-06-21 11:02 G 3840002.83 3840002.96 3840003.09 0.0135 0.0044

Mars 5801-06-22 03:50 G 3840003.57 3840003.66 3840003.76 0.1879 0.1043

Uranus 5801-09-17 14:09 G 3840090.96 3840091.09 3840091.23 0.0135 0.0027

Jupiter 5801-10-21 08:52 G 3840124.70 3840124.87 3840125.04 0.0487 0.0094

Uranus 5801-12-14 17:31 G 3840179.10 3840179.23 3840179.37 0.0135 0.0010

Venus 5802-01-16 00:00 G 3840211.40 3840211.50 3840211.60 0.3689 0.2659

Uranus 5802-03-12 20:52 G 3840267.23 3840267.37 3840267.51 0.0135 0.0008

Uranus 5802-06-09 00:14 G 3840355.37 3840355.51 3840355.64 0.0135 0.0026

Mars 5802-07-17 12:00 G 3840393.89 3840394.00 3840394.12 0.1670 0.1159

Uranus 5802-09-05 03:21 G 3840443.51 3840443.64 3840443.77 0.0135 0.0043

Uranus 5802-12-02 06:43 G 3840531.66 3840531.78 3840531.90 0.0135 0.0060

Uranus 5803-02-28 09:50 G 3840619.80 3840619.91 3840620.02 0.0135 0.0078

Uranus 5803-05-27 12:57 G 3840707.95 3840708.04 3840708.14 0.0135 0.0095

Mars 5803-05-28 18:28 G 3840709.27 3840709.27 3840709.27 0.1852 0.1850

Uranus 5803-08-23 16:04 G 3840796.11 3840796.17 3840796.25 0.0135 0.0113

Uranus 5803-11-19 19:11 G 3840884.28 3840884.30 3840884.35 0.0135 0.0130

Venus 5806-01-16 00:43 G 3841672.43 3841672.53 3841672.63 0.3681 0.1413

Jupiter 5807-09-25 01:11 G 3842289.42 3842289.55 3842289.68 0.0541 0.0076

Earth 5807-12-22 11:31 G 3842377.92 3842377.98 3842378.05 0.2674 0.2186

Moon 5807-12-22 12:14 G 3842377.94 3842378.01 3842378.08 0.2678 0.2066 *

Mars 5810-11-12 11:45 G 3843433.96 3843433.99 3843434.02 0.1885 0.1803

Venus 5811-08-01 17:31 G 3843696.16 3843696.23 3843696.30 0.3682 0.2678

Saturn 5811-09-01 19:40 G 3843727.23 3843727.32 3843727.42 0.0281 0.0226

Saturn 5811-11-29 14:38 G 3843815.95 3843816.11 3843816.28 0.0281 0.0088

Mars 5811-12-07 12:57 G 3843823.88 3843824.04 3843824.20 0.1664 0.0331

Saturn 5812-02-26 10:04 G 3843904.75 3843904.92 3843905.09 0.0280 0.0052

Saturn 5812-05-25 05:31 G 3843993.61 3843993.73 3843993.86 0.0279 0.0193

Mars 5812-10-18 03:07 G 3844139.54 3844139.63 3844139.72 0.1859 0.1184

Jupiter 5813-08-09 08:38 G 3844434.72 3844434.86 3844435.01 0.0487 0.0245

Jupiter 5813-11-07 08:52 G 3844524.77 3844524.87 3844524.98 0.0487 0.0387

Jupiter 5819-07-14 03:21 G 3846599.51 3846599.64 3846599.77 0.0541 0.0103

Jupiter 5819-10-11 13:26 G 3846689.05 3846689.06 3846689.07 0.0540 0.0536

Earth 5820-12-24 05:45 G 3847128.63 3847128.74 3847128.85 0.2675 0.0736

Moon 5820-12-24 06:28 G 3847128.67 3847128.77 3847128.88 0.2676 0.0658 *

Mars 5821-04-28 14:38 G 3847253.96 3847254.11 3847254.27 0.1659 0.0460

Mars 5822-03-10 11:45 G 3847569.88 3847569.99 3847570.10 0.1866 0.0492

Jupiter 5825-05-28 08:38 G 3848744.76 3848744.86 3848744.95 0.0487 0.0398

Neptune 5825-07-19 16:48 G 3848797.16 3848797.20 3848797.25 0.0089 0.0084

Jupiter 5825-08-26 08:09 G 3848834.69 3848834.84 3848835.00 0.0487 0.0226

Neptune 5825-10-15 18:14 G 3848885.20 3848885.26 3848885.34 0.0089 0.0077

Neptune 5826-01-11 20:09 G 3848973.25 3848973.34 3848973.43 0.0089 0.0069

Neptune 5826-04-09 21:35 G 3849061.31 3849061.40 3849061.51 0.0089 0.0062

Neptune 5826-07-06 23:16 G 3849149.37 3849149.47 3849149.59 0.0089 0.0054

Neptune 5826-10-03 00:57 G 3849237.43 3849237.54 3849237.67 0.0089 0.0047

Saturn 5826-12-28 02:24 G 3849323.55 3849323.60 3849323.66 0.0278 0.0255

Neptune 5826-12-30 02:38 G 3849325.49 3849325.61 3849325.74 0.0089 0.0039

Saturn 5827-03-26 15:21 G 3849412.02 3849412.14 3849412.27 0.0279 0.0141

Neptune 5827-03-28 04:19 G 3849413.55 3849413.68 3849413.81 0.0089 0.0032

Saturn 5827-06-23 04:19 G 3849500.54 3849500.68 3849500.82 0.0280 0.0028

Neptune 5827-06-24 06:00 G 3849501.61 3849501.75 3849501.89 0.0089 0.0024

Saturn 5827-09-19 17:02 G 3849589.07 3849589.21 3849589.34 0.0280 0.0085

Neptune 5827-09-20 07:26 G 3849589.68 3849589.81 3849589.96 0.0089 0.0018

Saturn 5827-12-17 05:16 G 3849677.63 3849677.72 3849677.83 0.0281 0.0197

Neptune 5827-12-17 09:07 G 3849677.74 3849677.88 3849678.02 0.0089 0.0010 *

Neptune 5828-03-14 10:48 G 3849765.81 3849765.95 3849766.09 0.0089 0.0003

Neptune 5828-06-10 12:28 G 3849853.88 3849854.02 3849854.16 0.0089 0.0005

Neptune 5828-09-06 13:55 G 3849941.95 3849942.08 3849942.22 0.0089 0.0012

Neptune 5828-12-03 15:35 G 3850030.01 3850030.15 3850030.29 0.0089 0.0019

Neptune 5829-03-01 17:16 G 3850118.08 3850118.22 3850118.35 0.0089 0.0027

Neptune 5829-05-28 18:43 G 3850206.15 3850206.28 3850206.41 0.0089 0.0034

Neptune 5829-08-24 20:09 G 3850294.22 3850294.34 3850294.47 0.0089 0.0041

Neptune 5829-11-20 21:35 G 3850382.30 3850382.40 3850382.53 0.0089 0.0049

Neptune 5830-02-16 23:16 G 3850470.37 3850470.47 3850470.59 0.0089 0.0056

Neptune 5830-05-16 00:43 G 3850558.44 3850558.53 3850558.64 0.0089 0.0063

Moon 5830-06-21 19:26 G 3850595.19 3850595.31 3850595.45 0.2661 0.1328

Earth 5830-06-21 20:52 G 3850595.23 3850595.37 3850595.50 0.2657 0.1086 *

Neptune 5830-08-12 02:24 G 3850646.52 3850646.60 3850646.69 0.0089 0.0070

Mars 5830-09-18 16:48 G 3850684.09 3850684.20 3850684.31 0.1653 0.1219

Neptune 5830-11-08 04:04 G 3850734.60 3850734.67 3850734.74 0.0089 0.0077

Neptune 5831-02-04 05:31 G 3850822.69 3850822.73 3850822.78 0.0089 0.0084

Jupiter 5831-05-02 06:00 G 3850909.64 3850909.75 3850909.87 0.0541 0.0271

Jupiter 5831-07-30 16:33 G 3850999.10 3850999.19 3850999.28 0.0540 0.0377

Mars 5831-07-31 19:55 G 3851000.21 3851000.33 3851000.45 0.1873 0.0231

Earth 5833-12-27 00:00 G 3851879.39 3851879.50 3851879.60 0.2677 0.0704

Moon 5833-12-27 00:28 G 3851879.41 3851879.52 3851879.62 0.2672 0.0767 *

Jupiter 5837-06-14 06:57 G 3853144.62 3853144.79 3853144.96 0.0487 0.0059

Venus 5840-06-24 01:40 G 3854250.55 3854250.57 3854250.60 0.3679 0.3563

Mars 5840-12-21 04:04 G 3854430.57 3854430.67 3854430.77 0.1879 0.0973

Saturn 5841-01-18 22:04 G 3854459.35 3854459.42 3854459.50 0.0281 0.0248

Saturn 5841-04-17 17:02 G 3854548.05 3854548.21 3854548.36 0.0281 0.0111

Uranus 5841-04-22 06:00 G 3854552.67 3854552.75 3854552.86 0.0144 0.0120

Saturn 5841-07-15 12:14 G 3854636.84 3854637.01 3854637.18 0.0280 0.0028

Uranus 5841-07-19 13:40 G 3854640.93 3854641.07 3854641.21 0.0144 0.0092

Saturn 5841-10-12 07:40 G 3854725.69 3854725.82 3854725.96 0.0280 0.0169

Uranus 5841-10-15 21:07 G 3854729.22 3854729.38 3854729.55 0.0144 0.0064

Uranus 5842-01-12 04:33 G 3854817.52 3854817.69 3854817.88 0.0144 0.0036

Mars 5842-01-15 12:43 G 3854820.92 3854821.03 3854821.14 0.1670 0.1248

Uranus 5842-04-10 12:14 G 3854905.83 3854906.01 3854906.20 0.0144 0.0007

Uranus 5842-07-07 19:40 G 3854994.14 3854994.32 3854994.51 0.0143 0.0023

Uranus 5842-10-04 03:21 G 3855082.47 3855082.64 3855082.82 0.0143 0.0051

Uranus 5842-12-31 11:02 G 3855170.81 3855170.96 3855171.12 0.0143 0.0080

Jupiter 5843-02-18 09:07 G 3855219.80 3855219.88 3855219.96 0.0542 0.0433

Uranus 5843-03-29 18:57 G 3855259.17 3855259.29 3855259.41 0.0143 0.0109

Jupiter 5843-05-18 19:55 G 3855309.21 3855309.33 3855309.45 0.0541 0.0224

Earth 5843-06-25 02:09 G 3855346.46 3855346.59 3855346.71 0.2655 0.1614

Moon 5843-06-25 01:55 G 3855346.47 3855346.58 3855346.70 0.2662 0.1667 *

Uranus 5843-06-26 02:38 G 3855347.56 3855347.61 3855347.66 0.0143 0.0138

Venus 5846-01-07 19:11 G 3856274.21 3856274.30 3856274.39 0.3679 0.2159

Moon 5846-12-29 18:00 G 3856630.18 3856630.25 3856630.31 0.2672 0.2144

Earth 5846-12-29 18:00 G 3856630.18 3856630.25 3856630.31 0.2679 0.2109 *

Venus 5847-07-23 18:28 G 3856836.15 3856836.27 3856836.38 0.3691 0.1951

Jupiter 5849-04-02 06:43 G 3857454.61 3857454.78 3857454.95 0.0486 0.0097

Mars	5850-05-13 11:45 G	3857860.95	3857860.99	3857861.03	0.1885	0.1736
Mars	5851-06-07 13:55 G	3858250.92	3858251.08	3858251.23	0.1664	0.0429
Venus	5851-07-24 12:28 G	3858297.91	3858298.02	3858298.13	0.3680	0.0798
Mars	5852-04-18 03:07 G	3858566.55	3858566.63	3858566.72	0.1859	0.1252
Venus	5853-02-05 21:07 G	3858860.25	3858860.38	3858860.52	0.3690	0.0720
Earth	5853-12-22 16:33 G	3859180.11	3859180.19	3859180.27	0.2674	0.1880
Moon	5853-12-22 17:02 G	3859180.14	3859180.21	3859180.29	0.2677	0.1856 *
Jupiter	5855-03-06 23:16 G	3859619.34	3859619.47	3859619.61	0.0541	0.0072
Saturn	5856-08-12 16:48 G	3860144.09	3860144.20	3860144.31	0.0278	0.0178
Saturn	5856-11-09 05:45 G	3860232.60	3860232.74	3860232.88	0.0279	0.0065
Saturn	5857-02-05 18:28 G	3860321.13	3860321.27	3860321.41	0.0279	0.0048
Venus	5857-02-06 05:31 G	3860321.63	3860321.73	3860321.84	0.3681	0.0538
Saturn	5857-05-05 06:57 G	3860409.68	3860409.79	3860409.90	0.0280	0.0159
Saturn	5857-08-01 19:26 G	3860498.27	3860498.31	3860498.34	0.0281	0.0269
Venus	5858-08-23 00:43 G	3860884.49	3860884.53	3860884.57	0.3689	0.3533
Mars	5860-10-27 15:21 G	3861680.98	3861681.14	3861681.30	0.1659	0.0368
Jupiter	5861-01-19 06:14 G	3861764.61	3861764.76	3861764.91	0.0486	0.0251
Jupiter	5861-04-19 06:14 G	3861854.66	3861854.76	3861854.87	0.0487	0.0379
Mars	5861-09-08 11:31 G	3861996.87	3861996.98	3861997.10	0.1866	0.0560
Venus	5862-08-22 22:33 G	3862345.34	3862345.44	3862345.53	0.3682	0.1820
Jupiter	5866-12-24 02:24 G	3863929.47	3863929.60	3863929.73	0.0541	0.0092
Earth	5866-12-25 10:33 G	3863930.83	3863930.94	3863931.05	0.2676	0.0446
Moon	5866-12-25 11:16 G	3863930.86	3863930.97	3863931.09	0.2675	0.0312 *
Venus	5868-03-07 15:21 G	3864369.08	3864369.14	3864369.19	0.3682	0.3078
Mars	5870-03-19 17:02 G	3865111.10	3865111.21	3865111.33	0.1653	0.1142
Saturn	5870-09-04 16:04 G	3865280.04	3865280.17	3865280.31	0.0281	0.0157
Saturn	5870-12-02 11:16 G	3865368.80	3865368.97	3865369.14	0.0280	0.0018
Mars	5871-01-29 20:09 G	3865427.22	3865427.34	3865427.45	0.1872	0.0167
Saturn	5871-03-01 06:43 G	3865457.63	3865457.78	3865457.94	0.0280	0.0122
Saturn	5871-05-29 02:24 G	3865546.55	3865546.60	3865546.66	0.0279	0.0264

Jupiter	5872-11-07 06:14	G	3866074.67	3866074.76	3866074.86	0.0487	0.0400
Jupiter	5873-02-05 06:00	G	3866164.59	3866164.75	3866164.90	0.0487	0.0223
Moon	5876-06-22 02:09	G	3867397.44	3867397.59	3867397.74	0.2662	0.0593
Earth	5876-06-22 03:07	G	3867397.48	3867397.63	3867397.78	0.2657	0.0560 *
Jupiter	5878-10-12 04:33	G	3868239.57	3868239.69	3868239.81	0.0541	0.0270
Jupiter	5879-01-09 15:07	G	3868329.03	3868329.13	3868329.22	0.0540	0.0378
Earth	5879-12-28 04:48	G	3868681.60	3868681.70	3868681.80	0.2677	0.0994
Moon	5879-12-28 05:16	G	3868681.61	3868681.72	3868681.82	0.2671	0.1033 *
Mars	5880-06-21 04:04	G	3868857.56	3868857.67	3868857.77	0.1879	0.0900
Mars	5881-07-16 13:11	G	3869247.95	3869248.05	3869248.15	0.1670	0.1337
Uranus	5884-04-27 01:26	G	3870263.52	3870263.56	3870263.60	0.0134	0.0127
Uranus	5884-07-24 04:33	G	3870351.62	3870351.69	3870351.78	0.0134	0.0110
Uranus	5884-10-20 07:55	G	3870439.74	3870439.83	3870439.94	0.0134	0.0093
Jupiter	5884-11-24 05:16	G	3870474.55	3870474.72	3870474.90	0.0487	0.0065
Uranus	5885-01-16 11:31	G	3870527.87	3870527.98	3870528.09	0.0134	0.0075
Uranus	5885-04-14 14:38	G	3870616.00	3870616.11	3870616.24	0.0135	0.0058
Uranus	5885-07-11 18:14	G	3870704.13	3870704.26	3870704.39	0.0135	0.0040
Uranus	5885-10-07 21:21	G	3870792.26	3870792.39	3870792.53	0.0135	0.0023
Saturn	5885-12-30 19:40	G	3870876.23	3870876.32	3870876.42	0.0279	0.0202
Uranus	5886-01-04 00:43	G	3870880.40	3870880.53	3870880.67	0.0135	0.0005
Saturn	5886-03-29 08:38	G	3870964.73	3870964.86	3870965.00	0.0279	0.0088
Uranus	5886-04-02 04:04	G	3870968.53	3870968.67	3870968.80	0.0135	0.0013
Saturn	5886-06-25 21:35	G	3871053.26	3871053.40	3871053.54	0.0280	0.0025
Uranus	5886-06-29 07:26	G	3871056.67	3871056.81	3871056.94	0.0135	0.0030
Saturn	5886-09-22 10:04	G	3871141.80	3871141.92	3871142.04	0.0280	0.0137
Uranus	5886-09-25 10:33	G	3871144.82	3871144.94	3871145.07	0.0135	0.0047
Saturn	5886-12-19 22:33	G	3871230.38	3871230.44	3871230.50	0.0281	0.0247
Uranus	5886-12-22 13:40	G	3871232.96	3871233.07	3871233.20	0.0135	0.0065
Uranus	5887-03-20 16:48	G	3871321.11	3871321.20	3871321.32	0.0135	0.0083
Uranus	5887-06-16 20:09	G	3871409.26	3871409.34	3871409.44	0.0135	0.0099

Uranus 5887-09-12 23:16 G 3871497.41 3871497.47 3871497.55 0.0135 0.0117

Uranus 5887-12-10 02:38 G 3871585.59 3871585.61 3871585.63 0.0135 0.0133

Moon 5889-06-25 08:24 G 3872148.76 3872148.85 3872148.95 0.2662 0.2092

Earth 5889-06-25 08:24 G 3872148.76 3872148.85 3872148.94 0.2655 0.2154 *

Mars 5889-11-11 11:45 G 3872287.94 3872287.99 3872288.05 0.1885 0.1662

Jupiter 5890-07-31 07:11 G 3872549.72 3872549.80 3872549.87 0.0541 0.0440

Jupiter 5890-10-28 18:00 G 3872639.13 3872639.25 3872639.37 0.0541 0.0216

Mars 5890-12-06 14:24 G 3872677.95 3872678.10 3872678.26 0.1664 0.0522

Mars 5891-10-18 03:07 G 3872993.55 3872993.63 3872993.71 0.1859 0.1317

Moon 5892-12-29 22:33 G 3873432.39 3873432.44 3873432.49 0.2672 0.2367

Earth 5892-12-29 22:48 G 3873432.40 3873432.45 3873432.49 0.2679 0.2403 *

Jupiter 5896-09-12 04:19 G 3874784.51 3874784.68 3874784.85 0.0486 0.0100

Venus 5897-01-28 23:45 G 3874923.43 3874923.49 3874923.55 0.3679 0.3107

Venus 5898-08-13 16:33 G 3875485.18 3875485.19 3875485.19 0.3691 0.3686

Earth 5899-12-23 21:21 G 3875982.30 3875982.39 3875982.48 0.2674 0.1580

Moon 5899-12-23 22:04 G 3875982.33 3875982.42 3875982.51 0.2677 0.1413 *

Saturn 5900-01-22 18:28 G 3876012.14 3876012.27 3876012.40 0.0281 0.0179

Saturn 5900-04-21 13:26 G 3876100.89 3876101.06 3876101.23 0.0281 0.0042

Mars 5900-04-28 15:50 G 3876108.00 3876108.16 3876108.32 0.1659 0.0282

Saturn 5900-07-19 08:52 G 3876189.71 3876189.87 3876190.03 0.0280 0.0099

Saturn 5900-10-16 04:19 G 3876278.60 3876278.68 3876278.78 0.0279 0.0241

Mars 5901-03-10 11:45 G 3876423.88 3876423.99 3876424.10 0.1866 0.0631

Venus 5902-08-15 17:02 G 3876947.12 3876947.21 3876947.31 0.3680 0.1728

Jupiter 5902-08-17 21:07 G 3876949.25 3876949.38 3876949.52 0.0541 0.0060

Venus 5904-02-28 18:43 G 3877509.15 3877509.28 3877509.41 0.3691 0.1159

Neptune 5908-01-06 08:24 G 3878916.80 3878916.85 3878916.92 0.0088 0.0082

Venus 5908-02-29 10:19 G 3878970.82 3878970.93 3878971.04 0.3680 0.0376

Neptune 5908-04-03 11:02 G 3879004.88 3879004.96 3879005.07 0.0088 0.0074

Neptune 5908-06-30 13:55 G 3879092.97 3879093.08 3879093.21 0.0088 0.0065

Jupiter 5908-07-02 04:19 G 3879094.53 3879094.68 3879094.83 0.0486 0.0251

Neptune 5908-09-26 17:02 G 3879181.07 3879181.21 3879181.34 0.0088 0.0056

Jupiter 5908-09-30 04:19 G 3879184.57 3879184.68 3879184.79 0.0487 0.0378

Neptune 5908-12-23 19:26 G 3879269.18 3879269.31 3879269.47 0.0088 0.0048

Neptune 5909-03-21 22:33 G 3879357.28 3879357.44 3879357.60 0.0088 0.0039

Neptune 5909-06-18 01:26 G 3879445.40 3879445.56 3879445.73 0.0088 0.0030

Venus 5909-09-13 21:50 G 3879533.28 3879533.41 3879533.53 0.3690 0.1557

Neptune 5909-09-14 04:04 G 3879533.51 3879533.67 3879533.86 0.0088 0.0022 *

Mars 5909-09-18 18:00 G 3879538.12 3879538.25 3879538.37 0.1654 0.1047

Neptune 5909-12-11 07:11 G 3879621.62 3879621.80 3879621.98 0.0088 0.0013

Neptune 5910-03-09 10:04 G 3879709.74 3879709.92 3879710.10 0.0088 0.0004

Neptune 5910-06-05 12:57 G 3879797.86 3879798.04 3879798.22 0.0088 0.0005

Mars 5910-07-31 19:55 G 3879854.21 3879854.33 3879854.45 0.1872 0.0098

Neptune 5910-09-01 15:50 G 3879885.99 3879886.16 3879886.34 0.0088 0.0014

Neptune 5910-11-28 18:43 G 3879974.11 3879974.28 3879974.46 0.0088 0.0023

Neptune 5911-02-24 21:35 G 3880062.24 3880062.40 3880062.58 0.0088 0.0032

Neptune 5911-05-24 00:43 G 3880150.37 3880150.53 3880150.69 0.0088 0.0040

Neptune 5911-08-20 03:35 G 3880238.50 3880238.65 3880238.80 0.0088 0.0049

Neptune 5911-11-16 06:43 G 3880326.64 3880326.78 3880326.91 0.0088 0.0058

Neptune 5912-02-12 09:35 G 3880414.79 3880414.90 3880415.02 0.0088 0.0067

Neptune 5912-05-10 12:00 G 3880502.94 3880503.00 3880503.11 0.0088 0.0077

Neptune 5912-08-06 15:07 G 3880591.11 3880591.13 3880591.19 0.0088 0.0086

Earth 5912-12-26 15:35 G 3880733.04 3880733.15 3880733.26 0.2676 0.0140

Moon 5912-12-26 16:19 G 3880733.06 3880733.18 3880733.29 0.2674 0.0119 *

Venus 5913-09-14 03:21 G 3880994.54 3880994.64 3880994.74 0.3681 0.0938

Jupiter 5914-06-06 00:28 G 3881259.39 3881259.52 3881259.66 0.0541 0.0099

Saturn 5915-05-20 21:21 G 3881608.32 3881608.39 3881608.46 0.0278 0.0238

Saturn 5915-08-17 10:19 G 3881696.80 3881696.93 3881697.06 0.0278 0.0125

Saturn 5915-11-13 23:02 G 3881785.32 3881785.46 3881785.60 0.0279 0.0012

Saturn 5916-02-10 11:31 G 3881873.86 3881873.98 3881874.12 0.0280 0.0101

Saturn 5916-05-09 00:14 G 3881962.42 3881962.51 3881962.60 0.0280 0.0211

Venus 5919-03-30 20:09 G 3883018.26 3883018.34 3883018.43 0.3682 0.2227

Mars 5919-12-22 04:04 G 3883284.56 3883284.67 3883284.78 0.1879 0.0829

Pluto 5920-01-05 11:16 G 3883298.93 3883298.97 3883299.04 0.0071 0.0065

Pluto 5920-04-02 12:00 G 3883386.93 3883387.00 3883387.10 0.0071 0.0057

Jupiter 5920-04-20 04:04 G 3883404.58 3883404.67 3883404.76 0.0486 0.0404

Pluto 5920-06-29 12:57 G 3883474.95 3883475.04 3883475.15 0.0071 0.0047

Jupiter 5920-07-19 03:35 G 3883494.49 3883494.65 3883494.80 0.0487 0.0218

Pluto 5920-09-25 13:55 G 3883562.97 3883563.08 3883563.20 0.0071 0.0038

Pluto 5920-12-22 14:38 G 3883650.99 3883651.11 3883651.24 0.0071 0.0030

Mars 5921-01-15 13:55 G 3883675.00 3883675.08 3883675.16 0.1670 0.1437

Pluto 5921-03-20 15:35 G 3883739.02 3883739.15 3883739.28 0.0072 0.0020

Pluto 5921-06-16 16:19 G 3883827.05 3883827.18 3883827.32 0.0072 0.0012

Pluto 5921-09-12 17:16 G 3883915.08 3883915.22 3883915.36 0.0072 0.0002

Pluto 5921-12-09 18:00 G 3884003.12 3884003.25 3884003.39 0.0072 0.0008

Pluto 5922-03-07 18:43 G 3884091.16 3884091.28 3884091.43 0.0072 0.0017

Pluto 5922-06-03 19:40 G 3884179.20 3884179.32 3884179.46 0.0072 0.0026

Moon 5922-06-24 08:52 G 3884199.72 3884199.87 3884200.02 0.2663 0.0218

Earth 5922-06-24 09:21 G 3884199.74 3884199.89 3884200.05 0.2657 0.0070 *

Pluto 5922-08-30 20:38 G 3884267.24 3884267.36 3884267.48 0.0072 0.0036

Pluto 5922-11-26 21:21 G 3884355.29 3884355.39 3884355.51 0.0072 0.0045

Pluto 5923-02-22 22:19 G 3884443.34 3884443.43 3884443.52 0.0073 0.0055

Pluto 5923-05-21 23:02 G 3884531.41 3884531.46 3884531.53 0.0073 0.0065

Venus 5924-10-13 12:57 G 3885042.01 3885042.04 3885042.07 0.3682 0.3460

Uranus 5925-02-14 05:45 G 3885165.72 3885165.74 3885165.77 0.0144 0.0142

Uranus 5925-05-13 13:11 G 3885253.95 3885254.05 3885254.16 0.0144 0.0114

Uranus 5925-08-09 20:38 G 3885342.22 3885342.36 3885342.51 0.0144 0.0086

Uranus 5925-11-06 04:04 G 3885430.51 3885430.67 3885430.84 0.0144 0.0058

Earth 5925-12-29 09:35 G 3885483.80 3885483.90 3885484.00 0.2677 0.1292

Moon 5925-12-29 10:04 G 3885483.82 3885483.92 3885484.01 0.2671 0.1372 *

Uranus 5926-02-02 11:31 G 3885518.81 3885518.98 3885519.17 0.0144 0.0030

Jupiter	5926-03-25 03:35 G	3885569.53	3885569.65	3885569.77	0.0541	0.0260	
Uranus	5926-05-01 19:11 G	3885607.12	3885607.30	3885607.49	0.0144	0.0002	
Jupiter	5926-06-22 14:09 G	3885659.00	3885659.09	3885659.18	0.0541	0.0389	
Uranus	5926-07-29 02:52 G	3885695.44	3885695.62	3885695.80	0.0144	0.0028	
Uranus	5926-10-25 10:19 G	3885783.77	3885783.93	3885784.11	0.0143	0.0057	
Uranus	5927-01-21 18:00 G	3885872.11	3885872.25	3885872.41	0.0143	0.0086	
Uranus	5927-04-20 01:40 G	3885960.47	3885960.57	3885960.69	0.0143	0.0115	
Mars	5929-05-13 12:00 G	3886714.94	3886715.00	3886715.06	0.1885	0.1581	
Saturn	5929-06-11 17:02 G	3886744.12	3886744.21	3886744.31	0.0281	0.0229	
Saturn	5929-09-08 12:00 G	3886832.84	3886833.00	3886833.17	0.0281	0.0092	
Saturn	5929-12-06 07:26 G	3886921.64	3886921.81	3886921.98	0.0280	0.0048	
Saturn	5930-03-05 02:52 G	3887010.50	3887010.62	3887010.75	0.0280	0.0189	
Mars	5930-06-07 14:52 G	3887104.97	3887105.12	3887105.28	0.1664	0.0609	
Mars	5931-04-19 03:21 G	3887420.56	3887420.64	3887420.72	0.1859	0.1392	
Jupiter	5932-05-07 03:07 G	3887804.46	3887804.63	3887804.81	0.0487	0.0065	
Moon	5932-12-22 08:24 G	3888033.84	3888033.85	3888033.86	0.2678	0.2650	
Jupiter	5938-01-11 05:45 G	3889879.66	3889879.74	3889879.82	0.0541	0.0436	
Jupiter	5938-04-10 16:33 G	3889969.07	3889969.19	3889969.31	0.0540	0.0219	
Moon	5939-01-01 03:21 G	3890234.62	3890234.64	3890234.65	0.2673	0.2637	
Mars	5939-10-28 16:33 G	3890535.03	3890535.19	3890535.35	0.1659	0.0192	
Mars	5940-09-08 11:45 G	3890850.88	3890850.99	3890851.10	0.1865	0.0698	
Jupiter	5944-02-24 02:52 G	3892114.45	3892114.62	3892114.79	0.0487	0.0093	
Saturn	5944-10-06 23:45 G	3892340.45	3892340.49	3892340.53	0.0278	0.0265	
Saturn	5945-01-03 12:43 G	3892428.91	3892429.03	3892429.15	0.0279	0.0151	
Saturn	5945-04-02 01:40 G	3892517.43	3892517.57	3892517.71	0.0279	0.0038	
Saturn	5945-06-29 14:24 G	3892605.96	3892606.10	3892606.23	0.0280	0.0074	
Saturn	5945-09-26 02:52 G	3892694.52	3892694.62	3892694.72	0.0281	0.0185	
Earth	5945-12-25 02:24 G	3892784.50	3892784.60	3892784.69	0.2674	0.1276	
Moon	5945-12-25 03:07 G	3892784.53	3892784.63	3892784.72	0.2677	0.1241	*
Mars	5949-03-19 18:28 G	3893965.14	3893965.27	3893965.40	0.1654	0.0961	

Jupiter 5950-01-27 19:26 G 3894279.18 3894279.31 3894279.44 0.0541 0.0056

Mars 5950-01-29 20:09 G 3894281.22 3894281.34 3894281.45 0.1872 0.0070

Venus 5953-09-05 21:35 G 3895596.33 3895596.40 3895596.48 0.3679 0.2669

Venus 5955-03-21 16:33 G 3896158.11 3896158.19 3896158.28 0.3691 0.2933

Moon 5955-06-22 09:21 G 3896250.83 3896250.89 3896250.96 0.2661 0.2394

Earth 5955-06-22 10:48 G 3896250.86 3896250.95 3896251.04 0.2658 0.2157 *

Jupiter 5955-12-13 02:09 G 3896424.44 3896424.59 3896424.74 0.0486 0.0252

Jupiter 5956-03-12 02:09 G 3896514.48 3896514.59 3896514.70 0.0487 0.0377

Saturn 5958-10-29 19:26 G 3897476.24 3897476.31 3897476.38 0.0282 0.0252

Earth 5958-12-27 20:24 G 3897535.24 3897535.35 3897535.46 0.2676 0.0170

Moon 5958-12-27 21:07 G 3897535.27 3897535.38 3897535.49 0.2672 0.0323 *

Saturn 5959-01-26 14:24 G 3897564.94 3897565.10 3897565.25 0.0281 0.0115

Venus 5959-03-22 15:07 G 3897620.03 3897620.13 3897620.23 0.3680 0.1287

Saturn 5959-04-25 09:35 G 3897653.73 3897653.90 3897654.07 0.0280 0.0025

Mars 5959-06-22 04:04 G 3897711.57 3897711.67 3897711.78 0.1878 0.0757

Saturn 5959-07-23 04:48 G 3897742.57 3897742.70 3897742.85 0.0280 0.0165

Mars 5960-07-16 14:38 G 3898102.05 3898102.11 3898102.17 0.1670 0.1533

Venus 5960-10-04 19:11 G 3898182.16 3898182.30 3898182.44 0.3690 0.0342

Jupiter 5961-11-15 22:33 G 3898589.31 3898589.44 3898589.57 0.0542 0.0108

Jupiter 5962-02-13 08:38 G 3898678.85 3898678.86 3898678.88 0.0541 0.0535

Venus 5964-10-05 08:09 G 3899643.73 3899643.84 3899643.95 0.3681 0.0082

Venus 5966-04-20 22:19 G 3900206.32 3900206.43 3900206.54 0.3689 0.2391

Jupiter 5967-10-01 02:24 G 3900734.50 3900734.60 3900734.69 0.0486 0.0400

Jupiter 5967-12-30 01:40 G 3900824.41 3900824.57 3900824.73 0.0486 0.0220

Uranus 5968-05-18 08:09 G 3900964.80 3900964.84 3900964.90 0.0134 0.0124

Moon 5968-06-24 15:21 G 3901001.99 3901002.14 3901002.29 0.2663 0.0523

Earth 5968-06-24 15:50 G 3901002.01 3901002.16 3901002.31 0.2656 0.0496 *

Uranus 5968-08-14 11:45 G 3901052.91 3901052.99 3901053.08 0.0134 0.0106

Uranus 5968-11-10 15:07 G 3901141.03 3901141.13 3901141.24 0.0134 0.0089

Mars 5968-11-11 12:00 G 3901141.93 3901142.00 3901142.06 0.1885 0.1521

Uranus	5969-02-06 18:28 G	3901229.16	3901229.27	3901229.39	0.0134	0.0071
Uranus	5969-05-05 21:50 G	3901317.29	3901317.41	3901317.54	0.0135	0.0054
Uranus	5969-08-02 01:11 G	3901405.42	3901405.55	3901405.68	0.0135	0.0036
Uranus	5969-10-29 04:33 G	3901493.56	3901493.69	3901493.83	0.0135	0.0019
Mars	5969-12-06 15:35 G	3901532.01	3901532.15	3901532.30	0.1664	0.0704
Uranus	5970-01-25 07:55 G	3901581.69	3901581.83	3901581.96	0.0135	0.0003
Venus	5970-04-21 01:11 G	3901667.45	3901667.55	3901667.65	0.3681	0.1349
Uranus	5970-04-23 11:02 G	3901669.83	3901669.96	3901670.10	0.0135	0.0017
Uranus	5970-07-20 14:24 G	3901757.97	3901758.10	3901758.23	0.0135	0.0034
Uranus	5970-10-16 17:31 G	3901846.11	3901846.23	3901846.36	0.0135	0.0051
Mars	5970-10-18 03:21 G	3901847.57	3901847.64	3901847.71	0.1859	0.1453
Uranus	5971-01-12 20:52 G	3901934.26	3901934.37	3901934.49	0.0135	0.0068
Uranus	5971-04-11 00:14 G	3902022.40	3902022.51	3902022.61	0.0135	0.0085
Uranus	5971-07-08 03:21 G	3902110.56	3902110.64	3902110.73	0.0135	0.0103
Uranus	5971-10-04 06:28 G	3902198.72	3902198.77	3902198.84	0.0135	0.0120
Earth	5971-12-30 14:24 G	3902286.02	3902286.10	3902286.19	0.2678	0.1591
Moon	5971-12-30 14:52 G	3902286.03	3902286.12	3902286.21	0.2671	0.1585 *
Jupiter	5973-09-04 01:40 G	3902899.46	3902899.57	3902899.69	0.0542	0.0264
Jupiter	5973-12-02 12:14 G	3902988.92	3902989.01	3902989.10	0.0541	0.0387
Saturn	5974-05-23 14:09 G	3903160.99	3903161.09	3903161.20	0.0278	0.0188
Saturn	5974-08-20 03:07 G	3903249.50	3903249.63	3903249.77	0.0278	0.0075
Saturn	5974-11-16 15:50 G	3903338.02	3903338.16	3903338.30	0.0279	0.0037
Saturn	5975-02-13 04:19 G	3903426.57	3903426.68	3903426.80	0.0280	0.0148
Saturn	5975-05-12 16:48 G	3903515.15	3903515.20	3903515.25	0.0280	0.0258
Venus	5975-11-04 18:00 G	3903691.18	3903691.25	3903691.33	0.3682	0.2620
Earth	5978-12-23 12:57 G	3904836.00	3904836.04	3904836.08	0.2673	0.2422
Moon	5978-12-23 13:26 G	3904836.01	3904836.06	3904836.11	0.2678	0.2374 *
Mars	5979-04-28 17:02 G	3904962.05	3904962.21	3904962.38	0.1659	0.0106
Jupiter	5979-10-18 01:11 G	3905134.37	3905134.55	3905134.72	0.0487	0.0063
Mars	5980-03-09 11:45 G	3905277.89	3905277.99	3905278.10	0.1866	0.0765

Jupiter 5985-06-23 04:48 G 3907209.62 3907209.70 3907209.78 0.0542 0.0426

Jupiter 5985-09-20 15:35 G 3907299.03 3907299.15 3907299.27 0.0541 0.0231

Saturn 5988-06-14 12:14 G 3908296.88 3908297.01 3908297.15 0.0281 0.0169

Saturn 5988-09-11 07:26 G 3908385.64 3908385.81 3908385.98 0.0281 0.0030

Mars 5988-09-17 18:57 G 3908392.15 3908392.29 3908392.42 0.1654 0.0878

Saturn 5988-12-09 02:52 G 3908474.46 3908474.62 3908474.78 0.0280 0.0110

Saturn 5989-03-07 22:33 G 3908563.37 3908563.44 3908563.52 0.0279 0.0252

Mars 5989-07-30 20:09 G 3908708.22 3908708.34 3908708.46 0.1872 0.0064

Neptune 5990-01-18 14:38 G 3908880.10 3908880.11 3908880.13 0.0089 0.0089

Neptune 5990-04-16 16:04 G 3908968.12 3908968.17 3908968.24 0.0089 0.0081

Neptune 5990-07-13 18:00 G 3909056.17 3909056.25 3909056.33 0.0089 0.0074

Neptune 5990-10-09 19:26 G 3909144.23 3909144.31 3909144.41 0.0089 0.0066

Neptune 5991-01-05 21:21 G 3909232.28 3909232.39 3909232.50 0.0089 0.0059

Neptune 5991-04-03 22:48 G 3909320.34 3909320.45 3909320.57 0.0089 0.0052

Neptune 5991-07-01 00:28 G 3909408.40 3909408.52 3909408.65 0.0089 0.0044

Jupiter 5991-08-06 00:57 G 3909444.37 3909444.54 3909444.71 0.0487 0.0091

Neptune 5991-09-27 02:09 G 3909496.47 3909496.59 3909496.72 0.0089 0.0037

Neptune 5991-12-24 03:50 G 3909584.53 3909584.66 3909584.80 0.0089 0.0029

Earth 5991-12-26 07:11 G 3909586.70 3909586.80 3909586.90 0.2675 0.0969

Moon 5991-12-26 07:55 G 3909586.72 3909586.83 3909586.94 0.2676 0.0815 *

Neptune 5992-03-21 05:31 G 3909672.59 3909672.73 3909672.87 0.0089 0.0022

Neptune 5992-06-17 07:11 G 3909760.66 3909760.80 3909760.94 0.0089 0.0015

Neptune 5992-09-13 08:38 G 3909848.72 3909848.86 3909849.01 0.0089 0.0008

Neptune 5992-12-10 10:19 G 3909936.79 3909936.93 3909937.07 0.0089 0.0001

Neptune 5993-03-08 12:00 G 3910024.86 3910025.00 3910025.14 0.0089 0.0007

Neptune 5993-06-04 13:26 G 3910112.93 3910113.06 3910113.20 0.0089 0.0015

Neptune 5993-08-31 15:07 G 3910200.99 3910201.13 3910201.27 0.0089 0.0022

Neptune 5993-11-27 16:33 G 3910289.06 3910289.19 3910289.33 0.0089 0.0029

Neptune 5994-02-23 18:14 G 3910377.14 3910377.26 3910377.39 0.0089 0.0036

Neptune 5994-05-22 19:40 G 3910465.21 3910465.32 3910465.45 0.0089 0.0044

Neptune	**5994-08-18 21:21**	**G**	**3910553.28**	**3910553.39**	**3910553.51**	**0.0089**	**0.0051**	
Neptune	**5994-11-14 23:02**	**G**	**3910641.35**	**3910641.46**	**3910641.56**	**0.0089**	**0.0058**	
Neptune	**5995-02-11 00:14**	**G**	**3910729.43**	**3910729.51**	**3910729.62**	**0.0089**	**0.0065**	
Neptune	**5995-05-10 01:40**	**G**	**3910817.51**	**3910817.57**	**3910817.67**	**0.0089**	**0.0073**	
Neptune	**5995-08-06 03:21**	**G**	**3910905.59**	**3910905.64**	**3910905.71**	**0.0089**	**0.0079**	
Neptune	**5995-11-02 04:48**	**G**	**3910993.68**	**3910993.70**	**3910993.75**	**0.0089**	**0.0087**	
Jupiter	**5997-07-09 18:14**	**G**	**3911609.13**	**3911609.26**	**3911609.39**	**0.0541**	**0.0062**	
Mars	**5998-02-07 21:07**	**G**	**3911822.36**	**3911822.38**	**3911822.41**	**0.1649**	**0.1617**	
Mars	**5998-12-21 04:04**	**G**	**3912138.56**	**3912138.67**	**3912138.78**	**0.1878**	**0.0689**	
Mars	**6000-01-15 15:07**	**G**	**3912529.09**	**3912529.13**	**3912529.17**	**0.1670**	**0.1619**	

7TH MILLENNIUM CE

This is a list of transits of Mercury in the 7th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	**6001-06-22 15:50**	**G**	**3913053.05**	**3913053.16**	**3913053.27**	**0.2662**	**0.1776**	
Earth	**6001-06-22 17:02**	**G**	**3913053.09**	**3913053.21**	**3913053.33**	**0.2658**	**0.1644**	*****
Jupiter	**6003-05-25 00:43**	**G**	**3913754.39**	**3913754.53**	**3913754.68**	**0.0487**	**0.0244**	
Jupiter	**6003-08-23 00:43**	**G**	**3913844.43**	**3913844.53**	**3913844.64**	**0.0487**	**0.0387**	
Saturn	**6003-10-10 16:19**	**G**	**3913893.10**	**3913893.18**	**3913893.27**	**0.0278**	**0.0218**	
Saturn	**6004-01-07 05:16**	**G**	**3913981.59**	**3913981.72**	**3913981.86**	**0.0279**	**0.0105**	
Saturn	**6004-04-04 18:14**	**G**	**3914070.12**	**3914070.26**	**3914070.40**	**0.0279**	**0.0009**	
Saturn	**6004-07-02 06:43**	**G**	**3914158.66**	**3914158.78**	**3914158.91**	**0.0280**	**0.0120**	
Venus	**6004-09-27 02:09**	**G**	**3914245.58**	**3914245.59**	**3914245.61**	**0.3679**	**0.3623**	

Saturn	6004-09-28 19:11 G	3914247.23	3914247.30	3914247.38	0.0281	0.0230	
Earth	6004-12-28 01:26 G	3914337.45	3914337.56	3914337.67	0.2676	0.0479	
Moon	6004-12-28 01:55 G	3914337.47	3914337.58	3914337.69	0.2672	0.0489	*
Pluto	6005-08-28 03:35 G	3914580.59	3914580.65	3914580.74	0.0073	0.0066	
Pluto	6005-11-24 06:00 G	3914668.63	3914668.75	3914668.87	0.0072	0.0053	
Pluto	6006-02-20 07:40 G	3914756.68	3914756.82	3914756.99	0.0072	0.0041	
Pluto	6006-05-19 10:04 G	3914844.75	3914844.92	3914845.09	0.0072	0.0028	
Pluto	6006-08-15 12:00 G	3914932.83	3914933.00	3914933.18	0.0072	0.0015	
Pluto	6006-11-11 14:09 G	3915020.90	3915021.09	3915021.27	0.0072	0.0003	
Pluto	6007-02-07 15:50 G	3915108.99	3915109.16	3915109.35	0.0072	0.0010	
Pluto	6007-05-06 17:45 G	3915197.08	3915197.24	3915197.43	0.0072	0.0022	
Pluto	6007-08-02 19:40 G	3915285.17	3915285.32	3915285.50	0.0072	0.0034	
Pluto	6007-10-29 21:35 G	3915373.28	3915373.40	3915373.56	0.0072	0.0046	
Pluto	6008-01-25 23:31 G	3915461.39	3915461.48	3915461.60	0.0071	0.0058	
Pluto	6008-04-23 01:11 G	3915549.53	3915549.55	3915549.62	0.0071	0.0070	
Mars	6008-05-12 12:00 G	3915568.93	3915569.00	3915569.08	0.1885	0.1441	
Uranus	6009-03-06 12:57 G	3915866.99	3915867.04	3915867.11	0.0144	0.0136	
Jupiter	6009-04-27 21:07 G	3915919.25	3915919.38	3915919.51	0.0541	0.0105	
Uranus	6009-06-02 20:24 G	3915955.24	3915955.35	3915955.48	0.0144	0.0108	
Mars	6009-06-06 16:19 G	3915959.04	3915959.18	3915959.33	0.1665	0.0798	
Jupiter	6009-07-26 07:11 G	3916008.79	3916008.80	3916008.81	0.0540	0.0536	
Uranus	6009-08-30 03:50 G	3916043.52	3916043.66	3916043.82	0.0144	0.0080	
Uranus	6009-11-26 11:16 G	3916131.81	3916131.97	3916132.15	0.0144	0.0052	
Uranus	6010-02-22 18:57 G	3916220.11	3916220.29	3916220.47	0.0144	0.0023	
Venus	6010-04-12 19:40 G	3916269.23	3916269.32	3916269.41	0.3680	0.2221	
Mars	6010-04-18 03:21 G	3916274.57	3916274.64	3916274.70	0.1859	0.1523	
Uranus	6010-05-22 02:24 G	3916308.42	3916308.60	3916308.79	0.0144	0.0007	
Uranus	6010-08-18 10:04 G	3916396.74	3916396.92	3916397.10	0.0144	0.0034	
Uranus	6010-11-14 17:31 G	3916485.07	3916485.23	3916485.41	0.0143	0.0063	
Uranus	6011-02-11 01:11 G	3916573.42	3916573.55	3916573.70	0.0143	0.0092	

Uranus	6011-05-10 08:52 G	3916661.78	3916661.87	3916661.98	0.0143	0.0121
Venus	6011-10-26 17:02 G	3916831.10	3916831.21	3916831.32	0.3691	0.2154
Moon	6014-06-25 21:50 G	3917804.27	3917804.41	3917804.55	0.2663	0.0900
Earth	6014-06-25 22:19 G	3917804.29	3917804.43	3917804.57	0.2656	0.1036 *
Jupiter	6015-03-13 00:28 G	3918064.42	3918064.52	3918064.61	0.0486	0.0398
Jupiter	6015-06-10 23:45 G	3918154.34	3918154.49	3918154.65	0.0487	0.0222
Venus	6015-10-27 12:57 G	3918292.93	3918293.04	3918293.15	0.3680	0.0857
Venus	6017-05-11 19:40 G	3918855.18	3918855.32	3918855.46	0.3690	0.0475
Saturn	6017-11-01 14:09 G	3919028.97	3919029.09	3919029.21	0.0282	0.0195
Earth	6017-12-30 19:26 G	3919088.23	3919088.31	3919088.38	0.2678	0.1884
Moon	6017-12-30 19:26 G	3919088.24	3919088.31	3919088.39	0.2671	0.1944 *
Saturn	6018-01-29 09:07 G	3919117.72	3919117.88	3919118.05	0.0281	0.0058
Saturn	6018-04-28 04:33 G	3919206.53	3919206.69	3919206.86	0.0280	0.0083
Saturn	6018-07-26 00:14 G	3919295.41	3919295.51	3919295.61	0.0280	0.0224
Mars	6018-10-27 17:45 G	3919389.08	3919389.24	3919389.40	0.1659	0.0010
Mars	6019-09-08 11:45 G	3919704.89	3919704.99	3919705.10	0.1865	0.0838
Jupiter	6021-02-13 23:45 G	3920229.38	3920229.49	3920229.61	0.0542	0.0271
Venus	6021-05-12 06:00 G	3920316.64	3920316.75	3920316.86	0.3681	0.0474
Jupiter	6021-05-14 10:19 G	3920318.84	3920318.93	3920319.03	0.0541	0.0381
Venus	6022-11-25 23:02 G	3920879.39	3920879.46	3920879.52	0.3689	0.3256
Earth	6024-12-23 17:45 G	3921638.18	3921638.24	3921638.31	0.2673	0.2120
Moon	6024-12-23 18:28 G	3921638.20	3921638.27	3921638.34	0.2678	0.2040 *
Venus	6026-11-25 23:02 G	3922340.37	3922340.46	3922340.55	0.3682	0.1758
Jupiter	6027-03-29 23:31 G	3922464.31	3922464.48	3922464.65	0.0486	0.0069
Mars	6028-03-18 19:40 G	3922819.18	3922819.32	3922819.46	0.1654	0.0785
Mars	6029-01-28 20:09 G	3923135.22	3923135.34	3923135.46	0.1872	0.0122
Venus	6032-06-10 15:50 G	3924364.10	3924364.16	3924364.22	0.3682	0.3015
Jupiter	6032-12-03 02:52 G	3924539.55	3924539.62	3924539.71	0.0542	0.0429
Saturn	6033-02-26 18:00 G	3924625.19	3924625.25	3924625.31	0.0277	0.0253
Jupiter	6033-03-02 13:55 G	3924628.97	3924629.08	3924629.20	0.0541	0.0231

Saturn 6033-05-26 06:57 G 3924713.67 3924713.79 3924713.91 0.0278 0.0141

Saturn 6033-08-22 19:40 G 3924802.18 3924802.32 3924802.46 0.0278 0.0030

Saturn 6033-11-19 08:24 G 3924890.72 3924890.85 3924890.98 0.0279 0.0083

Saturn 6034-02-15 20:52 G 3924979.27 3924979.37 3924979.47 0.0280 0.0193

Mars 6037-08-08 21:50 G 3926249.35 3926249.41 3926249.46 0.1649 0.1534

Earth 6037-12-26 12:00 G 3926388.90 3926389.00 3926389.11 0.2675 0.0668

Moon 6037-12-26 12:43 G 3926388.92 3926389.03 3926389.14 0.2674 0.0601 *

Mars 6038-06-21 04:19 G 3926565.57 3926565.68 3926565.79 0.1879 0.0610

Jupiter 6039-01-15 23:16 G 3926774.30 3926774.47 3926774.64 0.0486 0.0088

Jupiter 6044-12-19 17:16 G 3928939.09 3928939.22 3928939.36 0.0541 0.0076

Saturn 6047-03-21 12:00 G 3929760.93 3929761.00 3929761.08 0.0282 0.0250

Saturn 6047-06-18 06:57 G 3929849.63 3929849.79 3929849.94 0.0281 0.0113

Moon 6047-06-23 22:19 G 3929855.30 3929855.43 3929855.57 0.2663 0.1239

Earth 6047-06-23 23:31 G 3929855.34 3929855.48 3929855.61 0.2658 0.1125 *

Saturn 6047-09-15 02:09 G 3929938.42 3929938.59 3929938.76 0.0281 0.0026

Mars 6047-11-11 12:14 G 3929995.93 3929996.01 3929996.09 0.1884 0.1370

Saturn 6047-12-12 21:35 G 3930027.26 3930027.40 3930027.54 0.0280 0.0167

Mars 6048-12-05 16:48 G 3930386.06 3930386.20 3930386.34 0.1665 0.0879

Mars 6049-10-17 03:21 G 3930701.58 3930701.64 3930701.70 0.1859 0.1594

Jupiter 6050-11-03 23:02 G 3931084.32 3931084.46 3931084.62 0.0486 0.0239

Earth 6050-12-29 06:14 G 3931139.65 3931139.76 3931139.87 0.2676 0.0768

Moon 6050-12-29 06:43 G 3931139.68 3931139.78 3931139.89 0.2672 0.0910 *

Jupiter 6051-02-01 23:02 G 3931174.36 3931174.46 3931174.57 0.0487 0.0392

Uranus 6052-06-07 15:35 G 3931666.10 3931666.15 3931666.22 0.0134 0.0119

Uranus 6052-09-03 18:57 G 3931754.21 3931754.29 3931754.39 0.0134 0.0102

Uranus 6052-11-30 22:33 G 3931842.33 3931842.44 3931842.55 0.0134 0.0084

Uranus 6053-02-27 01:55 G 3931930.46 3931930.58 3931930.70 0.0134 0.0066

Uranus 6053-05-26 05:16 G 3932018.59 3932018.72 3932018.85 0.0135 0.0049

Uranus 6053-08-22 08:24 G 3932106.73 3932106.85 3932106.99 0.0135 0.0032

Uranus 6053-11-18 12:00 G 3932194.86 3932195.00 3932195.13 0.0135 0.0014

Uranus	6054-02-14 15:07 G	3932283.00	3932283.13	3932283.27	0.0135	0.0006
Uranus	6054-05-13 18:28 G	3932371.14	3932371.27	3932371.41	0.0135	0.0021
Uranus	6054-08-09 21:35 G	3932459.28	3932459.40	3932459.54	0.0135	0.0039
Uranus	6054-11-06 00:57 G	3932547.42	3932547.54	3932547.67	0.0135	0.0056
Uranus	6055-02-02 04:19 G	3932635.57	3932635.68	3932635.79	0.0135	0.0073
Uranus	6055-05-01 07:26 G	3932723.72	3932723.81	3932723.91	0.0135	0.0091
Uranus	6055-07-28 10:48 G	3932811.87	3932811.95	3932812.03	0.0135	0.0108
Uranus	6055-10-24 13:55 G	3932900.03	3932900.08	3932900.13	0.0135	0.0125
Jupiter	6056-10-07 19:55 G	3933249.20	3933249.33	3933249.47	0.0541	0.0096
Mars	6058-04-27 18:14 G	3933816.10	3933816.26	3933816.43	0.1659	0.0094
Mars	6059-03-09 12:00 G	3934131.90	3934132.00	3934132.10	0.1865	0.0909
Moon	6060-06-26 04:19 G	3934606.56	3934606.68	3934606.80	0.2662	0.1588
Earth	6060-06-26 04:33 G	3934606.57	3934606.69	3934606.82	0.2656	0.1565 *
Venus	6061-05-04 00:14 G	3934918.45	3934918.51	3934918.56	0.3679	0.3172
Jupiter	6062-08-22 23:16 G	3935394.37	3935394.47	3935394.57	0.0486	0.0389
Saturn	6062-10-13 08:38 G	3935445.75	3935445.86	3935445.97	0.0278	0.0174
Jupiter	6062-11-20 22:33 G	3935484.29	3935484.44	3935484.60	0.0487	0.0233
Saturn	6063-01-09 21:35 G	3935534.26	3935534.40	3935534.54	0.0279	0.0061
Saturn	6063-04-08 10:19 G	3935622.79	3935622.93	3935623.07	0.0279	0.0051
Saturn	6063-07-05 22:48 G	3935711.34	3935711.45	3935711.56	0.0280	0.0161
Saturn	6063-10-02 11:02 G	3935799.93	3935799.96	3935800.00	0.0281	0.0271
Moon	6064-01-01 00:14 G	3935890.44	3935890.51	3935890.57	0.2671	0.2107
Earth	6064-01-01 00:14 G	3935890.45	3935890.51	3935890.57	0.2678	0.2181 *
Venus	6066-11-17 17:31 G	3936942.14	3936942.23	3936942.33	0.3680	0.1786
Mars	6067-09-17 20:09 G	3937246.20	3937246.34	3937246.49	0.1654	0.0696
Venus	6068-06-01 17:31 G	3937504.10	3937504.23	3937504.35	0.3690	0.1361
Jupiter	6068-07-26 22:48 G	3937559.33	3937559.45	3937559.56	0.0541	0.0262
Mars	6068-07-29 20:09 G	3937562.23	3937562.34	3937562.46	0.1872	0.0197
Jupiter	6068-10-24 09:21 G	3937648.80	3937648.89	3937648.98	0.0541	0.0387
Earth	6070-12-24 22:48 G	3938440.37	3938440.45	3938440.53	0.2673	0.1814

Moon 6070-12-24 23:16 G 3938440.39 3938440.47 3938440.56 0.2678 0.1730 *

Venus 6072-06-02 10:48 G 3938965.84 3938965.95 3938966.06 0.3680 0.0440

Neptune 6072-10-02 06:28 G 3939087.72 3939087.77 3939087.86 0.0088 0.0080

Neptune 6072-12-29 09:35 G 3939175.80 3939175.90 3939176.01 0.0088 0.0071

Neptune 6073-03-27 12:14 G 3939263.90 3939264.01 3939264.15 0.0088 0.0063

Neptune 6073-06-23 15:07 G 3939352.00 3939352.13 3939352.28 0.0088 0.0054

Neptune 6073-09-19 18:14 G 3939440.11 3939440.26 3939440.41 0.0088 0.0045

Venus 6073-12-16 20:09 G 3939528.21 3939528.34 3939528.48 0.3689 0.1314

Neptune 6073-12-16 20:52 G 3939528.21 3939528.37 3939528.54 0.0088 0.0037 *

Neptune 6074-03-14 23:45 G 3939616.33 3939616.49 3939616.66 0.0088 0.0028

Neptune 6074-06-11 02:38 G 3939704.44 3939704.61 3939704.79 0.0088 0.0019

Neptune 6074-09-07 05:31 G 3939792.55 3939792.73 3939792.91 0.0088 0.0010

Jupiter 6074-09-08 21:50 G 3939794.24 3939794.41 3939794.58 0.0486 0.0074

Neptune 6074-12-04 08:24 G 3939880.67 3939880.85 3939881.03 0.0088 0.0002

Neptune 6075-03-02 11:16 G 3939968.79 3939968.97 3939969.15 0.0088 0.0007

Neptune 6075-05-29 14:09 G 3940056.92 3940057.09 3940057.27 0.0088 0.0016

Neptune 6075-08-25 17:02 G 3940145.04 3940145.21 3940145.39 0.0088 0.0025

Neptune 6075-11-21 19:55 G 3940233.17 3940233.33 3940233.50 0.0088 0.0034

Neptune 6076-02-17 22:48 G 3940321.30 3940321.45 3940321.62 0.0088 0.0043

Neptune 6076-05-16 01:40 G 3940409.44 3940409.57 3940409.73 0.0088 0.0052

Saturn 6076-08-07 13:11 G 3940493.05 3940493.05 3940493.08 0.0282 0.0281

Neptune 6076-08-12 04:33 G 3940497.58 3940497.69 3940497.84 0.0088 0.0061

Saturn 6076-11-04 08:09 G 3940581.70 3940581.84 3940581.99 0.0282 0.0144

Neptune 6076-11-08 07:26 G 3940585.72 3940585.81 3940585.94 0.0088 0.0070

Saturn 6077-02-01 03:21 G 3940670.47 3940670.64 3940670.82 0.0281 0.0009

Neptune 6077-02-04 10:33 G 3940673.88 3940673.94 3940674.03 0.0088 0.0079

Mars 6077-02-06 22:19 G 3940676.36 3940676.43 3940676.51 0.1649 0.1447

Saturn 6077-04-30 22:48 G 3940759.31 3940759.45 3940759.61 0.0280 0.0137

Neptune 6077-05-03 13:55 G 3940762.08 3940762.08 3940762.08 0.0088 0.0088

Saturn 6077-07-28 18:28 G 3940848.27 3940848.27 3940848.30 0.0280 0.0279

Venus	6077-12-17 03:50 G	3940989.56	3940989.66	3940989.77	0.3681	0.0896
Mars	6077-12-20 04:19 G	3940992.57	3940992.68	3940992.79	0.1878	0.0545
Jupiter	6080-05-15 01:11 G	3941869.47	3941869.55	3941869.63	0.0542	0.0433
Jupiter	6080-08-12 12:14 G	3941958.89	3941959.01	3941959.13	0.0542	0.0227
Venus	6083-07-02 20:52 G	3943013.28	3943013.37	3943013.46	0.3682	0.2166
Earth	6083-12-27 17:02 G	3943191.10	3943191.21	3943191.32	0.2675	0.0366
Moon	6083-12-27 17:45 G	3943191.13	3943191.24	3943191.35	0.2673	0.0248 *
Jupiter	6086-06-27 21:50 G	3944104.24	3944104.41	3944104.58	0.0486	0.0078
Mars	6087-05-12 12:14 G	3944422.92	3944423.01	3944423.09	0.1885	0.1301
Mars	6088-06-05 17:31 G	3944813.10	3944813.23	3944813.37	0.1665	0.0983
Venus	6089-01-15 13:40 G	3945037.03	3945037.07	3945037.11	0.3683	0.3410
Mars	6089-04-17 03:21 G	3945128.59	3945128.64	3945128.69	0.1858	0.1660
Saturn	6092-03-01 10:19 G	3946177.84	3946177.93	3946178.02	0.0277	0.0209
Saturn	6092-05-28 23:16 G	3946266.34	3946266.47	3946266.60	0.0278	0.0097
Jupiter	6092-05-31 15:50 G	3946269.02	3946269.16	3946269.29	0.0542	0.0076
Saturn	6092-08-25 12:00 G	3946354.86	3946355.00	3946355.14	0.0278	0.0015
Saturn	6092-11-22 00:28 G	3946443.40	3946443.52	3946443.65	0.0279	0.0125
Saturn	6093-02-18 12:43 G	3946531.97	3946532.03	3946532.11	0.0280	0.0235
Uranus	6093-03-26 20:38 G	3946568.28	3946568.36	3946568.44	0.0144	0.0128
Uranus	6093-06-23 04:04 G	3946656.54	3946656.67	3946656.80	0.0144	0.0100
Moon	6093-06-24 04:48 G	3946657.56	3946657.70	3946657.84	0.2664	0.0767
Earth	6093-06-24 05:45 G	3946657.59	3946657.74	3946657.89	0.2658	0.0602 *
Uranus	6093-09-19 11:31 G	3946744.82	3946744.98	3946745.14	0.0144	0.0072
Uranus	6093-12-16 18:57 G	3946833.12	3946833.29	3946833.47	0.0144	0.0044
Uranus	6094-03-15 02:24 G	3946921.42	3946921.60	3946921.79	0.0144	0.0016
Uranus	6094-06-11 10:04 G	3947009.74	3947009.92	3947010.10	0.0144	0.0013
Uranus	6094-09-07 17:45 G	3947098.06	3947098.24	3947098.41	0.0144	0.0042
Uranus	6094-12-05 01:11 G	3947186.39	3947186.55	3947186.72	0.0143	0.0071
Uranus	6095-03-03 08:52 G	3947274.74	3947274.87	3947275.01	0.0143	0.0100
Uranus	6095-05-30 16:33 G	3947363.12	3947363.19	3947363.28	0.0143	0.0129

Earth	6096-12-29 11:02 G	3947941.86	3947941.96	3947942.06	0.2676	0.1068
Moon	6096-12-29 11:31 G	3947941.88	3947941.98	3947942.08	0.2672	0.1084 *
Mars	6097-10-26 18:57 G	3948243.13	3948243.29	3948243.45	0.1659	0.0170
Jupiter	6098-04-15 21:35 G	3948414.25	3948414.40	3948414.55	0.0486	0.0231
Jupiter	6098-07-14 21:35 G	3948504.30	3948504.40	3948504.50	0.0487	0.0397
Mars	6098-09-07 11:45 G	3948558.90	3948558.99	3948559.09	0.1865	0.0976
Jupiter	6104-03-20 19:11 G	3950579.16	3950579.30	3950579.43	0.0542	0.0084
Saturn	6106-03-25 05:45 G	3951313.62	3951313.74	3951313.86	0.0282	0.0201
Saturn	6106-06-22 00:43 G	3951402.37	3951402.53	3951402.70	0.0281	0.0063
Moon	6106-06-28 11:02 G	3951408.87	3951408.96	3951409.05	0.2662	0.2104
Earth	6106-06-28 11:02 G	3951408.87	3951408.96	3951409.05	0.2656	0.2102 *
Saturn	6106-09-18 20:09 G	3951491.17	3951491.34	3951491.50	0.0281	0.0077
Saturn	6106-12-16 15:35 G	3951580.05	3951580.15	3951580.26	0.0280	0.0218
Mars	6107-03-19 20:38 G	3951673.21	3951673.36	3951673.51	0.1654	0.0618
Mars	6108-01-29 20:24 G	3951989.23	3951989.35	3951989.46	0.1872	0.0274
Moon	6110-01-02 04:48 G	3952692.67	3952692.70	3952692.74	0.2671	0.2512
Earth	6110-01-02 05:02 G	3952692.67	3952692.71	3952692.75	0.2678	0.2475 *
Jupiter	6110-02-02 21:50 G	3952724.30	3952724.41	3952724.51	0.0486	0.0379
Jupiter	6110-05-03 21:07 G	3952814.23	3952814.38	3952814.53	0.0487	0.0242
Jupiter	6116-01-07 21:50 G	3954889.29	3954889.41	3954889.53	0.0541	0.0250
Jupiter	6116-04-06 08:24 G	3954978.76	3954978.85	3954978.94	0.0541	0.0399
Mars	6116-08-08 23:02 G	3955103.37	3955103.46	3955103.55	0.1649	0.1358
Earth	6116-12-26 03:35 G	3955242.56	3955242.65	3955242.75	0.2673	0.1507
Moon	6116-12-26 04:19 G	3955242.59	3955242.68	3955242.77	0.2677	0.1449 *
Mars	6117-06-21 04:19 G	3955419.57	3955419.68	3955419.80	0.1878	0.0471
Venus	6117-12-09 22:04 G	3955591.35	3955591.42	3955591.50	0.3679	0.2723
Venus	6119-06-24 15:21 G	3956153.07	3956153.14	3956153.22	0.3691	0.3102
Saturn	6121-07-20 11:31 G	3956909.92	3956909.98	3956910.05	0.0278	0.0246
Saturn	6121-10-17 00:28 G	3956998.40	3956998.52	3956998.65	0.0278	0.0134
Saturn	6122-01-13 13:26 G	3957086.92	3957087.06	3957087.20	0.0279	0.0021

Jupiter	6122-02-19 20:52 G	3957124.20	3957124.37	3957124.54	0.0487	0.0086
Saturn	6122-04-12 02:09 G	3957175.45	3957175.59	3957175.72	0.0279	0.0090
Saturn	6122-07-09 14:24 G	3957264.01	3957264.10	3957264.20	0.0280	0.0200
Venus	6123-06-25 15:35 G	3957615.05	3957615.15	3957615.25	0.3680	0.1341
Venus	6125-01-07 17:45 G	3958177.11	3958177.24	3958177.38	0.3690	0.0559
Mars	6126-11-11 12:14 G	3958849.92	3958850.01	3958850.10	0.1884	0.1225
Jupiter	6127-10-27 00:14 G	3959199.43	3959199.51	3959199.60	0.0541	0.0419
Mars	6127-12-06 18:14 G	3959240.14	3959240.26	3959240.38	0.1665	0.1074
Jupiter	6128-01-24 11:16 G	3959288.85	3959288.97	3959289.09	0.0541	0.0239
Mars	6128-10-17 03:21 G	3959555.60	3959555.64	3959555.68	0.1858	0.1726
Venus	6129-01-08 08:52 G	3959638.76	3959638.87	3959638.97	0.3681	0.0139
Earth	6129-12-28 21:50 G	3959993.30	3959993.41	3959993.52	0.2675	0.0071
Moon	6129-12-28 22:33 G	3959993.33	3959993.44	3959993.55	0.2673	0.0069 *
Venus	6130-07-24 20:52 G	3960201.25	3960201.37	3960201.48	0.3689	0.2153
Jupiter	6133-12-08 20:24 G	3961434.18	3961434.35	3961434.52	0.0486	0.0070
Venus	6134-07-25 01:55 G	3961662.47	3961662.58	3961662.68	0.3681	0.1307
Saturn	6135-08-12 06:43 G	3962045.69	3962045.78	3962045.87	0.0282	0.0234
Saturn	6135-11-09 01:40 G	3962134.41	3962134.57	3962134.73	0.0282	0.0097
Saturn	6136-02-05 20:52 G	3962223.20	3962223.37	3962223.54	0.0281	0.0043
Uranus	6136-04-01 19:26 G	3962279.30	3962279.31	3962279.34	0.0134	0.0132
Saturn	6136-05-04 16:19 G	3962312.06	3962312.18	3962312.32	0.0280	0.0185
Uranus	6136-06-28 23:02 G	3962367.39	3962367.46	3962367.53	0.0134	0.0114
Uranus	6136-09-25 02:24 G	3962455.51	3962455.60	3962455.70	0.0134	0.0097
Uranus	6136-12-22 05:45 G	3962543.63	3962543.74	3962543.85	0.0134	0.0079
Uranus	6137-03-20 09:07 G	3962631.76	3962631.88	3962632.01	0.0134	0.0062
Mars	6137-04-27 19:40 G	3962670.15	3962670.32	3962670.48	0.1659	0.0264
Uranus	6137-06-16 12:28 G	3962719.89	3962720.02	3962720.15	0.0135	0.0044
Uranus	6137-09-12 15:50 G	3962808.03	3962808.16	3962808.30	0.0135	0.0027
Uranus	6137-12-09 19:11 G	3962896.16	3962896.30	3962896.44	0.0135	0.0009
Uranus	6138-03-07 22:33 G	3962984.30	3962984.44	3962984.57	0.0135	0.0009

Mars 6138-03-09 12:00 G 3962985.90 3962986.00 3962986.09 0.1865 0.1046

Uranus 6138-06-04 01:40 G 3963072.44 3963072.57 3963072.71 0.0135 0.0026

Uranus 6138-08-31 05:02 G 3963160.58 3963160.71 3963160.84 0.0135 0.0043

Uranus 6138-11-27 08:09 G 3963248.73 3963248.84 3963248.97 0.0135 0.0061

Uranus 6139-02-23 11:16 G 3963336.87 3963336.97 3963337.09 0.0135 0.0078

Uranus 6139-05-22 14:38 G 3963425.02 3963425.11 3963425.21 0.0135 0.0095

Moon 6139-06-26 11:16 G 3963459.82 3963459.97 3963460.12 0.2663 0.0126

Earth 6139-06-26 12:14 G 3963459.86 3963460.01 3963460.16 0.2657 0.0071 *

Uranus 6139-08-18 18:00 G 3963513.18 3963513.25 3963513.33 0.0135 0.0112

Jupiter 6139-11-12 14:09 G 3963598.96 3963599.09 3963599.22 0.0542 0.0074

Uranus 6139-11-14 21:07 G 3963601.35 3963601.38 3963601.42 0.0135 0.0129

Venus 6140-02-07 18:43 G 3963686.20 3963686.28 3963686.35 0.3682 0.2567

Earth 6142-12-31 15:50 G 3964744.07 3964744.16 3964744.26 0.2677 0.1367

Moon 6142-12-31 16:19 G 3964744.08 3964744.18 3964744.27 0.2671 0.1432 *

Jupiter 6145-09-26 20:38 G 3965744.21 3965744.36 3965744.51 0.0486 0.0218

Jupiter 6145-12-25 20:24 G 3965834.26 3965834.35 3965834.44 0.0486 0.0410

Mars 6146-09-17 21:21 G 3966100.24 3966100.39 3966100.54 0.1654 0.0520

Mars 6147-07-30 20:09 G 3966416.23 3966416.34 3966416.46 0.1872 0.0334

Earth 6149-12-24 14:09 G 3967294.09 3967294.09 3967294.10 0.2672 0.2665

Saturn 6151-03-06 02:24 G 3967730.49 3967730.60 3967730.72 0.0277 0.0167

Saturn 6151-06-02 15:21 G 3967819.00 3967819.14 3967819.28 0.0278 0.0056

Saturn 6151-08-30 03:50 G 3967907.53 3967907.66 3967907.80 0.0278 0.0056

Jupiter 6151-08-31 17:31 G 3967909.10 3967909.23 3967909.36 0.0542 0.0081

Saturn 6151-11-26 16:19 G 3967996.07 3967996.18 3967996.30 0.0279 0.0165

Saturn 6152-02-23 04:33 G 3968084.67 3968084.69 3968084.72 0.0279 0.0274

Earth 6152-06-28 17:31 G 3968211.21 3968211.23 3968211.24 0.2656 0.2640

Neptune 6154-10-16 13:40 G 3969051.05 3969051.07 3969051.12 0.0089 0.0087

Neptune 6155-01-12 15:50 G 3969139.09 3969139.16 3969139.22 0.0089 0.0079

Neptune 6155-04-10 17:16 G 3969227.14 3969227.22 3969227.31 0.0089 0.0071

Neptune 6155-07-07 18:43 G 3969315.20 3969315.28 3969315.39 0.0089 0.0064

Neptune 6155-10-03 20:38 G 3969403.25 3969403.36 3969403.47 0.0089 0.0056

Neptune 6155-12-30 22:04 G 3969491.31 3969491.42 3969491.55 0.0089 0.0050

Mars 6156-02-07 23:31 G 3969530.38 3969530.48 3969530.58 0.1649 0.1280

Neptune 6156-03-28 00:00 G 3969579.38 3969579.50 3969579.63 0.0089 0.0042

Neptune 6156-06-24 01:26 G 3969667.44 3969667.56 3969667.70 0.0089 0.0035

Neptune 6156-09-20 03:21 G 3969755.50 3969755.64 3969755.77 0.0089 0.0027

Neptune 6156-12-17 04:48 G 3969843.57 3969843.70 3969843.84 0.0089 0.0020

Mars 6156-12-20 04:19 G 3969846.57 3969846.68 3969846.80 0.1878 0.0401

Neptune 6157-03-15 06:28 G 3969931.63 3969931.77 3969931.91 0.0089 0.0012

Neptune 6157-06-11 08:09 G 3970019.70 3970019.84 3970019.98 0.0089 0.0005

Jupiter 6157-07-15 20:24 G 3970054.25 3970054.35 3970054.47 0.0486 0.0370

Neptune 6157-09-07 09:50 G 3970107.77 3970107.91 3970108.05 0.0089 0.0003

Jupiter 6157-10-13 19:40 G 3970144.18 3970144.32 3970144.47 0.0486 0.0251

Neptune 6157-12-04 11:16 G 3970195.84 3970195.97 3970196.12 0.0089 0.0010

Neptune 6158-03-02 12:57 G 3970283.90 3970284.04 3970284.18 0.0089 0.0017

Neptune 6158-05-29 14:24 G 3970371.97 3970372.10 3970372.24 0.0089 0.0025

Neptune 6158-08-25 16:04 G 3970460.04 3970460.17 3970460.31 0.0089 0.0032

Neptune 6158-11-21 17:45 G 3970548.11 3970548.24 3970548.37 0.0089 0.0039

Neptune 6159-02-17 18:57 G 3970636.19 3970636.29 3970636.42 0.0089 0.0047

Neptune 6159-05-16 20:38 G 3970724.26 3970724.36 3970724.48 0.0089 0.0053

Neptune 6159-08-12 22:04 G 3970812.33 3970812.42 3970812.54 0.0089 0.0061

Neptune 6159-11-08 23:45 G 3970900.41 3970900.49 3970900.59 0.0089 0.0068

Neptune 6160-02-05 01:11 G 3970988.49 3970988.55 3970988.64 0.0089 0.0075

Neptune 6160-05-03 02:52 G 3971076.57 3971076.62 3971076.68 0.0089 0.0082

Neptune 6160-07-30 04:19 G 3971164.68 3971164.68 3971164.71 0.0089 0.0089

Earth 6162-12-27 08:38 G 3972044.76 3972044.86 3972044.96 0.2674 0.1204

Moon 6162-12-27 09:21 G 3972044.78 3972044.89 3972044.99 0.2675 0.1055 *

Jupiter 6163-06-19 20:52 G 3972219.25 3972219.37 3972219.49 0.0542 0.0238

Jupiter 6163-09-17 07:26 G 3972308.73 3972308.81 3972308.90 0.0541 0.0413

Saturn 6165-03-27 22:48 G 3972866.31 3972866.45 3972866.59 0.0282 0.0156

Saturn	6165-06-24 18:00	G	3972955.08	3972955.25	3972955.42	0.0281	0.0017
Saturn	6165-09-21 13:26	G	3973043.91	3973044.06	3973044.21	0.0281	0.0123
Saturn	6165-12-19 09:07	G	3973132.83	3973132.88	3973132.94	0.0280	0.0265
Mars	6166-05-12 12:28	G	3973276.92	3973277.02	3973277.11	0.1884	0.1150
Mars	6167-06-06 18:43	G	3973667.16	3973667.28	3973667.40	0.1665	0.1159
Mars	6168-04-17 03:35	G	3973982.62	3973982.65	3973982.67	0.1858	0.1802
Pluto	6168-04-29 18:28	G	3973995.24	3973995.27	3973995.31	0.0071	0.0068
Pluto	6168-07-26 18:57	G	3974083.24	3974083.29	3974083.38	0.0071	0.0060
Pluto	6168-10-22 19:55	G	3974171.25	3974171.33	3974171.44	0.0071	0.0051
Venus	6168-12-31 02:38	G	3974240.61	3974240.61	3974240.61	0.3679	0.3674
Pluto	6169-01-18 20:38	G	3974259.26	3974259.36	3974259.49	0.0071	0.0043
Pluto	6169-04-16 21:35	G	3974347.29	3974347.40	3974347.53	0.0071	0.0033
Pluto	6169-07-13 22:19	G	3974435.31	3974435.43	3974435.57	0.0071	0.0025
Jupiter	6169-08-01 19:40	G	3974454.15	3974454.32	3974454.49	0.0486	0.0097
Pluto	6169-10-09 23:31	G	3974523.34	3974523.48	3974523.61	0.0072	0.0015
Pluto	6170-01-06 00:14	G	3974611.37	3974611.51	3974611.65	0.0072	0.0006
Pluto	6170-04-04 01:11	G	3974699.41	3974699.55	3974699.68	0.0072	0.0004
Pluto	6170-07-01 01:55	G	3974787.44	3974787.58	3974787.72	0.0072	0.0013
Pluto	6170-09-27 02:38	G	3974875.48	3974875.61	3974875.75	0.0072	0.0022
Pluto	6170-12-24 03:35	G	3974963.53	3974963.65	3974963.78	0.0072	0.0032
Pluto	6171-03-22 04:19	G	3975051.57	3975051.68	3975051.80	0.0072	0.0041
Pluto	6171-06-18 05:16	G	3975139.63	3975139.72	3975139.82	0.0072	0.0051
Pluto	6171-09-14 06:00	G	3975227.69	3975227.75	3975227.83	0.0073	0.0061
Pluto	6171-12-11 06:43	G	3975315.76	3975315.78	3975315.83	0.0073	0.0071
Moon	6172-06-23 12:14	G	3975510.93	3975511.01	3975511.09	0.2663	0.2250
Earth	6172-06-23 13:40	G	3975510.98	3975511.07	3975511.15	0.2659	0.2184 *
Venus	6174-07-16 20:09	G	3976264.26	3976264.34	3976264.43	0.3680	0.2273
Jupiter	6175-04-07 23:31	G	3976529.39	3976529.48	3976529.57	0.0541	0.0405
Jupiter	6175-07-06 10:33	G	3976618.82	3976618.94	3976619.06	0.0541	0.0252
Earth	6175-12-30 02:38	G	3976795.50	3976795.61	3976795.73	0.2675	0.0267

Moon	6175-12-30 03:21 G	3976795.53	3976795.64	3976795.76	0.2673	0.0346 *
Venus	6176-01-29 15:50 G	3976826.05	3976826.16	3976826.26	0.3691	0.2331
Mars	6176-10-26 20:09 G	3977097.18	3977097.34	3977097.50	0.1660	0.0350
Uranus	6177-04-17 04:33 G	3977269.60	3977269.69	3977269.79	0.0144	0.0119
Uranus	6177-07-14 12:00 G	3977357.86	3977358.00	3977358.14	0.0144	0.0091
Mars	6177-09-07 12:00 G	3977412.91	3977413.00	3977413.09	0.1865	0.1112
Uranus	6177-10-10 19:26 G	3977446.15	3977446.31	3977446.48	0.0144	0.0063
Uranus	6178-01-07 02:52 G	3977534.45	3977534.62	3977534.80	0.0144	0.0035
Uranus	6178-04-05 10:33 G	3977622.75	3977622.94	3977623.12	0.0144	0.0006
Uranus	6178-07-02 18:00 G	3977711.07	3977711.25	3977711.44	0.0144	0.0023
Uranus	6178-09-29 01:26 G	3977799.40	3977799.56	3977799.74	0.0144	0.0052
Uranus	6178-12-26 09:07 G	3977887.74	3977887.88	3977888.04	0.0143	0.0081
Uranus	6179-03-24 16:48 G	3977976.09	3977976.20	3977976.33	0.0143	0.0109
Uranus	6179-06-21 00:28 G	3978064.49	3978064.52	3978064.58	0.0143	0.0139
Venus	6180-01-30 13:26 G	3978287.96	3978288.06	3978288.17	0.3680	0.0913
Saturn	6180-07-23 03:21 G	3978462.55	3978462.64	3978462.74	0.0278	0.0207
Saturn	6180-10-19 16:19 G	3978551.05	3978551.18	3978551.32	0.0278	0.0094
Saturn	6181-01-16 05:02 G	3978639.57	3978639.71	3978639.85	0.0279	0.0019
Saturn	6181-04-14 17:31 G	3978728.11	3978728.23	3978728.36	0.0279	0.0128
Jupiter	6181-05-20 19:26 G	3978764.14	3978764.31	3978764.48	0.0486	0.0057
Saturn	6181-07-12 06:00 G	3978816.68	3978816.75	3978816.83	0.0280	0.0237
Venus	6181-08-14 18:14 G	3978850.12	3978850.26	3978850.40	0.3690	0.0269
Moon	6185-06-26 18:00 G	3980262.10	3980262.25	3980262.40	0.2663	0.0318
Earth	6185-06-26 18:28 G	3980262.12	3980262.27	3980262.42	0.2657	0.0477 *
Venus	6185-08-15 06:43 G	3980311.67	3980311.78	3980311.89	0.3681	0.0426
Mars	6186-03-18 21:50 G	3980527.26	3980527.41	3980527.57	0.1654	0.0435
Mars	6187-01-28 20:24 G	3980843.23	3980843.35	3980843.46	0.1872	0.0407
Venus	6187-02-28 21:35 G	3980874.31	3980874.40	3980874.48	0.3689	0.3005
Jupiter	6187-04-24 13:26 G	3980928.93	3980929.06	3980929.19	0.0541	0.0089
Earth	6188-12-31 20:52 G	3981546.28	3981546.37	3981546.45	0.2677	0.1664

Moon	6188-12-31 20:52 G	3981546.29	3981546.37	3981546.46	0.2670	0.1679 *
Venus	6191-02-28 23:45 G	3982335.39	3982335.49	3982335.58	0.3682	0.1713
Jupiter	6193-03-08 19:26 G	3983074.15	3983074.31	3983074.46	0.0486	0.0208
Jupiter	6193-06-06 19:11 G	3983164.21	3983164.30	3983164.38	0.0486	0.0420
Saturn	6194-08-14 23:16 G	3983598.36	3983598.47	3983598.60	0.0282	0.0192
Saturn	6194-11-11 18:28 G	3983687.11	3983687.27	3983687.44	0.0282	0.0054
Saturn	6195-02-08 13:55 G	3983775.92	3983776.08	3983776.24	0.0281	0.0086
Saturn	6195-05-08 09:35 G	3983864.80	3983864.90	3983865.00	0.0280	0.0228
Mars	6195-08-09 00:00 G	3983957.39	3983957.50	3983957.61	0.1649	0.1187
Earth	6195-12-25 19:11 G	3984096.25	3984096.30	3984096.35	0.2672	0.2360
Moon	6195-12-25 19:26 G	3984096.26	3984096.31	3984096.37	0.2678	0.2254 *
Mars	6196-06-20 04:33 G	3984273.57	3984273.69	3984273.80	0.1878	0.0334
Venus	6196-09-13 16:19 G	3984359.12	3984359.18	3984359.25	0.3682	0.2958
Jupiter	6199-02-10 15:50 G	3985239.03	3985239.16	3985239.30	0.0542	0.0082
Jupiter	6204-12-26 19:40 G	3987384.21	3987384.32	3987384.44	0.0486	0.0354
Jupiter	6205-03-26 18:57 G	3987474.14	3987474.29	3987474.43	0.0486	0.0266
Mars	6205-11-11 12:14 G	3987703.92	3987704.01	3987704.11	0.1885	0.1087
Mars	6206-12-06 19:26 G	3988094.20	3988094.31	3988094.42	0.1665	0.1257
Earth	6208-12-28 13:26 G	3988846.96	3988847.06	3988847.17	0.2674	0.0898
Moon	6208-12-28 14:09 G	3988846.99	3988847.09	3988847.20	0.2674	0.0856 *
Saturn	6209-12-11 05:31 G	3989194.66	3989194.73	3989194.80	0.0277	0.0238
Saturn	6210-03-09 18:28 G	3989283.14	3989283.27	3989283.40	0.0277	0.0126
Saturn	6210-06-06 07:11 G	3989371.66	3989371.80	3989371.94	0.0278	0.0015
Saturn	6210-09-02 19:40 G	3989460.19	3989460.32	3989460.46	0.0278	0.0095
Saturn	6210-11-30 08:09 G	3989548.75	3989548.84	3989548.93	0.0279	0.0204
Jupiter	6210-11-30 19:11 G	3989549.18	3989549.30	3989549.42	0.0542	0.0238
Jupiter	6211-02-28 05:45 G	3989638.66	3989638.74	3989638.83	0.0542	0.0415
Mars	6215-04-03 20:09 G	3991134.32	3991134.34	3991134.36	0.1890	0.1852
Mars	6216-04-27 20:38 G	3991524.21	3991524.36	3991524.52	0.1660	0.0443
Jupiter	6217-01-12 18:28 G	3991784.10	3991784.27	3991784.44	0.0486	0.0108

Mars 6217-03-09 12:00 G 3991839.91 3991840.00 3991840.09 0.1865 0.1182

Moon 6218-06-25 18:43 G 3992313.18 3992313.28 3992313.38 0.2663 0.1932

Earth 6218-06-25 19:55 G 3992313.21 3992313.33 3992313.45 0.2659 0.1662 *

Uranus 6220-04-23 03:07 G 3992980.59 3992980.63 3992980.68 0.0134 0.0126

Uranus 6220-07-20 06:28 G 3993068.70 3993068.77 3993068.86 0.0134 0.0109

Uranus 6220-10-16 09:50 G 3993156.82 3993156.91 3993157.02 0.0134 0.0091

Uranus 6221-01-12 13:11 G 3993244.94 3993245.05 3993245.17 0.0134 0.0074

Uranus 6221-04-10 16:48 G 3993333.07 3993333.20 3993333.32 0.0134 0.0056

Uranus 6221-07-07 19:55 G 3993421.20 3993421.33 3993421.47 0.0135 0.0039

Uranus 6221-10-03 23:16 G 3993509.34 3993509.47 3993509.61 0.0135 0.0021

Uranus 6221-12-31 02:38 G 3993597.48 3993597.61 3993597.75 0.0135 0.0004

Earth 6221-12-31 07:40 G 3993597.71 3993597.82 3993597.93 0.2675 0.0543 *

Moon 6221-12-31 08:09 G 3993597.73 3993597.84 3993597.95 0.2672 0.0660 *

Uranus 6222-03-29 06:00 G 3993685.61 3993685.75 3993685.88 0.0135 0.0014

Uranus 6222-06-25 09:07 G 3993773.75 3993773.88 3993774.02 0.0135 0.0032

Jupiter 6222-09-18 22:19 G 3993859.34 3993859.43 3993859.53 0.0542 0.0396

Uranus 6222-09-21 12:28 G 3993861.90 3993862.02 3993862.15 0.0135 0.0049

Jupiter 6222-12-17 09:35 G 3993948.78 3993948.90 3993949.01 0.0542 0.0264

Uranus 6222-12-18 15:50 G 3993950.04 3993950.16 3993950.28 0.0135 0.0066

Uranus 6223-03-16 18:57 G 3994038.19 3994038.29 3994038.40 0.0135 0.0083

Uranus 6223-06-12 22:19 G 3994126.34 3994126.43 3994126.52 0.0135 0.0101

Uranus 6223-09-09 01:11 G 3994214.50 3994214.55 3994214.63 0.0135 0.0119

Uranus 6223-12-06 04:33 G 3994302.69 3994302.69 3994302.71 0.0135 0.0135

Saturn 6224-01-02 20:52 G 3994330.29 3994330.37 3994330.44 0.0282 0.0250

Saturn 6224-03-31 15:35 G 3994419.00 3994419.15 3994419.31 0.0282 0.0113

Saturn 6224-06-28 10:48 G 3994507.79 3994507.95 3994508.13 0.0281 0.0028

Saturn 6224-09-25 06:14 G 3994596.63 3994596.76 3994596.91 0.0281 0.0168

Venus 6225-08-08 00:43 G 3994913.48 3994913.53 3994913.58 0.3679 0.3222

Mars 6225-09-17 22:19 G 3994954.28 3994954.43 3994954.59 0.1654 0.0352

Mars 6226-07-30 20:24 G 3995270.24 3995270.35 3995270.47 0.1871 0.0481

Jupiter 6228-10-31 18:14 G 3996094.09 3996094.26 3996094.44 0.0486 0.0045

Venus 6231-02-21 18:14 G 3996937.16 3996937.26 3996937.35 0.3680 0.1836

Moon 6231-06-29 00:43 G 3997064.39 3997064.53 3997064.66 0.2663 0.1054

Earth 6231-06-29 00:57 G 3997064.40 3997064.54 3997064.68 0.2657 0.0993 *

Venus 6232-09-05 16:04 G 3997499.05 3997499.17 3997499.30 0.3690 0.1548

Jupiter 6234-10-05 12:28 G 3998258.89 3998259.02 3998259.15 0.0541 0.0104

Earth 6235-01-03 01:40 G 3998348.49 3998348.57 3998348.64 0.2677 0.1958

Moon 6235-01-03 01:55 G 3998348.50 3998348.58 3998348.65 0.2670 0.1969 *

Mars 6235-02-08 00:43 G 3998384.41 3998384.53 3998384.65 0.1649 0.1102

Mars 6235-12-21 04:19 G 3998700.57 3998700.68 3998700.80 0.1878 0.0270

Venus 6236-09-06 11:16 G 3998960.87 3998960.97 3998961.08 0.3681 0.0510

Neptune 6237-04-04 02:09 G 3999170.57 3999170.59 3999170.64 0.0088 0.0086

Neptune 6237-07-01 05:16 G 3999258.64 3999258.72 3999258.80 0.0088 0.0077

Neptune 6237-09-27 07:40 G 3999346.73 3999346.82 3999346.94 0.0088 0.0069

Neptune 6237-12-24 10:48 G 3999434.82 3999434.95 3999435.08 0.0088 0.0060

Neptune 6238-03-22 13:26 G 3999522.93 3999523.06 3999523.21 0.0088 0.0052

Venus 6238-03-22 18:43 G 3999523.15 3999523.28 3999523.41 0.3689 0.1065 *

Neptune 6238-06-18 16:19 G 3999611.03 3999611.18 3999611.34 0.0088 0.0043

Neptune 6238-09-14 18:57 G 3999699.14 3999699.29 3999699.46 0.0088 0.0035

Neptune 6238-12-11 21:50 G 3999787.25 3999787.41 3999787.59 0.0088 0.0026

Neptune 6239-03-10 00:57 G 3999875.36 3999875.54 3999875.71 0.0088 0.0017

Neptune 6239-06-06 03:35 G 3999963.48 3999963.65 3999963.84 0.0088 0.0009

Saturn 6239-07-27 19:11 G 4000015.19 4000015.30 4000015.42 0.0278 0.0167

Neptune 6239-09-02 06:43 G 4000051.60 4000051.78 4000051.96 0.0088 0.0002

Saturn 6239-10-24 08:09 G 4000103.70 4000103.84 4000103.98 0.0278 0.0055

Neptune 6239-11-29 09:35 G 4000139.72 4000139.90 4000140.07 0.0088 0.0009

Saturn 6240-01-20 20:38 G 4000192.23 4000192.36 4000192.50 0.0279 0.0056

Neptune 6240-02-25 12:14 G 4000227.84 4000228.01 4000228.19 0.0088 0.0018

Saturn 6240-04-18 09:07 G 4000280.77 4000280.88 4000281.00 0.0279 0.0165

Neptune 6240-05-23 15:07 G 4000315.97 4000316.13 4000316.31 0.0088 0.0027

Saturn 6240-07-15 21:21 G 4000369.37 4000369.39 4000369.43 0.0280 0.0274

Jupiter 6240-08-19 18:14 G 4000404.10 4000404.26 4000404.42 0.0486 0.0196

Neptune 6240-08-19 18:00 G 4000404.10 4000404.25 4000404.42 0.0088 0.0036 *

Neptune 6240-11-15 20:52 G 4000492.23 4000492.37 4000492.54 0.0088 0.0045

Jupiter 6240-11-17 18:00 G 4000494.18 4000494.25 4000494.33 0.0487 0.0434

Neptune 6241-02-11 23:45 G 4000580.36 4000580.49 4000580.65 0.0088 0.0054

Neptune 6241-05-11 02:38 G 4000668.50 4000668.61 4000668.75 0.0088 0.0063

Neptune 6241-08-07 05:31 G 4000756.65 4000756.73 4000756.85 0.0088 0.0072

Neptune 6241-11-03 08:38 G 4000844.81 4000844.86 4000844.94 0.0088 0.0081

Earth 6241-12-27 00:00 G 4000898.43 4000898.50 4000898.58 0.2672 0.2054

Moon 6241-12-27 00:43 G 4000898.45 4000898.53 4000898.60 0.2677 0.2042 *

Venus 6242-03-23 04:33 G 4000984.58 4000984.69 4000984.79 0.3681 0.0833

Mars 6245-05-12 12:28 G 4002130.92 4002131.02 4002131.12 0.1884 0.1006

Mars 6246-06-06 20:09 G 4002521.25 4002521.34 4002521.43 0.1665 0.1353

Jupiter 6246-07-24 15:21 G 4002569.01 4002569.14 4002569.27 0.0541 0.0062

Venus 6247-10-06 21:21 G 4003008.30 4003008.39 4003008.48 0.3682 0.2103

Jupiter 6252-06-07 18:28 G 4004714.15 4004714.27 4004714.39 0.0486 0.0343

Jupiter 6252-09-05 17:45 G 4004804.10 4004804.24 4004804.38 0.0486 0.0278

Venus 6253-04-21 14:09 G 4005032.05 4005032.09 4005032.13 0.3683 0.3346

Saturn 6253-08-18 16:04 G 4005151.03 4005151.17 4005151.31 0.0282 0.0151

Saturn 6253-11-15 11:16 G 4005239.80 4005239.97 4005240.14 0.0281 0.0015

Pluto 6253-12-22 08:24 G 4005276.84 4005276.85 4005276.89 0.0073 0.0072

Saturn 6254-02-12 06:43 G 4005328.62 4005328.78 4005328.93 0.0281 0.0128

Pluto 6254-03-20 10:48 G 4005364.85 4005364.95 4005365.06 0.0073 0.0059

Saturn 6254-05-12 02:24 G 4005417.56 4005417.60 4005417.65 0.0280 0.0271

Pluto 6254-06-16 12:28 G 4005452.90 4005453.02 4005453.18 0.0072 0.0047

Pluto 6254-09-12 14:52 G 4005540.96 4005541.12 4005541.29 0.0072 0.0034

Mars 6254-10-02 20:09 G 4005561.30 4005561.34 4005561.37 0.1890 0.1790

Pluto 6254-12-09 16:48 G 4005629.03 4005629.20 4005629.38 0.0072 0.0021

Earth 6254-12-29 18:28 G 4005649.16 4005649.27 4005649.38 0.2674 0.0606

Moon 6254-12-29 19:11 G 4005649.19 4005649.30 4005649.41 0.2675 0.0425 *

Pluto 6255-03-07 18:57 G 4005717.11 4005717.29 4005717.48 0.0072 0.0009

Pluto 6255-06-03 20:52 G 4005805.19 4005805.37 4005805.56 0.0072 0.0004

Pluto 6255-08-30 22:48 G 4005893.28 4005893.45 4005893.64 0.0072 0.0016

Mars 6255-10-27 21:21 G 4005951.24 4005951.39 4005951.55 0.1660 0.0535

Pluto 6255-11-27 00:57 G 4005981.37 4005981.54 4005981.71 0.0072 0.0028

Pluto 6256-02-23 02:52 G 4006069.47 4006069.62 4006069.77 0.0072 0.0040

Pluto 6256-05-21 04:48 G 4006157.58 4006157.70 4006157.83 0.0071 0.0052

Pluto 6256-08-17 06:43 G 4006245.70 4006245.78 4006245.86 0.0071 0.0064

Mars 6256-09-07 12:00 G 4006266.92 4006267.00 4006267.09 0.1865 0.1251

Jupiter 6258-05-12 17:31 G 4006879.11 4006879.23 4006879.36 0.0542 0.0238

Jupiter 6258-08-10 04:19 G 4006968.60 4006968.68 4006968.77 0.0542 0.0415

Uranus 6261-02-09 05:16 G 4007882.67 4007882.72 4007882.77 0.0144 0.0138

Uranus 6261-05-08 12:28 G 4007970.91 4007971.02 4007971.15 0.0144 0.0110

Uranus 6261-08-04 19:55 G 4008059.19 4008059.33 4008059.49 0.0144 0.0082

Uranus 6261-11-01 03:35 G 4008147.48 4008147.65 4008147.82 0.0144 0.0053

Uranus 6262-01-28 11:02 G 4008235.78 4008235.96 4008236.14 0.0144 0.0025

Uranus 6262-04-26 18:28 G 4008324.09 4008324.27 4008324.46 0.0144 0.0005

Uranus 6262-07-24 02:09 G 4008412.41 4008412.59 4008412.77 0.0144 0.0033

Uranus 6262-10-20 09:35 G 4008500.74 4008500.90 4008501.08 0.0144 0.0062

Uranus 6263-01-16 17:16 G 4008589.09 4008589.22 4008589.37 0.0143 0.0090

Uranus 6263-04-15 00:57 G 4008677.45 4008677.54 4008677.65 0.0143 0.0119

Jupiter 6264-06-24 17:31 G 4009114.07 4009114.23 4009114.40 0.0486 0.0126

Moon 6264-06-26 00:57 G 4009115.41 4009115.54 4009115.67 0.2663 0.1218

Earth 6264-06-26 02:09 G 4009115.46 4009115.59 4009115.73 0.2659 0.1151 *

Mars 6265-03-18 23:02 G 4009381.30 4009381.46 4009381.62 0.1654 0.0257

Mars 6266-01-28 20:24 G 4009697.24 4009697.35 4009697.46 0.1872 0.0542

Earth 6268-01-01 12:28 G 4010399.91 4010400.02 4010400.13 0.2675 0.0839

Moon 6268-01-01 12:57 G 4010399.93 4010400.04 4010400.15 0.2671 0.0856 *

Saturn 6268-12-13 21:21 G 4010747.30 4010747.39 4010747.49 0.0277 0.0197

Saturn	6269-03-12 10:19 G	4010835.80	4010835.93	4010836.07	0.0277	0.0086	
Saturn	6269-06-08 23:02 G	4010924.32	4010924.46	4010924.60	0.0278	0.0025	
Saturn	6269-09-05 11:31 G	4011012.86	4011012.98	4011013.10	0.0278	0.0134	
Saturn	6269-12-02 23:45 G	4011101.43	4011101.49	4011101.56	0.0279	0.0242	
Jupiter	6270-02-28 20:38 G	4011189.27	4011189.36	4011189.46	0.0542	0.0398	
Jupiter	6270-05-29 07:55 G	4011278.71	4011278.83	4011278.95	0.0542	0.0264	
Mars	6274-08-09 01:11 G	4012811.42	4012811.55	4012811.67	0.1649	0.1021	
Mars	6275-06-21 04:33 G	4013127.57	4013127.69	4013127.81	0.1878	0.0182	
Jupiter	6276-04-12 17:16 G	4013424.04	4013424.22	4013424.39	0.0486	0.0034	
Moon	6277-06-29 07:11 G	4013866.68	4013866.80	4013866.93	0.2664	0.1426	
Earth	6277-06-29 07:11 G	4013866.68	4013866.80	4013866.93	0.2657	0.1528	*
Earth	6281-01-03 06:28 G	4015150.71	4015150.77	4015150.83	0.2677	0.2253	
Moon	6281-01-03 06:43 G	4015150.72	4015150.78	4015150.83	0.2670	0.2280	*
Venus	6282-03-14 22:33 G	4015586.37	4015586.44	4015586.52	0.3680	0.2777	
Jupiter	6282-03-17 11:31 G	4015588.85	4015588.98	4015589.11	0.0542	0.0113	
Saturn	6283-01-05 13:40 G	4015882.96	4015883.07	4015883.18	0.0282	0.0207	
Saturn	6283-04-04 08:38 G	4015971.69	4015971.86	4015972.02	0.0282	0.0069	
Saturn	6283-07-02 03:50 G	4016060.50	4016060.66	4016060.83	0.0281	0.0071	
Venus	6283-09-27 14:09 G	4016148.03	4016148.09	4016148.15	0.3691	0.3280	
Saturn	6283-09-28 23:31 G	4016149.37	4016149.48	4016149.59	0.0281	0.0212	
Mars	6284-11-10 12:28 G	4016557.92	4016558.02	4016558.12	0.1884	0.0935	
Mars	6285-12-05 20:38 G	4016948.28	4016948.36	4016948.44	0.1665	0.1437	
Venus	6287-09-28 16:04 G	4017610.07	4017610.17	4017610.27	0.3680	0.1408	
Earth	6287-12-28 05:02 G	4017700.63	4017700.71	4017700.79	0.2672	0.1741	
Moon	6287-12-28 05:45 G	4017700.65	4017700.74	4017700.82	0.2676	0.1615	*
Jupiter	6288-01-30 17:16 G	4017734.06	4017734.22	4017734.38	0.0486	0.0183	
Jupiter	6288-04-29 17:02 G	4017824.14	4017824.21	4017824.28	0.0486	0.0446	
Venus	6289-04-12 16:19 G	4018172.05	4018172.18	4018172.32	0.3690	0.0778	
Venus	6293-04-13 09:21 G	4019633.78	4019633.89	4019634.00	0.3681	0.0131	
Jupiter	6294-01-03 14:24 G	4019898.97	4019899.10	4019899.24	0.0542	0.0053	

Mars	6294-04-02 20:09 G	4019988.29	4019988.34	4019988.39	0.1890	0.1710	
Venus	6294-10-27 19:11 G	4020196.18	4020196.30	4020196.42	0.3689	0.1901	
Mars	6295-04-27 22:04 G	4020378.27	4020378.42	4020378.57	0.1660	0.0626	
Mars	6296-03-08 12:00 G	4020693.92	4020694.00	4020694.08	0.1865	0.1323	
Saturn	6298-05-02 22:04 G	4021479.35	4021479.42	4021479.49	0.0277	0.0239	
Saturn	6298-07-30 11:02 G	4021567.84	4021567.96	4021568.09	0.0278	0.0127	
Saturn	6298-10-27 00:00 G	4021656.35	4021656.50	4021656.64	0.0278	0.0018	
Venus	6298-10-28 02:24 G	4021657.50	4021657.60	4021657.70	0.3681	0.1240	
Saturn	6299-01-23 12:28 G	4021744.89	4021745.02	4021745.15	0.0279	0.0094	
Saturn	6299-04-22 00:57 G	4021833.45	4021833.54	4021833.63	0.0279	0.0203	
Jupiter	6299-11-18 17:16 G	4022044.10	4022044.22	4022044.34	0.0486	0.0333	
Jupiter	6300-02-16 16:33 G	4022134.05	4022134.19	4022134.33	0.0487	0.0289	
Earth	6300-12-30 23:16 G	4022451.36	4022451.47	4022451.58	0.2674	0.0293	
Moon	6300-12-31 00:00 G	4022451.39	4022451.50	4022451.61	0.2674	0.0251	*
Venus	6304-05-13 19:11 G	4023681.22	4023681.30	4023681.38	0.3682	0.2501	
Uranus	6304-05-14 10:19 G	4023681.88	4023681.93	4023682.00	0.0134	0.0121	
Uranus	6304-08-10 13:55 G	4023769.99	4023770.08	4023770.17	0.0134	0.0103	
Mars	6304-09-17 23:45 G	4023808.33	4023808.49	4023808.65	0.1654	0.0166	
Uranus	6304-11-06 17:16 G	4023858.12	4023858.22	4023858.33	0.0134	0.0086	
Uranus	6305-02-02 20:38 G	4023946.24	4023946.36	4023946.48	0.0134	0.0068	
Uranus	6305-05-02 00:00 G	4024034.38	4024034.50	4024034.63	0.0134	0.0051	
Uranus	6305-07-29 03:21 G	4024122.51	4024122.64	4024122.77	0.0134	0.0033	
Mars	6305-07-30 20:24 G	4024124.24	4024124.35	4024124.46	0.1871	0.0616	
Jupiter	6305-10-23 17:16 G	4024209.10	4024209.22	4024209.34	0.0542	0.0216	
Uranus	6305-10-25 06:43 G	4024210.64	4024210.78	4024210.92	0.0135	0.0016	
Jupiter	6306-01-21 03:50 G	4024298.59	4024298.66	4024298.74	0.0541	0.0434	
Uranus	6306-01-21 10:04 G	4024298.78	4024298.92	4024299.06	0.0135	0.0002	
Uranus	6306-04-19 13:11 G	4024386.92	4024387.05	4024387.19	0.0135	0.0020	
Uranus	6306-07-16 16:33 G	4024475.06	4024475.19	4024475.32	0.0135	0.0037	
Uranus	6306-10-12 19:55 G	4024563.21	4024563.33	4024563.45	0.0135	0.0054	

Uranus 6307-01-08 23:02 G 4024651.35 4024651.46 4024651.58 0.0135 0.0071

Uranus 6307-04-07 02:24 G 4024739.50 4024739.60 4024739.70 0.0135 0.0088

Uranus 6307-07-04 05:45 G 4024827.65 4024827.74 4024827.82 0.0135 0.0105

Uranus 6307-09-30 08:52 G 4024915.82 4024915.87 4024915.92 0.0135 0.0123

Moon 6310-06-28 07:40 G 4025917.68 4025917.82 4025917.96 0.2663 0.0801

Earth 6310-06-28 08:38 G 4025917.71 4025917.86 4025918.01 0.2658 0.0623 *

Jupiter 6311-09-07 17:31 G 4026354.21 4026354.23 4026354.27 0.0486 0.0477

Jupiter 6311-12-06 16:19 G 4026444.02 4026444.18 4026444.35 0.0486 0.0137

Saturn 6312-05-25 13:26 G 4026614.99 4026615.06 4026615.15 0.0283 0.0248

Saturn 6312-08-22 08:38 G 4026703.70 4026703.86 4026704.01 0.0282 0.0110

Saturn 6312-11-19 03:50 G 4026792.49 4026792.66 4026792.83 0.0281 0.0029

Saturn 6313-02-15 23:16 G 4026881.34 4026881.47 4026881.61 0.0281 0.0170

Earth 6314-01-02 17:16 G 4027202.12 4027202.22 4027202.32 0.2676 0.1137

Moon 6314-01-02 17:45 G 4027202.14 4027202.24 4027202.34 0.2670 0.1254 *

Mars 6314-02-08 01:40 G 4027238.44 4027238.57 4027238.71 0.1649 0.0930

Mars 6314-12-21 04:33 G 4027554.57 4027554.69 4027554.81 0.1878 0.0118

Jupiter 6317-08-11 19:11 G 4028519.21 4028519.30 4028519.39 0.0542 0.0396

Jupiter 6317-11-09 06:14 G 4028608.65 4028608.76 4028608.88 0.0542 0.0266

Neptune 6319-07-15 13:11 G 4029222.01 4029222.05 4029222.09 0.0089 0.0085

Neptune 6319-10-11 14:38 G 4029310.05 4029310.11 4029310.19 0.0089 0.0077

Neptune 6320-01-07 16:33 G 4029398.10 4029398.19 4029398.28 0.0089 0.0070

Neptune 6320-04-04 18:00 G 4029486.16 4029486.25 4029486.36 0.0089 0.0063

Neptune 6320-07-01 19:55 G 4029574.22 4029574.33 4029574.44 0.0089 0.0055

Neptune 6320-09-27 21:21 G 4029662.28 4029662.39 4029662.52 0.0089 0.0048

Neptune 6320-12-24 23:02 G 4029750.34 4029750.46 4029750.59 0.0089 0.0040

Neptune 6321-03-23 00:43 G 4029838.40 4029838.53 4029838.67 0.0089 0.0033

Neptune 6321-06-19 02:24 G 4029926.47 4029926.60 4029926.74 0.0089 0.0025

Neptune 6321-09-15 04:04 G 4030014.53 4030014.67 4030014.81 0.0089 0.0018

Neptune 6321-12-12 05:45 G 4030102.60 4030102.74 4030102.88 0.0089 0.0010

Neptune 6322-03-10 07:26 G 4030190.67 4030190.81 4030190.95 0.0089 0.0003

Neptune 6322-06-06 08:52 G 4030278.73 4030278.87 4030279.02 0.0089 0.0005

Neptune 6322-09-02 10:33 G 4030366.80 4030366.94 4030367.08 0.0089 0.0012

Neptune 6322-11-29 12:14 G 4030454.87 4030455.01 4030455.15 0.0089 0.0019

Neptune 6323-02-25 13:40 G 4030542.94 4030543.07 4030543.21 0.0089 0.0026

Neptune 6323-05-24 15:07 G 4030631.01 4030631.13 4030631.27 0.0089 0.0034

Earth 6323-07-01 13:40 G 4030668.97 4030669.07 4030669.16 0.2657 0.2056

Moon 6323-07-01 13:40 G 4030668.98 4030669.07 4030669.15 0.2664 0.2164 *

Neptune 6323-08-20 16:48 G 4030719.08 4030719.20 4030719.33 0.0089 0.0041

Jupiter 6323-09-24 16:33 G 4030754.01 4030754.19 4030754.36 0.0486 0.0018

Neptune 6323-11-16 18:28 G 4030807.16 4030807.27 4030807.39 0.0089 0.0048

Neptune 6324-02-12 19:55 G 4030895.23 4030895.33 4030895.45 0.0089 0.0055

Neptune 6324-05-10 21:35 G 4030983.30 4030983.40 4030983.50 0.0089 0.0062

Mars 6324-05-12 12:28 G 4030984.92 4030985.02 4030985.13 0.1884 0.0865

Neptune 6324-08-06 23:16 G 4031071.38 4031071.47 4031071.55 0.0089 0.0069

Neptune 6324-11-03 00:28 G 4031159.46 4031159.52 4031159.60 0.0089 0.0076

Neptune 6325-01-30 01:55 G 4031247.55 4031247.58 4031247.65 0.0089 0.0084

Mars 6325-06-06 21:21 G 4031375.33 4031375.39 4031375.45 0.1665 0.1540

Moon 6327-01-05 11:16 G 4031952.93 4031952.97 4031953.01 0.2671 0.2492

Earth 6327-01-05 11:16 G 4031952.94 4031952.97 4031953.01 0.2677 0.2549 *

Saturn 6327-09-21 00:28 G 4032211.49 4032211.52 4032211.57 0.0276 0.0267

Saturn 6327-12-18 13:40 G 4032299.95 4032300.07 4032300.19 0.0277 0.0154

Saturn 6328-03-16 02:38 G 4032388.47 4032388.61 4032388.75 0.0277 0.0044

Saturn 6328-06-12 15:07 G 4032476.99 4032477.13 4032477.27 0.0278 0.0066

Saturn 6328-09-09 03:35 G 4032565.54 4032565.65 4032565.76 0.0278 0.0175

Jupiter 6329-08-28 09:50 G 4032918.78 4032918.91 4032919.04 0.0542 0.0111

Mars 6333-10-02 20:24 G 4034415.29 4034415.35 4034415.40 0.1890 0.1635

Earth 6333-12-29 09:50 G 4034502.82 4034502.91 4034503.01 0.2673 0.1439

Moon 6333-12-29 10:33 G 4034502.85 4034502.94 4034503.04 0.2676 0.1373 *

Mars 6334-10-27 22:33 G 4034805.29 4034805.44 4034805.59 0.1660 0.0714

Jupiter 6335-07-13 16:04 G 4035064.01 4035064.17 4035064.33 0.0486 0.0171

Mars 6335-09-08 12:00 G 4035120.93 4035121.00 4035121.08 0.1865 0.1389

Jupiter 6335-10-11 15:50 G 4035154.10 4035154.16 4035154.22 0.0486 0.0457

Venus 6338-10-20 20:38 G 4036259.28 4036259.36 4036259.44 0.3680 0.2335

Venus 6340-05-04 14:24 G 4036821.00 4036821.10 4036821.20 0.3691 0.2524

Jupiter 6341-06-16 13:11 G 4037228.92 4037229.05 4037229.18 0.0542 0.0043

Saturn 6342-01-09 06:28 G 4037435.64 4037435.77 4037435.91 0.0282 0.0163

Saturn 6342-04-08 01:40 G 4037524.40 4037524.57 4037524.74 0.0282 0.0025

Saturn 6342-07-05 21:07 G 4037613.22 4037613.38 4037613.53 0.0281 0.0116

Saturn 6342-10-02 16:48 G 4037702.13 4037702.20 4037702.27 0.0281 0.0257

Mars 6344-03-19 00:00 G 4038235.34 4038235.50 4038235.67 0.1655 0.0096

Venus 6344-05-05 13:55 G 4038282.98 4038283.08 4038283.19 0.3680 0.0977

Mars 6345-01-28 20:38 G 4038551.25 4038551.36 4038551.46 0.1871 0.0691

Uranus 6345-03-02 12:57 G 4038583.97 4038584.04 4038584.13 0.0144 0.0129

Uranus 6345-05-29 20:24 G 4038672.23 4038672.35 4038672.49 0.0144 0.0101

Uranus 6345-08-26 03:50 G 4038760.51 4038760.66 4038760.83 0.0144 0.0073

Venus 6345-11-18 16:48 G 4038845.06 4038845.20 4038845.34 0.3690 0.0037

Uranus 6345-11-22 11:31 G 4038848.81 4038848.98 4038849.15 0.0144 0.0044

Uranus 6346-02-18 18:57 G 4038937.11 4038937.29 4038937.48 0.0144 0.0016

Uranus 6346-05-18 02:38 G 4039025.42 4039025.61 4039025.79 0.0144 0.0013

Uranus 6346-08-14 10:04 G 4039113.75 4039113.92 4039114.10 0.0144 0.0042

Uranus 6346-11-10 17:45 G 4039202.08 4039202.24 4039202.40 0.0144 0.0071

Earth 6347-01-01 04:04 G 4039253.56 4039253.67 4039253.79 0.2674 0.0063

Moon 6347-01-01 04:48 G 4039253.59 4039253.70 4039253.81 0.2673 0.0165 *

Uranus 6347-02-07 01:26 G 4039290.43 4039290.56 4039290.70 0.0143 0.0100

Jupiter 6347-05-01 16:04 G 4039374.05 4039374.17 4039374.30 0.0486 0.0321

Uranus 6347-05-06 09:07 G 4039378.81 4039378.88 4039378.96 0.0143 0.0129

Jupiter 6347-07-30 15:21 G 4039464.01 4039464.14 4039464.28 0.0486 0.0300

Venus 6349-11-19 07:11 G 4040306.69 4040306.80 4040306.91 0.3681 0.0355

Venus 6351-06-04 19:55 G 4040869.24 4040869.33 4040869.43 0.3689 0.2750

Jupiter 6353-04-04 16:04 G 4041539.05 4041539.17 4041539.30 0.0542 0.0206

Jupiter	6353-07-03 02:52 G	4041628.55	4041628.62	4041628.69	0.0541	0.0445
Mars	6353-08-09 02:24 G	4041665.46	4041665.60	4041665.74	0.1650	0.0838
Mars	6354-06-21 04:33 G	4041981.57	4041981.69	4041981.81	0.1878	0.0049
Venus	6355-06-05 00:14 G	4042330.41	4042330.51	4042330.60	0.3682	0.1646
Moon	6356-06-28 14:09 G	4042719.94	4042720.09	4042720.24	0.2665	0.0169
Earth	6356-06-28 14:52 G	4042719.97	4042720.12	4042720.27	0.2658	0.0103 *
Saturn	6357-05-06 14:09 G	4043032.00	4043032.09	4043032.20	0.0277	0.0197
Saturn	6357-08-03 03:07 G	4043120.50	4043120.63	4043120.77	0.0278	0.0086
Saturn	6357-10-30 15:50 G	4043209.02	4043209.16	4043209.30	0.0278	0.0025
Saturn	6358-01-27 04:19 G	4043297.56	4043297.68	4043297.81	0.0279	0.0135
Saturn	6358-04-25 16:48 G	4043386.13	4043386.20	4043386.27	0.0279	0.0243
Jupiter	6359-02-17 16:19 G	4043684.14	4043684.18	4043684.22	0.0486	0.0469
Jupiter	6359-05-18 15:07 G	4043773.96	4043774.13	4043774.29	0.0486	0.0145
Earth	6360-01-03 22:19 G	4044004.33	4044004.43	4044004.52	0.2676	0.1441
Moon	6360-01-03 22:33 G	4044004.35	4044004.44	4044004.54	0.2670	0.1431 *
Venus	6360-12-18 17:02 G	4044354.15	4044354.21	4044354.27	0.3682	0.2896
Mars	6362-12-30 04:48 G	4045095.66	4045095.70	4045095.74	0.1645	0.1580
Mars	6363-11-11 12:43 G	4045411.92	4045412.03	4045412.13	0.1884	0.0794
Mars	6364-12-05 22:04 G	4045802.39	4045802.42	4045802.44	0.1666	0.1633
Jupiter	6365-01-21 18:43 G	4045849.19	4045849.28	4045849.38	0.0542	0.0374
Jupiter	6365-04-21 05:45 G	4045938.63	4045938.74	4045938.86	0.0541	0.0285
Earth	6366-12-27 20:38 G	4046554.33	4046554.36	4046554.38	0.2671	0.2600
Moon	6366-12-27 20:52 G	4046554.34	4046554.37	4046554.40	0.2677	0.2538 *
Moon	6369-07-01 20:09 G	4047471.30	4047471.34	4047471.38	0.2663	0.2546
Earth	6369-07-01 20:09 G	4047471.31	4047471.34	4047471.36	0.2656	0.2602 *
Jupiter	6371-03-06 15:07 G	4048083.96	4048084.13	4048084.30	0.0486	0.0005
Saturn	6371-05-29 06:28 G	4048167.66	4048167.77	4048167.89	0.0282	0.0204
Saturn	6371-08-26 01:26 G	4048256.40	4048256.56	4048256.73	0.0282	0.0066
Saturn	6371-11-22 20:52 G	4048345.21	4048345.37	4048345.54	0.0281	0.0074
Saturn	6372-02-19 16:19 G	4048434.08	4048434.18	4048434.30	0.0281	0.0216

Mars 6373-04-02 20:09 G 4048842.28 4048842.34 4048842.41 0.1890 0.1569

Mars 6374-04-27 23:16 G 4049232.32 4049232.47 4049232.61 0.1660 0.0808

Mars 6375-03-09 12:14 G 4049547.94 4049548.01 4049548.08 0.1864 0.1461

Jupiter 6377-02-07 08:09 G 4050248.71 4050248.84 4050248.97 0.0542 0.0110

Earth 6379-12-30 14:52 G 4051305.02 4051305.12 4051305.22 0.2673 0.1132

Moon 6379-12-30 15:35 G 4051305.04 4051305.15 4051305.25 0.2676 0.1015 *

Jupiter 6382-12-23 15:07 G 4052393.97 4052394.13 4052394.30 0.0486 0.0156

Jupiter 6383-03-23 14:52 G 4052484.09 4052484.12 4052484.16 0.0486 0.0474

Mars 6383-09-18 00:57 G 4052662.38 4052662.54 4052662.70 0.1655 0.0024

Mars 6384-07-29 20:24 G 4052978.25 4052978.35 4052978.46 0.1871 0.0754

Saturn 6386-09-23 17:02 G 4053764.13 4053764.21 4053764.30 0.0277 0.0222

Saturn 6386-12-21 06:00 G 4053852.62 4053852.75 4053852.88 0.0277 0.0110

Saturn 6387-03-19 18:43 G 4053941.14 4053941.28 4053941.43 0.0278 0.0009

Saturn 6387-06-16 07:26 G 4054029.68 4054029.81 4054029.94 0.0278 0.0109

Saturn 6387-09-12 19:40 G 4054118.24 4054118.32 4054118.41 0.0279 0.0217

Uranus 6388-03-07 14:38 G 4054295.09 4054295.11 4054295.13 0.0134 0.0132

Uranus 6388-06-03 17:45 G 4054383.19 4054383.24 4054383.33 0.0134 0.0115

Uranus 6388-08-30 21:21 G 4054471.30 4054471.39 4054471.49 0.0134 0.0097

Jupiter 6388-11-26 11:16 G 4054558.84 4054558.97 4054559.10 0.0542 0.0049

Uranus 6388-11-27 00:57 G 4054559.43 4054559.54 4054559.65 0.0134 0.0079

Uranus 6389-02-23 04:04 G 4054647.56 4054647.67 4054647.80 0.0134 0.0062

Uranus 6389-05-22 07:40 G 4054735.69 4054735.82 4054735.95 0.0134 0.0044

Moon 6389-06-26 15:07 G 4054771.07 4054771.13 4054771.19 0.2663 0.2422

Earth 6389-06-26 16:19 G 4054771.10 4054771.18 4054771.27 0.2660 0.2207 *

Uranus 6389-08-18 11:02 G 4054823.82 4054823.96 4054824.09 0.0134 0.0027

Venus 6389-11-11 01:11 G 4054908.50 4054908.55 4054908.59 0.3679 0.3286

Uranus 6389-11-14 14:24 G 4054911.96 4054912.10 4054912.23 0.0134 0.0010

Uranus 6390-02-10 17:31 G 4055000.10 4055000.23 4055000.37 0.0135 0.0009

Uranus 6390-05-09 20:52 G 4055088.24 4055088.37 4055088.51 0.0135 0.0025

Uranus 6390-08-06 00:14 G 4055176.38 4055176.51 4055176.64 0.0135 0.0043

Uranus 6390-11-02 03:21 G 4055264.52 4055264.64 4055264.77 0.0135 0.0060

Uranus 6391-01-29 06:43 G 4055352.67 4055352.78 4055352.89 0.0135 0.0077

Uranus 6391-04-27 09:50 G 4055440.82 4055440.91 4055441.01 0.0135 0.0094

Uranus 6391-07-24 13:11 G 4055528.98 4055529.05 4055529.13 0.0135 0.0111

Uranus 6391-10-20 16:19 G 4055617.15 4055617.18 4055617.23 0.0135 0.0128

Earth 6393-01-01 09:07 G 4056055.76 4056055.88 4056055.99 0.2674 0.0328

Moon 6393-01-01 09:35 G 4056055.79 4056055.90 4056056.01 0.2671 0.0370 *

Mars 6393-02-07 02:52 G 4056092.47 4056092.62 4056092.76 0.1649 0.0762

Mars 6393-12-20 04:48 G 4056408.58 4056408.70 4056408.81 0.1878 0.0081

Jupiter 6394-10-11 14:52 G 4056703.99 4056704.12 4056704.25 0.0486 0.0310

Jupiter 6395-01-09 14:09 G 4056793.95 4056794.09 4056794.22 0.0486 0.0310

Venus 6395-05-27 18:28 G 4056932.18 4056932.27 4056932.37 0.3680 0.1901

Venus 6396-12-09 14:38 G 4057493.99 4057494.11 4057494.23 0.3690 0.1757

Jupiter 6400-09-14 14:38 G 4058868.99 4058869.11 4058869.24 0.0542 0.0204

Saturn 6400-10-15 05:02 G 4058899.65 4058899.71 4058899.79 0.0283 0.0252

Venus 6400-12-10 12:00 G 4058955.89 4058956.00 4058956.10 0.3681 0.0562

Jupiter 6400-12-13 01:26 G 4058958.49 4058958.56 4058958.63 0.0542 0.0449

Saturn 6401-01-12 00:00 G 4058988.35 4058988.50 4058988.66 0.0282 0.0115

Saturn 6401-04-10 19:11 G 4059077.13 4059077.30 4059077.47 0.0282 0.0024

Saturn 6401-07-08 14:38 G 4059165.97 4059166.11 4059166.25 0.0281 0.0164

Neptune 6401-12-31 00:28 G 4059341.48 4059341.52 4059341.58 0.0088 0.0084

Neptune 6402-03-29 03:07 G 4059429.56 4059429.63 4059429.73 0.0088 0.0076

Neptune 6402-06-25 06:00 G 4059517.65 4059517.75 4059517.87 0.0088 0.0067

Venus 6402-06-25 17:16 G 4059518.09 4059518.22 4059518.36 0.3689 0.0845

Moon 6402-06-29 20:38 G 4059522.21 4059522.36 4059522.51 0.2665 0.0353

Earth 6402-06-29 21:07 G 4059522.23 4059522.38 4059522.53 0.2658 0.0426 *

Mars 6402-06-30 05:16 G 4059522.66 4059522.72 4059522.79 0.1645 0.1496

Neptune 6402-09-21 08:38 G 4059605.74 4059605.86 4059606.00 0.0088 0.0059

Neptune 6402-12-18 11:31 G 4059693.84 4059693.98 4059694.13 0.0088 0.0050

Neptune 6403-03-16 14:09 G 4059781.95 4059782.09 4059782.26 0.0088 0.0042

Mars 6403-05-12 12:43 G 4059838.92 4059839.03 4059839.14 0.1884 0.0716

Neptune 6403-06-12 17:02 G 4059870.06 4059870.21 4059870.38 0.0088 0.0033

Neptune 6403-09-08 20:09 G 4059958.17 4059958.34 4059958.51 0.0088 0.0024

Neptune 6403-12-05 22:48 G 4060046.28 4060046.45 4060046.63 0.0088 0.0016

Neptune 6404-03-03 01:40 G 4060134.40 4060134.57 4060134.75 0.0088 0.0007

Neptune 6404-05-30 04:33 G 4060222.51 4060222.69 4060222.87 0.0088 0.0002

Neptune 6404-08-26 07:26 G 4060310.64 4060310.81 4060310.99 0.0088 0.0011

Neptune 6404-11-22 10:19 G 4060398.76 4060398.93 4060399.11 0.0088 0.0020

Neptune 6405-02-18 12:57 G 4060486.88 4060487.04 4060487.22 0.0088 0.0029

Neptune 6405-05-17 16:04 G 4060575.01 4060575.17 4060575.34 0.0088 0.0037

Neptune 6405-08-13 18:57 G 4060663.14 4060663.29 4060663.45 0.0088 0.0046

Neptune 6405-11-09 21:50 G 4060751.28 4060751.41 4060751.56 0.0088 0.0055

Earth 6406-01-04 03:07 G 4060806.55 4060806.63 4060806.71 0.2676 0.1735

Moon 6406-01-04 03:21 G 4060806.56 4060806.64 4060806.72 0.2670 0.1834 *

Neptune 6406-02-06 00:43 G 4060839.42 4060839.53 4060839.66 0.0088 0.0064

Neptune 6406-05-05 03:50 G 4060927.57 4060927.66 4060927.76 0.0088 0.0073

Venus 6406-06-26 05:02 G 4060979.60 4060979.71 4060979.82 0.3681 0.0771

Jupiter 6406-07-30 15:07 G 4061014.08 4061014.13 4061014.19 0.0486 0.0458

Neptune 6406-08-01 06:43 G 4061015.73 4061015.78 4061015.85 0.0088 0.0082

Jupiter 6406-10-28 13:40 G 4061103.91 4061104.07 4061104.24 0.0486 0.0155

Venus 6408-01-09 20:38 G 4061542.34 4061542.36 4061542.39 0.3688 0.3605

Venus 6412-01-09 22:04 G 4063003.33 4063003.42 4063003.51 0.3682 0.2050

Jupiter 6412-07-03 17:31 G 4063179.14 4063179.23 4063179.33 0.0542 0.0367

Jupiter 6412-10-01 04:48 G 4063268.59 4063268.70 4063268.81 0.0541 0.0293

Mars 6412-10-01 20:24 G 4063269.28 4063269.35 4063269.42 0.1890 0.1494

Earth 6412-12-28 01:26 G 4063356.50 4063356.56 4063356.62 0.2671 0.2288

Moon 6412-12-28 01:55 G 4063356.52 4063356.58 4063356.64 0.2677 0.2269 *

Mars 6413-10-26 23:45 G 4063659.36 4063659.49 4063659.63 0.1660 0.0902

Mars 6414-09-07 12:14 G 4063974.94 4063975.01 4063975.07 0.1864 0.1528

Saturn 6416-02-10 17:45 G 4064496.20 4064496.24 4064496.28 0.0277 0.0263

Saturn	6416-05-09 06:43 G	4064584.67	4064584.78	4064584.90	0.0277	0.0152
Saturn	6416-08-05 19:40 G	4064673.18	4064673.32	4064673.46	0.0278	0.0041
Saturn	6416-11-02 08:24 G	4064761.71	4064761.85	4064761.98	0.0278	0.0070
Pluto	6416-11-20 01:55 G	4064779.54	4064779.58	4064779.65	0.0071	0.0064
Saturn	6417-01-29 20:52 G	4064850.26	4064850.37	4064850.47	0.0279	0.0178
Pluto	6417-02-16 02:52 G	4064867.54	4064867.62	4064867.71	0.0071	0.0055
Pluto	6417-05-15 03:50 G	4064955.56	4064955.66	4064955.76	0.0071	0.0046
Venus	6417-07-25 14:52 G	4065027.07	4065027.12	4065027.16	0.3683	0.3291
Pluto	6417-08-11 04:33 G	4065043.58	4065043.69	4065043.81	0.0071	0.0038
Pluto	6417-11-07 05:16 G	4065131.60	4065131.72	4065131.85	0.0071	0.0029
Pluto	6418-02-03 06:14 G	4065219.63	4065219.76	4065219.89	0.0072	0.0020
Pluto	6418-05-02 06:57 G	4065307.66	4065307.79	4065307.93	0.0072	0.0011
Pluto	6418-07-29 07:55 G	4065395.69	4065395.83	4065395.97	0.0072	0.0002
Jupiter	6418-08-16 13:40 G	4065413.89	4065414.07	4065414.24	0.0486	0.0013
Pluto	6418-10-25 08:38 G	4065483.72	4065483.86	4065484.00	0.0072	0.0008
Pluto	6419-01-21 09:35 G	4065571.76	4065571.90	4065572.03	0.0072	0.0017
Pluto	6419-04-19 10:04 G	4065659.80	4065659.92	4065660.06	0.0072	0.0028
Pluto	6419-07-16 11:02 G	4065747.85	4065747.96	4065748.09	0.0072	0.0036
Pluto	6419-10-12 11:45 G	4065835.90	4065835.99	4065836.11	0.0072	0.0046
Pluto	6420-01-08 12:43 G	4065923.95	4065924.03	4065924.13	0.0073	0.0056
Pluto	6420-04-05 13:26 G	4066012.02	4066012.06	4066012.13	0.0073	0.0066
Mars	6423-03-19 01:26 G	4067089.40	4067089.56	4067089.72	0.1655	0.0101
Mars	6424-01-28 20:38 G	4067405.25	4067405.36	4067405.46	0.1871	0.0829
Jupiter	6424-04-21 20:09 G	4067489.33	4067489.34	4067489.35	0.0542	0.0537
Jupiter	6424-07-20 07:40 G	4067578.69	4067578.82	4067578.95	0.0542	0.0130
Earth	6425-12-30 19:40 G	4068107.22	4068107.32	4068107.43	0.2673	0.0830
Moon	6425-12-30 20:24 G	4068107.24	4068107.35	4068107.46	0.2675	0.0731 *
Uranus	6429-03-22 20:52 G	4069285.28	4069285.37	4069285.48	0.0144	0.0120
Uranus	6429-06-19 04:19 G	4069373.55	4069373.68	4069373.82	0.0144	0.0092
Uranus	6429-09-15 11:45 G	4069461.83	4069461.99	4069462.16	0.0144	0.0064

Uranus	6429-12-12 19:26 G	4069550.13	4069550.31	4069550.48	0.0144	0.0035	
Uranus	6430-03-11 02:52 G	4069638.44	4069638.62	4069638.80	0.0144	0.0007	
Saturn	6430-06-01 00:00 G	4069720.36	4069720.50	4069720.64	0.0282	0.0156	
Jupiter	6430-06-04 13:40 G	4069723.91	4069724.07	4069724.24	0.0486	0.0148	
Uranus	6430-06-07 10:33 G	4069726.75	4069726.94	4069727.12	0.0144	0.0022	
Saturn	6430-08-28 18:57 G	4069809.12	4069809.29	4069809.46	0.0282	0.0019	
Jupiter	6430-09-02 13:26 G	4069814.04	4069814.06	4069814.08	0.0486	0.0482	
Uranus	6430-09-03 18:00 G	4069815.08	4069815.25	4069815.42	0.0144	0.0051	
Saturn	6430-11-25 14:24 G	4069897.95	4069898.10	4069898.26	0.0281	0.0122	
Uranus	6430-12-01 01:40 G	4069903.42	4069903.57	4069903.72	0.0144	0.0080	
Saturn	6431-02-22 10:04 G	4069986.87	4069986.92	4069986.98	0.0281	0.0264	
Uranus	6431-02-27 09:21 G	4069991.77	4069991.89	4069992.01	0.0143	0.0109	
Uranus	6431-05-26 17:02 G	4070080.17	4070080.21	4070080.26	0.0143	0.0138	
Mars	6432-08-08 03:35 G	4070519.50	4070519.65	4070519.79	0.1650	0.0666	
Mars	6433-06-20 04:48 G	4070835.58	4070835.70	4070835.81	0.1877	0.0119	
Moon	6435-06-27 21:35 G	4071573.29	4071573.40	4071573.51	0.2664	0.1766	
Earth	6435-06-27 22:48 G	4071573.33	4071573.45	4071573.56	0.2660	0.1691	*
Jupiter	6436-05-08 09:35 G	4071888.77	4071888.90	4071889.04	0.0542	0.0051	
Earth	6439-01-02 13:55 G	4072857.97	4072858.08	4072858.19	0.2675	0.0611	
Moon	6439-01-02 14:38 G	4072858.00	4072858.11	4072858.21	0.2670	0.0735	*
Mars	6441-12-29 05:45 G	4073949.66	4073949.74	4073949.82	0.1645	0.1411	
Jupiter	6442-03-23 13:55 G	4074033.95	4074034.08	4074034.22	0.0486	0.0296	
Jupiter	6442-06-21 13:11 G	4074123.92	4074124.05	4074124.18	0.0486	0.0325	
Mars	6442-11-10 12:43 G	4074265.92	4074266.03	4074266.14	0.1884	0.0654	
Saturn	6445-09-26 09:50 G	4075316.80	4075316.91	4075317.02	0.0277	0.0174	
Saturn	6445-12-23 22:48 G	4075405.31	4075405.45	4075405.59	0.0277	0.0063	
Saturn	6446-03-22 11:31 G	4075493.84	4075493.98	4075494.12	0.0278	0.0047	
Venus	6446-06-17 23:02 G	4075581.39	4075581.46	4075581.53	0.3679	0.2836	
Saturn	6446-06-19 00:00 G	4075582.38	4075582.50	4075582.61	0.0278	0.0155	
Saturn	6446-09-15 12:14 G	4075670.97	4075671.01	4075671.06	0.0279	0.0262	

Venus	6447-12-31 12:57 G	4076143.00	4076143.04	4076143.09	0.3691	0.3453
Jupiter	6448-02-25 12:43 G	4076198.90	4076199.03	4076199.15	0.0542	0.0213
Jupiter	6448-05-24 23:31 G	4076288.40	4076288.48	4076288.55	0.0542	0.0441
Moon	6448-06-30 03:07 G	4076324.49	4076324.63	4076324.77	0.2665	0.0877
Earth	6448-06-30 03:35 G	4076324.51	4076324.65	4076324.79	0.2658	0.0953 *
Venus	6452-01-01 16:33 G	4077605.09	4077605.19	4077605.29	0.3680	0.1460
Earth	6452-01-05 07:55 G	4077608.76	4077608.83	4077608.90	0.2676	0.2036
Moon	6452-01-05 08:09 G	4077608.77	4077608.84	4077608.91	0.2670	0.2001 *
Mars	6452-04-01 20:38 G	4077696.28	4077696.36	4077696.43	0.1890	0.1411
Mars	6453-04-27 00:28 G	4078086.39	4078086.52	4078086.65	0.1660	0.0991
Venus	6453-07-16 15:07 G	4078167.00	4078167.13	4078167.26	0.3690	0.0973
Jupiter	6454-01-09 13:40 G	4078344.01	4078344.07	4078344.13	0.0486	0.0450
Mars	6454-03-08 12:14 G	4078401.95	4078402.01	4078402.07	0.1865	0.1599
Jupiter	6454-04-09 12:14 G	4078433.85	4078434.01	4078434.18	0.0486	0.0162
Venus	6457-07-17 09:50 G	4079628.80	4079628.91	4079629.02	0.3681	0.0120
Earth	6458-12-29 06:28 G	4080158.69	4080158.77	4080158.84	0.2671	0.1981
Moon	6458-12-29 06:57 G	4080158.71	4080158.79	4080158.87	0.2677	0.1859 *
Venus	6459-01-30 18:00 G	4080191.12	4080191.25	4080191.37	0.3689	0.1673
Saturn	6459-10-18 23:16 G	4080452.36	4080452.47	4080452.59	0.0283	0.0199
Jupiter	6459-12-14 15:50 G	4080509.06	4080509.16	4080509.26	0.0542	0.0370
Saturn	6460-01-15 18:14 G	4080541.10	4080541.26	4080541.43	0.0282	0.0062
Jupiter	6460-03-13 03:07 G	4080598.52	4080598.63	4080598.74	0.0542	0.0292
Saturn	6460-04-13 13:26 G	4080629.90	4080630.06	4080630.23	0.0281	0.0078
Saturn	6460-07-11 09:07 G	4080718.77	4080718.88	4080718.99	0.0281	0.0218
Mars	6462-09-17 01:55 G	4081516.42	4081516.58	4081516.74	0.1655	0.0189
Venus	6463-01-31 02:52 G	4081652.52	4081652.62	4081652.73	0.3682	0.1186
Mars	6463-07-29 20:38 G	4081832.26	4081832.36	4081832.46	0.1871	0.0901
Jupiter	6466-01-26 12:00 G	4082743.83	4082744.00	4082744.18	0.0486	0.0015
Venus	6468-08-15 19:55 G	4083676.25	4083676.33	4083676.41	0.3682	0.2448
Jupiter	6471-10-02 18:43 G	4084819.26	4084819.28	4084819.30	0.0542	0.0533

Jupiter 6471-12-31 06:14 G 4084908.63 4084908.76 4084908.89 0.0542 0.0134

Earth 6472-01-01 00:43 G 4084909.42 4084909.53 4084909.64 0.2673 0.0533

Moon 6472-01-01 01:26 G 4084909.44 4084909.56 4084909.67 0.2673 0.0458 *

Mars 6472-02-07 04:04 G 4084946.52 4084946.67 4084946.82 0.1650 0.0579

Uranus 6472-03-27 22:19 G 4084996.38 4084996.43 4084996.47 0.0134 0.0126

Uranus 6472-06-24 01:26 G 4085084.49 4085084.56 4085084.65 0.0134 0.0109

Uranus 6472-09-20 05:02 G 4085172.61 4085172.71 4085172.81 0.0134 0.0091

Uranus 6472-12-17 08:09 G 4085260.74 4085260.84 4085260.97 0.0134 0.0074

Mars 6472-12-19 04:33 G 4085262.58 4085262.69 4085262.81 0.1877 0.0183

Uranus 6473-03-15 11:45 G 4085348.87 4085348.99 4085349.12 0.0134 0.0056

Uranus 6473-06-11 15:07 G 4085437.00 4085437.13 4085437.26 0.0134 0.0039

Uranus 6473-09-07 18:28 G 4085525.14 4085525.27 4085525.41 0.0134 0.0021

Uranus 6473-12-04 21:50 G 4085613.27 4085613.41 4085613.55 0.0134 0.0004

Venus 6474-03-01 12:43 G 4085700.03 4085700.03 4085700.03 0.3683 0.3680

Uranus 6474-03-03 01:11 G 4085701.41 4085701.55 4085701.68 0.0135 0.0014

Uranus 6474-05-30 04:19 G 4085789.55 4085789.68 4085789.82 0.0135 0.0031

Uranus 6474-08-26 07:40 G 4085877.69 4085877.82 4085877.95 0.0135 0.0048

Uranus 6474-11-22 11:02 G 4085965.84 4085965.96 4085966.08 0.0135 0.0065

Saturn 6475-02-13 10:48 G 4086048.86 4086048.95 4086049.04 0.0277 0.0215

Uranus 6475-02-18 14:09 G 4086053.99 4086054.09 4086054.20 0.0135 0.0082

Saturn 6475-05-12 23:45 G 4086137.36 4086137.49 4086137.62 0.0277 0.0104

Uranus 6475-05-17 17:31 G 4086142.14 4086142.23 4086142.32 0.0135 0.0099

Saturn 6475-08-09 12:28 G 4086225.88 4086226.02 4086226.16 0.0278 0.0007

Uranus 6475-08-13 20:38 G 4086230.30 4086230.36 4086230.43 0.0135 0.0116

Saturn 6475-11-06 00:57 G 4086314.42 4086314.54 4086314.67 0.0279 0.0116

Uranus 6475-11-10 00:00 G 4086318.48 4086318.50 4086318.51 0.0135 0.0133

Saturn 6476-02-02 13:26 G 4086402.98 4086403.06 4086403.14 0.0279 0.0224

Jupiter 6477-11-14 12:00 G 4087053.83 4087054.00 4087054.16 0.0486 0.0146

Jupiter 6478-02-12 11:31 G 4087143.97 4087143.98 4087144.00 0.0486 0.0484

Moon 6481-06-28 04:04 G 4088375.55 4088375.67 4088375.80 0.2665 0.1390

Earth 6481-06-28 05:02 G 4088375.58 4088375.71 4088375.85 0.2660 0.1166 *

Mars 6481-06-29 06:28 G 4088376.68 4088376.77 4088376.86 0.1645 0.1322

Mars 6482-05-11 12:43 G 4088692.92 4088693.03 4088693.15 0.1884 0.0574

Jupiter 6483-10-19 09:07 G 4089218.74 4089218.88 4089219.01 0.0542 0.0032

Neptune 6484-04-10 12:00 G 4089392.96 4089393.00 4089393.05 0.0089 0.0084

Neptune 6484-07-07 13:40 G 4089481.00 4089481.07 4089481.15 0.0089 0.0076

Neptune 6484-10-03 15:21 G 4089569.06 4089569.14 4089569.24 0.0089 0.0069

Neptune 6484-12-30 17:02 G 4089657.12 4089657.21 4089657.32 0.0089 0.0061

Earth 6485-01-02 18:43 G 4089660.18 4089660.28 4089660.39 0.2675 0.0912

Moon 6485-01-02 19:26 G 4089660.20 4089660.31 4089660.41 0.2671 0.0980 *

Neptune 6485-03-28 18:57 G 4089745.18 4089745.29 4089745.40 0.0089 0.0054

Neptune 6485-06-24 20:24 G 4089833.24 4089833.35 4089833.48 0.0089 0.0046

Neptune 6485-09-20 22:19 G 4089921.30 4089921.43 4089921.56 0.0089 0.0039

Neptune 6485-12-17 23:45 G 4090009.36 4090009.49 4090009.63 0.0089 0.0032

Neptune 6486-03-16 01:26 G 4090097.43 4090097.56 4090097.70 0.0089 0.0024

Neptune 6486-06-12 03:07 G 4090185.49 4090185.63 4090185.77 0.0089 0.0017

Neptune 6486-09-08 04:48 G 4090273.56 4090273.70 4090273.84 0.0089 0.0009

Neptune 6486-12-05 06:28 G 4090361.63 4090361.77 4090361.91 0.0089 0.0002

Neptune 6487-03-03 08:09 G 4090449.70 4090449.84 4090449.98 0.0089 0.0006

Neptune 6487-05-30 09:35 G 4090537.77 4090537.90 4090538.04 0.0089 0.0013

Neptune 6487-08-26 11:16 G 4090625.83 4090625.97 4090626.11 0.0089 0.0020

Neptune 6487-11-22 12:43 G 4090713.90 4090714.03 4090714.17 0.0089 0.0028

Neptune 6488-02-18 14:24 G 4090801.98 4090802.10 4090802.23 0.0089 0.0035

Neptune 6488-05-16 16:04 G 4090890.05 4090890.17 4090890.29 0.0089 0.0042

Neptune 6488-08-12 17:45 G 4090978.12 4090978.24 4090978.35 0.0089 0.0049

Neptune 6488-11-08 18:57 G 4091066.19 4091066.29 4091066.41 0.0089 0.0056

Neptune 6489-02-04 20:38 G 4091154.27 4091154.36 4091154.46 0.0089 0.0063

Saturn 6489-03-06 23:16 G 4091184.39 4091184.47 4091184.56 0.0282 0.0239

Neptune 6489-05-03 22:04 G 4091242.35 4091242.42 4091242.52 0.0089 0.0071

Saturn 6489-06-03 18:14 G 4091273.10 4091273.26 4091273.41 0.0282 0.0103

Neptune 6489-07-30 23:45 G 4091330.43 4091330.49 4091330.56 0.0089 0.0077

Saturn 6489-08-31 13:11 G 4091361.89 4091362.05 4091362.22 0.0281 0.0036

Jupiter 6489-09-02 12:14 G 4091363.88 4091364.01 4091364.15 0.0486 0.0292

Neptune 6489-10-27 01:11 G 4091418.52 4091418.55 4091418.60 0.0089 0.0085

Saturn 6489-11-28 08:38 G 4091450.74 4091450.86 4091451.00 0.0281 0.0176

Jupiter 6489-12-01 11:16 G 4091453.85 4091453.97 4091454.10 0.0486 0.0331

Mars 6491-10-01 20:24 G 4092123.27 4092123.35 4092123.43 0.1890 0.1350

Mars 6492-10-26 00:57 G 4092513.42 4092513.54 4092513.67 0.1660 0.1087

Mars 6493-09-06 12:14 G 4092828.96 4092829.01 4092829.06 0.1864 0.1666

Moon 6494-07-01 09:35 G 4093126.78 4093126.90 4093127.03 0.2664 0.1501

Earth 6494-07-01 09:50 G 4093126.79 4093126.91 4093127.04 0.2658 0.1490 *

Jupiter 6495-08-07 10:48 G 4093528.83 4093528.95 4093529.08 0.0542 0.0215

Jupiter 6495-11-04 21:50 G 4093618.33 4093618.41 4093618.48 0.0541 0.0439

Earth 6498-01-05 12:57 G 4094410.98 4094411.04 4094411.09 0.2676 0.2329

Moon 6498-01-05 12:57 G 4094410.99 4094411.04 4094411.09 0.2669 0.2351 *

Jupiter 6501-06-22 12:28 G 4095673.96 4095674.02 4095674.09 0.0486 0.0439

Jupiter 6501-09-20 11:16 G 4095763.80 4095763.97 4095764.13 0.0486 0.0174

Mars 6502-03-19 02:38 G 4095943.45 4095943.61 4095943.77 0.1655 0.0282

Pluto 6502-07-14 15:35 G 4096061.07 4096061.15 4096061.24 0.0073 0.0065

Pluto 6502-10-10 17:16 G 4096149.11 4096149.22 4096149.37 0.0073 0.0053

Pluto 6503-01-06 19:40 G 4096237.17 4096237.32 4096237.48 0.0072 0.0039

Venus 6503-01-23 21:07 G 4096254.30 4096254.38 4096254.46 0.3680 0.2390

Mars 6503-01-28 20:38 G 4096259.26 4096259.36 4096259.46 0.1871 0.0965

Pluto 6503-04-04 21:50 G 4096325.24 4096325.41 4096325.59 0.0072 0.0027

Pluto 6503-07-01 23:45 G 4096413.32 4096413.49 4096413.68 0.0072 0.0015

Pluto 6503-09-28 01:55 G 4096501.40 4096501.58 4096501.77 0.0072 0.0002

Pluto 6503-12-25 03:50 G 4096589.49 4096589.66 4096589.85 0.0072 0.0011

Pluto 6504-03-22 05:45 G 4096677.58 4096677.74 4096677.92 0.0072 0.0023

Pluto 6504-06-18 07:55 G 4096765.67 4096765.83 4096765.99 0.0072 0.0035

Saturn 6504-07-03 13:55 G 4096781.01 4096781.08 4096781.16 0.0277 0.0236

Venus	6504-08-07 13:11 G	4096815.96	4096816.05	4096816.14	0.3690	0.2702
Pluto	6504-09-14 09:50 G	4096853.78	4096853.91	4096854.05	0.0072	0.0047
Saturn	6504-09-30 03:07 G	4096869.50	4096869.63	4096869.76	0.0277	0.0124
Pluto	6504-12-11 11:45 G	4096941.89	4096941.99	4096942.10	0.0071	0.0059
Saturn	6504-12-27 15:50 G	4096958.02	4096958.16	4096958.30	0.0278	0.0014
Earth	6504-12-30 11:16 G	4096960.88	4096960.97	4096961.06	0.2672	0.1673
Moon	6504-12-30 11:45 G	4096960.91	4096960.99	4096961.08	0.2677	0.1662 *
Pluto	6505-03-09 13:40 G	4097030.06	4097030.07	4097030.10	0.0071	0.0071
Saturn	6505-03-26 04:33 G	4097046.56	4097046.69	4097046.82	0.0278	0.0096
Saturn	6505-06-22 16:48 G	4097135.11	4097135.20	4097135.30	0.0279	0.0205
Jupiter	6507-05-27 13:40 G	4097838.97	4097839.07	4097839.16	0.0542	0.0381
Jupiter	6507-08-25 00:57 G	4097928.42	4097928.54	4097928.65	0.0542	0.0281
Venus	6508-08-08 14:24 G	4098278.00	4098278.10	4098278.21	0.3681	0.1039
Venus	6510-02-21 15:21 G	4098840.01	4098840.14	4098840.28	0.3690	0.0225
Mars	6511-08-09 04:33 G	4099373.54	4099373.69	4099373.84	0.1650	0.0495
Mars	6512-06-20 04:48 G	4099689.59	4099689.70	4099689.82	0.1878	0.0251
Uranus	6513-01-14 21:07 G	4099898.35	4099898.38	4099898.42	0.0144	0.0141
Uranus	6513-04-13 04:33 G	4099986.58	4099986.69	4099986.81	0.0144	0.0113
Jupiter	6513-07-09 10:19 G	4100073.76	4100073.93	4100074.11	0.0486	0.0015
Uranus	6513-07-10 12:00 G	4100074.86	4100075.00	4100075.15	0.0144	0.0084
Uranus	6513-10-06 19:26 G	4100163.14	4100163.31	4100163.48	0.0144	0.0056
Uranus	6514-01-03 02:52 G	4100251.44	4100251.62	4100251.80	0.0144	0.0028
Venus	6514-02-22 07:40 G	4100301.71	4100301.82	4100301.93	0.3681	0.0309
Uranus	6514-04-01 10:33 G	4100339.75	4100339.94	4100340.12	0.0144	0.0002
Uranus	6514-06-28 18:00 G	4100428.07	4100428.25	4100428.43	0.0144	0.0030
Uranus	6514-09-25 01:40 G	4100516.40	4100516.57	4100516.74	0.0144	0.0059
Uranus	6514-12-22 09:07 G	4100604.74	4100604.88	4100605.04	0.0144	0.0088
Uranus	6515-03-20 16:48 G	4100693.11	4100693.20	4100693.32	0.0144	0.0117
Venus	6515-09-07 18:28 G	4100864.17	4100864.27	4100864.37	0.3689	0.2502
Earth	6518-01-02 05:31 G	4101711.62	4101711.73	4101711.84	0.2673	0.0222

Moon	6518-01-02 06:14 G	4101711.65	4101711.76	4101711.87	0.2672	0.0068 *
Saturn	6518-07-25 23:16 G	4101916.45	4101916.47	4101916.51	0.0283	0.0277
Saturn	6518-10-22 18:14 G	4102005.11	4102005.26	4102005.40	0.0282	0.0141
Saturn	6519-01-19 13:11 G	4102093.88	4102094.05	4102094.22	0.0282	0.0005
Jupiter	6519-03-15 16:48 G	4102149.19	4102149.20	4102149.20	0.0542	0.0541
Saturn	6519-04-18 08:38 G	4102182.71	4102182.86	4102183.01	0.0281	0.0136
Jupiter	6519-06-13 04:19 G	4102238.55	4102238.68	4102238.81	0.0542	0.0129
Saturn	6519-07-16 04:04 G	4102271.66	4102271.67	4102271.70	0.0281	0.0278
Venus	6519-09-08 00:43 G	4102325.43	4102325.53	4102325.63	0.3682	0.1583
Mars	6520-12-29 06:57 G	4102803.69	4102803.79	4102803.89	0.1645	0.1239
Mars	6521-11-10 12:43 G	4103119.92	4103120.03	4103120.15	0.1883	0.0506
Venus	6525-03-23 17:45 G	4104349.17	4104349.24	4104349.30	0.3683	0.2845
Jupiter	6525-04-27 10:19 G	4104383.77	4104383.93	4104384.09	0.0486	0.0141
Moon	6527-06-30 10:19 G	4105177.79	4105177.93	4105178.08	0.2665	0.0677
Earth	6527-06-30 11:16 G	4105177.83	4105177.97	4105178.12	0.2659	0.0656 *
Earth	6531-01-04 23:45 G	4106462.39	4106462.49	4106462.59	0.2675	0.1217
Moon	6531-01-05 00:14 G	4106462.41	4106462.51	4106462.61	0.2670	0.1281 *
Jupiter	6531-04-01 07:40 G	4106548.68	4106548.82	4106548.95	0.0542	0.0036
Mars	6531-04-02 20:38 G	4106550.27	4106550.36	4106550.45	0.1890	0.1269
Mars	6532-04-27 01:40 G	4106940.46	4106940.57	4106940.68	0.1661	0.1179
Mars	6533-03-08 12:14 G	4107255.97	4107256.01	4107256.05	0.1864	0.1736
Saturn	6533-11-20 14:52 G	4107513.11	4107513.12	4107513.13	0.0277	0.0275
Saturn	6534-02-17 04:04 G	4107601.55	4107601.67	4107601.78	0.0277	0.0163
Saturn	6534-05-16 16:48 G	4107690.06	4107690.20	4107690.34	0.0278	0.0053
Saturn	6534-08-13 05:31 G	4107778.60	4107778.73	4107778.87	0.0278	0.0058
Saturn	6534-11-09 18:00 G	4107867.14	4107867.25	4107867.37	0.0279	0.0166
Saturn	6535-02-06 06:28 G	4107955.74	4107955.77	4107955.79	0.0279	0.0273
Jupiter	6537-02-13 10:19 G	4108693.79	4108693.93	4108694.06	0.0486	0.0293
Jupiter	6537-05-14 09:21 G	4108783.76	4108783.89	4108784.02	0.0486	0.0328
Earth	6540-07-02 16:19 G	4109929.08	4109929.18	4109929.28	0.2658	0.2025

Moon	6540-07-02 16:33 G	4109929.09	4109929.19	4109929.29	0.2664	0.1977 *
Mars	6541-09-17 03:21 G	4110370.48	4110370.64	4110370.79	0.1655	0.0376
Mars	6542-07-29 20:38 G	4110686.27	4110686.36	4110686.46	0.1871	0.1039
Jupiter	6543-01-18 10:19 G	4110858.80	4110858.93	4110859.05	0.0542	0.0199
Jupiter	6543-04-17 20:52 G	4110948.31	4110948.37	4110948.45	0.0541	0.0454
Moon	6544-01-07 17:45 G	4111213.21	4111213.24	4111213.26	0.2669	0.2586
Earth	6544-01-07 17:45 G	4111213.22	4111213.24	4111213.26	0.2676	0.2625 *
Saturn	6548-03-10 18:14 G	4112737.13	4112737.26	4112737.39	0.0282	0.0182
Saturn	6548-06-07 13:11 G	4112825.88	4112826.05	4112826.22	0.0282	0.0045
Saturn	6548-09-04 08:24 G	4112914.69	4112914.85	4112915.01	0.0281	0.0095
Saturn	6548-12-02 03:50 G	4113003.58	4113003.66	4113003.76	0.0281	0.0236
Jupiter	6548-12-02 10:33 G	4113003.88	4113003.94	4113004.02	0.0486	0.0438
Jupiter	6549-03-02 09:21 G	4113093.73	4113093.89	4113094.05	0.0486	0.0176
Earth	6550-12-31 16:04 G	4113763.08	4113763.17	4113763.27	0.2672	0.1372
Moon	6550-12-31 16:48 G	4113763.10	4113763.20	4113763.30	0.2675	0.1226 *
Mars	6551-02-07 05:16 G	4113800.56	4113800.72	4113800.87	0.1650	0.0402
Mars	6551-12-20 04:48 G	4114116.58	4114116.70	4114116.82	0.1877	0.0312
Venus	6554-02-14 01:40 G	4114903.52	4114903.57	4114903.61	0.3679	0.3344
Jupiter	6554-11-06 12:00 G	4115168.90	4115169.00	4115169.09	0.0542	0.0384
Jupiter	6555-02-03 23:02 G	4115258.35	4115258.46	4115258.58	0.0542	0.0278
Uranus	6556-04-18 05:45 G	4115697.69	4115697.74	4115697.81	0.0134	0.0120
Uranus	6556-07-15 09:21 G	4115785.80	4115785.89	4115785.98	0.0134	0.0102
Uranus	6556-10-11 12:43 G	4115873.93	4115874.03	4115874.14	0.0134	0.0085
Uranus	6557-01-07 16:04 G	4115962.06	4115962.17	4115962.29	0.0134	0.0067
Uranus	6557-04-05 19:26 G	4116050.19	4116050.31	4116050.44	0.0134	0.0050
Uranus	6557-07-02 22:48 G	4116138.32	4116138.45	4116138.59	0.0134	0.0032
Uranus	6557-09-29 02:09 G	4116226.46	4116226.59	4116226.73	0.0134	0.0015
Uranus	6557-12-26 05:31 G	4116314.59	4116314.73	4116314.87	0.0134	0.0002
Uranus	6558-03-24 08:52 G	4116402.73	4116402.87	4116403.00	0.0135	0.0020
Uranus	6558-06-20 12:00 G	4116490.87	4116491.00	4116491.13	0.0135	0.0037

Uranus	6558-09-16 15:07 G	4116579.02	4116579.13	4116579.26	0.0135	0.0055
Uranus	6558-12-13 18:28 G	4116667.16	4116667.27	4116667.39	0.0135	0.0072
Uranus	6559-03-11 21:35 G	4116755.31	4116755.40	4116755.51	0.0135	0.0089
Uranus	6559-06-08 00:57 G	4116843.46	4116843.54	4116843.63	0.0135	0.0106
Venus	6559-08-30 18:57 G	4116927.20	4116927.29	4116927.39	0.3680	0.1962
Uranus	6559-09-04 04:04 G	4116931.63	4116931.67	4116931.74	0.0135	0.0123
Mars	6560-06-29 07:40 G	4117230.70	4117230.82	4117230.93	0.1645	0.1151
Jupiter	6560-12-19 09:07 G	4117403.71	4117403.88	4117404.05	0.0486	0.0021
Venus	6561-03-14 13:26 G	4117488.94	4117489.06	4117489.18	0.3690	0.1955
Mars	6561-05-11 12:57 G	4117546.92	4117547.04	4117547.15	0.1884	0.0432
Saturn	6563-07-07 07:26 G	4118333.71	4118333.81	4118333.92	0.0277	0.0183
Saturn	6563-10-03 20:24 G	4118422.21	4118422.35	4118422.49	0.0278	0.0071
Saturn	6563-12-31 09:07 G	4118510.74	4118510.88	4118511.02	0.0278	0.0039
Earth	6564-01-03 10:19 G	4118513.82	4118513.93	4118514.05	0.2673	0.0103
Moon	6564-01-03 11:02 G	4118513.85	4118513.96	4118514.08	0.2672	0.0170 *
Saturn	6564-03-28 21:35 G	4118599.29	4118599.40	4118599.52	0.0279	0.0148
Saturn	6564-06-25 10:04 G	4118687.87	4118687.92	4118687.98	0.0279	0.0255
Venus	6565-03-15 12:28 G	4118950.91	4118951.02	4118951.13	0.3681	0.0603
Neptune	6566-09-27 22:19 G	4119512.39	4119512.43	4119512.50	0.0088	0.0083
Venus	6566-09-28 16:04 G	4119513.03	4119513.17	4119513.30	0.3690	0.0631
Jupiter	6566-11-23 02:09 G	4119568.46	4119568.59	4119568.72	0.0542	0.0115
Neptune	6566-12-25 01:26 G	4119600.47	4119600.56	4119600.65	0.0088	0.0074
Neptune	6567-03-23 03:50 G	4119688.56	4119688.66	4119688.79	0.0088	0.0066
Neptune	6567-06-19 06:28 G	4119776.65	4119776.77	4119776.92	0.0088	0.0058
Neptune	6567-09-15 09:21 G	4119864.76	4119864.89	4119865.05	0.0088	0.0049
Neptune	6567-12-12 12:28 G	4119952.86	4119953.02	4119953.17	0.0088	0.0040
Neptune	6568-03-09 14:52 G	4120040.97	4120041.12	4120041.30	0.0088	0.0032
Neptune	6568-06-05 18:00 G	4120129.08	4120129.25	4120129.42	0.0088	0.0023
Neptune	6568-09-01 20:38 G	4120217.19	4120217.36	4120217.54	0.0088	0.0015
Neptune	6568-11-28 23:31 G	4120305.31	4120305.48	4120305.66	0.0088	0.0006

Neptune 6569-02-25 02:24 G 4120393.42 4120393.60 4120393.78 0.0088 0.0003

Neptune 6569-05-24 05:16 G 4120481.54 4120481.72 4120481.90 0.0088 0.0012

Neptune 6569-08-20 07:55 G 4120569.67 4120569.83 4120570.01 0.0088 0.0021

Neptune 6569-11-16 11:02 G 4120657.79 4120657.96 4120658.13 0.0088 0.0029

Neptune 6570-02-12 13:55 G 4120745.92 4120746.08 4120746.24 0.0088 0.0038

Neptune 6570-05-11 16:48 G 4120834.05 4120834.20 4120834.35 0.0088 0.0047

Neptune 6570-08-07 19:26 G 4120922.19 4120922.31 4120922.46 0.0088 0.0056

Venus 6570-09-29 05:31 G 4120974.63 4120974.73 4120974.84 0.3681 0.0708

Mars 6570-10-01 20:38 G 4120977.27 4120977.36 4120977.45 0.1890 0.1194

Neptune 6570-11-03 22:19 G 4121010.33 4121010.43 4121010.57 0.0088 0.0065

Neptune 6571-01-31 01:26 G 4121098.47 4121098.56 4121098.66 0.0088 0.0074

Neptune 6571-04-29 04:19 G 4121186.63 4121186.68 4121186.75 0.0088 0.0083

Mars 6571-10-27 02:09 G 4121367.49 4121367.59 4121367.70 0.1660 0.1268

Venus 6572-04-13 18:57 G 4121537.23 4121537.29 4121537.35 0.3688 0.3329

Mars 6572-09-06 12:14 G 4121682.99 4121683.01 4121683.04 0.1864 0.1805

Jupiter 6572-10-07 08:24 G 4121713.68 4121713.85 4121714.01 0.0486 0.0140

Moon 6573-06-30 16:48 G 4121980.05 4121980.20 4121980.35 0.2665 0.0342

Earth 6573-06-30 17:45 G 4121980.08 4121980.24 4121980.39 0.2659 0.0147 *

Venus 6576-04-13 22:33 G 4122998.35 4122998.44 4122998.53 0.3682 0.1987

Earth 6577-01-05 04:33 G 4123264.60 4123264.69 4123264.78 0.2675 0.1511

Moon 6577-01-05 04:48 G 4123264.61 4123264.70 4123264.79 0.2669 0.1587 *

Saturn 6577-07-28 19:11 G 4123469.19 4123469.30 4123469.40 0.0282 0.0214

Saturn 6577-10-25 13:55 G 4123557.92 4123558.08 4123558.24 0.0282 0.0078

Saturn 6578-01-22 09:07 G 4123646.71 4123646.88 4123647.04 0.0281 0.0061

Saturn 6578-04-21 04:19 G 4123735.57 4123735.68 4123735.81 0.0281 0.0201

Jupiter 6578-09-11 05:31 G 4123878.59 4123878.73 4123878.86 0.0542 0.0043

Mars 6581-03-18 03:50 G 4124797.50 4124797.66 4124797.81 0.1655 0.0461

Venus 6581-10-28 15:21 G 4125022.09 4125022.14 4125022.19 0.3683 0.3227

Mars 6582-01-27 20:38 G 4125113.27 4125113.36 4125113.46 0.1871 0.1113

Earth 6583-12-30 02:38 G 4125814.58 4125814.61 4125814.65 0.2670 0.2530

Moon	6583-12-30 03:07 G	4125814.58	4125814.63	4125814.67	0.2677	0.2452 *
Jupiter	6584-07-26 08:24 G	4126023.71	4126023.85	4126023.99	0.0486	0.0291
Jupiter	6584-10-24 07:26 G	4126113.68	4126113.81	4126113.94	0.0486	0.0329
Earth	6586-07-03 22:33 G	4126731.40	4126731.44	4126731.48	0.2657	0.2552
Jupiter	6590-06-30 08:24 G	4128188.73	4128188.85	4128188.98	0.0542	0.0201
Mars	6590-08-08 05:45 G	4128227.59	4128227.74	4128227.90	0.1650	0.0313
Jupiter	6590-09-27 19:11 G	4128278.24	4128278.30	4128278.38	0.0541	0.0453
Mars	6591-06-20 04:48 G	4128543.59	4128543.70	4128543.82	0.1877	0.0391
Saturn	6592-11-23 08:24 G	4129065.77	4129065.85	4129065.94	0.0277	0.0221
Saturn	6593-02-19 21:35 G	4129154.27	4129154.40	4129154.53	0.0277	0.0109
Saturn	6593-05-19 10:33 G	4129242.79	4129242.94	4129243.08	0.0278	0.0009
Saturn	6593-08-15 23:02 G	4129331.33	4129331.46	4129331.59	0.0278	0.0111
Saturn	6593-11-12 11:31 G	4129419.90	4129419.98	4129420.07	0.0279	0.0219
Jupiter	6596-05-14 08:24 G	4130333.78	4130333.85	4130333.92	0.0486	0.0441
Jupiter	6596-08-12 06:57 G	4130423.63	4130423.79	4130423.95	0.0486	0.0171
Earth	6596-12-31 21:07 G	4130565.27	4130565.38	4130565.48	0.2672	0.1066
Moon	6596-12-31 21:50 G	4130565.30	4130565.41	4130565.51	0.2674	0.1026 *
Uranus	6597-02-04 05:02 G	4130599.65	4130599.71	4130599.79	0.0144	0.0132
Uranus	6597-05-03 12:28 G	4130687.90	4130688.02	4130688.15	0.0144	0.0104
Uranus	6597-07-30 19:55 G	4130776.18	4130776.33	4130776.49	0.0144	0.0075
Uranus	6597-10-27 03:21 G	4130864.47	4130864.64	4130864.82	0.0144	0.0047
Uranus	6598-01-23 10:48 G	4130952.78	4130952.95	4130953.14	0.0144	0.0019
Uranus	6598-04-21 18:28 G	4131041.09	4131041.27	4131041.45	0.0144	0.0010
Uranus	6598-07-19 01:55 G	4131129.41	4131129.58	4131129.76	0.0144	0.0039
Uranus	6598-10-15 09:35 G	4131217.74	4131217.90	4131218.07	0.0144	0.0068
Uranus	6599-01-11 17:16 G	4131306.09	4131306.22	4131306.36	0.0144	0.0097
Uranus	6599-04-10 00:57 G	4131394.46	4131394.54	4131394.63	0.0144	0.0126
Mars	6599-12-29 08:09 G	4131657.72	4131657.84	4131657.96	0.1645	0.1065
Mars	6600-11-10 12:57 G	4131973.92	4131974.04	4131974.15	0.1883	0.0356
Jupiter	6602-04-19 11:02 G	4132498.86	4132498.96	4132499.06	0.0542	0.0370

Jupiter	6602-07-17 22:19 G	4132588.32	4132588.43	4132588.54	0.0542	0.0291	
Moon	6606-06-29 18:00 G	4134031.19	4134031.25	4134031.31	0.2665	0.2438	
Earth	6606-06-29 19:11 G	4134031.22	4134031.30	4134031.38	0.2661	0.2230	*
Saturn	6606-12-16 18:57 G	4134201.22	4134201.29	4134201.36	0.0282	0.0254	
Saturn	6607-03-15 13:40 G	4134289.92	4134290.07	4134290.23	0.0282	0.0119	
Saturn	6607-06-12 08:52 G	4134378.70	4134378.87	4134379.04	0.0281	0.0019	
Saturn	6607-09-09 04:04 G	4134467.54	4134467.67	4134467.82	0.0281	0.0159	
Jupiter	6608-06-01 06:57 G	4134733.62	4134733.79	4134733.96	0.0486	0.0020	
Earth	6610-01-04 15:21 G	4135316.03	4135316.14	4135316.25	0.2674	0.0387	
Moon	6610-01-04 16:04 G	4135316.06	4135316.17	4135316.28	0.2672	0.0548	*
Mars	6610-04-02 20:38 G	4135404.27	4135404.36	4135404.46	0.1890	0.1126	
Venus	6610-09-21 23:31 G	4135576.41	4135576.48	4135576.55	0.3680	0.2903	
Mars	6611-04-28 02:52 G	4135794.53	4135794.62	4135794.71	0.1661	0.1366	
Venus	6612-04-05 11:45 G	4136137.97	4136137.99	4136138.01	0.3691	0.3634	
Jupiter	6614-05-06 00:14 G	4136898.38	4136898.51	4136898.64	0.0542	0.0112	
Venus	6616-04-06 17:02 G	4137600.11	4137600.21	4137600.31	0.3680	0.1521	
Venus	6617-10-20 13:40 G	4138161.94	4138162.07	4138162.20	0.3690	0.1187	
Moon	6619-07-02 23:16 G	4138782.32	4138782.47	4138782.62	0.2665	0.0396	
Earth	6619-07-03 00:00 G	4138782.35	4138782.50	4138782.65	0.2659	0.0389	*
Jupiter	6620-03-20 06:43 G	4139043.62	4139043.78	4139043.95	0.0486	0.0134	
Mars	6620-09-17 04:33 G	4139224.53	4139224.69	4139224.84	0.1655	0.0559	
Mars	6621-07-29 20:38 G	4139540.27	4139540.36	4139540.45	0.1871	0.1177	
Venus	6621-10-21 10:19 G	4139623.82	4139623.93	4139624.04	0.3681	0.0186	
Saturn	6622-04-13 12:00 G	4139797.94	4139798.00	4139798.08	0.0277	0.0240	
Saturn	6622-07-11 01:11 G	4139886.42	4139886.55	4139886.68	0.0278	0.0128	
Saturn	6622-10-07 14:09 G	4139974.94	4139975.09	4139975.23	0.0278	0.0019	
Saturn	6623-01-04 02:38 G	4140063.48	4140063.61	4140063.75	0.0279	0.0093	
Earth	6623-01-07 09:21 G	4140066.81	4140066.89	4140066.97	0.2675	0.1811	
Moon	6623-01-07 09:35 G	4140066.82	4140066.90	4140066.99	0.2668	0.1790	*
Saturn	6623-04-02 15:07 G	4140152.04	4140152.13	4140152.23	0.0279	0.0201	

Venus	6623-05-06 16:19 G	4140186.05	4140186.18	4140186.31	0.3689	0.1422
Jupiter	6626-02-22 03:07 G	4141208.49	4141208.63	4141208.76	0.0542	0.0055
Venus	6627-05-07 03:21 G	4141647.54	4141647.64	4141647.75	0.3682	0.1119
Earth	6629-12-31 07:40 G	4142616.76	4142616.82	4142616.88	0.2670	0.2217
Moon	6629-12-31 07:55 G	4142616.77	4142616.83	4142616.90	0.2677	0.2211 *
Mars	6630-02-07 06:14 G	4142654.60	4142654.76	4142654.92	0.1650	0.0231
Mars	6630-12-20 05:02 G	4142970.59	4142970.71	4142970.82	0.1877	0.0464
Jupiter	6632-01-07 06:14 G	4143353.63	4143353.76	4143353.90	0.0486	0.0293
Jupiter	6632-04-06 05:16 G	4143443.59	4143443.72	4143443.85	0.0486	0.0327
Venus	6632-11-19 20:24 G	4143671.27	4143671.35	4143671.43	0.3682	0.2382
Saturn	6636-05-04 20:24 G	4144933.35	4144933.35	4144933.37	0.0283	0.0282
Saturn	6636-08-01 15:07 G	4145021.99	4145022.13	4145022.28	0.0282	0.0147
Saturn	6636-10-29 10:19 G	4145110.76	4145110.93	4145111.09	0.0282	0.0013
Saturn	6637-01-26 05:31 G	4145199.58	4145199.73	4145199.88	0.0281	0.0129
Saturn	6637-04-25 00:57 G	4145288.50	4145288.54	4145288.59	0.0281	0.0270
Jupiter	6637-12-11 06:14 G	4145518.64	4145518.76	4145518.88	0.0542	0.0214
Jupiter	6638-03-10 17:02 G	4145608.14	4145608.21	4145608.29	0.0542	0.0442
Venus	6638-06-05 13:11 G	4145695.03	4145695.05	4145695.07	0.3683	0.3611
Mars	6639-06-30 08:38 G	4146084.73	4146084.86	4146084.99	0.1645	0.0977
Uranus	6640-02-11 10:04 G	4146310.90	4146310.92	4146310.96	0.0134	0.0131
Uranus	6640-05-09 13:40 G	4146399.00	4146399.07	4146399.14	0.0134	0.0113
Mars	6640-05-11 12:57 G	4146400.93	4146401.04	4146401.16	0.1883	0.0286
Uranus	6640-08-05 17:02 G	4146487.12	4146487.21	4146487.31	0.0134	0.0096
Uranus	6640-11-01 20:24 G	4146575.24	4146575.35	4146575.47	0.0134	0.0078
Uranus	6641-01-28 23:45 G	4146663.37	4146663.49	4146663.62	0.0134	0.0061
Uranus	6641-04-27 03:07 G	4146751.50	4146751.63	4146751.76	0.0134	0.0044
Uranus	6641-07-24 06:28 G	4146839.64	4146839.77	4146839.91	0.0134	0.0026
Uranus	6641-10-20 09:50 G	4146927.77	4146927.91	4146928.05	0.0134	0.0009
Uranus	6642-01-16 13:11 G	4147015.91	4147016.05	4147016.18	0.0134	0.0009
Uranus	6642-04-14 16:19 G	4147104.05	4147104.18	4147104.32	0.0135	0.0026

Uranus 6642-07-11 19:40 G 4147192.19 4147192.32 4147192.45 0.0135 0.0043

Uranus 6642-10-07 22:48 G 4147280.34 4147280.45 4147280.58 0.0135 0.0061

Earth 6643-01-03 01:55 G 4147367.47 4147367.58 4147367.69 0.2672 0.0757

Moon 6643-01-03 02:38 G 4147367.50 4147367.61 4147367.72 0.2673 0.0598 *

Uranus 6643-01-04 02:09 G 4147368.48 4147368.59 4147368.70 0.0135 0.0077

Uranus 6643-04-02 05:16 G 4147456.63 4147456.72 4147456.82 0.0135 0.0095

Uranus 6643-06-29 08:24 G 4147544.79 4147544.85 4147544.94 0.0135 0.0112

Uranus 6643-09-25 12:00 G 4147632.96 4147633.00 4147633.04 0.0135 0.0128

Jupiter 6643-10-26 06:14 G 4147663.70 4147663.76 4147663.84 0.0486 0.0442

Jupiter 6644-01-24 04:48 G 4147753.54 4147753.70 4147753.86 0.0486 0.0171

Neptune 6649-01-07 10:33 G 4149563.90 4149563.94 4149564.00 0.0089 0.0084

Neptune 6649-04-05 12:28 G 4149651.95 4149652.02 4149652.10 0.0089 0.0076

Neptune 6649-07-02 14:09 G 4149740.00 4149740.09 4149740.19 0.0089 0.0068

Neptune 6649-09-28 15:50 G 4149828.06 4149828.16 4149828.27 0.0089 0.0061

Jupiter 6649-09-29 09:07 G 4149828.79 4149828.88 4149828.98 0.0542 0.0376

Mars 6649-10-01 20:52 G 4149831.27 4149831.37 4149831.46 0.1890 0.1052

Neptune 6649-12-25 17:31 G 4149916.12 4149916.23 4149916.35 0.0089 0.0053

Jupiter 6649-12-27 20:24 G 4149918.24 4149918.35 4149918.47 0.0542 0.0287

Neptune 6650-03-23 19:26 G 4150004.19 4150004.31 4150004.43 0.0089 0.0046

Neptune 6650-06-19 20:52 G 4150092.25 4150092.37 4150092.51 0.0089 0.0039

Neptune 6650-09-15 22:33 G 4150180.31 4150180.44 4150180.58 0.0089 0.0031

Mars 6650-10-27 03:35 G 4150221.58 4150221.65 4150221.73 0.1661 0.1462

Neptune 6650-12-13 00:14 G 4150268.38 4150268.51 4150268.65 0.0089 0.0024

Neptune 6651-03-11 01:55 G 4150356.45 4150356.58 4150356.73 0.0089 0.0016

Neptune 6651-06-07 03:35 G 4150444.51 4150444.65 4150444.80 0.0089 0.0009

Neptune 6651-09-03 05:16 G 4150532.58 4150532.72 4150532.86 0.0089 0.0002

Saturn 6651-11-28 02:24 G 4150618.49 4150618.60 4150618.72 0.0277 0.0165

Neptune 6651-11-30 06:57 G 4150620.65 4150620.79 4150620.93 0.0089 0.0006

Saturn 6652-02-24 15:21 G 4150707.00 4150707.14 4150707.28 0.0278 0.0054

Neptune 6652-02-26 08:38 G 4150708.72 4150708.86 4150709.00 0.0089 0.0013

Saturn 6652-05-23 04:04 G 4150795.53 4150795.67 4150795.81 0.0278 0.0056

Neptune 6652-05-24 10:04 G 4150796.79 4150796.92 4150797.06 0.0089 0.0021

Moon 6652-06-30 00:14 G 4150833.41 4150833.51 4150833.62 0.2665 0.1860

Earth 6652-06-30 01:40 G 4150833.45 4150833.57 4150833.68 0.2661 0.1715 *

Saturn 6652-08-19 16:33 G 4150884.08 4150884.19 4150884.31 0.0279 0.0165

Neptune 6652-08-20 11:31 G 4150884.86 4150884.98 4150885.13 0.0089 0.0029

Saturn 6652-11-16 05:02 G 4150972.68 4150972.71 4150972.74 0.0279 0.0272

Neptune 6652-11-16 13:11 G 4150972.93 4150973.05 4150973.19 0.0089 0.0036

Neptune 6653-02-12 14:52 G 4151061.00 4151061.12 4151061.25 0.0089 0.0042

Neptune 6653-05-11 16:33 G 4151149.08 4151149.19 4151149.31 0.0089 0.0050

Neptune 6653-08-07 18:00 G 4151237.15 4151237.25 4151237.36 0.0089 0.0057

Neptune 6653-11-03 19:40 G 4151325.23 4151325.32 4151325.42 0.0089 0.0064

Neptune 6654-01-30 20:52 G 4151413.30 4151413.37 4151413.47 0.0089 0.0072

Neptune 6654-04-28 22:33 G 4151501.39 4151501.44 4151501.52 0.0089 0.0079

Neptune 6654-07-26 00:00 G 4151589.48 4151589.50 4151589.56 0.0089 0.0086

Jupiter 6655-11-12 04:33 G 4152063.51 4152063.69 4152063.86 0.0486 0.0016

Earth 6656-01-05 20:09 G 4152118.23 4152118.34 4152118.45 0.2674 0.0686

Moon 6656-01-05 20:52 G 4152118.26 4152118.37 4152118.48 0.2671 0.0715 *

Mars 6659-02-22 04:19 G 4153261.66 4153261.68 4153261.71 0.1895 0.1838

Mars 6660-03-18 05:02 G 4153651.56 4153651.71 4153651.86 0.1655 0.0647

Mars 6661-01-27 20:52 G 4153967.28 4153967.37 4153967.45 0.1871 0.1253

Jupiter 6661-10-15 23:16 G 4154228.35 4154228.47 4154228.60 0.0542 0.0125

Pluto 6665-03-16 09:35 G 4155475.86 4155475.90 4155475.97 0.0071 0.0064

Pluto 6665-06-12 10:33 G 4155563.86 4155563.94 4155564.03 0.0071 0.0055

Moon 6665-07-03 06:00 G 4155584.61 4155584.75 4155584.89 0.2665 0.0827

Earth 6665-07-03 06:14 G 4155584.62 4155584.76 4155584.90 0.2659 0.0916 *

Pluto 6665-09-08 11:16 G 4155651.88 4155651.97 4155652.08 0.0071 0.0046

Pluto 6665-12-05 12:14 G 4155739.90 4155740.01 4155740.13 0.0071 0.0037

Saturn 6665-12-19 14:52 G 4155754.00 4155754.12 4155754.25 0.0282 0.0189

Pluto 6666-03-03 12:57 G 4155827.92 4155828.04 4155828.17 0.0071 0.0028

Saturn 6666-03-18 09:50 G 4155842.75 4155842.91 4155843.08 0.0282 0.0053

Pluto 6666-05-30 13:40 G 4155915.95 4155916.07 4155916.21 0.0072 0.0020

Saturn 6666-06-15 05:02 G 4155931.55 4155931.71 4155931.88 0.0281 0.0086

Pluto 6666-08-26 14:38 G 4156003.98 4156004.11 4156004.25 0.0072 0.0010

Saturn 6666-09-12 00:28 G 4156020.43 4156020.52 4156020.63 0.0281 0.0227

Pluto 6666-11-22 15:35 G 4156092.01 4156092.15 4156092.29 0.0072 0.0001

Pluto 6667-02-18 16:19 G 4156180.05 4156180.18 4156180.32 0.0072 0.0009

Venus 6667-04-28 21:35 G 4156249.32 4156249.40 4156249.48 0.3680 0.2463

Pluto 6667-05-17 17:02 G 4156268.08 4156268.21 4156268.35 0.0072 0.0018

Pluto 6667-08-13 18:00 G 4156356.12 4156356.25 4156356.38 0.0072 0.0027

Jupiter 6667-08-31 04:33 G 4156373.53 4156373.69 4156373.86 0.0486 0.0136

Pluto 6667-11-09 18:57 G 4156444.17 4156444.29 4156444.41 0.0072 0.0037

Pluto 6668-02-05 19:40 G 4156532.22 4156532.32 4156532.43 0.0072 0.0046

Pluto 6668-05-03 20:09 G 4156620.27 4156620.34 4156620.45 0.0073 0.0057

Pluto 6668-07-30 21:21 G 4156708.34 4156708.39 4156708.45 0.0073 0.0066

Venus 6668-11-10 12:00 G 4156810.91 4156811.00 4156811.08 0.3690 0.2896

Earth 6669-01-07 14:24 G 4156869.03 4156869.10 4156869.16 0.2675 0.2107

Moon 6669-01-07 14:24 G 4156869.04 4156869.10 4156869.17 0.2668 0.2185 *

Mars 6669-08-08 06:57 G 4157081.63 4157081.79 4157081.95 0.1650 0.0134

Mars 6670-06-20 05:02 G 4157397.59 4157397.71 4157397.82 0.1877 0.0531

Venus 6672-11-11 14:52 G 4158273.02 4158273.12 4158273.23 0.3680 0.1101

Jupiter 6673-08-04 01:26 G 4158538.42 4158538.56 4158538.69 0.0542 0.0059

Venus 6674-05-27 14:09 G 4158834.95 4158835.09 4158835.23 0.3690 0.0408

Earth 6676-01-01 12:28 G 4159418.95 4159419.02 4159419.10 0.2671 0.1914

Moon 6676-01-01 12:57 G 4159418.96 4159419.04 4159419.12 0.2675 0.1844 *

Venus 6678-05-28 08:09 G 4160296.73 4160296.84 4160296.95 0.3681 0.0242

Mars 6678-12-29 09:21 G 4160511.75 4160511.89 4160512.02 0.1645 0.0892

Jupiter 6679-06-19 04:33 G 4160683.56 4160683.69 4160683.83 0.0486 0.0288

Jupiter 6679-09-17 03:35 G 4160773.53 4160773.65 4160773.78 0.0486 0.0333

Mars 6679-11-10 12:57 G 4160827.93 4160828.04 4160828.16 0.1884 0.0215

Venus 6679-12-11 17:02 G 4160859.09 4160859.21 4160859.32 0.3689 0.2244

Uranus 6681-02-25 13:11 G 4161300.96 4161301.05 4161301.15 0.0144 0.0122

Saturn 6681-04-16 05:45 G 4161350.64 4161350.74 4161350.85 0.0277 0.0184

Uranus 6681-05-24 20:24 G 4161389.23 4161389.35 4161389.50 0.0144 0.0095

Saturn 6681-07-13 18:43 G 4161439.15 4161439.28 4161439.42 0.0278 0.0074

Uranus 6681-08-21 03:50 G 4161477.51 4161477.66 4161477.83 0.0144 0.0067

Saturn 6681-10-10 07:40 G 4161527.68 4161527.82 4161527.96 0.0278 0.0038

Uranus 6681-11-17 11:31 G 4161565.80 4161565.98 4161566.16 0.0144 0.0038

Saturn 6682-01-06 20:09 G 4161616.23 4161616.34 4161616.46 0.0279 0.0147

Uranus 6682-02-13 18:57 G 4161654.11 4161654.29 4161654.48 0.0144 0.0009

Saturn 6682-04-05 08:38 G 4161704.81 4161704.86 4161704.92 0.0279 0.0254

Uranus 6682-05-13 02:24 G 4161742.43 4161742.60 4161742.79 0.0144 0.0020

Uranus 6682-08-09 10:04 G 4161830.75 4161830.92 4161831.10 0.0144 0.0048

Uranus 6682-11-05 17:45 G 4161919.08 4161919.24 4161919.40 0.0144 0.0077

Uranus 6683-02-02 01:26 G 4162007.44 4162007.56 4162007.68 0.0144 0.0106

Uranus 6683-05-01 08:38 G 4162095.82 4162095.86 4162095.94 0.0144 0.0136

Venus 6683-12-12 01:11 G 4162320.46 4162320.55 4162320.65 0.3682 0.1527

Jupiter 6685-05-23 03:50 G 4162848.54 4162848.66 4162848.79 0.0542 0.0228

Jupiter 6685-08-20 14:52 G 4162938.04 4162938.12 4162938.20 0.0541 0.0427

Mars 6688-05-20 11:45 G 4163941.97 4163941.99 4163942.01 0.1641 0.1622

Earth 6689-01-03 06:57 G 4164169.68 4164169.79 4164169.90 0.2672 0.0458

Moon 6689-01-03 07:40 G 4164169.71 4164169.82 4164169.93 0.2673 0.0389 *

Mars 6689-04-01 20:52 G 4164258.27 4164258.37 4164258.48 0.1889 0.0969

Venus 6689-06-26 18:14 G 4164344.19 4164344.26 4164344.33 0.3682 0.2778

Mars 6690-04-27 04:04 G 4164648.62 4164648.67 4164648.73 0.1661 0.1550

Jupiter 6691-04-07 04:04 G 4164993.61 4164993.67 4164993.74 0.0486 0.0445

Jupiter 6691-07-06 02:38 G 4165083.44 4165083.61 4165083.77 0.0486 0.0167

Saturn 6695-05-08 17:02 G 4166486.11 4166486.21 4166486.32 0.0282 0.0213

Saturn 6695-08-05 11:45 G 4166574.83 4166574.99 4166575.16 0.0282 0.0078

Saturn 6695-11-02 06:57 G 4166663.63 4166663.79 4166663.96 0.0281 0.0061

Saturn	6696-01-30 02:24 G	4166752.48	4166752.60	4166752.72	0.0281	0.0200
Jupiter	6697-03-11 06:43 G	4167158.69	4167158.78	4167158.88	0.0542	0.0391
Jupiter	6697-06-08 18:14 G	4167248.15	4167248.26	4167248.37	0.0542	0.0274
Moon	6698-07-01 06:43 G	4167635.65	4167635.78	4167635.90	0.2665	0.1358
Earth	6698-07-01 07:55 G	4167635.69	4167635.83	4167635.96	0.2661	0.1207 *
Mars	6698-08-23 04:19 G	4167688.64	4167688.68	4167688.72	0.1895	0.1767
Mars	6699-09-17 05:31 G	4168078.59	4168078.73	4168078.88	0.1656	0.0738
Mars	6700-07-29 20:52 G	4168394.29	4168394.37	4168394.45	0.1870	0.1325
Earth	6702-01-07 01:11 G	4168920.44	4168920.55	4168920.65	0.2674	0.0994
Moon	6702-01-07 01:40 G	4168920.47	4168920.57	4168920.67	0.2669	0.1119 *
Jupiter	6703-04-25 02:24 G	4169393.43	4169393.60	4169393.77	0.0486	0.0013
Mars	6709-02-07 07:40 G	4171508.66	4171508.82	4171508.98	0.1650	0.0050
Jupiter	6709-03-28 21:35 G	4171558.27	4171558.40	4171558.53	0.0542	0.0119
Mars	6709-12-20 05:02 G	4171824.60	4171824.71	4171824.82	0.1877	0.0601
Saturn	6710-09-04 07:11 G	4172082.72	4172082.80	4172082.89	0.0277	0.0221
Saturn	6710-12-01 20:09 G	4172171.21	4172171.34	4172171.48	0.0277	0.0109
Saturn	6711-02-28 09:07 G	4172259.74	4172259.88	4172260.02	0.0278	0.0001
Saturn	6711-05-27 21:50 G	4172348.28	4172348.41	4172348.54	0.0278	0.0111
Moon	6711-07-05 12:28 G	4172386.90	4172387.02	4172387.15	0.2666	0.1485
Earth	6711-07-05 12:43 G	4172386.90	4172387.03	4172387.15	0.2659	0.1445 *
Saturn	6711-08-24 10:19 G	4172436.84	4172436.93	4172437.01	0.0279	0.0218
Moon	6715-01-09 19:11 G	4173671.25	4173671.30	4173671.35	0.2669	0.2361
Earth	6715-01-09 19:11 G	4173671.25	4173671.30	4173671.34	0.2675	0.2407 *
Jupiter	6715-02-11 02:09 G	4173703.42	4173703.59	4173703.75	0.0486	0.0143
Jupiter	6715-05-12 01:26 G	4173793.56	4173793.56	4173793.57	0.0486	0.0485
Venus	6718-05-21 01:55 G	4174898.54	4174898.58	4174898.62	0.3679	0.3412
Mars	6718-06-30 09:50 G	4174938.77	4174938.91	4174939.05	0.1645	0.0800
Mars	6719-05-12 13:11 G	4175254.93	4175255.05	4175255.17	0.1883	0.0132
Jupiter	6721-01-15 00:14 G	4175868.38	4175868.51	4175868.65	0.0542	0.0049
Earth	6722-01-02 17:31 G	4176221.14	4176221.23	4176221.32	0.2671	0.1608

Moon	6722-01-02 18:00 G	4176221.16	4176221.25	4176221.35	0.2675	0.1505 *
Venus	6723-12-04 19:26 G	4176922.22	4176922.31	4176922.41	0.3680	0.2025
Uranus	6724-03-03 18:00 G	4177012.21	4177012.25	4177012.31	0.0134	0.0124
Uranus	6724-05-30 21:21 G	4177100.32	4177100.39	4177100.48	0.0134	0.0106
Uranus	6724-08-27 00:57 G	4177188.44	4177188.54	4177188.64	0.0134	0.0089
Saturn	6724-09-25 16:33 G	4177218.13	4177218.19	4177218.26	0.0283	0.0256
Uranus	6724-11-23 04:19 G	4177276.56	4177276.68	4177276.80	0.0134	0.0071
Saturn	6724-12-23 11:16 G	4177306.82	4177306.97	4177307.12	0.0282	0.0121
Uranus	6725-02-19 07:40 G	4177364.69	4177364.82	4177364.95	0.0134	0.0054
Saturn	6725-03-22 06:28 G	4177395.60	4177395.77	4177395.93	0.0281	0.0018
Uranus	6725-05-18 11:02 G	4177452.83	4177452.96	4177453.09	0.0134	0.0036
Venus	6725-06-18 12:14 G	4177483.90	4177484.01	4177484.12	0.3690	0.2142
Saturn	6725-06-19 01:40 G	4177484.43	4177484.57	4177484.71	0.0281	0.0155
Uranus	6725-08-14 14:24 G	4177540.96	4177541.10	4177541.24	0.0134	0.0019
Uranus	6725-11-10 17:45 G	4177629.10	4177629.24	4177629.37	0.0134	0.0003
Uranus	6726-02-06 20:52 G	4177717.24	4177717.37	4177717.51	0.0135	0.0016
Uranus	6726-05-06 00:14 G	4177805.38	4177805.51	4177805.64	0.0135	0.0033
Uranus	6726-08-02 03:35 G	4177893.52	4177893.65	4177893.77	0.0135	0.0050
Uranus	6726-10-29 06:43 G	4177981.67	4177981.78	4177981.90	0.0135	0.0067
Jupiter	6726-11-30 02:24 G	4178013.46	4178013.60	4178013.73	0.0486	0.0291
Uranus	6727-01-25 10:04 G	4178069.81	4178069.92	4178070.02	0.0135	0.0084
Jupiter	6727-02-28 01:11 G	4178103.43	4178103.55	4178103.68	0.0486	0.0329
Uranus	6727-04-23 13:11 G	4178157.97	4178158.05	4178158.14	0.0135	0.0101
Uranus	6727-07-20 16:33 G	4178246.13	4178246.19	4178246.25	0.0135	0.0118
Mars	6727-11-20 12:28 G	4178368.97	4178369.02	4178369.07	0.1641	0.1531
Mars	6728-10-01 20:52 G	4178685.27	4178685.37	4178685.47	0.1889	0.0906
Venus	6729-06-19 12:57 G	4178945.93	4178946.04	4178946.15	0.3681	0.0667
Mars	6729-10-27 04:48 G	4179075.69	4179075.70	4179075.72	0.1661	0.1649
Venus	6731-01-02 14:38 G	4179507.97	4179508.11	4179508.25	0.3689	0.0397
Neptune	6731-06-26 20:09 G	4179683.30	4179683.34	4179683.42	0.0088	0.0082

Neptune 6731-09-22 23:02 G 4179771.38 4179771.46 4179771.57 0.0088 0.0073

Neptune 6731-12-20 01:40 G 4179859.47 4179859.57 4179859.70 0.0088 0.0065

Neptune 6732-03-17 04:48 G 4179947.57 4179947.70 4179947.84 0.0088 0.0056

Neptune 6732-06-13 07:11 G 4180035.67 4180035.80 4180035.96 0.0088 0.0048

Neptune 6732-09-09 10:19 G 4180123.77 4180123.93 4180124.09 0.0088 0.0039

Jupiter 6732-11-03 02:09 G 4180178.47 4180178.59 4180178.72 0.0542 0.0229

Neptune 6732-12-06 12:57 G 4180211.88 4180212.04 4180212.21 0.0088 0.0031

Jupiter 6733-01-31 13:11 G 4180267.97 4180268.05 4180268.13 0.0541 0.0425

Neptune 6733-03-04 15:50 G 4180299.99 4180300.16 4180300.33 0.0088 0.0022

Neptune 6733-05-31 18:43 G 4180388.10 4180388.28 4180388.45 0.0088 0.0013

Neptune 6733-08-27 21:21 G 4180476.22 4180476.39 4180476.57 0.0088 0.0005

Neptune 6733-11-24 00:14 G 4180564.33 4180564.51 4180564.69 0.0088 0.0004

Neptune 6734-02-20 03:07 G 4180652.45 4180652.63 4180652.81 0.0088 0.0013

Neptune 6734-05-19 05:45 G 4180740.58 4180740.74 4180740.92 0.0088 0.0022

Neptune 6734-08-15 08:52 G 4180828.70 4180828.87 4180829.04 0.0088 0.0030

Neptune 6734-11-11 11:45 G 4180916.83 4180916.99 4180917.15 0.0088 0.0039

Venus 6735-01-03 06:14 G 4180969.65 4180969.76 4180969.86 0.3681 0.0665

Earth 6735-01-05 11:45 G 4180971.88 4180971.99 4180972.10 0.2672 0.0149

Moon 6735-01-05 12:28 G 4180971.91 4180972.02 4180972.13 0.2673 0.0034 *

Neptune 6735-02-07 14:24 G 4181004.96 4181005.10 4181005.26 0.0088 0.0048

Neptune 6735-05-06 17:16 G 4181093.09 4181093.22 4181093.37 0.0088 0.0057

Neptune 6735-08-02 20:09 G 4181181.23 4181181.34 4181181.47 0.0088 0.0066

Neptune 6735-10-29 23:02 G 4181269.38 4181269.46 4181269.57 0.0088 0.0075

Neptune 6736-01-26 01:55 G 4181357.54 4181357.58 4181357.65 0.0088 0.0084

Venus 6736-07-18 17:31 G 4181532.16 4181532.23 4181532.31 0.3688 0.3079

Mars 6738-02-22 04:33 G 4182115.64 4182115.69 4182115.74 0.1895 0.1686

Jupiter 6738-09-18 02:24 G 4182323.54 4182323.60 4182323.67 0.0486 0.0441

Jupiter 6738-12-17 00:57 G 4182413.37 4182413.54 4182413.70 0.0486 0.0172

Mars 6739-03-19 06:14 G 4182505.62 4182505.76 4182505.90 0.1655 0.0832

Saturn 6740-01-22 10:19 G 4182814.87 4182814.93 4182815.00 0.0277 0.0242

Mars	6740-01-28 20:52 G	4182821.29	4182821.37	4182821.44	0.1870	0.1389
Saturn	6740-04-19 23:31 G	4182903.35	4182903.48	4182903.61	0.0278	0.0130
Saturn	6740-07-17 12:28 G	4182991.88	4182992.02	4182992.16	0.0278	0.0020
Venus	6740-07-18 23:16 G	4182993.37	4182993.47	4182993.56	0.3682	0.1931
Saturn	6740-10-14 01:11 G	4183080.42	4183080.55	4183080.68	0.0279	0.0091
Saturn	6741-01-10 13:40 G	4183168.98	4183169.07	4183169.17	0.0279	0.0199
Moon	6744-07-02 13:11 G	4184437.91	4184438.05	4184438.19	0.2665	0.0834
Earth	6744-07-02 14:09 G	4184437.94	4184438.09	4184438.24	0.2660	0.0681 *
Jupiter	6744-08-22 04:33 G	4184488.60	4184488.69	4184488.78	0.0542	0.0401
Jupiter	6744-11-19 16:04 G	4184578.05	4184578.17	4184578.28	0.0542	0.0262
Venus	6746-02-01 16:04 G	4185017.12	4185017.17	4185017.22	0.3683	0.3169
Earth	6748-01-08 06:00 G	4185722.65	4185722.75	4185722.85	0.2674	0.1289
Moon	6748-01-08 06:28 G	4185722.67	4185722.77	4185722.87	0.2668	0.1304 *
Mars	6748-08-08 08:09 G	4185935.68	4185935.84	4185936.00	0.1650	0.0047
Mars	6749-06-20 05:16 G	4186251.61	4186251.72	4186251.82	0.1877	0.0685
Jupiter	6750-10-05 00:00 G	4186723.33	4186723.50	4186723.67	0.0486	0.0008
Pluto	6750-11-07 21:07 G	4186757.33	4186757.38	4186757.49	0.0073	0.0066
Pluto	6751-02-03 23:31 G	4186845.37	4186845.48	4186845.62	0.0073	0.0053
Pluto	6751-05-03 01:40 G	4186933.43	4186933.57	4186933.74	0.0072	0.0040
Pluto	6751-07-30 04:04 G	4187021.50	4187021.67	4187021.84	0.0072	0.0027
Pluto	6751-10-26 06:00 G	4187109.57	4187109.75	4187109.93	0.0072	0.0014
Pluto	6752-01-22 08:09 G	4187197.65	4187197.84	4187198.02	0.0072	0.0002
Pluto	6752-04-19 10:04 G	4187285.74	4187285.92	4187286.10	0.0072	0.0011
Pluto	6752-07-16 12:00 G	4187373.83	4187374.00	4187374.18	0.0072	0.0023
Pluto	6752-10-12 14:09 G	4187461.93	4187462.09	4187462.25	0.0072	0.0035
Pluto	6753-01-08 15:35 G	4187550.03	4187550.15	4187550.31	0.0072	0.0048
Pluto	6753-04-06 17:31 G	4187638.15	4187638.23	4187638.35	0.0071	0.0060
Pluto	6753-07-03 19:55 G	4187726.32	4187726.33	4187726.35	0.0071	0.0071
Saturn	6754-02-12 18:57 G	4187950.27	4187950.29	4187950.33	0.0283	0.0278
Saturn	6754-05-12 13:40 G	4188038.93	4188039.07	4188039.22	0.0282	0.0144

Saturn 6754-08-09 08:38 G 4188127.69 4188127.86 4188128.03 0.0282 0.0007

Saturn 6754-11-06 03:50 G 4188216.51 4188216.66 4188216.81 0.0281 0.0132

Saturn 6755-02-02 23:16 G 4188305.44 4188305.47 4188305.52 0.0280 0.0272

Jupiter 6756-09-07 19:11 G 4188888.17 4188888.30 4188888.43 0.0542 0.0104

Moon 6757-07-05 18:57 G 4189189.19 4189189.29 4189189.39 0.2666 0.1957

Earth 6757-07-05 18:57 G 4189189.19 4189189.29 4189189.39 0.2658 0.1973 *

Mars 6757-12-29 10:19 G 4189365.79 4189365.93 4189366.08 0.1646 0.0715

Mars 6758-11-10 13:11 G 4189681.93 4189682.05 4189682.17 0.1883 0.0063

Jupiter 6762-07-24 00:00 G 4191033.34 4191033.50 4191033.66 0.0486 0.0144

Jupiter 6762-10-21 23:16 G 4191123.46 4191123.47 4191123.49 0.0486 0.0482

Uranus 6764-12-20 14:38 G 4191914.06 4191914.11 4191914.16 0.0144 0.0139

Uranus 6765-03-18 21:35 G 4192002.30 4192002.40 4192002.53 0.0144 0.0111

Uranus 6765-06-15 05:02 G 4192090.57 4192090.71 4192090.87 0.0144 0.0083

Uranus 6765-09-11 12:43 G 4192178.86 4192179.03 4192179.20 0.0144 0.0055

Uranus 6765-12-08 20:09 G 4192267.16 4192267.34 4192267.52 0.0144 0.0026

Uranus 6766-03-07 03:35 G 4192355.47 4192355.65 4192355.83 0.0144 0.0002

Uranus 6766-06-03 11:02 G 4192443.79 4192443.96 4192444.14 0.0144 0.0031

Uranus 6766-08-30 18:43 G 4192532.11 4192532.28 4192532.45 0.0144 0.0060

Uranus 6766-11-27 02:09 G 4192620.45 4192620.59 4192620.74 0.0144 0.0089

Uranus 6767-02-23 09:50 G 4192708.81 4192708.91 4192709.02 0.0144 0.0118

Mars 6767-05-21 12:57 G 4192795.97 4192796.04 4192796.12 0.1641 0.1446

Earth 6768-01-03 22:19 G 4193023.33 4193023.43 4193023.53 0.2671 0.1300

Moon 6768-01-03 23:02 G 4193023.36 4193023.46 4193023.56 0.2675 0.1239 *

Mars 6768-04-01 21:07 G 4193112.27 4193112.38 4193112.48 0.1889 0.0826

Jupiter 6768-06-26 22:19 G 4193198.30 4193198.43 4193198.57 0.0542 0.0054

Saturn 6769-09-07 00:57 G 4193635.43 4193635.54 4193635.65 0.0277 0.0166

Saturn 6769-12-04 13:55 G 4193723.94 4193724.08 4193724.22 0.0278 0.0055

Saturn 6770-03-03 02:38 G 4193812.47 4193812.61 4193812.75 0.0278 0.0055

Saturn 6770-05-30 15:07 G 4193901.02 4193901.13 4193901.25 0.0279 0.0164

Saturn 6770-08-27 03:35 G 4193989.62 4193989.65 4193989.69 0.0279 0.0271

Jupiter	6774-05-12 00:00 G	4195343.36	4195343.50	4195343.63	0.0486	0.0297
Jupiter	6774-08-09 22:48 G	4195433.32	4195433.45	4195433.58	0.0486	0.0322
Venus	6774-12-26 00:00 G	4195571.44	4195571.50	4195571.56	0.3680	0.2964
Mars	6777-08-23 04:33 G	4196542.63	4196542.69	4196542.75	0.1895	0.1614
Mars	6778-09-17 06:57 G	4196932.66	4196932.79	4196932.92	0.1656	0.0928
Mars	6779-07-29 20:52 G	4197248.30	4197248.37	4197248.44	0.1870	0.1466
Jupiter	6780-04-15 01:11 G	4197508.43	4197508.55	4197508.67	0.0542	0.0219
Venus	6780-07-10 17:31 G	4197595.13	4197595.23	4197595.33	0.3680	0.1583
Jupiter	6780-07-13 12:00 G	4197597.93	4197598.00	4197598.08	0.0541	0.0437
Earth	6781-01-05 16:48 G	4197774.08	4197774.20	4197774.31	0.2673	0.0191
Moon	6781-01-05 17:16 G	4197774.11	4197774.22	4197774.34	0.2671	0.0268 *
Venus	6782-01-23 12:28 G	4198156.89	4198157.02	4198157.15	0.3690	0.1381
Saturn	6783-09-29 12:43 G	4198770.91	4198771.03	4198771.16	0.0282	0.0190
Saturn	6783-12-27 07:40 G	4198859.66	4198859.82	4198859.99	0.0282	0.0053
Saturn	6784-03-25 02:52 G	4198948.46	4198948.62	4198948.78	0.0281	0.0085
Saturn	6784-06-21 22:19 G	4199037.33	4199037.43	4199037.54	0.0281	0.0225
Venus	6786-01-24 10:48 G	4199618.84	4199618.95	4199619.06	0.3681	0.0253
Jupiter	6786-02-28 00:14 G	4199653.45	4199653.51	4199653.58	0.0486	0.0444
Jupiter	6786-05-28 22:33 G	4199743.28	4199743.44	4199743.60	0.0486	0.0169
Venus	6787-08-09 15:07 G	4200180.99	4200181.13	4200181.26	0.3689	0.1196
Mars	6788-02-07 08:52 G	4200362.71	4200362.87	4200363.03	0.1650	0.0142
Mars	6788-12-19 05:02 G	4200678.61	4200678.71	4200678.82	0.1877	0.0746
Moon	6790-07-03 19:55 G	4201240.18	4201240.33	4201240.47	0.2666	0.0194
Earth	6790-07-03 20:23 G	4201240.20	4201240.35	4201240.50	0.2660	0.0167 *
Venus	6791-08-10 04:04 G	4201642.56	4201642.67	4201642.77	0.3682	0.1061
Jupiter	6792-02-02 03:07 G	4201818.54	4201818.63	4201818.72	0.0542	0.0400
Jupiter	6792-05-01 14:23 G	4201907.99	4201908.10	4201908.22	0.0541	0.0263
Earth	6794-01-08 10:48 G	4202524.86	4202524.95	4202525.04	0.2674	0.1586
Moon	6794-01-08 11:16 G	4202524.88	4202524.97	4202525.06	0.2669	0.1684 *
Venus	6797-02-22 21:07 G	4203666.29	4203666.38	4203666.46	0.3682	0.2329

Mars 6797-06-29 11:02 G 4203792.81 4203792.96 4203793.11 0.1645 0.0625

Jupiter 6798-03-16 22:19 G 4204053.26 4204053.43 4204053.60 0.0486 0.0013

Mars 6798-05-11 13:11 G 4204108.93 4204109.05 4204109.17 0.1883 0.0030

Saturn 6799-01-25 03:50 G 4204367.56 4204367.66 4204367.77 0.0278 0.0189

Saturn 6799-04-23 16:48 G 4204456.07 4204456.20 4204456.34 0.0278 0.0078

Saturn 6799-07-21 05:45 G 4204544.60 4204544.74 4204544.88 0.0279 0.0033

Saturn 6799-10-17 18:28 G 4204633.15 4204633.27 4204633.39 0.0279 0.0142

Saturn 6800-01-14 06:57 G 4204721.73 4204721.79 4204721.85 0.0280 0.0250

Earth 6801-01-01 08:52 G 4205074.83 4205074.87 4205074.91 0.2670 0.2463

Moon 6801-01-01 09:07 G 4205074.85 4205074.88 4205074.92 0.2675 0.2488 *

Venus 6802-09-08 13:55 G 4205690.05 4205690.08 4205690.10 0.3683 0.3553

Earth 6803-07-07 01:26 G 4205991.51 4205991.56 4205991.60 0.2658 0.2515

Moon 6803-07-07 01:26 G 4205991.52 4205991.56 4205991.61 0.2665 0.2540 *

Jupiter 6804-02-18 17:16 G 4206218.08 4206218.22 4206218.35 0.0542 0.0097

Mars 6806-11-19 13:26 G 4207222.98 4207223.06 4207223.15 0.1641 0.1366

Mars 6807-10-01 21:07 G 4207539.27 4207539.38 4207539.49 0.1889 0.0747

Uranus 6808-03-24 01:40 G 4207713.51 4207713.57 4207713.65 0.0134 0.0117

Uranus 6808-06-20 05:16 G 4207801.63 4207801.72 4207801.81 0.0134 0.0099

Uranus 6808-09-16 08:38 G 4207889.75 4207889.86 4207889.97 0.0134 0.0082

Uranus 6808-12-13 12:00 G 4207977.88 4207978.00 4207978.12 0.0134 0.0064

Uranus 6809-03-11 15:21 G 4208066.01 4208066.14 4208066.27 0.0134 0.0047

Uranus 6809-06-07 18:43 G 4208154.15 4208154.28 4208154.42 0.0134 0.0030

Uranus 6809-09-03 22:04 G 4208242.28 4208242.42 4208242.56 0.0134 0.0012

Uranus 6809-12-01 01:26 G 4208330.42 4208330.56 4208330.70 0.0134 0.0005

Jupiter 6810-01-02 21:50 G 4208363.24 4208363.41 4208363.57 0.0486 0.0147

Uranus 6810-02-27 04:48 G 4208418.56 4208418.70 4208418.83 0.0134 0.0023

Jupiter 6810-04-02 20:52 G 4208453.35 4208453.37 4208453.40 0.0486 0.0479

Uranus 6810-05-26 07:55 G 4208506.70 4208506.83 4208506.96 0.0135 0.0040

Uranus 6810-08-22 11:16 G 4208594.85 4208594.97 4208595.09 0.0135 0.0057

Uranus 6810-11-18 14:23 G 4208682.99 4208683.10 4208683.22 0.0135 0.0074

Uranus 6811-02-14 17:45 G 4208771.14 4208771.24 4208771.34 0.0135 0.0091

Uranus 6811-05-13 20:52 G 4208859.30 4208859.37 4208859.45 0.0135 0.0108

Uranus 6811-08-10 00:00 G 4208947.46 4208947.50 4208947.56 0.0135 0.0125

Saturn 6813-02-15 15:07 G 4209503.03 4209503.13 4209503.25 0.0282 0.0212

Saturn 6813-05-15 10:04 G 4209591.76 4209591.92 4209592.08 0.0282 0.0076

Saturn 6813-08-12 05:02 G 4209680.55 4209680.71 4209680.88 0.0281 0.0062

Neptune 6813-10-05 09:21 G 4209734.85 4209734.89 4209734.95 0.0089 0.0083

Saturn 6813-11-09 00:28 G 4209769.41 4209769.52 4209769.64 0.0281 0.0201

Neptune 6814-01-01 11:16 G 4209822.89 4209822.97 4209823.04 0.0089 0.0076

Earth 6814-01-04 03:21 G 4209825.53 4209825.64 4209825.74 0.2671 0.0993

Moon 6814-01-04 04:04 G 4209825.56 4209825.67 4209825.77 0.2675 0.0861 *

Neptune 6814-03-30 12:43 G 4209910.95 4209911.03 4209911.13 0.0089 0.0069

Neptune 6814-06-26 14:38 G 4209999.01 4209999.11 4209999.21 0.0089 0.0061

Neptune 6814-09-22 16:04 G 4210087.07 4210087.17 4210087.30 0.0089 0.0054

Neptune 6814-12-19 18:00 G 4210175.13 4210175.25 4210175.37 0.0089 0.0046

Neptune 6815-03-17 19:26 G 4210263.19 4210263.31 4210263.45 0.0089 0.0039

Neptune 6815-06-13 21:21 G 4210351.26 4210351.39 4210351.53 0.0089 0.0031

Neptune 6815-09-09 23:02 G 4210439.32 4210439.46 4210439.60 0.0089 0.0023

Neptune 6815-12-07 00:43 G 4210527.39 4210527.53 4210527.67 0.0089 0.0016

Jupiter 6815-12-07 20:09 G 4210528.20 4210528.34 4210528.47 0.0542 0.0068

Neptune 6816-03-04 02:23 G 4210615.46 4210615.60 4210615.74 0.0089 0.0009

Neptune 6816-05-31 04:04 G 4210703.53 4210703.67 4210703.81 0.0089 0.0002

Neptune 6816-08-27 05:45 G 4210791.59 4210791.74 4210791.88 0.0089 0.0007

Neptune 6816-11-23 07:11 G 4210879.66 4210879.80 4210879.94 0.0089 0.0014

Neptune 6817-02-19 08:52 G 4210967.73 4210967.87 4210968.01 0.0089 0.0021

Mars 6817-02-21 04:48 G 4210969.63 4210969.70 4210969.76 0.1895 0.1539

Neptune 6817-05-18 10:19 G 4211055.80 4211055.93 4211056.07 0.0089 0.0029

Neptune 6817-08-14 12:00 G 4211143.88 4211144.00 4211144.13 0.0089 0.0035

Neptune 6817-11-10 13:40 G 4211231.95 4211232.07 4211232.20 0.0089 0.0043

Neptune 6818-02-06 15:21 G 4211320.02 4211320.14 4211320.25 0.0089 0.0050

Mars 6818-03-18 07:26 G 4211359.68 4211359.81 4211359.94 0.1656 0.1015

Neptune 6818-05-05 16:33 G 4211408.10 4211408.19 4211408.31 0.0089 0.0058

Neptune 6818-08-01 18:14 G 4211496.18 4211496.26 4211496.37 0.0089 0.0064

Neptune 6818-10-28 19:55 G 4211584.25 4211584.33 4211584.42 0.0089 0.0071

Neptune 6819-01-24 21:21 G 4211672.34 4211672.39 4211672.47 0.0089 0.0079

Mars 6819-01-27 20:52 G 4211675.31 4211675.37 4211675.44 0.1870 0.1538

Neptune 6819-04-22 23:02 G 4211760.43 4211760.46 4211760.51 0.0089 0.0086

Jupiter 6821-10-21 21:50 G 4212673.28 4212673.41 4212673.55 0.0486 0.0297

Jupiter 6822-01-19 20:38 G 4212763.23 4212763.36 4212763.49 0.0486 0.0322

Moon 6823-07-01 20:52 G 4213291.30 4213291.37 4213291.44 0.2664 0.2317

Earth 6823-07-01 22:19 G 4213291.35 4213291.43 4213291.51 0.2662 0.2243 *

Earth 6827-01-06 21:36 G 4214576.29 4214576.40 4214576.51 0.2673 0.0460

Moon 6827-01-06 22:19 G 4214576.32 4214576.43 4214576.54 0.2670 0.0536 *

Mars 6827-08-08 09:36 G 4214789.73 4214789.90 4214790.06 0.1651 0.0237

Jupiter 6827-09-25 23:16 G 4214838.35 4214838.47 4214838.59 0.0542 0.0226

Jupiter 6827-12-24 10:19 G 4214927.85 4214927.93 4214928.01 0.0542 0.0431

Saturn 6828-06-13 05:16 G 4215099.64 4215099.72 4215099.81 0.0277 0.0224

Mars 6828-06-19 05:16 G 4215105.61 4215105.72 4215105.82 0.1877 0.0823

Saturn 6828-09-09 18:28 G 4215188.14 4215188.27 4215188.40 0.0277 0.0113

Saturn 6828-12-07 07:26 G 4215276.66 4215276.81 4215276.95 0.0278 0.0008

Saturn 6829-03-05 19:55 G 4215365.20 4215365.33 4215365.46 0.0278 0.0107

Saturn 6829-06-02 08:38 G 4215453.77 4215453.86 4215453.94 0.0279 0.0214

Venus 6831-08-01 22:04 G 4216244.34 4216244.42 4216244.50 0.3680 0.2519

Venus 6833-02-13 10:48 G 4216805.88 4216805.95 4216806.02 0.3691 0.3066

Jupiter 6833-08-09 21:50 G 4216983.35 4216983.41 4216983.48 0.0486 0.0447

Jupiter 6833-11-07 20:09 G 4217073.18 4217073.34 4217073.50 0.0486 0.0164

Moon 6836-07-04 02:09 G 4218042.45 4218042.59 4218042.74 0.2667 0.0217

Earth 6836-07-04 02:52 G 4218042.47 4218042.62 4218042.77 0.2660 0.0369 *

Mars 6836-12-28 11:31 G 4218219.83 4218219.98 4218220.14 0.1646 0.0538

Venus 6837-02-14 15:36 G 4218268.04 4218268.15 4218268.25 0.3681 0.1157

Mars	**6837-11-09 13:26**	**G**	**4218535.94**	**4218536.06**	**4218536.17**	**0.1883**	**0.0109**
Venus	**6838-08-30 12:57**	**G**	**4218829.90**	**4218830.04**	**4218830.17**	**0.3690**	**0.0611**
Jupiter	**6839-07-15 01:55**	**G**	**4219148.49**	**4219148.58**	**4219148.67**	**0.0542**	**0.0392**
Jupiter	**6839-10-12 13:26**	**G**	**4219237.95**	**4219238.06**	**4219238.17**	**0.0542**	**0.0273**
Earth	**6840-01-09 15:36**	**G**	**4219327.08**	**4219327.15**	**4219327.23**	**0.2674**	**0.1887**
Moon	**6840-01-09 16:04**	**G**	**4219327.09**	**4219327.17**	**4219327.25**	**0.2669**	**0.1907** *
Saturn	**6842-07-05 13:55**	**G**	**4220235.03**	**4220235.08**	**4220235.15**	**0.0283**	**0.0260**
Venus	**6842-08-31 08:52**	**G**	**4220291.76**	**4220291.87**	**4220291.97**	**0.3681**	**0.0226**
Saturn	**6842-10-02 08:38**	**G**	**4220323.72**	**4220323.86**	**4220324.02**	**0.0282**	**0.0125**
Saturn	**6842-12-30 03:50**	**G**	**4220412.49**	**4220412.66**	**4220412.83**	**0.0282**	**0.0012**
Saturn	**6843-03-28 23:02**	**G**	**4220501.32**	**4220501.46**	**4220501.61**	**0.0281**	**0.0151**
Venus	**6844-03-15 15:36**	**G**	**4220854.03**	**4220854.15**	**4220854.26**	**0.3689**	**0.1997**
Jupiter	**6845-08-26 20:09**	**G**	**4221383.17**	**4221383.34**	**4221383.51**	**0.0486**	**0.0013**
Mars	**6846-05-20 14:09**	**G**	**4221649.99**	**4221650.09**	**4221650.19**	**0.1641**	**0.1270**
Earth	**6847-01-02 13:55**	**G**	**4221877.01**	**4221877.08**	**4221877.14**	**0.2670**	**0.2157**
Moon	**6847-01-02 14:09**	**G**	**4221877.02**	**4221877.09**	**4221877.17**	**0.2675**	**0.2037** *
Mars	**6847-04-01 21:07**	**G**	**4221966.27**	**4221966.38**	**4221966.49**	**0.1889**	**0.0678**
Venus	**6848-03-16 01:55**	**G**	**4222315.48**	**4222315.58**	**4222315.68**	**0.3682**	**0.1464**
Uranus	**6849-01-09 22:19**	**G**	**4222615.37**	**4222615.43**	**4222615.52**	**0.0145**	**0.0130**
Uranus	**6849-04-08 05:45**	**G**	**4222703.62**	**4222703.74**	**4222703.88**	**0.0144**	**0.0102**
Uranus	**6849-07-05 13:11**	**G**	**4222791.90**	**4222792.05**	**4222792.21**	**0.0144**	**0.0073**
Uranus	**6849-10-01 20:38**	**G**	**4222880.19**	**4222880.36**	**4222880.54**	**0.0144**	**0.0045**
Uranus	**6849-12-29 04:19**	**G**	**4222968.50**	**4222968.68**	**4222968.86**	**0.0144**	**0.0016**
Uranus	**6850-03-27 11:45**	**G**	**4223056.81**	**4223056.99**	**4223057.17**	**0.0144**	**0.0012**
Uranus	**6850-06-23 19:11**	**G**	**4223145.13**	**4223145.30**	**4223145.48**	**0.0144**	**0.0041**
Uranus	**6850-09-20 02:38**	**G**	**4223233.46**	**4223233.61**	**4223233.78**	**0.0144**	**0.0070**
Uranus	**6850-12-17 10:19**	**G**	**4223321.81**	**4223321.93**	**4223322.07**	**0.0144**	**0.0099**
Uranus	**6851-03-15 18:00**	**G**	**4223410.18**	**4223410.25**	**4223410.34**	**0.0144**	**0.0128**
Jupiter	**6851-07-31 15:50**	**G**	**4223548.03**	**4223548.16**	**4223548.29**	**0.0541**	**0.0100**
Venus	**6853-09-29 18:43**	**G**	**4224339.21**	**4224339.28**	**4224339.35**	**0.3683**	**0.2712**

Mars	6856-08-22 04:48 G	4225396.63	4225396.70	4225396.78	0.1895	0.1460	
Jupiter	6857-06-14 20:09 G	4225693.18	4225693.34	4225693.50	0.0486	0.0142	
Jupiter	6857-09-12 19:26 G	4225783.30	4225783.31	4225783.32	0.0486	0.0485	
Mars	6857-09-16 08:09 G	4225786.72	4225786.84	4225786.96	0.1656	0.1116	
Saturn	6857-10-31 07:40 G	4225831.77	4225831.82	4225831.89	0.0277	0.0251	
Saturn	6858-01-27 20:52 G	4225920.25	4225920.37	4225920.50	0.0278	0.0139	
Saturn	6858-04-26 09:50 G	4226008.77	4226008.91	4226009.06	0.0278	0.0029	
Saturn	6858-07-23 22:48 G	4226097.31	4226097.45	4226097.58	0.0279	0.0082	
Mars	6858-07-28 20:52 G	4226102.32	4226102.37	4226102.43	0.1870	0.1605	
Saturn	6858-10-20 11:16 G	4226185.87	4226185.97	4226186.07	0.0279	0.0190	
Earth	6860-01-05 08:09 G	4226627.73	4226627.84	4226627.95	0.2671	0.0689	
Moon	6860-01-05 08:52 G	4226627.76	4226627.87	4226627.98	0.2674	0.0644	*
Jupiter	6863-05-19 18:14 G	4227858.13	4227858.26	4227858.40	0.0542	0.0072	
Mars	6867-02-06 09:50 G	4229216.75	4229216.91	4229217.07	0.1651	0.0313	
Mars	6867-12-19 05:16 G	4229532.62	4229532.72	4229532.82	0.1877	0.0897	
Jupiter	6869-04-02 19:40 G	4230003.19	4230003.32	4230003.46	0.0486	0.0298	
Jupiter	6869-07-01 18:28 G	4230093.14	4230093.27	4230093.40	0.0486	0.0320	
Moon	6869-07-02 03:21 G	4230093.54	4230093.64	4230093.74	0.2666	0.1969	
Earth	6869-07-02 04:19 G	4230093.57	4230093.68	4230093.80	0.2662	0.1739	*
Saturn	6871-11-22 16:33 G	4230967.18	4230967.19	4230967.21	0.0283	0.0282	
Saturn	6872-02-19 11:16 G	4231055.83	4231055.97	4231056.11	0.0282	0.0148	
Saturn	6872-05-18 06:00 G	4231144.59	4231144.75	4231144.92	0.0282	0.0014	
Saturn	6872-08-15 01:26 G	4231233.40	4231233.56	4231233.71	0.0281	0.0128	
Saturn	6872-11-11 20:52 G	4231322.32	4231322.37	4231322.42	0.0281	0.0268	
Earth	6873-01-07 02:23 G	4231378.50	4231378.60	4231378.71	0.2673	0.0762	
Moon	6873-01-07 03:07 G	4231378.52	4231378.63	4231378.74	0.2669	0.0890	*
Jupiter	6875-03-07 21:07 G	4232168.25	4232168.38	4232168.50	0.0542	0.0238	
Jupiter	6875-06-05 08:09 G	4232257.76	4232257.84	4232257.92	0.0542	0.0421	
Mars	6876-06-28 12:14 G	4232646.86	4232647.01	4232647.17	0.1646	0.0444	
Mars	6877-05-10 13:26 G	4232962.94	4232963.06	4232963.18	0.1883	0.0161	

Jupiter 6881-01-19 20:09 G 4234313.28 4234313.34 4234313.41 0.0485 0.0443

Jupiter 6881-04-19 18:14 G 4234403.10 4234403.26 4234403.43 0.0486 0.0167

Moon 6882-07-05 08:38 G 4234844.72 4234844.86 4234845.00 0.2666 0.0919

Earth 6882-07-05 09:07 G 4234844.74 4234844.88 4234845.02 0.2660 0.0884 *

Venus 6882-08-23 02:23 G 4234893.57 4234893.60 4234893.63 0.3680 0.3474

Mars 6885-11-18 14:38 G 4236077.01 4236077.11 4236077.22 0.1641 0.1187

Earth 6886-01-09 20:38 G 4236129.29 4236129.36 4236129.42 0.2674 0.2186

Moon 6886-01-09 20:38 G 4236129.30 4236129.36 4236129.43 0.2668 0.2202 *

Mars 6886-09-30 21:07 G 4236393.27 4236393.38 4236393.50 0.1889 0.0605

Jupiter 6886-12-25 00:00 G 4236478.41 4236478.50 4236478.59 0.0542 0.0398

Jupiter 6887-03-24 11:31 G 4236567.87 4236567.98 4236568.10 0.0542 0.0269

Saturn 6887-06-16 22:33 G 4236652.33 4236652.44 4236652.56 0.0277 0.0174

Saturn 6887-09-13 11:31 G 4236740.85 4236740.98 4236741.12 0.0277 0.0064

Saturn 6887-12-11 00:28 G 4236829.38 4236829.52 4236829.66 0.0278 0.0047

Venus 6888-03-07 19:55 G 4236917.24 4236917.33 4236917.43 0.3680 0.2084

Saturn 6888-03-08 12:57 G 4236917.93 4236918.04 4236918.16 0.0278 0.0155

Saturn 6888-06-05 01:11 G 4237006.52 4237006.55 4237006.61 0.0279 0.0262

Venus 6889-09-20 11:02 G 4237478.85 4237478.96 4237479.06 0.3690 0.2328

Uranus 6892-01-16 06:14 G 4238326.72 4238326.76 4238326.81 0.0134 0.0127

Uranus 6892-04-13 09:50 G 4238414.83 4238414.91 4238414.98 0.0134 0.0109

Uranus 6892-07-10 12:57 G 4238502.95 4238503.04 4238503.15 0.0134 0.0092

Uranus 6892-10-06 16:33 G 4238591.07 4238591.19 4238591.30 0.0134 0.0074

Earth 6893-01-02 18:43 G 4238679.20 4238679.28 4238679.36 0.2670 0.1844

Uranus 6893-01-02 19:55 G 4238679.20 4238679.33 4238679.45 0.0134 0.0057 *

Moon 6893-01-02 19:11 G 4238679.22 4238679.30 4238679.38 0.2676 0.1844 *

Jupiter 6893-02-05 18:00 G 4238713.08 4238713.25 4238713.43 0.0486 0.0015

Uranus 6893-03-31 23:02 G 4238767.34 4238767.46 4238767.60 0.0134 0.0041

Uranus 6893-06-28 02:38 G 4238855.47 4238855.61 4238855.74 0.0134 0.0023

Venus 6893-09-21 13:26 G 4238940.95 4238941.06 4238941.17 0.3681 0.0738

Uranus 6893-09-24 06:00 G 4238943.61 4238943.75 4238943.88 0.0134 0.0006

Uranus 6893-12-21 09:07 G 4239031.75 4239031.88 4239032.02 0.0134 0.0013

Uranus 6894-03-19 12:28 G 4239119.89 4239120.02 4239120.16 0.0134 0.0029

Uranus 6894-06-15 15:50 G 4239208.03 4239208.16 4239208.29 0.0135 0.0047

Uranus 6894-09-11 18:57 G 4239296.18 4239296.29 4239296.41 0.0135 0.0064

Uranus 6894-12-08 22:19 G 4239384.32 4239384.43 4239384.54 0.0135 0.0081

Uranus 6895-03-07 01:26 G 4239472.47 4239472.56 4239472.66 0.0135 0.0098

Venus 6895-04-06 13:11 G 4239502.91 4239503.05 4239503.19 0.3689 0.0170

Uranus 6895-06-03 04:33 G 4239560.63 4239560.69 4239560.77 0.0135 0.0115

Uranus 6895-08-30 07:55 G 4239648.81 4239648.83 4239648.86 0.0135 0.0132

Mars 6896-02-21 04:48 G 4239823.62 4239823.70 4239823.78 0.1895 0.1386

Neptune 6896-03-22 18:00 G 4239854.20 4239854.25 4239854.34 0.0088 0.0081

Neptune 6896-06-18 21:07 G 4239942.28 4239942.38 4239942.48 0.0088 0.0072

Neptune 6896-09-14 23:31 G 4240030.38 4240030.48 4240030.61 0.0088 0.0064

Neptune 6896-12-12 02:38 G 4240118.47 4240118.61 4240118.74 0.0088 0.0055

Neptune 6897-03-10 05:02 G 4240206.57 4240206.71 4240206.87 0.0088 0.0047

Mars 6897-03-17 08:38 G 4240213.76 4240213.86 4240213.98 0.1656 0.1206

Neptune 6897-06-06 08:09 G 4240294.68 4240294.84 4240295.00 0.0088 0.0038

Neptune 6897-09-02 10:33 G 4240382.79 4240382.94 4240383.12 0.0088 0.0030

Neptune 6897-11-29 13:40 G 4240470.90 4240471.07 4240471.24 0.0088 0.0021

Mars 6898-01-26 21:07 G 4240529.33 4240529.38 4240529.42 0.1870 0.1679

Neptune 6898-02-25 16:19 G 4240559.01 4240559.18 4240559.36 0.0088 0.0013

Neptune 6898-05-24 19:11 G 4240647.12 4240647.30 4240647.48 0.0088 0.0004

Neptune 6898-08-20 22:04 G 4240735.24 4240735.42 4240735.60 0.0088 0.0005

Neptune 6898-11-17 00:43 G 4240823.36 4240823.53 4240823.71 0.0088 0.0014

Jupiter 6899-01-10 14:38 G 4240877.98 4240878.11 4240878.24 0.0542 0.0111

Neptune 6899-02-13 03:36 G 4240911.48 4240911.65 4240911.83 0.0088 0.0022

Venus 6899-04-07 06:43 G 4240964.67 4240964.78 4240964.89 0.3682 0.0591

Neptune 6899-05-12 06:28 G 4240999.60 4240999.77 4240999.94 0.0088 0.0031

Neptune 6899-08-08 09:07 G 4241087.73 4241087.88 4241088.05 0.0088 0.0040

Neptune 6899-11-04 12:00 G 4241175.86 4241176.00 4241176.16 0.0088 0.0049

Neptune 6900-01-31 14:38 G 4241264.00 4241264.11 4241264.27 0.0088 0.0058

Neptune 6900-04-29 18:00 G 4241352.13 4241352.25 4241352.37 0.0088 0.0066

Neptune 6900-07-26 20:52 G 4241440.28 4241440.37 4241440.46 0.0088 0.0075

Venus 6900-10-21 16:04 G 4241527.08 4241527.17 4241527.26 0.3688 0.2818

Neptune 6900-10-22 23:45 G 4241528.45 4241528.49 4241528.54 0.0088 0.0084

Saturn 6901-07-09 09:21 G 4241787.78 4241787.89 4241788.01 0.0283 0.0199

Saturn 6901-10-06 04:19 G 4241876.51 4241876.68 4241876.84 0.0282 0.0064

Saturn 6902-01-02 23:16 G 4241965.31 4241965.47 4241965.64 0.0281 0.0074

Saturn 6902-04-01 18:43 G 4242054.17 4242054.28 4242054.39 0.0281 0.0214

Venus 6904-10-21 23:45 G 4242988.39 4242988.49 4242988.58 0.3682 0.1860

Jupiter 6904-11-25 18:14 G 4243023.10 4243023.26 4243023.42 0.0486 0.0140

Earth 6906-01-06 13:11 G 4243429.93 4243430.05 4243430.16 0.2672 0.0389

Moon 6906-01-06 13:55 G 4243429.96 4243430.08 4243430.19 0.2672 0.0231 *

Mars 6906-08-08 10:48 G 4243643.79 4243643.95 4243644.10 0.1651 0.0418

Mars 6907-06-20 05:16 G 4243959.62 4243959.72 4243959.82 0.1876 0.0965

Venus 6910-05-07 16:33 G 4245012.14 4245012.19 4245012.25 0.3683 0.3099

Jupiter 6910-10-30 17:02 G 4245188.08 4245188.21 4245188.35 0.0542 0.0065

Pluto 6913-07-10 17:02 G 4246172.17 4246172.21 4246172.29 0.0071 0.0064

Pluto 6913-10-06 18:00 G 4246260.18 4246260.25 4246260.35 0.0071 0.0055

Pluto 6914-01-02 18:57 G 4246348.19 4246348.29 4246348.40 0.0071 0.0046

Pluto 6914-03-31 19:40 G 4246436.21 4246436.32 4246436.45 0.0071 0.0037

Pluto 6914-06-27 20:23 G 4246524.24 4246524.35 4246524.49 0.0071 0.0029

Pluto 6914-09-23 21:36 G 4246612.26 4246612.40 4246612.53 0.0072 0.0019

Pluto 6914-12-20 22:19 G 4246700.29 4246700.43 4246700.57 0.0072 0.0010

Pluto 6915-03-18 23:02 G 4246788.33 4246788.46 4246788.60 0.0072 0.0003

Pluto 6915-06-15 00:00 G 4246876.36 4246876.50 4246876.64 0.0072 0.0009

Moon 6915-07-04 09:50 G 4246895.78 4246895.91 4246896.04 0.2667 0.1283

Earth 6915-07-04 10:48 G 4246895.81 4246895.95 4246896.08 0.2661 0.1225 *

Pluto 6915-09-11 00:43 G 4246964.40 4246964.53 4246964.67 0.0072 0.0018

Pluto 6915-12-08 01:40 G 4247052.44 4247052.57 4247052.70 0.0072 0.0028

Mars	6915-12-29 12:43	G	4247073.87	4247074.03	4247074.19	0.1646	0.0359
Pluto	6916-03-05 02:23	G	4247140.49	4247140.60	4247140.72	0.0072	0.0037
Pluto	6916-06-01 03:21	G	4247228.54	4247228.64	4247228.75	0.0072	0.0047
Pluto	6916-08-28 03:50	G	4247316.59	4247316.66	4247316.76	0.0073	0.0057
Jupiter	6916-09-13 18:14	G	4247333.13	4247333.26	4247333.40	0.0486	0.0292
Saturn	6916-11-04 00:43	G	4247384.44	4247384.53	4247384.63	0.0277	0.0203
Mars	6916-11-09 13:26	G	4247389.94	4247390.06	4247390.18	0.1883	0.0232
Pluto	6916-11-24 04:33	G	4247404.66	4247404.69	4247404.77	0.0073	0.0067
Jupiter	6916-12-12 17:02	G	4247423.08	4247423.21	4247423.34	0.0486	0.0328
Saturn	6917-01-31 13:55	G	4247472.94	4247473.08	4247473.21	0.0278	0.0092
Saturn	6917-04-30 02:38	G	4247561.47	4247561.61	4247561.75	0.0278	0.0019
Saturn	6917-07-27 15:21	G	4247650.02	4247650.14	4247650.27	0.0279	0.0127
Saturn	6917-10-24 03:50	G	4247738.59	4247738.66	4247738.74	0.0279	0.0235
Earth	6919-01-09 07:26	G	4248180.70	4248180.81	4248180.91	0.2673	0.1066
Moon	6919-01-09 07:55	G	4248180.73	4248180.83	4248180.93	0.2669	0.1106 *
Jupiter	6922-08-18 19:40	G	4249498.20	4249498.32	4249498.44	0.0542	0.0234
Jupiter	6922-11-16 06:43	G	4249587.70	4249587.78	4249587.86	0.0541	0.0422
Mars	6925-05-20 15:07	G	4250504.02	4250504.13	4250504.25	0.1641	0.1104
Mars	6926-04-01 21:21	G	4250820.28	4250820.39	4250820.51	0.1889	0.0521
Jupiter	6928-07-02 18:14	G	4251643.20	4251643.26	4251643.33	0.0486	0.0442
Moon	6928-07-06 15:07	G	4251647.00	4251647.13	4251647.26	0.2666	0.1293
Earth	6928-07-06 15:21	G	4251647.01	4251647.14	4251647.27	0.2659	0.1408 *
Jupiter	6928-09-30 16:19	G	4251733.02	4251733.18	4251733.35	0.0486	0.0168
Saturn	6930-11-26 11:31	G	4252519.88	4252519.98	4252520.08	0.0283	0.0224
Saturn	6931-02-23 06:14	G	4252608.60	4252608.76	4252608.92	0.0282	0.0089
Saturn	6931-05-23 01:26	G	4252697.39	4252697.56	4252697.72	0.0282	0.0049
Saturn	6931-08-19 20:38	G	4252786.24	4252786.36	4252786.49	0.0281	0.0188
Earth	6932-01-12 01:26	G	4252931.52	4252931.56	4252931.60	0.2675	0.2480
Moon	6932-01-12 01:26	G	4252931.53	4252931.56	4252931.60	0.2668	0.2502 *
Uranus	6933-01-31 06:57	G	4253316.69	4253316.79	4253316.89	0.0145	0.0119

Uranus 6933-04-29 14:09 G 4253404.96 4253405.09 4253405.24 0.0144 0.0091

Uranus 6933-07-26 21:36 G 4253493.24 4253493.40 4253493.57 0.0144 0.0063

Uranus 6933-10-23 05:02 G 4253581.54 4253581.71 4253581.89 0.0144 0.0034

Uranus 6934-01-19 12:28 G 4253669.84 4253670.02 4253670.21 0.0144 0.0007

Uranus 6934-04-17 19:55 G 4253758.16 4253758.33 4253758.52 0.0144 0.0024

Jupiter 6934-06-06 22:04 G 4253808.33 4253808.42 4253808.51 0.0543 0.0406

Uranus 6934-07-15 03:21 G 4253846.48 4253846.64 4253846.82 0.0144 0.0052

Jupiter 6934-09-04 09:36 G 4253897.78 4253897.90 4253898.02 0.0542 0.0261

Uranus 6934-10-11 11:02 G 4253934.82 4253934.96 4253935.12 0.0144 0.0081

Uranus 6935-01-07 18:28 G 4254023.17 4254023.27 4254023.40 0.0144 0.0110

Uranus 6935-04-06 02:09 G 4254111.56 4254111.59 4254111.65 0.0144 0.0139

Mars 6935-08-23 04:48 G 4254250.62 4254250.70 4254250.79 0.1895 0.1315

Mars 6936-09-16 09:21 G 4254640.79 4254640.89 4254640.99 0.1656 0.1301

Mars 6937-07-28 21:07 G 4254956.34 4254956.38 4254956.42 0.1870 0.1752

Earth 6939-01-04 23:45 G 4255481.40 4255481.49 4255481.58 0.2670 0.1537

Moon 6939-01-05 00:14 G 4255481.41 4255481.51 4255481.60 0.2675 0.1414 *

Venus 6939-03-31 00:28 G 4255566.46 4255566.52 4255566.58 0.3680 0.3027

Jupiter 6940-07-19 16:33 G 4256043.02 4256043.19 4256043.36 0.0486 0.0017

Venus 6944-10-13 18:00 G 4257590.15 4257590.25 4257590.35 0.3680 0.1655

Mars 6946-02-06 11:16 G 4258070.82 4258070.97 4258071.13 0.1651 0.0507

Saturn 6946-03-24 02:23 G 4258116.53 4258116.60 4258116.67 0.0276 0.0237

Venus 6946-04-28 11:16 G 4258151.84 4258151.97 4258152.09 0.3690 0.1595

Saturn 6946-06-20 15:21 G 4258205.02 4258205.14 4258205.27 0.0277 0.0127

Jupiter 6946-06-23 12:57 G 4258207.91 4258208.04 4258208.17 0.0542 0.0107

Saturn 6946-09-17 04:19 G 4258293.54 4258293.68 4258293.82 0.0277 0.0017

Saturn 6946-12-14 17:02 G 4258382.08 4258382.21 4258382.34 0.0278 0.0092

Mars 6946-12-19 05:16 G 4258386.63 4258386.72 4258386.82 0.1876 0.1038

Saturn 6947-03-13 05:31 G 4258470.64 4258470.73 4258470.83 0.0278 0.0199

Venus 6950-04-29 11:16 G 4259613.86 4259613.97 4259614.08 0.3681 0.0321

Venus 6951-11-12 13:40 G 4260175.93 4260176.07 4260176.20 0.3689 0.0955

Earth	6952-01-07 18:00 G	4260232.14	4260232.25	4260232.36	0.2672	0.0078	
Moon	6952-01-07 18:43 G	4260232.17	4260232.28	4260232.40	0.2671	0.0077	*
Jupiter	6952-05-07 16:19 G	4260353.02	4260353.18	4260353.35	0.0486	0.0138	
Mars	6955-06-29 13:26 G	4261500.90	4261501.06	4261501.22	0.1646	0.0264	
Venus	6955-11-13 04:33 G	4261637.58	4261637.69	4261637.79	0.3682	0.0991	
Mars	6956-05-10 13:40 G	4261816.95	4261817.07	4261817.18	0.1882	0.0316	
Venus	6957-05-28 16:33 G	4262200.18	4262200.19	4262200.21	0.3688	0.3651	
Jupiter	6958-04-11 16:04 G	4262518.04	4262518.17	4262518.30	0.0542	0.0053	
Saturn	6960-04-14 09:36 G	4263251.87	4263251.90	4263251.93	0.0283	0.0277	
Saturn	6960-07-12 04:04 G	4263340.53	4263340.67	4263340.82	0.0283	0.0144	
Saturn	6960-10-08 23:16 G	4263429.30	4263429.47	4263429.63	0.0282	0.0010	
Saturn	6961-01-05 18:14 G	4263518.12	4263518.26	4263518.42	0.0281	0.0133	
Saturn	6961-04-04 13:55 G	4263607.05	4263607.08	4263607.12	0.0281	0.0272	
Venus	6961-05-28 21:36 G	4263661.31	4263661.40	4263661.48	0.3682	0.2256	
Moon	6961-07-04 16:04 G	4263698.03	4263698.17	4263698.31	0.2667	0.0903	
Earth	6961-07-04 17:02 G	4263698.06	4263698.21	4263698.35	0.2661	0.0717	*
Jupiter	6964-02-24 16:48 G	4264663.06	4264663.20	4264663.33	0.0486	0.0286	
Jupiter	6964-05-24 15:21 G	4264753.01	4264753.14	4264753.26	0.0486	0.0332	
Mars	6964-11-18 15:50 G	4264931.04	4264931.16	4264931.29	0.1641	0.1011	
Earth	6965-01-09 12:14 G	4264982.91	4264983.01	4264983.10	0.2673	0.1361	
Moon	6965-01-09 12:43 G	4264982.94	4264983.03	4264983.12	0.2669	0.1485	*
Mars	6965-09-30 21:21 G	4265247.27	4265247.39	4265247.50	0.1889	0.0458	
Venus	6966-12-12 14:23 G	4265685.07	4265685.10	4265685.13	0.3683	0.3484	
Jupiter	6970-01-28 18:28 G	4266828.15	4266828.27	4266828.39	0.0542	0.0224	
Jupiter	6970-04-28 05:31 G	4266917.65	4266917.73	4266917.81	0.0541	0.0432	
Earth	6974-07-07 21:36 G	4268449.30	4268449.40	4268449.51	0.2659	0.1934	
Moon	6974-07-07 21:50 G	4268449.32	4268449.41	4268449.50	0.2666	0.2042	*
Mars	6975-02-21 05:02 G	4268677.62	4268677.71	4268677.80	0.1895	0.1230	
Saturn	6975-08-11 04:04 G	4268848.64	4268848.67	4268848.70	0.0277	0.0270	
Saturn	6975-11-07 17:02 G	4268937.10	4268937.21	4268937.33	0.0277	0.0160	

Jupiter	6975-12-13 16:48 G	4268973.13	4268973.20	4268973.28	0.0486	0.0435
Saturn	6976-02-04 06:14 G	4269025.62	4269025.76	4269025.90	0.0278	0.0049
Uranus	6976-02-06 13:55 G	4269028.03	4269028.08	4269028.15	0.0134	0.0120
Jupiter	6976-03-12 15:07 G	4269062.97	4269063.13	4269063.29	0.0486	0.0176
Mars	6976-03-17 10:04 G	4269067.84	4269067.92	4269068.01	0.1656	0.1397
Saturn	6976-05-02 18:57 G	4269114.15	4269114.29	4269114.43	0.0278	0.0061
Uranus	6976-05-04 17:31 G	4269116.14	4269116.23	4269116.32	0.0134	0.0102
Saturn	6976-07-30 07:26 G	4269202.71	4269202.81	4269202.93	0.0279	0.0169
Uranus	6976-07-31 20:52 G	4269204.27	4269204.37	4269204.48	0.0134	0.0085
Saturn	6976-10-26 19:55 G	4269291.32	4269291.33	4269291.35	0.0279	0.0276
Uranus	6976-10-28 00:14 G	4269292.39	4269292.51	4269292.63	0.0134	0.0067
Uranus	6977-01-24 03:36 G	4269380.52	4269380.65	4269380.78	0.0134	0.0050
Mars	6977-01-26 21:07 G	4269383.35	4269383.38	4269383.40	0.1870	0.1818
Uranus	6977-04-22 06:57 G	4269468.66	4269468.79	4269468.93	0.0134	0.0033
Uranus	6977-07-19 10:19 G	4269556.79	4269556.93	4269557.07	0.0134	0.0016
Uranus	6977-10-15 13:40 G	4269644.93	4269645.07	4269645.21	0.0134	0.0002
Uranus	6978-01-11 17:02 G	4269733.07	4269733.21	4269733.34	0.0134	0.0019
Uranus	6978-04-09 20:09 G	4269821.21	4269821.34	4269821.48	0.0134	0.0036
Neptune	6978-07-03 07:55 G	4269905.79	4269905.83	4269905.89	0.0089	0.0084
Uranus	6978-07-06 23:31 G	4269909.36	4269909.48	4269909.61	0.0134	0.0053
Neptune	6978-09-29 09:21 G	4269993.84	4269993.89	4269993.98	0.0089	0.0077
Uranus	6978-10-03 02:38 G	4269997.50	4269997.61	4269997.73	0.0135	0.0071
Neptune	6978-12-26 11:16 G	4270081.89	4270081.97	4270082.07	0.0089	0.0069
Uranus	6978-12-30 06:00 G	4270085.65	4270085.75	4270085.86	0.0135	0.0088
Neptune	6979-03-24 12:57 G	4270169.95	4270170.04	4270170.15	0.0089	0.0061
Uranus	6979-03-28 09:07 G	4270173.81	4270173.88	4270173.97	0.0135	0.0105
Neptune	6979-06-20 14:38 G	4270258.01	4270258.11	4270258.24	0.0089	0.0054
Uranus	6979-06-24 12:14 G	4270261.97	4270262.01	4270262.08	0.0135	0.0122
Neptune	6979-09-16 16:19 G	4270346.07	4270346.18	4270346.32	0.0089	0.0047
Neptune	6979-12-13 18:14 G	4270434.13	4270434.26	4270434.39	0.0089	0.0038

Neptune 6980-03-10 19:40 G 4270522.20 4270522.32 4270522.47 0.0089 0.0032

Neptune 6980-06-06 21:36 G 4270610.26 4270610.40 4270610.54 0.0089 0.0024

Neptune 6980-09-02 23:16 G 4270698.33 4270698.47 4270698.61 0.0089 0.0016

Neptune 6980-11-30 00:57 G 4270786.40 4270786.54 4270786.68 0.0089 0.0009

Neptune 6981-02-26 02:38 G 4270874.47 4270874.61 4270874.75 0.0089 0.0001

Neptune 6981-05-25 04:19 G 4270962.54 4270962.68 4270962.82 0.0089 0.0006

Neptune 6981-08-21 05:45 G 4271050.61 4271050.74 4271050.89 0.0089 0.0014

Jupiter 6981-11-16 20:52 G 4271138.28 4271138.37 4271138.46 0.0542 0.0397

Neptune 6981-11-17 07:26 G 4271138.68 4271138.81 4271138.95 0.0089 0.0021

Neptune 6982-02-13 09:07 G 4271226.75 4271226.88 4271227.02 0.0089 0.0028

Jupiter 6982-02-14 08:23 G 4271227.74 4271227.85 4271227.97 0.0542 0.0268

Neptune 6982-05-12 10:33 G 4271314.82 4271314.94 4271315.08 0.0089 0.0036

Neptune 6982-08-08 12:14 G 4271402.89 4271403.01 4271403.14 0.0089 0.0043

Neptune 6982-11-04 13:55 G 4271490.97 4271491.08 4271491.20 0.0089 0.0050

Neptune 6983-01-31 15:36 G 4271579.04 4271579.15 4271579.26 0.0089 0.0057

Neptune 6983-04-29 17:02 G 4271667.12 4271667.21 4271667.31 0.0089 0.0064

Neptune 6983-07-26 18:28 G 4271755.20 4271755.27 4271755.37 0.0089 0.0072

Neptune 6983-10-22 20:09 G 4271843.28 4271843.34 4271843.41 0.0089 0.0079

Neptune 6984-01-18 21:50 G 4271931.38 4271931.41 4271931.45 0.0089 0.0086

Earth 6985-01-05 04:33 G 4272283.59 4272283.69 4272283.79 0.2670 0.1226

Moon 6985-01-05 05:16 G 4272283.62 4272283.72 4272283.82 0.2674 0.1176 *

Mars 6985-08-07 11:45 G 4272497.84 4272497.99 4272498.14 0.1651 0.0593

Mars 6986-06-19 05:31 G 4272813.64 4272813.73 4272813.82 0.1876 0.1119

Jupiter 6987-12-30 14:38 G 4273372.94 4273373.11 4273373.29 0.0486 0.0025

Saturn 6989-11-29 05:45 G 4274072.61 4274072.74 4274072.88 0.0283 0.0172

Saturn 6990-02-26 00:43 G 4274161.36 4274161.53 4274161.70 0.0282 0.0036

Saturn 6990-05-25 19:55 G 4274250.17 4274250.33 4274250.49 0.0282 0.0102

Saturn 6990-08-22 15:21 G 4274339.06 4274339.14 4274339.23 0.0281 0.0243

Jupiter 6993-12-03 11:02 G 4275537.83 4275537.96 4275538.09 0.0542 0.0102

Mars 6994-12-28 13:55 G 4275927.92 4275928.08 4275928.24 0.1646 0.0179

Venus	**6995-11-04 22:33**	**G**	**4276239.36**	**4276239.44**	**4276239.51**	**0.3680**	**0.2592**	
Mars	**6995-11-09 13:26**	**G**	**4276243.95**	**4276244.06**	**4276244.18**	**0.1882**	**0.0385**	
Venus	**6997-05-19 09:36**	**G**	**4276800.84**	**4276800.90**	**4276800.96**	**0.3690**	**0.3254**	
Earth	**6998-01-07 22:48**	**G**	**4277034.34**	**4277034.45**	**4277034.57**	**0.2672**	**0.0255**	
Moon	**6998-01-07 23:45**	**G**	**4277034.38**	**4277034.49**	**4277034.60**	**0.2671**	**0.0408**	*
Pluto	**6999-03-03 04:04**	**G**	**4277453.59**	**4277453.67**	**4277453.76**	**0.0073**	**0.0064**	
Pluto	**6999-05-30 06:14**	**G**	**4277541.63**	**4277541.76**	**4277541.89**	**0.0073**	**0.0051**	
Pluto	**6999-08-26 08:09**	**G**	**4277629.69**	**4277629.84**	**4277630.01**	**0.0072**	**0.0038**	
Jupiter	**6999-10-18 15:07**	**G**	**4277682.96**	**4277683.13**	**4277683.29**	**0.0485**	**0.0128**	
Pluto	**6999-11-22 10:19**	**G**	**4277717.76**	**4277717.93**	**4277718.11**	**0.0072**	**0.0026**	
Pluto	**7000-02-18 12:14**	**G**	**4277805.84**	**4277806.01**	**4277806.20**	**0.0072**	**0.0014**	
Pluto	**7000-05-17 14:38**	**G**	**4277893.92**	**4277894.11**	**4277894.29**	**0.0072**	**0.0001**	
Pluto	**7000-08-13 16:33**	**G**	**4277982.01**	**4277982.19**	**4277982.37**	**0.0072**	**0.0012**	
Pluto	**7000-11-09 18:28**	**G**	**4278070.10**	**4278070.27**	**4278070.45**	**0.0072**	**0.0025**	

8TH MILLENNIUM CE

This is a list of transits of Mercury in the 8th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Pluto	**7001-02-05 20:23**	**G**	**4278158.20**	**4278158.35**	**4278158.52**	**0.0072**	**0.0037**	
Pluto	**7001-05-04 22:19**	**G**	**4278246.31**	**4278246.43**	**4278246.58**	**0.0072**	**0.0049**	
Venus	**7001-05-21 15:50**	**G**	**4278263.06**	**4278263.16**	**4278263.27**	**0.3681**	**0.1231**	
Pluto	**7001-08-01 00:28**	**G**	**4278334.43**	**4278334.52**	**4278334.62**	**0.0071**	**0.0061**	
Venus	**7002-12-04 11:31**	**G**	**4278824.84**	**4278824.98**	**4278825.11**	**0.3689**	**0.0826**	

Mars 7004-05-20 16:33 G 4279358.06 4279358.19 4279358.32 0.1641 0.0921

Saturn 7005-03-27 18:57 G 4279669.19 4279669.29 4279669.40 0.0276 0.0192

Mars 7005-04-01 21:36 G 4279674.28 4279674.40 4279674.51 0.1889 0.0376

Saturn 7005-06-24 07:55 G 4279757.70 4279757.83 4279757.97 0.0277 0.0082

Saturn 7005-09-20 20:52 G 4279846.23 4279846.37 4279846.51 0.0277 0.0027

Jupiter 7005-09-22 14:23 G 4279847.96 4279848.10 4279848.23 0.0543 0.0057

Saturn 7005-12-18 09:21 G 4279934.77 4279934.89 4279935.02 0.0278 0.0135

Saturn 7006-03-16 21:50 G 4280023.35 4280023.41 4280023.48 0.0278 0.0241

Venus 7006-12-05 09:21 G 4280286.78 4280286.89 4280287.00 0.3681 0.0160

Moon 7007-07-06 22:19 G 4280500.29 4280500.43 4280500.58 0.2667 0.0273

Earth 7007-07-06 23:16 G 4280500.32 4280500.47 4280500.62 0.2661 0.0196 *

Venus 7008-06-19 14:09 G 4280848.96 4280849.09 4280849.21 0.3689 0.1755

Earth 7011-01-11 17:02 G 4281785.13 4281785.21 4281785.30 0.2673 0.1664

Moon 7011-01-11 17:31 G 4281785.14 4281785.23 4281785.32 0.2668 0.1652 *

Jupiter 7011-08-07 15:07 G 4281992.99 4281993.13 4281993.27 0.0485 0.0280

Jupiter 7011-11-05 13:40 G 4282082.95 4282083.07 4282083.19 0.0486 0.0338

Venus 7012-06-20 02:23 G 4282310.50 4282310.60 4282310.70 0.3682 0.1395

Mars 7014-08-23 05:02 G 4283104.62 4283104.71 4283104.81 0.1894 0.1160

Mars 7015-09-17 10:48 G 4283494.88 4283494.95 4283495.02 0.1656 0.1494

Uranus 7016-11-25 07:11 G 4283929.76 4283929.80 4283929.85 0.0145 0.0139

Uranus 7017-02-21 14:09 G 4284017.99 4284018.09 4284018.22 0.0145 0.0112

Uranus 7017-05-20 21:36 G 4284106.26 4284106.40 4284106.56 0.0145 0.0084

Jupiter 7017-07-11 17:31 G 4284158.10 4284158.23 4284158.35 0.0542 0.0215

Uranus 7017-08-17 05:02 G 4284194.55 4284194.71 4284194.89 0.0144 0.0055

Jupiter 7017-10-09 04:33 G 4284247.62 4284247.69 4284247.77 0.0542 0.0444

Uranus 7017-11-13 12:43 G 4284282.85 4284283.03 4284283.21 0.0144 0.0027

Venus 7018-01-03 19:26 G 4284334.23 4284334.31 4284334.38 0.3683 0.2649

Earth 7018-01-04 15:07 G 4284335.08 4284335.13 4284335.18 0.2669 0.2393

Moon 7018-01-04 15:21 G 4284335.09 4284335.14 4284335.19 0.2676 0.2357 *

Uranus 7018-02-09 20:09 G 4284371.16 4284371.34 4284371.52 0.0144 0.0002

Uranus	7018-05-09 03:36	G	4284459.47	4284459.65	4284459.83	0.0144	0.0031
Uranus	7018-08-05 11:16	G	4284547.80	4284547.97	4284548.13	0.0144	0.0059
Uranus	7018-11-01 18:43	G	4284636.14	4284636.28	4284636.43	0.0144	0.0088
Uranus	7019-01-29 02:23	G	4284724.50	4284724.60	4284724.71	0.0144	0.0117
Saturn	7019-04-19 03:36	G	4284804.55	4284804.65	4284804.75	0.0283	0.0227
Saturn	7019-07-16 22:19	G	4284893.27	4284893.43	4284893.59	0.0282	0.0092
Saturn	7019-10-13 17:16	G	4284982.05	4284982.22	4284982.39	0.0282	0.0045
Saturn	7020-01-10 12:28	G	4285070.90	4285071.02	4285071.16	0.0281	0.0185
Earth	7020-07-09 04:04	G	4285251.61	4285251.67	4285251.72	0.2659	0.2459
Moon	7020-07-09 04:19	G	4285251.63	4285251.68	4285251.74	0.2666	0.2448 *
Jupiter	7023-05-26 15:36	G	4286303.07	4286303.15	4286303.23	0.0486	0.0426
Jupiter	7023-08-24 13:40	G	4286392.91	4286393.07	4286393.23	0.0486	0.0184
Mars	7025-02-06 12:28	G	4286924.88	4286925.02	4286925.17	0.1651	0.0692
Mars	7025-12-19 05:31	G	4287240.64	4287240.73	4287240.82	0.1876	0.1182
Jupiter	7029-04-29 19:55	G	4288468.24	4288468.33	4288468.42	0.0542	0.0385
Jupiter	7029-07-28 07:26	G	4288557.70	4288557.81	4288557.92	0.0542	0.0280
Earth	7031-01-07 09:36	G	4289085.79	4289085.90	4289086.00	0.2670	0.0922
Moon	7031-01-07 10:19	G	4289085.82	4289085.93	4289086.03	0.2673	0.0815 *
Mars	7034-06-29 14:38	G	4290354.95	4290355.11	4290355.27	0.1646	0.0088
Saturn	7034-08-14 20:09	G	4290401.27	4290401.34	4290401.43	0.0277	0.0228
Saturn	7034-11-11 09:21	G	4290489.76	4290489.89	4290490.02	0.0277	0.0117
Saturn	7035-02-07 22:19	G	4290578.29	4290578.43	4290578.57	0.0278	0.0008
Saturn	7035-05-07 11:02	G	4290666.83	4290666.96	4290667.09	0.0278	0.0101
Mars	7035-05-11 13:40	G	4290670.96	4290671.07	4290671.18	0.1883	0.0457
Jupiter	7035-06-12 13:26	G	4290702.89	4290703.06	4290703.24	0.0486	0.0033
Saturn	7035-08-03 23:31	G	4290755.39	4290755.48	4290755.57	0.0279	0.0208
Moon	7040-07-03 23:45	G	4292551.45	4292551.49	4292551.54	0.2667	0.2496
Earth	7040-07-04 01:11	G	4292551.47	4292551.55	4292551.63	0.2663	0.2260 *
Jupiter	7041-05-16 10:04	G	4292867.79	4292867.92	4292868.06	0.0542	0.0116
Mars	7043-11-19 17:02	G	4293785.07	4293785.21	4293785.34	0.1641	0.0839

Earth	7044-01-10 03:50 G	4293836.55	4293836.66	4293836.77	0.2672	0.0534
Moon	7044-01-10 04:33 G	4293836.58	4293836.69	4293836.80	0.2671	0.0583 *
Mars	7044-09-30 21:36 G	4294101.28	4294101.40	4294101.52	0.1888	0.0296
Venus	7046-11-27 02:52 G	4294888.59	4294888.62	4294888.64	0.3680	0.3546
Jupiter	7047-03-31 13:40 G	4295012.90	4295013.07	4295013.23	0.0485	0.0122
Saturn	7048-09-05 04:33 G	4295536.64	4295536.69	4295536.77	0.0283	0.0260
Saturn	7048-12-02 23:16 G	4295625.33	4295625.47	4295625.63	0.0283	0.0125
Saturn	7049-03-01 18:28 G	4295714.10	4295714.27	4295714.44	0.0282	0.0013
Saturn	7049-05-29 13:40 G	4295802.93	4295803.07	4295803.22	0.0282	0.0152
Venus	7052-06-11 20:23 G	4296912.26	4296912.35	4296912.44	0.3680	0.2150
Jupiter	7053-03-04 12:28 G	4297177.89	4297178.02	4297178.16	0.0543	0.0061
Mars	7053-04-10 19:55 G	4297215.29	4297215.33	4297215.38	0.1637	0.1555
Moon	7053-07-07 05:02 G	4297302.56	4297302.71	4297302.86	0.2667	0.0250
Earth	7053-07-07 05:31 G	4297302.58	4297302.73	4297302.88	0.2661	0.0327 *
Venus	7053-12-25 09:50 G	4297473.81	4297473.91	4297474.01	0.3690	0.2523
Mars	7054-02-21 05:16 G	4297531.62	4297531.72	4297531.81	0.1894	0.1082
Mars	7055-03-18 11:16 G	4297921.93	4297921.97	4297922.02	0.1656	0.1584
Earth	7057-01-11 22:04 G	4298587.34	4298587.42	4298587.49	0.2674	0.1965
Moon	7057-01-11 22:19 G	4298587.36	4298587.43	4298587.50	0.2667	0.2057 *
Venus	7057-12-26 13:55 G	4298935.97	4298936.08	4298936.19	0.3681	0.0800
Jupiter	7059-01-17 13:55 G	4299322.94	4299323.08	4299323.23	0.0485	0.0267
Jupiter	7059-04-17 12:28 G	4299412.91	4299413.02	4299413.14	0.0486	0.0350
Venus	7059-07-11 12:00 G	4299497.86	4299498.00	4299498.13	0.3689	0.0130
Uranus	7059-12-01 18:28 G	4299641.25	4299641.27	4299641.30	0.0134	0.0130
Uranus	7060-02-27 21:50 G	4299729.34	4299729.41	4299729.49	0.0134	0.0113
Uranus	7060-05-26 01:26 G	4299817.46	4299817.56	4299817.66	0.0134	0.0095
Uranus	7060-08-22 04:33 G	4299905.59	4299905.69	4299905.81	0.0134	0.0078
Uranus	7060-11-18 08:09 G	4299993.72	4299993.84	4299993.96	0.0134	0.0060
Neptune	7060-12-19 15:50 G	4300025.11	4300025.16	4300025.25	0.0088	0.0080
Uranus	7061-02-14 11:31 G	4300081.85	4300081.98	4300082.11	0.0134	0.0043

Neptune 7061-03-17 18:57 G 4300113.19 4300113.29 4300113.39 0.0088 0.0071

Uranus 7061-05-13 14:52 G 4300169.98 4300170.12 4300170.26 0.0134 0.0026

Neptune 7061-06-13 21:21 G 4300201.28 4300201.39 4300201.53 0.0088 0.0063

Uranus 7061-08-09 18:14 G 4300258.12 4300258.26 4300258.40 0.0134 0.0008

Neptune 7061-09-10 00:00 G 4300289.38 4300289.50 4300289.66 0.0088 0.0055

Uranus 7061-11-05 21:36 G 4300346.26 4300346.40 4300346.53 0.0134 0.0009

Neptune 7061-12-07 02:52 G 4300377.48 4300377.62 4300377.78 0.0088 0.0046

Uranus 7062-02-02 00:43 G 4300434.40 4300434.53 4300434.67 0.0134 0.0027

Neptune 7062-03-05 05:31 G 4300465.59 4300465.73 4300465.91 0.0088 0.0038

Uranus 7062-05-01 04:04 G 4300522.54 4300522.67 4300522.80 0.0134 0.0043

Neptune 7062-06-01 08:38 G 4300553.70 4300553.86 4300554.03 0.0088 0.0029

Uranus 7062-07-28 07:11 G 4300610.69 4300610.80 4300610.93 0.0134 0.0061

Neptune 7062-08-28 11:31 G 4300641.81 4300641.98 4300642.15 0.0088 0.0020

Uranus 7062-10-24 10:33 G 4300698.83 4300698.94 4300699.06 0.0134 0.0078

Neptune 7062-11-24 14:09 G 4300729.92 4300730.09 4300730.27 0.0088 0.0012

Uranus 7063-01-20 13:40 G 4300786.99 4300787.07 4300787.18 0.0135 0.0095

Neptune 7063-02-20 17:02 G 4300818.03 4300818.21 4300818.39 0.0088 0.0003

Uranus 7063-04-18 17:02 G 4300875.14 4300875.21 4300875.29 0.0135 0.0112

Neptune 7063-05-19 19:40 G 4300906.15 4300906.32 4300906.50 0.0088 0.0006

Venus 7063-07-12 07:11 G 4300959.69 4300959.80 4300959.91 0.3682 0.0520

Mars 7063-07-14 12:43 G 4300962.02 4300962.03 4300962.04 0.1900 0.1883

Uranus 7063-07-15 20:09 G 4300963.31 4300963.34 4300963.39 0.0135 0.0129

Neptune 7063-08-15 22:33 G 4300994.27 4300994.44 4300994.62 0.0088 0.0014

Neptune 7063-11-12 01:26 G 4301082.39 4301082.56 4301082.73 0.0088 0.0023

Saturn 7064-01-01 22:04 G 4301133.38 4301133.42 4301133.48 0.0276 0.0260

Earth 7064-01-05 20:09 G 4301137.27 4301137.34 4301137.40 0.2669 0.2085

Moon 7064-01-05 20:23 G 4301137.28 4301137.35 4301137.42 0.2675 0.2076 *

Neptune 7064-02-08 04:04 G 4301170.51 4301170.67 4301170.84 0.0088 0.0032

Saturn 7064-03-30 11:16 G 4301221.85 4301221.97 4301222.10 0.0276 0.0149

Neptune 7064-05-06 06:57 G 4301258.64 4301258.79 4301258.96 0.0088 0.0041

Saturn 7064-06-27 00:14 G 4301310.37 4301310.51 4301310.65 0.0277 0.0040

Neptune 7064-08-02 09:36 G 4301346.77 4301346.90 4301347.06 0.0088 0.0050

Mars 7064-08-07 13:11 G 4301351.91 4301352.05 4301352.19 0.1651 0.0787

Saturn 7064-09-23 12:57 G 4301398.90 4301399.04 4301399.18 0.0277 0.0068

Neptune 7064-10-29 12:43 G 4301434.90 4301435.03 4301435.17 0.0088 0.0058

Saturn 7064-12-21 01:26 G 4301487.46 4301487.56 4301487.67 0.0278 0.0175

Jupiter 7064-12-21 15:36 G 4301488.03 4301488.15 4301488.28 0.0543 0.0217

Venus 7065-01-24 14:38 G 4301522.01 4301522.11 4301522.21 0.3688 0.2573

Neptune 7065-01-25 15:36 G 4301523.04 4301523.15 4301523.27 0.0088 0.0067

Jupiter 7065-03-21 02:52 G 4301577.55 4301577.62 4301577.70 0.0542 0.0444

Neptune 7065-04-23 18:14 G 4301611.19 4301611.26 4301611.36 0.0088 0.0076

Mars 7065-06-19 05:31 G 4301667.65 4301667.73 4301667.82 0.1876 0.1259

Neptune 7065-07-20 21:07 G 4301699.35 4301699.38 4301699.44 0.0088 0.0085

Venus 7069-01-25 00:14 G 4302983.42 4302983.51 4302983.61 0.3682 0.1799

Jupiter 7070-11-05 14:09 G 4303633.01 4303633.09 4303633.18 0.0485 0.0416

Jupiter 7071-02-03 12:14 G 4303722.85 4303723.01 4303723.17 0.0486 0.0193

Mars 7073-12-28 15:07 G 4304781.97 4304782.13 4304782.30 0.1646 0.0046

Venus 7074-08-10 17:16 G 4305007.16 4305007.22 4305007.28 0.3683 0.3040

Mars 7074-11-09 13:40 G 4305097.96 4305098.07 4305098.18 0.1882 0.0530

Jupiter 7076-10-09 18:43 G 4305798.19 4305798.28 4305798.38 0.0543 0.0376

Jupiter 7077-01-07 06:28 G 4305887.66 4305887.77 4305887.88 0.0542 0.0291

Earth 7077-01-07 14:23 G 4305887.99 4305888.10 4305888.21 0.2671 0.0614

Moon 7077-01-07 15:07 G 4305888.02 4305888.13 4305888.24 0.2672 0.0502 *

Saturn 7078-04-21 20:52 G 4306357.25 4306357.37 4306357.50 0.0283 0.0181

Saturn 7078-07-19 15:50 G 4306445.99 4306446.16 4306446.32 0.0282 0.0045

Saturn 7078-10-16 10:48 G 4306534.79 4306534.95 4306535.11 0.0282 0.0093

Saturn 7079-01-13 06:14 G 4306623.67 4306623.76 4306623.86 0.0281 0.0233

Jupiter 7082-11-22 12:14 G 4308032.84 4308033.01 4308033.18 0.0486 0.0042

Mars 7083-05-20 17:45 G 4308212.10 4308212.24 4308212.38 0.1641 0.0743

Mars 7084-03-31 21:36 G 4308528.28 4308528.40 4308528.52 0.1889 0.0227

Moon	7086-07-05 06:00 G	4309353.65	4309353.75	4309353.86	0.2666	0.1848
Earth	7086-07-05 07:26 G	4309353.70	4309353.81	4309353.92	0.2662	0.1753 *
Jupiter	7088-10-26 09:21 G	4310197.76	4310197.89	4310198.02	0.0542	0.0128
Earth	7090-01-10 08:38 G	4310638.76	4310638.86	4310638.97	0.2672	0.0836
Moon	7090-01-10 09:21 G	4310638.78	4310638.89	4310638.99	0.2669	0.0957 *
Mars	7092-10-09 20:23 G	4311642.28	4311642.35	4311642.42	0.1637	0.1476
Saturn	7093-08-17 12:14 G	4311953.91	4311954.01	4311954.12	0.0277	0.0188
Mars	7093-08-22 05:16 G	4311958.62	4311958.72	4311958.82	0.1895	0.1003
Saturn	7093-11-14 01:26 G	4312042.42	4312042.56	4312042.69	0.0277	0.0078
Saturn	7094-02-10 14:09 G	4312130.95	4312131.09	4312131.23	0.0278	0.0032
Saturn	7094-05-10 02:52 G	4312219.50	4312219.62	4312219.74	0.0278	0.0139
Saturn	7094-08-06 15:07 G	4312308.07	4312308.13	4312308.20	0.0279	0.0246
Jupiter	7094-09-10 12:28 G	4312342.85	4312343.02	4312343.18	0.0486	0.0111
Moon	7099-07-08 11:45 G	4314104.84	4314104.99	4314105.13	0.2667	0.0792
Earth	7099-07-08 12:00 G	4314104.85	4314105.00	4314105.14	0.2661	0.0853 *
Jupiter	7100-08-15 12:00 G	4314507.86	4314508.00	4314508.13	0.0542	0.0041
Uranus	7100-12-16 14:52 G	4314631.06	4314631.12	4314631.21	0.0145	0.0131
Uranus	7101-03-14 22:19 G	4314719.31	4314719.43	4314719.56	0.0145	0.0103
Uranus	7101-06-11 05:31 G	4314807.59	4314807.73	4314807.90	0.0145	0.0075
Uranus	7101-09-07 13:11 G	4314895.88	4314896.05	4314896.22	0.0144	0.0046
Uranus	7101-12-04 20:38 G	4314984.18	4314984.36	4314984.54	0.0144	0.0018
Uranus	7102-03-03 04:04 G	4315072.49	4315072.67	4315072.85	0.0144	0.0011
Uranus	7102-05-30 11:31 G	4315160.81	4315160.98	4315161.16	0.0144	0.0040
Uranus	7102-08-26 18:57 G	4315249.14	4315249.29	4315249.46	0.0144	0.0069
Uranus	7102-11-23 02:23 G	4315337.48	4315337.60	4315337.75	0.0144	0.0099
Mars	7103-01-13 12:43 G	4315389.00	4315389.03	4315389.07	0.1900	0.1807
Earth	7103-01-14 02:52 G	4315389.56	4315389.62	4315389.68	0.2674	0.2261
Moon	7103-01-14 03:07 G	4315389.57	4315389.63	4315389.69	0.2667	0.2233 *
Uranus	7103-02-19 10:04 G	4315425.85	4315425.92	4315426.02	0.0144	0.0127
Venus	7103-07-05 00:57 G	4315561.48	4315561.54	4315561.59	0.3680	0.3095

Mars	7104-02-07 13:40 G	4315778.93	4315779.07	4315779.21	0.1651	0.0871	
Mars	7104-12-19 05:45 G	4316094.66	4316094.74	4316094.82	0.1876	0.1336	
Jupiter	7106-06-30 12:43 G	4316652.89	4316653.03	4316653.17	0.0485	0.0258	
Jupiter	7106-09-28 11:02 G	4316742.85	4316742.96	4316743.08	0.0486	0.0360	
Saturn	7107-09-09 21:36 G	4317089.30	4317089.40	4317089.51	0.0283	0.0216	
Saturn	7107-12-07 16:33 G	4317178.02	4317178.19	4317178.35	0.0283	0.0081	
Saturn	7108-03-05 11:31 G	4317266.82	4317266.98	4317267.15	0.0282	0.0057	
Saturn	7108-06-02 06:57 G	4317355.67	4317355.79	4317355.91	0.0282	0.0197	
Venus	7109-01-17 18:28 G	4317585.17	4317585.27	4317585.37	0.3681	0.1716	
Earth	7110-01-07 00:57 G	4317939.46	4317939.54	4317939.62	0.2669	0.1775	
Moon	7110-01-07 01:26 G	4317939.47	4317939.56	4317939.65	0.2674	0.1668	*
Venus	7110-08-02 10:04 G	4318146.80	4318146.92	4318147.04	0.3690	0.1776	
Jupiter	7112-06-03 13:55 G	4318817.96	4318818.08	4318818.21	0.0543	0.0218	
Jupiter	7112-09-01 01:26 G	4318907.48	4318907.56	4318907.63	0.0542	0.0444	
Mars	7113-06-29 15:50 G	4319209.00	4319209.16	4319209.32	0.1646	0.0103	
Mars	7114-05-11 13:55 G	4319524.96	4319525.08	4319525.19	0.1882	0.0609	
Venus	7114-08-03 11:45 G	4319608.89	4319608.99	4319609.10	0.3681	0.0406	
Venus	7116-02-16 12:14 G	4320170.88	4320171.01	4320171.15	0.3689	0.0733	
Jupiter	7118-04-18 13:11 G	4320962.96	4320963.05	4320963.15	0.0485	0.0401	
Jupiter	7118-07-17 11:16 G	4321052.82	4321052.97	4321053.13	0.0485	0.0208	
Venus	7120-02-17 05:02 G	4321632.61	4321632.71	4321632.82	0.3682	0.0933	
Venus	7121-09-01 15:07 G	4322195.08	4322195.13	4322195.19	0.3688	0.3398	
Mars	7122-11-19 18:14 G	4322639.11	4322639.26	4322639.41	0.1641	0.0657	
Saturn	7123-01-05 14:23 G	4322686.02	4322686.10	4322686.19	0.0276	0.0218	
Earth	7123-01-09 19:26 G	4322690.19	4322690.31	4322690.42	0.2671	0.0327	
Moon	7123-01-09 20:09 G	4322690.22	4322690.34	4322690.45	0.2672	0.0228	*
Saturn	7123-04-04 03:36 G	4322774.52	4322774.65	4322774.78	0.0276	0.0108	
Saturn	7123-07-01 16:19 G	4322863.04	4322863.18	4322863.32	0.0277	0.0001	
Saturn	7123-09-28 05:02 G	4322951.58	4322951.71	4322951.84	0.0277	0.0108	
Mars	7123-10-01 21:36 G	4322955.29	4322955.40	4322955.52	0.1888	0.0164	

Saturn 7123-12-25 17:31 G 4323040.14 4323040.23 4323040.31 0.0278 0.0214

Jupiter 7124-03-22 17:02 G 4323128.11 4323128.21 4323128.31 0.0543 0.0378

Jupiter 7124-06-20 04:48 G 4323217.59 4323217.70 4323217.81 0.0543 0.0291

Venus 7125-09-01 22:04 G 4323656.34 4323656.42 4323656.51 0.3683 0.2194

Jupiter 7130-05-05 11:02 G 4325362.79 4325362.96 4325363.13 0.0485 0.0052

Venus 7131-03-18 15:07 G 4325680.09 4325680.13 4325680.16 0.3683 0.3427

Mars 7132-04-10 21:07 G 4326069.29 4326069.38 4326069.46 0.1637 0.1384

Moon 7132-07-06 12:28 G 4326155.90 4326156.02 4326156.14 0.2666 0.1480

Earth 7132-07-06 13:40 G 4326155.94 4326156.07 4326156.20 0.2662 0.1250 *

Mars 7133-02-21 05:31 G 4326385.62 4326385.73 4326385.83 0.1894 0.0930

Jupiter 7136-01-09 19:55 G 4327438.32 4327438.33 4327438.35 0.0543 0.0539

Earth 7136-01-12 13:40 G 4327440.96 4327441.07 4327441.17 0.2672 0.1140

Moon 7136-01-12 14:09 G 4327440.99 4327441.09 4327441.19 0.2668 0.1204 *

Jupiter 7136-04-08 08:09 G 4327527.71 4327527.84 4327527.97 0.0543 0.0137

Saturn 7137-01-26 19:11 G 4327821.26 4327821.30 4327821.35 0.0284 0.0272

Saturn 7137-04-25 13:55 G 4327909.94 4327910.08 4327910.23 0.0283 0.0137

Saturn 7137-07-23 08:52 G 4327998.70 4327998.87 4327999.04 0.0283 0.0001

Saturn 7137-10-20 04:04 G 4328087.52 4328087.67 4328087.82 0.0282 0.0138

Saturn 7138-01-16 23:31 G 4328176.47 4328176.48 4328176.51 0.0281 0.0279

Jupiter 7142-02-21 11:16 G 4329672.80 4329672.97 4329673.14 0.0485 0.0098

Mars 7142-07-14 12:43 G 4329815.99 4329816.03 4329816.08 0.1900 0.1733

Neptune 7143-04-01 06:14 G 4330076.73 4330076.76 4330076.82 0.0089 0.0084

Neptune 7143-06-28 07:55 G 4330164.77 4330164.83 4330164.92 0.0089 0.0077

Mars 7143-08-08 14:23 G 4330205.97 4330206.10 4330206.23 0.1651 0.0976

Neptune 7143-09-24 10:04 G 4330252.83 4330252.92 4330253.01 0.0089 0.0069

Neptune 7143-12-21 11:31 G 4330340.89 4330340.98 4330341.09 0.0089 0.0062

Uranus 7143-12-23 02:23 G 4330342.55 4330342.60 4330342.66 0.0134 0.0123

Neptune 7144-03-18 13:26 G 4330428.95 4330429.06 4330429.17 0.0089 0.0054

Uranus 7144-03-20 06:00 G 4330430.66 4330430.75 4330430.83 0.0134 0.0105

Neptune 7144-06-14 14:52 G 4330517.01 4330517.12 4330517.25 0.0089 0.0047

Uranus 7144-06-16 09:07 G 4330518.78 4330518.88 4330518.99 0.0134 0.0088

Mars 7144-06-19 05:45 G 4330521.66 4330521.74 4330521.81 0.1876 0.1404

Neptune 7144-09-10 16:48 G 4330605.07 4330605.20 4330605.33 0.0089 0.0039

Uranus 7144-09-12 12:43 G 4330606.91 4330607.03 4330607.15 0.0134 0.0070

Neptune 7144-12-07 18:28 G 4330693.14 4330693.27 4330693.40 0.0089 0.0031

Uranus 7144-12-09 16:04 G 4330695.04 4330695.17 4330695.30 0.0134 0.0053

Neptune 7145-03-05 20:09 G 4330781.20 4330781.34 4330781.48 0.0089 0.0024

Uranus 7145-03-07 19:26 G 4330783.18 4330783.31 4330783.44 0.0134 0.0036

Neptune 7145-06-01 21:50 G 4330869.27 4330869.41 4330869.55 0.0089 0.0017

Uranus 7145-06-03 22:48 G 4330871.31 4330871.45 4330871.59 0.0134 0.0018

Moon 7145-07-09 18:00 G 4330907.13 4330907.25 4330907.38 0.2668 0.1424

Earth 7145-07-09 18:14 G 4330907.13 4330907.26 4330907.38 0.2660 0.1370 *

Neptune 7145-08-28 23:31 G 4330957.34 4330957.48 4330957.62 0.0089 0.0009

Uranus 7145-08-31 02:09 G 4330959.45 4330959.59 4330959.72 0.0134 0.0003

Neptune 7145-11-25 01:11 G 4331045.41 4331045.55 4331045.69 0.0089 0.0002

Uranus 7145-11-27 05:16 G 4331047.59 4331047.72 4331047.86 0.0134 0.0017

Neptune 7146-02-21 02:38 G 4331133.47 4331133.61 4331133.76 0.0089 0.0007

Uranus 7146-02-23 08:38 G 4331135.73 4331135.86 4331136.00 0.0134 0.0033

Neptune 7146-05-20 04:19 G 4331221.54 4331221.68 4331221.83 0.0089 0.0013

Uranus 7146-05-22 12:00 G 4331223.87 4331224.00 4331224.13 0.0134 0.0050

Neptune 7146-08-16 06:00 G 4331309.62 4331309.75 4331309.89 0.0089 0.0020

Uranus 7146-08-18 15:07 G 4331312.02 4331312.13 4331312.25 0.0134 0.0068

Neptune 7146-11-12 07:40 G 4331397.69 4331397.82 4331397.95 0.0089 0.0028

Uranus 7146-11-14 18:28 G 4331400.17 4331400.27 4331400.38 0.0134 0.0085

Neptune 7147-02-08 09:21 G 4331485.76 4331485.89 4331486.02 0.0089 0.0035

Uranus 7147-02-10 21:36 G 4331488.32 4331488.40 4331488.50 0.0135 0.0102

Neptune 7147-05-07 10:48 G 4331573.83 4331573.95 4331574.08 0.0089 0.0042

Uranus 7147-05-10 00:57 G 4331576.48 4331576.54 4331576.61 0.0135 0.0119

Neptune 7147-08-03 12:28 G 4331661.91 4331662.02 4331662.14 0.0089 0.0049

Neptune 7147-10-30 14:09 G 4331749.98 4331750.09 4331750.20 0.0089 0.0057

Jupiter 7148-01-26 11:02 G 4331837.83 4331837.96 4331838.10 0.0542 0.0027

Neptune 7148-01-26 15:36 G 4331838.06 4331838.15 4331838.25 0.0089 0.0064 *

Neptune 7148-04-23 17:02 G 4331926.14 4331926.21 4331926.31 0.0089 0.0072

Neptune 7148-07-20 18:43 G 4332014.23 4332014.28 4332014.36 0.0089 0.0078

Neptune 7148-10-16 20:09 G 4332102.32 4332102.34 4332102.40 0.0089 0.0086

Earth 7149-01-14 07:40 G 4332191.79 4332191.82 4332191.85 0.2674 0.2558

Moon 7149-01-14 07:55 G 4332191.81 4332191.83 4332191.85 0.2667 0.2615 *

Saturn 7152-05-24 15:07 G 4333418.08 4333418.13 4333418.18 0.0276 0.0258

Saturn 7152-08-21 04:04 G 4333506.56 4333506.67 4333506.80 0.0276 0.0149

Saturn 7152-11-17 17:16 G 4333595.08 4333595.22 4333595.36 0.0277 0.0039

Mars 7152-12-28 16:19 G 4333636.02 4333636.18 4333636.34 0.1646 0.0188

Saturn 7153-02-14 06:00 G 4333683.61 4333683.75 4333683.88 0.0278 0.0070

Saturn 7153-05-13 18:28 G 4333772.16 4333772.27 4333772.38 0.0278 0.0176

Mars 7153-11-09 13:55 G 4333951.97 4333952.08 4333952.19 0.1882 0.0679

Jupiter 7153-12-10 11:31 G 4333982.84 4333982.98 4333983.13 0.0486 0.0247

Jupiter 7154-03-10 10:04 G 4334072.81 4334072.92 4334073.03 0.0486 0.0371

Earth 7156-01-08 06:00 G 4334741.65 4334741.75 4334741.84 0.2669 0.1466

Moon 7156-01-08 06:28 G 4334741.68 4334741.77 4334741.87 0.2674 0.1444 *

Jupiter 7159-11-14 13:40 G 4336147.94 4336148.07 4336148.19 0.0542 0.0196

Venus 7160-02-08 22:48 G 4336234.38 4336234.45 4336234.53 0.3680 0.2654

Jupiter 7160-02-12 00:43 G 4336237.47 4336237.53 4336237.60 0.0542 0.0462

Pluto 7161-08-08 01:11 G 4336780.52 4336780.55 4336780.60 0.0071 0.0067

Venus 7161-08-23 08:23 G 4336795.81 4336795.85 4336795.90 0.3690 0.3425

Pluto 7161-11-04 01:40 G 4336868.51 4336868.57 4336868.66 0.0071 0.0059

Pluto 7162-01-31 02:23 G 4336956.52 4336956.60 4336956.72 0.0071 0.0051

Pluto 7162-04-29 03:21 G 4337044.54 4337044.64 4337044.76 0.0071 0.0041

Mars 7162-05-20 18:43 G 4337066.13 4337066.28 4337066.43 0.1642 0.0572

Pluto 7162-07-26 04:04 G 4337132.56 4337132.67 4337132.81 0.0071 0.0033

Pluto 7162-10-22 05:16 G 4337220.59 4337220.72 4337220.85 0.0071 0.0023

Pluto 7163-01-18 06:00 G 4337308.62 4337308.75 4337308.89 0.0072 0.0014

Mars	7163-04-01 21:50 G	4337382.29	4337382.41	4337382.53	0.1888	0.0076	
Pluto	7163-04-16 06:43 G	4337396.65	4337396.78	4337396.92	0.0072	0.0005	
Pluto	7163-07-13 07:40 G	4337484.68	4337484.82	4337484.96	0.0072	0.0005	
Pluto	7163-10-09 08:23 G	4337572.72	4337572.85	4337572.99	0.0072	0.0014	
Pluto	7164-01-05 09:21 G	4337660.76	4337660.89	4337661.02	0.0072	0.0023	
Pluto	7164-04-02 10:04 G	4337748.80	4337748.92	4337749.05	0.0072	0.0033	
Pluto	7164-06-29 10:48 G	4337836.85	4337836.95	4337837.07	0.0072	0.0043	
Pluto	7164-09-25 11:31 G	4337924.90	4337924.98	4337925.09	0.0072	0.0053	
Pluto	7164-12-22 12:43 G	4338012.96	4338013.03	4338013.10	0.0073	0.0062	
Pluto	7165-03-20 13:26 G	4338101.05	4338101.06	4338101.09	0.0073	0.0072	
Venus	7165-08-24 16:19 G	4338258.08	4338258.18	4338258.29	0.3681	0.1295	
Jupiter	7165-09-28 12:00 G	4338292.91	4338293.00	4338293.10	0.0485	0.0391	
Jupiter	7165-12-27 10:04 G	4338382.77	4338382.92	4338383.07	0.0485	0.0219	
Saturn	7166-09-12 14:23 G	4338641.97	4338642.10	4338642.23	0.0283	0.0176	
Saturn	7166-12-10 09:07 G	4338730.71	4338730.88	4338731.05	0.0283	0.0039	
Saturn	7167-03-09 04:19 G	4338819.52	4338819.68	4338819.84	0.0282	0.0099	
Venus	7167-03-09 10:19 G	4338819.80	4338819.93	4338820.06	0.3690	0.1034	*
Saturn	7167-06-05 23:45 G	4338908.41	4338908.49	4338908.58	0.0282	0.0239	
Earth	7169-01-10 00:14 G	4339492.40	4339492.51	4339492.62	0.2671	0.0013	
Moon	7169-01-10 00:57 G	4339492.43	4339492.54	4339492.65	0.2672	0.0134	*
Venus	7171-03-10 09:50 G	4340281.80	4340281.91	4340282.02	0.3682	0.0069	
Jupiter	7171-09-02 15:36 G	4340458.05	4340458.15	4340458.24	0.0543	0.0377	
Mars	7171-10-10 21:36 G	4340496.31	4340496.40	4340496.50	0.1637	0.1295	
Jupiter	7171-12-01 03:07 G	4340547.52	4340547.63	4340547.75	0.0543	0.0293	
Mars	7172-08-22 05:31 G	4340812.62	4340812.73	4340812.83	0.1894	0.0854	
Venus	7172-09-22 12:43 G	4340843.90	4340844.03	4340844.16	0.3689	0.1520	
Venus	7176-09-23 02:52 G	4342305.52	4342305.62	4342305.72	0.3682	0.1328	
Jupiter	7177-10-15 10:19 G	4342692.76	4342692.93	4342693.10	0.0485	0.0069	
Moon	7178-07-07 18:57 G	4342958.15	4342958.29	4342958.43	0.2667	0.0756	
Earth	7178-07-07 19:55 G	4342958.19	4342958.33	4342958.47	0.2662	0.0735	*

Saturn 7182-01-08 06:28 G 4344238.67 4344238.77 4344238.89 0.0276 0.0177

Mars 7182-01-12 12:57 G 4344242.98 4344243.04 4344243.10 0.1900 0.1652

Earth 7182-01-12 18:28 G 4344243.18 4344243.27 4344243.36 0.2672 0.1436

Moon 7182-01-12 18:57 G 4344243.20 4344243.29 4344243.38 0.2667 0.1495 *

Saturn 7182-04-06 19:40 G 4344327.18 4344327.32 4344327.46 0.0276 0.0067

Venus 7182-04-08 19:55 G 4344329.26 4344329.33 4344329.41 0.3683 0.2586

Saturn 7182-07-04 08:23 G 4344415.71 4344415.85 4344415.99 0.0277 0.0041

Saturn 7182-09-30 20:52 G 4344504.26 4344504.37 4344504.49 0.0277 0.0147

Saturn 7182-12-28 09:21 G 4344592.84 4344592.89 4344592.95 0.0278 0.0252

Mars 7183-02-06 15:07 G 4344633.01 4344633.13 4344633.25 0.1651 0.1067

Jupiter 7183-06-21 18:14 G 4344768.26 4344768.26 4344768.27 0.0543 0.0541

Jupiter 7183-09-19 06:28 G 4344857.64 4344857.77 4344857.90 0.0543 0.0136

Mars 7183-12-19 05:45 G 4344948.67 4344948.74 4344948.81 0.1876 0.1477

Uranus 7185-01-05 22:33 G 4345332.36 4345332.44 4345332.54 0.0145 0.0123

Uranus 7185-04-04 06:00 G 4345420.62 4345420.75 4345420.89 0.0145 0.0095

Uranus 7185-07-01 13:11 G 4345508.90 4345509.05 4345509.22 0.0145 0.0067

Uranus 7185-09-27 20:38 G 4345597.19 4345597.36 4345597.54 0.0144 0.0039

Uranus 7185-12-25 04:04 G 4345685.49 4345685.67 4345685.86 0.0144 0.0010

Uranus 7186-03-23 11:31 G 4345773.80 4345773.98 4345774.17 0.0144 0.0019

Uranus 7186-06-19 19:11 G 4345862.13 4345862.30 4345862.47 0.0144 0.0047

Uranus 7186-09-16 02:38 G 4345950.46 4345950.61 4345950.77 0.0144 0.0076

Uranus 7186-12-13 10:19 G 4346038.81 4346038.93 4346039.06 0.0144 0.0105

Uranus 7187-03-11 18:00 G 4346127.19 4346127.25 4346127.32 0.0144 0.0134

Earth 7189-01-05 16:19 G 4346793.17 4346793.18 4346793.20 0.2668 0.2633

Jupiter 7189-08-03 10:04 G 4347002.76 4347002.92 4347003.09 0.0485 0.0087

Moon 7191-07-11 00:28 G 4347709.41 4347709.52 4347709.62 0.2667 0.1822

Earth 7191-07-11 00:28 G 4347709.41 4347709.52 4347709.62 0.2660 0.1892 *

Mars 7192-06-28 17:02 G 4348063.05 4348063.21 4348063.37 0.1646 0.0283

Mars 7193-05-10 13:55 G 4348378.97 4348379.08 4348379.19 0.1882 0.0754

Jupiter 7195-07-08 09:50 G 4349167.78 4349167.91 4349168.05 0.0543 0.0019

Saturn 7196-01-30 12:00 G 4349373.91 4349374.00 4349374.10 0.0284 0.0230

Saturn 7196-04-28 06:43 G 4349462.62 4349462.78 4349462.94 0.0283 0.0095

Saturn 7196-07-26 01:40 G 4349551.41 4349551.57 4349551.74 0.0282 0.0043

Saturn 7196-10-22 21:07 G 4349640.25 4349640.38 4349640.51 0.0282 0.0182

Jupiter 7201-05-22 10:33 G 4351312.79 4351312.94 4351313.09 0.0485 0.0234

Jupiter 7201-08-20 08:52 G 4351402.77 4351402.87 4351402.98 0.0486 0.0384

Mars 7201-11-18 19:26 G 4351493.16 4351493.31 4351493.46 0.1642 0.0477

Earth 7202-01-08 10:48 G 4351543.85 4351543.95 4351544.05 0.2669 0.1157

Moon 7202-01-08 11:31 G 4351543.87 4351543.98 4351544.08 0.2674 0.1002 *

Mars 7202-09-30 21:50 G 4351809.29 4351809.41 4351809.53 0.1888 0.0025

Jupiter 7207-04-26 12:43 G 4353477.90 4353478.03 4353478.16 0.0542 0.0183

Jupiter 7207-07-25 00:00 G 4353567.44 4353567.50 4353567.56 0.0542 0.0475

Venus 7211-03-02 03:07 G 4354883.62 4354883.63 4354883.65 0.3680 0.3611

Mars 7211-04-10 22:04 G 4354923.32 4354923.42 4354923.53 0.1637 0.1214

Saturn 7211-05-28 07:11 G 4354970.72 4354970.80 4354970.89 0.0276 0.0218

Saturn 7211-08-24 20:09 G 4355059.21 4355059.34 4355059.48 0.0276 0.0109

Saturn 7211-11-21 09:07 G 4355147.74 4355147.88 4355148.02 0.0277 0.0002

Saturn 7212-02-17 21:50 G 4355236.28 4355236.41 4355236.54 0.0278 0.0108

Mars 7212-02-21 05:45 G 4355239.63 4355239.74 4355239.85 0.1894 0.0770

Saturn 7212-05-16 10:04 G 4355324.84 4355324.92 4355325.02 0.0278 0.0214

Jupiter 7213-03-10 10:48 G 4355622.85 4355622.95 4355623.05 0.0486 0.0381

Jupiter 7213-06-08 08:52 G 4355712.72 4355712.87 4355713.02 0.0486 0.0229

Earth 7215-01-11 05:02 G 4356294.60 4356294.71 4356294.83 0.2671 0.0316

Moon 7215-01-11 05:45 G 4356294.63 4356294.74 4356294.86 0.2670 0.0362 *

Venus 7216-09-14 20:52 G 4356907.28 4356907.37 4356907.46 0.3681 0.2221

Venus 7218-03-30 08:38 G 4357468.77 4357468.86 4357468.95 0.3690 0.2713

Jupiter 7219-02-12 15:07 G 4357788.03 4357788.13 4357788.23 0.0542 0.0354

Jupiter 7219-05-13 02:52 G 4357877.51 4357877.62 4357877.72 0.0542 0.0313

Mars 7221-07-13 13:11 G 4358669.98 4358670.05 4358670.11 0.1900 0.1573

Venus 7222-03-31 14:23 G 4358930.99 4358931.10 4358931.21 0.3681 0.0861

Mars 7222-08-07 15:36 G 4359060.03 4359060.15 4359060.26 0.1652 0.1155

Mars 7223-06-19 06:00 G 4359375.68 4359375.75 4359375.81 0.1875 0.1559

Venus 7223-10-14 10:33 G 4359492.80 4359492.94 4359493.08 0.3689 0.0269

Moon 7224-07-08 01:26 G 4359760.42 4359760.56 4359760.71 0.2668 0.0400

Earth 7224-07-08 02:09 G 4359760.44 4359760.59 4359760.74 0.2662 0.0228 *

Jupiter 7225-03-27 09:07 G 4360022.71 4360022.88 4360023.05 0.0485 0.0080

Saturn 7225-06-18 12:00 G 4360105.96 4360106.00 4360106.06 0.0284 0.0270

Neptune 7225-06-20 11:16 G 4360107.96 4360107.97 4360108.00 0.0088 0.0087

Saturn 7225-09-15 06:43 G 4360194.64 4360194.78 4360194.93 0.0283 0.0135

Neptune 7225-09-16 13:40 G 4360196.01 4360196.07 4360196.16 0.0088 0.0079

Saturn 7225-12-13 01:40 G 4360283.40 4360283.57 4360283.74 0.0283 0.0004

Neptune 7225-12-13 16:19 G 4360284.10 4360284.18 4360284.30 0.0088 0.0071

Neptune 7226-03-11 19:26 G 4360372.19 4360372.31 4360372.44 0.0088 0.0062

Saturn 7226-03-11 21:07 G 4360372.23 4360372.38 4360372.52 0.0282 0.0141 *

Neptune 7226-06-07 21:50 G 4360460.29 4360460.41 4360460.57 0.0088 0.0054

Saturn 7226-06-08 16:48 G 4360461.19 4360461.20 4360461.20 0.0282 0.0281

Neptune 7226-09-04 00:57 G 4360548.39 4360548.54 4360548.69 0.0088 0.0045

Neptune 7226-12-01 03:21 G 4360636.50 4360636.64 4360636.81 0.0088 0.0037

Neptune 7227-02-27 06:28 G 4360724.60 4360724.77 4360724.94 0.0088 0.0028

Neptune 7227-05-26 09:07 G 4360812.71 4360812.88 4360813.06 0.0088 0.0020

Neptune 7227-08-22 12:00 G 4360900.83 4360901.00 4360901.18 0.0088 0.0011

Venus 7227-10-15 07:40 G 4360954.71 4360954.82 4360954.93 0.3682 0.0447

Uranus 7227-10-16 06:43 G 4360955.78 4360955.78 4360955.80 0.0134 0.0133

Neptune 7227-11-18 14:52 G 4360988.94 4360989.12 4360989.29 0.0088 0.0003

Uranus 7228-01-12 10:04 G 4361043.87 4361043.92 4361044.00 0.0134 0.0116

Earth 7228-01-13 23:16 G 4361045.39 4361045.47 4361045.56 0.2673 0.1741

Moon 7228-01-13 23:45 G 4361045.41 4361045.49 4361045.58 0.2667 0.1828 *

Neptune 7228-02-14 17:31 G 4361077.06 4361077.23 4361077.41 0.0088 0.0007

Uranus 7228-04-09 13:40 G 4361131.98 4361132.07 4361132.17 0.0134 0.0098

Neptune 7228-05-12 20:23 G 4361165.18 4361165.35 4361165.53 0.0088 0.0015

Uranus 7228-07-06 17:02 G 4361220.11 4361220.21 4361220.33 0.0134 0.0081

Neptune 7228-08-08 23:02 G 4361253.30 4361253.46 4361253.64 0.0088 0.0024

Uranus 7228-10-02 20:38 G 4361308.24 4361308.36 4361308.48 0.0134 0.0063

Neptune 7228-11-05 01:55 G 4361341.42 4361341.58 4361341.75 0.0088 0.0033

Uranus 7228-12-30 00:00 G 4361396.37 4361396.50 4361396.63 0.0134 0.0046

Neptune 7229-02-01 04:33 G 4361429.55 4361429.69 4361429.86 0.0088 0.0042

Uranus 7229-03-28 03:21 G 4361484.51 4361484.64 4361484.77 0.0134 0.0028

Venus 7229-04-29 13:11 G 4361516.94 4361517.05 4361517.16 0.3688 0.2312

Neptune 7229-04-30 07:40 G 4361517.68 4361517.82 4361517.97 0.0088 0.0050

Uranus 7229-06-24 06:43 G 4361572.64 4361572.78 4361572.92 0.0134 0.0011

Neptune 7229-07-27 10:19 G 4361605.81 4361605.93 4361606.07 0.0088 0.0059

Uranus 7229-09-20 10:04 G 4361660.78 4361660.92 4361661.06 0.0134 0.0007

Neptune 7229-10-23 13:11 G 4361693.95 4361694.05 4361694.17 0.0088 0.0068

Uranus 7229-12-17 13:11 G 4361748.92 4361749.05 4361749.19 0.0134 0.0024

Neptune 7230-01-19 16:04 G 4361782.10 4361782.17 4361782.27 0.0088 0.0077

Uranus 7230-03-15 16:33 G 4361837.06 4361837.19 4361837.32 0.0134 0.0041

Neptune 7230-04-17 18:43 G 4361870.27 4361870.28 4361870.34 0.0088 0.0086

Uranus 7230-06-11 19:55 G 4361925.21 4361925.33 4361925.45 0.0134 0.0058

Uranus 7230-09-07 23:02 G 4362013.36 4362013.46 4362013.58 0.0134 0.0075

Jupiter 7230-12-01 16:48 G 4362098.19 4362098.20 4362098.21 0.0543 0.0540

Uranus 7230-12-05 02:23 G 4362101.51 4362101.60 4362101.70 0.0135 0.0092

Jupiter 7231-03-01 05:02 G 4362187.58 4362187.71 4362187.84 0.0543 0.0138

Uranus 7231-03-03 05:45 G 4362189.66 4362189.74 4362189.82 0.0135 0.0109

Uranus 7231-05-30 08:52 G 4362277.83 4362277.87 4362277.92 0.0135 0.0126

Mars 7231-12-28 17:45 G 4362490.08 4362490.24 4362490.39 0.1647 0.0376

Mars 7232-11-08 13:55 G 4362805.98 4362806.08 4362806.19 0.1882 0.0824

Venus 7233-04-30 00:43 G 4362978.44 4362978.53 4362978.63 0.3683 0.1733

Earth 7235-01-06 21:21 G 4363595.33 4363595.39 4363595.44 0.2668 0.2325

Moon 7235-01-06 21:36 G 4363595.34 4363595.40 4363595.46 0.2674 0.2253 *

Jupiter 7237-01-13 09:21 G 4364332.72 4364332.89 4364333.06 0.0485 0.0069

Earth 7237-07-11 06:43 G 4364511.72 4364511.78 4364511.84 0.2660 0.2422

Moon 7237-07-11 06:57 G 4364511.75 4364511.79 4364511.83 0.2667 0.2536 *

Venus 7238-11-13 17:45 G 4365002.18 4365002.24 4365002.30 0.3683 0.2969

Saturn 7240-10-14 09:36 G 4365702.84 4365702.90 4365702.97 0.0275 0.0245

Saturn 7241-01-10 22:48 G 4365791.33 4365791.45 4365791.58 0.0276 0.0135

Saturn 7241-04-09 11:45 G 4365879.85 4365879.99 4365880.13 0.0276 0.0026

Mars 7241-05-19 20:09 G 4365920.18 4365920.34 4365920.49 0.1642 0.0386

Saturn 7241-07-07 00:28 G 4365968.38 4365968.52 4365968.65 0.0277 0.0081

Saturn 7241-10-03 12:57 G 4366056.94 4366057.04 4366057.14 0.0277 0.0187

Mars 7242-03-31 22:04 G 4366236.30 4366236.42 4366236.53 0.1888 0.0096

Jupiter 7242-12-18 08:09 G 4366497.70 4366497.84 4366497.97 0.0543 0.0029

Pluto 7247-03-31 09:50 G 4368061.87 4368061.91 4368061.95 0.0073 0.0070

Pluto 7247-06-27 11:16 G 4368149.88 4368149.97 4368150.11 0.0073 0.0058

Pluto 7247-09-23 13:40 G 4368237.94 4368238.07 4368238.23 0.0072 0.0044

Pluto 7247-12-20 15:50 G 4368326.00 4368326.16 4368326.34 0.0072 0.0032

Earth 7248-01-09 15:36 G 4368346.05 4368346.15 4368346.26 0.2670 0.0853

Moon 7248-01-09 16:19 G 4368346.07 4368346.18 4368346.29 0.2674 0.0824 *

Pluto 7248-03-17 18:00 G 4368414.08 4368414.25 4368414.44 0.0072 0.0019

Pluto 7248-06-13 20:09 G 4368502.16 4368502.34 4368502.53 0.0072 0.0006

Pluto 7248-09-09 22:04 G 4368590.24 4368590.42 4368590.61 0.0072 0.0007

Jupiter 7248-11-01 09:21 G 4368642.74 4368642.89 4368643.04 0.0485 0.0222

Pluto 7248-12-07 00:14 G 4368678.33 4368678.51 4368678.69 0.0072 0.0019

Jupiter 7249-01-30 07:40 G 4368732.73 4368732.82 4368732.92 0.0485 0.0396

Pluto 7249-03-05 01:55 G 4368766.43 4368766.58 4368766.76 0.0072 0.0032

Pluto 7249-06-01 03:50 G 4368854.53 4368854.66 4368854.82 0.0072 0.0044

Pluto 7249-08-28 05:45 G 4368942.65 4368942.74 4368942.87 0.0072 0.0056

Pluto 7249-11-24 07:55 G 4369030.78 4369030.83 4369030.90 0.0071 0.0068

Mars 7250-10-09 22:48 G 4369350.33 4369350.45 4369350.57 0.1637 0.1121

Mars 7251-08-22 05:45 G 4369666.63 4369666.74 4369666.85 0.1894 0.0702

Jupiter 7254-10-06 11:16 G 4370807.84 4370807.97 4370808.10 0.0543 0.0179

Jupiter 7255-01-03 22:33 G 4370897.38 4370897.44 4370897.50 0.0542 0.0482

Saturn 7255-02-02 04:48 G 4370926.58 4370926.70 4370926.83 0.0283 0.0187

Saturn 7255-05-01 23:45 G 4371015.32 4371015.49 4371015.65 0.0283 0.0051

Saturn 7255-07-29 18:43 G 4371104.12 4371104.28 4371104.45 0.0282 0.0087

Saturn 7255-10-26 14:23 G 4371193.00 4371193.10 4371193.20 0.0282 0.0226

Moon 7257-07-06 02:52 G 4371811.57 4371811.62 4371811.67 0.2666 0.2499

Earth 7257-07-06 04:04 G 4371811.60 4371811.67 4371811.74 0.2663 0.2285 *

Jupiter 7260-08-20 09:50 G 4372952.80 4372952.91 4372953.02 0.0485 0.0368

Jupiter 7260-11-18 07:40 G 4373042.68 4373042.82 4373042.97 0.0485 0.0242

Earth 7261-01-11 10:04 G 4373096.81 4373096.92 4373097.03 0.2671 0.0608

Moon 7261-01-11 10:48 G 4373096.84 4373096.95 4373097.05 0.2668 0.0771 *

Mars 7261-01-11 12:57 G 4373096.97 4373097.04 4373097.12 0.1900 0.1504 *

Mars 7262-02-05 16:19 G 4373487.08 4373487.18 4373487.28 0.1652 0.1255

Mars 7262-12-18 05:45 G 4373802.69 4373802.74 4373802.80 0.1875 0.1619

Jupiter 7266-07-25 14:09 G 4375117.98 4375118.09 4375118.19 0.0543 0.0343

Jupiter 7266-10-23 01:40 G 4375207.47 4375207.57 4375207.68 0.0542 0.0324

Venus 7267-10-07 01:11 G 4375556.50 4375556.55 4375556.61 0.3680 0.3171

Uranus 7268-10-29 23:45 G 4375945.45 4375945.49 4375945.54 0.0145 0.0140

Uranus 7269-01-26 07:11 G 4376033.69 4376033.80 4376033.91 0.0145 0.0112

Uranus 7269-04-24 14:23 G 4376121.96 4376122.10 4376122.25 0.0145 0.0084

Uranus 7269-07-21 21:50 G 4376210.24 4376210.41 4376210.58 0.0145 0.0056

Uranus 7269-10-18 05:16 G 4376298.54 4376298.72 4376298.89 0.0144 0.0028

Uranus 7270-01-14 12:43 G 4376386.84 4376387.03 4376387.21 0.0144 0.0003

Uranus 7270-04-12 20:09 G 4376475.16 4376475.34 4376475.52 0.0144 0.0030

Saturn 7270-05-30 23:16 G 4376523.37 4376523.47 4376523.59 0.0276 0.0177

Moon 7270-07-09 07:40 G 4376562.68 4376562.82 4376562.97 0.2668 0.0317

Earth 7270-07-09 08:23 G 4376562.70 4376562.85 4376563.00 0.2662 0.0289 *

Uranus 7270-07-10 03:36 G 4376563.49 4376563.65 4376563.82 0.0144 0.0058

Saturn 7270-08-27 12:14 G 4376611.88 4376612.01 4376612.15 0.0277 0.0069

Uranus 7270-10-06 11:02 G 4376651.82 4376651.96 4376652.11 0.0144 0.0088

Saturn	7270-11-24 01:11 G	4376700.41	4376700.55	4376700.69	0.0277	0.0040
Uranus	7271-01-02 18:43 G	4376740.18	4376740.28	4376740.39	0.0144	0.0116
Saturn	7271-02-20 13:40 G	4376788.95	4376789.07	4376789.19	0.0278	0.0147
Saturn	7271-05-20 02:09 G	4376877.53	4376877.59	4376877.65	0.0278	0.0252
Mars	7271-06-28 18:14 G	4376917.11	4376917.26	4376917.42	0.1647	0.0465
Mars	7272-05-09 14:09 G	4377232.98	4377233.09	4377233.19	0.1882	0.0906
Jupiter	7272-09-06 07:40 G	4377352.65	4377352.82	4377352.99	0.0486	0.0089
Venus	7273-04-21 18:57 G	4377580.19	4377580.29	4377580.38	0.3681	0.1791
Earth	7274-01-14 04:19 G	4377847.61	4377847.68	4377847.75	0.2673	0.2037
Moon	7274-01-14 04:33 G	4377847.62	4377847.69	4377847.76	0.2667	0.2054 *
Venus	7274-11-04 08:38 G	4378141.75	4378141.86	4378141.98	0.3690	0.1984
Jupiter	7278-05-13 16:33 G	4379428.15	4379428.19	4379428.23	0.0542	0.0515
Jupiter	7278-08-11 04:33 G	4379517.56	4379517.69	4379517.82	0.0542	0.0159
Venus	7278-11-05 12:14 G	4379603.90	4379604.01	4379604.12	0.3681	0.0458
Venus	7280-05-20 10:48 G	4380165.82	4380165.95	4380166.09	0.3689	0.0495
Mars	7280-11-17 20:38 G	4380347.20	4380347.36	4380347.51	0.1642	0.0304
Earth	7281-01-07 02:09 G	4380397.52	4380397.59	4380397.67	0.2668	0.2013
Moon	7281-01-07 02:38 G	4380397.54	4380397.61	4380397.68	0.2674	0.1987 *
Mars	7281-09-29 22:04 G	4380663.30	4380663.42	4380663.54	0.1888	0.0157
Venus	7284-05-21 05:31 G	4381627.63	4381627.73	4381627.84	0.3682	0.0855
Saturn	7284-06-21 04:48 G	4381658.61	4381658.70	4381658.80	0.0283	0.0228
Jupiter	7284-06-25 08:09 G	4381662.67	4381662.84	4381663.01	0.0485	0.0059
Saturn	7284-09-17 23:31 G	4381747.33	4381747.48	4381747.64	0.0283	0.0093
Saturn	7284-12-15 18:43 G	4381836.11	4381836.28	4381836.44	0.0282	0.0045
Saturn	7285-03-14 13:55 G	4381924.96	4381925.08	4381925.21	0.0282	0.0184
Venus	7285-12-04 13:40 G	4382190.00	4382190.07	4382190.14	0.3688	0.3123
Venus	7289-12-04 22:33 G	4383651.36	4383651.44	4383651.53	0.3683	0.2128
Mars	7290-04-09 23:16 G	4383777.35	4383777.47	4383777.60	0.1637	0.1034
Jupiter	7290-05-30 06:28 G	4383827.64	4383827.77	4383827.91	0.0543	0.0022
Mars	7291-02-20 05:45 G	4384093.63	4384093.74	4384093.85	0.1894	0.0623

Earth 7294-01-09 20:38 G 4385148.25 4385148.36 4385148.47 0.2670 0.0542

Moon 7294-01-09 21:21 G 4385148.28 4385148.39 4385148.50 0.2672 0.0395 *

Venus 7295-06-20 15:36 G 4385675.11 4385675.15 4385675.19 0.3683 0.3354

Jupiter 7296-04-13 08:38 G 4385972.71 4385972.86 4385973.01 0.0485 0.0205

Jupiter 7296-07-12 06:57 G 4386062.71 4386062.79 4386062.88 0.0485 0.0413

Saturn 7299-10-18 02:09 G 4387255.50 4387255.59 4387255.69 0.0276 0.0201

Saturn 7300-01-14 15:07 G 4387344.00 4387344.13 4387344.27 0.0276 0.0092

Saturn 7300-04-13 04:04 G 4387432.53 4387432.67 4387432.81 0.0276 0.0016

Saturn 7300-07-10 16:33 G 4387521.07 4387521.19 4387521.32 0.0277 0.0123

Mars 7300-07-13 13:11 G 4387523.98 4387524.05 4387524.13 0.1900 0.1419

Saturn 7300-10-07 05:02 G 4387609.64 4387609.71 4387609.79 0.0277 0.0228

Mars 7301-08-07 17:02 G 4387914.12 4387914.21 4387914.30 0.1652 0.1353

Jupiter 7302-03-19 09:21 G 4388137.77 4388137.89 4388138.02 0.0543 0.0184

Jupiter 7302-06-16 20:38 G 4388227.31 4388227.36 4388227.43 0.0543 0.0478

Mars 7302-06-19 06:00 G 4388229.70 4388229.75 4388229.79 0.1875 0.1699

Moon 7303-07-08 09:07 G 4388613.78 4388613.88 4388613.98 0.2668 0.1923

Earth 7303-07-08 10:19 G 4388613.82 4388613.93 4388614.04 0.2663 0.1787 *

Earth 7307-01-13 14:52 G 4389899.02 4389899.12 4389899.23 0.2671 0.0914

Moon 7307-01-13 15:36 G 4389899.05 4389899.15 4389899.26 0.2668 0.0942 *

Neptune 7307-12-28 04:48 G 4390247.67 4390247.70 4390247.76 0.0089 0.0084

Jupiter 7308-02-01 08:38 G 4390282.75 4390282.86 4390282.97 0.0485 0.0357

Neptune 7308-03-25 06:43 G 4390335.71 4390335.78 4390335.86 0.0089 0.0077

Jupiter 7308-05-01 06:28 G 4390372.63 4390372.77 4390372.92 0.0485 0.0252

Neptune 7308-06-21 08:38 G 4390423.77 4390423.86 4390423.95 0.0089 0.0069

Neptune 7308-09-17 10:04 G 4390511.83 4390511.92 4390512.03 0.0089 0.0062

Neptune 7308-12-14 12:00 G 4390599.89 4390600.00 4390600.11 0.0089 0.0054

Neptune 7309-03-12 13:26 G 4390687.95 4390688.06 4390688.19 0.0089 0.0047

Neptune 7309-06-08 15:21 G 4390776.01 4390776.14 4390776.27 0.0089 0.0039

Neptune 7309-09-04 17:02 G 4390864.08 4390864.21 4390864.35 0.0089 0.0031

Neptune 7309-12-01 18:43 G 4390952.14 4390952.28 4390952.42 0.0089 0.0024

Neptune 7310-02-27 20:23 G 4391040.21 4391040.35 4391040.49 0.0089 0.0017

Neptune 7310-05-26 22:04 G 4391128.28 4391128.42 4391128.56 0.0089 0.0009

Neptune 7310-08-22 23:45 G 4391216.35 4391216.49 4391216.63 0.0089 0.0002

Neptune 7310-11-19 01:26 G 4391304.42 4391304.56 4391304.70 0.0089 0.0006

Mars 7310-12-28 18:57 G 4391344.14 4391344.29 4391344.44 0.1647 0.0559

Neptune 7311-02-15 02:52 G 4391392.49 4391392.62 4391392.77 0.0089 0.0014

Neptune 7311-05-14 04:33 G 4391480.56 4391480.69 4391480.83 0.0089 0.0021

Neptune 7311-08-10 06:14 G 4391568.63 4391568.76 4391568.90 0.0089 0.0028

Neptune 7311-11-06 07:55 G 4391656.70 4391656.83 4391656.96 0.0089 0.0035

Uranus 7311-11-06 14:52 G 4391657.07 4391657.12 4391657.17 0.0134 0.0125

Mars 7311-11-09 14:09 G 4391659.99 4391660.09 4391660.19 0.1882 0.0975

Neptune 7312-02-02 09:21 G 4391744.78 4391744.89 4391745.02 0.0089 0.0043

Uranus 7312-02-02 18:14 G 4391745.18 4391745.26 4391745.34 0.0134 0.0108

Neptune 7312-04-30 11:02 G 4391832.85 4391832.96 4391833.08 0.0089 0.0050

Uranus 7312-04-30 21:50 G 4391833.30 4391833.41 4391833.51 0.0134 0.0090

Neptune 7312-07-27 12:43 G 4391920.93 4391921.03 4391921.14 0.0089 0.0057

Uranus 7312-07-28 00:57 G 4391921.43 4391921.54 4391921.66 0.0134 0.0073

Neptune 7312-10-23 14:23 G 4392009.01 4392009.10 4392009.20 0.0089 0.0064

Uranus 7312-10-24 04:33 G 4392009.56 4392009.69 4392009.82 0.0134 0.0055

Neptune 7313-01-19 16:04 G 4392097.09 4392097.17 4392097.25 0.0089 0.0071

Uranus 7313-01-20 07:55 G 4392097.70 4392097.83 4392097.96 0.0134 0.0038

Neptune 7313-04-17 17:16 G 4392185.17 4392185.22 4392185.30 0.0089 0.0079

Uranus 7313-04-18 11:16 G 4392185.83 4392185.97 4392186.11 0.0134 0.0021

Neptune 7313-07-14 18:57 G 4392273.26 4392273.29 4392273.34 0.0089 0.0085

Uranus 7313-07-15 14:38 G 4392273.97 4392274.11 4392274.25 0.0134 0.0003

Uranus 7313-10-11 18:00 G 4392362.11 4392362.25 4392362.39 0.0134 0.0014

Saturn 7313-11-09 03:36 G 4392390.62 4392390.65 4392390.69 0.0284 0.0275

Jupiter 7314-01-05 12:28 G 4392447.92 4392448.02 4392448.13 0.0543 0.0343

Uranus 7314-01-07 21:21 G 4392450.25 4392450.39 4392450.52 0.0134 0.0031

Saturn 7314-02-05 22:04 G 4392479.28 4392479.42 4392479.57 0.0283 0.0141

Jupiter 7314-04-05 00:14 G 4392537.41 4392537.51 4392537.62 0.0543 0.0327

Uranus 7314-04-06 00:28 G 4392538.40 4392538.52 4392538.65 0.0134 0.0048

Saturn 7314-05-05 17:02 G 4392568.04 4392568.21 4392568.38 0.0283 0.0005

Uranus 7314-07-03 03:50 G 4392626.54 4392626.66 4392626.78 0.0134 0.0065

Saturn 7314-08-02 12:14 G 4392656.86 4392657.01 4392657.16 0.0282 0.0133

Uranus 7314-09-29 06:57 G 4392714.69 4392714.79 4392714.90 0.0134 0.0083

Saturn 7314-10-30 07:40 G 4392745.79 4392745.82 4392745.86 0.0282 0.0273

Uranus 7314-12-26 10:19 G 4392802.84 4392802.93 4392803.02 0.0135 0.0100

Uranus 7315-03-24 13:26 G 4392891.00 4392891.06 4392891.14 0.0135 0.0117

Uranus 7315-06-20 16:33 G 4392979.19 4392979.19 4392979.22 0.0135 0.0134

Moon 7316-07-10 14:09 G 4393364.94 4393365.09 4393365.23 0.2668 0.0674

Earth 7316-07-10 14:38 G 4393364.96 4393365.11 4393365.25 0.2661 0.0803 *

Earth 7320-01-16 09:07 G 4394649.83 4394649.88 4394649.93 0.2673 0.2336

Moon 7320-01-16 09:21 G 4394649.84 4394649.89 4394649.94 0.2667 0.2409 *

Jupiter 7320-02-18 06:28 G 4394682.61 4394682.77 4394682.94 0.0485 0.0100

Mars 7320-05-19 21:21 G 4394774.23 4394774.39 4394774.55 0.1642 0.0209

Mars 7321-03-31 22:04 G 4395090.30 4395090.42 4395090.54 0.1888 0.0226

Venus 7324-05-13 23:16 G 4396229.40 4396229.47 4396229.54 0.3680 0.2730

Jupiter 7325-10-24 15:21 G 4396758.09 4396758.14 4396758.18 0.0543 0.0508

Venus 7325-11-26 07:11 G 4396790.78 4396790.80 4396790.83 0.3690 0.3607

Jupiter 7326-01-22 03:21 G 4396847.52 4396847.64 4396847.77 0.0542 0.0168

Earth 7327-01-09 07:11 G 4397199.71 4397199.80 4397199.88 0.2668 0.1703

Moon 7327-01-09 07:40 G 4397199.73 4397199.82 4397199.91 0.2674 0.1631 *

Saturn 7329-03-07 02:38 G 4397987.55 4397987.61 4397987.68 0.0276 0.0243

Saturn 7329-06-03 15:50 G 4398076.04 4398076.16 4398076.29 0.0276 0.0133

Saturn 7329-08-31 04:48 G 4398164.56 4398164.70 4398164.84 0.0277 0.0025

Mars 7329-10-09 23:45 G 4398204.36 4398204.49 4398204.62 0.1637 0.0952

Saturn 7329-11-27 17:31 G 4398253.09 4398253.23 4398253.36 0.0277 0.0083

Venus 7329-11-27 16:48 G 4398253.10 4398253.20 4398253.31 0.3681 0.1363 *

Saturn 7330-02-24 06:00 G 4398341.65 4398341.75 4398341.85 0.0278 0.0189

Mars	7330-08-22 06:00 G	4398520.63	4398520.75	4398520.86	0.1894	0.0543	
Venus	7331-06-12 09:07 G	4398814.75	4398814.88	4398815.00	0.3689	0.1241	
Jupiter	7331-12-07 06:28 G	4398992.61	4398992.77	4398992.94	0.0485	0.0055	
Venus	7335-06-13 10:19 G	4400276.82	4400276.93	4400277.04	0.3681	0.0078	
Venus	7336-12-26 11:16 G	4400838.84	4400838.97	4400839.10	0.3688	0.1280	
Jupiter	7337-11-10 06:00 G	4401157.62	4401157.75	4401157.89	0.0542	0.0018	
Earth	7340-01-12 01:26 G	4401950.45	4401950.56	4401950.68	0.2670	0.0255	
Moon	7340-01-12 02:23 G	4401950.48	4401950.60	4401950.71	0.2670	0.0195	*
Mars	7340-01-12 13:26 G	4401950.97	4401951.06	4401951.14	0.1899	0.1343	
Venus	7340-12-27 03:21 G	4402300.54	4402300.64	4402300.75	0.3682	0.1271	
Mars	7341-02-05 17:31 G	4402341.15	4402341.23	4402341.31	0.1652	0.1438	
Mars	7341-12-18 06:00 G	4402656.72	4402656.75	4402656.79	0.1875	0.1775	
Saturn	7343-06-25 22:04 G	4403211.29	4403211.42	4403211.54	0.0283	0.0183	
Saturn	7343-09-22 16:48 G	4403300.03	4403300.20	4403300.37	0.0283	0.0047	
Jupiter	7343-09-25 07:11 G	4403302.64	4403302.80	4403302.95	0.0485	0.0198	
Saturn	7343-12-20 12:00 G	4403388.84	4403389.00	4403389.16	0.0282	0.0091	
Jupiter	7343-12-24 05:31 G	4403392.65	4403392.73	4403392.82	0.0486	0.0421	
Saturn	7344-03-18 07:26 G	4403477.71	4403477.81	4403477.91	0.0282	0.0230	
Venus	7346-07-12 20:38 G	4404324.28	4404324.36	4404324.43	0.3683	0.2522	
Moon	7349-07-08 15:36 G	4405416.02	4405416.15	4405416.27	0.2669	0.1375	
Earth	7349-07-08 16:33 G	4405416.06	4405416.19	4405416.32	0.2663	0.1269	*
Jupiter	7349-08-29 07:55 G	4405467.70	4405467.83	4405467.95	0.0543	0.0184	
Jupiter	7349-11-26 19:11 G	4405557.24	4405557.30	4405557.36	0.0542	0.0477	
Mars	7350-06-28 19:40 G	4405771.17	4405771.32	4405771.46	0.1647	0.0656	
Mars	7351-05-10 14:09 G	4406086.99	4406087.09	4406087.19	0.1881	0.1049	
Uranus	7352-11-20 07:40 G	4406646.75	4406646.82	4406646.90	0.0145	0.0131	
Earth	7353-01-13 19:55 G	4406701.23	4406701.33	4406701.43	0.2671	0.1212	
Moon	7353-01-13 20:23 G	4406701.26	4406701.35	4406701.45	0.2668	0.1369	*
Uranus	7353-02-16 14:52 G	4406735.00	4406735.12	4406735.25	0.0145	0.0103	
Uranus	7353-05-15 22:19 G	4406823.28	4406823.43	4406823.58	0.0145	0.0075	

Uranus 7353-08-12 05:45 G 4406911.57 4406911.74 4406911.91 0.0144 0.0047

Uranus 7353-11-08 13:11 G 4406999.87 4407000.05 4407000.23 0.0144 0.0019

Uranus 7354-02-04 20:38 G 4407088.17 4407088.36 4407088.54 0.0144 0.0011

Uranus 7354-05-04 03:50 G 4407176.49 4407176.66 4407176.84 0.0144 0.0040

Uranus 7354-07-31 11:16 G 4407264.82 4407264.97 4407265.15 0.0144 0.0069

Uranus 7354-10-27 18:57 G 4407353.16 4407353.29 4407353.44 0.0144 0.0097

Uranus 7355-01-24 02:23 G 4407441.53 4407441.60 4407441.71 0.0144 0.0126

Jupiter 7355-07-14 07:40 G 4407612.70 4407612.82 4407612.94 0.0485 0.0343

Jupiter 7355-10-12 05:31 G 4407702.59 4407702.73 4407702.88 0.0485 0.0268

Saturn 7358-07-25 05:45 G 4408719.70 4408719.74 4408719.77 0.0275 0.0265

Saturn 7358-10-21 18:57 G 4408808.17 4408808.29 4408808.41 0.0276 0.0156

Saturn 7359-01-18 07:55 G 4408896.69 4408896.83 4408896.97 0.0276 0.0047

Saturn 7359-04-16 20:38 G 4408985.22 4408985.36 4408985.50 0.0277 0.0060

Saturn 7359-07-14 09:07 G 4409073.77 4409073.88 4409074.00 0.0277 0.0166

Saturn 7359-10-10 21:36 G 4409162.37 4409162.40 4409162.43 0.0278 0.0271

Mars 7359-11-18 21:50 G 4409201.25 4409201.41 4409201.57 0.1642 0.0117

Mars 7360-09-29 22:04 G 4409517.31 4409517.42 4409517.54 0.1888 0.0311

Jupiter 7361-06-17 10:33 G 4409777.83 4409777.94 4409778.04 0.0543 0.0351

Jupiter 7361-09-14 22:19 G 4409867.32 4409867.43 4409867.54 0.0543 0.0319

Moon 7362-07-11 20:38 G 4410167.23 4410167.36 4410167.49 0.2668 0.1347

Earth 7362-07-11 20:52 G 4410167.24 4410167.37 4410167.50 0.2661 0.1325 *

Moon 7366-01-16 14:09 G 4411452.06 4411452.09 4411452.11 0.2666 0.2575

Earth 7366-01-16 13:55 G 4411452.07 4411452.08 4411452.10 0.2673 0.2638 *

Jupiter 7367-07-31 05:02 G 4412012.55 4412012.71 4412012.88 0.0485 0.0109

Mars 7369-04-10 00:28 G 4412631.39 4412631.52 4412631.66 0.1637 0.0857

Mars 7370-02-20 06:00 G 4412947.63 4412947.75 4412947.86 0.1894 0.0472

Saturn 7372-11-11 21:21 G 4413943.30 4413943.39 4413943.49 0.0284 0.0225

Earth 7373-01-09 12:00 G 4414001.91 4414002.00 4414002.10 0.2668 0.1393

Moon 7373-01-09 12:28 G 4414001.92 4414002.02 4414002.12 0.2674 0.1327 *

Saturn 7373-02-08 16:04 G 4414032.01 4414032.17 4414032.33 0.0283 0.0091

Jupiter	7373-04-05 13:26 G	4414088.02	4414088.06	4414088.11	0.0543	0.0512
Saturn	7373-05-08 11:02 G	4414120.79	4414120.96	4414121.13	0.0283	0.0046
Jupiter	7373-07-04 01:40 G	4414177.44	4414177.57	4414177.70	0.0543	0.0166
Saturn	7373-08-05 06:14 G	4414209.64	4414209.76	4414209.89	0.0282	0.0185
Mars	7378-08-31 03:21 G	4416061.61	4416061.64	4416061.68	0.1633	0.1575
Jupiter	7379-05-19 05:16 G	4416322.55	4416322.72	4416322.89	0.0485	0.0044
Mars	7379-07-13 13:26 G	4416377.97	4416378.06	4416378.15	0.1900	0.1266
Mars	7380-08-06 18:14 G	4416768.21	4416768.26	4416768.32	0.1652	0.1543
Venus	7380-12-18 21:21 G	4416902.30	4416902.39	4416902.47	0.3681	0.2292
Mars	7381-06-18 06:00 G	4417083.73	4417083.75	4417083.77	0.1875	0.1841
Venus	7382-07-03 07:26 G	4417463.73	4417463.81	4417463.89	0.3690	0.2886
Jupiter	7385-04-22 04:48 G	4418487.56	4418487.70	4418487.83	0.0543	0.0008
Earth	7386-01-12 06:28 G	4418752.66	4418752.77	4418752.88	0.2670	0.0073
Moon	7386-01-12 07:11 G	4418752.69	4418752.80	4418752.91	0.2670	0.0205 *
Venus	7386-07-04 14:52 G	4418926.01	4418926.12	4418926.23	0.3681	0.0932
Venus	7388-01-17 09:21 G	4419487.75	4419487.89	4419488.02	0.3689	0.0487
Saturn	7388-03-09 19:26 G	4419540.22	4419540.31	4419540.42	0.0276	0.0197
Saturn	7388-06-06 08:38 G	4419628.72	4419628.86	4419629.00	0.0276	0.0088
Saturn	7388-09-02 21:21 G	4419717.25	4419717.39	4419717.54	0.0277	0.0022
Saturn	7388-11-30 10:04 G	4419805.80	4419805.92	4419806.05	0.0277	0.0127
Saturn	7389-02-26 22:33 G	4419894.37	4419894.44	4419894.51	0.0278	0.0233
Mars	7389-12-27 19:55 G	4420198.19	4420198.33	4420198.48	0.1647	0.0740
Neptune	7390-03-18 09:07 G	4420278.86	4420278.88	4420278.92	0.0088	0.0086
Neptune	7390-06-14 11:45 G	4420366.92	4420366.99	4420367.08	0.0088	0.0078
Neptune	7390-09-10 14:23 G	4420455.01	4420455.10	4420455.22	0.0088	0.0070
Mars	7390-11-08 14:09 G	4420514.00	4420514.09	4420514.19	0.1882	0.1124
Neptune	7390-12-07 17:16 G	4420543.10	4420543.22	4420543.35	0.0088	0.0061
Neptune	7391-03-05 19:55 G	4420631.20	4420631.33	4420631.48	0.0088	0.0053
Jupiter	7391-03-07 05:16 G	4420632.57	4420632.72	4420632.88	0.0485	0.0195
Neptune	7391-06-01 22:48 G	4420719.30	4420719.45	4420719.60	0.0088	0.0044

Jupiter 7391-06-05 03:50 G 4420722.58 4420722.66 4420722.74 0.0486 0.0424

Neptune 7391-08-29 01:26 G 4420807.41 4420807.56 4420807.73 0.0088 0.0036

Neptune 7391-11-25 04:19 G 4420895.51 4420895.68 4420895.85 0.0088 0.0027

Venus 7392-01-18 08:09 G 4420949.73 4420949.84 4420949.95 0.3682 0.0385

Neptune 7392-02-21 06:57 G 4420983.62 4420983.79 4420983.97 0.0088 0.0019

Neptune 7392-05-19 09:50 G 4421071.74 4421071.91 4421072.09 0.0088 0.0010

Neptune 7392-08-15 12:43 G 4421159.85 4421160.03 4421160.20 0.0088 0.0002

Neptune 7392-11-11 15:21 G 4421247.97 4421248.14 4421248.32 0.0088 0.0007

Neptune 7393-02-07 18:14 G 4421336.08 4421336.26 4421336.43 0.0088 0.0016

Neptune 7393-05-06 20:52 G 4421424.21 4421424.37 4421424.55 0.0088 0.0025

Venus 7393-08-02 11:45 G 4421511.88 4421511.99 4421512.11 0.3688 0.2075

Neptune 7393-08-02 23:31 G 4421512.33 4421512.48 4421512.66 0.0088 0.0034

Neptune 7393-10-30 02:38 G 4421600.46 4421600.61 4421600.77 0.0088 0.0042

Neptune 7394-01-26 05:16 G 4421688.59 4421688.72 4421688.87 0.0088 0.0051

Neptune 7394-04-24 08:09 G 4421776.72 4421776.84 4421776.98 0.0088 0.0060

Neptune 7394-07-21 10:48 G 4421864.86 4421864.95 4421865.08 0.0088 0.0069

Neptune 7394-10-17 13:40 G 4421953.01 4421953.07 4421953.17 0.0088 0.0078

Neptune 7395-01-13 16:33 G 4422041.18 4422041.19 4422041.24 0.0088 0.0087

Moon 7395-07-09 21:50 G 4422218.27 4422218.41 4422218.55 0.2669 0.0930

Earth 7395-07-09 22:48 G 4422218.31 4422218.45 4422218.59 0.2663 0.0761 *

Uranus 7395-11-26 22:33 G 4422358.38 4422358.44 4422358.51 0.0134 0.0118

Uranus 7396-02-23 02:09 G 4422446.50 4422446.59 4422446.68 0.0134 0.0100

Uranus 7396-05-21 05:31 G 4422534.62 4422534.73 4422534.84 0.0134 0.0083

Uranus 7396-08-17 08:52 G 4422622.75 4422622.87 4422623.00 0.0134 0.0065

Uranus 7396-11-13 12:14 G 4422710.89 4422711.01 4422711.15 0.0134 0.0048

Jupiter 7397-02-08 07:26 G 4422797.68 4422797.81 4422797.94 0.0542 0.0164

Uranus 7397-02-09 15:36 G 4422799.02 4422799.15 4422799.29 0.0134 0.0031

Uranus 7397-05-08 19:11 G 4422887.16 4422887.30 4422887.44 0.0134 0.0013

Jupiter 7397-05-08 18:43 G 4422887.23 4422887.28 4422887.33 0.0542 0.0496 *

Venus 7397-08-03 01:26 G 4422973.46 4422973.56 4422973.65 0.3682 0.1665

Uranus	7397-08-04 22:33 G	4422975.30	4422975.44	4422975.57	0.0134	0.0005	
Uranus	7397-11-01 01:55 G	4423063.44	4423063.58	4423063.71	0.0134	0.0022	
Uranus	7398-01-28 05:02 G	4423151.58	4423151.71	4423151.85	0.0134	0.0039	
Uranus	7398-04-26 08:23 G	4423239.73	4423239.85	4423239.98	0.0134	0.0056	
Uranus	7398-07-23 11:45 G	4423327.88	4423327.99	4423328.10	0.0134	0.0073	
Uranus	7398-10-19 14:52 G	4423416.03	4423416.12	4423416.23	0.0134	0.0090	
Earth	7399-01-15 00:43 G	4423503.44	4423503.53	4423503.62	0.2672	0.1517	
Moon	7399-01-15 01:26 G	4423503.46	4423503.56	4423503.65	0.2668	0.1542	*
Uranus	7399-01-15 18:14 G	4423504.18	4423504.26	4423504.34	0.0135	0.0107	
Uranus	7399-04-13 21:21 G	4423592.35	4423592.39	4423592.45	0.0135	0.0124	
Mars	7399-05-19 22:19 G	4423628.27	4423628.43	4423628.59	0.1642	0.0036	
Mars	7400-03-31 22:19 G	4423944.32	4423944.43	4423944.55	0.1887	0.0385	
Saturn	7402-04-01 21:07 G	4424675.33	4424675.38	4424675.44	0.0283	0.0267	
Saturn	7402-06-29 15:50 G	4424764.01	4424764.16	4424764.31	0.0283	0.0133	
Saturn	7402-09-26 10:48 G	4424852.78	4424852.95	4424853.11	0.0283	0.0007	
Saturn	7402-12-24 06:00 G	4424941.60	4424941.75	4424941.89	0.0282	0.0141	
Jupiter	7402-12-25 06:00 G	4424942.63	4424942.75	4424942.87	0.0485	0.0338	
Venus	7403-02-17 18:14 G	4424997.20	4424997.26	4424997.33	0.3683	0.2911	
Saturn	7403-03-23 01:26 G	4425030.56	4425030.56	4425030.57	0.0282	0.0281	
Jupiter	7403-03-25 03:50 G	4425032.53	4425032.66	4425032.81	0.0485	0.0274	
Earth	7406-01-08 22:33 G	4426053.41	4426053.44	4426053.46	0.2667	0.2571	
Moon	7406-01-08 22:33 G	4426053.41	4426053.44	4426053.48	0.2674	0.2504	*
Earth	7408-07-13 03:21 G	4426969.53	4426969.64	4426969.74	0.2661	0.1859	
Moon	7408-07-13 03:21 G	4426969.54	4426969.64	4426969.75	0.2668	0.1882	*
Mars	7408-10-10 01:11 G	4427058.41	4427058.55	4427058.69	0.1638	0.0767	
Jupiter	7408-11-28 08:52 G	4427107.77	4427107.87	4427107.97	0.0543	0.0351	
Jupiter	7409-02-25 20:38 G	4427197.26	4427197.36	4427197.47	0.0542	0.0318	
Mars	7409-08-22 06:00 G	4427374.63	4427374.75	4427374.87	0.1894	0.0394	
Pluto	7409-09-05 09:07 G	4427388.88	4427388.88	4427388.88	0.0071	0.0071	
Pluto	7409-12-02 09:36 G	4427476.85	4427476.90	4427476.97	0.0071	0.0062	

Pluto	7410-02-28 10:33 G	4427564.85	4427564.94	4427565.03	0.0071	0.0053
Pluto	7410-05-27 11:16 G	4427652.87	4427652.97	4427653.08	0.0071	0.0045
Pluto	7410-08-23 12:00 G	4427740.89	4427741.00	4427741.12	0.0071	0.0036
Pluto	7410-11-19 12:43 G	4427828.91	4427829.03	4427829.17	0.0071	0.0027
Pluto	7411-02-15 13:40 G	4427916.94	4427917.07	4427917.21	0.0072	0.0017
Pluto	7411-05-14 14:23 G	4428004.97	4428005.10	4428005.24	0.0072	0.0009
Pluto	7411-08-10 15:21 G	4428093.00	4428093.14	4428093.28	0.0072	0.0001
Pluto	7411-11-06 16:04 G	4428181.04	4428181.17	4428181.31	0.0072	0.0010
Pluto	7412-02-02 16:48 G	4428269.07	4428269.20	4428269.34	0.0072	0.0020
Pluto	7412-04-30 17:45 G	4428357.12	4428357.24	4428357.37	0.0072	0.0029
Pluto	7412-07-27 18:43 G	4428445.16	4428445.28	4428445.39	0.0072	0.0039
Pluto	7412-10-23 19:11 G	4428533.21	4428533.30	4428533.41	0.0072	0.0049
Pluto	7413-01-19 19:55 G	4428621.27	4428621.33	4428621.43	0.0073	0.0059
Pluto	7413-04-17 21:07 G	4428709.34	4428709.38	4428709.43	0.0073	0.0068
Jupiter	7414-10-13 06:43 G	4429252.77	4429252.78	4429252.80	0.0485	0.0482
Jupiter	7415-01-11 04:04 G	4429342.50	4429342.67	4429342.84	0.0485	0.0121
Saturn	7417-07-28 22:33 G	4430272.36	4430272.44	4430272.54	0.0276	0.0218
Saturn	7417-10-25 11:45 G	4430360.86	4430360.99	4430361.13	0.0276	0.0108
Saturn	7418-01-22 00:43 G	4430449.39	4430449.53	4430449.67	0.0277	0.0004
Mars	7418-03-02 04:04 G	4430488.61	4430488.67	4430488.73	0.1633	0.1489
Saturn	7418-04-20 13:26 G	4430537.93	4430538.06	4430538.19	0.0277	0.0107
Saturn	7418-07-18 01:55 G	4430626.49	4430626.58	4430626.67	0.0278	0.0213
Earth	7419-01-11 17:02 G	4430804.10	4430804.21	4430804.31	0.2669	0.1086
Moon	7419-01-11 17:31 G	4430804.13	4430804.23	4430804.34	0.2673	0.1031 *
Mars	7419-01-12 13:26 G	4430804.97	4430805.06	4430805.16	0.1899	0.1190
Mars	7420-02-06 18:57 G	4431195.27	4431195.29	4431195.31	0.1652	0.1635
Jupiter	7420-09-16 11:16 G	4431417.94	4431417.97	4431418.01	0.0543	0.0522
Jupiter	7420-12-14 23:31 G	4431507.35	4431507.48	4431507.61	0.0543	0.0157
Jupiter	7426-10-30 03:36 G	4433652.48	4433652.65	4433652.82	0.0485	0.0040
Mars	7429-06-28 20:52 G	4434625.23	4434625.37	4434625.51	0.1647	0.0840

Mars 7430-05-10 14:23 G 4434941.01 4434941.10 4434941.19 0.1881 0.1200

Saturn 7431-11-16 15:50 G 4435496.03 4435496.16 4435496.30 0.0283 0.0171

Venus 7432-01-11 01:40 G 4435551.52 4435551.57 4435551.62 0.3680 0.3238

Earth 7432-01-14 11:16 G 4435554.86 4435554.97 4435555.09 0.2670 0.0387

Moon 7432-01-14 12:14 G 4435554.90 4435555.01 4435555.12 0.2670 0.0484 *

Saturn 7432-02-13 10:48 G 4435584.78 4435584.95 4435585.11 0.0283 0.0036

Saturn 7432-05-12 05:45 G 4435673.58 4435673.74 4435673.90 0.0282 0.0102

Saturn 7432-08-09 00:57 G 4435762.46 4435762.54 4435762.64 0.0282 0.0241

Jupiter 7432-10-03 02:52 G 4435817.48 4435817.62 4435817.75 0.0543 0.0001

Uranus 7436-12-11 16:04 G 4437348.08 4437348.17 4437348.27 0.0145 0.0120

Uranus 7437-03-09 23:02 G 4437436.34 4437436.46 4437436.61 0.0145 0.0093

Uranus 7437-06-06 06:28 G 4437524.62 4437524.77 4437524.94 0.0144 0.0065

Venus 7437-07-26 19:26 G 4437575.21 4437575.31 4437575.40 0.3681 0.1858

Uranus 7437-09-02 14:09 G 4437612.91 4437613.09 4437613.26 0.0144 0.0036

Uranus 7437-11-29 21:36 G 4437701.22 4437701.40 4437701.58 0.0144 0.0008

Uranus 7438-02-26 05:02 G 4437789.53 4437789.71 4437789.89 0.0144 0.0021

Uranus 7438-05-25 12:28 G 4437877.85 4437878.02 4437878.19 0.0144 0.0050

Jupiter 7438-08-18 03:50 G 4437962.51 4437962.66 4437962.82 0.0485 0.0188

Uranus 7438-08-21 19:55 G 4437966.18 4437966.33 4437966.49 0.0144 0.0079

Jupiter 7438-11-16 02:23 G 4438052.52 4438052.60 4438052.67 0.0485 0.0430

Uranus 7438-11-18 03:21 G 4438054.53 4438054.64 4438054.77 0.0144 0.0108

Mars 7438-11-18 23:02 G 4438055.30 4438055.46 4438055.62 0.1642 0.0067

Venus 7439-02-08 07:40 G 4438136.71 4438136.82 4438136.93 0.3690 0.2164

Uranus 7439-02-14 11:02 G 4438142.92 4438142.96 4438143.03 0.0144 0.0137

Mars 7439-09-30 22:19 G 4438371.31 4438371.43 4438371.54 0.1888 0.0452

Moon 7441-07-11 04:04 G 4439020.53 4439020.67 4439020.82 0.2668 0.0310

Earth 7441-07-11 05:02 G 4439020.56 4439020.71 4439020.86 0.2663 0.0251 *

Venus 7443-02-09 12:43 G 4439598.93 4439599.03 4439599.14 0.3681 0.0534

Jupiter 7444-07-22 05:45 G 4440127.61 4440127.74 4440127.87 0.0543 0.0162

Venus 7444-08-24 09:36 G 4440160.76 4440160.90 4440161.04 0.3689 0.0281

Jupiter 7444-10-19 17:16 G 4440217.17 4440217.22 4440217.27 0.0542 0.0498

Earth 7445-01-16 05:31 G 4440305.65 4440305.73 4440305.82 0.2672 0.1818

Moon 7445-01-16 06:00 G 4440305.67 4440305.75 4440305.83 0.2666 0.1900 *

Saturn 7446-12-15 23:31 G 4441004.43 4441004.48 4441004.53 0.0276 0.0258

Saturn 7447-03-14 12:43 G 4441092.91 4441093.03 4441093.15 0.0276 0.0148

Saturn 7447-06-11 01:40 G 4441181.43 4441181.57 4441181.71 0.0277 0.0040

Saturn 7447-09-07 14:23 G 4441269.96 4441270.10 4441270.24 0.0277 0.0068

Saturn 7447-12-05 02:52 G 4441358.52 4441358.62 4441358.73 0.0278 0.0174

Mars 7448-04-10 01:26 G 4441485.42 4441485.56 4441485.71 0.1637 0.0688

Venus 7448-08-25 06:14 G 4441622.65 4441622.76 4441622.86 0.3682 0.0807

Mars 7449-02-20 06:14 G 4441801.64 4441801.76 4441801.88 0.1894 0.0311

Venus 7450-03-10 12:14 G 4442184.93 4442185.01 4442185.10 0.3688 0.2874

Jupiter 7450-06-06 04:04 G 4442272.55 4442272.67 4442272.79 0.0485 0.0338

Jupiter 7450-09-04 01:55 G 4442362.44 4442362.58 4442362.72 0.0485 0.0273

Earth 7452-01-10 03:21 G 4442855.58 4442855.64 4442855.70 0.2667 0.2255

Moon 7452-01-10 03:36 G 4442855.60 4442855.65 4442855.71 0.2674 0.2298 *

Venus 7454-03-10 23:16 G 4443646.38 4443646.47 4443646.56 0.3683 0.2061

Earth 7454-07-14 09:36 G 4443771.83 4443771.90 4443771.96 0.2661 0.2381

Moon 7454-07-14 09:50 G 4443771.85 4443771.91 4443771.97 0.2668 0.2417 *

Jupiter 7456-05-10 08:09 G 4444437.74 4444437.84 4444437.95 0.0542 0.0333

Jupiter 7456-08-07 19:55 G 4444527.23 4444527.33 4444527.44 0.0542 0.0336

Mars 7457-08-31 04:33 G 4444915.61 4444915.69 4444915.77 0.1633 0.1402

Mars 7458-07-13 13:40 G 4445231.97 4445232.07 4445232.16 0.1899 0.1110

Venus 7459-09-24 16:04 G 4445670.13 4445670.17 4445670.22 0.3684 0.3288

Saturn 7461-04-04 15:50 G 4446228.05 4446228.16 4446228.27 0.0283 0.0211

Saturn 7461-07-02 10:33 G 4446316.78 4446316.94 4446317.10 0.0283 0.0077

Saturn 7461-09-29 05:31 G 4446405.56 4446405.73 4446405.89 0.0282 0.0059

Saturn 7461-12-27 00:43 G 4446494.41 4446494.53 4446494.65 0.0282 0.0198

Jupiter 7462-03-25 04:48 G 4446582.68 4446582.70 4446582.73 0.0485 0.0480

Jupiter 7462-06-23 02:09 G 4446672.43 4446672.59 4446672.76 0.0485 0.0124

Earth 7465-01-11 21:50 G 4447606.30 4447606.41 4447606.52 0.2669 0.0781

Moon 7465-01-11 22:33 G 4447606.33 4447606.44 4447606.55 0.2671 0.0633 *

Jupiter 7468-02-27 09:36 G 4448747.87 4448747.90 4448747.94 0.0542 0.0523

Jupiter 7468-05-26 21:50 G 4448837.28 4448837.41 4448837.54 0.0542 0.0155

Mars 7468-12-27 21:21 G 4449052.26 4449052.39 4449052.53 0.1647 0.0934

Mars 7469-11-08 14:23 G 4449368.01 4449368.10 4449368.18 0.1881 0.1270

Neptune 7472-09-24 03:21 G 4450418.61 4450418.64 4450418.70 0.0089 0.0084

Neptune 7472-12-21 05:16 G 4450506.66 4450506.72 4450506.80 0.0089 0.0076

Neptune 7473-03-19 07:11 G 4450594.71 4450594.80 4450594.89 0.0089 0.0069

Neptune 7473-06-15 08:38 G 4450682.77 4450682.86 4450682.98 0.0089 0.0062

Neptune 7473-09-11 10:33 G 4450770.83 4450770.94 4450771.06 0.0089 0.0054

Neptune 7473-12-08 12:14 G 4450858.89 4450859.01 4450859.14 0.0089 0.0046

Neptune 7474-03-06 13:55 G 4450946.96 4450947.08 4450947.21 0.0089 0.0039

Jupiter 7474-04-11 02:23 G 4450982.43 4450982.60 4450982.77 0.0485 0.0028

Neptune 7474-06-02 15:36 G 4451035.02 4451035.15 4451035.29 0.0089 0.0031

Moon 7474-07-09 05:45 G 4451071.68 4451071.74 4451071.81 0.2668 0.2370

Earth 7474-07-09 07:11 G 4451071.72 4451071.80 4451071.87 0.2664 0.2303 *

Neptune 7474-08-29 17:31 G 4451123.09 4451123.23 4451123.36 0.0089 0.0024

Neptune 7474-11-25 18:57 G 4451211.16 4451211.29 4451211.44 0.0089 0.0017

Neptune 7475-02-21 20:38 G 4451299.22 4451299.36 4451299.51 0.0089 0.0010

Neptune 7475-05-20 22:19 G 4451387.29 4451387.43 4451387.58 0.0089 0.0003

Neptune 7475-08-17 00:00 G 4451475.36 4451475.50 4451475.65 0.0089 0.0006

Neptune 7475-11-13 01:40 G 4451563.43 4451563.57 4451563.71 0.0089 0.0013

Neptune 7476-02-09 03:21 G 4451651.50 4451651.64 4451651.78 0.0089 0.0020

Neptune 7476-05-07 05:02 G 4451739.58 4451739.71 4451739.84 0.0089 0.0028

Saturn 7476-07-31 16:04 G 4451825.06 4451825.17 4451825.28 0.0276 0.0167

Neptune 7476-08-03 06:28 G 4451827.65 4451827.77 4451827.91 0.0089 0.0035

Saturn 7476-10-28 05:02 G 4451913.57 4451913.71 4451913.85 0.0277 0.0059

Neptune 7476-10-30 08:09 G 4451915.72 4451915.84 4451915.97 0.0089 0.0042

Saturn 7477-01-24 18:00 G 4452002.11 4452002.25 4452002.39 0.0277 0.0050

Neptune 7477-01-26 09:50 G 4452003.80 4452003.91 4452004.03 0.0089 0.0050

Saturn 7477-04-23 06:28 G 4452090.66 4452090.77 4452090.89 0.0277 0.0156

Neptune 7477-04-24 11:31 G 4452091.87 4452091.98 4452092.09 0.0089 0.0057

Saturn 7477-07-20 18:57 G 4452179.25 4452179.29 4452179.34 0.0278 0.0261

Neptune 7477-07-21 13:11 G 4452179.95 4452180.05 4452180.15 0.0089 0.0064

Neptune 7477-10-17 14:23 G 4452268.03 4452268.10 4452268.20 0.0089 0.0072

Neptune 7478-01-13 16:04 G 4452356.12 4452356.17 4452356.25 0.0089 0.0079

Earth 7478-01-14 16:19 G 4452357.07 4452357.18 4452357.29 0.2670 0.0681

Moon 7478-01-14 17:02 G 4452357.10 4452357.21 4452357.32 0.2670 0.0781 *

Neptune 7478-04-11 17:45 G 4452444.21 4452444.24 4452444.29 0.0089 0.0086

Mars 7478-05-19 23:45 G 4452482.32 4452482.49 4452482.65 0.1642 0.0164

Mars 7479-03-31 22:33 G 4452798.32 4452798.44 4452798.55 0.1887 0.0537

Uranus 7479-09-21 03:07 G 4452971.59 4452971.63 4452971.67 0.0134 0.0128

Uranus 7479-12-18 06:28 G 4453059.70 4453059.77 4453059.85 0.0134 0.0110

Jupiter 7480-03-15 00:43 G 4453147.39 4453147.53 4453147.66 0.0543 0.0022

Uranus 7480-03-15 09:50 G 4453147.82 4453147.91 4453148.02 0.0134 0.0093

Uranus 7480-06-11 13:11 G 4453235.95 4453236.05 4453236.17 0.0134 0.0076

Uranus 7480-09-07 16:48 G 4453324.08 4453324.20 4453324.33 0.0134 0.0058

Uranus 7480-12-04 20:09 G 4453412.21 4453412.34 4453412.48 0.0134 0.0041

Uranus 7481-03-02 23:31 G 4453500.35 4453500.48 4453500.62 0.0134 0.0024

Uranus 7481-05-30 02:52 G 4453588.49 4453588.62 4453588.76 0.0134 0.0007

Uranus 7481-08-26 06:14 G 4453676.63 4453676.76 4453676.90 0.0134 0.0012

Uranus 7481-11-22 09:36 G 4453764.77 4453764.90 4453765.04 0.0134 0.0028

Uranus 7482-02-18 12:57 G 4453852.91 4453853.04 4453853.17 0.0134 0.0046

Uranus 7482-05-17 16:19 G 4453941.06 4453941.18 4453941.30 0.0134 0.0063

Uranus 7482-08-13 19:26 G 4454029.21 4454029.31 4454029.42 0.0134 0.0080

Uranus 7482-11-09 22:48 G 4454117.36 4454117.45 4454117.54 0.0134 0.0097

Uranus 7483-02-06 01:55 G 4454205.52 4454205.58 4454205.66 0.0135 0.0114

Uranus 7483-05-05 05:02 G 4454293.69 4454293.71 4454293.75 0.0135 0.0131

Jupiter 7486-01-28 02:09 G 4455292.43 4455292.59 4455292.74 0.0485 0.0186

Jupiter	7486-04-28 00:28 G	4455382.44	4455382.52	4455382.59	0.0485	0.0432
Moon	7487-07-12 10:48 G	4455822.80	4455822.95	4455823.09	0.2668	0.0133
Earth	7487-07-12 11:16 G	4455822.82	4455822.97	4455823.12	0.2662	0.0261 *
Mars	7487-10-10 02:09 G	4455912.44	4455912.59	4455912.74	0.1638	0.0592
Venus	7488-08-16 23:45 G	4456224.42	4456224.49	4456224.56	0.3680	0.2795
Mars	7488-08-21 06:14 G	4456228.64	4456228.76	4456228.87	0.1893	0.0251
Saturn	7490-08-22 16:33 G	4456960.12	4456960.19	4456960.28	0.0283	0.0244
Saturn	7490-11-19 11:02 G	4457048.81	4457048.96	4457049.12	0.0283	0.0111
Earth	7491-01-17 10:33 G	4457107.87	4457107.94	4457108.00	0.2672	0.2116
Moon	7491-01-17 10:48 G	4457107.89	4457107.95	4457108.02	0.2666	0.2138 *
Saturn	7491-02-16 06:00 G	4457137.59	4457137.75	4457137.92	0.0283	0.0026
Saturn	7491-05-16 01:11 G	4457226.41	4457226.55	4457226.69	0.0282	0.0163
Jupiter	7492-01-02 03:36 G	4457457.52	4457457.65	4457457.78	0.0543	0.0172
Jupiter	7492-03-31 15:07 G	4457547.08	4457547.13	4457547.18	0.0543	0.0490
Venus	7494-03-02 17:16 G	4458248.12	4458248.22	4458248.33	0.3681	0.1431
Pluto	7495-07-25 18:00 G	4458758.15	4458758.25	4458758.34	0.0073	0.0061
Venus	7495-09-15 07:55 G	4458809.70	4458809.83	4458809.95	0.3689	0.1436
Pluto	7495-10-21 19:26 G	4458846.20	4458846.31	4458846.47	0.0073	0.0049
Pluto	7496-01-17 21:50 G	4458934.26	4458934.41	4458934.58	0.0072	0.0035
Pluto	7496-04-15 00:00 G	4459022.33	4459022.50	4459022.68	0.0072	0.0022
Pluto	7496-07-12 02:09 G	4459110.41	4459110.59	4459110.78	0.0072	0.0010
Pluto	7496-10-08 04:19 G	4459198.49	4459198.68	4459198.86	0.0072	0.0003
Pluto	7497-01-04 06:00 G	4459286.58	4459286.75	4459286.94	0.0072	0.0016
Mars	7497-03-01 05:02 G	4459342.62	4459342.71	4459342.80	0.1633	0.1318
Pluto	7497-04-02 08:09 G	4459374.68	4459374.84	4459375.02	0.0072	0.0028
Pluto	7497-06-29 10:19 G	4459462.78	4459462.93	4459463.08	0.0072	0.0040
Pluto	7497-09-25 11:45 G	4459550.89	4459550.99	4459551.14	0.0072	0.0053
Jupiter	7497-11-16 02:23 G	4459602.48	4459602.60	4459602.72	0.0485	0.0334
Pluto	7497-12-22 13:55 G	4459639.02	4459639.08	4459639.17	0.0071	0.0065
Earth	7498-01-10 08:23 G	4459657.77	4459657.85	4459657.93	0.2668	0.1943

Moon	7498-01-10 08:38 G	4459657.78	4459657.86	4459657.94	0.2674	0.1850	*
Mars	7498-01-11 13:40 G	4459658.97	4459659.07	4459659.17	0.1900	0.1036	
Jupiter	7498-02-14 00:14 G	4459692.37	4459692.51	4459692.65	0.0485	0.0276	
Venus	7499-09-16 10:48 G	4460271.84	4460271.95	4460272.06	0.3682	0.0111	
Venus	7501-04-01 09:50 G	4460833.78	4460833.91	4460834.05	0.3689	0.1047	
Jupiter	7503-10-22 06:28 G	4461767.67	4461767.77	4461767.88	0.0543	0.0335	
Jupiter	7504-01-19 18:14 G	4461857.16	4461857.26	4461857.37	0.0543	0.0335	
Venus	7505-04-02 04:04 G	4462295.57	4462295.67	4462295.77	0.3682	0.1199	
Saturn	7505-12-19 17:02 G	4462557.12	4462557.21	4462557.31	0.0276	0.0206	
Saturn	7506-03-18 06:14 G	4462645.62	4462645.76	4462645.89	0.0276	0.0097	
Saturn	7506-06-14 18:57 G	4462734.15	4462734.29	4462734.44	0.0277	0.0014	
Saturn	7506-09-11 07:40 G	4462822.70	4462822.82	4462822.95	0.0277	0.0119	
Venus	7506-10-16 12:43 G	4462858.03	4462858.03	4462858.04	0.3688	0.3687	
Saturn	7506-12-08 20:23 G	4462911.27	4462911.35	4462911.43	0.0278	0.0224	
Mars	7507-06-04 21:07 G	4463089.35	4463089.38	4463089.41	0.1905	0.1843	
Mars	7508-06-28 21:50 G	4463479.29	4463479.41	4463479.54	0.1647	0.1023	
Mars	7509-05-10 14:23 G	4463795.02	4463795.10	4463795.18	0.1881	0.1351	
Jupiter	7509-09-05 02:38 G	4463912.60	4463912.61	4463912.63	0.0485	0.0482	
Jupiter	7509-12-04 00:00 G	4464002.34	4464002.50	4464002.67	0.0485	0.0120	
Venus	7510-10-16 21:07 G	4464319.30	4464319.38	4464319.46	0.3683	0.2445	
Earth	7511-01-14 02:52 G	4464408.51	4464408.62	4464408.73	0.2669	0.0467	
Moon	7511-01-14 03:36 G	4464408.54	4464408.65	4464408.76	0.2671	0.0420	*
Jupiter	7515-08-10 08:52 G	4466077.83	4466077.87	4466077.92	0.0542	0.0507	
Jupiter	7515-11-07 21:07 G	4466167.25	4466167.38	4466167.51	0.0542	0.0170	
Venus	7516-05-01 13:55 G	4466343.08	4466343.08	4466343.09	0.3684	0.3666	
Mars	7517-11-19 00:14 G	4466909.35	4466909.51	4466909.67	0.1642	0.0247	
Mars	7518-09-30 22:33 G	4467225.33	4467225.44	4467225.55	0.1887	0.0608	
Saturn	7520-04-08 11:02 G	4467780.82	4467780.96	4467781.10	0.0283	0.0152	
Saturn	7520-07-06 05:45 G	4467869.57	4467869.74	4467869.91	0.0283	0.0017	
Moon	7520-07-10 12:00 G	4467873.91	4467874.00	4467874.10	0.2668	0.2055	

Earth 7520-07-10 13:11 G 4467873.95 4467874.05 4467874.16 0.2664 0.1796 *

Saturn 7520-10-03 00:57 G 4467958.38 4467958.54 4467958.69 0.0282 0.0120

Uranus 7520-10-05 16:33 G 4467961.15 4467961.19 4467961.23 0.0145 0.0140

Saturn 7520-12-30 20:09 G 4468047.29 4468047.34 4468047.41 0.0282 0.0260

Uranus 7521-01-01 23:31 G 4468049.38 4468049.48 4468049.60 0.0145 0.0113

Uranus 7521-03-31 06:43 G 4468137.65 4468137.78 4468137.93 0.0145 0.0085

Uranus 7521-06-27 14:09 G 4468225.93 4468226.09 4468226.26 0.0144 0.0056

Jupiter 7521-09-22 00:28 G 4468312.35 4468312.52 4468312.69 0.0485 0.0030

Uranus 7521-09-23 21:36 G 4468314.22 4468314.40 4468314.58 0.0144 0.0028

Uranus 7521-12-21 05:02 G 4468402.53 4468402.71 4468402.89 0.0144 0.0001

Uranus 7522-03-19 12:28 G 4468490.84 4468491.02 4468491.20 0.0144 0.0029

Uranus 7522-06-15 19:55 G 4468579.17 4468579.33 4468579.50 0.0144 0.0058

Uranus 7522-09-12 03:36 G 4468667.50 4468667.65 4468667.80 0.0144 0.0087

Uranus 7522-12-09 10:48 G 4468755.86 4468755.95 4468756.07 0.0144 0.0116

Earth 7524-01-16 21:07 G 4469159.28 4469159.38 4469159.49 0.2671 0.0985

Moon 7524-01-16 21:50 G 4469159.31 4469159.41 4469159.51 0.2668 0.1103 *

Mars 7527-04-11 02:52 G 4470339.46 4470339.62 4470339.77 0.1638 0.0504

Jupiter 7527-08-26 22:48 G 4470477.32 4470477.45 4470477.59 0.0542 0.0021

Mars 7528-02-21 06:14 G 4470655.64 4470655.76 4470655.88 0.1894 0.0165

Jupiter 7533-07-11 00:28 G 4472622.37 4472622.52 4472622.68 0.0485 0.0180

Moon 7533-07-13 17:16 G 4472625.08 4472625.22 4472625.36 0.2669 0.0845

Earth 7533-07-13 17:31 G 4472625.09 4472625.23 4472625.37 0.2662 0.0777 *

Jupiter 7533-10-08 23:02 G 4472712.39 4472712.46 4472712.53 0.0486 0.0440

Saturn 7535-05-08 20:23 G 4473289.27 4473289.35 4473289.43 0.0276 0.0225

Saturn 7535-08-05 09:36 G 4473377.77 4473377.90 4473378.03 0.0277 0.0116

Saturn 7535-11-01 22:33 G 4473466.30 4473466.44 4473466.58 0.0277 0.0007

Saturn 7536-01-29 11:16 G 4473554.84 4473554.97 4473555.10 0.0277 0.0100

Saturn 7536-04-26 23:45 G 4473643.40 4473643.49 4473643.59 0.0278 0.0206

Mars 7536-08-31 05:45 G 4473769.64 4473769.74 4473769.84 0.1633 0.1226

Earth 7537-01-18 15:21 G 4473910.10 4473910.14 4473910.19 0.2672 0.2412

Moon	7537-01-18 15:36 G	4473910.11	4473910.15	4473910.20	0.2666	0.2451	*
Mars	7537-07-13 13:55 G	4474085.97	4474086.08	4474086.18	0.1899	0.0955	
Jupiter	7539-06-15 01:26 G	4474787.43	4474787.56	4474787.69	0.0543	0.0185	
Jupiter	7539-09-12 12:57 G	4474876.98	4474877.04	4474877.10	0.0542	0.0477	
Earth	7544-01-12 13:11 G	4476459.97	4476460.05	4476460.14	0.2668	0.1632	
Moon	7544-01-12 13:40 G	4476459.98	4476460.07	4476460.16	0.2673	0.1629	*
Venus	7545-03-24 21:50 G	4476897.32	4476897.41	4476897.49	0.3681	0.2359	
Jupiter	7545-04-29 00:28 G	4476932.40	4476932.52	4476932.64	0.0485	0.0334	
Jupiter	7545-07-27 22:04 G	4477022.28	4477022.42	4477022.57	0.0485	0.0276	
Venus	7546-10-07 06:14 G	4477458.69	4477458.76	4477458.84	0.3690	0.3068	
Mars	7546-12-03 21:07 G	4477516.34	4477516.38	4477516.42	0.1905	0.1779	
Mars	7547-12-28 22:33 G	4477906.32	4477906.44	4477906.56	0.1647	0.1118	
Mars	7548-11-08 14:23 G	4478222.03	4478222.10	4478222.18	0.1881	0.1417	
Saturn	7549-08-26 12:28 G	4478512.90	4478513.02	4478513.15	0.0283	0.0180	
Saturn	7549-11-23 07:11 G	4478601.64	4478601.80	4478601.97	0.0283	0.0046	
Saturn	7550-02-20 02:23 G	4478690.44	4478690.60	4478690.76	0.0282	0.0092	
Saturn	7550-05-19 21:36 G	4478779.30	4478779.40	4478779.50	0.0282	0.0230	
Venus	7550-10-08 15:21 G	4478921.03	4478921.14	4478921.24	0.3681	0.1013	
Jupiter	7551-04-03 04:19 G	4479097.57	4479097.68	4479097.78	0.0543	0.0348	
Jupiter	7551-07-01 16:04 G	4479187.07	4479187.17	4479187.28	0.0543	0.0323	
Venus	7552-04-22 07:55 G	4479482.70	4479482.83	4479482.97	0.3689	0.0708	
Neptune	7554-12-15 06:57 G	4480449.77	4480449.79	4480449.86	0.0088	0.0085	
Neptune	7555-03-13 10:04 G	4480537.84	4480537.92	4480538.01	0.0088	0.0076	
Neptune	7555-06-09 12:28 G	4480625.93	4480626.02	4480626.14	0.0088	0.0068	
Neptune	7555-09-05 15:07 G	4480714.02	4480714.13	4480714.27	0.0088	0.0060	
Neptune	7555-12-02 18:00 G	4480802.12	4480802.25	4480802.40	0.0088	0.0051	
Neptune	7556-02-28 20:38 G	4480890.22	4480890.36	4480890.52	0.0088	0.0043	
Venus	7556-04-23 08:38 G	4480944.75	4480944.86	4480944.97	0.3682	0.0321	
Neptune	7556-05-26 23:31 G	4480978.33	4480978.48	4480978.65	0.0088	0.0034	
Neptune	7556-08-23 02:09 G	4481066.43	4481066.59	4481066.77	0.0088	0.0026	

Neptune 7556-11-19 05:02 G 4481154.54 4481154.71 4481154.89 0.0088 0.0017

Earth 7557-01-14 07:40 G 4481210.71 4481210.82 4481210.94 0.2669 0.0183

Moon 7557-01-14 08:23 G 4481210.74 4481210.85 4481210.97 0.2671 0.0110 *

Jupiter 7557-02-15 00:57 G 4481242.52 4481242.54 4481242.56 0.0485 0.0480

Neptune 7557-02-15 07:55 G 4481242.65 4481242.83 4481243.00 0.0088 0.0008

Neptune 7557-05-14 10:33 G 4481330.77 4481330.94 4481331.12 0.0088 0.0002

Jupiter 7557-05-15 22:04 G 4481332.26 4481332.42 4481332.59 0.0485 0.0121

Mars 7557-05-20 00:43 G 4481336.38 4481336.53 4481336.69 0.1642 0.0342

Neptune 7557-08-10 13:26 G 4481418.88 4481419.06 4481419.24 0.0088 0.0009

Venus 7557-11-06 10:19 G 4481506.81 4481506.93 4481507.05 0.3688 0.1826

Neptune 7557-11-06 16:04 G 4481507.00 4481507.17 4481507.35 0.0088 0.0018 *

Neptune 7558-02-02 18:57 G 4481595.12 4481595.29 4481595.46 0.0088 0.0026

Mars 7558-03-31 22:33 G 4481652.33 4481652.44 4481652.55 0.1888 0.0679

Neptune 7558-05-01 21:36 G 4481683.25 4481683.40 4481683.57 0.0088 0.0035

Neptune 7558-07-29 00:28 G 4481771.37 4481771.52 4481771.68 0.0088 0.0044

Neptune 7558-10-25 03:07 G 4481859.50 4481859.63 4481859.79 0.0088 0.0053

Neptune 7559-01-21 06:00 G 4481947.64 4481947.75 4481947.89 0.0088 0.0062

Neptune 7559-04-19 09:07 G 4482035.78 4482035.88 4482035.99 0.0088 0.0070

Neptune 7559-07-16 11:45 G 4482123.93 4482123.99 4482124.08 0.0088 0.0079

Venus 7561-11-07 01:55 G 4482968.48 4482968.58 4482968.68 0.3683 0.1592

Jupiter 7563-01-20 06:57 G 4483407.75 4483407.79 4483407.83 0.0543 0.0513

Jupiter 7563-04-19 19:11 G 4483497.18 4483497.30 4483497.43 0.0543 0.0167

Uranus 7563-10-12 10:33 G 4483672.90 4483672.94 4483673.01 0.0134 0.0122

Uranus 7564-01-08 14:09 G 4483761.01 4483761.09 4483761.19 0.0134 0.0104

Uranus 7564-04-05 17:45 G 4483849.14 4483849.24 4483849.35 0.0134 0.0086

Uranus 7564-07-02 21:07 G 4483937.27 4483937.38 4483937.50 0.0134 0.0069

Saturn 7564-09-24 21:21 G 4484021.36 4484021.39 4484021.44 0.0276 0.0262

Uranus 7564-09-29 00:28 G 4484025.40 4484025.52 4484025.65 0.0134 0.0052

Saturn 7564-12-22 10:48 G 4484109.83 4484109.95 4484110.07 0.0276 0.0152

Uranus 7564-12-26 04:04 G 4484113.53 4484113.67 4484113.80 0.0134 0.0034

Saturn 7565-03-20 23:45 G 4484198.35 4484198.49 4484198.63 0.0277 0.0044

Uranus 7565-03-24 07:26 G 4484201.67 4484201.81 4484201.94 0.0134 0.0017

Saturn 7565-06-17 12:28 G 4484286.89 4484287.02 4484287.16 0.0277 0.0064

Uranus 7565-06-20 10:48 G 4484289.81 4484289.95 4484290.08 0.0134 0.0003

Saturn 7565-09-14 01:11 G 4484375.44 4484375.55 4484375.66 0.0278 0.0170

Uranus 7565-09-16 14:09 G 4484377.95 4484378.09 4484378.22 0.0134 0.0018

Saturn 7565-12-11 13:26 G 4484464.05 4484464.06 4484464.09 0.0278 0.0275

Uranus 7565-12-13 17:16 G 4484466.09 4484466.22 4484466.36 0.0134 0.0035

Uranus 7566-03-11 20:38 G 4484554.24 4484554.36 4484554.49 0.0134 0.0052

Uranus 7566-06-07 23:45 G 4484642.38 4484642.49 4484642.62 0.0134 0.0070

Moon 7566-07-11 18:14 G 4484676.14 4484676.26 4484676.39 0.2668 0.1367

Earth 7566-07-11 19:26 G 4484676.18 4484676.31 4484676.44 0.2664 0.1299 *

Uranus 7566-09-04 03:07 G 4484730.53 4484730.63 4484730.74 0.0134 0.0086

Mars 7566-10-10 03:21 G 4484766.48 4484766.64 4484766.79 0.1638 0.0420

Uranus 7566-12-01 06:14 G 4484818.69 4484818.76 4484818.86 0.0134 0.0104

Uranus 7567-02-27 09:50 G 4484906.85 4484906.91 4484906.97 0.0135 0.0120

Venus 7567-05-23 18:57 G 4484992.22 4484992.29 4484992.35 0.3683 0.2833

Mars 7567-08-22 06:28 G 4485082.65 4485082.77 4485082.89 0.1893 0.0093

Jupiter 7569-03-03 22:04 G 4485642.25 4485642.42 4485642.59 0.0485 0.0033

Earth 7570-01-17 02:09 G 4485961.49 4485961.59 4485961.69 0.2671 0.1292

Moon 7570-01-17 02:38 G 4485961.51 4485961.61 4485961.71 0.2667 0.1320 *

Jupiter 7575-02-05 22:04 G 4487807.28 4487807.42 4487807.55 0.0542 0.0012

Mars 7576-03-01 06:14 G 4488196.65 4488196.76 4488196.87 0.1633 0.1142

Mars 7577-01-11 13:55 G 4488512.97 4488513.08 4488513.18 0.1899 0.0880

Saturn 7579-01-13 12:14 G 4489244.91 4489245.01 4489245.12 0.0283 0.0222

Saturn 7579-04-12 06:57 G 4489333.63 4489333.79 4489333.95 0.0283 0.0088

Saturn 7579-07-10 01:40 G 4489422.41 4489422.57 4489422.74 0.0282 0.0048

Moon 7579-07-14 23:45 G 4489427.36 4489427.49 4489427.62 0.2669 0.1192

Earth 7579-07-14 23:45 G 4489427.36 4489427.49 4489427.62 0.2662 0.1297 *

Saturn 7579-10-06 20:52 G 4489511.25 4489511.37 4489511.50 0.0282 0.0186

Jupiter 7580-12-20 22:33 G 4489952.28 4489952.44 4489952.59 0.0485 0.0181

Jupiter 7581-03-20 20:38 G 4490042.29 4490042.36 4490042.44 0.0486 0.0438

Mars 7586-06-03 21:21 G 4491943.33 4491943.39 4491943.44 0.1905 0.1693

Jupiter 7586-11-24 23:45 G 4492117.36 4492117.49 4492117.62 0.0542 0.0186

Jupiter 7587-02-22 11:02 G 4492206.90 4492206.96 4492207.03 0.0542 0.0475

Mars 7587-06-28 23:16 G 4492333.36 4492333.47 4492333.58 0.1648 0.1215

Mars 7588-05-09 14:23 G 4492649.03 4492649.10 4492649.17 0.1881 0.1493

Earth 7590-01-12 18:14 G 4493262.16 4493262.26 4493262.36 0.2668 0.1322

Moon 7590-01-12 18:43 G 4493262.18 4493262.28 4493262.39 0.2672 0.1200 *

Jupiter 7592-10-08 22:48 G 4494262.33 4494262.45 4494262.57 0.0486 0.0330

Jupiter 7593-01-06 20:23 G 4494352.22 4494352.35 4494352.50 0.0486 0.0282

Saturn 7594-05-11 14:09 G 4494841.98 4494842.09 4494842.20 0.0277 0.0172

Saturn 7594-08-08 03:07 G 4494930.49 4494930.63 4494930.77 0.0277 0.0063

Saturn 7594-11-04 16:04 G 4495019.03 4495019.17 4495019.31 0.0277 0.0046

Saturn 7595-02-01 04:48 G 4495107.58 4495107.70 4495107.82 0.0278 0.0152

Saturn 7595-04-30 17:16 G 4495196.17 4495196.22 4495196.27 0.0278 0.0258

Venus 7596-04-15 02:09 G 4495546.54 4495546.59 4495546.63 0.3680 0.3312

Mars 7596-11-18 01:26 G 4495763.40 4495763.56 4495763.72 0.1643 0.0432

Mars 7597-09-29 22:33 G 4496079.33 4496079.44 4496079.55 0.1887 0.0756

Jupiter 7598-09-13 01:55 G 4496427.48 4496427.58 4496427.68 0.0542 0.0360

Jupiter 7598-12-11 13:55 G 4496516.97 4496517.08 4496517.19 0.0542 0.0310

Venus 7601-10-29 19:40 G 4497570.23 4497570.32 4497570.42 0.3681 0.1935

Earth 7603-01-15 12:43 G 4498012.92 4498013.03 4498013.14 0.2669 0.0152

Moon 7603-01-15 13:26 G 4498012.95 4498013.06 4498013.17 0.2671 0.0189 *

Venus 7603-05-14 06:28 G 4498131.66 4498131.77 4498131.87 0.3689 0.2368

Jupiter 7604-07-27 22:48 G 4498572.44 4498572.45 4498572.46 0.0485 0.0482

Jupiter 7604-10-25 19:55 G 4498662.16 4498662.33 4498662.50 0.0485 0.0119

Uranus 7604-10-26 00:00 G 4498662.44 4498662.50 4498662.58 0.0145 0.0132 *

Uranus 7605-01-22 07:26 G 4498750.69 4498750.81 4498750.94 0.0145 0.0104

Uranus 7605-04-20 14:38 G 4498838.96 4498839.11 4498839.27 0.0145 0.0076

Uranus	7605-07-17 22:04 G	4498927.25	4498927.42	4498927.59	0.0144	0.0048
Uranus	7605-10-14 05:31 G	4499015.55	4499015.73	4499015.91	0.0144	0.0019
Uranus	7606-01-10 12:57 G	4499103.86	4499104.04	4499104.22	0.0144	0.0009
Uranus	7606-04-08 20:23 G	4499192.17	4499192.35	4499192.52	0.0144	0.0038
Mars	7606-04-10 03:50 G	4499193.51	4499193.66	4499193.82	0.1638	0.0326
Uranus	7606-07-06 03:50 G	4499280.50	4499280.66	4499280.82	0.0144	0.0066
Uranus	7606-10-02 11:16 G	4499368.84	4499368.97	4499369.11	0.0144	0.0095
Uranus	7606-12-29 18:57 G	4499457.20	4499457.29	4499457.38	0.0144	0.0124
Mars	7607-02-20 06:28 G	4499509.65	4499509.77	4499509.88	0.1893	0.0069
Venus	7607-05-15 13:11 G	4499593.94	4499594.05	4499594.16	0.3682	0.0598
Saturn	7608-06-01 14:23 G	4499977.03	4499977.10	4499977.19	0.0283	0.0245
Saturn	7608-08-29 08:52 G	4500065.72	4500065.87	4500066.03	0.0283	0.0113
Saturn	7608-11-26 03:50 G	4500154.49	4500154.66	4500154.83	0.0282	0.0023
Venus	7608-11-27 08:23 G	4500155.71	4500155.85	4500155.98	0.3689	0.0118
Saturn	7609-02-22 22:48 G	4500243.32	4500243.45	4500243.59	0.0282	0.0160
Jupiter	7610-07-02 04:33 G	4500737.66	4500737.69	4500737.72	0.0543	0.0528
Jupiter	7610-09-29 17:02 G	4500827.08	4500827.21	4500827.34	0.0543	0.0152
Moon	7612-07-12 00:57 G	4501478.40	4501478.54	4501478.67	0.2669	0.0947
Earth	7612-07-12 01:40 G	4501478.43	4501478.57	4501478.71	0.2664	0.0791 *
Venus	7612-11-28 06:43 G	4501617.67	4501617.78	4501617.88	0.3682	0.0730
Venus	7614-06-13 10:48 G	4502179.86	4502179.95	4502180.05	0.3688	0.2615
Mars	7615-08-31 06:43 G	4502623.66	4502623.78	4502623.90	0.1633	0.1057
Earth	7616-01-18 06:57 G	4502763.70	4502763.79	4502763.88	0.2671	0.1592
Moon	7616-01-18 07:26 G	4502763.73	4502763.81	4502763.90	0.2666	0.1729 *
Mars	7616-07-12 13:55 G	4502939.97	4502940.08	4502940.19	0.1899	0.0802
Jupiter	7616-08-13 19:55 G	4502972.17	4502972.33	4502972.50	0.0485	0.0036
Venus	7618-06-13 23:45 G	4503641.40	4503641.49	4503641.58	0.3683	0.1985
Jupiter	7622-07-18 19:55 G	4505137.20	4505137.33	4505137.47	0.0543	0.0020
Moon	7623-01-11 04:33 G	4505313.66	4505313.69	4505313.73	0.2673	0.2489
Earth	7623-01-11 04:33 G	4505313.66	4505313.69	4505313.73	0.2666	0.2496 *

Saturn 7623-09-28 15:21 G 4505574.05 4505574.14 4505574.24 0.0276 0.0208

Saturn 7623-12-26 04:33 G 4505662.56 4505662.69 4505662.82 0.0276 0.0098

Venus 7623-12-28 16:48 G 4505665.15 4505665.20 4505665.25 0.3683 0.3217

Saturn 7624-03-23 17:31 G 4505751.09 4505751.23 4505751.37 0.0277 0.0010

Saturn 7624-06-20 06:14 G 4505839.63 4505839.76 4505839.89 0.0277 0.0117

Saturn 7624-09-16 18:43 G 4505928.20 4505928.28 4505928.37 0.0278 0.0222

Earth 7625-07-15 06:00 G 4506229.64 4506229.75 4506229.86 0.2662 0.1811

Moon 7625-07-15 06:00 G 4506229.65 4506229.75 4506229.85 0.2669 0.1907 *

Mars 7625-12-02 21:21 G 4506370.33 4506370.39 4506370.45 0.1904 0.1613

Mars 7626-12-27 23:45 G 4506760.39 4506760.49 4506760.59 0.1647 0.1301

Mars 7627-11-08 14:38 G 4507076.05 4507076.11 4507076.17 0.1881 0.1568

Jupiter 7628-06-01 19:55 G 4507282.18 4507282.33 4507282.49 0.0485 0.0187

Jupiter 7628-08-30 18:14 G 4507372.18 4507372.26 4507372.34 0.0485 0.0431

Jupiter 7634-05-06 22:33 G 4509447.32 4509447.44 4509447.57 0.0543 0.0176

Jupiter 7634-08-04 10:04 G 4509536.87 4509536.92 4509536.98 0.0542 0.0487

Earth 7636-01-13 23:16 G 4510064.36 4510064.47 4510064.57 0.2668 0.1014

Moon 7636-01-13 23:45 G 4510064.39 4510064.49 4510064.60 0.2672 0.0966 *

Mars 7636-05-19 01:55 G 4510190.43 4510190.58 4510190.73 0.1643 0.0522

Mars 7637-03-30 22:48 G 4510506.34 4510506.45 4510506.55 0.1887 0.0835

Neptune 7637-06-22 02:09 G 4510589.56 4510589.59 4510589.66 0.0089 0.0084

Neptune 7637-09-18 04:04 G 4510677.60 4510677.67 4510677.75 0.0089 0.0076

Neptune 7637-12-15 05:45 G 4510765.66 4510765.74 4510765.84 0.0089 0.0068

Saturn 7638-01-16 08:23 G 4510797.71 4510797.85 4510797.99 0.0283 0.0156

Neptune 7638-03-13 07:40 G 4510853.72 4510853.82 4510853.93 0.0089 0.0061

Saturn 7638-04-15 03:07 G 4510886.46 4510886.63 4510886.80 0.0283 0.0022

Neptune 7638-06-09 09:07 G 4510941.78 4510941.88 4510942.01 0.0089 0.0054

Saturn 7638-07-12 22:04 G 4510975.27 4510975.42 4510975.58 0.0282 0.0116

Neptune 7638-09-05 11:02 G 4511029.84 4511029.96 4511030.09 0.0089 0.0046

Saturn 7638-10-09 17:31 G 4511064.16 4511064.23 4511064.31 0.0282 0.0254

Neptune 7638-12-02 12:43 G 4511117.91 4511118.03 4511118.17 0.0089 0.0038

Neptune 7639-02-28 14:23 G 4511205.97 4511206.10 4511206.24 0.0089 0.0031

Neptune 7639-05-27 16:04 G 4511294.04 4511294.17 4511294.32 0.0089 0.0024

Neptune 7639-08-23 18:00 G 4511382.11 4511382.25 4511382.39 0.0089 0.0016

Neptune 7639-11-19 19:40 G 4511470.17 4511470.32 4511470.46 0.0089 0.0008

Neptune 7640-02-15 21:21 G 4511558.24 4511558.39 4511558.53 0.0089 0.0002

Jupiter 7640-03-20 20:38 G 4511592.24 4511592.36 4511592.48 0.0485 0.0332

Neptune 7640-05-13 23:02 G 4511646.31 4511646.46 4511646.60 0.0089 0.0007

Jupiter 7640-06-18 18:14 G 4511682.12 4511682.26 4511682.40 0.0486 0.0278

Neptune 7640-08-10 00:28 G 4511734.38 4511734.52 4511734.67 0.0089 0.0014

Neptune 7640-11-06 02:09 G 4511822.46 4511822.59 4511822.73 0.0089 0.0021

Neptune 7641-02-02 03:50 G 4511910.53 4511910.66 4511910.80 0.0089 0.0028

Neptune 7641-05-01 05:31 G 4511998.60 4511998.73 4511998.86 0.0089 0.0036

Neptune 7641-07-28 07:11 G 4512086.68 4512086.80 4512086.92 0.0089 0.0043

Neptune 7641-10-24 08:38 G 4512174.75 4512174.86 4512174.98 0.0089 0.0050

Neptune 7642-01-20 10:19 G 4512262.83 4512262.93 4512263.04 0.0089 0.0057

Neptune 7642-04-18 11:45 G 4512350.91 4512350.99 4512351.10 0.0089 0.0065

Neptune 7642-07-15 13:26 G 4512438.99 4512439.06 4512439.15 0.0089 0.0072

Neptune 7642-10-11 15:07 G 4512527.07 4512527.13 4512527.20 0.0089 0.0079

Neptune 7643-01-07 16:48 G 4512615.17 4512615.20 4512615.24 0.0089 0.0086

Mars 7645-10-09 04:33 G 4513620.53 4513620.69 4513620.85 0.1638 0.0233

Jupiter 7646-02-23 00:14 G 4513757.41 4513757.51 4513757.61 0.0542 0.0361

Jupiter 7646-05-23 12:14 G 4513846.90 4513847.01 4513847.12 0.0542 0.0309

Mars 7646-08-21 06:28 G 4513936.65 4513936.77 4513936.89 0.1893 0.0065

Uranus 7647-08-05 15:07 G 4514286.12 4514286.13 4514286.15 0.0134 0.0132

Uranus 7647-11-01 18:28 G 4514374.21 4514374.27 4514374.35 0.0134 0.0115

Uranus 7648-01-28 22:04 G 4514462.33 4514462.42 4514462.52 0.0134 0.0097

Uranus 7648-04-26 01:26 G 4514550.45 4514550.56 4514550.68 0.0134 0.0080

Uranus 7648-07-23 05:02 G 4514638.59 4514638.71 4514638.83 0.0134 0.0062

Uranus 7648-10-19 08:23 G 4514726.72 4514726.85 4514726.98 0.0134 0.0045

Uranus 7649-01-15 11:45 G 4514814.86 4514814.99 4514815.13 0.0134 0.0027

Earth	7649-01-15 17:31 G	4514815.12	4514815.23	4514815.35	0.2670	0.0460	*
Moon	7649-01-15 18:14 G	4514815.15	4514815.26	4514815.37	0.2669	0.0615	*
Uranus	7649-04-13 15:07 G	4514902.99	4514903.13	4514903.27	0.0134	0.0010	
Uranus	7649-07-10 18:28 G	4514991.13	4514991.27	4514991.41	0.0134	0.0007	
Uranus	7649-10-06 21:50 G	4515079.27	4515079.41	4515079.54	0.0134	0.0025	
Uranus	7650-01-03 00:57 G	4515167.42	4515167.54	4515167.68	0.0134	0.0042	
Uranus	7650-04-01 04:19 G	4515255.56	4515255.68	4515255.81	0.0134	0.0059	
Uranus	7650-06-28 07:40 G	4515343.71	4515343.82	4515343.93	0.0134	0.0076	
Uranus	7650-09-24 10:48 G	4515431.86	4515431.95	4515432.05	0.0134	0.0093	
Uranus	7650-12-21 14:09 G	4515520.02	4515520.09	4515520.17	0.0134	0.0110	
Uranus	7651-03-19 17:16 G	4515608.19	4515608.22	4515608.27	0.0135	0.0127	
Jupiter	7652-01-07 21:07 G	4515902.36	4515902.38	4515902.40	0.0486	0.0480	
Jupiter	7652-04-06 18:14 G	4515992.09	4515992.26	4515992.42	0.0486	0.0123	
Venus	7652-11-20 00:14 G	4516219.44	4516219.51	4516219.57	0.3680	0.2877	
Saturn	7653-02-14 18:28 G	4516306.19	4516306.27	4516306.35	0.0276	0.0228	
Saturn	7653-05-14 07:40 G	4516394.69	4516394.82	4516394.95	0.0277	0.0119	
Saturn	7653-08-10 20:52 G	4516483.22	4516483.37	4516483.51	0.0277	0.0012	
Saturn	7653-11-07 09:36 G	4516571.77	4516571.90	4516572.03	0.0278	0.0098	
Saturn	7654-02-03 22:19 G	4516660.33	4516660.43	4516660.52	0.0278	0.0204	
Mars	7655-03-01 07:26 G	4517050.68	4517050.81	4517050.93	0.1633	0.0969	
Mars	7656-01-11 13:55 G	4517366.98	4517367.08	4517367.19	0.1899	0.0730	
Pluto	7657-10-02 17:31 G	4517997.22	4517997.23	4517997.24	0.0071	0.0070	
Jupiter	7657-12-12 02:23 G	4518067.59	4518067.60	4518067.62	0.0542	0.0537	
Pluto	7657-12-29 18:00 G	4518085.20	4518085.25	4518085.33	0.0071	0.0062	
Jupiter	7658-03-11 14:52 G	4518156.99	4518157.12	4518157.25	0.0542	0.0141	
Pluto	7658-03-27 18:43 G	4518173.20	4518173.28	4518173.38	0.0071	0.0053	
Venus	7658-06-05 17:45 G	4518243.14	4518243.24	4518243.34	0.3681	0.1504	
Pluto	7658-06-23 19:26 G	4518261.22	4518261.31	4518261.43	0.0071	0.0045	
Moon	7658-07-13 07:11 G	4518280.66	4518280.80	4518280.95	0.2670	0.0355	
Earth	7658-07-13 07:55 G	4518280.68	4518280.83	4518280.98	0.2664	0.0283	*

Pluto	7658-09-19 20:23 G	4518349.24	4518349.35	4518349.48	0.0071	0.0035	
Pluto	7658-12-16 21:07 G	4518437.26	4518437.38	4518437.52	0.0071	0.0027	
Pluto	7659-03-14 22:04 G	4518525.29	4518525.42	4518525.56	0.0072	0.0017	
Pluto	7659-06-10 23:02 G	4518613.32	4518613.46	4518613.59	0.0072	0.0008	
Pluto	7659-09-06 23:45 G	4518701.35	4518701.49	4518701.63	0.0072	0.0001	
Pluto	7659-12-04 00:28 G	4518789.39	4518789.52	4518789.66	0.0072	0.0011	
Venus	7659-12-19 06:28 G	4518804.65	4518804.77	4518804.89	0.3689	0.1644	
Pluto	7660-03-01 01:26 G	4518877.43	4518877.56	4518877.69	0.0072	0.0020	
Pluto	7660-05-28 01:55 G	4518965.47	4518965.58	4518965.72	0.0072	0.0030	
Pluto	7660-08-24 02:52 G	4519053.51	4519053.62	4519053.74	0.0072	0.0039	
Pluto	7660-11-20 03:36 G	4519141.56	4519141.65	4519141.76	0.0072	0.0049	
Pluto	7661-02-16 04:33 G	4519229.62	4519229.69	4519229.78	0.0073	0.0059	
Pluto	7661-05-15 05:16 G	4519317.69	4519317.72	4519317.78	0.0073	0.0069	
Earth	7662-01-18 11:45 G	4519565.92	4519565.99	4519566.07	0.2671	0.1899	
Moon	7662-01-18 12:28 G	4519565.94	4519566.02	4519566.10	0.2666	0.1903	*
Venus	7663-12-20 11:16 G	4520266.86	4520266.97	4520267.08	0.3682	0.0181	
Jupiter	7664-01-24 17:45 G	4520302.07	4520302.24	4520302.41	0.0485	0.0037	
Mars	7665-06-02 21:21 G	4520797.32	4520797.39	4520797.46	0.1905	0.1541	
Venus	7665-07-04 08:38 G	4520828.73	4520828.86	4520829.00	0.3688	0.0816	
Mars	7666-06-28 00:28 G	4521187.44	4521187.52	4521187.60	0.1648	0.1403	
Mars	7667-05-09 14:38 G	4521503.05	4521503.11	4521503.16	0.1881	0.1640	
Saturn	7667-06-05 10:48 G	4521529.83	4521529.95	4521530.08	0.0283	0.0178	
Saturn	7667-09-02 05:31 G	4521618.57	4521618.73	4521618.90	0.0283	0.0044	
Saturn	7667-11-30 00:28 G	4521707.36	4521707.52	4521707.68	0.0282	0.0092	
Saturn	7668-02-26 19:40 G	4521796.23	4521796.32	4521796.42	0.0282	0.0230	
Earth	7669-01-11 09:36 G	4522115.84	4522115.90	4522115.96	0.2667	0.2183	
Moon	7669-01-11 09:50 G	4522115.84	4522115.91	4522115.98	0.2673	0.2141	*
Venus	7669-07-05 04:33 G	4522290.58	4522290.69	4522290.79	0.3682	0.1125	
Jupiter	7669-12-28 17:45 G	4522467.10	4522467.24	4522467.37	0.0543	0.0025	
Venus	7671-01-18 11:16 G	4522852.92	4522852.97	4522853.02	0.3688	0.3420	

Earth 7671-07-16 12:14 G 4523031.94 4523032.01 4523032.08 0.2662 0.2334

Moon 7671-07-16 12:28 G 4523031.95 4523032.02 4523032.09 0.2668 0.2294 *

Venus 7675-01-18 21:36 G 4524314.32 4524314.40 4524314.48 0.3683 0.2377

Jupiter 7675-11-12 18:00 G 4524612.10 4524612.25 4524612.41 0.0485 0.0186

Mars 7675-11-18 02:38 G 4524617.46 4524617.61 4524617.76 0.1643 0.0615

Jupiter 7676-02-10 16:04 G 4524702.10 4524702.17 4524702.25 0.0485 0.0430

Mars 7676-09-28 22:33 G 4524933.34 4524933.44 4524933.55 0.1887 0.0903

Venus 7680-08-03 14:38 G 4526338.09 4526338.11 4526338.13 0.3684 0.3599

Jupiter 7681-10-16 20:38 G 4526777.23 4526777.36 4526777.49 0.0543 0.0183

Earth 7682-01-14 04:04 G 4526866.56 4526866.67 4526866.78 0.2668 0.0700

Moon 7682-01-14 04:48 G 4526866.59 4526866.70 4526866.81 0.2672 0.0584 *

Jupiter 7682-01-14 08:09 G 4526866.78 4526866.84 4526866.90 0.0543 0.0481 *

Saturn 7682-07-04 19:55 G 4527038.29 4527038.33 4527038.38 0.0276 0.0263

Saturn 7682-10-01 09:21 G 4527126.77 4527126.89 4527127.01 0.0276 0.0153

Saturn 7682-12-28 22:19 G 4527215.29 4527215.43 4527215.57 0.0276 0.0045

Saturn 7683-03-27 11:16 G 4527303.83 4527303.97 4527304.11 0.0277 0.0063

Saturn 7683-06-23 23:45 G 4527392.38 4527392.49 4527392.61 0.0277 0.0169

Saturn 7683-09-20 12:14 G 4527480.99 4527481.01 4527481.04 0.0278 0.0274

Mars 7685-04-09 04:48 G 4528047.54 4528047.70 4528047.86 0.1638 0.0159

Mars 7686-02-19 06:28 G 4528363.66 4528363.77 4528363.89 0.1893 0.0163

Jupiter 7687-08-31 18:14 G 4528922.14 4528922.26 4528922.38 0.0485 0.0337

Jupiter 7687-11-29 15:50 G 4529012.02 4529012.16 4529012.30 0.0485 0.0272

Uranus 7688-11-15 07:11 G 4529363.73 4529363.80 4529363.90 0.0145 0.0126

Uranus 7689-02-11 14:38 G 4529451.98 4529452.11 4529452.24 0.0145 0.0098

Uranus 7689-05-10 21:50 G 4529540.26 4529540.41 4529540.57 0.0145 0.0070

Uranus 7689-08-07 05:16 G 4529628.55 4529628.72 4529628.89 0.0144 0.0042

Uranus 7689-11-03 12:43 G 4529716.85 4529717.03 4529717.21 0.0144 0.0013

Uranus 7690-01-30 20:09 G 4529805.16 4529805.34 4529805.52 0.0144 0.0016

Uranus 7690-04-29 03:21 G 4529893.47 4529893.64 4529893.82 0.0144 0.0044

Uranus 7690-07-26 11:02 G 4529981.80 4529981.96 4529982.12 0.0144 0.0073

Uranus 7690-10-22 18:28 G 4530070.14 4530070.27 4530070.40 0.0144 0.0101

Uranus 7691-01-19 01:55 G 4530158.51 4530158.58 4530158.67 0.0144 0.0130

Moon 7691-07-11 08:52 G 4530331.83 4530331.87 4530331.92 0.2668 0.2519

Earth 7691-07-11 10:19 G 4530331.85 4530331.93 4530332.00 0.2665 0.2305 *

Jupiter 7693-08-04 23:16 G 4531087.36 4531087.47 4531087.57 0.0543 0.0352

Jupiter 7693-11-02 11:16 G 4531176.86 4531176.97 4531177.07 0.0542 0.0320

Mars 7694-08-30 07:55 G 4531477.70 4531477.83 4531477.97 0.1634 0.0878

Earth 7695-01-16 22:33 G 4531617.33 4531617.44 4531617.55 0.2670 0.0762

Moon 7695-01-16 23:16 G 4531617.36 4531617.47 4531617.58 0.2667 0.0816 *

Mars 7695-07-12 14:09 G 4531793.98 4531794.09 4531794.20 0.1899 0.0648

Saturn 7696-10-22 10:04 G 4532261.82 4532261.92 4532262.02 0.0283 0.0223

Saturn 7697-01-19 04:33 G 4532350.54 4532350.69 4532350.85 0.0283 0.0090

Saturn 7697-04-17 23:31 G 4532439.31 4532439.48 4532439.65 0.0282 0.0046

Saturn 7697-07-15 18:43 G 4532528.15 4532528.28 4532528.41 0.0282 0.0183

Jupiter 7699-06-19 18:57 G 4533232.27 4533232.29 4533232.30 0.0485 0.0482

Jupiter 7699-09-17 16:04 G 4533322.00 4533322.17 4533322.33 0.0485 0.0121

Mars 7704-01-21 11:02 G 4534907.93 4534907.96 4534908.00 0.1629 0.1589

Moon 7704-07-14 13:40 G 4535082.92 4535083.07 4535083.22 0.2670 0.0173

Earth 7704-07-14 14:09 G 4535082.94 4535083.09 4535083.24 0.2663 0.0250 *

Mars 7704-12-02 21:36 G 4535224.32 4535224.40 4535224.47 0.1904 0.1462

Jupiter 7705-05-25 00:57 G 4535397.52 4535397.54 4535397.55 0.0542 0.0536

Jupiter 7705-08-22 13:11 G 4535486.92 4535487.05 4535487.18 0.0542 0.0143

Mars 7705-12-28 00:57 G 4535614.48 4535614.54 4535614.61 0.1648 0.1497

Mars 7706-11-08 14:38 G 4535930.06 4535930.11 4535930.15 0.1881 0.1710

Earth 7708-01-20 16:48 G 4536368.14 4536368.20 4536368.26 0.2671 0.2194

Moon 7708-01-20 17:16 G 4536368.16 4536368.22 4536368.27 0.2666 0.2307 *

Venus 7709-06-27 22:04 G 4536892.34 4536892.42 4536892.51 0.3681 0.2438

Venus 7711-01-10 05:16 G 4537453.66 4537453.72 4537453.78 0.3690 0.3250

Jupiter 7711-07-07 16:04 G 4537632.00 4537632.17 4537632.34 0.0486 0.0035

Saturn 7712-02-19 12:14 G 4537858.90 4537859.01 4537859.12 0.0277 0.0176

Saturn 7712-05-18 01:11 G 4537947.41 4537947.55 4537947.69 0.0277 0.0067

Saturn 7712-08-14 14:09 G 4538035.95 4538036.09 4538036.23 0.0277 0.0042

Saturn 7712-11-11 02:52 G 4538124.50 4538124.62 4538124.74 0.0278 0.0148

Saturn 7713-02-07 15:21 G 4538213.09 4538213.14 4538213.20 0.0278 0.0254

Venus 7715-01-11 15:50 G 4538916.05 4538916.16 4538916.26 0.3681 0.1081

Earth 7715-01-13 14:38 G 4538918.03 4538918.11 4538918.19 0.2667 0.1872

Moon 7715-01-13 14:52 G 4538918.04 4538918.12 4538918.20 0.2673 0.1860 *

Mars 7715-05-20 03:07 G 4539044.49 4539044.63 4539044.78 0.1643 0.0707

Mars 7716-03-30 22:48 G 4539360.35 4539360.45 4539360.55 0.1887 0.0981

Venus 7716-07-26 06:57 G 4539477.65 4539477.79 4539477.92 0.3689 0.0909

Jupiter 7717-06-10 15:36 G 4539797.02 4539797.15 4539797.29 0.0542 0.0032

Neptune 7719-09-12 05:16 G 4540620.68 4540620.72 4540620.79 0.0088 0.0083

Neptune 7719-12-09 07:55 G 4540708.76 4540708.83 4540708.94 0.0088 0.0075

Neptune 7720-03-06 10:48 G 4540796.85 4540796.95 4540797.07 0.0088 0.0066

Neptune 7720-06-02 13:26 G 4540884.94 4540885.06 4540885.20 0.0088 0.0058

Venus 7720-07-27 09:07 G 4540939.77 4540939.88 4540939.99 0.3682 0.0280

Neptune 7720-08-29 16:04 G 4540973.04 4540973.17 4540973.32 0.0088 0.0050

Neptune 7720-11-25 18:57 G 4541061.14 4541061.29 4541061.45 0.0088 0.0041

Neptune 7721-02-21 21:36 G 4541149.24 4541149.40 4541149.57 0.0088 0.0033

Neptune 7721-05-21 00:28 G 4541237.35 4541237.52 4541237.69 0.0088 0.0024

Neptune 7721-08-17 03:07 G 4541325.46 4541325.63 4541325.81 0.0088 0.0016

Neptune 7721-11-13 06:00 G 4541413.57 4541413.75 4541413.92 0.0088 0.0007

Neptune 7722-02-09 08:38 G 4541501.69 4541501.86 4541502.04 0.0088 0.0003

Venus 7722-02-09 09:07 G 4541501.75 4541501.88 4541502.00 0.3688 0.1593 *

Neptune 7722-05-08 11:16 G 4541589.80 4541589.97 4541590.15 0.0088 0.0011

Neptune 7722-08-04 14:09 G 4541677.92 4541678.09 4541678.27 0.0088 0.0019

Neptune 7722-10-31 16:48 G 4541766.04 4541766.20 4541766.38 0.0088 0.0028

Neptune 7723-01-27 19:40 G 4541854.17 4541854.32 4541854.49 0.0088 0.0037

Jupiter 7723-04-25 15:50 G 4541942.00 4541942.16 4541942.31 0.0485 0.0189

Neptune 7723-04-25 22:33 G 4541942.29 4541942.44 4541942.60 0.0088 0.0045 *

Neptune 7723-07-23 01:26 G 4542030.42 4542030.56 4542030.70 0.0088 0.0054

Jupiter 7723-07-24 13:55 G 4542032.00 4542032.08 4542032.16 0.0485 0.0427

Neptune 7723-10-19 04:04 G 4542118.56 4542118.67 4542118.81 0.0088 0.0063

Neptune 7724-01-15 06:43 G 4542206.70 4542206.78 4542206.90 0.0088 0.0072

Neptune 7724-04-12 09:36 G 4542294.85 4542294.90 4542294.99 0.0088 0.0081

Mars 7724-10-09 05:45 G 4542474.57 4542474.74 4542474.90 0.1638 0.0070

Mars 7725-08-21 06:28 G 4542790.66 4542790.77 4542790.89 0.1893 0.0217

Venus 7726-02-10 02:23 G 4542963.50 4542963.60 4542963.70 0.3683 0.1525

Saturn 7726-03-12 12:43 G 4542993.95 4542994.03 4542994.12 0.0283 0.0244

Saturn 7726-06-09 07:11 G 4543082.65 4543082.80 4543082.96 0.0283 0.0111

Saturn 7726-09-06 01:55 G 4543171.42 4543171.58 4543171.75 0.0282 0.0025

Saturn 7726-12-03 21:07 G 4543260.24 4543260.38 4543260.52 0.0282 0.0161

Earth 7728-01-16 09:07 G 4543668.76 4543668.88 4543668.99 0.2668 0.0396

Moon 7728-01-16 09:36 G 4543668.79 4543668.90 4543669.02 0.2671 0.0320 *

Jupiter 7729-03-29 18:14 G 4544107.13 4544107.26 4544107.39 0.0543 0.0197

Jupiter 7729-06-27 06:00 G 4544196.68 4544196.75 4544196.81 0.0543 0.0468

Venus 7731-08-26 19:26 G 4544987.24 4544987.31 4544987.38 0.3683 0.2769

Uranus 7731-08-26 22:48 G 4544987.41 4544987.45 4544987.50 0.0134 0.0126

Uranus 7731-11-23 02:23 G 4545075.52 4545075.60 4545075.68 0.0134 0.0108

Uranus 7732-02-19 05:45 G 4545163.64 4545163.74 4545163.84 0.0134 0.0091

Uranus 7732-05-17 09:07 G 4545251.77 4545251.88 4545252.00 0.0134 0.0073

Uranus 7732-08-13 12:28 G 4545339.90 4545340.02 4545340.15 0.0134 0.0056

Uranus 7732-11-09 15:50 G 4545428.04 4545428.16 4545428.30 0.0134 0.0039

Uranus 7733-02-05 19:26 G 4545516.17 4545516.31 4545516.45 0.0134 0.0021

Uranus 7733-05-04 22:48 G 4545604.31 4545604.45 4545604.59 0.0134 0.0004

Uranus 7733-08-01 02:09 G 4545692.45 4545692.59 4545692.73 0.0134 0.0013

Uranus 7733-10-28 05:31 G 4545780.59 4545780.73 4545780.86 0.0134 0.0031

Uranus 7734-01-24 08:38 G 4545868.74 4545868.86 4545868.99 0.0134 0.0048

Mars 7734-03-01 08:23 G 4545904.71 4545904.85 4545904.99 0.1634 0.0796

Uranus 7734-04-22 12:00 G 4545956.88 4545957.00 4545957.12 0.0134 0.0065

Uranus 7734-07-19 15:21 G 4546045.03 4546045.14 4546045.25 0.0134 0.0082

Uranus 7734-10-15 18:28 G 4546133.18 4546133.27 4546133.37 0.0134 0.0099

Mars 7735-01-11 14:09 G 4546220.98 4546221.09 4546221.20 0.1899 0.0573

Uranus 7735-01-11 21:36 G 4546221.34 4546221.40 4546221.48 0.0135 0.0116

Jupiter 7735-02-11 16:19 G 4546252.06 4546252.18 4546252.30 0.0485 0.0336

Uranus 7735-04-10 00:43 G 4546309.52 4546309.53 4546309.57 0.0135 0.0133

Jupiter 7735-05-12 13:40 G 4546341.93 4546342.07 4546342.22 0.0485 0.0272

Moon 7737-07-12 15:21 G 4547134.03 4547134.14 4547134.24 0.2669 0.1874

Earth 7737-07-12 16:19 G 4547134.07 4547134.18 4547134.29 0.2665 0.1813 *

Jupiter 7741-01-15 21:07 G 4548417.28 4548417.38 4548417.48 0.0543 0.0360

Earth 7741-01-18 03:21 G 4548419.54 4548419.64 4548419.75 0.2670 0.1066

Moon 7741-01-18 04:04 G 4548419.57 4548419.67 4548419.77 0.2667 0.1202 *

Jupiter 7741-04-15 09:07 G 4548506.77 4548506.88 4548506.99 0.0543 0.0313

Saturn 7741-07-08 13:40 G 4548590.98 4548591.07 4548591.17 0.0276 0.0210

Saturn 7741-10-05 02:52 G 4548679.49 4548679.62 4548679.76 0.0276 0.0101

Saturn 7742-01-01 15:50 G 4548768.02 4548768.16 4548768.30 0.0277 0.0008

Saturn 7742-03-31 04:33 G 4548856.57 4548856.69 4548856.82 0.0277 0.0114

Saturn 7742-06-27 17:16 G 4548945.13 4548945.22 4548945.30 0.0278 0.0219

Mars 7743-07-22 11:31 G 4549334.93 4549334.98 4549335.04 0.1630 0.1507

Pluto 7743-08-23 00:43 G 4549366.44 4549366.53 4549366.64 0.0073 0.0061

Pluto 7743-11-19 02:52 G 4549454.49 4549454.62 4549454.77 0.0073 0.0048

Pluto 7744-02-15 05:02 G 4549542.55 4549542.71 4549542.88 0.0072 0.0035

Pluto 7744-05-13 07:11 G 4549630.62 4549630.80 4549630.98 0.0072 0.0022

Mars 7744-06-02 21:36 G 4549651.32 4549651.40 4549651.49 0.1904 0.1378

Pluto 7744-08-09 09:07 G 4549718.70 4549718.88 4549719.07 0.0072 0.0009

Pluto 7744-11-05 11:16 G 4549806.79 4549806.97 4549807.16 0.0072 0.0004

Pluto 7745-02-01 13:11 G 4549894.88 4549895.05 4549895.24 0.0072 0.0016

Pluto 7745-04-30 15:07 G 4549982.97 4549983.13 4549983.31 0.0072 0.0029

Mars 7745-06-28 01:40 G 4550041.52 4550041.57 4550041.61 0.1648 0.1585

Pluto 7745-07-27 17:16 G 4550071.07 4550071.22 4550071.38 0.0072 0.0041

Pluto	7745-10-23 18:57 G	4550159.19	4550159.29	4550159.43	0.0072	0.0054	
Pluto	7746-01-19 20:52 G	4550247.32	4550247.37	4550247.46	0.0071	0.0066	
Mars	7746-05-09 14:38 G	4550357.08	4550357.11	4550357.15	0.1881	0.1793	
Jupiter	7746-11-30 16:33 G	4550562.19	4550562.19	4550562.20	0.0485	0.0484	
Jupiter	7747-02-28 13:40 G	4550651.90	4550652.07	4550652.23	0.0485	0.0116	
Moon	7750-07-15 19:55 G	4551885.19	4551885.33	4551885.47	0.2670	0.0673	
Earth	7750-07-15 20:23 G	4551885.21	4551885.35	4551885.50	0.2663	0.0753	*
Jupiter	7752-11-03 23:45 G	4552727.46	4552727.49	4552727.51	0.0543	0.0529	
Jupiter	7753-02-01 12:00 G	4552816.88	4552817.00	4552817.13	0.0543	0.0153	
Earth	7754-01-20 21:36 G	4553170.37	4553170.40	4553170.44	0.2671	0.2500	
Moon	7754-01-20 21:50 G	4553170.38	4553170.41	4553170.45	0.2665	0.2477	*
Mars	7754-11-18 03:36 G	4553471.51	4553471.65	4553471.79	0.1643	0.0797	
Mars	7755-09-29 22:48 G	4553787.36	4553787.45	4553787.55	0.1887	0.1054	
Saturn	7755-10-27 06:00 G	4553814.62	4553814.75	4553814.89	0.0283	0.0159	
Saturn	7756-01-24 00:43 G	4553903.36	4553903.53	4553903.70	0.0283	0.0025	
Saturn	7756-04-21 19:40 G	4553992.17	4553992.32	4553992.48	0.0282	0.0111	
Saturn	7756-07-19 14:52 G	4554081.05	4554081.12	4554081.21	0.0282	0.0250	
Jupiter	7758-12-17 13:55 G	4554961.91	4554962.08	4554962.25	0.0485	0.0034	
Venus	7760-07-19 02:23 G	4555541.56	4555541.60	4555541.64	0.3680	0.3388	
Earth	7761-01-13 19:26 G	4555720.22	4555720.31	4555720.40	0.2667	0.1562	
Moon	7761-01-13 19:55 G	4555720.23	4555720.33	4555720.42	0.2673	0.1461	*
Mars	7764-04-09 06:14 G	4556901.60	4556901.76	4556901.92	0.1638	0.0037	
Jupiter	7764-11-20 14:09 G	4557126.96	4557127.09	4557127.23	0.0542	0.0029	
Mars	7765-02-19 06:43 G	4557217.66	4557217.78	4557217.89	0.1893	0.0296	
Venus	7766-02-01 20:09 G	4557565.25	4557565.34	4557565.44	0.3681	0.2002	
Venus	7767-08-17 05:16 G	4558126.62	4558126.72	4558126.82	0.3689	0.2546	
Jupiter	7770-10-05 13:55 G	4559271.93	4559272.08	4559272.24	0.0486	0.0187	
Saturn	7770-11-25 16:19 G	4559323.10	4559323.18	4559323.25	0.0276	0.0236	
Jupiter	7771-01-03 12:00 G	4559361.93	4559362.00	4559362.09	0.0486	0.0432	
Saturn	7771-02-22 05:31 G	4559411.60	4559411.73	4559411.86	0.0277	0.0126	

Saturn	7771-05-21 18:28 G	4559500.13	4559500.27	4559500.42	0.0277	0.0018
Saturn	7771-08-18 07:26 G	4559588.67	4559588.81	4559588.94	0.0278	0.0090
Venus	7771-08-18 13:40 G	4559588.97	4559589.07	4559589.18	0.3682	0.0669
Saturn	7771-11-14 19:55 G	4559677.24	4559677.33	4559677.43	0.0278	0.0196
Uranus	7772-09-09 08:09 G	4559976.84	4559976.84	4559976.85	0.0145	0.0144
Uranus	7772-12-06 15:21 G	4560065.04	4560065.14	4560065.24	0.0145	0.0117
Venus	7773-03-02 07:11 G	4560150.66	4560150.80	4560150.93	0.3689	0.0193
Uranus	7773-03-04 22:19 G	4560153.30	4560153.43	4560153.58	0.0145	0.0089
Uranus	7773-06-01 05:31 G	4560241.58	4560241.73	4560241.90	0.0145	0.0062
Uranus	7773-08-28 12:57 G	4560329.87	4560330.04	4560330.22	0.0144	0.0033
Mars	7773-08-30 09:07 G	4560331.73	4560331.88	4560332.02	0.1634	0.0703
Uranus	7773-11-24 20:23 G	4560418.17	4560418.35	4560418.53	0.0144	0.0005
Earth	7774-01-16 13:55 G	4560470.97	4560471.08	4560471.20	0.2668	0.0091
Moon	7774-01-16 14:38 G	4560471.00	4560471.11	4560471.23	0.2669	0.0055 *
Uranus	7774-02-21 03:50 G	4560506.48	4560506.66	4560506.84	0.0144	0.0024
Uranus	7774-05-20 11:16 G	4560594.80	4560594.97	4560595.14	0.0144	0.0052
Mars	7774-07-12 14:23 G	4560647.98	4560648.10	4560648.21	0.1899	0.0497
Uranus	7774-08-16 18:28 G	4560683.13	4560683.27	4560683.43	0.0144	0.0081
Uranus	7774-11-13 01:55 G	4560771.48	4560771.58	4560771.71	0.0144	0.0110
Uranus	7775-02-09 09:50 G	4560859.87	4560859.91	4560859.96	0.0144	0.0138
Jupiter	7776-09-08 16:33 G	4561437.06	4561437.19	4561437.32	0.0542	0.0199
Jupiter	7776-12-07 04:04 G	4561526.61	4561526.67	4561526.74	0.0542	0.0464
Venus	7777-03-03 07:11 G	4561612.69	4561612.80	4561612.91	0.3682	0.0655
Venus	7778-09-16 09:36 G	4562174.79	4562174.90	4562175.00	0.3688	0.2375
Jupiter	7782-07-24 14:09 G	4563581.97	4563582.09	4563582.21	0.0485	0.0338
Venus	7782-09-17 00:14 G	4563636.42	4563636.51	4563636.60	0.3683	0.1918
Jupiter	7782-10-22 11:31 G	4563671.84	4563671.98	4563672.13	0.0485	0.0271
Mars	7783-01-20 12:14 G	4563761.93	4563762.01	4563762.08	0.1629	0.1419
Moon	7783-07-13 21:36 G	4563936.28	4563936.40	4563936.52	0.2670	0.1536
Earth	7783-07-13 22:33 G	4563936.31	4563936.44	4563936.57	0.2665	0.1309 *

Mars	7783-12-02 21:36 G	4564078.31	4564078.40	4564078.48	0.1904	0.1312
Saturn	7785-03-15 08:38 G	4564546.73	4564546.86	4564546.99	0.0283	0.0181
Saturn	7785-06-12 03:07 G	4564635.47	4564635.63	4564635.80	0.0283	0.0048
Saturn	7785-09-08 22:04 G	4564724.26	4564724.42	4564724.58	0.0282	0.0089
Mars	7785-11-07 14:38 G	4564784.10	4564784.11	4564784.13	0.1880	0.1856
Saturn	7785-12-06 17:16 G	4564813.13	4564813.22	4564813.32	0.0282	0.0226
Earth	7787-01-19 08:23 G	4565221.75	4565221.85	4565221.94	0.2670	0.1372
Moon	7787-01-19 08:52 G	4565221.78	4565221.87	4565221.97	0.2667	0.1444 *
Venus	7788-04-01 17:16 G	4565660.17	4565660.22	4565660.28	0.3684	0.3152
Jupiter	7788-06-27 18:43 G	4565747.19	4565747.28	4565747.38	0.0543	0.0373
Jupiter	7788-09-25 06:57 G	4565836.68	4565836.79	4565836.90	0.0543	0.0302
Jupiter	7794-05-12 14:52 G	4567892.10	4567892.12	4567892.14	0.0485	0.0481
Mars	7794-05-19 04:19 G	4567898.55	4567898.68	4567898.82	0.1643	0.0891
Jupiter	7794-08-10 11:45 G	4567981.83	4567981.99	4567982.16	0.0485	0.0119
Mars	7795-03-30 22:48 G	4568214.36	4568214.45	4568214.55	0.1887	0.1128
Moon	7796-07-16 02:23 G	4568687.48	4568687.60	4568687.73	0.2669	0.1297
Earth	7796-07-16 02:38 G	4568687.48	4568687.61	4568687.74	0.2663	0.1264 *
Saturn	7800-04-14 17:45 G	4570055.22	4570055.24	4570055.28	0.0275	0.0268
Jupiter	7800-04-16 21:36 G	4570057.39	4570057.40	4570057.42	0.0543	0.0537
Saturn	7800-07-12 07:11 G	4570143.68	4570143.80	4570143.92	0.0276	0.0159
Jupiter	7800-07-15 10:04 G	4570146.79	4570146.92	4570147.05	0.0543	0.0146
Saturn	7800-10-08 20:23 G	4570232.21	4570232.35	4570232.49	0.0276	0.0051
Saturn	7801-01-05 09:07 G	4570320.74	4570320.88	4570321.02	0.0277	0.0057
Saturn	7801-04-03 21:50 G	4570409.30	4570409.41	4570409.53	0.0277	0.0162
Saturn	7801-07-01 10:19 G	4570497.90	4570497.93	4570497.97	0.0278	0.0267
Neptune	7802-03-21 01:11 G	4570760.51	4570760.55	4570760.62	0.0089	0.0082
Neptune	7802-06-17 03:07 G	4570848.56	4570848.63	4570848.71	0.0089	0.0075
Neptune	7802-09-13 04:33 G	4570936.61	4570936.69	4570936.80	0.0089	0.0068
Neptune	7802-12-10 06:28 G	4571024.67	4571024.77	4571024.89	0.0089	0.0060
Neptune	7803-03-08 08:23 G	4571112.73	4571112.85	4571112.97	0.0089	0.0052

Neptune 7803-06-04 10:04 G 4571200.80 4571200.92 4571201.05 0.0089 0.0044

Neptune 7803-08-31 11:45 G 4571288.86 4571288.99 4571289.13 0.0089 0.0037

Mars 7803-10-10 06:43 G 4571328.62 4571328.78 4571328.94 0.1638 0.0122

Neptune 7803-11-27 13:26 G 4571376.93 4571377.06 4571377.20 0.0089 0.0029

Neptune 7804-02-23 15:07 G 4571465.00 4571465.13 4571465.28 0.0089 0.0022

Neptune 7804-05-21 17:02 G 4571553.07 4571553.21 4571553.35 0.0089 0.0015

Neptune 7804-08-17 18:43 G 4571641.13 4571641.28 4571641.42 0.0089 0.0007

Mars 7804-08-21 06:43 G 4571644.67 4571644.78 4571644.90 0.1893 0.0376

Neptune 7804-11-13 20:23 G 4571729.20 4571729.35 4571729.49 0.0089 0.0002

Neptune 7805-02-09 21:50 G 4571817.27 4571817.41 4571817.56 0.0089 0.0009

Neptune 7805-05-08 23:31 G 4571905.35 4571905.48 4571905.63 0.0089 0.0016

Neptune 7805-08-05 01:11 G 4571993.42 4571993.55 4571993.69 0.0089 0.0023

Neptune 7805-11-01 02:52 G 4572081.49 4572081.62 4572081.76 0.0089 0.0030

Neptune 7806-01-28 04:19 G 4572169.56 4572169.68 4572169.82 0.0089 0.0038

Neptune 7806-04-26 06:00 G 4572257.64 4572257.75 4572257.88 0.0089 0.0045

Jupiter 7806-05-30 11:45 G 4572291.82 4572291.99 4572292.16 0.0485 0.0036

Neptune 7806-07-23 07:40 G 4572345.71 4572345.82 4572345.94 0.0089 0.0052

Neptune 7806-10-19 09:21 G 4572433.79 4572433.89 4572434.00 0.0089 0.0059

Neptune 7807-01-15 11:02 G 4572521.87 4572521.96 4572522.06 0.0089 0.0066

Earth 7807-01-16 00:28 G 4572522.42 4572522.52 4572522.62 0.2667 0.1246

Moon 7807-01-16 00:57 G 4572522.44 4572522.54 4572522.64 0.2673 0.1244 *

Neptune 7807-04-13 12:28 G 4572609.95 4572610.02 4572610.11 0.0089 0.0073

Neptune 7807-07-10 13:55 G 4572698.04 4572698.08 4572698.16 0.0089 0.0081

Neptune 7807-10-06 15:36 G 4572786.14 4572786.15 4572786.19 0.0089 0.0088

Jupiter 7812-05-03 13:11 G 4574456.91 4574457.05 4574457.18 0.0543 0.0021

Mars 7813-03-01 09:36 G 4574758.75 4574758.90 4574759.05 0.1634 0.0617

Mars 7814-01-11 14:23 G 4575074.98 4575075.10 4575075.21 0.1899 0.0427

Saturn 7814-08-03 06:57 G 4575278.70 4575278.79 4575278.89 0.0284 0.0231

Saturn 7814-10-31 01:26 G 4575367.41 4575367.56 4575367.72 0.0283 0.0099

Saturn 7815-01-27 20:23 G 4575456.18 4575456.35 4575456.51 0.0283 0.0037

Saturn	7815-04-26 15:21 G	4575545.01	4575545.14	4575545.28	0.0282	0.0174
Uranus	7815-09-17 06:14 G	4575688.71	4575688.76	4575688.83	0.0134	0.0120
Uranus	7815-12-14 09:50 G	4575776.83	4575776.91	4575777.01	0.0134	0.0102
Uranus	7816-03-11 13:11 G	4575864.95	4575865.05	4575865.17	0.0134	0.0085
Uranus	7816-06-07 16:48 G	4575953.08	4575953.20	4575953.32	0.0134	0.0067
Uranus	7816-09-03 20:09 G	4576041.22	4576041.34	4576041.47	0.0134	0.0050
Uranus	7816-11-30 23:45 G	4576129.35	4576129.49	4576129.62	0.0134	0.0032
Venus	7817-02-24 00:28 G	4576214.46	4576214.52	4576214.59	0.3681	0.2945
Uranus	7817-02-27 03:07 G	4576217.49	4576217.63	4576217.76	0.0134	0.0015
Uranus	7817-05-26 06:28 G	4576305.63	4576305.77	4576305.90	0.0134	0.0004
Uranus	7817-08-22 09:36 G	4576393.77	4576393.90	4576394.04	0.0134	0.0020
Uranus	7817-11-18 12:57 G	4576481.91	4576482.04	4576482.18	0.0134	0.0037
Uranus	7818-02-14 16:19 G	4576570.06	4576570.18	4576570.31	0.0134	0.0054
Jupiter	7818-03-18 12:14 G	4576601.85	4576602.01	4576602.16	0.0485	0.0184
Uranus	7818-05-13 19:40 G	4576658.20	4576658.32	4576658.44	0.0134	0.0071
Jupiter	7818-06-16 10:04 G	4576691.85	4576691.92	4576692.00	0.0486	0.0433
Uranus	7818-08-09 23:02 G	4576746.35	4576746.46	4576746.56	0.0134	0.0088
Uranus	7818-11-06 02:09 G	4576834.51	4576834.59	4576834.68	0.0135	0.0105
Uranus	7819-02-02 05:16 G	4576922.67	4576922.72	4576922.78	0.0135	0.0122
Earth	7820-01-18 18:57 G	4577273.17	4577273.29	4577273.40	0.2669	0.0237
Moon	7820-01-18 19:40 G	4577273.21	4577273.32	4577273.43	0.2669	0.0377 *
Mars	7822-07-22 12:43 G	4578188.94	4578189.03	4578189.12	0.1630	0.1332
Venus	7822-09-09 18:14 G	4578238.16	4578238.26	4578238.36	0.3681	0.1574
Mars	7823-06-03 21:50 G	4578505.32	4578505.41	4578505.50	0.1904	0.1224
Jupiter	7824-02-20 15:21 G	4578767.01	4578767.14	4578767.26	0.0542	0.0194
Venus	7824-03-24 05:31 G	4578799.61	4578799.73	4578799.84	0.3689	0.1840
Jupiter	7824-05-20 02:52 G	4578856.56	4578856.62	4578856.68	0.0542	0.0470
Venus	7828-03-25 11:45 G	4580261.88	4580261.99	4580262.10	0.3682	0.0238
Moon	7829-07-15 03:50 G	4580738.52	4580738.66	4580738.79	0.2670	0.0841
Earth	7829-07-15 04:48 G	4580738.56	4580738.70	4580738.84	0.2664	0.0812 *

Venus	7829-10-08 07:26 G	4580823.67	4580823.81	4580823.94	0.3688	0.0595	
Saturn	7829-11-29 09:21 G	4580875.78	4580875.89	4580876.00	0.0276	0.0188	
Jupiter	7830-01-04 12:28 G	4580911.90	4580912.02	4580912.14	0.0486	0.0333	
Saturn	7830-02-25 22:33 G	4580964.30	4580964.44	4580964.58	0.0277	0.0079	
Jupiter	7830-04-04 10:04 G	4581001.78	4581001.92	4581002.06	0.0486	0.0276	
Saturn	7830-05-25 11:31 G	4581052.84	4581052.98	4581053.12	0.0277	0.0030	
Saturn	7830-08-22 00:14 G	4581141.39	4581141.51	4581141.63	0.0278	0.0136	
Saturn	7830-11-18 12:43 G	4581229.96	4581230.03	4581230.10	0.0278	0.0241	
Earth	7833-01-20 13:11 G	4582023.96	4582024.05	4582024.14	0.2670	0.1671	
Moon	7833-01-20 13:55 G	4582023.99	4582024.08	4582024.16	0.2666	0.1753	*
Venus	7833-10-09 05:02 G	4582285.60	4582285.71	4582285.81	0.3683	0.1048	
Mars	7833-11-18 05:02 G	4582325.58	4582325.71	4582325.83	0.1643	0.0985	
Mars	7834-09-29 23:02 G	4582641.37	4582641.46	4582641.55	0.1887	0.1204	
Venus	7835-04-24 09:50 G	4582847.84	4582847.91	4582847.98	0.3688	0.3155	
Jupiter	7835-12-09 17:31 G	4583077.13	4583077.23	4583077.33	0.0542	0.0368	
Jupiter	7836-03-08 05:31 G	4583166.62	4583166.73	4583166.84	0.0542	0.0304	
Venus	7839-04-24 22:04 G	4584309.34	4584309.42	4584309.51	0.3683	0.2314	
Earth	7840-01-14 10:48 G	4584573.91	4584573.95	4584574.00	0.2666	0.2422	
Moon	7840-01-14 11:02 G	4584573.92	4584573.96	4584574.00	0.2673	0.2479	*
Jupiter	7841-10-23 12:57 G	4585222.02	4585222.04	4585222.06	0.0485	0.0481	
Jupiter	7842-01-21 09:50 G	4585311.74	4585311.91	4585312.07	0.0485	0.0119	
Earth	7842-07-18 08:52 G	4585489.76	4585489.87	4585489.98	0.2663	0.1779	
Moon	7842-07-18 09:07 G	4585489.77	4585489.88	4585489.99	0.2669	0.1731	*
Mars	7843-04-10 07:11 G	4585755.64	4585755.80	4585755.96	0.1638	0.0218	
Saturn	7843-12-21 09:21 G	4586010.82	4586010.89	4586010.96	0.0284	0.0255	
Mars	7844-02-20 06:43 G	4586071.67	4586071.78	4586071.89	0.1893	0.0438	
Saturn	7844-03-19 03:50 G	4586099.51	4586099.66	4586099.81	0.0283	0.0123	
Saturn	7844-06-15 22:33 G	4586188.27	4586188.44	4586188.61	0.0283	0.0012	
Saturn	7844-09-12 17:31 G	4586277.09	4586277.23	4586277.38	0.0282	0.0149	
Venus	7844-11-07 15:07 G	4586333.10	4586333.13	4586333.16	0.3684	0.3524	

Jupiter 7847-12-26 08:09 G 4587476.71 4587476.84 4587476.97 0.0543 0.0137

Mars 7852-08-30 10:04 G 4589185.77 4589185.92 4589186.07 0.1634 0.0532

Earth 7853-01-16 05:16 G 4589324.62 4589324.72 4589324.83 0.2667 0.0937

Moon 7853-01-16 06:00 G 4589324.64 4589324.75 4589324.86 0.2671 0.0796 *

Mars 7853-07-12 14:23 G 4589501.98 4589502.10 4589502.22 0.1899 0.0341

Jupiter 7853-11-09 10:04 G 4589621.75 4589621.92 4589622.09 0.0485 0.0032

Uranus 7856-09-30 15:36 G 4590678.10 4590678.15 4590678.21 0.0145 0.0137

Uranus 7856-12-27 22:33 G 4590766.34 4590766.44 4590766.57 0.0145 0.0110

Uranus 7857-03-26 06:00 G 4590854.60 4590854.75 4590854.90 0.0145 0.0082

Uranus 7857-06-22 13:11 G 4590942.89 4590943.05 4590943.22 0.0144 0.0054

Uranus 7857-09-18 20:38 G 4591031.18 4591031.36 4591031.54 0.0144 0.0026

Uranus 7857-12-16 03:50 G 4591119.48 4591119.66 4591119.84 0.0144 0.0004

Uranus 7858-03-14 11:16 G 4591207.79 4591207.97 4591208.15 0.0144 0.0031

Uranus 7858-06-10 18:43 G 4591296.12 4591296.28 4591296.45 0.0144 0.0059

Uranus 7858-09-07 01:55 G 4591384.45 4591384.58 4591384.74 0.0144 0.0089

Uranus 7858-12-04 09:21 G 4591472.80 4591472.89 4591473.01 0.0144 0.0117

Saturn 7859-04-18 11:02 G 4591607.88 4591607.96 4591608.05 0.0275 0.0220

Saturn 7859-07-16 00:14 G 4591696.38 4591696.51 4591696.65 0.0276 0.0111

Saturn 7859-10-12 13:11 G 4591784.91 4591785.05 4591785.20 0.0276 0.0010

Jupiter 7859-10-14 11:16 G 4591786.83 4591786.97 4591787.10 0.0543 0.0029

Saturn 7860-01-09 02:09 G 4591873.46 4591873.59 4591873.72 0.0277 0.0103

Saturn 7860-04-06 14:38 G 4591962.02 4591962.11 4591962.20 0.0277 0.0208

Mars 7862-01-20 13:11 G 4592615.95 4592616.05 4592616.15 0.1630 0.1250

Mars 7862-12-02 21:50 G 4592932.32 4592932.41 4592932.51 0.1904 0.1148

Jupiter 7865-08-28 10:19 G 4593931.77 4593931.93 4593932.09 0.0485 0.0182

Jupiter 7865-11-26 08:09 G 4594021.77 4594021.84 4594021.92 0.0485 0.0433

Earth 7866-01-18 23:45 G 4594075.38 4594075.49 4594075.60 0.2669 0.0536

Moon 7866-01-19 00:28 G 4594075.41 4594075.52 4594075.64 0.2669 0.0605 *

Jupiter 7871-08-02 13:55 G 4596096.96 4596097.08 4596097.21 0.0543 0.0186

Jupiter 7871-10-31 01:40 G 4596186.51 4596186.57 4596186.63 0.0543 0.0480

Mars 7873-05-19 05:31 G 4596752.61 4596752.73 4596752.85 0.1643 0.1076

Saturn 7873-08-06 01:55 G 4596831.45 4596831.58 4596831.71 0.0283 0.0175

Venus 7873-09-30 22:33 G 4596887.36 4596887.44 4596887.52 0.3681 0.2514

Saturn 7873-11-02 20:23 G 4596920.19 4596920.35 4596920.52 0.0283 0.0042

Saturn 7874-01-30 15:21 G 4597008.98 4597009.14 4597009.30 0.0283 0.0094

Mars 7874-03-30 23:02 G 4597068.37 4597068.46 4597068.54 0.1886 0.1279

Saturn 7874-04-29 10:33 G 4597097.85 4597097.94 4597098.04 0.0282 0.0232

Venus 7875-04-15 04:04 G 4597448.62 4597448.67 4597448.72 0.3690 0.3435

Moon 7875-07-16 10:04 G 4597540.78 4597540.92 4597541.07 0.2670 0.0498

Earth 7875-07-16 11:02 G 4597540.81 4597540.96 4597541.10 0.2664 0.0301 *

Jupiter 7877-06-16 10:48 G 4598241.83 4598241.95 4598242.08 0.0485 0.0328

Jupiter 7877-09-14 08:09 G 4598331.71 4598331.84 4598331.99 0.0485 0.0281

Earth 7879-01-21 18:14 G 4598826.18 4598826.26 4598826.33 0.2670 0.1976

Moon 7879-01-21 18:28 G 4598826.20 4598826.27 4598826.34 0.2665 0.2058 *

Venus 7879-04-16 16:19 G 4598911.07 4598911.18 4598911.28 0.3682 0.1154

Venus 7880-10-29 05:31 G 4599472.60 4599472.73 4599472.86 0.3689 0.1114

Mars 7882-10-09 07:55 G 4600182.67 4600182.83 4600182.99 0.1638 0.0306

Jupiter 7883-05-21 16:19 G 4600407.08 4600407.18 4600407.28 0.0542 0.0360

Jupiter 7883-08-19 04:19 G 4600496.57 4600496.68 4600496.79 0.0542 0.0312

Mars 7883-08-21 06:43 G 4600498.67 4600498.78 4600498.90 0.1893 0.0519

Neptune 7884-06-09 03:36 G 4600791.61 4600791.65 4600791.74 0.0088 0.0081

Neptune 7884-09-05 06:43 G 4600879.69 4600879.78 4600879.88 0.0088 0.0072

Venus 7884-10-30 09:36 G 4600934.79 4600934.90 4600935.01 0.3682 0.0183

Neptune 7884-12-02 09:07 G 4600967.78 4600967.88 4600968.01 0.0088 0.0064

Neptune 7885-02-28 11:45 G 4601055.87 4601055.99 4601056.14 0.0088 0.0056

Neptune 7885-05-27 14:38 G 4601143.97 4601144.11 4601144.26 0.0088 0.0047

Neptune 7885-08-23 17:16 G 4601232.07 4601232.22 4601232.38 0.0088 0.0039

Neptune 7885-11-19 20:09 G 4601320.18 4601320.34 4601320.50 0.0088 0.0030

Moon 7886-01-14 15:50 G 4601376.09 4601376.16 4601376.23 0.2673 0.2044

Earth 7886-01-14 15:50 G 4601376.09 4601376.16 4601376.23 0.2666 0.2109 *

Neptune 7886-02-15 22:48 G 4601408.28 4601408.45 4601408.62 0.0088 0.0022

Neptune 7886-05-15 01:40 G 4601496.39 4601496.57 4601496.74 0.0088 0.0013

Venus 7886-05-15 07:40 G 4601496.69 4601496.82 4601496.95 0.3688 0.1342 *

Neptune 7886-08-11 04:19 G 4601584.51 4601584.68 4601584.86 0.0088 0.0005

Neptune 7886-11-07 06:57 G 4601672.62 4601672.79 4601672.97 0.0088 0.0005

Neptune 7887-02-03 09:50 G 4601760.74 4601760.91 4601761.08 0.0088 0.0013

Neptune 7887-05-02 12:43 G 4601848.85 4601849.03 4601849.20 0.0088 0.0021

Neptune 7887-07-29 15:21 G 4601936.98 4601937.14 4601937.31 0.0088 0.0030

Neptune 7887-10-25 18:00 G 4602025.10 4602025.25 4602025.42 0.0088 0.0039

Neptune 7888-01-21 20:38 G 4602113.23 4602113.36 4602113.52 0.0088 0.0048

Neptune 7888-04-18 23:45 G 4602201.36 4602201.49 4602201.63 0.0088 0.0056

Neptune 7888-07-16 02:23 G 4602289.49 4602289.60 4602289.73 0.0088 0.0065

Earth 7888-07-18 15:07 G 4602292.06 4602292.13 4602292.20 0.2662 0.2298

Moon 7888-07-18 15:36 G 4602292.09 4602292.15 4602292.20 0.2669 0.2453 *

Saturn 7888-09-04 12:43 G 4602339.98 4602340.03 4602340.09 0.0276 0.0252

Neptune 7888-10-12 05:16 G 4602377.64 4602377.72 4602377.82 0.0088 0.0074

Saturn 7888-12-02 01:55 G 4602428.46 4602428.58 4602428.71 0.0276 0.0143

Neptune 7889-01-08 07:55 G 4602465.79 4602465.83 4602465.91 0.0088 0.0083

Saturn 7889-02-28 15:07 G 4602516.99 4602517.13 4602517.27 0.0277 0.0035

Jupiter 7889-04-04 11:16 G 4602551.94 4602551.97 4602552.01 0.0486 0.0475

Saturn 7889-05-28 03:50 G 4602605.53 4602605.66 4602605.80 0.0277 0.0073

Jupiter 7889-07-03 08:23 G 4602641.68 4602641.85 4602642.01 0.0486 0.0126

Saturn 7889-08-24 16:33 G 4602694.09 4602694.19 4602694.30 0.0278 0.0178

Venus 7890-05-16 02:52 G 4602958.52 4602958.62 4602958.72 0.3683 0.1447

Mars 7892-02-29 10:33 G 4603612.79 4603612.94 4603613.10 0.1634 0.0442

Mars 7893-01-10 14:23 G 4603928.99 4603929.10 4603929.22 0.1898 0.0271

Jupiter 7895-03-09 18:28 G 4604717.25 4604717.27 4604717.28 0.0542 0.0537

Jupiter 7895-06-07 06:57 G 4604806.66 4604806.79 4604806.92 0.0542 0.0144

Venus 7895-11-29 19:55 G 4604982.26 4604982.33 4604982.41 0.3683 0.2695

Earth 7899-01-17 10:19 G 4606126.82 4606126.93 4606127.04 0.2667 0.0621

Moon	7899-01-17 11:02 G	4606126.85	4606126.96	4606127.07	0.2670	0.0588 *
Uranus	7899-07-11 10:33 G	4606301.92	4606301.94	4606301.96	0.0134	0.0131
Uranus	7899-10-07 13:55 G	4606390.01	4606390.08	4606390.16	0.0134	0.0114
Uranus	7900-01-03 17:31 G	4606478.13	4606478.23	4606478.32	0.0134	0.0096
Uranus	7900-04-01 20:52 G	4606566.26	4606566.37	4606566.48	0.0134	0.0079
Uranus	7900-06-29 00:14 G	4606654.39	4606654.51	4606654.64	0.0134	0.0061
Uranus	7900-09-25 03:36 G	4606742.53	4606742.65	4606742.79	0.0134	0.0044
Uranus	7900-12-22 07:11 G	4606830.66	4606830.80	4606830.93	0.0134	0.0027
Uranus	7901-03-20 10:33 G	4606918.80	4606918.94	4606919.08	0.0134	0.0009
Jupiter	7901-04-22 08:23 G	4606951.68	4606951.85	4606952.02	0.0485	0.0027
Uranus	7901-06-16 13:55 G	4607006.94	4607007.08	4607007.22	0.0134	0.0008
Mars	7901-07-22 13:40 G	4607042.96	4607043.07	4607043.19	0.1630	0.1160
Uranus	7901-09-12 17:16 G	4607095.08	4607095.22	4607095.35	0.0134	0.0025
Uranus	7901-12-09 20:38 G	4607183.23	4607183.36	4607183.49	0.0134	0.0042
Uranus	7902-03-07 23:45 G	4607271.37	4607271.49	4607271.62	0.0134	0.0060
Mars	7902-06-03 21:50 G	4607359.31	4607359.41	4607359.51	0.1904	0.1075
Uranus	7902-06-04 03:07 G	4607359.52	4607359.63	4607359.74	0.0134	0.0076
Uranus	7902-08-31 06:14 G	4607447.67	4607447.76	4607447.87	0.0135	0.0094
Uranus	7902-11-27 09:36 G	4607535.83	4607535.90	4607535.98	0.0135	0.0110
Saturn	7902-12-25 03:36 G	4607563.54	4607563.65	4607563.77	0.0284	0.0203
Uranus	7903-02-23 12:43 G	4607624.00	4607624.03	4607624.08	0.0135	0.0128
Saturn	7903-03-23 22:19 G	4607652.27	4607652.43	4607652.59	0.0283	0.0070
Saturn	7903-06-20 17:02 G	4607741.05	4607741.21	4607741.38	0.0283	0.0066
Saturn	7903-09-17 12:14 G	4607829.90	4607830.01	4607830.13	0.0282	0.0204
Pluto	7905-11-01 01:40 G	4608605.56	4608605.57	4608605.60	0.0071	0.0070
Pluto	7906-01-28 02:23 G	4608693.55	4608693.60	4608693.68	0.0071	0.0061
Pluto	7906-04-26 03:21 G	4608781.55	4608781.64	4608781.74	0.0071	0.0052
Pluto	7906-07-23 04:04 G	4608869.57	4608869.67	4608869.79	0.0071	0.0044
Pluto	7906-10-19 04:48 G	4608957.59	4608957.70	4608957.83	0.0071	0.0035
Pluto	7907-01-15 05:45 G	4609045.61	4609045.74	4609045.87	0.0071	0.0025

Jupiter	7907-03-27 09:07 G	4609116.75	4609116.88	4609117.02	0.0543	0.0032
Pluto	7907-04-13 06:28 G	4609133.64	4609133.77	4609133.91	0.0072	0.0016
Pluto	7907-07-10 07:26 G	4609221.67	4609221.81	4609221.95	0.0072	0.0007
Pluto	7907-10-06 08:09 G	4609309.70	4609309.84	4609309.98	0.0072	0.0003
Pluto	7908-01-02 08:52 G	4609397.74	4609397.87	4609398.01	0.0072	0.0012
Pluto	7908-03-30 09:36 G	4609485.78	4609485.90	4609486.04	0.0072	0.0022
Pluto	7908-06-26 10:33 G	4609573.82	4609573.94	4609574.07	0.0072	0.0031
Moon	7908-07-14 12:00 G	4609591.96	4609592.00	4609592.04	0.2670	0.2529
Earth	7908-07-14 13:11 G	4609591.98	4609592.05	4609592.12	0.2666	0.2325 *
Pluto	7908-09-22 11:16 G	4609661.87	4609661.97	4609662.09	0.0072	0.0040
Pluto	7908-12-19 12:14 G	4609749.92	4609750.01	4609750.11	0.0072	0.0050
Pluto	7909-03-17 12:57 G	4609837.97	4609838.04	4609838.13	0.0073	0.0060
Pluto	7909-06-13 13:40 G	4609926.05	4609926.07	4609926.12	0.0073	0.0070
Mars	7911-10-25 05:02 G	4610789.71	4610789.71	4610789.72	0.1909	0.1903
Earth	7912-01-21 04:48 G	4610877.59	4610877.70	4610877.80	0.2669	0.0842
Moon	7912-01-21 05:31 G	4610877.62	4610877.73	4610877.83	0.2668	0.1003 *
Mars	7912-11-18 06:00 G	4611179.64	4611179.75	4611179.86	0.1643	0.1167
Jupiter	7913-02-08 08:52 G	4611261.72	4611261.87	4611262.03	0.0485	0.0173
Jupiter	7913-05-09 06:43 G	4611351.72	4611351.78	4611351.85	0.0485	0.0442
Mars	7913-09-29 23:02 G	4611495.38	4611495.46	4611495.54	0.1887	0.1348
Saturn	7918-04-22 03:50 G	4613160.56	4613160.66	4613160.78	0.0275	0.0175
Saturn	7918-07-19 17:02 G	4613249.07	4613249.21	4613249.35	0.0276	0.0066
Saturn	7918-10-16 06:00 G	4613337.61	4613337.75	4613337.89	0.0276	0.0041
Saturn	7919-01-12 18:43 G	4613426.16	4613426.28	4613426.40	0.0277	0.0146
Jupiter	7919-01-13 12:14 G	4613426.88	4613427.01	4613427.14	0.0543	0.0190
Saturn	7919-04-11 06:57 G	4613514.74	4613514.79	4613514.86	0.0277	0.0250
Jupiter	7919-04-13 00:00 G	4613516.44	4613516.50	4613516.56	0.0543	0.0478
Moon	7921-07-17 16:33 G	4614343.04	4614343.19	4614343.34	0.2670	0.0215
Earth	7921-07-17 17:02 G	4614343.06	4614343.21	4614343.36	0.2664	0.0208 *
Mars	7922-04-10 08:23 G	4614609.69	4614609.85	4614610.00	0.1638	0.0391

Mars	7923-02-20 06:57 G	4614925.68	4614925.79	4614925.90	0.1893	0.0597
Venus	7924-10-23 02:52 G	4615536.58	4615536.62	4615536.65	0.3681	0.3471
Jupiter	7924-11-27 09:21 G	4615571.76	4615571.89	4615572.01	0.0485	0.0322
Earth	7925-01-22 23:02 G	4615628.41	4615628.46	4615628.52	0.2671	0.2282
Moon	7925-01-22 23:31 G	4615628.42	4615628.48	4615628.53	0.2664	0.2283 *
Jupiter	7925-02-25 06:28 G	4615661.64	4615661.77	4615661.92	0.0485	0.0286
Venus	7930-05-08 20:38 G	4617560.27	4617560.36	4617560.45	0.3681	0.2083
Jupiter	7930-11-01 15:07 G	4617737.03	4617737.13	4617737.23	0.0543	0.0352
Jupiter	7931-01-30 03:21 G	4617826.53	4617826.64	4617826.74	0.0543	0.0323
Mars	7931-08-31 11:16 G	4618039.81	4618039.97	4618040.13	0.1634	0.0349
Venus	7931-11-21 04:04 G	4618121.58	4618121.67	4618121.76	0.3689	0.2741
Earth	7932-01-16 20:38 G	4618178.28	4618178.36	4618178.45	0.2666	0.1797
Moon	7932-01-16 20:52 G	4618178.29	4618178.37	4618178.46	0.2672	0.1806 *
Saturn	7932-05-13 01:40 G	4618295.50	4618295.57	4618295.64	0.0284	0.0256
Mars	7932-07-12 14:38 G	4618355.99	4618356.11	4618356.22	0.1898	0.0200
Saturn	7932-08-09 19:55 G	4618384.19	4618384.33	4618384.48	0.0283	0.0125
Saturn	7932-11-06 14:52 G	4618472.95	4618473.12	4618473.28	0.0283	0.0012
Saturn	7933-02-03 09:50 G	4618561.77	4618561.91	4618562.05	0.0282	0.0147
Venus	7935-11-22 14:09 G	4619583.98	4619584.09	4619584.20	0.3682	0.0737
Jupiter	7936-09-15 09:50 G	4619881.88	4619881.91	4619881.96	0.0485	0.0467
Jupiter	7936-12-14 06:43 G	4619971.62	4619971.78	4619971.95	0.0485	0.0135
Venus	7937-06-06 05:45 G	4620145.61	4620145.74	4620145.88	0.3688	0.0388
Uranus	7940-10-21 23:31 G	4621379.40	4621379.48	4621379.56	0.0145	0.0128
Uranus	7941-01-18 06:28 G	4621467.65	4621467.77	4621467.91	0.0145	0.0101
Mars	7941-01-20 14:09 G	4621469.98	4621470.09	4621470.21	0.1630	0.1076
Uranus	7941-04-16 13:55 G	4621555.92	4621556.08	4621556.23	0.0144	0.0073
Venus	7941-06-07 07:40 G	4621607.71	4621607.82	4621607.92	0.3682	0.0584
Uranus	7941-07-13 21:07 G	4621644.21	4621644.38	4621644.55	0.0144	0.0045
Uranus	7941-10-10 04:19 G	4621732.50	4621732.68	4621732.86	0.0144	0.0017
Mars	7941-12-02 22:04 G	4621786.32	4621786.42	4621786.52	0.1904	0.0996

Uranus 7942-01-06 11:45 G 4621820.81 4621820.99 4621821.17 0.0144 0.0011

Uranus 7942-04-04 18:57 G 4621909.12 4621909.29 4621909.47 0.0144 0.0040

Uranus 7942-07-02 02:23 G 4621997.45 4621997.60 4621997.77 0.0144 0.0068

Jupiter 7942-08-20 17:16 G 4622047.19 4622047.22 4622047.25 0.0542 0.0526

Uranus 7942-09-28 09:50 G 4622085.78 4622085.91 4622086.05 0.0144 0.0097

Jupiter 7942-11-18 05:45 G 4622136.62 4622136.74 4622136.87 0.0542 0.0156

Venus 7942-12-21 08:09 G 4622169.72 4622169.84 4622169.95 0.3688 0.2120

Uranus 7942-12-25 17:16 G 4622174.14 4622174.22 4622174.32 0.0144 0.0126

Earth 7945-01-18 15:07 G 4622929.02 4622929.13 4622929.25 0.2668 0.0331

Moon 7945-01-18 16:04 G 4622929.05 4622929.17 4622929.28 0.2670 0.0184 *

Venus 7946-12-22 00:43 G 4623631.44 4623631.53 4623631.63 0.3683 0.1848

Saturn 7947-09-09 05:16 G 4623892.63 4623892.72 4623892.81 0.0276 0.0210

Saturn 7947-12-06 18:28 G 4623981.13 4623981.27 4623981.40 0.0276 0.0101

Saturn 7948-03-04 07:26 G 4624069.67 4624069.81 4624069.95 0.0277 0.0007

Saturn 7948-05-31 20:09 G 4624158.21 4624158.34 4624158.47 0.0277 0.0113

Saturn 7948-08-28 08:38 G 4624246.78 4624246.86 4624246.95 0.0278 0.0218

Jupiter 7948-10-02 06:57 G 4624281.62 4624281.79 4624281.96 0.0485 0.0020

Mars 7951-04-25 05:02 G 4625216.68 4625216.71 4625216.74 0.1909 0.1830

Mars 7952-05-19 06:43 G 4625606.68 4625606.78 4625606.88 0.1643 0.1262

Venus 7952-07-06 17:45 G 4625655.19 4625655.24 4625655.30 0.3684 0.3081

Mars 7953-03-30 23:02 G 4625922.39 4625922.46 4625922.54 0.1886 0.1427

Moon 7954-07-15 18:14 G 4626394.16 4626394.26 4626394.36 0.2670 0.1969

Earth 7954-07-15 19:26 G 4626394.20 4626394.31 4626394.42 0.2666 0.1823 *

Jupiter 7954-09-06 08:23 G 4626446.71 4626446.85 4626446.98 0.0542 0.0017

Earth 7958-01-21 09:36 G 4627679.80 4627679.90 4627680.00 0.2669 0.1150

Moon 7958-01-21 10:19 G 4627679.83 4627679.93 4627680.03 0.2667 0.1181 *

Jupiter 7960-07-21 07:26 G 4628591.65 4628591.81 4628591.97 0.0485 0.0167

Jupiter 7960-10-19 05:02 G 4628681.65 4628681.71 4628681.78 0.0485 0.0449

Mars 7961-10-09 09:07 G 4629036.72 4629036.88 4629037.03 0.1639 0.0490

Saturn 7961-12-27 21:21 G 4629116.26 4629116.39 4629116.53 0.0284 0.0155

Saturn 7962-03-26 16:04 G 4629205.00 4629205.17 4629205.34 0.0283 0.0021

Saturn 7962-06-23 11:02 G 4629293.81 4629293.96 4629294.12 0.0283 0.0116

Mars 7962-08-21 06:57 G 4629352.68 4629352.79 4629352.90 0.1893 0.0667

Saturn 7962-09-20 06:14 G 4629382.70 4629382.76 4629382.84 0.0282 0.0254

Jupiter 7966-06-25 10:19 G 4630756.81 4630756.93 4630757.06 0.0543 0.0193

Neptune 7966-09-19 22:19 G 4630843.43 4630843.43 4630843.47 0.0089 0.0089

Jupiter 7966-09-22 22:04 G 4630846.36 4630846.42 4630846.49 0.0543 0.0475

Neptune 7966-12-17 00:14 G 4630931.46 4630931.51 4630931.58 0.0089 0.0081

Neptune 7967-03-15 01:55 G 4631019.51 4631019.58 4631019.68 0.0089 0.0073

Neptune 7967-06-11 03:50 G 4631107.57 4631107.66 4631107.77 0.0089 0.0066

Moon 7967-07-18 23:02 G 4631145.32 4631145.46 4631145.61 0.2671 0.0645

Earth 7967-07-18 23:16 G 4631145.33 4631145.47 4631145.62 0.2664 0.0718 *

Neptune 7967-09-07 05:45 G 4631195.63 4631195.74 4631195.85 0.0089 0.0058

Neptune 7967-12-04 07:11 G 4631283.69 4631283.80 4631283.93 0.0089 0.0051

Neptune 7968-03-01 09:07 G 4631371.76 4631371.88 4631372.01 0.0089 0.0043

Neptune 7968-05-28 10:48 G 4631459.83 4631459.95 4631460.09 0.0089 0.0035

Neptune 7968-08-24 12:43 G 4631547.89 4631548.03 4631548.17 0.0089 0.0028

Neptune 7968-11-20 14:23 G 4631635.96 4631636.10 4631636.24 0.0089 0.0020

Neptune 7969-02-16 16:04 G 4631724.03 4631724.17 4631724.31 0.0089 0.0013

Neptune 7969-05-15 17:45 G 4631812.10 4631812.24 4631812.39 0.0089 0.0005

Neptune 7969-08-11 19:26 G 4631900.17 4631900.31 4631900.46 0.0089 0.0003

Neptune 7969-11-07 21:07 G 4631988.24 4631988.38 4631988.52 0.0089 0.0010

Neptune 7970-02-03 22:48 G 4632076.31 4632076.45 4632076.59 0.0089 0.0017

Neptune 7970-05-03 00:28 G 4632164.38 4632164.52 4632164.66 0.0089 0.0024

Neptune 7970-07-30 02:09 G 4632252.46 4632252.59 4632252.72 0.0089 0.0031

Neptune 7970-10-26 03:50 G 4632340.53 4632340.66 4632340.79 0.0089 0.0039

Neptune 7971-01-22 05:16 G 4632428.61 4632428.72 4632428.85 0.0089 0.0046

Earth 7971-01-24 04:04 G 4632430.64 4632430.67 4632430.69 0.2671 0.2582

Mars 7971-03-01 11:45 G 4632466.83 4632466.99 4632467.14 0.1634 0.0272

Neptune 7971-04-20 06:57 G 4632516.68 4632516.79 4632516.91 0.0089 0.0053

Neptune 7971-07-17 08:23 G 4632604.76 4632604.85 4632604.97 0.0089 0.0061

Neptune 7971-10-13 10:04 G 4632692.84 4632692.92 4632693.02 0.0089 0.0068

Neptune 7972-01-09 11:45 G 4632780.92 4632780.99 4632781.07 0.0089 0.0075

Mars 7972-01-11 14:38 G 4632782.99 4632783.11 4632783.23 0.1899 0.0114

Neptune 7972-04-06 13:26 G 4632869.01 4632869.06 4632869.12 0.0089 0.0082

Jupiter 7972-05-09 08:09 G 4632901.71 4632901.84 4632901.97 0.0485 0.0310

Neptune 7972-07-03 14:52 G 4632957.12 4632957.12 4632957.14 0.0089 0.0089

Jupiter 7972-08-07 05:16 G 4632991.59 4632991.72 4632991.86 0.0485 0.0297

Saturn 7977-01-26 07:11 G 4634624.74 4634624.80 4634624.88 0.0275 0.0240

Saturn 7977-04-24 20:23 G 4634713.23 4634713.35 4634713.48 0.0275 0.0132

Saturn 7977-07-22 09:36 G 4634801.76 4634801.90 4634802.04 0.0276 0.0024

Saturn 7977-10-18 22:19 G 4634890.30 4634890.43 4634890.57 0.0276 0.0082

Saturn 7978-01-15 10:48 G 4634978.85 4634978.95 4634979.06 0.0277 0.0187

Earth 7978-01-17 01:40 G 4634980.47 4634980.57 4634980.66 0.2666 0.1481

Moon 7978-01-17 02:09 G 4634980.49 4634980.59 4634980.68 0.2671 0.1420 *

Jupiter 7978-04-13 13:11 G 4635066.95 4635067.05 4635067.15 0.0543 0.0356

Jupiter 7978-07-12 01:26 G 4635156.45 4635156.56 4635156.67 0.0543 0.0320

Mars 7980-07-21 14:38 G 4635896.99 4635897.11 4635897.24 0.1630 0.0992

Venus 7981-05-30 00:57 G 4636209.48 4636209.54 4636209.60 0.3681 0.3029

Mars 7981-06-02 22:04 G 4636213.32 4636213.42 4636213.53 0.1904 0.0914

Uranus 7983-08-01 17:45 G 4637003.20 4637003.24 4637003.30 0.0134 0.0126

Uranus 7983-10-28 21:21 G 4637091.31 4637091.39 4637091.48 0.0134 0.0108

Uranus 7984-01-25 00:43 G 4637179.44 4637179.53 4637179.64 0.0134 0.0091

Jupiter 7984-02-26 08:38 G 4637211.81 4637211.86 4637211.91 0.0485 0.0457

Uranus 7984-04-22 04:19 G 4637267.57 4637267.68 4637267.80 0.0134 0.0073

Jupiter 7984-05-26 05:31 G 4637301.56 4637301.73 4637301.89 0.0485 0.0142

Uranus 7984-07-19 07:40 G 4637355.70 4637355.82 4637355.95 0.0134 0.0056

Uranus 7984-10-15 11:16 G 4637443.83 4637443.97 4637444.10 0.0134 0.0038

Uranus 7985-01-11 14:38 G 4637531.97 4637532.11 4637532.25 0.0134 0.0021

Uranus 7985-04-09 18:00 G 4637620.11 4637620.25 4637620.39 0.0134 0.0004

Uranus	7985-07-06 21:21 G	4637708.25	4637708.39	4637708.53	0.0134	0.0014	
Uranus	7985-10-03 00:43 G	4637796.39	4637796.53	4637796.66	0.0134	0.0031	
Uranus	7985-12-30 03:50 G	4637884.54	4637884.66	4637884.80	0.0134	0.0048	
Uranus	7986-03-28 07:11 G	4637972.69	4637972.80	4637972.93	0.0134	0.0065	
Uranus	7986-06-24 10:33 G	4638060.84	4638060.94	4638061.05	0.0134	0.0082	
Uranus	7986-09-20 13:40 G	4638148.99	4638149.07	4638149.17	0.0134	0.0100	
Venus	7986-12-13 18:43 G	4638233.18	4638233.28	4638233.38	0.3681	0.1654	
Uranus	7986-12-17 17:16 G	4638237.15	4638237.22	4638237.28	0.0135	0.0116	
Uranus	7987-03-15 20:23 G	4638325.34	4638325.35	4638325.37	0.0135	0.0133	
Venus	7988-06-27 04:19 G	4638794.57	4638794.68	4638794.79	0.3689	0.2027	
Jupiter	7990-01-30 16:04 G	4639377.13	4639377.17	4639377.21	0.0543	0.0519	
Jupiter	7990-04-30 04:48 G	4639466.57	4639466.70	4639466.82	0.0543	0.0165	
Mars	7990-10-24 05:16 G	4639643.67	4639643.72	4639643.76	0.1909	0.1752	
Earth	7991-01-19 20:09 G	4639731.23	4639731.34	4639731.45	0.2668	0.0006	
Moon	7991-01-19 20:52 G	4639731.26	4639731.37	4639731.48	0.2670	0.0055	*
Saturn	7991-05-16 18:57 G	4639848.19	4639848.29	4639848.41	0.0284	0.0210	
Pluto	7991-06-24 05:31 G	4639886.72	4639886.73	4639886.79	0.0073	0.0072	
Saturn	7991-08-13 13:40 G	4639936.91	4639937.07	4639937.23	0.0283	0.0077	
Pluto	7991-09-20 08:09 G	4639974.73	4639974.84	4639974.95	0.0073	0.0058	
Saturn	7991-11-10 08:23 G	4640025.69	4640025.85	4640026.02	0.0283	0.0059	
Mars	7991-11-18 07:11 G	4640033.71	4640033.80	4640033.89	0.1644	0.1355	
Pluto	7991-12-17 10:19 G	4640062.79	4640062.93	4640063.08	0.0073	0.0045	
Saturn	7992-02-07 03:36 G	4640114.53	4640114.65	4640114.77	0.0282	0.0196	
Pluto	7992-03-14 12:28 G	4640150.85	4640151.02	4640151.19	0.0072	0.0032	
Pluto	7992-06-10 14:23 G	4640238.93	4640239.10	4640239.29	0.0072	0.0019	
Venus	7992-06-28 12:14 G	4640256.90	4640257.01	4640257.12	0.3682	0.0320	
Pluto	7992-09-06 16:33 G	4640327.01	4640327.19	4640327.38	0.0072	0.0006	
Mars	7992-09-28 23:02 G	4640349.39	4640349.46	4640349.53	0.1886	0.1498	
Pluto	7992-12-03 18:43 G	4640415.10	4640415.28	4640415.46	0.0072	0.0007	
Pluto	7993-03-01 20:38 G	4640503.19	4640503.36	4640503.54	0.0072	0.0019	

Pluto	**7993-05-28 22:33**	**G**	**4640591.28**	**4640591.44**	**4640591.62**	**0.0072**	**0.0032**	
Pluto	**7993-08-25 00:43**	**G**	**4640679.39**	**4640679.53**	**4640679.68**	**0.0072**	**0.0044**	
Pluto	**7993-11-21 02:09**	**G**	**4640767.50**	**4640767.59**	**4640767.73**	**0.0072**	**0.0057**	
Venus	**7994-01-11 06:00**	**G**	**4640818.62**	**4640818.75**	**4640818.89**	**0.3688**	**0.0375**	
Pluto	**7994-02-17 04:19**	**G**	**4640855.65**	**4640855.68**	**4640855.75**	**0.0072**	**0.0069**	
Jupiter	**7996-03-14 05:45**	**G**	**4641611.57**	**4641611.74**	**4641611.91**	**0.0485**	**0.0008**	
Venus	**7998-01-12 05:31**	**G**	**4642280.63**	**4642280.73**	**4642280.84**	**0.3683**	**0.0976**	
Venus	**7999-07-28 08:38**	**G**	**4642842.77**	**4642842.86**	**4642842.94**	**0.3687**	**0.2910**	
Moon	**8000-07-16 00:28**	**G**	**4643196.40**	**4643196.52**	**4643196.65**	**0.2670**	**0.1455**	
Earth	**8000-07-16 01:40**	**G**	**4643196.44**	**4643196.57**	**4643196.70**	**0.2665**	**0.1323**	*

9TH MILLENNIUM CE

This is a list of transits of Mercury in the 9th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	**8001-04-09 09:36**	**G**	**4643463.75**	**4643463.90**	**4643464.05**	**0.1639**	**0.0577**	
Jupiter	**8002-02-16 07:26**	**G**	**4643776.67**	**4643776.81**	**4643776.94**	**0.0543**	**0.0010**	
Mars	**8002-02-19 06:57**	**G**	**4643779.68**	**4643779.79**	**4643779.90**	**0.1893**	**0.0743**	
Venus	**8003-07-28 22:48**	**G**	**4644304.36**	**4644304.45**	**4644304.53**	**0.3683**	**0.2239**	
Earth	**8004-01-22 14:38**	**G**	**4644482.01**	**4644482.11**	**4644482.20**	**0.2669**	**0.1450**	
Moon	**8004-01-22 15:07**	**G**	**4644482.04**	**4644482.13**	**4644482.22**	**0.2665**	**0.1594**	*
Saturn	**8006-09-11 21:21**	**G**	**4645445.28**	**4645445.39**	**4645445.51**	**0.0276**	**0.0169**	
Saturn	**8006-12-09 10:33**	**G**	**4645533.80**	**4645533.94**	**4645534.08**	**0.0276**	**0.0061**	
Saturn	**8007-03-07 23:31**	**G**	**4645622.34**	**4645622.48**	**4645622.62**	**0.0277**	**0.0046**	

Saturn 8007-06-04 12:00 G 4645710.89 4645711.00 4645711.12 0.0277 0.0152

Saturn 8007-09-01 00:43 G 4645799.48 4645799.53 4645799.58 0.0278 0.0255

Jupiter 8008-01-01 06:00 G 4645921.59 4645921.75 4645921.91 0.0485 0.0158

Jupiter 8008-03-31 03:50 G 4646011.61 4646011.66 4646011.72 0.0485 0.0459

Venus 8009-02-10 15:36 G 4646328.12 4646328.15 4646328.19 0.3684 0.3460

Mars 8010-08-30 12:14 G 4646893.85 4646894.01 4646894.17 0.1634 0.0176

Mars 8011-07-12 14:38 G 4647209.99 4647210.11 4647210.23 0.1898 0.0043

Moon 8013-07-19 05:31 G 4647947.60 4647947.73 4647947.86 0.2671 0.1260

Earth 8013-07-19 05:31 G 4647947.60 4647947.73 4647947.86 0.2664 0.1232 *

Jupiter 8013-12-05 09:50 G 4648086.78 4648086.91 4648087.04 0.0543 0.0175

Jupiter 8014-03-04 21:36 G 4648176.34 4648176.40 4648176.45 0.0542 0.0491

Jupiter 8019-10-20 06:43 G 4650231.65 4650231.78 4650231.91 0.0485 0.0302

Jupiter 8020-01-18 04:04 G 4650321.54 4650321.67 4650321.80 0.0485 0.0305

Mars 8020-01-20 15:21 G 4650324.01 4650324.14 4650324.27 0.1630 0.0903

Saturn 8020-10-02 19:55 G 4650580.26 4650580.33 4650580.42 0.0284 0.0244

Mars 8020-12-01 22:04 G 4650640.31 4650640.42 4650640.53 0.1904 0.0846

Saturn 8020-12-30 14:23 G 4650668.95 4650669.10 4650669.26 0.0284 0.0112

Saturn 8021-03-29 09:21 G 4650757.72 4650757.89 4650758.06 0.0283 0.0024

Saturn 8021-06-26 04:19 G 4650846.55 4650846.68 4650846.82 0.0283 0.0161

Earth 8024-01-18 06:28 G 4651782.67 4651782.77 4651782.88 0.2666 0.1174

Moon 8024-01-18 07:11 G 4651782.69 4651782.80 4651782.90 0.2671 0.1083 *

Uranus 8024-11-11 06:28 G 4652080.69 4652080.77 4652080.88 0.0145 0.0122

Uranus 8025-02-07 13:55 G 4652168.95 4652169.08 4652169.22 0.0144 0.0094

Uranus 8025-05-06 20:52 G 4652257.22 4652257.37 4652257.54 0.0144 0.0067

Uranus 8025-08-03 04:19 G 4652345.51 4652345.68 4652345.86 0.0144 0.0038

Jupiter 8025-09-23 11:31 G 4652396.88 4652396.98 4652397.08 0.0543 0.0357

Uranus 8025-10-30 11:45 G 4652433.81 4652433.99 4652434.17 0.0144 0.0010

Jupiter 8025-12-21 23:45 G 4652486.39 4652486.49 4652486.60 0.0543 0.0320

Uranus 8026-01-26 18:57 G 4652522.11 4652522.29 4652522.47 0.0144 0.0018

Uranus 8026-04-25 02:23 G 4652610.43 4652610.60 4652610.77 0.0144 0.0047

Uranus 8026-07-22 09:36 G 4652698.75 4652698.90 4652699.06 0.0144 0.0075

Uranus 8026-10-18 17:02 G 4652787.10 4652787.21 4652787.35 0.0144 0.0104

Uranus 8027-01-15 00:43 G 4652875.46 4652875.53 4652875.60 0.0144 0.0132

Mars 8029-06-11 18:43 G 4653754.26 4653754.28 4653754.30 0.1626 0.1608

Mars 8030-04-24 05:31 G 4654070.67 4654070.73 4654070.78 0.1909 0.1664

Mars 8031-05-19 07:40 G 4654460.75 4654460.82 4654460.90 0.1643 0.1449

Jupiter 8031-08-08 07:40 G 4654541.76 4654541.82 4654541.89 0.0485 0.0443

Jupiter 8031-11-06 04:19 G 4654631.53 4654631.68 4654631.85 0.0485 0.0157

Mars 8032-03-29 23:02 G 4654776.40 4654776.46 4654776.53 0.1887 0.1574

Saturn 8036-01-29 23:31 G 4656177.39 4656177.48 4656177.59 0.0275 0.0198

Saturn 8036-04-27 12:43 G 4656265.90 4656266.03 4656266.17 0.0275 0.0091

Saturn 8036-07-25 01:40 G 4656354.43 4656354.57 4656354.71 0.0276 0.0016

Saturn 8036-10-21 14:23 G 4656442.97 4656443.10 4656443.23 0.0276 0.0121

Saturn 8037-01-18 02:52 G 4656531.54 4656531.62 4656531.70 0.0277 0.0225

Earth 8037-01-20 01:11 G 4656533.43 4656533.55 4656533.66 0.2668 0.0321

Moon 8037-01-20 01:55 G 4656533.46 4656533.58 4656533.69 0.2669 0.0453 *

Jupiter 8037-07-12 14:09 G 4656707.06 4656707.09 4656707.13 0.0543 0.0523

Jupiter 8037-10-10 02:52 G 4656796.50 4656796.62 4656796.75 0.0543 0.0163

Venus 8038-01-03 23:02 G 4656882.38 4656882.46 4656882.54 0.3681 0.2591

Venus 8039-07-19 03:07 G 4657443.60 4657443.63 4657443.65 0.3690 0.3602

Mars 8040-10-08 10:04 G 4657890.77 4657890.92 4657891.07 0.1639 0.0664

Mars 8041-08-20 07:11 G 4658206.69 4658206.80 4658206.90 0.1892 0.0826

Venus 8043-07-20 16:48 G 4658906.09 4658906.20 4658906.30 0.3682 0.1234

Jupiter 8043-08-25 04:33 G 4658941.52 4658941.69 4658941.86 0.0485 0.0003

Venus 8045-02-01 04:33 G 4659467.56 4659467.69 4659467.81 0.3689 0.1312

Moon 8046-07-17 06:57 G 4659998.66 4659998.79 4659998.93 0.2671 0.0972

Earth 8046-07-17 07:55 G 4659998.69 4659998.83 4659998.97 0.2665 0.0821 *

Neptune 8048-12-09 00:00 G 4660874.48 4660874.50 4660874.54 0.0088 0.0086

Venus 8049-02-02 10:04 G 4660929.81 4660929.92 4660930.03 0.3682 0.0145

Neptune 8049-03-07 02:23 G 4660962.54 4660962.60 4660962.70 0.0088 0.0078

Neptune 8049-06-03 05:02 G 4661050.62 4661050.71 4661050.83 0.0088 0.0070

Jupiter 8049-07-29 06:14 G 4661106.62 4661106.76 4661106.89 0.0543 0.0008

Neptune 8049-08-30 07:55 G 4661138.71 4661138.83 4661138.96 0.0088 0.0061

Neptune 8049-11-26 10:33 G 4661226.81 4661226.94 4661227.08 0.0088 0.0053

Earth 8050-01-22 19:26 G 4661284.23 4661284.31 4661284.40 0.2669 0.1755

Moon 8050-01-22 20:09 G 4661284.25 4661284.34 4661284.42 0.2665 0.1780 *

Neptune 8050-02-22 12:57 G 4661314.91 4661315.04 4661315.21 0.0088 0.0045

Mars 8050-02-28 12:43 G 4661320.87 4661321.03 4661321.19 0.1634 0.0096

Saturn 8050-05-19 12:14 G 4661400.88 4661401.01 4661401.15 0.0284 0.0166

Neptune 8050-05-21 15:50 G 4661403.01 4661403.16 4661403.33 0.0088 0.0036

Saturn 8050-08-16 06:57 G 4661489.62 4661489.79 4661489.95 0.0283 0.0032

Neptune 8050-08-17 18:28 G 4661491.12 4661491.27 4661491.45 0.0088 0.0028

Venus 8050-08-18 06:28 G 4661491.64 4661491.77 4661491.90 0.3688 0.1121

Saturn 8050-11-13 01:55 G 4661578.42 4661578.58 4661578.73 0.0283 0.0104

Neptune 8050-11-13 21:21 G 4661579.22 4661579.39 4661579.56 0.0088 0.0019

Mars 8051-01-10 14:38 G 4661636.99 4661637.11 4661637.23 0.1898 0.0044

Saturn 8051-02-09 21:07 G 4661667.30 4661667.38 4661667.47 0.0282 0.0242

Neptune 8051-02-10 00:00 G 4661667.33 4661667.50 4661667.68 0.0088 0.0011 *

Neptune 8051-05-09 02:52 G 4661755.44 4661755.62 4661755.79 0.0088 0.0002

Neptune 8051-08-05 05:31 G 4661843.56 4661843.73 4661843.91 0.0088 0.0007

Neptune 8051-11-01 08:23 G 4661931.67 4661931.85 4661932.02 0.0088 0.0015

Neptune 8052-01-28 11:02 G 4662019.79 4662019.96 4662020.13 0.0088 0.0024

Neptune 8052-04-25 13:40 G 4662107.91 4662108.07 4662108.24 0.0088 0.0033

Neptune 8052-07-22 16:33 G 4662196.04 4662196.19 4662196.35 0.0088 0.0041

Neptune 8052-10-18 19:11 G 4662284.17 4662284.30 4662284.46 0.0088 0.0050

Neptune 8053-01-14 22:04 G 4662372.30 4662372.42 4662372.56 0.0088 0.0059

Neptune 8053-04-13 00:43 G 4662460.43 4662460.53 4662460.66 0.0088 0.0068

Neptune 8053-07-10 04:04 G 4662548.58 4662548.67 4662548.75 0.0088 0.0076

Neptune 8053-10-06 06:43 G 4662636.74 4662636.78 4662636.82 0.0088 0.0085

Venus 8054-08-19 03:21 G 4662953.54 4662953.64 4662953.75 0.3683 0.1387

Jupiter 8055-06-13 05:02 G 4663251.55 4663251.71 4663251.87 0.0485 0.0145

Jupiter 8055-09-11 02:52 G 4663341.58 4663341.62 4663341.66 0.0485 0.0470

Moon 8057-01-15 17:02 G 4663834.15 4663834.21 4663834.26 0.2671 0.2317

Earth 8057-01-15 17:02 G 4663834.15 4663834.21 4663834.26 0.2665 0.2354 *

Moon 8059-07-20 11:45 G 4664749.88 4664749.99 4664750.10 0.2671 0.1743

Earth 8059-07-20 11:45 G 4664749.88 4664749.99 4664750.11 0.2663 0.1756 *

Mars 8059-07-21 15:50 G 4664751.02 4664751.16 4664751.30 0.1630 0.0813

Venus 8060-03-03 20:38 G 4664977.28 4664977.36 4664977.43 0.3683 0.2626

Mars 8060-06-01 22:19 G 4665067.32 4665067.43 4665067.54 0.1904 0.0760

Jupiter 8061-05-17 08:52 G 4665416.74 4665416.87 4665417.00 0.0543 0.0161

Jupiter 8061-08-14 20:38 G 4665506.31 4665506.36 4665506.41 0.0543 0.0504

Saturn 8065-06-18 00:14 G 4666909.44 4666909.51 4666909.58 0.0275 0.0238

Saturn 8065-09-14 13:26 G 4666997.94 4666998.06 4666998.19 0.0276 0.0130

Saturn 8065-12-12 02:23 G 4667086.46 4667086.60 4667086.75 0.0276 0.0025

Saturn 8066-03-10 15:21 G 4667175.00 4667175.14 4667175.28 0.0277 0.0083

Saturn 8066-06-07 03:50 G 4667263.56 4667263.66 4667263.77 0.0277 0.0188

Jupiter 8067-04-01 05:31 G 4667561.60 4667561.73 4667561.86 0.0485 0.0293

Jupiter 8067-06-30 02:38 G 4667651.49 4667651.61 4667651.75 0.0485 0.0317

Uranus 8067-08-22 01:11 G 4667704.50 4667704.55 4667704.61 0.0134 0.0121

Uranus 8067-11-18 04:48 G 4667792.61 4667792.70 4667792.79 0.0134 0.0103

Uranus 8068-02-14 08:09 G 4667880.74 4667880.84 4667880.95 0.0134 0.0086

Uranus 8068-05-12 11:45 G 4667968.87 4667968.99 4667969.11 0.0134 0.0068

Uranus 8068-08-08 15:07 G 4668057.00 4668057.13 4668057.26 0.0134 0.0051

Uranus 8068-11-04 18:28 G 4668145.14 4668145.27 4668145.41 0.0134 0.0033

Mars 8068-12-10 19:11 G 4668181.25 4668181.30 4668181.35 0.1626 0.1519

Uranus 8069-01-31 21:50 G 4668233.27 4668233.41 4668233.55 0.0134 0.0016

Uranus 8069-04-30 01:11 G 4668321.41 4668321.55 4668321.69 0.0134 0.0003

Uranus 8069-07-27 04:33 G 4668409.56 4668409.69 4668409.83 0.0134 0.0019

Mars 8069-10-23 05:16 G 4668497.66 4668497.72 4668497.79 0.1909 0.1597

Uranus 8069-10-23 07:55 G 4668497.70 4668497.83 4668497.97 0.0134 0.0036 *

Earth 8070-01-18 11:31 G 4668584.87 4668584.98 4668585.09 0.2666 0.0857

Moon 8070-01-18 12:14 G 4668584.90 4668585.01 4668585.11 0.2671 0.0806 *

Uranus 8070-01-19 11:16 G 4668585.85 4668585.97 4668586.10 0.0134 0.0053

Uranus 8070-04-17 14:23 G 4668673.99 4668674.10 4668674.23 0.0134 0.0071

Uranus 8070-07-14 17:45 G 4668762.15 4668762.24 4668762.35 0.0134 0.0087

Uranus 8070-10-10 21:21 G 4668850.30 4668850.39 4668850.47 0.0134 0.0104

Mars 8070-11-17 08:23 G 4668887.80 4668887.85 4668887.90 0.1644 0.1542

Uranus 8071-01-07 00:28 G 4668938.47 4668938.52 4668938.58 0.0135 0.0121

Mars 8071-09-28 23:16 G 4669203.41 4669203.47 4669203.52 0.1886 0.1647

Jupiter 8073-03-05 11:16 G 4669726.86 4669726.97 4669727.07 0.0543 0.0335

Jupiter 8073-06-02 23:16 G 4669816.37 4669816.47 4669816.58 0.0543 0.0339

Jupiter 8079-01-18 06:14 G 4671871.69 4671871.76 4671871.84 0.0485 0.0434

Jupiter 8079-04-18 03:07 G 4671961.47 4671961.63 4671961.79 0.0485 0.0166

Saturn 8079-10-06 12:43 G 4672132.92 4672133.03 4672133.15 0.0284 0.0203

Saturn 8080-01-03 07:11 G 4672221.64 4672221.80 4672221.96 0.0283 0.0070

Saturn 8080-04-01 02:09 G 4672310.42 4672310.59 4672310.75 0.0283 0.0065

Mars 8080-04-08 10:33 G 4672317.80 4672317.94 4672318.09 0.1639 0.0760

Saturn 8080-06-28 21:21 G 4672399.27 4672399.39 4672399.51 0.0283 0.0203

Mars 8081-02-18 06:57 G 4672633.69 4672633.79 4672633.89 0.1892 0.0888

Earth 8083-01-21 06:00 G 4673335.64 4673335.75 4673335.86 0.2668 0.0615

Moon 8083-01-21 06:43 G 4673335.67 4673335.78 4673335.89 0.2667 0.0712 *

Jupiter 8084-12-22 12:28 G 4674036.99 4674037.02 4674037.06 0.0543 0.0522

Jupiter 8085-03-22 01:26 G 4674126.43 4674126.56 4674126.69 0.0543 0.0163

Venus 8089-01-25 03:07 G 4675531.61 4675531.63 4675531.66 0.3681 0.3546

Mars 8089-08-29 13:26 G 4675747.89 4675748.06 4675748.22 0.1634 0.0045

Mars 8090-07-11 14:52 G 4676064.00 4676064.12 4676064.24 0.1898 0.0122

Jupiter 8091-02-04 03:36 G 4676271.49 4676271.65 4676271.82 0.0485 0.0024

Moon 8092-07-17 13:11 G 4676800.91 4676801.05 4676801.20 0.2672 0.0338

Earth 8092-07-17 13:55 G 4676800.93 4676801.08 4676801.23 0.2665 0.0323 *

Venus 8094-08-10 21:07 G 4677555.29 4677555.38 4677555.47 0.3681 0.2154

Saturn	8094-11-05 02:23 G	4677641.58	4677641.60	4677641.65	0.0275	0.0266	
Saturn	8095-02-01 15:50 G	4677730.05	4677730.16	4677730.28	0.0275	0.0157	
Saturn	8095-05-01 05:02 G	4677818.57	4677818.71	4677818.85	0.0275	0.0050	
Saturn	8095-07-28 17:45 G	4677907.10	4677907.24	4677907.38	0.0276	0.0056	
Saturn	8095-10-25 06:28 G	4677995.66	4677995.77	4677995.89	0.0276	0.0160	
Saturn	8096-01-21 18:57 G	4678084.25	4678084.29	4678084.33	0.0277	0.0263	
Earth	8096-01-24 00:28 G	4678086.45	4678086.52	4678086.59	0.2670	0.2060	
Moon	8096-01-24 00:57 G	4678086.48	4678086.54	4678086.60	0.2665	0.2178	*
Venus	8096-02-23 03:07 G	4678116.55	4678116.63	4678116.71	0.3689	0.2910	
Jupiter	8097-01-08 04:19 G	4678436.55	4678436.68	4678436.82	0.0543	0.0011	
Mars	8099-01-19 16:19 G	4679178.04	4679178.18	4679178.32	0.1630	0.0730	
Mars	8099-12-01 22:19 G	4679494.32	4679494.43	4679494.54	0.1904	0.0684	
Venus	8100-02-24 14:38 G	4679579.01	4679579.11	4679579.22	0.3682	0.0811	
Venus	8101-09-09 04:33 G	4680140.56	4680140.69	4680140.83	0.3688	0.0598	
Jupiter	8102-11-24 03:50 G	4680581.50	4680581.66	4680581.83	0.0485	0.0133	
Earth	8103-01-17 21:50 G	4680636.34	4680636.41	4680636.48	0.2665	0.2035	
Moon	8103-01-17 22:04 G	4680636.35	4680636.42	4680636.49	0.2671	0.2070	*
Jupiter	8103-02-22 01:26 G	4680671.55	4680671.56	4680671.59	0.0485	0.0482	
Earth	8105-07-21 18:00 G	4681552.18	4681552.25	4681552.33	0.2663	0.2273	
Moon	8105-07-21 18:14 G	4681552.19	4681552.26	4681552.34	0.2670	0.2291	*
Venus	8105-09-10 08:09 G	4681602.73	4681602.84	4681602.95	0.3683	0.0504	
Venus	8107-03-26 06:43 G	4682164.66	4682164.78	4682164.90	0.3688	0.1885	
Mars	8108-06-11 19:40 G	4682608.25	4682608.32	4682608.40	0.1626	0.1433	
Uranus	8108-09-05 06:57 G	4682693.76	4682693.79	4682693.83	0.0145	0.0142	
Jupiter	8108-10-28 07:26 G	4682746.68	4682746.81	4682746.94	0.0543	0.0156	
Uranus	8108-12-02 13:55 G	4682781.98	4682782.08	4682782.20	0.0145	0.0115	
Jupiter	8109-01-25 19:26 G	4682836.27	4682836.31	4682836.35	0.0543	0.0512	
Saturn	8109-02-23 10:48 G	4682864.88	4682864.95	4682865.02	0.0284	0.0255	
Uranus	8109-02-28 21:21 G	4682870.24	4682870.39	4682870.53	0.0144	0.0087	
Mars	8109-04-24 05:31 G	4682924.66	4682924.73	4682924.80	0.1909	0.1513	

Saturn 8109-05-23 05:02 G 4682953.57 4682953.71 4682953.86 0.0284 0.0124

Uranus 8109-05-28 04:19 G 4682958.52 4682958.68 4682958.85 0.0144 0.0059

Saturn 8109-08-19 23:45 G 4683042.33 4683042.49 4683042.66 0.0283 0.0012

Uranus 8109-08-24 11:31 G 4683046.81 4683046.98 4683047.16 0.0144 0.0032

Saturn 8109-11-16 18:43 G 4683131.14 4683131.28 4683131.43 0.0283 0.0148

Uranus 8109-11-20 18:57 G 4683135.11 4683135.29 4683135.47 0.0144 0.0003

Uranus 8110-02-17 02:09 G 4683223.42 4683223.59 4683223.77 0.0144 0.0025

Uranus 8110-05-16 09:36 G 4683311.73 4683311.90 4683312.07 0.0144 0.0053

Mars 8110-05-19 08:52 G 4683314.86 4683314.87 4683314.89 0.1644 0.1636

Uranus 8110-08-12 16:48 G 4683400.06 4683400.20 4683400.36 0.0144 0.0082

Uranus 8110-11-09 00:14 G 4683488.41 4683488.51 4683488.64 0.0144 0.0111

Uranus 8111-02-05 07:55 G 4683576.79 4683576.83 4683576.88 0.0144 0.0139

Venus 8111-03-27 01:26 G 4683626.46 4683626.56 4683626.65 0.3683 0.1776

Mars 8111-03-30 23:16 G 4683630.42 4683630.47 4683630.51 0.1886 0.1721

Jupiter 8114-09-12 04:33 G 4684891.55 4684891.69 4684891.83 0.0485 0.0279

Jupiter 8114-12-11 01:40 G 4684981.45 4684981.57 4684981.70 0.0485 0.0329

Earth 8116-01-20 16:33 G 4685387.08 4685387.19 4685387.30 0.2667 0.0551

Moon 8116-01-20 17:02 G 4685387.10 4685387.21 4685387.32 0.2671 0.0427 *

Venus 8116-10-09 18:28 G 4685650.21 4685650.27 4685650.33 0.3684 0.3003

Mars 8119-10-09 11:16 G 4686744.83 4686744.97 4686745.11 0.1639 0.0854

Jupiter 8120-08-16 10:04 G 4687056.81 4687056.92 4687057.03 0.0543 0.0323

Mars 8120-08-20 07:11 G 4687060.70 4687060.80 4687060.90 0.1892 0.0971

Jupiter 8120-11-13 22:19 G 4687146.33 4687146.43 4687146.53 0.0543 0.0352

Saturn 8124-06-21 16:19 G 4688462.08 4688462.18 4688462.28 0.0275 0.0199

Saturn 8124-09-18 05:31 G 4688550.59 4688550.73 4688550.87 0.0276 0.0091

Saturn 8124-12-15 18:28 G 4688639.13 4688639.27 4688639.41 0.0276 0.0016

Saturn 8125-03-14 07:11 G 4688727.67 4688727.80 4688727.93 0.0277 0.0121

Saturn 8125-06-10 19:40 G 4688816.24 4688816.32 4688816.40 0.0277 0.0224

Moon 8125-07-16 15:07 G 4688852.07 4688852.13 4688852.19 0.2670 0.2400

Earth 8125-07-16 16:19 G 4688852.12 4688852.18 4688852.25 0.2667 0.2333 *

Jupiter 8126-07-01 05:02 G 4689201.64 4689201.71 4689201.79 0.0485 0.0425

Jupiter 8126-09-29 01:55 G 4689291.42 4689291.58 4689291.74 0.0485 0.0176

Earth 8129-01-22 11:02 G 4690137.85 4690137.96 4690138.06 0.2668 0.0923

Moon 8129-01-22 11:45 G 4690137.88 4690137.99 4690138.09 0.2666 0.1007 *

Mars 8129-02-28 13:55 G 4690174.92 4690175.08 4690175.24 0.1634 0.0095

Mars 8130-01-10 14:52 G 4690491.00 4690491.12 4690491.24 0.1898 0.0193

Neptune 8131-06-17 22:04 G 4691014.38 4691014.42 4691014.46 0.0089 0.0086

Neptune 8131-09-13 23:31 G 4691102.43 4691102.48 4691102.56 0.0089 0.0079

Neptune 8131-12-11 01:26 G 4691190.48 4691190.56 4691190.66 0.0089 0.0071

Neptune 8132-03-08 03:07 G 4691278.54 4691278.63 4691278.74 0.0089 0.0063

Neptune 8132-06-04 05:02 G 4691366.60 4691366.71 4691366.83 0.0089 0.0055

Jupiter 8132-06-04 12:28 G 4691366.96 4691367.02 4691367.07 0.0543 0.0497

Neptune 8132-08-31 06:57 G 4691454.67 4691454.79 4691454.91 0.0089 0.0048

Jupiter 8132-09-02 00:57 G 4691456.42 4691456.54 4691456.67 0.0543 0.0186

Neptune 8132-11-27 08:23 G 4691542.73 4691542.85 4691542.99 0.0089 0.0041

Neptune 8133-02-23 10:19 G 4691630.80 4691630.93 4691631.07 0.0089 0.0033

Neptune 8133-05-22 12:00 G 4691718.86 4691719.00 4691719.14 0.0089 0.0025

Neptune 8133-08-18 13:40 G 4691806.93 4691807.07 4691807.22 0.0089 0.0018

Neptune 8133-11-14 15:36 G 4691895.00 4691895.15 4691895.29 0.0089 0.0010

Neptune 8134-02-10 17:16 G 4691983.07 4691983.22 4691983.36 0.0089 0.0003

Neptune 8134-05-09 18:57 G 4692071.14 4692071.29 4692071.43 0.0089 0.0005

Neptune 8134-08-05 20:23 G 4692159.22 4692159.35 4692159.50 0.0089 0.0013

Neptune 8134-11-01 22:04 G 4692247.29 4692247.42 4692247.57 0.0089 0.0020

Neptune 8135-01-29 00:00 G 4692335.36 4692335.50 4692335.63 0.0089 0.0027

Neptune 8135-04-27 01:26 G 4692423.44 4692423.56 4692423.70 0.0089 0.0034

Neptune 8135-07-24 03:07 G 4692511.51 4692511.63 4692511.76 0.0089 0.0041

Neptune 8135-10-20 04:48 G 4692599.58 4692599.70 4692599.82 0.0089 0.0049

Neptune 8136-01-16 06:28 G 4692687.66 4692687.77 4692687.88 0.0089 0.0056

Neptune 8136-04-13 08:09 G 4692775.74 4692775.84 4692775.94 0.0089 0.0063

Neptune 8136-07-10 09:21 G 4692863.82 4692863.89 4692863.99 0.0089 0.0071

Neptune 8136-10-06 11:02 G 4692951.91 4692951.96 4692952.04 0.0089 0.0078

Neptune 8137-01-02 12:43 G 4693040.00 4693040.03 4693040.08 0.0089 0.0085

Jupiter 8138-07-18 02:23 G 4693601.43 4693601.60 4693601.77 0.0485 0.0030

Moon 8138-07-19 19:40 G 4693603.17 4693603.32 4693603.46 0.2672 0.0045

Earth 8138-07-19 20:09 G 4693603.19 4693603.34 4693603.49 0.2665 0.0188 *

Mars 8138-07-21 16:48 G 4693605.06 4693605.20 4693605.35 0.1630 0.0641

Saturn 8138-10-10 05:16 G 4693685.59 4693685.72 4693685.86 0.0284 0.0163

Saturn 8139-01-07 00:00 G 4693774.33 4693774.50 4693774.66 0.0283 0.0030

Saturn 8139-04-05 18:57 G 4693863.13 4693863.29 4693863.44 0.0283 0.0107

Mars 8139-06-02 22:19 G 4693921.32 4693921.43 4693921.54 0.1904 0.0610

Saturn 8139-07-03 14:09 G 4693952.01 4693952.09 4693952.18 0.0283 0.0245

Earth 8142-01-25 05:16 G 4694888.67 4694888.72 4694888.77 0.2670 0.2359

Moon 8142-01-25 05:45 G 4694888.69 4694888.74 4694888.79 0.2665 0.2388 *

Jupiter 8144-06-21 02:52 G 4695766.48 4695766.62 4695766.76 0.0543 0.0005

Venus 8145-09-02 01:26 G 4696204.50 4696204.56 4696204.61 0.3681 0.3104

Mars 8147-12-11 20:09 G 4697035.25 4697035.34 4697035.42 0.1626 0.1357

Mars 8148-10-23 05:31 G 4697351.66 4697351.73 4697351.81 0.1909 0.1434

Earth 8149-01-18 02:52 G 4697438.53 4697438.62 4697438.71 0.2665 0.1718

Moon 8149-01-18 03:07 G 4697438.54 4697438.63 4697438.72 0.2672 0.1612 *

Jupiter 8150-05-06 03:07 G 4697911.47 4697911.63 4697911.80 0.0485 0.0116

Mars 8150-09-28 23:16 G 4698057.43 4698057.47 4698057.50 0.1886 0.1792

Venus 8151-03-18 19:11 G 4698228.20 4698228.30 4698228.39 0.3682 0.1728

Uranus 8151-06-16 05:02 G 4698317.71 4698317.71 4698317.72 0.0134 0.0133

Uranus 8151-09-12 08:23 G 4698405.79 4698405.85 4698405.93 0.0134 0.0116

Uranus 8151-12-09 12:00 G 4698493.91 4698494.00 4698494.10 0.0134 0.0098

Uranus 8152-03-06 15:21 G 4698582.04 4698582.14 4698582.26 0.0134 0.0081

Uranus 8152-06-02 18:57 G 4698670.17 4698670.29 4698670.42 0.0134 0.0063

Uranus 8152-08-29 22:19 G 4698758.30 4698758.43 4698758.57 0.0134 0.0046

Venus 8152-09-30 03:07 G 4698789.53 4698789.63 4698789.74 0.3689 0.2217

Uranus 8152-11-26 01:55 G 4698846.44 4698846.58 4698846.71 0.0134 0.0028

Uranus 8153-02-22 05:16 G 4698934.58 4698934.72 4698934.86 0.0134 0.0011

Uranus 8153-05-21 08:38 G 4699022.72 4699022.86 4699023.00 0.0134 0.0006

Uranus 8153-08-17 12:00 G 4699110.86 4699111.00 4699111.14 0.0134 0.0024

Saturn 8153-11-08 18:43 G 4699194.21 4699194.28 4699194.37 0.0275 0.0225

Uranus 8153-11-13 15:07 G 4699199.01 4699199.13 4699199.27 0.0134 0.0042

Pluto 8153-11-28 10:48 G 4699213.91 4699213.95 4699214.01 0.0071 0.0066

Saturn 8154-02-05 08:09 G 4699282.71 4699282.84 4699282.97 0.0275 0.0117

Uranus 8154-02-09 18:28 G 4699287.15 4699287.27 4699287.40 0.0134 0.0058

Pluto 8154-02-24 11:31 G 4699301.91 4699301.98 4699302.07 0.0071 0.0057

Saturn 8154-05-04 21:07 G 4699371.24 4699371.38 4699371.52 0.0275 0.0010

Uranus 8154-05-08 21:50 G 4699375.30 4699375.41 4699375.53 0.0134 0.0075

Pluto 8154-05-23 12:14 G 4699389.92 4699390.01 4699390.12 0.0071 0.0048

Saturn 8154-08-01 09:50 G 4699459.78 4699459.91 4699460.05 0.0276 0.0095

Uranus 8154-08-05 01:11 G 4699463.46 4699463.55 4699463.65 0.0134 0.0092

Pluto 8154-08-19 12:57 G 4699477.94 4699478.04 4699478.17 0.0071 0.0040

Saturn 8154-10-28 22:33 G 4699548.34 4699548.44 4699548.53 0.0276 0.0199

Uranus 8154-11-01 04:33 G 4699551.61 4699551.69 4699551.77 0.0134 0.0109

Pluto 8154-11-15 13:55 G 4699565.96 4699566.08 4699566.21 0.0071 0.0030

Uranus 8155-01-28 07:55 G 4699639.78 4699639.83 4699639.87 0.0135 0.0126

Pluto 8155-02-11 14:38 G 4699653.99 4699654.11 4699654.25 0.0071 0.0022

Pluto 8155-05-10 15:36 G 4699742.02 4699742.15 4699742.29 0.0072 0.0012

Pluto 8155-08-06 16:19 G 4699830.05 4699830.18 4699830.32 0.0072 0.0004

Pluto 8155-11-02 17:16 G 4699918.08 4699918.22 4699918.35 0.0072 0.0007

Pluto 8156-01-29 18:00 G 4700006.12 4700006.25 4700006.39 0.0072 0.0016

Jupiter 8156-04-09 05:45 G 4700076.61 4700076.74 4700076.87 0.0543 0.0160

Pluto 8156-04-26 18:57 G 4700094.16 4700094.29 4700094.41 0.0072 0.0026

Jupiter 8156-07-07 17:31 G 4700166.19 4700166.23 4700166.28 0.0543 0.0509

Pluto 8156-07-23 19:26 G 4700182.20 4700182.31 4700182.44 0.0072 0.0035

Venus 8156-10-01 12:43 G 4700251.92 4700252.03 4700252.14 0.3682 0.0407

Pluto 8156-10-19 20:23 G 4700270.25 4700270.35 4700270.46 0.0072 0.0045

Pluto	8157-01-15 21:07 G	4700358.30	4700358.38	4700358.48	0.0072	0.0055
Pluto	8157-04-13 21:50 G	4700446.36	4700446.41	4700446.49	0.0073	0.0065
Venus	8158-04-16 04:48 G	4700813.56	4700813.70	4700813.84	0.3688	0.0133
Mars	8159-04-09 11:45 G	4701171.86	4701171.99	4701172.12	0.1639	0.0938
Mars	8160-02-19 07:11 G	4701487.70	4701487.80	4701487.90	0.1892	0.1049
Earth	8162-01-20 21:21 G	4702189.28	4702189.39	4702189.51	0.2667	0.0243
Moon	8162-01-20 22:04 G	4702189.31	4702189.42	4702189.53	0.2670	0.0193 *
Jupiter	8162-02-22 03:21 G	4702221.51	4702221.64	4702221.78	0.0485	0.0267
Venus	8162-04-17 06:00 G	4702275.65	4702275.75	4702275.86	0.3683	0.0908
Jupiter	8162-05-23 00:43 G	4702311.41	4702311.53	4702311.65	0.0485	0.0341
Venus	8163-10-31 07:11 G	4702837.71	4702837.80	4702837.90	0.3688	0.2655
Venus	8167-10-31 23:16 G	4704299.38	4704299.47	4704299.55	0.3683	0.2160
Jupiter	8168-01-27 08:38 G	4704386.75	4704386.86	4704386.97	0.0543	0.0320
Saturn	8168-02-27 03:36 G	4704417.55	4704417.65	4704417.76	0.0284	0.0213
Jupiter	8168-04-25 21:07 G	4704476.28	4704476.38	4704476.48	0.0543	0.0357
Saturn	8168-05-25 22:04 G	4704506.26	4704506.42	4704506.58	0.0284	0.0081
Saturn	8168-08-22 16:48 G	4704595.04	4704595.20	4704595.37	0.0283	0.0054
Mars	8168-08-29 14:38 G	4704601.95	4704602.11	4704602.26	0.1635	0.0193
Saturn	8168-11-19 12:00 G	4704683.88	4704684.00	4704684.12	0.0283	0.0191
Mars	8169-07-11 14:52 G	4704918.00	4704918.12	4704918.24	0.1898	0.0269
Moon	8171-07-17 21:36 G	4705654.31	4705654.40	4705654.49	0.2671	0.2059
Earth	8171-07-17 22:33 G	4705654.33	4705654.44	4705654.54	0.2666	0.1838 *
Venus	8173-05-16 16:19 G	4706323.14	4706323.18	4706323.22	0.3684	0.3382
Jupiter	8173-12-11 04:19 G	4706531.59	4706531.68	4706531.76	0.0485	0.0410
Jupiter	8174-03-11 00:57 G	4706621.38	4706621.54	4706621.70	0.0485	0.0190
Earth	8175-01-23 15:50 G	4706940.06	4706940.16	4706940.26	0.2668	0.1225
Moon	8175-01-23 16:33 G	4706940.10	4706940.19	4706940.29	0.2666	0.1359 *
Mars	8178-01-19 17:31 G	4708032.08	4708032.23	4708032.38	0.1630	0.0556
Mars	8178-12-01 22:19 G	4708348.32	4708348.43	4708348.55	0.1904	0.0534
Jupiter	8179-11-15 11:16 G	4708696.91	4708696.97	4708697.03	0.0543	0.0486

Jupiter 8180-02-13 00:00 G 4708786.38 4708786.50 4708786.63 0.0543 0.0197

Saturn 8183-03-28 19:11 G 4709926.27 4709926.30 4709926.34 0.0275 0.0267

Saturn 8183-06-25 08:38 G 4710014.74 4710014.86 4710014.98 0.0275 0.0158

Saturn 8183-09-21 21:36 G 4710103.26 4710103.40 4710103.54 0.0276 0.0051

Saturn 8183-12-19 10:33 G 4710191.80 4710191.94 4710192.08 0.0276 0.0055

Saturn 8184-03-16 23:02 G 4710280.35 4710280.46 4710280.58 0.0277 0.0160

Saturn 8184-06-13 11:45 G 4710368.95 4710368.99 4710369.03 0.0277 0.0262

Moon 8184-07-20 01:55 G 4710405.44 4710405.58 4710405.72 0.2671 0.0726

Earth 8184-07-20 02:23 G 4710405.45 4710405.60 4710405.74 0.2665 0.0691 *

Jupiter 8185-12-28 01:11 G 4710931.38 4710931.55 4710931.72 0.0485 0.0039

Mars 8187-06-11 20:52 G 4711462.27 4711462.37 4711462.46 0.1626 0.1262

Earth 8188-01-26 10:04 G 4711690.92 4711690.92 4711690.93 0.2670 0.2661

Mars 8188-04-23 05:45 G 4711778.65 4711778.74 4711778.82 0.1909 0.1360

Mars 8190-03-29 23:16 G 4712484.46 4712484.47 4712484.48 0.1886 0.1870

Jupiter 8191-12-02 02:38 G 4713096.47 4713096.61 4713096.74 0.0543 0.0029

Uranus 8192-09-25 13:40 G 4713395.03 4713395.07 4713395.14 0.0145 0.0137

Uranus 8192-12-22 20:52 G 4713483.26 4713483.37 4713483.49 0.0144 0.0109

Uranus 8193-03-21 04:04 G 4713571.53 4713571.67 4713571.82 0.0144 0.0082

Uranus 8193-06-17 11:02 G 4713659.80 4713659.96 4713660.14 0.0144 0.0055

Uranus 8193-09-13 18:28 G 4713748.09 4713748.27 4713748.45 0.0144 0.0026

Uranus 8193-12-11 01:40 G 4713836.39 4713836.57 4713836.76 0.0144 0.0004

Uranus 8194-03-09 09:07 G 4713924.70 4713924.88 4713925.06 0.0144 0.0030

Uranus 8194-06-05 16:33 G 4714013.02 4714013.19 4714013.35 0.0144 0.0058

Uranus 8194-09-01 23:45 G 4714101.35 4714101.49 4714101.64 0.0144 0.0087

Uranus 8194-11-29 06:57 G 4714189.70 4714189.79 4714189.92 0.0144 0.0116

Earth 8195-01-19 07:55 G 4714240.73 4714240.83 4714240.92 0.2665 0.1404

Moon 8195-01-19 08:09 G 4714240.75 4714240.84 4714240.94 0.2672 0.1421 *

Saturn 8197-07-16 03:36 G 4715149.58 4715149.65 4715149.72 0.0284 0.0254

Saturn 8197-10-12 21:50 G 4715238.27 4715238.41 4715238.56 0.0284 0.0122

Jupiter 8197-10-16 01:55 G 4715241.41 4715241.58 4715241.74 0.0485 0.0107

Saturn 8198-01-09 16:33 G 4715327.03 4715327.19 4715327.36 0.0283 0.0013

Saturn 8198-04-08 11:31 G 4715415.84 4715415.98 4715416.13 0.0283 0.0149

Mars 8198-10-08 12:28 G 4715598.89 4715599.02 4715599.14 0.1639 0.1039

Mars 8199-08-20 07:11 G 4715914.70 4715914.80 4715914.89 0.1892 0.1116

Venus 8202-04-09 23:31 G 4716877.40 4716877.48 4716877.55 0.3681 0.2668

Jupiter 8203-09-21 04:04 G 4717406.54 4717406.67 4717406.81 0.0543 0.0158

Jupiter 8203-12-19 16:04 G 4717496.13 4717496.17 4717496.21 0.0543 0.0511

Venus 8207-10-24 17:02 G 4718901.11 4718901.21 4718901.32 0.3682 0.1311

Earth 8208-01-23 02:23 G 4718991.49 4718991.60 4718991.71 0.2667 0.0080

Moon 8208-01-23 03:07 G 4718991.52 4718991.63 4718991.74 0.2668 0.0247 *

Mars 8208-02-29 14:52 G 4719028.96 4719029.12 4719029.28 0.1634 0.0268

Mars 8209-01-10 14:52 G 4719345.01 4719345.12 4719345.24 0.1898 0.0351

Venus 8209-05-08 03:07 G 4719462.51 4719462.63 4719462.76 0.3689 0.1528

Jupiter 8209-08-05 02:38 G 4719551.47 4719551.61 4719551.75 0.0485 0.0250

Jupiter 8209-11-02 23:45 G 4719641.38 4719641.49 4719641.61 0.0485 0.0358

Saturn 8212-11-12 11:16 G 4720746.87 4720746.97 4720747.08 0.0275 0.0182

Saturn 8213-02-09 00:28 G 4720835.38 4720835.52 4720835.66 0.0275 0.0075

Saturn 8213-05-08 13:26 G 4720923.92 4720924.06 4720924.20 0.0276 0.0031

Venus 8213-05-09 10:33 G 4720924.83 4720924.94 4720925.05 0.3682 0.0094

Saturn 8213-08-05 02:09 G 4721012.47 4721012.59 4721012.71 0.0276 0.0135

Neptune 8213-09-06 22:33 G 4721045.41 4721045.44 4721045.51 0.0088 0.0083

Saturn 8213-11-01 14:38 G 4721101.04 4721101.11 4721101.18 0.0276 0.0238

Neptune 8213-12-04 01:11 G 4721133.48 4721133.55 4721133.66 0.0088 0.0075

Neptune 8214-03-02 04:04 G 4721221.57 4721221.67 4721221.79 0.0088 0.0066

Neptune 8214-05-29 06:43 G 4721309.66 4721309.78 4721309.92 0.0088 0.0058

Neptune 8214-08-25 09:07 G 4721397.76 4721397.88 4721398.04 0.0088 0.0050

Neptune 8214-11-21 12:00 G 4721485.86 4721486.00 4721486.16 0.0088 0.0041

Venus 8214-11-22 05:02 G 4721486.58 4721486.71 4721486.85 0.3688 0.0890

Neptune 8215-02-17 14:38 G 4721573.96 4721574.11 4721574.28 0.0088 0.0033

Neptune 8215-05-16 17:31 G 4721662.06 4721662.23 4721662.40 0.0088 0.0024

Jupiter 8215-07-10 06:43 G 4721716.67 4721716.78 4721716.89 0.0543 0.0325

Neptune 8215-08-12 20:09 G 4721750.17 4721750.34 4721750.51 0.0088 0.0016

Jupiter 8215-10-07 19:11 G 4721806.20 4721806.30 4721806.40 0.0543 0.0353

Neptune 8215-11-08 22:48 G 4721838.28 4721838.45 4721838.63 0.0088 0.0008

Neptune 8216-02-05 01:40 G 4721926.39 4721926.57 4721926.74 0.0088 0.0002

Neptune 8216-05-03 04:19 G 4722014.51 4722014.68 4722014.85 0.0088 0.0010

Neptune 8216-07-30 06:57 G 4722102.62 4722102.79 4722102.97 0.0088 0.0018

Neptune 8216-10-26 09:36 G 4722190.74 4722190.90 4722191.08 0.0088 0.0027

Neptune 8217-01-22 12:14 G 4722278.86 4722279.01 4722279.19 0.0088 0.0036

Neptune 8217-04-20 15:21 G 4722366.99 4722367.14 4722367.29 0.0088 0.0044

Neptune 8217-07-17 18:00 G 4722455.12 4722455.25 4722455.40 0.0088 0.0053

Moon 8217-07-19 03:36 G 4722456.53 4722456.65 4722456.78 0.2672 0.1406

Earth 8217-07-19 04:48 G 4722456.57 4722456.70 4722456.82 0.2666 0.1343 *

Mars 8217-07-21 18:00 G 4722459.09 4722459.25 4722459.40 0.1630 0.0466

Neptune 8217-10-13 20:38 G 4722543.25 4722543.36 4722543.50 0.0088 0.0062

Neptune 8218-01-09 23:16 G 4722631.39 4722631.47 4722631.59 0.0088 0.0071

Neptune 8218-04-08 02:38 G 4722719.53 4722719.61 4722719.68 0.0088 0.0079

Mars 8218-06-02 22:33 G 4722775.32 4722775.44 4722775.56 0.1903 0.0449

Venus 8218-11-23 03:50 G 4722948.56 4722948.66 4722948.77 0.3683 0.1311

Venus 8220-06-07 07:40 G 4723510.77 4723510.82 4723510.87 0.3687 0.3429

Earth 8221-01-24 20:52 G 4723742.27 4723742.37 4723742.46 0.2669 0.1535

Moon 8221-01-24 21:36 G 4723742.31 4723742.40 4723742.49 0.2666 0.1594 *

Jupiter 8221-05-24 03:07 G 4723861.54 4723861.63 4723861.72 0.0485 0.0399

Jupiter 8221-08-21 23:45 G 4723951.33 4723951.49 4723951.64 0.0485 0.0201

Venus 8224-06-07 21:07 G 4724972.30 4724972.38 4724972.46 0.3684 0.2544

Mars 8226-12-11 21:21 G 4725889.28 4725889.39 4725889.49 0.1626 0.1178

Saturn 8227-03-02 20:38 G 4725970.23 4725970.36 4725970.50 0.0284 0.0169

Jupiter 8227-04-28 09:36 G 4726026.85 4726026.90 4726026.96 0.0543 0.0487

Saturn 8227-05-30 15:21 G 4726058.97 4726059.14 4726059.30 0.0284 0.0036

Jupiter 8227-07-26 22:33 G 4726116.31 4726116.44 4726116.56 0.0543 0.0199

Saturn 8227-08-27 10:04 G 4726147.77 4726147.92 4726148.08 0.0283 0.0100

Mars 8227-10-24 05:45 G 4726205.65 4726205.74 4726205.83 0.1909 0.1281

Saturn 8227-11-24 05:16 G 4726236.63 4726236.72 4726236.82 0.0283 0.0238

Earth 8228-01-18 18:00 G 4726292.23 4726292.25 4726292.28 0.2664 0.2593

Moon 8228-01-18 18:00 G 4726292.24 4726292.25 4726292.27 0.2671 0.2631 *

Moon 8230-07-22 08:23 G 4727207.72 4727207.85 4727207.98 0.2671 0.1105

Earth 8230-07-22 08:38 G 4727207.73 4727207.86 4727207.99 0.2664 0.1207 *

Jupiter 8233-06-10 00:00 G 4728261.33 4728261.50 4728261.67 0.0485 0.0051

Uranus 8235-07-07 12:14 G 4729018.98 4729019.01 4729019.05 0.0134 0.0129

Uranus 8235-10-03 15:36 G 4729107.08 4729107.15 4729107.23 0.0134 0.0112

Uranus 8235-12-30 19:11 G 4729195.21 4729195.30 4729195.40 0.0134 0.0094

Uranus 8236-03-27 22:33 G 4729283.33 4729283.44 4729283.56 0.0134 0.0077

Uranus 8236-06-24 02:09 G 4729371.47 4729371.59 4729371.72 0.0134 0.0059

Uranus 8236-09-20 05:31 G 4729459.60 4729459.73 4729459.87 0.0134 0.0042

Uranus 8236-12-17 09:07 G 4729547.74 4729547.88 4729548.01 0.0134 0.0024

Uranus 8237-03-15 12:28 G 4729635.88 4729636.02 4729636.16 0.0134 0.0007

Uranus 8237-06-11 15:50 G 4729724.02 4729724.16 4729724.30 0.0134 0.0011

Uranus 8237-09-07 19:11 G 4729812.17 4729812.30 4729812.44 0.0134 0.0028

Uranus 8237-12-04 22:33 G 4729900.31 4729900.44 4729900.57 0.0134 0.0045

Uranus 8238-03-03 01:55 G 4729988.46 4729988.58 4729988.70 0.0134 0.0062

Mars 8238-04-09 12:57 G 4730025.92 4730026.04 4730026.16 0.1639 0.1127

Uranus 8238-05-30 05:02 G 4730076.61 4730076.71 4730076.83 0.0134 0.0080

Uranus 8238-08-26 08:23 G 4730164.76 4730164.85 4730164.95 0.0134 0.0097

Uranus 8238-11-22 11:45 G 4730252.92 4730252.99 4730253.07 0.0135 0.0113

Uranus 8239-02-18 14:52 G 4730341.10 4730341.12 4730341.16 0.0135 0.0131

Mars 8239-02-19 07:11 G 4730341.71 4730341.80 4730341.89 0.1892 0.1195

Jupiter 8239-05-15 01:26 G 4730426.42 4730426.56 4730426.69 0.0543 0.0037

Pluto 8239-07-22 13:55 G 4730495.02 4730495.08 4730495.17 0.0073 0.0066

Pluto 8239-10-18 16:04 G 4730583.05 4730583.17 4730583.31 0.0073 0.0053

Pluto 8240-01-14 18:14 G 4730671.11 4730671.26 4730671.43 0.0073 0.0040

Pluto 8240-04-11 20:23 G 4730759.18 4730759.35 4730759.53 0.0072 0.0026

Pluto 8240-07-08 22:33 G 4730847.26 4730847.44 4730847.63 0.0072 0.0014

Pluto 8240-10-05 00:43 G 4730935.35 4730935.53 4730935.72 0.0072 0.0001

Pluto 8241-01-01 02:52 G 4731023.44 4731023.62 4731023.80 0.0072 0.0012

Earth 8241-01-20 12:43 G 4731042.93 4731043.03 4731043.14 0.2665 0.1091

Moon 8241-01-20 13:11 G 4731042.94 4731043.05 4731043.15 0.2671 0.0978 *

Pluto 8241-03-30 04:33 G 4731111.53 4731111.69 4731111.88 0.0072 0.0025

Pluto 8241-06-26 06:28 G 4731199.63 4731199.77 4731199.95 0.0072 0.0038

Pluto 8241-09-22 08:38 G 4731287.74 4731287.86 4731288.01 0.0072 0.0050

Pluto 8241-12-19 10:48 G 4731375.87 4731375.95 4731376.05 0.0072 0.0062

Saturn 8242-04-01 11:45 G 4731478.91 4731478.99 4731479.07 0.0275 0.0224

Saturn 8242-06-29 00:57 G 4731567.41 4731567.54 4731567.67 0.0275 0.0117

Saturn 8242-09-25 13:55 G 4731655.94 4731656.08 4731656.23 0.0276 0.0011

Saturn 8242-12-23 02:52 G 4731744.48 4731744.62 4731744.75 0.0276 0.0095

Saturn 8243-03-21 15:21 G 4731833.04 4731833.14 4731833.24 0.0277 0.0199

Jupiter 8245-03-29 00:28 G 4732571.35 4732571.52 4732571.68 0.0485 0.0100

Mars 8247-08-30 15:36 G 4733455.99 4733456.15 4733456.31 0.1635 0.0366

Mars 8248-07-11 15:07 G 4733772.01 4733772.13 4733772.24 0.1898 0.0424

Jupiter 8251-03-03 03:50 G 4734736.53 4734736.66 4734736.79 0.0543 0.0133

Jupiter 8251-05-31 15:50 G 4734826.13 4734826.16 4734826.18 0.0543 0.0533

Venus 8253-05-01 03:36 G 4735526.64 4735526.65 4735526.67 0.3681 0.3627

Earth 8254-01-23 07:26 G 4735793.69 4735793.81 4735793.92 0.2667 0.0400

Moon 8254-01-23 08:09 G 4735793.73 4735793.84 4735793.95 0.2667 0.0432 *

Saturn 8256-07-19 20:38 G 4736702.25 4736702.36 4736702.47 0.0284 0.0210

Saturn 8256-10-16 14:52 G 4736790.96 4736791.12 4736791.28 0.0284 0.0078

Saturn 8257-01-13 09:50 G 4736879.74 4736879.91 4736880.07 0.0283 0.0057

Jupiter 8257-01-15 01:11 G 4736881.41 4736881.55 4736881.70 0.0485 0.0242

Mars 8257-01-19 18:28 G 4736886.11 4736886.27 4736886.43 0.1630 0.0376

Saturn 8257-04-12 04:48 G 4736968.58 4736968.70 4736968.83 0.0283 0.0194

Jupiter 8257-04-14 22:19 G 4736971.33 4736971.43 4736971.55 0.0485 0.0367

Mars	8257-12-01 22:33 G	4737202.32	4737202.44	4737202.55	0.1904	0.0384
Venus	8258-11-14 21:21 G	4737550.31	4737550.39	4737550.48	0.3681	0.2241
Venus	8260-05-29 01:55 G	4738111.51	4738111.58	4738111.65	0.3689	0.3103
Jupiter	8262-12-20 05:16 G	4739046.61	4739046.72	4739046.83	0.0543	0.0322
Jupiter	8263-03-19 17:31 G	4739136.13	4739136.23	4739136.34	0.0543	0.0355
Moon	8263-07-20 09:50 G	4739258.78	4739258.91	4739259.05	0.2672	0.1024
Earth	8263-07-20 10:48 G	4739258.81	4739258.95	4739259.09	0.2666	0.0843 *
Venus	8264-05-30 15:07 G	4739574.02	4739574.13	4739574.24	0.3682	0.0890
Venus	8265-12-13 03:21 G	4740135.51	4740135.64	4740135.77	0.3688	0.0808
Mars	8266-06-11 21:36 G	4740316.29	4740316.40	4740316.52	0.1626	0.1097
Earth	8267-01-26 01:40 G	4740544.49	4740544.57	4740544.65	0.2669	0.1838
Moon	8267-01-26 02:23 G	4740544.52	4740544.60	4740544.67	0.2665	0.1971 *
Mars	8267-04-24 06:00 G	4740632.66	4740632.75	4740632.84	0.1909	0.1192
Jupiter	8268-11-03 02:09 G	4741191.49	4741191.59	4741191.69	0.0485	0.0385
Jupiter	8269-01-31 22:48 G	4741281.30	4741281.45	4741281.60	0.0485	0.0216
Venus	8269-12-14 08:38 G	4741597.75	4741597.86	4741597.97	0.3683	0.0428
Venus	8271-06-29 05:31 G	4742159.61	4742159.73	4742159.85	0.3688	0.1641
Saturn	8271-08-19 14:38 G	4742211.05	4742211.11	4742211.18	0.0275	0.0246
Saturn	8271-11-16 04:04 G	4742299.54	4742299.67	4742299.79	0.0275	0.0138
Saturn	8272-02-12 17:02 G	4742388.07	4742388.21	4742388.35	0.0275	0.0032
Saturn	8272-05-11 06:00 G	4742476.61	4742476.75	4742476.88	0.0276	0.0074
Saturn	8272-08-07 18:28 G	4742565.17	4742565.27	4742565.38	0.0276	0.0178
Moon	8274-01-18 23:02 G	4743094.40	4743094.46	4743094.52	0.2671	0.2268
Earth	8274-01-18 23:02 G	4743094.40	4743094.46	4743094.52	0.2664	0.2276 *
Jupiter	8274-10-08 07:40 G	4743356.77	4743356.82	4743356.88	0.0543	0.0494
Jupiter	8275-01-05 20:23 G	4743446.23	4743446.35	4743446.48	0.0543	0.0193
Venus	8275-06-30 01:55 G	4743621.48	4743621.58	4743621.67	0.3683	0.1698
Earth	8276-07-22 14:52 G	4744010.00	4744010.12	4744010.23	0.2664	0.1716
Moon	8276-07-22 14:52 G	4744010.02	4744010.12	4744010.23	0.2671	0.1826 *
Uranus	8276-10-16 20:38 G	4744096.30	4744096.36	4744096.44	0.0145	0.0132

Uranus 8277-01-13 03:36 G 4744184.54 4744184.65 4744184.79 0.0144 0.0105

Uranus 8277-04-11 11:02 G 4744272.81 4744272.96 4744273.11 0.0144 0.0077

Uranus 8277-07-08 18:14 G 4744361.09 4744361.26 4744361.43 0.0144 0.0049

Uranus 8277-10-05 01:26 G 4744449.38 4744449.56 4744449.74 0.0144 0.0021

Mars 8277-10-08 13:26 G 4744452.95 4744453.06 4744453.17 0.1639 0.1217

Uranus 8278-01-01 08:38 G 4744537.68 4744537.86 4744538.04 0.0144 0.0008

Uranus 8278-03-30 16:04 G 4744625.99 4744626.17 4744626.35 0.0144 0.0035

Uranus 8278-06-26 23:16 G 4744714.31 4744714.47 4744714.64 0.0144 0.0064

Mars 8278-08-20 07:26 G 4744768.72 4744768.81 4744768.89 0.1892 0.1275

Uranus 8278-09-23 06:43 G 4744802.65 4744802.78 4744802.93 0.0144 0.0092

Uranus 8278-12-20 14:09 G 4744891.00 4744891.09 4744891.19 0.0144 0.0121

Jupiter 8280-11-19 22:48 G 4745591.28 4745591.45 4745591.62 0.0485 0.0060

Venus 8281-01-12 18:57 G 4745645.23 4745645.29 4745645.35 0.3684 0.2929

Saturn 8285-12-06 19:55 G 4747434.26 4747434.33 4747434.41 0.0284 0.0252

Saturn 8286-03-05 14:23 G 4747522.95 4747523.10 4747523.25 0.0284 0.0121

Saturn 8286-06-02 08:52 G 4747611.71 4747611.87 4747612.04 0.0283 0.0014

Saturn 8286-08-30 03:50 G 4747700.52 4747700.66 4747700.81 0.0283 0.0149

Jupiter 8286-10-24 23:45 G 4747756.35 4747756.49 4747756.62 0.0543 0.0037

Earth 8287-01-21 17:45 G 4747845.13 4747845.24 4747845.35 0.2666 0.0778

Moon 8287-01-21 18:14 G 4747845.15 4747845.26 4747845.37 0.2670 0.0739 *

Mars 8287-02-28 16:04 G 4747883.02 4747883.17 4747883.33 0.1635 0.0459

Mars 8288-01-10 15:07 G 4748199.01 4748199.13 4748199.24 0.1898 0.0498

Jupiter 8292-09-07 23:16 G 4749901.30 4749901.47 4749901.63 0.0485 0.0089

Neptune 8296-03-14 21:07 G 4751185.35 4751185.38 4751185.45 0.0089 0.0084

Neptune 8296-06-10 23:02 G 4751273.39 4751273.46 4751273.55 0.0089 0.0076

Mars 8296-07-20 18:57 G 4751313.14 4751313.29 4751313.45 0.1630 0.0289

Neptune 8296-09-07 00:57 G 4751361.45 4751361.54 4751361.64 0.0089 0.0068

Neptune 8296-12-04 02:38 G 4751449.51 4751449.61 4751449.72 0.0089 0.0060

Neptune 8297-03-02 04:33 G 4751537.57 4751537.69 4751537.81 0.0089 0.0053

Neptune 8297-05-29 06:00 G 4751625.64 4751625.75 4751625.89 0.0089 0.0046

Mars 8297-06-01 22:48 G 4751629.33 4751629.45 4751629.56 0.1903 0.0302

Neptune 8297-08-25 07:55 G 4751713.71 4751713.83 4751713.97 0.0089 0.0038

Neptune 8297-11-21 09:36 G 4751801.77 4751801.90 4751802.04 0.0089 0.0030

Neptune 8298-02-17 11:31 G 4751889.84 4751889.98 4751890.12 0.0089 0.0022

Neptune 8298-05-16 13:11 G 4751977.91 4751978.05 4751978.19 0.0089 0.0015

Neptune 8298-08-12 14:52 G 4752065.98 4752066.12 4752066.27 0.0089 0.0008

Jupiter 8298-08-13 02:38 G 4752066.47 4752066.61 4752066.74 0.0543 0.0128

Neptune 8298-11-08 16:33 G 4752154.05 4752154.19 4752154.34 0.0089 0.0003

Jupiter 8298-11-10 14:23 G 4752156.09 4752156.10 4752156.11 0.0543 0.0539

Neptune 8299-02-04 18:28 G 4752242.12 4752242.27 4752242.41 0.0089 0.0008

Neptune 8299-05-03 20:09 G 4752330.20 4752330.34 4752330.48 0.0089 0.0015

Neptune 8299-07-30 21:36 G 4752418.27 4752418.40 4752418.55 0.0089 0.0022

Neptune 8299-10-26 23:16 G 4752506.34 4752506.47 4752506.61 0.0089 0.0030

Neptune 8300-01-23 00:57 G 4752594.42 4752594.54 4752594.68 0.0089 0.0037

Earth 8300-01-24 12:14 G 4752595.90 4752596.01 4752596.12 0.2667 0.0693

Moon 8300-01-24 12:57 G 4752595.94 4752596.04 4752596.15 0.2668 0.0873 *

Neptune 8300-04-21 02:38 G 4752682.49 4752682.61 4752682.74 0.0089 0.0044

Neptune 8300-07-18 04:19 G 4752770.57 4752770.68 4752770.80 0.0089 0.0051

Neptune 8300-10-14 06:00 G 4752858.65 4752858.75 4752858.86 0.0089 0.0059

Neptune 8301-01-10 07:40 G 4752946.73 4752946.82 4752946.91 0.0089 0.0066

Saturn 8301-04-05 04:19 G 4753031.58 4753031.68 4753031.80 0.0275 0.0180

Neptune 8301-04-08 09:21 G 4753034.81 4753034.89 4753034.97 0.0089 0.0073

Saturn 8301-07-02 17:31 G 4753120.10 4753120.23 4753120.37 0.0275 0.0073

Neptune 8301-07-05 10:33 G 4753122.90 4753122.94 4753123.02 0.0089 0.0081

Saturn 8301-09-29 06:28 G 4753208.63 4753208.77 4753208.92 0.0276 0.0034

Neptune 8301-10-01 12:14 G 4753211.00 4753211.01 4753211.05 0.0089 0.0088

Saturn 8301-12-26 19:11 G 4753297.18 4753297.30 4753297.43 0.0276 0.0138

Saturn 8302-03-25 07:55 G 4753385.76 4753385.83 4753385.89 0.0277 0.0241

Jupiter 8304-06-27 23:31 G 4754211.34 4754211.48 4754211.63 0.0485 0.0238

Jupiter 8304-09-25 20:38 G 4754301.26 4754301.36 4754301.48 0.0485 0.0371

Mars 8305-12-11 22:19 G 4754743.31 4754743.43 4754743.55 0.1626 0.1005

Mars 8306-10-24 05:45 G 4755059.65 4755059.74 4755059.84 0.1909 0.1127

Moon 8309-07-21 16:19 G 4756061.03 4756061.18 4756061.32 0.2671 0.0408

Earth 8309-07-21 17:02 G 4756061.07 4756061.21 4756061.36 0.2666 0.0337 *

Venus 8309-12-07 01:40 G 4756199.52 4756199.57 4756199.62 0.3681 0.3187

Jupiter 8310-06-02 05:02 G 4756376.59 4756376.71 4756376.82 0.0543 0.0300

Jupiter 8310-08-30 17:16 G 4756466.12 4756466.22 4756466.31 0.0543 0.0376

Earth 8313-01-27 06:43 G 4757346.71 4757346.78 4757346.84 0.2669 0.2144

Moon 8313-01-27 07:11 G 4757346.73 4757346.80 4757346.86 0.2664 0.2142 *

Venus 8315-06-22 19:26 G 4758223.22 4758223.31 4758223.41 0.3682 0.1811

Saturn 8315-07-24 13:55 G 4758254.95 4758255.08 4758255.22 0.0284 0.0164

Saturn 8315-10-21 08:38 G 4758343.69 4758343.86 4758344.02 0.0283 0.0031

Saturn 8316-01-18 03:21 G 4758432.49 4758432.64 4758432.80 0.0283 0.0105

Saturn 8316-04-15 22:33 G 4758521.36 4758521.44 4758521.53 0.0283 0.0243

Jupiter 8316-04-16 00:28 G 4758521.42 4758521.52 4758521.63 0.0485 0.0379 *

Jupiter 8316-07-14 21:07 G 4758611.24 4758611.38 4758611.54 0.0485 0.0223

Venus 8317-01-04 02:09 G 4758784.48 4758784.59 4758784.69 0.3689 0.2414

Mars 8317-04-09 14:09 G 4758879.99 4758880.09 4758880.18 0.1639 0.1315

Mars 8318-02-19 07:11 G 4759195.72 4759195.80 4759195.89 0.1892 0.1342

Uranus 8319-07-28 19:11 G 4759720.26 4759720.30 4759720.36 0.0134 0.0125

Uranus 8319-10-24 22:48 G 4759808.38 4759808.45 4759808.54 0.0134 0.0107

Uranus 8320-01-21 02:09 G 4759896.50 4759896.59 4759896.71 0.0134 0.0090

Earth 8320-01-21 04:04 G 4759896.59 4759896.67 4759896.74 0.2664 0.1957 *

Moon 8320-01-21 04:04 G 4759896.60 4759896.67 4759896.75 0.2671 0.1946 *

Uranus 8320-04-18 05:45 G 4759984.63 4759984.74 4759984.87 0.0134 0.0072

Uranus 8320-07-15 09:21 G 4760072.77 4760072.89 4760073.02 0.0134 0.0054

Uranus 8320-10-11 12:43 G 4760160.90 4760161.03 4760161.17 0.0134 0.0037

Venus 8321-01-05 13:11 G 4760246.94 4760247.05 4760247.16 0.3682 0.0485

Uranus 8321-01-07 16:19 G 4760249.04 4760249.18 4760249.32 0.0134 0.0019

Uranus 8321-04-05 19:40 G 4760337.18 4760337.32 4760337.46 0.0134 0.0003

Uranus 8321-07-02 23:02 G 4760425.33 4760425.46 4760425.60 0.0134 0.0016

Uranus 8321-09-29 02:23 G 4760513.47 4760513.60 4760513.74 0.0134 0.0033

Uranus 8321-12-26 05:45 G 4760601.62 4760601.74 4760601.87 0.0134 0.0050

Jupiter 8322-03-21 06:14 G 4760686.70 4760686.76 4760686.81 0.0543 0.0492

Uranus 8322-03-24 09:07 G 4760689.76 4760689.88 4760690.00 0.0134 0.0067

Jupiter 8322-06-18 18:57 G 4760776.16 4760776.29 4760776.42 0.0543 0.0193

Uranus 8322-06-20 12:14 G 4760777.92 4760778.01 4760778.13 0.0134 0.0085

Venus 8322-07-21 03:36 G 4760808.52 4760808.65 4760808.79 0.3688 0.0101

Earth 8322-07-24 21:07 G 4760812.30 4760812.38 4760812.46 0.2664 0.2235

Moon 8322-07-24 21:21 G 4760812.31 4760812.39 4760812.47 0.2671 0.2224 *

Uranus 8322-09-16 15:36 G 4760866.07 4760866.15 4760866.25 0.0134 0.0102

Uranus 8322-12-13 19:11 G 4760954.24 4760954.30 4760954.36 0.0135 0.0118

Venus 8326-07-22 06:28 G 4762270.67 4762270.77 4762270.88 0.3683 0.0834

Mars 8326-08-30 16:33 G 4762310.04 4762310.19 4762310.34 0.1635 0.0544

Mars 8327-07-12 15:07 G 4762626.02 4762626.13 4762626.25 0.1898 0.0584

Venus 8328-02-04 06:00 G 4762832.64 4762832.75 4762832.85 0.3687 0.2409

Jupiter 8328-05-02 21:36 G 4762921.24 4762921.40 4762921.57 0.0485 0.0074

Saturn 8330-08-23 07:40 G 4763763.72 4763763.82 4763763.92 0.0275 0.0200

Saturn 8330-11-19 20:52 G 4763852.23 4763852.37 4763852.50 0.0275 0.0093

Saturn 8331-02-16 09:50 G 4763940.77 4763940.91 4763941.05 0.0276 0.0013

Saturn 8331-05-15 22:33 G 4764029.31 4764029.44 4764029.57 0.0276 0.0118

Saturn 8331-08-12 11:02 G 4764117.89 4764117.96 4764118.05 0.0277 0.0222

Venus 8332-02-04 23:45 G 4764294.40 4764294.49 4764294.58 0.3683 0.2088

Earth 8333-01-22 22:33 G 4764647.33 4764647.44 4764647.56 0.2666 0.0477

Moon 8333-01-22 23:16 G 4764647.36 4764647.47 4764647.59 0.2669 0.0361 *

Jupiter 8334-04-06 21:36 G 4765086.26 4765086.40 4765086.54 0.0543 0.0026

Mars 8336-01-20 19:26 G 4765740.15 4765740.31 4765740.47 0.1631 0.0203

Mars 8336-12-01 22:48 G 4766056.33 4766056.45 4766056.56 0.1903 0.0227

Venus 8337-08-20 16:48 G 4766318.16 4766318.20 4766318.25 0.3684 0.3313

Jupiter 8340-02-19 21:36 G 4767231.24 4767231.40 4767231.57 0.0485 0.0083

Moon 8342-07-19 18:28 G 4768112.23 4768112.27 4768112.30 0.2671 0.2568

Earth 8342-07-19 19:40 G 4768112.25 4768112.32 4768112.39 0.2667 0.2332 *

Saturn 8344-12-10 14:09 G 4768986.98 4768987.09 4768987.21 0.0284 0.0201

Saturn 8345-03-09 08:38 G 4769075.70 4769075.86 4769076.02 0.0284 0.0069

Saturn 8345-06-06 03:21 G 4769164.48 4769164.64 4769164.80 0.0283 0.0066

Mars 8345-06-11 22:48 G 4769170.32 4769170.45 4769170.58 0.1626 0.0917

Saturn 8345-09-02 22:19 G 4769253.32 4769253.43 4769253.55 0.0283 0.0202

Jupiter 8346-01-24 00:28 G 4769396.39 4769396.52 4769396.66 0.0543 0.0136

Earth 8346-01-25 17:02 G 4769398.11 4769398.21 4769398.32 0.2667 0.1006

Moon 8346-01-25 18:00 G 4769398.14 4769398.25 4769398.35 0.2667 0.1053 *

Jupiter 8346-04-23 12:28 G 4769486.01 4769486.02 4769486.04 0.0543 0.0535

Mars 8346-04-24 06:00 G 4769486.65 4769486.75 4769486.85 0.1909 0.1040

Jupiter 8351-12-08 22:19 G 4771541.28 4771541.43 4771541.57 0.0485 0.0230

Jupiter 8352-03-07 19:26 G 4771631.20 4771631.31 4771631.41 0.0485 0.0378

Mars 8354-11-02 02:23 G 4772600.59 4772600.60 4772600.61 0.1623 0.1614

Moon 8355-07-22 22:48 G 4772863.30 4772863.45 4772863.59 0.2672 0.0116

Earth 8355-07-22 23:16 G 4772863.32 4772863.47 4772863.62 0.2666 0.0168 *

Mars 8355-09-14 12:57 G 4772917.03 4772917.04 4772917.06 0.1913 0.1889

Mars 8356-10-08 14:38 G 4773307.03 4773307.11 4773307.19 0.1639 0.1412

Mars 8357-08-20 07:26 G 4773622.73 4773622.81 4773622.89 0.1892 0.1424

Jupiter 8357-11-12 03:21 G 4773706.53 4773706.64 4773706.75 0.0543 0.0298

Jupiter 8358-02-09 15:36 G 4773796.06 4773796.15 4773796.25 0.0543 0.0379

Earth 8359-01-28 11:31 G 4774148.94 4774148.98 4774149.02 0.2669 0.2443

Moon 8359-01-28 12:00 G 4774148.97 4774149.00 4774149.03 0.2663 0.2557 *

Saturn 8360-01-10 08:09 G 4774495.77 4774495.84 4774495.91 0.0275 0.0241

Saturn 8360-04-07 21:36 G 4774584.27 4774584.40 4774584.53 0.0275 0.0133

Saturn 8360-07-05 10:33 G 4774672.80 4774672.94 4774673.09 0.0276 0.0027

Saturn 8360-10-01 23:31 G 4774761.34 4774761.48 4774761.62 0.0276 0.0080

Uranus 8360-11-07 03:50 G 4774797.58 4774797.66 4774797.75 0.0144 0.0126

Saturn 8360-12-29 12:00 G 4774849.90 4774850.00 4774850.11 0.0276 0.0184

Uranus	8361-02-03 10:48 G	4774885.83	4774885.95	4774886.09	0.0144	0.0098
Uranus	8361-05-02 18:14 G	4774974.10	4774974.26	4774974.41	0.0144	0.0071
Uranus	8361-07-30 01:11 G	4775062.38	4775062.55	4775062.73	0.0144	0.0043
Uranus	8361-10-26 08:23 G	4775150.68	4775150.85	4775151.03	0.0144	0.0016
Uranus	8362-01-22 15:50 G	4775238.98	4775239.16	4775239.34	0.0144	0.0013
Uranus	8362-04-20 23:02 G	4775327.29	4775327.46	4775327.64	0.0144	0.0041
Uranus	8362-07-18 06:28 G	4775415.61	4775415.77	4775415.93	0.0144	0.0069
Uranus	8362-10-14 13:40 G	4775503.95	4775504.07	4775504.21	0.0144	0.0098
Uranus	8363-01-10 21:07 G	4775592.31	4775592.38	4775592.47	0.0144	0.0127
Jupiter	8363-09-26 22:48 G	4775851.35	4775851.45	4775851.55	0.0485	0.0377
Jupiter	8363-12-25 19:26 G	4775941.16	4775941.31	4775941.46	0.0485	0.0224
Earth	8366-01-21 09:07 G	4776698.79	4776698.88	4776698.97	0.2665	0.1646
Moon	8366-01-21 09:07 G	4776698.80	4776698.88	4776698.97	0.2671	0.1646 *
Mars	8366-02-28 17:16 G	4776737.07	4776737.22	4776737.37	0.1635	0.0639
Venus	8366-07-13 23:45 G	4776872.42	4776872.49	4776872.57	0.3681	0.2748
Mars	8367-01-10 15:07 G	4777053.02	4777053.13	4777053.24	0.1898	0.0650
Jupiter	8369-08-31 05:31 G	4778016.67	4778016.73	4778016.80	0.0543	0.0472
Jupiter	8369-11-28 18:14 G	4778106.14	4778106.26	4778106.39	0.0543	0.0213
Venus	8372-01-27 17:31 G	4778896.13	4778896.23	4778896.33	0.3682	0.1384
Venus	8373-08-11 02:09 G	4779457.47	4779457.59	4779457.71	0.3689	0.1711
Saturn	8374-04-29 13:55 G	4779719.00	4779719.08	4779719.16	0.0284	0.0242
Saturn	8374-07-27 08:09 G	4779807.69	4779807.84	4779807.99	0.0284	0.0111
Saturn	8374-10-24 02:52 G	4779896.45	4779896.62	4779896.79	0.0283	0.0022
Saturn	8375-01-20 21:50 G	4779985.27	4779985.41	4779985.55	0.0283	0.0158
Mars	8375-07-21 20:09 G	4780167.18	4780167.34	4780167.50	0.1630	0.0112
Jupiter	8375-10-13 19:55 G	4780251.16	4780251.33	4780251.50	0.0485	0.0076
Mars	8376-06-01 22:48 G	4780483.33	4780483.45	4780483.57	0.1903	0.0151
Venus	8377-08-12 11:02 G	4780919.85	4780919.96	4780920.07	0.3682	0.0131
Neptune	8378-03-08 19:26 G	4781128.30	4781128.31	4781128.32	0.0088	0.0087
Neptune	8378-06-04 21:50 G	4781216.35	4781216.41	4781216.49	0.0088	0.0079

Neptune 8378-09-01 00:14 G 4781304.43 4781304.51 4781304.63 0.0088 0.0071

Neptune 8378-11-28 02:52 G 4781392.52 4781392.62 4781392.76 0.0088 0.0063

Earth 8379-01-24 03:36 G 4781449.54 4781449.65 4781449.77 0.2666 0.0156

Moon 8379-01-24 04:19 G 4781449.57 4781449.68 4781449.80 0.2669 0.0065 *

Neptune 8379-02-24 05:45 G 4781480.61 4781480.74 4781480.88 0.0088 0.0054

Venus 8379-02-25 04:04 G 4781481.53 4781481.67 4781481.80 0.3688 0.0680

Neptune 8379-05-23 08:23 G 4781568.71 4781568.85 4781569.00 0.0088 0.0046

Neptune 8379-08-19 10:48 G 4781656.81 4781656.95 4781657.12 0.0088 0.0038

Neptune 8379-11-15 13:40 G 4781744.91 4781745.07 4781745.24 0.0088 0.0029

Neptune 8380-02-11 16:19 G 4781833.02 4781833.18 4781833.36 0.0088 0.0021

Neptune 8380-05-09 19:11 G 4781921.13 4781921.30 4781921.47 0.0088 0.0012

Neptune 8380-08-05 21:50 G 4782009.24 4782009.41 4782009.59 0.0088 0.0004

Neptune 8380-11-02 00:43 G 4782097.35 4782097.53 4782097.70 0.0088 0.0005

Neptune 8381-01-29 03:07 G 4782185.47 4782185.63 4782185.81 0.0088 0.0014

Neptune 8381-04-27 06:00 G 4782273.58 4782273.75 4782273.92 0.0088 0.0022

Neptune 8381-07-24 08:38 G 4782361.70 4782361.86 4782362.03 0.0088 0.0031

Jupiter 8381-09-16 19:55 G 4782416.20 4782416.33 4782416.47 0.0543 0.0029

Neptune 8381-10-20 11:31 G 4782449.83 4782449.98 4782450.14 0.0088 0.0039

Neptune 8382-01-16 14:09 G 4782537.95 4782538.09 4782538.24 0.0088 0.0048

Neptune 8382-04-14 16:48 G 4782626.08 4782626.20 4782626.35 0.0088 0.0057

Neptune 8382-07-11 19:26 G 4782714.21 4782714.31 4782714.45 0.0088 0.0066

Neptune 8382-10-07 22:33 G 4782802.35 4782802.44 4782802.54 0.0088 0.0074

Neptune 8383-01-04 01:11 G 4782890.51 4782890.55 4782890.62 0.0088 0.0083

Venus 8383-02-26 04:33 G 4782943.58 4782943.69 4782943.79 0.3683 0.1233

Venus 8384-09-10 06:14 G 4783505.69 4783505.76 4783505.83 0.3687 0.3180

Mars 8384-12-10 23:16 G 4783597.33 4783597.47 4783597.60 0.1626 0.0837

Mars 8385-10-23 06:14 G 4783913.65 4783913.76 4783913.86 0.1909 0.0959

Jupiter 8387-08-01 20:23 G 4784561.19 4784561.35 4784561.52 0.0485 0.0073

Moon 8388-07-20 00:28 G 4784914.42 4784914.52 4784914.62 0.2671 0.1929

Earth 8388-07-20 01:40 G 4784914.47 4784914.57 4784914.68 0.2667 0.1844 *

Venus	8388-09-10 21:36 G	4784967.32	4784967.40	4784967.48	0.3684	0.2476	
Saturn	8389-05-29 11:31 G	4785227.93	4785227.98	4785228.02	0.0275	0.0260	
Saturn	8389-08-26 00:43 G	4785316.41	4785316.53	4785316.66	0.0275	0.0152	
Saturn	8389-11-22 13:55 G	4785404.94	4785405.08	4785405.22	0.0276	0.0045	
Saturn	8390-02-19 02:52 G	4785493.48	4785493.62	4785493.76	0.0276	0.0061	
Saturn	8390-05-18 15:36 G	4785582.04	4785582.15	4785582.26	0.0277	0.0165	
Saturn	8390-08-15 04:04 G	4785670.64	4785670.67	4785670.71	0.0277	0.0268	
Earth	8392-01-26 22:04 G	4786200.32	4786200.42	4786200.52	0.2668	0.1309	
Moon	8392-01-26 22:48 G	4786200.35	4786200.45	4786200.54	0.2666	0.1440	*
Jupiter	8393-07-05 22:19 G	4786726.30	4786726.43	4786726.57	0.0543	0.0145	
Jupiter	8393-10-03 10:19 G	4786815.90	4786815.93	4786815.97	0.0543	0.0525	
Mars	8394-05-03 02:52 G	4787027.57	4787027.62	4787027.67	0.1623	0.1529	
Mars	8395-03-15 13:11 G	4787344.01	4787344.05	4787344.09	0.1913	0.1807	
Mars	8396-04-08 15:07 G	4787734.07	4787734.13	4787734.19	0.1639	0.1496	
Mars	8397-02-18 07:26 G	4788049.74	4788049.81	4788049.88	0.1892	0.1502	
Jupiter	8399-05-20 20:38 G	4788871.21	4788871.36	4788871.50	0.0485	0.0226	
Jupiter	8399-08-18 17:31 G	4788961.13	4788961.23	4788961.34	0.0485	0.0382	
Moon	8401-07-23 05:16 G	4789665.58	4789665.72	4789665.86	0.2672	0.0609	
Earth	8401-07-23 05:31 G	4789665.58	4789665.73	4789665.87	0.2665	0.0678	*
Pluto	8401-09-29 19:11 G	4789734.29	4789734.30	4789734.34	0.0071	0.0070	
Pluto	8401-12-26 19:55 G	4789822.28	4789822.33	4789822.41	0.0071	0.0061	
Pluto	8402-03-24 20:38 G	4789910.28	4789910.36	4789910.47	0.0071	0.0053	
Pluto	8402-06-20 21:36 G	4789998.30	4789998.40	4789998.52	0.0071	0.0043	
Pluto	8402-09-16 22:19 G	4790086.32	4790086.43	4790086.56	0.0071	0.0034	
Pluto	8402-12-13 23:02 G	4790174.34	4790174.46	4790174.60	0.0071	0.0026	
Pluto	8403-03-12 00:00 G	4790262.37	4790262.50	4790262.64	0.0072	0.0016	
Pluto	8403-06-08 00:57 G	4790350.40	4790350.54	4790350.67	0.0072	0.0007	
Uranus	8403-08-18 02:23 G	4790421.55	4790421.60	4790421.67	0.0134	0.0121	
Pluto	8403-09-04 01:40 G	4790438.43	4790438.57	4790438.71	0.0072	0.0003	
Saturn	8403-09-16 14:52 G	4790451.08	4790451.12	4790451.16	0.0284	0.0274	

Uranus 8403-11-14 06:00 G 4790509.67 4790509.75 4790509.84 0.0134 0.0103

Pluto 8403-12-01 02:23 G 4790526.47 4790526.60 4790526.74 0.0072 0.0012

Saturn 8403-12-14 09:07 G 4790539.74 4790539.88 4790540.02 0.0284 0.0144

Uranus 8404-02-10 09:36 G 4790597.79 4790597.90 4790598.01 0.0134 0.0085

Pluto 8404-02-27 03:07 G 4790614.50 4790614.63 4790614.77 0.0072 0.0022

Saturn 8404-03-12 03:36 G 4790628.48 4790628.65 4790628.81 0.0283 0.0012

Uranus 8404-05-08 12:57 G 4790685.93 4790686.04 4790686.17 0.0134 0.0068

Pluto 8404-05-25 03:50 G 4790702.55 4790702.66 4790702.79 0.0072 0.0031

Saturn 8404-06-08 22:19 G 4790717.28 4790717.43 4790717.58 0.0283 0.0124

Uranus 8404-08-04 16:33 G 4790774.06 4790774.19 4790774.32 0.0134 0.0050

Pluto 8404-08-21 04:48 G 4790790.59 4790790.70 4790790.82 0.0072 0.0041

Saturn 8404-09-05 17:31 G 4790806.17 4790806.23 4790806.30 0.0283 0.0261

Uranus 8404-10-31 19:55 G 4790862.20 4790862.33 4790862.47 0.0134 0.0033

Pluto 8404-11-17 05:31 G 4790878.64 4790878.73 4790878.84 0.0072 0.0050

Uranus 8405-01-27 23:31 G 4790950.34 4790950.48 4790950.62 0.0134 0.0015

Pluto 8405-02-13 06:28 G 4790966.70 4790966.77 4790966.85 0.0073 0.0060

Jupiter 8405-04-24 01:11 G 4791036.44 4791036.55 4791036.66 0.0543 0.0308

Uranus 8405-04-26 02:52 G 4791038.48 4791038.62 4791038.76 0.0134 0.0002

Pluto 8405-05-12 07:11 G 4791054.77 4791054.80 4791054.84 0.0073 0.0070

Jupiter 8405-07-22 13:40 G 4791125.97 4791126.07 4791126.17 0.0543 0.0370

Uranus 8405-07-23 06:14 G 4791126.62 4791126.76 4791126.90 0.0134 0.0020

Mars 8405-08-29 17:45 G 4791164.10 4791164.24 4791164.39 0.1635 0.0734

Uranus 8405-10-19 09:36 G 4791214.77 4791214.90 4791215.04 0.0134 0.0037

Uranus 8406-01-15 12:57 G 4791302.92 4791303.04 4791303.17 0.0134 0.0054

Uranus 8406-04-13 16:19 G 4791391.07 4791391.18 4791391.30 0.0134 0.0071

Uranus 8406-07-10 19:26 G 4791479.22 4791479.31 4791479.42 0.0134 0.0089

Mars 8406-07-11 15:07 G 4791480.03 4791480.13 4791480.24 0.1898 0.0732

Uranus 8406-10-06 22:48 G 4791567.38 4791567.45 4791567.54 0.0135 0.0106

Uranus 8407-01-03 02:09 G 4791655.54 4791655.59 4791655.65 0.0135 0.0122

Jupiter 8411-03-08 21:07 G 4793181.28 4793181.38 4793181.49 0.0485 0.0372

Jupiter	8411-06-06 17:45 G	4793271.09	4793271.24	4793271.39	0.0485	0.0229
Earth	8412-01-22 13:55 G	4793500.98	4793501.08	4793501.18	0.2665	0.1328
Moon	8412-01-22 14:23 G	4793501.00	4793501.10	4793501.20	0.2670	0.1233 *
Mars	8415-01-19 20:38 G	4794594.20	4794594.36	4794594.52	0.1631	0.0020
Mars	8415-12-01 22:48 G	4794910.33	4794910.45	4794910.57	0.1903	0.0072
Jupiter	8417-02-10 03:50 G	4795346.60	4795346.66	4795346.73	0.0543	0.0474
Jupiter	8417-05-10 16:48 G	4795436.07	4795436.20	4795436.32	0.0543	0.0212
Saturn	8419-01-13 01:26 G	4796048.47	4796048.56	4796048.67	0.0275	0.0192
Saturn	8419-04-11 14:52 G	4796136.98	4796137.12	4796137.26	0.0275	0.0083
Saturn	8419-07-09 03:50 G	4796225.52	4796225.66	4796225.81	0.0276	0.0023
Saturn	8419-10-05 16:33 G	4796314.07	4796314.19	4796314.32	0.0276	0.0128
Saturn	8420-01-02 05:16 G	4796402.64	4796402.72	4796402.80	0.0277	0.0231
Venus	8423-02-17 21:50 G	4797545.33	4797545.41	4797545.50	0.3681	0.2315
Jupiter	8423-03-25 18:00 G	4797581.08	4797581.25	4797581.41	0.0485	0.0076
Mars	8424-06-11 00:00 G	4798024.36	4798024.50	4798024.64	0.1627	0.0741
Venus	8424-09-01 00:57 G	4798106.48	4798106.54	4798106.60	0.3689	0.3275
Earth	8425-01-24 08:38 G	4798251.74	4798251.86	4798251.97	0.2666	0.0178
Moon	8425-01-24 09:21 G	4798251.77	4798251.89	4798252.00	0.2669	0.0259 *
Mars	8425-04-23 06:14 G	4798340.65	4798340.76	4798340.86	0.1908	0.0886
Venus	8428-09-02 15:36 G	4799569.04	4799569.15	4799569.26	0.3682	0.0963
Jupiter	8429-02-26 19:26 G	4799746.17	4799746.31	4799746.44	0.0543	0.0047
Venus	8430-03-18 02:23 G	4800130.46	4800130.60	4800130.73	0.3689	0.1015
Saturn	8433-05-02 08:38 G	4801271.74	4801271.86	4801271.99	0.0284	0.0187
Saturn	8433-07-30 03:07 G	4801360.47	4801360.63	4801360.79	0.0283	0.0055
Saturn	8433-10-26 21:50 G	4801449.25	4801449.41	4801449.57	0.0283	0.0080
Mars	8433-11-01 03:21 G	4801454.57	4801454.64	4801454.71	0.1623	0.1448
Saturn	8434-01-23 17:02 G	4801538.10	4801538.21	4801538.32	0.0283	0.0216
Venus	8434-03-19 09:07 G	4801592.77	4801592.88	4801592.99	0.3683	0.0352
Moon	8434-07-21 06:57 G	4801716.67	4801716.79	4801716.90	0.2671	0.1572
Earth	8434-07-21 07:55 G	4801716.70	4801716.83	4801716.96	0.2667	0.1350 *

Mars 8434-09-13 13:11 G 4801771.00 4801771.05 4801771.10 0.1914 0.1728

Jupiter 8435-01-11 18:28 G 4801891.11 4801891.27 4801891.44 0.0485 0.0072

Venus 8435-10-02 04:19 G 4802154.55 4802154.68 4802154.80 0.3688 0.1413

Mars 8435-10-08 15:50 G 4802161.13 4802161.16 4802161.20 0.1640 0.1599

Mars 8436-08-19 07:26 G 4802476.75 4802476.81 4802476.87 0.1892 0.1569

Earth 8438-01-27 03:07 G 4803002.54 4803002.63 4803002.71 0.2668 0.1618

Moon 8438-01-27 03:36 G 4803002.57 4803002.65 4803002.74 0.2664 0.1689 *

Venus 8439-10-03 02:23 G 4803616.50 4803616.60 4803616.70 0.3683 0.1619

Jupiter 8440-12-15 20:52 G 4804056.24 4804056.37 4804056.50 0.0543 0.0145

Jupiter 8441-03-15 08:52 G 4804145.84 4804145.87 4804145.90 0.0543 0.0524

Uranus 8444-11-27 11:02 G 4805498.87 4805498.96 4805499.06 0.0144 0.0119

Moon 8445-01-20 00:00 G 4805552.46 4805552.50 4805552.54 0.2670 0.2488

Earth 8445-01-20 00:14 G 4805552.47 4805552.51 4805552.54 0.2663 0.2518 *

Uranus 8445-02-23 18:14 G 4805587.12 4805587.26 4805587.40 0.0144 0.0092

Mars 8445-02-27 18:14 G 4805591.12 4805591.26 4805591.40 0.1635 0.0816

Venus 8445-04-17 19:26 G 4805640.25 4805640.31 4805640.38 0.3684 0.2863

Uranus 8445-05-23 01:11 G 4805675.40 4805675.55 4805675.72 0.0144 0.0064

Uranus 8445-08-19 08:23 G 4805763.68 4805763.85 4805764.03 0.0144 0.0037

Uranus 8445-11-15 15:50 G 4805851.98 4805852.16 4805852.34 0.0144 0.0009

Mars 8446-01-09 15:21 G 4805907.03 4805907.14 4805907.25 0.1898 0.0808

Uranus 8446-02-11 23:02 G 4805940.28 4805940.46 4805940.64 0.0144 0.0020

Uranus 8446-05-11 06:14 G 4806028.59 4806028.76 4806028.93 0.0144 0.0048

Uranus 8446-08-07 13:40 G 4806116.92 4806117.07 4806117.22 0.0144 0.0076

Jupiter 8446-10-30 19:11 G 4806201.15 4806201.30 4806201.45 0.0485 0.0219

Uranus 8446-11-03 20:52 G 4806205.26 4806205.37 4806205.50 0.0144 0.0105

Jupiter 8447-01-28 16:04 G 4806291.08 4806291.17 4806291.28 0.0485 0.0390

Uranus 8447-01-31 04:33 G 4806293.63 4806293.69 4806293.76 0.0144 0.0133

Moon 8447-07-24 11:31 G 4806467.85 4806467.98 4806468.11 0.2673 0.1234

Earth 8447-07-24 11:31 G 4806467.85 4806467.98 4806468.12 0.2665 0.1180 *

Saturn 8448-06-01 04:48 G 4806780.61 4806780.70 4806780.80 0.0275 0.0211

Saturn 8448-08-28 18:14 G 4806869.12 4806869.26 4806869.39 0.0276 0.0103

Saturn 8448-11-25 07:11 G 4806957.66 4806957.80 4806957.95 0.0276 0.0007

Saturn 8449-02-21 20:09 G 4807046.21 4807046.34 4807046.47 0.0277 0.0109

Saturn 8449-05-21 08:38 G 4807134.78 4807134.86 4807134.96 0.0277 0.0213

Jupiter 8452-10-03 23:02 G 4808366.35 4808366.46 4808366.57 0.0543 0.0319

Jupiter 8453-01-01 11:31 G 4808455.88 4808455.98 4808456.08 0.0543 0.0359

Mars 8454-07-20 21:07 G 4809021.22 4809021.38 4809021.54 0.1631 0.0084

Mars 8455-06-01 23:02 G 4809337.34 4809337.46 4809337.58 0.1903 0.0052

Earth 8458-01-22 18:57 G 4810303.18 4810303.29 4810303.39 0.2665 0.1012

Moon 8458-01-22 19:26 G 4810303.21 4810303.31 4810303.42 0.2670 0.1002 *

Jupiter 8458-08-18 19:11 G 4810511.20 4810511.30 4810511.41 0.0485 0.0371

Jupiter 8458-11-16 15:50 G 4810601.01 4810601.16 4810601.31 0.0485 0.0229

Neptune 8460-09-13 19:11 G 4811268.28 4811268.30 4811268.34 0.0089 0.0087

Neptune 8460-12-10 21:07 G 4811356.32 4811356.38 4811356.45 0.0089 0.0080

Neptune 8461-03-08 22:33 G 4811444.37 4811444.44 4811444.54 0.0089 0.0073

Neptune 8461-06-05 00:28 G 4811532.43 4811532.52 4811532.63 0.0089 0.0065

Neptune 8461-09-01 02:23 G 4811620.49 4811620.60 4811620.72 0.0089 0.0057

Neptune 8461-11-28 04:04 G 4811708.56 4811708.67 4811708.80 0.0089 0.0049

Neptune 8462-02-24 06:00 G 4811796.62 4811796.75 4811796.88 0.0089 0.0042

Neptune 8462-05-23 07:40 G 4811884.69 4811884.82 4811884.96 0.0089 0.0034

Neptune 8462-08-19 09:21 G 4811972.76 4811972.89 4811973.03 0.0089 0.0027

Saturn 8462-09-19 10:19 G 4812003.83 4812003.93 4812004.04 0.0284 0.0214

Neptune 8462-11-15 11:02 G 4812060.83 4812060.96 4812061.11 0.0089 0.0020

Saturn 8462-12-17 04:33 G 4812092.54 4812092.69 4812092.85 0.0284 0.0083

Neptune 8463-02-11 12:57 G 4812148.90 4812149.04 4812149.18 0.0089 0.0012

Saturn 8463-03-15 23:16 G 4812181.31 4812181.47 4812181.64 0.0283 0.0051

Neptune 8463-05-10 14:38 G 4812236.97 4812237.11 4812237.25 0.0089 0.0004

Saturn 8463-06-12 18:14 G 4812270.14 4812270.26 4812270.39 0.0283 0.0186

Neptune 8463-08-06 16:19 G 4812325.04 4812325.18 4812325.33 0.0089 0.0003

Neptune 8463-11-02 18:00 G 4812413.11 4812413.25 4812413.39 0.0089 0.0011

Mars 8463-12-11 00:28 G 4812451.37 4812451.52 4812451.66 0.1627 0.0656

Neptune 8464-01-29 19:40 G 4812501.18 4812501.32 4812501.46 0.0089 0.0018

Neptune 8464-04-26 21:21 G 4812589.25 4812589.39 4812589.53 0.0089 0.0025

Jupiter 8464-07-23 01:26 G 4812676.51 4812676.56 4812676.62 0.0543 0.0488

Neptune 8464-07-23 23:02 G 4812677.33 4812677.46 4812677.59 0.0089 0.0033

Neptune 8464-10-20 00:28 G 4812765.40 4812765.52 4812765.66 0.0089 0.0041

Jupiter 8464-10-20 14:23 G 4812765.98 4812766.10 4812766.23 0.0543 0.0200

Mars 8464-10-22 06:14 G 4812767.65 4812767.76 4812767.87 0.1909 0.0805

Neptune 8465-01-16 02:09 G 4812853.48 4812853.59 4812853.72 0.0089 0.0048

Neptune 8465-04-14 03:50 G 4812941.56 4812941.66 4812941.78 0.0089 0.0055

Neptune 8465-07-11 05:45 G 4813029.64 4813029.74 4813029.84 0.0089 0.0062

Neptune 8465-10-07 06:57 G 4813117.72 4813117.79 4813117.90 0.0089 0.0070

Neptune 8466-01-03 08:38 G 4813205.80 4813205.86 4813205.95 0.0089 0.0077

Neptune 8466-04-01 10:19 G 4813293.89 4813293.93 4813293.99 0.0089 0.0084

Jupiter 8470-09-04 16:04 G 4814911.00 4814911.17 4814911.34 0.0485 0.0078

Earth 8471-01-25 13:26 G 4815053.95 4815054.06 4815054.17 0.2667 0.0467

Moon 8471-01-25 14:09 G 4815053.98 4815054.09 4815054.20 0.2668 0.0598 *

Mars 8473-05-02 03:50 G 4815881.58 4815881.66 4815881.75 0.1623 0.1359

Venus 8474-03-11 02:09 G 4816194.54 4816194.59 4816194.64 0.3681 0.3265

Mars 8474-03-14 13:26 G 4816198.00 4816198.06 4816198.12 0.1913 0.1646

Mars 8476-02-18 07:40 G 4816903.76 4816903.82 4816903.87 0.1892 0.1650

Jupiter 8476-08-08 17:31 G 4817076.09 4817076.23 4817076.36 0.0543 0.0041

Saturn 8477-10-19 05:45 G 4817512.69 4817512.74 4817512.81 0.0275 0.0248

Saturn 8478-01-15 19:11 G 4817601.18 4817601.30 4817601.43 0.0275 0.0140

Saturn 8478-04-14 08:23 G 4817689.71 4817689.85 4817690.00 0.0276 0.0033

Saturn 8478-07-11 21:21 G 4817778.25 4817778.39 4817778.53 0.0276 0.0073

Saturn 8478-10-08 10:04 G 4817866.81 4817866.92 4817867.03 0.0277 0.0177

Venus 8479-09-24 19:55 G 4818218.24 4818218.33 4818218.43 0.3682 0.1890

Moon 8480-07-21 13:11 G 4818518.91 4818519.05 4818519.19 0.2672 0.0867

Earth 8480-07-21 13:55 G 4818518.95 4818519.08 4818519.22 0.2667 0.0860 *

Venus 8481-04-08 00:57 G 4818779.45 4818779.54 4818779.64 0.3689 0.2604

Jupiter 8482-06-23 16:19 G 4819221.01 4819221.18 4819221.35 0.0485 0.0074

Earth 8484-01-28 07:55 G 4819804.75 4819804.83 4819804.91 0.2668 0.1920

Moon 8484-01-28 08:38 G 4819804.78 4819804.86 4819804.93 0.2664 0.2002 *

Mars 8484-08-28 18:57 G 4820018.16 4820018.29 4820018.42 0.1635 0.0919

Venus 8485-04-09 13:40 G 4820241.96 4820242.07 4820242.18 0.3682 0.0554

Mars 8485-07-10 15:21 G 4820334.04 4820334.14 4820334.25 0.1897 0.0883

Venus 8486-10-23 02:23 G 4820803.47 4820803.60 4820803.74 0.3688 0.0305

Pluto 8487-05-22 20:23 G 4821015.32 4821015.35 4821015.41 0.0073 0.0070

Uranus 8487-06-11 06:14 G 4821034.76 4821034.76 4821034.76 0.0134 0.0134

Pluto 8487-08-18 22:33 G 4821103.34 4821103.44 4821103.57 0.0073 0.0057

Uranus 8487-09-07 09:36 G 4821122.84 4821122.90 4821122.97 0.0134 0.0116

Pluto 8487-11-15 00:43 G 4821191.39 4821191.53 4821191.69 0.0073 0.0044

Uranus 8487-12-04 12:57 G 4821210.96 4821211.04 4821211.15 0.0134 0.0099

Pluto 8488-02-11 02:52 G 4821279.46 4821279.62 4821279.80 0.0073 0.0031

Uranus 8488-03-01 16:33 G 4821299.09 4821299.19 4821299.31 0.0134 0.0081

Pluto 8488-05-09 05:02 G 4821367.54 4821367.71 4821367.90 0.0072 0.0018

Jupiter 8488-05-27 19:55 G 4821386.20 4821386.33 4821386.46 0.0543 0.0131

Uranus 8488-05-28 20:09 G 4821387.22 4821387.34 4821387.47 0.0134 0.0063

Pluto 8488-08-05 07:26 G 4821455.62 4821455.81 4821455.99 0.0072 0.0004

Uranus 8488-08-24 23:31 G 4821475.36 4821475.48 4821475.62 0.0134 0.0046

Jupiter 8488-08-25 07:55 G 4821475.82 4821475.83 4821475.85 0.0543 0.0538

Pluto 8488-11-01 09:21 G 4821543.71 4821543.89 4821544.08 0.0072 0.0009

Uranus 8488-11-21 03:07 G 4821563.50 4821563.63 4821563.77 0.0134 0.0028

Pluto 8489-01-28 11:31 G 4821631.80 4821631.98 4821632.16 0.0072 0.0021

Uranus 8489-02-17 06:43 G 4821651.64 4821651.78 4821651.91 0.0134 0.0011

Pluto 8489-04-26 13:26 G 4821719.90 4821720.06 4821720.23 0.0072 0.0034

Uranus 8489-05-16 10:04 G 4821739.78 4821739.92 4821740.06 0.0134 0.0007

Pluto 8489-07-23 15:07 G 4821808.01 4821808.13 4821808.29 0.0072 0.0047

Uranus 8489-08-12 13:26 G 4821827.92 4821828.06 4821828.20 0.0134 0.0024

Pluto 8489-10-19 17:16 G 4821896.13 4821896.22 4821896.34 0.0072 0.0059

Uranus 8489-11-08 16:48 G 4821916.07 4821916.20 4821916.33 0.0134 0.0041

Pluto 8490-01-15 19:11 G 4821984.30 4821984.30 4821984.34 0.0072 0.0071

Uranus 8490-02-04 20:09 G 4822004.22 4822004.34 4822004.47 0.0134 0.0058

Uranus 8490-05-03 23:31 G 4822092.37 4822092.48 4822092.59 0.0134 0.0076

Uranus 8490-07-31 02:52 G 4822180.52 4822180.62 4822180.72 0.0135 0.0093

Venus 8490-10-24 06:57 G 4822265.68 4822265.79 4822265.90 0.3683 0.0748

Uranus 8490-10-27 06:00 G 4822268.68 4822268.75 4822268.84 0.0135 0.0110

Earth 8491-01-21 05:16 G 4822354.65 4822354.72 4822354.78 0.2664 0.2196

Moon 8491-01-21 05:16 G 4822354.66 4822354.72 4822354.77 0.2670 0.2265 *

Uranus 8491-01-23 09:21 G 4822356.85 4822356.89 4822356.94 0.0135 0.0127

Saturn 8492-02-06 09:50 G 4822735.85 4822735.91 4822735.98 0.0284 0.0257

Saturn 8492-05-05 04:04 G 4822824.53 4822824.67 4822824.82 0.0284 0.0127

Venus 8492-05-08 04:33 G 4822827.57 4822827.69 4822827.80 0.3687 0.2151

Saturn 8492-08-01 22:33 G 4822913.28 4822913.44 4822913.61 0.0283 0.0011

Saturn 8492-10-29 17:31 G 4823002.09 4823002.23 4823002.38 0.0283 0.0142

Saturn 8493-01-26 12:43 G 4823091.01 4823091.03 4823091.06 0.0282 0.0279

Moon 8493-07-24 17:45 G 4823270.12 4823270.24 4823270.36 0.2672 0.1615

Earth 8493-07-24 17:45 G 4823270.13 4823270.24 4823270.35 0.2665 0.1690 *

Mars 8494-01-18 21:50 G 4823448.25 4823448.41 4823448.56 0.1631 0.0167

Jupiter 8494-04-11 17:02 G 4823531.06 4823531.21 4823531.36 0.0485 0.0220

Jupiter 8494-07-10 14:09 G 4823620.99 4823621.09 4823621.19 0.0485 0.0389

Mars 8494-11-30 23:02 G 4823764.34 4823764.46 4823764.57 0.1903 0.0116

Venus 8496-05-09 00:14 G 4824289.42 4824289.51 4824289.60 0.3684 0.2012

Jupiter 8500-03-16 21:21 G 4825696.28 4825696.39 4825696.50 0.0543 0.0319

Jupiter 8500-06-14 09:50 G 4825785.81 4825785.91 4825786.01 0.0543 0.0358

Venus 8501-11-23 17:16 G 4826313.17 4826313.22 4826313.27 0.3684 0.3234

Mars 8503-06-12 00:57 G 4826878.39 4826878.54 4826878.68 0.1627 0.0574

Earth 8504-01-24 23:45 G 4827105.38 4827105.49 4827105.61 0.2665 0.0708

Moon 8504-01-25 00:28 G 4827105.41 4827105.52 4827105.63 0.2670 0.0556 *

Mars 8504-04-23 06:28 G 4827194.66 4827194.77 4827194.88 0.1908 0.0716

Jupiter 8506-01-29 17:31 G 4827841.13 4827841.23 4827841.34 0.0485 0.0367

Jupiter 8506-04-29 14:09 G 4827930.94 4827931.09 4827931.24 0.0485 0.0235

Saturn 8507-03-09 09:07 G 4828244.85 4828244.88 4828244.91 0.0275 0.0268

Saturn 8507-06-05 22:33 G 4828333.32 4828333.44 4828333.56 0.0276 0.0159

Saturn 8507-09-02 11:45 G 4828421.85 4828421.99 4828422.13 0.0276 0.0052

Saturn 8507-11-30 00:43 G 4828510.39 4828510.53 4828510.67 0.0277 0.0055

Saturn 8508-02-26 13:40 G 4828598.95 4828599.07 4828599.18 0.0277 0.0159

Saturn 8508-05-25 02:09 G 4828687.55 4828687.59 4828687.63 0.0277 0.0262

Jupiter 8512-01-03 23:16 G 4830006.42 4830006.47 4830006.53 0.0543 0.0497

Jupiter 8512-04-02 12:14 G 4830095.89 4830096.01 4830096.14 0.0543 0.0189

Mars 8512-11-01 04:19 G 4830308.59 4830308.68 4830308.78 0.1623 0.1273

Mars 8513-09-13 13:26 G 4830624.99 4830625.06 4830625.13 0.1913 0.1569

Mars 8515-08-20 07:40 G 4831330.78 4831330.82 4831330.87 0.1891 0.1730

Earth 8517-01-26 18:28 G 4831856.16 4831856.27 4831856.38 0.2667 0.0779

Moon 8517-01-26 19:11 G 4831856.19 4831856.30 4831856.41 0.2666 0.0829 *

Jupiter 8518-02-15 13:55 G 4832240.92 4832241.08 4832241.25 0.0485 0.0077

Saturn 8521-06-26 12:14 G 4833467.99 4833468.01 4833468.04 0.0284 0.0279

Saturn 8521-09-23 06:14 G 4833556.62 4833556.76 4833556.90 0.0284 0.0150

Saturn 8521-12-21 00:43 G 4833645.36 4833645.53 4833645.70 0.0283 0.0018

Saturn 8522-03-19 19:26 G 4833734.16 4833734.31 4833734.47 0.0283 0.0117

Saturn 8522-06-16 14:38 G 4833823.04 4833823.11 4833823.19 0.0282 0.0253

Jupiter 8524-01-20 15:07 G 4834405.99 4834406.13 4834406.26 0.0543 0.0026

Mars 8524-02-28 19:26 G 4834445.19 4834445.31 4834445.44 0.1635 0.1011

Mars 8525-01-09 15:21 G 4834761.04 4834761.14 4834761.24 0.1897 0.0958

Moon 8526-07-23 19:26 G 4835321.17 4835321.31 4835321.46 0.2673 0.0535

Earth 8526-07-23 20:09 G 4835321.19 4835321.34 4835321.48 0.2667 0.0364 *

Uranus 8528-09-21 11:02 G 4836111.93 4836111.96 4836112.02 0.0144 0.0140

Uranus 8528-12-18 18:14 G 4836200.16 4836200.26 4836200.38 0.0144 0.0112

Uranus 8529-03-17 01:11 G 4836288.42 4836288.55 4836288.70 0.0144 0.0085

Uranus 8529-06-13 08:23 G 4836376.69 4836376.85 4836377.02 0.0144 0.0058

Uranus 8529-09-09 15:36 G 4836464.98 4836465.15 4836465.33 0.0144 0.0030

Jupiter 8529-12-04 14:23 G 4836550.94 4836551.10 4836551.27 0.0485 0.0073

Uranus 8529-12-06 23:02 G 4836553.28 4836553.46 4836553.64 0.0144 0.0003

Earth 8530-01-29 12:57 G 4836606.98 4836607.04 4836607.10 0.2668 0.2227

Moon 8530-01-29 13:26 G 4836607.01 4836607.06 4836607.11 0.2664 0.2318 *

Uranus 8530-03-05 06:14 G 4836641.58 4836641.76 4836641.94 0.0144 0.0026

Uranus 8530-06-01 13:26 G 4836729.90 4836730.06 4836730.23 0.0144 0.0055

Uranus 8530-08-28 20:38 G 4836818.22 4836818.36 4836818.52 0.0144 0.0083

Venus 8530-10-17 00:14 G 4836867.44 4836867.51 4836867.58 0.3681 0.2840

Uranus 8530-11-25 04:19 G 4836906.57 4836906.68 4836906.79 0.0144 0.0111

Uranus 8531-02-21 11:31 G 4836994.95 4836994.98 4836995.03 0.0144 0.0140

Mars 8533-07-20 22:19 G 4837875.27 4837875.43 4837875.59 0.1631 0.0255

Mars 8534-06-01 23:02 G 4838191.34 4838191.46 4838191.58 0.1903 0.0181

Jupiter 8535-11-08 18:00 G 4838716.12 4838716.25 4838716.38 0.0543 0.0138

Jupiter 8536-02-06 06:00 G 4838805.73 4838805.75 4838805.77 0.0543 0.0533

Venus 8536-05-01 18:00 G 4838891.15 4838891.25 4838891.35 0.3682 0.1465

Saturn 8536-10-22 23:45 G 4839065.39 4839065.49 4839065.59 0.0275 0.0195

Saturn 8537-01-19 12:57 G 4839153.91 4839154.04 4839154.18 0.0275 0.0088

Earth 8537-01-22 10:04 G 4839156.84 4839156.92 4839157.00 0.2664 0.1885

Moon 8537-01-22 10:19 G 4839156.85 4839156.93 4839157.01 0.2670 0.1820 *

Saturn 8537-04-18 02:09 G 4839242.44 4839242.59 4839242.73 0.0276 0.0019

Saturn 8537-07-15 14:52 G 4839331.00 4839331.12 4839331.25 0.0276 0.0124

Saturn 8537-10-12 03:36 G 4839419.57 4839419.65 4839419.73 0.0277 0.0227

Venus 8537-11-14 00:57 G 4839452.43 4839452.54 4839452.66 0.3689 0.1915

Earth 8539-07-27 00:00 G 4840072.42 4840072.50 4840072.58 0.2665 0.2197

Moon 8539-07-27 00:14 G 4840072.44 4840072.51 4840072.58 0.2671 0.2319 *

Jupiter 8541-09-22 14:38 G 4840860.97 4840861.11 4840861.26 0.0485 0.0224

Venus 8541-11-15 11:31 G 4840914.87 4840914.98 4840915.09 0.3683 0.0143

Jupiter 8541-12-21 11:45 G 4840950.89 4840950.99 4840951.09 0.0485 0.0384

Neptune 8542-12-04 18:00 G 4841299.22 4841299.25 4841299.32 0.0088 0.0084

Mars 8542-12-11 01:26 G 4841305.41 4841305.56 4841305.71 0.1627 0.0478

Neptune 8543-03-02 21:07 G 4841387.29 4841387.38 4841387.47 0.0088 0.0075

Neptune 8543-05-29 23:31 G 4841475.38 4841475.48 4841475.60 0.0088 0.0067

Venus 8543-05-31 02:38 G 4841476.47 4841476.61 4841476.75 0.3688 0.0430

Neptune 8543-08-26 01:55 G 4841563.47 4841563.58 4841563.72 0.0088 0.0059

Mars 8543-10-23 06:28 G 4841621.65 4841621.77 4841621.88 0.1908 0.0654

Neptune 8543-11-22 04:33 G 4841651.57 4841651.69 4841651.85 0.0088 0.0051

Neptune 8544-02-18 07:26 G 4841739.66 4841739.81 4841739.97 0.0088 0.0042

Neptune 8544-05-16 10:04 G 4841827.77 4841827.92 4841828.09 0.0088 0.0034

Neptune 8544-08-12 12:57 G 4841915.87 4841916.04 4841916.20 0.0088 0.0025

Neptune 8544-11-08 15:21 G 4842003.98 4842004.14 4842004.32 0.0088 0.0017

Neptune 8545-02-04 18:14 G 4842092.09 4842092.26 4842092.43 0.0088 0.0008

Neptune 8545-05-03 20:52 G 4842180.20 4842180.37 4842180.55 0.0088 0.0001

Neptune 8545-07-30 23:31 G 4842268.31 4842268.48 4842268.66 0.0088 0.0009

Neptune 8545-10-27 02:23 G 4842356.43 4842356.60 4842356.77 0.0088 0.0017

Neptune 8546-01-23 05:02 G 4842444.55 4842444.71 4842444.88 0.0088 0.0026

Neptune 8546-04-21 07:40 G 4842532.67 4842532.82 4842532.99 0.0088 0.0035

Neptune 8546-07-18 10:33 G 4842620.79 4842620.94 4842621.10 0.0088 0.0043

Neptune 8546-10-14 13:11 G 4842708.92 4842709.05 4842709.20 0.0088 0.0052

Neptune 8547-01-10 15:50 G 4842797.05 4842797.16 4842797.30 0.0088 0.0061

Neptune 8547-04-08 18:57 G 4842885.18 4842885.29 4842885.40 0.0088 0.0069

Venus 8547-06-01 05:02 G 4842938.60 4842938.71 4842938.81 0.3683 0.1154

Neptune 8547-07-05 21:36 G 4842973.33 4842973.40 4842973.49 0.0088 0.0078

Jupiter 8547-08-27 20:23 G 4843026.24 4843026.35 4843026.46 0.0543 0.0308

Neptune 8547-10-02 00:14 G 4843061.50 4843061.51 4843061.55 0.0088 0.0087

Jupiter 8547-11-25 08:52 G 4843115.77 4843115.87 4843115.97 0.0543 0.0370

Venus 8548-12-14 04:48 G 4843500.62 4843500.70 4843500.79 0.3687 0.2917

Earth 8550-01-25 04:48 G 4843907.59 4843907.70 4843907.82 0.2665 0.0386

Moon 8550-01-25 05:31 G 4843907.61 4843907.73 4843907.84 0.2670 0.0379 *

Saturn	8551-02-10 05:45 G	4844288.62	4844288.74	4844288.86	0.0284	0.0194
Saturn	8551-05-10 00:00 G	4844377.34	4844377.50	4844377.67	0.0283	0.0063
Saturn	8551-08-06 18:43 G	4844466.12	4844466.28	4844466.45	0.0283	0.0072
Saturn	8551-11-03 13:40 G	4844554.96	4844555.07	4844555.19	0.0283	0.0208
Mars	8552-05-02 04:48 G	4844735.60	4844735.70	4844735.81	0.1623	0.1189
Venus	8552-12-14 22:04 G	4844962.34	4844962.42	4844962.51	0.3684	0.2399
Mars	8553-03-14 13:40 G	4845051.99	4845052.07	4845052.14	0.1914	0.1483
Jupiter	8553-07-11 15:36 G	4845171.04	4845171.15	4845171.26	0.0485	0.0368
Jupiter	8553-10-09 12:00 G	4845260.85	4845261.00	4845261.15	0.0485	0.0233
Mars	8555-02-18 07:40 G	4845757.78	4845757.82	4845757.85	0.1891	0.1797
Venus	8558-06-30 15:07 G	4846986.12	4846986.13	4846986.15	0.3684	0.3609
Jupiter	8559-06-15 21:50 G	4847336.35	4847336.41	4847336.46	0.0542	0.0496
Moon	8559-07-21 21:36 G	4847372.36	4847372.40	4847372.45	0.2671	0.2529
Earth	8559-07-21 22:48 G	4847372.39	4847372.45	4847372.52	0.2668	0.2339 *
Jupiter	8559-09-13 10:33 G	4847425.82	4847425.94	4847426.07	0.0543	0.0190
Earth	8563-01-27 23:16 G	4848658.37	4848658.47	4848658.58	0.2667	0.1089
Moon	8563-01-28 00:00 G	4848658.40	4848658.50	4848658.60	0.2665	0.1260 *
Mars	8563-08-29 19:55 G	4848872.22	4848872.33	4848872.45	0.1635	0.1098
Mars	8564-07-10 15:36 G	4849188.05	4849188.15	4849188.25	0.1897	0.1044
Jupiter	8565-07-28 12:14 G	4849570.84	4849571.01	4849571.18	0.0485	0.0080
Saturn	8566-03-12 02:52 G	4849797.53	4849797.62	4849797.71	0.0276	0.0216
Saturn	8566-06-08 16:04 G	4849886.04	4849886.17	4849886.31	0.0276	0.0108
Saturn	8566-09-05 05:16 G	4849974.58	4849974.72	4849974.87	0.0276	0.0004
Saturn	8566-12-02 18:14 G	4850063.13	4850063.26	4850063.39	0.0277	0.0105
Saturn	8567-03-01 06:57 G	4850151.70	4850151.79	4850151.88	0.0277	0.0209
Jupiter	8571-07-02 12:57 G	4851735.91	4851736.04	4851736.18	0.0543	0.0017
Uranus	8571-07-02 13:11 G	4851736.02	4851736.05	4851736.08	0.0134	0.0130 *
Uranus	8571-09-28 16:48 G	4851824.12	4851824.20	4851824.27	0.0134	0.0112
Uranus	8571-12-25 20:09 G	4851912.25	4851912.34	4851912.44	0.0134	0.0095
Uranus	8572-03-22 23:45 G	4852000.38	4852000.49	4852000.60	0.0134	0.0077

Uranus 8572-06-19 03:07 G 4852088.51 4852088.63 4852088.76 0.0134 0.0060

Moon 8572-07-24 01:40 G 4852123.43 4852123.57 4852123.72 0.2673 0.0154

Earth 8572-07-24 02:23 G 4852123.45 4852123.60 4852123.74 0.2667 0.0158 *

Uranus 8572-09-15 06:43 G 4852176.65 4852176.78 4852176.91 0.0134 0.0042

Uranus 8572-12-12 10:04 G 4852264.79 4852264.92 4852265.06 0.0134 0.0025

Mars 8573-01-18 22:48 G 4852302.29 4852302.45 4852302.61 0.1631 0.0343

Uranus 8573-03-10 13:40 G 4852352.93 4852353.07 4852353.21 0.0134 0.0007

Uranus 8573-06-06 17:02 G 4852441.07 4852441.21 4852441.35 0.0134 0.0010

Uranus 8573-09-02 20:23 G 4852529.22 4852529.35 4852529.49 0.0134 0.0028

Uranus 8573-11-29 23:45 G 4852617.36 4852617.49 4852617.62 0.0134 0.0045

Mars 8573-11-30 23:02 G 4852618.35 4852618.46 4852618.58 0.1903 0.0255

Uranus 8574-02-26 03:07 G 4852705.51 4852705.63 4852705.75 0.0134 0.0062

Uranus 8574-05-25 06:28 G 4852793.66 4852793.77 4852793.88 0.0134 0.0079

Uranus 8574-08-21 09:36 G 4852881.82 4852881.90 4852882.01 0.0135 0.0097

Uranus 8574-11-17 12:57 G 4852969.98 4852970.04 4852970.12 0.0135 0.0114

Uranus 8575-02-13 16:19 G 4853058.16 4853058.18 4853058.22 0.0135 0.0130

Earth 8576-01-30 17:45 G 4853409.21 4853409.24 4853409.27 0.2668 0.2531

Moon 8576-01-30 18:14 G 4853409.23 4853409.26 4853409.29 0.2664 0.2561 *

Jupiter 8577-05-16 12:14 G 4853880.84 4853881.01 4853881.17 0.0485 0.0076

Saturn 8580-06-29 08:23 G 4855020.74 4855020.85 4855020.95 0.0284 0.0215

Saturn 8580-09-26 02:38 G 4855109.45 4855109.61 4855109.77 0.0283 0.0085

Saturn 8580-12-23 21:07 G 4855198.22 4855198.38 4855198.55 0.0283 0.0049

Saturn 8581-03-22 16:04 G 4855287.05 4855287.17 4855287.30 0.0283 0.0184

Mars 8582-06-11 02:09 G 4855732.43 4855732.59 4855732.74 0.1627 0.0388

Earth 8583-01-23 15:07 G 4855959.04 4855959.13 4855959.22 0.2664 0.1565

Moon 8583-01-23 15:21 G 4855959.05 4855959.14 4855959.23 0.2670 0.1563 *

Jupiter 8583-04-20 15:36 G 4856046.01 4856046.15 4856046.28 0.0543 0.0153

Mars 8583-04-23 06:28 G 4856048.66 4856048.77 4856048.89 0.1908 0.0564

Jupiter 8583-07-19 03:36 G 4856135.62 4856135.65 4856135.69 0.0543 0.0519

Venus 8587-05-23 22:19 G 4857540.34 4857540.43 4857540.51 0.3682 0.2406

Venus 8588-12-05 00:00 G 4858101.45 4858101.50 4858101.54 0.3689 0.3459

Jupiter 8589-03-04 12:43 G 4858190.89 4858191.03 4858191.18 0.0485 0.0223

Jupiter 8589-06-02 09:36 G 4858280.80 4858280.90 4858281.01 0.0485 0.0384

Mars 8591-11-01 05:31 G 4859162.61 4859162.73 4859162.84 0.1623 0.1098

Mars 8592-09-12 13:40 G 4859478.99 4859479.07 4859479.15 0.1913 0.1406

Venus 8592-12-06 16:04 G 4859564.06 4859564.17 4859564.27 0.3682 0.1052

Venus 8594-06-21 01:11 G 4860125.42 4860125.55 4860125.68 0.3688 0.1214

Mars 8594-08-19 07:55 G 4860184.82 4860184.83 4860184.83 0.1891 0.1882

Jupiter 8595-02-06 18:14 G 4860356.15 4860356.26 4860356.37 0.0543 0.0317

Jupiter 8595-05-07 06:43 G 4860445.68 4860445.78 4860445.88 0.0543 0.0363

Saturn 8595-07-30 04:04 G 4860529.62 4860529.67 4860529.74 0.0275 0.0250

Saturn 8595-10-26 17:31 G 4860618.11 4860618.23 4860618.36 0.0275 0.0142

Saturn 8596-01-23 06:57 G 4860706.64 4860706.79 4860706.93 0.0276 0.0036

Earth 8596-01-26 09:50 G 4860709.79 4860709.91 4860710.02 0.2665 0.0107

Moon 8596-01-26 10:19 G 4860709.82 4860709.93 4860710.05 0.2669 0.0103 *

Saturn 8596-04-20 19:40 G 4860795.19 4860795.32 4860795.46 0.0276 0.0071

Saturn 8596-07-18 08:38 G 4860883.75 4860883.86 4860883.97 0.0276 0.0175

Venus 8598-06-22 09:36 G 4861587.79 4861587.90 4861588.01 0.3683 0.0284

Venus 8600-01-05 02:52 G 4862149.49 4862149.62 4862149.75 0.3687 0.1170

Jupiter 8600-12-22 13:11 G 4862500.95 4862501.05 4862501.16 0.0485 0.0372

Jupiter 8601-03-22 09:36 G 4862590.75 4862590.90 4862591.05 0.0485 0.0228

Mars 8603-02-28 20:38 G 4863299.25 4863299.36 4863299.47 0.1635 0.1195

Venus 8604-01-07 02:52 G 4863611.52 4863611.62 4863611.72 0.3683 0.1542

Mars 8604-01-10 15:36 G 4863615.05 4863615.15 4863615.24 0.1897 0.1112

Moon 8605-07-23 04:04 G 4864174.57 4864174.67 4864174.76 0.2673 0.1992

Earth 8605-07-23 05:02 G 4864174.60 4864174.71 4864174.81 0.2668 0.1848 *

Jupiter 8606-11-26 20:23 G 4864666.30 4864666.35 4864666.42 0.0543 0.0489

Jupiter 8607-02-24 09:36 G 4864755.77 4864755.90 4864756.02 0.0543 0.0199

Earth 8609-01-29 04:19 G 4865460.58 4865460.68 4865460.78 0.2667 0.1394

Moon 8609-01-29 05:02 G 4865460.62 4865460.71 4865460.81 0.2665 0.1432 *

Venus 8609-07-22 20:09 G 4865635.27 4865635.34 4865635.41 0.3684 0.2785

Saturn 8609-11-17 07:40 G 4865752.76 4865752.82 4865752.88 0.0284 0.0260

Saturn 8610-02-14 01:40 G 4865841.43 4865841.57 4865841.72 0.0284 0.0130

Saturn 8610-05-13 20:09 G 4865930.18 4865930.34 4865930.51 0.0283 0.0008

Saturn 8610-08-10 15:07 G 4866018.98 4866019.13 4866019.28 0.0283 0.0137

Saturn 8610-11-07 10:19 G 4866107.89 4866107.93 4866107.97 0.0282 0.0274

Mars 8612-07-20 23:31 G 4866729.32 4866729.48 4866729.63 0.1631 0.0437

Uranus 8612-10-12 18:14 G 4866813.20 4866813.26 4866813.33 0.0144 0.0133

Jupiter 8613-01-08 10:04 G 4866900.75 4866900.92 4866901.09 0.0485 0.0078

Uranus 8613-01-09 01:11 G 4866901.44 4866901.55 4866901.68 0.0144 0.0106

Uranus 8613-04-07 08:09 G 4866989.71 4866989.84 4866990.00 0.0144 0.0080

Mars 8613-06-01 23:16 G 4867045.35 4867045.47 4867045.58 0.1903 0.0332

Uranus 8613-07-04 15:36 G 4867077.98 4867078.15 4867078.32 0.0144 0.0051

Uranus 8613-09-30 22:33 G 4867166.27 4867166.44 4867166.63 0.0144 0.0025

Uranus 8613-12-28 06:00 G 4867254.57 4867254.75 4867254.93 0.0144 0.0004

Uranus 8614-03-26 13:11 G 4867342.88 4867343.05 4867343.23 0.0144 0.0032

Uranus 8614-06-22 20:23 G 4867431.19 4867431.35 4867431.52 0.0144 0.0061

Uranus 8614-09-19 03:36 G 4867519.52 4867519.65 4867519.81 0.0144 0.0089

Uranus 8614-12-16 11:16 G 4867607.87 4867607.97 4867608.08 0.0144 0.0117

Moon 8618-07-26 08:09 G 4868925.69 4868925.84 4868925.98 0.2673 0.0541

Earth 8618-07-26 08:23 G 4868925.71 4868925.85 4868926.00 0.2666 0.0653 *

Jupiter 8618-12-13 11:31 G 4869065.84 4869065.98 4869066.11 0.0543 0.0025

Mars 8621-12-11 02:23 G 4870159.45 4870159.60 4870159.76 0.1627 0.0306

Mars 8622-10-23 06:43 G 4870475.66 4870475.78 4870475.89 0.1908 0.0479

Jupiter 8624-10-27 10:19 G 4871210.77 4871210.93 4871211.10 0.0485 0.0074

Saturn 8624-12-17 06:57 G 4871261.78 4871261.79 4871261.80 0.0276 0.0274

Saturn 8625-03-15 20:23 G 4871350.24 4871350.35 4871350.47 0.0276 0.0165

Saturn 8625-06-12 09:36 G 4871438.76 4871438.90 4871439.05 0.0276 0.0058

Neptune 8625-06-12 18:57 G 4871439.25 4871439.29 4871439.35 0.0089 0.0084

Neptune 8625-09-08 20:52 G 4871527.30 4871527.37 4871527.45 0.0089 0.0076

Saturn 8625-09-08 22:48 G 4871527.31 4871527.45 4871527.59 0.0277 0.0049 *

Neptune 8625-12-05 22:33 G 4871615.35 4871615.44 4871615.54 0.0089 0.0068

Saturn 8625-12-06 11:31 G 4871615.87 4871615.98 4871616.10 0.0277 0.0154

Neptune 8626-03-04 00:28 G 4871703.41 4871703.52 4871703.63 0.0089 0.0061

Saturn 8626-03-05 00:14 G 4871704.46 4871704.51 4871704.56 0.0277 0.0257

Neptune 8626-05-31 01:55 G 4871791.48 4871791.58 4871791.71 0.0089 0.0054

Neptune 8626-08-27 03:50 G 4871879.54 4871879.66 4871879.79 0.0089 0.0046

Neptune 8626-11-23 05:31 G 4871967.61 4871967.73 4871967.87 0.0089 0.0039

Neptune 8627-02-19 07:26 G 4872055.68 4872055.81 4872055.95 0.0089 0.0031

Neptune 8627-05-18 09:07 G 4872143.75 4872143.88 4872144.03 0.0089 0.0023

Neptune 8627-08-14 11:02 G 4872231.82 4872231.96 4872232.10 0.0089 0.0015

Neptune 8627-11-10 12:43 G 4872319.89 4872320.03 4872320.17 0.0089 0.0008

Neptune 8628-02-06 14:23 G 4872407.96 4872408.10 4872408.25 0.0089 0.0001

Neptune 8628-05-04 16:04 G 4872496.03 4872496.17 4872496.32 0.0089 0.0007

Neptune 8628-07-31 17:45 G 4872584.10 4872584.24 4872584.38 0.0089 0.0014

Neptune 8628-10-27 19:26 G 4872672.17 4872672.31 4872672.45 0.0089 0.0022

Neptune 8629-01-23 21:07 G 4872760.25 4872760.38 4872760.52 0.0089 0.0029

Earth 8629-01-24 20:09 G 4872761.24 4872761.34 4872761.44 0.2664 0.1254

Moon 8629-01-24 20:23 G 4872761.25 4872761.35 4872761.45 0.2671 0.1188 *

Neptune 8629-04-21 22:48 G 4872848.32 4872848.45 4872848.58 0.0089 0.0036

Neptune 8629-07-19 00:28 G 4872936.40 4872936.52 4872936.65 0.0089 0.0044

Neptune 8629-10-15 01:55 G 4873024.48 4873024.58 4873024.71 0.0089 0.0051

Neptune 8630-01-11 03:36 G 4873112.55 4873112.65 4873112.77 0.0089 0.0059

Neptune 8630-04-09 05:16 G 4873200.64 4873200.72 4873200.83 0.0089 0.0066

Neptune 8630-07-06 06:57 G 4873288.72 4873288.79 4873288.88 0.0089 0.0073

Jupiter 8630-10-01 13:26 G 4873375.93 4873376.06 4873376.20 0.0543 0.0159

Neptune 8630-10-02 08:38 G 4873376.81 4873376.86 4873376.93 0.0089 0.0080

Neptune 8630-12-29 10:04 G 4873464.91 4873464.92 4873464.97 0.0089 0.0087

Jupiter 8630-12-30 01:40 G 4873465.53 4873465.57 4873465.61 0.0543 0.0512

Mars 8631-05-03 06:00 G 4873589.63 4873589.75 4873589.87 0.1623 0.1011

Mars	8632-03-14 13:40 G	4873905.99	4873906.07	4873906.16	0.1913	0.1325
Jupiter	8636-08-15 10:33 G	4875520.79	4875520.94	4875521.09	0.0485	0.0226
Jupiter	8636-11-13 07:26 G	4875610.71	4875610.81	4875610.91	0.0485	0.0381
Venus	8638-06-15 02:23 G	4876189.56	4876189.60	4876189.64	0.3681	0.3358
Saturn	8639-04-06 10:19 G	4876484.91	4876484.93	4876484.97	0.0284	0.0279
Saturn	8639-07-04 04:33 G	4876573.55	4876573.69	4876573.83	0.0284	0.0150
Saturn	8639-09-30 23:02 G	4876662.29	4876662.46	4876662.62	0.0283	0.0018
Saturn	8639-12-28 17:45 G	4876751.09	4876751.24	4876751.39	0.0283	0.0116
Saturn	8640-03-26 12:43 G	4876839.96	4876840.03	4876840.11	0.0282	0.0252
Earth	8642-01-27 14:38 G	4877512.00	4877512.11	4877512.23	0.2666	0.0245
Moon	8642-01-27 15:21 G	4877512.03	4877512.14	4877512.26	0.2667	0.0311 *
Jupiter	8642-07-20 15:50 G	4877686.05	4877686.16	4877686.27	0.0543	0.0332
Mars	8642-08-29 21:21 G	4877726.29	4877726.39	4877726.49	0.1635	0.1293
Jupiter	8642-10-18 04:33 G	4877775.58	4877775.69	4877775.79	0.0543	0.0350
Mars	8643-07-11 15:36 G	4878042.06	4878042.15	4878042.24	0.1897	0.1194
Venus	8643-12-29 20:23 G	4878213.25	4878213.35	4878213.44	0.3682	0.1975
Venus	8645-07-13 00:00 G	4878774.41	4878774.50	4878774.58	0.3689	0.2785
Jupiter	8648-06-03 11:16 G	4879830.87	4879830.97	4879831.08	0.0485	0.0371
Jupiter	8648-09-01 07:40 G	4879920.67	4879920.82	4879920.97	0.0485	0.0228
Venus	8649-07-14 13:55 G	4880236.97	4880237.08	4880237.19	0.3682	0.0643
Pluto	8649-08-01 04:33 G	4880254.67	4880254.69	4880254.72	0.0071	0.0069
Pluto	8649-10-28 05:16 G	4880342.66	4880342.72	4880342.80	0.0071	0.0060
Pluto	8650-01-24 06:14 G	4880430.67	4880430.76	4880430.85	0.0071	0.0051
Pluto	8650-04-22 06:57 G	4880518.68	4880518.79	4880518.90	0.0071	0.0043
Pluto	8650-07-19 07:40 G	4880606.70	4880606.82	4880606.94	0.0071	0.0034
Pluto	8650-10-15 08:23 G	4880694.72	4880694.85	4880694.98	0.0071	0.0025
Pluto	8651-01-11 09:07 G	4880782.75	4880782.88	4880783.02	0.0072	0.0016
Venus	8651-01-27 01:11 G	4880798.42	4880798.55	4880798.69	0.3688	0.0517
Pluto	8651-04-09 10:04 G	4880870.78	4880870.92	4880871.05	0.0072	0.0006
Pluto	8651-07-06 10:48 G	4880958.81	4880958.95	4880959.09	0.0072	0.0003

Moon	8651-07-24 10:04 G	4880976.80	4880976.92	4880977.04	0.2673	0.1461
Earth	8651-07-24 11:02 G	4880976.84	4880976.96	4880977.09	0.2668	0.1360 *
Pluto	8651-10-02 11:31 G	4881046.85	4881046.98	4881047.12	0.0072	0.0013
Pluto	8651-12-29 12:14 G	4881134.89	4881135.01	4881135.15	0.0072	0.0022
Mars	8652-01-20 00:00 G	4881156.35	4881156.50	4881156.65	0.1631	0.0529
Pluto	8652-03-26 13:11 G	4881222.93	4881223.05	4881223.17	0.0072	0.0031
Pluto	8652-06-22 13:40 G	4881310.97	4881311.07	4881311.20	0.0072	0.0042
Pluto	8652-09-18 14:38 G	4881399.02	4881399.11	4881399.21	0.0072	0.0051
Mars	8652-11-30 23:16 G	4881472.36	4881472.47	4881472.59	0.1903	0.0409
Pluto	8652-12-15 15:21 G	4881487.08	4881487.14	4881487.23	0.0072	0.0061
Pluto	8653-03-13 16:04 G	4881575.16	4881575.17	4881575.22	0.0073	0.0071
Jupiter	8654-05-08 18:28 G	4881996.21	4881996.27	4881996.32	0.0543	0.0498
Saturn	8654-08-02 22:04 G	4882082.32	4882082.42	4882082.52	0.0275	0.0197
Jupiter	8654-08-06 07:26 G	4882085.69	4882085.81	4882085.94	0.0543	0.0191
Saturn	8654-10-30 11:16 G	4882170.84	4882170.97	4882171.11	0.0275	0.0091
Saturn	8655-01-27 00:28 G	4882259.38	4882259.52	4882259.66	0.0276	0.0016
Venus	8655-01-28 07:26 G	4882260.70	4882260.81	4882260.92	0.3683	0.0673
Earth	8655-01-30 09:07 G	4882262.80	4882262.88	4882262.97	0.2667	0.1703
Moon	8655-01-30 09:50 G	4882262.83	4882262.91	4882262.99	0.2665	0.1866 *
Saturn	8655-04-25 13:11 G	4882347.93	4882348.05	4882348.19	0.0276	0.0122
Saturn	8655-07-23 02:09 G	4882436.51	4882436.59	4882436.67	0.0277	0.0224
Uranus	8655-07-23 20:09 G	4882437.30	4882437.34	4882437.39	0.0134	0.0126
Uranus	8655-10-19 23:31 G	4882525.41	4882525.48	4882525.57	0.0134	0.0109
Uranus	8656-01-16 03:07 G	4882613.54	4882613.63	4882613.74	0.0134	0.0091
Uranus	8656-04-13 06:43 G	4882701.67	4882701.78	4882701.90	0.0134	0.0073
Uranus	8656-07-10 10:04 G	4882789.80	4882789.92	4882790.06	0.0134	0.0056
Venus	8656-08-12 03:21 G	4882822.52	4882822.64	4882822.75	0.3687	0.1922
Uranus	8656-10-06 13:40 G	4882877.94	4882878.07	4882878.21	0.0134	0.0038
Uranus	8657-01-02 17:16 G	4882966.08	4882966.22	4882966.36	0.0134	0.0021
Uranus	8657-03-31 20:38 G	4883054.22	4883054.36	4883054.50	0.0134	0.0003

Uranus 8657-06-28 00:00 G 4883142.36 4883142.50 4883142.64 0.0134 0.0014

Uranus 8657-09-24 03:21 G 4883230.51 4883230.64 4883230.78 0.0134 0.0032

Uranus 8657-12-21 06:57 G 4883318.66 4883318.79 4883318.91 0.0134 0.0049

Uranus 8658-03-19 10:04 G 4883406.81 4883406.92 4883407.05 0.0134 0.0066

Uranus 8658-06-15 13:26 G 4883494.96 4883495.06 4883495.17 0.0134 0.0083

Uranus 8658-09-11 16:48 G 4883583.11 4883583.20 4883583.29 0.0135 0.0100

Uranus 8658-12-08 20:09 G 4883671.28 4883671.34 4883671.41 0.0135 0.0117

Uranus 8659-03-06 23:16 G 4883759.47 4883759.47 4883759.49 0.0135 0.0134

Jupiter 8660-06-20 07:40 G 4884230.66 4884230.82 4884230.99 0.0485 0.0076

Venus 8660-08-13 00:43 G 4884284.44 4884284.53 4884284.63 0.3684 0.1939

Mars 8661-06-11 03:07 G 4884586.47 4884586.63 4884586.79 0.1627 0.0208

Moon 8662-01-23 06:14 G 4884812.72 4884812.76 4884812.80 0.2669 0.2497

Earth 8662-01-23 06:14 G 4884812.72 4884812.76 4884812.81 0.2663 0.2443 *

Mars 8662-04-23 06:43 G 4884902.66 4884902.78 4884902.90 0.1908 0.0406

Moon 8664-07-26 14:38 G 4885727.98 4885728.11 4885728.24 0.2672 0.1177

Earth 8664-07-26 14:38 G 4885727.98 4885728.11 4885728.24 0.2666 0.1157 *

Venus 8666-02-26 18:00 G 4886308.19 4886308.25 4886308.30 0.3684 0.3163

Jupiter 8666-05-25 10:19 G 4886395.79 4886395.93 4886396.06 0.0543 0.0030

Saturn 8668-11-20 03:21 G 4887305.53 4887305.64 4887305.76 0.0284 0.0197

Saturn 8669-02-16 21:50 G 4887394.25 4887394.41 4887394.57 0.0284 0.0067

Saturn 8669-05-16 16:19 G 4887483.02 4887483.18 4887483.34 0.0283 0.0067

Saturn 8669-08-13 11:16 G 4887571.86 4887571.97 4887572.09 0.0283 0.0203

Mars 8670-11-01 06:28 G 4888016.64 4888016.77 4888016.90 0.1623 0.0929

Mars 8671-09-13 13:55 G 4888332.99 4888333.08 4888333.17 0.1913 0.1242

Jupiter 8672-04-08 08:23 G 4888540.68 4888540.85 4888541.01 0.0485 0.0074

Earth 8675-01-26 00:57 G 4889563.44 4889563.54 4889563.65 0.2664 0.0939

Moon 8675-01-26 01:26 G 4889563.45 4889563.56 4889563.67 0.2670 0.0888 *

Jupiter 8678-03-13 12:00 G 4890705.87 4890706.00 4890706.14 0.0543 0.0156

Jupiter 8678-06-11 00:14 G 4890795.47 4890795.51 4890795.55 0.0543 0.0515

Mars 8682-02-27 21:50 G 4892153.32 4892153.41 4892153.49 0.1635 0.1379

Mars 8683-01-09 15:50 G 4892469.07 4892469.16 4892469.24 0.1897 0.1276

Saturn 8683-12-21 00:28 G 4892814.44 4892814.52 4892814.61 0.0276 0.0223

Jupiter 8684-01-26 08:38 G 4892850.72 4892850.86 4892851.01 0.0485 0.0225

Saturn 8684-03-18 13:55 G 4892902.95 4892903.08 4892903.21 0.0276 0.0115

Jupiter 8684-04-25 05:31 G 4892940.63 4892940.73 4892940.84 0.0485 0.0384

Saturn 8684-06-15 03:07 G 4892991.49 4892991.63 4892991.78 0.0276 0.0009

Saturn 8684-09-11 16:04 G 4893080.04 4893080.17 4893080.31 0.0277 0.0098

Saturn 8684-12-09 04:48 G 4893168.61 4893168.70 4893168.80 0.0277 0.0201

Earth 8688-01-28 19:40 G 4894314.21 4894314.32 4894314.43 0.2666 0.0547

Moon 8688-01-28 20:23 G 4894314.24 4894314.35 4894314.46 0.2666 0.0687 *

Jupiter 8689-12-30 14:09 G 4895015.98 4895016.09 4895016.20 0.0542 0.0333

Jupiter 8690-03-30 02:38 G 4895105.51 4895105.61 4895105.72 0.0543 0.0347

Mars 8691-07-21 00:43 G 4895583.38 4895583.53 4895583.67 0.1631 0.0624

Mars 8692-05-31 23:31 G 4895899.36 4895899.48 4895899.59 0.1902 0.0494

Venus 8695-01-20 00:28 G 4896862.46 4896862.52 4896862.59 0.3681 0.2919

Jupiter 8695-11-14 09:07 G 4897160.78 4897160.88 4897160.99 0.0485 0.0373

Jupiter 8696-02-12 05:31 G 4897250.58 4897250.73 4897250.88 0.0485 0.0226

Uranus 8696-11-02 00:57 G 4897514.48 4897514.54 4897514.64 0.0144 0.0129

Uranus 8697-01-29 08:09 G 4897602.72 4897602.84 4897602.97 0.0144 0.0101

Uranus 8697-04-27 15:21 G 4897690.99 4897691.14 4897691.29 0.0144 0.0073

Moon 8697-07-24 16:19 G 4897779.04 4897779.18 4897779.31 0.2673 0.1043

Earth 8697-07-24 17:16 G 4897779.08 4897779.22 4897779.35 0.2668 0.0873 *

Uranus 8697-07-24 22:19 G 4897779.27 4897779.43 4897779.61 0.0144 0.0046 *

Uranus 8697-10-21 05:31 G 4897867.56 4897867.73 4897867.91 0.0144 0.0019

Uranus 8698-01-17 12:57 G 4897955.86 4897956.04 4897956.22 0.0144 0.0010

Saturn 8698-04-09 06:14 G 4898037.66 4898037.76 4898037.86 0.0284 0.0218

Uranus 8698-04-15 19:55 G 4898044.16 4898044.33 4898044.51 0.0144 0.0038

Saturn 8698-07-07 00:28 G 4898126.36 4898126.52 4898126.68 0.0284 0.0088

Uranus 8698-07-13 03:07 G 4898132.48 4898132.63 4898132.80 0.0144 0.0066

Saturn 8698-10-03 18:57 G 4898215.13 4898215.29 4898215.46 0.0283 0.0046

Uranus 8698-10-09 10:33 G 4898220.81 4898220.94 4898221.08 0.0144 0.0094

Saturn 8698-12-31 13:55 G 4898303.95 4898304.08 4898304.21 0.0283 0.0181

Uranus 8699-01-05 17:45 G 4898309.16 4898309.24 4898309.35 0.0144 0.0123

Venus 8700-08-05 18:28 G 4898886.17 4898886.27 4898886.37 0.3682 0.1549

Mars 8700-12-11 03:36 G 4899013.49 4899013.65 4899013.81 0.1627 0.0125

Earth 8701-01-31 14:09 G 4899065.02 4899065.09 4899065.16 0.2667 0.2006

Moon 8701-01-31 14:52 G 4899065.04 4899065.12 4899065.19 0.2664 0.2035 *

Jupiter 8701-10-19 16:04 G 4899326.12 4899326.17 4899326.21 0.0543 0.0511

Mars 8701-10-23 06:43 G 4899329.67 4899329.78 4899329.90 0.1908 0.0327

Jupiter 8702-01-17 05:16 G 4899415.59 4899415.72 4899415.84 0.0543 0.0179

Venus 8702-02-18 00:00 G 4899447.39 4899447.50 4899447.61 0.3689 0.2098

Venus 8706-02-19 12:00 G 4900909.89 4900910.00 4900910.11 0.3683 0.0220

Neptune 8707-06-06 14:52 G 4901382.12 4901382.12 4901382.15 0.0088 0.0088

Neptune 8707-09-02 17:45 G 4901470.17 4901470.24 4901470.31 0.0088 0.0079

Venus 8707-09-04 01:26 G 4901471.43 4901471.56 4901471.70 0.3688 0.0231

Neptune 8707-11-29 20:09 G 4901558.25 4901558.34 4901558.45 0.0088 0.0071

Jupiter 8707-12-02 06:00 G 4901560.58 4901560.75 4901560.92 0.0485 0.0077

Moon 8708-01-25 11:16 G 4901614.90 4901614.97 4901615.04 0.2670 0.2080

Earth 8708-01-25 11:16 G 4901614.90 4901614.97 4901615.04 0.2663 0.2125 *

Neptune 8708-02-25 22:48 G 4901646.34 4901646.45 4901646.58 0.0088 0.0063

Neptune 8708-05-24 01:11 G 4901734.43 4901734.55 4901734.70 0.0088 0.0055

Neptune 8708-08-20 04:04 G 4901822.53 4901822.67 4901822.82 0.0088 0.0046

Neptune 8708-11-16 06:43 G 4901910.63 4901910.78 4901910.94 0.0088 0.0038

Neptune 8709-02-12 09:21 G 4901998.73 4901998.89 4901999.06 0.0088 0.0030

Neptune 8709-05-11 12:00 G 4902086.84 4902087.00 4902087.18 0.0088 0.0021

Neptune 8709-08-07 14:38 G 4902174.95 4902175.11 4902175.29 0.0088 0.0013

Neptune 8709-11-03 17:31 G 4902263.06 4902263.23 4902263.40 0.0088 0.0004

Neptune 8710-01-30 20:09 G 4902351.17 4902351.34 4902351.52 0.0088 0.0005

Neptune 8710-04-28 22:48 G 4902439.28 4902439.45 4902439.63 0.0088 0.0013

Mars 8710-05-03 06:57 G 4902443.66 4902443.79 4902443.93 0.1623 0.0836

Neptune 8710-07-26 01:26 G 4902527.40 4902527.56 4902527.74 0.0088 0.0022

Earth 8710-07-28 20:52 G 4902530.25 4902530.37 4902530.48 0.2666 0.1660

Moon 8710-07-28 20:52 G 4902530.26 4902530.37 4902530.49 0.2673 0.1701 *

Neptune 8710-10-22 04:19 G 4902615.52 4902615.68 4902615.85 0.0088 0.0030

Neptune 8711-01-18 06:57 G 4902703.64 4902703.79 4902703.95 0.0088 0.0039

Mars 8711-03-15 13:55 G 4902759.99 4902760.08 4902760.18 0.1913 0.1161

Neptune 8711-04-16 09:36 G 4902791.77 4902791.90 4902792.06 0.0088 0.0048

Neptune 8711-07-13 12:28 G 4902879.89 4902880.02 4902880.16 0.0088 0.0056

Venus 8711-09-05 05:31 G 4902933.62 4902933.73 4902933.83 0.3683 0.1075

Neptune 8711-10-09 15:07 G 4902968.03 4902968.13 4902968.26 0.0088 0.0065

Neptune 8712-01-05 17:45 G 4903056.17 4903056.24 4903056.35 0.0088 0.0074

Neptune 8712-04-02 20:38 G 4903144.32 4903144.36 4903144.43 0.0088 0.0083

Venus 8713-03-20 03:36 G 4903495.56 4903495.65 4903495.75 0.3687 0.2680

Saturn 8713-05-10 02:09 G 4903546.55 4903546.59 4903546.65 0.0275 0.0255

Saturn 8713-08-06 15:36 G 4903635.03 4903635.15 4903635.28 0.0275 0.0147

Saturn 8713-11-03 05:02 G 4903723.56 4903723.71 4903723.85 0.0275 0.0041

Jupiter 8713-11-05 08:09 G 4903725.70 4903725.84 4903725.97 0.0543 0.0018

Saturn 8714-01-30 17:45 G 4903812.11 4903812.24 4903812.39 0.0276 0.0066

Saturn 8714-04-29 06:28 G 4903900.67 4903900.77 4903900.89 0.0276 0.0170

Saturn 8714-07-26 19:11 G 4903989.28 4903989.30 4903989.33 0.0277 0.0271

Venus 8717-03-20 22:48 G 4904957.36 4904957.45 4904957.53 0.3684 0.2326

Jupiter 8719-09-20 06:14 G 4905870.59 4905870.76 4905870.93 0.0485 0.0075

Mars 8719-09-23 10:48 G 4905873.90 4905873.95 4905874.00 0.1619 0.1529

Earth 8721-01-27 06:00 G 4906365.64 4906365.75 4906365.86 0.2664 0.0620

Moon 8721-01-27 06:28 G 4906365.66 4906365.77 4906365.88 0.2669 0.0573 *

Mars 8721-08-29 22:33 G 4906580.37 4906580.44 4906580.50 0.1636 0.1483

Mars 8722-07-11 15:50 G 4906896.08 4906896.16 4906896.24 0.1897 0.1349

Venus 8722-10-04 15:50 G 4906981.13 4906981.16 4906981.18 0.3685 0.3535

Jupiter 8725-08-24 10:48 G 4908035.82 4908035.95 4908036.08 0.0543 0.0148

Jupiter 8725-11-21 23:02 G 4908125.43 4908125.46 4908125.49 0.0543 0.0524

Saturn 8727-08-28 05:02 G 4908769.65 4908769.71 4908769.76 0.0284 0.0265

Saturn 8727-11-24 23:02 G 4908858.32 4908858.46 4908858.61 0.0284 0.0136

Saturn 8728-02-21 17:31 G 4908947.06 4908947.23 4908947.40 0.0283 0.0004

Saturn 8728-05-20 12:14 G 4909035.86 4909036.01 4909036.16 0.0283 0.0130

Saturn 8728-08-17 07:11 G 4909124.76 4909124.80 4909124.87 0.0283 0.0267

Mars 8731-01-20 01:11 G 4910010.40 4910010.55 4910010.69 0.1631 0.0712

Jupiter 8731-07-09 06:57 G 4910180.64 4910180.79 4910180.94 0.0485 0.0222

Jupiter 8731-10-07 03:36 G 4910270.55 4910270.65 4910270.76 0.0485 0.0385

Mars 8731-12-01 23:31 G 4910326.36 4910326.48 4910326.59 0.1903 0.0569

Earth 8734-01-30 00:43 G 4911116.42 4911116.53 4911116.63 0.2666 0.0865

Moon 8734-01-30 01:26 G 4911116.45 4911116.56 4911116.67 0.2667 0.0953 *

Pluto 8735-03-25 03:50 G 4911535.63 4911535.66 4911535.70 0.0073 0.0071

Pluto 8735-06-21 05:45 G 4911623.65 4911623.74 4911623.87 0.0073 0.0058

Pluto 8735-09-17 07:55 G 4911711.70 4911711.83 4911712.00 0.0073 0.0045

Pluto 8735-12-14 10:04 G 4911799.77 4911799.92 4911800.11 0.0073 0.0032

Pluto 8736-03-11 12:28 G 4911887.85 4911888.02 4911888.21 0.0072 0.0018

Pluto 8736-06-07 14:38 G 4911975.93 4911976.11 4911976.30 0.0072 0.0005

Pluto 8736-09-03 16:48 G 4912064.02 4912064.20 4912064.39 0.0072 0.0008

Pluto 8736-11-30 18:43 G 4912152.11 4912152.28 4912152.47 0.0072 0.0021

Pluto 8737-02-26 20:52 G 4912240.21 4912240.37 4912240.54 0.0072 0.0033

Pluto 8737-05-25 22:48 G 4912328.32 4912328.45 4912328.60 0.0072 0.0046

Jupiter 8737-06-12 12:43 G 4912345.92 4912346.03 4912346.14 0.0542 0.0327

Pluto 8737-08-22 00:28 G 4912416.44 4912416.52 4912416.65 0.0072 0.0059

Jupiter 8737-09-10 01:26 G 4912435.46 4912435.56 4912435.66 0.0543 0.0352

Pluto 8737-11-18 02:38 G 4912504.60 4912504.61 4912504.66 0.0072 0.0071

Uranus 8739-08-14 02:52 G 4913138.58 4913138.62 4913138.68 0.0134 0.0123

Uranus 8739-11-10 06:43 G 4913226.69 4913226.78 4913226.86 0.0134 0.0105

Uranus 8740-02-06 10:04 G 4913314.82 4913314.92 4913315.03 0.0134 0.0088

Uranus 8740-05-04 13:40 G 4913402.95 4913403.07 4913403.19 0.0134 0.0070

Mars 8740-06-11 04:04 G 4913440.51 4913440.67 4913440.83 0.1627 0.0044

Uranus	8740-07-31 17:02 G	4913491.09	4913491.21	4913491.34	0.0134	0.0053
Uranus	8740-10-27 20:38 G	4913579.23	4913579.36	4913579.50	0.0134	0.0035
Uranus	8741-01-24 00:00 G	4913667.37	4913667.50	4913667.64	0.0134	0.0018
Uranus	8741-04-22 03:36 G	4913755.51	4913755.65	4913755.79	0.0134	0.0002
Mars	8741-04-23 06:57 G	4913756.68	4913756.79	4913756.91	0.1908	0.0240
Uranus	8741-07-19 06:57 G	4913843.65	4913843.79	4913843.93	0.0134	0.0017
Uranus	8741-10-15 10:19 G	4913931.80	4913931.93	4913932.07	0.0134	0.0035
Uranus	8742-01-11 13:40 G	4914019.95	4914020.07	4914020.20	0.0134	0.0052
Uranus	8742-04-09 17:02 G	4914108.10	4914108.21	4914108.33	0.0134	0.0069
Uranus	8742-07-06 20:23 G	4914196.25	4914196.35	4914196.46	0.0135	0.0086
Uranus	8742-10-02 23:45 G	4914284.40	4914284.49	4914284.58	0.0135	0.0103
Saturn	8742-12-24 17:45 G	4914367.13	4914367.24	4914367.35	0.0276	0.0175
Uranus	8742-12-30 03:07 G	4914372.57	4914372.63	4914372.69	0.0135	0.0120
Saturn	8743-03-23 07:11 G	4914455.66	4914455.80	4914455.94	0.0276	0.0068
Jupiter	8743-04-27 07:26 G	4914490.71	4914490.81	4914490.92	0.0485	0.0370
Saturn	8743-06-19 20:09 G	4914544.20	4914544.34	4914544.48	0.0276	0.0038
Jupiter	8743-07-26 03:50 G	4914580.51	4914580.66	4914580.81	0.0485	0.0230
Moon	8743-07-26 22:33 G	4914581.30	4914581.44	4914581.58	0.2673	0.0412
Earth	8743-07-26 23:16 G	4914581.33	4914581.47	4914581.62	0.2667	0.0373 *
Saturn	8743-09-16 09:07 G	4914632.76	4914632.88	4914633.00	0.0277	0.0143
Saturn	8743-12-13 21:36 G	4914721.34	4914721.40	4914721.47	0.0277	0.0246
Earth	8747-02-01 18:57 G	4915867.24	4915867.29	4915867.35	0.2667	0.2312
Moon	8747-02-01 19:40 G	4915867.27	4915867.32	4915867.36	0.2662	0.2412 *
Jupiter	8749-03-31 14:38 G	4916656.06	4916656.11	4916656.16	0.0542	0.0507
Jupiter	8749-06-29 03:36 G	4916745.53	4916745.65	4916745.78	0.0543	0.0182
Mars	8749-11-01 07:40 G	4916870.68	4916870.82	4916870.96	0.1623	0.0745
Mars	8750-09-13 13:55 G	4917186.99	4917187.08	4917187.18	0.1913	0.1084
Venus	8751-08-27 22:48 G	4917535.36	4917535.45	4917535.53	0.3682	0.2486
Venus	8753-03-10 23:02 G	4918096.44	4918096.46	4918096.48	0.3689	0.3625
Earth	8754-01-25 16:19 G	4918417.09	4918417.18	4918417.26	0.2663	0.1805

Moon	8754-01-25 16:19 G	4918417.10	4918417.18	4918417.26	0.2670	0.1863	*
Jupiter	8755-05-14 03:50 G	4918890.50	4918890.66	4918890.83	0.0485	0.0077	
Earth	8756-07-29 02:52 G	4919332.54	4919332.62	4919332.71	0.2666	0.2173	
Moon	8756-07-29 03:21 G	4919332.56	4919332.64	4919332.72	0.2673	0.2196	*
Venus	8757-03-12 16:33 G	4919559.08	4919559.19	4919559.29	0.3682	0.1132	
Saturn	8757-04-13 01:26 G	4919590.43	4919590.56	4919590.70	0.0284	0.0160	
Saturn	8757-07-10 19:55 G	4919679.16	4919679.33	4919679.49	0.0283	0.0028	
Saturn	8757-10-07 14:38 G	4919767.95	4919768.11	4919768.27	0.0283	0.0106	
Saturn	8758-01-04 09:36 G	4919856.82	4919856.90	4919856.99	0.0283	0.0242	
Venus	8758-09-25 00:00 G	4920120.38	4920120.50	4920120.63	0.3688	0.1411	
Mars	8759-03-24 11:16 G	4920300.90	4920300.97	4920301.04	0.1619	0.1444	
Mars	8761-02-27 23:02 G	4921007.42	4921007.46	4921007.50	0.1636	0.1576	
Jupiter	8761-04-17 06:00 G	4921055.61	4921055.75	4921055.88	0.0543	0.0013	
Mars	8762-01-09 15:50 G	4921323.08	4921323.16	4921323.24	0.1897	0.1425	
Venus	8762-09-26 10:04 G	4921582.81	4921582.92	4921583.03	0.3683	0.0208	
Venus	8764-04-10 01:40 G	4922144.44	4922144.57	4922144.70	0.3688	0.0937	
Earth	8767-01-28 11:02 G	4923167.84	4923167.96	4923168.07	0.2665	0.0317	
Moon	8767-01-28 11:31 G	4923167.87	4923167.98	4923168.10	0.2668	0.0186	*
Jupiter	8767-03-02 04:33 G	4923200.53	4923200.69	4923200.86	0.0485	0.0070	
Venus	8768-04-11 03:21 G	4923606.54	4923606.64	4923606.74	0.3684	0.1470	
Venus	8769-10-25 04:04 G	4924168.62	4924168.67	4924168.72	0.3687	0.3448	
Mars	8770-07-21 01:40 G	4924437.43	4924437.57	4924437.71	0.1631	0.0810	
Mars	8771-06-01 23:31 G	4924753.37	4924753.48	4924753.59	0.1902	0.0651	
Saturn	8772-05-12 19:40 G	4925099.23	4925099.32	4925099.42	0.0275	0.0205	
Saturn	8772-08-09 09:07 G	4925187.74	4925187.88	4925188.02	0.0275	0.0098	
Saturn	8772-11-05 22:19 G	4925276.28	4925276.43	4925276.57	0.0275	0.0011	
Saturn	8773-02-02 11:02 G	4925364.83	4925364.96	4925365.09	0.0276	0.0112	
Jupiter	8773-02-03 08:38 G	4925365.73	4925365.86	4925366.00	0.0543	0.0157	
Saturn	8773-05-01 23:45 G	4925453.40	4925453.49	4925453.58	0.0276	0.0215	
Jupiter	8773-05-03 21:07 G	4925455.34	4925455.38	4925455.42	0.0544	0.0518	

Venus	8773-10-25 20:38 G	4925630.28	4925630.36	4925630.43	0.3684	0.2702
Moon	8776-07-24 00:43 G	4926632.47	4926632.53	4926632.59	0.2673	0.2420
Earth	8776-07-24 02:09 G	4926632.52	4926632.59	4926632.65	0.2669	0.2350 *
Jupiter	8778-12-19 05:02 G	4927510.56	4927510.71	4927510.86	0.0485	0.0220
Jupiter	8779-03-19 01:40 G	4927600.47	4927600.57	4927600.67	0.0485	0.0386
Mars	8779-12-11 04:48 G	4927867.54	4927867.70	4927867.86	0.1627	0.0066
Earth	8780-01-31 05:31 G	4927918.63	4927918.73	4927918.83	0.2666	0.1168
Moon	8780-01-31 06:14 G	4927918.66	4927918.76	4927918.86	0.2666	0.1276 *
Mars	8780-10-22 06:57 G	4928183.67	4928183.79	4928183.91	0.1908	0.0167
Uranus	8780-11-23 07:55 G	4928215.75	4928215.83	4928215.92	0.0144	0.0124
Uranus	8781-02-19 14:52 G	4928304.00	4928304.12	4928304.26	0.0144	0.0097
Uranus	8781-05-18 21:50 G	4928392.26	4928392.41	4928392.57	0.0144	0.0070
Uranus	8781-08-15 05:02 G	4928480.54	4928480.71	4928480.89	0.0144	0.0042
Uranus	8781-11-11 12:14 G	4928568.83	4928569.01	4928569.19	0.0144	0.0014
Uranus	8782-02-07 19:26 G	4928657.13	4928657.31	4928657.49	0.0144	0.0014
Uranus	8782-05-07 02:38 G	4928745.44	4928745.61	4928745.79	0.0144	0.0042
Uranus	8782-08-03 09:50 G	4928833.76	4928833.91	4928834.07	0.0144	0.0070
Uranus	8782-10-30 17:16 G	4928922.09	4928922.22	4928922.35	0.0144	0.0098
Uranus	8783-01-27 00:28 G	4929010.45	4929010.52	4929010.62	0.0144	0.0127
Jupiter	8784-11-22 11:16 G	4929675.87	4929675.97	4929676.09	0.0543	0.0322
Jupiter	8785-02-20 00:14 G	4929765.41	4929765.51	4929765.61	0.0543	0.0360
Saturn	8786-08-30 23:45 G	4930322.39	4930322.49	4930322.60	0.0284	0.0210
Saturn	8786-11-27 18:00 G	4930411.10	4930411.25	4930411.41	0.0284	0.0080
Saturn	8787-02-24 12:43 G	4930499.86	4930500.03	4930500.19	0.0283	0.0054
Saturn	8787-05-24 07:26 G	4930588.69	4930588.81	4930588.94	0.0283	0.0189
Mars	8789-05-02 07:55 G	4931297.69	4931297.83	4931297.98	0.1623	0.0665
Moon	8789-07-27 05:02 G	4931383.56	4931383.71	4931383.85	0.2673	0.0056
Earth	8789-07-27 05:16 G	4931383.58	4931383.72	4931383.87	0.2667	0.0151 *
Neptune	8789-12-12 16:48 G	4931522.19	4931522.20	4931522.25	0.0089	0.0088
Neptune	8790-03-10 18:43 G	4931610.23	4931610.28	4931610.36	0.0089	0.0080

Mars 8790-03-14 14:09 G 4931613.99 4931614.09 4931614.19 0.1913 0.0994

Neptune 8790-06-06 20:52 G 4931698.28 4931698.37 4931698.45 0.0089 0.0072

Neptune 8790-09-02 22:19 G 4931786.34 4931786.43 4931786.54 0.0089 0.0065

Jupiter 8790-10-07 05:45 G 4931820.64 4931820.74 4931820.85 0.0485 0.0365

Neptune 8790-11-30 00:14 G 4931874.40 4931874.51 4931874.63 0.0089 0.0057

Jupiter 8791-01-05 01:55 G 4931910.44 4931910.58 4931910.74 0.0485 0.0235

Neptune 8791-02-26 01:55 G 4931962.47 4931962.58 4931962.71 0.0089 0.0049

Neptune 8791-05-25 03:50 G 4932050.53 4932050.66 4932050.79 0.0089 0.0042

Neptune 8791-08-21 05:31 G 4932138.60 4932138.73 4932138.87 0.0089 0.0034

Neptune 8791-11-17 07:11 G 4932226.67 4932226.80 4932226.95 0.0089 0.0027

Neptune 8792-02-13 09:07 G 4932314.74 4932314.88 4932315.02 0.0089 0.0019

Neptune 8792-05-11 10:48 G 4932402.81 4932402.95 4932403.10 0.0089 0.0012

Neptune 8792-08-07 12:28 G 4932490.88 4932491.02 4932491.17 0.0089 0.0005

Neptune 8792-11-03 14:09 G 4932578.95 4932579.09 4932579.24 0.0089 0.0004

Neptune 8793-01-30 15:50 G 4932667.02 4932667.16 4932667.31 0.0089 0.0011

Earth 8793-02-02 00:00 G 4932669.48 4932669.50 4932669.52 0.2668 0.2615

Moon 8793-02-02 00:28 G 4932669.51 4932669.52 4932669.53 0.2662 0.2646 *

Neptune 8793-04-28 17:31 G 4932755.10 4932755.23 4932755.38 0.0089 0.0019

Neptune 8793-07-25 19:11 G 4932843.17 4932843.30 4932843.44 0.0089 0.0026

Neptune 8793-10-21 21:07 G 4932931.24 4932931.38 4932931.51 0.0089 0.0033

Neptune 8794-01-17 22:33 G 4933019.32 4933019.44 4933019.57 0.0089 0.0040

Neptune 8794-04-16 00:14 G 4933107.40 4933107.51 4933107.64 0.0089 0.0048

Neptune 8794-07-13 01:55 G 4933195.47 4933195.58 4933195.70 0.0089 0.0055

Neptune 8794-10-09 03:21 G 4933283.55 4933283.64 4933283.76 0.0089 0.0063

Neptune 8795-01-05 05:02 G 4933371.64 4933371.71 4933371.81 0.0089 0.0070

Neptune 8795-04-03 06:43 G 4933459.72 4933459.78 4933459.86 0.0089 0.0077

Neptune 8795-06-30 08:23 G 4933547.81 4933547.85 4933547.91 0.0089 0.0084

Jupiter 8796-09-10 13:26 G 4933986.01 4933986.06 4933986.11 0.0542 0.0499

Jupiter 8796-12-09 02:23 G 4934075.48 4934075.60 4934075.73 0.0543 0.0190

Mars 8798-09-22 11:45 G 4934727.91 4934727.99 4934728.07 0.1620 0.1359

Mars	8799-08-04 21:07 G	4935044.35	4935044.38	4935044.41	0.1918	0.1855
Moon	8800-01-26 21:21 G	4935219.29	4935219.39	4935219.49	0.2670	0.1411
Earth	8800-01-26 21:07 G	4935219.29	4935219.38	4935219.48	0.2663	0.1493 *
Mars	8801-07-10 16:04 G	4935750.10	4935750.17	4935750.24	0.1897	0.1513
Saturn	8801-09-29 21:21 G	4935831.32	4935831.39	4935831.46	0.0275	0.0237
Saturn	8801-12-27 10:48 G	4935919.82	4935919.95	4935920.08	0.0276	0.0130
Saturn	8802-03-26 00:00 G	4936008.36	4936008.50	4936008.64	0.0276	0.0023
Saturn	8802-06-22 12:57 G	4936096.90	4936097.04	4936097.18	0.0276	0.0082
Venus	8802-09-18 02:52 G	4936184.58	4936184.62	4936184.65	0.3681	0.3442
Saturn	8802-09-19 01:40 G	4936185.47	4936185.57	4936185.68	0.0277	0.0186
Jupiter	8802-10-24 02:23 G	4936220.43	4936220.60	4936220.76	0.0485	0.0082
Venus	8808-04-02 20:38 G	4938208.27	4938208.36	4938208.46	0.3682	0.2058
Jupiter	8808-09-27 04:48 G	4938385.56	4938385.70	4938385.84	0.0543	0.0016
Venus	8809-10-15 23:02 G	4938769.38	4938769.46	4938769.53	0.3689	0.2963
Mars	8810-01-19 02:23 G	4938864.46	4938864.60	4938864.73	0.1632	0.0902
Mars	8810-11-30 23:31 G	4939180.38	4939180.48	4939180.59	0.1902	0.0727
Earth	8813-01-28 15:50 G	4939970.05	4939970.16	4939970.28	0.2665	0.0087
Moon	8813-01-28 16:33 G	4939970.08	4939970.19	4939970.31	0.2668	0.0106 *
Venus	8813-10-17 14:23 G	4940231.99	4940232.10	4940232.21	0.3683	0.0717
Jupiter	8814-08-12 02:38 G	4940530.45	4940530.61	4940530.78	0.0485	0.0069
Venus	8815-05-02 00:00 G	4940793.37	4940793.50	4940793.64	0.3688	0.0731
Saturn	8816-01-18 01:55 G	4941054.49	4941054.58	4941054.67	0.0284	0.0236
Saturn	8816-04-15 20:09 G	4941143.19	4941143.34	4941143.49	0.0284	0.0106
Saturn	8816-07-13 14:38 G	4941231.95	4941232.11	4941232.28	0.0283	0.0027
Saturn	8816-10-10 09:21 G	4941320.76	4941320.89	4941321.04	0.0283	0.0162
Venus	8819-05-03 07:55 G	4942255.72	4942255.83	4942255.94	0.3683	0.0598
Mars	8819-06-11 05:31 G	4942294.57	4942294.73	4942294.88	0.1627	0.0163
Mars	8820-04-22 07:11 G	4942610.68	4942610.80	4942610.92	0.1908	0.0083
Jupiter	8820-07-16 06:43 G	4942695.65	4942695.78	4942695.91	0.0543	0.0163
Jupiter	8820-10-13 19:11 G	4942785.25	4942785.30	4942785.34	0.0543	0.0512

Venus 8820-11-15 01:55 G 4942817.46 4942817.58 4942817.71 0.3687 0.1680

Moon 8822-07-25 06:57 G 4943434.70 4943434.79 4943434.88 0.2672 0.2114

Earth 8822-07-25 08:09 G 4943434.74 4943434.84 4943434.94 0.2669 0.1866 *

Uranus 8823-09-03 09:50 G 4943839.86 4943839.91 4943839.98 0.0134 0.0120

Uranus 8823-11-30 13:26 G 4943927.98 4943928.06 4943928.16 0.0134 0.0102

Uranus 8824-02-26 17:02 G 4944016.10 4944016.21 4944016.32 0.0134 0.0084

Uranus 8824-05-24 20:23 G 4944104.24 4944104.35 4944104.48 0.0134 0.0067

Uranus 8824-08-21 00:00 G 4944192.37 4944192.50 4944192.64 0.0134 0.0049

Venus 8824-11-16 01:11 G 4944279.46 4944279.55 4944279.65 0.3684 0.1856

Uranus 8824-11-17 03:36 G 4944280.51 4944280.65 4944280.79 0.0134 0.0032

Uranus 8825-02-13 06:57 G 4944368.65 4944368.79 4944368.93 0.0134 0.0015

Uranus 8825-05-12 10:33 G 4944456.80 4944456.94 4944457.08 0.0134 0.0004

Uranus 8825-08-08 13:55 G 4944544.94 4944545.08 4944545.22 0.0134 0.0020

Uranus 8825-11-04 17:16 G 4944633.09 4944633.22 4944633.35 0.0134 0.0038

Earth 8826-01-31 10:33 G 4944720.84 4944720.94 4944721.03 0.2666 0.1478

Moon 8826-01-31 11:16 G 4944720.88 4944720.97 4944721.06 0.2664 0.1602 *

Uranus 8826-01-31 20:38 G 4944721.24 4944721.36 4944721.49 0.0134 0.0055

Uranus 8826-04-29 23:45 G 4944809.39 4944809.49 4944809.62 0.0135 0.0073

Jupiter 8826-05-31 03:36 G 4944840.50 4944840.65 4944840.80 0.0485 0.0212

Uranus 8826-07-27 03:07 G 4944897.54 4944897.63 4944897.74 0.0135 0.0090

Jupiter 8826-08-29 00:14 G 4944930.41 4944930.51 4944930.61 0.0485 0.0393

Uranus 8826-10-23 06:43 G 4944985.70 4944985.78 4944985.86 0.0135 0.0106

Uranus 8827-01-19 10:04 G 4945073.87 4945073.92 4945073.97 0.0135 0.0123

Mars 8828-10-31 08:38 G 4945724.71 4945724.86 4945725.01 0.1623 0.0569

Mars 8829-09-12 14:09 G 4946040.99 4946041.09 4946041.20 0.1913 0.0920

Venus 8830-06-01 18:28 G 4946303.21 4946303.27 4946303.33 0.3684 0.3080

Saturn 8831-02-16 23:16 G 4946563.45 4946563.47 4946563.51 0.0274 0.0267

Saturn 8831-05-16 12:57 G 4946651.92 4946652.04 4946652.16 0.0275 0.0159

Saturn 8831-08-13 02:09 G 4946740.45 4946740.59 4946740.73 0.0275 0.0053

Saturn 8831-11-09 15:07 G 4946828.99 4946829.13 4946829.27 0.0275 0.0052

Saturn 8832-02-06 03:50 G 4946917.55 4946917.66 4946917.78 0.0276 0.0156

Jupiter 8832-05-04 09:21 G 4947005.78 4947005.89 4947006.00 0.0543 0.0328

Saturn 8832-05-04 16:33 G 4947006.14 4947006.19 4947006.24 0.0276 0.0257

Jupiter 8832-08-01 22:04 G 4947095.33 4947095.42 4947095.53 0.0544 0.0356

Moon 8835-07-28 11:16 G 4948185.83 4948185.97 4948186.11 0.2674 0.0693

Earth 8835-07-28 11:31 G 4948185.84 4948185.98 4948186.12 0.2667 0.0621 *

Jupiter 8838-03-19 04:04 G 4949150.57 4949150.67 4949150.79 0.0485 0.0360

Mars 8838-03-23 12:14 G 4949154.92 4949155.01 4949155.11 0.1619 0.1272

Jupiter 8838-06-17 00:14 G 4949240.37 4949240.51 4949240.66 0.0485 0.0239

Mars 8839-02-02 21:07 G 4949471.34 4949471.38 4949471.42 0.1918 0.1781

Mars 8841-01-08 15:50 G 4950177.10 4950177.16 4950177.23 0.1897 0.1582

Jupiter 8844-02-21 12:00 G 4951315.95 4951316.00 4951316.06 0.0543 0.0494

Jupiter 8844-05-21 01:11 G 4951405.43 4951405.55 4951405.68 0.0543 0.0197

Saturn 8845-09-02 18:14 G 4951875.12 4951875.26 4951875.40 0.0284 0.0158

Saturn 8845-11-30 12:28 G 4951963.86 4951964.02 4951964.19 0.0284 0.0027

Earth 8846-01-27 02:09 G 4952021.49 4952021.59 4952021.69 0.2663 0.1170

Moon 8846-01-27 02:38 G 4952021.50 4952021.61 4952021.71 0.2669 0.1183 *

Saturn 8846-02-27 07:11 G 4952052.65 4952052.80 4952052.96 0.0283 0.0107

Saturn 8846-05-27 02:23 G 4952141.52 4952141.60 4952141.68 0.0283 0.0243

Mars 8849-07-20 02:52 G 4953291.50 4953291.62 4953291.75 0.1631 0.0995

Jupiter 8850-04-05 00:43 G 4953550.37 4953550.53 4953550.70 0.0485 0.0090

Mars 8850-05-31 23:45 G 4953607.38 4953607.49 4953607.60 0.1903 0.0808

Jupiter 8856-03-09 03:36 G 4955715.52 4955715.65 4955715.79 0.0543 0.0029

Mars 8858-12-10 05:45 G 4956721.58 4956721.74 4956721.90 0.1627 0.0243

Earth 8859-01-29 20:52 G 4956772.26 4956772.37 4956772.48 0.2665 0.0319

Moon 8859-01-29 21:36 G 4956772.29 4956772.40 4956772.51 0.2668 0.0482 *

Venus 8859-04-25 00:57 G 4956857.48 4956857.54 4956857.60 0.3682 0.3001

Mars 8859-10-22 07:11 G 4957037.68 4957037.80 4957037.92 0.1908 0.0054

Saturn 8860-10-02 13:55 G 4957383.99 4957384.08 4957384.19 0.0275 0.0195

Saturn 8860-12-30 03:21 G 4957472.51 4957472.64 4957472.78 0.0276 0.0087

Saturn 8861-03-28 16:33 G 4957561.05 4957561.19 4957561.33 0.0276 0.0019

Saturn 8861-06-25 05:31 G 4957649.60 4957649.73 4957649.85 0.0276 0.0124

Saturn 8861-09-21 18:00 G 4957738.18 4957738.25 4957738.33 0.0277 0.0226

Jupiter 8862-01-22 01:11 G 4957860.39 4957860.55 4957860.72 0.0485 0.0062

Venus 8864-11-07 18:43 G 4958881.18 4958881.28 4958881.38 0.3682 0.1637

Uranus 8864-12-13 14:23 G 4958917.02 4958917.10 4958917.22 0.0144 0.0120

Uranus 8865-03-11 21:36 G 4959005.27 4959005.40 4959005.54 0.0144 0.0092

Uranus 8865-06-08 04:48 G 4959093.54 4959093.70 4959093.86 0.0144 0.0065

Uranus 8865-09-04 11:45 G 4959181.82 4959181.99 4959182.17 0.0144 0.0037

Uranus 8865-12-01 18:57 G 4959270.11 4959270.29 4959270.47 0.0144 0.0010

Uranus 8866-02-28 02:09 G 4959358.41 4959358.59 4959358.77 0.0144 0.0018

Venus 8866-05-22 22:48 G 4959442.35 4959442.45 4959442.56 0.3688 0.2300

Uranus 8866-05-27 09:21 G 4959446.72 4959446.89 4959447.06 0.0144 0.0046

Uranus 8866-08-23 16:48 G 4959535.04 4959535.20 4959535.35 0.0144 0.0074

Uranus 8866-11-19 23:45 G 4959623.37 4959623.49 4959623.63 0.0144 0.0103

Uranus 8867-02-16 07:11 G 4959711.73 4959711.80 4959711.88 0.0144 0.0131

Jupiter 8867-12-27 05:45 G 4960025.61 4960025.74 4960025.88 0.0543 0.0149

Jupiter 8868-03-25 18:14 G 4960115.22 4960115.26 4960115.29 0.0543 0.0523

Mars 8868-05-01 09:07 G 4960151.73 4960151.88 4960152.04 0.1623 0.0481

Moon 8868-07-25 13:11 G 4960236.93 4960237.05 4960237.17 0.2673 0.1442

Earth 8868-07-25 14:09 G 4960236.97 4960237.09 4960237.22 0.2669 0.1378 *

Mars 8869-03-13 14:23 G 4960467.99 4960468.10 4960468.21 0.1913 0.0835

Venus 8870-05-24 12:28 G 4960904.91 4960905.02 4960905.13 0.3683 0.0305

Venus 8871-12-07 00:14 G 4961466.37 4961466.51 4961466.65 0.3688 0.0040

Earth 8872-02-01 15:21 G 4961523.06 4961523.14 4961523.23 0.2666 0.1786

Moon 8872-02-01 16:04 G 4961523.09 4961523.17 4961523.25 0.2663 0.1825 *

Neptune 8872-03-02 14:23 G 4961553.05 4961553.10 4961553.16 0.0088 0.0083

Neptune 8872-05-29 16:48 G 4961641.13 4961641.20 4961641.30 0.0088 0.0075

Neptune 8872-08-25 19:26 G 4961729.21 4961729.31 4961729.43 0.0088 0.0067

Neptune 8872-11-21 21:50 G 4961817.30 4961817.41 4961817.56 0.0088 0.0059

Neptune 8873-02-18 00:43 G 4961905.40 4961905.53 4961905.68 0.0088 0.0050

Neptune 8873-05-17 03:21 G 4961993.50 4961993.64 4961993.80 0.0088 0.0042

Neptune 8873-08-13 06:00 G 4962081.60 4962081.75 4962081.92 0.0088 0.0034

Neptune 8873-11-09 08:38 G 4962169.70 4962169.86 4962170.03 0.0088 0.0025

Jupiter 8873-11-10 01:55 G 4962170.43 4962170.58 4962170.73 0.0485 0.0207

Neptune 8874-02-05 11:16 G 4962257.81 4962257.97 4962258.15 0.0088 0.0017

Jupiter 8874-02-07 22:33 G 4962260.35 4962260.44 4962260.54 0.0485 0.0399

Neptune 8874-05-04 14:09 G 4962345.92 4962346.09 4962346.26 0.0088 0.0008

Neptune 8874-07-31 16:48 G 4962434.03 4962434.20 4962434.37 0.0088 0.0001

Neptune 8874-10-27 19:26 G 4962522.14 4962522.31 4962522.49 0.0088 0.0009

Saturn 8875-01-20 19:40 G 4962607.20 4962607.32 4962607.45 0.0284 0.0188

Neptune 8875-01-23 22:04 G 4962610.25 4962610.42 4962610.60 0.0088 0.0018

Saturn 8875-04-19 14:09 G 4962695.93 4962696.09 4962696.25 0.0284 0.0057

Neptune 8875-04-22 00:57 G 4962698.37 4962698.54 4962698.71 0.0088 0.0026

Saturn 8875-07-17 08:38 G 4962784.70 4962784.86 4962785.03 0.0283 0.0077

Neptune 8875-07-19 03:21 G 4962786.49 4962786.64 4962786.81 0.0088 0.0035

Saturn 8875-10-14 03:50 G 4962873.55 4962873.66 4962873.77 0.0283 0.0212

Neptune 8875-10-15 06:28 G 4962874.62 4962874.77 4962874.92 0.0088 0.0043

Venus 8875-12-08 06:00 G 4962928.64 4962928.75 4962928.85 0.3683 0.0994

Neptune 8876-01-11 08:52 G 4962962.74 4962962.87 4962963.02 0.0088 0.0052

Neptune 8876-04-08 11:31 G 4963050.87 4963050.98 4963051.12 0.0088 0.0061

Neptune 8876-07-05 14:09 G 4963139.01 4963139.09 4963139.22 0.0088 0.0070

Neptune 8876-10-01 17:16 G 4963227.15 4963227.22 4963227.31 0.0088 0.0078

Neptune 8876-12-28 19:55 G 4963315.32 4963315.33 4963315.37 0.0088 0.0087

Venus 8877-06-22 02:23 G 4963490.49 4963490.60 4963490.70 0.3687 0.2424

Mars 8877-09-21 12:57 G 4963581.93 4963582.04 4963582.14 0.1620 0.1181

Mars 8878-08-03 21:21 G 4963898.34 4963898.39 4963898.44 0.1918 0.1689

Moon 8879-01-25 12:14 G 4964072.96 4964073.01 4964073.05 0.2669 0.2446

Earth 8879-01-25 12:14 G 4964072.96 4964073.01 4964073.07 0.2662 0.2370 *

Jupiter 8879-10-15 07:26 G 4964335.70 4964335.81 4964335.92 0.0543 0.0332

Jupiter	8880-01-12 20:23 G	4964425.25	4964425.35	4964425.45	0.0544	0.0351
Mars	8880-07-09 16:04 G	4964604.12	4964604.17	4964604.22	0.1897	0.1663
Venus	8881-06-22 23:16 G	4964952.38	4964952.47	4964952.55	0.3684	0.2243
Moon	8881-07-28 17:31 G	4964988.10	4964988.23	4964988.37	0.2674	0.1013
Earth	8881-07-28 17:45 G	4964988.10	4964988.24	4964988.37	0.2667	0.1122 *
Jupiter	8885-08-29 03:07 G	4966480.51	4966480.63	4966480.74	0.0485	0.0348
Jupiter	8885-11-26 23:02 G	4966570.32	4966570.46	4966570.61	0.0485	0.0250
Venus	8887-01-06 16:19 G	4966976.15	4966976.18	4966976.21	0.3685	0.3455
Mars	8889-01-18 03:36 G	4967718.53	4967718.65	4967718.77	0.1632	0.1090
Mars	8889-11-29 23:45 G	4968034.39	4968034.49	4968034.60	0.1902	0.0886
Saturn	8890-02-19 16:19 G	4968116.10	4968116.18	4968116.27	0.0274	0.0222
Saturn	8890-05-19 05:31 G	4968204.60	4968204.73	4968204.87	0.0275	0.0116
Saturn	8890-08-15 18:43 G	4968293.14	4968293.28	4968293.43	0.0275	0.0011
Saturn	8890-11-12 07:40 G	4968381.69	4968381.82	4968381.96	0.0275	0.0094
Saturn	8891-02-08 20:23 G	4968470.25	4968470.35	4968470.45	0.0276	0.0197
Jupiter	8891-08-03 10:04 G	4968645.87	4968645.92	4968645.97	0.0543	0.0500
Jupiter	8891-10-31 23:16 G	4968735.35	4968735.47	4968735.60	0.0544	0.0193
Earth	8892-01-28 07:11 G	4968823.69	4968823.80	4968823.91	0.2664	0.0856
Moon	8892-01-28 07:40 G	4968823.71	4968823.82	4968823.93	0.2669	0.0736 *
Pluto	8897-06-01 14:09 G	4970775.05	4970775.09	4970775.15	0.0071	0.0066
Pluto	8897-08-28 14:52 G	4970863.05	4970863.12	4970863.21	0.0071	0.0057
Jupiter	8897-09-14 23:16 G	4970880.31	4970880.47	4970880.64	0.0485	0.0097
Pluto	8897-11-24 15:36 G	4970951.06	4970951.15	4970951.26	0.0071	0.0048
Pluto	8898-02-20 16:19 G	4971039.08	4971039.18	4971039.30	0.0071	0.0040
Pluto	8898-05-19 17:16 G	4971127.10	4971127.22	4971127.35	0.0071	0.0030
Mars	8898-06-10 06:28 G	4971148.62	4971148.77	4971148.93	0.1627	0.0340
Pluto	8898-08-15 18:00 G	4971215.13	4971215.25	4971215.39	0.0071	0.0021
Pluto	8898-11-11 18:57 G	4971303.15	4971303.29	4971303.42	0.0072	0.0012
Pluto	8899-02-07 19:40 G	4971391.18	4971391.32	4971391.46	0.0072	0.0003
Mars	8899-04-22 07:11 G	4971464.68	4971464.80	4971464.92	0.1908	0.0087

Pluto	8899-05-06 20:23 G	4971479.22	4971479.35	4971479.49	0.0072	0.0007	
Pluto	8899-08-02 21:21 G	4971567.25	4971567.39	4971567.52	0.0072	0.0016	
Pluto	8899-10-29 21:50 G	4971655.29	4971655.41	4971655.55	0.0072	0.0026	
Pluto	8900-01-25 22:48 G	4971743.33	4971743.45	4971743.57	0.0072	0.0035	
Pluto	8900-04-23 23:16 G	4971831.38	4971831.47	4971831.59	0.0072	0.0046	
Pluto	8900-07-21 00:14 G	4971919.43	4971919.51	4971919.61	0.0072	0.0055	
Pluto	8900-10-17 00:57 G	4972007.50	4972007.54	4972007.62	0.0073	0.0065	
Jupiter	8903-08-21 02:23 G	4973045.46	4973045.60	4973045.74	0.0544	0.0033	
Saturn	8904-06-09 17:45 G	4973339.16	4973339.24	4973339.33	0.0285	0.0240	
Saturn	8904-09-06 12:00 G	4973427.85	4973428.00	4973428.15	0.0284	0.0110	
Saturn	8904-12-04 06:28 G	4973516.60	4973516.77	4973516.94	0.0284	0.0022	
Earth	8905-01-31 01:55 G	4973574.47	4973574.58	4973574.69	0.2665	0.0637	
Moon	8905-01-31 02:38 G	4973574.50	4973574.61	4973574.72	0.2667	0.0673	*
Saturn	8905-03-03 01:11 G	4973605.42	4973605.55	4973605.69	0.0283	0.0157	
Uranus	8907-09-24 16:33 G	4974541.14	4974541.19	4974541.27	0.0134	0.0117	
Mars	8907-11-01 09:36 G	4974578.75	4974578.90	4974579.06	0.1623	0.0396	
Uranus	8907-12-21 20:23 G	4974629.26	4974629.35	4974629.44	0.0134	0.0099	
Uranus	8908-03-19 00:00 G	4974717.39	4974717.50	4974717.61	0.0134	0.0082	
Uranus	8908-06-15 03:21 G	4974805.52	4974805.64	4974805.77	0.0134	0.0064	
Uranus	8908-09-11 06:57 G	4974893.66	4974893.79	4974893.92	0.0134	0.0046	
Mars	8908-09-12 14:38 G	4974895.00	4974895.11	4974895.22	0.1913	0.0751	
Uranus	8908-12-08 10:19 G	4974981.80	4974981.93	4974982.07	0.0134	0.0029	
Uranus	8909-03-06 13:55 G	4975069.94	4975070.08	4975070.22	0.0134	0.0012	
Uranus	8909-06-02 17:16 G	4975158.08	4975158.22	4975158.36	0.0134	0.0006	
Jupiter	8909-07-05 00:00 G	4975190.33	4975190.50	4975190.67	0.0485	0.0051	
Uranus	8909-08-29 20:38 G	4975246.23	4975246.36	4975246.50	0.0134	0.0024	
Uranus	8909-11-26 00:00 G	4975334.37	4975334.50	4975334.64	0.0134	0.0041	
Uranus	8910-02-22 03:36 G	4975422.52	4975422.65	4975422.77	0.0135	0.0058	
Uranus	8910-05-21 06:57 G	4975510.67	4975510.79	4975510.90	0.0135	0.0075	
Uranus	8910-08-17 10:19 G	4975598.83	4975598.93	4975599.03	0.0135	0.0092	

Uranus	8910-11-13 13:40 G	4975686.99	4975687.07	4975687.15	0.0135	0.0109
Uranus	8911-02-09 16:48 G	4975775.16	4975775.20	4975775.25	0.0135	0.0126
Moon	8914-07-27 19:40 G	4977039.19	4977039.32	4977039.45	0.2674	0.1011
Earth	8914-07-27 20:23 G	4977039.21	4977039.35	4977039.49	0.2668	0.0876 *
Jupiter	8915-06-09 04:48 G	4977355.57	4977355.70	4977355.83	0.0543	0.0137
Jupiter	8915-09-06 17:02 G	4977445.20	4977445.21	4977445.23	0.0543	0.0535
Venus	8915-11-30 23:02 G	4977530.38	4977530.46	4977530.54	0.3682	0.2573
Mars	8917-03-23 13:26 G	4978008.94	4978009.06	4978009.17	0.1620	0.1097
Earth	8918-02-02 20:23 G	4978325.28	4978325.35	4978325.42	0.2666	0.2090
Moon	8918-02-02 20:52 G	4978325.32	4978325.37	4978325.44	0.2662	0.2239 *
Mars	8918-02-02 21:21 G	4978325.33	4978325.39	4978325.46	0.1917	0.1610 *
Saturn	8919-07-10 17:02 G	4978848.17	4978848.21	4978848.26	0.0275	0.0260
Saturn	8919-10-07 06:28 G	4978936.65	4978936.77	4978936.89	0.0275	0.0153
Saturn	8920-01-03 19:40 G	4979025.18	4979025.32	4979025.47	0.0275	0.0047
Mars	8920-01-09 16:19 G	4979031.13	4979031.18	4979031.22	0.1896	0.1746
Saturn	8920-04-01 08:52 G	4979113.73	4979113.87	4979114.01	0.0276	0.0059
Saturn	8920-06-28 21:36 G	4979202.29	4979202.40	4979202.51	0.0276	0.0162
Saturn	8920-09-25 10:04 G	4979290.89	4979290.92	4979290.96	0.0277	0.0264
Jupiter	8921-04-23 00:28 G	4979500.37	4979500.52	4979500.68	0.0485	0.0200
Venus	8921-06-15 16:48 G	4979554.10	4979554.20	4979554.31	0.3682	0.1217
Jupiter	8921-07-21 21:07 G	4979590.30	4979590.38	4979590.48	0.0485	0.0408
Venus	8922-12-28 23:02 G	4980115.33	4980115.46	4980115.58	0.3688	0.1620
Moon	8925-01-26 17:16 G	4980875.15	4980875.22	4980875.29	0.2669	0.2050
Earth	8925-01-26 17:16 G	4980875.15	4980875.22	4980875.30	0.2662	0.2051 *
Venus	8926-12-30 10:33 G	4981577.82	4981577.94	4981578.05	0.3683	0.0180
Jupiter	8927-03-28 06:57 G	4981665.68	4981665.79	4981665.90	0.0543	0.0313
Jupiter	8927-06-25 19:40 G	4981755.22	4981755.32	4981755.42	0.0543	0.0368
Moon	8927-07-30 23:45 G	4981790.38	4981790.49	4981790.60	0.2674	0.1721
Earth	8927-07-31 00:00 G	4981790.38	4981790.50	4981790.61	0.2667	0.1634 *
Venus	8928-07-14 00:28 G	4982139.39	4982139.52	4982139.66	0.3687	0.0713

Mars 8928-07-20 04:04 G 4982145.56 4982145.67 4982145.78 0.1632 0.1186

Mars 8929-06-01 00:00 G 4982461.39 4982461.50 4982461.60 0.1902 0.0968

Venus 8932-07-15 03:50 G 4983601.56 4983601.66 4983601.76 0.3683 0.1386

Jupiter 8933-02-09 01:26 G 4983810.45 4983810.56 4983810.68 0.0485 0.0342

Jupiter 8933-05-09 21:36 G 4983900.26 4983900.40 4983900.54 0.0485 0.0257

Saturn 8933-10-27 18:57 G 4984071.25 4984071.29 4984071.34 0.0285 0.0273

Saturn 8934-01-24 12:57 G 4984159.90 4984160.04 4984160.19 0.0284 0.0144

Venus 8934-01-28 02:38 G 4984163.55 4984163.61 4984163.68 0.3686 0.3184

Saturn 8934-04-23 07:26 G 4984248.65 4984248.81 4984248.98 0.0284 0.0012

Saturn 8934-07-21 02:09 G 4984337.44 4984337.59 4984337.74 0.0283 0.0123

Saturn 8934-10-17 21:07 G 4984426.32 4984426.38 4984426.46 0.0283 0.0259

Mars 8937-12-10 06:57 G 4985575.64 4985575.79 4985575.95 0.1627 0.0434

Venus 8938-01-28 21:07 G 4985625.30 4985625.38 4985625.45 0.3684 0.2625

Earth 8938-01-29 12:14 G 4985625.89 4985626.01 4985626.12 0.2664 0.0546

Moon 8938-01-29 12:43 G 4985625.92 4985626.03 4985626.14 0.2669 0.0511 *

Mars 8938-10-22 07:26 G 4985891.69 4985891.81 4985891.93 0.1908 0.0164

Jupiter 8939-01-14 08:23 G 4985975.80 4985975.85 4985975.90 0.0543 0.0501

Jupiter 8939-04-13 21:36 G 4986065.28 4986065.40 4986065.53 0.0544 0.0191

Jupiter 8944-11-28 02:38 G 4988120.60 4988120.61 4988120.64 0.0485 0.0480

Jupiter 8945-02-25 22:19 G 4988210.27 4988210.43 4988210.60 0.0485 0.0111

Mars 8947-05-02 10:19 G 4989005.78 4989005.93 4989006.09 0.1623 0.0298

Mars 8948-03-13 14:38 G 4989322.00 4989322.11 4989322.22 0.1913 0.0670

Uranus 8948-10-07 14:38 G 4989530.08 4989530.11 4989530.15 0.0144 0.0141

Uranus 8949-01-03 21:36 G 4989618.30 4989618.40 4989618.51 0.0144 0.0114

Saturn 8949-02-23 08:52 G 4989668.76 4989668.87 4989668.98 0.0274 0.0180

Uranus 8949-04-02 04:19 G 4989706.55 4989706.68 4989706.83 0.0144 0.0087

Saturn 8949-05-22 22:04 G 4989757.28 4989757.42 4989757.56 0.0275 0.0074

Uranus 8949-06-29 11:31 G 4989794.82 4989794.98 4989795.15 0.0144 0.0060

Saturn 8949-08-19 11:16 G 4989845.83 4989845.97 4989846.11 0.0275 0.0031

Uranus 8949-09-25 18:43 G 4989883.11 4989883.28 4989883.45 0.0144 0.0032

Saturn 8949-11-16 00:00 G 4989934.38 4989934.50 4989934.63 0.0275 0.0135

Uranus 8949-12-23 01:40 G 4989971.40 4989971.57 4989971.75 0.0144 0.0007

Saturn 8950-02-12 12:43 G 4990022.96 4990023.03 4990023.10 0.0276 0.0236

Uranus 8950-03-21 08:52 G 4990059.70 4990059.87 4990060.05 0.0144 0.0023

Uranus 8950-06-17 16:04 G 4990148.01 4990148.17 4990148.34 0.0144 0.0051

Uranus 8950-09-13 23:16 G 4990236.33 4990236.47 4990236.63 0.0144 0.0079

Uranus 8950-12-11 06:43 G 4990324.66 4990324.78 4990324.90 0.0144 0.0107

Jupiter 8951-01-31 00:28 G 4990375.39 4990375.52 4990375.66 0.0544 0.0030

Earth 8951-02-01 06:43 G 4990376.68 4990376.78 4990376.89 0.2665 0.0943

Moon 8951-02-01 07:26 G 4990376.71 4990376.81 4990376.92 0.2665 0.1107 *

Uranus 8951-03-09 13:40 G 4990413.03 4990413.07 4990413.15 0.0144 0.0136

Neptune 8954-09-09 17:02 G 4991693.16 4991693.21 4991693.27 0.0089 0.0083

Neptune 8954-12-06 18:43 G 4991781.21 4991781.28 4991781.37 0.0089 0.0075

Neptune 8955-03-04 20:38 G 4991869.27 4991869.36 4991869.46 0.0089 0.0068

Neptune 8955-05-31 22:19 G 4991957.33 4991957.43 4991957.55 0.0089 0.0060

Neptune 8955-08-28 00:14 G 4992045.40 4992045.51 4992045.63 0.0089 0.0052

Neptune 8955-11-24 02:09 G 4992133.46 4992133.59 4992133.71 0.0089 0.0045

Neptune 8956-02-20 03:36 G 4992221.53 4992221.65 4992221.79 0.0089 0.0038

Neptune 8956-05-18 05:31 G 4992309.60 4992309.73 4992309.87 0.0089 0.0030

Neptune 8956-08-14 07:11 G 4992397.67 4992397.80 4992397.95 0.0089 0.0023

Mars 8956-09-21 13:55 G 4992435.96 4992436.08 4992436.20 0.1620 0.1006

Neptune 8956-11-10 09:07 G 4992485.74 4992485.88 4992486.02 0.0089 0.0015

Jupiter 8956-12-14 22:48 G 4992520.28 4992520.45 4992520.61 0.0485 0.0041

Neptune 8957-02-06 10:48 G 4992573.81 4992573.95 4992574.09 0.0089 0.0007

Neptune 8957-05-05 12:28 G 4992661.88 4992662.02 4992662.17 0.0089 0.0002

Neptune 8957-08-01 14:09 G 4992749.95 4992750.09 4992750.24 0.0089 0.0008

Mars 8957-08-03 21:36 G 4992752.33 4992752.40 4992752.47 0.1918 0.1529

Neptune 8957-10-28 15:50 G 4992838.02 4992838.16 4992838.31 0.0089 0.0015

Neptune 8958-01-24 17:31 G 4992926.10 4992926.23 4992926.37 0.0089 0.0023

Neptune 8958-04-22 19:26 G 4993014.17 4993014.31 4993014.44 0.0089 0.0030

Neptune 8958-07-19 20:52 G 4993102.25 4993102.37 4993102.51 0.0089 0.0037

Neptune 8958-10-15 22:33 G 4993190.32 4993190.44 4993190.57 0.0089 0.0045

Neptune 8959-01-12 00:14 G 4993278.40 4993278.51 4993278.63 0.0089 0.0052

Neptune 8959-04-10 02:09 G 4993366.48 4993366.59 4993366.69 0.0089 0.0059

Neptune 8959-07-07 03:21 G 4993454.56 4993454.64 4993454.75 0.0089 0.0067

Mars 8959-07-10 16:19 G 4993458.15 4993458.18 4993458.21 0.1896 0.1819

Neptune 8959-10-03 05:02 G 4993542.64 4993542.71 4993542.80 0.0089 0.0074

Neptune 8959-12-30 06:43 G 4993630.73 4993630.78 4993630.85 0.0089 0.0081

Neptune 8960-03-27 08:23 G 4993718.84 4993718.85 4993718.89 0.0089 0.0088

Moon 8960-07-28 01:55 G 4993841.44 4993841.58 4993841.72 0.2675 0.0459

Earth 8960-07-28 02:23 G 4993841.46 4993841.60 4993841.75 0.2668 0.0394 *

Jupiter 8962-11-19 03:36 G 4994685.51 4994685.65 4994685.78 0.0544 0.0133

Jupiter 8963-02-16 15:50 G 4994775.16 4994775.16 4994775.17 0.0544 0.0543

Saturn 8963-06-13 11:02 G 4994891.84 4994891.96 4994892.08 0.0285 0.0196

Saturn 8963-09-10 05:16 G 4994980.56 4994980.72 4994980.88 0.0284 0.0065

Saturn 8963-12-07 23:45 G 4995069.33 4995069.49 4995069.66 0.0284 0.0068

Earth 8964-02-04 01:11 G 4995127.51 4995127.55 4995127.60 0.2667 0.2396

Moon 8964-02-04 01:55 G 4995127.53 4995127.58 4995127.62 0.2663 0.2415 *

Saturn 8964-03-05 18:43 G 4995158.17 4995158.28 4995158.40 0.0283 0.0203

Venus 8966-12-22 03:07 G 4996179.60 4996179.63 4996179.66 0.3681 0.3531

Mars 8968-01-19 04:33 G 4996572.59 4996572.69 4996572.79 0.1632 0.1276

Jupiter 8968-10-02 23:31 G 4996830.33 4996830.48 4996830.63 0.0485 0.0186

Mars 8968-11-30 00:00 G 4996888.40 4996888.50 4996888.60 0.1902 0.1044

Jupiter 8968-12-31 20:09 G 4996920.26 4996920.34 4996920.42 0.0485 0.0419

Earth 8971-01-27 22:19 G 4997677.34 4997677.43 4997677.52 0.2662 0.1733

Moon 8971-01-27 22:33 G 4997677.35 4997677.44 4997677.52 0.2669 0.1709 *

Venus 8972-07-06 21:07 G 4998203.29 4998203.38 4998203.47 0.3682 0.2142

Earth 8973-07-31 06:00 G 4998592.67 4998592.75 4998592.84 0.2667 0.2144

Moon 8973-07-31 06:14 G 4998592.68 4998592.76 4998592.85 0.2673 0.2123 *

Venus 8974-01-18 21:50 G 4998764.35 4998764.41 4998764.48 0.3688 0.3148

Jupiter	8974-09-07 06:00 G	4998995.63	4998995.75	4998995.86	0.0543	0.0301
Jupiter	8974-12-05 18:43 G	4999085.19	4999085.28	4999085.38	0.0543	0.0381
Mars	8977-06-10 07:40 G	5000002.66	5000002.82	5000002.97	0.1628	0.0523
Venus	8978-01-20 14:52 G	5000227.01	5000227.12	5000227.23	0.3683	0.0797
Mars	8978-04-22 07:40 G	5000318.70	5000318.82	5000318.93	0.1907	0.0255
Saturn	8978-07-13 09:21 G	5000400.81	5000400.89	5000400.98	0.0275	0.0220
Saturn	8978-10-09 22:48 G	5000489.32	5000489.45	5000489.58	0.0275	0.0113
Saturn	8979-01-06 12:00 G	5000577.85	5000578.00	5000578.14	0.0275	0.0007
Saturn	8979-04-05 00:57 G	5000666.40	5000666.54	5000666.67	0.0276	0.0097
Saturn	8979-07-02 13:40 G	5000754.97	5000755.07	5000755.16	0.0276	0.0199
Venus	8979-08-04 23:02 G	5000788.33	5000788.46	5000788.59	0.3688	0.0919
Jupiter	8980-07-22 00:14 G	5001140.39	5001140.51	5001140.63	0.0485	0.0333
Jupiter	8980-10-19 20:09 G	5001230.21	5001230.34	5001230.49	0.0485	0.0267
Pluto	8983-01-23 12:28 G	5002055.95	5002056.02	5002056.12	0.0073	0.0065
Pluto	8983-04-21 14:38 G	5002143.99	5002144.11	5002144.26	0.0073	0.0052
Pluto	8983-07-18 16:48 G	5002232.06	5002232.20	5002232.37	0.0073	0.0039
Venus	8983-08-06 08:23 G	5002250.74	5002250.85	5002250.96	0.3683	0.0518
Pluto	8983-10-14 19:11 G	5002320.13	5002320.30	5002320.48	0.0073	0.0025
Pluto	8984-01-10 21:21 G	5002408.21	5002408.39	5002408.58	0.0072	0.0012
Earth	8984-01-30 17:02 G	5002428.10	5002428.21	5002428.33	0.2664	0.0239
Moon	8984-01-30 17:45 G	5002428.12	5002428.24	5002428.35	0.2669	0.0143 *
Pluto	8984-04-07 23:31 G	5002496.30	5002496.48	5002496.67	0.0072	0.0002
Pluto	8984-07-05 01:40 G	5002584.39	5002584.57	5002584.75	0.0072	0.0014
Pluto	8984-10-01 03:36 G	5002672.48	5002672.65	5002672.83	0.0072	0.0027
Pluto	8984-12-28 05:31 G	5002760.59	5002760.73	5002760.90	0.0072	0.0040
Venus	8985-02-18 00:43 G	5002812.41	5002812.53	5002812.66	0.3687	0.1454
Pluto	8985-03-26 07:55 G	5002848.70	5002848.83	5002848.96	0.0072	0.0052
Pluto	8985-06-22 09:36 G	5002936.84	5002936.90	5002936.99	0.0072	0.0065
Jupiter	8986-06-26 07:55 G	5003305.77	5003305.83	5003305.90	0.0543	0.0478
Jupiter	8986-09-23 21:07 G	5003395.26	5003395.38	5003395.51	0.0543	0.0212

Mars 8986-10-31 10:48 G 5003432.80 5003432.95 5003433.11 0.1624 0.0212

Mars 8987-09-12 14:38 G 5003749.00 5003749.11 5003749.22 0.1913 0.0589

Venus 8989-02-19 01:55 G 5004274.48 5004274.58 5004274.67 0.3684 0.1784

Uranus 8991-07-18 20:09 G 5005154.32 5005154.34 5005154.37 0.0134 0.0131

Uranus 8991-10-14 23:31 G 5005242.42 5005242.48 5005242.56 0.0134 0.0114

Uranus 8992-01-11 03:07 G 5005330.54 5005330.63 5005330.74 0.0134 0.0096

Uranus 8992-04-08 06:43 G 5005418.67 5005418.78 5005418.90 0.0134 0.0078

Jupiter 8992-05-10 01:11 G 5005450.52 5005450.55 5005450.59 0.0485 0.0472

Uranus 8992-07-05 10:19 G 5005506.81 5005506.93 5005507.06 0.0134 0.0061

Jupiter 8992-08-07 20:52 G 5005540.21 5005540.37 5005540.54 0.0485 0.0119

Uranus 8992-10-01 13:40 G 5005594.94 5005595.07 5005595.21 0.0134 0.0043

Saturn 8992-10-30 11:31 G 5005623.89 5005623.98 5005624.08 0.0285 0.0233

Uranus 8992-12-28 17:16 G 5005683.08 5005683.22 5005683.36 0.0134 0.0026

Saturn 8993-01-27 05:45 G 5005712.59 5005712.74 5005712.89 0.0284 0.0103

Uranus 8993-03-26 20:38 G 5005771.23 5005771.36 5005771.50 0.0134 0.0009

Saturn 8993-04-26 00:14 G 5005801.35 5005801.51 5005801.68 0.0284 0.0030

Uranus 8993-06-23 00:14 G 5005859.37 5005859.51 5005859.65 0.0134 0.0009

Saturn 8993-07-23 19:11 G 5005890.16 5005890.30 5005890.43 0.0283 0.0165

Moon 8993-07-26 04:19 G 5005892.64 5005892.68 5005892.71 0.2673 0.2567

Earth 8993-07-26 05:16 G 5005892.66 5005892.72 5005892.79 0.2670 0.2354 *

Uranus 8993-09-19 03:36 G 5005947.51 5005947.65 5005947.79 0.0134 0.0027

Uranus 8993-12-16 06:57 G 5006035.66 5006035.79 5006035.92 0.0134 0.0044

Uranus 8994-03-14 10:19 G 5006123.81 5006123.93 5006124.06 0.0135 0.0061

Uranus 8994-06-10 13:40 G 5006211.96 5006212.07 5006212.19 0.0135 0.0078

Venus 8994-09-04 18:57 G 5006298.23 5006298.29 5006298.35 0.3684 0.3008

Uranus 8994-09-06 17:02 G 5006300.12 5006300.21 5006300.31 0.0135 0.0095

Uranus 8994-12-03 20:23 G 5006388.28 5006388.35 5006388.43 0.0135 0.0112

Uranus 8995-03-01 23:31 G 5006476.46 5006476.48 5006476.53 0.0135 0.0130

Mars 8996-03-22 14:23 G 5006862.97 5006863.10 5006863.23 0.1620 0.0919

Earth 8997-02-01 11:45 G 5007178.89 5007178.99 5007179.09 0.2665 0.1252

Moon	**8997-02-01 12:28 G**	**5007178.92**	**5007179.02**	**5007179.12**	**0.2664**	**0.1307**	*
Mars	**8997-02-01 21:36 G**	**5007179.33**	**5007179.40**	**5007179.48**	**0.1917**	**0.1444**	
Jupiter	**8998-07-12 22:48 G**	**5007705.32**	**5007705.45**	**5007705.59**	**0.0544**	**0.0035**	
Mars	**8999-01-08 16:19 G**	**5007885.18**	**5007885.18**	**5007885.18**	**0.1896**	**0.1896**	

10TH MILLENNIUM CE

This is a list of transits of Mercury in the 10th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**9004-05-27 21:50 G**	**5009850.24**	**5009850.41**	**5009850.58**	**0.0485**	**0.0025**	
Mars	**9005-08-13 18:28 G**	**5010293.25**	**5010293.27**	**5010293.29**	**0.1616**	**0.1601**	
Moon	**9006-07-30 07:55 G**	**5010643.69**	**5010643.83**	**5010643.98**	**0.2675**	**0.0089**	
Earth	**9006-07-30 08:38 G**	**5010643.71**	**5010643.86**	**5010644.01**	**0.2668**	**0.0109**	*
Mars	**9007-07-21 05:16 G**	**5010999.64**	**5010999.72**	**5010999.81**	**0.1632**	**0.1378**	
Saturn	**9007-12-01 12:00 G**	**5011132.93**	**5011133.00**	**5011133.06**	**0.0274**	**0.0245**	
Saturn	**9008-02-28 01:11 G**	**5011221.43**	**5011221.55**	**5011221.68**	**0.0274**	**0.0139**	
Saturn	**9008-05-26 14:23 G**	**5011309.96**	**5011310.10**	**5011310.25**	**0.0275**	**0.0034**	
Mars	**9008-06-01 00:00 G**	**5011315.41**	**5011315.50**	**5011315.60**	**0.1902**	**0.1130**	
Saturn	**9008-08-23 03:21 G**	**5011398.51**	**5011398.64**	**5011398.78**	**0.0275**	**0.0071**	
Saturn	**9008-11-19 16:04 G**	**5011487.07**	**5011487.17**	**5011487.28**	**0.0275**	**0.0173**	
Saturn	**9009-02-16 04:33 G**	**5011575.69**	**5011575.69**	**5011575.71**	**0.0276**	**0.0274**	
Jupiter	**9010-05-02 01:40 G**	**5012015.43**	**5012015.57**	**5012015.70**	**0.0544**	**0.0136**	
Jupiter	**9010-07-30 14:09 G**	**5012105.08**	**5012105.09**	**5012105.10**	**0.0544**	**0.0540**	
Jupiter	**9016-03-15 22:19 G**	**5014160.28**	**5014160.43**	**5014160.59**	**0.0485**	**0.0175**	

Jupiter 9016-06-13 18:57 G 5014250.21 5014250.29 5014250.36 0.0484 0.0430

Mars 9016-12-10 08:09 G 5014429.69 5014429.84 5014429.99 0.1628 0.0619

Earth 9017-01-29 03:21 G 5014479.54 5014479.64 5014479.74 0.2663 0.1409

Moon 9017-01-29 03:36 G 5014479.55 5014479.65 5014479.75 0.2669 0.1409 *

Mars 9017-10-22 07:26 G 5014745.70 5014745.81 5014745.93 0.1908 0.0324

Earth 9019-08-02 12:14 G 5015395.00 5015395.01 5015395.02 0.2666 0.2647

Jupiter 9022-02-18 04:33 G 5016325.57 5016325.69 5016325.80 0.0544 0.0297

Saturn 9022-03-20 10:04 G 5016355.90 5016355.92 5016355.94 0.0285 0.0282

Jupiter 9022-05-18 17:16 G 5016415.13 5016415.22 5016415.32 0.0544 0.0387

Saturn 9022-06-17 03:50 G 5016444.53 5016444.66 5016444.80 0.0284 0.0154

Saturn 9022-09-13 22:19 G 5016533.26 5016533.43 5016533.59 0.0284 0.0023

Saturn 9022-12-11 17:02 G 5016622.05 5016622.21 5016622.36 0.0284 0.0111

Saturn 9023-03-10 12:00 G 5016710.92 5016711.00 5016711.08 0.0283 0.0247

Venus 9023-07-30 01:11 G 5016852.50 5016852.55 5016852.61 0.3682 0.3092

Mars 9026-05-02 11:16 G 5017859.81 5017859.97 5017860.13 0.1624 0.0125

Mars 9027-03-14 14:52 G 5018176.00 5018176.12 5018176.24 0.1913 0.0500

Jupiter 9028-01-02 23:16 G 5018470.35 5018470.47 5018470.59 0.0485 0.0318

Jupiter 9028-04-01 19:26 G 5018560.17 5018560.31 5018560.44 0.0485 0.0280

Venus 9029-02-11 19:11 G 5018876.20 5018876.30 5018876.40 0.3682 0.1716

Earth 9030-01-31 22:04 G 5019230.30 5019230.42 5019230.53 0.2664 0.0087

Moon 9030-01-31 22:48 G 5019230.33 5019230.45 5019230.56 0.2667 0.0192 *

Venus 9030-08-26 21:50 G 5019437.32 5019437.41 5019437.51 0.3688 0.2479

Uranus 9032-10-28 21:36 G 5020231.35 5020231.40 5020231.47 0.0144 0.0135

Uranus 9033-01-25 04:19 G 5020319.58 5020319.68 5020319.81 0.0144 0.0108

Uranus 9033-04-23 11:16 G 5020407.84 5020407.97 5020408.13 0.0144 0.0082

Uranus 9033-07-20 18:28 G 5020496.11 5020496.27 5020496.44 0.0144 0.0054

Uranus 9033-10-17 01:40 G 5020584.40 5020584.57 5020584.75 0.0144 0.0026

Jupiter 9033-12-07 06:57 G 5020635.72 5020635.79 5020635.86 0.0543 0.0466

Uranus 9034-01-13 08:52 G 5020672.69 5020672.87 5020673.05 0.0144 0.0003

Jupiter 9034-03-06 20:09 G 5020725.22 5020725.34 5020725.47 0.0543 0.0225

Uranus 9034-04-11 15:50 G 5020760.99 5020761.16 5020761.34 0.0144 0.0029

Uranus 9034-07-08 23:02 G 5020849.30 5020849.46 5020849.63 0.0144 0.0057

Venus 9034-08-28 12:57 G 5020899.93 5020900.04 5020900.15 0.3683 0.0385

Uranus 9034-10-05 06:14 G 5020937.62 5020937.76 5020937.91 0.0144 0.0085

Uranus 9035-01-01 13:26 G 5021025.96 5021026.06 5021026.18 0.0144 0.0113

Uranus 9035-03-30 20:52 G 5021114.35 5021114.37 5021114.41 0.0144 0.0141

Mars 9035-09-22 14:52 G 5021289.99 5021290.12 5021290.26 0.1620 0.0831

Venus 9036-03-11 23:16 G 5021461.33 5021461.47 5021461.60 0.3688 0.0235

Mars 9036-08-03 21:50 G 5021606.33 5021606.41 5021606.49 0.1917 0.1357

Neptune 9036-09-02 11:02 G 5021635.95 5021635.96 5021636.00 0.0088 0.0087

Neptune 9036-11-29 13:40 G 5021724.01 5021724.07 5021724.16 0.0088 0.0079

Neptune 9037-02-25 16:04 G 5021812.09 5021812.17 5021812.29 0.0088 0.0071

Neptune 9037-05-24 18:57 G 5021900.18 5021900.29 5021900.42 0.0088 0.0062

Saturn 9037-07-17 01:26 G 5021953.46 5021953.56 5021953.68 0.0275 0.0181

Neptune 9037-08-20 21:36 G 5021988.27 5021988.40 5021988.54 0.0088 0.0054

Saturn 9037-10-13 14:52 G 5022041.98 5022042.12 5022042.26 0.0275 0.0074

Neptune 9037-11-17 00:00 G 5022076.37 5022076.50 5022076.66 0.0088 0.0046

Saturn 9038-01-10 04:04 G 5022130.52 5022130.67 5022130.81 0.0275 0.0032

Neptune 9038-02-13 02:52 G 5022164.47 5022164.62 5022164.78 0.0088 0.0037

Saturn 9038-04-08 16:48 G 5022219.08 5022219.20 5022219.33 0.0276 0.0134

Neptune 9038-05-12 05:31 G 5022252.57 5022252.73 5022252.89 0.0088 0.0029

Saturn 9038-07-06 05:16 G 5022307.66 5022307.72 5022307.80 0.0276 0.0236

Neptune 9038-08-08 07:55 G 5022340.67 5022340.83 5022341.01 0.0088 0.0021

Neptune 9038-11-04 10:48 G 5022428.78 5022428.95 5022429.12 0.0088 0.0012

Neptune 9039-01-31 13:26 G 5022516.89 5022517.06 5022517.24 0.0088 0.0004

Neptune 9039-04-29 16:04 G 5022605.00 5022605.17 5022605.35 0.0088 0.0005

Neptune 9039-07-26 18:43 G 5022693.12 5022693.28 5022693.46 0.0088 0.0014

Moon 9039-07-28 10:19 G 5022694.84 5022694.93 5022695.03 0.2674 0.1921

Earth 9039-07-28 11:31 G 5022694.88 5022694.98 5022695.08 0.2669 0.1869 *

Jupiter 9039-10-22 00:00 G 5022780.46 5022780.50 5022780.55 0.0485 0.0463

Neptune 9039-10-22 21:36 G 5022781.23 5022781.40 5022781.57 0.0088 0.0022

Neptune 9040-01-19 00:00 G 5022869.35 5022869.50 5022869.68 0.0088 0.0031

Jupiter 9040-01-19 19:40 G 5022870.16 5022870.32 5022870.48 0.0485 0.0129

Venus 9040-03-13 06:28 G 5022923.66 5022923.77 5022923.87 0.3683 0.0915

Neptune 9040-04-16 02:52 G 5022957.47 5022957.62 5022957.78 0.0088 0.0039

Neptune 9040-07-13 05:31 G 5023045.59 5023045.73 5023045.89 0.0088 0.0048

Neptune 9040-10-09 08:09 G 5023133.72 5023133.84 5023133.99 0.0088 0.0057

Neptune 9041-01-05 11:02 G 5023221.85 5023221.96 5023222.09 0.0088 0.0065

Neptune 9041-04-03 13:40 G 5023309.99 5023310.07 5023310.18 0.0088 0.0074

Neptune 9041-06-30 16:19 G 5023398.14 5023398.18 5023398.26 0.0088 0.0083

Venus 9041-09-26 01:11 G 5023485.44 5023485.55 5023485.66 0.3687 0.2190

Earth 9043-02-03 16:33 G 5023981.10 5023981.19 5023981.28 0.2666 0.1556

Moon 9043-02-03 17:31 G 5023981.14 5023981.23 5023981.31 0.2664 0.1708 *

Mars 9045-02-11 18:57 G 5024720.24 5024720.29 5024720.34 0.1616 0.1516

Venus 9045-09-26 23:45 G 5024947.40 5024947.49 5024947.58 0.3684 0.2165

Jupiter 9045-12-23 22:33 G 5025035.31 5025035.44 5025035.58 0.0543 0.0055

Mars 9047-01-19 06:00 G 5025426.68 5025426.75 5025426.81 0.1632 0.1472

Mars 9047-12-01 00:00 G 5025742.41 5025742.50 5025742.60 0.1902 0.1206

Earth 9050-01-27 13:26 G 5026531.04 5026531.06 5026531.08 0.2661 0.2612

Venus 9051-04-12 16:48 G 5026971.16 5026971.20 5026971.24 0.3685 0.3385

Saturn 9051-11-04 04:04 G 5027176.56 5027176.67 5027176.79 0.0284 0.0193

Jupiter 9051-11-07 20:38 G 5027180.19 5027180.36 5027180.52 0.0485 0.0018

Saturn 9052-01-31 22:19 G 5027265.27 5027265.43 5027265.59 0.0284 0.0063

Saturn 9052-04-29 17:02 G 5027354.05 5027354.21 5027354.37 0.0284 0.0071

Saturn 9052-07-27 11:45 G 5027442.89 5027442.99 5027443.11 0.0283 0.0207

Moon 9052-07-30 14:09 G 5027445.95 5027446.09 5027446.24 0.2674 0.0519

Earth 9052-07-30 14:38 G 5027445.97 5027446.11 5027446.25 0.2668 0.0599 *

Mars 9056-06-10 08:52 G 5028856.72 5028856.87 5028857.01 0.1628 0.0713

Mars 9057-04-22 07:40 G 5029172.71 5029172.82 5029172.94 0.1907 0.0411

Jupiter 9057-10-12 00:00 G 5029345.37 5029345.50 5029345.64 0.0543 0.0134

Jupiter 9058-01-09 12:28 G 5029435.02 5029435.02 5029435.03 0.0544 0.0543

Earth 9063-01-30 08:23 G 5031281.74 5031281.85 5031281.95 0.2663 0.1094

Moon 9063-01-30 08:38 G 5031281.75 5031281.86 5031281.96 0.2670 0.1014 *

Jupiter 9063-08-26 21:36 G 5031490.24 5031490.40 5031490.56 0.0485 0.0159

Jupiter 9063-11-24 18:00 G 5031580.19 5031580.25 5031580.32 0.0484 0.0448

Mars 9065-10-31 12:00 G 5032286.84 5032287.00 5032287.16 0.1624 0.0025

Mars 9066-09-12 14:52 G 5032603.00 5032603.12 5032603.24 0.1912 0.0426

Saturn 9066-12-04 04:04 G 5032685.58 5032685.67 5032685.77 0.0274 0.0205

Saturn 9067-03-02 17:31 G 5032774.10 5032774.23 5032774.37 0.0274 0.0099

Saturn 9067-05-30 06:43 G 5032862.64 5032862.78 5032862.92 0.0275 0.0006

Saturn 9067-08-26 19:40 G 5032951.19 5032951.32 5032951.45 0.0275 0.0110

Saturn 9067-11-23 08:09 G 5033039.76 5033039.84 5033039.93 0.0275 0.0211

Jupiter 9069-07-31 02:38 G 5033655.50 5033655.61 5033655.72 0.0544 0.0301

Jupiter 9069-10-28 15:36 G 5033745.06 5033745.15 5033745.24 0.0544 0.0383

Mars 9075-03-23 15:36 G 5035717.01 5035717.15 5035717.29 0.1620 0.0742

Jupiter 9075-06-14 22:04 G 5035800.30 5035800.42 5035800.55 0.0485 0.0307

Uranus 9075-08-09 02:52 G 5035855.59 5035855.62 5035855.66 0.0134 0.0128

Jupiter 9075-09-12 18:14 G 5035890.12 5035890.26 5035890.39 0.0484 0.0292

Uranus 9075-11-05 06:14 G 5035943.69 5035943.76 5035943.85 0.0134 0.0111

Uranus 9076-02-01 09:50 G 5036031.82 5036031.91 5036032.02 0.0134 0.0093

Earth 9076-02-02 03:07 G 5036032.51 5036032.63 5036032.74 0.2664 0.0411

Moon 9076-02-02 03:50 G 5036032.54 5036032.66 5036032.77 0.2666 0.0488 *

Mars 9076-02-02 21:50 G 5036033.32 5036033.41 5036033.50 0.1918 0.1280

Uranus 9076-04-29 13:26 G 5036119.95 5036120.06 5036120.18 0.0134 0.0076

Uranus 9076-07-26 17:02 G 5036208.09 5036208.21 5036208.34 0.0134 0.0058

Uranus 9076-10-22 20:38 G 5036296.22 5036296.36 5036296.49 0.0134 0.0040

Uranus 9077-01-19 00:00 G 5036384.37 5036384.50 5036384.64 0.0134 0.0023

Uranus 9077-04-17 03:36 G 5036472.51 5036472.65 5036472.79 0.0134 0.0006

Uranus 9077-07-14 06:57 G 5036560.65 5036560.79 5036560.93 0.0134 0.0012

Uranus 9077-10-10 10:19 G 5036648.80 5036648.93 5036649.07 0.0134 0.0030

Uranus 9078-01-06 13:55 G 5036736.95 5036737.08 5036737.21 0.0134 0.0047

Uranus 9078-04-04 17:02 G 5036825.10 5036825.21 5036825.34 0.0135 0.0065

Uranus 9078-07-01 20:23 G 5036913.25 5036913.35 5036913.47 0.0135 0.0082

Uranus 9078-09-27 23:45 G 5037001.41 5037001.49 5037001.59 0.0135 0.0099

Uranus 9078-12-25 03:07 G 5037089.57 5037089.63 5037089.71 0.0135 0.0116

Uranus 9079-03-23 06:28 G 5037177.76 5037177.77 5037177.80 0.0135 0.0133

Venus 9080-03-04 23:31 G 5037525.40 5037525.48 5037525.55 0.3682 0.2658

Saturn 9081-03-23 02:38 G 5037908.53 5037908.61 5037908.70 0.0285 0.0241

Jupiter 9081-05-19 05:16 G 5037965.66 5037965.72 5037965.80 0.0543 0.0465

Saturn 9081-06-19 20:38 G 5037997.21 5037997.36 5037997.52 0.0284 0.0113

Jupiter 9081-08-16 18:43 G 5038055.16 5038055.28 5038055.41 0.0544 0.0228

Saturn 9081-09-16 15:07 G 5038085.97 5038086.13 5038086.30 0.0284 0.0020

Saturn 9081-12-14 09:50 G 5038174.77 5038174.91 5038175.06 0.0284 0.0154

Mars 9084-08-12 19:26 G 5039147.24 5039147.31 5039147.38 0.1616 0.1435

Moon 9085-07-28 16:33 G 5039497.08 5039497.19 5039497.30 0.2675 0.1609

Earth 9085-07-28 17:31 G 5039497.11 5039497.23 5039497.35 0.2669 0.1381 *

Venus 9085-09-18 17:16 G 5039549.12 5039549.22 5039549.32 0.3683 0.1295

Mars 9086-07-20 06:28 G 5039853.73 5039853.77 5039853.81 0.1632 0.1564

Venus 9087-04-02 21:50 G 5040110.30 5040110.41 5040110.53 0.3688 0.1811

Jupiter 9087-04-02 23:16 G 5040110.41 5040110.47 5040110.53 0.0485 0.0448 *

Mars 9087-06-01 00:14 G 5040169.43 5040169.51 5040169.60 0.1902 0.1288

Jupiter 9087-07-01 18:43 G 5040200.12 5040200.28 5040200.44 0.0484 0.0143

Earth 9089-02-03 21:36 G 5040783.32 5040783.40 5040783.48 0.2666 0.1866

Moon 9089-02-03 22:19 G 5040783.35 5040783.43 5040783.51 0.2664 0.1937 *

Venus 9091-04-04 11:02 G 5041572.85 5041572.96 5041573.07 0.3683 0.0129

Venus 9092-10-16 23:31 G 5042134.34 5042134.48 5042134.61 0.3687 0.0515

Jupiter 9093-06-04 21:36 G 5042365.26 5042365.40 5042365.53 0.0543 0.0065

Mars 9095-12-10 09:07 G 5043283.75 5043283.88 5043284.02 0.1628 0.0801

Moon 9096-01-28 18:14 G 5043333.20 5043333.26 5043333.32 0.2668 0.2254

Earth 9096-01-28 18:28 G 5043333.21 5043333.27 5043333.33 0.2661 0.2293 *

Saturn	9096-04-22 04:19 G	5043417.63	5043417.68	5043417.75	0.0274	0.0247	
Saturn	9096-07-19 17:45 G	5043506.12	5043506.24	5043506.37	0.0275	0.0141	
Saturn	9096-10-16 07:11 G	5043594.65	5043594.80	5043594.94	0.0275	0.0035	
Venus	9096-10-18 04:19 G	5043596.58	5043596.68	5043596.78	0.3684	0.1303	
Mars	9096-10-21 07:55 G	5043599.71	5043599.83	5043599.94	0.1907	0.0494	
Saturn	9097-01-12 20:09 G	5043683.20	5043683.34	5043683.48	0.0275	0.0069	
Saturn	9097-04-11 08:52 G	5043771.76	5043771.87	5043771.98	0.0276	0.0172	
Saturn	9097-07-08 21:21 G	5043860.38	5043860.39	5043860.41	0.0276	0.0273	
Venus	9098-05-03 01:26 G	5044158.47	5044158.56	5044158.64	0.3687	0.2925	
Moon	9098-07-31 20:38 G	5044248.23	5044248.36	5044248.49	0.2674	0.1153	
Earth	9098-07-31 20:52 G	5044248.23	5044248.37	5044248.50	0.2668	0.1103	*
Jupiter	9099-04-19 19:11 G	5044510.13	5044510.30	5044510.47	0.0485	0.0008	
Venus	9102-05-04 21:36 G	5045620.32	5045620.40	5045620.48	0.3684	0.2551	
Jupiter	9105-03-25 00:00 G	5046675.36	5046675.50	5046675.63	0.0543	0.0108	
Mars	9105-05-02 12:28 G	5046713.87	5046714.02	5046714.18	0.1624	0.0079	
Mars	9106-03-14 15:07 G	5047030.01	5047030.13	5047030.24	0.1912	0.0347	
Earth	9109-01-31 13:11 G	5048083.94	5048084.05	5048084.16	0.2663	0.0779	
Moon	9109-01-31 13:40 G	5048083.96	5048084.07	5048084.18	0.2669	0.0778	*
Saturn	9110-08-11 02:38 G	5048640.59	5048640.61	5048640.64	0.0285	0.0281	
Saturn	9110-11-07 20:38 G	5048729.22	5048729.36	5048729.50	0.0284	0.0153	
Saturn	9111-02-04 14:52 G	5048817.96	5048818.12	5048818.29	0.0284	0.0024	
Jupiter	9111-02-06 20:09 G	5048820.18	5048820.34	5048820.50	0.0485	0.0150	
Saturn	9111-05-04 09:36 G	5048906.75	5048906.90	5048907.06	0.0284	0.0112	
Jupiter	9111-05-07 16:33 G	5048910.15	5048910.19	5048910.25	0.0485	0.0458	
Saturn	9111-08-01 04:33 G	5048995.62	5048995.69	5048995.78	0.0283	0.0248	
Mars	9114-09-22 16:04 G	5050144.03	5050144.17	5050144.32	0.1620	0.0649	
Mars	9115-08-04 22:04 G	5050460.33	5050460.42	5050460.51	0.1917	0.1190	
Uranus	9116-11-19 04:19 G	5050932.62	5050932.68	5050932.77	0.0144	0.0130	
Jupiter	9117-01-11 01:11 G	5050985.43	5050985.55	5050985.66	0.0543	0.0298	
Uranus	9117-02-15 11:31 G	5051020.86	5051020.98	5051021.11	0.0144	0.0102	

Jupiter 9117-04-10 14:09 G 5051074.99 5051075.09 5051075.18 0.0544 0.0386

Uranus 9117-05-14 18:28 G 5051109.12 5051109.27 5051109.42 0.0144 0.0075

Uranus 9117-08-11 01:26 G 5051197.40 5051197.56 5051197.73 0.0144 0.0048

Uranus 9117-11-07 08:38 G 5051285.68 5051285.86 5051286.03 0.0144 0.0021

Uranus 9118-02-03 15:36 G 5051373.98 5051374.15 5051374.33 0.0144 0.0008

Uranus 9118-05-02 22:48 G 5051462.28 5051462.45 5051462.63 0.0144 0.0035

Uranus 9118-07-30 05:45 G 5051550.59 5051550.74 5051550.91 0.0144 0.0063

Uranus 9118-10-26 12:57 G 5051638.92 5051639.04 5051639.19 0.0144 0.0091

Uranus 9119-01-22 20:23 G 5051727.26 5051727.35 5051727.46 0.0144 0.0119

Neptune 9119-03-12 14:52 G 5051776.10 5051776.12 5051776.17 0.0089 0.0087

Neptune 9119-06-08 17:02 G 5051864.14 5051864.21 5051864.28 0.0089 0.0079

Neptune 9119-09-04 18:28 G 5051952.20 5051952.27 5051952.37 0.0089 0.0072

Neptune 9119-12-01 20:23 G 5052040.26 5052040.35 5052040.46 0.0089 0.0064

Neptune 9120-02-27 22:19 G 5052128.32 5052128.43 5052128.55 0.0089 0.0056

Neptune 9120-05-26 00:00 G 5052216.39 5052216.50 5052216.63 0.0089 0.0049

Neptune 9120-08-22 01:55 G 5052304.45 5052304.58 5052304.71 0.0089 0.0041

Neptune 9120-11-18 03:36 G 5052392.52 5052392.65 5052392.79 0.0089 0.0033

Neptune 9121-02-14 05:31 G 5052480.59 5052480.73 5052480.87 0.0089 0.0026

Neptune 9121-05-13 07:11 G 5052568.66 5052568.80 5052568.95 0.0089 0.0018

Neptune 9121-08-09 09:07 G 5052656.73 5052656.88 5052657.02 0.0089 0.0011

Neptune 9121-11-05 10:48 G 5052744.80 5052744.95 5052745.09 0.0089 0.0003

Neptune 9122-02-01 12:28 G 5052832.87 5052833.02 5052833.16 0.0089 0.0004

Earth 9122-02-03 07:55 G 5052834.72 5052834.83 5052834.94 0.2664 0.0713

Moon 9122-02-03 08:38 G 5052834.76 5052834.86 5052834.97 0.2666 0.0869 *

Neptune 9122-04-30 14:09 G 5052920.95 5052921.09 5052921.23 0.0089 0.0012

Neptune 9122-07-27 15:50 G 5053009.02 5053009.16 5053009.30 0.0089 0.0019

Neptune 9122-10-23 17:31 G 5053097.10 5053097.23 5053097.37 0.0089 0.0027

Jupiter 9122-11-25 21:21 G 5053130.26 5053130.39 5053130.52 0.0485 0.0291

Neptune 9123-01-19 18:57 G 5053185.17 5053185.29 5053185.44 0.0089 0.0035

Jupiter 9123-02-23 17:16 G 5053220.10 5053220.22 5053220.36 0.0484 0.0309

Neptune 9123-04-17 20:52 G 5053273.25 5053273.37 5053273.50 0.0089 0.0041

Neptune 9123-07-14 22:33 G 5053361.32 5053361.44 5053361.56 0.0089 0.0049

Neptune 9123-10-11 00:14 G 5053449.40 5053449.51 5053449.62 0.0089 0.0056

Neptune 9124-01-07 01:40 G 5053537.48 5053537.57 5053537.68 0.0089 0.0063

Mars 9124-02-12 19:55 G 5053574.25 5053574.33 5053574.42 0.1616 0.1343

Neptune 9124-04-04 03:21 G 5053625.57 5053625.64 5053625.74 0.0089 0.0071

Neptune 9124-07-01 05:02 G 5053713.65 5053713.71 5053713.79 0.0089 0.0078

Neptune 9124-09-27 06:43 G 5053801.75 5053801.78 5053801.83 0.0089 0.0085

Saturn 9125-09-10 06:57 G 5054149.78 5054149.79 5054149.82 0.0274 0.0271

Saturn 9125-12-07 20:38 G 5054238.24 5054238.36 5054238.48 0.0274 0.0164

Saturn 9126-03-06 09:50 G 5054326.77 5054326.91 5054327.06 0.0275 0.0059

Saturn 9126-06-02 23:02 G 5054415.31 5054415.46 5054415.60 0.0275 0.0046

Saturn 9126-08-30 11:45 G 5054503.87 5054503.99 5054504.11 0.0275 0.0148

Saturn 9126-11-27 00:14 G 5054592.46 5054592.51 5054592.57 0.0276 0.0250

Mars 9126-12-01 00:14 G 5054596.43 5054596.51 5054596.59 0.1902 0.1363

Jupiter 9128-10-30 03:21 G 5055295.58 5055295.64 5055295.71 0.0543 0.0470

Jupiter 9129-01-27 16:48 G 5055385.08 5055385.20 5055385.33 0.0544 0.0224

Venus 9131-03-28 03:36 G 5056174.63 5056174.65 5056174.66 0.3682 0.3616

Moon 9131-07-30 22:33 G 5056299.31 5056299.44 5056299.58 0.2674 0.0931

Earth 9131-07-30 23:31 G 5056299.35 5056299.48 5056299.62 0.2669 0.0902 *

Jupiter 9134-09-13 22:04 G 5057440.35 5057440.42 5057440.49 0.0485 0.0437

Jupiter 9134-12-12 17:31 G 5057530.07 5057530.23 5057530.39 0.0484 0.0155

Earth 9135-02-06 02:23 G 5057585.54 5057585.60 5057585.67 0.2666 0.2176

Moon 9135-02-06 03:07 G 5057585.57 5057585.63 5057585.69 0.2663 0.2264 *

Mars 9135-06-11 09:50 G 5057710.78 5057710.91 5057711.05 0.1628 0.0901

Mars 9136-04-22 07:55 G 5058026.71 5058026.83 5058026.94 0.1907 0.0569

Venus 9136-10-10 21:36 G 5058198.31 5058198.40 5058198.48 0.3682 0.2237

Venus 9138-04-24 20:52 G 5058759.32 5058759.37 5058759.43 0.3689 0.3331

Saturn 9140-03-26 19:26 G 5059461.20 5059461.31 5059461.43 0.0285 0.0199

Saturn 9140-06-23 13:40 G 5059549.92 5059550.07 5059550.24 0.0284 0.0069

Saturn 9140-09-20 08:23 G 5059638.69 5059638.85 5059639.01 0.0284 0.0064

Jupiter 9140-11-15 19:55 G 5059695.20 5059695.33 5059695.47 0.0544 0.0066

Saturn 9140-12-18 03:07 G 5059727.52 5059727.63 5059727.75 0.0284 0.0199

Moon 9142-01-29 23:31 G 5060135.40 5060135.48 5060135.55 0.2669 0.2049

Earth 9142-01-29 23:31 G 5060135.40 5060135.48 5060135.55 0.2662 0.1973 *

Venus 9142-04-26 15:21 G 5060222.03 5060222.14 5060222.25 0.3683 0.0879

Venus 9143-11-08 21:50 G 5060783.29 5060783.41 5060783.54 0.3688 0.1132

Earth 9144-08-02 02:52 G 5061050.50 5061050.62 5061050.74 0.2667 0.1601

Moon 9144-08-02 03:07 G 5061050.51 5061050.63 5061050.75 0.2674 0.1551 *

Mars 9144-10-31 12:57 G 5061140.88 5061141.04 5061141.20 0.1624 0.0157

Pluto 9145-01-06 00:00 G 5061207.46 5061207.50 5061207.55 0.0071 0.0066

Pluto 9145-04-04 00:43 G 5061295.46 5061295.53 5061295.62 0.0071 0.0057

Pluto 9145-07-01 01:40 G 5061383.47 5061383.57 5061383.67 0.0071 0.0048

Mars 9145-09-12 15:07 G 5061457.01 5061457.13 5061457.25 0.1913 0.0256

Pluto 9145-09-27 02:23 G 5061471.49 5061471.60 5061471.71 0.0071 0.0039

Pluto 9145-12-24 03:07 G 5061559.51 5061559.63 5061559.76 0.0071 0.0030

Pluto 9146-03-22 03:50 G 5061647.53 5061647.66 5061647.80 0.0071 0.0021

Pluto 9146-06-18 04:33 G 5061735.56 5061735.69 5061735.83 0.0072 0.0013

Pluto 9146-09-14 05:31 G 5061823.59 5061823.73 5061823.87 0.0072 0.0003

Jupiter 9146-09-30 18:14 G 5061840.09 5061840.26 5061840.43 0.0484 0.0007

Pluto 9146-12-11 06:14 G 5061911.63 5061911.76 5061911.90 0.0072 0.0007

Pluto 9147-03-09 06:57 G 5061999.66 5061999.79 5061999.93 0.0072 0.0016

Pluto 9147-06-05 07:55 G 5062087.70 5062087.83 5062087.96 0.0072 0.0025

Pluto 9147-09-01 08:23 G 5062175.74 5062175.85 5062175.98 0.0072 0.0035

Venus 9147-11-10 08:52 G 5062245.76 5062245.87 5062245.98 0.3683 0.0423

Pluto 9147-11-28 09:21 G 5062263.79 5062263.89 5062264.00 0.0072 0.0045

Pluto 9148-02-24 10:04 G 5062351.84 5062351.92 5062352.02 0.0072 0.0055

Pluto 9148-05-22 10:48 G 5062439.90 5062439.95 5062440.03 0.0073 0.0065

Venus 9149-05-24 23:31 G 5062807.35 5062807.48 5062807.61 0.3687 0.1205

Jupiter 9152-09-03 22:48 G 5064005.31 5064005.45 5064005.58 0.0543 0.0099

Venus	9153-05-26 02:09 G	5064269.50	5064269.59	5064269.69	0.3684	0.1701
Mars	9154-03-23 16:33 G	5064571.04	5064571.19	5064571.34	0.1620	0.0563
Venus	9154-12-09 01:40 G	5064831.57	5064831.57	5064831.57	0.3686	0.3682
Earth	9155-02-01 18:14 G	5064886.15	5064886.26	5064886.37	0.2663	0.0462
Moon	9155-02-01 18:43 G	5064886.17	5064886.28	5064886.40	0.2668	0.0333 *
Mars	9155-02-02 22:04 G	5064887.33	5064887.42	5064887.52	0.1917	0.1112
Saturn	9155-04-26 20:52 G	5064970.28	5064970.37	5064970.47	0.0274	0.0206
Saturn	9155-07-24 10:19 G	5065058.79	5065058.93	5065059.06	0.0275	0.0100
Saturn	9155-10-20 23:16 G	5065147.33	5065147.47	5065147.62	0.0275	0.0010
Saturn	9156-01-17 12:14 G	5065235.88	5065236.01	5065236.14	0.0275	0.0109
Saturn	9156-04-15 00:57 G	5065324.45	5065324.54	5065324.63	0.0276	0.0210
Jupiter	9158-07-19 18:43 G	5066150.13	5066150.28	5066150.44	0.0485	0.0143
Jupiter	9158-10-17 15:21 G	5066240.10	5066240.14	5066240.19	0.0485	0.0465
Venus	9158-12-09 19:26 G	5066293.25	5066293.31	5066293.38	0.3684	0.2925
Uranus	9159-08-30 09:36 G	5066556.86	5066556.90	5066556.95	0.0134	0.0125
Uranus	9159-11-26 12:57 G	5066644.97	5066645.04	5066645.14	0.0134	0.0108
Uranus	9160-02-22 16:48 G	5066733.10	5066733.20	5066733.31	0.0134	0.0090
Uranus	9160-05-20 20:23 G	5066821.23	5066821.35	5066821.47	0.0134	0.0072
Uranus	9160-08-17 00:00 G	5066909.37	5066909.50	5066909.63	0.0134	0.0055
Uranus	9160-11-13 03:21 G	5066997.51	5066997.64	5066997.78	0.0134	0.0037
Uranus	9161-02-09 06:57 G	5067085.65	5067085.79	5067085.93	0.0134	0.0019
Uranus	9161-05-08 10:19 G	5067173.79	5067173.93	5067174.07	0.0134	0.0004
Uranus	9161-08-04 13:55 G	5067261.94	5067262.08	5067262.22	0.0134	0.0016
Uranus	9161-10-31 17:16 G	5067350.09	5067350.22	5067350.36	0.0134	0.0033
Uranus	9162-01-27 20:38 G	5067438.23	5067438.36	5067438.49	0.0134	0.0050
Uranus	9162-04-26 00:00 G	5067526.39	5067526.50	5067526.62	0.0135	0.0067
Uranus	9162-07-23 03:21 G	5067614.54	5067614.64	5067614.75	0.0135	0.0085
Uranus	9162-10-19 06:43 G	5067702.70	5067702.78	5067702.88	0.0135	0.0102
Uranus	9163-01-15 10:04 G	5067790.86	5067790.92	5067790.99	0.0135	0.0119
Mars	9163-08-13 20:23 G	5068001.26	5068001.35	5068001.45	0.1617	0.1256

Jupiter	9164-06-23 00:57 G	5068315.42	5068315.54	5068315.66	0.0543	0.0272	
Jupiter	9164-09-20 13:40 G	5068404.99	5068405.07	5068405.16	0.0543	0.0411	
Mars	9166-06-01 00:28 G	5069023.44	5069023.52	5069023.59	0.1901	0.1446	
Earth	9168-02-04 12:57 G	5069636.93	5069637.04	5069637.14	0.2665	0.1025	
Moon	9168-02-04 13:40 G	5069636.97	5069637.07	5069637.18	0.2666	0.1088	*
Saturn	9169-08-13 19:11 G	5070193.23	5070193.30	5070193.40	0.0285	0.0241	
Saturn	9169-11-10 13:26 G	5070281.91	5070282.06	5070282.21	0.0284	0.0111	
Saturn	9170-02-07 07:55 G	5070370.66	5070370.83	5070370.99	0.0284	0.0020	
Saturn	9170-05-07 02:38 G	5070459.47	5070459.61	5070459.75	0.0283	0.0154	
Jupiter	9170-05-07 19:55 G	5070460.20	5070460.33	5070460.47	0.0485	0.0283	
Jupiter	9170-08-05 16:04 G	5070550.04	5070550.17	5070550.30	0.0485	0.0317	
Mars	9174-12-10 10:33 G	5072137.81	5072137.94	5072138.07	0.1628	0.0993	
Mars	9175-10-22 07:55 G	5072453.72	5072453.83	5072453.94	0.1907	0.0651	
Jupiter	9176-04-11 01:55 G	5072625.52	5072625.58	5072625.65	0.0543	0.0466	
Jupiter	9176-07-09 15:21 G	5072715.02	5072715.14	5072715.27	0.0544	0.0227	
Moon	9177-07-31 05:02 G	5073101.56	5073101.71	5073101.85	0.2674	0.0598	
Earth	9177-07-31 05:45 G	5073101.59	5073101.74	5073101.88	0.2669	0.0416	*
Earth	9181-02-06 07:26 G	5074387.77	5074387.81	5074387.85	0.2666	0.2481	
Moon	9181-02-06 07:55 G	5074387.81	5074387.83	5074387.86	0.2661	0.2573	*
Jupiter	9182-02-23 21:07 G	5074770.31	5074770.38	5074770.46	0.0485	0.0423	
Jupiter	9182-05-24 16:48 G	5074860.04	5074860.20	5074860.36	0.0485	0.0170	
Mars	9184-05-01 13:40 G	5075567.91	5075568.07	5075568.23	0.1624	0.0250	
Saturn	9184-09-12 23:45 G	5075702.41	5075702.49	5075702.57	0.0274	0.0228	
Saturn	9184-12-10 13:11 G	5075790.92	5075791.05	5075791.18	0.0275	0.0122	
Saturn	9185-03-09 02:23 G	5075879.46	5075879.60	5075879.75	0.0275	0.0017	
Mars	9185-03-13 15:07 G	5075884.02	5075884.13	5075884.25	0.1912	0.0187	
Saturn	9185-06-05 15:21 G	5075968.00	5075968.14	5075968.28	0.0275	0.0087	
Saturn	9185-09-02 04:04 G	5076056.57	5076056.67	5076056.77	0.0276	0.0189	
Venus	9187-11-02 01:40 G	5076847.51	5076847.57	5076847.62	0.3682	0.3189	
Moon	9188-01-31 04:33 G	5076937.59	5076937.69	5076937.78	0.2669	0.1600	

Earth 9188-01-31 04:33 G 5076937.60 5076937.69 5076937.78 0.2662 0.1652 *

Jupiter 9188-04-27 18:00 G 5077025.12 5077025.25 5077025.39 0.0544 0.0060

Earth 9190-08-03 09:07 G 5077852.79 5077852.88 5077852.97 0.2667 0.2100

Moon 9190-08-03 09:21 G 5077852.81 5077852.89 5077852.97 0.2674 0.2249 *

Venus 9193-05-17 19:40 G 5078871.22 5078871.32 5078871.41 0.3683 0.1812

Mars 9193-09-21 17:02 G 5078998.06 5078998.21 5078998.37 0.1620 0.0475

Jupiter 9194-03-12 17:02 G 5079170.04 5079170.21 5079170.38 0.0484 0.0017

Mars 9194-08-03 22:19 G 5079314.33 5079314.43 5079314.53 0.1917 0.1028

Venus 9194-11-29 20:52 G 5079432.28 5079432.37 5079432.46 0.3688 0.2672

Venus 9198-12-01 13:11 G 5080894.94 5080895.05 5080895.16 0.3683 0.0492

Saturn 9198-12-31 18:57 G 5080925.27 5080925.29 5080925.32 0.0285 0.0281

Saturn 9199-03-30 12:57 G 5081013.91 5081014.04 5081014.18 0.0284 0.0153

Saturn 9199-06-27 07:11 G 5081102.64 5081102.80 5081102.97 0.0284 0.0023

Saturn 9199-09-24 01:40 G 5081191.42 5081191.57 5081191.73 0.0284 0.0111

Saturn 9199-12-21 20:52 G 5081280.29 5081280.37 5081280.45 0.0283 0.0245

Jupiter 9200-02-14 20:52 G 5081335.24 5081335.37 5081335.51 0.0544 0.0102

Venus 9200-06-14 22:04 G 5081456.28 5081456.42 5081456.55 0.3687 0.0444

Uranus 9200-12-09 11:31 G 5081633.90 5081633.98 5081634.07 0.0144 0.0124

Earth 9201-02-01 23:16 G 5081688.35 5081688.47 5081688.58 0.2663 0.0160

Moon 9201-02-01 23:45 G 5081688.38 5081688.49 5081688.61 0.2667 0.0152 *

Uranus 9201-03-07 18:14 G 5081722.14 5081722.26 5081722.40 0.0144 0.0097

Neptune 9201-05-31 10:48 G 5081806.90 5081806.95 5081807.02 0.0088 0.0082

Uranus 9201-06-04 01:11 G 5081810.41 5081810.55 5081810.71 0.0144 0.0070

Neptune 9201-08-27 13:11 G 5081894.97 5081895.05 5081895.15 0.0088 0.0074

Uranus 9201-08-31 08:23 G 5081898.68 5081898.85 5081899.02 0.0144 0.0043

Neptune 9201-11-23 15:36 G 5081983.06 5081983.15 5081983.28 0.0088 0.0066

Uranus 9201-11-27 15:21 G 5081986.97 5081987.14 5081987.32 0.0144 0.0016

Neptune 9202-02-19 18:14 G 5082071.15 5082071.26 5082071.40 0.0088 0.0058

Uranus 9202-02-23 22:33 G 5082075.26 5082075.44 5082075.62 0.0144 0.0012

Neptune 9202-05-18 21:07 G 5082159.24 5082159.38 5082159.52 0.0088 0.0049

Uranus 9202-05-23 05:45 G 5082163.57 5082163.74 5082163.91 0.0144 0.0040

Neptune 9202-08-14 23:31 G 5082247.34 5082247.48 5082247.64 0.0088 0.0041

Uranus 9202-08-19 12:57 G 5082251.88 5082252.04 5082252.20 0.0144 0.0068

Neptune 9202-11-11 02:09 G 5082335.44 5082335.59 5082335.76 0.0088 0.0033

Uranus 9202-11-15 20:09 G 5082340.21 5082340.34 5082340.48 0.0144 0.0096

Neptune 9203-02-07 05:02 G 5082423.54 5082423.71 5082423.87 0.0088 0.0024

Mars 9203-02-11 20:52 G 5082428.26 5082428.37 5082428.48 0.1617 0.1174

Uranus 9203-02-12 03:21 G 5082428.56 5082428.64 5082428.74 0.0144 0.0124

Neptune 9203-05-06 07:40 G 5082511.65 5082511.82 5082511.99 0.0088 0.0016

Neptune 9203-08-02 10:19 G 5082599.76 5082599.93 5082600.10 0.0088 0.0007

Neptune 9203-10-29 12:57 G 5082687.87 5082688.04 5082688.21 0.0088 0.0001

Mars 9203-12-25 05:02 G 5082744.70 5082744.71 5082744.73 0.1922 0.1900

Neptune 9204-01-25 15:36 G 5082775.98 5082776.15 5082776.32 0.0088 0.0010

Neptune 9204-04-22 18:14 G 5082864.09 5082864.26 5082864.43 0.0088 0.0018

Venus 9204-06-16 06:57 G 5082918.68 5082918.79 5082918.89 0.3684 0.0838

Neptune 9204-07-19 20:52 G 5082952.21 5082952.37 5082952.54 0.0088 0.0027

Neptune 9204-10-15 23:45 G 5083040.33 5083040.49 5083040.65 0.0088 0.0035

Neptune 9205-01-12 02:09 G 5083128.45 5083128.59 5083128.75 0.0088 0.0044

Neptune 9205-04-10 04:48 G 5083216.58 5083216.70 5083216.86 0.0088 0.0053

Neptune 9205-07-07 07:55 G 5083304.71 5083304.83 5083304.95 0.0088 0.0061

Neptune 9205-10-03 10:19 G 5083392.84 5083392.93 5083393.05 0.0088 0.0070

Mars 9205-11-30 00:28 G 5083450.45 5083450.52 5083450.59 0.1902 0.1525

Jupiter 9205-12-29 17:45 G 5083480.08 5083480.24 5083480.40 0.0485 0.0130

Venus 9205-12-29 23:45 G 5083480.37 5083480.49 5083480.61 0.3687 0.1936 *

Neptune 9205-12-30 12:57 G 5083480.98 5083481.04 5083481.14 0.0088 0.0079

Neptune 9206-03-28 15:50 G 5083569.16 5083569.16 5083569.19 0.0088 0.0088

Jupiter 9206-03-29 14:09 G 5083570.07 5083570.09 5083570.12 0.0484 0.0476

Venus 9209-12-31 00:14 G 5084942.42 5084942.51 5084942.60 0.3684 0.2082

Moon 9210-07-29 07:26 G 5085152.77 5085152.81 5085152.85 0.2674 0.2544

Earth 9210-07-29 08:52 G 5085152.80 5085152.87 5085152.93 0.2670 0.2347 *

Jupiter 9211-12-03 23:31 G 5085645.36 5085645.48 5085645.60 0.0543 0.0267

Jupiter 9212-03-02 12:28 G 5085734.94 5085735.02 5085735.11 0.0544 0.0417

Saturn 9214-01-31 00:00 G 5086434.48 5086434.50 5086434.52 0.0274 0.0271

Earth 9214-02-04 17:45 G 5086439.15 5086439.24 5086439.34 0.2665 0.1333

Moon 9214-02-04 18:43 G 5086439.18 5086439.28 5086439.37 0.2665 0.1497 *

Saturn 9214-04-29 13:26 G 5086522.95 5086523.06 5086523.18 0.0275 0.0164

Mars 9214-06-10 11:02 G 5086564.84 5086564.96 5086565.08 0.1628 0.1084

Saturn 9214-07-27 02:38 G 5086611.47 5086611.61 5086611.76 0.0275 0.0059

Saturn 9214-10-23 15:50 G 5086700.02 5086700.16 5086700.30 0.0275 0.0046

Saturn 9215-01-20 04:33 G 5086788.58 5086788.69 5086788.82 0.0276 0.0150

Saturn 9215-04-18 17:16 G 5086877.17 5086877.22 5086877.28 0.0276 0.0250

Mars 9215-04-22 08:09 G 5086880.73 5086880.84 5086880.95 0.1907 0.0737

Venus 9215-07-16 17:16 G 5086966.18 5086966.22 5086966.27 0.3685 0.3304

Jupiter 9217-10-17 18:28 G 5087790.13 5087790.27 5087790.40 0.0485 0.0277

Jupiter 9218-01-15 14:23 G 5087879.98 5087880.10 5087880.23 0.0485 0.0323

Moon 9223-08-01 11:16 G 5089903.83 5089903.97 5089904.12 0.2675 0.0100

Earth 9223-08-01 11:45 G 5089903.84 5089903.99 5089904.14 0.2669 0.0083 *

Jupiter 9223-09-22 01:40 G 5089955.49 5089955.57 5089955.65 0.0543 0.0442

Mars 9223-10-31 14:09 G 5089994.94 5089995.09 5089995.25 0.1624 0.0345

Jupiter 9223-12-20 15:07 G 5090045.01 5090045.13 5090045.25 0.0543 0.0250

Mars 9224-09-11 15:21 G 5090311.02 5090311.14 5090311.26 0.1912 0.0106

Saturn 9228-08-16 12:43 G 5091745.91 5091746.03 5091746.15 0.0284 0.0195

Saturn 9228-11-13 06:43 G 5091834.63 5091834.78 5091834.95 0.0284 0.0066

Saturn 9229-02-10 01:26 G 5091923.40 5091923.56 5091923.72 0.0284 0.0067

Saturn 9229-05-09 20:09 G 5092012.23 5092012.34 5092012.46 0.0283 0.0202

Jupiter 9229-08-05 19:40 G 5092100.24 5092100.32 5092100.40 0.0485 0.0417

Jupiter 9229-11-03 15:07 G 5092189.98 5092190.13 5092190.29 0.0485 0.0177

Pluto 9230-08-28 20:23 G 5092488.29 5092488.35 5092488.43 0.0073 0.0067

Pluto 9230-11-24 22:19 G 5092576.32 5092576.43 5092576.58 0.0073 0.0054

Pluto 9231-02-21 00:57 G 5092664.38 5092664.54 5092664.70 0.0073 0.0040

Pluto 9231-05-20 02:52 G 5092752.46 5092752.62 5092752.80 0.0073 0.0027

Pluto 9231-08-16 05:16 G 5092840.54 5092840.72 5092840.90 0.0072 0.0014

Pluto 9231-11-12 07:26 G 5092928.62 5092928.81 5092929.00 0.0072 0.0001

Pluto 9232-02-08 09:36 G 5093016.71 5093016.90 5093017.08 0.0072 0.0013

Pluto 9232-05-06 11:31 G 5093104.81 5093104.98 5093105.16 0.0072 0.0025

Pluto 9232-08-02 13:26 G 5093192.91 5093193.06 5093193.23 0.0072 0.0038

Pluto 9232-10-29 15:21 G 5093281.03 5093281.14 5093281.29 0.0072 0.0051

Pluto 9233-01-25 17:16 G 5093369.16 5093369.22 5093369.33 0.0072 0.0064

Mars 9233-03-22 17:45 G 5093425.08 5093425.24 5093425.39 0.1620 0.0383

Earth 9234-01-31 09:21 G 5093739.79 5093739.89 5093739.99 0.2662 0.1333

Moon 9234-01-31 09:36 G 5093739.80 5093739.90 5093740.00 0.2668 0.1356 *

Mars 9234-02-01 22:19 G 5093741.33 5093741.43 5093741.54 0.1917 0.0945

Jupiter 9235-10-08 16:33 G 5094355.05 5094355.19 5094355.32 0.0543 0.0063

Earth 9236-08-03 15:07 G 5094655.11 5094655.13 5094655.16 0.2667 0.2608

Moon 9236-08-03 15:36 G 5094655.11 5094655.15 5094655.19 0.2674 0.2573 *

Jupiter 9241-08-22 16:04 G 5096500.00 5096500.17 5096500.33 0.0485 0.0032

Mars 9242-08-12 21:36 G 5096855.28 5096855.40 5096855.51 0.1617 0.1079

Mars 9243-06-25 05:02 G 5097171.68 5097171.71 5097171.75 0.1922 0.1822

Saturn 9243-09-16 16:33 G 5097255.08 5097255.19 5097255.30 0.0275 0.0184

Uranus 9243-09-19 16:19 G 5097258.13 5097258.18 5097258.24 0.0134 0.0123

Saturn 9243-12-14 06:00 G 5097343.61 5097343.75 5097343.89 0.0275 0.0078

Uranus 9243-12-16 19:55 G 5097346.25 5097346.33 5097346.42 0.0134 0.0105

Saturn 9244-03-11 18:57 G 5097432.15 5097432.29 5097432.44 0.0275 0.0027

Uranus 9244-03-13 23:31 G 5097434.38 5097434.48 5097434.59 0.0134 0.0087

Venus 9244-06-07 23:45 G 5097520.42 5097520.49 5097520.56 0.3682 0.2753

Saturn 9244-06-08 07:55 G 5097520.71 5097520.83 5097520.96 0.0276 0.0129

Uranus 9244-06-10 03:07 G 5097522.51 5097522.63 5097522.75 0.0134 0.0069

Saturn 9244-09-04 20:38 G 5097609.29 5097609.36 5097609.44 0.0276 0.0231

Uranus 9244-09-06 06:28 G 5097610.65 5097610.77 5097610.91 0.0134 0.0053

Uranus 9244-12-03 10:19 G 5097698.79 5097698.93 5097699.06 0.0134 0.0034

Uranus 9245-03-01 13:40 G 5097786.93 5097787.07 5097787.21 0.0134 0.0017

Uranus 9245-05-28 17:16 G 5097875.08 5097875.22 5097875.36 0.0134 0.0004

Mars 9245-05-31 00:28 G 5097877.46 5097877.52 5097877.59 0.1901 0.1607

Uranus 9245-08-24 20:38 G 5097963.22 5097963.36 5097963.50 0.0134 0.0018

Uranus 9245-11-21 00:00 G 5098051.37 5098051.50 5098051.64 0.0134 0.0036

Uranus 9246-02-17 03:21 G 5098139.52 5098139.64 5098139.77 0.0134 0.0053

Uranus 9246-05-16 06:43 G 5098227.67 5098227.78 5098227.91 0.0134 0.0070

Uranus 9246-08-12 10:04 G 5098315.82 5098315.92 5098316.03 0.0135 0.0088

Uranus 9246-11-08 13:26 G 5098403.98 5098404.06 5098404.15 0.0135 0.0105

Earth 9247-02-03 04:04 G 5098490.56 5098490.67 5098490.79 0.2663 0.0188

Moon 9247-02-03 04:48 G 5098490.59 5098490.70 5098490.82 0.2667 0.0334 *

Uranus 9247-02-04 16:48 G 5098492.15 5098492.20 5098492.27 0.0135 0.0122

Jupiter 9247-07-27 18:57 G 5098665.15 5098665.29 5098665.42 0.0543 0.0110

Venus 9249-12-22 17:45 G 5099544.13 5099544.24 5099544.34 0.3683 0.1390

Venus 9251-07-06 20:52 G 5100105.26 5100105.37 5100105.48 0.3688 0.2005

Jupiter 9253-06-10 16:19 G 5100810.02 5100810.18 5100810.34 0.0485 0.0122

Jupiter 9253-09-08 12:43 G 5100900.03 5100900.03 5100900.04 0.0484 0.0484

Mars 9253-12-09 11:31 G 5100991.88 5100991.98 5100992.09 0.1628 0.1182

Mars 9254-10-21 08:09 G 5101307.73 5101307.84 5101307.94 0.1907 0.0809

Venus 9255-07-08 11:16 G 5101567.86 5101567.97 5101568.08 0.3683 0.0093

Moon 9256-07-29 13:40 G 5101954.97 5101955.07 5101955.16 0.2674 0.2017

Earth 9256-07-29 14:52 G 5101955.01 5101955.12 5101955.22 0.2670 0.1871 *

Venus 9257-01-19 22:04 G 5102129.29 5102129.42 5102129.56 0.3687 0.0294

Saturn 9258-01-03 12:57 G 5102477.95 5102478.04 5102478.13 0.0285 0.0232

Saturn 9258-04-02 06:57 G 5102566.64 5102566.79 5102566.94 0.0284 0.0104

Saturn 9258-06-30 01:11 G 5102655.39 5102655.55 5102655.72 0.0284 0.0028

Saturn 9258-09-26 19:55 G 5102744.20 5102744.33 5102744.47 0.0284 0.0161

Jupiter 9259-05-15 21:36 G 5102975.28 5102975.40 5102975.52 0.0544 0.0273

Jupiter 9259-08-13 10:33 G 5103064.86 5103064.94 5103065.03 0.0544 0.0412

Earth 9260-02-05 22:48 G 5103241.36 5103241.45 5103241.54 0.2665 0.1645

Moon	9260-02-05 23:31 G	5103241.39	5103241.48	5103241.57	0.2663	0.1680 *
Venus	9261-01-21 04:48 G	5103591.60	5103591.70	5103591.81	0.3684	0.1222
Venus	9262-08-06 00:14 G	5104153.41	5104153.51	5104153.60	0.3686	0.2686
Mars	9263-05-01 14:38 G	5104421.96	5104422.11	5104422.26	0.1624	0.0427
Mars	9264-03-12 15:36 G	5104738.03	5104738.15	5104738.27	0.1912	0.0065
Jupiter	9265-03-29 17:02 G	5105120.08	5105120.21	5105120.36	0.0485	0.0268
Jupiter	9265-06-27 13:11 G	5105209.93	5105210.05	5105210.17	0.0484	0.0332
Venus	9266-08-06 22:04 G	5105615.34	5105615.42	5105615.50	0.3684	0.2469
Moon	9267-01-29 19:11 G	5105791.27	5105791.30	5105791.32	0.2667	0.2584
Earth	9267-01-29 19:26 G	5105791.28	5105791.31	5105791.34	0.2661	0.2541 *
Moon	9269-08-01 17:45 G	5106706.10	5106706.24	5106706.38	0.2676	0.0520
Earth	9269-08-01 18:00 G	5106706.10	5106706.25	5106706.39	0.2669	0.0592 *
Jupiter	9271-03-04 00:00 G	5107285.43	5107285.50	5107285.59	0.0543	0.0441
Jupiter	9271-06-01 13:40 G	5107374.95	5107375.07	5107375.19	0.0544	0.0253
Venus	9272-02-20 15:21 G	5107639.13	5107639.14	5107639.14	0.3685	0.3677
Mars	9272-09-20 18:14 G	5107852.11	5107852.26	5107852.42	0.1620	0.0290
Saturn	9273-02-02 17:02 G	5107987.13	5107987.21	5107987.29	0.0274	0.0225
Saturn	9273-05-02 06:28 G	5108075.64	5108075.77	5108075.90	0.0275	0.0118
Saturn	9273-07-29 19:40 G	5108164.18	5108164.32	5108164.47	0.0275	0.0014
Mars	9273-08-02 22:33 G	5108168.33	5108168.44	5108168.55	0.1917	0.0857
Saturn	9273-10-26 08:38 G	5108252.73	5108252.86	5108253.00	0.0275	0.0091
Saturn	9274-01-22 21:21 G	5108341.30	5108341.39	5108341.50	0.0276	0.0193
Jupiter	9277-01-15 18:00 G	5109430.17	5109430.25	5109430.33	0.0485	0.0413
Jupiter	9277-04-15 13:26 G	5109519.90	5109520.06	5109520.22	0.0485	0.0179
Earth	9280-02-01 14:23 G	5110541.99	5110542.10	5110542.21	0.2662	0.1016
Moon	9280-02-01 14:38 G	5110542.01	5110542.11	5110542.22	0.2668	0.0961 *
Mars	9282-02-10 22:04 G	5111282.29	5111282.42	5111282.54	0.1617	0.0994
Mars	9282-12-24 05:16 G	5111598.67	5111598.72	5111598.77	0.1922	0.1735
Jupiter	9283-03-20 16:04 G	5111685.03	5111685.17	5111685.30	0.0543	0.0083
Neptune	9283-12-07 14:52 G	5111947.08	5111947.12	5111947.19	0.0089	0.0082

Neptune 9284-03-04 16:48 G 5112035.13 5112035.20 5112035.29 0.0089 0.0075

Neptune 9284-05-31 18:43 G 5112123.19 5112123.28 5112123.38 0.0089 0.0067

Neptune 9284-08-27 20:23 G 5112211.25 5112211.35 5112211.47 0.0089 0.0059

Neptune 9284-11-23 22:19 G 5112299.32 5112299.43 5112299.55 0.0089 0.0052

Mars 9284-11-29 00:28 G 5112304.47 5112304.52 5112304.58 0.1901 0.1683

Uranus 9284-12-29 18:00 G 5112335.17 5112335.25 5112335.36 0.0144 0.0120

Neptune 9285-02-20 00:00 G 5112387.38 5112387.50 5112387.64 0.0089 0.0044

Uranus 9285-03-28 00:57 G 5112423.42 5112423.54 5112423.69 0.0144 0.0093

Neptune 9285-05-19 01:55 G 5112475.45 5112475.58 5112475.72 0.0089 0.0036

Uranus 9285-06-24 08:09 G 5112511.68 5112511.84 5112512.00 0.0144 0.0065

Neptune 9285-08-15 03:50 G 5112563.52 5112563.66 5112563.79 0.0089 0.0029

Uranus 9285-09-20 15:07 G 5112599.96 5112600.13 5112600.31 0.0144 0.0038

Neptune 9285-11-11 05:31 G 5112651.59 5112651.73 5112651.87 0.0089 0.0021

Uranus 9285-12-17 22:19 G 5112688.25 5112688.43 5112688.61 0.0144 0.0011

Neptune 9286-02-07 07:11 G 5112739.66 5112739.80 5112739.95 0.0089 0.0014

Uranus 9286-03-16 05:16 G 5112776.55 5112776.72 5112776.90 0.0144 0.0017

Neptune 9286-05-06 08:52 G 5112827.73 5112827.87 5112828.02 0.0089 0.0007

Uranus 9286-06-12 12:28 G 5112864.85 5112865.02 5112865.19 0.0144 0.0045

Neptune 9286-08-02 10:48 G 5112915.80 5112915.95 5112916.09 0.0089 0.0002

Uranus 9286-09-08 19:40 G 5112953.17 5112953.32 5112953.48 0.0144 0.0073

Neptune 9286-10-29 12:28 G 5113003.87 5113004.02 5113004.16 0.0089 0.0009

Uranus 9286-12-06 02:52 G 5113041.50 5113041.62 5113041.75 0.0144 0.0101

Neptune 9287-01-25 14:09 G 5113091.95 5113092.09 5113092.23 0.0089 0.0016

Uranus 9287-03-04 10:04 G 5113129.85 5113129.92 5113130.01 0.0144 0.0129

Neptune 9287-04-23 15:50 G 5113180.02 5113180.16 5113180.30 0.0089 0.0023

Saturn 9287-05-23 12:28 G 5113209.99 5113210.02 5113210.07 0.0285 0.0274

Neptune 9287-07-20 17:31 G 5113268.10 5113268.23 5113268.37 0.0089 0.0031

Saturn 9287-08-20 06:28 G 5113298.63 5113298.77 5113298.91 0.0284 0.0147

Neptune 9287-10-16 19:11 G 5113356.17 5113356.30 5113356.43 0.0089 0.0038

Saturn 9287-11-17 00:43 G 5113387.37 5113387.53 5113387.70 0.0284 0.0016

Neptune 9288-01-12 20:52 G 5113444.25 5113444.37 5113444.50 0.0089 0.0046

Saturn 9288-02-13 19:26 G 5113476.16 5113476.31 5113476.46 0.0284 0.0117

Neptune 9288-04-09 22:33 G 5113532.33 5113532.44 5113532.56 0.0089 0.0053

Saturn 9288-05-12 14:09 G 5113565.03 5113565.09 5113565.18 0.0283 0.0253

Neptune 9288-07-07 00:00 G 5113620.41 5113620.50 5113620.62 0.0089 0.0061

Neptune 9288-10-03 01:40 G 5113708.49 5113708.57 5113708.68 0.0089 0.0068

Neptune 9288-12-30 03:21 G 5113796.58 5113796.64 5113796.73 0.0089 0.0075

Jupiter 9289-02-01 14:23 G 5113829.93 5113830.10 5113830.26 0.0485 0.0035

Neptune 9289-03-28 05:02 G 5113884.67 5113884.71 5113884.78 0.0089 0.0082

Neptune 9289-06-24 06:57 G 5113972.78 5113972.79 5113972.80 0.0089 0.0089

Earth 9293-02-03 09:07 G 5115292.77 5115292.88 5115292.99 0.2663 0.0482

Moon 9293-02-03 09:50 G 5115292.80 5115292.91 5115293.02 0.2667 0.0526 *

Mars 9293-06-09 12:14 G 5115418.91 5115419.01 5115419.11 0.1628 0.1276

Mars 9294-04-21 08:09 G 5115734.74 5115734.84 5115734.95 0.1907 0.0897

Jupiter 9295-01-06 17:16 G 5115995.09 5115995.22 5115995.36 0.0543 0.0108

Jupiter 9300-11-21 15:07 G 5118139.97 5118140.13 5118140.29 0.0485 0.0112

Venus 9301-01-13 21:50 G 5118193.32 5118193.41 5118193.50 0.3682 0.2321

Saturn 9302-06-23 19:55 G 5118719.27 5118719.33 5118719.40 0.0275 0.0246

Venus 9302-07-28 19:55 G 5118754.30 5118754.33 5118754.37 0.3688 0.3501

Moon 9302-07-31 19:55 G 5118757.21 5118757.33 5118757.44 0.2674 0.1504

Earth 9302-07-31 20:52 G 5118757.24 5118757.37 5118757.49 0.2670 0.1393 *

Saturn 9302-09-20 09:36 G 5118807.78 5118807.90 5118808.03 0.0275 0.0138

Mars 9302-10-31 15:21 G 5118848.99 5118849.14 5118849.29 0.1624 0.0529

Saturn 9302-12-17 22:48 G 5118896.31 5118896.45 5118896.60 0.0275 0.0034

Saturn 9303-03-16 12:00 G 5118984.86 5118985.00 5118985.14 0.0276 0.0071

Saturn 9303-06-13 00:43 G 5119073.42 5119073.53 5119073.64 0.0276 0.0174

Saturn 9303-09-09 13:26 G 5119162.05 5119162.06 5119162.07 0.0276 0.0274

Mars 9303-09-12 15:36 G 5119165.03 5119165.15 5119165.26 0.1912 0.0098

Earth 9306-02-07 03:50 G 5120043.58 5120043.66 5120043.73 0.2665 0.1953

Moon 9306-02-07 04:33 G 5120043.62 5120043.69 5120043.75 0.2662 0.2110 *

Venus 9306-07-30 15:36 G 5120217.05 5120217.15 5120217.26 0.3683 0.0978

Jupiter 9306-10-26 19:26 G 5120305.20 5120305.31 5120305.43 0.0543 0.0282

Jupiter 9307-01-24 08:23 G 5120394.77 5120394.85 5120394.95 0.0544 0.0404

Venus 9308-02-11 20:52 G 5120778.24 5120778.37 5120778.50 0.3688 0.1328

Venus 9312-02-13 09:21 G 5122240.78 5122240.89 5122241.00 0.3683 0.0345

Mars 9312-03-22 18:43 G 5122279.12 5122279.28 5122279.44 0.1620 0.0203

Jupiter 9312-09-09 15:36 G 5122450.01 5122450.15 5122450.29 0.0485 0.0263

Jupiter 9312-12-08 11:31 G 5122539.86 5122539.98 5122540.10 0.0484 0.0337

Moon 9313-01-31 00:14 G 5122593.45 5122593.51 5122593.57 0.2667 0.2286

Earth 9313-01-31 00:28 G 5122593.46 5122593.52 5122593.58 0.2661 0.2216 *

Mars 9313-02-01 22:33 G 5122595.33 5122595.44 5122595.55 0.1917 0.0779

Venus 9313-08-27 22:19 G 5122802.30 5122802.43 5122802.56 0.3687 0.0988

Moon 9315-08-03 23:45 G 5123508.36 5123508.49 5123508.62 0.2676 0.1094

Earth 9315-08-04 00:00 G 5123508.36 5123508.50 5123508.63 0.2668 0.1078 *

Saturn 9317-01-07 07:26 G 5124030.69 5124030.81 5124030.94 0.0284 0.0178

Saturn 9317-04-06 01:40 G 5124119.40 5124119.57 5124119.73 0.0284 0.0049

Saturn 9317-07-03 20:09 G 5124208.18 5124208.34 5124208.50 0.0284 0.0083

Venus 9317-08-29 02:52 G 5124264.52 5124264.62 5124264.71 0.3684 0.1620

Saturn 9317-09-30 14:52 G 5124297.02 5124297.12 5124297.23 0.0283 0.0217

Jupiter 9318-08-14 22:04 G 5124615.34 5124615.42 5124615.49 0.0543 0.0450

Jupiter 9318-11-12 11:31 G 5124704.86 5124704.98 5124705.10 0.0544 0.0244

Venus 9319-03-14 00:28 G 5124826.48 5124826.52 5124826.57 0.3686 0.3440

Mars 9321-08-12 22:19 G 5125709.31 5125709.43 5125709.56 0.1617 0.0911

Mars 9322-06-25 05:31 G 5126025.67 5126025.73 5126025.79 0.1921 0.1643

Venus 9323-03-14 20:09 G 5126288.27 5126288.34 5126288.40 0.3685 0.2853

Mars 9324-05-31 00:43 G 5126731.49 5126731.53 5126731.57 0.1901 0.1767

Jupiter 9324-06-28 16:33 G 5126760.10 5126760.19 5126760.28 0.0485 0.0406

Jupiter 9324-09-26 12:00 G 5126849.85 5126850.00 5126850.16 0.0484 0.0186

Earth 9326-02-02 19:26 G 5127344.19 5127344.31 5127344.42 0.2662 0.0706

Moon 9326-02-02 19:55 G 5127344.21 5127344.33 5127344.44 0.2668 0.0638 *

Uranus 9327-10-10 23:02 G 5127959.41 5127959.46 5127959.53 0.0134 0.0120

Uranus 9328-01-07 02:38 G 5128047.53 5128047.61 5128047.71 0.0134 0.0102

Uranus 9328-04-04 06:28 G 5128135.66 5128135.77 5128135.88 0.0134 0.0084

Uranus 9328-07-01 10:04 G 5128223.80 5128223.92 5128224.04 0.0134 0.0066

Uranus 9328-09-27 13:26 G 5128311.93 5128312.06 5128312.20 0.0134 0.0049

Uranus 9328-12-24 17:02 G 5128400.08 5128400.21 5128400.35 0.0134 0.0031

Uranus 9329-03-22 20:38 G 5128488.22 5128488.36 5128488.50 0.0134 0.0014

Uranus 9329-06-19 00:00 G 5128576.36 5128576.50 5128576.64 0.0134 0.0005

Uranus 9329-09-15 03:36 G 5128664.51 5128664.65 5128664.78 0.0134 0.0022

Uranus 9329-12-12 06:57 G 5128752.66 5128752.79 5128752.92 0.0134 0.0039

Uranus 9330-03-10 10:19 G 5128840.81 5128840.93 5128841.06 0.0134 0.0056

Uranus 9330-06-06 13:40 G 5128928.96 5128929.07 5128929.19 0.0134 0.0074

Jupiter 9330-08-31 14:23 G 5129014.96 5129015.10 5129015.24 0.0544 0.0083

Uranus 9330-09-02 17:02 G 5129017.12 5129017.21 5129017.32 0.0135 0.0091

Uranus 9330-11-29 20:23 G 5129105.28 5129105.35 5129105.44 0.0135 0.0108

Mars 9331-01-03 02:38 G 5129139.58 5129139.61 5129139.63 0.1614 0.1586

Uranus 9331-02-25 23:45 G 5129193.45 5129193.49 5129193.55 0.0135 0.0125

Saturn 9332-02-07 10:19 G 5129539.82 5129539.93 5129540.04 0.0275 0.0177

Saturn 9332-05-05 23:45 G 5129628.35 5129628.49 5129628.63 0.0275 0.0072

Saturn 9332-08-02 12:43 G 5129716.89 5129717.03 5129717.18 0.0275 0.0034

Saturn 9332-10-30 01:40 G 5129805.45 5129805.57 5129805.70 0.0276 0.0136

Mars 9332-12-09 12:43 G 5129845.95 5129846.03 5129846.12 0.1628 0.1367

Saturn 9333-01-26 14:23 G 5129894.03 5129894.10 5129894.17 0.0276 0.0238

Mars 9333-10-21 08:23 G 5130161.75 5130161.85 5130161.95 0.1907 0.0976

Jupiter 9336-07-15 12:28 G 5131159.85 5131160.02 5131160.18 0.0485 0.0037

Earth 9339-02-05 14:09 G 5132094.98 5132095.09 5132095.20 0.2664 0.0795

Moon 9339-02-05 14:52 G 5132095.01 5132095.12 5132095.22 0.2666 0.0933 *

Mars 9342-05-01 15:50 G 5133276.02 5133276.16 5133276.31 0.1624 0.0621

Jupiter 9342-06-19 16:48 G 5133325.06 5133325.20 5133325.33 0.0543 0.0089

Mars 9343-03-13 15:36 G 5133592.03 5133592.15 5133592.27 0.1912 0.0153

Saturn	9346-05-27 06:57 G	5134762.69	5134762.79	5134762.89	0.0284	0.0221	
Saturn	9346-08-24 00:57 G	5134851.39	5134851.54	5134851.70	0.0284	0.0093	
Saturn	9346-11-20 19:26 G	5134940.15	5134940.31	5134940.48	0.0284	0.0039	
Saturn	9347-02-17 14:09 G	5135028.96	5135029.09	5135029.23	0.0283	0.0172	
Jupiter	9348-05-03 13:11 G	5135469.89	5135470.05	5135470.22	0.0485	0.0111	
Moon	9348-08-01 02:09 G	5135559.46	5135559.59	5135559.72	0.2676	0.1064	
Earth	9348-08-01 02:52 G	5135559.48	5135559.62	5135559.75	0.2670	0.0909	*
Mars	9351-09-21 19:26 G	5136706.15	5136706.31	5136706.46	0.1620	0.0114	
Venus	9352-02-05 01:55 G	5136842.53	5136842.58	5136842.63	0.3682	0.3274	
Earth	9352-02-08 08:38 G	5136845.80	5136845.86	5136845.92	0.2665	0.2261	
Moon	9352-02-08 09:21 G	5136845.84	5136845.89	5136845.95	0.2661	0.2292	*
Mars	9352-08-02 22:48 G	5137022.34	5137022.45	5137022.56	0.1917	0.0691	
Jupiter	9354-04-07 18:00 G	5137635.13	5137635.25	5137635.37	0.0543	0.0280	
Jupiter	9354-07-06 06:57 G	5137724.70	5137724.79	5137724.88	0.0543	0.0404	
Venus	9357-08-20 19:55 G	5138866.24	5138866.33	5138866.43	0.3682	0.1894	
Moon	9359-02-01 05:31 G	5139395.64	5139395.73	5139395.81	0.2667	0.1872	
Earth	9359-02-01 05:31 G	5139395.65	5139395.73	5139395.81	0.2661	0.1892	*
Venus	9359-03-04 19:55 G	5139427.25	5139427.33	5139427.42	0.3688	0.2847	
Jupiter	9360-02-20 14:09 G	5139779.95	5139780.09	5139780.23	0.0485	0.0256	
Jupiter	9360-05-20 10:04 G	5139869.80	5139869.92	5139870.04	0.0485	0.0345	
Mars	9361-02-10 23:02 G	5140136.32	5140136.46	5140136.59	0.1617	0.0817	
Saturn	9361-06-26 13:26 G	5140271.96	5140272.06	5140272.16	0.0275	0.0197	
Moon	9361-08-04 06:00 G	5140310.64	5140310.75	5140310.87	0.2675	0.1574	
Earth	9361-08-04 06:00 G	5140310.64	5140310.75	5140310.87	0.2668	0.1579	*
Saturn	9361-09-23 02:52 G	5140360.49	5140360.62	5140360.76	0.0275	0.0091	
Saturn	9361-12-20 16:04 G	5140449.03	5140449.17	5140449.32	0.0276	0.0016	
Mars	9361-12-24 05:31 G	5140452.66	5140452.73	5140452.79	0.1922	0.1574	
Saturn	9362-03-19 05:02 G	5140537.59	5140537.71	5140537.84	0.0276	0.0118	
Saturn	9362-06-15 17:45 G	5140626.16	5140626.24	5140626.33	0.0276	0.0220	
Venus	9363-03-06 13:40 G	5140889.96	5140890.07	5140890.18	0.3683	0.0566	

Mars 9363-11-30 00:43 G 5141158.51 5141158.53 5141158.56 0.1901 0.1840

Venus 9364-09-17 20:52 G 5141451.24 5141451.37 5141451.51 0.3687 0.0649

Neptune 9365-11-30 07:26 G 5141889.80 5141889.81 5141889.87 0.0088 0.0086

Jupiter 9366-01-24 19:55 G 5141945.26 5141945.33 5141945.40 0.0543 0.0458

Neptune 9366-02-26 10:33 G 5141977.86 5141977.94 5141978.01 0.0088 0.0078

Jupiter 9366-04-24 09:21 G 5142034.77 5142034.89 5142035.01 0.0543 0.0235

Neptune 9366-05-25 12:57 G 5142065.94 5142066.04 5142066.14 0.0088 0.0069

Neptune 9366-08-21 15:21 G 5142154.03 5142154.14 5142154.27 0.0088 0.0061

Neptune 9366-11-17 17:45 G 5142242.12 5142242.24 5142242.39 0.0088 0.0053

Neptune 9367-02-13 20:23 G 5142330.21 5142330.35 5142330.51 0.0088 0.0045

Neptune 9367-05-12 23:16 G 5142418.31 5142418.47 5142418.62 0.0088 0.0036

Neptune 9367-08-09 01:40 G 5142506.41 5142506.57 5142506.74 0.0088 0.0028

Neptune 9367-11-05 04:19 G 5142594.52 5142594.68 5142594.85 0.0088 0.0020

Neptune 9368-02-01 06:57 G 5142682.62 5142682.79 5142682.97 0.0088 0.0011

Neptune 9368-04-29 09:36 G 5142770.73 5142770.90 5142771.08 0.0088 0.0003

Neptune 9368-07-26 12:14 G 5142858.84 5142859.01 5142859.19 0.0088 0.0006

Venus 9368-09-19 07:26 G 5142913.70 5142913.81 5142913.91 0.3684 0.0754

Neptune 9368-10-22 14:52 G 5142946.95 5142947.12 5142947.30 0.0088 0.0014

Uranus 9368-10-23 18:00 G 5142948.23 5142948.25 5142948.29 0.0144 0.0141

Neptune 9369-01-18 17:31 G 5143035.07 5143035.23 5143035.40 0.0088 0.0023

Uranus 9369-01-20 00:57 G 5143036.44 5143036.54 5143036.65 0.0144 0.0115

Neptune 9369-04-16 20:09 G 5143123.19 5143123.34 5143123.51 0.0088 0.0031

Uranus 9369-04-18 07:55 G 5143124.69 5143124.83 5143124.97 0.0144 0.0088

Neptune 9369-07-13 22:48 G 5143211.31 5143211.45 5143211.62 0.0088 0.0040

Uranus 9369-07-15 14:52 G 5143212.96 5143213.12 5143213.28 0.0144 0.0061

Neptune 9369-10-10 01:40 G 5143299.43 5143299.57 5143299.72 0.0088 0.0048

Uranus 9369-10-11 21:50 G 5143301.24 5143301.41 5143301.59 0.0144 0.0033

Neptune 9370-01-06 04:19 G 5143387.55 5143387.68 5143387.82 0.0088 0.0057

Uranus 9370-01-08 05:02 G 5143389.53 5143389.71 5143389.89 0.0144 0.0006

Venus 9370-04-03 22:33 G 5143475.32 5143475.44 5143475.56 0.3687 0.1705

Neptune 9370-04-04 06:57 G 5143475.69 5143475.79 5143475.92 0.0088 0.0066

Uranus 9370-04-06 12:00 G 5143477.83 5143478.00 5143478.18 0.0144 0.0022

Neptune 9370-07-01 09:50 G 5143563.82 5143563.91 5143564.01 0.0088 0.0074

Uranus 9370-07-03 19:11 G 5143566.13 5143566.30 5143566.47 0.0144 0.0050

Mars 9370-07-04 03:07 G 5143566.57 5143566.63 5143566.68 0.1613 0.1503

Neptune 9370-09-27 12:28 G 5143651.98 5143652.02 5143652.08 0.0088 0.0083

Uranus 9370-09-30 02:09 G 5143654.45 5143654.59 5143654.75 0.0144 0.0078

Uranus 9370-12-27 09:21 G 5143742.78 5143742.89 5143743.03 0.0144 0.0106

Uranus 9371-03-25 16:48 G 5143831.15 5143831.20 5143831.27 0.0144 0.0134

Jupiter 9371-12-09 14:38 G 5144090.03 5144090.11 5144090.20 0.0485 0.0404

Earth 9372-02-04 00:14 G 5144146.40 5144146.51 5144146.63 0.2662 0.0387

Moon 9372-02-04 00:43 G 5144146.42 5144146.53 5144146.65 0.2668 0.0345 *

Jupiter 9372-03-08 10:04 G 5144179.77 5144179.92 5144180.08 0.0485 0.0188

Mars 9372-06-09 13:26 G 5144272.99 5144273.06 5144273.13 0.1628 0.1467

Mars 9373-04-21 08:23 G 5144588.75 5144588.85 5144588.95 0.1907 0.1054

Venus 9374-04-05 00:43 G 5144937.44 5144937.53 5144937.62 0.3684 0.2006

Saturn 9375-10-14 08:38 G 5145494.79 5145494.86 5145494.94 0.0284 0.0248

Saturn 9376-01-11 02:38 G 5145583.46 5145583.61 5145583.76 0.0284 0.0121

Saturn 9376-04-08 20:52 G 5145672.20 5145672.37 5145672.53 0.0284 0.0010

Saturn 9376-07-06 15:21 G 5145761.00 5145761.14 5145761.29 0.0283 0.0143

Saturn 9376-10-03 10:19 G 5145849.91 5145849.93 5145849.97 0.0283 0.0277

Jupiter 9378-02-10 12:00 G 5146344.87 5146345.00 5146345.14 0.0544 0.0073

Venus 9379-10-19 18:00 G 5146961.20 5146961.25 5146961.30 0.3685 0.3222

Mars 9381-10-30 16:19 G 5147703.04 5147703.18 5147703.33 0.1624 0.0707

Mars 9382-09-11 15:50 G 5148019.04 5148019.16 5148019.28 0.1912 0.0242

Jupiter 9383-12-26 10:48 G 5148489.78 5148489.95 5148490.11 0.0485 0.0040

Earth 9385-02-05 18:57 G 5148897.19 5148897.29 5148897.40 0.2664 0.1108

Moon 9385-02-05 19:55 G 5148897.22 5148897.33 5148897.43 0.2664 0.1207 *

Jupiter 9389-11-29 14:52 G 5150654.98 5150655.12 5150655.25 0.0544 0.0093

Saturn 9390-11-13 14:09 G 5151004.02 5151004.09 5151004.17 0.0274 0.0235

Saturn	9391-02-10 03:50 G	5151092.53	5151092.66	5151092.79	0.0275	0.0128	
Mars	9391-03-22 19:55 G	5151133.17	5151133.33	5151133.49	0.1620	0.0041	
Saturn	9391-05-09 17:16 G	5151181.07	5151181.22	5151181.36	0.0275	0.0023	
Saturn	9391-08-06 06:14 G	5151269.62	5151269.76	5151269.90	0.0275	0.0082	
Saturn	9391-11-02 18:57 G	5151358.19	5151358.29	5151358.40	0.0276	0.0184	
Mars	9392-02-01 22:48 G	5151449.34	5151449.45	5151449.56	0.1917	0.0612	
Pluto	9392-08-10 10:33 G	5151639.88	5151639.94	5151640.01	0.0071	0.0062	
Pluto	9392-11-06 11:16 G	5151727.89	5151727.97	5151728.06	0.0071	0.0053	
Pluto	9393-02-02 12:00 G	5151815.90	5151816.00	5151816.11	0.0071	0.0044	
Pluto	9393-05-01 12:43 G	5151903.92	5151904.03	5151904.16	0.0071	0.0036	
Pluto	9393-07-28 13:26 G	5151991.94	5151992.06	5151992.20	0.0071	0.0027	
Pluto	9393-10-24 14:23 G	5152079.97	5152080.10	5152080.23	0.0071	0.0017	
Pluto	9394-01-20 15:07 G	5152168.00	5152168.13	5152168.27	0.0072	0.0008	
Pluto	9394-04-18 16:04 G	5152256.03	5152256.17	5152256.30	0.0072	0.0002	
Pluto	9394-07-15 16:48 G	5152344.06	5152344.20	5152344.33	0.0072	0.0011	
Moon	9394-08-02 08:09 G	5152361.70	5152361.84	5152361.99	0.2676	0.0433	
Earth	9394-08-02 08:52 G	5152361.73	5152361.87	5152362.01	0.2670	0.0424	*
Pluto	9394-10-11 17:31 G	5152432.10	5152432.23	5152432.36	0.0072	0.0020	
Pluto	9395-01-07 18:14 G	5152520.14	5152520.26	5152520.39	0.0072	0.0030	
Pluto	9395-04-05 18:57 G	5152608.18	5152608.29	5152608.41	0.0072	0.0040	
Pluto	9395-07-02 19:40 G	5152696.23	5152696.32	5152696.43	0.0072	0.0050	
Pluto	9395-09-28 20:52 G	5152784.29	5152784.37	5152784.45	0.0072	0.0059	
Jupiter	9395-10-14 11:16 G	5152799.81	5152799.97	5152800.13	0.0485	0.0112	
Pluto	9395-12-25 21:21 G	5152872.36	5152872.39	5152872.44	0.0073	0.0069	
Earth	9398-02-08 13:40 G	5153648.04	5153648.07	5153648.10	0.2665	0.2565	
Mars	9400-08-12 23:31 G	5154563.34	5154563.48	5154563.62	0.1617	0.0728	
Mars	9401-06-25 05:45 G	5154879.66	5154879.74	5154879.81	0.1921	0.1478	
Jupiter	9401-09-18 17:02 G	5154965.09	5154965.21	5154965.33	0.0543	0.0265	
Jupiter	9401-12-17 06:14 G	5155054.67	5155054.76	5155054.84	0.0543	0.0419	
Earth	9405-02-02 10:33 G	5156197.84	5156197.94	5156198.03	0.2661	0.1574	

Moon	9405-02-02 10:33 G	5156197.85	5156197.94	5156198.03	0.2668	0.1621 *
Saturn	9405-05-31 01:55 G	5156315.46	5156315.58	5156315.72	0.0284	0.0165
Saturn	9405-08-27 20:09 G	5156404.18	5156404.34	5156404.51	0.0284	0.0035
Saturn	9405-11-24 14:52 G	5156492.96	5156493.12	5156493.27	0.0284	0.0098
Saturn	9406-02-21 09:36 G	5156581.81	5156581.90	5156582.00	0.0283	0.0232
Jupiter	9407-08-03 12:14 G	5157109.87	5157110.01	5157110.15	0.0485	0.0255
Earth	9407-08-06 12:14 G	5157112.92	5157113.01	5157113.10	0.2668	0.2076
Moon	9407-08-06 12:28 G	5157112.93	5157113.02	5157113.11	0.2674	0.2089 *
Jupiter	9407-11-01 08:09 G	5157199.72	5157199.84	5157199.96	0.0485	0.0345
Venus	9408-09-12 00:14 G	5157515.44	5157515.51	5157515.58	0.3682	0.2842
Mars	9410-01-03 03:36 G	5157993.58	5157993.65	5157993.72	0.1614	0.1413
Uranus	9411-11-01 05:45 G	5158660.69	5158660.74	5158660.82	0.0134	0.0117
Mars	9411-12-10 13:55 G	5158700.04	5158700.08	5158700.12	0.1628	0.1561
Uranus	9412-01-28 09:36 G	5158748.81	5158748.90	5158749.00	0.0134	0.0099
Uranus	9412-04-25 13:11 G	5158836.94	5158837.05	5158837.16	0.0134	0.0081
Uranus	9412-07-22 16:48 G	5158925.08	5158925.20	5158925.32	0.0134	0.0063
Uranus	9412-10-18 20:09 G	5159013.22	5159013.34	5159013.48	0.0134	0.0046
Mars	9412-10-21 08:23 G	5159015.76	5159015.85	5159015.95	0.1907	0.1136
Uranus	9413-01-14 23:45 G	5159101.36	5159101.49	5159101.63	0.0134	0.0029
Uranus	9413-04-13 03:21 G	5159189.50	5159189.64	5159189.78	0.0134	0.0011
Jupiter	9413-07-07 18:14 G	5159275.19	5159275.26	5159275.34	0.0542	0.0457
Uranus	9413-07-10 06:57 G	5159277.65	5159277.79	5159277.93	0.0134	0.0007
Jupiter	9413-10-05 07:55 G	5159364.70	5159364.83	5159364.95	0.0543	0.0236
Uranus	9413-10-06 10:19 G	5159365.79	5159365.93	5159366.07	0.0134	0.0024
Uranus	9414-01-02 13:40 G	5159453.94	5159454.07	5159454.21	0.0134	0.0042
Venus	9414-03-28 18:00 G	5159539.15	5159539.25	5159539.36	0.3683	0.1473
Uranus	9414-03-31 17:16 G	5159542.09	5159542.22	5159542.34	0.0134	0.0059
Uranus	9414-06-27 20:23 G	5159630.25	5159630.35	5159630.47	0.0135	0.0077
Uranus	9414-09-23 23:45 G	5159718.41	5159718.49	5159718.60	0.0135	0.0094
Uranus	9414-12-21 03:21 G	5159806.57	5159806.64	5159806.72	0.0135	0.0110

Uranus 9415-03-19 06:28 G 5159894.74 5159894.77 5159894.83 0.0135 0.0128

Venus 9415-10-10 19:55 G 5160100.22 5160100.33 5160100.44 0.3688 0.2191

Earth 9418-02-05 05:16 G 5160948.61 5160948.72 5160948.84 0.2663 0.0073

Moon 9418-02-05 05:45 G 5160948.63 5160948.74 5160948.86 0.2668 0.0093 *

Jupiter 9419-05-22 12:57 G 5161419.96 5161420.04 5161420.14 0.0485 0.0401

Jupiter 9419-08-20 08:23 G 5161509.70 5161509.85 5161510.01 0.0485 0.0194

Venus 9419-10-12 11:45 G 5161562.88 5161562.99 5161563.10 0.3683 0.0148

Saturn 9420-04-02 17:16 G 5161736.18 5161736.22 5161736.28 0.0275 0.0255

Saturn 9420-06-30 06:57 G 5161824.67 5161824.79 5161824.92 0.0275 0.0148

Saturn 9420-09-26 20:23 G 5161913.21 5161913.35 5161913.49 0.0276 0.0042

Saturn 9420-12-24 09:36 G 5162001.76 5162001.90 5162002.04 0.0276 0.0063

Saturn 9421-03-22 22:19 G 5162090.32 5162090.43 5162090.55 0.0276 0.0166

Venus 9421-04-25 21:07 G 5162124.24 5162124.38 5162124.51 0.3687 0.0114

Mars 9421-05-01 17:02 G 5162130.07 5162130.21 5162130.35 0.1624 0.0805

Saturn 9421-06-19 11:16 G 5162178.93 5162178.97 5162179.00 0.0277 0.0267

Mars 9422-03-13 15:50 G 5162446.04 5162446.16 5162446.27 0.1912 0.0319

Venus 9425-04-27 05:16 G 5163586.62 5163586.72 5163586.83 0.3684 0.1145

Jupiter 9425-07-24 10:04 G 5163674.78 5163674.92 5163675.05 0.0543 0.0063

Venus 9426-11-09 22:48 G 5164148.35 5164148.45 5164148.56 0.3687 0.2441

Moon 9427-08-01 10:48 G 5164412.90 5164412.95 5164413.01 0.2674 0.2425

Earth 9427-08-01 12:00 G 5164412.94 5164413.00 5164413.07 0.2671 0.2361 *

Mars 9430-09-21 20:23 G 5165560.19 5165560.35 5165560.51 0.1620 0.0072

Venus 9430-11-10 22:33 G 5165610.36 5165610.44 5165610.52 0.3685 0.2382

Earth 9431-02-08 00:00 G 5165699.41 5165699.50 5165699.60 0.2664 0.1423

Moon 9431-02-08 00:43 G 5165699.44 5165699.53 5165699.63 0.2663 0.1523 *

Jupiter 9431-06-08 08:38 G 5165819.70 5165819.86 5165820.03 0.0485 0.0039

Mars 9431-08-03 23:02 G 5165876.34 5165876.46 5165876.57 0.1917 0.0530

Saturn 9434-10-18 04:19 G 5167047.56 5167047.68 5167047.80 0.0284 0.0187

Saturn 9435-01-14 22:19 G 5167136.27 5167136.43 5167136.59 0.0284 0.0059

Saturn 9435-04-13 16:48 G 5167225.04 5167225.20 5167225.36 0.0284 0.0072

Saturn 9435-07-11 11:31 G 5167313.87 5167313.98 5167314.10 0.0283 0.0206

Venus 9436-05-26 15:50 G 5167634.14 5167634.16 5167634.18 0.3685 0.3594

Jupiter 9437-05-12 12:28 G 5167984.89 5167985.02 5167985.16 0.0544 0.0106

Mars 9440-02-12 00:00 G 5168990.36 5168990.50 5168990.64 0.1617 0.0644

Moon 9440-08-03 14:23 G 5169163.96 5169164.10 5169164.25 0.2676 0.0096

Earth 9440-08-03 14:52 G 5169163.98 5169164.12 5169164.27 0.2669 0.0112 *

Mars 9440-12-24 05:45 G 5169306.66 5169306.74 5169306.82 0.1921 0.1395

Jupiter 9443-03-27 09:21 G 5170129.73 5170129.89 5170130.06 0.0485 0.0109

Neptune 9448-06-08 13:11 G 5172030.01 5172030.05 5172030.09 0.0089 0.0086

Neptune 9448-09-04 14:38 G 5172118.05 5172118.11 5172118.19 0.0089 0.0078

Neptune 9448-12-01 16:33 G 5172206.11 5172206.19 5172206.29 0.0089 0.0071

Neptune 9449-02-27 18:43 G 5172294.17 5172294.28 5172294.38 0.0089 0.0063

Jupiter 9449-02-28 15:07 G 5172295.01 5172295.13 5172295.25 0.0543 0.0272

Neptune 9449-05-26 20:09 G 5172382.24 5172382.34 5172382.47 0.0089 0.0056

Jupiter 9449-05-29 04:19 G 5172384.59 5172384.68 5172384.76 0.0544 0.0414

Mars 9449-07-04 04:04 G 5172420.59 5172420.67 5172420.76 0.1614 0.1326

Neptune 9449-08-22 22:04 G 5172470.30 5172470.42 5172470.55 0.0089 0.0048

Saturn 9449-11-17 08:09 G 5172556.74 5172556.84 5172556.95 0.0275 0.0183

Neptune 9449-11-18 23:45 G 5172558.37 5172558.49 5172558.63 0.0089 0.0040

Saturn 9450-02-13 21:36 G 5172645.26 5172645.40 5172645.54 0.0275 0.0077

Neptune 9450-02-15 01:40 G 5172646.44 5172646.57 5172646.71 0.0089 0.0032

Saturn 9450-05-13 10:48 G 5172733.81 5172733.95 5172734.10 0.0275 0.0029

Neptune 9450-05-14 03:36 G 5172734.51 5172734.65 5172734.79 0.0089 0.0025

Saturn 9450-08-09 23:45 G 5172822.37 5172822.49 5172822.62 0.0276 0.0131

Neptune 9450-08-10 05:16 G 5172822.58 5172822.72 5172822.87 0.0089 0.0017 *

Neptune 9450-11-06 07:11 G 5172910.65 5172910.80 5172910.94 0.0089 0.0010

Saturn 9450-11-06 12:28 G 5172910.95 5172911.02 5172911.10 0.0276 0.0233

Neptune 9451-02-02 08:52 G 5172998.72 5172998.87 5172999.02 0.0089 0.0002

Earth 9451-02-03 15:21 G 5173000.04 5173000.14 5173000.25 0.2661 0.1259

Moon 9451-02-03 15:36 G 5173000.05 5173000.15 5173000.26 0.2668 0.1164 *

Neptune 9451-05-01 10:33 G 5173086.80 5173086.94 5173087.09 0.0089 0.0006

Neptune 9451-07-28 12:14 G 5173174.87 5173175.01 5173175.16 0.0089 0.0013

Neptune 9451-10-24 13:55 G 5173262.95 5173263.08 5173263.23 0.0089 0.0021

Neptune 9452-01-20 15:50 G 5173351.02 5173351.16 5173351.30 0.0089 0.0028

Neptune 9452-04-17 17:16 G 5173439.10 5173439.22 5173439.36 0.0089 0.0035

Mars 9452-04-21 08:38 G 5173442.77 5173442.86 5173442.95 0.1906 0.1219

Neptune 9452-07-14 18:57 G 5173527.18 5173527.29 5173527.43 0.0089 0.0043

Neptune 9452-10-10 20:52 G 5173615.25 5173615.37 5173615.49 0.0089 0.0050

Uranus 9452-11-14 00:43 G 5173649.49 5173649.53 5173649.60 0.0144 0.0137

Neptune 9453-01-06 22:33 G 5173703.33 5173703.44 5173703.55 0.0089 0.0057

Uranus 9453-02-10 07:55 G 5173737.72 5173737.83 5173737.95 0.0144 0.0109

Neptune 9453-04-05 00:00 G 5173791.41 5173791.50 5173791.61 0.0089 0.0065

Uranus 9453-05-09 14:52 G 5173825.98 5173826.12 5173826.26 0.0144 0.0082

Neptune 9453-07-02 01:40 G 5173879.50 5173879.57 5173879.67 0.0089 0.0072

Uranus 9453-08-05 21:50 G 5173914.25 5173914.41 5173914.57 0.0144 0.0055

Earth 9453-08-06 18:14 G 5173915.23 5173915.26 5173915.30 0.2668 0.2585

Neptune 9453-09-28 03:36 G 5173967.59 5173967.65 5173967.72 0.0089 0.0079

Uranus 9453-11-02 04:48 G 5174002.53 5174002.70 5174002.88 0.0144 0.0028

Neptune 9453-12-25 05:16 G 5174055.68 5174055.72 5174055.76 0.0089 0.0086

Uranus 9454-01-29 11:45 G 5174090.82 5174090.99 5174091.17 0.0144 0.0004

Uranus 9454-04-27 18:57 G 5174179.12 5174179.29 5174179.47 0.0144 0.0027

Uranus 9454-07-25 01:55 G 5174267.42 5174267.58 5174267.76 0.0144 0.0055

Uranus 9454-10-21 09:07 G 5174355.74 5174355.88 5174356.04 0.0144 0.0083

Jupiter 9455-01-13 10:04 G 5174439.78 5174439.92 5174440.06 0.0485 0.0258

Uranus 9455-01-17 16:19 G 5174444.08 5174444.18 5174444.31 0.0144 0.0111

Jupiter 9455-04-13 05:45 G 5174529.63 5174529.74 5174529.86 0.0485 0.0341

Uranus 9455-04-15 23:31 G 5174532.45 5174532.48 5174532.54 0.0144 0.0139

Mars 9460-10-30 17:31 G 5176557.10 5176557.23 5176557.37 0.1624 0.0899

Jupiter 9460-12-17 17:16 G 5176605.14 5176605.22 5176605.30 0.0543 0.0446

Jupiter 9461-03-17 06:43 G 5176694.66 5176694.78 5176694.90 0.0543 0.0248

Mars	9461-09-11 15:50 G	5176873.04	5176873.16	5176873.28	0.1912	0.0397
Earth	9464-02-06 10:19 G	5177750.81	5177750.93	5177751.04	0.2663	0.0255
Moon	9464-02-06 11:02 G	5177750.84	5177750.96	5177751.07	0.2666	0.0308 *
Saturn	9464-03-06 03:36 G	5177779.56	5177779.65	5177779.75	0.0284	0.0232
Saturn	9464-06-02 21:36 G	5177868.25	5177868.40	5177868.56	0.0284	0.0104
Saturn	9464-08-30 16:04 G	5177957.00	5177957.17	5177957.33	0.0284	0.0028
Saturn	9464-11-27 10:33 G	5178045.81	5178045.94	5178046.08	0.0283	0.0160
Venus	9465-04-18 22:19 G	5178188.34	5178188.43	5178188.51	0.3682	0.2406
Venus	9466-10-31 19:11 G	5178749.29	5178749.30	5178749.30	0.3688	0.3673
Jupiter	9466-11-01 11:02 G	5178749.87	5178749.96	5178750.05	0.0485	0.0401
Jupiter	9467-01-30 06:28 G	5178839.61	5178839.77	5178839.92	0.0485	0.0192
Mars	9470-03-22 20:52 G	5179987.21	5179987.37	5179987.53	0.1620	0.0165
Venus	9470-11-02 16:04 G	5180212.06	5180212.17	5180212.28	0.3683	0.1060
Mars	9471-02-01 23:02 G	5180303.34	5180303.46	5180303.58	0.1917	0.0445
Venus	9472-05-16 19:55 G	5180773.20	5180773.33	5180773.45	0.3688	0.1537
Jupiter	9473-01-03 08:23 G	5181004.71	5181004.85	5181004.99	0.0543	0.0063
Moon	9473-08-01 17:02 G	5181215.13	5181215.21	5181215.30	0.2676	0.2090
Earth	9473-08-01 18:00 G	5181215.15	5181215.25	5181215.36	0.2671	0.1881 *
Venus	9476-05-18 09:50 G	5182235.80	5182235.91	5182236.02	0.3684	0.0266
Earth	9477-02-08 05:02 G	5182501.62	5182501.71	5182501.79	0.2664	0.1732
Moon	9477-02-08 05:45 G	5182501.66	5182501.74	5182501.82	0.2663	0.1865 *
Venus	9477-11-30 21:07 G	5182797.25	5182797.38	5182797.52	0.3687	0.0757
Pluto	9478-01-05 04:04 G	5182832.67	5182832.67	5182832.69	0.0073	0.0073
Pluto	9478-04-03 06:28 G	5182920.67	5182920.77	5182920.88	0.0073	0.0059
Pluto	9478-06-30 08:23 G	5183008.72	5183008.85	5183009.01	0.0073	0.0046
Pluto	9478-09-26 10:33 G	5183096.79	5183096.94	5183097.12	0.0073	0.0033
Jupiter	9478-11-18 06:57 G	5183149.62	5183149.79	5183149.96	0.0485	0.0041
Pluto	9478-12-23 12:57 G	5183184.86	5183185.04	5183185.23	0.0073	0.0019
Pluto	9479-03-21 15:07 G	5183272.95	5183273.13	5183273.32	0.0072	0.0006
Saturn	9479-04-06 11:02 G	5183288.87	5183288.96	5183289.06	0.0275	0.0205

Pluto	9479-06-17 17:16 G	5183361.04	5183361.22	5183361.41	0.0072	0.0007
Saturn	9479-07-04 00:43 G	5183377.39	5183377.53	5183377.67	0.0276	0.0097
Mars	9479-08-13 00:43 G	5183417.38	5183417.53	5183417.67	0.1617	0.0550
Pluto	9479-09-13 19:26 G	5183449.13	5183449.31	5183449.49	0.0072	0.0020
Saturn	9479-09-30 13:55 G	5183465.94	5183466.08	5183466.23	0.0276	0.0009
Pluto	9479-12-10 21:21 G	5183537.23	5183537.39	5183537.56	0.0072	0.0033
Saturn	9479-12-28 02:52 G	5183554.50	5183554.62	5183554.76	0.0276	0.0113
Pluto	9480-03-07 23:16 G	5183625.34	5183625.47	5183625.63	0.0072	0.0046
Saturn	9480-03-25 15:50 G	5183643.07	5183643.16	5183643.25	0.0276	0.0214
Pluto	9480-06-04 01:11 G	5183713.47	5183713.55	5183713.68	0.0072	0.0059
Mars	9480-06-24 05:45 G	5183733.66	5183733.74	5183733.83	0.1921	0.1318
Pluto	9480-08-31 03:36 G	5183801.64	5183801.65	5183801.68	0.0072	0.0071
Venus	9481-12-02 03:07 G	5184259.54	5184259.63	5184259.73	0.3684	0.1537
Venus	9483-06-16 23:16 G	5184821.40	5184821.47	5184821.53	0.3686	0.3176
Moon	9484-02-02 01:11 G	5185051.51	5185051.55	5185051.59	0.2666	0.2467
Earth	9484-02-02 01:26 G	5185051.52	5185051.56	5185051.60	0.2660	0.2464 *
Jupiter	9484-10-22 10:19 G	5185314.80	5185314.93	5185315.07	0.0543	0.0115
Moon	9486-08-04 20:38 G	5185966.22	5185966.36	5185966.50	0.2676	0.0593
Earth	9486-08-04 21:07 G	5185966.23	5185966.38	5185966.52	0.2669	0.0559 *
Venus	9487-06-17 20:38 G	5186283.28	5186283.36	5186283.43	0.3685	0.2767
Mars	9489-01-02 04:33 G	5186847.59	5186847.69	5186847.78	0.1614	0.1247
Jupiter	9490-09-06 07:11 G	5187459.64	5187459.80	5187459.96	0.0485	0.0111
Mars	9491-10-21 08:23 G	5187869.77	5187869.85	5187869.94	0.1907	0.1293
Saturn	9493-07-24 06:28 G	5188511.70	5188511.77	5188511.84	0.0284	0.0252
Saturn	9493-10-21 00:14 G	5188600.37	5188600.51	5188600.66	0.0284	0.0125
Saturn	9494-01-17 18:28 G	5188689.11	5188689.27	5188689.44	0.0284	0.0006
Saturn	9494-04-16 12:57 G	5188777.90	5188778.04	5188778.19	0.0283	0.0138
Saturn	9494-07-14 07:55 G	5188866.79	5188866.83	5188866.88	0.0283	0.0272
Uranus	9495-08-25 09:21 G	5189273.87	5189273.89	5189273.92	0.0134	0.0131
Uranus	9495-11-21 12:57 G	5189361.97	5189362.04	5189362.12	0.0134	0.0113

Uranus 9496-02-17 16:33 G 5189450.09 5189450.19 5189450.29 0.0134 0.0095

Uranus 9496-05-15 19:55 G 5189538.23 5189538.33 5189538.46 0.0134 0.0078

Jupiter 9496-08-10 12:28 G 5189624.91 5189625.02 5189625.14 0.0543 0.0288

Uranus 9496-08-11 23:45 G 5189626.36 5189626.49 5189626.62 0.0134 0.0060

Jupiter 9496-11-08 01:40 G 5189714.49 5189714.57 5189714.67 0.0544 0.0401

Uranus 9496-11-08 03:21 G 5189714.50 5189714.64 5189714.77 0.0134 0.0042 *

Earth 9497-02-03 20:23 G 5189802.24 5189802.35 5189802.46 0.2661 0.0936

Moon 9497-02-03 20:38 G 5189802.26 5189802.36 5189802.47 0.2668 0.0972 *

Uranus 9497-02-04 06:43 G 5189802.65 5189802.78 5189802.92 0.0134 0.0025

Uranus 9497-05-03 10:19 G 5189890.79 5189890.93 5189891.07 0.0134 0.0007

Uranus 9497-07-30 13:55 G 5189978.94 5189979.08 5189979.22 0.0134 0.0011

Uranus 9497-10-26 17:16 G 5190067.09 5190067.22 5190067.36 0.0134 0.0028

Uranus 9498-01-22 20:38 G 5190155.23 5190155.36 5190155.50 0.0134 0.0045

Uranus 9498-04-21 00:00 G 5190243.39 5190243.50 5190243.63 0.0135 0.0063

Uranus 9498-07-18 03:36 G 5190331.54 5190331.65 5190331.76 0.0135 0.0080

Uranus 9498-10-14 06:57 G 5190419.70 5190419.79 5190419.89 0.0135 0.0097

Uranus 9499-01-10 10:19 G 5190507.86 5190507.93 5190508.01 0.0135 0.0114

Uranus 9499-04-08 13:40 G 5190596.05 5190596.07 5190596.11 0.0135 0.0131

Mars 9500-05-01 18:00 G 5190984.12 5190984.25 5190984.38 0.1624 0.0985

Mars 9501-03-13 16:04 G 5191300.05 5191300.17 5191300.28 0.1912 0.0486

Jupiter 9502-06-26 08:09 G 5191769.70 5191769.84 5191769.98 0.0485 0.0256

Jupiter 9502-09-24 03:50 G 5191859.55 5191859.66 5191859.78 0.0484 0.0342

Jupiter 9508-05-30 15:07 G 5193935.05 5193935.13 5193935.20 0.0543 0.0455

Saturn 9508-08-24 12:28 G 5194020.95 5194021.02 5194021.10 0.0274 0.0238

Jupiter 9508-08-28 04:48 G 5194024.57 5194024.70 5194024.82 0.0544 0.0240

Saturn 9508-11-21 02:09 G 5194109.46 5194109.59 5194109.72 0.0275 0.0131

Saturn 9509-02-17 15:36 G 5194198.00 5194198.15 5194198.29 0.0275 0.0026

Saturn 9509-05-17 04:33 G 5194286.55 5194286.69 5194286.83 0.0275 0.0079

Saturn 9509-08-13 17:31 G 5194375.12 5194375.23 5194375.34 0.0276 0.0181

Mars 9509-09-21 21:36 G 5194414.24 5194414.40 5194414.55 0.1621 0.0260

Earth 9510-02-07 15:21 G 5194553.02 5194553.14 5194553.25 0.2663 0.0570

Moon 9510-02-07 16:04 G 5194553.06 5194553.17 5194553.28 0.2665 0.0736 *

Mars 9510-08-03 23:02 G 5194730.35 5194730.46 5194730.58 0.1917 0.0366

Jupiter 9514-04-14 08:52 G 5196079.78 5196079.87 5196079.96 0.0485 0.0403

Jupiter 9514-07-13 04:04 G 5196169.52 5196169.67 5196169.83 0.0485 0.0188

Venus 9516-05-11 02:23 G 5196837.55 5196837.60 5196837.64 0.3682 0.3369

Mars 9519-02-12 01:11 G 5197844.39 5197844.55 5197844.70 0.1617 0.0465

Moon 9519-08-03 23:02 G 5198017.35 5198017.46 5198017.58 0.2676 0.1468

Earth 9519-08-04 00:14 G 5198017.38 5198017.51 5198017.63 0.2671 0.1399 *

Mars 9519-12-25 06:00 G 5198160.66 5198160.75 5198160.84 0.1921 0.1230

Jupiter 9520-06-16 07:11 G 5198334.67 5198334.80 5198334.94 0.0543 0.0074

Venus 9521-11-24 20:23 G 5198861.25 5198861.35 5198861.44 0.3683 0.1989

Earth 9523-02-10 09:50 G 5199303.84 5199303.91 5199303.99 0.2664 0.2044

Moon 9523-02-10 10:48 G 5199303.88 5199303.95 5199304.01 0.2663 0.2110 *

Saturn 9523-03-10 23:31 G 5199332.35 5199332.48 5199332.61 0.0284 0.0170

Saturn 9523-06-07 17:31 G 5199421.07 5199421.23 5199421.40 0.0284 0.0041

Venus 9523-06-08 18:57 G 5199422.21 5199422.29 5199422.36 0.3688 0.3040

Saturn 9523-09-04 12:00 G 5199509.85 5199510.00 5199510.16 0.0284 0.0091

Saturn 9523-12-02 06:57 G 5199598.69 5199598.79 5199598.89 0.0283 0.0225

Jupiter 9526-05-01 04:48 G 5200479.54 5200479.70 5200479.87 0.0485 0.0040

Venus 9527-06-10 14:09 G 5200884.98 5200885.09 5200885.20 0.3683 0.0647

Mars 9528-07-04 05:02 G 5201274.61 5201274.71 5201274.82 0.1614 0.1153

Venus 9528-12-22 19:55 G 5201446.20 5201446.33 5201446.46 0.3687 0.0857

Moon 9530-02-03 06:28 G 5201853.70 5201853.77 5201853.83 0.2667 0.2197

Earth 9530-02-03 06:28 G 5201853.70 5201853.77 5201853.84 0.2660 0.2139 *

Neptune 9530-08-29 07:11 G 5202060.75 5202060.80 5202060.87 0.0088 0.0081

Neptune 9530-11-25 09:36 G 5202148.82 5202148.90 5202149.01 0.0088 0.0073

Neptune 9531-02-21 12:00 G 5202236.91 5202237.00 5202237.14 0.0088 0.0065

Mars 9531-04-22 08:38 G 5202296.78 5202296.86 5202296.94 0.1906 0.1380

Neptune 9531-05-20 15:07 G 5202325.00 5202325.13 5202325.26 0.0088 0.0056

Neptune 9531-08-16 17:31 G 5202413.09 5202413.23 5202413.38 0.0088 0.0048

Neptune 9531-11-12 19:55 G 5202501.19 5202501.33 5202501.49 0.0088 0.0040

Neptune 9532-02-08 22:33 G 5202589.29 5202589.44 5202589.61 0.0088 0.0032

Jupiter 9532-04-04 08:52 G 5202644.74 5202644.87 5202645.01 0.0543 0.0111

Neptune 9532-05-07 01:11 G 5202677.39 5202677.55 5202677.72 0.0088 0.0023

Neptune 9532-08-03 03:50 G 5202765.49 5202765.66 5202765.83 0.0088 0.0015

Moon 9532-08-06 03:07 G 5202768.50 5202768.63 5202768.76 0.2676 0.0971

Earth 9532-08-06 03:07 G 5202768.50 5202768.63 5202768.77 0.2669 0.1061 *

Neptune 9532-10-30 06:28 G 5202853.60 5202853.77 5202853.94 0.0088 0.0007

Venus 9532-12-24 07:40 G 5202908.72 5202908.82 5202908.93 0.3684 0.0670

Neptune 9533-01-26 09:07 G 5202941.71 5202941.88 5202942.05 0.0088 0.0002

Neptune 9533-04-24 11:45 G 5203029.82 5203029.99 5203030.16 0.0088 0.0010

Neptune 9533-07-21 14:23 G 5203117.93 5203118.10 5203118.27 0.0088 0.0019

Neptune 9533-10-17 17:02 G 5203206.05 5203206.21 5203206.38 0.0088 0.0027

Neptune 9534-01-13 19:40 G 5203294.17 5203294.32 5203294.48 0.0088 0.0036

Neptune 9534-04-11 22:33 G 5203382.29 5203382.44 5203382.59 0.0088 0.0044

Venus 9534-07-08 21:21 G 5203470.26 5203470.39 5203470.52 0.3687 0.1464

Neptune 9534-07-09 00:57 G 5203470.41 5203470.54 5203470.69 0.0088 0.0053 *

Neptune 9534-10-05 03:36 G 5203558.54 5203558.65 5203558.78 0.0088 0.0062

Neptune 9535-01-01 06:28 G 5203646.67 5203646.77 5203646.88 0.0088 0.0070

Neptune 9535-03-30 09:07 G 5203734.81 5203734.88 5203734.96 0.0088 0.0079

Neptune 9535-06-26 11:45 G 5203822.99 5203822.99 5203823.01 0.0088 0.0088

Uranus 9536-12-05 07:55 G 5204350.77 5204350.83 5204350.91 0.0144 0.0130

Uranus 9537-03-03 14:52 G 5204439.01 5204439.12 5204439.25 0.0144 0.0104

Uranus 9537-05-30 21:50 G 5204527.27 5204527.41 5204527.56 0.0144 0.0077

Uranus 9537-08-27 04:48 G 5204615.54 5204615.70 5204615.87 0.0144 0.0050

Uranus 9537-11-23 12:00 G 5204703.82 5204704.00 5204704.17 0.0144 0.0022

Saturn 9538-01-11 15:07 G 5204753.09 5204753.13 5204753.18 0.0275 0.0262

Jupiter 9538-02-17 05:31 G 5204789.56 5204789.73 5204789.89 0.0485 0.0110

Uranus 9538-02-19 18:57 G 5204792.11 5204792.29 5204792.47 0.0144 0.0005

Saturn 9538-04-10 04:48 G 5204841.58 5204841.70 5204841.83 0.0275 0.0154

Uranus 9538-05-19 01:55 G 5204880.41 5204880.58 5204880.76 0.0144 0.0033

Saturn 9538-07-07 18:14 G 5204930.12 5204930.26 5204930.41 0.0276 0.0048

Venus 9538-07-10 01:11 G 5204932.46 5204932.55 5204932.64 0.3684 0.1917

Uranus 9538-08-15 09:07 G 5204968.72 5204968.88 5204969.05 0.0144 0.0061

Saturn 9538-10-04 07:26 G 5205018.67 5205018.81 5205018.96 0.0276 0.0058

Uranus 9538-11-11 16:04 G 5205057.04 5205057.17 5205057.32 0.0144 0.0089

Saturn 9538-12-31 20:23 G 5205107.24 5205107.35 5205107.47 0.0276 0.0160

Uranus 9539-02-07 23:16 G 5205145.38 5205145.47 5205145.59 0.0144 0.0117

Saturn 9539-03-30 09:07 G 5205195.84 5205195.88 5205195.93 0.0277 0.0262

Mars 9539-10-31 18:43 G 5205411.16 5205411.28 5205411.40 0.1624 0.1088

Mars 9540-09-11 16:04 G 5205727.05 5205727.17 5205727.28 0.1912 0.0560

Earth 9543-02-06 01:26 G 5206604.45 5206604.56 5206604.67 0.2661 0.0614

Moon 9543-02-06 01:40 G 5206604.46 5206604.57 5206604.69 0.2668 0.0519 *

Jupiter 9544-01-22 10:48 G 5206954.83 5206954.95 5206955.06 0.0543 0.0292

Venus 9544-01-23 18:28 G 5206956.21 5206956.27 5206956.32 0.3685 0.3141

Jupiter 9544-04-20 23:45 G 5207044.40 5207044.49 5207044.59 0.0543 0.0394

Mars 9549-03-22 21:50 G 5208841.26 5208841.41 5208841.57 0.1620 0.0342

Jupiter 9549-12-06 06:00 G 5209099.61 5209099.75 5209099.89 0.0485 0.0259

Mars 9550-02-01 23:16 G 5209157.35 5209157.47 5209157.58 0.1917 0.0285

Jupiter 9550-03-06 01:40 G 5209189.45 5209189.57 5209189.69 0.0485 0.0339

Saturn 9552-07-28 02:23 G 5210064.48 5210064.60 5210064.72 0.0284 0.0189

Saturn 9552-10-24 20:23 G 5210153.19 5210153.35 5210153.51 0.0284 0.0061

Saturn 9553-01-21 14:38 G 5210241.96 5210242.11 5210242.28 0.0284 0.0071

Saturn 9553-04-20 09:21 G 5210330.78 5210330.89 5210331.01 0.0283 0.0204

Jupiter 9555-11-10 12:43 G 5211264.96 5211265.03 5211265.09 0.0543 0.0470

Jupiter 9556-02-08 02:23 G 5211354.47 5211354.60 5211354.72 0.0544 0.0226

Earth 9556-02-08 20:09 G 5211355.23 5211355.34 5211355.45 0.2663 0.0884

Moon 9556-02-08 21:07 G 5211355.27 5211355.38 5211355.48 0.2665 0.0926 *

Mars 9558-08-13 01:26 G 5212271.41 5212271.56 5212271.72 0.1617 0.0378

Mars	9559-06-25 06:14 G	5212587.66	5212587.76	5212587.85	0.1921	0.1141
Jupiter	9561-09-24 06:57 G	5213409.70	5213409.79	5213409.89	0.0485	0.0401
Jupiter	9561-12-23 02:09 G	5213499.44	5213499.59	5213499.75	0.0484	0.0190
Moon	9565-08-04 05:16 G	5214819.59	5214819.72	5214819.85	0.2676	0.1080
Earth	9565-08-04 06:14 G	5214819.62	5214819.76	5214819.90	0.2671	0.0910 *
Saturn	9567-08-28 06:28 G	5215573.67	5215573.77	5215573.88	0.0274	0.0186
Saturn	9567-11-24 20:09 G	5215662.20	5215662.34	5215662.48	0.0275	0.0080
Jupiter	9567-11-27 05:02 G	5215664.58	5215664.71	5215664.85	0.0544	0.0065
Mars	9568-01-03 05:31 G	5215701.62	5215701.73	5215701.85	0.1614	0.1067
Saturn	9568-02-21 09:21 G	5215750.74	5215750.89	5215751.03	0.0275	0.0025
Saturn	9568-05-19 22:19 G	5215839.30	5215839.43	5215839.56	0.0275	0.0128
Saturn	9568-08-16 11:02 G	5215927.89	5215927.96	5215928.04	0.0276	0.0229
Earth	9569-02-10 14:52 G	5216106.07	5216106.12	5216106.17	0.2664	0.2346
Moon	9569-02-10 15:36 G	5216106.11	5216106.15	5216106.19	0.2662	0.2486 *
Mars	9570-10-21 08:38 G	5216723.79	5216723.86	5216723.94	0.1906	0.1458
Venus	9572-12-16 00:28 G	5217510.45	5217510.52	5217510.58	0.3682	0.2935
Jupiter	9573-10-11 02:38 G	5217809.44	5217809.61	5217809.78	0.0485	0.0037
Moon	9576-02-04 11:31 G	5218655.89	5218655.98	5218656.06	0.2668	0.1822
Earth	9576-02-04 11:31 G	5218655.90	5218655.98	5218656.06	0.2660	0.1818 *
Venus	9578-07-01 18:28 G	5219534.17	5219534.27	5219534.37	0.3683	0.1568
Earth	9578-08-07 09:21 G	5219570.77	5219570.89	5219571.01	0.2669	0.1555
Moon	9578-08-07 09:36 G	5219570.78	5219570.90	5219571.01	0.2676	0.1663 *
Mars	9579-05-01 19:11 G	5219838.19	5219838.30	5219838.41	0.1625	0.1178
Jupiter	9579-09-15 07:40 G	5219974.68	5219974.82	5219974.95	0.0543	0.0105
Uranus	9579-09-15 16:04 G	5219975.14	5219975.17	5219975.22	0.0134	0.0128
Uranus	9579-12-12 19:40 G	5220063.25	5220063.32	5220063.41	0.0134	0.0110
Venus	9580-01-13 18:57 G	5220095.18	5220095.29	5220095.39	0.3688	0.2388
Uranus	9580-03-09 23:31 G	5220151.38	5220151.48	5220151.58	0.0134	0.0092
Mars	9580-03-12 16:04 G	5220154.06	5220154.17	5220154.28	0.1912	0.0644
Uranus	9580-06-06 03:07 G	5220239.51	5220239.63	5220239.75	0.0134	0.0074

Uranus	9580-09-02 06:28 G	5220327.65	5220327.77	5220327.90	0.0134	0.0057
Uranus	9580-11-29 10:04 G	5220415.79	5220415.92	5220416.06	0.0134	0.0039
Uranus	9581-02-25 13:40 G	5220503.93	5220504.07	5220504.21	0.0134	0.0022
Uranus	9581-05-24 17:16 G	5220592.08	5220592.22	5220592.36	0.0134	0.0004
Uranus	9581-08-20 20:38 G	5220680.22	5220680.36	5220680.50	0.0134	0.0014
Uranus	9581-11-17 00:00 G	5220768.37	5220768.50	5220768.64	0.0134	0.0032
Saturn	9581-12-15 01:26 G	5220796.47	5220796.56	5220796.65	0.0284	0.0235
Uranus	9582-02-13 03:36 G	5220856.52	5220856.65	5220856.78	0.0134	0.0048
Saturn	9582-03-13 19:11 G	5220885.16	5220885.30	5220885.46	0.0284	0.0108
Uranus	9582-05-12 06:57 G	5220944.67	5220944.79	5220944.92	0.0135	0.0066
Saturn	9582-06-10 13:40 G	5220973.90	5220974.07	5220974.23	0.0284	0.0023
Uranus	9582-08-08 10:19 G	5221032.83	5221032.93	5221033.05	0.0135	0.0083
Saturn	9582-09-07 08:09 G	5221062.70	5221062.84	5221062.98	0.0283	0.0155
Uranus	9582-11-04 13:55 G	5221120.99	5221121.08	5221121.17	0.0135	0.0100
Uranus	9583-01-31 17:16 G	5221209.15	5221209.22	5221209.29	0.0135	0.0117
Uranus	9583-04-29 20:23 G	5221297.35	5221297.35	5221297.37	0.0135	0.0134
Venus	9584-01-15 12:14 G	5221557.90	5221558.01	5221558.12	0.3683	0.0240
Venus	9585-07-29 19:55 G	5222119.20	5222119.33	5222119.47	0.3687	0.0172
Jupiter	9585-07-30 03:21 G	5222119.48	5222119.64	5222119.80	0.0485	0.0110
Mars	9588-09-20 22:33 G	5223268.29	5223268.44	5223268.59	0.1621	0.0438
Earth	9589-02-06 06:28 G	5223406.65	5223406.77	5223406.88	0.2662	0.0298
Moon	9589-02-06 06:57 G	5223406.68	5223406.79	5223406.90	0.2667	0.0267 *
Venus	9589-07-31 05:45 G	5223581.64	5223581.74	5223581.85	0.3684	0.1056
Mars	9589-08-02 23:16 G	5223584.35	5223584.47	5223584.59	0.1916	0.0197
Venus	9591-02-12 21:36 G	5224143.29	5224143.40	5224143.51	0.3686	0.2199
Jupiter	9591-07-04 09:21 G	5224284.77	5224284.89	5224285.00	0.0543	0.0288
Jupiter	9591-10-01 22:19 G	5224374.34	5224374.43	5224374.53	0.0543	0.0398
Venus	9595-02-13 23:02 G	5225605.38	5225605.46	5225605.55	0.3685	0.2308
Saturn	9597-01-14 08:52 G	5226305.78	5226305.87	5226305.97	0.0275	0.0212
Saturn	9597-04-12 22:33 G	5226394.30	5226394.44	5226394.57	0.0276	0.0105

Jupiter 9597-05-18 04:04 G 5226429.53 5226429.67 5226429.81 0.0485 0.0258

Saturn 9597-07-10 11:45 G 5226482.85 5226482.99 5226483.14 0.0276 0.0006

Jupiter 9597-08-15 23:45 G 5226519.38 5226519.49 5226519.61 0.0485 0.0342

Saturn 9597-10-07 00:57 G 5226571.41 5226571.54 5226571.67 0.0276 0.0105

Saturn 9598-01-03 13:40 G 5226659.98 5226660.07 5226660.17 0.0277 0.0207

Mars 9598-02-11 02:09 G 5226698.43 5226698.59 5226698.74 0.1617 0.0282

Mars 9598-12-24 06:00 G 5227014.65 5227014.75 5227014.85 0.1921 0.1071

Venus 9600-08-29 16:19 G 5227629.15 5227629.18 5227629.21 0.3685 0.3516

Earth 9602-02-09 01:11 G 5228157.45 5228157.55 5228157.65 0.2663 0.1197

Moon 9602-02-09 01:55 G 5228157.49 5228157.58 5228157.68 0.2665 0.1377 *

Jupiter 9603-04-22 11:02 G 5228594.89 5228594.96 5228595.02 0.0542 0.0470

Jupiter 9603-07-21 00:28 G 5228684.40 5228684.52 5228684.65 0.0543 0.0225

Mars 9607-07-04 06:00 G 5230128.63 5230128.75 5230128.87 0.1614 0.0984

Jupiter 9609-03-06 04:48 G 5230739.61 5230739.70 5230739.79 0.0485 0.0404

Jupiter 9609-06-04 00:00 G 5230829.35 5230829.50 5230829.66 0.0485 0.0187

Mars 9610-04-21 08:52 G 5231150.80 5231150.87 5231150.93 0.1907 0.1537

Saturn 9611-05-04 04:19 G 5231528.62 5231528.68 5231528.75 0.0284 0.0255

Saturn 9611-07-31 22:19 G 5231617.28 5231617.43 5231617.57 0.0284 0.0128

Moon 9611-08-05 11:31 G 5231621.84 5231621.98 5231622.12 0.2676 0.0502

Earth 9611-08-05 12:14 G 5231621.87 5231622.01 5231622.15 0.2670 0.0426 *

Saturn 9611-10-28 16:19 G 5231706.02 5231706.18 5231706.35 0.0284 0.0006

Saturn 9612-01-25 10:48 G 5231794.81 5231794.95 5231795.10 0.0283 0.0134

Saturn 9612-04-23 05:45 G 5231883.69 5231883.74 5231883.80 0.0283 0.0268

Neptune 9613-03-06 12:28 G 5232200.98 5232201.02 5232201.10 0.0089 0.0083

Neptune 9613-06-02 14:23 G 5232289.04 5232289.10 5232289.20 0.0089 0.0075

Neptune 9613-08-29 16:33 G 5232377.10 5232377.19 5232377.29 0.0089 0.0067

Neptune 9613-11-25 18:00 G 5232465.16 5232465.25 5232465.38 0.0089 0.0060

Neptune 9614-02-21 19:55 G 5232553.22 5232553.33 5232553.46 0.0089 0.0052

Neptune 9614-05-20 21:50 G 5232641.29 5232641.41 5232641.55 0.0089 0.0044

Neptune 9614-08-16 23:31 G 5232729.36 5232729.48 5232729.63 0.0089 0.0037

Neptune 9614-11-13 01:26 G 5232817.43 5232817.56 5232817.71 0.0089 0.0029

Neptune 9615-02-09 03:21 G 5232905.50 5232905.64 5232905.78 0.0089 0.0021

Earth 9615-02-11 19:55 G 5232908.32 5232908.33 5232908.33 0.2665 0.2660

Neptune 9615-05-08 05:02 G 5232993.57 5232993.71 5232993.86 0.0089 0.0014

Jupiter 9615-05-09 02:38 G 5232994.48 5232994.61 5232994.75 0.0544 0.0053

Neptune 9615-08-04 06:57 G 5233081.64 5233081.79 5233081.93 0.0089 0.0006

Neptune 9615-10-31 08:38 G 5233169.72 5233169.86 5233170.01 0.0089 0.0002

Neptune 9616-01-27 10:19 G 5233257.79 5233257.93 5233258.08 0.0089 0.0010

Neptune 9616-04-24 12:14 G 5233345.86 5233346.01 5233346.15 0.0089 0.0017

Neptune 9616-07-21 13:40 G 5233433.94 5233434.07 5233434.22 0.0089 0.0025

Neptune 9616-10-17 15:36 G 5233522.02 5233522.15 5233522.29 0.0089 0.0031

Neptune 9617-01-13 17:16 G 5233610.09 5233610.22 5233610.35 0.0089 0.0039

Neptune 9617-04-11 18:57 G 5233698.17 5233698.29 5233698.42 0.0089 0.0046

Neptune 9617-07-08 20:38 G 5233786.25 5233786.36 5233786.48 0.0089 0.0054

Neptune 9617-10-04 22:19 G 5233874.33 5233874.43 5233874.54 0.0089 0.0061

Neptune 9617-12-31 23:45 G 5233962.42 5233962.49 5233962.60 0.0089 0.0069

Neptune 9618-03-30 01:40 G 5234050.50 5234050.57 5234050.65 0.0089 0.0075

Neptune 9618-06-26 03:21 G 5234138.59 5234138.64 5234138.70 0.0089 0.0083

Mars 9618-10-30 19:40 G 5234265.22 5234265.32 5234265.42 0.1625 0.1267

Mars 9619-09-11 16:19 G 5234581.07 5234581.18 5234581.29 0.1912 0.0730

Uranus 9620-12-25 15:21 G 5235052.06 5235052.14 5235052.23 0.0144 0.0123

Jupiter 9621-03-23 00:43 G 5235139.37 5235139.53 5235139.70 0.0485 0.0041

Uranus 9621-03-23 22:04 G 5235140.30 5235140.42 5235140.56 0.0144 0.0097

Uranus 9621-06-20 05:02 G 5235228.56 5235228.71 5235228.87 0.0144 0.0070

Uranus 9621-09-16 12:00 G 5235316.84 5235317.00 5235317.17 0.0144 0.0043

Uranus 9621-12-13 18:57 G 5235405.12 5235405.29 5235405.47 0.0144 0.0016

Moon 9622-02-04 16:33 G 5235458.09 5235458.19 5235458.28 0.2668 0.1506

Earth 9622-02-04 16:33 G 5235458.09 5235458.19 5235458.28 0.2661 0.1495 *

Uranus 9622-03-12 02:09 G 5235493.41 5235493.59 5235493.77 0.0144 0.0012

Uranus 9622-06-08 09:07 G 5235581.72 5235581.88 5235582.06 0.0144 0.0040

Uranus	9622-09-04 16:19 G	5235670.03	5235670.18	5235670.34	0.0144	0.0067	
Uranus	9622-12-01 23:16 G	5235758.35	5235758.47	5235758.62	0.0144	0.0096	
Uranus	9623-02-28 06:57 G	5235846.70	5235846.79	5235846.88	0.0144	0.0123	
Earth	9624-08-07 15:21 G	5236373.05	5236373.14	5236373.23	0.2669	0.2061	
Moon	9624-08-07 15:50 G	5236373.07	5236373.16	5236373.25	0.2676	0.2051	*
Saturn	9626-06-03 10:48 G	5237037.88	5237037.95	5237038.02	0.0274	0.0242	
Saturn	9626-08-31 00:14 G	5237126.39	5237126.51	5237126.64	0.0275	0.0136	
Saturn	9626-11-27 13:40 G	5237214.93	5237215.07	5237215.22	0.0275	0.0030	
Saturn	9627-02-24 02:52 G	5237303.48	5237303.62	5237303.76	0.0275	0.0074	
Jupiter	9627-02-25 05:16 G	5237304.59	5237304.72	5237304.86	0.0544	0.0116	
Saturn	9627-05-23 15:36 G	5237392.05	5237392.15	5237392.27	0.0275	0.0176	
Mars	9628-03-21 23:02 G	5237695.31	5237695.46	5237695.61	0.1621	0.0529	
Mars	9629-01-31 23:16 G	5238011.35	5238011.47	5238011.59	0.1916	0.0126	
Venus	9629-07-22 22:33 G	5238183.36	5238183.44	5238183.52	0.3682	0.2501	
Jupiter	9633-01-09 01:11 G	5239449.39	5239449.55	5239449.72	0.0485	0.0112	
Venus	9635-02-05 16:33 G	5240207.08	5240207.19	5240207.29	0.3683	0.1147	
Earth	9635-02-07 11:31 G	5240208.86	5240208.98	5240209.09	0.2662	0.0079	
Moon	9635-02-07 12:00 G	5240208.89	5240209.00	5240209.12	0.2666	0.0143	*
Venus	9636-08-19 18:57 G	5240768.17	5240768.29	5240768.40	0.3687	0.1722	
Mars	9637-08-12 02:38 G	5241125.45	5241125.61	5241125.77	0.1617	0.0192	
Mars	9638-06-24 06:14 G	5241441.66	5241441.76	5241441.87	0.1921	0.0977	
Jupiter	9638-12-14 07:55 G	5241614.71	5241614.83	5241614.95	0.0543	0.0283	
Jupiter	9639-03-13 21:07 G	5241704.29	5241704.38	5241704.47	0.0544	0.0404	
Pluto	9639-12-18 21:07 G	5241984.33	5241984.38	5241984.45	0.0071	0.0062	
Pluto	9640-03-15 21:50 G	5242072.33	5242072.41	5242072.51	0.0071	0.0053	
Pluto	9640-06-11 22:33 G	5242160.34	5242160.44	5242160.55	0.0071	0.0045	
Venus	9640-08-21 10:19 G	5242230.82	5242230.93	5242231.04	0.3684	0.0198	
Pluto	9640-09-07 23:31 G	5242248.36	5242248.48	5242248.60	0.0071	0.0035	
Pluto	9640-12-05 00:14 G	5242336.39	5242336.51	5242336.64	0.0071	0.0026	
Saturn	9640-12-17 21:07 G	5242349.25	5242349.38	5242349.50	0.0284	0.0176	

Pluto	9641-03-03 00:57 G	5242424.41	5242424.54	5242424.68	0.0071	0.0017
Saturn	9641-03-16 15:07 G	5242437.97	5242438.13	5242438.29	0.0284	0.0047
Pluto	9641-05-30 01:40 G	5242512.44	5242512.57	5242512.71	0.0072	0.0009
Saturn	9641-06-13 09:21 G	5242526.73	5242526.89	5242527.05	0.0284	0.0084
Pluto	9641-08-26 02:38 G	5242600.47	5242600.61	5242600.74	0.0072	0.0002
Saturn	9641-09-10 04:04 G	5242615.57	5242615.67	5242615.78	0.0283	0.0217
Pluto	9641-11-22 03:21 G	5242688.51	5242688.64	5242688.78	0.0072	0.0011
Pluto	9642-02-18 04:04 G	5242776.54	5242776.67	5242776.81	0.0072	0.0020
Venus	9642-03-05 20:09 G	5242792.20	5242792.34	5242792.47	0.3687	0.0541
Pluto	9642-05-17 04:48 G	5242864.58	5242864.70	5242864.83	0.0072	0.0030
Pluto	9642-08-13 05:45 G	5242952.63	5242952.74	5242952.85	0.0072	0.0039
Pluto	9642-11-09 06:14 G	5243040.67	5243040.76	5243040.87	0.0072	0.0050
Pluto	9643-02-05 07:26 G	5243128.73	5243128.81	5243128.89	0.0072	0.0059
Pluto	9643-05-04 07:55 G	5243216.80	5243216.83	5243216.88	0.0073	0.0069
Moon	9644-08-02 14:09 G	5243673.06	5243673.09	5243673.13	0.2675	0.2587
Earth	9644-08-02 15:36 G	5243673.08	5243673.15	5243673.21	0.2672	0.2353 *
Jupiter	9644-10-28 02:09 G	5243759.46	5243759.59	5243759.73	0.0485	0.0256
Jupiter	9645-01-25 21:50 G	5243849.30	5243849.41	5243849.53	0.0485	0.0343
Venus	9646-03-07 03:50 G	5244254.55	5244254.66	5244254.76	0.3684	0.1456
Mars	9647-01-02 06:28 G	5244555.64	5244555.77	5244555.90	0.1614	0.0893
Venus	9647-09-19 21:50 G	5244816.33	5244816.41	5244816.50	0.3686	0.2935
Mars	9647-11-14 12:57 G	5244872.01	5244872.04	5244872.06	0.1925	0.1875
Earth	9648-02-10 06:14 G	5244959.66	5244959.76	5244959.85	0.2663	0.1508
Moon	9648-02-10 06:57 G	5244959.70	5244959.79	5244959.88	0.2664	0.1555 *
Mars	9649-10-20 08:52 G	5245577.81	5245577.87	5245577.93	0.1906	0.1616
Jupiter	9650-10-02 09:36 G	5245924.83	5245924.90	5245924.97	0.0542	0.0465
Jupiter	9650-12-30 23:16 G	5246014.34	5246014.47	5246014.59	0.0543	0.0230
Venus	9651-09-20 21:07 G	5246278.30	5246278.38	5246278.45	0.3685	0.2688
Saturn	9655-10-21 12:28 G	5247770.01	5247770.02	5247770.05	0.0275	0.0271
Saturn	9656-01-18 02:23 G	5247858.48	5247858.60	5247858.72	0.0275	0.0163

Saturn	9656-04-15 15:50 G	5247947.02	5247947.16	5247947.30	0.0276	0.0057
Mars	9656-05-24 10:48 G	5247985.92	5247985.95	5247985.98	0.1611	0.1572
Saturn	9656-07-13 05:02 G	5248035.57	5248035.71	5248035.86	0.0276	0.0048
Jupiter	9656-08-16 02:52 G	5248069.54	5248069.62	5248069.72	0.0485	0.0403
Saturn	9656-10-09 18:00 G	5248124.13	5248124.25	5248124.37	0.0276	0.0151
Jupiter	9656-11-13 22:19 G	5248159.27	5248159.43	5248159.58	0.0485	0.0190
Saturn	9657-01-06 06:43 G	5248212.73	5248212.78	5248212.84	0.0277	0.0252
Moon	9657-08-05 18:00 G	5248424.10	5248424.25	5248424.39	0.2676	0.0082
Earth	9657-08-05 18:14 G	5248424.12	5248424.26	5248424.41	0.2670	0.0077 *
Mars	9658-04-30 20:09 G	5248692.26	5248692.34	5248692.43	0.1625	0.1368
Mars	9659-03-12 16:19 G	5249008.07	5249008.18	5249008.28	0.1912	0.0803
Jupiter	9662-10-19 01:11 G	5250324.42	5250324.55	5250324.69	0.0543	0.0056
Uranus	9663-10-05 23:02 G	5250676.42	5250676.46	5250676.52	0.0134	0.0124
Uranus	9664-01-02 02:52 G	5250764.54	5250764.62	5250764.71	0.0134	0.0106
Uranus	9664-03-30 06:28 G	5250852.67	5250852.77	5250852.88	0.0134	0.0088
Uranus	9664-06-26 10:04 G	5250940.80	5250940.92	5250941.04	0.0134	0.0071
Uranus	9664-09-22 13:26 G	5251028.94	5251029.06	5251029.20	0.0134	0.0054
Uranus	9664-12-19 17:16 G	5251117.08	5251117.22	5251117.35	0.0134	0.0035
Uranus	9665-03-17 20:38 G	5251205.22	5251205.36	5251205.50	0.0134	0.0018
Uranus	9665-06-14 00:14 G	5251293.37	5251293.51	5251293.65	0.0134	0.0000
Uranus	9665-09-10 03:36 G	5251381.52	5251381.65	5251381.79	0.0134	0.0018
Uranus	9665-12-07 07:11 G	5251469.66	5251469.80	5251469.93	0.0134	0.0035
Uranus	9666-03-05 10:33 G	5251557.81	5251557.94	5251558.07	0.0134	0.0052
Uranus	9666-06-01 13:55 G	5251645.97	5251646.08	5251646.20	0.0135	0.0069
Uranus	9666-08-28 17:16 G	5251734.12	5251734.22	5251734.33	0.0135	0.0087
Uranus	9666-11-24 20:38 G	5251822.28	5251822.36	5251822.46	0.0135	0.0104
Uranus	9667-02-21 00:00 G	5251910.45	5251910.50	5251910.57	0.0135	0.0121
Mars	9667-09-20 23:31 G	5252122.33	5252122.48	5252122.63	0.1621	0.0619
Earth	9668-02-05 21:36 G	5252260.29	5252260.40	5252260.50	0.2661	0.1174
Moon	9668-02-05 21:36 G	5252260.30	5252260.40	5252260.50	0.2667	0.1183 *

Mars	9668-08-01 23:31 G	5252438.36	5252438.48	5252438.60	0.1917	0.0033	
Jupiter	9668-09-01 22:48 G	5252469.28	5252469.45	5252469.61	0.0485	0.0040	
Saturn	9670-05-06 23:31 G	5253081.37	5253081.48	5253081.60	0.0284	0.0198	
Saturn	9670-08-03 17:31 G	5253170.07	5253170.23	5253170.39	0.0284	0.0070	
Earth	9670-08-08 21:36 G	5253175.36	5253175.40	5253175.43	0.2669	0.2556	
Moon	9670-08-08 21:50 G	5253175.40	5253175.41	5253175.42	0.2675	0.2659	*
Saturn	9670-10-31 12:00 G	5253258.84	5253259.00	5253259.16	0.0284	0.0061	
Saturn	9671-01-28 06:43 G	5253347.66	5253347.78	5253347.90	0.0283	0.0194	
Jupiter	9674-08-07 03:07 G	5254634.50	5254634.63	5254634.77	0.0543	0.0125	
Mars	9677-02-10 03:07 G	5255552.47	5255552.63	5255552.79	0.1617	0.0111	
Mars	9677-12-23 06:28 G	5255868.66	5255868.77	5255868.87	0.1921	0.0894	
Jupiter	9680-06-20 23:45 G	5256779.33	5256779.49	5256779.65	0.0485	0.0106	
Venus	9680-08-13 02:38 G	5256832.57	5256832.61	5256832.65	0.3682	0.3461	
Earth	9681-02-07 16:19 G	5257011.07	5257011.18	5257011.30	0.2662	0.0351	
Moon	9681-02-07 17:02 G	5257011.10	5257011.21	5257011.33	0.2666	0.0431	*
Saturn	9685-06-06 04:19 G	5258590.58	5258590.68	5258590.79	0.0274	0.0193	
Saturn	9685-09-02 18:00 G	5258679.11	5258679.25	5258679.39	0.0275	0.0086	
Saturn	9685-11-30 07:11 G	5258767.66	5258767.80	5258767.95	0.0275	0.0018	
Saturn	9686-02-26 20:09 G	5258856.21	5258856.34	5258856.47	0.0275	0.0121	
Venus	9686-02-26 20:38 G	5258856.27	5258856.36	5258856.46	0.3683	0.2076	*
Jupiter	9686-05-26 05:45 G	5258944.62	5258944.74	5258944.85	0.0543	0.0293	
Saturn	9686-05-26 08:52 G	5258944.79	5258944.87	5258944.96	0.0275	0.0222	*
Mars	9686-07-03 07:11 G	5258982.66	5258982.80	5258982.93	0.1614	0.0805	
Jupiter	9686-08-23 18:57 G	5259034.20	5259034.29	5259034.39	0.0544	0.0397	
Mars	9687-05-15 12:57 G	5259299.00	5259299.04	5259299.09	0.1925	0.1787	
Venus	9687-09-10 18:00 G	5259417.19	5259417.25	5259417.31	0.3688	0.3211	
Mars	9689-04-20 08:52 G	5260004.82	5260004.87	5260004.92	0.1906	0.1698	
Moon	9690-08-03 20:23 G	5260475.25	5260475.35	5260475.44	0.2675	0.1960	
Earth	9690-08-03 21:36 G	5260475.30	5260475.40	5260475.50	0.2672	0.1882	*
Venus	9691-09-12 14:38 G	5260880.00	5260880.11	5260880.22	0.3683	0.0731	

Jupiter 9692-04-09 00:28 G 5261089.38 5261089.52 5261089.66 0.0485 0.0254

Jupiter 9692-07-07 19:55 G 5261179.21 5261179.33 5261179.45 0.0484 0.0343

Venus 9693-03-26 18:57 G 5261441.16 5261441.29 5261441.41 0.3687 0.1055

Earth 9694-02-10 11:02 G 5261761.88 5261761.96 5261762.05 0.2664 0.1818

Moon 9694-02-10 11:45 G 5261761.92 5261761.99 5261762.07 0.2662 0.1956 *

Neptune 9695-02-27 03:50 G 5262143.63 5262143.66 5262143.72 0.0088 0.0085

Neptune 9695-05-26 06:14 G 5262231.70 5262231.76 5262231.86 0.0088 0.0077

Neptune 9695-08-22 08:52 G 5262319.78 5262319.87 5262319.99 0.0088 0.0069

Neptune 9695-11-18 11:45 G 5262407.87 5262407.99 5262408.11 0.0088 0.0060

Mars 9695-11-23 11:16 G 5262412.91 5262412.97 5262413.03 0.1611 0.1486

Neptune 9696-02-14 14:09 G 5262495.96 5262496.09 5262496.23 0.0088 0.0052

Neptune 9696-05-12 16:33 G 5262584.06 5262584.19 5262584.35 0.0088 0.0044

Neptune 9696-08-08 19:11 G 5262672.16 5262672.30 5262672.47 0.0088 0.0036

Neptune 9696-11-04 22:04 G 5262760.26 5262760.42 5262760.58 0.0088 0.0027

Neptune 9697-02-01 00:28 G 5262848.36 5262848.52 5262848.69 0.0088 0.0019

Venus 9697-03-28 08:09 G 5262903.73 5262903.84 5262903.95 0.3684 0.0591

Neptune 9697-04-30 03:07 G 5262936.46 5262936.63 5262936.80 0.0088 0.0011

Neptune 9697-07-27 05:45 G 5263024.57 5263024.74 5263024.92 0.0088 0.0003

Neptune 9697-10-23 08:23 G 5263112.68 5263112.85 5263113.02 0.0088 0.0006

Mars 9697-10-29 20:52 G 5263119.30 5263119.37 5263119.44 0.1625 0.1463

Neptune 9698-01-19 11:02 G 5263200.79 5263200.96 5263201.13 0.0088 0.0015

Jupiter 9698-03-14 08:09 G 5263254.77 5263254.84 5263254.91 0.0543 0.0461

Neptune 9698-04-17 13:40 G 5263288.90 5263289.07 5263289.24 0.0088 0.0023

Jupiter 9698-06-11 21:50 G 5263344.29 5263344.41 5263344.53 0.0544 0.0236

Neptune 9698-07-14 16:04 G 5263377.02 5263377.17 5263377.34 0.0088 0.0032

Mars 9698-09-10 16:19 G 5263435.08 5263435.18 5263435.29 0.1912 0.0888

Neptune 9698-10-10 18:57 G 5263465.14 5263465.29 5263465.45 0.0088 0.0040

Venus 9698-10-10 20:09 G 5263465.22 5263465.34 5263465.47 0.3687 0.1250 *

Neptune 9699-01-06 21:21 G 5263553.26 5263553.39 5263553.55 0.0088 0.0049

Neptune 9699-04-05 00:14 G 5263641.38 5263641.51 5263641.65 0.0088 0.0057

Neptune 9699-07-02 02:38 G 5263729.51 5263729.61 5263729.74 0.0088 0.0066

Saturn 9699-09-23 22:19 G 5263813.35 5263813.43 5263813.51 0.0285 0.0246

Neptune 9699-09-28 05:16 G 5263817.65 5263817.72 5263817.83 0.0088 0.0075

Saturn 9699-12-21 16:04 G 5263902.02 5263902.17 5263902.32 0.0284 0.0119

Neptune 9699-12-25 08:23 G 5263905.80 5263905.85 5263905.91 0.0088 0.0083

Saturn 9700-03-20 10:19 G 5263990.76 5263990.93 5263991.09 0.0284 0.0011

Saturn 9700-06-17 04:48 G 5264079.56 5264079.70 5264079.84 0.0284 0.0143

Saturn 9700-09-13 23:45 G 5264168.46 5264168.49 5264168.52 0.0283 0.0277

Moon 9701-02-04 07:11 G 5264311.76 5264311.80 5264311.84 0.2666 0.2506

Earth 9701-02-04 07:26 G 5264311.77 5264311.81 5264311.86 0.2659 0.2384 *

Venus 9702-10-13 01:40 G 5264927.48 5264927.57 5264927.67 0.3685 0.1836

Moon 9703-08-08 00:14 G 5265226.37 5265226.51 5265226.65 0.2677 0.0475

Earth 9703-08-08 00:28 G 5265226.37 5265226.52 5265226.66 0.2670 0.0554 *

Jupiter 9704-01-28 01:26 G 5265399.47 5265399.56 5265399.65 0.0485 0.0397

Jupiter 9704-04-26 20:38 G 5265489.20 5265489.36 5265489.51 0.0485 0.0194

Venus 9704-04-26 22:19 G 5265489.42 5265489.43 5265489.44 0.3686 0.3667 *

Uranus 9704-10-19 15:36 G 5265665.15 5265665.15 5265665.17 0.0144 0.0144

Uranus 9705-01-15 22:19 G 5265753.34 5265753.43 5265753.54 0.0144 0.0117

Uranus 9705-04-14 05:16 G 5265841.59 5265841.72 5265841.86 0.0144 0.0091

Uranus 9705-07-11 12:14 G 5265929.86 5265930.01 5265930.17 0.0144 0.0064

Uranus 9705-10-07 19:11 G 5266018.13 5266018.30 5266018.48 0.0144 0.0036

Uranus 9706-01-04 02:23 G 5266106.42 5266106.60 5266106.77 0.0144 0.0009

Uranus 9706-04-02 09:21 G 5266194.71 5266194.89 5266195.07 0.0144 0.0019

Uranus 9706-06-29 16:33 G 5266283.02 5266283.19 5266283.36 0.0144 0.0046

Uranus 9706-09-25 23:31 G 5266371.33 5266371.48 5266371.64 0.0144 0.0074

Uranus 9706-12-23 06:43 G 5266459.66 5266459.78 5266459.91 0.0144 0.0102

Uranus 9707-03-21 13:55 G 5266548.01 5266548.08 5266548.16 0.0144 0.0130

Mars 9707-03-23 00:00 G 5266549.36 5266549.50 5266549.65 0.1621 0.0714

Mars 9708-02-01 23:31 G 5266865.36 5266865.48 5266865.60 0.1916 0.0049

Venus 9708-04-27 18:57 G 5266951.23 5266951.29 5266951.35 0.3685 0.3065

Jupiter	9710-04-01 00:00 G	5267654.37	5267654.50	5267654.64	0.0543	0.0062	
Earth	9714-02-07 02:38 G	5269062.50	5269062.61	5269062.72	0.2661	0.0849	
Moon	9714-02-07 02:52 G	5269062.51	5269062.62	5269062.73	0.2667	0.0764	*
Saturn	9714-10-25 05:45 G	5269322.67	5269322.74	5269322.83	0.0275	0.0225	
Saturn	9715-01-21 19:26 G	5269411.18	5269411.31	5269411.45	0.0275	0.0118	
Saturn	9715-04-20 08:52 G	5269499.73	5269499.87	5269500.02	0.0276	0.0013	
Saturn	9715-07-17 22:04 G	5269588.28	5269588.42	5269588.55	0.0276	0.0091	
Saturn	9715-10-14 10:48 G	5269676.86	5269676.95	5269677.06	0.0276	0.0193	
Jupiter	9716-02-13 20:52 G	5269799.21	5269799.37	5269799.54	0.0485	0.0045	
Mars	9716-08-12 03:36 G	5269979.49	5269979.65	5269979.81	0.1617	0.0036	
Mars	9717-06-24 06:28 G	5270295.66	5270295.77	5270295.88	0.1921	0.0816	
Jupiter	9722-01-18 01:55 G	5271964.45	5271964.58	5271964.72	0.0543	0.0117	
Pluto	9725-08-10 15:07 G	5273265.04	5273265.13	5273265.25	0.0073	0.0060	
Pluto	9725-11-06 17:02 G	5273353.09	5273353.21	5273353.38	0.0073	0.0047	
Mars	9726-01-02 07:26 G	5273409.67	5273409.81	5273409.95	0.1614	0.0723	
Pluto	9726-02-02 19:40 G	5273441.16	5273441.32	5273441.49	0.0073	0.0033	
Pluto	9726-05-01 21:50 G	5273529.23	5273529.41	5273529.59	0.0073	0.0020	
Pluto	9726-07-29 00:00 G	5273617.31	5273617.50	5273617.69	0.0072	0.0006	
Pluto	9726-10-25 02:09 G	5273705.40	5273705.59	5273705.78	0.0072	0.0007	
Mars	9726-11-14 13:11 G	5273726.00	5273726.05	5273726.11	0.1925	0.1698	
Pluto	9727-01-21 04:04 G	5273793.50	5273793.67	5273793.86	0.0072	0.0020	
Earth	9727-02-09 21:21 G	5273813.28	5273813.39	5273813.50	0.2662	0.0656	
Moon	9727-02-09 22:04 G	5273813.31	5273813.42	5273813.53	0.2666	0.0746	*
Pluto	9727-04-19 06:00 G	5273881.60	5273881.75	5273881.93	0.0072	0.0033	
Pluto	9727-07-16 07:55 G	5273969.71	5273969.83	5273970.00	0.0072	0.0046	
Pluto	9727-10-12 10:19 G	5274057.83	5274057.93	5274058.05	0.0072	0.0058	
Jupiter	9727-12-02 21:36 G	5274109.24	5274109.40	5274109.57	0.0485	0.0106	
Pluto	9728-01-08 12:14 G	5274146.00	5274146.01	5274146.05	0.0072	0.0071	
Mars	9728-10-20 08:52 G	5274431.83	5274431.87	5274431.91	0.1906	0.1773	
Saturn	9729-02-11 00:28 G	5274545.48	5274545.52	5274545.57	0.0285	0.0270	

Saturn	9729-05-10 18:14 G	5274634.13	5274634.26	5274634.41	0.0284	0.0144
Saturn	9729-08-07 12:28 G	5274722.86	5274723.02	5274723.18	0.0284	0.0015
Saturn	9729-11-04 06:57 G	5274811.64	5274811.79	5274811.94	0.0284	0.0117
Saturn	9730-02-01 01:55 G	5274900.50	5274900.58	5274900.65	0.0283	0.0251
Jupiter	9733-11-06 03:36 G	5276274.53	5276274.65	5276274.76	0.0543	0.0301
Jupiter	9734-02-03 16:48 G	5276364.11	5276364.20	5276364.30	0.0544	0.0390
Mars	9735-05-25 11:45 G	5276839.91	5276839.99	5276840.06	0.1611	0.1400
Moon	9736-08-05 02:38 G	5277277.50	5277277.61	5277277.72	0.2676	0.1612
Earth	9736-08-05 03:36 G	5277277.53	5277277.65	5277277.77	0.2671	0.1401 *
Venus	9737-03-21 00:43 G	5277505.47	5277505.53	5277505.60	0.3682	0.3027
Mars	9737-04-30 21:21 G	5277546.34	5277546.39	5277546.43	0.1625	0.1549
Mars	9738-03-12 16:33 G	5277862.09	5277862.19	5277862.29	0.1911	0.0974
Jupiter	9739-09-20 22:48 G	5278419.31	5278419.45	5278419.60	0.0485	0.0247
Jupiter	9739-12-19 18:28 G	5278509.15	5278509.27	5278509.38	0.0484	0.0351
Earth	9740-02-12 16:04 G	5278564.10	5278564.17	5278564.24	0.2664	0.2127
Moon	9740-02-12 16:48 G	5278564.14	5278564.20	5278564.26	0.2661	0.2206 *
Venus	9742-10-04 18:43 G	5279529.18	5279529.28	5279529.38	0.3683	0.1659
Saturn	9744-03-13 08:09 G	5280054.79	5280054.84	5280054.90	0.0274	0.0252
Venus	9744-04-17 18:00 G	5280090.15	5280090.25	5280090.34	0.3688	0.2572
Saturn	9744-06-09 21:50 G	5280143.28	5280143.41	5280143.53	0.0274	0.0145
Saturn	9744-09-06 11:02 G	5280231.82	5280231.96	5280232.11	0.0275	0.0042
Saturn	9744-12-04 00:14 G	5280320.37	5280320.51	5280320.65	0.0275	0.0063
Saturn	9745-03-02 13:11 G	5280408.94	5280409.05	5280409.16	0.0275	0.0165
Saturn	9745-05-30 01:55 G	5280497.55	5280497.58	5280497.62	0.0275	0.0265
Jupiter	9745-08-25 06:00 G	5280584.68	5280584.75	5280584.81	0.0543	0.0470
Jupiter	9745-11-22 19:40 G	5280674.20	5280674.32	5280674.45	0.0544	0.0229
Mars	9746-09-21 00:43 G	5280976.39	5280976.53	5280976.66	0.1621	0.0808
Moon	9747-02-05 12:14 G	5281113.94	5281114.01	5281114.08	0.2666	0.2044
Earth	9747-02-05 12:28 G	5281113.95	5281114.02	5281114.10	0.2659	0.2061 *
Mars	9747-08-02 23:31 G	5281292.37	5281292.48	5281292.60	0.1916	0.0146

Uranus 9747-10-27 06:00 G 5281377.70 5281377.75 5281377.82 0.0134 0.0121

Uranus 9748-01-23 09:36 G 5281465.82 5281465.90 5281466.00 0.0134 0.0103

Venus 9748-04-19 12:43 G 5281552.92 5281553.03 5281553.14 0.3684 0.0324

Uranus 9748-04-20 13:11 G 5281553.95 5281554.05 5281554.17 0.0134 0.0085

Uranus 9748-07-17 17:02 G 5281642.08 5281642.21 5281642.33 0.0134 0.0067

Uranus 9748-10-13 20:23 G 5281730.22 5281730.35 5281730.49 0.0134 0.0050

Uranus 9749-01-10 00:00 G 5281818.37 5281818.50 5281818.64 0.0134 0.0032

Uranus 9749-04-08 03:36 G 5281906.51 5281906.65 5281906.79 0.0134 0.0015

Uranus 9749-07-05 06:57 G 5281994.65 5281994.79 5281994.93 0.0134 0.0005

Moon 9749-08-08 06:14 G 5282028.63 5282028.76 5282028.89 0.2677 0.1087

Earth 9749-08-08 06:28 G 5282028.63 5282028.77 5282028.90 0.2670 0.1035 *

Uranus 9749-10-01 10:33 G 5282082.80 5282082.94 5282083.08 0.0134 0.0020

Venus 9749-11-01 18:57 G 5282114.15 5282114.29 5282114.42 0.3687 0.0373

Uranus 9749-12-28 13:55 G 5282170.95 5282171.08 5282171.22 0.0134 0.0038

Uranus 9750-03-26 17:16 G 5282259.10 5282259.22 5282259.35 0.0134 0.0055

Uranus 9750-06-22 20:38 G 5282347.25 5282347.36 5282347.49 0.0135 0.0073

Uranus 9750-09-19 00:14 G 5282435.41 5282435.51 5282435.61 0.0135 0.0089

Uranus 9750-12-16 03:36 G 5282523.57 5282523.65 5282523.74 0.0135 0.0107

Uranus 9751-03-14 06:57 G 5282611.74 5282611.79 5282611.85 0.0135 0.0124

Jupiter 9751-07-09 23:45 G 5282729.40 5282729.49 5282729.58 0.0485 0.0392

Jupiter 9751-10-07 18:43 G 5282819.13 5282819.28 5282819.43 0.0484 0.0197

Venus 9753-11-03 06:14 G 5283576.65 5283576.76 5283576.86 0.3684 0.0967

Venus 9755-05-18 20:23 G 5284138.23 5284138.35 5284138.47 0.3686 0.1951

Mars 9756-02-11 04:04 G 5284406.51 5284406.67 5284406.83 0.1617 0.0080

Mars 9756-12-23 06:28 G 5284722.66 5284722.77 5284722.88 0.1921 0.0731

Jupiter 9757-09-10 22:33 G 5284984.31 5284984.44 5284984.58 0.0544 0.0067

Saturn 9758-09-27 16:48 G 5285366.08 5285366.20 5285366.32 0.0285 0.0194

Saturn 9758-12-25 10:33 G 5285454.79 5285454.94 5285455.10 0.0284 0.0067

Saturn 9759-03-24 05:02 G 5285543.55 5285543.71 5285543.87 0.0284 0.0065

Venus 9759-05-19 23:31 G 5285600.40 5285600.48 5285600.57 0.3685 0.2229

Saturn 9759-06-20 23:31 G 5285632.37 5285632.48 5285632.61 0.0284 0.0198

Earth 9760-02-08 07:40 G 5285864.70 5285864.82 5285864.93 0.2661 0.0537

Moon 9760-02-08 07:55 G 5285864.72 5285864.83 5285864.95 0.2667 0.0537 *

Jupiter 9763-07-26 19:26 G 5287129.15 5287129.31 5287129.48 0.0485 0.0051

Venus 9764-12-02 16:48 G 5287624.16 5287624.20 5287624.24 0.3685 0.3430

Mars 9765-07-03 08:09 G 5287836.69 5287836.84 5287836.98 0.1614 0.0627

Mars 9766-05-15 13:11 G 5288152.99 5288153.05 5288153.12 0.1925 0.1619

Mars 9768-04-20 09:07 G 5288858.86 5288858.88 5288858.90 0.1906 0.1858

Jupiter 9769-06-30 00:43 G 5289294.40 5289294.53 5289294.67 0.0543 0.0108

Earth 9773-02-10 02:23 G 5290615.49 5290615.60 5290615.71 0.2662 0.0972

Moon 9773-02-10 03:07 G 5290615.52 5290615.63 5290615.73 0.2665 0.1100 *

Saturn 9773-10-27 23:02 G 5290875.35 5290875.46 5290875.57 0.0275 0.0180

Saturn 9774-01-24 12:28 G 5290963.88 5290964.02 5290964.16 0.0275 0.0074

Saturn 9774-04-23 01:40 G 5291052.43 5291052.57 5291052.71 0.0275 0.0030

Saturn 9774-07-20 14:38 G 5291140.99 5291141.11 5291141.24 0.0276 0.0133

Saturn 9774-10-17 03:21 G 5291229.57 5291229.64 5291229.72 0.0276 0.0234

Mars 9774-11-23 12:00 G 5291266.92 5291267.00 5291267.09 0.1611 0.1317

Jupiter 9775-05-14 20:09 G 5291439.18 5291439.34 5291439.50 0.0485 0.0100

Neptune 9777-09-05 10:48 G 5292283.91 5292283.95 5292283.99 0.0089 0.0086

Mars 9777-09-10 16:33 G 5292289.09 5292289.19 5292289.28 0.1911 0.1047

Neptune 9777-12-02 12:28 G 5292371.96 5292372.02 5292372.10 0.0089 0.0078

Neptune 9778-02-28 14:23 G 5292460.02 5292460.10 5292460.19 0.0089 0.0070

Neptune 9778-05-27 16:19 G 5292548.08 5292548.18 5292548.29 0.0089 0.0063

Neptune 9778-08-23 18:00 G 5292636.14 5292636.25 5292636.37 0.0089 0.0055

Neptune 9778-11-19 19:55 G 5292724.21 5292724.33 5292724.46 0.0089 0.0047

Neptune 9779-02-15 21:50 G 5292812.28 5292812.41 5292812.54 0.0089 0.0040

Neptune 9779-05-14 23:31 G 5292900.35 5292900.48 5292900.62 0.0089 0.0032

Neptune 9779-08-11 01:26 G 5292988.42 5292988.56 5292988.70 0.0089 0.0025

Neptune 9779-11-07 03:07 G 5293076.49 5293076.63 5293076.78 0.0089 0.0017

Neptune 9780-02-03 05:02 G 5293164.56 5293164.71 5293164.85 0.0089 0.0010

Neptune 9780-05-01 06:43 G 5293252.63 5293252.78 5293252.93 0.0089 0.0002

Neptune 9780-07-28 08:23 G 5293340.71 5293340.85 5293341.00 0.0089 0.0006

Neptune 9780-10-24 10:04 G 5293428.78 5293428.92 5293429.07 0.0089 0.0013

Neptune 9781-01-20 12:00 G 5293516.86 5293517.00 5293517.14 0.0089 0.0020

Jupiter 9781-04-18 02:38 G 5293604.50 5293604.61 5293604.73 0.0543 0.0286

Neptune 9781-04-18 13:40 G 5293604.93 5293605.07 5293605.21 0.0089 0.0028

Neptune 9781-07-15 15:21 G 5293693.01 5293693.14 5293693.28 0.0089 0.0035

Jupiter 9781-07-16 16:04 G 5293694.08 5293694.17 5293694.26 0.0543 0.0402

Neptune 9781-10-11 17:02 G 5293781.09 5293781.21 5293781.34 0.0089 0.0043

Neptune 9782-01-07 18:43 G 5293869.17 5293869.28 5293869.41 0.0089 0.0050

Neptune 9782-04-05 20:23 G 5293957.25 5293957.35 5293957.47 0.0089 0.0057

Neptune 9782-07-02 22:04 G 5294045.33 5294045.42 5294045.53 0.0089 0.0065

Moon 9782-08-06 08:52 G 5294079.73 5294079.87 5294080.00 0.2677 0.0930

Earth 9782-08-06 09:36 G 5294079.76 5294079.90 5294080.03 0.2671 0.0923 *

Neptune 9782-09-29 00:00 G 5294133.42 5294133.50 5294133.58 0.0089 0.0072

Neptune 9782-12-26 01:26 G 5294221.51 5294221.56 5294221.63 0.0089 0.0079

Neptune 9783-03-24 03:07 G 5294309.61 5294309.63 5294309.68 0.0089 0.0086

Earth 9786-02-12 21:07 G 5295366.33 5295366.38 5295366.42 0.2664 0.2442

Moon 9786-02-12 21:50 G 5295366.38 5295366.41 5295366.44 0.2661 0.2540 *

Mars 9786-03-22 00:57 G 5295403.41 5295403.54 5295403.68 0.1621 0.0893

Mars 9787-01-31 23:45 G 5295719.37 5295719.49 5295719.61 0.1917 0.0221

Jupiter 9787-03-02 21:07 G 5295749.24 5295749.38 5295749.52 0.0485 0.0243

Jupiter 9787-05-31 16:33 G 5295839.08 5295839.19 5295839.31 0.0484 0.0354

Saturn 9788-02-14 18:28 G 5296098.17 5296098.27 5296098.37 0.0285 0.0222

Saturn 9788-05-13 12:14 G 5296186.86 5296187.01 5296187.17 0.0284 0.0096

Saturn 9788-08-10 06:43 G 5296275.61 5296275.78 5296275.94 0.0284 0.0035

Saturn 9788-11-07 01:11 G 5296364.42 5296364.55 5296364.69 0.0284 0.0168

Uranus 9788-11-08 22:48 G 5296366.41 5296366.45 5296366.51 0.0144 0.0137

Uranus 9789-02-05 05:45 G 5296454.63 5296454.74 5296454.86 0.0144 0.0111

Uranus 9789-05-04 12:28 G 5296542.89 5296543.02 5296543.17 0.0144 0.0084

Uranus	9789-07-31 19:26 G	5296631.16	5296631.31	5296631.48	0.0144	0.0057
Uranus	9789-10-28 02:23 G	5296719.43	5296719.60	5296719.78	0.0144	0.0030
Uranus	9790-01-24 09:36 G	5296807.72	5296807.90	5296808.08	0.0144	0.0003
Uranus	9790-04-22 16:33 G	5296896.02	5296896.19	5296896.37	0.0144	0.0025
Uranus	9790-07-19 23:31 G	5296984.32	5296984.48	5296984.65	0.0144	0.0053
Uranus	9790-10-16 06:28 G	5297072.64	5297072.77	5297072.93	0.0144	0.0081
Uranus	9791-01-12 13:55 G	5297160.97	5297161.08	5297161.20	0.0144	0.0108
Uranus	9791-04-10 21:21 G	5297249.33	5297249.39	5297249.44	0.0144	0.0136
Jupiter	9793-02-04 03:50 G	5297914.60	5297914.66	5297914.73	0.0543	0.0475
Moon	9793-02-05 17:31 G	5297916.14	5297916.23	5297916.31	0.2666	0.1816
Earth	9793-02-05 17:31 G	5297916.15	5297916.23	5297916.32	0.2660	0.1735 *
Jupiter	9793-05-04 17:45 G	5298004.12	5298004.24	5298004.37	0.0544	0.0225
Venus	9793-10-25 22:48 G	5298178.38	5298178.45	5298178.53	0.3683	0.2605
Moon	9795-08-09 12:28 G	5298830.90	5298831.02	5298831.14	0.2676	0.1458
Earth	9795-08-09 12:28 G	5298830.90	5298831.02	5298831.14	0.2670	0.1533 *
Mars	9795-08-12 04:33 G	5298833.54	5298833.69	5298833.85	0.1617	0.0169
Mars	9796-06-23 06:43 G	5299149.67	5299149.78	5299149.90	0.1921	0.0640
Jupiter	9798-12-19 22:33 G	5300059.34	5300059.44	5300059.54	0.0485	0.0382
Jupiter	9799-03-19 17:31 G	5300149.08	5300149.23	5300149.38	0.0484	0.0208
Venus	9799-05-11 16:48 G	5300202.10	5300202.20	5300202.31	0.3683	0.1242
Venus	9800-11-23 17:45 G	5300763.13	5300763.24	5300763.36	0.3688	0.1919
Saturn	9803-03-18 01:11 G	5301607.46	5301607.55	5301607.65	0.0274	0.0207
Saturn	9803-06-14 14:38 G	5301695.98	5301696.11	5301696.25	0.0274	0.0102
Saturn	9803-09-11 04:04 G	5301784.52	5301784.67	5301784.81	0.0275	0.0006
Saturn	9803-12-08 17:02 G	5301873.08	5301873.21	5301873.34	0.0275	0.0105
Saturn	9804-03-06 05:45 G	5301961.65	5301961.74	5301961.84	0.0275	0.0207
Venus	9804-11-25 10:33 G	5302225.83	5302225.94	5302226.05	0.3684	0.0107
Mars	9805-01-02 08:38 G	5302263.71	5302263.86	5302264.00	0.1614	0.0541
Jupiter	9805-02-21 20:38 G	5302314.22	5302314.36	5302314.50	0.0544	0.0060
Mars	9805-11-14 13:26 G	5302579.99	5302580.06	5302580.13	0.1925	0.1537

Earth	9806-02-09 12:28 G	5302666.91	5302667.02	5302667.14	0.2661	0.0221	
Moon	9806-02-09 12:57 G	5302666.93	5302667.04	5302667.16	0.2667	0.0095	*
Venus	9806-06-09 18:57 G	5302787.15	5302787.29	5302787.42	0.3687	0.0316	
Venus	9810-06-11 04:04 G	5304249.57	5304249.67	5304249.78	0.3684	0.1365	
Jupiter	9811-01-06 18:00 G	5304459.09	5304459.25	5304459.42	0.0484	0.0057	
Venus	9811-12-24 20:38 G	5304811.27	5304811.36	5304811.45	0.3686	0.2677	
Mars	9814-05-25 12:43 G	5305693.93	5305694.03	5305694.13	0.1611	0.1228	
Venus	9815-12-25 21:36 G	5306273.32	5306273.40	5306273.47	0.3685	0.2602	
Jupiter	9816-12-10 23:16 G	5306624.34	5306624.47	5306624.61	0.0544	0.0104	
Mars	9817-03-12 16:33 G	5306716.09	5306716.19	5306716.28	0.1911	0.1129	
Saturn	9817-07-04 17:02 G	5306830.16	5306830.21	5306830.26	0.0285	0.0271	
Saturn	9817-10-01 10:33 G	5306918.81	5306918.94	5306919.09	0.0285	0.0146	
Saturn	9817-12-29 04:48 G	5307007.53	5307007.70	5307007.86	0.0284	0.0017	
Saturn	9818-03-27 23:16 G	5307096.32	5307096.47	5307096.62	0.0284	0.0115	
Saturn	9818-06-24 18:00 G	5307185.17	5307185.25	5307185.33	0.0284	0.0249	
Earth	9819-02-12 07:26 G	5307417.71	5307417.81	5307417.91	0.2663	0.1287	
Moon	9819-02-12 08:09 G	5307417.74	5307417.84	5307417.94	0.2663	0.1339	*
Jupiter	9822-10-25 18:57 G	5308769.13	5308769.29	5308769.45	0.0485	0.0089	
Mars	9825-09-21 01:40 G	5309830.45	5309830.57	5309830.70	0.1621	0.0993	
Mars	9826-08-02 23:45 G	5310146.37	5310146.49	5310146.61	0.1916	0.0299	
Moon	9828-08-07 15:07 G	5310881.99	5310882.13	5310882.27	0.2678	0.0604	
Earth	9828-08-07 15:36 G	5310882.01	5310882.15	5310882.29	0.2671	0.0435	*
Jupiter	9828-09-29 01:40 G	5310934.45	5310934.57	5310934.69	0.0543	0.0275	
Jupiter	9828-12-27 14:52 G	5311024.04	5311024.12	5311024.21	0.0543	0.0413	
Uranus	9831-11-17 12:57 G	5312078.98	5312079.04	5312079.12	0.0134	0.0117	
Uranus	9832-02-13 16:33 G	5312167.10	5312167.19	5312167.29	0.0134	0.0099	
Uranus	9832-05-11 20:23 G	5312255.24	5312255.35	5312255.46	0.0134	0.0081	
Saturn	9832-08-04 01:55 G	5312339.52	5312339.58	5312339.65	0.0274	0.0245	
Uranus	9832-08-07 23:45 G	5312343.37	5312343.49	5312343.62	0.0134	0.0064	
Saturn	9832-10-31 15:36 G	5312428.02	5312428.15	5312428.28	0.0275	0.0139	

Uranus 9832-11-04 03:21 G 5312431.51 5312431.64 5312431.78 0.0134 0.0046

Saturn 9833-01-28 05:02 G 5312516.56 5312516.71 5312516.85 0.0275 0.0034

Uranus 9833-01-31 06:57 G 5312519.66 5312519.79 5312519.93 0.0134 0.0029

Saturn 9833-04-26 18:14 G 5312605.12 5312605.26 5312605.40 0.0275 0.0070

Uranus 9833-04-29 10:33 G 5312607.80 5312607.94 5312608.08 0.0134 0.0011

Saturn 9833-07-24 06:57 G 5312693.68 5312693.79 5312693.91 0.0276 0.0172

Uranus 9833-07-26 14:09 G 5312695.95 5312696.09 5312696.23 0.0134 0.0008

Saturn 9833-10-20 19:40 G 5312782.30 5312782.32 5312782.34 0.0276 0.0272

Uranus 9833-10-22 17:31 G 5312784.09 5312784.23 5312784.37 0.0134 0.0024

Uranus 9834-01-18 20:52 G 5312872.24 5312872.37 5312872.51 0.0134 0.0042

Uranus 9834-04-17 00:28 G 5312960.39 5312960.52 5312960.64 0.0134 0.0059

Uranus 9834-07-14 03:50 G 5313048.55 5313048.66 5313048.78 0.0135 0.0076

Jupiter 9834-08-13 19:40 G 5313079.18 5313079.32 5313079.46 0.0485 0.0237

Uranus 9834-10-10 07:11 G 5313136.71 5313136.80 5313136.90 0.0135 0.0093

Jupiter 9834-11-11 15:07 G 5313169.02 5313169.13 5313169.24 0.0485 0.0362

Uranus 9835-01-06 10:33 G 5313224.87 5313224.94 5313225.02 0.0135 0.0110

Mars 9835-02-11 05:16 G 5313260.56 5313260.72 5313260.87 0.1617 0.0261

Uranus 9835-04-04 13:55 G 5313313.04 5313313.08 5313313.13 0.0135 0.0127

Mars 9835-12-24 06:43 G 5313576.66 5313576.78 5313576.89 0.1921 0.0570

Earth 9839-02-07 22:33 G 5314718.34 5314718.44 5314718.54 0.2660 0.1413

Moon 9839-02-07 22:33 G 5314718.35 5314718.44 5314718.54 0.2666 0.1362 *

Jupiter 9840-07-18 03:21 G 5315244.57 5315244.64 5315244.72 0.0543 0.0455

Jupiter 9840-10-15 17:16 G 5315334.10 5315334.22 5315334.34 0.0543 0.0242

Earth 9841-08-10 18:28 G 5315633.18 5315633.27 5315633.37 0.2670 0.2027

Moon 9841-08-10 18:43 G 5315633.20 5315633.28 5315633.37 0.2676 0.2155 *

Mars 9844-07-03 08:52 G 5316690.72 5316690.87 5316691.02 0.1614 0.0457

Venus 9844-11-17 02:52 G 5316827.60 5316827.62 5316827.65 0.3682 0.3565

Mars 9845-05-15 13:40 G 5317006.99 5317007.07 5317007.15 0.1925 0.1441

Jupiter 9846-06-01 20:52 G 5317389.27 5317389.37 5317389.47 0.0485 0.0377

Jupiter 9846-08-30 15:50 G 5317479.01 5317479.16 5317479.31 0.0485 0.0214

Saturn 9847-02-18 11:45 G 5317650.87 5317650.99 5317651.12 0.0285 0.0178

Saturn 9847-05-18 05:45 G 5317739.58 5317739.74 5317739.91 0.0284 0.0050

Saturn 9847-08-15 00:14 G 5317828.35 5317828.51 5317828.67 0.0284 0.0081

Saturn 9847-11-11 18:57 G 5317917.18 5317917.29 5317917.40 0.0284 0.0215

Venus 9850-06-02 21:07 G 5318851.29 5318851.38 5318851.47 0.3683 0.2174

Venus 9851-12-15 17:02 G 5319412.16 5319412.21 5319412.26 0.3688 0.3394

Earth 9852-02-10 17:31 G 5319469.11 5319469.23 5319469.35 0.2661 0.0109

Moon 9852-02-10 18:00 G 5319469.14 5319469.25 5319469.37 0.2667 0.0123 *

Jupiter 9852-08-03 18:43 G 5319644.15 5319644.28 5319644.42 0.0544 0.0061

Mars 9853-11-23 12:57 G 5320120.94 5320121.04 5320121.15 0.1611 0.1144

Venus 9855-12-17 14:52 G 5320875.02 5320875.12 5320875.23 0.3683 0.0831

Mars 9856-09-10 16:48 G 5321143.11 5321143.20 5321143.29 0.1911 0.1217

Venus 9857-06-30 17:45 G 5321436.11 5321436.24 5321436.37 0.3687 0.1260

Jupiter 9858-06-18 16:48 G 5321789.04 5321789.20 5321789.37 0.0484 0.0071

Neptune 9859-11-26 03:07 G 5322314.58 5322314.63 5322314.71 0.0088 0.0081

Neptune 9860-02-22 05:31 G 5322402.66 5322402.73 5322402.84 0.0088 0.0073

Neptune 9860-05-20 08:09 G 5322490.74 5322490.84 5322490.97 0.0088 0.0065

Neptune 9860-08-16 11:02 G 5322578.83 5322578.96 5322579.09 0.0088 0.0056

Neptune 9860-11-12 13:26 G 5322666.92 5322667.06 5322667.21 0.0088 0.0048

Neptune 9861-02-08 15:50 G 5322755.02 5322755.16 5322755.32 0.0088 0.0040

Neptune 9861-05-07 18:28 G 5322843.12 5322843.27 5322843.44 0.0088 0.0032

Venus 9861-07-02 08:38 G 5322898.75 5322898.86 5322898.97 0.3684 0.0482

Neptune 9861-08-03 21:07 G 5322931.22 5322931.38 5322931.55 0.0088 0.0024

Moon 9861-08-05 18:00 G 5322933.20 5322933.25 5322933.29 0.2676 0.2517

Earth 9861-08-05 18:57 G 5322933.23 5322933.29 5322933.36 0.2672 0.2347 *

Neptune 9861-10-30 23:45 G 5323019.32 5323019.49 5323019.66 0.0088 0.0015

Saturn 9861-12-22 04:19 G 5323071.66 5323071.68 5323071.70 0.0274 0.0270

Neptune 9862-01-27 02:23 G 5323107.43 5323107.60 5323107.77 0.0088 0.0007

Saturn 9862-03-20 18:00 G 5323160.14 5323160.25 5323160.37 0.0274 0.0164

Neptune 9862-04-25 05:02 G 5323195.54 5323195.71 5323195.88 0.0088 0.0002

Saturn 9862-06-17 07:26 G 5323248.67 5323248.81 5323248.95 0.0274 0.0059

Neptune 9862-07-22 07:40 G 5323283.65 5323283.82 5323283.99 0.0088 0.0010

Saturn 9862-09-13 20:38 G 5323337.22 5323337.36 5323337.50 0.0275 0.0044

Neptune 9862-10-18 10:04 G 5323371.76 5323371.92 5323372.10 0.0088 0.0019

Saturn 9862-12-11 09:36 G 5323425.78 5323425.90 5323426.02 0.0275 0.0146

Neptune 9863-01-14 12:43 G 5323459.87 5323460.03 5323460.20 0.0088 0.0027

Venus 9863-01-14 18:57 G 5323460.16 5323460.29 5323460.43 0.3686 0.1019 *

Saturn 9863-03-09 22:19 G 5323514.37 5323514.43 5323514.49 0.0275 0.0246

Neptune 9863-04-12 15:21 G 5323547.99 5323548.14 5323548.31 0.0088 0.0036

Neptune 9863-07-09 18:00 G 5323636.11 5323636.25 5323636.41 0.0088 0.0044

Neptune 9863-10-05 20:38 G 5323724.23 5323724.36 5323724.51 0.0088 0.0053

Neptune 9864-01-01 23:31 G 5323812.36 5323812.48 5323812.60 0.0088 0.0061

Neptune 9864-03-30 01:55 G 5323900.49 5323900.58 5323900.70 0.0088 0.0070

Jupiter 9864-05-22 21:21 G 5323954.26 5323954.39 5323954.53 0.0544 0.0109

Neptune 9864-06-26 04:33 G 5323988.63 5323988.69 5323988.78 0.0088 0.0079

Neptune 9864-09-22 07:26 G 5324076.80 5324076.81 5324076.84 0.0088 0.0087

Earth 9865-02-12 12:14 G 5324219.92 5324220.01 5324220.10 0.2663 0.1595

Moon 9865-02-12 13:11 G 5324219.96 5324220.05 5324220.13 0.2662 0.1772 *

Mars 9865-03-22 02:09 G 5324257.47 5324257.59 5324257.71 0.1621 0.1086

Mars 9866-01-31 23:45 G 5324573.37 5324573.49 5324573.61 0.1916 0.0376

Venus 9867-01-16 02:09 G 5324922.49 5324922.59 5324922.69 0.3684 0.1751

Venus 9868-07-30 21:07 G 5325484.33 5325484.38 5325484.42 0.3686 0.3417

Jupiter 9870-04-06 17:31 G 5326099.07 5326099.23 5326099.40 0.0485 0.0080

Earth 9872-02-06 08:38 G 5326769.84 5326769.86 5326769.87 0.2659 0.2633

Venus 9872-07-31 19:26 G 5326946.25 5326946.31 5326946.37 0.3685 0.2979

Uranus 9872-11-30 06:00 G 5327067.69 5327067.75 5327067.82 0.0144 0.0132

Uranus 9873-02-26 12:43 G 5327155.92 5327156.03 5327156.16 0.0144 0.0105

Uranus 9873-05-25 19:40 G 5327244.18 5327244.32 5327244.47 0.0144 0.0078

Uranus 9873-08-22 02:38 G 5327332.45 5327332.61 5327332.77 0.0144 0.0051

Uranus 9873-11-18 09:36 G 5327420.73 5327420.90 5327421.07 0.0144 0.0024

Uranus 9874-02-14 16:33 G 5327509.01 5327509.19 5327509.37 0.0144 0.0003

Uranus 9874-05-13 23:31 G 5327597.31 5327597.48 5327597.66 0.0144 0.0031

Moon 9874-08-08 21:07 G 5327684.24 5327684.38 5327684.52 0.2677 0.0060

Earth 9874-08-08 21:36 G 5327684.26 5327684.40 5327684.55 0.2671 0.0074 *

Uranus 9874-08-10 06:43 G 5327685.62 5327685.78 5327685.94 0.0144 0.0058

Mars 9874-08-12 05:45 G 5327687.58 5327687.74 5327687.89 0.1617 0.0351

Uranus 9874-11-06 13:40 G 5327773.93 5327774.07 5327774.22 0.0144 0.0086

Uranus 9875-02-02 20:52 G 5327862.27 5327862.37 5327862.49 0.0144 0.0114

Uranus 9875-05-02 04:04 G 5327950.65 5327950.67 5327950.70 0.0144 0.0142

Mars 9875-06-24 06:57 G 5328003.67 5328003.79 5328003.90 0.1921 0.0475

Jupiter 9876-03-11 00:00 G 5328264.38 5328264.50 5328264.62 0.0544 0.0273

Jupiter 9876-06-08 13:40 G 5328353.98 5328354.07 5328354.15 0.0544 0.0418

Saturn 9876-07-07 10:04 G 5328382.83 5328382.92 5328383.02 0.0285 0.0228

Saturn 9876-10-04 04:04 G 5328471.52 5328471.67 5328471.82 0.0285 0.0101

Saturn 9876-12-31 22:19 G 5328560.26 5328560.43 5328560.59 0.0284 0.0030

Saturn 9877-03-30 16:48 G 5328649.06 5328649.20 5328649.34 0.0284 0.0161

Jupiter 9882-01-23 18:43 G 5330409.13 5330409.28 5330409.42 0.0485 0.0224

Jupiter 9882-04-23 14:09 G 5330498.98 5330499.09 5330499.19 0.0484 0.0373

Mars 9884-01-02 09:36 G 5331117.74 5331117.90 5331118.05 0.1614 0.0366

Mars 9884-11-13 13:26 G 5331433.98 5331434.06 5331434.15 0.1925 0.1371

Moon 9885-02-08 03:50 G 5331520.55 5331520.66 5331520.76 0.2667 0.1104

Earth 9885-02-08 03:36 G 5331520.55 5331520.65 5331520.76 0.2660 0.1087 *

Pluto 9887-01-29 07:26 G 5332240.78 5332240.81 5332240.87 0.0071 0.0067

Pluto 9887-04-27 08:23 G 5332328.78 5332328.85 5332328.93 0.0071 0.0058

Pluto 9887-07-24 09:07 G 5332416.79 5332416.88 5332416.99 0.0071 0.0049

Earth 9887-08-12 00:43 G 5332435.49 5332435.53 5332435.57 0.2669 0.2533

Moon 9887-08-12 01:26 G 5332435.51 5332435.56 5332435.60 0.2675 0.2534 *

Pluto 9887-10-20 09:50 G 5332504.81 5332504.91 5332505.03 0.0071 0.0040

Jupiter 9887-12-29 02:23 G 5332574.52 5332574.60 5332574.68 0.0543 0.0444

Pluto 9888-01-16 10:33 G 5332592.83 5332592.94 5332593.07 0.0071 0.0031

Jupiter	9888-03-27 16:19	G	5332664.05	5332664.18	5332664.30	0.0543	0.0254
Pluto	9888-04-13 11:31	G	5332680.85	5332680.98	5332681.11	0.0071	0.0022
Pluto	9888-07-10 12:14	G	5332768.88	5332769.01	5332769.15	0.0072	0.0013
Pluto	9888-10-06 12:57	G	5332856.91	5332857.04	5332857.18	0.0072	0.0004
Pluto	9889-01-02 13:55	G	5332944.94	5332945.08	5332945.21	0.0072	0.0006
Pluto	9889-03-31 14:38	G	5333032.98	5333033.11	5333033.24	0.0072	0.0015
Pluto	9889-06-27 15:21	G	5333121.01	5333121.14	5333121.27	0.0072	0.0025
Pluto	9889-09-23 16:04	G	5333209.06	5333209.17	5333209.30	0.0072	0.0035
Pluto	9889-12-20 16:48	G	5333297.10	5333297.20	5333297.32	0.0072	0.0044
Pluto	9890-03-18 17:45	G	5333385.15	5333385.24	5333385.33	0.0072	0.0054
Pluto	9890-06-14 18:28	G	5333473.21	5333473.27	5333473.34	0.0073	0.0064
Saturn	9891-08-07 18:14	G	5333892.17	5333892.26	5333892.37	0.0274	0.0205
Saturn	9891-11-04 07:55	G	5333980.70	5333980.83	5333980.97	0.0275	0.0099
Saturn	9892-01-31 21:21	G	5334069.24	5334069.39	5334069.53	0.0275	0.0008
Saturn	9892-04-29 10:19	G	5334157.80	5334157.93	5334158.06	0.0275	0.0108
Saturn	9892-07-26 23:02	G	5334246.37	5334246.46	5334246.56	0.0276	0.0210
Mars	9893-05-24 13:40	G	5334547.95	5334548.07	5334548.18	0.1611	0.1057
Jupiter	9893-11-11 19:26	G	5334719.21	5334719.31	5334719.42	0.0485	0.0369
Jupiter	9894-02-09 14:23	G	5334808.96	5334809.10	5334809.25	0.0485	0.0223
Mars	9896-03-11 16:33	G	5335570.11	5335570.19	5335570.28	0.1911	0.1288
Earth	9898-02-10 22:33	G	5336271.32	5336271.44	5336271.55	0.2661	0.0427
Moon	9898-02-10 23:02	G	5336271.35	5336271.46	5336271.58	0.2665	0.0573 *
Jupiter	9900-01-14 18:28	G	5336974.13	5336974.27	5336974.40	0.0543	0.0081
Venus	9901-06-25 01:11	G	5337500.49	5337500.55	5337500.60	0.3682	0.3131
Mars	9904-09-21 02:38	G	5338684.50	5338684.61	5338684.72	0.1621	0.1174
Mars	9905-08-03 00:00	G	5339000.38	5339000.50	5339000.61	0.1916	0.0466
Saturn	9905-11-25 11:02	G	5339114.90	5339114.96	5339115.02	0.0285	0.0262
Jupiter	9905-11-29 15:21	G	5339118.98	5339119.14	5339119.31	0.0485	0.0078
Saturn	9906-02-22 04:48	G	5339203.56	5339203.70	5339203.84	0.0285	0.0136
Saturn	9906-05-21 22:48	G	5339292.29	5339292.45	5339292.62	0.0284	0.0010

Saturn	9906-08-18 17:16 G	5339381.08	5339381.22	5339381.37	0.0284	0.0125
Saturn	9906-11-15 12:14 G	5339469.95	5339470.01	5339470.08	0.0284	0.0259
Venus	9907-01-08 19:11 G	5339524.20	5339524.30	5339524.40	0.3683	0.1749
Moon	9907-08-08 00:00 G	5339735.41	5339735.50	5339735.59	0.2677	0.2021
Earth	9907-08-08 00:57 G	5339735.44	5339735.54	5339735.64	0.2672	0.1872 *
Venus	9908-07-22 17:02 G	5340085.12	5340085.21	5340085.29	0.3688	0.2754
Earth	9911-02-14 17:16 G	5341022.14	5341022.22	5341022.30	0.2663	0.1906
Moon	9911-02-14 18:00 G	5341022.18	5341022.25	5341022.33	0.2662	0.1950 *
Jupiter	9911-11-03 19:40 G	5341284.19	5341284.32	5341284.46	0.0544	0.0109
Venus	9912-07-24 12:57 G	5341547.93	5341548.04	5341548.15	0.3683	0.0419
Venus	9914-02-05 17:45 G	5342109.11	5342109.24	5342109.37	0.3687	0.0587
Mars	9914-02-11 06:14 G	5342114.60	5342114.76	5342114.91	0.1618	0.0439
Mars	9914-12-24 06:57 G	5342430.67	5342430.79	5342430.91	0.1921	0.0394
Uranus	9915-09-11 16:04 G	5342692.16	5342692.17	5342692.21	0.0134	0.0132
Uranus	9915-12-08 19:40 G	5342780.26	5342780.32	5342780.41	0.0134	0.0114
Uranus	9916-03-05 23:31 G	5342868.39	5342868.48	5342868.58	0.0134	0.0096
Uranus	9916-06-02 03:07 G	5342956.52	5342956.63	5342956.75	0.0134	0.0078
Uranus	9916-08-29 06:43 G	5343044.66	5343044.78	5343044.91	0.0134	0.0060
Uranus	9916-11-25 10:19 G	5343132.80	5343132.93	5343133.07	0.0134	0.0043
Uranus	9917-02-21 13:55 G	5343220.94	5343221.08	5343221.22	0.0134	0.0025
Uranus	9917-05-20 17:31 G	5343309.09	5343309.23	5343309.37	0.0134	0.0008
Uranus	9917-08-16 20:52 G	5343397.23	5343397.37	5343397.51	0.0134	0.0010
Jupiter	9917-09-17 16:33 G	5343429.03	5343429.19	5343429.36	0.0485	0.0067
Uranus	9917-11-13 00:28 G	5343485.38	5343485.52	5343485.65	0.0134	0.0027
Venus	9918-02-07 06:43 G	5343571.67	5343571.78	5343571.88	0.3684	0.0886
Moon	9918-02-07 13:11 G	5343572.00	5343572.05	5343572.10	0.2665	0.2350
Earth	9918-02-07 13:40 G	5343572.01	5343572.07	5343572.12	0.2659	0.2304 *
Uranus	9918-02-09 03:50 G	5343573.53	5343573.66	5343573.79	0.0134	0.0044
Uranus	9918-05-08 07:11 G	5343661.68	5343661.80	5343661.93	0.0134	0.0062
Uranus	9918-08-04 10:48 G	5343749.84	5343749.95	5343750.06	0.0135	0.0079

Uranus 9918-10-31 14:09 G 5343838.00 5343838.09 5343838.19 0.0135 0.0096

Uranus 9919-01-27 17:31 G 5343926.16 5343926.23 5343926.31 0.0135 0.0113

Uranus 9919-04-25 20:52 G 5344014.34 5344014.37 5344014.41 0.0135 0.0130

Venus 9919-08-22 19:11 G 5344133.18 5344133.30 5344133.42 0.3686 0.1728

Moon 9920-08-10 03:21 G 5344486.50 5344486.64 5344486.78 0.2677 0.0437

Earth 9920-08-10 03:36 G 5344486.51 5344486.65 5344486.80 0.2671 0.0539 *

Saturn 9920-12-25 20:52 G 5344624.30 5344624.37 5344624.45 0.0274 0.0229

Saturn 9921-03-24 10:33 G 5344712.81 5344712.94 5344713.07 0.0274 0.0123

Saturn 9921-06-20 23:45 G 5344801.35 5344801.49 5344801.64 0.0274 0.0021

Saturn 9921-09-17 12:57 G 5344889.90 5344890.04 5344890.18 0.0275 0.0084

Saturn 9921-12-15 01:40 G 5344978.47 5344978.57 5344978.68 0.0275 0.0185

Mars 9923-07-04 10:04 G 5345544.76 5345544.92 5345545.07 0.1614 0.0273

Jupiter 9923-08-22 22:04 G 5345594.30 5345594.42 5345594.54 0.0544 0.0278

Venus 9923-08-24 00:00 G 5345595.42 5345595.50 5345595.59 0.3685 0.2144

Jupiter 9923-11-20 11:45 G 5345683.90 5345683.99 5345684.07 0.0544 0.0414

Mars 9924-05-15 13:40 G 5345860.98 5345861.07 5345861.16 0.1925 0.1279

Venus 9929-03-08 17:16 G 5347619.18 5347619.22 5347619.27 0.3685 0.3355

Jupiter 9929-07-06 17:31 G 5347739.08 5347739.23 5347739.38 0.0485 0.0212

Jupiter 9929-10-04 12:57 G 5347828.94 5347829.04 5347829.14 0.0484 0.0384

Earth 9931-02-10 08:38 G 5348322.75 5348322.86 5348322.97 0.2660 0.0767

Moon 9931-02-10 08:52 G 5348322.76 5348322.87 5348322.98 0.2667 0.0715 *

Mars 9932-11-23 14:09 G 5348974.96 5348975.09 5348975.21 0.1611 0.0968

Jupiter 9935-06-11 00:43 G 5349904.45 5349904.53 5349904.61 0.0543 0.0443

Saturn 9935-07-12 03:07 G 5349935.51 5349935.63 5349935.76 0.0285 0.0185

Jupiter 9935-09-08 14:38 G 5349994.00 5349994.11 5349994.24 0.0544 0.0258

Mars 9935-09-11 16:48 G 5349997.12 5349997.20 5349997.28 0.1911 0.1374

Saturn 9935-10-08 21:07 G 5350024.22 5350024.38 5350024.54 0.0285 0.0058

Saturn 9936-01-05 15:21 G 5350112.98 5350113.14 5350113.30 0.0284 0.0073

Saturn 9936-04-03 09:50 G 5350201.81 5350201.91 5350202.04 0.0284 0.0206

Jupiter 9941-04-24 18:43 G 5352049.17 5352049.28 5352049.39 0.0485 0.0354

Jupiter 9941-07-23 13:40 G 5352138.92 5352139.07 5352139.21 0.0484 0.0236

Neptune 9942-06-04 10:04 G 5352454.88 5352454.92 5352454.99 0.0089 0.0083

Neptune 9942-08-31 12:14 G 5352542.93 5352543.01 5352543.09 0.0089 0.0075

Neptune 9942-11-27 13:40 G 5352630.99 5352631.07 5352631.19 0.0089 0.0068

Neptune 9943-02-23 15:50 G 5352719.06 5352719.16 5352719.28 0.0089 0.0059

Neptune 9943-05-22 17:45 G 5352807.12 5352807.24 5352807.36 0.0089 0.0052

Neptune 9943-08-18 19:26 G 5352895.19 5352895.31 5352895.44 0.0089 0.0044

Neptune 9943-11-14 21:21 G 5352983.26 5352983.39 5352983.53 0.0089 0.0036

Neptune 9944-02-10 23:16 G 5353071.33 5353071.47 5353071.61 0.0089 0.0029

Earth 9944-02-13 03:36 G 5353073.53 5353073.65 5353073.76 0.2662 0.0747

Moon 9944-02-13 04:19 G 5353073.57 5353073.68 5353073.79 0.2664 0.0803 *

Mars 9944-03-22 03:07 G 5353111.54 5353111.63 5353111.73 0.1621 0.1271

Neptune 9944-05-09 00:57 G 5353159.40 5353159.54 5353159.68 0.0089 0.0021

Neptune 9944-08-05 02:38 G 5353247.47 5353247.61 5353247.76 0.0089 0.0014

Neptune 9944-11-01 04:33 G 5353335.54 5353335.69 5353335.84 0.0089 0.0006

Neptune 9945-01-28 06:14 G 5353423.62 5353423.76 5353423.91 0.0089 0.0003

Mars 9945-02-01 00:00 G 5353427.38 5353427.50 5353427.61 0.1916 0.0541

Neptune 9945-04-26 08:09 G 5353511.69 5353511.84 5353511.98 0.0089 0.0009

Neptune 9945-07-23 09:50 G 5353599.77 5353599.91 5353600.05 0.0089 0.0016

Neptune 9945-10-19 11:31 G 5353687.84 5353687.98 5353688.12 0.0089 0.0024

Neptune 9946-01-15 13:11 G 5353775.92 5353776.05 5353776.19 0.0089 0.0031

Neptune 9946-04-13 15:07 G 5353864.00 5353864.13 5353864.26 0.0089 0.0039

Neptune 9946-07-10 16:33 G 5353952.08 5353952.19 5353952.32 0.0089 0.0046

Neptune 9946-10-06 18:14 G 5354040.16 5354040.26 5354040.39 0.0089 0.0054

Neptune 9947-01-02 20:09 G 5354128.24 5354128.34 5354128.45 0.0089 0.0061

Neptune 9947-03-31 21:50 G 5354216.32 5354216.41 5354216.51 0.0089 0.0068

Jupiter 9947-06-27 17:31 G 5354304.09 5354304.23 5354304.36 0.0544 0.0094

Neptune 9947-06-27 23:16 G 5354304.41 5354304.47 5354304.56 0.0089 0.0076

Neptune 9947-09-24 00:57 G 5354392.50 5354392.54 5354392.61 0.0089 0.0083

Saturn 9950-05-14 21:07 G 5355356.36 5355356.38 5355356.40 0.0274 0.0270

Saturn 9950-08-11 10:48 G 5355444.83 5355444.95 5355445.07 0.0274 0.0164

Saturn 9950-11-08 00:14 G 5355533.37 5355533.51 5355533.66 0.0275 0.0059

Saturn 9951-02-04 13:26 G 5355621.92 5355622.06 5355622.21 0.0275 0.0045

Saturn 9951-05-04 02:23 G 5355710.48 5355710.60 5355710.72 0.0275 0.0146

Saturn 9951-07-31 15:07 G 5355799.07 5355799.13 5355799.20 0.0276 0.0246

Jupiter 9953-05-11 14:09 G 5356448.93 5356449.09 5356449.26 0.0485 0.0086

Moon 9953-08-08 06:00 G 5356537.63 5356537.75 5356537.87 0.2677 0.1496

Earth 9953-08-08 06:57 G 5356537.67 5356537.79 5356537.91 0.2672 0.1400 *

Mars 9953-08-12 06:43 G 5356541.63 5356541.78 5356541.93 0.1618 0.0533

Mars 9954-06-24 06:57 G 5356857.67 5356857.79 5356857.91 0.1921 0.0315

Uranus 9956-12-21 13:11 G 5357768.97 5357769.05 5357769.13 0.0144 0.0126

Earth 9957-02-14 22:19 G 5357824.37 5357824.43 5357824.49 0.2663 0.2220

Moon 9957-02-14 23:02 G 5357824.41 5357824.46 5357824.51 0.2662 0.2388 *

Uranus 9957-03-19 19:55 G 5357857.21 5357857.33 5357857.46 0.0144 0.0099

Uranus 9957-06-16 02:52 G 5357945.47 5357945.62 5357945.77 0.0144 0.0072

Uranus 9957-09-12 09:50 G 5358033.74 5358033.91 5358034.07 0.0144 0.0046

Uranus 9957-12-09 16:48 G 5358122.02 5358122.20 5358122.37 0.0144 0.0019

Venus 9958-01-29 23:16 G 5358173.39 5358173.47 5358173.55 0.3683 0.2693

Uranus 9958-03-07 23:45 G 5358210.31 5358210.49 5358210.66 0.0144 0.0009

Uranus 9958-06-04 06:43 G 5358298.61 5358298.78 5358298.95 0.0144 0.0036

Uranus 9958-08-31 13:40 G 5358386.92 5358387.07 5358387.24 0.0144 0.0064

Uranus 9958-11-27 20:38 G 5358475.24 5358475.36 5358475.51 0.0144 0.0092

Uranus 9959-02-24 03:50 G 5358563.57 5358563.66 5358563.77 0.0144 0.0120

Jupiter 9959-04-15 19:26 G 5358614.18 5358614.31 5358614.45 0.0543 0.0083

Mars 9963-01-02 10:19 G 5359971.78 5359971.93 5359972.09 0.1614 0.0192

Venus 9963-08-15 17:16 G 5360197.12 5360197.22 5360197.33 0.3683 0.1326

Mars 9963-11-14 13:55 G 5360287.98 5360288.08 5360288.17 0.1925 0.1191

Moon 9964-02-08 18:28 G 5360374.20 5360374.27 5360374.34 0.2666 0.2042

Earth 9964-02-08 18:43 G 5360374.20 5360374.28 5360374.35 0.2659 0.1977 *

Saturn 9964-11-28 03:21 G 5360667.55 5360667.64 5360667.74 0.0285 0.0224

Saturn	9965-02-24 21:21 G	5360756.24	5360756.39	5360756.54	0.0284	0.0097	
Venus	9965-02-26 16:48 G	5360758.10	5360758.20	5360758.31	0.3687	0.2109	
Jupiter	9965-02-27 15:21 G	5360758.97	5360759.14	5360759.30	0.0485	0.0057	
Saturn	9965-05-24 15:36 G	5360844.98	5360845.15	5360845.31	0.0284	0.0033	
Saturn	9965-08-21 10:04 G	5360933.79	5360933.92	5360934.06	0.0284	0.0165	
Moon	9966-08-11 09:36 G	5361288.77	5361288.90	5361289.03	0.2677	0.1041	
Earth	9966-08-11 09:50 G	5361288.77	5361288.91	5361289.04	0.2670	0.1028	*
Venus	9969-02-28 11:02 G	5362220.85	5362220.96	5362221.07	0.3684	0.0046	
Venus	9970-09-12 18:00 G	5362782.11	5362782.25	5362782.38	0.3687	0.0148	
Jupiter	9971-02-01 20:38 G	5362924.24	5362924.36	5362924.48	0.0543	0.0274	
Jupiter	9971-05-02 10:04 G	5363013.84	5363013.92	5363014.01	0.0544	0.0417	
Mars	9972-05-24 14:38 G	5363401.97	5363402.11	5363402.24	0.1611	0.0882	
Pluto	9972-09-20 23:45 G	5363521.42	5363521.49	5363521.58	0.0073	0.0065	
Pluto	9972-12-18 01:40 G	5363609.46	5363609.57	5363609.72	0.0073	0.0052	
Pluto	9973-03-16 04:19 G	5363697.52	5363697.68	5363697.84	0.0073	0.0038	
Pluto	9973-06-12 06:14 G	5363785.60	5363785.76	5363785.95	0.0073	0.0025	
Pluto	9973-09-08 08:38 G	5363873.68	5363873.86	5363874.05	0.0073	0.0011	
Pluto	9973-12-05 10:48 G	5363961.77	5363961.95	5363962.14	0.0072	0.0003	
Pluto	9974-03-03 12:57 G	5364049.86	5364050.04	5364050.23	0.0072	0.0015	
Pluto	9974-05-30 14:52 G	5364137.96	5364138.12	5364138.30	0.0072	0.0029	
Pluto	9974-08-26 17:02 G	5364226.06	5364226.21	5364226.37	0.0072	0.0041	
Venus	9974-09-14 04:48 G	5364244.59	5364244.70	5364244.80	0.3684	0.1289	
Pluto	9974-11-22 18:57 G	5364314.18	5364314.29	5364314.43	0.0072	0.0054	
Pluto	9975-02-18 20:52 G	5364402.33	5364402.37	5364402.46	0.0072	0.0067	
Mars	9975-03-12 16:48 G	5364424.13	5364424.20	5364424.28	0.1911	0.1460	
Venus	9976-03-28 19:26 G	5364806.21	5364806.31	5364806.42	0.3686	0.2448	
Jupiter	9976-12-16 16:33 G	5365069.04	5365069.19	5365069.34	0.0485	0.0197	
Earth	9977-02-10 13:40 G	5365124.95	5365125.07	5365125.18	0.2660	0.0448	
Moon	9977-02-10 13:55 G	5365124.97	5365125.08	5365125.19	0.2667	0.0410	*
Jupiter	9977-03-16 12:00 G	5365158.91	5365159.00	5365159.09	0.0484	0.0401	

Saturn	9979-12-29 13:26	G	5366176.96	5366177.06	5366177.17	0.0274	0.0188
Saturn	9980-03-27 02:52	G	5366265.49	5366265.62	5366265.76	0.0274	0.0083
Venus	9980-03-29 22:04	G	5366268.34	5366268.42	5366268.50	0.3685	0.2522
Saturn	9980-06-23 16:19	G	5366354.03	5366354.18	5366354.32	0.0274	0.0021
Saturn	9980-09-20 05:16	G	5366442.59	5366442.72	5366442.85	0.0275	0.0122
Saturn	9980-12-17 18:00	G	5366531.17	5366531.25	5366531.34	0.0275	0.0223
Mars	9981-10-14 18:57	G	5366832.25	5366832.29	5366832.32	0.1608	0.1555
Jupiter	9982-11-20 22:48	G	5367234.38	5367234.45	5367234.53	0.0543	0.0447
Jupiter	9983-02-18 12:57	G	5367323.92	5367324.04	5367324.16	0.0544	0.0253
Mars	9983-09-21 03:50	G	5367538.57	5367538.66	5367538.74	0.1621	0.1366
Mars	9984-08-02 00:00	G	5367854.39	5367854.50	5367854.61	0.1916	0.0625
Jupiter	9988-10-04 17:31	G	5369379.12	5369379.23	5369379.35	0.0485	0.0343
Jupiter	9989-01-02 12:28	G	5369468.88	5369469.02	5369469.16	0.0484	0.0248
Earth	9990-02-13 08:23	G	5369875.75	5369875.85	5369875.96	0.2662	0.1056
Moon	9990-02-13 09:07	G	5369875.78	5369875.88	5369875.99	0.2664	0.1205 *
Mars	9993-02-10 07:11	G	5370968.66	5370968.80	5370968.95	0.1618	0.0624
Mars	9993-12-23 07:11	G	5371284.68	5371284.80	5371284.92	0.1921	0.0231
Saturn	9994-04-17 02:09	G	5371399.55	5371399.59	5371399.65	0.0285	0.0270
Saturn	9994-07-14 19:55	G	5371488.19	5371488.33	5371488.47	0.0285	0.0144
Saturn	9994-10-11 13:55	G	5371576.92	5371577.08	5371577.25	0.0285	0.0017
Jupiter	9994-12-07 15:50	G	5371634.02	5371634.16	5371634.30	0.0544	0.0094
Saturn	9995-01-08 08:23	G	5371665.70	5371665.85	5371666.00	0.0284	0.0115
Saturn	9995-04-07 03:07	G	5371754.56	5371754.63	5371754.71	0.0284	0.0249
Moon	9999-08-09 12:00	G	5373339.87	5373340.00	5373340.13	0.2677	0.1096
Earth	9999-08-09 12:57	G	5373339.91	5373340.04	5373340.18	0.2672	0.0923 *
Uranus	9999-10-01 23:31	G	5373393.44	5373393.48	5373393.52	0.0134	0.0127
Uranus	9999-12-29 02:52	G	5373481.55	5373481.62	5373481.71	0.0134	0.0110
Uranus	10000-03-26 06:28	G	5373569.68	5373569.77	5373569.88	0.0134	0.0092
Uranus	10000-06-22 10:19	G	5373657.81	5373657.93	5373658.05	0.0134	0.0074
Jupiter	10000-07-23 18:57	G	5373689.28	5373689.29	5373689.30	0.0485	0.0482

Uranus 10000-09-18 13:55 G 5373745.95 5373746.08 5373746.21 0.0134 0.0056

Jupiter 10000-10-21 13:11 G 5373778.89 5373779.05 5373779.22 0.0484 0.0101

Uranus 10000-12-15 17:16 G 5373834.09 5373834.22 5373834.36 0.0134 0.0039

11TH MILLENNIUM CE

This is a list of transits of Mercury in the 11th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	**10001-03-13 20:52**	**G**	**5373922.23**	**5373922.37**	**5373922.51**	**0.0134**	**0.0022**	
Uranus	**10001-06-10 00:28**	**G**	**5374010.38**	**5374010.52**	**5374010.66**	**0.0134**	**0.0004**	
Uranus	**10001-09-06 04:04**	**G**	**5374098.53**	**5374098.67**	**5374098.81**	**0.0134**	**0.0014**	
Uranus	**10001-12-03 07:26**	**G**	**5374186.68**	**5374186.81**	**5374186.95**	**0.0134**	**0.0031**	
Uranus	**10002-03-01 10:48**	**G**	**5374274.83**	**5374274.95**	**5374275.09**	**0.0134**	**0.0049**	
Uranus	**10002-05-28 14:23**	**G**	**5374362.98**	**5374363.10**	**5374363.22**	**0.0134**	**0.0066**	
Mars	**10002-07-03 11:02**	**G**	**5374398.80**	**5374398.96**	**5374399.12**	**0.1614**	**0.0093**	
Uranus	**10002-08-24 17:45**	**G**	**5374451.14**	**5374451.24**	**5374451.35**	**0.0135**	**0.0083**	
Uranus	**10002-11-20 21:07**	**G**	**5374539.30**	**5374539.38**	**5374539.48**	**0.0135**	**0.0100**	
Earth	**10003-02-16 03:07**	**G**	**5374626.60**	**5374626.63**	**5374626.67**	**0.2663**	**0.2529**	
Moon	**10003-02-16 03:50**	**G**	**5374626.63**	**5374626.66**	**5374626.69**	**0.2661**	**0.2561**	*****
Uranus	**10003-02-17 00:28**	**G**	**5374627.46**	**5374627.52**	**5374627.60**	**0.0135**	**0.0117**	
Mars	**10003-05-15 13:55**	**G**	**5374714.98**	**5374715.08**	**5374715.18**	**0.1925**	**0.1112**	
Uranus	**10003-05-16 03:50**	**G**	**5374715.66**	**5374715.66**	**5374715.68**	**0.0135**	**0.0134**	
Jupiter	**10006-09-25 18:28**	**G**	**5375944.13**	**5375944.27**	**5375944.41**	**0.0543**	**0.0072**	
Venus	**10009-02-20 03:21**	**G**	**5376822.63**	**5376822.64**	**5376822.65**	**0.3682**	**0.3658**	

Saturn 10009-05-17 13:40 G 5376908.99 5376909.07 5376909.14 0.0274 0.0230

Saturn 10009-08-14 03:07 G 5376997.50 5376997.63 5376997.76 0.0274 0.0125

Saturn 10009-11-10 16:33 G 5377086.04 5377086.19 5377086.34 0.0275 0.0020

Saturn 10010-02-07 05:31 G 5377174.60 5377174.73 5377174.87 0.0275 0.0083

Moon 10010-02-08 23:31 G 5377176.39 5377176.48 5377176.57 0.2666 0.1625

Earth 10010-02-08 23:45 G 5377176.39 5377176.49 5377176.58 0.2659 0.1654 *

Saturn 10010-05-06 18:28 G 5377263.17 5377263.27 5377263.38 0.0275 0.0183

Mars 10011-11-23 14:52 G 5377828.99 5377829.12 5377829.26 0.1611 0.0797

Jupiter 10012-08-09 13:55 G 5378088.92 5378089.08 5378089.25 0.0485 0.0049

Earth 10012-08-11 15:50 G 5378091.04 5378091.16 5378091.28 0.2670 0.1515

Moon 10012-08-11 16:04 G 5378091.05 5378091.17 5378091.28 0.2677 0.1566 *

Venus 10014-09-05 21:21 G 5378846.31 5378846.39 5378846.48 0.3683 0.2265

Mars 10014-09-10 16:48 G 5378851.13 5378851.20 5378851.27 0.1911 0.1530

Venus 10016-03-19 16:19 G 5379407.15 5379407.18 5379407.21 0.3688 0.3557

Jupiter 10018-07-14 20:23 G 5380254.23 5380254.35 5380254.48 0.0543 0.0248

Jupiter 10018-10-12 09:50 G 5380343.84 5380343.91 5380343.99 0.0544 0.0442

Venus 10020-03-21 15:21 G 5380870.03 5380870.14 5380870.25 0.3683 0.0910

Mars 10021-04-14 19:11 G 5381259.24 5381259.30 5381259.36 0.1608 0.1476

Venus 10021-10-03 16:48 G 5381431.08 5381431.20 5381431.32 0.3687 0.1451

Earth 10023-02-11 18:43 G 5381927.16 5381927.28 5381927.39 0.2661 0.0162

Moon 10023-02-11 19:11 G 5381927.18 5381927.30 5381927.41 0.2666 0.0134 *

Mars 10023-03-22 04:04 G 5381965.61 5381965.67 5381965.74 0.1621 0.1454

Saturn 10023-12-01 19:55 G 5382220.21 5382220.33 5382220.45 0.0285 0.0185

Mars 10024-02-01 00:14 G 5382281.40 5382281.51 5382281.62 0.1916 0.0712

Saturn 10024-02-28 13:55 G 5382308.92 5382309.08 5382309.24 0.0284 0.0057

Neptune 10024-05-27 00:00 G 5382397.46 5382397.50 5382397.54 0.0088 0.0085

Saturn 10024-05-27 08:09 G 5382397.68 5382397.84 5382398.00 0.0284 0.0073

Jupiter 10024-05-28 15:21 G 5382398.99 5382399.14 5382399.29 0.0485 0.0189

Neptune 10024-08-23 02:23 G 5382485.53 5382485.60 5382485.68 0.0088 0.0077

Saturn 10024-08-24 02:52 G 5382486.51 5382486.62 5382486.73 0.0284 0.0206

Jupiter 10024-08-26 10:33 G 5382488.86 5382488.94 5382489.03 0.0484 0.0410

Neptune 10024-11-19 04:48 G 5382573.61 5382573.70 5382573.81 0.0088 0.0069

Neptune 10025-02-15 07:26 G 5382661.69 5382661.81 5382661.93 0.0088 0.0061

Neptune 10025-05-14 09:50 G 5382749.78 5382749.91 5382750.05 0.0088 0.0053

Neptune 10025-08-10 12:14 G 5382837.88 5382838.01 5382838.17 0.0088 0.0045

Venus 10025-10-05 09:07 G 5382893.77 5382893.88 5382893.99 0.3684 0.0399

Neptune 10025-11-06 14:52 G 5382925.98 5382926.12 5382926.28 0.0088 0.0037

Neptune 10026-02-02 17:31 G 5383014.08 5383014.23 5383014.40 0.0088 0.0028

Neptune 10026-05-01 20:09 G 5383102.18 5383102.34 5383102.51 0.0088 0.0020

Neptune 10026-07-28 22:48 G 5383190.28 5383190.45 5383190.62 0.0088 0.0012

Neptune 10026-10-25 01:26 G 5383278.39 5383278.56 5383278.73 0.0088 0.0003

Neptune 10027-01-21 04:04 G 5383366.50 5383366.67 5383366.84 0.0088 0.0005

Neptune 10027-04-19 06:28 G 5383454.61 5383454.77 5383454.95 0.0088 0.0014

Venus 10027-04-19 18:00 G 5383455.12 5383455.25 5383455.38 0.3687 0.0790

Neptune 10027-07-16 09:07 G 5383542.72 5383542.88 5383543.05 0.0088 0.0022

Neptune 10027-10-12 11:45 G 5383630.83 5383630.99 5383631.16 0.0088 0.0031

Neptune 10028-01-08 14:23 G 5383718.95 5383719.10 5383719.26 0.0088 0.0039

Neptune 10028-04-05 16:48 G 5383807.07 5383807.20 5383807.36 0.0088 0.0048

Neptune 10028-07-02 19:40 G 5383895.19 5383895.32 5383895.46 0.0088 0.0056

Neptune 10028-09-28 22:19 G 5383983.32 5383983.43 5383983.55 0.0088 0.0065

Neptune 10028-12-26 00:43 G 5384071.46 5384071.53 5384071.64 0.0088 0.0074

Neptune 10029-03-24 03:36 G 5384159.60 5384159.65 5384159.72 0.0088 0.0082

Jupiter 10030-05-02 21:21 G 5384564.31 5384564.39 5384564.47 0.0543 0.0442

Jupiter 10030-07-31 11:31 G 5384653.86 5384653.98 5384654.10 0.0544 0.0257

Venus 10031-04-21 02:38 G 5384917.51 5384917.61 5384917.71 0.3685 0.1671

Mars 10032-08-11 07:40 G 5385395.68 5385395.82 5385395.96 0.1618 0.0715

Venus 10032-11-02 19:40 G 5385479.26 5385479.32 5385479.39 0.3686 0.3172

Mars 10033-06-23 07:11 G 5385711.68 5385711.80 5385711.92 0.1920 0.0150

Earth 10036-02-14 13:26 G 5386677.96 5386678.06 5386678.16 0.2662 0.1371

Moon 10036-02-14 14:09 G 5386678.00 5386678.09 5386678.19 0.2664 0.1461 *

Jupiter 10036-03-16 16:33 G 5386709.08 5386709.19 5386709.32 0.0485 0.0328

Jupiter 10036-06-14 11:31 G 5386798.85 5386798.98 5386799.13 0.0484 0.0264

Venus 10036-11-03 19:55 G 5386941.26 5386941.33 5386941.40 0.3685 0.2893

Saturn 10038-10-04 16:19 G 5387641.13 5387641.18 5387641.23 0.0274 0.0253

Saturn 10039-01-01 06:00 G 5387729.62 5387729.75 5387729.87 0.0274 0.0147

Saturn 10039-03-30 19:26 G 5387818.16 5387818.31 5387818.45 0.0274 0.0043

Saturn 10039-06-27 08:23 G 5387906.71 5387906.85 5387907.00 0.0275 0.0061

Saturn 10039-09-23 21:36 G 5387995.28 5387995.40 5387995.51 0.0275 0.0161

Saturn 10039-12-21 10:04 G 5388083.88 5388083.92 5388083.97 0.0275 0.0261

Uranus 10041-01-10 20:23 G 5388470.25 5388470.35 5388470.44 0.0144 0.0120

Uranus 10041-04-09 02:52 G 5388558.50 5388558.62 5388558.76 0.0144 0.0094

Uranus 10041-07-06 09:50 G 5388646.76 5388646.91 5388647.07 0.0144 0.0067

Uranus 10041-10-02 16:48 G 5388735.03 5388735.20 5388735.37 0.0144 0.0040

Uranus 10041-12-29 23:45 G 5388823.32 5388823.49 5388823.67 0.0144 0.0013

Mars 10042-01-01 11:31 G 5388825.82 5388825.98 5388826.14 0.1614 0.0018

Uranus 10042-03-28 06:43 G 5388911.61 5388911.78 5388911.96 0.0144 0.0015

Jupiter 10042-05-19 13:55 G 5388963.95 5388964.08 5388964.22 0.0544 0.0090

Uranus 10042-06-24 13:55 G 5388999.91 5389000.08 5389000.25 0.0144 0.0042

Uranus 10042-09-20 20:52 G 5389088.22 5389088.37 5389088.53 0.0144 0.0070

Mars 10042-11-13 13:55 G 5389141.98 5389142.08 5389142.18 0.1925 0.1029

Uranus 10042-12-18 03:50 G 5389176.54 5389176.66 5389176.80 0.0144 0.0098

Uranus 10043-03-16 10:48 G 5389264.88 5389264.95 5389265.05 0.0144 0.0126

Moon 10045-08-09 18:14 G 5390142.12 5390142.26 5390142.40 0.2677 0.0474

Earth 10045-08-09 18:57 G 5390142.15 5390142.29 5390142.43 0.2672 0.0448 *

Jupiter 10048-01-03 17:45 G 5391019.21 5391019.24 5391019.28 0.0485 0.0471

Jupiter 10048-04-02 12:14 G 5391108.85 5391109.01 5391109.17 0.0484 0.0112

Mars 10051-05-24 15:36 G 5392256.00 5392256.15 5392256.29 0.1611 0.0707

Saturn 10053-04-19 18:57 G 5392952.20 5392952.29 5392952.39 0.0285 0.0229

Saturn 10053-07-17 12:43 G 5393040.89 5393041.03 5393041.19 0.0285 0.0103

Saturn 10053-10-14 06:57 G 5393129.63 5393129.79 5393129.96 0.0284 0.0027

Saturn 10054-01-11 01:26 G 5393218.43 5393218.56 5393218.70 0.0284 0.0158

Jupiter 10054-03-07 16:48 G 5393274.06 5393274.20 5393274.34 0.0544 0.0072

Mars 10054-03-11 17:02 G 5393278.15 5393278.21 5393278.27 0.1911 0.1617

Moon 10056-02-10 04:33 G 5393978.59 5393978.69 5393978.79 0.2666 0.1396

Earth 10056-02-10 04:33 G 5393978.59 5393978.69 5393978.80 0.2659 0.1328 *

Earth 10058-08-12 21:50 G 5394893.32 5394893.41 5394893.51 0.2670 0.2010

Moon 10058-08-12 22:04 G 5394893.33 5394893.42 5394893.52 0.2677 0.2022 *

Jupiter 10060-01-20 13:11 G 5395418.88 5395419.05 5395419.21 0.0484 0.0034

Mars 10060-10-13 19:55 G 5395686.25 5395686.33 5395686.41 0.1608 0.1383

Mars 10062-09-20 04:48 G 5396392.66 5396392.70 5396392.75 0.1621 0.1556

Mars 10063-08-02 00:14 G 5396708.40 5396708.51 5396708.62 0.1916 0.0791

Venus 10065-09-27 01:26 G 5397495.51 5397495.56 5397495.61 0.3683 0.3220

Jupiter 10065-12-24 19:11 G 5397584.18 5397584.30 5397584.43 0.0543 0.0239

Jupiter 10066-03-24 08:52 G 5397673.79 5397673.87 5397673.94 0.0544 0.0451

Saturn 10068-05-20 06:00 G 5398461.65 5398461.75 5398461.86 0.0274 0.0190

Saturn 10068-08-16 19:26 G 5398550.18 5398550.31 5398550.46 0.0274 0.0085

Saturn 10068-11-13 08:52 G 5398638.72 5398638.87 5398639.01 0.0275 0.0019

Saturn 10069-02-09 21:50 G 5398727.28 5398727.41 5398727.54 0.0275 0.0121

Earth 10069-02-11 23:31 G 5398729.37 5398729.48 5398729.60 0.2661 0.0210

Moon 10069-02-12 00:14 G 5398729.39 5398729.51 5398729.62 0.2665 0.0325 *

Saturn 10069-05-09 10:33 G 5398815.86 5398815.94 5398816.03 0.0275 0.0221

Venus 10071-04-12 19:40 G 5399519.22 5399519.32 5399519.41 0.3683 0.1841

Jupiter 10071-11-08 13:55 G 5399728.93 5399729.08 5399729.23 0.0485 0.0180

Jupiter 10072-02-06 09:21 G 5399818.81 5399818.89 5399818.97 0.0484 0.0418

Mars 10072-02-10 08:09 G 5399822.71 5399822.84 5399822.98 0.1618 0.0808

Venus 10072-10-24 16:04 G 5400080.09 5400080.17 5400080.25 0.3688 0.2930

Mars 10072-12-22 07:11 G 5400138.68 5400138.80 5400138.92 0.1921 0.0067

Venus 10076-10-26 13:26 G 5401542.95 5401543.06 5401543.17 0.3684 0.0505

Jupiter 10077-10-12 21:21 G 5401894.30 5401894.39 5401894.48 0.0543 0.0415

Jupiter 10078-01-10 11:16 G 5401983.85 5401983.97 5401984.08 0.0544 0.0283

Venus 10078-05-10 16:48 G 5402104.07 5402104.20 5402104.33 0.3687 0.0798

Moon 10078-08-07 21:21 G 5402193.33 5402193.39 5402193.44 0.2677 0.2413

Earth 10078-08-07 22:33 G 5402193.37 5402193.44 5402193.51 0.2673 0.2342 *

Mars 10081-07-02 11:45 G 5403252.84 5403252.99 5403253.15 0.1614 0.0091

Earth 10082-02-14 18:28 G 5403480.18 5403480.27 5403480.36 0.2662 0.1685

Moon 10082-02-14 19:11 G 5403480.22 5403480.30 5403480.38 0.2663 0.1794 *

Venus 10082-05-12 07:11 G 5403566.69 5403566.80 5403566.90 0.3684 0.0805

Mars 10082-05-14 14:09 G 5403568.99 5403569.09 5403569.20 0.1925 0.0934

Saturn 10082-09-06 18:57 G 5403684.24 5403684.29 5403684.34 0.0285 0.0270

Saturn 10082-12-04 12:28 G 5403772.89 5403773.02 5403773.16 0.0285 0.0145

Saturn 10083-03-03 06:28 G 5403861.61 5403861.77 5403861.94 0.0284 0.0018

Saturn 10083-05-31 00:57 G 5403950.39 5403950.54 5403950.69 0.0284 0.0115

Jupiter 10083-08-27 15:21 G 5404039.02 5404039.14 5404039.26 0.0485 0.0319

Saturn 10083-08-27 19:40 G 5404039.25 5404039.32 5404039.40 0.0284 0.0248 *

Uranus 10083-10-22 06:14 G 5404094.72 5404094.76 5404094.82 0.0134 0.0124

Venus 10083-11-24 18:14 G 5404128.13 5404128.26 5404128.38 0.3686 0.1496

Jupiter 10083-11-25 10:19 G 5404128.79 5404128.93 5404129.07 0.0484 0.0272

Uranus 10084-01-18 09:50 G 5404182.84 5404182.91 5404183.01 0.0134 0.0106

Uranus 10084-04-15 13:40 G 5404270.97 5404271.07 5404271.18 0.0134 0.0088

Uranus 10084-07-12 17:16 G 5404359.10 5404359.22 5404359.34 0.0134 0.0070

Uranus 10084-10-08 20:52 G 5404447.24 5404447.37 5404447.50 0.0134 0.0053

Uranus 10085-01-05 00:28 G 5404535.38 5404535.52 5404535.66 0.0134 0.0035

Uranus 10085-04-03 04:04 G 5404623.53 5404623.67 5404623.81 0.0134 0.0018

Uranus 10085-06-30 07:26 G 5404711.67 5404711.81 5404711.95 0.0134 0.0003

Uranus 10085-09-26 11:02 G 5404799.82 5404799.96 5404800.10 0.0134 0.0017

Uranus 10085-12-23 14:23 G 5404887.97 5404888.10 5404888.24 0.0134 0.0035

Uranus 10086-03-21 17:45 G 5404976.12 5404976.24 5404976.38 0.0134 0.0053

Uranus 10086-06-17 21:21 G 5405064.27 5405064.39 5405064.51 0.0134 0.0069

Uranus 10086-09-14 00:43 G 5405152.43 5405152.53 5405152.64 0.0135 0.0086

Uranus 10086-12-11 04:04 G 5405240.59 5405240.67 5405240.77 0.0135 0.0104

Uranus 10087-03-09 07:26 G 5405328.76 5405328.81 5405328.88 0.0135 0.0121

Venus 10087-11-26 00:28 G 5405590.43 5405590.52 5405590.61 0.3685 0.2051

Earth 10089-02-07 14:38 G 5406030.08 5406030.11 5406030.14 0.2658 0.2548

Jupiter 10089-10-29 12:28 G 5406293.89 5406294.02 5406294.16 0.0544 0.0095

Mars 10090-11-22 16:04 G 5406683.02 5406683.17 5406683.31 0.1611 0.0618

Moon 10091-08-11 00:28 G 5406944.38 5406944.52 5406944.67 0.2678 0.0135

Earth 10091-08-11 00:57 G 5406944.40 5406944.54 5406944.68 0.2672 0.0035 *

Mars 10091-10-04 20:38 G 5406999.33 5406999.36 5406999.39 0.1929 0.1849

Venus 10093-06-10 17:45 G 5407614.20 5407614.24 5407614.29 0.3686 0.3272

Mars 10093-09-09 17:02 G 5407705.16 5407705.21 5407705.26 0.1911 0.1703

Jupiter 10095-06-15 16:48 G 5408349.15 5408349.20 5408349.25 0.0485 0.0458

Jupiter 10095-09-13 11:16 G 5408438.81 5408438.97 5408439.13 0.0485 0.0127

Saturn 10097-10-07 08:38 G 5409193.78 5409193.86 5409193.96 0.0274 0.0213

Saturn 10098-01-03 22:33 G 5409282.30 5409282.44 5409282.57 0.0274 0.0107

Saturn 10098-04-02 11:45 G 5409370.85 5409370.99 5409371.14 0.0275 0.0006

Saturn 10098-06-30 00:57 G 5409459.40 5409459.54 5409459.67 0.0275 0.0100

Saturn 10098-09-26 13:40 G 5409547.98 5409548.07 5409548.17 0.0275 0.0200

Mars 10100-04-14 20:09 G 5410113.26 5410113.34 5410113.44 0.1608 0.1300

Jupiter 10101-08-18 14:52 G 5410603.98 5410604.12 5410604.26 0.0544 0.0078

Earth 10102-02-11 09:36 G 5410780.79 5410780.90 5410781.01 0.2659 0.1006

Moon 10102-02-11 09:36 G 5410780.80 5410780.90 5410781.01 0.2666 0.0944 *

Mars 10103-02-01 00:14 G 5411135.40 5411135.51 5411135.61 0.1916 0.0869

Earth 10104-08-14 03:50 G 5411695.61 5411695.66 5411695.71 0.2670 0.2499

Moon 10104-08-14 04:19 G 5411695.65 5411695.68 5411695.71 0.2677 0.2612 *

Neptune 10106-12-04 08:09 G 5412537.81 5412537.84 5412537.87 0.0089 0.0087

Neptune 10107-03-02 09:36 G 5412625.85 5412625.90 5412625.99 0.0089 0.0080

Neptune 10107-05-29 11:31 G 5412713.91 5412713.98 5412714.08 0.0089 0.0072

Jupiter 10107-07-03 12:00 G 5412748.83 5412749.00 5412749.16 0.0484 0.0026

Neptune 10107-08-25 13:40 G 5412801.97 5412802.07 5412802.17 0.0089 0.0064

Neptune 10107-11-21 15:21 G 5412890.03 5412890.14 5412890.26 0.0089 0.0056

Neptune 10108-02-17 17:16 G 5412978.10 5412978.22 5412978.35 0.0089 0.0048

Neptune 10108-05-15 19:11 G 5413066.17 5413066.30 5413066.43 0.0089 0.0041

Neptune 10108-08-11 20:52 G 5413154.24 5413154.37 5413154.51 0.0089 0.0033

Neptune 10108-11-07 22:48 G 5413242.31 5413242.45 5413242.59 0.0089 0.0025

Neptune 10109-02-04 00:28 G 5413330.38 5413330.52 5413330.67 0.0089 0.0018

Neptune 10109-05-03 02:23 G 5413418.45 5413418.60 5413418.74 0.0089 0.0010

Neptune 10109-07-30 04:04 G 5413506.53 5413506.67 5413506.82 0.0089 0.0004

Neptune 10109-10-26 06:00 G 5413594.60 5413594.75 5413594.89 0.0089 0.0005

Neptune 10110-01-22 07:40 G 5413682.68 5413682.82 5413682.97 0.0089 0.0012

Neptune 10110-04-20 09:21 G 5413770.75 5413770.89 5413771.04 0.0089 0.0020

Neptune 10110-07-17 11:02 G 5413858.83 5413858.96 5413859.11 0.0089 0.0027

Neptune 10110-10-13 12:57 G 5413946.91 5413947.04 5413947.17 0.0089 0.0034

Neptune 10111-01-09 14:38 G 5414034.98 5414035.11 5414035.24 0.0089 0.0042

Neptune 10111-04-07 16:04 G 5414123.06 5414123.17 5414123.30 0.0089 0.0050

Neptune 10111-07-04 18:00 G 5414211.14 5414211.25 5414211.37 0.0089 0.0057

Mars 10111-08-12 08:52 G 5414249.74 5414249.87 5414250.00 0.1618 0.0902

Neptune 10111-09-30 19:40 G 5414299.23 5414299.32 5414299.43 0.0089 0.0064

Neptune 10111-12-27 21:07 G 5414387.31 5414387.38 5414387.48 0.0089 0.0072

Neptune 10112-03-24 23:02 G 5414475.40 5414475.46 5414475.54 0.0089 0.0078

Saturn 10112-04-23 12:00 G 5414504.89 5414505.00 5414505.13 0.0285 0.0186

Neptune 10112-06-21 00:43 G 5414563.50 5414563.53 5414563.58 0.0089 0.0086

Mars 10112-06-23 07:26 G 5414565.69 5414565.81 5414565.93 0.1921 0.0028

Saturn 10112-07-21 06:00 G 5414593.59 5414593.75 5414593.91 0.0285 0.0059

Saturn 10112-10-18 00:14 G 5414682.35 5414682.51 5414682.67 0.0284 0.0072

Saturn 10113-01-14 18:43 G 5414771.17 5414771.28 5414771.40 0.0284 0.0204

Jupiter 10113-06-06 17:31 G 5414914.10 5414914.23 5414914.35 0.0544 0.0242

Jupiter 10113-09-04 06:57 G 5415003.72 5415003.79 5415003.87 0.0544 0.0450

Earth 10115-02-14 04:33 G 5415531.58 5415531.69 5415531.81 0.2661 0.0514

Moon 10115-02-14 05:16 G 5415531.61 5415531.72 5415531.83 0.2665 0.0550 *

Jupiter 10119-04-21 12:57 G 5417058.89 5417059.04 5417059.19 0.0485 0.0167

Jupiter 10119-07-20 08:09 G 5417148.77 5417148.84 5417148.92 0.0484 0.0431

Mars 10121-01-01 12:28 G 5417679.86 5417680.02 5417680.18 0.1614 0.0177

Mars 10121-11-13 14:09 G 5417995.98 5417996.09 5417996.20 0.1925 0.0862

Venus 10122-05-04 23:31 G 5418168.41 5418168.48 5418168.56 0.3683 0.2790

Moon 10124-08-09 03:21 G 5418995.55 5418995.64 5418995.73 0.2677 0.2100

Earth 10124-08-09 04:33 G 5418995.59 5418995.69 5418995.79 0.2673 0.1867 *

Uranus 10124-11-04 20:52 G 5419083.34 5419083.37 5419083.42 0.0145 0.0140

Uranus 10125-02-01 03:50 G 5419171.55 5419171.66 5419171.77 0.0145 0.0113

Jupiter 10125-03-25 19:55 G 5419224.24 5419224.33 5419224.42 0.0543 0.0410

Uranus 10125-04-30 10:19 G 5419259.80 5419259.93 5419260.08 0.0144 0.0087

Jupiter 10125-06-23 09:50 G 5419313.80 5419313.91 5419314.03 0.0544 0.0290

Uranus 10125-07-27 17:16 G 5419348.07 5419348.22 5419348.39 0.0144 0.0060

Uranus 10125-10-24 00:14 G 5419436.34 5419436.51 5419436.68 0.0144 0.0033

Uranus 10126-01-20 07:11 G 5419524.63 5419524.80 5419524.98 0.0144 0.0006

Uranus 10126-04-18 14:09 G 5419612.92 5419613.09 5419613.27 0.0144 0.0022

Uranus 10126-07-15 21:07 G 5419701.22 5419701.38 5419701.55 0.0144 0.0050

Uranus 10126-10-12 04:19 G 5419789.53 5419789.68 5419789.83 0.0144 0.0077

Uranus 10127-01-08 11:16 G 5419877.86 5419877.97 5419878.10 0.0144 0.0105

Saturn 10127-02-25 08:52 G 5419925.82 5419925.87 5419925.93 0.0274 0.0254

Uranus 10127-04-06 18:28 G 5419966.21 5419966.27 5419966.34 0.0144 0.0133

Saturn 10127-05-24 22:33 G 5420014.32 5420014.44 5420014.57 0.0274 0.0149

Saturn 10127-08-21 12:00 G 5420102.86 5420103.00 5420103.15 0.0274 0.0045

Saturn 10127-11-18 01:26 G 5420191.41 5420191.56 5420191.70 0.0275 0.0060

Venus 10127-11-18 17:31 G 5420192.13 5420192.23 5420192.34 0.3683 0.1433

Saturn 10128-02-14 14:09 G 5420279.98 5420280.09 5420280.21 0.0275 0.0161

Earth 10128-02-16 23:31 G 5420282.40 5420282.48 5420282.55 0.2662 0.2002

Moon 10128-02-17 00:14 G 5420282.44 5420282.51 5420282.58 0.2661 0.2129 *

Saturn 10128-05-13 02:52 G 5420368.59 5420368.62 5420368.67 0.0275 0.0261

Venus 10129-06-01 15:50 G 5420753.06 5420753.16 5420753.26 0.3687 0.2305

Mars 10130-05-24 16:19 G 5421110.04 5421110.18 5421110.33 0.1611 0.0532

Jupiter 10131-02-07 13:55 G 5421368.95 5421369.08 5421369.20 0.0485 0.0313

Mars 10131-04-05 20:38 G 5421426.32 5421426.36 5421426.41 0.1929 0.1761

Jupiter 10131-05-08 08:38 G 5421458.73 5421458.86 5421459.00 0.0484 0.0279

Mars 10133-03-11 17:02 G 5422132.17 5422132.21 5422132.25 0.1911 0.1773

Venus 10133-06-03 11:31 G 5422215.87 5422215.98 5422216.09 0.3684 0.0115

Pluto 10134-03-11 19:11 G 5422497.26 5422497.30 5422497.34 0.0071 0.0067

Pluto 10134-06-07 19:55 G 5422585.25 5422585.33 5422585.41 0.0071 0.0058

Pluto 10134-09-03 20:38 G 5422673.26 5422673.36 5422673.46 0.0071 0.0049

Pluto 10134-11-30 21:21 G 5422761.28 5422761.39 5422761.50 0.0071 0.0040

Venus 10134-12-16 16:48 G 5422777.06 5422777.20 5422777.33 0.3687 0.0119

Moon 10135-02-09 19:11 G 5422832.24 5422832.30 5422832.36 0.2665 0.2233

Earth 10135-02-09 19:40 G 5422832.25 5422832.32 5422832.38 0.2658 0.2225 *

Pluto 10135-02-26 22:04 G 5422849.30 5422849.42 5422849.54 0.0071 0.0031

Pluto 10135-05-25 22:48 G 5422937.32 5422937.45 5422937.58 0.0071 0.0022

Pluto 10135-08-21 23:31 G 5423025.35 5423025.48 5423025.62 0.0072 0.0013

Pluto 10135-11-18 00:14 G 5423113.38 5423113.51 5423113.65 0.0072 0.0005

Pluto 10136-02-14 01:11 G 5423201.41 5423201.55 5423201.68 0.0072 0.0006

Pluto 10136-05-12 01:55 G 5423289.45 5423289.58 5423289.71 0.0072 0.0015

Pluto 10136-08-08 02:38 G 5423377.48 5423377.61 5423377.74 0.0072 0.0025

Pluto 10136-11-04 03:21 G 5423465.52 5423465.64 5423465.76 0.0072 0.0034

Pluto 10137-01-31 04:19 G 5423553.57 5423553.68 5423553.79 0.0072 0.0044

Jupiter 10137-04-11 12:14 G 5423623.88 5423624.01 5423624.14 0.0544 0.0119

Pluto 10137-04-29 04:48 G 5423641.62 5423641.70 5423641.80 0.0072 0.0054

Pluto 10137-07-26 05:31 G 5423729.68 5423729.73 5423729.81 0.0072 0.0064

Moon 10137-08-12 06:43 G 5423746.65 5423746.78 5423746.92 0.2679 0.0599

Earth 10137-08-12 06:57 G 5423746.65 5423746.79 5423746.94 0.2671 0.0529 *

Venus 10138-12-18 05:02 G 5424239.61 5424239.71 5424239.82 0.3684 0.1190

Mars 10139-10-14 20:38 G 5424540.26 5424540.36 5424540.46 0.1608 0.1216

Venus 10140-07-01 18:14 G 5424801.15 5424801.26 5424801.37 0.3686 0.2192

Saturn 10141-09-10 11:45 G 5425236.90 5425236.99 5425237.09 0.0285 0.0228

Saturn 10141-12-08 05:31 G 5425325.58 5425325.73 5425325.88 0.0284 0.0102

Saturn 10142-03-06 23:45 G 5425414.32 5425414.49 5425414.65 0.0284 0.0027

Saturn 10142-06-03 18:14 G 5425503.12 5425503.26 5425503.40 0.0284 0.0159

Mars 10142-08-02 00:28 G 5425562.41 5425562.52 5425562.62 0.1916 0.0961

Jupiter 10142-11-26 15:21 G 5425679.08 5425679.14 5425679.20 0.0485 0.0451

Jupiter 10143-02-24 09:50 G 5425768.75 5425768.91 5425769.07 0.0485 0.0134

Venus 10144-07-02 22:33 G 5426263.36 5426263.44 5426263.52 0.3685 0.2432

Earth 10148-02-12 14:38 G 5427583.00 5427583.11 5427583.22 0.2660 0.0681

Moon 10148-02-12 14:52 G 5427583.01 5427583.12 5427583.23 0.2666 0.0706 *

Jupiter 10149-01-28 13:26 G 5427933.92 5427934.06 5427934.20 0.0543 0.0073

Venus 10150-01-16 15:50 G 5428287.14 5428287.16 5428287.17 0.3686 0.3640

Mars 10151-02-10 09:07 G 5428676.76 5428676.88 5428677.01 0.1618 0.0993

Mars 10151-12-23 07:26 G 5428992.69 5428992.81 5428992.93 0.1920 0.0112

Jupiter 10154-12-13 10:48 G 5430078.79 5430078.95 5430079.12 0.0485 0.0014

Saturn 10156-10-11 01:40 G 5430746.45 5430746.57 5430746.68 0.0274 0.0169

Saturn 10157-01-07 15:07 G 5430834.99 5430835.13 5430835.28 0.0275 0.0064

Saturn 10157-04-06 04:33 G 5430923.54 5430923.69 5430923.83 0.0275 0.0040

Saturn 10157-07-03 17:31 G 5431012.11 5431012.23 5431012.35 0.0275 0.0141

Saturn 10157-09-30 06:14 G 5431100.70 5431100.76 5431100.83 0.0275 0.0241

Mars 10160-07-02 12:57 G 5432106.89 5432107.04 5432107.20 0.1614 0.0271

Jupiter 10160-11-16 15:36 G 5432244.02 5432244.15 5432244.27 0.0543 0.0248

Jupiter 10161-02-14 05:02 G 5432333.64 5432333.71 5432333.79 0.0544 0.0443

Earth 10161-02-14 09:36 G 5432333.79 5432333.90 5432334.01 0.2661 0.0829 *

Moon 10161-02-14 10:19 G 5432333.82 5432333.93 5432334.03 0.2665 0.0987 *

Mars 10161-05-14 14:23 G 5432422.99 5432423.10 5432423.21 0.1925 0.0771

Jupiter 10166-10-01 11:31 G 5434388.83 5434388.98 5434389.14 0.0485 0.0159

Jupiter 10166-12-30 06:57 G 5434478.72 5434478.79 5434478.86 0.0484 0.0439

Uranus 10167-11-12 13:26 G 5434796.01 5434796.06 5434796.14 0.0134 0.0119

Uranus 10168-02-08 17:16 G 5434884.13 5434884.22 5434884.32 0.0134 0.0101

Uranus 10168-05-06 20:52 G 5434972.26 5434972.37 5434972.49 0.0134 0.0083

Uranus 10168-08-03 00:28 G 5435060.40 5435060.52 5435060.65 0.0134 0.0066

Uranus 10168-10-30 04:04 G 5435148.54 5435148.67 5435148.81 0.0134 0.0048

Uranus 10169-01-26 07:40 G 5435236.68 5435236.82 5435236.96 0.0134 0.0030

Uranus 10169-04-24 11:16 G 5435324.83 5435324.97 5435325.11 0.0134 0.0013

Uranus 10169-07-21 14:52 G 5435412.98 5435413.12 5435413.26 0.0134 0.0006

Uranus 10169-10-17 18:14 G 5435501.12 5435501.26 5435501.40 0.0134 0.0022

Mars 10169-11-22 17:02 G 5435537.05 5435537.21 5435537.36 0.1611 0.0442

Uranus 10170-01-13 21:50 G 5435589.27 5435589.41 5435589.54 0.0134 0.0040

Uranus 10170-04-12 01:11 G 5435677.43 5435677.55 5435677.68 0.0134 0.0057

Uranus 10170-07-09 04:33 G 5435765.58 5435765.69 5435765.81 0.0134 0.0074

Moon 10170-08-10 09:36 G 5435797.78 5435797.90 5435798.02 0.2677 0.1463

Earth 10170-08-10 10:33 G 5435797.82 5435797.94 5435798.06 0.2673 0.1397 *

Mars 10170-10-04 20:52 G 5435853.31 5435853.37 5435853.43 0.1929 0.1676

Uranus 10170-10-05 07:55 G 5435853.74 5435853.83 5435853.94 0.0135 0.0092

Uranus 10171-01-01 11:16 G 5435941.90 5435941.97 5435942.06 0.0135 0.0109

Saturn 10171-01-28 12:00 G 5435968.95 5435969.00 5435969.07 0.0285 0.0264

Uranus 10171-03-30 14:38 G 5436030.08 5436030.11 5436030.17 0.0135 0.0126

Saturn 10171-04-27 05:45 G 5436057.60 5436057.74 5436057.88 0.0285 0.0139

Saturn 10171-07-24 23:45 G 5436146.33 5436146.49 5436146.65 0.0284 0.0011

Saturn 10171-10-21 18:00 G 5436235.10 5436235.25 5436235.40 0.0284 0.0119

Saturn 10172-01-18 12:43 G 5436323.96 5436324.03 5436324.11 0.0284 0.0252

Jupiter 10172-09-04 18:00 G 5436554.16 5436554.25 5436554.34 0.0543 0.0416

Mars 10172-09-09 17:02 G 5436559.19 5436559.21 5436559.24 0.1911 0.1863

Jupiter 10172-12-03 07:55 G 5436643.72 5436643.83 5436643.95 0.0544 0.0285

Earth 10174-02-17 04:19 G 5437084.63 5437084.68 5437084.74 0.2662 0.2312

Moon 10174-02-17 05:02 G 5437084.66 5437084.71 5437084.76 0.2660 0.2363 *

Jupiter 10178-07-20 12:43 G 5438698.91 5438699.03 5438699.16 0.0485 0.0302

Jupiter 10178-10-18 07:40 G 5438788.68 5438788.82 5438788.95 0.0484 0.0290

Venus 10178-12-09 21:50 G 5438841.32 5438841.41 5438841.49 0.3683 0.2367

Mars 10179-04-14 21:07 G 5438967.27 5438967.38 5438967.49 0.1608 0.1127

Moon 10181-02-10 00:14 G 5439634.44 5439634.51 5439634.59 0.2664 0.1992

Earth 10181-02-10 00:43 G 5439634.44 5439634.53 5439634.61 0.2658 0.1899 *

Mars 10182-01-31 00:28 G 5439989.42 5439989.52 5439989.62 0.1916 0.1036

Moon 10183-08-13 12:57 G 5440548.91 5440549.04 5440549.17 0.2678 0.0909

Earth 10183-08-13 13:11 G 5440548.91 5440549.05 5440549.18 0.2671 0.1018 *

Venus 10184-06-24 15:36 G 5440865.05 5440865.15 5440865.26 0.3684 0.1020

Jupiter 10184-09-21 10:48 G 5440953.82 5440953.95 5440954.08 0.0544 0.0122

Venus 10186-01-06 15:50 G 5441426.04 5441426.16 5441426.28 0.3687 0.1657

Saturn 10186-02-28 01:55 G 5441478.49 5441478.58 5441478.67 0.0274 0.0210

Saturn 10186-05-27 15:36 G 5441567.01 5441567.15 5441567.28 0.0274 0.0105

Saturn 10186-08-24 04:48 G 5441655.56 5441655.70 5441655.85 0.0275 0.0009

Saturn 10186-11-20 18:00 G 5441744.12 5441744.25 5441744.39 0.0275 0.0102

Saturn 10187-02-17 06:57 G 5441832.69 5441832.79 5441832.89 0.0275 0.0202

Neptune 10189-02-21 22:48 G 5442568.40 5442568.45 5442568.51 0.0088 0.0082

Neptune 10189-05-21 01:11 G 5442656.47 5442656.55 5442656.64 0.0088 0.0074

Neptune 10189-08-17 03:36 G 5442744.55 5442744.65 5442744.77 0.0088 0.0066

Neptune 10189-11-13 06:14 G 5442832.64 5442832.76 5442832.89 0.0088 0.0058

Venus 10190-01-08 09:36 G 5442888.79 5442888.90 5442889.01 0.3684 0.0328

Neptune 10190-02-09 08:38 G 5442920.73 5442920.86 5442921.01 0.0088 0.0050

Neptune 10190-05-08 11:02 G 5443008.83 5443008.96 5443009.12 0.0088 0.0042

Jupiter 10190-05-08 13:40 G 5443009.01 5443009.07 5443009.14 0.0485 0.0446 *

Neptune 10190-08-04 13:40 G 5443096.92 5443097.07 5443097.24 0.0088 0.0034

Jupiter 10190-08-06 08:09 G 5443098.68 5443098.84 5443099.00 0.0485 0.0139

Mars 10190-08-11 09:50 G 5443103.79 5443103.91 5443104.03 0.1618 0.1089

Neptune 10190-10-31 16:19 G 5443185.02 5443185.18 5443185.35 0.0088 0.0025

Neptune 10191-01-27 18:57 G 5443273.12 5443273.29 5443273.46 0.0088 0.0017

Neptune 10191-04-25 21:36 G 5443361.23 5443361.40 5443361.57 0.0088 0.0009

Mars 10191-06-23 07:26 G 5443419.70 5443419.81 5443419.93 0.1921 0.0201

Neptune 10191-07-23 00:14 G 5443449.34 5443449.51 5443449.68 0.0088 0.0002

Venus 10191-07-23 16:48 G 5443450.07 5443450.20 5443450.34 0.3686 0.0570

Neptune 10191-10-19 02:38 G 5443537.44 5443537.61 5443537.79 0.0088 0.0008

Neptune 10192-01-15 05:16 G 5443625.55 5443625.72 5443625.89 0.0088 0.0017

Neptune 10192-04-12 07:55 G 5443713.67 5443713.83 5443714.00 0.0088 0.0025

Neptune 10192-07-09 10:19 G 5443801.78 5443801.93 5443802.10 0.0088 0.0034

Neptune 10192-10-05 12:57 G 5443889.90 5443890.04 5443890.20 0.0088 0.0042

Neptune 10193-01-01 15:36 G 5443978.02 5443978.15 5443978.30 0.0088 0.0051

Neptune 10193-03-30 18:28 G 5444066.15 5444066.27 5444066.40 0.0088 0.0059

Neptune 10193-06-26 20:52 G 5444154.27 5444154.37 5444154.49 0.0088 0.0068

Neptune 10193-09-22 23:45 G 5444242.41 5444242.49 5444242.58 0.0088 0.0076

Neptune 10193-12-20 02:23 G 5444330.57 5444330.60 5444330.65 0.0088 0.0085

Earth 10194-02-12 19:40 G 5444385.20 5444385.32 5444385.43 0.2660 0.0365

Moon 10194-02-12 20:09 G 5444385.22 5444385.34 5444385.45 0.2666 0.0270 *

Venus 10195-07-25 03:07 G 5444912.53 5444912.63 5444912.73 0.3685 0.1581

Jupiter 10196-07-10 12:57 G 5445263.90 5445264.04 5445264.18 0.0543 0.0051

Venus 10197-02-05 18:28 G 5445474.19 5445474.27 5445474.35 0.3686 0.2916

Mars 10200-01-01 13:26 G 5446533.90 5446534.06 5446534.21 0.1614 0.0354

Saturn 10200-09-14 05:16 G 5446789.60 5446789.72 5446789.85 0.0285 0.0182

Mars 10200-11-13 14:23 G 5446849.99 5446850.10 5446850.22 0.1925 0.0682

Saturn 10200-12-11 23:16 G 5446878.31 5446878.47 5446878.63 0.0284 0.0055

Venus 10201-02-07 20:23 G 5446936.28 5446936.35 5446936.42 0.3685 0.2812

Saturn 10201-03-10 17:31 G 5446967.07 5446967.23 5446967.39 0.0284 0.0075

Saturn 10201-06-07 12:00 G 5447055.89 5447056.00 5447056.12 0.0284 0.0207

Jupiter 10202-05-26 09:21 G 5447408.72 5447408.89 5447409.05 0.0485 0.0010

Earth 10207-02-16 14:38 G 5449136.00 5449136.11 5449136.21 0.2661 0.1147

Moon 10207-02-16 15:21 G 5449136.04 5449136.14 5449136.24 0.2664 0.1182 *

Jupiter 10208-04-29 14:09 G 5449573.96 5449574.09 5449574.21 0.0543 0.0244

Jupiter 10208-07-28 03:36 G 5449663.58 5449663.65 5449663.73 0.0544 0.0447

Uranus 10208-11-26 04:04 G 5449784.62 5449784.67 5449784.76 0.0145 0.0133

Uranus 10209-02-22 11:02 G 5449872.85 5449872.96 5449873.09 0.0145 0.0106

Uranus 10209-05-21 17:45 G 5449961.11 5449961.24 5449961.40 0.0144 0.0080

Mars 10209-05-24 17:31 G 5449964.07 5449964.23 5449964.38 0.1611 0.0352

Uranus 10209-08-18 00:43 G 5450049.37 5450049.53 5450049.70 0.0144 0.0052

Uranus 10209-11-14 07:40 G 5450137.65 5450137.82 5450138.00 0.0144 0.0025

Uranus 10210-02-10 14:38 G 5450225.94 5450226.11 5450226.29 0.0144 0.0003

Mars 10210-04-05 20:52 G 5450280.31 5450280.37 5450280.44 0.1929 0.1590

Uranus 10210-05-09 21:36 G 5450314.23 5450314.40 5450314.58 0.0144 0.0030

Uranus 10210-08-06 04:33 G 5450402.53 5450402.69 5450402.86 0.0144 0.0057

Uranus 10210-11-02 11:31 G 5450490.85 5450490.98 5450491.14 0.0144 0.0085

Uranus 10211-01-29 18:43 G 5450579.18 5450579.28 5450579.40 0.0144 0.0113

Uranus 10211-04-28 01:40 G 5450667.56 5450667.57 5450667.63 0.0144 0.0141

Jupiter 10214-03-14 10:19 G 5451718.78 5451718.93 5451719.09 0.0485 0.0149

Jupiter 10214-06-12 05:45 G 5451808.68 5451808.74 5451808.80 0.0484 0.0450

Saturn 10215-07-19 04:48 G 5452210.62 5452210.70 5452210.78 0.0275 0.0231

Saturn 10215-10-15 18:28 G 5452299.14 5452299.27 5452299.40 0.0275 0.0126

Saturn 10216-01-12 07:55 G 5452387.69 5452387.83 5452387.98 0.0275 0.0022

Saturn 10216-04-09 21:07 G 5452476.25 5452476.38 5452476.52 0.0275 0.0082

Saturn 10216-07-07 10:04 G 5452564.82 5452564.92 5452565.03 0.0275 0.0183

Moon 10216-08-11 15:50 G 5452600.03 5452600.16 5452600.29 0.2678 0.1049

Earth 10216-08-11 16:19 G 5452600.05 5452600.18 5452600.32 0.2673 0.0929 *

Mars 10218-10-14 21:50 G 5453394.29 5453394.41 5453394.52 0.1608 0.1039

Pluto 10219-11-02 08:52 G 5453777.82 5453777.87 5453777.97 0.0073 0.0067

Pluto 10220-01-29 11:16 G 5453865.86 5453865.97 5453866.12 0.0073 0.0053

Jupiter 10220-02-16 15:50 G 5453884.08 5453884.16 5453884.25 0.0543 0.0423

Earth 10220-02-19 09:21 G 5453886.87 5453886.89 5453886.91 0.2663 0.2621

Pluto 10220-04-26 13:55 G 5453953.92 5453954.08 5453954.24 0.0073 0.0039

Jupiter 10220-05-16 06:00 G 5453973.63 5453973.75 5453973.87 0.0544 0.0277

Pluto 10220-07-23 15:50 G 5454042.00 5454042.16 5454042.35 0.0073 0.0026

Pluto 10220-10-19 18:00 G 5454130.08 5454130.25 5454130.45 0.0073 0.0013

Pluto 10221-01-15 20:23 G 5454218.16 5454218.35 5454218.54 0.0072 0.0001

Pluto 10221-04-13 22:33 G 5454306.26 5454306.44 5454306.62 0.0072 0.0014

Pluto 10221-07-11 00:43 G 5454394.36 5454394.53 5454394.70 0.0072 0.0028

Mars 10221-08-02 00:28 G 5454416.43 5454416.52 5454416.62 0.1916 0.1121

Pluto 10221-10-07 02:52 G 5454482.46 5454482.62 5454482.77 0.0072 0.0041

Pluto 10222-01-03 04:48 G 5454570.58 5454570.70 5454570.83 0.0072 0.0053

Pluto 10222-04-01 06:43 G 5454658.72 5454658.78 5454658.86 0.0072 0.0066

Jupiter 10225-12-31 11:16 G 5456028.84 5456028.97 5456029.10 0.0485 0.0296

Jupiter 10226-03-31 06:00 G 5456118.62 5456118.75 5456118.88 0.0484 0.0295

Moon 10227-02-12 05:31 G 5456436.64 5456436.73 5456436.82 0.2665 0.1579

Earth 10227-02-12 05:31 G 5456436.64 5456436.73 5456436.83 0.2659 0.1574 *

Moon 10229-08-14 19:11 G 5457351.18 5457351.30 5457351.41 0.2678 0.1584

Earth 10229-08-14 19:11 G 5457351.18 5457351.30 5457351.42 0.2671 0.1503 *

Venus 10230-01-01 01:40 G 5457490.53 5457490.57 5457490.62 0.3683 0.3324

Saturn 10230-02-01 06:14 G 5457521.66 5457521.76 5457521.87 0.0285 0.0214

Mars 10230-02-10 10:19 G 5457530.82 5457530.93 5457531.04 0.1618 0.1182

Saturn 10230-05-01 00:14 G 5457610.35 5457610.51 5457610.66 0.0284 0.0088

Saturn 10230-07-28 18:14 G 5457699.10 5457699.26 5457699.42 0.0284 0.0041

Saturn 10230-10-25 12:43 G 5457787.90 5457788.03 5457788.16 0.0284 0.0172

Mars 10230-12-23 07:40 G 5457846.70 5457846.82 5457846.94 0.1920 0.0276

Jupiter 10232-03-04 08:38 G 5458283.73 5458283.86 5458284.00 0.0544 0.0114

Venus 10235-07-17 19:55 G 5459514.23 5459514.33 5459514.42 0.3683 0.1938

Venus 10237-01-28 15:07 G 5460075.06 5460075.13 5460075.20 0.3687 0.3117

Jupiter 10237-10-19 12:28 G 5460338.95 5460339.02 5460339.09 0.0485 0.0437

Jupiter 10238-01-17 06:43 G 5460428.63 5460428.78 5460428.94 0.0484 0.0148

Mars 10239-07-03 13:55 G 5460960.93 5460961.08 5460961.24 0.1614 0.0454

Earth 10240-02-15 00:43 G 5461187.41 5461187.53 5461187.64 0.2660 0.0057

Moon 10240-02-15 01:11 G 5461187.43 5461187.55 5461187.66 0.2666 0.0072 *

Mars 10240-05-14 14:23 G 5461276.99 5461277.10 5461277.22 0.1925 0.0605

Venus 10241-01-30 13:55 G 5461537.97 5461538.08 5461538.19 0.3684 0.0607

Venus 10242-08-14 15:50 G 5462099.03 5462099.16 5462099.29 0.3687 0.0988

Jupiter 10243-12-22 11:16 G 5462593.83 5462593.97 5462594.11 0.0544 0.0051

Saturn 10244-12-05 05:16 G 5462942.70 5462942.72 5462942.74 0.0274 0.0271

Saturn 10245-03-03 19:11 G 5463031.18 5463031.30 5463031.41 0.0274 0.0165

Saturn 10245-05-31 08:38 G 5463119.72 5463119.86 5463120.00 0.0274 0.0060

Saturn 10245-08-27 21:50 G 5463208.27 5463208.41 5463208.56 0.0275 0.0045

Saturn 10245-11-24 11:02 G 5463296.84 5463296.96 5463297.08 0.0275 0.0145

Saturn 10246-02-20 23:45 G 5463385.43 5463385.49 5463385.56 0.0275 0.0245

Venus 10246-08-16 07:40 G 5463561.71 5463561.82 5463561.92 0.3684 0.0726

Venus 10248-02-28 17:02 G 5464123.08 5464123.21 5464123.34 0.3686 0.1263

Mars 10248-11-22 17:45 G 5464391.09 5464391.24 5464391.40 0.1611 0.0267

Mars 10249-10-04 21:07 G 5464707.30 5464707.38 5464707.45 0.1929 0.1504

Jupiter 10249-11-05 07:26 G 5464738.65 5464738.81 5464738.98 0.0485 0.0003

Uranus 10251-09-06 17:02 G 5465409.20 5465409.21 5465409.23 0.0134 0.0132

Uranus 10251-12-03 20:38 G 5465497.30 5465497.36 5465497.44 0.0134 0.0114

Uranus 10252-03-01 00:14 G 5465585.42 5465585.51 5465585.62 0.0134 0.0097

Venus 10252-03-01 00:57 G 5465585.45 5465585.54 5465585.64 0.3685 0.1971 *

Uranus 10252-05-28 03:50 G 5465673.56 5465673.66 5465673.79 0.0134 0.0079

Uranus 10252-08-24 07:40 G 5465761.70 5465761.82 5465761.95 0.0134 0.0061

Uranus 10252-11-20 11:16 G 5465849.84 5465849.97 5465850.10 0.0134 0.0043

Uranus 10253-02-16 14:52 G 5465937.98 5465938.12 5465938.26 0.0134 0.0026

Earth 10253-02-16 19:40 G 5465938.22 5465938.32 5465938.41 0.2661 0.1461 *

Moon 10253-02-16 20:23 G 5465938.26 5465938.35 5465938.44 0.2662 0.1627 *

Uranus 10253-05-15 18:28 G 5466026.12 5466026.27 5466026.41 0.0134 0.0009

Uranus 10253-08-11 21:50 G 5466114.27 5466114.41 5466114.55 0.0134 0.0009

Venus 10253-09-13 18:57 G 5466147.27 5466147.29 5466147.30 0.3685 0.3655

Uranus 10253-11-08 01:26 G 5466202.42 5466202.56 5466202.70 0.0134 0.0026

Uranus 10254-02-04 04:48 G 5466290.57 5466290.70 5466290.84 0.0134 0.0044

Uranus 10254-05-03 08:09 G 5466378.72 5466378.84 5466378.97 0.0134 0.0062

Uranus 10254-07-30 11:45 G 5466466.88 5466466.99 5466467.10 0.0134 0.0078

Uranus 10254-10-26 15:07 G 5466555.04 5466555.13 5466555.23 0.0134 0.0096

Uranus 10255-01-22 18:28 G 5466643.21 5466643.27 5466643.35 0.0135 0.0113

Uranus 10255-04-20 21:50 G 5466731.39 5466731.41 5466731.46 0.0135 0.0130

Jupiter 10255-10-10 13:26 G 5466903.93 5466904.06 5466904.19 0.0543 0.0224

Jupiter 10256-01-08 03:07 G 5466993.56 5466993.63 5466993.70 0.0544 0.0466

Venus 10257-09-14 18:28 G 5467609.21 5467609.27 5467609.32 0.3685 0.3191

Mars 10258-04-14 22:04 G 5467821.30 5467821.42 5467821.55 0.1608 0.0955

Saturn 10259-06-21 05:45 G 5468253.68 5468253.74 5468253.81 0.0285 0.0257

Saturn 10259-09-17 23:31 G 5468342.33 5468342.48 5468342.62 0.0284 0.0132

Saturn 10259-12-15 17:31 G 5468431.06 5468431.23 5468431.39 0.0284 0.0008

Saturn 10260-03-13 11:45 G 5468519.84 5468519.99 5468520.14 0.0284 0.0126

Saturn 10260-06-10 06:28 G 5468608.71 5468608.77 5468608.84 0.0284 0.0259

Mars 10261-01-31 00:43 G 5468843.43 5468843.53 5468843.62 0.1916 0.1209

Jupiter 10261-08-24 08:38 G 5469048.70 5469048.86 5469049.02 0.0485 0.0146

Jupiter 10261-11-22 03:50 G 5469138.61 5469138.66 5469138.72 0.0484 0.0454

Moon 10262-08-12 21:50 G 5469402.27 5469402.41 5469402.55 0.2679 0.0528

Earth 10262-08-12 22:33 G 5469402.29 5469402.44 5469402.58 0.2672 0.0455 *

Jupiter 10267-07-29 14:23 G 5471214.01 5471214.10 5471214.19 0.0542 0.0419

Jupiter 10267-10-27 04:33 G 5471303.57 5471303.69 5471303.80 0.0543 0.0280

Mars 10269-08-11 10:48 G 5471957.86 5471957.95 5471958.05 0.1618 0.1276

Mars 10270-06-23 07:55 G 5472273.71 5472273.83 5472273.94 0.1920 0.0370

Neptune 10271-09-01 07:11 G 5472708.77 5472708.80 5472708.86 0.0089 0.0084

Neptune 10271-11-28 09:07 G 5472796.82 5472796.88 5472796.97 0.0089 0.0076

Neptune 10272-02-24 11:02 G 5472884.87 5472884.96 5472885.06 0.0089 0.0069

Neptune 10272-05-22 12:43 G 5472972.94 5472973.03 5472973.15 0.0089 0.0061

Neptune 10272-08-18 14:38 G 5473061.00 5473061.11 5473061.24 0.0089 0.0054

Neptune 10272-11-14 16:33 G 5473149.07 5473149.19 5473149.32 0.0089 0.0046

Neptune 10273-02-10 18:14 G 5473237.14 5473237.26 5473237.41 0.0089 0.0039

Moon 10273-02-12 10:48 G 5473238.84 5473238.95 5473239.05 0.2665 0.1240

Earth 10273-02-12 10:33 G 5473238.84 5473238.94 5473239.05 0.2659 0.1247 *

Neptune 10273-05-09 20:09 G 5473325.21 5473325.34 5473325.49 0.0089 0.0031

Jupiter 10273-06-12 09:50 G 5473358.78 5473358.91 5473359.04 0.0485 0.0289

Neptune 10273-08-05 22:04 G 5473413.28 5473413.42 5473413.57 0.0089 0.0023

Jupiter 10273-09-10 04:33 G 5473448.56 5473448.69 5473448.82 0.0485 0.0304

Neptune 10273-11-02 00:00 G 5473501.36 5473501.50 5473501.64 0.0089 0.0015

Neptune 10274-01-29 01:40 G 5473589.43 5473589.57 5473589.72 0.0089 0.0008

Neptune 10274-04-27 03:36 G 5473677.50 5473677.65 5473677.80 0.0089 0.0001

Saturn 10274-07-21 22:04 G 5473763.31 5473763.42 5473763.53 0.0275 0.0185

Neptune 10274-07-24 05:16 G 5473765.58 5473765.72 5473765.87 0.0089 0.0008

Saturn 10274-10-18 11:45 G 5473851.85 5473851.99 5473852.13 0.0275 0.0079

Neptune 10274-10-20 06:57 G 5473853.65 5473853.79 5473853.94 0.0089 0.0015

Saturn 10275-01-15 01:11 G 5473940.40 5473940.55 5473940.69 0.0275 0.0025

Neptune 10275-01-16 08:52 G 5473941.73 5473941.87 5473942.01 0.0089 0.0022

Saturn 10275-04-13 14:09 G 5474028.97 5474029.09 5474029.22 0.0275 0.0127

Neptune 10275-04-14 10:33 G 5474029.81 5474029.94 5474030.08 0.0089 0.0030

Saturn 10275-07-11 03:07 G 5474117.55 5474117.63 5474117.71 0.0276 0.0227

Neptune 10275-07-11 12:14 G 5474117.88 5474118.01 5474118.15 0.0089 0.0037

Earth 10275-08-16 01:11 G 5474153.45 5474153.55 5474153.64 0.2671 0.1989

Moon 10275-08-16 01:26 G 5474153.47 5474153.56 5474153.66 0.2677 0.1985 *

Neptune 10275-10-07 13:55 G 5474205.96 5474206.08 5474206.21 0.0089 0.0045

Neptune 10276-01-03 15:50 G 5474294.04 5474294.16 5474294.28 0.0089 0.0052

Neptune 10276-03-31 17:16 G 5474382.13 5474382.22 5474382.34 0.0089 0.0060

Neptune 10276-06-27 19:11 G 5474470.21 5474470.30 5474470.40 0.0089 0.0066

Neptune 10276-09-23 20:52 G 5474558.30 5474558.37 5474558.45 0.0089 0.0074

Neptune 10276-12-20 22:19 G 5474646.39 5474646.43 5474646.50 0.0089 0.0081

Neptune 10277-03-19 00:00 G 5474734.50 5474734.50 5474734.54 0.0089 0.0089

Mars 10279-01-01 14:23 G 5475387.95 5475388.10 5475388.25 0.1615 0.0543

Jupiter 10279-08-15 06:43 G 5475613.64 5475613.78 5475613.91 0.0543 0.0107

Mars 10279-11-13 14:38 G 5475703.99 5475704.11 5475704.22 0.1925 0.0520

Jupiter 10285-03-31 10:48 G 5477668.88 5477668.95 5477669.02 0.0485 0.0434

Jupiter 10285-06-29 05:02 G 5477758.55 5477758.71 5477758.87 0.0485 0.0150

Earth 10286-02-15 05:45 G 5477989.62 5477989.74 5477989.85 0.2660 0.0286

Moon 10286-02-15 06:14 G 5477989.64 5477989.76 5477989.87 0.2666 0.0387 *

Venus 10286-08-08 00:00 G 5478163.43 5478163.50 5478163.57 0.3683 0.2888

Mars 10288-05-23 18:28 G 5478818.11 5478818.27 5478818.43 0.1611 0.0170

Saturn 10288-11-07 07:40 G 5478985.81 5478985.82 5478985.84 0.0285 0.0283

Saturn 10289-02-04 00:57 G 5479074.42 5479074.54 5479074.68 0.0284 0.0160

Mars 10289-04-04 21:07 G 5479134.30 5479134.38 5479134.47 0.1929 0.1415

Saturn 10289-05-03 18:57 G 5479163.13 5479163.29 5479163.45 0.0284 0.0032

Saturn 10289-07-31 13:11 G 5479251.90 5479252.05 5479252.21 0.0284 0.0097

Saturn 10289-10-28 07:40 G 5479340.73 5479340.82 5479340.92 0.0284 0.0229

Jupiter 10291-06-03 09:07 G 5479923.74 5479923.88 5479924.02 0.0544 0.0062

Venus 10292-02-21 18:00 G 5480187.15 5480187.25 5480187.35 0.3683 0.1515

Uranus 10292-12-16 11:45 G 5480485.92 5480485.99 5480486.09 0.0145 0.0125

Uranus 10293-03-14 18:28 G 5480574.16 5480574.27 5480574.41 0.0145 0.0099

Uranus 10293-06-11 01:26 G 5480662.42 5480662.56 5480662.72 0.0144 0.0072

Venus 10293-09-04 14:52 G 5480748.03 5480748.12 5480748.22 0.3687 0.2485

Uranus 10293-09-07 08:23 G 5480750.69 5480750.85 5480751.02 0.0144 0.0044

Uranus 10293-12-04 15:21 G 5480838.96 5480839.14 5480839.31 0.0144 0.0017

Uranus 10294-03-02 22:19 G 5480927.25 5480927.43 5480927.61 0.0144 0.0010

Uranus 10294-05-30 05:16 G 5481015.55 5481015.72 5481015.89 0.0144 0.0037

Uranus 10294-08-26 12:14 G 5481103.86 5481104.01 5481104.17 0.0144 0.0065

Uranus 10294-11-22 19:11 G 5481192.18 5481192.30 5481192.45 0.0144 0.0093

Uranus 10295-02-19 02:23 G 5481280.51 5481280.60 5481280.71 0.0144 0.0121

Moon 10295-08-11 00:57 G 5481453.50 5481453.54 5481453.58 0.2677 0.2548

Earth 10295-08-11 01:55 G 5481453.52 5481453.58 5481453.65 0.2674 0.2337 *

Jupiter 10297-04-17 06:00 G 5482068.58 5482068.75 5482068.91 0.0485 0.0005

Venus 10297-09-06 12:00 G 5482210.88 5482211.00 5482211.11 0.3684 0.0223

Mars 10297-10-13 22:33 G 5482248.31 5482248.44 5482248.58 0.1608 0.0863

Earth 10299-02-18 00:28 G 5482740.44 5482740.52 5482740.61 0.2662 0.1779

Moon 10299-02-18 01:26 G 5482740.48 5482740.56 5482740.64 0.2661 0.1835 *

Venus 10299-03-21 15:50 G 5482772.02 5482772.16 5482772.29 0.3687 0.0321

Mars 10300-08-02 00:43 G 5483270.44 5483270.53 5483270.61 0.1915 0.1287

Jupiter 10303-03-23 11:31 G 5484233.86 5484233.98 5484234.11 0.0543 0.0229

Venus 10303-03-24 05:31 G 5484234.63 5484234.73 5484234.84 0.3685 0.1106

Jupiter 10303-06-21 01:11 G 5484323.48 5484323.55 5484323.62 0.0544 0.0464

Saturn 10303-12-09 22:48 G 5484495.37 5484495.45 5484495.54 0.0274 0.0223

Saturn 10304-03-07 12:28 G 5484583.89 5484584.02 5484584.16 0.0274 0.0117

Saturn 10304-06-04 01:55 G 5484672.44 5484672.58 5484672.73 0.0275 0.0015

Saturn 10304-08-31 15:07 G 5484761.00 5484761.13 5484761.27 0.0275 0.0090

Venus 10304-10-05 17:16 G 5484796.10 5484796.22 5484796.33 0.3686 0.1969

Saturn 10304-11-28 04:04 G 5484849.57 5484849.67 5484849.78 0.0275 0.0191

Moon 10306-02-11 19:55 G 5485290.30 5485290.33 5485290.37 0.2662 0.2513

Earth 10306-02-11 20:38 G 5485290.32 5485290.36 5485290.40 0.2658 0.2474 *

Mars 10307-03-07 03:07 G 5485678.59 5485678.63 5485678.67 0.1605 0.1538

Moon 10308-08-14 03:50 G 5486204.52 5486204.66 5486204.80 0.2679 0.0043

Earth 10308-08-14 04:33 G 5486204.54 5486204.69 5486204.83 0.2672 0.0077 *

Venus 10308-10-06 23:02 G 5486258.38 5486258.46 5486258.54 0.3685 0.2352

Jupiter 10309-02-04 06:43 G 5486378.62 5486378.78 5486378.94 0.0485 0.0145

Mars 10309-02-10 11:16 G 5486384.89 5486384.97 5486385.06 0.1618 0.1369

Jupiter 10309-05-05 01:55 G 5486468.53 5486468.58 5486468.64 0.0484 0.0453

Mars 10309-12-23 07:40 G 5486700.71 5486700.82 5486700.94 0.1921 0.0441

Venus 10314-04-22 16:19 G 5488282.16 5488282.18 5488282.20 0.3686 0.3562

Jupiter 10315-01-09 13:40 G 5488543.98 5488544.07 5488544.16 0.0543 0.0403

Jupiter 10315-04-09 03:36 G 5488633.54 5488633.65 5488633.77 0.0544 0.0297

Saturn 10318-06-25 00:28 G 5489806.41 5489806.52 5489806.64 0.0284 0.0203

Mars 10318-07-03 14:52 G 5489814.98 5489815.12 5489815.27 0.1615 0.0631

Saturn 10318-09-21 18:14 G 5489895.11 5489895.26 5489895.42 0.0284 0.0077

Saturn 10318-12-19 12:28 G 5489983.86 5489984.02 5489984.18 0.0284 0.0052

Earth 10319-02-14 15:36 G 5490041.04 5490041.15 5490041.26 0.2659 0.0923

Moon 10319-02-14 15:50 G 5490041.05 5490041.16 5490041.27 0.2666 0.0931 *

Saturn 10319-03-18 06:57 G 5490072.66 5490072.79 5490072.92 0.0284 0.0183

Mars 10319-05-15 14:52 G 5490131.00 5490131.12 5490131.24 0.1925 0.0421

Jupiter 10320-11-23 07:55 G 5490688.70 5490688.83 5490688.96 0.0485 0.0288

Jupiter 10321-02-21 02:38 G 5490778.49 5490778.61 5490778.74 0.0485 0.0305

Earth 10321-08-17 07:11 G 5490955.75 5490955.80 5490955.85 0.2671 0.2486

Moon 10321-08-17 07:55 G 5490955.79 5490955.83 5490955.86 0.2677 0.2593 *

Jupiter 10327-01-26 05:02 G 5492943.58 5492943.71 5492943.85 0.0543 0.0110

Mars 10327-11-23 18:57 G 5493245.13 5493245.29 5493245.45 0.1611 0.0079

Mars 10328-10-04 21:21 G 5493561.30 5493561.39 5493561.47 0.1929 0.1333

Earth 10332-02-17 10:48 G 5494791.83 5494791.95 5494792.06 0.2660 0.0609

Moon 10332-02-17 11:16 G 5494791.86 5494791.97 5494792.08 0.2664 0.0681 *

Jupiter 10332-09-11 09:07 G 5494998.81 5494998.88 5494998.95 0.0486 0.0431

Jupiter 10332-12-10 03:21 G 5495088.49 5495088.64 5495088.80 0.0485 0.0156

Saturn 10333-04-28 01:40 G 5495227.51 5495227.57 5495227.64 0.0275 0.0244

Saturn 10333-07-25 15:36 G 5495316.02 5495316.15 5495316.28 0.0275 0.0138

Saturn 10333-10-22 05:02 G 5495404.57 5495404.71 5495404.86 0.0275 0.0034

Saturn 10334-01-18 18:28 G 5495493.13 5495493.27 5495493.41 0.0276 0.0071

Saturn 10334-04-17 07:26 G 5495581.70 5495581.81 5495581.92 0.0276 0.0172

Saturn 10334-07-14 20:09 G 5495670.33 5495670.34 5495670.37 0.0276 0.0272

Uranus 10335-09-28 00:14 G 5496110.48 5496110.51 5496110.56 0.0134 0.0127

Uranus 10335-12-25 04:04 G 5496198.59 5496198.67 5496198.75 0.0134 0.0109

Uranus 10336-03-22 07:55 G 5496286.72 5496286.83 5496286.93 0.0134 0.0091

Uranus 10336-06-18 11:16 G 5496374.86 5496374.97 5496375.09 0.0134 0.0074

Uranus 10336-09-14 14:52 G 5496463.00 5496463.12 5496463.26 0.0134 0.0056

Uranus 10336-12-11 18:43 G 5496551.14 5496551.28 5496551.41 0.0134 0.0038

Uranus 10337-03-09 22:04 G 5496639.28 5496639.42 5496639.56 0.0134 0.0021

Mars 10337-04-14 23:02 G 5496675.33 5496675.46 5496675.60 0.1608 0.0776

Uranus 10337-06-06 01:40 G 5496727.43 5496727.57 5496727.71 0.0134 0.0004

Uranus 10337-09-02 05:16 G 5496815.58 5496815.72 5496815.86 0.0134 0.0014

Uranus 10337-11-29 08:38 G 5496903.73 5496903.86 5496904.00 0.0134 0.0032

Uranus 10338-02-25 12:14 G 5496991.88 5496992.01 5496992.14 0.0134 0.0049

Uranus 10338-05-24 15:36 G 5497080.04 5497080.15 5497080.28 0.0134 0.0067

Uranus 10338-08-20 19:11 G 5497168.19 5497168.30 5497168.41 0.0134 0.0084

Jupiter 10338-11-14 06:57 G 5497253.65 5497253.79 5497253.93 0.0543 0.0069

Uranus 10338-11-16 22:33 G 5497256.35 5497256.44 5497256.53 0.0134 0.0101

Uranus 10339-02-13 01:55 G 5497344.52 5497344.58 5497344.65 0.0134 0.0118

Mars 10340-02-01 00:43 G 5497697.45 5497697.53 5497697.61 0.1916 0.1367

Moon 10341-08-12 06:57 G 5498255.69 5498255.79 5498255.89 0.2678 0.1916

Earth 10341-08-12 07:55 G 5498255.73 5498255.83 5498255.93 0.2674 0.1873 *

Venus 10343-03-15 22:04 G 5498836.34 5498836.42 5498836.50 0.3683 0.2456

Jupiter 10344-09-28 04:04 G 5499398.50 5499398.67 5499398.83 0.0485 0.0011

Earth 10345-02-19 05:31 G 5499542.66 5499542.73 5499542.80 0.2662 0.2089

Moon 10345-02-19 06:14 G 5499542.70 5499542.76 5499542.82 0.2661 0.2250 *

Mars 10346-09-05 03:36 G 5500105.59 5500105.65 5500105.72 0.1606 0.1446

Saturn 10347-11-12 02:52 G 5500538.53 5500538.62 5500538.72 0.0284 0.0226

Saturn 10348-02-08 20:23 G 5500627.21 5500627.35 5500627.51 0.0284 0.0101

Saturn 10348-05-07 14:38 G 5500715.94 5500716.11 5500716.27 0.0284 0.0028

Saturn 10348-08-04 08:52 G 5500804.73 5500804.87 5500805.01 0.0284 0.0158

Mars 10348-08-11 12:00 G 5500811.93 5500812.00 5500812.06 0.1618 0.1467

Venus 10348-09-28 16:04 G 5500860.07 5500860.17 5500860.28 0.3684 0.1100

Mars 10349-06-23 07:55 G 5501127.72 5501127.83 5501127.95 0.1920 0.0535

Venus 10350-04-12 14:52 G 5501421.01 5501421.12 5501421.24 0.3687 0.1840

Jupiter 10350-09-02 09:07 G 5501563.76 5501563.88 5501564.01 0.0543 0.0242

Jupiter 10350-11-30 22:48 G 5501653.38 5501653.45 5501653.53 0.0544 0.0452

Moon 10352-02-13 01:11 G 5502092.49 5502092.55 5502092.61 0.2663 0.2258

Earth 10352-02-13 01:26 G 5502092.50 5502092.56 5502092.63 0.2658 0.2144 *

Neptune 10353-08-24 18:57 G 5502651.29 5502651.29 5502651.31 0.0088 0.0088

Neptune 10353-11-20 21:07 G 5502739.33 5502739.38 5502739.47 0.0088 0.0080

Neptune 10354-02-16 23:45 G 5502827.41 5502827.49 5502827.60 0.0088 0.0072

Venus 10354-04-14 10:04 G 5502883.80 5502883.92 5502884.03 0.3684 0.0260

Neptune 10354-05-16 02:09 G 5502915.49 5502915.59 5502915.72 0.0088 0.0064

Neptune 10354-08-12 04:33 G 5503003.58 5503003.69 5503003.84 0.0088 0.0056

Moon 10354-08-15 10:04 G 5503006.78 5503006.92 5503007.06 0.2678 0.0426

Earth 10354-08-15 10:33 G 5503006.79 5503006.94 5503007.08 0.2672 0.0519 *

Neptune 10354-11-08 07:26 G 5503091.67 5503091.81 5503091.96 0.0088 0.0047

Neptune 10355-02-04 09:50 G 5503179.77 5503179.91 5503180.07 0.0088 0.0039

Neptune 10355-05-03 12:28 G 5503267.87 5503268.02 5503268.18 0.0088 0.0031

Neptune 10355-07-30 14:52 G 5503355.97 5503356.12 5503356.29 0.0088 0.0023

Neptune 10355-10-26 17:45 G 5503444.07 5503444.24 5503444.40 0.0088 0.0014

Venus 10355-10-27 15:50 G 5503445.03 5503445.16 5503445.29 0.3686 0.0355

Neptune 10356-01-22 20:09 G 5503532.17 5503532.34 5503532.51 0.0088 0.0006

Neptune 10356-04-19 22:48 G 5503620.28 5503620.45 5503620.62 0.0088 0.0002

Neptune 10356-07-17 01:11 G 5503708.39 5503708.55 5503708.73 0.0088 0.0011

Jupiter 10356-07-17 05:02 G 5503708.55 5503708.71 5503708.87 0.0485 0.0141 *

Neptune 10356-10-13 03:50 G 5503796.50 5503796.66 5503796.83 0.0088 0.0019

Jupiter 10356-10-15 00:14 G 5503798.46 5503798.51 5503798.56 0.0484 0.0456

Neptune 10357-01-09 06:28 G 5503884.61 5503884.77 5503884.94 0.0088 0.0028

Neptune 10357-04-07 09:07 G 5503972.73 5503972.88 5503973.04 0.0088 0.0036

Neptune 10357-07-04 11:31 G 5504060.85 5504060.98 5504061.14 0.0088 0.0045

Neptune 10357-09-30 14:23 G 5504148.97 5504149.10 5504149.24 0.0088 0.0053

Neptune 10357-12-27 16:48 G 5504237.09 5504237.20 5504237.34 0.0088 0.0062

Mars 10358-01-01 15:36 G 5504242.01 5504242.15 5504242.29 0.1615 0.0730

Neptune 10358-03-25 19:40 G 5504325.22 5504325.32 5504325.43 0.0088 0.0070

Neptune 10358-06-21 22:04 G 5504413.36 5504413.42 5504413.51 0.0088 0.0079

Neptune 10358-09-18 00:57 G 5504501.54 5504501.54 5504501.56 0.0088 0.0088

Mars 10358-11-13 14:38 G 5504558.00 5504558.11 5504558.23 0.1925 0.0353

Venus 10359-10-29 03:36 G 5504907.55 5504907.65 5504907.75 0.3685 0.1494

Venus 10361-05-12 17:16 G 5505469.13 5505469.22 5505469.32 0.3686 0.2672

Jupiter 10362-06-21 11:31 G 5505873.89 5505873.98 5505874.07 0.0543 0.0411

Jupiter 10362-09-19 01:40 G 5505963.46 5505963.57 5505963.69 0.0544 0.0291

Saturn 10362-12-12 16:48 G 5506048.08 5506048.20 5506048.31 0.0274 0.0173

Saturn 10363-03-11 06:14 G 5506136.62 5506136.76 5506136.91 0.0275 0.0068

Saturn 10363-06-07 19:40 G 5506225.18 5506225.32 5506225.46 0.0275 0.0036

Saturn 10363-09-04 08:38 G 5506313.74 5506313.86 5506313.99 0.0275 0.0138

Saturn 10363-12-01 21:36 G 5506402.33 5506402.40 5506402.47 0.0275 0.0238

Earth 10365-02-14 20:38 G 5506843.25 5506843.36 5506843.48 0.2659 0.0602

Moon 10365-02-14 20:52 G 5506843.26 5506843.37 5506843.48 0.2666 0.0537 *

Venus 10365-05-13 20:52 G 5506931.30 5506931.37 5506931.45 0.3685 0.2736

Mars 10367-05-24 19:26 G 5507672.15 5507672.31 5507672.46 0.1611 0.0035

Mars 10368-04-04 21:21 G 5507988.30 5507988.39 5507988.49 0.1929 0.1241

Jupiter 10368-05-05 05:45 G 5508018.62 5508018.74 5508018.88 0.0485 0.0289

Jupiter 10368-08-03 00:28 G 5508108.40 5508108.52 5508108.65 0.0484 0.0303

Jupiter 10374-07-08 04:04 G 5510273.54 5510273.67 5510273.81 0.0544 0.0121

Uranus 10376-10-10 12:43 G 5511099.02 5511099.03 5511099.05 0.0145 0.0144

Mars 10376-10-13 23:31 G 5511102.34 5511102.48 5511102.62 0.1608 0.0689

Uranus 10377-01-06 19:11 G 5511187.22 5511187.30 5511187.42 0.0145 0.0118

Saturn 10377-03-31 02:23 G 5511270.55 5511270.60 5511270.65 0.0285 0.0269

Uranus 10377-04-05 02:09 G 5511275.46 5511275.59 5511275.73 0.0145 0.0091

Saturn 10377-06-27 19:55 G 5511359.19 5511359.33 5511359.47 0.0284 0.0145

Uranus 10377-07-02 09:07 G 5511363.73 5511363.88 5511364.04 0.0144 0.0064

Saturn 10377-09-24 13:40 G 5511447.91 5511448.07 5511448.24 0.0284 0.0018

Uranus 10377-09-28 16:04 G 5511452.00 5511452.17 5511452.34 0.0144 0.0037

Saturn 10377-12-22 07:55 G 5511536.68 5511536.83 5511536.98 0.0284 0.0112

Uranus 10377-12-25 22:48 G 5511540.28 5511540.45 5511540.63 0.0144 0.0011

Earth 10378-02-17 15:36 G 5511594.05 5511594.15 5511594.26 0.2660 0.0924

Moon 10378-02-17 16:19 G 5511594.08 5511594.18 5511594.29 0.2663 0.1007 *

Saturn 10378-03-21 02:38 G 5511625.53 5511625.61 5511625.69 0.0284 0.0244

Uranus 10378-03-24 05:45 G 5511628.57 5511628.74 5511628.92 0.0144 0.0018

Uranus 10378-06-20 12:57 G 5511716.87 5511717.04 5511717.21 0.0144 0.0045

Uranus 10378-09-16 19:40 G 5511805.18 5511805.32 5511805.48 0.0144 0.0073

Uranus 10378-12-14 02:52 G 5511893.50 5511893.62 5511893.76 0.0144 0.0101

Uranus 10379-03-12 09:50 G 5511981.85 5511981.91 5511982.01 0.0144 0.0129

Mars 10379-08-02 00:57 G 5512124.46 5512124.54 5512124.61 0.1916 0.1460

Jupiter 10380-02-22 07:11 G 5512328.73 5512328.80 5512328.87 0.0485 0.0430

Jupiter 10380-05-22 01:26 G 5512418.40 5512418.56 5512418.72 0.0485 0.0155

Pluto 10381-04-22 07:11 G 5512753.74 5512753.80 5512753.86 0.0071 0.0063

Pluto 10381-07-19 07:55 G 5512841.75 5512841.83 5512841.92 0.0071 0.0054

Pluto 10381-10-15 08:38 G 5512929.76 5512929.86 5512929.96 0.0071 0.0045

Pluto 10382-01-11 09:21 G 5513017.78 5513017.89 5513018.01 0.0071 0.0036

Pluto 10382-04-09 10:04 G 5513105.80 5513105.92 5513106.05 0.0071 0.0027

Pluto 10382-07-06 10:48 G 5513193.82 5513193.95 5513194.09 0.0071 0.0018

Pluto 10382-10-02 11:31 G 5513281.85 5513281.98 5513282.12 0.0072 0.0009

Pluto 10382-12-29 12:28 G 5513369.88 5513370.02 5513370.15 0.0072 0.0002

Pluto 10383-03-27 13:11 G 5513457.91 5513458.05 5513458.18 0.0072 0.0010

Pluto 10383-06-23 13:55 G 5513545.95 5513546.08 5513546.21 0.0072 0.0019

Pluto 10383-09-19 14:38 G 5513633.99 5513634.11 5513634.24 0.0072 0.0029

Pluto 10383-12-16 15:36 G 5513722.03 5513722.15 5513722.26 0.0072 0.0039

Pluto 10384-03-13 16:04 G 5513810.08 5513810.17 5513810.28 0.0072 0.0049

Pluto 10384-06-09 16:48 G 5513898.13 5513898.20 5513898.29 0.0072 0.0058

Pluto 10384-09-05 18:00 G 5513986.20 5513986.25 5513986.29 0.0073 0.0068

Mars 10386-03-06 04:04 G 5514532.59 5514532.67 5514532.75 0.1606 0.1359

Jupiter 10386-04-26 05:31 G 5514583.59 5514583.73 5514583.87 0.0543 0.0066

Moon 10387-08-13 12:57 G 5515057.93 5515058.04 5515058.15 0.2679 0.1629

Earth 10387-08-13 13:55 G 5515057.96 5515058.08 5515058.20 0.2673 0.1402 *

Mars 10388-02-10 12:28 G 5515238.98 5515239.02 5515239.06 0.1618 0.1560

Mars 10388-12-22 07:55 G 5515554.72 5515554.83 5515554.95 0.1920 0.0617

Earth 10391-02-20 10:33 G 5516344.89 5516344.94 5516344.98 0.2662 0.2404

Moon 10391-02-20 11:16 G 5516344.93 5516344.97 5516345.01 0.2661 0.2476 *

Jupiter 10392-03-10 02:09 G 5516728.43 5516728.59 5516728.76 0.0485 0.0009

Saturn 10392-04-30 19:26 G 5516780.21 5516780.31 5516780.41 0.0275 0.0195

Saturn 10392-07-28 09:07 G 5516868.74 5516868.88 5516869.02 0.0275 0.0089

Saturn 10392-10-24 22:33 G 5516957.30 5516957.44 5516957.59 0.0276 0.0016

Saturn 10393-01-21 11:45 G 5517045.86 5517045.99 5517046.12 0.0276 0.0118

Saturn 10393-04-20 00:43 G 5517134.45 5517134.53 5517134.62 0.0276 0.0219

Venus 10394-04-06 02:09 G 5517485.55 5517485.59 5517485.63 0.3683 0.3420

Mars 10397-07-02 16:04 G 5518669.03 5518669.17 5518669.31 0.1615 0.0823

Jupiter 10398-02-12 07:11 G 5518893.68 5518893.80 5518893.92 0.0543 0.0247

Moon 10398-02-13 06:28 G 5518894.68 5518894.77 5518894.85 0.2664 0.1788

Earth 10398-02-13 06:28 G 5518894.69 5518894.77 5518894.86 0.2658 0.1818 *

Jupiter 10398-05-12 20:52 G 5518983.29 5518983.37 5518983.45 0.0543 0.0444

Mars 10398-05-14 14:52 G 5518985.00 5518985.12 5518985.24 0.1925 0.0257

Venus 10399-10-20 20:09 G 5519509.25 5519509.34 5519509.44 0.3683 0.2038

Moon 10400-08-15 16:19 G 5519809.05 5519809.18 5519809.31 0.2678 0.1057

Earth 10400-08-15 16:19 G 5519809.05 5519809.18 5519809.32 0.2672 0.0996 *

Venus 10401-05-03 14:09 G 5520070.04 5520070.09 5520070.15 0.3687 0.3300

Jupiter 10403-12-28 02:52 G 5521038.46 5521038.62 5521038.78 0.0485 0.0143

Jupiter 10404-03-26 22:04 G 5521128.37 5521128.42 5521128.47 0.0484 0.0455

Venus 10405-05-05 14:09 G 5521532.98 5521533.09 5521533.20 0.3684 0.0691

Saturn 10406-11-14 22:33 G 5522091.31 5522091.44 5522091.58 0.0284 0.0165

Venus 10406-11-17 14:52 G 5522093.99 5522094.12 5522094.24 0.3687 0.1190

Mars 10406-11-22 19:55 G 5522099.17 5522099.33 5522099.49 0.1611 0.0103

Saturn 10407-02-11 16:19 G 5522180.02 5522180.18 5522180.35 0.0284 0.0040

Saturn 10407-05-11 10:33 G 5522268.78 5522268.94 5522269.10 0.0284 0.0090

Saturn 10407-08-08 05:02 G 5522357.61 5522357.71 5522357.82 0.0284 0.0221

Mars 10407-10-04 21:36 G 5522415.30 5522415.40 5522415.49 0.1929 0.1158

Jupiter 10409-12-01 08:52 G 5523203.79 5523203.87 5523203.96 0.0543 0.0426

Jupiter 10410-02-28 23:16 G 5523293.35 5523293.47 5523293.59 0.0544 0.0277

Venus 10410-11-19 07:55 G 5523556.72 5523556.83 5523556.94 0.3685 0.0613

Earth 10411-02-16 01:40 G 5523645.46 5523645.57 5523645.69 0.2659 0.0278

Moon 10411-02-16 01:55 G 5523645.47 5523645.58 5523645.70 0.2665 0.0301 *

Venus 10412-06-02 15:50 G 5524118.03 5524118.16 5524118.29 0.3686 0.1027

Jupiter 10415-10-16 04:04 G 5525348.54 5525348.67 5525348.80 0.0485 0.0286

Jupiter 10416-01-13 22:48 G 5525438.32 5525438.45 5525438.58 0.0484 0.0305

Mars 10416-04-14 00:00 G 5525529.36 5525529.50 5525529.65 0.1608 0.0598

Venus 10416-06-04 01:26 G 5525580.47 5525580.56 5525580.66 0.3685 0.1882

Venus 10417-12-17 17:31 G 5526142.18 5526142.23 5526142.28 0.3685 0.3395

Mars 10419-01-31 00:57 G 5526551.47 5526551.54 5526551.61 0.1915 0.1535

Uranus 10419-10-18 07:40 G 5526811.77 5526811.82 5526811.88 0.0134 0.0122

Uranus 10420-01-14 11:02 G 5526899.89 5526899.96 5526900.06 0.0134 0.0105

Uranus 10420-04-11 14:52 G 5526988.02 5526988.12 5526988.24 0.0134 0.0087

Uranus 10420-07-08 18:28 G 5527076.16 5527076.27 5527076.40 0.0134 0.0069

Uranus 10420-10-04 22:19 G 5527164.30 5527164.43 5527164.56 0.0134 0.0051

Uranus 10421-01-01 01:40 G 5527252.44 5527252.57 5527252.71 0.0134 0.0034

Uranus 10421-03-30 05:31 G 5527340.59 5527340.73 5527340.87 0.0134 0.0016

Uranus 10421-06-26 08:52 G 5527428.73 5527428.87 5527429.02 0.0134 0.0004

Saturn 10421-09-17 20:38 G 5527512.29 5527512.36 5527512.45 0.0274 0.0229

Uranus 10421-09-22 12:28 G 5527516.88 5527517.02 5527517.16 0.0134 0.0019

Saturn 10421-12-15 10:33 G 5527600.81 5527600.94 5527601.08 0.0274 0.0122

Jupiter 10421-12-18 01:55 G 5527603.45 5527603.58 5527603.72 0.0544 0.0113

Venus 10421-12-18 18:43 G 5527604.23 5527604.28 5527604.34 0.3686 0.3105

Uranus 10421-12-19 16:04 G 5527605.03 5527605.17 5527605.30 0.0134 0.0037

Saturn 10422-03-14 00:14 G 5527689.36 5527689.51 5527689.65 0.0275 0.0019

Uranus 10422-03-17 19:26 G 5527693.18 5527693.31 5527693.44 0.0134 0.0054

Saturn 10422-06-10 13:26 G 5527777.92 5527778.06 5527778.20 0.0275 0.0085

Uranus 10422-06-13 22:48 G 5527781.34 5527781.45 5527781.58 0.0134 0.0071

Saturn 10422-09-07 02:23 G 5527866.50 5527866.60 5527866.71 0.0275 0.0186

Uranus 10422-09-10 02:23 G 5527869.50 5527869.60 5527869.71 0.0134 0.0088

Uranus 10422-12-07 05:45 G 5527957.66 5527957.74 5527957.83 0.0134 0.0105

Uranus 10423-03-05 09:07 G 5528045.83 5528045.88 5528045.94 0.0134 0.0122

Earth 10424-02-18 20:38 G 5528396.26 5528396.36 5528396.46 0.2660 0.1235

Moon 10424-02-18 21:21 G 5528396.30 5528396.39 5528396.49 0.2663 0.1383 *

Mars 10425-09-04 04:33 G 5528959.60 5528959.69 5528959.78 0.1606 0.1277

Jupiter 10427-08-04 05:02 G 5529658.64 5529658.71 5529658.78 0.0485 0.0431

Jupiter 10427-11-01 23:16 G 5529748.31 5529748.47 5529748.63 0.0485 0.0153

Mars 10428-06-22 08:09 G 5529981.73 5529981.84 5529981.95 0.1920 0.0700

Moon 10433-08-13 18:57 G 5531860.16 5531860.29 5531860.43 0.2678 0.0954

Earth 10433-08-13 19:55 G 5531860.20 5531860.33 5531860.47 0.2673 0.0924 *

Jupiter 10433-10-06 04:19 G 5531913.54 5531913.68 5531913.82 0.0543 0.0057

Saturn 10436-04-02 21:50 G 5532823.31 5532823.41 5532823.52 0.0284 0.0209

Neptune 10436-05-29 06:43 G 5532879.72 5532879.78 5532879.84 0.0089 0.0082

Saturn 10436-06-30 15:36 G 5532911.99 5532912.15 5532912.30 0.0284 0.0084

Neptune 10436-08-25 08:09 G 5532967.78 5532967.84 5532967.94 0.0089 0.0075

Saturn 10436-09-27 09:36 G 5533000.74 5533000.90 5533001.06 0.0284 0.0044

Neptune 10436-11-21 10:19 G 5533055.84 5533055.93 5533056.03 0.0089 0.0066

Saturn 10436-12-25 03:50 G 5533089.54 5533089.66 5533089.80 0.0284 0.0175

Mars 10436-12-31 16:33 G 5533096.06 5533096.19 5533096.32 0.1615 0.0910

Neptune 10437-02-17 12:14 G 5533143.90 5533144.01 5533144.12 0.0089 0.0059

Neptune 10437-05-16 14:09 G 5533231.97 5533232.09 5533232.21 0.0089 0.0051

Neptune 10437-08-12 15:50 G 5533320.04 5533320.16 5533320.30 0.0089 0.0043

Neptune 10437-11-08 17:45 G 5533408.11 5533408.24 5533408.38 0.0089 0.0036

Mars 10437-11-12 15:07 G 5533412.01 5533412.13 5533412.25 0.1925 0.0168

Neptune 10438-02-04 19:26 G 5533496.18 5533496.31 5533496.46 0.0089 0.0028

Neptune 10438-05-03 21:21 G 5533584.25 5533584.39 5533584.54 0.0089 0.0020

Neptune 10438-07-30 23:16 G 5533672.32 5533672.47 5533672.61 0.0089 0.0013

Neptune 10438-10-27 00:57 G 5533760.40 5533760.54 5533760.69 0.0089 0.0006

Neptune 10439-01-23 02:52 G 5533848.47 5533848.62 5533848.77 0.0089 0.0002

Neptune 10439-04-21 04:33 G 5533936.55 5533936.69 5533936.84 0.0089 0.0010

Neptune 10439-07-18 06:14 G 5534024.62 5534024.76 5534024.91 0.0089 0.0018

Jupiter 10439-08-21 00:14 G 5534058.34 5534058.51 5534058.67 0.0485 0.0006

Neptune 10439-10-14 08:09 G 5534112.70 5534112.84 5534112.98 0.0089 0.0025

Neptune 10440-01-10 09:50 G 5534200.78 5534200.91 5534201.05 0.0089 0.0032

Neptune 10440-04-07 11:31 G 5534288.86 5534288.98 5534289.12 0.0089 0.0040

Neptune 10440-07-04 13:26 G 5534376.94 5534377.06 5534377.18 0.0089 0.0047

Neptune 10440-09-30 14:52 G 5534465.02 5534465.12 5534465.24 0.0089 0.0055

Neptune 10440-12-27 16:33 G 5534553.10 5534553.19 5534553.31 0.0089 0.0062

Neptune 10441-03-25 18:28 G 5534641.18 5534641.27 5534641.36 0.0089 0.0069

Neptune 10441-06-21 19:55 G 5534729.27 5534729.33 5534729.42 0.0089 0.0077

Neptune 10441-09-17 21:36 G 5534817.37 5534817.40 5534817.46 0.0089 0.0084

Moon 10444-02-14 11:31 G 5535696.89 5535696.98 5535697.07 0.2665 0.1581

Earth 10444-02-14 11:31 G 5535696.89 5535696.98 5535697.08 0.2658 0.1490 *

Jupiter 10445-07-25 05:45 G 5536223.61 5536223.74 5536223.86 0.0542 0.0244

Jupiter 10445-10-22 19:26 G 5536313.23 5536313.31 5536313.39 0.0543 0.0447

Mars 10446-05-23 20:23 G 5536526.20 5536526.35 5536526.51 0.1612 0.0197

Moon 10446-08-16 22:33 G 5536611.32 5536611.44 5536611.56 0.2679 0.1427

Earth 10446-08-16 22:19 G 5536611.32 5536611.43 5536611.55 0.2672 0.1481 *

Mars 10447-04-04 21:36 G 5536842.30 5536842.40 5536842.50 0.1929 0.1069

Venus 10450-11-11 00:14 G 5538158.44 5538158.51 5538158.57 0.3683 0.2994

Saturn 10451-02-04 23:16 G 5538244.42 5538244.47 5538244.53 0.0275 0.0252

Saturn 10451-05-04 13:11 G 5538332.93 5538333.05 5538333.18 0.0275 0.0146

Jupiter 10451-06-09 00:57 G 5538368.39 5538368.54 5538368.70 0.0485 0.0143

Saturn 10451-08-01 02:52 G 5538421.48 5538421.62 5538421.77 0.0275 0.0040

Jupiter 10451-09-06 20:09 G 5538458.29 5538458.34 5538458.40 0.0485 0.0457

Saturn 10451-10-28 16:19 G 5538510.04 5538510.18 5538510.32 0.0276 0.0064

Saturn 10452-01-25 05:16 G 5538598.61 5538598.72 5538598.84 0.0276 0.0166

Saturn 10452-04-22 18:14 G 5538687.22 5538687.26 5538687.30 0.0276 0.0265

Mars 10455-10-14 00:43 G 5539956.38 5539956.53 5539956.68 0.1608 0.0506

Venus 10456-05-26 18:28 G 5540182.17 5540182.27 5540182.37 0.3684 0.1617

Earth 10457-02-16 06:43 G 5540447.66 5540447.78 5540447.90 0.2659 0.0055

Moon 10457-02-16 07:11 G 5540447.68 5540447.80 5540447.92 0.2664 0.0172 *

Jupiter 10457-05-13 07:11 G 5540533.72 5540533.80 5540533.89 0.0542 0.0428

Jupiter 10457-08-10 21:21 G 5540623.27 5540623.39 5540623.51 0.0543 0.0272

Venus	10457-12-08 14:09 G	5540743.00	5540743.09	5540743.18	0.3687	0.2674
Mars	10458-08-01 00:57 G	5540978.48	5540978.54	5540978.60	0.1915	0.1622
Uranus	10460-10-30 20:09 G	5541800.30	5541800.34	5541800.40	0.0145	0.0137
Uranus	10461-01-27 03:07 G	5541888.52	5541888.63	5541888.74	0.0145	0.0110
Uranus	10461-04-25 09:36 G	5541976.77	5541976.90	5541977.05	0.0145	0.0084
Uranus	10461-07-22 16:33 G	5542065.04	5542065.19	5542065.36	0.0145	0.0057
Uranus	10461-10-18 23:31 G	5542153.31	5542153.48	5542153.65	0.0144	0.0029
Venus	10461-12-10 12:14 G	5542205.90	5542206.01	5542206.12	0.3684	0.0283
Uranus	10462-01-15 06:28 G	5542241.60	5542241.77	5542241.95	0.0144	0.0002
Uranus	10462-04-13 13:26 G	5542329.89	5542330.06	5542330.24	0.0144	0.0025
Uranus	10462-07-10 20:23 G	5542418.19	5542418.35	5542418.52	0.0144	0.0053
Uranus	10462-10-07 03:36 G	5542506.50	5542506.65	5542506.80	0.0144	0.0081
Uranus	10463-01-03 10:48 G	5542594.83	5542594.95	5542595.06	0.0144	0.0108
Jupiter	10463-03-28 01:55 G	5542678.45	5542678.58	5542678.71	0.0485	0.0289
Uranus	10463-04-01 17:45 G	5542683.19	5542683.24	5542683.30	0.0144	0.0136
Venus	10463-06-24 14:38 G	5542766.98	5542767.11	5542767.25	0.3686	0.0546
Jupiter	10463-06-25 20:23 G	5542768.23	5542768.35	5542768.49	0.0485	0.0303
Mars	10465-03-05 05:02 G	5543386.61	5543386.71	5543386.81	0.1606	0.1185
Saturn	10465-08-21 00:57 G	5543555.45	5543555.54	5543555.63	0.0284	0.0228
Saturn	10465-11-17 18:28 G	5543644.12	5543644.27	5543644.42	0.0284	0.0104
Saturn	10466-02-14 12:28 G	5543732.85	5543733.02	5543733.18	0.0284	0.0024
Saturn	10466-05-14 06:43 G	5543821.64	5543821.78	5543821.92	0.0284	0.0154
Pluto	10466-09-15 18:28 G	5543946.25	5543946.27	5543946.30	0.0073	0.0072
Pluto	10466-12-12 20:09 G	5544034.26	5544034.34	5544034.48	0.0073	0.0059
Pluto	10467-03-10 22:33 G	5544122.31	5544122.44	5544122.61	0.0073	0.0045
Pluto	10467-06-07 01:11 G	5544210.38	5544210.55	5544210.72	0.0073	0.0031
Venus	10467-06-26 06:00 G	5544229.64	5544229.75	5544229.85	0.3685	0.1011
Pluto	10467-09-03 03:21 G	5544298.46	5544298.64	5544298.83	0.0073	0.0018
Pluto	10467-11-30 05:31 G	5544386.55	5544386.73	5544386.92	0.0073	0.0004
Mars	10467-12-22 08:09 G	5544408.73	5544408.84	5544408.95	0.1920	0.0785

Pluto	10468-02-26 07:40 G	5544474.64	5544474.82	5544475.01	0.0072	0.0010
Pluto	10468-05-24 09:50 G	5544562.74	5544562.91	5544563.09	0.0072	0.0023
Pluto	10468-08-20 11:45 G	5544650.84	5544650.99	5544651.17	0.0072	0.0036
Pluto	10468-11-16 13:40 G	5544738.95	5544739.07	5544739.23	0.0072	0.0049
Venus	10469-01-07 16:04 G	5544791.05	5544791.17	5544791.29	0.3686	0.1730
Pluto	10469-02-12 15:50 G	5544827.09	5544827.16	5544827.27	0.0072	0.0062
Jupiter	10469-05-29 23:31 G	5544933.34	5544933.48	5544933.62	0.0544	0.0099
Earth	10470-02-19 01:40 G	5545198.48	5545198.57	5545198.66	0.2661	0.1553
Moon	10470-02-19 02:23 G	5545198.51	5545198.60	5545198.69	0.2663	0.1619 *
Venus	10473-01-08 23:31 G	5546253.39	5546253.48	5546253.56	0.3685	0.2263
Jupiter	10475-01-14 03:07 G	5546988.56	5546988.63	5546988.71	0.0485	0.0430
Jupiter	10475-04-13 21:21 G	5547078.24	5547078.39	5547078.55	0.0485	0.0155
Mars	10476-07-01 17:02 G	5547523.09	5547523.21	5547523.34	0.1615	0.1012
Mars	10477-05-13 15:07 G	5547839.01	5547839.13	5547839.25	0.1925	0.0091
Venus	10478-07-25 16:48 G	5548277.17	5548277.20	5548277.23	0.3686	0.3473
Moon	10479-08-15 01:11 G	5548662.42	5548662.55	5548662.69	0.2679	0.0617
Earth	10479-08-15 01:55 G	5548662.44	5548662.58	5548662.72	0.2673	0.0446 *
Saturn	10480-09-20 14:52 G	5549065.01	5549065.12	5549065.24	0.0274	0.0176
Saturn	10480-12-18 04:33 G	5549153.55	5549153.69	5549153.83	0.0275	0.0071
Saturn	10481-03-16 18:00 G	5549242.10	5549242.25	5549242.39	0.0275	0.0032
Jupiter	10481-03-18 01:55 G	5549243.45	5549243.58	5549243.72	0.0544	0.0070
Saturn	10481-06-13 07:11 G	5549330.67	5549330.80	5549330.92	0.0275	0.0134
Saturn	10481-09-09 19:55 G	5549419.26	5549419.33	5549419.41	0.0275	0.0234
Mars	10485-11-21 20:52 G	5550953.22	5550953.37	5550953.53	0.1611	0.0284
Mars	10486-10-03 21:50 G	5551269.31	5551269.41	5551269.51	0.1929	0.0978
Jupiter	10487-01-30 22:04 G	5551388.25	5551388.42	5551388.58	0.0485	0.0005
Moon	10490-02-14 16:33 G	5552499.09	5552499.19	5552499.30	0.2665	0.1124
Earth	10490-02-14 16:48 G	5552499.09	5552499.20	5552499.30	0.2658	0.1167 *
Earth	10492-08-17 04:33 G	5553413.59	5553413.69	5553413.79	0.2672	0.1975
Moon	10492-08-17 04:48 G	5553413.61	5553413.70	5553413.79	0.2679	0.2117 *

Jupiter 10493-01-04 04:19 G 5553553.55 5553553.68 5553553.80 0.0543 0.0239

Jupiter 10493-04-03 18:00 G 5553643.18 5553643.25 5553643.33 0.0544 0.0455

Saturn 10495-01-08 00:00 G 5554287.47 5554287.50 5554287.55 0.0285 0.0273

Saturn 10495-04-06 17:31 G 5554376.10 5554376.23 5554376.37 0.0284 0.0149

Mars 10495-04-14 00:57 G 5554383.39 5554383.54 5554383.69 0.1608 0.0421

Saturn 10495-07-04 11:31 G 5554464.81 5554464.98 5554465.14 0.0284 0.0024

Saturn 10495-10-01 05:31 G 5554553.58 5554553.73 5554553.89 0.0284 0.0107

Saturn 10495-12-29 00:14 G 5554642.42 5554642.51 5554642.60 0.0284 0.0238

Mars 10496-02-24 04:19 G 5554699.66 5554699.68 5554699.69 0.1932 0.1901

Mars 10498-01-30 01:11 G 5555405.50 5555405.55 5555405.60 0.1915 0.1710

Jupiter 10498-11-18 23:02 G 5555698.31 5555698.46 5555698.62 0.0485 0.0142

Jupiter 10499-02-16 18:14 G 5555788.21 5555788.26 5555788.31 0.0485 0.0456

Earth 10503-02-18 11:45 G 5557249.87 5557249.99 5557250.10 0.2659 0.0369

Moon 10503-02-18 12:14 G 5557249.90 5557250.01 5557250.13 0.2664 0.0400 *

Uranus 10503-11-08 14:52 G 5557513.07 5557513.12 5557513.20 0.0134 0.0117

Uranus 10504-02-04 18:43 G 5557601.19 5557601.28 5557601.38 0.0134 0.0099

Uranus 10504-05-02 22:19 G 5557689.33 5557689.43 5557689.55 0.0134 0.0081

Uranus 10504-07-30 02:09 G 5557777.46 5557777.59 5557777.72 0.0134 0.0063

Mars 10504-09-04 05:31 G 5557813.62 5557813.73 5557813.84 0.1606 0.1097

Jupiter 10504-10-24 05:45 G 5557863.65 5557863.74 5557863.82 0.0542 0.0424

Uranus 10504-10-26 05:45 G 5557865.61 5557865.74 5557865.87 0.0134 0.0045

Jupiter 10505-01-21 19:55 G 5557953.21 5557953.33 5557953.45 0.0543 0.0276

Uranus 10505-01-22 09:21 G 5557953.75 5557953.89 5557954.03 0.0134 0.0028

Uranus 10505-04-20 12:57 G 5558041.90 5558042.04 5558042.18 0.0134 0.0010

Uranus 10505-07-17 16:33 G 5558130.05 5558130.19 5558130.33 0.0134 0.0008

Uranus 10505-10-13 19:55 G 5558218.19 5558218.33 5558218.47 0.0134 0.0025

Uranus 10506-01-09 23:31 G 5558306.35 5558306.48 5558306.61 0.0134 0.0042

Uranus 10506-04-08 02:52 G 5558394.50 5558394.62 5558394.75 0.0134 0.0059

Uranus 10506-07-05 06:28 G 5558482.66 5558482.77 5558482.88 0.0134 0.0076

Uranus 10506-10-01 09:50 G 5558570.82 5558570.91 5558571.01 0.0134 0.0094

Uranus 10506-12-28 13:11 G 5558658.98 5558659.05 5558659.13 0.0134 0.0111

Uranus 10507-03-26 16:33 G 5558747.16 5558747.19 5558747.24 0.0134 0.0128

Venus 10507-06-18 22:19 G 5558831.35 5558831.43 5558831.51 0.3683 0.2564

Mars 10507-06-23 08:23 G 5558835.74 5558835.85 5558835.95 0.1920 0.0872

Saturn 10510-02-08 17:02 G 5559797.12 5559797.21 5559797.32 0.0275 0.0203

Saturn 10510-05-08 06:57 G 5559885.65 5559885.79 5559885.93 0.0275 0.0097

Saturn 10510-08-04 20:23 G 5559974.21 5559974.35 5559974.50 0.0276 0.0009

Jupiter 10510-09-08 00:00 G 5560008.37 5560008.50 5560008.63 0.0486 0.0289

Saturn 10510-11-01 09:36 G 5560062.77 5560062.90 5560063.04 0.0276 0.0111

Jupiter 10510-12-06 18:28 G 5560098.15 5560098.27 5560098.41 0.0485 0.0304

Saturn 10511-01-28 22:33 G 5560151.36 5560151.44 5560151.54 0.0276 0.0212

Moon 10512-08-13 04:33 G 5560713.64 5560713.69 5560713.73 0.2678 0.2512

Earth 10512-08-13 05:45 G 5560713.67 5560713.74 5560713.80 0.2674 0.2325 *

Venus 10513-01-01 16:33 G 5560855.08 5560855.19 5560855.29 0.3684 0.1200

Venus 10514-07-16 13:55 G 5561415.97 5561416.08 5561416.19 0.3687 0.2036

Mars 10516-01-01 17:45 G 5561950.12 5561950.24 5561950.35 0.1615 0.1106

Earth 10516-02-21 06:43 G 5562000.70 5562000.78 5562000.86 0.2661 0.1868

Moon 10516-02-21 07:26 G 5562000.73 5562000.81 5562000.88 0.2662 0.2028 *

Jupiter 10516-11-09 21:50 G 5562263.27 5562263.41 5562263.55 0.0543 0.0098

Mars 10516-11-12 15:07 G 5562266.01 5562266.13 5562266.25 0.1925 0.0072

Neptune 10518-05-22 17:16 G 5562822.20 5562822.22 5562822.27 0.0088 0.0086

Venus 10518-07-18 10:19 G 5562878.82 5562878.93 5562879.04 0.3684 0.0124

Neptune 10518-08-18 19:40 G 5562910.26 5562910.32 5562910.41 0.0088 0.0078

Neptune 10518-11-14 22:04 G 5562998.34 5562998.42 5562998.54 0.0088 0.0070

Neptune 10519-02-11 00:43 G 5563086.42 5563086.53 5563086.66 0.0088 0.0062

Neptune 10519-05-10 03:07 G 5563174.51 5563174.63 5563174.78 0.0088 0.0054

Neptune 10519-08-06 06:00 G 5563262.60 5563262.75 5563262.89 0.0088 0.0045

Neptune 10519-11-02 08:23 G 5563350.70 5563350.85 5563351.01 0.0088 0.0037

Neptune 10520-01-29 10:48 G 5563438.80 5563438.95 5563439.12 0.0088 0.0029

Venus 10520-01-30 14:38 G 5563439.98 5563440.11 5563440.25 0.3686 0.0155

Neptune 10520-04-26 13:26 G 5563526.90 5563527.06 5563527.23 0.0088 0.0021

Neptune 10520-07-23 15:50 G 5563615.00 5563615.16 5563615.34 0.0088 0.0013

Neptune 10520-10-19 18:28 G 5563703.10 5563703.27 5563703.44 0.0088 0.0005

Neptune 10521-01-15 21:07 G 5563791.21 5563791.38 5563791.55 0.0088 0.0004

Neptune 10521-04-13 23:45 G 5563879.32 5563879.49 5563879.66 0.0088 0.0013

Neptune 10521-07-11 02:09 G 5563967.43 5563967.59 5563967.76 0.0088 0.0021

Neptune 10521-10-07 04:33 G 5564055.54 5564055.69 5564055.87 0.0088 0.0030

Neptune 10522-01-03 07:26 G 5564143.66 5564143.81 5564143.97 0.0088 0.0038

Neptune 10522-04-01 09:50 G 5564231.78 5564231.91 5564232.07 0.0088 0.0047

Jupiter 10522-06-27 00:57 G 5564318.47 5564318.54 5564318.62 0.0486 0.0432

Neptune 10522-06-28 12:28 G 5564319.90 5564320.02 5564320.17 0.0088 0.0055

Neptune 10522-09-24 15:07 G 5564408.03 5564408.13 5564408.26 0.0088 0.0064

Jupiter 10522-09-24 19:11 G 5564408.14 5564408.30 5564408.46 0.0485 0.0152 *

Neptune 10522-12-21 18:00 G 5564496.16 5564496.25 5564496.35 0.0088 0.0072

Moon 10523-02-14 01:55 G 5564550.54 5564550.58 5564550.63 0.2663 0.2459

Earth 10523-02-14 02:23 G 5564550.55 5564550.60 5564550.65 0.2657 0.2392 *

Neptune 10523-03-19 20:23 G 5564584.30 5564584.35 5564584.43 0.0088 0.0081

Venus 10524-02-01 04:04 G 5564902.56 5564902.67 5564902.77 0.3685 0.1409

Saturn 10524-08-24 20:38 G 5565108.23 5565108.36 5565108.49 0.0284 0.0169

Saturn 10524-11-21 14:23 G 5565196.94 5565197.10 5565197.26 0.0284 0.0043

Saturn 10525-02-18 08:23 G 5565285.70 5565285.85 5565286.01 0.0284 0.0086

Saturn 10525-05-18 02:52 G 5565374.52 5565374.62 5565374.73 0.0284 0.0217

Mars 10525-05-23 21:36 G 5565380.24 5565380.40 5565380.55 0.1612 0.0382

Venus 10525-08-15 16:19 G 5565464.07 5565464.18 5565464.28 0.3685 0.2441

Moon 10525-08-16 07:26 G 5565464.67 5565464.81 5565464.96 0.2679 0.0078

Earth 10525-08-16 07:55 G 5565464.69 5565464.83 5565464.97 0.2673 0.0026 *

Mars 10526-04-04 21:50 G 5565696.31 5565696.41 5565696.52 0.1928 0.0893

Jupiter 10528-08-28 23:31 G 5566573.35 5566573.48 5566573.62 0.0543 0.0082

Venus 10529-08-16 21:21 G 5566926.32 5566926.39 5566926.47 0.3685 0.2645

Jupiter 10534-07-13 20:09 G 5568718.18 5568718.34 5568718.51 0.0485 0.0013

Mars 10534-10-14 01:40 G 5568810.41 5568810.57 5568810.72 0.1608 0.0327

Mars 10535-08-26 04:19 G 5569126.64 5569126.68 5569126.72 0.1932 0.1819

Earth 10536-02-16 21:36 G 5569301.29 5569301.40 5569301.52 0.2658 0.0843

Moon 10536-02-16 21:50 G 5569301.30 5569301.41 5569301.52 0.2665 0.0878 *

Mars 10537-08-01 01:11 G 5569832.51 5569832.55 5569832.59 0.1915 0.1788

Earth 10538-08-19 10:33 G 5570215.89 5570215.94 5570215.99 0.2671 0.2465

Moon 10538-08-19 11:02 G 5570215.90 5570215.96 5570216.01 0.2678 0.2433 *

Saturn 10539-06-28 19:11 G 5570529.22 5570529.30 5570529.38 0.0274 0.0231

Saturn 10539-09-25 08:52 G 5570617.74 5570617.87 5570618.00 0.0274 0.0126

Saturn 10539-12-22 22:33 G 5570706.29 5570706.44 5570706.58 0.0275 0.0022

Saturn 10540-03-20 11:45 G 5570794.85 5570794.99 5570795.13 0.0275 0.0081

Saturn 10540-06-17 00:43 G 5570883.43 5570883.53 5570883.64 0.0275 0.0182

Jupiter 10540-06-17 01:55 G 5570883.46 5570883.58 5570883.71 0.0543 0.0250 *

Jupiter 10540-09-14 15:50 G 5570973.09 5570973.16 5570973.24 0.0544 0.0445

Mars 10544-03-05 06:00 G 5572240.63 5572240.75 5572240.87 0.1606 0.1016

Uranus 10544-11-21 03:50 G 5572501.59 5572501.66 5572501.74 0.0145 0.0129

Uranus 10545-02-17 10:33 G 5572589.83 5572589.94 5572590.07 0.0145 0.0103

Uranus 10545-05-16 17:16 G 5572678.08 5572678.22 5572678.38 0.0145 0.0076

Uranus 10545-08-13 00:14 G 5572766.35 5572766.51 5572766.68 0.0145 0.0049

Uranus 10545-11-09 07:11 G 5572854.63 5572854.80 5572854.97 0.0144 0.0022

Uranus 10546-02-05 14:09 G 5572942.91 5572943.09 5572943.27 0.0144 0.0006

Jupiter 10546-05-01 21:07 G 5573028.22 5573028.38 5573028.53 0.0485 0.0143

Uranus 10546-05-04 21:07 G 5573031.21 5573031.38 5573031.55 0.0144 0.0033

Jupiter 10546-07-30 16:04 G 5573118.12 5573118.17 5573118.22 0.0484 0.0454

Uranus 10546-08-01 04:04 G 5573119.51 5573119.67 5573119.83 0.0144 0.0061

Uranus 10546-10-28 11:16 G 5573207.83 5573207.97 5573208.11 0.0144 0.0088

Mars 10546-12-22 08:23 G 5573262.75 5573262.85 5573262.95 0.1920 0.0953

Uranus 10547-01-24 18:14 G 5573296.16 5573296.26 5573296.37 0.0144 0.0116

Earth 10549-02-18 16:48 G 5574052.09 5574052.20 5574052.31 0.2660 0.0687

Moon 10549-02-18 17:16 G 5574052.11 5574052.22 5574052.33 0.2664 0.0844 *

Jupiter 10552-04-05 04:04 G 5575193.59 5575193.67 5575193.76 0.0543 0.0422

Jupiter 10552-07-03 18:28 G 5575283.16 5575283.27 5575283.39 0.0544 0.0282

Saturn 10554-01-11 19:26 G 5575840.21 5575840.31 5575840.42 0.0285 0.0215

Saturn 10554-04-10 13:11 G 5575928.90 5575929.05 5575929.20 0.0284 0.0090

Saturn 10554-07-08 07:11 G 5576017.64 5576017.80 5576017.96 0.0284 0.0038

Saturn 10554-10-05 01:26 G 5576106.43 5576106.56 5576106.69 0.0284 0.0168

Mars 10555-07-02 18:14 G 5576377.15 5576377.26 5576377.36 0.1615 0.1197

Mars 10556-05-13 15:21 G 5576693.02 5576693.14 5576693.26 0.1924 0.0119

Jupiter 10558-02-17 22:04 G 5577338.30 5577338.42 5577338.56 0.0485 0.0287

Jupiter 10558-05-18 16:48 G 5577428.07 5577428.20 5577428.33 0.0485 0.0305

Venus 10558-07-10 02:23 G 5577480.57 5577480.60 5577480.63 0.3683 0.3531

Moon 10558-08-14 10:33 G 5577515.84 5577515.94 5577516.03 0.2678 0.2015

Earth 10558-08-14 11:31 G 5577515.88 5577515.98 5577516.08 0.2674 0.1866 *

Earth 10562-02-21 11:31 G 5578802.92 5578802.98 5578803.05 0.2661 0.2182

Moon 10562-02-21 12:28 G 5578802.95 5578803.02 5578803.08 0.2660 0.2220 *

Venus 10564-01-23 20:38 G 5579504.27 5579504.36 5579504.45 0.3683 0.2135

Jupiter 10564-04-21 20:23 G 5579593.22 5579593.35 5579593.49 0.0543 0.0104

Mars 10564-11-21 22:04 G 5579807.27 5579807.42 5579807.57 0.1612 0.0474

Venus 10565-08-06 13:26 G 5580065.02 5580065.06 5580065.10 0.3687 0.3469

Mars 10565-10-03 22:04 G 5580123.31 5580123.42 5580123.53 0.1928 0.0808

Saturn 10568-11-14 20:52 G 5581261.33 5581261.37 5581261.42 0.0275 0.0261

Saturn 10569-02-11 10:48 G 5581349.83 5581349.95 5581350.08 0.0275 0.0154

Moon 10569-02-14 07:11 G 5581352.73 5581352.80 5581352.87 0.2663 0.2124

Earth 10569-02-14 07:26 G 5581352.74 5581352.81 5581352.89 0.2657 0.2063 *

Saturn 10569-05-11 00:28 G 5581438.38 5581438.52 5581438.67 0.0275 0.0049

Saturn 10569-08-07 13:55 G 5581526.94 5581527.08 5581527.22 0.0276 0.0055

Venus 10569-08-08 14:38 G 5581528.00 5581528.11 5581528.22 0.3684 0.0784

Saturn 10569-11-04 02:52 G 5581615.51 5581615.62 5581615.75 0.0276 0.0157

Jupiter 10569-12-06 23:02 G 5581648.40 5581648.46 5581648.54 0.0486 0.0432

Saturn 10570-01-31 16:04 G 5581704.12 5581704.17 5581704.22 0.0276 0.0257

Jupiter 10570-03-06 17:16 G 5581738.07 5581738.22 5581738.38 0.0485 0.0153

Venus 10571-02-20 13:55 G 5582088.95 5582089.08 5582089.20 0.3686 0.1392

Moon 10571-08-17 13:40 G 5582266.93 5582267.07 5582267.21 0.2680 0.0440

Earth 10571-08-17 13:55 G 5582266.94 5582267.08 5582267.22 0.2673 0.0504 *

Mars 10574-04-14 02:09 G 5583237.43 5583237.59 5583237.74 0.1609 0.0239

Venus 10575-02-22 08:23 G 5583551.74 5583551.85 5583551.96 0.3685 0.0527

Mars 10575-02-24 04:33 G 5583553.63 5583553.69 5583553.74 0.1932 0.1725

Jupiter 10576-02-08 22:19 G 5583903.29 5583903.43 5583903.56 0.0543 0.0078

Venus 10576-09-05 14:52 G 5584112.99 5584113.12 5584113.25 0.3686 0.0819

Mars 10577-01-30 01:11 G 5584259.53 5584259.55 5584259.57 0.1915 0.1871

Venus 10580-09-07 01:55 G 5585575.49 5585575.58 5585575.68 0.3685 0.1797

Jupiter 10581-12-23 18:00 G 5586048.09 5586048.25 5586048.42 0.0485 0.0014

Earth 10582-02-17 02:38 G 5586103.50 5586103.61 5586103.73 0.2659 0.0518

Moon 10582-02-17 02:52 G 5586103.51 5586103.62 5586103.74 0.2665 0.0471 *

Venus 10582-03-22 16:33 G 5586137.12 5586137.19 5586137.25 0.3685 0.3157

Saturn 10583-05-31 22:19 G 5586572.35 5586572.43 5586572.52 0.0284 0.0236

Saturn 10583-08-28 15:50 G 5586661.02 5586661.16 5586661.31 0.0284 0.0111

Mars 10583-09-04 06:28 G 5586667.65 5586667.77 5586667.90 0.1606 0.0918

Saturn 10583-11-25 09:50 G 5586749.75 5586749.91 5586750.07 0.0284 0.0016

Saturn 10584-02-22 04:04 G 5586838.53 5586838.67 5586838.81 0.0284 0.0146

Saturn 10584-05-20 22:48 G 5586927.42 5586927.45 5586927.48 0.0284 0.0278

Venus 10586-03-23 19:26 G 5587599.25 5587599.31 5587599.37 0.3686 0.3023

Mars 10586-06-22 08:38 G 5587689.76 5587689.86 5587689.96 0.1920 0.1046

Uranus 10587-09-01 18:43 G 5588126.26 5588126.28 5588126.33 0.0134 0.0129

Jupiter 10587-11-27 23:45 G 5588213.37 5588213.49 5588213.61 0.0543 0.0261

Uranus 10587-11-28 22:33 G 5588214.37 5588214.44 5588214.53 0.0134 0.0111

Uranus 10588-02-25 02:23 G 5588302.50 5588302.60 5588302.70 0.0134 0.0093

Jupiter 10588-02-25 13:40 G 5588302.99 5588303.07 5588303.15 0.0544 0.0435

Uranus 10588-05-23 06:00 G 5588390.63 5588390.75 5588390.87 0.0134 0.0075

Uranus 10588-08-19 09:21 G 5588478.77 5588478.89 5588479.03 0.0134 0.0058

Uranus 10588-11-15 13:11 G 5588566.91 5588567.05 5588567.19 0.0134 0.0040

Uranus 10589-02-11 16:48 G 5588655.06 5588655.20 5588655.34 0.0134 0.0022

Uranus 10589-05-10 20:23 G 5588743.21 5588743.35 5588743.49 0.0134 0.0005

Uranus 10589-08-06 23:45 G 5588831.35 5588831.49 5588831.64 0.0134 0.0013

Uranus 10589-11-03 03:21 G 5588919.50 5588919.64 5588919.78 0.0134 0.0030

Uranus 10590-01-30 06:57 G 5589007.66 5589007.79 5589007.92 0.0134 0.0047

Uranus 10590-04-28 10:19 G 5589095.81 5589095.93 5589096.06 0.0134 0.0065

Uranus 10590-07-25 13:55 G 5589183.97 5589184.08 5589184.19 0.0134 0.0082

Uranus 10590-10-21 17:16 G 5589272.13 5589272.22 5589272.31 0.0134 0.0099

Uranus 10591-01-17 20:38 G 5589360.30 5589360.36 5589360.43 0.0134 0.0116

Uranus 10591-04-16 00:00 G 5589448.49 5589448.50 5589448.53 0.0134 0.0133

Mars 10593-01-24 11:02 G 5590097.95 5590097.96 5590097.98 0.1603 0.1589

Jupiter 10593-10-11 19:11 G 5590358.15 5590358.30 5590358.46 0.0485 0.0139

Jupiter 10594-01-09 14:23 G 5590448.05 5590448.10 5590448.15 0.0484 0.0459

Mars 10594-12-31 18:43 G 5590804.19 5590804.28 5590804.37 0.1615 0.1296

Earth 10595-02-19 21:50 G 5590854.30 5590854.41 5590854.51 0.2660 0.1012

Moon 10595-02-19 22:19 G 5590854.33 5590854.43 5590854.54 0.2664 0.1044 *

Mars 10595-11-12 15:21 G 5591120.02 5591120.14 5591120.26 0.1924 0.0171

Saturn 10598-07-01 12:57 G 5592081.93 5592082.04 5592082.15 0.0274 0.0182

Saturn 10598-09-28 02:38 G 5592170.47 5592170.61 5592170.76 0.0274 0.0077

Saturn 10598-12-25 16:04 G 5592259.03 5592259.17 5592259.32 0.0275 0.0027

Saturn 10599-03-24 05:16 G 5592347.59 5592347.72 5592347.85 0.0275 0.0128

Saturn 10599-06-20 18:14 G 5592436.18 5592436.26 5592436.34 0.0275 0.0228

Jupiter 10599-09-16 01:55 G 5592523.50 5592523.58 5592523.66 0.0543 0.0433

Jupiter 10599-12-14 16:19 G 5592613.06 5592613.18 5592613.30 0.0544 0.0272

Neptune 10600-11-29 03:50 G 5592962.64 5592962.66 5592962.68 0.0089 0.0088

Neptune 10601-02-25 05:16 G 5593050.67 5593050.72 5593050.80 0.0089 0.0081

Neptune 10601-05-24 07:26 G 5593138.73 5593138.81 5593138.90 0.0089 0.0072

Neptune 10601-08-20 09:21 G 5593226.79 5593226.89 5593227.00 0.0089 0.0065

Neptune 10601-11-16 11:16 G 5593314.86 5593314.97 5593315.09 0.0089 0.0057

Neptune 10602-02-12 12:57 G 5593402.93 5593403.04 5593403.17 0.0089 0.0049

Neptune 10602-05-11 14:52 G 5593491.00 5593491.12 5593491.26 0.0089 0.0042

Neptune 10602-08-07 16:48 G 5593579.07 5593579.20 5593579.34 0.0089 0.0034

Neptune 10602-11-03 18:28 G 5593667.14 5593667.27 5593667.42 0.0089 0.0027

Neptune 10603-01-30 20:23 G 5593755.21 5593755.35 5593755.50 0.0089 0.0019

Neptune 10603-04-28 22:19 G 5593843.29 5593843.43 5593843.58 0.0089 0.0011

Neptune 10603-07-26 00:14 G 5593931.36 5593931.51 5593931.65 0.0089 0.0004

Neptune 10603-10-22 01:55 G 5594019.44 5594019.58 5594019.73 0.0089 0.0004

Neptune 10604-01-18 03:50 G 5594107.51 5594107.66 5594107.80 0.0089 0.0012

Neptune 10604-04-15 05:31 G 5594195.59 5594195.73 5594195.87 0.0089 0.0019

Mars 10604-05-23 22:33 G 5594234.29 5594234.44 5594234.58 0.1612 0.0563

Neptune 10604-07-12 07:11 G 5594283.67 5594283.80 5594283.94 0.0089 0.0027

Moon 10604-08-15 16:33 G 5594318.08 5594318.19 5594318.31 0.2679 0.1484

Earth 10604-08-15 17:31 G 5594318.11 5594318.23 5594318.35 0.2674 0.1394 *

Neptune 10604-10-08 08:52 G 5594371.74 5594371.87 5594372.01 0.0089 0.0034

Neptune 10605-01-04 10:48 G 5594459.82 5594459.95 5594460.08 0.0089 0.0041

Neptune 10605-04-02 12:28 G 5594547.90 5594548.02 5594548.14 0.0089 0.0049

Mars 10605-04-04 22:19 G 5594550.31 5594550.43 5594550.54 0.1929 0.0714

Neptune 10605-06-29 14:09 G 5594635.98 5594636.09 5594636.21 0.0089 0.0056

Jupiter 10605-07-31 20:09 G 5594668.22 5594668.34 5594668.48 0.0485 0.0285

Neptune 10605-09-25 15:50 G 5594724.07 5594724.16 5594724.27 0.0089 0.0064

Jupiter 10605-10-29 14:38 G 5594757.99 5594758.11 5594758.24 0.0484 0.0306

Neptune 10605-12-22 17:45 G 5594812.15 5594812.24 5594812.33 0.0089 0.0071

Neptune 10606-03-20 19:11 G 5594900.24 5594900.30 5594900.38 0.0089 0.0078

Neptune 10606-06-16 20:52 G 5594988.34 5594988.37 5594988.42 0.0089 0.0086

Earth 10608-02-23 16:33 G 5595605.15 5595605.19 5595605.23 0.2661 0.2490

Moon 10608-02-23 17:16 G 5595605.22 5595605.22 5595605.22 0.2659 0.2657 *

Jupiter 10611-10-03 18:57 G 5596923.15 5596923.29 5596923.42 0.0544 0.0107

Saturn 10612-10-18 21:07 G 5597304.37 5597304.38 5597304.41 0.0285 0.0282

Saturn 10613-01-15 14:38 G 5597392.98 5597393.11 5597393.25 0.0285 0.0158

Saturn 10613-04-14 08:23 G 5597481.69 5597481.85 5597482.01 0.0284 0.0033

Saturn 10613-07-12 02:38 G 5597570.45 5597570.61 5597570.76 0.0284 0.0096

Saturn 10613-10-08 21:07 G 5597659.28 5597659.38 5597659.48 0.0284 0.0227

Mars 10613-10-14 02:38 G 5597664.45 5597664.61 5597664.76 0.1609 0.0147

Mars 10614-08-26 04:33 G 5597980.63 5597980.69 5597980.76 0.1932 0.1633

Venus 10615-02-15 00:28 G 5598153.46 5598153.52 5598153.58 0.3683 0.3092

Moon 10615-02-16 12:14 G 5598154.93 5598155.01 5598155.09 0.2663 0.1809

Earth 10615-02-16 12:43 G 5598154.94 5598155.03 5598155.11 0.2657 0.1732 *

Jupiter 10617-05-19 21:36 G 5598978.33 5598978.40 5598978.48 0.0485 0.0426

Jupiter 10617-08-17 15:36 G 5599068.00 5599068.15 5599068.31 0.0485 0.0157

Moon 10617-08-18 19:40 G 5599069.19 5599069.32 5599069.45 0.2680 0.0983

Earth 10617-08-18 19:55 G 5599069.19 5599069.33 5599069.46 0.2672 0.0982 *

Venus 10620-08-30 18:43 G 5600177.18 5600177.28 5600177.38 0.3684 0.1708

Venus 10622-03-14 13:11 G 5600737.97 5600738.05 5600738.13 0.3687 0.2844

Mars 10623-03-06 06:57 G 5601094.66 5601094.79 5601094.93 0.1606 0.0831

Jupiter 10623-07-22 20:52 G 5601233.23 5601233.37 5601233.51 0.0543 0.0070

Mars 10625-12-22 08:38 G 5602116.76 5602116.86 5602116.95 0.1920 0.1125

Venus 10626-03-16 12:43 G 5602200.92 5602201.03 5602201.14 0.3684 0.0372

Venus 10627-09-28 13:40 G 5602761.94 5602762.07 5602762.21 0.3686 0.0744

Saturn 10627-11-19 14:23 G 5602814.01 5602814.10 5602814.20 0.0275 0.0214

Saturn 10628-02-16 04:19 G 5602902.54 5602902.68 5602902.81 0.0275 0.0108

Earth 10628-02-19 07:40 G 5602905.71 5602905.82 5602905.94 0.2659 0.0198

Moon 10628-02-19 08:09 G 5602905.72 5602905.84 5602905.95 0.2665 0.0135 *

Pluto 10628-03-06 18:57 G 5602922.25 5602922.29 5602922.36 0.0071 0.0064

Saturn 10628-05-14 17:45 G 5602991.10 5602991.24 5602991.39 0.0275 0.0005

Pluto 10628-06-02 19:40 G 5603010.25 5603010.32 5603010.42 0.0071 0.0055

Saturn 10628-08-11 06:57 G 5603079.66 5603079.79 5603079.93 0.0276 0.0100

Pluto 10628-08-29 20:23 G 5603098.26 5603098.35 5603098.46 0.0071 0.0046

Saturn 10628-11-07 20:09 G 5603168.24 5603168.34 5603168.44 0.0276 0.0200

Pluto 10628-11-25 21:07 G 5603186.28 5603186.38 5603186.51 0.0071 0.0037

Uranus 10628-12-12 11:31 G 5603202.90 5603202.98 5603203.08 0.0145 0.0121

Pluto 10629-02-21 22:04 G 5603274.30 5603274.42 5603274.55 0.0071 0.0028

Uranus 10629-03-10 18:14 G 5603291.14 5603291.26 5603291.40 0.0145 0.0095

Pluto 10629-05-20 22:48 G 5603362.32 5603362.45 5603362.59 0.0071 0.0019

Jupiter 10629-06-05 16:19 G 5603378.01 5603378.18 5603378.34 0.0485 0.0007

Uranus 10629-06-07 01:11 G 5603379.40 5603379.55 5603379.71 0.0145 0.0068

Pluto 10629-08-16 23:31 G 5603450.35 5603450.48 5603450.62 0.0072 0.0010

Uranus 10629-09-03 07:55 G 5603467.67 5603467.83 5603468.00 0.0145 0.0041

Pluto 10629-11-13 00:28 G 5603538.38 5603538.52 5603538.65 0.0072 0.0001

Uranus 10629-11-30 14:52 G 5603555.95 5603556.12 5603556.30 0.0145 0.0014

Pluto 10630-02-09 01:11 G 5603626.41 5603626.55 5603626.68 0.0072 0.0010

Uranus 10630-02-26 21:50 G 5603644.24 5603644.41 5603644.59 0.0144 0.0014

Pluto 10630-05-08 01:55 G 5603714.45 5603714.58 5603714.71 0.0072 0.0019

Uranus 10630-05-26 04:48 G 5603732.54 5603732.70 5603732.87 0.0144 0.0042

Pluto 10630-08-04 02:23 G 5603802.49 5603802.60 5603802.74 0.0072 0.0029

Uranus 10630-08-22 11:45 G 5603820.84 5603820.99 5603821.15 0.0144 0.0069

Pluto 10630-10-31 03:21 G 5603890.53 5603890.64 5603890.76 0.0072 0.0038

Uranus 10630-11-18 18:43 G 5603909.16 5603909.28 5603909.42 0.0144 0.0097

Pluto 10631-01-27 04:04 G 5603978.58 5603978.67 5603978.78 0.0072 0.0048

Uranus 10631-02-15 01:55 G 5603997.50 5603997.58 5603997.68 0.0144 0.0125

Pluto 10631-04-25 05:02 G 5604066.63 5604066.71 5604066.79 0.0072 0.0058

Pluto 10631-07-22 05:45 G 5604154.70 5604154.74 5604154.79 0.0073 0.0068

Venus 10631-09-30 06:28 G 5604224.66 5604224.77 5604224.88 0.3685 0.0927

Mars 10632-07-26 11:45 G 5604524.94 5604524.99 5604525.04 0.1603 0.1497

Venus 10633-04-13 14:52 G 5604786.00 5604786.12 5604786.25 0.3686 0.1510

Mars 10634-07-02 19:11 G 5605231.23 5605231.30 5605231.38 0.1615 0.1393

Jupiter 10635-05-10 22:33 G 5605543.32 5605543.44 5605543.56 0.0543 0.0251

Mars 10635-05-14 15:36 G 5605547.03 5605547.15 5605547.27 0.1924 0.0268

Jupiter 10635-08-08 12:28 G 5605632.94 5605633.02 5605633.10 0.0543 0.0442

Venus 10637-04-15 00:00 G 5606248.41 5606248.50 5606248.59 0.3685 0.2181

Earth 10641-02-21 02:38 G 5607656.51 5607656.61 5607656.71 0.2660 0.1329

Moon 10641-02-21 03:21 G 5607656.55 5607656.64 5607656.74 0.2663 0.1463 *

Jupiter 10641-03-24 17:16 G 5607688.07 5607688.22 5607688.38 0.0485 0.0138

Jupiter 10641-06-22 12:14 G 5607777.96 5607778.01 5607778.06 0.0484 0.0459

Saturn 10642-06-04 17:02 G 5608125.09 5608125.21 5608125.34 0.0284 0.0183

Saturn 10642-09-01 10:48 G 5608213.79 5608213.95 5608214.11 0.0284 0.0057

Venus 10642-10-29 17:16 G 5608272.18 5608272.22 5608272.26 0.3686 0.3391

Saturn 10642-11-29 04:48 G 5608302.54 5608302.70 5608302.86 0.0284 0.0072

Saturn 10643-02-25 23:16 G 5608391.36 5608391.47 5608391.59 0.0284 0.0202

Mars 10643-11-22 23:02 G 5608661.32 5608661.46 5608661.61 0.1612 0.0661

Mars 10644-10-03 22:19 G 5608977.31 5608977.43 5608977.54 0.1928 0.0630

Jupiter 10647-02-26 23:45 G 5609853.41 5609853.49 5609853.57 0.0543 0.0441

Jupiter 10647-05-27 14:09 G 5609942.97 5609943.09 5609943.21 0.0544 0.0264

Moon 10650-08-16 22:48 G 5611120.32 5611120.45 5611120.58 0.2680 0.1086

Earth 10650-08-16 23:31 G 5611120.34 5611120.48 5611120.61 0.2674 0.0929 *

Jupiter 10653-01-10 18:43 G 5611998.15 5611998.28 5611998.42 0.0485 0.0278

Jupiter 10653-04-10 13:11 G 5612087.93 5612088.05 5612088.18 0.0484 0.0312

Mars 10653-04-14 03:07 G 5612091.47 5612091.63 5612091.79 0.1609 0.0054

Mars 10654-02-24 04:33 G 5612407.62 5612407.69 5612407.76 0.1932 0.1553

Saturn 10657-04-07 16:33 G 5613546.13 5613546.19 5613546.27 0.0274 0.0240

Saturn 10657-07-05 06:28 G 5613634.65 5613634.77 5613634.90 0.0274 0.0134

Saturn 10657-10-01 20:09 G 5613723.19 5613723.34 5613723.49 0.0274 0.0030

Saturn 10657-12-29 09:21 G 5613811.75 5613811.89 5613812.04 0.0275 0.0073

Saturn 10658-03-27 22:19 G 5613900.33 5613900.43 5613900.55 0.0275 0.0174

Saturn 10658-06-24 11:16 G 5613988.96 5613988.97 5613988.99 0.0275 0.0272

Jupiter 10659-03-15 16:48 G 5614253.06 5614253.20 5614253.33 0.0544 0.0098

Moon 10661-02-16 17:31 G 5614957.13 5614957.23 5614957.33 0.2664 0.1397

Earth 10661-02-16 17:45 G 5614957.14 5614957.24 5614957.33 0.2657 0.1408 *

Mars 10662-09-04 07:26 G 5615521.67 5615521.81 5615521.95 0.1606 0.0746

Moon 10663-08-20 01:55 G 5615871.46 5615871.58 5615871.69 0.2679 0.1476

Earth 10663-08-20 01:55 G 5615871.46 5615871.58 5615871.70 0.2672 0.1468 *

Jupiter 10664-10-29 19:55 G 5616308.25 5616308.33 5616308.41 0.0485 0.0422

Jupiter 10665-01-27 13:55 G 5616397.92 5616398.08 5616398.23 0.0484 0.0160

Mars 10665-06-22 08:38 G 5616543.77 5616543.86 5616543.95 0.1920 0.1215

Jupiter 10671-01-01 19:26 G 5618563.17 5618563.31 5618563.44 0.0544 0.0069

Venus 10671-09-21 22:48 G 5618826.37 5618826.45 5618826.53 0.3683 0.2656

Uranus 10671-09-23 02:38 G 5618827.56 5618827.61 5618827.67 0.0134 0.0122

Saturn 10671-10-22 15:50 G 5618857.07 5618857.16 5618857.25 0.0285 0.0230

Uranus 10671-12-20 06:14 G 5618915.68 5618915.76 5618915.86 0.0134 0.0104

Saturn 10672-01-19 09:21 G 5618945.74 5618945.89 5618946.04 0.0285 0.0106

Mars 10672-01-25 12:14 G 5618951.94 5618952.01 5618952.08 0.1603 0.1412

Uranus 10672-03-17 09:50 G 5619003.81 5619003.91 5619004.03 0.0134 0.0087

Saturn 10672-04-17 03:07 G 5619034.47 5619034.63 5619034.80 0.0284 0.0023

Uranus 10672-06-13 13:40 G 5619091.95 5619092.07 5619092.19 0.0134 0.0068

Saturn 10672-07-14 21:21 G 5619123.26 5619123.39 5619123.54 0.0284 0.0151

Uranus 10672-09-09 17:16 G 5619180.09 5619180.22 5619180.35 0.0134 0.0051

Saturn 10672-10-11 16:04 G 5619212.16 5619212.17 5619212.18 0.0284 0.0283

Uranus 10672-12-06 20:52 G 5619268.23 5619268.37 5619268.51 0.0134 0.0033

Uranus 10673-03-05 00:28 G 5619356.38 5619356.52 5619356.66 0.0134 0.0016

Uranus 10673-06-01 04:04 G 5619444.53 5619444.67 5619444.81 0.0134 0.0003

Uranus 10673-08-28 07:26 G 5619532.68 5619532.81 5619532.95 0.0134 0.0020

Uranus 10673-11-24 11:02 G 5619620.83 5619620.96 5619621.10 0.0134 0.0036

Mars 10673-12-31 19:40 G 5619658.26 5619658.32 5619658.38 0.1615 0.1482

Earth 10674-02-19 12:43 G 5619707.92 5619708.03 5619708.15 0.2659 0.0143

Moon 10674-02-19 13:11 G 5619707.93 5619708.05 5619708.17 0.2665 0.0179 *

Uranus 10674-02-20 14:23 G 5619708.98 5619709.10 5619709.23 0.0134 0.0054

Uranus 10674-05-19 17:45 G 5619797.13 5619797.24 5619797.37 0.0134 0.0072

Uranus 10674-08-15 21:21 G 5619885.29 5619885.39 5619885.50 0.0134 0.0088

Uranus 10674-11-12 00:43 G 5619973.45 5619973.53 5619973.62 0.0134 0.0105

Mars 10674-11-12 15:50 G 5619974.04 5619974.16 5619974.27 0.1924 0.0361

Uranus 10675-02-08 04:19 G 5620061.62 5620061.68 5620061.74 0.0134 0.0122

Jupiter 10676-11-15 14:52 G 5620707.96 5620708.12 5620708.28 0.0485 0.0014

Venus 10677-04-06 16:48 G 5620850.10 5620850.20 5620850.31 0.3684 0.1292

Venus 10678-10-19 12:57 G 5621410.94 5621411.04 5621411.15 0.3687 0.2221

Jupiter 10682-10-20 21:21 G 5622873.26 5622873.39 5622873.51 0.0543 0.0243

Venus 10682-10-21 10:48 G 5622873.84 5622873.95 5622874.06 0.3685 0.0087

Jupiter 10683-01-18 11:16 G 5622962.89 5622962.97 5622963.04 0.0543 0.0451

Neptune 10683-02-17 15:50 G 5622993.13 5622993.16 5622993.22 0.0088 0.0084

Neptune 10683-05-16 18:14 G 5623081.19 5623081.26 5623081.36 0.0088 0.0076

Mars 10683-05-23 23:31 G 5623088.35 5623088.48 5623088.62 0.1612 0.0757

Neptune 10683-08-12 20:38 G 5623169.27 5623169.36 5623169.48 0.0088 0.0068

Neptune 10683-11-08 23:02 G 5623257.35 5623257.46 5623257.60 0.0088 0.0060

Neptune 10684-02-05 01:40 G 5623345.44 5623345.57 5623345.72 0.0088 0.0052

Mars 10684-04-03 22:19 G 5623404.32 5623404.43 5623404.55 0.1928 0.0543

Neptune 10684-05-03 04:04 G 5623433.54 5623433.67 5623433.83 0.0088 0.0044

Venus 10684-05-04 13:40 G 5623434.94 5623435.07 5623435.21 0.3686 0.0084

Neptune 10684-07-30 06:43 G 5623521.63 5623521.78 5623521.94 0.0088 0.0035

Neptune 10684-10-26 09:21 G 5623609.73 5623609.89 5623610.05 0.0088 0.0027

Neptune 10685-01-22 11:45 G 5623697.83 5623697.99 5623698.16 0.0088 0.0019

Neptune 10685-04-20 14:23 G 5623785.93 5623786.10 5623786.27 0.0088 0.0011

Neptune 10685-07-17 16:48 G 5623874.03 5623874.20 5623874.38 0.0088 0.0003

Neptune 10685-10-13 19:26 G 5623962.14 5623962.31 5623962.48 0.0088 0.0006

Neptune 10686-01-09 22:04 G 5624050.25 5624050.42 5624050.59 0.0088 0.0014

Neptune 10686-04-08 00:28 G 5624138.36 5624138.52 5624138.69 0.0088 0.0023

Neptune 10686-07-05 03:07 G 5624226.47 5624226.63 5624226.79 0.0088 0.0031

Neptune 10686-10-01 05:31 G 5624314.59 5624314.73 5624314.89 0.0088 0.0040

Saturn 10686-11-22 07:40 G 5624366.70 5624366.82 5624366.94 0.0275 0.0169

Neptune 10686-12-28 08:09 G 5624402.71 5624402.84 5624402.99 0.0088 0.0048

Saturn 10687-02-18 21:21 G 5624455.25 5624455.39 5624455.53 0.0275 0.0064

Earth 10687-02-22 07:40 G 5624458.73 5624458.82 5624458.91 0.2660 0.1644

Moon 10687-02-22 08:23 G 5624458.77 5624458.85 5624458.94 0.2661 0.1743 *

Neptune 10687-03-26 10:33 G 5624490.83 5624490.94 5624491.09 0.0088 0.0057

Saturn 10687-05-18 10:48 G 5624543.80 5624543.95 5624544.09 0.0275 0.0040

Neptune 10687-06-22 13:26 G 5624578.95 5624579.06 5624579.18 0.0088 0.0065

Saturn 10687-08-15 00:00 G 5624632.38 5624632.50 5624632.62 0.0275 0.0142

Neptune 10687-09-18 15:50 G 5624667.09 5624667.16 5624667.27 0.0088 0.0074

Saturn 10687-11-11 12:43 G 5624720.97 5624721.03 5624721.11 0.0276 0.0242

Neptune 10687-12-15 18:43 G 5624755.23 5624755.28 5624755.35 0.0088 0.0082

Venus 10688-05-06 04:33 G 5624897.58 5624897.69 5624897.79 0.3685 0.1328

Jupiter 10688-09-03 15:36 G 5625018.00 5625018.15 5625018.31 0.0485 0.0135

Jupiter 10688-12-02 10:33 G 5625107.90 5625107.94 5625107.99 0.0485 0.0464

Venus 10689-11-18 15:07 G 5625459.02 5625459.13 5625459.24 0.3685 0.2205

Mars 10692-10-13 03:36 G 5626518.50 5626518.65 5626518.81 0.1609 0.0047

Mars 10693-08-25 04:48 G 5626834.63 5626834.70 5626834.78 0.1932 0.1455

Venus 10693-11-19 21:50 G 5626921.33 5626921.41 5626921.49 0.3686 0.2554

Earth 10694-02-15 03:21 G 5627008.63 5627008.64 5627008.65 0.2656 0.2641

Jupiter 10694-08-08 22:48 G 5627183.37 5627183.45 5627183.54 0.0542 0.0426

Jupiter 10694-11-06 13:11 G 5627272.94 5627273.05 5627273.17 0.0543 0.0278

Moon 10696-08-17 04:48 G 5627922.56 5627922.70 5627922.84 0.2680 0.0465

Earth 10696-08-17 05:16 G 5627922.58 5627922.72 5627922.86 0.2674 0.0468 *

Jupiter 10700-06-23 16:48 G 5629328.07 5629328.20 5629328.34 0.0485 0.0277

Jupiter 10700-09-21 11:16 G 5629417.85 5629417.97 5629418.10 0.0485 0.0314

Saturn 10701-03-11 17:45 G 5629589.18 5629589.24 5629589.31 0.0285 0.0257

Saturn 10701-06-08 11:16 G 5629677.83 5629677.97 5629678.11 0.0284 0.0133

Saturn 10701-09-05 05:02 G 5629766.55 5629766.71 5629766.87 0.0284 0.0007

Saturn 10701-12-02 23:16 G 5629855.32 5629855.47 5629855.62 0.0284 0.0123

Saturn 10702-03-01 18:00 G 5629944.17 5629944.25 5629944.32 0.0284 0.0254

Mars 10702-03-06 07:55 G 5629948.69 5629948.83 5629948.98 0.1606 0.0652

Mars 10704-12-22 08:52 G 5630970.78 5630970.87 5630970.95 0.1920 0.1299

Jupiter 10706-08-26 14:52 G 5631582.98 5631583.12 5631583.25 0.0544 0.0094

Moon 10707-02-18 22:33 G 5631759.34 5631759.44 5631759.55 0.2664 0.1144

Earth 10707-02-18 22:33 G 5631759.34 5631759.44 5631759.55 0.2658 0.1081 *

Earth 10709-08-21 07:55 G 5632673.73 5632673.83 5632673.92 0.2672 0.1949

Moon 10709-08-21 08:09 G 5632673.74 5632673.84 5632673.93 0.2678 0.1955 *

Mars 10711-07-27 12:43 G 5633378.94 5633379.03 5633379.11 0.1603 0.1325

Jupiter 10712-04-11 18:28 G 5633638.19 5633638.27 5633638.36 0.0485 0.0414

Jupiter 10712-07-10 12:28 G 5633727.87 5633728.02 5633728.18 0.0485 0.0170

Uranus 10712-10-06 12:57 G 5633816.00 5633816.04 5633816.09 0.0145 0.0138

Uranus 10713-01-02 19:26 G 5633904.22 5633904.31 5633904.43 0.0145 0.0112

Uranus 10713-04-01 02:23 G 5633992.47 5633992.60 5633992.74 0.0145 0.0085

Uranus 10713-06-28 09:07 G 5634080.73 5634080.88 5634081.05 0.0145 0.0058

Mars 10713-07-02 20:23 G 5634085.33 5634085.35 5634085.38 0.1615 0.1586

Uranus 10713-09-24 16:04 G 5634169.00 5634169.17 5634169.34 0.0145 0.0031

Pluto 10713-10-28 06:28 G 5634202.68 5634202.77 5634202.90 0.0073 0.0060

Uranus 10713-12-21 23:02 G 5634257.28 5634257.46 5634257.63 0.0145 0.0004

Pluto 10714-01-24 08:52 G 5634290.74 5634290.87 5634291.03 0.0073 0.0046

Uranus 10714-03-20 06:00 G 5634345.57 5634345.75 5634345.92 0.0144 0.0023

Pluto 10714-04-22 11:31 G 5634378.81 5634378.98 5634379.15 0.0073 0.0032

Mars 10714-05-14 15:50 G 5634401.04 5634401.16 5634401.27 0.1924 0.0439

Uranus 10714-06-16 12:43 G 5634433.87 5634434.03 5634434.21 0.0144 0.0052

Pluto 10714-07-19 13:26 G 5634466.89 5634467.06 5634467.25 0.0073 0.0019

Uranus 10714-09-12 19:55 G 5634522.19 5634522.33 5634522.48 0.0144 0.0079

Pluto 10714-10-15 15:50 G 5634554.97 5634555.16 5634555.35 0.0073 0.0005

Uranus 10714-12-10 02:52 G 5634610.51 5634610.62 5634610.75 0.0144 0.0107

Pluto 10715-01-11 18:00 G 5634643.06 5634643.25 5634643.44 0.0072 0.0008

Uranus 10715-03-08 10:04 G 5634698.86 5634698.92 5634698.99 0.0144 0.0134

Pluto 10715-04-09 20:09 G 5634731.16 5634731.34 5634731.52 0.0072 0.0022

Pluto 10715-07-06 21:50 G 5634819.27 5634819.41 5634819.59 0.0072 0.0036

Pluto 10715-10-03 00:00 G 5634907.38 5634907.50 5634907.66 0.0072 0.0048

Pluto 10715-12-30 02:09 G 5634995.51 5634995.59 5634995.71 0.0072 0.0061

Saturn 10716-04-11 10:04 G 5635098.82 5635098.92 5635099.03 0.0274 0.0194

Saturn 10716-07-08 23:45 G 5635187.35 5635187.49 5635187.63 0.0274 0.0089

Saturn 10716-10-05 13:11 G 5635275.91 5635276.05 5635276.20 0.0274 0.0016

Saturn 10717-01-02 02:23 G 5635364.47 5635364.60 5635364.73 0.0275 0.0116

Saturn 10717-03-31 15:21 G 5635453.06 5635453.14 5635453.23 0.0275 0.0216

Jupiter 10718-06-14 17:16 G 5635893.08 5635893.22 5635893.35 0.0544 0.0077

Earth 10720-02-21 17:45 G 5636510.13 5636510.24 5636510.36 0.2659 0.0454

Moon 10720-02-21 18:14 G 5636510.15 5636510.26 5636510.37 0.2664 0.0550 *

Venus 10722-10-14 02:38 G 5637475.59 5637475.61 5637475.63 0.3683 0.3629

Mars 10722-11-23 00:00 G 5637515.37 5637515.50 5637515.64 0.1612 0.0845

Mars 10723-10-04 22:33 G 5637831.32 5637831.44 5637831.56 0.1929 0.0448

Jupiter 10724-04-28 13:26 G 5638037.89 5638038.06 5638038.22 0.0485 0.0024

Venus 10728-04-28 20:52 G 5639499.28 5639499.37 5639499.46 0.3684 0.2229

Moon 10729-08-16 08:09 G 5639973.78 5639973.84 5639973.90 0.2679 0.2381

Earth 10729-08-16 09:21 G 5639973.82 5639973.89 5639973.96 0.2675 0.2320 *

Venus 10729-11-10 12:43 G 5640060.01 5640060.03 5640060.05 0.3687 0.3635

Jupiter 10730-04-02 19:40 G 5640203.20 5640203.32 5640203.45 0.0543 0.0242

Jupiter 10730-07-01 09:36 G 5640292.83 5640292.90 5640292.98 0.0544 0.0455

Saturn 10730-10-26 09:36 G 5640409.79 5640409.90 5640410.03 0.0285 0.0182

Saturn 10731-01-23 03:21 G 5640498.49 5640498.64 5640498.80 0.0285 0.0057

Saturn 10731-04-21 21:21 G 5640587.24 5640587.39 5640587.55 0.0284 0.0072

Saturn 10731-07-19 15:50 G 5640676.05 5640676.16 5640676.28 0.0284 0.0202

Mars 10732-04-14 04:04 G 5640945.51 5640945.67 5640945.83 0.1609 0.0129

Earth 10733-02-23 12:43 G 5641260.95 5641261.03 5641261.11 0.2660 0.1958

Moon 10733-02-23 13:40 G 5641260.99 5641261.07 5641261.14 0.2660 0.2064 *

Mars 10733-02-24 05:02 G 5641261.63 5641261.71 5641261.79 0.1932 0.1366

Venus 10733-11-12 14:52 G 5641523.01 5641523.12 5641523.23 0.3684 0.0885

Venus 10735-05-27 12:57 G 5642083.92 5642084.04 5642084.16 0.3686 0.1597

Jupiter 10736-02-15 14:23 G 5642347.95 5642348.10 5642348.26 0.0485 0.0124

Jupiter 10736-05-15 09:21 G 5642437.86 5642437.89 5642437.92 0.0484 0.0472

Venus 10739-05-29 08:52 G 5643546.76 5643546.87 5643546.98 0.3685 0.0447

Moon 10740-02-17 07:55 G 5643810.79 5643810.83 5643810.87 0.2661 0.2461

Earth 10740-02-17 08:23 G 5643810.80 5643810.85 5643810.91 0.2656 0.2311 *

Venus 10740-12-10 13:40 G 5644107.94 5644108.07 5644108.21 0.3686 0.0605

Mars 10741-09-04 08:23 G 5644375.71 5644375.85 5644376.00 0.1606 0.0562

Jupiter 10742-01-19 21:36 G 5644513.32 5644513.40 5644513.49 0.0543 0.0416

Jupiter 10742-04-19 12:00 G 5644602.89 5644603.00 5644603.12 0.0543 0.0288

Moon 10742-08-19 10:48 G 5644724.81 5644724.95 5644725.09 0.2680 0.0148

Earth 10742-08-19 11:16 G 5644724.83 5644724.97 5644725.12 0.2674 0.0044 *

Mars 10744-06-22 08:52 G 5645397.79 5645397.87 5645397.95 0.1919 0.1386

Venus 10744-12-12 02:23 G 5645570.50 5645570.60 5645570.70 0.3685 0.1702

Saturn 10745-08-29 10:48 G 5645830.87 5645830.95 5645831.03 0.0274 0.0232

Saturn 10745-11-26 00:28 G 5645919.39 5645919.52 5645919.66 0.0275 0.0126

Saturn 10746-02-22 14:09 G 5646007.94 5646008.09 5646008.24 0.0275 0.0022

Saturn 10746-05-22 03:21 G 5646096.51 5646096.64 5646096.78 0.0275 0.0081

Venus 10746-06-26 15:07 G 5646132.05 5646132.13 5646132.22 0.3685 0.2899

Saturn 10746-08-18 16:33 G 5646185.08 5646185.19 5646185.30 0.0275 0.0181

Jupiter 10747-12-04 15:21 G 5646658.01 5646658.14 5646658.28 0.0485 0.0271

Jupiter 10748-03-03 09:50 G 5646747.79 5646747.91 5646748.03 0.0485 0.0320

Venus 10750-06-27 19:55 G 5647594.26 5647594.33 5647594.39 0.3686 0.2934

Mars 10751-01-25 13:11 G 5647805.95 5647806.05 5647806.15 0.1603 0.1234

Earth 10753-02-19 03:36 G 5648561.54 5648561.65 5648561.77 0.2658 0.0756

Moon 10753-02-19 03:50 G 5648561.55 5648561.66 5648561.77 0.2665 0.0672 *

Mars 10753-11-12 15:50 G 5648828.05 5648828.16 5648828.28 0.1924 0.0530

Jupiter 10754-02-05 14:09 G 5648912.95 5648913.09 5648913.22 0.0543 0.0112

Uranus 10755-07-18 06:28 G 5649440.77 5649440.77 5649440.78 0.0133 0.0133

Earth 10755-08-22 13:55 G 5649476.02 5649476.08 5649476.13 0.2672 0.2433

Moon 10755-08-22 14:23 G 5649476.07 5649476.10 5649476.13 0.2678 0.2588 *

Uranus 10755-10-14 10:04 G 5649528.86 5649528.92 5649529.00 0.0133 0.0116

Uranus 10756-01-10 13:55 G 5649616.99 5649617.08 5649617.18 0.0134 0.0098

Uranus 10756-04-07 17:31 G 5649705.12 5649705.23 5649705.35 0.0134 0.0080

Uranus 10756-07-04 21:07 G 5649793.26 5649793.38 5649793.51 0.0134 0.0063

Uranus 10756-10-01 00:43 G 5649881.40 5649881.53 5649881.67 0.0134 0.0045

Uranus 10756-12-28 04:33 G 5649969.55 5649969.69 5649969.83 0.0134 0.0027

Uranus 10757-03-26 07:55 G 5650057.69 5650057.83 5650057.98 0.0134 0.0011

Uranus 10757-06-22 11:31 G 5650145.84 5650145.98 5650146.12 0.0134 0.0008

Uranus 10757-09-18 15:07 G 5650233.99 5650234.13 5650234.27 0.0134 0.0025

Uranus 10757-12-15 18:43 G 5650322.14 5650322.28 5650322.41 0.0134 0.0043

Uranus 10758-03-13 22:04 G 5650410.30 5650410.42 5650410.55 0.0134 0.0060

Uranus 10758-06-10 01:26 G 5650498.45 5650498.56 5650498.68 0.0134 0.0077

Uranus 10758-09-06 05:02 G 5650586.61 5650586.71 5650586.81 0.0134 0.0094

Uranus 10758-12-03 08:23 G 5650674.78 5650674.85 5650674.93 0.0134 0.0111

Uranus 10759-03-01 11:45 G 5650762.95 5650762.99 5650763.03 0.0134 0.0128

Jupiter 10759-09-22 16:48 G 5650968.12 5650968.20 5650968.29 0.0485 0.0409

Jupiter 10759-12-21 10:48 G 5651057.80 5651057.95 5651058.11 0.0485 0.0174

Saturn 10760-03-14 11:02 G 5651141.86 5651141.96 5651142.07 0.0285 0.0213

Saturn 10760-06-11 04:33 G 5651230.54 5651230.69 5651230.85 0.0284 0.0089

Saturn 10760-09-07 22:33 G 5651319.28 5651319.44 5651319.61 0.0284 0.0041

Saturn 10760-12-05 16:48 G 5651408.08 5651408.20 5651408.34 0.0284 0.0170

Mars 10762-05-24 00:43 G 5651942.40 5651942.53 5651942.66 0.1612 0.0945

Mars 10763-04-04 22:48 G 5652258.33 5652258.45 5652258.56 0.1928 0.0369

Neptune 10765-08-27 02:09 G 5653133.57 5653133.59 5653133.64 0.0089 0.0087

Neptune 10765-11-23 04:04 G 5653221.62 5653221.67 5653221.75 0.0089 0.0080

Jupiter 10765-11-24 15:21 G 5653223.00 5653223.14 5653223.28 0.0543 0.0077

Neptune 10766-02-19 06:00 G 5653309.68 5653309.75 5653309.85 0.0089 0.0072

Earth 10766-02-21 22:48 G 5653312.34 5653312.45 5653312.56 0.2659 0.0778

Moon 10766-02-21 23:16 G 5653312.36 5653312.47 5653312.58 0.2663 0.0815 *

Neptune 10766-05-18 08:09 G 5653397.74 5653397.84 5653397.95 0.0089 0.0064

Neptune 10766-08-14 10:04 G 5653485.81 5653485.92 5653486.04 0.0089 0.0056

Neptune 10766-11-10 11:45 G 5653573.87 5653573.99 5653574.12 0.0089 0.0048

Neptune 10767-02-06 13:40 G 5653661.94 5653662.07 5653662.21 0.0089 0.0041

Neptune 10767-05-05 15:36 G 5653750.02 5653750.15 5653750.29 0.0089 0.0033

Neptune 10767-08-01 17:31 G 5653838.09 5653838.23 5653838.37 0.0089 0.0025

Neptune 10767-10-28 19:26 G 5653926.16 5653926.31 5653926.45 0.0089 0.0017

Neptune 10768-01-24 21:07 G 5654014.24 5654014.38 5654014.53 0.0089 0.0010

Neptune 10768-04-21 23:02 G 5654102.31 5654102.46 5654102.61 0.0089 0.0002

Neptune 10768-07-19 00:43 G 5654190.39 5654190.53 5654190.68 0.0089 0.0006

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Neptune 10769-01-11 04:19 G 5654366.54 5654366.68 5654366.83 0.0089 0.0020

Neptune 10769-04-09 06:14 G 5654454.62 5654454.76 5654454.90 0.0089 0.0028

Neptune 10769-07-06 07:40 G 5654542.70 5654542.82 5654542.96 0.0089 0.0036

Neptune 10769-10-02 09:36 G 5654630.78 5654630.90 5654631.03 0.0089 0.0043

Neptune 10769-12-29 11:16 G 5654718.86 5654718.97 5654719.10 0.0089 0.0050

Neptune 10770-03-27 12:57 G 5654806.94 5654807.04 5654807.16 0.0089 0.0058

Neptune 10770-06-23 14:52 G 5654895.02 5654895.12 5654895.22 0.0089 0.0065

Neptune 10770-09-19 16:19 G 5654983.11 5654983.18 5654983.28 0.0089 0.0073

Neptune 10770-12-16 18:00 G 5655071.20 5655071.25 5655071.33 0.0089 0.0080

Neptune 10771-03-14 19:55 G 5655159.30 5655159.33 5655159.37 0.0089 0.0087

Jupiter 10771-10-09 12:14 G 5655367.84 5655368.01 5655368.17 0.0485 0.0034

Mars 10771-10-14 04:33 G 5655372.54 5655372.69 5655372.85 0.1609 0.0227

Mars 10772-08-25 05:02 G 5655688.62 5655688.71 5655688.80 0.1932 0.1281

Saturn 10775-01-16 13:11 G 5656563.00 5656563.05 5656563.10 0.0274 0.0256

Saturn 10775-04-15 03:07 G 5656651.51 5656651.63 5656651.75 0.0274 0.0150

Saturn 10775-07-12 16:48 G 5656740.05 5656740.20 5656740.34 0.0274 0.0047

Moon 10775-08-17 14:09 G 5656776.01 5656776.09 5656776.18 0.2680 0.2053

Earth 10775-08-17 15:07 G 5656776.03 5656776.13 5656776.24 0.2675 0.1852 *

Saturn 10775-10-09 06:00 G 5656828.61 5656828.75 5656828.90 0.0274 0.0056

Saturn 10776-01-05 19:11 G 5656917.18 5656917.30 5656917.42 0.0275 0.0157

Saturn 10776-04-03 07:55 G 5657005.79 5657005.83 5657005.89 0.0275 0.0256

Jupiter 10777-09-12 17:31 G 5657533.11 5657533.23 5657533.36 0.0543 0.0249

Jupiter 10777-12-11 07:40 G 5657622.75 5657622.82 5657622.90 0.0544 0.0449

Earth 10779-02-24 17:45 G 5658063.18 5658063.24 5658063.30 0.2660 0.2269

Moon 10779-02-24 18:28 G 5658063.23 5658063.27 5658063.32 0.2660 0.2403 *

Venus 10779-05-21 00:57 G 5658148.48 5658148.54 5658148.59 0.3683 0.3192

Mars 10781-03-05 08:52 G 5658802.72 5658802.87 5658803.02 0.1606 0.0476

Jupiter 10783-07-28 13:11 G 5659677.89 5659678.05 5659678.21 0.0485 0.0115

Jupiter 10783-10-26 07:40 G 5659767.82 5659767.82 5659767.85 0.0484 0.0482

Mars 10783-12-22 08:52 G 5659824.80 5659824.87 5659824.95 0.1920 0.1471

Venus 10784-12-03 18:57 G 5660172.20 5660172.29 5660172.39 0.3684 0.1815

Moon 10786-02-17 13:11 G 5660612.97 5660613.05 5660613.12 0.2662 0.1995

Earth 10786-02-17 13:26 G 5660612.99 5660613.06 5660613.14 0.2657 0.1982 *

Venus 10786-06-17 12:14 G 5660732.94 5660733.01 5660733.09 0.3687 0.3034

Moon 10788-08-19 17:02 G 5661527.07 5661527.21 5661527.35 0.2680 0.0536

Earth 10788-08-19 17:16 G 5661527.08 5661527.22 5661527.36 0.2673 0.0498 *

Jupiter 10789-07-01 20:09 G 5661843.25 5661843.34 5661843.42 0.0543 0.0417

Saturn 10789-08-01 09:50 G 5661873.85 5661873.91 5661873.98 0.0285 0.0260

Jupiter 10789-09-29 10:33 G 5661932.83 5661932.94 5661933.06 0.0544 0.0290

Saturn 10789-10-29 03:07 G 5661962.50 5661962.63 5661962.78 0.0285 0.0137

Saturn 10790-01-25 21:07 G 5662051.22 5662051.38 5662051.54 0.0285 0.0011

Saturn 10790-04-24 15:07 G 5662139.98 5662140.13 5662140.28 0.0284 0.0119

Venus 10790-06-19 12:57 G 5662195.93 5662196.04 5662196.15 0.3684 0.0479

Saturn 10790-07-22 09:36 G 5662228.83 5662228.90 5662228.98 0.0284 0.0250

Mars 10790-07-26 13:40 G 5662232.96 5662233.07 5662233.18 0.1603 0.1145

Venus 10792-01-01 12:43 G 5662756.90 5662757.03 5662757.16 0.3686 0.0948

Mars 10793-05-13 16:04 G 5663255.06 5663255.17 5663255.29 0.1924 0.0623

Jupiter 10795-05-16 14:23 G 5663987.97 5663988.10 5663988.24 0.0485 0.0258

Jupiter 10795-08-14 08:38 G 5664077.75 5664077.86 5664077.99 0.0484 0.0333

Venus 10796-01-03 06:43 G 5664219.68 5664219.78 5664219.89 0.3685 0.0838

Uranus 10796-10-26 20:52 G 5664517.30 5664517.37 5664517.45 0.0145 0.0129

Uranus 10797-01-23 03:36 G 5664605.53 5664605.65 5664605.77 0.0145 0.0103

Uranus 10797-04-21 10:19 G 5664693.79 5664693.93 5664694.08 0.0145 0.0076

Venus 10797-07-17 13:40 G 5664780.95 5664781.07 5664781.20 0.3685 0.1279

Uranus 10797-07-18 17:02 G 5664782.05 5664782.21 5664782.38 0.0145 0.0050

Uranus 10797-10-15 00:00 G 5664870.33 5664870.50 5664870.68 0.0145 0.0022

Uranus 10798-01-11 06:57 G 5664958.61 5664958.79 5664958.97 0.0145 0.0005

Uranus 10798-04-09 13:55 G 5665046.91 5665047.08 5665047.25 0.0145 0.0033

Uranus 10798-07-06 20:38 G 5665135.21 5665135.36 5665135.53 0.0144 0.0061

Uranus 10798-10-03 03:36 G 5665223.53 5665223.65 5665223.81 0.0144 0.0089

Uranus 10798-12-30 11:02 G 5665311.86 5665311.96 5665312.07 0.0144 0.0116

Moon 10799-02-20 08:52 G 5665363.75 5665363.87 5665363.98 0.2665 0.0477

Earth 10799-02-20 08:38 G 5665363.75 5665363.86 5665363.98 0.2658 0.0431 *

Uranus 10799-03-28 18:00 G 5665400.25 5665400.25 5665400.27 0.0144 0.0144

Jupiter 10801-07-18 12:57 G 5666242.91 5666243.04 5666243.18 0.0543 0.0123

Venus 10801-07-19 00:14 G 5666243.43 5666243.51 5666243.61 0.3685 0.2093

Mars 10801-11-22 01:11 G 5666369.43 5666369.55 5666369.67 0.1612 0.1040

Mars 10802-10-03 22:48 G 5666685.33 5666685.45 5666685.57 0.1928 0.0277

Venus 10803-01-31 15:21 G 5666805.12 5666805.14 5666805.16 0.3685 0.3619

Saturn 10804-09-01 03:21 G 5667383.54 5667383.64 5667383.75 0.0274 0.0191

Saturn 10804-11-28 17:02 G 5667472.07 5667472.21 5667472.36 0.0275 0.0086

Saturn 10805-02-25 06:43 G 5667560.63 5667560.78 5667560.92 0.0275 0.0019

Saturn 10805-05-24 19:55 G 5667649.20 5667649.33 5667649.46 0.0275 0.0119

Saturn 10805-08-21 08:38 G 5667737.78 5667737.86 5667737.95 0.0275 0.0220

Venus 10807-02-01 17:45 G 5668267.19 5668267.24 5668267.29 0.3686 0.3305

Jupiter 10807-03-04 15:36 G 5668298.06 5668298.15 5668298.24 0.0486 0.0402

Jupiter 10807-06-02 09:21 G 5668387.74 5668387.89 5668388.05 0.0485 0.0182

Mars 10811-04-14 05:16 G 5669799.56 5669799.72 5669799.87 0.1609 0.0321

Earth 10812-02-23 03:50 G 5670114.55 5670114.66 5670114.76 0.2659 0.1096

Moon 10812-02-23 04:33 G 5670114.59 5670114.69 5670114.79 0.2662 0.1262 *

Mars 10812-02-24 05:16 G 5670115.63 5670115.72 5670115.82 0.1932 0.1186

Jupiter 10813-05-06 15:07 G 5670552.99 5670553.13 5670553.26 0.0543 0.0057

Saturn 10819-03-18 04:04 G 5672694.55 5672694.67 5672694.80 0.0285 0.0171

Jupiter 10819-03-21 10:33 G 5672697.78 5672697.94 5672698.11 0.0485 0.0040

Saturn 10819-06-14 21:50 G 5672783.25 5672783.41 5672783.57 0.0284 0.0045

Saturn 10819-09-11 15:50 G 5672872.01 5672872.16 5672872.32 0.0284 0.0083

Saturn 10819-12-09 10:19 G 5672960.82 5672960.93 5672961.04 0.0284 0.0213

Mars 10820-09-03 09:36 G 5673229.75 5673229.90 5673230.05 0.1606 0.0378

Moon 10821-08-17 20:09 G 5673578.22 5673578.34 5673578.45 0.2680 0.1469

Earth 10821-08-17 21:07 G 5673578.26 5673578.38 5673578.50 0.2675 0.1394 *

Mars 10823-06-22 09:07 G 5674251.81 5674251.88 5674251.95 0.1919 0.1559

Jupiter 10825-02-22 16:04 G 5674863.04 5674863.17 5674863.29 0.0543 0.0248

Earth 10825-02-24 22:48 G 5674865.42 5674865.45 5674865.47 0.2661 0.2588

Moon 10825-02-24 23:31 G 5674865.48 5674865.48 5674865.48 0.2660 0.2660

Jupiter 10825-05-23 06:00 G 5674952.68 5674952.75 5674952.83 0.0544 0.0450

Mars 10830-01-24 13:55 G 5676659.97 5676660.08 5676660.20 0.1603 0.1062

Jupiter 10831-01-07 12:00 G 5677007.85 5677008.00 5677008.16 0.0485 0.0103

Moon 10832-02-18 18:14 G 5677415.17 5677415.26 5677415.35 0.2663 0.1727

Earth 10832-02-18 18:28 G 5677415.18 5677415.27 5677415.36 0.2657 0.1653 *

Mars 10832-11-11 16:04 G 5677682.06 5677682.17 5677682.28 0.1924 0.0696

Saturn 10834-01-19 06:00 G 5678115.66 5678115.75 5678115.84 0.0274 0.0214

Saturn 10834-04-17 19:55 G 5678204.19 5678204.33 5678204.46 0.0274 0.0109

Saturn 10834-07-15 09:21 G 5678292.74 5678292.89 5678293.04 0.0274 0.0007

Moon 10834-08-20 23:16 G 5678329.34 5678329.47 5678329.60 0.2680 0.0900

Earth 10834-08-20 23:16 G 5678329.34 5678329.47 5678329.61 0.2673 0.0978 *

Saturn 10834-10-11 22:33 G 5678381.30 5678381.44 5678381.58 0.0274 0.0096

Saturn 10835-01-08 11:31 G 5678469.88 5678469.98 5678470.08 0.0275 0.0196

Venus 10835-12-25 23:02 G 5678821.39 5678821.46 5678821.53 0.3683 0.2763

Jupiter 10836-12-11 18:00 G 5679173.17 5679173.25 5679173.34 0.0543 0.0422

Jupiter 10837-03-11 08:38 G 5679262.74 5679262.86 5679262.98 0.0544 0.0285

Uranus 10839-08-07 14:23 G 5680142.06 5680142.10 5680142.14 0.0133 0.0126

Uranus 10839-11-03 17:45 G 5680230.17 5680230.24 5680230.34 0.0133 0.0109

Uranus 10840-01-30 21:36 G 5680318.30 5680318.40 5680318.51 0.0134 0.0091

Uranus 10840-04-28 01:26 G 5680406.44 5680406.56 5680406.68 0.0134 0.0073

Uranus 10840-07-25 04:48 G 5680494.58 5680494.70 5680494.84 0.0134 0.0056

Uranus 10840-10-21 08:38 G 5680582.72 5680582.86 5680583.00 0.0134 0.0038

Uranus 10841-01-17 12:14 G 5680670.87 5680671.01 5680671.15 0.0134 0.0020

Uranus 10841-04-15 15:50 G 5680759.02 5680759.16 5680759.30 0.0134 0.0004

Mars 10841-05-23 01:40 G 5680796.46 5680796.57 5680796.68 0.1612 0.1129

Venus 10841-07-10 17:16 G 5680845.11 5680845.22 5680845.32 0.3684 0.1401

Uranus 10841-07-12 19:11 G 5680847.16 5680847.30 5680847.45 0.0134 0.0015

Uranus 10841-10-08 22:48 G 5680935.31 5680935.45 5680935.59 0.0134 0.0032

Uranus 10842-01-05 02:23 G 5681023.47 5681023.60 5681023.73 0.0134 0.0049

Uranus 10842-04-03 05:45 G 5681111.62 5681111.74 5681111.86 0.0134 0.0066

Mars 10842-04-03 23:02 G 5681112.34 5681112.46 5681112.58 0.1928 0.0178

Uranus 10842-06-30 09:07 G 5681199.78 5681199.88 5681200.00 0.0134 0.0084

Uranus 10842-09-26 12:43 G 5681287.94 5681288.03 5681288.12 0.0134 0.0100

Jupiter 10842-10-26 13:11 G 5681317.91 5681318.05 5681318.19 0.0485 0.0247

Uranus 10842-12-23 16:04 G 5681376.11 5681376.17 5681376.24 0.0134 0.0117

Venus 10843-01-22 12:00 G 5681405.91 5681406.00 5681406.10 0.3687 0.2414

Jupiter 10843-01-24 07:26 G 5681407.70 5681407.81 5681407.93 0.0484 0.0343

Uranus 10843-03-21 19:26 G 5681464.31 5681464.31 5681464.32 0.0134 0.0134

Earth 10845-02-20 13:40 G 5682165.96 5682166.07 5682166.19 0.2658 0.0118

Moon 10845-02-20 13:55 G 5682165.97 5682166.08 5682166.20 0.2664 0.0054 *

Venus 10847-01-24 11:02 G 5682868.85 5682868.96 5682869.08 0.3685 0.0136

Neptune 10847-11-15 14:09 G 5683164.05 5683164.09 5683164.16 0.0088 0.0082

Neptune 10848-02-11 16:33 G 5683252.11 5683252.19 5683252.29 0.0088 0.0074

Neptune 10848-05-09 19:11 G 5683340.19 5683340.30 5683340.41 0.0088 0.0066

Saturn 10848-08-04 02:52 G 5683426.52 5683426.62 5683426.72 0.0285 0.0218

Neptune 10848-08-05 21:36 G 5683428.28 5683428.40 5683428.53 0.0088 0.0058

Venus 10848-08-07 12:43 G 5683429.90 5683430.03 5683430.17 0.3686 0.0288

Saturn 10848-10-31 20:23 G 5683515.20 5683515.35 5683515.50 0.0285 0.0094

Neptune 10848-11-02 00:00 G 5683516.37 5683516.50 5683516.64 0.0088 0.0050

Jupiter 10848-12-28 11:31 G 5683572.84 5683572.98 5683573.11 0.0544 0.0124

Saturn 10849-01-28 14:09 G 5683603.93 5683604.09 5683604.25 0.0284 0.0033

Neptune 10849-01-29 02:23 G 5683604.46 5683604.60 5683604.76 0.0088 0.0042

Neptune 10849-04-27 04:48 G 5683692.56 5683692.70 5683692.87 0.0088 0.0034

Saturn 10849-04-27 08:23 G 5683692.72 5683692.85 5683692.99 0.0284 0.0162 *

Neptune 10849-07-24 07:26 G 5683780.65 5683780.81 5683780.98 0.0088 0.0026

Neptune 10849-10-20 09:50 G 5683868.75 5683868.91 5683869.09 0.0088 0.0018

Neptune 10850-01-16 12:28 G 5683956.85 5683957.02 5683957.19 0.0088 0.0009

Neptune 10850-04-14 15:07 G 5684044.96 5684045.13 5684045.30 0.0088 0.0001

Neptune 10850-07-11 17:31 G 5684133.06 5684133.23 5684133.40 0.0088 0.0007

Neptune 10850-10-07 20:09 G 5684221.17 5684221.34 5684221.51 0.0088 0.0016

Mars 10850-10-13 05:45 G 5684226.59 5684226.74 5684226.89 0.1609 0.0413

Neptune 10851-01-03 22:33 G 5684309.28 5684309.44 5684309.61 0.0088 0.0024

Neptune 10851-04-02 00:57 G 5684397.39 5684397.54 5684397.71 0.0088 0.0033

Neptune 10851-06-29 03:36 G 5684485.51 5684485.65 5684485.81 0.0088 0.0041

Mars 10851-08-25 05:31 G 5684542.63 5684542.73 5684542.83 0.1932 0.1095

Neptune 10851-09-25 06:28 G 5684573.63 5684573.77 5684573.91 0.0088 0.0049

Neptune 10851-12-22 08:52 G 5684661.75 5684661.87 5684662.01 0.0088 0.0058

Neptune 10852-03-19 11:31 G 5684749.88 5684749.98 5684750.10 0.0088 0.0066

Neptune 10852-06-15 13:55 G 5684838.01 5684838.08 5684838.19 0.0088 0.0075

Venus 10852-08-09 04:48 G 5684892.60 5684892.70 5684892.81 0.3685 0.1227

Neptune 10852-09-11 17:02 G 5684926.16 5684926.21 5684926.26 0.0088 0.0083

Venus 10854-02-21 13:55 G 5685453.97 5685454.08 5685454.19 0.3685 0.1964

Jupiter 10854-08-14 14:38 G 5685628.02 5685628.11 5685628.21 0.0485 0.0387

Jupiter 10854-11-12 08:23 G 5685717.70 5685717.85 5685718.01 0.0484 0.0196

Venus 10858-02-22 22:19 G 5686916.35 5686916.43 5686916.51 0.3686 0.2470

Earth 10858-02-23 08:52 G 5686916.77 5686916.87 5686916.96 0.2659 0.1416

Moon 10858-02-23 09:36 G 5686916.80 5686916.90 5686917.00 0.2662 0.1452 *

Mars 10860-03-04 10:04 G 5687656.76 5687656.92 5687657.07 0.1606 0.0291

Jupiter	10860-10-16 13:55 G	5687882.94	5687883.08	5687883.22	0.0543	0.0044
Mars	10862-12-21 09:07 G	5688678.82	5688678.88	5688678.94	0.1919	0.1640
Saturn	10863-06-08 06:00 G	5688847.70	5688847.75	5688847.80	0.0274	0.0256
Saturn	10863-09-04 19:55 G	5688936.21	5688936.33	5688936.46	0.0274	0.0150
Venus	10863-09-08 15:36 G	5688940.15	5688940.15	5688940.16	0.3686	0.3681
Saturn	10863-12-02 09:36 G	5689024.76	5689024.90	5689025.05	0.0274	0.0046
Saturn	10864-02-28 23:02 G	5689113.32	5689113.46	5689113.60	0.0275	0.0056
Saturn	10864-05-27 12:00 G	5689201.89	5689202.00	5689202.12	0.0275	0.0157
Saturn	10864-08-24 00:57 G	5689290.49	5689290.54	5689290.59	0.0275	0.0256
Jupiter	10866-08-31 09:21 G	5690027.72	5690027.89	5690028.05	0.0485	0.0047
Moon	10867-08-19 02:09 G	5690380.46	5690380.59	5690380.72	0.2679	0.1085
Earth	10867-08-19 03:07 G	5690380.49	5690380.63	5690380.76	0.2674	0.0932 *
Mars	10869-07-25 14:38 G	5691086.99	5691087.11	5691087.23	0.1603	0.0968
Mars	10872-05-12 16:19 G	5692109.07	5692109.18	5692109.29	0.1924	0.0794
Jupiter	10872-08-04 15:50 G	5692193.03	5692193.16	5692193.28	0.0543	0.0222
Jupiter	10872-11-02 05:45 G	5692282.68	5692282.74	5692282.81	0.0544	0.0474
Pluto	10874-10-23 06:57 G	5693002.77	5693002.79	5693002.84	0.0071	0.0069
Pluto	10875-01-19 07:40 G	5693090.76	5693090.82	5693090.91	0.0071	0.0060
Pluto	10875-04-17 08:23 G	5693178.77	5693178.85	5693178.96	0.0071	0.0051
Pluto	10875-07-14 09:21 G	5693266.79	5693266.89	5693267.00	0.0071	0.0042
Pluto	10875-10-10 10:04 G	5693354.81	5693354.92	5693355.05	0.0071	0.0033
Pluto	10876-01-06 10:48 G	5693442.83	5693442.95	5693443.08	0.0071	0.0024
Pluto	10876-04-03 11:31 G	5693530.86	5693530.98	5693531.12	0.0072	0.0015
Pluto	10876-06-30 12:28 G	5693618.88	5693619.02	5693619.16	0.0072	0.0005
Pluto	10876-09-26 13:11 G	5693706.92	5693707.05	5693707.19	0.0072	0.0005
Pluto	10876-12-23 13:55 G	5693794.95	5693795.08	5693795.22	0.0072	0.0014
Pluto	10877-03-21 14:38 G	5693882.99	5693883.11	5693883.24	0.0072	0.0024
Pluto	10877-06-17 15:21 G	5693971.03	5693971.14	5693971.27	0.0072	0.0033
Pluto	10877-09-13 16:04 G	5694059.07	5694059.17	5694059.29	0.0072	0.0043
Pluto	10877-12-10 17:02 G	5694147.12	5694147.21	5694147.31	0.0072	0.0053

Saturn 10877-12-22 03:21 G 5694158.57 5694158.64 5694158.71 0.0285 0.0255

Moon 10878-02-18 23:16 G 5694217.37 5694217.47 5694217.57 0.2664 0.1338

Earth 10878-02-18 23:31 G 5694217.38 5694217.48 5694217.58 0.2657 0.1322 *

Pluto 10878-03-08 17:45 G 5694235.18 5694235.24 5694235.31 0.0072 0.0063

Saturn 10878-03-20 20:38 G 5694247.22 5694247.36 5694247.51 0.0285 0.0132

Pluto 10878-06-04 18:43 G 5694323.28 5694323.28 5694323.28 0.0073 0.0073

Saturn 10878-06-17 14:23 G 5694335.94 5694336.10 5694336.27 0.0284 0.0010

Jupiter 10878-06-19 10:33 G 5694337.79 5694337.94 5694338.11 0.0485 0.0095

Saturn 10878-09-14 08:38 G 5694424.71 5694424.86 5694425.01 0.0284 0.0123

Saturn 10878-12-12 03:07 G 5694513.56 5694513.63 5694513.71 0.0284 0.0255

Earth 10880-08-21 05:16 G 5695131.60 5695131.72 5695131.84 0.2673 0.1449

Moon 10880-08-21 05:31 G 5695131.61 5695131.73 5695131.84 0.2680 0.1549 *

Uranus 10880-11-16 04:48 G 5695218.62 5695218.70 5695218.81 0.0145 0.0120

Mars 10880-11-21 02:23 G 5695223.50 5695223.60 5695223.70 0.1612 0.1233

Uranus 10881-02-12 11:45 G 5695306.86 5695306.99 5695307.12 0.0145 0.0093

Uranus 10881-05-11 18:14 G 5695395.12 5695395.26 5695395.43 0.0145 0.0067

Uranus 10881-08-08 01:11 G 5695483.39 5695483.55 5695483.72 0.0145 0.0040

Mars 10881-10-02 23:02 G 5695539.34 5695539.46 5695539.58 0.1928 0.0098

Uranus 10881-11-04 08:09 G 5695571.67 5695571.84 5695572.02 0.0145 0.0013

Uranus 10882-01-31 15:07 G 5695659.96 5695660.13 5695660.31 0.0145 0.0015

Uranus 10882-04-29 22:04 G 5695748.25 5695748.42 5695748.59 0.0145 0.0042

Uranus 10882-07-27 04:48 G 5695836.56 5695836.70 5695836.87 0.0144 0.0071

Uranus 10882-10-23 12:00 G 5695924.88 5695925.00 5695925.14 0.0144 0.0098

Uranus 10883-01-19 19:11 G 5696013.22 5696013.30 5696013.39 0.0144 0.0126

Jupiter 10884-05-23 16:33 G 5696503.10 5696503.19 5696503.28 0.0543 0.0418

Jupiter 10884-08-21 07:11 G 5696592.68 5696592.80 5696592.91 0.0544 0.0288

Jupiter 10890-04-07 12:14 G 5698647.87 5698648.01 5698648.15 0.0485 0.0233

Mars 10890-04-13 06:14 G 5698653.61 5698653.76 5698653.91 0.1609 0.0505

Jupiter 10890-07-06 06:28 G 5698737.67 5698737.77 5698737.89 0.0484 0.0358

Earth 10891-02-21 18:43 G 5698968.16 5698968.28 5698968.40 0.2658 0.0221

Moon 10891-02-21 19:11 G 5698968.18 5698968.30 5698968.42 0.2664 0.0240 *

Mars 10891-02-23 05:31 G 5698969.63 5698969.73 5698969.83 0.1932 0.1012

Venus 10892-07-31 21:07 G 5699494.30 5699494.38 5699494.47 0.3684 0.2338

Saturn 10893-01-21 22:33 G 5699668.33 5699668.44 5699668.56 0.0274 0.0174

Saturn 10893-04-20 12:14 G 5699756.87 5699757.01 5699757.16 0.0274 0.0070

Saturn 10893-07-18 01:40 G 5699845.43 5699845.57 5699845.72 0.0274 0.0033

Saturn 10893-10-14 14:52 G 5699933.99 5699934.12 5699934.25 0.0274 0.0134

Saturn 10894-01-11 03:50 G 5700022.59 5700022.66 5700022.73 0.0275 0.0233

Jupiter 10896-06-09 09:36 G 5700902.76 5700902.90 5700903.03 0.0544 0.0120

Venus 10898-02-14 15:21 G 5701518.03 5701518.14 5701518.25 0.3684 0.0976

Venus 10899-08-29 12:00 G 5702078.88 5702079.00 5702079.11 0.3686 0.1777

Mars 10899-09-03 10:19 G 5702083.78 5702083.93 5702084.09 0.1606 0.0206

Jupiter 10902-01-25 13:26 G 5702957.96 5702958.06 5702958.17 0.0485 0.0376

Jupiter 10902-04-25 07:26 G 5703047.66 5703047.81 5703047.96 0.0484 0.0208

Mars 10902-06-22 09:21 G 5703105.84 5703105.89 5703105.94 0.1920 0.1732

Venus 10903-09-01 09:07 G 5703541.77 5703541.88 5703541.99 0.3685 0.0361

Earth 10904-02-25 13:55 G 5703718.99 5703719.08 5703719.16 0.2660 0.1731

Moon 10904-02-25 14:38 G 5703719.03 5703719.11 5703719.19 0.2662 0.1906 *

Venus 10905-03-15 12:43 G 5704102.90 5704103.03 5704103.17 0.3686 0.0388

Saturn 10907-08-08 19:40 G 5704979.20 5704979.32 5704979.45 0.0285 0.0177

Saturn 10907-11-05 13:11 G 5705067.89 5705068.05 5705068.21 0.0285 0.0053

Saturn 10908-02-02 07:11 G 5705156.65 5705156.80 5705156.96 0.0284 0.0076

Jupiter 10908-03-29 12:14 G 5705212.87 5705213.01 5705213.15 0.0544 0.0044

Saturn 10908-05-01 01:40 G 5705245.46 5705245.57 5705245.68 0.0284 0.0205

Mars 10909-01-24 15:07 G 5705514.00 5705514.13 5705514.26 0.1604 0.0880

Venus 10909-03-17 02:52 G 5705565.52 5705565.62 5705565.72 0.3685 0.1617

Venus 10910-09-29 14:09 G 5706126.99 5706127.09 5706127.18 0.3685 0.2668

Earth 10911-02-18 09:21 G 5706268.86 5706268.89 5706268.92 0.2656 0.2562

Mars 10911-11-12 16:19 G 5706536.08 5706536.18 5706536.29 0.1924 0.0884

Moon 10913-08-20 08:09 G 5707182.71 5707182.84 5707182.98 0.2680 0.0550

Earth 10913-08-20 08:52 G 5707182.73 5707182.87 5707183.01 0.2674 0.0464 *

Jupiter 10914-02-11 08:23 G 5707357.69 5707357.85 5707358.02 0.0485 0.0063

Venus 10914-09-30 20:23 G 5707589.28 5707589.35 5707589.42 0.3686 0.2852

Mars 10918-06-16 19:55 G 5708944.29 5708944.33 5708944.37 0.1601 0.1542

Jupiter 10920-01-16 14:38 G 5709522.98 5709523.11 5709523.24 0.0543 0.0211

Jupiter 10920-04-15 04:33 G 5709612.64 5709612.69 5709612.76 0.0544 0.0485

Mars 10920-05-23 02:52 G 5709650.53 5709650.62 5709650.71 0.1612 0.1328

Mars 10921-04-03 23:16 G 5709966.35 5709966.47 5709966.59 0.1928 0.0066

Saturn 10922-06-11 22:33 G 5710400.35 5710400.44 5710400.53 0.0274 0.0216

Saturn 10922-09-08 12:14 G 5710488.88 5710489.01 5710489.15 0.0274 0.0112

Saturn 10922-12-06 01:55 G 5710577.43 5710577.58 5710577.73 0.0274 0.0008

Saturn 10923-03-04 15:07 G 5710666.00 5710666.13 5710666.27 0.0275 0.0094

Saturn 10923-06-01 04:04 G 5710754.58 5710754.67 5710754.78 0.0275 0.0194

Uranus 10923-08-28 21:50 G 5710843.36 5710843.41 5710843.48 0.0133 0.0120

Uranus 10923-11-25 01:40 G 5710931.48 5710931.57 5710931.67 0.0133 0.0102

Moon 10924-02-21 04:33 G 5711019.58 5711019.69 5711019.80 0.2664 0.1021

Earth 10924-02-21 04:33 G 5711019.58 5711019.69 5711019.80 0.2657 0.0994 *

Uranus 10924-02-21 05:31 G 5711019.62 5711019.73 5711019.84 0.0133 0.0084 *

Uranus 10924-05-19 08:52 G 5711107.75 5711107.87 5711108.00 0.0134 0.0067

Uranus 10924-08-15 12:43 G 5711195.90 5711196.03 5711196.16 0.0134 0.0049

Uranus 10924-11-11 16:04 G 5711284.04 5711284.17 5711284.32 0.0134 0.0032

Uranus 10925-02-07 19:55 G 5711372.19 5711372.33 5711372.47 0.0134 0.0014

Uranus 10925-05-06 23:16 G 5711460.33 5711460.47 5711460.62 0.0134 0.0006

Uranus 10925-08-03 02:52 G 5711548.48 5711548.62 5711548.76 0.0134 0.0021

Uranus 10925-10-30 06:28 G 5711636.63 5711636.77 5711636.90 0.0134 0.0038

Jupiter 10925-11-30 09:21 G 5711667.73 5711667.89 5711668.05 0.0485 0.0085

Uranus 10926-01-26 09:50 G 5711724.79 5711724.91 5711725.04 0.0134 0.0056

Uranus 10926-04-24 13:26 G 5711812.94 5711813.06 5711813.18 0.0134 0.0072

Uranus 10926-07-21 16:48 G 5711901.10 5711901.20 5711901.31 0.0134 0.0090

Earth 10926-08-23 11:16 G 5711933.87 5711933.97 5711934.07 0.2673 0.1933

Moon 10926-08-23 11:31 G 5711933.89 5711933.98 5711934.08 0.2680 0.1925 *

Uranus 10926-10-17 20:09 G 5711989.26 5711989.34 5711989.43 0.0134 0.0107

Uranus 10927-01-13 23:31 G 5712077.44 5712077.48 5712077.54 0.0134 0.0124

Mars 10929-10-13 06:43 G 5713080.64 5713080.78 5713080.93 0.1609 0.0601

Neptune 10930-05-25 00:57 G 5713304.51 5713304.54 5713304.58 0.0089 0.0086

Neptune 10930-08-21 02:52 G 5713392.56 5713392.62 5713392.70 0.0089 0.0079

Mars 10930-08-25 05:45 G 5713396.63 5713396.74 5713396.85 0.1932 0.0914

Neptune 10930-11-17 04:48 G 5713480.62 5713480.70 5713480.80 0.0089 0.0071

Neptune 10931-02-13 06:28 G 5713568.68 5713568.77 5713568.89 0.0089 0.0064

Neptune 10931-05-12 08:23 G 5713656.75 5713656.85 5713656.98 0.0089 0.0056

Neptune 10931-08-08 10:33 G 5713744.82 5713744.94 5713745.07 0.0089 0.0047

Neptune 10931-11-04 12:28 G 5713832.89 5713833.02 5713833.15 0.0089 0.0040

Jupiter 10931-11-04 16:19 G 5713833.09 5713833.18 5713833.28 0.0543 0.0391 *

Neptune 10932-01-31 14:09 G 5713920.96 5713921.09 5713921.24 0.0089 0.0032

Jupiter 10932-02-02 06:57 G 5713922.68 5713922.79 5713922.90 0.0544 0.0314

Neptune 10932-04-28 16:04 G 5714009.03 5714009.17 5714009.32 0.0089 0.0025

Neptune 10932-07-25 18:00 G 5714097.11 5714097.25 5714097.40 0.0089 0.0017

Neptune 10932-10-21 19:55 G 5714185.18 5714185.33 5714185.48 0.0089 0.0009

Neptune 10933-01-17 21:50 G 5714273.26 5714273.41 5714273.55 0.0089 0.0003

Neptune 10933-04-15 23:31 G 5714361.33 5714361.48 5714361.63 0.0089 0.0006

Neptune 10933-07-13 01:26 G 5714449.41 5714449.56 5714449.70 0.0089 0.0014

Neptune 10933-10-09 03:07 G 5714537.49 5714537.63 5714537.77 0.0089 0.0021

Neptune 10934-01-05 04:48 G 5714625.57 5714625.70 5714625.84 0.0089 0.0029

Neptune 10934-04-03 06:28 G 5714713.65 5714713.77 5714713.91 0.0089 0.0037

Neptune 10934-06-30 08:23 G 5714801.73 5714801.85 5714801.98 0.0089 0.0044

Neptune 10934-09-26 09:50 G 5714889.81 5714889.91 5714890.05 0.0089 0.0052

Neptune 10934-12-23 11:45 G 5714977.89 5714977.99 5714978.11 0.0089 0.0059

Neptune 10935-03-21 13:40 G 5715065.98 5715066.07 5715066.17 0.0089 0.0066

Neptune 10935-06-17 15:07 G 5715154.06 5715154.13 5715154.23 0.0089 0.0074

Neptune 10935-09-13 16:48 G 5715242.16 5715242.20 5715242.28 0.0089 0.0081

Neptune 10935-12-10 18:43 G 5715330.26 5715330.28 5715330.31 0.0089 0.0088

Saturn 10936-12-25 19:40 G 5715711.22 5715711.32 5715711.42 0.0285 0.0217

Earth 10937-02-22 23:45 G 5715770.38 5715770.49 5715770.61 0.2658 0.0547

Moon 10937-02-23 00:28 G 5715770.40 5715770.52 5715770.63 0.2663 0.0658 *

Saturn 10937-03-24 13:11 G 5715799.90 5715800.05 5715800.20 0.0285 0.0093

Saturn 10937-06-21 07:11 G 5715888.63 5715888.80 5715888.96 0.0284 0.0035

Saturn 10937-09-18 01:11 G 5715977.42 5715977.55 5715977.69 0.0284 0.0163

Jupiter 10937-09-18 11:02 G 5715977.81 5715977.96 5715978.10 0.0485 0.0225

Jupiter 10937-12-17 05:16 G 5716067.61 5716067.72 5716067.83 0.0484 0.0367

Mars 10939-03-05 11:02 G 5716510.80 5716510.96 5716511.12 0.1606 0.0105

Mars 10940-01-15 11:45 G 5716826.97 5716826.99 5716827.02 0.1935 0.1865

Mars 10941-12-21 09:21 G 5717532.86 5717532.89 5717532.93 0.1919 0.1814

Venus 10943-08-24 01:11 G 5718143.50 5718143.55 5718143.60 0.3683 0.3298

Jupiter 10943-11-21 08:09 G 5718232.70 5718232.84 5718232.97 0.0544 0.0124

Moon 10946-08-18 11:45 G 5719233.95 5719233.99 5719234.03 0.2679 0.2542

Earth 10946-08-18 12:57 G 5719233.97 5719234.04 5719234.11 0.2676 0.2311 *

Mars 10948-07-25 15:36 G 5719941.01 5719941.15 5719941.28 0.1603 0.0792

Venus 10949-03-08 19:26 G 5720167.21 5720167.31 5720167.40 0.3684 0.1909

Jupiter 10949-07-07 12:43 G 5720287.92 5720288.03 5720288.13 0.0485 0.0362

Jupiter 10949-10-05 06:28 G 5720377.62 5720377.77 5720377.92 0.0485 0.0223

Earth 10950-02-25 18:43 G 5720521.21 5720521.28 5720521.36 0.2660 0.2048

Moon 10950-02-25 19:26 G 5720521.25 5720521.31 5720521.38 0.2661 0.2097 *

Venus 10950-09-20 11:31 G 5720727.92 5720727.98 5720728.04 0.3687 0.3203

Mars 10951-05-13 16:33 G 5720963.08 5720963.19 5720963.29 0.1924 0.0966

Saturn 10951-10-30 01:11 G 5721132.48 5721132.55 5721132.62 0.0274 0.0239

Saturn 10952-01-26 15:07 G 5721221.00 5721221.13 5721221.26 0.0274 0.0134

Saturn 10952-04-24 04:48 G 5721309.55 5721309.70 5721309.84 0.0274 0.0031

Saturn 10952-07-21 18:00 G 5721398.11 5721398.25 5721398.39 0.0274 0.0072

Saturn 10952-10-18 07:11 G 5721486.69 5721486.80 5721486.91 0.0275 0.0172

Saturn 10953-01-14 19:55 G 5721575.31 5721575.33 5721575.36 0.0275 0.0270

Venus	10954-09-22 13:26 G	5722190.95	5722191.06	5722191.17	0.3684	0.0561
Jupiter	10955-09-09 10:19 G	5722542.79	5722542.93	5722543.07	0.0544	0.0048
Venus	10956-04-05 11:45 G	5722751.87	5722751.99	5722752.12	0.3686	0.1142
Moon	10957-02-18 13:55 G	5723071.02	5723071.08	5723071.14	0.2662	0.2254
Earth	10957-02-18 14:23 G	5723071.04	5723071.10	5723071.16	0.2656	0.2231 *
Mars	10957-12-15 20:09 G	5723371.28	5723371.34	5723371.40	0.1601	0.1460
Moon	10959-08-21 14:23 G	5723984.96	5723985.10	5723985.25	0.2680	0.0086
Earth	10959-08-21 14:52 G	5723984.98	5723985.12	5723985.26	0.2674	0.0011 *
Mars	10959-11-22 03:07 G	5724077.56	5724077.63	5724077.71	0.1612	0.1418
Venus	10960-04-07 07:11 G	5724214.69	5724214.80	5724214.91	0.3685	0.0748
Pluto	10960-06-14 16:33 G	5724283.12	5724283.19	5724283.29	0.0073	0.0065
Pluto	10960-09-10 18:57 G	5724371.17	5724371.29	5724371.44	0.0073	0.0051
Mars	10960-10-02 23:16 G	5724393.35	5724393.47	5724393.59	0.1928	0.0110
Pluto	10960-12-07 21:21 G	5724459.23	5724459.39	5724459.56	0.0073	0.0037
Pluto	10961-03-05 23:16 G	5724547.31	5724547.47	5724547.66	0.0073	0.0024
Pluto	10961-06-02 01:40 G	5724635.39	5724635.57	5724635.76	0.0073	0.0010
Jupiter	10961-07-24 07:26 G	5724687.64	5724687.81	5724687.97	0.0485	0.0074
Pluto	10961-08-29 04:04 G	5724723.48	5724723.67	5724723.86	0.0073	0.0004
Venus	10961-10-20 12:43 G	5724775.90	5724776.03	5724776.16	0.3685	0.1061
Pluto	10961-11-25 06:00 G	5724811.58	5724811.75	5724811.94	0.0072	0.0017
Pluto	10962-02-21 08:09 G	5724899.68	5724899.84	5724900.02	0.0072	0.0031
Pluto	10962-05-20 10:19 G	5724987.79	5724987.93	5724988.09	0.0072	0.0044
Pluto	10962-08-16 12:00 G	5725075.91	5725076.00	5725076.14	0.0072	0.0057
Pluto	10962-11-12 14:09 G	5725164.07	5725164.09	5725164.16	0.0072	0.0070
Uranus	10964-09-10 06:00 G	5725831.71	5725831.75	5725831.81	0.0145	0.0138
Uranus	10964-12-07 12:28 G	5725919.93	5725920.02	5725920.14	0.0145	0.0112
Uranus	10965-03-05 19:26 G	5726008.18	5726008.31	5726008.46	0.0145	0.0085
Uranus	10965-06-02 02:23 G	5726096.44	5726096.60	5726096.76	0.0145	0.0058
Uranus	10965-08-29 09:07 G	5726184.71	5726184.88	5726185.05	0.0145	0.0031
Venus	10965-10-22 00:57 G	5726238.44	5726238.54	5726238.63	0.3686	0.2007

Uranus 10965-11-25 16:04 G 5726272.99 5726273.17 5726273.34 0.0145 0.0004

Uranus 10966-02-21 22:48 G 5726361.28 5726361.45 5726361.63 0.0145 0.0024

Saturn 10966-05-14 18:57 G 5726443.23 5726443.29 5726443.36 0.0285 0.0260

Uranus 10966-05-21 05:45 G 5726449.58 5726449.74 5726449.91 0.0145 0.0051

Saturn 10966-08-11 12:28 G 5726531.88 5726532.02 5726532.16 0.0285 0.0137

Uranus 10966-08-17 12:43 G 5726537.89 5726538.03 5726538.19 0.0145 0.0079

Saturn 10966-11-08 06:14 G 5726620.59 5726620.76 5726620.92 0.0285 0.0014

Uranus 10966-11-13 19:40 G 5726626.21 5726626.32 5726626.45 0.0144 0.0107

Saturn 10967-02-05 00:14 G 5726709.36 5726709.51 5726709.66 0.0284 0.0117

Uranus 10967-02-10 02:38 G 5726714.57 5726714.61 5726714.69 0.0144 0.0135

Saturn 10967-05-04 18:43 G 5726798.20 5726798.28 5726798.36 0.0284 0.0248

Venus 10967-05-06 14:23 G 5726800.04 5726800.10 5726800.15 0.3685 0.3378

Jupiter 10967-06-28 12:57 G 5726852.91 5726853.04 5726853.17 0.0543 0.0214

Jupiter 10967-09-26 03:07 G 5726942.57 5726942.63 5726942.69 0.0544 0.0485

Mars 10969-04-13 07:11 G 5727507.66 5727507.80 5727507.94 0.1609 0.0692

Moon 10970-02-21 09:36 G 5727821.79 5727821.90 5727822.02 0.2664 0.0689

Earth 10970-02-21 09:36 G 5727821.79 5727821.90 5727822.02 0.2657 0.0669 *

Mars 10970-02-23 05:45 G 5727823.63 5727823.74 5727823.85 0.1932 0.0829

Venus 10971-05-07 18:14 G 5728262.21 5728262.26 5728262.31 0.3686 0.3228

Earth 10972-08-23 17:16 G 5728736.16 5728736.22 5728736.28 0.2673 0.2412

Moon 10972-08-23 17:31 G 5728736.19 5728736.23 5728736.28 0.2679 0.2502 *

Jupiter 10973-05-12 08:38 G 5728997.70 5728997.86 5728998.02 0.0485 0.0070

Mars 10978-09-03 11:31 G 5730937.82 5730937.98 5730938.14 0.1606 0.0019

Jupiter 10979-04-16 15:07 G 5731163.03 5731163.13 5731163.23 0.0543 0.0382

Jupiter 10979-07-15 05:45 G 5731252.63 5731252.74 5731252.85 0.0544 0.0323

Mars 10979-07-16 12:14 G 5731253.96 5731254.01 5731254.05 0.1935 0.1762

Saturn 10981-06-14 14:52 G 5731953.01 5731953.12 5731953.24 0.0274 0.0177

Mars 10981-06-21 09:36 G 5731959.88 5731959.90 5731959.91 0.1919 0.1904

Saturn 10981-09-11 04:48 G 5732041.55 5732041.70 5732041.84 0.0274 0.0072

Saturn 10981-12-08 18:14 G 5732130.11 5732130.26 5732130.40 0.0274 0.0031

Saturn	10982-03-07 07:26 G	5732218.68	5732218.81	5732218.94	0.0275	0.0131
Saturn	10982-06-03 20:09 G	5732307.27	5732307.34	5732307.43	0.0275	0.0231
Earth	10983-02-24 04:48 G	5732572.59	5732572.70	5732572.81	0.2659	0.0866
Moon	10983-02-24 05:31 G	5732572.62	5732572.73	5732572.84	0.2664	0.0943 *
Jupiter	10985-02-28 09:36 G	5733307.76	5733307.90	5733308.05	0.0485	0.0216
Jupiter	10985-05-29 03:50 G	5733397.56	5733397.66	5733397.77	0.0484	0.0376
Mars	10988-01-24 16:04 G	5734368.03	5734368.17	5734368.31	0.1603	0.0700
Mars	10990-11-11 16:33 G	5735390.09	5735390.19	5735390.29	0.1924	0.1055
Jupiter	10991-05-03 07:55 G	5735562.70	5735562.83	5735562.97	0.0544	0.0151
Moon	10992-08-18 17:31 G	5736036.14	5736036.23	5736036.33	0.2679	0.1928
Earth	10992-08-18 18:43 G	5736036.18	5736036.28	5736036.38	0.2675	0.1858 *
Saturn	10995-12-29 12:00 G	5737263.89	5737264.00	5737264.13	0.0285	0.0179
Earth	10996-02-26 23:45 G	5737323.44	5737323.49	5737323.54	0.2660	0.2365
Moon	10996-02-27 00:28 G	5737323.49	5737323.52	5737323.56	0.2659	0.2509 *
Saturn	10996-03-27 05:45 G	5737352.58	5737352.74	5737352.90	0.0284	0.0054
Saturn	10996-06-23 23:45 G	5737441.33	5737441.49	5737441.65	0.0284	0.0074
Saturn	10996-09-20 18:00 G	5737530.14	5737530.25	5737530.37	0.0284	0.0204
Jupiter	10996-12-17 11:16 G	5737617.86	5737617.97	5737618.08	0.0485	0.0354
Jupiter	10997-03-17 05:02 G	5737707.57	5737707.71	5737707.86	0.0485	0.0232
Mars	10997-06-15 20:52 G	5737798.29	5737798.37	5737798.45	0.1601	0.1368
Mars	10999-05-23 03:50 G	5738504.61	5738504.66	5738504.71	0.1612	0.1519
Venus	11000-03-30 23:16 G	5738816.40	5738816.47	5738816.54	0.3684	0.2864
Mars	11000-04-03 23:16 G	5738820.36	5738820.47	5738820.59	0.1928	0.0185

12TH MILLENNIUM CE

This is a list of transits of Mercury in the 12th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**11003-02-20 08:52**	**G**	**5739872.73**	**5739872.87**	**5739873.01**	**0.0543**	**0.0044**	
Moon	**11003-02-20 18:57**	**G**	**5739873.21**	**5739873.29**	**5739873.36**	**0.2662**	**0.2037**	
Earth	**11003-02-20 19:26**	**G**	**5739873.23**	**5739873.31**	**5739873.39**	**0.2656**	**0.1900**	*****
Moon	**11005-08-22 20:38**	**G**	**5740787.22**	**5740787.36**	**5740787.50**	**0.2681**	**0.0399**	
Earth	**11005-08-22 20:52**	**G**	**5740787.23**	**5740787.37**	**5740787.51**	**0.2674**	**0.0484**	*****
Venus	**11005-10-14 17:31**	**G**	**5740840.13**	**5740840.23**	**5740840.33**	**0.3684**	**0.1488**	
Venus	**11007-04-28 11:16**	**G**	**5741400.88**	**5741400.97**	**5741401.06**	**0.3687**	**0.2594**	
Uranus	**11007-06-23 01:55**	**G**	**5741456.56**	**5741456.58**	**5741456.62**	**0.0133**	**0.0130**	
Uranus	**11007-09-19 05:45**	**G**	**5741544.67**	**5741544.74**	**5741544.82**	**0.0133**	**0.0112**	
Uranus	**11007-12-16 09:21**	**G**	**5741632.80**	**5741632.89**	**5741633.00**	**0.0133**	**0.0095**	
Uranus	**11008-03-13 13:11**	**G**	**5741720.93**	**5741721.05**	**5741721.17**	**0.0133**	**0.0077**	
Uranus	**11008-06-09 16:48**	**G**	**5741809.07**	**5741809.20**	**5741809.33**	**0.0134**	**0.0059**	
Uranus	**11008-09-05 20:23**	**G**	**5741897.22**	**5741897.35**	**5741897.49**	**0.0134**	**0.0042**	
Mars	**11008-10-13 07:40**	**G**	**5741934.69**	**5741934.82**	**5741934.96**	**0.1609**	**0.0790**	
Uranus	**11008-12-03 00:00**	**G**	**5741985.36**	**5741985.50**	**5741985.64**	**0.0134**	**0.0024**	
Jupiter	**11009-01-04 06:28**	**G**	**5742017.61**	**5742017.77**	**5742017.93**	**0.0485**	**0.0089**	
Uranus	**11009-03-01 03:36**	**G**	**5742073.51**	**5742073.65**	**5742073.79**	**0.0134**	**0.0007**	
Uranus	**11009-05-28 07:11**	**G**	**5742161.66**	**5742161.80**	**5742161.94**	**0.0134**	**0.0011**	
Uranus	**11009-08-24 10:48**	**G**	**5742249.81**	**5742249.95**	**5742250.08**	**0.0134**	**0.0028**	
Mars	**11009-08-25 06:00**	**G**	**5742250.64**	**5742250.75**	**5742250.86**	**0.1932**	**0.0738**	
Uranus	**11009-11-20 14:09**	**G**	**5742337.96**	**5742338.09**	**5742338.23**	**0.0134**	**0.0045**	
Uranus	**11010-02-16 17:45**	**G**	**5742426.11**	**5742426.24**	**5742426.36**	**0.0134**	**0.0062**	
Uranus	**11010-05-15 21:07**	**G**	**5742514.27**	**5742514.38**	**5742514.50**	**0.0134**	**0.0079**	
Uranus	**11010-08-12 00:28**	**G**	**5742602.43**	**5742602.52**	**5742602.62**	**0.0134**	**0.0096**	
Saturn	**11010-11-02 17:45**	**G**	**5742685.14**	**5742685.24**	**5742685.34**	**0.0274**	**0.0199**	
Uranus	**11010-11-08 03:50**	**G**	**5742690.60**	**5742690.66**	**5742690.74**	**0.0134**	**0.0114**	

Saturn 11011-01-30 07:26 G 5742773.68 5742773.81 5742773.96 0.0274 0.0095

Uranus 11011-02-04 07:11 G 5742778.78 5742778.80 5742778.85 0.0134 0.0131

Saturn 11011-04-28 21:07 G 5742862.23 5742862.38 5742862.53 0.0274 0.0009

Venus 11011-04-30 11:31 G 5742863.87 5742863.98 5742864.09 0.3685 0.0158

Saturn 11011-07-26 10:19 G 5742950.80 5742950.93 5742951.07 0.0275 0.0111

Saturn 11011-10-22 23:31 G 5743039.39 5743039.48 5743039.57 0.0275 0.0210

Neptune 11012-08-13 12:14 G 5743334.96 5743335.01 5743335.09 0.0088 0.0081

Neptune 11012-11-09 14:52 G 5743423.04 5743423.12 5743423.22 0.0088 0.0073

Venus 11012-11-11 11:45 G 5743424.86 5743424.99 5743425.12 0.3686 0.0487

Neptune 11013-02-05 17:16 G 5743511.12 5743511.22 5743511.34 0.0088 0.0065

Neptune 11013-05-04 19:40 G 5743599.20 5743599.32 5743599.45 0.0088 0.0057

Neptune 11013-07-31 22:04 G 5743687.29 5743687.42 5743687.57 0.0088 0.0049

Neptune 11013-10-28 00:28 G 5743775.38 5743775.52 5743775.68 0.0088 0.0041

Neptune 11014-01-24 03:07 G 5743863.48 5743863.63 5743863.79 0.0088 0.0033

Neptune 11014-04-22 05:31 G 5743951.58 5743951.73 5743951.90 0.0088 0.0025

Neptune 11014-07-19 08:09 G 5744039.67 5744039.84 5744040.01 0.0088 0.0016

Neptune 11014-10-15 10:33 G 5744127.78 5744127.94 5744128.11 0.0088 0.0008

Jupiter 11014-12-09 11:02 G 5744182.83 5744182.96 5744183.09 0.0543 0.0218

Neptune 11015-01-11 13:11 G 5744215.88 5744216.05 5744216.22 0.0088 0.0000

Jupiter 11015-03-09 01:11 G 5744272.49 5744272.55 5744272.61 0.0544 0.0480

Neptune 11015-04-09 15:36 G 5744303.98 5744304.15 5744304.32 0.0088 0.0009

Neptune 11015-07-06 18:00 G 5744392.09 5744392.25 5744392.43 0.0088 0.0017

Neptune 11015-10-02 20:38 G 5744480.20 5744480.36 5744480.53 0.0088 0.0025

Neptune 11015-12-29 23:16 G 5744568.31 5744568.47 5744568.63 0.0088 0.0033

Earth 11016-02-23 14:38 G 5744624.00 5744624.11 5744624.23 0.2657 0.0348

Moon 11016-02-23 14:52 G 5744624.01 5744624.12 5744624.24 0.2664 0.0273 *

Neptune 11016-03-27 01:40 G 5744656.43 5744656.57 5744656.73 0.0088 0.0042

Neptune 11016-06-23 04:19 G 5744744.55 5744744.68 5744744.83 0.0088 0.0050

Neptune 11016-09-19 06:43 G 5744832.67 5744832.78 5744832.92 0.0088 0.0059

Venus 11016-11-13 05:16 G 5744887.61 5744887.72 5744887.82 0.3685 0.1132

Neptune 11016-12-16 09:21 G 5744920.79 5744920.89 5744921.01 0.0088 0.0067

Neptune 11017-03-14 11:45 G 5745008.93 5745008.99 5745009.10 0.0088 0.0076

Neptune 11017-06-10 14:38 G 5745097.07 5745097.11 5745097.17 0.0088 0.0084

Mars 11018-03-05 12:00 G 5745364.84 5745365.00 5745365.15 0.1606 0.0080

Venus 11018-05-28 12:43 G 5745448.91 5745449.03 5745449.15 0.3685 0.1729

Mars 11019-01-15 12:14 G 5745680.95 5745681.01 5745681.07 0.1935 0.1670

Jupiter 11020-10-23 07:26 G 5746327.65 5746327.81 5746327.97 0.0485 0.0059

Venus 11022-05-29 22:48 G 5746911.37 5746911.45 5746911.53 0.3686 0.2387

Saturn 11025-05-18 12:00 G 5747995.90 5747996.00 5747996.10 0.0285 0.0218

Saturn 11025-08-15 05:31 G 5748084.57 5748084.73 5748084.88 0.0285 0.0095

Saturn 11025-11-11 23:16 G 5748173.31 5748173.47 5748173.63 0.0284 0.0032

Saturn 11026-02-08 17:31 G 5748262.09 5748262.23 5748262.36 0.0284 0.0161

Jupiter 11026-09-27 13:11 G 5748492.96 5748493.05 5748493.15 0.0543 0.0386

Jupiter 11026-12-26 03:50 G 5748582.56 5748582.66 5748582.78 0.0544 0.0322

Mars 11027-07-26 16:33 G 5748795.05 5748795.19 5748795.33 0.1604 0.0609

Venus 11027-12-13 16:04 G 5748935.15 5748935.17 5748935.19 0.3686 0.3590

Earth 11029-02-25 09:50 G 5749374.81 5749374.91 5749375.01 0.2659 0.1185

Moon 11029-02-25 10:33 G 5749374.83 5749374.94 5749375.04 0.2663 0.1274 *

Mars 11030-05-13 16:48 G 5749817.10 5749817.20 5749817.29 0.1924 0.1146

Jupiter 11032-08-11 08:38 G 5750637.72 5750637.86 5750638.01 0.0485 0.0202

Jupiter 11032-11-09 02:52 G 5750727.53 5750727.62 5750727.72 0.0484 0.0390

Mars 11036-12-15 21:21 G 5752225.30 5752225.39 5752225.48 0.1601 0.1281

Moon 11038-08-20 23:45 G 5752838.38 5752838.49 5752838.61 0.2680 0.1594

Earth 11038-08-21 00:43 G 5752838.41 5752838.53 5752838.65 0.2675 0.1389 *

Jupiter 11038-10-14 06:43 G 5752892.65 5752892.78 5752892.91 0.0544 0.0158

Mars 11039-10-03 23:31 G 5753247.36 5753247.48 5753247.60 0.1928 0.0259

Saturn 11040-03-21 17:45 G 5753417.17 5753417.24 5753417.31 0.0274 0.0241

Saturn 11040-06-18 07:40 G 5753505.69 5753505.82 5753505.95 0.0274 0.0136

Saturn 11040-09-14 21:21 G 5753594.24 5753594.39 5753594.53 0.0274 0.0032

Saturn 11040-12-12 10:33 G 5753682.80 5753682.94 5753683.09 0.0274 0.0071

Saturn 11041-03-10 23:45 G 5753771.38 5753771.49 5753771.61 0.0275 0.0170

Saturn 11041-06-07 12:28 G 5753860.00 5753860.02 5753860.06 0.0275 0.0269

Jupiter 11044-05-30 09:50 G 5754947.80 5754947.91 5754948.03 0.0485 0.0346

Jupiter 11044-08-28 03:36 G 5755037.51 5755037.65 5755037.80 0.0485 0.0239

Mars 11048-04-13 08:23 G 5756361.72 5756361.85 5756361.98 0.1609 0.0884

Uranus 11048-10-01 13:55 G 5756533.02 5756533.08 5756533.17 0.0145 0.0129

Uranus 11048-12-28 20:52 G 5756621.25 5756621.37 5756621.49 0.0145 0.0102

Moon 11049-02-21 00:00 G 5756675.41 5756675.50 5756675.60 0.2662 0.1566

Earth 11049-02-21 00:28 G 5756675.43 5756675.52 5756675.61 0.2656 0.1568 *

Mars 11049-02-23 06:00 G 5756677.64 5756677.75 5756677.87 0.1932 0.0650

Uranus 11049-03-27 03:21 G 5756709.50 5756709.64 5756709.80 0.0145 0.0076

Uranus 11049-06-23 10:19 G 5756797.77 5756797.93 5756798.10 0.0145 0.0049

Uranus 11049-09-19 17:16 G 5756886.05 5756886.22 5756886.39 0.0145 0.0022

Uranus 11049-12-17 00:00 G 5756974.33 5756974.50 5756974.68 0.0145 0.0006

Uranus 11050-03-15 06:57 G 5757062.62 5757062.79 5757062.96 0.0145 0.0033

Uranus 11050-06-11 13:40 G 5757150.92 5757151.07 5757151.24 0.0145 0.0061

Jupiter 11050-08-02 08:52 G 5757202.73 5757202.87 5757203.01 0.0543 0.0023

Uranus 11050-09-07 20:52 G 5757239.23 5757239.37 5757239.51 0.0145 0.0088

Uranus 11050-12-05 03:50 G 5757327.56 5757327.66 5757327.77 0.0144 0.0116

Uranus 11051-03-03 11:02 G 5757415.95 5757415.96 5757415.98 0.0144 0.0144

Moon 11051-08-24 02:38 G 5757589.48 5757589.61 5757589.74 0.2681 0.1008

Earth 11051-08-24 02:52 G 5757589.48 5757589.62 5757589.75 0.2674 0.0957 *

Saturn 11054-10-05 11:31 G 5758727.92 5758727.98 5758728.05 0.0285 0.0260

Saturn 11055-01-02 05:02 G 5758816.57 5758816.71 5758816.85 0.0285 0.0138

Saturn 11055-03-31 22:33 G 5758905.28 5758905.44 5758905.61 0.0284 0.0014

Saturn 11055-06-28 16:33 G 5758994.05 5758994.19 5758994.35 0.0284 0.0117

Saturn 11055-09-25 11:16 G 5759082.89 5759082.97 5759083.05 0.0284 0.0246

Jupiter 11056-03-18 11:31 G 5759257.97 5759257.98 5759258.00 0.0486 0.0483

Jupiter 11056-06-16 05:02 G 5759347.55 5759347.71 5759347.87 0.0485 0.0096

Venus 11056-11-04 21:36 G 5759489.31 5759489.40 5759489.48 0.3684 0.2442

Mars 11057-09-03 12:28 G 5759791.87 5759792.02 5759792.18 0.1606 0.0176

Mars 11058-07-16 12:28 G 5760107.95 5760108.02 5760108.08 0.1935 0.1588

Earth 11062-02-23 19:40 G 5761426.20 5761426.32 5761426.44 0.2657 0.0050

Moon 11062-02-23 20:09 G 5761426.22 5761426.34 5761426.45 0.2664 0.0071 *

Jupiter 11062-05-21 09:36 G 5761512.77 5761512.90 5761513.03 0.0543 0.0211

Venus 11062-05-21 15:36 G 5761513.05 5761513.15 5761513.26 0.3684 0.1076

Jupiter 11062-08-18 23:45 G 5761602.43 5761602.49 5761602.55 0.0544 0.0486

Venus 11063-12-03 11:02 G 5762073.85 5762073.96 5762074.07 0.3686 0.1968

Mars 11067-01-24 16:48 G 5763222.06 5763222.20 5763222.35 0.1603 0.0526

Venus 11067-12-05 09:36 G 5763536.79 5763536.90 5763537.01 0.3685 0.0252

Jupiter 11068-04-04 06:28 G 5763657.60 5763657.77 5763657.93 0.0485 0.0048

Venus 11069-06-18 11:45 G 5764097.85 5764097.99 5764098.12 0.3686 0.0189

Saturn 11069-08-08 20:23 G 5764149.32 5764149.35 5764149.40 0.0274 0.0263

Saturn 11069-11-05 10:33 G 5764237.82 5764237.94 5764238.06 0.0274 0.0157

Mars 11069-11-11 16:48 G 5764244.11 5764244.20 5764244.29 0.1924 0.1223

Saturn 11070-02-02 00:14 G 5764326.36 5764326.51 5764326.65 0.0275 0.0053

Saturn 11070-05-01 13:40 G 5764414.93 5764415.07 5764415.21 0.0275 0.0050

Saturn 11070-07-29 02:52 G 5764503.50 5764503.62 5764503.74 0.0275 0.0150

Saturn 11070-10-25 15:50 G 5764592.10 5764592.16 5764592.22 0.0275 0.0249

Venus 11073-06-20 03:21 G 5765560.54 5765560.64 5765560.74 0.3686 0.1528

Jupiter 11074-03-09 11:16 G 5765822.88 5765822.97 5765823.07 0.0543 0.0391

Jupiter 11074-06-07 02:09 G 5765912.48 5765912.59 5765912.70 0.0544 0.0316

Venus 11075-01-02 12:57 G 5766121.94 5766122.04 5766122.14 0.3685 0.2424

Earth 11075-02-26 14:52 G 5766177.02 5766177.12 5766177.21 0.2659 0.1502

Moon 11075-02-26 15:36 G 5766177.06 5766177.15 5766177.24 0.2662 0.1629 *

Mars 11076-06-15 21:36 G 5766652.30 5766652.40 5766652.51 0.1601 0.1194

Venus 11079-01-03 20:52 G 5767584.29 5767584.37 5767584.44 0.3686 0.2764

Mars 11079-04-03 23:45 G 5767674.37 5767674.49 5767674.61 0.1928 0.0357

Jupiter 11080-01-22 07:26 G 5767967.66 5767967.81 5767967.96 0.0485 0.0193

Jupiter 11080-04-21 01:40 G 5768057.48 5768057.57 5768057.66 0.0484 0.0398

Saturn 11084-05-21 05:16 G 5769548.60 5769548.72 5769548.85 0.0285 0.0174

Saturn 11084-08-17 22:48 G 5769637.30 5769637.45 5769637.61 0.0284 0.0050

Moon 11084-08-21 06:00 G 5769640.62 5769640.75 5769640.88 0.2681 0.0935

Earth 11084-08-21 06:43 G 5769640.64 5769640.78 5769640.91 0.2675 0.0929 *

Saturn 11084-11-14 16:48 G 5769726.04 5769726.20 5769726.36 0.0284 0.0078

Saturn 11085-02-11 11:02 G 5769814.85 5769814.96 5769815.08 0.0284 0.0207

Jupiter 11086-03-26 04:48 G 5770222.56 5770222.70 5770222.83 0.0544 0.0153

Mars 11087-10-13 08:52 G 5770788.74 5770788.87 5770788.99 0.1609 0.0979

Mars 11088-08-24 06:14 G 5771104.65 5771104.76 5771104.88 0.1932 0.0556

Uranus 11091-07-13 09:50 G 5772157.86 5772157.91 5772157.97 0.0133 0.0123

Uranus 11091-10-09 13:26 G 5772245.99 5772246.06 5772246.16 0.0133 0.0106

Jupiter 11091-11-10 08:52 G 5772277.76 5772277.87 5772277.99 0.0485 0.0333

Uranus 11092-01-05 17:16 G 5772334.12 5772334.22 5772334.33 0.0133 0.0088

Jupiter 11092-02-08 02:38 G 5772367.47 5772367.61 5772367.75 0.0484 0.0251

Uranus 11092-04-02 20:52 G 5772422.25 5772422.37 5772422.50 0.0133 0.0070

Uranus 11092-06-30 00:28 G 5772510.40 5772510.52 5772510.66 0.0134 0.0053

Uranus 11092-09-26 04:19 G 5772598.54 5772598.68 5772598.81 0.0134 0.0035

Uranus 11092-12-23 07:55 G 5772686.68 5772686.83 5772686.97 0.0134 0.0018

Uranus 11093-03-21 11:16 G 5772774.83 5772774.97 5772775.12 0.0134 0.0004

Uranus 11093-06-17 14:52 G 5772862.98 5772863.12 5772863.26 0.0134 0.0017

Uranus 11093-09-13 18:28 G 5772951.13 5772951.27 5772951.40 0.0134 0.0034

Uranus 11093-12-10 21:50 G 5773039.29 5773039.41 5773039.54 0.0134 0.0052

Uranus 11094-03-09 01:11 G 5773127.44 5773127.55 5773127.68 0.0134 0.0069

Uranus 11094-06-05 04:48 G 5773215.60 5773215.70 5773215.81 0.0134 0.0086

Uranus 11094-09-01 08:09 G 5773303.76 5773303.84 5773303.94 0.0134 0.0103

Uranus 11094-11-28 11:31 G 5773391.93 5773391.98 5773392.05 0.0134 0.0120

Neptune 11095-02-19 23:16 G 5773475.45 5773475.47 5773475.52 0.0089 0.0087

Moon 11095-02-22 05:16 G 5773477.62 5773477.72 5773477.82 0.2662 0.1334

Earth 11095-02-22 05:31 G 5773477.63 5773477.73 5773477.83 0.2656 0.1239 *

Neptune 11095-05-19 01:11 G 5773563.49 5773563.55 5773563.63 0.0089 0.0079

Neptune 11095-08-15 03:21 G 5773651.55 5773651.64 5773651.73 0.0089 0.0071

Neptune 11095-11-11 05:02 G 5773739.62 5773739.71 5773739.82 0.0089 0.0063

Neptune 11096-02-07 06:57 G 5773827.68 5773827.79 5773827.92 0.0089 0.0055

Neptune 11096-05-05 08:52 G 5773915.75 5773915.87 5773916.00 0.0089 0.0048

Neptune 11096-08-01 10:48 G 5774003.82 5774003.95 5774004.09 0.0089 0.0040

Neptune 11096-10-28 12:43 G 5774091.90 5774092.03 5774092.17 0.0089 0.0032

Neptune 11097-01-24 14:38 G 5774179.97 5774180.11 5774180.25 0.0089 0.0024

Mars 11097-03-04 12:57 G 5774218.89 5774219.04 5774219.20 0.1606 0.0266

Neptune 11097-04-22 16:33 G 5774268.04 5774268.19 5774268.33 0.0089 0.0017

Neptune 11097-07-19 18:14 G 5774356.12 5774356.26 5774356.41 0.0089 0.0010

Moon 11097-08-24 08:52 G 5774391.74 5774391.87 5774391.99 0.2680 0.1367

Earth 11097-08-24 08:52 G 5774391.75 5774391.87 5774391.99 0.2674 0.1442 *

Neptune 11097-10-15 20:09 G 5774444.19 5774444.34 5774444.49 0.0089 0.0002

Neptune 11098-01-11 22:04 G 5774532.27 5774532.42 5774532.56 0.0089 0.0006

Jupiter 11098-01-12 07:11 G 5774532.66 5774532.80 5774532.94 0.0544 0.0016

Mars 11098-01-14 12:28 G 5774534.95 5774535.02 5774535.10 0.1935 0.1493

Neptune 11098-04-09 23:45 G 5774620.35 5774620.49 5774620.64 0.0089 0.0014

Neptune 11098-07-07 01:26 G 5774708.43 5774708.56 5774708.71 0.0089 0.0022

Neptune 11098-10-03 03:21 G 5774796.51 5774796.64 5774796.78 0.0089 0.0029

Neptune 11098-12-30 05:02 G 5774884.58 5774884.71 5774884.85 0.0089 0.0037

Saturn 11099-03-25 10:33 G 5774969.84 5774969.94 5774970.04 0.0274 0.0199

Neptune 11099-03-28 06:57 G 5774972.67 5774972.79 5774972.92 0.0089 0.0044

Saturn 11099-06-22 00:28 G 5775058.38 5775058.52 5775058.66 0.0274 0.0094

Neptune 11099-06-24 08:38 G 5775060.75 5775060.86 5775060.99 0.0089 0.0051

Saturn 11099-09-18 13:55 G 5775146.94 5775147.08 5775147.23 0.0274 0.0011

Neptune 11099-09-20 10:19 G 5775148.83 5775148.93 5775149.05 0.0089 0.0059

Saturn 11099-12-16 03:21 G 5775235.51 5775235.64 5775235.77 0.0275 0.0111

Neptune 11099-12-17 12:00 G 5775236.92 5775237.00 5775237.11 0.0089 0.0066

Saturn 11100-03-14 16:19 G 5775324.09 5775324.18 5775324.27 0.0275 0.0210

Neptune 11100-03-15 13:40 G 5775325.01 5775325.07 5775325.17 0.0089 0.0074

Neptune 11100-06-11 15:36 G 5775413.10 5775413.15 5775413.22 0.0089 0.0081

Neptune 11100-09-07 17:31 G 5775501.21 5775501.23 5775501.26 0.0089 0.0088

Jupiter 11103-08-30 10:04 G 5776587.90 5776587.92 5776587.95 0.0486 0.0476

Jupiter 11103-11-28 03:21 G 5776677.48 5776677.64 5776677.81 0.0485 0.0102

Mars 11106-07-26 17:31 G 5777649.08 5777649.23 5777649.38 0.1604 0.0426

Venus 11107-11-28 01:26 G 5778138.52 5778138.56 5778138.60 0.3684 0.3411

Earth 11108-02-26 00:43 G 5778228.42 5778228.53 5778228.65 0.2658 0.0317

Moon 11108-02-26 01:11 G 5778228.43 5778228.55 5778228.66 0.2664 0.0430 *

Mars 11109-05-13 17:02 G 5778671.12 5778671.21 5778671.29 0.1924 0.1321

Jupiter 11109-11-01 09:21 G 5778842.75 5778842.89 5778843.02 0.0543 0.0188

Jupiter 11110-01-29 23:31 G 5778932.43 5778932.48 5778932.52 0.0544 0.0509

Venus 11113-06-12 19:40 G 5780162.23 5780162.32 5780162.42 0.3684 0.2012

Saturn 11113-10-09 04:48 G 5780280.60 5780280.70 5780280.80 0.0285 0.0217

Saturn 11114-01-05 22:19 G 5780369.27 5780369.43 5780369.58 0.0284 0.0094

Saturn 11114-04-04 16:04 G 5780458.01 5780458.17 5780458.33 0.0284 0.0033

Saturn 11114-07-02 10:19 G 5780546.79 5780546.93 5780547.06 0.0284 0.0161

Venus 11114-12-25 10:33 G 5780722.90 5780722.94 5780722.99 0.3687 0.3388

Jupiter 11115-09-16 04:48 G 5780987.54 5780987.70 5780987.86 0.0485 0.0041

Mars 11115-12-16 22:19 G 5781079.31 5781079.43 5781079.54 0.1601 0.1104

Mars 11118-10-03 23:45 G 5782101.37 5782101.49 5782101.61 0.1928 0.0435

Venus 11118-12-27 13:40 G 5782185.96 5782186.07 5782186.18 0.3685 0.0674

Venus 11120-07-10 10:48 G 5782746.83 5782746.95 5782747.08 0.3686 0.1344

Earth 11121-02-27 19:55 G 5782979.24 5782979.33 5782979.41 0.2659 0.1825

Moon 11121-02-27 20:38 G 5782979.28 5782979.36 5782979.44 0.2660 0.1879 *

Pluto 11121-06-11 19:55 G 5783083.31 5783083.33 5783083.38 0.0071 0.0068

Jupiter 11121-08-20 10:04 G 5783152.82 5783152.92 5783153.02 0.0542 0.0384

Pluto 11121-09-07 20:38 G 5783171.30 5783171.36 5783171.45 0.0071 0.0059

Jupiter 11121-11-18 00:43 G 5783242.42 5783242.53 5783242.64 0.0543 0.0321

Pluto 11121-12-04 21:21 G 5783259.31 5783259.39 5783259.50 0.0071 0.0050

Pluto 11122-03-02 22:04 G 5783347.32 5783347.42 5783347.54 0.0071 0.0041

Pluto	11122-05-29 23:02 G	5783435.34	5783435.46	5783435.58	0.0071	0.0032
Pluto	11122-08-25 23:45 G	5783523.37	5783523.49	5783523.62	0.0071	0.0023
Pluto	11122-11-22 00:28 G	5783611.39	5783611.52	5783611.66	0.0072	0.0014
Pluto	11123-02-18 01:11 G	5783699.42	5783699.55	5783699.69	0.0072	0.0005
Pluto	11123-05-17 02:09 G	5783787.45	5783787.59	5783787.72	0.0072	0.0006
Pluto	11123-08-13 02:52 G	5783875.49	5783875.62	5783875.75	0.0072	0.0015
Pluto	11123-11-09 03:36 G	5783963.52	5783963.65	5783963.78	0.0072	0.0024
Pluto	11124-02-05 04:19 G	5784051.57	5784051.68	5784051.80	0.0072	0.0034
Pluto	11124-05-03 04:48 G	5784139.61	5784139.70	5784139.82	0.0072	0.0045
Venus	11124-07-12 07:40 G	5784209.71	5784209.82	5784209.93	0.3685	0.0648
Pluto	11124-07-30 05:45 G	5784227.66	5784227.74	5784227.84	0.0072	0.0054
Pluto	11124-10-26 06:28 G	5784315.72	5784315.77	5784315.85	0.0072	0.0064
Venus	11126-01-24 11:45 G	5784770.86	5784770.99	5784771.12	0.3685	0.0833
Mars	11127-04-14 09:21 G	5785215.77	5785215.89	5785216.00	0.1609	0.1071
Jupiter	11127-07-05 06:14 G	5785297.61	5785297.76	5785297.91	0.0485	0.0183
Jupiter	11127-10-03 00:28 G	5785387.43	5785387.52	5785387.61	0.0485	0.0410
Moon	11128-02-21 14:23 G	5785529.09	5785529.10	5785529.12	0.2659	0.2629
Earth	11128-02-21 15:07 G	5785529.09	5785529.13	5785529.17	0.2655	0.2485 *
Mars	11128-02-24 06:14 G	5785531.65	5785531.76	5785531.88	0.1932	0.0472
Saturn	11128-08-12 13:26 G	5785701.97	5785702.06	5785702.15	0.0275	0.0220
Saturn	11128-11-09 03:21 G	5785790.51	5785790.64	5785790.78	0.0275	0.0115
Saturn	11129-02-05 17:02 G	5785879.06	5785879.21	5785879.36	0.0275	0.0011
Saturn	11129-05-05 06:28 G	5785967.63	5785967.77	5785967.91	0.0275	0.0091
Saturn	11129-08-01 19:26 G	5786056.21	5786056.31	5786056.42	0.0275	0.0192
Venus	11130-01-26 01:11 G	5786233.46	5786233.55	5786233.65	0.3686	0.1914
Moon	11130-08-23 12:00 G	5786442.86	5786443.00	5786443.14	0.2681	0.0618
Earth	11130-08-23 12:28 G	5786442.88	5786443.02	5786443.16	0.2675	0.0462 *
Venus	11131-08-10 13:11 G	5786794.98	5786795.05	5786795.12	0.3685	0.3133
Uranus	11132-10-22 21:50 G	5787234.32	5787234.41	5787234.50	0.0145	0.0121
Uranus	11133-01-19 04:19 G	5787322.56	5787322.68	5787322.82	0.0145	0.0095

Uranus 11133-04-17 11:16 G 5787410.82 5787410.97 5787411.12 0.0145 0.0068

Uranus 11133-07-14 18:00 G 5787499.08 5787499.25 5787499.42 0.0145 0.0041

Jupiter 11133-09-06 02:38 G 5787552.48 5787552.61 5787552.75 0.0543 0.0148

Uranus 11133-10-11 00:43 G 5787587.36 5787587.53 5787587.71 0.0145 0.0015

Uranus 11134-01-07 07:40 G 5787675.65 5787675.82 5787676.00 0.0145 0.0013

Uranus 11134-04-05 14:23 G 5787763.94 5787764.10 5787764.28 0.0145 0.0041

Uranus 11134-07-02 21:36 G 5787852.24 5787852.40 5787852.55 0.0145 0.0068

Uranus 11134-09-29 04:33 G 5787940.56 5787940.69 5787940.82 0.0145 0.0096

Uranus 11134-12-26 11:31 G 5788028.90 5788028.98 5788029.08 0.0145 0.0124

Venus 11135-08-11 18:43 G 5788257.23 5788257.28 5788257.34 0.3686 0.3136

Mars 11136-09-03 13:26 G 5788645.91 5788646.06 5788646.21 0.1606 0.0354

Mars 11137-07-16 12:43 G 5788961.95 5788962.03 5788962.12 0.1935 0.1394

Jupiter 11139-04-23 07:11 G 5789607.69 5789607.80 5789607.93 0.0485 0.0328

Jupiter 11139-07-22 01:11 G 5789697.41 5789697.55 5789697.69 0.0484 0.0258

Moon 11141-02-23 10:33 G 5790279.83 5790279.94 5790280.05 0.2663 0.0866

Earth 11141-02-23 10:33 G 5790279.83 5790279.94 5790280.05 0.2657 0.0912 *

Saturn 11143-02-26 06:00 G 5791012.67 5791012.75 5791012.82 0.0285 0.0248

Saturn 11143-05-25 23:16 G 5791101.32 5791101.47 5791101.61 0.0284 0.0126

Saturn 11143-08-22 16:48 G 5791190.04 5791190.20 5791190.37 0.0284 0.0005

Earth 11143-08-26 14:38 G 5791194.02 5791194.11 5791194.21 0.2673 0.1917

Moon 11143-08-26 15:07 G 5791194.04 5791194.13 5791194.21 0.2680 0.2048 *

Saturn 11143-11-19 10:48 G 5791278.81 5791278.95 5791279.10 0.0284 0.0127

Saturn 11144-02-16 05:16 G 5791367.65 5791367.72 5791367.79 0.0284 0.0257

Jupiter 11145-06-25 05:02 G 5791862.57 5791862.71 5791862.85 0.0544 0.0026

Mars 11146-01-24 18:00 G 5792076.10 5792076.25 5792076.40 0.1604 0.0337

Mars 11148-11-11 17:02 G 5793098.13 5793098.21 5793098.29 0.1923 0.1405

Jupiter 11151-02-09 08:52 G 5793917.83 5793917.87 5793917.92 0.0486 0.0466

Jupiter 11151-05-10 02:09 G 5794007.43 5794007.59 5794007.75 0.0485 0.0112

Earth 11154-02-26 05:45 G 5795030.63 5795030.74 5795030.86 0.2658 0.0632

Moon 11154-02-26 06:14 G 5795030.65 5795030.76 5795030.87 0.2664 0.0627 *

Mars	11155-06-16 22:33 G	5795506.33	5795506.44	5795506.56	0.1601	0.1015	
Jupiter	11157-04-13 07:26 G	5796172.68	5796172.81	5796172.95	0.0543	0.0189	
Jupiter	11157-07-11 21:50 G	5796262.36	5796262.41	5796262.45	0.0544	0.0510	
Saturn	11157-12-30 13:40 G	5796434.03	5796434.07	5796434.12	0.0274	0.0260	
Saturn	11158-03-29 03:50 G	5796522.54	5796522.66	5796522.78	0.0274	0.0154	
Mars	11158-04-03 23:45 G	5796528.38	5796528.49	5796528.61	0.1928	0.0532	
Saturn	11158-06-25 17:31 G	5796611.09	5796611.23	5796611.38	0.0274	0.0050	
Saturn	11158-09-22 06:57 G	5796699.65	5796699.79	5796699.94	0.0274	0.0053	
Saturn	11158-12-19 20:09 G	5796788.22	5796788.34	5796788.46	0.0275	0.0154	
Saturn	11159-03-18 09:07 G	5796876.83	5796876.88	5796876.94	0.0275	0.0252	
Jupiter	11163-02-26 03:07 G	5798317.47	5798317.63	5798317.79	0.0485	0.0037	
Moon	11163-08-21 15:36 G	5798494.09	5798494.15	5798494.20	0.2680	0.2451	
Earth	11163-08-21 16:33 G	5798494.12	5798494.19	5798494.26	0.2676	0.2301	*
Venus	11164-07-03 23:31 G	5798811.42	5798811.48	5798811.55	0.3684	0.2977	
Mars	11166-10-13 09:50 G	5799642.81	5799642.91	5799643.02	0.1609	0.1170	
Earth	11167-03-01 00:57 G	5799781.47	5799781.54	5799781.60	0.2659	0.2142	
Moon	11167-03-01 01:40 G	5799781.51	5799781.57	5799781.62	0.2660	0.2317	*
Mars	11167-08-25 06:28 G	5799958.65	5799958.77	5799958.89	0.1932	0.0376	
Jupiter	11169-01-30 09:36 G	5800482.79	5800482.90	5800483.00	0.0543	0.0364	
Jupiter	11169-04-30 00:14 G	5800572.40	5800572.51	5800572.61	0.0544	0.0342	
Venus	11170-01-17 17:45 G	5800835.14	5800835.24	5800835.35	0.3684	0.1597	
Venus	11171-08-01 10:19 G	5801395.85	5801395.93	5801396.02	0.3686	0.2779	
Saturn	11172-10-11 22:33 G	5801833.31	5801833.44	5801833.57	0.0285	0.0170	
Saturn	11173-01-08 16:04 G	5801922.01	5801922.17	5801922.33	0.0284	0.0046	
Saturn	11173-04-07 10:04 G	5802010.76	5802010.92	5802011.07	0.0284	0.0082	
Saturn	11173-07-05 04:19 G	5802099.57	5802099.68	5802099.79	0.0284	0.0211	
Moon	11174-02-21 19:40 G	5802331.26	5802331.32	5802331.38	0.2660	0.2221	
Earth	11174-02-21 20:09 G	5802331.28	5802331.34	5802331.41	0.2655	0.2154	*
Jupiter	11174-12-15 04:33 G	5802627.54	5802627.69	5802627.84	0.0485	0.0178	
Jupiter	11175-03-14 22:48 G	5802717.37	5802717.45	5802717.54	0.0485	0.0414	

Uranus 11175-05-07 14:09 G 5802771.09 5802771.09 5802771.09 0.0133 0.0133

Venus 11175-08-03 11:45 G 5802858.88 5802858.99 5802859.11 0.3685 0.0288

Uranus 11175-08-03 17:45 G 5802859.18 5802859.24 5802859.32 0.0133 0.0116

Uranus 11175-10-30 21:36 G 5802947.30 5802947.40 5802947.50 0.0133 0.0098

Uranus 11176-01-27 01:11 G 5803035.44 5803035.55 5803035.67 0.0133 0.0080

Mars 11176-03-04 14:09 G 5803072.94 5803073.09 5803073.24 0.1606 0.0454

Uranus 11176-04-24 04:48 G 5803123.58 5803123.70 5803123.83 0.0133 0.0063

Uranus 11176-07-21 08:23 G 5803211.72 5803211.85 5803211.99 0.0134 0.0045

Moon 11176-08-23 18:00 G 5803245.11 5803245.25 5803245.39 0.2681 0.0085

Earth 11176-08-23 18:28 G 5803245.13 5803245.27 5803245.41 0.2675 0.0011 *

Uranus 11176-10-17 12:00 G 5803299.87 5803300.00 5803300.15 0.0134 0.0028

Uranus 11177-01-13 15:36 G 5803388.01 5803388.15 5803388.30 0.0134 0.0011

Mars 11177-01-14 12:43 G 5803388.94 5803389.03 5803389.12 0.1935 0.1317

Neptune 11177-02-12 08:09 G 5803417.84 5803417.84 5803417.86 0.0088 0.0088

Venus 11177-02-14 10:48 G 5803419.82 5803419.95 5803420.08 0.3686 0.0696

Uranus 11177-04-11 19:11 G 5803476.16 5803476.30 5803476.45 0.0134 0.0008

Neptune 11177-05-11 10:33 G 5803505.88 5803505.94 5803506.02 0.0088 0.0080

Uranus 11177-07-08 22:48 G 5803564.31 5803564.45 5803564.59 0.0134 0.0024

Neptune 11177-08-07 12:57 G 5803593.96 5803594.04 5803594.14 0.0088 0.0072

Uranus 11177-10-05 02:09 G 5803652.46 5803652.59 5803652.73 0.0134 0.0042

Neptune 11177-11-03 15:21 G 5803682.04 5803682.14 5803682.26 0.0088 0.0064

Uranus 11178-01-01 05:45 G 5803740.62 5803740.74 5803740.87 0.0134 0.0059

Neptune 11178-01-30 17:45 G 5803770.12 5803770.24 5803770.38 0.0088 0.0056

Uranus 11178-03-30 09:07 G 5803828.77 5803828.88 5803829.00 0.0134 0.0076

Neptune 11178-04-28 20:09 G 5803858.21 5803858.34 5803858.49 0.0088 0.0048

Uranus 11178-06-26 12:43 G 5803916.93 5803917.03 5803917.13 0.0134 0.0093

Neptune 11178-07-25 22:33 G 5803946.31 5803946.44 5803946.60 0.0088 0.0040

Uranus 11178-09-22 16:04 G 5804005.10 5804005.17 5804005.25 0.0134 0.0110

Neptune 11178-10-22 01:11 G 5804034.40 5804034.55 5804034.71 0.0088 0.0032

Uranus 11178-12-19 19:26 G 5804093.28 5804093.31 5804093.36 0.0134 0.0127

Neptune 11179-01-18 03:36 G 5804122.50 5804122.65 5804122.82 0.0088 0.0024

Neptune 11179-04-16 06:14 G 5804210.60 5804210.76 5804210.93 0.0088 0.0015

Neptune 11179-07-13 08:52 G 5804298.70 5804298.87 5804299.04 0.0088 0.0007

Neptune 11179-10-09 11:16 G 5804386.80 5804386.97 5804387.14 0.0088 0.0001

Neptune 11180-01-05 13:40 G 5804474.91 5804475.07 5804475.24 0.0088 0.0010

Neptune 11180-04-02 16:19 G 5804563.01 5804563.18 5804563.35 0.0088 0.0018

Neptune 11180-06-29 18:43 G 5804651.12 5804651.28 5804651.45 0.0088 0.0026

Neptune 11180-09-25 21:07 G 5804739.24 5804739.38 5804739.55 0.0088 0.0035

Neptune 11180-12-22 23:45 G 5804827.35 5804827.49 5804827.65 0.0088 0.0043

Jupiter 11181-02-16 01:26 G 5804882.42 5804882.56 5804882.69 0.0543 0.0153

Venus 11181-02-16 05:45 G 5804882.63 5804882.74 5804882.84 0.3685 0.1047 *

Neptune 11181-03-21 02:23 G 5804915.47 5804915.60 5804915.74 0.0088 0.0051

Neptune 11181-06-17 04:48 G 5805003.59 5805003.70 5805003.84 0.0088 0.0060

Neptune 11181-09-13 07:26 G 5805091.71 5805091.81 5805091.93 0.0088 0.0068

Neptune 11181-12-10 09:50 G 5805179.85 5805179.91 5805180.01 0.0088 0.0077

Neptune 11182-03-08 12:43 G 5805268.00 5805268.03 5805268.08 0.0088 0.0085

Venus 11182-08-31 11:45 G 5805443.87 5805443.99 5805444.11 0.3685 0.1511

Mars 11185-07-25 18:28 G 5806503.11 5806503.27 5806503.42 0.1604 0.0253

Venus 11186-09-01 23:16 G 5806906.38 5806906.47 5806906.56 0.3686 0.2296

Jupiter 11186-10-03 06:00 G 5806937.63 5806937.75 5806937.87 0.0486 0.0320

Jupiter 11186-12-31 23:45 G 5807027.35 5807027.49 5807027.63 0.0485 0.0266

Moon 11187-02-24 15:36 G 5807082.04 5807082.15 5807082.27 0.2664 0.0627

Earth 11187-02-24 15:36 G 5807082.04 5807082.15 5807082.27 0.2657 0.0583 *

Saturn 11187-08-16 06:28 G 5807254.66 5807254.77 5807254.89 0.0275 0.0176

Saturn 11187-11-12 20:23 G 5807343.21 5807343.35 5807343.50 0.0275 0.0071

Saturn 11188-02-09 10:04 G 5807431.77 5807431.92 5807432.07 0.0275 0.0033

Saturn 11188-05-07 23:16 G 5807520.35 5807520.47 5807520.60 0.0275 0.0134

Mars 11188-05-12 17:02 G 5807525.14 5807525.21 5807525.29 0.1924 0.1488

Saturn 11188-08-04 12:28 G 5807608.94 5807609.02 5807609.09 0.0275 0.0234

Earth 11189-08-26 20:38 G 5807996.30 5807996.36 5807996.42 0.2673 0.2403

Moon	11189-08-26 21:21 G	5807996.33	5807996.39	5807996.45	0.2679	0.2405	*
Venus	11192-03-17 16:33 G	5808930.16	5808930.19	5808930.22	0.3686	0.3512	
Jupiter	11192-12-05 03:07 G	5809192.49	5809192.63	5809192.77	0.0543	0.0030	
Mars	11194-12-15 23:02 G	5809933.34	5809933.46	5809933.59	0.1601	0.0929	
Mars	11197-10-03 00:00 G	5810955.39	5810955.50	5810955.62	0.1928	0.0622	
Jupiter	11198-07-22 07:11 G	5811247.76	5811247.80	5811247.85	0.0486	0.0463	
Jupiter	11198-10-20 00:28 G	5811337.36	5811337.52	5811337.68	0.0485	0.0115	
Earth	11200-02-27 10:48 G	5811832.84	5811832.95	5811833.06	0.2658	0.0952	
Moon	11200-02-27 11:16 G	5811832.87	5811832.97	5811833.08	0.2662	0.1096	*
Saturn	11202-03-01 00:14 G	5812565.40	5812565.51	5812565.63	0.0284	0.0197	
Saturn	11202-05-28 17:45 G	5812654.08	5812654.24	5812654.40	0.0284	0.0073	
Saturn	11202-08-25 11:31 G	5812742.82	5812742.98	5812743.14	0.0284	0.0053	
Saturn	11202-11-22 05:45 G	5812831.61	5812831.74	5812831.86	0.0284	0.0181	
Mars	11204-05-07 04:04 G	5813363.66	5813363.67	5813363.69	0.1599	0.1585	
Jupiter	11204-09-23 05:16 G	5813502.59	5813502.72	5813502.85	0.0543	0.0198	
Jupiter	11204-12-21 19:40 G	5813592.27	5813592.32	5813592.37	0.0544	0.0501	
Mars	11206-04-13 10:19 G	5814069.84	5814069.93	5814070.03	0.1609	0.1265	
Pluto	11207-02-01 03:50 G	5814363.59	5814363.66	5814363.76	0.0073	0.0065	
Mars	11207-02-23 06:28 G	5814385.66	5814385.77	5814385.89	0.1932	0.0298	
Pluto	11207-04-30 06:00 G	5814451.63	5814451.75	5814451.90	0.0073	0.0051	
Pluto	11207-07-27 08:23 G	5814539.70	5814539.85	5814540.02	0.0073	0.0037	
Pluto	11207-10-23 10:48 G	5814627.77	5814627.95	5814628.13	0.0073	0.0023	
Pluto	11208-01-19 12:57 G	5814715.86	5814716.04	5814716.23	0.0073	0.0010	
Pluto	11208-04-16 15:07 G	5814803.95	5814804.13	5814804.32	0.0073	0.0005	
Pluto	11208-07-13 17:16 G	5814892.04	5814892.22	5814892.41	0.0072	0.0018	
Pluto	11208-10-09 19:40 G	5814980.15	5814980.32	5814980.49	0.0072	0.0031	
Pluto	11209-01-05 21:21 G	5815068.26	5815068.39	5815068.55	0.0072	0.0044	
Pluto	11209-04-03 23:31 G	5815156.38	5815156.48	5815156.61	0.0072	0.0057	
Pluto	11209-07-01 01:40 G	5815244.54	5815244.57	5815244.62	0.0072	0.0070	
Moon	11209-08-21 21:36 G	5815296.31	5815296.40	5815296.49	0.2681	0.2000	

Earth 11209-08-21 22:33 G 5815296.34 5815296.44 5815296.54 0.2676 0.1844 *

Jupiter 11210-08-08 01:40 G 5815647.41 5815647.57 5815647.74 0.0485 0.0031

Earth 11213-03-01 05:45 G 5816583.70 5816583.74 5816583.78 0.2659 0.2456

Moon 11213-03-01 06:43 G 5816583.74 5816583.78 5816583.81 0.2660 0.2501 *

Mars 11215-09-03 14:38 G 5817499.96 5817500.11 5817500.25 0.1606 0.0547

Jupiter 11216-07-12 07:26 G 5817812.71 5817812.81 5817812.92 0.0543 0.0368

Mars 11216-07-15 12:57 G 5817815.95 5817816.04 5817816.14 0.1935 0.1215

Uranus 11216-08-15 23:16 G 5817847.43 5817847.47 5817847.53 0.0145 0.0138

Jupiter 11216-10-09 22:19 G 5817902.32 5817902.43 5817902.54 0.0544 0.0339

Uranus 11216-11-12 06:00 G 5817935.65 5817935.75 5817935.86 0.0145 0.0112

Saturn 11217-01-02 07:11 G 5817986.71 5817986.80 5817986.90 0.0274 0.0213

Uranus 11217-02-08 12:43 G 5818023.89 5818024.03 5818024.17 0.0145 0.0085

Saturn 11217-03-31 21:07 G 5818075.25 5818075.38 5818075.52 0.0274 0.0108

Uranus 11217-05-07 19:26 G 5818112.15 5818112.31 5818112.47 0.0145 0.0058

Saturn 11217-06-28 10:48 G 5818163.81 5818163.95 5818164.10 0.0274 0.0008

Uranus 11217-08-04 02:09 G 5818200.42 5818200.59 5818200.76 0.0145 0.0031

Saturn 11217-09-25 00:14 G 5818252.37 5818252.51 5818252.65 0.0275 0.0098

Uranus 11217-10-31 09:07 G 5818288.70 5818288.88 5818289.05 0.0145 0.0005

Saturn 11217-12-22 13:11 G 5818340.96 5818341.05 5818341.16 0.0275 0.0198

Uranus 11218-01-27 15:50 G 5818376.99 5818377.16 5818377.34 0.0145 0.0023

Uranus 11218-04-25 22:48 G 5818465.29 5818465.45 5818465.62 0.0145 0.0051

Uranus 11218-07-23 05:31 G 5818553.60 5818553.73 5818553.89 0.0145 0.0079

Uranus 11218-10-19 12:43 G 5818641.92 5818642.03 5818642.16 0.0145 0.0106

Uranus 11219-01-15 19:55 G 5818730.27 5818730.33 5818730.40 0.0145 0.0134

Moon 11220-02-23 00:57 G 5819133.46 5819133.54 5819133.62 0.2661 0.1873

Earth 11220-02-23 01:26 G 5819133.47 5819133.56 5819133.64 0.2656 0.1817 *

Venus 11221-02-07 21:50 G 5819484.33 5819484.41 5819484.49 0.3684 0.2541

Jupiter 11222-05-27 02:38 G 5819957.46 5819957.61 5819957.77 0.0485 0.0177

Jupiter 11222-08-24 20:52 G 5820047.29 5820047.37 5820047.46 0.0484 0.0415

Moon 11222-08-25 00:00 G 5820047.36 5820047.50 5820047.64 0.2681 0.0394 *

Earth 11222-08-25 00:28 G 5820047.38 5820047.52 5820047.66 0.2674 0.0481 *

Mars 11225-01-23 18:57 G 5820930.13 5820930.29 5820930.44 0.1604 0.0156

Venus 11226-08-24 16:04 G 5821508.06 5821508.17 5821508.27 0.3684 0.1172

Mars 11227-11-11 17:16 G 5821952.15 5821952.22 5821952.28 0.1924 0.1578

Venus 11228-03-07 10:19 G 5822068.82 5822068.93 5822069.03 0.3686 0.2154

Jupiter 11228-07-29 00:43 G 5822212.39 5822212.53 5822212.66 0.0544 0.0170

Saturn 11231-07-18 23:31 G 5823297.41 5823297.48 5823297.57 0.0285 0.0241

Saturn 11231-10-15 17:02 G 5823386.06 5823386.21 5823386.36 0.0284 0.0118

Saturn 11232-01-12 10:48 G 5823474.78 5823474.95 5823475.11 0.0284 0.0010

Venus 11232-03-09 10:04 G 5823531.80 5823531.92 5823532.03 0.3685 0.0207

Saturn 11232-04-10 04:48 G 5823563.55 5823563.70 5823563.84 0.0284 0.0135

Saturn 11232-07-07 23:16 G 5823652.41 5823652.47 5823652.52 0.0284 0.0265

Earth 11233-02-24 20:38 G 5823884.24 5823884.36 5823884.48 0.2657 0.0258

Moon 11233-02-24 20:52 G 5823884.25 5823884.37 5823884.48 0.2664 0.0229 *

Venus 11233-09-21 10:48 G 5824092.81 5824092.95 5824093.08 0.3685 0.0062

Jupiter 11234-03-15 04:04 G 5824267.56 5824267.67 5824267.80 0.0486 0.0318

Jupiter 11234-06-12 21:50 G 5824357.28 5824357.41 5824357.55 0.0485 0.0269

Mars 11234-06-15 23:31 G 5824360.35 5824360.48 5824360.61 0.1601 0.0837

Mars 11237-04-03 00:00 G 5825382.39 5825382.50 5825382.61 0.1928 0.0702

Venus 11237-09-23 03:50 G 5825555.55 5825555.66 5825555.76 0.3686 0.1443

Venus 11239-04-07 12:00 G 5826116.89 5826117.00 5826117.10 0.3685 0.2206

Jupiter 11240-05-17 01:40 G 5826522.43 5826522.57 5826522.71 0.0543 0.0024

Venus 11243-04-08 21:21 G 5827579.31 5827579.39 5827579.46 0.3686 0.2681

Mars 11243-11-06 04:33 G 5827790.64 5827790.69 5827790.74 0.1599 0.1502

Mars 11245-10-12 10:48 G 5828496.87 5828496.95 5828497.04 0.1609 0.1360

Jupiter 11246-01-01 05:31 G 5828577.69 5828577.73 5828577.79 0.0486 0.0459

Earth 11246-02-27 15:50 G 5828635.06 5828635.16 5828635.26 0.2658 0.1274

Moon 11246-02-27 16:33 G 5828635.09 5828635.19 5828635.29 0.2661 0.1327 *

Jupiter 11246-03-31 23:02 G 5828667.30 5828667.46 5828667.62 0.0485 0.0121

Saturn 11246-05-22 10:04 G 5828718.84 5828718.92 5828719.00 0.0275 0.0235

Saturn 11246-08-19 00:00 G 5828807.37 5828807.50 5828807.63 0.0275 0.0129

Mars 11246-08-24 06:43 G 5828812.66 5828812.78 5828812.90 0.1932 0.0197

Saturn 11246-11-15 13:55 G 5828895.93 5828896.08 5828896.22 0.0275 0.0026

Saturn 11247-02-12 03:21 G 5828984.50 5828984.64 5828984.78 0.0275 0.0078

Saturn 11247-05-11 16:33 G 5829073.08 5829073.19 5829073.30 0.0276 0.0179

Jupiter 11252-03-05 03:21 G 5830832.51 5830832.64 5830832.77 0.0543 0.0202

Jupiter 11252-06-02 17:31 G 5830922.18 5830922.23 5830922.29 0.0544 0.0495

Mars 11255-03-04 14:52 G 5831926.98 5831927.12 5831927.27 0.1606 0.0633

Moon 11255-08-23 03:21 G 5832098.52 5832098.64 5832098.76 0.2681 0.1480

Earth 11255-08-23 04:19 G 5832098.56 5832098.68 5832098.80 0.2676 0.1390 *

Mars 11256-01-14 13:11 G 5832242.95 5832243.05 5832243.15 0.1935 0.1124

Jupiter 11258-01-17 23:45 G 5832977.33 5832977.49 5832977.66 0.0485 0.0029

Uranus 11259-05-27 22:04 G 5833472.38 5833472.42 5833472.47 0.0133 0.0126

Uranus 11259-08-24 01:40 G 5833560.49 5833560.57 5833560.66 0.0133 0.0108

Neptune 11259-11-17 21:36 G 5833646.38 5833646.40 5833646.45 0.0089 0.0087

Uranus 11259-11-20 05:16 G 5833648.62 5833648.72 5833648.83 0.0133 0.0091

Neptune 11260-02-13 23:45 G 5833734.42 5833734.49 5833734.56 0.0089 0.0079

Uranus 11260-02-16 09:07 G 5833736.76 5833736.88 5833737.00 0.0133 0.0073

Neptune 11260-05-12 01:40 G 5833822.48 5833822.57 5833822.66 0.0089 0.0071

Uranus 11260-05-14 12:43 G 5833824.90 5833825.03 5833825.17 0.0133 0.0055

Neptune 11260-08-08 03:21 G 5833910.55 5833910.64 5833910.76 0.0089 0.0063

Uranus 11260-08-10 16:19 G 5833913.05 5833913.18 5833913.32 0.0134 0.0038

Neptune 11260-11-04 05:16 G 5833998.62 5833998.72 5833998.85 0.0089 0.0056

Uranus 11260-11-06 19:55 G 5834001.19 5834001.33 5834001.48 0.0134 0.0021

Saturn 11260-12-05 02:09 G 5834029.53 5834029.59 5834029.65 0.0284 0.0263

Neptune 11261-01-31 07:26 G 5834086.68 5834086.81 5834086.94 0.0089 0.0048

Uranus 11261-02-02 23:31 G 5834089.34 5834089.48 5834089.63 0.0134 0.0005

Saturn 11261-03-03 19:11 G 5834118.17 5834118.30 5834118.44 0.0284 0.0142

Neptune 11261-04-29 09:21 G 5834174.76 5834174.89 5834175.02 0.0089 0.0040

Uranus 11261-05-02 03:07 G 5834177.49 5834177.63 5834177.77 0.0134 0.0015

Saturn 11261-05-31 12:57 G 5834206.87 5834207.04 5834207.20 0.0284 0.0018

Neptune 11261-07-26 11:02 G 5834262.83 5834262.96 5834263.11 0.0089 0.0032

Uranus 11261-07-29 06:43 G 5834265.64 5834265.78 5834265.92 0.0134 0.0032

Saturn 11261-08-28 06:43 G 5834295.63 5834295.78 5834295.93 0.0284 0.0110

Neptune 11261-10-22 12:57 G 5834350.90 5834351.04 5834351.19 0.0089 0.0025

Uranus 11261-10-25 10:19 G 5834353.80 5834353.93 5834354.06 0.0134 0.0049

Saturn 11261-11-25 00:57 G 5834384.46 5834384.54 5834384.63 0.0284 0.0239

Neptune 11262-01-18 14:52 G 5834438.98 5834439.12 5834439.27 0.0089 0.0017

Uranus 11262-01-21 13:40 G 5834441.95 5834442.07 5834442.19 0.0134 0.0066

Neptune 11262-04-16 16:48 G 5834527.05 5834527.20 5834527.35 0.0089 0.0009

Uranus 11262-04-19 17:16 G 5834530.11 5834530.22 5834530.33 0.0134 0.0083

Neptune 11262-07-13 18:28 G 5834615.13 5834615.27 5834615.42 0.0089 0.0003

Uranus 11262-07-16 20:38 G 5834618.27 5834618.36 5834618.45 0.0134 0.0100

Neptune 11262-10-09 20:23 G 5834703.20 5834703.35 5834703.50 0.0089 0.0006

Uranus 11262-10-13 00:00 G 5834706.44 5834706.50 5834706.57 0.0134 0.0117

Neptune 11263-01-05 22:19 G 5834791.28 5834791.43 5834791.57 0.0089 0.0014

Uranus 11263-01-09 03:36 G 5834794.65 5834794.65 5834794.65 0.0134 0.0134

Neptune 11263-04-04 00:00 G 5834879.36 5834879.50 5834879.65 0.0089 0.0021

Neptune 11263-07-01 01:55 G 5834967.44 5834967.58 5834967.72 0.0089 0.0029

Neptune 11263-09-27 03:36 G 5835055.52 5835055.65 5835055.79 0.0089 0.0036

Jupiter 11263-12-23 05:02 G 5835142.62 5835142.71 5835142.82 0.0543 0.0381

Neptune 11263-12-24 05:16 G 5835143.60 5835143.72 5835143.85 0.0089 0.0044

Neptune 11264-03-21 06:57 G 5835231.68 5835231.79 5835231.92 0.0089 0.0052

Jupiter 11264-03-21 19:55 G 5835232.22 5835232.33 5835232.44 0.0544 0.0328

Neptune 11264-06-17 08:52 G 5835319.77 5835319.87 5835319.98 0.0089 0.0059

Mars 11264-07-24 19:26 G 5835357.15 5835357.31 5835357.47 0.1604 0.0063

Neptune 11264-09-13 10:48 G 5835407.85 5835407.95 5835408.05 0.0089 0.0066

Neptune 11264-12-10 12:14 G 5835495.94 5835496.01 5835496.10 0.0089 0.0074

Neptune 11265-03-08 14:09 G 5835584.04 5835584.09 5835584.16 0.0089 0.0081

Neptune 11265-06-04 16:04 G 5835672.15 5835672.17 5835672.19 0.0089 0.0088

Moon	11266-02-23 06:14 G	5835935.66	5835935.76	5835935.85	0.2662	0.1565
Earth	11266-02-23 06:28 G	5835935.67	5835935.77	5835935.87	0.2656	0.1485 *
Mars	11267-05-12 17:16 G	5836379.17	5836379.22	5836379.28	0.1923	0.1670
Moon	11268-08-25 06:14 G	5836849.63	5836849.76	5836849.89	0.2681	0.0954
Earth	11268-08-25 06:14 G	5836849.63	5836849.76	5836849.89	0.2674	0.0949 *
Jupiter	11269-11-06 01:11 G	5837287.40	5837287.55	5837287.70	0.0485	0.0171
Jupiter	11270-02-03 19:11 G	5837377.22	5837377.30	5837377.39	0.0484	0.0420
Venus	11272-03-01 01:40 G	5838133.54	5838133.57	5838133.60	0.3684	0.3513
Mars	11273-12-15 00:00 G	5838787.37	5838787.50	5838787.64	0.1601	0.0748
Saturn	11275-10-09 11:02 G	5839450.94	5839450.96	5839450.98	0.0274	0.0270
Saturn	11276-01-06 00:57 G	5839539.43	5839539.54	5839539.67	0.0274	0.0165
Jupiter	11276-01-08 22:33 G	5839542.31	5839542.44	5839542.57	0.0544	0.0163
Saturn	11276-04-03 14:52 G	5839627.98	5839628.12	5839628.27	0.0274	0.0060
Saturn	11276-07-01 04:33 G	5839716.54	5839716.69	5839716.83	0.0275	0.0044
Saturn	11276-09-27 17:45 G	5839805.12	5839805.24	5839805.36	0.0275	0.0144
Mars	11276-10-02 00:14 G	5839809.40	5839809.51	5839809.62	0.1928	0.0793
Saturn	11276-12-25 06:43 G	5839893.72	5839893.78	5839893.85	0.0275	0.0243
Venus	11277-09-14 20:09 G	5840157.24	5840157.34	5840157.43	0.3684	0.2114
Earth	11279-02-26 01:40 G	5840686.46	5840686.57	5840686.69	0.2657	0.0101
Moon	11279-02-26 01:55 G	5840686.47	5840686.58	5840686.70	0.2663	0.0110 *
Venus	11279-03-29 09:50 G	5840717.88	5840717.91	5840717.95	0.3687	0.3551
Jupiter	11281-08-25 02:09 G	5841597.48	5841597.59	5841597.72	0.0485	0.0317
Jupiter	11281-11-22 19:55 G	5841687.19	5841687.33	5841687.47	0.0485	0.0268
Venus	11283-03-31 14:09 G	5842180.98	5842181.09	5842181.20	0.3685	0.0756
Mars	11283-05-07 05:02 G	5842217.64	5842217.71	5842217.78	0.1599	0.1410
Venus	11284-10-12 10:04 G	5842741.80	5842741.92	5842742.04	0.3686	0.1526
Mars	11285-04-12 11:31 G	5842923.91	5842923.98	5842924.04	0.1609	0.1456
Mars	11286-02-22 06:57 G	5843239.66	5843239.79	5843239.91	0.1931	0.0128
Jupiter	11287-10-28 00:43 G	5843852.39	5843852.53	5843852.67	0.0543	0.0010
Venus	11288-10-14 08:09 G	5844204.73	5844204.84	5844204.95	0.3685	0.0572

Venus 11290-04-28 10:48 G 5844765.81 5844765.95 5844766.08 0.3685 0.0627

Saturn 11290-07-21 18:43 G 5844850.16 5844850.28 5844850.40 0.0284 0.0185

Saturn 11290-10-18 12:00 G 5844938.85 5844939.00 5844939.16 0.0284 0.0062

Saturn 11291-01-15 05:45 G 5845027.59 5845027.74 5845027.90 0.0284 0.0064

Saturn 11291-04-14 00:00 G 5845116.38 5845116.50 5845116.62 0.0284 0.0192

Earth 11292-02-28 20:52 G 5845437.28 5845437.37 5845437.46 0.2658 0.1597

Moon 11292-02-28 21:36 G 5845437.31 5845437.40 5845437.49 0.2661 0.1743 *

Jupiter 11293-06-13 03:50 G 5845907.61 5845907.66 5845907.71 0.0486 0.0457

Jupiter 11293-09-10 21:07 G 5845997.22 5845997.38 5845997.54 0.0485 0.0122

Venus 11294-04-30 01:40 G 5846228.48 5846228.57 5846228.67 0.3686 0.1828

Mars 11294-09-02 15:36 G 5846354.01 5846354.15 5846354.29 0.1606 0.0734

Mars 11295-07-15 13:11 G 5846669.95 5846670.05 5846670.15 0.1935 0.1042

Venus 11295-11-12 12:00 G 5846789.92 5846790.00 5846790.08 0.3685 0.2901

Jupiter 11299-08-16 01:55 G 5848162.45 5848162.58 5848162.71 0.0542 0.0198

Jupiter 11299-11-13 16:04 G 5848252.12 5848252.17 5848252.23 0.0543 0.0498

Venus 11299-11-13 19:11 G 5848252.24 5848252.30 5848252.36 0.3686 0.3049

Uranus 11300-09-06 07:11 G 5848548.73 5848548.80 5848548.88 0.0145 0.0130

Uranus 11300-12-03 13:40 G 5848636.96 5848637.07 5848637.20 0.0145 0.0103

Uranus 11301-03-01 20:09 G 5848725.21 5848725.34 5848725.50 0.0145 0.0078

Uranus 11301-05-29 03:07 G 5848813.47 5848813.63 5848813.80 0.0145 0.0050

Moon 11301-08-24 09:21 G 5848900.76 5848900.89 5848901.02 0.2681 0.1096

Earth 11301-08-24 10:19 G 5848900.80 5848900.93 5848901.06 0.2676 0.0925 *

Uranus 11301-08-25 10:04 G 5848901.75 5848901.92 5848902.09 0.0145 0.0023

Uranus 11301-11-21 16:48 G 5848990.03 5848990.20 5848990.38 0.0145 0.0004

Uranus 11302-02-17 23:45 G 5849078.32 5849078.49 5849078.66 0.0145 0.0032

Uranus 11302-05-17 06:28 G 5849166.62 5849166.77 5849166.94 0.0145 0.0060

Uranus 11302-08-13 13:40 G 5849254.93 5849255.07 5849255.21 0.0145 0.0087

Uranus 11302-11-09 20:23 G 5849343.26 5849343.35 5849343.47 0.0145 0.0115

Uranus 11303-02-06 03:36 G 5849431.63 5849431.65 5849431.68 0.0145 0.0143

Mars 11304-01-24 19:55 G 5849784.17 5849784.33 5849784.48 0.1604 0.0053

Saturn 11305-05-26 03:36 G 5850271.55 5850271.65 5850271.76 0.0275 0.0188

Jupiter 11305-06-30 22:04 G 5850307.26 5850307.42 5850307.58 0.0485 0.0026

Saturn 11305-08-22 17:45 G 5850360.09 5850360.24 5850360.38 0.0275 0.0082

Saturn 11305-11-19 07:11 G 5850448.66 5850448.80 5850448.95 0.0275 0.0024

Saturn 11306-02-15 20:38 G 5850537.23 5850537.36 5850537.49 0.0276 0.0124

Saturn 11306-05-15 09:50 G 5850625.83 5850625.91 5850625.99 0.0276 0.0224

Mars 11306-11-11 17:16 G 5850806.18 5850806.22 5850806.27 0.1924 0.1747

Jupiter 11311-06-05 03:21 G 5852472.54 5852472.64 5852472.74 0.0542 0.0383

Jupiter 11311-09-02 18:00 G 5852562.14 5852562.25 5852562.36 0.0543 0.0323

Moon 11312-02-25 11:16 G 5852737.86 5852737.97 5852738.07 0.2663 0.1145

Earth 11312-02-25 11:31 G 5852737.87 5852737.98 5852738.08 0.2656 0.1154 *

Mars 11313-06-16 00:28 G 5853214.38 5853214.52 5853214.66 0.1601 0.0659

Earth 11314-08-27 12:14 G 5853651.89 5853652.01 5853652.13 0.2674 0.1419

Moon 11314-08-27 12:28 G 5853651.90 5853652.02 5853652.13 0.2681 0.1477 *

Mars 11316-04-03 00:28 G 5854236.41 5854236.52 5854236.62 0.1928 0.0889

Jupiter 11317-04-18 23:02 G 5854617.31 5854617.46 5854617.61 0.0485 0.0173

Jupiter 11317-07-17 17:16 G 5854707.14 5854707.22 5854707.30 0.0485 0.0419

Saturn 11319-12-09 21:36 G 5855582.29 5855582.40 5855582.51 0.0284 0.0206

Saturn 11320-03-07 14:52 G 5855670.96 5855671.12 5855671.27 0.0284 0.0083

Saturn 11320-06-04 08:23 G 5855759.69 5855759.85 5855760.02 0.0284 0.0043

Saturn 11320-09-01 02:38 G 5855848.48 5855848.61 5855848.74 0.0284 0.0170

Mars 11322-11-06 05:31 G 5856644.64 5856644.73 5856644.81 0.1599 0.1324

Jupiter 11323-06-21 20:09 G 5856872.21 5856872.34 5856872.47 0.0544 0.0150

Mars 11324-10-12 12:00 G 5857350.96 5857351.00 5857351.04 0.1610 0.1553

Earth 11325-02-27 06:43 G 5857488.67 5857488.78 5857488.90 0.2657 0.0399

Moon 11325-02-27 07:11 G 5857488.68 5857488.80 5857488.91 0.2663 0.0435 *

Mars 11325-08-24 06:57 G 5857666.67 5857666.79 5857666.91 0.1931 0.0020

Venus 11328-10-07 00:00 G 5858806.44 5858806.50 5858806.56 0.3684 0.3076

Jupiter 11329-02-05 00:28 G 5858927.40 5858927.52 5858927.65 0.0486 0.0314

Jupiter 11329-05-05 18:14 G 5859017.12 5859017.26 5859017.40 0.0485 0.0271

Mars 11334-03-04 16:04 G 5860781.03 5860781.17 5860781.30 0.1606 0.0826

Venus 11334-04-22 18:14 G 5860830.16 5860830.26 5860830.36 0.3684 0.1687

Saturn 11334-10-13 05:02 G 5861003.63 5861003.71 5861003.80 0.0274 0.0220

Saturn 11335-01-09 19:11 G 5861092.16 5861092.30 5861092.43 0.0274 0.0115

Mars 11335-01-14 13:26 G 5861096.95 5861097.06 5861097.16 0.1935 0.0947

Saturn 11335-04-08 08:52 G 5861180.72 5861180.87 5861181.01 0.0275 0.0012

Jupiter 11335-04-09 22:33 G 5861182.30 5861182.44 5861182.58 0.0543 0.0017

Saturn 11335-07-05 22:04 G 5861269.29 5861269.42 5861269.56 0.0275 0.0092

Saturn 11335-10-02 11:31 G 5861357.87 5861357.98 5861358.08 0.0275 0.0191

Venus 11335-11-04 09:36 G 5861390.82 5861390.90 5861390.98 0.3686 0.2948

Earth 11338-03-02 01:55 G 5862239.50 5862239.58 5862239.66 0.2658 0.1917

Moon 11338-03-02 02:38 G 5862239.54 5862239.61 5862239.69 0.2661 0.2000 *

Venus 11339-11-06 12:14 G 5862853.90 5862854.01 5862854.12 0.3685 0.0351

Jupiter 11340-11-24 01:40 G 5863237.53 5863237.57 5863237.63 0.0486 0.0458

Jupiter 11341-02-21 18:57 G 5863327.13 5863327.29 5863327.45 0.0485 0.0120

Venus 11341-05-20 09:50 G 5863414.78 5863414.91 5863415.04 0.3686 0.0901

Neptune 11341-11-10 06:14 G 5863588.75 5863588.76 5863588.79 0.0088 0.0087

Neptune 11342-02-06 08:38 G 5863676.80 5863676.86 5863676.94 0.0088 0.0079

Neptune 11342-05-05 11:02 G 5863764.87 5863764.96 5863765.07 0.0088 0.0071

Neptune 11342-08-01 13:26 G 5863852.95 5863853.06 5863853.18 0.0088 0.0063

Neptune 11342-10-28 15:50 G 5863941.04 5863941.16 5863941.30 0.0088 0.0055

Neptune 11343-01-24 18:14 G 5864029.13 5864029.26 5864029.41 0.0088 0.0047

Neptune 11343-04-22 20:38 G 5864117.22 5864117.36 5864117.52 0.0088 0.0039

Uranus 11343-06-18 06:00 G 5864173.69 5864173.75 5864173.82 0.0133 0.0118

Neptune 11343-07-19 23:16 G 5864205.32 5864205.47 5864205.63 0.0088 0.0031

Mars 11343-07-25 20:23 G 5864211.19 5864211.35 5864211.51 0.1604 0.0122

Uranus 11343-09-14 09:36 G 5864261.81 5864261.90 5864262.00 0.0133 0.0100

Neptune 11343-10-16 01:40 G 5864293.41 5864293.57 5864293.74 0.0088 0.0023

Uranus 11343-12-11 13:26 G 5864349.95 5864350.06 5864350.17 0.0133 0.0082

Neptune 11344-01-12 04:04 G 5864381.51 5864381.67 5864381.85 0.0088 0.0015

Uranus 11344-03-08 17:02 G 5864438.09 5864438.21 5864438.34 0.0133 0.0065

Neptune 11344-04-09 06:43 G 5864469.61 5864469.78 5864469.95 0.0088 0.0006

Uranus 11344-06-04 20:38 G 5864526.23 5864526.36 5864526.50 0.0133 0.0047

Mars 11344-06-05 19:26 G 5864527.29 5864527.31 5864527.33 0.1938 0.1900

Neptune 11344-07-06 09:21 G 5864557.72 5864557.89 5864558.06 0.0088 0.0003

Uranus 11344-09-01 00:28 G 5864614.38 5864614.52 5864614.66 0.0133 0.0030

Neptune 11344-10-02 11:45 G 5864645.82 5864645.99 5864646.16 0.0088 0.0010

Uranus 11344-11-28 04:04 G 5864702.52 5864702.67 5864702.81 0.0134 0.0013

Neptune 11344-12-29 14:09 G 5864733.93 5864734.09 5864734.26 0.0088 0.0019

Moon 11345-02-22 20:23 G 5864789.31 5864789.35 5864789.40 0.2659 0.2432

Earth 11345-02-22 21:07 G 5864789.33 5864789.38 5864789.43 0.2655 0.2406 *

Uranus 11345-02-24 07:40 G 5864790.67 5864790.82 5864790.96 0.0134 0.0007

Neptune 11345-03-27 16:48 G 5864822.04 5864822.20 5864822.36 0.0088 0.0027

Venus 11345-05-22 06:00 G 5864877.65 5864877.75 5864877.86 0.3686 0.0967

Uranus 11345-05-23 11:02 G 5864878.82 5864878.96 5864879.10 0.0134 0.0023

Neptune 11345-06-23 19:11 G 5864910.15 5864910.30 5864910.46 0.0088 0.0035

Uranus 11345-08-19 14:38 G 5864966.98 5864967.11 5864967.25 0.0134 0.0040

Neptune 11345-09-19 21:36 G 5864998.27 5864998.40 5864998.56 0.0088 0.0044

Uranus 11345-11-15 18:14 G 5865055.13 5865055.26 5865055.39 0.0134 0.0057

Neptune 11345-12-17 00:14 G 5865086.38 5865086.51 5865086.66 0.0088 0.0052

Uranus 11346-02-11 21:36 G 5865143.29 5865143.40 5865143.52 0.0134 0.0074

Neptune 11346-03-15 03:07 G 5865174.50 5865174.63 5865174.75 0.0088 0.0060

Uranus 11346-05-11 01:11 G 5865231.45 5865231.55 5865231.65 0.0134 0.0091

Mars 11346-05-12 17:31 G 5865233.20 5865233.23 5865233.26 0.1923 0.1843

Neptune 11346-06-11 05:16 G 5865262.63 5865262.72 5865262.84 0.0088 0.0069

Uranus 11346-08-07 04:33 G 5865319.61 5865319.69 5865319.77 0.0134 0.0108

Neptune 11346-09-07 08:09 G 5865350.76 5865350.84 5865350.92 0.0088 0.0077

Uranus 11346-11-03 07:55 G 5865407.79 5865407.83 5865407.89 0.0134 0.0125

Venus 11346-12-04 10:48 G 5865438.82 5865438.95 5865439.07 0.3685 0.1293

Neptune 11346-12-04 10:19 G 5865438.92 5865438.93 5865438.99 0.0088 0.0086 *

Jupiter	11347-01-27 00:43 G	5865492.40	5865492.53	5865492.66	0.0543	0.0191
Jupiter	11347-04-26 14:52 G	5865582.08	5865582.12	5865582.17	0.0544	0.0508
Moon	11347-08-25 15:36 G	5865703.01	5865703.15	5865703.28	0.2681	0.0482
Earth	11347-08-25 16:04 G	5865703.03	5865703.17	5865703.31	0.2676	0.0465 *
Saturn	11349-04-27 20:38 G	5866314.29	5866314.36	5866314.44	0.0284	0.0250
Saturn	11349-07-25 13:55 G	5866402.94	5866403.08	5866403.23	0.0284	0.0128
Saturn	11349-10-22 07:40 G	5866491.65	5866491.82	5866491.98	0.0284	0.0009
Saturn	11350-01-19 01:26 G	5866580.42	5866580.56	5866580.71	0.0284	0.0124
Saturn	11350-04-17 19:55 G	5866669.26	5866669.33	5866669.40	0.0284	0.0253
Venus	11350-12-05 23:45 G	5866901.40	5866901.49	5866901.57	0.3686	0.2205
Venus	11352-06-19 12:14 G	5867462.98	5867463.01	5867463.03	0.3684	0.3593
Jupiter	11352-12-10 20:09 G	5867637.18	5867637.34	5867637.50	0.0485	0.0025
Mars	11352-12-15 00:57 G	5867641.40	5867641.54	5867641.69	0.1601	0.0569
Mars	11355-10-03 00:14 G	5868663.41	5868663.51	5868663.62	0.1928	0.0966
Venus	11356-06-20 17:02 G	5868925.18	5868925.21	5868925.25	0.3687	0.3426
Moon	11358-02-25 16:19 G	5869540.07	5869540.18	5869540.29	0.2663	0.0908
Earth	11358-02-25 16:33 G	5869540.08	5869540.19	5869540.30	0.2656	0.0823 *
Jupiter	11358-11-15 01:55 G	5869802.48	5869802.58	5869802.68	0.0542	0.0379
Jupiter	11359-02-12 16:33 G	5869892.08	5869892.19	5869892.30	0.0543	0.0326
Earth	11360-08-27 18:14 G	5870454.16	5870454.26	5870454.36	0.2674	0.1900
Moon	11360-08-27 18:28 G	5870454.17	5870454.27	5870454.37	0.2681	0.1898 *
Mars	11362-05-07 05:45 G	5871071.65	5871071.74	5871071.84	0.1599	0.1242
Saturn	11364-03-01 07:26 G	5871735.75	5871735.81	5871735.88	0.0275	0.0245
Saturn	11364-05-28 21:21 G	5871824.27	5871824.39	5871824.53	0.0275	0.0140
Saturn	11364-08-25 11:16 G	5871912.83	5871912.97	5871913.12	0.0275	0.0035
Jupiter	11364-09-28 21:07 G	5871947.23	5871947.38	5871947.54	0.0486	0.0173
Saturn	11364-11-22 00:57 G	5872001.40	5872001.54	5872001.68	0.0276	0.0069
Jupiter	11364-12-27 15:21 G	5872037.06	5872037.14	5872037.22	0.0485	0.0420
Saturn	11365-02-18 14:09 G	5872089.98	5872090.09	5872090.21	0.0276	0.0170
Mars	11365-02-22 06:57 G	5872093.67	5872093.79	5872093.91	0.1932	0.0083

Saturn	11365-05-18 03:07 G	5872178.61	5872178.63	5872178.66	0.0276	0.0269	
Pluto	11368-01-28 09:36 G	5873163.85	5873163.90	5873163.97	0.0071	0.0063	
Pluto	11368-04-25 10:19 G	5873251.86	5873251.93	5873252.03	0.0071	0.0054	
Pluto	11368-07-22 11:02 G	5873339.87	5873339.96	5873340.07	0.0071	0.0045	
Pluto	11368-10-18 11:45 G	5873427.88	5873427.99	5873428.12	0.0071	0.0036	
Pluto	11369-01-14 12:43 G	5873515.91	5873516.03	5873516.16	0.0071	0.0027	
Pluto	11369-04-12 13:26 G	5873603.93	5873604.06	5873604.19	0.0071	0.0018	
Pluto	11369-07-09 14:09 G	5873691.96	5873692.09	5873692.23	0.0072	0.0008	
Pluto	11369-10-05 14:52 G	5873779.99	5873780.12	5873780.26	0.0072	0.0002	
Pluto	11370-01-01 15:36 G	5873868.02	5873868.15	5873868.29	0.0072	0.0011	
Pluto	11370-03-30 16:19 G	5873956.06	5873956.18	5873956.32	0.0072	0.0020	
Pluto	11370-06-26 17:02 G	5874044.10	5874044.21	5874044.34	0.0072	0.0030	
Pluto	11370-09-22 18:00 G	5874132.14	5874132.25	5874132.36	0.0072	0.0039	
Jupiter	11370-12-01 18:14 G	5874202.13	5874202.26	5874202.40	0.0543	0.0148	
Pluto	11370-12-19 18:28 G	5874220.18	5874220.27	5874220.38	0.0072	0.0050	
Earth	11371-02-28 11:45 G	5874290.88	5874290.99	5874291.10	0.2657	0.0722	
Moon	11371-02-28 12:14 G	5874290.90	5874291.01	5874291.12	0.2662	0.0846	*
Pluto	11371-03-17 19:11 G	5874308.24	5874308.30	5874308.39	0.0072	0.0060	
Pluto	11371-06-13 20:09 G	5874396.31	5874396.34	5874396.39	0.0073	0.0069	
Mars	11373-09-02 16:33 G	5875208.06	5875208.19	5875208.32	0.1607	0.0918	
Mars	11374-07-15 13:40 G	5875523.96	5875524.07	5875524.18	0.1935	0.0848	
Jupiter	11376-07-17 22:19 G	5876257.31	5876257.43	5876257.55	0.0486	0.0317	
Jupiter	11376-10-15 15:50 G	5876347.03	5876347.16	5876347.30	0.0485	0.0269	
Saturn	11378-09-15 00:00 G	5877046.45	5877046.50	5877046.55	0.0284	0.0267	
Saturn	11378-12-12 17:02 G	5877135.08	5877135.21	5877135.35	0.0284	0.0147	
Saturn	11379-03-11 10:33 G	5877223.78	5877223.94	5877224.10	0.0284	0.0024	
Saturn	11379-06-08 04:19 G	5877312.54	5877312.68	5877312.84	0.0284	0.0104	
Saturn	11379-09-04 22:33 G	5877401.36	5877401.44	5877401.54	0.0284	0.0233	
Moon	11380-08-22 19:11 G	5877754.24	5877754.30	5877754.36	0.2680	0.2353	
Earth	11380-08-22 20:23 G	5877754.28	5877754.35	5877754.42	0.2677	0.2283	*

Jupiter	11382-09-19 20:09 G	5878512.20	5878512.34	5878512.48	0.0543	0.0034
Mars	11383-01-23 20:52 G	5878638.21	5878638.37	5878638.52	0.1604	0.0213
Mars	11383-12-05 19:26 G	5878954.28	5878954.31	5878954.35	0.1938	0.1816
Earth	11384-03-02 06:57 G	5879041.73	5879041.79	5879041.85	0.2659	0.2235
Moon	11384-03-02 07:40 G	5879041.77	5879041.82	5879041.87	0.2660	0.2344 *
Uranus	11384-09-26 15:21 G	5879250.05	5879250.14	5879250.24	0.0145	0.0119
Uranus	11384-12-23 21:50 G	5879338.29	5879338.41	5879338.55	0.0145	0.0093
Uranus	11385-03-22 04:48 G	5879426.55	5879426.70	5879426.85	0.0145	0.0066
Venus	11385-05-13 22:04 G	5879479.35	5879479.42	5879479.50	0.3684	0.2643
Uranus	11385-06-18 11:31 G	5879514.82	5879514.98	5879515.15	0.0145	0.0039
Uranus	11385-09-14 18:14 G	5879603.09	5879603.26	5879603.44	0.0145	0.0013
Uranus	11385-12-12 01:11 G	5879691.38	5879691.55	5879691.72	0.0145	0.0015
Uranus	11386-03-10 07:55 G	5879779.67	5879779.83	5879780.01	0.0145	0.0043
Uranus	11386-06-06 15:07 G	5879867.97	5879868.13	5879868.28	0.0145	0.0070
Uranus	11386-09-02 21:50 G	5879956.29	5879956.41	5879956.55	0.0145	0.0098
Uranus	11386-11-30 04:48 G	5880044.63	5880044.70	5880044.80	0.0145	0.0126
Jupiter	11388-05-06 00:00 G	5880567.45	5880567.50	5880567.56	0.0486	0.0455
Jupiter	11388-08-03 17:02 G	5880657.06	5880657.21	5880657.37	0.0485	0.0123
Venus	11390-11-27 16:19 G	5881503.07	5881503.18	5881503.29	0.3685	0.1277
Moon	11391-02-24 01:40 G	5881591.51	5881591.57	5881591.63	0.2661	0.2213
Earth	11391-02-24 02:09 G	5881591.52	5881591.59	5881591.66	0.2655	0.2067 *
Venus	11392-06-10 09:21 G	5882063.79	5882063.89	5882063.99	0.3686	0.2345
Mars	11392-06-15 01:26 G	5882068.41	5882068.56	5882068.71	0.1601	0.0478
Moon	11393-08-25 21:50 G	5882505.27	5882505.41	5882505.55	0.2682	0.0138
Earth	11393-08-25 22:04 G	5882505.28	5882505.42	5882505.56	0.2675	0.0015 *
Saturn	11393-10-15 23:16 G	5882556.35	5882556.47	5882556.58	0.0274	0.0170
Saturn	11394-01-12 12:57 G	5882644.90	5882645.04	5882645.19	0.0275	0.0065
Saturn	11394-04-11 02:38 G	5882733.46	5882733.61	5882733.76	0.0275	0.0038
Saturn	11394-07-08 15:50 G	5882822.04	5882822.16	5882822.29	0.0275	0.0140
Jupiter	11394-07-08 22:19 G	5882822.30	5882822.43	5882822.56	0.0543	0.0201

Saturn 11394-10-05 05:02 G 5882910.64 5882910.71 5882910.78 0.0275 0.0238

Jupiter 11394-10-06 12:43 G 5882911.98 5882912.03 5882912.08 0.0544 0.0499

Mars 11395-04-03 00:28 G 5883090.42 5883090.52 5883090.62 0.1928 0.1056

Venus 11396-06-12 10:19 G 5883526.82 5883526.93 5883527.04 0.3685 0.0075

Venus 11397-12-25 09:50 G 5884087.77 5884087.91 5884088.04 0.3686 0.0277

Jupiter 11400-05-23 18:00 G 5884967.09 5884967.25 5884967.42 0.0485 0.0028

Mars 11401-11-06 06:14 G 5885498.66 5885498.76 5885498.87 0.1599 0.1148

Venus 11401-12-28 04:04 G 5885550.57 5885550.67 5885550.77 0.3686 0.1340

Venus 11403-07-12 10:48 G 5886111.83 5886111.95 5886112.06 0.3685 0.1963

Moon 11404-02-27 21:36 G 5886342.28 5886342.40 5886342.51 0.2662 0.0442

Earth 11404-02-27 21:36 G 5886342.28 5886342.40 5886342.52 0.2656 0.0496 *

Mars 11404-08-24 07:11 G 5886520.68 5886520.80 5886520.92 0.1931 0.0164

Jupiter 11406-04-28 00:14 G 5887132.41 5887132.51 5887132.62 0.0543 0.0376

Jupiter 11406-07-26 15:07 G 5887222.03 5887222.13 5887222.24 0.0544 0.0333

Earth 11406-08-30 00:14 G 5887256.44 5887256.51 5887256.57 0.2674 0.2380

Moon 11406-08-30 00:28 G 5887256.47 5887256.52 5887256.57 0.2681 0.2496 *

Venus 11407-07-13 21:36 G 5887574.33 5887574.40 5887574.48 0.3686 0.2585

Saturn 11408-05-01 16:19 G 5887867.07 5887867.18 5887867.30 0.0284 0.0191

Saturn 11408-07-29 09:50 G 5887955.75 5887955.91 5887956.06 0.0284 0.0069

Saturn 11408-10-26 03:21 G 5888044.48 5888044.64 5888044.80 0.0284 0.0058

Saturn 11409-01-22 21:21 G 5888133.28 5888133.39 5888133.52 0.0284 0.0186

Jupiter 11412-03-11 19:11 G 5889277.16 5889277.30 5889277.46 0.0485 0.0172

Jupiter 11412-06-09 13:26 G 5889366.98 5889367.06 5889367.14 0.0485 0.0420

Mars 11413-03-04 17:02 G 5889635.09 5889635.21 5889635.33 0.1606 0.1015

Mars 11414-01-14 13:26 G 5889950.95 5889951.06 5889951.17 0.1935 0.0775

Earth 11417-03-01 16:48 G 5891093.09 5891093.20 5891093.31 0.2657 0.1044

Moon 11417-03-01 17:31 G 5891093.12 5891093.23 5891093.33 0.2663 0.1080 *

Jupiter 11418-05-14 16:48 G 5891532.07 5891532.20 5891532.34 0.0543 0.0152

Mars 11422-07-25 21:21 G 5893065.23 5893065.39 5893065.54 0.1604 0.0304

Saturn 11423-03-06 01:11 G 5893288.45 5893288.55 5893288.66 0.0275 0.0197

Saturn 11423-06-02 15:21 G 5893377.00 5893377.14 5893377.28 0.0275 0.0091

Mars 11423-06-06 19:55 G 5893381.27 5893381.33 5893381.38 0.1938 0.1712

Saturn 11423-08-30 05:02 G 5893465.56 5893465.71 5893465.86 0.0276 0.0013

Saturn 11423-11-26 18:28 G 5893554.14 5893554.27 5893554.40 0.0276 0.0115

Jupiter 11423-12-29 20:23 G 5893587.23 5893587.35 5893587.47 0.0486 0.0317

Saturn 11424-02-23 07:26 G 5893642.73 5893642.81 5893642.91 0.0276 0.0216

Jupiter 11424-03-28 14:09 G 5893676.95 5893677.09 5893677.22 0.0485 0.0269

Neptune 11424-08-15 20:09 G 5893817.31 5893817.34 5893817.38 0.0089 0.0087

Neptune 11424-11-11 22:04 G 5893905.36 5893905.42 5893905.49 0.0089 0.0079

Neptune 11425-02-07 23:45 G 5893993.41 5893993.49 5893993.59 0.0089 0.0071

Neptune 11425-05-07 01:40 G 5894081.48 5894081.57 5894081.69 0.0089 0.0064

Neptune 11425-08-03 03:50 G 5894169.55 5894169.66 5894169.78 0.0089 0.0055

Neptune 11425-10-30 05:45 G 5894257.62 5894257.74 5894257.87 0.0089 0.0048

Neptune 11426-01-26 07:26 G 5894345.69 5894345.81 5894345.95 0.0089 0.0040

Neptune 11426-04-24 09:21 G 5894433.76 5894433.89 5894434.04 0.0089 0.0033

Neptune 11426-07-21 11:16 G 5894521.83 5894521.97 5894522.12 0.0089 0.0025

Moon 11426-08-25 01:11 G 5894556.46 5894556.55 5894556.64 0.2680 0.2050

Earth 11426-08-25 02:09 G 5894556.49 5894556.59 5894556.69 0.2676 0.1833 *

Neptune 11426-10-17 13:11 G 5894609.91 5894610.05 5894610.20 0.0089 0.0017

Neptune 11427-01-13 15:07 G 5894697.98 5894698.13 5894698.28 0.0089 0.0009

Neptune 11427-04-11 17:02 G 5894786.06 5894786.21 5894786.36 0.0089 0.0002

Uranus 11427-04-12 10:19 G 5894786.89 5894786.93 5894786.97 0.0133 0.0128

Neptune 11427-07-08 18:43 G 5894874.14 5894874.28 5894874.43 0.0089 0.0007

Uranus 11427-07-09 13:40 G 5894875.00 5894875.07 5894875.16 0.0133 0.0111

Neptune 11427-10-04 20:38 G 5894962.22 5894962.36 5894962.51 0.0089 0.0014

Uranus 11427-10-05 17:31 G 5894963.14 5894963.23 5894963.34 0.0133 0.0092

Neptune 11427-12-31 22:19 G 5895050.29 5895050.43 5895050.58 0.0089 0.0022

Uranus 11428-01-01 21:21 G 5895051.27 5895051.39 5895051.51 0.0133 0.0074

Neptune 11428-03-29 00:14 G 5895138.37 5895138.51 5895138.65 0.0089 0.0029

Uranus 11428-03-30 00:57 G 5895139.41 5895139.54 5895139.67 0.0133 0.0057

Neptune 11428-06-25 01:55 G 5895226.45 5895226.58 5895226.72 0.0089 0.0036

Uranus 11428-06-26 04:33 G 5895227.56 5895227.69 5895227.83 0.0133 0.0040

Neptune 11428-09-21 03:50 G 5895314.54 5895314.66 5895314.79 0.0089 0.0044

Uranus 11428-09-22 08:09 G 5895315.71 5895315.84 5895315.99 0.0133 0.0023

Neptune 11428-12-18 05:31 G 5895402.62 5895402.73 5895402.86 0.0089 0.0051

Uranus 11428-12-19 12:00 G 5895403.85 5895404.00 5895404.14 0.0133 0.0005

Neptune 11429-03-16 07:11 G 5895490.70 5895490.80 5895490.92 0.0089 0.0059

Uranus 11429-03-17 15:36 G 5895492.00 5895492.15 5895492.29 0.0134 0.0013

Neptune 11429-06-12 09:21 G 5895578.79 5895578.89 5895578.98 0.0089 0.0066

Uranus 11429-06-13 18:57 G 5895580.16 5895580.29 5895580.43 0.0134 0.0030

Neptune 11429-09-08 10:48 G 5895666.88 5895666.95 5895667.04 0.0089 0.0073

Uranus 11429-09-09 22:33 G 5895668.31 5895668.44 5895668.57 0.0134 0.0047

Neptune 11429-12-05 12:43 G 5895754.97 5895755.03 5895755.09 0.0089 0.0081

Uranus 11429-12-07 01:55 G 5895756.47 5895756.58 5895756.71 0.0134 0.0065

Jupiter 11430-03-02 18:28 G 5895842.13 5895842.27 5895842.41 0.0543 0.0030

Neptune 11430-03-03 14:38 G 5895843.08 5895843.11 5895843.13 0.0089 0.0088

Earth 11430-03-04 12:00 G 5895843.97 5895844.00 5895844.03 0.2659 0.2553

Uranus 11430-03-05 05:31 G 5895844.63 5895844.73 5895844.85 0.0134 0.0082

Uranus 11430-06-01 08:52 G 5895932.79 5895932.87 5895932.97 0.0134 0.0099

Uranus 11430-08-28 12:14 G 5896020.96 5896021.01 5896021.09 0.0134 0.0116

Uranus 11430-11-24 16:04 G 5896109.15 5896109.17 5896109.19 0.0134 0.0132

Mars 11431-12-16 01:55 G 5896495.43 5896495.58 5896495.73 0.1601 0.0390

Mars 11434-10-03 00:43 G 5897517.43 5897517.53 5897517.62 0.1928 0.1152

Jupiter 11435-10-17 21:50 G 5897897.36 5897897.41 5897897.46 0.0486 0.0458

Jupiter 11436-01-15 14:52 G 5897986.96 5897987.12 5897987.28 0.0485 0.0120

Venus 11436-06-05 01:55 G 5898128.56 5898128.58 5898128.60 0.3684 0.3622

Moon 11437-02-25 06:43 G 5898393.69 5898393.78 5898393.87 0.2661 0.1755

Earth 11437-02-25 07:11 G 5898393.71 5898393.80 5898393.89 0.2655 0.1736 *

Saturn 11437-09-18 19:26 G 5898599.21 5898599.31 5898599.42 0.0284 0.0210

Saturn 11437-12-16 12:43 G 5898687.88 5898688.03 5898688.18 0.0284 0.0088

Saturn 11438-03-15 06:28 G 5898776.61 5898776.77 5898776.93 0.0284 0.0038

Saturn 11438-06-12 00:14 G 5898865.38 5898865.51 5898865.65 0.0284 0.0165

Moon 11439-08-28 03:50 G 5899307.52 5899307.66 5899307.79 0.2682 0.0544

Earth 11439-08-28 04:04 G 5899307.53 5899307.67 5899307.80 0.2675 0.0480 *

Mars 11441-05-07 06:43 G 5899925.67 5899925.78 5899925.90 0.1599 0.1060

Jupiter 11441-12-19 19:55 G 5900152.20 5900152.33 5900152.46 0.0543 0.0214

Venus 11441-12-19 20:23 G 5900152.26 5900152.35 5900152.44 0.3684 0.2224 *

Jupiter 11442-03-19 10:19 G 5900241.87 5900241.93 5900241.99 0.0544 0.0486

Mars 11444-02-23 07:11 G 5900947.68 5900947.80 5900947.92 0.1931 0.0247

Venus 11447-07-05 14:23 G 5902175.99 5902176.10 5902176.21 0.3685 0.0866

Jupiter 11447-11-03 16:19 G 5902297.02 5902297.18 5902297.34 0.0485 0.0024

Venus 11449-01-16 09:07 G 5902736.76 5902736.88 5902737.00 0.3686 0.1725

Earth 11450-02-28 02:38 G 5903144.49 5903144.61 5903144.73 0.2656 0.0165

Moon 11450-02-28 02:52 G 5903144.50 5903144.62 5903144.74 0.2663 0.0201 *

Saturn 11452-07-23 03:21 G 5904020.56 5904020.64 5904020.72 0.0274 0.0224

Mars 11452-09-02 17:31 G 5904062.12 5904062.23 5904062.34 0.1607 0.1110

Saturn 11452-10-19 17:16 G 5904109.09 5904109.22 5904109.36 0.0274 0.0119

Saturn 11453-01-16 07:11 G 5904197.65 5904197.80 5904197.94 0.0275 0.0017

Venus 11453-01-18 08:23 G 5904199.74 5904199.85 5904199.96 0.3685 0.0458

Saturn 11453-04-14 20:23 G 5904286.22 5904286.35 5904286.50 0.0275 0.0088

Pluto 11453-06-23 14:23 G 5904356.08 5904356.10 5904356.18 0.0073 0.0071

Saturn 11453-07-12 09:50 G 5904374.80 5904374.91 5904375.01 0.0275 0.0187

Mars 11453-07-15 13:55 G 5904377.96 5904378.08 5904378.19 0.1935 0.0674

Pluto 11453-09-19 16:48 G 5904444.10 5904444.20 5904444.35 0.0073 0.0056

Jupiter 11453-10-07 21:50 G 5904462.32 5904462.41 5904462.51 0.0543 0.0388

Pluto 11453-12-16 19:11 G 5904532.16 5904532.30 5904532.47 0.0073 0.0042

Jupiter 11454-01-05 12:57 G 5904551.93 5904552.04 5904552.15 0.0544 0.0322

Pluto 11454-03-14 21:36 G 5904620.24 5904620.40 5904620.59 0.0073 0.0028

Pluto 11454-06-11 00:00 G 5904708.32 5904708.50 5904708.69 0.0073 0.0014

Venus 11454-08-02 09:36 G 5904760.77 5904760.90 5904761.04 0.3685 0.0417

Pluto 11454-09-07 02:23 G 5904796.41 5904796.60 5904796.79 0.0073 0.0001

Pluto 11454-12-04 04:19 G 5904884.50 5904884.68 5904884.87 0.0073 0.0014

Pluto 11455-03-02 06:43 G 5904972.60 5904972.78 5904972.95 0.0072 0.0027

Pluto 11455-05-29 08:23 G 5905060.71 5905060.85 5905061.02 0.0072 0.0041

Pluto 11455-08-25 10:48 G 5905148.83 5905148.95 5905149.08 0.0072 0.0053

Pluto 11455-11-21 13:11 G 5905236.98 5905237.05 5905237.11 0.0072 0.0067

Venus 11458-08-04 02:09 G 5906223.49 5906223.59 5906223.69 0.3686 0.1731

Jupiter 11459-08-22 17:16 G 5906607.07 5906607.22 5906607.37 0.0485 0.0171

Jupiter 11459-11-20 11:16 G 5906696.89 5906696.97 5906697.05 0.0484 0.0419

Venus 11460-02-16 10:48 G 5906784.86 5906784.95 5906785.05 0.3684 0.2656

Mars 11462-01-23 21:50 G 5907492.26 5907492.41 5907492.56 0.1604 0.0397

Mars 11462-12-05 19:55 G 5907808.26 5907808.33 5907808.39 0.1938 0.1632

Earth 11463-03-02 21:50 G 5907895.31 5907895.41 5907895.51 0.2658 0.1368

Moon 11463-03-02 22:33 G 5907895.34 5907895.44 5907895.53 0.2662 0.1519 *

Venus 11464-02-17 19:40 G 5908247.26 5908247.32 5908247.38 0.3686 0.2963

Jupiter 11465-10-24 15:21 G 5908862.01 5908862.14 5908862.27 0.0543 0.0155

Saturn 11467-02-05 18:43 G 5909331.21 5909331.28 5909331.35 0.0284 0.0254

Saturn 11467-05-05 11:45 G 5909419.85 5909419.99 5909420.13 0.0284 0.0133

Saturn 11467-08-02 05:16 G 5909508.56 5909508.72 5909508.88 0.0284 0.0010

Saturn 11467-10-29 23:02 G 5909597.32 5909597.46 5909597.62 0.0284 0.0118

Saturn 11468-01-26 17:16 G 5909686.15 5909686.22 5909686.31 0.0284 0.0247

Uranus 11468-07-21 16:33 G 5909863.14 5909863.19 5909863.24 0.0145 0.0138

Uranus 11468-10-17 23:02 G 5909951.36 5909951.46 5909951.57 0.0145 0.0111

Uranus 11469-01-14 05:31 G 5910039.60 5910039.73 5910039.88 0.0145 0.0085

Uranus 11469-04-12 12:28 G 5910127.86 5910128.02 5910128.18 0.0145 0.0058

Uranus 11469-07-09 19:11 G 5910216.13 5910216.30 5910216.47 0.0145 0.0031

Uranus 11469-10-06 02:09 G 5910304.41 5910304.59 5910304.76 0.0145 0.0005

Uranus 11470-01-02 08:52 G 5910392.70 5910392.87 5910393.04 0.0145 0.0023

Uranus 11470-03-31 15:50 G 5910481.00 5910481.16 5910481.32 0.0145 0.0051

Uranus 11470-06-27 22:33 G 5910569.30 5910569.44 5910569.60 0.0145 0.0079

Uranus 11470-09-24 05:31 G 5910657.62 5910657.73 5910657.86 0.0145 0.0107

Uranus 11470-12-21 12:57 G 5910745.97 5910746.04 5910746.10 0.0145 0.0134

Jupiter 11471-06-10 18:43 G 5910917.16 5910917.28 5910917.40 0.0486 0.0314

Mars 11471-06-16 02:23 G 5910922.45 5910922.60 5910922.75 0.1601 0.0297

Jupiter 11471-09-08 12:14 G 5911006.87 5911007.01 5911007.15 0.0485 0.0270

Moon 11472-08-25 07:11 G 5911358.68 5911358.80 5911358.92 0.2681 0.1445

Earth 11472-08-25 08:09 G 5911358.72 5911358.84 5911358.96 0.2676 0.1376 *

Mars 11474-04-03 00:43 G 5911944.43 5911944.53 5911944.62 0.1928 0.1230

Jupiter 11477-08-12 17:02 G 5913172.07 5913172.21 5913172.35 0.0543 0.0026

Mars 11480-11-05 07:11 G 5914352.68 5914352.80 5914352.92 0.1599 0.0977

Saturn 11481-12-10 04:48 G 5914752.65 5914752.70 5914752.76 0.0275 0.0255

Saturn 11482-03-08 19:11 G 5914841.17 5914841.30 5914841.42 0.0275 0.0148

Saturn 11482-06-05 08:52 G 5914929.73 5914929.87 5914930.02 0.0275 0.0044

Saturn 11482-09-01 22:33 G 5915018.30 5915018.44 5915018.58 0.0275 0.0060

Saturn 11482-11-29 11:45 G 5915106.88 5915106.99 5915107.11 0.0276 0.0161

Saturn 11483-02-26 00:57 G 5915195.50 5915195.54 5915195.59 0.0276 0.0260

Moon 11483-02-26 12:00 G 5915195.90 5915196.00 5915196.09 0.2661 0.1510

Earth 11483-02-26 12:14 G 5915195.91 5915196.01 5915196.11 0.2655 0.1401 *

Jupiter 11483-03-29 19:55 G 5915227.28 5915227.33 5915227.38 0.0486 0.0458

Jupiter 11483-06-27 12:57 G 5915316.88 5915317.04 5915317.20 0.0485 0.0120

Mars 11483-08-24 07:26 G 5915374.69 5915374.81 5915374.93 0.1932 0.0341

Moon 11485-08-28 09:50 G 5916109.77 5916109.91 5916110.04 0.2682 0.0843

Earth 11485-08-28 09:50 G 5916109.78 5916109.91 5916110.05 0.2675 0.0946 *

Jupiter 11489-05-31 18:28 G 5917482.14 5917482.27 5917482.40 0.0542 0.0209

Jupiter 11489-08-29 08:52 G 5917571.81 5917571.87 5917571.93 0.0543 0.0489

Mars 11492-03-03 18:00 G 5918489.14 5918489.25 5918489.35 0.1607 0.1200

Venus 11493-01-10 00:14 G 5918801.45 5918801.51 5918801.56 0.3684 0.3186

Mars 11493-01-13 13:55 G 5918804.96 5918805.08 5918805.20 0.1935 0.0582

Jupiter 11495-04-15 14:09 G 5919626.92 5919627.09 5919627.25 0.0485 0.0028

Earth 11496-02-29 07:40 G 5919946.70 5919946.82 5919946.94 0.2657 0.0160

Moon 11496-02-29 07:55 G 5919946.72 5919946.83 5919946.95 0.2663 0.0269 *

Saturn 11496-06-24 21:36 G 5920063.37 5920063.40 5920063.45 0.0284 0.0273

Saturn 11496-09-21 14:38 G 5920151.98 5920152.11 5920152.25 0.0284 0.0153

Saturn 11496-12-19 08:09 G 5920240.68 5920240.84 5920241.00 0.0284 0.0030

Saturn 11497-03-18 02:09 G 5920329.43 5920329.59 5920329.74 0.0284 0.0097

Saturn 11497-06-14 20:09 G 5920418.25 5920418.34 5920418.45 0.0284 0.0225

Venus 11498-07-26 18:28 G 5920825.17 5920825.27 5920825.37 0.3684 0.1797

Venus 11500-02-07 08:52 G 5921385.80 5921385.87 5921385.93 0.3686 0.3129

Jupiter 11501-03-20 19:26 G 5921792.22 5921792.31 5921792.41 0.0542 0.0399

Jupiter 11501-06-18 10:33 G 5921881.83 5921881.94 5921882.06 0.0544 0.0311

Mars 11501-07-25 22:19 G 5921919.28 5921919.43 5921919.58 0.1604 0.0492

Mars 11502-06-06 19:55 G 5922235.26 5922235.33 5922235.41 0.1938 0.1537

Venus 11504-02-10 12:43 G 5922848.91 5922849.03 5922849.14 0.3685 0.0464

Venus 11505-08-24 08:52 G 5923409.75 5923409.87 5923410.00 0.3686 0.1096

Neptune 11506-08-09 04:19 G 5923759.66 5923759.68 5923759.73 0.0088 0.0086

Neptune 11506-11-05 06:43 G 5923847.72 5923847.78 5923847.87 0.0088 0.0078

Neptune 11507-02-01 09:07 G 5923935.79 5923935.88 5923935.99 0.0088 0.0070

Jupiter 11507-02-02 15:36 G 5923937.00 5923937.15 5923937.30 0.0485 0.0168

Neptune 11507-04-30 11:31 G 5924023.88 5924023.98 5924024.11 0.0088 0.0062

Jupiter 11507-05-03 09:21 G 5924026.82 5924026.89 5924026.98 0.0484 0.0423

Neptune 11507-07-27 13:55 G 5924111.96 5924112.08 5924112.22 0.0088 0.0054

Neptune 11507-10-23 16:33 G 5924200.05 5924200.19 5924200.34 0.0088 0.0046

Neptune 11508-01-19 18:57 G 5924288.14 5924288.29 5924288.45 0.0088 0.0038

Neptune 11508-04-16 21:21 G 5924376.24 5924376.39 5924376.55 0.0088 0.0030

Neptune 11508-07-13 23:45 G 5924464.34 5924464.49 5924464.66 0.0088 0.0022

Neptune 11508-10-10 02:23 G 5924552.44 5924552.60 5924552.77 0.0088 0.0013

Neptune 11509-01-06 04:48 G 5924640.54 5924640.70 5924640.87 0.0088 0.0006

Earth 11509-03-04 02:52 G 5924697.53 5924697.62 5924697.71 0.2658 0.1690

Moon 11509-03-04 03:36 G 5924697.56 5924697.65 5924697.74 0.2661 0.1722 *

Neptune 11509-04-04 07:26 G 5924728.64 5924728.81 5924728.98 0.0088 0.0003

Neptune 11509-07-01 09:50 G 5924816.74 5924816.91 5924817.08 0.0088 0.0011

Venus 11509-08-26 06:28 G 5924872.66 5924872.77 5924872.88 0.3685 0.0857

Neptune 11509-09-27 12:14 G 5924904.85 5924905.01 5924905.18 0.0088 0.0020

Neptune 11509-12-24 14:52 G 5924992.96 5924993.12 5924993.28 0.0088 0.0028

Neptune 11510-03-22 17:16 G 5925081.07 5925081.22 5925081.38 0.0088 0.0036

Neptune 11510-06-18 19:40 G 5925169.19 5925169.32 5925169.48 0.0088 0.0045

Neptune 11510-09-14 22:19 G 5925257.30 5925257.43 5925257.57 0.0088 0.0053

Neptune 11510-12-12 00:57 G 5925345.42 5925345.54 5925345.67 0.0088 0.0061

Mars 11510-12-16 02:52 G 5925349.46 5925349.62 5925349.77 0.1601 0.0207

Neptune 11511-03-10 03:21 G 5925433.55 5925433.64 5925433.76 0.0088 0.0070

Venus 11511-03-10 09:50 G 5925433.78 5925433.91 5925434.03 0.3685 0.1077

Uranus 11511-05-03 18:00 G 5925488.20 5925488.25 5925488.32 0.0133 0.0120

Neptune 11511-06-06 06:00 G 5925521.68 5925521.75 5925521.84 0.0088 0.0078

Saturn 11511-07-27 21:21 G 5925573.28 5925573.39 5925573.50 0.0274 0.0174

Uranus 11511-07-30 21:50 G 5925576.32 5925576.41 5925576.51 0.0133 0.0102

Neptune 11511-09-02 08:23 G 5925609.84 5925609.85 5925609.89 0.0088 0.0087

Saturn 11511-10-24 11:16 G 5925661.82 5925661.97 5925662.11 0.0274 0.0070

Uranus 11511-10-27 01:40 G 5925664.46 5925664.57 5925664.68 0.0133 0.0084

Saturn 11512-01-21 00:43 G 5925750.39 5925750.53 5925750.68 0.0275 0.0034

Uranus 11512-01-23 05:02 G 5925752.60 5925752.71 5925752.85 0.0133 0.0068

Saturn 11512-04-18 14:09 G 5925838.97 5925839.09 5925839.22 0.0275 0.0134

Uranus 11512-04-20 08:52 G 5925840.74 5925840.87 5925841.01 0.0133 0.0049

Saturn 11512-07-16 03:21 G 5925927.57 5925927.64 5925927.71 0.0275 0.0233

Uranus 11512-07-17 12:43 G 5925928.89 5925929.03 5925929.17 0.0133 0.0032

Uranus 11512-10-13 16:19 G 5926017.04 5926017.18 5926017.32 0.0133 0.0014

Uranus 11513-01-09 19:55 G 5926105.18 5926105.33 5926105.47 0.0133 0.0004

Jupiter 11513-04-06 12:57 G 5926191.91 5926192.04 5926192.18 0.0544 0.0144

Uranus 11513-04-07 23:31 G 5926193.34 5926193.48 5926193.62 0.0134 0.0021

Uranus 11513-07-05 02:52 G 5926281.49 5926281.62 5926281.76 0.0134 0.0038

Uranus 11513-10-01 06:28 G 5926369.64 5926369.77 5926369.90 0.0134 0.0055

Mars	11513-10-03 00:43 G	5926371.45	5926371.53	5926371.62	0.1928	0.1320	
Uranus	11513-12-28 10:04 G	5926457.80	5926457.92	5926458.04	0.0134	0.0072	
Uranus	11514-03-26 13:26 G	5926545.96	5926546.06	5926546.17	0.0134	0.0089	
Uranus	11514-06-22 17:02 G	5926634.13	5926634.21	5926634.29	0.0134	0.0106	
Uranus	11514-09-18 20:23 G	5926722.30	5926722.35	5926722.41	0.0134	0.0123	
Venus	11515-03-12 00:14 G	5926896.42	5926896.51	5926896.60	0.3686	0.2121	
Venus	11516-09-23 11:02 G	5927457.91	5927457.96	5927458.01	0.3684	0.3358	
Moon	11518-08-27 13:11 G	5928160.92	5928161.05	5928161.18	0.2682	0.1027	
Earth	11518-08-27 13:55 G	5928160.95	5928161.08	5928161.21	0.2676	0.0919	*
Jupiter	11518-11-21 16:48 G	5928247.08	5928247.20	5928247.32	0.0486	0.0312	
Jupiter	11519-02-19 10:19 G	5928336.79	5928336.93	5928337.06	0.0485	0.0271	
Mars	11520-05-07 07:40 G	5928779.69	5928779.82	5928779.95	0.1599	0.0884	
Venus	11520-09-24 17:31 G	5928920.19	5928920.23	5928920.28	0.3687	0.3343	
Mars	11523-02-23 07:26 G	5929801.69	5929801.81	5929801.93	0.1931	0.0426	
Jupiter	11525-01-23 15:21 G	5930502.00	5930502.14	5930502.28	0.0543	0.0024	
Saturn	11526-02-09 13:40 G	5930883.96	5930884.07	5930884.19	0.0284	0.0199	
Saturn	11526-05-09 07:11 G	5930972.64	5930972.80	5930972.95	0.0284	0.0076	
Saturn	11526-08-06 00:43 G	5931061.37	5931061.53	5931061.69	0.0284	0.0049	
Saturn	11526-11-02 18:43 G	5931150.16	5931150.28	5931150.41	0.0284	0.0177	
Moon	11529-02-27 17:02 G	5931998.11	5931998.21	5931998.32	0.2661	0.1091	
Earth	11529-02-27 17:16 G	5931998.12	5931998.22	5931998.33	0.2655	0.1074	*
Mars	11529-09-27 12:43 G	5932209.99	5932210.03	5932210.06	0.1597	0.1544	
Jupiter	11530-09-09 18:14 G	5932557.21	5932557.26	5932557.32	0.0486	0.0453	
Jupiter	11530-12-08 11:16 G	5932646.82	5932646.97	5932647.13	0.0485	0.0124	
Moon	11531-08-30 15:50 G	5932912.04	5932912.16	5932912.28	0.2681	0.1489	
Earth	11531-08-30 15:50 G	5932912.04	5932912.16	5932912.28	0.2675	0.1417	*
Mars	11531-09-03 18:28 G	5932916.18	5932916.27	5932916.36	0.1607	0.1301	
Mars	11532-07-15 13:55 G	5933231.96	5933232.08	5933232.20	0.1935	0.0498	
Jupiter	11536-11-11 17:02 G	5934812.08	5934812.21	5934812.34	0.0542	0.0203	
Jupiter	11537-02-09 07:26 G	5934901.76	5934901.81	5934901.87	0.0543	0.0496	

Saturn 11540-12-13 22:33 G 5936305.35 5936305.44 5936305.54 0.0275 0.0207

Mars 11541-01-23 22:33 G 5936346.30 5936346.44 5936346.59 0.1604 0.0579

Saturn 11541-03-12 12:43 G 5936393.89 5936394.03 5936394.17 0.0275 0.0101

Saturn 11541-06-09 02:23 G 5936482.45 5936482.60 5936482.75 0.0275 0.0005

Saturn 11541-09-05 15:50 G 5936571.03 5936571.16 5936571.30 0.0275 0.0105

Saturn 11541-12-03 05:02 G 5936659.62 5936659.71 5936659.81 0.0276 0.0205

Mars 11541-12-05 20:09 G 5936662.26 5936662.34 5936662.42 0.1938 0.1441

Earth 11542-03-02 12:43 G 5936748.92 5936749.03 5936749.15 0.2657 0.0491

Moon 11542-03-02 13:11 G 5936748.93 5936749.05 5936749.16 0.2663 0.0496 *

Jupiter 11542-09-26 12:14 G 5936956.85 5936957.01 5936957.17 0.0485 0.0025

Jupiter 11548-08-30 18:28 G 5939122.17 5939122.27 5939122.37 0.0542 0.0388

Jupiter 11548-11-28 09:21 G 5939211.78 5939211.89 5939212.01 0.0543 0.0320

Venus 11549-08-17 22:19 G 5939474.36 5939474.43 5939474.51 0.3684 0.2754

Mars 11550-06-16 03:21 G 5939776.48 5939776.64 5939776.79 0.1602 0.0123

Uranus 11552-08-12 00:28 G 5940564.45 5940564.52 5940564.61 0.0145 0.0128

Uranus 11552-11-08 07:26 G 5940652.69 5940652.81 5940652.93 0.0145 0.0102

Uranus 11553-02-04 13:55 G 5940740.94 5940741.08 5940741.23 0.0145 0.0075

Mars 11553-04-03 00:57 G 5940798.46 5940798.54 5940798.62 0.1928 0.1414

Uranus 11553-05-03 20:38 G 5940829.20 5940829.36 5940829.53 0.0145 0.0048

Uranus 11553-07-31 03:21 G 5940917.47 5940917.64 5940917.82 0.0145 0.0022

Uranus 11553-10-27 10:19 G 5941005.76 5941005.93 5941006.10 0.0145 0.0006

Uranus 11554-01-23 17:02 G 5941094.05 5941094.21 5941094.39 0.0145 0.0034

Uranus 11554-04-22 00:00 G 5941182.35 5941182.50 5941182.66 0.0145 0.0061

Jupiter 11554-07-15 13:26 G 5941266.91 5941267.06 5941267.22 0.0486 0.0169

Uranus 11554-07-19 06:57 G 5941270.66 5941270.79 5941270.93 0.0145 0.0089

Jupiter 11554-10-13 07:26 G 5941356.73 5941356.81 5941356.89 0.0485 0.0422

Uranus 11554-10-15 13:55 G 5941358.98 5941359.08 5941359.19 0.0145 0.0117

Uranus 11555-01-11 21:07 G 5941447.38 5941447.38 5941447.39 0.0145 0.0144

Venus 11555-03-03 16:33 G 5941498.09 5941498.19 5941498.30 0.3685 0.1382

Earth 11555-03-05 07:55 G 5941499.76 5941499.83 5941499.91 0.2658 0.2011

Moon	11555-03-05 08:38 G	5941499.80	5941499.86	5941499.93	0.2659	0.2181	*
Saturn	11555-06-29 16:19 G	5941616.09	5941616.18	5941616.28	0.0284	0.0221	
Saturn	11555-09-26 09:36 G	5941704.75	5941704.90	5941705.05	0.0284	0.0099	
Saturn	11555-12-24 03:21 G	5941793.47	5941793.64	5941793.80	0.0284	0.0026	
Saturn	11556-03-21 21:07 G	5941882.25	5941882.38	5941882.52	0.0284	0.0153	
Saturn	11556-06-18 15:36 G	5941971.14	5941971.15	5941971.17	0.0284	0.0282	
Venus	11556-09-14 08:38 G	5942058.76	5942058.86	5942058.95	0.3686	0.2521	
Mars	11559-11-06 08:09 G	5943206.70	5943206.84	5943206.97	0.1599	0.0796	
Jupiter	11560-09-16 10:48 G	5943521.82	5943521.95	5943522.09	0.0543	0.0136	
Venus	11560-09-16 10:48 G	5943521.84	5943521.95	5943522.06	0.3685	0.0095	*
Moon	11562-02-26 02:09 G	5944049.55	5944049.59	5944049.64	0.2658	0.2458	
Earth	11562-02-26 03:07 G	5944049.57	5944049.63	5944049.68	0.2654	0.2319	*
Venus	11562-03-31 08:52 G	5944082.74	5944082.87	5944083.00	0.3685	0.0451	
Mars	11562-08-24 07:40 G	5944228.70	5944228.82	5944228.93	0.1931	0.0519	
Moon	11564-08-27 19:11 G	5944963.16	5944963.30	5944963.44	0.2682	0.0548	
Earth	11564-08-27 19:55 G	5944963.19	5944963.33	5944963.47	0.2676	0.0462	*
Venus	11566-04-02 04:33 G	5945545.58	5945545.69	5945545.79	0.3686	0.1253	
Jupiter	11566-05-03 15:21 G	5945577.01	5945577.14	5945577.26	0.0486	0.0307	
Jupiter	11566-08-01 08:38 G	5945666.73	5945666.86	5945667.00	0.0485	0.0277	
Venus	11567-10-15 09:50 G	5946106.79	5946106.91	5946107.02	0.3685	0.1747	
Mars	11569-03-28 13:11 G	5946636.99	5946637.05	5946637.11	0.1597	0.1454	
Saturn	11570-05-03 00:57 G	5947037.47	5947037.54	5947037.62	0.0274	0.0232	
Saturn	11570-07-30 15:07 G	5947126.00	5947126.13	5947126.26	0.0274	0.0126	
Saturn	11570-10-27 04:48 G	5947214.56	5947214.70	5947214.85	0.0274	0.0023	
Saturn	11571-01-23 18:28 G	5947303.13	5947303.27	5947303.41	0.0275	0.0080	
Mars	11571-03-04 18:57 G	5947343.22	5947343.29	5947343.37	0.1607	0.1395	
Saturn	11571-04-22 07:26 G	5947391.71	5947391.81	5947391.93	0.0275	0.0180	
Venus	11571-10-16 22:04 G	5947569.34	5947569.42	5947569.50	0.3686	0.2504	
Mars	11572-01-14 14:09 G	5947658.97	5947659.09	5947659.21	0.1935	0.0405	
Jupiter	11572-07-05 13:11 G	5947831.91	5947832.05	5947832.19	0.0543	0.0038	

Moon 11575-02-28 22:19 G 5948800.32 5948800.43 5948800.55 0.2662 0.0744

Earth 11575-02-28 22:33 G 5948800.32 5948800.44 5948800.55 0.2655 0.0739 *

Earth 11577-08-30 21:50 G 5949714.31 5949714.41 5949714.51 0.2675 0.1891

Moon 11577-08-30 22:04 G 5949714.32 5949714.42 5949714.52 0.2681 0.1902 *

Jupiter 11578-02-19 16:33 G 5949887.14 5949887.19 5949887.25 0.0486 0.0450

Jupiter 11578-05-20 09:36 G 5949976.74 5949976.90 5949977.06 0.0485 0.0127

Mars 11580-07-24 23:16 G 5950773.33 5950773.47 5950773.61 0.1604 0.0677

Mars 11581-06-05 20:09 G 5951089.26 5951089.34 5951089.43 0.1938 0.1356

Jupiter 11584-04-23 15:21 G 5952142.01 5952142.14 5952142.27 0.0543 0.0204

Jupiter 11584-07-22 06:00 G 5952231.70 5952231.75 5952231.80 0.0544 0.0498

Saturn 11584-11-15 15:21 G 5952348.09 5952348.14 5952348.20 0.0285 0.0266

Saturn 11585-02-12 08:23 G 5952436.72 5952436.85 5952436.99 0.0284 0.0146

Saturn 11585-05-12 01:55 G 5952525.42 5952525.58 5952525.75 0.0284 0.0023

Saturn 11585-08-08 19:55 G 5952614.17 5952614.33 5952614.48 0.0284 0.0105

Saturn 11585-11-05 13:55 G 5952702.99 5952703.08 5952703.18 0.0284 0.0233

Earth 11588-03-02 17:45 G 5953551.13 5953551.24 5953551.35 0.2657 0.0815

Moon 11588-03-02 18:14 G 5953551.15 5953551.26 5953551.37 0.2663 0.0910 *

Neptune 11589-05-13 18:28 G 5953988.24 5953988.27 5953988.31 0.0089 0.0087

Neptune 11589-08-09 20:09 G 5954076.29 5954076.34 5954076.42 0.0089 0.0079

Neptune 11589-11-05 22:04 G 5954164.35 5954164.42 5954164.52 0.0089 0.0072

Mars 11589-12-15 03:36 G 5954203.50 5954203.65 5954203.81 0.1601 0.0057

Neptune 11590-02-02 00:00 G 5954252.41 5954252.50 5954252.62 0.0089 0.0064

Jupiter 11590-03-08 10:48 G 5954286.79 5954286.95 5954287.11 0.0485 0.0019

Neptune 11590-05-01 02:09 G 5954340.48 5954340.59 5954340.71 0.0089 0.0056

Neptune 11590-07-28 04:04 G 5954428.55 5954428.67 5954428.80 0.0089 0.0048

Neptune 11590-10-24 05:45 G 5954516.62 5954516.74 5954516.89 0.0089 0.0041

Neptune 11591-01-20 07:40 G 5954604.69 5954604.82 5954604.97 0.0089 0.0033

Neptune 11591-04-18 09:50 G 5954692.77 5954692.91 5954693.05 0.0089 0.0025

Neptune 11591-07-15 11:31 G 5954780.84 5954780.98 5954781.13 0.0089 0.0017

Neptune 11591-10-11 13:26 G 5954868.92 5954869.06 5954869.21 0.0089 0.0010

Neptune 11592-01-07 15:21 G 5954956.99 5954957.14 5954957.29 0.0089 0.0002

Neptune 11592-04-04 17:16 G 5955045.07 5955045.22 5955045.37 0.0089 0.0006

Neptune 11592-07-01 18:57 G 5955133.15 5955133.29 5955133.44 0.0089 0.0014

Neptune 11592-09-27 20:38 G 5955221.23 5955221.36 5955221.51 0.0089 0.0022

Mars 11592-10-02 00:43 G 5955225.46 5955225.53 5955225.61 0.1927 0.1491

Neptune 11592-12-24 22:33 G 5955309.31 5955309.44 5955309.59 0.0089 0.0029

Neptune 11593-03-23 00:14 G 5955397.39 5955397.51 5955397.66 0.0089 0.0037

Neptune 11593-06-19 02:09 G 5955485.47 5955485.59 5955485.73 0.0089 0.0044

Neptune 11593-09-15 03:50 G 5955573.55 5955573.66 5955573.79 0.0089 0.0052

Neptune 11593-12-12 05:45 G 5955661.64 5955661.74 5955661.86 0.0089 0.0059

Neptune 11594-03-10 07:40 G 5955749.72 5955749.82 5955749.92 0.0089 0.0066

Neptune 11594-06-06 09:07 G 5955837.81 5955837.88 5955837.98 0.0089 0.0074

Neptune 11594-09-02 11:02 G 5955925.91 5955925.96 5955926.03 0.0089 0.0081

Neptune 11594-11-29 12:57 G 5956014.02 5956014.04 5956014.07 0.0089 0.0088

Uranus 11595-02-24 22:19 G 5956101.41 5956101.43 5956101.46 0.0133 0.0130

Uranus 11595-05-24 02:09 G 5956189.52 5956189.59 5956189.67 0.0133 0.0112

Uranus 11595-08-20 06:00 G 5956277.65 5956277.75 5956277.85 0.0133 0.0095

Uranus 11595-11-16 09:21 G 5956365.78 5956365.89 5956366.02 0.0133 0.0077

Jupiter 11596-02-10 17:02 G 5956452.11 5956452.21 5956452.31 0.0542 0.0381

Uranus 11596-02-12 13:11 G 5956453.93 5956454.05 5956454.18 0.0133 0.0059

Jupiter 11596-05-10 08:09 G 5956541.73 5956541.84 5956541.95 0.0543 0.0327

Uranus 11596-05-10 17:02 G 5956542.07 5956542.21 5956542.34 0.0133 0.0042

Uranus 11596-08-06 20:38 G 5956630.22 5956630.36 5956630.50 0.0133 0.0024

Uranus 11596-11-03 00:14 G 5956718.37 5956718.51 5956718.65 0.0133 0.0007

Uranus 11597-01-30 03:50 G 5956806.52 5956806.66 5956806.80 0.0133 0.0011

Uranus 11597-04-28 07:11 G 5956894.67 5956894.80 5956894.95 0.0134 0.0029

Uranus 11597-07-25 10:48 G 5956982.82 5956982.95 5956983.09 0.0134 0.0045

Moon 11597-08-25 23:02 G 5957014.41 5957014.46 5957014.51 0.2681 0.2489

Earth 11597-08-26 00:14 G 5957014.43 5957014.51 5957014.58 0.2677 0.2277 *

Uranus 11597-10-21 14:23 G 5957070.98 5957071.10 5957071.23 0.0134 0.0062

Uranus 11598-01-17 17:45 G 5957159.14 5957159.24 5957159.36 0.0134 0.0080

Uranus 11598-04-15 21:07 G 5957247.30 5957247.38 5957247.49 0.0134 0.0097

Uranus 11598-07-13 00:57 G 5957335.47 5957335.54 5957335.61 0.0134 0.0113

Uranus 11598-10-09 04:19 G 5957423.65 5957423.68 5957423.71 0.0134 0.0130

Mars 11599-05-07 08:23 G 5957633.71 5957633.85 5957633.99 0.1599 0.0712

Saturn 11599-09-20 01:40 G 5957769.55 5957769.57 5957769.61 0.0275 0.0268

Saturn 11599-12-17 16:04 G 5957858.05 5957858.17 5957858.29 0.0275 0.0161

Saturn 11600-03-15 06:00 G 5957946.61 5957946.75 5957946.90 0.0275 0.0056

Saturn 11600-06-11 19:40 G 5958035.17 5958035.32 5958035.46 0.0275 0.0047

Saturn 11600-09-08 08:52 G 5958123.75 5958123.87 5958124.00 0.0275 0.0148

Saturn 11600-12-05 22:04 G 5958212.36 5958212.42 5958212.48 0.0275 0.0247

Earth 11601-03-05 12:57 G 5958301.99 5958302.04 5958302.09 0.2658 0.2331

Moon 11601-03-05 13:55 G 5958302.03 5958302.08 5958302.12 0.2659 0.2390 *

Jupiter 11601-12-25 11:45 G 5958596.84 5958596.99 5958597.14 0.0486 0.0166

Mars 11602-02-22 07:40 G 5958655.71 5958655.82 5958655.93 0.1932 0.0605

Jupiter 11602-03-25 05:45 G 5958686.66 5958686.74 5958686.82 0.0485 0.0425

Venus 11606-03-24 20:38 G 5960147.27 5960147.36 5960147.45 0.3684 0.2321

Moon 11608-02-27 07:26 G 5960851.73 5960851.81 5960851.88 0.2659 0.2033

Earth 11608-02-27 08:09 G 5960851.76 5960851.84 5960851.91 0.2655 0.1985 *

Jupiter 11608-02-27 09:50 G 5960851.78 5960851.91 5960852.05 0.0543 0.0150 *

Mars 11608-09-26 13:40 G 5961063.99 5961064.07 5961064.14 0.1597 0.1367

Moon 11610-08-29 01:11 G 5961765.41 5961765.55 5961765.69 0.2682 0.0080

Earth 11610-08-29 01:40 G 5961765.43 5961765.57 5961765.71 0.2676 0.0008 *

Mars 11610-09-02 19:26 G 5961770.25 5961770.31 5961770.37 0.1607 0.1487

Mars 11611-07-15 14:23 G 5962085.98 5962086.10 5962086.22 0.1935 0.0313

Venus 11611-10-08 14:52 G 5962171.01 5962171.12 5962171.23 0.3685 0.0955

Venus 11613-04-21 08:23 G 5962731.73 5962731.85 5962731.96 0.3686 0.1908

Jupiter 11613-10-13 13:11 G 5962906.93 5962907.05 5962907.18 0.0486 0.0307

Jupiter 11614-01-11 06:43 G 5962996.65 5962996.78 5962996.91 0.0485 0.0278

Pluto 11614-03-23 22:48 G 5963068.45 5963068.45 5963068.46 0.0071 0.0071

Pluto 11614-06-19 23:16 G 5963156.42 5963156.47 5963156.55 0.0071 0.0062

Saturn 11614-07-02 10:33 G 5963168.82 5963168.94 5963169.07 0.0284 0.0172

Pluto 11614-09-16 00:00 G 5963244.43 5963244.50 5963244.61 0.0071 0.0053

Saturn 11614-09-29 04:04 G 5963257.51 5963257.67 5963257.82 0.0284 0.0049

Pluto 11614-12-13 00:43 G 5963332.44 5963332.53 5963332.65 0.0071 0.0045

Saturn 11614-12-26 21:36 G 5963346.25 5963346.40 5963346.56 0.0284 0.0077

Pluto 11615-03-11 01:55 G 5963420.46 5963420.58 5963420.69 0.0071 0.0035

Saturn 11615-03-25 15:50 G 5963435.05 5963435.16 5963435.27 0.0284 0.0205

Pluto 11615-06-07 02:23 G 5963508.48 5963508.60 5963508.73 0.0071 0.0026

Pluto 11615-09-03 03:07 G 5963596.51 5963596.63 5963596.77 0.0071 0.0017

Pluto 11615-11-30 04:04 G 5963684.53 5963684.67 5963684.80 0.0072 0.0007

Pluto 11616-02-26 04:48 G 5963772.56 5963772.70 5963772.83 0.0072 0.0003

Pluto 11616-05-24 05:31 G 5963860.60 5963860.73 5963860.86 0.0072 0.0012

Pluto 11616-08-20 06:14 G 5963948.63 5963948.76 5963948.89 0.0072 0.0022

Pluto 11616-11-16 06:57 G 5964036.67 5964036.79 5964036.92 0.0072 0.0031

Pluto 11617-02-12 07:40 G 5964124.72 5964124.82 5964124.94 0.0072 0.0041

Venus 11617-04-23 08:52 G 5964194.76 5964194.87 5964194.98 0.3685 0.0369

Pluto 11617-05-11 08:38 G 5964212.76 5964212.86 5964212.96 0.0072 0.0051

Pluto 11617-08-07 09:07 G 5964300.82 5964300.88 5964300.97 0.0072 0.0061

Pluto 11617-11-03 09:50 G 5964388.90 5964388.91 5964388.95 0.0073 0.0071

Venus 11618-11-05 08:52 G 5964755.73 5964755.87 5964756.00 0.3685 0.0217

Jupiter 11619-12-16 11:02 G 5965161.82 5965161.96 5965162.10 0.0543 0.0040

Mars 11620-01-23 23:45 G 5965200.35 5965200.49 5965200.62 0.1604 0.0769

Mars 11620-12-04 20:23 G 5965516.26 5965516.35 5965516.44 0.1938 0.1268

Moon 11621-03-01 03:36 G 5965602.53 5965602.65 5965602.77 0.2663 0.0427

Earth 11621-03-01 03:36 G 5965602.53 5965602.65 5965602.76 0.2656 0.0406 *

Venus 11622-11-07 02:38 G 5966218.51 5966218.61 5966218.71 0.3686 0.1643

Earth 11623-09-01 03:36 G 5966516.59 5966516.65 5966516.72 0.2674 0.2367

Moon 11623-09-01 04:19 G 5966516.63 5966516.68 5966516.73 0.2681 0.2461 *

Venus 11624-05-21 09:50 G 5966779.81 5966779.91 5966780.01 0.3685 0.2420

Jupiter 11625-08-01 15:07 G 5967217.07 5967217.13 5967217.20 0.0486 0.0442

Jupiter 11625-10-30 08:09 G 5967306.68 5967306.84 5967307.00 0.0485 0.0135

Venus 11628-05-22 20:09 G 5968242.27 5968242.34 5968242.41 0.3687 0.2881

Saturn 11629-05-05 18:43 G 5968590.17 5968590.28 5968590.39 0.0274 0.0185

Mars 11629-06-15 04:19 G 5968630.52 5968630.68 5968630.83 0.1601 0.0076

Saturn 11629-08-02 08:38 G 5968678.72 5968678.86 5968679.00 0.0274 0.0080

Saturn 11629-10-29 22:19 G 5968767.28 5968767.43 5968767.58 0.0274 0.0023

Saturn 11630-01-26 11:45 G 5968855.86 5968855.99 5968856.12 0.0275 0.0124

Saturn 11630-04-25 00:43 G 5968944.45 5968944.53 5968944.62 0.0275 0.0223

Jupiter 11631-10-04 13:11 G 5969471.92 5969472.05 5969472.18 0.0543 0.0214

Jupiter 11632-01-02 03:50 G 5969561.60 5969561.66 5969561.72 0.0544 0.0490

Mars 11632-04-02 00:57 G 5969652.48 5969652.54 5969652.61 0.1928 0.1583

Earth 11634-03-03 22:48 G 5970353.35 5970353.45 5970353.56 0.2657 0.1144

Moon 11634-03-03 23:31 G 5970353.37 5970353.48 5970353.58 0.2661 0.1218 *

Uranus 11636-09-01 07:55 G 5971265.75 5971265.83 5971265.94 0.0145 0.0121

Uranus 11636-11-28 14:52 G 5971353.99 5971354.12 5971354.25 0.0145 0.0094

Uranus 11637-02-24 21:21 G 5971442.25 5971442.39 5971442.55 0.0145 0.0068

Uranus 11637-05-24 04:04 G 5971530.51 5971530.67 5971530.84 0.0145 0.0041

Jupiter 11637-08-18 09:07 G 5971616.72 5971616.88 5971617.05 0.0485 0.0018

Uranus 11637-08-20 11:02 G 5971618.79 5971618.96 5971619.13 0.0145 0.0014

Uranus 11637-11-16 17:45 G 5971707.07 5971707.24 5971707.42 0.0145 0.0014

Uranus 11638-02-13 00:43 G 5971795.36 5971795.53 5971795.70 0.0145 0.0041

Uranus 11638-05-12 07:26 G 5971883.66 5971883.81 5971883.97 0.0145 0.0068

Uranus 11638-08-08 14:23 G 5971971.98 5971972.10 5971972.24 0.0145 0.0096

Uranus 11638-11-04 21:21 G 5972060.31 5972060.39 5972060.49 0.0145 0.0124

Mars 11638-11-05 09:07 G 5972060.73 5972060.88 5972061.02 0.1599 0.0617

Mars 11641-08-23 07:55 G 5973082.71 5973082.83 5973082.94 0.1931 0.0699

Jupiter 11643-07-23 15:21 G 5973782.04 5973782.14 5973782.24 0.0543 0.0383

Moon 11643-08-27 05:02 G 5973816.61 5973816.71 5973816.81 0.2682 0.1859

Earth 11643-08-27 06:00 G 5973816.65 5973816.75 5973816.85 0.2677 0.1818 *

Jupiter	11643-10-21 06:28 G	5973871.66	5973871.77	5973871.88	0.0544	0.0328	
Saturn	11643-11-19 09:21 G	5973900.80	5973900.89	5973901.00	0.0285	0.0218	
Saturn	11644-02-16 02:38 G	5973989.46	5973989.61	5973989.77	0.0284	0.0096	
Saturn	11644-05-14 20:23 G	5974078.19	5974078.35	5974078.51	0.0284	0.0029	
Saturn	11644-08-11 14:09 G	5974166.96	5974167.09	5974167.23	0.0284	0.0156	
Earth	11647-03-06 18:00 G	5975104.24	5975104.25	5975104.25	0.2658	0.2647	
Mars	11648-03-27 13:55 G	5975490.99	5975491.08	5975491.17	0.1597	0.1285	
Jupiter	11649-06-06 10:33 G	5975926.79	5975926.94	5975927.09	0.0485	0.0156	
Jupiter	11649-09-04 04:19 G	5976016.61	5976016.68	5976016.76	0.0484	0.0434	
Mars	11650-03-03 19:55 G	5976197.31	5976197.33	5976197.35	0.1607	0.1585	
Mars	11651-01-13 14:09 G	5976512.97	5976513.09	5976513.21	0.1935	0.0233	
Moon	11654-02-27 12:43 G	5977653.94	5977654.03	5977654.12	0.2660	0.1774	
Earth	11654-02-27 13:11 G	5977653.96	5977654.05	5977654.14	0.2655	0.1647	*
Jupiter	11655-08-09 08:38 G	5978181.73	5978181.86	5978182.00	0.0543	0.0158	
Moon	11656-08-29 07:11 G	5978567.67	5978567.80	5978567.94	0.2682	0.0391	
Earth	11656-08-29 07:40 G	5978567.68	5978567.82	5978567.96	0.2676	0.0473	*
Venus	11657-04-15 00:28 G	5978796.47	5978796.52	5978796.57	0.3684	0.3290	
Saturn	11658-09-22 19:11 G	5979322.22	5979322.30	5979322.39	0.0275	0.0223	
Saturn	11658-12-20 09:07 G	5979410.75	5979410.88	5979411.02	0.0275	0.0118	
Saturn	11659-03-18 23:02 G	5979499.31	5979499.46	5979499.61	0.0275	0.0014	
Saturn	11659-06-15 12:28 G	5979587.88	5979588.02	5979588.16	0.0275	0.0089	
Mars	11659-07-25 00:00 G	5979627.37	5979627.50	5979627.64	0.1604	0.0858	
Saturn	11659-09-12 01:55 G	5979676.47	5979676.58	5979676.68	0.0275	0.0189	
Mars	11660-06-04 20:38 G	5979943.26	5979943.36	5979943.46	0.1938	0.1163	
Jupiter	11661-03-25 11:45 G	5980236.87	5980236.99	5980237.12	0.0486	0.0301	
Jupiter	11661-06-23 05:02 G	5980326.58	5980326.71	5980326.85	0.0485	0.0283	
Venus	11662-10-29 18:43 G	5980820.19	5980820.28	5980820.38	0.3685	0.1903	
Venus	11664-05-12 07:55 G	5981380.78	5981380.83	5981380.89	0.3686	0.3305	
Moon	11667-03-02 08:38 G	5982404.74	5982404.86	5982404.98	0.2663	0.0033	
Earth	11667-03-02 08:38 G	5982404.74	5982404.86	5982404.98	0.2656	0.0083	*

Jupiter 11667-05-28 10:19 G 5982491.79 5982491.93 5982492.07 0.0543 0.0026

Venus 11668-05-14 12:57 G 5982843.93 5982844.04 5982844.15 0.3685 0.0544

Mars 11668-12-14 04:33 G 5983057.54 5983057.69 5983057.85 0.1602 0.0163

Venus 11669-11-26 08:09 G 5983404.71 5983404.84 5983404.96 0.3686 0.1286

Neptune 11671-05-06 02:23 G 5983930.58 5983930.60 5983930.66 0.0088 0.0085

Neptune 11671-08-02 04:48 G 5984018.64 5984018.70 5984018.80 0.0088 0.0077

Mars 11671-10-02 01:11 G 5984079.49 5984079.55 5984079.61 0.1927 0.1677

Neptune 11671-10-29 07:11 G 5984106.71 5984106.80 5984106.92 0.0088 0.0069

Neptune 11672-01-25 09:36 G 5984194.80 5984194.90 5984195.03 0.0088 0.0061

Neptune 11672-04-22 12:14 G 5984282.88 5984283.01 5984283.15 0.0088 0.0053

Neptune 11672-07-19 14:38 G 5984370.97 5984371.11 5984371.26 0.0088 0.0045

Neptune 11672-10-15 17:02 G 5984459.07 5984459.21 5984459.37 0.0088 0.0037

Jupiter 11673-01-11 13:26 G 5984547.00 5984547.06 5984547.13 0.0486 0.0439

Neptune 11673-01-11 19:26 G 5984547.16 5984547.31 5984547.48 0.0088 0.0029

Saturn 11673-04-07 11:02 G 5984632.89 5984632.96 5984633.04 0.0284 0.0247

Neptune 11673-04-09 21:50 G 5984635.26 5984635.41 5984635.58 0.0088 0.0021

Jupiter 11673-04-11 06:28 G 5984636.61 5984636.77 5984636.92 0.0485 0.0139

Saturn 11673-07-05 04:19 G 5984721.54 5984721.68 5984721.82 0.0284 0.0126

Neptune 11673-07-07 00:28 G 5984723.36 5984723.52 5984723.69 0.0088 0.0012

Saturn 11673-10-01 21:50 G 5984810.25 5984810.41 5984810.57 0.0284 0.0005

Neptune 11673-10-03 02:52 G 5984811.46 5984811.62 5984811.79 0.0088 0.0005

Venus 11673-11-28 06:57 G 5984867.68 5984867.79 5984867.89 0.3686 0.0772

Saturn 11673-12-29 15:36 G 5984899.01 5984899.15 5984899.30 0.0284 0.0125

Neptune 11673-12-30 05:31 G 5984899.56 5984899.73 5984899.90 0.0088 0.0004

Neptune 11674-03-28 07:55 G 5984987.67 5984987.83 5984988.00 0.0088 0.0012

Saturn 11674-03-28 09:50 G 5984987.84 5984987.91 5984987.99 0.0284 0.0254 *

Neptune 11674-06-24 10:19 G 5985075.77 5985075.93 5985076.10 0.0088 0.0021

Neptune 11674-09-20 12:57 G 5985163.88 5985164.04 5985164.20 0.0088 0.0029

Neptune 11674-12-17 15:21 G 5985251.99 5985252.14 5985252.30 0.0088 0.0037

Neptune 11675-03-15 17:45 G 5985340.11 5985340.24 5985340.40 0.0088 0.0046

Neptune 11675-06-11 20:23 G 5985428.22 5985428.35 5985428.49 0.0088 0.0054

Venus 11675-06-12 08:38 G 5985428.73 5985428.86 5985428.99 0.3685 0.0846

Neptune 11675-09-07 23:02 G 5985516.35 5985516.46 5985516.58 0.0088 0.0062

Neptune 11675-12-05 01:26 G 5985604.47 5985604.56 5985604.67 0.0088 0.0071

Neptune 11676-03-02 04:04 G 5985692.61 5985692.67 5985692.75 0.0088 0.0079

Neptune 11676-05-29 06:43 G 5985780.78 5985780.78 5985780.79 0.0088 0.0088

Mars 11678-05-06 09:21 G 5986487.75 5986487.89 5986488.04 0.1599 0.0529

Jupiter 11679-03-16 11:16 G 5986801.84 5986801.97 5986802.10 0.0543 0.0215

Uranus 11679-03-17 06:00 G 5986802.71 5986802.75 5986802.82 0.0133 0.0123

Uranus 11679-06-13 09:50 G 5986890.83 5986890.91 5986891.01 0.0133 0.0105

Venus 11679-06-14 00:28 G 5986891.43 5986891.52 5986891.62 0.3686 0.2034

Jupiter 11679-06-14 01:55 G 5986891.52 5986891.58 5986891.64 0.0544 0.0488 *

Uranus 11679-09-09 13:40 G 5986978.97 5986979.07 5986979.18 0.0133 0.0087

Uranus 11679-12-06 17:31 G 5987067.11 5987067.23 5987067.35 0.0133 0.0070

Uranus 11680-03-03 21:07 G 5987155.25 5987155.38 5987155.52 0.0133 0.0052

Earth 11680-03-04 03:50 G 5987155.56 5987155.66 5987155.76 0.2657 0.1463

Moon 11680-03-04 04:33 G 5987155.60 5987155.69 5987155.79 0.2661 0.1544 *

Uranus 11680-05-31 00:43 G 5987243.40 5987243.53 5987243.67 0.0133 0.0035

Uranus 11680-08-27 04:19 G 5987331.54 5987331.68 5987331.83 0.0133 0.0018

Uranus 11680-11-23 08:09 G 5987419.69 5987419.84 5987419.98 0.0133 0.0003

Venus 11680-12-26 09:50 G 5987452.84 5987452.91 5987452.98 0.3684 0.3115

Uranus 11681-02-19 11:31 G 5987507.85 5987507.98 5987508.13 0.0134 0.0019

Mars 11681-02-21 07:55 G 5987509.72 5987509.83 5987509.94 0.1931 0.0780

Uranus 11681-05-18 15:07 G 5987596.00 5987596.13 5987596.27 0.0134 0.0035

Uranus 11681-08-14 18:43 G 5987684.15 5987684.28 5987684.41 0.0134 0.0052

Uranus 11681-11-10 22:04 G 5987772.31 5987772.42 5987772.55 0.0134 0.0070

Uranus 11682-02-07 01:40 G 5987860.47 5987860.57 5987860.68 0.0134 0.0087

Uranus 11682-05-06 05:16 G 5987948.63 5987948.72 5987948.81 0.0134 0.0103

Uranus 11682-08-02 08:38 G 5988036.81 5988036.86 5988036.92 0.0134 0.0120

Venus 11684-12-27 18:00 G 5988915.20 5988915.25 5988915.30 0.3687 0.3249

Jupiter	11685-01-28 07:55 G	5988946.67	5988946.83	5988947.00	0.0485	0.0008
Mars	11687-09-26 14:23 G	5989918.00	5989918.10	5989918.20	0.1597	0.1193
Saturn	11688-02-09 21:36 G	5990054.35	5990054.40	5990054.47	0.0274	0.0246
Saturn	11688-05-08 12:00 G	5990142.87	5990143.00	5990143.12	0.0274	0.0141
Saturn	11688-08-05 01:40 G	5990231.42	5990231.57	5990231.72	0.0274	0.0037
Saturn	11688-11-01 15:21 G	5990319.99	5990320.14	5990320.28	0.0274	0.0066
Saturn	11689-01-29 04:33 G	5990408.57	5990408.69	5990408.81	0.0274	0.0165
Saturn	11689-04-27 17:31 G	5990497.20	5990497.23	5990497.27	0.0275	0.0263
Moon	11689-08-27 11:02 G	5990618.84	5990618.96	5990619.07	0.2682	0.1585
Earth	11689-08-27 12:00 G	5990618.88	5990619.00	5990619.12	0.2677	0.1363 *
Mars	11690-07-14 14:23 G	5990939.98	5990940.10	5990940.22	0.1935	0.0134
Jupiter	11691-01-02 13:11 G	5991111.95	5991112.05	5991112.15	0.0543	0.0391
Jupiter	11691-04-02 04:19 G	5991201.57	5991201.68	5991201.80	0.0544	0.0322
Jupiter	11696-11-16 09:07 G	5993256.73	5993256.88	5993257.04	0.0485	0.0148
Jupiter	11697-02-14 02:52 G	5993346.56	5993346.62	5993346.69	0.0484	0.0442
Mars	11699-01-23 00:43 G	5994054.40	5994054.53	5994054.65	0.1604	0.0957
Pluto	11699-11-13 02:38 G	5994348.57	5994348.61	5994348.69	0.0073	0.0069
Mars	11699-12-04 20:38 G	5994370.26	5994370.36	5994370.46	0.1938	0.1085
Pluto	11700-02-09 04:48 G	5994436.60	5994436.70	5994436.85	0.0073	0.0055
Moon	11700-02-28 18:00 G	5994456.14	5994456.25	5994456.35	0.2661	0.1301
Earth	11700-02-28 18:14 G	5994456.16	5994456.26	5994456.36	0.2655	0.1317 *
Pluto	11700-05-08 07:11 G	5994524.66	5994524.80	5994524.97	0.0073	0.0041
Pluto	11700-08-04 09:36 G	5994612.73	5994612.90	5994613.09	0.0073	0.0027
Pluto	11700-10-31 12:00 G	5994700.82	5994701.00	5994701.19	0.0073	0.0013
Pluto	11701-01-27 14:23 G	5994788.91	5994789.10	5994789.29	0.0073	0.0002
Pluto	11701-04-25 16:19 G	5994877.00	5994877.18	5994877.37	0.0073	0.0015
Pluto	11701-07-22 18:43 G	5994965.10	5994965.28	5994965.45	0.0072	0.0028
Pluto	11701-10-18 20:38 G	5995053.22	5995053.36	5995053.52	0.0072	0.0041
Pluto	11702-01-14 22:48 G	5995141.34	5995141.45	5995141.58	0.0072	0.0055
Pluto	11702-04-13 00:28 G	5995229.49	5995229.52	5995229.61	0.0072	0.0068

Earth 11702-08-31 13:40 G 5995369.93 5995370.07 5995370.20 0.2676 0.0946

Moon 11702-08-31 13:26 G 5995369.94 5995370.06 5995370.19 0.2682 0.1020 *

Saturn 11702-11-23 03:07 G 5995453.51 5995453.63 5995453.76 0.0285 0.0172

Jupiter 11703-01-20 06:57 G 5995511.66 5995511.79 5995511.93 0.0544 0.0159

Saturn 11703-02-19 20:23 G 5995542.19 5995542.35 5995542.51 0.0284 0.0050

Saturn 11703-05-19 14:09 G 5995630.93 5995631.09 5995631.25 0.0284 0.0076

Saturn 11703-08-16 08:09 G 5995719.73 5995719.84 5995719.96 0.0284 0.0204

Mars 11708-06-15 05:02 G 5997484.56 5997484.71 5997484.87 0.1601 0.0250

Jupiter 11708-09-05 10:48 G 5997566.82 5997566.95 5997567.08 0.0486 0.0289

Jupiter 11708-12-04 04:04 G 5997656.54 5997656.67 5997656.80 0.0485 0.0295

Mars 11711-04-03 00:57 G 5998506.50 5998506.54 5998506.59 0.1927 0.1754

Earth 11713-03-03 13:40 G 5999206.95 5999207.07 5999207.19 0.2656 0.0255

Moon 11713-03-03 13:55 G 5999206.96 5999207.08 5999207.20 0.2662 0.0234 *

Venus 11713-11-20 22:33 G 5999469.37 5999469.44 5999469.51 0.3684 0.2868

Jupiter 11714-11-08 09:21 G 5999821.74 5999821.89 5999822.03 0.0543 0.0020

Saturn 11717-09-26 12:00 G 6000874.90 6000875.00 6000875.12 0.0274 0.0181

Mars 11717-11-05 09:50 G 6000914.76 6000914.91 6000915.06 0.1599 0.0444

Saturn 11717-12-24 02:09 G 6000963.45 6000963.59 6000963.73 0.0275 0.0075

Saturn 11718-03-22 15:50 G 6001052.01 6001052.16 6001052.31 0.0275 0.0027

Saturn 11718-06-19 05:02 G 6001140.59 6001140.71 6001140.85 0.0275 0.0129

Saturn 11718-09-15 18:28 G 6001229.19 6001229.27 6001229.35 0.0275 0.0227

Venus 11719-06-06 17:02 G 6001493.11 6001493.21 6001493.31 0.3685 0.1474

Jupiter 11720-06-24 12:00 G 6001876.93 6001877.00 6001877.07 0.0486 0.0432

Uranus 11720-06-26 09:50 G 6001878.86 6001878.91 6001878.96 0.0145 0.0138

Mars 11720-08-23 07:55 G 6001936.73 6001936.83 6001936.94 0.1932 0.0876

Jupiter 11720-09-22 05:02 G 6001966.55 6001966.71 6001966.86 0.0485 0.0145

Uranus 11720-09-22 16:19 G 6001967.08 6001967.18 6001967.29 0.0145 0.0111

Venus 11720-12-18 07:40 G 6002053.73 6002053.82 6002053.91 0.3686 0.2703

Uranus 11720-12-19 22:48 G 6002055.32 6002055.45 6002055.60 0.0145 0.0085

Uranus 11721-03-18 05:31 G 6002143.58 6002143.73 6002143.89 0.0145 0.0058

Uranus 11721-06-14 12:14 G 6002231.85 6002232.01 6002232.18 0.0145 0.0032

Uranus 11721-09-10 19:11 G 6002320.12 6002320.30 6002320.47 0.0145 0.0005

Uranus 11721-12-08 01:55 G 6002408.41 6002408.58 6002408.75 0.0145 0.0023

Uranus 11722-03-06 08:52 G 6002496.70 6002496.87 6002497.03 0.0145 0.0050

Uranus 11722-06-02 15:36 G 6002585.01 6002585.15 6002585.30 0.0145 0.0078

Uranus 11722-08-29 22:19 G 6002673.33 6002673.43 6002673.56 0.0145 0.0106

Uranus 11722-11-26 05:16 G 6002761.67 6002761.72 6002761.80 0.0145 0.0134

Venus 11724-12-20 11:02 G 6003516.85 6003516.96 6003517.07 0.3685 0.0143

Earth 11726-03-06 08:52 G 6003957.79 6003957.87 6003957.96 0.2657 0.1785

Moon 11726-03-06 09:36 G 6003957.82 6003957.90 6003957.98 0.2661 0.1925 *

Venus 11726-07-04 07:55 G 6004077.70 6004077.83 6004077.96 0.3685 0.0659

Jupiter 11726-08-27 10:48 G 6004131.82 6004131.95 6004132.09 0.0543 0.0193

Jupiter 11726-11-25 01:26 G 6004221.52 6004221.56 6004221.61 0.0544 0.0509

Mars 11727-03-28 14:52 G 6004345.01 6004345.12 6004345.23 0.1597 0.1106

Mars 11730-01-13 14:38 G 6005366.99 6005367.11 6005367.23 0.1935 0.0062

Venus 11730-07-06 05:02 G 6005540.60 6005540.71 6005540.81 0.3686 0.1165

Venus 11732-01-18 08:38 G 6006101.74 6006101.86 6006101.98 0.3685 0.1514

Saturn 11732-04-11 04:04 G 6006185.56 6006185.67 6006185.78 0.0284 0.0205

Saturn 11732-07-08 21:21 G 6006274.24 6006274.39 6006274.54 0.0284 0.0084

Jupiter 11732-07-11 06:28 G 6006276.60 6006276.77 6006276.93 0.0485 0.0013

Saturn 11732-10-05 14:52 G 6006362.96 6006363.12 6006363.28 0.0284 0.0041

Saturn 11733-01-02 08:52 G 6006451.74 6006451.87 6006452.01 0.0284 0.0168

Moon 11733-02-27 02:52 G 6006507.61 6006507.62 6006507.64 0.2656 0.2632

Earth 11733-02-27 03:50 G 6006507.63 6006507.66 6006507.68 0.2654 0.2576 *

Moon 11735-08-29 16:48 G 6007421.07 6007421.20 6007421.33 0.2682 0.0937

Earth 11735-08-29 17:45 G 6007421.11 6007421.24 6007421.37 0.2677 0.0907 *

Venus 11736-01-19 22:33 G 6007564.36 6007564.44 6007564.52 0.3686 0.2409

Jupiter 11738-06-15 11:31 G 6008441.88 6008441.98 6008442.08 0.0542 0.0390

Mars 11738-07-25 01:11 G 6008481.43 6008481.55 6008481.67 0.1604 0.1053

Jupiter 11738-09-13 02:38 G 6008531.50 6008531.61 6008531.73 0.0544 0.0322

Mars 11739-06-05 20:38 G 6008797.26 6008797.36 6008797.47 0.1938 0.0990

Venus 11741-08-04 16:04 G 6009588.15 6009588.17 6009588.18 0.3687 0.3621

Jupiter 11744-04-29 08:09 G 6010586.68 6010586.84 6010586.99 0.0485 0.0136

Jupiter 11744-07-28 01:55 G 6010676.52 6010676.58 6010676.63 0.0484 0.0454

Moon 11746-03-01 23:02 G 6011258.35 6011258.46 6011258.57 0.2662 0.1089

Earth 11746-03-01 23:16 G 6011258.36 6011258.47 6011258.58 0.2655 0.0979 *

Saturn 11747-02-13 14:38 G 6011607.02 6011607.11 6011607.22 0.0274 0.0203

Saturn 11747-05-13 04:48 G 6011695.56 6011695.70 6011695.84 0.0274 0.0098

Saturn 11747-08-09 18:28 G 6011784.13 6011784.27 6011784.42 0.0274 0.0009

Saturn 11747-11-06 07:55 G 6011872.70 6011872.83 6011872.97 0.0274 0.0106

Mars 11747-12-15 05:31 G 6011911.58 6011911.73 6011911.89 0.1602 0.0343

Saturn 11748-02-02 21:07 G 6011961.29 6011961.38 6011961.48 0.0274 0.0205

Earth 11748-08-31 19:26 G 6012172.19 6012172.31 6012172.43 0.2675 0.1415

Moon 11748-08-31 19:40 G 6012172.20 6012172.32 6012172.44 0.2682 0.1357 *

Jupiter 11750-07-02 05:02 G 6012841.57 6012841.71 6012841.84 0.0544 0.0153

Mars 11750-10-02 01:11 G 6012933.52 6012933.55 6012933.58 0.1927 0.1846

Neptune 11754-02-08 16:48 G 6014159.18 6014159.20 6014159.25 0.0089 0.0087

Neptune 11754-05-07 18:43 G 6014247.22 6014247.28 6014247.36 0.0089 0.0079

Neptune 11754-08-03 20:52 G 6014335.28 6014335.37 6014335.46 0.0089 0.0071

Neptune 11754-10-30 22:48 G 6014423.35 6014423.45 6014423.56 0.0089 0.0063

Neptune 11755-01-27 00:28 G 6014511.42 6014511.52 6014511.65 0.0089 0.0056

Neptune 11755-04-25 02:23 G 6014599.49 6014599.60 6014599.74 0.0089 0.0048

Neptune 11755-07-22 04:33 G 6014687.56 6014687.69 6014687.83 0.0089 0.0040

Neptune 11755-10-18 06:28 G 6014775.63 6014775.77 6014775.91 0.0089 0.0032

Neptune 11756-01-14 08:09 G 6014863.71 6014863.84 6014863.99 0.0089 0.0025

Jupiter 11756-02-16 09:36 G 6014896.77 6014896.90 6014897.03 0.0486 0.0279

Neptune 11756-04-11 10:04 G 6014951.78 6014951.92 6014952.07 0.0089 0.0017

Jupiter 11756-05-16 02:38 G 6014986.49 6014986.61 6014986.74 0.0485 0.0305

Neptune 11756-07-08 12:00 G 6015039.86 6015040.00 6015040.15 0.0089 0.0009

Neptune 11756-10-04 13:55 G 6015127.93 6015128.08 6015128.23 0.0089 0.0002

Neptune 11756-12-31 15:50 G 6015216.01 6015216.16 6015216.31 0.0089 0.0006

Neptune 11757-03-29 17:31 G 6015304.09 6015304.23 6015304.38 0.0089 0.0014

Mars 11757-05-06 10:19 G 6015341.78 6015341.93 6015342.08 0.1599 0.0349

Neptune 11757-06-25 19:26 G 6015392.17 6015392.31 6015392.46 0.0089 0.0022

Neptune 11757-09-21 21:07 G 6015480.25 6015480.38 6015480.53 0.0089 0.0030

Neptune 11757-12-18 23:02 G 6015568.33 6015568.46 6015568.60 0.0089 0.0037

Neptune 11758-03-17 00:43 G 6015656.41 6015656.53 6015656.67 0.0089 0.0044

Neptune 11758-06-13 02:38 G 6015744.50 6015744.61 6015744.73 0.0089 0.0052

Neptune 11758-09-09 04:33 G 6015832.58 6015832.69 6015832.80 0.0089 0.0059

Neptune 11758-12-06 06:00 G 6015920.67 6015920.75 6015920.86 0.0089 0.0067

Neptune 11759-03-04 07:55 G 6016008.76 6016008.83 6016008.92 0.0089 0.0074

Earth 11759-03-04 18:43 G 6016009.17 6016009.28 6016009.40 0.2656 0.0578

Moon 11759-03-04 19:11 G 6016009.18 6016009.30 6016009.41 0.2662 0.0700 *

Neptune 11759-05-31 09:36 G 6016096.85 6016096.90 6016096.97 0.0089 0.0081

Neptune 11759-08-27 11:16 G 6016184.97 6016184.97 6016185.00 0.0089 0.0089

Mars 11760-02-22 07:55 G 6016363.73 6016363.83 6016363.94 0.1931 0.0961

Saturn 11761-08-29 03:07 G 6016917.56 6016917.63 6016917.71 0.0285 0.0250

Saturn 11761-11-25 20:09 G 6017006.20 6017006.34 6017006.48 0.0285 0.0130

Saturn 11762-02-22 13:40 G 6017094.91 6017095.07 6017095.23 0.0284 0.0007

Jupiter 11762-04-20 07:26 G 6017151.67 6017151.81 6017151.95 0.0543 0.0017

Saturn 11762-05-22 07:26 G 6017183.66 6017183.81 6017183.96 0.0284 0.0120

Saturn 11762-08-19 01:40 G 6017272.49 6017272.57 6017272.65 0.0284 0.0248

Uranus 11763-04-07 14:09 G 6017504.02 6017504.09 6017504.16 0.0133 0.0115

Uranus 11763-07-04 18:00 G 6017592.15 6017592.25 6017592.35 0.0133 0.0098

Uranus 11763-09-30 21:21 G 6017680.29 6017680.39 6017680.52 0.0133 0.0081

Uranus 11763-12-28 01:11 G 6017768.43 6017768.55 6017768.69 0.0133 0.0063

Uranus 11764-03-25 05:02 G 6017856.58 6017856.71 6017856.85 0.0133 0.0045

Uranus 11764-06-21 08:38 G 6017944.72 6017944.86 6017945.00 0.0133 0.0027

Uranus 11764-09-17 12:14 G 6018032.87 6018033.01 6018033.16 0.0133 0.0010

Uranus 11764-12-14 15:50 G 6018121.02 6018121.16 6018121.31 0.0134 0.0009

Uranus 11765-03-12 19:26 G 6018209.17 6018209.31 6018209.45 0.0134 0.0025

Uranus 11765-06-08 23:02 G 6018297.33 6018297.46 6018297.60 0.0134 0.0042

Uranus 11765-09-05 02:38 G 6018385.48 6018385.61 6018385.74 0.0134 0.0059

Uranus 11765-12-02 06:00 G 6018473.64 6018473.75 6018473.87 0.0134 0.0077

Uranus 11766-02-28 09:21 G 6018561.80 6018561.89 6018562.00 0.0134 0.0094

Uranus 11766-05-27 12:57 G 6018649.97 6018650.04 6018650.12 0.0134 0.0111

Uranus 11766-08-23 16:33 G 6018738.15 6018738.19 6018738.23 0.0134 0.0127

Mars 11766-09-26 15:21 G 6018772.02 6018772.14 6018772.25 0.1597 0.1022

Jupiter 11767-12-05 11:02 G 6019206.89 6019206.96 6019207.05 0.0486 0.0418

Jupiter 11768-03-04 04:04 G 6019296.51 6019296.67 6019296.82 0.0485 0.0159

Mars 11769-07-14 14:38 G 6019793.99 6019794.11 6019794.23 0.1935 0.0064

Venus 11770-06-27 20:52 G 6020142.29 6020142.37 6020142.46 0.3685 0.2433

Earth 11772-03-06 13:55 G 6020760.01 6020760.08 6020760.15 0.2657 0.2104

Moon 11772-03-06 14:38 G 6020760.05 6020760.11 6020760.18 0.2661 0.2167 *

Jupiter 11774-02-06 09:36 G 6021461.77 6021461.90 6021462.04 0.0543 0.0183

Jupiter 11774-05-07 00:14 G 6021551.48 6021551.51 6021551.55 0.0544 0.0520

Venus 11776-01-11 15:07 G 6022166.02 6022166.13 6022166.24 0.3685 0.1062

Saturn 11776-07-02 14:38 G 6022339.05 6022339.11 6022339.18 0.0274 0.0245

Saturn 11776-09-29 04:48 G 6022427.58 6022427.70 6022427.83 0.0274 0.0140

Saturn 11776-12-26 18:43 G 6022516.13 6022516.28 6022516.43 0.0274 0.0036

Saturn 11777-03-25 08:23 G 6022604.70 6022604.85 6022604.99 0.0275 0.0067

Saturn 11777-06-21 21:36 G 6022693.29 6022693.40 6022693.52 0.0275 0.0166

Venus 11777-07-25 07:26 G 6022726.70 6022726.81 6022726.92 0.3686 0.2101

Saturn 11777-09-18 10:48 G 6022781.91 6022781.95 6022781.98 0.0275 0.0264

Mars 11778-01-23 01:26 G 6022908.45 6022908.56 6022908.67 0.1604 0.1139

Mars 11778-12-04 20:52 G 6023224.26 6023224.37 6023224.48 0.1938 0.0893

Moon 11779-02-28 08:09 G 6023309.79 6023309.84 6023309.89 0.2658 0.2359

Earth 11779-02-28 08:52 G 6023309.81 6023309.87 6023309.93 0.2654 0.2236 *

Jupiter 11779-12-22 05:02 G 6023606.55 6023606.71 6023606.87 0.0485 0.0011

Venus 11781-07-27 09:07 G 6024189.77 6024189.88 6024189.99 0.3686 0.0265

Moon 11781-08-29 23:02 G 6024223.32 6024223.46 6024223.59 0.2682 0.0607

Earth 11781-08-29 23:31 G 6024223.34 6024223.48 6024223.62 0.2676 0.0454 *

Venus 11783-02-08 07:40 G 6024750.69 6024750.82 6024750.96 0.3685 0.0107

Jupiter 11785-11-25 11:16 G 6025771.87 6025771.97 6025772.08 0.0542 0.0363

Jupiter 11786-02-23 02:23 G 6025861.50 6025861.60 6025861.71 0.0543 0.0347

Venus 11787-02-10 02:52 G 6026213.52 6026213.62 6026213.72 0.3686 0.1553

Mars 11787-06-15 06:00 G 6026338.60 6026338.75 6026338.90 0.1602 0.0434

Mars 11788-04-26 02:52 G 6026654.59 6026654.62 6026654.65 0.1940 0.1865

Venus 11788-08-24 08:38 G 6026774.76 6026774.86 6026774.97 0.3684 0.2196

Saturn 11791-04-14 20:38 G 6027738.24 6027738.36 6027738.49 0.0284 0.0167

Saturn 11791-07-12 14:09 G 6027826.93 6027827.09 6027827.24 0.0284 0.0044

Saturn 11791-10-09 07:40 G 6027915.67 6027915.82 6027915.98 0.0284 0.0082

Jupiter 11791-10-10 06:43 G 6027916.62 6027916.78 6027916.93 0.0485 0.0129

Saturn 11792-01-06 01:55 G 6028004.47 6028004.58 6028004.69 0.0284 0.0209

Jupiter 11792-01-08 00:28 G 6028006.47 6028006.52 6028006.57 0.0485 0.0462

Moon 11792-03-02 04:04 G 6028060.56 6028060.67 6028060.79 0.2662 0.0626

Earth 11792-03-02 04:19 G 6028060.57 6028060.68 6028060.80 0.2655 0.0652 *

Venus 11792-08-25 20:38 G 6028237.29 6028237.36 6028237.43 0.3687 0.2791

Earth 11794-09-02 01:26 G 6028974.46 6028974.56 6028974.66 0.2675 0.1883

Moon 11794-09-02 01:40 G 6028974.48 6028974.57 6028974.66 0.2682 0.2017 *

Mars 11796-11-04 10:48 G 6029768.80 6029768.95 6029769.10 0.1599 0.0257

Jupiter 11797-12-12 03:36 G 6030171.51 6030171.65 6030171.78 0.0543 0.0157

Mars 11799-08-23 08:09 G 6030790.74 6030790.84 6030790.94 0.1931 0.1048

Jupiter 11803-07-30 08:23 G 6032226.72 6032226.85 6032226.99 0.0486 0.0266

Jupiter 11803-10-28 01:40 G 6032316.45 6032316.57 6032316.70 0.0485 0.0319

Uranus 11804-07-17 17:02 G 6032580.15 6032580.21 6032580.30 0.0145 0.0131

Uranus 11804-10-13 23:45 G 6032668.38 6032668.49 6032668.62 0.0145 0.0104

Uranus 11805-01-10 06:28 G 6032756.63 6032756.77 6032756.92 0.0145 0.0077

Earth 11805-03-05 23:45 G 6032811.38 6032811.49 6032811.60 0.2656 0.0909

Moon 11805-03-06 00:14 G 6032811.40 6032811.51 6032811.62 0.2662 0.0922 *

Uranus 11805-04-08 12:57 G 6032844.89 6032845.04 6032845.21 0.0145 0.0051

Uranus 11805-07-05 19:55 G 6032933.16 6032933.33 6032933.50 0.0145 0.0024

Uranus 11805-10-02 02:38 G 6033021.44 6033021.61 6033021.79 0.0145 0.0003

Saturn 11805-11-20 17:31 G 6033071.20 6033071.23 6033071.26 0.0274 0.0267

Uranus 11805-12-29 09:21 G 6033109.72 6033109.89 6033110.07 0.0145 0.0031

Saturn 11806-02-17 07:26 G 6033159.70 6033159.81 6033159.94 0.0274 0.0162

Uranus 11806-03-27 16:19 G 6033198.02 6033198.18 6033198.34 0.0145 0.0058

Mars 11806-03-28 15:50 G 6033199.03 6033199.16 6033199.28 0.1597 0.0929

Saturn 11806-05-16 21:36 G 6033248.25 6033248.40 6033248.54 0.0274 0.0058

Uranus 11806-06-23 23:02 G 6033286.33 6033286.46 6033286.61 0.0145 0.0086

Saturn 11806-08-13 11:02 G 6033336.82 6033336.96 6033337.11 0.0274 0.0045

Uranus 11806-09-20 06:14 G 6033374.65 6033374.76 6033374.87 0.0145 0.0113

Saturn 11806-11-10 00:28 G 6033425.40 6033425.52 6033425.64 0.0274 0.0144

Uranus 11806-12-17 12:57 G 6033463.02 6033463.04 6033463.09 0.0145 0.0141

Saturn 11807-02-06 13:26 G 6033514.00 6033514.06 6033514.13 0.0275 0.0243

Mars 11809-01-13 14:38 G 6034220.99 6034221.11 6034221.23 0.1935 0.0148

Jupiter 11809-10-01 05:31 G 6034481.59 6034481.73 6034481.87 0.0543 0.0020

Moon 11814-08-29 02:52 G 6036274.56 6036274.62 6036274.67 0.2681 0.2423

Earth 11814-08-29 04:04 G 6036274.60 6036274.67 6036274.74 0.2678 0.2251 *

Jupiter 11815-05-18 10:04 G 6036536.84 6036536.92 6036537.01 0.0486 0.0407

Jupiter 11815-08-16 02:52 G 6036626.47 6036626.62 6036626.77 0.0485 0.0170

Mars 11815-08-18 20:52 G 6036629.36 6036629.37 6036629.39 0.1595 0.1585

Mars 11817-07-25 02:09 G 6037335.49 6037335.59 6037335.69 0.1604 0.1241

Earth 11818-03-08 18:57 G 6037562.24 6037562.29 6037562.33 0.2658 0.2423

Moon 11818-03-08 19:40 G 6037562.30 6037562.32 6037562.34 0.2659 0.2584 *

Mars 11818-06-05 20:52 G 6037651.26 6037651.37 6037651.48 0.1938 0.0809

Saturn 11820-09-01 19:55 G 6038470.23 6038470.33 6038470.44 0.0285 0.0210

Saturn 11820-11-29 12:57 G 6038558.89 6038559.04 6038559.20 0.0285 0.0090

Saturn 11821-02-26 06:43 G 6038647.62 6038647.78 6038647.94 0.0284 0.0036

Saturn 11821-05-26 00:28 G 6038736.39 6038736.52 6038736.66 0.0284 0.0162

Venus 11821-07-20 00:43 G 6038791.49 6038791.53 6038791.57 0.3684 0.3411

Jupiter 11821-07-20 07:55 G 6038791.70 6038791.83 6038791.96 0.0543 0.0184

Jupiter 11821-10-17 22:48 G 6038881.41 6038881.45 6038881.49 0.0544 0.0520

Moon 11825-03-01 13:26 G 6040111.98 6040112.06 6040112.14 0.2660 0.1973

Earth 11825-03-01 13:55 G 6040112.00 6040112.08 6040112.16 0.2654 0.1897 *

Mars 11826-12-15 06:28 G 6040765.62 6040765.77 6040765.92 0.1601 0.0525

Venus 11827-02-02 19:11 G 6040815.20 6040815.30 6040815.39 0.3685 0.2008

Jupiter 11827-06-04 04:19 G 6040936.52 6040936.68 6040936.84 0.0485 0.0028

Moon 11827-09-01 05:02 G 6041025.57 6041025.71 6041025.85 0.2683 0.0069

Earth 11827-09-01 05:31 G 6041025.59 6041025.73 6041025.87 0.2676 0.0031 *

Mars 11827-10-27 03:07 G 6041081.58 6041081.63 6041081.67 0.1941 0.1778

Venus 11828-08-16 07:11 G 6041375.76 6041375.80 6041375.84 0.3686 0.3475

Venus 11832-08-18 13:11 G 6042838.94 6042839.05 6042839.16 0.3685 0.0658

Jupiter 11833-05-08 10:04 G 6043101.82 6043101.92 6043102.03 0.0542 0.0354

Jupiter 11833-08-06 01:11 G 6043191.45 6043191.55 6043191.66 0.0544 0.0358

Venus 11834-03-02 07:11 G 6043399.68 6043399.80 6043399.92 0.3685 0.1480

Saturn 11835-07-07 07:26 G 6043891.71 6043891.81 6043891.91 0.0274 0.0205

Saturn 11835-10-03 21:21 G 6043980.26 6043980.39 6043980.53 0.0274 0.0100

Saturn 11835-12-31 11:16 G 6044068.82 6044068.97 6044069.11 0.0274 0.0007

Neptune 11836-02-02 00:57 G 6044101.50 6044101.54 6044101.60 0.0088 0.0083

Saturn 11836-03-29 00:43 G 6044157.39 6044157.53 6044157.66 0.0275 0.0104

Neptune 11836-04-30 03:21 G 6044189.56 6044189.64 6044189.73 0.0088 0.0075

Mars 11836-05-06 11:02 G 6044195.81 6044195.96 6044196.12 0.1599 0.0173

Saturn 11836-06-25 13:55 G 6044245.98 6044246.08 6044246.18 0.0275 0.0203

Neptune 11836-07-27 05:45 G 6044277.64 6044277.74 6044277.85 0.0088 0.0067

Neptune 11836-10-23 07:55 G 6044365.72 6044365.83 6044365.97 0.0088 0.0060

Neptune 11837-01-19 10:19 G 6044453.81 6044453.93 6044454.08 0.0088 0.0052

Neptune 11837-04-17 12:43 G 6044541.90 6044542.03 6044542.19 0.0088 0.0044

Neptune 11837-07-14 15:07 G 6044629.99 6044630.13 6044630.30 0.0088 0.0036

Neptune 11837-10-10 18:00 G 6044718.09 6044718.25 6044718.40 0.0088 0.0027

Neptune 11838-01-06 20:23 G 6044806.18 6044806.35 6044806.51 0.0088 0.0019

Venus 11838-03-04 07:11 G 6044862.69 6044862.80 6044862.91 0.3686 0.0669

Moon 11838-03-04 09:21 G 6044862.78 6044862.89 6044863.01 0.2662 0.0372 *

Earth 11838-03-04 09:36 G 6044862.78 6044862.90 6044863.01 0.2655 0.0326 *

Neptune 11838-04-04 22:48 G 6044894.28 6044894.45 6044894.62 0.0088 0.0011

Neptune 11838-07-02 01:11 G 6044982.38 6044982.55 6044982.72 0.0088 0.0003

Neptune 11838-09-28 03:36 G 6045070.49 6045070.65 6045070.82 0.0088 0.0006

Neptune 11838-12-25 06:00 G 6045158.59 6045158.75 6045158.92 0.0088 0.0014

Mars 11839-02-22 08:09 G 6045217.75 6045217.84 6045217.94 0.1931 0.1141

Jupiter 11839-03-23 05:16 G 6045246.57 6045246.72 6045246.88 0.0485 0.0121

Neptune 11839-03-23 08:38 G 6045246.70 6045246.86 6045247.02 0.0088 0.0022 *

Neptune 11839-06-19 11:02 G 6045334.81 6045334.96 6045335.12 0.0088 0.0030

Jupiter 11839-06-20 23:02 G 6045336.43 6045336.46 6045336.50 0.0485 0.0471

Neptune 11839-09-15 13:26 G 6045422.92 6045423.06 6045423.22 0.0088 0.0039

Venus 11839-09-16 07:40 G 6045423.69 6045423.82 6045423.95 0.3685 0.0646

Neptune 11839-12-12 16:04 G 6045511.03 6045511.17 6045511.32 0.0088 0.0047

Neptune 11840-03-09 18:43 G 6045599.15 6045599.28 6045599.41 0.0088 0.0055

Neptune 11840-06-05 20:52 G 6045687.27 6045687.37 6045687.50 0.0088 0.0064

Neptune 11840-09-01 23:31 G 6045775.40 6045775.48 6045775.59 0.0088 0.0072

Earth 11840-09-03 07:11 G 6045776.74 6045776.80 6045776.87 0.2675 0.2354

Moon 11840-09-03 07:40 G 6045776.75 6045776.82 6045776.89 0.2682 0.2324 *

Neptune 11840-11-29 01:55 G 6045863.53 6045863.58 6045863.67 0.0088 0.0081

Venus 11843-09-18 00:57 G 6046886.45 6046886.54 6046886.64 0.3686 0.1940

Jupiter 11845-02-24 11:31 G 6047411.97 6047411.98 6047412.00 0.0542 0.0536

Venus 11845-04-01 08:52 G 6047447.79 6047447.87 6047447.95 0.3684 0.2887

Jupiter 11845-05-25 03:21 G 6047501.51 6047501.64 6047501.77 0.0543 0.0183

Mars 11845-09-26 16:04 G 6047626.04 6047626.17 6047626.30 0.1597 0.0842

Uranus 11847-01-30 18:00 G 6048117.22 6048117.25 6048117.31 0.0133 0.0126

Uranus 11847-04-28 21:50 G 6048205.34 6048205.41 6048205.50 0.0133 0.0108

Uranus 11847-07-26 01:40 G 6048293.47 6048293.57 6048293.68 0.0133 0.0090

Uranus 11847-10-22 05:31 G 6048381.61 6048381.73 6048381.85 0.0133 0.0073

Uranus 11848-01-18 09:07 G 6048469.75 6048469.88 6048470.01 0.0133 0.0055

Uranus 11848-04-15 12:43 G 6048557.90 6048558.03 6048558.17 0.0133 0.0038

Uranus 11848-07-12 16:33 G 6048646.05 6048646.19 6048646.33 0.0133 0.0020

Mars 11848-07-14 14:52 G 6048648.00 6048648.12 6048648.24 0.1935 0.0233

Uranus 11848-10-08 20:09 G 6048734.20 6048734.34 6048734.48 0.0134 0.0003

Uranus 11849-01-04 23:45 G 6048822.35 6048822.49 6048822.63 0.0134 0.0015

Venus 11849-04-02 18:28 G 6048910.22 6048910.27 6048910.33 0.3687 0.3169

Uranus 11849-04-03 03:21 G 6048910.50 6048910.64 6048910.78 0.0134 0.0032

Uranus 11849-06-30 06:43 G 6048998.65 6048998.78 6048998.92 0.0134 0.0049

Uranus 11849-09-26 10:19 G 6049086.81 6049086.93 6049087.06 0.0134 0.0066

Uranus 11849-12-23 13:40 G 6049174.97 6049175.07 6049175.19 0.0134 0.0084

Saturn 11850-01-19 19:55 G 6049202.26 6049202.33 6049202.41 0.0285 0.0249

Uranus 11850-03-21 17:31 G 6049263.13 6049263.23 6049263.32 0.0134 0.0100

Saturn 11850-04-18 12:57 G 6049290.90 6049291.04 6049291.19 0.0284 0.0129

Uranus 11850-06-17 20:52 G 6049351.30 6049351.37 6049351.44 0.0134 0.0117

Saturn 11850-07-16 06:28 G 6049379.61 6049379.77 6049379.93 0.0284 0.0007

Uranus 11850-09-14 00:14 G 6049439.51 6049439.51 6049439.51 0.0134 0.0134

Saturn 11850-10-13 00:28 G 6049468.37 6049468.52 6049468.66 0.0284 0.0121

Jupiter 11851-01-09 07:11 G 6049556.66 6049556.80 6049556.93 0.0486 0.0258

Saturn 11851-01-09 18:28 G 6049557.20 6049557.27 6049557.35 0.0284 0.0249

Earth 11851-03-07 04:48 G 6049613.60 6049613.70 6049613.80 0.2657 0.1232

Moon 11851-03-07 05:16 G 6049613.62 6049613.72 6049613.82 0.2662 0.1384 *

Jupiter 11851-04-09 00:28 G 6049646.40 6049646.52 6049646.64 0.0485 0.0327

Mars 11855-02-16 21:21 G 6051056.34 6051056.39 6051056.44 0.1595 0.1498

Mars 11857-01-23 02:38 G 6051762.52 6051762.61 6051762.69 0.1604 0.1335

Jupiter 11857-03-13 04:04 G 6051811.53 6051811.67 6051811.81 0.0543 0.0018

Mars 11857-12-04 21:07 G 6052078.26 6052078.38 6052078.49 0.1938 0.0718

Pluto 11860-08-13 12:57 G 6053061.01 6053061.04 6053061.09 0.0071 0.0067

Moon 11860-08-29 08:52 G 6053076.77 6053076.87 6053076.96 0.2681 0.1956

Earth	11860-08-29 09:50 G	6053076.81	6053076.91	6053077.01	0.2678	0.1805	*
Pluto	11860-11-09 13:40 G	6053149.00	6053149.07	6053149.15	0.0071	0.0058	
Pluto	11861-02-05 14:23 G	6053237.01	6053237.10	6053237.20	0.0071	0.0049	
Pluto	11861-05-04 15:07 G	6053325.03	6053325.13	6053325.25	0.0071	0.0040	
Pluto	11861-07-31 15:50 G	6053413.04	6053413.16	6053413.29	0.0071	0.0031	
Pluto	11861-10-27 16:48 G	6053501.07	6053501.20	6053501.32	0.0071	0.0022	
Pluto	11862-01-23 17:31 G	6053589.09	6053589.23	6053589.36	0.0072	0.0013	
Pluto	11862-04-21 18:14 G	6053677.12	6053677.26	6053677.39	0.0072	0.0003	
Pluto	11862-07-18 18:57 G	6053765.15	6053765.29	6053765.42	0.0072	0.0006	
Pluto	11862-10-14 19:40 G	6053853.19	6053853.32	6053853.45	0.0072	0.0016	
Jupiter	11862-10-28 09:07 G	6053866.79	6053866.88	6053866.97	0.0486	0.0394	
Pluto	11863-01-10 20:23 G	6053941.23	6053941.35	6053941.48	0.0072	0.0025	
Jupiter	11863-01-26 01:55 G	6053956.43	6053956.58	6053956.73	0.0485	0.0185	
Pluto	11863-04-08 21:07 G	6054029.27	6054029.38	6054029.50	0.0072	0.0035	
Pluto	11863-07-05 21:36 G	6054117.31	6054117.40	6054117.52	0.0072	0.0045	
Pluto	11863-10-01 22:33 G	6054205.36	6054205.44	6054205.53	0.0072	0.0055	
Pluto	11863-12-28 23:16 G	6054293.42	6054293.47	6054293.54	0.0073	0.0065	
Saturn	11864-11-23 10:04 G	6054623.84	6054623.92	6054624.00	0.0274	0.0227	
Saturn	11865-02-20 00:00 G	6054712.37	6054712.50	6054712.64	0.0274	0.0123	
Saturn	11865-05-19 13:55 G	6054800.94	6054801.08	6054801.23	0.0274	0.0020	
Saturn	11865-08-16 03:36 G	6054889.51	6054889.65	6054889.79	0.0274	0.0083	
Saturn	11865-11-12 16:48 G	6054978.09	6054978.20	6054978.31	0.0275	0.0182	
Mars	11866-06-15 06:57 G	6055192.65	6055192.79	6055192.94	0.1602	0.0622	
Mars	11867-04-27 03:07 G	6055508.58	6055508.63	6055508.69	0.1940	0.1679	
Jupiter	11868-12-30 06:00 G	6056121.62	6056121.75	6056121.89	0.0543	0.0188	
Jupiter	11869-03-29 20:52 G	6056211.33	6056211.37	6056211.41	0.0544	0.0516	
Moon	11871-03-02 18:28 G	6056914.18	6056914.27	6056914.36	0.2660	0.1639	
Earth	11871-03-02 18:57 G	6056914.20	6056914.29	6056914.39	0.2654	0.1564	*
Moon	11873-09-01 11:02 G	6057827.83	6057827.96	6057828.10	0.2683	0.0421	
Earth	11873-09-01 11:16 G	6057827.83	6057827.97	6057828.11	0.2676	0.0475	*

Jupiter 11874-11-14 03:07 G 6058266.47 6058266.63 6058266.79 0.0485 0.0038

Mars 11875-11-05 11:31 G 6058622.83 6058622.98 6058623.14 0.1599 0.0087

Venus 11878-02-23 23:02 G 6059464.39 6059464.46 6059464.52 0.3684 0.2973

Mars 11878-08-23 08:23 G 6059644.76 6059644.85 6059644.94 0.1931 0.1228

Saturn 11879-09-05 12:43 G 6060022.90 6060023.03 6060023.15 0.0285 0.0171

Saturn 11879-12-03 05:45 G 6060111.59 6060111.74 6060111.90 0.0284 0.0049

Saturn 11880-02-29 23:31 G 6060200.32 6060200.48 6060200.64 0.0284 0.0076

Saturn 11880-05-28 17:31 G 6060289.12 6060289.23 6060289.34 0.0284 0.0203

Jupiter 11880-10-18 08:09 G 6060431.74 6060431.84 6060431.95 0.0543 0.0358

Jupiter 11881-01-15 23:31 G 6060521.38 6060521.48 6060521.59 0.0544 0.0356

Venus 11883-09-09 17:16 G 6061488.12 6061488.22 6061488.32 0.3685 0.1580

Earth 11884-03-04 14:38 G 6061664.99 6061665.11 6061665.23 0.2655 0.0057

Moon 11884-03-04 14:38 G 6061665.00 6061665.11 6061665.23 0.2662 0.0112 *

Venus 11885-03-23 06:57 G 6062048.71 6062048.79 6062048.87 0.3686 0.2877

Mars 11885-03-27 16:33 G 6062053.05 6062053.19 6062053.32 0.1597 0.0758

Jupiter 11886-09-02 04:33 G 6062576.53 6062576.69 6062576.85 0.0485 0.0104

Mars 11888-01-13 14:52 G 6063075.00 6063075.12 6063075.24 0.1935 0.0314

Uranus 11888-08-07 01:26 G 6063281.47 6063281.56 6063281.65 0.0145 0.0121

Uranus 11888-11-03 07:55 G 6063369.70 6063369.83 6063369.96 0.0145 0.0094

Uranus 11889-01-30 14:23 G 6063457.96 6063458.10 6063458.26 0.0145 0.0068

Venus 11889-03-25 11:31 G 6063511.86 6063511.98 6063512.09 0.3685 0.0261

Uranus 11889-04-28 21:07 G 6063546.22 6063546.38 6063546.55 0.0145 0.0041

Uranus 11889-07-26 03:50 G 6063634.49 6063634.66 6063634.84 0.0145 0.0015

Uranus 11889-10-22 10:48 G 6063722.77 6063722.95 6063723.12 0.0145 0.0013

Uranus 11890-01-18 17:31 G 6063811.06 6063811.23 6063811.40 0.0145 0.0040

Uranus 11890-04-17 00:14 G 6063899.36 6063899.51 6063899.67 0.0145 0.0068

Uranus 11890-07-14 07:11 G 6063987.67 6063987.80 6063987.94 0.0145 0.0095

Venus 11890-10-07 06:57 G 6064072.66 6064072.79 6064072.92 0.3685 0.0852

Uranus 11890-10-10 14:09 G 6064076.00 6064076.09 6064076.19 0.0145 0.0123

Jupiter 11892-08-06 10:19 G 6064741.90 6064741.93 6064741.96 0.0542 0.0528

Jupiter 11892-11-04 02:09 G 6064831.46 6064831.59 6064831.72 0.0544 0.0192

Saturn 11894-04-12 09:36 G 6065355.89 6065355.90 6065355.93 0.0274 0.0271

Saturn 11894-07-10 00:00 G 6065444.38 6065444.50 6065444.62 0.0274 0.0165

Mars 11894-08-17 21:50 G 6065483.34 6065483.41 6065483.48 0.1595 0.1412

Saturn 11894-10-06 13:55 G 6065532.93 6065533.08 6065533.23 0.0274 0.0061

Venus 11894-10-09 05:16 G 6065535.62 6065535.72 6065535.83 0.3686 0.1072

Saturn 11895-01-03 03:36 G 6065621.50 6065621.65 6065621.80 0.0274 0.0041

Saturn 11895-04-01 17:02 G 6065710.08 6065710.21 6065710.33 0.0275 0.0142

Saturn 11895-06-29 06:00 G 6065798.69 6065798.75 6065798.82 0.0275 0.0240

Venus 11896-04-22 07:40 G 6066096.70 6066096.82 6066096.95 0.3685 0.1304

Mars 11896-07-24 02:52 G 6066189.55 6066189.62 6066189.69 0.1604 0.1427

Earth 11897-03-07 09:50 G 6066415.82 6066415.91 6066416.01 0.2657 0.1559

Moon 11897-03-07 10:33 G 6066415.84 6066415.94 6066416.03 0.2662 0.1589 *

Mars 11897-06-04 21:21 G 6066505.27 6066505.39 6066505.51 0.1938 0.0613

Jupiter 11898-06-21 05:45 G 6066886.61 6066886.74 6066886.88 0.0486 0.0249

Jupiter 11898-09-18 23:02 G 6066976.35 6066976.46 6066976.58 0.0485 0.0336

Venus 11900-04-24 23:02 G 6067559.38 6067559.46 6067559.54 0.3686 0.2324

Venus 11901-11-07 08:52 G 6068120.85 6068120.87 6068120.90 0.3684 0.3584

Jupiter 11904-08-24 04:04 G 6069141.53 6069141.67 6069141.81 0.0543 0.0018

Venus 11905-11-08 16:33 G 6069583.16 6069583.19 6069583.22 0.3687 0.3539

Mars 11905-12-15 07:26 G 6069619.67 6069619.81 6069619.95 0.1602 0.0713

Moon 11906-08-31 14:52 G 6069879.00 6069879.12 6069879.23 0.2682 0.1430

Earth 11906-08-31 15:36 G 6069879.03 6069879.15 6069879.27 0.2677 0.1357 *

Mars 11906-10-27 03:21 G 6069935.57 6069935.64 6069935.71 0.1940 0.1591

Saturn 11909-01-23 12:14 G 6070754.91 6070755.01 6070755.12 0.0285 0.0212

Saturn 11909-04-22 05:31 G 6070843.58 6070843.73 6070843.88 0.0284 0.0091

Saturn 11909-07-19 23:02 G 6070932.30 6070932.46 6070932.62 0.0284 0.0033

Saturn 11909-10-16 16:48 G 6071021.07 6071021.20 6071021.34 0.0284 0.0161

Jupiter 11910-04-10 07:40 G 6071196.73 6071196.82 6071196.92 0.0486 0.0386

Jupiter 11910-07-09 00:28 G 6071286.37 6071286.52 6071286.67 0.0485 0.0193

Mars 11915-05-07 12:00 G 6073049.85 6073050.00 6073050.16 0.1599 0.0026

Jupiter 11916-06-12 04:48 G 6073451.56 6073451.70 6073451.83 0.0543 0.0180

Jupiter 11916-09-09 19:26 G 6073541.28 6073541.31 6073541.35 0.0544 0.0522

Moon 11917-03-03 23:45 G 6073716.39 6073716.49 6073716.59 0.2660 0.1312

Earth 11917-03-04 00:14 G 6073716.40 6073716.51 6073716.61 0.2654 0.1225 *

Mars 11918-02-22 08:23 G 6074071.76 6074071.85 6074071.93 0.1931 0.1311

Neptune 11918-11-07 15:36 G 6074330.11 6074330.15 6074330.19 0.0089 0.0086

Neptune 11919-02-03 17:31 G 6074418.16 6074418.23 6074418.30 0.0089 0.0078

Neptune 11919-05-02 19:11 G 6074506.22 6074506.30 6074506.41 0.0089 0.0070

Neptune 11919-07-29 21:07 G 6074594.29 6074594.38 6074594.50 0.0089 0.0063

Moon 11919-09-03 17:02 G 6074630.08 6074630.21 6074630.34 0.2683 0.0926

Earth 11919-09-03 17:16 G 6074630.08 6074630.22 6074630.35 0.2676 0.0937 *

Neptune 11919-10-25 23:16 G 6074682.36 6074682.47 6074682.59 0.0089 0.0054

Neptune 11920-01-22 01:11 G 6074770.43 6074770.55 6074770.68 0.0089 0.0047

Neptune 11920-04-19 03:07 G 6074858.50 6074858.63 6074858.77 0.0089 0.0039

Neptune 11920-07-16 05:02 G 6074946.57 6074946.71 6074946.85 0.0089 0.0031

Neptune 11920-10-12 06:57 G 6075034.65 6075034.79 6075034.94 0.0089 0.0023

Neptune 11921-01-08 08:52 G 6075122.72 6075122.87 6075123.02 0.0089 0.0016

Neptune 11921-04-06 10:48 G 6075210.80 6075210.95 6075211.10 0.0089 0.0008

Neptune 11921-07-03 12:43 G 6075298.88 6075299.03 6075299.17 0.0089 0.0002

Neptune 11921-09-29 14:23 G 6075386.96 6075387.10 6075387.25 0.0089 0.0008

Neptune 11921-12-26 16:19 G 6075475.04 6075475.18 6075475.33 0.0089 0.0015

Neptune 11922-03-24 18:00 G 6075563.11 6075563.25 6075563.40 0.0089 0.0023

Jupiter 11922-04-27 02:09 G 6075596.43 6075596.59 6075596.75 0.0485 0.0052

Neptune 11922-06-20 19:55 G 6075651.19 6075651.33 6075651.47 0.0089 0.0030

Neptune 11922-09-16 21:36 G 6075739.28 6075739.40 6075739.54 0.0089 0.0038

Neptune 11922-12-13 23:16 G 6075827.36 6075827.47 6075827.61 0.0089 0.0046

Neptune 11923-03-12 01:11 G 6075915.44 6075915.55 6075915.68 0.0089 0.0053

Neptune 11923-06-08 03:07 G 6076003.53 6076003.63 6076003.74 0.0089 0.0060

Neptune 11923-09-04 04:48 G 6076091.62 6076091.70 6076091.81 0.0089 0.0067

Saturn 11923-11-28 02:38 G 6076176.50 6076176.61 6076176.72 0.0274 0.0187

Neptune 11923-12-01 06:43 G 6076179.71 6076179.78 6076179.86 0.0089 0.0075

Saturn 11924-02-24 16:48 G 6076265.06 6076265.20 6076265.34 0.0274 0.0083

Neptune 11924-02-27 08:38 G 6076267.80 6076267.86 6076267.92 0.0089 0.0082

Saturn 11924-05-23 06:28 G 6076353.62 6076353.77 6076353.92 0.0275 0.0020

Neptune 11924-05-25 10:19 G 6076355.93 6076355.93 6076355.94 0.0089 0.0089

Saturn 11924-08-19 19:55 G 6076442.20 6076442.33 6076442.46 0.0275 0.0121

Mars 11924-09-26 17:02 G 6076480.07 6076480.21 6076480.35 0.1597 0.0662

Saturn 11924-11-16 09:07 G 6076530.80 6076530.88 6076530.97 0.0275 0.0220

Mars 11927-07-15 15:07 G 6077502.01 6077502.13 6077502.25 0.1935 0.0414

Jupiter 11928-03-31 06:28 G 6077761.66 6077761.77 6077761.87 0.0542 0.0360

Jupiter 11928-06-28 21:36 G 6077851.30 6077851.40 6077851.51 0.0544 0.0353

Earth 11930-03-06 19:40 G 6078467.20 6078467.32 6078467.44 0.2655 0.0348

Moon 11930-03-06 19:55 G 6078467.21 6078467.33 6078467.45 0.2662 0.0384 *

Uranus 11931-02-21 01:55 G 6078818.52 6078818.58 6078818.65 0.0133 0.0119

Uranus 11931-05-20 05:31 G 6078906.65 6078906.73 6078906.84 0.0133 0.0102

Uranus 11931-08-16 09:21 G 6078994.79 6078994.89 6078995.01 0.0133 0.0084

Uranus 11931-11-12 13:11 G 6079082.93 6079083.05 6079083.18 0.0133 0.0066

Uranus 11932-02-08 16:48 G 6079171.07 6079171.20 6079171.34 0.0133 0.0048

Uranus 11932-05-06 20:38 G 6079259.22 6079259.36 6079259.50 0.0133 0.0031

Uranus 11932-08-03 00:14 G 6079347.37 6079347.51 6079347.65 0.0133 0.0013

Uranus 11932-10-30 03:50 G 6079435.52 6079435.66 6079435.80 0.0134 0.0004

Uranus 11933-01-26 07:26 G 6079523.67 6079523.81 6079523.95 0.0134 0.0022

Uranus 11933-04-24 11:02 G 6079611.82 6079611.96 6079612.10 0.0134 0.0039

Uranus 11933-07-21 14:38 G 6079699.98 6079700.11 6079700.24 0.0134 0.0056

Uranus 11933-10-17 18:00 G 6079788.14 6079788.25 6079788.37 0.0134 0.0073

Uranus 11934-01-13 21:36 G 6079876.30 6079876.40 6079876.51 0.0134 0.0090

Jupiter 11934-02-13 03:21 G 6079906.49 6079906.64 6079906.80 0.0485 0.0094

Mars 11934-02-16 22:19 G 6079910.34 6079910.43 6079910.51 0.1595 0.1326

Uranus 11934-04-12 00:57 G 6079964.47 6079964.54 6079964.63 0.0134 0.0107

Uranus 11934-07-09 04:33 G 6080052.64 6080052.69 6080052.74 0.0134 0.0124

Venus 11934-10-01 21:07 G 6080137.30 6080137.38 6080137.47 0.3685 0.2538

Mars 11936-01-24 03:36 G 6080616.60 6080616.65 6080616.69 0.1604 0.1527

Mars 11936-12-04 21:21 G 6080932.27 6080932.39 6080932.50 0.1938 0.0539

Saturn 11938-06-12 12:14 G 6081486.95 6081487.01 6081487.09 0.0285 0.0251

Saturn 11938-09-09 05:16 G 6081575.58 6081575.72 6081575.87 0.0284 0.0131

Saturn 11938-12-06 22:48 G 6081664.29 6081664.45 6081664.61 0.0284 0.0009

Saturn 11939-03-05 16:33 G 6081753.04 6081753.19 6081753.33 0.0284 0.0118

Saturn 11939-06-02 10:33 G 6081841.86 6081841.94 6081842.02 0.0284 0.0245

Jupiter 11940-01-18 08:23 G 6082071.83 6082071.85 6082071.88 0.0542 0.0532

Venus 11940-04-16 15:36 G 6082161.04 6082161.15 6082161.25 0.3685 0.1166

Jupiter 11940-04-17 00:14 G 6082161.38 6082161.51 6082161.64 0.0544 0.0189

Venus 11941-10-29 06:43 G 6082721.67 6082721.78 6082721.88 0.3686 0.2278

Earth 11943-03-09 14:52 G 6083218.04 6083218.12 6083218.20 0.2657 0.1878

Moon 11943-03-09 15:36 G 6083218.07 6083218.15 6083218.22 0.2660 0.2011 *

Mars 11945-06-15 07:55 G 6084046.69 6084046.83 6084046.96 0.1602 0.0805

Venus 11945-10-31 09:36 G 6084184.79 6084184.90 6084185.01 0.3686 0.0182

Jupiter 11945-12-02 05:02 G 6084216.57 6084216.71 6084216.85 0.0486 0.0234

Jupiter 11946-03-01 22:19 G 6084306.32 6084306.43 6084306.54 0.0485 0.0351

Pluto 11946-04-05 16:04 G 6084341.08 6084341.17 6084341.29 0.0073 0.0062

Mars 11946-04-27 03:21 G 6084362.57 6084362.64 6084362.72 0.1941 0.1496

Pluto 11946-07-02 18:28 G 6084429.14 6084429.27 6084429.43 0.0073 0.0047

Pluto 11946-09-28 20:52 G 6084517.21 6084517.37 6084517.55 0.0073 0.0033

Pluto 11946-12-25 23:16 G 6084605.29 6084605.47 6084605.65 0.0073 0.0019

Pluto 11947-03-24 01:26 G 6084693.37 6084693.56 6084693.75 0.0073 0.0005

Venus 11947-05-15 06:57 G 6084745.65 6084745.79 6084745.92 0.3685 0.0234

Pluto 11947-06-20 03:36 G 6084781.47 6084781.65 6084781.84 0.0073 0.0009

Pluto 11947-09-16 05:31 G 6084869.57 6084869.73 6084869.93 0.0072 0.0023

Pluto 11947-12-13 07:55 G 6084957.67 6084957.83 6084958.00 0.0072 0.0036

Pluto 11948-03-10 09:50 G 6085045.79 6085045.91 6085046.07 0.0072 0.0049

Pluto 11948-06-06 12:00 G 6085133.92 6085134.00 6085134.11 0.0072 0.0063

Earth 11950-03-02 09:36 G 6085767.86 6085767.90 6085767.94 0.2653 0.2490

Venus 11951-05-17 03:21 G 6086208.54 6086208.64 6086208.74 0.3686 0.1463

Jupiter 11952-02-04 02:38 G 6086471.47 6086471.61 6086471.75 0.0543 0.0027

Moon 11952-08-31 20:52 G 6086681.24 6086681.37 6086681.49 0.2683 0.1066

Earth 11952-08-31 21:36 G 6086681.26 6086681.40 6086681.53 0.2677 0.0907 *

Venus 11952-11-28 07:40 G 6086769.71 6086769.82 6086769.94 0.3684 0.1978

Saturn 11953-04-16 02:23 G 6086908.52 6086908.60 6086908.68 0.0274 0.0230

Saturn 11953-07-13 16:33 G 6086997.06 6086997.19 6086997.33 0.0274 0.0125

Saturn 11953-10-10 06:28 G 6087085.62 6087085.77 6087085.92 0.0274 0.0022

Saturn 11954-01-06 19:55 G 6087174.19 6087174.33 6087174.48 0.0274 0.0081

Saturn 11954-04-05 09:21 G 6087262.78 6087262.89 6087263.00 0.0275 0.0180

Mars 11954-11-05 12:28 G 6087476.86 6087477.02 6087477.17 0.1599 0.0104

Venus 11956-11-29 20:52 G 6088232.30 6088232.37 6088232.45 0.3687 0.2703

Mars 11957-08-23 08:38 G 6088498.78 6088498.86 6088498.94 0.1931 0.1411

Jupiter 11957-09-20 06:28 G 6088526.67 6088526.77 6088526.87 0.0486 0.0377

Jupiter 11957-12-18 23:16 G 6088616.32 6088616.47 6088616.62 0.0485 0.0201

Moon 11963-03-05 05:02 G 6090518.60 6090518.71 6090518.82 0.2660 0.0893

Earth 11963-03-05 05:16 G 6090518.61 6090518.72 6090518.83 0.2654 0.0891 *

Jupiter 11963-11-23 04:33 G 6090781.55 6090781.69 6090781.83 0.0543 0.0153

Mars 11964-03-27 17:31 G 6090907.08 6090907.23 6090907.37 0.1597 0.0573

Moon 11965-09-03 23:02 G 6091432.34 6091432.46 6091432.58 0.2683 0.1420

Earth 11965-09-03 23:02 G 6091432.34 6091432.46 6091432.58 0.2676 0.1399 *

Mars 11967-01-13 15:07 G 6091929.01 6091929.13 6091929.25 0.1934 0.0500

Saturn 11968-01-27 04:48 G 6092307.58 6092307.70 6092307.83 0.0284 0.0174

Saturn 11968-04-24 22:04 G 6092396.27 6092396.42 6092396.58 0.0284 0.0052

Saturn 11968-07-22 15:50 G 6092485.00 6092485.16 6092485.32 0.0284 0.0073

Saturn 11968-10-19 09:50 G 6092573.80 6092573.91 6092574.03 0.0284 0.0200

Jupiter 11969-10-07 00:43 G 6092926.37 6092926.53 6092926.69 0.0485 0.0060

Uranus 11972-06-01 02:09 G 6093894.56 6093894.59 6093894.65 0.0145 0.0140

Uranus 11972-08-28 08:52 G 6093982.77 6093982.87 6093982.98 0.0145 0.0113

Uranus 11972-11-24 15:21 G 6094071.01 6094071.14 6094071.28 0.0145 0.0087

Uranus 11973-02-20 21:50 G 6094159.26 6094159.41 6094159.58 0.0145 0.0061

Uranus 11973-05-20 04:33 G 6094247.53 6094247.69 6094247.86 0.0145 0.0034

Uranus 11973-08-16 11:31 G 6094335.80 6094335.98 6094336.15 0.0145 0.0008

Mars 11973-08-17 22:33 G 6094337.35 6094337.44 6094337.54 0.1595 0.1236

Uranus 11973-11-12 18:14 G 6094424.09 6094424.26 6094424.43 0.0145 0.0020

Uranus 11974-02-09 00:57 G 6094512.38 6094512.54 6094512.71 0.0145 0.0047

Uranus 11974-05-08 07:40 G 6094600.68 6094600.82 6094600.98 0.0145 0.0075

Uranus 11974-08-04 14:38 G 6094688.99 6094689.11 6094689.24 0.0145 0.0102

Uranus 11974-10-31 21:36 G 6094777.33 6094777.40 6094777.48 0.0145 0.0130

Jupiter 11975-09-11 05:02 G 6095091.61 6095091.71 6095091.82 0.0542 0.0352

Jupiter 11975-12-09 20:23 G 6095181.25 6095181.35 6095181.45 0.0543 0.0359

Earth 11976-03-07 00:43 G 6095269.41 6095269.53 6095269.64 0.2656 0.0676

Moon 11976-03-07 00:57 G 6095269.43 6095269.54 6095269.65 0.2662 0.0709 *

Mars 11976-06-04 21:36 G 6095359.28 6095359.40 6095359.51 0.1938 0.0443

Jupiter 11981-07-26 02:23 G 6097236.44 6097236.60 6097236.76 0.0486 0.0081

Saturn 11982-09-03 05:02 G 6097640.66 6097640.71 6097640.77 0.0275 0.0253

Saturn 11982-11-30 19:11 G 6097729.18 6097729.30 6097729.43 0.0275 0.0147

Saturn 11983-02-27 09:07 G 6097817.74 6097817.88 6097818.03 0.0275 0.0044

Saturn 11983-05-26 22:48 G 6097906.31 6097906.45 6097906.60 0.0275 0.0059

Saturn 11983-08-23 12:14 G 6097994.89 6097995.01 6097995.13 0.0275 0.0159

Saturn 11983-11-20 01:26 G 6098083.51 6098083.56 6098083.61 0.0275 0.0257

Mars 11984-12-14 08:23 G 6098473.72 6098473.85 6098473.98 0.1602 0.0901

Earth 11985-08-30 02:09 G 6098732.58 6098732.59 6098732.60 0.2678 0.2671

Venus 11985-10-23 00:57 G 6098786.51 6098786.54 6098786.57 0.3684 0.3515

Mars 11985-10-26 03:36 G 6098789.56 6098789.65 6098789.73 0.1940 0.1404

Jupiter 11987-06-30 06:28 G 6099401.76 6099401.77 6099401.80 0.0542 0.0535

Jupiter 11987-09-27 22:19 G 6099491.30 6099491.43 6099491.56 0.0543 0.0186

Earth 11989-03-09 19:55 G 6100020.27 6100020.33 6100020.39 0.2657 0.2203

Moon	**11989-03-09 20:38 G**	**6100020.31**	**6100020.36**	**6100020.42**	**0.2658**	**0.2301**	*
Venus	**11991-05-08 19:26 G**	**6100810.22**	**6100810.31**	**6100810.40**	**0.3685**	**0.2105**	
Venus	**11992-11-19 06:28 G**	**6101370.76**	**6101370.77**	**6101370.79**	**0.3686**	**0.3638**	
Jupiter	**11993-05-14 03:50 G**	**6101546.51**	**6101546.66**	**6101546.80**	**0.0486**	**0.0225**	
Jupiter	**11993-08-11 20:52 G**	**6101636.27**	**6101636.37**	**6101636.48**	**0.0485**	**0.0360**	
Mars	**11994-05-06 12:57 G**	**6101903.89**	**6101904.04**	**6101904.19**	**0.1599**	**0.0199**	
Moon	**11996-03-02 13:55 G**	**6102570.02**	**6102570.08**	**6102570.15**	**0.2657**	**0.2192**	
Earth	**11996-03-02 14:38 G**	**6102570.05**	**6102570.11**	**6102570.18**	**0.2654**	**0.2155**	*
Venus	**11996-11-21 13:40 G**	**6102833.96**	**6102834.07**	**6102834.18**	**0.3685**	**0.0753**	
Mars	**11997-02-21 08:38 G**	**6102925.78**	**6102925.86**	**6102925.93**	**0.1931**	**0.1492**	
Saturn	**11997-06-15 05:31 G**	**6103039.63**	**6103039.73**	**6103039.84**	**0.0284**	**0.0208**	
Saturn	**11997-09-11 22:33 G**	**6103128.29**	**6103128.44**	**6103128.60**	**0.0284**	**0.0088**	
Saturn	**11997-12-09 16:04 G**	**6103217.01**	**6103217.17**	**6103217.33**	**0.0284**	**0.0036**	
Saturn	**11998-03-08 09:50 G**	**6103305.78**	**6103305.91**	**6103306.05**	**0.0284**	**0.0162**	
Venus	**11998-06-05 06:14 G**	**6103394.65**	**6103394.76**	**6103394.88**	**0.3685**	**0.1675**	
Moon	**11998-09-02 02:38 G**	**6103483.48**	**6103483.61**	**6103483.75**	**0.2684**	**0.0447**	
Earth	**11998-09-02 03:21 G**	**6103483.50**	**6103483.64**	**6103483.78**	**0.2677**	**0.0439**	*
Jupiter	**11999-07-17 00:43 G**	**6103801.39**	**6103801.53**	**6103801.67**	**0.0543**	**0.0018**	
Neptune	**12000-10-29 23:31 G**	**6104272.43**	**6104272.48**	**6104272.55**	**0.0088**	**0.0081**	

13TH MILLENNIUM CE

This is a list of transits of Mercury in the 13th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Neptune 12001-01-26 01:55 G 6104360.50 6104360.58 6104360.67 0.0088 0.0073

Neptune 12001-04-24 04:04 G 6104448.57 6104448.67 6104448.79 0.0088 0.0066

Neptune 12001-07-21 06:28 G 6104536.66 6104536.77 6104536.91 0.0088 0.0058

Neptune 12001-10-17 08:52 G 6104624.74 6104624.87 6104625.02 0.0088 0.0050

Neptune 12002-01-13 11:16 G 6104712.83 6104712.97 6104713.13 0.0088 0.0042

Neptune 12002-04-11 13:40 G 6104800.93 6104801.07 6104801.23 0.0088 0.0034

Venus 12002-06-07 07:40 G 6104857.71 6104857.82 6104857.93 0.3686 0.0575

Neptune 12002-07-08 16:04 G 6104889.02 6104889.17 6104889.34 0.0088 0.0026

Neptune 12002-10-04 18:28 G 6104977.12 6104977.27 6104977.45 0.0088 0.0018

Neptune 12002-12-31 21:07 G 6105065.22 6105065.38 6105065.55 0.0088 0.0009

Neptune 12003-03-29 23:31 G 6105153.32 6105153.48 6105153.65 0.0088 0.0003

Neptune 12003-06-26 02:09 G 6105241.42 6105241.59 6105241.75 0.0088 0.0007

Neptune 12003-09-22 04:33 G 6105329.52 6105329.69 6105329.86 0.0088 0.0015

Mars 12003-09-26 17:45 G 6105334.10 6105334.24 6105334.39 0.1597 0.0488

Neptune 12003-12-19 06:57 G 6105417.63 6105417.79 6105417.96 0.0088 0.0024

Venus 12003-12-20 06:43 G 6105418.65 6105418.78 6105418.92 0.3685 0.0435

Neptune 12004-03-16 09:21 G 6105505.74 6105505.89 6105506.05 0.0088 0.0032

Neptune 12004-06-12 12:00 G 6105593.85 6105594.00 6105594.15 0.0088 0.0040

Neptune 12004-09-08 14:09 G 6105681.97 6105682.09 6105682.25 0.0088 0.0049

Neptune 12004-12-05 16:48 G 6105770.08 6105770.20 6105770.34 0.0088 0.0057

Jupiter 12005-03-02 05:31 G 6105856.63 6105856.73 6105856.83 0.0486 0.0363

Neptune 12005-03-03 19:40 G 6105858.21 6105858.32 6105858.43 0.0088 0.0065

Jupiter 12005-05-30 22:19 G 6105946.28 6105946.43 6105946.57 0.0485 0.0215

Neptune 12005-05-30 21:50 G 6105946.33 6105946.41 6105946.52 0.0088 0.0074 *

Neptune 12005-08-27 00:28 G 6106034.47 6106034.52 6106034.59 0.0088 0.0082

Mars 12006-07-14 15:07 G 6106356.02 6106356.13 6106356.25 0.1935 0.0590

Venus 12007-12-22 01:26 G 6106881.46 6106881.56 6106881.65 0.3686 0.1843

Moon 12009-03-05 10:19 G 6107320.81 6107320.93 6107321.04 0.2661 0.0635

Earth 12009-03-05 10:19 G 6107320.81 6107320.93 6107321.05 0.2655 0.0557 *

Venus 12009-07-05 07:40 G 6107442.73 6107442.82 6107442.92 0.3684 0.2647

Jupiter 12011-05-05 03:07 G 6108111.49 6108111.63 6108111.76 0.0543 0.0150

Earth 12011-09-05 05:02 G 6108234.61 6108234.71 6108234.81 0.2676 0.1873

Moon 12011-09-05 05:16 G 6108234.62 6108234.72 6108234.82 0.2682 0.1874 *

Saturn 12012-04-18 19:11 G 6108461.20 6108461.30 6108461.41 0.0274 0.0189

Saturn 12012-07-16 09:21 G 6108549.75 6108549.89 6108550.03 0.0274 0.0084

Saturn 12012-10-12 23:02 G 6108638.32 6108638.46 6108638.61 0.0274 0.0019

Saturn 12013-01-09 12:28 G 6108726.89 6108727.02 6108727.16 0.0275 0.0120

Mars 12013-02-15 23:02 G 6108764.35 6108764.46 6108764.56 0.1595 0.1151

Saturn 12013-04-08 01:55 G 6108815.49 6108815.58 6108815.66 0.0275 0.0218

Venus 12013-07-06 18:57 G 6108905.23 6108905.29 6108905.35 0.3687 0.3078

Uranus 12014-12-15 05:45 G 6109431.72 6109431.74 6109431.77 0.0133 0.0131

Uranus 12015-03-13 09:36 G 6109519.83 6109519.90 6109519.98 0.0133 0.0113

Uranus 12015-06-09 13:26 G 6109607.96 6109608.06 6109608.16 0.0133 0.0095

Uranus 12015-09-05 17:02 G 6109696.10 6109696.21 6109696.33 0.0133 0.0077

Uranus 12015-12-02 20:52 G 6109784.24 6109784.37 6109784.50 0.0133 0.0059

Mars 12015-12-04 21:36 G 6109786.28 6109786.40 6109786.52 0.1938 0.0343

Uranus 12016-02-29 00:28 G 6109872.39 6109872.52 6109872.66 0.0133 0.0042

Uranus 12016-05-27 04:04 G 6109960.53 6109960.67 6109960.82 0.0133 0.0025

Uranus 12016-08-23 07:55 G 6110048.68 6110048.83 6110048.97 0.0134 0.0008

Uranus 12016-11-19 11:31 G 6110136.83 6110136.98 6110137.12 0.0134 0.0011

Uranus 12017-02-15 15:07 G 6110224.99 6110225.13 6110225.27 0.0134 0.0028

Jupiter 12017-03-18 23:16 G 6110256.31 6110256.47 6110256.63 0.0485 0.0067

Uranus 12017-05-14 18:28 G 6110313.14 6110313.27 6110313.41 0.0134 0.0045

Uranus 12017-08-10 22:04 G 6110401.30 6110401.42 6110401.55 0.0134 0.0062

Uranus 12017-11-07 01:26 G 6110489.46 6110489.56 6110489.68 0.0134 0.0080

Uranus 12018-02-03 05:16 G 6110577.62 6110577.72 6110577.81 0.0134 0.0096

Uranus 12018-05-02 08:38 G 6110665.79 6110665.86 6110665.94 0.0134 0.0113

Uranus 12018-07-29 12:00 G 6110753.98 6110754.00 6110754.04 0.0134 0.0130

Earth 12022-03-08 05:45 G 6112071.63 6112071.74 6112071.85 0.2656 0.1001

Moon 12022-03-08 06:00 G 6112071.65 6112071.75 6112071.86 0.2662 0.1091 *

Jupiter 12023-02-21 04:48 G 6112421.59 6112421.70 6112421.81 0.0542 0.0327

Jupiter 12023-05-21 20:09 G 6112511.24 6112511.34 6112511.43 0.0544 0.0384

Mars 12024-06-14 08:52 G 6112900.75 6112900.87 6112900.99 0.1602 0.0997

Mars 12025-04-26 03:50 G 6113216.57 6113216.66 6113216.74 0.1940 0.1311

Saturn 12026-11-02 04:48 G 6113771.64 6113771.70 6113771.78 0.0284 0.0252

Saturn 12027-01-29 21:50 G 6113860.27 6113860.41 6113860.55 0.0284 0.0132

Saturn 12027-04-28 15:21 G 6113948.97 6113949.14 6113949.30 0.0284 0.0012

Saturn 12027-07-26 08:52 G 6114037.73 6114037.87 6114038.02 0.0284 0.0116

Saturn 12027-10-23 02:52 G 6114126.55 6114126.62 6114126.71 0.0284 0.0244

Jupiter 12029-01-05 00:57 G 6114566.38 6114566.54 6114566.70 0.0486 0.0075

Moon 12031-08-31 06:57 G 6115534.72 6115534.79 6115534.86 0.2682 0.2296

Earth 12031-08-31 07:55 G 6115534.76 6115534.83 6115534.90 0.2678 0.2233 *

Mars 12033-11-04 13:26 G 6116330.91 6116331.06 6116331.21 0.1599 0.0293

Jupiter 12034-12-10 05:16 G 6116731.69 6116731.72 6116731.75 0.0541 0.0526

Jupiter 12035-03-09 21:07 G 6116821.25 6116821.38 6116821.51 0.0543 0.0192

Earth 12035-03-11 00:57 G 6116822.51 6116822.54 6116822.57 0.2657 0.2524

Moon 12035-03-11 01:55 G 6116822.56 6116822.58 6116822.59 0.2658 0.2635 *

Mars 12036-08-22 08:38 G 6117352.80 6117352.86 6117352.93 0.1931 0.1584

Jupiter 12040-10-24 02:38 G 6118876.46 6118876.61 6118876.75 0.0486 0.0215

Jupiter 12041-01-21 19:40 G 6118966.22 6118966.32 6118966.43 0.0485 0.0372

Saturn 12041-09-05 22:04 G 6119193.32 6119193.42 6119193.51 0.0275 0.0211

Saturn 12041-12-03 12:14 G 6119281.87 6119282.01 6119282.14 0.0275 0.0106

Saturn 12042-03-02 01:55 G 6119370.44 6119370.58 6119370.73 0.0275 0.0007

Moon 12042-03-03 19:11 G 6119372.22 6119372.30 6119372.38 0.2658 0.1975

Earth 12042-03-03 19:55 G 6119372.24 6119372.33 6119372.41 0.2654 0.1817 *

Saturn 12042-05-29 15:36 G 6119459.01 6119459.15 6119459.29 0.0275 0.0099

Venus 12042-05-29 23:16 G 6119459.41 6119459.47 6119459.53 0.3685 0.3077

Saturn 12042-08-26 04:48 G 6119547.61 6119547.70 6119547.80 0.0275 0.0199

Mars 12043-03-27 18:14 G 6119761.11 6119761.26 6119761.41 0.1597 0.0395

Moon 12044-09-02 08:38 G 6120285.72 6120285.86 6120286.00 0.2683 0.0142

Earth 12044-09-02 09:07 G 6120285.74 6120285.88 6120286.02 0.2677 0.0072 *

Mars 12046-01-12 15:21 G 6120783.03 6120783.14 6120783.25 0.1935 0.0682

Jupiter 12046-12-26 22:48 G 6121131.31 6121131.45 6121131.59 0.0543 0.0018

Venus 12047-12-13 17:31 G 6121483.13 6121483.23 6121483.33 0.3685 0.1692

Venus 12049-06-26 06:00 G 6122043.68 6122043.75 6122043.82 0.3686 0.3063

Jupiter 12052-08-12 04:04 G 6123186.56 6123186.67 6123186.78 0.0486 0.0357

Mars 12052-08-16 23:31 G 6123191.36 6123191.48 6123191.59 0.1595 0.1061

Jupiter 12052-11-09 20:52 G 6123276.22 6123276.37 6123276.51 0.0485 0.0222

Venus 12053-06-28 11:45 G 6123506.88 6123506.99 6123507.10 0.3686 0.0338

Venus 12055-01-10 06:00 G 6124067.63 6124067.75 6124067.88 0.3685 0.1058

Moon 12055-03-06 15:21 G 6124123.02 6124123.14 6124123.26 0.2662 0.0163

Earth 12055-03-06 15:21 G 6124123.02 6124123.14 6124123.26 0.2655 0.0231 *

Mars 12055-06-04 21:36 G 6124213.28 6124213.40 6124213.52 0.1938 0.0263

Saturn 12056-03-21 06:14 G 6124503.74 6124503.76 6124503.78 0.0284 0.0281

Saturn 12056-06-17 23:02 G 6124592.33 6124592.46 6124592.59 0.0284 0.0163

Uranus 12056-06-21 10:04 G 6124595.86 6124595.92 6124596.00 0.0145 0.0131

Saturn 12056-09-14 16:19 G 6124681.02 6124681.18 6124681.34 0.0284 0.0042

Uranus 12056-09-17 16:33 G 6124684.08 6124684.19 6124684.31 0.0145 0.0105

Saturn 12056-12-12 09:50 G 6124769.75 6124769.91 6124770.06 0.0284 0.0083

Uranus 12056-12-14 23:02 G 6124772.33 6124772.46 6124772.61 0.0145 0.0079

Saturn 12057-03-11 03:36 G 6124858.55 6124858.65 6124858.77 0.0284 0.0210

Uranus 12057-03-13 05:45 G 6124860.58 6124860.74 6124860.90 0.0145 0.0052

Uranus 12057-06-09 12:28 G 6124948.85 6124949.02 6124949.19 0.0145 0.0026

Earth 12057-09-05 11:02 G 6125036.89 6125036.96 6125037.02 0.2676 0.2351

Moon 12057-09-05 11:31 G 6125036.93 6125036.98 6125037.03 0.2682 0.2509 *

Uranus 12057-09-05 19:11 G 6125037.13 6125037.30 6125037.47 0.0145 0.0001

Uranus 12057-12-03 01:55 G 6125125.41 6125125.58 6125125.75 0.0145 0.0028

Uranus 12058-03-01 08:38 G 6125213.70 6125213.86 6125214.03 0.0145 0.0056

Uranus 12058-05-28 15:36 G 6125302.01 6125302.15 6125302.29 0.0145 0.0083

Uranus 12058-08-24 22:19 G 6125390.33 6125390.43 6125390.55 0.0145 0.0111

Jupiter 12058-10-15 00:57 G 6125441.40 6125441.54 6125441.68 0.0543 0.0157

Uranus 12058-11-21 05:31 G 6125478.68 6125478.73 6125478.78 0.0145 0.0138

Venus 12059-01-12 05:45 G 6125530.63 6125530.74 6125530.84 0.3686 0.0971

Venus 12060-07-26 06:43 G 6126091.65 6126091.78 6126091.91 0.3684 0.1078

Mars 12063-12-14 09:21 G 6127327.77 6127327.89 6127328.00 0.1602 0.1089

Venus 12064-07-27 23:16 G 6127554.39 6127554.47 6127554.56 0.3687 0.2233

Jupiter 12064-08-28 22:04 G 6127586.27 6127586.42 6127586.59 0.0485 0.0079

Mars 12064-10-25 03:50 G 6127643.56 6127643.66 6127643.75 0.1941 0.1217

Venus 12066-02-09 07:55 G 6128115.77 6128115.83 6128115.88 0.3684 0.3336

Earth 12068-03-08 10:48 G 6128873.85 6128873.95 6128874.05 0.2656 0.1327

Moon 12068-03-08 11:16 G 6128873.87 6128873.97 6128874.07 0.2661 0.1355 *

Venus 12070-02-10 17:02 G 6129578.17 6129578.21 6129578.24 0.3687 0.3452

Jupiter 12070-08-03 03:07 G 6129751.52 6129751.63 6129751.74 0.0542 0.0327

Jupiter 12070-10-31 18:28 G 6129841.17 6129841.27 6129841.37 0.0544 0.0385

Saturn 12071-01-23 21:50 G 6129925.36 6129925.41 6129925.48 0.0274 0.0253

Saturn 12071-04-22 12:14 G 6130013.89 6130014.01 6130014.14 0.0274 0.0146

Saturn 12071-07-20 02:23 G 6130102.45 6130102.60 6130102.74 0.0274 0.0043

Saturn 12071-10-16 16:04 G 6130191.02 6130191.17 6130191.31 0.0275 0.0060

Saturn 12072-01-13 05:16 G 6130279.61 6130279.72 6130279.84 0.0275 0.0160

Saturn 12072-04-10 18:28 G 6130368.23 6130368.27 6130368.32 0.0275 0.0258

Mars 12073-05-05 13:40 G 6130757.92 6130758.07 6130758.23 0.1599 0.0382

Mars 12076-02-21 08:52 G 6131779.81 6131779.87 6131779.92 0.1931 0.1677

Jupiter 12076-06-16 23:16 G 6131896.31 6131896.47 6131896.63 0.0485 0.0070

Moon 12077-08-31 12:43 G 6132336.94 6132337.03 6132337.12 0.2683 0.1979

Earth 12077-08-31 13:40 G 6132336.97 6132337.07 6132337.17 0.2678 0.1787 *

Jupiter 12082-05-22 04:48 G 6134061.65 6134061.70 6134061.75 0.0542 0.0506

Jupiter 12082-08-19 20:38 G 6134151.23 6134151.36 6134151.49 0.0543 0.0214

Mars 12082-09-25 18:43 G 6134188.13 6134188.28 6134188.44 0.1597 0.0304

Neptune 12083-08-04 14:09 G 6134501.05 6134501.09 6134501.15 0.0089 0.0085

Neptune 12083-10-31 16:04 G 6134589.11 6134589.17 6134589.26 0.0089 0.0077

Neptune 12084-01-27 18:14 G 6134677.17 6134677.26 6134677.36 0.0089 0.0069

Neptune 12084-04-24 20:09 G 6134765.24 6134765.34 6134765.46 0.0089 0.0061

Neptune 12084-07-21 21:50 G 6134853.31 6134853.41 6134853.55 0.0089 0.0054

Neptune 12084-10-18 00:00 G 6134941.38 6134941.50 6134941.64 0.0089 0.0045

Neptune 12085-01-14 01:55 G 6135029.45 6135029.58 6135029.72 0.0089 0.0038

Neptune 12085-04-12 03:50 G 6135117.53 6135117.66 6135117.81 0.0089 0.0030

Neptune 12085-07-09 05:45 G 6135205.60 6135205.74 6135205.89 0.0089 0.0022

Mars 12085-07-13 15:36 G 6135210.04 6135210.15 6135210.26 0.1934 0.0779

Neptune 12085-10-05 07:40 G 6135293.68 6135293.82 6135293.97 0.0089 0.0014

Saturn 12085-11-04 22:19 G 6135324.33 6135324.43 6135324.54 0.0284 0.0207

Neptune 12086-01-01 09:36 G 6135381.75 6135381.90 6135382.05 0.0089 0.0007

Saturn 12086-02-01 15:36 G 6135413.00 6135413.15 6135413.30 0.0284 0.0086

Neptune 12086-03-30 11:31 G 6135469.83 6135469.98 6135470.13 0.0089 0.0001

Saturn 12086-05-01 08:52 G 6135501.71 6135501.87 6135502.03 0.0284 0.0038

Neptune 12086-06-26 13:26 G 6135557.91 6135558.06 6135558.21 0.0089 0.0009

Saturn 12086-07-29 02:52 G 6135590.49 6135590.62 6135590.75 0.0284 0.0163

Neptune 12086-09-22 15:07 G 6135645.99 6135646.13 6135646.28 0.0089 0.0017

Neptune 12086-12-19 17:02 G 6135734.07 6135734.21 6135734.36 0.0089 0.0024

Neptune 12087-03-17 18:57 G 6135822.15 6135822.29 6135822.43 0.0089 0.0031

Neptune 12087-06-13 20:38 G 6135910.23 6135910.36 6135910.50 0.0089 0.0039

Neptune 12087-09-09 22:19 G 6135998.32 6135998.43 6135998.57 0.0089 0.0047

Neptune 12087-12-07 00:28 G 6136086.40 6136086.52 6136086.63 0.0089 0.0054

Moon 12088-03-04 00:28 G 6136174.42 6136174.52 6136174.62 0.2659 0.1493

Earth 12088-03-04 00:57 G 6136174.44 6136174.54 6136174.64 0.2654 0.1474 *

Neptune 12088-03-04 01:55 G 6136174.49 6136174.58 6136174.70 0.0089 0.0062 *

Jupiter 12088-04-05 00:57 G 6136206.40 6136206.54 6136206.69 0.0486 0.0210

Neptune 12088-05-31 03:50 G 6136262.57 6136262.66 6136262.76 0.0089 0.0069

Jupiter 12088-07-03 18:14 G 6136296.16 6136296.26 6136296.36 0.0485 0.0376

Neptune 12088-08-27 05:31 G 6136350.67 6136350.73 6136350.82 0.0089 0.0076

Neptune 12088-11-23 07:11 G 6136438.77 6136438.80 6136438.86 0.0089 0.0084

Moon 12090-09-03 14:38 G 6137087.98 6137088.11 6137088.25 0.2683 0.0519

Earth 12090-09-03 15:07 G 6137087.99 6137088.13 6137088.27 0.2677 0.0476 *

Mars 12092-02-16 00:00 G 6137618.38 6137618.50 6137618.62 0.1595 0.0971

Jupiter 12094-06-07 21:36 G 6138461.26 6138461.40 6138461.54 0.0543 0.0023

Mars 12094-12-03 21:50 G 6138640.29 6138640.41 6138640.53 0.1938 0.0163

Venus 12099-01-03 21:21 G 6140132.32 6140132.39 6140132.47 0.3685 0.2651

Uranus 12099-01-04 13:11 G 6140133.01 6140133.05 6140133.11 0.0133 0.0125

Uranus 12099-04-02 17:02 G 6140221.13 6140221.21 6140221.31 0.0133 0.0107

Uranus 12099-06-29 20:52 G 6140309.27 6140309.37 6140309.48 0.0133 0.0089

Uranus 12099-09-26 00:43 G 6140397.41 6140397.53 6140397.65 0.0133 0.0071

Uranus 12099-12-23 04:19 G 6140485.55 6140485.68 6140485.82 0.0133 0.0053

Jupiter 12100-01-23 02:38 G 6140516.50 6140516.61 6140516.72 0.0486 0.0350

Uranus 12100-03-21 08:09 G 6140573.70 6140573.84 6140573.98 0.0133 0.0036

Jupiter 12100-04-22 19:26 G 6140606.17 6140606.31 6140606.45 0.0485 0.0230

Uranus 12100-06-17 11:45 G 6140661.85 6140661.99 6140662.13 0.0133 0.0018

Saturn 12100-09-09 15:07 G 6140746.01 6140746.13 6140746.25 0.0275 0.0169

Uranus 12100-09-13 15:21 G 6140750.00 6140750.14 6140750.29 0.0134 0.0003

Saturn 12100-12-07 05:02 G 6140834.57 6140834.71 6140834.86 0.0275 0.0064

Uranus 12100-12-10 18:57 G 6140838.15 6140838.29 6140838.44 0.0134 0.0017

Saturn 12101-03-05 18:57 G 6140923.14 6140923.29 6140923.43 0.0275 0.0040

Earth 12101-03-07 20:23 G 6140925.23 6140925.35 6140925.47 0.2655 0.0115

Moon 12101-03-07 20:23 G 6140925.24 6140925.35 6140925.47 0.2662 0.0097 *

Uranus 12101-03-08 22:33 G 6140926.31 6140926.44 6140926.58 0.0134 0.0034

Saturn 12101-06-02 08:23 G 6141011.72 6141011.85 6141011.97 0.0275 0.0140

Uranus 12101-06-05 02:09 G 6141014.46 6141014.59 6141014.72 0.0134 0.0051

Saturn 12101-08-29 21:36 G 6141100.33 6141100.40 6141100.47 0.0275 0.0239

Uranus 12101-09-01 05:31 G 6141102.62 6141102.73 6141102.86 0.0134 0.0069

Uranus 12101-11-28 09:07 G 6141190.78 6141190.88 6141191.00 0.0134 0.0086

Uranus 12102-02-24 12:28 G 6141278.94 6141279.02 6141279.12 0.0134 0.0103

Uranus 12102-05-23 16:19 G 6141367.12 6141367.18 6141367.24 0.0134 0.0119

Mars 12103-06-15 09:50 G 6141754.81 6141754.91 6141755.01 0.1602 0.1187

Mars 12104-04-26 04:04 G 6142070.57 6142070.67 6142070.77 0.1940 0.1122

Venus 12104-07-20 15:50 G 6142156.05 6142156.16 6142156.26 0.3685 0.1273

Venus 12106-02-01 05:45 G 6142716.65 6142716.74 6142716.84 0.3686 0.2461

Jupiter 12106-03-27 23:02 G 6142771.33 6142771.46 6142771.60 0.0542 0.0160

Jupiter 12106-06-25 13:55 G 6142861.07 6142861.08 6142861.09 0.0544 0.0542

Pluto 12106-10-08 02:52 G 6142965.60 6142965.62 6142965.66 0.0071 0.0069

Pluto 12107-01-04 03:36 G 6143053.59 6143053.65 6143053.73 0.0071 0.0060

Pluto 12107-04-02 04:33 G 6143141.60 6143141.69 6143141.79 0.0071 0.0050

Pluto 12107-06-29 05:16 G 6143229.61 6143229.72 6143229.83 0.0071 0.0041

Pluto 12107-09-25 05:45 G 6143317.63 6143317.74 6143317.87 0.0071 0.0033

Pluto 12107-12-22 06:28 G 6143405.65 6143405.77 6143405.91 0.0071 0.0024

Pluto 12108-03-19 07:26 G 6143493.68 6143493.81 6143493.95 0.0072 0.0014

Pluto 12108-06-15 08:09 G 6143581.71 6143581.84 6143581.98 0.0072 0.0005

Pluto 12108-09-11 08:52 G 6143669.74 6143669.87 6143670.01 0.0072 0.0006

Pluto 12108-12-08 09:36 G 6143757.77 6143757.90 6143758.04 0.0072 0.0015

Pluto 12109-03-06 10:19 G 6143845.81 6143845.93 6143846.07 0.0072 0.0024

Pluto 12109-06-02 11:02 G 6143933.85 6143933.96 6143934.09 0.0072 0.0034

Pluto 12109-08-29 12:00 G 6144021.90 6144022.00 6144022.11 0.0072 0.0043

Pluto 12109-11-25 12:43 G 6144109.95 6144110.03 6144110.13 0.0072 0.0053

Venus 12110-02-03 09:50 G 6144179.80 6144179.91 6144180.03 0.3686 0.0108

Pluto 12110-02-21 13:11 G 6144198.00 6144198.05 6144198.13 0.0072 0.0064

Venus 12111-08-18 06:00 G 6144740.62 6144740.75 6144740.88 0.3685 0.0419

Jupiter 12112-02-09 20:38 G 6144916.20 6144916.36 6144916.51 0.0485 0.0084

Mars 12112-11-04 14:23 G 6145184.95 6145185.10 6145185.25 0.1599 0.0478

Earth 12114-03-10 15:50 G 6145676.07 6145676.16 6145676.25 0.2656 0.1648

Moon 12114-03-10 16:33 G 6145676.10 6145676.19 6145676.27 0.2660 0.1811 *

Saturn 12115-03-26 00:14 G 6146056.43 6146056.51 6146056.60 0.0284 0.0233

Saturn 12115-06-22 17:16 G 6146145.07 6146145.22 6146145.36 0.0284 0.0114

Venus 12115-08-20 03:50 G 6146203.55 6146203.66 6146203.76 0.3686 0.1366

Mars 12115-08-23 08:52 G 6146206.82 6146206.87 6146206.92 0.1931 0.1763

Saturn 12115-09-19 10:33 G 6146233.78 6146233.94 6146234.10 0.0284 0.0009

Saturn 12115-12-17 04:04 G 6146322.53 6146322.67 6146322.82 0.0284 0.0134

Saturn 12116-03-14 22:19 G 6146411.37 6146411.43 6146411.49 0.0284 0.0261

Venus 12117-03-03 06:43 G 6146764.66 6146764.78 6146764.90 0.3684 0.1749

Jupiter 12118-01-14 00:43 G 6147081.42 6147081.53 6147081.65 0.0542 0.0337

Jupiter 12118-04-13 16:19 G 6147171.08 6147171.18 6147171.28 0.0544 0.0376

Venus 12121-03-04 21:21 G 6148227.32 6148227.39 6148227.47 0.3687 0.2616

Mars 12122-03-27 19:11 G 6148615.14 6148615.30 6148615.45 0.1597 0.0216

Moon 12123-09-02 18:28 G 6149139.16 6149139.27 6149139.39 0.2683 0.1424

Earth 12123-09-02 19:26 G 6149139.19 6149139.31 6149139.43 0.2678 0.1343 *

Jupiter 12123-11-28 22:04 G 6149226.26 6149226.42 6149226.58 0.0485 0.0061

Mars 12125-01-12 15:21 G 6149637.04 6149637.14 6149637.25 0.1935 0.0862

Jupiter 12129-11-02 02:52 G 6151391.57 6151391.62 6151391.67 0.0542 0.0509

Saturn 12130-01-27 15:21 G 6151478.05 6151478.14 6151478.25 0.0274 0.0207

Jupiter 12130-01-30 18:43 G 6151481.15 6151481.28 6151481.41 0.0544 0.0212

Saturn 12130-04-26 05:45 G 6151566.60 6151566.74 6151566.88 0.0274 0.0101

Saturn 12130-07-23 19:40 G 6151655.17 6151655.32 6151655.47 0.0275 0.0006

Saturn 12130-10-20 09:07 G 6151743.75 6151743.88 6151744.02 0.0275 0.0104

Saturn 12131-01-16 22:33 G 6151832.34 6151832.44 6151832.54 0.0275 0.0203

Mars 12131-08-18 00:14 G 6152045.39 6152045.51 6152045.64 0.1595 0.0883

Moon 12134-03-06 05:45 G 6152976.63 6152976.74 6152976.84 0.2660 0.1227

Earth 12134-03-06 06:00 G 6152976.64 6152976.75 6152976.86 0.2654 0.1138 *

Mars 12134-06-04 22:04 G 6153067.30 6153067.42 6153067.54 0.1938 0.0059

Jupiter 12135-09-16 23:16 G 6153536.33 6153536.47 6153536.61 0.0486 0.0206

Jupiter 12135-12-15 16:19 G 6153626.09 6153626.18 6153626.29 0.0485 0.0379

Moon 12136-09-04 20:52 G 6153890.24 6153890.37 6153890.50 0.2683 0.0867

Earth 12136-09-04 20:52 G 6153890.24 6153890.37 6153890.50 0.2677 0.0934 *

Uranus 12140-07-12 17:16 G 6155297.15 6155297.22 6155297.32 0.0145 0.0125

Uranus 12140-10-08 23:45 G 6155385.38 6155385.49 6155385.63 0.0145 0.0099

Uranus 12141-01-05 06:28 G 6155473.63 6155473.77 6155473.92 0.0145 0.0072

Mars 12141-01-07 05:45 G 6155475.70 6155475.74 6155475.77 0.1594 0.1537

Uranus 12141-04-03 12:57 G 6155561.89 6155562.04 6155562.21 0.0145 0.0046

Uranus 12141-06-30 19:40 G 6155650.15 6155650.32 6155650.50 0.0145 0.0020

Uranus 12141-09-27 02:23 G 6155738.43 6155738.60 6155738.78 0.0145 0.0008

Jupiter 12141-11-18 20:52 G 6155791.23 6155791.37 6155791.51 0.0543 0.0041

Uranus 12141-12-24 09:07 G 6155826.72 6155826.88 6155827.05 0.0145 0.0035

Uranus 12142-03-22 15:50 G 6155915.01 6155915.16 6155915.32 0.0145 0.0062

Uranus 12142-06-18 22:33 G 6156003.32 6156003.44 6156003.59 0.0145 0.0090

Uranus 12142-09-15 05:31 G 6156091.64 6156091.73 6156091.84 0.0145 0.0117

Uranus 12142-12-12 12:28 G 6156180.02 6156180.02 6156180.04 0.0145 0.0144

Mars 12142-12-14 10:19 G 6156181.84 6156181.93 6156182.02 0.1602 0.1282

Mars 12143-10-26 04:04 G 6156497.57 6156497.67 6156497.77 0.1940 0.1032

Saturn 12144-08-11 23:31 G 6156788.46 6156788.48 6156788.52 0.0284 0.0277

Saturn 12144-11-08 16:19 G 6156877.06 6156877.18 6156877.32 0.0284 0.0159

Saturn 12145-02-05 09:36 G 6156965.75 6156965.90 6156966.06 0.0284 0.0037

Saturn 12145-05-05 03:07 G 6157054.48 6157054.63 6157054.79 0.0284 0.0088

Saturn 12145-08-01 21:07 G 6157143.28 6157143.38 6157143.49 0.0284 0.0215

Earth 12147-03-09 01:26 G 6157727.45 6157727.56 6157727.68 0.2655 0.0447

Moon 12147-03-09 01:40 G 6157727.46 6157727.57 6157727.69 0.2661 0.0521 *

Jupiter 12147-07-06 00:57 G 6157846.43 6157846.54 6157846.65 0.0486 0.0346

Jupiter 12147-10-03 17:45 G 6157936.10 6157936.24 6157936.38 0.0485 0.0234

Venus 12150-01-26 01:11 G 6158781.53 6158781.55 6158781.56 0.3684 0.3633

Mars 12152-05-05 14:52 G 6159611.97 6159612.12 6159612.26 0.1599 0.0571

Jupiter 12153-09-06 21:36 G 6160101.27 6160101.40 6160101.54 0.0542 0.0155

Mars 12155-02-21 08:52 G 6160633.84 6160633.87 6160633.90 0.1931 0.1850

Venus 12155-08-11 19:40 G 6160805.23 6160805.32 6160805.41 0.3685 0.2219

Jupiter 12159-04-24 02:38 G 6162156.61 6162156.61 6162156.61 0.0487 0.0486

Saturn 12159-06-16 18:00 G 6162210.17 6162210.25 6162210.34 0.0275 0.0230

Jupiter 12159-07-22 18:57 G 6162246.13 6162246.29 6162246.45 0.0486 0.0088

Saturn 12159-09-13 08:23 G 6162298.72 6162298.85 6162298.98 0.0275 0.0124

Saturn 12159-12-10 22:19 G 6162387.28 6162387.43 6162387.58 0.0275 0.0020

Saturn 12160-03-08 12:00 G 6162475.86 6162476.00 6162476.14 0.0275 0.0083

Earth 12160-03-10 20:52 G 6162478.29 6162478.37 6162478.45 0.2656 0.1979

Moon 12160-03-10 21:36 G 6162478.33 6162478.40 6162478.48 0.2660 0.2013 *

Saturn 12160-06-05 01:26 G 6162564.45 6162564.56 6162564.67 0.0276 0.0183

Venus 12161-02-24 13:55 G 6162828.97 6162829.08 6162829.19 0.3686 0.0852

Mars 12161-09-25 19:40 G 6163042.17 6163042.32 6163042.48 0.1597 0.0119

Venus 12162-09-08 05:31 G 6163389.62 6163389.73 6163389.84 0.3685 0.1850

Mars 12164-07-13 15:36 G 6164064.05 6164064.15 6164064.26 0.1934 0.0962

Neptune 12165-04-30 19:40 G 6164355.31 6164355.32 6164355.36 0.0088 0.0087

Jupiter 12165-06-25 23:02 G 6164411.35 6164411.46 6164411.57 0.0542 0.0339

Neptune 12165-07-27 22:04 G 6164443.36 6164443.42 6164443.50 0.0088 0.0079

Jupiter 12165-09-23 14:23 G 6164501.00 6164501.10 6164501.20 0.0543 0.0372

Neptune 12165-10-24 00:28 G 6164531.43 6164531.52 6164531.62 0.0088 0.0071

Neptune 12166-01-20 02:52 G 6164619.51 6164619.62 6164619.74 0.0088 0.0063

Neptune 12166-04-18 05:16 G 6164707.60 6164707.72 6164707.85 0.0088 0.0055

Neptune 12166-07-15 07:26 G 6164795.68 6164795.81 6164795.96 0.0088 0.0048

Venus 12166-09-10 07:55 G 6164852.72 6164852.83 6164852.95 0.3686 0.0490

Neptune 12166-10-11 09:50 G 6164883.77 6164883.91 6164884.07 0.0088 0.0040

Neptune 12167-01-07 12:14 G 6164971.86 6164972.01 6164972.17 0.0088 0.0032

Moon 12167-03-04 14:38 G 6165028.08 6165028.11 6165028.15 0.2655 0.2511

Earth 12167-03-04 15:21 G 6165028.10 6165028.14 6165028.19 0.2653 0.2411 *

Neptune 12167-04-05 14:52 G 6165059.96 6165060.12 6165060.28 0.0088 0.0023

Neptune 12167-07-02 17:16 G 6165148.06 6165148.22 6165148.38 0.0088 0.0015

Neptune 12167-09-28 19:40 G 6165236.15 6165236.32 6165236.49 0.0088 0.0007

Neptune 12167-12-25 22:04 G 6165324.25 6165324.42 6165324.59 0.0088 0.0001

Neptune 12168-03-23 00:28 G 6165412.36 6165412.52 6165412.69 0.0088 0.0009

Venus 12168-03-24 05:45 G 6165413.61 6165413.74 6165413.88 0.3685 0.0241

Neptune 12168-06-19 02:52 G 6165500.46 6165500.62 6165500.79 0.0088 0.0018

Neptune 12168-09-15 05:16 G 6165588.57 6165588.72 6165588.89 0.0088 0.0026

Neptune 12168-12-12 07:40 G 6165676.68 6165676.82 6165676.99 0.0088 0.0034

Neptune 12169-03-10 10:19 G 6165764.79 6165764.93 6165765.08 0.0088 0.0042

Neptune 12169-06-06 12:43 G 6165852.90 6165853.03 6165853.18 0.0088 0.0051

Neptune 12169-09-02 15:07 G 6165941.02 6165941.13 6165941.27 0.0088 0.0059

Moon 12169-09-03 00:28 G 6165941.39 6165941.52 6165941.65 0.2683 0.1028

Earth 12169-09-03 01:26 G 6165941.42 6165941.56 6165941.69 0.2678 0.0890 *

Neptune 12169-11-29 18:00 G 6166029.14 6166029.25 6166029.36 0.0088 0.0067

Neptune 12170-02-25 20:09 G 6166117.27 6166117.34 6166117.44 0.0088 0.0076

Neptune 12170-05-24 23:02 G 6166205.42 6166205.46 6166205.51 0.0088 0.0084

Mars 12171-02-16 00:43 G 6166472.40 6166472.53 6166472.66 0.1595 0.0795

Jupiter 12171-05-10 20:09 G 6166556.18 6166556.34 6166556.50 0.0486 0.0059

Venus 12172-03-26 01:55 G 6166876.48 6166876.58 6166876.67 0.3687 0.1760

Venus 12173-10-08 06:43 G 6167437.68 6167437.78 6167437.88 0.3684 0.2426

Mars 12173-12-03 22:04 G 6167494.30 6167494.42 6167494.54 0.1938 0.0048

Saturn 12174-03-28 18:57 G 6167609.17 6167609.29 6167609.41 0.0284 0.0181

Saturn 12174-06-25 12:00 G 6167697.84 6167698.00 6167698.16 0.0284 0.0060

Saturn 12174-09-22 05:31 G 6167786.57 6167786.73 6167786.89 0.0284 0.0063

Saturn 12174-12-19 23:16 G 6167875.35 6167875.47 6167875.59 0.0284 0.0189

Jupiter 12177-04-14 00:28 G 6168721.48 6168721.52 6168721.56 0.0542 0.0521

Jupiter 12177-07-12 16:19 G 6168811.05 6168811.18 6168811.31 0.0543 0.0201

Venus 12177-10-09 19:26 G 6168900.25 6168900.31 6168900.37 0.3687 0.2994

Moon 12180-03-06 10:48 G 6169778.84 6169778.95 6169779.06 0.2661 0.0827

Earth 12180-03-06 11:02 G 6169778.85 6169778.96 6169779.08 0.2654 0.0806 *

Mars 12180-07-08 06:00 G 6169902.69 6169902.75 6169902.81 0.1594 0.1452

Mars 12182-06-14 10:48 G 6170608.87 6170608.95 6170609.02 0.1602 0.1375

Earth 12182-09-06 02:52 G 6170692.50 6170692.62 6170692.74 0.2676 0.1401

Moon 12182-09-06 02:52 G 6170692.51 6170692.62 6170692.74 0.2683 0.1491 *

Uranus 12183-01-25 20:38 G 6170834.31 6170834.36 6170834.43 0.0133 0.0119

Jupiter 12183-02-26 21:50 G 6170866.26 6170866.41 6170866.55 0.0486 0.0200

Uranus 12183-04-24 00:28 G 6170922.43 6170922.52 6170922.62 0.0133 0.0101

Mars 12183-04-26 04:19 G 6170924.57 6170924.68 6170924.78 0.1941 0.0934

Jupiter 12183-05-27 14:52 G 6170956.03 6170956.12 6170956.22 0.0485 0.0385

Uranus 12183-07-21 04:19 G 6171010.57 6171010.68 6171010.80 0.0133 0.0083

Uranus 12183-10-17 08:09 G 6171098.72 6171098.84 6171098.97 0.0133 0.0065

Uranus 12184-01-13 11:45 G 6171186.86 6171186.99 6171187.13 0.0133 0.0048

Uranus 12184-04-10 15:36 G 6171275.01 6171275.15 6171275.29 0.0133 0.0030

Uranus 12184-07-07 19:11 G 6171363.16 6171363.30 6171363.44 0.0134 0.0013

Uranus 12184-10-03 22:48 G 6171451.31 6171451.45 6171451.60 0.0134 0.0005

Uranus 12184-12-31 02:23 G 6171539.46 6171539.60 6171539.74 0.0134 0.0022

Uranus 12185-03-29 06:00 G 6171627.62 6171627.75 6171627.89 0.0134 0.0040

Uranus 12185-06-25 09:36 G 6171715.77 6171715.90 6171716.03 0.0134 0.0057

Uranus 12185-09-21 13:11 G 6171803.93 6171804.05 6171804.17 0.0134 0.0074

Uranus 12185-12-18 16:33 G 6171892.10 6171892.19 6171892.30 0.0134 0.0091

Uranus 12186-03-16 20:09 G 6171980.26 6171980.34 6171980.43 0.0134 0.0108

Uranus 12186-06-12 23:31 G 6172068.44 6172068.48 6172068.54 0.0134 0.0125

Saturn 12188-11-02 18:43 G 6172942.26 6172942.28 6172942.33 0.0274 0.0266

Saturn 12189-01-30 09:07 G 6173030.77 6173030.88 6173031.01 0.0274 0.0160

Saturn 12189-04-28 23:16 G 6173119.33 6173119.47 6173119.62 0.0275 0.0055

Jupiter 12189-04-30 18:43 G 6173121.14 6173121.28 6173121.42 0.0543 0.0033

Saturn 12189-07-26 13:11 G 6173207.90 6173208.05 6173208.19 0.0275 0.0048

Saturn 12189-10-23 02:38 G 6173296.49 6173296.61 6173296.73 0.0275 0.0149

Saturn 12190-01-19 15:50 G 6173385.10 6173385.16 6173385.22 0.0275 0.0247

Mars 12191-11-04 15:07 G 6174038.99 6174039.13 6174039.28 0.1599 0.0666

Pluto 12192-05-29 04:19 G 6174245.60 6174245.68 6174245.79 0.0073 0.0064

Pluto 12192-08-25 06:43 G 6174333.65 6174333.78 6174333.93 0.0073 0.0049

Mars 12192-09-15 10:04 G 6174354.91 6174354.92 6174354.94 0.1943 0.1918

Pluto 12192-11-21 08:52 G 6174421.72 6174421.87 6174422.05 0.0073 0.0035

Pluto 12193-02-17 11:16 G 6174509.79 6174509.97 6174510.16 0.0073 0.0021

Earth 12193-03-09 06:43 G 6174529.66 6174529.78 6174529.89 0.2655 0.0775

Moon 12193-03-09 06:57 G 6174529.68 6174529.79 6174529.90 0.2661 0.0780 *

Pluto 12193-05-16 13:40 G 6174597.88 6174598.07 6174598.26 0.0073 0.0007

Pluto 12193-08-12 15:50 G 6174685.97 6174686.16 6174686.35 0.0073 0.0007

Pluto 12193-11-08 17:45 G 6174774.07 6174774.24 6174774.44 0.0073 0.0021

Pluto 12194-02-04 19:55 G 6174862.18 6174862.33 6174862.51 0.0072 0.0034

Pluto 12194-05-03 22:04 G 6174950.29 6174950.42 6174950.58 0.0072 0.0048

Pluto 12194-07-31 00:28 G 6175038.43 6175038.52 6175038.63 0.0072 0.0061

Jupiter 12194-12-15 23:02 G 6175176.36 6175176.46 6175176.58 0.0486 0.0345

Jupiter 12195-03-15 15:50 G 6175266.02 6175266.16 6175266.30 0.0485 0.0235

Jupiter 12201-02-17 20:38 G 6177431.23 6177431.36 6177431.50 0.0543 0.0142

Mars 12201-03-27 20:09 G 6177469.18 6177469.34 6177469.49 0.1597 0.0027

Earth 12202-09-02 06:00 G 6177992.74 6177992.75 6177992.76 0.2679 0.2661

Saturn 12203-08-16 18:14 G 6178341.17 6178341.26 6178341.36 0.0284 0.0224

Saturn 12203-11-13 11:16 G 6178429.82 6178429.97 6178430.12 0.0284 0.0105

Mars 12204-01-13 15:50 G 6178491.06 6178491.16 6178491.26 0.1934 0.1047

Saturn 12204-02-10 04:33 G 6178518.53 6178518.69 6178518.85 0.0284 0.0017

Saturn 12204-05-08 22:04 G 6178607.29 6178607.42 6178607.57 0.0284 0.0143

Saturn 12204-08-05 16:19 G 6178696.14 6178696.18 6178696.23 0.0284 0.0270

Earth 12206-03-13 01:55 G 6179280.53 6179280.58 6179280.64 0.2657 0.2301

Moon 12206-03-13 02:38 G 6179280.57 6179280.61 6179280.65 0.2660 0.2476 *

Venus 12206-09-02 23:31 G 6179454.42 6179454.48 6179454.53 0.3685 0.3193

Jupiter 12206-10-05 00:57 G 6179486.53 6179486.54 6179486.56 0.0487 0.0483

Jupiter 12207-01-02 17:16 G 6179576.06 6179576.22 6179576.38 0.0485 0.0090

Mars 12210-08-18 01:11 G 6180899.41 6180899.55 6180899.69 0.1595 0.0701

Venus 12212-03-18 18:00 G 6181478.15 6181478.25 6181478.34 0.3685 0.1796

Jupiter 12212-12-06 21:36 G 6181741.29 6181741.40 6181741.51 0.0541 0.0333

Moon 12213-03-05 19:55 G 6181830.26 6181830.33 6181830.39 0.2657 0.2204

Earth 12213-03-05 20:38 G 6181830.28 6181830.36 6181830.43 0.2653 0.2071 *

Jupiter 12213-03-06 12:57 G 6181830.94 6181831.04 6181831.14 0.0543 0.0377

Mars 12213-06-04 22:19 G 6181921.31 6181921.43 6181921.55 0.1938 0.0134

Venus	12213-09-30 05:31 G	6182038.66	6182038.73	6182038.79	0.3686	0.3225
Moon	12215-09-05 06:28 G	6182743.64	6182743.77	6182743.91	0.2683	0.0526
Earth	12215-09-05 07:11 G	6182743.66	6182743.80	6182743.93	0.2678	0.0446 *
Venus	12217-10-02 12:14 G	6183501.89	6183502.01	6183502.12	0.3686	0.0455
Saturn	12218-06-20 11:45 G	6183762.88	6183762.99	6183763.10	0.0275	0.0183
Saturn	12218-09-17 01:55 G	6183851.44	6183851.58	6183851.72	0.0275	0.0078
Jupiter	12218-10-21 18:28 G	6183886.11	6183886.27	6183886.43	0.0486	0.0057
Saturn	12218-12-14 15:50 G	6183940.01	6183940.16	6183940.31	0.0276	0.0026
Saturn	12219-03-13 05:16 G	6184028.60	6184028.72	6184028.86	0.0276	0.0128
Venus	12219-04-16 05:16 G	6184062.60	6184062.72	6184062.85	0.3685	0.1234
Saturn	12219-06-09 18:43 G	6184117.20	6184117.28	6184117.36	0.0276	0.0227
Mars	12220-01-08 06:28 G	6184329.69	6184329.77	6184329.85	0.1594	0.1360
Mars	12221-12-14 11:16 G	6185035.91	6185035.97	6185036.03	0.1602	0.1476
Mars	12222-10-26 04:19 G	6185351.57	6185351.68	6185351.79	0.1940	0.0842
Venus	12223-04-18 06:00 G	6185525.65	6185525.75	6185525.86	0.3686	0.0888
Uranus	12224-05-06 18:28 G	6185910.25	6185910.27	6185910.30	0.0145	0.0144
Uranus	12224-08-03 00:43 G	6185998.45	6185998.53	6185998.64	0.0145	0.0118
Jupiter	12224-09-24 22:48 G	6186051.41	6186051.45	6186051.48	0.0541	0.0521
Venus	12224-10-30 05:45 G	6186086.61	6186086.74	6186086.87	0.3684	0.0876
Uranus	12224-10-30 07:11 G	6186086.68	6186086.80	6186086.94	0.0145	0.0092 *
Jupiter	12224-12-23 14:38 G	6186140.98	6186141.11	6186141.24	0.0543	0.0198
Uranus	12225-01-26 13:55 G	6186174.93	6186175.08	6186175.24	0.0145	0.0065
Uranus	12225-04-24 20:38 G	6186263.19	6186263.36	6186263.52	0.0145	0.0039
Uranus	12225-07-22 03:07 G	6186351.46	6186351.63	6186351.81	0.0145	0.0013
Uranus	12225-10-18 09:50 G	6186439.74	6186439.91	6186440.09	0.0145	0.0015
Uranus	12226-01-14 16:33 G	6186528.03	6186528.19	6186528.36	0.0145	0.0042
Moon	12226-03-08 15:50 G	6186581.05	6186581.16	6186581.28	0.2661	0.0520
Earth	12226-03-08 16:04 G	6186581.06	6186581.17	6186581.29	0.2654	0.0480 *
Uranus	12226-04-12 23:16 G	6186616.32	6186616.47	6186616.63	0.0145	0.0069
Uranus	12226-07-10 06:00 G	6186704.63	6186704.75	6186704.89	0.0145	0.0097

Uranus 12226-10-06 12:57 G 6186792.96 6186793.04 6186793.14 0.0145 0.0124

Earth 12228-09-07 08:38 G 6187494.76 6187494.86 6187494.96 0.2676 0.1868

Moon 12228-09-07 08:52 G 6187494.77 6187494.87 6187494.97 0.2683 0.1865 *

Venus 12228-10-31 23:45 G 6187549.41 6187549.49 6187549.58 0.3687 0.2150

Venus 12230-05-16 06:43 G 6188110.71 6188110.78 6188110.85 0.3684 0.3107

Jupiter 12230-08-09 19:40 G 6188196.18 6188196.32 6188196.47 0.0486 0.0201

Jupiter 12230-11-07 12:43 G 6188285.94 6188286.03 6188286.13 0.0485 0.0385

Mars 12231-05-06 15:50 G 6188466.02 6188466.16 6188466.29 0.1599 0.0761

Mars 12232-03-17 10:04 G 6188781.88 6188781.92 6188781.96 0.1943 0.1835

Saturn 12233-01-02 21:07 G 6189073.31 6189073.38 6189073.46 0.0284 0.0244

Saturn 12233-04-01 13:55 G 6189161.94 6189162.08 6189162.23 0.0284 0.0126

Saturn 12233-06-29 07:11 G 6189250.64 6189250.80 6189250.96 0.0284 0.0007

Saturn 12233-09-26 00:43 G 6189339.39 6189339.53 6189339.68 0.0284 0.0121

Saturn 12233-12-23 18:43 G 6189428.21 6189428.28 6189428.37 0.0284 0.0248

Venus 12234-05-17 17:31 G 6189573.19 6189573.23 6189573.27 0.3687 0.3371

Jupiter 12236-10-11 16:19 G 6190451.04 6190451.18 6190451.32 0.0543 0.0020

Earth 12239-03-11 11:45 G 6191331.88 6191331.99 6191332.09 0.2655 0.1096

Moon 12239-03-11 12:14 G 6191331.90 6191332.01 6191332.11 0.2661 0.1195 *

Mars 12240-09-25 20:23 G 6191896.20 6191896.35 6191896.51 0.1597 0.0077

Jupiter 12242-05-28 21:21 G 6192506.29 6192506.39 6192506.51 0.0486 0.0341

Jupiter 12242-08-26 14:09 G 6192595.95 6192596.09 6192596.23 0.0485 0.0239

Mars 12243-07-14 15:50 G 6192918.06 6192918.16 6192918.26 0.1935 0.1138

Saturn 12247-11-07 12:57 G 6194494.95 6194495.04 6194495.14 0.0275 0.0216

Saturn 12248-02-04 03:07 G 6194583.50 6194583.63 6194583.77 0.0275 0.0111

Neptune 12248-05-02 13:11 G 6194672.00 6194672.05 6194672.11 0.0089 0.0083

Saturn 12248-05-02 17:16 G 6194672.07 6194672.22 6194672.37 0.0275 0.0007 *

Neptune 12248-07-29 15:07 G 6194760.06 6194760.13 6194760.22 0.0089 0.0075

Saturn 12248-07-30 06:43 G 6194760.65 6194760.78 6194760.92 0.0275 0.0096

Jupiter 12248-07-30 18:28 G 6194761.13 6194761.27 6194761.41 0.0543 0.0151

Moon 12248-09-02 10:33 G 6194794.89 6194794.94 6194795.00 0.2682 0.2443

Earth 12248-09-02 11:45 G 6194794.92 6194794.99 6194795.07 0.2679 0.2215 *

Neptune 12248-10-25 17:16 G 6194848.12 6194848.22 6194848.32 0.0089 0.0067

Saturn 12248-10-26 20:09 G 6194849.24 6194849.34 6194849.45 0.0275 0.0195

Neptune 12249-01-21 19:11 G 6194936.19 6194936.30 6194936.42 0.0089 0.0059

Neptune 12249-04-19 20:52 G 6195024.26 6195024.37 6195024.51 0.0089 0.0052

Neptune 12249-07-16 23:02 G 6195112.33 6195112.46 6195112.60 0.0089 0.0043

Neptune 12249-10-13 00:57 G 6195200.41 6195200.54 6195200.68 0.0089 0.0036

Neptune 12250-01-09 02:52 G 6195288.48 6195288.62 6195288.77 0.0089 0.0028

Mars 12250-02-16 01:40 G 6195326.43 6195326.57 6195326.71 0.1595 0.0614

Neptune 12250-04-07 04:48 G 6195376.56 6195376.70 6195376.85 0.0089 0.0020

Neptune 12250-07-04 06:43 G 6195464.64 6195464.78 6195464.93 0.0089 0.0013

Neptune 12250-09-30 08:38 G 6195552.72 6195552.86 6195553.01 0.0089 0.0005

Neptune 12250-12-27 10:33 G 6195640.79 6195640.94 6195641.09 0.0089 0.0004

Neptune 12251-03-25 12:28 G 6195728.87 6195729.02 6195729.17 0.0089 0.0011

Neptune 12251-06-21 14:23 G 6195816.95 6195817.10 6195817.24 0.0089 0.0018

Neptune 12251-09-17 16:04 G 6195905.03 6195905.17 6195905.32 0.0089 0.0026

Neptune 12251-12-14 18:00 G 6195993.12 6195993.25 6195993.39 0.0089 0.0034

Neptune 12252-03-11 19:40 G 6196081.20 6196081.32 6196081.46 0.0089 0.0041

Earth 12252-03-13 06:57 G 6196082.78 6196082.79 6196082.81 0.2657 0.2625

Neptune 12252-06-07 21:36 G 6196169.28 6196169.40 6196169.53 0.0089 0.0049

Neptune 12252-09-03 23:16 G 6196257.37 6196257.47 6196257.60 0.0089 0.0056

Neptune 12252-12-01 01:11 G 6196345.46 6196345.55 6196345.66 0.0089 0.0064

Mars 12252-12-03 22:19 G 6196348.31 6196348.43 6196348.55 0.1938 0.0226

Neptune 12253-02-27 03:07 G 6196433.54 6196433.63 6196433.72 0.0089 0.0071

Neptune 12253-05-26 04:33 G 6196521.64 6196521.69 6196521.77 0.0089 0.0079

Neptune 12253-08-22 06:28 G 6196609.74 6196609.77 6196609.82 0.0089 0.0086

Jupiter 12254-03-16 23:02 G 6196816.44 6196816.46 6196816.48 0.0487 0.0482

Jupiter 12254-06-14 15:07 G 6196905.97 6196906.13 6196906.29 0.0485 0.0090

Moon 12259-03-07 00:57 G 6198632.46 6198632.54 6198632.63 0.2658 0.1760

Earth 12259-03-07 01:40 G 6198632.48 6198632.57 6198632.66 0.2653 0.1726 *

Mars	12259-07-09 06:57 G	6198756.70	6198756.79	6198756.88	0.1594	0.1270
Jupiter	12260-05-18 20:23 G	6199071.23	6199071.35	6199071.46	0.0542	0.0326
Jupiter	12260-08-16 11:45 G	6199160.89	6199160.99	6199161.09	0.0543	0.0387
Mars	12261-06-14 11:45 G	6199462.96	6199462.99	6199463.02	0.1602	0.1573
Moon	12261-09-05 12:43 G	6199545.89	6199546.03	6199546.16	0.2684	0.0080
Earth	12261-09-05 12:57 G	6199545.90	6199546.04	6199546.18	0.2677	0.0018 *
Mars	12262-04-26 04:33 G	6199778.58	6199778.69	6199778.80	0.1940	0.0747
Saturn	12262-08-19 13:26 G	6199893.93	6199894.06	6199894.18	0.0284	0.0169
Saturn	12262-11-16 06:28 G	6199982.61	6199982.77	6199982.93	0.0284	0.0049
Saturn	12263-02-13 00:00 G	6200071.34	6200071.50	6200071.65	0.0284	0.0075
Venus	12263-04-09 21:50 G	6200127.33	6200127.41	6200127.48	0.3685	0.2757
Saturn	12263-05-12 17:45 G	6200160.13	6200160.24	6200160.36	0.0284	0.0201
Jupiter	12266-04-02 16:33 G	6201216.03	6201216.19	6201216.35	0.0486	0.0055
Uranus	12266-11-20 00:14 G	6201447.50	6201447.51	6201447.54	0.0133	0.0132
Uranus	12267-02-16 04:04 G	6201535.61	6201535.67	6201535.76	0.0133	0.0114
Uranus	12267-05-15 07:55 G	6201623.74	6201623.83	6201623.94	0.0133	0.0096
Uranus	12267-08-11 11:45 G	6201711.88	6201711.99	6201712.11	0.0133	0.0078
Uranus	12267-11-07 15:36 G	6201800.02	6201800.15	6201800.28	0.0133	0.0060
Uranus	12268-02-03 19:11 G	6201888.17	6201888.30	6201888.44	0.0133	0.0042
Uranus	12268-05-01 23:02 G	6201976.32	6201976.46	6201976.60	0.0134	0.0025
Uranus	12268-07-29 02:38 G	6202064.47	6202064.61	6202064.75	0.0134	0.0007
Venus	12268-10-23 16:04 G	6202151.07	6202151.17	6202151.28	0.3685	0.1369
Uranus	12268-10-25 06:14 G	6202152.62	6202152.76	6202152.91	0.0134	0.0011
Uranus	12269-01-21 09:50 G	6202240.77	6202240.91	6202241.05	0.0134	0.0028
Uranus	12269-04-19 13:26 G	6202328.93	6202329.06	6202329.20	0.0134	0.0045
Uranus	12269-07-16 17:02 G	6202417.09	6202417.21	6202417.34	0.0134	0.0062
Uranus	12269-10-12 20:23 G	6202505.25	6202505.35	6202505.47	0.0134	0.0080
Uranus	12270-01-09 00:00 G	6202593.41	6202593.50	6202593.61	0.0134	0.0097
Uranus	12270-04-07 03:21 G	6202681.58	6202681.64	6202681.73	0.0134	0.0114
Venus	12270-05-07 05:02 G	6202711.62	6202711.71	6202711.80	0.3686	0.2632

Uranus 12270-07-04 07:11 G 6202769.77 6202769.80 6202769.83 0.0134 0.0130

Mars 12270-11-04 16:19 G 6202893.05 6202893.18 6202893.31 0.1599 0.0857

Mars 12271-09-16 10:19 G 6203208.88 6203208.93 6203208.99 0.1943 0.1730

Jupiter 12272-03-06 21:07 G 6203381.35 6203381.38 6203381.43 0.0541 0.0516

Moon 12272-03-08 21:07 G 6203383.27 6203383.38 6203383.50 0.2661 0.0178

Earth 12272-03-08 21:21 G 6203383.27 6203383.39 6203383.51 0.2654 0.0155 *

Jupiter 12272-06-04 13:11 G 6203470.92 6203471.05 6203471.18 0.0543 0.0203

Venus 12274-05-09 10:19 G 6204174.82 6204174.93 6204175.04 0.3686 0.0047

Earth 12274-09-08 14:38 G 6204297.04 6204297.11 6204297.17 0.2676 0.2332

Moon 12274-09-08 14:52 G 6204297.06 6204297.12 6204297.18 0.2683 0.2406 *

Venus 12275-11-21 05:02 G 6204735.58 6204735.71 6204735.84 0.3685 0.0617

Saturn 12277-03-26 15:07 G 6205227.06 6205227.13 6205227.21 0.0275 0.0242

Saturn 12277-06-23 05:31 G 6205315.60 6205315.73 6205315.86 0.0275 0.0135

Saturn 12277-09-19 19:40 G 6205404.17 6205404.32 6205404.47 0.0276 0.0031

Saturn 12277-12-17 09:21 G 6205492.75 6205492.89 6205493.03 0.0276 0.0072

Jupiter 12278-01-19 17:45 G 6205526.10 6205526.24 6205526.39 0.0486 0.0201

Saturn 12278-03-15 22:48 G 6205581.34 6205581.45 6205581.57 0.0276 0.0173

Jupiter 12278-04-19 11:02 G 6205615.86 6205615.96 6205616.06 0.0485 0.0386

Saturn 12278-06-12 12:00 G 6205669.98 6205670.00 6205670.03 0.0276 0.0272

Venus 12279-11-23 04:04 G 6206198.57 6206198.67 6206198.78 0.3687 0.1272

Mars 12280-03-26 21:07 G 6206323.22 6206323.38 6206323.53 0.1597 0.0161

Venus 12281-06-06 05:45 G 6206759.61 6206759.74 6206759.86 0.3684 0.1528

Mars 12283-01-12 16:04 G 6207345.07 6207345.17 6207345.26 0.1934 0.1232

Jupiter 12284-03-23 14:38 G 6207780.97 6207781.11 6207781.25 0.0542 0.0021

Earth 12285-03-11 16:48 G 6208134.10 6208134.20 6208134.30 0.2655 0.1421

Moon 12285-03-11 17:16 G 6208134.12 6208134.22 6208134.32 0.2661 0.1487 *

Venus 12285-06-07 21:50 G 6208222.33 6208222.41 6208222.49 0.3687 0.2530

Mars 12289-08-17 02:09 G 6209753.44 6209753.59 6209753.73 0.1595 0.0522

Jupiter 12289-11-07 19:26 G 6209836.20 6209836.31 6209836.42 0.0486 0.0343

Jupiter 12290-02-05 12:00 G 6209925.86 6209926.00 6209926.14 0.0485 0.0237

Saturn 12292-01-06 16:33 G 6210626.07 6210626.19 6210626.31 0.0284 0.0188

Saturn 12292-04-04 09:36 G 6210714.74 6210714.90 6210715.05 0.0284 0.0068

Mars 12292-06-03 22:33 G 6210775.32 6210775.44 6210775.55 0.1938 0.0311

Saturn 12292-07-02 02:52 G 6210803.46 6210803.62 6210803.78 0.0284 0.0055

Saturn 12292-09-28 20:38 G 6210892.24 6210892.36 6210892.49 0.0284 0.0180

Moon 12294-09-03 16:33 G 6211597.09 6211597.19 6211597.29 0.2682 0.1829

Earth 12294-09-03 17:31 G 6211597.13 6211597.23 6211597.34 0.2679 0.1772 *

Jupiter 12296-01-10 16:04 G 6212091.03 6212091.17 6212091.30 0.0542 0.0164

Jupiter 12296-04-09 06:57 G 6212180.78 6212180.79 6212180.80 0.0544 0.0542

Mars 12299-01-07 07:11 G 6213183.70 6213183.80 6213183.91 0.1594 0.1188

Jupiter 12301-08-27 21:07 G 6214146.36 6214146.38 6214146.41 0.0487 0.0480

Mars 12301-10-26 04:33 G 6214205.58 6214205.69 6214205.81 0.1941 0.0653

Jupiter 12301-11-25 13:26 G 6214235.90 6214236.06 6214236.22 0.0485 0.0093

Moon 12305-03-08 06:14 G 6215434.66 6215434.76 6215434.85 0.2659 0.1540

Earth 12305-03-08 06:43 G 6215434.68 6215434.78 6215434.88 0.2653 0.1391 *

Saturn 12306-08-14 16:48 G 6215959.19 6215959.20 6215959.22 0.0275 0.0272

Saturn 12306-11-11 07:11 G 6216047.68 6216047.80 6216047.92 0.0275 0.0165

Saturn 12307-02-07 21:21 G 6216136.25 6216136.39 6216136.54 0.0275 0.0060

Saturn 12307-05-07 11:16 G 6216224.82 6216224.97 6216225.11 0.0275 0.0043

Saturn 12307-08-04 00:43 G 6216313.41 6216313.53 6216313.66 0.0275 0.0143

Moon 12307-09-07 18:43 G 6216348.14 6216348.28 6216348.41 0.2684 0.0394

Earth 12307-09-07 18:43 G 6216348.15 6216348.28 6216348.42 0.2677 0.0484 *

Jupiter 12307-10-30 18:00 G 6216401.14 6216401.25 6216401.36 0.0542 0.0338

Saturn 12307-10-31 13:55 G 6216402.02 6216402.08 6216402.15 0.0275 0.0242

Jupiter 12308-01-28 09:36 G 6216490.80 6216490.90 6216491.00 0.0544 0.0377

Uranus 12308-05-28 01:40 G 6216611.53 6216611.57 6216611.63 0.0145 0.0137

Uranus 12308-08-24 07:55 G 6216699.74 6216699.83 6216699.95 0.0145 0.0112

Uranus 12308-11-20 14:23 G 6216787.98 6216788.10 6216788.25 0.0145 0.0086

Uranus 12309-02-16 21:21 G 6216876.23 6216876.39 6216876.54 0.0145 0.0059

Uranus 12309-05-16 03:50 G 6216964.49 6216964.66 6216964.83 0.0145 0.0033

Uranus 12309-08-12 10:33 G 6217052.76 6217052.94 6217053.11 0.0145 0.0007

Uranus 12309-11-08 17:02 G 6217141.04 6217141.21 6217141.38 0.0145 0.0021

Uranus 12310-02-04 23:45 G 6217229.33 6217229.49 6217229.66 0.0145 0.0048

Uranus 12310-05-04 06:43 G 6217317.63 6217317.78 6217317.93 0.0145 0.0075

Mars 12310-05-06 16:33 G 6217320.07 6217320.19 6217320.32 0.1600 0.0947

Uranus 12310-07-31 13:11 G 6217405.94 6217406.05 6217406.18 0.0145 0.0103

Uranus 12310-10-27 20:09 G 6217494.27 6217494.34 6217494.42 0.0145 0.0130

Mars 12311-03-18 10:33 G 6217635.88 6217635.94 6217636.00 0.1943 0.1634

Jupiter 12313-09-13 14:38 G 6218545.95 6218546.11 6218546.27 0.0486 0.0055

Earth 12318-03-11 02:23 G 6220185.48 6220185.60 6220185.72 0.2654 0.0199

Moon 12318-03-11 02:23 G 6220185.49 6220185.60 6220185.72 0.2661 0.0280 *

Jupiter 12319-08-18 19:40 G 6220711.28 6220711.32 6220711.36 0.0542 0.0514

Mars 12319-09-26 21:36 G 6220750.24 6220750.40 6220750.55 0.1597 0.0255

Venus 12319-11-15 19:55 G 6220800.24 6220800.33 6220800.42 0.3685 0.2328

Jupiter 12319-11-16 11:45 G 6220800.86 6220800.99 6220801.12 0.0543 0.0208

Saturn 12321-05-26 15:50 G 6221358.07 6221358.16 6221358.25 0.0284 0.0231

Saturn 12321-08-23 08:38 G 6221446.72 6221446.86 6221447.01 0.0284 0.0112

Saturn 12321-11-20 01:55 G 6221535.42 6221535.58 6221535.74 0.0284 0.0010

Saturn 12322-02-16 19:40 G 6221624.17 6221624.32 6221624.46 0.0284 0.0134

Saturn 12322-05-16 13:40 G 6221713.01 6221713.07 6221713.13 0.0284 0.0261

Mars 12322-07-14 16:04 G 6221772.09 6221772.17 6221772.26 0.1934 0.1327

Venus 12325-05-31 14:23 G 6222823.99 6222824.10 6222824.21 0.3686 0.0957

Jupiter 12325-07-02 16:04 G 6222856.03 6222856.17 6222856.32 0.0486 0.0198

Jupiter 12325-09-30 09:07 G 6222945.79 6222945.88 6222945.98 0.0485 0.0387

Venus 12326-12-13 04:48 G 6223384.59 6223384.70 6223384.81 0.3685 0.2033

Mars 12329-02-16 02:38 G 6224180.46 6224180.61 6224180.76 0.1595 0.0429

Neptune 12330-01-27 18:43 G 6224526.24 6224526.28 6224526.33 0.0088 0.0084

Neptune 12330-04-25 21:07 G 6224614.31 6224614.38 6224614.46 0.0088 0.0076

Neptune 12330-07-22 23:31 G 6224702.38 6224702.48 6224702.58 0.0088 0.0068

Neptune 12330-10-19 01:26 G 6224790.46 6224790.56 6224790.70 0.0088 0.0061

Venus 12330-12-15 08:23 G 6224847.74 6224847.85 6224847.96 0.3686 0.0384

Neptune 12331-01-15 03:50 G 6224878.54 6224878.66 6224878.81 0.0088 0.0053

Earth 12331-03-13 21:50 G 6224936.32 6224936.41 6224936.50 0.2656 0.1751

Moon 12331-03-13 22:19 G 6224936.35 6224936.43 6224936.52 0.2661 0.1834 *

Neptune 12331-04-13 06:14 G 6224966.63 6224966.76 6224966.92 0.0088 0.0045

Neptune 12331-07-10 08:38 G 6225054.72 6225054.86 6225055.02 0.0088 0.0037

Jupiter 12331-09-04 13:11 G 6225110.91 6225111.05 6225111.19 0.0542 0.0026

Neptune 12331-10-06 11:02 G 6225142.81 6225142.96 6225143.13 0.0088 0.0029

Mars 12331-12-04 22:33 G 6225202.32 6225202.44 6225202.56 0.1938 0.0399

Neptune 12332-01-02 13:26 G 6225230.91 6225231.06 6225231.23 0.0088 0.0021

Neptune 12332-03-30 16:04 G 6225319.01 6225319.17 6225319.34 0.0088 0.0013

Neptune 12332-06-26 18:28 G 6225407.10 6225407.27 6225407.44 0.0088 0.0005

Venus 12332-06-28 04:48 G 6225408.57 6225408.70 6225408.84 0.3685 0.0086

Neptune 12332-09-22 20:52 G 6225495.20 6225495.37 6225495.54 0.0088 0.0004

Neptune 12332-12-19 23:16 G 6225583.31 6225583.47 6225583.64 0.0088 0.0012

Neptune 12333-03-18 01:40 G 6225671.41 6225671.57 6225671.74 0.0088 0.0020

Neptune 12333-06-14 04:19 G 6225759.52 6225759.68 6225759.84 0.0088 0.0028

Neptune 12333-09-10 06:28 G 6225847.63 6225847.77 6225847.93 0.0088 0.0037

Neptune 12333-12-07 08:52 G 6225935.74 6225935.87 6225936.03 0.0088 0.0045

Neptune 12334-03-05 11:31 G 6226023.85 6226023.98 6226024.12 0.0088 0.0053

Neptune 12334-06-01 13:55 G 6226111.97 6226112.08 6226112.21 0.0088 0.0062

Neptune 12334-08-28 16:33 G 6226200.10 6226200.19 6226200.30 0.0088 0.0070

Neptune 12334-11-24 19:11 G 6226288.23 6226288.30 6226288.38 0.0088 0.0078

Neptune 12335-02-20 21:21 G 6226376.39 6226376.39 6226376.43 0.0088 0.0087

Saturn 12336-03-30 09:21 G 6226779.78 6226779.89 6226779.99 0.0275 0.0193

Saturn 12336-06-26 23:31 G 6226868.34 6226868.48 6226868.62 0.0276 0.0087

Venus 12336-06-30 02:09 G 6226871.49 6226871.59 6226871.69 0.3687 0.1663

Saturn 12336-09-23 13:26 G 6226956.91 6226957.06 6226957.21 0.0276 0.0017

Saturn 12336-12-21 03:07 G 6227045.50 6227045.63 6227045.76 0.0276 0.0119

Saturn 12337-03-19 16:19 G 6227134.10 6227134.18 6227134.27 0.0276 0.0219

Jupiter 12337-04-20 17:16 G 6227166.12 6227166.22 6227166.34 0.0487 0.0344

Jupiter 12337-07-19 10:04 G 6227255.78 6227255.92 6227256.06 0.0486 0.0237

Venus 12338-01-12 05:45 G 6227432.63 6227432.74 6227432.84 0.3684 0.2196

Mars 12338-07-09 07:55 G 6227610.72 6227610.83 6227610.94 0.1594 0.1092

Moon 12340-09-04 22:33 G 6228399.33 6228399.44 6228399.55 0.2683 0.1516

Earth 12340-09-04 23:31 G 6228399.36 6228399.48 6228399.60 0.2678 0.1322 *

Mars 12341-04-26 04:48 G 6228632.58 6228632.70 6228632.82 0.1940 0.0556

Venus 12342-01-13 19:55 G 6228895.26 6228895.33 6228895.39 0.3687 0.2903

Jupiter 12343-06-23 14:23 G 6229420.97 6229421.10 6229421.24 0.0542 0.0161

Jupiter 12343-09-21 05:16 G 6229510.72 6229510.72 6229510.73 0.0543 0.0542

Jupiter 12349-02-06 19:11 G 6231476.28 6231476.30 6231476.31 0.0487 0.0483

Jupiter 12349-05-07 11:16 G 6231565.81 6231565.97 6231566.13 0.0486 0.0090

Mars 12349-11-04 17:16 G 6231747.10 6231747.22 6231747.33 0.1599 0.1048

Mars 12350-09-16 10:33 G 6232062.87 6232062.94 6232063.02 0.1943 0.1546

Saturn 12350-10-13 19:11 G 6232090.22 6232090.30 6232090.37 0.0284 0.0249

Uranus 12350-12-11 07:40 G 6232148.78 6232148.82 6232148.87 0.0133 0.0126

Saturn 12351-01-10 12:00 G 6232178.86 6232179.00 6232179.14 0.0284 0.0131

Moon 12351-03-09 11:16 G 6232236.86 6232236.97 6232237.08 0.2659 0.1062

Earth 12351-03-09 11:45 G 6232236.88 6232236.99 6232237.10 0.2654 0.1057 *

Uranus 12351-03-09 11:31 G 6232236.90 6232236.98 6232237.07 0.0133 0.0108 *

Saturn 12351-04-09 05:02 G 6232267.55 6232267.71 6232267.87 0.0284 0.0011

Uranus 12351-06-05 15:21 G 6232325.04 6232325.14 6232325.25 0.0133 0.0090

Saturn 12351-07-06 22:33 G 6232356.30 6232356.44 6232356.59 0.0284 0.0114

Uranus 12351-09-01 18:57 G 6232413.18 6232413.29 6232413.42 0.0133 0.0073

Saturn 12351-10-03 16:33 G 6232445.11 6232445.19 6232445.28 0.0284 0.0241

Uranus 12351-11-28 22:48 G 6232501.32 6232501.45 6232501.59 0.0133 0.0055

Uranus 12352-02-25 02:23 G 6232589.47 6232589.60 6232589.75 0.0134 0.0038

Uranus 12352-05-23 06:14 G 6232677.62 6232677.76 6232677.91 0.0134 0.0020

Uranus 12352-08-19 10:04 G 6232765.77 6232765.92 6232766.06 0.0134 0.0004

Uranus 12352-11-15 13:40 G 6232853.93 6232854.07 6232854.21 0.0134 0.0016

Pluto 12352-12-01 17:16 G 6232870.20 6232870.22 6232870.25 0.0071 0.0069

Uranus 12353-02-11 17:16 G 6232942.08 6232942.22 6232942.36 0.0134 0.0033

Pluto 12353-02-27 18:00 G 6232958.19 6232958.25 6232958.32 0.0071 0.0060

Uranus 12353-05-10 20:52 G 6233030.24 6233030.37 6233030.50 0.0134 0.0050

Pluto 12353-05-26 18:43 G 6233046.19 6233046.28 6233046.38 0.0071 0.0051

Uranus 12353-08-07 00:14 G 6233118.40 6233118.51 6233118.64 0.0134 0.0068

Pluto 12353-08-22 19:26 G 6233134.21 6233134.31 6233134.42 0.0071 0.0042

Moon 12353-09-08 00:28 G 6233150.39 6233150.52 6233150.65 0.2684 0.0996

Earth 12353-09-08 00:43 G 6233150.40 6233150.53 6233150.66 0.2677 0.0941 *

Uranus 12353-11-03 03:50 G 6233206.56 6233206.66 6233206.78 0.0134 0.0085

Pluto 12353-11-18 20:09 G 6233222.22 6233222.34 6233222.46 0.0071 0.0033

Uranus 12354-01-30 07:26 G 6233294.72 6233294.81 6233294.91 0.0134 0.0102

Pluto 12354-02-14 20:38 G 6233310.25 6233310.36 6233310.50 0.0071 0.0025

Uranus 12354-04-28 10:48 G 6233382.90 6233382.95 6233383.03 0.0134 0.0119

Pluto 12354-05-13 21:36 G 6233398.27 6233398.40 6233398.54 0.0072 0.0015

Pluto 12354-08-09 22:19 G 6233486.30 6233486.43 6233486.57 0.0072 0.0006

Pluto 12354-11-05 23:02 G 6233574.33 6233574.46 6233574.60 0.0072 0.0005

Pluto 12355-02-01 23:45 G 6233662.36 6233662.49 6233662.63 0.0072 0.0014

Jupiter 12355-04-11 15:21 G 6233731.04 6233731.14 6233731.25 0.0542 0.0350

Pluto 12355-05-01 00:28 G 6233750.40 6233750.52 6233750.65 0.0072 0.0023

Jupiter 12355-07-10 06:57 G 6233820.69 6233820.79 6233820.90 0.0543 0.0365

Pluto 12355-07-28 01:11 G 6233838.44 6233838.55 6233838.68 0.0072 0.0033

Pluto 12355-10-24 02:09 G 6233926.48 6233926.59 6233926.70 0.0072 0.0043

Pluto 12356-01-20 02:38 G 6234014.53 6234014.61 6234014.71 0.0072 0.0053

Pluto 12356-04-17 03:21 G 6234102.59 6234102.64 6234102.72 0.0072 0.0063

Pluto 12356-07-14 04:19 G 6234190.68 6234190.68 6234190.69 0.0073 0.0072

Mars 12359-03-27 21:50 G 6235177.26 6235177.41 6235177.56 0.1597 0.0344

Jupiter 12361-02-23 12:43 G 6235875.87 6235876.03 6235876.19 0.0486 0.0054

Mars 12362-01-12 16:04 G 6236199.09 6236199.17 6236199.25 0.1935 0.1413

Earth 12364-03-11 07:26 G 6236987.69 6236987.81 6236987.93 0.2655 0.0529

Moon	12364-03-11 07:40 G	6236987.71	6236987.82	6236987.94	0.2661	0.0508 *
Saturn	12365-08-17 11:02 G	6237511.88	6237511.96	6237512.06	0.0275	0.0221
Saturn	12365-11-14 01:26 G	6237600.43	6237600.56	6237600.70	0.0275	0.0115
Saturn	12366-02-10 15:36 G	6237689.00	6237689.15	6237689.30	0.0275	0.0012
Saturn	12366-05-10 05:16 G	6237777.58	6237777.72	6237777.86	0.0275	0.0091
Saturn	12366-08-06 18:28 G	6237866.17	6237866.27	6237866.38	0.0275	0.0191
Jupiter	12367-01-28 17:16 G	6238041.19	6238041.22	6238041.25	0.0542	0.0527
Jupiter	12367-04-28 09:21 G	6238130.76	6238130.89	6238131.02	0.0543	0.0196
Mars	12368-08-17 02:52 G	6238607.47	6238607.62	6238607.78	0.1595	0.0340
Venus	12370-12-06 23:45 G	6239449.44	6239449.49	6239449.53	0.3685	0.3312
Mars	12371-06-04 22:48 G	6239629.34	6239629.45	6239629.57	0.1938	0.0503
Jupiter	12372-12-12 14:09 G	6240185.94	6240186.09	6240186.23	0.0486	0.0198
Jupiter	12373-03-12 06:57 G	6240275.70	6240275.79	6240275.89	0.0485	0.0386
Venus	12376-06-21 18:14 G	6241473.16	6241473.26	6241473.36	0.3685	0.1899
Earth	12377-03-14 02:52 G	6241738.55	6241738.62	6241738.69	0.2656	0.2073
Moon	12377-03-14 03:36 G	6241738.58	6241738.65	6241738.71	0.2659	0.2197 *
Venus	12378-01-03 04:33 G	6242033.65	6242033.69	6242033.74	0.3686	0.3400
Mars	12378-01-07 08:09 G	6242037.73	6242037.84	6242037.96	0.1594	0.1005
Jupiter	12379-02-14 11:31 G	6242440.84	6242440.98	6242441.12	0.0543	0.0026
Saturn	12380-05-29 11:16 G	6242910.85	6242910.97	6242911.09	0.0284	0.0174
Saturn	12380-08-26 04:19 G	6242999.52	6242999.68	6242999.83	0.0284	0.0054
Mars	12380-10-25 04:48 G	6243059.58	6243059.70	6243059.82	0.1940	0.0467
Saturn	12380-11-22 21:36 G	6243088.25	6243088.40	6243088.56	0.0284	0.0069
Saturn	12381-02-19 15:21 G	6243177.03	6243177.14	6243177.26	0.0284	0.0194
Venus	12382-01-05 12:28 G	6243496.91	6243497.02	6243497.13	0.3686	0.0546
Venus	12383-07-20 04:19 G	6244057.56	6244057.68	6244057.81	0.3685	0.1437
Moon	12384-03-06 20:23 G	6244288.30	6244288.35	6244288.40	0.2656	0.2392
Earth	12384-03-06 21:07 G	6244288.33	6244288.38	6244288.44	0.2653	0.2329 *
Jupiter	12384-09-30 15:50 G	6244496.04	6244496.16	6244496.27	0.0486	0.0340
Jupiter	12384-12-29 08:09 G	6244585.70	6244585.84	6244585.99	0.0485	0.0239

Moon 12386-09-06 04:33 G 6245201.56 6245201.69 6245201.82 0.2684 0.0889

Earth 12386-09-06 05:16 G 6245201.59 6245201.72 6245201.85 0.2678 0.0881 *

Venus 12387-07-22 06:28 G 6245520.66 6245520.77 6245520.88 0.3686 0.0776

Venus 12389-02-02 04:48 G 6246081.57 6246081.70 6246081.83 0.3684 0.0660

Mars 12389-05-05 17:45 G 6246174.13 6246174.24 6246174.35 0.1600 0.1143

Mars 12390-03-17 10:48 G 6246489.87 6246489.95 6246490.03 0.1943 0.1443

Jupiter 12390-12-03 12:57 G 6246750.90 6246751.04 6246751.18 0.0542 0.0156

Uranus 12392-06-17 09:07 G 6247312.81 6247312.88 6247312.96 0.0145 0.0130

Uranus 12392-09-13 15:21 G 6247401.04 6247401.14 6247401.27 0.0145 0.0105

Uranus 12392-12-10 21:50 G 6247489.28 6247489.41 6247489.56 0.0145 0.0079

Venus 12393-02-04 00:14 G 6247544.42 6247544.51 6247544.60 0.3687 0.2049

Uranus 12393-03-09 04:33 G 6247577.53 6247577.69 6247577.85 0.0145 0.0052

Uranus 12393-06-05 11:16 G 6247665.80 6247665.97 6247666.14 0.0145 0.0026

Uranus 12393-09-01 17:45 G 6247754.07 6247754.24 6247754.42 0.0145 0.0003

Uranus 12393-11-29 00:28 G 6247842.35 6247842.52 6247842.69 0.0145 0.0028

Uranus 12394-02-25 07:11 G 6247930.64 6247930.80 6247930.96 0.0145 0.0055

Uranus 12394-05-24 13:40 G 6248018.94 6248019.07 6248019.23 0.0145 0.0083

Venus 12394-08-19 05:45 G 6248105.66 6248105.74 6248105.82 0.3684 0.2869

Uranus 12394-08-20 20:38 G 6248107.26 6248107.36 6248107.48 0.0145 0.0110

Uranus 12394-11-17 03:50 G 6248195.61 6248195.66 6248195.71 0.0144 0.0137

Saturn 12395-01-04 12:43 G 6248243.97 6248244.03 6248244.09 0.0275 0.0251

Saturn 12395-04-03 03:07 G 6248332.51 6248332.63 6248332.76 0.0275 0.0144

Saturn 12395-06-30 17:16 G 6248421.07 6248421.22 6248421.37 0.0276 0.0039

Saturn 12395-09-27 07:11 G 6248509.65 6248509.80 6248509.94 0.0276 0.0064

Saturn 12395-12-24 20:38 G 6248598.24 6248598.36 6248598.48 0.0276 0.0164

Saturn 12396-03-22 09:50 G 6248686.87 6248686.91 6248686.95 0.0276 0.0263

Jupiter 12396-07-19 17:02 G 6248806.20 6248806.21 6248806.23 0.0487 0.0484

Jupiter 12396-10-17 09:07 G 6248895.73 6248895.88 6248896.04 0.0486 0.0090

Moon 12397-03-09 16:33 G 6249039.08 6249039.19 6249039.31 0.2660 0.0826

Earth 12397-03-09 17:02 G 6249039.09 6249039.21 6249039.32 0.2654 0.0722 *

Venus 12398-08-20 17:45 G 6249568.20 6249568.24 6249568.29 0.3687 0.3279

Mars 12398-09-25 22:33 G 6249604.29 6249604.44 6249604.59 0.1597 0.0443

Moon 12399-09-09 06:28 G 6249952.65 6249952.77 6249952.89 0.2683 0.1329

Earth 12399-09-09 06:28 G 6249952.65 6249952.77 6249952.89 0.2677 0.1402 *

Mars 12401-07-13 16:19 G 6250626.11 6250626.18 6250626.26 0.1934 0.1513

Jupiter 12402-09-21 14:09 G 6251060.98 6251061.09 6251061.20 0.0541 0.0343

Jupiter 12402-12-20 05:31 G 6251150.63 6251150.73 6251150.84 0.0543 0.0369

Mars 12408-02-16 03:21 G 6253034.49 6253034.64 6253034.79 0.1595 0.0248

Jupiter 12408-08-05 10:33 G 6253205.78 6253205.94 6253206.10 0.0486 0.0056

Saturn 12409-10-16 14:09 G 6253642.98 6253643.09 6253643.21 0.0284 0.0194

Saturn 12410-01-13 07:11 G 6253731.65 6253731.80 6253731.96 0.0284 0.0075

Earth 12410-03-12 12:28 G 6253789.91 6253790.02 6253790.14 0.2655 0.0860

Moon 12410-03-12 12:43 G 6253789.92 6253790.03 6253790.14 0.2662 0.0971 *

Saturn 12410-04-12 00:28 G 6253820.37 6253820.52 6253820.68 0.0284 0.0049

Saturn 12410-07-09 18:14 G 6253909.14 6253909.26 6253909.39 0.0284 0.0173

Mars 12410-12-03 22:48 G 6254056.33 6254056.45 6254056.56 0.1938 0.0580

Neptune 12412-11-01 10:04 G 6254754.92 6254754.92 6254754.96 0.0089 0.0089

Neptune 12413-01-28 12:14 G 6254842.96 6254843.01 6254843.09 0.0089 0.0080

Neptune 12413-04-26 14:09 G 6254931.02 6254931.09 6254931.19 0.0089 0.0073

Neptune 12413-07-23 16:19 G 6255019.08 6255019.18 6255019.29 0.0089 0.0064

Neptune 12413-10-19 18:14 G 6255107.15 6255107.26 6255107.38 0.0089 0.0057

Neptune 12414-01-15 20:09 G 6255195.22 6255195.34 6255195.48 0.0089 0.0049

Neptune 12414-04-13 22:19 G 6255283.30 6255283.43 6255283.56 0.0089 0.0041

Jupiter 12414-07-10 14:52 G 6255371.11 6255371.12 6255371.13 0.0541 0.0538

Neptune 12414-07-11 00:00 G 6255371.37 6255371.50 6255371.65 0.0089 0.0034

Neptune 12414-10-07 02:09 G 6255459.45 6255459.59 6255459.74 0.0089 0.0025

Jupiter 12414-10-08 06:57 G 6255460.66 6255460.79 6255460.92 0.0543 0.0185

Neptune 12415-01-03 04:04 G 6255547.52 6255547.67 6255547.82 0.0089 0.0017

Neptune 12415-04-01 06:00 G 6255635.60 6255635.75 6255635.90 0.0089 0.0010

Neptune 12415-06-28 07:55 G 6255723.68 6255723.83 6255723.98 0.0089 0.0002

Neptune 12415-09-24 09:50 G 6255811.76 6255811.91 6255812.06 0.0089 0.0006

Neptune 12415-12-21 11:45 G 6255899.84 6255899.99 6255900.14 0.0089 0.0013

Neptune 12416-03-18 13:26 G 6255987.92 6255988.06 6255988.21 0.0089 0.0021

Neptune 12416-06-14 15:21 G 6256076.00 6256076.14 6256076.28 0.0089 0.0029

Neptune 12416-09-10 17:02 G 6256164.09 6256164.21 6256164.36 0.0089 0.0037

Neptune 12416-12-07 19:11 G 6256252.17 6256252.30 6256252.43 0.0089 0.0044

Neptune 12417-03-05 20:38 G 6256340.25 6256340.36 6256340.50 0.0089 0.0052

Neptune 12417-06-01 22:48 G 6256428.34 6256428.45 6256428.56 0.0089 0.0059

Mars 12417-07-08 08:38 G 6256464.74 6256464.86 6256464.99 0.1594 0.0916

Neptune 12417-08-29 00:14 G 6256516.43 6256516.51 6256516.62 0.0089 0.0067

Neptune 12417-11-25 02:09 G 6256604.52 6256604.59 6256604.68 0.0089 0.0074

Neptune 12418-02-21 04:04 G 6256692.62 6256692.67 6256692.74 0.0089 0.0081

Neptune 12418-05-20 05:45 G 6256780.73 6256780.74 6256780.77 0.0089 0.0088

Earth 12419-09-04 10:04 G 6257252.90 6257252.92 6257252.94 0.2679 0.2637

Mars 12420-04-25 05:02 G 6257486.59 6257486.71 6257486.83 0.1941 0.0366

Jupiter 12420-05-24 12:14 G 6257515.87 6257516.01 6257516.16 0.0486 0.0196

Jupiter 12420-08-22 05:16 G 6257605.63 6257605.72 6257605.82 0.0485 0.0389

Earth 12423-03-15 07:55 G 6258540.78 6258540.83 6258540.88 0.2656 0.2396

Moon 12423-03-15 08:38 G 6258540.82 6258540.86 6258540.90 0.2658 0.2452 *

Saturn 12424-08-20 05:31 G 6259064.61 6259064.73 6259064.85 0.0275 0.0170

Saturn 12424-11-16 19:40 G 6259153.17 6259153.32 6259153.46 0.0275 0.0065

Saturn 12425-02-13 09:21 G 6259241.75 6259241.89 6259242.04 0.0275 0.0039

Saturn 12425-05-12 23:02 G 6259330.33 6259330.46 6259330.59 0.0275 0.0139

Saturn 12425-08-09 12:28 G 6259418.95 6259419.02 6259419.09 0.0275 0.0237

Jupiter 12426-07-27 09:07 G 6259770.74 6259770.88 6259771.02 0.0543 0.0016

Mars 12426-11-28 14:09 G 6259895.07 6259895.09 6259895.12 0.1592 0.1563

Venus 12427-07-13 21:50 G 6260122.34 6260122.41 6260122.48 0.3685 0.2876

Mars 12428-11-03 18:14 G 6260601.16 6260601.26 6260601.35 0.1600 0.1239

Mars 12429-09-15 11:02 G 6260916.87 6260916.96 6260917.05 0.1943 0.1344

Moon 12430-03-08 01:40 G 6261090.50 6261090.57 6261090.64 0.2656 0.2136

Earth	12430-03-08 02:23 G	6261090.52	6261090.60	6261090.68	0.2653	0.1981 *
Jupiter	12432-03-12 13:55 G	6261825.97	6261826.08	6261826.19	0.0486	0.0339
Jupiter	12432-06-10 06:14 G	6261915.62	6261915.76	6261915.90	0.0485	0.0239
Moon	12432-09-06 10:19 G	6262003.80	6262003.93	6262004.07	0.2684	0.0587
Earth	12432-09-06 11:02 G	6262003.82	6262003.96	6262004.10	0.2678	0.0428 *
Venus	12433-01-26 16:19 G	6262146.08	6262146.18	6262146.29	0.3685	0.1480
Venus	12434-08-10 04:19 G	6262706.60	6262706.68	6262706.76	0.3685	0.2814
Uranus	12434-12-31 15:07 G	6262850.07	6262850.13	6262850.19	0.0133	0.0121
Uranus	12435-03-29 18:57 G	6262938.20	6262938.29	6262938.38	0.0133	0.0103
Uranus	12435-06-25 22:33 G	6263026.34	6263026.44	6263026.56	0.0133	0.0085
Uranus	12435-09-22 02:23 G	6263114.48	6263114.60	6263114.73	0.0133	0.0067
Uranus	12435-12-19 06:14 G	6263202.63	6263202.76	6263202.90	0.0133	0.0049
Uranus	12436-03-16 09:50 G	6263290.77	6263290.91	6263291.06	0.0134	0.0032
Uranus	12436-06-12 13:40 G	6263378.93	6263379.07	6263379.21	0.0134	0.0014
Uranus	12436-09-08 17:16 G	6263467.08	6263467.22	6263467.37	0.0134	0.0004
Uranus	12436-12-05 20:52 G	6263555.23	6263555.37	6263555.52	0.0134	0.0021
Uranus	12437-03-04 00:28 G	6263643.39	6263643.52	6263643.66	0.0134	0.0039
Uranus	12437-05-31 04:04 G	6263731.55	6263731.67	6263731.81	0.0134	0.0056
Uranus	12437-08-27 07:40 G	6263819.71	6263819.82	6263819.94	0.0134	0.0073
Uranus	12437-11-23 11:16 G	6263907.87	6263907.97	6263908.08	0.0134	0.0090
Uranus	12438-02-19 14:52 G	6263996.04	6263996.12	6263996.21	0.0134	0.0107
Mars	12438-03-26 22:48 G	6264031.31	6264031.45	6264031.60	0.1597	0.0538
Jupiter	12438-05-15 11:16 G	6264080.83	6264080.97	6264081.10	0.0542	0.0158
Uranus	12438-05-18 18:14 G	6264084.22	6264084.26	6264084.32	0.0134	0.0124
Pluto	12438-07-23 16:48 G	6264150.12	6264150.20	6264150.31	0.0073	0.0064
Venus	12438-08-12 10:33 G	6264169.83	6264169.94	6264170.05	0.3686	0.0131
Pluto	12438-10-19 18:57 G	6264238.17	6264238.29	6264238.45	0.0073	0.0050
Pluto	12439-01-15 21:21 G	6264326.24	6264326.39	6264326.58	0.0073	0.0035
Saturn	12439-03-05 13:26 G	6264374.98	6264375.06	6264375.15	0.0284	0.0238
Pluto	12439-04-13 23:45 G	6264414.32	6264414.49	6264414.69	0.0073	0.0021

Saturn 12439-06-02 06:28 G 6264463.62 6264463.77 6264463.91 0.0284 0.0119

Pluto 12439-07-11 02:09 G 6264502.41 6264502.59 6264502.79 0.0073 0.0007

Saturn 12439-08-29 23:31 G 6264552.32 6264552.48 6264552.64 0.0284 0.0005

Pluto 12439-10-07 04:19 G 6264590.50 6264590.68 6264590.88 0.0073 0.0008

Saturn 12439-11-26 17:02 G 6264641.07 6264641.21 6264641.36 0.0284 0.0127

Pluto 12440-01-03 06:28 G 6264678.60 6264678.77 6264678.96 0.0073 0.0021

Saturn 12440-02-23 11:02 G 6264729.89 6264729.96 6264730.04 0.0284 0.0253

Venus 12440-02-24 04:04 G 6264730.55 6264730.67 6264730.80 0.3685 0.0822

Pluto 12440-03-31 08:52 G 6264766.71 6264766.87 6264767.04 0.0072 0.0035

Pluto 12440-06-27 10:48 G 6264854.82 6264854.95 6264855.10 0.0072 0.0049

Pluto 12440-09-23 13:11 G 6264942.96 6264943.05 6264943.15 0.0072 0.0062

Mars 12441-01-11 16:19 G 6265053.12 6265053.18 6265053.25 0.1934 0.1599

Moon 12443-03-10 21:50 G 6265841.30 6265841.41 6265841.53 0.2660 0.0355

Earth 12443-03-10 22:04 G 6265841.30 6265841.42 6265841.54 0.2654 0.0377 *

Jupiter 12443-12-30 15:36 G 6266136.13 6266136.15 6266136.18 0.0487 0.0478

Venus 12444-02-26 04:33 G 6266193.58 6266193.69 6266193.79 0.3687 0.1174

Jupiter 12444-03-29 07:40 G 6266225.66 6266225.82 6266225.98 0.0485 0.0093

Venus 12445-09-09 04:48 G 6266754.57 6266754.70 6266754.82 0.3684 0.1318

Earth 12445-09-09 12:28 G 6266754.92 6266755.02 6266755.12 0.2677 0.1858

Moon 12445-09-09 12:43 G 6266754.94 6266755.03 6266755.12 0.2683 0.1988 *

Mars 12447-08-17 03:50 G 6267461.51 6267461.66 6267461.82 0.1595 0.0156

Venus 12449-09-10 22:19 G 6268217.35 6268217.43 6268217.51 0.3687 0.2436

Jupiter 12450-03-03 12:43 G 6268390.92 6268391.03 6268391.14 0.0541 0.0338

Jupiter 12450-06-01 04:19 G 6268480.58 6268480.68 6268480.78 0.0543 0.0375

Mars 12450-06-03 23:02 G 6268483.35 6268483.46 6268483.57 0.1938 0.0686

Venus 12451-03-26 05:45 G 6268778.71 6268778.74 6268778.77 0.3683 0.3562

Saturn 12454-01-07 06:43 G 6269796.68 6269796.78 6269796.88 0.0275 0.0202

Saturn 12454-04-05 20:52 G 6269885.23 6269885.37 6269885.52 0.0275 0.0097

Saturn 12454-07-03 11:02 G 6269973.81 6269973.96 6269974.11 0.0275 0.0008

Saturn 12454-09-30 00:43 G 6270062.39 6270062.53 6270062.66 0.0276 0.0109

Saturn	12454-12-27 14:09 G	6270150.99	6270151.09	6270151.18	0.0276	0.0209
Venus	12455-03-27 15:50 G	6270241.15	6270241.16	6270241.17	0.3688	0.3653
Jupiter	12456-01-16 08:38 G	6270535.70	6270535.86	6270536.02	0.0486	0.0056
Earth	12456-03-12 17:31 G	6270592.13	6270592.23	6270592.34	0.2655	0.1191
Moon	12456-03-12 18:00 G	6270592.14	6270592.25	6270592.35	0.2661	0.1177 *
Mars	12457-01-06 09:07 G	6270891.75	6270891.88	6270892.01	0.1594	0.0822
Mars	12459-10-25 05:16 G	6271913.60	6271913.72	6271913.84	0.1940	0.0279
Jupiter	12461-12-20 13:40 G	6272701.04	6272701.07	6272701.10	0.0541	0.0526
Jupiter	12462-03-20 05:45 G	6272790.61	6272790.74	6272790.87	0.0543	0.0195
Moon	12465-09-04 14:38 G	6274055.05	6274055.11	6274055.18	0.2683	0.2331
Earth	12465-09-04 15:50 G	6274055.08	6274055.16	6274055.23	0.2679	0.2198 *
Mars	12466-05-29 14:38 G	6274322.05	6274322.11	6274322.16	0.1592	0.1479
Jupiter	12467-11-04 10:19 G	6274845.78	6274845.93	6274846.07	0.0486	0.0197
Jupiter	12468-02-02 03:07 G	6274935.54	6274935.63	6274935.73	0.0485	0.0388
Mars	12468-05-04 18:43 G	6275028.19	6275028.28	6275028.36	0.1599	0.1336
Saturn	12468-07-22 16:19 G	6275107.12	6275107.18	6275107.25	0.0284	0.0259
Saturn	12468-10-19 09:07 G	6275195.74	6275195.88	6275196.02	0.0284	0.0141
Saturn	12469-01-16 02:09 G	6275284.43	6275284.59	6275284.75	0.0284	0.0021
Mars	12469-03-16 11:02 G	6275343.87	6275343.96	6275344.05	0.1943	0.1258
Saturn	12469-04-14 19:40 G	6275373.17	6275373.32	6275373.47	0.0284	0.0104
Saturn	12469-07-12 13:26 G	6275461.98	6275462.06	6275462.16	0.0284	0.0230
Jupiter	12474-01-06 06:57 G	6277100.64	6277100.79	6277100.93	0.0543	0.0017
Moon	12476-03-08 06:43 G	6277892.69	6277892.78	6277892.87	0.2657	0.1721
Earth	12476-03-08 07:26 G	6277892.72	6277892.81	6277892.90	0.2653	0.1644 *
Uranus	12476-07-07 16:19 G	6278014.10	6278014.18	6278014.27	0.0145	0.0124
Uranus	12476-10-03 22:48 G	6278102.33	6278102.45	6278102.58	0.0145	0.0098
Uranus	12476-12-31 05:16 G	6278190.58	6278190.72	6278190.87	0.0145	0.0072
Uranus	12477-03-29 11:45 G	6278278.83	6278278.99	6278279.16	0.0145	0.0046
Uranus	12477-06-25 18:28 G	6278367.10	6278367.27	6278367.44	0.0145	0.0019
Uranus	12477-09-22 00:57 G	6278455.37	6278455.54	6278455.72	0.0145	0.0008

Mars 12477-09-24 23:16 G 6278458.33 6278458.47 6278458.61 0.1597 0.0626

Uranus 12477-12-19 07:40 G 6278543.66 6278543.82 6278543.99 0.0145 0.0034

Uranus 12478-03-17 14:23 G 6278631.95 6278632.10 6278632.26 0.0145 0.0061

Uranus 12478-06-13 21:07 G 6278720.25 6278720.38 6278720.52 0.0144 0.0089

Moon 12478-09-07 16:19 G 6278806.04 6278806.18 6278806.31 0.2684 0.0067

Earth 12478-09-07 16:48 G 6278806.06 6278806.20 6278806.34 0.2678 0.0020 *

Uranus 12478-09-10 04:04 G 6278808.57 6278808.67 6278808.78 0.0144 0.0116

Uranus 12478-12-07 10:48 G 6278896.94 6278896.95 6278896.98 0.0144 0.0144

Jupiter 12479-08-23 12:14 G 6279155.90 6279156.01 6279156.12 0.0486 0.0334

Jupiter 12479-11-21 04:33 G 6279245.55 6279245.69 6279245.83 0.0485 0.0244

Mars 12480-07-12 16:33 G 6279480.14 6279480.19 6279480.25 0.1935 0.1695

Saturn 12483-05-27 09:07 G 6280528.80 6280528.88 6280528.97 0.0275 0.0227

Saturn 12483-08-23 23:31 G 6280617.34 6280617.48 6280617.61 0.0275 0.0121

Saturn 12483-11-20 13:26 G 6280705.91 6280706.06 6280706.21 0.0275 0.0018

Saturn 12484-02-17 03:07 G 6280794.49 6280794.63 6280794.77 0.0275 0.0085

Venus 12484-02-17 20:09 G 6280795.26 6280795.34 6280795.43 0.3685 0.2439

Saturn 12484-05-15 16:33 G 6280883.09 6280883.19 6280883.30 0.0275 0.0185

Jupiter 12485-10-25 08:38 G 6281410.73 6281410.86 6281411.00 0.0542 0.0170

Jupiter 12486-01-23 00:00 G 6281500.48 6281500.50 6281500.52 0.0544 0.0538

Mars 12487-02-15 04:19 G 6281888.53 6281888.68 6281888.84 0.1596 0.0062

Moon 12489-03-11 03:07 G 6282643.51 6282643.63 6282643.75 0.2661 0.0102

Earth 12489-03-11 03:07 G 6282643.51 6282643.63 6282643.75 0.2654 0.0084 *

Venus 12489-09-02 14:38 G 6282819.00 6282819.11 6282819.22 0.3686 0.1057

Mars 12489-12-02 23:16 G 6282910.36 6282910.47 6282910.58 0.1938 0.0782

Venus 12491-03-17 03:50 G 6283379.56 6283379.66 6283379.77 0.3685 0.2221

Jupiter 12491-06-11 13:40 G 6283466.05 6283466.07 6283466.11 0.0487 0.0476

Jupiter 12491-09-09 05:45 G 6283555.58 6283555.74 6283555.90 0.0485 0.0096

Earth 12491-09-10 18:14 G 6283557.19 6283557.26 6283557.33 0.2677 0.2323

Moon 12491-09-10 18:43 G 6283557.22 6283557.28 6283557.35 0.2683 0.2330 *

Neptune 12494-10-24 17:31 G 6284697.18 6284697.23 6284697.30 0.0088 0.0081

Neptune 12495-01-20 19:55 G 6284785.25 6284785.33 6284785.43 0.0088 0.0073

Venus 12495-03-19 08:38 G 6284842.75 6284842.86 6284842.97 0.3686 0.0293

Neptune 12495-04-18 22:33 G 6284873.33 6284873.44 6284873.54 0.0088 0.0065

Neptune 12495-07-16 00:28 G 6284961.41 6284961.52 6284961.66 0.0088 0.0058

Neptune 12495-10-12 02:52 G 6285049.50 6285049.62 6285049.77 0.0088 0.0050

Neptune 12496-01-08 05:16 G 6285137.58 6285137.72 6285137.87 0.0088 0.0042

Neptune 12496-04-05 07:40 G 6285225.68 6285225.82 6285225.98 0.0088 0.0034

Neptune 12496-07-02 10:04 G 6285313.77 6285313.92 6285314.09 0.0088 0.0026

Mars 12496-07-07 09:36 G 6285318.77 6285318.90 6285319.04 0.1594 0.0731

Neptune 12496-09-28 12:28 G 6285401.86 6285402.02 6285402.19 0.0088 0.0018

Venus 12496-09-30 04:04 G 6285403.54 6285403.67 6285403.80 0.3684 0.0174

Neptune 12496-12-25 14:52 G 6285489.96 6285490.12 6285490.29 0.0088 0.0010

Neptune 12497-03-23 17:16 G 6285578.06 6285578.22 6285578.39 0.0088 0.0003

Neptune 12497-06-19 19:40 G 6285666.16 6285666.32 6285666.49 0.0088 0.0007

Jupiter 12497-08-13 10:48 G 6285720.84 6285720.95 6285721.06 0.0542 0.0341

Neptune 12497-09-15 22:04 G 6285754.26 6285754.42 6285754.59 0.0088 0.0015

Jupiter 12497-11-11 02:23 G 6285810.50 6285810.60 6285810.70 0.0544 0.0375

Neptune 12497-12-13 00:43 G 6285842.37 6285842.53 6285842.69 0.0088 0.0023

Saturn 12498-03-08 08:23 G 6285927.73 6285927.85 6285927.97 0.0284 0.0184

Neptune 12498-03-11 03:07 G 6285930.47 6285930.63 6285930.79 0.0088 0.0031

Saturn 12498-06-05 01:11 G 6286016.40 6286016.55 6286016.71 0.0284 0.0065

Neptune 12498-06-07 05:16 G 6286018.58 6286018.72 6286018.88 0.0088 0.0040

Saturn 12498-09-01 18:28 G 6286105.12 6286105.27 6286105.43 0.0284 0.0058

Neptune 12498-09-03 07:55 G 6286106.70 6286106.83 6286106.98 0.0088 0.0048

Saturn 12498-11-29 12:14 G 6286193.89 6286194.01 6286194.14 0.0284 0.0183

Neptune 12498-11-30 10:33 G 6286194.81 6286194.94 6286195.07 0.0088 0.0056

Neptune 12499-02-26 12:43 G 6286282.93 6286283.03 6286283.16 0.0088 0.0065

Mars 12499-04-25 05:16 G 6286340.60 6286340.72 6286340.84 0.1940 0.0180

Neptune 12499-05-25 15:21 G 6286371.06 6286371.14 6286371.24 0.0088 0.0073

Neptune 12499-08-21 18:00 G 6286459.19 6286459.25 6286459.32 0.0088 0.0081

Venus 12500-10-03 02:38 G 6286866.51 6286866.61 6286866.71 0.3687 0.1571

Earth 12502-03-14 22:48 G 6287394.35 6287394.45 6287394.54 0.2655 0.1522

Moon 12502-03-14 23:16 G 6287394.38 6287394.47 6287394.56 0.2660 0.1655 *

Venus 12502-04-17 04:48 G 6287427.59 6287427.70 6287427.81 0.3684 0.1982

Jupiter 12503-06-29 07:11 G 6287865.64 6287865.80 6287865.96 0.0486 0.0050

Mars 12505-11-28 15:07 G 6288749.06 6288749.13 6288749.20 0.1592 0.1386

Venus 12506-04-18 20:23 G 6288890.28 6288890.35 6288890.42 0.3687 0.2820

Mars 12507-11-04 19:11 G 6289455.23 6289455.30 6289455.37 0.1600 0.1435

Mars 12508-09-15 11:16 G 6289770.88 6289770.97 6289771.07 0.1943 0.1152

Jupiter 12509-06-02 12:14 G 6290030.98 6290031.01 6290031.05 0.0541 0.0520

Jupiter 12509-08-31 04:19 G 6290120.55 6290120.68 6290120.82 0.0543 0.0202

Moon 12511-09-06 20:38 G 6290857.26 6290857.36 6290857.45 0.2684 0.1919

Earth 12511-09-06 21:36 G 6290857.29 6290857.40 6290857.50 0.2679 0.1757 *

Saturn 12512-10-14 09:50 G 6291260.87 6291260.91 6291260.96 0.0275 0.0262

Saturn 12513-01-11 00:14 G 6291349.39 6291349.51 6291349.64 0.0275 0.0156

Saturn 12513-04-09 14:38 G 6291437.96 6291438.11 6291438.25 0.0275 0.0051

Saturn 12513-07-07 04:19 G 6291526.54 6291526.68 6291526.83 0.0275 0.0052

Saturn 12513-10-03 18:00 G 6291615.13 6291615.25 6291615.37 0.0275 0.0153

Saturn 12513-12-31 07:11 G 6291703.75 6291703.80 6291703.86 0.0276 0.0251

Jupiter 12515-04-17 08:23 G 6292175.71 6292175.85 6292176.00 0.0486 0.0196

Jupiter 12515-07-16 01:11 G 6292265.46 6292265.55 6292265.65 0.0485 0.0390

Mars 12517-03-27 00:00 G 6292885.36 6292885.50 6292885.63 0.1597 0.0728

Uranus 12519-01-21 22:04 G 6293551.36 6293551.42 6293551.50 0.0133 0.0116

Uranus 12519-04-20 01:55 G 6293639.49 6293639.58 6293639.69 0.0133 0.0098

Uranus 12519-07-17 05:45 G 6293727.63 6293727.74 6293727.86 0.0133 0.0080

Uranus 12519-10-13 09:36 G 6293815.78 6293815.90 6293816.03 0.0133 0.0062

Uranus 12520-01-09 13:26 G 6293903.92 6293904.06 6293904.20 0.0134 0.0045

Mars 12520-01-12 16:48 G 6293907.15 6293907.20 6293907.24 0.1934 0.1788

Uranus 12520-04-06 17:02 G 6293992.07 6293992.21 6293992.36 0.0134 0.0027

Uranus 12520-07-03 20:52 G 6294080.22 6294080.37 6294080.51 0.0134 0.0009

Uranus 12520-09-30 00:28 G 6294168.38 6294168.52 6294168.67 0.0134 0.0008

Uranus 12520-12-27 04:04 G 6294256.53 6294256.67 6294256.81 0.0134 0.0026

Uranus 12521-03-25 07:40 G 6294344.69 6294344.82 6294344.96 0.0134 0.0043

Jupiter 12521-06-19 06:00 G 6294430.61 6294430.75 6294430.89 0.0542 0.0021

Uranus 12521-06-21 11:16 G 6294432.85 6294432.97 6294433.10 0.0134 0.0061

Uranus 12521-09-17 14:52 G 6294521.01 6294521.12 6294521.24 0.0134 0.0078

Uranus 12521-12-14 18:28 G 6294609.18 6294609.27 6294609.37 0.0134 0.0095

Moon 12522-03-10 12:00 G 6294694.90 6294695.00 6294695.10 0.2658 0.1371

Earth 12522-03-10 12:28 G 6294694.92 6294695.02 6294695.13 0.2653 0.1307 *

Uranus 12522-03-12 22:04 G 6294697.35 6294697.42 6294697.50 0.0134 0.0112

Uranus 12522-06-09 01:26 G 6294785.54 6294785.56 6294785.61 0.0134 0.0129

Moon 12524-09-08 22:19 G 6295608.29 6295608.43 6295608.57 0.2684 0.0411

Earth 12524-09-08 22:33 G 6295608.31 6295608.44 6295608.58 0.2678 0.0481 *

Mars 12526-08-17 04:48 G 6296315.55 6296315.70 6296315.85 0.1595 0.0033

Jupiter 12527-02-03 10:19 G 6296485.81 6296485.93 6296486.04 0.0487 0.0335

Jupiter 12527-05-04 02:38 G 6296575.47 6296575.61 6296575.75 0.0485 0.0244

Saturn 12527-07-27 10:33 G 6296659.84 6296659.94 6296660.04 0.0284 0.0210

Saturn 12527-10-24 03:21 G 6296748.49 6296748.64 6296748.79 0.0284 0.0091

Saturn 12528-01-20 20:38 G 6296837.20 6296837.36 6296837.52 0.0284 0.0032

Saturn 12528-04-18 14:23 G 6296925.96 6296926.10 6296926.24 0.0284 0.0156

Saturn 12528-07-16 08:23 G 6297014.84 6297014.85 6297014.86 0.0284 0.0283

Mars 12529-06-03 23:16 G 6297337.36 6297337.47 6297337.58 0.1938 0.0868

Jupiter 12533-04-07 06:43 G 6298740.64 6298740.78 6298740.91 0.0542 0.0175

Jupiter 12533-07-05 21:50 G 6298830.39 6298830.41 6298830.44 0.0544 0.0533

Venus 12535-03-12 00:00 G 6299444.46 6299444.50 6299444.54 0.3685 0.3422

Moon 12535-03-13 08:09 G 6299445.73 6299445.84 6299445.96 0.2661 0.0340

Earth 12535-03-13 08:23 G 6299445.73 6299445.85 6299445.96 0.2654 0.0308 *

Mars 12536-01-07 09:50 G 6299745.78 6299745.91 6299746.06 0.1594 0.0647

Mars 12538-10-25 05:31 G 6300767.61 6300767.73 6300767.85 0.1941 0.0077

Jupiter 12538-11-22 12:14 G 6300795.98 6300796.01 6300796.05 0.0487 0.0470

Jupiter 12539-02-20 04:19 G 6300885.52 6300885.68 6300885.84 0.0485 0.0102

Venus 12540-09-24 18:28 G 6301468.18 6301468.27 6301468.36 0.3685 0.2006

Venus 12542-04-08 04:04 G 6302028.64 6302028.67 6302028.70 0.3685 0.3559

Saturn 12542-05-31 02:52 G 6302081.51 6302081.62 6302081.74 0.0275 0.0179

Saturn 12542-08-27 17:02 G 6302170.07 6302170.21 6302170.36 0.0275 0.0075

Saturn 12542-11-24 06:57 G 6302258.65 6302258.79 6302258.94 0.0275 0.0030

Saturn 12543-02-20 20:38 G 6302347.23 6302347.36 6302347.49 0.0275 0.0130

Saturn 12543-05-20 10:04 G 6302435.84 6302435.92 6302436.00 0.0275 0.0228

Jupiter 12545-01-24 08:23 G 6303050.74 6303050.85 6303050.96 0.0542 0.0352

Jupiter 12545-04-24 00:14 G 6303140.41 6303140.51 6303140.61 0.0544 0.0365

Mars 12545-05-29 15:36 G 6303176.06 6303176.15 6303176.23 0.1592 0.1297

Venus 12546-04-10 12:43 G 6303491.92 6303492.03 6303492.14 0.3686 0.0640

Mars 12547-05-05 19:40 G 6303882.28 6303882.32 6303882.36 0.1600 0.1530

Venus 12547-10-23 03:36 G 6304052.53 6304052.65 6304052.77 0.3685 0.1613

Earth 12548-03-15 03:50 G 6304196.57 6304196.66 6304196.74 0.2655 0.1846

Moon 12548-03-15 04:19 G 6304196.60 6304196.68 6304196.77 0.2659 0.1896 *

Mars 12548-03-16 11:31 G 6304197.88 6304197.98 6304198.08 0.1943 0.1056

Jupiter 12550-12-09 05:45 G 6305195.58 6305195.74 6305195.90 0.0486 0.0044

Venus 12551-10-25 06:43 G 6305515.67 6305515.78 6305515.90 0.3687 0.0700

Venus 12553-05-08 03:50 G 6306076.53 6306076.66 6306076.80 0.3684 0.0468

Earth 12555-03-08 21:50 G 6306746.39 6306746.41 6306746.43 0.2652 0.2589

Mars 12556-09-25 00:28 G 6307312.38 6307312.52 6307312.65 0.1597 0.0824

Jupiter 12556-11-12 10:19 G 6307360.90 6307360.93 6307360.97 0.0542 0.0525

Saturn 12556-12-13 09:50 G 6307391.84 6307391.91 6307391.98 0.0284 0.0253

Jupiter 12557-02-10 02:38 G 6307450.48 6307450.61 6307450.74 0.0543 0.0200

Saturn 12557-03-12 02:38 G 6307480.47 6307480.61 6307480.75 0.0284 0.0135

Venus 12557-05-10 00:43 G 6307539.44 6307539.53 6307539.62 0.3687 0.1962

Saturn 12557-06-08 19:40 G 6307569.16 6307569.32 6307569.48 0.0284 0.0015

Saturn 12557-09-05 13:11 G 6307657.90 6307658.05 6307658.20 0.0284 0.0109

Moon 12557-09-07 02:23 G 6307659.48 6307659.60 6307659.71 0.2684 0.1396

Earth 12557-09-07 03:21 G 6307659.52 6307659.64 6307659.76 0.2679 0.1315 *

Saturn 12557-12-03 06:57 G 6307746.71 6307746.79 6307746.89 0.0284 0.0235

Venus 12558-11-22 04:48 G 6308100.60 6308100.70 6308100.79 0.3684 0.2651

Mars 12559-07-13 16:48 G 6308334.18 6308334.20 6308334.23 0.1934 0.1881

Uranus 12560-05-01 17:16 G 6308627.20 6308627.22 6308627.24 0.0145 0.0143

Uranus 12560-07-28 23:16 G 6308715.39 6308715.47 6308715.58 0.0145 0.0118

Uranus 12560-10-25 06:00 G 6308803.62 6308803.75 6308803.88 0.0145 0.0092

Uranus 12561-01-21 12:28 G 6308891.87 6308892.02 6308892.18 0.0145 0.0066

Uranus 12561-04-19 18:57 G 6308980.13 6308980.29 6308980.46 0.0145 0.0040

Uranus 12561-07-17 01:40 G 6309068.40 6309068.57 6309068.74 0.0145 0.0013

Uranus 12561-10-13 08:09 G 6309156.67 6309156.84 6309157.02 0.0145 0.0015

Uranus 12562-01-09 14:52 G 6309244.96 6309245.12 6309245.29 0.0145 0.0041

Uranus 12562-04-07 21:36 G 6309333.25 6309333.40 6309333.56 0.0144 0.0068

Uranus 12562-07-05 04:19 G 6309421.56 6309421.68 6309421.82 0.0144 0.0095

Jupiter 12562-09-27 07:11 G 6309505.66 6309505.80 6309505.95 0.0486 0.0186

Uranus 12562-10-01 11:16 G 6309509.88 6309509.97 6309510.07 0.0144 0.0123

Venus 12562-11-23 18:14 G 6309563.21 6309563.26 6309563.32 0.3688 0.3194

Jupiter 12562-12-26 00:00 G 6309595.41 6309595.50 6309595.60 0.0485 0.0399

Mars 12566-02-15 05:16 G 6310742.57 6310742.72 6310742.87 0.1595 0.0129

Moon 12568-03-10 17:16 G 6311497.11 6311497.22 6311497.33 0.2659 0.1056

Earth 12568-03-10 17:45 G 6311497.13 6311497.24 6311497.35 0.2653 0.0967 *

Jupiter 12568-11-29 04:33 G 6311760.55 6311760.69 6311760.84 0.0542 0.0031

Mars 12568-12-02 23:16 G 6311764.37 6311764.47 6311764.58 0.1938 0.0969

Moon 12570-09-10 04:19 G 6312410.55 6312410.68 6312410.81 0.2684 0.0929

Earth 12570-09-10 04:19 G 6312410.55 6312410.68 6312410.81 0.2678 0.0932 *

Saturn 12571-10-18 03:21 G 6312813.55 6312813.64 6312813.73 0.0275 0.0217

Saturn 12572-01-14 17:31 G 6312902.10 6312902.23 6312902.38 0.0275 0.0112

Saturn 12572-04-12 07:40 G 6312990.67 6312990.82 6312990.97 0.0275 0.0009

Saturn 12572-07-09 21:21 G 6313079.26 6313079.39 6313079.53 0.0275 0.0095

Saturn 12572-10-06 10:48 G 6313167.85 6313167.95 6313168.06 0.0275 0.0194

Jupiter 12574-07-16 08:38 G 6313815.75 6313815.86 6313815.98 0.0487 0.0331

Jupiter 12574-10-14 00:57 G 6313905.40 6313905.54 6313905.68 0.0485 0.0248

Mars 12575-07-08 10:33 G 6314172.79 6314172.94 6314173.08 0.1594 0.0547

Neptune 12577-07-30 09:50 G 6314925.87 6314925.91 6314925.96 0.0089 0.0085

Neptune 12577-10-26 12:00 G 6315013.92 6315014.00 6315014.07 0.0089 0.0077

Neptune 12578-01-22 13:40 G 6315101.99 6315102.07 6315102.18 0.0089 0.0069

Neptune 12578-04-20 15:36 G 6315190.05 6315190.15 6315190.27 0.0089 0.0061

Mars 12578-04-25 05:45 G 6315194.61 6315194.74 6315194.86 0.1940 0.0077

Neptune 12578-07-17 17:31 G 6315278.12 6315278.23 6315278.37 0.0089 0.0054

Neptune 12578-10-13 19:40 G 6315366.20 6315366.32 6315366.46 0.0089 0.0045

Neptune 12579-01-09 21:36 G 6315454.27 6315454.40 6315454.54 0.0089 0.0038

Neptune 12579-04-07 23:45 G 6315542.35 6315542.49 6315542.63 0.0089 0.0030

Neptune 12579-07-05 01:26 G 6315630.42 6315630.56 6315630.71 0.0089 0.0023

Neptune 12579-10-01 03:36 G 6315718.50 6315718.65 6315718.80 0.0089 0.0014

Neptune 12579-12-28 05:31 G 6315806.58 6315806.73 6315806.88 0.0089 0.0006

Neptune 12580-03-25 07:26 G 6315894.66 6315894.81 6315894.96 0.0089 0.0001

Neptune 12580-06-21 09:21 G 6315982.74 6315982.89 6315983.04 0.0089 0.0009

Jupiter 12580-09-17 06:00 G 6316070.62 6316070.75 6316070.89 0.0542 0.0156

Neptune 12580-09-17 11:02 G 6316070.82 6316070.96 6316071.11 0.0089 0.0017 *

Neptune 12580-12-14 12:57 G 6316158.90 6316159.04 6316159.19 0.0089 0.0024

Neptune 12581-03-12 14:52 G 6316246.98 6316247.12 6316247.26 0.0089 0.0032

Earth 12581-03-13 13:26 G 6316247.94 6316248.06 6316248.17 0.2654 0.0625

Moon 12581-03-13 13:26 G 6316247.95 6316248.06 6316248.18 0.2661 0.0637 *

Neptune 12581-06-08 16:33 G 6316335.07 6316335.19 6316335.33 0.0089 0.0040

Neptune 12581-09-04 18:43 G 6316423.15 6316423.28 6316423.40 0.0089 0.0047

Neptune 12581-12-01 20:09 G 6316511.24 6316511.34 6316511.47 0.0089 0.0055

Neptune 12582-02-27 22:19 G 6316599.32 6316599.43 6316599.54 0.0089 0.0062

Neptune 12582-05-26 23:45 G 6316687.41 6316687.49 6316687.60 0.0089 0.0070

Neptune 12582-08-23 01:55 G 6316775.51 6316775.58 6316775.65 0.0089 0.0077

Neptune 12582-11-19 03:21 G 6316863.61 6316863.64 6316863.70 0.0089 0.0085

Mars 12584-11-27 15:50 G 6317603.06 6317603.16 6317603.26 0.1592 0.1211

Saturn 12586-05-02 11:31 G 6318123.97 6318123.98 6318124.01 0.0284 0.0281

Jupiter 12586-05-04 10:33 G 6318125.90 6318125.94 6318125.98 0.0487 0.0468

Saturn 12586-07-30 04:19 G 6318212.55 6318212.68 6318212.81 0.0284 0.0164

Jupiter 12586-08-02 02:23 G 6318215.45 6318215.60 6318215.76 0.0486 0.0105

Saturn 12586-10-26 21:21 G 6318301.23 6318301.39 6318301.55 0.0284 0.0044

Saturn 12587-01-23 14:38 G 6318389.96 6318390.11 6318390.27 0.0284 0.0079

Saturn 12587-04-22 08:23 G 6318478.74 6318478.85 6318478.97 0.0284 0.0205

Mars 12587-09-15 11:31 G 6318624.88 6318624.98 6318625.09 0.1943 0.0965

Venus 12591-10-16 22:19 G 6320117.36 6320117.43 6320117.49 0.3685 0.2981

Jupiter 12592-07-06 06:28 G 6320380.67 6320380.77 6320380.88 0.0542 0.0355

Jupiter 12592-10-03 22:19 G 6320470.33 6320470.43 6320470.54 0.0543 0.0362

Earth 12594-03-16 08:52 G 6320998.80 6320998.87 6320998.93 0.2655 0.2168

Moon 12594-03-16 09:36 G 6320998.84 6320998.90 6320998.95 0.2659 0.2312 *

Mars 12596-03-26 00:43 G 6321739.40 6321739.53 6321739.66 0.1597 0.0913

Venus 12597-05-01 16:48 G 6322141.09 6322141.20 6322141.30 0.3686 0.1583

Jupiter 12598-05-21 04:19 G 6322525.52 6322525.68 6322525.84 0.0486 0.0035

Venus 12598-11-13 03:36 G 6322701.58 6322701.65 6322701.72 0.3685 0.2980

Pluto 12599-01-25 08:09 G 6322774.80 6322774.84 6322774.89 0.0071 0.0066

Pluto 12599-04-23 08:52 G 6322862.79 6322862.87 6322862.95 0.0071 0.0057

Pluto 12599-07-20 09:21 G 6322950.80 6322950.89 6322951.00 0.0071 0.0049

Pluto 12599-10-16 10:04 G 6323038.82 6323038.92 6323039.04 0.0071 0.0039

Pluto 12600-01-12 10:48 G 6323126.84 6323126.95 6323127.08 0.0071 0.0030

Pluto 12600-04-10 11:45 G 6323214.86 6323214.99 6323215.12 0.0071 0.0021

Pluto 12600-07-07 12:28 G 6323302.89 6323303.02 6323303.15 0.0072 0.0011

Pluto 12600-10-03 13:11 G 6323390.91 6323391.05 6323391.18 0.0072 0.0002

Pluto 12600-12-30 13:55 G 6323478.95 6323479.08 6323479.21 0.0072 0.0007

Saturn 12601-03-07 06:00 G 6323545.68 6323545.75 6323545.83 0.0274 0.0239

Moon 12601-03-10 02:09 G 6323548.55 6323548.59 6323548.64 0.2654 0.2419

Earth 12601-03-10 03:07 G 6323548.56 6323548.63 6323548.69 0.2652 0.2246 *

Pluto 12601-03-28 14:38 G 6323566.98 6323567.11 6323567.24 0.0072 0.0017

Saturn 12601-06-03 20:23 G 6323634.22 6323634.35 6323634.48 0.0275 0.0134

Pluto 12601-06-24 15:07 G 6323655.02 6323655.13 6323655.27 0.0072 0.0027

Saturn 12601-08-31 10:33 G 6323722.79 6323722.94 6323723.09 0.0275 0.0030

Pluto 12601-09-20 16:04 G 6323743.06 6323743.17 6323743.29 0.0072 0.0036

Saturn 12601-11-28 00:14 G 6323811.37 6323811.51 6323811.65 0.0275 0.0072

Pluto 12601-12-17 16:48 G 6323831.10 6323831.20 6323831.31 0.0072 0.0046

Saturn 12602-02-24 13:40 G 6323899.96 6323900.07 6323900.19 0.0275 0.0172

Pluto 12602-03-15 17:16 G 6323919.15 6323919.22 6323919.32 0.0072 0.0057

Saturn 12602-05-24 03:07 G 6323988.60 6323988.63 6323988.65 0.0275 0.0269

Pluto 12602-06-11 18:28 G 6324007.22 6324007.27 6324007.32 0.0072 0.0066

Uranus 12602-11-16 01:26 G 6324164.54 6324164.56 6324164.60 0.0133 0.0130

Venus 12602-11-16 11:02 G 6324164.84 6324164.96 6324165.07 0.3686 0.0275

Uranus 12603-02-12 05:16 G 6324252.65 6324252.72 6324252.81 0.0133 0.0112

Uranus 12603-05-11 09:07 G 6324340.79 6324340.88 6324340.99 0.0133 0.0094

Uranus 12603-08-07 12:57 G 6324428.93 6324429.04 6324429.17 0.0133 0.0076

Moon 12603-09-09 08:23 G 6324461.72 6324461.85 6324461.97 0.2684 0.1039

Earth 12603-09-09 09:07 G 6324461.75 6324461.88 6324462.01 0.2679 0.0863 *

Uranus 12603-11-03 16:48 G 6324517.07 6324517.20 6324517.34 0.0133 0.0058

Uranus 12604-01-30 20:38 G 6324605.22 6324605.36 6324605.50 0.0133 0.0040

Jupiter 12604-04-25 08:09 G 6324690.82 6324690.84 6324690.86 0.0541 0.0534

Uranus 12604-04-28 00:14 G 6324693.37 6324693.51 6324693.66 0.0134 0.0023

Venus 12604-05-30 03:21 G 6324725.51 6324725.64 6324725.77 0.3685 0.1002

Jupiter 12604-07-24 00:28 G 6324780.39 6324780.52 6324780.65 0.0543 0.0191

Uranus 12604-07-25 04:04 G 6324781.53 6324781.67 6324781.82 0.0134 0.0004

Uranus 12604-10-21 07:40 G 6324869.68 6324869.82 6324869.97 0.0134 0.0014

Uranus 12605-01-17 11:16 G 6324957.84 6324957.97 6324958.12 0.0134 0.0031

Uranus 12605-04-15 15:07 G 6325045.99 6325046.13 6325046.26 0.0134 0.0048

Uranus 12605-07-12 18:28 G 6325134.16 6325134.27 6325134.40 0.0134 0.0066

Mars 12605-08-17 05:45 G 6325169.59 6325169.74 6325169.89 0.1596 0.0223

Uranus 12605-10-08 22:04 G 6325222.32 6325222.42 6325222.54 0.0134 0.0083

Uranus 12606-01-05 01:40 G 6325310.48 6325310.57 6325310.67 0.0134 0.0100

Uranus 12606-04-03 05:16 G 6325398.66 6325398.72 6325398.79 0.0134 0.0117

Uranus 12606-06-30 08:52 G 6325486.87 6325486.87 6325486.88 0.0134 0.0134

Venus 12608-06-01 05:02 G 6326188.60 6326188.71 6326188.81 0.3687 0.1091

Mars 12608-06-03 23:31 G 6326191.38 6326191.48 6326191.58 0.1937 0.1070

Venus 12609-12-14 03:50 G 6326749.53 6326749.66 6326749.79 0.3684 0.1109

Jupiter 12610-03-10 05:45 G 6326835.60 6326835.74 6326835.89 0.0486 0.0179

Jupiter 12610-06-07 22:33 G 6326925.36 6326925.44 6326925.53 0.0485 0.0405

Venus 12613-12-15 22:48 G 6328212.36 6328212.45 6328212.53 0.3687 0.2347

Moon 12614-03-12 22:33 G 6328299.32 6328299.44 6328299.55 0.2660 0.0631

Earth 12614-03-12 22:48 G 6328299.34 6328299.45 6328299.57 0.2653 0.0625 *

Mars 12615-01-07 11:02 G 6328599.81 6328599.96 6328600.10 0.1594 0.0457

Venus 12615-06-30 04:48 G 6328773.64 6328773.70 6328773.75 0.3683 0.3325

Saturn 12615-12-18 03:21 G 6328944.54 6328944.64 6328944.75 0.0284 0.0208

Saturn 12616-03-15 20:23 G 6329033.20 6329033.35 6329033.50 0.0284 0.0089

Jupiter 12616-05-12 02:52 G 6329090.47 6329090.62 6329090.76 0.0543 0.0028

Saturn 12616-06-12 13:26 G 6329121.90 6329122.06 6329122.22 0.0284 0.0033

Saturn 12616-09-09 06:57 G 6329210.66 6329210.79 6329210.93 0.0284 0.0158

Earth 12616-09-11 10:19 G 6329212.81 6329212.93 6329213.05 0.2677 0.1390

Moon 12616-09-11 10:19 G 6329212.82 6329212.93 6329213.05 0.2684 0.1456 *

Saturn 12616-12-07 01:11 G 6329299.54 6329299.55 6329299.56 0.0284 0.0283

Mars 12617-10-25 05:45 G 6329621.62 6329621.74 6329621.86 0.1940 0.0111

Venus 12619-07-01 16:19 G 6330236.16 6330236.18 6330236.20 0.3688 0.3570

Jupiter 12621-12-27 07:40 G 6331145.70 6331145.82 6331145.94 0.0486 0.0318

Jupiter 12622-03-27 00:00 G 6331235.36 6331235.50 6331235.63 0.0485 0.0260

Mars 12624-05-29 16:19 G 6332030.08 6332030.18 6332030.29 0.1592 0.1116

Earth 12627-03-15 18:28 G 6333050.16 6333050.27 6333050.38 0.2654 0.0953

Moon 12627-03-15 18:43 G 6333050.17 6333050.28 6333050.39 0.2660 0.0983 *

Mars 12627-03-17 11:45 G 6333051.88 6333051.99 6333052.10 0.1943 0.0862

Jupiter 12628-02-29 04:48 G 6333400.56 6333400.70 6333400.84 0.0542 0.0147

Saturn 12630-10-21 20:38 G 6334366.24 6334366.36 6334366.48 0.0275 0.0173

Saturn 12631-01-18 10:48 G 6334454.81 6334454.95 6334455.10 0.0275 0.0069

Saturn 12631-04-17 00:43 G 6334543.38 6334543.53 6334543.68 0.0275 0.0034

Saturn 12631-07-14 14:23 G 6334631.97 6334632.10 6334632.23 0.0275 0.0135

Saturn 12631-10-11 03:36 G 6334720.58 6334720.65 6334720.73 0.0275 0.0234

Jupiter 12633-10-15 09:07 G 6335455.83 6335455.88 6335455.93 0.0487 0.0461

Jupiter 12634-01-13 00:57 G 6335545.38 6335545.54 6335545.70 0.0486 0.0111

Mars 12635-09-26 01:26 G 6336166.44 6336166.56 6336166.68 0.1597 0.1017

Mars 12636-08-06 17:31 G 6336482.20 6336482.23 6336482.26 0.1945 0.1871

Earth 12636-09-06 13:55 G 6336513.06 6336513.08 6336513.11 0.2680 0.2608

Jupiter 12639-12-18 06:14 G 6337710.64 6337710.76 6337710.87 0.0542 0.0331

Jupiter 12640-03-16 21:50 G 6337800.32 6337800.41 6337800.51 0.0543 0.0384

Earth 12640-03-17 13:55 G 6337801.04 6337801.08 6337801.11 0.2655 0.2491

Moon 12640-03-17 14:38 G 6337801.08 6337801.11 6337801.13 0.2659 0.2568 *

Uranus 12644-05-23 00:28 G 6339328.47 6339328.52 6339328.57 0.0145 0.0137

Uranus 12644-08-19 06:43 G 6339416.68 6339416.78 6339416.89 0.0145 0.0112

Uranus 12644-11-15 13:11 G 6339504.92 6339505.05 6339505.19 0.0145 0.0086

Uranus 12645-02-11 19:40 G 6339593.17 6339593.32 6339593.48 0.0145 0.0059

Mars 12645-02-15 06:14 G 6339596.60 6339596.76 6339596.91 0.1595 0.0315

Saturn 12645-05-06 04:33 G 6339676.61 6339676.69 6339676.78 0.0284 0.0240

Uranus 12645-05-11 02:09 G 6339681.43 6339681.59 6339681.76 0.0145 0.0033

Saturn 12645-08-02 21:21 G 6339765.25 6339765.39 6339765.54 0.0284 0.0122

Uranus 12645-08-07 08:52 G 6339769.70 6339769.87 6339770.04 0.0145 0.0007

Saturn 12645-10-30 14:38 G 6339853.95 6339854.11 6339854.27 0.0284 0.0005

Jupiter 12645-11-01 02:38 G 6339855.45 6339855.61 6339855.77 0.0486 0.0031

Uranus 12645-11-03 15:21 G 6339857.97 6339858.14 6339858.32 0.0145 0.0021

Saturn 12646-01-27 08:09 G 6339942.69 6339942.84 6339942.98 0.0284 0.0123

Uranus 12646-01-30 22:04 G 6339946.26 6339946.42 6339946.59 0.0144 0.0047

Saturn 12646-04-26 02:09 G 6340031.51 6340031.59 6340031.66 0.0284 0.0249

Uranus 12646-04-29 04:33 G 6340034.56 6340034.69 6340034.85 0.0144 0.0075

Uranus 12646-07-26 11:31 G 6340122.86 6340122.98 6340123.11 0.0144 0.0101

Uranus 12646-10-22 18:28 G 6340211.20 6340211.27 6340211.35 0.0144 0.0128

Moon 12647-03-11 07:26 G 6340350.73 6340350.81 6340350.89 0.2656 0.1933

Earth 12647-03-11 08:09 G 6340350.76 6340350.84 6340350.92 0.2652 0.1903 *

Mars 12647-12-03 23:31 G 6340618.39 6340618.48 6340618.58 0.1938 0.1149

Venus 12648-05-23 20:23 G 6340790.27 6340790.35 6340790.44 0.3685 0.2547

Moon 12649-09-09 14:09 G 6341263.96 6341264.09 6341264.23 0.2684 0.0432

Earth 12649-09-09 14:52 G 6341263.98 6341264.12 6341264.26 0.2678 0.0421 *

Jupiter 12651-10-06 06:28 G 6342020.75 6342020.77 6342020.79 0.0541 0.0533

Jupiter 12652-01-03 22:48 G 6342110.32 6342110.45 6342110.58 0.0543 0.0192

Venus 12653-12-07 14:52 G 6342814.01 6342814.12 6342814.23 0.3686 0.1164

Mars 12654-07-08 11:16 G 6343026.82 6343026.97 6343027.12 0.1594 0.0368

Venus 12655-06-21 03:07 G 6343374.53 6343374.63 6343374.73 0.3685 0.2402

Mars 12657-04-25 06:00 G 6344048.63 6344048.75 6344048.87 0.1941 0.0216

Jupiter 12657-08-20 04:33 G 6344165.54 6344165.69 6344165.84 0.0486 0.0168

Jupiter 12657-11-17 21:21 G 6344255.31 6344255.39 6344255.47 0.0485 0.0417

Neptune 12659-04-26 14:09 G 6344780.08 6344780.09 6344780.15 0.0088 0.0086

Venus 12659-06-23 09:07 G 6344837.77 6344837.88 6344837.99 0.3686 0.0197

Neptune 12659-07-23 16:33 G 6344868.13 6344868.19 6344868.28 0.0088 0.0078

Neptune 12659-10-19 18:57 G 6344956.21 6344956.29 6344956.40 0.0088 0.0070

Neptune 12660-01-15 21:21 G 6345044.29 6345044.39 6345044.52 0.0088 0.0062

Saturn 12660-03-09 23:16 G 6345098.37 6345098.47 6345098.58 0.0274 0.0196

Moon 12660-03-13 03:36 G 6345101.54 6345101.65 6345101.77 0.2660 0.0389

Earth 12660-03-13 03:50 G 6345101.54 6345101.66 6345101.78 0.2653 0.0303 *

Neptune 12660-04-12 23:45 G 6345132.37 6345132.49 6345132.63 0.0088 0.0054

Saturn 12660-06-06 13:26 G 6345186.92 6345187.06 6345187.21 0.0275 0.0091

Neptune 12660-07-10 02:09 G 6345220.46 6345220.59 6345220.73 0.0088 0.0046

Saturn 12660-09-03 03:21 G 6345275.50 6345275.64 6345275.79 0.0275 0.0015

Neptune 12660-10-06 04:33 G 6345308.55 6345308.69 6345308.84 0.0088 0.0038

Saturn 12660-11-30 17:02 G 6345364.08 6345364.21 6345364.35 0.0275 0.0113

Neptune 12661-01-02 06:57 G 6345396.64 6345396.79 6345396.95 0.0088 0.0030

Venus 12661-01-04 03:07 G 6345398.50 6345398.63 6345398.76 0.3684 0.0382

Saturn 12661-02-27 06:28 G 6345452.68 6345452.77 6345452.86 0.0275 0.0212

Neptune 12661-03-31 09:21 G 6345484.73 6345484.89 6345485.05 0.0088 0.0022

Neptune 12661-06-27 11:45 G 6345572.83 6345572.99 6345573.15 0.0088 0.0014

Neptune 12661-09-23 14:09 G 6345660.92 6345661.09 6345661.25 0.0088 0.0006

Neptune 12661-12-20 16:33 G 6345749.02 6345749.19 6345749.36 0.0088 0.0002

Neptune 12662-03-18 18:57 G 6345837.12 6345837.29 6345837.46 0.0088 0.0010

Neptune 12662-06-14 21:21 G 6345925.23 6345925.39 6345925.55 0.0088 0.0018

Neptune 12662-09-10 23:31 G 6346013.33 6346013.48 6346013.65 0.0088 0.0027

Earth 12662-09-12 16:04 G 6346015.07 6346015.17 6346015.27 0.2677 0.1854

Moon 12662-09-12 16:19 G 6346015.08 6346015.18 6346015.28 0.2684 0.1841 *

Neptune 12662-12-08 02:09 G 6346101.44 6346101.59 6346101.75 0.0088 0.0035

Neptune 12663-03-06 04:33 G 6346189.55 6346189.69 6346189.84 0.0088 0.0043

Neptune 12663-06-02 07:11 G 6346277.66 6346277.80 6346277.94 0.0088 0.0051

Neptune 12663-08-29 09:21 G 6346365.78 6346365.89 6346366.03 0.0088 0.0060

Jupiter 12663-10-23 00:43 G 6346420.39 6346420.53 6346420.67 0.0543 0.0018

Neptune 12663-11-25 12:00 G 6346453.90 6346454.00 6346454.11 0.0088 0.0068

Mars 12663-11-28 16:48 G 6346457.08 6346457.20 6346457.32 0.1592 0.1027

Neptune 12664-02-21 14:38 G 6346542.03 6346542.11 6346542.19 0.0088 0.0076

Neptune 12664-05-19 16:48 G 6346630.17 6346630.20 6346630.26 0.0088 0.0085

Venus 12665-01-06 02:52 G 6346861.52 6346861.62 6346861.73 0.3687 0.1476

Venus 12666-07-21 03:36 G 6347422.54 6347422.65 6347422.77 0.3684 0.1754

Mars 12666-09-15 12:00 G 6347478.89 6347479.00 6347479.11 0.1943 0.0763

Jupiter 12669-06-08 06:14 G 6348475.64 6348475.76 6348475.89 0.0486 0.0309

Jupiter 12669-09-05 22:33 G 6348565.31 6348565.44 6348565.58 0.0485 0.0269

Venus 12670-07-22 20:38 G 6348885.29 6348885.36 6348885.44 0.3687 0.2726

Earth 12673-03-15 23:31 G 6349852.38 6349852.48 6349852.58 0.2654 0.1281

Moon 12673-03-16 00:00 G 6349852.40 6349852.50 6349852.60 0.2660 0.1393 *

Saturn 12674-09-23 04:04 G 6350408.66 6350408.67 6350408.69 0.0284 0.0282

Saturn 12674-12-20 20:38 G 6350497.24 6350497.36 6350497.49 0.0284 0.0165

Saturn 12675-03-19 13:40 G 6350585.91 6350586.07 6350586.23 0.0284 0.0045

Mars 12675-03-27 01:40 G 6350593.47 6350593.57 6350593.69 0.1598 0.1113

Saturn 12675-06-16 06:57 G 6350674.64 6350674.79 6350674.95 0.0284 0.0077

Jupiter 12675-08-11 02:52 G 6350730.49 6350730.62 6350730.76 0.0543 0.0151

Saturn 12675-09-13 00:43 G 6350763.42 6350763.53 6350763.65 0.0284 0.0202

Mars 12676-02-05 17:45 G 6350909.19 6350909.24 6350909.28 0.1945 0.1772

Jupiter 12681-03-27 08:09 G 6352785.79 6352785.84 6352785.90 0.0487 0.0447

Jupiter 12681-06-25 00:00 G 6352875.35 6352875.50 6352875.66 0.0485 0.0126

Moon 12682-09-07 18:28 G 6353315.20 6353315.27 6353315.35 0.2682 0.2247

Earth 12682-09-07 19:40 G 6353315.25 6353315.32 6353315.40 0.2680 0.2176 *

Mars 12684-08-16 06:43 G 6354023.63 6354023.78 6354023.93 0.1596 0.0415

Pluto 12684-09-16 06:00 G 6354054.66 6354054.75 6354054.88 0.0073 0.0060

Pluto 12684-12-13 08:38 G 6354142.72 6354142.86 6354143.01 0.0073 0.0046

Pluto 12685-03-11 10:48 G 6354230.79 6354230.95 6354231.13 0.0073 0.0032

Pluto 12685-06-07 13:11 G 6354318.87 6354319.05 6354319.24 0.0073 0.0017

Pluto 12685-09-03 15:36 G 6354406.96 6354407.15 6354407.34 0.0073 0.0003

Pluto 12685-11-30 17:45 G 6354495.05 6354495.24 6354495.43 0.0073 0.0011

Pluto 12686-02-26 19:55 G 6354583.16 6354583.33 6354583.51 0.0073 0.0025

Pluto 12686-05-25 21:50 G 6354671.27 6354671.41 6354671.59 0.0072 0.0039

Pluto 12686-08-22 00:28 G 6354759.39 6354759.52 6354759.65 0.0072 0.0052

Pluto 12686-11-18 02:09 G 6354847.53 6354847.59 6354847.69 0.0072 0.0066

Uranus 12686-12-06 08:23 G 6354865.81 6354865.85 6354865.91 0.0133 0.0126

Uranus 12687-03-04 12:14 G 6354953.94 6354954.01 6354954.11 0.0133 0.0108

Jupiter 12687-05-30 04:48 G 6355040.59 6355040.70 6355040.82 0.0542 0.0323

Uranus 12687-05-31 16:04 G 6355042.07 6355042.17 6355042.29 0.0133 0.0090

Mars 12687-06-03 23:45 G 6355045.40 6355045.49 6355045.58 0.1938 0.1256

Uranus 12687-08-27 19:55 G 6355130.22 6355130.33 6355130.46 0.0133 0.0072

Jupiter 12687-08-27 20:38 G 6355130.27 6355130.36 6355130.46 0.0543 0.0394 *

Uranus 12687-11-23 23:45 G 6355218.37 6355218.49 6355218.63 0.0134 0.0054

Uranus 12688-02-20 03:36 G 6355306.52 6355306.65 6355306.79 0.0134 0.0036

Uranus 12688-05-18 07:26 G 6355394.67 6355394.81 6355394.95 0.0134 0.0018

Uranus 12688-08-14 11:02 G 6355482.82 6355482.96 6355483.11 0.0134 0.0005

Uranus 12688-11-10 14:52 G 6355570.98 6355571.12 6355571.26 0.0134 0.0017

Uranus 12689-02-06 18:28 G 6355659.13 6355659.27 6355659.41 0.0134 0.0035

Uranus 12689-05-05 22:04 G 6355747.29 6355747.42 6355747.55 0.0134 0.0052

Saturn 12689-07-27 23:02 G 6355830.39 6355830.46 6355830.54 0.0275 0.0238

Uranus 12689-08-02 01:40 G 6355835.45 6355835.57 6355835.70 0.0134 0.0069

Saturn 12689-10-24 13:26 G 6355918.93 6355919.06 6355919.19 0.0275 0.0132

Uranus 12689-10-29 05:16 G 6355923.62 6355923.72 6355923.83 0.0134 0.0087

Saturn 12690-01-21 03:36 G 6356007.50 6356007.65 6356007.80 0.0275 0.0028

Uranus 12690-01-25 08:38 G 6356011.79 6356011.86 6356011.96 0.0134 0.0104

Saturn 12690-04-19 17:16 G 6356096.08 6356096.22 6356096.37 0.0275 0.0074

Uranus 12690-04-23 12:14 G 6356099.96 6356100.01 6356100.08 0.0134 0.0121

Saturn 12690-07-17 06:57 G 6356184.67 6356184.79 6356184.90 0.0275 0.0173

Saturn 12690-10-13 20:09 G 6356273.32 6356273.34 6356273.36 0.0275 0.0271

Moon 12693-03-11 12:43 G 6357152.94 6357153.03 6357153.12 0.2658 0.1717

Earth 12693-03-11 13:11 G 6357152.96 6357153.05 6357153.15 0.2653 0.1559 *

Jupiter 12693-04-13 01:26 G 6357185.40 6357185.56 6357185.72 0.0486 0.0025

Mars 12694-01-06 11:45 G 6357453.84 6357453.99 6357454.15 0.1594 0.0274

Moon 12695-09-10 20:23 G 6358066.21 6358066.35 6358066.48 0.2685 0.0107

Earth 12695-09-10 20:38 G 6358066.22 6358066.36 6358066.50 0.2678 0.0037 *

Mars 12696-10-24 06:00 G 6358475.63 6358475.75 6358475.87 0.1940 0.0304

Jupiter 12699-03-18 06:14 G 6359350.71 6359350.76 6359350.81 0.0541 0.0506

Venus 12699-06-15 00:14 G 6359439.48 6359439.51 6359439.54 0.3685 0.3534

Jupiter 12699-06-15 22:33 G 6359440.31 6359440.44 6359440.57 0.0543 0.0218

Mars 12703-05-30 17:02 G 6360884.09 6360884.21 6360884.34 0.1592 0.0942

Saturn 12704-05-09 21:07 G 6361229.28 6361229.38 6361229.50 0.0284 0.0201

Saturn 12704-08-06 14:09 G 6361317.94 6361318.09 6361318.24 0.0284 0.0082

Saturn	12704-11-03 07:26 G	6361406.65	6361406.81	6361406.97	0.0284	0.0040
Venus	12704-12-29 18:43 G	6361463.19	6361463.28	6361463.37	0.3686	0.2121
Saturn	12705-01-31 01:11 G	6361495.41	6361495.55	6361495.68	0.0284	0.0164
Jupiter	12705-01-31 03:07 G	6361495.48	6361495.63	6361495.78	0.0486	0.0162 *
Jupiter	12705-04-30 19:55 G	6361585.25	6361585.33	6361585.41	0.0485	0.0423
Moon	12706-03-15 08:52 G	6361903.75	6361903.87	6361903.99	0.2660	0.0095
Earth	12706-03-15 09:07 G	6361903.76	6361903.88	6361904.00	0.2654	0.0099 *
Mars	12706-03-17 12:00 G	6361905.89	6361906.00	6361906.12	0.1943	0.0674
Earth	12708-09-13 22:04 G	6362817.35	6362817.42	6362817.48	0.2677	0.2317
Moon	12708-09-13 22:19 G	6362817.37	6362817.43	6362817.48	0.2683	0.2436 *
Venus	12710-07-15 12:57 G	6363486.93	6363487.04	6363487.15	0.3686	0.0754
Jupiter	12711-04-04 23:16 G	6363750.33	6363750.47	6363750.61	0.0543	0.0024
Venus	12712-01-27 02:52 G	6364047.50	6364047.62	6364047.73	0.3685	0.1802
Mars	12712-10-19 22:48 G	6364314.44	6364314.45	6364314.46	0.1591	0.1585
Mars	12714-09-26 02:09 G	6365020.49	6365020.59	6365020.69	0.1598	0.1206
Mars	12715-08-07 18:00 G	6365336.19	6365336.25	6365336.31	0.1945	0.1660
Venus	12716-01-29 07:11 G	6365510.69	6365510.80	6365510.91	0.3686	0.0585
Jupiter	12716-11-19 05:16 G	6365805.59	6365805.72	6365805.84	0.0487	0.0298
Jupiter	12717-02-16 21:36 G	6365895.27	6365895.40	6365895.53	0.0485	0.0281
Venus	12717-08-12 02:52 G	6366071.49	6366071.62	6366071.76	0.3684	0.0271
Saturn	12718-12-16 01:40 G	6366562.53	6366562.57	6366562.62	0.0275	0.0260
Saturn	12719-03-14 16:19 G	6366651.05	6366651.18	6366651.30	0.0275	0.0154
Earth	12719-03-18 04:33 G	6366654.60	6366654.69	6366654.78	0.2655	0.1607
Moon	12719-03-18 05:02 G	6366654.62	6366654.71	6366654.80	0.2660	0.1632 *
Saturn	12719-06-11 06:14 G	6366739.62	6366739.76	6366739.91	0.0275	0.0051
Saturn	12719-09-07 20:09 G	6366828.20	6366828.34	6366828.49	0.0275	0.0052
Saturn	12719-12-05 09:36 G	6366916.79	6366916.90	6366917.03	0.0275	0.0153
Saturn	12720-03-02 23:02 G	6367005.41	6367005.46	6367005.52	0.0275	0.0250
Venus	12721-08-14 00:57 G	6367534.45	6367534.54	6367534.64	0.3687	0.1866
Jupiter	12723-01-22 00:57 G	6368060.40	6368060.54	6368060.68	0.0542	0.0155

Venus 12723-02-26 03:36 G 6368095.55 6368095.65 6368095.75 0.3683 0.2425

Mars 12724-02-16 07:11 G 6368450.65 6368450.80 6368450.95 0.1596 0.0508

Mars 12726-12-04 00:00 G 6369472.41 6369472.50 6369472.58 0.1937 0.1348

Venus 12727-02-27 18:43 G 6369558.22 6369558.28 6369558.34 0.3688 0.3106

Uranus 12728-06-13 07:11 G 6370029.75 6370029.80 6370029.89 0.0145 0.0132

Jupiter 12728-09-07 06:57 G 6370115.73 6370115.79 6370115.86 0.0487 0.0437

Moon 12728-09-09 00:28 G 6370117.43 6370117.52 6370117.61 0.2683 0.1940

Earth 12728-09-09 01:26 G 6370117.46 6370117.56 6370117.67 0.2679 0.1739 *

Uranus 12728-09-09 13:55 G 6370117.97 6370118.08 6370118.20 0.0145 0.0106

Jupiter 12728-12-05 22:48 G 6370205.30 6370205.45 6370205.61 0.0485 0.0136

Uranus 12728-12-06 20:23 G 6370206.21 6370206.35 6370206.49 0.0145 0.0080

Uranus 12729-03-05 02:52 G 6370294.46 6370294.62 6370294.78 0.0145 0.0054

Uranus 12729-06-01 09:21 G 6370382.72 6370382.89 6370383.06 0.0145 0.0027

Uranus 12729-08-28 15:50 G 6370470.99 6370471.16 6370471.34 0.0145 0.0004

Uranus 12729-11-24 22:33 G 6370559.27 6370559.44 6370559.61 0.0145 0.0026

Uranus 12730-02-21 05:16 G 6370647.56 6370647.72 6370647.88 0.0144 0.0053

Uranus 12730-05-20 12:00 G 6370735.85 6370736.00 6370736.14 0.0144 0.0080

Uranus 12730-08-16 18:43 G 6370824.17 6370824.28 6370824.40 0.0144 0.0107

Uranus 12730-11-13 01:11 G 6370912.50 6370912.55 6370912.63 0.0144 0.0135

Mars 12733-07-08 12:14 G 6371880.86 6371881.01 6371881.17 0.1594 0.0181

Saturn 12733-09-26 20:52 G 6371961.29 6371961.37 6371961.45 0.0284 0.0243

Saturn 12733-12-24 13:26 G 6372049.92 6372050.06 6372050.21 0.0284 0.0125

Saturn 12734-03-23 06:43 G 6372138.62 6372138.78 6372138.94 0.0284 0.0009

Saturn 12734-06-20 00:00 G 6372227.36 6372227.50 6372227.65 0.0284 0.0119

Saturn 12734-09-16 18:00 G 6372316.17 6372316.25 6372316.33 0.0284 0.0244

Jupiter 12734-11-10 03:07 G 6372370.51 6372370.63 6372370.74 0.0542 0.0326

Jupiter 12735-02-07 18:57 G 6372460.19 6372460.29 6372460.38 0.0544 0.0392

Mars 12736-04-25 06:14 G 6372902.64 6372902.76 6372902.88 0.1940 0.0401

Moon 12739-03-13 17:45 G 6373955.14 6373955.24 6373955.35 0.2658 0.1246

Earth 12739-03-13 18:28 G 6373955.16 6373955.27 6373955.37 0.2653 0.1219 *

Jupiter 12740-09-24 00:28 G 6374515.36 6374515.52 6374515.68 0.0486 0.0010

Moon 12741-09-12 02:09 G 6374868.46 6374868.59 6374868.72 0.2685 0.0536

Earth 12741-09-12 02:23 G 6374868.46 6374868.60 6374868.74 0.2678 0.0478 *

Neptune 12742-01-30 07:11 G 6375008.80 6375008.80 6375008.82 0.0089 0.0089

Neptune 12742-04-28 09:07 G 6375096.83 6375096.88 6375096.96 0.0089 0.0082

Neptune 12742-07-25 11:16 G 6375184.89 6375184.97 6375185.06 0.0089 0.0073

Neptune 12742-10-21 13:11 G 6375272.96 6375273.05 6375273.16 0.0089 0.0066

Mars 12742-11-28 17:45 G 6375311.11 6375311.24 6375311.37 0.1592 0.0845

Neptune 12743-01-17 15:21 G 6375361.03 6375361.14 6375361.26 0.0089 0.0058

Neptune 12743-04-15 17:16 G 6375449.10 6375449.22 6375449.35 0.0089 0.0050

Neptune 12743-07-12 19:11 G 6375537.17 6375537.30 6375537.44 0.0089 0.0042

Neptune 12743-10-08 21:07 G 6375625.25 6375625.38 6375625.53 0.0089 0.0034

Neptune 12744-01-04 23:02 G 6375713.32 6375713.46 6375713.61 0.0089 0.0027

Neptune 12744-04-02 01:11 G 6375801.40 6375801.55 6375801.70 0.0089 0.0018

Neptune 12744-06-29 03:07 G 6375889.48 6375889.63 6375889.78 0.0089 0.0011

Neptune 12744-09-25 05:02 G 6375977.56 6375977.71 6375977.86 0.0089 0.0003

Neptune 12744-12-22 06:57 G 6376065.64 6376065.79 6376065.94 0.0089 0.0005

Neptune 12745-03-20 08:52 G 6376153.72 6376153.87 6376154.02 0.0089 0.0012

Neptune 12745-06-16 10:33 G 6376241.80 6376241.94 6376242.09 0.0089 0.0020

Neptune 12745-09-12 12:28 G 6376329.88 6376330.02 6376330.17 0.0089 0.0028

Mars 12745-09-15 12:28 G 6376332.90 6376333.02 6376333.13 0.1943 0.0570

Neptune 12745-12-09 14:23 G 6376417.97 6376418.10 6376418.24 0.0089 0.0035

Neptune 12746-03-07 16:19 G 6376506.05 6376506.18 6376506.31 0.0089 0.0043

Neptune 12746-06-03 18:00 G 6376594.14 6376594.25 6376594.38 0.0089 0.0050

Jupiter 12746-08-29 04:48 G 6376680.65 6376680.70 6376680.76 0.0541 0.0499

Neptune 12746-08-30 19:55 G 6376682.22 6376682.33 6376682.45 0.0089 0.0058

Jupiter 12746-11-26 21:21 G 6376770.26 6376770.39 6376770.52 0.0543 0.0227

Neptune 12746-11-26 21:36 G 6376770.31 6376770.40 6376770.51 0.0089 0.0065 *

Neptune 12747-02-22 23:31 G 6376858.40 6376858.48 6376858.57 0.0089 0.0073

Neptune 12747-05-22 01:11 G 6376946.50 6376946.55 6376946.63 0.0089 0.0080

Neptune 12747-08-18 03:07 G 6377034.61 6377034.63 6377034.67 0.0089 0.0088

Saturn 12748-07-31 15:50 G 6377383.06 6377383.16 6377383.27 0.0274 0.0197

Saturn 12748-10-28 06:14 G 6377471.62 6377471.76 6377471.90 0.0275 0.0092

Saturn 12749-01-24 20:09 G 6377560.19 6377560.34 6377560.49 0.0275 0.0011

Saturn 12749-04-23 09:50 G 6377648.78 6377648.91 6377649.05 0.0275 0.0112

Saturn 12749-07-20 23:16 G 6377737.38 6377737.47 6377737.56 0.0275 0.0211

Earth 12752-03-15 14:09 G 6378705.97 6378706.09 6378706.21 0.2654 0.0382

Moon 12752-03-15 14:09 G 6378705.98 6378706.09 6378706.21 0.2660 0.0338 *

Mars 12752-04-19 23:16 G 6378741.42 6378741.47 6378741.52 0.1591 0.1497

Jupiter 12752-07-13 01:55 G 6378825.43 6378825.58 6378825.73 0.0486 0.0153

Jupiter 12752-10-10 18:28 G 6378915.20 6378915.27 6378915.35 0.0485 0.0432

Mars 12754-03-27 02:52 G 6379447.53 6379447.62 6379447.71 0.1597 0.1308

Mars 12755-02-05 18:00 G 6379763.18 6379763.25 6379763.32 0.1945 0.1579

Venus 12756-01-20 22:19 G 6380112.37 6380112.43 6380112.49 0.3685 0.3101

Jupiter 12758-09-14 23:02 G 6381080.32 6381080.46 6381080.60 0.0543 0.0050

Venus 12761-08-05 17:02 G 6382136.11 6382136.21 6382136.31 0.3686 0.1698

Saturn 12763-02-13 21:07 G 6382693.36 6382693.38 6382693.40 0.0284 0.0280

Venus 12763-02-17 02:52 G 6382696.55 6382696.62 6382696.68 0.3685 0.3157

Saturn 12763-05-13 13:40 G 6382781.94 6382782.07 6382782.20 0.0284 0.0164

Saturn 12763-08-10 06:43 G 6382870.62 6382870.78 6382870.93 0.0284 0.0044

Mars 12763-08-17 07:40 G 6382877.67 6382877.82 6382877.96 0.1595 0.0601

Saturn 12763-11-07 00:00 G 6382959.35 6382959.50 6382959.66 0.0284 0.0079

Saturn 12764-02-03 17:45 G 6383048.13 6383048.24 6383048.35 0.0284 0.0204

Jupiter 12764-05-01 03:50 G 6383135.53 6383135.66 6383135.79 0.0487 0.0290

Jupiter 12764-07-29 20:09 G 6383225.21 6383225.34 6383225.47 0.0485 0.0289

Earth 12765-03-18 09:36 G 6383456.82 6383456.90 6383456.98 0.2655 0.1936

Moon 12765-03-18 10:04 G 6383456.85 6383456.92 6383457.00 0.2660 0.2079 *

Mars 12766-06-04 00:00 G 6383899.42 6383899.50 6383899.58 0.1938 0.1436

Venus 12767-02-19 11:16 G 6384159.86 6384159.97 6384160.08 0.3686 0.0337

Venus 12768-09-02 02:38 G 6384720.48 6384720.61 6384720.73 0.3684 0.1188

Jupiter 12770-07-03 23:31 G 6385390.34 6385390.48 6385390.62 0.0542 0.0149

Uranus 12770-12-27 15:21 G 6385567.10 6385567.14 6385567.22 0.0133 0.0122

Uranus 12771-03-25 19:26 G 6385655.23 6385655.31 6385655.41 0.0133 0.0103

Uranus 12771-06-21 23:16 G 6385743.37 6385743.47 6385743.59 0.0133 0.0085

Uranus 12771-09-18 03:07 G 6385831.51 6385831.63 6385831.76 0.0134 0.0067

Uranus 12771-12-15 06:57 G 6385919.66 6385919.79 6385919.93 0.0134 0.0049

Moon 12772-03-11 02:52 G 6386006.60 6386006.62 6386006.63 0.2654 0.2626

Earth 12772-03-11 03:36 G 6386006.62 6386006.65 6386006.69 0.2652 0.2505 *

Uranus 12772-03-12 10:48 G 6386007.81 6386007.95 6386008.09 0.0134 0.0031

Uranus 12772-06-08 14:23 G 6386095.96 6386096.10 6386096.25 0.0134 0.0015

Venus 12772-09-04 05:16 G 6386183.61 6386183.72 6386183.83 0.3687 0.0984

Uranus 12772-09-04 18:14 G 6386184.12 6386184.26 6386184.40 0.0134 0.0004

Uranus 12772-12-01 21:50 G 6386272.27 6386272.41 6386272.56 0.0134 0.0022

Mars 12773-01-06 12:43 G 6386307.88 6386308.03 6386308.18 0.1594 0.0088

Uranus 12773-02-28 01:40 G 6386360.43 6386360.57 6386360.70 0.0134 0.0039

Uranus 12773-05-27 05:16 G 6386448.59 6386448.72 6386448.85 0.0134 0.0056

Uranus 12773-08-23 08:38 G 6386536.75 6386536.86 6386536.99 0.0134 0.0074

Uranus 12773-11-19 12:14 G 6386624.92 6386625.01 6386625.12 0.0134 0.0091

Uranus 12774-02-15 15:50 G 6386713.09 6386713.16 6386713.25 0.0134 0.0108

Venus 12774-03-19 02:52 G 6386744.49 6386744.62 6386744.75 0.3684 0.0893

Uranus 12774-05-14 19:26 G 6386801.27 6386801.31 6386801.37 0.0134 0.0125

Moon 12774-09-10 06:28 G 6386919.65 6386919.77 6386919.88 0.2684 0.1377

Earth 12774-09-10 07:11 G 6386919.68 6386919.80 6386919.92 0.2679 0.1300 *

Mars 12775-10-25 06:28 G 6387329.65 6387329.77 6387329.88 0.1941 0.0504

Jupiter 12776-02-18 06:00 G 6387445.68 6387445.75 6387445.82 0.0487 0.0425

Jupiter 12776-05-17 21:50 G 6387535.26 6387535.41 6387535.57 0.0486 0.0149

Saturn 12777-12-18 18:28 G 6388115.18 6388115.27 6388115.36 0.0275 0.0219

Saturn 12778-03-17 08:52 G 6388203.73 6388203.87 6388204.01 0.0275 0.0114

Venus 12778-03-20 23:02 G 6388207.38 6388207.46 6388207.55 0.3687 0.2255

Saturn 12778-06-13 23:02 G 6388292.31 6388292.46 6388292.61 0.0275 0.0012

Saturn 12778-09-10 12:43 G 6388380.89 6388381.03 6388381.17 0.0275 0.0091

Saturn 12778-12-08 02:09 G 6388469.49 6388469.59 6388469.70 0.0275 0.0190

Venus 12779-10-03 03:50 G 6388768.59 6388768.66 6388768.73 0.3683 0.3106

Jupiter 12782-04-22 01:11 G 6389700.43 6389700.55 6389700.66 0.0542 0.0329

Mars 12782-05-29 18:14 G 6389738.12 6389738.26 6389738.39 0.1592 0.0755

Jupiter 12782-07-20 17:02 G 6389790.11 6389790.21 6389790.31 0.0543 0.0389

Venus 12783-10-04 16:48 G 6390231.16 6390231.20 6390231.23 0.3688 0.3485

Moon 12785-03-13 23:02 G 6390757.35 6390757.46 6390757.57 0.2658 0.0992

Earth 12785-03-13 23:31 G 6390757.37 6390757.48 6390757.60 0.2653 0.0873 *

Mars 12785-03-16 12:28 G 6390759.90 6390760.02 6390760.14 0.1943 0.0472

Moon 12787-09-13 08:09 G 6391670.71 6391670.84 6391670.97 0.2685 0.0837

Earth 12787-09-13 08:09 G 6391670.71 6391670.84 6391670.97 0.2678 0.0936 *

Jupiter 12788-03-05 23:16 G 6391845.31 6391845.47 6391845.63 0.0486 0.0012

Mars 12791-10-19 23:45 G 6393168.42 6393168.49 6393168.56 0.1591 0.1405

Saturn 12792-09-29 13:26 G 6393513.95 6393514.06 6393514.17 0.0284 0.0204

Saturn 12792-12-27 06:14 G 6393602.61 6393602.76 6393602.91 0.0284 0.0086

Saturn 12793-03-25 23:16 G 6393691.32 6393691.47 6393691.63 0.0284 0.0036

Saturn 12793-06-22 16:48 G 6393780.07 6393780.20 6393780.34 0.0284 0.0160

Mars 12793-09-25 03:21 G 6393874.57 6393874.64 6393874.71 0.1598 0.1405

Jupiter 12794-02-08 03:07 G 6394010.58 6394010.63 6394010.68 0.0542 0.0502

Jupiter 12794-05-08 19:26 G 6394100.18 6394100.31 6394100.44 0.0543 0.0224

Mars 12794-08-06 18:14 G 6394190.18 6394190.26 6394190.34 0.1945 0.1470

Earth 12798-03-16 19:11 G 6395508.18 6395508.30 6395508.41 0.2654 0.0712

Moon 12798-03-16 19:26 G 6395508.20 6395508.31 6395508.42 0.2661 0.0807 *

Jupiter 12799-12-24 01:11 G 6396155.40 6396155.55 6396155.70 0.0486 0.0136

Jupiter 12800-03-22 17:45 G 6396245.18 6396245.24 6396245.30 0.0485 0.0448

Mars 12803-02-15 08:09 G 6397304.70 6397304.84 6397304.98 0.1596 0.0699

Mars 12805-12-03 00:14 G 6398326.44 6398326.51 6398326.58 0.1937 0.1536

Jupiter 12806-02-24 21:50 G 6398410.27 6398410.41 6398410.55 0.0543 0.0059

Saturn 12807-05-07 18:00 G 6398847.22 6398847.25 6398847.30 0.0274 0.0263

Saturn 12807-08-04 08:38 G 6398935.74 6398935.86 6398935.98 0.0274 0.0157

Saturn 12807-10-31 22:48 G 6399024.30 6399024.45 6399024.60 0.0275 0.0053

Saturn 12808-01-28 12:43 G 6399112.88 6399113.03 6399113.18 0.0275 0.0049

Saturn 12808-04-26 02:09 G 6399201.47 6399201.59 6399201.72 0.0275 0.0150

Saturn 12808-07-23 15:36 G 6399290.09 6399290.15 6399290.21 0.0275 0.0247

Earth 12811-03-19 14:38 G 6400259.05 6400259.11 6400259.17 0.2655 0.2263

Moon 12811-03-19 15:21 G 6400259.08 6400259.14 6400259.20 0.2659 0.2292 *

Jupiter 12811-10-12 02:38 G 6400465.48 6400465.61 6400465.74 0.0487 0.0280

Jupiter 12812-01-09 18:57 G 6400555.16 6400555.29 6400555.42 0.0485 0.0299

Uranus 12812-07-03 14:38 G 6400731.03 6400731.11 6400731.19 0.0145 0.0126

Mars 12812-07-07 13:11 G 6400734.90 6400735.05 6400735.21 0.1594 0.0023

Venus 12812-08-26 20:38 G 6400785.28 6400785.36 6400785.44 0.3685 0.2662

Uranus 12812-09-29 21:07 G 6400819.26 6400819.38 6400819.50 0.0145 0.0100

Uranus 12812-12-27 03:21 G 6400907.50 6400907.64 6400907.79 0.0145 0.0074

Uranus 12813-03-25 09:50 G 6400995.75 6400995.91 6400996.07 0.0145 0.0048

Uranus 12813-06-21 16:19 G 6401084.02 6401084.18 6401084.35 0.0145 0.0022

Uranus 12813-09-17 23:02 G 6401172.29 6401172.46 6401172.63 0.0145 0.0005

Uranus 12813-12-15 05:31 G 6401260.57 6401260.73 6401260.90 0.0144 0.0031

Uranus 12814-03-13 12:00 G 6401348.85 6401349.00 6401349.17 0.0144 0.0059

Uranus 12814-06-09 18:43 G 6401437.15 6401437.28 6401437.43 0.0144 0.0086

Uranus 12814-09-06 01:26 G 6401525.46 6401525.56 6401525.68 0.0144 0.0113

Uranus 12814-12-03 08:23 G 6401613.82 6401613.85 6401613.90 0.0144 0.0140

Mars 12815-04-25 06:28 G 6401756.66 6401756.77 6401756.89 0.1940 0.0593

Jupiter 12817-12-13 23:31 G 6402720.34 6402720.48 6402720.62 0.0542 0.0121

Moon 12818-03-12 07:55 G 6402808.77 6402808.83 6402808.89 0.2655 0.2259

Earth 12818-03-12 08:52 G 6402808.80 6402808.87 6402808.93 0.2652 0.2161 *

Venus 12818-03-12 15:07 G 6402809.03 6402809.13 6402809.24 0.3686 0.1268

Venus 12819-09-24 02:23 G 6403369.51 6403369.60 6403369.69 0.3685 0.2570

Moon 12820-09-10 12:14 G 6403721.88 6403722.01 6403722.14 0.2685 0.0957

Earth 12820-09-10 12:57 G 6403721.91 6403722.04 6403722.17 0.2679 0.0862 *

Mars	12821-11-27 18:28 G	6404165.13	6404165.27	6404165.41	0.1592	0.0667
Saturn	12822-02-16 13:11 G	6404245.98	6404246.05	6404246.13	0.0284	0.0245
Saturn	12822-05-16 06:00 G	6404334.61	6404334.75	6404334.89	0.0284	0.0127
Saturn	12822-08-12 23:02 G	6404423.30	6404423.46	6404423.62	0.0284	0.0007
Saturn	12822-11-09 16:19 G	6404512.04	6404512.18	6404512.33	0.0284	0.0117
Saturn	12823-02-06 10:19 G	6404600.85	6404600.93	6404601.02	0.0284	0.0242
Jupiter	12823-07-31 04:33 G	6404775.62	6404775.69	6404775.77	0.0487	0.0417
Venus	12823-09-26 09:21 G	6404832.78	6404832.89	6404833.00	0.3686	0.0088
Jupiter	12823-10-28 20:38 G	6404865.20	6404865.36	6404865.51	0.0486	0.0157
Neptune	12824-01-22 13:40 G	6404951.03	6404951.07	6404951.14	0.0088	0.0082
Neptune	12824-04-19 16:04 G	6405039.09	6405039.17	6405039.27	0.0088	0.0074
Neptune	12824-07-16 18:28 G	6405127.17	6405127.27	6405127.38	0.0088	0.0066
Mars	12824-09-14 12:28 G	6405186.90	6405187.02	6405187.14	0.1943	0.0383
Neptune	12824-10-12 20:38 G	6405215.25	6405215.36	6405215.49	0.0088	0.0059
Neptune	12825-01-08 23:02 G	6405303.33	6405303.46	6405303.60	0.0088	0.0050
Neptune	12825-04-07 01:26 G	6405391.42	6405391.56	6405391.71	0.0088	0.0042
Venus	12825-04-09 02:23 G	6405393.47	6405393.60	6405393.73	0.3684	0.0570
Neptune	12825-07-04 03:50 G	6405479.51	6405479.66	6405479.81	0.0088	0.0034
Neptune	12825-09-30 06:14 G	6405567.60	6405567.76	6405567.92	0.0088	0.0026
Neptune	12825-12-27 08:38 G	6405655.70	6405655.86	6405656.02	0.0088	0.0018
Neptune	12826-03-25 11:02 G	6405743.79	6405743.96	6405744.12	0.0088	0.0010
Neptune	12826-06-21 13:26 G	6405831.89	6405832.06	6405832.22	0.0088	0.0002
Neptune	12826-09-17 15:50 G	6405919.99	6405920.16	6405920.32	0.0088	0.0006
Neptune	12826-12-14 18:14 G	6406008.09	6406008.26	6406008.42	0.0088	0.0014
Neptune	12827-03-12 20:38 G	6406096.20	6406096.36	6406096.52	0.0088	0.0022
Neptune	12827-06-08 22:48 G	6406184.31	6406184.45	6406184.62	0.0088	0.0031
Neptune	12827-09-05 01:26 G	6406272.41	6406272.56	6406272.71	0.0088	0.0039
Neptune	12827-12-02 03:50 G	6406360.52	6406360.66	6406360.81	0.0088	0.0047
Neptune	12828-02-28 06:28 G	6406448.64	6406448.77	6406448.90	0.0088	0.0055
Neptune	12828-05-26 08:38 G	6406536.76	6406536.86	6406536.99	0.0088	0.0064

Neptune 12828-08-22 11:16 G 6406624.88 6406624.97 6406625.07 0.0088 0.0072

Neptune 12828-11-18 13:55 G 6406713.02 6406713.08 6406713.15 0.0088 0.0080

Venus 12829-04-11 03:21 G 6406856.54 6406856.64 6406856.74 0.3687 0.1383

Jupiter 12829-10-01 23:45 G 6407030.38 6407030.49 6407030.61 0.0541 0.0321

Jupiter 12829-12-30 15:36 G 6407120.06 6407120.15 6407120.25 0.0543 0.0397

Venus 12830-10-24 02:52 G 6407417.49 6407417.62 6407417.74 0.3684 0.1552

Moon 12831-03-15 04:19 G 6407559.56 6407559.68 6407559.80 0.2659 0.0567

Earth 12831-03-15 04:33 G 6407559.58 6407559.69 6407559.81 0.2653 0.0543 *

Mars 12831-04-20 00:00 G 6407595.42 6407595.50 6407595.59 0.1591 0.1320

Mars 12833-03-26 03:36 G 6408301.60 6408301.65 6408301.70 0.1598 0.1497

Moon 12833-09-13 13:55 G 6408472.97 6408473.08 6408473.20 0.2684 0.1452

Earth 12833-09-13 13:55 G 6408472.97 6408473.08 6408473.20 0.2678 0.1388 *

Mars 12834-02-04 18:28 G 6408617.18 6408617.27 6408617.36 0.1945 0.1369

Venus 12834-10-25 21:07 G 6408880.31 6408880.38 6408880.46 0.3688 0.2643

Jupiter 12835-08-16 22:19 G 6409175.27 6409175.43 6409175.59 0.0486 0.0018

Saturn 12836-12-21 11:02 G 6409667.86 6409667.96 6409668.08 0.0275 0.0180

Saturn 12837-03-20 01:26 G 6409756.42 6409756.56 6409756.71 0.0275 0.0075

Saturn 12837-06-16 15:21 G 6409845.00 6409845.14 6409845.29 0.0275 0.0029

Saturn 12837-09-13 05:02 G 6409933.59 6409933.71 6409933.84 0.0275 0.0129

Saturn 12837-12-10 18:28 G 6410022.19 6410022.27 6410022.35 0.0275 0.0227

Jupiter 12841-07-21 01:11 G 6411340.50 6411340.55 6411340.60 0.0541 0.0503

Jupiter 12841-10-18 17:31 G 6411430.11 6411430.23 6411430.36 0.0543 0.0223

Mars 12842-08-16 08:38 G 6411731.73 6411731.86 6411731.99 0.1596 0.0796

Earth 12844-03-17 00:14 G 6412310.40 6412310.51 6412310.62 0.2654 0.1048

Moon 12844-03-17 00:28 G 6412310.42 6412310.52 6412310.63 0.2661 0.1037 *

Pluto 12845-03-20 22:48 G 6412679.40 6412679.45 6412679.52 0.0071 0.0063

Mars 12845-06-03 00:28 G 6412753.46 6412753.52 6412753.58 0.1937 0.1637

Pluto 12845-06-16 23:31 G 6412767.40 6412767.48 6412767.58 0.0071 0.0054

Pluto 12845-09-13 00:14 G 6412855.42 6412855.51 6412855.62 0.0071 0.0045

Pluto 12845-12-10 00:57 G 6412943.43 6412943.54 6412943.66 0.0071 0.0036

Pluto 12846-03-08 01:55 G 6413031.45 6413031.58 6413031.70 0.0071 0.0027

Pluto 12846-06-04 02:38 G 6413119.48 6413119.61 6413119.74 0.0071 0.0017

Pluto 12846-08-31 03:21 G 6413207.51 6413207.64 6413207.77 0.0072 0.0008

Pluto 12846-11-27 04:04 G 6413295.53 6413295.67 6413295.80 0.0072 0.0001

Pluto 12847-02-23 04:48 G 6413383.57 6413383.70 6413383.83 0.0072 0.0011

Pluto 12847-05-22 05:16 G 6413471.60 6413471.72 6413471.86 0.0072 0.0021

Jupiter 12847-06-05 00:00 G 6413485.35 6413485.50 6413485.65 0.0486 0.0126

Pluto 12847-08-18 06:14 G 6413559.64 6413559.76 6413559.88 0.0072 0.0030

Jupiter 12847-09-02 16:33 G 6413575.15 6413575.19 6413575.24 0.0485 0.0459

Pluto 12847-11-14 06:43 G 6413647.68 6413647.78 6413647.91 0.0072 0.0040

Pluto 12848-02-10 07:26 G 6413735.73 6413735.81 6413735.92 0.0072 0.0050

Pluto 12848-05-08 08:23 G 6413823.78 6413823.85 6413823.93 0.0072 0.0060

Pluto 12848-08-04 09:07 G 6413911.85 6413911.88 6413911.92 0.0072 0.0070

Saturn 12851-07-06 13:26 G 6414978.05 6414978.06 6414978.09 0.0284 0.0281

Saturn 12851-10-03 06:00 G 6415066.63 6415066.75 6415066.88 0.0284 0.0165

Saturn 12851-12-30 23:02 G 6415155.30 6415155.46 6415155.62 0.0284 0.0046

Mars 12852-01-06 13:40 G 6415161.92 6415162.07 6415162.22 0.1594 0.0104

Saturn 12852-03-28 16:19 G 6415244.02 6415244.18 6415244.33 0.0284 0.0076

Saturn 12852-06-25 09:50 G 6415332.80 6415332.91 6415333.03 0.0284 0.0201

Jupiter 12853-08-06 19:55 G 6415740.19 6415740.33 6415740.47 0.0543 0.0055

Earth 12853-09-08 18:00 G 6415773.22 6415773.25 6415773.28 0.2680 0.2589

Mars 12854-10-24 06:28 G 6416183.66 6416183.77 6416183.89 0.1940 0.0692

Uranus 12855-01-16 22:33 G 6416268.38 6416268.44 6416268.51 0.0133 0.0118

Uranus 12855-04-15 02:23 G 6416356.51 6416356.60 6416356.70 0.0133 0.0100

Uranus 12855-07-12 06:14 G 6416444.65 6416444.76 6416444.88 0.0134 0.0082

Uranus 12855-10-08 10:04 G 6416532.80 6416532.92 6416533.05 0.0134 0.0064

Uranus 12856-01-04 13:55 G 6416620.94 6416621.08 6416621.22 0.0134 0.0046

Uranus 12856-04-01 17:45 G 6416709.10 6416709.24 6416709.38 0.0134 0.0028

Uranus 12856-06-28 21:21 G 6416797.25 6416797.39 6416797.54 0.0134 0.0011

Uranus 12856-09-25 01:11 G 6416885.40 6416885.55 6416885.69 0.0134 0.0007

Uranus 12856-12-22 04:48 G 6416973.56 6416973.70 6416973.84 0.0134 0.0025

Earth 12857-03-19 19:55 G 6417061.30 6417061.33 6417061.35 0.2655 0.2593

Uranus 12857-03-20 08:23 G 6417061.72 6417061.85 6417061.99 0.0134 0.0043

Uranus 12857-06-16 12:00 G 6417149.88 6417150.00 6417150.13 0.0134 0.0060

Uranus 12857-09-12 15:36 G 6417238.04 6417238.15 6417238.27 0.0134 0.0077

Uranus 12857-12-09 19:11 G 6417326.21 6417326.30 6417326.41 0.0134 0.0094

Uranus 12858-03-07 22:48 G 6417414.38 6417414.45 6417414.53 0.0134 0.0111

Uranus 12858-06-04 02:23 G 6417502.57 6417502.60 6417502.64 0.0134 0.0128

Jupiter 12859-03-24 01:55 G 6417795.44 6417795.58 6417795.71 0.0486 0.0265

Jupiter 12859-06-21 18:00 G 6417885.13 6417885.25 6417885.38 0.0485 0.0314

Mars 12861-05-28 18:57 G 6418592.15 6418592.29 6418592.43 0.1592 0.0570

Venus 12863-09-18 00:28 G 6419434.50 6419434.52 6419434.53 0.3685 0.3654

Moon 12864-03-12 13:11 G 6419610.97 6419611.05 6419611.13 0.2655 0.1963

Earth 12864-03-12 13:55 G 6419610.99 6419611.08 6419611.17 0.2652 0.1816 *

Mars 12864-03-15 12:43 G 6419613.91 6419614.03 6419614.15 0.1943 0.0281

Jupiter 12865-05-25 22:04 G 6420050.28 6420050.42 6420050.56 0.0542 0.0114

Saturn 12866-05-10 10:48 G 6420399.87 6420399.95 6420400.04 0.0274 0.0223

Saturn 12866-08-07 01:11 G 6420488.42 6420488.55 6420488.69 0.0274 0.0118

Moon 12866-09-11 18:14 G 6420524.12 6420524.26 6420524.39 0.2685 0.0520

Earth 12866-09-11 18:43 G 6420524.14 6420524.28 6420524.42 0.2679 0.0414 *

Saturn 12866-11-03 15:21 G 6420576.99 6420577.14 6420577.29 0.0275 0.0014

Saturn 12867-01-31 05:02 G 6420665.57 6420665.71 6420665.85 0.0275 0.0088

Saturn 12867-04-29 18:43 G 6420754.17 6420754.28 6420754.39 0.0275 0.0187

Venus 12869-04-02 18:57 G 6421458.20 6421458.29 6421458.38 0.3686 0.2225

Mars 12870-10-19 00:28 G 6422022.43 6422022.52 6422022.62 0.1591 0.1229

Jupiter 12871-01-10 03:21 G 6422105.56 6422105.64 6422105.73 0.0487 0.0407

Jupiter 12871-04-09 19:11 G 6422195.15 6422195.30 6422195.45 0.0485 0.0166

Mars 12873-08-05 18:28 G 6423044.18 6423044.27 6423044.36 0.1945 0.1280

Venus 12874-10-17 13:26 G 6423481.95 6423482.06 6423482.17 0.3686 0.0845

Venus 12876-04-30 02:09 G 6424042.48 6424042.59 6424042.70 0.3685 0.1969

Jupiter	12877-03-13 23:45 G	6424360.37	6424360.49	6424360.61	0.0542	0.0293
Moon	12877-03-15 09:36 G	6424361.78	6424361.90	6424362.02	0.2660	0.0217
Earth	12877-03-15 09:50 G	6424361.79	6424361.91	6424362.03	0.2653	0.0226 *
Jupiter	12877-06-11 15:36 G	6424450.06	6424450.15	6424450.23	0.0543	0.0423
Earth	12879-09-14 19:55 G	6425275.23	6425275.33	6425275.43	0.2678	0.1844
Moon	12879-09-14 20:09 G	6425275.24	6425275.34	6425275.44	0.2684	0.1869 *
Venus	12880-05-02 07:26 G	6425505.70	6425505.81	6425505.93	0.3687	0.0510
Saturn	12881-02-19 05:31 G	6425798.63	6425798.73	6425798.84	0.0284	0.0208
Saturn	12881-05-18 22:19 G	6425887.28	6425887.43	6425887.58	0.0284	0.0090
Saturn	12881-08-15 15:36 G	6425975.99	6425976.15	6425976.31	0.0284	0.0032
Saturn	12881-11-12 09:07 G	6426064.75	6426064.88	6426065.02	0.0284	0.0156
Venus	12881-11-14 02:09 G	6426066.46	6426066.59	6426066.72	0.3684	0.0057
Saturn	12882-02-09 03:07 G	6426153.62	6426153.63	6426153.65	0.0284	0.0282
Mars	12882-02-14 09:07 G	6426158.75	6426158.88	6426159.00	0.1596	0.0889
Jupiter	12883-01-26 21:07 G	6426505.22	6426505.38	6426505.54	0.0486	0.0028
Mars	12884-12-02 00:14 G	6427180.46	6427180.51	6427180.57	0.1937	0.1718
Venus	12885-11-16 01:26 G	6427529.46	6427529.56	6427529.66	0.3687	0.1776
Venus	12887-05-31 02:38 G	6428090.51	6428090.61	6428090.72	0.3684	0.2208
Jupiter	12888-12-31 00:00 G	6428670.44	6428670.50	6428670.56	0.0541	0.0494
Jupiter	12889-03-30 16:19 G	6428760.05	6428760.18	6428760.31	0.0543	0.0230
Earth	12890-03-18 05:16 G	6429112.62	6429112.72	6429112.82	0.2654	0.1375
Moon	12890-03-18 05:45 G	6429112.64	6429112.74	6429112.84	0.2660	0.1461 *
Venus	12891-06-01 19:11 G	6429553.24	6429553.30	6429553.36	0.3688	0.3025
Mars	12891-07-07 14:09 G	6429588.93	6429589.09	6429589.24	0.1594	0.0197
Mars	12894-04-24 06:57 G	6430610.68	6430610.79	6430610.90	0.1941	0.0796
Jupiter	12894-11-14 22:48 G	6430815.30	6430815.45	6430815.61	0.0486	0.0115
Jupiter	12895-02-12 15:36 G	6430905.12	6430905.15	6430905.19	0.0485	0.0472
Saturn	12895-09-27 13:11 G	6431131.99	6431132.05	6431132.13	0.0275	0.0247
Saturn	12895-12-25 03:50 G	6431220.53	6431220.66	6431220.79	0.0275	0.0140
Saturn	12896-03-22 18:00 G	6431309.11	6431309.25	6431309.40	0.0275	0.0036

Saturn 12896-06-19 07:55 G 6431397.69 6431397.83 6431397.98 0.0275 0.0067

Uranus 12896-07-23 21:21 G 6431432.31 6431432.39 6431432.50 0.0145 0.0121

Saturn 12896-09-15 21:36 G 6431486.28 6431486.40 6431486.52 0.0275 0.0167

Uranus 12896-10-20 03:50 G 6431520.54 6431520.66 6431520.80 0.0145 0.0095

Saturn 12896-12-13 10:48 G 6431574.92 6431574.95 6431574.99 0.0275 0.0265

Uranus 12897-01-16 10:19 G 6431608.79 6431608.93 6431609.09 0.0145 0.0069

Uranus 12897-04-14 16:48 G 6431697.04 6431697.20 6431697.37 0.0145 0.0043

Uranus 12897-07-11 23:31 G 6431785.31 6431785.48 6431785.65 0.0145 0.0017

Uranus 12897-10-08 06:00 G 6431873.58 6431873.75 6431873.92 0.0145 0.0010

Uranus 12898-01-04 12:28 G 6431961.86 6431962.02 6431962.19 0.0144 0.0037

Uranus 12898-04-02 19:11 G 6432050.15 6432050.30 6432050.46 0.0144 0.0063

Uranus 12898-06-30 01:40 G 6432138.45 6432138.57 6432138.72 0.0144 0.0091

Uranus 12898-09-26 08:38 G 6432226.76 6432226.86 6432226.96 0.0144 0.0117

Moon 12899-09-09 22:48 G 6432575.39 6432575.45 6432575.51 0.2684 0.2364

Earth 12899-09-09 23:45 G 6432575.41 6432575.49 6432575.57 0.2680 0.2152 *

Mars 12900-11-27 19:26 G 6433019.16 6433019.31 6433019.46 0.1592 0.0479

Jupiter 12901-01-17 18:00 G 6433070.11 6433070.25 6433070.39 0.0542 0.0054

Mars 12903-09-15 12:57 G 6434040.92 6434041.04 6434041.16 0.1943 0.0179

Jupiter 12906-09-04 00:28 G 6435125.39 6435125.52 6435125.66 0.0487 0.0256

Neptune 12906-10-28 06:43 G 6435179.76 6435179.78 6435179.84 0.0089 0.0086

Jupiter 12906-12-02 16:48 G 6435215.08 6435215.20 6435215.32 0.0485 0.0324

Neptune 12907-01-24 08:52 G 6435267.81 6435267.87 6435267.96 0.0089 0.0077

Neptune 12907-04-22 10:48 G 6435355.87 6435355.95 6435356.06 0.0089 0.0070

Neptune 12907-07-19 12:57 G 6435443.94 6435444.04 6435444.16 0.0089 0.0061

Neptune 12907-10-15 14:52 G 6435532.01 6435532.12 6435532.25 0.0089 0.0054

Neptune 12908-01-11 17:02 G 6435620.08 6435620.21 6435620.34 0.0089 0.0046

Neptune 12908-04-08 19:11 G 6435708.16 6435708.30 6435708.43 0.0089 0.0038

Neptune 12908-07-05 20:52 G 6435796.23 6435796.37 6435796.52 0.0089 0.0030

Neptune 12908-10-01 22:48 G 6435884.31 6435884.45 6435884.60 0.0089 0.0023

Neptune 12908-12-29 00:57 G 6435972.39 6435972.54 6435972.69 0.0089 0.0014

Neptune 12909-03-27 02:52 G 6436060.47 6436060.62 6436060.77 0.0089 0.0007

Neptune 12909-06-23 04:48 G 6436148.55 6436148.70 6436148.85 0.0089 0.0001

Neptune 12909-09-19 06:43 G 6436236.63 6436236.78 6436236.93 0.0089 0.0009

Neptune 12909-12-16 08:23 G 6436324.71 6436324.85 6436325.00 0.0089 0.0017

Neptune 12910-03-14 10:19 G 6436412.79 6436412.93 6436413.08 0.0089 0.0024

Moon 12910-03-14 18:14 G 6436413.17 6436413.26 6436413.36 0.2656 0.1533

Earth 12910-03-14 18:57 G 6436413.19 6436413.29 6436413.39 0.2652 0.1478 *

Mars 12910-04-20 00:57 G 6436449.44 6436449.54 6436449.65 0.1591 0.1137

Neptune 12910-06-10 12:14 G 6436500.87 6436501.01 6436501.15 0.0089 0.0032

Saturn 12910-07-10 06:28 G 6436530.69 6436530.77 6436530.85 0.0284 0.0241

Neptune 12910-09-06 13:55 G 6436588.96 6436589.08 6436589.22 0.0089 0.0040

Saturn 12910-10-06 23:02 G 6436619.32 6436619.46 6436619.60 0.0284 0.0124

Neptune 12910-12-03 16:04 G 6436677.04 6436677.17 6436677.30 0.0089 0.0047

Saturn 12911-01-03 16:04 G 6436708.01 6436708.17 6436708.33 0.0284 0.0008

Neptune 12911-03-01 17:45 G 6436765.13 6436765.24 6436765.36 0.0089 0.0054

Saturn 12911-04-02 09:21 G 6436796.74 6436796.89 6436797.04 0.0284 0.0118

Neptune 12911-05-28 19:40 G 6436853.22 6436853.32 6436853.43 0.0089 0.0062

Saturn 12911-06-30 03:07 G 6436885.55 6436885.63 6436885.71 0.0284 0.0243

Neptune 12911-08-24 21:21 G 6436941.31 6436941.39 6436941.49 0.0089 0.0069

Neptune 12911-11-20 23:16 G 6437029.40 6437029.47 6437029.55 0.0089 0.0077

Neptune 12912-02-17 00:43 G 6437117.50 6437117.53 6437117.60 0.0089 0.0085

Moon 12912-09-13 00:00 G 6437326.36 6437326.50 6437326.64 0.2685 0.0011

Earth 12912-09-13 00:28 G 6437326.38 6437326.52 6437326.66 0.2679 0.0061 *

Jupiter 12912-11-05 20:09 G 6437380.20 6437380.34 6437380.48 0.0542 0.0120

Mars 12913-02-04 18:43 G 6437471.18 6437471.28 6437471.38 0.1945 0.1177

Jupiter 12918-06-23 02:23 G 6439435.52 6439435.60 6439435.70 0.0487 0.0393

Jupiter 12918-09-20 18:28 G 6439525.12 6439525.27 6439525.42 0.0485 0.0181

Venus 12920-04-24 22:33 G 6440107.39 6440107.44 6440107.50 0.3685 0.3212

Mars 12921-08-16 09:36 G 6440585.78 6440585.90 6440586.02 0.1596 0.0990

Moon 12923-03-17 14:38 G 6441164.00 6441164.11 6441164.23 0.2660 0.0137

Earth 12923-03-17 14:52 G 6441164.00 6441164.12 6441164.24 0.2653 0.0143 *

Mars 12924-06-03 00:28 G 6441607.49 6441607.52 6441607.56 0.1937 0.1825

Jupiter 12924-08-24 22:04 G 6441690.30 6441690.42 6441690.54 0.0542 0.0290

Jupiter 12924-11-22 14:09 G 6441780.00 6441780.09 6441780.17 0.0544 0.0428

Saturn 12925-05-14 03:50 G 6441952.55 6441952.66 6441952.77 0.0275 0.0182

Saturn 12925-08-10 18:00 G 6442041.11 6442041.25 6442041.40 0.0275 0.0077

Earth 12925-09-16 01:40 G 6442077.50 6442077.57 6442077.64 0.2678 0.2305

Moon 12925-09-16 02:09 G 6442077.53 6442077.59 6442077.66 0.2684 0.2389 *

Saturn 12925-11-07 08:09 G 6442129.69 6442129.84 6442129.99 0.0275 0.0026

Venus 12925-11-08 17:16 G 6442131.12 6442131.22 6442131.32 0.3686 0.1796

Saturn 12926-02-03 21:50 G 6442218.28 6442218.41 6442218.54 0.0275 0.0127

Saturn 12926-05-03 11:16 G 6442306.89 6442306.97 6442307.05 0.0275 0.0225

Venus 12927-05-23 02:09 G 6442691.54 6442691.59 6442691.64 0.3685 0.3324

Jupiter 12930-07-09 19:40 G 6443835.16 6443835.32 6443835.48 0.0486 0.0033

Pluto 12930-08-14 17:31 G 6443871.18 6443871.23 6443871.31 0.0073 0.0069

Pluto 12930-11-10 19:40 G 6443959.21 6443959.32 6443959.47 0.0073 0.0055

Mars 12931-01-06 14:38 G 6444015.96 6444016.11 6444016.26 0.1594 0.0293

Pluto 12931-02-06 22:04 G 6444047.28 6444047.42 6444047.60 0.0073 0.0040

Pluto 12931-05-06 00:43 G 6444135.35 6444135.53 6444135.71 0.0073 0.0025

Venus 12931-05-25 11:31 G 6444154.87 6444154.98 6444155.09 0.3686 0.0435

Pluto 12931-08-02 03:07 G 6444223.44 6444223.63 6444223.81 0.0073 0.0011

Pluto 12931-10-29 05:16 G 6444311.53 6444311.72 6444311.91 0.0073 0.0003

Pluto 12932-01-25 07:26 G 6444399.63 6444399.81 6444400.00 0.0073 0.0017

Pluto 12932-04-22 09:21 G 6444487.73 6444487.89 6444488.08 0.0073 0.0031

Pluto 12932-07-19 11:31 G 6444575.85 6444575.98 6444576.15 0.0072 0.0045

Pluto 12932-10-15 13:55 G 6444663.98 6444664.08 6444664.20 0.0072 0.0058

Venus 12932-12-06 01:55 G 6444715.45 6444715.58 6444715.70 0.3684 0.1371

Pluto 12933-01-11 15:50 G 6444752.15 6444752.16 6444752.21 0.0072 0.0072

Mars 12933-10-24 06:57 G 6445037.68 6445037.79 6445037.89 0.1940 0.0880

Earth 12936-03-19 10:33 G 6445914.85 6445914.94 6445915.03 0.2654 0.1707

Moon	12936-03-19 11:02 G	6445914.87	6445914.96	6445915.05	0.2659	0.1774 *
Jupiter	12936-06-12 23:45 G	6446000.42	6446000.49	6446000.56	0.0541	0.0469
Jupiter	12936-09-10 16:04 G	6446090.05	6446090.17	6446090.30	0.0543	0.0255
Venus	12936-12-08 05:31 G	6446178.63	6446178.73	6446178.84	0.3687	0.0895
Venus	12938-06-22 01:55 G	6446739.45	6446739.58	6446739.71	0.3684	0.0683
Uranus	12938-11-11 01:40 G	6446881.55	6446881.57	6446881.60	0.0133	0.0132
Uranus	12939-02-07 05:31 G	6446969.66	6446969.73	6446969.81	0.0133	0.0114
Uranus	12939-05-06 09:21 G	6447057.80	6447057.89	6447058.00	0.0134	0.0096
Uranus	12939-08-02 13:11 G	6447145.94	6447146.05	6447146.18	0.0134	0.0078
Uranus	12939-10-29 17:02 G	6447234.09	6447234.21	6447234.35	0.0134	0.0060
Uranus	12940-01-25 20:52 G	6447322.24	6447322.37	6447322.51	0.0134	0.0042
Saturn	12940-02-23 22:04 G	6447351.30	6447351.42	6447351.55	0.0284	0.0169
Uranus	12940-04-23 00:43 G	6447410.39	6447410.53	6447410.67	0.0134	0.0024
Saturn	12940-05-22 15:07 G	6447439.98	6447440.13	6447440.29	0.0284	0.0050
Mars	12940-05-28 19:40 G	6447446.17	6447446.32	6447446.47	0.1592	0.0392
Uranus	12940-07-20 04:19 G	6447498.54	6447498.68	6447498.83	0.0134	0.0008
Saturn	12940-08-19 08:23 G	6447528.70	6447528.85	6447529.01	0.0284	0.0072
Uranus	12940-10-16 08:09 G	6447586.70	6447586.84	6447586.98	0.0134	0.0011
Saturn	12940-11-16 01:55 G	6447617.47	6447617.58	6447617.70	0.0284	0.0197
Uranus	12941-01-12 11:45 G	6447674.85	6447674.99	6447675.13	0.0134	0.0029
Uranus	12941-04-10 15:36 G	6447763.01	6447763.15	6447763.28	0.0134	0.0046
Uranus	12941-07-07 18:57 G	6447851.17	6447851.29	6447851.42	0.0134	0.0064
Uranus	12941-10-03 22:33 G	6447939.34	6447939.44	6447939.56	0.0134	0.0081
Uranus	12941-12-31 02:09 G	6448027.50	6448027.59	6448027.69	0.0134	0.0098
Uranus	12942-03-29 05:45 G	6448115.68	6448115.74	6448115.82	0.0134	0.0115
Jupiter	12942-04-27 21:36 G	6448145.24	6448145.40	6448145.55	0.0486	0.0108
Venus	12942-06-23 23:31 G	6448202.39	6448202.48	6448202.57	0.3688	0.2168
Uranus	12942-06-25 09:07 G	6448203.87	6448203.88	6448203.92	0.0134	0.0133
Jupiter	12942-07-26 14:09 G	6448235.07	6448235.09	6448235.11	0.0485	0.0479
Mars	12943-03-16 12:57 G	6448467.92	6448468.04	6448468.16	0.1943	0.0095

Venus 12944-01-06 02:38 G 6448763.53 6448763.61 6448763.70 0.3683 0.2878

Moon 12945-09-11 04:33 G 6449377.59 6449377.69 6449377.79 0.2685 0.1760

Earth 12945-09-11 05:31 G 6449377.62 6449377.73 6449377.83 0.2680 0.1720 *

Venus 12948-01-07 17:02 G 6450226.17 6450226.21 6450226.25 0.3688 0.3396

Jupiter 12948-06-29 16:48 G 6450400.06 6450400.20 6450400.34 0.0542 0.0062

Mars 12949-10-19 01:26 G 6450876.45 6450876.56 6450876.67 0.1591 0.1047

Mars 12952-08-05 18:57 G 6451898.19 6451898.29 6451898.40 0.1945 0.1069

Jupiter 12954-02-13 23:16 G 6452455.34 6452455.47 6452455.61 0.0487 0.0246

Jupiter 12954-05-14 15:36 G 6452545.04 6452545.15 6452545.27 0.0486 0.0335

Saturn 12954-10-01 06:14 G 6452684.66 6452684.76 6452684.86 0.0275 0.0205

Saturn 12954-12-28 20:38 G 6452773.22 6452773.36 6452773.50 0.0275 0.0100

Saturn 12955-03-27 10:48 G 6452861.80 6452861.95 6452862.10 0.0275 0.0005

Saturn 12955-06-24 00:28 G 6452950.39 6452950.52 6452950.66 0.0275 0.0106

Saturn 12955-09-20 14:09 G 6453038.99 6453039.09 6453039.19 0.0275 0.0205

Moon 12956-03-14 23:45 G 6453215.38 6453215.49 6453215.59 0.2657 0.1273

Earth 12956-03-15 00:14 G 6453215.40 6453215.51 6453215.62 0.2652 0.1133 *

Moon 12958-09-14 06:00 G 6454128.62 6454128.75 6454128.89 0.2685 0.0400

Earth 12958-09-14 06:28 G 6454128.63 6454128.77 6454128.90 0.2679 0.0497 *

Jupiter 12960-04-17 18:14 G 6454710.12 6454710.26 6454710.40 0.0542 0.0121

Mars 12961-02-14 10:04 G 6455012.80 6455012.92 6455013.03 0.1596 0.1084

Mars 12963-12-03 00:43 G 6456034.52 6456034.53 6456034.54 0.1937 0.1915

Jupiter 12965-12-03 01:11 G 6456765.45 6456765.55 6456765.64 0.0487 0.0386

Jupiter 12966-03-02 17:02 G 6456855.06 6456855.21 6456855.36 0.0486 0.0188

Moon 12969-03-17 19:55 G 6457966.21 6457966.33 6457966.45 0.2660 0.0504

Earth 12969-03-17 19:55 G 6457966.21 6457966.33 6457966.45 0.2653 0.0469 *

Saturn 12969-07-12 23:31 G 6458083.38 6458083.48 6458083.60 0.0284 0.0199

Saturn 12969-10-09 16:19 G 6458172.03 6458172.18 6458172.33 0.0284 0.0081

Saturn 12970-01-06 09:21 G 6458260.74 6458260.89 6458261.05 0.0284 0.0041

Saturn 12970-04-05 02:52 G 6458349.49 6458349.62 6458349.76 0.0284 0.0163

Mars 12970-07-07 15:07 G 6458442.98 6458443.13 6458443.28 0.1594 0.0388

Jupiter 12972-02-04 19:55 G 6459020.22 6459020.33 6459020.46 0.0542 0.0297

Jupiter 12972-05-04 12:00 G 6459109.92 6459110.00 6459110.09 0.0543 0.0421

Mars 12973-04-24 06:57 G 6459464.69 6459464.79 6459464.90 0.1940 0.0979

Venus 12976-11-29 20:52 G 6460780.30 6460780.37 6460780.45 0.3686 0.2777

Jupiter 12977-12-19 18:43 G 6461165.12 6461165.28 6461165.43 0.0486 0.0048

Mars 12979-11-27 20:23 G 6461873.20 6461873.35 6461873.50 0.1592 0.0293

Uranus 12980-05-17 22:19 G 6462045.40 6462045.43 6462045.48 0.0145 0.0140

Uranus 12980-08-14 04:33 G 6462133.60 6462133.69 6462133.80 0.0145 0.0115

Uranus 12980-11-10 11:02 G 6462221.83 6462221.96 6462222.10 0.0145 0.0089

Uranus 12981-02-06 17:31 G 6462310.08 6462310.23 6462310.38 0.0145 0.0063

Uranus 12981-05-05 23:45 G 6462398.33 6462398.49 6462398.66 0.0145 0.0038

Uranus 12981-08-02 06:28 G 6462486.60 6462486.77 6462486.94 0.0145 0.0011

Uranus 12981-10-29 12:57 G 6462574.87 6462575.04 6462575.21 0.0145 0.0016

Uranus 12982-01-25 19:26 G 6462663.15 6462663.31 6462663.48 0.0144 0.0043

Earth 12982-03-20 15:36 G 6462717.07 6462717.15 6462717.22 0.2654 0.2032

Moon 12982-03-20 16:19 G 6462717.11 6462717.18 6462717.25 0.2658 0.2111 *

Uranus 12982-04-24 01:55 G 6462751.44 6462751.58 6462751.74 0.0144 0.0070

Venus 12982-06-15 15:21 G 6462804.04 6462804.14 6462804.25 0.3686 0.1378

Uranus 12982-07-21 08:38 G 6462839.74 6462839.86 6462840.00 0.0144 0.0096

Mars 12982-09-14 13:11 G 6462894.93 6462895.05 6462895.18 0.1943 0.0053

Uranus 12982-10-17 15:21 G 6462928.06 6462928.14 6462928.24 0.0144 0.0123

Jupiter 12983-11-23 21:50 G 6463330.35 6463330.41 6463330.49 0.0541 0.0469

Venus 12983-12-28 01:40 G 6463364.49 6463364.57 6463364.66 0.3685 0.2742

Saturn 12984-02-18 06:00 G 6463416.70 6463416.75 6463416.83 0.0275 0.0247

Jupiter 12984-02-21 14:23 G 6463419.98 6463420.10 6463420.23 0.0543 0.0257

Saturn 12984-05-16 20:38 G 6463505.24 6463505.36 6463505.50 0.0275 0.0141

Saturn 12984-08-13 11:02 G 6463593.81 6463593.96 6463594.11 0.0275 0.0036

Saturn 12984-11-10 00:57 G 6463682.39 6463682.54 6463682.68 0.0275 0.0066

Saturn 12985-02-06 14:23 G 6463770.99 6463771.10 6463771.22 0.0275 0.0167

Saturn 12985-05-06 03:50 G 6463859.63 6463859.66 6463859.70 0.0275 0.0264

Venus 12987-12-30 09:36 G 6464827.79 6464827.90 6464828.02 0.3687 0.0108

Neptune 12988-07-23 10:33 G 6465033.93 6465033.94 6465034.00 0.0088 0.0086

Neptune 12988-10-19 12:57 G 6465121.98 6465122.04 6465122.13 0.0088 0.0078

Neptune 12989-01-15 15:21 G 6465210.05 6465210.14 6465210.25 0.0088 0.0070

Moon 12989-03-13 08:23 G 6465266.84 6465266.85 6465266.87 0.2652 0.2617

Earth 12989-03-13 09:21 G 6465266.84 6465266.89 6465266.94 0.2651 0.2423 *

Neptune 12989-04-13 17:45 G 6465298.13 6465298.24 6465298.36 0.0088 0.0062

Mars 12989-04-19 01:40 G 6465303.45 6465303.57 6465303.69 0.1591 0.0960

Neptune 12989-07-10 20:09 G 6465386.22 6465386.34 6465386.47 0.0088 0.0054

Venus 12989-07-13 01:26 G 6465388.43 6465388.56 6465388.69 0.3684 0.0768

Neptune 12989-10-06 22:33 G 6465474.30 6465474.44 6465474.58 0.0088 0.0046

Jupiter 12989-10-07 19:55 G 6465475.18 6465475.33 6465475.49 0.0486 0.0101

Neptune 12990-01-03 00:57 G 6465562.39 6465562.54 6465562.68 0.0088 0.0038

Neptune 12990-04-01 02:52 G 6465650.48 6465650.62 6465650.79 0.0088 0.0031

Neptune 12990-06-28 05:31 G 6465738.57 6465738.73 6465738.89 0.0088 0.0022

Neptune 12990-09-24 07:55 G 6465826.67 6465826.83 6465826.99 0.0088 0.0014

Neptune 12990-12-21 10:19 G 6465914.76 6465914.93 6465915.10 0.0088 0.0006

Neptune 12991-03-19 12:43 G 6466002.86 6466003.03 6466003.20 0.0088 0.0002

Neptune 12991-06-15 15:07 G 6466090.96 6466091.13 6466091.29 0.0088 0.0010

Neptune 12991-09-11 17:31 G 6466179.07 6466179.23 6466179.39 0.0088 0.0018

Moon 12991-09-12 10:19 G 6466179.82 6466179.93 6466180.04 0.2684 0.1499

Earth 12991-09-12 11:16 G 6466179.85 6466179.97 6466180.09 0.2680 0.1283 *

Neptune 12991-12-08 19:55 G 6466267.17 6466267.33 6466267.49 0.0088 0.0026

Mars 12992-02-04 18:57 G 6466325.18 6466325.29 6466325.40 0.1945 0.0988

Neptune 12992-03-05 22:04 G 6466355.28 6466355.42 6466355.59 0.0088 0.0035

Neptune 12992-06-02 00:28 G 6466443.39 6466443.52 6466443.68 0.0088 0.0043

Neptune 12992-08-29 03:07 G 6466531.50 6466531.63 6466531.77 0.0088 0.0051

Neptune 12992-11-25 05:45 G 6466619.62 6466619.74 6466619.86 0.0088 0.0059

Neptune 12993-02-21 07:55 G 6466707.74 6466707.83 6466707.95 0.0088 0.0068

Neptune 12993-05-20 10:33 G 6466795.86 6466795.94 6466796.03 0.0088 0.0076

Venus 12993-07-15 03:50 G 6466851.55 6466851.66 6466851.76 0.3687 0.1294

Neptune 12993-08-16 13:11 G 6466884.01 6466884.05 6466884.09 0.0088 0.0084

Venus 12995-01-27 01:55 G 6467412.45 6467412.58 6467412.70 0.3684 0.1337

Jupiter 12995-12-10 16:19 G 6467730.04 6467730.18 6467730.32 0.0543 0.0083

Saturn 12998-11-29 23:02 G 6468815.38 6468815.46 6468815.54 0.0284 0.0242

Venus 12999-01-28 21:36 G 6468875.32 6468875.40 6468875.48 0.3687 0.2551

Saturn 12999-02-26 15:36 G 6468904.01 6468904.15 6468904.29 0.0284 0.0126

Saturn 12999-05-26 08:38 G 6468992.70 6468992.86 6468993.02 0.0284 0.0007

Saturn 12999-08-23 01:55 G 6469081.43 6469081.58 6469081.73 0.0284 0.0117

Saturn 12999-11-19 19:40 G 6469170.24 6469170.32 6469170.41 0.0284 0.0242

Venus 13000-08-13 02:38 G 6469436.58 6469436.61 6469436.65 0.3683 0.3549

Mars 13000-08-16 10:19 G 6469439.83 6469439.93 6469440.04 0.1596 0.1179

14TH MILLENNIUM CE

This is a list of transits of Mercury in the 14th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Jupiter 13001-07-27 21:50 G 6469785.28 6469785.41 6469785.55 0.0487 0.0240

Jupiter 13001-10-25 14:09 G 6469874.98 6469875.09 6469875.20 0.0485 0.0341

Moon 13002-03-17 04:48 G 6470017.59 6470017.70 6470017.82 0.2659 0.0784

Earth 13002-03-17 05:16 G 6470017.60 6470017.72 6470017.83 0.2652 0.0793 *

Moon 13004-09-15 12:00 G 6470930.88 6470931.00 6470931.13 0.2685 0.1017

Earth 13004-09-15 12:00 G 6470930.88 6470931.00 6470931.13 0.2678 0.0939 *

Jupiter 13007-09-29 17:02 G 6472040.07 6472040.21 6472040.35 0.0542 0.0111

Mars 13010-01-06 15:21 G 6472870.00 6472870.14 6472870.29 0.1594 0.0481

Mars 13012-10-24 07:11 G 6473891.70 6473891.80 6473891.90 0.1940 0.1082

Jupiter 13013-05-15 23:45 G 6474095.39 6474095.49 6474095.59 0.0487 0.0379

Saturn 13013-07-08 08:38 G 6474148.84 6474148.86 6474148.89 0.0276 0.0271

Jupiter 13013-08-13 15:36 G 6474185.00 6474185.15 6474185.30 0.0486 0.0196

Saturn 13013-10-04 23:16 G 6474237.35 6474237.47 6474237.59 0.0276 0.0164

Saturn 13014-01-01 13:40 G 6474325.92 6474326.07 6474326.21 0.0276 0.0058

Saturn 13014-03-31 03:36 G 6474414.51 6474414.65 6474414.80 0.0276 0.0045

Saturn 13014-06-27 17:16 G 6474503.10 6474503.22 6474503.35 0.0276 0.0146

Saturn 13014-09-24 06:43 G 6474591.72 6474591.78 6474591.85 0.0276 0.0245

Earth 13015-03-20 00:57 G 6474768.43 6474768.54 6474768.66 0.2653 0.0810

Moon 13015-03-20 01:11 G 6474768.44 6474768.55 6474768.66 0.2660 0.0773 *

Mars 13019-05-29 20:38 G 6476300.21 6476300.36 6476300.52 0.1592 0.0205

Jupiter 13019-07-18 18:14 G 6476350.14 6476350.26 6476350.38 0.0541 0.0296

Jupiter 13019-10-16 10:04 G 6476439.84 6476439.92 6476440.01 0.0543 0.0420

Mars 13022-03-16 13:26 G 6477321.93 6477322.06 6477322.18 0.1943 0.0124

Uranus 13022-12-02 08:23 G 6477582.82 6477582.85 6477582.90 0.0133 0.0128

Uranus 13023-02-28 12:28 G 6477670.94 6477671.02 6477671.10 0.0134 0.0110

Uranus 13023-05-27 16:19 G 6477759.08 6477759.18 6477759.29 0.0134 0.0092

Uranus 13023-08-23 20:09 G 6477847.22 6477847.34 6477847.46 0.0134 0.0074

Uranus 13023-11-20 00:00 G 6477935.37 6477935.50 6477935.63 0.0134 0.0056

Uranus 13024-02-16 03:36 G 6478023.52 6478023.65 6478023.80 0.0134 0.0039

Uranus 13024-05-14 07:26 G 6478111.67 6478111.81 6478111.96 0.0134 0.0021

Uranus 13024-08-10 11:16 G 6478199.82 6478199.97 6478200.11 0.0134 0.0003

Uranus 13024-11-06 14:52 G 6478287.98 6478288.12 6478288.27 0.0134 0.0015

Uranus 13025-02-02 18:43 G 6478376.14 6478376.28 6478376.42 0.0134 0.0032

Uranus 13025-05-01 22:19 G 6478464.30 6478464.43 6478464.56 0.0134 0.0050

Jupiter 13025-06-01 17:02 G 6478495.05 6478495.21 6478495.37 0.0486 0.0051

Uranus 13025-07-29 01:55 G 6478552.46 6478552.58 6478552.71 0.0134 0.0067

Uranus 13025-10-25 05:31 G 6478640.62 6478640.73 6478640.84 0.0134 0.0084

Uranus 13026-01-21 09:07 G 6478728.79 6478728.88 6478728.98 0.0134 0.0101

Uranus 13026-04-19 12:43 G 6478816.97 6478817.03 6478817.10 0.0134 0.0118

Earth 13028-03-21 20:38 G 6479519.31 6479519.36 6479519.41 0.2655 0.2362

Moon 13028-03-21 21:21 G 6479519.35 6479519.39 6479519.43 0.2659 0.2498 *

Saturn 13028-04-19 00:57 G 6479547.49 6479547.54 6479547.59 0.0284 0.0268

Saturn 13028-07-16 17:16 G 6479636.10 6479636.22 6479636.36 0.0284 0.0153

Saturn 13028-10-13 10:19 G 6479724.77 6479724.93 6479725.09 0.0284 0.0034

Mars 13028-10-19 02:09 G 6479730.47 6479730.59 6479730.72 0.1591 0.0866

Saturn 13029-01-10 03:21 G 6479813.49 6479813.64 6479813.80 0.0284 0.0088

Saturn 13029-04-08 21:07 G 6479902.27 6479902.38 6479902.49 0.0284 0.0212

Jupiter 13031-05-06 19:40 G 6480660.26 6480660.32 6480660.39 0.0541 0.0477

Jupiter 13031-08-04 12:14 G 6480749.89 6480750.01 6480750.14 0.0543 0.0249

Mars 13031-08-06 19:11 G 6480752.19 6480752.30 6480752.41 0.1945 0.0878

Venus 13033-07-07 19:11 G 6481453.21 6481453.30 6481453.39 0.3686 0.2339

Moon 13035-03-15 13:40 G 6482069.00 6482069.07 6482069.14 0.2653 0.2140

Earth 13035-03-15 14:23 G 6482069.03 6482069.10 6482069.18 0.2651 0.2082 *

Jupiter 13037-03-20 18:43 G 6482805.13 6482805.28 6482805.44 0.0486 0.0091

Moon 13037-09-13 16:04 G 6482982.04 6482982.17 6482982.30 0.2684 0.0872

Earth 13037-09-13 17:02 G 6482982.08 6482982.21 6482982.34 0.2679 0.0842 *

Mars 13038-03-11 07:55 G 6483160.79 6483160.83 6483160.88 0.1590 0.1514

Venus 13039-01-21 13:40 G 6483476.96 6483477.07 6483477.18 0.3686 0.0957

Mars 13040-02-15 11:02 G 6483866.87 6483866.96 6483867.05 0.1596 0.1279

Venus 13040-08-04 01:11 G 6484037.45 6484037.55 6484037.66 0.3684 0.2163

Mars 13040-12-27 00:43 G 6484182.51 6484182.53 6484182.56 0.1946 0.1904

Saturn 13043-02-21 23:31 G 6484969.39 6484969.48 6484969.59 0.0275 0.0202

Saturn 13043-05-21 14:09 G 6485057.95 6485058.09 6485058.23 0.0275 0.0096

Jupiter 13043-05-23 14:23 G 6485059.96 6485060.10 6485060.24 0.0543 0.0082

Saturn 13043-08-18 04:19 G 6485146.53 6485146.68 6485146.83 0.0275 0.0009

Saturn 13043-11-14 18:00 G 6485235.12 6485235.25 6485235.39 0.0275 0.0109

Saturn 13044-02-11 07:40 G 6485323.72 6485323.82 6485323.91 0.0275 0.0208

Venus 13044-08-06 07:55 G 6485500.71 6485500.83 6485500.94 0.3687 0.0407

Venus 13046-02-18 01:11 G 6486061.42 6486061.55 6486061.68 0.3684 0.0149

Moon 13048-03-17 10:04 G 6486819.80 6486819.92 6486820.04 0.2659 0.0573

Earth 13048-03-17 10:19 G 6486819.82 6486819.93 6486820.05 0.2653 0.0457 *

Jupiter 13049-01-06 20:09 G 6487115.21 6487115.34 6487115.48 0.0487 0.0235

Jupiter 13049-04-06 12:28 G 6487204.91 6487205.02 6487205.13 0.0485 0.0345

Mars 13049-07-07 16:04 G 6487297.02 6487297.17 6487297.31 0.1594 0.0580

Venus 13050-02-20 01:55 G 6487524.48 6487524.58 6487524.67 0.3687 0.1687

Earth 13050-09-16 18:00 G 6487733.13 6487733.25 6487733.37 0.2678 0.1392

Moon 13050-09-16 18:14 G 6487733.14 6487733.26 6487733.37 0.2685 0.1333 *

Venus 13051-09-04 01:40 G 6488085.46 6488085.57 6488085.68 0.3683 0.1989

Mars 13052-04-24 07:11 G 6488318.71 6488318.80 6488318.90 0.1940 0.1169

Jupiter 13055-03-11 16:19 G 6489370.04 6489370.18 6489370.32 0.0542 0.0094

Venus 13055-09-05 19:26 G 6489548.25 6489548.31 6489548.38 0.3688 0.2935

Saturn 13057-12-03 16:33 G 6490368.09 6490368.19 6490368.31 0.0284 0.0197

Saturn 13058-03-02 09:21 G 6490456.74 6490456.89 6490457.05 0.0284 0.0079

Saturn 13058-05-30 02:38 G 6490545.45 6490545.61 6490545.76 0.0284 0.0042

Saturn 13058-08-26 19:55 G 6490634.20 6490634.33 6490634.47 0.0284 0.0165

Mars 13058-11-27 21:07 G 6490727.22 6490727.38 6490727.53 0.1592 0.0115

Jupiter 13060-10-25 22:04 G 6491425.33 6491425.42 6491425.53 0.0487 0.0374

Jupiter 13061-01-23 13:55 G 6491514.94 6491515.08 6491515.23 0.0486 0.0201

Earth 13061-03-20 06:14 G 6491570.65 6491570.76 6491570.86 0.2654 0.1140

Moon 13061-03-20 06:28 G 6491570.67 6491570.77 6491570.87 0.2659 0.1248 *

Mars 13061-09-14 13:26 G 6491748.94 6491749.06 6491749.18 0.1943 0.0212

Uranus 13064-06-08 05:16 G 6492746.67 6492746.72 6492746.78 0.0145 0.0135

Uranus 13064-09-04 11:31 G 6492834.88 6492834.98 6492835.10 0.0145 0.0110

Uranus 13064-12-01 18:00 G 6492923.11 6492923.25 6492923.39 0.0145 0.0084

Uranus 13065-02-28 00:28 G 6493011.36 6493011.52 6493011.67 0.0145 0.0058

Uranus 13065-05-27 06:43 G 6493099.62 6493099.78 6493099.95 0.0145 0.0032

Uranus 13065-08-23 13:11 G 6493187.88 6493188.05 6493188.23 0.0145 0.0007

Uranus 13065-11-19 19:55 G 6493276.16 6493276.33 6493276.50 0.0144 0.0021

Uranus 13066-02-16 02:23 G 6493364.44 6493364.60 6493364.76 0.0144 0.0047

Uranus 13066-05-15 08:52 G 6493452.73 6493452.87 6493453.03 0.0144 0.0074

Uranus 13066-08-11 15:21 G 6493541.03 6493541.14 6493541.28 0.0144 0.0102

Uranus 13066-11-07 22:04 G 6493629.36 6493629.42 6493629.52 0.0144 0.0129

Jupiter 13066-12-28 17:02 G 6493680.09 6493680.21 6493680.33 0.0541 0.0288

Jupiter 13067-03-28 08:52 G 6493769.79 6493769.87 6493769.96 0.0543 0.0427

Mars 13068-04-19 02:38 G 6494157.48 6494157.61 6494157.74 0.1591 0.0776

Earth 13070-09-11 22:04 G 6495033.38 6495033.42 6495033.46 0.2680 0.2565

Mars 13071-02-04 19:26 G 6495179.20 6495179.31 6495179.42 0.1945 0.0778

Neptune 13071-04-29 04:48 G 6495262.69 6495262.70 6495262.72 0.0089 0.0089

Neptune 13071-07-26 06:57 G 6495350.73 6495350.79 6495350.85 0.0089 0.0081

Neptune 13071-10-22 08:52 G 6495438.79 6495438.87 6495438.96 0.0089 0.0073

Neptune 13072-01-18 10:33 G 6495526.85 6495526.94 6495527.06 0.0089 0.0066

Neptune 13072-04-15 12:43 G 6495614.92 6495615.03 6495615.16 0.0089 0.0057

Saturn 13072-07-11 01:55 G 6495701.50 6495701.58 6495701.67 0.0276 0.0227

Neptune 13072-07-12 14:38 G 6495703.00 6495703.11 6495703.25 0.0089 0.0050

Saturn 13072-10-07 16:33 G 6495790.05 6495790.19 6495790.33 0.0276 0.0120

Neptune 13072-10-08 16:48 G 6495791.07 6495791.20 6495791.34 0.0089 0.0041

Jupiter 13072-11-11 15:21 G 6495824.99 6495825.14 6495825.30 0.0486 0.0058

Saturn 13073-01-04 06:43 G 6495878.63 6495878.78 6495878.93 0.0276 0.0017

Neptune 13073-01-04 18:43 G 6495879.15 6495879.28 6495879.43 0.0089 0.0034

Saturn 13073-04-02 20:38 G 6495967.22 6495967.36 6495967.50 0.0276 0.0087

Neptune 13073-04-02 20:52 G 6495967.22 6495967.37 6495967.51 0.0089 0.0026 *

Neptune 13073-06-29 22:33 G 6496055.30 6496055.44 6496055.60 0.0089 0.0019

Saturn 13073-06-30 10:19 G 6496055.83 6496055.93 6496056.04 0.0276 0.0187

Neptune 13073-09-26 00:43 G 6496143.38 6496143.53 6496143.68 0.0089 0.0010

Neptune 13073-12-23 02:38 G 6496231.46 6496231.61 6496231.76 0.0089 0.0002

Neptune 13074-03-21 04:33 G 6496319.54 6496319.69 6496319.84 0.0089 0.0005

Neptune 13074-06-17 06:14 G 6496407.62 6496407.76 6496407.92 0.0089 0.0014

Neptune 13074-09-13 08:23 G 6496495.70 6496495.85 6496495.99 0.0089 0.0021

Neptune 13074-12-10 10:04 G 6496583.79 6496583.92 6496584.07 0.0089 0.0028

Neptune 13075-03-08 12:00 G 6496671.87 6496672.00 6496672.14 0.0089 0.0036

Neptune 13075-06-04 13:55 G 6496759.95 6496760.08 6496760.21 0.0089 0.0043

Neptune 13075-08-31 15:50 G 6496848.04 6496848.16 6496848.28 0.0089 0.0051

Neptune 13075-11-27 17:31 G 6496936.13 6496936.23 6496936.35 0.0089 0.0058

Neptune 13076-02-23 19:26 G 6497024.22 6497024.31 6497024.41 0.0089 0.0066

Neptune 13076-05-21 21:07 G 6497112.31 6497112.38 6497112.47 0.0089 0.0074

Neptune 13076-08-17 23:02 G 6497200.41 6497200.46 6497200.53 0.0089 0.0081

Neptune 13076-11-14 00:43 G 6497288.52 6497288.53 6497288.57 0.0089 0.0088

Mars 13077-09-09 08:23 G 6497587.79 6497587.85 6497587.92 0.1590 0.1424

Jupiter 13078-10-16 18:00 G 6497990.19 6497990.25 6497990.32 0.0540 0.0476

Jupiter 13079-01-14 10:33 G 6498079.81 6498079.94 6498080.06 0.0542 0.0247

Mars 13079-08-16 11:31 G 6498293.90 6498293.98 6498294.05 0.1596 0.1378

Mars 13080-06-27 00:57 G 6498609.50 6498609.54 6498609.59 0.1946 0.1801

Moon 13081-03-15 18:57 G 6498871.20 6498871.29 6498871.37 0.2655 0.1863

Earth 13081-03-15 19:40 G 6498871.23 6498871.32 6498871.41 0.2651 0.1733 *

Moon 13083-09-14 22:04 G 6499784.29 6499784.42 6499784.56 0.2685 0.0543

Earth 13083-09-14 22:48 G 6499784.31 6499784.45 6499784.58 0.2679 0.0402 *

Venus 13084-07-28 22:48 G 6500102.40 6500102.45 6500102.50 0.3685 0.3333

Jupiter 13084-08-30 17:02 G 6500135.05 6500135.21 6500135.36 0.0486 0.0088

Saturn 13087-04-22 19:11 G 6501100.21 6501100.30 6501100.40 0.0283 0.0219

Saturn 13087-07-20 11:45 G 6501188.85 6501188.99 6501189.14 0.0283 0.0102

Saturn 13087-10-17 04:48 G 6501277.54 6501277.70 6501277.86 0.0283 0.0017

Saturn 13088-01-13 22:04 G 6501366.28 6501366.42 6501366.56 0.0283 0.0140

Saturn 13088-04-11 15:50 G 6501455.11 6501455.16 6501455.22 0.0283 0.0265

Mars 13089-01-05 16:19 G 6501724.04 6501724.18 6501724.32 0.1594 0.0673

Venus 13090-02-11 17:31 G 6502126.13 6502126.23 6502126.33 0.3686 0.1910

Jupiter 13090-11-02 12:14 G 6502389.87 6502390.01 6502390.15 0.0542 0.0071

Pluto 13091-02-16 13:40 G 6502496.03 6502496.07 6502496.14 0.0071 0.0064

Pluto 13091-05-15 14:23 G 6502584.03 6502584.10 6502584.20 0.0071 0.0055

Pluto 13091-08-11 15:21 G 6502672.04 6502672.14 6502672.24 0.0071 0.0045

Venus 13091-08-26 01:26 G 6502686.52 6502686.56 6502686.60 0.3685 0.3491

Mars 13091-10-24 07:26 G 6502745.72 6502745.81 6502745.90 0.1940 0.1264

Pluto 13091-11-07 16:04 G 6502760.06 6502760.17 6502760.29 0.0071 0.0036

Pluto 13092-02-03 16:33 G 6502848.08 6502848.19 6502848.32 0.0071 0.0028

Pluto 13092-05-01 17:31 G 6502936.10 6502936.23 6502936.36 0.0071 0.0018

Pluto 13092-07-28 18:14 G 6503024.13 6503024.26 6503024.39 0.0072 0.0009

Pluto 13092-10-24 18:57 G 6503112.16 6503112.29 6503112.43 0.0072 0.0001

Pluto 13093-01-20 19:40 G 6503200.19 6503200.32 6503200.45 0.0072 0.0010

Pluto 13093-04-18 20:23 G 6503288.22 6503288.35 6503288.48 0.0072 0.0020

Pluto 13093-07-15 20:52 G 6503376.26 6503376.37 6503376.51 0.0072 0.0030

Pluto 13093-10-11 21:50 G 6503464.30 6503464.41 6503464.53 0.0072 0.0039

Pluto 13094-01-07 22:33 G 6503552.35 6503552.44 6503552.55 0.0072 0.0049

Moon 13094-03-18 15:07 G 6503622.02 6503622.13 6503622.25 0.2659 0.0134

Earth 13094-03-18 15:36 G 6503622.03 6503622.15 6503622.27 0.2653 0.0122 *

Pluto 13094-04-05 23:16 G 6503640.40 6503640.47 6503640.56 0.0072 0.0059

Pluto 13094-07-02 23:45 G 6503728.47 6503728.49 6503728.55 0.0072 0.0070

Venus 13095-08-28 11:45 G 6504149.88 6504149.99 6504150.10 0.3686 0.0544

Jupiter 13096-06-18 18:57 G 6504445.15 6504445.29 6504445.43 0.0487 0.0228

Jupiter 13096-09-16 11:02 G 6504534.85 6504534.96 6504535.07 0.0485 0.0352

Earth 13096-09-16 23:45 G 6504535.39 6504535.49 6504535.59 0.2678 0.1843

Moon 13096-09-17 00:00 G 6504535.41 6504535.50 6504535.59 0.2685 0.1970 *

Venus 13097-03-11 00:57 G 6504710.42 6504710.54 6504710.66 0.3684 0.1558

Mars 13098-05-28 21:36 G 6505154.25 6505154.40 6505154.55 0.1592 0.0015

Venus 13101-03-14 06:00 G 6506173.64 6506173.75 6506173.86 0.3687 0.0792

Mars 13101-03-16 13:40 G 6506175.95 6506176.07 6506176.19 0.1943 0.0308

Saturn 13101-11-29 02:52 G 6506433.57 6506433.62 6506433.66 0.0275 0.0262

Saturn 13102-02-25 17:16 G 6506522.10 6506522.22 6506522.35 0.0275 0.0156

Saturn 13102-05-25 07:40 G 6506610.67 6506610.82 6506610.97 0.0275 0.0051

Saturn 13102-08-21 21:36 G 6506699.26 6506699.40 6506699.55 0.0275 0.0053

Jupiter 13102-08-22 14:09 G 6506699.95 6506700.09 6506700.23 0.0542 0.0101

Venus 13102-09-26 01:11 G 6506734.41 6506734.55 6506734.68 0.3684 0.0502

Saturn 13102-11-18 11:16 G 6506787.86 6506787.97 6506788.10 0.0275 0.0153

Saturn 13103-02-15 00:43 G 6506876.48 6506876.53 6506876.60 0.0275 0.0251

Venus 13106-09-28 00:00 G 6508197.40 6508197.50 6508197.59 0.3687 0.2079

Uranus 13106-12-23 15:21 G 6508284.10 6508284.14 6508284.20 0.0134 0.0125

Uranus 13107-03-21 19:11 G 6508372.22 6508372.30 6508372.40 0.0134 0.0107

Earth 13107-03-22 11:16 G 6508372.87 6508372.97 6508373.07 0.2654 0.1473

Moon 13107-03-22 11:45 G 6508372.89 6508372.99 6508373.09 0.2660 0.1473 *

Uranus 13107-06-17 23:02 G 6508460.36 6508460.46 6508460.58 0.0134 0.0089

Uranus 13107-09-14 02:52 G 6508548.51 6508548.62 6508548.75 0.0134 0.0071

Mars 13107-10-20 03:07 G 6508584.49 6508584.63 6508584.76 0.1591 0.0686

Uranus 13107-12-11 06:43 G 6508636.65 6508636.78 6508636.92 0.0134 0.0053

Uranus 13108-03-08 10:33 G 6508724.80 6508724.94 6508725.09 0.0134 0.0035

Jupiter 13108-04-07 20:23 G 6508755.25 6508755.35 6508755.45 0.0487 0.0371

Venus 13108-04-11 01:40 G 6508758.48 6508758.57 6508758.66 0.3683 0.2656

Uranus 13108-06-04 14:23 G 6508812.96 6508813.10 6508813.25 0.0134 0.0017

Jupiter 13108-07-06 12:14 G 6508844.86 6508845.01 6508845.15 0.0486 0.0203

Uranus 13108-08-31 18:14 G 6508901.11 6508901.26 6508901.40 0.0134 0.0002

Uranus 13108-11-27 21:50 G 6508989.27 6508989.41 6508989.56 0.0134 0.0018

Uranus 13109-02-24 01:26 G 6509077.43 6509077.56 6509077.70 0.0134 0.0036

Uranus 13109-05-23 05:16 G 6509165.59 6509165.72 6509165.85 0.0134 0.0053

Uranus 13109-08-19 08:38 G 6509253.75 6509253.86 6509253.99 0.0134 0.0071

Uranus 13109-11-15 12:14 G 6509341.92 6509342.01 6509342.13 0.0134 0.0088

Uranus 13110-02-11 15:50 G 6509430.08 6509430.16 6509430.26 0.0134 0.0105

Uranus 13110-05-10 19:26 G 6509518.27 6509518.31 6509518.38 0.0134 0.0122

Mars 13110-08-06 19:26 G 6509606.20 6509606.31 6509606.43 0.1945 0.0688

Venus 13112-04-12 17:31 G 6510221.19 6510221.23 6510221.28 0.3688 0.3314

Jupiter 13114-06-10 16:04 G 6511010.04 6511010.17 6511010.29 0.0541 0.0277

Jupiter 13114-09-08 07:55 G 6511099.75 6511099.83 6511099.91 0.0543 0.0440

Saturn 13116-09-09 18:43 G 6511832.22 6511832.28 6511832.33 0.0284 0.0262

Moon 13116-09-13 02:38 G 6511835.54 6511835.61 6511835.68 0.2683 0.2296

Earth 13116-09-13 03:50 G 6511835.58 6511835.66 6511835.74 0.2680 0.2138 *

Saturn 13116-12-07 11:02 G 6511920.83 6511920.96 6511921.10 0.0284 0.0147

Saturn 13117-03-06 03:50 G 6512009.51 6512009.66 6512009.82 0.0284 0.0029

Mars 13117-03-11 08:38 G 6512014.78 6512014.86 6512014.94 0.1590 0.1340

Saturn 13117-06-02 21:07 G 6512098.23 6512098.38 6512098.53 0.0284 0.0094

Saturn 13117-08-30 14:38 G 6512187.01 6512187.11 6512187.22 0.0284 0.0218

Mars 13119-02-15 11:45 G 6512720.93 6512720.99 6512721.05 0.1596 0.1469

Mars 13119-12-28 01:11 G 6513036.49 6513036.55 6513036.61 0.1947 0.1700

Jupiter 13120-04-24 13:40 G 6513154.92 6513155.07 6513155.23 0.0486 0.0061

Jupiter 13126-03-29 16:33 G 6515320.13 6515320.19 6515320.26 0.0540 0.0469

Jupiter 13126-06-27 09:07 G 6515409.76 6515409.88 6515410.00 0.0542 0.0254

Moon 13127-03-18 00:14 G 6515673.41 6515673.51 6515673.60 0.2657 0.1477

Earth 13127-03-18 00:43 G 6515673.43 6515673.53 6515673.64 0.2652 0.1389 *

Mars 13128-07-07 16:48 G 6516151.07 6516151.20 6516151.34 0.1594 0.0766

Moon 13129-09-16 04:04 G 6516586.54 6516586.67 6516586.81 0.2686 0.0061

Earth 13129-09-16 04:33 G 6516586.55 6516586.69 6516586.82 0.2679 0.0075 *

Mars 13131-04-25 07:40 G 6517172.73 6517172.82 6517172.90 0.1940 0.1369

Saturn 13131-07-15 19:40 G 6517254.20 6517254.32 6517254.43 0.0276 0.0181

Saturn 13131-10-12 10:04 G 6517342.77 6517342.92 6517343.06 0.0276 0.0075

Saturn 13132-01-09 00:14 G 6517431.36 6517431.51 6517431.66 0.0276 0.0029

Jupiter 13132-02-11 15:07 G 6517464.98 6517465.13 6517465.29 0.0487 0.0087

Saturn 13132-04-06 13:55 G 6517519.95 6517520.08 6517520.21 0.0276 0.0131

Saturn 13132-07-04 03:36 G 6517608.57 6517608.65 6517608.73 0.0276 0.0230

Mars 13137-11-27 22:04 G 6519581.26 6519581.42 6519581.57 0.1592 0.0082

Jupiter 13138-04-15 10:33 G 6519719.80 6519719.94 6519720.08 0.0542 0.0072

Moon 13140-03-19 20:38 G 6520424.24 6520424.36 6520424.48 0.2659 0.0180

Earth 13140-03-19 20:38 G 6520424.24 6520424.36 6520424.48 0.2653 0.0234 *

Mars 13140-09-14 13:40 G 6520602.96 6520603.07 6520603.19 0.1943 0.0412

Venus 13141-03-05 21:07 G 6520775.31 6520775.38 6520775.45 0.3686 0.2888

Earth 13142-09-19 05:31 G 6521337.66 6521337.73 6521337.80 0.2678 0.2299

Moon 13142-09-19 06:00 G 6521337.67 6521337.75 6521337.82 0.2684 0.2278 *

Jupiter 13143-11-30 16:48 G 6521775.06 6521775.20 6521775.34 0.0487 0.0228

Jupiter 13144-02-28 08:52 G 6521864.77 6521864.87 6521864.99 0.0486 0.0353

Saturn 13146-01-27 21:36 G 6522564.39 6522564.40 6522564.42 0.0283 0.0281

Saturn 13146-04-26 13:55 G 6522652.96 6522653.08 6522653.21 0.0283 0.0167

Saturn 13146-07-24 06:43 G 6522741.63 6522741.78 6522741.94 0.0283 0.0049

Venus 13146-09-19 15:50 G 6522799.05 6522799.16 6522799.26 0.3686 0.1486

Saturn 13146-10-20 23:45 G 6522830.34 6522830.49 6522830.65 0.0283 0.0073

Saturn 13147-01-17 17:16 G 6522919.11 6522919.22 6522919.34 0.0283 0.0196

Mars 13147-04-20 03:36 G 6523011.51 6523011.65 6523011.79 0.1591 0.0592

Venus 13148-04-02 00:57 G 6523359.47 6523359.54 6523359.62 0.3685 0.2912

Uranus 13148-06-29 12:14 G 6523447.94 6523448.01 6523448.09 0.0145 0.0130

Uranus 13148-09-25 18:43 G 6523536.16 6523536.28 6523536.39 0.0145 0.0104

Uranus 13148-12-23 00:43 G 6523624.40 6523624.53 6523624.68 0.0145 0.0079

Uranus 13149-03-21 07:11 G 6523712.65 6523712.80 6523712.96 0.0145 0.0053

Uranus 13149-06-17 13:40 G 6523800.91 6523801.07 6523801.24 0.0145 0.0027

Uranus 13149-09-13 20:09 G 6523889.17 6523889.34 6523889.51 0.0144 0.0002

Uranus 13149-12-11 02:38 G 6523977.45 6523977.61 6523977.78 0.0144 0.0026

Jupiter 13150-02-01 11:45 G 6524029.85 6524029.99 6524030.13 0.0542 0.0112

Mars 13150-02-04 19:40 G 6524033.20 6524033.32 6524033.44 0.1945 0.0587

Uranus 13150-03-09 09:07 G 6524065.73 6524065.88 6524066.05 0.0144 0.0053

Uranus 13150-06-05 15:50 G 6524154.02 6524154.16 6524154.31 0.0144 0.0079

Uranus 13150-09-01 22:19 G 6524242.33 6524242.43 6524242.56 0.0144 0.0107

Uranus 13150-11-29 05:02 G 6524330.66 6524330.71 6524330.79 0.0144 0.0133

Venus 13152-04-04 10:04 G 6524822.80 6524822.92 6524823.03 0.3687 0.0139

Earth 13153-03-22 16:19 G 6525175.10 6525175.18 6525175.27 0.2654 0.1802

Moon 13153-03-22 16:48 G 6525175.12 6525175.20 6525175.28 0.2660 0.1945 *

Neptune 13153-04-21 10:19 G 6525204.88 6525204.93 6525205.00 0.0088 0.0082

Neptune 13153-07-18 12:57 G 6525292.95 6525293.04 6525293.12 0.0088 0.0073

Neptune 13153-10-14 14:52 G 6525381.03 6525381.12 6525381.24 0.0088 0.0066

Venus 13153-10-17 00:43 G 6525383.40 6525383.53 6525383.66 0.3684 0.0948

Neptune 13154-01-10 17:16 G 6525469.11 6525469.22 6525469.35 0.0088 0.0058

Neptune 13154-04-08 19:26 G 6525557.19 6525557.31 6525557.46 0.0088 0.0050

Neptune 13154-07-05 21:50 G 6525645.28 6525645.41 6525645.56 0.0088 0.0042

Neptune 13154-10-02 00:14 G 6525733.37 6525733.51 6525733.67 0.0088 0.0034

Neptune 13154-12-29 02:38 G 6525821.46 6525821.61 6525821.77 0.0088 0.0026

Neptune 13155-03-27 05:02 G 6525909.55 6525909.71 6525909.87 0.0088 0.0018

Neptune 13155-06-23 07:26 G 6525997.65 6525997.81 6525997.97 0.0088 0.0010

Jupiter 13155-09-18 18:43 G 6526085.18 6526085.28 6526085.39 0.0487 0.0366

Neptune 13155-09-19 09:50 G 6526085.74 6526085.91 6526086.07 0.0088 0.0002

Neptune 13155-12-16 12:14 G 6526173.84 6526174.01 6526174.17 0.0088 0.0006

Jupiter 13155-12-17 10:33 G 6526174.80 6526174.94 6526175.09 0.0486 0.0208

Neptune 13156-03-13 14:38 G 6526261.95 6526262.11 6526262.27 0.0088 0.0014

Neptune 13156-06-09 16:48 G 6526350.05 6526350.20 6526350.37 0.0088 0.0023

Neptune 13156-09-05 19:11 G 6526438.15 6526438.30 6526438.47 0.0088 0.0031

Mars 13156-09-09 09:07 G 6526441.79 6526441.88 6526441.98 0.1590 0.1247

Neptune 13156-12-02 21:36 G 6526526.26 6526526.40 6526526.56 0.0088 0.0039

Neptune 13157-03-01 00:14 G 6526614.37 6526614.51 6526614.65 0.0088 0.0047

Neptune 13157-05-28 02:23 G 6526702.49 6526702.60 6526702.74 0.0088 0.0056

Neptune 13157-08-24 05:02 G 6526790.60 6526790.71 6526790.83 0.0088 0.0064

Venus 13157-10-19 04:04 G 6526846.57 6526846.67 6526846.78 0.3687 0.1195

Neptune 13157-11-20 07:26 G 6526878.73 6526878.81 6526878.92 0.0088 0.0072

Neptune 13158-02-16 09:50 G 6526966.86 6526966.91 6526966.99 0.0088 0.0081

Mars 13158-08-16 12:28 G 6527147.99 6527148.02 6527148.04 0.1596 0.1573

Venus 13159-05-03 00:57 G 6527407.41 6527407.54 6527407.67 0.3684 0.1137

Mars 13159-06-28 01:26 G 6527463.49 6527463.56 6527463.62 0.1946 0.1603

Saturn 13160-12-01 20:38 G 6527986.27 6527986.36 6527986.46 0.0275 0.0214

Saturn 13161-02-28 11:16 G 6528074.83 6528074.97 6528075.11 0.0275 0.0108

Saturn 13161-05-28 01:26 G 6528163.41 6528163.56 6528163.71 0.0275 0.0005

Saturn 13161-08-24 15:21 G 6528252.00 6528252.14 6528252.28 0.0275 0.0098

Jupiter 13161-11-20 13:40 G 6528339.95 6528340.07 6528340.19 0.0542 0.0285

Saturn 13161-11-21 05:02 G 6528340.61 6528340.71 6528340.81 0.0275 0.0198

Jupiter 13162-02-18 05:45 G 6528429.66 6528429.74 6528429.82 0.0543 0.0433

Moon 13162-09-14 08:38 G 6528637.76 6528637.86 6528637.95 0.2684 0.1854

Earth 13162-09-14 09:36 G 6528637.79 6528637.90 6528638.00 0.2680 0.1700 *

Venus 13163-05-04 21:50 G 6528870.33 6528870.41 6528870.50 0.3688 0.2469

Venus 13164-11-16 01:40 G 6529431.52 6529431.57 6529431.63 0.3683 0.3330

Jupiter 13167-10-05 11:45 G 6530484.84 6530484.99 6530485.15 0.0486 0.0063

Mars 13168-01-06 17:16 G 6530578.09 6530578.22 6530578.35 0.1594 0.0862

Mars 13170-10-24 07:40 G 6531599.74 6531599.82 6531599.90 0.1940 0.1453

Moon 13173-03-18 05:16 G 6532475.61 6532475.72 6532475.83 0.2657 0.1131

Earth 13173-03-18 06:00 G 6532475.64 6532475.75 6532475.86 0.2652 0.1046 *

Jupiter 13173-09-08 15:21 G 6532650.07 6532650.14 6532650.21 0.0541 0.0463

Jupiter 13173-12-07 07:55 G 6532739.71 6532739.83 6532739.95 0.0543 0.0263

Saturn 13175-09-13 13:26 G 6533384.96 6533385.06 6533385.17 0.0284 0.0209

Moon 13175-09-17 10:04 G 6533388.78 6533388.92 6533389.05 0.2686 0.0444

Earth 13175-09-17 10:19 G 6533388.79 6533388.93 6533389.06 0.2679 0.0491 *

Saturn 13175-12-11 06:00 G 6533473.60 6533473.75 6533473.90 0.0284 0.0093

Saturn 13176-03-08 23:02 G 6533562.30 6533562.46 6533562.62 0.0284 0.0027

Saturn 13176-06-05 16:19 G 6533651.05 6533651.18 6533651.32 0.0283 0.0150

Pluto 13176-07-12 06:00 G 6533687.73 6533687.75 6533687.82 0.0073 0.0072

Saturn 13176-09-02 10:04 G 6533739.89 6533739.92 6533739.96 0.0283 0.0275

Pluto 13176-10-08 08:38 G 6533775.75 6533775.86 6533775.99 0.0073 0.0057

Pluto 13177-01-04 10:48 G 6533863.81 6533863.95 6533864.12 0.0073 0.0043

Pluto 13177-04-02 13:11 G 6533951.89 6533952.05 6533952.24 0.0073 0.0028

Mars 13177-05-28 22:19 G 6534008.28 6534008.43 6534008.59 0.1592 0.0171

Pluto 13177-06-29 15:36 G 6534039.97 6534040.15 6534040.35 0.0073 0.0014

Pluto 13177-09-25 18:00 G 6534128.06 6534128.25 6534128.44 0.0073 0.0001

Pluto 13177-12-22 20:09 G 6534216.16 6534216.34 6534216.53 0.0073 0.0015

Pluto 13178-03-20 22:19 G 6534304.26 6534304.43 6534304.61 0.0073 0.0029

Pluto 13178-06-17 00:14 G 6534392.38 6534392.51 6534392.69 0.0072 0.0043

Pluto 13178-09-13 02:52 G 6534480.50 6534480.62 6534480.74 0.0072 0.0056

Pluto 13178-12-10 04:48 G 6534568.66 6534568.70 6534568.76 0.0072 0.0069

Jupiter 13179-07-24 13:40 G 6534794.91 6534795.07 6534795.22 0.0487 0.0084

Mars 13180-03-15 13:55 G 6535029.96 6535030.08 6535030.19 0.1943 0.0500

Jupiter 13185-09-25 09:07 G 6537049.74 6537049.88 6537050.02 0.0542 0.0077

Moon 13186-03-21 01:55 G 6537226.46 6537226.58 6537226.69 0.2659 0.0598

Earth 13186-03-21 01:55 G 6537226.46 6537226.58 6537226.69 0.2653 0.0572 *

Mars 13186-10-19 03:50 G 6537438.52 6537438.66 6537438.81 0.1591 0.0502

Mars 13189-08-05 19:55 G 6538460.21 6538460.33 6538460.45 0.1945 0.0480

Saturn 13190-04-20 22:33 G 6538718.38 6538718.44 6538718.52 0.0276 0.0242

Saturn 13190-07-18 13:11 G 6538806.93 6538807.05 6538807.19 0.0276 0.0135

Saturn 13190-10-15 03:36 G 6538895.51 6538895.65 6538895.80 0.0276 0.0031

Saturn 13191-01-11 17:45 G 6538984.10 6538984.24 6538984.38 0.0276 0.0074

Uranus 13191-01-12 22:04 G 6538985.37 6538985.42 6538985.48 0.0134 0.0122

Saturn 13191-04-10 07:26 G 6539072.70 6539072.81 6539072.92 0.0276 0.0175

Uranus 13191-04-11 01:55 G 6539073.50 6539073.58 6539073.68 0.0134 0.0104

Jupiter 13191-05-12 14:52 G 6539104.99 6539105.12 6539105.26 0.0487 0.0229

Saturn 13191-07-07 20:52 G 6539161.36 6539161.37 6539161.39 0.0276 0.0273

Uranus 13191-07-08 05:45 G 6539161.64 6539161.74 6539161.86 0.0134 0.0086

Jupiter 13191-08-10 07:11 G 6539194.69 6539194.80 6539194.91 0.0486 0.0354

Uranus 13191-10-04 09:36 G 6539249.78 6539249.90 6539250.04 0.0134 0.0068

Uranus 13191-12-31 13:26 G 6539337.93 6539338.06 6539338.20 0.0134 0.0050

Uranus 13192-03-28 17:16 G 6539426.08 6539426.22 6539426.37 0.0134 0.0032

Uranus 13192-06-24 21:07 G 6539514.24 6539514.38 6539514.53 0.0134 0.0014

Uranus 13192-09-21 00:57 G 6539602.39 6539602.54 6539602.68 0.0134 0.0004

Uranus 13192-12-18 04:33 G 6539690.55 6539690.69 6539690.84 0.0134 0.0022

Uranus 13193-03-16 08:23 G 6539778.71 6539778.85 6539778.99 0.0134 0.0039

Uranus 13193-06-12 12:00 G 6539866.87 6539867.00 6539867.13 0.0134 0.0056

Uranus 13193-09-08 15:36 G 6539955.03 6539955.15 6539955.27 0.0134 0.0074

Uranus 13193-12-05 19:11 G 6540043.20 6540043.30 6540043.41 0.0134 0.0091

Uranus 13194-03-03 22:48 G 6540131.37 6540131.45 6540131.54 0.0134 0.0108

Uranus 13194-05-31 02:23 G 6540219.56 6540219.60 6540219.65 0.0134 0.0125

Mars 13196-03-10 09:36 G 6540868.80 6540868.90 6540869.00 0.1590 0.1158

Jupiter 13197-07-14 10:19 G 6541359.79 6541359.93 6541360.07 0.0541 0.0110

Venus 13197-10-10 19:26 G 6541448.23 6541448.31 6541448.40 0.3686 0.2448

Mars 13198-12-27 01:26 G 6541890.48 6541890.56 6541890.64 0.1947 0.1509

Earth 13199-03-23 21:21 G 6541977.33 6541977.39 6541977.46 0.2654 0.2137

Moon 13199-03-23 22:04 G 6541977.35 6541977.42 6541977.49 0.2659 0.2158 *

Jupiter 13203-02-28 16:48 G 6543415.10 6543415.20 6543415.30 0.0487 0.0369

Venus 13203-04-26 13:55 G 6543471.97 6543472.08 6543472.19 0.3686 0.1056

Jupiter 13203-05-29 08:23 G 6543504.71 6543504.85 6543505.00 0.0486 0.0206

Venus 13204-11-07 00:43 G 6544032.43 6544032.53 6544032.63 0.3684 0.2328

Saturn 13205-01-30 16:33 G 6544117.10 6544117.19 6544117.29 0.0283 0.0228

Saturn 13205-04-29 09:07 G 6544205.74 6544205.88 6544206.03 0.0283 0.0112

Saturn 13205-07-27 02:09 G 6544294.43 6544294.59 6544294.75 0.0283 0.0010

Saturn 13205-10-23 19:26 G 6544383.16 6544383.31 6544383.45 0.0283 0.0129

Saturn 13206-01-20 12:57 G 6544471.97 6544472.04 6544472.11 0.0283 0.0254

Moon 13206-03-16 14:09 G 6544527.04 6544527.09 6544527.14 0.2653 0.2403

Earth 13206-03-16 15:07 G 6544527.07 6544527.13 6544527.18 0.2651 0.2349 *

Mars 13207-07-07 17:45 G 6545005.12 6545005.24 6545005.36 0.1594 0.0961

Moon 13208-09-14 14:23 G 6545439.99 6545440.10 6545440.22 0.2685 0.1320

Earth 13208-09-14 15:21 G 6545440.02 6545440.14 6545440.26 0.2680 0.1260 *

Venus 13208-11-09 08:09 G 6545495.73 6545495.84 6545495.95 0.3687 0.0295

Jupiter 13209-05-02 11:16 G 6545669.85 6545669.97 6545670.09 0.0541 0.0297

Jupiter 13209-07-31 03:21 G 6545759.55 6545759.64 6545759.73 0.0543 0.0421

Mars 13210-04-24 07:40 G 6546026.75 6546026.82 6546026.89 0.1940 0.1554

Venus 13210-05-24 00:28 G 6546056.39 6546056.52 6546056.65 0.3684 0.0336

Venus 13214-05-26 02:09 G 6547519.49 6547519.59 6547519.69 0.3687 0.1595

Jupiter 13215-03-17 10:04 G 6547814.77 6547814.92 6547815.08 0.0486 0.0065

Venus 13215-12-08 00:57 G 6548080.42 6548080.54 6548080.65 0.3683 0.1787

Mars 13216-11-26 23:02 G 6548435.30 6548435.46 6548435.61 0.1592 0.0273

Moon 13219-03-19 10:33 G 6549277.83 6549277.94 6549278.05 0.2657 0.0799

Earth 13219-03-19 11:02 G 6549277.85 6549277.96 6549278.08 0.2652 0.0703 *

Saturn 13219-09-08 00:14 G 6549450.49 6549450.51 6549450.54 0.0275 0.0271

Mars 13219-09-14 14:09 G 6549456.97 6549457.09 6549457.20 0.1943 0.0602

Saturn 13219-12-05 14:52 G 6549539.01 6549539.12 6549539.25 0.0275 0.0165

Venus 13219-12-09 19:55 G 6549543.26 6549543.33 6549543.40 0.3688 0.2845

Saturn 13220-03-03 05:31 G 6549627.58 6549627.73 6549627.87 0.0275 0.0059

Saturn 13220-05-30 19:26 G 6549716.17 6549716.31 6549716.46 0.0275 0.0045

Saturn 13220-08-27 09:21 G 6549804.76 6549804.89 6549805.01 0.0275 0.0145

Saturn 13220-11-23 22:48 G 6549893.39 6549893.45 6549893.52 0.0275 0.0244

Jupiter 13221-02-18 12:43 G 6549979.97 6549980.03 6549980.10 0.0541 0.0475

Jupiter 13221-05-19 05:31 G 6550069.61 6550069.73 6550069.86 0.0543 0.0253

Moon 13221-09-17 15:50 G 6550191.03 6550191.16 6550191.29 0.2686 0.0921

Earth 13221-09-17 16:04 G 6550191.04 6550191.17 6550191.30 0.2679 0.0941 *

Mars 13226-04-19 04:19 G 6551865.53 6551865.68 6551865.82 0.1591 0.0413

Jupiter 13227-01-03 11:31 G 6552124.83 6552124.98 6552125.14 0.0486 0.0083

Mars 13229-02-03 19:55 G 6552887.21 6552887.33 6552887.45 0.1945 0.0402

Earth 13232-03-21 06:57 G 6554028.68 6554028.79 6554028.90 0.2653 0.0902

Moon 13232-03-21 07:11 G 6554028.69 6554028.80 6554028.91 0.2660 0.0933 *

Uranus 13232-07-19 19:11 G 6554149.22 6554149.30 6554149.39 0.0145 0.0125

Uranus 13232-10-16 01:11 G 6554237.44 6554237.55 6554237.68 0.0145 0.0100

Uranus 13233-01-12 07:40 G 6554325.68 6554325.82 6554325.97 0.0145 0.0074

Jupiter 13233-03-07 07:26 G 6554379.67 6554379.81 6554379.96 0.0542 0.0083

Uranus 13233-04-10 14:09 G 6554413.93 6554414.09 6554414.25 0.0145 0.0048

Uranus 13233-07-07 20:38 G 6554502.19 6554502.36 6554502.53 0.0145 0.0022

Uranus 13233-10-04 03:07 G 6554590.46 6554590.63 6554590.80 0.0144 0.0005

Uranus 13233-12-31 09:36 G 6554678.73 6554678.90 6554679.07 0.0144 0.0031

Uranus 13234-03-29 16:04 G 6554767.01 6554767.17 6554767.33 0.0144 0.0057

Saturn 13234-06-19 16:04 G 6554849.13 6554849.17 6554849.22 0.0283 0.0269

Uranus 13234-06-25 22:33 G 6554855.31 6554855.44 6554855.59 0.0144 0.0084

Saturn 13234-09-16 08:23 G 6554937.73 6554937.85 6554937.99 0.0283 0.0155

Uranus 13234-09-22 05:02 G 6554943.62 6554943.71 6554943.84 0.0144 0.0112

Saturn 13234-12-14 01:11 G 6555026.40 6555026.55 6555026.71 0.0283 0.0038

Uranus 13234-12-19 11:45 G 6555031.96 6555031.99 6555032.05 0.0144 0.0138

Saturn 13235-03-12 18:28 G 6555115.12 6555115.27 6555115.42 0.0283 0.0084

Saturn 13235-06-09 12:00 G 6555203.89 6555204.00 6555204.11 0.0283 0.0208

Mars 13235-09-09 09:50 G 6555295.80 6555295.91 6555296.02 0.1590 0.1072

Neptune 13236-01-25 04:33 G 6555433.65 6555433.69 6555433.75 0.0089 0.0084

Neptune 13236-04-22 06:28 G 6555521.71 6555521.77 6555521.86 0.0089 0.0077

Neptune 13236-07-19 08:38 G 6555609.77 6555609.86 6555609.96 0.0089 0.0068

Neptune 13236-10-15 10:33 G 6555697.84 6555697.94 6555698.06 0.0089 0.0061

Neptune 13237-01-11 12:43 G 6555785.91 6555786.03 6555786.16 0.0089 0.0053

Neptune 13237-04-09 14:38 G 6555873.99 6555874.11 6555874.25 0.0089 0.0045

Neptune 13237-07-06 16:33 G 6555962.06 6555962.19 6555962.34 0.0089 0.0037

Neptune 13237-10-02 18:28 G 6556050.14 6556050.27 6556050.42 0.0089 0.0030

Neptune 13237-12-29 20:38 G 6556138.21 6556138.36 6556138.51 0.0089 0.0021

Neptune 13238-03-27 22:33 G 6556226.29 6556226.44 6556226.59 0.0089 0.0014

Neptune 13238-06-24 00:28 G 6556314.37 6556314.52 6556314.67 0.0089 0.0006

Mars 13238-06-27 01:40 G 6556317.49 6556317.57 6556317.66 0.1947 0.1398

Neptune 13238-09-20 02:23 G 6556402.45 6556402.60 6556402.75 0.0089 0.0003

Jupiter 13238-10-22 13:11 G 6556434.92 6556435.05 6556435.20 0.0487 0.0225

Neptune 13238-12-17 04:19 G 6556490.53 6556490.68 6556490.83 0.0089 0.0010

Jupiter 13239-01-20 05:31 G 6556524.62 6556524.73 6556524.83 0.0486 0.0356

Neptune 13239-03-15 06:14 G 6556578.61 6556578.76 6556578.91 0.0089 0.0017

Neptune 13239-06-11 07:55 G 6556666.70 6556666.83 6556666.99 0.0089 0.0026

Neptune 13239-09-07 10:04 G 6556754.78 6556754.92 6556755.06 0.0089 0.0032

Neptune 13239-12-04 11:45 G 6556842.87 6556842.99 6556843.13 0.0089 0.0040

Neptune 13240-03-01 13:40 G 6556930.95 6556931.07 6556931.20 0.0089 0.0048

Neptune 13240-05-28 15:21 G 6557019.04 6557019.14 6557019.27 0.0089 0.0056

Neptune 13240-08-24 17:31 G 6557107.13 6557107.23 6557107.34 0.0089 0.0063

Neptune 13240-11-20 18:57 G 6557195.22 6557195.29 6557195.40 0.0089 0.0071

Neptune 13241-02-16 21:07 G 6557283.31 6557283.38 6557283.46 0.0089 0.0078

Neptune 13241-05-15 23:02 G 6557371.42 6557371.46 6557371.50 0.0089 0.0085

Jupiter 13244-12-24 08:38 G 6558689.72 6558689.86 6558690.01 0.0541 0.0105

Earth 13245-03-24 02:24 G 6558779.56 6558779.60 6558779.65 0.2654 0.2462

Moon 13245-03-24 03:07 G 6558779.61 6558779.63 6558779.66 0.2658 0.2589 *

Mars 13247-01-05 18:14 G 6559432.14 6559432.26 6559432.37 0.1594 0.1055

Venus 13248-10-31 23:02 G 6560097.42 6560097.46 6560097.50 0.3686 0.3442

Saturn 13249-04-23 16:48 G 6560271.09 6560271.20 6560271.31 0.0276 0.0193

Saturn 13249-07-21 07:12 G 6560359.66 6560359.80 6560359.95 0.0276 0.0087

Saturn 13249-10-17 21:36 G 6560448.25 6560448.40 6560448.55 0.0276 0.0019

Mars 13249-10-23 07:55 G 6560453.77 6560453.83 6560453.89 0.1940 0.1655

Saturn 13250-01-14 11:16 G 6560536.84 6560536.97 6560537.11 0.0276 0.0120

Saturn 13250-04-13 00:57 G 6560625.46 6560625.54 6560625.63 0.0276 0.0219

Jupiter 13250-08-10 14:38 G 6560745.02 6560745.11 6560745.22 0.0488 0.0370

Jupiter 13250-11-08 06:28 G 6560834.63 6560834.77 6560834.92 0.0486 0.0206

Moon 13252-03-16 19:26 G 6561329.24 6561329.31 6561329.37 0.2654 0.2189

Earth 13252-03-16 20:09 G 6561329.26 6561329.34 6561329.42 0.2651 0.1995 *

Venus 13254-05-17 17:45 G 6562121.15 6562121.24 6562121.34 0.3686 0.2013

Moon 13254-09-15 20:24 G 6562242.22 6562242.35 6562242.48 0.2686 0.0987

Earth 13254-09-15 21:07 G 6562242.25 6562242.38 6562242.51 0.2680 0.0824 *

Venus 13255-11-29 00:57 G 6562681.52 6562681.54 6562681.55 0.3685 0.3645

Mars 13256-05-27 23:16 G 6562862.32 6562862.47 6562862.62 0.1592 0.0361

Jupiter 13256-10-12 09:50 G 6562999.79 6562999.91 6563000.03 0.0541 0.0293

Jupiter 13257-01-10 01:55 G 6563089.49 6563089.58 6563089.66 0.0542 0.0424

Mars	13259-03-15 14:09 G	6563883.97	6563884.09	6563884.20	0.1943	0.0690
Venus	13259-12-01 12:14 G	6564144.89	6564145.01	6564145.12	0.3687	0.0648
Venus	13261-06-14 00:14 G	6564705.39	6564705.51	6564705.62	0.3684	0.1742
Jupiter	13262-08-27 07:55 G	6565144.67	6565144.83	6565144.99	0.0486	0.0060
Saturn	13264-02-03 11:45 G	6565669.87	6565669.99	6565670.12	0.0283	0.0173
Saturn	13264-05-02 04:33 G	6565758.54	6565758.69	6565758.85	0.0283	0.0055
Saturn	13264-07-29 21:36 G	6565847.25	6565847.40	6565847.56	0.0283	0.0066
Saturn	13264-10-26 15:07 G	6565936.01	6565936.13	6565936.25	0.0283	0.0188
Moon	13265-03-19 15:50 G	6566080.04	6566080.16	6566080.28	0.2658	0.0371
Earth	13265-03-19 16:19 G	6566080.06	6566080.18	6566080.30	0.2652	0.0374 *
Venus	13265-06-16 06:14 G	6566168.65	6566168.76	6566168.88	0.3687	0.0714
Mars	13265-10-18 04:48 G	6566292.55	6566292.70	6566292.85	0.1591	0.0315
Venus	13266-12-29 00:14 G	6566729.38	6566729.51	6566729.64	0.3684	0.0297
Moon	13267-09-18 21:50 G	6566993.29	6566993.41	6566993.52	0.2685	0.1427
Earth	13267-09-18 21:50 G	6566993.29	6566993.41	6566993.53	0.2679	0.1394 *
Jupiter	13268-07-31 10:19 G	6567309.87	6567309.93	6567310.00	0.0541	0.0486
Mars	13268-08-04 20:09 G	6567314.22	6567314.34	6567314.46	0.1945	0.0288
Jupiter	13268-10-29 03:07 G	6567399.50	6567399.63	6567399.76	0.0543	0.0241
Venus	13270-12-31 00:14 G	6568192.42	6568192.51	6568192.60	0.3688	0.1979
Venus	13272-07-14 00:43 G	6568753.43	6568753.53	6568753.63	0.3683	0.2429
Jupiter	13274-06-15 09:50 G	6569454.75	6569454.91	6569455.06	0.0487	0.0081
Uranus	13275-02-02 04:48 G	6569686.64	6569686.70	6569686.78	0.0134	0.0119
Mars	13275-03-10 10:19 G	6569722.81	6569722.93	6569723.05	0.1590	0.0978
Uranus	13275-05-01 08:38 G	6569774.78	6569774.86	6569774.97	0.0134	0.0101
Uranus	13275-07-28 12:28 G	6569862.92	6569863.02	6569863.15	0.0134	0.0083
Uranus	13275-10-24 16:33 G	6569951.07	6569951.19	6569951.32	0.0134	0.0064
Uranus	13276-01-20 20:24 G	6570039.22	6570039.35	6570039.49	0.0134	0.0046
Uranus	13276-04-18 00:14 G	6570127.37	6570127.51	6570127.65	0.0134	0.0028
Uranus	13276-07-15 04:04 G	6570215.52	6570215.67	6570215.81	0.0134	0.0011
Venus	13276-07-15 18:00 G	6570216.20	6570216.25	6570216.30	0.3688	0.3226

Uranus 13276-10-11 07:40 G 6570303.68 6570303.82 6570303.97 0.0134 0.0008

Uranus 13277-01-07 11:31 G 6570391.84 6570391.98 6570392.12 0.0134 0.0025

Uranus 13277-04-05 15:07 G 6570480.00 6570480.13 6570480.27 0.0134 0.0042

Uranus 13277-07-02 18:43 G 6570568.16 6570568.28 6570568.42 0.0134 0.0060

Uranus 13277-09-28 22:19 G 6570656.32 6570656.43 6570656.56 0.0134 0.0077

Mars 13277-12-26 01:40 G 6570744.48 6570744.57 6570744.66 0.1947 0.1311

Uranus 13277-12-26 02:09 G 6570744.49 6570744.59 6570744.69 0.0134 0.0094 *

Earth 13278-03-22 12:00 G 6570830.90 6570831.00 6570831.11 0.2653 0.1234

Moon 13278-03-22 12:14 G 6570830.91 6570831.01 6570831.12 0.2660 0.1257 *

Uranus 13278-03-24 05:45 G 6570832.67 6570832.74 6570832.82 0.0134 0.0111

Uranus 13278-06-20 09:21 G 6570920.85 6570920.89 6570920.93 0.0134 0.0128

Saturn 13278-09-10 18:43 G 6571003.19 6571003.28 6571003.37 0.0275 0.0220

Saturn 13278-12-08 09:21 G 6571091.75 6571091.89 6571092.03 0.0275 0.0114

Saturn 13279-03-06 23:31 G 6571180.33 6571180.48 6571180.63 0.0275 0.0011

Saturn 13279-06-03 13:26 G 6571268.93 6571269.06 6571269.20 0.0275 0.0093

Saturn 13279-08-31 03:07 G 6571357.53 6571357.63 6571357.74 0.0275 0.0193

Jupiter 13280-08-17 05:02 G 6571709.57 6571709.71 6571709.85 0.0542 0.0069

Jupiter 13286-04-03 11:16 G 6573764.83 6573764.97 6573765.11 0.0487 0.0225

Jupiter 13286-07-02 03:21 G 6573854.53 6573854.64 6573854.75 0.0485 0.0355

Mars 13286-07-06 18:43 G 6573859.17 6573859.28 6573859.38 0.1594 0.1152

Earth 13287-09-14 02:09 G 6574293.55 6574293.59 6574293.63 0.2681 0.2537

Mars 13289-04-23 07:55 G 6574880.78 6574880.83 6574880.88 0.1940 0.1738

Jupiter 13292-06-05 06:57 G 6576019.65 6576019.79 6576019.93 0.0542 0.0105

Saturn 13293-06-22 11:16 G 6576401.88 6576401.97 6576402.08 0.0283 0.0214

Saturn 13293-09-19 03:50 G 6576490.52 6576490.66 6576490.81 0.0283 0.0098

Saturn 13293-12-16 20:52 G 6576579.21 6576579.37 6576579.53 0.0283 0.0021

Saturn 13294-03-15 13:55 G 6576667.95 6576668.08 6576668.23 0.0283 0.0144

Saturn 13294-06-12 07:40 G 6576756.78 6576756.82 6576756.88 0.0283 0.0268

Mars 13295-11-26 23:45 G 6577289.34 6577289.49 6577289.63 0.1592 0.0452

Jupiter 13298-01-20 13:12 G 6578074.95 6578075.05 6578075.15 0.0487 0.0365

Moon 13298-03-18 00:28 G 6578131.43 6578131.52 6578131.62 0.2654 0.1691

Earth 13298-03-18 01:26 G 6578131.46 6578131.56 6578131.65 0.2651 0.1647 *

Jupiter 13298-04-20 04:48 G 6578164.56 6578164.70 6578164.85 0.0486 0.0209

Mars 13298-09-13 14:09 G 6578310.98 6578311.09 6578311.21 0.1943 0.0793

Moon 13300-09-17 02:09 G 6579044.45 6579044.59 6579044.72 0.2686 0.0387

Earth 13300-09-17 02:38 G 6579044.48 6579044.61 6579044.75 0.2680 0.0394 *

Jupiter 13304-03-25 08:09 G 6580329.72 6580329.84 6580329.97 0.0541 0.0288

Jupiter 13304-06-23 00:28 G 6580419.43 6580419.52 6580419.60 0.0542 0.0429

Mars 13305-04-19 05:02 G 6580719.56 6580719.71 6580719.87 0.1591 0.0230

Venus 13305-06-08 21:21 G 6580770.33 6580770.39 6580770.46 0.3686 0.2998

Saturn 13308-01-29 19:55 G 6581735.28 6581735.33 6581735.40 0.0276 0.0252

Mars 13308-02-04 20:24 G 6581741.22 6581741.35 6581741.47 0.1945 0.0200

Saturn 13308-04-27 10:48 G 6581823.82 6581823.95 6581824.08 0.0276 0.0144

Saturn 13308-07-25 01:12 G 6581912.40 6581912.55 6581912.70 0.0276 0.0039

Saturn 13308-10-21 15:21 G 6582000.99 6582001.14 6582001.28 0.0276 0.0064

Saturn 13309-01-18 05:02 G 6582089.60 6582089.71 6582089.83 0.0276 0.0166

Saturn 13309-04-16 18:43 G 6582178.24 6582178.28 6582178.32 0.0276 0.0264

Jupiter 13310-02-07 06:00 G 6582474.59 6582474.75 6582474.91 0.0487 0.0059

Venus 13310-12-23 15:50 G 6582794.06 6582794.16 6582794.27 0.3686 0.1600

Moon 13311-03-21 21:07 G 6582882.26 6582882.38 6582882.50 0.2659 0.0131

Earth 13311-03-21 21:21 G 6582882.27 6582882.39 6582882.51 0.2652 0.0024 *

Venus 13312-07-06 00:14 G 6583354.44 6583354.51 6583354.58 0.3685 0.3087

Earth 13313-09-20 03:36 G 6583795.55 6583795.65 6583795.75 0.2678 0.1845

Moon 13313-09-20 03:50 G 6583795.57 6583795.66 6583795.76 0.2685 0.1841 *

Mars 13314-09-09 10:48 G 6584149.82 6584149.95 6584150.08 0.1590 0.0887

Jupiter 13316-01-12 09:07 G 6584639.82 6584639.88 6584639.95 0.0540 0.0478

Jupiter 13316-04-11 01:40 G 6584729.45 6584729.57 6584729.70 0.0542 0.0247

Venus 13316-07-08 10:19 G 6584817.82 6584817.93 6584818.04 0.3687 0.0222

Uranus 13316-08-10 02:09 G 6584850.50 6584850.59 6584850.68 0.0145 0.0120

Uranus 13316-11-06 08:09 G 6584938.72 6584938.84 6584938.98 0.0145 0.0095

Uranus 13317-02-02 14:38 G 6585026.97 6585027.11 6585027.26 0.0145 0.0069

Uranus 13317-05-01 20:52 G 6585115.22 6585115.37 6585115.54 0.0145 0.0044

Mars 13317-06-27 01:55 G 6585171.49 6585171.58 6585171.68 0.1947 0.1207

Uranus 13317-07-29 03:21 G 6585203.48 6585203.64 6585203.81 0.0145 0.0017

Neptune 13317-10-21 07:26 G 6585287.79 6585287.81 6585287.87 0.0088 0.0085

Uranus 13317-10-25 09:50 G 6585291.74 6585291.91 6585292.08 0.0144 0.0010

Neptune 13318-01-17 09:50 G 6585375.85 6585375.91 6585376.00 0.0088 0.0077

Venus 13318-01-20 00:00 G 6585378.37 6585378.50 6585378.62 0.3684 0.1147

Uranus 13318-01-21 16:19 G 6585380.02 6585380.18 6585380.35 0.0144 0.0036

Neptune 13318-04-15 12:14 G 6585463.92 6585464.01 6585464.12 0.0088 0.0069

Uranus 13318-04-19 22:48 G 6585468.30 6585468.45 6585468.61 0.0144 0.0062

Neptune 13318-07-12 14:38 G 6585552.00 6585552.11 6585552.23 0.0088 0.0061

Uranus 13318-07-17 05:16 G 6585556.60 6585556.72 6585556.87 0.0144 0.0090

Neptune 13318-10-08 17:02 G 6585640.08 6585640.21 6585640.34 0.0088 0.0053

Uranus 13318-10-13 12:00 G 6585644.91 6585645.00 6585645.11 0.0144 0.0116

Neptune 13319-01-04 18:57 G 6585728.16 6585728.29 6585728.44 0.0088 0.0046

Uranus 13319-01-09 18:43 G 6585733.27 6585733.28 6585733.31 0.0144 0.0143

Neptune 13319-04-02 21:21 G 6585816.25 6585816.39 6585816.55 0.0088 0.0038

Neptune 13319-06-29 23:45 G 6585904.34 6585904.49 6585904.65 0.0088 0.0030

Neptune 13319-09-26 02:09 G 6585992.43 6585992.59 6585992.75 0.0088 0.0022

Neptune 13319-12-23 04:33 G 6586080.53 6586080.69 6586080.85 0.0088 0.0014

Neptune 13320-03-20 06:57 G 6586168.62 6586168.79 6586168.95 0.0088 0.0006

Neptune 13320-06-16 09:21 G 6586256.72 6586256.89 6586257.05 0.0088 0.0003

Neptune 13320-09-12 11:31 G 6586344.82 6586344.98 6586345.15 0.0088 0.0011

Neptune 13320-12-09 13:55 G 6586432.92 6586433.08 6586433.25 0.0088 0.0019

Neptune 13321-03-07 16:19 G 6586521.03 6586521.18 6586521.34 0.0088 0.0027

Neptune 13321-06-03 18:43 G 6586609.14 6586609.28 6586609.44 0.0088 0.0035

Neptune 13321-08-30 21:21 G 6586697.24 6586697.39 6586697.53 0.0088 0.0043

Jupiter 13321-11-26 07:40 G 6586784.66 6586784.82 6586784.97 0.0487 0.0085

Neptune 13321-11-26 23:31 G 6586785.36 6586785.48 6586785.62 0.0088 0.0052

Venus 13322-01-22 04:19 G 6586841.58 6586841.68 6586841.79 0.3687 0.1099

Neptune 13322-02-23 01:55 G 6586873.47 6586873.58 6586873.71 0.0088 0.0060

Neptune 13322-05-22 04:33 G 6586961.59 6586961.69 6586961.80 0.0088 0.0068

Neptune 13322-08-18 06:43 G 6587049.72 6587049.78 6587049.88 0.0088 0.0077

Saturn 13322-11-10 14:24 G 6587134.02 6587134.10 6587134.19 0.0283 0.0233

Neptune 13322-11-14 09:21 G 6587137.86 6587137.89 6587137.94 0.0088 0.0085

Saturn 13323-02-07 06:57 G 6587222.65 6587222.79 6587222.94 0.0283 0.0118

Saturn 13323-05-07 00:00 G 6587311.34 6587311.50 6587311.65 0.0283 0.0008

Saturn 13323-08-03 17:02 G 6587400.07 6587400.21 6587400.36 0.0283 0.0123

Venus 13323-08-06 00:00 G 6587402.37 6587402.50 6587402.63 0.3683 0.0921

Saturn 13323-10-31 10:48 G 6587488.87 6587488.95 6587489.03 0.0283 0.0247

Mars 13324-01-30 16:33 G 6587580.16 6587580.19 6587580.23 0.1589 0.1534

Earth 13324-03-23 17:02 G 6587633.12 6587633.21 6587633.31 0.2653 0.1567

Moon 13324-03-23 17:31 G 6587633.13 6587633.23 6587633.32 0.2659 0.1648 *

Mars 13326-01-05 18:57 G 6588286.20 6588286.29 6588286.39 0.1594 0.1249

Venus 13327-08-07 22:19 G 6588865.34 6588865.43 6588865.51 0.3688 0.2369

Jupiter 13328-01-29 02:38 G 6589039.47 6589039.61 6589039.76 0.0542 0.0060

Mars 13328-10-23 08:09 G 6589307.80 6589307.84 6589307.87 0.1940 0.1836

Venus 13329-02-19 00:43 G 6589426.46 6589426.53 6589426.60 0.3683 0.3101

Venus 13333-02-20 16:04 G 6590889.15 6590889.17 6590889.19 0.3688 0.3604

Jupiter 13333-09-14 09:36 G 6591094.76 6591094.90 6591095.04 0.0487 0.0222

Moon 13333-09-15 06:57 G 6591095.71 6591095.79 6591095.87 0.2684 0.2170

Earth 13333-09-15 07:55 G 6591095.75 6591095.83 6591095.91 0.2681 0.2106 *

Jupiter 13333-12-13 01:40 G 6591184.46 6591184.57 6591184.67 0.0486 0.0358

Mars 13335-05-29 00:14 G 6591716.36 6591716.51 6591716.65 0.1592 0.0551

Pluto 13337-01-14 04:33 G 6592312.65 6592312.69 6592312.76 0.0071 0.0065

Pluto 13337-04-12 05:16 G 6592400.65 6592400.72 6592400.82 0.0071 0.0056

Pluto 13337-07-09 06:14 G 6592488.66 6592488.76 6592488.86 0.0071 0.0046

Saturn 13337-09-14 13:12 G 6592555.93 6592556.05 6592556.17 0.0275 0.0169

Pluto 13337-10-05 06:57 G 6592576.68 6592576.79 6592576.91 0.0071 0.0037

Saturn 13337-12-12 03:36 G 6592644.50 6592644.65 6592644.80 0.0275 0.0064

Pluto 13338-01-01 07:40 G 6592664.70 6592664.82 6592664.95 0.0071 0.0028

Saturn 13338-03-10 17:45 G 6592733.09 6592733.24 6592733.39 0.0275 0.0039

Mars 13338-03-15 14:24 G 6592737.99 6592738.10 6592738.21 0.1943 0.0885

Pluto 13338-03-30 08:24 G 6592752.72 6592752.85 6592752.98 0.0071 0.0019

Saturn 13338-06-07 07:26 G 6592821.69 6592821.81 6592821.94 0.0275 0.0141

Pluto 13338-06-26 09:07 G 6592840.75 6592840.88 6592841.01 0.0072 0.0010

Saturn 13338-09-03 21:07 G 6592910.31 6592910.38 6592910.45 0.0275 0.0239

Pluto 13338-09-22 09:50 G 6592928.78 6592928.91 6592929.05 0.0072 0.0001

Pluto 13338-12-19 10:33 G 6593016.81 6593016.94 6593017.08 0.0072 0.0009

Pluto 13339-03-17 11:16 G 6593104.84 6593104.97 6593105.10 0.0072 0.0019

Pluto 13339-06-13 11:45 G 6593192.88 6593192.99 6593193.13 0.0072 0.0029

Pluto 13339-09-09 12:43 G 6593280.92 6593281.03 6593281.15 0.0072 0.0038

Jupiter 13339-11-17 04:33 G 6593349.55 6593349.69 6593349.83 0.0542 0.0118

Pluto 13339-12-06 13:26 G 6593368.97 6593369.06 6593369.16 0.0072 0.0048

Pluto 13340-03-03 13:55 G 6593457.02 6593457.08 6593457.18 0.0072 0.0059

Pluto 13340-05-30 14:38 G 6593545.09 6593545.11 6593545.17 0.0072 0.0069

Moon 13344-03-19 05:45 G 6594933.64 6594933.74 6594933.84 0.2655 0.1467

Earth 13344-03-19 06:28 G 6594933.67 6594933.77 6594933.88 0.2651 0.1299 *

Mars 13344-10-18 05:31 G 6595146.58 6595146.73 6595146.88 0.1591 0.0134

Jupiter 13345-07-03 11:16 G 6595404.87 6595404.97 6595405.08 0.0487 0.0364

Jupiter 13345-10-01 02:52 G 6595494.48 6595494.62 6595494.76 0.0486 0.0209

Moon 13346-09-18 07:55 G 6595846.69 6595846.83 6595846.97 0.2686 0.0102

Earth 13346-09-18 08:24 G 6595846.71 6595846.85 6595846.99 0.2679 0.0070 *

Mars 13347-08-05 20:24 G 6596168.22 6596168.35 6596168.47 0.1945 0.0113

Jupiter 13351-09-05 06:14 G 6597659.64 6597659.76 6597659.89 0.0541 0.0292

Jupiter 13351-12-03 22:33 G 6597749.36 6597749.44 6597749.53 0.0543 0.0428

Saturn 13352-03-29 14:09 G 6597866.06 6597866.09 6597866.13 0.0284 0.0274

Saturn 13352-06-26 06:28 G 6597954.64 6597954.77 6597954.90 0.0284 0.0159

Saturn 13352-09-22 23:16 G 6598043.31 6598043.47 6598043.62 0.0284 0.0042

Saturn 13352-12-20 16:19 G 6598132.02 6598132.18 6598132.33 0.0284 0.0078

Saturn 13353-03-19 09:36 G 6598220.79 6598220.90 6598221.02 0.0283 0.0202

Mars 13354-03-10 11:02 G 6598576.83 6598576.96 6598577.09 0.1590 0.0801

Mars 13356-12-26 02:09 G 6599598.49 6599598.59 6599598.69 0.1947 0.1105

Moon 13357-03-22 02:24 G 6599684.48 6599684.60 6599684.72 0.2660 0.0378

Earth 13357-03-22 02:24 G 6599684.48 6599684.60 6599684.72 0.2652 0.0334 *

Jupiter 13357-07-20 04:19 G 6599804.53 6599804.68 6599804.84 0.0486 0.0065

Uranus 13359-02-23 11:31 G 6600387.92 6600387.98 6600388.06 0.0134 0.0116

Uranus 13359-05-22 15:21 G 6600476.05 6600476.14 6600476.25 0.0134 0.0098

Uranus 13359-08-18 19:12 G 6600564.19 6600564.30 6600564.43 0.0134 0.0080

Earth 13359-09-21 09:21 G 6600597.82 6600597.89 6600597.96 0.2678 0.2294

Moon 13359-09-21 09:50 G 6600597.86 6600597.91 6600597.96 0.2685 0.2455 *

Uranus 13359-11-14 23:16 G 6600652.34 6600652.47 6600652.60 0.0134 0.0061

Uranus 13360-02-11 03:07 G 6600740.49 6600740.63 6600740.77 0.0134 0.0044

Uranus 13360-05-09 06:57 G 6600828.65 6600828.79 6600828.93 0.0134 0.0026

Uranus 13360-08-05 10:48 G 6600916.80 6600916.95 6600917.09 0.0134 0.0008

Uranus 13360-11-01 14:24 G 6601004.96 6601005.10 6601005.25 0.0134 0.0010

Uranus 13361-01-28 18:14 G 6601093.12 6601093.26 6601093.40 0.0134 0.0027

Uranus 13361-04-26 21:50 G 6601181.28 6601181.41 6601181.55 0.0134 0.0045

Uranus 13361-07-24 01:40 G 6601269.44 6601269.57 6601269.69 0.0134 0.0062

Uranus 13361-10-20 05:02 G 6601357.61 6601357.71 6601357.83 0.0134 0.0080

Venus 13362-01-13 19:40 G 6601443.24 6601443.32 6601443.40 0.3686 0.2566

Uranus 13362-01-16 08:52 G 6601445.78 6601445.87 6601445.97 0.0134 0.0097

Uranus 13362-04-14 12:28 G 6601533.95 6601534.02 6601534.10 0.0134 0.0114

Uranus 13362-07-11 16:04 G 6601622.15 6601622.17 6601622.20 0.0134 0.0131

Jupiter 13363-06-24 07:40 G 6601969.75 6601969.82 6601969.89 0.0540 0.0473

Mars 13363-07-31 17:02 G 6602007.15 6602007.21 6602007.27 0.1589 0.1446

Jupiter 13363-09-22 00:14 G 6602059.39 6602059.51 6602059.64 0.0542 0.0252

Mars 13365-07-06 19:26 G 6602713.23 6602713.31 6602713.39 0.1594 0.1344

Saturn 13367-02-01 14:09 G 6603287.99 6603288.09 6603288.20 0.0276 0.0203

Saturn	13367-05-01 04:48 G	6603376.56	6603376.70	6603376.84	0.0276	0.0096	
Saturn	13367-07-28 19:12 G	6603465.15	6603465.30	6603465.45	0.0276	0.0011	
Venus	13367-07-30 14:09 G	6603466.98	6603467.09	6603467.20	0.3687	0.1168	
Saturn	13367-10-25 08:52 G	6603553.74	6603553.87	6603554.01	0.0276	0.0111	
Saturn	13368-01-21 22:48 G	6603642.35	6603642.45	6603642.54	0.0276	0.0210	
Mars	13368-04-23 08:24 G	6603734.85	6603734.85	6603734.85	0.1940	0.1940	
Venus	13369-02-10 00:00 G	6604027.40	6604027.50	6604027.59	0.3684	0.2509	
Jupiter	13369-05-08 05:45 G	6604114.58	6604114.74	6604114.89	0.0487	0.0085	
Earth	13370-03-24 22:19 G	6604435.34	6604435.43	6604435.51	0.2654	0.1903	
Moon	13370-03-24 22:48 G	6604435.37	6604435.45	6604435.53	0.2659	0.1924	*
Venus	13373-02-12 08:24 G	6605490.74	6605490.85	6605490.97	0.3687	0.0224	
Venus	13374-08-26 23:31 G	6606051.35	6606051.48	6606051.62	0.3684	0.0542	
Mars	13374-11-27 00:43 G	6606143.39	6606143.53	6606143.67	0.1592	0.0646	
Jupiter	13375-07-11 01:40 G	6606369.42	6606369.57	6606369.71	0.0542	0.0070	
Earth	13377-03-17 15:36 G	6606985.13	6606985.15	6606985.17	0.2651	0.2610	
Mars	13377-09-13 14:24 G	6607165.00	6607165.10	6607165.21	0.1943	0.0984	
Venus	13378-08-29 02:38 G	6607514.50	6607514.61	6607514.71	0.3687	0.1501	
Moon	13379-09-16 12:43 G	6607897.93	6607898.03	6607898.13	0.2685	0.1855	
Earth	13379-09-16 13:40 G	6607897.96	6607898.07	6607898.17	0.2681	0.1674	*
Venus	13380-03-12 00:00 G	6608075.37	6608075.50	6608075.62	0.3683	0.1572	
Jupiter	13381-02-24 07:26 G	6608424.67	6608424.81	6608424.95	0.0487	0.0225	
Jupiter	13381-05-24 23:16 G	6608514.37	6608514.47	6608514.58	0.0486	0.0355	
Saturn	13381-11-13 09:21 G	6608686.77	6608686.89	6608687.01	0.0283	0.0181	
Saturn	13382-02-10 01:55 G	6608775.43	6608775.58	6608775.74	0.0283	0.0064	
Saturn	13382-05-09 18:57 G	6608864.13	6608864.29	6608864.45	0.0283	0.0056	
Saturn	13382-08-06 12:14 G	6608952.89	6608953.01	6608953.14	0.0283	0.0179	
Venus	13384-03-13 20:24 G	6609538.28	6609538.35	6609538.42	0.3688	0.2757	
Mars	13384-04-18 06:00 G	6609573.60	6609573.75	6609573.90	0.1591	0.0038	
Mars	13387-02-03 20:24 G	6610595.23	6610595.35	6610595.48	0.1945	0.0062	
Jupiter	13387-04-29 02:09 G	6610679.45	6610679.59	6610679.73	0.0542	0.0127	

Moon 13390-03-20 11:16 G 6611735.85 6611735.97 6611736.08 0.2656 0.0984

Earth 13390-03-20 11:45 G 6611735.88 6611735.99 6611736.10 0.2652 0.0954 *

Moon 13392-09-18 13:55 G 6612648.95 6612649.08 6612649.21 0.2686 0.0541

Earth 13392-09-18 14:09 G 6612648.96 6612649.09 6612649.23 0.2679 0.0504 *

Jupiter 13392-12-13 09:36 G 6612734.80 6612734.90 6612735.00 0.0488 0.0361

Jupiter 13393-03-13 01:12 G 6612824.40 6612824.55 6612824.69 0.0486 0.0213

Mars 13393-09-08 11:31 G 6613003.85 6613003.98 6613004.12 0.1590 0.0707

Saturn 13396-06-20 16:48 G 6614020.12 6614020.20 6614020.29 0.0275 0.0225

Mars 13396-06-26 02:09 G 6614025.49 6614025.59 6614025.70 0.1947 0.1012

Saturn 13396-09-17 07:26 G 6614108.67 6614108.81 6614108.95 0.0275 0.0119

Saturn 13396-12-14 21:50 G 6614197.26 6614197.41 6614197.56 0.0275 0.0016

Saturn 13397-03-13 11:45 G 6614285.85 6614285.99 6614286.13 0.0275 0.0087

Saturn 13397-06-10 01:26 G 6614374.45 6614374.56 6614374.67 0.0275 0.0187

Jupiter 13399-02-15 03:50 G 6614989.54 6614989.66 6614989.78 0.0541 0.0304

Jupiter 13399-05-15 20:09 G 6615079.25 6615079.34 6615079.43 0.0543 0.0416

Uranus 13400-06-04 02:24 G 6615463.58 6615463.60 6615463.65 0.0145 0.0141

Neptune 13400-07-27 02:38 G 6615516.58 6615516.61 6615516.63 0.0089 0.0088

Uranus 13400-08-31 08:38 G 6615551.78 6615551.86 6615551.97 0.0145 0.0116

Neptune 13400-10-23 04:33 G 6615604.62 6615604.69 6615604.76 0.0089 0.0080

Uranus 13400-11-27 15:07 G 6615640.00 6615640.13 6615640.27 0.0145 0.0090

Neptune 13401-01-19 06:43 G 6615692.69 6615692.78 6615692.87 0.0089 0.0072

Uranus 13401-02-23 21:21 G 6615728.25 6615728.39 6615728.55 0.0145 0.0065

Neptune 13401-04-17 08:24 G 6615780.76 6615780.85 6615780.97 0.0089 0.0064

Uranus 13401-05-23 03:50 G 6615816.50 6615816.66 6615816.83 0.0145 0.0038

Neptune 13401-07-14 10:19 G 6615868.83 6615868.93 6615869.06 0.0089 0.0057

Uranus 13401-08-19 10:19 G 6615904.76 6615904.93 6615905.10 0.0145 0.0012

Neptune 13401-10-10 12:28 G 6615956.90 6615957.02 6615957.16 0.0089 0.0048

Uranus 13401-11-15 16:48 G 6615993.03 6615993.20 6615993.37 0.0144 0.0014

Neptune 13402-01-06 14:24 G 6616044.98 6616045.10 6616045.25 0.0089 0.0041

Uranus 13402-02-11 23:16 G 6616081.31 6616081.47 6616081.63 0.0144 0.0040

Neptune 13402-04-04 16:33 G 6616133.05 6616133.19 6616133.34 0.0089 0.0032

Uranus 13402-05-11 05:31 G 6616169.59 6616169.73 6616169.90 0.0144 0.0068

Neptune 13402-07-01 18:28 G 6616221.13 6616221.27 6616221.42 0.0089 0.0025

Uranus 13402-08-07 12:28 G 6616257.89 6616258.02 6616258.15 0.0144 0.0094

Neptune 13402-09-27 20:38 G 6616309.21 6616309.36 6616309.51 0.0089 0.0017

Uranus 13402-11-03 18:57 G 6616346.20 6616346.29 6616346.39 0.0144 0.0121

Neptune 13402-12-24 22:33 G 6616397.29 6616397.44 6616397.59 0.0089 0.0009

Mars 13403-01-30 17:16 G 6616434.15 6616434.22 6616434.30 0.1589 0.1362

Neptune 13403-03-23 00:28 G 6616485.37 6616485.52 6616485.67 0.0089 0.0001

Moon 13403-03-24 07:40 G 6616486.70 6616486.82 6616486.93 0.2659 0.0594

Earth 13403-03-24 07:40 G 6616486.70 6616486.82 6616486.93 0.2653 0.0663 *

Neptune 13403-06-19 02:24 G 6616573.45 6616573.60 6616573.75 0.0089 0.0007

Neptune 13403-09-15 04:19 G 6616661.53 6616661.68 6616661.83 0.0089 0.0014

Neptune 13403-12-12 06:00 G 6616749.61 6616749.75 6616749.91 0.0089 0.0023

Neptune 13404-03-09 08:09 G 6616837.70 6616837.84 6616837.98 0.0089 0.0030

Neptune 13404-06-05 09:50 G 6616925.78 6616925.91 6616926.05 0.0089 0.0037

Neptune 13404-09-01 11:45 G 6617013.87 6617013.99 6617014.12 0.0089 0.0045

Neptune 13404-11-28 13:26 G 6617101.95 6617102.06 6617102.19 0.0089 0.0053

Jupiter 13404-12-31 02:38 G 6617134.45 6617134.61 6617134.77 0.0486 0.0066

Mars 13405-01-05 19:55 G 6617140.27 6617140.33 6617140.39 0.1594 0.1441

Neptune 13405-02-24 15:36 G 6617190.04 6617190.15 6617190.26 0.0089 0.0060

Neptune 13405-05-23 17:16 G 6617278.13 6617278.22 6617278.33 0.0089 0.0067

Neptune 13405-08-19 19:12 G 6617366.23 6617366.30 6617366.39 0.0089 0.0075

Neptune 13405-11-15 20:52 G 6617454.33 6617454.37 6617454.44 0.0089 0.0082

Jupiter 13410-12-05 05:31 G 6619299.67 6619299.73 6619299.80 0.0541 0.0479

Jupiter 13411-03-04 22:19 G 6619389.31 6619389.43 6619389.56 0.0543 0.0249

Saturn 13411-04-03 08:38 G 6619418.78 6619418.86 6619418.97 0.0284 0.0223

Saturn 13411-07-01 01:26 G 6619507.41 6619507.56 6619507.70 0.0284 0.0107

Saturn 13411-09-27 18:14 G 6619596.10 6619596.26 6619596.42 0.0284 0.0013

Saturn 13411-12-25 11:16 G 6619684.83 6619684.97 6619685.12 0.0284 0.0134

Saturn 13412-03-23 04:48 G 6619773.65 6619773.70 6619773.78 0.0284 0.0258

Venus 13413-02-04 23:16 G 6620092.44 6620092.47 6620092.49 0.3686 0.3564

Mars 13414-05-29 00:57 G 6620570.40 6620570.54 6620570.68 0.1592 0.0735

Earth 13416-03-26 03:21 G 6621237.57 6621237.64 6621237.70 0.2654 0.2230

Moon 13416-03-26 03:50 G 6621237.62 6621237.66 6621237.71 0.2658 0.2391 *

Jupiter 13416-10-19 04:19 G 6621444.52 6621444.68 6621444.84 0.0487 0.0077

Mars 13417-03-15 14:38 G 6621592.01 6621592.11 6621592.21 0.1943 0.1078

Venus 13418-08-21 18:00 G 6622116.16 6622116.25 6622116.34 0.3686 0.2133

Pluto 13422-06-09 19:12 G 6623504.29 6623504.30 6623504.35 0.0073 0.0073

Pluto 13422-09-05 21:50 G 6623592.30 6623592.41 6623592.54 0.0073 0.0058

Pluto 13422-12-03 00:00 G 6623680.36 6623680.50 6623680.67 0.0073 0.0043

Jupiter 13422-12-22 00:14 G 6623699.36 6623699.51 6623699.65 0.0542 0.0075

Pluto 13423-03-01 02:24 G 6623768.44 6623768.60 6623768.79 0.0073 0.0029

Moon 13423-03-19 19:55 G 6623787.28 6623787.33 6623787.38 0.2651 0.2368

Earth 13423-03-19 20:52 G 6623787.30 6623787.37 6623787.43 0.2651 0.2258 *

Pluto 13423-05-28 05:02 G 6623856.52 6623856.71 6623856.90 0.0073 0.0014

Pluto 13423-08-24 07:12 G 6623944.61 6623944.80 6623945.00 0.0073 0.0002

Mars 13423-10-19 06:28 G 6624000.61 6624000.77 6624000.92 0.1591 0.0065

Pluto 13423-11-20 09:36 G 6624032.71 6624032.90 6624033.09 0.0073 0.0014

Pluto 13424-02-16 11:45 G 6624120.82 6624120.99 6624121.17 0.0073 0.0028

Venus 13424-03-06 12:28 G 6624139.91 6624140.02 6624140.13 0.3687 0.0746

Pluto 13424-05-14 13:55 G 6624208.93 6624209.08 6624209.24 0.0072 0.0042

Pluto 13424-08-10 15:50 G 6624297.06 6624297.16 6624297.30 0.0072 0.0056

Pluto 13424-11-06 18:00 G 6624385.22 6624385.25 6624385.32 0.0072 0.0069

Moon 13425-09-17 18:28 G 6624700.15 6624700.27 6624700.38 0.2685 0.1336

Earth 13425-09-17 19:26 G 6624700.19 6624700.31 6624700.43 0.2680 0.1249 *

Venus 13425-09-17 23:31 G 6624700.37 6624700.48 6624700.59 0.3684 0.1914 *

Saturn 13425-11-08 17:31 G 6624752.19 6624752.23 6624752.28 0.0276 0.0261

Saturn 13426-02-05 08:09 G 6624840.72 6624840.84 6624840.97 0.0276 0.0154

Saturn 13426-05-04 22:33 G 6624929.30 6624929.44 6624929.59 0.0276 0.0050

Saturn 13426-08-01 12:43 G 6625017.89 6625018.03 6625018.18 0.0276 0.0054

Mars 13426-08-05 20:38 G 6625022.24 6625022.36 6625022.49 0.1945 0.0119

Saturn 13426-10-29 02:38 G 6625106.49 6625106.61 6625106.73 0.0276 0.0155

Saturn 13427-01-25 16:04 G 6625195.12 6625195.17 6625195.23 0.0276 0.0254

Jupiter 13428-08-07 05:31 G 6625754.60 6625754.73 6625754.87 0.0487 0.0224

Jupiter 13428-11-04 21:36 G 6625844.29 6625844.40 6625844.51 0.0486 0.0356

Venus 13429-09-20 06:43 G 6626163.67 6626163.78 6626163.89 0.3687 0.0606

Venus 13431-04-03 23:16 G 6626724.34 6626724.47 6626724.61 0.3683 0.0163

Mars 13433-03-10 12:00 G 6627430.86 6627431.00 6627431.14 0.1590 0.0616

Jupiter 13434-10-10 01:26 G 6628009.42 6628009.56 6628009.70 0.0541 0.0111

Venus 13435-04-06 00:43 G 6628187.43 6628187.53 6628187.62 0.3688 0.1896

Mars 13435-12-27 02:24 G 6628452.49 6628452.60 6628452.71 0.1947 0.0914

Moon 13436-03-21 16:19 G 6628538.07 6628538.18 6628538.30 0.2658 0.0716

Earth 13436-03-21 16:48 G 6628538.09 6628538.20 6628538.32 0.2652 0.0614 *

Venus 13436-10-17 23:45 G 6628748.39 6628748.49 6628748.60 0.3683 0.2225

Moon 13438-09-20 19:55 G 6629451.20 6629451.33 6629451.46 0.2686 0.0888

Earth 13438-09-20 19:55 G 6629451.20 6629451.33 6629451.46 0.2679 0.0945 *

Jupiter 13440-05-26 07:40 G 6630064.71 6630064.82 6630064.92 0.0488 0.0363

Saturn 13440-08-20 11:02 G 6630150.90 6630150.96 6630151.05 0.0283 0.0247

Jupiter 13440-08-23 23:02 G 6630154.32 6630154.46 6630154.61 0.0486 0.0212

Venus 13440-10-19 18:28 G 6630211.21 6630211.27 6630211.32 0.3688 0.3143

Saturn 13440-11-17 03:36 G 6630239.51 6630239.65 6630239.79 0.0283 0.0131

Saturn 13441-02-13 20:24 G 6630328.19 6630328.35 6630328.51 0.0283 0.0014

Saturn 13441-05-13 13:40 G 6630416.92 6630417.07 6630417.22 0.0283 0.0108

Saturn 13441-08-10 07:12 G 6630505.71 6630505.80 6630505.89 0.0283 0.0232

Mars 13442-07-31 17:45 G 6630861.15 6630861.24 6630861.33 0.1589 0.1267

Uranus 13442-12-18 14:24 G 6631001.08 6631001.10 6631001.13 0.0134 0.0131

Uranus 13443-03-16 18:14 G 6631089.19 6631089.26 6631089.35 0.0134 0.0113

Uranus 13443-06-12 22:04 G 6631177.33 6631177.42 6631177.54 0.0134 0.0095

Uranus 13443-09-09 02:09 G 6631265.48 6631265.59 6631265.72 0.0134 0.0076

Uranus 13443-12-06 06:00 G 6631353.62 6631353.75 6631353.89 0.0134 0.0058

Uranus 13444-03-03 09:50 G 6631441.78 6631441.91 6631442.05 0.0134 0.0040

Uranus 13444-05-30 13:40 G 6631529.93 6631530.07 6631530.22 0.0134 0.0023

Mars 13444-07-06 20:24 G 6631567.32 6631567.35 6631567.39 0.1594 0.1541

Uranus 13444-08-26 17:31 G 6631618.09 6631618.23 6631618.38 0.0134 0.0005

Uranus 13444-11-22 21:21 G 6631706.24 6631706.39 6631706.53 0.0134 0.0013

Uranus 13445-02-19 00:57 G 6631794.40 6631794.54 6631794.68 0.0134 0.0031

Uranus 13445-05-18 04:48 G 6631882.56 6631882.70 6631882.83 0.0134 0.0048

Mars 13445-05-18 07:55 G 6631882.82 6631882.83 6631882.84 0.1948 0.1941 *

Uranus 13445-08-14 08:24 G 6631970.73 6631970.85 6631970.98 0.0134 0.0066

Uranus 13445-11-10 12:00 G 6632058.90 6632059.00 6632059.12 0.0134 0.0083

Uranus 13446-02-06 15:50 G 6632147.07 6632147.16 6632147.25 0.0134 0.0100

Uranus 13446-05-05 19:26 G 6632235.24 6632235.31 6632235.38 0.0134 0.0117

Jupiter 13446-07-29 01:40 G 6632319.45 6632319.57 6632319.69 0.0541 0.0310

Jupiter 13446-10-26 18:00 G 6632409.16 6632409.25 6632409.35 0.0543 0.0411

Earth 13449-03-24 12:43 G 6633288.92 6633289.03 6633289.14 0.2653 0.0995

Moon 13449-03-24 12:43 G 6633288.93 6633289.03 6633289.14 0.2659 0.1073 *

Jupiter 13452-06-12 00:57 G 6634464.38 6634464.54 6634464.70 0.0486 0.0072

Mars 13453-11-27 01:26 G 6634997.43 6634997.56 6634997.69 0.1592 0.0836

Saturn 13455-06-25 10:48 G 6635572.84 6635572.95 6635573.07 0.0275 0.0176

Saturn 13455-09-22 01:26 G 6635661.41 6635661.56 6635661.70 0.0275 0.0071

Saturn 13455-12-19 15:36 G 6635750.00 6635750.15 6635750.30 0.0275 0.0032

Saturn 13456-03-17 05:16 G 6635838.60 6635838.72 6635838.85 0.0275 0.0133

Saturn 13456-06-13 18:57 G 6635927.21 6635927.29 6635927.37 0.0275 0.0232

Mars 13456-09-13 14:38 G 6636019.02 6636019.11 6636019.21 0.1943 0.1177

Jupiter 13458-05-17 03:07 G 6636629.57 6636629.63 6636629.69 0.0541 0.0491

Jupiter 13458-08-14 20:09 G 6636719.21 6636719.34 6636719.46 0.0543 0.0239

Earth 13462-03-27 08:24 G 6638039.82 6638039.85 6638039.88 0.2654 0.2562

Moon 13462-03-27 09:07 G 6638039.86 6638039.88 6638039.90 0.2658 0.2592 *

Mars 13463-04-19 06:43 G 6638427.63 6638427.78 6638427.93 0.1591 0.0144

Jupiter 13464-03-31 02:38 G 6638774.45 6638774.61 6638774.77 0.0487 0.0073

Mars 13466-02-03 20:38 G 6639449.24 6639449.36 6639449.48 0.1945 0.0189

Moon 13469-03-20 01:12 G 6640589.47 6640589.55 6640589.63 0.2653 0.2010

Earth 13469-03-20 01:55 G 6640589.50 6640589.58 6640589.67 0.2651 0.1906 *

Venus 13469-09-11 21:36 G 6640765.34 6640765.40 6640765.46 0.3686 0.3118

Saturn 13470-04-06 03:07 G 6640971.51 6640971.63 6640971.76 0.0284 0.0173

Jupiter 13470-06-02 22:19 G 6641029.28 6641029.43 6641029.57 0.0542 0.0072

Saturn 13470-07-03 19:40 G 6641060.17 6641060.32 6641060.48 0.0284 0.0057

Saturn 13470-09-30 12:43 G 6641148.88 6641149.03 6641149.19 0.0284 0.0064

Saturn 13470-12-28 06:00 G 6641237.63 6641237.75 6641237.88 0.0284 0.0186

Moon 13471-09-19 00:14 G 6641502.38 6641502.51 6641502.64 0.2685 0.0938

Earth 13471-09-19 00:57 G 6641502.41 6641502.54 6641502.67 0.2680 0.0813 *

Mars 13472-09-08 12:14 G 6641857.87 6641858.01 6641858.16 0.1590 0.0527

Venus 13475-03-28 16:19 G 6642789.08 6642789.18 6642789.28 0.3686 0.1702

Mars 13475-06-27 02:38 G 6642879.50 6642879.61 6642879.72 0.1947 0.0803

Jupiter 13476-01-18 04:33 G 6643084.55 6643084.69 6643084.83 0.0487 0.0214

Jupiter 13476-04-16 20:09 G 6643174.24 6643174.34 6643174.45 0.0486 0.0366

Venus 13476-10-08 23:45 G 6643349.43 6643349.49 6643349.55 0.3684 0.3243

Venus 13480-10-11 10:33 G 6644812.83 6644812.94 6644813.06 0.3687 0.0343

Mars 13482-01-29 18:14 G 6645288.16 6645288.26 6645288.36 0.1589 0.1181

Jupiter 13482-03-22 00:00 G 6645339.36 6645339.50 6645339.64 0.0541 0.0105

Moon 13482-03-22 21:36 G 6645340.28 6645340.40 6645340.52 0.2658 0.0299

Earth 13482-03-22 22:04 G 6645340.30 6645340.42 6645340.54 0.2652 0.0267 *

Neptune 13482-04-22 05:02 G 6645370.71 6645370.71 6645370.74 0.0088 0.0088

Venus 13482-04-24 23:16 G 6645373.35 6645373.47 6645373.59 0.3684 0.1313

Neptune 13482-07-19 07:12 G 6645458.75 6645458.80 6645458.88 0.0088 0.0080

Neptune 13482-10-15 09:36 G 6645546.82 6645546.90 6645547.00 0.0088 0.0072

Neptune 13483-01-11 12:00 G 6645634.89 6645635.00 6645635.11 0.0088 0.0064

Neptune 13483-04-09 13:55 G 6645722.97 6645723.08 6645723.22 0.0088 0.0057

Neptune 13483-07-06 16:19 G 6645811.06 6645811.18 6645811.33 0.0088 0.0049

Neptune 13483-10-02 18:43 G 6645899.14 6645899.28 6645899.43 0.0088 0.0041

Neptune 13483-12-29 21:07 G 6645987.23 6645987.38 6645987.53 0.0088 0.0033

Neptune 13484-03-26 23:16 G 6646075.32 6646075.47 6646075.64 0.0088 0.0025

Neptune 13484-06-23 01:40 G 6646163.42 6646163.57 6646163.74 0.0088 0.0017

Uranus 13484-06-24 09:21 G 6646164.85 6646164.89 6646164.96 0.0145 0.0136

Neptune 13484-09-19 04:04 G 6646251.51 6646251.67 6646251.84 0.0088 0.0009

Uranus 13484-09-20 15:50 G 6646253.06 6646253.16 6646253.27 0.0145 0.0110

Earth 13484-09-21 01:40 G 6646253.45 6646253.57 6646253.69 0.2679 0.1390

Moon 13484-09-21 01:55 G 6646253.46 6646253.58 6646253.69 0.2686 0.1466 *

Saturn 13484-11-11 11:16 G 6646304.88 6646304.97 6646305.06 0.0275 0.0215

Mars 13484-11-16 07:55 G 6646309.80 6646309.83 6646309.87 0.1948 0.1848

Neptune 13484-12-16 06:28 G 6646339.61 6646339.77 6646339.94 0.0088 0.0001

Uranus 13484-12-17 22:04 G 6646341.29 6646341.42 6646341.56 0.0145 0.0085

Saturn 13485-02-08 01:55 G 6646393.44 6646393.58 6646393.72 0.0275 0.0108

Neptune 13485-03-14 08:52 G 6646427.70 6646427.87 6646428.03 0.0088 0.0007

Uranus 13485-03-16 04:33 G 6646429.53 6646429.69 6646429.84 0.0145 0.0059

Saturn 13485-05-07 16:04 G 6646482.02 6646482.17 6646482.32 0.0275 0.0008

Neptune 13485-06-10 11:16 G 6646515.81 6646515.97 6646516.13 0.0088 0.0015

Uranus 13485-06-12 10:48 G 6646517.79 6646517.95 6646518.12 0.0145 0.0033

Saturn 13485-08-04 06:00 G 6646570.62 6646570.75 6646570.90 0.0275 0.0099

Neptune 13485-09-06 13:40 G 6646603.91 6646604.07 6646604.23 0.0088 0.0023

Uranus 13485-09-08 17:16 G 6646606.05 6646606.22 6646606.39 0.0144 0.0007

Saturn 13485-10-31 19:55 G 6646659.23 6646659.33 6646659.43 0.0276 0.0198

Neptune 13485-12-03 15:50 G 6646692.01 6646692.16 6646692.32 0.0088 0.0032

Uranus 13485-12-05 23:45 G 6646694.32 6646694.49 6646694.66 0.0144 0.0019

Neptune 13486-03-01 18:14 G 6646780.12 6646780.26 6646780.42 0.0088 0.0040

Uranus 13486-03-04 06:14 G 6646782.60 6646782.76 6646782.92 0.0144 0.0046

Venus 13486-04-27 04:48 G 6646836.59 6646836.70 6646836.81 0.3687 0.1004

Neptune 13486-05-28 20:38 G 6646868.23 6646868.36 6646868.51 0.0088 0.0048

Uranus 13486-05-31 12:43 G 6646870.89 6646871.03 6646871.18 0.0144 0.0072

Neptune 13486-08-24 23:02 G 6646956.34 6646956.46 6646956.60 0.0088 0.0056

Uranus 13486-08-27 19:12 G 6646959.19 6646959.30 6646959.43 0.0144 0.0099

Neptune 13486-11-21 01:40 G 6647044.46 6647044.57 6647044.68 0.0088 0.0064

Uranus 13486-11-24 01:55 G 6647047.51 6647047.58 6647047.67 0.0144 0.0126

Neptune 13487-02-17 03:50 G 6647132.58 6647132.66 6647132.77 0.0088 0.0073

Neptune 13487-05-16 06:28 G 6647220.71 6647220.77 6647220.84 0.0088 0.0081

Jupiter 13487-11-06 06:00 G 6647394.64 6647394.75 6647394.85 0.0488 0.0359

Venus 13487-11-08 23:16 G 6647397.34 6647397.47 6647397.60 0.3683 0.0733

Jupiter 13488-02-03 21:21 G 6647484.25 6647484.39 6647484.54 0.0486 0.0215

Venus 13491-11-10 22:48 G 6648860.36 6648860.45 6648860.53 0.3688 0.2287

Venus 13493-05-24 23:45 G 6649421.41 6649421.49 6649421.57 0.3683 0.2893

Mars 13493-05-28 01:55 G 6649424.45 6649424.58 6649424.70 0.1592 0.0930

Jupiter 13494-01-08 01:12 G 6649649.42 6649649.55 6649649.67 0.0541 0.0291

Jupiter 13494-04-07 17:16 G 6649739.14 6649739.22 6649739.31 0.0542 0.0428

Earth 13495-03-25 17:45 G 6650091.14 6650091.24 6650091.35 0.2653 0.1333

Moon 13495-03-25 18:14 G 6650091.15 6650091.26 6650091.36 0.2659 0.1338 *

Mars 13496-03-14 14:52 G 6650446.02 6650446.12 6650446.21 0.1943 0.1268

Venus 13497-05-26 16:33 G 6650884.16 6650884.19 6650884.22 0.3688 0.3526

Saturn 13499-08-24 05:02 G 6651703.60 6651703.71 6651703.82 0.0283 0.0201

Saturn 13499-11-20 21:36 G 6651792.25 6651792.40 6651792.55 0.0283 0.0085

Jupiter 13499-11-22 23:02 G 6651794.31 6651794.46 6651794.62 0.0486 0.0073

Saturn 13500-02-17 14:24 G 6651880.94 6651881.10 6651881.26 0.0283 0.0035

Saturn 13500-05-17 07:40 G 6651969.69 6651969.82 6651969.96 0.0283 0.0157

Saturn 13500-08-14 01:12 G 6652058.54 6652058.55 6652058.58 0.0283 0.0282

Mars 13502-10-19 07:12 G 6652854.65 6652854.80 6652854.95 0.1591 0.0245

Moon 13504-09-17 05:16 G 6653553.69 6653553.72 6653553.75 0.2684 0.2585

Earth 13504-09-17 06:28 G 6653553.72 6653553.77 6653553.82 0.2681 0.2499 *

Mars 13505-08-05 20:52 G 6653876.25 6653876.37 6653876.49 0.1945 0.0303

Jupiter 13505-10-28 01:12 G 6653959.49 6653959.55 6653959.61 0.0540 0.0493

Jupiter 13506-01-25 18:00 G 6654049.13 6654049.25 6654049.38 0.0542 0.0236

Jupiter 13511-09-12 01:12 G 6656104.39 6656104.55 6656104.71 0.0487 0.0066

Mars 13512-03-10 12:43 G 6656284.88 6656285.03 6656285.18 0.1590 0.0433

Saturn 13514-04-01 13:55 G 6657037.01 6657037.08 6657037.16 0.0275 0.0236

Saturn 13514-06-29 04:33 G 6657125.56 6657125.69 6657125.83 0.0275 0.0130

Saturn 13514-09-25 18:57 G 6657214.14 6657214.29 6657214.44 0.0275 0.0026

Saturn 13514-12-23 09:07 G 6657302.73 6657302.88 6657303.02 0.0275 0.0077

Mars 13514-12-27 02:38 G 6657306.49 6657306.61 6657306.72 0.1947 0.0719

Saturn 13515-03-21 22:33 G 6657391.34 6657391.44 6657391.56 0.0275 0.0177

Moon 13515-03-22 06:28 G 6657391.68 6657391.77 6657391.86 0.2655 0.1703

Earth 13515-03-22 07:12 G 6657391.70 6657391.80 6657391.90 0.2651 0.1558 *

Saturn 13515-06-18 12:14 G 6657480.00 6657480.01 6657480.02 0.0275 0.0274

Moon 13517-09-20 06:14 G 6658304.63 6658304.76 6658304.89 0.2686 0.0463

Earth 13517-09-20 06:43 G 6658304.65 6658304.78 6658304.92 0.2680 0.0374 *

Jupiter 13517-11-13 19:55 G 6658359.19 6658359.33 6658359.47 0.0542 0.0060

Mars 13521-07-31 18:28 G 6659715.16 6659715.27 6659715.38 0.1589 0.1094

Jupiter 13523-07-01 02:52 G 6660414.48 6660414.62 6660414.77 0.0487 0.0208

Jupiter 13523-09-28 18:43 G 6660504.18 6660504.28 6660504.38 0.0485 0.0371

Mars 13524-05-18 08:09 G 6660736.79 6660736.84 6660736.89 0.1948 0.1747

Venus 13526-04-19 19:55 G 6661438.25 6661438.33 6661438.41 0.3686 0.2676

Uranus 13527-01-08 21:07 G 6661702.35 6661702.38 6661702.43 0.0134 0.0128

Uranus 13527-04-07 00:57 G 6661790.47 6661790.54 6661790.63 0.0134 0.0110

Uranus 13527-07-04 04:48 G 6661878.61 6661878.70 6661878.82 0.0134 0.0092

Uranus 13527-09-30 09:07 G 6661966.75 6661966.88 6661967.00 0.0134 0.0073

Uranus 13527-12-27 12:57 G 6662054.90 6662055.04 6662055.17 0.0134 0.0055

Moon 13528-03-24 02:52 G 6662142.50 6662142.62 6662142.74 0.2658 0.0066

Earth 13528-03-24 03:07 G 6662142.51 6662142.63 6662142.75 0.2652 0.0081 *

Uranus 13528-03-24 16:48 G 6662143.06 6662143.20 6662143.34 0.0134 0.0037

Uranus 13528-06-20 20:24 G 6662231.21 6662231.35 6662231.50 0.0134 0.0020

Uranus 13528-09-17 00:14 G 6662319.37 6662319.51 6662319.66 0.0134 0.0003

Uranus 13528-12-14 04:04 G 6662407.53 6662407.67 6662407.81 0.0134 0.0016

Saturn 13529-01-11 04:19 G 6662435.61 6662435.68 6662435.77 0.0284 0.0243

Uranus 13529-03-12 07:55 G 6662495.69 6662495.83 6662495.97 0.0134 0.0034

Saturn 13529-04-09 20:52 G 6662524.23 6662524.37 6662524.51 0.0284 0.0127

Uranus 13529-06-08 11:31 G 6662583.85 6662583.98 6662584.11 0.0134 0.0052

Saturn 13529-07-07 13:40 G 6662612.91 6662613.07 6662613.23 0.0284 0.0010

Jupiter 13529-09-01 21:50 G 6662669.27 6662669.41 6662669.56 0.0542 0.0111

Uranus 13529-09-04 15:07 G 6662672.01 6662672.13 6662672.26 0.0134 0.0069

Saturn 13529-10-04 06:43 G 6662701.63 6662701.78 6662701.93 0.0284 0.0112

Uranus 13529-12-01 18:57 G 6662760.18 6662760.29 6662760.40 0.0134 0.0086

Saturn 13530-01-01 00:14 G 6662790.42 6662790.51 6662790.60 0.0284 0.0235

Uranus 13530-02-27 22:33 G 6662848.35 6662848.44 6662848.53 0.0134 0.0104

Uranus 13530-05-27 01:55 G 6662936.53 6662936.58 6662936.65 0.0134 0.0121

Earth 13530-09-23 07:26 G 6663055.71 6663055.81 6663055.91 0.2679 0.1840

Moon 13530-09-23 07:40 G 6663055.72 6663055.82 6663055.92 0.2686 0.1843 *

Venus 13531-11-03 14:24 G 6663462.00 6663462.10 6663462.21 0.3687 0.1275

Mars 13532-11-27 02:09 G 6663851.48 6663851.59 6663851.71 0.1592 0.1024

Venus 13533-05-16 23:16 G 6664022.38 6664022.47 6664022.56 0.3684 0.2670

Jupiter 13535-04-19 05:02 G 6664724.60 6664724.71 6664724.81 0.0487 0.0347

Jupiter 13535-07-17 20:24 G 6664814.21 6664814.35 6664814.49 0.0486 0.0227

Mars 13535-09-14 14:52 G 6664873.04 6664873.12 6664873.21 0.1943 0.1372

Venus 13537-05-19 08:52 G 6665485.76 6665485.87 6665485.98 0.3687 0.0112

Venus 13538-11-30 22:48 G 6666046.32 6666046.45 6666046.58 0.3684 0.0712

Earth 13541-03-26 23:02 G 6666893.36 6666893.46 6666893.55 0.2653 0.1667

Moon 13541-03-26 23:31 G 6666893.39 6666893.48 6666893.56 0.2659 0.1762 *

Jupiter 13541-06-20 23:45 G 6666979.37 6666979.49 6666979.61 0.0541 0.0284

Jupiter 13541-09-18 16:04 G 6667069.09 6667069.17 6667069.25 0.0543 0.0436

Mars 13542-04-19 07:40 G 6667281.67 6667281.82 6667281.97 0.1591 0.0336

Venus 13542-12-03 02:52 G 6667509.52 6667509.62 6667509.72 0.3688 0.1403

Saturn 13543-11-16 04:33 G 6667857.58 6667857.69 6667857.82 0.0275 0.0170

Saturn 13544-02-12 19:12 G 6667946.15 6667946.30 6667946.45 0.0275 0.0065

Saturn 13544-05-11 09:21 G 6668034.74 6668034.89 6668035.04 0.0275 0.0039

Venus 13544-06-15 23:02 G 6668070.33 6668070.46 6668070.58 0.3683 0.1361

Saturn 13544-08-07 23:16 G 6668123.34 6668123.47 6668123.60 0.0275 0.0140

Saturn 13544-11-04 12:43 G 6668211.97 6668212.03 6668212.11 0.0275 0.0239

Mars 13545-02-03 21:07 G 6668303.26 6668303.38 6668303.50 0.1945 0.0397

Jupiter 13547-05-05 21:36 G 6669124.24 6669124.40 6669124.56 0.0486 0.0078

Venus 13548-06-17 20:52 G 6669533.29 6669533.37 6669533.44 0.3688 0.2677

Venus 13549-12-30 23:45 G 6670094.46 6670094.49 6670094.52 0.3683 0.3566

Moon 13550-09-18 11:02 G 6670355.89 6670355.96 6670356.03 0.2684 0.2300

Earth 13550-09-18 12:00 G 6670355.92 6670356.00 6670356.09 0.2681 0.2077 *

Mars 13551-09-09 13:12 G 6670711.90 6670712.05 6670712.20 0.1590 0.0342

Jupiter 13553-04-09 00:43 G 6671289.46 6671289.53 6671289.60 0.0540 0.0470

Jupiter 13553-07-07 17:45 G 6671379.11 6671379.24 6671379.36 0.0542 0.0258

Mars 13554-06-27 02:52 G 6671733.50 6671733.62 6671733.73 0.1947 0.0614

Saturn 13558-05-31 05:45 G 6673167.71 6673167.74 6673167.78 0.0283 0.0273

Saturn 13558-08-27 22:04 G 6673256.30 6673256.42 6673256.55 0.0283 0.0159

Saturn 13558-11-24 14:52 G 6673344.96 6673345.12 6673345.28 0.0283 0.0041

Saturn 13559-02-21 07:55 G 6673433.68 6673433.83 6673433.98 0.0283 0.0079

Jupiter 13559-02-21 23:31 G 6673434.32 6673434.48 6673434.64 0.0487 0.0063

Saturn 13559-05-21 01:26 G 6673522.44 6673522.56 6673522.67 0.0283 0.0202

Mars 13561-01-29 18:57 G 6674142.17 6674142.29 6674142.41 0.1589 0.1000

Moon 13561-03-22 11:31 G 6674193.88 6674193.98 6674194.09 0.2656 0.1254

Earth 13561-03-22 12:14 G 6674193.90 6674194.01 6674194.12 0.2651 0.1214 *

Moon 13563-09-21 12:14 G 6675106.87 6675107.01 6675107.14 0.2687 0.0085

Earth 13563-09-21 12:28 G 6675106.89 6675107.02 6675107.16 0.2680 0.0093 *

Mars 13563-11-17 08:24 G 6675163.78 6675163.85 6675163.91 0.1948 0.1647

Neptune 13565-04-24 02:09 G 6675687.54 6675687.59 6675687.65 0.0089 0.0084

Jupiter 13565-04-25 18:14 G 6675689.12 6675689.26 6675689.40 0.0542 0.0061

Neptune 13565-07-21 04:04 G 6675775.60 6675775.67 6675775.76 0.0089 0.0076

Neptune 13565-10-17 06:14 G 6675863.67 6675863.76 6675863.86 0.0089 0.0068

Neptune	13566-01-13 08:24 G	6675951.74	6675951.85	6675951.96	0.0089	0.0060
Neptune	13566-04-11 10:19 G	6676039.81	6676039.93	6676040.06	0.0089	0.0052
Neptune	13566-07-08 12:28 G	6676127.89	6676128.02	6676128.15	0.0089	0.0044
Neptune	13566-10-04 14:09 G	6676215.96	6676216.09	6676216.24	0.0089	0.0036
Neptune	13566-12-31 16:19 G	6676304.04	6676304.18	6676304.33	0.0089	0.0028
Neptune	13567-03-29 18:14 G	6676392.12	6676392.26	6676392.41	0.0089	0.0021
Neptune	13567-06-25 20:24 G	6676480.20	6676480.35	6676480.50	0.0089	0.0012
Neptune	13567-09-21 22:19 G	6676568.28	6676568.43	6676568.58	0.0089	0.0005
Neptune	13567-12-19 00:14 G	6676656.36	6676656.51	6676656.66	0.0089	0.0003
Neptune	13568-03-16 02:09 G	6676744.44	6676744.59	6676744.74	0.0089	0.0011
Neptune	13568-06-12 04:04 G	6676832.53	6676832.67	6676832.82	0.0089	0.0019
Uranus	13568-07-15 16:33 G	6676866.12	6676866.19	6676866.27	0.0145	0.0130
Neptune	13568-09-08 06:00 G	6676920.61	6676920.75	6676920.90	0.0089	0.0026
Uranus	13568-10-11 22:48 G	6676954.34	6676954.45	6676954.57	0.0145	0.0105
Neptune	13568-12-05 07:40 G	6677008.69	6677008.82	6677008.97	0.0089	0.0035
Uranus	13569-01-08 04:48 G	6677042.57	6677042.70	6677042.85	0.0145	0.0080
Neptune	13569-03-03 09:50 G	6677096.78	6677096.91	6677097.04	0.0089	0.0041
Uranus	13569-04-06 11:16 G	6677130.82	6677130.97	6677131.13	0.0145	0.0054
Neptune	13569-05-30 11:31 G	6677184.87	6677184.98	6677185.11	0.0089	0.0049
Uranus	13569-07-03 17:45 G	6677219.08	6677219.24	6677219.41	0.0145	0.0028
Neptune	13569-08-26 13:26 G	6677272.95	6677273.06	6677273.18	0.0089	0.0057
Uranus	13569-09-30 00:14 G	6677307.34	6677307.51	6677307.68	0.0144	0.0002
Neptune	13569-11-22 15:07 G	6677361.04	6677361.13	6677361.25	0.0089	0.0065
Uranus	13569-12-27 06:43 G	6677395.61	6677395.78	6677395.95	0.0144	0.0025
Neptune	13570-02-18 17:16 G	6677449.14	6677449.22	6677449.31	0.0089	0.0072
Uranus	13570-03-25 12:57 G	6677483.89	6677484.04	6677484.21	0.0144	0.0052
Neptune	13570-05-17 18:57 G	6677537.23	6677537.29	6677537.37	0.0089	0.0079
Uranus	13570-06-21 19:26 G	6677572.18	6677572.31	6677572.47	0.0144	0.0079
Neptune	13570-08-13 20:52 G	6677625.34	6677625.37	6677625.41	0.0089	0.0087
Uranus	13570-09-18 02:24 G	6677660.48	6677660.60	6677660.72	0.0144	0.0105

Jupiter 13570-12-11 01:40 G 6677744.43 6677744.57 6677744.71 0.0487 0.0199

Uranus 13570-12-15 08:52 G 6677748.81 6677748.87 6677748.95 0.0144 0.0132

Jupiter 13571-03-10 17:31 G 6677834.13 6677834.23 6677834.33 0.0486 0.0381

Mars 13572-05-28 02:52 G 6678278.51 6678278.62 6678278.72 0.1592 0.1124

Saturn 13573-04-04 07:26 G 6678589.70 6678589.81 6678589.92 0.0275 0.0191

Saturn 13573-07-01 22:04 G 6678678.27 6678678.42 6678678.56 0.0275 0.0086

Saturn 13573-09-28 12:14 G 6678766.86 6678767.01 6678767.16 0.0275 0.0018

Saturn 13573-12-26 02:09 G 6678855.45 6678855.59 6678855.72 0.0275 0.0119

Saturn 13574-03-24 15:36 G 6678944.07 6678944.15 6678944.24 0.0275 0.0218

Moon 13574-03-25 08:09 G 6678944.72 6678944.84 6678944.96 0.2658 0.0377

Earth 13574-03-25 08:09 G 6678944.73 6678944.84 6678944.96 0.2652 0.0427 *

Mars 13575-03-15 15:07 G 6679300.05 6679300.13 6679300.20 0.1943 0.1462

Earth 13576-09-23 13:26 G 6679857.99 6679858.06 6679858.12 0.2679 0.2302

Moon 13576-09-23 13:40 G 6679858.01 6679858.07 6679858.13 0.2685 0.2363 *

Jupiter 13577-02-11 19:55 G 6679999.19 6679999.33 6679999.47 0.0542 0.0118

Venus 13577-05-10 23:31 G 6680087.48 6680087.48 6680087.48 0.3686 0.3680

Mars 13581-10-18 07:55 G 6681708.68 6681708.83 6681708.98 0.1591 0.0426

Pluto 13582-09-15 19:40 G 6682041.32 6682041.32 6682041.34 0.0071 0.0071

Jupiter 13582-09-29 03:36 G 6682054.54 6682054.65 6682054.76 0.0487 0.0338

Venus 13582-11-24 18:14 G 6682111.17 6682111.26 6682111.35 0.3686 0.2241

Pluto 13582-12-12 20:09 G 6682129.29 6682129.34 6682129.42 0.0071 0.0062

Jupiter 13582-12-27 18:57 G 6682144.15 6682144.29 6682144.43 0.0486 0.0235

Pluto 13583-03-10 20:52 G 6682217.30 6682217.37 6682217.48 0.0071 0.0053

Pluto 13583-06-06 21:50 G 6682305.31 6682305.41 6682305.52 0.0071 0.0044

Pluto 13583-09-02 22:33 G 6682393.33 6682393.44 6682393.56 0.0071 0.0034

Pluto 13583-11-29 23:16 G 6682481.35 6682481.47 6682481.60 0.0071 0.0025

Pluto 13584-02-26 00:00 G 6682569.37 6682569.50 6682569.63 0.0071 0.0016

Pluto 13584-05-24 00:43 G 6682657.40 6682657.53 6682657.67 0.0072 0.0006

Mars 13584-08-04 21:07 G 6682730.26 6682730.38 6682730.50 0.1945 0.0487

Pluto 13584-08-20 01:26 G 6682745.43 6682745.56 6682745.70 0.0072 0.0003

Pluto 13584-11-16 02:09 G 6682833.46 6682833.59 6682833.72 0.0072 0.0013

Pluto 13585-02-12 02:38 G 6682921.49 6682921.61 6682921.75 0.0072 0.0023

Pluto 13585-05-11 03:36 G 6683009.53 6683009.65 6683009.77 0.0072 0.0032

Pluto 13585-08-07 04:04 G 6683097.58 6683097.67 6683097.79 0.0072 0.0043

Pluto 13585-11-03 05:16 G 6683185.62 6683185.72 6683185.81 0.0072 0.0052

Pluto 13586-01-30 05:45 G 6683273.68 6683273.74 6683273.82 0.0072 0.0062

Pluto 13586-04-28 06:28 G 6683361.76 6683361.77 6683361.80 0.0073 0.0072

Earth 13587-03-28 04:04 G 6683695.59 6683695.67 6683695.75 0.2653 0.1998

Moon 13587-03-28 04:33 G 6683695.62 6683695.69 6683695.76 0.2659 0.2057 *

Saturn 13588-01-14 21:50 G 6683988.30 6683988.41 6683988.52 0.0284 0.0200

Saturn 13588-04-12 14:09 G 6684076.94 6684077.09 6684077.24 0.0284 0.0084

Venus 13588-06-09 12:43 G 6684134.92 6684135.03 6684135.14 0.3687 0.0842

Saturn 13588-07-10 07:12 G 6684165.64 6684165.80 6684165.96 0.0284 0.0035

Saturn 13588-10-07 00:14 G 6684254.38 6684254.51 6684254.65 0.0284 0.0157

Jupiter 13588-11-30 21:50 G 6684309.28 6684309.41 6684309.53 0.0541 0.0289

Saturn 13589-01-03 18:00 G 6684343.23 6684343.25 6684343.27 0.0284 0.0281

Jupiter 13589-02-28 14:09 G 6684399.01 6684399.09 6684399.18 0.0543 0.0433

Venus 13589-12-21 22:48 G 6684695.34 6684695.45 6684695.56 0.3684 0.2084

Mars 13591-03-10 13:26 G 6685138.91 6685139.06 6685139.21 0.1590 0.0253

Venus 13593-12-24 06:57 G 6686158.68 6686158.79 6686158.90 0.3687 0.0496

Mars 13593-12-26 02:52 G 6686160.51 6686160.62 6686160.74 0.1947 0.0517

Moon 13594-03-20 20:24 G 6686245.32 6686245.35 6686245.38 0.2651 0.2573

Earth 13594-03-20 21:21 G 6686245.35 6686245.39 6686245.42 0.2650 0.2522 *

Jupiter 13594-07-18 05:45 G 6686364.71 6686364.74 6686364.77 0.0488 0.0475

Jupiter 13594-10-15 20:38 G 6686454.21 6686454.36 6686454.52 0.0486 0.0092

Venus 13595-07-07 22:33 G 6686719.31 6686719.44 6686719.57 0.3683 0.0106

Moon 13596-09-18 16:48 G 6687158.10 6687158.20 6687158.30 0.2684 0.1704

Earth 13596-09-18 17:45 G 6687158.14 6687158.24 6687158.35 0.2681 0.1652 *

Venus 13599-07-10 00:57 G 6688182.44 6688182.54 6688182.64 0.3688 0.1803

Mars 13600-07-30 19:12 G 6688569.18 6688569.30 6688569.43 0.1589 0.0911

Jupiter 13600-09-18 23:16 G 6688619.40 6688619.47 6688619.55 0.0541 0.0464

Jupiter 13600-12-17 16:19 G 6688709.06 6688709.18 6688709.31 0.0542 0.0266

Venus 13601-01-20 22:48 G 6688743.34 6688743.45 6688743.56 0.3683 0.2015

Saturn 13602-08-22 06:57 G 6689321.72 6689321.79 6689321.88 0.0275 0.0234

Saturn 13602-11-18 21:50 G 6689410.28 6689410.41 6689410.55 0.0275 0.0127

Saturn 13603-02-15 12:14 G 6689498.86 6689499.01 6689499.16 0.0275 0.0023

Saturn 13603-05-15 02:24 G 6689587.45 6689587.60 6689587.74 0.0275 0.0080

Mars 13603-05-18 08:24 G 6689590.78 6689590.85 6689590.93 0.1948 0.1546

Saturn 13603-08-11 16:04 G 6689676.06 6689676.17 6689676.28 0.0275 0.0179

Venus 13605-01-22 18:43 G 6690206.22 6690206.28 6690206.34 0.3688 0.3053

Jupiter 13606-08-03 22:04 G 6690764.26 6690764.42 6690764.58 0.0487 0.0055

Moon 13607-03-23 16:48 G 6690996.09 6690996.20 6690996.31 0.2656 0.1024

Earth 13607-03-23 17:31 G 6690996.11 6690996.23 6690996.34 0.2651 0.0867 *

Moon 13609-09-21 18:00 G 6691909.12 6691909.25 6691909.38 0.2687 0.0415

Earth 13609-09-21 18:14 G 6691909.13 6691909.26 6691909.40 0.2680 0.0514 *

Mars 13609-12-21 01:12 G 6691999.53 6691999.55 6691999.58 0.1588 0.1556

Uranus 13611-01-29 04:04 G 6692403.62 6692403.67 6692403.73 0.0134 0.0124

Uranus 13611-04-27 07:55 G 6692491.75 6692491.83 6692491.93 0.0134 0.0106

Uranus 13611-07-24 11:45 G 6692579.89 6692579.99 6692580.11 0.0134 0.0088

Uranus 13611-10-20 15:50 G 6692668.04 6692668.16 6692668.29 0.0134 0.0069

Mars 13611-11-27 03:07 G 6692705.54 6692705.63 6692705.73 0.1592 0.1220

Uranus 13612-01-16 19:40 G 6692756.19 6692756.32 6692756.46 0.0134 0.0051

Uranus 13612-04-13 23:31 G 6692844.34 6692844.48 6692844.63 0.0134 0.0034

Uranus 13612-07-11 03:21 G 6692932.50 6692932.64 6692932.79 0.0134 0.0016

Jupiter 13612-10-05 18:00 G 6693019.11 6693019.25 6693019.39 0.0542 0.0087

Uranus 13612-10-07 07:12 G 6693020.66 6693020.80 6693020.95 0.0134 0.0003

Uranus 13613-01-03 11:02 G 6693108.82 6693108.96 6693109.10 0.0134 0.0020

Uranus 13613-04-01 14:38 G 6693196.98 6693197.11 6693197.25 0.0134 0.0038

Uranus 13613-06-28 18:28 G 6693285.14 6693285.27 6693285.40 0.0134 0.0055

Uranus 13613-09-24 22:04 G 6693373.30 6693373.42 6693373.54 0.0134 0.0073

Uranus 13613-12-22 01:40 G 6693461.47 6693461.57 6693461.68 0.0134 0.0090

Uranus 13614-03-20 05:31 G 6693549.65 6693549.73 6693549.81 0.0134 0.0107

Uranus 13614-06-16 09:07 G 6693637.83 6693637.88 6693637.93 0.0134 0.0124

Mars 13614-09-13 15:07 G 6693727.06 6693727.13 6693727.20 0.1943 0.1558

Saturn 13617-06-02 22:33 G 6694720.35 6694720.44 6694720.52 0.0284 0.0235

Saturn 13617-08-30 14:52 G 6694808.98 6694809.12 6694809.26 0.0284 0.0120

Saturn 13617-11-27 07:40 G 6694897.66 6694897.82 6694897.98 0.0284 0.0001

Saturn 13618-02-24 00:43 G 6694986.39 6694986.53 6694986.68 0.0284 0.0120

Jupiter 13618-05-23 00:00 G 6695074.36 6695074.50 6695074.65 0.0487 0.0194

Saturn 13618-05-23 18:14 G 6695075.19 6695075.26 6695075.35 0.0284 0.0244

Jupiter 13618-08-20 15:50 G 6695164.07 6695164.16 6695164.26 0.0486 0.0387

Earth 13620-03-25 13:26 G 6695746.94 6695747.06 6695747.17 0.2652 0.0750

Moon 13620-03-25 13:26 G 6695746.95 6695747.06 6695747.17 0.2659 0.0804 *

Mars 13621-04-18 08:24 G 6696135.71 6696135.85 6696136.00 0.1591 0.0525

Mars 13624-02-03 21:21 G 6697157.27 6697157.39 6697157.50 0.1945 0.0591

Jupiter 13624-07-24 18:14 G 6697329.12 6697329.26 6697329.40 0.0541 0.0113

Jupiter 13630-03-11 02:24 G 6699384.49 6699384.60 6699384.72 0.0488 0.0329

Jupiter 13630-06-08 17:45 G 6699474.11 6699474.24 6699474.38 0.0486 0.0246

Mars 13630-09-08 13:55 G 6699565.93 6699566.08 6699566.23 0.1590 0.0157

Saturn 13632-01-09 09:50 G 6700053.86 6700053.91 6700053.97 0.0275 0.0255

Saturn 13632-04-07 00:28 G 6700142.40 6700142.52 6700142.65 0.0275 0.0149

Saturn 13632-07-04 15:07 G 6700230.98 6700231.13 6700231.28 0.0275 0.0045

Saturn 13632-10-01 05:02 G 6700319.57 6700319.71 6700319.86 0.0275 0.0059

Saturn 13632-12-28 18:57 G 6700408.17 6700408.29 6700408.41 0.0275 0.0159

Saturn 13633-03-27 08:24 G 6700496.81 6700496.85 6700496.90 0.0275 0.0257

Earth 13633-03-28 09:07 G 6700497.83 6700497.88 6700497.94 0.2653 0.2330

Moon 13633-03-28 09:50 G 6700497.86 6700497.91 6700497.95 0.2659 0.2405 *

Mars 13633-06-26 03:07 G 6700587.51 6700587.63 6700587.75 0.1947 0.0418

Venus 13633-12-15 21:50 G 6700760.35 6700760.41 6700760.46 0.3686 0.3241

Jupiter 13636-05-12 19:40 G 6701639.20 6701639.32 6701639.44 0.0541 0.0294

Jupiter 13636-08-10 12:14 G 6701728.92 6701729.01 6701729.09 0.0543 0.0428

Venus 13639-07-01 16:33 G 6702784.09 6702784.19 6702784.29 0.3687 0.1805

Mars 13640-01-29 19:40 G 6702996.19 6702996.32 6702996.45 0.1589 0.0825

Moon 13640-03-21 01:40 G 6703047.51 6703047.57 6703047.62 0.2653 0.2351

Earth 13640-03-21 02:24 G 6703047.54 6703047.60 6703047.67 0.2650 0.2170 *

Venus 13641-01-11 23:02 G 6703344.41 6703344.46 6703344.51 0.3685 0.3409

Jupiter 13641-12-28 04:19 G 6703694.65 6703694.68 6703694.73 0.0488 0.0466

Jupiter 13642-03-27 19:26 G 6703784.16 6703784.31 6703784.47 0.0486 0.0102

Moon 13642-09-19 22:33 G 6703960.33 6703960.44 6703960.56 0.2686 0.1412

Earth 13642-09-19 23:31 G 6703960.36 6703960.48 6703960.60 0.2681 0.1222 *

Mars 13642-11-16 08:38 G 6704017.78 6704017.86 6704017.94 0.1948 0.1451

Venus 13645-01-14 10:48 G 6704807.84 6704807.95 6704808.07 0.3687 0.0446

Venus 13646-07-28 22:19 G 6705368.31 6705368.43 6705368.55 0.3684 0.1501

Saturn 13646-10-20 22:19 G 6705452.40 6705452.43 6705452.47 0.0284 0.0274

Saturn 13647-01-17 14:24 G 6705540.98 6705541.10 6705541.24 0.0284 0.0161

Neptune 13647-01-18 04:48 G 6705541.66 6705541.70 6705541.76 0.0088 0.0083

Saturn 13647-04-16 07:12 G 6705629.64 6705629.80 6705629.96 0.0284 0.0043

Neptune 13647-04-16 07:12 G 6705629.72 6705629.80 6705629.88 0.0088 0.0075 *

Neptune 13647-07-13 09:07 G 6705717.79 6705717.88 6705718.00 0.0088 0.0068

Saturn 13647-07-14 00:14 G 6705718.35 6705718.51 6705718.66 0.0284 0.0077

Neptune 13647-10-09 11:31 G 6705805.87 6705805.98 6705806.11 0.0088 0.0060

Saturn 13647-10-10 17:31 G 6705807.12 6705807.23 6705807.35 0.0284 0.0199

Neptune 13648-01-05 13:40 G 6705893.95 6705894.07 6705894.21 0.0088 0.0052

Jupiter 13648-02-29 21:21 G 6705949.32 6705949.39 6705949.47 0.0541 0.0468

Neptune 13648-04-02 16:04 G 6705982.04 6705982.17 6705982.32 0.0088 0.0044

Jupiter 13648-05-29 14:24 G 6706038.98 6706039.10 6706039.23 0.0543 0.0263

Neptune 13648-06-29 18:28 G 6706070.12 6706070.27 6706070.42 0.0088 0.0036

Neptune 13648-09-25 20:52 G 6706158.21 6706158.37 6706158.52 0.0088 0.0028

Neptune 13648-12-22 23:02 G 6706246.30 6706246.46 6706246.62 0.0088 0.0021

Neptune 13649-03-21 01:26 G 6706334.40 6706334.56 6706334.72 0.0088 0.0012

Neptune 13649-06-17 03:50 G 6706422.49 6706422.66 6706422.82 0.0088 0.0005

Mars 13649-06-21 01:40 G 6706426.51 6706426.57 6706426.62 0.1588 0.1468

Neptune 13649-09-13 06:00 G 6706510.59 6706510.75 6706510.92 0.0088 0.0004

Neptune 13649-12-10 08:24 G 6706598.69 6706598.85 6706599.02 0.0088 0.0012

Neptune 13650-03-08 10:33 G 6706686.79 6706686.94 6706687.11 0.0088 0.0020

Neptune 13650-06-04 12:57 G 6706774.89 6706775.04 6706775.21 0.0088 0.0028

Venus 13650-07-31 05:02 G 6706831.60 6706831.71 6706831.82 0.3688 0.0907

Neptune 13650-08-31 15:21 G 6706863.00 6706863.14 6706863.30 0.0088 0.0036

Neptune 13650-11-27 17:45 G 6706951.11 6706951.24 6706951.39 0.0088 0.0044

Neptune 13651-02-23 20:24 G 6707039.22 6707039.35 6707039.48 0.0088 0.0052

Neptune 13651-05-22 22:33 G 6707127.33 6707127.44 6707127.57 0.0088 0.0061

Mars 13651-05-28 03:36 G 6707132.56 6707132.65 6707132.73 0.1592 0.1311

Neptune 13651-08-19 00:57 G 6707215.45 6707215.54 6707215.65 0.0088 0.0069

Neptune 13651-11-15 03:36 G 6707303.58 6707303.65 6707303.73 0.0088 0.0077

Neptune 13652-02-11 05:45 G 6707391.72 6707391.74 6707391.79 0.0088 0.0086

Venus 13652-02-11 22:19 G 6707392.30 6707392.43 6707392.56 0.3683 0.0524

Uranus 13652-08-04 23:31 G 6707567.40 6707567.48 6707567.57 0.0145 0.0125

Uranus 13652-11-01 05:31 G 6707655.62 6707655.73 6707655.86 0.0145 0.0100

Uranus 13653-01-28 12:00 G 6707743.86 6707744.00 6707744.15 0.0145 0.0074

Moon 13653-03-23 22:04 G 6707798.30 6707798.42 6707798.54 0.2656 0.0532

Earth 13653-03-23 22:33 G 6707798.32 6707798.44 6707798.56 0.2651 0.0520 *

Uranus 13653-04-26 18:14 G 6707832.11 6707832.26 6707832.43 0.0145 0.0048

Uranus 13653-07-24 00:43 G 6707920.36 6707920.53 6707920.70 0.0144 0.0022

Uranus 13653-10-20 07:12 G 6708008.63 6708008.80 6708008.97 0.0144 0.0004

Jupiter 13654-01-13 21:21 G 6708094.23 6708094.39 6708094.55 0.0487 0.0040

Uranus 13654-01-16 13:40 G 6708096.90 6708097.07 6708097.23 0.0144 0.0030

Mars 13654-03-14 15:07 G 6708154.07 6708154.13 6708154.20 0.1943 0.1657

Uranus 13654-04-14 20:09 G 6708185.18 6708185.34 6708185.50 0.0144 0.0057

Uranus 13654-07-12 02:38 G 6708273.47 6708273.61 6708273.75 0.0144 0.0083

Uranus 13654-10-08 09:07 G 6708361.78 6708361.88 6708362.00 0.0144 0.0110

Uranus 13655-01-04 15:50 G 6708450.12 6708450.16 6708450.22 0.0144 0.0137

Moon 13655-09-22 23:45 G 6708711.37 6708711.49 6708711.62 0.2687 0.1010

Earth 13655-09-23 00:00 G 6708711.37 6708711.50 6708711.63 0.2680 0.0954 *

Venus 13656-02-13 23:02 G 6708855.37 6708855.46 6708855.55 0.3688 0.2191

Venus 13657-08-27 22:48 G 6709416.36 6709416.45 6709416.54 0.3683 0.2668

Jupiter 13660-03-17 16:33 G 6710349.05 6710349.19 6710349.33 0.0542 0.0095

Mars 13660-10-17 08:52 G 6710562.73 6710562.87 6710563.01 0.1591 0.0619

Saturn 13661-08-25 00:00 G 6710874.40 6710874.50 6710874.61 0.0275 0.0193

Venus 13661-08-29 16:48 G 6710879.16 6710879.20 6710879.24 0.3688 0.3434

Saturn 13661-11-21 14:38 G 6710962.97 6710963.11 6710963.26 0.0275 0.0087

Saturn 13662-02-18 05:02 G 6711051.56 6711051.71 6711051.86 0.0275 0.0017

Saturn 13662-05-17 18:57 G 6711140.15 6711140.29 6711140.42 0.0275 0.0118

Saturn 13662-08-14 08:24 G 6711228.77 6711228.85 6711228.95 0.0275 0.0217

Mars 13663-08-04 21:36 G 6711584.28 6711584.40 6711584.51 0.1945 0.0695

Jupiter 13665-11-01 22:48 G 6712404.31 6712404.45 6712404.60 0.0487 0.0185

Jupiter 13666-01-30 14:38 G 6712494.02 6712494.11 6712494.20 0.0486 0.0395

Earth 13666-03-26 18:28 G 6712549.16 6712549.27 6712549.38 0.2652 0.1094

Moon 13666-03-26 18:43 G 6712549.17 6712549.28 6712549.39 0.2659 0.1060 *

Pluto 13668-05-06 09:21 G 6713320.84 6713320.89 6713320.98 0.0073 0.0068

Pluto 13668-08-02 12:00 G 6713408.88 6713409.00 6713409.14 0.0073 0.0053

Pluto 13668-10-29 14:09 G 6713496.94 6713497.09 6713497.27 0.0073 0.0039

Pluto 13669-01-25 16:48 G 6713585.02 6713585.20 6713585.38 0.0073 0.0024

Pluto 13669-04-23 19:12 G 6713673.11 6713673.30 6713673.49 0.0073 0.0010

Pluto 13669-07-20 21:21 G 6713761.20 6713761.39 6713761.58 0.0073 0.0004

Pluto 13669-10-16 23:31 G 6713849.30 6713849.48 6713849.67 0.0073 0.0018

Pluto 13670-01-13 01:26 G 6713937.41 6713937.56 6713937.75 0.0073 0.0033

Mars 13670-03-09 14:24 G 6713992.95 6713993.10 6713993.25 0.1590 0.0067

Pluto 13670-04-11 03:36 G 6714025.53 6714025.65 6714025.82 0.0072 0.0047

Pluto 13670-07-08 06:14 G 6714113.66 6714113.76 6714113.87 0.0072 0.0060

Jupiter 13672-01-04 18:14 G 6714659.11 6714659.26 6714659.40 0.0541 0.0086

Mars 13672-12-25 03:07 G 6715014.51 6715014.63 6715014.75 0.1947 0.0322

Saturn 13676-06-05 14:52 G 6716273.01 6716273.12 6716273.23 0.0284 0.0198

Saturn 13676-09-02 07:26 G 6716361.66 6716361.81 6716361.96 0.0284 0.0082

Saturn 13676-11-30 00:14 G 6716450.35 6716450.51 6716450.67 0.0284 0.0037

Saturn 13677-02-26 17:31 G 6716539.10 6716539.23 6716539.36 0.0284 0.0159

Saturn 13677-05-26 11:02 G 6716627.96 6716627.96 6716627.97 0.0284 0.0283

Jupiter 13677-08-21 00:57 G 6716714.43 6716714.54 6716714.66 0.0488 0.0322

Jupiter 13677-11-18 16:19 G 6716804.05 6716804.18 6716804.32 0.0486 0.0253

Mars 13679-07-30 20:09 G 6717423.20 6717423.34 6717423.47 0.1589 0.0728

Mars 13682-05-17 08:52 G 6718444.78 6718444.87 6718444.96 0.1948 0.1345

Jupiter 13683-10-23 18:14 G 6718969.14 6718969.26 6718969.39 0.0541 0.0287

Jupiter 13684-01-21 10:48 G 6719058.87 6719058.95 6719059.03 0.0543 0.0434

Moon 13686-03-22 06:43 G 6719849.70 6719849.78 6719849.87 0.2653 0.1890

Earth 13686-03-22 07:40 G 6719849.73 6719849.82 6719849.91 0.2650 0.1818 *

Moon 13688-09-20 04:33 G 6720762.56 6720762.69 6720762.82 0.2687 0.0804

Earth 13688-09-20 05:16 G 6720762.59 6720762.72 6720762.85 0.2680 0.0792 *

Mars 13688-12-20 01:55 G 6720853.51 6720853.58 6720853.65 0.1588 0.1382

Jupiter 13689-06-09 03:21 G 6721024.59 6721024.64 6721024.69 0.0488 0.0455

Jupiter 13689-09-06 18:28 G 6721114.11 6721114.27 6721114.42 0.0487 0.0114

Venus 13690-07-22 20:09 G 6721433.26 6721433.34 6721433.41 0.3686 0.2798

Mars 13690-11-26 04:04 G 6721559.60 6721559.67 6721559.74 0.1592 0.1413

Saturn 13691-01-12 02:38 G 6721606.52 6721606.61 6721606.71 0.0275 0.0215

Saturn 13691-04-10 17:16 G 6721695.09 6721695.22 6721695.37 0.0275 0.0109

Saturn 13691-07-08 07:40 G 6721783.67 6721783.82 6721783.97 0.0275 0.0006

Saturn 13691-10-04 21:36 G 6721872.27 6721872.40 6721872.54 0.0275 0.0097

Saturn 13692-01-01 11:31 G 6721960.88 6721960.98 6721961.08 0.0275 0.0196

Mars 13693-09-12 15:21 G 6722581.09 6722581.14 6722581.19 0.1943 0.1751

Uranus 13695-02-18 10:48 G 6723104.89 6723104.95 6723105.02 0.0133 0.0120

Uranus 13695-05-17 14:38 G 6723193.03 6723193.11 6723193.21 0.0134 0.0103

Jupiter 13695-08-11 19:26 G 6723279.25 6723279.31 6723279.39 0.0540 0.0471

Uranus 13695-08-13 18:43 G 6723281.17 6723281.28 6723281.40 0.0134 0.0084

Jupiter 13695-11-09 12:28 G 6723368.90 6723369.02 6723369.15 0.0542 0.0261

Uranus 13695-11-09 22:33 G 6723369.32 6723369.44 6723369.57 0.0134 0.0066

Venus 13696-02-05 14:38 G 6723457.01 6723457.11 6723457.22 0.3687 0.1383

Uranus 13696-02-06 02:38 G 6723457.47 6723457.61 6723457.74 0.0134 0.0048

Uranus 13696-05-04 06:28 G 6723545.63 6723545.77 6723545.91 0.0134 0.0030

Uranus 13696-07-31 10:19 G 6723633.78 6723633.93 6723634.07 0.0134 0.0012

Uranus 13696-10-27 14:09 G 6723721.94 6723722.09 6723722.23 0.0134 0.0007

Uranus 13697-01-23 17:45 G 6723810.10 6723810.24 6723810.39 0.0134 0.0024

Uranus 13697-04-21 21:36 G 6723898.26 6723898.40 6723898.54 0.0134 0.0041

Uranus 13697-07-19 01:12 G 6723986.43 6723986.55 6723986.68 0.0134 0.0059

Venus 13697-08-18 22:33 G 6724017.36 6724017.44 6724017.52 0.3684 0.2846

Uranus 13697-10-15 04:48 G 6724074.59 6724074.70 6724074.83 0.0134 0.0076

Uranus 13698-01-11 08:38 G 6724162.76 6724162.86 6724162.96 0.0134 0.0093

Uranus 13698-04-09 12:14 G 6724250.94 6724251.01 6724251.09 0.0134 0.0111

Uranus 13698-07-06 15:36 G 6724339.13 6724339.15 6724339.21 0.0134 0.0128

Moon 13699-03-25 03:21 G 6724600.52 6724600.64 6724600.76 0.2657 0.0290

Earth 13699-03-25 03:50 G 6724600.54 6724600.66 6724600.78 0.2651 0.0187 *

Mars 13700-04-18 09:07 G 6724989.75 6724989.88 6724990.02 0.1591 0.0711

Jupiter 13701-06-26 20:09 G 6725424.18 6725424.34 6725424.50 0.0487 0.0029

Venus 13701-08-22 09:07 G 6725480.76 6725480.88 6725480.99 0.3687 0.0072

Moon 13701-09-24 05:45 G 6725513.62 6725513.74 6725513.86 0.2686 0.1328

Earth 13701-09-24 05:45 G 6725513.62 6725513.74 6725513.86 0.2679 0.1399 *

Mars 13703-02-03 21:21 G 6726011.28 6726011.39 6726011.50 0.1945 0.0778

Venus 13703-03-05 22:04 G 6726041.29 6726041.42 6726041.55 0.3684 0.0898

Saturn 13705-10-24 14:52 G 6727005.04 6727005.12 6727005.20 0.0283 0.0236

Saturn 13706-01-21 07:12 G 6727093.66 6727093.80 6727093.94 0.0284 0.0122

Saturn 13706-04-20 00:00 G 6727182.34 6727182.50 6727182.66 0.0284 0.0007

Saturn 13706-07-17 17:02 G 6727271.06 6727271.21 6727271.35 0.0284 0.0116

Saturn 13706-10-14 10:19 G 6727359.85 6727359.93 6727360.02 0.0284 0.0240

Venus 13707-03-08 03:07 G 6727504.53 6727504.63 6727504.74 0.3688 0.1315

Jupiter 13707-08-29 14:38 G 6727678.97 6727679.11 6727679.26 0.0542 0.0093

Venus 13708-09-18 22:04 G 6728065.30 6728065.42 6728065.55 0.3683 0.1163

Mars 13709-09-08 14:38 G 6728419.96 6728420.11 6728420.27 0.1590 0.0041

Earth 13712-03-27 23:45 G 6729351.39 6729351.49 6729351.59 0.2653 0.1430

Moon 13712-03-28 00:00 G 6729351.40 6729351.50 6729351.59 0.2659 0.1532 *

Mars 13712-06-26 03:21 G 6729441.52 6729441.64 6729441.77 0.1947 0.0222

Venus 13712-09-20 21:07 G 6729528.30 6729528.38 6729528.46 0.3688 0.2582

Jupiter 13713-04-14 22:04 G 6729734.28 6729734.42 6729734.57 0.0487 0.0168

Jupiter 13713-07-13 13:55 G 6729824.00 6729824.08 6729824.16 0.0485 0.0412

Venus 13714-04-04 22:48 G 6730089.39 6730089.45 6730089.50 0.3682 0.3338

Mars 13719-01-29 20:24 G 6731850.21 6731850.35 6731850.49 0.1589 0.0640

Jupiter 13719-06-17 16:48 G 6731989.06 6731989.20 6731989.34 0.0542 0.0078

Saturn 13720-06-01 02:09 G 6732338.54 6732338.59 6732338.64 0.0275 0.0259

Saturn 13720-08-28 16:48 G 6732427.08 6732427.20 6732427.33 0.0275 0.0153

Saturn 13720-11-25 07:26 G 6732515.66 6732515.81 6732515.96 0.0275 0.0048

Saturn 13721-02-21 21:36 G 6732604.25 6732604.40 6732604.55 0.0275 0.0055

Saturn 13721-05-21 11:16 G 6732692.85 6732692.97 6732693.10 0.0275 0.0156

Saturn 13721-08-18 00:43 G 6732781.49 6732781.53 6732781.60 0.0275 0.0254

Moon 13721-09-19 09:36 G 6732813.87 6732813.90 6732813.93 0.2683 0.2599

Earth 13721-09-19 10:33 G 6732813.89 6732813.94 6732813.99 0.2682 0.2478 *

Mars 13721-11-16 08:52 G 6732871.78 6732871.87 6732871.96 0.1948 0.1250

Jupiter 13725-01-31 23:45 G 6734044.37 6734044.49 6734044.61 0.0488 0.0312

Jupiter 13725-05-01 15:07 G 6734134.00 6734134.13 6734134.27 0.0486 0.0263

Mars 13728-06-21 02:24 G 6735280.51 6735280.60 6735280.69 0.1588 0.1289

Neptune 13729-10-23 23:45 G 6735770.47 6735770.49 6735770.53 0.0089 0.0087

Neptune 13730-01-20 01:40 G 6735858.52 6735858.57 6735858.66 0.0089 0.0080

Neptune 13730-04-18 03:50 G 6735946.58 6735946.66 6735946.76 0.0089 0.0071

Mars 13730-05-28 04:33 G 6735986.64 6735986.69 6735986.73 0.1592 0.1510

Neptune 13730-07-15 06:00 G 6736034.65 6736034.75 6736034.86 0.0089 0.0063

Neptune 13730-10-11 07:55 G 6736122.72 6736122.83 6736122.96 0.0089 0.0056

Neptune 13731-01-07 10:04 G 6736210.80 6736210.92 6736211.06 0.0089 0.0047

Neptune 13731-04-05 12:00 G 6736298.87 6736299.00 6736299.15 0.0089 0.0040

Jupiter 13731-04-05 18:14 G 6736299.13 6736299.26 6736299.39 0.0541 0.0258 *

Neptune 13731-07-02 14:09 G 6736386.95 6736387.09 6736387.24 0.0089 0.0031

Jupiter 13731-07-04 10:33 G 6736388.87 6736388.94 6736389.02 0.0543 0.0463

Neptune 13731-09-28 16:19 G 6736475.03 6736475.18 6736475.32 0.0089 0.0024

Neptune 13731-12-25 18:14 G 6736563.11 6736563.26 6736563.41 0.0089 0.0016

Neptune 13732-03-22 20:09 G 6736651.19 6736651.34 6736651.49 0.0089 0.0008

Moon 13732-03-23 12:00 G 6736651.90 6736652.00 6736652.09 0.2653 0.1630

Earth 13732-03-23 12:43 G 6736651.93 6736652.03 6736652.14 0.2651 0.1473 *

Neptune 13732-06-18 22:04 G 6736739.27 6736739.42 6736739.57 0.0089 0.0002

Neptune 13732-09-15 00:00 G 6736827.35 6736827.50 6736827.66 0.0089 0.0008

Neptune 13732-12-12 01:55 G 6736915.44 6736915.58 6736915.73 0.0089 0.0016

Neptune 13733-03-10 03:50 G 6737003.52 6737003.66 6737003.81 0.0089 0.0023

Mars 13733-03-14 15:21 G 6737008.11 6737008.14 6737008.18 0.1943 0.1844

Neptune 13733-06-06 06:00 G 6737091.61 6737091.75 6737091.89 0.0089 0.0031

Neptune 13733-09-02 07:40 G 6737179.69 6737179.82 6737179.96 0.0089 0.0038

Neptune 13733-11-29 09:21 G 6737267.78 6737267.89 6737268.03 0.0089 0.0047

Neptune 13734-02-25 11:31 G 6737355.87 6737355.98 6737356.10 0.0089 0.0054

Neptune 13734-05-24 13:12 G 6737443.96 6737444.05 6737444.17 0.0089 0.0062

Neptune 13734-08-20 15:21 G 6737532.05 6737532.14 6737532.24 0.0089 0.0069

Moon 13734-09-22 10:19 G 6737564.80 6737564.93 6737565.06 0.2687 0.0500

Earth 13734-09-22 10:48 G 6737564.82 6737564.95 6737565.09 0.2680 0.0358 *

Neptune 13734-11-16 17:02 G 6737620.14 6737620.21 6737620.30 0.0089 0.0076

Neptune 13735-02-12 18:57 G 6737708.25 6737708.29 6737708.35 0.0089 0.0084

Saturn 13735-03-13 14:38 G 6737737.09 6737737.11 6737737.15 0.0283 0.0277

Saturn 13735-06-10 06:57 G 6737825.67 6737825.79 6737825.92 0.0284 0.0163

Saturn 13735-09-06 23:31 G 6737914.33 6737914.48 6737914.64 0.0284 0.0047

Saturn 13735-12-04 16:33 G 6738003.04 6738003.19 6738003.35 0.0284 0.0074

Saturn 13736-03-02 10:04 G 6738091.80 6738091.92 6738092.03 0.0284 0.0197

Uranus 13736-05-30 00:28 G 6738180.51 6738180.52 6738180.54 0.0145 0.0144

Uranus 13736-08-26 06:43 G 6738268.69 6738268.78 6738268.87 0.0145 0.0119

Jupiter 13736-11-20 02:09 G 6738354.53 6738354.59 6738354.65 0.0488 0.0447

Uranus 13736-11-22 12:43 G 6738356.91 6738357.03 6738357.16 0.0145 0.0094

Jupiter 13737-02-17 17:02 G 6738444.06 6738444.21 6738444.36 0.0486 0.0122

Uranus 13737-02-18 18:57 G 6738445.15 6738445.29 6738445.45 0.0145 0.0068

Uranus 13737-05-18 01:26 G 6738533.40 6738533.56 6738533.72 0.0144 0.0042

Uranus 13737-08-14 07:55 G 6738621.66 6738621.83 6738621.99 0.0144 0.0017

Uranus 13737-11-10 14:09 G 6738709.92 6738710.09 6738710.26 0.0144 0.0010

Uranus 13738-02-06 20:38 G 6738798.20 6738798.36 6738798.53 0.0144 0.0036

Uranus 13738-05-06 03:07 G 6738886.48 6738886.63 6738886.79 0.0144 0.0062

Uranus 13738-08-02 09:36 G 6738974.77 6738974.90 6738975.04 0.0144 0.0089

Uranus 13738-10-29 16:04 G 6739063.08 6739063.17 6739063.28 0.0144 0.0116

Uranus 13739-01-25 23:02 G 6739151.44 6739151.46 6739151.48 0.0144 0.0143

Mars 13739-10-18 09:50 G 6739416.77 6739416.91 6739417.04 0.1591 0.0812

Mars 13742-08-04 21:36 G 6740438.30 6740438.40 6740438.51 0.1945 0.0888

Jupiter 13743-01-22 18:14 G 6740609.19 6740609.26 6740609.34 0.0540 0.0461

Jupiter 13743-04-22 11:16 G 6740698.85 6740698.97 6740699.10 0.0542 0.0268

Moon 13745-03-26 08:38 G 6741402.74 6741402.86 6741402.98 0.2658 0.0205

Earth 13745-03-26 08:52 G 6741402.75 6741402.87 6741402.99 0.2652 0.0172 *

Venus 13747-02-27 18:28 G 6742106.18 6742106.27 6742106.36 0.3686 0.2356

Earth 13747-09-25 11:31 G 6742315.88 6742315.98 6742316.08 0.2679 0.1850

Moon 13747-09-25 11:45 G 6742315.90 6742315.99 6742316.08 0.2685 0.1978 *

Jupiter 13748-12-06 18:57 G 6742754.14 6742754.29 6742754.45 0.0487 0.0021

Mars 13749-03-09 15:07 G 6742846.98 6742847.13 6742847.28 0.1590 0.0122

Saturn 13750-01-15 19:26 G 6743159.19 6743159.31 6743159.43 0.0275 0.0175

Saturn 13750-04-14 10:04 G 6743247.77 6743247.92 6743248.06 0.0275 0.0070

Saturn 13750-07-12 00:14 G 6743336.36 6743336.51 6743336.66 0.0275 0.0033

Saturn 13750-10-08 14:09 G 6743424.96 6743425.09 6743425.22 0.0275 0.0134

Saturn	13751-01-05 03:36 G	6743513.58	6743513.65	6743513.74	0.0275	0.0234
Mars	13751-12-26 03:21 G	6743868.52	6743868.64	6743868.77	0.1947	0.0131
Venus	13752-09-12 12:57 G	6744129.93	6744130.04	6744130.15	0.3687	0.0954
Venus	13754-03-26 22:04 G	6744690.32	6744690.42	6744690.52	0.3684	0.2260
Jupiter	13755-02-08 12:57 G	6745008.90	6745009.04	6745009.18	0.0542	0.0090
Earth	13758-03-29 04:48 G	6746153.61	6746153.70	6746153.79	0.2653	0.1767
Moon	13758-03-29 05:02 G	6746153.63	6746153.71	6746153.80	0.2659	0.1751 *
Venus	13758-03-29 07:12 G	6746153.69	6746153.80	6746153.92	0.3687	0.0415 *
Mars	13758-07-30 20:52 G	6746277.22	6746277.37	6746277.51	0.1589	0.0553
Venus	13759-10-10 21:50 G	6746714.28	6746714.41	6746714.54	0.3683	0.0288
Jupiter	13760-09-24 20:52 G	6747064.22	6747064.37	6747064.52	0.0487	0.0158
Jupiter	13760-12-23 12:43 G	6747153.95	6747154.03	6747154.11	0.0486	0.0423
Mars	13761-05-17 09:07 G	6747298.78	6747298.88	6747298.98	0.1948	0.1145
Venus	13763-10-13 01:26 G	6748177.46	6748177.56	6748177.66	0.3688	0.1711
Saturn	13764-10-27 07:26 G	6748557.70	6748557.81	6748557.92	0.0283	0.0198
Saturn	13765-01-23 23:45 G	6748646.35	6748646.49	6748646.65	0.0283	0.0084
Saturn	13765-04-22 16:33 G	6748735.04	6748735.19	6748735.35	0.0283	0.0037
Venus	13765-04-25 22:04 G	6748738.30	6748738.42	6748738.53	0.3683	0.1812
Saturn	13765-07-20 09:50 G	6748823.78	6748823.91	6748824.05	0.0283	0.0157
Saturn	13765-10-17 03:21 G	6748912.63	6748912.64	6748912.67	0.0284	0.0280
Jupiter	13766-11-27 14:52 G	6749318.98	6749319.12	6749319.26	0.0542	0.0082
Moon	13767-09-20 15:21 G	6749616.06	6749616.14	6749616.21	0.2685	0.2171
Earth	13767-09-20 16:19 G	6749616.09	6749616.18	6749616.26	0.2681	0.2053 *
Mars	13767-12-21 02:38 G	6749707.52	6749707.61	6749707.71	0.1588	0.1202
Venus	13769-04-27 19:12 G	6750201.24	6750201.30	6750201.36	0.3688	0.2971
Jupiter	13772-07-13 23:02 G	6751374.34	6751374.46	6751374.58	0.0487	0.0295
Jupiter	13772-10-11 14:24 G	6751463.97	6751464.10	6751464.23	0.0486	0.0279
Moon	13778-03-24 17:16 G	6753454.11	6753454.22	6753454.33	0.2654	0.1206
Earth	13778-03-24 18:00 G	6753454.14	6753454.25	6753454.36	0.2651	0.1122 *
Jupiter	13778-09-15 16:48 G	6753629.07	6753629.20	6753629.33	0.0541	0.0253

Jupiter 13778-12-14 09:21 G 6753718.82 6753718.89 6753718.96 0.0543 0.0469

Uranus 13779-03-11 17:45 G 6753806.17 6753806.24 6753806.31 0.0133 0.0117

Mars 13779-04-18 10:04 G 6753843.80 6753843.92 6753844.05 0.1591 0.0905

Saturn 13779-06-04 18:57 G 6753891.20 6753891.29 6753891.38 0.0275 0.0219

Uranus 13779-06-07 21:36 G 6753894.31 6753894.40 6753894.51 0.0134 0.0099

Saturn 13779-09-01 09:36 G 6753979.76 6753979.90 6753980.04 0.0275 0.0113

Uranus 13779-09-04 01:26 G 6753982.45 6753982.56 6753982.69 0.0134 0.0081

Saturn 13779-11-29 00:00 G 6754068.35 6754068.50 6754068.65 0.0275 0.0009

Uranus 13779-12-01 05:31 G 6754070.60 6754070.73 6754070.86 0.0134 0.0062

Saturn 13780-02-25 13:55 G 6754156.95 6754157.08 6754157.23 0.0275 0.0093

Uranus 13780-02-27 09:21 G 6754158.76 6754158.89 6754159.03 0.0134 0.0044

Saturn 13780-05-24 03:50 G 6754245.56 6754245.66 6754245.76 0.0275 0.0192

Uranus 13780-05-25 13:12 G 6754246.91 6754247.05 6754247.20 0.0134 0.0027

Uranus 13780-08-21 17:16 G 6754335.07 6754335.22 6754335.36 0.0134 0.0009

Moon 13780-09-22 16:04 G 6754367.03 6754367.17 6754367.30 0.2686 0.0067

Earth 13780-09-22 16:33 G 6754367.05 6754367.19 6754367.33 0.2680 0.0083 *

Uranus 13780-11-17 20:52 G 6754423.23 6754423.37 6754423.52 0.0134 0.0011

Uranus 13781-02-14 00:43 G 6754511.39 6754511.53 6754511.67 0.0134 0.0027

Uranus 13781-05-13 04:19 G 6754599.55 6754599.68 6754599.82 0.0134 0.0045

Uranus 13781-08-09 08:09 G 6754687.72 6754687.84 6754687.97 0.0134 0.0062

Uranus 13781-11-05 11:45 G 6754775.88 6754775.99 6754776.11 0.0134 0.0080

Uranus 13782-02-01 15:21 G 6754864.05 6754864.14 6754864.25 0.0134 0.0097

Mars 13782-02-02 21:50 G 6754865.30 6754865.41 6754865.51 0.1945 0.0980

Uranus 13782-04-30 19:12 G 6754952.23 6754952.30 6754952.38 0.0134 0.0114

Uranus 13782-07-27 22:48 G 6755040.43 6755040.45 6755040.48 0.0134 0.0131

Jupiter 13784-05-02 00:43 G 6755684.47 6755684.53 6755684.60 0.0488 0.0437

Jupiter 13784-07-30 15:50 G 6755774.01 6755774.16 6755774.31 0.0486 0.0132

Mars 13788-09-07 15:36 G 6757274.00 6757274.15 6757274.30 0.1590 0.0218

Jupiter 13790-07-04 18:14 G 6757939.17 6757939.26 6757939.34 0.0540 0.0433

Jupiter 13790-10-02 11:16 G 6758028.85 6758028.97 6758029.08 0.0542 0.0296

Moon	13791-03-27 13:55 G	6758204.96	6758205.08	6758205.20	0.2659	0.0446
Earth	13791-03-27 14:09 G	6758204.97	6758205.09	6758205.20	0.2652	0.0517 *
Mars	13791-06-26 03:36 G	6758295.53	6758295.65	6758295.77	0.1947	0.0030
Earth	13793-09-25 17:16 G	6759118.15	6759118.22	6759118.29	0.2679	0.2296
Moon	13793-09-25 17:45 G	6759118.17	6759118.24	6759118.31	0.2686	0.2306 *
Saturn	13794-03-16 06:57 G	6759289.71	6759289.79	6759289.87	0.0283	0.0241
Saturn	13794-06-12 23:16 G	6759378.33	6759378.47	6759378.61	0.0283	0.0126
Saturn	13794-09-09 16:04 G	6759467.01	6759467.17	6759467.32	0.0283	0.0011
Saturn	13794-12-07 09:07 G	6759555.73	6759555.88	6759556.02	0.0283	0.0112
Saturn	13795-03-06 02:38 G	6759644.52	6759644.61	6759644.70	0.0283	0.0235
Jupiter	13796-05-18 17:45 G	6760084.08	6760084.24	6760084.40	0.0487	0.0008
Mars	13798-01-28 21:07 G	6760704.24	6760704.38	6760704.53	0.1589	0.0457
Venus	13798-03-20 21:50 G	6760755.37	6760755.41	6760755.46	0.3686	0.3359
Mars	13800-11-16 09:07 G	6761725.78	6761725.88	6761725.99	0.1948	0.1048
Jupiter	13802-07-22 11:45 G	6762338.85	6762338.99	6762339.13	0.0542	0.0100
Venus	13803-10-05 16:48 G	6762779.10	6762779.20	6762779.29	0.3686	0.1919
Earth	13804-03-30 09:50 G	6762955.84	6762955.91	6762955.99	0.2653	0.2100
Moon	13804-03-30 10:19 G	6762955.87	6762955.93	6762956.00	0.2658	0.2230 *
Venus	13805-04-17 22:19 G	6763339.41	6763339.43	6763339.46	0.3684	0.3570
Mars	13807-06-22 03:07 G	6764134.52	6764134.63	6764134.73	0.1588	0.1113
Jupiter	13808-03-07 19:40 G	6764394.18	6764394.32	6764394.48	0.0488	0.0148
Jupiter	13808-06-05 11:31 G	6764483.92	6764483.98	6764484.05	0.0486	0.0435
Saturn	13808-10-22 21:21 G	6764623.32	6764623.39	6764623.46	0.0276	0.0243
Saturn	13809-01-19 12:00 G	6764711.88	6764712.00	6764712.14	0.0276	0.0137
Saturn	13809-04-18 02:38 G	6764800.46	6764800.61	6764800.76	0.0276	0.0031
Venus	13809-04-20 11:16 G	6764802.85	6764802.97	6764803.08	0.3687	0.0545
Saturn	13809-07-15 16:48 G	6764889.06	6764889.20	6764889.34	0.0276	0.0071
Saturn	13809-10-12 06:43 G	6764977.66	6764977.78	6764977.89	0.0275	0.0172
Saturn	13810-01-08 20:09 G	6765066.32	6765066.34	6765066.37	0.0275	0.0270
Venus	13810-11-01 21:36 G	6765363.29	6765363.40	6765363.52	0.3684	0.1674

Moon 13811-03-24 01:55 G 6765505.57 6765505.58 6765505.60 0.2650 0.2620

Earth 13811-03-24 02:52 G 6765505.58 6765505.62 6765505.67 0.2650 0.2441 *

Neptune 13811-07-21 02:09 G 6765624.57 6765624.59 6765624.62 0.0088 0.0087

Neptune 13811-10-17 04:04 G 6765712.62 6765712.67 6765712.76 0.0088 0.0079

Neptune 13812-01-13 06:28 G 6765800.69 6765800.77 6765800.88 0.0088 0.0071

Neptune 13812-04-10 08:52 G 6765888.76 6765888.87 6765888.99 0.0088 0.0063

Neptune 13812-07-07 11:16 G 6765976.84 6765976.97 6765977.09 0.0088 0.0055

Neptune 13812-10-03 13:12 G 6766064.93 6766065.05 6766065.20 0.0088 0.0048

Neptune 13812-12-30 15:36 G 6766153.01 6766153.15 6766153.30 0.0088 0.0040

Neptune 13813-03-28 18:00 G 6766241.10 6766241.25 6766241.40 0.0088 0.0032

Neptune 13813-06-24 20:09 G 6766329.19 6766329.34 6766329.50 0.0088 0.0024

Neptune 13813-09-20 22:33 G 6766417.28 6766417.44 6766417.60 0.0088 0.0016

Moon 13813-09-21 21:07 G 6766418.28 6766418.38 6766418.48 0.2686 0.1792

Earth 13813-09-21 22:04 G 6766418.31 6766418.42 6766418.52 0.2681 0.1625 *

Neptune 13813-12-18 00:57 G 6766505.38 6766505.54 6766505.70 0.0088 0.0008

Neptune 13814-03-16 03:21 G 6766593.47 6766593.64 6766593.80 0.0088 0.0002

Jupiter 13814-05-10 13:12 G 6766648.91 6766649.05 6766649.19 0.0541 0.0082

Neptune 13814-06-12 05:31 G 6766681.57 6766681.73 6766681.90 0.0088 0.0008

Neptune 13814-09-08 07:55 G 6766769.67 6766769.83 6766769.99 0.0088 0.0016

Venus 13814-11-04 05:31 G 6766826.62 6766826.73 6766826.84 0.3688 0.0817

Neptune 13814-12-05 10:19 G 6766857.77 6766857.93 6766858.09 0.0088 0.0024

Neptune 13815-03-03 12:28 G 6766945.87 6766946.02 6766946.18 0.0088 0.0032

Neptune 13815-05-30 15:07 G 6767033.98 6767034.13 6767034.27 0.0088 0.0040

Neptune 13815-08-26 17:02 G 6767122.09 6767122.21 6767122.36 0.0088 0.0049

Neptune 13815-11-22 19:26 G 6767210.20 6767210.31 6767210.45 0.0088 0.0057

Neptune 13816-02-18 21:50 G 6767298.31 6767298.41 6767298.54 0.0088 0.0065

Neptune 13816-05-17 00:28 G 6767386.44 6767386.52 6767386.62 0.0088 0.0073

Venus 13816-05-17 21:36 G 6767387.27 6767387.40 6767387.53 0.3683 0.0348

Neptune 13816-08-13 02:38 G 6767474.57 6767474.61 6767474.69 0.0088 0.0082

Mars 13818-10-18 10:33 G 6768270.82 6768270.94 6768271.05 0.1591 0.0998

Jupiter 13819-12-25 21:50 G 6768704.28 6768704.41 6768704.53 0.0488 0.0286

Jupiter 13820-03-24 13:12 G 6768793.92 6768794.05 6768794.18 0.0486 0.0289

Venus 13820-05-19 23:31 G 6768850.39 6768850.48 6768850.57 0.3688 0.2107

Uranus 13820-06-20 07:26 G 6768881.77 6768881.81 6768881.86 0.0145 0.0139

Uranus 13820-09-16 13:40 G 6768969.97 6768970.07 6768970.18 0.0145 0.0114

Uranus 13820-12-13 19:40 G 6769058.20 6769058.32 6769058.46 0.0145 0.0089

Uranus 13821-03-12 02:09 G 6769146.44 6769146.59 6769146.74 0.0145 0.0063

Uranus 13821-06-08 08:24 G 6769234.69 6769234.85 6769235.02 0.0145 0.0037

Mars 13821-08-04 21:50 G 6769292.31 6769292.41 6769292.51 0.1945 0.1075

Uranus 13821-09-04 14:52 G 6769322.95 6769323.12 6769323.29 0.0144 0.0011

Uranus 13821-12-01 21:21 G 6769411.22 6769411.39 6769411.56 0.0144 0.0015

Venus 13821-12-01 21:50 G 6769411.31 6769411.41 6769411.51 0.3682 0.2466 *

Uranus 13822-02-28 03:36 G 6769499.49 6769499.65 6769499.82 0.0144 0.0042

Uranus 13822-05-27 10:04 G 6769587.78 6769587.92 6769588.08 0.0144 0.0068

Uranus 13822-08-23 16:48 G 6769676.07 6769676.20 6769676.33 0.0144 0.0095

Uranus 13822-11-19 23:16 G 6769764.38 6769764.47 6769764.57 0.0144 0.0121

Saturn 13823-08-04 07:55 G 6770021.80 6770021.83 6770021.87 0.0283 0.0273

Saturn 13823-11-01 00:00 G 6770110.38 6770110.50 6770110.63 0.0283 0.0160

Saturn 13824-01-28 16:33 G 6770199.04 6770199.19 6770199.35 0.0283 0.0044

Moon 13824-03-25 22:33 G 6770256.33 6770256.44 6770256.56 0.2656 0.0845

Earth 13824-03-25 23:16 G 6770256.35 6770256.47 6770256.58 0.2651 0.0779 *

Saturn 13824-04-26 09:36 G 6770287.75 6770287.90 6770288.05 0.0283 0.0076

Saturn 13824-07-24 02:52 G 6770376.51 6770376.62 6770376.73 0.0283 0.0197

Venus 13825-12-03 17:16 G 6770874.18 6770874.22 6770874.26 0.3689 0.3354

Jupiter 13826-02-26 14:52 G 6770958.99 6770959.12 6770959.24 0.0541 0.0258

Jupiter 13826-05-27 07:26 G 6771048.74 6771048.81 6771048.88 0.0543 0.0465

Moon 13826-09-24 22:04 G 6771169.29 6771169.42 6771169.55 0.2686 0.0472

Earth 13826-09-24 22:19 G 6771169.30 6771169.43 6771169.56 0.2680 0.0523 *

Mars 13828-03-09 15:50 G 6771701.01 6771701.16 6771701.31 0.1590 0.0311

Pluto 13828-08-13 10:48 G 6771857.94 6771857.95 6771857.99 0.0071 0.0070

Pluto	13828-11-09 11:45 G	6771945.93	6771945.99	6771946.06	0.0071	0.0060
Pluto	13829-02-05 12:28 G	6772033.93	6772034.02	6772034.11	0.0071	0.0051
Pluto	13829-05-04 12:57 G	6772121.94	6772122.04	6772122.16	0.0071	0.0042
Pluto	13829-07-31 13:40 G	6772209.96	6772210.07	6772210.20	0.0071	0.0033
Pluto	13829-10-27 14:38 G	6772297.98	6772298.11	6772298.24	0.0071	0.0024
Pluto	13830-01-23 15:21 G	6772386.01	6772386.14	6772386.27	0.0071	0.0014
Pluto	13830-04-21 16:04 G	6772474.03	6772474.17	6772474.30	0.0072	0.0005
Pluto	13830-07-18 16:48 G	6772562.06	6772562.20	6772562.33	0.0072	0.0005
Pluto	13830-10-14 17:31 G	6772650.10	6772650.23	6772650.36	0.0072	0.0014
Mars	13830-12-26 03:50 G	6772722.54	6772722.66	6772722.78	0.1947	0.0086
Pluto	13831-01-10 18:00 G	6772738.13	6772738.25	6772738.39	0.0072	0.0024
Pluto	13831-04-08 18:57 G	6772826.17	6772826.29	6772826.41	0.0072	0.0033
Pluto	13831-07-05 19:40 G	6772914.22	6772914.32	6772914.43	0.0072	0.0043
Pluto	13831-10-01 20:09 G	6773002.26	6773002.34	6773002.44	0.0072	0.0054
Jupiter	13831-10-14 00:00 G	6773014.43	6773014.50	6773014.58	0.0488	0.0422
Pluto	13831-12-28 20:52 G	6773090.32	6773090.37	6773090.45	0.0072	0.0064
Jupiter	13832-01-11 14:52 G	6773103.97	6773104.12	6773104.28	0.0486	0.0147
Moon	13837-03-28 19:12 G	6775007.18	6775007.30	6775007.41	0.2659	0.0876
Earth	13837-03-28 19:12 G	6775007.19	6775007.30	6775007.42	0.2652	0.0852 *
Mars	13837-07-30 21:36 G	6775131.25	6775131.40	6775131.55	0.1589	0.0362
Jupiter	13837-12-15 16:33 G	6775269.11	6775269.19	6775269.28	0.0541	0.0430
Jupiter	13838-03-15 09:36 G	6775358.79	6775358.90	6775359.02	0.0543	0.0300
Saturn	13838-06-08 11:45 G	6775443.88	6775443.99	6775444.11	0.0275	0.0179
Saturn	13838-09-05 02:24 G	6775532.45	6775532.60	6775532.75	0.0275	0.0074
Saturn	13838-12-02 16:33 G	6775621.05	6775621.19	6775621.34	0.0275	0.0031
Saturn	13839-03-01 06:28 G	6775709.65	6775709.77	6775709.91	0.0275	0.0131
Saturn	13839-05-28 20:09 G	6775798.27	6775798.34	6775798.43	0.0275	0.0230
Mars	13840-05-17 09:21 G	6776152.78	6776152.89	6776153.00	0.1948	0.0945
Jupiter	13843-10-30 16:33 G	6777414.03	6777414.19	6777414.35	0.0487	0.0008
Mars	13846-12-21 03:21 G	6778561.53	6778561.64	6778561.76	0.1588	0.1022

Jupiter 13850-01-01 11:31 G 6779668.84 6779668.98 6779669.12 0.0542 0.0125

Earth 13850-03-31 15:07 G 6779758.08 6779758.13 6779758.17 0.2653 0.2432

Moon 13850-03-31 15:36 G 6779758.11 6779758.15 6779758.19 0.2657 0.2477 *

Saturn 13853-03-19 23:31 G 6780842.37 6780842.48 6780842.59 0.0283 0.0203

Saturn 13853-06-16 15:50 G 6780931.02 6780931.16 6780931.31 0.0283 0.0088

Saturn 13853-09-13 08:38 G 6781019.71 6781019.86 6781020.02 0.0283 0.0031

Saturn 13853-12-11 01:55 G 6781108.44 6781108.58 6781108.72 0.0283 0.0152

Saturn 13854-03-09 19:26 G 6781197.28 6781197.31 6781197.35 0.0283 0.0275

Venus 13854-10-26 20:24 G 6781428.28 6781428.35 6781428.42 0.3686 0.2907

Jupiter 13855-08-18 18:28 G 6781724.12 6781724.27 6781724.42 0.0487 0.0139

Jupiter 13855-11-16 10:19 G 6781813.87 6781813.93 6781813.99 0.0486 0.0443

Moon 13857-03-24 07:12 G 6782307.73 6782307.80 6782307.87 0.2650 0.2159

Earth 13857-03-24 08:09 G 6782307.76 6782307.84 6782307.91 0.2650 0.2090 *

Mars 13858-04-18 11:02 G 6782697.85 6782697.96 6782698.07 0.1591 0.1099

Moon 13859-09-23 02:38 G 6783220.50 6783220.61 6783220.73 0.2686 0.1267

Earth 13859-09-23 03:36 G 6783220.53 6783220.65 6783220.78 0.2681 0.1194 *

Venus 13860-05-11 15:07 G 6783452.02 6783452.13 6783452.23 0.3687 0.1491

Mars 13861-02-02 22:04 G 6783719.32 6783719.42 6783719.51 0.1945 0.1177

Jupiter 13861-10-20 12:00 G 6783978.86 6783979.00 6783979.14 0.0541 0.0071

Venus 13861-11-22 21:50 G 6784012.34 6784012.41 6784012.49 0.3684 0.3002

Uranus 13863-01-03 20:38 G 6784419.34 6784419.36 6784419.38 0.0133 0.0132

Uranus 13863-04-02 00:28 G 6784507.45 6784507.52 6784507.60 0.0133 0.0114

Uranus 13863-06-29 04:19 G 6784595.59 6784595.68 6784595.79 0.0134 0.0096

Uranus 13863-09-25 08:09 G 6784683.73 6784683.84 6784683.97 0.0134 0.0078

Uranus 13863-12-22 12:28 G 6784771.88 6784772.02 6784772.15 0.0134 0.0059

Uranus 13864-03-19 16:19 G 6784860.04 6784860.18 6784860.32 0.0134 0.0041

Uranus 13864-06-15 20:09 G 6784948.19 6784948.34 6784948.48 0.0134 0.0023

Uranus 13864-09-12 00:00 G 6785036.35 6785036.50 6785036.64 0.0134 0.0006

Uranus 13864-12-09 03:50 G 6785124.51 6785124.66 6785124.80 0.0134 0.0013

Uranus 13865-03-07 07:26 G 6785212.67 6785212.81 6785212.96 0.0134 0.0030

Uranus 13865-06-03 11:16 G 6785300.84 6785300.97 6785301.11 0.0134 0.0048

Uranus 13865-08-30 14:52 G 6785389.00 6785389.12 6785389.25 0.0134 0.0065

Venus 13865-11-25 09:21 G 6785475.78 6785475.89 6785476.01 0.3687 0.0133

Uranus 13865-11-26 18:28 G 6785477.17 6785477.27 6785477.39 0.0134 0.0083

Uranus 13866-02-22 22:04 G 6785565.34 6785565.42 6785565.53 0.0134 0.0100

Uranus 13866-05-22 01:55 G 6785653.52 6785653.58 6785653.65 0.0134 0.0117

Uranus 13866-08-18 05:31 G 6785741.73 6785741.73 6785741.74 0.0134 0.0134

Jupiter 13867-06-06 20:38 G 6786034.23 6786034.36 6786034.48 0.0488 0.0277

Venus 13867-06-08 21:21 G 6786036.26 6786036.39 6786036.51 0.3684 0.1077

Jupiter 13867-09-04 12:00 G 6786123.87 6786124.00 6786124.12 0.0486 0.0300

Mars 13867-09-08 16:19 G 6786128.03 6786128.18 6786128.33 0.1590 0.0407

Saturn 13867-10-26 13:55 G 6786175.99 6786176.08 6786176.19 0.0276 0.0204

Saturn 13868-01-23 04:48 G 6786264.56 6786264.70 6786264.84 0.0276 0.0097

Saturn 13868-04-20 19:12 G 6786353.15 6786353.30 6786353.45 0.0276 0.0007

Saturn 13868-07-18 09:21 G 6786441.75 6786441.89 6786442.02 0.0276 0.0109

Saturn 13868-10-14 23:02 G 6786530.37 6786530.46 6786530.56 0.0276 0.0209

Moon 13870-03-27 03:50 G 6787058.54 6787058.66 6787058.78 0.2657 0.0532

Earth 13870-03-27 04:19 G 6787058.56 6787058.68 6787058.80 0.2651 0.0430 *

Mars 13870-06-26 03:50 G 6787149.54 6787149.66 6787149.78 0.1947 0.0179

Venus 13871-06-11 03:36 G 6787499.54 6787499.65 6787499.76 0.3688 0.1219

Moon 13872-09-25 04:04 G 6787971.54 6787971.67 6787971.79 0.2687 0.0952

Earth 13872-09-25 04:04 G 6787971.54 6787971.67 6787971.80 0.2680 0.0965 *

Venus 13872-12-22 21:21 G 6788060.26 6788060.39 6788060.52 0.3683 0.0973

Jupiter 13873-08-08 13:12 G 6788288.92 6788289.05 6788289.18 0.0540 0.0256

Jupiter 13873-11-06 05:31 G 6788378.67 6788378.73 6788378.81 0.0542 0.0465

Venus 13876-12-24 21:36 G 6789523.32 6789523.40 6789523.48 0.3688 0.2495

Mars 13877-01-28 21:50 G 6789558.26 6789558.41 6789558.56 0.1589 0.0277

Venus 13878-07-08 21:50 G 6790084.34 6790084.41 6790084.48 0.3682 0.3118

Jupiter 13879-03-25 22:33 G 6790344.36 6790344.44 6790344.52 0.0488 0.0415

Jupiter 13879-06-23 13:26 G 6790433.91 6790434.06 6790434.22 0.0487 0.0156

Mars 13879-11-16 09:36 G 6790579.78 6790579.90 6790580.01 0.1949 0.0847

Saturn 13882-08-07 00:57 G 6791574.46 6791574.54 6791574.63 0.0283 0.0232

Saturn 13882-11-03 17:16 G 6791663.08 6791663.22 6791663.36 0.0283 0.0119

Saturn 13883-01-31 09:50 G 6791751.75 6791751.91 6791752.07 0.0283 0.0003

Moon 13883-03-30 00:28 G 6791809.41 6791809.52 6791809.62 0.2658 0.1195

Earth 13883-03-30 00:28 G 6791809.41 6791809.52 6791809.62 0.2652 0.1192 *

Saturn 13883-04-30 02:52 G 6791840.47 6791840.62 6791840.76 0.0283 0.0118

Saturn 13883-07-27 20:09 G 6791929.26 6791929.34 6791929.43 0.0283 0.0241

Jupiter 13885-05-27 14:38 G 6792599.02 6792599.11 6792599.19 0.0540 0.0436

Jupiter 13885-08-25 07:40 G 6792688.70 6792688.82 6792688.94 0.0542 0.0295

Mars 13886-06-21 03:50 G 6792988.54 6792988.66 6792988.78 0.1588 0.0930

Mars 13889-04-07 14:52 G 6794010.10 6794010.12 6794010.15 0.1949 0.1893

Jupiter 13891-04-11 15:21 G 6794743.99 6794744.14 6794744.30 0.0487 0.0020

Neptune 13894-07-21 23:16 G 6795941.43 6795941.47 6795941.54 0.0089 0.0084

Neptune 13894-10-18 01:26 G 6796029.49 6796029.56 6796029.65 0.0089 0.0075

Neptune 13895-01-14 03:21 G 6796117.56 6796117.64 6796117.76 0.0089 0.0068

Neptune 13895-04-12 05:31 G 6796205.63 6796205.73 6796205.86 0.0089 0.0060

Neptune 13895-07-09 07:40 G 6796293.70 6796293.82 6796293.95 0.0089 0.0051

Neptune 13895-10-05 09:36 G 6796381.78 6796381.90 6796382.05 0.0089 0.0044

Mars 13895-11-11 10:04 G 6796418.90 6796418.92 6796418.93 0.1587 0.1574

Neptune 13896-01-01 11:45 G 6796469.86 6796469.99 6796470.14 0.0089 0.0035

Neptune 13896-03-29 13:55 G 6796557.93 6796558.08 6796558.22 0.0089 0.0027

Neptune 13896-06-25 15:50 G 6796646.01 6796646.16 6796646.31 0.0089 0.0020

Neptune 13896-09-21 17:45 G 6796734.09 6796734.24 6796734.40 0.0089 0.0012

Neptune 13896-12-18 19:55 G 6796822.18 6796822.33 6796822.48 0.0089 0.0004

Saturn 13897-03-14 13:55 G 6796908.02 6796908.08 6796908.15 0.0275 0.0245

Neptune 13897-03-16 21:50 G 6796910.26 6796910.41 6796910.56 0.0089 0.0004

Saturn 13897-06-11 04:48 G 6796996.57 6796996.70 6796996.83 0.0275 0.0138

Neptune 13897-06-12 23:45 G 6796998.34 6796998.49 6796998.64 0.0089 0.0012

Jupiter 13897-06-13 09:50 G 6796998.77 6796998.91 6796999.05 0.0542 0.0127

Saturn 13897-09-07 19:26 G 6797085.16 6797085.31 6797085.46 0.0275 0.0034

Neptune 13897-09-09 01:40 G 6797086.43 6797086.57 6797086.72 0.0089 0.0020

Mars 13897-10-17 11:31 G 6797124.88 6797124.98 6797125.08 0.1591 0.1197

Saturn 13897-12-05 09:36 G 6797173.75 6797173.90 6797174.04 0.0275 0.0070

Neptune 13897-12-06 03:36 G 6797174.51 6797174.65 6797174.80 0.0089 0.0027

Saturn 13898-03-03 23:16 G 6797262.36 6797262.47 6797262.59 0.0275 0.0171

Neptune 13898-03-04 05:16 G 6797262.60 6797262.72 6797262.87 0.0089 0.0036

Neptune 13898-05-31 07:26 G 6797350.68 6797350.81 6797350.95 0.0089 0.0043

Saturn 13898-05-31 12:57 G 6797351.01 6797351.04 6797351.07 0.0275 0.0268

Neptune 13898-08-27 09:21 G 6797438.77 6797438.89 6797439.02 0.0089 0.0050

Neptune 13898-11-23 11:16 G 6797526.86 6797526.97 6797527.09 0.0089 0.0058

Neptune 13899-02-19 12:57 G 6797614.95 6797615.04 6797615.16 0.0089 0.0066

Neptune 13899-05-18 15:07 G 6797703.05 6797703.13 6797703.22 0.0089 0.0073

Neptune 13899-08-14 16:48 G 6797791.15 6797791.20 6797791.28 0.0089 0.0080

Neptune 13899-11-10 18:43 G 6797879.26 6797879.28 6797879.32 0.0089 0.0088

Mars 13900-08-04 22:04 G 6798146.33 6798146.42 6798146.52 0.1945 0.1282

Jupiter 13903-01-29 17:02 G 6799054.06 6799054.21 6799054.36 0.0487 0.0131

Moon 13903-03-26 12:28 G 6799109.94 6799110.02 6799110.10 0.2652 0.1919

Earth 13903-03-26 13:12 G 6799109.96 6799110.05 6799110.14 0.2650 0.1738 *

Jupiter 13903-04-29 08:52 G 6799143.81 6799143.87 6799143.93 0.0486 0.0450

Uranus 13904-07-11 14:38 G 6799583.05 6799583.11 6799583.18 0.0145 0.0133

Uranus 13904-10-07 20:52 G 6799671.26 6799671.37 6799671.48 0.0145 0.0108

Uranus 13905-01-04 02:52 G 6799759.49 6799759.62 6799759.77 0.0145 0.0083

Uranus 13905-04-02 09:21 G 6799847.74 6799847.89 6799848.04 0.0145 0.0057

Uranus 13905-06-29 15:36 G 6799935.99 6799936.15 6799936.32 0.0145 0.0031

Moon 13905-09-24 08:38 G 6800022.73 6800022.86 6800022.98 0.2686 0.0935

Earth 13905-09-24 09:21 G 6800022.76 6800022.89 6800023.02 0.2681 0.0762 *

Uranus 13905-09-25 22:04 G 6800024.25 6800024.42 6800024.59 0.0145 0.0006

Uranus 13905-12-23 04:19 G 6800112.52 6800112.68 6800112.85 0.0144 0.0021

Uranus 13906-03-21 10:48 G 6800200.79 6800200.95 6800201.11 0.0144 0.0047

Uranus 13906-06-17 17:16 G 6800289.08 6800289.22 6800289.37 0.0144 0.0074

Uranus 13906-09-13 23:45 G 6800377.37 6800377.49 6800377.62 0.0144 0.0100

Uranus 13906-12-11 06:14 G 6800465.69 6800465.76 6800465.85 0.0144 0.0127

Mars 13907-03-10 16:48 G 6800555.05 6800555.20 6800555.34 0.1590 0.0502

Jupiter 13909-04-02 11:31 G 6801308.83 6801308.98 6801309.12 0.0541 0.0050

Mars 13909-12-26 04:04 G 6801576.55 6801576.67 6801576.79 0.1947 0.0282

Venus 13911-06-03 18:43 G 6802101.19 6802101.28 6802101.36 0.3686 0.2462

Saturn 13911-12-26 00:14 G 6802306.48 6802306.51 6802306.55 0.0283 0.0276

Saturn 13912-03-23 16:19 G 6802395.06 6802395.18 6802395.31 0.0283 0.0163

Saturn 13912-06-20 08:52 G 6802483.72 6802483.87 6802484.03 0.0283 0.0047

Saturn 13912-09-17 01:40 G 6802572.42 6802572.57 6802572.73 0.0283 0.0073

Saturn 13912-12-14 18:57 G 6802661.18 6802661.29 6802661.41 0.0283 0.0194

Pluto 13914-04-04 23:02 G 6803137.40 6803137.46 6803137.57 0.0073 0.0066

Pluto 13914-07-02 01:40 G 6803225.44 6803225.57 6803225.72 0.0073 0.0051

Pluto 13914-09-28 03:50 G 6803313.51 6803313.66 6803313.85 0.0073 0.0037

Jupiter 13914-11-17 19:12 G 6803364.17 6803364.30 6803364.43 0.0488 0.0269

Pluto 13914-12-25 06:28 G 6803401.59 6803401.77 6803401.96 0.0073 0.0021

Jupiter 13915-02-15 10:33 G 6803453.82 6803453.94 6803454.06 0.0486 0.0307

Pluto 13915-03-23 08:52 G 6803489.68 6803489.87 6803490.06 0.0073 0.0007

Pluto 13915-06-19 11:16 G 6803577.78 6803577.97 6803578.16 0.0073 0.0007

Pluto 13915-09-15 13:12 G 6803665.88 6803666.05 6803666.24 0.0073 0.0022

Pluto 13915-12-12 15:21 G 6803753.99 6803754.14 6803754.32 0.0073 0.0036

Pluto 13916-03-09 17:31 G 6803842.11 6803842.23 6803842.39 0.0072 0.0050

Moon 13916-03-28 09:07 G 6803860.76 6803860.88 6803861.00 0.2658 0.0108

Earth 13916-03-28 09:36 G 6803860.77 6803860.90 6803861.02 0.2651 0.0111 *

Pluto 13916-06-05 20:09 G 6803930.25 6803930.34 6803930.43 0.0072 0.0063

Mars 13916-07-30 22:19 G 6803985.28 6803985.43 6803985.59 0.1589 0.0181

Venus 13916-12-17 13:12 G 6804124.94 6804125.05 6804125.16 0.3687 0.1062

Venus 13918-06-30 21:21 G 6804685.30 6804685.39 6804685.49 0.3684 0.2433

Earth 13918-09-27 09:50 G 6804773.79 6804773.91 6804774.02 0.2680 0.1413

Moon 13918-09-27 09:50 G 6804773.80 6804773.91 6804774.03 0.2687 0.1483 *

Mars 13919-05-18 09:36 G 6805006.79 6805006.90 6805007.02 0.1948 0.0744

Jupiter 13921-01-19 12:00 G 6805618.87 6805619.00 6805619.13 0.0540 0.0245

Jupiter 13921-04-19 04:19 G 6805708.62 6805708.68 6805708.75 0.0542 0.0474

Venus 13922-07-03 07:40 G 6806148.70 6806148.82 6806148.93 0.3688 0.0320

Venus 13924-01-14 20:52 G 6806709.24 6806709.37 6806709.50 0.3683 0.0486

Mars 13925-12-21 04:04 G 6807415.55 6807415.67 6807415.80 0.1588 0.0843

Saturn 13926-08-02 16:04 G 6807640.15 6807640.17 6807640.20 0.0276 0.0271

Jupiter 13926-09-05 21:07 G 6807674.30 6807674.38 6807674.47 0.0489 0.0409

Saturn 13926-10-30 06:57 G 6807728.67 6807728.79 6807728.92 0.0276 0.0163

Jupiter 13926-12-04 12:14 G 6807763.86 6807764.01 6807764.16 0.0487 0.0163

Saturn 13927-01-26 21:50 G 6807817.26 6807817.41 6807817.55 0.0276 0.0057

Saturn 13927-04-25 12:00 G 6807905.85 6807906.00 6807906.15 0.0276 0.0047

Saturn 13927-07-23 01:55 G 6807994.46 6807994.58 6807994.71 0.0276 0.0149

Saturn 13927-10-19 15:36 G 6808083.09 6808083.15 6808083.22 0.0276 0.0248

Venus 13928-01-17 01:40 G 6808172.47 6808172.57 6808172.67 0.3688 0.1611

Mars 13928-10-07 14:52 G 6808437.08 6808437.12 6808437.17 0.1949 0.1803

Earth 13929-03-31 05:31 G 6808611.63 6808611.73 6808611.83 0.2652 0.1526

Moon 13929-03-31 05:45 G 6808611.64 6808611.74 6808611.84 0.2658 0.1548 *

Venus 13929-07-30 21:07 G 6808733.26 6808733.38 6808733.50 0.3683 0.1601

Jupiter 13932-11-07 12:57 G 6809928.95 6809929.04 6809929.12 0.0540 0.0433

Jupiter 13933-02-05 06:00 G 6810018.63 6810018.75 6810018.87 0.0542 0.0295

Venus 13933-08-01 19:40 G 6810196.25 6810196.32 6810196.38 0.3689 0.2886

Mars 13935-05-13 10:19 G 6810845.88 6810845.93 6810845.98 0.1587 0.1488

Mars 13937-04-18 11:45 G 6811551.90 6811551.99 6811552.08 0.1591 0.1288

Jupiter 13938-09-22 13:55 G 6812073.92 6812074.08 6812074.24 0.0487 0.0020

Moon 13938-09-22 13:40 G 6812074.07 6812074.07 6812074.08 0.2684 0.2679 *

Earth 13938-09-22 14:52 G 6812074.07 6812074.12 6812074.17 0.2682 0.2441 *

Mars 13940-02-03 22:04 G 6812573.34 6812573.42 6812573.51 0.1945 0.1369

Saturn 13941-08-10 18:28 G 6813127.16 6813127.27 6813127.38 0.0283 0.0189

Saturn 13941-11-07 10:48 G 6813215.80 6813215.95 6813216.10 0.0283 0.0074

Saturn 13942-02-04 03:36 G 6813304.49 6813304.65 6813304.80 0.0283 0.0044

Saturn 13942-05-03 20:38 G 6813393.23 6813393.36 6813393.49 0.0283 0.0165

Jupiter 13944-11-24 07:40 G 6814328.68 6814328.82 6814328.96 0.0542 0.0120

Mars 13946-09-08 17:16 G 6814982.07 6814982.22 6814982.36 0.1590 0.0598

Uranus 13947-01-25 03:21 G 6815120.61 6815120.64 6815120.69 0.0133 0.0128

Uranus 13947-04-23 07:26 G 6815208.73 6815208.81 6815208.90 0.0134 0.0110

Uranus 13947-07-20 11:16 G 6815296.87 6815296.97 6815297.09 0.0134 0.0092

Uranus 13947-10-16 15:21 G 6815385.02 6815385.14 6815385.27 0.0134 0.0073

Uranus 13948-01-12 19:12 G 6815473.17 6815473.30 6815473.44 0.0134 0.0056

Uranus 13948-04-09 23:02 G 6815561.33 6815561.46 6815561.61 0.0134 0.0038

Uranus 13948-07-07 03:07 G 6815649.48 6815649.63 6815649.77 0.0134 0.0020

Uranus 13948-10-03 06:57 G 6815737.64 6815737.79 6815737.93 0.0134 0.0004

Uranus 13948-12-30 10:33 G 6815825.80 6815825.94 6815826.09 0.0134 0.0016

Moon 13949-03-26 17:45 G 6815912.14 6815912.24 6815912.34 0.2654 0.1418

Earth 13949-03-26 18:28 G 6815912.17 6815912.27 6815912.37 0.2650 0.1383 *

Uranus 13949-03-28 14:24 G 6815913.96 6815914.10 6815914.24 0.0134 0.0034

Uranus 13949-06-24 18:14 G 6816002.12 6816002.26 6816002.39 0.0134 0.0051

Mars 13949-06-26 04:19 G 6816003.56 6816003.68 6816003.80 0.1947 0.0390

Uranus 13949-09-20 21:50 G 6816090.29 6816090.41 6816090.54 0.0134 0.0069

Uranus 13949-12-18 01:26 G 6816178.46 6816178.56 6816178.68 0.0134 0.0086

Uranus 13950-03-16 05:02 G 6816266.63 6816266.71 6816266.81 0.0134 0.0104

Uranus 13950-06-12 08:52 G 6816354.81 6816354.87 6816354.93 0.0134 0.0120

Jupiter 13950-07-11 16:04 G 6816384.01 6816384.17 6816384.32 0.0487 0.0121

Jupiter 13950-10-09 07:40 G 6816473.77 6816473.82 6816473.87 0.0486 0.0461

Moon 13951-09-25 14:24 G 6816824.97 6816825.10 6816825.24 0.2686 0.0336

Earth 13951-09-25 15:07 G 6816824.99 6816825.13 6816825.26 0.2681 0.0342 *

Mars 13956-01-29 22:48 G 6818412.30 6818412.45 6818412.60 0.1589 0.0084

Saturn 13956-03-18 07:12 G 6818460.71 6818460.80 6818460.91 0.0275 0.0202

Saturn 13956-06-14 22:04 G 6818549.28 6818549.42 6818549.56 0.0275 0.0095

Saturn 13956-09-11 12:28 G 6818637.87 6818638.02 6818638.17 0.0275 0.0010

Jupiter 13956-09-12 09:36 G 6818638.76 6818638.90 6818639.04 0.0541 0.0051

Saturn 13956-12-09 02:38 G 6818726.47 6818726.61 6818726.74 0.0275 0.0111

Saturn 13957-03-07 16:19 G 6818815.09 6818815.18 6818815.28 0.0275 0.0211

Mars 13958-11-16 09:50 G 6819433.79 6819433.91 6819434.03 0.1948 0.0645

Moon 13962-03-29 14:24 G 6820662.98 6820663.10 6820663.22 0.2657 0.0174

Earth 13962-03-29 14:38 G 6820662.99 6820663.11 6820663.23 0.2651 0.0262 *

Jupiter 13962-04-29 17:45 G 6820694.11 6820694.24 6820694.37 0.0488 0.0263

Venus 13962-06-24 22:04 G 6820750.39 6820750.42 6820750.46 0.3686 0.3472

Jupiter 13962-07-28 08:52 G 6820783.75 6820783.87 6820784.00 0.0486 0.0313

Earth 13964-09-27 15:21 G 6821576.05 6821576.14 6821576.24 0.2680 0.1856

Moon 13964-09-27 15:36 G 6821576.06 6821576.15 6821576.25 0.2687 0.1832 *

Mars 13965-06-21 04:33 G 6821842.56 6821842.69 6821842.83 0.1588 0.0747

Venus 13968-01-08 16:48 G 6822774.11 6822774.20 6822774.30 0.3687 0.2038

Mars 13968-04-07 15:07 G 6822864.08 6822864.13 6822864.20 0.1949 0.1692

Jupiter 13968-07-01 11:16 G 6822948.84 6822948.97 6822949.10 0.0541 0.0228

Jupiter 13968-09-29 03:50 G 6823038.60 6823038.66 6823038.72 0.0543 0.0492

Saturn 13970-12-28 17:31 G 6823859.15 6823859.23 6823859.33 0.0283 0.0233

Saturn 13971-03-27 09:50 G 6823947.77 6823947.91 6823948.06 0.0283 0.0119

Saturn 13971-06-24 02:38 G 6824036.45 6824036.61 6824036.77 0.0283 0.0006

Saturn 13971-09-20 19:26 G 6824125.17 6824125.31 6824125.46 0.0283 0.0118

Saturn 13971-12-18 12:57 G 6824213.96 6824214.04 6824214.12 0.0283 0.0240

Venus 13973-07-24 11:31 G 6824797.87 6824797.98 6824798.09 0.3687 0.0643

Jupiter 13974-02-15 19:55 G 6825004.24 6825004.33 6825004.41 0.0488 0.0401

Jupiter 13974-05-16 10:48 G 6825093.80 6825093.95 6825094.10 0.0487 0.0169

Mars 13974-11-11 10:48 G 6825272.88 6825272.95 6825273.01 0.1587 0.1396

Venus 13975-02-04 20:52 G 6825358.26 6825358.37 6825358.49 0.3684 0.1853

Earth 13975-04-01 10:33 G 6825413.86 6825413.94 6825414.03 0.2652 0.1861

Moon 13975-04-01 11:02 G 6825413.88 6825413.96 6825414.04 0.2658 0.1967 *

Neptune 13976-04-17 01:40 G 6825795.52 6825795.57 6825795.63 0.0088 0.0082

Neptune 13976-07-14 03:36 G 6825883.59 6825883.65 6825883.75 0.0088 0.0075

Neptune 13976-10-10 06:00 G 6825971.66 6825971.75 6825971.86 0.0088 0.0067

Mars 13976-10-17 12:14 G 6825978.94 6825979.01 6825979.08 0.1591 0.1392

Neptune 13977-01-06 08:09 G 6826059.74 6826059.84 6826059.97 0.0088 0.0060

Neptune 13977-04-04 10:33 G 6826147.82 6826147.94 6826148.08 0.0088 0.0051

Neptune 13977-07-01 12:57 G 6826235.90 6826236.04 6826236.18 0.0088 0.0043

Neptune 13977-09-27 15:07 G 6826323.99 6826324.13 6826324.29 0.0088 0.0036

Neptune 13977-12-24 17:16 G 6826412.08 6826412.22 6826412.39 0.0088 0.0028

Neptune 13978-03-22 19:40 G 6826500.17 6826500.32 6826500.49 0.0088 0.0020

Neptune 13978-06-18 22:04 G 6826588.26 6826588.42 6826588.59 0.0088 0.0012

Neptune 13978-09-15 00:28 G 6826676.36 6826676.52 6826676.68 0.0088 0.0004

Neptune 13978-12-12 02:38 G 6826764.45 6826764.61 6826764.78 0.0088 0.0005

Venus 13979-02-07 05:45 G 6826821.63 6826821.74 6826821.85 0.3688 0.0711

Neptune 13979-03-10 05:02 G 6826852.55 6826852.71 6826852.88 0.0088 0.0012

Neptune 13979-06-06 07:26 G 6826940.65 6826940.81 6826940.97 0.0088 0.0020

Mars 13979-08-04 22:33 G 6827000.36 6827000.44 6827000.51 0.1945 0.1478

Neptune 13979-09-02 09:50 G 6827028.75 6827028.91 6827029.06 0.0088 0.0028

Neptune 13979-11-29 11:45 G 6827116.86 6827116.99 6827117.16 0.0088 0.0037

Neptune 13980-02-25 14:09 G 6827204.96 6827205.09 6827205.25 0.0088 0.0045

Jupiter 13980-04-19 11:45 G 6827258.90 6827258.99 6827259.08 0.0540 0.0423

Neptune 13980-05-23 16:33 G 6827293.07 6827293.19 6827293.34 0.0088 0.0053

Jupiter 13980-07-18 04:33 G 6827348.58 6827348.69 6827348.81 0.0542 0.0305

Neptune 13980-08-19 19:12 G 6827381.19 6827381.30 6827381.42 0.0088 0.0061

Venus 13980-08-20 20:38 G 6827382.23 6827382.36 6827382.49 0.3683 0.0150

Neptune 13980-11-15 21:36 G 6827469.30 6827469.40 6827469.50 0.0088 0.0069

Neptune 13981-02-11 23:45 G 6827557.43 6827557.49 6827557.58 0.0088 0.0078

Neptune 13981-05-11 02:09 G 6827645.57 6827645.59 6827645.64 0.0088 0.0086

Venus 13984-08-22 23:45 G 6828845.40 6828845.49 6828845.58 0.3688 0.2009

Moon 13984-09-22 19:26 G 6828876.23 6828876.31 6828876.39 0.2684 0.2095

Earth 13984-09-22 20:38 G 6828876.27 6828876.36 6828876.44 0.2682 0.2025 *

Saturn	13985-08-05 09:21 G	6829192.81	6829192.89	6829192.98	0.0276	0.0228
Saturn	13985-11-02 00:14 G	6829281.38	6829281.51	6829281.65	0.0276	0.0121
Saturn	13986-01-29 14:52 G	6829369.97	6829370.12	6829370.27	0.0276	0.0015
Jupiter	13986-03-04 12:28 G	6829403.86	6829404.02	6829404.17	0.0487	0.0027
Venus	13986-03-06 20:52 G	6829406.27	6829406.37	6829406.48	0.3682	0.2250
Mars	13986-03-09 17:31 G	6829409.10	6829409.23	6829409.37	0.1590	0.0692
Saturn	13986-04-28 05:02 G	6829458.57	6829458.71	6829458.85	0.0276	0.0088
Saturn	13986-07-25 18:57 G	6829547.19	6829547.29	6829547.40	0.0276	0.0189
Uranus	13988-07-31 21:36 G	6830284.34	6830284.40	6830284.49	0.0145	0.0128
Uranus	13988-10-28 03:50 G	6830372.55	6830372.66	6830372.78	0.0145	0.0102
Mars	13988-12-25 04:19 G	6830430.56	6830430.68	6830430.79	0.1947	0.0478
Uranus	13989-01-24 10:04 G	6830460.78	6830460.92	6830461.07	0.0145	0.0077
Uranus	13989-04-22 16:19 G	6830549.03	6830549.18	6830549.34	0.0145	0.0052
Uranus	13989-07-19 22:48 G	6830637.28	6830637.45	6830637.61	0.0145	0.0026
Uranus	13989-10-16 05:02 G	6830725.54	6830725.71	6830725.88	0.0145	0.0002
Uranus	13990-01-12 11:31 G	6830813.81	6830813.98	6830814.15	0.0145	0.0027
Venus	13990-03-08 17:31 G	6830869.19	6830869.23	6830869.28	0.3689	0.3270
Uranus	13990-04-10 18:00 G	6830902.09	6830902.25	6830902.41	0.0144	0.0053
Uranus	13990-07-08 00:14 G	6830990.38	6830990.51	6830990.66	0.0144	0.0080
Uranus	13990-10-04 06:43 G	6831078.68	6831078.78	6831078.91	0.0144	0.0106
Uranus	13990-12-31 13:26 G	6831167.00	6831167.06	6831167.13	0.0144	0.0133
Jupiter	13992-05-06 06:00 G	6831658.61	6831658.75	6831658.89	0.0541	0.0121
Moon	13995-03-27 23:02 G	6832714.35	6832714.46	6832714.57	0.2655	0.1198
Earth	13995-03-27 23:45 G	6832714.38	6832714.49	6832714.60	0.2651	0.1030 *
Mars	13995-07-30 23:16 G	6832839.31	6832839.47	6832839.62	0.1589	0.0050
Moon	13997-09-25 20:24 G	6833627.22	6833627.35	6833627.48	0.2687	0.0026
Earth	13997-09-25 20:38 G	6833627.23	6833627.36	6833627.50	0.2681	0.0113 *
Jupiter	13997-12-21 14:09 G	6833713.94	6833714.09	6833714.24	0.0488	0.0117
Jupiter	13998-03-21 05:45 G	6833803.70	6833803.74	6833803.79	0.0486	0.0465
Mars	13998-05-17 10:04 G	6833860.80	6833860.92	6833861.04	0.1949	0.0536

Saturn	**14000-05-16 20:24**	**G**	**6834591.28**	**6834591.35**	**6834591.41**	**0.0283**	**0.0255**	
Saturn	**14000-08-13 12:28**	**G**	**6834679.88**	**6834680.02**	**6834680.15**	**0.0283**	**0.0142**	
Saturn	**14000-11-10 05:02**	**G**	**6834768.55**	**6834768.71**	**6834768.86**	**0.0283**	**0.0027**	

15TH MILLENNIUM CE

This is a list of transits of Mercury in the 15th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	**14001-02-06 21:50**	**G**	**6834857.26**	**6834857.41**	**6834857.56**	**0.0283**	**0.0093**	
Saturn	**14001-05-06 15:07**	**G**	**6834946.02**	**6834946.13**	**6834946.23**	**0.0283**	**0.0214**	
Jupiter	**14004-02-23 07:26**	**G**	**6835968.66**	**6835968.81**	**6835968.95**	**0.0541**	**0.0061**	
Mars	**14004-12-20 05:02**	**G**	**6836269.57**	**6836269.71**	**6836269.85**	**0.1588**	**0.0655**	
Mars	**14007-10-07 15:21**	**G**	**6837291.07**	**6837291.14**	**6837291.21**	**0.1949**	**0.1586**	
Moon	**14008-03-29 19:40**	**G**	**6837465.20**	**6837465.32**	**6837465.44**	**0.2658**	**0.0648**	
Earth	**14008-03-29 19:55**	**G**	**6837465.21**	**6837465.33**	**6837465.45**	**0.2651**	**0.0610**	*
Jupiter	**14009-10-09 16:19**	**G**	**6838024.05**	**6838024.18**	**6838024.31**	**0.0488**	**0.0255**	
Jupiter	**14010-01-07 07:40**	**G**	**6838113.70**	**6838113.82**	**6838113.94**	**0.0486**	**0.0321**	
Earth	**14010-09-28 21:07**	**G**	**6838378.32**	**6838378.38**	**6838378.45**	**0.2679**	**0.2299**	
Moon	**14010-09-28 21:36**	**G**	**6838378.34**	**6838378.40**	**6838378.45**	**0.2686**	**0.2421**	*
Mars	**14014-05-12 11:02**	**G**	**6839699.88**	**6839699.96**	**6839700.04**	**0.1587**	**0.1307**	
Saturn	**14014-12-23 10:04**	**G**	**6839924.88**	**6839924.92**	**6839924.96**	**0.0276**	**0.0264**	
Saturn	**14015-03-22 00:57**	**G**	**6840013.42**	**6840013.54**	**6840013.67**	**0.0276**	**0.0156**	
Saturn	**14015-06-18 15:36**	**G**	**6840102.00**	**6840102.15**	**6840102.30**	**0.0276**	**0.0051**	
Saturn	**14015-09-15 06:00**	**G**	**6840190.60**	**6840190.75**	**6840190.90**	**0.0275**	**0.0053**	

Jupiter 14015-12-12 09:07 G 6840278.75 6840278.88 6840279.01 0.0541 0.0233

Saturn 14015-12-12 19:55 G 6840279.21 6840279.33 6840279.45 0.0275 0.0154

Saturn 14016-03-10 09:36 G 6840367.85 6840367.90 6840367.96 0.0275 0.0253

Jupiter 14016-03-11 01:40 G 6840368.51 6840368.57 6840368.63 0.0543 0.0488

Mars 14016-04-17 12:43 G 6840405.98 6840406.03 6840406.08 0.1591 0.1488

Venus 14019-01-29 20:24 G 6841423.29 6841423.35 6841423.42 0.3686 0.3030

Mars 14019-02-02 22:33 G 6841427.37 6841427.44 6841427.51 0.1945 0.1570

Earth 14021-04-01 15:50 G 6842216.09 6842216.16 6842216.22 0.2652 0.2201

Moon 14021-04-01 16:19 G 6842216.11 6842216.18 6842216.24 0.2659 0.2217 *

Jupiter 14021-07-28 18:14 G 6842334.17 6842334.26 6842334.35 0.0488 0.0397

Jupiter 14021-10-26 09:07 G 6842423.73 6842423.88 6842424.03 0.0487 0.0173

Venus 14024-08-14 15:07 G 6843447.03 6843447.13 6843447.24 0.3687 0.1603

Mars 14025-09-07 18:00 G 6843836.12 6843836.25 6843836.39 0.1590 0.0792

Venus 14026-02-25 21:21 G 6844007.32 6844007.39 6844007.45 0.3684 0.3169

Jupiter 14027-09-30 10:33 G 6844588.85 6844588.94 6844589.04 0.0540 0.0411

Jupiter 14027-12-29 03:36 G 6844678.54 6844678.65 6844678.77 0.0542 0.0318

Moon 14028-03-25 07:40 G 6844765.78 6844765.82 6844765.86 0.2650 0.2501

Earth 14028-03-25 08:38 G 6844765.80 6844765.86 6844765.91 0.2650 0.2358 *

Mars 14028-06-25 04:33 G 6844857.57 6844857.69 6844857.80 0.1947 0.0587

Saturn 14029-12-31 11:45 G 6845411.88 6845411.99 6845412.11 0.0283 0.0186

Venus 14030-02-28 09:36 G 6845470.79 6845470.90 6845471.02 0.3687 0.0239

Saturn 14030-03-30 04:04 G 6845500.52 6845500.67 6845500.82 0.0283 0.0071

Saturn 14030-06-26 20:52 G 6845589.21 6845589.37 6845589.53 0.0283 0.0047

Saturn 14030-09-23 13:55 G 6845677.95 6845678.08 6845678.21 0.0283 0.0168

Moon 14030-09-24 01:12 G 6845678.45 6845678.55 6845678.65 0.2685 0.1783

Earth 14030-09-24 02:09 G 6845678.48 6845678.59 6845678.70 0.2681 0.1597 *

Uranus 14031-02-14 10:19 G 6845821.88 6845821.93 6845821.98 0.0133 0.0125

Uranus 14031-05-13 14:09 G 6845910.01 6845910.09 6845910.19 0.0134 0.0107

Uranus 14031-08-09 18:00 G 6845998.15 6845998.25 6845998.37 0.0134 0.0089

Venus 14031-09-11 20:38 G 6846031.23 6846031.36 6846031.48 0.3683 0.1260

Uranus	14031-11-05 22:04 G	6846086.30	6846086.42	6846086.55	0.0134	0.0070
Uranus	14032-02-02 02:09 G	6846174.45	6846174.59	6846174.72	0.0134	0.0052
Uranus	14032-04-30 06:00 G	6846262.61	6846262.75	6846262.89	0.0134	0.0034
Uranus	14032-07-27 09:50 G	6846350.76	6846350.91	6846351.06	0.0134	0.0016
Uranus	14032-10-23 13:40 G	6846438.92	6846439.07	6846439.21	0.0134	0.0002
Uranus	14033-01-19 17:16 G	6846527.08	6846527.22	6846527.37	0.0134	0.0020
Uranus	14033-04-17 21:07 G	6846615.24	6846615.38	6846615.52	0.0134	0.0037
Uranus	14033-07-15 00:57 G	6846703.41	6846703.54	6846703.67	0.0134	0.0054
Jupiter	14033-08-14 10:48 G	6846733.79	6846733.95	6846734.11	0.0487	0.0030
Uranus	14033-10-11 04:33 G	6846791.57	6846791.69	6846791.82	0.0134	0.0072
Uranus	14034-01-07 08:09 G	6846879.74	6846879.84	6846879.96	0.0134	0.0089
Uranus	14034-04-05 12:00 G	6846967.92	6846968.00	6846968.09	0.0134	0.0106
Uranus	14034-07-02 15:36 G	6847056.10	6847056.15	6847056.21	0.0134	0.0123
Mars	14035-01-28 23:45 G	6847266.33	6847266.49	6847266.64	0.1588	0.0118
Venus	14035-09-14 03:50 G	6847494.55	6847494.66	6847494.77	0.3688	0.1118
Venus	14037-03-27 20:24 G	6848055.22	6848055.35	6848055.48	0.3683	0.0771
Mars	14037-11-15 10:04 G	6848287.80	6848287.92	6848288.04	0.1948	0.0441
Jupiter	14039-10-17 04:33 G	6848988.56	6848988.69	6848988.83	0.0541	0.0131
Moon	14041-03-28 04:04 G	6849516.56	6849516.67	6849516.79	0.2655	0.0726
Earth	14041-03-28 04:48 G	6849516.59	6849516.70	6849516.82	0.2651	0.0689 *
Venus	14041-03-29 21:50 G	6849518.33	6849518.41	6849518.50	0.3688	0.2407
Venus	14042-10-11 20:52 G	6850079.29	6850079.37	6850079.45	0.3682	0.2911
Moon	14043-09-27 02:09 G	6850429.46	6850429.59	6850429.72	0.2688	0.0584
Earth	14043-09-27 02:24 G	6850429.47	6850429.60	6850429.73	0.2680	0.0532 *
Mars	14044-06-20 05:16 G	6850696.58	6850696.72	6850696.86	0.1588	0.0567
Saturn	14044-08-08 02:52 G	6850745.51	6850745.62	6850745.74	0.0277	0.0184
Saturn	14044-11-04 17:45 G	6850834.10	6850834.24	6850834.39	0.0276	0.0076
Saturn	14045-02-01 08:09 G	6850922.69	6850922.84	6850922.99	0.0276	0.0029
Saturn	14045-04-30 22:19 G	6851011.30	6851011.43	6851011.56	0.0276	0.0131
Jupiter	14045-06-02 12:28 G	6851043.87	6851044.02	6851044.17	0.0488	0.0115

Saturn 14045-07-28 12:14 G 6851099.93 6851100.01 6851100.09 0.0276 0.0231

Jupiter 14045-08-31 04:04 G 6851133.64 6851133.67 6851133.72 0.0486 0.0469

Venus 14046-10-13 15:36 G 6851542.14 6851542.15 6851542.16 0.3689 0.3651

Mars 14047-04-07 15:21 G 6851718.07 6851718.14 6851718.22 0.1949 0.1497

Jupiter 14051-08-05 05:45 G 6853298.60 6853298.74 6853298.88 0.0541 0.0056

Mars 14053-11-10 11:16 G 6854126.88 6854126.97 6854127.07 0.1587 0.1220

Moon 14054-03-31 00:57 G 6854267.43 6854267.54 6854267.66 0.2658 0.0896

Earth 14054-03-31 00:57 G 6854267.43 6854267.54 6854267.65 0.2652 0.0948 *

Mars 14055-10-17 12:57 G 6854833.03 6854833.04 6854833.05 0.1591 0.1583

Jupiter 14057-03-21 14:24 G 6855353.97 6855354.10 6855354.23 0.0488 0.0256

Jupiter 14057-06-19 05:31 G 6855443.62 6855443.73 6855443.86 0.0486 0.0322

Mars 14058-08-03 22:33 G 6855854.38 6855854.44 6855854.50 0.1945 0.1672

Neptune 14059-01-20 20:52 G 6856024.35 6856024.37 6856024.42 0.0089 0.0087

Neptune 14059-04-18 23:02 G 6856112.40 6856112.46 6856112.54 0.0089 0.0079

Saturn 14059-05-20 14:38 G 6856144.01 6856144.11 6856144.22 0.0283 0.0206

Neptune 14059-07-16 00:57 G 6856200.47 6856200.54 6856200.65 0.0089 0.0072

Saturn 14059-08-17 06:57 G 6856232.64 6856232.79 6856232.94 0.0283 0.0091

Neptune 14059-10-12 03:07 G 6856288.54 6856288.63 6856288.75 0.0089 0.0063

Saturn 14059-11-13 23:31 G 6856321.33 6856321.48 6856321.64 0.0283 0.0027

Neptune 14060-01-08 05:16 G 6856376.61 6856376.72 6856376.85 0.0089 0.0055

Saturn 14060-02-10 16:33 G 6856410.06 6856410.19 6856410.33 0.0283 0.0146

Neptune 14060-04-05 07:12 G 6856464.68 6856464.80 6856464.94 0.0089 0.0048

Saturn 14060-05-09 09:50 G 6856498.87 6856498.91 6856498.97 0.0283 0.0268

Neptune 14060-07-02 09:21 G 6856552.76 6856552.89 6856553.03 0.0089 0.0039

Neptune 14060-09-28 11:31 G 6856640.84 6856640.98 6856641.12 0.0089 0.0031

Neptune 14060-12-25 13:26 G 6856728.92 6856729.06 6856729.21 0.0089 0.0024

Neptune 14061-03-23 15:36 G 6856817.00 6856817.15 6856817.30 0.0089 0.0016

Neptune 14061-06-19 17:31 G 6856905.08 6856905.23 6856905.38 0.0089 0.0008

Neptune 14061-09-15 19:26 G 6856993.16 6856993.31 6856993.47 0.0089 0.0002

Neptune 14061-12-12 21:21 G 6857081.24 6857081.39 6857081.55 0.0089 0.0008

Neptune 14062-03-10 23:31 G 6857169.33 6857169.48 6857169.63 0.0089 0.0016

Neptune 14062-06-07 01:12 G 6857257.41 6857257.55 6857257.70 0.0089 0.0024

Neptune 14062-09-03 03:07 G 6857345.50 6857345.63 6857345.78 0.0089 0.0032

Neptune 14062-11-30 05:16 G 6857433.59 6857433.72 6857433.86 0.0089 0.0039

Neptune 14063-02-26 06:57 G 6857521.67 6857521.79 6857521.93 0.0089 0.0047

Jupiter 14063-05-24 06:43 G 6857608.65 6857608.78 6857608.91 0.0540 0.0243

Neptune 14063-05-25 08:52 G 6857609.76 6857609.87 6857610.00 0.0089 0.0054

Neptune 14063-08-21 10:48 G 6857697.85 6857697.95 6857698.07 0.0089 0.0062

Jupiter 14063-08-21 23:31 G 6857698.41 6857698.48 6857698.54 0.0543 0.0479

Neptune 14063-11-17 12:43 G 6857785.95 6857786.03 6857786.13 0.0089 0.0069

Neptune 14064-02-13 14:38 G 6857874.04 6857874.11 6857874.19 0.0089 0.0077

Neptune 14064-05-11 16:19 G 6857962.15 6857962.18 6857962.25 0.0089 0.0085

Mars 14065-03-08 18:28 G 6858263.14 6858263.27 6858263.40 0.1590 0.0886

Earth 14067-04-02 20:52 G 6859018.34 6859018.37 6859018.40 0.2653 0.2534

Mars 14067-12-25 04:33 G 6859284.58 6859284.69 6859284.81 0.1947 0.0692

Jupiter 14069-01-07 16:33 G 6859664.10 6859664.19 6859664.28 0.0488 0.0392

Jupiter 14069-04-07 07:26 G 6859753.67 6859753.81 6859753.96 0.0487 0.0178

Uranus 14072-08-21 04:48 G 6860985.62 6860985.70 6860985.80 0.0145 0.0122

Uranus 14072-11-17 11:02 G 6861073.84 6861073.96 6861074.09 0.0145 0.0096

Uranus 14073-02-13 17:16 G 6861162.08 6861162.22 6861162.37 0.0145 0.0071

Uranus 14073-05-12 23:31 G 6861250.33 6861250.48 6861250.64 0.0145 0.0045

Uranus 14073-08-09 06:00 G 6861338.58 6861338.75 6861338.91 0.0145 0.0020

Uranus 14073-11-05 12:14 G 6861426.84 6861427.01 6861427.18 0.0145 0.0007

Saturn 14073-12-26 04:04 G 6861477.58 6861477.67 6861477.77 0.0276 0.0216

Uranus 14074-02-01 18:43 G 6861515.11 6861515.28 6861515.44 0.0145 0.0033

Saturn 14074-03-24 18:57 G 6861566.15 6861566.29 6861566.43 0.0276 0.0109

Moon 14074-03-26 12:57 G 6861567.96 6861568.04 6861568.11 0.2652 0.2134

Earth 14074-03-26 13:40 G 6861567.99 6861568.07 6861568.15 0.2650 0.2005 *

Uranus 14074-05-01 00:57 G 6861603.39 6861603.54 6861603.70 0.0144 0.0059

Saturn 14074-06-21 09:36 G 6861654.74 6861654.90 6861655.05 0.0276 0.0009

Pluto 14074-07-11 02:52 G 6861674.57 6861674.62 6861674.68 0.0071 0.0064

Uranus 14074-07-28 07:26 G 6861691.68 6861691.81 6861691.95 0.0144 0.0086

Mars 14074-07-30 00:00 G 6861693.35 6861693.50 6861693.65 0.1589 0.0202

Saturn 14074-09-17 23:45 G 6861743.35 6861743.49 6861743.63 0.0276 0.0099

Pluto 14074-10-07 03:36 G 6861762.57 6861762.65 6861762.74 0.0071 0.0055

Uranus 14074-10-24 13:55 G 6861779.98 6861780.08 6861780.20 0.0144 0.0112

Saturn 14074-12-15 13:40 G 6861831.97 6861832.07 6861832.17 0.0276 0.0199

Pluto 14075-01-03 04:19 G 6861850.58 6861850.68 6861850.78 0.0071 0.0046

Uranus 14075-01-20 20:38 G 6861868.32 6861868.36 6861868.41 0.0144 0.0139

Jupiter 14075-03-12 08:24 G 6861918.76 6861918.85 6861918.94 0.0540 0.0420

Pluto 14075-04-01 04:48 G 6861938.60 6861938.70 6861938.83 0.0071 0.0037

Jupiter 14075-06-10 01:26 G 6862008.45 6862008.56 6862008.68 0.0542 0.0311

Pluto 14075-06-28 05:45 G 6862026.62 6862026.74 6862026.86 0.0071 0.0028

Venus 14075-09-05 18:43 G 6862096.20 6862096.28 6862096.36 0.3686 0.2586

Pluto 14075-09-24 06:28 G 6862114.64 6862114.77 6862114.90 0.0071 0.0018

Pluto 14075-12-21 07:12 G 6862202.67 6862202.80 6862202.93 0.0071 0.0009

Pluto 14076-03-18 07:55 G 6862290.70 6862290.83 6862290.96 0.0072 0.0001

Pluto 14076-06-14 08:38 G 6862378.73 6862378.86 6862378.99 0.0072 0.0010

Pluto 14076-09-10 09:07 G 6862466.76 6862466.88 6862467.02 0.0072 0.0020

Moon 14076-09-24 06:57 G 6862480.68 6862480.79 6862480.91 0.2686 0.1259

Earth 14076-09-24 07:55 G 6862480.71 6862480.83 6862480.95 0.2681 0.1177 *

Pluto 14076-12-07 10:04 G 6862554.80 6862554.92 6862555.04 0.0072 0.0029

Pluto 14077-03-05 10:33 G 6862642.84 6862642.94 6862643.06 0.0072 0.0039

Mars 14077-05-16 10:19 G 6862714.81 6862714.93 6862715.05 0.1948 0.0336

Pluto 14077-06-01 11:16 G 6862730.88 6862730.97 6862731.08 0.0072 0.0049

Pluto 14077-08-28 12:14 G 6862818.94 6862819.01 6862819.09 0.0072 0.0059

Pluto 14077-11-24 12:57 G 6862907.00 6862907.04 6862907.08 0.0072 0.0069

Jupiter 14081-01-24 09:07 G 6864063.72 6864063.88 6864064.03 0.0487 0.0033

Venus 14081-03-21 13:26 G 6864119.95 6864120.06 6864120.17 0.3687 0.1168

Venus 14082-10-02 20:52 G 6864680.28 6864680.37 6864680.46 0.3684 0.2594

Mars	14083-12-20 05:45 G	6865123.60	6865123.74	6865123.89	0.1588	0.0470
Venus	14086-10-05 07:55 G	6866143.72	6866143.83	6866143.94	0.3687	0.0211
Mars	14086-10-06 15:50 G	6866145.07	6866145.16	6866145.24	0.1949	0.1380
Jupiter	14087-03-29 03:21 G	6866318.50	6866318.64	6866318.78	0.0542	0.0138
Moon	14087-03-29 09:36 G	6866318.78	6866318.90	6866319.01	0.2656	0.0474 *
Earth	14087-03-29 10:04 G	6866318.80	6866318.92	6866319.04	0.2651	0.0335 *
Venus	14088-04-17 20:09 G	6866704.21	6866704.34	6866704.47	0.3683	0.0661
Saturn	14088-10-06 14:09 G	6866876.02	6866876.09	6866876.17	0.0283	0.0247
Saturn	14089-01-03 06:14 G	6866964.63	6866964.76	6866964.90	0.0283	0.0135
Saturn	14089-04-01 22:48 G	6867053.29	6867053.45	6867053.61	0.0283	0.0019
Saturn	14089-06-29 15:36 G	6867142.00	6867142.15	6867142.30	0.0283	0.0100
Saturn	14089-09-26 08:52 G	6867230.77	6867230.87	6867230.97	0.0283	0.0222
Moon	14089-09-27 07:55 G	6867231.70	6867231.83	6867231.96	0.2687	0.0883
Earth	14089-09-27 08:09 G	6867231.71	6867231.84	6867231.96	0.2680	0.0975 *
Venus	14092-04-20 01:55 G	6868167.48	6868167.58	6868167.69	0.3688	0.1529
Jupiter	14092-11-12 11:02 G	6868373.80	6868373.96	6868374.11	0.0488	0.0111
Jupiter	14093-02-10 02:38 G	6868463.57	6868463.61	6868463.64	0.0486	0.0471
Mars	14093-05-11 11:45 G	6868553.89	6868553.99	6868554.10	0.1587	0.1125
Venus	14093-11-01 20:09 G	6868728.22	6868728.34	6868728.47	0.3683	0.1412
Venus	14097-11-03 19:55 G	6870191.26	6870191.33	6870191.40	0.3689	0.2802
Mars	14098-02-01 22:48 G	6870281.40	6870281.45	6870281.50	0.1945	0.1771
Jupiter	14099-01-15 04:19 G	6870628.54	6870628.68	6870628.83	0.0540	0.0050
Venus	14099-05-18 20:52 G	6870752.34	6870752.37	6870752.40	0.3682	0.3586
Earth	14100-04-01 06:00 G	6871069.65	6871069.75	6871069.86	0.2652	0.1290
Moon	14100-04-01 06:14 G	6871069.66	6871069.76	6871069.86	0.2659	0.1372 *
Saturn	14103-05-16 06:00 G	6872209.68	6872209.75	6872209.82	0.0277	0.0245
Saturn	14103-08-12 20:52 G	6872298.24	6872298.37	6872298.50	0.0277	0.0137
Saturn	14103-11-09 11:31 G	6872386.83	6872386.98	6872387.13	0.0277	0.0031
Saturn	14104-02-06 01:55 G	6872475.43	6872475.58	6872475.72	0.0277	0.0073
Saturn	14104-05-04 15:50 G	6872564.05	6872564.16	6872564.27	0.0276	0.0175

Saturn 14104-08-01 05:31 G 6872652.71 6872652.73 6872652.75 0.0276 0.0274

Jupiter 14104-09-01 12:28 G 6872683.89 6872684.02 6872684.16 0.0488 0.0255

Mars 14104-09-07 18:57 G 6872690.17 6872690.29 6872690.41 0.1590 0.0984

Jupiter 14104-11-30 03:50 G 6872773.54 6872773.66 6872773.78 0.0487 0.0322

Mars 14107-06-26 04:48 G 6873711.58 6873711.70 6873711.81 0.1947 0.0783

Jupiter 14110-11-04 05:16 G 6874938.59 6874938.72 6874938.85 0.0540 0.0238

Jupiter 14111-02-01 21:50 G 6875028.35 6875028.41 6875028.47 0.0542 0.0481

Mars 14114-01-29 00:14 G 6876120.36 6876120.51 6876120.66 0.1589 0.0295

Uranus 14115-03-07 17:16 G 6876523.16 6876523.22 6876523.29 0.0133 0.0120

Uranus 14115-06-03 21:07 G 6876611.30 6876611.38 6876611.49 0.0134 0.0103

Uranus 14115-08-31 01:12 G 6876699.44 6876699.55 6876699.67 0.0134 0.0084

Uranus 14115-11-27 05:16 G 6876787.59 6876787.72 6876787.85 0.0134 0.0066

Uranus 14116-02-23 09:07 G 6876875.74 6876875.88 6876876.02 0.0134 0.0048

Uranus 14116-05-21 12:57 G 6876963.90 6876964.04 6876964.19 0.0134 0.0030

Jupiter 14116-06-20 14:24 G 6876994.02 6876994.10 6876994.20 0.0489 0.0395

Uranus 14116-08-17 16:48 G 6877052.06 6877052.20 6877052.35 0.0134 0.0012

Jupiter 14116-09-18 05:16 G 6877083.58 6877083.72 6877083.87 0.0487 0.0177

Uranus 14116-11-13 20:38 G 6877140.21 6877140.36 6877140.51 0.0134 0.0006

Mars 14116-11-15 10:33 G 6877141.81 6877141.94 6877142.06 0.1949 0.0239

Uranus 14117-02-10 00:28 G 6877228.38 6877228.52 6877228.66 0.0134 0.0023

Uranus 14117-05-09 04:04 G 6877316.54 6877316.67 6877316.81 0.0134 0.0041

Uranus 14117-08-05 07:55 G 6877404.70 6877404.83 6877404.96 0.0134 0.0058

Uranus 14117-11-01 11:31 G 6877492.87 6877492.98 6877493.10 0.0134 0.0076

Uranus 14118-01-28 15:21 G 6877581.04 6877581.14 6877581.24 0.0134 0.0093

Saturn 14118-02-24 17:31 G 6877608.18 6877608.23 6877608.28 0.0282 0.0265

Uranus 14118-04-26 18:57 G 6877669.21 6877669.29 6877669.37 0.0134 0.0110

Saturn 14118-05-24 09:21 G 6877696.77 6877696.89 6877697.03 0.0283 0.0154

Uranus 14118-07-23 22:33 G 6877757.41 6877757.44 6877757.49 0.0134 0.0127

Saturn 14118-08-21 01:55 G 6877785.43 6877785.58 6877785.74 0.0283 0.0038

Saturn 14118-11-17 18:43 G 6877874.13 6877874.28 6877874.43 0.0283 0.0080

Saturn 14119-02-14 12:00 G 6877962.88 6877963.00 6877963.11 0.0283 0.0201

Moon 14120-03-27 18:00 G 6878370.16 6878370.25 6878370.34 0.2652 0.1751

Earth 14120-03-27 18:57 G 6878370.20 6878370.29 6878370.39 0.2650 0.1647 *

Jupiter 14122-08-23 05:45 G 6879248.66 6879248.74 6879248.83 0.0540 0.0431

Moon 14122-09-26 12:57 G 6879282.91 6879283.04 6879283.16 0.2687 0.0832

Earth 14122-09-26 13:26 G 6879282.93 6879283.06 6879283.19 0.2681 0.0747 *

Jupiter 14122-11-20 23:02 G 6879338.35 6879338.46 6879338.58 0.0542 0.0300

Mars 14123-06-21 06:14 G 6879550.61 6879550.76 6879550.91 0.1588 0.0376

Mars 14126-04-07 16:04 G 6880572.07 6880572.17 6880572.26 0.1949 0.1277

Venus 14126-09-27 22:19 G 6880745.41 6880745.43 6880745.45 0.3686 0.3593

Jupiter 14128-07-07 07:26 G 6881393.65 6881393.81 6881393.96 0.0487 0.0038

Venus 14132-04-12 17:02 G 6882769.12 6882769.21 6882769.31 0.3687 0.2146

Saturn 14132-10-02 07:26 G 6882941.80 6882941.81 6882941.82 0.0276 0.0274

Mars 14132-11-10 12:14 G 6882980.90 6882981.01 6882981.12 0.1587 0.1032

Saturn 14132-12-29 22:33 G 6883030.32 6883030.44 6883030.56 0.0276 0.0166

Saturn 14133-03-28 13:12 G 6883118.90 6883119.05 6883119.20 0.0276 0.0060

Moon 14133-03-30 14:52 G 6883121.00 6883121.12 6883121.24 0.2656 0.0063

Earth 14133-03-30 15:07 G 6883121.01 6883121.13 6883121.26 0.2651 0.0094 *

Saturn 14133-06-25 03:36 G 6883207.50 6883207.65 6883207.80 0.0276 0.0044

Saturn 14133-09-21 17:31 G 6883296.11 6883296.23 6883296.36 0.0276 0.0146

Saturn 14133-12-19 07:26 G 6883384.74 6883384.81 6883384.87 0.0276 0.0245

Jupiter 14134-09-09 00:57 G 6883648.40 6883648.54 6883648.68 0.0542 0.0127

Moon 14135-09-29 13:40 G 6884033.96 6884034.07 6884034.19 0.2687 0.1468

Earth 14135-09-29 13:40 G 6884033.96 6884034.07 6884034.19 0.2680 0.1412 *

Mars 14137-08-03 23:02 G 6884708.43 6884708.46 6884708.49 0.1945 0.1874

Venus 14137-10-27 11:45 G 6884792.88 6884792.99 6884793.10 0.3687 0.0736

Venus 14139-05-10 20:24 G 6885353.24 6885353.35 6885353.46 0.3684 0.2011

Jupiter 14140-04-25 08:52 G 6885703.72 6885703.87 6885704.03 0.0487 0.0111

Jupiter 14140-07-24 00:43 G 6885793.49 6885793.53 6885793.56 0.0486 0.0471

Neptune 14140-10-16 22:48 G 6885878.43 6885878.45 6885878.48 0.0088 0.0086

Neptune 14141-01-13 00:43 G 6885966.48 6885966.53 6885966.62 0.0088 0.0079

Neptune 14141-04-11 03:07 G 6886054.55 6886054.63 6886054.73 0.0088 0.0071

Neptune 14141-07-08 05:16 G 6886142.62 6886142.72 6886142.84 0.0088 0.0063

Neptune 14141-10-04 07:40 G 6886230.70 6886230.82 6886230.95 0.0088 0.0055

Neptune 14141-12-31 09:36 G 6886318.78 6886318.90 6886319.05 0.0088 0.0049

Neptune 14142-03-29 12:00 G 6886406.87 6886407.00 6886407.16 0.0088 0.0040

Neptune 14142-06-25 14:24 G 6886494.95 6886495.10 6886495.26 0.0088 0.0032

Neptune 14142-09-21 16:48 G 6886583.04 6886583.20 6886583.36 0.0088 0.0024

Neptune 14142-12-18 18:57 G 6886671.14 6886671.29 6886671.46 0.0088 0.0016

Neptune 14143-03-16 21:21 G 6886759.23 6886759.39 6886759.55 0.0088 0.0008

Venus 14143-05-13 06:00 G 6886816.64 6886816.75 6886816.86 0.3688 0.0624

Neptune 14143-06-12 23:45 G 6886847.32 6886847.49 6886847.65 0.0088 0.0001

Neptune 14143-09-09 01:55 G 6886935.42 6886935.58 6886935.75 0.0088 0.0008

Neptune 14143-12-06 04:19 G 6887023.52 6887023.68 6887023.84 0.0088 0.0016

Neptune 14144-03-03 06:28 G 6887111.62 6887111.77 6887111.94 0.0088 0.0024

Mars 14144-03-08 19:26 G 6887117.19 6887117.31 6887117.42 0.1590 0.1082

Neptune 14144-05-30 08:52 G 6887199.72 6887199.87 6887200.03 0.0088 0.0032

Neptune 14144-08-26 11:16 G 6887287.83 6887287.97 6887288.12 0.0088 0.0040

Neptune 14144-11-22 13:26 G 6887375.94 6887376.06 6887376.21 0.0088 0.0049

Venus 14144-11-23 19:55 G 6887377.20 6887377.33 6887377.46 0.3683 0.0069

Neptune 14145-02-18 15:50 G 6887464.05 6887464.16 6887464.30 0.0088 0.0057

Neptune 14145-05-17 18:14 G 6887552.16 6887552.26 6887552.38 0.0088 0.0065

Neptune 14145-08-13 20:38 G 6887640.28 6887640.36 6887640.46 0.0088 0.0073

Neptune 14145-11-09 23:16 G 6887728.41 6887728.47 6887728.53 0.0088 0.0081

Earth 14146-04-02 11:16 G 6887871.87 6887871.97 6887872.06 0.2652 0.1624

Moon 14146-04-02 11:31 G 6887871.88 6887871.98 6887872.07 0.2659 0.1603 *

Jupiter 14146-06-28 02:52 G 6887958.47 6887958.62 6887958.76 0.0541 0.0049

Mars 14146-12-25 04:48 G 6888138.59 6888138.70 6888138.81 0.1947 0.0887

Saturn 14147-10-11 09:07 G 6888428.77 6888428.88 6888428.99 0.0283 0.0195

Saturn 14148-01-08 01:26 G 6888517.41 6888517.56 6888517.71 0.0283 0.0081

Saturn	14148-04-05 18:00 G	6888606.09	6888606.25	6888606.41	0.0283	0.0037
Saturn	14148-07-03 11:02 G	6888694.83	6888694.96	6888695.09	0.0283	0.0156
Saturn	14148-09-30 04:19 G	6888783.66	6888783.68	6888783.71	0.0283	0.0279
Venus	14148-11-26 00:14 G	6888840.41	6888840.51	6888840.60	0.3688	0.1928
Venus	14150-06-09 20:09 G	6889401.23	6889401.34	6889401.45	0.3682	0.2051
Jupiter	14152-02-12 11:02 G	6890013.82	6890013.96	6890014.09	0.0488	0.0251
Jupiter	14152-05-12 02:09 G	6890103.47	6890103.59	6890103.71	0.0486	0.0325
Mars	14153-07-30 00:57 G	6890547.39	6890547.54	6890547.68	0.1588	0.0395
Venus	14154-06-11 18:00 G	6890864.20	6890864.25	6890864.31	0.3689	0.3189
Moon	14155-09-24 18:00 G	6891334.21	6891334.25	6891334.30	0.2684	0.2493
Earth	14155-09-24 19:12 G	6891334.24	6891334.30	6891334.36	0.2682	0.2410 *
Mars	14156-05-16 10:33 G	6891568.82	6891568.94	6891569.07	0.1948	0.0147
Uranus	14156-06-15 05:45 G	6891598.72	6891598.74	6891598.79	0.0145	0.0141
Uranus	14156-09-11 12:00 G	6891686.91	6891687.00	6891687.10	0.0145	0.0116
Uranus	14156-12-08 18:00 G	6891775.13	6891775.25	6891775.39	0.0145	0.0091
Uranus	14157-03-07 00:28 G	6891863.37	6891863.52	6891863.67	0.0145	0.0065
Uranus	14157-06-03 06:43 G	6891951.62	6891951.78	6891951.94	0.0145	0.0040
Uranus	14157-08-30 12:57 G	6892039.87	6892040.04	6892040.21	0.0145	0.0014
Uranus	14157-11-26 19:12 G	6892128.14	6892128.30	6892128.47	0.0145	0.0013
Uranus	14158-02-23 01:40 G	6892216.41	6892216.57	6892216.74	0.0145	0.0038
Jupiter	14158-04-16 03:50 G	6892268.53	6892268.66	6892268.79	0.0540	0.0233
Uranus	14158-05-22 08:09 G	6892304.69	6892304.84	6892304.99	0.0145	0.0065
Jupiter	14158-07-14 20:24 G	6892358.29	6892358.35	6892358.41	0.0542	0.0486
Uranus	14158-08-18 14:24 G	6892392.98	6892393.10	6892393.24	0.0144	0.0092
Uranus	14158-11-14 21:07 G	6892481.29	6892481.38	6892481.48	0.0144	0.0118
Pluto	14159-12-04 11:45 G	6892865.98	6892865.99	6892866.05	0.0074	0.0073
Pluto	14160-03-01 14:09 G	6892953.99	6892954.09	6892954.23	0.0073	0.0058
Pluto	14160-05-28 16:48 G	6893042.06	6893042.20	6893042.37	0.0073	0.0043
Pluto	14160-08-24 19:12 G	6893130.13	6893130.30	6893130.49	0.0073	0.0028
Pluto	14160-11-20 21:21 G	6893218.22	6893218.39	6893218.59	0.0073	0.0014

Pluto 14161-02-17 00:00 G 6893306.31 6893306.50 6893306.69 0.0073 0.0001

Pluto 14161-05-16 02:09 G 6893394.41 6893394.59 6893394.78 0.0073 0.0015

Pluto 14161-08-12 04:04 G 6893482.51 6893482.67 6893482.86 0.0073 0.0030

Pluto 14161-11-08 06:14 G 6893570.63 6893570.76 6893570.93 0.0073 0.0044

Pluto 14162-02-04 08:24 G 6893658.76 6893658.85 6893658.99 0.0072 0.0058

Pluto 14162-05-03 11:02 G 6893746.93 6893746.96 6893747.00 0.0072 0.0071

Saturn 14162-05-19 00:00 G 6893762.39 6893762.50 6893762.61 0.0277 0.0197

Saturn 14162-08-15 14:52 G 6893850.97 6893851.12 6893851.26 0.0277 0.0090

Saturn 14162-11-12 05:16 G 6893939.57 6893939.72 6893939.87 0.0277 0.0016

Mars 14162-12-20 06:28 G 6893977.62 6893977.77 6893977.92 0.1588 0.0287

Saturn 14163-02-08 19:26 G 6894028.18 6894028.31 6894028.45 0.0277 0.0119

Saturn 14163-05-08 09:21 G 6894116.80 6894116.89 6894116.98 0.0277 0.0219

Jupiter 14163-12-01 12:28 G 6894323.94 6894324.02 6894324.11 0.0489 0.0396

Jupiter 14164-02-29 03:21 G 6894413.50 6894413.64 6894413.79 0.0487 0.0176

Mars 14165-10-06 16:04 G 6894999.07 6894999.17 6894999.27 0.1950 0.1183

Moon 14166-03-28 23:16 G 6895172.37 6895172.47 6895172.57 0.2653 0.1451

Earth 14166-03-29 00:14 G 6895172.40 6895172.51 6895172.61 0.2650 0.1297 *

Moon 14168-09-26 18:28 G 6896085.14 6896085.27 6896085.41 0.2687 0.0425

Earth 14168-09-26 19:12 G 6896085.16 6896085.30 6896085.43 0.2681 0.0313 *

Jupiter 14170-02-02 04:19 G 6896578.60 6896578.68 6896578.78 0.0539 0.0424

Jupiter 14170-05-02 21:36 G 6896668.29 6896668.40 6896668.52 0.0541 0.0304

Mars 14172-05-11 12:28 G 6897407.90 6897408.02 6897408.14 0.1587 0.0945

Jupiter 14175-12-18 05:02 G 6898723.56 6898723.71 6898723.87 0.0487 0.0034

Saturn 14177-02-27 12:28 G 6899160.92 6899161.02 6899161.12 0.0282 0.0212

Saturn 14177-05-27 04:48 G 6899249.55 6899249.70 6899249.84 0.0283 0.0099

Saturn 14177-08-23 21:21 G 6899338.23 6899338.39 6899338.54 0.0283 0.0019

Saturn 14177-11-20 14:09 G 6899426.95 6899427.09 6899427.23 0.0283 0.0137

Saturn 14178-02-17 07:26 G 6899515.75 6899515.81 6899515.88 0.0283 0.0259

Moon 14179-03-31 20:09 G 6899923.22 6899923.34 6899923.46 0.2658 0.0334

Earth 14179-03-31 20:24 G 6899923.23 6899923.35 6899923.47 0.2651 0.0356 *

Earth 14181-09-29 19:26 G 6900836.22 6900836.31 6900836.41 0.2680 0.1860

Moon 14181-09-29 19:55 G 6900836.23 6900836.33 6900836.42 0.2686 0.1895 *

Mars 14181-10-01 18:43 G 6900838.28 6900838.28 6900838.29 0.1587 0.1585

Jupiter 14182-02-18 22:33 G 6900978.30 6900978.44 6900978.58 0.0541 0.0117

Venus 14183-05-04 20:38 G 6901418.30 6901418.36 6901418.42 0.3686 0.3142

Mars 14183-09-07 19:40 G 6901544.22 6901544.32 6901544.43 0.1590 0.1181

Mars 14186-06-25 05:16 G 6902565.61 6902565.72 6902565.82 0.1947 0.0999

Jupiter 14187-10-06 07:12 G 6903033.65 6903033.80 6903033.95 0.0488 0.0108

Jupiter 14188-01-03 22:48 G 6903123.42 6903123.45 6903123.48 0.0486 0.0474

Venus 14188-11-17 15:21 G 6903442.04 6903442.14 6903442.25 0.3687 0.1708

Venus 14190-05-31 20:38 G 6904002.31 6904002.36 6904002.41 0.3684 0.3323

Saturn 14191-10-06 01:55 G 6904494.49 6904494.58 6904494.67 0.0276 0.0223

Saturn 14192-01-02 16:48 G 6904583.06 6904583.20 6904583.34 0.0276 0.0116

Saturn 14192-03-31 07:26 G 6904671.66 6904671.81 6904671.96 0.0276 0.0011

Earth 14192-04-02 16:19 G 6904674.10 6904674.18 6904674.26 0.2652 0.1963

Moon 14192-04-02 16:33 G 6904674.12 6904674.19 6904674.27 0.2658 0.2044 *

Saturn 14192-06-27 21:36 G 6904760.26 6904760.40 6904760.54 0.0276 0.0092

Saturn 14192-09-24 11:31 G 6904848.88 6904848.98 6904849.09 0.0276 0.0193

Mars 14193-01-28 01:12 G 6904974.41 6904974.55 6904974.70 0.1589 0.0490

Jupiter 14193-12-08 00:14 G 6905288.37 6905288.51 6905288.66 0.0541 0.0060

Venus 14194-06-03 10:04 G 6905465.80 6905465.92 6905466.03 0.3687 0.0338

Mars 14195-11-15 10:48 G 6905995.83 6905995.95 6905996.07 0.1948 0.0037

Venus 14195-12-15 19:55 G 6906026.21 6906026.33 6906026.45 0.3683 0.1426

Earth 14199-03-27 08:52 G 6907223.86 6907223.87 6907223.88 0.2649 0.2631

Uranus 14199-03-28 00:14 G 6907224.44 6907224.51 6907224.58 0.0133 0.0117

Uranus 14199-06-24 04:04 G 6907312.58 6907312.67 6907312.78 0.0133 0.0099

Jupiter 14199-07-25 09:07 G 6907343.75 6907343.88 6907344.01 0.0488 0.0250

Uranus 14199-09-20 07:55 G 6907400.72 6907400.83 6907400.96 0.0134 0.0081

Jupiter 14199-10-23 00:00 G 6907433.39 6907433.50 6907433.63 0.0486 0.0326

Uranus 14199-12-17 12:00 G 6907488.88 6907489.00 6907489.14 0.0134 0.0062

Venus 14199-12-18 04:19 G 6907489.57 6907489.68 6907489.78 0.3688 0.1034

Uranus 14200-03-15 15:50 G 6907577.03 6907577.16 6907577.31 0.0134 0.0045

Uranus 14200-06-11 19:55 G 6907665.19 6907665.33 6907665.47 0.0134 0.0026

Uranus 14200-09-07 23:45 G 6907753.34 6907753.49 6907753.64 0.0134 0.0008

Uranus 14200-12-05 03:36 G 6907841.50 6907841.65 6907841.79 0.0134 0.0009

Uranus 14201-03-03 07:26 G 6907929.66 6907929.81 6907929.95 0.0134 0.0027

Uranus 14201-05-30 11:02 G 6908017.83 6908017.96 6908018.10 0.0134 0.0045

Venus 14201-07-01 19:40 G 6908050.19 6908050.32 6908050.45 0.3683 0.0580

Uranus 14201-08-26 14:52 G 6908105.99 6908106.12 6908106.25 0.0134 0.0062

Moon 14201-09-26 00:00 G 6908136.42 6908136.50 6908136.57 0.2686 0.2200

Earth 14201-09-26 00:43 G 6908136.45 6908136.53 6908136.62 0.2682 0.1990 *

Uranus 14201-11-22 18:28 G 6908194.16 6908194.27 6908194.39 0.0134 0.0079

Uranus 14202-02-18 22:04 G 6908282.33 6908282.42 6908282.53 0.0134 0.0097

Uranus 14202-05-18 01:40 G 6908370.51 6908370.57 6908370.66 0.0134 0.0114

Mars 14202-06-21 06:57 G 6908404.64 6908404.79 6908404.94 0.1588 0.0191

Uranus 14202-08-14 05:31 G 6908458.71 6908458.73 6908458.76 0.0134 0.0131

Mars 14205-04-07 16:19 G 6909426.08 6909426.18 6909426.28 0.1949 0.1069

Venus 14205-07-03 22:19 G 6909513.34 6909513.43 6909513.51 0.3689 0.2325

Jupiter 14205-09-27 01:55 G 6909598.45 6909598.58 6909598.71 0.0540 0.0235

Jupiter 14205-12-25 18:43 G 6909688.22 6909688.28 6909688.34 0.0542 0.0487

Saturn 14206-07-18 12:14 G 6909892.95 6909893.01 6909893.08 0.0283 0.0253

Saturn 14206-10-15 04:04 G 6909981.54 6909981.67 6909981.81 0.0283 0.0141

Saturn 14207-01-11 20:38 G 6910070.20 6910070.36 6910070.52 0.0283 0.0025

Venus 14207-01-15 19:55 G 6910074.24 6910074.33 6910074.42 0.3682 0.2705

Saturn 14207-04-10 13:26 G 6910158.91 6910159.06 6910159.21 0.0283 0.0093

Saturn 14207-07-08 06:28 G 6910247.67 6910247.77 6910247.88 0.0283 0.0214

Venus 14211-01-17 16:04 G 6911537.14 6911537.17 6911537.19 0.3689 0.3565

Jupiter 14211-05-14 11:02 G 6911653.87 6911653.96 6911654.06 0.0489 0.0390

Jupiter 14211-08-12 01:55 G 6911743.43 6911743.58 6911743.72 0.0487 0.0180

Mars 14211-11-11 12:57 G 6911834.91 6911835.04 6911835.17 0.1587 0.0850

Moon 14212-03-30 04:33 G 6911974.58 6911974.69 6911974.80 0.2653 0.1003

Earth 14212-03-30 05:16 G 6911974.61 6911974.72 6911974.84 0.2650 0.0948 *

Moon 14214-09-29 00:14 G 6912887.38 6912887.51 6912887.65 0.2687 0.0105

Earth 14214-09-29 00:57 G 6912887.40 6912887.54 6912887.67 0.2681 0.0145 *

Jupiter 14217-07-16 02:52 G 6913908.53 6913908.62 6913908.71 0.0539 0.0419

Jupiter 14217-10-13 20:09 G 6913998.22 6913998.34 6913998.46 0.0541 0.0309

Saturn 14221-02-23 03:07 G 6915226.58 6915226.63 6915226.69 0.0277 0.0256

Mars 14221-04-02 19:12 G 6915265.25 6915265.30 6915265.34 0.1587 0.1498

Saturn 14221-05-22 18:14 G 6915315.13 6915315.26 6915315.39 0.0277 0.0148

Saturn 14221-08-19 08:52 G 6915403.72 6915403.87 6915404.02 0.0277 0.0041

Saturn 14221-11-15 23:16 G 6915492.32 6915492.47 6915492.62 0.0277 0.0063

Saturn 14222-02-12 13:26 G 6915580.94 6915581.06 6915581.18 0.0276 0.0165

Saturn 14222-05-12 02:52 G 6915669.59 6915669.62 6915669.67 0.0276 0.0265

Mars 14223-03-09 20:09 G 6915971.25 6915971.34 6915971.43 0.1590 0.1277

Jupiter 14223-05-31 03:07 G 6916053.47 6916053.63 6916053.79 0.0488 0.0031

Neptune 14223-10-19 20:24 G 6916195.31 6916195.35 6916195.42 0.0089 0.0084

Neptune 14224-01-15 22:33 G 6916283.37 6916283.44 6916283.53 0.0089 0.0075

Neptune 14224-04-13 00:43 G 6916371.44 6916371.53 6916371.64 0.0089 0.0067

Neptune 14224-07-10 02:38 G 6916459.51 6916459.61 6916459.74 0.0089 0.0060

Neptune 14224-10-06 04:48 G 6916547.58 6916547.70 6916547.83 0.0089 0.0051

Neptune 14225-01-02 06:57 G 6916635.66 6916635.79 6916635.93 0.0089 0.0043

Neptune 14225-03-31 08:52 G 6916723.74 6916723.87 6916724.02 0.0089 0.0036

Moon 14225-04-02 01:26 G 6916725.44 6916725.56 6916725.67 0.2658 0.0653

Earth 14225-04-02 01:26 G 6916725.45 6916725.56 6916725.68 0.2651 0.0702 *

Neptune 14225-06-27 11:02 G 6916811.82 6916811.96 6916812.11 0.0089 0.0028

Neptune 14225-09-23 13:12 G 6916899.90 6916900.05 6916900.20 0.0089 0.0020

Neptune 14225-12-20 15:07 G 6916987.98 6916988.13 6916988.28 0.0089 0.0012

Mars 14225-12-25 05:02 G 6916992.61 6916992.71 6916992.81 0.1947 0.1083

Neptune 14226-03-18 17:02 G 6917076.06 6917076.21 6917076.37 0.0089 0.0004

Neptune 14226-06-14 19:12 G 6917164.14 6917164.30 6917164.45 0.0089 0.0004

Neptune 14226-09-10 21:07 G 6917252.23 6917252.38 6917252.53 0.0089 0.0012

Neptune 14226-12-07 23:02 G 6917340.31 6917340.46 6917340.61 0.0089 0.0019

Neptune 14227-03-06 00:57 G 6917428.40 6917428.54 6917428.69 0.0089 0.0027

Neptune 14227-06-02 02:52 G 6917516.48 6917516.62 6917516.76 0.0089 0.0035

Neptune 14227-08-29 04:48 G 6917604.57 6917604.70 6917604.84 0.0089 0.0042

Earth 14227-10-02 01:12 G 6917638.49 6917638.55 6917638.62 0.2680 0.2302

Moon 14227-10-02 01:40 G 6917638.51 6917638.57 6917638.64 0.2686 0.2370 *

Neptune 14227-11-25 06:28 G 6917692.66 6917692.77 6917692.91 0.0089 0.0051

Neptune 14228-02-21 08:38 G 6917780.75 6917780.86 6917780.98 0.0089 0.0058

Neptune 14228-05-19 10:19 G 6917868.84 6917868.93 6917869.05 0.0089 0.0066

Neptune 14228-08-15 12:28 G 6917956.94 6917957.02 6917957.11 0.0089 0.0073

Neptune 14228-11-11 14:09 G 6918045.04 6918045.09 6918045.17 0.0089 0.0081

Neptune 14229-02-07 16:19 G 6918133.16 6918133.18 6918133.21 0.0089 0.0088

Jupiter 14229-08-01 21:21 G 6918308.25 6918308.39 6918308.53 0.0541 0.0124

Mars 14232-07-30 01:40 G 6919401.43 6919401.57 6919401.71 0.1589 0.0582

Jupiter 14235-03-19 05:02 G 6920363.56 6920363.71 6920363.86 0.0488 0.0112

Mars 14235-05-17 11:02 G 6920422.84 6920422.96 6920423.08 0.1949 0.0082

Jupiter 14235-06-16 20:24 G 6920453.32 6920453.35 6920453.39 0.0486 0.0470

Saturn 14235-12-05 15:21 G 6920625.11 6920625.14 6920625.19 0.0282 0.0271

Saturn 14236-03-03 07:26 G 6920713.69 6920713.81 6920713.94 0.0283 0.0159

Saturn 14236-05-30 23:45 G 6920802.34 6920802.49 6920802.65 0.0283 0.0044

Saturn 14236-08-27 16:33 G 6920891.04 6920891.19 6920891.34 0.0283 0.0074

Saturn 14236-11-24 09:36 G 6920979.79 6920979.90 6920980.02 0.0283 0.0194

Earth 14238-04-04 21:36 G 6921476.34 6921476.40 6921476.46 0.2652 0.2298

Moon 14238-04-04 22:04 G 6921476.37 6921476.42 6921476.47 0.2657 0.2363 *

Venus 14239-12-10 18:57 G 6922091.22 6922091.29 6922091.37 0.3687 0.2700

Uranus 14240-07-06 12:57 G 6922300.00 6922300.04 6922300.11 0.0145 0.0135

Uranus 14240-10-02 19:12 G 6922388.20 6922388.30 6922388.41 0.0145 0.0110

Uranus 14240-12-30 01:12 G 6922476.43 6922476.55 6922476.70 0.0145 0.0085

Uranus 14241-03-28 07:40 G 6922564.67 6922564.82 6922564.97 0.0145 0.0059

Jupiter 14241-05-20 21:50 G 6922618.27 6922618.41 6922618.56 0.0541 0.0070

Uranus 14241-06-24 13:55 G 6922652.92 6922653.08 6922653.24 0.0145 0.0034

Uranus 14241-09-20 20:09 G 6922741.17 6922741.34 6922741.51 0.0145 0.0008

Uranus 14241-12-18 02:24 G 6922829.44 6922829.60 6922829.77 0.0145 0.0019

Mars 14241-12-20 07:26 G 6922831.66 6922831.81 6922831.96 0.1588 0.0095

Uranus 14242-03-16 08:52 G 6922917.71 6922917.87 6922918.03 0.0145 0.0045

Uranus 14242-06-12 15:21 G 6923005.99 6923006.14 6923006.29 0.0145 0.0071

Uranus 14242-09-08 21:36 G 6923094.28 6923094.40 6923094.54 0.0144 0.0098

Uranus 14242-12-06 04:04 G 6923182.60 6923182.67 6923182.77 0.0144 0.0124

Mars 14244-10-06 16:33 G 6923853.08 6923853.19 6923853.30 0.1949 0.0964

Moon 14245-03-28 13:12 G 6924025.99 6924026.05 6924026.11 0.2649 0.2331

Earth 14245-03-28 14:09 G 6924026.03 6924026.09 6924026.15 0.2650 0.2275 *

Venus 14245-06-25 13:40 G 6924114.97 6924115.07 6924115.18 0.3687 0.1272

Jupiter 14247-01-05 07:12 G 6924673.67 6924673.80 6924673.94 0.0488 0.0249

Venus 14247-01-06 20:09 G 6924675.26 6924675.34 6924675.42 0.3684 0.2755

Jupiter 14247-04-04 22:19 G 6924763.31 6924763.43 6924763.55 0.0486 0.0327

Moon 14247-09-27 05:31 G 6924938.62 6924938.73 6924938.83 0.2686 0.1610

Earth 14247-09-27 06:28 G 6924938.66 6924938.77 6924938.88 0.2682 0.1572 *

Saturn 14250-10-09 20:24 G 6926047.24 6926047.35 6926047.47 0.0276 0.0172

Saturn 14251-01-06 11:16 G 6926135.82 6926135.97 6926136.12 0.0276 0.0066

Venus 14251-01-09 08:09 G 6926138.73 6926138.84 6926138.95 0.3688 0.0104

Saturn 14251-04-05 01:40 G 6926224.42 6926224.57 6926224.72 0.0276 0.0038

Mars 14251-05-12 13:26 G 6926261.93 6926262.06 6926262.19 0.1587 0.0756

Saturn 14251-07-02 15:50 G 6926313.03 6926313.16 6926313.29 0.0276 0.0140

Saturn 14251-09-29 05:31 G 6926401.66 6926401.73 6926401.80 0.0276 0.0240

Venus 14252-07-22 19:26 G 6926699.18 6926699.31 6926699.44 0.3683 0.0836

Jupiter 14253-03-08 23:16 G 6926928.34 6926928.47 6926928.60 0.0540 0.0249

Jupiter 14253-06-06 16:04 G 6927018.11 6927018.17 6927018.24 0.0542 0.0475

Venus 14256-07-25 02:24 G 6928162.50 6928162.60 6928162.70 0.3688 0.1432

Venus 14258-02-05 19:26 G 6928723.18 6928723.31 6928723.43 0.3683 0.1206

Moon 14258-03-31 10:04 G 6928776.80 6928776.92 6928777.03 0.2655 0.0748

Earth 14258-03-31 10:33 G 6928776.82 6928776.94 6928777.06 0.2650 0.0593 *

Jupiter 14258-10-24 09:07 G 6928983.79 6928983.88 6928983.98 0.0489 0.0390

Jupiter 14259-01-21 23:45 G 6929073.35 6929073.49 6929073.64 0.0487 0.0180

Moon 14260-09-29 06:14 G 6929689.63 6929689.76 6929689.89 0.2687 0.0458

Earth 14260-09-29 06:28 G 6929689.64 6929689.77 6929689.91 0.2681 0.0554 *

Mars 14260-10-01 19:40 G 6929692.25 6929692.32 6929692.38 0.1587 0.1402

Venus 14262-02-07 20:24 G 6930186.27 6930186.35 6930186.42 0.3689 0.2711

Mars 14262-09-07 20:38 G 6930398.29 6930398.36 6930398.44 0.1590 0.1381

Venus 14263-08-22 19:55 G 6930747.27 6930747.33 6930747.38 0.3682 0.3362

Jupiter 14264-12-26 00:57 G 6931238.45 6931238.54 6931238.63 0.0540 0.0425

Jupiter 14265-03-25 18:14 G 6931328.14 6931328.26 6931328.38 0.0542 0.0306

Mars 14265-06-25 05:16 G 6931419.63 6931419.72 6931419.82 0.1947 0.1198

Saturn 14265-07-21 07:12 G 6931445.70 6931445.80 6931445.91 0.0283 0.0199

Saturn 14265-10-17 23:31 G 6931534.33 6931534.48 6931534.63 0.0283 0.0085

Saturn 14266-01-14 16:04 G 6931623.01 6931623.17 6931623.33 0.0283 0.0032

Saturn 14266-04-13 08:52 G 6931711.74 6931711.87 6931712.01 0.0283 0.0151

Saturn 14266-07-11 02:09 G 6931800.56 6931800.59 6931800.64 0.0283 0.0273

Jupiter 14270-11-10 01:40 G 6933383.41 6933383.57 6933383.73 0.0487 0.0036

Moon 14271-04-03 06:28 G 6933527.66 6933527.77 6933527.88 0.2658 0.1072

Earth 14271-04-03 06:43 G 6933527.67 6933527.78 6933527.89 0.2651 0.1041 *

Mars 14272-01-29 02:09 G 6933828.45 6933828.59 6933828.73 0.1588 0.0682

Mars 14274-11-15 11:02 G 6934849.84 6934849.96 6934850.09 0.1948 0.0184

Jupiter 14277-01-11 19:40 G 6935638.18 6935638.32 6935638.46 0.0541 0.0130

Saturn 14280-02-26 21:21 G 6936779.29 6936779.39 6936779.50 0.0277 0.0206

Saturn 14280-05-25 12:14 G 6936867.87 6936868.01 6936868.16 0.0276 0.0099

Saturn 14280-08-22 02:52 G 6936956.47 6936956.62 6936956.77 0.0276 0.0007

Saturn 14280-11-18 17:02 G 6937045.08 6937045.21 6937045.35 0.0276 0.0110

Saturn 14281-02-15 06:57 G 6937133.70 6937133.79 6937133.89 0.0276 0.0210

Mars 14281-06-20 07:40 G 6937258.67 6937258.82 6937258.98 0.1588 0.0043

Jupiter 14282-08-29 03:07 G 6937693.48 6937693.63 6937693.78 0.0488 0.0113

Jupiter 14282-11-26 18:28 G 6937783.24 6937783.27 6937783.31 0.0486 0.0470

Uranus 14283-01-20 03:07 G 6937837.61 6937837.63 6937837.67 0.0133 0.0131

Uranus 14283-04-18 07:12 G 6937925.73 6937925.80 6937925.89 0.0133 0.0112

Uranus 14283-07-15 11:16 G 6938013.87 6938013.97 6938014.08 0.0133 0.0094

Uranus 14283-10-11 15:21 G 6938102.02 6938102.14 6938102.26 0.0133 0.0076

Uranus 14284-01-07 19:12 G 6938190.17 6938190.30 6938190.43 0.0134 0.0058

Uranus 14284-04-04 23:02 G 6938278.32 6938278.46 6938278.60 0.0134 0.0040

Earth 14284-04-05 02:38 G 6938278.60 6938278.61 6938278.62 0.2652 0.2631 *

Mars 14284-04-06 16:33 G 6938280.08 6938280.19 6938280.30 0.1950 0.0871

Uranus 14284-07-02 02:52 G 6938366.48 6938366.62 6938366.77 0.0134 0.0022

Uranus 14284-09-28 06:57 G 6938454.64 6938454.79 6938454.93 0.0134 0.0005

Uranus 14284-12-25 10:33 G 6938542.80 6938542.94 6938543.09 0.0134 0.0015

Uranus 14285-03-23 14:24 G 6938630.96 6938631.10 6938631.25 0.0134 0.0032

Uranus 14285-06-19 18:14 G 6938719.13 6938719.26 6938719.40 0.0134 0.0049

Uranus 14285-09-15 21:50 G 6938807.29 6938807.41 6938807.54 0.0134 0.0067

Uranus 14285-12-13 01:40 G 6938895.46 6938895.57 6938895.68 0.0134 0.0084

Uranus 14286-03-11 05:16 G 6938983.63 6938983.72 6938983.82 0.0134 0.0101

Uranus 14286-06-07 09:07 G 6939071.82 6939071.88 6939071.95 0.0134 0.0118

Jupiter 14288-10-30 20:52 G 6939948.22 6939948.37 6939948.51 0.0540 0.0060

Mars 14290-11-10 13:40 G 6940688.94 6940689.07 6940689.21 0.1587 0.0666

Moon 14291-03-29 18:28 G 6940828.20 6940828.27 6940828.34 0.2650 0.2109

Earth 14291-03-29 19:26 G 6940828.23 6940828.31 6940828.39 0.2650 0.1912 *

Mars 14293-08-27 21:50 G 6941710.40 6941710.41 6941710.43 0.1950 0.1925

Moon 14293-09-27 11:16 G 6941740.85 6941740.97 6941741.08 0.2686 0.1361

Earth 14293-09-27 12:00 G 6941740.88 6941741.00 6941741.12 0.2682 0.1150 *

Jupiter 14294-06-17 05:02 G 6942003.58 6942003.71 6942003.84 0.0488 0.0253

Jupiter 14294-09-14 20:09 G 6942093.22 6942093.34 6942093.46 0.0487 0.0323

Saturn 14294-12-08 10:04 G 6942177.83 6942177.92 6942178.02 0.0283 0.0220

Saturn 14295-03-07 02:09 G 6942266.45 6942266.59 6942266.74 0.0283 0.0107

Saturn 14295-06-03 18:43 G 6942355.13 6942355.28 6942355.44 0.0283 0.0013

Saturn 14295-08-31 11:45 G 6942443.85 6942443.99 6942444.13 0.0283 0.0129

Saturn 14295-11-28 04:48 G 6942532.64 6942532.70 6942532.78 0.0283 0.0251

Venus 14296-07-16 17:16 G 6942764.13 6942764.22 6942764.31 0.3687 0.2256

Mars 14300-04-02 19:55 G 6944119.25 6944119.33 6944119.41 0.1587 0.1312

Jupiter 14300-08-19 21:07 G 6944258.25 6944258.38 6944258.51 0.0540 0.0257

Jupiter 14300-11-17 13:55 G 6944348.01 6944348.08 6944348.15 0.0542 0.0467

Venus 14302-01-31 12:00 G 6944787.89 6944788.00 6944788.11 0.3687 0.0850

Mars 14302-03-09 21:07 G 6944825.33 6944825.38 6944825.43 0.1590 0.1477

Venus 14303-08-14 19:40 G 6945348.21 6945348.32 6945348.42 0.3683 0.2192

Moon 14304-04-01 15:07 G 6945579.01 6945579.13 6945579.26 0.2656 0.0260

Earth 14304-04-01 15:50 G 6945579.03 6945579.16 6945579.28 0.2650 0.0260 *

Mars 14304-12-25 05:31 G 6945846.64 6945846.73 6945846.82 0.1947 0.1298

Neptune 14305-07-15 21:50 G 6946049.37 6946049.41 6946049.47 0.0088 0.0083

Neptune 14305-10-12 00:14 G 6946137.43 6946137.51 6946137.60 0.0088 0.0075

Neptune 14306-01-08 02:38 G 6946225.51 6946225.61 6946225.71 0.0088 0.0067

Neptune 14306-04-06 04:33 G 6946313.58 6946313.69 6946313.82 0.0088 0.0060

Jupiter 14306-04-06 07:26 G 6946313.72 6946313.81 6946313.90 0.0489 0.0388 *

Neptune 14306-07-03 06:43 G 6946401.66 6946401.78 6946401.92 0.0088 0.0052

Jupiter 14306-07-04 22:04 G 6946403.28 6946403.42 6946403.57 0.0487 0.0182

Neptune 14306-09-29 09:07 G 6946489.75 6946489.88 6946490.02 0.0088 0.0044

Earth 14306-10-01 12:14 G 6946491.88 6946492.01 6946492.14 0.2681 0.0983

Moon 14306-10-01 12:14 G 6946491.89 6946492.01 6946492.13 0.2687 0.1066 *

Neptune 14306-12-26 11:31 G 6946577.83 6946577.98 6946578.13 0.0088 0.0036

Neptune 14307-03-24 13:40 G 6946665.92 6946666.07 6946666.23 0.0088 0.0028

Neptune 14307-06-20 15:50 G 6946754.01 6946754.16 6946754.33 0.0088 0.0021

Venus 14307-08-17 06:14 G 6946811.65 6946811.76 6946811.88 0.3688 0.0522

Neptune 14307-09-16 18:14 G 6946842.10 6946842.26 6946842.42 0.0088 0.0013

Neptune 14307-12-13 20:38 G 6946930.19 6946930.36 6946930.52 0.0088 0.0005

Neptune 14308-03-10 22:48 G 6947018.29 6947018.45 6947018.62 0.0088 0.0004

Neptune 14308-06-07 01:12 G 6947106.39 6947106.55 6947106.71 0.0088 0.0011

Neptune 14308-09-03 03:21 G 6947194.49 6947194.64 6947194.81 0.0088 0.0020

Neptune 14308-11-30 05:31 G 6947282.59 6947282.73 6947282.90 0.0088 0.0028

Neptune 14309-02-26 07:55 G 6947370.69 6947370.83 6947370.99 0.0088 0.0036

Venus 14309-02-27 19:12 G 6947372.17 6947372.30 6947372.43 0.3683 0.0240

Neptune 14309-05-25 10:19 G 6947458.80 6947458.93 6947459.08 0.0088 0.0044

Saturn 14309-07-17 00:00 G 6947511.42 6947511.50 6947511.59 0.0276 0.0228

Neptune 14309-08-21 12:43 G 6947546.90 6947547.03 6947547.17 0.0088 0.0052

Saturn 14309-10-13 14:52 G 6947599.99 6947600.12 6947600.26 0.0276 0.0121

Neptune 14309-11-17 15:07 G 6947635.02 6947635.13 6947635.26 0.0088 0.0060

Saturn 14310-01-10 05:31 G 6947688.58 6947688.73 6947688.88 0.0276 0.0016

Neptune 14310-02-13 17:31 G 6947723.13 6947723.23 6947723.34 0.0088 0.0068

Saturn 14310-04-08 19:40 G 6947777.18 6947777.32 6947777.47 0.0276 0.0088

Neptune 14310-05-12 19:40 G 6947811.26 6947811.32 6947811.41 0.0088 0.0077

Saturn 14310-07-06 09:50 G 6947865.80 6947865.91 6947866.02 0.0276 0.0188

Neptune 14310-08-08 22:04 G 6947899.39 6947899.42 6947899.48 0.0088 0.0085

Mars 14311-07-31 02:38 G 6948255.48 6948255.61 6948255.74 0.1589 0.0781

Jupiter 14312-06-07 22:19 G 6948568.35 6948568.43 6948568.52 0.0540 0.0439

Jupiter 14312-09-05 15:50 G 6948658.04 6948658.16 6948658.28 0.0542 0.0294

Venus 14313-03-02 00:28 G 6948835.42 6948835.52 6948835.62 0.3688 0.1830

Mars 14314-05-17 11:16 G 6949276.85 6949276.97 6949277.09 0.1948 0.0281

Venus 14314-09-13 19:12 G 6949396.18 6949396.30 6949396.41 0.3682 0.1842

Moon 14317-04-04 12:00 G 6950329.89 6950330.00 6950330.10 0.2658 0.1343

Earth 14317-04-04 11:45 G 6950329.89 6950329.99 6950330.10 0.2651 0.1384 *

Jupiter 14318-04-22 23:45 G 6950713.34 6950713.49 6950713.65 0.0487 0.0038

Venus 14318-09-15 18:28 G 6950859.21 6950859.27 6950859.32 0.3689 0.3102

Pluto 14320-03-12 17:45 G 6951403.24 6951403.24 6951403.27 0.0071 0.0070

Pluto 14320-06-08 18:28 G 6951491.21 6951491.27 6951491.35 0.0071 0.0061

Pluto 14320-09-04 19:12 G 6951579.22 6951579.30 6951579.40 0.0071 0.0052

Pluto 14320-12-01 19:40 G 6951667.23 6951667.32 6951667.44 0.0071 0.0043

Mars	14320-12-20 08:24 G	6951685.69	6951685.85	6951686.00	0.1588	0.0111
Pluto	14321-02-27 20:38 G	6951755.25	6951755.36	6951755.48	0.0071	0.0034
Pluto	14321-05-26 21:21 G	6951843.27	6951843.39	6951843.52	0.0071	0.0024
Pluto	14321-08-22 22:04 G	6951931.29	6951931.42	6951931.55	0.0071	0.0015
Pluto	14321-11-18 22:48 G	6952019.32	6952019.45	6952019.58	0.0072	0.0005
Pluto	14322-02-14 23:31 G	6952107.35	6952107.48	6952107.61	0.0072	0.0004
Pluto	14322-05-14 00:14 G	6952195.38	6952195.51	6952195.64	0.0072	0.0014
Pluto	14322-08-10 00:57 G	6952283.41	6952283.54	6952283.67	0.0072	0.0023
Pluto	14322-11-06 01:26 G	6952371.45	6952371.56	6952371.69	0.0072	0.0033
Pluto	14323-02-02 02:09 G	6952459.49	6952459.59	6952459.71	0.0072	0.0043
Pluto	14323-05-01 03:07 G	6952547.54	6952547.63	6952547.72	0.0072	0.0053
Pluto	14323-07-28 03:50 G	6952635.60	6952635.66	6952635.73	0.0072	0.0063
Mars	14323-10-07 16:48 G	6952707.09	6952707.20	6952707.32	0.1949	0.0754
Saturn	14324-04-27 10:04 G	6952909.86	6952909.92	6952909.98	0.0283	0.0258
Jupiter	14324-06-24 17:45 G	6952968.10	6952968.24	6952968.38	0.0541	0.0123
Saturn	14324-07-25 01:55 G	6952998.45	6952998.58	6952998.72	0.0283	0.0147
Uranus	14324-07-27 20:09 G	6953001.28	6953001.34	6953001.43	0.0145	0.0129
Saturn	14324-10-21 18:28 G	6953087.11	6953087.27	6953087.42	0.0283	0.0032
Uranus	14324-10-24 02:24 G	6953089.49	6953089.60	6953089.72	0.0145	0.0104
Saturn	14325-01-18 11:02 G	6953175.81	6953175.96	6953176.12	0.0283	0.0086
Uranus	14325-01-20 08:24 G	6953177.72	6953177.85	6953178.00	0.0145	0.0079
Saturn	14325-04-17 04:04 G	6953264.57	6953264.67	6953264.79	0.0283	0.0207
Uranus	14325-04-18 14:52 G	6953265.96	6953266.12	6953266.27	0.0145	0.0053
Uranus	14325-07-15 21:07 G	6953354.21	6953354.38	6953354.54	0.0145	0.0028
Uranus	14325-10-12 03:21 G	6953442.47	6953442.64	6953442.81	0.0145	0.0002
Uranus	14326-01-08 09:36 G	6953530.74	6953530.90	6953531.07	0.0145	0.0025
Uranus	14326-04-06 16:04 G	6953619.01	6953619.17	6953619.33	0.0145	0.0051
Uranus	14326-07-03 22:19 G	6953707.29	6953707.43	6953707.58	0.0144	0.0077
Uranus	14326-09-30 04:48 G	6953795.59	6953795.70	6953795.83	0.0144	0.0104
Uranus	14326-12-27 11:16 G	6953883.91	6953883.97	6953884.05	0.0144	0.0131

Jupiter 14330-02-09 01:40 G 6955023.42 6955023.57 6955023.72 0.0488 0.0105

Jupiter 14330-05-09 17:02 G 6955113.19 6955113.21 6955113.24 0.0486 0.0476

Mars 14330-05-12 14:09 G 6955115.95 6955116.09 6955116.23 0.1587 0.0570

Mars 14333-02-26 21:50 G 6956137.37 6956137.41 6956137.45 0.1950 0.1837

Jupiter 14336-04-12 19:12 G 6957278.16 6957278.30 6957278.45 0.0540 0.0055

Moon 14337-03-30 23:45 G 6957630.39 6957630.49 6957630.59 0.2651 0.1629

Earth 14337-03-31 00:43 G 6957630.43 6957630.53 6957630.62 0.2650 0.1566 *

Saturn 14338-12-04 00:28 G 6958243.48 6958243.52 6958243.56 0.0276 0.0266

Saturn 14339-03-02 15:36 G 6958332.02 6958332.15 6958332.27 0.0276 0.0158

Saturn 14339-05-30 06:14 G 6958420.61 6958420.76 6958420.91 0.0276 0.0051

Saturn 14339-08-26 20:38 G 6958509.22 6958509.36 6958509.51 0.0276 0.0053

Moon 14339-09-29 16:48 G 6958543.08 6958543.20 6958543.33 0.2686 0.0761

Earth 14339-09-29 17:45 G 6958543.11 6958543.24 6958543.37 0.2681 0.0731 *

Mars 14339-10-02 20:09 G 6958546.25 6958546.34 6958546.44 0.1587 0.1226

Saturn 14339-11-23 10:48 G 6958597.83 6958597.95 6958598.07 0.0276 0.0155

Saturn 14340-02-20 00:28 G 6958686.47 6958686.52 6958686.58 0.0276 0.0254

Mars 14341-09-07 21:36 G 6959252.38 6959252.40 6959252.41 0.1590 0.1576

Jupiter 14341-11-28 03:07 G 6959333.50 6959333.63 6959333.77 0.0488 0.0252

Jupiter 14342-02-25 18:14 G 6959423.15 6959423.26 6959423.38 0.0487 0.0324

Mars 14344-06-25 05:31 G 6960273.65 6960273.73 6960273.82 0.1947 0.1392

Venus 14347-08-08 20:52 G 6961413.32 6961413.37 6961413.42 0.3687 0.3267

Jupiter 14348-01-30 20:09 G 6961588.21 6961588.34 6961588.47 0.0540 0.0241

Jupiter 14348-04-29 12:57 G 6961677.98 6961678.04 6961678.11 0.0542 0.0480

Moon 14350-04-02 20:24 G 6962381.23 6962381.35 6962381.47 0.2657 0.0075

Earth 14350-04-02 20:52 G 6962381.25 6962381.37 6962381.49 0.2651 0.0117 *

Mars 14351-01-29 02:52 G 6962682.49 6962682.62 6962682.75 0.1589 0.0874

Earth 14352-10-01 18:00 G 6963294.13 6963294.25 6963294.36 0.2680 0.1423

Moon 14352-10-01 18:00 G 6963294.14 6963294.25 6963294.37 0.2688 0.1361 *

Venus 14353-02-21 15:36 G 6963437.05 6963437.15 6963437.25 0.3687 0.1819

Saturn 14353-09-14 12:43 G 6963642.02 6963642.03 6963642.04 0.0283 0.0281

Jupiter 14353-09-16 05:16 G 6963643.63 6963643.72 6963643.82 0.0489 0.0391

Mars 14353-11-15 11:31 G 6963703.86 6963703.98 6963704.10 0.1949 0.0391

Saturn 14353-12-12 04:33 G 6963730.57 6963730.69 6963730.82 0.0283 0.0170

Jupiter 14353-12-14 19:55 G 6963733.19 6963733.33 6963733.48 0.0487 0.0181

Saturn 14354-03-10 20:52 G 6963819.22 6963819.37 6963819.52 0.0283 0.0055

Saturn 14354-06-07 13:26 G 6963907.91 6963908.06 6963908.22 0.0283 0.0063

Saturn 14354-09-04 06:28 G 6963996.65 6963996.77 6963996.90 0.0283 0.0182

Venus 14354-09-04 20:09 G 6963997.30 6963997.34 6963997.37 0.3684 0.3487

Venus 14358-09-07 10:04 G 6965460.81 6965460.92 6965461.04 0.3688 0.0444

Jupiter 14359-11-18 20:09 G 6965898.26 6965898.34 6965898.42 0.0539 0.0444

Jupiter 14360-02-16 13:40 G 6965987.95 6965988.07 6965988.19 0.0542 0.0288

Venus 14360-03-20 19:12 G 6966021.18 6966021.30 6966021.42 0.3683 0.1601

Mars 14360-06-20 08:38 G 6966112.71 6966112.86 6966113.01 0.1588 0.0196

Earth 14363-04-05 17:02 G 6967132.12 6967132.21 6967132.30 0.2651 0.1723

Moon 14363-04-05 17:16 G 6967132.13 6967132.22 6967132.31 0.2658 0.1828 *

Mars 14363-04-07 17:02 G 6967134.09 6967134.21 6967134.33 0.1949 0.0651

Venus 14364-03-23 04:33 G 6967484.58 6967484.69 6967484.80 0.3688 0.0930

Jupiter 14365-10-02 22:04 G 6968043.27 6968043.42 6968043.58 0.0487 0.0042

Venus 14365-10-04 18:57 G 6968045.16 6968045.29 6968045.42 0.3683 0.0406

Uranus 14367-02-10 10:04 G 6968538.89 6968538.92 6968538.98 0.0133 0.0127

Uranus 14367-05-09 14:09 G 6968627.01 6968627.09 6968627.18 0.0133 0.0108

Uranus 14367-08-05 18:14 G 6968715.16 6968715.26 6968715.37 0.0133 0.0090

Uranus 14367-11-01 22:19 G 6968803.30 6968803.43 6968803.55 0.0133 0.0072

Uranus 14368-01-29 02:09 G 6968891.46 6968891.59 6968891.73 0.0133 0.0054

Uranus 14368-04-26 06:00 G 6968979.61 6968979.75 6968979.90 0.0134 0.0036

Saturn 14368-07-19 18:14 G 6969064.15 6969064.26 6969064.38 0.0276 0.0179

Uranus 14368-07-23 10:04 G 6969067.77 6969067.92 6969068.06 0.0134 0.0018

Saturn 14368-10-16 09:07 G 6969152.73 6969152.88 6969153.03 0.0276 0.0072

Uranus 14368-10-19 13:55 G 6969155.93 6969156.08 6969156.22 0.0134 0.0003

Saturn 14369-01-12 23:31 G 6969241.33 6969241.48 6969241.63 0.0276 0.0032

Uranus 14369-01-15 17:45 G 6969244.09 6969244.24 6969244.38 0.0134 0.0018

Saturn 14369-04-11 13:40 G 6969329.94 6969330.07 6969330.20 0.0276 0.0134

Uranus 14369-04-13 21:21 G 6969332.26 6969332.39 6969332.54 0.0134 0.0036

Saturn 14369-07-09 03:36 G 6969418.57 6969418.65 6969418.73 0.0276 0.0233

Uranus 14369-07-11 01:12 G 6969420.42 6969420.55 6969420.69 0.0134 0.0053

Venus 14369-10-06 22:33 G 6969508.35 6969508.44 6969508.53 0.3688 0.2232

Uranus 14369-10-07 04:48 G 6969508.59 6969508.70 6969508.83 0.0134 0.0071

Mars 14369-11-10 14:38 G 6969542.97 6969543.11 6969543.25 0.1587 0.0475

Uranus 14370-01-03 08:38 G 6969596.76 6969596.86 6969596.97 0.0134 0.0088

Uranus 14370-04-01 12:28 G 6969684.93 6969685.02 6969685.11 0.0134 0.0105

Uranus 14370-06-28 16:04 G 6969773.12 6969773.17 6969773.23 0.0134 0.0122

Venus 14371-04-20 18:57 G 6970069.20 6970069.29 6970069.39 0.3682 0.2503

Jupiter 14371-12-05 15:21 G 6970298.00 6970298.14 6970298.28 0.0541 0.0112

Mars 14372-08-27 22:04 G 6970564.37 6970564.42 6970564.48 0.1950 0.1723

Moon 14372-09-26 22:19 G 6970594.39 6970594.43 6970594.47 0.2685 0.2518

Earth 14372-09-26 23:31 G 6970594.42 6970594.48 6970594.54 0.2682 0.2379 *

Venus 14375-04-22 16:33 G 6971532.15 6971532.19 6971532.22 0.3689 0.3491

Jupiter 14377-07-22 00:00 G 6972353.35 6972353.50 6972353.65 0.0488 0.0102

Jupiter 14377-10-19 15:21 G 6972443.12 6972443.14 6972443.17 0.0486 0.0479

Mars 14379-04-02 20:38 G 6972973.26 6972973.36 6972973.47 0.1586 0.1129

Moon 14383-04-01 05:02 G 6974432.60 6974432.71 6974432.81 0.2653 0.1342

Earth 14383-04-01 05:45 G 6974432.63 6974432.74 6974432.85 0.2650 0.1208 *

Saturn 14383-05-01 04:19 G 6974462.58 6974462.68 6974462.78 0.0283 0.0210

Saturn 14383-07-28 20:24 G 6974551.21 6974551.35 6974551.50 0.0283 0.0097

Jupiter 14383-09-23 17:02 G 6974608.07 6974608.21 6974608.36 0.0541 0.0062

Saturn 14383-10-25 12:57 G 6974639.88 6974640.04 6974640.20 0.0283 0.0020

Mars 14383-12-25 05:45 G 6974700.67 6974700.74 6974700.82 0.1947 0.1499

Saturn 14384-01-22 05:45 G 6974728.60 6974728.74 6974728.88 0.0283 0.0139

Saturn 14384-04-19 23:02 G 6974817.40 6974817.46 6974817.52 0.0283 0.0260

Moon 14385-09-29 22:48 G 6975345.32 6975345.45 6975345.58 0.2687 0.0426

Earth 14385-09-29 23:16 G 6975345.34 6975345.47 6975345.61 0.2681 0.0305 *

Neptune 14388-04-19 17:31 G 6976278.23 6976278.23 6976278.28 0.0089 0.0089

Neptune 14388-07-16 19:40 G 6976366.27 6976366.32 6976366.41 0.0089 0.0081

Neptune 14388-10-12 21:50 G 6976454.34 6976454.41 6976454.52 0.0089 0.0072

Neptune 14389-01-09 00:00 G 6976542.41 6976542.50 6976542.62 0.0089 0.0064

Neptune 14389-04-07 01:55 G 6976630.48 6976630.58 6976630.72 0.0089 0.0057

Jupiter 14389-05-10 01:55 G 6976663.45 6976663.58 6976663.72 0.0488 0.0243

Neptune 14389-07-04 04:04 G 6976718.55 6976718.67 6976718.81 0.0089 0.0048

Jupiter 14389-08-07 17:02 G 6976753.09 6976753.21 6976753.32 0.0486 0.0333

Neptune 14389-09-30 06:14 G 6976806.63 6976806.76 6976806.91 0.0089 0.0040

Neptune 14389-12-27 08:09 G 6976894.71 6976894.84 6976895.00 0.0089 0.0033

Neptune 14390-03-25 10:19 G 6976982.79 6976982.93 6976983.08 0.0089 0.0024

Neptune 14390-06-21 12:28 G 6977070.87 6977071.02 6977071.17 0.0089 0.0016

Mars 14390-07-30 03:21 G 6977109.53 6977109.64 6977109.76 0.1588 0.0979

Neptune 14390-09-17 14:24 G 6977158.95 6977159.10 6977159.26 0.0089 0.0009

Neptune 14390-12-14 16:33 G 6977247.04 6977247.19 6977247.34 0.0089 0.0001

Neptune 14391-03-12 18:28 G 6977335.12 6977335.27 6977335.42 0.0089 0.0007

Neptune 14391-06-08 20:24 G 6977423.20 6977423.35 6977423.50 0.0089 0.0015

Neptune 14391-09-04 22:19 G 6977511.29 6977511.43 6977511.58 0.0089 0.0023

Neptune 14391-12-02 00:14 G 6977599.37 6977599.51 6977599.66 0.0089 0.0031

Neptune 14392-02-28 02:09 G 6977687.46 6977687.59 6977687.73 0.0089 0.0038

Neptune 14392-05-26 04:19 G 6977775.55 6977775.68 6977775.81 0.0089 0.0046

Neptune 14392-08-22 06:00 G 6977863.64 6977863.75 6977863.88 0.0089 0.0054

Neptune 14392-11-18 07:55 G 6977951.73 6977951.83 6977951.95 0.0089 0.0061

Neptune 14393-02-14 09:50 G 6978039.83 6978039.91 6978040.01 0.0089 0.0069

Neptune 14393-05-13 11:31 G 6978127.92 6978127.98 6978128.08 0.0089 0.0077

Mars 14393-05-16 11:45 G 6978130.87 6978130.99 6978131.10 0.1948 0.0495

Neptune 14393-08-09 13:40 G 6978216.03 6978216.07 6978216.13 0.0089 0.0084

Jupiter 14395-07-12 18:43 G 6978918.15 6978918.28 6978918.41 0.0540 0.0237

Jupiter 14395-10-10 11:31 G 6979007.92 6979007.98 6979008.04 0.0542 0.0486

Moon 14396-04-03 01:40 G 6979183.45 6979183.57 6979183.69 0.2657 0.0457

Earth 14396-04-03 02:09 G 6979183.47 6979183.59 6979183.71 0.2651 0.0453 *

Saturn 14397-12-06 18:28 G 6979796.18 6979796.27 6979796.37 0.0276 0.0217

Saturn 14398-03-05 09:21 G 6979884.76 6979884.89 6979885.04 0.0276 0.0111

Saturn 14398-06-02 00:14 G 6979973.35 6979973.51 6979973.66 0.0276 0.0009

Saturn 14398-08-29 14:24 G 6980061.96 6980062.10 6980062.24 0.0276 0.0098

Earth 14398-10-02 23:31 G 6980096.38 6980096.48 6980096.58 0.2680 0.1854

Moon 14398-10-02 23:45 G 6980096.40 6980096.49 6980096.58 0.2687 0.1972 *

Saturn 14398-11-26 04:19 G 6980150.58 6980150.68 6980150.78 0.0276 0.0199

Mars 14399-12-20 09:07 G 6980539.73 6980539.88 6980540.03 0.1588 0.0288

Jupiter 14401-02-26 03:36 G 6980973.56 6980973.65 6980973.75 0.0489 0.0388

Jupiter 14401-05-26 18:14 G 6981063.12 6981063.26 6981063.41 0.0487 0.0183

Mars 14402-10-06 17:02 G 6981561.09 6981561.21 6981561.33 0.1950 0.0554

Venus 14404-03-14 19:12 G 6982086.23 6982086.30 6982086.37 0.3687 0.2815

Pluto 14405-11-01 02:24 G 6982682.53 6982682.60 6982682.69 0.0073 0.0067

Pluto 14406-01-28 05:02 G 6982770.58 6982770.71 6982770.85 0.0073 0.0052

Pluto 14406-04-26 06:57 G 6982858.64 6982858.79 6982858.97 0.0073 0.0038

Pluto 14406-07-23 09:36 G 6982946.72 6982946.90 6982947.09 0.0073 0.0022

Pluto 14406-10-19 12:00 G 6983034.81 6983035.00 6983035.19 0.0073 0.0008

Pluto 14407-01-15 14:09 G 6983122.91 6983123.09 6983123.29 0.0073 0.0007

Pluto 14407-04-13 16:33 G 6983211.01 6983211.19 6983211.38 0.0073 0.0021

Jupiter 14407-04-30 19:26 G 6983228.23 6983228.31 6983228.40 0.0539 0.0425

Pluto 14407-07-10 18:43 G 6983299.12 6983299.28 6983299.46 0.0073 0.0035

Jupiter 14407-07-29 12:57 G 6983317.92 6983318.04 6983318.16 0.0541 0.0306

Pluto 14407-10-06 21:07 G 6983387.24 6983387.38 6983387.52 0.0073 0.0049

Pluto 14408-01-02 23:16 G 6983475.38 6983475.47 6983475.57 0.0072 0.0063

Uranus 14408-08-17 03:36 G 6983702.57 6983702.65 6983702.74 0.0145 0.0123

Uranus 14408-11-13 09:36 G 6983790.79 6983790.90 6983791.03 0.0145 0.0098

Uranus 14409-02-09 16:04 G 6983879.02 6983879.17 6983879.31 0.0145 0.0072

Earth 14409-04-05 22:04 G 6983934.35 6983934.42 6983934.50 0.2652 0.2063

Moon 14409-04-05 22:33 G 6983934.37 6983934.44 6983934.52 0.2658 0.2054 *

Uranus 14409-05-08 22:04 G 6983967.27 6983967.42 6983967.58 0.0145 0.0047

Mars 14409-05-11 14:52 G 6983969.98 6983970.12 6983970.27 0.1587 0.0385

Uranus 14409-08-05 04:19 G 6984055.52 6984055.68 6984055.85 0.0145 0.0021

Venus 14409-09-28 13:55 G 6984109.98 6984110.08 6984110.19 0.3687 0.1381

Uranus 14409-11-01 10:48 G 6984143.78 6984143.95 6984144.12 0.0145 0.0005

Uranus 14410-01-28 17:02 G 6984232.05 6984232.21 6984232.38 0.0145 0.0031

Uranus 14410-04-26 23:16 G 6984320.32 6984320.47 6984320.63 0.0145 0.0058

Uranus 14410-07-24 06:00 G 6984408.61 6984408.75 6984408.89 0.0145 0.0084

Uranus 14410-10-20 12:14 G 6984496.91 6984497.01 6984497.13 0.0144 0.0111

Uranus 14411-01-16 18:43 G 6984585.24 6984585.28 6984585.34 0.0144 0.0138

Venus 14411-04-11 19:26 G 6984670.24 6984670.31 6984670.39 0.3683 0.2922

Mars 14412-02-26 22:19 G 6984991.37 6984991.43 6984991.50 0.1950 0.1613

Saturn 14412-09-17 06:28 G 6985194.68 6985194.77 6985194.85 0.0283 0.0236

Saturn 14412-12-14 22:19 G 6985283.29 6985283.43 6985283.57 0.0283 0.0124

Saturn 14413-03-13 14:52 G 6985371.96 6985372.12 6985372.28 0.0283 0.0009

Jupiter 14413-03-14 20:09 G 6985373.18 6985373.34 6985373.50 0.0488 0.0041

Saturn 14413-06-10 07:40 G 6985460.67 6985460.82 6985460.97 0.0283 0.0111

Saturn 14413-09-07 00:43 G 6985549.45 6985549.53 6985549.63 0.0283 0.0232

Venus 14415-04-14 08:24 G 6986133.74 6986133.85 6986133.96 0.3688 0.0033

Earth 14416-03-29 14:24 G 6986484.07 6986484.10 6986484.13 0.2649 0.2555

Venus 14416-10-25 18:43 G 6986694.16 6986694.28 6986694.41 0.3683 0.1008

Moon 14418-09-28 04:04 G 6987396.59 6987396.67 6987396.75 0.2685 0.2104

Earth 14418-09-28 05:02 G 6987396.62 6987396.71 6987396.80 0.2682 0.1961 *

Mars 14418-10-01 21:07 G 6987400.27 6987400.38 6987400.49 0.1587 0.1036

Jupiter 14419-05-17 13:26 G 6987627.92 6987628.06 6987628.20 0.0541 0.0109

Venus 14420-10-28 02:38 G 6988157.51 6988157.61 6988157.72 0.3688 0.1342

Venus 14422-05-11 18:43 G 6988718.15 6988718.28 6988718.40 0.3682 0.1027

Mars 14423-06-25 06:00 G 6989127.69 6989127.75 6989127.82 0.1947 0.1611

Jupiter 14424-12-31 22:33 G 6989683.28 6989683.44 6989683.59 0.0488 0.0097

Jupiter 14425-03-31 13:55 G 6989773.07 6989773.08 6989773.09 0.0486 0.0485

Venus 14426-05-13 20:38 G 6990181.28 6990181.36 6990181.44 0.3689 0.2628

Saturn 14427-04-25 21:21 G 6990528.31 6990528.39 6990528.47 0.0276 0.0238

Saturn 14427-07-23 12:14 G 6990616.88 6990617.01 6990617.15 0.0276 0.0131

Saturn 14427-10-20 02:52 G 6990705.47 6990705.62 6990705.77 0.0276 0.0026

Venus 14427-11-25 18:57 G 6990742.22 6990742.29 6990742.36 0.3682 0.3159

Saturn 14428-01-16 17:16 G 6990794.08 6990794.22 6990794.36 0.0276 0.0078

Saturn 14428-04-14 07:12 G 6990882.69 6990882.80 6990882.92 0.0276 0.0179

Moon 14429-04-01 10:19 G 6991234.81 6991234.93 6991235.04 0.2654 0.0957

Earth 14429-04-01 11:02 G 6991234.84 6991234.96 6991235.07 0.2650 0.0859 *

Mars 14430-01-28 03:50 G 6991536.55 6991536.66 6991536.77 0.1589 0.1075

Jupiter 14431-03-05 14:52 G 6991937.97 6991938.12 6991938.26 0.0541 0.0071

Moon 14431-10-01 04:48 G 6992147.56 6992147.70 6992147.83 0.2688 0.0138

Earth 14431-10-01 05:02 G 6992147.57 6992147.71 6992147.85 0.2681 0.0131 *

Mars 14432-11-14 11:45 G 6992557.87 6992557.99 6992558.11 0.1948 0.0591

Jupiter 14436-10-20 00:28 G 6993993.39 6993993.52 6993993.66 0.0488 0.0237

Jupiter 14437-01-17 15:21 G 6994083.03 6994083.14 6994083.26 0.0486 0.0338

Mars 14439-06-20 09:36 G 6994966.75 6994966.90 6994967.04 0.1588 0.0388

Saturn 14442-02-04 06:14 G 6995926.73 6995926.76 6995926.80 0.0283 0.0275

Moon 14442-04-04 06:57 G 6995985.68 6995985.79 6995985.91 0.2657 0.0735

Earth 14442-04-04 07:12 G 6995985.69 6995985.80 6995985.92 0.2651 0.0797 *

Mars 14442-04-06 17:16 G 6995988.10 6995988.22 6995988.34 0.1950 0.0444

Saturn 14442-05-03 22:04 G 6996015.30 6996015.42 6996015.55 0.0283 0.0164

Saturn 14442-07-31 14:24 G 6996103.95 6996104.10 6996104.26 0.0283 0.0050

Saturn 14442-10-28 07:12 G 6996192.64 6996192.80 6996192.95 0.0283 0.0068

Jupiter 14442-12-22 16:33 G 6996248.06 6996248.19 6996248.32 0.0540 0.0244

Saturn 14443-01-25 00:00 G 6996281.39 6996281.50 6996281.63 0.0283 0.0188

Jupiter 14443-03-22 09:36 G 6996337.84 6996337.90 6996337.96 0.0542 0.0481

Earth 14444-10-03 05:16 G 6996898.65 6996898.72 6996898.79 0.2680 0.2300

Moon 14444-10-03 05:45 G 6996898.67 6996898.74 6996898.80 0.2687 0.2285 *

Jupiter 14448-08-08 02:38 G 6998303.52 6998303.61 6998303.71 0.0489 0.0375

Jupiter 14448-11-05 17:16 G 6998393.07 6998393.22 6998393.36 0.0487 0.0194

Mars 14448-11-09 15:21 G 6998396.99 6998397.14 6998397.29 0.1587 0.0288

Uranus 14451-03-02 17:31 G 6999240.17 6999240.23 6999240.29 0.0133 0.0121

Uranus 14451-05-29 21:21 G 6999328.31 6999328.39 6999328.49 0.0133 0.0103

Uranus 14451-08-26 01:12 G 6999416.45 6999416.55 6999416.68 0.0133 0.0086

Mars 14451-08-27 22:33 G 6999418.36 6999418.44 6999418.52 0.1950 0.1513

Uranus 14451-11-22 05:31 G 6999504.60 6999504.73 6999504.86 0.0133 0.0067

Uranus 14452-02-18 09:21 G 6999592.76 6999592.89 6999593.03 0.0133 0.0049

Uranus 14452-05-16 13:26 G 6999680.91 6999681.06 6999681.20 0.0134 0.0031

Uranus 14452-08-12 17:16 G 6999769.07 6999769.22 6999769.36 0.0134 0.0013

Uranus 14452-11-08 21:07 G 6999857.23 6999857.38 6999857.52 0.0134 0.0005

Uranus 14453-02-05 00:57 G 6999945.39 6999945.54 6999945.68 0.0134 0.0023

Uranus 14453-05-04 04:33 G 7000033.56 7000033.69 7000033.83 0.0134 0.0041

Uranus 14453-07-31 08:24 G 7000121.72 7000121.85 7000121.98 0.0134 0.0058

Uranus 14453-10-27 12:00 G 7000209.89 7000210.00 7000210.13 0.0134 0.0076

Uranus 14454-01-23 15:50 G 7000298.06 7000298.16 7000298.27 0.0134 0.0093

Uranus 14454-04-21 19:26 G 7000386.24 7000386.31 7000386.40 0.0134 0.0110

Uranus 14454-07-18 23:16 G 7000474.43 7000474.47 7000474.52 0.0134 0.0127

Jupiter 14454-10-10 18:00 G 7000558.16 7000558.25 7000558.34 0.0539 0.0420

Jupiter 14455-01-08 11:31 G 7000647.87 7000647.98 7000648.10 0.0542 0.0312

Earth 14455-04-07 03:21 G 7000736.59 7000736.64 7000736.69 0.2652 0.2395

Moon 14455-04-07 03:50 G 7000736.62 7000736.66 7000736.69 0.2658 0.2533 *

Saturn 14456-12-09 12:14 G 7001348.89 7001349.01 7001349.13 0.0276 0.0171

Saturn 14457-03-08 03:07 G 7001437.48 7001437.63 7001437.78 0.0276 0.0065

Saturn 14457-06-04 17:31 G 7001526.08 7001526.23 7001526.38 0.0276 0.0039

Saturn 14457-09-01 07:40 G 7001614.69 7001614.82 7001614.95 0.0276 0.0141

Saturn 14457-11-28 21:21 G 7001703.33 7001703.39 7001703.47 0.0276 0.0241

Mars 14458-04-01 21:21 G 7001827.27 7001827.39 7001827.51 0.1586 0.0948

Jupiter 14460-08-24 18:43 G 7002703.12 7002703.28 7002703.43 0.0487 0.0046

Venus 14460-10-19 17:31 G 7002759.14 7002759.23 7002759.32 0.3687 0.2368

Moon 14462-03-30 18:57 G 7003286.23 7003286.29 7003286.34 0.2649 0.2359

Earth 14462-03-30 19:40 G 7003286.26 7003286.32 7003286.39 0.2649 0.2190 *

Mars 14462-12-24 06:00 G 7003554.69 7003554.75 7003554.81 0.1947 0.1695

Moon 14464-09-28 09:50 G 7004198.81 7004198.91 7004199.01 0.2685 0.1698

Earth 14464-09-28 10:48 G 7004198.84 7004198.95 7004199.06 0.2682 0.1541 *

Venus 14466-05-05 12:14 G 7004782.90 7004783.01 7004783.12 0.3687 0.0948

Jupiter 14466-10-27 12:57 G 7004957.90 7004958.04 7004958.18 0.0541 0.0131

Venus 14467-11-16 18:57 G 7005343.19 7005343.29 7005343.39 0.3683 0.2348

Mars 14469-07-29 04:19 G 7005963.58 7005963.68 7005963.78 0.1589 0.1171

Neptune 14470-01-13 18:43 G 7006132.28 7006132.28 7006132.30 0.0088 0.0088

Neptune 14470-04-11 20:52 G 7006220.32 7006220.37 7006220.45 0.0088 0.0080

Neptune 14470-07-08 23:16 G 7006308.38 7006308.47 7006308.56 0.0088 0.0072

Neptune 14470-10-05 01:12 G 7006396.46 7006396.55 7006396.67 0.0088 0.0065

Neptune 14471-01-01 03:36 G 7006484.54 7006484.65 7006484.78 0.0088 0.0057

Neptune 14471-03-30 05:45 G 7006572.62 7006572.74 7006572.88 0.0088 0.0049

Neptune 14471-06-26 08:09 G 7006660.70 7006660.84 7006660.99 0.0088 0.0041

Saturn 14471-09-20 23:31 G 7006747.37 7006747.48 7006747.60 0.0283 0.0194

Neptune 14471-09-22 10:33 G 7006748.79 7006748.94 7006749.09 0.0088 0.0033

Venus 14471-11-19 06:43 G 7006806.66 7006806.78 7006806.89 0.3688 0.0431

Saturn 14471-12-18 15:50 G 7006836.01 7006836.16 7006836.31 0.0283 0.0080

Neptune 14471-12-19 12:43 G 7006836.88 7006837.03 7006837.19 0.0088 0.0025

Saturn 14472-03-16 08:24 G 7006924.69 7006924.85 7006925.01 0.0283 0.0037

Neptune 14472-03-16 14:52 G 7006924.97 7006925.12 7006925.28 0.0088 0.0018 *

Mars 14472-05-15 12:00 G 7006984.89 7006985.00 7006985.12 0.1949 0.0706

Neptune 14472-06-12 17:16 G 7007013.06 7007013.22 7007013.38 0.0088 0.0010

Jupiter 14472-06-12 20:38 G 7007013.21 7007013.36 7007013.52 0.0488 0.0095 *

Saturn 14472-06-13 01:12 G 7007013.42 7007013.55 7007013.69 0.0283 0.0156 *

Neptune 14472-09-08 19:26 G 7007101.15 7007101.31 7007101.48 0.0088 0.0003

Saturn 14472-09-09 18:28 G 7007102.25 7007102.27 7007102.30 0.0283 0.0278

Neptune 14472-12-05 21:50 G 7007189.25 7007189.41 7007189.57 0.0088 0.0006

Neptune 14473-03-04 00:00 G 7007277.34 7007277.50 7007277.67 0.0088 0.0015

Neptune 14473-05-31 02:09 G 7007365.44 7007365.59 7007365.76 0.0088 0.0023

Venus 14473-06-01 18:28 G 7007367.14 7007367.27 7007367.40 0.3683 0.0402

Neptune 14473-08-27 04:33 G 7007453.55 7007453.69 7007453.85 0.0088 0.0031

Neptune 14473-11-23 06:57 G 7007541.65 7007541.79 7007541.94 0.0088 0.0039

Neptune 14474-02-19 09:07 G 7007629.75 7007629.88 7007630.03 0.0088 0.0047

Neptune 14474-05-18 11:31 G 7007717.86 7007717.98 7007718.12 0.0088 0.0055

Neptune 14474-08-14 13:55 G 7007805.98 7007806.08 7007806.21 0.0088 0.0063

Neptune 14474-11-10 16:33 G 7007894.10 7007894.19 7007894.29 0.0088 0.0071

Neptune 14475-02-06 18:28 G 7007982.22 7007982.27 7007982.36 0.0088 0.0080

Moon 14475-04-02 15:21 G 7008037.03 7008037.14 7008037.26 0.2655 0.0605

Earth 14475-04-02 16:04 G 7008037.05 7008037.17 7008037.29 0.2650 0.0514 *

Neptune 14475-05-05 21:21 G 7008070.39 7008070.39 7008070.40 0.0088 0.0088

Venus 14477-06-04 00:57 G 7008830.44 7008830.54 7008830.63 0.3688 0.1751

Moon 14477-10-01 10:33 G 7008949.81 7008949.94 7008950.07 0.2688 0.0530

Earth 14477-10-01 10:48 G 7008949.81 7008949.95 7008950.08 0.2681 0.0568 *

Jupiter 14478-08-15 12:57 G 7009267.90 7009268.04 7009268.19 0.0540 0.0072

Venus 14478-12-16 18:28 G 7009391.15 7009391.27 7009391.38 0.3682 0.1660

Mars 14478-12-19 09:50 G 7009393.77 7009393.91 7009394.06 0.1588 0.0486

Mars 14481-10-05 17:31 G 7010415.11 7010415.23 7010415.35 0.1949 0.0336

Venus 14482-12-18 18:43 G 7010854.22 7010854.28 7010854.34 0.3689 0.3019

Jupiter 14484-03-31 23:02 G 7011323.33 7011323.46 7011323.60 0.0488 0.0230

Jupiter 14484-06-29 13:55 G 7011412.98 7011413.08 7011413.20 0.0487 0.0347

Saturn 14486-04-28 14:52 G 7012081.02 7012081.12 7012081.24 0.0276 0.0192

Saturn 14486-07-26 06:00 G 7012169.60 7012169.75 7012169.89 0.0276 0.0085

Saturn 14486-10-22 20:24 G 7012258.20 7012258.35 7012258.50 0.0276 0.0020

Saturn 14487-01-19 10:33 G 7012346.81 7012346.94 7012347.08 0.0276 0.0121

Saturn 14487-04-18 00:28 G 7012435.44 7012435.52 7012435.61 0.0276 0.0221

Moon 14488-04-04 12:28 G 7012787.91 7012788.02 7012788.13 0.2658 0.1158

Earth	14488-04-04 12:28 G	7012787.91	7012788.02	7012788.13	0.2651	0.1133 *
Mars	14488-05-10 15:50 G	7012824.01	7012824.16	7012824.31	0.1587	0.0190
Jupiter	14490-06-03 14:24 G	7013577.97	7013578.10	7013578.23	0.0540	0.0252
Jupiter	14490-09-01 07:26 G	7013667.74	7013667.81	7013667.88	0.0542	0.0474
Mars	14491-02-25 22:48 G	7013845.36	7013845.45	7013845.53	0.1950	0.1406
Uranus	14492-06-10 04:48 G	7014315.68	7014315.70	7014315.75	0.0145	0.0142
Uranus	14492-09-06 11:02 G	7014403.87	7014403.96	7014404.06	0.0145	0.0116
Uranus	14492-12-03 17:02 G	7014492.09	7014492.21	7014492.35	0.0145	0.0091
Uranus	14493-03-01 23:16 G	7014580.33	7014580.47	7014580.62	0.0145	0.0066
Uranus	14493-05-29 05:31 G	7014668.57	7014668.73	7014668.89	0.0145	0.0040
Uranus	14493-08-25 11:45 G	7014756.83	7014756.99	7014757.16	0.0145	0.0014
Uranus	14493-11-21 18:00 G	7014845.09	7014845.25	7014845.42	0.0145	0.0013
Uranus	14494-02-18 00:28 G	7014933.36	7014933.52	7014933.68	0.0145	0.0038
Uranus	14494-05-17 06:43 G	7015021.64	7015021.78	7015021.94	0.0145	0.0065
Uranus	14494-08-13 13:12 G	7015109.93	7015110.05	7015110.19	0.0145	0.0091
Uranus	14494-11-09 19:40 G	7015198.23	7015198.32	7015198.43	0.0144	0.0118
Uranus	14495-02-06 02:24 G	7015286.60	7015286.60	7015286.61	0.0144	0.0144
Jupiter	14496-01-19 01:12 G	7015633.45	7015633.55	7015633.65	0.0489	0.0368
Jupiter	14496-04-17 15:50 G	7015723.02	7015723.16	7015723.30	0.0487	0.0202
Mars	14497-09-30 21:50 G	7016254.29	7016254.41	7016254.54	0.1586	0.0850
Saturn	14501-02-07 23:31 G	7017479.40	7017479.48	7017479.57	0.0283	0.0233
Saturn	14501-05-07 15:36 G	7017568.01	7017568.15	7017568.29	0.0283	0.0121
Saturn	14501-08-04 07:55 G	7017656.67	7017656.83	7017656.99	0.0283	0.0005
Saturn	14501-11-01 00:43 G	7017745.38	7017745.53	7017745.67	0.0283	0.0113
Saturn	14502-01-28 17:45 G	7017834.16	7017834.24	7017834.33	0.0283	0.0234
Jupiter	14502-03-23 15:50 G	7017888.07	7017888.16	7017888.25	0.0540	0.0427
Jupiter	14502-06-21 09:36 G	7017977.78	7017977.90	7017978.01	0.0542	0.0307
Mars	14502-06-25 06:14 G	7017981.72	7017981.76	7017981.81	0.1947	0.1812
Mars	14507-02-22 04:04 G	7019684.63	7019684.67	7019684.72	0.1586	0.1500
Jupiter	14508-02-05 17:45 G	7020033.08	7020033.24	7020033.40	0.0487	0.0060

Moon	14508-04-01 00:00 G	7020088.42	7020088.50	7020088.59	0.2651	0.1893
Earth	14508-04-01 00:57 G	7020088.45	7020088.54	7020088.63	0.2649	0.1835 *
Mars	14509-01-28 04:48 G	7020390.61	7020390.70	7020390.79	0.1588	0.1273
Moon	14510-09-30 15:36 G	7021001.03	7021001.15	7021001.27	0.2687	0.1172
Earth	14510-09-30 16:19 G	7021001.06	7021001.18	7021001.30	0.2682	0.1125 *
Venus	14511-11-11 21:07 G	7021408.33	7021408.38	7021408.42	0.3687	0.3381
Mars	14511-11-15 12:00 G	7021411.89	7021412.00	7021412.12	0.1948	0.0801
Jupiter	14514-04-09 11:31 G	7022287.84	7022287.98	7022288.12	0.0541	0.0138
Saturn	14515-09-16 14:38 G	7022813.03	7022813.11	7022813.19	0.0276	0.0235
Saturn	14515-12-14 05:45 G	7022901.60	7022901.74	7022901.87	0.0276	0.0127
Saturn	14516-03-11 20:24 G	7022990.20	7022990.35	7022990.50	0.0276	0.0022
Saturn	14516-06-08 10:33 G	7023078.80	7023078.94	7023079.09	0.0276	0.0082
Saturn	14516-09-05 00:43 G	7023167.42	7023167.53	7023167.64	0.0276	0.0182
Venus	14517-05-27 15:50 G	7023432.07	7023432.16	7023432.26	0.3687	0.1925
Mars	14518-06-20 10:19 G	7023820.79	7023820.93	7023821.07	0.1588	0.0578
Venus	14518-12-08 19:26 G	7023992.30	7023992.31	7023992.33	0.3684	0.3634
Jupiter	14519-11-24 19:26 G	7024343.15	7024343.31	7024343.46	0.0488	0.0088
Moon	14521-04-03 20:52 G	7024839.24	7024839.37	7024839.49	0.2655	0.0279
Earth	14521-04-03 21:21 G	7024839.27	7024839.39	7024839.51	0.2650	0.0158 *
Mars	14521-04-06 17:31 G	7024842.11	7024842.23	7024842.36	0.1950	0.0248
Venus	14522-12-11 10:33 G	7025455.82	7025455.94	7025456.05	0.3688	0.0532
Moon	14523-10-03 16:04 G	7025752.05	7025752.17	7025752.30	0.2688	0.0971
Earth	14523-10-03 16:19 G	7025752.06	7025752.18	7025752.31	0.2681	0.0999 *
Venus	14524-06-23 18:28 G	7026016.16	7026016.27	7026016.39	0.3683	0.1772
Jupiter	14526-01-26 12:43 G	7026597.89	7026598.03	7026598.18	0.0540	0.0045
Mars	14527-11-10 16:19 G	7027251.03	7027251.18	7027251.33	0.1587	0.0104
Venus	14528-06-26 04:48 G	7027479.59	7027479.70	7027479.81	0.3688	0.0844
Venus	14530-01-07 18:00 G	7028040.12	7028040.25	7028040.39	0.3683	0.0242
Saturn	14530-06-28 00:28 G	7028211.47	7028211.52	7028211.57	0.0283	0.0266
Mars	14530-08-27 23:02 G	7028272.37	7028272.46	7028272.56	0.1950	0.1287

Saturn	14530-09-24 16:19 G	7028300.05	7028300.18	7028300.31	0.0283	0.0155
Saturn	14530-12-22 08:38 G	7028388.71	7028388.86	7028389.02	0.0283	0.0040
Saturn	14531-03-21 01:26 G	7028477.40	7028477.56	7028477.71	0.0283	0.0078
Saturn	14531-06-17 18:14 G	7028566.15	7028566.26	7028566.38	0.0283	0.0198
Jupiter	14531-09-12 21:36 G	7028653.26	7028653.40	7028653.53	0.0488	0.0226
Jupiter	14531-12-11 12:28 G	7028742.91	7028743.02	7028743.13	0.0487	0.0351
Venus	14534-01-09 22:48 G	7029503.36	7029503.45	7029503.55	0.3689	0.2143
Earth	14534-04-06 17:31 G	7029590.13	7029590.23	7029590.33	0.2651	0.1479
Moon	14534-04-06 17:45 G	7029590.14	7029590.24	7029590.34	0.2658	0.1500 *
Uranus	14535-03-24 00:28 G	7029941.46	7029941.52	7029941.60	0.0133	0.0117
Uranus	14535-06-20 04:33 G	7030029.60	7030029.69	7030029.80	0.0133	0.0099
Venus	14535-07-24 18:14 G	7030064.15	7030064.26	7030064.36	0.3682	0.2295
Uranus	14535-09-16 08:38 G	7030117.74	7030117.86	7030117.98	0.0133	0.0080
Uranus	14535-12-13 12:28 G	7030205.90	7030206.02	7030206.16	0.0133	0.0063
Uranus	14536-03-10 16:33 G	7030294.05	7030294.19	7030294.33	0.0133	0.0044
Uranus	14536-06-06 20:24 G	7030382.21	7030382.35	7030382.50	0.0133	0.0026
Uranus	14536-09-03 00:14 G	7030470.37	7030470.51	7030470.66	0.0134	0.0009
Uranus	14536-11-30 04:04 G	7030558.53	7030558.67	7030558.82	0.0134	0.0010
Uranus	14537-02-26 07:55 G	7030646.69	7030646.83	7030646.98	0.0134	0.0027
Mars	14537-04-01 22:19 G	7030681.30	7030681.43	7030681.56	0.1586	0.0758
Uranus	14537-05-25 11:45 G	7030734.85	7030734.99	7030735.13	0.0134	0.0045
Uranus	14537-08-21 15:21 G	7030823.02	7030823.14	7030823.28	0.0134	0.0063
Jupiter	14537-11-14 12:43 G	7030907.90	7030908.03	7030908.16	0.0540	0.0247
Uranus	14537-11-17 19:12 G	7030911.19	7030911.30	7030911.42	0.0134	0.0080
Jupiter	14538-02-12 05:45 G	7030997.68	7030997.74	7030997.81	0.0542	0.0477
Uranus	14538-02-13 23:02 G	7030999.36	7030999.46	7030999.56	0.0134	0.0097
Uranus	14538-05-13 02:52 G	7031087.54	7031087.62	7031087.69	0.0134	0.0114
Uranus	14538-08-09 06:28 G	7031175.75	7031175.77	7031175.80	0.0134	0.0131
Venus	14539-07-26 16:48 G	7031527.16	7031527.20	7031527.24	0.3689	0.3408
Mars	14541-12-24 06:28 G	7032408.75	7032408.77	7032408.79	0.1947	0.1912

Jupiter 14543-07-02 00:00 G 7032963.40 7032963.50 7032963.60 0.0489 0.0360

Jupiter 14543-09-29 14:38 G 7033052.97 7033053.11 7033053.25 0.0487 0.0211

Saturn 14545-02-02 17:16 G 7033545.17 7033545.22 7033545.28 0.0276 0.0256

Saturn 14545-05-02 08:24 G 7033633.72 7033633.85 7033633.98 0.0276 0.0148

Saturn 14545-07-29 23:16 G 7033722.32 7033722.47 7033722.62 0.0276 0.0043

Saturn 14545-10-26 13:40 G 7033810.92 7033811.07 7033811.21 0.0276 0.0061

Saturn 14546-01-23 03:36 G 7033899.53 7033899.65 7033899.77 0.0276 0.0162

Saturn 14546-04-21 17:16 G 7033988.18 7033988.22 7033988.27 0.0276 0.0261

Mars 14546-08-23 04:33 G 7034111.63 7034111.69 7034111.76 0.1586 0.1403

Mars 14548-07-29 05:16 G 7034817.64 7034817.72 7034817.79 0.1589 0.1375

Jupiter 14549-09-02 13:55 G 7035217.99 7035218.08 7035218.17 0.0539 0.0432

Jupiter 14549-12-01 07:26 G 7035307.69 7035307.81 7035307.93 0.0542 0.0302

Mars 14551-05-16 12:14 G 7035838.90 7035839.01 7035839.12 0.1949 0.0907

Neptune 14553-01-15 16:48 G 7036449.18 7036449.20 7036449.27 0.0089 0.0086

Neptune 14553-04-13 18:57 G 7036537.23 7036537.29 7036537.39 0.0089 0.0078

Neptune 14553-07-10 21:07 G 7036625.30 7036625.38 7036625.49 0.0089 0.0069

Neptune 14553-10-06 23:31 G 7036713.37 7036713.48 7036713.59 0.0089 0.0061

Neptune 14554-01-03 01:40 G 7036801.44 7036801.57 7036801.69 0.0089 0.0053

Neptune 14554-04-01 03:21 G 7036889.52 7036889.64 7036889.79 0.0089 0.0045

Moon 14554-04-02 05:16 G 7036890.63 7036890.72 7036890.81 0.2652 0.1676

Earth 14554-04-02 06:14 G 7036890.66 7036890.76 7036890.86 0.2650 0.1475 *

Neptune 14554-06-28 05:31 G 7036977.60 7036977.73 7036977.88 0.0089 0.0037

Neptune 14554-09-24 07:40 G 7037065.68 7037065.82 7037065.97 0.0089 0.0029

Neptune 14554-12-21 09:36 G 7037153.76 7037153.90 7037154.06 0.0089 0.0022

Neptune 14555-03-19 11:45 G 7037241.84 7037241.99 7037242.14 0.0089 0.0013

Neptune 14555-06-15 13:55 G 7037329.92 7037330.08 7037330.23 0.0089 0.0006

Jupiter 14555-07-18 16:33 G 7037363.03 7037363.19 7037363.34 0.0487 0.0070

Neptune 14555-09-11 15:50 G 7037418.01 7037418.16 7037418.31 0.0089 0.0003

Neptune 14555-12-08 17:45 G 7037506.09 7037506.24 7037506.40 0.0089 0.0010

Neptune 14556-03-05 19:40 G 7037594.18 7037594.32 7037594.47 0.0089 0.0018

Neptune 14556-06-01 21:50 G 7037682.26 7037682.41 7037682.55 0.0089 0.0026

Neptune 14556-08-28 23:45 G 7037770.35 7037770.49 7037770.63 0.0089 0.0033

Moon 14556-09-30 21:21 G 7037803.26 7037803.39 7037803.52 0.2688 0.0867

Earth 14556-09-30 22:04 G 7037803.29 7037803.42 7037803.55 0.2682 0.0703 *

Neptune 14556-11-25 01:26 G 7037858.44 7037858.56 7037858.71 0.0089 0.0042

Neptune 14557-02-21 03:36 G 7037946.53 7037946.65 7037946.78 0.0089 0.0049

Neptune 14557-05-20 05:16 G 7038034.62 7038034.72 7038034.85 0.0089 0.0057

Neptune 14557-08-16 07:12 G 7038122.71 7038122.80 7038122.92 0.0089 0.0064

Neptune 14557-11-12 09:21 G 7038210.81 7038210.89 7038210.98 0.0089 0.0072

Mars 14557-12-19 10:48 G 7038247.81 7038247.95 7038248.09 0.1588 0.0681

Neptune 14558-02-08 11:02 G 7038298.91 7038298.96 7038299.04 0.0089 0.0079

Neptune 14558-05-07 12:57 G 7038387.02 7038387.04 7038387.09 0.0089 0.0087

Saturn 14560-02-11 16:19 G 7039032.07 7039032.18 7039032.29 0.0283 0.0194

Saturn 14560-05-10 08:24 G 7039120.70 7039120.85 7039121.00 0.0283 0.0081

Saturn 14560-08-07 00:57 G 7039209.38 7039209.54 7039209.70 0.0283 0.0036

Mars 14560-10-05 18:00 G 7039269.12 7039269.25 7039269.37 0.1950 0.0128

Saturn 14560-11-03 17:45 G 7039298.11 7039298.24 7039298.38 0.0283 0.0155

Saturn 14561-01-31 11:02 G 7039386.94 7039386.96 7039387.00 0.0283 0.0277

Jupiter 14561-09-19 09:21 G 7039617.75 7039617.89 7039618.03 0.0541 0.0133

Pluto 14566-02-07 09:50 G 7041219.87 7041219.91 7041219.99 0.0071 0.0063

Pluto 14566-05-06 10:33 G 7041307.87 7041307.94 7041308.04 0.0071 0.0054

Pluto 14566-08-02 11:31 G 7041395.88 7041395.98 7041396.09 0.0071 0.0044

Pluto 14566-10-29 12:14 G 7041483.90 7041484.01 7041484.13 0.0071 0.0035

Pluto 14567-01-25 12:43 G 7041571.92 7041572.03 7041572.17 0.0071 0.0027

Moon 14567-04-05 02:09 G 7041641.47 7041641.59 7041641.71 0.2656 0.0181

Earth 14567-04-05 02:38 G 7041641.48 7041641.61 7041641.73 0.2650 0.0201 *

Pluto 14567-04-23 13:40 G 7041659.94 7041660.07 7041660.20 0.0071 0.0017

Jupiter 14567-05-06 18:28 G 7041673.12 7041673.27 7041673.43 0.0488 0.0072

Mars 14567-05-11 16:33 G 7041678.04 7041678.19 7041678.34 0.1587 0.0016

Pluto 14567-07-20 14:24 G 7041747.97 7041748.10 7041748.24 0.0071 0.0007

Pluto 14567-10-16 15:07 G 7041836.00 7041836.13 7041836.27 0.0072 0.0003

Pluto 14568-01-12 15:50 G 7041924.03 7041924.16 7041924.29 0.0072 0.0012

Pluto 14568-04-09 16:33 G 7042012.06 7042012.19 7042012.32 0.0072 0.0022

Venus 14568-06-17 19:26 G 7042081.24 7042081.31 7042081.38 0.3687 0.2926

Pluto 14568-07-06 17:16 G 7042100.10 7042100.22 7042100.34 0.0072 0.0031

Pluto 14568-10-02 18:00 G 7042188.14 7042188.25 7042188.36 0.0072 0.0041

Pluto 14568-12-29 18:28 G 7042276.19 7042276.27 7042276.38 0.0072 0.0052

Pluto 14569-03-27 19:12 G 7042364.24 7042364.30 7042364.38 0.0072 0.0061

Pluto 14569-06-23 19:55 G 7042452.32 7042452.33 7042452.37 0.0072 0.0071

Earth 14569-10-03 22:04 G 7042554.30 7042554.42 7042554.53 0.2681 0.1427

Moon 14569-10-03 22:04 G 7042554.31 7042554.42 7042554.53 0.2687 0.1470 *

Mars 14570-02-25 23:02 G 7042699.36 7042699.46 7042699.56 0.1950 0.1199

Jupiter 14573-07-08 11:16 G 7043927.83 7043927.97 7043928.12 0.0541 0.0041

Venus 14574-01-01 14:09 G 7044104.98 7044105.09 7044105.19 0.3687 0.1494

Saturn 14574-09-19 07:55 G 7044365.72 7044365.83 7044365.94 0.0276 0.0192

Saturn 14574-12-16 22:48 G 7044454.31 7044454.45 7044454.60 0.0276 0.0085

Saturn 14575-03-15 13:26 G 7044542.91 7044543.06 7044543.21 0.0276 0.0020

Saturn 14575-06-12 03:36 G 7044631.52 7044631.65 7044631.78 0.0276 0.0121

Venus 14575-07-15 18:57 G 7044665.22 7044665.29 7044665.35 0.3684 0.3086

Saturn 14575-09-08 17:31 G 7044720.14 7044720.23 7044720.32 0.0276 0.0221

Uranus 14576-07-01 12:28 G 7045016.96 7045017.02 7045017.08 0.0145 0.0134

Uranus 14576-09-27 18:28 G 7045105.17 7045105.27 7045105.38 0.0145 0.0109

Mars 14576-09-30 22:33 G 7045108.31 7045108.44 7045108.58 0.1586 0.0668

Uranus 14576-12-25 00:28 G 7045193.40 7045193.52 7045193.66 0.0145 0.0084

Uranus 14577-03-23 06:43 G 7045281.63 7045281.78 7045281.94 0.0145 0.0059

Uranus 14577-06-19 12:57 G 7045369.88 7045370.04 7045370.21 0.0145 0.0033

Uranus 14577-09-15 19:26 G 7045458.14 7045458.31 7045458.47 0.0145 0.0007

Uranus 14577-12-13 01:40 G 7045546.40 7045546.57 7045546.74 0.0145 0.0019

Uranus 14578-03-11 07:55 G 7045634.67 7045634.83 7045635.00 0.0145 0.0046

Uranus 14578-06-07 14:24 G 7045722.96 7045723.10 7045723.25 0.0145 0.0072

Uranus 14578-09-03 20:38 G 7045811.25 7045811.36 7045811.50 0.0145 0.0099

Uranus 14578-12-01 03:21 G 7045899.56 7045899.64 7045899.73 0.0145 0.0125

Jupiter 14579-02-22 20:24 G 7045983.21 7045983.35 7045983.48 0.0488 0.0217

Jupiter 14579-05-23 11:02 G 7046072.86 7046072.96 7046073.07 0.0487 0.0360

Venus 14579-07-18 08:38 G 7046128.75 7046128.86 7046128.98 0.3688 0.0130

Earth 14580-04-06 22:48 G 7046392.36 7046392.45 7046392.54 0.2651 0.1817

Moon 14580-04-06 22:48 G 7046392.37 7046392.45 7046392.54 0.2658 0.1833 *

Venus 14581-01-28 18:00 G 7046689.13 7046689.25 7046689.38 0.3683 0.1185

Venus 14585-01-31 02:52 G 7048152.52 7048152.62 7048152.73 0.3688 0.1245

Jupiter 14585-04-26 12:28 G 7048237.89 7048238.02 7048238.16 0.0540 0.0221

Jupiter 14585-07-25 05:31 G 7048327.69 7048327.73 7048327.79 0.0542 0.0504

Mars 14586-02-21 05:02 G 7048538.63 7048538.71 7048538.79 0.1586 0.1314

Venus 14586-08-14 17:45 G 7048713.11 7048713.24 7048713.37 0.3682 0.0822

Mars 14588-01-28 05:31 G 7049244.68 7049244.73 7049244.79 0.1589 0.1470

Saturn 14589-06-30 16:33 G 7049764.11 7049764.19 7049764.28 0.0283 0.0231

Saturn 14589-09-27 08:38 G 7049852.72 7049852.86 7049853.01 0.0283 0.0118

Moon 14589-09-29 02:52 G 7049854.58 7049854.62 7049854.65 0.2684 0.2562

Earth 14589-09-29 03:50 G 7049854.60 7049854.66 7049854.72 0.2683 0.2346 *

Saturn 14589-12-25 01:12 G 7049941.39 7049941.55 7049941.71 0.0283 0.0003

Saturn 14590-03-23 18:00 G 7050030.10 7050030.25 7050030.39 0.0283 0.0116

Saturn 14590-06-20 11:02 G 7050118.88 7050118.96 7050119.05 0.0283 0.0237

Venus 14590-08-16 21:07 G 7050176.30 7050176.38 7050176.46 0.3689 0.2541

Mars 14590-11-14 12:28 G 7050265.92 7050266.02 7050266.13 0.1949 0.1017

Jupiter 14590-12-11 22:33 G 7050293.34 7050293.44 7050293.55 0.0489 0.0353

Jupiter 14591-03-11 12:57 G 7050382.91 7050383.04 7050383.19 0.0487 0.0219

Venus 14592-02-28 18:00 G 7050737.17 7050737.25 7050737.33 0.3682 0.2946

Jupiter 14597-02-12 12:28 G 7052547.93 7052548.02 7052548.11 0.0539 0.0424

Jupiter 14597-05-13 06:14 G 7052637.64 7052637.76 7052637.87 0.0541 0.0309

Mars 14597-06-19 11:16 G 7052674.84 7052674.97 7052675.10 0.1588 0.0778

Moon 14600-04-03 10:33 G 7053692.83 7053692.94 7053693.05 0.2652 0.1173

Earth 14600-04-03 11:16 G 7053692.86 7053692.97 7053693.09 0.2650 0.1129 *

Mars 14600-04-06 18:00 G 7053696.13 7053696.25 7053696.38 0.1949 0.0048

Jupiter 14602-10-01 00:57 G 7054603.54 7054603.54 7054603.56 0.0490 0.0487

Moon 14602-10-03 02:52 G 7054605.49 7054605.62 7054605.76 0.2688 0.0287

Earth 14602-10-03 03:36 G 7054605.52 7054605.65 7054605.78 0.2682 0.0278 *

Jupiter 14602-12-29 15:21 G 7054692.98 7054693.14 7054693.29 0.0488 0.0080

Saturn 14604-02-07 10:19 G 7055097.84 7055097.93 7055098.04 0.0276 0.0215

Saturn 14604-05-06 01:26 G 7055186.42 7055186.56 7055186.70 0.0276 0.0107

Saturn 14604-08-02 16:04 G 7055275.02 7055275.17 7055275.32 0.0276 0.0004

Saturn 14604-10-30 06:28 G 7055363.63 7055363.77 7055363.91 0.0276 0.0101

Saturn 14605-01-26 20:24 G 7055452.25 7055452.35 7055452.45 0.0276 0.0201

Mars 14606-11-10 17:02 G 7056105.06 7056105.21 7056105.36 0.1587 0.0098

Jupiter 14609-03-02 07:40 G 7056947.68 7056947.82 7056947.96 0.0541 0.0131

Mars 14609-08-27 23:16 G 7057126.37 7057126.47 7057126.58 0.1950 0.1083

Moon 14613-04-06 07:26 G 7058443.69 7058443.81 7058443.93 0.2657 0.0454

Earth 14613-04-06 07:40 G 7058443.70 7058443.82 7058443.94 0.2651 0.0550 *

Jupiter 14614-10-17 17:16 G 7059003.07 7059003.22 7059003.38 0.0488 0.0062

Earth 14615-10-06 03:36 G 7059356.56 7059356.65 7059356.75 0.2681 0.1868

Moon 14615-10-06 04:04 G 7059356.57 7059356.67 7059356.76 0.2687 0.1853 *

Mars 14616-04-01 23:02 G 7059535.32 7059535.46 7059535.60 0.1586 0.0569

Saturn 14618-11-18 17:02 G 7060496.17 7060496.21 7060496.26 0.0283 0.0267

Uranus 14619-01-16 03:50 G 7060554.64 7060554.66 7060554.70 0.0133 0.0130

Saturn 14619-02-15 08:52 G 7060584.75 7060584.87 7060585.00 0.0283 0.0156

Uranus 14619-04-14 07:55 G 7060642.76 7060642.83 7060642.92 0.0133 0.0111

Saturn 14619-05-15 01:12 G 7060673.39 7060673.55 7060673.70 0.0283 0.0042

Uranus 14619-07-11 11:45 G 7060730.90 7060730.99 7060731.11 0.0133 0.0094

Saturn 14619-08-11 17:45 G 7060762.09 7060762.24 7060762.39 0.0283 0.0076

Uranus 14619-10-07 16:04 G 7060819.05 7060819.17 7060819.29 0.0133 0.0075

Saturn 14619-11-08 10:48 G 7060850.84 7060850.95 7060851.06 0.0283 0.0195

Uranus 14620-01-03 19:55 G 7060907.20 7060907.33 7060907.47 0.0133 0.0057

Uranus 14620-04-01 00:00 G 7060995.36 7060995.50 7060995.64 0.0133 0.0039

Uranus 14620-06-28 03:50 G 7061083.52 7061083.66 7061083.81 0.0133 0.0021

Uranus 14620-09-24 07:40 G 7061171.68 7061171.82 7061171.97 0.0134 0.0003

Jupiter 14620-12-19 09:21 G 7061257.74 7061257.89 7061258.04 0.0541 0.0042

Uranus 14620-12-21 11:31 G 7061259.84 7061259.98 7061260.13 0.0134 0.0015

Uranus 14621-03-19 15:21 G 7061348.00 7061348.14 7061348.28 0.0134 0.0033

Uranus 14621-06-15 19:12 G 7061436.17 7061436.30 7061436.44 0.0134 0.0050

Uranus 14621-09-11 22:48 G 7061524.33 7061524.45 7061524.58 0.0134 0.0068

Uranus 14621-12-09 02:38 G 7061612.50 7061612.61 7061612.73 0.0134 0.0085

Uranus 14622-03-07 06:14 G 7061700.68 7061700.76 7061700.86 0.0134 0.0103

Uranus 14622-06-03 10:04 G 7061788.86 7061788.92 7061788.99 0.0134 0.0120

Venus 14625-01-23 17:45 G 7062754.15 7062754.24 7062754.32 0.3687 0.2488

Mars 14625-08-23 05:16 G 7062965.63 7062965.72 7062965.82 0.1586 0.1223

Earth 14626-04-09 03:50 G 7063194.59 7063194.66 7063194.73 0.2651 0.2157

Moon 14626-04-09 04:04 G 7063194.61 7063194.67 7063194.74 0.2658 0.2234 *

Jupiter 14626-08-05 19:26 G 7063313.17 7063313.31 7063313.46 0.0488 0.0200

Jupiter 14626-11-03 10:19 G 7063402.84 7063402.93 7063403.03 0.0486 0.0376

Mars 14627-07-30 06:00 G 7063671.74 7063671.75 7063671.77 0.1588 0.1575

Mars 14630-05-16 12:43 G 7064692.93 7064693.03 7064693.13 0.1948 0.1115

Venus 14630-08-09 12:28 G 7064777.91 7064778.02 7064778.13 0.3688 0.1060

Venus 14632-02-20 18:28 G 7065338.17 7065338.27 7065338.36 0.3683 0.2515

Jupiter 14632-10-07 11:16 G 7065567.83 7065567.97 7065568.10 0.0540 0.0215

Jupiter 14633-01-05 04:19 G 7065657.63 7065657.68 7065657.72 0.0542 0.0511

Moon 14633-04-01 19:12 G 7065744.27 7065744.30 7065744.32 0.2649 0.2561

Earth 14633-04-01 20:09 G 7065744.29 7065744.34 7065744.38 0.2649 0.2469 *

Saturn 14633-06-26 09:50 G 7065829.86 7065829.91 7065829.96 0.0276 0.0259

Saturn 14633-09-23 00:57 G 7065918.41 7065918.54 7065918.67 0.0276 0.0151

Saturn 14633-12-20 15:36 G 7066007.00 7066007.15 7066007.30 0.0276 0.0045

Saturn 14634-03-19 06:00 G 7066095.61 7066095.75 7066095.90 0.0276 0.0059

Saturn 14634-06-15 20:09 G 7066184.22 7066184.34 7066184.46 0.0276 0.0160

Saturn 14634-09-12 09:50 G 7066272.87 7066272.91 7066272.97 0.0275 0.0259

Neptune 14634-10-12 17:31 G 7066303.21 7066303.23 7066303.29 0.0088 0.0086

Neptune 14635-01-08 19:55 G 7066391.26 7066391.33 7066391.41 0.0088 0.0077

Neptune 14635-04-06 21:50 G 7066479.33 7066479.41 7066479.52 0.0088 0.0070

Neptune 14635-07-04 00:14 G 7066567.41 7066567.51 7066567.63 0.0088 0.0062

Neptune 14635-09-30 02:38 G 7066655.49 7066655.61 7066655.74 0.0088 0.0054

Moon 14635-10-01 08:24 G 7066656.77 7066656.85 7066656.94 0.2686 0.2006

Earth 14635-10-01 09:21 G 7066656.80 7066656.89 7066656.98 0.2682 0.1937 *

Neptune 14635-12-27 04:48 G 7066743.57 7066743.70 7066743.84 0.0088 0.0047

Venus 14636-02-23 06:57 G 7066801.67 7066801.79 7066801.90 0.3688 0.0327

Neptune 14636-03-24 06:57 G 7066831.65 7066831.79 7066831.94 0.0088 0.0039

Neptune 14636-06-20 09:07 G 7066919.74 7066919.88 7066920.04 0.0088 0.0031

Neptune 14636-09-16 11:31 G 7067007.83 7067007.98 7067008.14 0.0088 0.0023

Neptune 14636-12-13 13:40 G 7067095.92 7067096.07 7067096.23 0.0088 0.0015

Mars 14636-12-19 11:31 G 7067101.86 7067101.98 7067102.11 0.1588 0.0871

Neptune 14637-03-11 16:04 G 7067184.01 7067184.17 7067184.33 0.0088 0.0007

Neptune 14637-06-07 18:14 G 7067272.10 7067272.26 7067272.43 0.0088 0.0002

Neptune 14637-09-03 20:38 G 7067360.20 7067360.36 7067360.52 0.0088 0.0009

Venus 14637-09-05 17:45 G 7067362.11 7067362.24 7067362.37 0.3683 0.0594

Neptune 14637-11-30 22:48 G 7067448.29 7067448.45 7067448.61 0.0088 0.0017

Neptune 14638-02-27 00:57 G 7067536.39 7067536.54 7067536.71 0.0088 0.0025

Jupiter 14638-05-24 21:21 G 7067623.28 7067623.39 7067623.50 0.0489 0.0343

Neptune 14638-05-26 03:21 G 7067624.49 7067624.64 7067624.80 0.0088 0.0033

Neptune 14638-08-22 05:45 G 7067712.60 7067712.74 7067712.89 0.0088 0.0041

Jupiter 14638-08-22 11:45 G 7067712.86 7067712.99 7067713.13 0.0487 0.0228 *

Neptune 14638-11-18 08:09 G 7067800.71 7067800.84 7067800.98 0.0088 0.0049

Neptune 14639-02-14 10:33 G 7067888.82 7067888.94 7067889.06 0.0088 0.0057

Neptune 14639-05-13 12:28 G 7067976.93 7067977.02 7067977.15 0.0088 0.0066

Neptune 14639-08-09 14:52 G 7068065.05 7068065.12 7068065.22 0.0088 0.0074

Mars 14639-10-06 18:14 G 7068123.13 7068123.26 7068123.38 0.1950 0.0089

Neptune	14639-11-05 17:16 G	7068153.18	7068153.22	7068153.29	0.0088	0.0082
Venus	14641-09-08 01:12 G	7068825.45	7068825.55	7068825.65	0.3689	0.1652
Venus	14643-03-22 17:31 G	7069386.11	7069386.23	7069386.35	0.3682	0.1459
Jupiter	14644-07-26 12:14 G	7069877.92	7069878.01	7069878.11	0.0539	0.0397
Jupiter	14644-10-24 06:00 G	7069967.64	7069967.75	7069967.86	0.0542	0.0336
Moon	14646-04-04 15:50 G	7070495.05	7070495.16	7070495.27	0.2653	0.0941
Earth	14646-04-04 16:33 G	7070495.07	7070495.19	7070495.31	0.2650	0.0769 *
Mars	14646-05-11 17:31 G	7070532.08	7070532.23	7070532.38	0.1587	0.0194
Venus	14647-03-24 19:12 G	7070849.23	7070849.30	7070849.36	0.3689	0.2934
Saturn	14648-07-04 08:52 G	7071316.76	7071316.87	7071316.98	0.0283	0.0196
Saturn	14648-10-01 00:57 G	7071405.39	7071405.54	7071405.69	0.0283	0.0082
Moon	14648-10-03 08:38 G	7071407.73	7071407.86	7071408.00	0.2687	0.0077
Earth	14648-10-03 09:07 G	7071407.75	7071407.88	7071408.02	0.2681	0.0175 *
Venus	14648-10-05 18:00 G	7071410.22	7071410.25	7071410.27	0.3682	0.3613
Saturn	14648-12-28 17:31 G	7071494.07	7071494.23	7071494.39	0.0283	0.0034
Mars	14649-02-25 23:45 G	7071553.38	7071553.49	7071553.59	0.1950	0.0972
Saturn	14649-03-27 10:19 G	7071582.80	7071582.93	7071583.07	0.0283	0.0153
Saturn	14649-06-24 03:36 G	7071671.62	7071671.65	7071671.69	0.0283	0.0275
Jupiter	14650-03-12 23:45 G	7071933.46	7071933.49	7071933.52	0.0490	0.0478
Jupiter	14650-06-10 13:55 G	7072022.93	7072023.08	7072023.23	0.0488	0.0087
Pluto	14651-07-03 15:36 G	7072411.11	7072411.15	7072411.22	0.0074	0.0070
Pluto	14651-09-29 17:45 G	7072499.14	7072499.24	7072499.39	0.0073	0.0056
Pluto	14651-12-26 20:24 G	7072587.20	7072587.35	7072587.52	0.0073	0.0040
Pluto	14652-03-23 23:02 G	7072675.28	7072675.46	7072675.64	0.0073	0.0025
Pluto	14652-06-20 01:12 G	7072763.37	7072763.55	7072763.75	0.0073	0.0011
Pluto	14652-09-16 03:36 G	7072851.46	7072851.65	7072851.84	0.0073	0.0004
Pluto	14652-12-13 05:45 G	7072939.56	7072939.74	7072939.93	0.0073	0.0018
Pluto	14653-03-11 08:09 G	7073027.67	7073027.84	7073028.02	0.0073	0.0032
Pluto	14653-06-07 10:04 G	7073115.79	7073115.92	7073116.09	0.0073	0.0047
Pluto	14653-09-03 12:14 G	7073203.93	7073204.01	7073204.14	0.0072	0.0061

Mars 14655-10-01 23:31 G 7073962.34 7073962.48 7073962.62 0.1586 0.0475

Jupiter 14656-08-12 06:14 G 7074277.62 7074277.76 7074277.90 0.0541 0.0140

Moon 14659-04-07 12:43 G 7075245.92 7075246.03 7075246.14 0.2658 0.0933

Earth 14659-04-07 12:57 G 7075245.92 7075246.04 7075246.15 0.2651 0.0883 *

Uranus 14660-07-22 19:55 G 7075718.26 7075718.33 7075718.42 0.0145 0.0127

Uranus 14660-10-19 01:55 G 7075806.47 7075806.58 7075806.71 0.0145 0.0102

Uranus 14661-01-15 08:09 G 7075894.71 7075894.84 7075894.99 0.0145 0.0077

Uranus 14661-04-13 14:24 G 7075982.95 7075983.10 7075983.26 0.0145 0.0051

Uranus 14661-07-10 20:38 G 7076071.20 7076071.36 7076071.53 0.0145 0.0025

Earth 14661-10-06 09:21 G 7076158.82 7076158.89 7076158.96 0.2680 0.2301

Moon 14661-10-06 09:50 G 7076158.86 7076158.91 7076158.96 0.2687 0.2460 *

Uranus 14661-10-07 02:52 G 7076159.45 7076159.62 7076159.79 0.0145 0.0002

Uranus 14662-01-03 09:07 G 7076247.72 7076247.88 7076248.05 0.0145 0.0027

Jupiter 14662-03-29 16:04 G 7076333.02 7076333.17 7076333.33 0.0488 0.0052

Uranus 14662-04-01 15:36 G 7076335.99 7076336.15 7076336.31 0.0145 0.0053

Uranus 14662-06-28 21:50 G 7076424.28 7076424.41 7076424.56 0.0145 0.0080

Uranus 14662-09-25 04:33 G 7076512.57 7076512.69 7076512.80 0.0145 0.0106

Uranus 14662-12-22 10:48 G 7076600.90 7076600.95 7076601.03 0.0145 0.0133

Saturn 14663-02-10 03:21 G 7076650.52 7076650.64 7076650.76 0.0276 0.0174

Saturn 14663-05-09 18:14 G 7076739.11 7076739.26 7076739.41 0.0276 0.0068

Saturn 14663-08-06 08:52 G 7076827.72 7076827.87 7076828.02 0.0276 0.0037

Saturn 14663-11-02 22:48 G 7076916.33 7076916.45 7076916.59 0.0276 0.0139

Saturn 14664-01-30 12:57 G 7077004.97 7077005.04 7077005.11 0.0276 0.0238

Mars 14665-02-21 05:45 G 7077392.64 7077392.74 7077392.84 0.1586 0.1128

Jupiter 14668-05-31 07:40 G 7078587.67 7078587.82 7078587.96 0.0540 0.0044

Mars 14669-11-14 12:43 G 7079119.94 7079120.03 7079120.13 0.1949 0.1216

Earth 14672-04-09 09:07 G 7079996.84 7079996.88 7079996.92 0.2652 0.2496

Moon 14672-04-09 09:36 G 7079996.86 7079996.90 7079996.93 0.2657 0.2511 *

Jupiter 14674-01-15 18:14 G 7080643.12 7080643.26 7080643.41 0.0488 0.0190

Jupiter 14674-04-15 09:07 G 7080732.79 7080732.88 7080732.98 0.0487 0.0387

Venus 14676-02-14 21:07 G 7081403.35 7081403.38 7081403.41 0.3687 0.3506

Mars 14676-06-19 12:00 G 7081528.89 7081529.00 7081529.12 0.1587 0.0977

Saturn 14677-11-21 09:21 G 7082048.81 7082048.89 7082048.99 0.0282 0.0231

Saturn 14678-02-18 01:26 G 7082137.42 7082137.56 7082137.70 0.0283 0.0118

Saturn 14678-05-17 17:45 G 7082226.08 7082226.24 7082226.40 0.0283 0.0004

Saturn 14678-08-14 10:19 G 7082314.79 7082314.93 7082315.08 0.0283 0.0115

Saturn 14678-11-11 03:36 G 7082403.56 7082403.65 7082403.74 0.0283 0.0235

Moon 14679-04-03 00:14 G 7082546.45 7082546.51 7082546.57 0.2649 0.2268

Earth 14679-04-03 01:12 G 7082546.48 7082546.55 7082546.63 0.2649 0.2109 *

Mars 14679-04-06 18:28 G 7082550.14 7082550.27 7082550.39 0.1950 0.0195

Jupiter 14680-03-19 09:07 G 7082897.75 7082897.88 7082898.02 0.0540 0.0218

Jupiter 14680-06-17 02:24 G 7082987.55 7082987.60 7082987.65 0.0542 0.0507

Venus 14681-08-30 16:04 G 7083427.07 7083427.17 7083427.26 0.3687 0.2044

Moon 14681-10-01 14:09 G 7083458.98 7083459.09 7083459.19 0.2687 0.1692

Earth 14681-10-01 15:07 G 7083459.02 7083459.13 7083459.23 0.2682 0.1525 *

Jupiter 14685-11-03 20:38 G 7084953.25 7084953.36 7084953.48 0.0489 0.0326

Mars 14685-11-09 17:45 G 7084959.10 7084959.24 7084959.39 0.1587 0.0291

Jupiter 14686-02-01 11:02 G 7085042.83 7085042.96 7085043.10 0.0487 0.0245

Venus 14687-03-16 10:48 G 7085450.83 7085450.95 7085451.06 0.3688 0.0640

Mars 14688-08-26 23:45 G 7085980.38 7085980.49 7085980.60 0.1950 0.0873

Venus 14688-09-26 17:45 G 7086011.14 7086011.24 7086011.35 0.3683 0.1941

Jupiter 14692-01-06 10:48 G 7087207.85 7087207.95 7087208.05 0.0540 0.0391

Moon 14692-04-04 21:07 G 7087297.26 7087297.38 7087297.50 0.2654 0.0456

Earth 14692-04-04 21:50 G 7087297.29 7087297.41 7087297.53 0.2650 0.0417 *

Jupiter 14692-04-05 04:33 G 7087297.58 7087297.69 7087297.80 0.0542 0.0342

Saturn 14692-06-29 02:38 G 7087382.52 7087382.61 7087382.71 0.0276 0.0219

Saturn 14692-09-25 17:45 G 7087471.10 7087471.24 7087471.38 0.0276 0.0111

Venus 14692-09-29 05:02 G 7087474.60 7087474.71 7087474.82 0.3688 0.0740

Saturn 14692-12-23 08:24 G 7087559.70 7087559.85 7087560.00 0.0276 0.0007

Saturn 14693-03-21 22:48 G 7087648.31 7087648.45 7087648.59 0.0276 0.0097

Saturn 14693-06-18 12:43 G 7087736.93 7087737.03 7087737.14 0.0276 0.0197

Venus 14694-04-12 17:16 G 7088035.09 7088035.22 7088035.35 0.3682 0.0038

Moon 14694-10-04 14:38 G 7088209.98 7088210.11 7088210.24 0.2688 0.0611

Earth 14694-10-04 14:52 G 7088209.99 7088210.12 7088210.25 0.2681 0.0571 *

Mars 14695-04-01 23:45 G 7088389.35 7088389.49 7088389.64 0.1586 0.0385

Jupiter 14697-08-22 22:48 G 7089263.41 7089263.45 7089263.49 0.0489 0.0468

Jupiter 14697-11-20 12:43 G 7089352.88 7089353.03 7089353.19 0.0487 0.0098

Venus 14698-04-14 23:16 G 7089498.38 7089498.47 7089498.56 0.3689 0.2054

Venus 14699-10-27 17:16 G 7090059.11 7090059.22 7090059.33 0.3682 0.2103

Uranus 14703-02-06 11:02 G 7091255.92 7091255.96 7091256.03 0.0133 0.0124

Uranus 14703-05-05 15:21 G 7091344.05 7091344.14 7091344.23 0.0133 0.0106

Uranus 14703-08-01 19:12 G 7091432.20 7091432.30 7091432.42 0.0133 0.0088

Uranus 14703-10-28 23:16 G 7091520.35 7091520.47 7091520.60 0.0133 0.0069

Venus 14703-10-30 17:16 G 7091522.17 7091522.22 7091522.26 0.3689 0.3327

Jupiter 14704-01-24 06:14 G 7091607.62 7091607.76 7091607.89 0.0541 0.0167

Uranus 14704-01-25 03:21 G 7091608.50 7091608.64 7091608.78 0.0133 0.0051

Uranus 14704-04-22 07:12 G 7091696.66 7091696.80 7091696.95 0.0133 0.0033

Uranus 14704-07-19 11:16 G 7091784.82 7091784.97 7091785.11 0.0133 0.0015

Mars 14704-08-23 06:00 G 7091819.64 7091819.75 7091819.87 0.1586 0.1038

Uranus 14704-10-15 15:07 G 7091872.98 7091873.13 7091873.28 0.0133 0.0003

Uranus 14705-01-11 18:57 G 7091961.14 7091961.29 7091961.43 0.0133 0.0020

Moon 14705-04-08 18:00 G 7092048.14 7092048.25 7092048.36 0.2658 0.1149

Earth 14705-04-08 18:14 G 7092048.15 7092048.26 7092048.36 0.2651 0.1236 *

Uranus 14705-04-09 22:48 G 7092049.31 7092049.45 7092049.59 0.0134 0.0038

Uranus 14705-07-07 02:24 G 7092137.47 7092137.60 7092137.74 0.0134 0.0056

Uranus 14705-10-03 06:14 G 7092225.64 7092225.76 7092225.88 0.0134 0.0073

Uranus 14705-12-30 09:50 G 7092313.81 7092313.91 7092314.03 0.0134 0.0091

Uranus 14706-03-28 13:40 G 7092401.99 7092402.07 7092402.16 0.0134 0.0108

Uranus 14706-06-24 17:16 G 7092490.18 7092490.22 7092490.28 0.0134 0.0125

Saturn 14707-04-11 09:07 G 7092780.84 7092780.88 7092780.92 0.0283 0.0272

Saturn 14707-07-09 00:57 G 7092869.42 7092869.54 7092869.67 0.0283 0.0161

Saturn 14707-10-05 17:16 G 7092958.06 7092958.22 7092958.37 0.0283 0.0047

Saturn 14708-01-02 09:50 G 7093046.75 7093046.91 7093047.06 0.0283 0.0070

Saturn 14708-03-31 02:38 G 7093135.50 7093135.61 7093135.73 0.0283 0.0190

Mars 14709-05-16 12:57 G 7093546.95 7093547.04 7093547.13 0.1949 0.1331

Jupiter 14709-09-09 14:52 G 7093662.97 7093663.12 7093663.28 0.0488 0.0042

Jupiter 14715-11-12 06:28 G 7095917.62 7095917.77 7095917.92 0.0540 0.0031

Mars 14715-12-20 12:28 G 7095955.91 7095956.02 7095956.13 0.1588 0.1074

Neptune 14717-10-14 16:04 G 7096620.12 7096620.17 7096620.23 0.0089 0.0083

Neptune 14718-01-10 18:14 G 7096708.18 7096708.26 7096708.35 0.0089 0.0075

Neptune 14718-04-08 20:24 G 7096796.25 7096796.35 7096796.46 0.0089 0.0067

Neptune 14718-07-05 22:19 G 7096884.32 7096884.43 7096884.56 0.0089 0.0059

Neptune 14718-10-02 00:28 G 7096972.40 7096972.52 7096972.65 0.0089 0.0051

Mars 14718-10-06 18:43 G 7096977.15 7096977.28 7096977.40 0.1949 0.0304

Neptune 14718-12-29 02:38 G 7097060.48 7097060.61 7097060.75 0.0089 0.0042

Neptune 14719-03-27 04:48 G 7097148.56 7097148.70 7097148.84 0.0089 0.0034

Neptune 14719-06-23 06:43 G 7097236.64 7097236.78 7097236.93 0.0089 0.0027

Neptune 14719-09-19 08:52 G 7097324.72 7097324.87 7097325.02 0.0089 0.0019

Neptune 14719-12-16 10:48 G 7097412.80 7097412.95 7097413.11 0.0089 0.0011

Neptune 14720-03-13 12:57 G 7097500.89 7097501.04 7097501.19 0.0089 0.0003

Neptune 14720-06-09 14:52 G 7097588.97 7097589.12 7097589.27 0.0089 0.0005

Neptune 14720-09-05 16:48 G 7097677.05 7097677.20 7097677.36 0.0089 0.0013

Neptune 14720-12-02 18:57 G 7097765.14 7097765.29 7097765.44 0.0089 0.0020

Neptune 14721-02-28 20:52 G 7097853.23 7097853.37 7097853.52 0.0089 0.0028

Neptune 14721-05-27 22:33 G 7097941.31 7097941.44 7097941.59 0.0089 0.0037

Jupiter 14721-06-28 17:02 G 7097973.07 7097973.21 7097973.36 0.0489 0.0181

Neptune 14721-08-24 00:43 G 7098029.40 7098029.53 7098029.67 0.0089 0.0044

Jupiter 14721-09-26 08:09 G 7098062.75 7098062.84 7098062.93 0.0487 0.0398

Saturn 14721-11-17 04:48 G 7098114.64 7098114.70 7098114.78 0.0277 0.0244

Neptune 14721-11-20 02:38 G 7098117.49 7098117.61 7098117.74 0.0089 0.0051

Saturn 14722-02-13 20:09 G 7098203.21 7098203.34 7098203.47 0.0276 0.0135

Neptune 14722-02-16 04:19 G 7098205.58 7098205.68 7098205.81 0.0089 0.0060

Saturn 14722-05-13 10:48 G 7098291.80 7098291.95 7098292.11 0.0276 0.0031

Neptune 14722-05-15 06:28 G 7098293.68 7098293.77 7098293.88 0.0089 0.0067

Saturn 14722-08-10 01:26 G 7098380.41 7098380.56 7098380.70 0.0276 0.0075

Neptune 14722-08-11 08:09 G 7098381.77 7098381.84 7098381.94 0.0089 0.0075

Saturn 14722-11-06 15:21 G 7098469.03 7098469.14 7098469.26 0.0276 0.0176

Neptune 14722-11-07 10:19 G 7098469.88 7098469.93 7098470.00 0.0089 0.0082

Saturn 14723-02-03 05:16 G 7098557.71 7098557.72 7098557.73 0.0276 0.0274

Neptune 14723-02-03 12:14 G 7098558.01 7098558.01 7098558.03 0.0089 0.0089

Moon 14725-04-04 05:31 G 7099348.65 7099348.73 7099348.82 0.2649 0.1869

Earth 14725-04-04 06:28 G 7099348.68 7099348.77 7099348.86 0.2649 0.1751 *

Mars 14725-05-11 18:14 G 7099386.12 7099386.26 7099386.41 0.1587 0.0388

Jupiter 14727-08-31 07:26 G 7100227.68 7100227.81 7100227.95 0.0540 0.0217

Moon 14727-10-03 19:40 G 7100261.20 7100261.32 7100261.44 0.2687 0.1193

Earth 14727-10-03 20:38 G 7100261.24 7100261.36 7100261.48 0.2682 0.1097 *

Jupiter 14727-11-29 00:43 G 7100317.48 7100317.53 7100317.58 0.0542 0.0508

Mars 14728-02-27 00:00 G 7100407.38 7100407.50 7100407.61 0.1950 0.0765

Venus 14732-09-21 19:26 G 7102076.25 7102076.31 7102076.38 0.3687 0.3052

Jupiter 14733-04-16 19:26 G 7102283.19 7102283.31 7102283.43 0.0489 0.0317

Jupiter 14733-07-15 09:50 G 7102372.78 7102372.91 7102373.05 0.0487 0.0254

Mars 14734-10-02 00:14 G 7102816.36 7102816.51 7102816.66 0.1586 0.0286

Saturn 14736-11-25 01:55 G 7103601.48 7103601.58 7103601.70 0.0282 0.0193

Saturn 14737-02-21 18:00 G 7103690.11 7103690.25 7103690.41 0.0282 0.0081

Saturn 14737-05-21 10:33 G 7103778.78 7103778.94 7103779.10 0.0283 0.0035

Mars 14737-07-19 05:02 G 7103837.68 7103837.71 7103837.75 0.1950 0.1844

Saturn 14737-08-18 03:21 G 7103867.51 7103867.64 7103867.77 0.0283 0.0154

Saturn 14737-11-14 20:24 G 7103956.32 7103956.35 7103956.39 0.0283 0.0275

Moon 14738-04-07 02:24 G 7104099.48 7104099.60 7104099.73 0.2656 0.0195

Earth 14738-04-07 03:07 G 7104099.50 7104099.63 7104099.75 0.2650 0.0102 *

Venus 14738-04-07 14:24 G 7104100.00 7104100.10 7104100.20 0.3687 0.1599

Jupiter 14739-06-19 08:52 G 7104537.77 7104537.87 7104537.97 0.0539 0.0395

Jupiter 14739-09-17 02:38 G 7104627.50 7104627.61 7104627.72 0.0542 0.0339

Venus 14739-10-19 18:28 G 7104660.21 7104660.27 7104660.32 0.3683 0.3231

Moon 14740-10-05 20:24 G 7105012.23 7105012.35 7105012.48 0.2688 0.0956

Earth 14740-10-05 20:24 G 7105012.23 7105012.35 7105012.48 0.2681 0.1003 *

Venus 14743-10-22 08:52 G 7106123.76 7106123.87 7106123.99 0.3688 0.0233

Mars 14744-02-22 06:28 G 7106246.65 7106246.77 7106246.89 0.1586 0.0947

Uranus 14744-05-16 21:36 G 7106331.39 7106331.40 7106331.41 0.0145 0.0145

Uranus 14744-08-13 03:21 G 7106419.56 7106419.64 7106419.74 0.0145 0.0120

Uranus 14744-11-09 09:21 G 7106507.78 7106507.89 7106508.03 0.0145 0.0095

Jupiter 14745-02-02 21:50 G 7106593.36 7106593.41 7106593.47 0.0489 0.0452

Uranus 14745-02-05 15:50 G 7106596.01 7106596.16 7106596.30 0.0145 0.0069

Jupiter 14745-05-03 12:00 G 7106682.85 7106683.00 7106683.15 0.0487 0.0113

Venus 14745-05-04 17:31 G 7106684.11 7106684.23 7106684.35 0.3683 0.1350

Uranus 14745-05-04 21:50 G 7106684.26 7106684.41 7106684.58 0.0145 0.0044 *

Uranus 14745-08-01 04:19 G 7106772.51 7106772.68 7106772.84 0.0145 0.0018

Uranus 14745-10-28 10:33 G 7106860.77 7106860.94 7106861.10 0.0145 0.0008

Uranus 14746-01-24 16:48 G 7106949.04 7106949.20 7106949.36 0.0145 0.0034

Uranus 14746-04-22 23:02 G 7107037.31 7107037.46 7107037.62 0.0145 0.0061

Uranus 14746-07-20 05:16 G 7107125.60 7107125.72 7107125.87 0.0145 0.0088

Uranus 14746-10-16 12:00 G 7107213.90 7107214.00 7107214.11 0.0145 0.0114

Uranus 14747-01-12 18:28 G 7107302.24 7107302.27 7107302.31 0.0145 0.0141

Mars 14748-11-14 12:57 G 7107973.96 7107974.04 7107974.13 0.1948 0.1425

Venus 14749-05-07 03:21 G 7108147.53 7108147.64 7108147.74 0.3688 0.1156

Venus 14750-11-18 17:02 G 7108708.08 7108708.21 7108708.34 0.3682 0.0647

Earth 14751-04-09 23:16 G 7108850.37 7108850.47 7108850.57 0.2651 0.1572

Moon 14751-04-09 23:16 G 7108850.38 7108850.47 7108850.56 0.2657 0.1640 *

Saturn 14751-07-03 19:26 G 7108935.20 7108935.31 7108935.43 0.0276 0.0179

Jupiter 14751-07-06 04:33 G 7108937.56 7108937.69 7108937.83 0.0541 0.0171

Saturn	14751-09-30 10:33 G	7109023.79	7109023.94	7109024.09	0.0276	0.0072
Saturn	14751-12-28 01:12 G	7109112.40	7109112.55	7109112.70	0.0276	0.0033
Saturn	14752-03-25 15:21 G	7109201.01	7109201.14	7109201.27	0.0276	0.0135
Saturn	14752-06-22 05:16 G	7109289.65	7109289.72	7109289.80	0.0276	0.0234
Venus	14754-11-20 21:21 G	7110171.31	7110171.39	7110171.48	0.3689	0.2459
Mars	14755-06-20 12:57 G	7110382.94	7110383.04	7110383.14	0.1587	0.1169
Venus	14756-06-03 17:16 G	7110732.13	7110732.22	7110732.30	0.3682	0.2755
Jupiter	14757-02-19 13:40 G	7110992.91	7110993.07	7110993.23	0.0488	0.0032
Mars	14758-04-06 18:43 G	7111404.16	7111404.28	7111404.40	0.1950	0.0398
Jupiter	14763-04-24 06:14 G	7113247.61	7113247.76	7113247.90	0.0540	0.0012
Mars	14764-11-09 18:43 G	7113813.13	7113813.28	7113813.42	0.1587	0.0483
Saturn	14766-04-14 01:26 G	7114333.48	7114333.56	7114333.65	0.0282	0.0236
Saturn	14766-07-11 17:16 G	7114422.09	7114422.22	7114422.37	0.0283	0.0125
Saturn	14766-10-08 09:50 G	7114510.75	7114510.91	7114511.06	0.0283	0.0013
Saturn	14767-01-05 02:24 G	7114599.45	7114599.60	7114599.75	0.0283	0.0108
Saturn	14767-04-03 19:26 G	7114688.22	7114688.31	7114688.40	0.0283	0.0229
Mars	14767-08-28 00:14 G	7114834.39	7114834.51	7114834.63	0.1950	0.0646
Jupiter	14768-12-08 15:50 G	7115303.02	7115303.16	7115303.31	0.0489	0.0171
Jupiter	14769-03-08 06:43 G	7115392.70	7115392.78	7115392.87	0.0487	0.0407
Moon	14771-04-05 10:48 G	7116150.85	7116150.95	7116151.05	0.2651	0.1502
Earth	14771-04-05 11:45 G	7116150.88	7116150.99	7116151.09	0.2649	0.1398 *
Moon	14773-10-04 01:26 G	7117063.44	7117063.56	7117063.69	0.2687	0.0788
Earth	14773-10-04 02:09 G	7117063.46	7117063.59	7117063.72	0.2682	0.0681 *
Mars	14774-04-02 00:43 G	7117243.38	7117243.53	7117243.68	0.1586	0.0192
Jupiter	14775-02-10 06:28 G	7117557.63	7117557.77	7117557.90	0.0539	0.0204
Jupiter	14775-05-10 23:31 G	7117647.44	7117647.48	7117647.52	0.0542	0.0519
Mars	14777-01-17 05:16 G	7118264.66	7118264.72	7118264.77	0.1950	0.1744
Jupiter	14780-09-26 18:00 G	7119613.14	7119613.25	7119613.37	0.0489	0.0309
Saturn	14780-11-19 21:50 G	7119667.31	7119667.41	7119667.51	0.0277	0.0204
Jupiter	14780-12-25 08:38 G	7119702.73	7119702.86	7119702.99	0.0487	0.0264

Saturn	14781-02-16 12:43 G	7119755.89	7119756.03	7119756.18	0.0277	0.0097
Saturn	14781-05-16 03:36 G	7119844.50	7119844.65	7119844.80	0.0277	0.0011
Saturn	14781-08-12 17:45 G	7119933.11	7119933.24	7119933.38	0.0276	0.0113
Saturn	14781-11-09 07:55 G	7120021.74	7120021.83	7120021.93	0.0276	0.0213
Mars	14783-08-23 06:57 G	7120673.66	7120673.79	7120673.91	0.1586	0.0848
Moon	14784-04-07 07:40 G	7120901.70	7120901.82	7120901.94	0.2656	0.0240
Earth	14784-04-07 08:09 G	7120901.72	7120901.84	7120901.97	0.2650	0.0290 *
Earth	14786-10-07 02:09 G	7121814.48	7121814.59	7121814.71	0.2681	0.1440
Moon	14786-10-07 02:24 G	7121814.49	7121814.60	7121814.71	0.2688	0.1504 *
Jupiter	14786-11-29 07:12 G	7121867.70	7121867.80	7121867.91	0.0539	0.0391
Uranus	14787-02-26 18:43 G	7121957.22	7121957.28	7121957.36	0.0133	0.0118
Jupiter	14787-02-27 00:57 G	7121957.43	7121957.54	7121957.65	0.0541	0.0340
Uranus	14787-05-25 22:48 G	7122045.36	7122045.45	7122045.56	0.0133	0.0099
Uranus	14787-08-22 02:52 G	7122133.51	7122133.62	7122133.74	0.0133	0.0081
Uranus	14787-11-18 06:57 G	7122221.66	7122221.79	7122221.92	0.0133	0.0063
Uranus	14788-02-14 11:02 G	7122309.82	7122309.96	7122310.10	0.0133	0.0045
Uranus	14788-05-12 14:52 G	7122397.97	7122398.12	7122398.26	0.0133	0.0027
Mars	14788-05-15 13:12 G	7122400.98	7122401.05	7122401.13	0.1949	0.1531
Uranus	14788-08-08 18:43 G	7122486.14	7122486.28	7122486.43	0.0133	0.0009
Uranus	14788-11-04 22:33 G	7122574.30	7122574.44	7122574.59	0.0133	0.0010
Uranus	14789-02-01 02:24 G	7122662.46	7122662.60	7122662.75	0.0133	0.0027
Venus	14789-04-28 18:00 G	7122749.17	7122749.25	7122749.33	0.3687	0.2599
Uranus	14789-04-30 06:14 G	7122750.63	7122750.76	7122750.90	0.0134	0.0044
Uranus	14789-07-27 10:04 G	7122838.79	7122838.92	7122839.05	0.0134	0.0062
Uranus	14789-10-23 13:40 G	7122926.96	7122927.07	7122927.20	0.0134	0.0080
Uranus	14790-01-19 17:31 G	7123015.14	7123015.23	7123015.33	0.0134	0.0097
Uranus	14790-04-17 21:07 G	7123103.32	7123103.38	7123103.46	0.0134	0.0114
Uranus	14790-07-15 00:43 G	7123191.52	7123191.53	7123191.57	0.0134	0.0131
Jupiter	14792-07-15 20:24 G	7123923.29	7123923.35	7123923.41	0.0490	0.0445
Jupiter	14792-10-13 10:33 G	7124012.79	7124012.94	7124013.09	0.0488	0.0122

Mars 14793-01-12 13:12 G 7124104.01 7124104.05 7124104.10 0.1586 0.1497

Venus 14794-11-12 12:43 G 7124772.92 7124773.03 7124773.14 0.3688 0.1160

Mars 14794-12-19 13:26 G 7124809.97 7124810.06 7124810.15 0.1587 0.1273

Saturn 14795-09-01 03:07 G 7125065.58 7125065.63 7125065.68 0.0282 0.0264

Saturn 14795-11-28 18:43 G 7125154.16 7125154.28 7125154.42 0.0282 0.0154

Saturn 14796-02-25 11:02 G 7125242.80 7125242.96 7125243.11 0.0282 0.0040

Saturn 14796-05-24 03:36 G 7125331.50 7125331.65 7125331.80 0.0282 0.0076

Venus 14796-05-25 17:45 G 7125333.16 7125333.24 7125333.33 0.3683 0.2665

Saturn 14796-08-20 20:24 G 7125420.24 7125420.35 7125420.47 0.0283 0.0195

Earth 14797-04-10 04:33 G 7125652.60 7125652.69 7125652.77 0.2651 0.1918

Moon 14797-04-10 04:48 G 7125652.61 7125652.70 7125652.78 0.2657 0.1916 *

Mars 14797-10-05 18:57 G 7125831.17 7125831.29 7125831.41 0.1950 0.0510

Jupiter 14798-12-16 02:38 G 7126267.47 7126267.61 7126267.75 0.0541 0.0166

Neptune 14799-07-10 16:19 G 7126474.15 7126474.18 7126474.25 0.0088 0.0083

Neptune 14799-10-06 18:43 G 7126562.21 7126562.28 7126562.37 0.0088 0.0075

Neptune 14800-01-02 21:07 G 7126650.28 7126650.38 7126650.48 0.0088 0.0067

Neptune 14800-03-30 23:02 G 7126738.35 7126738.46 7126738.59 0.0088 0.0060

Venus 14800-05-28 07:12 G 7126796.69 7126796.80 7126796.91 0.3688 0.0227

Neptune 14800-06-27 01:12 G 7126826.43 7126826.55 7126826.69 0.0088 0.0052

Neptune 14800-09-23 03:36 G 7126914.51 7126914.65 7126914.79 0.0088 0.0044

Neptune 14800-12-20 05:31 G 7127002.60 7127002.73 7127002.89 0.0088 0.0037

Neptune 14801-03-18 07:55 G 7127090.68 7127090.83 7127090.99 0.0088 0.0029

Neptune 14801-06-14 10:04 G 7127178.77 7127178.92 7127179.09 0.0088 0.0021

Neptune 14801-09-10 12:28 G 7127266.86 7127267.02 7127267.18 0.0088 0.0013

Neptune 14801-12-07 14:38 G 7127354.95 7127355.11 7127355.28 0.0088 0.0006

Venus 14801-12-09 17:02 G 7127357.08 7127357.21 7127357.34 0.3683 0.0754

Neptune 14802-03-05 17:02 G 7127443.05 7127443.21 7127443.37 0.0088 0.0003

Neptune 14802-06-01 19:12 G 7127531.14 7127531.30 7127531.47 0.0088 0.0011

Neptune 14802-08-28 21:36 G 7127619.24 7127619.40 7127619.56 0.0088 0.0019

Neptune 14802-11-24 23:45 G 7127707.34 7127707.49 7127707.65 0.0088 0.0027

Neptune 14803-02-21 02:09 G 7127795.44 7127795.59 7127795.74 0.0088 0.0035

Neptune 14803-05-20 04:19 G 7127883.55 7127883.68 7127883.83 0.0088 0.0043

Neptune 14803-08-16 06:43 G 7127971.65 7127971.78 7127971.92 0.0088 0.0051

Neptune 14803-11-12 09:07 G 7128059.76 7128059.88 7128060.00 0.0088 0.0059

Neptune 14804-02-08 11:02 G 7128147.88 7128147.96 7128148.09 0.0088 0.0068

Neptune 14804-05-06 13:26 G 7128236.00 7128236.06 7128236.16 0.0088 0.0076

Mars 14804-05-10 18:57 G 7128240.15 7128240.29 7128240.43 0.1587 0.0579

Jupiter 14804-08-01 12:43 G 7128322.87 7128323.03 7128323.19 0.0488 0.0018

Neptune 14804-08-02 16:04 G 7128324.13 7128324.17 7128324.22 0.0088 0.0084

Venus 14805-12-12 01:26 G 7128820.46 7128820.56 7128820.66 0.3689 0.1563

Moon 14806-10-02 07:12 G 7129114.74 7129114.80 7129114.85 0.2685 0.2390

Earth 14806-10-02 08:09 G 7129114.78 7129114.84 7129114.91 0.2683 0.2314 *

Mars 14807-02-26 00:14 G 7129261.39 7129261.51 7129261.63 0.1950 0.0559

Venus 14807-06-25 16:48 G 7129381.07 7129381.20 7129381.32 0.3682 0.1272

Saturn 14810-04-08 21:21 G 7130399.33 7130399.39 7130399.46 0.0276 0.0246

Saturn 14810-07-06 12:28 G 7130487.90 7130488.02 7130488.16 0.0276 0.0138

Saturn 14810-10-03 03:36 G 7130576.49 7130576.65 7130576.80 0.0276 0.0032

Jupiter 14810-10-04 04:33 G 7130577.54 7130577.69 7130577.83 0.0541 0.0012

Saturn 14810-12-30 18:00 G 7130665.10 7130665.25 7130665.40 0.0276 0.0072

Saturn 14811-03-29 08:09 G 7130753.73 7130753.84 7130753.95 0.0276 0.0173

Saturn 14811-06-25 22:04 G 7130842.40 7130842.42 7130842.44 0.0276 0.0272

Venus 14811-06-27 19:26 G 7130844.24 7130844.31 7130844.38 0.3689 0.2858

Pluto 14811-10-10 01:26 G 7130948.52 7130948.56 7130948.61 0.0071 0.0066

Pluto 14812-01-06 01:55 G 7131036.52 7131036.58 7131036.67 0.0071 0.0057

Pluto 14812-04-03 02:38 G 7131124.52 7131124.61 7131124.72 0.0071 0.0048

Pluto 14812-06-30 03:21 G 7131212.54 7131212.64 7131212.76 0.0071 0.0039

Pluto 14812-09-26 04:04 G 7131300.56 7131300.67 7131300.80 0.0071 0.0030

Pluto 14812-12-23 04:48 G 7131388.58 7131388.70 7131388.83 0.0071 0.0020

Venus 14813-01-08 17:02 G 7131405.16 7131405.21 7131405.26 0.3682 0.3412

Pluto 14813-03-21 05:31 G 7131476.60 7131476.73 7131476.87 0.0071 0.0011

Pluto 14813-06-17 06:14 G 7131564.63 7131564.76 7131564.90 0.0072 0.0003

Pluto 14813-09-13 06:57 G 7131652.66 7131652.79 7131652.93 0.0072 0.0009

Mars 14813-10-01 00:57 G 7131670.39 7131670.54 7131670.69 0.1586 0.0100

Pluto 14813-12-10 07:40 G 7131740.69 7131740.82 7131740.95 0.0072 0.0018

Pluto 14814-03-08 08:24 G 7131828.73 7131828.85 7131828.98 0.0072 0.0028

Pluto 14814-06-04 09:07 G 7131916.77 7131916.88 7131917.00 0.0072 0.0037

Pluto 14814-08-31 09:50 G 7132004.82 7132004.91 7132005.02 0.0072 0.0047

Pluto 14814-11-27 10:33 G 7132092.87 7132092.94 7132093.03 0.0072 0.0057

Pluto 14815-02-23 11:02 G 7132180.93 7132180.96 7132181.03 0.0072 0.0068

Jupiter 14816-05-20 14:38 G 7132632.96 7132633.11 7132633.26 0.0488 0.0162

Mars 14816-07-18 05:31 G 7132691.66 7132691.73 7132691.80 0.1951 0.1625

Jupiter 14816-08-18 05:31 G 7132722.65 7132722.73 7132722.81 0.0487 0.0415

Moon 14817-04-05 16:19 G 7132953.07 7132953.18 7132953.28 0.2653 0.1195

Earth 14817-04-05 17:02 G 7132953.09 7132953.21 7132953.32 0.2649 0.1036 *

Moon 14819-10-05 07:26 G 7133865.67 7133865.81 7133865.94 0.2687 0.0363

Earth 14819-10-05 07:55 G 7133865.69 7133865.83 7133865.96 0.2682 0.0259 *

Jupiter 14822-07-23 06:00 G 7134887.61 7134887.75 7134887.89 0.0540 0.0182

Jupiter 14822-10-20 23:02 G 7134977.46 7134977.46 7134977.46 0.0542 0.0542

Mars 14823-02-21 07:12 G 7135100.67 7135100.80 7135100.93 0.1586 0.0758

Saturn 14825-04-16 18:14 G 7135886.15 7135886.26 7135886.37 0.0282 0.0198

Saturn 14825-07-14 10:04 G 7135974.78 7135974.92 7135975.07 0.0282 0.0086

Saturn 14825-10-11 02:38 G 7136063.45 7136063.61 7136063.76 0.0283 0.0031

Saturn 14826-01-07 19:12 G 7136152.17 7136152.30 7136152.44 0.0283 0.0149

Saturn 14826-04-06 12:28 G 7136240.98 7136241.02 7136241.07 0.0283 0.0270

Mars 14827-11-14 13:26 G 7136828.00 7136828.06 7136828.12 0.1949 0.1641

Jupiter 14828-03-08 16:48 G 7136943.08 7136943.20 7136943.33 0.0489 0.0300

Uranus 14828-06-06 05:02 G 7137032.67 7137032.71 7137032.77 0.0145 0.0137

Jupiter 14828-06-06 07:26 G 7137032.68 7137032.81 7137032.94 0.0487 0.0272 *

Uranus 14828-09-02 11:02 G 7137120.87 7137120.96 7137121.07 0.0145 0.0112

Uranus 14828-11-29 17:02 G 7137209.09 7137209.21 7137209.35 0.0145 0.0088

Uranus 14829-02-25 23:31 G 7137297.33 7137297.48 7137297.63 0.0145 0.0061

Uranus 14829-05-25 05:31 G 7137385.57 7137385.73 7137385.90 0.0145 0.0036

Uranus 14829-08-21 11:45 G 7137473.83 7137473.99 7137474.16 0.0145 0.0011

Uranus 14829-11-17 18:14 G 7137562.09 7137562.26 7137562.42 0.0145 0.0016

Uranus 14830-02-14 00:28 G 7137650.36 7137650.52 7137650.68 0.0145 0.0042

Moon 14830-04-08 12:57 G 7137703.92 7137704.04 7137704.16 0.2656 0.0571

Earth 14830-04-08 13:26 G 7137703.94 7137704.06 7137704.18 0.2650 0.0630 *

Uranus 14830-05-13 06:43 G 7137738.64 7137738.78 7137738.94 0.0145 0.0069

Uranus 14830-08-09 12:57 G 7137826.93 7137827.04 7137827.18 0.0145 0.0096

Uranus 14830-11-05 19:40 G 7137915.24 7137915.32 7137915.42 0.0145 0.0122

Mars 14832-07-13 13:40 G 7138531.00 7138531.07 7138531.13 0.1586 0.1404

Earth 14832-10-07 07:55 G 7138616.73 7138616.83 7138616.92 0.2681 0.1875

Moon 14832-10-07 08:09 G 7138616.74 7138616.84 7138616.93 0.2688 0.1888 *

Jupiter 14834-05-11 06:14 G 7139197.66 7139197.76 7139197.86 0.0539 0.0379

Mars 14834-06-19 13:40 G 7139237.00 7139237.07 7139237.15 0.1588 0.1372

Jupiter 14834-08-08 23:45 G 7139287.39 7139287.49 7139287.60 0.0541 0.0352

Mars 14837-04-05 18:57 G 7140258.18 7140258.29 7140258.41 0.1950 0.0613

Saturn 14839-08-26 23:16 G 7141131.46 7141131.47 7141131.49 0.0277 0.0274

Saturn 14839-11-23 14:38 G 7141219.99 7141220.11 7141220.24 0.0277 0.0165

Jupiter 14839-12-26 18:57 G 7141253.23 7141253.29 7141253.36 0.0490 0.0439

Saturn 14840-02-20 05:31 G 7141308.59 7141308.73 7141308.88 0.0277 0.0058

Jupiter 14840-03-25 09:07 G 7141342.73 7141342.88 7141343.04 0.0488 0.0130

Saturn 14840-05-18 20:09 G 7141397.19 7141397.34 7141397.49 0.0277 0.0048

Venus 14840-05-19 21:21 G 7141398.37 7141398.39 7141398.40 0.3687 0.3623

Saturn 14840-08-15 10:33 G 7141485.81 7141485.94 7141486.06 0.0277 0.0150

Saturn 14840-11-12 00:28 G 7141574.46 7141574.52 7141574.58 0.0277 0.0250

Earth 14843-04-11 09:36 G 7142454.84 7142454.90 7142454.96 0.2651 0.2251

Moon 14843-04-11 10:04 G 7142454.86 7142454.92 7142454.97 0.2657 0.2338 *

Mars 14843-11-09 19:26 G 7142667.18 7142667.31 7142667.45 0.1587 0.0681

Venus 14845-12-03 16:19 G 7143422.08 7143422.18 7143422.27 0.3687 0.2150

Jupiter 14846-05-28 00:57 G 7143597.41 7143597.54 7143597.68 0.0540 0.0170

Mars 14846-08-27 00:28 G 7143688.40 7143688.52 7143688.65 0.1951 0.0442

Moon 14850-04-04 00:43 G 7145004.50 7145004.53 7145004.55 0.2647 0.2578

Earth 14850-04-04 01:26 G 7145004.51 7145004.56 7145004.62 0.2649 0.2390 *

Venus 14851-06-19 11:02 G 7145445.85 7145445.96 7145446.07 0.3688 0.0728

Jupiter 14852-01-12 11:16 G 7145652.81 7145652.97 7145653.12 0.0488 0.0014

Moon 14852-10-02 12:43 G 7145916.95 7145917.03 7145917.11 0.2685 0.2125

Earth 14852-10-02 13:40 G 7145916.98 7145917.07 7145917.17 0.2683 0.1906 *

Venus 14852-12-30 17:16 G 7146006.11 7146006.22 7146006.33 0.3683 0.2093

Mars 14853-04-01 01:26 G 7146097.41 7146097.56 7146097.71 0.1586 0.0011

Saturn 14854-09-03 20:09 G 7146618.26 7146618.34 7146618.44 0.0282 0.0223

Saturn 14854-12-01 12:14 G 7146706.87 7146707.01 7146707.15 0.0282 0.0111

Saturn 14855-02-28 04:33 G 7146795.53 7146795.69 7146795.84 0.0282 0.0007

Saturn 14855-05-27 21:07 G 7146884.24 7146884.38 7146884.52 0.0282 0.0120

Saturn 14855-08-24 13:55 G 7146973.01 7146973.08 7146973.17 0.0282 0.0241

Mars 14856-01-17 05:31 G 7147118.66 7147118.73 7147118.81 0.1950 0.1528

Venus 14857-01-02 05:16 G 7147469.61 7147469.72 7147469.84 0.3688 0.0654

Jupiter 14858-03-16 02:24 G 7147907.45 7147907.60 7147907.74 0.0540 0.0011

Venus 14858-07-16 16:33 G 7148030.06 7148030.19 7148030.32 0.3683 0.0158

Venus 14862-07-18 23:31 G 7149493.39 7149493.48 7149493.58 0.3689 0.1976

Mars 14862-08-22 07:40 G 7149527.68 7149527.82 7149527.95 0.1586 0.0668

Moon 14863-04-06 21:21 G 7149755.28 7149755.39 7149755.51 0.2654 0.0728

Earth 14863-04-06 22:19 G 7149755.31 7149755.43 7149755.55 0.2650 0.0686 *

Jupiter 14863-10-31 13:26 G 7149962.92 7149963.06 7149963.21 0.0489 0.0151

Jupiter 14864-01-29 04:19 G 7150052.61 7150052.68 7150052.76 0.0487 0.0427

Venus 14864-01-30 16:33 G 7150054.07 7150054.19 7150054.30 0.3682 0.1908

Moon 14865-10-05 13:12 G 7150667.91 7150668.05 7150668.18 0.2688 0.0188

Earth 14865-10-05 13:26 G 7150667.93 7150668.06 7150668.20 0.2682 0.0164 *

Mars 14867-05-15 13:26 G 7151255.01 7151255.06 7151255.12 0.1949 0.1735

Venus 14868-02-01 17:31 G 7151517.18 7151517.23 7151517.28 0.3689 0.3241

Saturn 14869-04-11 14:52 G 7151952.01 7151952.12 7151952.22 0.0276 0.0204

Saturn 14869-07-09 05:45 G 7152040.60 7152040.74 7152040.89 0.0276 0.0096

Saturn 14869-10-05 20:38 G 7152129.21 7152129.36 7152129.51 0.0276 0.0010

Jupiter 14870-01-02 04:04 G 7152217.53 7152217.67 7152217.81 0.0540 0.0184

Saturn 14870-01-02 10:48 G 7152217.82 7152217.95 7152218.09 0.0276 0.0113

Saturn 14870-04-01 00:57 G 7152306.45 7152306.54 7152306.64 0.0276 0.0213

Jupiter 14870-04-01 21:21 G 7152307.38 7152307.39 7152307.39 0.0542 0.0541

Uranus 14870-12-20 22:19 G 7152570.40 7152570.43 7152570.47 0.0133 0.0129

Uranus 14871-03-19 02:24 G 7152658.52 7152658.60 7152658.68 0.0133 0.0111

Uranus 14871-06-15 06:14 G 7152746.67 7152746.76 7152746.88 0.0133 0.0093

Uranus 14871-09-11 10:33 G 7152834.82 7152834.94 7152835.06 0.0133 0.0075

Uranus 14871-12-08 14:24 G 7152922.97 7152923.10 7152923.24 0.0133 0.0057

Mars 14872-01-12 13:55 G 7152958.00 7152958.08 7152958.16 0.1586 0.1316

Uranus 14872-03-05 18:28 G 7153011.13 7153011.27 7153011.41 0.0133 0.0039

Uranus 14872-06-01 22:19 G 7153099.29 7153099.43 7153099.58 0.0133 0.0021

Uranus 14872-08-29 02:09 G 7153187.45 7153187.59 7153187.74 0.0133 0.0004

Uranus 14872-11-25 06:00 G 7153275.61 7153275.75 7153275.90 0.0133 0.0016

Uranus 14873-02-21 09:50 G 7153363.77 7153363.91 7153364.06 0.0133 0.0033

Uranus 14873-05-20 13:40 G 7153451.94 7153452.07 7153452.21 0.0133 0.0050

Uranus 14873-08-16 17:31 G 7153540.11 7153540.23 7153540.36 0.0134 0.0067

Uranus 14873-11-12 21:21 G 7153628.28 7153628.39 7153628.50 0.0134 0.0085

Mars 14873-12-18 14:09 G 7153664.03 7153664.09 7153664.15 0.1587 0.1467

Uranus 14874-02-09 01:12 G 7153716.45 7153716.55 7153716.64 0.0134 0.0102

Uranus 14874-05-08 04:48 G 7153804.64 7153804.70 7153804.76 0.0134 0.0119

Jupiter 14875-08-19 15:21 G 7154273.02 7154273.14 7154273.27 0.0489 0.0293

Jupiter 14875-11-17 05:45 G 7154362.62 7154362.74 7154362.87 0.0487 0.0279

Moon 14876-04-08 18:28 G 7154506.15 7154506.27 7154506.38 0.2657 0.0936

Earth 14876-04-08 18:43 G 7154506.16 7154506.28 7154506.39 0.2650 0.0986 *

Mars 14876-10-04 19:12 G 7154685.19 7154685.30 7154685.42 0.1950 0.0717

Earth 14878-10-08 13:26 G 7155419.00 7155419.06 7155419.13 0.2681 0.2310

Moon 14878-10-08 13:55 G 7155419.02 7155419.08 7155419.14 0.2687 0.2358 *

Jupiter 14881-10-21 05:31 G 7156527.62 7156527.73 7156527.83 0.0539 0.0362

Jupiter 14882-01-18 23:02 G 7156617.36 7156617.46 7156617.57 0.0541 0.0370

Neptune 14882-04-14 12:43 G 7156703.03 7156703.03 7156703.04 0.0089 0.0089

Neptune 14882-07-11 14:38 G 7156791.06 7156791.11 7156791.19 0.0089 0.0081

Neptune 14882-10-07 16:48 G 7156879.13 7156879.20 7156879.30 0.0089 0.0073

Neptune 14883-01-03 19:12 G 7156967.20 7156967.30 7156967.41 0.0089 0.0065

Neptune 14883-04-01 21:21 G 7157055.27 7157055.39 7157055.51 0.0089 0.0057

Mars 14883-05-10 19:55 G 7157094.20 7157094.33 7157094.46 0.1587 0.0776

Neptune 14883-06-28 23:31 G 7157143.35 7157143.48 7157143.61 0.0089 0.0049

Neptune 14883-09-25 01:26 G 7157231.43 7157231.56 7157231.70 0.0089 0.0041

Neptune 14883-12-22 03:36 G 7157319.51 7157319.65 7157319.80 0.0089 0.0033

Saturn 14884-01-21 19:40 G 7157350.27 7157350.32 7157350.37 0.0282 0.0266

Neptune 14884-03-19 05:45 G 7157407.59 7157407.74 7157407.89 0.0089 0.0025

Saturn 14884-04-19 11:16 G 7157438.85 7157438.97 7157439.10 0.0282 0.0156

Neptune 14884-06-15 07:40 G 7157495.67 7157495.82 7157495.97 0.0089 0.0017

Saturn 14884-07-17 03:36 G 7157527.49 7157527.65 7157527.80 0.0282 0.0043

Neptune 14884-09-11 09:50 G 7157583.76 7157583.91 7157584.06 0.0089 0.0009

Saturn 14884-10-13 19:55 G 7157616.18 7157616.33 7157616.49 0.0282 0.0074

Neptune 14884-12-08 11:45 G 7157671.84 7157671.99 7157672.15 0.0089 0.0002

Saturn 14885-01-10 12:43 G 7157704.92 7157705.03 7157705.15 0.0283 0.0193

Neptune 14885-03-06 13:55 G 7157759.92 7157760.08 7157760.23 0.0089 0.0007

Neptune 14885-06-02 15:50 G 7157848.01 7157848.16 7157848.31 0.0089 0.0015

Neptune 14885-08-29 17:45 G 7157936.10 7157936.24 7157936.39 0.0089 0.0023

Neptune 14885-11-25 19:40 G 7158024.18 7158024.32 7158024.47 0.0089 0.0030

Neptune 14886-02-21 21:36 G 7158112.27 7158112.40 7158112.55 0.0089 0.0038

Mars 14886-02-25 00:43 G 7158115.41 7158115.53 7158115.65 0.1950 0.0332

Neptune 14886-05-20 23:45 G 7158200.36 7158200.49 7158200.62 0.0089 0.0046

Neptune 14886-08-17 01:26 G 7158288.45 7158288.56 7158288.69 0.0089 0.0054

Neptune 14886-11-13 03:36 G 7158376.54 7158376.65 7158376.76 0.0089 0.0061

Neptune 14887-02-09 05:16 G 7158464.64 7158464.72 7158464.83 0.0089 0.0069

Neptune 14887-05-08 07:12 G 7158552.74 7158552.80 7158552.89 0.0089 0.0076

Jupiter 14887-06-07 17:45 G 7158583.17 7158583.24 7158583.31 0.0490 0.0430

Neptune 14887-08-04 09:21 G 7158640.84 7158640.89 7158640.94 0.0089 0.0084

Jupiter 14887-09-05 07:55 G 7158672.68 7158672.83 7158672.98 0.0488 0.0137

Earth 14889-04-11 14:52 G 7159257.09 7159257.12 7159257.14 0.2651 0.2596

Moon 14889-04-11 15:07 G 7159257.13 7159257.13 7159257.14 0.2658 0.2651 *

Mars 14892-09-30 01:55 G 7160524.43 7160524.58 7160524.73 0.1586 0.0099

Jupiter 14893-11-06 23:45 G 7160927.36 7160927.49 7160927.63 0.0540 0.0181

Mars 14895-07-18 05:45 G 7161545.66 7161545.74 7161545.83 0.1951 0.1417

Moon 14896-04-04 06:00 G 7161806.67 7161806.75 7161806.82 0.2649 0.2080

Earth 14896-04-04 06:57 G 7161806.71 7161806.79 7161806.86 0.2649 0.2028 *

Venus 14896-12-24 19:40 G 7162071.26 7162071.32 7162071.38 0.3687 0.3169

Pluto 14897-05-30 06:43 G 7162227.69 7162227.78 7162227.91 0.0073 0.0061

Pluto 14897-08-26 09:21 G 7162315.75 7162315.89 7162316.05 0.0073 0.0046

Pluto 14897-11-22 11:31 G 7162403.82 7162403.98 7162404.17 0.0073 0.0031

Pluto 14898-02-18 14:09 G 7162491.90 7162492.09 7162492.28 0.0073 0.0016

Pluto 14898-05-17 16:33 G 7162580.00 7162580.19 7162580.38 0.0073 0.0002

Pluto 14898-08-13 18:43 G 7162668.10 7162668.28 7162668.47 0.0073 0.0013

Saturn 14898-08-29 16:33 G 7162684.11 7162684.19 7162684.28 0.0277 0.0232

Moon 14898-10-03 18:28 G 7162719.16 7162719.27 7162719.38 0.2686 0.1534

Earth 14898-10-03 19:26 G 7162719.20 7162719.31 7162719.42 0.2682 0.1487 *

Pluto 14898-11-09 20:52 G 7162756.20 7162756.37 7162756.56 0.0073 0.0027

Saturn 14898-11-26 07:40 G 7162772.69 7162772.82 7162772.96 0.0277 0.0124

Pluto 14899-02-05 22:48 G 7162844.32 7162844.45 7162844.63 0.0073 0.0042

Saturn 14899-02-22 22:33 G 7162861.29 7162861.44 7162861.60 0.0277 0.0019

Pluto 14899-05-05 01:12 G 7162932.45 7162932.55 7162932.69 0.0072 0.0056

Saturn 14899-05-22 13:12 G 7162949.91 7162950.05 7162950.19 0.0277 0.0088

Jupiter 14899-06-24 09:36 G 7162982.75 7162982.90 7162983.06 0.0489 0.0013

Pluto 14899-08-01 03:21 G 7163020.61 7163020.64 7163020.72 0.0072 0.0070

Saturn 14899-08-19 03:21 G 7163038.53 7163038.64 7163038.75 0.0277 0.0190

Mars 14902-02-21 07:55 G 7163954.69 7163954.83 7163954.97 0.1586 0.0571

Venus 14902-07-11 14:38 G 7164095.01 7164095.11 7164095.21 0.3688 0.1705

Venus 14904-01-22 17:45 G 7164655.19 7164655.24 7164655.29 0.3683 0.3383

Jupiter 14905-08-27 00:57 G 7165237.39 7165237.54 7165237.68 0.0540 0.0017

Mars 14906-11-14 13:40 G 7165682.03 7165682.07 7165682.11 0.1949 0.1839

Venus 14908-01-25 09:07 G 7166118.77 7166118.88 7166119.00 0.3688 0.0315

Moon 14909-04-08 02:38 G 7166557.49 7166557.61 7166557.73 0.2654 0.0498

Earth 14909-04-08 03:21 G 7166557.52 7166557.64 7166557.77 0.2650 0.0333 *

Venus 14909-08-07 16:48 G 7166679.08 7166679.20 7166679.31 0.3683 0.1526

Jupiter 14911-04-13 11:45 G 7167292.84 7167292.99 7167293.14 0.0489 0.0148

Jupiter 14911-07-12 02:38 G 7167382.54 7167382.61 7167382.68 0.0487 0.0431

Mars 14911-07-14 14:24 G 7167385.00 7167385.10 7167385.19 0.1586 0.1223

Moon 14911-10-07 18:57 G 7167470.16 7167470.29 7167470.42 0.2689 0.0491

Earth 14911-10-07 19:12 G 7167470.17 7167470.30 7167470.43 0.2681 0.0595 *

Uranus 14912-06-27 12:43 G 7167733.97 7167734.03 7167734.11 0.0145 0.0130

Uranus 14912-09-23 18:57 G 7167822.18 7167822.29 7167822.40 0.0145 0.0104

Uranus 14912-12-21 00:57 G 7167910.40 7167910.54 7167910.68 0.0145 0.0079

Uranus 14913-03-19 06:57 G 7167998.64 7167998.79 7167998.95 0.0145 0.0054

Uranus 14913-06-15 13:12 G 7168086.89 7168087.05 7168087.22 0.0145 0.0028

Mars 14913-06-19 14:38 G 7168091.10 7168091.11 7168091.13 0.1587 0.1573

Venus 14913-08-10 03:36 G 7168142.54 7168142.65 7168142.76 0.3689 0.1057

Saturn 14913-09-07 13:55 G 7168170.97 7168171.08 7168171.20 0.0282 0.0179

Uranus 14913-09-11 19:26 G 7168175.15 7168175.31 7168175.48 0.0145 0.0005

Saturn 14913-12-05 06:00 G 7168259.60 7168259.75 7168259.90 0.0282 0.0066

Uranus 14913-12-09 01:55 G 7168263.41 7168263.58 7168263.74 0.0145 0.0024

Saturn 14914-03-03 22:19 G 7168348.28 7168348.43 7168348.59 0.0282 0.0049

Uranus 14914-03-07 08:09 G 7168351.68 7168351.84 7168352.00 0.0145 0.0050

Saturn 14914-05-31 15:07 G 7168437.00 7168437.13 7168437.26 0.0282 0.0167

Uranus 14914-06-03 14:24 G 7168439.96 7168440.10 7168440.25 0.0145 0.0077

Uranus 14914-08-30 20:52 G 7168528.26 7168528.37 7168528.49 0.0145 0.0103

Uranus 14914-11-27 03:21 G 7168616.57 7168616.64 7168616.72 0.0145 0.0130

Venus 14915-02-21 16:19 G 7168703.05 7168703.18 7168703.31 0.3682 0.0469

Mars 14916-04-05 19:26 G 7169112.20 7169112.31 7169112.42 0.1950 0.0823

Jupiter 14917-06-15 01:55 G 7169547.44 7169547.58 7169547.71 0.0540 0.0191

Jupiter 14917-09-12 19:12 G 7169637.28 7169637.30 7169637.32 0.0542 0.0534

Venus 14919-02-23 21:36 G 7170166.32 7170166.40 7170166.49 0.3689 0.2370

Venus 14920-09-06 16:19 G 7170727.08 7170727.18 7170727.27 0.3682 0.2544

Moon 14922-04-10 23:45 G 7171308.39 7171308.49 7171308.59 0.2657 0.1376

Earth 14922-04-10 23:45 G 7171308.39 7171308.49 7171308.60 0.2651 0.1325 *

Mars 14922-11-09 20:24 G 7171521.22 7171521.35 7171521.47 0.1587 0.0874

Jupiter 14923-01-30 14:09 G 7171602.97 7171603.09 7171603.21 0.0489 0.0284

Jupiter 14923-04-30 04:33 G 7171692.56 7171692.69 7171692.82 0.0487 0.0288

Venus 14924-09-08 15:36 G 7172190.13 7172190.15 7172190.17 0.3690 0.3629

Mars 14925-08-27 00:43 G 7172542.41 7172542.53 7172542.66 0.1951 0.0242

Saturn 14928-01-17 17:02 G 7173416.18 7173416.21 7173416.24 0.0277 0.0269

Saturn 14928-04-15 08:24 G 7173504.72 7173504.85 7173504.97 0.0276 0.0160

Saturn 14928-07-12 23:16 G 7173593.32 7173593.47 7173593.62 0.0276 0.0053

Saturn 14928-10-09 13:55 G 7173681.93 7173682.08 7173682.23 0.0276 0.0052

Saturn 14929-01-06 04:19 G 7173770.55 7173770.68 7173770.80 0.0276 0.0154

Jupiter 14929-04-03 03:21 G 7173857.53 7173857.64 7173857.75 0.0539 0.0367

Saturn 14929-04-04 18:00 G 7173859.20 7173859.25 7173859.31 0.0276 0.0254

Jupiter 14929-07-01 21:07 G 7173947.28 7173947.38 7173947.48 0.0542 0.0366

Mars 14932-04-01 02:09 G 7174951.44 7174951.59 7174951.74 0.1586 0.0188

Jupiter 14934-11-18 16:19 G 7175913.10 7175913.18 7175913.25 0.0490 0.0425

Mars 14935-01-17 06:00 G 7175972.66 7175972.75 7175972.84 0.1951 0.1308

Jupiter 14935-02-16 06:14 G 7176002.61 7176002.76 7176002.91 0.0488 0.0142

Jupiter 14941-04-19 22:48 G 7178257.32 7178257.45 7178257.59 0.0541 0.0194

Mars 14941-08-22 08:24 G 7178381.71 7178381.85 7178381.99 0.1586 0.0475

Moon 14942-04-06 11:02 G 7178608.88 7178608.96 7178609.05 0.2651 0.1856

Earth 14942-04-06 12:00 G 7178608.91 7178609.00 7178609.10 0.2649 0.1668 *

Saturn 14943-01-25 13:26 G 7178902.97 7178903.06 7178903.16 0.0282 0.0221

Saturn 14943-04-24 05:16 G 7178991.58 7178991.72 7178991.86 0.0282 0.0110

Saturn 14943-07-21 21:36 G 7179080.24 7179080.40 7179080.55 0.0282 0.0009

Saturn 14943-10-18 14:09 G 7179168.94 7179169.09 7179169.23 0.0282 0.0121

Saturn 14944-01-15 06:57 G 7179257.72 7179257.79 7179257.88 0.0282 0.0241

Moon 14944-10-05 00:14 G 7179521.39 7179521.51 7179521.63 0.2687 0.1252

Earth 14944-10-05 00:57 G 7179521.42 7179521.54 7179521.66 0.2682 0.1073 *

Jupiter 14946-12-05 08:24 G 7180312.69 7180312.85 7180313.00 0.0488 0.0013

Mars 14951-01-12 14:38 G 7181812.01 7181812.11 7181812.22 0.1586 0.1130

Jupiter 14953-02-05 23:31 G 7182567.34 7182567.48 7182567.63 0.0540 0.0015

Venus 14953-08-01 18:00 G 7182744.18 7182744.25 7182744.33 0.3687 0.2716

Uranus 14955-01-11 06:14 G 7183271.70 7183271.76 7183271.81 0.0133 0.0122

Moon 14955-04-09 07:55 G 7183359.71 7183359.83 7183359.96 0.2654 0.0062

Earth 14955-04-09 08:38 G 7183359.74 7183359.86 7183359.98 0.2650 0.0026 *

Uranus 14955-04-09 10:04 G 7183359.83 7183359.92 7183360.02 0.0133 0.0104 *

Uranus 14955-07-06 14:09 G 7183447.98 7183448.09 7183448.21 0.0133 0.0086

Uranus 14955-10-02 18:00 G 7183536.13 7183536.25 7183536.39 0.0133 0.0068

Mars 14955-10-05 19:40 G 7183539.21 7183539.32 7183539.42 0.1950 0.0930

Uranus 14955-12-29 22:04 G 7183624.29 7183624.42 7183624.56 0.0133 0.0050

Uranus 14956-03-27 01:55 G 7183712.44 7183712.58 7183712.73 0.0133 0.0033

Uranus 14956-06-23 06:00 G 7183800.60 7183800.75 7183800.90 0.0133 0.0014

Uranus 14956-09-19 09:50 G 7183888.77 7183888.91 7183889.06 0.0133 0.0005

Uranus 14956-12-16 13:40 G 7183976.93 7183977.07 7183977.22 0.0133 0.0022

Uranus 14957-03-14 17:31 G 7184065.09 7184065.23 7184065.37 0.0133 0.0039

Uranus 14957-06-10 21:21 G 7184153.26 7184153.39 7184153.52 0.0134 0.0057

Saturn 14957-09-02 10:04 G 7184236.81 7184236.92 7184237.03 0.0277 0.0189

Uranus 14957-09-07 01:12 G 7184241.43 7184241.55 7184241.67 0.0134 0.0074

Moon 14957-10-08 00:28 G 7184272.40 7184272.52 7184272.65 0.2688 0.1080

Earth 14957-10-08 00:43 G 7184272.41 7184272.53 7184272.66 0.2681 0.1021 *

Saturn 14957-11-30 01:12 G 7184325.40 7184325.55 7184325.69 0.0277 0.0080

Uranus 14957-12-04 04:48 G 7184329.60 7184329.70 7184329.81 0.0134 0.0091

Saturn 14958-02-26 15:50 G 7184414.01 7184414.16 7184414.31 0.0277 0.0026

Uranus 14958-03-02 08:24 G 7184417.78 7184417.85 7184417.94 0.0134 0.0109

Saturn 14958-05-26 06:14 G 7184502.63 7184502.76 7184502.90 0.0277 0.0129

Uranus 14958-05-29 12:14 G 7184505.97 7184506.01 7184506.06 0.0134 0.0126

Saturn 14958-08-22 20:24 G 7184591.27 7184591.35 7184591.43 0.0277 0.0230

Jupiter 14958-09-23 10:04 G 7184622.77 7184622.92 7184623.07 0.0489 0.0145

Jupiter 14958-12-22 00:57 G 7184712.47 7184712.54 7184712.61 0.0487 0.0435

Venus 14959-02-15 12:57 G 7184767.93 7184768.04 7184768.14 0.3688 0.1281

Venus 14960-08-28 17:16 G 7185328.13 7185328.22 7185328.30 0.3683 0.2834

Mars 14962-05-10 20:38 G 7185948.24 7185948.36 7185948.48 0.1587 0.0974

Neptune 14964-04-06 15:07 G 7186645.08 7186645.13 7186645.20 0.0088 0.0081

Neptune 14964-07-03 17:16 G 7186733.15 7186733.22 7186733.32 0.0088 0.0073

Venus 14964-08-31 07:26 G 7186791.69 7186791.81 7186791.92 0.3688 0.0129

Neptune 14964-09-29 19:26 G 7186821.22 7186821.31 7186821.43 0.0088 0.0066

Jupiter 14964-11-25 00:28 G 7186877.38 7186877.52 7186877.66 0.0539 0.0185

Neptune 14964-12-26 21:36 G 7186909.29 7186909.40 7186909.53 0.0088 0.0058

Jupiter 14965-02-22 17:31 G 7186967.22 7186967.23 7186967.25 0.0541 0.0538

Mars 14965-02-25 00:57 G 7186969.42 7186969.54 7186969.67 0.1951 0.0132

Neptune 14965-03-25 00:00 G 7186997.37 7186997.50 7186997.63 0.0088 0.0050

Neptune 14965-06-21 02:09 G 7187085.45 7187085.59 7187085.73 0.0088 0.0042

Neptune 14965-09-17 04:04 G 7187173.54 7187173.67 7187173.83 0.0088 0.0035

Neptune 14965-12-14 06:28 G 7187261.62 7187261.77 7187261.93 0.0088 0.0027

Neptune 14966-03-12 08:52 G 7187349.71 7187349.87 7187350.03 0.0088 0.0019

Venus 14966-03-14 16:19 G 7187352.05 7187352.18 7187352.30 0.3683 0.0932

Neptune 14966-06-08 11:02 G 7187437.80 7187437.96 7187438.12 0.0088 0.0011

Neptune 14966-09-04 13:12 G 7187525.89 7187526.05 7187526.21 0.0088 0.0004

Neptune 14966-12-01 15:36 G 7187613.98 7187614.15 7187614.31 0.0088 0.0005

Neptune 14967-02-27 17:45 G 7187702.08 7187702.24 7187702.40 0.0088 0.0013

Neptune 14967-05-26 19:55 G 7187790.18 7187790.33 7187790.49 0.0088 0.0021

Neptune 14967-08-22 22:04 G 7187878.28 7187878.42 7187878.58 0.0088 0.0029

Neptune 14967-11-19 00:14 G 7187966.38 7187966.51 7187966.67 0.0088 0.0037

Neptune 14968-02-15 02:38 G 7188054.48 7188054.61 7188054.76 0.0088 0.0045

Earth 14968-04-11 05:02 G 7188110.61 7188110.71 7188110.80 0.2651 0.1674

Moon 14968-04-11 05:02 G 7188110.62 7188110.71 7188110.81 0.2658 0.1632 *

Neptune 14968-05-13 05:02 G 7188142.59 7188142.71 7188142.85 0.0088 0.0053

Neptune 14968-08-09 07:12 G 7188230.70 7188230.80 7188230.93 0.0088 0.0061

Neptune 14968-11-05 09:36 G 7188318.81 7188318.90 7188319.01 0.0088 0.0069

Neptune 14969-02-01 12:00 G 7188406.93 7188407.00 7188407.09 0.0088 0.0077

Neptune 14969-04-30 14:38 G 7188495.07 7188495.11 7188495.15 0.0088 0.0085

Venus 14970-03-17 01:40 G 7188815.47 7188815.57 7188815.68 0.3689 0.1471

Jupiter 14970-07-12 12:14 G 7188932.89 7188933.01 7188933.14 0.0490 0.0284

Jupiter 14970-10-10 02:38 G 7189022.49 7189022.61 7189022.74 0.0488 0.0289

Venus 14971-09-28 15:50 G 7189376.04 7189376.16 7189376.29 0.3682 0.1085

Mars 14971-10-01 02:38 G 7189378.46 7189378.61 7189378.76 0.1586 0.0289

Saturn 14972-06-13 16:19 G 7189635.11 7189635.18 7189635.26 0.0282 0.0241

Saturn 14972-09-10 08:09 G 7189723.70 7189723.84 7189723.98 0.0282 0.0131

Saturn 14972-12-08 00:14 G 7189812.36 7189812.51 7189812.67 0.0282 0.0018

Saturn 14973-03-06 16:48 G 7189901.05 7189901.20 7189901.35 0.0282 0.0099

Saturn 14973-06-03 09:36 G 7189989.80 7189989.90 7189990.00 0.0282 0.0218

Mars 14974-07-18 06:14 G 7190399.66 7190399.76 7190399.86 0.1951 0.1200

Venus 14975-09-30 19:55 G 7190839.25 7190839.33 7190839.40 0.3689 0.2769

Jupiter 14976-09-13 00:57 G 7191187.44 7191187.54 7191187.65 0.0539 0.0375

Jupiter 14976-12-11 18:43 G 7191277.18 7191277.28 7191277.39 0.0541 0.0359

Venus 14977-04-13 16:04 G 7191400.11 7191400.17 7191400.23 0.3681 0.3204

Mars 14981-02-20 08:38 G 7192808.72 7192808.86 7192809.01 0.1586 0.0385

Jupiter 14982-04-30 14:38 G 7193243.04 7193243.11 7193243.19 0.0490 0.0420

Jupiter 14982-07-29 04:48 G 7193332.55 7193332.70 7193332.85 0.0488 0.0148

Saturn 14987-01-20 11:02 G 7194968.87 7194968.96 7194969.05 0.0277 0.0222

Saturn	14987-04-19 02:09 G	7195057.46	7195057.59	7195057.74	0.0277	0.0113
Saturn	14987-07-16 17:02 G	7195146.06	7195146.21	7195146.37	0.0276	0.0010
Saturn	14987-10-13 07:40 G	7195234.68	7195234.82	7195234.96	0.0276	0.0097
Saturn	14988-01-09 21:50 G	7195323.31	7195323.41	7195323.51	0.0276	0.0198
Moon	14988-04-06 16:19 G	7195411.08	7195411.18	7195411.29	0.2651	0.1383
Earth	14988-04-06 17:16 G	7195411.12	7195411.22	7195411.33	0.2649	0.1305 *
Jupiter	14988-09-29 20:38 G	7195587.22	7195587.36	7195587.50	0.0541	0.0186
Mars	14990-07-13 15:07 G	7196239.02	7196239.13	7196239.24	0.1586	0.1039
Moon	14990-10-06 06:00 G	7196323.62	7196323.75	7196323.87	0.2688	0.0686
Earth	14990-10-06 06:28 G	7196323.64	7196323.77	7196323.90	0.2682	0.0663 *
Jupiter	14994-05-17 06:28 G	7197642.62	7197642.77	7197642.93	0.0488	0.0009
Mars	14995-04-05 19:40 G	7197966.22	7197966.32	7197966.42	0.1950	0.1029
Uranus	14996-07-17 20:38 G	7198435.28	7198435.36	7198435.45	0.0145	0.0121
Uranus	14996-10-14 02:38 G	7198523.50	7198523.61	7198523.74	0.0145	0.0096
Uranus	14997-01-10 08:38 G	7198611.73	7198611.86	7198612.01	0.0145	0.0071
Uranus	14997-04-08 14:52 G	7198699.97	7198700.12	7198700.28	0.0145	0.0046
Uranus	14997-07-05 21:07 G	7198788.22	7198788.38	7198788.55	0.0145	0.0020
Uranus	14997-10-02 03:21 G	7198876.48	7198876.64	7198876.81	0.0145	0.0008
Uranus	14997-12-29 09:36 G	7198964.74	7198964.90	7198965.07	0.0145	0.0033
Uranus	14998-03-27 16:04 G	7199053.02	7199053.17	7199053.33	0.0145	0.0059
Uranus	14998-06-23 22:33 G	7199141.30	7199141.44	7199141.57	0.0145	0.0085
Uranus	14998-09-20 04:48 G	7199229.60	7199229.70	7199229.81	0.0145	0.0112
Uranus	14998-12-17 11:02 G	7199317.93	7199317.96	7199318.02	0.0145	0.0139
Jupiter	15000-07-19 22:19 G	7199897.28	7199897.43	7199897.57	0.0540	0.0014

16TH MILLENNIUM CE

This is a list of transits of Mercury in the 16th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	**15001-04-10 13:26**	**G**	**7200161.94**	**7200162.06**	**7200162.18**	**0.2655**	**0.0257**	
Earth	**15001-04-10 13:55**	**G**	**7200161.95**	**7200162.08**	**7200162.20**	**0.2650**	**0.0384**	*
Mars	**15001-11-09 21:07**	**G**	**7200375.27**	**7200375.38**	**7200375.49**	**0.1587**	**0.1071**	
Saturn	**15002-01-29 07:40**	**G**	**7200455.70**	**7200455.82**	**7200455.94**	**0.0282**	**0.0173**	
Saturn	**15002-04-27 23:31**	**G**	**7200544.33**	**7200544.48**	**7200544.64**	**0.0282**	**0.0061**	
Saturn	**15002-07-25 15:50**	**G**	**7200633.01**	**7200633.16**	**7200633.32**	**0.0282**	**0.0055**	
Saturn	**15002-10-22 08:38**	**G**	**7200721.74**	**7200721.86**	**7200721.99**	**0.0282**	**0.0173**	
Moon	**15003-10-10 06:28**	**G**	**7201074.65**	**7201074.77**	**7201074.88**	**0.2688**	**0.1380**	
Earth	**15003-10-10 06:28**	**G**	**7201074.65**	**7201074.77**	**7201074.88**	**0.2681**	**0.1449**	*
Mars	**15004-08-27 01:26**	**G**	**7201396.43**	**7201396.56**	**7201396.68**	**0.1951**	**0.0075**	
Jupiter	**15006-03-06 08:38**	**G**	**7201952.71**	**7201952.86**	**7201953.01**	**0.0489**	**0.0139**	
Jupiter	**15006-06-03 23:31**	**G**	**7202042.41**	**7202042.48**	**7202042.54**	**0.0487**	**0.0439**	
Venus	**15010-03-09 16:19**	**G**	**7203417.09**	**7203417.18**	**7203417.27**	**0.3687**	**0.2270**	
Mars	**15011-04-02 03:07**	**G**	**7203805.48**	**7203805.63**	**7203805.77**	**0.1586**	**0.0387**	
Jupiter	**15012-05-07 23:02**	**G**	**7204207.32**	**7204207.46**	**7204207.60**	**0.0539**	**0.0177**	
Mars	**15014-01-17 06:14**	**G**	**7204826.66**	**7204826.76**	**7204826.87**	**0.1951**	**0.1100**	
Earth	**15014-04-13 10:04**	**G**	**7204912.85**	**7204912.92**	**7204913.00**	**0.2651**	**0.2013**	
Moon	**15014-04-13 10:19**	**G**	**7204912.86**	**7204912.93**	**7204913.00**	**0.2658**	**0.2107**	*
Venus	**15015-09-23 11:16**	**G**	**7205440.85**	**7205440.97**	**7205441.08**	**0.3688**	**0.0849**	
Saturn	**15016-06-09 12:28**	**G**	**7205700.96**	**7205701.02**	**7205701.08**	**0.0278**	**0.0253**	
Saturn	**15016-09-06 03:50**	**G**	**7205789.53**	**7205789.66**	**7205789.79**	**0.0277**	**0.0143**	
Saturn	**15016-12-03 18:43**	**G**	**7205878.13**	**7205878.28**	**7205878.44**	**0.0277**	**0.0036**	
Saturn	**15017-03-02 09:21**	**G**	**7205966.75**	**7205966.89**	**7205967.04**	**0.0277**	**0.0070**	
Venus	**15017-04-05 16:33**	**G**	**7206001.09**	**7206001.19**	**7206001.29**	**0.3683**	**0.2262**	
Saturn	**15017-05-29 23:45**	**G**	**7206055.38**	**7206055.49**	**7206055.61**	**0.0277**	**0.0172**	

Saturn 15017-08-26 13:40 G 7206144.05 7206144.07 7206144.10 0.0277 0.0272

Jupiter 15017-12-23 10:19 G 7206262.81 7206262.93 7206263.06 0.0490 0.0284

Jupiter 15018-03-23 00:43 G 7206352.41 7206352.53 7206352.66 0.0488 0.0291

Mars 15020-08-22 09:07 G 7207235.73 7207235.88 7207236.03 0.1586 0.0285

Venus 15021-04-08 05:45 G 7207464.62 7207464.74 7207464.85 0.3688 0.0559

Venus 15022-10-20 15:50 G 7208025.03 7208025.16 7208025.29 0.3682 0.0335

Moon 15023-10-05 11:31 G 7208374.93 7208374.98 7208375.04 0.2685 0.2406

Earth 15023-10-05 12:43 G 7208374.96 7208375.03 7208375.10 0.2683 0.2278 *

Jupiter 15024-02-24 23:31 G 7208517.38 7208517.48 7208517.59 0.0538 0.0368

Jupiter 15024-05-24 17:16 G 7208607.12 7208607.22 7208607.33 0.0541 0.0363

Venus 15026-10-23 00:00 G 7209488.40 7209488.50 7209488.59 0.3689 0.1882

Venus 15028-05-05 15:36 G 7210049.04 7210049.15 7210049.27 0.3682 0.1719

Jupiter 15029-10-11 12:28 G 7210572.95 7210573.02 7210573.10 0.0490 0.0423

Jupiter 15030-01-09 02:38 G 7210662.46 7210662.61 7210662.76 0.0488 0.0146

Mars 15030-01-12 15:21 G 7210666.02 7210666.14 7210666.26 0.1586 0.0947

Saturn 15031-06-18 11:02 G 7211187.84 7211187.96 7211188.07 0.0282 0.0191

Saturn 15031-09-15 02:52 G 7211276.47 7211276.62 7211276.77 0.0282 0.0079

Saturn 15031-12-12 19:12 G 7211365.14 7211365.30 7211365.45 0.0282 0.0036

Saturn 15032-03-10 11:45 G 7211453.86 7211453.99 7211454.12 0.0282 0.0153

Venus 15032-05-07 18:00 G 7211512.19 7211512.25 7211512.30 0.3689 0.3165

Saturn 15032-06-07 04:48 G 7211542.66 7211542.70 7211542.74 0.0282 0.0273

Moon 15034-04-08 21:36 G 7212213.29 7212213.40 7212213.51 0.2651 0.1112

Earth 15034-04-08 22:33 G 7212213.32 7212213.44 7212213.56 0.2649 0.0948 *

Mars 15034-10-05 19:55 G 7212393.23 7212393.33 7212393.43 0.1950 0.1139

Jupiter 15036-03-12 18:14 G 7212917.13 7212917.26 7212917.40 0.0540 0.0177

Moon 15036-10-07 11:31 G 7213125.85 7213125.98 7213126.11 0.2688 0.0377

Earth 15036-10-07 12:14 G 7213125.87 7213126.01 7213126.14 0.2682 0.0246 *

Uranus 15039-02-01 13:40 G 7213973.00 7213973.07 7213973.15 0.0133 0.0116

Uranus 15039-04-30 17:31 G 7214061.14 7214061.23 7214061.34 0.0133 0.0098

Uranus 15039-07-27 21:50 G 7214149.29 7214149.41 7214149.53 0.0133 0.0080

Uranus 15039-10-24 01:55 G 7214237.44 7214237.58 7214237.71 0.0133 0.0062

Uranus 15040-01-20 05:45 G 7214325.60 7214325.74 7214325.88 0.0133 0.0044

Uranus 15040-04-17 09:36 G 7214413.76 7214413.90 7214414.05 0.0133 0.0026

Uranus 15040-07-14 13:40 G 7214501.92 7214502.07 7214502.21 0.0133 0.0008

Uranus 15040-10-10 17:31 G 7214590.08 7214590.23 7214590.38 0.0133 0.0010

Uranus 15041-01-06 21:21 G 7214678.24 7214678.39 7214678.53 0.0133 0.0028

Uranus 15041-04-05 00:57 G 7214766.41 7214766.54 7214766.68 0.0133 0.0045

Mars 15041-05-10 21:21 G 7214802.29 7214802.39 7214802.50 0.1587 0.1168

Uranus 15041-07-02 04:48 G 7214854.58 7214854.70 7214854.83 0.0133 0.0063

Uranus 15041-09-28 08:38 G 7214942.75 7214942.86 7214942.98 0.0134 0.0080

Jupiter 15041-10-28 04:48 G 7214972.55 7214972.70 7214972.86 0.0488 0.0011

Uranus 15041-12-25 12:28 G 7215030.92 7215031.02 7215031.12 0.0134 0.0097

Uranus 15042-03-23 15:50 G 7215119.10 7215119.16 7215119.25 0.0134 0.0115

Uranus 15042-06-19 19:40 G 7215207.31 7215207.32 7215207.35 0.0134 0.0132

Mars 15044-02-26 01:12 G 7215823.43 7215823.55 7215823.68 0.1951 0.0093

Saturn 15046-01-24 05:16 G 7216521.60 7216521.72 7216521.84 0.0277 0.0173

Saturn 15046-04-22 20:24 G 7216610.20 7216610.35 7216610.50 0.0277 0.0065

Saturn 15046-07-20 11:02 G 7216698.81 7216698.96 7216699.11 0.0276 0.0041

Saturn 15046-10-17 01:26 G 7216787.43 7216787.56 7216787.69 0.0276 0.0143

Neptune 15047-01-11 11:02 G 7216873.95 7216873.96 7216874.00 0.0089 0.0088

Saturn 15047-01-13 15:36 G 7216876.08 7216876.15 7216876.22 0.0276 0.0243

Neptune 15047-04-09 13:12 G 7216962.00 7216962.05 7216962.13 0.0089 0.0080

Moon 15047-04-11 18:43 G 7216964.17 7216964.28 7216964.40 0.2657 0.0750

Earth 15047-04-11 18:57 G 7216964.18 7216964.29 7216964.41 0.2650 0.0734 *

Neptune 15047-07-06 15:21 G 7217050.06 7217050.14 7217050.25 0.0089 0.0072

Neptune 15047-10-02 17:45 G 7217138.14 7217138.24 7217138.35 0.0089 0.0064

Neptune 15047-12-29 19:55 G 7217226.21 7217226.33 7217226.45 0.0089 0.0056

Jupiter 15047-12-30 19:55 G 7217227.18 7217227.33 7217227.47 0.0540 0.0009

Neptune 15048-03-26 21:50 G 7217314.29 7217314.41 7217314.55 0.0089 0.0048

Neptune 15048-06-23 00:00 G 7217402.37 7217402.50 7217402.65 0.0089 0.0040

Neptune 15048-09-19 02:09 G 7217490.45 7217490.59 7217490.74 0.0089 0.0032

Neptune 15048-12-16 04:19 G 7217578.53 7217578.68 7217578.83 0.0089 0.0023

Neptune 15049-03-14 06:28 G 7217666.61 7217666.77 7217666.92 0.0089 0.0016

Neptune 15049-06-10 08:24 G 7217754.70 7217754.85 7217755.01 0.0089 0.0008

Neptune 15049-09-06 10:33 G 7217842.78 7217842.94 7217843.09 0.0089 0.0001

Earth 15049-10-10 12:00 G 7217876.91 7217877.00 7217877.10 0.2681 0.1875

Moon 15049-10-10 12:14 G 7217876.93 7217877.01 7217877.10 0.2687 0.1998 *

Neptune 15049-12-03 12:28 G 7217930.87 7217931.02 7217931.18 0.0089 0.0008

Neptune 15050-03-01 14:24 G 7218018.96 7218019.10 7218019.26 0.0089 0.0016

Neptune 15050-05-28 16:33 G 7218107.04 7218107.19 7218107.34 0.0089 0.0024

Neptune 15050-08-24 18:28 G 7218195.13 7218195.27 7218195.42 0.0089 0.0032

Mars 15050-10-01 03:21 G 7218232.50 7218232.64 7218232.78 0.1586 0.0480

Neptune 15050-11-20 20:24 G 7218283.22 7218283.35 7218283.49 0.0089 0.0040

Neptune 15051-02-16 22:19 G 7218371.31 7218371.43 7218371.57 0.0089 0.0047

Neptune 15051-05-16 00:28 G 7218459.40 7218459.52 7218459.64 0.0089 0.0055

Neptune 15051-08-12 02:09 G 7218547.50 7218547.59 7218547.71 0.0089 0.0063

Neptune 15051-11-08 04:04 G 7218635.59 7218635.67 7218635.78 0.0089 0.0070

Neptune 15052-02-04 06:14 G 7218723.69 7218723.76 7218723.84 0.0089 0.0078

Neptune 15052-05-02 07:55 G 7218811.80 7218811.83 7218811.89 0.0089 0.0085

Mars 15053-07-18 06:43 G 7219253.67 7219253.78 7219253.89 0.1951 0.0980

Jupiter 15053-08-16 06:43 G 7219282.64 7219282.78 7219282.93 0.0489 0.0138

Jupiter 15053-11-13 21:36 G 7219372.33 7219372.40 7219372.46 0.0487 0.0440

Pluto 15057-06-10 17:16 G 7220677.18 7220677.22 7220677.27 0.0071 0.0066

Pluto 15057-09-06 17:45 G 7220765.18 7220765.24 7220765.33 0.0071 0.0057

Pluto 15057-12-03 18:28 G 7220853.18 7220853.27 7220853.38 0.0071 0.0048

Pluto 15058-03-01 19:26 G 7220941.20 7220941.31 7220941.42 0.0071 0.0038

Pluto 15058-05-28 19:55 G 7221029.22 7221029.33 7221029.46 0.0071 0.0030

Pluto 15058-08-24 20:38 G 7221117.24 7221117.36 7221117.50 0.0071 0.0020

Pluto 15058-11-20 21:21 G 7221205.26 7221205.39 7221205.53 0.0071 0.0011

Pluto 15059-02-16 22:04 G 7221293.29 7221293.42 7221293.56 0.0072 0.0003

Pluto 15059-05-15 22:48 G 7221381.32 7221381.45 7221381.59 0.0072 0.0009

Pluto 15059-08-11 23:31 G 7221469.36 7221469.48 7221469.61 0.0072 0.0018

Jupiter 15059-10-18 21:21 G 7221537.25 7221537.39 7221537.53 0.0539 0.0175

Pluto 15059-11-08 00:14 G 7221557.39 7221557.51 7221557.64 0.0072 0.0028

Pluto 15060-02-04 00:43 G 7221645.43 7221645.53 7221645.66 0.0072 0.0039

Mars 15060-02-21 09:21 G 7221662.75 7221662.89 7221663.04 0.1586 0.0199

Earth 15060-04-13 15:21 G 7221715.09 7221715.14 7221715.19 0.2651 0.2359

Moon 15060-04-13 15:36 G 7221715.10 7221715.15 7221715.21 0.2657 0.2334 *

Pluto 15060-05-02 01:55 G 7221733.48 7221733.58 7221733.68 0.0072 0.0048

Pluto 15060-07-29 02:24 G 7221821.53 7221821.60 7221821.69 0.0072 0.0058

Pluto 15060-10-25 03:07 G 7221909.59 7221909.63 7221909.68 0.0072 0.0068

Saturn 15060-11-04 10:33 G 7221919.86 7221919.94 7221920.03 0.0282 0.0232

Saturn 15061-02-01 02:24 G 7222008.46 7222008.60 7222008.74 0.0282 0.0121

Venus 15061-03-30 19:55 G 7222066.28 7222066.33 7222066.38 0.3687 0.3289

Saturn 15061-04-30 18:28 G 7222097.11 7222097.27 7222097.43 0.0282 0.0008

Saturn 15061-07-28 11:02 G 7222185.81 7222185.96 7222186.10 0.0282 0.0108

Saturn 15061-10-25 03:50 G 7222274.57 7222274.66 7222274.76 0.0282 0.0227

Jupiter 15065-06-04 08:52 G 7223592.75 7223592.87 7223593.00 0.0489 0.0278

Jupiter 15065-09-01 23:16 G 7223682.35 7223682.47 7223682.60 0.0487 0.0295

Venus 15066-10-14 14:52 G 7224090.02 7224090.12 7224090.22 0.3688 0.1824

Moon 15067-04-07 06:00 G 7224264.70 7224264.75 7224264.80 0.2648 0.2402

Earth 15067-04-07 06:57 G 7224264.74 7224264.79 7224264.85 0.2649 0.2312 *

Venus 15068-04-26 17:16 G 7224650.19 7224650.22 7224650.25 0.3683 0.3534

Mars 15069-07-13 15:50 G 7225093.03 7225093.16 7225093.28 0.1586 0.0851

Moon 15069-10-05 17:16 G 7225177.13 7225177.22 7225177.31 0.2687 0.1966

Earth 15069-10-05 18:14 G 7225177.17 7225177.26 7225177.35 0.2683 0.1863 *

Jupiter 15071-08-06 22:04 G 7225847.32 7225847.42 7225847.53 0.0538 0.0362

Jupiter 15071-11-04 15:50 G 7225937.06 7225937.16 7225937.27 0.0541 0.0370

Venus 15072-04-29 09:21 G 7226113.78 7226113.89 7226114.01 0.3688 0.0412

Venus 15073-11-10 16:04 G 7226674.06 7226674.17 7226674.29 0.3683 0.1680

Mars	15074-04-05 19:55 G	7226820.24	7226820.33	7226820.43	0.1950	0.1238
Saturn	15075-06-13 06:28 G	7227253.67	7227253.77	7227253.88	0.0278	0.0205
Saturn	15075-09-09 21:50 G	7227342.27	7227342.41	7227342.55	0.0277	0.0096
Saturn	15075-12-07 12:43 G	7227430.88	7227431.03	7227431.18	0.0277	0.0011
Saturn	15076-03-05 03:07 G	7227519.50	7227519.63	7227519.77	0.0277	0.0116
Saturn	15076-06-01 17:16 G	7227608.14	7227608.22	7227608.32	0.0277	0.0217
Jupiter	15077-03-23 10:48 G	7227902.87	7227902.95	7227903.02	0.0490	0.0423
Jupiter	15077-06-21 00:43 G	7227992.38	7227992.53	7227992.68	0.0488	0.0146
Venus	15077-11-13 03:50 G	7228137.55	7228137.66	7228137.77	0.3689	0.0969
Mars	15078-12-03 22:19 G	7228523.38	7228523.43	7228523.47	0.1586	0.1497
Venus	15079-05-27 15:36 G	7228698.02	7228698.15	7228698.28	0.3682	0.0292
Moon	15080-04-09 02:52 G	7229015.51	7229015.62	7229015.74	0.2652	0.0690
Earth	15080-04-09 03:50 G	7229015.54	7229015.66	7229015.78	0.2649	0.0595 *
Uranus	15080-05-11 22:19 G	7229048.39	7229048.43	7229048.49	0.0145	0.0138
Uranus	15080-08-08 04:19 G	7229136.59	7229136.68	7229136.79	0.0145	0.0114
Uranus	15080-11-04 10:19 G	7229224.81	7229224.93	7229225.07	0.0145	0.0089
Mars	15080-11-08 22:04 G	7229229.33	7229229.42	7229229.51	0.1587	0.1272
Uranus	15081-01-31 16:33 G	7229313.04	7229313.19	7229313.34	0.0145	0.0063
Uranus	15081-04-29 22:48 G	7229401.29	7229401.45	7229401.61	0.0145	0.0037
Uranus	15081-07-27 05:02 G	7229489.54	7229489.71	7229489.87	0.0145	0.0012
Uranus	15081-10-23 11:16 G	7229577.80	7229577.97	7229578.13	0.0145	0.0015
Uranus	15082-01-19 17:16 G	7229666.07	7229666.22	7229666.39	0.0145	0.0041
Uranus	15082-04-17 23:45 G	7229754.34	7229754.49	7229754.64	0.0145	0.0067
Uranus	15082-07-15 06:14 G	7229842.63	7229842.76	7229842.89	0.0145	0.0093
Moon	15082-10-08 17:16 G	7229928.09	7229928.22	7229928.35	0.2688	0.0161
Earth	15082-10-08 17:45 G	7229928.11	7229928.24	7229928.38	0.2682	0.0200 *
Uranus	15082-10-11 12:28 G	7229930.94	7229931.02	7229931.12	0.0145	0.0120
Venus	15083-05-29 22:04 G	7230161.33	7230161.42	7230161.51	0.3689	0.2286
Jupiter	15083-08-23 16:48 G	7230247.07	7230247.20	7230247.34	0.0540	0.0185
Mars	15083-08-27 01:40 G	7230250.44	7230250.57	7230250.69	0.1951	0.0208

Venus	15084-12-10 15:21 G	7230722.04	7230722.14	7230722.24	0.3682	0.2361
Venus	15088-12-12 16:04 G	7232185.14	7232185.17	7232185.19	0.3690	0.3559
Jupiter	15089-04-09 02:38 G	7232302.46	7232302.61	7232302.77	0.0489	0.0010
Saturn	15090-03-24 13:55 G	7232652.02	7232652.08	7232652.15	0.0282	0.0249
Mars	15090-04-01 03:50 G	7232659.52	7232659.66	7232659.80	0.1586	0.0579
Saturn	15090-06-21 05:31 G	7232740.60	7232740.73	7232740.87	0.0282	0.0140
Saturn	15090-09-17 21:50 G	7232829.25	7232829.41	7232829.56	0.0282	0.0027
Saturn	15090-12-15 14:09 G	7232917.94	7232918.09	7232918.24	0.0282	0.0089
Saturn	15091-03-14 06:57 G	7233006.69	7233006.79	7233006.90	0.0282	0.0208
Mars	15093-01-16 06:43 G	7233680.67	7233680.78	7233680.89	0.1951	0.0885
Moon	15093-04-12 00:00 G	7233766.39	7233766.50	7233766.61	0.2657	0.1007
Earth	15093-04-12 00:14 G	7233766.40	7233766.51	7233766.62	0.2650	0.1076 *
Jupiter	15095-06-11 17:31 G	7234557.08	7234557.23	7234557.38	0.0540	0.0008
Earth	15095-10-11 17:45 G	7234679.17	7234679.24	7234679.30	0.2681	0.2311
Moon	15095-10-11 18:14 G	7234679.19	7234679.26	7234679.32	0.2688	0.2325 *
Mars	15099-08-22 09:50 G	7236089.76	7236089.91	7236090.06	0.1586	0.0102
Jupiter	15101-01-27 05:02 G	7236612.56	7236612.71	7236612.86	0.0489	0.0135
Jupiter	15101-04-26 19:40 G	7236702.26	7236702.32	7236702.39	0.0487	0.0443
Saturn	15104-10-31 08:38 G	7237985.78	7237985.86	7237985.94	0.0277	0.0231
Saturn	15105-01-28 00:00 G	7238074.36	7238074.50	7238074.63	0.0277	0.0122
Saturn	15105-04-26 14:52 G	7238162.96	7238163.12	7238163.27	0.0277	0.0017
Saturn	15105-07-24 05:16 G	7238251.58	7238251.72	7238251.87	0.0276	0.0089
Saturn	15105-10-20 19:40 G	7238340.21	7238340.32	7238340.42	0.0276	0.0191
Jupiter	15107-03-31 18:57 G	7238867.15	7238867.29	7238867.42	0.0539	0.0188
Jupiter	15107-06-29 12:14 G	7238957.00	7238957.01	7238957.02	0.0542	0.0538
Mars	15109-01-12 16:04 G	7239520.04	7239520.17	7239520.30	0.1586	0.0761
Jupiter	15112-11-15 06:57 G	7240922.67	7240922.79	7240922.92	0.0489	0.0278
Jupiter	15113-02-12 21:21 G	7241012.27	7241012.39	7241012.51	0.0487	0.0295
Moon	15113-04-08 11:16 G	7241066.90	7241066.97	7241067.05	0.2648	0.2131
Earth	15113-04-08 12:14 G	7241066.93	7241067.01	7241067.10	0.2649	0.1946 *

Mars 15113-10-05 20:09 G 7241247.25 7241247.34 7241247.43 0.1950 0.1347

Moon 15115-10-07 22:48 G 7241979.35 7241979.45 7241979.56 0.2687 0.1628

Earth 15115-10-07 23:45 G 7241979.38 7241979.49 7241979.60 0.2683 0.1454 *

Venus 15117-11-05 18:14 G 7242739.19 7242739.26 7242739.33 0.3687 0.2827

Mars 15118-06-04 22:33 G 7242950.38 7242950.44 7242950.51 0.1586 0.1408

Jupiter 15119-01-17 20:09 G 7243177.24 7243177.34 7243177.45 0.0539 0.0365

Jupiter 15119-04-17 14:09 G 7243266.99 7243267.09 7243267.19 0.0541 0.0369

Saturn 15119-11-09 05:31 G 7243472.61 7243472.73 7243472.85 0.0282 0.0179

Saturn 15120-02-05 21:21 G 7243561.24 7243561.39 7243561.54 0.0282 0.0068

Saturn 15120-05-04 13:40 G 7243649.92 7243650.07 7243650.23 0.0282 0.0047

Mars 15120-05-10 22:19 G 7243656.36 7243656.43 7243656.51 0.1587 0.1368

Saturn 15120-08-01 06:14 G 7243738.64 7243738.76 7243738.89 0.0282 0.0165

Uranus 15122-11-26 17:16 G 7244586.19 7244586.22 7244586.27 0.0133 0.0127

Uranus 15123-02-22 21:21 G 7244674.31 7244674.39 7244674.48 0.0133 0.0109

Mars 15123-02-26 01:40 G 7244677.45 7244677.57 7244677.70 0.1951 0.0308

Uranus 15123-05-22 01:26 G 7244762.46 7244762.56 7244762.68 0.0133 0.0091

Venus 15123-05-22 13:12 G 7244762.94 7244763.05 7244763.15 0.3688 0.1380

Uranus 15123-08-18 05:31 G 7244850.61 7244850.73 7244850.86 0.0133 0.0073

Uranus 15123-11-14 09:36 G 7244938.76 7244938.90 7244939.04 0.0133 0.0055

Uranus 15124-02-10 13:26 G 7245026.92 7245027.06 7245027.21 0.0133 0.0037

Uranus 15124-05-08 17:16 G 7245115.08 7245115.22 7245115.37 0.0133 0.0020

Uranus 15124-08-04 21:21 G 7245203.24 7245203.39 7245203.54 0.0133 0.0001

Jupiter 15124-09-03 09:21 G 7245232.81 7245232.89 7245232.97 0.0490 0.0416

Uranus 15124-11-01 01:12 G 7245291.40 7245291.55 7245291.70 0.0133 0.0017

Jupiter 15124-12-01 23:16 G 7245322.32 7245322.47 7245322.62 0.0488 0.0151

Venus 15124-12-02 16:33 G 7245323.12 7245323.19 7245323.27 0.3683 0.2979

Uranus 15125-01-28 05:02 G 7245379.57 7245379.71 7245379.85 0.0133 0.0034

Uranus 15125-04-26 08:52 G 7245467.73 7245467.87 7245468.00 0.0133 0.0052

Uranus 15125-07-23 12:28 G 7245555.90 7245556.02 7245556.15 0.0134 0.0069

Uranus 15125-10-19 16:19 G 7245644.07 7245644.18 7245644.29 0.0134 0.0087

Uranus 15126-01-15 20:09 G 7245732.25 7245732.34 7245732.43 0.0134 0.0104

Moon 15126-04-11 08:24 G 7245817.73 7245817.85 7245817.97 0.2654 0.0319

Earth 15126-04-11 08:52 G 7245817.75 7245817.87 7245818.00 0.2650 0.0258 *

Uranus 15126-04-13 23:45 G 7245820.44 7245820.49 7245820.55 0.0134 0.0121

Neptune 15128-10-07 11:31 G 7246727.97 7246727.98 7246728.02 0.0088 0.0087

Moon 15128-10-09 23:16 G 7246730.34 7246730.47 7246730.60 0.2688 0.0581

Earth 15128-10-09 23:31 G 7246730.35 7246730.48 7246730.61 0.2682 0.0617 *

Venus 15128-12-05 07:40 G 7246786.71 7246786.82 7246786.94 0.3688 0.0066

Neptune 15129-01-03 13:55 G 7246816.02 7246816.08 7246816.15 0.0088 0.0079

Neptune 15129-04-01 15:50 G 7246904.08 7246904.16 7246904.27 0.0088 0.0072

Neptune 15129-06-28 18:00 G 7246992.16 7246992.25 7246992.37 0.0088 0.0064

Neptune 15129-09-24 20:24 G 7247080.23 7247080.35 7247080.48 0.0088 0.0056

Mars 15129-10-01 04:04 G 7247086.54 7247086.67 7247086.81 0.1586 0.0678

Neptune 15129-12-21 22:19 G 7247168.31 7247168.43 7247168.58 0.0088 0.0049

Neptune 15130-03-20 00:28 G 7247256.39 7247256.52 7247256.68 0.0088 0.0041

Neptune 15130-06-16 02:52 G 7247344.48 7247344.62 7247344.77 0.0088 0.0033

Venus 15130-06-18 15:36 G 7247347.03 7247347.15 7247347.28 0.3683 0.1094

Neptune 15130-09-12 05:02 G 7247432.56 7247432.71 7247432.87 0.0088 0.0025

Neptune 15130-12-09 07:12 G 7247520.65 7247520.80 7247520.96 0.0088 0.0018

Jupiter 15131-02-03 15:21 G 7247577.01 7247577.14 7247577.28 0.0540 0.0189

Neptune 15131-03-07 09:36 G 7247608.74 7247608.90 7247609.06 0.0088 0.0010

Neptune 15131-06-03 11:45 G 7247696.83 7247696.99 7247697.15 0.0088 0.0002

Neptune 15131-08-30 13:55 G 7247784.92 7247785.08 7247785.25 0.0088 0.0007

Neptune 15131-11-26 16:19 G 7247873.02 7247873.18 7247873.34 0.0088 0.0014

Neptune 15132-02-22 18:28 G 7247961.11 7247961.27 7247961.43 0.0088 0.0022

Neptune 15132-05-20 20:38 G 7248049.21 7248049.36 7248049.52 0.0088 0.0030

Mars 15132-07-18 06:57 G 7248107.67 7248107.79 7248107.90 0.1951 0.0774

Neptune 15132-08-16 22:48 G 7248137.31 7248137.45 7248137.61 0.0088 0.0038

Neptune 15132-11-13 01:12 G 7248225.42 7248225.55 7248225.70 0.0088 0.0046

Neptune 15133-02-09 03:36 G 7248313.52 7248313.65 7248313.78 0.0088 0.0054

Neptune 15133-05-08 05:45 G 7248401.63 7248401.74 7248401.86 0.0088 0.0062

Neptune 15133-08-04 08:09 G 7248489.75 7248489.84 7248489.94 0.0088 0.0070

Neptune 15133-10-31 10:04 G 7248577.87 7248577.92 7248578.02 0.0088 0.0079

Neptune 15134-01-27 12:28 G 7248666.02 7248666.02 7248666.07 0.0088 0.0087

Saturn 15134-03-20 09:36 G 7248717.86 7248717.90 7248717.94 0.0278 0.0265

Saturn 15134-06-17 00:57 G 7248806.41 7248806.54 7248806.67 0.0277 0.0155

Venus 15134-06-21 02:09 G 7248810.48 7248810.59 7248810.69 0.3689 0.1387

Saturn 15134-09-13 16:04 G 7248895.02 7248895.17 7248895.32 0.0277 0.0047

Saturn 15134-12-11 06:43 G 7248983.63 7248983.78 7248983.93 0.0277 0.0059

Saturn 15135-03-09 21:07 G 7249072.26 7249072.38 7249072.50 0.0277 0.0161

Saturn 15135-06-06 11:02 G 7249160.92 7249160.96 7249161.01 0.0277 0.0262

Venus 15136-01-02 15:07 G 7249371.01 7249371.13 7249371.26 0.3682 0.0914

Jupiter 15136-09-20 00:43 G 7249632.37 7249632.53 7249632.68 0.0489 0.0002

Mars 15139-02-21 10:19 G 7250516.78 7250516.93 7250517.08 0.1586 0.0027

Moon 15139-04-14 05:16 G 7250568.62 7250568.72 7250568.82 0.2657 0.1435

Earth 15139-04-14 05:31 G 7250568.63 7250568.73 7250568.83 0.2650 0.1423 *

Venus 15140-01-04 20:09 G 7250834.27 7250834.34 7250834.42 0.3689 0.2683

Venus 15141-07-18 15:07 G 7251395.06 7251395.13 7251395.21 0.3681 0.3007

Mars 15141-12-08 12:00 G 7251537.97 7251538.00 7251538.03 0.1950 0.1870

Jupiter 15142-11-22 16:19 G 7251887.03 7251887.18 7251887.32 0.0539 0.0009

Pluto 15143-01-30 20:52 G 7251956.28 7251956.37 7251956.49 0.0073 0.0061

Pluto 15143-04-28 23:16 G 7252044.33 7252044.47 7252044.63 0.0073 0.0046

Pluto 15143-07-26 01:55 G 7252132.41 7252132.58 7252132.76 0.0073 0.0031

Pluto 15143-10-22 04:04 G 7252220.49 7252220.67 7252220.87 0.0073 0.0016

Pluto 15144-01-18 06:43 G 7252308.58 7252308.78 7252308.97 0.0073 0.0002

Pluto 15144-04-15 08:52 G 7252396.68 7252396.87 7252397.06 0.0073 0.0013

Pluto 15144-07-12 11:02 G 7252484.79 7252484.96 7252485.15 0.0073 0.0028

Pluto 15144-10-08 13:12 G 7252572.91 7252573.05 7252573.22 0.0073 0.0042

Pluto 15145-01-04 15:36 G 7252661.04 7252661.15 7252661.28 0.0073 0.0056

Pluto 15145-04-02 18:00 G 7252749.20 7252749.25 7252749.30 0.0072 0.0070

Jupiter 15148-07-09 02:52 G 7253942.47 7253942.62 7253942.76 0.0489 0.0141

Mars 15148-07-13 16:33 G 7253947.05 7253947.19 7253947.32 0.1586 0.0668

Jupiter 15148-10-06 17:31 G 7254032.16 7254032.23 7254032.30 0.0487 0.0438

Saturn 15149-03-28 08:38 G 7254204.76 7254204.86 7254204.98 0.0282 0.0198

Saturn 15149-06-25 00:28 G 7254293.38 7254293.52 7254293.67 0.0282 0.0087

Saturn 15149-09-21 16:48 G 7254382.05 7254382.20 7254382.36 0.0282 0.0028

Saturn 15149-12-19 09:21 G 7254470.76 7254470.89 7254471.03 0.0282 0.0145

Saturn 15150-03-18 02:24 G 7254559.55 7254559.60 7254559.65 0.0282 0.0264

Mars 15153-04-05 20:09 G 7255674.26 7255674.34 7255674.43 0.1950 0.1450

Jupiter 15154-09-10 16:33 G 7256197.05 7256197.19 7256197.32 0.0539 0.0196

Jupiter 15154-12-09 09:50 G 7256286.89 7256286.91 7256286.94 0.0541 0.0529

Mars 15157-12-03 22:48 G 7257377.37 7257377.45 7257377.53 0.1586 0.1321

Moon 15159-04-09 16:33 G 7257869.10 7257869.19 7257869.29 0.2649 0.1648

Earth 15159-04-09 17:31 G 7257869.14 7257869.23 7257869.33 0.2649 0.1580 *

Mars 15159-11-09 22:33 G 7258083.39 7258083.44 7258083.50 0.1587 0.1466

Jupiter 15160-04-27 05:16 G 7258252.59 7258252.72 7258252.84 0.0490 0.0276

Jupiter 15160-07-25 19:26 G 7258342.19 7258342.31 7258342.44 0.0488 0.0297

Moon 15161-10-08 04:33 G 7258781.57 7258781.69 7258781.81 0.2687 0.1108

Earth 15161-10-08 05:16 G 7258781.60 7258781.72 7258781.85 0.2682 0.1048 *

Mars 15162-08-27 01:40 G 7259104.45 7259104.57 7259104.70 0.1951 0.0409

Saturn 15163-11-04 03:21 G 7259538.52 7259538.64 7259538.76 0.0277 0.0179

Saturn 15164-01-31 18:28 G 7259627.12 7259627.27 7259627.42 0.0277 0.0071

Saturn 15164-04-29 09:07 G 7259715.73 7259715.88 7259716.03 0.0277 0.0035

Uranus 15164-06-02 06:14 G 7259749.70 7259749.76 7259749.85 0.0145 0.0130

Saturn 15164-07-26 23:31 G 7259804.35 7259804.48 7259804.61 0.0276 0.0138

Uranus 15164-08-29 12:28 G 7259837.91 7259838.02 7259838.14 0.0145 0.0104

Saturn 15164-10-23 13:40 G 7259893.00 7259893.07 7259893.15 0.0276 0.0238

Uranus 15164-11-25 18:28 G 7259926.14 7259926.27 7259926.41 0.0145 0.0079

Uranus 15165-02-22 00:43 G 7260014.38 7260014.53 7260014.68 0.0145 0.0054

Uranus 15165-05-21 06:43 G 7260102.62 7260102.78 7260102.95 0.0145 0.0028

Uranus 15165-08-17 12:57 G 7260190.88 7260191.04 7260191.21 0.0145 0.0003

Uranus 15165-11-13 19:12 G 7260279.14 7260279.30 7260279.47 0.0145 0.0024

Uranus 15166-02-10 01:26 G 7260367.41 7260367.56 7260367.72 0.0145 0.0050

Uranus 15166-05-09 07:55 G 7260455.69 7260455.83 7260455.97 0.0145 0.0076

Jupiter 15166-06-29 17:31 G 7260507.13 7260507.23 7260507.34 0.0539 0.0379

Uranus 15166-08-05 14:09 G 7260543.98 7260544.09 7260544.21 0.0145 0.0103

Jupiter 15166-09-27 11:31 G 7260596.88 7260596.98 7260597.09 0.0541 0.0356

Uranus 15166-11-01 20:38 G 7260632.29 7260632.36 7260632.44 0.0145 0.0129

Mars 15169-04-01 04:33 G 7261513.56 7261513.69 7261513.82 0.1586 0.0771

Mars 15172-01-17 07:12 G 7262534.68 7262534.80 7262534.91 0.1951 0.0664

Jupiter 15172-02-14 07:26 G 7262562.73 7262562.81 7262562.89 0.0490 0.0416

Moon 15172-04-11 13:40 G 7262619.95 7262620.07 7262620.19 0.2655 0.0009

Earth 15172-04-11 14:09 G 7262619.97 7262620.09 7262620.22 0.2650 0.0136 *

Jupiter 15172-05-13 21:21 G 7262652.24 7262652.39 7262652.54 0.0488 0.0151

Venus 15174-06-12 16:33 G 7263412.11 7263412.19 7263412.28 0.3688 0.2376

Moon 15174-10-11 05:02 G 7263532.59 7263532.71 7263532.83 0.2688 0.1013

Earth 15174-10-11 05:02 G 7263532.59 7263532.71 7263532.83 0.2682 0.1037 *

Jupiter 15178-07-16 13:26 G 7264906.92 7264907.06 7264907.19 0.0541 0.0185

Saturn 15178-08-15 08:52 G 7264936.79 7264936.87 7264936.95 0.0282 0.0236

Mars 15178-08-22 10:33 G 7264943.79 7264943.94 7264944.09 0.1586 0.0098

Saturn 15178-11-12 00:28 G 7265025.38 7265025.52 7265025.66 0.0282 0.0126

Saturn 15179-02-08 16:33 G 7265114.03 7265114.19 7265114.35 0.0282 0.0013

Saturn 15179-05-08 08:52 G 7265202.73 7265202.87 7265203.02 0.0282 0.0103

Saturn 15179-08-05 01:40 G 7265291.48 7265291.57 7265291.67 0.0282 0.0221

Venus 15179-12-27 11:16 G 7265435.86 7265435.97 7265436.09 0.3688 0.0949

Mars 15181-06-08 12:14 G 7265964.96 7265965.01 7265965.06 0.1950 0.1760

Venus 15181-07-09 16:04 G 7265996.07 7265996.17 7265996.26 0.3683 0.2425

Jupiter 15184-03-01 23:16 G 7266962.32 7266962.47 7266962.63 0.0488 0.0008

Moon 15185-04-14 10:33 G 7267370.85 7267370.94 7267371.03 0.2657 0.1770

Earth 15185-04-14 10:33 G 7267370.85 7267370.94 7267371.03 0.2650 0.1769 *

Venus	15185-07-12 06:00 G	7267459.64	7267459.75	7267459.86	0.3689	0.0459
Venus	15187-01-23 15:07 G	7268020.00	7268020.13	7268020.26	0.3682	0.0507
Mars	15188-01-12 16:48 G	7268374.06	7268374.20	7268374.34	0.1586	0.0572
Jupiter	15190-05-04 14:38 G	7269216.97	7269217.11	7269217.26	0.0539	0.0010
Venus	15191-01-26 00:14 G	7269483.41	7269483.51	7269483.61	0.3689	0.1788
Venus	15192-08-08 14:52 G	7270044.00	7270044.12	7270044.24	0.3682	0.1523
Mars	15192-10-04 20:24 G	7270101.28	7270101.35	7270101.42	0.1950	0.1553
Saturn	15193-03-23 03:50 G	7270270.57	7270270.66	7270270.77	0.0277	0.0215
Saturn	15193-06-19 19:12 G	7270359.16	7270359.30	7270359.45	0.0277	0.0105
Saturn	15193-09-16 10:19 G	7270447.77	7270447.93	7270448.08	0.0277	0.0006
Saturn	15193-12-14 00:43 G	7270536.40	7270536.53	7270536.67	0.0277	0.0106
Saturn	15194-03-12 14:52 G	7270625.03	7270625.12	7270625.22	0.0277	0.0208
Earth	15194-10-06 11:31 G	7270832.97	7270832.98	7270833.00	0.2683	0.2647
Jupiter	15195-12-20 00:57 G	7271272.39	7271272.54	7271272.68	0.0489	0.0141
Jupiter	15196-03-18 15:21 G	7271362.08	7271362.14	7271362.21	0.0487	0.0438
Venus	15196-08-10 18:14 G	7271507.20	7271507.26	7271507.32	0.3690	0.3082
Mars	15197-06-03 23:16 G	7271804.38	7271804.47	7271804.56	0.1586	0.1224
Venus	15198-02-22 15:07 G	7272068.12	7272068.13	7272068.14	0.3681	0.3666
Mars	15199-05-10 23:02 G	7272510.45	7272510.46	7272510.48	0.1587	0.1569
Jupiter	15202-02-20 15:21 G	7273527.00	7273527.14	7273527.28	0.0539	0.0184
Mars	15202-02-25 01:55 G	7273531.46	7273531.58	7273531.70	0.1951	0.0515
Jupiter	15202-05-21 08:38 G	7273616.86	7273616.86	7273616.87	0.0541	0.0540
Moon	15205-04-09 22:04 G	7274671.31	7274671.42	7274671.52	0.2650	0.1408
Earth	15205-04-09 22:48 G	7274671.34	7274671.45	7274671.56	0.2649	0.1218 *
Uranus	15206-12-17 00:57 G	7275287.49	7275287.54	7275287.62	0.0133	0.0121
Uranus	15207-03-15 05:02 G	7275375.63	7275375.71	7275375.82	0.0133	0.0102
Uranus	15207-06-11 09:21 G	7275463.77	7275463.89	7275464.01	0.0133	0.0084
Uranus	15207-09-07 13:26 G	7275551.93	7275552.06	7275552.19	0.0133	0.0066
Jupiter	15207-10-08 03:07 G	7275582.50	7275582.63	7275582.75	0.0490	0.0281
Moon	15207-10-09 10:19 G	7275583.80	7275583.93	7275584.05	0.2687	0.0804

Earth 15207-10-09 11:02 G 7275583.83 7275583.96 7275584.09 0.2682 0.0631 *

Uranus 15207-12-04 17:16 G 7275640.08 7275640.22 7275640.36 0.0133 0.0048

Saturn 15208-01-02 11:45 G 7275668.93 7275668.99 7275669.06 0.0282 0.0256

Jupiter 15208-01-05 17:16 G 7275672.10 7275672.22 7275672.35 0.0488 0.0292

Uranus 15208-03-01 21:07 G 7275728.24 7275728.38 7275728.53 0.0133 0.0030

Saturn 15208-03-31 03:21 G 7275757.51 7275757.64 7275757.78 0.0282 0.0146

Uranus 15208-05-29 01:12 G 7275816.40 7275816.55 7275816.70 0.0133 0.0012

Saturn 15208-06-27 19:26 G 7275846.16 7275846.31 7275846.47 0.0282 0.0034

Uranus 15208-08-25 05:02 G 7275904.56 7275904.71 7275904.86 0.0133 0.0006

Saturn 15208-09-24 11:45 G 7275934.84 7275934.99 7275935.14 0.0282 0.0082

Mars 15208-09-30 05:02 G 7275940.58 7275940.71 7275940.83 0.1586 0.0873

Uranus 15208-11-21 08:52 G 7275992.73 7275992.87 7275993.02 0.0133 0.0024

Saturn 15208-12-22 04:33 G 7276023.58 7276023.69 7276023.80 0.0282 0.0200

Uranus 15209-02-17 12:43 G 7276080.89 7276081.03 7276081.17 0.0133 0.0041

Uranus 15209-05-16 16:33 G 7276169.06 7276169.19 7276169.32 0.0133 0.0059

Uranus 15209-08-12 20:24 G 7276257.23 7276257.35 7276257.47 0.0133 0.0076

Uranus 15209-11-09 00:00 G 7276345.40 7276345.50 7276345.61 0.0134 0.0093

Uranus 15210-02-05 03:36 G 7276433.58 7276433.65 7276433.74 0.0134 0.0111

Uranus 15210-05-04 07:26 G 7276521.78 7276521.81 7276521.86 0.0134 0.0127

Mars 15211-07-18 07:12 G 7276961.68 7276961.80 7276961.92 0.1951 0.0561

Neptune 15211-10-09 09:36 G 7277044.88 7277044.90 7277044.93 0.0089 0.0088

Neptune 15212-01-05 11:45 G 7277132.93 7277132.99 7277133.06 0.0089 0.0080

Neptune 15212-04-02 13:40 G 7277220.99 7277221.07 7277221.18 0.0089 0.0072

Neptune 15212-06-29 15:50 G 7277309.07 7277309.16 7277309.28 0.0089 0.0064

Neptune 15212-09-25 18:00 G 7277397.14 7277397.25 7277397.38 0.0089 0.0056

Neptune 15212-12-22 20:09 G 7277485.22 7277485.34 7277485.48 0.0089 0.0047

Neptune 15213-03-20 22:19 G 7277573.30 7277573.43 7277573.58 0.0089 0.0039

Neptune 15213-06-17 00:28 G 7277661.38 7277661.52 7277661.67 0.0089 0.0031

Neptune 15213-09-13 02:38 G 7277749.46 7277749.61 7277749.76 0.0089 0.0023

Jupiter 15213-12-09 15:21 G 7277837.04 7277837.14 7277837.24 0.0538 0.0386

Neptune 15213-12-10 04:48 G 7277837.55 7277837.70 7277837.85 0.0089 0.0015

Neptune 15214-03-08 06:43 G 7277925.63 7277925.78 7277925.94 0.0089 0.0008

Jupiter 15214-03-09 09:21 G 7277926.78 7277926.89 7277927.00 0.0541 0.0348

Neptune 15214-06-04 08:52 G 7278013.72 7278013.87 7278014.02 0.0089 0.0001

Neptune 15214-08-31 10:48 G 7278101.80 7278101.95 7278102.11 0.0089 0.0009

Neptune 15214-11-27 12:57 G 7278189.89 7278190.04 7278190.19 0.0089 0.0017

Neptune 15215-02-23 14:52 G 7278277.98 7278278.12 7278278.27 0.0089 0.0025

Neptune 15215-05-22 16:48 G 7278366.07 7278366.20 7278366.35 0.0089 0.0033

Neptune 15215-08-18 18:43 G 7278454.16 7278454.28 7278454.43 0.0089 0.0041

Neptune 15215-11-14 20:52 G 7278542.25 7278542.37 7278542.50 0.0089 0.0048

Neptune 15216-02-10 22:48 G 7278630.34 7278630.45 7278630.58 0.0089 0.0056

Neptune 15216-05-09 00:43 G 7278718.43 7278718.53 7278718.65 0.0089 0.0063

Neptune 15216-08-05 02:52 G 7278806.53 7278806.62 7278806.71 0.0089 0.0071

Neptune 15216-11-01 04:33 G 7278894.63 7278894.69 7278894.77 0.0089 0.0079

Neptune 15217-01-28 06:28 G 7278982.75 7278982.77 7278982.82 0.0089 0.0086

Mars 15218-02-20 10:48 G 7279370.80 7279370.95 7279371.10 0.1586 0.0190

Moon 15218-04-12 18:57 G 7279422.17 7279422.29 7279422.41 0.2656 0.0458

Earth 15218-04-12 19:26 G 7279422.19 7279422.31 7279422.43 0.2650 0.0478 *

Jupiter 15219-07-27 05:31 G 7279892.66 7279892.73 7279892.82 0.0490 0.0416

Jupiter 15219-10-24 19:26 G 7279982.16 7279982.31 7279982.46 0.0488 0.0152

Earth 15220-10-11 10:33 G 7280334.83 7280334.94 7280335.06 0.2681 0.1464

Moon 15220-10-11 10:48 G 7280334.84 7280334.95 7280335.06 0.2689 0.1536 *

Mars 15220-12-07 12:14 G 7280391.94 7280392.01 7280392.07 0.1951 0.1663

Saturn 15222-08-10 06:28 G 7281002.70 7281002.77 7281002.86 0.0277 0.0236

Saturn 15222-11-06 21:50 G 7281091.28 7281091.41 7281091.55 0.0277 0.0127

Saturn 15223-02-03 12:57 G 7281179.89 7281180.04 7281180.19 0.0277 0.0020

Saturn 15223-05-03 03:36 G 7281268.50 7281268.65 7281268.79 0.0277 0.0084

Saturn 15223-07-30 17:45 G 7281357.13 7281357.24 7281357.35 0.0276 0.0186

Venus 15225-07-03 19:55 G 7282061.29 7282061.33 7282061.37 0.3687 0.3402

Jupiter 15225-12-26 10:48 G 7282236.81 7282236.95 7282237.09 0.0540 0.0171

Mars 15227-07-13 17:02 G 7282801.07 7282801.21 7282801.36 0.1586 0.0483

Venus 15231-01-17 14:52 G 7284085.02 7284085.12 7284085.22 0.3688 0.1935

Earth 15231-04-15 15:50 G 7284173.09 7284173.16 7284173.23 0.2651 0.2118

Moon 15231-04-15 16:04 G 7284173.10 7284173.17 7284173.24 0.2657 0.2132 *

Jupiter 15231-08-12 21:21 G 7284292.24 7284292.39 7284292.55 0.0488 0.0014

Mars 15232-04-04 20:24 G 7284528.29 7284528.35 7284528.42 0.1950 0.1658

Venus 15236-08-02 09:36 G 7286108.79 7286108.90 7286109.02 0.3688 0.0512

Mars 15236-12-02 23:31 G 7286231.38 7286231.48 7286231.59 0.1586 0.1134

Saturn 15237-08-18 03:21 G 7286489.53 7286489.64 7286489.76 0.0282 0.0185

Jupiter 15237-10-14 12:28 G 7286546.87 7286547.02 7286547.17 0.0540 0.0004

Saturn 15237-11-14 19:12 G 7286578.16 7286578.30 7286578.46 0.0282 0.0074

Saturn 15238-02-11 11:31 G 7286666.83 7286666.98 7286667.14 0.0282 0.0041

Venus 15238-02-13 15:36 G 7286669.03 7286669.15 7286669.26 0.3683 0.1849

Earth 15238-04-08 07:12 G 7286722.78 7286722.80 7286722.83 0.2648 0.2590

Saturn 15238-05-11 04:04 G 7286755.54 7286755.67 7286755.80 0.0282 0.0158

Saturn 15238-08-07 21:07 G 7286844.36 7286844.38 7286844.41 0.0282 0.0277

Moon 15240-10-06 16:04 G 7287635.12 7287635.17 7287635.22 0.2686 0.2463

Earth 15240-10-06 17:02 G 7287635.14 7287635.21 7287635.29 0.2683 0.2240 *

Mars 15241-08-26 02:09 G 7287958.48 7287958.59 7287958.71 0.1951 0.0630

Venus 15242-02-16 04:04 G 7288132.56 7288132.67 7288132.78 0.3689 0.0870

Jupiter 15243-05-31 23:31 G 7288602.33 7288602.48 7288602.63 0.0489 0.0133

Jupiter 15243-08-29 14:09 G 7288692.03 7288692.09 7288692.15 0.0487 0.0444

Venus 15243-08-30 14:52 G 7288692.98 7288693.12 7288693.25 0.3682 0.0168

Venus 15247-09-01 22:19 G 7290156.34 7290156.43 7290156.52 0.3689 0.2195

Mars 15248-03-31 05:16 G 7290367.60 7290367.72 7290367.84 0.1586 0.0971

Uranus 15248-06-22 14:09 G 7290451.01 7290451.09 7290451.18 0.0145 0.0122

Uranus 15248-09-18 20:09 G 7290539.22 7290539.34 7290539.46 0.0145 0.0097

Uranus 15248-12-16 02:09 G 7290627.45 7290627.59 7290627.74 0.0145 0.0071

Uranus 15249-03-14 08:09 G 7290715.69 7290715.84 7290716.01 0.0145 0.0046

Venus 15249-03-15 14:38 G 7290717.00 7290717.11 7290717.21 0.3682 0.2164

Uranus 15249-06-10 14:24 G 7290803.94 7290804.10 7290804.27 0.0145 0.0021

Jupiter 15249-08-02 13:55 G 7290856.94 7290857.08 7290857.21 0.0539 0.0181

Uranus 15249-09-06 20:38 G 7290892.20 7290892.36 7290892.53 0.0145 0.0006

Uranus 15249-12-04 02:52 G 7290980.46 7290980.62 7290980.79 0.0145 0.0032

Uranus 15250-03-02 09:07 G 7291068.73 7291068.88 7291069.04 0.0145 0.0058

Uranus 15250-05-29 15:36 G 7291157.01 7291157.15 7291157.29 0.0145 0.0084

Uranus 15250-08-25 21:50 G 7291245.31 7291245.41 7291245.52 0.0145 0.0111

Uranus 15250-11-22 04:04 G 7291333.64 7291333.67 7291333.74 0.0145 0.0138

Mars 15251-01-16 07:26 G 7291388.68 7291388.81 7291388.93 0.1951 0.0460

Moon 15251-04-11 03:21 G 7291473.52 7291473.64 7291473.75 0.2652 0.0901

Earth 15251-04-11 04:04 G 7291473.55 7291473.67 7291473.79 0.2649 0.0859 *

Saturn 15251-12-28 06:43 G 7291734.77 7291734.78 7291734.81 0.0277 0.0275

Saturn 15252-03-25 22:19 G 7291823.31 7291823.43 7291823.56 0.0277 0.0164

Saturn 15252-06-22 13:40 G 7291911.92 7291912.07 7291912.22 0.0277 0.0056

Saturn 15252-09-19 04:19 G 7292000.53 7292000.68 7292000.83 0.0277 0.0050

Saturn 15252-12-16 18:43 G 7292089.16 7292089.28 7292089.41 0.0277 0.0153

Saturn 15253-03-15 08:52 G 7292177.81 7292177.87 7292177.93 0.0277 0.0253

Venus 15253-03-17 16:19 G 7292180.15 7292180.18 7292180.22 0.3690 0.3476

Moon 15253-10-09 16:04 G 7292386.04 7292386.17 7292386.30 0.2688 0.0206

Earth 15253-10-09 16:33 G 7292386.06 7292386.19 7292386.32 0.2682 0.0210 *

Jupiter 15255-03-20 01:12 G 7292912.43 7292912.55 7292912.68 0.0490 0.0280

Jupiter 15255-06-17 15:21 G 7293002.02 7293002.14 7293002.27 0.0488 0.0292

Mars 15257-08-21 11:16 G 7293797.83 7293797.97 7293798.12 0.1586 0.0289

Mars 15260-06-07 12:28 G 7294818.95 7294819.02 7294819.10 0.1951 0.1543

Jupiter 15261-05-21 14:24 G 7295167.00 7295167.10 7295167.21 0.0538 0.0371

Jupiter 15261-08-19 08:24 G 7295256.74 7295256.85 7295256.96 0.0540 0.0362

Moon 15264-04-13 00:14 G 7296224.39 7296224.51 7296224.63 0.2656 0.0711

Earth 15264-04-13 00:43 G 7296224.41 7296224.53 7296224.65 0.2650 0.0826 *

Earth 15266-10-12 16:19 G 7297137.08 7297137.18 7297137.27 0.2681 0.1889

Moon 15266-10-12 16:33 G 7297137.09 7297137.19 7297137.28 0.2688 0.1859 *

Saturn 15267-01-05 06:00 G 7297221.65 7297221.75 7297221.86 0.0282 0.0207

Jupiter 15267-01-06 03:36 G 7297222.57 7297222.65 7297222.73 0.0490 0.0419

Mars 15267-01-11 17:31 G 7297228.08 7297228.23 7297228.37 0.1586 0.0387

Saturn 15267-04-03 21:50 G 7297310.27 7297310.41 7297310.56 0.0282 0.0096

Jupiter 15267-04-05 17:16 G 7297312.07 7297312.22 7297312.37 0.0488 0.0149

Saturn 15267-07-01 13:55 G 7297398.93 7297399.08 7297399.24 0.0282 0.0020

Saturn 15267-09-28 06:28 G 7297487.64 7297487.77 7297487.91 0.0282 0.0134

Saturn 15267-12-25 23:31 G 7297576.41 7297576.48 7297576.55 0.0282 0.0253

Mars 15271-10-04 20:38 G 7298955.31 7298955.36 7298955.41 0.1950 0.1764

Jupiter 15273-06-07 08:38 G 7299566.72 7299566.86 7299567.00 0.0540 0.0166

Mars 15276-06-03 00:00 G 7300658.39 7300658.50 7300658.61 0.1586 0.1045

Earth 15277-04-15 21:07 G 7300975.33 7300975.38 7300975.42 0.2651 0.2458

Moon 15277-04-15 21:21 G 7300975.36 7300975.39 7300975.42 0.2657 0.2562 *

Jupiter 15279-01-22 19:40 G 7301622.17 7301622.32 7301622.48 0.0489 0.0011

Mars 15281-02-24 02:09 G 7302385.48 7302385.59 7302385.71 0.1951 0.0716

Saturn 15281-08-13 01:12 G 7302555.44 7302555.55 7302555.67 0.0277 0.0184

Saturn 15281-11-09 16:19 G 7302644.04 7302644.18 7302644.33 0.0277 0.0077

Saturn 15282-02-06 07:12 G 7302732.65 7302732.80 7302732.95 0.0277 0.0029

Venus 15282-02-07 18:14 G 7302734.20 7302734.26 7302734.33 0.3687 0.2954

Saturn 15282-05-05 21:36 G 7302821.27 7302821.40 7302821.54 0.0276 0.0133

Saturn 15282-08-02 11:45 G 7302909.92 7302909.99 7302910.07 0.0276 0.0233

Moon 15284-04-08 11:31 G 7303524.93 7303524.98 7303525.05 0.2646 0.2297

Earth 15284-04-08 12:28 G 7303524.96 7303525.02 7303525.09 0.2648 0.2225 *

Jupiter 15285-03-26 10:04 G 7303876.77 7303876.92 7303877.06 0.0540 0.0020

Moon 15286-10-07 21:36 G 7304437.31 7304437.40 7304437.49 0.2685 0.1909

Earth 15286-10-07 22:48 G 7304437.35 7304437.45 7304437.54 0.2683 0.1837 *

Venus 15287-08-24 13:12 G 7304757.95 7304758.05 7304758.16 0.3688 0.1490

Mars 15287-09-30 05:45 G 7304794.63 7304794.74 7304794.85 0.1586 0.1066

Venus 15289-03-06 16:04 G 7305318.10 7305318.17 7305318.23 0.3683 0.3136

Mars 15290-07-17 07:40 G 7305815.70 7305815.82 7305815.94 0.1951 0.0337

Uranus 15290-10-10 04:48 G 7305900.69 7305900.70 7305900.74 0.0133 0.0131

Jupiter 15290-11-10 21:50 G 7305932.26 7305932.41 7305932.56 0.0489 0.0131

Uranus 15291-01-06 09:07 G 7305988.80 7305988.88 7305988.96 0.0133 0.0112

Jupiter 15291-02-08 12:14 G 7306021.95 7306022.01 7306022.07 0.0487 0.0446

Uranus 15291-04-04 12:57 G 7306076.95 7306077.04 7306077.16 0.0133 0.0094

Uranus 15291-07-01 17:02 G 7306165.10 7306165.21 7306165.34 0.0133 0.0076

Uranus 15291-09-27 21:07 G 7306253.25 7306253.38 7306253.52 0.0133 0.0058

Uranus 15291-12-25 01:12 G 7306341.41 7306341.55 7306341.69 0.0133 0.0040

Uranus 15292-03-22 05:02 G 7306429.57 7306429.71 7306429.86 0.0133 0.0022

Uranus 15292-06-18 09:07 G 7306517.73 7306517.88 7306518.03 0.0133 0.0005

Uranus 15292-09-14 12:57 G 7306605.89 7306606.04 7306606.19 0.0133 0.0013

Uranus 15292-12-11 16:48 G 7306694.06 7306694.20 7306694.34 0.0133 0.0031

Venus 15293-03-09 07:55 G 7306781.72 7306781.83 7306781.94 0.3688 0.0075

Uranus 15293-03-09 20:38 G 7306782.22 7306782.36 7306782.50 0.0133 0.0049

Uranus 15293-06-06 00:14 G 7306870.39 7306870.51 7306870.65 0.0133 0.0066

Neptune 15293-07-04 10:19 G 7306898.90 7306898.93 7306898.97 0.0088 0.0085

Uranus 15293-09-02 04:04 G 7306958.56 7306958.67 7306958.79 0.0133 0.0084

Neptune 15293-09-30 12:14 G 7306986.95 7306987.01 7306987.09 0.0088 0.0078

Uranus 15293-11-29 07:55 G 7307046.74 7307046.83 7307046.93 0.0133 0.0101

Neptune 15293-12-27 14:24 G 7307075.01 7307075.10 7307075.20 0.0088 0.0070

Uranus 15294-02-25 11:31 G 7307134.92 7307134.98 7307135.06 0.0134 0.0118

Neptune 15294-03-25 16:19 G 7307163.09 7307163.18 7307163.31 0.0088 0.0063

Neptune 15294-06-21 18:43 G 7307251.16 7307251.28 7307251.41 0.0088 0.0055

Neptune 15294-09-17 20:52 G 7307339.24 7307339.37 7307339.51 0.0088 0.0047

Venus 15294-09-20 14:52 G 7307342.00 7307342.12 7307342.25 0.3682 0.1268

Neptune 15294-12-14 23:02 G 7307427.32 7307427.46 7307427.61 0.0088 0.0040

Neptune 15295-03-13 01:12 G 7307515.41 7307515.55 7307515.71 0.0088 0.0032

Neptune 15295-06-09 03:21 G 7307603.49 7307603.64 7307603.80 0.0088 0.0024

Neptune 15295-09-05 05:45 G 7307691.58 7307691.74 7307691.90 0.0088 0.0016

Neptune 15295-12-02 07:55 G 7307779.67 7307779.83 7307779.99 0.0088 0.0008

Neptune 15296-02-28 10:04 G 7307867.76 7307867.92 7307868.08 0.0088 0.0002

Saturn 15296-05-24 06:14 G 7307953.69 7307953.76 7307953.83 0.0282 0.0245

Neptune 15296-05-26 12:14 G 7307955.85 7307956.01 7307956.18 0.0088 0.0008

Saturn 15296-08-20 21:50 G 7308042.28 7308042.41 7308042.55 0.0282 0.0135

Neptune 15296-08-22 14:38 G 7308043.95 7308044.11 7308044.27 0.0088 0.0015

Saturn 15296-11-17 13:55 G 7308130.92 7308131.08 7308131.23 0.0282 0.0023

Neptune 15296-11-18 16:48 G 7308132.05 7308132.20 7308132.36 0.0088 0.0023

Jupiter 15297-01-12 11:31 G 7308186.84 7308186.98 7308187.12 0.0539 0.0190

Saturn 15297-02-14 06:14 G 7308219.61 7308219.76 7308219.91 0.0282 0.0093

Neptune 15297-02-14 18:57 G 7308220.15 7308220.29 7308220.45 0.0088 0.0031

Mars 15297-02-19 11:45 G 7308224.84 7308224.99 7308225.13 0.1586 0.0382

Moon 15297-04-11 08:38 G 7308275.74 7308275.86 7308275.98 0.2653 0.0680

Earth 15297-04-11 09:21 G 7308275.77 7308275.89 7308276.01 0.2649 0.0502 *

Jupiter 15297-04-12 05:02 G 7308276.70 7308276.71 7308276.73 0.0542 0.0538

Neptune 15297-05-13 21:21 G 7308308.25 7308308.39 7308308.54 0.0088 0.0039

Saturn 15297-05-13 22:48 G 7308308.35 7308308.45 7308308.56 0.0282 0.0211 *

Neptune 15297-08-09 23:31 G 7308396.35 7308396.48 7308396.62 0.0088 0.0047

Neptune 15297-11-06 01:55 G 7308484.46 7308484.58 7308484.71 0.0088 0.0055

Neptune 15298-02-02 04:04 G 7308572.57 7308572.67 7308572.79 0.0088 0.0063

Neptune 15298-05-01 06:28 G 7308660.68 7308660.77 7308660.87 0.0088 0.0071

Neptune 15298-07-28 08:24 G 7308748.80 7308748.85 7308748.94 0.0088 0.0080

Venus 15298-09-23 02:24 G 7308805.49 7308805.60 7308805.70 0.3689 0.1292

Neptune 15298-10-24 11:02 G 7308836.96 7308836.96 7308836.98 0.0088 0.0088

Moon 15299-10-10 21:50 G 7309188.28 7309188.41 7309188.54 0.2689 0.0088

Earth 15299-10-10 22:04 G 7309188.29 7309188.42 7309188.56 0.2682 0.0211 *

Mars 15299-12-07 12:43 G 7309245.94 7309246.03 7309246.11 0.1951 0.1443

Venus 15300-04-06 14:24 G 7309365.97 7309366.10 7309366.23 0.3682 0.0718

Jupiter 15302-08-31 00:00 G 7310242.38 7310242.50 7310242.63 0.0490 0.0270

Jupiter 15302-11-28 14:09 G 7310331.97 7310332.09 7310332.21 0.0488 0.0301

Pluto 15303-02-10 08:38 G 7310405.84 7310405.86 7310405.90 0.0071 0.0069

Pluto 15303-05-09 09:07 G 7310493.83 7310493.88 7310493.97 0.0071 0.0060

Pluto 15303-08-05 09:50 G 7310581.83 7310581.91 7310582.02 0.0071 0.0051

Pluto 15303-11-01 10:48 G 7310669.85 7310669.95 7310670.06 0.0071 0.0041

Pluto 15304-01-28 11:31 G 7310757.86 7310757.98 7310758.10 0.0071 0.0032

Venus 15304-04-08 20:24 G 7310829.28 7310829.35 7310829.43 0.3689 0.2604

Pluto 15304-04-25 12:14 G 7310845.88 7310846.01 7310846.14 0.0071 0.0023

Pluto 15304-07-22 12:57 G 7310933.91 7310934.04 7310934.17 0.0071 0.0013

Pluto 15304-10-18 13:40 G 7311021.94 7311022.07 7311022.20 0.0071 0.0004

Pluto 15305-01-14 14:24 G 7311109.96 7311110.10 7311110.23 0.0072 0.0006

Pluto 15305-04-12 14:52 G 7311198.00 7311198.12 7311198.26 0.0072 0.0016

Pluto 15305-07-09 15:36 G 7311286.03 7311286.15 7311286.28 0.0072 0.0025

Pluto 15305-10-05 16:19 G 7311374.07 7311374.18 7311374.30 0.0072 0.0035

Venus 15305-10-21 14:24 G 7311390.02 7311390.10 7311390.18 0.3681 0.2815

Pluto 15306-01-01 16:48 G 7311462.11 7311462.20 7311462.32 0.0072 0.0045

Pluto 15306-03-30 17:45 G 7311550.16 7311550.24 7311550.33 0.0072 0.0055

Pluto 15306-06-26 18:28 G 7311638.22 7311638.27 7311638.33 0.0072 0.0065

Mars 15306-07-13 18:00 G 7311655.10 7311655.25 7311655.39 0.1586 0.0290

Jupiter 15308-11-01 12:43 G 7312496.93 7312497.03 7312497.14 0.0538 0.0368

Jupiter 15309-01-30 06:57 G 7312586.68 7312586.79 7312586.89 0.0541 0.0367

Moon 15310-04-15 05:45 G 7313026.63 7313026.74 7313026.84 0.2656 0.1210

Earth 15310-04-15 06:00 G 7313026.64 7313026.75 7313026.86 0.2650 0.1174 *

Saturn 15311-01-01 01:12 G 7313287.47 7313287.55 7313287.65 0.0277 0.0224

Saturn 15311-03-30 16:33 G 7313376.06 7313376.19 7313376.34 0.0277 0.0115

Mars 15311-04-05 20:52 G 7313382.33 7313382.37 7313382.40 0.1950 0.1863

Saturn 15311-06-27 07:40 G 7313464.67 7313464.82 7313464.97 0.0277 0.0009

Saturn 15311-09-23 22:04 G 7313553.29 7313553.42 7313553.57 0.0277 0.0097

Saturn 15311-12-21 12:28 G 7313641.92 7313642.02 7313642.12 0.0277 0.0198

Earth 15312-10-13 21:50 G 7313939.35 7313939.41 7313939.48 0.2681 0.2323

Moon 15312-10-13 22:19 G 7313939.37 7313939.43 7313939.48 0.2688 0.2448 *

Jupiter 15314-06-19 01:40 G 7314552.50 7314552.57 7314552.66 0.0490 0.0417

Jupiter 15314-09-16 15:36 G 7314642.00 7314642.15 7314642.30 0.0488 0.0151

Mars 15315-12-04 00:14 G 7315085.40 7315085.51 7315085.63 0.1586 0.0949

Mars 15320-08-26 02:24 G 7316812.49 7316812.60 7316812.72 0.1951 0.0838

Jupiter 15320-11-18 07:55 G 7316896.70 7316896.83 7316896.97 0.0540 0.0184

Saturn 15325-10-12 08:24 G 7318685.81 7318685.85 7318685.89 0.0282 0.0269

Saturn 15326-01-09 00:00 G 7318774.38 7318774.50 7318774.63 0.0282 0.0161

Saturn 15326-04-07 15:50 G 7318863.01 7318863.16 7318863.32 0.0282 0.0049

Saturn 15326-07-05 08:09 G 7318951.69 7318951.84 7318952.00 0.0282 0.0067

Jupiter 15326-07-05 17:45 G 7318952.08 7318952.24 7318952.39 0.0489 0.0011

Saturn 15326-10-02 00:57 G 7319040.42 7319040.54 7319040.66 0.0282 0.0184

Mars 15327-04-01 06:00 G 7319221.65 7319221.75 7319221.86 0.1586 0.1165

Mars 15330-01-16 07:40 G 7320242.70 7320242.82 7320242.94 0.1951 0.0246

Moon 15330-04-10 17:02 G 7320327.13 7320327.21 7320327.29 0.2648 0.2000

Earth 15330-04-10 17:45 G 7320327.16 7320327.24 7320327.33 0.2649 0.1857 *

Uranus 15332-04-16 16:04 G 7321064.13 7321064.17 7321064.23 0.0146 0.0138

Uranus 15332-07-13 22:04 G 7321152.32 7321152.42 7321152.53 0.0145 0.0113

Jupiter 15332-09-06 08:09 G 7321206.69 7321206.84 7321206.98 0.0539 0.0023

Moon 15332-10-09 03:21 G 7321239.53 7321239.64 7321239.74 0.2686 0.1592

Earth 15332-10-09 04:19 G 7321239.57 7321239.68 7321239.79 0.2683 0.1422 *

Uranus 15332-10-10 04:04 G 7321240.55 7321240.67 7321240.81 0.0145 0.0088

Uranus 15333-01-06 10:04 G 7321328.78 7321328.92 7321329.08 0.0145 0.0063

Uranus 15333-04-04 16:19 G 7321417.02 7321417.18 7321417.34 0.0145 0.0037

Uranus 15333-07-01 22:33 G 7321505.27 7321505.44 7321505.60 0.0145 0.0011

Uranus 15333-09-28 04:48 G 7321593.53 7321593.70 7321593.86 0.0145 0.0015

Uranus 15333-12-25 10:48 G 7321681.80 7321681.95 7321682.12 0.0145 0.0041

Uranus 15334-03-23 17:16 G 7321770.07 7321770.22 7321770.37 0.0145 0.0067

Uranus 15334-06-19 23:16 G 7321858.36 7321858.47 7321858.61 0.0145 0.0095

Uranus 15334-09-16 06:00 G 7321946.66 7321946.75 7321946.84 0.0145 0.0120

Mars 15336-08-21 12:00 G 7322651.86 7322652.00 7322652.14 0.1586 0.0475

Jupiter 15338-04-23 20:09 G 7323262.19 7323262.34 7323262.49 0.0489 0.0127

Jupiter	15338-07-22 10:48 G	7323351.89	7323351.95	7323352.01	0.0487	0.0451
Venus	15338-09-15 16:48 G	7323407.11	7323407.20	7323407.28	0.3688	0.2499
Mars	15339-06-08 12:43 G	7323672.94	7323673.03	7323673.12	0.1951	0.1334
Saturn	15340-05-20 04:04 G	7324019.60	7324019.67	7324019.75	0.0277	0.0244
Saturn	15340-08-16 19:26 G	7324108.18	7324108.31	7324108.45	0.0277	0.0135
Saturn	15340-11-13 10:33 G	7324196.79	7324196.94	7324197.09	0.0277	0.0029
Saturn	15341-02-10 01:12 G	7324285.40	7324285.55	7324285.69	0.0277	0.0076
Saturn	15341-05-09 15:21 G	7324374.03	7324374.14	7324374.26	0.0276	0.0178
Moon	15343-04-13 13:55 G	7325077.95	7325078.08	7325078.20	0.2653	0.0200
Earth	15343-04-13 14:38 G	7325077.99	7325078.11	7325078.23	0.2649	0.0143 *
Venus	15344-03-31 11:31 G	7325430.87	7325430.98	7325431.09	0.3688	0.1048
Jupiter	15344-06-25 09:07 G	7325516.74	7325516.88	7325517.02	0.0539	0.0200
Jupiter	15344-09-23 02:52 G	7325606.59	7325606.62	7325606.65	0.0541	0.0528
Moon	15345-10-12 03:21 G	7325990.52	7325990.64	7325990.77	0.2689	0.0673
Earth	15345-10-12 03:50 G	7325990.53	7325990.66	7325990.79	0.2682	0.0632 *
Venus	15345-10-12 15:21 G	7325991.05	7325991.14	7325991.23	0.3683	0.2574
Mars	15346-01-11 18:14 G	7326082.11	7326082.26	7326082.41	0.1586	0.0197
Venus	15349-10-15 06:14 G	7327454.64	7327454.76	7327454.87	0.3689	0.0364
Jupiter	15350-02-09 22:19 G	7327572.31	7327572.43	7327572.56	0.0490	0.0267
Jupiter	15350-05-10 12:28 G	7327661.90	7327662.02	7327662.15	0.0488	0.0306
Venus	15351-04-28 14:38 G	7328014.98	7328015.11	7328015.23	0.3682	0.0675
Venus	15355-05-01 00:28 G	7329478.42	7329478.52	7329478.62	0.3689	0.1704
Saturn	15355-05-29 00:00 G	7329506.40	7329506.50	7329506.62	0.0282	0.0199
Mars	15355-06-04 00:43 G	7329512.40	7329512.53	7329512.65	0.1586	0.0857
Saturn	15355-08-25 15:50 G	7329595.02	7329595.16	7329595.31	0.0282	0.0088
Saturn	15355-11-22 08:09 G	7329683.68	7329683.84	7329683.99	0.0282	0.0027
Saturn	15356-02-19 00:28 G	7329772.39	7329772.52	7329772.66	0.0282	0.0143
Jupiter	15356-04-13 10:33 G	7329826.83	7329826.94	7329827.04	0.0539	0.0377
Moon	15356-04-15 11:02 G	7329828.86	7329828.96	7329829.06	0.2657	0.1458
Earth	15356-04-15 11:02 G	7329828.86	7329828.96	7329829.06	0.2650	0.1522 *

Saturn 15356-05-17 17:31 G 7329861.17 7329861.23 7329861.29 0.0282 0.0262

Jupiter 15356-07-12 04:33 G 7329916.59 7329916.69 7329916.80 0.0541 0.0360

Venus 15356-11-11 14:09 G 7330038.97 7330039.09 7330039.21 0.3682 0.1351

Mars 15360-02-25 02:38 G 7331239.50 7331239.61 7331239.72 0.1951 0.0937

Venus 15360-11-13 18:43 G 7331502.21 7331502.28 7331502.34 0.3690 0.3006

Jupiter 15361-11-29 00:43 G 7331882.45 7331882.53 7331882.62 0.0490 0.0404

Jupiter 15362-02-26 14:38 G 7331971.96 7331972.11 7331972.25 0.0488 0.0163

Venus 15362-05-28 14:09 G 7332063.05 7332063.09 7332063.14 0.3681 0.3480

Mars 15364-10-24 07:12 G 7332942.76 7332942.80 7332942.85 0.1586 0.1501

Mars 15366-09-30 06:28 G 7333648.68 7333648.77 7333648.86 0.1586 0.1266

Jupiter 15368-04-30 06:28 G 7334226.63 7334226.77 7334226.91 0.0540 0.0188

Mars 15369-07-17 07:55 G 7334669.70 7334669.83 7334669.95 0.1951 0.0131

Saturn 15370-01-03 19:26 G 7334840.19 7334840.31 7334840.43 0.0277 0.0176

Saturn 15370-04-02 10:33 G 7334928.79 7334928.94 7334929.09 0.0277 0.0068

Saturn 15370-06-30 01:12 G 7335017.40 7335017.55 7335017.71 0.0277 0.0038

Saturn 15370-09-26 15:50 G 7335106.03 7335106.16 7335106.29 0.0277 0.0140

Saturn 15370-12-24 06:00 G 7335194.68 7335194.75 7335194.82 0.0276 0.0241

Jupiter 15373-12-15 16:04 G 7336282.02 7336282.17 7336282.33 0.0489 0.0016

Uranus 15374-10-31 12:43 G 7336601.99 7336602.03 7336602.10 0.0133 0.0123

Uranus 15375-01-27 16:48 G 7336690.12 7336690.20 7336690.30 0.0133 0.0105

Uranus 15375-04-25 21:07 G 7336778.27 7336778.38 7336778.49 0.0133 0.0086

Uranus 15375-07-23 00:57 G 7336866.42 7336866.54 7336866.67 0.0133 0.0068

Uranus 15375-10-19 05:02 G 7336954.57 7336954.71 7336954.85 0.0133 0.0050

Uranus 15376-01-15 09:07 G 7337042.73 7337042.88 7337043.02 0.0133 0.0032

Mars 15376-02-20 12:28 G 7337078.88 7337079.02 7337079.16 0.1586 0.0576

Moon 15376-04-10 22:04 G 7337129.33 7337129.42 7337129.52 0.2650 0.1634

Earth 15376-04-10 23:02 G 7337129.36 7337129.46 7337129.56 0.2649 0.1496 *

Uranus 15376-04-12 12:57 G 7337130.89 7337131.04 7337131.19 0.0133 0.0014

Neptune 15376-07-06 07:40 G 7337215.80 7337215.82 7337215.86 0.0089 0.0088

Uranus 15376-07-09 16:48 G 7337219.06 7337219.20 7337219.35 0.0133 0.0005

Neptune 15376-10-02 09:50 G 7337303.85 7337303.91 7337303.99 0.0089 0.0080

Uranus 15376-10-05 20:52 G 7337307.22 7337307.37 7337307.51 0.0133 0.0021

Neptune 15376-12-29 12:00 G 7337391.92 7337392.00 7337392.11 0.0089 0.0071

Uranus 15377-01-02 00:43 G 7337395.39 7337395.53 7337395.67 0.0133 0.0039

Neptune 15377-03-27 14:09 G 7337479.99 7337480.09 7337480.21 0.0089 0.0063

Uranus 15377-03-31 04:19 G 7337483.55 7337483.68 7337483.82 0.0133 0.0056

Neptune 15377-06-23 16:19 G 7337568.07 7337568.18 7337568.31 0.0089 0.0055

Uranus 15377-06-27 08:09 G 7337571.72 7337571.84 7337571.97 0.0133 0.0074

Neptune 15377-09-19 18:43 G 7337656.15 7337656.28 7337656.41 0.0089 0.0047

Uranus 15377-09-23 12:00 G 7337659.90 7337660.00 7337660.11 0.0133 0.0091

Neptune 15377-12-16 20:52 G 7337744.23 7337744.37 7337744.51 0.0089 0.0039

Uranus 15377-12-20 15:36 G 7337748.08 7337748.15 7337748.25 0.0133 0.0108

Neptune 15378-03-14 22:48 G 7337832.31 7337832.45 7337832.60 0.0089 0.0031

Uranus 15378-03-18 19:26 G 7337836.27 7337836.31 7337836.36 0.0133 0.0125

Neptune 15378-06-11 00:57 G 7337920.39 7337920.54 7337920.69 0.0089 0.0023

Neptune 15378-09-07 03:07 G 7338008.48 7338008.63 7338008.78 0.0089 0.0015

Moon 15378-10-10 09:07 G 7338041.76 7338041.88 7338042.00 0.2688 0.1101

Earth 15378-10-10 09:50 G 7338041.79 7338041.91 7338042.03 0.2683 0.1010 *

Neptune 15378-12-04 05:02 G 7338096.56 7338096.71 7338096.87 0.0089 0.0007

Mars 15378-12-07 12:57 G 7338099.95 7338100.04 7338100.14 0.1951 0.1224

Neptune 15379-03-02 07:12 G 7338184.65 7338184.80 7338184.96 0.0089 0.0001

Neptune 15379-05-29 09:07 G 7338272.73 7338272.88 7338273.04 0.0089 0.0010

Neptune 15379-08-25 11:16 G 7338360.82 7338360.97 7338361.12 0.0089 0.0017

Neptune 15379-11-21 13:12 G 7338448.91 7338449.05 7338449.20 0.0089 0.0025

Jupiter 15380-02-17 07:26 G 7338536.67 7338536.81 7338536.96 0.0539 0.0011

Neptune 15380-02-17 15:21 G 7338537.00 7338537.14 7338537.28 0.0089 0.0033

Neptune 15380-05-15 17:16 G 7338625.09 7338625.22 7338625.36 0.0089 0.0040

Neptune 15380-08-11 19:12 G 7338713.18 7338713.30 7338713.43 0.0089 0.0048

Neptune 15380-11-07 21:21 G 7338801.27 7338801.39 7338801.51 0.0089 0.0056

Neptune 15381-02-03 23:16 G 7338889.37 7338889.47 7338889.58 0.0089 0.0064

Neptune 15381-05-03 00:57 G 7338977.47 7338977.54 7338977.64 0.0089 0.0072

Neptune 15381-07-30 03:21 G 7339065.57 7339065.64 7339065.71 0.0089 0.0079

Neptune 15381-10-26 05:02 G 7339153.68 7339153.71 7339153.75 0.0089 0.0087

Saturn 15384-10-15 01:40 G 7340238.48 7340238.57 7340238.66 0.0282 0.0228

Saturn 15385-01-11 17:16 G 7340327.08 7340327.22 7340327.36 0.0282 0.0118

Saturn 15385-04-10 09:21 G 7340415.74 7340415.89 7340416.05 0.0282 0.0007

Saturn 15385-07-08 01:55 G 7340504.43 7340504.58 7340504.72 0.0282 0.0112

Mars 15385-07-12 18:28 G 7340509.12 7340509.27 7340509.42 0.1586 0.0109

Jupiter 15385-10-03 18:14 G 7340592.12 7340592.26 7340592.41 0.0489 0.0127

Saturn 15385-10-04 18:43 G 7340593.19 7340593.28 7340593.37 0.0282 0.0230

Jupiter 15386-01-01 08:52 G 7340681.81 7340681.87 7340681.93 0.0487 0.0452

Pluto 15388-09-30 09:36 G 7341684.83 7341684.90 7341685.00 0.0074 0.0066

Pluto 15388-12-27 12:00 G 7341772.88 7341773.00 7341773.16 0.0073 0.0051

Pluto 15389-03-25 14:38 G 7341860.95 7341861.11 7341861.28 0.0073 0.0036

Moon 15389-04-13 19:12 G 7341880.18 7341880.30 7341880.42 0.2654 0.0080

Earth 15389-04-13 19:55 G 7341880.20 7341880.33 7341880.45 0.2649 0.0218 *

Pluto 15389-06-21 16:48 G 7341949.03 7341949.20 7341949.40 0.0073 0.0021

Pluto 15389-09-17 19:26 G 7342037.12 7342037.31 7342037.50 0.0073 0.0006

Venus 15389-10-06 20:09 G 7342056.31 7342056.34 7342056.37 0.3687 0.3530

Pluto 15389-12-14 21:36 G 7342125.22 7342125.40 7342125.60 0.0073 0.0009

Pluto 15390-03-13 00:00 G 7342213.32 7342213.50 7342213.69 0.0073 0.0023

Pluto 15390-06-09 01:55 G 7342301.44 7342301.58 7342301.77 0.0073 0.0038

Pluto 15390-09-05 04:19 G 7342389.56 7342389.68 7342389.83 0.0073 0.0052

Pluto 15390-12-02 06:43 G 7342477.71 7342477.78 7342477.87 0.0072 0.0066

Moon 15391-10-13 09:07 G 7342792.76 7342792.88 7342793.01 0.2689 0.0974

Earth 15391-10-13 09:21 G 7342792.77 7342792.89 7342793.01 0.2682 0.1055 *

Jupiter 15391-12-06 07:26 G 7342846.67 7342846.81 7342846.94 0.0539 0.0200

Jupiter 15392-03-05 00:57 G 7342936.51 7342936.54 7342936.57 0.0541 0.0528

Mars 15394-12-03 00:57 G 7343939.41 7343939.54 7343939.67 0.1586 0.0767

Venus 15395-04-22 15:07 G 7344080.03 7344080.13 7344080.23 0.3688 0.2039

Jupiter 15397-07-22 20:52 G 7344902.24 7344902.37 7344902.50 0.0490 0.0261

Jupiter 15397-10-20 11:02 G 7344991.84 7344991.96 7344992.08 0.0488 0.0312

Saturn 15399-05-23 22:19 G 7345572.32 7345572.43 7345572.53 0.0277 0.0196

Saturn 15399-08-20 13:26 G 7345660.91 7345661.06 7345661.21 0.0277 0.0088

Mars 15399-08-26 02:38 G 7345666.51 7345666.61 7345666.71 0.1951 0.1037

Saturn 15399-11-17 04:19 G 7345749.53 7345749.68 7345749.83 0.0277 0.0018

Saturn 15400-02-13 18:43 G 7345838.15 7345838.28 7345838.42 0.0276 0.0121

Saturn 15400-05-13 08:52 G 7345926.79 7345926.87 7345926.96 0.0276 0.0222

Venus 15400-11-06 09:50 G 7346103.80 7346103.91 7346104.03 0.3688 0.0612

Earth 15402-04-17 16:19 G 7346631.09 7346631.18 7346631.27 0.2650 0.1870

Moon 15402-04-17 16:19 G 7346631.10 7346631.18 7346631.26 0.2657 0.1951 *

Venus 15402-05-20 14:52 G 7346664.02 7346664.12 7346664.23 0.3683 0.1996

Jupiter 15403-09-25 08:24 G 7347156.74 7347156.85 7347156.95 0.0538 0.0385

Jupiter 15403-12-24 02:24 G 7347246.50 7347246.60 7347246.71 0.0541 0.0352

Mars 15404-04-25 07:26 G 7347369.75 7347369.81 7347369.88 0.1586 0.1413

Mars 15406-04-01 06:43 G 7348075.71 7348075.78 7348075.86 0.1586 0.1363

Venus 15406-05-23 04:19 G 7348127.57 7348127.68 7348127.80 0.3689 0.0791

Venus 15407-12-04 14:09 G 7348687.96 7348688.09 7348688.22 0.3682 0.0084

Mars 15409-01-16 08:09 G 7349096.71 7349096.84 7349096.96 0.1951 0.0027

Jupiter 15409-05-11 23:16 G 7349212.39 7349212.47 7349212.56 0.0490 0.0398

Jupiter 15409-08-09 12:57 G 7349301.90 7349302.04 7349302.19 0.0488 0.0169

Earth 15411-10-09 16:04 G 7350093.15 7350093.17 7350093.20 0.2683 0.2600

Venus 15411-12-06 22:48 G 7350151.35 7350151.45 7350151.54 0.3689 0.2120

Venus 15413-06-19 13:55 G 7350711.97 7350712.08 7350712.19 0.3681 0.1986

Saturn 15414-03-05 01:55 G 7350970.53 7350970.58 7350970.63 0.0282 0.0264

Saturn 15414-06-01 17:31 G 7351059.10 7351059.23 7351059.36 0.0282 0.0156

Saturn 15414-08-29 09:21 G 7351147.74 7351147.89 7351148.05 0.0282 0.0044

Saturn 15414-11-26 01:40 G 7351236.42 7351236.57 7351236.72 0.0282 0.0071

Saturn 15415-02-22 18:14 G 7351325.15 7351325.26 7351325.38 0.0282 0.0189

Mars 15415-08-22 12:43 G 7351505.90 7351506.03 7351506.17 0.1586 0.0674

Jupiter 15415-10-12 04:19 G 7351556.54 7351556.68 7351556.82 0.0540 0.0181

Uranus 15416-05-07 23:31 G 7351765.42 7351765.48 7351765.56 0.0146 0.0131

Uranus 15416-08-04 05:31 G 7351853.63 7351853.73 7351853.85 0.0145 0.0106

Uranus 15416-10-31 11:31 G 7351941.85 7351941.98 7351942.13 0.0145 0.0081

Uranus 15417-01-27 17:31 G 7352030.09 7352030.23 7352030.39 0.0145 0.0056

Uranus 15417-04-25 23:45 G 7352118.33 7352118.49 7352118.66 0.0145 0.0030

Venus 15417-06-21 16:48 G 7352175.16 7352175.20 7352175.24 0.3690 0.3403

Uranus 15417-07-23 06:00 G 7352206.59 7352206.75 7352206.92 0.0145 0.0004

Uranus 15417-10-19 12:14 G 7352294.85 7352295.01 7352295.18 0.0145 0.0023

Uranus 15418-01-15 18:28 G 7352383.12 7352383.27 7352383.43 0.0145 0.0049

Uranus 15418-04-14 00:43 G 7352471.39 7352471.53 7352471.68 0.0145 0.0075

Mars 15418-06-08 13:12 G 7352526.95 7352527.05 7352527.15 0.1951 0.1115

Uranus 15418-07-11 07:12 G 7352559.68 7352559.80 7352559.92 0.0145 0.0102

Uranus 15418-10-07 13:26 G 7352647.99 7352648.06 7352648.15 0.0145 0.0128

Jupiter 15421-05-28 15:07 G 7353611.98 7353612.13 7353612.29 0.0489 0.0031

Moon 15422-04-13 03:21 G 7353931.53 7353931.64 7353931.75 0.2651 0.1235

Earth 15422-04-13 04:19 G 7353931.57 7353931.68 7353931.80 0.2649 0.1132 *

Moon 15424-10-11 14:52 G 7354843.99 7354844.12 7354844.24 0.2689 0.0670

Earth 15424-10-11 15:21 G 7354844.01 7354844.14 7354844.27 0.2682 0.0595 *

Mars 15425-01-11 18:57 G 7354936.14 7354936.29 7354936.44 0.1586 0.0006

Jupiter 15427-07-31 06:00 G 7355866.60 7355866.75 7355866.90 0.0540 0.0009

Saturn 15428-10-10 21:36 G 7356304.33 7356304.40 7356304.48 0.0277 0.0240

Saturn 15429-01-07 12:57 G 7356392.91 7356393.04 7356393.18 0.0277 0.0131

Saturn 15429-04-06 04:04 G 7356481.52 7356481.67 7356481.82 0.0277 0.0024

Saturn 15429-07-03 18:43 G 7356570.13 7356570.28 7356570.42 0.0276 0.0080

Saturn 15429-09-30 08:52 G 7356658.77 7356658.87 7356658.99 0.0276 0.0183

Jupiter 15433-03-16 17:02 G 7357922.06 7357922.21 7357922.36 0.0489 0.0119

Jupiter 15433-06-14 07:26 G 7358011.76 7358011.81 7358011.86 0.0487 0.0458

Mars 15434-06-04 01:26 G 7358366.42 7358366.56 7358366.69 0.1586 0.0671

Moon 15435-04-16 00:28 G 7358682.40 7358682.52 7358682.64 0.2655 0.0527

Earth 15435-04-16 00:57 G 7358682.42 7358682.54 7358682.67 0.2650 0.0572 *

Earth 15437-10-14 14:52 G 7359595.01 7359595.12 7359595.24 0.2682 0.1482

Moon 15437-10-14 14:52 G 7359595.02 7359595.12 7359595.23 0.2688 0.1528 *

Mars 15439-02-25 02:52 G 7360093.52 7360093.62 7360093.72 0.1951 0.1149

Jupiter 15439-05-19 06:57 G 7360176.65 7360176.79 7360176.93 0.0539 0.0175

Saturn 15443-10-19 18:28 G 7361791.16 7361791.27 7361791.39 0.0282 0.0188

Mars 15443-10-25 07:55 G 7361796.75 7361796.83 7361796.90 0.1586 0.1324

Saturn 15444-01-16 10:19 G 7361879.78 7361879.93 7361880.08 0.0282 0.0077

Saturn 15444-04-14 02:24 G 7361968.45 7361968.60 7361968.76 0.0282 0.0038

Saturn 15444-07-11 18:57 G 7362057.16 7362057.29 7362057.43 0.0282 0.0154

Saturn 15444-10-08 12:00 G 7362145.97 7362146.00 7362146.04 0.0282 0.0273

Jupiter 15445-01-02 19:12 G 7362232.18 7362232.30 7362232.44 0.0490 0.0258

Jupiter 15445-04-02 09:21 G 7362321.77 7362321.89 7362322.01 0.0488 0.0315

Mars 15445-09-30 07:12 G 7362502.75 7362502.80 7362502.86 0.1586 0.1464

Venus 15446-05-14 18:28 G 7362729.21 7362729.27 7362729.33 0.3687 0.3065

Moon 15448-04-17 21:36 G 7363433.33 7363433.40 7363433.47 0.2657 0.2186

Earth 15448-04-17 21:36 G 7363433.33 7363433.40 7363433.46 0.2650 0.2214 *

Mars 15448-07-17 08:09 G 7363523.72 7363523.84 7363523.97 0.1951 0.0082

Jupiter 15451-03-07 06:43 G 7364486.68 7364486.78 7364486.89 0.0538 0.0380

Jupiter 15451-06-05 00:57 G 7364576.43 7364576.54 7364576.65 0.0540 0.0355

Venus 15451-11-28 13:26 G 7364752.96 7364753.06 7364753.17 0.3688 0.1590

Venus 15453-06-10 15:36 G 7365313.09 7365313.15 7365313.20 0.3683 0.3279

Mars 15455-02-20 12:57 G 7365932.91 7365933.04 7365933.18 0.1586 0.0766

Moon 15455-04-11 11:45 G 7365982.96 7365982.99 7365983.02 0.2646 0.2555

Earth 15455-04-11 12:43 G 7365982.99 7365983.03 7365983.07 0.2648 0.2506 *

Jupiter 15456-10-21 22:04 G 7366542.33 7366542.42 7366542.51 0.0491 0.0391

Jupiter 15457-01-19 11:45 G 7366631.84 7366631.99 7366632.13 0.0488 0.0177

Venus 15457-06-13 08:09 G 7366776.73 7366776.84 7366776.96 0.3689 0.0172

Moon 15457-10-09 20:38 G 7366895.29 7366895.36 7366895.43 0.2685 0.2270

Earth 15457-10-09 21:36 G 7366895.33 7366895.40 7366895.48 0.2683 0.2201 *

Mars 15457-12-07 13:12 G 7366953.95 7366954.05 7366954.16 0.1951 0.1015

Saturn 15458-02-28 00:14 G 7367036.47 7367036.51 7367036.56 0.0277 0.0262

Neptune 15458-04-02 08:38 G 7367069.82 7367069.86 7367069.91 0.0088 0.0084

Saturn 15458-05-27 15:36 G 7367125.03 7367125.15 7367125.29 0.0277 0.0152

Neptune 15458-06-29 10:33 G 7367157.88 7367157.94 7367158.03 0.0088 0.0077

Saturn 15458-08-24 06:43 G 7367213.63 7367213.78 7367213.94 0.0277 0.0045

Neptune 15458-09-25 12:43 G 7367245.95 7367246.03 7367246.14 0.0088 0.0069

Saturn 15458-11-20 21:36 G 7367302.25 7367302.40 7367302.55 0.0277 0.0060

Uranus 15458-11-21 20:38 G 7367303.30 7367303.36 7367303.45 0.0133 0.0115

Neptune 15458-12-22 14:52 G 7367334.02 7367334.12 7367334.24 0.0088 0.0062

Venus 15458-12-25 14:24 G 7367336.98 7367337.10 7367337.22 0.3682 0.1416

Saturn 15459-02-17 12:00 G 7367390.88 7367391.00 7367391.12 0.0277 0.0163

Uranus 15459-02-18 00:43 G 7367391.44 7367391.53 7367391.65 0.0133 0.0097

Neptune 15459-03-20 17:02 G 7367422.09 7367422.21 7367422.34 0.0088 0.0054

Saturn 15459-05-17 01:55 G 7367479.54 7367479.58 7367479.63 0.0276 0.0263

Uranus 15459-05-17 05:02 G 7367479.59 7367479.71 7367479.83 0.0133 0.0078 *

Neptune 15459-06-16 19:12 G 7367510.17 7367510.30 7367510.44 0.0088 0.0046

Uranus 15459-08-13 09:07 G 7367567.75 7367567.88 7367568.01 0.0133 0.0060

Neptune 15459-09-12 21:21 G 7367598.25 7367598.39 7367598.54 0.0088 0.0039

Uranus 15459-11-09 12:57 G 7367655.90 7367656.04 7367656.19 0.0133 0.0042

Neptune 15459-12-09 23:31 G 7367686.34 7367686.48 7367686.64 0.0088 0.0031

Uranus 15460-02-05 17:02 G 7367744.06 7367744.21 7367744.36 0.0133 0.0024

Neptune 15460-03-07 01:55 G 7367774.42 7367774.58 7367774.73 0.0088 0.0023

Uranus 15460-05-03 20:52 G 7367832.23 7367832.37 7367832.52 0.0133 0.0007

Neptune 15460-06-03 04:04 G 7367862.51 7367862.67 7367862.83 0.0088 0.0015

Uranus 15460-07-31 00:57 G 7367920.39 7367920.54 7367920.68 0.0133 0.0012

Neptune 15460-08-30 06:14 G 7367950.60 7367950.76 7367950.92 0.0088 0.0007

Uranus 15460-10-27 04:48 G 7368008.55 7368008.70 7368008.84 0.0133 0.0029

Neptune 15460-11-26 08:24 G 7368038.69 7368038.85 7368039.01 0.0088 0.0002

Uranus 15461-01-23 08:38 G 7368096.72 7368096.86 7368097.00 0.0133 0.0046

Neptune 15461-02-22 10:33 G 7368126.79 7368126.94 7368127.11 0.0088 0.0009

Uranus 15461-04-21 12:14 G 7368184.89 7368185.01 7368185.15 0.0133 0.0064

Neptune 15461-05-21 12:57 G 7368214.88 7368215.04 7368215.20 0.0088 0.0016

Uranus 15461-07-18 16:04 G 7368273.06 7368273.17 7368273.29 0.0133 0.0082

Neptune 15461-08-17 15:07 G 7368302.98 7368303.13 7368303.29 0.0088 0.0024

Uranus 15461-10-14 19:55 G 7368361.24 7368361.33 7368361.43 0.0133 0.0099

Neptune 15461-11-13 17:16 G 7368391.07 7368391.22 7368391.38 0.0088 0.0032

Uranus 15462-01-10 23:45 G 7368449.42 7368449.49 7368449.56 0.0133 0.0116

Neptune 15462-02-09 19:40 G 7368479.18 7368479.32 7368479.46 0.0088 0.0040

Uranus 15462-04-09 03:36 G 7368537.64 7368537.65 7368537.66 0.0133 0.0133

Neptune 15462-05-08 21:50 G 7368567.28 7368567.41 7368567.55 0.0088 0.0048

Neptune 15462-08-05 00:00 G 7368655.38 7368655.50 7368655.63 0.0088 0.0056

Neptune 15462-11-01 02:24 G 7368743.49 7368743.60 7368743.71 0.0088 0.0064

Venus 15462-12-28 02:38 G 7368800.50 7368800.61 7368800.72 0.3689 0.1199

Neptune 15463-01-28 04:48 G 7368831.61 7368831.70 7368831.79 0.0088 0.0072

Jupiter 15463-03-24 02:09 G 7368886.46 7368886.59 7368886.73 0.0540 0.0177

Neptune 15463-04-26 07:12 G 7368919.73 7368919.80 7368919.86 0.0088 0.0080

Venus 15464-07-10 13:40 G 7369360.94 7369361.07 7369361.20 0.3682 0.0541

Mars 15464-07-12 19:12 G 7369363.15 7369363.30 7369363.45 0.1586 0.0102

Moon 15468-04-13 08:38 G 7370733.75 7370733.86 7370733.98 0.2651 0.0936

Earth 15468-04-13 09:36 G 7370733.78 7370733.90 7370734.02 0.2649 0.0771 *

Venus 15468-07-12 20:52 G 7370824.29 7370824.37 7370824.45 0.3690 0.2524

Jupiter 15468-11-07 13:55 G 7370941.92 7370942.08 7370942.23 0.0489 0.0036

Venus 15470-01-24 13:40 G 7371384.98 7371385.07 7371385.16 0.3681 0.2629

Moon 15470-10-12 20:24 G 7371646.22 7371646.35 7371646.48 0.2689 0.0301

Earth 15470-10-12 20:52 G 7371646.24 7371646.37 7371646.51 0.2682 0.0191 *

Saturn 15473-03-07 18:57 G 7372523.20 7372523.29 7372523.38 0.0282 0.0225

Saturn 15473-06-04 10:33 G 7372611.80 7372611.94 7372612.08 0.0282 0.0115

Saturn 15473-09-01 02:24 G 7372700.45 7372700.60 7372700.76 0.0282 0.0009

Saturn 15473-11-28 18:57 G 7372789.14 7372789.29 7372789.43 0.0282 0.0113

Mars 15473-12-03 01:40 G 7372793.43 7372793.57 7372793.71 0.1586 0.0576

Saturn 15474-02-25 11:45 G 7372877.90 7372877.99 7372878.08 0.0282 0.0232

Jupiter 15475-01-10 03:50 G 7373196.51 7373196.66 7373196.81 0.0540 0.0007

Mars 15478-08-26 03:07 G 7374520.53 7374520.63 7374520.72 0.1951 0.1258

Jupiter 15480-08-26 16:04 G 7375252.02 7375252.17 7375252.32 0.0489 0.0104

Jupiter 15480-11-24 06:43 G 7375341.74 7375341.78 7375341.81 0.0487 0.0474

Moon 15481-04-16 06:00 G 7375484.63 7375484.75 7375484.86 0.2656 0.0891

Earth 15481-04-16 06:14 G 7375484.65 7375484.76 7375484.88 0.2650 0.0918 *

Mars 15483-04-25 08:09 G 7376223.75 7376223.84 7376223.93 0.1586 0.1228

Earth 15483-10-15 20:38 G 7376397.27 7376397.36 7376397.45 0.2682 0.1909

Moon 15483-10-15 20:52 G 7376397.28 7376397.37 7376397.46 0.2688 0.1957 *

Mars 15485-03-31 07:40 G 7376929.80 7376929.82 7376929.84 0.1586 0.1563

Jupiter 15486-10-29 05:31 G 7377506.59 7377506.73 7377506.87 0.0539 0.0170

Saturn 15487-10-14 15:07 G 7377857.02 7377857.13 7377857.24 0.0277 0.0196

Saturn 15488-01-11 06:14 G 7377945.62 7377945.76 7377945.91 0.0277 0.0088

Mars 15488-01-16 08:24 G 7377950.72 7377950.85 7377950.97 0.1951 0.0192

Saturn 15488-04-08 21:07 G 7378034.23 7378034.38 7378034.54 0.0276 0.0020

Saturn 15488-07-06 11:45 G 7378122.86 7378122.99 7378123.13 0.0276 0.0122

Saturn 15488-10-03 01:55 G 7378211.50 7378211.58 7378211.67 0.0276 0.0223

Jupiter 15492-06-14 18:00 G 7379562.12 7379562.25 7379562.39 0.0490 0.0249

Jupiter 15492-09-12 08:09 G 7379651.72 7379651.84 7379651.96 0.0488 0.0324

Earth 15494-04-19 02:38 G 7380235.58 7380235.61 7380235.64 0.2651 0.2557

Moon 15494-04-19 02:52 G 7380235.61 7380235.62 7380235.64 0.2657 0.2629 *

Mars 15494-08-21 13:26 G 7380359.94 7380360.06 7380360.19 0.1586 0.0871

Mars 15497-06-07 13:26 G 7381380.95 7381381.06 7381381.18 0.1951 0.0899

Jupiter 15498-08-17 06:28 G 7381816.66 7381816.77 7381816.88 0.0538 0.0354

Jupiter 15498-11-15 00:43 G 7381906.43 7381906.53 7381906.63 0.0541 0.0382

Uranus 15500-05-29 07:40 G 7382466.74 7382466.82 7382466.92 0.0146 0.0121

Uranus 15500-08-25 13:40 G 7382554.96 7382555.07 7382555.20 0.0145 0.0096

Uranus 15500-11-21 19:55 G 7382643.18 7382643.33 7382643.47 0.0145 0.0071

Uranus 15501-02-18 01:55 G 7382731.42 7382731.58 7382731.74 0.0145 0.0045

Moon 15501-04-12 17:02 G 7382785.16 7382785.21 7382785.27 0.2648 0.2342

Earth 15501-04-12 18:00 G 7382785.18 7382785.25 7382785.33 0.2648 0.2135 *

Uranus 15501-05-17 07:55 G 7382819.67 7382819.83 7382820.00 0.0145 0.0020

Uranus 15501-08-13 14:09 G 7382907.93 7382908.09 7382908.26 0.0145 0.0007

Uranus 15501-11-09 20:24 G 7382996.19 7382996.35 7382996.52 0.0145 0.0032

Uranus 15502-02-06 02:38 G 7383084.46 7383084.61 7383084.77 0.0145 0.0059

Uranus 15502-05-05 08:52 G 7383172.74 7383172.87 7383173.01 0.0145 0.0085

Saturn 15502-07-26 19:26 G 7383255.25 7383255.31 7383255.36 0.0282 0.0261

Uranus 15502-08-01 15:07 G 7383261.04 7383261.13 7383261.25 0.0145 0.0112

Saturn 15502-10-23 10:48 G 7383343.83 7383343.95 7383344.08 0.0282 0.0152

Uranus 15502-10-28 21:50 G 7383349.37 7383349.41 7383349.46 0.0145 0.0138

Venus 15502-12-20 16:48 G 7383402.12 7383402.20 7383402.29 0.3688 0.2609

Saturn 15503-01-20 02:52 G 7383432.46 7383432.62 7383432.77 0.0282 0.0040

Saturn 15503-04-18 19:12 G 7383521.15 7383521.30 7383521.45 0.0282 0.0075

Saturn 15503-07-16 11:45 G 7383609.88 7383609.99 7383610.11 0.0282 0.0193

Moon 15503-10-12 02:24 G 7383697.51 7383697.60 7383697.68 0.2687 0.2003

Earth 15503-10-12 03:07 G 7383697.54 7383697.63 7383697.73 0.2683 0.1796 *

Mars 15504-01-12 19:40 G 7383790.17 7383790.32 7383790.47 0.1585 0.0185

Jupiter 15504-04-03 20:38 G 7383872.26 7383872.36 7383872.45 0.0490 0.0385

Jupiter 15504-07-02 10:19 G 7383961.78 7383961.93 7383962.07 0.0488 0.0183

Venus 15508-07-05 11:45 G 7385425.88 7385425.99 7385426.10 0.3688 0.1147

Venus 15510-01-16 14:52 G 7385986.04 7385986.12 7385986.21 0.3683 0.2717

Jupiter 15510-09-04 00:43 G 7386216.40 7386216.53 7386216.67 0.0540 0.0184

Mars 15513-06-04 01:55 G 7387220.44 7387220.58 7387220.72 0.1586 0.0486

Venus 15514-01-19 06:28 G 7387449.65 7387449.77 7387449.88 0.3689 0.0269

Moon 15514-04-15 14:09 G 7387535.97 7387536.09 7387536.21 0.2652 0.0466

Earth 15514-04-15 14:52 G 7387536.00 7387536.12 7387536.25 0.2649 0.0410 *

Venus 15515-08-02 13:55 G 7388009.95 7388010.08 7388010.20 0.3682 0.0842

Jupiter 15516-04-20 12:43 G 7388271.87 7388272.03 7388272.18 0.0489 0.0047

Moon	15516-10-14 01:55 G	7388448.45	7388448.58	7388448.72	0.2688	0.0226
Earth	15516-10-14 02:38 G	7388448.47	7388448.61	7388448.74	0.2682	0.0246 *
Saturn	15517-03-03 17:31 G	7388589.14	7388589.23	7388589.33	0.0277	0.0219
Saturn	15517-05-31 08:52 G	7388677.73	7388677.87	7388678.01	0.0277	0.0110
Saturn	15517-08-28 00:00 G	7388766.34	7388766.50	7388766.65	0.0277	0.0008
Saturn	15517-11-24 14:38 G	7388854.97	7388855.11	7388855.25	0.0277	0.0101
Saturn	15518-02-21 04:48 G	7388943.60	7388943.70	7388943.80	0.0277	0.0202
Mars	15518-02-25 03:07 G	7388947.54	7388947.63	7388947.71	0.1951	0.1351
Venus	15519-08-05 00:43 G	7389473.43	7389473.53	7389473.64	0.3689	0.1623
Venus	15521-02-15 13:26 G	7390033.93	7390034.06	7390034.18	0.3682	0.1171
Jupiter	15522-06-23 01:55 G	7390526.44	7390526.58	7390526.73	0.0539	0.0012
Mars	15522-10-25 08:24 G	7390650.75	7390650.85	7390650.96	0.1586	0.1139
Venus	15525-02-17 18:57 G	7391497.22	7391497.29	7391497.36	0.3690	0.2920
Venus	15526-09-01 13:12 G	7392058.00	7392058.05	7392058.11	0.3681	0.3273
Moon	15527-04-18 11:16 G	7392286.86	7392286.97	7392287.08	0.2657	0.1212
Earth	15527-04-18 11:31 G	7392286.87	7392286.98	7392287.09	0.2650	0.1270 *
Mars	15527-07-18 08:38 G	7392377.74	7392377.86	7392377.98	0.1951	0.0307
Jupiter	15528-02-07 14:52 G	7392581.97	7392582.12	7392582.27	0.0489	0.0095
Jupiter	15528-05-07 05:16 G	7392671.71	7392671.72	7392671.74	0.0487	0.0483
Earth	15529-10-17 02:09 G	7393199.53	7393199.59	7393199.66	0.2681	0.2334
Moon	15529-10-17 02:38 G	7393199.55	7393199.61	7393199.67	0.2688	0.2388 *
Saturn	15532-03-11 11:16 G	7394075.87	7394075.97	7394076.09	0.0282	0.0188
Saturn	15532-06-08 03:07 G	7394164.49	7394164.63	7394164.78	0.0282	0.0077
Saturn	15532-09-04 19:12 G	7394253.15	7394253.30	7394253.46	0.0282	0.0038
Saturn	15532-12-02 11:45 G	7394341.86	7394341.99	7394342.12	0.0282	0.0154
Saturn	15533-03-01 04:48 G	7394430.66	7394430.70	7394430.73	0.0282	0.0273
Mars	15534-02-20 13:55 G	7394786.96	7394787.08	7394787.20	0.1586	0.0965
Jupiter	15534-04-11 03:21 G	7394836.50	7394836.64	7394836.78	0.0539	0.0175
Mars	15536-12-07 13:40 G	7395807.96	7395808.07	7395808.18	0.1951	0.0794
Jupiter	15539-11-26 17:16 G	7396892.09	7396892.22	7396892.36	0.0490	0.0232

Jupiter 15540-02-24 07:26 G 7396981.70 7396981.81 7396981.92 0.0488 0.0341

Neptune 15541-04-04 06:00 G 7397386.72 7397386.75 7397386.78 0.0089 0.0088

Neptune 15541-07-01 07:55 G 7397474.77 7397474.83 7397474.91 0.0089 0.0080

Neptune 15541-09-27 10:04 G 7397562.84 7397562.92 7397563.02 0.0089 0.0072

Neptune 15541-12-24 12:14 G 7397650.91 7397651.01 7397651.13 0.0089 0.0063

Neptune 15542-03-22 14:24 G 7397738.99 7397739.10 7397739.23 0.0089 0.0055

Neptune 15542-06-18 16:33 G 7397827.07 7397827.19 7397827.33 0.0089 0.0047

Neptune 15542-09-14 18:43 G 7397915.15 7397915.28 7397915.43 0.0089 0.0039

Uranus 15542-09-16 00:43 G 7397916.49 7397916.53 7397916.58 0.0133 0.0125

Neptune 15542-12-11 20:52 G 7398003.23 7398003.37 7398003.52 0.0089 0.0031

Uranus 15542-12-13 04:48 G 7398004.62 7398004.70 7398004.79 0.0133 0.0107

Neptune 15543-03-09 23:02 G 7398091.31 7398091.46 7398091.61 0.0089 0.0023

Uranus 15543-03-11 08:52 G 7398092.77 7398092.87 7398092.99 0.0133 0.0089

Neptune 15543-06-06 01:12 G 7398179.40 7398179.55 7398179.70 0.0089 0.0015

Uranus 15543-06-07 12:57 G 7398180.92 7398181.04 7398181.17 0.0133 0.0071

Mars 15543-07-13 20:09 G 7398217.19 7398217.34 7398217.48 0.1585 0.0286

Neptune 15543-09-02 03:07 G 7398267.48 7398267.63 7398267.79 0.0089 0.0008

Uranus 15543-09-03 17:02 G 7398269.07 7398269.21 7398269.35 0.0133 0.0052

Neptune 15543-11-29 05:16 G 7398355.57 7398355.72 7398355.88 0.0089 0.0002

Uranus 15543-11-30 21:07 G 7398357.23 7398357.38 7398357.52 0.0133 0.0034

Neptune 15544-02-25 07:26 G 7398443.65 7398443.81 7398443.96 0.0089 0.0009

Uranus 15544-02-27 00:57 G 7398445.39 7398445.54 7398445.69 0.0133 0.0017

Neptune 15544-05-23 09:21 G 7398531.74 7398531.89 7398532.04 0.0089 0.0017

Uranus 15544-05-25 05:02 G 7398533.56 7398533.71 7398533.85 0.0133 0.0004

Neptune 15544-08-19 11:31 G 7398619.83 7398619.98 7398620.13 0.0089 0.0025

Uranus 15544-08-21 08:52 G 7398621.72 7398621.87 7398622.02 0.0133 0.0019

Neptune 15544-11-15 13:26 G 7398707.92 7398708.06 7398708.21 0.0089 0.0033

Uranus 15544-11-17 12:43 G 7398709.89 7398710.03 7398710.17 0.0133 0.0037

Neptune 15545-02-11 15:21 G 7398796.01 7398796.14 7398796.28 0.0089 0.0041

Uranus 15545-02-13 16:33 G 7398798.06 7398798.19 7398798.32 0.0133 0.0054

Neptune 15545-05-10 17:16 G 7398884.10 7398884.22 7398884.36 0.0089 0.0049

Uranus 15545-05-12 20:24 G 7398886.23 7398886.35 7398886.47 0.0133 0.0072

Neptune 15545-08-06 19:12 G 7398972.20 7398972.30 7398972.43 0.0089 0.0056

Uranus 15545-08-09 00:00 G 7398974.40 7398974.50 7398974.62 0.0133 0.0089

Neptune 15545-11-02 21:21 G 7399060.29 7399060.39 7399060.50 0.0089 0.0064

Uranus 15545-11-05 03:50 G 7399062.58 7399062.66 7399062.75 0.0133 0.0106

Jupiter 15546-01-28 05:02 G 7399146.60 7399146.71 7399146.82 0.0538 0.0349

Neptune 15546-01-29 23:16 G 7399148.39 7399148.47 7399148.57 0.0089 0.0071

Uranus 15546-02-01 07:40 G 7399150.77 7399150.82 7399150.88 0.0133 0.0123

Jupiter 15546-04-27 23:16 G 7399236.37 7399236.47 7399236.57 0.0541 0.0388

Neptune 15546-04-28 01:26 G 7399236.49 7399236.56 7399236.63 0.0089 0.0079 *

Mars 15546-04-29 18:28 G 7399238.25 7399238.27 7399238.29 0.1951 0.1909

Saturn 15546-07-21 16:48 G 7399321.16 7399321.20 7399321.24 0.0277 0.0264

Neptune 15546-07-25 03:21 G 7399324.61 7399324.64 7399324.68 0.0089 0.0087

Saturn 15546-10-18 08:09 G 7399409.72 7399409.84 7399409.97 0.0277 0.0155

Saturn 15547-01-14 23:16 G 7399498.32 7399498.47 7399498.62 0.0277 0.0047

Saturn 15547-04-13 14:09 G 7399586.94 7399587.09 7399587.24 0.0276 0.0058

Moon 15547-04-13 22:19 G 7399587.34 7399587.43 7399587.52 0.2648 0.1830

Earth 15547-04-13 23:16 G 7399587.38 7399587.47 7399587.56 0.2648 0.1773 *

Saturn 15547-07-11 04:33 G 7399675.57 7399675.69 7399675.81 0.0276 0.0161

Saturn 15547-10-07 18:43 G 7399764.23 7399764.28 7399764.33 0.0276 0.0260

Pluto 15548-10-12 00:28 G 7400134.51 7400134.52 7400134.53 0.0071 0.0070

Pluto 15549-01-08 00:57 G 7400222.48 7400222.54 7400222.61 0.0071 0.0061

Pluto 15549-04-06 01:40 G 7400310.49 7400310.57 7400310.66 0.0071 0.0052

Pluto 15549-07-03 02:09 G 7400398.50 7400398.59 7400398.71 0.0071 0.0043

Pluto 15549-09-29 03:07 G 7400486.51 7400486.63 7400486.75 0.0071 0.0033

Moon 15549-10-12 07:40 G 7400499.71 7400499.82 7400499.93 0.2688 0.1434

Earth 15549-10-12 08:38 G 7400499.75 7400499.86 7400499.98 0.2683 0.1394 *

Pluto 15549-12-26 03:36 G 7400574.53 7400574.65 7400574.79 0.0071 0.0025

Pluto 15550-03-24 04:33 G 7400662.56 7400662.69 7400662.82 0.0071 0.0015

Pluto	15550-06-20 05:16 G	7400750.58	7400750.72	7400750.85	0.0071	0.0006
Pluto	15550-09-16 06:00 G	7400838.61	7400838.75	7400838.88	0.0072	0.0005
Pluto	15550-12-13 06:43 G	7400926.64	7400926.78	7400926.91	0.0072	0.0014
Pluto	15551-03-11 07:12 G	7401014.68	7401014.80	7401014.93	0.0072	0.0024
Pluto	15551-06-07 07:40 G	7401102.72	7401102.82	7401102.95	0.0072	0.0034
Pluto	15551-09-03 08:38 G	7401190.76	7401190.86	7401190.97	0.0072	0.0043
Jupiter	15551-09-14 19:26 G	7401202.21	7401202.31	7401202.40	0.0490	0.0375
Pluto	15551-11-30 09:21 G	7401278.81	7401278.89	7401278.98	0.0072	0.0053
Jupiter	15551-12-13 09:07 G	7401291.73	7401291.88	7401292.02	0.0488	0.0193
Pluto	15552-02-26 09:50 G	7401366.86	7401366.91	7401366.99	0.0072	0.0064
Mars	15552-12-03 02:24 G	7401647.45	7401647.60	7401647.74	0.1585	0.0389
Venus	15554-01-10 20:09 G	7402051.33	7402051.34	7402051.35	0.3688	0.3654
Mars	15557-08-26 03:21 G	7403374.56	7403374.64	7403374.72	0.1951	0.1469
Jupiter	15557-11-16 06:00 G	7403456.73	7403456.75	7403456.76	0.0537	0.0533
Jupiter	15558-02-14 00:43 G	7403546.39	7403546.53	7403546.66	0.0540	0.0211
Venus	15559-07-27 15:21 G	7404075.04	7404075.14	7404075.23	0.3688	0.2150
Moon	15560-04-15 19:26 G	7404338.19	7404338.31	7404338.44	0.2654	0.0219
Earth	15560-04-15 20:09 G	7404338.22	7404338.34	7404338.47	0.2649	0.0053 *
Saturn	15561-07-29 11:16 G	7404807.89	7404807.97	7404808.07	0.0282	0.0227
Saturn	15561-10-26 03:07 G	7404896.49	7404896.63	7404896.77	0.0282	0.0117
Saturn	15562-01-22 18:57 G	7404985.14	7404985.29	7404985.45	0.0282	0.0009
Saturn	15562-04-21 11:16 G	7405073.83	7405073.97	7405074.12	0.0282	0.0113
Mars	15562-04-25 08:52 G	7405077.76	7405077.87	7405077.98	0.1586	0.1049
Saturn	15562-07-19 04:04 G	7405162.59	7405162.67	7405162.77	0.0282	0.0231
Moon	15562-10-15 07:55 G	7405250.70	7405250.83	7405250.96	0.2688	0.0557
Earth	15562-10-15 08:09 G	7405250.71	7405250.84	7405250.97	0.2682	0.0653 *
Jupiter	15563-10-01 11:16 G	7405601.82	7405601.97	7405602.12	0.0489	0.0052
Venus	15565-02-09 10:04 G	7406098.81	7406098.92	7406099.03	0.3688	0.0713
Venus	15566-08-23 14:24 G	7406658.99	7406659.10	7406659.20	0.3682	0.2163
Mars	15567-01-16 08:38 G	7406804.74	7406804.86	7406804.98	0.1951	0.0397

Jupiter	15569-12-03 00:43 G	7407856.39	7407856.53	7407856.68	0.0539	0.0016
Venus	15570-08-26 04:33 G	7408122.58	7408122.69	7408122.81	0.3689	0.0690
Venus	15572-03-08 13:26 G	7408682.93	7408683.06	7408683.19	0.3682	0.0253
Moon	15573-04-18 16:33 G	7409089.10	7409089.19	7409089.28	0.2657	0.1646
Earth	15573-04-18 16:48 G	7409089.10	7409089.20	7409089.29	0.2650	0.1623 *
Mars	15573-08-21 14:09 G	7409213.98	7409214.09	7409214.20	0.1586	0.1062
Jupiter	15575-07-20 13:40 G	7409911.92	7409912.07	7409912.22	0.0490	0.0085
Saturn	15576-03-06 10:33 G	7410141.83	7410141.94	7410142.06	0.0277	0.0178
Venus	15576-03-10 23:02 G	7410146.36	7410146.46	7410146.55	0.3689	0.2028
Saturn	15576-06-03 01:55 G	7410230.43	7410230.58	7410230.73	0.0277	0.0070
Mars	15576-06-07 13:55 G	7410234.96	7410235.08	7410235.19	0.1952	0.0683
Saturn	15576-08-30 16:48 G	7410319.05	7410319.20	7410319.35	0.0277	0.0036
Saturn	15576-11-27 07:12 G	7410407.68	7410407.80	7410407.93	0.0277	0.0140
Saturn	15577-02-23 21:36 G	7410496.32	7410496.40	7410496.47	0.0277	0.0240
Venus	15577-09-22 12:57 G	7410706.93	7410707.04	7410707.16	0.3681	0.1792
Jupiter	15581-09-21 01:40 G	7412166.43	7412166.57	7412166.71	0.0539	0.0174
Venus	15581-09-24 17:02 G	7412170.16	7412170.21	7412170.26	0.3690	0.3320
Mars	15583-01-11 20:24 G	7412644.20	7412644.35	7412644.49	0.1586	0.0378
Uranus	15584-03-22 09:21 G	7413079.85	7413079.89	7413079.95	0.0146	0.0139
Uranus	15584-06-18 15:21 G	7413168.05	7413168.14	7413168.25	0.0146	0.0114
Uranus	15584-09-14 21:21 G	7413256.27	7413256.39	7413256.53	0.0145	0.0089
Uranus	15584-12-12 03:21 G	7413344.50	7413344.64	7413344.80	0.0145	0.0063
Uranus	15585-03-10 09:36 G	7413432.74	7413432.90	7413433.06	0.0145	0.0037
Uranus	15585-06-06 15:50 G	7413520.99	7413521.16	7413521.32	0.0145	0.0012
Uranus	15585-09-02 21:50 G	7413609.25	7413609.41	7413609.58	0.0145	0.0015
Mars	15585-10-28 18:43 G	7413665.23	7413665.28	7413665.33	0.1950	0.1795
Uranus	15585-11-30 04:04 G	7413697.51	7413697.67	7413697.84	0.0145	0.0041
Uranus	15586-02-26 10:19 G	7413785.79	7413785.93	7413786.09	0.0145	0.0067
Uranus	15586-05-25 16:48 G	7413874.07	7413874.20	7413874.33	0.0145	0.0093
Uranus	15586-08-21 23:02 G	7413962.38	7413962.46	7413962.56	0.0145	0.0120

Jupiter 15587-05-08 16:04 G 7414222.04 7414222.17 7414222.31 0.0490 0.0223

Jupiter 15587-08-06 06:00 G 7414311.65 7414311.75 7414311.86 0.0488 0.0351

Saturn 15590-12-16 12:14 G 7415539.96 7415540.01 7415540.07 0.0281 0.0260

Saturn 15591-03-15 03:50 G 7415628.53 7415628.66 7415628.79 0.0282 0.0151

Saturn 15591-06-11 19:40 G 7415717.17 7415717.32 7415717.47 0.0282 0.0040

Saturn 15591-09-08 12:00 G 7415805.84 7415806.00 7415806.15 0.0282 0.0075

Saturn 15591-12-06 04:19 G 7415894.57 7415894.68 7415894.80 0.0282 0.0193

Mars 15592-06-03 02:38 G 7416074.47 7416074.61 7416074.76 0.1586 0.0295

Moon 15593-04-14 03:36 G 7416389.55 7416389.65 7416389.75 0.2648 0.1605

Earth 15593-04-14 04:33 G 7416389.59 7416389.69 7416389.80 0.2649 0.1406 *

Jupiter 15593-07-10 02:52 G 7416476.51 7416476.62 7416476.74 0.0538 0.0353

Jupiter 15593-10-07 21:07 G 7416566.28 7416566.38 7416566.49 0.0541 0.0384

Moon 15595-10-13 13:26 G 7417301.94 7417302.06 7417302.18 0.2687 0.1182

Earth 15595-10-13 14:09 G 7417301.97 7417302.09 7417302.22 0.2683 0.0984 *

Mars 15597-02-24 03:21 G 7417801.57 7417801.64 7417801.71 0.1951 0.1570

Jupiter 15599-02-24 18:43 G 7418532.18 7418532.28 7418532.38 0.0490 0.0358

Jupiter 15599-05-25 08:24 G 7418621.71 7418621.85 7418621.99 0.0488 0.0210

Mars 15601-10-24 09:07 G 7419504.77 7419504.88 7419505.00 0.1586 0.0951

Jupiter 15605-04-28 04:19 G 7420786.66 7420786.68 7420786.71 0.0538 0.0529

Saturn 15605-07-24 09:50 G 7420873.82 7420873.91 7420874.00 0.0277 0.0223

Jupiter 15605-07-26 23:16 G 7420876.33 7420876.47 7420876.60 0.0540 0.0216

Saturn 15605-10-21 01:12 G 7420962.41 7420962.55 7420962.69 0.0277 0.0114

Saturn 15606-01-17 16:19 G 7421051.02 7421051.18 7421051.33 0.0277 0.0009

Saturn 15606-04-16 06:43 G 7421139.65 7421139.78 7421139.93 0.0276 0.0098

Moon 15606-04-17 00:43 G 7421140.41 7421140.53 7421140.66 0.2655 0.0311

Earth 15606-04-17 01:26 G 7421140.43 7421140.56 7421140.68 0.2649 0.0307 *

Saturn 15606-07-13 21:07 G 7421228.28 7421228.38 7421228.49 0.0276 0.0199

Mars 15606-07-17 08:52 G 7421231.75 7421231.87 7421231.99 0.1952 0.0514

Moon 15608-10-15 13:40 G 7422052.95 7422053.07 7422053.19 0.2689 0.1152

Earth 15608-10-15 13:40 G 7422052.95 7422053.07 7422053.19 0.2682 0.1069 *

Venus 15610-08-17 18:28 G 7422724.22 7422724.27 7422724.33 0.3688 0.3190

Jupiter 15611-03-13 10:04 G 7422931.77 7422931.92 7422932.08 0.0489 0.0064

Mars 15613-02-19 14:38 G 7423641.01 7423641.11 7423641.21 0.1586 0.1164

Mars 15615-12-07 13:55 G 7424661.96 7424662.08 7424662.20 0.1951 0.0579

Venus 15616-03-02 13:40 G 7424747.97 7424748.07 7424748.17 0.3688 0.1705

Jupiter 15617-05-15 00:28 G 7425186.38 7425186.52 7425186.67 0.0539 0.0040

Venus 15617-09-13 15:07 G 7425308.08 7425308.13 7425308.17 0.3683 0.3432

Moon 15619-04-19 21:50 G 7425891.33 7425891.41 7425891.50 0.2656 0.1919

Earth 15619-04-19 21:50 G 7425891.33 7425891.41 7425891.49 0.2650 0.1970 *

Saturn 15620-08-01 03:21 G 7426360.54 7426360.64 7426360.76 0.0282 0.0193

Saturn 15620-10-28 19:12 G 7426449.15 7426449.30 7426449.45 0.0282 0.0082

Saturn 15621-01-25 11:16 G 7426537.82 7426537.97 7426538.13 0.0282 0.0032

Saturn 15621-04-24 03:50 G 7426626.52 7426626.66 7426626.79 0.0282 0.0148

Saturn 15621-07-21 20:38 G 7426715.31 7426715.36 7426715.41 0.0282 0.0267

Venus 15621-09-16 08:24 G 7426771.73 7426771.85 7426771.96 0.3689 0.0279

Mars 15622-07-12 20:38 G 7427071.22 7427071.36 7427071.51 0.1585 0.0474

Neptune 15622-12-29 06:57 G 7427240.75 7427240.79 7427240.85 0.0088 0.0083

Jupiter 15622-12-30 12:28 G 7427241.87 7427242.02 7427242.17 0.0489 0.0076

Neptune 15623-03-27 08:52 G 7427328.81 7427328.87 7427328.96 0.0088 0.0076

Venus 15623-03-30 13:40 G 7427331.96 7427332.07 7427332.19 0.3682 0.1582

Neptune 15623-06-23 11:16 G 7427416.88 7427416.97 7427417.07 0.0088 0.0068

Neptune 15623-09-19 13:12 G 7427504.95 7427505.05 7427505.18 0.0088 0.0061

Neptune 15623-12-16 15:21 G 7427593.02 7427593.14 7427593.28 0.0088 0.0053

Neptune 15624-03-13 17:45 G 7427681.10 7427681.24 7427681.38 0.0088 0.0045

Neptune 15624-06-09 19:40 G 7427769.19 7427769.32 7427769.47 0.0088 0.0038

Neptune 15624-09-05 21:50 G 7427857.27 7427857.41 7427857.57 0.0088 0.0030

Neptune 15624-12-03 00:14 G 7427945.35 7427945.51 7427945.66 0.0088 0.0022

Neptune 15625-03-01 02:24 G 7428033.44 7428033.60 7428033.76 0.0088 0.0014

Mars 15625-04-28 18:43 G 7428092.22 7428092.28 7428092.34 0.1951 0.1701

Neptune 15625-05-28 04:33 G 7428121.53 7428121.69 7428121.85 0.0088 0.0006

Neptune	15625-08-24 06:43 G	7428209.62	7428209.78	7428209.95	0.0088	0.0003
Neptune	15625-11-20 08:52 G	7428297.72	7428297.87	7428298.04	0.0088	0.0010
Neptune	15626-02-16 11:16 G	7428385.81	7428385.97	7428386.13	0.0088	0.0017
Neptune	15626-05-15 13:26 G	7428473.91	7428474.06	7428474.22	0.0088	0.0025
Neptune	15626-08-11 15:36 G	7428562.01	7428562.15	7428562.31	0.0088	0.0033
Uranus	15626-10-06 08:52 G	7428617.80	7428617.87	7428617.94	0.0133	0.0117
Neptune	15626-11-07 18:00 G	7428650.11	7428650.25	7428650.39	0.0088	0.0041
Uranus	15627-01-02 12:43 G	7428705.94	7428706.03	7428706.14	0.0133	0.0099
Neptune	15627-02-03 20:09 G	7428738.21	7428738.34	7428738.48	0.0088	0.0049
Uranus	15627-03-31 16:48 G	7428794.09	7428794.20	7428794.33	0.0133	0.0081
Venus	15627-04-02 02:52 G	7428795.51	7428795.62	7428795.73	0.3689	0.1106
Neptune	15627-05-02 22:19 G	7428826.32	7428826.43	7428826.56	0.0088	0.0057
Uranus	15627-06-27 20:52 G	7428882.25	7428882.37	7428882.51	0.0133	0.0063
Neptune	15627-07-30 00:43 G	7428914.43	7428914.53	7428914.64	0.0088	0.0065
Uranus	15627-09-24 00:57 G	7428970.40	7428970.54	7428970.69	0.0133	0.0045
Neptune	15627-10-26 03:07 G	7429002.54	7429002.63	7429002.72	0.0088	0.0073
Uranus	15627-12-21 05:02 G	7429058.56	7429058.71	7429058.86	0.0133	0.0027
Neptune	15628-01-22 04:48 G	7429090.67	7429090.70	7429090.78	0.0088	0.0082
Uranus	15628-03-18 09:07 G	7429146.73	7429146.88	7429147.02	0.0133	0.0010
Uranus	15628-06-14 12:57 G	7429234.89	7429235.04	7429235.19	0.0133	0.0009
Uranus	15628-09-10 16:48 G	7429323.06	7429323.20	7429323.35	0.0133	0.0027
Earth	15628-10-10 20:38 G	7429353.33	7429353.36	7429353.40	0.2684	0.2559
Venus	15628-10-13 12:57 G	7429355.91	7429356.04	7429356.17	0.3682	0.0382
Uranus	15628-12-07 20:38 G	7429411.22	7429411.36	7429411.50	0.0133	0.0045
Jupiter	15629-03-03 00:28 G	7429496.38	7429496.52	7429496.67	0.0538	0.0163
Uranus	15629-03-06 00:28 G	7429499.39	7429499.52	7429499.65	0.0133	0.0062
Uranus	15629-06-02 04:19 G	7429587.57	7429587.68	7429587.80	0.0133	0.0079
Uranus	15629-08-29 08:09 G	7429675.74	7429675.84	7429675.94	0.0133	0.0097
Uranus	15629-11-25 12:00 G	7429763.93	7429764.00	7429764.07	0.0133	0.0114
Uranus	15630-02-21 15:21 G	7429852.13	7429852.14	7429852.18	0.0133	0.0132

Mars 15631-12-03 02:52 G 7430501.48 7430501.62 7430501.77 0.1586 0.0207

Venus 15632-10-15 21:07 G 7430819.30 7430819.38 7430819.46 0.3690 0.2437

Venus 15634-04-29 12:43 G 7431379.93 7431380.03 7431380.13 0.3681 0.2435

Pluto 15634-06-01 23:31 G 7431413.41 7431413.48 7431413.56 0.0074 0.0067

Pluto 15634-08-29 01:55 G 7431501.45 7431501.58 7431501.72 0.0073 0.0052

Jupiter 15634-10-18 14:52 G 7431551.98 7431552.12 7431552.26 0.0490 0.0214

Pluto 15634-11-25 03:50 G 7431589.52 7431589.66 7431589.85 0.0073 0.0038

Saturn 15634-12-11 12:00 G 7431605.93 7431606.00 7431606.07 0.0278 0.0249

Jupiter 15635-01-16 05:02 G 7431641.60 7431641.71 7431641.81 0.0488 0.0361

Pluto 15635-02-21 06:28 G 7431677.60 7431677.77 7431677.97 0.0073 0.0022

Saturn 15635-03-10 03:21 G 7431694.51 7431694.64 7431694.78 0.0277 0.0139

Pluto 15635-05-20 09:07 G 7431765.69 7431765.88 7431766.07 0.0073 0.0007

Saturn 15635-06-06 18:28 G 7431783.12 7431783.27 7431783.43 0.0277 0.0032

Pluto 15635-08-16 11:16 G 7431853.78 7431853.97 7431854.17 0.0073 0.0008

Saturn 15635-09-03 09:21 G 7431871.74 7431871.89 7431872.04 0.0277 0.0074

Pluto 15635-11-12 13:40 G 7431941.89 7431942.07 7431942.26 0.0073 0.0022

Saturn 15635-11-30 23:45 G 7431960.38 7431960.49 7431960.61 0.0277 0.0176

Pluto 15636-02-08 15:36 G 7432030.00 7432030.15 7432030.34 0.0073 0.0037

Saturn 15636-02-27 13:55 G 7432049.07 7432049.08 7432049.09 0.0277 0.0276

Pluto 15636-05-06 18:00 G 7432118.13 7432118.25 7432118.40 0.0073 0.0051

Pluto 15636-08-02 20:09 G 7432206.27 7432206.34 7432206.44 0.0072 0.0065

Mars 15636-08-25 03:36 G 7432228.59 7432228.65 7432228.71 0.1951 0.1674

Moon 15639-04-15 08:52 G 7433191.76 7433191.87 7433191.99 0.2650 0.1121

Earth 15639-04-15 09:50 G 7433191.80 7433191.91 7433192.03 0.2649 0.1046 *

Jupiter 15640-12-20 01:26 G 7433806.45 7433806.56 7433806.67 0.0538 0.0349

Jupiter 15641-03-19 19:40 G 7433896.22 7433896.32 7433896.42 0.0540 0.0386

Mars 15641-04-24 09:36 G 7433931.77 7433931.90 7433932.02 0.1586 0.0859

Moon 15641-10-13 18:57 G 7434104.17 7434104.29 7434104.42 0.2688 0.0609

Earth 15641-10-13 19:55 G 7434104.20 7434104.33 7434104.46 0.2683 0.0576 *

Mars 15646-01-15 09:07 G 7435658.76 7435658.88 7435659.00 0.1952 0.0626

Jupiter 15646-08-06 17:16 G 7435862.12 7435862.22 7435862.33 0.0491 0.0350

Jupiter 15646-11-04 06:57 G 7435951.65 7435951.79 7435951.93 0.0488 0.0219

Saturn 15649-12-19 04:48 G 7437092.61 7437092.70 7437092.79 0.0281 0.0224

Saturn 15650-03-17 20:24 G 7437181.21 7437181.35 7437181.49 0.0281 0.0114

Saturn 15650-06-14 12:14 G 7437269.85 7437270.01 7437270.17 0.0282 0.0002

Saturn 15650-09-11 04:33 G 7437358.55 7437358.69 7437358.83 0.0282 0.0113

Mars 15650-09-14 16:19 G 7437362.13 7437362.18 7437362.22 0.1586 0.1505

Saturn 15650-12-08 21:07 G 7437447.30 7437447.38 7437447.48 0.0282 0.0231

Moon 15652-04-17 06:00 G 7437942.63 7437942.75 7437942.87 0.2655 0.0524

Earth 15652-04-17 06:43 G 7437942.66 7437942.78 7437942.90 0.2649 0.0665 *

Mars 15652-08-20 15:07 G 7438068.04 7438068.13 7438068.22 0.1586 0.1263

Jupiter 15652-10-08 02:24 G 7438116.58 7438116.60 7438116.61 0.0537 0.0532

Jupiter 15653-01-05 21:07 G 7438206.25 7438206.38 7438206.52 0.0540 0.0212

Earth 15654-10-16 19:12 G 7438855.19 7438855.30 7438855.41 0.2682 0.1497

Moon 15654-10-16 19:26 G 7438855.20 7438855.31 7438855.42 0.2689 0.1433 *

Mars 15655-06-07 14:09 G 7439088.97 7439089.09 7439089.21 0.1951 0.0467

Jupiter 15658-05-25 19:55 G 7440172.31 7440172.33 7440172.36 0.0491 0.0484

Jupiter 15658-08-23 09:21 G 7440261.74 7440261.89 7440262.04 0.0489 0.0079

Mars 15662-01-10 21:07 G 7441498.24 7441498.38 7441498.52 0.1585 0.0575

Saturn 15664-07-27 02:38 G 7442426.50 7442426.61 7442426.74 0.0277 0.0183

Saturn 15664-10-23 18:00 G 7442515.11 7442515.25 7442515.40 0.0277 0.0075

Jupiter 15664-10-24 23:02 G 7442516.31 7442516.46 7442516.60 0.0540 0.0043

Mars 15664-10-27 18:57 G 7442519.22 7442519.29 7442519.37 0.1951 0.1580

Saturn 15665-01-20 09:07 G 7442603.73 7442603.88 7442604.03 0.0277 0.0032

Saturn 15665-04-18 23:31 G 7442692.35 7442692.48 7442692.61 0.0276 0.0135

Earth 15665-04-20 03:07 G 7442693.57 7442693.63 7442693.69 0.2650 0.2316

Moon 15665-04-20 03:21 G 7442693.59 7442693.64 7442693.69 0.2656 0.2417 *

Saturn 15665-07-16 13:40 G 7442781.00 7442781.07 7442781.15 0.0276 0.0236

Venus 15667-03-24 17:02 G 7443397.13 7443397.21 7443397.29 0.3688 0.2723

Uranus 15668-04-11 17:45 G 7443781.17 7443781.24 7443781.32 0.0146 0.0128

Uranus	15668-07-08 23:45	G	7443869.38	7443869.49	7443869.61	0.0146	0.0103
Uranus	15668-10-05 05:45	G	7443957.61	7443957.74	7443957.88	0.0145	0.0078
Uranus	15669-01-01 11:45	G	7444045.84	7444045.99	7444046.15	0.0145	0.0053
Uranus	15669-03-30 18:00	G	7444134.09	7444134.25	7444134.41	0.0145	0.0027
Uranus	15669-06-27 00:00	G	7444222.34	7444222.50	7444222.67	0.0145	0.0003
Uranus	15669-09-23 06:14	G	7444310.60	7444310.76	7444310.93	0.0145	0.0025
Uranus	15669-12-20 12:28	G	7444398.87	7444399.02	7444399.18	0.0145	0.0051
Uranus	15670-03-18 18:43	G	7444487.14	7444487.28	7444487.43	0.0145	0.0077
Jupiter	15670-06-11 11:16	G	7444571.82	7444571.97	7444572.12	0.0489	0.0065
Uranus	15670-06-15 01:12	G	7444575.43	7444575.55	7444575.67	0.0145	0.0104
Uranus	15670-09-11 07:26	G	7444663.75	7444663.81	7444663.89	0.0145	0.0130
Mars	15671-06-03 03:21	G	7444928.49	7444928.64	7444928.79	0.1585	0.0103
Moon	15672-04-12 17:16	G	7445243.19	7445243.22	7445243.25	0.2645	0.2553
Earth	15672-04-12 18:14	G	7445243.21	7445243.26	7445243.31	0.2648	0.2426 *
Venus	15672-10-07 12:00	G	7445420.89	7445421.00	7445421.11	0.3688	0.1257
Venus	15674-04-20 14:24	G	7445981.02	7445981.10	7445981.18	0.3682	0.2872
Moon	15674-10-12 01:12	G	7446155.48	7446155.55	7446155.61	0.2686	0.2301
Earth	15674-10-12 02:09	G	7446155.52	7446155.59	7446155.67	0.2683	0.2157 *
Mars	15676-02-24 03:36	G	7446655.61	7446655.65	7446655.70	0.1951	0.1785
Jupiter	15676-08-13 00:14	G	7446826.37	7446826.51	7446826.66	0.0539	0.0137
Venus	15678-04-23 06:43	G	7447444.66	7447444.78	7447444.89	0.3689	0.0181
Saturn	15679-05-08 04:04	G	7447824.63	7447824.67	7447824.72	0.0281	0.0267
Saturn	15679-08-04 19:40	G	7447913.19	7447913.32	7447913.45	0.0282	0.0158
Saturn	15679-11-01 11:31	G	7448001.83	7448001.98	7448002.13	0.0282	0.0047
Venus	15679-11-04 13:12	G	7448004.93	7448005.05	7448005.18	0.3682	0.0994
Saturn	15680-01-29 03:36	G	7448090.50	7448090.65	7448090.80	0.0282	0.0068
Saturn	15680-04-26 20:09	G	7448179.22	7448179.34	7448179.46	0.0282	0.0185
Mars	15680-10-23 09:50	G	7448358.78	7448358.91	7448359.04	0.1586	0.0769
Jupiter	15682-03-30 13:40	G	7448881.93	7448882.07	7448882.21	0.0490	0.0204
Jupiter	15682-06-28 03:36	G	7448971.56	7448971.65	7448971.76	0.0488	0.0371

Venus 15683-11-07 01:12 G 7449468.44 7449468.55 7449468.65 0.3689 0.1534

Moon 15685-04-15 14:24 G 7449993.98 7449994.10 7449994.22 0.2652 0.0817

Earth 15685-04-15 15:07 G 7449994.01 7449994.13 7449994.25 0.2649 0.0681 *

Venus 15685-05-20 12:43 G 7450028.90 7450029.03 7450029.15 0.3681 0.0997

Mars 15685-07-16 09:07 G 7450085.77 7450085.88 7450086.00 0.1951 0.0723

Moon 15687-10-15 00:57 G 7450906.41 7450906.54 7450906.67 0.2688 0.0267

Earth 15687-10-15 01:26 G 7450906.43 7450906.56 7450906.69 0.2683 0.0153 *

Jupiter 15688-06-01 00:14 G 7451136.40 7451136.51 7451136.63 0.0537 0.0336

Jupiter 15688-08-29 18:28 G 7451226.18 7451226.27 7451226.37 0.0540 0.0398

Venus 15689-05-22 19:12 G 7451492.23 7451492.30 7451492.37 0.3690 0.2845

Mars 15690-03-15 16:33 G 7451789.12 7451789.19 7451789.25 0.1586 0.1416

Venus 15690-12-04 12:28 G 7452052.95 7452053.02 7452053.09 0.3681 0.3088

Mars 15692-02-19 15:21 G 7452495.06 7452495.14 7452495.22 0.1586 0.1357

Saturn 15693-12-14 04:48 G 7453158.60 7453158.70 7453158.80 0.0278 0.0210

Jupiter 15694-01-16 16:04 G 7453192.06 7453192.17 7453192.28 0.0491 0.0342

Saturn 15694-03-12 20:09 G 7453247.20 7453247.34 7453247.49 0.0278 0.0100

Jupiter 15694-04-16 05:45 G 7453281.61 7453281.74 7453281.88 0.0489 0.0229

Saturn 15694-06-09 11:16 G 7453335.82 7453335.97 7453336.12 0.0277 0.0007

Saturn 15694-09-06 01:55 G 7453424.44 7453424.58 7453424.72 0.0277 0.0112

Saturn 15694-12-03 16:19 G 7453513.09 7453513.18 7453513.27 0.0277 0.0213

Mars 15694-12-06 14:24 G 7453515.97 7453516.10 7453516.22 0.1952 0.0362

Moon 15698-04-18 11:16 G 7454744.86 7454744.97 7454745.09 0.2655 0.1020

Earth 15698-04-18 11:45 G 7454744.88 7454744.99 7454745.11 0.2649 0.1017 *

Jupiter 15700-03-21 00:57 G 7455446.51 7455446.54 7455446.57 0.0537 0.0525

Jupiter 15700-06-18 19:40 G 7455536.19 7455536.32 7455536.45 0.0540 0.0217

Earth 15700-10-18 00:57 G 7455657.45 7455657.54 7455657.63 0.2682 0.1919

Moon 15700-10-18 01:12 G 7455657.46 7455657.55 7455657.63 0.2689 0.2031 *

Mars 15701-07-12 21:36 G 7455925.26 7455925.40 7455925.53 0.1585 0.0673

Mars 15704-04-28 19:12 G 7456946.22 7456946.30 7456946.39 0.1951 0.1467

Jupiter 15705-11-05 18:43 G 7457502.25 7457502.28 7457502.31 0.0491 0.0477

Neptune 15705-12-31 04:04 G 7457557.65 7457557.67 7457557.70 0.0089 0.0088

Jupiter 15706-02-03 07:55 G 7457591.68 7457591.83 7457591.98 0.0489 0.0088

Neptune 15706-03-29 06:00 G 7457645.69 7457645.75 7457645.83 0.0089 0.0080

Neptune 15706-06-25 08:09 G 7457733.76 7457733.84 7457733.95 0.0089 0.0072

Neptune 15706-09-21 10:19 G 7457821.83 7457821.93 7457822.05 0.0089 0.0064

Neptune 15706-12-18 12:28 G 7457909.91 7457910.02 7457910.16 0.0089 0.0056

Neptune 15707-03-16 14:38 G 7457997.99 7457998.11 7457998.25 0.0089 0.0047

Neptune 15707-06-12 16:48 G 7458086.07 7458086.20 7458086.35 0.0089 0.0039

Neptune 15707-09-08 19:12 G 7458174.15 7458174.30 7458174.45 0.0089 0.0031

Neptune 15707-12-05 21:21 G 7458262.24 7458262.39 7458262.54 0.0089 0.0023

Neptune 15708-03-02 23:16 G 7458350.32 7458350.47 7458350.63 0.0089 0.0015

Neptune 15708-05-30 01:26 G 7458438.41 7458438.56 7458438.71 0.0089 0.0007

Neptune 15708-08-26 03:36 G 7458526.49 7458526.65 7458526.80 0.0089 0.0002

Neptune 15708-11-22 05:31 G 7458614.58 7458614.73 7458614.89 0.0089 0.0009

Saturn 15708-12-22 21:21 G 7458645.28 7458645.39 7458645.50 0.0281 0.0186

Neptune 15709-02-18 07:26 G 7458702.67 7458702.81 7458702.97 0.0089 0.0018

Saturn 15709-03-21 12:57 G 7458733.89 7458734.04 7458734.19 0.0281 0.0076

Neptune 15709-05-17 09:36 G 7458790.76 7458790.90 7458791.05 0.0089 0.0025

Saturn 15709-06-18 05:02 G 7458822.55 7458822.71 7458822.86 0.0282 0.0037

Neptune 15709-08-13 11:45 G 7458878.85 7458878.99 7458879.13 0.0089 0.0033

Saturn 15709-09-14 21:21 G 7458911.26 7458911.39 7458911.53 0.0282 0.0153

Neptune 15709-11-09 13:40 G 7458966.94 7458967.07 7458967.21 0.0089 0.0040

Saturn 15709-12-12 14:09 G 7459000.05 7459000.09 7459000.13 0.0282 0.0271

Neptune 15710-02-05 15:36 G 7459055.03 7459055.15 7459055.29 0.0089 0.0048

Neptune 15710-05-04 17:31 G 7459143.12 7459143.23 7459143.36 0.0089 0.0056

Uranus 15710-07-31 12:28 G 7459230.99 7459231.02 7459231.07 0.0133 0.0128

Neptune 15710-07-31 19:40 G 7459231.22 7459231.32 7459231.43 0.0089 0.0064

Uranus 15710-10-27 16:48 G 7459319.12 7459319.20 7459319.29 0.0133 0.0109

Neptune 15710-10-27 21:36 G 7459319.32 7459319.40 7459319.50 0.0089 0.0071

Mars 15710-12-03 03:50 G 7459355.51 7459355.66 7459355.81 0.1585 0.0033

Uranus 15711-01-23 20:52 G 7459407.26 7459407.37 7459407.48 0.0133 0.0091

Neptune 15711-01-23 23:16 G 7459407.42 7459407.47 7459407.56 0.0089 0.0080 *

Uranus 15711-04-22 00:43 G 7459495.42 7459495.53 7459495.67 0.0133 0.0073

Neptune 15711-04-22 01:26 G 7459495.54 7459495.56 7459495.61 0.0089 0.0087 *

Moon 15711-04-22 08:38 G 7459495.86 7459495.86 7459495.87 0.2657 0.2649

Uranus 15711-07-19 05:02 G 7459583.57 7459583.71 7459583.85 0.0133 0.0054

Uranus 15711-10-15 09:07 G 7459671.73 7459671.88 7459672.02 0.0133 0.0036

Uranus 15712-01-11 12:57 G 7459759.90 7459760.04 7459760.19 0.0133 0.0019

Jupiter 15712-04-06 20:52 G 7459846.23 7459846.37 7459846.52 0.0539 0.0041

Uranus 15712-04-08 17:02 G 7459848.06 7459848.21 7459848.36 0.0133 0.0001

Uranus 15712-07-05 20:52 G 7459936.23 7459936.37 7459936.52 0.0133 0.0017

Uranus 15712-10-02 00:43 G 7460024.39 7460024.53 7460024.68 0.0133 0.0035

Uranus 15712-12-29 04:33 G 7460112.56 7460112.69 7460112.83 0.0133 0.0053

Uranus 15713-03-27 08:24 G 7460200.73 7460200.85 7460200.98 0.0133 0.0070

Uranus 15713-06-23 12:14 G 7460288.91 7460289.01 7460289.13 0.0133 0.0087

Uranus 15713-09-19 16:04 G 7460377.08 7460377.17 7460377.26 0.0133 0.0104

Uranus 15713-12-16 19:55 G 7460465.27 7460465.33 7460465.39 0.0133 0.0122

Mars 15715-08-26 03:50 G 7461082.64 7461082.66 7461082.69 0.1951 0.1892

Jupiter 15717-11-22 10:19 G 7461901.78 7461901.93 7461902.09 0.0489 0.0051

Moon 15718-04-14 22:33 G 7462045.37 7462045.44 7462045.51 0.2646 0.2150

Earth 15718-04-14 23:31 G 7462045.40 7462045.48 7462045.56 0.2648 0.2057 *

Mars 15720-04-24 10:19 G 7462785.79 7462785.93 7462786.06 0.1586 0.0672

Moon 15720-10-13 06:43 G 7462957.69 7462957.78 7462957.87 0.2686 0.1884

Earth 15720-10-13 07:40 G 7462957.72 7462957.82 7462957.92 0.2683 0.1758 *

Saturn 15723-05-04 04:19 G 7463890.62 7463890.68 7463890.75 0.0277 0.0252

Saturn 15723-07-31 19:55 G 7463979.20 7463979.33 7463979.46 0.0277 0.0142

Saturn 15723-10-28 11:02 G 7464067.81 7464067.96 7464068.11 0.0277 0.0034

Venus 15723-10-30 15:21 G 7464070.05 7464070.14 7464070.23 0.3688 0.2265

Jupiter 15724-01-24 22:33 G 7464156.30 7464156.44 7464156.58 0.0539 0.0135

Saturn 15724-01-25 01:55 G 7464156.43 7464156.58 7464156.73 0.0277 0.0071 *

Saturn	15724-04-22 16:19 G	7464245.07	7464245.18	7464245.30	0.0276	0.0174
Saturn	15724-07-20 06:28 G	7464333.76	7464333.77	7464333.79	0.0276	0.0273
Mars	15725-01-15 09:21 G	7464512.77	7464512.89	7464513.00	0.1952	0.0835
Venus	15729-05-15 10:19 G	7466093.82	7466093.93	7466094.04	0.3689	0.0810
Jupiter	15729-09-10 12:28 G	7466211.88	7466212.02	7466212.16	0.0490	0.0194
Mars	15729-09-14 16:48 G	7466216.12	7466216.20	7466216.28	0.1586	0.1323
Jupiter	15729-12-09 02:24 G	7466301.51	7466301.60	7466301.70	0.0488	0.0380
Venus	15730-11-26 13:40 G	7466653.97	7466654.07	7466654.17	0.3682	0.2307
Moon	15731-04-17 19:40 G	7466796.19	7466796.32	7466796.44	0.2653	0.0436
Earth	15731-04-17 20:24 G	7466796.23	7466796.35	7466796.47	0.2649	0.0322 *
Mars	15731-08-21 15:50 G	7466922.11	7466922.16	7466922.22	0.1585	0.1464
Moon	15733-10-16 06:43 G	7467708.65	7467708.78	7467708.91	0.2689	0.0241
Earth	15733-10-16 06:57 G	7467708.66	7467708.79	7467708.92	0.2682	0.0261 *
Mars	15734-06-07 14:38 G	7467942.98	7467943.11	7467943.23	0.1951	0.0244
Venus	15734-11-29 05:02 G	7468117.59	7468117.71	7468117.82	0.3689	0.0609
Jupiter	15735-11-12 23:45 G	7468466.37	7468466.49	7468466.61	0.0538	0.0314
Jupiter	15736-02-10 18:00 G	7468556.16	7468556.25	7468556.34	0.0541	0.0421
Venus	15736-06-11 12:43 G	7468677.90	7468678.03	7468678.16	0.3682	0.0406
Saturn	15738-05-11 20:38 G	7469377.28	7469377.36	7469377.45	0.0281	0.0230
Saturn	15738-08-08 12:14 G	7469465.87	7469466.01	7469466.15	0.0281	0.0121
Saturn	15738-11-05 04:04 G	7469554.52	7469554.67	7469554.83	0.0282	0.0009
Saturn	15739-02-01 20:24 G	7469643.20	7469643.35	7469643.49	0.0282	0.0106
Saturn	15739-05-01 12:57 G	7469731.95	7469732.04	7469732.14	0.0282	0.0224
Venus	15740-06-13 23:16 G	7470141.38	7470141.47	7470141.57	0.3689	0.1946
Mars	15741-01-10 21:50 G	7470352.28	7470352.41	7470352.54	0.1585	0.0767
Jupiter	15741-06-29 14:52 G	7470522.01	7470522.12	7470522.23	0.0491	0.0332
Jupiter	15741-09-27 04:33 G	7470611.56	7470611.69	7470611.83	0.0489	0.0238
Venus	15741-12-26 12:14 G	7470701.90	7470702.01	7470702.13	0.3681	0.1623
Mars	15743-10-28 19:12 G	7471373.22	7471373.30	7471373.39	0.1951	0.1371
Moon	15744-04-19 16:48 G	7471547.10	7471547.20	7471547.31	0.2656	0.1297

Earth 15744-04-19 17:02 G 7471547.11 7471547.21 7471547.32 0.2650 0.1369 *

Venus 15745-12-28 17:31 G 7472165.17 7472165.23 7472165.28 0.3690 0.3250

Earth 15746-10-19 06:28 G 7472459.71 7472459.77 7472459.84 0.2682 0.2351

Moon 15746-10-19 06:57 G 7472459.73 7472459.79 7472459.85 0.2688 0.2342 *

Jupiter 15747-08-31 23:45 G 7472776.45 7472776.49 7472776.54 0.0537 0.0512

Jupiter 15747-11-29 18:28 G 7472866.14 7472866.27 7472866.41 0.0539 0.0230

Mars 15750-06-03 04:04 G 7473782.52 7473782.67 7473782.82 0.1585 0.0088

Uranus 15752-02-04 19:40 G 7474394.32 7474394.32 7474394.33 0.0146 0.0145

Uranus 15752-05-03 01:26 G 7474482.48 7474482.56 7474482.66 0.0146 0.0121

Uranus 15752-07-30 07:26 G 7474570.69 7474570.81 7474570.94 0.0145 0.0096

Uranus 15752-10-26 13:26 G 7474658.92 7474659.06 7474659.21 0.0145 0.0070

Saturn 15752-12-17 21:50 G 7474711.28 7474711.41 7474711.53 0.0278 0.0170

Uranus 15753-01-22 19:26 G 7474747.16 7474747.31 7474747.47 0.0145 0.0045

Saturn 15753-03-16 12:57 G 7474799.89 7474800.04 7474800.19 0.0278 0.0062

Jupiter 15753-04-17 17:16 G 7474832.18 7474832.22 7474832.26 0.0492 0.0470

Uranus 15753-04-21 01:40 G 7474835.41 7474835.57 7474835.73 0.0145 0.0019

Saturn 15753-06-13 04:04 G 7474888.52 7474888.67 7474888.82 0.0278 0.0046

Jupiter 15753-07-16 06:28 G 7474921.62 7474921.77 7474921.93 0.0489 0.0096

Uranus 15753-07-18 07:55 G 7474923.66 7474923.83 7474923.99 0.0145 0.0008

Saturn 15753-09-09 18:28 G 7474977.15 7474977.27 7474977.40 0.0277 0.0150

Uranus 15753-10-14 13:55 G 7475011.92 7475012.08 7475012.25 0.0145 0.0033

Saturn 15753-12-07 08:52 G 7475065.81 7475065.87 7475065.93 0.0277 0.0250

Uranus 15754-01-10 20:09 G 7475100.19 7475100.34 7475100.50 0.0145 0.0059

Uranus 15754-04-09 02:24 G 7475188.47 7475188.60 7475188.74 0.0145 0.0085

Uranus 15754-07-06 08:38 G 7475276.77 7475276.86 7475276.98 0.0145 0.0112

Uranus 15754-10-02 15:21 G 7475365.09 7475365.14 7475365.19 0.0145 0.0138

Jupiter 15759-09-17 19:26 G 7477176.17 7477176.31 7477176.46 0.0539 0.0046

Mars 15759-10-24 10:33 G 7477212.80 7477212.94 7477213.08 0.1586 0.0577

Moon 15764-04-15 03:50 G 7478847.57 7478847.66 7478847.75 0.2648 0.1863

Earth 15764-04-15 04:48 G 7478847.60 7478847.70 7478847.80 0.2648 0.1687 *

Mars	15764-07-16 09:36 G	7478939.79	7478939.90	7478940.01	0.1952	0.0955
Jupiter	15765-05-04 08:52 G	7479231.72	7479231.87	7479232.02	0.0490	0.0045
Moon	15766-10-14 12:28 G	7479759.91	7479760.02	7479760.12	0.2686	0.1514
Earth	15766-10-14 13:12 G	7479759.94	7479760.05	7479760.17	0.2683	0.1352 *
Saturn	15767-09-28 22:48 G	7480109.40	7480109.45	7480109.52	0.0281	0.0255
Saturn	15767-12-26 14:09 G	7480197.97	7480198.09	7480198.23	0.0281	0.0147
Saturn	15768-03-24 06:00 G	7480286.60	7480286.75	7480286.91	0.0281	0.0036
Saturn	15768-06-20 22:04 G	7480375.27	7480375.42	7480375.58	0.0281	0.0079
Saturn	15768-09-17 14:38 G	7480464.00	7480464.11	7480464.23	0.0282	0.0195
Mars	15769-03-15 17:16 G	7480643.13	7480643.22	7480643.31	0.1586	0.1228
Mars	15771-02-19 16:19 G	7481349.15	7481349.18	7481349.20	0.1586	0.1564
Jupiter	15771-07-06 20:24 G	7481486.21	7481486.35	7481486.50	0.0539	0.0140
Mars	15773-12-06 14:38 G	7482369.99	7482370.11	7482370.24	0.1951	0.0143
Venus	15774-11-20 18:43 G	7482719.23	7482719.28	7482719.33	0.3688	0.3299
Jupiter	15777-02-20 11:16 G	7483541.83	7483541.97	7483542.11	0.0490	0.0182
Moon	15777-04-18 00:57 G	7483598.41	7483598.54	7483598.66	0.2653	0.0099
Earth	15777-04-18 01:40 G	7483598.44	7483598.57	7483598.69	0.2649	0.0042 *
Jupiter	15777-05-21 01:26 G	7483631.47	7483631.56	7483631.65	0.0488	0.0392
Moon	15779-10-17 12:14 G	7484510.89	7484511.01	7484511.14	0.2689	0.0651
Earth	15779-10-17 12:28 G	7484510.90	7484511.02	7484511.15	0.2682	0.0682 *
Venus	15780-06-05 13:55 G	7484742.98	7484743.08	7484743.18	0.3688	0.1812
Mars	15780-07-11 22:19 G	7484779.30	7484779.43	7484779.55	0.1585	0.0870
Venus	15781-12-17 14:38 G	7485303.08	7485303.11	7485303.14	0.3683	0.3564
Saturn	15782-05-06 21:36 G	7485443.31	7485443.40	7485443.51	0.0277	0.0210
Saturn	15782-08-03 13:12 G	7485531.90	7485532.05	7485532.19	0.0277	0.0100
Saturn	15782-10-31 04:19 G	7485620.52	7485620.68	7485620.83	0.0277	0.0010
Saturn	15783-01-27 18:57 G	7485709.15	7485709.29	7485709.43	0.0277	0.0111
Jupiter	15783-04-24 21:50 G	7485796.29	7485796.41	7485796.53	0.0538	0.0315
Saturn	15783-04-26 09:21 G	7485797.80	7485797.89	7485797.98	0.0277	0.0213
Mars	15783-04-28 19:40 G	7485800.22	7485800.32	7485800.41	0.1951	0.1249

Jupiter 15783-07-23 16:19 G 7485886.09 7485886.18 7485886.27 0.0541 0.0421

Venus 15785-12-20 08:38 G 7486766.75 7486766.86 7486766.97 0.3689 0.0368

Venus 15787-07-03 13:12 G 7487326.94 7487327.05 7487327.16 0.3682 0.1736

Neptune 15787-09-26 05:31 G 7487411.68 7487411.73 7487411.78 0.0088 0.0082

Neptune 15787-12-23 07:12 G 7487499.74 7487499.80 7487499.90 0.0088 0.0075

Neptune 15788-03-20 09:36 G 7487587.80 7487587.90 7487588.00 0.0088 0.0067

Neptune 15788-06-16 11:31 G 7487675.88 7487675.98 7487676.11 0.0088 0.0060

Neptune 15788-09-12 13:40 G 7487763.95 7487764.07 7487764.21 0.0088 0.0052

Jupiter 15788-12-09 13:26 G 7487851.95 7487852.06 7487852.18 0.0491 0.0324

Neptune 15788-12-09 16:04 G 7487852.03 7487852.17 7487852.31 0.0088 0.0044 *

Neptune 15789-03-07 18:00 G 7487940.11 7487940.25 7487940.40 0.0088 0.0037

Jupiter 15789-03-09 03:07 G 7487941.50 7487941.63 7487941.77 0.0488 0.0246

Neptune 15789-06-03 20:09 G 7488028.20 7488028.34 7488028.50 0.0088 0.0029

Neptune 15789-08-30 22:33 G 7488116.28 7488116.44 7488116.59 0.0088 0.0021

Neptune 15789-11-27 00:43 G 7488204.37 7488204.53 7488204.69 0.0088 0.0013

Mars 15789-12-02 04:33 G 7488209.54 7488209.69 7488209.83 0.1585 0.0192

Neptune 15790-02-23 02:52 G 7488292.46 7488292.62 7488292.78 0.0088 0.0005

Moon 15790-04-20 22:19 G 7488349.34 7488349.43 7488349.52 0.2656 0.1732

Earth 15790-04-20 22:19 G 7488349.34 7488349.43 7488349.52 0.2650 0.1717 *

Neptune 15790-05-22 05:02 G 7488380.55 7488380.71 7488380.87 0.0088 0.0002

Neptune 15790-08-18 07:12 G 7488468.64 7488468.80 7488468.96 0.0088 0.0010

Neptune 15790-11-14 09:36 G 7488556.74 7488556.90 7488557.05 0.0088 0.0018

Neptune 15791-02-10 11:45 G 7488644.83 7488644.99 7488645.14 0.0088 0.0026

Neptune 15791-05-09 13:55 G 7488732.93 7488733.08 7488733.23 0.0088 0.0034

Venus 15791-07-06 03:07 G 7488790.52 7488790.63 7488790.74 0.3689 0.1026

Neptune 15791-08-05 16:04 G 7488821.03 7488821.17 7488821.32 0.0088 0.0042

Neptune 15791-11-01 18:14 G 7488909.14 7488909.26 7488909.40 0.0088 0.0050

Neptune 15792-01-28 20:38 G 7488997.24 7488997.36 7488997.48 0.0088 0.0058

Neptune 15792-04-25 22:48 G 7489085.35 7489085.45 7489085.56 0.0088 0.0066

Neptune 15792-07-23 01:12 G 7489173.47 7489173.55 7489173.64 0.0088 0.0074

Neptune 15792-10-19 03:21 G 7489261.59 7489261.64 7489261.70 0.0088 0.0082

Venus 15793-01-16 12:28 G 7489350.89 7489351.02 7489351.15 0.3682 0.0249

Uranus 15794-08-20 20:38 G 7489932.30 7489932.36 7489932.43 0.0133 0.0119

Pluto 15794-09-08 15:50 G 7489951.13 7489951.16 7489951.22 0.0071 0.0067

Uranus 15794-11-17 00:43 G 7490020.44 7490020.53 7490020.63 0.0133 0.0101

Pluto 15794-12-05 16:48 G 7490039.12 7490039.20 7490039.28 0.0071 0.0057

Jupiter 15795-02-10 23:02 G 7490106.40 7490106.46 7490106.52 0.0537 0.0495

Uranus 15795-02-13 04:48 G 7490108.59 7490108.70 7490108.82 0.0133 0.0083

Pluto 15795-03-03 17:16 G 7490127.13 7490127.22 7490127.32 0.0071 0.0048

Jupiter 15795-05-11 17:45 G 7490196.12 7490196.24 7490196.37 0.0540 0.0248

Uranus 15795-05-12 08:52 G 7490196.74 7490196.87 7490197.01 0.0133 0.0065

Pluto 15795-05-30 18:00 G 7490215.14 7490215.25 7490215.37 0.0071 0.0039

Uranus 15795-08-08 12:57 G 7490284.90 7490285.04 7490285.18 0.0133 0.0047

Pluto 15795-08-26 18:28 G 7490303.16 7490303.27 7490303.40 0.0071 0.0030

Uranus 15795-11-04 17:02 G 7490373.06 7490373.21 7490373.36 0.0133 0.0028

Pluto 15795-11-22 19:26 G 7490391.18 7490391.31 7490391.44 0.0071 0.0020

Uranus 15796-01-31 21:07 G 7490461.23 7490461.38 7490461.53 0.0133 0.0011

Pluto 15796-02-18 20:09 G 7490479.21 7490479.34 7490479.47 0.0071 0.0011

Uranus 15796-04-29 00:57 G 7490549.39 7490549.54 7490549.69 0.0133 0.0008

Pluto 15796-05-16 20:52 G 7490567.24 7490567.37 7490567.50 0.0071 0.0001

Uranus 15796-07-26 04:48 G 7490637.56 7490637.70 7490637.85 0.0133 0.0025

Pluto 15796-08-12 21:36 G 7490655.27 7490655.40 7490655.53 0.0072 0.0008

Uranus 15796-10-22 08:38 G 7490725.73 7490725.86 7490726.01 0.0133 0.0043

Pluto 15796-11-08 22:19 G 7490743.30 7490743.43 7490743.56 0.0072 0.0018

Uranus 15797-01-18 12:28 G 7490813.90 7490814.02 7490814.16 0.0133 0.0061

Venus 15797-01-18 21:21 G 7490814.31 7490814.39 7490814.48 0.3690 0.2354

Pluto 15797-02-04 22:48 G 7490831.33 7490831.45 7490831.58 0.0072 0.0028

Uranus 15797-04-16 16:33 G 7490902.07 7490902.19 7490902.31 0.0133 0.0078

Pluto 15797-05-03 23:45 G 7490919.37 7490919.49 7490919.60 0.0072 0.0037

Saturn 15797-05-14 13:40 G 7490929.96 7490930.07 7490930.18 0.0281 0.0191

Uranus 15797-07-13 20:09 G 7490990.25 7490990.34 7490990.45 0.0133 0.0095

Pluto 15797-07-31 00:14 G 7491007.42 7491007.51 7491007.62 0.0072 0.0047

Saturn 15797-08-11 05:16 G 7491018.57 7491018.72 7491018.87 0.0281 0.0081

Uranus 15797-10-10 00:00 G 7491078.43 7491078.50 7491078.58 0.0133 0.0112

Pluto 15797-10-27 00:57 G 7491095.47 7491095.54 7491095.63 0.0072 0.0057

Saturn 15797-11-07 21:07 G 7491107.23 7491107.38 7491107.54 0.0282 0.0033

Uranus 15798-01-06 03:36 G 7491166.63 7491166.65 7491166.70 0.0133 0.0130

Pluto 15798-01-23 01:40 G 7491183.53 7491183.57 7491183.63 0.0072 0.0067

Saturn 15798-02-04 13:26 G 7491195.93 7491196.06 7491196.20 0.0282 0.0148

Saturn 15798-05-04 06:14 G 7491284.72 7491284.76 7491284.81 0.0282 0.0266

Venus 15798-08-02 12:00 G 7491374.89 7491375.00 7491375.10 0.3681 0.2247

Mars 15799-04-24 10:48 G 7491639.81 7491639.95 7491640.09 0.1585 0.0485

Jupiter 15800-09-28 16:04 G 7492162.12 7492162.17 7492162.22 0.0491 0.0460

Jupiter 15800-12-27 05:16 G 7492251.57 7492251.72 7492251.87 0.0489 0.0104

Venus 15802-08-05 15:36 G 7492838.13 7492838.15 7492838.16 0.3690 0.3649

Mars 15804-01-16 09:36 G 7493366.79 7493366.90 7493367.00 0.1952 0.1045

Jupiter 15807-02-28 18:28 G 7494506.12 7494506.27 7494506.41 0.0539 0.0058

Mars 15808-09-14 17:31 G 7495070.13 7495070.23 7495070.33 0.1586 0.1137

Moon 15810-04-17 09:07 G 7495649.77 7495649.88 7495649.99 0.2650 0.1380

Earth 15810-04-17 10:04 G 7495649.81 7495649.92 7495650.03 0.2648 0.1322 *

Saturn 15811-09-24 23:02 G 7496175.39 7496175.46 7496175.55 0.0278 0.0241

Saturn 15811-12-22 14:52 G 7496263.98 7496264.12 7496264.25 0.0278 0.0130

Saturn 15812-03-20 06:00 G 7496352.60 7496352.75 7496352.90 0.0278 0.0021

Saturn 15812-06-16 20:52 G 7496441.23 7496441.37 7496441.52 0.0278 0.0085

Saturn 15812-09-13 11:16 G 7496529.87 7496529.97 7496530.09 0.0278 0.0188

Jupiter 15812-10-15 07:26 G 7496561.65 7496561.81 7496561.96 0.0490 0.0041

Moon 15812-10-15 18:00 G 7496562.13 7496562.25 7496562.37 0.2688 0.0984

Earth 15812-10-15 18:43 G 7496562.16 7496562.28 7496562.41 0.2683 0.0950 *

Mars 15813-06-07 14:52 G 7496797.00 7496797.12 7496797.25 0.1952 0.0029

Jupiter 15818-12-17 19:12 G 7498816.15 7498816.30 7498816.44 0.0538 0.0132

Mars 15820-01-11 22:33 G 7499206.32 7499206.44 7499206.56 0.1585 0.0967

Mars 15822-10-28 19:55 G 7500227.23 7500227.33 7500227.43 0.1951 0.1134

Moon 15823-04-20 06:14 G 7500400.64 7500400.76 7500400.88 0.2653 0.0279

Earth 15823-04-20 06:57 G 7500400.67 7500400.79 7500400.91 0.2649 0.0399 *

Jupiter 15824-08-03 09:36 G 7500871.76 7500871.90 7500872.05 0.0490 0.0179

Jupiter 15824-10-31 23:45 G 7500961.40 7500961.49 7500961.58 0.0488 0.0397

Moon 15825-10-18 18:00 G 7501313.13 7501313.25 7501313.37 0.2689 0.1053

Earth 15825-10-18 18:14 G 7501313.13 7501313.26 7501313.38 0.2682 0.1097 *

Saturn 15826-10-02 16:04 G 7501662.08 7501662.17 7501662.28 0.0281 0.0213

Saturn 15826-12-30 07:40 G 7501750.68 7501750.82 7501750.97 0.0281 0.0104

Saturn 15827-03-28 23:45 G 7501839.33 7501839.49 7501839.64 0.0281 0.0012

Saturn 15827-06-25 15:50 G 7501928.02 7501928.16 7501928.30 0.0281 0.0123

Saturn 15827-09-22 08:24 G 7502016.77 7502016.85 7502016.94 0.0282 0.0240

Mars 15829-06-03 04:48 G 7502636.55 7502636.70 7502636.85 0.1585 0.0285

Jupiter 15830-10-05 19:40 G 7503126.21 7503126.32 7503126.44 0.0538 0.0320

Jupiter 15831-01-03 14:09 G 7503216.00 7503216.09 7503216.18 0.0540 0.0415

Venus 15831-06-28 17:16 G 7503392.14 7503392.22 7503392.29 0.3688 0.2835

Uranus 15836-02-26 03:50 G 7505095.61 7505095.66 7505095.72 0.0146 0.0136

Earth 15836-04-22 03:36 G 7505151.57 7505151.65 7505151.72 0.2650 0.2070

Moon 15836-04-22 03:36 G 7505151.58 7505151.65 7505151.73 0.2657 0.2090 *

Jupiter 15836-05-22 12:14 G 7505181.90 7505182.01 7505182.13 0.0491 0.0315

Uranus 15836-05-24 09:50 G 7505183.80 7505183.91 7505184.01 0.0146 0.0111

Jupiter 15836-08-20 01:55 G 7505271.45 7505271.58 7505271.71 0.0489 0.0255

Uranus 15836-08-20 15:36 G 7505272.02 7505272.15 7505272.29 0.0145 0.0086

Uranus 15836-11-16 21:36 G 7505360.26 7505360.40 7505360.55 0.0145 0.0061

Venus 15837-01-11 12:14 G 7505415.90 7505416.01 7505416.11 0.3689 0.1370

Uranus 15837-02-13 03:36 G 7505448.50 7505448.65 7505448.82 0.0145 0.0036

Uranus 15837-05-12 09:50 G 7505536.75 7505536.91 7505537.08 0.0145 0.0009

Uranus 15837-08-08 16:04 G 7505625.00 7505625.17 7505625.33 0.0145 0.0017

Uranus 15837-11-04 22:19 G 7505713.27 7505713.43 7505713.58 0.0145 0.0043

Uranus 15838-02-01 04:19 G 7505801.54 7505801.68 7505801.83 0.0145 0.0069

Uranus 15838-04-30 10:33 G 7505889.82 7505889.94 7505890.07 0.0145 0.0096

Venus 15838-07-25 13:55 G 7505976.00 7505976.08 7505976.15 0.3683 0.3025

Uranus 15838-07-27 16:48 G 7505978.13 7505978.20 7505978.30 0.0145 0.0122

Mars 15838-10-24 11:16 G 7506066.83 7506066.97 7506067.11 0.1586 0.0384

Saturn 15841-02-10 23:31 G 7506907.48 7506907.48 7506907.48 0.0278 0.0278

Saturn 15841-05-10 15:07 G 7506996.01 7506996.13 7506996.26 0.0277 0.0167

Saturn 15841-08-07 06:28 G 7507084.62 7507084.77 7507084.92 0.0277 0.0058

Saturn 15841-11-03 21:36 G 7507173.25 7507173.40 7507173.55 0.0277 0.0049

Saturn 15842-01-31 12:00 G 7507261.88 7507262.00 7507262.13 0.0277 0.0153

Saturn 15842-04-30 02:24 G 7507350.55 7507350.60 7507350.66 0.0277 0.0254

Jupiter 15842-07-24 20:52 G 7507436.32 7507436.37 7507436.43 0.0537 0.0500

Venus 15842-07-28 06:57 G 7507439.67 7507439.79 7507439.90 0.3689 0.0099

Jupiter 15842-10-22 15:50 G 7507526.03 7507526.16 7507526.29 0.0540 0.0244

Mars 15843-07-17 09:50 G 7507793.81 7507793.91 7507794.01 0.1952 0.1164

Venus 15844-02-08 12:43 G 7507999.90 7508000.03 7508000.15 0.3682 0.1157

Moon 15845-10-14 00:14 G 7508613.48 7508613.51 7508613.54 0.2684 0.2582

Earth 15845-10-14 01:12 G 7508613.51 7508613.55 7508613.59 0.2684 0.2523 *

Venus 15848-02-11 01:26 G 7509463.45 7509463.56 7509463.66 0.3690 0.1444

Jupiter 15848-03-10 14:38 G 7509492.06 7509492.11 7509492.16 0.0491 0.0454

Mars 15848-03-15 17:45 G 7509497.13 7509497.24 7509497.35 0.1586 0.1046

Jupiter 15848-06-08 03:50 G 7509581.51 7509581.66 7509581.81 0.0489 0.0110

Venus 15849-08-24 11:45 G 7510023.87 7510023.99 7510024.12 0.3681 0.0825

Mars 15852-12-06 15:07 G 7511224.00 7511224.13 7511224.25 0.1951 0.0090

Venus 15853-08-26 19:40 G 7511487.24 7511487.32 7511487.39 0.3690 0.2766

Jupiter 15854-08-10 17:16 G 7511836.08 7511836.22 7511836.37 0.0539 0.0071

Venus 15855-03-10 11:45 G 7512047.91 7512047.99 7512048.07 0.3681 0.2897

Saturn 15856-02-19 15:36 G 7512394.10 7512394.15 7512394.22 0.0281 0.0255

Moon 15856-04-17 14:24 G 7512451.99 7512452.10 7512452.21 0.2650 0.1161

Earth 15856-04-17 15:21 G 7512452.02 7512452.14 7512452.26 0.2649 0.0952 *

Saturn 15856-05-18 07:12 G 7512482.67 7512482.80 7512482.93 0.0281 0.0147

Saturn 15856-08-14 22:48 G 7512571.30 7512571.45 7512571.61 0.0281 0.0037

Saturn 15856-11-11 14:52 G 7512659.97 7512660.12 7512660.27 0.0281 0.0077

Saturn 15857-02-08 07:26 G 7512748.70 7512748.81 7512748.92 0.0282 0.0194

Moon 15858-10-16 23:45 G 7513364.36 7513364.49 7513364.61 0.2689 0.0705

Earth 15858-10-17 00:14 G 7513364.39 7513364.51 7513364.64 0.2683 0.0545 *

Mars 15859-07-12 23:02 G 7513633.35 7513633.46 7513633.57 0.1585 0.1065

Jupiter 15860-03-27 06:00 G 7513891.60 7513891.75 7513891.91 0.0490 0.0033

Mars 15862-04-28 19:55 G 7514654.22 7514654.33 7514654.44 0.1951 0.1037

Jupiter 15866-05-29 18:00 G 7516146.10 7516146.25 7516146.39 0.0538 0.0121

Mars 15868-12-02 05:02 G 7517063.57 7517063.71 7517063.86 0.1585 0.0383

Moon 15869-04-20 11:45 G 7517202.87 7517202.99 7517203.11 0.2654 0.0745

Earth 15869-04-20 12:14 G 7517202.89 7517203.01 7517203.13 0.2649 0.0758 *

Saturn 15870-09-27 16:33 G 7517728.09 7517728.19 7517728.31 0.0278 0.0198

Neptune 15870-09-28 02:09 G 7517728.57 7517728.59 7517728.62 0.0089 0.0088

Neptune 15870-12-25 04:19 G 7517816.62 7517816.68 7517816.76 0.0089 0.0079

Saturn 15870-12-25 08:09 G 7517816.70 7517816.84 7517816.99 0.0278 0.0087 *

Neptune 15871-03-23 06:14 G 7517904.68 7517904.76 7517904.87 0.0089 0.0072

Saturn 15871-03-23 23:16 G 7517905.32 7517905.47 7517905.62 0.0278 0.0021

Neptune 15871-06-19 08:24 G 7517992.76 7517992.85 7517992.98 0.0089 0.0064

Saturn 15871-06-20 13:55 G 7517993.95 7517994.08 7517994.22 0.0278 0.0126

Neptune 15871-09-15 10:33 G 7518080.83 7518080.94 7518081.08 0.0089 0.0056

Saturn 15871-09-17 04:33 G 7518082.60 7518082.69 7518082.77 0.0278 0.0228

Moon 15871-10-19 23:45 G 7518115.38 7518115.49 7518115.59 0.2689 0.1565

Earth 15871-10-19 23:45 G 7518115.38 7518115.49 7518115.60 0.2682 0.1512 *

Neptune 15871-12-12 13:12 G 7518168.91 7518169.05 7518169.18 0.0089 0.0047

Jupiter 15872-01-14 07:55 G 7518201.69 7518201.83 7518201.98 0.0491 0.0177

Neptune 15872-03-09 15:07 G 7518256.99 7518257.13 7518257.28 0.0089 0.0039

Jupiter 15872-04-12 22:04 G 7518291.33 7518291.42 7518291.51 0.0489 0.0400

Neptune 15872-06-05 17:16 G 7518345.08 7518345.22 7518345.37 0.0089 0.0031

Neptune 15872-09-01 19:26 G 7518433.16 7518433.31 7518433.46 0.0089 0.0023

Neptune 15872-11-28 21:36 G 7518521.25 7518521.40 7518521.55 0.0089 0.0015

Neptune 15873-02-24 23:31 G 7518609.33 7518609.48 7518609.64 0.0089 0.0007

Neptune 15873-05-24 01:40 G 7518697.42 7518697.57 7518697.73 0.0089 0.0002

Neptune 15873-08-20 03:50 G 7518785.50 7518785.66 7518785.81 0.0089 0.0009

Neptune 15873-11-16 05:45 G 7518873.59 7518873.74 7518873.90 0.0089 0.0017

Neptune 15874-02-12 07:40 G 7518961.68 7518961.82 7518961.98 0.0089 0.0026

Neptune 15874-05-11 09:50 G 7519049.77 7519049.91 7519050.06 0.0089 0.0033

Neptune 15874-08-07 12:00 G 7519137.86 7519138.00 7519138.14 0.0089 0.0041

Neptune 15874-11-03 13:55 G 7519225.96 7519226.08 7519226.21 0.0089 0.0048

Neptune 15875-01-30 15:50 G 7519314.05 7519314.16 7519314.29 0.0089 0.0056

Neptune 15875-04-28 17:45 G 7519402.15 7519402.24 7519402.36 0.0089 0.0064

Neptune 15875-07-25 19:55 G 7519490.25 7519490.33 7519490.43 0.0089 0.0072

Neptune 15875-10-21 21:50 G 7519578.35 7519578.41 7519578.49 0.0089 0.0079

Neptune 15876-01-18 00:00 G 7519666.47 7519666.50 7519666.53 0.0089 0.0087

Jupiter 15878-03-17 18:28 G 7520456.15 7520456.27 7520456.39 0.0537 0.0311

Mars 15878-04-24 11:31 G 7520493.84 7520493.98 7520494.13 0.1586 0.0292

Uranus 15878-06-15 00:14 G 7520545.50 7520545.51 7520545.56 0.0133 0.0130

Jupiter 15878-06-15 12:43 G 7520545.94 7520546.03 7520546.12 0.0540 0.0421

Uranus 15878-09-11 04:33 G 7520633.62 7520633.69 7520633.78 0.0133 0.0111

Uranus 15878-12-08 08:38 G 7520721.76 7520721.86 7520721.98 0.0133 0.0093

Uranus 15879-03-06 12:43 G 7520809.92 7520810.03 7520810.16 0.0133 0.0075

Uranus 15879-06-02 17:02 G 7520898.07 7520898.21 7520898.35 0.0133 0.0056

Uranus 15879-08-29 21:07 G 7520986.23 7520986.38 7520986.52 0.0133 0.0038

Uranus 15879-11-26 00:57 G 7521074.40 7521074.54 7521074.69 0.0133 0.0021

Uranus 15880-02-22 05:02 G 7521162.56 7521162.71 7521162.86 0.0133 0.0002

Pluto 15880-04-29 13:40 G 7521229.98 7521230.07 7521230.18 0.0074 0.0062

Uranus 15880-05-20 08:52 G 7521250.73 7521250.87 7521251.02 0.0133 0.0016

Pluto 15880-07-26 16:04 G 7521318.03 7521318.17 7521318.33 0.0073 0.0047

Uranus 15880-08-16 12:57 G 7521338.89 7521339.04 7521339.18 0.0133 0.0033

Pluto 15880-10-22 18:28 G 7521406.10 7521406.27 7521406.45 0.0073 0.0032

Uranus 15880-11-12 16:48 G 7521427.06 7521427.20 7521427.34 0.0133 0.0051

Pluto 15881-01-18 21:07 G 7521494.19 7521494.38 7521494.56 0.0073 0.0017

Uranus 15881-02-08 20:24 G 7521515.23 7521515.35 7521515.49 0.0133 0.0069

Pluto 15881-04-16 23:16 G 7521582.28 7521582.47 7521582.67 0.0073 0.0002

Uranus 15881-05-08 00:28 G 7521603.41 7521603.52 7521603.63 0.0133 0.0085

Pluto 15881-07-14 01:26 G 7521670.38 7521670.56 7521670.76 0.0073 0.0013

Uranus 15881-08-04 04:19 G 7521691.59 7521691.68 7521691.77 0.0133 0.0103

Pluto 15881-10-10 03:36 G 7521758.49 7521758.65 7521758.85 0.0073 0.0028

Uranus 15881-10-31 08:09 G 7521779.78 7521779.84 7521779.90 0.0133 0.0120

Pluto 15882-01-06 06:00 G 7521846.61 7521846.75 7521846.92 0.0073 0.0042

Pluto 15882-04-04 08:24 G 7521934.74 7521934.85 7521934.98 0.0073 0.0056

Moon 15882-04-23 08:52 G 7521953.82 7521953.87 7521953.92 0.2657 0.2421

Earth 15882-04-23 08:52 G 7521953.82 7521953.87 7521953.91 0.2650 0.2418 *

Pluto 15882-07-01 10:19 G 7522022.91 7522022.93 7522023.00 0.0072 0.0071

Mars 15883-01-15 10:04 G 7522220.83 7522220.92 7522221.01 0.1952 0.1276

Jupiter 15883-11-02 10:19 G 7522511.82 7522511.93 7522512.05 0.0491 0.0315

Jupiter 15884-01-31 00:00 G 7522601.37 7522601.50 7522601.63 0.0489 0.0257

Saturn 15885-07-08 18:43 G 7523126.26 7523126.28 7523126.31 0.0280 0.0274

Saturn 15885-10-05 10:04 G 7523214.80 7523214.92 7523215.04 0.0281 0.0167

Saturn 15886-01-02 01:40 G 7523303.42 7523303.57 7523303.72 0.0281 0.0058

Saturn 15886-03-31 17:45 G 7523392.08 7523392.24 7523392.39 0.0281 0.0055

Saturn 15886-06-28 10:04 G 7523480.80 7523480.92 7523481.05 0.0281 0.0171

Mars 15887-09-14 18:14 G 7523924.14 7523924.26 7523924.38 0.1586 0.0948

Venus 15888-02-02 15:36 G 7524065.06 7524065.15 7524065.23 0.3688 0.2383

Moon 15889-04-15 22:48 G 7524503.41 7524503.45 7524503.48 0.2646 0.2514

Earth 15889-04-15 23:31 G 7524503.43 7524503.48 7524503.54 0.2648 0.2343 *

Jupiter 15890-01-03 18:43 G 7524766.23 7524766.28 7524766.33 0.0537 0.0505

Jupiter 15890-04-03 13:40 G 7524855.94 7524856.07 7524856.20 0.0540 0.0238

Moon 15891-10-15 05:45 G 7525415.68 7525415.74 7525415.80 0.2685 0.2326

Earth	15891-10-15 06:43 G	7525415.71	7525415.78	7525415.86	0.2683	0.2123	*
Mars	15892-06-06 15:07 G	7525651.01	7525651.13	7525651.26	0.1951	0.0201	
Venus	15893-08-18 10:33 G	7526088.83	7526088.94	7526089.05	0.3689	0.0918	
Venus	15895-03-01 13:12 G	7526648.96	7526649.05	7526649.14	0.3682	0.2462	
Jupiter	15895-08-21 13:12 G	7526821.99	7526822.05	7526822.11	0.0492	0.0449	
Jupiter	15895-11-19 02:24 G	7526911.45	7526911.60	7526911.75	0.0489	0.0117	
Mars	15899-01-10 23:31 G	7528060.38	7528060.48	7528060.58	0.1585	0.1170	
Venus	15899-03-04 05:02 G	7528112.60	7528112.71	7528112.83	0.3689	0.0506	
Saturn	15900-02-14 17:31 G	7528460.15	7528460.23	7528460.32	0.0278	0.0231	
Saturn	15900-05-14 09:07 G	7528548.74	7528548.88	7528549.02	0.0278	0.0120	
Saturn	15900-08-11 00:28 G	7528637.36	7528637.52	7528637.67	0.0277	0.0014	
Venus	15900-09-15 12:00 G	7528672.88	7528673.00	7528673.13	0.3682	0.0577	
Saturn	15900-11-07 15:07 G	7528725.99	7528726.13	7528726.28	0.0277	0.0094	
Saturn	15901-02-04 05:45 G	7528814.63	7528814.74	7528814.84	0.0277	0.0196	
Mars	15901-10-28 20:09 G	7529081.23	7529081.34	7529081.45	0.1951	0.0913	
Jupiter	15902-01-21 15:07 G	7529165.99	7529166.13	7529166.28	0.0539	0.0063	
Moon	15902-04-19 19:40 G	7529254.20	7529254.32	7529254.44	0.2651	0.0644	
Earth	15902-04-19 20:38 G	7529254.24	7529254.36	7529254.48	0.2649	0.0594	*
Venus	15904-09-17 23:31 G	7530136.38	7530136.48	7530136.58	0.3690	0.1855	
Moon	15904-10-18 05:16 G	7530166.59	7530166.72	7530166.85	0.2689	0.0136	
Earth	15904-10-18 05:45 G	7530166.61	7530166.74	7530166.88	0.2683	0.0156	*
Venus	15906-04-01 11:31 G	7530696.86	7530696.98	7530697.10	0.3681	0.1437	
Jupiter	15907-09-08 04:19 G	7531221.53	7531221.68	7531221.84	0.0490	0.0030	
Mars	15908-06-03 05:31 G	7531490.59	7531490.73	7531490.87	0.1585	0.0480	
Venus	15910-04-03 17:45 G	7532160.18	7532160.24	7532160.29	0.3690	0.3167	
Venus	15911-10-16 11:31 G	7532720.95	7532720.98	7532721.01	0.3681	0.3555	
Jupiter	15913-11-09 16:33 G	7533476.04	7533476.19	7533476.33	0.0538	0.0114	
Saturn	15915-02-23 09:36 G	7533946.81	7533946.90	7533947.01	0.0281	0.0209	
Moon	15915-04-22 17:02 G	7534005.10	7534005.21	7534005.33	0.2656	0.1011	
Earth	15915-04-22 17:31 G	7534005.12	7534005.23	7534005.34	0.2649	0.1114	*

Saturn 15915-05-23 01:12 G 7534035.41 7534035.55 7534035.70 0.0281 0.0100

Saturn 15915-08-19 17:02 G 7534124.06 7534124.21 7534124.37 0.0281 0.0012

Saturn 15915-11-16 09:21 G 7534212.75 7534212.89 7534213.03 0.0281 0.0126

Saturn 15916-02-13 01:55 G 7534301.50 7534301.58 7534301.66 0.0282 0.0244

Earth 15917-10-21 05:16 G 7534917.63 7534917.72 7534917.81 0.2682 0.1932

Moon 15917-10-21 05:31 G 7534917.64 7534917.73 7534917.82 0.2688 0.1914 *

Mars 15917-10-24 11:45 G 7534920.85 7534920.99 7534921.14 0.1585 0.0203

Jupiter 15919-06-27 06:43 G 7535531.64 7535531.78 7535531.92 0.0490 0.0168

Jupiter 15919-09-24 20:38 G 7535621.28 7535621.36 7535621.45 0.0488 0.0407

Uranus 15920-03-18 11:16 G 7535796.90 7535796.97 7535797.04 0.0145 0.0129

Uranus 15920-06-14 17:16 G 7535885.11 7535885.22 7535885.33 0.0145 0.0104

Uranus 15920-09-10 23:02 G 7535973.33 7535973.46 7535973.60 0.0145 0.0079

Uranus 15920-12-08 05:02 G 7536061.56 7536061.71 7536061.87 0.0145 0.0054

Uranus 15921-03-06 11:02 G 7536149.81 7536149.96 7536150.13 0.0145 0.0029

Uranus 15921-06-02 17:16 G 7536238.06 7536238.22 7536238.39 0.0145 0.0003

Uranus 15921-08-29 23:31 G 7536326.31 7536326.48 7536326.64 0.0145 0.0024

Uranus 15921-11-26 05:31 G 7536414.58 7536414.73 7536414.89 0.0145 0.0050

Uranus 15922-02-22 11:45 G 7536502.86 7536502.99 7536503.14 0.0145 0.0076

Uranus 15922-05-21 18:14 G 7536591.14 7536591.26 7536591.38 0.0145 0.0102

Mars 15922-07-17 10:04 G 7536647.83 7536647.92 7536648.01 0.1952 0.1375

Uranus 15922-08-18 00:28 G 7536679.45 7536679.52 7536679.60 0.0145 0.0129

Jupiter 15925-08-28 17:02 G 7537786.09 7537786.21 7537786.34 0.0537 0.0303

Jupiter 15925-11-26 11:16 G 7537875.89 7537875.97 7537876.06 0.0540 0.0430

Mars 15927-03-16 18:28 G 7538351.15 7538351.27 7538351.40 0.1586 0.0856

Saturn 15929-07-04 18:28 G 7539192.23 7539192.27 7539192.32 0.0279 0.0265

Saturn 15929-10-01 10:19 G 7539280.80 7539280.93 7539281.06 0.0278 0.0153

Saturn 15929-12-29 01:40 G 7539369.42 7539369.57 7539369.72 0.0278 0.0043

Saturn 15930-03-27 16:48 G 7539458.05 7539458.20 7539458.35 0.0278 0.0064

Saturn 15930-06-24 07:26 G 7539546.69 7539546.81 7539546.93 0.0278 0.0168

Saturn 15930-09-20 21:36 G 7539635.37 7539635.40 7539635.44 0.0278 0.0270

Jupiter	15931-04-15 08:38 G	7539841.74	7539841.86	7539841.98	0.0491	0.0313
Jupiter	15931-07-13 22:19 G	7539931.30	7539931.43	7539931.56	0.0489	0.0258
Mars	15931-12-07 15:21 G	7540078.02	7540078.14	7540078.27	0.1952	0.0306
Moon	15935-04-18 03:50 G	7541305.59	7541305.66	7541305.74	0.2647	0.2075
Earth	15935-04-18 04:48 G	7541305.62	7541305.70	7541305.79	0.2648	0.1977 *
Mars	15936-08-06 01:12 G	7541781.51	7541781.55	7541781.60	0.1587	0.1503
Jupiter	15937-06-16 17:31 G	7542096.17	7542096.23	7542096.28	0.0536	0.0495
Jupiter	15937-09-14 12:14 G	7542185.88	7542186.01	7542186.14	0.0539	0.0245
Moon	15937-10-16 11:31 G	7542217.88	7542217.98	7542218.07	0.2687	0.1794
Earth	15937-10-16 12:14 G	7542217.92	7542218.01	7542218.11	0.2683	0.1720 *
Mars	15938-07-12 23:45 G	7542487.40	7542487.49	7542487.58	0.1585	0.1269
Venus	15939-02-24 18:43 G	7542714.24	7542714.28	7542714.32	0.3688	0.3427
Mars	15941-04-28 20:24 G	7543508.24	7543508.35	7543508.47	0.1951	0.0800
Jupiter	15943-02-01 11:02 G	7544151.91	7544151.96	7544152.02	0.0492	0.0451
Jupiter	15943-05-02 00:14 G	7544241.36	7544241.51	7544241.66	0.0490	0.0116
Saturn	15944-07-12 12:57 G	7544678.96	7544679.04	7544679.13	0.0280	0.0227
Venus	15944-09-09 13:55 G	7544737.98	7544738.08	7544738.18	0.3688	0.1925
Saturn	15944-10-09 04:19 G	7544767.55	7544767.68	7544767.83	0.0281	0.0119
Saturn	15945-01-05 20:09 G	7544856.19	7544856.34	7544856.50	0.0281	0.0010
Saturn	15945-04-04 12:14 G	7544944.87	7544945.01	7544945.16	0.0281	0.0107
Saturn	15945-07-02 04:48 G	7545033.61	7545033.70	7545033.80	0.0281	0.0223
Mars	15947-12-03 06:00 G	7545917.61	7545917.75	7545917.89	0.1585	0.0580
Moon	15948-04-20 01:12 G	7546056.42	7546056.55	7546056.67	0.2651	0.0417
Earth	15948-04-20 01:55 G	7546056.46	7546056.58	7546056.70	0.2649	0.0227 *
Jupiter	15949-07-03 12:57 G	7546495.89	7546496.04	7546496.18	0.0539	0.0056
Venus	15950-03-26 08:52 G	7546761.75	7546761.87	7546761.98	0.3689	0.0486
Mars	15950-09-19 00:57 G	7546938.54	7546938.54	7546938.55	0.1950	0.1943
Moon	15950-10-19 11:02 G	7546968.83	7546968.96	7546969.09	0.2689	0.0158
Earth	15950-10-19 11:31 G	7546968.84	7546968.98	7546969.11	0.2683	0.0292 *
Venus	15951-10-07 12:28 G	7547321.91	7547322.02	7547322.13	0.3682	0.1895

Neptune 15952-06-24 03:50 G 7547582.61 7547582.66 7547582.72 0.0088 0.0081

Neptune 15952-09-20 05:45 G 7547670.67 7547670.74 7547670.84 0.0088 0.0074

Neptune 15952-12-17 07:55 G 7547758.74 7547758.83 7547758.94 0.0088 0.0066

Neptune 15953-03-15 10:19 G 7547846.81 7547846.93 7547847.05 0.0088 0.0058

Neptune 15953-06-11 12:00 G 7547934.89 7547935.00 7547935.14 0.0088 0.0051

Neptune 15953-09-07 14:24 G 7548022.97 7548023.10 7548023.24 0.0088 0.0043

Neptune 15953-12-04 16:33 G 7548111.05 7548111.19 7548111.34 0.0088 0.0035

Neptune 15954-03-02 18:43 G 7548199.13 7548199.28 7548199.43 0.0088 0.0028

Neptune 15954-05-29 20:52 G 7548287.22 7548287.37 7548287.53 0.0088 0.0020

Neptune 15954-08-25 23:02 G 7548375.30 7548375.46 7548375.62 0.0088 0.0012

Neptune 15954-11-22 01:12 G 7548463.39 7548463.55 7548463.71 0.0088 0.0005

Jupiter 15955-02-18 02:52 G 7548551.46 7548551.62 7548551.77 0.0490 0.0027

Neptune 15955-02-18 03:36 G 7548551.49 7548551.65 7548551.81 0.0088 0.0004 *

Neptune 15955-05-17 05:31 G 7548639.58 7548639.73 7548639.90 0.0088 0.0012

Neptune 15955-08-13 07:55 G 7548727.67 7548727.83 7548727.99 0.0088 0.0019

Venus 15955-10-10 03:21 G 7548785.53 7548785.64 7548785.75 0.3689 0.0924

Neptune 15955-11-09 10:04 G 7548815.77 7548815.92 7548816.07 0.0088 0.0027

Neptune 15956-02-05 12:14 G 7548903.87 7548904.01 7548904.16 0.0088 0.0035

Neptune 15956-05-03 14:24 G 7548991.97 7548992.10 7548992.25 0.0088 0.0043

Neptune 15956-07-30 16:48 G 7549080.07 7549080.20 7549080.33 0.0088 0.0051

Neptune 15956-10-26 18:57 G 7549168.18 7549168.29 7549168.41 0.0088 0.0059

Neptune 15957-01-22 21:21 G 7549256.29 7549256.39 7549256.49 0.0088 0.0067

Neptune 15957-04-20 23:31 G 7549344.40 7549344.48 7549344.57 0.0088 0.0075

Venus 15957-04-22 11:31 G 7549345.85 7549345.98 7549346.11 0.3681 0.0140

Mars 15957-04-24 12:14 G 7549347.87 7549348.01 7549348.16 0.1585 0.0106

Neptune 15957-07-18 01:26 G 7549432.53 7549432.56 7549432.63 0.0088 0.0084

Saturn 15959-02-18 11:45 G 7550012.88 7550012.99 7550013.11 0.0278 0.0182

Saturn 15959-05-18 03:21 G 7550101.49 7550101.64 7550101.78 0.0278 0.0073

Saturn 15959-08-14 18:14 G 7550190.11 7550190.26 7550190.42 0.0277 0.0036

Saturn 15959-11-11 09:07 G 7550278.75 7550278.88 7550279.01 0.0277 0.0139

Saturn 15960-02-07 23:16 G 7550367.41 7550367.47 7550367.55 0.0277 0.0241

Jupiter 15961-04-21 14:09 G 7550805.95 7550806.09 7550806.23 0.0538 0.0124

Moon 15961-04-22 22:19 G 7550807.33 7550807.43 7550807.53 0.2656 0.1511

Earth 15961-04-22 22:48 G 7550807.34 7550807.45 7550807.55 0.2649 0.1468 *

Venus 15961-04-24 21:50 G 7550809.32 7550809.41 7550809.49 0.3690 0.2278

Mars 15962-01-15 10:19 G 7551074.85 7551074.93 7551075.01 0.1952 0.1489

Uranus 15962-07-06 08:24 G 7551246.80 7551246.85 7551246.92 0.0133 0.0122

Uranus 15962-10-02 12:43 G 7551334.94 7551335.03 7551335.12 0.0133 0.0103

Venus 15962-11-06 11:16 G 7551369.86 7551369.97 7551370.07 0.3681 0.2077

Uranus 15962-12-29 16:48 G 7551423.09 7551423.20 7551423.32 0.0133 0.0085

Uranus 15963-03-27 20:52 G 7551511.24 7551511.37 7551511.50 0.0133 0.0067

Uranus 15963-06-24 00:43 G 7551599.40 7551599.53 7551599.68 0.0133 0.0049

Uranus 15963-09-20 04:48 G 7551687.56 7551687.70 7551687.85 0.0133 0.0031

Earth 15963-10-22 10:48 G 7551719.89 7551719.95 7551720.01 0.2682 0.2348

Moon 15963-10-22 11:16 G 7551719.93 7551719.97 7551720.01 0.2688 0.2505 *

Uranus 15963-12-17 08:52 G 7551775.73 7551775.87 7551776.02 0.0133 0.0013

Uranus 15964-03-14 12:57 G 7551863.89 7551864.04 7551864.19 0.0133 0.0005

Uranus 15964-06-10 16:48 G 7551952.06 7551952.20 7551952.35 0.0133 0.0023

Uranus 15964-09-06 20:38 G 7552040.23 7552040.36 7552040.51 0.0133 0.0041

Uranus 15964-12-04 00:28 G 7552128.40 7552128.52 7552128.66 0.0133 0.0059

Uranus 15965-03-02 04:33 G 7552216.57 7552216.69 7552216.81 0.0133 0.0076

Uranus 15965-05-29 08:09 G 7552304.74 7552304.84 7552304.95 0.0133 0.0093

Uranus 15965-08-25 12:00 G 7552392.93 7552393.00 7552393.09 0.0133 0.0110

Uranus 15965-11-21 15:36 G 7552481.12 7552481.15 7552481.20 0.0133 0.0128

Mars 15966-09-14 18:57 G 7552778.16 7552778.29 7552778.42 0.1586 0.0762

Venus 15966-11-08 15:50 G 7552833.14 7552833.16 7552833.18 0.3690 0.3571

Jupiter 15966-12-07 05:02 G 7552861.56 7552861.71 7552861.85 0.0490 0.0167

Jupiter 15967-03-06 18:43 G 7552951.20 7552951.28 7552951.37 0.0488 0.0409

Mars 15971-06-07 15:36 G 7554505.03 7554505.15 7554505.27 0.1952 0.0416

Jupiter 15973-02-07 15:21 G 7555116.02 7555116.14 7555116.27 0.0538 0.0302

Jupiter 15973-05-08 09:50 G 7555205.83 7555205.91 7555206.00 0.0540 0.0434

Saturn 15973-11-29 12:57 G 7555411.00 7555411.04 7555411.09 0.0281 0.0266

Saturn 15974-02-26 04:04 G 7555499.55 7555499.67 7555499.80 0.0281 0.0160

Saturn 15974-05-25 19:40 G 7555588.17 7555588.32 7555588.48 0.0281 0.0050

Saturn 15974-08-22 11:45 G 7555676.84 7555676.99 7555677.14 0.0281 0.0063

Saturn 15974-11-19 04:04 G 7555765.55 7555765.67 7555765.79 0.0281 0.0179

Mars 15976-02-05 01:26 G 7556208.50 7556208.56 7556208.63 0.1587 0.1415

Mars 15978-01-11 00:00 G 7556914.43 7556914.50 7556914.58 0.1585 0.1366

Jupiter 15978-09-25 07:12 G 7557171.69 7557171.80 7557171.92 0.0491 0.0306

Jupiter 15978-12-23 20:52 G 7557261.24 7557261.37 7557261.50 0.0489 0.0264

Mars 15980-10-27 20:24 G 7557935.24 7557935.35 7557935.47 0.1951 0.0703

Moon 15981-04-18 09:07 G 7558107.79 7558107.88 7558107.97 0.2648 0.1764

Earth 15981-04-18 10:04 G 7558107.82 7558107.92 7558108.02 0.2648 0.1608 *

Moon 15983-10-17 17:02 G 7559020.10 7559020.21 7559020.32 0.2688 0.1468

Earth 15983-10-17 17:45 G 7559020.13 7559020.24 7559020.36 0.2683 0.1316 *

Jupiter 15984-11-26 16:04 G 7559426.11 7559426.17 7559426.23 0.0536 0.0489

Jupiter 15985-02-24 10:48 G 7559515.83 7559515.95 7559516.08 0.0539 0.0253

Mars 15987-06-03 06:14 G 7560344.63 7560344.76 7560344.90 0.1585 0.0675

Saturn 15988-07-07 12:57 G 7560744.94 7560745.04 7560745.13 0.0279 0.0216

Saturn 15988-10-04 04:19 G 7560833.54 7560833.68 7560833.83 0.0278 0.0106

Saturn 15988-12-31 19:40 G 7560922.17 7560922.32 7560922.47 0.0278 0.0004

Saturn 15989-03-30 10:33 G 7561010.80 7561010.94 7561011.08 0.0278 0.0109

Saturn 15989-06-27 00:57 G 7561099.45 7561099.54 7561099.64 0.0278 0.0213

Mars 15990-03-20 01:26 G 7561365.51 7561365.56 7561365.60 0.1950 0.1824

Jupiter 15990-07-14 09:07 G 7561481.83 7561481.88 7561481.94 0.0492 0.0452

Jupiter 15990-10-11 22:19 G 7561571.29 7561571.43 7561571.59 0.0490 0.0116

Moon 15994-04-21 06:28 G 7562858.65 7562858.77 7562858.89 0.2653 0.0086

Earth 15994-04-21 07:12 G 7562858.67 7562858.80 7562858.92 0.2649 0.0131 *

Venus 15995-10-01 17:16 G 7563387.15 7563387.22 7563387.29 0.3688 0.2957

Moon 15996-10-19 16:48 G 7563771.07 7563771.20 7563771.32 0.2689 0.0733

Earth	**15996-10-19 17:02**	**G**	**7563771.08**	**7563771.21**	**7563771.34**	**0.2683**	**0.0699**	*
Mars	**15996-10-23 12:43**	**G**	**7563774.88**	**7563775.03**	**7563775.18**	**0.1585**	**0.0018**	
Jupiter	**15996-12-13 11:31**	**G**	**7563825.84**	**7563825.98**	**7563826.13**	**0.0538**	**0.0066**	

17TH MILLENNIUM CE

This is a list of transits of Mercury in the 17th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	**16001-04-16 12:14**	**G**	**7565410.91**	**7565411.01**	**7565411.12**	**0.3689**	**0.1470**	
Mars	**16001-07-16 10:33**	**G**	**7565501.88**	**7565501.94**	**7565502.01**	**0.1952**	**0.1611**	
Jupiter	**16002-07-31 00:43**	**G**	**7565881.37**	**7565881.53**	**7565881.68**	**0.0490**	**0.0031**	
Venus	**16002-10-28 13:26**	**G**	**7565970.99**	**7565971.06**	**7565971.12**	**0.3682**	**0.3161**	
Saturn	**16003-07-16 07:26**	**G**	**7566231.70**	**7566231.81**	**7566231.93**	**0.0281**	**0.0177**	
Saturn	**16003-10-12 23:02**	**G**	**7566320.31**	**7566320.46**	**7566320.61**	**0.0281**	**0.0068**	
Saturn	**16004-01-09 15:07**	**G**	**7566408.97**	**7566409.13**	**7566409.28**	**0.0281**	**0.0045**	
Uranus	**16004-01-10 13:12**	**G**	**7566410.05**	**7566410.05**	**7566410.08**	**0.0145**	**0.0145**	
Saturn	**16004-04-07 07:12**	**G**	**7566497.68**	**7566497.80**	**7566497.94**	**0.0281**	**0.0160**	
Uranus	**16004-04-07 19:12**	**G**	**7566498.21**	**7566498.30**	**7566498.39**	**0.0145**	**0.0120**	
Uranus	**16004-07-05 00:57**	**G**	**7566586.43**	**7566586.54**	**7566586.67**	**0.0145**	**0.0095**	
Saturn	**16004-07-05 00:00**	**G**	**7566586.48**	**7566586.50**	**7566586.52**	**0.0281**	**0.0278**	*
Uranus	**16004-10-01 07:12**	**G**	**7566674.65**	**7566674.80**	**7566674.94**	**0.0145**	**0.0070**	
Uranus	**16004-12-28 13:12**	**G**	**7566762.89**	**7566763.05**	**7566763.20**	**0.0145**	**0.0045**	
Uranus	**16005-03-26 19:12**	**G**	**7566851.14**	**7566851.30**	**7566851.46**	**0.0145**	**0.0019**	
Uranus	**16005-06-23 01:12**	**G**	**7566939.39**	**7566939.55**	**7566939.72**	**0.0145**	**0.0008**	

Uranus	16005-09-19 07:26 G	7567027.65	7567027.81	7567027.97	0.0145	0.0033
Uranus	16005-12-16 13:26 G	7567115.92	7567116.06	7567116.22	0.0145	0.0059
Uranus	16006-03-14 19:40 G	7567204.20	7567204.32	7567204.46	0.0145	0.0086
Mars	16006-03-15 19:12 G	7567205.17	7567205.30	7567205.44	0.1586	0.0664
Uranus	16006-06-11 02:09 G	7567292.49	7567292.59	7567292.70	0.0145	0.0112
Uranus	16006-09-07 08:24 G	7567380.81	7567380.85	7567380.91	0.0145	0.0138
Venus	16006-10-31 07:12 G	7567434.68	7567434.80	7567434.91	0.3689	0.0120
Moon	16007-04-24 03:50 G	7567609.56	7567609.66	7567609.75	0.2656	0.1729
Earth	16007-04-24 03:50 G	7567609.58	7567609.66	7567609.75	0.2650	0.1821 *
Venus	16008-05-13 12:00 G	7567994.88	7567995.00	7567995.12	0.3682	0.1308
Jupiter	16008-10-01 11:45 G	7568135.85	7568135.99	7568136.14	0.0538	0.0132
Mars	16010-12-06 15:36 G	7568932.03	7568932.15	7568932.28	0.1952	0.0525
Venus	16012-05-16 01:40 G	7569458.46	7569458.57	7569458.67	0.3689	0.1355
Venus	16013-11-27 11:16 G	7570018.84	7570018.97	7570019.10	0.3681	0.0655
Jupiter	16014-05-19 03:07 G	7570191.49	7570191.63	7570191.77	0.0491	0.0165
Jupiter	16014-08-16 17:02 G	7570281.13	7570281.21	7570281.29	0.0488	0.0410
Mars	16015-08-06 01:55 G	7570635.50	7570635.58	7570635.66	0.1587	0.1317
Mars	16017-07-12 00:28 G	7571341.47	7571341.52	7571341.58	0.1585	0.1473
Saturn	16017-11-24 14:38 G	7571477.04	7571477.11	7571477.19	0.0278	0.0243
Venus	16017-11-29 19:55 G	7571482.25	7571482.33	7571482.41	0.3690	0.2688
Saturn	16018-02-21 06:14 G	7571565.63	7571565.76	7571565.90	0.0278	0.0132
Saturn	16018-05-20 21:36 G	7571654.25	7571654.40	7571654.56	0.0278	0.0024
Saturn	16018-08-17 12:28 G	7571742.88	7571743.02	7571743.17	0.0277	0.0083
Saturn	16018-11-14 03:07 G	7571831.52	7571831.63	7571831.74	0.0277	0.0186
Venus	16019-06-13 11:02 G	7572042.87	7572042.96	7572043.05	0.3681	0.2727
Mars	16020-04-27 20:52 G	7572362.25	7572362.37	7572362.49	0.1951	0.0579
Jupiter	16020-07-20 12:43 G	7572445.91	7572446.03	7572446.16	0.0537	0.0314
Jupiter	16020-10-18 07:26 G	7572535.72	7572535.81	7572535.90	0.0540	0.0422
Jupiter	16026-03-07 05:31 G	7574501.61	7574501.73	7574501.84	0.0491	0.0305
Jupiter	16026-06-04 18:57 G	7574591.16	7574591.29	7574591.42	0.0489	0.0264

Mars 16026-12-02 06:43 G 7574771.65 7574771.78 7574771.91 0.1585 0.0778

Moon 16027-04-19 14:24 G 7574910.00 7574910.10 7574910.21 0.2648 0.1365

Earth 16027-04-19 15:36 G 7574910.03 7574910.15 7574910.26 0.2648 0.1239 *

Mars 16029-09-18 01:26 G 7575792.51 7575792.56 7575792.62 0.1950 0.1716

Moon 16029-10-17 22:33 G 7575822.32 7575822.44 7575822.56 0.2688 0.1014

Earth 16029-10-17 23:16 G 7575822.35 7575822.47 7575822.60 0.2683 0.0914 *

Jupiter 16032-05-08 13:55 G 7576756.03 7576756.08 7576756.14 0.0537 0.0494

Jupiter 16032-08-06 08:52 G 7576845.75 7576845.87 7576846.00 0.0540 0.0251

Saturn 16032-12-02 07:40 G 7576963.72 7576963.82 7576963.92 0.0281 0.0215

Saturn 16033-02-28 23:02 G 7577052.32 7577052.46 7577052.60 0.0281 0.0107

Saturn 16033-05-28 14:52 G 7577140.96 7577141.12 7577141.27 0.0281 0.0007

Saturn 16033-08-25 06:57 G 7577229.65 7577229.79 7577229.93 0.0281 0.0118

Saturn 16033-11-21 23:31 G 7577318.39 7577318.48 7577318.56 0.0281 0.0235

Neptune 16035-06-26 00:14 G 7577899.49 7577899.51 7577899.55 0.0089 0.0087

Neptune 16035-09-22 02:24 G 7577987.54 7577987.60 7577987.68 0.0089 0.0079

Neptune 16035-12-19 04:48 G 7578075.61 7578075.70 7578075.80 0.0089 0.0071

Neptune 16036-03-16 06:57 G 7578163.68 7578163.79 7578163.91 0.0089 0.0063

Mars 16036-04-23 12:57 G 7578201.89 7578202.04 7578202.19 0.1585 0.0097

Neptune 16036-06-12 09:07 G 7578251.76 7578251.88 7578252.01 0.0089 0.0055

Neptune 16036-09-08 11:16 G 7578339.84 7578339.97 7578340.11 0.0089 0.0046

Neptune 16036-12-05 13:26 G 7578427.92 7578428.06 7578428.20 0.0089 0.0038

Neptune 16037-03-03 15:21 G 7578516.00 7578516.14 7578516.30 0.0089 0.0031

Neptune 16037-05-30 17:31 G 7578604.09 7578604.23 7578604.39 0.0089 0.0023

Neptune 16037-08-26 19:40 G 7578692.17 7578692.32 7578692.48 0.0089 0.0015

Neptune 16037-11-22 21:50 G 7578780.26 7578780.41 7578780.57 0.0089 0.0007

Jupiter 16037-12-24 07:55 G 7578811.77 7578811.83 7578811.89 0.0492 0.0444

Neptune 16038-02-19 00:00 G 7578868.35 7578868.50 7578868.66 0.0089 0.0002

Jupiter 16038-03-23 21:07 G 7578901.23 7578901.38 7578901.53 0.0489 0.0121

Neptune 16038-05-18 02:09 G 7578956.43 7578956.59 7578956.74 0.0089 0.0010

Neptune 16038-08-14 04:04 G 7579044.52 7579044.67 7579044.83 0.0089 0.0018

Neptune 16038-11-10 06:14 G 7579132.61 7579132.76 7579132.91 0.0089 0.0026

Neptune 16039-02-06 08:09 G 7579220.70 7579220.84 7579220.99 0.0089 0.0034

Neptune 16039-05-05 10:04 G 7579308.80 7579308.92 7579309.07 0.0089 0.0042

Neptune 16039-08-01 12:00 G 7579396.89 7579397.00 7579397.14 0.0089 0.0050

Neptune 16039-10-28 14:24 G 7579484.98 7579485.10 7579485.22 0.0089 0.0057

Neptune 16040-01-24 16:19 G 7579573.08 7579573.18 7579573.29 0.0089 0.0064

Moon 16040-04-21 11:45 G 7579660.87 7579660.99 7579661.12 0.2655 0.0394

Earth 16040-04-21 12:28 G 7579660.90 7579661.02 7579661.14 0.2649 0.0492 *

Neptune 16040-04-21 18:00 G 7579661.18 7579661.25 7579661.36 0.0089 0.0073

Pluto 16040-05-10 07:12 G 7579679.80 7579679.80 7579679.81 0.0071 0.0071

Neptune 16040-07-18 20:24 G 7579749.29 7579749.35 7579749.42 0.0089 0.0080

Pluto 16040-08-06 07:40 G 7579767.77 7579767.82 7579767.90 0.0071 0.0062

Neptune 16040-10-14 22:04 G 7579837.41 7579837.42 7579837.46 0.0089 0.0088

Pluto 16040-11-02 08:38 G 7579855.77 7579855.86 7579855.95 0.0071 0.0052

Mars 16041-01-14 10:33 G 7579928.88 7579928.94 7579929.00 0.1952 0.1700

Pluto 16041-01-29 09:07 G 7579943.78 7579943.88 7579943.99 0.0071 0.0043

Pluto 16041-04-27 09:50 G 7580031.80 7580031.91 7580032.03 0.0071 0.0034

Pluto 16041-07-24 10:33 G 7580119.82 7580119.94 7580120.07 0.0071 0.0025

Pluto 16041-10-20 11:16 G 7580207.84 7580207.97 7580208.10 0.0071 0.0015

Pluto 16042-01-16 12:00 G 7580295.87 7580296.00 7580296.13 0.0071 0.0006

Pluto 16042-04-14 12:43 G 7580383.90 7580384.03 7580384.16 0.0072 0.0004

Pluto 16042-07-11 13:12 G 7580471.93 7580472.05 7580472.19 0.0072 0.0014

Pluto 16042-10-07 14:09 G 7580559.96 7580560.09 7580560.21 0.0072 0.0023

Moon 16042-10-20 22:33 G 7580573.32 7580573.44 7580573.56 0.2689 0.1076

Earth 16042-10-20 22:33 G 7580573.32 7580573.44 7580573.56 0.2682 0.1115 *

Pluto 16043-01-03 14:38 G 7580648.00 7580648.11 7580648.23 0.0072 0.0033

Pluto 16043-04-01 15:07 G 7580736.04 7580736.13 7580736.25 0.0072 0.0043

Pluto 16043-06-28 15:50 G 7580824.08 7580824.16 7580824.26 0.0072 0.0053

Pluto 16043-09-24 16:48 G 7580912.14 7580912.20 7580912.27 0.0072 0.0063

Jupiter 16044-05-25 10:04 G 7581155.77 7581155.92 7581156.07 0.0538 0.0069

Mars	16045-09-13 19:40 G	7581632.18	7581632.32	7581632.45	0.1586	0.0571
Uranus	16046-04-29 12:14 G	7581860.01	7581860.01	7581860.03	0.0133	0.0132
Uranus	16046-07-26 16:19 G	7581948.11	7581948.18	7581948.27	0.0133	0.0114
Uranus	16046-10-22 20:38 G	7582036.26	7582036.36	7582036.47	0.0133	0.0095
Uranus	16047-01-19 00:43 G	7582124.41	7582124.53	7582124.66	0.0133	0.0077
Uranus	16047-04-17 04:48 G	7582212.57	7582212.70	7582212.84	0.0133	0.0059
Saturn	16047-07-11 07:12 G	7582297.68	7582297.80	7582297.92	0.0278	0.0166
Uranus	16047-07-14 08:52 G	7582300.73	7582300.87	7582301.01	0.0133	0.0041
Saturn	16047-10-07 22:33 G	7582386.29	7582386.44	7582386.59	0.0278	0.0057
Uranus	16047-10-10 12:57 G	7582388.89	7582389.04	7582389.19	0.0133	0.0023
Saturn	16048-01-04 13:40 G	7582474.92	7582475.07	7582475.22	0.0278	0.0051
Uranus	16048-01-06 16:48 G	7582477.05	7582477.20	7582477.35	0.0133	0.0006
Saturn	16048-04-02 04:19 G	7582563.56	7582563.68	7582563.81	0.0278	0.0156
Uranus	16048-04-03 20:52 G	7582565.22	7582565.37	7582565.52	0.0133	0.0013
Saturn	16048-06-29 18:43 G	7582652.23	7582652.28	7582652.34	0.0278	0.0258
Uranus	16048-07-01 00:43 G	7582653.39	7582653.53	7582653.68	0.0133	0.0031
Uranus	16048-09-27 04:33 G	7582741.56	7582741.69	7582741.83	0.0133	0.0048
Uranus	16048-12-24 08:38 G	7582829.73	7582829.86	7582829.98	0.0133	0.0066
Uranus	16049-03-22 12:14 G	7582917.90	7582918.01	7582918.13	0.0133	0.0083
Uranus	16049-06-18 16:04 G	7583006.08	7583006.17	7583006.27	0.0133	0.0100
Uranus	16049-09-14 19:55 G	7583094.27	7583094.33	7583094.40	0.0133	0.0117
Jupiter	16050-01-09 22:33 G	7583211.29	7583211.44	7583211.60	0.0490	0.0031
Mars	16050-06-06 16:04 G	7583359.05	7583359.17	7583359.28	0.1952	0.0643
Venus	16052-05-07 15:36 G	7584060.07	7584060.15	7584060.24	0.3688	0.2492
Moon	16053-04-24 09:07 G	7584411.81	7584411.88	7584411.94	0.2656	0.2225
Earth	16053-04-24 09:07 G	7584411.81	7584411.88	7584411.95	0.2650	0.2165 *
Mars	16055-02-04 02:24 G	7585062.50	7585062.60	7585062.69	0.1587	0.1225
Jupiter	16056-03-13 10:33 G	7585465.80	7585465.94	7585466.09	0.0537	0.0121
Mars	16057-01-10 00:57 G	7585768.53	7585768.54	7585768.55	0.1585	0.1572
Venus	16057-11-21 10:48 G	7586083.84	7586083.95	7586084.06	0.3689	0.1020

Venus	16059-06-04 12:43 G	7586643.94	7586644.03	7586644.12	0.3682	0.2600
Mars	16059-10-27 21:07 G	7586789.26	7586789.38	7586789.50	0.1951	0.0462
Earth	16060-04-16 23:31 G	7586961.48	7586961.48	7586961.49	0.2648	0.2637
Jupiter	16061-10-29 00:57 G	7587521.40	7587521.54	7587521.68	0.0491	0.0170
Jupiter	16062-01-26 14:52 G	7587611.03	7587611.12	7587611.20	0.0489	0.0406
Saturn	16062-04-21 11:02 G	7587695.88	7587695.96	7587696.04	0.0280	0.0233
Saturn	16062-07-19 02:09 G	7587784.46	7587784.59	7587784.73	0.0281	0.0126
Saturn	16062-10-15 18:00 G	7587873.10	7587873.25	7587873.41	0.0281	0.0015
Moon	16062-10-16 05:02 G	7587873.70	7587873.71	7587873.71	0.2686	0.2679
Earth	16062-10-16 06:00 G	7587873.70	7587873.75	7587873.80	0.2684	0.2473 *
Saturn	16063-01-12 10:04 G	7587961.77	7587961.92	7587962.07	0.0281	0.0099
Saturn	16063-04-11 02:24 G	7588050.51	7588050.60	7588050.71	0.0281	0.0215
Venus	16063-06-07 05:16 G	7588107.61	7588107.72	7588107.84	0.3689	0.0425
Venus	16064-12-18 11:31 G	7588667.85	7588667.98	7588668.11	0.3682	0.0717
Mars	16066-06-02 06:57 G	7589198.67	7589198.79	7589198.92	0.1585	0.0881
Jupiter	16067-12-31 10:33 G	7589775.82	7589775.94	7589776.06	0.0537	0.0322
Jupiter	16068-03-30 05:02 G	7589865.62	7589865.71	7589865.80	0.0540	0.0414
Venus	16068-12-20 23:45 G	7590131.39	7590131.49	7590131.59	0.3690	0.1781
Mars	16069-03-19 01:40 G	7590219.50	7590219.57	7590219.64	0.1950	0.1605
Venus	16070-07-04 10:48 G	7590691.83	7590691.95	7590692.07	0.3681	0.1269
Moon	16073-04-19 19:55 G	7591712.21	7591712.33	7591712.44	0.2650	0.0972
Earth	16073-04-19 20:52 G	7591712.25	7591712.37	7591712.48	0.2649	0.0874 *
Jupiter	16073-08-17 03:36 G	7591831.53	7591831.65	7591831.77	0.0491	0.0305
Jupiter	16073-11-14 17:02 G	7591921.08	7591921.21	7591921.34	0.0489	0.0265
Venus	16074-07-06 18:00 G	7592155.19	7592155.25	7592155.31	0.3690	0.3098
Moon	16075-10-19 04:04 G	7592624.54	7592624.67	7592624.80	0.2688	0.0607
Earth	16075-10-19 04:48 G	7592624.57	7592624.70	7592624.83	0.2683	0.0512 *
Mars	16075-10-23 13:26 G	7592628.91	7592629.06	7592629.21	0.1585	0.0198
Venus	16076-01-18 10:48 G	7592715.90	7592715.95	7592716.00	0.3681	0.3378
Saturn	16076-11-27 09:21 G	7593029.79	7593029.89	7593030.01	0.0278	0.0190

Saturn 16077-02-24 00:57 G 7593118.40 7593118.54 7593118.69 0.0278 0.0080

Saturn 16077-05-23 16:04 G 7593207.02 7593207.17 7593207.33 0.0278 0.0029

Saturn 16077-08-20 06:57 G 7593295.66 7593295.79 7593295.92 0.0277 0.0132

Saturn 16077-11-16 21:21 G 7593384.31 7593384.39 7593384.47 0.0277 0.0234

Jupiter 16079-10-19 11:16 G 7594085.93 7594085.97 7594086.02 0.0537 0.0507

Jupiter 16080-01-17 06:28 G 7594175.64 7594175.77 7594175.90 0.0539 0.0237

Mars 16080-07-15 10:48 G 7594355.91 7594355.95 7594355.99 0.1952 0.1823

Mars 16085-03-14 19:55 G 7596059.19 7596059.33 7596059.47 0.1586 0.0475

Jupiter 16085-06-05 06:00 G 7596141.69 7596141.75 7596141.81 0.0492 0.0444

Jupiter 16085-09-02 19:12 G 7596231.15 7596231.30 7596231.45 0.0489 0.0121

Moon 16086-04-22 17:02 G 7596463.10 7596463.21 7596463.33 0.2655 0.0799

Earth 16086-04-22 17:45 G 7596463.12 7596463.24 7596463.36 0.2649 0.0850 *

Uranus 16088-01-30 20:52 G 7597111.33 7597111.37 7597111.43 0.0145 0.0137

Uranus 16088-04-28 02:52 G 7597199.52 7597199.62 7597199.72 0.0145 0.0113

Uranus 16088-07-25 08:38 G 7597287.74 7597287.86 7597287.99 0.0145 0.0088

Earth 16088-10-21 04:04 G 7597375.56 7597375.67 7597375.78 0.2682 0.1529

Moon 16088-10-21 04:04 G 7597375.57 7597375.67 7597375.78 0.2689 0.1581 *

Uranus 16088-10-21 14:38 G 7597375.96 7597376.11 7597376.26 0.0145 0.0063

Uranus 16089-01-17 20:38 G 7597464.20 7597464.36 7597464.52 0.0145 0.0037

Uranus 16089-04-16 02:38 G 7597552.45 7597552.61 7597552.78 0.0145 0.0012

Uranus 16089-07-13 08:52 G 7597640.70 7597640.87 7597641.03 0.0145 0.0014

Uranus 16089-10-09 14:52 G 7597728.96 7597729.12 7597729.28 0.0145 0.0040

Mars 16089-12-05 16:04 G 7597786.06 7597786.17 7597786.29 0.1952 0.0747

Uranus 16090-01-05 20:52 G 7597817.23 7597817.37 7597817.53 0.0145 0.0067

Uranus 16090-04-04 03:07 G 7597905.51 7597905.63 7597905.77 0.0145 0.0093

Uranus 16090-07-01 09:36 G 7597993.81 7597993.90 7597994.00 0.0145 0.0119

Uranus 16090-09-27 16:04 G 7598082.17 7598082.17 7598082.17 0.0145 0.0145

Saturn 16091-09-08 11:16 G 7598427.93 7598427.97 7598428.01 0.0281 0.0270

Jupiter 16091-11-05 07:55 G 7598485.68 7598485.83 7598485.98 0.0539 0.0063

Saturn 16091-12-06 02:24 G 7598516.48 7598516.60 7598516.73 0.0281 0.0163

Saturn 16092-03-03 18:00 G 7598605.10 7598605.25 7598605.40 0.0281 0.0054

Saturn 16092-05-31 09:50 G 7598693.76 7598693.91 7598694.07 0.0281 0.0059

Saturn 16092-08-28 02:09 G 7598782.47 7598782.59 7598782.72 0.0281 0.0174

Mars 16094-08-05 02:38 G 7599489.51 7599489.61 7599489.71 0.1587 0.1131

Jupiter 16097-06-21 21:21 G 7600541.23 7600541.39 7600541.54 0.0490 0.0023

Earth 16099-04-25 14:24 G 7601214.06 7601214.10 7601214.13 0.2650 0.2517

Moon 16099-04-25 14:38 G 7601214.07 7601214.11 7601214.14 0.2656 0.2514 *

Mars 16099-04-27 21:07 G 7601216.26 7601216.38 7601216.50 0.1952 0.0362

Venus 16103-05-30 18:57 G 7602709.26 7602709.29 7602709.32 0.3688 0.3541

Jupiter 16103-08-25 09:07 G 7602795.73 7602795.88 7602796.02 0.0538 0.0118

Mars 16105-12-02 07:26 G 7603625.69 7603625.81 7603625.93 0.1585 0.0977

Saturn 16106-04-17 10:04 G 7603761.83 7603761.92 7603762.01 0.0278 0.0227

Moon 16106-04-19 04:04 G 7603763.61 7603763.67 7603763.73 0.2645 0.2314

Earth 16106-04-19 05:02 G 7603763.64 7603763.71 7603763.77 0.2648 0.2268 *

Saturn 16106-07-15 01:40 G 7603850.43 7603850.57 7603850.71 0.0278 0.0116

Saturn 16106-10-11 17:02 G 7603939.05 7603939.21 7603939.36 0.0278 0.0009

Saturn 16107-01-08 07:55 G 7604027.69 7604027.83 7604027.97 0.0278 0.0099

Saturn 16107-04-06 22:19 G 7604116.34 7604116.43 7604116.54 0.0278 0.0203

Mars 16108-09-18 02:09 G 7604646.50 7604646.59 7604646.67 0.1950 0.1477

Moon 16108-10-17 10:19 G 7604675.86 7604675.93 7604676.01 0.2686 0.2147

Earth 16108-10-17 11:31 G 7604675.90 7604675.98 7604676.06 0.2684 0.2079 *

Venus 16108-12-13 14:09 G 7604732.99 7604733.09 7604733.18 0.3689 0.2027

Jupiter 16109-04-10 23:02 G 7604851.32 7604851.46 7604851.60 0.0491 0.0171

Jupiter 16109-07-09 12:43 G 7604940.95 7604941.03 7604941.12 0.0489 0.0405

Venus 16114-06-29 09:07 G 7606756.76 7606756.88 7606756.99 0.3689 0.0576

Mars 16115-04-24 13:40 G 7607055.93 7607056.07 7607056.22 0.1585 0.0298

Jupiter 16115-06-13 09:21 G 7607105.77 7607105.89 7607106.02 0.0537 0.0309

Jupiter 16115-09-11 03:50 G 7607195.58 7607195.66 7607195.75 0.0539 0.0426

Venus 16116-01-10 12:00 G 7607316.90 7607317.00 7607317.11 0.3682 0.2034

Neptune 16116-12-24 00:14 G 7607665.50 7607665.51 7607665.54 0.0088 0.0087

Neptune 16117-03-22 02:09 G 7607753.54 7607753.59 7607753.67 0.0088 0.0080

Neptune 16117-06-18 04:19 G 7607841.60 7607841.68 7607841.78 0.0088 0.0072

Neptune 16117-09-14 06:14 G 7607929.67 7607929.76 7607929.88 0.0088 0.0065

Neptune 16117-12-11 08:38 G 7608017.75 7608017.86 7608017.98 0.0088 0.0057

Neptune 16118-03-09 10:48 G 7608105.82 7608105.95 7608106.08 0.0088 0.0049

Neptune 16118-06-05 12:43 G 7608193.90 7608194.03 7608194.18 0.0088 0.0042

Neptune 16118-09-01 14:52 G 7608281.98 7608282.12 7608282.28 0.0088 0.0034

Neptune 16118-11-28 17:16 G 7608370.07 7608370.22 7608370.37 0.0088 0.0026

Neptune 16119-02-24 19:12 G 7608458.15 7608458.30 7608458.46 0.0088 0.0019

Moon 16119-04-22 01:12 G 7608514.43 7608514.55 7608514.67 0.2652 0.0669

Earth 16119-04-22 02:09 G 7608514.47 7608514.59 7608514.71 0.2649 0.0501 *

Neptune 16119-05-23 21:36 G 7608546.24 7608546.40 7608546.56 0.0088 0.0011

Neptune 16119-08-19 23:45 G 7608634.33 7608634.49 7608634.65 0.0088 0.0003

Neptune 16119-11-16 01:55 G 7608722.42 7608722.58 7608722.74 0.0088 0.0005

Venus 16120-01-13 03:36 G 7608780.54 7608780.65 7608780.76 0.3690 0.0837

Mars 16120-01-15 11:02 G 7608782.95 7608782.96 7608782.97 0.1952 0.1935

Neptune 16120-02-12 04:04 G 7608810.51 7608810.67 7608810.83 0.0088 0.0013

Neptune 16120-05-10 06:14 G 7608898.61 7608898.76 7608898.92 0.0088 0.0021

Neptune 16120-08-06 08:24 G 7608986.70 7608986.85 7608987.01 0.0088 0.0029

Neptune 16120-11-02 10:33 G 7609074.80 7609074.94 7609075.09 0.0088 0.0037

Jupiter 16121-01-28 01:26 G 7609161.44 7609161.56 7609161.67 0.0491 0.0311

Neptune 16121-01-29 12:43 G 7609162.90 7609163.03 7609163.18 0.0088 0.0045

Saturn 16121-04-25 05:31 G 7609248.62 7609248.73 7609248.85 0.0281 0.0182

Jupiter 16121-04-27 14:52 G 7609250.99 7609251.12 7609251.25 0.0489 0.0260

Neptune 16121-04-27 14:52 G 7609251.00 7609251.12 7609251.26 0.0088 0.0053 *

Saturn 16121-07-22 21:07 G 7609337.23 7609337.38 7609337.53 0.0281 0.0073

Neptune 16121-07-24 17:02 G 7609339.11 7609339.21 7609339.34 0.0088 0.0061

Venus 16121-07-26 11:02 G 7609340.83 7609340.96 7609341.09 0.3681 0.0145

Saturn 16121-10-19 12:57 G 7609425.88 7609426.04 7609426.19 0.0281 0.0039

Moon 16121-10-20 09:50 G 7609426.78 7609426.91 7609427.04 0.2689 0.0209

Earth 16121-10-20 10:19 G 7609426.80 7609426.93 7609427.06 0.2683 0.0119 *

Neptune 16121-10-20 19:12 G 7609427.22 7609427.30 7609427.42 0.0088 0.0069

Saturn 16122-01-16 05:02 G 7609514.58 7609514.71 7609514.85 0.0281 0.0154

Neptune 16122-01-16 21:36 G 7609515.34 7609515.40 7609515.49 0.0088 0.0077

Saturn 16122-04-14 21:36 G 7609603.37 7609603.40 7609603.45 0.0281 0.0271

Neptune 16122-04-14 23:45 G 7609603.47 7609603.49 7609603.55 0.0088 0.0085

Mars 16124-09-13 20:24 G 7610486.20 7610486.35 7610486.49 0.1586 0.0374

Venus 16125-07-28 22:04 G 7610804.33 7610804.42 7610804.51 0.3690 0.2197

Pluto 16125-12-30 01:40 G 7610958.53 7610958.57 7610958.65 0.0074 0.0070

Pluto 16126-03-28 04:04 G 7611046.56 7611046.67 7611046.82 0.0073 0.0055

Pluto 16126-06-24 06:43 G 7611134.63 7611134.78 7611134.95 0.0073 0.0039

Pluto 16126-09-20 09:07 G 7611222.71 7611222.88 7611223.07 0.0073 0.0025

Pluto 16126-12-17 11:45 G 7611310.80 7611310.99 7611311.18 0.0073 0.0009

Venus 16127-02-09 10:33 G 7611364.83 7611364.94 7611365.05 0.3681 0.1905

Pluto 16127-03-15 14:09 G 7611398.89 7611399.09 7611399.28 0.0073 0.0005

Jupiter 16127-04-01 08:52 G 7611415.84 7611415.87 7611415.92 0.0536 0.0515

Pluto 16127-06-11 16:19 G 7611487.00 7611487.18 7611487.37 0.0073 0.0020

Jupiter 16127-06-30 04:04 G 7611505.54 7611505.67 7611505.81 0.0539 0.0231

Pluto 16127-09-07 18:28 G 7611575.11 7611575.27 7611575.45 0.0073 0.0035

Pluto 16127-12-04 20:52 G 7611663.24 7611663.37 7611663.52 0.0073 0.0049

Pluto 16128-03-01 22:48 G 7611751.38 7611751.45 7611751.57 0.0072 0.0064

Mars 16129-06-06 16:19 G 7612213.07 7612213.18 7612213.29 0.1952 0.0859

Uranus 16130-05-20 20:09 G 7612561.29 7612561.34 7612561.39 0.0133 0.0125

Uranus 16130-08-17 00:00 G 7612649.42 7612649.50 7612649.60 0.0133 0.0107

Uranus 16130-11-13 04:04 G 7612737.57 7612737.67 7612737.80 0.0133 0.0089

Uranus 16131-02-09 08:24 G 7612825.73 7612825.85 7612825.98 0.0133 0.0070

Venus 16131-02-11 16:04 G 7612828.14 7612828.17 7612828.21 0.3690 0.3495

Uranus 16131-05-08 12:28 G 7612913.89 7612914.02 7612914.16 0.0133 0.0052

Uranus 16131-08-04 16:33 G 7613002.05 7613002.19 7613002.34 0.0133 0.0034

Uranus 16131-10-31 20:38 G 7613090.21 7613090.36 7613090.51 0.0133 0.0016

Uranus 16132-01-28 00:43 G 7613178.38 7613178.53 7613178.68 0.0133 0.0003

Moon 16132-04-23 22:33 G 7613265.33 7613265.44 7613265.55 0.2655 0.1149

Earth 16132-04-23 23:02 G 7613265.35 7613265.46 7613265.57 0.2649 0.1209 *

Uranus 16132-04-25 04:33 G 7613266.54 7613266.69 7613266.84 0.0133 0.0020

Uranus 16132-07-22 08:24 G 7613354.71 7613354.85 7613355.00 0.0133 0.0038

Uranus 16132-10-18 12:14 G 7613442.88 7613443.01 7613443.15 0.0133 0.0055

Jupiter 16132-11-16 04:04 G 7613471.61 7613471.67 7613471.74 0.0492 0.0444

Uranus 16133-01-14 16:04 G 7613531.06 7613531.17 7613531.30 0.0133 0.0073

Jupiter 16133-02-13 17:16 G 7613561.07 7613561.22 7613561.37 0.0490 0.0121

Uranus 16133-04-12 20:09 G 7613619.23 7613619.34 7613619.45 0.0133 0.0090

Uranus 16133-07-09 23:45 G 7613707.41 7613707.49 7613707.58 0.0133 0.0107

Uranus 16133-10-06 03:21 G 7613795.61 7613795.64 7613795.71 0.0133 0.0125

Mars 16134-02-04 02:52 G 7613916.51 7613916.62 7613916.73 0.1586 0.1035

Earth 16134-10-23 09:36 G 7614177.81 7614177.90 7614177.99 0.2682 0.1947

Moon 16134-10-23 09:50 G 7614177.82 7614177.91 7614178.00 0.2689 0.1967 *

Saturn 16135-09-04 12:43 G 7614493.96 7614494.03 7614494.09 0.0278 0.0249

Saturn 16135-12-02 04:19 G 7614582.55 7614582.68 7614582.82 0.0278 0.0137

Saturn 16136-02-28 19:40 G 7614671.17 7614671.32 7614671.47 0.0278 0.0029

Saturn 16136-05-27 10:33 G 7614759.80 7614759.94 7614760.09 0.0278 0.0078

Saturn 16136-08-24 01:12 G 7614848.44 7614848.55 7614848.67 0.0277 0.0181

Mars 16138-10-27 21:21 G 7615643.27 7615643.39 7615643.52 0.1951 0.0242

Jupiter 16139-04-18 05:16 G 7615815.57 7615815.72 7615815.87 0.0539 0.0050

Jupiter 16144-12-02 19:26 G 7617871.16 7617871.31 7617871.46 0.0490 0.0022

Mars 16145-06-02 07:40 G 7618052.72 7618052.82 7618052.93 0.1585 0.1078

Mars 16148-03-19 02:09 G 7619073.50 7619073.59 7619073.68 0.1950 0.1380

Saturn 16150-09-12 05:45 G 7619980.65 7619980.74 7619980.84 0.0281 0.0219

Saturn 16150-12-09 21:07 G 7620069.24 7620069.38 7620069.52 0.0281 0.0111

Jupiter 16151-02-04 06:43 G 7620125.63 7620125.78 7620125.92 0.0538 0.0127

Saturn 16151-03-08 12:57 G 7620157.88 7620158.04 7620158.19 0.0281 0.0007

Saturn 16151-06-05 04:48 G 7620246.56 7620246.70 7620246.85 0.0281 0.0114

Saturn 16151-09-01 21:21 G 7620335.30 7620335.39 7620335.48 0.0281 0.0229

Moon 16152-04-19 09:21 G 7620565.81 7620565.89 7620565.97 0.2646 0.2085

Earth 16152-04-19 10:19 G 7620565.84 7620565.93 7620566.01 0.2648 0.1891 *

Moon 16154-10-18 15:50 G 7621478.07 7621478.16 7621478.25 0.2686 0.1900

Earth 16154-10-18 17:02 G 7621478.10 7621478.21 7621478.31 0.2683 0.1683 *

Mars 16154-10-23 14:09 G 7621482.94 7621483.09 7621483.23 0.1585 0.0391

Jupiter 16156-09-20 21:36 G 7622181.26 7622181.40 7622181.55 0.0491 0.0163

Jupiter 16156-12-19 11:31 G 7622270.90 7622270.98 7622271.06 0.0488 0.0412

Venus 16160-01-04 17:16 G 7623382.16 7623382.22 7623382.29 0.3688 0.3075

Jupiter 16162-11-23 07:40 G 7624435.70 7624435.82 7624435.95 0.0537 0.0307

Jupiter 16163-02-21 02:09 G 7624525.51 7624525.59 7624525.68 0.0540 0.0430

Mars 16164-03-14 20:38 G 7624913.21 7624913.36 7624913.51 0.1586 0.0279

Saturn 16165-04-20 04:33 G 7625314.58 7625314.69 7625314.82 0.0278 0.0175

Moon 16165-04-22 06:28 G 7625316.65 7625316.77 7625316.90 0.2653 0.0193

Earth 16165-04-22 07:26 G 7625316.68 7625316.81 7625316.93 0.2649 0.0146 *

Saturn 16165-07-17 20:09 G 7625403.19 7625403.34 7625403.49 0.0278 0.0065

Venus 16165-07-20 12:28 G 7625405.92 7625406.02 7625406.13 0.3689 0.1567

Saturn 16165-10-14 11:16 G 7625491.82 7625491.97 7625492.12 0.0278 0.0043

Saturn 16166-01-11 02:09 G 7625580.46 7625580.59 7625580.72 0.0278 0.0147

Saturn 16166-04-09 16:33 G 7625669.13 7625669.19 7625669.25 0.0278 0.0249

Venus 16167-01-31 12:57 G 7625965.98 7625966.04 7625966.09 0.3682 0.3302

Moon 16167-10-21 15:36 G 7626229.02 7626229.15 7626229.28 0.2689 0.0330

Earth 16167-10-21 15:50 G 7626229.03 7626229.16 7626229.29 0.2683 0.0310 *

Jupiter 16168-07-09 23:31 G 7626491.36 7626491.48 7626491.60 0.0491 0.0310

Jupiter 16168-10-07 12:57 G 7626580.91 7626581.04 7626581.17 0.0489 0.0260

Mars 16168-12-05 16:33 G 7626640.08 7626640.19 7626640.30 0.1952 0.0975

Venus 16171-02-03 07:12 G 7627429.69 7627429.80 7627429.92 0.3689 0.0161

Uranus 16172-02-21 04:48 G 7627812.64 7627812.70 7627812.78 0.0145 0.0129

Uranus 16172-05-19 10:33 G 7627900.84 7627900.94 7627901.06 0.0145 0.0104

Uranus 16172-08-15 16:33 G 7627989.06 7627989.19 7627989.33 0.0145 0.0079

Venus 16172-08-16 11:31 G 7627989.86 7627989.98 7627990.09 0.3682 0.1469

Uranus 16172-11-11 22:33 G 7628077.29 7628077.44 7628077.59 0.0145 0.0054

Uranus 16173-02-08 04:33 G 7628165.53 7628165.69 7628165.85 0.0145 0.0029

Uranus 16173-05-07 10:33 G 7628253.78 7628253.94 7628254.11 0.0145 0.0005

Uranus 16173-08-03 16:48 G 7628342.03 7628342.20 7628342.36 0.0145 0.0023

Mars 16173-08-05 03:21 G 7628343.52 7628343.64 7628343.76 0.1586 0.0939

Uranus 16173-10-30 22:48 G 7628430.30 7628430.45 7628430.61 0.0145 0.0049

Uranus 16174-01-27 05:02 G 7628518.57 7628518.71 7628518.85 0.0145 0.0075

Uranus 16174-04-25 11:02 G 7628606.85 7628606.96 7628607.09 0.0145 0.0101

Uranus 16174-07-22 17:31 G 7628695.16 7628695.23 7628695.31 0.0145 0.0127

Jupiter 16174-09-11 08:09 G 7628745.79 7628745.84 7628745.89 0.0536 0.0498

Jupiter 16174-12-10 03:21 G 7628835.51 7628835.64 7628835.77 0.0539 0.0245

Venus 16176-08-19 01:55 G 7629453.47 7629453.58 7629453.68 0.3690 0.1267

Venus 16178-03-02 10:33 G 7630013.81 7630013.94 7630014.07 0.3681 0.0483

Moon 16178-04-25 03:50 G 7630067.56 7630067.66 7630067.77 0.2655 0.1506

Earth 16178-04-25 04:19 G 7630067.58 7630067.68 7630067.78 0.2649 0.1564 *

Mars 16178-04-27 21:36 G 7630070.28 7630070.40 7630070.53 0.1951 0.0129

Saturn 16180-01-30 08:24 G 7630712.78 7630712.85 7630712.93 0.0281 0.0241

Saturn 16180-04-27 23:45 G 7630801.36 7630801.49 7630801.63 0.0281 0.0133

Jupiter 16180-04-28 01:55 G 7630801.53 7630801.58 7630801.64 0.0492 0.0449 *

Saturn 16180-07-25 15:36 G 7630889.99 7630890.15 7630890.30 0.0281 0.0024

Jupiter 16180-07-26 15:07 G 7630890.98 7630891.13 7630891.28 0.0490 0.0117

Saturn 16180-10-22 07:26 G 7630978.67 7630978.81 7630978.96 0.0281 0.0091

Earth 16180-10-23 15:21 G 7630980.08 7630980.14 7630980.20 0.2682 0.2371

Moon 16180-10-23 15:36 G 7630980.09 7630980.15 7630980.21 0.2688 0.2405 *

Saturn 16181-01-18 23:45 G 7631067.39 7631067.49 7631067.60 0.0281 0.0207

Venus 16182-03-04 20:09 G 7631477.26 7631477.34 7631477.42 0.3690 0.2603

Mars 16182-12-26 10:19 G 7631773.92 7631773.93 7631773.93 0.1587 0.1586

Venus 16183-09-16 10:04 G 7632037.83 7632037.92 7632038.02 0.3681 0.2534

Mars 16184-12-01 08:09 G 7632479.75 7632479.84 7632479.94 0.1585 0.1183

Jupiter 16186-09-28 03:07 G 7633145.49 7633145.63 7633145.78 0.0538 0.0045

Mars 16187-09-18 02:24 G 7633500.50 7633500.60 7633500.70 0.1950 0.1256

Jupiter 16192-05-14 17:31 G 7635201.08 7635201.23 7635201.39 0.0490 0.0024

Mars 16194-04-23 14:38 G 7635909.97 7635910.11 7635910.25 0.1585 0.0497

Saturn 16194-09-07 07:26 G 7636046.70 7636046.81 7636046.92 0.0278 0.0195

Saturn 16194-12-04 23:02 G 7636135.31 7636135.46 7636135.61 0.0278 0.0085

Saturn 16195-03-03 14:09 G 7636223.94 7636224.09 7636224.25 0.0278 0.0023

Saturn 16195-05-31 05:02 G 7636312.58 7636312.71 7636312.84 0.0277 0.0127

Saturn 16195-08-27 19:26 G 7636401.23 7636401.31 7636401.40 0.0277 0.0229

Moon 16198-04-20 14:38 G 7637368.01 7637368.11 7637368.21 0.2648 0.1575

Earth 16198-04-20 15:36 G 7637368.05 7637368.15 7637368.25 0.2648 0.1519 *

Jupiter 16198-07-17 04:04 G 7637455.53 7637455.67 7637455.82 0.0538 0.0140

Neptune 16200-03-23 22:33 G 7638070.42 7638070.44 7638070.49 0.0089 0.0087

Neptune 16200-06-20 00:43 G 7638158.47 7638158.53 7638158.62 0.0089 0.0079

Neptune 16200-09-16 03:21 G 7638246.54 7638246.64 7638246.74 0.0089 0.0070

Moon 16200-10-19 21:21 G 7638280.28 7638280.39 7638280.51 0.2687 0.1334

Earth 16200-10-19 22:19 G 7638280.32 7638280.43 7638280.55 0.2683 0.1288 *

Neptune 16200-12-13 05:31 G 7638334.62 7638334.73 7638334.84 0.0089 0.0062

Neptune 16201-03-11 07:26 G 7638422.70 7638422.81 7638422.95 0.0089 0.0054

Neptune 16201-06-07 09:36 G 7638510.78 7638510.90 7638511.05 0.0089 0.0046

Neptune 16201-09-03 11:45 G 7638598.86 7638598.99 7638599.14 0.0089 0.0038

Neptune 16201-11-30 13:55 G 7638686.94 7638687.08 7638687.24 0.0089 0.0030

Neptune 16202-02-26 16:04 G 7638775.03 7638775.17 7638775.33 0.0089 0.0022

Neptune 16202-05-25 18:14 G 7638863.11 7638863.26 7638863.42 0.0089 0.0014

Neptune 16202-08-21 20:24 G 7638951.20 7638951.35 7638951.51 0.0089 0.0006

Neptune 16202-11-17 22:33 G 7639039.29 7639039.44 7639039.60 0.0089 0.0003

Neptune 16203-02-14 00:43 G 7639127.38 7639127.53 7639127.68 0.0089 0.0011

Neptune 16203-05-13 02:38 G 7639215.46 7639215.61 7639215.77 0.0089 0.0019

Neptune 16203-08-09 04:48 G 7639303.56 7639303.70 7639303.85 0.0089 0.0027

Mars 16203-09-14 20:52 G 7639340.23 7639340.37 7639340.52 0.1586 0.0189

Neptune 16203-11-05 06:57 G 7639391.65 7639391.79 7639391.93 0.0089 0.0035

Neptune 16204-02-01 08:52 G 7639479.74 7639479.87 7639480.01 0.0089 0.0042

Jupiter 16204-03-03 19:55 G 7639511.19 7639511.33 7639511.48 0.0491 0.0161

Neptune 16204-04-29 10:48 G 7639567.83 7639567.95 7639568.09 0.0089 0.0050

Jupiter 16204-06-01 09:36 G 7639600.82 7639600.90 7639600.99 0.0488 0.0413

Neptune 16204-07-26 12:43 G 7639655.93 7639656.03 7639656.16 0.0089 0.0058

Neptune 16204-10-22 14:52 G 7639744.03 7639744.12 7639744.23 0.0089 0.0066

Neptune 16205-01-18 16:48 G 7639832.13 7639832.20 7639832.30 0.0089 0.0074

Neptune 16205-04-16 18:43 G 7639920.23 7639920.28 7639920.36 0.0089 0.0081

Neptune 16205-07-13 20:52 G 7640008.36 7640008.37 7640008.39 0.0089 0.0089

Mars 16208-06-06 16:48 G 7641067.09 7641067.20 7641067.30 0.1952 0.1085

Saturn 16209-06-19 09:07 G 7641444.86 7641444.88 7641444.90 0.0281 0.0276

Saturn 16209-09-16 00:14 G 7641533.39 7641533.51 7641533.63 0.0281 0.0170

Saturn 16209-12-13 15:36 G 7641622.00 7641622.15 7641622.30 0.0281 0.0061

Saturn 16210-03-12 07:26 G 7641710.66 7641710.81 7641710.97 0.0281 0.0052

Jupiter 16210-05-06 05:16 G 7641765.60 7641765.72 7641765.84 0.0537 0.0318

Saturn 16210-06-08 23:45 G 7641799.37 7641799.49 7641799.62 0.0281 0.0166

Jupiter 16210-08-04 00:00 G 7641855.41 7641855.50 7641855.59 0.0540 0.0421

Moon 16211-04-24 12:00 G 7642118.87 7642119.00 7642119.12 0.2653 0.0112

Earth 16211-04-24 12:43 G 7642118.90 7642119.03 7642119.15 0.2649 0.0229 *

Mars 16213-02-04 03:36 G 7642770.53 7642770.65 7642770.77 0.1586 0.0848

Moon 16213-10-22 21:07 G 7643031.26 7643031.38 7643031.51 0.2690 0.0611

Earth 16213-10-22 21:21 G 7643031.27 7643031.39 7643031.52 0.2683 0.0719 *

Uranus 16214-06-11 03:50 G 7643262.59 7643262.66 7643262.73 0.0133 0.0118

Uranus 16214-09-07 07:55 G 7643350.74 7643350.83 7643350.93 0.0133 0.0100

Uranus 16214-12-04 12:00 G 7643438.89 7643439.00 7643439.13 0.0133 0.0082

Uranus 16215-03-02 16:19 G 7643527.04 7643527.18 7643527.31 0.0133 0.0063

Uranus 16215-05-29 20:09 G 7643615.20 7643615.34 7643615.49 0.0133 0.0046

Uranus 16215-08-26 00:14 G 7643703.37 7643703.51 7643703.66 0.0133 0.0027

Uranus 16215-11-22 04:19 G 7643791.53 7643791.68 7643791.83 0.0133 0.0009

Jupiter 16215-12-21 22:19 G 7643821.32 7643821.43 7643821.55 0.0491 0.0300

Uranus 16216-02-18 08:24 G 7643879.70 7643879.85 7643880.00 0.0133 0.0009

Jupiter 16216-03-20 11:45 G 7643910.86 7643910.99 7643911.12 0.0489 0.0269

Uranus 16216-05-16 12:14 G 7643967.87 7643968.01 7643968.16 0.0133 0.0026

Venus 16216-08-11 15:50 G 7644055.08 7644055.16 7644055.24 0.3688 0.2603

Uranus 16216-08-12 16:04 G 7644056.04 7644056.17 7644056.32 0.0133 0.0044

Uranus 16216-11-08 20:09 G 7644144.21 7644144.34 7644144.47 0.0133 0.0062

Uranus 16217-02-04 23:45 G 7644232.38 7644232.49 7644232.62 0.0133 0.0080

Uranus 16217-05-04 03:36 G 7644320.56 7644320.65 7644320.76 0.0133 0.0097

Uranus 16217-07-31 07:26 G 7644408.74 7644408.81 7644408.89 0.0133 0.0114

Uranus 16217-10-27 11:16 G 7644496.95 7644496.97 7644497.00 0.0133 0.0131

Mars 16217-10-27 21:50 G 7644497.28 7644497.41 7644497.53 0.1952 0.0074

Jupiter 16222-02-22 06:28 G 7646075.71 7646075.77 7646075.82 0.0536 0.0497

Venus 16222-02-25 10:48 G 7646078.84 7646078.95 7646079.06 0.3689 0.1123

Jupiter 16222-05-23 01:40 G 7646165.44 7646165.57 7646165.70 0.0539 0.0248

Mars 16222-06-27 10:33 G 7646200.89 7646200.94 7646200.99 0.1587 0.1493

Venus 16223-09-08 12:00 G 7646638.92 7646639.00 7646639.09 0.3682 0.2756

Saturn 16224-01-26 07:26 G 7646778.73 7646778.81 7646778.89 0.0278 0.0235

Saturn 16224-04-23 23:02 G 7646867.33 7646867.46 7646867.60 0.0278 0.0125

Moon 16224-04-26 09:21 G 7646869.81 7646869.89 7646869.97 0.2656 0.1960

Earth 16224-04-26 09:21 G 7646869.81 7646869.89 7646869.98 0.2649 0.1913 *

Mars 16224-06-02 08:38 G 7646906.77 7646906.86 7646906.94 0.1585 0.1281

Saturn 16224-07-21 14:24 G 7646955.95 7646956.10 7646956.26 0.0278 0.0016

Saturn 16224-10-18 05:31 G 7647044.58 7647044.73 7647044.87 0.0278 0.0091

Saturn 16225-01-14 20:09 G 7647133.23 7647133.34 7647133.44 0.0278 0.0194

Mars 16227-03-20 02:38 G 7647927.51 7647927.61 7647927.71 0.1951 0.1136

Venus 16227-09-11 05:31 G 7648102.62 7648102.73 7648102.85 0.3689 0.0311

Jupiter 16227-10-10 00:14 G 7648131.45 7648131.51 7648131.58 0.0492 0.0447

Jupiter 16228-01-07 13:26 G 7648220.91 7648221.06 7648221.21 0.0490 0.0119

Venus 16229-03-24 10:48 G 7648662.83 7648662.95 7648663.08 0.3682 0.0883

Venus	16233-03-27 00:00 G	7650126.40	7650126.50	7650126.60	0.3690	0.1691
Mars	16233-10-23 14:52 G	7650336.98	7650337.12	7650337.26	0.1585	0.0595
Jupiter	16234-03-11 02:24 G	7650475.46	7650475.60	7650475.75	0.0538	0.0063
Venus	16234-10-08 10:04 G	7650686.80	7650686.92	7650687.05	0.3681	0.1098
Venus	16238-10-10 18:14 G	7652150.20	7652150.26	7652150.33	0.3690	0.3018
Saturn	16239-02-03 02:24 G	7652265.49	7652265.60	7652265.71	0.0281	0.0195
Saturn	16239-05-02 17:45 G	7652354.10	7652354.24	7652354.39	0.0281	0.0086
Saturn	16239-07-30 09:36 G	7652442.75	7652442.90	7652443.06	0.0281	0.0025
Jupiter	16239-10-26 15:36 G	7652531.00	7652531.15	7652531.30	0.0490	0.0024
Saturn	16239-10-27 01:40 G	7652531.44	7652531.57	7652531.71	0.0281	0.0140
Saturn	16240-01-23 18:28 G	7652620.20	7652620.27	7652620.33	0.0281	0.0257
Venus	16240-04-23 09:50 G	7652710.85	7652710.91	7652710.97	0.3680	0.3186
Mars	16243-03-15 21:21 G	7653767.24	7653767.39	7653767.54	0.1586	0.0084
Moon	16244-04-21 19:55 G	7654170.22	7654170.33	7654170.44	0.2649	0.1338
Earth	16244-04-21 20:52 G	7654170.26	7654170.37	7654170.48	0.2648	0.1150 *
Jupiter	16245-12-28 02:09 G	7654785.45	7654785.59	7654785.74	0.0537	0.0142
Moon	16246-10-21 03:07 G	7655082.51	7655082.63	7655082.75	0.2688	0.1055
Earth	16246-10-21 03:50 G	7655082.54	7655082.66	7655082.78	0.2683	0.0886 *
Mars	16247-12-06 16:48 G	7655494.10	7655494.20	7655494.30	0.1952	0.1191
Jupiter	16251-08-14 18:14 G	7656841.12	7656841.26	7656841.40	0.0491	0.0159
Jupiter	16251-11-12 07:55 G	7656930.75	7656930.83	7656930.91	0.0489	0.0416
Mars	16252-08-05 04:04 G	7657197.54	7657197.67	7657197.80	0.1586	0.0747
Saturn	16253-06-14 10:19 G	7657510.87	7657510.93	7657510.99	0.0278	0.0255
Saturn	16253-09-11 01:55 G	7657599.45	7657599.58	7657599.72	0.0278	0.0144
Saturn	16253-12-08 17:31 G	7657688.08	7657688.23	7657688.38	0.0278	0.0035
Saturn	16254-03-07 08:24 G	7657776.71	7657776.85	7657777.00	0.0278	0.0072
Saturn	16254-06-03 23:02 G	7657865.35	7657865.46	7657865.58	0.0277	0.0175
Saturn	16254-08-31 13:26 G	7657954.05	7657954.06	7657954.07	0.0277	0.0276
Uranus	16256-03-13 12:28 G	7658513.94	7658514.02	7658514.11	0.0145	0.0122
Uranus	16256-06-09 18:14 G	7658602.15	7658602.26	7658602.39	0.0145	0.0097

Uranus 16256-09-06 00:00 G 7658690.37 7658690.50 7658690.65 0.0145 0.0073

Uranus 16256-12-03 06:00 G 7658778.60 7658778.75 7658778.91 0.0145 0.0047

Uranus 16257-03-01 12:14 G 7658866.85 7658867.01 7658867.17 0.0145 0.0022

Moon 16257-04-24 17:16 G 7658921.10 7658921.22 7658921.34 0.2653 0.0564

Earth 16257-04-24 18:00 G 7658921.13 7658921.25 7658921.37 0.2649 0.0586 *

Mars 16257-04-27 22:04 G 7658924.29 7658924.42 7658924.54 0.1952 0.0104

Uranus 16257-05-28 18:14 G 7658955.09 7658955.26 7658955.42 0.0145 0.0004

Uranus 16257-08-25 00:14 G 7659043.35 7659043.51 7659043.67 0.0145 0.0030

Jupiter 16257-10-16 02:52 G 7659095.50 7659095.62 7659095.74 0.0537 0.0328

Uranus 16257-11-21 06:28 G 7659131.61 7659131.77 7659131.92 0.0145 0.0056

Jupiter 16258-01-13 21:36 G 7659185.31 7659185.40 7659185.50 0.0540 0.0410

Uranus 16258-02-17 12:14 G 7659219.89 7659220.01 7659220.16 0.0145 0.0083

Uranus 16258-05-16 18:28 G 7659308.17 7659308.27 7659308.40 0.0145 0.0109

Uranus 16258-08-13 00:57 G 7659396.49 7659396.54 7659396.61 0.0145 0.0134

Moon 16259-10-24 02:38 G 7659833.50 7659833.61 7659833.73 0.2689 0.1185

Earth 16259-10-24 02:52 G 7659833.50 7659833.62 7659833.74 0.2682 0.1126 *

Mars 16261-12-26 10:48 G 7660627.89 7660627.95 7660628.02 0.1587 0.1403

Jupiter 16263-06-02 20:38 G 7661151.24 7661151.36 7661151.48 0.0491 0.0297

Jupiter 16263-08-31 10:04 G 7661240.79 7661240.92 7661241.05 0.0489 0.0272

Mars 16263-12-02 08:52 G 7661333.80 7661333.87 7661333.95 0.1585 0.1385

Mars 16266-09-18 02:52 G 7662354.51 7662354.62 7662354.72 0.1950 0.1031

Venus 16267-09-02 18:57 G 7662704.28 7662704.29 7662704.30 0.3688 0.3667

Saturn 16268-06-22 02:52 G 7662997.54 7662997.62 7662997.70 0.0281 0.0231

Saturn 16268-09-18 18:00 G 7663086.12 7663086.25 7663086.39 0.0281 0.0124

Saturn 16268-12-16 09:50 G 7663174.75 7663174.91 7663175.06 0.0281 0.0014

Saturn 16269-03-15 01:40 G 7663263.43 7663263.57 7663263.72 0.0281 0.0101

Saturn 16269-06-11 18:00 G 7663352.16 7663352.25 7663352.36 0.0281 0.0216

Jupiter 16269-08-04 03:50 G 7663405.62 7663405.66 7663405.71 0.0537 0.0509

Jupiter 16269-11-01 23:16 G 7663495.34 7663495.47 7663495.60 0.0539 0.0238

Moon 16270-04-27 14:38 G 7663672.05 7663672.11 7663672.18 0.2657 0.2216

Earth 16270-04-27 14:38 G 7663672.05 7663672.11 7663672.17 0.2650 0.2267 *

Venus 16273-03-18 14:09 G 7664728.00 7664728.09 7664728.19 0.3688 0.2142

Mars 16273-04-23 15:21 G 7664764.00 7664764.14 7664764.27 0.1585 0.0692

Jupiter 16275-03-21 23:16 G 7665461.40 7665461.47 7665461.54 0.0492 0.0434

Jupiter 16275-06-19 12:14 G 7665550.86 7665551.01 7665551.16 0.0490 0.0130

Earth 16277-04-20 04:48 G 7666221.68 7666221.70 7666221.73 0.2648 0.2567

Venus 16278-10-02 09:07 G 7666751.77 7666751.88 7666751.99 0.3689 0.0674

Moon 16279-10-19 09:36 G 7667133.87 7667133.90 7667133.93 0.2684 0.2600

Earth 16279-10-19 10:33 G 7667133.89 7667133.94 7667134.00 0.2684 0.2429 *

Venus 16280-04-14 11:31 G 7667311.88 7667311.98 7667312.08 0.3682 0.2182

Jupiter 16281-08-21 00:43 G 7667805.39 7667805.53 7667805.68 0.0538 0.0066

Neptune 16281-09-20 23:02 G 7667836.43 7667836.46 7667836.50 0.0088 0.0085

Neptune 16281-12-18 00:57 G 7667924.48 7667924.54 7667924.62 0.0088 0.0078

Neptune 16282-03-16 03:07 G 7668012.55 7668012.63 7668012.73 0.0088 0.0070

Neptune 16282-06-12 05:02 G 7668100.62 7668100.71 7668100.83 0.0088 0.0063

Neptune 16282-09-08 07:26 G 7668188.69 7668188.81 7668188.93 0.0088 0.0055

Mars 16282-09-13 21:50 G 7668194.26 7668194.41 7668194.55 0.1586 0.0044

Neptune 16282-12-05 09:21 G 7668276.77 7668276.89 7668277.03 0.0088 0.0048

Saturn 16283-01-29 01:40 G 7668331.46 7668331.57 7668331.69 0.0278 0.0186

Neptune 16283-03-03 11:31 G 7668364.84 7668364.98 7668365.13 0.0088 0.0040

Saturn 16283-04-27 17:16 G 7668420.07 7668420.22 7668420.37 0.0278 0.0076

Neptune 16283-05-30 13:40 G 7668452.93 7668453.07 7668453.22 0.0088 0.0032

Saturn 16283-07-25 08:38 G 7668508.70 7668508.86 7668509.01 0.0278 0.0033

Neptune 16283-08-26 15:36 G 7668541.01 7668541.15 7668541.31 0.0088 0.0025

Saturn 16283-10-21 23:16 G 7668597.34 7668597.47 7668597.61 0.0277 0.0137

Neptune 16283-11-22 18:00 G 7668629.09 7668629.25 7668629.41 0.0088 0.0017

Saturn 16284-01-18 13:40 G 7668686.00 7668686.07 7668686.15 0.0277 0.0239

Neptune 16284-02-18 20:09 G 7668717.18 7668717.34 7668717.50 0.0088 0.0009

Venus 16284-04-17 03:50 G 7668775.55 7668775.66 7668775.77 0.3689 0.0748

Neptune 16284-05-16 22:19 G 7668805.27 7668805.43 7668805.59 0.0088 0.0001

Neptune 16284-08-13 00:28 G 7668893.36 7668893.52 7668893.68 0.0088 0.0007

Neptune 16284-11-09 02:38 G 7668981.45 7668981.61 7668981.77 0.0088 0.0014

Neptune 16285-02-05 04:48 G 7669069.55 7669069.70 7669069.86 0.0088 0.0022

Neptune 16285-05-04 06:57 G 7669157.64 7669157.79 7669157.94 0.0088 0.0030

Neptune 16285-07-31 09:07 G 7669245.74 7669245.88 7669246.03 0.0088 0.0038

Neptune 16285-10-27 11:16 G 7669333.84 7669333.97 7669334.11 0.0088 0.0046

Venus 16285-10-29 10:19 G 7669335.80 7669335.93 7669336.06 0.3681 0.0290

Neptune 16286-01-23 13:26 G 7669421.94 7669422.06 7669422.20 0.0088 0.0054

Pluto 16286-04-07 22:33 G 7669496.42 7669496.44 7669496.47 0.0071 0.0069

Neptune 16286-04-21 15:50 G 7669510.05 7669510.16 7669510.28 0.0088 0.0062

Pluto 16286-07-04 23:02 G 7669584.40 7669584.46 7669584.54 0.0071 0.0060

Neptune 16286-07-18 18:00 G 7669598.16 7669598.25 7669598.35 0.0088 0.0070

Pluto 16286-09-30 23:45 G 7669672.41 7669672.49 7669672.59 0.0071 0.0051

Neptune 16286-10-14 20:24 G 7669686.28 7669686.35 7669686.42 0.0088 0.0078

Pluto 16286-12-28 00:43 G 7669760.42 7669760.53 7669760.64 0.0071 0.0041

Neptune 16287-01-10 22:33 G 7669774.42 7669774.44 7669774.47 0.0088 0.0086

Pluto 16287-03-26 01:12 G 7669848.44 7669848.55 7669848.67 0.0071 0.0032

Jupiter 16287-04-07 13:55 G 7669860.93 7669861.08 7669861.24 0.0490 0.0021

Mars 16287-06-06 17:02 G 7669921.12 7669921.21 7669921.30 0.1952 0.1316

Pluto 16287-06-22 01:55 G 7669936.46 7669936.58 7669936.71 0.0071 0.0023

Pluto 16287-09-18 02:38 G 7670024.48 7670024.61 7670024.74 0.0071 0.0013

Pluto 16287-12-15 03:21 G 7670112.51 7670112.64 7670112.77 0.0071 0.0004

Pluto 16288-03-12 04:04 G 7670200.54 7670200.67 7670200.80 0.0071 0.0006

Pluto 16288-06-08 04:33 G 7670288.57 7670288.69 7670288.83 0.0072 0.0016

Pluto 16288-09-04 05:31 G 7670376.60 7670376.73 7670376.85 0.0072 0.0025

Pluto 16288-12-01 06:00 G 7670464.64 7670464.75 7670464.87 0.0072 0.0035

Pluto 16289-02-27 06:43 G 7670552.68 7670552.78 7670552.89 0.0072 0.0045

Pluto 16289-05-26 07:12 G 7670640.73 7670640.80 7670640.90 0.0072 0.0055

Pluto 16289-08-22 08:24 G 7670728.79 7670728.85 7670728.90 0.0072 0.0065

Venus 16289-10-31 22:19 G 7670799.34 7670799.43 7670799.52 0.3690 0.2111

Moon	16290-04-23 01:12 G	7670972.43	7670972.55	7670972.67	0.2650	0.0870
Earth	16290-04-23 02:09 G	7670972.47	7670972.59	7670972.71	0.2648	0.0786 *
Venus	16291-05-15 09:50 G	7671359.79	7671359.91	7671360.02	0.3681	0.1731
Mars	16292-02-04 04:19 G	7671624.55	7671624.68	7671624.82	0.1586	0.0652
Moon	16292-10-21 08:52 G	7671884.74	7671884.87	7671884.99	0.2689	0.0508
Earth	16292-10-21 09:21 G	7671884.76	7671884.89	7671885.02	0.2683	0.0479 *
Jupiter	16293-06-09 01:40 G	7672115.42	7672115.57	7672115.71	0.0538	0.0122
Venus	16295-05-17 16:33 G	7672823.15	7672823.19	7672823.23	0.3690	0.3428
Mars	16296-10-26 22:19 G	7673351.30	7673351.43	7673351.55	0.1951	0.0219
Saturn	16297-11-09 04:33 G	7673729.64	7673729.69	7673729.75	0.0281	0.0259
Saturn	16298-02-05 19:40 G	7673818.20	7673818.32	7673818.45	0.0281	0.0152
Uranus	16298-04-04 07:12 G	7673875.78	7673875.80	7673875.83	0.0133	0.0131
Saturn	16298-05-05 11:16 G	7673906.82	7673906.97	7673907.13	0.0281	0.0042
Uranus	16298-07-01 11:16 G	7673963.90	7673963.97	7673964.06	0.0133	0.0112
Saturn	16298-08-02 03:07 G	7673995.48	7673995.63	7673995.79	0.0281	0.0071
Uranus	16298-09-27 15:21 G	7674052.04	7674052.14	7674052.26	0.0133	0.0094
Saturn	16298-10-29 19:26 G	7674084.20	7674084.31	7674084.43	0.0281	0.0186
Uranus	16298-12-24 19:40 G	7674140.20	7674140.32	7674140.45	0.0133	0.0075
Jupiter	16299-01-24 16:19 G	7674171.04	7674171.18	7674171.33	0.0491	0.0160
Uranus	16299-03-22 23:45 G	7674228.36	7674228.49	7674228.63	0.0133	0.0057
Jupiter	16299-04-24 06:00 G	7674260.67	7674260.75	7674260.83	0.0489	0.0416
Uranus	16299-06-19 03:50 G	7674316.52	7674316.66	7674316.81	0.0133	0.0039
Uranus	16299-09-15 07:55 G	7674404.68	7674404.83	7674404.98	0.0133	0.0021
Uranus	16299-12-12 12:00 G	7674492.85	7674493.00	7674493.15	0.0133	0.0004
Uranus	16300-03-10 15:50 G	7674581.01	7674581.16	7674581.31	0.0133	0.0015
Uranus	16300-06-06 19:55 G	7674669.18	7674669.33	7674669.47	0.0133	0.0033
Uranus	16300-09-02 23:45 G	7674757.35	7674757.49	7674757.63	0.0133	0.0050
Uranus	16300-11-30 03:21 G	7674845.53	7674845.64	7674845.78	0.0133	0.0069
Uranus	16301-02-26 07:26 G	7674933.70	7674933.81	7674933.93	0.0133	0.0085
Uranus	16301-05-25 11:16 G	7675021.88	7675021.97	7675022.07	0.0133	0.0103

Mars 16301-06-27 11:16 G 7675054.89 7675054.97 7675055.05 0.1587 0.1303

Uranus 16301-08-21 15:07 G 7675110.07 7675110.13 7675110.20 0.0133 0.0120

Moon 16303-04-26 22:48 G 7675723.33 7675723.45 7675723.56 0.2654 0.0818

Earth 16303-04-26 23:16 G 7675723.35 7675723.47 7675723.58 0.2649 0.0945 *

Mars 16303-06-03 09:21 G 7675760.84 7675760.89 7675760.94 0.1585 0.1488

Jupiter 16305-03-29 00:57 G 7676425.43 7676425.54 7676425.67 0.0537 0.0328

Jupiter 16305-06-26 19:55 G 7676515.23 7676515.33 7676515.42 0.0539 0.0410

Moon 16305-10-25 08:38 G 7676635.75 7676635.86 7676635.97 0.2689 0.1482

Earth 16305-10-25 08:38 G 7676635.75 7676635.86 7676635.96 0.2682 0.1548 *

Mars 16306-03-20 02:52 G 7676781.51 7676781.62 7676781.74 0.1951 0.0918

Jupiter 16310-11-13 19:12 G 7678481.18 7678481.30 7678481.42 0.0492 0.0294

Jupiter 16311-02-11 08:24 G 7678570.73 7678570.85 7678570.98 0.0489 0.0277

Saturn 16312-06-18 04:48 G 7679063.59 7679063.70 7679063.80 0.0278 0.0206

Saturn 16312-09-14 20:24 G 7679152.20 7679152.35 7679152.49 0.0278 0.0095

Mars 16312-10-23 15:36 G 7679191.03 7679191.15 7679191.28 0.1585 0.0797

Saturn 16312-12-12 11:31 G 7679240.83 7679240.98 7679241.13 0.0278 0.0013

Saturn 16313-03-11 02:24 G 7679329.46 7679329.60 7679329.74 0.0277 0.0118

Saturn 16313-06-07 16:48 G 7679418.12 7679418.20 7679418.30 0.0277 0.0220

Earth 16316-04-28 19:55 G 7680474.31 7680474.33 7680474.35 0.2650 0.2613

Jupiter 16317-01-15 01:40 G 7680735.53 7680735.57 7680735.61 0.0536 0.0515

Jupiter 16317-04-14 21:07 G 7680825.24 7680825.38 7680825.51 0.0539 0.0231

Mars 16322-03-15 22:04 G 7682621.27 7682621.42 7682621.57 0.1586 0.0112

Jupiter 16322-09-01 21:36 G 7682791.34 7682791.40 7682791.48 0.0492 0.0430

Jupiter 16322-11-30 10:48 G 7682880.80 7682880.95 7682881.09 0.0490 0.0135

Moon 16323-04-22 09:21 G 7683023.83 7683023.89 7683023.95 0.2646 0.2325

Earth 16323-04-22 10:19 G 7683023.86 7683023.93 7683024.00 0.2648 0.2184 *

Venus 16324-04-09 17:31 G 7683377.17 7683377.23 7683377.28 0.3688 0.3191

Moon 16325-10-20 15:07 G 7683936.06 7683936.13 7683936.20 0.2685 0.2171

Earth 16325-10-20 16:04 G 7683936.09 7683936.17 7683936.25 0.2684 0.2038 *

Mars 16326-12-06 17:16 G 7684348.13 7684348.22 7684348.30 0.1952 0.1418

Saturn 16327-06-26 20:09 G 7684550.23 7684550.34 7684550.46 0.0281 0.0188

Saturn 16327-09-23 11:31 G 7684638.84 7684638.98 7684639.13 0.0281 0.0080

Saturn 16327-12-21 03:21 G 7684727.49 7684727.64 7684727.80 0.0281 0.0033

Saturn 16328-03-18 19:40 G 7684816.18 7684816.32 7684816.45 0.0281 0.0147

Saturn 16328-06-15 12:00 G 7684904.95 7684905.00 7684905.06 0.0282 0.0264

Jupiter 16329-01-31 22:33 G 7685135.29 7685135.44 7685135.59 0.0539 0.0057

Venus 16329-10-24 12:43 G 7685400.92 7685401.03 7685401.13 0.3689 0.1685

Venus 16331-05-07 12:28 G 7685960.97 7685961.02 7685961.06 0.3682 0.3444

Mars 16331-08-06 04:48 G 7686051.56 7686051.70 7686051.83 0.1586 0.0558

Jupiter 16334-09-18 13:12 G 7687190.89 7687191.05 7687191.20 0.0490 0.0015

Venus 16335-05-10 07:26 G 7687424.70 7687424.81 7687424.93 0.3689 0.0232

Moon 16336-04-24 06:28 G 7687774.65 7687774.77 7687774.89 0.2650 0.0585

Earth 16336-04-24 07:26 G 7687774.69 7687774.81 7687774.94 0.2649 0.0422 *

Mars 16336-04-27 22:19 G 7687778.31 7687778.43 7687778.55 0.1952 0.0321

Venus 16336-11-20 10:48 G 7687984.84 7687984.95 7687985.07 0.3682 0.1612

Moon 16338-10-23 14:24 G 7688686.97 7688687.10 7688687.23 0.2689 0.0204

Earth 16338-10-23 14:52 G 7688686.99 7688687.12 7688687.25 0.2683 0.0078 *

Uranus 16340-01-06 14:09 G 7689127.06 7689127.09 7689127.15 0.0145 0.0139

Uranus 16340-04-03 20:09 G 7689215.25 7689215.34 7689215.45 0.0145 0.0114

Uranus 16340-07-01 01:55 G 7689303.46 7689303.58 7689303.72 0.0145 0.0089

Uranus 16340-09-27 07:55 G 7689391.69 7689391.83 7689391.98 0.0145 0.0064

Jupiter 16340-11-20 00:00 G 7689445.35 7689445.50 7689445.64 0.0538 0.0118

Venus 16340-11-23 02:09 G 7689448.48 7689448.59 7689448.70 0.3690 0.1181

Uranus 16340-12-24 13:55 G 7689479.92 7689480.08 7689480.24 0.0145 0.0039

Mars 16340-12-26 11:31 G 7689481.89 7689481.98 7689482.07 0.1587 0.1212

Uranus 16341-03-22 19:55 G 7689568.17 7689568.33 7689568.49 0.0145 0.0014

Uranus 16341-06-19 01:55 G 7689656.42 7689656.58 7689656.75 0.0145 0.0012

Uranus 16341-09-15 07:55 G 7689744.67 7689744.83 7689744.99 0.0145 0.0038

Saturn 16341-11-05 03:50 G 7689795.60 7689795.66 7689795.74 0.0278 0.0250

Uranus 16341-12-12 13:55 G 7689832.94 7689833.08 7689833.24 0.0145 0.0064

Saturn	16342-02-01 19:40 G	7689884.19	7689884.32	7689884.46	0.0278	0.0138
Uranus	16342-03-10 20:09 G	7689921.22	7689921.34	7689921.48	0.0145	0.0090
Saturn	16342-05-01 11:16 G	7689972.81	7689972.97	7689973.12	0.0278	0.0030
Venus	16342-06-06 09:50 G	7690008.78	7690008.91	7690009.04	0.3681	0.0342
Uranus	16342-06-07 02:24 G	7690009.51	7690009.60	7690009.71	0.0145	0.0116
Saturn	16342-07-29 02:09 G	7690061.45	7690061.59	7690061.74	0.0277	0.0077
Uranus	16342-09-03 08:52 G	7690097.84	7690097.87	7690097.90	0.0145	0.0143
Saturn	16342-10-25 16:48 G	7690150.09	7690150.20	7690150.32	0.0277	0.0181
Mars	16345-09-18 03:21 G	7691208.53	7691208.64	7691208.76	0.1951	0.0787
Venus	16346-06-08 20:24 G	7691472.27	7691472.35	7691472.43	0.3690	0.2532
Jupiter	16346-07-07 14:52 G	7691500.98	7691501.12	7691501.27	0.0491	0.0153
Jupiter	16346-10-05 04:33 G	7691590.62	7691590.69	7691590.77	0.0489	0.0422
Venus	16347-12-21 09:21 G	7692032.79	7692032.89	7692032.99	0.3680	0.2367
Moon	16349-04-27 04:04 G	7692525.56	7692525.67	7692525.78	0.2656	0.1305
Earth	16349-04-27 04:19 G	7692525.58	7692525.68	7692525.79	0.2649	0.1297 *
Earth	16351-10-26 14:09 G	7693438.00	7693438.09	7693438.18	0.2682	0.1965
Moon	16351-10-26 14:24 G	7693438.02	7693438.10	7693438.18	0.2689	0.2078 *
Mars	16352-04-23 16:04 G	7693618.05	7693618.17	7693618.29	0.1585	0.0896
Jupiter	16352-09-08 00:43 G	7693755.41	7693755.53	7693755.65	0.0537	0.0304
Jupiter	16352-12-06 19:26 G	7693845.23	7693845.31	7693845.40	0.0540	0.0433
Saturn	16356-11-12 21:21 G	7695282.30	7695282.39	7695282.48	0.0281	0.0220
Saturn	16357-02-09 12:43 G	7695370.89	7695371.03	7695371.17	0.0281	0.0112
Saturn	16357-05-09 04:19 G	7695459.53	7695459.68	7695459.84	0.0281	0.0005
Saturn	16357-08-05 20:24 G	7695548.21	7695548.35	7695548.50	0.0281	0.0113
Saturn	16357-11-02 12:43 G	7695636.95	7695637.03	7695637.13	0.0281	0.0230
Jupiter	16358-04-25 17:31 G	7695811.11	7695811.23	7695811.35	0.0492	0.0291
Jupiter	16358-07-24 06:43 G	7695900.66	7695900.78	7695900.91	0.0489	0.0279
Mars	16361-09-13 22:33 G	7697048.29	7697048.44	7697048.59	0.1586	0.0216
Jupiter	16364-06-27 00:00 G	7698065.46	7698065.50	7698065.55	0.0536	0.0511
Jupiter	16364-09-24 19:26 G	7698155.18	7698155.31	7698155.44	0.0539	0.0234

Neptune 16364-12-19 21:07 G 7698241.35 7698241.38 7698241.44 0.0089 0.0085

Neptune 16365-03-17 23:31 G 7698329.41 7698329.48 7698329.57 0.0089 0.0077

Neptune 16365-06-14 01:40 G 7698417.48 7698417.57 7698417.68 0.0089 0.0068

Neptune 16365-09-10 03:50 G 7698505.55 7698505.66 7698505.79 0.0089 0.0060

Neptune 16365-12-07 06:00 G 7698593.63 7698593.75 7698593.89 0.0089 0.0052

Neptune 16366-03-05 08:24 G 7698681.72 7698681.85 7698681.99 0.0089 0.0044

Neptune 16366-06-01 10:33 G 7698769.80 7698769.94 7698770.09 0.0089 0.0036

Mars 16366-06-06 17:16 G 7698775.15 7698775.22 7698775.30 0.1952 0.1533

Neptune 16366-08-28 12:43 G 7698857.88 7698858.03 7698858.18 0.0089 0.0028

Neptune 16366-11-24 14:52 G 7698945.97 7698946.12 7698946.27 0.0089 0.0019

Neptune 16367-02-20 17:02 G 7699034.06 7699034.21 7699034.37 0.0089 0.0011

Neptune 16367-05-19 19:12 G 7699122.14 7699122.30 7699122.46 0.0089 0.0003

Neptune 16367-08-15 21:21 G 7699210.23 7699210.39 7699210.54 0.0089 0.0005

Neptune 16367-11-11 23:16 G 7699298.32 7699298.47 7699298.63 0.0089 0.0013

Neptune 16368-02-08 01:26 G 7699386.41 7699386.56 7699386.71 0.0089 0.0021

Neptune 16368-05-06 03:21 G 7699474.50 7699474.64 7699474.80 0.0089 0.0029

Neptune 16368-08-02 05:31 G 7699562.59 7699562.73 7699562.88 0.0089 0.0036

Neptune 16368-10-29 07:26 G 7699650.69 7699650.81 7699650.95 0.0089 0.0045

Neptune 16369-01-25 09:21 G 7699738.78 7699738.89 7699739.03 0.0089 0.0053

Moon 16369-04-22 14:38 G 7699826.02 7699826.11 7699826.20 0.2647 0.1896

Earth 16369-04-22 15:36 G 7699826.06 7699826.15 7699826.24 0.2648 0.1810 *

Neptune 16369-04-23 11:45 G 7699826.88 7699826.99 7699827.10 0.0089 0.0060

Neptune 16369-07-20 13:40 G 7699914.98 7699915.07 7699915.17 0.0089 0.0067

Neptune 16369-10-16 15:21 G 7700003.08 7700003.14 7700003.24 0.0089 0.0076

Neptune 16370-01-12 17:45 G 7700091.19 7700091.24 7700091.30 0.0089 0.0083

Jupiter 16370-02-11 20:24 G 7700121.27 7700121.35 7700121.42 0.0492 0.0425

Jupiter 16370-05-12 09:21 G 7700210.74 7700210.89 7700211.03 0.0490 0.0141

Mars 16371-02-04 05:02 G 7700478.57 7700478.71 7700478.85 0.1586 0.0459

Saturn 16371-03-25 06:43 G 7700527.75 7700527.78 7700527.81 0.0278 0.0271

Saturn 16371-06-21 22:33 G 7700616.31 7700616.44 7700616.57 0.0278 0.0159

Saturn 16371-09-18 14:09 G 7700704.93 7700705.09 7700705.24 0.0278 0.0050

Moon 16371-10-21 20:38 G 7700738.26 7700738.36 7700738.46 0.2687 0.1735

Earth 16371-10-21 21:36 G 7700738.30 7700738.40 7700738.50 0.2684 0.1647 *

Pluto 16371-11-27 15:21 G 7700775.08 7700775.14 7700775.21 0.0074 0.0069

Saturn 16371-12-16 05:02 G 7700793.57 7700793.71 7700793.86 0.0278 0.0058

Pluto 16372-02-23 17:31 G 7700863.11 7700863.23 7700863.37 0.0073 0.0054

Saturn 16372-03-13 19:55 G 7700882.21 7700882.33 7700882.45 0.0277 0.0162

Pluto 16372-05-21 20:09 G 7700951.18 7700951.34 7700951.51 0.0073 0.0039

Saturn 16372-06-10 10:19 G 7700970.89 7700970.93 7700970.97 0.0277 0.0263

Pluto 16372-08-17 22:33 G 7701039.26 7701039.44 7701039.63 0.0073 0.0024

Pluto 16372-11-14 00:57 G 7701127.35 7701127.54 7701127.74 0.0073 0.0009

Pluto 16373-02-10 03:21 G 7701215.45 7701215.64 7701215.83 0.0073 0.0006

Pluto 16373-05-09 05:31 G 7701303.55 7701303.73 7701303.92 0.0073 0.0021

Pluto 16373-08-05 07:40 G 7701391.67 7701391.82 7701392.01 0.0073 0.0036

Pluto 16373-11-01 10:19 G 7701479.79 7701479.93 7701480.07 0.0073 0.0050

Pluto 16374-01-28 12:14 G 7701567.94 7701568.01 7701568.12 0.0072 0.0065

Mars 16375-10-27 22:48 G 7702205.32 7702205.45 7702205.57 0.1952 0.0452

Jupiter 16376-07-13 20:24 G 7702465.20 7702465.35 7702465.50 0.0538 0.0052

Mars 16380-06-26 11:45 G 7703908.89 7703908.99 7703909.10 0.1587 0.1119

Venus 16380-11-14 15:50 G 7704050.09 7704050.16 7704050.24 0.3688 0.2718

Jupiter 16382-02-28 11:45 G 7704520.83 7704520.99 7704521.14 0.0490 0.0014

Moon 16382-04-25 12:00 G 7704576.87 7704577.00 7704577.12 0.2651 0.0159

Earth 16382-04-25 12:43 G 7704576.91 7704577.03 7704577.16 0.2649 0.0089 *

Uranus 16382-04-25 14:38 G 7704577.07 7704577.11 7704577.17 0.0133 0.0124 *

Uranus 16382-07-22 18:57 G 7704665.20 7704665.29 7704665.39 0.0133 0.0105

Uranus 16382-10-18 23:02 G 7704753.35 7704753.46 7704753.58 0.0133 0.0087

Uranus 16383-01-15 03:07 G 7704841.51 7704841.63 7704841.77 0.0133 0.0069

Uranus 16383-04-13 07:26 G 7704929.67 7704929.81 7704929.95 0.0133 0.0051

Uranus 16383-07-10 11:31 G 7705017.83 7705017.98 7705018.12 0.0133 0.0032

Uranus 16383-10-06 15:21 G 7705106.00 7705106.14 7705106.30 0.0133 0.0015

Uranus 16384-01-02 19:26 G 7705194.16 7705194.31 7705194.46 0.0133 0.0004

Uranus 16384-03-30 23:31 G 7705282.33 7705282.48 7705282.63 0.0133 0.0021

Uranus 16384-06-27 03:21 G 7705370.50 7705370.64 7705370.79 0.0133 0.0039

Uranus 16384-09-23 07:12 G 7705458.67 7705458.80 7705458.94 0.0133 0.0057

Moon 16384-10-23 19:55 G 7705489.20 7705489.33 7705489.46 0.2689 0.0294

Earth 16384-10-23 20:24 G 7705489.22 7705489.35 7705489.48 0.2683 0.0336 *

Uranus 16384-12-20 11:02 G 7705546.85 7705546.96 7705547.09 0.0133 0.0075

Uranus 16385-03-18 15:07 G 7705635.03 7705635.13 7705635.24 0.0133 0.0092

Mars 16385-03-19 03:21 G 7705635.52 7705635.64 7705635.76 0.1951 0.0690

Uranus 16385-06-14 18:43 G 7705723.21 7705723.28 7705723.37 0.0133 0.0109

Uranus 16385-09-10 22:33 G 7705811.41 7705811.44 7705811.50 0.0133 0.0127

Saturn 16386-04-01 21:50 G 7706014.36 7706014.41 7706014.48 0.0281 0.0255

Venus 16386-05-31 11:02 G 7706073.85 7706073.96 7706074.07 0.3689 0.1222

Saturn 16386-06-29 13:12 G 7706102.92 7706103.05 7706103.18 0.0281 0.0148

Saturn 16386-09-26 04:48 G 7706191.55 7706191.70 7706191.85 0.0281 0.0038

Saturn 16386-12-23 20:38 G 7706280.21 7706280.36 7706280.51 0.0281 0.0074

Saturn 16387-03-22 12:57 G 7706368.92 7706369.04 7706369.15 0.0281 0.0189

Venus 16387-12-12 11:45 G 7706633.91 7706633.99 7706634.06 0.3682 0.2885

Jupiter 16388-05-01 21:36 G 7706775.26 7706775.40 7706775.55 0.0538 0.0126

Mars 16391-10-23 16:19 G 7708045.07 7708045.18 7708045.30 0.1585 0.0995

Venus 16391-12-15 05:45 G 7708097.63 7708097.74 7708097.86 0.3689 0.0243

Venus 16393-06-27 10:19 G 7708657.81 7708657.93 7708658.05 0.3682 0.1026

Jupiter 16393-12-17 14:09 G 7708830.94 7708831.09 7708831.23 0.0491 0.0137

Jupiter 16394-03-17 03:36 G 7708920.59 7708920.65 7708920.72 0.0489 0.0438

Mars 16394-08-09 08:09 G 7709065.80 7709065.84 7709065.88 0.1949 0.1825

Moon 16395-04-28 09:21 G 7709327.79 7709327.89 7709327.99 0.2656 0.1582

Earth 16395-04-28 09:36 G 7709327.81 7709327.90 7709328.00 0.2649 0.1655 *

Venus 16397-06-30 00:28 G 7710121.41 7710121.52 7710121.62 0.3690 0.1614

Earth 16397-10-26 19:40 G 7710240.26 7710240.32 7710240.38 0.2682 0.2383

Moon 16397-10-26 20:09 G 7710240.28 7710240.34 7710240.40 0.2689 0.2405 *

Venus 16399-01-11 09:36 G 7710681.77 7710681.90 7710682.02 0.3681 0.0950

Jupiter 16400-02-18 23:02 G 7711085.34 7711085.46 7711085.59 0.0537 0.0300

Jupiter 16400-05-18 18:00 G 7711175.16 7711175.25 7711175.33 0.0540 0.0438

Saturn 16400-11-07 21:36 G 7711348.30 7711348.40 7711348.51 0.0278 0.0204

Saturn 16401-02-04 13:26 G 7711436.91 7711437.06 7711437.21 0.0278 0.0093

Mars 16401-03-14 22:48 G 7711475.31 7711475.45 7711475.60 0.1586 0.0312

Saturn 16401-05-04 04:48 G 7711525.54 7711525.70 7711525.85 0.0277 0.0017

Saturn 16401-07-31 19:26 G 7711614.18 7711614.31 7711614.45 0.0277 0.0121

Saturn 16401-10-28 10:04 G 7711702.84 7711702.92 7711703.01 0.0277 0.0222

Venus 16403-01-13 18:43 G 7712145.21 7712145.28 7712145.34 0.3690 0.2944

Venus 16404-07-27 09:07 G 7712705.80 7712705.88 7712705.95 0.3680 0.3005

Jupiter 16405-10-05 16:04 G 7713141.05 7713141.17 7713141.30 0.0491 0.0283

Mars 16405-12-05 17:45 G 7713202.17 7713202.24 7713202.30 0.1952 0.1650

Jupiter 16406-01-03 05:31 G 7713230.60 7713230.73 7713230.85 0.0489 0.0288

Mars 16410-08-05 05:31 G 7714905.58 7714905.73 7714905.87 0.1586 0.0361

Jupiter 16411-12-07 23:45 G 7715395.43 7715395.49 7715395.55 0.0536 0.0486

Jupiter 16412-03-06 19:12 G 7715485.17 7715485.30 7715485.43 0.0539 0.0260

Moon 16415-04-23 19:55 G 7716628.23 7716628.33 7716628.43 0.2647 0.1629

Earth 16415-04-23 20:52 G 7716628.27 7716628.37 7716628.48 0.2648 0.1437 *

Mars 16415-04-27 22:48 G 7716632.33 7716632.45 7716632.57 0.1952 0.0557

Saturn 16415-11-16 13:40 G 7716834.96 7716835.07 7716835.19 0.0281 0.0184

Saturn 16416-02-13 05:16 G 7716923.57 7716923.72 7716923.87 0.0281 0.0075

Saturn 16416-05-11 20:52 G 7717012.22 7717012.37 7717012.53 0.0281 0.0038

Saturn 16416-08-08 13:12 G 7717100.92 7717101.05 7717101.18 0.0281 0.0152

Saturn 16416-11-05 05:45 G 7717189.70 7717189.74 7717189.78 0.0281 0.0269

Jupiter 16417-07-24 18:43 G 7717451.21 7717451.28 7717451.36 0.0492 0.0420

Moon 16417-10-22 02:09 G 7717540.48 7717540.59 7717540.70 0.2688 0.1425

Earth 16417-10-22 03:07 G 7717540.51 7717540.63 7717540.74 0.2683 0.1251 *

Jupiter 16417-10-22 07:40 G 7717540.68 7717540.82 7717540.97 0.0490 0.0147 *

Mars 16419-12-26 12:14 G 7718335.90 7718336.01 7718336.12 0.1587 0.1018

Jupiter 16423-12-24 18:57 G 7719795.15 7719795.29 7719795.44 0.0538 0.0060

Uranus 16424-01-26 21:50 G 7719828.34 7719828.41 7719828.47 0.0145 0.0132

Uranus 16424-04-24 03:21 G 7719916.54 7719916.64 7719916.76 0.0145 0.0108

Uranus 16424-07-21 09:21 G 7720004.76 7720004.89 7720005.03 0.0145 0.0083

Mars 16424-09-17 03:50 G 7720062.54 7720062.66 7720062.78 0.1951 0.0566

Uranus 16424-10-17 15:21 G 7720092.99 7720093.14 7720093.29 0.0145 0.0058

Uranus 16425-01-13 21:07 G 7720181.23 7720181.38 7720181.54 0.0145 0.0033

Uranus 16425-04-12 03:07 G 7720269.47 7720269.63 7720269.80 0.0145 0.0008

Uranus 16425-07-09 09:07 G 7720357.72 7720357.88 7720358.05 0.0145 0.0019

Uranus 16425-10-05 15:21 G 7720445.98 7720446.14 7720446.30 0.0145 0.0044

Uranus 16426-01-01 21:21 G 7720534.25 7720534.39 7720534.54 0.0145 0.0070

Uranus 16426-03-31 03:36 G 7720622.53 7720622.65 7720622.78 0.0145 0.0096

Uranus 16426-06-27 09:36 G 7720710.82 7720710.90 7720711.00 0.0145 0.0123

Moon 16428-04-25 17:16 G 7721379.10 7721379.22 7721379.35 0.2653 0.0247

Earth 16428-04-25 18:00 G 7721379.13 7721379.25 7721379.38 0.2649 0.0317 *

Jupiter 16429-08-10 10:19 G 7721850.78 7721850.93 7721851.08 0.0491 0.0009

Saturn 16430-03-28 00:14 G 7722080.42 7722080.51 7722080.60 0.0278 0.0227

Saturn 16430-06-24 15:50 G 7722169.03 7722169.16 7722169.31 0.0278 0.0116

Saturn 16430-09-21 07:26 G 7722257.65 7722257.81 7722257.96 0.0278 0.0009

Moon 16430-10-25 01:40 G 7722291.44 7722291.57 7722291.70 0.2689 0.0713

Earth 16430-10-25 01:55 G 7722291.45 7722291.58 7722291.71 0.2683 0.0739 *

Saturn 16430-12-18 22:19 G 7722346.29 7722346.43 7722346.57 0.0278 0.0099

Saturn 16431-03-17 12:57 G 7722434.94 7722435.04 7722435.14 0.0278 0.0202

Mars 16431-04-23 16:48 G 7722472.10 7722472.20 7722472.31 0.1585 0.1100

Mars 16434-02-07 08:24 G 7723492.79 7723492.85 7723492.90 0.1949 0.1715

Jupiter 16435-10-12 19:55 G 7724105.18 7724105.33 7724105.47 0.0537 0.0127

Venus 16437-06-21 14:24 G 7724723.01 7724723.10 7724723.19 0.3689 0.2246

Mars 16440-09-12 23:02 G 7725902.32 7725902.46 7725902.61 0.1585 0.0412

Moon 16441-04-28 14:38 G 7726130.04 7726130.11 7726130.19 0.2656 0.2015

Earth 16441-04-28 14:52 G 7726130.04 7726130.12 7726130.20 0.2649 0.2013 *

Jupiter 16441-05-29 12:43 G 7726160.89 7726161.03 7726161.18 0.0491 0.0130

Jupiter 16441-08-27 02:24 G 7726250.54 7726250.60 7726250.66 0.0489 0.0446

Venus 16443-01-05 09:21 G 7726746.78 7726746.89 7726747.00 0.3689 0.0770

Venus 16444-07-18 11:02 G 7727306.86 7727306.96 7727307.06 0.3682 0.2330

Saturn 16445-04-04 14:38 G 7727567.02 7727567.11 7727567.21 0.0280 0.0217

Mars 16445-06-05 17:45 G 7727629.19 7727629.24 7727629.29 0.1952 0.1756

Saturn 16445-07-02 05:45 G 7727655.61 7727655.74 7727655.89 0.0281 0.0110

Saturn 16445-09-28 21:36 G 7727744.24 7727744.40 7727744.55 0.0281 0.0005

Saturn 16445-12-26 13:26 G 7727832.92 7727833.06 7727833.21 0.0281 0.0114

Saturn 16446-03-25 05:45 G 7727921.66 7727921.74 7727921.84 0.0281 0.0230

Neptune 16446-06-18 21:50 G 7728007.37 7728007.41 7728007.47 0.0088 0.0083

Neptune 16446-09-14 23:45 G 7728095.43 7728095.49 7728095.58 0.0088 0.0076

Neptune 16446-12-12 01:55 G 7728183.49 7728183.58 7728183.69 0.0088 0.0068

Neptune 16447-03-10 03:50 G 7728271.56 7728271.66 7728271.79 0.0088 0.0061

Neptune 16447-06-06 06:00 G 7728359.64 7728359.75 7728359.89 0.0088 0.0053

Jupiter 16447-07-31 20:52 G 7728415.25 7728415.37 7728415.49 0.0537 0.0306

Neptune 16447-09-02 08:24 G 7728447.72 7728447.85 7728447.98 0.0088 0.0045

Jupiter 16447-10-29 15:50 G 7728505.07 7728505.16 7728505.24 0.0540 0.0433

Neptune 16447-11-29 10:19 G 7728535.79 7728535.93 7728536.08 0.0088 0.0038

Neptune 16448-02-25 12:28 G 7728623.88 7728624.02 7728624.17 0.0088 0.0030

Neptune 16448-05-23 14:38 G 7728711.96 7728712.11 7728712.27 0.0088 0.0022

Venus 16448-07-21 04:04 G 7728770.56 7728770.67 7728770.78 0.3690 0.0664

Neptune 16448-08-19 16:48 G 7728800.04 7728800.20 7728800.36 0.0088 0.0015

Neptune 16448-11-15 18:57 G 7728888.13 7728888.29 7728888.45 0.0088 0.0007

Neptune 16449-02-11 21:07 G 7728976.22 7728976.38 7728976.54 0.0088 0.0001

Neptune 16449-05-10 23:16 G 7729064.31 7729064.47 7729064.63 0.0088 0.0009

Neptune 16449-08-07 01:12 G 7729152.40 7729152.55 7729152.72 0.0088 0.0017

Neptune 16449-11-03 03:36 G 7729240.50 7729240.65 7729240.80 0.0088 0.0024

Neptune 16450-01-30 05:45 G 7729328.59 7729328.74 7729328.89 0.0088 0.0032

Venus 16450-02-01 09:50 G 7729330.78 7729330.91 7729331.04 0.3681 0.0441

Mars 16450-02-03 05:45 G 7729332.59 7729332.74 7729332.89 0.1586 0.0265

Neptune 16450-04-28 07:55 G 7729416.69 7729416.83 7729416.98 0.0088 0.0040

Neptune 16450-07-25 10:04 G 7729504.79 7729504.92 7729505.06 0.0088 0.0048

Neptune 16450-10-21 12:14 G 7729592.89 7729593.01 7729593.14 0.0088 0.0056

Neptune 16451-01-17 14:24 G 7729681.00 7729681.10 7729681.22 0.0088 0.0064

Neptune 16451-04-15 16:48 G 7729769.11 7729769.20 7729769.29 0.0088 0.0072

Neptune 16451-07-12 18:57 G 7729857.23 7729857.29 7729857.36 0.0088 0.0080

Jupiter 16453-03-17 15:21 G 7730471.02 7730471.14 7730471.27 0.0491 0.0266

Jupiter 16453-06-15 04:48 G 7730560.58 7730560.70 7730560.82 0.0489 0.0304

Venus 16454-02-03 22:33 G 7730794.34 7730794.44 7730794.53 0.3690 0.2026

Mars 16454-10-26 23:02 G 7731059.34 7731059.46 7731059.58 0.1952 0.0667

Venus 16455-08-18 08:52 G 7731354.76 7731354.87 7731354.99 0.3681 0.1558

Jupiter 16459-05-19 22:04 G 7732725.36 7732725.42 7732725.49 0.0536 0.0483

Mars 16459-06-26 12:28 G 7732762.91 7732763.02 7732763.14 0.1587 0.0925

Saturn 16459-08-14 23:02 G 7732812.44 7732812.46 7732812.50 0.0278 0.0273

Jupiter 16459-08-17 17:31 G 7732815.11 7732815.23 7732815.36 0.0539 0.0265

Venus 16459-08-20 16:48 G 7732818.16 7732818.20 7732818.24 0.3691 0.3356

Saturn 16459-11-11 15:07 G 7732901.01 7732901.13 7732901.26 0.0278 0.0161

Saturn 16460-02-08 06:43 G 7732989.63 7732989.78 7732989.93 0.0278 0.0051

Saturn 16460-05-06 21:50 G 7733078.26 7733078.41 7733078.56 0.0277 0.0056

Saturn 16460-08-03 12:28 G 7733166.90 7733167.02 7733167.15 0.0277 0.0161

Saturn 16460-10-31 02:52 G 7733255.58 7733255.62 7733255.67 0.0277 0.0262

Venus 16461-03-03 08:52 G 7733378.86 7733378.87 7733378.88 0.3680 0.3663

Moon 16461-04-24 01:12 G 7733430.44 7733430.55 7733430.67 0.2648 0.1137

Earth 16461-04-24 02:09 G 7733430.48 7733430.59 7733430.71 0.2648 0.1074 *

Moon 16463-10-23 07:40 G 7734342.70 7734342.82 7734342.94 0.2688 0.0902

Earth 16463-10-23 08:24 G 7734342.73 7734342.85 7734342.98 0.2683 0.0854 *

Mars 16464-03-18 04:04 G 7734489.54 7734489.67 7734489.79 0.1951 0.0450

Jupiter 16465-01-03 17:45 G 7734781.16 7734781.24 7734781.32 0.0492 0.0409

Jupiter 16465-04-03 06:28 G 7734870.63 7734870.77 7734870.92 0.0490 0.0157

Uranus 16466-05-15 22:04 G 7735278.36 7735278.42 7735278.50 0.0133 0.0118

Uranus 16466-08-12 02:09 G 7735366.50 7735366.59 7735366.70 0.0133 0.0100

Uranus 16466-11-08 06:28 G 7735454.66 7735454.77 7735454.90 0.0133 0.0081

Uranus 16467-02-04 10:33 G 7735542.81 7735542.94 7735543.08 0.0133 0.0063

Uranus 16467-05-03 14:38 G 7735630.98 7735631.11 7735631.26 0.0133 0.0045

Uranus 16467-07-30 18:57 G 7735719.14 7735719.29 7735719.44 0.0133 0.0027

Uranus 16467-10-26 23:02 G 7735807.31 7735807.46 7735807.61 0.0133 0.0009

Uranus 16468-01-23 02:52 G 7735895.47 7735895.62 7735895.77 0.0133 0.0010

Uranus 16468-04-20 06:57 G 7735983.64 7735983.79 7735983.94 0.0133 0.0027

Uranus 16468-07-17 10:48 G 7736071.81 7736071.95 7736072.09 0.0133 0.0045

Uranus 16468-10-13 14:52 G 7736159.99 7736160.12 7736160.25 0.0133 0.0063

Mars 16468-11-15 19:26 G 7736193.30 7736193.31 7736193.33 0.1588 0.1573

Uranus 16469-01-09 18:28 G 7736248.16 7736248.27 7736248.40 0.0133 0.0081

Uranus 16469-04-07 22:33 G 7736336.34 7736336.44 7736336.54 0.0133 0.0098

Uranus 16469-07-05 02:09 G 7736424.53 7736424.59 7736424.67 0.0133 0.0115

Uranus 16469-10-01 06:00 G 7736512.75 7736512.75 7736512.78 0.0133 0.0133

Mars 16470-10-22 17:16 G 7736899.12 7736899.22 7736899.31 0.1585 0.1201

Jupiter 16471-06-05 18:43 G 7737125.14 7737125.28 7737125.43 0.0538 0.0086

Mars 16473-08-08 08:38 G 7737919.79 7737919.86 7737919.93 0.1949 0.1596

Moon 16474-04-26 22:48 G 7738181.33 7738181.45 7738181.57 0.2654 0.0550

Earth 16474-04-26 23:16 G 7738181.35 7738181.47 7738181.60 0.2649 0.0680 *

Saturn 16474-08-22 14:38 G 7738299.06 7738299.11 7738299.18 0.0281 0.0256

Saturn 16474-11-19 06:00 G 7738387.62 7738387.75 7738387.88 0.0281 0.0149

Saturn 16475-02-15 21:21 G 7738476.24 7738476.39 7738476.55 0.0281 0.0040

Saturn 16475-05-15 13:12 G 7738564.90 7738565.05 7738565.21 0.0281 0.0074

Saturn 16475-08-12 05:31 G 7738653.62 7738653.73 7738653.85 0.0281 0.0189

Moon 16476-10-25 07:26 G 7739093.69 7739093.81 7739093.93 0.2689 0.1121

Earth 16476-10-25 07:26 G 7739093.69 7739093.81 7739093.93 0.2683 0.1154 *

Jupiter 16477-01-20 08:52 G 7739180.72 7739180.87 7739181.03 0.0490 0.0021

Mars 16480-03-13 23:31 G 7740329.34 7740329.48 7740329.62 0.1585 0.0515

Jupiter 16483-03-24 18:43 G 7741435.13 7741435.28 7741435.42 0.0537 0.0116

Mars 16484-12-04 18:00 G 7742056.21 7742056.25 7742056.28 0.1952 0.1867

Moon 16487-04-29 20:09 G 7742932.29 7742932.34 7742932.39 0.2656 0.2364

Earth 16487-04-29 20:09 G 7742932.29 7742932.34 7742932.40 0.2649 0.2364 *

Venus 16488-07-12 17:31 G 7743372.18 7743372.23 7743372.28 0.3688 0.3302

Jupiter 16488-11-08 11:31 G 7743490.83 7743490.98 7743491.13 0.0491 0.0121

Jupiter 16489-02-06 01:12 G 7743580.50 7743580.55 7743580.61 0.0489 0.0456

Saturn 16489-03-30 17:31 G 7743633.11 7743633.23 7743633.35 0.0278 0.0185

Saturn 16489-06-27 09:07 G 7743721.73 7743721.88 7743722.03 0.0278 0.0074

Mars 16489-08-04 06:14 G 7743759.61 7743759.76 7743759.90 0.1586 0.0168

Saturn 16489-09-24 00:28 G 7743810.36 7743810.52 7743810.67 0.0278 0.0035

Saturn 16489-12-21 15:07 G 7743899.00 7743899.13 7743899.27 0.0278 0.0139

Saturn 16490-03-20 05:45 G 7743987.67 7743987.74 7743987.81 0.0278 0.0241

Venus 16494-01-26 12:43 G 7745395.93 7745396.03 7745396.13 0.3689 0.1790

Moon 16494-04-22 09:21 G 7745481.86 7745481.89 7745481.92 0.2644 0.2531

Earth 16494-04-22 10:19 G 7745481.89 7745481.93 7745481.97 0.2648 0.2481 *

Mars 16494-04-26 23:16 G 7745486.35 7745486.47 7745486.58 0.1952 0.0786

Jupiter 16495-01-10 19:12 G 7745745.18 7745745.30 7745745.43 0.0536 0.0303

Jupiter 16495-04-10 14:09 G 7745835.00 7745835.09 7745835.17 0.0539 0.0434

Venus 16495-08-09 12:00 G 7745955.97 7745956.00 7745956.02 0.3682 0.3582

Moon 16496-10-20 14:09 G 7746394.04 7746394.09 7746394.14 0.2686 0.2458

Earth 16496-10-20 15:21 G 7746394.08 7746394.14 7746394.19 0.2684 0.2396 *

Mars 16498-12-25 12:57 G 7747189.91 7747190.04 7747190.16 0.1587 0.0833

Venus 16499-08-12 07:40 G 7747419.71 7747419.82 7747419.94 0.3689 0.0319

Jupiter 16500-08-28 14:09 G 7747800.96 7747801.09 7747801.22 0.0492 0.0257

Jupiter 16500-11-26 03:21 G 7747890.53 7747890.64 7747890.76 0.0489 0.0314

Venus 16501-02-23 10:19 G 7747979.82 7747979.93 7747980.04 0.3682 0.1758

Mars 16503-09-18 04:04 G 7748916.55 7748916.67 7748916.79 0.1951 0.0340

Saturn 16504-04-08 06:57 G 7749119.68 7749119.79 7749119.91 0.0280 0.0181

Saturn 16504-07-05 22:19 G 7749208.29 7749208.43 7749208.58 0.0281 0.0073

Saturn 16504-10-02 14:09 G 7749296.93 7749297.09 7749297.24 0.0281 0.0039

Saturn 16504-12-30 06:14 G 7749385.63 7749385.76 7749385.89 0.0281 0.0153

Venus 16505-02-26 02:24 G 7749443.49 7749443.60 7749443.71 0.3690 0.1092

Saturn 16505-03-28 22:33 G 7749474.40 7749474.44 7749474.49 0.0281 0.0269

Venus 16506-09-09 09:21 G 7750003.76 7750003.89 7750004.01 0.3681 0.0208

Jupiter 16506-10-30 20:09 G 7750055.28 7750055.34 7750055.40 0.0536 0.0486

Jupiter 16507-01-28 15:36 G 7750145.02 7750145.15 7750145.28 0.0539 0.0260

Moon 16507-04-26 06:43 G 7750232.66 7750232.78 7750232.90 0.2649 0.0899

Earth 16507-04-26 07:26 G 7750232.69 7750232.81 7750232.94 0.2648 0.0706 *

Uranus 16508-02-17 05:02 G 7750529.64 7750529.71 7750529.80 0.0145 0.0125

Uranus 16508-05-15 10:48 G 7750617.84 7750617.95 7750618.07 0.0145 0.0101

Mars 16508-05-17 19:40 G 7750620.28 7750620.32 7750620.37 0.1588 0.1482

Uranus 16508-08-11 16:33 G 7750706.06 7750706.19 7750706.34 0.0145 0.0076

Uranus 16508-11-07 22:33 G 7750794.29 7750794.44 7750794.60 0.0145 0.0051

Uranus 16509-02-04 04:33 G 7750882.53 7750882.69 7750882.85 0.0145 0.0026

Uranus 16509-05-03 10:33 G 7750970.78 7750970.94 7750971.10 0.0145 0.0000

Uranus 16509-07-30 16:33 G 7751059.03 7751059.19 7751059.35 0.0145 0.0025

Moon 16509-10-24 13:12 G 7751144.93 7751145.05 7751145.18 0.2688 0.0621

Earth 16509-10-24 13:55 G 7751144.95 7751145.08 7751145.21 0.2683 0.0452 *

Uranus 16509-10-26 22:33 G 7751147.29 7751147.44 7751147.60 0.0145 0.0051

Uranus 16510-01-23 04:48 G 7751235.56 7751235.70 7751235.84 0.0145 0.0077

Uranus 16510-04-21 11:02 G 7751323.84 7751323.96 7751324.08 0.0145 0.0103

Mars 16510-04-23 17:31 G 7751326.15 7751326.23 7751326.32 0.1585 0.1299

Uranus 16510-07-18 17:02 G 7751412.15 7751412.21 7751412.29 0.0145 0.0130

Venus 16510-09-11 20:38 G 7751467.28 7751467.36 7751467.45 0.3690 0.2453

Venus 16512-03-25 08:38 G 7752027.76 7752027.86 7752027.96 0.3681 0.2188

Jupiter 16512-06-16 17:02 G 7752111.12 7752111.21 7752111.29 0.0492 0.0393

Jupiter 16512-09-14 05:45 G 7752200.60 7752200.74 7752200.89 0.0490 0.0173

Mars 16513-02-07 08:38 G 7752346.78 7752346.86 7752346.95 0.1950 0.1482

Saturn 16518-08-18 16:19 G 7754365.10 7754365.18 7754365.27 0.0278 0.0231

Saturn 16518-11-15 08:09 G 7754453.71 7754453.84 7754453.99 0.0278 0.0120

Jupiter 16518-11-16 17:16 G 7754455.07 7754455.22 7754455.36 0.0538 0.0090

Saturn 16519-02-11 23:45 G 7754542.33 7754542.49 7754542.64 0.0278 0.0013

Saturn 16519-05-11 14:38 G 7754630.97 7754631.11 7754631.26 0.0277 0.0095

Saturn 16519-08-08 05:16 G 7754719.62 7754719.72 7754719.83 0.0277 0.0199

Mars 16519-09-14 00:00 G 7754756.36 7754756.50 7754756.64 0.1585 0.0613

Moon 16520-04-28 04:04 G 7754983.55 7754983.67 7754983.78 0.2655 0.1014

Earth 16520-04-28 04:33 G 7754983.58 7754983.69 7754983.81 0.2649 0.1032 *

Moon 16522-10-27 13:12 G 7755895.94 7755896.05 7755896.15 0.2690 0.1644

Earth 16522-10-27 12:57 G 7755895.94 7755896.04 7755896.15 0.2682 0.1562 *

Jupiter 16524-07-03 07:55 G 7756510.67 7756510.83 7756510.98 0.0490 0.0029

Mars 16529-02-03 06:28 G 7758186.62 7758186.77 7758186.92 0.1586 0.0069

Neptune 16529-09-16 20:09 G 7758412.29 7758412.34 7758412.40 0.0089 0.0083

Neptune 16529-12-13 22:19 G 7758500.35 7758500.43 7758500.53 0.0089 0.0074

Neptune 16530-03-12 00:28 G 7758588.43 7758588.52 7758588.64 0.0089 0.0066

Neptune 16530-06-08 02:38 G 7758676.50 7758676.61 7758676.74 0.0089 0.0058

Neptune 16530-09-04 05:02 G 7758764.58 7758764.71 7758764.85 0.0089 0.0050

Jupiter 16530-09-04 18:14 G 7758765.12 7758765.26 7758765.41 0.0538 0.0091

Neptune 16530-12-01 07:12 G 7758852.67 7758852.80 7758852.94 0.0089 0.0042

Neptune 16531-02-27 09:21 G 7758940.75 7758940.89 7758941.04 0.0089 0.0034

Neptune 16531-05-26 11:31 G 7759028.84 7759028.98 7759029.14 0.0089 0.0026

Neptune 16531-08-22 13:40 G 7759116.92 7759117.07 7759117.23 0.0089 0.0018

Neptune 16531-11-18 15:50 G 7759205.01 7759205.16 7759205.32 0.0089 0.0010

Neptune 16532-02-14 18:14 G 7759293.10 7759293.26 7759293.41 0.0089 0.0003

Pluto 16532-03-05 13:55 G 7759313.05 7759313.08 7759313.14 0.0071 0.0067

Neptune 16532-05-12 20:09 G 7759381.19 7759381.34 7759381.50 0.0089 0.0007

Pluto 16532-06-01 14:52 G 7759401.04 7759401.12 7759401.20 0.0071 0.0057

Neptune 16532-08-08 22:19 G 7759469.28 7759469.43 7759469.59 0.0089 0.0015

Pluto 16532-08-28 15:21 G 7759489.05 7759489.14 7759489.24 0.0071 0.0048

Neptune 16532-11-05 00:14 G 7759557.37 7759557.51 7759557.67 0.0089 0.0023

Pluto 16532-11-24 16:04 G 7759577.06 7759577.17 7759577.29 0.0071 0.0039

Neptune 16533-02-01 02:38 G 7759645.46 7759645.61 7759645.75 0.0089 0.0031

Pluto 16533-02-20 16:48 G 7759665.08 7759665.20 7759665.32 0.0071 0.0029

Neptune 16533-04-30 04:33 G 7759733.55 7759733.69 7759733.83 0.0089 0.0039

Pluto 16533-05-19 17:31 G 7759753.10 7759753.23 7759753.36 0.0071 0.0020

Neptune 16533-07-27 06:28 G 7759821.65 7759821.77 7759821.91 0.0089 0.0047

Pluto 16533-08-15 18:14 G 7759841.13 7759841.26 7759841.39 0.0071 0.0011

Saturn 16533-08-26 06:43 G 7759851.69 7759851.78 7759851.87 0.0280 0.0222

Neptune 16533-10-23 08:38 G 7759909.74 7759909.86 7759909.99 0.0089 0.0054

Mars 16533-10-26 23:31 G 7759913.37 7759913.48 7759913.59 0.1952 0.0901

Pluto 16533-11-11 18:57 G 7759929.15 7759929.29 7759929.42 0.0071 0.0002

Saturn 16533-11-22 22:04 G 7759940.28 7759940.42 7759940.56 0.0281 0.0115

Neptune 16534-01-19 10:33 G 7759997.84 7759997.94 7759998.06 0.0089 0.0062

Pluto 16534-02-07 19:40 G 7760017.18 7760017.32 7760017.45 0.0072 0.0009

Saturn 16534-02-19 13:40 G 7760028.91 7760029.07 7760029.22 0.0281 0.0005

Neptune 16534-04-17 12:43 G 7760085.94 7760086.03 7760086.13 0.0089 0.0070

Pluto 16534-05-06 20:09 G 7760105.22 7760105.34 7760105.47 0.0072 0.0018

Saturn 16534-05-19 05:31 G 7760117.59 7760117.73 7760117.88 0.0281 0.0109

Neptune 16534-07-14 14:38 G 7760174.05 7760174.11 7760174.19 0.0089 0.0078

Pluto 16534-08-02 20:52 G 7760193.25 7760193.37 7760193.50 0.0072 0.0028

Saturn 16534-08-15 21:50 G 7760206.32 7760206.41 7760206.51 0.0281 0.0225

Neptune 16534-10-10 16:33 G 7760262.16 7760262.19 7760262.25 0.0089 0.0085

Pluto 16534-10-29 21:36 G 7760281.29 7760281.40 7760281.52 0.0072 0.0038

Pluto 16535-01-25 22:04 G 7760369.33 7760369.42 7760369.53 0.0072 0.0048

Pluto 16535-04-23 23:02 G 7760457.39 7760457.46 7760457.54 0.0072 0.0058

Pluto 16535-07-20 23:45 G 7760545.45 7760545.49 7760545.54 0.0072 0.0068

Jupiter 16536-04-21 10:19 G 7760820.78 7760820.93 7760821.08 0.0491 0.0112

Jupiter 16536-07-20 00:00 G 7760910.45 7760910.50 7760910.55 0.0489 0.0464

Mars 16538-06-26 13:12 G 7761616.92 7761617.05 7761617.18 0.1587 0.0731

Moon 16540-04-23 14:38 G 7762284.05 7762284.11 7762284.17 0.2645 0.2288

Earth	16540-04-23 15:36 G	7762284.07	7762284.15	7762284.23	0.2648	0.2107 *
Jupiter	16542-06-23 18:14 G	7763075.13	7763075.26	7763075.38	0.0536	0.0290
Jupiter	16542-09-21 12:57 G	7763164.96	7763165.04	7763165.12	0.0539	0.0446
Moon	16542-10-22 19:40 G	7763196.25	7763196.32	7763196.39	0.2686	0.2213
Earth	16542-10-22 20:38 G	7763196.28	7763196.36	7763196.45	0.2684	0.2002 *
Mars	16543-03-19 04:19 G	7763343.55	7763343.68	7763343.80	0.1951	0.0222
Venus	16545-02-17 16:04 G	7764045.09	7764045.17	7764045.24	0.3688	0.2837
Mars	16547-11-16 20:09 G	7765047.27	7765047.34	7765047.41	0.1588	0.1387
Saturn	16548-01-05 18:28 G	7765097.21	7765097.27	7765097.33	0.0279	0.0258
Jupiter	16548-02-08 12:57 G	7765130.91	7765131.04	7765131.17	0.0492	0.0249
Saturn	16548-04-03 10:19 G	7765185.80	7765185.93	7765186.06	0.0279	0.0146
Jupiter	16548-05-08 02:09 G	7765220.48	7765220.59	7765220.71	0.0490	0.0323
Saturn	16548-07-01 01:55 G	7765274.43	7765274.58	7765274.73	0.0278	0.0036
Saturn	16548-09-27 17:02 G	7765363.06	7765363.21	7765363.36	0.0278	0.0071
Saturn	16548-12-25 07:40 G	7765451.71	7765451.82	7765451.94	0.0278	0.0176
Saturn	16549-03-23 22:19 G	7765540.43	7765540.43	7765540.43	0.0278	0.0277
Mars	16549-10-22 18:00 G	7765753.18	7765753.25	7765753.32	0.1585	0.1406
Uranus	16550-03-10 01:12 G	7765891.54	7765891.55	7765891.59	0.0133	0.0131
Uranus	16550-06-06 05:31 G	7765979.66	7765979.73	7765979.82	0.0133	0.0112
Uranus	16550-09-02 09:50 G	7766067.81	7766067.91	7766068.02	0.0133	0.0093
Venus	16550-09-03 11:02 G	7766068.86	7766068.96	7766069.07	0.3689	0.1333
Uranus	16550-11-29 13:55 G	7766155.96	7766156.08	7766156.21	0.0133	0.0075
Uranus	16551-02-25 18:00 G	7766244.12	7766244.25	7766244.40	0.0133	0.0057
Uranus	16551-05-24 22:19 G	7766332.29	7766332.43	7766332.58	0.0133	0.0038
Uranus	16551-08-21 02:24 G	7766420.45	7766420.60	7766420.75	0.0133	0.0020
Uranus	16551-11-17 06:28 G	7766508.62	7766508.77	7766508.92	0.0133	0.0003
Uranus	16552-02-13 10:19 G	7766596.79	7766596.93	7766597.08	0.0133	0.0016
Venus	16552-03-16 11:16 G	7766628.90	7766628.97	7766629.04	0.3682	0.3031
Uranus	16552-05-11 14:24 G	7766684.96	7766685.10	7766685.25	0.0133	0.0034
Uranus	16552-08-07 18:14 G	7766773.13	7766773.26	7766773.40	0.0133	0.0052

Mars	16552-08-08 09:07 G	7766773.79	7766773.88	7766773.97	0.1949	0.1360
Uranus	16552-11-03 22:04 G	7766861.30	7766861.42	7766861.56	0.0133	0.0069
Uranus	16553-01-31 02:09 G	7766949.48	7766949.59	7766949.70	0.0133	0.0086
Moon	16553-04-26 12:00 G	7767034.88	7767035.00	7767035.12	0.2651	0.0374
Earth	16553-04-26 12:57 G	7767034.91	7767035.04	7767035.16	0.2648	0.0335 *
Uranus	16553-04-29 05:45 G	7767037.66	7767037.74	7767037.85	0.0133	0.0105
Uranus	16553-07-26 09:50 G	7767125.86	7767125.91	7767125.97	0.0133	0.0121
Jupiter	16554-04-11 18:43 G	7767385.21	7767385.28	7767385.34	0.0536	0.0480
Jupiter	16554-07-10 13:55 G	7767474.96	7767475.08	7767475.21	0.0538	0.0265
Moon	16555-10-25 18:57 G	7767947.16	7767947.29	7767947.42	0.2689	0.0042
Earth	16555-10-25 19:26 G	7767947.18	7767947.31	7767947.44	0.2683	0.0061 *
Venus	16556-03-19 06:00 G	7768092.63	7768092.75	7768092.86	0.3689	0.0124
Venus	16557-09-30 09:36 G	7768652.78	7768652.90	7768653.03	0.3681	0.1191
Mars	16559-03-15 00:14 G	7769183.38	7769183.51	7769183.64	0.1585	0.0710
Jupiter	16559-11-27 15:36 G	7769441.06	7769441.15	7769441.24	0.0492	0.0384
Jupiter	16560-02-25 04:33 G	7769530.55	7769530.69	7769530.83	0.0490	0.0183
Venus	16561-10-03 00:28 G	7770116.42	7770116.52	7770116.63	0.3690	0.1522
Saturn	16563-01-13 08:09 G	7770583.78	7770583.84	7770583.91	0.0280	0.0252
Saturn	16563-04-11 23:16 G	7770672.34	7770672.47	7770672.60	0.0280	0.0146
Venus	16563-04-16 08:38 G	7770676.74	7770676.86	7770676.99	0.3681	0.0785
Saturn	16563-07-09 14:52 G	7770760.96	7770761.12	7770761.27	0.0281	0.0037
Saturn	16563-10-06 06:28 G	7770849.62	7770849.77	7770849.92	0.0281	0.0076
Saturn	16564-01-02 22:48 G	7770938.33	7770938.45	7770938.56	0.0281	0.0190
Jupiter	16566-04-28 15:07 G	7771784.99	7771785.13	7771785.28	0.0538	0.0088
Moon	16566-04-29 09:21 G	7771785.78	7771785.89	7771786.00	0.2655	0.1270
Earth	16566-04-29 09:50 G	7771785.81	7771785.91	7771786.02	0.2649	0.1397 *
Venus	16567-04-18 18:57 G	7772140.22	7772140.29	7772140.36	0.3690	0.2867
Mars	16568-08-04 06:57 G	7772613.64	7772613.79	7772613.93	0.1586	0.0057
Earth	16568-10-27 18:28 G	7772698.18	7772698.27	7772698.36	0.2682	0.1974
Moon	16568-10-27 18:43 G	7772698.19	7772698.28	7772698.37	0.2689	0.1935 *

Venus	16568-10-30 08:24 G	7772700.76	7772700.85	7772700.93	0.3680	0.2834
Jupiter	16571-12-14 06:57 G	7773840.64	7773840.79	7773840.95	0.0490	0.0045
Mars	16573-04-26 23:31 G	7774340.37	7774340.48	7774340.59	0.1952	0.1006
Saturn	16577-08-21 09:36 G	7775917.79	7775917.90	7775918.02	0.0278	0.0190
Saturn	16577-11-18 01:12 G	7776006.41	7776006.55	7776006.70	0.0278	0.0080
Mars	16577-12-25 13:40 G	7776043.93	7776044.07	7776044.20	0.1587	0.0637
Saturn	16578-02-14 16:33 G	7776095.04	7776095.19	7776095.34	0.0278	0.0029
Jupiter	16578-02-14 16:48 G	7776095.05	7776095.20	7776095.35	0.0538	0.0087 *
Saturn	16578-05-14 07:26 G	7776183.68	7776183.81	7776183.95	0.0277	0.0134
Saturn	16578-08-10 22:04 G	7776272.35	7776272.42	7776272.50	0.0277	0.0236
Mars	16582-09-17 04:33 G	7777770.57	7777770.69	7777770.82	0.1951	0.0117
Jupiter	16583-10-02 09:07 G	7778150.74	7778150.88	7778151.03	0.0491	0.0101
Jupiter	16583-12-30 22:48 G	7778240.42	7778240.45	7778240.48	0.0489	0.0475
Moon	16586-04-24 19:55 G	7779086.24	7779086.33	7779086.42	0.2646	0.1813
Earth	16586-04-24 20:52 G	7779086.28	7779086.37	7779086.47	0.2648	0.1735 *
Mars	16587-05-17 20:24 G	7779474.27	7779474.35	7779474.44	0.1588	0.1290
Moon	16588-10-23 01:12 G	7779998.45	7779998.55	7779998.65	0.2686	0.1682
Earth	16588-10-23 02:09 G	7779998.49	7779998.59	7779998.70	0.2684	0.1605 *
Mars	16589-04-22 18:28 G	7780180.22	7780180.27	7780180.31	0.1585	0.1509
Jupiter	16589-12-03 17:45 G	7780405.11	7780405.24	7780405.37	0.0537	0.0267
Jupiter	16590-03-03 12:43 G	7780494.96	7780495.03	7780495.10	0.0540	0.0471
Uranus	16591-12-11 06:28 G	7781142.76	7781142.77	7781142.80	0.0145	0.0144
Mars	16592-02-07 09:07 G	7781200.79	7781200.88	7781200.98	0.1949	0.1251
Uranus	16592-03-08 12:14 G	7781230.93	7781231.01	7781231.11	0.0145	0.0119
Uranus	16592-06-04 18:14 G	7781319.14	7781319.26	7781319.38	0.0145	0.0094
Saturn	16592-08-28 22:48 G	7781404.34	7781404.45	7781404.56	0.0280	0.0188
Uranus	16592-08-31 23:45 G	7781407.36	7781407.49	7781407.64	0.0145	0.0070
Saturn	16592-11-25 14:09 G	7781492.94	7781493.09	7781493.24	0.0281	0.0080
Uranus	16592-11-28 05:45 G	7781495.59	7781495.74	7781495.90	0.0145	0.0045
Saturn	16593-02-22 05:45 G	7781581.59	7781581.74	7781581.90	0.0281	0.0031

Uranus	16593-02-24 11:45 G	7781583.83	7781583.99	7781584.16	0.0145	0.0020
Saturn	16593-05-21 21:50 G	7781670.28	7781670.41	7781670.55	0.0281	0.0145
Uranus	16593-05-23 17:45 G	7781672.08	7781672.24	7781672.41	0.0145	0.0006
Saturn	16593-08-18 14:09 G	7781759.04	7781759.09	7781759.15	0.0281	0.0262
Uranus	16593-08-19 23:45 G	7781760.33	7781760.49	7781760.65	0.0145	0.0032
Uranus	16593-11-16 06:00 G	7781848.60	7781848.75	7781848.90	0.0145	0.0057
Uranus	16594-02-12 12:00 G	7781936.87	7781937.00	7781937.14	0.0145	0.0083
Uranus	16594-05-11 18:14 G	7782025.15	7782025.26	7782025.37	0.0145	0.0109
Uranus	16594-08-08 00:14 G	7782113.47	7782113.51	7782113.58	0.0145	0.0136
Jupiter	16595-07-21 11:45 G	7782460.86	7782460.99	7782461.12	0.0492	0.0239
Jupiter	16595-10-19 00:57 G	7782550.43	7782550.54	7782550.66	0.0489	0.0333
Mars	16598-09-13 00:43 G	7783610.40	7783610.53	7783610.66	0.1585	0.0816
Moon	16599-04-27 17:16 G	7783837.10	7783837.22	7783837.35	0.2652	0.0152
Earth	16599-04-27 18:14 G	7783837.13	7783837.26	7783837.38	0.2649	0.0068 *
Jupiter	16601-09-22 17:31 G	7784715.16	7784715.23	7784715.31	0.0535	0.0466
Venus	16601-09-25 14:24 G	7784718.01	7784718.10	7784718.19	0.3689	0.2364
Moon	16601-10-27 00:43 G	7784749.40	7784749.53	7784749.66	0.2690	0.0245
Earth	16601-10-27 00:57 G	7784749.41	7784749.54	7784749.67	0.2683	0.0360 *
Jupiter	16601-12-21 12:57 G	7784804.92	7784805.04	7784805.17	0.0538	0.0278
Saturn	16607-01-09 11:16 G	7786649.88	7786649.97	7786650.07	0.0279	0.0219
Saturn	16607-04-08 03:07 G	7786738.49	7786738.63	7786738.77	0.0279	0.0107
Venus	16607-04-11 09:36 G	7786741.78	7786741.90	7786742.01	0.3689	0.0880
Jupiter	16607-05-10 14:24 G	7786771.00	7786771.10	7786771.19	0.0493	0.0377
Saturn	16607-07-05 18:28 G	7786827.12	7786827.27	7786827.43	0.0279	0.0006
Jupiter	16607-08-08 03:21 G	7786860.50	7786860.64	7786860.78	0.0490	0.0192
Saturn	16607-10-02 09:36 G	7786915.76	7786915.90	7786916.04	0.0278	0.0109
Saturn	16607-12-30 00:14 G	7787004.42	7787004.51	7787004.61	0.0278	0.0212
Mars	16608-02-04 07:12 G	7787040.65	7787040.80	7787040.95	0.1586	0.0130
Venus	16608-10-22 10:33 G	7787301.84	7787301.94	7787302.03	0.3682	0.2470
Neptune	16611-03-17 20:38 G	7788178.32	7788178.36	7788178.44	0.0088	0.0081

Neptune 16611-06-13 22:48 G 7788266.38 7788266.45 7788266.55 0.0088 0.0073

Neptune 16611-09-10 00:43 G 7788354.44 7788354.53 7788354.65 0.0088 0.0066

Neptune 16611-12-07 02:52 G 7788442.52 7788442.62 7788442.75 0.0088 0.0059

Neptune 16612-03-04 05:16 G 7788530.59 7788530.72 7788530.85 0.0088 0.0051

Moon 16612-04-30 14:52 G 7788588.03 7788588.12 7788588.21 0.2655 0.1783

Earth 16612-04-30 15:07 G 7788588.04 7788588.13 7788588.23 0.2649 0.1754 *

Neptune 16612-05-31 07:12 G 7788618.67 7788618.80 7788618.94 0.0088 0.0043

Neptune 16612-08-27 09:21 G 7788706.75 7788706.89 7788707.04 0.0088 0.0035

Venus 16612-10-25 04:19 G 7788765.57 7788765.68 7788765.79 0.3690 0.0568

Mars 16612-10-26 23:45 G 7788767.39 7788767.49 7788767.59 0.1952 0.1130

Neptune 16612-11-23 11:16 G 7788794.83 7788794.97 7788795.13 0.0088 0.0028

Neptune 16613-02-19 13:26 G 7788882.91 7788883.06 7788883.22 0.0088 0.0020

Neptune 16613-05-18 15:50 G 7788971.00 7788971.16 7788971.31 0.0088 0.0012

Neptune 16613-08-14 17:45 G 7789059.09 7789059.24 7789059.40 0.0088 0.0005

Jupiter 16613-10-09 13:55 G 7789114.93 7789115.08 7789115.22 0.0538 0.0094

Neptune 16613-11-10 19:55 G 7789147.17 7789147.33 7789147.49 0.0088 0.0004

Neptune 16614-02-06 22:04 G 7789235.26 7789235.42 7789235.58 0.0088 0.0011

Neptune 16614-05-06 00:14 G 7789323.36 7789323.51 7789323.67 0.0088 0.0019

Venus 16614-05-08 09:07 G 7789325.76 7789325.88 7789326.01 0.3681 0.0593

Neptune 16614-08-02 02:24 G 7789411.45 7789411.60 7789411.75 0.0088 0.0027

Neptune 16614-10-29 04:19 G 7789499.55 7789499.68 7789499.84 0.0088 0.0035

Earth 16614-10-30 00:00 G 7789500.44 7789500.50 7789500.56 0.2682 0.2388

Moon 16614-10-30 00:14 G 7789500.47 7789500.51 7789500.56 0.2689 0.2516 *

Neptune 16615-01-25 06:28 G 7789587.64 7789587.77 7789587.92 0.0088 0.0043

Neptune 16615-04-23 08:38 G 7789675.74 7789675.86 7789676.01 0.0088 0.0051

Neptune 16615-07-20 10:48 G 7789763.85 7789763.95 7789764.09 0.0088 0.0059

Neptune 16615-10-16 12:57 G 7789851.96 7789852.04 7789852.16 0.0088 0.0067

Neptune 16616-01-12 15:21 G 7789940.07 7789940.14 7789940.24 0.0088 0.0075

Neptune 16616-04-09 17:31 G 7790028.19 7790028.23 7790028.30 0.0088 0.0083

Mars 16617-06-26 13:55 G 7790470.94 7790471.08 7790471.22 0.1587 0.0541

Pluto 16617-10-25 05:02 G 7790591.64 7790591.71 7790591.82 0.0074 0.0065

Pluto 16618-01-21 07:26 G 7790679.69 7790679.81 7790679.97 0.0073 0.0050

Pluto 16618-04-19 09:50 G 7790767.76 7790767.91 7790768.10 0.0073 0.0035

Venus 16618-05-10 22:48 G 7790789.36 7790789.45 7790789.55 0.3690 0.1951

Pluto 16618-07-16 12:28 G 7790855.84 7790856.02 7790856.22 0.0073 0.0019

Pluto 16618-10-12 15:07 G 7790943.93 7790944.13 7790944.32 0.0073 0.0004

Pluto 16619-01-08 17:16 G 7791032.03 7791032.22 7791032.42 0.0073 0.0011

Pluto 16619-04-06 19:26 G 7791120.14 7791120.31 7791120.50 0.0073 0.0026

Jupiter 16619-05-27 05:45 G 7791170.59 7791170.74 7791170.89 0.0491 0.0053

Pluto 16619-07-03 21:50 G 7791208.26 7791208.41 7791208.58 0.0073 0.0040

Pluto 16619-09-30 00:00 G 7791296.39 7791296.50 7791296.64 0.0073 0.0055

Venus 16619-11-22 08:24 G 7791349.73 7791349.85 7791349.97 0.3681 0.1398

Pluto 16619-12-27 02:24 G 7791384.55 7791384.60 7791384.67 0.0072 0.0069

Saturn 16622-01-17 00:28 G 7792136.44 7792136.52 7792136.63 0.0280 0.0216

Mars 16622-03-19 04:33 G 7792197.57 7792197.69 7792197.82 0.1951 0.0052

Saturn 16622-04-15 15:50 G 7792225.02 7792225.16 7792225.30 0.0280 0.0109

Saturn 16622-07-13 07:26 G 7792313.65 7792313.81 7792313.96 0.0280 0.0002

Saturn 16622-10-09 23:16 G 7792402.33 7792402.47 7792402.61 0.0281 0.0114

Saturn 16623-01-06 15:36 G 7792491.06 7792491.15 7792491.24 0.0281 0.0229

Venus 16623-11-24 17:02 G 7792813.16 7792813.21 7792813.26 0.3691 0.3285

Venus 16625-06-07 08:09 G 7793373.80 7793373.84 7793373.88 0.3680 0.3493

Jupiter 16625-07-28 14:38 G 7793424.97 7793425.11 7793425.26 0.0537 0.0090

Mars 16626-11-16 20:52 G 7793901.27 7793901.37 7793901.46 0.1588 0.1197

Jupiter 16631-03-15 08:24 G 7795480.70 7795480.85 7795481.00 0.0491 0.0087

Mars 16631-08-09 09:36 G 7795627.79 7795627.90 7795628.00 0.1950 0.1126

Moon 16632-04-26 01:12 G 7795888.45 7795888.55 7795888.66 0.2648 0.1503

Earth 16632-04-26 02:09 G 7795888.48 7795888.59 7795888.70 0.2648 0.1363 *

Uranus 16634-03-31 08:38 G 7796592.82 7796592.86 7796592.91 0.0133 0.0125

Uranus 16634-06-27 12:43 G 7796680.95 7796681.03 7796681.13 0.0133 0.0107

Uranus 16634-09-23 17:02 G 7796769.10 7796769.21 7796769.33 0.0133 0.0088

Moon 16634-10-25 06:43 G 7796800.67 7796800.78 7796800.90 0.2687 0.1365

Earth 16634-10-25 07:40 G 7796800.71 7796800.82 7796800.94 0.2684 0.1206 *

Uranus 16634-12-20 21:07 G 7796857.26 7796857.38 7796857.52 0.0133 0.0070

Uranus 16635-03-19 01:26 G 7796945.42 7796945.56 7796945.70 0.0133 0.0051

Uranus 16635-06-15 05:31 G 7797033.59 7797033.73 7797033.88 0.0133 0.0033

Uranus 16635-09-11 09:36 G 7797121.75 7797121.90 7797122.05 0.0133 0.0015

Uranus 16635-12-08 13:40 G 7797209.92 7797210.07 7797210.22 0.0133 0.0004

Uranus 16636-03-05 17:45 G 7797298.09 7797298.24 7797298.39 0.0133 0.0021

Saturn 16636-05-28 10:33 G 7797381.90 7797381.94 7797382.00 0.0278 0.0263

Uranus 16636-06-01 21:36 G 7797386.26 7797386.40 7797386.55 0.0133 0.0039

Saturn 16636-08-25 02:38 G 7797470.48 7797470.61 7797470.74 0.0278 0.0150

Uranus 16636-08-29 01:40 G 7797474.44 7797474.57 7797474.71 0.0133 0.0057

Saturn 16636-11-21 18:14 G 7797559.11 7797559.26 7797559.41 0.0278 0.0040

Uranus 16636-11-25 05:31 G 7797562.61 7797562.73 7797562.86 0.0133 0.0074

Saturn 16637-02-18 09:21 G 7797647.74 7797647.89 7797648.04 0.0278 0.0068

Uranus 16637-02-21 09:36 G 7797650.79 7797650.90 7797651.01 0.0133 0.0092

Jupiter 16637-05-16 16:04 G 7797735.04 7797735.17 7797735.30 0.0537 0.0265

Saturn 16637-05-18 00:14 G 7797736.39 7797736.51 7797736.63 0.0278 0.0172

Uranus 16637-05-20 13:12 G 7797738.98 7797739.05 7797739.14 0.0133 0.0110

Jupiter 16637-08-14 11:02 G 7797824.89 7797824.96 7797825.03 0.0540 0.0473

Saturn 16637-08-14 14:38 G 7797825.09 7797825.11 7797825.13 0.0277 0.0274

Uranus 16637-08-16 17:16 G 7797827.18 7797827.22 7797827.27 0.0133 0.0126

Mars 16638-03-15 00:57 G 7798037.42 7798037.54 7798037.66 0.1585 0.0914

Jupiter 16643-01-01 10:33 G 7799790.81 7799790.94 7799791.08 0.0492 0.0228

Jupiter 16643-03-31 23:45 G 7799880.38 7799880.49 7799880.60 0.0489 0.0344

Moon 16645-04-28 22:33 G 7800639.32 7800639.44 7800639.57 0.2653 0.0356

Earth 16645-04-28 23:31 G 7800639.35 7800639.48 7800639.60 0.2649 0.0400 *

Mars 16647-08-05 07:40 G 7801467.67 7801467.82 7801467.96 0.1586 0.0234

Moon 16647-10-28 06:14 G 7801551.64 7801551.76 7801551.88 0.2690 0.0806

Earth 16647-10-28 06:28 G 7801551.65 7801551.77 7801551.90 0.2683 0.0772 *

Jupiter 16649-03-04 17:02 G 7802045.13 7802045.21 7802045.29 0.0536 0.0445

Jupiter 16649-06-02 12:28 G 7802134.90 7802135.02 7802135.14 0.0539 0.0300

Saturn 16651-06-06 00:00 G 7802868.45 7802868.50 7802868.56 0.0280 0.0259

Saturn 16651-09-02 15:07 G 7802957.01 7802957.13 7802957.26 0.0280 0.0153

Saturn 16651-11-30 06:28 G 7803045.62 7803045.77 7803045.93 0.0281 0.0045

Saturn 16652-02-26 22:19 G 7803134.28 7803134.43 7803134.58 0.0281 0.0068

Mars 16652-04-27 00:00 G 7803194.40 7803194.50 7803194.60 0.1952 0.1238

Saturn 16652-05-25 14:24 G 7803222.98 7803223.10 7803223.22 0.0281 0.0182

Venus 16652-10-16 17:31 G 7803367.19 7803367.23 7803367.27 0.3688 0.3427

Jupiter 16654-10-20 13:12 G 7804100.95 7804101.05 7804101.15 0.0492 0.0365

Jupiter 16655-01-18 02:09 G 7804190.45 7804190.59 7804190.73 0.0490 0.0202

Mars 16656-12-25 14:24 G 7804897.95 7804898.10 7804898.24 0.1587 0.0441

Moon 16658-05-01 20:24 G 7805390.27 7805390.35 7805390.43 0.2656 0.2038

Earth 16658-05-01 20:24 G 7805390.28 7805390.35 7805390.43 0.2649 0.2108 *

Venus 16658-05-02 12:57 G 7805390.94 7805391.04 7805391.14 0.3689 0.1896

Jupiter 16661-03-21 12:43 G 7806444.89 7806445.03 7806445.18 0.0537 0.0108

Mars 16661-09-17 05:02 G 7806624.58 7806624.71 7806624.83 0.1951 0.0135

Venus 16663-11-16 07:55 G 7807414.71 7807414.83 7807414.94 0.3689 0.0418

Venus 16665-05-29 09:50 G 7807974.80 7807974.91 7807975.02 0.3681 0.1899

Saturn 16666-01-12 04:04 G 7808202.56 7808202.67 7808202.79 0.0279 0.0180

Saturn 16666-04-10 19:55 G 7808291.18 7808291.33 7808291.48 0.0279 0.0069

Mars 16666-05-17 21:07 G 7808328.28 7808328.38 7808328.48 0.1588 0.1103

Saturn 16666-07-08 11:16 G 7808379.82 7808379.97 7808380.12 0.0279 0.0040

Saturn 16666-10-05 02:09 G 7808468.47 7808468.59 7808468.72 0.0278 0.0146

Jupiter 16666-11-06 04:19 G 7808500.53 7808500.68 7808500.83 0.0491 0.0059

Saturn 16667-01-01 16:48 G 7808557.14 7808557.20 7808557.27 0.0278 0.0249

Venus 16669-06-01 02:38 G 7809438.50 7809438.61 7809438.72 0.3690 0.1009

Venus 16670-12-13 08:38 G 7809998.73 7809998.86 7809998.99 0.3681 0.0033

Mars 16671-02-07 09:36 G 7810054.79 7810054.90 7810055.01 0.1950 0.1018

Jupiter 16673-01-07 13:26 G 7810754.91 7810755.06 7810755.21 0.0537 0.0080

Venus	16674-12-15 21:07 G	7811462.29	7811462.38	7811462.46	0.3690	0.2379
Uranus	16676-01-01 14:09 G	7811844.04	7811844.09	7811844.14	0.0145	0.0137
Uranus	16676-03-29 19:40 G	7811932.23	7811932.32	7811932.43	0.0145	0.0113
Uranus	16676-06-26 01:26 G	7812020.44	7812020.56	7812020.70	0.0145	0.0088
Venus	16676-06-28 07:55 G	7812022.72	7812022.83	7812022.94	0.3680	0.2029
Uranus	16676-09-22 07:26 G	7812108.67	7812108.81	7812108.96	0.0145	0.0063
Uranus	16676-12-19 13:12 G	7812196.90	7812197.05	7812197.21	0.0145	0.0038
Uranus	16677-03-17 19:12 G	7812285.14	7812285.30	7812285.47	0.0145	0.0013
Uranus	16677-06-14 01:12 G	7812373.39	7812373.55	7812373.72	0.0145	0.0013
Uranus	16677-09-10 07:12 G	7812461.65	7812461.80	7812461.96	0.0145	0.0039
Mars	16677-09-13 01:26 G	7812464.44	7812464.56	7812464.67	0.1585	0.1014
Uranus	16677-12-07 13:26 G	7812549.91	7812550.06	7812550.21	0.0145	0.0064
Uranus	16678-03-05 19:26 G	7812638.18	7812638.31	7812638.44	0.0145	0.0090
Moon	16678-04-27 06:28 G	7812690.66	7812690.77	7812690.89	0.2649	0.1139
Earth	16678-04-27 07:40 G	7812690.70	7812690.82	7812690.93	0.2648	0.0990 *
Uranus	16678-06-02 01:40 G	7812726.47	7812726.57	7812726.67	0.0145	0.0116
Jupiter	16678-08-25 06:43 G	7812810.63	7812810.78	7812810.93	0.0491	0.0081
Uranus	16678-08-29 07:40 G	7812814.81	7812814.82	7812814.86	0.0145	0.0143
Moon	16680-10-25 12:28 G	7813602.90	7813603.02	7813603.14	0.2688	0.0911
Earth	16680-10-25 13:12 G	7813602.92	7813603.05	7813603.17	0.2683	0.0813 *
Saturn	16681-01-19 17:16 G	7813689.11	7813689.22	7813689.34	0.0280	0.0178
Saturn	16681-04-18 08:38 G	7813777.71	7813777.86	7813778.01	0.0280	0.0070
Saturn	16681-07-16 00:14 G	7813866.36	7813866.51	7813866.67	0.0280	0.0040
Saturn	16681-10-12 16:19 G	7813955.05	7813955.18	7813955.31	0.0281	0.0154
Saturn	16682-01-09 08:38 G	7814043.82	7814043.86	7814043.90	0.0281	0.0270
Jupiter	16684-10-26 13:55 G	7815064.96	7815065.08	7815065.22	0.0536	0.0268
Jupiter	16685-01-24 08:52 G	7815154.81	7815154.87	7815154.94	0.0539	0.0471
Mars	16687-02-03 07:55 G	7815894.68	7815894.83	7815894.97	0.1586	0.0329
Jupiter	16690-06-13 09:36 G	7817120.76	7817120.90	7817121.03	0.0492	0.0216
Jupiter	16690-09-10 22:48 G	7817210.35	7817210.45	7817210.55	0.0490	0.0356

Moon 16691-04-30 04:04 G 7817441.55 7817441.67 7817441.79 0.2653 0.0628

Earth 16691-04-30 04:48 G 7817441.58 7817441.70 7817441.82 0.2649 0.0762 *

Mars 16691-10-27 00:14 G 7817621.42 7817621.51 7817621.59 0.1952 0.1353

Moon 16693-10-28 11:45 G 7818353.87 7818353.99 7818354.11 0.2690 0.1107

Earth 16693-10-28 12:00 G 7818353.88 7818354.00 7818354.12 0.2683 0.1177 *

Neptune 16694-03-18 16:48 G 7818495.19 7818495.20 7818495.23 0.0089 0.0088

Neptune 16694-06-14 18:57 G 7818583.24 7818583.29 7818583.37 0.0089 0.0080

Neptune 16694-09-10 21:21 G 7818671.31 7818671.39 7818671.49 0.0089 0.0072

Neptune 16694-12-07 23:31 G 7818759.38 7818759.48 7818759.60 0.0089 0.0064

Neptune 16695-03-06 01:40 G 7818847.46 7818847.57 7818847.71 0.0089 0.0056

Saturn 16695-06-01 03:50 G 7818934.57 7818934.66 7818934.76 0.0279 0.0221

Neptune 16695-06-02 03:50 G 7818935.54 7818935.66 7818935.81 0.0089 0.0048

Saturn 16695-08-28 19:40 G 7819023.18 7819023.32 7819023.47 0.0278 0.0109

Neptune 16695-08-29 06:00 G 7819023.62 7819023.75 7819023.91 0.0089 0.0040

Neptune 16695-11-25 08:38 G 7819111.71 7819111.86 7819112.01 0.0089 0.0031

Saturn 16695-11-25 11:16 G 7819111.82 7819111.97 7819112.12 0.0278 0.0001 *

Neptune 16696-02-21 10:48 G 7819199.80 7819199.95 7819200.10 0.0089 0.0022

Saturn 16696-02-22 02:24 G 7819200.46 7819200.60 7819200.74 0.0278 0.0107

Neptune 16696-05-19 12:57 G 7819287.88 7819288.04 7819288.19 0.0089 0.0014

Saturn 16696-05-20 17:02 G 7819289.12 7819289.21 7819289.31 0.0278 0.0211

Mars 16696-06-25 14:38 G 7819324.97 7819325.11 7819325.25 0.1587 0.0344

Jupiter 16696-08-14 15:07 G 7819375.05 7819375.13 7819375.22 0.0536 0.0446

Neptune 16696-08-15 15:07 G 7819375.97 7819376.13 7819376.28 0.0089 0.0006

Neptune 16696-11-11 17:16 G 7819464.06 7819464.22 7819464.37 0.0089 0.0002

Jupiter 16696-11-12 10:33 G 7819464.82 7819464.94 7819465.07 0.0539 0.0300

Neptune 16697-02-07 19:12 G 7819552.15 7819552.30 7819552.46 0.0089 0.0010

Neptune 16697-05-06 21:21 G 7819640.24 7819640.39 7819640.55 0.0089 0.0018

Neptune 16697-08-02 23:31 G 7819728.33 7819728.48 7819728.63 0.0089 0.0026

Neptune 16697-10-30 01:40 G 7819816.43 7819816.57 7819816.71 0.0089 0.0034

Neptune 16698-01-26 03:36 G 7819904.52 7819904.65 7819904.79 0.0089 0.0042

Neptune 16698-04-24 05:45 G 7819992.62 7819992.74 7819992.87 0.0089 0.0049

Neptune 16698-07-21 07:40 G 7820080.71 7820080.82 7820080.95 0.0089 0.0057

Neptune 16698-10-17 09:36 G 7820168.81 7820168.90 7820169.02 0.0089 0.0066

Neptune 16699-01-13 12:00 G 7820256.91 7820257.00 7820257.09 0.0089 0.0073

Neptune 16699-04-11 13:55 G 7820345.02 7820345.08 7820345.15 0.0089 0.0080

Neptune 16699-07-08 15:36 G 7820433.15 7820433.15 7820433.19 0.0089 0.0089

Mars 16701-03-19 05:16 G 7821051.59 7821051.72 7821051.84 0.1951 0.0250

Jupiter 16702-04-02 12:00 G 7821430.90 7821431.00 7821431.10 0.0492 0.0356

Jupiter 16702-07-01 00:43 G 7821520.40 7821520.53 7821520.67 0.0490 0.0211

Earth 16704-05-03 01:40 G 7822192.53 7822192.57 7822192.62 0.2649 0.2460

Moon 16704-05-03 01:40 G 7822192.54 7822192.57 7822192.61 0.2657 0.2533 *

Mars 16705-11-16 21:21 G 7822755.28 7822755.39 7822755.51 0.1588 0.1006

Jupiter 16708-09-01 12:00 G 7823774.86 7823775.00 7823775.15 0.0538 0.0126

Venus 16709-05-24 16:04 G 7824040.10 7824040.17 7824040.24 0.3689 0.2944

Saturn 16710-06-09 16:48 G 7824421.11 7824421.20 7824421.29 0.0280 0.0221

Mars 16710-08-09 09:50 G 7824481.80 7824481.91 7824482.03 0.1950 0.0898

Saturn 16710-09-06 07:55 G 7824509.69 7824509.83 7824509.97 0.0280 0.0115

Saturn 16710-12-03 23:31 G 7824598.32 7824598.48 7824598.63 0.0280 0.0009

Saturn 16711-03-02 15:07 G 7824686.99 7824687.13 7824687.28 0.0281 0.0108

Moon 16711-04-26 14:38 G 7824742.09 7824742.11 7824742.14 0.2644 0.2567

Earth 16711-04-26 15:36 G 7824742.10 7824742.15 7824742.20 0.2648 0.2408 *

Saturn 16711-05-30 07:26 G 7824775.72 7824775.81 7824775.91 0.0281 0.0223

Moon 16713-10-24 18:57 G 7825654.25 7825654.29 7825654.33 0.2684 0.2538

Earth 16713-10-24 19:55 G 7825654.28 7825654.33 7825654.40 0.2684 0.2349 *

Jupiter 16714-01-19 14:38 G 7825741.11 7825741.11 7825741.11 0.0493 0.0493

Jupiter 16714-04-19 03:07 G 7825830.48 7825830.63 7825830.79 0.0491 0.0071

Venus 16714-12-08 11:16 G 7826063.86 7826063.97 7826064.08 0.3689 0.1427

Venus 16716-06-20 10:48 G 7826623.89 7826623.95 7826624.01 0.3682 0.3157

Mars 16717-03-15 01:55 G 7826891.47 7826891.58 7826891.68 0.1585 0.1120

Uranus 16718-04-21 15:50 G 7827294.10 7827294.16 7827294.23 0.0133 0.0120

Uranus 16718-07-18 20:09 G 7827382.25 7827382.34 7827382.44 0.0133 0.0101

Uranus 16718-10-15 00:14 G 7827470.40 7827470.51 7827470.64 0.0133 0.0083

Uranus 16719-01-11 04:33 G 7827558.56 7827558.69 7827558.83 0.0133 0.0064

Uranus 16719-04-09 08:38 G 7827646.73 7827646.86 7827647.01 0.0133 0.0046

Uranus 16719-07-06 12:43 G 7827734.89 7827735.03 7827735.19 0.0133 0.0029

Uranus 16719-10-02 17:02 G 7827823.06 7827823.21 7827823.36 0.0133 0.0010

Uranus 16719-12-29 21:07 G 7827911.23 7827911.38 7827911.53 0.0133 0.0009

Uranus 16720-03-27 01:12 G 7827999.40 7827999.55 7827999.69 0.0133 0.0027

Jupiter 16720-06-20 12:28 G 7828084.87 7828085.02 7828085.16 0.0537 0.0067

Uranus 16720-06-23 05:02 G 7828087.57 7828087.71 7828087.85 0.0133 0.0044

Venus 16720-06-23 06:14 G 7828087.64 7828087.76 7828087.87 0.3689 0.0060 *

Uranus 16720-09-19 08:52 G 7828175.75 7828175.87 7828176.01 0.0133 0.0063

Uranus 16720-12-16 12:57 G 7828263.93 7828264.04 7828264.16 0.0133 0.0080

Uranus 16721-03-14 16:48 G 7828352.11 7828352.20 7828352.31 0.0133 0.0097

Uranus 16721-06-10 20:38 G 7828440.30 7828440.36 7828440.44 0.0133 0.0115

Uranus 16721-09-07 00:43 G 7828528.51 7828528.53 7828528.55 0.0133 0.0132

Venus 16722-01-04 09:07 G 7828647.76 7828647.88 7828648.00 0.3681 0.1327

Moon 16724-04-28 12:00 G 7829492.88 7829493.00 7829493.12 0.2650 0.0713

Earth 16724-04-28 12:57 G 7829492.92 7829493.04 7829493.16 0.2648 0.0611 *

Saturn 16724-10-19 05:02 G 7829666.65 7829666.71 7829666.78 0.0280 0.0254

Saturn 16725-01-15 21:07 G 7829755.25 7829755.38 7829755.52 0.0279 0.0140

Saturn 16725-04-14 12:43 G 7829843.88 7829844.03 7829844.19 0.0279 0.0030

Saturn 16725-07-12 04:04 G 7829932.52 7829932.67 7829932.82 0.0279 0.0079

Saturn 16725-10-08 18:57 G 7830021.18 7830021.29 7830021.40 0.0279 0.0184

Venus 16726-01-07 00:43 G 7830111.43 7830111.53 7830111.64 0.3690 0.1449

Jupiter 16726-02-05 05:16 G 7830140.57 7830140.72 7830140.87 0.0492 0.0075

Mars 16726-08-05 08:24 G 7830321.70 7830321.85 7830321.99 0.1586 0.0433

Moon 16726-10-27 18:00 G 7830405.12 7830405.25 7830405.38 0.2689 0.0476

Earth 16726-10-27 18:43 G 7830405.15 7830405.28 7830405.40 0.2683 0.0423 *

Venus 16727-07-21 08:09 G 7830671.71 7830671.84 7830671.97 0.3681 0.0616

Mars 16731-04-28 00:14 G 7832048.43 7832048.51 7832048.60 0.1952 0.1467

Venus 16731-07-23 19:12 G 7832135.23 7832135.30 7832135.37 0.3691 0.2801

Jupiter 16732-04-08 12:43 G 7832394.90 7832395.03 7832395.17 0.0536 0.0257

Jupiter 16732-07-07 07:40 G 7832484.76 7832484.82 7832484.89 0.0539 0.0478

Venus 16733-02-03 07:40 G 7832695.73 7832695.82 7832695.91 0.3680 0.2672

Mars 16735-12-26 14:52 G 7833751.97 7833752.12 7833752.26 0.1587 0.0250

Moon 16737-05-01 09:36 G 7834243.79 7834243.90 7834244.01 0.2654 0.1074

Earth 16737-05-01 10:04 G 7834243.81 7834243.92 7834244.03 0.2649 0.1131 *

Jupiter 16737-11-24 07:55 G 7834450.69 7834450.83 7834450.97 0.0492 0.0212

Jupiter 16738-02-21 21:07 G 7834540.28 7834540.38 7834540.49 0.0490 0.0361

Saturn 16739-10-27 19:26 G 7835153.24 7835153.31 7835153.38 0.0280 0.0243

Earth 16739-10-30 17:31 G 7835156.12 7835156.23 7835156.34 0.2682 0.1582

Moon 16739-10-30 17:31 G 7835156.13 7835156.23 7835156.33 0.2689 0.1616 *

Saturn 16740-01-24 10:19 G 7835241.80 7835241.93 7835242.07 0.0280 0.0138

Saturn 16740-04-22 01:55 G 7835330.42 7835330.58 7835330.73 0.0280 0.0030

Saturn 16740-07-19 17:31 G 7835419.08 7835419.23 7835419.38 0.0280 0.0083

Mars 16740-09-17 05:16 G 7835478.60 7835478.72 7835478.84 0.1951 0.0351

Saturn 16740-10-16 09:36 G 7835507.79 7835507.90 7835508.02 0.0280 0.0197

Jupiter 16744-01-26 12:57 G 7836704.97 7836705.04 7836705.13 0.0535 0.0449

Jupiter 16744-04-25 08:38 G 7836794.74 7836794.86 7836794.98 0.0538 0.0297

Mars 16745-05-17 21:50 G 7837182.29 7837182.41 7837182.53 0.1588 0.0910

Jupiter 16749-09-12 10:33 G 7838760.84 7838760.94 7838761.05 0.0493 0.0348

Jupiter 16749-12-10 23:31 G 7838850.35 7838850.48 7838850.62 0.0490 0.0221

Mars 16750-02-07 10:04 G 7838908.81 7838908.92 7838909.04 0.1950 0.0780

Saturn 16754-06-04 21:21 G 7840487.28 7840487.39 7840487.52 0.0279 0.0178

Saturn 16754-09-01 13:12 G 7840575.90 7840576.05 7840576.20 0.0278 0.0066

Mars 16754-10-08 04:48 G 7840612.68 7840612.70 7840612.73 0.1589 0.1560

Saturn 16754-11-29 04:33 G 7840664.54 7840664.69 7840664.84 0.0278 0.0043

Saturn 16755-02-25 19:40 G 7840753.19 7840753.32 7840753.44 0.0278 0.0148

Saturn 16755-05-25 10:19 G 7840841.87 7840841.93 7840841.99 0.0278 0.0251

Jupiter 16756-02-12 10:04 G 7841104.77 7841104.92 7841105.06 0.0538 0.0123

Mars 16756-09-13 02:09 G 7841318.50 7841318.59 7841318.68 0.1585 0.1220

Moon 16757-04-26 19:55 G 7841544.25 7841544.33 7841544.41 0.2646 0.2078

Earth 16757-04-26 20:52 G 7841544.29 7841544.37 7841544.45 0.2648 0.2030 *

Mars 16759-06-30 14:38 G 7842339.10 7842339.11 7842339.12 0.1948 0.1937

Moon 16759-10-26 00:28 G 7842456.44 7842456.52 7842456.60 0.2686 0.2019

Earth 16759-10-26 01:26 G 7842456.48 7842456.56 7842456.65 0.2684 0.1958 *

Uranus 16760-01-22 21:21 G 7842545.33 7842545.39 7842545.47 0.0145 0.0130

Uranus 16760-04-20 03:07 G 7842633.53 7842633.63 7842633.75 0.0145 0.0106

Uranus 16760-07-17 08:52 G 7842721.75 7842721.87 7842722.01 0.0145 0.0081

Uranus 16760-10-13 14:52 G 7842809.97 7842810.12 7842810.27 0.0145 0.0056

Uranus 16761-01-09 20:38 G 7842898.21 7842898.36 7842898.52 0.0145 0.0032

Uranus 16761-04-08 02:38 G 7842986.45 7842986.61 7842986.78 0.0145 0.0006

Jupiter 16761-07-01 13:12 G 7843071.03 7843071.05 7843071.07 0.0493 0.0486

Uranus 16761-07-05 08:38 G 7843074.70 7843074.86 7843075.02 0.0145 0.0019

Jupiter 16761-09-29 01:40 G 7843160.42 7843160.57 7843160.72 0.0491 0.0077

Uranus 16761-10-01 14:38 G 7843162.96 7843163.11 7843163.27 0.0145 0.0045

Uranus 16761-12-28 20:38 G 7843251.22 7843251.36 7843251.51 0.0145 0.0071

Uranus 16762-03-27 02:38 G 7843339.50 7843339.61 7843339.74 0.0145 0.0097

Uranus 16762-06-23 08:52 G 7843427.79 7843427.87 7843427.97 0.0145 0.0123

Venus 16765-12-29 14:38 G 7844713.02 7844713.11 7844713.19 0.3689 0.2469

Mars 16766-02-03 08:38 G 7844748.72 7844748.86 7844749.00 0.1586 0.0530

Jupiter 16767-12-01 11:16 G 7845414.82 7845414.97 7845415.12 0.0537 0.0054

Saturn 16769-06-12 09:50 G 7845973.80 7845973.91 7845974.03 0.0280 0.0181

Saturn 16769-09-09 01:12 G 7846062.40 7846062.55 7846062.70 0.0280 0.0073

Saturn 16769-12-06 16:48 G 7846151.04 7846151.20 7846151.35 0.0280 0.0038

Saturn 16770-03-05 08:38 G 7846239.73 7846239.86 7846239.99 0.0281 0.0151

Moon 16770-04-29 17:16 G 7846295.10 7846295.22 7846295.35 0.2650 0.0418

Earth 16770-04-29 18:14 G 7846295.14 7846295.26 7846295.39 0.2648 0.0243 *

Saturn 16770-06-02 00:57 G 7846328.50 7846328.54 7846328.59 0.0281 0.0267

Mars 16770-10-27 00:28 G 7846475.45 7846475.52 7846475.59 0.1952 0.1579

Venus 16771-07-15 09:36 G 7846736.79 7846736.90 7846737.02 0.3689 0.0975

Moon 16772-10-27 23:31 G 7847207.35 7847207.48 7847207.61 0.2689 0.0141

Earth 16772-10-28 00:00 G 7847207.37 7847207.50 7847207.63 0.2683 0.0075 *

Venus 16773-01-25 10:04 G 7847296.83 7847296.92 7847297.01 0.3682 0.2600

Jupiter 16773-07-18 04:04 G 7847470.52 7847470.67 7847470.82 0.0491 0.0065

Mars 16775-06-26 15:21 G 7848178.99 7848179.14 7848179.28 0.1586 0.0148

Neptune 16775-09-16 18:00 G 7848261.22 7848261.25 7848261.29 0.0088 0.0085

Neptune 16775-12-13 19:55 G 7848349.27 7848349.33 7848349.41 0.0088 0.0078

Neptune 16776-03-10 22:04 G 7848437.33 7848437.42 7848437.52 0.0088 0.0070

Neptune 16776-06-07 00:00 G 7848525.40 7848525.50 7848525.62 0.0088 0.0063

Neptune 16776-09-03 02:09 G 7848613.48 7848613.59 7848613.72 0.0088 0.0055

Neptune 16776-11-30 04:19 G 7848701.55 7848701.68 7848701.82 0.0088 0.0048

Venus 16777-01-28 04:33 G 7848760.57 7848760.69 7848760.80 0.3690 0.0482

Neptune 16777-02-26 06:14 G 7848789.63 7848789.76 7848789.91 0.0088 0.0040

Neptune 16777-05-25 08:24 G 7848877.71 7848877.85 7848878.00 0.0088 0.0032

Neptune 16777-08-21 10:33 G 7848965.79 7848965.94 7848966.10 0.0088 0.0025

Neptune 16777-11-17 12:43 G 7849053.88 7849054.03 7849054.19 0.0088 0.0017

Pluto 16778-02-01 05:02 G 7849129.68 7849129.71 7849129.76 0.0071 0.0067

Neptune 16778-02-13 14:52 G 7849141.96 7849142.12 7849142.28 0.0088 0.0009

Pluto 16778-04-30 05:45 G 7849217.67 7849217.74 7849217.82 0.0071 0.0058

Neptune 16778-05-12 17:02 G 7849230.05 7849230.21 7849230.37 0.0088 0.0001

Pluto 16778-07-27 06:14 G 7849305.68 7849305.76 7849305.87 0.0071 0.0049

Neptune 16778-08-08 19:12 G 7849318.14 7849318.30 7849318.46 0.0088 0.0007

Venus 16778-08-11 08:38 G 7849320.73 7849320.86 7849320.98 0.3681 0.0745

Pluto 16778-10-23 07:12 G 7849393.69 7849393.80 7849393.91 0.0071 0.0039

Neptune 16778-11-04 21:21 G 7849406.23 7849406.39 7849406.54 0.0088 0.0014

Pluto 16779-01-19 07:40 G 7849481.71 7849481.82 7849481.95 0.0071 0.0030

Neptune 16779-01-31 23:16 G 7849494.32 7849494.47 7849494.63 0.0088 0.0022

Pluto 16779-04-17 08:24 G 7849569.73 7849569.85 7849569.98 0.0071 0.0021

Neptune 16779-04-30 01:26 G 7849582.42 7849582.56 7849582.72 0.0088 0.0030

Pluto 16779-07-14 09:07 G 7849657.75 7849657.88 7849658.01 0.0071 0.0011

Neptune 16779-07-27 03:36 G 7849670.51 7849670.65 7849670.80 0.0088 0.0038

Jupiter 16779-09-19 11:31 G 7849724.85 7849724.98 7849725.12 0.0536 0.0245

Pluto 16779-10-10 09:50 G 7849745.78 7849745.91 7849746.04 0.0071 0.0002

Neptune 16779-10-23 05:45 G 7849758.61 7849758.74 7849758.89 0.0088 0.0046

Jupiter 16779-12-18 06:28 G 7849814.71 7849814.77 7849814.83 0.0539 0.0490

Pluto 16780-01-06 10:33 G 7849833.81 7849833.94 7849834.07 0.0071 0.0008

Neptune 16780-01-19 07:55 G 7849846.71 7849846.83 7849846.97 0.0088 0.0054

Mars 16780-03-18 05:31 G 7849905.61 7849905.73 7849905.85 0.1951 0.0470

Pluto 16780-04-03 11:02 G 7849921.84 7849921.96 7849922.10 0.0072 0.0018

Neptune 16780-04-16 10:04 G 7849934.82 7849934.92 7849935.04 0.0088 0.0062

Pluto 16780-06-30 12:00 G 7850009.87 7850010.00 7850010.12 0.0072 0.0027

Neptune 16780-07-13 12:14 G 7850022.93 7850023.01 7850023.12 0.0088 0.0070

Pluto 16780-09-26 12:28 G 7850097.91 7850098.02 7850098.14 0.0072 0.0037

Neptune 16780-10-09 14:24 G 7850111.04 7850111.10 7850111.19 0.0088 0.0078

Pluto 16780-12-23 12:57 G 7850185.95 7850186.04 7850186.16 0.0072 0.0047

Neptune 16781-01-05 16:33 G 7850199.18 7850199.19 7850199.24 0.0088 0.0086

Pluto 16781-03-21 13:40 G 7850274.00 7850274.07 7850274.17 0.0072 0.0057

Pluto 16781-06-17 14:24 G 7850362.07 7850362.10 7850362.16 0.0072 0.0067

Venus 16782-08-13 23:02 G 7850784.37 7850784.46 7850784.56 0.3690 0.1877

Moon 16783-05-02 15:07 G 7851046.02 7851046.13 7851046.23 0.2655 0.1467

Earth 16783-05-02 15:21 G 7851046.04 7851046.14 7851046.25 0.2649 0.1492 *

Saturn 16783-10-22 22:33 G 7851219.34 7851219.44 7851219.54 0.0280 0.0211

Saturn 16784-01-19 14:24 G 7851307.96 7851308.10 7851308.25 0.0279 0.0098

Venus 16784-02-25 07:40 G 7851344.70 7851344.82 7851344.94 0.3681 0.1233

Saturn 16784-04-17 06:00 G 7851396.60 7851396.75 7851396.90 0.0279 0.0012

Saturn 16784-07-14 21:07 G 7851485.24 7851485.38 7851485.52 0.0279 0.0119

Saturn 16784-10-11 11:45 G 7851573.91 7851573.99 7851574.09 0.0279 0.0224

Mars 16784-11-15 22:04 G 7851609.29 7851609.42 7851609.54 0.1587 0.0815

Jupiter 16785-05-06 06:14 G 7851780.63 7851780.76 7851780.90 0.0492 0.0209

Jupiter 16785-08-03 19:26 G 7851870.21 7851870.31 7851870.42 0.0490 0.0365

Earth 16785-10-30 23:02 G 7851958.37 7851958.46 7851958.55 0.2682 0.1992

Moon 16785-10-30 23:16 G 7851958.39 7851958.47 7851958.55 0.2689 0.2050 *

Venus 16788-02-27 17:16 G 7852808.17 7852808.22 7852808.28 0.3691 0.3209

Mars 16789-08-08 10:19 G 7853335.81 7853335.93 7853336.05 0.1950 0.0664

Venus 16789-09-10 07:12 G 7853368.75 7853368.80 7853368.86 0.3680 0.3310

Jupiter 16791-07-08 12:00 G 7854034.91 7854035.00 7854035.08 0.0535 0.0436

Jupiter 16791-10-06 07:26 G 7854124.69 7854124.81 7854124.93 0.0538 0.0306

Mars 16794-04-08 05:02 G 7855039.66 7855039.71 7855039.77 0.1589 0.1469

Mars 16796-03-14 02:24 G 7855745.52 7855745.60 7855745.68 0.1585 0.1318

Jupiter 16797-02-22 08:52 G 7856090.76 7856090.87 7856090.98 0.0493 0.0347

Jupiter 16797-05-22 21:50 G 7856180.27 7856180.41 7856180.54 0.0491 0.0222

Saturn 16798-10-30 12:57 G 7856705.94 7856706.04 7856706.15 0.0279 0.0200

Mars 16798-12-29 14:38 G 7856766.07 7856766.11 7856766.15 0.1948 0.1836

Saturn 16799-01-27 04:04 G 7856794.53 7856794.67 7856794.82 0.0280 0.0094

Saturn 16799-04-25 19:40 G 7856883.16 7856883.32 7856883.47 0.0280 0.0017

Saturn 16799-07-23 11:31 G 7856971.84 7856971.98 7856972.12 0.0280 0.0128

Saturn 16799-10-20 03:36 G 7857060.58 7857060.65 7857060.73 0.0280 0.0244

Uranus 16802-05-11 23:02 G 7857995.39 7857995.46 7857995.54 0.0133 0.0115

Uranus 16802-08-08 03:07 G 7858083.54 7858083.63 7858083.74 0.0133 0.0097

Uranus 16802-11-04 07:26 G 7858171.69 7858171.81 7858171.94 0.0133 0.0078

Uranus 16803-01-31 11:31 G 7858259.85 7858259.98 7858260.13 0.0133 0.0060

Moon 16803-04-28 01:12 G 7858346.46 7858346.55 7858346.64 0.2647 0.1864

Earth 16803-04-28 02:09 G 7858346.49 7858346.59 7858346.69 0.2648 0.1653 *

Uranus 16803-04-29 15:50 G 7858348.02 7858348.16 7858348.31 0.0133 0.0041

Jupiter 16803-07-25 07:55 G 7858434.68 7858434.83 7858434.98 0.0538 0.0118

Uranus 16803-07-26 19:55 G 7858436.19 7858436.33 7858436.48 0.0133 0.0023

Uranus 16803-10-23 00:00 G 7858524.35 7858524.50 7858524.66 0.0133 0.0007

Uranus 16804-01-19 04:04 G 7858612.53 7858612.67 7858612.82 0.0133 0.0014

Uranus 16804-04-16 08:09 G 7858700.70 7858700.84 7858700.99 0.0133 0.0031

Uranus 16804-07-13 12:00 G 7858788.87 7858789.00 7858789.15 0.0133 0.0050

Uranus 16804-10-09 16:19 G 7858877.05 7858877.18 7858877.30 0.0133 0.0067

Uranus 16805-01-05 19:55 G 7858965.23 7858965.33 7858965.45 0.0133 0.0085

Uranus 16805-04-04 00:00 G 7859053.41 7859053.50 7859053.60 0.0133 0.0102

Uranus 16805-07-01 03:50 G 7859141.60 7859141.66 7859141.73 0.0133 0.0119

Mars 16805-08-04 08:52 G 7859175.74 7859175.87 7859176.01 0.1586 0.0630

Moon 16805-10-26 06:00 G 7859258.66 7859258.75 7859258.85 0.2687 0.1769

Earth 16805-10-26 06:57 G 7859258.68 7859258.79 7859258.89 0.2684 0.1567 *

Jupiter 16808-12-11 11:45 G 7860400.96 7860400.99 7860401.02 0.0493 0.0480

Jupiter 16809-03-11 00:14 G 7860490.36 7860490.51 7860490.66 0.0491 0.0084

Mars 16810-04-27 00:43 G 7860902.47 7860902.53 7860902.59 0.1953 0.1689

Saturn 16813-03-10 23:16 G 7861951.40 7861951.47 7861951.55 0.0279 0.0245

Saturn 16813-06-07 15:21 G 7862040.00 7862040.14 7862040.28 0.0279 0.0132

Saturn 16813-09-04 06:57 G 7862128.63 7862128.79 7862128.94 0.0279 0.0022

Saturn 16813-12-01 22:04 G 7862217.28 7862217.42 7862217.57 0.0278 0.0086

Saturn 16814-02-28 12:57 G 7862305.93 7862306.04 7862306.15 0.0278 0.0191

Mars 16814-12-25 15:36 G 7862606.00 7862606.15 7862606.30 0.1587 0.0050

Jupiter 16815-05-13 09:07 G 7862744.73 7862744.88 7862745.03 0.0537 0.0060

Moon 16816-04-29 22:48 G 7863097.32 7863097.45 7863097.57 0.2651 0.0091

Earth 16816-04-29 23:31 G 7863097.36 7863097.48 7863097.61 0.2649 0.0147 *

Venus 16817-01-19 17:45 G 7863362.21 7863362.24 7863362.26 0.3689 0.3548

Moon 16818-10-29 05:02 G 7864009.58 7864009.71 7864009.84 0.2689 0.0377

Earth 16818-10-29 05:31 G 7864009.60 7864009.73 7864009.86 0.2683 0.0390 *

Mars 16819-09-17 05:45 G 7864332.62 7864332.74 7864332.86 0.1951 0.0599

Jupiter 16820-12-28 02:38 G 7864800.46 7864800.61 7864800.76 0.0491 0.0060

Venus 16822-08-05 12:57 G 7865385.95 7865386.04 7865386.14 0.3689 0.1997

Mars 16824-05-16 22:33 G 7866036.31 7866036.44 7866036.57 0.1587 0.0717

Jupiter 16827-03-01 10:19 G 7867054.79 7867054.93 7867055.06 0.0536 0.0238

Jupiter 16827-05-30 05:16 G 7867144.67 7867144.72 7867144.77 0.0539 0.0499

Venus	16828-02-19 07:55 G	7867409.72	7867409.83	7867409.95	0.3690	0.0525
Saturn	16828-03-18 12:43 G	7867437.96	7867438.03	7867438.11	0.0280	0.0241
Saturn	16828-06-15 03:36 G	7867526.52	7867526.65	7867526.79	0.0280	0.0136
Saturn	16828-09-11 18:57 G	7867615.14	7867615.29	7867615.45	0.0280	0.0028
Saturn	16828-12-09 10:48 G	7867703.80	7867703.95	7867704.10	0.0280	0.0084
Mars	16829-02-06 10:33 G	7867762.81	7867762.94	7867763.06	0.1950	0.0557
Saturn	16829-03-08 02:38 G	7867792.51	7867792.61	7867792.73	0.0281	0.0198
Moon	16829-05-02 20:24 G	7867848.26	7867848.35	7867848.44	0.2656	0.1780
Earth	16829-05-02 20:38 G	7867848.27	7867848.36	7867848.45	0.2649	0.1850 *
Venus	16829-09-01 09:21 G	7867969.78	7867969.89	7867969.99	0.3681	0.2050
Earth	16831-11-01 04:33 G	7868760.63	7868760.69	7868760.75	0.2682	0.2406
Moon	16831-11-01 05:02 G	7868760.66	7868760.71	7868760.76	0.2689	0.2445 *
Jupiter	16832-10-16 05:02 G	7869110.58	7869110.71	7869110.85	0.0492	0.0200
Jupiter	16833-01-13 18:14 G	7869200.16	7869200.26	7869200.36	0.0490	0.0373
Venus	16833-09-04 02:52 G	7869433.50	7869433.62	7869433.73	0.3690	0.0928
Mars	16833-10-07 05:31 G	7869466.66	7869466.73	7869466.80	0.1589	0.1373
Venus	16835-03-18 07:55 G	7869993.70	7869993.83	7869993.96	0.3681	0.0182
Mars	16835-09-13 02:52 G	7870172.56	7870172.62	7870172.68	0.1585	0.1426
Mars	16838-06-29 15:07 G	7871193.07	7871193.13	7871193.19	0.1948	0.1703
Jupiter	16838-12-18 10:33 G	7871364.86	7871364.94	7871365.03	0.0535	0.0427
Jupiter	16839-03-18 06:00 G	7871454.64	7871454.75	7871454.87	0.0538	0.0316
Venus	16839-03-20 21:21 G	7871457.30	7871457.39	7871457.47	0.3690	0.2298
Venus	16840-10-01 07:12 G	7872017.69	7872017.80	7872017.91	0.3680	0.1854
Saturn	16842-10-25 16:19 G	7872772.05	7872772.18	7872772.30	0.0280	0.0166
Saturn	16843-01-22 08:09 G	7872860.68	7872860.84	7872860.99	0.0279	0.0054
Saturn	16843-04-20 23:31 G	7872949.33	7872949.48	7872949.63	0.0279	0.0055
Saturn	16843-07-18 14:24 G	7873037.98	7873038.10	7873038.23	0.0279	0.0162
Saturn	16843-10-15 05:02 G	7873126.67	7873126.71	7873126.76	0.0279	0.0265
Uranus	16844-02-12 05:02 G	7873246.63	7873246.71	7873246.79	0.0145	0.0123
Uranus	16844-05-10 10:33 G	7873334.83	7873334.94	7873335.06	0.0145	0.0099

Jupiter	16844-08-04 07:12 G	7873420.69	7873420.80	7873420.90	0.0493	0.0345
Uranus	16844-08-06 16:33 G	7873423.05	7873423.19	7873423.32	0.0145	0.0075
Venus	16844-10-03 15:36 G	7873481.13	7873481.15	7873481.16	0.3691	0.3623
Jupiter	16844-11-01 19:55 G	7873510.20	7873510.33	7873510.47	0.0491	0.0225
Uranus	16844-11-02 22:04 G	7873511.28	7873511.42	7873511.58	0.0145	0.0050
Uranus	16845-01-30 04:04 G	7873599.51	7873599.67	7873599.83	0.0145	0.0025
Mars	16845-02-02 09:21 G	7873602.76	7873602.89	7873603.02	0.1586	0.0729
Uranus	16845-04-28 10:04 G	7873687.76	7873687.92	7873688.08	0.0145	0.0001
Uranus	16845-07-25 16:04 G	7873776.01	7873776.17	7873776.33	0.0145	0.0026
Uranus	16845-10-21 22:04 G	7873864.27	7873864.42	7873864.57	0.0145	0.0052
Uranus	16846-01-18 04:04 G	7873952.53	7873952.67	7873952.81	0.0145	0.0078
Uranus	16846-04-16 10:04 G	7874040.82	7874040.92	7874041.04	0.0145	0.0104
Uranus	16846-07-13 16:19 G	7874129.12	7874129.18	7874129.26	0.0145	0.0130
Moon	16849-04-28 06:28 G	7875148.66	7875148.77	7875148.88	0.2647	0.1337
Earth	16849-04-28 07:40 G	7875148.71	7875148.82	7875148.93	0.2648	0.1277 *
Mars	16849-10-26 00:57 G	7875329.49	7875329.54	7875329.58	0.1952	0.1808
Jupiter	16851-01-04 06:43 G	7875764.64	7875764.78	7875764.92	0.0537	0.0128
Moon	16851-10-27 11:31 G	7876060.86	7876060.98	7876061.09	0.2688	0.1213
Earth	16851-10-27 12:28 G	7876060.90	7876061.02	7876061.13	0.2684	0.1178 *
Mars	16854-06-25 15:50 G	7877033.01	7877033.16	7877033.31	0.1586	0.0052
Jupiter	16856-05-23 09:50 G	7877730.88	7877730.91	7877730.94	0.0494	0.0482
Jupiter	16856-08-20 22:19 G	7877820.28	7877820.43	7877820.58	0.0491	0.0082
Saturn	16857-08-05 15:50 G	7878170.11	7878170.16	7878170.22	0.0279	0.0259
Saturn	16857-11-02 06:43 G	7878258.66	7878258.78	7878258.91	0.0279	0.0155
Saturn	16858-01-29 22:04 G	7878347.27	7878347.42	7878347.57	0.0280	0.0047
Saturn	16858-04-28 13:40 G	7878435.92	7878436.07	7878436.22	0.0280	0.0064
Saturn	16858-07-26 05:45 G	7878524.62	7878524.74	7878524.86	0.0280	0.0177
Neptune	16858-12-14 16:19 G	7878666.13	7878666.18	7878666.23	0.0089	0.0085
Neptune	16859-03-12 18:28 G	7878754.19	7878754.27	7878754.35	0.0089	0.0076
Mars	16859-03-18 05:45 G	7878759.62	7878759.74	7878759.86	0.1952	0.0690

Neptune 16859-06-08 20:38 G 7878842.27 7878842.36 7878842.47 0.0089 0.0068

Neptune 16859-09-04 22:48 G 7878930.34 7878930.45 7878930.58 0.0089 0.0060

Neptune 16859-12-02 01:12 G 7879018.42 7879018.55 7879018.68 0.0089 0.0052

Neptune 16860-02-28 03:21 G 7879106.51 7879106.64 7879106.78 0.0089 0.0044

Neptune 16860-05-26 05:31 G 7879194.59 7879194.73 7879194.88 0.0089 0.0036

Neptune 16860-08-22 07:40 G 7879282.68 7879282.82 7879282.98 0.0089 0.0028

Neptune 16860-11-18 09:50 G 7879370.76 7879370.91 7879371.07 0.0089 0.0020

Neptune 16861-02-14 12:14 G 7879458.85 7879459.01 7879459.16 0.0089 0.0011

Neptune 16861-05-13 14:24 G 7879546.94 7879547.10 7879547.25 0.0089 0.0003

Neptune 16861-08-09 16:33 G 7879635.03 7879635.19 7879635.34 0.0089 0.0005

Neptune 16861-11-05 18:28 G 7879723.12 7879723.27 7879723.43 0.0089 0.0014

Neptune 16862-02-01 20:38 G 7879811.21 7879811.36 7879811.52 0.0089 0.0021

Neptune 16862-04-30 22:33 G 7879899.31 7879899.44 7879899.60 0.0089 0.0030

Moon 16862-05-01 04:04 G 7879899.55 7879899.67 7879899.80 0.2653 0.0338 *

Earth 16862-05-01 04:48 G 7879899.58 7879899.70 7879899.83 0.2649 0.0499 *

Neptune 16862-07-28 00:43 G 7879987.40 7879987.53 7879987.68 0.0089 0.0037

Jupiter 16862-10-23 06:57 G 7880074.64 7880074.79 7880074.94 0.0537 0.0065

Neptune 16862-10-24 02:38 G 7880075.49 7880075.61 7880075.76 0.0089 0.0046

Neptune 16863-01-20 05:02 G 7880163.59 7880163.71 7880163.84 0.0089 0.0053

Neptune 16863-04-18 06:57 G 7880251.69 7880251.79 7880251.91 0.0089 0.0061

Neptune 16863-07-15 08:52 G 7880339.79 7880339.87 7880339.98 0.0089 0.0069

Pluto 16863-09-21 17:45 G 7880408.18 7880408.24 7880408.33 0.0074 0.0068

Neptune 16863-10-11 11:02 G 7880427.89 7880427.96 7880428.05 0.0089 0.0076

Mars 16863-11-15 22:48 G 7880463.31 7880463.45 7880463.58 0.1587 0.0622

Pluto 16863-12-18 20:09 G 7880496.22 7880496.34 7880496.49 0.0073 0.0053

Neptune 16864-01-07 13:12 G 7880516.01 7880516.05 7880516.11 0.0089 0.0084

Pluto 16864-03-15 22:33 G 7880584.29 7880584.44 7880584.62 0.0073 0.0038

Pluto 16864-06-12 00:57 G 7880672.37 7880672.54 7880672.74 0.0073 0.0023

Pluto 16864-09-08 03:36 G 7880760.46 7880760.65 7880760.85 0.0073 0.0007

Moon 16864-10-29 10:48 G 7880811.82 7880811.95 7880812.07 0.2689 0.0690

Earth 16864-10-29 11:02 G 7880811.83 7880811.96 7880812.08 0.2683 0.0789 *

Pluto 16864-12-05 06:00 G 7880848.56 7880848.75 7880848.95 0.0073 0.0008

Pluto 16865-03-03 08:09 G 7880936.67 7880936.84 7880937.03 0.0073 0.0023

Pluto 16865-05-30 10:19 G 7881024.78 7881024.93 7881025.11 0.0073 0.0038

Pluto 16865-08-26 12:43 G 7881112.91 7881113.03 7881113.18 0.0073 0.0052

Pluto 16865-11-22 14:52 G 7881201.06 7881201.12 7881201.22 0.0072 0.0067

Jupiter 16868-06-09 00:57 G 7882130.39 7882130.54 7882130.69 0.0492 0.0056

Mars 16868-08-07 10:48 G 7882189.83 7882189.95 7882190.07 0.1950 0.0427

Saturn 16872-03-13 17:31 G 7883504.12 7883504.23 7883504.35 0.0279 0.0197

Saturn 16872-06-10 09:21 G 7883592.75 7883592.89 7883593.04 0.0279 0.0085

Saturn 16872-09-07 00:57 G 7883681.39 7883681.54 7883681.69 0.0279 0.0025

Saturn 16872-12-04 16:04 G 7883770.04 7883770.17 7883770.30 0.0278 0.0132

Saturn 16873-03-03 06:43 G 7883858.71 7883858.78 7883858.86 0.0278 0.0236

Mars 16873-04-07 05:45 G 7883893.66 7883893.74 7883893.83 0.1589 0.1277

Venus 16873-08-26 16:04 G 7884035.11 7884035.17 7884035.24 0.3689 0.3063

Jupiter 16874-08-11 07:55 G 7884384.70 7884384.83 7884384.96 0.0536 0.0247

Jupiter 16874-11-09 02:52 G 7884474.56 7884474.62 7884474.68 0.0539 0.0491

Mars 16875-03-14 03:21 G 7884599.60 7884599.64 7884599.67 0.1585 0.1526

Moon 16875-05-04 01:40 G 7884650.51 7884650.57 7884650.64 0.2656 0.2227

Earth 16875-05-04 01:55 G 7884650.51 7884650.58 7884650.65 0.2649 0.2204 *

Mars 16877-12-28 15:21 G 7885620.07 7885620.14 7885620.21 0.1948 0.1592

Venus 16879-03-12 11:16 G 7886058.87 7886058.97 7886059.08 0.3689 0.1542

Jupiter 16880-03-28 03:21 G 7886440.50 7886440.64 7886440.78 0.0492 0.0197

Jupiter 16880-06-25 16:33 G 7886530.09 7886530.19 7886530.29 0.0490 0.0375

Venus 16880-09-22 10:19 G 7886618.87 7886618.93 7886618.98 0.3682 0.3300

Mars 16884-08-03 09:50 G 7888029.78 7888029.91 7888030.03 0.1586 0.0835

Venus 16884-09-25 06:14 G 7888082.65 7888082.76 7888082.88 0.3690 0.0142

Earth 16884-10-24 19:26 G 7888112.31 7888112.31 7888112.31 0.2684 0.2684

Uranus 16886-03-05 01:55 G 7888608.55 7888608.58 7888608.62 0.0133 0.0129

Venus 16886-04-08 08:38 G 7888642.74 7888642.86 7888642.98 0.3681 0.1469

Jupiter 16886-05-30 08:52 G 7888694.78 7888694.87 7888694.96 0.0535 0.0426

Uranus 16886-06-01 06:14 G 7888696.68 7888696.76 7888696.85 0.0133 0.0110

Jupiter 16886-08-28 04:19 G 7888784.57 7888784.68 7888784.80 0.0538 0.0319

Uranus 16886-08-28 10:33 G 7888784.83 7888784.94 7888785.05 0.0133 0.0092

Uranus 16886-11-24 14:38 G 7888872.99 7888873.11 7888873.24 0.0133 0.0073

Uranus 16887-02-20 18:57 G 7888961.15 7888961.29 7888961.43 0.0133 0.0055

Saturn 16887-03-22 06:43 G 7888990.68 7888990.78 7888990.89 0.0280 0.0194

Uranus 16887-05-19 23:02 G 7889049.32 7889049.46 7889049.61 0.0133 0.0036

Saturn 16887-06-18 21:50 G 7889079.27 7889079.41 7889079.56 0.0280 0.0088

Uranus 16887-08-16 03:07 G 7889137.49 7889137.63 7889137.79 0.0133 0.0019

Saturn 16887-09-15 13:26 G 7889167.90 7889168.06 7889168.21 0.0280 0.0023

Uranus 16887-11-12 07:12 G 7889225.65 7889225.80 7889225.96 0.0133 0.0005

Saturn 16887-12-13 05:02 G 7889256.58 7889256.71 7889256.85 0.0280 0.0135

Uranus 16888-02-08 11:16 G 7889313.83 7889313.97 7889314.12 0.0133 0.0019

Saturn 16888-03-10 21:21 G 7889345.32 7889345.39 7889345.46 0.0281 0.0249

Uranus 16888-05-06 15:21 G 7889402.00 7889402.14 7889402.29 0.0133 0.0036

Uranus 16888-08-02 19:12 G 7889490.17 7889490.30 7889490.45 0.0133 0.0055

Uranus 16888-10-29 23:16 G 7889578.35 7889578.47 7889578.60 0.0133 0.0072

Uranus 16889-01-26 03:07 G 7889666.53 7889666.63 7889666.75 0.0133 0.0090

Uranus 16889-04-24 07:12 G 7889754.72 7889754.80 7889754.89 0.0133 0.0107

Mars 16889-04-26 00:57 G 7889756.52 7889756.54 7889756.56 0.1952 0.1914

Uranus 16889-07-21 10:48 G 7889842.91 7889842.95 7889843.02 0.0134 0.0125

Venus 16890-04-11 00:57 G 7890106.44 7890106.54 7890106.65 0.3690 0.1361

Venus 16891-10-23 07:26 G 7890666.68 7890666.81 7890666.94 0.3681 0.0464

Jupiter 16892-01-15 05:45 G 7890750.64 7890750.74 7890750.86 0.0493 0.0337

Jupiter 16892-04-13 18:43 G 7890840.15 7890840.28 7890840.41 0.0490 0.0232

Mars 16893-12-24 16:19 G 7891460.03 7891460.18 7891460.33 0.1586 0.0149

Moon 16895-04-29 12:00 G 7891950.88 7891951.00 7891951.11 0.2648 0.1099

Earth 16895-04-29 12:57 G 7891950.92 7891951.04 7891951.16 0.2648 0.0899 *

Venus 16895-10-25 19:26 G 7892130.24 7892130.31 7892130.39 0.3691 0.2719

Venus 16897-05-08 06:57 G 7892690.69 7892690.79 7892690.88 0.3680 0.2500

Moon 16897-10-27 17:02 G 7892863.09 7892863.21 7892863.33 0.2688 0.0967

Earth 16897-10-27 17:45 G 7892863.12 7892863.24 7892863.37 0.2683 0.0778 *

Jupiter 16898-06-16 05:16 G 7893094.58 7893094.72 7893094.86 0.0537 0.0136

Mars 16898-09-16 06:14 G 7893186.64 7893186.76 7893186.87 0.1952 0.0821

Saturn 16901-08-01 18:14 G 7894236.18 7894236.26 7894236.35 0.0280 0.0232

Saturn 16901-10-29 10:19 G 7894324.79 7894324.93 7894325.07 0.0280 0.0119

Saturn 16902-01-26 01:55 G 7894413.43 7894413.58 7894413.74 0.0279 0.0011

Saturn 16902-04-24 17:16 G 7894502.08 7894502.22 7894502.36 0.0279 0.0100

Saturn 16902-07-22 08:09 G 7894590.74 7894590.84 7894590.94 0.0279 0.0206

Mars 16903-05-17 23:02 G 7894890.32 7894890.46 7894890.60 0.1587 0.0527

Jupiter 16903-11-04 07:55 G 7895060.81 7895060.83 7895060.86 0.0494 0.0482

Jupiter 16904-02-01 20:24 G 7895150.20 7895150.35 7895150.50 0.0491 0.0083

Mars 16908-02-07 10:48 G 7896616.83 7896616.95 7896617.08 0.1950 0.0327

Moon 16908-05-02 09:36 G 7896701.78 7896701.90 7896702.02 0.2654 0.0854

Earth 16908-05-02 10:19 G 7896701.81 7896701.93 7896702.05 0.2649 0.0863 *

Jupiter 16910-04-05 05:45 G 7897404.59 7897404.74 7897404.89 0.0536 0.0054

Earth 16910-10-31 16:33 G 7897614.07 7897614.19 7897614.31 0.2683 0.1195

Moon 16910-10-31 16:33 G 7897614.08 7897614.19 7897614.30 0.2690 0.1276 *

Mars 16912-10-07 06:00 G 7898320.66 7898320.75 7898320.85 0.1589 0.1185

Jupiter 16915-11-20 22:48 G 7899460.30 7899460.45 7899460.60 0.0492 0.0060

Saturn 16916-08-09 10:04 G 7899722.83 7899722.92 7899723.02 0.0279 0.0212

Saturn 16916-11-06 01:12 G 7899811.41 7899811.55 7899811.69 0.0279 0.0105

Saturn 16917-02-02 16:33 G 7899900.04 7899900.19 7899900.35 0.0280 0.0007

Saturn 16917-05-02 08:24 G 7899988.71 7899988.85 7899988.99 0.0280 0.0115

Mars 16917-06-29 15:21 G 7900047.06 7900047.14 7900047.23 0.1949 0.1480

Saturn 16917-07-30 00:28 G 7900077.44 7900077.52 7900077.61 0.0280 0.0230

Moon 16921-05-05 07:12 G 7901452.76 7901452.80 7901452.84 0.2656 0.2503

Earth 16921-05-05 07:12 G 7901452.77 7901452.80 7901452.83 0.2649 0.2562 *

Jupiter 16922-01-22 05:45 G 7901714.60 7901714.74 7901714.87 0.0536 0.0253

Jupiter 16922-04-22 00:43 G 7901804.47 7901804.53 7901804.59 0.0539 0.0484

Mars 16924-02-03 10:04 G 7902456.80 7902456.92 7902457.04 0.1586 0.0931

Jupiter 16927-09-09 01:40 G 7903770.43 7903770.57 7903770.70 0.0492 0.0196

Uranus 16927-12-07 06:28 G 7903859.74 7903859.77 7903859.81 0.0145 0.0141

Jupiter 16927-12-07 14:38 G 7903860.02 7903860.11 7903860.21 0.0490 0.0378

Uranus 16928-03-04 12:00 G 7903947.92 7903948.00 7903948.10 0.0145 0.0118

Moon 16928-04-27 19:55 G 7904002.28 7904002.33 7904002.37 0.2645 0.2449

Earth 16928-04-27 20:38 G 7904002.31 7904002.36 7904002.42 0.2648 0.2333 *

Uranus 16928-05-31 17:45 G 7904036.13 7904036.24 7904036.37 0.0145 0.0093

Uranus 16928-08-27 23:45 G 7904124.35 7904124.49 7904124.63 0.0145 0.0068

Uranus 16928-11-24 05:31 G 7904212.58 7904212.73 7904212.89 0.0145 0.0043

Uranus 16929-02-20 11:31 G 7904300.82 7904300.98 7904301.14 0.0145 0.0018

Uranus 16929-05-19 17:16 G 7904389.06 7904389.22 7904389.39 0.0145 0.0008

Uranus 16929-08-15 23:16 G 7904477.31 7904477.47 7904477.63 0.0145 0.0032

Uranus 16929-11-12 05:16 G 7904565.57 7904565.72 7904565.87 0.0145 0.0058

Uranus 16930-02-08 11:16 G 7904653.84 7904653.97 7904654.11 0.0145 0.0084

Venus 16930-04-03 14:38 G 7904708.03 7904708.11 7904708.19 0.3689 0.2585

Uranus 16930-05-07 17:16 G 7904742.13 7904742.22 7904742.34 0.0145 0.0110

Uranus 16930-08-03 23:31 G 7904830.43 7904830.48 7904830.54 0.0145 0.0136

Moon 16930-10-26 23:45 G 7904914.44 7904914.49 7904914.54 0.2686 0.2441

Earth 16930-10-27 00:57 G 7904914.47 7904914.54 7904914.60 0.2684 0.2296 *

Saturn 16930-12-19 20:09 G 7904968.28 7904968.34 7904968.39 0.0279 0.0260

Saturn 16931-03-18 12:00 G 7905056.88 7905057.00 7905057.14 0.0279 0.0146

Saturn 16931-06-15 03:50 G 7905145.51 7905145.66 7905145.82 0.0279 0.0035

Saturn 16931-09-11 19:12 G 7905234.15 7905234.30 7905234.45 0.0279 0.0074

Saturn 16931-12-09 10:04 G 7905322.81 7905322.92 7905323.04 0.0278 0.0180

Mars 16933-06-25 16:33 G 7905887.05 7905887.19 7905887.34 0.1586 0.0246

Jupiter 16933-11-10 06:14 G 7906024.68 7906024.76 7906024.85 0.0535 0.0438

Jupiter 16934-02-08 01:55 G 7906114.46 7906114.58 7906114.70 0.0538 0.0308

Venus 16935-10-18 09:50 G 7906731.80 7906731.91 7906732.02 0.3689 0.1074

Venus 16937-04-30 09:36 G 7907291.81 7907291.90 7907291.98 0.3681 0.2745

Mars 16938-03-18 06:14 G 7907613.65 7907613.76 7907613.87 0.1952 0.0933

Jupiter 16939-06-28 04:04 G 7908080.56 7908080.67 7908080.78 0.0493 0.0335

Jupiter 16939-09-25 16:48 G 7908170.07 7908170.20 7908170.34 0.0490 0.0233

Neptune 16940-06-13 17:02 G 7908432.17 7908432.21 7908432.28 0.0088 0.0082

Neptune 16940-09-09 19:26 G 7908520.23 7908520.31 7908520.39 0.0088 0.0075

Neptune 16940-12-06 21:07 G 7908608.30 7908608.38 7908608.49 0.0088 0.0067

Neptune 16941-03-04 23:31 G 7908696.37 7908696.48 7908696.59 0.0088 0.0059

Moon 16941-04-30 17:16 G 7908753.10 7908753.22 7908753.35 0.2649 0.0610

Earth 16941-04-30 18:14 G 7908753.14 7908753.26 7908753.39 0.2648 0.0530 *

Venus 16941-05-03 04:48 G 7908755.58 7908755.70 7908755.81 0.3690 0.0414

Neptune 16941-06-01 01:26 G 7908784.44 7908784.56 7908784.69 0.0088 0.0052

Neptune 16941-08-28 03:36 G 7908872.52 7908872.65 7908872.79 0.0088 0.0044

Neptune 16941-11-24 05:31 G 7908960.60 7908960.73 7908960.88 0.0088 0.0037

Neptune 16942-02-20 07:40 G 7909048.68 7909048.82 7909048.97 0.0088 0.0029

Neptune 16942-05-19 09:50 G 7909136.76 7909136.91 7909137.06 0.0088 0.0021

Neptune 16942-08-15 12:00 G 7909224.84 7909225.00 7909225.16 0.0088 0.0014

Neptune 16942-11-11 14:09 G 7909312.93 7909313.09 7909313.25 0.0088 0.0006

Venus 16942-11-14 08:09 G 7909315.71 7909315.84 7909315.96 0.3681 0.0890

Mars 16942-11-15 23:31 G 7909317.34 7909317.48 7909317.62 0.1587 0.0426

Neptune 16943-02-07 16:19 G 7909401.02 7909401.18 7909401.33 0.0088 0.0003

Neptune 16943-05-06 18:14 G 7909489.11 7909489.26 7909489.42 0.0088 0.0010

Neptune 16943-08-02 20:24 G 7909577.20 7909577.35 7909577.51 0.0088 0.0018

Neptune 16943-10-29 22:33 G 7909665.29 7909665.44 7909665.60 0.0088 0.0026

Moon 16943-10-29 22:33 G 7909665.31 7909665.44 7909665.57 0.2688 0.0419 *

Earth 16943-10-29 23:16 G 7909665.34 7909665.47 7909665.60 0.2683 0.0381 *

Neptune 16944-01-26 00:43 G 7909753.39 7909753.53 7909753.68 0.0088 0.0033

Neptune 16944-04-23 02:52 G 7909841.48 7909841.62 7909841.77 0.0088 0.0041

Neptune 16944-07-20 05:02 G 7909929.58 7909929.71 7909929.85 0.0088 0.0049

Neptune 16944-10-16 07:12 G 7910017.69 7910017.80 7910017.93 0.0088 0.0057

Neptune	16945-01-12 09:21 G	7910105.79	7910105.89	7910106.01	0.0088	0.0065
Neptune	16945-04-10 11:31 G	7910193.90	7910193.98	7910194.08	0.0088	0.0073
Neptune	16945-07-07 13:40 G	7910282.02	7910282.07	7910282.14	0.0088	0.0081
Jupiter	16945-11-27 03:21 G	7910424.49	7910424.64	7910424.78	0.0538	0.0133
Saturn	16945-12-27 10:33 G	7910454.87	7910454.94	7910455.00	0.0279	0.0249
Saturn	16946-03-26 01:26 G	7910543.43	7910543.56	7910543.69	0.0280	0.0144
Saturn	16946-06-22 16:33 G	7910632.04	7910632.19	7910632.34	0.0280	0.0036
Saturn	16946-09-19 08:09 G	7910720.69	7910720.84	7910720.99	0.0280	0.0075
Venus	16946-11-16 23:16 G	7910779.37	7910779.47	7910779.57	0.3690	0.1791
Saturn	16946-12-17 00:00 G	7910809.39	7910809.50	7910809.62	0.0280	0.0188
Mars	16947-08-08 11:02 G	7911043.84	7911043.96	7911044.09	0.1950	0.0212
Venus	16948-05-30 06:57 G	7911339.67	7911339.79	7911339.92	0.3680	0.1078
Jupiter	16951-04-16 06:43 G	7912390.74	7912390.78	7912390.82	0.0493	0.0473
Jupiter	16951-07-14 19:12 G	7912480.15	7912480.30	7912480.45	0.0491	0.0090
Mars	16952-04-07 06:28 G	7912747.66	7912747.77	7912747.87	0.1588	0.1088
Venus	16952-06-01 17:45 G	7912803.18	7912803.24	7912803.29	0.3691	0.3144
Venus	16953-12-14 06:28 G	7913363.71	7913363.77	7913363.84	0.3680	0.3148
Moon	16954-05-03 14:52 G	7913504.01	7913504.12	7913504.24	0.2655	0.1074
Earth	16954-05-03 15:36 G	7913504.04	7913504.15	7913504.26	0.2649	0.1223 *
Moon	16956-10-31 22:19 G	7914416.32	7914416.43	7914416.53	0.2690	0.1552
Earth	16956-10-31 22:04 G	7914416.32	7914416.42	7914416.52	0.2683	0.1607 *
Mars	16956-12-28 15:36 G	7914474.06	7914474.15	7914474.24	0.1948	0.1359
Jupiter	16957-09-15 04:19 G	7914734.53	7914734.68	7914734.83	0.0536	0.0050
Saturn	16960-08-04 12:43 G	7915788.91	7915789.03	7915789.15	0.0280	0.0182
Saturn	16960-11-01 04:33 G	7915877.54	7915877.69	7915877.85	0.0279	0.0070
Saturn	16961-01-28 20:09 G	7915966.19	7915966.34	7915966.49	0.0279	0.0040
Saturn	16961-04-27 11:16 G	7916054.84	7916054.97	7916055.10	0.0279	0.0147
Saturn	16961-07-25 02:09 G	7916143.52	7916143.59	7916143.65	0.0279	0.0251
Jupiter	16963-05-02 20:52 G	7916790.22	7916790.37	7916790.52	0.0492	0.0061
Mars	16963-08-04 10:19 G	7916883.82	7916883.93	7916884.04	0.1585	0.1032

Jupiter 16969-07-04 04:33 G 7919044.56 7919044.69 7919044.82 0.0535 0.0240

Jupiter 16969-10-01 23:31 G 7919134.43 7919134.48 7919134.54 0.0538 0.0495

Uranus 16970-03-26 08:38 G 7919309.83 7919309.86 7919309.93 0.0133 0.0125

Uranus 16970-06-22 13:12 G 7919397.96 7919398.05 7919398.15 0.0133 0.0106

Uranus 16970-09-18 17:31 G 7919486.12 7919486.23 7919486.35 0.0133 0.0087

Uranus 16970-12-15 21:36 G 7919574.28 7919574.40 7919574.54 0.0133 0.0069

Uranus 16971-03-14 01:55 G 7919662.44 7919662.58 7919662.72 0.0133 0.0050

Uranus 16971-06-10 06:00 G 7919750.61 7919750.75 7919750.90 0.0133 0.0032

Uranus 16971-09-06 10:19 G 7919838.78 7919838.93 7919839.08 0.0133 0.0014

Uranus 16971-12-03 14:24 G 7919926.95 7919927.10 7919927.25 0.0133 0.0005

Uranus 16972-02-29 18:28 G 7920015.12 7920015.27 7920015.41 0.0133 0.0023

Uranus 16972-05-27 22:19 G 7920103.29 7920103.43 7920103.58 0.0133 0.0041

Uranus 16972-08-24 02:24 G 7920191.47 7920191.60 7920191.73 0.0133 0.0058

Uranus 16972-11-20 06:28 G 7920279.65 7920279.77 7920279.89 0.0133 0.0076

Mars 16972-12-24 16:48 G 7920314.06 7920314.20 7920314.35 0.1586 0.0344

Uranus 16973-02-16 10:04 G 7920367.83 7920367.92 7920368.04 0.0133 0.0094

Uranus 16973-05-15 14:09 G 7920456.01 7920456.09 7920456.17 0.0134 0.0111

Uranus 16973-08-11 17:45 G 7920544.22 7920544.24 7920544.29 0.0134 0.0129

Moon 16974-04-29 01:12 G 7920804.47 7920804.55 7920804.63 0.2645 0.2087

Earth 16974-04-29 02:09 G 7920804.50 7920804.59 7920804.67 0.2648 0.1951 *

Jupiter 16975-02-18 23:16 G 7921100.34 7921100.47 7921100.61 0.0493 0.0202

Saturn 16975-05-16 13:40 G 7921187.03 7921187.07 7921187.12 0.0279 0.0266

Jupiter 16975-05-19 12:28 G 7921189.92 7921190.02 7921190.12 0.0490 0.0373

Saturn 16975-08-13 04:33 G 7921275.57 7921275.69 7921275.82 0.0279 0.0162

Saturn 16975-11-09 19:55 G 7921364.18 7921364.33 7921364.48 0.0280 0.0055

Saturn 16976-02-06 11:16 G 7921452.82 7921452.97 7921453.13 0.0280 0.0056

Saturn 16976-05-05 03:07 G 7921541.51 7921541.63 7921541.76 0.0280 0.0169

Moon 16976-10-27 05:16 G 7921716.64 7921716.72 7921716.80 0.2686 0.2064

Earth 16976-10-27 06:14 G 7921716.67 7921716.76 7921716.85 0.2684 0.1912 *

Mars 16977-09-16 06:28 G 7922040.66 7922040.77 7922040.87 0.1952 0.1039

Jupiter 16981-04-22 04:04 G 7923354.59 7923354.67 7923354.75 0.0535 0.0444

Venus 16981-04-24 17:45 G 7923357.23 7923357.24 7923357.25 0.3689 0.3663

Jupiter 16981-07-20 23:45 G 7923444.37 7923444.49 7923444.61 0.0538 0.0301

Mars 16982-05-16 23:45 G 7923744.34 7923744.49 7923744.63 0.1587 0.0331

Venus 16986-11-08 13:12 G 7925380.95 7925381.05 7925381.14 0.3689 0.2112

Jupiter 16986-12-08 02:09 G 7925410.49 7925410.59 7925410.70 0.0493 0.0336

Mars 16987-02-06 11:16 G 7925470.85 7925470.97 7925471.10 0.1951 0.0096

Jupiter 16987-03-07 15:07 G 7925499.99 7925500.13 7925500.26 0.0491 0.0233

Moon 16987-05-01 22:48 G 7925555.32 7925555.45 7925555.57 0.2651 0.0292

Earth 16987-05-01 23:31 G 7925555.36 7925555.48 7925555.61 0.2648 0.0181 *

Moon 16989-10-30 04:19 G 7926467.55 7926467.68 7926467.81 0.2689 0.0085

Earth 16989-10-30 04:48 G 7926467.57 7926467.70 7926467.83 0.2683 0.0030 *

Saturn 16989-12-22 14:52 G 7926521.02 7926521.12 7926521.23 0.0279 0.0206

Saturn 16990-03-21 06:57 G 7926609.65 7926609.79 7926609.94 0.0279 0.0093

Saturn 16990-06-17 22:33 G 7926698.29 7926698.44 7926698.59 0.0279 0.0017

Saturn 16990-09-14 13:40 G 7926786.94 7926787.07 7926787.21 0.0279 0.0124

Saturn 16990-12-12 04:19 G 7926875.61 7926875.68 7926875.77 0.0278 0.0229

Mars 16991-10-07 06:43 G 7927174.67 7927174.78 7927174.89 0.1589 0.0992

Venus 16992-05-24 08:09 G 7927404.73 7927404.84 7927404.95 0.3689 0.0609

Jupiter 16993-05-09 00:43 G 7927754.39 7927754.53 7927754.68 0.0537 0.0121

Venus 16993-12-05 08:52 G 7927964.77 7927964.87 7927964.97 0.3681 0.2174

Mars 16996-06-28 15:50 G 7928901.07 7928901.16 7928901.26 0.1948 0.1241

Venus 16997-12-08 03:07 G 7929428.51 7929428.63 7929428.74 0.3690 0.0845

Jupiter 16998-09-26 04:48 G 7929720.67 7929720.70 7929720.74 0.0494 0.0474

Jupiter 16998-12-24 17:16 G 7929810.07 7929810.22 7929810.37 0.0491 0.0089

Venus 16999-06-21 07:26 G 7929988.68 7929988.81 7929988.94 0.3681 0.0297

Moon 17000-05-04 20:09 G 7930306.25 7930306.34 7930306.44 0.2655 0.1581

Earth 17000-05-04 20:52 G 7930306.27 7930306.37 7930306.47 0.2649 0.1584 *

18TH MILLENNIUM CE

This is a list of transits of Mercury in the 18th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	**17002-11-03 03:36**	**G**	**7931218.57**	**7931218.65**	**7931218.74**	**0.2682**	**0.2017**	
Moon	**17002-11-03 03:50**	**G**	**7931218.58**	**7931218.66**	**7931218.74**	**0.2690**	**0.2119**	*****
Mars	**17003-02-03 10:48**	**G**	**7931310.84**	**7931310.95**	**7931311.05**	**0.1586**	**0.1135**	
Venus	**17003-06-24 21:36**	**G**	**7931452.31**	**7931452.40**	**7931452.49**	**0.3690**	**0.2224**	
Saturn	**17004-12-31 05:02**	**G**	**7932007.61**	**7932007.71**	**7932007.82**	**0.0280**	**0.0198**	
Venus	**17005-01-05 06:43**	**G**	**7932012.66**	**7932012.78**	**7932012.89**	**0.3680**	**0.1709**	
Jupiter	**17005-02-26 01:55**	**G**	**7932064.43**	**7932064.58**	**7932064.73**	**0.0537**	**0.0057**	
Saturn	**17005-03-29 20:09**	**G**	**7932096.19**	**7932096.34**	**7932096.48**	**0.0280**	**0.0092**	
Saturn	**17005-06-26 11:31**	**G**	**7932184.82**	**7932184.98**	**7932185.13**	**0.0280**	**0.0017**	
Saturn	**17005-09-23 03:07**	**G**	**7932273.50**	**7932273.63**	**7932273.77**	**0.0280**	**0.0129**	
Saturn	**17005-12-20 19:12**	**G**	**7932362.23**	**7932362.30**	**7932362.38**	**0.0280**	**0.0244**	
Venus	**17009-01-07 15:50**	**G**	**7933476.14**	**7933476.16**	**7933476.19**	**0.3691**	**0.3562**	
Jupiter	**17010-10-13 19:40**	**G**	**7934120.17**	**7934120.32**	**7934120.47**	**0.0492**	**0.0053**	
Uranus	**17011-12-28 13:26**	**G**	**7934561.02**	**7934561.06**	**7934561.12**	**0.0145**	**0.0136**	
Uranus	**17012-03-25 18:57**	**G**	**7934649.20**	**7934649.29**	**7934649.40**	**0.0145**	**0.0112**	
Uranus	**17012-06-22 00:57**	**G**	**7934737.41**	**7934737.54**	**7934737.67**	**0.0145**	**0.0087**	
Mars	**17012-06-25 17:16**	**G**	**7934741.08**	**7934741.22**	**7934741.36**	**0.1586**	**0.0446**	
Uranus	**17012-09-18 06:43**	**G**	**7934825.64**	**7934825.78**	**7934825.93**	**0.0145**	**0.0063**	
Uranus	**17012-12-15 12:28**	**G**	**7934913.87**	**7934914.02**	**7934914.18**	**0.0145**	**0.0038**	
Uranus	**17013-03-13 18:28**	**G**	**7935002.11**	**7935002.27**	**7935002.43**	**0.0145**	**0.0013**	

Uranus 17013-06-10 00:14 G 7935090.35 7935090.51 7935090.68 0.0145 0.0013

Uranus 17013-09-06 06:14 G 7935178.61 7935178.76 7935178.92 0.0145 0.0038

Uranus 17013-12-03 12:14 G 7935266.87 7935267.01 7935267.16 0.0145 0.0064

Uranus 17014-03-01 18:28 G 7935355.14 7935355.27 7935355.40 0.0145 0.0089

Uranus 17014-05-29 00:28 G 7935443.42 7935443.52 7935443.62 0.0145 0.0115

Uranus 17014-08-25 06:43 G 7935531.75 7935531.78 7935531.81 0.0145 0.0141

Jupiter 17016-12-15 02:52 G 7936374.48 7936374.62 7936374.75 0.0536 0.0237

Jupiter 17017-03-14 21:50 G 7936464.36 7936464.41 7936464.47 0.0538 0.0499

Mars 17017-03-18 06:43 G 7936467.68 7936467.78 7936467.88 0.1952 0.1160

Saturn 17019-05-12 15:07 G 7937253.06 7937253.13 7937253.21 0.0280 0.0245

Saturn 17019-08-09 07:26 G 7937341.67 7937341.81 7937341.95 0.0280 0.0131

Saturn 17019-11-05 23:02 G 7937430.31 7937430.46 7937430.62 0.0279 0.0020

Saturn 17020-02-02 14:24 G 7937518.96 7937519.10 7937519.25 0.0279 0.0089

Moon 17020-04-30 06:43 G 7937606.68 7937606.78 7937606.87 0.2645 0.1655

Earth 17020-04-30 07:26 G 7937606.71 7937606.81 7937606.92 0.2648 0.1568 *

Saturn 17020-05-01 05:16 G 7937607.62 7937607.72 7937607.83 0.0279 0.0195

Mars 17021-11-16 00:00 G 7938171.35 7938171.50 7938171.64 0.1587 0.0235

Jupiter 17022-08-01 21:21 G 7938430.26 7938430.39 7938430.53 0.0493 0.0203

Moon 17022-10-29 10:33 G 7938518.84 7938518.94 7938519.05 0.2686 0.1639

Earth 17022-10-29 11:45 G 7938518.88 7938518.99 7938519.09 0.2684 0.1525 *

Jupiter 17022-10-30 10:33 G 7938519.84 7938519.94 7938520.04 0.0490 0.0371

Neptune 17023-06-16 13:26 G 7938749.06 7938749.06 7938749.07 0.0089 0.0089

Neptune 17023-09-12 15:50 G 7938837.09 7938837.16 7938837.22 0.0089 0.0081

Neptune 17023-12-09 18:00 G 7938925.16 7938925.25 7938925.34 0.0089 0.0072

Pluto 17023-12-30 19:55 G 7938946.31 7938946.33 7938946.36 0.0071 0.0069

Neptune 17024-03-06 20:09 G 7939013.24 7939013.34 7939013.46 0.0089 0.0064

Pluto 17024-03-27 20:38 G 7939034.30 7939034.36 7939034.43 0.0071 0.0060

Neptune 17024-06-02 22:19 G 7939101.32 7939101.43 7939101.56 0.0089 0.0056

Pluto 17024-06-23 21:07 G 7939122.30 7939122.38 7939122.48 0.0071 0.0051

Neptune 17024-08-30 00:43 G 7939189.40 7939189.53 7939189.66 0.0089 0.0048

Pluto 17024-09-19 21:50 G 7939210.31 7939210.41 7939210.52 0.0071 0.0042

Neptune 17024-11-26 02:52 G 7939277.48 7939277.62 7939277.77 0.0089 0.0040

Pluto 17024-12-16 22:33 G 7939298.33 7939298.44 7939298.56 0.0071 0.0032

Neptune 17025-02-22 05:02 G 7939365.57 7939365.71 7939365.86 0.0089 0.0032

Pluto 17025-03-14 23:16 G 7939386.35 7939386.47 7939386.60 0.0071 0.0023

Neptune 17025-05-21 07:12 G 7939453.65 7939453.80 7939453.96 0.0089 0.0024

Pluto 17025-06-11 00:00 G 7939474.37 7939474.50 7939474.63 0.0071 0.0013

Neptune 17025-08-17 09:21 G 7939541.74 7939541.89 7939542.05 0.0089 0.0016

Pluto 17025-09-07 00:43 G 7939562.40 7939562.53 7939562.66 0.0071 0.0004

Neptune 17025-11-13 11:45 G 7939629.83 7939629.99 7939630.14 0.0089 0.0007

Pluto 17025-12-04 01:26 G 7939650.42 7939650.56 7939650.69 0.0071 0.0006

Neptune 17026-02-09 13:55 G 7939717.92 7939718.08 7939718.24 0.0089 0.0001

Pluto 17026-03-02 01:55 G 7939738.46 7939738.58 7939738.72 0.0072 0.0016

Neptune 17026-05-08 16:04 G 7939806.01 7939806.17 7939806.32 0.0089 0.0009

Pluto 17026-05-29 02:38 G 7939826.49 7939826.61 7939826.74 0.0072 0.0025

Neptune 17026-08-04 18:00 G 7939894.10 7939894.25 7939894.41 0.0089 0.0017

Mars 17026-08-08 11:31 G 7939897.85 7939897.98 7939898.11 0.1950 0.0028

Pluto 17026-08-25 03:21 G 7939914.53 7939914.64 7939914.76 0.0072 0.0035

Neptune 17026-10-31 20:09 G 7939982.19 7939982.34 7939982.49 0.0089 0.0025

Pluto 17026-11-21 03:50 G 7940002.57 7940002.66 7940002.78 0.0072 0.0045

Neptune 17027-01-27 22:04 G 7940070.29 7940070.42 7940070.58 0.0089 0.0034

Pluto 17027-02-17 04:33 G 7940090.62 7940090.69 7940090.79 0.0072 0.0055

Neptune 17027-04-26 00:14 G 7940158.38 7940158.51 7940158.66 0.0089 0.0041

Pluto 17027-05-16 05:16 G 7940178.68 7940178.72 7940178.79 0.0072 0.0065

Neptune 17027-07-23 02:38 G 7940246.48 7940246.61 7940246.74 0.0089 0.0049

Neptune 17027-10-19 04:33 G 7940334.58 7940334.69 7940334.81 0.0089 0.0057

Neptune 17028-01-15 06:28 G 7940422.67 7940422.77 7940422.89 0.0089 0.0065

Neptune 17028-04-12 08:24 G 7940510.78 7940510.85 7940510.96 0.0089 0.0073

Neptune 17028-07-09 10:33 G 7940598.89 7940598.94 7940599.02 0.0089 0.0080

Jupiter 17028-10-03 02:52 G 7940684.54 7940684.62 7940684.72 0.0535 0.0431

Neptune 17028-10-05 12:43 G 7940687.01 7940687.03 7940687.06 0.0089 0.0088

Jupiter 17028-12-31 22:33 G 7940774.32 7940774.44 7940774.56 0.0538 0.0313

Mars 17031-04-08 06:57 G 7941601.67 7941601.79 7941601.91 0.1588 0.0900

Moon 17033-05-03 04:04 G 7942357.54 7942357.67 7942357.80 0.2652 0.0095

Earth 17033-05-03 05:02 G 7942357.58 7942357.71 7942357.83 0.2648 0.0228 *

Saturn 17034-05-20 08:09 G 7942739.75 7942739.84 7942739.94 0.0279 0.0217

Jupiter 17034-05-21 00:00 G 7942740.39 7942740.50 7942740.61 0.0493 0.0342

Saturn 17034-08-16 23:02 G 7942828.33 7942828.46 7942828.61 0.0279 0.0112

Jupiter 17034-08-18 12:43 G 7942829.90 7942830.03 7942830.17 0.0491 0.0227

Saturn 17034-11-13 14:38 G 7942916.95 7942917.11 7942917.26 0.0280 0.0007

Saturn 17035-02-10 06:14 G 7943005.62 7943005.76 7943005.90 0.0280 0.0109

Saturn 17035-05-09 22:19 G 7943094.34 7943094.43 7943094.53 0.0280 0.0223

Moon 17035-11-01 09:50 G 7943269.79 7943269.91 7943270.04 0.2690 0.0385

Earth 17035-11-01 10:19 G 7943269.80 7943269.93 7943270.05 0.2683 0.0424 *

Mars 17035-12-29 16:04 G 7943328.06 7943328.17 7943328.27 0.1949 0.1135

Venus 17037-11-30 16:19 G 7944030.12 7944030.18 7944030.24 0.3689 0.3174

Mars 17040-08-28 14:09 G 7945032.06 7945032.09 7945032.11 0.1590 0.1552

Jupiter 17040-10-19 22:33 G 7945084.29 7945084.44 7945084.58 0.0537 0.0114

Mars 17042-08-04 11:02 G 7945737.87 7945737.96 7945738.05 0.1585 0.1236

Venus 17043-06-16 11:31 G 7946053.88 7946053.98 7946054.09 0.3689 0.1634

Venus 17044-12-27 09:50 G 7946613.87 7946613.91 7946613.96 0.3682 0.3422

Jupiter 17046-03-09 02:52 G 7947050.59 7947050.62 7947050.66 0.0494 0.0476

Moon 17046-05-06 01:40 G 7947108.49 7947108.57 7947108.66 0.2655 0.1871

Earth 17046-05-06 02:09 G 7947108.50 7947108.59 7947108.67 0.2649 0.1944 *

Jupiter 17046-06-06 15:21 G 7947139.99 7947140.14 7947140.29 0.0491 0.0089

Saturn 17048-09-28 18:00 G 7947985.20 7947985.25 7947985.29 0.0279 0.0266

Earth 17048-11-03 09:07 G 7948020.83 7948020.88 7948020.93 0.2682 0.2428

Moon 17048-11-03 09:21 G 7948020.84 7948020.89 7948020.95 0.2689 0.2430 *

Saturn 17048-12-26 10:04 G 7948073.79 7948073.92 7948074.05 0.0279 0.0152

Venus 17048-12-30 06:28 G 7948077.66 7948077.77 7948077.89 0.3690 0.0182

Saturn	17049-03-25 01:55 G	7948162.42	7948162.58	7948162.73	0.0279	0.0041
Saturn	17049-06-21 17:16 G	7948251.07	7948251.22	7948251.37	0.0279	0.0068
Saturn	17049-09-18 08:09 G	7948339.73	7948339.84	7948339.96	0.0279	0.0174
Saturn	17049-12-15 22:48 G	7948428.44	7948428.45	7948428.47	0.0278	0.0277
Venus	17050-07-13 08:09 G	7948637.73	7948637.84	7948637.95	0.3681	0.1605
Mars	17051-12-25 17:31 G	7949168.09	7949168.23	7949168.37	0.1586	0.0546
Jupiter	17052-08-07 23:16 G	7949394.32	7949394.47	7949394.62	0.0537	0.0070
Uranus	17054-04-16 15:50 G	7950011.11	7950011.16	7950011.24	0.0133	0.0120
Uranus	17054-07-13 20:09 G	7950099.25	7950099.34	7950099.45	0.0133	0.0102
Venus	17054-07-16 01:12 G	7950101.45	7950101.55	7950101.66	0.3690	0.1287
Uranus	17054-10-10 00:43 G	7950187.41	7950187.53	7950187.65	0.0133	0.0083
Uranus	17055-01-06 04:48 G	7950275.57	7950275.70	7950275.84	0.0133	0.0064
Uranus	17055-04-04 09:07 G	7950363.73	7950363.88	7950364.02	0.0133	0.0046
Uranus	17055-07-01 13:12 G	7950451.90	7950452.05	7950452.20	0.0133	0.0027
Uranus	17055-09-27 17:16 G	7950540.07	7950540.22	7950540.37	0.0133	0.0009
Uranus	17055-12-24 21:21 G	7950628.24	7950628.39	7950628.54	0.0133	0.0009
Venus	17056-01-27 06:57 G	7950661.66	7950661.79	7950661.92	0.3681	0.0316
Uranus	17056-03-22 01:26 G	7950716.41	7950716.56	7950716.71	0.0133	0.0027
Uranus	17056-06-18 05:16 G	7950804.59	7950804.72	7950804.87	0.0133	0.0046
Uranus	17056-09-14 09:21 G	7950892.76	7950892.89	7950893.03	0.0133	0.0063
Mars	17056-09-16 06:57 G	7950894.69	7950894.79	7950894.88	0.1952	0.1279
Uranus	17056-12-11 13:12 G	7950980.94	7950981.05	7950981.18	0.0133	0.0081
Uranus	17057-03-09 17:02 G	7951069.13	7951069.21	7951069.32	0.0133	0.0099
Uranus	17057-06-05 21:07 G	7951157.32	7951157.38	7951157.46	0.0134	0.0116
Uranus	17057-09-02 00:57 G	7951245.54	7951245.54	7951245.56	0.0134	0.0133
Jupiter	17058-03-25 17:45 G	7951450.09	7951450.24	7951450.39	0.0492	0.0053
Venus	17060-01-29 19:40 G	7952125.25	7952125.32	7952125.40	0.3691	0.2648
Mars	17061-05-17 00:28 G	7952598.37	7952598.52	7952598.66	0.1587	0.0141
Venus	17061-08-12 06:14 G	7952685.66	7952685.76	7952685.86	0.3680	0.2334
Saturn	17063-10-07 08:52 G	7953471.81	7953471.87	7953471.93	0.0279	0.0252

Saturn 17064-01-03 23:31 G 7953560.36 7953560.48 7953560.61 0.0280 0.0148

Saturn 17064-04-01 14:52 G 7953648.97 7953649.12 7953649.27 0.0280 0.0040

Jupiter 17064-05-27 00:28 G 7953704.38 7953704.52 7953704.65 0.0536 0.0249

Saturn 17064-06-29 06:14 G 7953737.62 7953737.76 7953737.92 0.0280 0.0071

Jupiter 17064-08-24 19:26 G 7953794.26 7953794.31 7953794.38 0.0539 0.0491

Saturn 17064-09-25 22:19 G 7953826.31 7953826.43 7953826.55 0.0280 0.0183

Mars 17066-02-06 11:31 G 7954324.86 7954324.98 7954325.11 0.1951 0.0156

Moon 17066-05-01 12:00 G 7954408.89 7954409.00 7954409.11 0.2647 0.1374

Earth 17066-05-01 12:57 G 7954408.92 7954409.04 7954409.15 0.2648 0.1189 *

Moon 17068-10-29 16:19 G 7955321.06 7955321.18 7955321.29 0.2687 0.1300

Earth 17068-10-29 17:02 G 7955321.10 7955321.21 7955321.33 0.2684 0.1134 *

Jupiter 17070-01-11 20:09 G 7955760.21 7955760.34 7955760.48 0.0492 0.0194

Jupiter 17070-04-11 09:21 G 7955849.79 7955849.89 7955849.98 0.0490 0.0379

Mars 17070-10-07 07:12 G 7956028.68 7956028.80 7956028.93 0.1588 0.0803

Mars 17075-06-29 16:19 G 7957755.07 7957755.18 7957755.29 0.1949 0.1004

Jupiter 17076-03-15 01:12 G 7958014.46 7958014.55 7958014.64 0.0535 0.0429

Jupiter 17076-06-12 20:52 G 7958104.25 7958104.37 7958104.49 0.0538 0.0316

Saturn 17078-05-15 10:19 G 7958805.81 7958805.93 7958806.04 0.0279 0.0191

Saturn 17078-08-12 02:09 G 7958894.44 7958894.59 7958894.74 0.0279 0.0078

Saturn 17078-11-08 17:45 G 7958983.08 7958983.24 7958983.39 0.0279 0.0032

Saturn 17079-02-05 08:52 G 7959071.74 7959071.87 7959072.00 0.0279 0.0139

Moon 17079-05-04 09:21 G 7959159.77 7959159.89 7959160.02 0.2652 0.0503

Earth 17079-05-04 10:19 G 7959159.81 7959159.93 7959160.05 0.2649 0.0589 *

Saturn 17079-05-04 23:45 G 7959160.42 7959160.49 7959160.56 0.0279 0.0243

Mars 17080-02-27 14:09 G 7959459.04 7959459.09 7959459.15 0.1590 0.1462

Jupiter 17081-10-30 22:04 G 7960070.32 7960070.42 7960070.53 0.0493 0.0342

Moon 17081-11-01 15:21 G 7960072.02 7960072.14 7960072.27 0.2690 0.0806

Earth 17081-11-01 15:50 G 7960072.03 7960072.16 7960072.28 0.2683 0.0824 *

Jupiter 17082-01-28 10:48 G 7960159.82 7960159.95 7960160.09 0.0491 0.0227

Mars 17082-02-02 11:16 G 7960164.90 7960164.97 7960165.05 0.1585 0.1337

Jupiter 17088-03-31 21:36 G 7962414.26 7962414.40 7962414.55 0.0537 0.0129

Mars 17091-06-25 17:45 G 7963595.11 7963595.24 7963595.38 0.1586 0.0643

Moon 17092-05-06 07:12 G 7963910.75 7963910.80 7963910.86 0.2656 0.2312

Earth 17092-05-06 07:26 G 7963910.75 7963910.81 7963910.87 0.2649 0.2305 *

Saturn 17093-02-23 11:31 G 7964203.96 7964203.98 7964204.02 0.0279 0.0273

Saturn 17093-05-23 02:24 G 7964292.48 7964292.60 7964292.72 0.0279 0.0168

Jupiter 17093-08-19 00:43 G 7964380.51 7964380.53 7964380.57 0.0494 0.0481

Saturn 17093-08-19 17:31 G 7964381.09 7964381.23 7964381.38 0.0280 0.0062

Saturn 17093-11-16 09:07 G 7964469.73 7964469.88 7964470.03 0.0280 0.0049

Jupiter 17093-11-16 13:12 G 7964469.90 7964470.05 7964470.20 0.0491 0.0083 *

Saturn 17094-02-13 00:57 G 7964558.42 7964558.54 7964558.67 0.0280 0.0162

Saturn 17094-05-12 17:16 G 7964647.20 7964647.22 7964647.24 0.0280 0.0277

Venus 17094-07-07 14:38 G 7964703.04 7964703.11 7964703.19 0.3689 0.2693

Uranus 17096-01-17 20:24 G 7965262.30 7965262.35 7965262.43 0.0145 0.0131

Mars 17096-03-17 06:43 G 7965321.70 7965321.78 7965321.87 0.1952 0.1376

Uranus 17096-04-15 02:09 G 7965350.49 7965350.59 7965350.70 0.0145 0.0107

Uranus 17096-07-12 07:55 G 7965438.70 7965438.83 7965438.97 0.0145 0.0082

Uranus 17096-10-08 13:40 G 7965526.93 7965527.07 7965527.22 0.0145 0.0058

Uranus 17097-01-04 19:26 G 7965615.16 7965615.31 7965615.47 0.0145 0.0033

Uranus 17097-04-03 01:26 G 7965703.40 7965703.56 7965703.72 0.0145 0.0008

Uranus 17097-06-30 07:12 G 7965791.64 7965791.80 7965791.97 0.0145 0.0018

Uranus 17097-09-26 13:12 G 7965879.90 7965880.05 7965880.21 0.0145 0.0043

Uranus 17097-12-23 19:12 G 7965968.16 7965968.30 7965968.45 0.0145 0.0069

Uranus 17098-03-22 01:12 G 7966056.43 7966056.55 7966056.68 0.0145 0.0094

Uranus 17098-06-18 07:26 G 7966144.72 7966144.81 7966144.90 0.0145 0.0120

Earth 17099-04-29 20:38 G 7966460.35 7966460.36 7966460.37 0.2648 0.2633

Jupiter 17100-01-18 21:07 G 7966724.24 7966724.38 7966724.53 0.0536 0.0076

Venus 17100-01-21 09:50 G 7966726.80 7966726.91 7966727.02 0.3690 0.1176

Mars 17100-11-16 00:43 G 7967025.38 7967025.53 7967025.67 0.1587 0.0050

Venus 17101-08-04 09:07 G 7967286.80 7967286.88 7967286.95 0.3682 0.2880

Earth 17101-10-29 00:14 G 7967372.49 7967372.51 7967372.53 0.2684 0.2635

Neptune 17104-12-14 14:24 G 7968515.09 7968515.10 7968515.15 0.0088 0.0086

Neptune 17105-03-12 16:48 G 7968603.13 7968603.20 7968603.27 0.0088 0.0078

Neptune 17105-06-08 18:28 G 7968691.20 7968691.27 7968691.38 0.0088 0.0071

Venus 17105-08-07 04:48 G 7968750.59 7968750.70 7968750.82 0.3690 0.0329

Mars 17105-08-08 12:00 G 7968751.87 7968752.00 7968752.12 0.1951 0.0269

Neptune 17105-09-04 20:52 G 7968779.27 7968779.37 7968779.48 0.0088 0.0063

Jupiter 17105-09-05 15:50 G 7968780.01 7968780.16 7968780.31 0.0492 0.0054

Neptune 17105-12-01 22:33 G 7968867.34 7968867.44 7968867.58 0.0088 0.0057

Neptune 17106-02-28 00:57 G 7968955.41 7968955.54 7968955.67 0.0088 0.0048

Neptune 17106-05-27 03:07 G 7969043.49 7969043.63 7969043.77 0.0088 0.0041

Neptune 17106-08-23 05:02 G 7969131.57 7969131.71 7969131.86 0.0088 0.0033

Neptune 17106-11-19 07:12 G 7969219.65 7969219.80 7969219.95 0.0088 0.0025

Neptune 17107-02-15 09:21 G 7969307.73 7969307.89 7969308.04 0.0088 0.0018

Venus 17107-02-18 07:26 G 7969310.69 7969310.81 7969310.94 0.3681 0.1028

Neptune 17107-05-14 11:16 G 7969395.82 7969395.97 7969396.13 0.0088 0.0010

Neptune 17107-08-10 13:26 G 7969483.90 7969484.06 7969484.22 0.0088 0.0002

Saturn 17107-10-03 12:57 G 7969537.94 7969538.04 7969538.14 0.0279 0.0211

Neptune 17107-11-06 15:36 G 7969571.99 7969572.15 7969572.31 0.0088 0.0006

Saturn 17107-12-31 04:48 G 7969626.56 7969626.70 7969626.85 0.0279 0.0099

Neptune 17108-02-02 17:31 G 7969660.08 7969660.23 7969660.40 0.0088 0.0015

Saturn 17108-03-28 20:38 G 7969715.20 7969715.36 7969715.51 0.0279 0.0013

Neptune 17108-04-30 19:55 G 7969748.17 7969748.33 7969748.48 0.0088 0.0021

Saturn 17108-06-25 11:45 G 7969803.85 7969803.99 7969804.13 0.0279 0.0119

Neptune 17108-07-27 22:04 G 7969836.27 7969836.42 7969836.57 0.0088 0.0029

Saturn 17108-09-22 02:38 G 7969892.52 7969892.61 7969892.70 0.0278 0.0223

Neptune 17108-10-24 00:00 G 7969924.36 7969924.50 7969924.65 0.0088 0.0037

Neptune 17109-01-20 02:09 G 7970012.46 7970012.59 7970012.74 0.0088 0.0045

Neptune 17109-04-18 04:19 G 7970100.56 7970100.68 7970100.82 0.0088 0.0053

Neptune 17109-07-15 06:28 G 7970188.67 7970188.77 7970188.90 0.0088 0.0061

Pluto 17109-08-20 06:14 G 7970224.73 7970224.76 7970224.83 0.0074 0.0071

Neptune 17109-10-11 08:38 G 7970276.77 7970276.86 7970276.97 0.0088 0.0069

Pluto 17109-11-16 08:38 G 7970312.75 7970312.86 7970313.01 0.0073 0.0056

Neptune 17110-01-07 10:48 G 7970364.89 7970364.95 7970365.04 0.0088 0.0077

Pluto 17110-02-12 11:31 G 7970400.82 7970400.98 7970401.15 0.0073 0.0040

Neptune 17110-04-05 12:57 G 7970453.02 7970453.04 7970453.10 0.0088 0.0085

Mars 17110-04-08 07:40 G 7970455.69 7970455.82 7970455.95 0.1588 0.0705

Pluto 17110-05-11 13:55 G 7970488.90 7970489.08 7970489.27 0.0073 0.0025

Pluto 17110-08-07 16:19 G 7970576.99 7970577.18 7970577.38 0.0073 0.0009

Pluto 17110-11-03 18:43 G 7970665.09 7970665.28 7970665.48 0.0073 0.0006

Pluto 17111-01-30 20:52 G 7970753.19 7970753.37 7970753.57 0.0073 0.0021

Venus 17111-02-20 23:31 G 7970774.38 7970774.48 7970774.58 0.3690 0.1707

Pluto 17111-04-28 23:31 G 7970841.31 7970841.48 7970841.65 0.0073 0.0035

Pluto 17111-07-26 01:26 G 7970929.44 7970929.56 7970929.72 0.0073 0.0050

Pluto 17111-10-22 03:36 G 7971017.59 7971017.65 7971017.76 0.0073 0.0065

Jupiter 17111-11-07 21:50 G 7971034.28 7971034.41 7971034.54 0.0536 0.0261

Jupiter 17112-02-05 17:02 G 7971124.15 7971124.21 7971124.28 0.0539 0.0478

Moon 17112-05-02 17:16 G 7971211.10 7971211.22 7971211.34 0.2649 0.0872

Earth 17112-05-02 18:14 G 7971211.14 7971211.26 7971211.38 0.2648 0.0814 *

Venus 17112-09-03 06:14 G 7971334.64 7971334.76 7971334.89 0.3680 0.0926

Moon 17114-10-31 21:50 G 7972123.29 7972123.41 7972123.53 0.2688 0.0773

Earth 17114-10-31 22:33 G 7972123.31 7972123.44 7972123.56 0.2683 0.0744 *

Mars 17114-12-29 16:33 G 7972182.07 7972182.19 7972182.30 0.1949 0.0895

Venus 17116-09-05 18:00 G 7972798.19 7972798.25 7972798.31 0.3691 0.3073

Jupiter 17117-06-24 18:28 G 7973090.13 7973090.27 7973090.41 0.0492 0.0193

Jupiter 17117-09-22 07:26 G 7973179.71 7973179.81 7973179.91 0.0490 0.0380

Venus 17118-03-20 05:45 G 7973358.66 7973358.74 7973358.82 0.3680 0.2974

Mars 17119-08-29 14:38 G 7973886.04 7973886.11 7973886.18 0.1590 0.1362

Mars 17121-08-04 11:45 G 7974591.93 7974591.99 7974592.05 0.1585 0.1442

Saturn 17122-10-11 03:07 G 7975024.53 7975024.63 7975024.74 0.0280 0.0203

Saturn 17123-01-07 18:14 G 7975113.11 7975113.26 7975113.40 0.0280 0.0097

Saturn 17123-04-06 09:36 G 7975201.74 7975201.90 7975202.05 0.0280 0.0014

Saturn 17123-07-04 01:12 G 7975290.41 7975290.55 7975290.69 0.0280 0.0124

Jupiter 17123-08-26 22:33 G 7975344.36 7975344.44 7975344.53 0.0535 0.0442

Saturn 17123-09-30 17:16 G 7975379.14 7975379.22 7975379.30 0.0280 0.0238

Jupiter 17123-11-24 18:28 G 7975434.15 7975434.27 7975434.39 0.0538 0.0305

Moon 17125-05-05 14:52 G 7975962.00 7975962.12 7975962.24 0.2653 0.0820

Earth 17125-05-05 15:36 G 7975962.03 7975962.15 7975962.27 0.2649 0.0951 *

Moon 17127-11-03 21:07 G 7976874.26 7976874.38 7976874.49 0.2690 0.1174

Earth 17127-11-03 21:07 G 7976874.27 7976874.38 7976874.50 0.2683 0.1223 *

Jupiter 17129-04-12 21:07 G 7977400.27 7977400.38 7977400.49 0.0493 0.0332

Jupiter 17129-07-11 09:36 G 7977489.77 7977489.90 7977490.04 0.0491 0.0236

Mars 17130-12-25 18:14 G 7978022.13 7978022.26 7978022.39 0.1586 0.0745

Jupiter 17135-09-12 19:55 G 7979744.18 7979744.33 7979744.47 0.0537 0.0131

Mars 17135-09-17 07:12 G 7979748.72 7979748.80 7979748.88 0.1952 0.1504

Saturn 17137-02-19 12:43 G 7980269.97 7980270.03 7980270.10 0.0279 0.0252

Saturn 17137-05-19 04:48 G 7980358.57 7980358.70 7980358.84 0.0279 0.0139

Saturn 17137-08-15 20:38 G 7980447.21 7980447.36 7980447.52 0.0279 0.0027

Saturn 17137-11-12 12:00 G 7980535.86 7980536.00 7980536.15 0.0279 0.0081

Saturn 17138-02-09 03:07 G 7980624.52 7980624.63 7980624.74 0.0279 0.0187

Uranus 17138-05-07 22:48 G 7980712.38 7980712.45 7980712.53 0.0133 0.0116

Uranus 17138-08-04 03:07 G 7980800.53 7980800.63 7980800.74 0.0133 0.0098

Uranus 17138-10-31 07:12 G 7980888.69 7980888.80 7980888.94 0.0133 0.0079

Uranus 17139-01-27 11:31 G 7980976.85 7980976.98 7980977.12 0.0133 0.0061

Uranus 17139-04-25 15:50 G 7981065.02 7981065.16 7981065.31 0.0133 0.0042

Uranus 17139-07-22 20:09 G 7981153.19 7981153.34 7981153.49 0.0133 0.0024

Uranus 17139-10-19 00:14 G 7981241.36 7981241.51 7981241.66 0.0133 0.0006

Uranus 17140-01-15 04:19 G 7981329.53 7981329.68 7981329.83 0.0133 0.0013

Uranus 17140-04-12 08:09 G 7981417.70 7981417.84 7981417.99 0.0133 0.0031

Mars 17140-05-17 00:57 G 7981452.39 7981452.54 7981452.69 0.1587 0.0060

Uranus 17140-07-09 12:28 G 7981505.88 7981506.02 7981506.15 0.0133 0.0049

Uranus 17140-10-05 16:19 G 7981594.05 7981594.18 7981594.31 0.0133 0.0066

Uranus 17141-01-01 20:09 G 7981682.23 7981682.34 7981682.46 0.0133 0.0084

Jupiter 17141-01-29 23:02 G 7981710.43 7981710.46 7981710.50 0.0494 0.0478

Uranus 17141-03-31 00:14 G 7981770.42 7981770.51 7981770.61 0.0134 0.0102

Jupiter 17141-04-29 11:16 G 7981799.83 7981799.97 7981800.12 0.0491 0.0086

Uranus 17141-06-27 03:50 G 7981858.61 7981858.66 7981858.74 0.0134 0.0120

Mars 17145-02-06 12:00 G 7983178.88 7983179.00 7983179.12 0.1951 0.0369

Moon 17145-05-01 01:12 G 7983262.49 7983262.55 7983262.61 0.2644 0.2288

Earth 17145-05-01 01:55 G 7983262.52 7983262.58 7983262.65 0.2648 0.2255 *

Jupiter 17147-07-01 20:24 G 7984054.20 7984054.35 7984054.50 0.0536 0.0057

Moon 17147-10-30 04:33 G 7984174.63 7984174.69 7984174.75 0.2684 0.2311

Earth 17147-10-30 05:31 G 7984174.67 7984174.73 7984174.80 0.2684 0.2255 *

Mars 17149-10-07 07:55 G 7984882.69 7984882.83 7984882.96 0.1588 0.0612

Venus 17151-02-12 13:12 G 7985375.96 7985376.05 7985376.14 0.3689 0.2220

Saturn 17152-02-28 05:31 G 7985756.64 7985756.73 7985756.82 0.0279 0.0227

Saturn 17152-05-26 20:24 G 7985845.21 7985845.35 7985845.49 0.0280 0.0121

Saturn 17152-08-23 11:45 G 7985933.83 7985933.99 7985934.14 0.0280 0.0013

Saturn 17152-11-20 03:21 G 7986022.50 7986022.64 7986022.79 0.0280 0.0098

Jupiter 17153-02-15 13:40 G 7986109.92 7986110.07 7986110.22 0.0492 0.0059

Saturn 17153-02-16 19:12 G 7986111.21 7986111.30 7986111.41 0.0280 0.0213

Mars 17154-06-29 16:33 G 7986609.08 7986609.19 7986609.31 0.1949 0.0781

Venus 17156-08-28 08:24 G 7987399.73 7987399.85 7987399.96 0.3690 0.0711

Venus 17158-03-11 08:24 G 7987959.75 7987959.85 7987959.95 0.3681 0.2315

Moon 17158-05-03 22:33 G 7988013.32 7988013.44 7988013.56 0.2650 0.0655

Earth 17158-05-03 23:31 G 7988013.36 7988013.48 7988013.61 0.2648 0.0444 *

Mars 17159-02-27 14:52 G 7988313.04 7988313.12 7988313.21 0.1590 0.1271

Jupiter 17159-04-19 19:55 G 7988364.19 7988364.33 7988364.46 0.0535 0.0264

Jupiter 17159-07-18 15:07 G 7988454.06 7988454.13 7988454.20 0.0538 0.0475

Moon 17160-11-01 03:21 G 7988925.52 7988925.64 7988925.77 0.2689 0.0512

Earth 17160-11-01 04:04 G 7988925.54 7988925.67 7988925.80 0.2683 0.0350 *

Mars 17161-02-02 12:00 G 7989018.97 7989019.00 7989019.03 0.1585 0.1540

Venus 17162-03-14 03:07 G 7989423.52 7989423.63 7989423.74 0.3690 0.0746

Venus 17163-09-25 06:57 G 7989983.66 7989983.79 7989983.91 0.3681 0.0456

Jupiter 17164-12-04 16:33 G 7990420.06 7990420.19 7990420.33 0.0493 0.0193

Jupiter 17165-03-04 05:31 G 7990509.64 7990509.73 7990509.83 0.0490 0.0381

Saturn 17166-07-09 15:36 G 7991002.12 7991002.15 7991002.19 0.0279 0.0272

Saturn 17166-10-06 07:55 G 7991090.70 7991090.83 7991090.96 0.0279 0.0158

Saturn 17167-01-02 23:45 G 7991179.34 7991179.49 7991179.64 0.0279 0.0046

Saturn 17167-04-01 15:07 G 7991267.98 7991268.13 7991268.28 0.0279 0.0063

Saturn 17167-06-29 06:14 G 7991356.64 7991356.76 7991356.88 0.0279 0.0169

Saturn 17167-09-25 20:52 G 7991445.34 7991445.37 7991445.40 0.0278 0.0272

Venus 17167-09-27 21:50 G 7991447.31 7991447.41 7991447.50 0.3691 0.2144

Venus 17169-04-10 06:00 G 7992007.63 7992007.75 7992007.86 0.3680 0.1547

Mars 17170-06-25 18:28 G 7992449.15 7992449.27 7992449.40 0.1586 0.0847

Jupiter 17171-02-05 20:09 G 7992674.26 7992674.34 7992674.42 0.0535 0.0452

Jupiter 17171-05-06 16:04 G 7992764.05 7992764.17 7992764.29 0.0538 0.0295

Moon 17171-05-06 20:24 G 7992764.24 7992764.35 7992764.46 0.2654 0.1303 *

Earth 17171-05-06 20:52 G 7992764.26 7992764.37 7992764.48 0.2649 0.1317 *

Venus 17173-04-12 16:04 G 7993471.14 7993471.17 7993471.21 0.3691 0.3490

Moon 17173-11-04 02:38 G 7993676.51 7993676.61 7993676.71 0.2689 0.1688

Earth 17173-11-04 02:38 G 7993676.51 7993676.61 7993676.72 0.2683 0.1627 *

Venus 17174-10-25 05:31 G 7994031.71 7994031.73 7994031.74 0.3680 0.3627

Mars 17175-03-18 07:26 G 7994175.74 7994175.81 7994175.87 0.1952 0.1616

Jupiter 17176-09-22 19:12 G 7994730.20 7994730.30 7994730.42 0.0493 0.0330

Jupiter 17176-12-21 07:55 G 7994819.70 7994819.83 7994819.96 0.0491 0.0238

Mars 17179-11-16 01:26 G 7995879.41 7995879.56 7995879.70 0.1587 0.0169

Uranus 17180-02-08 03:21 G 7995963.58 7995963.64 7995963.73 0.0145 0.0126

Uranus 17180-05-06 09:07 G 7996051.78 7996051.88 7996052.00 0.0145 0.0102

Uranus 17180-08-02 14:52 G 7996139.99 7996140.12 7996140.26 0.0145 0.0077

Uranus 17180-10-29 20:38 G 7996228.21 7996228.36 7996228.51 0.0145 0.0053

Uranus 17181-01-26 02:24 G 7996316.45 7996316.60 7996316.76 0.0145 0.0028

Uranus 17181-04-24 08:24 G 7996404.69 7996404.85 7996405.01 0.0145 0.0003

Saturn 17181-07-17 06:14 G 7996488.71 7996488.76 7996488.82 0.0279 0.0260

Uranus 17181-07-21 14:09 G 7996492.93 7996493.09 7996493.26 0.0145 0.0023

Saturn 17181-10-13 21:07 G 7996577.26 7996577.38 7996577.51 0.0280 0.0156

Uranus 17181-10-17 20:09 G 7996581.19 7996581.34 7996581.50 0.0145 0.0048

Saturn 17182-01-10 12:14 G 7996665.86 7996666.01 7996666.16 0.0280 0.0049

Uranus 17182-01-14 01:55 G 7996669.45 7996669.58 7996669.73 0.0145 0.0074

Saturn 17182-04-09 03:50 G 7996754.50 7996754.66 7996754.81 0.0280 0.0062

Uranus 17182-04-12 08:09 G 7996757.72 7996757.84 7996757.96 0.0145 0.0099

Saturn 17182-07-06 19:26 G 7996843.20 7996843.31 7996843.44 0.0280 0.0175

Uranus 17182-07-09 14:09 G 7996846.02 7996846.09 7996846.18 0.0145 0.0125

Jupiter 17183-02-22 17:16 G 7997074.08 7997074.22 7997074.37 0.0537 0.0120

Mars 17184-08-07 12:14 G 7997605.89 7997606.01 7997606.13 0.1951 0.0490

Neptune 17188-03-13 12:43 G 7998920.00 7998920.03 7998920.09 0.0089 0.0085

Neptune 17188-06-09 15:07 G 7999008.06 7999008.13 7999008.22 0.0089 0.0077

Jupiter 17188-07-11 22:04 G 7999040.38 7999040.42 7999040.47 0.0494 0.0467

Neptune 17188-09-05 17:16 G 7999096.13 7999096.22 7999096.34 0.0089 0.0069

Jupiter 17188-10-09 10:19 G 7999129.78 7999129.93 7999130.08 0.0491 0.0096

Neptune 17188-12-02 19:26 G 7999184.21 7999184.31 7999184.44 0.0089 0.0061

Neptune 17189-02-28 22:04 G 7999272.29 7999272.42 7999272.55 0.0089 0.0052

Mars 17189-04-07 08:09 G 7999309.70 7999309.84 7999309.98 0.1588 0.0513

Neptune 17189-05-28 00:14 G 7999360.37 7999360.51 7999360.65 0.0089 0.0044

Neptune 17189-08-24 02:24 G 7999448.46 7999448.60 7999448.75 0.0089 0.0035

Neptune 17189-11-20 04:33 G 7999536.55 7999536.69 7999536.85 0.0089 0.0027

Neptune 17190-02-16 06:43 G 7999624.63 7999624.78 7999624.94 0.0089 0.0020

Neptune 17190-05-15 09:07 G 7999712.72 7999712.88 7999713.04 0.0089 0.0011

Neptune 17190-08-11 11:16 G 7999800.81 7999800.97 7999801.13 0.0089 0.0003

Neptune 17190-11-07 13:26 G 7999888.90 7999889.06 7999889.22 0.0089 0.0005

Neptune 17191-02-03 15:36 G 7999976.99 7999977.15 7999977.30 0.0089 0.0013

Moon 17191-05-02 06:28 G 8000064.69 8000064.77 8000064.85 0.2646 0.2033

Earth 17191-05-02 07:26 G 8000064.72 8000064.81 8000064.90 0.2648 0.1866 *

Neptune 17191-05-02 17:31 G 8000065.09 8000065.23 8000065.39 0.0089 0.0022

Neptune 17191-07-29 19:40 G 8000153.18 8000153.32 8000153.47 0.0089 0.0029

Neptune 17191-10-25 21:50 G 8000241.27 8000241.41 8000241.56 0.0089 0.0037

Neptune 17192-01-21 23:45 G 8000329.37 8000329.49 8000329.64 0.0089 0.0045

Neptune 17192-04-19 01:55 G 8000417.46 8000417.58 8000417.71 0.0089 0.0053

Neptune 17192-07-16 04:04 G 8000505.56 8000505.67 8000505.79 0.0089 0.0061

Neptune 17192-10-12 06:14 G 8000593.66 8000593.76 8000593.86 0.0089 0.0068

Neptune 17193-01-08 08:09 G 8000681.77 8000681.84 8000681.93 0.0089 0.0076

Neptune 17193-04-06 10:04 G 8000769.88 8000769.92 8000769.98 0.0089 0.0084

Moon 17193-10-30 10:04 G 8000976.84 8000976.92 8000977.00 0.2686 0.2055

Earth 17193-10-30 11:02 G 8000976.87 8000976.96 8000977.05 0.2684 0.1863 *

Mars 17193-12-28 16:48 G 8001036.08 8001036.20 8001036.32 0.1949 0.0662

Jupiter 17194-12-11 18:43 G 8001384.13 8001384.28 8001384.43 0.0536 0.0057

Saturn 17196-02-23 07:26 G 8001822.70 8001822.81 8001822.92 0.0279 0.0200

Saturn 17196-05-21 23:16 G 8001911.33 8001911.47 8001911.62 0.0279 0.0088

Saturn 17196-08-18 14:52 G 8001999.97 8002000.12 8002000.28 0.0279 0.0024

Saturn 17196-11-15 06:14 G 8002088.62 8002088.76 8002088.89 0.0279 0.0129

Saturn 17197-02-11 21:07 G 8002177.30 8002177.38 8002177.46 0.0278 0.0234

Mars 17198-08-28 15:07 G 8002740.04 8002740.13 8002740.23 0.1590 0.1178

Jupiter 17200-07-28 12:14 G 8003439.86 8003440.01 8003440.16 0.0492 0.0053

Venus 17202-03-05 16:19 G 8004025.13 8004025.18 8004025.23 0.3689 0.3298

Mars 17203-05-20 21:07 G 8004466.34 8004466.38 8004466.42 0.1947 0.1849

Moon 17204-05-04 03:50 G 8004815.54 8004815.66 8004815.79 0.2650 0.0142

Earth 17204-05-04 05:02 G 8004815.58 8004815.71 8004815.83 0.2648 0.0114 *

Jupiter 17206-09-29 19:12 G 8005694.16 8005694.30 8005694.43 0.0535 0.0244

Moon 17206-11-02 08:52 G 8005727.74 8005727.87 8005728.00 0.2689 0.0055

Earth 17206-11-02 09:36 G 8005727.77 8005727.90 8005728.03 0.2683 0.0104 *

Jupiter 17206-12-28 14:24 G 8005784.05 8005784.10 8005784.16 0.0538 0.0494

Venus 17207-09-19 11:31 G 8006048.88 8006048.98 8006049.09 0.3689 0.1747

Venus 17209-04-01 09:21 G 8006608.86 8006608.89 8006608.92 0.3682 0.3556

Mars 17209-12-24 18:57 G 8006876.17 8006876.29 8006876.40 0.1586 0.0944

Saturn 17211-03-02 22:48 G 8007309.34 8007309.45 8007309.57 0.0280 0.0184

Saturn 17211-05-30 13:55 G 8007397.94 8007398.08 8007398.23 0.0280 0.0077

Saturn 17211-08-27 05:31 G 8007486.57 8007486.73 8007486.88 0.0280 0.0033

Saturn 17211-11-23 21:07 G 8007575.25 8007575.38 8007575.52 0.0280 0.0145

Saturn 17212-02-20 13:12 G 8007664.00 8007664.05 8007664.12 0.0280 0.0261

Jupiter 17212-05-16 14:38 G 8007749.98 8007750.11 8007750.25 0.0493 0.0194

Jupiter 17212-08-14 03:36 G 8007839.56 8007839.65 8007839.75 0.0490 0.0380

Venus 17213-04-04 06:43 G 8008072.66 8008072.78 8008072.89 0.3690 0.0257

Mars 17214-09-16 07:26 G 8008602.75 8008602.81 8008602.86 0.1952 0.1722

Venus 17214-10-16 07:40 G 8008632.71 8008632.82 8008632.93 0.3681 0.1749

Moon 17217-05-07 01:55 G 8009566.48 8009566.58 8009566.68 0.2655 0.1564

Earth 17217-05-07 02:09 G 8009566.50 8009566.59 8009566.69 0.2649 0.1679 *

Jupiter 17218-07-18 18:28 G 8010004.19 8010004.27 8010004.35 0.0534 0.0452

Jupiter 17218-10-16 14:09 G 8010093.97 8010094.09 8010094.22 0.0537 0.0295

Venus 17218-10-19 01:26 G 8010096.45 8010096.56 8010096.67 0.3690 0.1189

Mars 17219-05-17 01:40 G 8010306.42 8010306.57 8010306.71 0.1587 0.0261

Earth 17219-11-05 08:09 G 8010478.76 8010478.84 8010478.92 0.2683 0.2035

Moon 17219-11-05 08:24 G 8010478.77 8010478.85 8010478.94 0.2689 0.2013 *

Venus 17220-05-01 06:14 G 8010656.63 8010656.76 8010656.89 0.3680 0.0171

Uranus 17222-03-01 01:12 G 8011325.54 8011325.55 8011325.59 0.0133 0.0132

Uranus 17222-05-28 05:45 G 8011413.66 8011413.74 8011413.83 0.0133 0.0112

Uranus 17222-08-24 10:04 G 8011501.82 8011501.92 8011502.03 0.0133 0.0093

Uranus 17222-11-20 14:24 G 8011589.97 8011590.10 8011590.23 0.0133 0.0075

Uranus 17223-02-16 18:28 G 8011678.14 8011678.27 8011678.41 0.0133 0.0057

Uranus 17223-05-15 22:48 G 8011766.30 8011766.45 8011766.60 0.0133 0.0038

Uranus 17223-08-12 02:52 G 8011854.47 8011854.62 8011854.77 0.0133 0.0020

Uranus	17223-11-08 07:12 G	8011942.64	8011942.80	8011942.95	0.0133	0.0003
Uranus	17224-02-04 11:02 G	8012030.82	8012030.96	8012031.12	0.0133	0.0018
Mars	17224-02-06 12:28 G	8012032.90	8012033.02	8012033.14	0.1951	0.0610
Jupiter	17224-03-04 17:31 G	8012060.13	8012060.23	8012060.35	0.0494	0.0329
Uranus	17224-05-02 15:07 G	8012118.99	8012119.13	8012119.28	0.0133	0.0035
Venus	17224-05-03 19:55 G	8012120.25	8012120.33	8012120.41	0.3691	0.2578
Jupiter	17224-06-02 06:14 G	8012149.63	8012149.76	8012149.89	0.0491	0.0241
Uranus	17224-07-29 19:12 G	8012207.17	8012207.30	8012207.44	0.0133	0.0053
Uranus	17224-10-25 23:16 G	8012295.35	8012295.47	8012295.60	0.0133	0.0070
Uranus	17225-01-22 03:07 G	8012383.53	8012383.63	8012383.75	0.0134	0.0088
Uranus	17225-04-20 07:12 G	8012471.71	8012471.80	8012471.89	0.0134	0.0106
Saturn	17225-07-12 10:19 G	8012554.84	8012554.93	8012555.03	0.0279	0.0220
Uranus	17225-07-17 10:48 G	8012559.91	8012559.95	8012560.02	0.0134	0.0124
Saturn	17225-10-09 02:24 G	8012643.45	8012643.60	8012643.74	0.0279	0.0107
Venus	17225-11-15 05:31 G	8012680.62	8012680.73	8012680.83	0.3680	0.2178
Saturn	17226-01-05 18:00 G	8012732.10	8012732.25	8012732.41	0.0279	0.0003
Saturn	17226-04-04 09:21 G	8012820.75	8012820.89	8012821.03	0.0279	0.0111
Saturn	17226-07-02 00:00 G	8012909.41	8012909.50	8012909.60	0.0278	0.0216
Mars	17228-10-06 08:24 G	8013736.71	8013736.85	8013736.99	0.1588	0.0417
Jupiter	17230-08-04 15:07 G	8014403.98	8014404.13	8014404.28	0.0537	0.0111
Mars	17233-06-28 17:02 G	8015463.09	8015463.21	8015463.34	0.1949	0.0544
Jupiter	17235-12-22 20:38 G	8016370.31	8016370.36	8016370.40	0.0494	0.0463
Jupiter	17236-03-21 08:38 G	8016459.72	8016459.86	8016460.01	0.0491	0.0101
Moon	17237-05-02 11:45 G	8016866.89	8016866.99	8016867.09	0.2647	0.1596
Earth	17237-05-02 12:43 G	8016866.93	8016867.03	8016867.14	0.2648	0.1489 *
Mars	17238-02-26 15:36 G	8017167.04	8017167.15	8017167.25	0.1590	0.1080
Moon	17239-10-31 15:36 G	8017779.05	8017779.15	8017779.25	0.2687	0.1560
Earth	17239-10-31 16:33 G	8017779.08	8017779.19	8017779.29	0.2684	0.1480 *
Saturn	17240-07-19 23:45 G	8018041.40	8018041.49	8018041.58	0.0279	0.0217
Saturn	17240-10-16 14:38 G	8018129.97	8018130.11	8018130.25	0.0280	0.0112

Saturn 17241-01-13 06:00 G 8018218.59 8018218.75 8018218.90 0.0280 0.0006

Saturn 17241-04-11 21:36 G 8018307.26 8018307.40 8018307.54 0.0280 0.0107

Saturn 17241-07-09 13:26 G 8018395.97 8018396.06 8018396.16 0.0280 0.0222

Jupiter 17242-05-23 16:04 G 8018714.03 8018714.17 8018714.32 0.0536 0.0069

Mars 17242-11-18 21:21 G 8018893.34 8018893.39 8018893.45 0.1947 0.1723

Jupiter 17248-01-08 11:16 G 8020769.82 8020769.97 8020770.12 0.0492 0.0040

Mars 17249-06-24 19:12 G 8021303.19 8021303.30 8021303.41 0.1586 0.1048

Moon 17250-05-05 09:21 G 8021617.77 8021617.89 8021618.02 0.2651 0.0131

Earth 17250-05-05 10:19 G 8021617.80 8021617.93 8021618.05 0.2648 0.0307 *

Moon 17252-11-02 14:24 G 8022529.98 8022530.10 8022530.23 0.2689 0.0326

Earth 17252-11-02 14:52 G 8022530.00 8022530.12 8022530.25 0.2683 0.0460 *

Jupiter 17254-03-11 17:16 G 8023024.09 8023024.22 8023024.36 0.0536 0.0243

Mars 17254-03-17 07:40 G 8023029.78 8023029.82 8023029.86 0.1952 0.1842

Jupiter 17254-06-09 12:43 G 8023113.98 8023114.03 8023114.09 0.0538 0.0497

Saturn 17254-11-29 09:36 G 8023286.85 8023286.90 8023286.95 0.0279 0.0265

Saturn 17255-02-26 01:40 G 8023375.44 8023375.57 8023375.71 0.0279 0.0151

Saturn 17255-05-25 17:31 G 8023464.08 8023464.23 8023464.39 0.0279 0.0039

Saturn 17255-08-22 08:52 G 8023552.73 8023552.87 8023553.02 0.0279 0.0070

Saturn 17255-11-19 00:00 G 8023641.39 8023641.50 8023641.62 0.0278 0.0176

Venus 17258-10-10 14:38 G 8024698.04 8024698.11 8024698.19 0.3689 0.2812

Mars 17258-11-15 01:55 G 8024733.43 8024733.58 8024733.72 0.1587 0.0356

Jupiter 17259-10-27 13:26 G 8025079.92 8025080.06 8025080.19 0.0493 0.0188

Jupiter 17260-01-25 02:09 G 8025169.50 8025169.59 8025169.69 0.0490 0.0385

Moon 17263-05-08 07:12 G 8026368.73 8026368.80 8026368.88 0.2656 0.2084

Earth 17263-05-08 07:26 G 8026368.74 8026368.81 8026368.89 0.2649 0.2044 *

Mars 17263-08-07 12:28 G 8026459.91 8026460.02 8026460.14 0.1951 0.0720

Uranus 17263-12-02 05:02 G 8026576.70 8026576.71 8026576.73 0.0145 0.0144

Uranus 17264-02-28 10:48 G 8026664.86 8026664.95 8026665.04 0.0145 0.0120

Venus 17264-04-25 10:04 G 8026721.81 8026721.92 8026722.03 0.3689 0.1270

Uranus 17264-05-26 16:19 G 8026753.07 8026753.18 8026753.30 0.0145 0.0096

Uranus 17264-08-22 21:50 G 8026841.28 8026841.41 8026841.56 0.0145 0.0072

Uranus 17264-11-19 03:50 G 8026929.51 8026929.66 8026929.81 0.0145 0.0047

Uranus 17265-02-15 09:36 G 8027017.74 8027017.90 8027018.06 0.0145 0.0022

Uranus 17265-05-14 15:21 G 8027105.98 8027106.14 8027106.31 0.0145 0.0004

Uranus 17265-08-10 21:21 G 8027194.23 8027194.39 8027194.55 0.0145 0.0028

Earth 17265-11-05 13:40 G 8027281.02 8027281.07 8027281.12 0.2682 0.2444

Moon 17265-11-05 14:09 G 8027281.06 8027281.09 8027281.12 0.2689 0.2598 *

Venus 17265-11-06 08:38 G 8027281.79 8027281.86 8027281.93 0.3681 0.3000

Uranus 17265-11-07 03:21 G 8027282.48 8027282.64 8027282.79 0.0145 0.0053

Jupiter 17265-12-28 18:00 G 8027334.16 8027334.25 8027334.34 0.0535 0.0430

Uranus 17266-02-03 09:07 G 8027370.75 8027370.88 8027371.02 0.0145 0.0079

Jupiter 17266-03-28 13:40 G 8027423.95 8027424.07 8027424.19 0.0538 0.0317

Uranus 17266-05-02 14:52 G 8027459.02 8027459.12 8027459.25 0.0145 0.0105

Uranus 17266-07-29 21:21 G 8027547.32 8027547.39 8027547.46 0.0145 0.0130

Mars 17268-04-06 08:38 G 8028163.72 8028163.86 8028164.01 0.1588 0.0324

Neptune 17269-09-10 13:55 G 8028686.04 8028686.08 8028686.15 0.0088 0.0083

Venus 17269-11-09 05:02 G 8028745.60 8028745.71 8028745.83 0.3690 0.0210

Saturn 17269-12-07 00:57 G 8028773.48 8028773.54 8028773.61 0.0279 0.0248

Neptune 17269-12-07 16:19 G 8028774.10 8028774.18 8028774.26 0.0088 0.0074

Pluto 17270-02-22 10:48 G 8028850.91 8028850.95 8028851.01 0.0071 0.0066

Saturn 17270-03-05 15:50 G 8028862.03 8028862.16 8028862.29 0.0280 0.0144

Neptune 17270-03-05 18:14 G 8028862.17 8028862.26 8028862.37 0.0088 0.0067 *

Pluto 17270-05-21 11:16 G 8028938.91 8028938.97 8028939.07 0.0071 0.0057

Neptune 17270-06-01 20:24 G 8028950.24 8028950.35 8028950.47 0.0088 0.0059

Saturn 17270-06-02 06:57 G 8028950.64 8028950.79 8028950.95 0.0280 0.0037

Pluto 17270-08-17 12:14 G 8029026.92 8029027.01 8029027.11 0.0071 0.0047

Neptune 17270-08-28 22:19 G 8029038.31 8029038.43 8029038.56 0.0088 0.0052

Saturn 17270-08-29 22:33 G 8029039.29 8029039.44 8029039.59 0.0280 0.0075

Pluto 17270-11-13 12:43 G 8029114.93 8029115.03 8029115.15 0.0071 0.0038

Neptune 17270-11-25 00:28 G 8029126.39 8029126.52 8029126.66 0.0088 0.0044

Saturn 17270-11-26 14:24 G 8029127.99 8029128.10 8029128.22 0.0280 0.0189

Pluto 17271-02-09 13:26 G 8029202.95 8029203.06 8029203.19 0.0071 0.0029

Neptune 17271-02-21 02:24 G 8029214.47 8029214.60 8029214.75 0.0088 0.0037

Pluto 17271-05-08 14:09 G 8029290.97 8029291.09 8029291.22 0.0071 0.0019

Neptune 17271-05-20 04:33 G 8029302.55 8029302.69 8029302.84 0.0088 0.0029

Venus 17271-05-23 06:57 G 8029305.67 8029305.79 8029305.91 0.3681 0.1167

Pluto 17271-08-04 14:52 G 8029378.99 8029379.12 8029379.26 0.0071 0.0010

Jupiter 17271-08-15 15:50 G 8029390.06 8029390.16 8029390.28 0.0493 0.0327

Neptune 17271-08-16 06:43 G 8029390.63 8029390.78 8029390.93 0.0088 0.0021

Pluto 17271-10-31 15:36 G 8029467.02 8029467.15 8029467.29 0.0071 0.0001

Neptune 17271-11-12 08:38 G 8029478.71 8029478.86 8029479.02 0.0088 0.0014

Jupiter 17271-11-13 04:33 G 8029479.56 8029479.69 8029479.82 0.0491 0.0242

Pluto 17272-01-27 16:19 G 8029555.05 8029555.18 8029555.31 0.0071 0.0010

Neptune 17272-02-08 10:48 G 8029566.80 8029566.95 8029567.11 0.0088 0.0006

Pluto 17272-04-24 16:48 G 8029643.08 8029643.20 8029643.34 0.0072 0.0020

Neptune 17272-05-06 12:57 G 8029654.88 8029655.04 8029655.20 0.0088 0.0002

Pluto 17272-07-21 17:45 G 8029731.12 8029731.24 8029731.36 0.0072 0.0029

Neptune 17272-08-02 15:07 G 8029742.97 8029743.13 8029743.29 0.0088 0.0010

Pluto 17272-10-17 18:14 G 8029819.16 8029819.26 8029819.38 0.0072 0.0039

Neptune 17272-10-29 17:02 G 8029831.06 8029831.21 8029831.37 0.0088 0.0018

Mars 17272-12-27 17:16 G 8029890.09 8029890.22 8029890.34 0.1949 0.0436

Pluto 17273-01-13 18:43 G 8029907.20 8029907.28 8029907.39 0.0072 0.0049

Neptune 17273-01-25 19:26 G 8029919.16 8029919.31 8029919.46 0.0088 0.0025

Pluto 17273-04-11 19:26 G 8029995.25 8029995.31 8029995.40 0.0072 0.0059

Neptune 17273-04-23 21:21 G 8030007.25 8030007.39 8030007.54 0.0088 0.0033

Pluto 17273-07-08 20:09 G 8030083.32 8030083.34 8030083.39 0.0072 0.0069

Neptune 17273-07-20 23:31 G 8030095.35 8030095.48 8030095.63 0.0088 0.0041

Neptune 17273-10-17 01:40 G 8030183.45 8030183.57 8030183.71 0.0088 0.0049

Neptune 17274-01-13 03:50 G 8030271.55 8030271.66 8030271.79 0.0088 0.0057

Neptune 17274-04-11 06:00 G 8030359.65 8030359.75 8030359.87 0.0088 0.0065

Neptune 17274-07-08 08:09 G 8030447.76 8030447.84 8030447.94 0.0088 0.0073

Neptune 17274-10-04 10:19 G 8030535.88 8030535.93 8030536.00 0.0088 0.0081

Venus 17275-05-25 23:45 G 8030769.39 8030769.49 8030769.59 0.3690 0.1633

Venus 17276-12-06 05:45 G 8031329.62 8031329.74 8031329.87 0.3680 0.0780

Mars 17277-08-27 15:50 G 8031594.04 8031594.16 8031594.27 0.1590 0.0984

Jupiter 17278-01-14 13:26 G 8031733.91 8031734.06 8031734.21 0.0537 0.0115

Venus 17280-12-08 18:14 G 8032793.20 8032793.26 8032793.32 0.3691 0.3006

Mars 17282-05-19 21:50 G 8033320.34 8033320.41 8033320.48 0.1947 0.1598

Venus 17282-06-22 05:02 G 8033353.63 8033353.71 8033353.80 0.3680 0.2822

Moon 17283-05-03 17:02 G 8033669.10 8033669.21 8033669.32 0.2647 0.1260

Earth 17283-05-03 18:14 G 8033669.14 8033669.26 8033669.37 0.2648 0.1110 *

Jupiter 17283-06-03 18:57 G 8033700.24 8033700.29 8033700.34 0.0494 0.0460

Jupiter 17283-09-01 07:12 G 8033789.65 8033789.80 8033789.95 0.0492 0.0104

Saturn 17284-07-15 04:33 G 8034107.57 8034107.69 8034107.81 0.0279 0.0172

Saturn 17284-10-11 20:24 G 8034196.20 8034196.35 8034196.50 0.0279 0.0060

Saturn 17285-01-08 12:00 G 8034284.85 8034285.00 8034285.15 0.0279 0.0050

Saturn 17285-04-07 02:52 G 8034373.50 8034373.62 8034373.75 0.0279 0.0157

Saturn 17285-07-04 17:45 G 8034462.19 8034462.24 8034462.29 0.0278 0.0260

Moon 17285-10-31 21:07 G 8034581.26 8034581.38 8034581.49 0.2688 0.1231

Earth 17285-10-31 21:50 G 8034581.30 8034581.41 8034581.53 0.2683 0.1091 *

Mars 17288-12-23 19:40 G 8035730.22 8035730.32 8035730.42 0.1586 0.1149

Jupiter 17289-11-02 14:09 G 8036043.94 8036044.09 8036044.24 0.0536 0.0071

Jupiter 17295-06-20 09:50 G 8038099.76 8038099.91 8038100.06 0.0492 0.0036

Moon 17296-05-05 14:52 G 8038420.00 8038420.12 8038420.24 0.2653 0.0622

Earth 17296-05-05 15:36 G 8038420.03 8038420.15 8038420.27 0.2649 0.0672 *

Mars 17298-05-16 02:09 G 8039160.45 8039160.59 8039160.74 0.1587 0.0462

Moon 17298-11-03 20:09 G 8039332.22 8039332.34 8039332.46 0.2689 0.0874

Earth 17298-11-03 20:24 G 8039332.23 8039332.35 8039332.47 0.2683 0.0849 *

Saturn 17299-07-23 16:48 G 8039594.08 8039594.20 8039594.32 0.0279 0.0177

Saturn 17299-10-20 07:40 G 8039682.68 8039682.82 8039682.97 0.0280 0.0071

Saturn 17300-01-16 23:16 G 8039771.31 8039771.47 8039771.62 0.0280 0.0039

Saturn 17300-04-15 14:52 G 8039859.99 8039860.12 8039860.26 0.0280 0.0151

Saturn 17300-07-13 07:12 G 8039948.75 8039948.80 8039948.84 0.0280 0.0266

Jupiter 17301-08-22 15:07 G 8040353.99 8040354.13 8040354.26 0.0536 0.0251

Jupiter 17301-11-20 10:19 G 8040443.88 8040443.93 8040444.00 0.0539 0.0490

Mars 17303-02-06 12:43 G 8040886.92 8040887.03 8040887.14 0.1951 0.0832

Uranus 17306-03-22 07:55 G 8042026.80 8042026.83 8042026.88 0.0133 0.0128

Uranus 17306-06-18 12:14 G 8042114.94 8042115.01 8042115.11 0.0133 0.0110

Uranus 17306-09-14 16:48 G 8042203.09 8042203.20 8042203.31 0.0133 0.0090

Uranus 17306-12-11 21:07 G 8042291.25 8042291.38 8042291.51 0.0133 0.0072

Uranus 17307-03-10 01:12 G 8042379.41 8042379.55 8042379.69 0.0133 0.0053

Jupiter 17307-04-09 12:28 G 8042409.88 8042410.02 8042410.16 0.0493 0.0173

Uranus 17307-06-06 05:31 G 8042467.58 8042467.73 8042467.88 0.0133 0.0035

Jupiter 17307-07-08 01:12 G 8042499.47 8042499.55 8042499.64 0.0490 0.0400

Uranus 17307-09-02 09:36 G 8042555.75 8042555.90 8042556.05 0.0133 0.0017

Mars 17307-10-07 09:07 G 8042590.73 8042590.88 8042591.02 0.1588 0.0222

Uranus 17307-11-29 13:40 G 8042643.92 8042644.07 8042644.23 0.0133 0.0004

Uranus 17308-02-25 17:45 G 8042732.10 8042732.24 8042732.40 0.0133 0.0021

Uranus 17308-05-23 21:50 G 8042820.27 8042820.41 8042820.56 0.0133 0.0038

Uranus 17308-08-20 01:55 G 8042908.45 8042908.58 8042908.72 0.0134 0.0056

Uranus 17308-11-16 06:00 G 8042996.63 8042996.75 8042996.87 0.0134 0.0074

Uranus 17309-02-12 09:50 G 8043084.81 8043084.91 8043085.03 0.0134 0.0092

Moon 17309-05-09 12:43 G 8043170.97 8043171.03 8043171.08 0.2656 0.2309

Earth 17309-05-09 12:57 G 8043170.99 8043171.04 8043171.09 0.2649 0.2405 *

Uranus 17309-05-11 13:55 G 8043173.00 8043173.08 8043173.17 0.0134 0.0109

Uranus 17309-08-07 17:31 G 8043261.20 8043261.23 8043261.29 0.0134 0.0127

Mars 17312-06-28 17:31 G 8044317.10 8044317.23 8044317.36 0.1949 0.0305

Jupiter 17313-06-10 16:04 G 8044664.08 8044664.17 8044664.26 0.0535 0.0428

Jupiter 17313-09-08 12:00 G 8044753.89 8044754.00 8044754.12 0.0538 0.0320

Saturn 17313-12-03 03:36 G 8044839.55 8044839.65 8044839.75 0.0279 0.0217

Saturn	17314-03-01 19:40 G	8044928.18	8044928.32	8044928.47	0.0279	0.0104	
Saturn	17314-05-29 11:16 G	8045016.82	8045016.97	8045017.13	0.0279	0.0008	
Saturn	17314-08-26 02:38 G	8045105.47	8045105.61	8045105.75	0.0278	0.0114	
Saturn	17314-11-22 17:31 G	8045194.14	8045194.23	8045194.33	0.0278	0.0219	
Venus	17315-05-18 13:12 G	8045370.96	8045371.05	8045371.14	0.3689	0.2323	
Moon	17316-05-02 00:57 G	8045720.52	8045720.54	8045720.56	0.2644	0.2606	
Earth	17316-05-02 01:40 G	8045720.55	8045720.57	8045720.60	0.2648	0.2561	*
Mars	17317-02-26 16:04 G	8046021.05	8046021.17	8046021.29	0.1589	0.0893	
Moon	17318-10-31 04:04 G	8046632.66	8046632.67	8046632.68	0.2684	0.2671	
Earth	17318-10-31 05:02 G	8046632.68	8046632.71	8046632.74	0.2684	0.2586	*
Jupiter	17319-01-26 14:38 G	8046720.00	8046720.11	8046720.23	0.0493	0.0318	
Jupiter	17319-04-26 03:07 G	8046809.50	8046809.63	8046809.77	0.0491	0.0251	
Venus	17320-12-01 08:24 G	8047394.74	8047394.85	8047394.97	0.3690	0.0807	
Mars	17321-11-18 21:50 G	8047747.33	8047747.41	8047747.49	0.1947	0.1498	
Venus	17322-06-14 07:55 G	8047954.74	8047954.83	8047954.92	0.3681	0.2440	
Jupiter	17325-06-27 12:57 G	8049063.90	8049064.04	8049064.19	0.0537	0.0140	
Venus	17326-06-17 03:21 G	8049418.53	8049418.64	8049418.75	0.3690	0.0663	
Mars	17326-07-19 23:16 G	8049451.44	8049451.47	8049451.50	0.1591	0.1546	
Venus	17327-12-29 06:14 G	8049978.64	8049978.76	8049978.89	0.3681	0.0593	
Mars	17328-06-24 19:55 G	8050157.24	8050157.33	8050157.42	0.1586	0.1247	
Saturn	17328-12-10 17:16 G	8050326.13	8050326.22	8050326.32	0.0280	0.0212	
Saturn	17329-03-09 08:24 G	8050414.71	8050414.85	8050414.99	0.0280	0.0106	
Moon	17329-05-04 22:33 G	8050471.32	8050471.44	8050471.56	0.2647	0.0868	
Earth	17329-05-04 23:31 G	8050471.36	8050471.48	8050471.60	0.2648	0.0730	*
Saturn	17329-06-05 23:45 G	8050503.33	8050503.49	8050503.64	0.0280	0.0007	
Saturn	17329-09-02 15:21 G	8050592.00	8050592.14	8050592.28	0.0280	0.0114	
Saturn	17329-11-30 07:12 G	8050680.72	8050680.80	8050680.90	0.0280	0.0229	
Jupiter	17330-11-14 17:31 G	8051030.17	8051030.23	8051030.28	0.0494	0.0455	
Jupiter	17331-02-12 05:45 G	8051119.59	8051119.74	8051119.88	0.0492	0.0109	
Moon	17331-11-03 02:24 G	8051383.48	8051383.60	8051383.73	0.2688	0.0813	

Earth 17331-11-03 03:21 G 8051383.52 8051383.64 8051383.76 0.2683 0.0698 *

Venus 17331-12-31 22:04 G 8051442.32 8051442.42 8051442.51 0.3691 0.2075

Venus 17333-07-14 05:16 G 8052002.60 8052002.72 8052002.84 0.3680 0.1395

Jupiter 17337-04-15 12:43 G 8053373.88 8053374.03 8053374.18 0.0536 0.0063

Venus 17337-07-16 16:19 G 8053466.15 8053466.18 8053466.22 0.3691 0.3433

Mars 17337-11-15 02:38 G 8053587.47 8053587.61 8053587.75 0.1587 0.0559

Venus 17339-01-28 04:48 G 8054026.66 8054026.70 8054026.74 0.3680 0.3472

Moon 17342-05-07 20:24 G 8055222.23 8055222.35 8055222.46 0.2654 0.0940

Earth 17342-05-07 20:52 G 8055222.26 8055222.37 8055222.49 0.2649 0.1050 *

Mars 17342-08-07 12:57 G 8055313.94 8055314.04 8055314.15 0.1951 0.0965

Jupiter 17342-12-01 08:24 G 8055429.70 8055429.85 8055430.00 0.0492 0.0029

Saturn 17343-04-22 06:00 G 8055571.68 8055571.75 8055571.83 0.0280 0.0240

Saturn 17343-07-19 22:19 G 8055660.29 8055660.43 8055660.57 0.0279 0.0126

Saturn 17343-10-16 14:09 G 8055748.93 8055749.09 8055749.24 0.0279 0.0017

Saturn 17344-01-13 05:16 G 8055837.58 8055837.72 8055837.87 0.0279 0.0094

Saturn 17344-04-10 20:24 G 8055926.25 8055926.35 8055926.46 0.0279 0.0199

Moon 17344-11-05 01:55 G 8056134.46 8056134.58 8056134.69 0.2690 0.1225

Earth 17344-11-05 01:55 G 8056134.46 8056134.58 8056134.69 0.2683 0.1253 *

Mars 17347-04-07 09:21 G 8057017.75 8057017.89 8057018.04 0.1588 0.0124

Uranus 17347-12-23 12:00 G 8057277.97 8057278.00 8057278.05 0.0145 0.0139

Uranus 17348-03-20 17:45 G 8057366.15 8057366.24 8057366.34 0.0145 0.0115

Uranus 17348-06-16 23:16 G 8057454.35 8057454.47 8057454.60 0.0145 0.0091

Uranus 17348-09-13 05:02 G 8057542.57 8057542.71 8057542.86 0.0145 0.0067

Uranus 17348-12-10 10:48 G 8057630.80 8057630.95 8057631.11 0.0145 0.0042

Jupiter 17349-02-01 13:12 G 8057683.92 8057684.05 8057684.19 0.0535 0.0251

Uranus 17349-03-08 16:33 G 8057719.03 8057719.19 8057719.35 0.0145 0.0018

Jupiter 17349-05-02 08:38 G 8057773.80 8057773.86 8057773.92 0.0538 0.0488

Uranus 17349-06-04 22:19 G 8057807.27 8057807.43 8057807.60 0.0145 0.0009

Uranus 17349-09-01 04:19 G 8057895.52 8057895.68 8057895.84 0.0145 0.0033

Uranus 17349-11-28 10:19 G 8057983.78 8057983.93 8057984.08 0.0145 0.0058

Uranus 17350-02-24 16:04 G 8058072.04 8058072.17 8058072.31 0.0145 0.0084

Uranus 17350-05-23 22:04 G 8058160.32 8058160.42 8058160.53 0.0145 0.0110

Uranus 17350-08-20 04:04 G 8058248.63 8058248.67 8058248.74 0.0145 0.0136

Mars 17351-12-28 17:31 G 8058744.11 8058744.23 8058744.36 0.1949 0.0206

Neptune 17352-09-12 10:19 G 8059002.92 8059002.93 8059002.96 0.0089 0.0089

Neptune 17352-12-09 12:28 G 8059090.97 8059091.02 8059091.10 0.0089 0.0081

Neptune 17353-03-07 14:38 G 8059179.04 8059179.11 8059179.22 0.0089 0.0073

Neptune 17353-06-03 17:16 G 8059267.11 8059267.22 8059267.33 0.0089 0.0064

Neptune 17353-08-30 19:26 G 8059355.19 8059355.31 8059355.44 0.0089 0.0055

Neptune 17353-11-26 21:36 G 8059443.28 8059443.40 8059443.54 0.0089 0.0047

Neptune 17354-02-22 23:45 G 8059531.36 8059531.49 8059531.65 0.0089 0.0039

Neptune 17354-05-22 02:09 G 8059619.45 8059619.59 8059619.74 0.0089 0.0031

Neptune 17354-08-18 04:33 G 8059707.53 8059707.69 8059707.84 0.0089 0.0023

Jupiter 17354-09-19 11:02 G 8059739.82 8059739.96 8059740.10 0.0493 0.0166

Neptune 17354-11-14 06:43 G 8059795.62 8059795.78 8059795.93 0.0089 0.0014

Jupiter 17354-12-18 00:00 G 8059829.42 8059829.50 8059829.58 0.0490 0.0408

Neptune 17355-02-10 08:52 G 8059883.71 8059883.87 8059884.03 0.0089 0.0006

Neptune 17355-05-09 11:02 G 8059971.80 8059971.96 8059972.12 0.0089 0.0002

Neptune 17355-08-05 13:12 G 8060059.89 8060060.05 8060060.20 0.0089 0.0010

Pluto 17355-10-13 19:26 G 8060129.25 8060129.31 8060129.41 0.0074 0.0067

Neptune 17355-11-01 15:07 G 8060147.98 8060148.13 8060148.29 0.0089 0.0018

Pluto 17356-01-09 22:19 G 8060217.29 8060217.43 8060217.57 0.0073 0.0051

Neptune 17356-01-28 17:16 G 8060236.08 8060236.22 8060236.38 0.0089 0.0026

Pluto 17356-04-07 00:28 G 8060305.36 8060305.52 8060305.70 0.0073 0.0036

Neptune 17356-04-25 19:12 G 8060324.17 8060324.30 8060324.46 0.0089 0.0035

Pluto 17356-07-04 02:52 G 8060393.44 8060393.62 8060393.82 0.0073 0.0021

Neptune 17356-07-22 21:36 G 8060412.27 8060412.40 8060412.54 0.0089 0.0042

Mars 17356-08-27 16:19 G 8060448.06 8060448.18 8060448.31 0.1589 0.0792

Pluto 17356-09-30 05:31 G 8060481.54 8060481.73 8060481.92 0.0073 0.0005

Neptune 17356-10-18 23:45 G 8060500.36 8060500.49 8060500.62 0.0089 0.0050

Pluto 17356-12-27 07:40 G 8060569.64 8060569.82 8060570.02 0.0073 0.0010

Neptune 17357-01-15 01:40 G 8060588.46 8060588.57 8060588.70 0.0089 0.0058

Pluto 17357-03-25 09:50 G 8060657.74 8060657.91 8060658.11 0.0073 0.0025

Neptune 17357-04-13 03:36 G 8060676.56 8060676.65 8060676.77 0.0089 0.0066

Pluto 17357-06-21 12:14 G 8060745.86 8060746.01 8060746.19 0.0073 0.0040

Neptune 17357-07-10 05:45 G 8060764.66 8060764.74 8060764.84 0.0089 0.0073

Pluto 17357-09-17 14:38 G 8060833.99 8060834.11 8060834.25 0.0073 0.0054

Neptune 17357-10-06 08:09 G 8060852.77 8060852.84 8060852.90 0.0089 0.0081

Pluto 17357-12-14 16:48 G 8060922.16 8060922.20 8060922.28 0.0072 0.0069

Neptune 17358-01-02 10:04 G 8060940.91 8060940.92 8060940.94 0.0089 0.0089

Saturn 17358-04-29 18:28 G 8061058.21 8061058.27 8061058.35 0.0279 0.0244

Saturn 17358-07-27 09:21 G 8061146.76 8061146.89 8061147.02 0.0279 0.0139

Saturn 17358-10-24 00:28 G 8061235.37 8061235.52 8061235.67 0.0280 0.0032

Saturn 17359-01-20 16:04 G 8061324.02 8061324.17 8061324.32 0.0280 0.0078

Saturn 17359-04-19 07:55 G 8061412.72 8061412.83 8061412.94 0.0280 0.0191

Jupiter 17360-11-20 13:55 G 8061993.99 8061994.08 8061994.17 0.0535 0.0434

Jupiter 17361-02-18 09:50 G 8062083.79 8062083.91 8062084.03 0.0538 0.0314

Mars 17361-05-19 22:04 G 8062174.33 8062174.42 8062174.51 0.1947 0.1368

Moon 17362-05-03 06:14 G 8062522.71 8062522.76 8062522.82 0.2644 0.2359

Earth 17362-05-03 07:12 G 8062522.73 8062522.80 8062522.87 0.2648 0.2169 *

Moon 17364-10-31 09:36 G 8063434.84 8063434.90 8063434.95 0.2686 0.2408

Earth 17364-10-31 10:33 G 8063434.87 8063434.94 8063435.01 0.2684 0.2203 *

Mars 17366-01-17 23:31 G 8063878.42 8063878.48 8063878.53 0.1591 0.1454

Venus 17366-06-08 16:19 G 8064020.14 8064020.18 8064020.22 0.3689 0.3407

Jupiter 17366-07-08 13:55 G 8064049.96 8064050.08 8064050.20 0.0493 0.0302

Jupiter 17366-10-06 02:24 G 8064139.47 8064139.60 8064139.73 0.0491 0.0266

Mars 17367-12-24 20:09 G 8064584.27 8064584.34 8064584.42 0.1586 0.1354

Venus 17371-12-23 11:45 G 8066043.89 8066043.99 8066044.09 0.3689 0.1840

Saturn 17372-12-05 21:21 G 8066392.27 8066392.39 8066392.51 0.0279 0.0172

Jupiter 17372-12-07 11:31 G 8066393.83 8066393.98 8066394.12 0.0537 0.0143

Saturn	17373-03-04 13:12 G	8066480.90	8066481.05	8066481.21	0.0279	0.0060
Saturn	17373-06-01 04:48 G	8066569.55	8066569.70	8066569.85	0.0278	0.0050
Venus	17373-07-05 09:07 G	8066603.87	8066603.88	8066603.88	0.3682	0.3672
Saturn	17373-08-28 19:55 G	8066658.21	8066658.33	8066658.46	0.0278	0.0156
Saturn	17373-11-25 10:33 G	8066746.90	8066746.94	8066747.00	0.0278	0.0260
Moon	17375-05-06 03:50 G	8067273.54	8067273.66	8067273.79	0.2649	0.0455
Earth	17375-05-06 04:48 G	8067273.58	8067273.70	8067273.83	0.2648	0.0360 *
Mars	17377-05-16 02:52 G	8068014.48	8068014.62	8068014.75	0.1587	0.0656
Venus	17377-07-08 06:57 G	8068067.67	8068067.79	8068067.90	0.3690	0.0356
Moon	17377-11-03 08:09 G	8068185.71	8068185.84	8068185.96	0.2688	0.0397
Earth	17377-11-03 08:52 G	8068185.74	8068185.87	8068185.99	0.2683	0.0316 *
Jupiter	17378-04-26 16:19 G	8068360.12	8068360.18	8068360.24	0.0494	0.0444
Jupiter	17378-07-25 04:33 G	8068449.54	8068449.69	8068449.83	0.0491	0.0120
Venus	17379-01-19 07:12 G	8068627.69	8068627.80	8068627.91	0.3681	0.1875
Mars	17382-02-05 12:57 G	8069740.94	8069741.04	8069741.15	0.1951	0.1060
Venus	17383-01-22 01:40 G	8070091.46	8070091.57	8070091.68	0.3690	0.1110
Venus	17384-08-04 05:45 G	8070651.61	8070651.74	8070651.87	0.3681	0.0025
Jupiter	17384-09-25 12:28 G	8070703.87	8070704.02	8070704.17	0.0536	0.0041
Mars	17386-10-06 09:36 G	8071444.76	8071444.90	8071445.05	0.1588	0.0038
Saturn	17387-12-14 09:36 G	8071878.78	8071878.90	8071879.01	0.0280	0.0178
Saturn	17388-03-12 00:28 G	8071967.38	8071967.52	8071967.67	0.0280	0.0072
Moon	17388-05-08 01:40 G	8072024.46	8072024.57	8072024.68	0.2654	0.1341
Earth	17388-05-08 02:24 G	8072024.49	8072024.60	8072024.70	0.2649	0.1413 *
Saturn	17388-06-08 16:04 G	8072056.01	8072056.17	8072056.32	0.0280	0.0039
Venus	17388-08-06 20:24 G	8072115.26	8072115.35	8072115.43	0.3691	0.2513
Saturn	17388-09-05 07:40 G	8072144.69	8072144.82	8072144.96	0.0280	0.0151
Saturn	17388-12-03 00:00 G	8072233.45	8072233.50	8072233.55	0.0280	0.0266
Venus	17390-02-18 04:48 G	8072675.59	8072675.70	8072675.81	0.3680	0.2025
Uranus	17390-04-11 14:52 G	8072728.07	8072728.12	8072728.18	0.0133	0.0124
Jupiter	17390-05-13 06:57 G	8072759.64	8072759.79	8072759.94	0.0492	0.0022

Uranus 17390-07-08 19:12 G 8072816.21 8072816.30 8072816.40 0.0133 0.0106

Uranus 17390-10-04 23:16 G 8072904.37 8072904.47 8072904.60 0.0133 0.0088

Earth 17390-11-06 07:12 G 8072936.70 8072936.80 8072936.91 0.2683 0.1656

Moon 17390-11-06 07:26 G 8072936.71 8072936.81 8072936.91 0.2690 0.1689 *

Uranus 17391-01-01 03:36 G 8072992.53 8072992.65 8072992.79 0.0133 0.0069

Uranus 17391-03-30 08:09 G 8073080.70 8073080.84 8073080.98 0.0133 0.0050

Uranus 17391-06-26 12:14 G 8073168.86 8073169.01 8073169.16 0.0133 0.0031

Mars 17391-06-28 17:45 G 8073171.12 8073171.24 8073171.37 0.1950 0.0088

Uranus 17391-09-22 16:19 G 8073257.03 8073257.18 8073257.34 0.0133 0.0014

Uranus 17391-12-19 20:38 G 8073345.21 8073345.36 8073345.51 0.0133 0.0006

Uranus 17392-03-17 00:43 G 8073433.38 8073433.53 8073433.68 0.0133 0.0024

Uranus 17392-06-13 04:48 G 8073521.56 8073521.70 8073521.84 0.0134 0.0042

Uranus 17392-09-09 08:38 G 8073609.73 8073609.86 8073610.00 0.0134 0.0060

Uranus 17392-12-06 12:43 G 8073697.91 8073698.03 8073698.16 0.0134 0.0077

Uranus 17393-03-04 16:48 G 8073786.10 8073786.20 8073786.31 0.0134 0.0095

Uranus 17393-05-31 20:38 G 8073874.29 8073874.36 8073874.45 0.0134 0.0113

Uranus 17393-08-28 00:43 G 8073962.50 8073962.53 8073962.56 0.0134 0.0130

Mars 17396-02-26 16:33 G 8074875.06 8074875.19 8074875.32 0.1589 0.0698

Jupiter 17396-07-14 12:00 G 8075013.86 8075014.00 8075014.13 0.0535 0.0240

Jupiter 17396-10-12 07:12 G 8075103.75 8075103.80 8075103.86 0.0538 0.0498

Mars 17400-11-18 22:19 G 8076601.33 8076601.43 8076601.53 0.1947 0.1245

Jupiter 17402-03-02 09:36 G 8077069.76 8077069.90 8077070.05 0.0493 0.0160

Saturn 17402-04-25 23:16 G 8077124.37 8077124.47 8077124.59 0.0280 0.0198

Jupiter 17402-05-30 22:33 G 8077159.37 8077159.44 8077159.52 0.0491 0.0416

Saturn 17402-07-23 15:36 G 8077213.00 8077213.15 8077213.30 0.0279 0.0084

Saturn 17402-10-20 07:12 G 8077301.65 8077301.80 8077301.95 0.0279 0.0026

Saturn 17403-01-16 22:33 G 8077390.30 8077390.44 8077390.57 0.0279 0.0134

Saturn 17403-04-15 13:12 G 8077478.98 8077479.05 8077479.13 0.0279 0.0239

Mars 17405-07-20 00:00 G 8078305.42 8078305.50 8078305.57 0.1591 0.1354

Mars 17407-06-25 20:38 G 8079011.30 8079011.36 8079011.41 0.1586 0.1456

Jupiter 17408-05-03 12:14 G 8079323.92 8079324.01 8079324.10 0.0534 0.0430

Moon 17408-05-04 11:31 G 8079324.89 8079324.98 8079325.08 0.2645 0.1836

Earth 17408-05-04 12:28 G 8079324.93 8079325.02 8079325.12 0.2648 0.1792 *

Jupiter 17408-08-01 08:09 G 8079413.72 8079413.84 8079413.96 0.0537 0.0316

Moon 17410-11-02 14:52 G 8080237.03 8080237.12 8080237.21 0.2686 0.1886

Earth 17410-11-02 15:50 G 8080237.07 8080237.16 8080237.25 0.2684 0.1825 *

Jupiter 17413-12-19 12:28 G 8081379.90 8081380.02 8081380.14 0.0494 0.0295

Jupiter 17414-03-19 00:57 G 8081469.42 8081469.54 8081469.67 0.0491 0.0275

Mars 17416-11-15 03:21 G 8082441.51 8082441.64 8082441.76 0.1587 0.0763

Saturn 17417-05-03 11:02 G 8082610.86 8082610.96 8082611.05 0.0279 0.0209

Saturn 17417-07-31 01:40 G 8082699.43 8082699.57 8082699.72 0.0279 0.0104

Saturn 17417-10-27 17:02 G 8082788.06 8082788.21 8082788.36 0.0280 0.0005

Saturn 17418-01-24 08:38 G 8082876.72 8082876.86 8082877.00 0.0280 0.0116

Saturn 17418-04-23 00:28 G 8082965.44 8082965.52 8082965.61 0.0280 0.0230

Jupiter 17420-05-20 09:21 G 8083723.74 8083723.89 8083724.03 0.0537 0.0138

Moon 17421-05-07 09:21 G 8084075.76 8084075.89 8084076.02 0.2651 0.0153

Earth 17421-05-07 10:19 G 8084075.80 8084075.93 8084076.06 0.2648 0.0051 *

Mars 17421-08-07 13:12 G 8084167.95 8084168.05 8084168.15 0.1951 0.1185

Venus 17423-01-14 14:52 G 8084693.05 8084693.12 8084693.19 0.3689 0.2916

Moon 17423-11-05 13:40 G 8084987.94 8084988.07 8084988.20 0.2689 0.0031

Earth 17423-11-05 14:09 G 8084987.96 8084988.09 8084988.22 0.2683 0.0088 *

Jupiter 17425-10-07 15:21 G 8085690.08 8085690.14 8085690.22 0.0494 0.0429

Jupiter 17426-01-05 03:36 G 8085779.51 8085779.65 8085779.80 0.0491 0.0136

Mars 17426-04-07 09:50 G 8085871.77 8085871.91 8085872.06 0.1588 0.0088

Venus 17428-07-30 10:19 G 8086716.82 8086716.93 8086717.03 0.3690 0.1372

Venus 17430-02-10 08:09 G 8087276.78 8087276.84 8087276.91 0.3681 0.3126

Mars 17430-12-28 18:00 G 8087598.12 8087598.25 8087598.38 0.1949 0.0044

Saturn 17431-09-12 22:19 G 8087856.36 8087856.43 8087856.51 0.0279 0.0244

Saturn 17431-12-10 14:38 G 8087944.97 8087945.11 8087945.25 0.0279 0.0129

Uranus 17432-01-13 18:57 G 8087979.25 8087979.29 8087979.36 0.0145 0.0134

Saturn 17432-03-08 06:28 G 8088033.62 8088033.77 8088033.93 0.0279 0.0018

Jupiter 17432-03-08 10:48 G 8088033.80 8088033.95 8088034.10 0.0536 0.0037 *

Uranus 17432-04-11 00:43 G 8088067.44 8088067.53 8088067.64 0.0145 0.0110

Saturn 17432-06-04 21:50 G 8088122.27 8088122.41 8088122.56 0.0279 0.0091

Uranus 17432-07-08 06:14 G 8088155.65 8088155.76 8088155.90 0.0145 0.0086

Saturn 17432-09-01 12:57 G 8088210.93 8088211.04 8088211.15 0.0278 0.0196

Uranus 17432-10-04 12:14 G 8088243.86 8088244.01 8088244.15 0.0145 0.0061

Uranus 17432-12-31 17:45 G 8088332.09 8088332.24 8088332.40 0.0145 0.0037

Uranus 17433-03-29 23:45 G 8088420.33 8088420.49 8088420.65 0.0145 0.0012

Uranus 17433-06-26 05:31 G 8088508.57 8088508.73 8088508.89 0.0145 0.0013

Uranus 17433-09-22 11:16 G 8088596.82 8088596.97 8088597.13 0.0145 0.0039

Uranus 17433-12-19 17:16 G 8088685.08 8088685.22 8088685.37 0.0145 0.0064

Venus 17434-02-13 05:16 G 8088740.60 8088740.72 8088740.83 0.3690 0.0168

Neptune 17434-03-13 11:45 G 8088768.97 8088768.99 8088769.04 0.0088 0.0085

Uranus 17434-03-17 23:02 G 8088773.34 8088773.46 8088773.60 0.0145 0.0090

Moon 17434-05-10 07:12 G 8088826.70 8088826.80 8088826.89 0.2654 0.1723

Earth 17434-05-10 07:40 G 8088826.73 8088826.82 8088826.91 0.2649 0.1780 *

Neptune 17434-06-09 13:40 G 8088857.01 8088857.07 8088857.15 0.0088 0.0078

Uranus 17434-06-14 05:16 G 8088861.63 8088861.72 8088861.82 0.0145 0.0115

Neptune 17434-09-05 15:50 G 8088945.08 8088945.16 8088945.26 0.0088 0.0070

Uranus 17434-09-10 11:16 G 8088949.94 8088949.97 8088950.01 0.0145 0.0141

Neptune 17434-12-02 17:45 G 8089033.14 8089033.24 8089033.36 0.0088 0.0063

Neptune 17435-02-28 19:55 G 8089121.21 8089121.33 8089121.45 0.0088 0.0055

Neptune 17435-05-27 21:50 G 8089209.29 8089209.41 8089209.55 0.0088 0.0048

Neptune 17435-08-24 00:00 G 8089297.37 8089297.50 8089297.64 0.0088 0.0040

Venus 17435-08-27 06:28 G 8089300.65 8089300.77 8089300.89 0.3681 0.1311

Mars 17435-08-28 17:02 G 8089302.07 8089302.21 8089302.34 0.1589 0.0603

Neptune 17435-11-20 02:09 G 8089385.44 8089385.59 8089385.73 0.0088 0.0033

Neptune 17436-02-16 04:04 G 8089473.52 8089473.67 8089473.82 0.0088 0.0025

Neptune 17436-05-14 06:14 G 8089561.61 8089561.76 8089561.91 0.0088 0.0017

Neptune 17436-08-10 08:24 G 8089649.69 8089649.85 8089650.00 0.0088 0.0010

Neptune 17436-11-06 10:19 G 8089737.78 8089737.93 8089738.09 0.0088 0.0003

Earth 17436-11-07 12:43 G 8089738.95 8089739.03 8089739.12 0.2683 0.2058

Moon 17436-11-07 12:57 G 8089738.96 8089739.04 8089739.12 0.2690 0.2089 *

Neptune 17437-02-02 12:28 G 8089825.86 8089826.02 8089826.18 0.0088 0.0006

Neptune 17437-05-01 14:38 G 8089913.95 8089914.11 8089914.27 0.0088 0.0014

Neptune 17437-07-28 16:33 G 8090002.05 8090002.19 8090002.35 0.0088 0.0022

Jupiter 17437-10-24 06:00 G 8090089.60 8090089.75 8090089.90 0.0492 0.0016

Neptune 17437-10-24 18:43 G 8090090.14 8090090.28 8090090.44 0.0088 0.0030

Neptune 17438-01-20 21:07 G 8090178.23 8090178.38 8090178.52 0.0088 0.0037

Neptune 17438-04-18 23:02 G 8090266.33 8090266.46 8090266.60 0.0088 0.0045

Neptune 17438-07-16 01:12 G 8090354.43 8090354.55 8090354.68 0.0088 0.0053

Neptune 17438-10-12 03:21 G 8090442.53 8090442.64 8090442.76 0.0088 0.0061

Neptune 17439-01-08 05:31 G 8090530.64 8090530.73 8090530.84 0.0088 0.0069

Neptune 17439-04-06 07:40 G 8090618.76 8090618.82 8090618.91 0.0088 0.0077

Neptune 17439-07-03 09:50 G 8090706.89 8090706.91 8090706.96 0.0088 0.0085

Venus 17439-08-30 00:00 G 8090764.40 8090764.50 8090764.60 0.3691 0.1557

Mars 17440-05-19 22:19 G 8091028.33 8091028.43 8091028.54 0.1947 0.1143

Venus 17441-03-12 05:16 G 8091324.59 8091324.72 8091324.84 0.3680 0.0637

Jupiter 17443-12-26 11:31 G 8092343.85 8092343.98 8092344.12 0.0535 0.0217

Jupiter 17444-03-25 06:57 G 8092433.76 8092433.79 8092433.83 0.0538 0.0523

Mars 17445-01-18 00:00 G 8092732.42 8092732.50 8092732.59 0.1591 0.1263

Venus 17445-03-14 18:28 G 8092788.20 8092788.27 8092788.34 0.3691 0.2932

Saturn 17446-09-20 10:33 G 8093342.88 8093342.94 8093343.02 0.0279 0.0249

Venus 17446-09-26 04:19 G 8093348.59 8093348.68 8093348.77 0.3680 0.2651

Saturn 17446-12-18 01:26 G 8093431.44 8093431.56 8093431.69 0.0279 0.0145

Mars 17446-12-24 20:52 G 8093438.35 8093438.37 8093438.40 0.1586 0.1555

Saturn 17447-03-16 16:33 G 8093520.04 8093520.19 8093520.35 0.0280 0.0038

Saturn 17447-06-13 08:09 G 8093608.69 8093608.84 8093608.99 0.0280 0.0073

Saturn 17447-09-10 00:00 G 8093697.38 8093697.50 8093697.62 0.0280 0.0186

Jupiter 17449-08-12 08:38 G 8094399.71 8094399.86 8094400.00 0.0493 0.0150

Jupiter 17449-11-09 21:21 G 8094489.32 8094489.39 8094489.47 0.0490 0.0425

Moon 17454-05-05 17:02 G 8096127.11 8096127.21 8096127.31 0.2645 0.1604

Earth 17454-05-05 18:00 G 8096127.14 8096127.25 8096127.36 0.2648 0.1405 *

Jupiter 17455-10-14 11:16 G 8096653.87 8096653.97 8096654.06 0.0534 0.0417

Jupiter 17456-01-12 07:12 G 8096743.68 8096743.80 8096743.91 0.0537 0.0328

Mars 17456-05-16 03:36 G 8096868.52 8096868.65 8096868.77 0.1587 0.0860

Moon 17456-11-02 20:24 G 8097039.25 8097039.35 8097039.45 0.2686 0.1648

Earth 17456-11-02 21:21 G 8097039.28 8097039.39 8097039.50 0.2684 0.1434 *

Saturn 17461-01-30 00:14 G 8098588.48 8098588.51 8098588.55 0.0280 0.0272

Mars 17461-02-05 13:26 G 8098594.97 8098595.06 8098595.16 0.1951 0.1306

Saturn 17461-04-28 16:33 G 8098677.06 8098677.19 8098677.32 0.0280 0.0157

Jupiter 17461-05-31 11:16 G 8098709.85 8098709.97 8098710.09 0.0494 0.0287

Saturn 17461-07-26 08:38 G 8098765.70 8098765.86 8098766.01 0.0280 0.0044

Jupiter 17461-08-28 23:45 G 8098799.37 8098799.49 8098799.62 0.0491 0.0284

Saturn 17461-10-23 00:00 G 8098854.36 8098854.50 8098854.66 0.0279 0.0067

Saturn 17462-01-19 15:07 G 8098943.02 8098943.13 8098943.26 0.0279 0.0173

Saturn 17462-04-18 06:14 G 8099031.74 8099031.76 8099031.77 0.0279 0.0276

Mars 17465-10-06 10:19 G 8100298.79 8100298.93 8100299.08 0.1588 0.0176

Moon 17467-05-08 14:38 G 8100877.99 8100878.11 8100878.24 0.2652 0.0355

Earth 17467-05-08 15:36 G 8100878.02 8100878.15 8100878.28 0.2648 0.0395 *

Jupiter 17467-10-31 07:55 G 8101053.68 8101053.83 8101053.97 0.0536 0.0144

Moon 17469-11-05 19:12 G 8101790.18 8101790.30 8101790.43 0.2690 0.0506

Earth 17469-11-05 19:40 G 8101790.19 8101790.32 8101790.44 0.2683 0.0480 *

Mars 17470-06-28 18:14 G 8102025.13 8102025.26 8102025.39 0.1949 0.0158

Jupiter 17473-03-19 14:09 G 8103020.02 8103020.09 8103020.17 0.0494 0.0422

Jupiter 17473-06-17 02:24 G 8103109.45 8103109.60 8103109.74 0.0492 0.0144

Uranus 17474-05-02 21:21 G 8103429.34 8103429.39 8103429.46 0.0133 0.0122

Uranus 17474-07-30 01:55 G 8103517.49 8103517.58 8103517.68 0.0133 0.0102

Uranus 17474-10-26 06:14 G 8103605.64 8103605.76 8103605.88 0.0133 0.0084

Uranus 17475-01-22 10:19 G 8103693.81 8103693.93 8103694.07 0.0133 0.0066

Mars 17475-02-26 17:16 G 8103729.08 8103729.22 8103729.36 0.1589 0.0501

Uranus 17475-04-20 14:38 G 8103781.97 8103782.11 8103782.26 0.0133 0.0047

Uranus 17475-07-17 18:57 G 8103870.14 8103870.29 8103870.44 0.0133 0.0028

Uranus 17475-10-13 23:02 G 8103958.31 8103958.46 8103958.62 0.0133 0.0010

Uranus 17476-01-10 03:07 G 8104046.48 8104046.63 8104046.79 0.0133 0.0010

Saturn 17476-02-07 12:28 G 8104075.01 8104075.02 8104075.04 0.0279 0.0277

Uranus 17476-04-07 07:26 G 8104134.66 8104134.81 8104134.95 0.0133 0.0027

Saturn 17476-05-06 03:07 G 8104163.51 8104163.63 8104163.75 0.0279 0.0174

Uranus 17476-07-04 11:31 G 8104222.84 8104222.98 8104223.12 0.0134 0.0045

Saturn 17476-08-02 18:00 G 8104252.11 8104252.25 8104252.40 0.0279 0.0068

Uranus 17476-09-30 15:21 G 8104311.01 8104311.14 8104311.28 0.0134 0.0063

Saturn 17476-10-30 09:21 G 8104340.74 8104340.89 8104341.05 0.0280 0.0042

Uranus 17476-12-27 19:26 G 8104399.20 8104399.31 8104399.43 0.0134 0.0080

Saturn 17477-01-27 01:12 G 8104429.42 8104429.55 8104429.68 0.0280 0.0153

Uranus 17477-03-25 23:31 G 8104487.38 8104487.48 8104487.58 0.0134 0.0098

Saturn 17477-04-25 17:02 G 8104518.17 8104518.21 8104518.26 0.0280 0.0268

Uranus 17477-06-22 03:21 G 8104575.57 8104575.64 8104575.72 0.0134 0.0116

Uranus 17477-09-18 07:26 G 8104663.80 8104663.81 8104663.82 0.0134 0.0133

Jupiter 17479-08-19 08:38 G 8105363.71 8105363.86 8105364.01 0.0536 0.0039

Venus 17479-08-21 13:26 G 8105365.97 8105366.06 8105366.14 0.3689 0.2429

Mars 17479-11-18 22:48 G 8105455.34 8105455.45 8105455.56 0.1947 0.1013

Moon 17480-05-10 12:43 G 8105628.95 8105629.03 8105629.10 0.2655 0.2073

Earth 17480-05-10 12:57 G 8105628.97 8105629.04 8105629.11 0.2649 0.2141 *

Earth 17482-11-08 18:14 G 8106541.21 8106541.26 8106541.31 0.2682 0.2461

Moon 17482-11-08 18:28 G 8106541.23 8106541.27 8106541.32 0.2689 0.2486 *

Mars 17484-07-19 00:14 G 8107159.42 8107159.51 8107159.61 0.1591 0.1169

Venus 17485-03-06 08:38 G 8107389.74 8107389.86 8107389.97 0.3690 0.0911

Jupiter 17485-04-05 05:02 G 8107419.56 8107419.71 8107419.86 0.0492 0.0008

Venus 17486-09-17 07:26 G 8107949.72 8107949.81 8107949.90 0.3681 0.2577

Saturn	17490-09-15 15:50 G	8109409.05	8109409.16	8109409.27	0.0279	0.0201
Venus	17490-09-20 03:36 G	8109413.53	8109413.65	8109413.76	0.3690	0.0581
Saturn	17490-12-13 07:55 G	8109497.68	8109497.83	8109497.98	0.0279	0.0088
Saturn	17491-03-11 23:31 G	8109586.33	8109586.48	8109586.64	0.0279	0.0023
Jupiter	17491-06-07 09:50 G	8109673.78	8109673.91	8109674.05	0.0535	0.0214
Saturn	17491-06-08 14:52 G	8109674.99	8109675.12	8109675.26	0.0279	0.0130
Saturn	17491-09-05 05:45 G	8109763.66	8109763.74	8109763.82	0.0278	0.0235
Jupiter	17491-09-05 05:31 G	8109763.70	8109763.73	8109763.75	0.0538	0.0527 *
Venus	17492-04-02 05:45 G	8109973.62	8109973.74	8109973.87	0.3681	0.0721
Mars	17495-11-15 03:50 G	8111295.54	8111295.66	8111295.78	0.1587	0.0959
Venus	17496-04-04 22:19 G	8111437.33	8111437.43	8111437.52	0.3691	0.1997
Jupiter	17497-01-22 07:26 G	8111729.67	8111729.81	8111729.95	0.0493	0.0138
Jupiter	17497-04-21 20:09 G	8111819.28	8111819.34	8111819.41	0.0490	0.0436
Venus	17497-10-17 04:33 G	8111997.57	8111997.69	8111997.81	0.3680	0.1240
Moon	17500-05-06 22:19 G	8112929.32	8112929.43	8112929.55	0.2647	0.1091
Earth	17500-05-06 23:16 G	8112929.36	8112929.47	8112929.59	0.2648	0.1032 *
Mars	17500-08-07 13:40 G	8113021.98	8113022.07	8113022.15	0.1951	0.1412
Venus	17501-10-20 16:33 G	8113461.15	8113461.19	8113461.24	0.3691	0.3361
Moon	17502-11-05 01:55 G	8113841.46	8113841.58	8113841.69	0.2687	0.1090
Earth	17502-11-05 02:38 G	8113841.50	8113841.61	8113841.73	0.2684	0.1050 *
Jupiter	17503-03-27 10:48 G	8113983.85	8113983.95	8113984.05	0.0535	0.0394
Venus	17503-05-04 04:04 G	8114021.61	8114021.67	8114021.72	0.3679	0.3308
Jupiter	17503-06-25 06:43 G	8114073.67	8114073.78	8114073.89	0.0538	0.0353
Mars	17505-04-07 10:33 G	8114725.80	8114725.94	8114726.09	0.1588	0.0273
Saturn	17505-09-24 02:38 G	8114895.52	8114895.61	8114895.71	0.0279	0.0216
Saturn	17505-12-21 17:31 G	8114984.09	8114984.23	8114984.37	0.0279	0.0111
Saturn	17506-03-20 08:38 G	8115072.71	8115072.86	8115073.02	0.0280	0.0009
Saturn	17506-06-17 00:14 G	8115161.37	8115161.51	8115161.66	0.0280	0.0108
Saturn	17506-09-13 16:04 G	8115250.08	8115250.17	8115250.27	0.0280	0.0222
Jupiter	17508-11-11 10:04 G	8116039.80	8116039.92	8116040.05	0.0494	0.0276

Jupiter 17509-02-08 22:48 G 8116129.32 8116129.45 8116129.57 0.0491 0.0294

Mars 17509-12-28 18:28 G 8116452.14 8116452.27 8116452.39 0.1950 0.0280

Moon 17513-05-09 20:09 G 8117680.22 8117680.34 8117680.46 0.2652 0.0580

Earth 17513-05-09 20:52 G 8117680.25 8117680.37 8117680.50 0.2649 0.0775 *

Mars 17514-08-28 17:31 G 8118156.09 8118156.23 8118156.37 0.1589 0.0404

Jupiter 17515-04-13 06:43 G 8118383.64 8118383.78 8118383.93 0.0536 0.0160

Moon 17515-11-08 00:57 G 8118592.41 8118592.54 8118592.66 0.2690 0.0777

Earth 17515-11-08 01:12 G 8118592.42 8118592.55 8118592.67 0.2683 0.0885 *

Uranus 17516-02-04 01:55 G 8118680.52 8118680.58 8118680.66 0.0145 0.0129

Pluto 17516-04-19 01:26 G 8118755.51 8118755.56 8118755.62 0.0071 0.0064

Uranus 17516-05-02 07:40 G 8118768.72 8118768.82 8118768.93 0.0145 0.0105

Pluto 17516-07-16 01:55 G 8118843.51 8118843.58 8118843.68 0.0071 0.0055

Uranus 17516-07-29 13:12 G 8118856.93 8118857.05 8118857.19 0.0145 0.0081

Pluto 17516-10-12 02:38 G 8118931.52 8118931.61 8118931.72 0.0071 0.0046

Uranus 17516-10-25 18:57 G 8118945.15 8118945.29 8118945.44 0.0145 0.0057

Pluto 17517-01-08 03:36 G 8119019.53 8119019.65 8119019.76 0.0071 0.0036

Uranus 17517-01-22 00:43 G 8119033.38 8119033.53 8119033.69 0.0145 0.0032

Pluto 17517-04-06 04:04 G 8119107.55 8119107.67 8119107.80 0.0071 0.0027

Uranus 17517-04-20 06:28 G 8119121.61 8119121.77 8119121.94 0.0145 0.0008

Neptune 17517-06-11 09:50 G 8119173.87 8119173.91 8119173.98 0.0089 0.0084

Pluto 17517-07-03 04:48 G 8119195.57 8119195.70 8119195.83 0.0071 0.0017

Uranus 17517-07-17 12:28 G 8119209.86 8119210.02 8119210.18 0.0145 0.0018

Neptune 17517-09-07 12:28 G 8119261.94 8119262.02 8119262.10 0.0089 0.0076

Pluto 17517-09-29 05:31 G 8119283.60 8119283.73 8119283.86 0.0071 0.0008

Uranus 17517-10-13 18:14 G 8119298.11 8119298.26 8119298.42 0.0145 0.0043

Neptune 17517-12-04 14:38 G 8119350.01 8119350.11 8119350.22 0.0089 0.0067

Pluto 17517-12-26 06:14 G 8119371.63 8119371.76 8119371.89 0.0071 0.0002

Uranus 17518-01-10 00:14 G 8119386.37 8119386.51 8119386.65 0.0145 0.0069

Neptune 17518-03-02 16:48 G 8119438.09 8119438.20 8119438.33 0.0089 0.0059

Pluto 17518-03-24 06:57 G 8119459.66 8119459.79 8119459.92 0.0071 0.0011

Uranus 17518-04-08 06:00 G 8119474.64 8119474.75 8119474.88 0.0145 0.0095

Neptune 17518-05-29 19:12 G 8119526.17 8119526.30 8119526.44 0.0089 0.0051

Pluto 17518-06-20 07:40 G 8119547.69 8119547.82 8119547.94 0.0072 0.0021

Uranus 17518-07-05 12:14 G 8119562.92 8119563.01 8119563.10 0.0145 0.0120

Neptune 17518-08-25 21:21 G 8119614.26 8119614.39 8119614.54 0.0089 0.0043

Pluto 17518-09-16 08:09 G 8119635.73 8119635.84 8119635.97 0.0072 0.0031

Neptune 17518-11-21 23:31 G 8119702.34 8119702.48 8119702.64 0.0089 0.0035

Pluto 17518-12-13 08:52 G 8119723.77 8119723.87 8119723.98 0.0072 0.0041

Neptune 17519-02-18 01:55 G 8119790.43 8119790.58 8119790.74 0.0089 0.0026

Pluto 17519-03-11 09:21 G 8119811.81 8119811.89 8119812.00 0.0072 0.0051

Neptune 17519-05-17 04:04 G 8119878.52 8119878.67 8119878.83 0.0089 0.0018

Mars 17519-05-20 23:02 G 8119882.35 8119882.46 8119882.57 0.1947 0.0889

Pluto 17519-06-07 10:19 G 8119899.86 8119899.93 8119900.00 0.0072 0.0061

Neptune 17519-08-13 06:14 G 8119966.61 8119966.76 8119966.92 0.0089 0.0010

Pluto 17519-09-03 11:02 G 8119987.94 8119987.96 8119987.99 0.0072 0.0071

Neptune 17519-11-09 08:38 G 8120054.70 8120054.86 8120055.02 0.0089 0.0002

Saturn 17520-02-03 17:16 G 8120141.13 8120141.22 8120141.31 0.0280 0.0233

Neptune 17520-02-05 10:48 G 8120142.79 8120142.95 8120143.11 0.0089 0.0007

Saturn 17520-05-02 09:21 G 8120229.75 8120229.89 8120230.04 0.0280 0.0118

Neptune 17520-05-03 12:57 G 8120230.88 8120231.04 8120231.19 0.0089 0.0015

Saturn 17520-07-30 01:26 G 8120318.40 8120318.56 8120318.71 0.0280 0.0010

Neptune 17520-07-30 15:07 G 8120318.98 8120319.13 8120319.28 0.0089 0.0023

Jupiter 17520-08-30 12:43 G 8120349.96 8120350.03 8120350.11 0.0495 0.0415

Saturn 17520-10-26 16:48 G 8120407.06 8120407.20 8120407.34 0.0280 0.0103

Neptune 17520-10-26 17:02 G 8120407.07 8120407.21 8120407.36 0.0089 0.0031 *

Jupiter 17520-11-28 00:57 G 8120439.40 8120439.54 8120439.69 0.0492 0.0153

Neptune 17521-01-22 19:12 G 8120495.16 8120495.30 8120495.45 0.0089 0.0039

Saturn 17521-01-23 07:55 G 8120495.73 8120495.83 8120495.93 0.0279 0.0210

Neptune 17521-04-20 21:21 G 8120583.26 8120583.39 8120583.53 0.0089 0.0046

Neptune 17521-07-17 23:16 G 8120671.36 8120671.47 8120671.60 0.0089 0.0055

Neptune 17521-10-14 01:26 G 8120759.46 8120759.56 8120759.68 0.0089 0.0062

Neptune 17522-01-10 03:21 G 8120847.56 8120847.64 8120847.75 0.0089 0.0071

Neptune 17522-04-08 05:45 G 8120935.67 8120935.74 8120935.82 0.0089 0.0078

Neptune 17522-07-05 07:40 G 8121023.79 8121023.82 8121023.87 0.0089 0.0086

Mars 17524-01-19 00:43 G 8121586.42 8121586.53 8121586.63 0.1591 0.1069

Moon 17526-05-12 18:14 G 8122431.22 8122431.26 8122431.29 0.2656 0.2555

Earth 17526-05-12 18:14 G 8122431.22 8122431.26 8122431.30 0.2649 0.2503 *

Jupiter 17527-01-30 07:26 G 8122693.66 8122693.81 8122693.96 0.0535 0.0029

Venus 17530-09-12 16:19 G 8124015.15 8124015.18 8124015.21 0.3689 0.3526

Jupiter 17532-09-16 03:36 G 8124749.50 8124749.65 8124749.80 0.0493 0.0017

Moon 17533-05-05 06:14 G 8124980.73 8124980.76 8124980.79 0.2643 0.2545

Earth 17533-05-05 06:57 G 8124980.75 8124980.79 8124980.83 0.2648 0.2484 *

Saturn 17535-02-11 04:33 G 8125627.63 8125627.69 8125627.77 0.0279 0.0243

Saturn 17535-05-10 19:26 G 8125716.18 8125716.31 8125716.44 0.0279 0.0138

Mars 17535-05-17 04:19 G 8125722.57 8125722.68 8125722.79 0.1586 0.1067

Saturn 17535-08-07 10:33 G 8125804.79 8125804.94 8125805.09 0.0279 0.0032

Moon 17535-11-03 08:52 G 8125892.85 8125892.87 8125892.89 0.2684 0.2634

Earth 17535-11-03 10:04 G 8125892.88 8125892.92 8125892.96 0.2684 0.2532 *

Saturn 17535-11-04 01:55 G 8125893.43 8125893.58 8125893.73 0.0279 0.0078

Saturn 17536-01-31 17:31 G 8125982.12 8125982.23 8125982.35 0.0280 0.0191

Venus 17536-03-28 11:45 G 8126038.89 8126038.99 8126039.09 0.3689 0.1952

Jupiter 17538-11-18 07:55 G 8127003.69 8127003.83 8127003.97 0.0535 0.0214

Jupiter 17539-02-16 03:21 G 8127093.62 8127093.64 8127093.67 0.0538 0.0525

Mars 17540-02-06 13:40 G 8127449.00 8127449.07 8127449.15 0.1951 0.1530

Venus 17541-10-12 06:57 G 8128062.67 8128062.79 8128062.91 0.3690 0.0435

Venus 17543-04-25 06:43 G 8128622.67 8128622.78 8128622.88 0.3681 0.2013

Jupiter 17544-07-05 06:28 G 8129059.63 8129059.77 8129059.92 0.0493 0.0123

Jupiter 17544-10-02 19:26 G 8129149.25 8129149.31 8129149.37 0.0491 0.0451

Mars 17544-10-06 10:48 G 8129152.81 8129152.95 8129153.10 0.1588 0.0376

Moon 17546-05-08 03:50 G 8129731.54 8129731.66 8129731.78 0.2649 0.0834

Earth 17546-05-08 04:48 G 8129731.57 8129731.70 8129731.82 0.2648 0.0646 *

Venus 17547-04-28 01:55 G 8130086.47 8130086.58 8130086.69 0.3690 0.1029

Moon 17548-11-05 07:26 G 8130643.69 8130643.81 8130643.93 0.2688 0.0814

Earth 17548-11-05 08:09 G 8130643.72 8130643.84 8130643.96 0.2683 0.0655 *

Venus 17548-11-08 05:16 G 8130646.59 8130646.72 8130646.84 0.3680 0.0152

Saturn 17549-06-22 16:33 G 8130873.17 8130873.19 8130873.21 0.0280 0.0276

Mars 17549-06-28 18:43 G 8130879.15 8130879.28 8130879.40 0.1950 0.0398

Saturn 17549-09-19 08:52 G 8130961.74 8130961.87 8130962.00 0.0279 0.0161

Saturn 17549-12-17 00:57 G 8131050.38 8131050.54 8131050.69 0.0279 0.0048

Saturn 17550-03-15 16:33 G 8131139.04 8131139.19 8131139.34 0.0279 0.0062

Saturn 17550-06-12 07:40 G 8131227.70 8131227.82 8131227.94 0.0279 0.0169

Jupiter 17550-09-06 08:52 G 8131313.77 8131313.87 8131313.98 0.0535 0.0393

Saturn 17550-09-08 22:33 G 8131316.41 8131316.44 8131316.47 0.0278 0.0273

Jupiter 17550-12-05 05:02 G 8131403.60 8131403.71 8131403.82 0.0538 0.0355

Venus 17552-11-10 20:24 G 8132110.27 8132110.35 8132110.44 0.3691 0.2434

Mars 17554-02-26 17:45 G 8132583.10 8132583.24 8132583.38 0.1589 0.0310

Venus 17554-05-25 04:04 G 8132670.56 8132670.67 8132670.78 0.3680 0.1867

Jupiter 17556-04-23 09:07 G 8133369.75 8133369.88 8133370.00 0.0494 0.0265

Jupiter 17556-07-21 21:36 G 8133459.28 8133459.40 8133459.52 0.0491 0.0305

Uranus 17558-05-24 04:19 G 8134130.61 8134130.68 8134130.76 0.0133 0.0118

Uranus 17558-08-20 08:24 G 8134218.76 8134218.85 8134218.97 0.0133 0.0100

Uranus 17558-11-16 12:57 G 8134306.92 8134307.04 8134307.17 0.0133 0.0080

Mars 17558-11-18 23:02 G 8134309.34 8134309.46 8134309.58 0.1948 0.0786

Uranus 17559-02-12 17:16 G 8134395.09 8134395.22 8134395.36 0.0133 0.0061

Moon 17559-05-11 01:26 G 8134482.45 8134482.56 8134482.68 0.2653 0.1111

Earth 17559-05-11 02:24 G 8134482.48 8134482.60 8134482.71 0.2649 0.1136 *

Uranus 17559-05-11 21:36 G 8134483.25 8134483.40 8134483.54 0.0133 0.0043

Uranus 17559-08-08 01:40 G 8134571.42 8134571.57 8134571.72 0.0133 0.0025

Uranus 17559-11-04 06:00 G 8134659.60 8134659.75 8134659.90 0.0133 0.0006

Uranus 17560-01-31 10:04 G 8134747.77 8134747.92 8134748.07 0.0133 0.0012

Uranus 17560-04-28 14:09 G 8134835.94 8134836.09 8134836.24 0.0133 0.0030

Uranus 17560-07-25 18:14 G 8134924.12 8134924.26 8134924.40 0.0133 0.0048

Uranus 17560-10-21 22:04 G 8135012.30 8135012.42 8135012.56 0.0133 0.0067

Uranus 17561-01-18 02:09 G 8135100.48 8135100.59 8135100.71 0.0134 0.0084

Uranus 17561-04-16 06:14 G 8135188.67 8135188.76 8135188.86 0.0134 0.0102

Uranus 17561-07-13 10:04 G 8135276.87 8135276.92 8135277.00 0.0134 0.0120

Moon 17561-11-08 06:14 G 8135394.65 8135394.76 8135394.88 0.2690 0.1343

Earth 17561-11-08 06:28 G 8135394.66 8135394.77 8135394.89 0.2683 0.1283 *

Jupiter 17562-09-23 06:14 G 8135713.62 8135713.76 8135713.90 0.0537 0.0180

Mars 17563-07-20 00:57 G 8136013.43 8136013.54 8136013.65 0.1591 0.0974

Saturn 17564-09-26 18:43 G 8136448.17 8136448.28 8136448.40 0.0279 0.0182

Saturn 17564-12-24 09:50 G 8136536.76 8136536.91 8136537.05 0.0279 0.0076

Saturn 17565-03-23 00:57 G 8136625.39 8136625.54 8136625.70 0.0280 0.0033

Saturn 17565-06-19 16:33 G 8136714.06 8136714.19 8136714.33 0.0280 0.0144

Saturn 17565-09-16 08:38 G 8136802.81 8136802.86 8136802.92 0.0280 0.0258

Jupiter 17568-02-10 11:45 G 8137679.91 8137679.99 8137680.08 0.0494 0.0402

Jupiter 17568-05-10 00:00 G 8137769.36 8137769.50 8137769.64 0.0492 0.0164

Jupiter 17574-07-12 06:28 G 8140023.62 8140023.77 8140023.92 0.0535 0.0014

Mars 17574-11-15 04:33 G 8140149.59 8140149.69 8140149.79 0.1587 0.1167

Saturn 17579-02-06 10:04 G 8141693.81 8141693.92 8141694.04 0.0280 0.0193

Saturn 17579-05-06 02:09 G 8141782.45 8141782.59 8141782.75 0.0280 0.0080

Moon 17579-05-06 11:31 G 8141782.91 8141782.98 8141783.05 0.2644 0.2203

Earth 17579-05-06 12:14 G 8141782.94 8141783.01 8141783.09 0.2648 0.2099 *

Saturn 17579-08-02 18:00 G 8141871.10 8141871.25 8141871.41 0.0280 0.0033

Mars 17579-08-07 14:09 G 8141876.02 8141876.09 8141876.15 0.1952 0.1659

Saturn 17579-10-30 09:21 G 8141959.76 8141959.89 8141960.03 0.0280 0.0141

Saturn 17580-01-27 00:28 G 8142048.45 8142048.52 8142048.59 0.0279 0.0246

Jupiter 17580-02-27 02:24 G 8142079.45 8142079.60 8142079.75 0.0493 0.0022

Moon 17581-11-03 14:24 G 8142695.04 8142695.10 8142695.16 0.2684 0.2312

Earth 17581-11-03 15:21 G 8142695.07 8142695.14 8142695.22 0.2684 0.2156 *

Mars 17584-04-06 11:16 G 8143579.83 8143579.97 8143580.11 0.1588 0.0476

Jupiter 17586-04-30 06:43 G 8144333.64 8144333.78 8144333.92 0.0534 0.0203

Jupiter 17586-07-29 02:09 G 8144423.58 8144423.59 8144423.61 0.0537 0.0534

Venus 17587-04-19 14:52 G 8144688.05 8144688.12 8144688.18 0.3689 0.3031

Mars 17588-12-27 18:43 G 8145306.16 8145306.28 8145306.40 0.1950 0.0507

Jupiter 17591-12-16 05:02 G 8146389.57 8146389.71 8146389.86 0.0493 0.0117

Jupiter 17592-03-14 17:45 G 8146479.20 8146479.24 8146479.30 0.0491 0.0459

Moon 17592-05-08 09:07 G 8146533.75 8146533.88 8146534.01 0.2650 0.0362

Earth 17592-05-08 10:04 G 8146533.80 8146533.92 8146534.05 0.2648 0.0277 *

Venus 17592-11-02 10:19 G 8146711.82 8146711.93 8146712.03 0.3690 0.1476

Mars 17593-08-27 18:14 G 8147010.11 8147010.26 8147010.40 0.1589 0.0208

Saturn 17594-02-13 21:07 G 8147180.29 8147180.38 8147180.49 0.0278 0.0206

Saturn 17594-05-13 12:00 G 8147268.86 8147269.00 8147269.14 0.0279 0.0101

Venus 17594-05-16 07:55 G 8147271.77 8147271.83 8147271.88 0.3681 0.3255

Saturn 17594-08-10 03:07 G 8147357.48 8147357.63 8147357.79 0.0279 0.0007

Moon 17594-11-06 12:57 G 8147445.91 8147446.04 8147446.16 0.2689 0.0307

Earth 17594-11-06 13:26 G 8147445.94 8147446.06 8147446.19 0.2683 0.0282 *

Saturn 17594-11-06 18:43 G 8147446.14 8147446.28 8147446.42 0.0279 0.0117 *

Saturn 17595-02-03 10:33 G 8147534.85 8147534.94 8147535.03 0.0280 0.0230

Jupiter 17598-02-16 06:57 G 8148643.69 8148643.79 8148643.90 0.0534 0.0393

Jupiter 17598-05-17 03:07 G 8148733.52 8148733.63 8148733.74 0.0537 0.0354

Venus 17598-05-19 05:16 G 8148735.61 8148735.72 8148735.84 0.3690 0.0090

Mars 17598-05-19 23:16 G 8148736.35 8148736.47 8148736.59 0.1948 0.0656

Neptune 17598-09-12 09:50 G 8148851.91 8148851.91 8148851.91 0.0088 0.0088

Neptune 17598-12-09 11:16 G 8148939.93 8148939.97 8148940.05 0.0088 0.0082

Neptune 17599-03-07 13:40 G 8149027.99 8149028.07 8149028.16 0.0088 0.0073

Neptune 17599-06-03 15:21 G 8149116.06 8149116.14 8149116.26 0.0088 0.0066

Neptune 17599-08-30 17:31 G 8149204.12 8149204.23 8149204.36 0.0088 0.0059

Neptune 17599-11-26 19:26 G 8149292.20 8149292.31 8149292.45 0.0088 0.0051

Venus 17599-11-30 06:00 G 8149295.63 8149295.75 8149295.87 0.3681 0.1434

Neptune 17600-02-22 21:36 G 8149380.27 8149380.40 8149380.54 0.0088 0.0043

Uranus 17600-02-24 08:38 G 8149381.80 8149381.86 8149381.96 0.0145 0.0125

Neptune 17600-05-20 23:31 G 8149468.35 8149468.48 8149468.63 0.0088 0.0036

Uranus 17600-05-22 14:24 G 8149469.99 8149470.10 8149470.22 0.0145 0.0101

Neptune 17600-08-17 01:40 G 8149556.43 8149556.57 8149556.72 0.0088 0.0028

Uranus 17600-08-18 20:09 G 8149558.21 8149558.34 8149558.48 0.0145 0.0076

Neptune 17600-11-13 03:50 G 8149644.51 8149644.66 8149644.82 0.0088 0.0020

Uranus 17600-11-15 01:55 G 8149646.43 8149646.58 8149646.73 0.0145 0.0052

Neptune 17601-02-09 06:00 G 8149732.59 8149732.75 8149732.90 0.0088 0.0013

Uranus 17601-02-11 07:40 G 8149734.66 8149734.82 8149734.98 0.0145 0.0027

Neptune 17601-05-08 07:55 G 8149820.68 8149820.83 8149820.99 0.0088 0.0006

Uranus 17601-05-10 13:26 G 8149822.90 8149823.06 8149823.22 0.0145 0.0003

Neptune 17601-08-04 10:04 G 8149908.76 8149908.92 8149909.08 0.0088 0.0003

Uranus 17601-08-06 19:12 G 8149911.14 8149911.30 8149911.46 0.0145 0.0023

Neptune 17601-10-31 12:14 G 8149996.85 8149997.01 8149997.17 0.0088 0.0011

Uranus 17601-11-03 01:12 G 8149999.39 8149999.55 8149999.70 0.0145 0.0048

Pluto 17601-12-07 08:52 G 8150033.78 8150033.87 8150033.98 0.0074 0.0063

Neptune 17602-01-27 14:24 G 8150084.94 8150085.10 8150085.25 0.0088 0.0018

Uranus 17602-01-30 06:57 G 8150087.65 8150087.79 8150087.93 0.0145 0.0074

Pluto 17602-03-05 11:02 G 8150121.83 8150121.96 8150122.13 0.0073 0.0048

Neptune 17602-04-25 16:19 G 8150173.04 8150173.18 8150173.34 0.0088 0.0026

Uranus 17602-04-28 12:57 G 8150175.93 8150176.04 8150176.16 0.0145 0.0099

Pluto 17602-06-01 13:26 G 8150209.90 8150210.06 8150210.25 0.0073 0.0033

Neptune 17602-07-22 18:28 G 8150261.13 8150261.27 8150261.42 0.0088 0.0034

Uranus 17602-07-25 18:57 G 8150264.21 8150264.29 8150264.38 0.0145 0.0125

Pluto 17602-08-28 16:04 G 8150297.99 8150298.17 8150298.37 0.0073 0.0017

Neptune 17602-10-18 20:38 G 8150349.22 8150349.36 8150349.50 0.0088 0.0042

Pluto 17602-11-24 18:43 G 8150386.08 8150386.28 8150386.47 0.0073 0.0002

Neptune 17603-01-14 22:33 G 8150437.32 8150437.44 8150437.58 0.0088 0.0050

Mars 17603-01-18 01:12 G 8150440.43 8150440.55 8150440.67 0.1591 0.0879

Pluto 17603-02-20 21:07 G 8150474.19 8150474.38 8150474.57 0.0073 0.0013

Neptune 17603-04-13 00:43 G 8150525.42 8150525.53 8150525.66 0.0088 0.0058

Pluto 17603-05-19 23:16 G 8150562.30 8150562.47 8150562.66 0.0073 0.0028

Neptune 17603-07-10 02:52 G 8150613.53 8150613.62 8150613.74 0.0088 0.0066

Pluto 17603-08-16 01:40 G 8150650.42 8150650.57 8150650.73 0.0073 0.0043

Jupiter 17603-10-04 07:55 G 8150699.71 8150699.83 8150699.96 0.0494 0.0253

Neptune 17603-10-06 05:02 G 8150701.64 8150701.71 8150701.81 0.0088 0.0074

Pluto 17603-11-12 03:36 G 8150738.55 8150738.65 8150738.79 0.0073 0.0058

Venus 17603-12-03 00:14 G 8150759.40 8150759.51 8150759.61 0.3691 0.1480

Jupiter 17604-01-01 20:24 G 8150789.24 8150789.35 8150789.47 0.0491 0.0318

Neptune 17604-01-02 07:12 G 8150789.76 8150789.80 8150789.87 0.0088 0.0082

Pluto 17604-02-08 06:00 G 8150826.75 8150826.75 8150826.78 0.0072 0.0072

Moon 17605-05-11 07:12 G 8151284.69 8151284.80 8151284.90 0.2654 0.1377

Earth 17605-05-11 07:40 G 8151284.72 8151284.82 8151284.92 0.2649 0.1508 *

Venus 17605-06-15 04:33 G 8151319.57 8151319.69 8151319.82 0.3680 0.0491

Mars 17607-10-10 03:36 G 8152166.61 8152166.65 8152166.68 0.1945 0.1856

Moon 17607-11-09 12:00 G 8152196.90 8152197.00 8152197.10 0.2689 0.1625

Earth 17607-11-09 12:00 G 8152196.90 8152197.00 8152197.10 0.2683 0.1683 *

Saturn 17608-06-25 09:36 G 8152425.82 8152425.90 8152425.99 0.0280 0.0235

Saturn 17608-09-22 01:55 G 8152514.44 8152514.58 8152514.73 0.0280 0.0120

Saturn 17608-12-19 18:00 G 8152603.09 8152603.25 8152603.40 0.0279 0.0008

Saturn 17609-03-18 09:21 G 8152691.75 8152691.89 8152692.04 0.0279 0.0102

Saturn 17609-06-15 00:28 G 8152780.42 8152780.52 8152780.62 0.0279 0.0208

Venus 17609-06-17 18:43 G 8152783.21 8152783.28 8152783.35 0.3691 0.2868

Jupiter 17610-03-05 04:33 G 8153043.55 8153043.69 8153043.83 0.0537 0.0181

Venus 17610-12-30 03:50 G 8153343.56 8153343.66 8153343.75 0.3680 0.2510

Mars 17612-06-09 08:24 G 8153870.82 8153870.85 8153870.89 0.1592 0.1538

Mars 17614-05-16 04:48 G 8154576.61 8154576.70 8154576.79 0.1586 0.1267

Jupiter 17615-07-23 10:33 G 8155009.86 8155009.94 8155010.03 0.0494 0.0392

Jupiter 17615-10-20 22:48 G 8155099.31 8155099.45 8155099.59 0.0492 0.0173

Mars 17619-02-05 14:09 G 8156303.03 8156303.09 8156303.14 0.1951 0.1756

Jupiter 17621-12-22 05:45 G 8157353.58 8157353.74 8157353.89 0.0536 0.0017

Saturn 17623-07-03 20:38 G 8157912.30 8157912.36 8157912.43 0.0279 0.0249

Saturn 17623-09-30 11:31 G 8158000.85 8158000.98 8158001.11 0.0279 0.0145

Mars 17623-10-06 11:31 G 8158006.84 8158006.98 8158007.12 0.1588 0.0574

Saturn 17623-12-28 02:24 G 8158089.45 8158089.60 8158089.75 0.0279 0.0038

Saturn 17624-03-25 17:45 G 8158178.09 8158178.24 8158178.39 0.0279 0.0071

Saturn 17624-06-22 09:21 G 8158266.78 8158266.89 8158267.01 0.0280 0.0183

Moon 17625-05-06 16:48 G 8158585.11 8158585.20 8158585.29 0.2646 0.1860

Earth 17625-05-06 17:45 G 8158585.14 8158585.24 8158585.34 0.2648 0.1707 *

Jupiter 17627-08-09 01:12 G 8159409.40 8159409.55 8159409.71 0.0492 0.0037

Moon 17627-11-04 19:55 G 8159497.24 8159497.33 8159497.42 0.2685 0.1910

Earth 17627-11-04 20:52 G 8159497.27 8159497.37 8159497.46 0.2684 0.1772 *

Mars 17628-06-27 18:57 G 8159733.17 8159733.29 8159733.41 0.1950 0.0631

Mars 17633-02-25 18:28 G 8161437.12 8161437.27 8161437.42 0.1589 0.0108

Jupiter 17633-10-10 05:45 G 8161663.60 8161663.74 8161663.88 0.0534 0.0188

Saturn 17637-11-12 10:33 G 8163157.90 8163157.94 8163157.99 0.0281 0.0270

Mars 17637-11-17 23:45 G 8163163.36 8163163.49 8163163.61 0.1948 0.0534

Saturn 17638-02-09 03:07 G 8163246.50 8163246.63 8163246.76 0.0281 0.0154

Saturn 17638-05-08 19:12 G 8163335.15 8163335.30 8163335.45 0.0280 0.0040

Moon 17638-05-09 14:38 G 8163335.98 8163336.11 8163336.23 0.2650 0.0099

Earth 17638-05-09 15:36 G 8163336.02 8163336.15 8163336.28 0.2648 0.0123 *

Saturn 17638-08-05 10:48 G 8163423.80 8163423.95 8163424.10 0.0280 0.0071

Saturn 17638-11-02 02:09 G 8163512.47 8163512.59 8163512.71 0.0280 0.0179

Jupiter 17639-05-28 03:36 G 8163719.50 8163719.65 8163719.80 0.0494 0.0111

Jupiter 17639-08-25 16:33 G 8163809.14 8163809.19 8163809.23 0.0491 0.0465

Moon 17640-11-06 18:28 G 8164248.14 8164248.27 8164248.39 0.2689 0.0087

Earth 17640-11-06 18:57 G 8164248.16 8164248.29 8164248.42 0.2683 0.0120 *

Uranus 17642-06-13 10:48 G 8164831.88 8164831.95 8164832.04 0.0133 0.0115

Mars 17642-07-19 01:40 G 8164867.44 8164867.57 8164867.69 0.1591 0.0777

Uranus 17642-09-09 15:21 G 8164920.04 8164920.14 8164920.25 0.0133 0.0096

Uranus 17642-12-06 19:40 G 8165008.20 8165008.32 8165008.45 0.0133 0.0077

Uranus 17643-03-04 23:45 G 8165096.36 8165096.49 8165096.64 0.0133 0.0059

Uranus 17643-06-01 04:19 G 8165184.53 8165184.68 8165184.82 0.0133 0.0040

Uranus 17643-08-28 08:24 G 8165272.70 8165272.85 8165273.00 0.0133 0.0021

Uranus 17643-11-24 12:43 G 8165360.87 8165361.03 8165361.18 0.0133 0.0004

Venus 17643-11-24 13:26 G 8165360.97 8165361.06 8165361.14 0.3689 0.2538 *

Uranus 17644-02-20 16:48 G 8165449.05 8165449.20 8165449.35 0.0133 0.0016

Uranus 17644-05-18 20:52 G 8165537.23 8165537.37 8165537.52 0.0133 0.0034

Uranus 17644-08-15 00:57 G 8165625.40 8165625.54 8165625.68 0.0133 0.0052

Uranus 17644-11-11 05:02 G 8165713.58 8165713.71 8165713.84 0.0133 0.0070

Uranus 17645-02-07 08:52 G 8165801.77 8165801.87 8165801.99 0.0133 0.0088

Uranus 17645-05-06 12:57 G 8165889.96 8165890.04 8165890.14 0.0134 0.0105

Jupiter 17645-07-29 06:00 G 8165973.64 8165973.75 8165973.86 0.0534 0.0379

Uranus 17645-08-02 17:02 G 8165978.16 8165978.21 8165978.27 0.0134 0.0123

Jupiter 17645-10-27 01:55 G 8166063.47 8166063.58 8166063.69 0.0537 0.0364

Mars 17647-04-10 03:36 G 8166593.60 8166593.65 8166593.71 0.1945 0.1740

Venus 17649-06-09 08:38 G 8167384.75 8167384.86 8167384.97 0.3690 0.0996

Venus 17650-12-21 06:57 G 8167944.71 8167944.79 8167944.88 0.3681 0.2699

Jupiter 17651-03-16 06:14 G 8168029.64 8168029.76 8168029.89 0.0494 0.0250

Moon 17651-05-12 12:28 G 8168086.94 8168087.02 8168087.11 0.2655 0.1877

Earth 17651-05-12 12:57 G 8168086.95 8168087.04 8168087.13 0.2649 0.1872 *

Jupiter 17651-06-13 18:57 G 8168119.17 8168119.29 8168119.40 0.0492 0.0323

Mars 17651-12-09 08:38 G 8168297.81 8168297.86 8168297.92 0.1592 0.1442

Saturn 17652-11-19 23:31 G 8168644.45 8168644.48 8168644.51 0.0278 0.0270

Saturn 17653-02-16 14:09 G 8168732.97 8168733.09 8168733.21 0.0278 0.0168

Saturn 17653-05-16 05:02 G 8168821.56 8168821.71 8168821.86 0.0279 0.0062

Saturn 17653-08-12 20:09 G 8168910.19 8168910.34 8168910.49 0.0279 0.0047

Saturn 17653-11-09 11:45 G 8168998.86 8168998.99 8168999.12 0.0279 0.0158

Earth 17653-11-09 17:31 G 8168999.15 8168999.23 8168999.31 0.2683 0.2080

Moon 17653-11-09 17:45 G 8168999.17 8168999.24 8168999.31 0.2689 0.2183 *

Mars 17653-11-14 05:16 G 8169003.65 8169003.72 8169003.79 0.1586 0.1374

Saturn 17654-02-06 03:36 G 8169087.63 8169087.65 8169087.69 0.0280 0.0272

Venus 17654-12-24 03:50 G 8169408.54 8169408.66 8169408.77 0.3690 0.0510

Venus 17656-07-06 05:16 G 8169968.60 8169968.72 8169968.85 0.3681 0.0851

Jupiter 17657-08-15 02:24 G 8170373.46 8170373.60 8170373.75 0.0536 0.0179

Mars 17658-08-06 14:24 G 8170730.07 8170730.10 8170730.13 0.1952 0.1883

Venus 17660-07-08 22:33 G 8171432.34 8171432.44 8171432.53 0.3691 0.1927

Venus 17662-01-20 04:04 G 8171992.55 8171992.67 8171992.79 0.3680 0.1099

Jupiter 17663-01-02 09:21 G 8172339.80 8172339.89 8172339.98 0.0495 0.0383

Jupiter 17663-04-01 21:36 G 8172429.26 8172429.40 8172429.54 0.0492 0.0184

Mars 17663-04-06 11:45 G 8172433.86 8172433.99 8172434.13 0.1588 0.0677

Venus 17666-01-22 17:02 G 8173456.16 8173456.21 8173456.25 0.3691 0.3301

Saturn 17667-06-29 03:07 G 8173978.52 8173978.63 8173978.75 0.0280 0.0192

Venus 17667-08-06 03:21 G 8174016.57 8174016.64 8174016.70 0.3680 0.3151

Saturn 17667-09-25 19:26 G 8174067.16 8174067.31 8174067.46 0.0280 0.0077

Saturn 17667-12-23 11:16 G 8174155.82 8174155.97 8174156.12 0.0279 0.0034

Mars 17667-12-27 19:12 G 8174160.18 8174160.30 8174160.42 0.1950 0.0747

Saturn 17668-03-21 02:38 G 8174244.48 8174244.61 8174244.74 0.0279 0.0142

Saturn 17668-06-17 17:31 G 8174333.17 8174333.23 8174333.30 0.0279 0.0248

Jupiter 17669-06-03 03:36 G 8174683.50 8174683.65 8174683.80 0.0536 0.0005

Moon 17671-05-07 22:04 G 8175387.31 8175387.42 8175387.53 0.2647 0.1411

Earth 17671-05-07 23:16 G 8175387.36 8175387.47 8175387.58 0.2648 0.1329 *

Mars 17672-08-26 18:43 G 8175864.14 8175864.28 8175864.43 0.1589 0.0020

Moon 17673-11-05 01:12 G 8176299.45 8176299.55 8176299.66 0.2687 0.1469

Earth 17673-11-05 02:09 G 8176299.48 8176299.59 8176299.70 0.2684 0.1391 *

Jupiter 17675-01-19 00:00 G 8176739.35 8176739.50 8176739.65 0.0492 0.0042

Mars 17677-05-18 23:45 G 8177590.36 8177590.49 8177590.61 0.1948 0.0430

Jupiter 17681-03-22 04:33 G 8178993.55 8178993.69 8178993.84 0.0535 0.0177

Neptune 17681-12-10 07:26 G 8179256.79 8179256.81 8179256.84 0.0089 0.0088

Mars 17682-01-17 01:55 G 8179294.45 8179294.58 8179294.71 0.1591 0.0684

Neptune 17682-03-08 09:36 G 8179344.84 8179344.90 8179344.99 0.0089 0.0079

Neptune 17682-06-04 11:45 G 8179432.91 8179432.99 8179433.11 0.0089 0.0072

Saturn 17682-07-06 13:40 G 8179464.98 8179465.07 8179465.17 0.0279 0.0209

Neptune 17682-08-31 14:24 G 8179520.99 8179521.10 8179521.22 0.0089 0.0063

Saturn 17682-10-03 04:33 G 8179553.55 8179553.69 8179553.83 0.0279 0.0105

Neptune 17682-11-27 16:33 G 8179609.07 8179609.19 8179609.33 0.0089 0.0054

Saturn 17682-12-30 19:26 G 8179642.16 8179642.31 8179642.47 0.0279 0.0009

Neptune 17683-02-23 18:43 G 8179697.16 8179697.28 8179697.43 0.0089 0.0046

Saturn 17683-03-29 11:02 G 8179730.82 8179730.96 8179731.10 0.0279 0.0113

Neptune 17683-05-22 21:21 G 8179785.24 8179785.39 8179785.53 0.0089 0.0038

Saturn 17683-06-26 02:38 G 8179819.53 8179819.61 8179819.71 0.0280 0.0226

Neptune 17683-08-18 23:31 G 8179873.33 8179873.48 8179873.63 0.0089 0.0029

Neptune 17683-11-15 01:40 G 8179961.42 8179961.57 8179961.73 0.0089 0.0021

Uranus 17683-12-18 10:04 G 8179994.92 8179994.92 8179994.94 0.0145 0.0144

Neptune 17684-02-11 03:50 G 8180049.51 8180049.66 8180049.82 0.0089 0.0013

Uranus 17684-03-15 15:50 G 8180083.07 8180083.16 8180083.25 0.0145 0.0120

Neptune 17684-05-09 06:14 G 8180137.60 8180137.76 8180137.92 0.0089 0.0005

Moon 17684-05-09 19:55 G 8180138.21 8180138.33 8180138.46 0.2651 0.0382

Earth 17684-05-09 20:52 G 8180138.25 8180138.37 8180138.50 0.2649 0.0489 *

Uranus 17684-06-11 21:21 G 8180171.27 8180171.39 8180171.51 0.0145 0.0096

Neptune 17684-08-05 08:24 G 8180225.69 8180225.85 8180226.01 0.0089 0.0003

Uranus 17684-09-08 02:52 G 8180259.49 8180259.62 8180259.76 0.0145 0.0072

Neptune 17684-11-01 10:33 G 8180313.78 8180313.94 8180314.10 0.0089 0.0011

Uranus 17684-12-05 08:38 G 8180347.71 8180347.86 8180348.01 0.0145 0.0047

Neptune 17685-01-28 12:43 G 8180401.88 8180402.03 8180402.18 0.0089 0.0019

Uranus 17685-03-03 14:24 G 8180435.94 8180436.10 8180436.26 0.0145 0.0023

Neptune 17685-04-26 14:38 G 8180489.97 8180490.11 8180490.27 0.0089 0.0028

Uranus 17685-05-30 20:09 G 8180524.18 8180524.34 8180524.50 0.0145 0.0002

Neptune 17685-07-23 16:48 G 8180578.06 8180578.20 8180578.35 0.0089 0.0036

Uranus 17685-08-27 01:55 G 8180612.42 8180612.58 8180612.74 0.0145 0.0027

Neptune 17685-10-19 18:57 G 8180666.16 8180666.29 8180666.43 0.0089 0.0043

Uranus 17685-11-23 07:40 G 8180700.68 8180700.82 8180700.98 0.0145 0.0053

Neptune 17686-01-15 21:07 G 8180754.26 8180754.38 8180754.51 0.0089 0.0051

Uranus 17686-02-19 13:40 G 8180788.94 8180789.07 8180789.21 0.0145 0.0078

Neptune 17686-04-13 23:02 G 8180842.36 8180842.46 8180842.59 0.0089 0.0060

Uranus 17686-05-18 19:40 G 8180877.21 8180877.32 8180877.44 0.0145 0.0104

Neptune 17686-07-11 01:12 G 8180930.46 8180930.55 8180930.66 0.0089 0.0067

Uranus 17686-08-15 01:26 G 8180965.51 8180965.56 8180965.65 0.0145 0.0130

Neptune 17686-10-07 03:36 G 8181018.57 8181018.65 8181018.73 0.0089 0.0075

Mars 17686-10-09 04:04 G 8181020.60 8181020.67 8181020.74 0.1945 0.1605

Jupiter 17686-11-07 02:38 G 8181049.46 8181049.61 8181049.75 0.0493 0.0101

Moon 17686-11-08 00:00 G 8181050.37 8181050.50 8181050.62 0.2689 0.0471

Earth 17686-11-08 00:28 G 8181050.39 8181050.52 8181050.64 0.2683 0.0519 *

Neptune 17687-01-03 05:31 G 8181106.68 8181106.73 8181106.79 0.0089 0.0083

Jupiter 17687-02-04 15:21 G 8181139.11 8181139.14 8181139.18 0.0491 0.0475

Mars 17691-06-09 09:07 G 8182724.80 8182724.88 8182724.95 0.1592 0.1344

Jupiter 17693-01-08 04:48 G 8183303.59 8183303.70 8183303.81 0.0534 0.0366

Jupiter 17693-04-08 00:43 G 8183393.43 8183393.53 8183393.64 0.0537 0.0378

Mars 17693-05-15 05:31 G 8183430.68 8183430.73 8183430.78 0.1586 0.1476

Venus 17694-12-15 16:19 G 8184010.17 8184010.18 8184010.20 0.3689 0.3637

Saturn 17696-11-15 03:50 G 8184710.57 8184710.66 8184710.75 0.0281 0.0228

Saturn 17697-02-11 20:09 G 8184799.20 8184799.34 8184799.49 0.0281 0.0113

Saturn 17697-05-11 12:14 G 8184887.85 8184888.01 8184888.17 0.0280 0.0001

Moon 17697-05-12 18:00 G 8184889.18 8184889.25 8184889.32 0.2656 0.2171

Earth 17697-05-12 18:14 G 8184889.20 8184889.26 8184889.33 0.2649 0.2241 *

Saturn 17697-08-08 03:50 G 8184976.52 8184976.66 8184976.80 0.0280 0.0111

Saturn 17697-11-04 18:57 G 8185065.20 8185065.29 8185065.39 0.0280 0.0218

Jupiter 17698-08-26 04:48 G 8185359.57 8185359.70 8185359.83 0.0494 0.0245

Jupiter 17698-11-23 17:16 G 8185449.11 8185449.22 8185449.34 0.0492 0.0328

Earth 17699-11-10 23:02 G 8185801.41 8185801.46 8185801.50 0.2682 0.2486

Moon 17699-11-10 23:31 G 8185801.43 8185801.48 8185801.52 0.2689 0.2517 *

Venus 17700-07-01 12:00 G 8186033.90 8186034.00 8186034.09 0.3689 0.2055

Mars 17702-10-06 12:14 G 8186860.88 8186861.01 8186861.14 0.1588 0.0782

Jupiter 17705-01-26 01:26 G 8187703.42 8187703.56 8187703.70 0.0536 0.0191

Venus 17706-01-15 07:12 G 8188057.68 8188057.80 8188057.91 0.3690 0.0530

Mars 17707-06-28 19:26 G 8188587.20 8188587.31 8188587.42 0.1950 0.0866

Venus 17707-07-29 06:14 G 8188617.66 8188617.76 8188617.86 0.3681 0.2140

Jupiter 17710-06-15 07:26 G 8189669.72 8189669.81 8189669.91 0.0495 0.0383

Jupiter 17710-09-12 19:40 G 8189759.18 8189759.32 8189759.46 0.0492 0.0186

Venus 17711-08-01 02:09 G 8190081.48 8190081.59 8190081.70 0.3691 0.0958

Saturn 17711-11-24 16:48 G 8190197.12 8190197.20 8190197.28 0.0278 0.0229

Saturn 17712-02-21 07:26 G 8190285.67 8190285.81 8190285.94 0.0278 0.0125

Mars 17712-02-26 19:12 G 8190291.15 8190291.30 8190291.44 0.1589 0.0100

Saturn 17712-05-19 22:19 G 8190374.28 8190374.43 8190374.59 0.0279 0.0020

Saturn 17712-08-16 13:40 G 8190462.93 8190463.07 8190463.22 0.0279 0.0091

Saturn 17712-11-13 05:31 G 8190551.62 8190551.73 8190551.84 0.0279 0.0203

Venus 17713-02-11 04:48 G 8190641.57 8190641.70 8190641.82 0.3680 0.0280

Jupiter 17716-11-14 01:40 G 8192013.42 8192013.57 8192013.72 0.0535 0.0006

Mars 17716-11-18 00:00 G 8192017.37 8192017.50 8192017.63 0.1948 0.0295

Venus 17717-02-13 20:38 G 8192105.28 8192105.36 8192105.45 0.3691 0.2362

Moon 17717-05-09 03:36 G 8192189.53 8192189.65 8192189.76 0.2647 0.1144

Earth 17717-05-09 04:33 G 8192189.57 8192189.69 8192189.81 0.2648 0.0940 *

Venus 17718-08-28 03:36 G 8192665.53 8192665.65 8192665.76 0.3680 0.1718

Moon 17719-11-07 06:43 G 8193101.66 8193101.78 8193101.89 0.2688 0.1188

Earth 17719-11-07 07:26 G 8193101.70 8193101.81 8193101.93 0.2683 0.1011 *

Mars 17721-07-19 02:09 G 8193721.45 8193721.59 8193721.72 0.1590 0.0587

Jupiter 17722-07-01 22:33 G 8194069.29 8194069.44 8194069.59 0.0493 0.0047

Saturn 17726-04-05 04:19 G 8195442.64 8195442.68 8195442.74 0.0280 0.0263

Uranus 17726-04-07 13:26 G 8195445.03 8195445.06 8195445.10 0.0133 0.0129

Mars 17726-04-10 04:04 G 8195447.59 8195447.67 8195447.75 0.1945 0.1499

Saturn 17726-07-02 20:52 G 8195531.24 8195531.37 8195531.51 0.0280 0.0147

Uranus 17726-07-04 17:45 G 8195533.16 8195533.24 8195533.33 0.0133 0.0111

Saturn 17726-09-29 12:57 G 8195619.89 8195620.04 8195620.20 0.0280 0.0034

Uranus 17726-09-30 22:19 G 8195621.32 8195621.43 8195621.54 0.0133 0.0092

Saturn 17726-12-27 04:33 G 8195708.55 8195708.69 8195708.84 0.0280 0.0078

Uranus 17726-12-28 02:24 G 8195709.48 8195709.60 8195709.73 0.0133 0.0073

Saturn 17727-03-25 19:55 G 8195797.22 8195797.33 8195797.45 0.0279 0.0185

Uranus 17727-03-26 06:43 G 8195797.64 8195797.78 8195797.92 0.0133 0.0054

Uranus 17727-06-22 11:02 G 8195885.81 8195885.96 8195886.11 0.0133 0.0036

Uranus 17727-09-18 15:21 G 8195973.99 8195974.14 8195974.29 0.0133 0.0017

Uranus 17727-12-15 19:26 G 8196062.16 8196062.31 8196062.46 0.0133 0.0003

Uranus 17728-03-12 23:45 G 8196150.34 8196150.49 8196150.64 0.0133 0.0020

Uranus 17728-06-09 03:50 G 8196238.51 8196238.66 8196238.80 0.0133 0.0038

Jupiter 17728-09-02 02:38 G 8196323.46 8196323.61 8196323.75 0.0535 0.0181

Uranus 17728-09-05 07:55 G 8196326.69 8196326.83 8196326.97 0.0133 0.0056

Uranus 17728-12-02 12:00 G 8196414.87 8196415.00 8196415.12 0.0133 0.0074

Uranus 17729-02-28 15:50 G 8196503.06 8196503.16 8196503.28 0.0133 0.0092

Uranus 17729-05-27 19:40 G 8196591.25 8196591.32 8196591.42 0.0134 0.0110

Uranus 17729-08-23 23:45 G 8196679.46 8196679.49 8196679.55 0.0134 0.0127

Moon 17730-05-12 01:26 G 8196940.44 8196940.56 8196940.68 0.2653 0.0788

Earth 17730-05-12 02:09 G 8196940.47 8196940.59 8196940.71 0.2649 0.0860 *

Mars 17730-12-09 09:21 G 8197151.80 8197151.89 8197151.98 0.1592 0.1250

Moon 17732-11-09 05:31 G 8197852.61 8197852.73 8197852.85 0.2689 0.0896

Earth 17732-11-09 05:45 G 8197852.62 8197852.74 8197852.86 0.2683 0.0911 *

Mars 17732-11-14 05:45 G 8197857.73 8197857.74 8197857.75 0.1586 0.1578

Jupiter 17734-04-20 00:57 G 8198379.40 8198379.54 8198379.69 0.0493 0.0095

Jupiter 17734-07-18 13:40 G 8198469.05 8198469.07 8198469.10 0.0491 0.0481

Jupiter 17740-06-21 03:21 G 8200633.53 8200633.64 8200633.75 0.0534 0.0360

Jupiter 17740-09-18 23:31 G 8200723.38 8200723.48 8200723.58 0.0537 0.0386

Saturn 17741-04-12 16:33 G 8200929.16 8200929.19 8200929.23 0.0278 0.0269

Saturn 17741-07-10 07:12 G 8201017.68 8201017.80 8201017.92 0.0279 0.0167

Saturn 17741-10-06 22:04 G 8201106.27 8201106.42 8201106.56 0.0279 0.0062

Saturn 17742-01-03 13:12 G 8201194.90 8201195.05 8201195.20 0.0279 0.0047

Saturn 17742-04-02 04:33 G 8201283.57 8201283.69 8201283.82 0.0279 0.0158

Mars 17742-04-06 12:28 G 8201287.90 8201288.02 8201288.14 0.1587 0.0881

Saturn 17742-06-29 20:24 G 8201372.33 8201372.35 8201372.40 0.0280 0.0272

Moon 17743-05-14 23:16 G 8201691.45 8201691.47 8201691.50 0.2656 0.2594

Earth 17743-05-14 23:31 G 8201691.46 8201691.48 8201691.51 0.2649 0.2602 *

Jupiter 17746-02-06 03:36 G 8202689.52 8202689.65 8202689.79 0.0494 0.0235

Jupiter 17746-05-06 16:04 G 8202779.07 8202779.17 8202779.28 0.0491 0.0337

Mars 17746-12-27 19:40 G 8203014.21 8203014.32 8203014.42 0.1950 0.0986

Moon 17750-05-07 11:16 G 8204240.95 8204240.97 8204240.99 0.2644 0.2584

Earth 17750-05-07 12:00 G 8204240.95 8204241.00 8204241.05 0.2648 0.2410 *

Venus 17751-07-23 14:52 G 8204683.06 8204683.12 8204683.18 0.3689 0.3137

Mars 17751-08-27 19:26 G 8204718.16 8204718.31 8204718.46 0.1589 0.0193

Jupiter 17752-07-08 00:14 G 8205033.37 8205033.51 8205033.65 0.0536 0.0202

Earth 17752-11-04 14:52 G 8205153.08 8205153.12 8205153.17 0.2684 0.2485

Saturn 17755-11-19 21:36 G 8206263.28 8206263.40 8206263.52 0.0281 0.0183

Saturn 17756-02-16 13:55 G 8206351.93 8206352.08 8206352.23 0.0281 0.0068

Saturn 17756-05-15 05:45 G 8206440.59 8206440.74 8206440.89 0.0280 0.0044

Mars 17756-05-19 00:14 G 8206444.38 8206444.51 8206444.64 0.1948 0.0174

Saturn 17756-08-11 21:07 G 8206529.26 8206529.38 8206529.51 0.0280 0.0153

Saturn 17756-11-08 12:14 G 8206617.96 8206618.01 8206618.07 0.0280 0.0259

Venus 17757-02-05 10:19 G 8206706.83 8206706.93 8206707.04 0.3690 0.1572

Jupiter 17757-11-25 06:00 G 8206999.65 8206999.75 8206999.84 0.0495 0.0380

Jupiter 17758-02-22 18:00 G 8207089.11 8207089.25 8207089.39 0.0492 0.0188

Venus 17758-08-19 07:26 G 8207266.76 8207266.81 8207266.86 0.3681 0.3378

Mars 17761-01-17 02:24 G 8208148.47 8208148.60 8208148.74 0.1590 0.0485

Pluto 17762-06-12 15:50 G 8208660.11 8208660.16 8208660.21 0.0070 0.0065

Venus 17762-08-22 05:31 G 8208730.61 8208730.73 8208730.85 0.3690 0.0053

Pluto 17762-09-08 16:19 G 8208748.11 8208748.18 8208748.27 0.0071 0.0056

Pluto 17762-12-05 16:48 G 8208836.12 8208836.20 8208836.31 0.0071 0.0047

Pluto 17763-03-03 17:45 G 8208924.13 8208924.24 8208924.35 0.0071 0.0037

Moon 17763-05-10 08:52 G 8208991.75 8208991.87 8208992.00 0.2648 0.0629

Earth 17763-05-10 10:04 G 8208991.79 8208991.92 8208992.04 0.2648 0.0562 *

Pluto 17763-05-30 18:14 G 8209012.15 8209012.26 8209012.39 0.0071 0.0028

Neptune 17763-06-10 09:07 G 8209022.85 8209022.88 8209022.94 0.0088 0.0084

Pluto 17763-08-26 18:57 G 8209100.17 8209100.29 8209100.42 0.0071 0.0019

Neptune 17763-09-06 11:16 G 8209110.90 8209110.97 8209111.05 0.0088 0.0077

Pluto 17763-11-22 19:40 G 8209188.19 8209188.32 8209188.45 0.0071 0.0009

Neptune 17763-12-03 13:12 G 8209198.97 8209199.05 8209199.16 0.0088 0.0069

Pluto 17764-02-18 20:24 G 8209276.22 8209276.35 8209276.48 0.0071 0.0001

Neptune 17764-02-29 15:21 G 8209287.04 8209287.14 8209287.25 0.0088 0.0061

Venus 17764-03-04 05:31 G 8209290.62 8209290.73 8209290.85 0.3681 0.1563

Jupiter 17764-04-26 00:28 G 8209343.37 8209343.52 8209343.67 0.0535 0.0017

Pluto 17764-05-16 21:07 G 8209364.25 8209364.38 8209364.51 0.0071 0.0010

Neptune 17764-05-27 17:16 G 8209375.11 8209375.22 8209375.35 0.0088 0.0054

Pluto 17764-08-12 21:36 G 8209452.28 8209452.40 8209452.53 0.0072 0.0020

Neptune 17764-08-23 19:26 G 8209463.18 8209463.31 8209463.44 0.0088 0.0046

Pluto 17764-11-08 22:19 G 8209540.31 8209540.43 8209540.56 0.0072 0.0030

Neptune 17764-11-19 21:21 G 8209551.26 8209551.39 8209551.53 0.0088 0.0039

Pluto 17765-02-04 22:48 G 8209628.35 8209628.45 8209628.57 0.0072 0.0040

Neptune 17765-02-15 23:31 G 8209639.33 8209639.48 8209639.62 0.0088 0.0031

Pluto 17765-05-03 23:45 G 8209716.40 8209716.49 8209716.59 0.0072 0.0049

Neptune 17765-05-15 01:26 G 8209727.41 8209727.56 8209727.71 0.0088 0.0024

Pluto 17765-07-31 00:14 G 8209804.45 8209804.51 8209804.60 0.0072 0.0059

Neptune 17765-08-11 03:36 G 8209815.49 8209815.65 8209815.80 0.0088 0.0016

Mars 17765-10-09 04:33 G 8209874.60 8209874.69 8209874.78 0.1945 0.1371

Pluto 17765-10-27 00:57 G 8209892.52 8209892.54 8209892.58 0.0072 0.0069

Neptune 17765-11-07 05:31 G 8209903.58 8209903.73 8209903.89 0.0088 0.0009

Moon 17765-11-07 12:00 G 8209903.88 8209904.00 8209904.13 0.2688 0.0672 *

Earth 17765-11-07 12:57 G 8209903.91 8209904.04 8209904.16 0.2683 0.0626 *

Neptune 17766-02-03 07:40 G 8209991.66 8209991.82 8209991.98 0.0088 0.0001

Neptune 17766-05-02 09:50 G 8210079.75 8210079.91 8210080.06 0.0088 0.0007

Neptune 17766-07-29 11:45 G 8210167.84 8210167.99 8210168.15 0.0088 0.0015

Neptune 17766-10-25 13:40 G 8210255.93 8210256.07 8210256.23 0.0088 0.0024

Neptune 17767-01-21 16:04 G 8210344.02 8210344.17 8210344.32 0.0088 0.0030

Neptune 17767-04-19 18:14 G 8210432.12 8210432.26 8210432.40 0.0088 0.0038

Neptune 17767-07-16 20:09 G 8210520.21 8210520.34 8210520.48 0.0088 0.0046

Neptune 17767-10-12 22:19 G 8210608.31 8210608.43 8210608.56 0.0088 0.0054

Uranus 17768-01-08 17:02 G 8210696.18 8210696.21 8210696.26 0.0145 0.0139

Neptune 17768-01-09 00:28 G 8210696.41 8210696.52 8210696.64 0.0088 0.0062

Venus 17768-03-07 00:14 G 8210754.41 8210754.51 8210754.62 0.3691 0.1402

Uranus 17768-04-05 22:48 G 8210784.36 8210784.45 8210784.54 0.0145 0.0115

Neptune 17768-04-06 02:38 G 8210784.52 8210784.61 8210784.71 0.0088 0.0070 *

Uranus 17768-07-03 04:19 G 8210872.56 8210872.68 8210872.80 0.0145 0.0091

Neptune 17768-07-03 04:48 G 8210872.64 8210872.70 8210872.78 0.0088 0.0078 *

Neptune 17768-09-29 06:57 G 8210960.77 8210960.79 8210960.83 0.0088 0.0086

Uranus 17768-09-29 09:50 G 8210960.77 8210960.91 8210961.06 0.0145 0.0067 *

Uranus 17768-12-26 15:36 G 8211049.00 8211049.15 8211049.31 0.0145 0.0042

Uranus 17769-03-24 21:21 G 8211137.23 8211137.39 8211137.55 0.0145 0.0018

Uranus 17769-06-21 03:07 G 8211225.47 8211225.63 8211225.79 0.0145 0.0007

Uranus 17769-09-17 08:52 G 8211313.72 8211313.87 8211314.03 0.0145 0.0032

Venus 17769-09-18 04:04 G 8211314.54 8211314.67 8211314.79 0.3680 0.0346

Jupiter 17769-12-11 20:38 G 8211399.21 8211399.36 8211399.51 0.0493 0.0047

Uranus 17769-12-14 14:38 G 8211401.97 8211402.11 8211402.27 0.0145 0.0058

Uranus 17770-03-12 20:38 G 8211490.23 8211490.36 8211490.50 0.0145 0.0083

Uranus 17770-06-09 02:38 G 8211578.51 8211578.61 8211578.72 0.0145 0.0109

Mars 17770-06-09 09:36 G 8211578.80 8211578.90 8211579.00 0.1592 0.1152

Uranus	17770-09-05 08:24 G	8211666.81	8211666.85	8211666.92	0.0145	0.0135	
Saturn	17770-11-27 10:19 G	8211749.82	8211749.93	8211750.04	0.0278	0.0185	
Saturn	17771-02-24 01:12 G	8211838.40	8211838.55	8211838.69	0.0278	0.0081	
Saturn	17771-05-23 16:19 G	8211927.02	8211927.18	8211927.33	0.0279	0.0028	
Saturn	17771-08-20 07:40 G	8212015.69	8212015.82	8212015.96	0.0279	0.0138	
Saturn	17771-11-16 23:31 G	8212104.42	8212104.48	8212104.55	0.0279	0.0251	
Venus	17773-09-20 18:57 G	8212778.22	8212778.29	8212778.36	0.3691	0.2799	
Venus	17775-04-04 03:07 G	8213338.53	8213338.63	8213338.73	0.3680	0.2353	
Jupiter	17776-02-13 00:28 G	8213653.37	8213653.52	8213653.66	0.0534	0.0184	
Moon	17776-05-12 06:57 G	8213742.68	8213742.79	8213742.90	0.2654	0.1095	
Earth	17776-05-12 07:40 G	8213742.71	8213742.82	8213742.93	0.2649	0.1234	*
Moon	17778-11-10 11:16 G	8214654.86	8214654.97	8214655.08	0.2690	0.1262	
Earth	17778-11-10 11:16 G	8214654.86	8214654.97	8214655.08	0.2683	0.1304	*
Jupiter	17781-09-29 23:31 G	8215709.33	8215709.48	8215709.62	0.0494	0.0092	
Mars	17781-10-05 12:57 G	8215714.92	8215715.04	8215715.15	0.1587	0.0984	
Jupiter	17781-12-28 12:14 G	8215798.99	8215799.01	8215799.03	0.0491	0.0485	
Saturn	17785-04-07 22:48 G	8216995.35	8216995.45	8216995.55	0.0280	0.0215	
Saturn	17785-07-05 15:07 G	8217083.98	8217084.13	8217084.28	0.0280	0.0100	
Saturn	17785-10-02 06:57 G	8217172.64	8217172.79	8217172.95	0.0280	0.0013	
Saturn	17785-12-29 22:33 G	8217261.30	8217261.44	8217261.58	0.0280	0.0122	
Saturn	17786-03-28 13:40 G	8217349.99	8217350.07	8217350.16	0.0279	0.0229	
Mars	17786-06-27 19:55 G	8217441.22	8217441.33	8217441.43	0.1950	0.1107	
Jupiter	17787-12-02 00:57 G	8217963.43	8217963.54	8217963.65	0.0534	0.0368	
Jupiter	17788-02-29 21:07 G	8218053.28	8218053.38	8218053.49	0.0537	0.0378	
Mars	17791-02-25 19:40 G	8219145.18	8219145.32	8219145.46	0.1589	0.0290	
Jupiter	17793-07-19 01:55 G	8220019.45	8220019.58	8220019.72	0.0494	0.0232	
Jupiter	17793-10-16 14:24 G	8220108.99	8220109.10	8220109.21	0.0491	0.0340	
Mars	17795-11-18 00:14 G	8220871.39	8220871.51	8220871.64	0.1948	0.0083	
Moon	17796-05-07 16:33 G	8221043.11	8221043.19	8221043.27	0.2645	0.2077	
Earth	17796-05-07 17:31 G	8221043.15	8221043.23	8221043.31	0.2648	0.2021	*

Moon	17798-11-05 19:26 G	8221955.23	8221955.31	8221955.38	0.2686	0.2167
Earth	17798-11-05 20:24 G	8221955.27	8221955.35	8221955.42	0.2684	0.2101 *
Jupiter	17799-12-18 22:33 G	8222363.30	8222363.44	8222363.57	0.0536	0.0204
Saturn	17800-04-16 10:33 G	8222481.85	8222481.94	8222482.03	0.0278	0.0224
Saturn	17800-07-14 00:57 G	8222570.41	8222570.54	8222570.68	0.0279	0.0121
Mars	17800-07-19 02:38 G	8222575.47	8222575.61	8222575.76	0.1590	0.0389
Saturn	17800-10-10 16:04 G	8222659.02	8222659.17	8222659.32	0.0279	0.0014
Saturn	17801-01-07 07:26 G	8222747.66	8222747.81	8222747.95	0.0279	0.0096
Saturn	17801-04-05 23:02 G	8222836.36	8222836.46	8222836.57	0.0279	0.0207
Mars	17805-04-10 04:48 G	8224301.60	8224301.70	8224301.80	0.1946	0.1244
Jupiter	17805-05-08 04:48 G	8224329.60	8224329.70	8224329.80	0.0495	0.0370
Jupiter	17805-08-05 16:48 G	8224419.06	8224419.20	8224419.34	0.0492	0.0197
Venus	17808-02-28 13:26 G	8225355.98	8225356.06	8225356.14	0.3689	0.2653
Moon	17809-05-11 14:24 G	8225793.97	8225794.10	8225794.23	0.2649	0.0383
Earth	17809-05-11 15:21 G	8225794.01	8225794.14	8225794.27	0.2648	0.0181 *
Mars	17809-12-09 09:50 G	8226005.81	8226005.91	8226006.02	0.1592	0.1054
Uranus	17810-04-28 19:55 G	8226146.29	8226146.33	8226146.39	0.0133	0.0127
Uranus	17810-07-26 00:28 G	8226234.43	8226234.52	8226234.61	0.0133	0.0107
Uranus	17810-10-22 04:48 G	8226322.59	8226322.70	8226322.82	0.0133	0.0088
Uranus	17811-01-18 09:07 G	8226410.75	8226410.88	8226411.02	0.0133	0.0070
Uranus	17811-04-16 13:26 G	8226498.92	8226499.06	8226499.20	0.0133	0.0051
Uranus	17811-07-13 17:45 G	8226587.09	8226587.24	8226587.39	0.0133	0.0032
Jupiter	17811-10-07 23:02 G	8226673.31	8226673.46	8226673.62	0.0535	0.0026
Uranus	17811-10-09 22:04 G	8226675.27	8226675.42	8226675.57	0.0133	0.0014
Moon	17811-11-09 17:45 G	8226706.11	8226706.24	8226706.36	0.2688	0.0405
Earth	17811-11-09 18:28 G	8226706.14	8226706.27	8226706.39	0.2683	0.0246 *
Uranus	17812-01-06 02:09 G	8226763.44	8226763.59	8226763.74	0.0133	0.0005
Uranus	17812-04-03 06:14 G	8226851.62	8226851.76	8226851.92	0.0133	0.0023
Uranus	17812-06-30 10:19 G	8226939.79	8226939.93	8226940.08	0.0133	0.0042
Uranus	17812-09-26 14:24 G	8227027.97	8227028.10	8227028.24	0.0133	0.0060

Uranus	17812-12-23 18:43 G	8227116.16	8227116.28	8227116.40	0.0133	0.0077
Uranus	17813-03-21 22:48 G	8227204.35	8227204.45	8227204.55	0.0134	0.0095
Uranus	17813-06-18 02:38 G	8227292.54	8227292.61	8227292.70	0.0134	0.0113
Venus	17813-09-13 08:52 G	8227379.76	8227379.87	8227379.98	0.3690	0.1097
Uranus	17813-09-14 06:43 G	8227380.75	8227380.78	8227380.81	0.0134	0.0130
Saturn	17814-08-26 23:02 G	8227727.40	8227727.46	8227727.53	0.0281	0.0253
Saturn	17814-11-23 15:36 G	8227816.01	8227816.15	8227816.29	0.0281	0.0136
Saturn	17815-02-20 07:40 G	8227904.67	8227904.82	8227904.98	0.0281	0.0023
Venus	17815-03-27 06:28 G	8227939.70	8227939.77	8227939.85	0.3681	0.2830
Saturn	17815-05-19 23:16 G	8227993.33	8227993.47	8227993.62	0.0280	0.0089
Saturn	17815-08-16 14:38 G	8228082.01	8228082.11	8228082.22	0.0280	0.0197
Jupiter	17817-05-24 18:43 G	8228729.13	8228729.28	8228729.43	0.0493	0.0047
Venus	17819-03-30 03:50 G	8229403.54	8229403.66	8229403.77	0.3690	0.0404
Venus	17820-10-10 04:48 G	8229963.58	8229963.70	8229963.82	0.3680	0.0989
Mars	17821-04-06 13:12 G	8230141.95	8230142.05	8230142.16	0.1587	0.1089
Moon	17822-05-14 12:14 G	8230544.91	8230545.01	8230545.11	0.2654	0.1585
Earth	17822-05-14 12:57 G	8230544.94	8230545.04	8230545.14	0.2649	0.1599 *
Jupiter	17823-07-26 23:16 G	8230983.33	8230983.47	8230983.62	0.0534	0.0171
Venus	17824-10-12 22:33 G	8231427.34	8231427.44	8231427.54	0.3691	0.1847
Moon	17824-11-11 16:48 G	8231457.10	8231457.20	8231457.29	0.2690	0.1784
Earth	17824-11-11 16:48 G	8231457.10	8231457.20	8231457.30	0.2683	0.1701 *
Mars	17825-12-27 19:55 G	8231868.23	8231868.33	8231868.43	0.1950	0.1220
Venus	17826-04-26 03:21 G	8231987.52	8231987.64	8231987.77	0.3680	0.0951
Jupiter	17829-03-12 21:21 G	8233039.24	8233039.39	8233039.54	0.0494	0.0095
Jupiter	17829-06-10 10:04 G	8233128.90	8233128.92	8233128.95	0.0491	0.0482
Saturn	17829-09-03 13:55 G	8233214.01	8233214.08	8233214.15	0.0278	0.0241
Saturn	17829-12-01 04:19 G	8233302.55	8233302.68	8233302.82	0.0278	0.0138
Saturn	17830-02-27 19:12 G	8233391.15	8233391.30	8233391.46	0.0278	0.0033
Venus	17830-04-28 17:16 G	8233451.16	8233451.22	8233451.27	0.3691	0.3235
Saturn	17830-05-27 10:33 G	8233479.79	8233479.94	8233480.09	0.0279	0.0076

Saturn 17830-08-24 02:09 G 8233568.48 8233568.59 8233568.71 0.0279 0.0188

Mars 17830-08-27 20:09 G 8233572.20 8233572.34 8233572.48 0.1589 0.0398

Venus 17831-11-10 02:38 G 8234011.53 8234011.61 8234011.68 0.3679 0.2995

Jupiter 17835-05-14 22:48 G 8235293.35 8235293.45 8235293.56 0.0533 0.0372

Mars 17835-05-20 00:43 G 8235298.40 8235298.53 8235298.66 0.1948 0.0073

Jupiter 17835-08-12 18:57 G 8235383.19 8235383.29 8235383.40 0.0537 0.0374

Mars 17840-01-18 03:07 G 8237002.48 8237002.63 8237002.77 0.1590 0.0292

Jupiter 17840-12-30 00:14 G 8237349.38 8237349.51 8237349.64 0.0494 0.0230

Jupiter 17841-03-29 12:43 G 8237438.92 8237439.03 8237439.14 0.0492 0.0342

Moon 17842-05-09 22:04 G 8237845.32 8237845.42 8237845.51 0.2645 0.1816

Earth 17842-05-09 22:48 G 8237845.35 8237845.45 8237845.56 0.2648 0.1638 *

Saturn 17844-01-14 00:43 G 8238459.53 8238459.53 8238459.54 0.0281 0.0281

Saturn 17844-04-11 17:16 G 8238548.10 8238548.22 8238548.35 0.0280 0.0164

Saturn 17844-07-09 09:36 G 8238636.74 8238636.90 8238637.05 0.0280 0.0050

Saturn 17844-10-06 01:12 G 8238725.40 8238725.55 8238725.70 0.0280 0.0062

Mars 17844-10-09 04:48 G 8238728.60 8238728.70 8238728.81 0.1945 0.1130

Moon 17844-11-07 00:43 G 8238757.44 8238757.53 8238757.61 0.2686 0.1923

Earth 17844-11-07 01:40 G 8238757.47 8238757.57 8238757.67 0.2684 0.1723 *

Saturn 17845-01-02 16:33 G 8238814.08 8238814.19 8238814.32 0.0280 0.0171

Saturn 17845-04-01 07:40 G 8238902.80 8238902.82 8238902.84 0.0279 0.0275

Neptune 17846-09-08 06:57 G 8239427.75 8239427.79 8239427.86 0.0089 0.0083

Neptune 17846-12-05 09:21 G 8239515.81 8239515.89 8239515.99 0.0089 0.0075

Neptune 17847-03-03 11:31 G 8239603.89 8239603.98 8239604.10 0.0089 0.0067

Neptune 17847-05-30 13:55 G 8239691.97 8239692.08 8239692.21 0.0089 0.0058

Jupiter 17847-05-31 19:55 G 8239693.20 8239693.33 8239693.48 0.0536 0.0195

Neptune 17847-08-26 16:19 G 8239780.05 8239780.18 8239780.32 0.0089 0.0050

Neptune 17847-11-22 18:28 G 8239868.14 8239868.27 8239868.42 0.0089 0.0042

Pluto 17848-01-31 20:09 G 8239938.28 8239938.34 8239938.44 0.0074 0.0068

Neptune 17848-02-18 20:52 G 8239956.23 8239956.37 8239956.52 0.0089 0.0033

Pluto 17848-04-28 22:48 G 8240026.32 8240026.45 8240026.60 0.0073 0.0052

Neptune 17848-05-16 23:16 G 8240044.32 8240044.47 8240044.62 0.0089 0.0025

Pluto 17848-07-26 01:12 G 8240114.39 8240114.55 8240114.73 0.0073 0.0037

Neptune 17848-08-13 01:26 G 8240132.41 8240132.56 8240132.72 0.0089 0.0016

Pluto 17848-10-22 03:36 G 8240202.48 8240202.65 8240202.85 0.0073 0.0022

Neptune 17848-11-09 03:36 G 8240220.50 8240220.65 8240220.81 0.0089 0.0009

Pluto 17849-01-18 06:14 G 8240290.57 8240290.76 8240290.96 0.0073 0.0006

Neptune 17849-02-05 06:00 G 8240308.59 8240308.75 8240308.91 0.0089 0.0002

Pluto 17849-04-16 08:38 G 8240378.67 8240378.86 8240379.06 0.0073 0.0009

Neptune 17849-05-04 08:09 G 8240396.68 8240396.84 8240397.00 0.0089 0.0008

Mars 17849-06-09 10:19 G 8240432.81 8240432.93 8240433.04 0.1592 0.0959

Pluto 17849-07-13 11:02 G 8240466.78 8240466.96 8240467.15 0.0073 0.0024

Neptune 17849-07-31 10:19 G 8240484.77 8240484.93 8240485.09 0.0089 0.0016

Pluto 17849-10-09 13:26 G 8240554.90 8240555.06 8240555.22 0.0073 0.0039

Neptune 17849-10-27 12:28 G 8240572.87 8240573.02 8240573.17 0.0089 0.0024

Pluto 17850-01-05 15:36 G 8240643.03 8240643.15 8240643.29 0.0073 0.0054

Neptune 17850-01-23 14:24 G 8240660.96 8240661.10 8240661.26 0.0089 0.0033

Pluto 17850-04-03 17:45 G 8240731.19 8240731.24 8240731.31 0.0073 0.0069

Neptune 17850-04-21 16:33 G 8240749.06 8240749.19 8240749.34 0.0089 0.0041

Neptune 17850-07-18 18:43 G 8240837.16 8240837.28 8240837.42 0.0089 0.0048

Neptune 17850-10-14 20:52 G 8240925.26 8240925.37 8240925.50 0.0089 0.0056

Neptune 17851-01-10 22:48 G 8241013.36 8241013.45 8241013.57 0.0089 0.0065

Neptune 17851-04-09 00:57 G 8241101.46 8241101.54 8241101.65 0.0089 0.0072

Neptune 17851-07-06 03:21 G 8241189.57 8241189.64 8241189.71 0.0089 0.0080

Neptune 17851-10-02 05:16 G 8241277.70 8241277.72 8241277.76 0.0089 0.0088

Uranus 17852-01-30 00:14 G 8241397.46 8241397.51 8241397.57 0.0145 0.0134

Uranus 17852-04-27 05:45 G 8241485.64 8241485.74 8241485.85 0.0145 0.0110

Uranus 17852-07-24 11:16 G 8241573.85 8241573.97 8241574.10 0.0145 0.0086

Jupiter 17852-10-18 03:07 G 8241659.53 8241659.63 8241659.72 0.0495 0.0369

Uranus 17852-10-20 17:02 G 8241662.07 8241662.21 8241662.36 0.0145 0.0062

Jupiter 17853-01-15 15:07 G 8241748.99 8241749.13 8241749.27 0.0492 0.0198

Uranus 17853-01-16 22:48 G 8241750.29 8241750.45 8241750.60 0.0145 0.0037

Uranus 17853-04-15 04:33 G 8241838.53 8241838.69 8241838.85 0.0145 0.0013

Uranus 17853-07-12 10:19 G 8241926.77 8241926.93 8241927.09 0.0145 0.0013

Uranus 17853-10-08 16:04 G 8242015.01 8242015.17 8242015.33 0.0145 0.0038

Uranus 17854-01-04 21:50 G 8242103.27 8242103.41 8242103.56 0.0145 0.0063

Uranus 17854-04-03 03:36 G 8242191.53 8242191.65 8242191.79 0.0145 0.0089

Uranus 17854-06-30 09:50 G 8242279.81 8242279.91 8242280.01 0.0145 0.0114

Uranus 17854-09-26 15:36 G 8242368.12 8242368.15 8242368.20 0.0145 0.0140

Moon 17855-05-12 19:55 G 8242596.20 8242596.33 8242596.45 0.2651 0.0165

Earth 17855-05-12 20:38 G 8242596.24 8242596.36 8242596.49 0.2648 0.0215 *

Moon 17857-11-09 23:16 G 8243508.34 8243508.47 8243508.60 0.2689 0.0171

Earth 17857-11-09 23:45 G 8243508.36 8243508.49 8243508.62 0.2683 0.0169 *

Saturn 17859-01-21 14:24 G 8243946.09 8243946.10 8243946.10 0.0278 0.0277

Jupiter 17859-03-19 21:07 G 8244003.23 8244003.38 8244003.53 0.0535 0.0017

Saturn 17859-04-20 04:48 G 8244034.58 8244034.70 8244034.81 0.0278 0.0176

Saturn 17859-07-17 19:26 G 8244123.16 8244123.31 8244123.46 0.0279 0.0071

Saturn 17859-10-14 10:33 G 8244211.79 8244211.94 8244212.09 0.0279 0.0037

Saturn 17860-01-11 01:55 G 8244300.45 8244300.58 8244300.72 0.0279 0.0147

Saturn 17860-04-08 17:45 G 8244389.19 8244389.24 8244389.30 0.0279 0.0260

Mars 17860-10-05 13:40 G 8244568.97 8244569.07 8244569.16 0.1587 0.1192

Venus 17864-10-04 12:00 G 8246028.90 8246029.00 8246029.09 0.3690 0.2165

Jupiter 17864-11-03 17:31 G 8246059.08 8246059.23 8246059.38 0.0493 0.0056

Mars 17865-06-27 20:09 G 8246295.25 8246295.34 8246295.43 0.1951 0.1350

Moon 17868-05-14 17:45 G 8247347.15 8247347.24 8247347.33 0.2654 0.1833

Earth 17868-05-14 18:14 G 8247347.18 8247347.26 8247347.35 0.2649 0.1970 *

Mars 17870-02-25 20:24 G 8247999.21 8247999.35 8247999.49 0.1589 0.0498

Venus 17870-04-20 07:12 G 8248052.69 8248052.80 8248052.92 0.3690 0.0618

Moon 17870-11-12 22:19 G 8248259.35 8248259.43 8248259.51 0.2690 0.2065

Earth 17870-11-12 22:19 G 8248259.35 8248259.43 8248259.50 0.2683 0.2111 *

Jupiter 17871-01-05 21:50 G 8248313.26 8248313.41 8248313.55 0.0534 0.0165

Venus	17871-11-01 05:45	G	8248612.64	8248612.74	8248612.84	0.3681	0.2266
Saturn	17873-08-29 17:31	G	8249280.12	8249280.23	8249280.34	0.0281	0.0202
Saturn	17873-11-26 09:50	G	8249368.77	8249368.91	8249369.06	0.0281	0.0087
Saturn	17874-02-23 01:55	G	8249457.43	8249457.58	8249457.73	0.0281	0.0026
Saturn	17874-05-22 17:16	G	8249546.09	8249546.22	8249546.36	0.0280	0.0137
Saturn	17874-08-19 08:38	G	8249634.79	8249634.86	8249634.93	0.0280	0.0243
Mars	17874-11-18 00:57	G	8249725.41	8249725.54	8249725.67	0.1948	0.0192
Venus	17875-11-04 02:09	G	8250076.48	8250076.59	8250076.70	0.3691	0.0866
Jupiter	17876-08-22 19:26	G	8250369.16	8250369.31	8250369.46	0.0494	0.0095
Jupiter	17876-11-20 08:09	G	8250458.82	8250458.84	8250458.87	0.0491	0.0482
Venus	17877-05-17 04:04	G	8250636.55	8250636.67	8250636.80	0.3680	0.0400
Mars	17879-07-19 03:21	G	8251429.50	8251429.64	8251429.79	0.1590	0.0186
Venus	17881-05-19 20:52	G	8252100.28	8252100.37	8252100.46	0.3691	0.2295
Jupiter	17882-10-24 21:50	G	8252623.30	8252623.41	8252623.52	0.0533	0.0358
Venus	17882-12-01 02:52	G	8252660.51	8252660.62	8252660.74	0.3680	0.1582
Jupiter	17883-01-22 18:00	G	8252713.15	8252713.25	8252713.35	0.0536	0.0386
Mars	17884-04-09 05:02	G	8253155.60	8253155.71	8253155.82	0.1946	0.1009
Venus	17886-12-03 15:21	G	8254124.13	8254124.14	8254124.15	0.3691	0.3666
Moon	17888-05-10 03:21	G	8254647.53	8254647.64	8254647.75	0.2646	0.1331
Earth	17888-05-10 04:19	G	8254647.57	8254647.68	8254647.80	0.2648	0.1244 *
Jupiter	17888-06-10 22:04	G	8254679.29	8254679.42	8254679.55	0.0495	0.0236
Venus	17888-06-16 02:09	G	8254684.58	8254684.59	8254684.60	0.3679	0.3654
Saturn	17888-09-06 07:55	G	8254766.73	8254766.83	8254766.94	0.0278	0.0193
Jupiter	17888-09-08 10:33	G	8254768.83	8254768.94	8254769.05	0.0492	0.0337
Saturn	17888-12-03 22:48	G	8254855.30	8254855.45	8254855.59	0.0278	0.0089
Mars	17888-12-08 10:33	G	8254859.82	8254859.94	8254860.06	0.1592	0.0860
Saturn	17889-03-02 13:40	G	8254943.92	8254944.07	8254944.23	0.0279	0.0019
Saturn	17889-05-30 05:16	G	8255032.58	8255032.72	8255032.85	0.0279	0.0128
Saturn	17889-08-26 20:52	G	8255121.30	8255121.37	8255121.45	0.0279	0.0241
Moon	17890-11-08 06:00	G	8255559.65	8255559.75	8255559.86	0.2686	0.1431

Earth 17890-11-08 06:57 G 8255559.68 8255559.79 8255559.90 0.2683 0.1349 *

Uranus 17894-05-19 02:52 G 8256847.57 8256847.62 8256847.68 0.0133 0.0123

Uranus 17894-08-15 07:12 G 8256935.71 8256935.80 8256935.90 0.0133 0.0104

Jupiter 17894-11-10 17:45 G 8257023.10 8257023.24 8257023.38 0.0536 0.0189

Uranus 17894-11-11 11:45 G 8257023.87 8257023.99 8257024.11 0.0133 0.0085

Uranus 17895-02-07 15:50 G 8257112.04 8257112.16 8257112.30 0.0133 0.0066

Uranus 17895-05-06 20:09 G 8257200.20 8257200.34 8257200.49 0.0133 0.0048

Uranus 17895-08-03 00:43 G 8257288.38 8257288.53 8257288.68 0.0133 0.0029

Uranus 17895-10-30 04:48 G 8257376.55 8257376.70 8257376.85 0.0133 0.0010

Uranus 17896-01-26 09:07 G 8257464.73 8257464.88 8257465.03 0.0133 0.0009

Uranus 17896-04-23 13:12 G 8257552.90 8257553.05 8257553.20 0.0133 0.0027

Uranus 17896-07-20 17:16 G 8257641.08 8257641.22 8257641.37 0.0133 0.0045

Uranus 17896-10-16 21:21 G 8257729.26 8257729.39 8257729.53 0.0134 0.0063

Uranus 17897-01-13 01:26 G 8257817.45 8257817.56 8257817.68 0.0134 0.0081

Uranus 17897-04-11 05:31 G 8257905.63 8257905.73 8257905.83 0.0134 0.0098

Uranus 17897-07-08 09:36 G 8257993.83 8257993.90 8257993.97 0.0134 0.0116

Uranus 17897-10-04 13:40 G 8258082.07 8258082.07 8258082.07 0.0134 0.0134

Mars 17898-04-30 17:45 G 8258290.20 8258290.24 8258290.28 0.1594 0.1522

Jupiter 17900-03-31 01:12 G 8258989.45 8258989.55 8258989.64 0.0495 0.0370

Mars 17900-04-06 13:55 G 8258996.00 8258996.08 8258996.16 0.1587 0.1295

Jupiter 17900-06-28 13:12 G 8259078.91 8259079.05 8259079.19 0.0492 0.0197

Moon 17901-05-14 01:12 G 8259398.43 8259398.55 8259398.68 0.2652 0.0392

Earth 17901-05-14 02:09 G 8259398.46 8259398.59 8259398.71 0.2649 0.0573 *

Saturn 17903-01-17 19:40 G 8260012.23 8260012.32 8260012.42 0.0281 0.0227

Saturn 17903-04-16 12:14 G 8260100.87 8260101.01 8260101.15 0.0280 0.0111

Saturn 17903-07-14 04:19 G 8260189.52 8260189.68 8260189.83 0.0280 0.0007

Saturn 17903-10-10 19:40 G 8260278.19 8260278.32 8260278.47 0.0280 0.0113

Moon 17903-11-12 04:48 G 8260310.58 8260310.70 8260310.83 0.2690 0.0456

Earth 17903-11-12 05:16 G 8260310.59 8260310.72 8260310.84 0.2683 0.0554 *

Saturn 17904-01-07 11:02 G 8260366.87 8260366.96 8260367.05 0.0280 0.0219

Mars 17904-12-27 20:24 G 8260722.27 8260722.35 8260722.43 0.1950 0.1462

Jupiter 17906-08-30 18:28 G 8261333.12 8261333.27 8261333.42 0.0535 0.0011

Mars 17909-08-27 20:38 G 8262426.23 8262426.36 8262426.50 0.1589 0.0599

Jupiter 17912-04-16 15:36 G 8263389.00 8263389.15 8263389.30 0.0493 0.0056

Moon 17914-05-16 23:16 G 8264149.41 8264149.47 8264149.52 0.2655 0.2358

Earth 17914-05-16 23:31 G 8264149.43 8264149.48 8264149.54 0.2649 0.2331 *

Mars 17914-05-20 00:57 G 8264152.41 8264152.54 8264152.67 0.1949 0.0299

Venus 17915-10-27 14:52 G 8264678.07 8264678.12 8264678.17 0.3689 0.3257

Earth 17916-11-14 03:36 G 8265061.61 8265061.65 8265061.69 0.2683 0.2508

Moon 17916-11-14 03:50 G 8265061.64 8265061.66 8265061.69 0.2689 0.2634 *

Saturn 17918-01-25 08:38 G 8265498.78 8265498.86 8265498.94 0.0278 0.0229

Saturn 17918-04-23 23:16 G 8265587.33 8265587.47 8265587.60 0.0278 0.0126

Jupiter 17918-06-18 19:26 G 8265643.17 8265643.31 8265643.46 0.0535 0.0174

Saturn 17918-07-21 14:09 G 8265675.93 8265676.09 8265676.24 0.0279 0.0020

Saturn 17918-10-18 05:16 G 8265764.58 8265764.72 8265764.87 0.0279 0.0089

Saturn 17919-01-14 20:52 G 8265853.27 8265853.37 8265853.48 0.0279 0.0201

Mars 17919-01-18 03:36 G 8265856.51 8265856.65 8265856.80 0.1590 0.0090

Venus 17921-05-12 10:33 G 8266701.83 8266701.94 8266702.04 0.3690 0.1675

Venus 17922-11-23 07:12 G 8267261.76 8267261.80 8267261.83 0.3681 0.3493

Mars 17923-10-10 05:31 G 8267582.62 8267582.73 8267582.84 0.1946 0.0871

Jupiter 17924-02-03 18:14 G 8267699.11 8267699.26 8267699.41 0.0494 0.0086

Jupiter 17924-05-03 06:57 G 8267788.78 8267788.79 8267788.80 0.0491 0.0489

Venus 17926-11-26 05:31 G 8268725.62 8268725.73 8268725.85 0.3690 0.0200

Neptune 17927-12-11 07:26 G 8269105.78 8269105.81 8269105.83 0.0088 0.0087

Neptune 17928-03-08 09:07 G 8269193.82 8269193.88 8269193.95 0.0088 0.0079

Neptune 17928-06-04 11:02 G 8269281.88 8269281.96 8269282.06 0.0088 0.0072

Venus 17928-06-08 05:02 G 8269285.60 8269285.71 8269285.82 0.3681 0.1691

Mars 17928-06-09 10:48 G 8269286.83 8269286.95 8269287.08 0.1592 0.0759

Neptune 17928-08-31 13:12 G 8269369.95 8269370.05 8269370.16 0.0088 0.0064

Neptune 17928-11-27 14:52 G 8269458.02 8269458.12 8269458.25 0.0088 0.0057

Neptune 17929-02-23 17:02 G 8269546.09 8269546.21 8269546.35 0.0088 0.0050

Neptune 17929-05-22 18:57 G 8269634.17 8269634.29 8269634.44 0.0088 0.0042

Neptune 17929-08-18 21:07 G 8269722.24 8269722.38 8269722.53 0.0088 0.0034

Neptune 17929-11-14 23:02 G 8269810.32 8269810.46 8269810.62 0.0088 0.0027

Neptune 17930-02-11 01:12 G 8269898.40 8269898.55 8269898.71 0.0088 0.0019

Jupiter 17930-04-06 20:09 G 8269953.23 8269953.34 8269953.45 0.0533 0.0355

Neptune 17930-05-10 03:21 G 8269986.48 8269986.64 8269986.79 0.0088 0.0011

Jupiter 17930-07-05 16:19 G 8270043.08 8270043.18 8270043.28 0.0536 0.0389

Neptune 17930-08-06 05:16 G 8270074.57 8270074.72 8270074.88 0.0088 0.0005

Neptune 17930-11-02 07:26 G 8270162.65 8270162.81 8270162.97 0.0088 0.0004

Neptune 17931-01-29 09:21 G 8270250.74 8270250.89 8270251.05 0.0088 0.0012

Neptune 17931-04-27 11:31 G 8270338.83 8270338.98 8270339.14 0.0088 0.0020

Neptune 17931-07-24 13:40 G 8270426.92 8270427.07 8270427.22 0.0088 0.0027

Neptune 17931-10-20 15:36 G 8270515.01 8270515.15 8270515.30 0.0088 0.0035

Neptune 17932-01-16 17:45 G 8270603.11 8270603.24 8270603.38 0.0088 0.0043

Neptune 17932-04-13 19:40 G 8270691.21 8270691.32 8270691.46 0.0088 0.0051

Saturn 17932-06-05 19:40 G 8270744.28 8270744.32 8270744.37 0.0281 0.0267

Venus 17932-06-11 00:28 G 8270749.42 8270749.52 8270749.63 0.3691 0.1327

Neptune 17932-07-10 21:50 G 8270779.31 8270779.41 8270779.54 0.0088 0.0059

Saturn 17932-09-02 12:14 G 8270832.88 8270833.01 8270833.15 0.0281 0.0150

Neptune 17932-10-07 00:14 G 8270867.41 8270867.51 8270867.62 0.0088 0.0067

Saturn 17932-11-30 04:33 G 8270921.54 8270921.69 8270921.85 0.0281 0.0035

Neptune 17933-01-03 02:24 G 8270955.52 8270955.60 8270955.68 0.0088 0.0074

Saturn 17933-02-26 20:24 G 8271010.20 8271010.35 8271010.50 0.0280 0.0076

Neptune 17933-04-01 04:33 G 8271043.64 8271043.69 8271043.74 0.0088 0.0082

Saturn 17933-05-26 11:45 G 8271098.88 8271098.99 8271099.10 0.0280 0.0185

Venus 17933-12-23 03:36 G 8271309.52 8271309.65 8271309.77 0.3680 0.0233

Moon 17934-05-12 08:52 G 8271449.75 8271449.87 8271449.99 0.2648 0.0997

Earth 17934-05-12 09:50 G 8271449.79 8271449.91 8271450.03 0.2648 0.0861 *

Jupiter 17935-11-22 20:09 G 8272009.21 8272009.34 8272009.47 0.0495 0.0237

Uranus 17936-02-20 07:26 G 8272098.74 8272098.81 8272098.89 0.0145 0.0128

Jupiter 17936-02-20 08:38 G 8272098.75 8272098.86 8272098.97 0.0492 0.0336 *

Uranus 17936-05-18 12:57 G 8272186.94 8272187.04 8272187.15 0.0145 0.0104

Uranus 17936-08-14 18:28 G 8272275.14 8272275.27 8272275.41 0.0145 0.0080

Moon 17936-11-09 11:31 G 8272361.87 8272361.98 8272362.10 0.2687 0.1107

Earth 17936-11-09 12:28 G 8272361.90 8272362.02 8272362.14 0.2683 0.0967 *

Uranus 17936-11-11 00:14 G 8272363.36 8272363.51 8272363.66 0.0145 0.0056

Uranus 17937-02-07 05:45 G 8272451.59 8272451.74 8272451.90 0.0145 0.0032

Uranus 17937-05-06 11:31 G 8272539.82 8272539.98 8272540.15 0.0145 0.0008

Uranus 17937-08-02 17:16 G 8272628.07 8272628.22 8272628.39 0.0145 0.0019

Uranus 17937-10-29 23:02 G 8272716.31 8272716.46 8272716.62 0.0145 0.0044

Mars 17937-10-30 18:14 G 8272717.20 8272717.26 8272717.32 0.1594 0.1421

Venus 17937-12-25 19:12 G 8272773.23 8272773.30 8272773.38 0.3691 0.2738

Uranus 17938-01-26 05:02 G 8272804.57 8272804.71 8272804.86 0.0145 0.0069

Uranus 17938-04-24 10:48 G 8272892.84 8272892.95 8272893.08 0.0145 0.0095

Uranus 17938-07-21 16:48 G 8272981.12 8272981.20 8272981.30 0.0145 0.0120

Venus 17939-07-09 02:24 G 8273333.50 8273333.60 8273333.71 0.3680 0.2214

Mars 17939-10-06 14:24 G 8273423.03 8273423.10 8273423.16 0.1587 0.1404

Jupiter 17942-04-23 16:48 G 8274353.06 8274353.20 8274353.34 0.0535 0.0202

Mars 17944-06-27 20:38 G 8275149.29 8275149.36 8275149.43 0.1950 0.1582

Moon 17947-05-15 06:43 G 8276200.66 8276200.78 8276200.90 0.2652 0.0891

Earth 17947-05-15 07:26 G 8276200.69 8276200.81 8276200.93 0.2649 0.0953 *

Saturn 17947-06-14 11:45 G 8276230.93 8276230.99 8276231.06 0.0278 0.0247

Jupiter 17947-09-10 23:02 G 8276319.36 8276319.46 8276319.55 0.0495 0.0377

Saturn 17947-09-11 02:24 G 8276319.47 8276319.60 8276319.73 0.0278 0.0144 *

Saturn 17947-12-08 17:16 G 8276408.06 8276408.22 8276408.37 0.0278 0.0039

Jupiter 17947-12-09 11:02 G 8276408.82 8276408.96 8276409.10 0.0493 0.0192

Saturn 17948-03-06 08:24 G 8276496.70 8276496.85 8276497.00 0.0279 0.0070

Saturn 17948-06-02 23:45 G 8276585.38 8276585.49 8276585.62 0.0279 0.0181

Mars 17949-02-25 21:07 G 8276853.25 8276853.38 8276853.51 0.1588 0.0703

Moon	17949-11-12 10:19 G	8277112.81	8277112.93	8277113.05	0.2690	0.0966
Earth	17949-11-12 10:33 G	8277112.82	8277112.94	8277113.06	0.2683	0.0940 *
Mars	17953-11-18 01:26 G	8278579.43	8278579.56	8278579.68	0.1948	0.0437
Jupiter	17954-02-09 16:19 G	8278663.03	8278663.18	8278663.33	0.0535	0.0008
Mars	17958-07-19 04:04 G	8280283.52	8280283.67	8280283.81	0.1590	0.0047
Jupiter	17959-09-27 13:40 G	8280718.92	8280719.07	8280719.22	0.0493	0.0054
Moon	17960-05-17 04:48 G	8280951.69	8280951.70	8280951.72	0.2656	0.2630
Saturn	17962-01-20 15:07 G	8281565.00	8281565.13	8281565.25	0.0281	0.0171
Saturn	17962-04-19 07:12 G	8281653.65	8281653.80	8281653.96	0.0280	0.0057
Saturn	17962-07-16 23:02 G	8281742.31	8281742.46	8281742.61	0.0280	0.0055
Saturn	17962-10-13 14:24 G	8281830.98	8281831.10	8281831.23	0.0280	0.0164
Saturn	17963-01-10 05:31 G	8281919.70	8281919.73	8281919.77	0.0280	0.0269
Mars	17963-04-10 05:31 G	8282009.61	8282009.73	8282009.85	0.1946	0.0765
Jupiter	17965-11-28 16:48 G	8282973.06	8282973.20	8282973.35	0.0534	0.0187
Moon	17967-05-10 16:19 G	8283501.13	8283501.18	8283501.24	0.2643	0.2378
Earth	17967-05-10 17:16 G	8283501.16	8283501.22	8283501.27	0.2648	0.2338 *
Mars	17967-12-09 11:02 G	8283713.83	8283713.96	8283714.09	0.1592	0.0663
Moon	17969-11-07 18:43 G	8284413.24	8284413.28	8284413.33	0.2683	0.2524
Earth	17969-11-07 19:55 G	8284413.28	8284413.33	8284413.38	0.2684	0.2431 *
Jupiter	17971-07-16 16:19 G	8285029.04	8285029.18	8285029.33	0.0494	0.0087
Jupiter	17971-10-14 05:02 G	8285118.70	8285118.71	8285118.72	0.0491	0.0488
Venus	17972-06-02 13:26 G	8285350.98	8285351.06	8285351.14	0.3690	0.2755
Saturn	17977-01-28 02:52 G	8287051.51	8287051.62	8287051.74	0.0278	0.0180
Saturn	17977-04-26 17:45 G	8287140.09	8287140.24	8287140.39	0.0279	0.0074
Mars	17977-04-30 18:28 G	8287144.19	8287144.27	8287144.35	0.1594	0.1325
Saturn	17977-07-24 08:52 G	8287228.72	8287228.87	8287229.02	0.0279	0.0033
Jupiter	17977-09-16 17:31 G	8287283.12	8287283.23	8287283.34	0.0534	0.0368
Saturn	17977-10-21 00:14 G	8287317.38	8287317.51	8287317.64	0.0279	0.0143
Jupiter	17977-12-15 13:55 G	8287372.98	8287373.08	8287373.18	0.0537	0.0380
Venus	17977-12-17 08:52 G	8287374.76	8287374.87	8287374.98	0.3690	0.1183

Saturn 17978-01-17 16:04 G 8287406.11 8287406.17 8287406.23 0.0279 0.0256

Uranus 17978-06-09 09:36 G 8287548.84 8287548.90 8287548.97 0.0133 0.0119

Uranus 17978-09-05 13:55 G 8287636.99 8287637.08 8287637.19 0.0133 0.0100

Uranus 17978-12-02 18:14 G 8287725.15 8287725.26 8287725.39 0.0133 0.0082

Uranus 17979-02-28 22:48 G 8287813.31 8287813.45 8287813.58 0.0133 0.0063

Mars 17979-04-06 14:38 G 8287850.07 8287850.11 8287850.15 0.1587 0.1505

Uranus 17979-05-28 02:52 G 8287901.48 8287901.62 8287901.77 0.0133 0.0044

Venus 17979-06-30 06:14 G 8287934.69 8287934.76 8287934.83 0.3681 0.2938

Uranus 17979-08-24 07:12 G 8287989.66 8287989.80 8287989.96 0.0133 0.0026

Uranus 17979-11-20 11:31 G 8288077.83 8288077.98 8288078.13 0.0133 0.0007

Uranus 17980-02-16 15:50 G 8288166.00 8288166.16 8288166.31 0.0133 0.0012

Moon 17980-05-12 14:09 G 8288251.97 8288252.09 8288252.22 0.2649 0.0638

Earth 17980-05-12 15:07 G 8288252.01 8288252.13 8288252.26 0.2648 0.0479 *

Uranus 17980-05-14 19:55 G 8288254.18 8288254.33 8288254.48 0.0133 0.0030

Uranus 17980-08-11 00:00 G 8288342.36 8288342.50 8288342.64 0.0133 0.0048

Uranus 17980-11-07 04:04 G 8288430.54 8288430.67 8288430.80 0.0134 0.0066

Uranus 17981-02-03 08:09 G 8288518.73 8288518.84 8288518.96 0.0134 0.0084

Uranus 17981-05-02 12:00 G 8288606.92 8288607.00 8288607.11 0.0134 0.0102

Uranus 17981-07-29 16:19 G 8288695.12 8288695.18 8288695.25 0.0134 0.0119

Moon 17982-11-10 17:02 G 8289164.09 8289164.21 8289164.34 0.2688 0.0691

Earth 17982-11-10 17:45 G 8289164.12 8289164.24 8289164.37 0.2683 0.0583 *

Jupiter 17983-05-04 18:57 G 8289339.16 8289339.29 8289339.43 0.0494 0.0227

Venus 17983-07-03 04:04 G 8289398.55 8289398.67 8289398.78 0.3690 0.0337

Jupiter 17983-08-02 07:12 G 8289428.70 8289428.80 8289428.91 0.0492 0.0345

Mars 17983-12-27 20:52 G 8289576.31 8289576.37 8289576.43 0.1951 0.1706

Venus 17985-01-13 04:19 G 8289958.56 8289958.68 8289958.80 0.3680 0.1111

Mars 17988-08-26 21:21 G 8291280.27 8291280.39 8291280.52 0.1589 0.0808

Venus 17989-01-15 22:48 G 8291422.35 8291422.45 8291422.55 0.3691 0.1782

Jupiter 17989-10-03 15:07 G 8291682.99 8291683.13 8291683.27 0.0536 0.0204

Venus 17990-07-30 02:52 G 8291982.50 8291982.62 8291982.75 0.3680 0.0819

Saturn	**17991-06-09 14:52**	**G**	**8292297.02**	**8292297.12**	**8292297.22**	**0.0281**	**0.0212**	
Saturn	**17991-09-06 07:12**	**G**	**8292385.66**	**8292385.80**	**8292385.95**	**0.0281**	**0.0096**	
Saturn	**17991-12-03 23:16**	**G**	**8292474.32**	**8292474.47**	**8292474.63**	**0.0280**	**0.0017**	
Saturn	**17992-03-01 14:52**	**G**	**8292562.99**	**8292563.12**	**8292563.26**	**0.0280**	**0.0127**	
Saturn	**17992-05-29 06:00**	**G**	**8292651.67**	**8292651.75**	**8292651.84**	**0.0280**	**0.0234**	
Moon	**17993-05-15 12:00**	**G**	**8293002.89**	**8293003.00**	**8293003.12**	**0.2653**	**0.1193**	
Earth	**17993-05-15 12:57**	**G**	**8293002.93**	**8293003.04**	**8293003.15**	**0.2649**	**0.1324**	*
Mars	**17993-05-19 01:26**	**G**	**8293006.44**	**8293006.56**	**8293006.69**	**0.1948**	**0.0559**	
Venus	**17994-08-01 17:31**	**G**	**8293446.17**	**8293446.23**	**8293446.28**	**0.3691**	**0.3178**	
Jupiter	**17995-02-20 21:07**	**G**	**8293649.29**	**8293649.38**	**8293649.48**	**0.0495**	**0.0376**	
Jupiter	**17995-05-21 09:07**	**G**	**8293738.74**	**8293738.88**	**8293739.02**	**0.0493**	**0.0191**	
Moon	**17995-11-13 15:50**	**G**	**8293915.05**	**8293915.16**	**8293915.27**	**0.2690**	**0.1271**	
Earth	**17995-11-13 16:04**	**G**	**8293915.06**	**8293915.17**	**8293915.28**	**0.2683**	**0.1332**	*
Venus	**17996-02-13 01:55**	**G**	**8294006.50**	**8294006.58**	**8294006.66**	**0.3679**	**0.2855**	
Mars	**17998-01-17 04:19**	**G**	**8294710.54**	**8294710.68**	**8294710.83**	**0.1590**	**0.0121**	

19TH MILLENNIUM CE

This is a list of transits of Mercury in the 19th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**18001-07-22 15:21**	**G**	**8295992.99**	**8295993.14**	**8295993.29**	**0.0535**	**0.0018**	
Mars	**18002-10-09 06:00**	**G**	**8296436.63**	**8296436.75**	**8296436.87**	**0.1946**	**0.0633**	
Saturn	**18006-06-17 06:00**	**G**	**8297783.64**	**8297783.75**	**8297783.85**	**0.0278**	**0.0199**	
Saturn	**18006-09-13 20:38**	**G**	**8297872.22**	**8297872.36**	**8297872.50**	**0.0278**	**0.0095**	

Saturn 18006-12-11 11:31 G 8297960.83 8297960.98 8297961.14 0.0279 0.0013

Jupiter 18007-03-09 11:31 G 8298048.83 8298048.98 8298049.13 0.0493 0.0048

Saturn 18007-03-10 02:52 G 8298049.48 8298049.62 8298049.76 0.0279 0.0121

Saturn 18007-06-06 18:43 G 8298138.20 8298138.28 8298138.36 0.0279 0.0234

Mars 18007-06-09 11:31 G 8298140.84 8298140.98 8298141.11 0.1592 0.0562

Pluto 18008-08-06 05:31 G 8298564.71 8298564.73 8298564.77 0.0070 0.0069

Pluto 18008-11-02 06:00 G 8298652.70 8298652.75 8298652.84 0.0071 0.0060

Pluto 18009-01-29 06:57 G 8298740.70 8298740.79 8298740.89 0.0071 0.0050

Pluto 18009-04-27 07:26 G 8298828.71 8298828.81 8298828.93 0.0071 0.0041

Pluto 18009-07-24 08:09 G 8298916.73 8298916.84 8298916.97 0.0071 0.0032

Pluto 18009-10-20 08:52 G 8299004.75 8299004.87 8299005.00 0.0071 0.0022

Pluto 18010-01-16 09:36 G 8299092.77 8299092.90 8299093.03 0.0071 0.0013

Pluto 18010-04-14 10:19 G 8299180.80 8299180.93 8299181.06 0.0071 0.0003

Pluto 18010-07-11 11:02 G 8299268.83 8299268.96 8299269.09 0.0071 0.0007

Pluto 18010-10-07 11:31 G 8299356.86 8299356.98 8299357.12 0.0071 0.0017

Pluto 18011-01-03 12:14 G 8299444.89 8299445.01 8299445.14 0.0072 0.0026

Neptune 18011-03-10 04:04 G 8299510.66 8299510.67 8299510.72 0.0089 0.0087

Pluto 18011-04-01 12:57 G 8299532.93 8299533.04 8299533.16 0.0072 0.0036

Neptune 18011-06-06 06:43 G 8299598.71 8299598.78 8299598.86 0.0089 0.0078

Pluto 18011-06-28 13:26 G 8299620.97 8299621.06 8299621.17 0.0072 0.0046

Neptune 18011-09-02 08:52 G 8299686.79 8299686.87 8299686.98 0.0089 0.0070

Pluto 18011-09-24 14:09 G 8299709.02 8299709.09 8299709.18 0.0072 0.0056

Neptune 18011-11-29 11:31 G 8299774.86 8299774.98 8299775.09 0.0089 0.0062

Pluto 18011-12-21 14:38 G 8299797.08 8299797.11 8299797.18 0.0072 0.0066

Neptune 18012-02-25 13:40 G 8299862.95 8299863.07 8299863.20 0.0089 0.0053

Mars 18012-02-29 10:04 G 8299866.88 8299866.92 8299866.96 0.1943 0.1840

Neptune 18012-05-23 15:50 G 8299951.03 8299951.16 8299951.31 0.0089 0.0045

Neptune 18012-08-19 18:14 G 8300039.12 8300039.26 8300039.41 0.0089 0.0037

Neptune 18012-11-15 20:38 G 8300127.21 8300127.36 8300127.51 0.0089 0.0028

Neptune 18013-02-11 22:48 G 8300215.30 8300215.45 8300215.61 0.0089 0.0020

Jupiter 18013-05-10 14:38 G 8300302.97 8300303.11 8300303.26 0.0534 0.0191

Moon 18013-05-10 21:50 G 8300303.33 8300303.41 8300303.48 0.2644 0.2114

Earth 18013-05-10 22:33 G 8300303.35 8300303.44 8300303.53 0.2648 0.1947 *

Neptune 18013-05-11 00:57 G 8300303.39 8300303.54 8300303.70 0.0089 0.0012 *

Neptune 18013-08-07 03:21 G 8300391.48 8300391.64 8300391.80 0.0089 0.0004

Neptune 18013-11-03 05:31 G 8300479.57 8300479.73 8300479.89 0.0089 0.0004

Neptune 18014-01-30 07:40 G 8300567.67 8300567.82 8300567.98 0.0089 0.0013

Neptune 18014-04-28 09:50 G 8300655.76 8300655.91 8300656.07 0.0089 0.0021

Neptune 18014-07-25 12:00 G 8300743.86 8300744.00 8300744.15 0.0089 0.0029

Neptune 18014-10-21 14:24 G 8300831.95 8300832.10 8300832.24 0.0089 0.0037

Neptune 18015-01-17 16:33 G 8300920.05 8300920.19 8300920.32 0.0089 0.0045

Neptune 18015-04-15 18:28 G 8301008.15 8301008.27 8301008.40 0.0089 0.0053

Neptune 18015-07-12 20:38 G 8301096.25 8301096.36 8301096.48 0.0089 0.0061

Neptune 18015-10-08 22:48 G 8301184.36 8301184.45 8301184.55 0.0089 0.0069

Moon 18015-11-09 00:14 G 8301215.44 8301215.51 8301215.58 0.2684 0.2251

Earth 18015-11-09 01:12 G 8301215.47 8301215.55 8301215.63 0.2684 0.2058 *

Neptune 18016-01-05 00:43 G 8301272.46 8301272.53 8301272.62 0.0089 0.0077

Neptune 18016-04-02 02:52 G 8301360.58 8301360.62 8301360.68 0.0089 0.0084

Mars 18016-10-29 18:43 G 8301571.19 8301571.28 8301571.37 0.1594 0.1231

Jupiter 18018-12-26 14:24 G 8302358.95 8302359.10 8302359.25 0.0494 0.0089

Jupiter 18019-03-26 03:07 G 8302448.61 8302448.63 8302448.65 0.0491 0.0487

Uranus 18020-03-11 14:38 G 8302800.03 8302800.11 8302800.20 0.0145 0.0122

Uranus 18020-06-07 19:55 G 8302888.23 8302888.33 8302888.46 0.0145 0.0099

Uranus 18020-09-04 01:55 G 8302976.44 8302976.58 8302976.71 0.0145 0.0074

Saturn 18020-10-26 17:31 G 8303029.15 8303029.23 8303029.33 0.0281 0.0232

Uranus 18020-12-01 07:26 G 8303064.66 8303064.81 8303064.96 0.0145 0.0050

Saturn 18021-01-23 10:19 G 8303117.78 8303117.93 8303118.07 0.0281 0.0116

Uranus 18021-02-27 12:57 G 8303152.89 8303153.04 8303153.20 0.0145 0.0026

Saturn 18021-04-22 02:09 G 8303206.44 8303206.59 8303206.75 0.0280 0.0007

Uranus 18021-05-26 18:43 G 8303241.12 8303241.28 8303241.45 0.0145 0.0004

Saturn 18021-07-19 18:00 G 8303295.11 8303295.25 8303295.39 0.0280 0.0108

Uranus 18021-08-23 00:28 G 8303329.37 8303329.52 8303329.68 0.0145 0.0025

Saturn 18021-10-16 09:07 G 8303383.79 8303383.88 8303383.98 0.0280 0.0215

Uranus 18021-11-19 06:14 G 8303417.62 8303417.76 8303417.92 0.0145 0.0050

Uranus 18022-02-15 12:14 G 8303505.87 8303506.01 8303506.15 0.0145 0.0075

Uranus 18022-05-14 18:14 G 8303594.14 8303594.26 8303594.38 0.0145 0.0100

Uranus 18022-08-11 00:00 G 8303682.43 8303682.50 8303682.59 0.0145 0.0126

Mars 18023-06-27 21:07 G 8304003.34 8304003.38 8304003.42 0.1950 0.1825

Jupiter 18025-02-26 14:52 G 8304613.02 8304613.12 8304613.23 0.0533 0.0380

Jupiter 18025-05-27 11:16 G 8304702.87 8304702.97 8304703.08 0.0536 0.0367

Moon 18026-05-13 19:26 G 8305054.18 8305054.31 8305054.44 0.2650 0.0200

Earth 18026-05-13 20:38 G 8305054.23 8305054.36 8305054.49 0.2648 0.0121 *

Mars 18028-02-25 21:36 G 8305707.28 8305707.40 8305707.52 0.1588 0.0909

Moon 18028-11-10 22:33 G 8305966.31 8305966.44 8305966.57 0.2689 0.0243

Earth 18028-11-10 23:16 G 8305966.34 8305966.47 8305966.59 0.2683 0.0205 *

Venus 18029-01-07 12:00 G 8306023.91 8306024.00 8306024.09 0.3690 0.2256

Jupiter 18030-10-14 17:16 G 8306669.09 8306669.22 8306669.35 0.0494 0.0228

Jupiter 18031-01-12 05:31 G 8306758.62 8306758.73 8306758.83 0.0492 0.0344

Mars 18032-11-17 01:40 G 8307433.45 8307433.57 8307433.69 0.1949 0.0668

Venus 18034-07-24 07:26 G 8308047.69 8308047.81 8308047.92 0.3690 0.0709

Saturn 18035-11-04 06:57 G 8308515.71 8308515.79 8308515.87 0.0278 0.0233

Saturn 18036-01-31 21:21 G 8308604.26 8308604.39 8308604.52 0.0278 0.0130

Venus 18036-02-04 05:31 G 8308607.63 8308607.73 8308607.82 0.3681 0.2379

Saturn 18036-04-29 12:14 G 8308692.86 8308693.01 8308693.16 0.0279 0.0024

Saturn 18036-07-27 03:21 G 8308781.50 8308781.64 8308781.79 0.0279 0.0085

Saturn 18036-10-23 18:57 G 8308870.18 8308870.29 8308870.40 0.0279 0.0196

Jupiter 18037-03-15 12:28 G 8309012.88 8309013.02 8309013.16 0.0536 0.0192

Mars 18037-07-18 04:33 G 8309137.55 8309137.69 8309137.84 0.1590 0.0224

Moon 18039-05-16 17:45 G 8309805.14 8309805.24 8309805.34 0.2654 0.1626

Earth 18039-05-16 18:14 G 8309805.16 8309805.26 8309805.36 0.2649 0.1693 *

Venus 18040-02-07 02:24 G 8310071.49 8310071.60 8310071.71 0.3691 0.0787

Venus 18041-08-20 03:36 G 8310631.52 8310631.65 8310631.78 0.3680 0.0531

Moon 18041-11-13 21:21 G 8310717.30 8310717.39 8310717.49 0.2689 0.1756

Earth 18041-11-13 21:21 G 8310717.30 8310717.39 8310717.49 0.2683 0.1732 *

Mars 18042-04-09 06:14 G 8310863.63 8310863.76 8310863.88 0.1946 0.0506

Jupiter 18042-08-02 19:55 G 8310979.24 8310979.33 8310979.43 0.0495 0.0366

Jupiter 18042-10-31 07:55 G 8311068.69 8311068.83 8311068.97 0.0492 0.0201

Venus 18045-08-22 21:07 G 8312095.29 8312095.38 8312095.47 0.3691 0.2230

Mars 18046-12-08 11:45 G 8312567.85 8312567.99 8312568.13 0.1592 0.0460

Venus 18047-03-06 02:24 G 8312655.48 8312655.60 8312655.72 0.3680 0.1440

Jupiter 18049-01-01 13:26 G 8313322.91 8313323.06 8313323.22 0.0535 0.0021

Saturn 18050-03-15 17:16 G 8313761.19 8313761.22 8313761.25 0.0281 0.0274

Saturn 18050-06-12 10:04 G 8313849.79 8313849.92 8313850.05 0.0281 0.0157

Saturn 18050-09-09 02:09 G 8313938.44 8313938.59 8313938.75 0.0280 0.0042

Saturn 18050-12-06 18:00 G 8314027.10 8314027.25 8314027.40 0.0280 0.0069

Saturn 18051-03-05 09:21 G 8314115.78 8314115.89 8314116.01 0.0280 0.0178

Venus 18051-03-08 15:36 G 8314119.13 8314119.15 8314119.17 0.3692 0.3603

Mars 18051-08-30 10:19 G 8314293.87 8314293.93 8314293.99 0.1943 0.1713

Venus 18052-09-19 01:26 G 8314679.52 8314679.56 8314679.60 0.3679 0.3493

Jupiter 18054-08-19 09:50 G 8315378.76 8315378.91 8315379.06 0.0493 0.0050

Mars 18056-04-29 19:12 G 8315998.20 8315998.30 8315998.40 0.1593 0.1129

Moon 18059-05-12 03:07 G 8317105.53 8317105.63 8317105.73 0.2646 0.1601

Earth 18059-05-12 04:04 G 8317105.57 8317105.67 8317105.77 0.2648 0.1553 *

Jupiter 18060-10-20 13:55 G 8317632.93 8317633.08 8317633.22 0.0534 0.0174

Moon 18061-11-09 05:45 G 8318017.64 8318017.74 8318017.83 0.2685 0.1740

Earth 18061-11-09 06:43 G 8318017.68 8318017.78 8318017.87 0.2684 0.1686 *

Uranus 18062-06-29 16:19 G 8318250.11 8318250.18 8318250.27 0.0133 0.0115

Uranus 18062-09-25 20:52 G 8318338.27 8318338.37 8318338.48 0.0133 0.0096

Uranus 18062-12-23 01:12 G 8318426.43 8318426.55 8318426.68 0.0133 0.0077

Mars 18062-12-26 21:07 G 8318430.38 8318430.38 8318430.39 0.1951 0.1943

Uranus 18063-03-21 05:31 G 8318514.60 8318514.73 8318514.87 0.0133 0.0059

Uranus 18063-06-17 09:50 G 8318602.77 8318602.91 8318603.06 0.0133 0.0040

Uranus 18063-09-13 14:09 G 8318690.94 8318691.09 8318691.24 0.0133 0.0021

Uranus 18063-12-10 18:28 G 8318779.12 8318779.27 8318779.42 0.0133 0.0003

Uranus 18064-03-07 22:33 G 8318867.29 8318867.44 8318867.59 0.0133 0.0016

Uranus 18064-06-04 02:52 G 8318955.47 8318955.62 8318955.76 0.0133 0.0034

Uranus 18064-08-31 06:57 G 8319043.65 8319043.79 8319043.93 0.0133 0.0052

Uranus 18064-11-27 11:02 G 8319131.83 8319131.96 8319132.09 0.0134 0.0070

Uranus 18065-02-23 14:52 G 8319220.02 8319220.12 8319220.24 0.0134 0.0088

Saturn 18065-03-23 09:07 G 8319247.83 8319247.88 8319247.94 0.0278 0.0256

Uranus 18065-05-22 18:57 G 8319308.21 8319308.29 8319308.39 0.0134 0.0105

Saturn 18065-06-19 23:45 G 8319336.37 8319336.49 8319336.62 0.0278 0.0153

Uranus 18065-08-18 23:02 G 8319396.41 8319396.46 8319396.52 0.0134 0.0123

Saturn 18065-09-16 14:38 G 8319424.96 8319425.11 8319425.26 0.0279 0.0048

Saturn 18065-12-14 05:45 G 8319513.59 8319513.74 8319513.89 0.0279 0.0060

Saturn 18066-03-12 21:07 G 8319602.26 8319602.38 8319602.51 0.0279 0.0172

Jupiter 18066-06-07 12:14 G 8319688.87 8319689.01 8319689.16 0.0494 0.0094

Jupiter 18066-09-05 00:57 G 8319778.52 8319778.54 8319778.57 0.0491 0.0483

Mars 18067-08-26 22:04 G 8320134.31 8320134.42 8320134.53 0.1588 0.1016

Moon 18072-05-14 00:57 G 8321856.41 8321856.54 8321856.67 0.2650 0.0097

Earth 18072-05-14 01:55 G 8321856.45 8321856.58 8321856.71 0.2648 0.0287 *

Mars 18072-05-18 01:55 G 8321860.47 8321860.58 8321860.70 0.1949 0.0798

Jupiter 18072-08-08 12:57 G 8321942.94 8321943.04 8321943.15 0.0533 0.0382

Jupiter 18072-11-06 09:21 G 8322032.78 8322032.89 8322033.00 0.0536 0.0365

Moon 18074-11-12 04:04 G 8322768.54 8322768.67 8322768.79 0.2689 0.0084

Earth 18074-11-12 04:33 G 8322768.56 8322768.69 8322768.82 0.2683 0.0191 *

Mars 18077-01-16 05:02 G 8323564.56 8323564.71 8323564.85 0.1590 0.0322

Jupiter 18078-03-26 15:21 G 8323999.01 8323999.14 8323999.27 0.0495 0.0229

Jupiter 18078-06-24 03:36 G 8324088.54 8324088.65 8324088.76 0.0492 0.0343

Saturn 18079-10-30 12:57 G 8324581.92 8324582.04 8324582.16 0.0281 0.0176

Saturn 18080-01-27 05:16 G 8324670.57 8324670.72 8324670.87 0.0280 0.0061

Venus 18080-01-29 14:52 G 8324673.08 8324673.12 8324673.17 0.3690 0.3369

Saturn 18080-04-24 21:07 G 8324759.23 8324759.38 8324759.53 0.0280 0.0051

Saturn 18080-07-22 12:28 G 8324847.90 8324848.02 8324848.15 0.0280 0.0160

Saturn 18080-10-19 03:36 G 8324936.61 8324936.65 8324936.70 0.0280 0.0265

Mars 18081-10-08 06:14 G 8325290.64 8325290.76 8325290.89 0.1946 0.0396

Jupiter 18084-08-25 10:04 G 8326342.78 8326342.92 8326343.06 0.0536 0.0181

Moon 18085-05-16 23:16 G 8326607.39 8326607.47 8326607.54 0.2655 0.2039

Earth 18085-05-16 23:31 G 8326607.40 8326607.48 8326607.56 0.2649 0.2058 *

Venus 18085-08-14 10:33 G 8326696.84 8326696.94 8326697.04 0.3690 0.1763

Mars 18086-06-08 12:00 G 8326994.86 8326995.00 8326995.14 0.1592 0.0363

Venus 18087-02-25 06:43 G 8327256.76 8327256.78 8327256.80 0.3681 0.3606

Earth 18087-11-15 02:52 G 8327519.54 8327519.62 8327519.70 0.2683 0.2123

Moon 18087-11-15 03:07 G 8327519.56 8327519.63 8327519.70 0.2689 0.2190 *

Jupiter 18090-01-12 18:14 G 8328309.16 8328309.26 8328309.36 0.0495 0.0365

Jupiter 18090-04-12 06:00 G 8328398.62 8328398.75 8328398.89 0.0493 0.0202

Venus 18091-02-28 05:45 G 8328720.62 8328720.74 8328720.85 0.3691 0.0247

Mars 18091-02-28 10:33 G 8328720.87 8328720.94 8328721.01 0.1943 0.1593

Neptune 18092-09-06 06:57 G 8329276.74 8329276.79 8329276.84 0.0088 0.0082

Venus 18092-09-10 04:33 G 8329280.58 8329280.69 8329280.80 0.3681 0.1821

Neptune 18092-12-03 08:38 G 8329364.80 8329364.86 8329364.95 0.0088 0.0075

Neptune 18093-03-01 10:33 G 8329452.86 8329452.94 8329453.05 0.0088 0.0068

Neptune 18093-05-28 12:43 G 8329540.93 8329541.03 8329541.15 0.0088 0.0060

Neptune 18093-08-24 14:38 G 8329629.00 8329629.11 8329629.24 0.0088 0.0053

Neptune 18093-11-20 16:48 G 8329717.07 8329717.20 8329717.34 0.0088 0.0045

Neptune 18094-02-16 18:43 G 8329805.15 8329805.28 8329805.43 0.0088 0.0038

Pluto 18094-03-26 07:26 G 8329842.80 8329842.81 8329842.85 0.0074 0.0073

Neptune 18094-05-15 20:38 G 8329893.22 8329893.36 8329893.52 0.0088 0.0031

Pluto 18094-06-22 09:50 G 8329930.81 8329930.91 8329931.05 0.0074 0.0058

Neptune 18094-08-11 22:48 G 8329981.30 8329981.45 8329981.61 0.0088 0.0023

Pluto 18094-09-18 12:28 G 8330018.87 8330019.02 8330019.19 0.0073 0.0042

Saturn 18094-11-07 00:43 G 8330068.42 8330068.53 8330068.64 0.0278 0.0186

Neptune 18094-11-08 00:57 G 8330069.39 8330069.54 8330069.69 0.0088 0.0015

Pluto 18094-12-15 14:52 G 8330106.95 8330107.12 8330107.31 0.0073 0.0027

Saturn 18095-02-03 15:21 G 8330157.00 8330157.14 8330157.29 0.0278 0.0082

Neptune 18095-02-04 02:52 G 8330157.47 8330157.62 8330157.78 0.0088 0.0008

Pluto 18095-03-13 17:31 G 8330195.04 8330195.23 8330195.42 0.0073 0.0011

Neptune 18095-05-03 05:02 G 8330245.55 8330245.71 8330245.87 0.0088 0.0001

Saturn 18095-05-03 06:28 G 8330245.62 8330245.77 8330245.92 0.0279 0.0025 *

Pluto 18095-06-09 19:55 G 8330283.14 8330283.33 8330283.53 0.0073 0.0004

Neptune 18095-07-30 06:57 G 8330333.64 8330333.79 8330333.95 0.0088 0.0009

Saturn 18095-07-30 21:50 G 8330334.27 8330334.41 8330334.54 0.0279 0.0135

Pluto 18095-09-05 22:19 G 8330371.24 8330371.43 8330371.62 0.0073 0.0019

Neptune 18095-10-26 09:07 G 8330421.73 8330421.88 8330422.04 0.0088 0.0016

Saturn 18095-10-27 13:26 G 8330423.00 8330423.06 8330423.14 0.0279 0.0248

Mars 18095-10-29 19:26 G 8330425.20 8330425.31 8330425.42 0.1594 0.1031

Pluto 18095-12-03 00:43 G 8330459.36 8330459.53 8330459.70 0.0073 0.0034

Neptune 18096-01-22 11:02 G 8330509.82 8330509.96 8330510.12 0.0088 0.0024

Pluto 18096-02-29 02:52 G 8330547.49 8330547.62 8330547.77 0.0073 0.0049

Neptune 18096-04-19 13:12 G 8330597.91 8330598.05 8330598.20 0.0088 0.0032

Pluto 18096-05-27 05:02 G 8330635.64 8330635.71 8330635.82 0.0073 0.0064

Jupiter 18096-06-13 11:02 G 8330652.81 8330652.96 8330653.11 0.0535 0.0010

Neptune 18096-07-16 15:21 G 8330686.00 8330686.14 8330686.28 0.0088 0.0039

Venus 18096-09-13 00:43 G 8330744.42 8330744.53 8330744.64 0.3691 0.1248

Neptune 18096-10-12 17:31 G 8330774.10 8330774.23 8330774.36 0.0088 0.0047

Neptune 18097-01-08 19:26 G 8330862.20 8330862.31 8330862.44 0.0088 0.0055

Neptune 18097-04-06 21:36 G 8330950.30 8330950.40 8330950.52 0.0088 0.0063

Neptune 18097-07-03 23:31 G 8331038.40 8331038.48 8331038.59 0.0088 0.0071

Neptune 18097-09-30 01:40 G 8331126.52 8331126.57 8331126.65 0.0088 0.0079

Neptune 18097-12-27 03:50 G 8331214.65 8331214.66 8331214.70 0.0088 0.0087

Venus 18098-03-27 02:52 G 8331304.49 8331304.62 8331304.75 0.3680 0.0098

Jupiter 18102-01-30 08:38 G 8332708.71 8332708.86 8332709.01 0.0493 0.0061

Venus 18102-03-30 19:26 G 8332768.23 8332768.31 8332768.38 0.3691 0.2667

Venus 18103-10-12 01:40 G 8333328.47 8333328.57 8333328.68 0.3679 0.2061

Uranus 18104-01-04 16:04 G 8333413.15 8333413.17 8333413.21 0.0145 0.0141

Uranus 18104-04-01 21:36 G 8333501.32 8333501.40 8333501.50 0.0145 0.0117

Uranus 18104-06-29 03:07 G 8333589.52 8333589.63 8333589.76 0.0145 0.0093

Uranus 18104-09-25 08:52 G 8333677.73 8333677.87 8333678.01 0.0145 0.0069

Uranus 18104-12-22 14:24 G 8333765.95 8333766.10 8333766.25 0.0145 0.0045

Uranus 18105-03-20 20:09 G 8333854.18 8333854.34 8333854.50 0.0145 0.0020

Moon 18105-05-13 08:24 G 8333907.74 8333907.85 8333907.96 0.2647 0.1383

Earth 18105-05-13 09:21 G 8333907.78 8333907.89 8333908.01 0.2648 0.1171 *

Uranus 18105-06-17 01:55 G 8333942.42 8333942.58 8333942.74 0.0145 0.0006

Uranus 18105-09-13 07:26 G 8334030.66 8334030.81 8334030.97 0.0145 0.0030

Uranus 18105-12-10 13:26 G 8334118.91 8334119.06 8334119.21 0.0145 0.0055

Uranus 18106-03-08 19:12 G 8334207.17 8334207.30 8334207.44 0.0145 0.0080

Uranus 18106-06-05 00:57 G 8334295.44 8334295.54 8334295.66 0.0145 0.0106

Uranus 18106-09-01 07:12 G 8334383.73 8334383.80 8334383.87 0.0145 0.0131

Mars 18107-02-25 22:19 G 8334561.33 8334561.43 8334561.54 0.1588 0.1121

Moon 18107-11-11 11:02 G 8334819.86 8334819.96 8334820.07 0.2687 0.1499

Earth 18107-11-11 12:00 G 8334819.89 8334820.00 8334820.11 0.2684 0.1301 *

Jupiter 18108-04-02 12:00 G 8334962.86 8334963.00 8334963.14 0.0534 0.0174

Saturn 18109-03-19 12:14 G 8335313.92 8335314.01 8335314.11 0.0281 0.0220

Saturn 18109-06-16 04:48 G 8335402.55 8335402.70 8335402.85 0.0280 0.0104

Saturn 18109-09-12 20:52 G 8335491.21 8335491.37 8335491.52 0.0280 0.0010

Saturn 18109-12-10 12:28 G 8335579.88 8335580.02 8335580.16 0.0280 0.0120

Saturn 18110-03-09 03:36 G 8335668.57 8335668.65 8335668.74 0.0280 0.0227

Mars 18111-11-18 02:09 G 8336287.48 8336287.59 8336287.70 0.1949 0.0922

Jupiter 18113-11-18 10:48 G 8337018.80 8337018.95 8337019.10 0.0494 0.0090

Jupiter 18114-02-15 23:16 G 8337108.45 8337108.47 8337108.49 0.0491 0.0486

Mars 18116-07-18 05:16 G 8337991.58 8337991.72 8337991.86 0.1590 0.0427

Moon 18118-05-16 06:28 G 8338658.64 8338658.77 8338658.89 0.2651 0.0606

Earth 18118-05-16 07:26 G 8338658.68 8338658.81 8338658.93 0.2649 0.0662 *

Jupiter 18120-01-20 12:14 G 8339272.90 8339273.01 8339273.12 0.0533 0.0363

Jupiter 18120-04-19 08:38 G 8339362.76 8339362.86 8339362.96 0.0536 0.0383

Moon 18120-11-13 09:36 G 8339570.77 8339570.90 8339571.02 0.2689 0.0582

Earth 18120-11-13 10:04 G 8339570.79 8339570.92 8339571.04 0.2683 0.0584 *

Mars 18121-04-09 06:28 G 8339717.65 8339717.77 8339717.90 0.1946 0.0272

Saturn 18124-03-27 02:38 G 8340800.52 8340800.61 8340800.71 0.0278 0.0213

Saturn 18124-06-23 17:16 G 8340889.08 8340889.22 8340889.36 0.0278 0.0109

Saturn 18124-09-20 08:24 G 8340977.69 8340977.85 8340978.00 0.0279 0.0009

Saturn 18124-12-17 23:31 G 8341066.34 8341066.48 8341066.63 0.0279 0.0107

Saturn 18125-03-16 15:07 G 8341155.04 8341155.13 8341155.23 0.0279 0.0219

Jupiter 18125-09-06 13:26 G 8341328.93 8341329.06 8341329.19 0.0495 0.0231

Jupiter 18125-12-05 01:40 G 8341418.46 8341418.57 8341418.68 0.0492 0.0341

Mars 18125-12-08 12:28 G 8341421.87 8341422.02 8341422.16 0.1591 0.0262

Mars 18130-08-30 10:48 G 8343147.87 8343147.95 8343148.04 0.1943 0.1461

Moon 18131-05-19 04:33 G 8343409.64 8343409.69 8343409.75 0.2656 0.2351

Earth 18131-05-19 05:02 G 8343409.66 8343409.71 8343409.75 0.2649 0.2432 *

Jupiter 18132-02-06 08:09 G 8343672.70 8343672.84 8343672.98 0.0535 0.0181

Earth 18133-11-16 08:24 G 8344321.80 8344321.85 8344321.89 0.2682 0.2522

Moon 18133-11-16 08:38 G 8344321.83 8344321.86 8344321.90 0.2689 0.2549 *

Mars 18135-04-30 19:40 G 8344852.20 8344852.32 8344852.43 0.1593 0.0934

Venus 18136-09-05 13:26 G 8345345.99 8345346.06 8345346.14 0.3690 0.2863

Jupiter 18137-06-25 16:19 G 8345639.09 8345639.18 8345639.28 0.0496 0.0366

Jupiter 18137-09-23 04:19 G 8345728.54 8345728.68 8345728.82 0.0493 0.0203

Saturn 18138-08-06 15:07 G 8346046.06 8346046.13 8346046.22 0.0281 0.0240

Saturn 18138-11-03 07:40 G 8346134.68 8346134.82 8346134.97 0.0281 0.0123

Saturn 18139-01-31 00:00 G 8346223.34 8346223.50 8346223.65 0.0280 0.0012

Saturn 18139-04-29 15:36 G 8346312.01 8346312.15 8346312.29 0.0280 0.0101

Saturn	18139-07-27 06:57 G	8346400.69	8346400.79	8346400.89	0.0280	0.0209
Venus	18142-03-22 08:52 G	8347369.76	8347369.87	8347369.98	0.3690	0.1288
Venus	18143-10-03 05:45 G	8347929.68	8347929.74	8347929.81	0.3681	0.3064
Jupiter	18143-11-25 08:38 G	8347982.71	8347982.86	8347983.01	0.0535	0.0006
Uranus	18146-04-23 18:43 G	8348863.26	8348863.28	8348863.31	0.0133	0.0131
Uranus	18146-07-20 23:16 G	8348951.39	8348951.47	8348951.55	0.0133	0.0111
Mars	18146-08-26 22:48 G	8348988.36	8348988.45	8348988.54	0.1588	0.1222
Uranus	18146-10-17 03:36 G	8349039.54	8349039.65	8349039.76	0.0133	0.0093
Uranus	18147-01-13 07:55 G	8349127.71	8349127.83	8349127.97	0.0133	0.0074
Uranus	18147-04-11 12:14 G	8349215.88	8349216.01	8349216.16	0.0133	0.0055
Uranus	18147-07-08 16:33 G	8349304.05	8349304.19	8349304.34	0.0133	0.0037
Uranus	18147-10-04 20:52 G	8349392.22	8349392.37	8349392.52	0.0133	0.0018
Venus	18147-10-06 04:04 G	8349393.56	8349393.67	8349393.79	0.3691	0.0244
Uranus	18148-01-01 01:12 G	8349480.40	8349480.55	8349480.70	0.0133	0.0001
Uranus	18148-03-29 05:16 G	8349568.57	8349568.72	8349568.87	0.0133	0.0019
Uranus	18148-06-25 09:21 G	8349656.75	8349656.89	8349657.04	0.0133	0.0037
Uranus	18148-09-21 13:26 G	8349744.93	8349745.06	8349745.21	0.0133	0.0055
Uranus	18148-12-18 17:45 G	8349833.11	8349833.24	8349833.36	0.0134	0.0073
Uranus	18149-03-16 21:50 G	8349921.30	8349921.41	8349921.52	0.0134	0.0091
Venus	18149-04-18 03:50 G	8349953.54	8349953.66	8349953.78	0.3680	0.1243
Uranus	18149-06-13 01:40 G	8350009.49	8350009.57	8350009.66	0.0134	0.0109
Jupiter	18149-07-12 06:57 G	8350038.64	8350038.79	8350038.94	0.0493	0.0063
Uranus	18149-09-09 05:45 G	8350097.70	8350097.74	8350097.79	0.0134	0.0126
Moon	18151-05-14 13:55 G	8350709.95	8350710.08	8350710.20	0.2647	0.0856
Earth	18151-05-14 14:52 G	8350710.00	8350710.12	8350710.24	0.2648	0.0784 *
Mars	18151-05-19 02:24 G	8350714.49	8350714.60	8350714.70	0.1949	0.1034
Venus	18153-04-20 23:02 G	8351417.36	8351417.46	8351417.56	0.3691	0.1701
Saturn	18153-08-14 03:50 G	8351532.60	8351532.66	8351532.73	0.0278	0.0244
Saturn	18153-11-10 18:14 G	8351621.14	8351621.26	8351621.39	0.0278	0.0142
Moon	18153-11-11 16:33 G	8351622.07	8351622.19	8351622.31	0.2688	0.0959

Earth 18153-11-11 17:16 G 8351622.10 8351622.22 8351622.34 0.2683 0.0921 *

Saturn 18154-02-07 09:07 G 8351709.73 8351709.88 8351710.03 0.0279 0.0037

Saturn 18154-05-07 00:14 G 8351798.36 8351798.51 8351798.66 0.0279 0.0072

Saturn 18154-08-03 15:36 G 8351887.04 8351887.15 8351887.27 0.0279 0.0183

Venus 18154-11-02 02:24 G 8351977.47 8351977.60 8351977.72 0.3680 0.0681

Jupiter 18155-09-13 09:21 G 8352292.75 8352292.89 8352293.04 0.0534 0.0186

Mars 18156-01-17 05:31 G 8352418.60 8352418.73 8352418.87 0.1590 0.0530

Venus 18158-11-04 17:45 G 8353441.18 8353441.24 8353441.29 0.3692 0.3113

Venus 18160-05-18 01:12 G 8354001.47 8354001.55 8354001.64 0.3679 0.2701

Mars 18160-10-08 06:57 G 8354144.66 8354144.79 8354144.92 0.1946 0.0131

Jupiter 18161-04-30 09:50 G 8354348.76 8354348.91 8354349.05 0.0494 0.0078

Moon 18164-05-16 12:00 G 8355460.88 8355461.00 8355461.12 0.2653 0.0861

Earth 18164-05-16 12:43 G 8355460.91 8355461.03 8355461.15 0.2649 0.1034 *

Mars 18165-06-08 12:43 G 8355848.89 8355849.03 8355849.18 0.1591 0.0157

Moon 18166-11-14 15:07 G 8356373.01 8356373.13 8356373.25 0.2689 0.0872

Earth 18166-11-14 15:21 G 8356373.02 8356373.14 8356373.26 0.2683 0.0970 *

Jupiter 18167-07-02 10:19 G 8356602.82 8356602.93 8356603.04 0.0533 0.0364

Jupiter 18167-09-30 06:43 G 8356692.68 8356692.78 8356692.89 0.0536 0.0384

Saturn 18168-03-22 06:57 G 8356866.67 8356866.79 8356866.92 0.0280 0.0167

Saturn 18168-06-18 23:16 G 8356955.32 8356955.47 8356955.63 0.0280 0.0053

Saturn 18168-09-15 15:07 G 8357043.98 8357044.13 8357044.29 0.0280 0.0060

Saturn 18168-12-13 06:43 G 8357132.66 8357132.78 8357132.90 0.0280 0.0168

Saturn 18169-03-11 21:50 G 8357221.38 8357221.41 8357221.44 0.0279 0.0274

Mars 18170-02-28 11:02 G 8357574.87 8357574.96 8357575.05 0.1943 0.1344

Jupiter 18173-02-16 12:00 G 8358658.87 8358659.00 8358659.13 0.0495 0.0225

Jupiter 18173-05-17 00:00 G 8358748.40 8358748.50 8358748.61 0.0492 0.0347

Mars 18174-10-29 19:55 G 8359279.21 8359279.33 8359279.45 0.1593 0.0832

Neptune 18175-12-06 03:50 G 8359681.62 8359681.66 8359681.74 0.0089 0.0083

Neptune 18176-03-03 06:14 G 8359769.68 8359769.76 8359769.86 0.0089 0.0074

Neptune 18176-05-30 08:38 G 8359857.76 8359857.86 8359857.98 0.0089 0.0066

Neptune 18176-08-26 10:48 G 8359945.84 8359945.95 8359946.09 0.0089 0.0058

Neptune 18176-11-22 13:26 G 8360033.93 8360034.06 8360034.19 0.0089 0.0049

Neptune 18177-02-18 15:36 G 8360122.01 8360122.15 8360122.30 0.0089 0.0041

Neptune 18177-05-17 17:45 G 8360210.10 8360210.24 8360210.40 0.0089 0.0033

Neptune 18177-08-13 20:09 G 8360298.19 8360298.34 8360298.50 0.0089 0.0024

Neptune 18177-11-09 22:33 G 8360386.28 8360386.44 8360386.59 0.0089 0.0016

Neptune 18178-02-06 00:43 G 8360474.37 8360474.53 8360474.69 0.0089 0.0007

Neptune 18178-05-05 02:52 G 8360562.47 8360562.62 8360562.78 0.0089 0.0002

Neptune 18178-08-01 05:02 G 8360650.56 8360650.71 8360650.87 0.0089 0.0010

Neptune 18178-10-28 07:12 G 8360738.65 8360738.80 8360738.96 0.0089 0.0018

Neptune 18179-01-24 09:21 G 8360826.75 8360826.89 8360827.05 0.0089 0.0026

Neptune 18179-04-22 11:45 G 8360914.85 8360914.99 8360915.14 0.0089 0.0033

Jupiter 18179-07-19 07:40 G 8361002.68 8361002.82 8361002.96 0.0535 0.0203

Neptune 18179-07-19 13:55 G 8361002.94 8361003.08 8361003.22 0.0089 0.0041 *

Neptune 18179-10-15 15:50 G 8361091.04 8361091.16 8361091.30 0.0089 0.0050

Neptune 18180-01-11 18:00 G 8361179.14 8361179.25 8361179.38 0.0089 0.0058

Neptune 18180-04-08 20:09 G 8361267.25 8361267.34 8361267.46 0.0089 0.0066

Neptune 18180-07-05 22:19 G 8361355.35 8361355.43 8361355.53 0.0089 0.0073

Neptune 18180-10-02 00:14 G 8361443.47 8361443.51 8361443.59 0.0089 0.0082

Neptune 18180-12-29 02:38 G 8361531.60 8361531.61 8361531.63 0.0089 0.0089

Saturn 18183-01-01 05:16 G 8362264.70 8362264.72 8362264.74 0.0278 0.0274

Saturn 18183-03-30 19:40 G 8362353.20 8362353.32 8362353.44 0.0278 0.0173

Saturn 18183-06-27 10:19 G 8362441.79 8362441.93 8362442.08 0.0279 0.0068

Saturn 18183-09-24 01:26 G 8362530.41 8362530.56 8362530.71 0.0279 0.0040

Saturn 18183-12-21 16:48 G 8362619.08 8362619.20 8362619.34 0.0279 0.0151

Saturn 18184-03-19 08:38 G 8362707.82 8362707.86 8362707.91 0.0279 0.0264

Mars 18184-03-21 03:07 G 8362709.59 8362709.63 8362709.68 0.1596 0.1503

Moon 18184-05-11 21:21 G 8362761.33 8362761.39 8362761.45 0.2644 0.2364

Earth 18184-05-11 22:04 G 8362761.36 8362761.42 8362761.49 0.2648 0.2268 *

Jupiter 18184-12-05 14:38 G 8362969.02 8362969.11 8362969.21 0.0495 0.0364

Jupiter 18185-03-05 02:38 G 8363058.47 8363058.61 8363058.75 0.0493 0.0203

Mars 18186-02-24 23:02 G 8363415.38 8363415.46 8363415.54 0.1588 0.1329

Moon 18186-11-10 00:00 G 8363673.45 8363673.50 8363673.54 0.2684 0.2485

Earth 18186-11-10 00:57 G 8363673.48 8363673.54 8363673.59 0.2684 0.2381 *

Uranus 18188-01-24 23:02 G 8364114.42 8364114.46 8364114.52 0.0145 0.0136

Uranus 18188-04-22 04:48 G 8364202.60 8364202.70 8364202.79 0.0145 0.0112

Uranus 18188-07-19 10:19 G 8364290.80 8364290.93 8364291.05 0.0145 0.0088

Uranus 18188-10-15 15:50 G 8364379.02 8364379.16 8364379.30 0.0145 0.0064

Uranus 18189-01-11 21:21 G 8364467.24 8364467.39 8364467.55 0.0145 0.0040

Uranus 18189-04-10 03:07 G 8364555.47 8364555.63 8364555.79 0.0145 0.0015

Uranus 18189-07-07 08:52 G 8364643.70 8364643.87 8364644.03 0.0145 0.0010

Uranus 18189-10-03 14:24 G 8364731.95 8364732.10 8364732.26 0.0145 0.0035

Uranus 18189-12-30 20:09 G 8364820.20 8364820.34 8364820.49 0.0145 0.0060

Uranus 18190-03-29 02:09 G 8364908.46 8364908.59 8364908.72 0.0145 0.0085

Uranus 18190-06-25 07:55 G 8364996.73 8364996.83 8364996.94 0.0145 0.0111

Uranus 18190-09-21 13:55 G 8365085.03 8365085.08 8365085.14 0.0145 0.0136

Mars 18190-11-17 02:38 G 8365141.51 8365141.61 8365141.71 0.1949 0.1167

Jupiter 18191-05-07 06:57 G 8365312.64 8365312.79 8365312.94 0.0534 0.0007

Venus 18193-04-12 12:00 G 8366018.91 8366019.00 8366019.09 0.3690 0.2366

Mars 18195-07-18 06:00 G 8366845.61 8366845.75 8366845.88 0.1590 0.0630

Jupiter 18196-12-22 05:31 G 8367368.58 8367368.73 8367368.87 0.0494 0.0067

Moon 18197-05-14 19:12 G 8367512.18 8367512.30 8367512.43 0.2648 0.0603

Earth 18197-05-14 20:24 G 8367512.22 8367512.35 8367512.47 0.2648 0.0413 *

Saturn 18197-08-09 09:50 G 8367598.79 8367598.91 8367599.02 0.0281 0.0189

Saturn 18197-11-06 02:09 G 8367687.44 8367687.59 8367687.74 0.0281 0.0074

Saturn 18198-02-02 18:00 G 8367776.10 8367776.25 8367776.41 0.0280 0.0040

Saturn 18198-05-02 09:36 G 8367864.77 8367864.90 8367865.03 0.0280 0.0149

Saturn 18198-07-30 00:43 G 8367953.48 8367953.53 8367953.60 0.0280 0.0255

Venus 18198-10-27 07:26 G 8368042.69 8368042.81 8368042.92 0.3690 0.0805

Moon 18199-11-12 21:50 G 8368424.29 8368424.41 8368424.53 0.2688 0.0721

Earth	18199-11-12 22:48 G	8368424.32	8368424.45	8368424.57	0.2683	0.0546	*
Mars	18200-04-09 06:57 G	8368571.66	8368571.79	8368571.92	0.1946	0.0038	
Venus	18200-05-10 05:02 G	8368602.62	8368602.71	8368602.80	0.3681	0.2504	
Jupiter	18203-02-24 07:12 G	8369622.66	8369622.80	8369622.95	0.0534	0.0191	
Venus	18204-05-13 02:24 G	8370066.49	8370066.60	8370066.72	0.3691	0.0724	
Mars	18204-12-08 12:57 G	8370275.90	8370276.04	8370276.19	0.1591	0.0065	
Venus	18205-11-24 03:07 G	8370626.51	8370626.63	8370626.76	0.3680	0.0655	
Jupiter	18208-10-11 08:09 G	8371678.69	8371678.84	8371678.99	0.0494	0.0073	
Mars	18209-08-30 11:16 G	8372001.87	8372001.97	8372002.08	0.1944	0.1214	
Venus	18209-11-26 21:21 G	8372090.30	8372090.39	8372090.48	0.3691	0.2156	
Moon	18210-05-18 17:31 G	8372263.12	8372263.23	8372263.33	0.2654	0.1399	
Earth	18210-05-18 18:14 G	8372263.15	8372263.26	8372263.36	0.2649	0.1410	*
Venus	18211-06-10 01:40 G	8372650.45	8372650.57	8372650.69	0.3679	0.1303	
Saturn	18212-08-17 20:52 G	8373085.27	8373085.37	8373085.48	0.0278	0.0204	
Saturn	18212-11-14 11:31 G	8373173.84	8373173.98	8373174.12	0.0278	0.0100	
Moon	18212-11-15 20:52 G	8373175.26	8373175.37	8373175.47	0.2690	0.1445	
Earth	18212-11-15 20:52 G	8373175.26	8373175.37	8373175.48	0.2683	0.1366	*
Saturn	18213-02-11 02:24 G	8373262.45	8373262.60	8373262.75	0.0279	0.0007	
Saturn	18213-05-10 17:45 G	8373351.10	8373351.24	8373351.38	0.0279	0.0116	
Saturn	18213-08-07 09:21 G	8373439.80	8373439.89	8373439.98	0.0279	0.0228	
Mars	18214-04-30 20:09 G	8373706.22	8373706.34	8373706.47	0.1593	0.0734	
Jupiter	18214-12-13 07:55 G	8373932.72	8373932.83	8373932.94	0.0533	0.0374	
Jupiter	18215-03-13 04:19 G	8374022.58	8374022.68	8374022.79	0.0536	0.0376	
Venus	18215-06-12 15:50 G	8374114.13	8374114.16	8374114.19	0.3692	0.3551	
Venus	18216-12-24 00:57 G	8374674.49	8374674.54	8374674.59	0.3679	0.3357	
Jupiter	18220-07-30 11:02 G	8375988.83	8375988.96	8375989.09	0.0495	0.0211	
Jupiter	18220-10-27 23:16 G	8376078.37	8376078.47	8376078.57	0.0492	0.0361	
Mars	18223-09-21 03:36 G	8377136.59	8377136.65	8377136.72	0.1595	0.1398	
Mars	18225-08-26 23:31 G	8377842.42	8377842.48	8377842.54	0.1588	0.1437	
Saturn	18226-12-28 08:38 G	8378330.78	8378330.86	8378330.95	0.0280	0.0235	

Jupiter 18226-12-30 05:45 G 8378332.60 8378332.74 8378332.88 0.0536 0.0204

Saturn 18227-03-27 01:12 G 8378419.41 8378419.55 8378419.70 0.0280 0.0119

Saturn 18227-06-23 17:31 G 8378508.07 8378508.23 8378508.38 0.0280 0.0006

Saturn 18227-09-20 09:07 G 8378596.74 8378596.88 8378597.03 0.0280 0.0106

Saturn 18227-12-18 00:28 G 8378685.43 8378685.52 8378685.62 0.0279 0.0213

Moon 18230-05-14 02:38 G 8379563.53 8379563.61 8379563.70 0.2645 0.1979

Earth 18230-05-14 03:36 G 8379563.56 8379563.65 8379563.74 0.2648 0.1870 *

Uranus 18230-05-15 01:40 G 8379564.53 8379564.57 8379564.62 0.0133 0.0126

Mars 18230-05-19 02:52 G 8379568.53 8379568.62 8379568.71 0.1949 0.1286

Uranus 18230-08-11 06:00 G 8379652.67 8379652.75 8379652.85 0.0133 0.0108

Uranus 18230-11-07 10:33 G 8379740.83 8379740.94 8379741.06 0.0133 0.0088

Uranus 18231-02-03 14:52 G 8379828.99 8379829.12 8379829.26 0.0133 0.0070

Uranus 18231-05-02 19:12 G 8379917.16 8379917.30 8379917.45 0.0133 0.0051

Uranus 18231-07-29 23:31 G 8380005.33 8380005.48 8380005.63 0.0133 0.0032

Uranus 18231-10-26 03:50 G 8380093.51 8380093.66 8380093.81 0.0133 0.0014

Uranus 18232-01-22 08:09 G 8380181.68 8380181.84 8380181.99 0.0133 0.0006

Uranus 18232-04-19 12:14 G 8380269.86 8380270.01 8380270.16 0.0133 0.0023

Jupiter 18232-05-18 13:26 G 8380298.96 8380299.06 8380299.16 0.0495 0.0356

Uranus 18232-07-16 16:19 G 8380358.04 8380358.18 8380358.33 0.0133 0.0041

Jupiter 18232-08-16 01:12 G 8380388.42 8380388.55 8380388.69 0.0493 0.0211

Uranus 18232-10-12 20:24 G 8380446.22 8380446.35 8380446.49 0.0133 0.0059

Moon 18232-11-11 05:16 G 8380475.64 8380475.72 8380475.79 0.2685 0.2138

Earth 18232-11-11 06:14 G 8380475.68 8380475.76 8380475.84 0.2684 0.2009 *

Uranus 18233-01-09 00:28 G 8380534.41 8380534.52 8380534.65 0.0133 0.0077

Uranus 18233-04-07 04:33 G 8380622.59 8380622.69 8380622.80 0.0134 0.0095

Uranus 18233-07-04 08:38 G 8380710.79 8380710.86 8380710.94 0.0134 0.0113

Uranus 18233-09-30 12:43 G 8380799.00 8380799.03 8380799.06 0.0134 0.0130

Mars 18235-01-17 06:14 G 8381272.63 8381272.76 8381272.89 0.1590 0.0738

Jupiter 18238-10-18 06:28 G 8382642.62 8382642.77 8382642.92 0.0535 0.0022

Mars 18239-10-09 07:26 G 8382998.68 8382998.81 8382998.94 0.1947 0.0118

Saturn	18242-01-04 21:36 G	8383817.33	8383817.40	8383817.48	0.0278	0.0238
Saturn	18242-04-03 12:14 G	8383905.88	8383906.01	8383906.14	0.0278	0.0135
Saturn	18242-07-01 03:07 G	8383994.48	8383994.63	8383994.78	0.0279	0.0029
Saturn	18242-09-27 18:14 G	8384083.11	8384083.26	8384083.41	0.0279	0.0080
Saturn	18242-12-25 09:50 G	8384171.80	8384171.91	8384172.02	0.0279	0.0191
Moon	18243-05-17 00:43 G	8384314.40	8384314.53	8384314.66	0.2649	0.0107
Earth	18243-05-17 01:40 G	8384314.44	8384314.57	8384314.70	0.2648	0.0052 *
Jupiter	18244-03-06 16:19 G	8384609.17	8384609.18	8384609.19	0.0496	0.0493
Venus	18244-05-04 14:52 G	8384668.09	8384668.12	8384668.16	0.3689	0.3481
Jupiter	18244-06-04 03:50 G	8384698.51	8384698.66	8384698.81	0.0493	0.0069
Mars	18244-06-08 13:26 G	8384702.91	8384703.06	8384703.20	0.1591	0.0067
Moon	18245-11-14 03:21 G	8385226.51	8385226.64	8385226.77	0.2688	0.0204
Earth	18245-11-14 04:04 G	8385226.54	8385226.67	8385226.80	0.2683	0.0161 *
Mars	18249-02-28 11:31 G	8386428.88	8386428.98	8386429.09	0.1943	0.1092
Venus	18249-11-18 10:33 G	8386691.84	8386691.94	8386692.04	0.3690	0.1869
Jupiter	18250-08-06 06:00 G	8386952.60	8386952.75	8386952.89	0.0533	0.0183
Mars	18253-10-29 20:24 G	8388133.22	8388133.35	8388133.49	0.1593	0.0638
Pluto	18254-12-27 19:40 G	8388557.28	8388557.32	8388557.38	0.0070	0.0065
Pluto	18255-03-25 20:38 G	8388645.28	8388645.36	8388645.44	0.0071	0.0056
Venus	18255-06-04 05:45 G	8388715.63	8388715.74	8388715.86	0.3690	0.0339
Pluto	18255-06-21 21:07 G	8388733.29	8388733.38	8388733.48	0.0071	0.0047
Pluto	18255-09-17 21:36 G	8388821.30	8388821.40	8388821.52	0.0071	0.0038
Pluto	18255-12-14 22:19 G	8388909.32	8388909.43	8388909.56	0.0071	0.0028
Pluto	18256-03-11 23:02 G	8388997.34	8388997.46	8388997.59	0.0071	0.0019
Jupiter	18256-03-23 06:43 G	8389008.63	8389008.78	8389008.93	0.0494	0.0069
Saturn	18256-05-16 11:16 G	8389062.91	8389062.97	8389063.03	0.0281	0.0258
Moon	18256-05-18 22:48 G	8389065.35	8389065.45	8389065.55	0.2654	0.1631
Earth	18256-05-18 23:31 G	8389065.38	8389065.48	8389065.57	0.2649	0.1781 *
Pluto	18256-06-07 23:45 G	8389085.36	8389085.49	8389085.62	0.0071	0.0009
Saturn	18256-08-13 03:50 G	8389151.52	8389151.66	8389151.80	0.0281	0.0141

Pluto 18256-09-04 00:28 G 8389173.39 8389173.52 8389173.65 0.0071 0.0001

Saturn 18256-11-09 20:09 G 8389240.18 8389240.34 8389240.49 0.0281 0.0027

Pluto 18256-12-01 00:57 G 8389261.41 8389261.54 8389261.68 0.0071 0.0010

Venus 18256-12-15 04:19 G 8389275.57 8389275.68 8389275.78 0.3680 0.1937

Saturn 18257-02-06 11:45 G 8389328.85 8389328.99 8389329.14 0.0280 0.0085

Pluto 18257-02-27 01:40 G 8389349.45 8389349.57 8389349.70 0.0071 0.0020

Neptune 18257-03-09 04:19 G 8389359.66 8389359.68 8389359.72 0.0088 0.0086

Saturn 18257-05-06 03:21 G 8389417.53 8389417.64 8389417.75 0.0280 0.0193

Pluto 18257-05-26 02:09 G 8389437.48 8389437.59 8389437.72 0.0072 0.0030

Neptune 18257-06-05 06:28 G 8389447.71 8389447.77 8389447.84 0.0088 0.0079

Pluto 18257-08-22 02:52 G 8389525.52 8389525.62 8389525.74 0.0072 0.0040

Neptune 18257-09-01 08:24 G 8389535.77 8389535.85 8389535.94 0.0088 0.0071

Pluto 18257-11-18 03:50 G 8389613.56 8389613.66 8389613.75 0.0072 0.0049

Neptune 18257-11-28 10:04 G 8389623.83 8389623.92 8389624.04 0.0088 0.0064

Pluto 18258-02-14 04:19 G 8389701.61 8389701.68 8389701.76 0.0072 0.0059

Neptune 18258-02-24 12:14 G 8389711.90 8389712.01 8389712.14 0.0088 0.0056

Pluto 18258-05-13 05:02 G 8389789.68 8389789.71 8389789.75 0.0072 0.0069

Neptune 18258-05-23 14:09 G 8389799.97 8389800.09 8389800.23 0.0088 0.0049

Neptune 18258-08-19 16:19 G 8389888.05 8389888.18 8389888.32 0.0088 0.0041

Neptune 18258-11-15 18:14 G 8389976.13 8389976.26 8389976.41 0.0088 0.0034

Moon 18258-11-17 02:24 G 8389977.50 8389977.60 8389977.69 0.2690 0.1706

Earth 18258-11-17 02:09 G 8389977.50 8389977.59 8389977.69 0.2683 0.1756 *

Neptune 18259-02-11 20:24 G 8390064.20 8390064.35 8390064.50 0.0088 0.0026

Neptune 18259-05-10 22:33 G 8390152.28 8390152.44 8390152.59 0.0088 0.0018

Neptune 18259-08-07 00:28 G 8390240.37 8390240.52 8390240.68 0.0088 0.0011

Neptune 18259-11-03 02:24 G 8390328.45 8390328.60 8390328.76 0.0088 0.0004

Neptune 18260-01-30 04:33 G 8390416.53 8390416.69 8390416.85 0.0088 0.0005

Neptune 18260-04-27 06:43 G 8390504.62 8390504.78 8390504.93 0.0088 0.0012

Neptune 18260-07-24 08:38 G 8390592.71 8390592.86 8390593.02 0.0088 0.0020

Neptune 18260-10-20 10:33 G 8390680.80 8390680.94 8390681.10 0.0088 0.0028

Venus 18260-12-18 00:57 G 8390739.43 8390739.54 8390739.65 0.3691 0.1177

Neptune 18261-01-16 12:43 G 8390768.89 8390769.03 8390769.18 0.0088 0.0036

Neptune 18261-04-14 14:52 G 8390856.99 8390857.12 8390857.26 0.0088 0.0043

Neptune 18261-07-11 17:02 G 8390945.08 8390945.21 8390945.34 0.0088 0.0051

Neptune 18261-10-07 18:57 G 8391033.18 8391033.29 8391033.41 0.0088 0.0059

Neptune 18262-01-03 21:07 G 8391121.28 8391121.38 8391121.49 0.0088 0.0067

Neptune 18262-04-01 23:02 G 8391209.39 8391209.46 8391209.56 0.0088 0.0075

Jupiter 18262-05-25 06:00 G 8391262.64 8391262.75 8391262.86 0.0533 0.0373

Neptune 18262-06-29 01:12 G 8391297.51 8391297.55 8391297.62 0.0088 0.0083

Venus 18262-07-01 02:24 G 8391299.48 8391299.60 8391299.73 0.3680 0.0147

Jupiter 18262-08-23 02:38 G 8391352.50 8391352.61 8391352.71 0.0536 0.0375

Mars 18263-03-22 03:50 G 8391563.58 8391563.66 8391563.74 0.1595 0.1304

Mars 18265-02-24 23:45 G 8392269.46 8392269.49 8392269.52 0.1588 0.1539

Venus 18266-07-03 19:40 G 8392763.24 8392763.32 8392763.40 0.3691 0.2608

Jupiter 18268-01-10 09:36 G 8393318.77 8393318.90 8393319.03 0.0495 0.0205

Venus 18268-01-15 01:12 G 8393323.44 8393323.55 8393323.66 0.3679 0.1927

Jupiter 18268-04-08 21:50 G 8393408.31 8393408.41 8393408.51 0.0492 0.0367

Mars 18269-11-17 02:52 G 8393995.54 8393995.62 8393995.71 0.1949 0.1406

Saturn 18271-05-24 23:16 G 8394549.44 8394549.47 8394549.51 0.0278 0.0267

Saturn 18271-08-21 13:40 G 8394637.95 8394638.07 8394638.19 0.0278 0.0166

Saturn 18271-11-18 04:19 G 8394726.53 8394726.68 8394726.83 0.0278 0.0061

Saturn 18272-02-14 19:26 G 8394815.15 8394815.31 8394815.46 0.0279 0.0047

Uranus 18272-02-15 06:14 G 8394815.69 8394815.76 8394815.82 0.0145 0.0132

Saturn 18272-05-13 10:33 G 8394903.82 8394903.94 8394904.07 0.0279 0.0157

Uranus 18272-05-13 11:31 G 8394903.88 8394903.98 8394904.09 0.0145 0.0108 *

Uranus 18272-08-09 17:02 G 8394992.09 8394992.21 8394992.34 0.0145 0.0084

Saturn 18272-08-10 02:24 G 8394992.57 8394992.60 8394992.64 0.0279 0.0269

Uranus 18272-11-05 22:33 G 8395080.30 8395080.44 8395080.59 0.0145 0.0060

Uranus 18273-02-02 04:19 G 8395168.52 8395168.68 8395168.83 0.0145 0.0035

Uranus 18273-05-01 09:50 G 8395256.75 8395256.91 8395257.07 0.0145 0.0011

Uranus 18273-07-28 15:36 G 8395344.99 8395345.15 8395345.31 0.0145 0.0014

Uranus 18273-10-24 21:21 G 8395433.24 8395433.39 8395433.55 0.0145 0.0039

Uranus 18274-01-21 03:07 G 8395521.49 8395521.63 8395521.78 0.0145 0.0064

Uranus 18274-04-19 08:52 G 8395609.75 8395609.87 8395610.00 0.0145 0.0090

Jupiter 18274-06-11 03:36 G 8395662.51 8395662.65 8395662.79 0.0536 0.0197

Uranus 18274-07-16 14:52 G 8395698.03 8395698.12 8395698.22 0.0145 0.0115

Mars 18274-07-18 06:43 G 8395699.65 8395699.78 8395699.90 0.1590 0.0840

Uranus 18274-10-12 20:38 G 8395786.34 8395786.36 8395786.41 0.0145 0.0141

Moon 18276-05-14 08:09 G 8396365.74 8396365.84 8396365.94 0.2645 0.1632

Earth 18276-05-14 09:07 G 8396365.77 8396365.88 8396365.99 0.2648 0.1482 *

Moon 18278-11-12 10:33 G 8397277.85 8397277.94 8397278.03 0.2686 0.1794

Earth 18278-11-12 11:31 G 8397277.88 8397277.98 8397278.08 0.2683 0.1637 *

Mars 18279-04-09 07:40 G 8397425.69 8397425.82 8397425.95 0.1947 0.0239

Jupiter 18279-10-29 12:28 G 8397628.92 8397629.02 8397629.13 0.0495 0.0341

Jupiter 18280-01-27 00:28 G 8397718.38 8397718.52 8397718.65 0.0493 0.0227

Mars 18283-12-08 13:40 G 8399129.93 8399130.07 8399130.22 0.1591 0.0151

Saturn 18285-12-31 02:38 G 8399883.50 8399883.61 8399883.73 0.0280 0.0188

Saturn 18286-03-29 19:12 G 8399972.15 8399972.30 8399972.45 0.0280 0.0073

Jupiter 18286-03-30 04:48 G 8399972.55 8399972.70 8399972.85 0.0535 0.0024

Saturn 18286-06-26 11:02 G 8400060.81 8400060.96 8400061.12 0.0280 0.0040

Saturn 18286-09-23 02:38 G 8400149.48 8400149.61 8400149.74 0.0280 0.0150

Saturn 18286-12-20 17:45 G 8400238.19 8400238.24 8400238.30 0.0279 0.0256

Mars 18288-08-29 12:00 G 8400855.88 8400856.00 8400856.11 0.1943 0.0965

Moon 18289-05-17 06:14 G 8401116.63 8401116.76 8401116.89 0.2651 0.0240

Earth 18289-05-17 07:12 G 8401116.67 8401116.80 8401116.93 0.2649 0.0369 *

Jupiter 18291-08-17 15:07 G 8401939.10 8401939.13 8401939.16 0.0496 0.0483

Jupiter 18291-11-15 02:38 G 8402028.46 8402028.61 8402028.76 0.0493 0.0079

Moon 18291-11-15 08:52 G 8402028.75 8402028.87 8402029.00 0.2689 0.0148 *

Earth 18291-11-15 09:21 G 8402028.77 8402028.89 8402029.02 0.2683 0.0230 *

Mars 18293-04-29 20:52 G 8402560.23 8402560.37 8402560.51 0.1593 0.0531

Jupiter 18298-01-16 05:31 G 8404282.58 8404282.73 8404282.87 0.0534 0.0160

Venus 18300-12-10 13:26 G 8405341.00 8405341.06 8405341.13 0.3690 0.2972

Saturn 18301-01-08 13:55 G 8405369.98 8405370.08 8405370.18 0.0278 0.0203

Saturn 18301-04-07 04:33 G 8405458.55 8405458.69 8405458.83 0.0278 0.0099

Saturn 18301-07-04 19:26 G 8405547.16 8405547.31 8405547.46 0.0279 0.0008

Saturn 18301-10-01 10:48 G 8405635.81 8405635.95 8405636.09 0.0279 0.0117

Saturn 18301-12-29 02:24 G 8405724.51 8405724.60 8405724.69 0.0279 0.0229

Moon 18302-05-21 04:19 G 8405867.61 8405867.68 8405867.75 0.2654 0.2144

Earth 18302-05-21 04:48 G 8405867.63 8405867.70 8405867.78 0.2649 0.2157 *

Mars 18302-09-21 04:04 G 8405990.58 8405990.67 8405990.76 0.1595 0.1207

Jupiter 18303-09-04 05:16 G 8406338.58 8406338.72 8406338.87 0.0494 0.0062

Earth 18304-11-18 07:40 G 8406779.74 8406779.82 8406779.89 0.2682 0.2148

Moon 18304-11-18 07:40 G 8406779.76 8406779.82 8406779.89 0.2690 0.2242 *

Venus 18306-06-26 09:07 G 8407364.77 8407364.88 8407364.98 0.3690 0.1381

Venus 18308-01-07 05:31 G 8407924.67 8407924.73 8407924.79 0.3681 0.3170

Mars 18309-05-19 03:21 G 8408422.56 8408422.64 8408422.71 0.1949 0.1531

Jupiter 18309-11-05 04:48 G 8408592.59 8408592.70 8408592.81 0.0533 0.0362

Jupiter 18310-02-03 01:12 G 8408682.45 8408682.55 8408682.66 0.0536 0.0385

Venus 18312-01-10 04:19 G 8409388.56 8409388.68 8409388.80 0.3691 0.0164

Venus 18313-07-23 03:21 G 8409948.53 8409948.64 8409948.76 0.3680 0.1364

Mars 18314-01-17 06:57 G 8410126.67 8410126.79 8410126.90 0.1589 0.0940

Uranus 18314-06-05 08:24 G 8410265.80 8410265.85 8410265.92 0.0133 0.0123

Uranus 18314-09-01 12:57 G 8410353.95 8410354.04 8410354.14 0.0133 0.0104

Uranus 18314-11-28 17:31 G 8410442.11 8410442.23 8410442.35 0.0133 0.0085

Uranus 18315-02-24 21:36 G 8410530.27 8410530.40 8410530.54 0.0133 0.0066

Saturn 18315-05-21 04:48 G 8410615.60 8410615.70 8410615.80 0.0281 0.0214

Uranus 18315-05-24 01:55 G 8410618.44 8410618.58 8410618.73 0.0133 0.0048

Jupiter 18315-06-23 08:09 G 8410648.71 8410648.84 8410648.98 0.0495 0.0199

Saturn 18315-08-17 21:21 G 8410704.24 8410704.39 8410704.54 0.0281 0.0098

Uranus 18315-08-20 06:28 G 8410706.62 8410706.77 8410706.92 0.0133 0.0029

Jupiter 18315-09-20 20:24 G 8410738.25 8410738.35 8410738.45 0.0493 0.0374

Saturn 18315-11-14 13:26 G 8410792.90 8410793.06 8410793.21 0.0281 0.0016

Uranus 18315-11-16 10:33 G 8410794.79 8410794.94 8410795.10 0.0133 0.0011

Saturn 18316-02-11 05:02 G 8410881.58 8410881.71 8410881.85 0.0280 0.0127

Uranus 18316-02-12 14:52 G 8410882.97 8410883.12 8410883.27 0.0133 0.0008

Saturn 18316-05-09 20:24 G 8410970.27 8410970.35 8410970.43 0.0280 0.0234

Uranus 18316-05-10 18:57 G 8410971.15 8410971.29 8410971.44 0.0133 0.0027

Uranus 18316-08-06 23:16 G 8411059.33 8411059.47 8411059.61 0.0133 0.0045

Uranus 18316-11-03 03:21 G 8411147.51 8411147.64 8411147.77 0.0133 0.0063

Uranus 18317-01-30 07:26 G 8411235.69 8411235.81 8411235.93 0.0133 0.0081

Uranus 18317-04-28 11:16 G 8411323.88 8411323.97 8411324.08 0.0133 0.0099

Uranus 18317-07-25 15:21 G 8411412.08 8411412.14 8411412.22 0.0134 0.0116

Venus 18317-07-25 23:16 G 8411412.37 8411412.47 8411412.57 0.3691 0.1636

Mars 18318-10-09 07:40 G 8411852.70 8411852.82 8411852.95 0.1947 0.0358

Venus 18319-02-06 01:55 G 8411972.45 8411972.58 8411972.70 0.3680 0.0559

Jupiter 18321-11-22 01:55 G 8412992.44 8412992.58 8412992.72 0.0535 0.0200

Moon 18322-05-16 13:40 G 8413167.95 8413168.07 8413168.18 0.2646 0.1174

Earth 18322-05-16 14:38 G 8413167.99 8413168.11 8413168.23 0.2648 0.1093 *

Venus 18323-02-08 18:00 G 8413436.18 8413436.25 8413436.31 0.3692 0.3055

Mars 18323-06-09 13:55 G 8413556.94 8413557.08 8413557.23 0.1591 0.0253

Venus 18324-08-22 00:43 G 8413996.43 8413996.53 8413996.62 0.3679 0.2556

Moon 18324-11-13 15:50 G 8414080.05 8414080.16 8414080.27 0.2685 0.1358

Earth 18324-11-13 16:48 G 8414080.09 8414080.20 8414080.32 0.2683 0.1261 *

Jupiter 18327-04-11 11:16 G 8414958.86 8414958.97 8414959.07 0.0496 0.0335

Jupiter 18327-07-09 23:02 G 8415048.33 8415048.46 8415048.59 0.0493 0.0234

Mars 18328-02-29 12:14 G 8415282.89 8415283.01 8415283.12 0.1944 0.0840

Saturn 18330-05-28 15:21 G 8416102.07 8416102.14 8416102.23 0.0278 0.0233

Saturn 18330-08-25 06:00 G 8416190.62 8416190.75 8416190.88 0.0278 0.0130

Saturn 18330-11-21 20:38 G 8416279.21 8416279.36 8416279.52 0.0278 0.0026

Saturn 18331-02-18 11:45 G 8416367.85 8416367.99 8416368.14 0.0279 0.0084

Saturn 18331-05-18 03:21 G 8416456.53 8416456.64 8416456.75 0.0279 0.0195

Mars 18332-10-29 21:07 G 8416987.24 8416987.38 8416987.52 0.1593 0.0432

Jupiter 18333-09-10 02:38 G 8417302.46 8417302.61 8417302.76 0.0535 0.0019

Moon 18335-05-19 11:31 G 8417918.86 8417918.98 8417919.11 0.2652 0.0617

Earth 18335-05-19 12:28 G 8417918.90 8417919.02 8417919.15 0.2649 0.0747 *

Moon 18337-11-16 14:24 G 8418830.98 8418831.10 8418831.23 0.2690 0.0570

Earth 18337-11-16 14:52 G 8418830.99 8418831.12 8418831.24 0.2683 0.0613 *

Jupiter 18339-01-28 14:24 G 8419269.05 8419269.10 8419269.14 0.0496 0.0468

Jupiter 18339-04-28 01:55 G 8419358.43 8419358.58 8419358.72 0.0493 0.0096

Neptune 18340-06-07 01:12 G 8419764.52 8419764.55 8419764.59 0.0089 0.0087

Pluto 18340-08-16 19:55 G 8419835.28 8419835.33 8419835.39 0.0074 0.0070

Neptune 18340-09-03 03:21 G 8419852.58 8419852.64 8419852.73 0.0089 0.0078

Pluto 18340-11-12 22:04 G 8419923.31 8419923.42 8419923.57 0.0074 0.0055

Neptune 18340-11-30 06:00 G 8419940.65 8419940.75 8419940.85 0.0089 0.0070

Pluto 18341-02-09 00:57 G 8420011.37 8420011.54 8420011.70 0.0073 0.0039

Neptune 18341-02-26 08:09 G 8420028.73 8420028.84 8420028.96 0.0089 0.0061

Pluto 18341-05-08 03:07 G 8420099.46 8420099.63 8420099.83 0.0073 0.0024

Neptune 18341-05-25 10:19 G 8420116.81 8420116.93 8420117.07 0.0089 0.0053

Pluto 18341-08-04 05:45 G 8420187.55 8420187.74 8420187.94 0.0073 0.0008

Neptune 18341-08-21 12:57 G 8420204.90 8420205.04 8420205.18 0.0089 0.0045

Pluto 18341-10-31 08:09 G 8420275.65 8420275.84 8420276.04 0.0073 0.0007

Neptune 18341-11-17 15:07 G 8420292.99 8420293.13 8420293.28 0.0089 0.0036

Pluto 18342-01-27 10:33 G 8420363.76 8420363.94 8420364.13 0.0073 0.0022

Neptune 18342-02-13 17:16 G 8420381.08 8420381.22 8420381.38 0.0089 0.0028

Mars 18342-03-22 04:33 G 8420417.59 8420417.69 8420417.79 0.1595 0.1104

Pluto 18342-04-25 12:57 G 8420451.87 8420452.04 8420452.21 0.0073 0.0037

Neptune 18342-05-12 19:40 G 8420469.17 8420469.32 8420469.48 0.0089 0.0020

Pluto 18342-07-22 15:21 G 8420540.01 8420540.14 8420540.27 0.0073 0.0052

Neptune 18342-08-08 22:04 G 8420557.26 8420557.42 8420557.57 0.0089 0.0012

Pluto 18342-10-18 17:31 G 8420628.16 8420628.23 8420628.31 0.0073 0.0067

Neptune 18342-11-05 00:14 G 8420645.35 8420645.51 8420645.67 0.0089 0.0003

Neptune 18343-02-01 02:24 G 8420733.44 8420733.60 8420733.76 0.0089 0.0005

Neptune 18343-04-30 04:33 G 8420821.54 8420821.69 8420821.85 0.0089 0.0013

Neptune 18343-07-27 06:43 G 8420909.63 8420909.78 8420909.94 0.0089 0.0022

Neptune 18343-10-23 08:52 G 8420997.73 8420997.87 8420998.03 0.0089 0.0030

Neptune 18344-01-19 11:16 G 8421085.83 8421085.97 8421086.11 0.0089 0.0037

Neptune 18344-04-16 13:26 G 8421173.93 8421174.06 8421174.20 0.0089 0.0045

Neptune 18344-07-13 15:36 G 8421262.03 8421262.15 8421262.28 0.0089 0.0053

Saturn 18344-10-07 03:36 G 8421347.60 8421347.65 8421347.71 0.0281 0.0261

Neptune 18344-10-09 17:31 G 8421350.13 8421350.23 8421350.36 0.0089 0.0062

Saturn 18345-01-03 20:24 G 8421436.21 8421436.35 8421436.48 0.0280 0.0143

Neptune 18345-01-05 19:40 G 8421438.24 8421438.32 8421438.43 0.0089 0.0070

Saturn 18345-04-02 12:43 G 8421524.87 8421525.03 8421525.18 0.0280 0.0029

Neptune 18345-04-03 21:50 G 8421526.35 8421526.41 8421526.50 0.0089 0.0077

Jupiter 18345-06-29 03:36 G 8421612.51 8421612.65 8421612.80 0.0534 0.0158

Saturn 18345-06-30 04:33 G 8421613.54 8421613.69 8421613.83 0.0280 0.0083

Neptune 18345-07-01 00:00 G 8421614.47 8421614.50 8421614.56 0.0089 0.0085

Saturn 18345-09-26 19:55 G 8421702.22 8421702.33 8421702.44 0.0280 0.0191

Moon 18348-05-21 09:50 G 8422669.87 8422669.91 8422669.96 0.2655 0.2452

Earth 18348-05-21 10:19 G 8422669.89 8422669.93 8422669.96 0.2649 0.2525 *

Mars 18348-11-17 03:36 G 8422849.58 8422849.65 8422849.71 0.1949 0.1655

Earth 18350-11-19 12:57 G 8423582.01 8423582.04 8423582.08 0.2682 0.2545

Moon 18350-11-19 13:26 G 8423582.02 8423582.06 8423582.09 0.2689 0.2554 *

Jupiter 18351-02-14 04:19 G 8423668.53 8423668.68 8423668.83 0.0494 0.0050

Mars 18353-07-18 07:26 G 8424553.70 8424553.81 8424553.91 0.1589 0.1051

Moon 18355-05-14 21:07 G 8425219.36 8425219.38 8425219.39 0.2643 0.2602

Earth 18355-05-14 21:50 G 8425219.38 8425219.41 8425219.43 0.2648 0.2594 *

Uranus 18356-03-07 13:12 G 8425516.98 8425517.05 8425517.13 0.0145 0.0126

Uranus 18356-06-03 18:43 G 8425605.17 8425605.28 8425605.39 0.0145 0.0102

Uranus 18356-08-31 00:14 G 8425693.38 8425693.51 8425693.64 0.0145 0.0078

Uranus 18356-11-27 05:45 G 8425781.60 8425781.74 8425781.89 0.0145 0.0054

Uranus 18357-02-23 11:16 G 8425869.82 8425869.97 8425870.13 0.0145 0.0030

Jupiter 18357-04-17 04:19 G 8425922.56 8425922.68 8425922.80 0.0533 0.0339

Uranus 18357-05-22 17:02 G 8425958.05 8425958.21 8425958.37 0.0145 0.0005

Jupiter 18357-07-16 00:57 G 8426012.44 8426012.54 8426012.63 0.0536 0.0409

Venus 18357-07-17 12:00 G 8426013.92 8426014.00 8426014.09 0.3690 0.2467

Uranus 18357-08-18 22:48 G 8426046.29 8426046.45 8426046.61 0.0145 0.0020

Uranus 18357-11-15 04:19 G 8426134.54 8426134.68 8426134.84 0.0145 0.0045

Uranus 18358-02-11 10:19 G 8426222.79 8426222.93 8426223.07 0.0145 0.0070

Mars 18358-04-09 08:09 G 8426279.71 8426279.84 8426279.96 0.1947 0.0486

Uranus 18358-05-10 16:04 G 8426311.05 8426311.17 8426311.30 0.0145 0.0095

Uranus 18358-08-06 21:50 G 8426399.33 8426399.41 8426399.51 0.0145 0.0121

Saturn 18359-10-15 15:36 G 8426834.12 8426834.15 8426834.18 0.0278 0.0272

Saturn 18360-01-12 06:00 G 8426922.63 8426922.75 8426922.86 0.0278 0.0170

Saturn 18360-04-09 20:24 G 8427011.21 8427011.35 8427011.50 0.0278 0.0067

Saturn 18360-07-07 11:31 G 8427099.83 8427099.98 8427100.13 0.0279 0.0042

Saturn 18360-10-04 02:52 G 8427188.49 8427188.62 8427188.75 0.0279 0.0152

Saturn 18360-12-31 18:28 G 8427277.23 8427277.27 8427277.32 0.0279 0.0265

Jupiter 18362-12-03 06:57 G 8427978.66 8427978.79 8427978.93 0.0495 0.0190

Mars 18362-12-08 14:24 G 8427983.95 8427984.10 8427984.24 0.1591 0.0356

Venus 18363-01-31 07:26 G 8428037.70 8428037.81 8428037.93 0.3691 0.0893

Jupiter 18363-03-02 19:12 G 8428068.21 8428068.30 8428068.39 0.0492 0.0383

Venus 18364-08-13 04:33 G 8428597.61 8428597.69 8428597.78 0.3681 0.2624

Mars 18367-08-30 12:28 G 8429709.90 8429710.02 8429710.14 0.1944 0.0711

Moon 18368-05-16 18:57 G 8429970.17 8429970.29 8429970.41 0.2648 0.0902

Earth 18368-05-16 19:55 G 8429970.21 8429970.33 8429970.46 0.2648 0.0708 *

Venus 18368-08-16 02:38 G 8430061.50 8430061.61 8430061.73 0.3691 0.0639

Jupiter 18369-05-04 00:43 G 8430322.40 8430322.53 8430322.67 0.0535 0.0214

Venus 18370-02-27 02:38 G 8430621.49 8430621.61 8430621.74 0.3680 0.0778

Moon 18370-11-14 21:21 G 8430882.27 8430882.39 8430882.51 0.2686 0.1051

Earth	18370-11-14 22:19 G	8430882.31	8430882.43	8430882.55	0.2683	0.0888	*
Mars	18372-04-29 21:21 G	8431414.25	8431414.39	8431414.53	0.1593	0.0335	
Venus	18374-03-01 21:36 G	8432085.30	8432085.40	8432085.49	0.3691	0.2089	
Saturn	18374-05-23 22:04 G	8432168.29	8432168.42	8432168.54	0.0281	0.0173	
Saturn	18374-08-20 14:24 G	8432256.95	8432257.10	8432257.26	0.0281	0.0057	
Jupiter	18374-09-21 09:50 G	8432288.80	8432288.91	8432289.02	0.0496	0.0328	
Saturn	18374-11-17 06:28 G	8432345.62	8432345.77	8432345.92	0.0281	0.0056	
Jupiter	18374-12-19 21:50 G	8432378.28	8432378.41	8432378.54	0.0493	0.0242	
Saturn	18375-02-13 22:04 G	8432434.30	8432434.42	8432434.54	0.0280	0.0166	
Saturn	18375-05-13 13:12 G	8432523.02	8432523.05	8432523.08	0.0280	0.0272	
Venus	18375-09-13 01:12 G	8432645.43	8432645.55	8432645.67	0.3680	0.1160	
Venus	18379-09-15 16:04 G	8434109.14	8434109.17	8434109.21	0.3692	0.3496	
Jupiter	18381-02-20 01:12 G	8434632.40	8434632.55	8434632.70	0.0534	0.0027	
Venus	18381-03-29 00:14 G	8434669.45	8434669.51	8434669.57	0.3679	0.3209	
Moon	18381-05-19 17:02 G	8434721.09	8434721.21	8434721.33	0.2652	0.1035	
Earth	18381-05-19 18:00 G	8434721.13	8434721.25	8434721.36	0.2649	0.1124	*
Mars	18381-09-20 04:48 G	8434844.59	8434844.70	8434844.81	0.1595	0.1008	
Moon	18383-11-17 19:55 G	8435633.21	8435633.33	8435633.45	0.2690	0.0995	
Earth	18383-11-17 20:09 G	8435633.22	8435633.34	8435633.46	0.2683	0.1000	*
Jupiter	18386-07-10 12:57 G	8436598.99	8436599.04	8436599.09	0.0497	0.0462	
Jupiter	18386-10-08 00:28 G	8436688.37	8436688.52	8436688.67	0.0494	0.0103	
Mars	18388-05-18 03:36 G	8437276.60	8437276.65	8437276.70	0.1950	0.1770	
Saturn	18389-05-31 07:40 G	8437654.72	8437654.82	8437654.93	0.0278	0.0198	
Saturn	18389-08-27 22:19 G	8437743.29	8437743.43	8437743.57	0.0278	0.0095	
Saturn	18389-11-24 13:12 G	8437831.89	8437832.05	8437832.20	0.0278	0.0013	
Saturn	18390-02-21 04:19 G	8437920.54	8437920.68	8437920.82	0.0279	0.0121	
Saturn	18390-05-20 19:55 G	8438009.25	8438009.33	8438009.41	0.0279	0.0232	
Jupiter	18392-12-09 01:40 G	8438942.42	8438942.57	8438942.72	0.0534	0.0159	
Mars	18393-01-16 07:40 G	8438980.72	8438980.82	8438980.92	0.1589	0.1154	
Mars	18397-10-08 08:24 G	8440706.73	8440706.85	8440706.97	0.1947	0.0618	

Uranus 18398-06-25 15:21 G 8440967.08 8440967.14 8440967.22 0.0133 0.0118

Jupiter 18398-07-27 03:21 G 8440998.49 8440998.64 8440998.79 0.0494 0.0035

Uranus 18398-09-21 19:55 G 8441055.23 8441055.33 8441055.44 0.0133 0.0099

Uranus 18398-12-19 00:14 G 8441143.39 8441143.51 8441143.64 0.0133 0.0081

Uranus 18399-03-17 04:48 G 8441231.56 8441231.70 8441231.84 0.0133 0.0062

Uranus 18399-06-13 08:52 G 8441319.73 8441319.87 8441320.02 0.0133 0.0043

Uranus 18399-09-09 13:26 G 8441407.91 8441408.06 8441408.21 0.0133 0.0024

Uranus 18399-12-06 17:31 G 8441496.08 8441496.23 8441496.39 0.0133 0.0007

Uranus 18400-03-03 21:50 G 8441584.26 8441584.41 8441584.56 0.0133 0.0013

Uranus 18400-05-31 01:55 G 8441672.44 8441672.58 8441672.73 0.0133 0.0031

Uranus 18400-08-27 06:00 G 8441760.62 8441760.75 8441760.90 0.0133 0.0050

Uranus 18400-11-23 10:04 G 8441848.80 8441848.92 8441849.06 0.0133 0.0068

Uranus 18401-02-19 14:09 G 8441936.99 8441937.09 8441937.22 0.0133 0.0086

Moon 18401-05-15 02:24 G 8442021.55 8442021.60 8442021.66 0.2643 0.2367

Earth 18401-05-15 03:07 G 8442021.56 8442021.63 8442021.71 0.2648 0.2197 *

Uranus 18401-05-18 18:28 G 8442025.18 8442025.27 8442025.37 0.0134 0.0103

Uranus 18401-08-14 22:19 G 8442113.38 8442113.43 8442113.51 0.0134 0.0121

Mars 18402-06-08 14:38 G 8442410.97 8442411.11 8442411.25 0.1591 0.0459

Saturn 18403-10-10 20:52 G 8442900.28 8442900.37 8442900.48 0.0281 0.0219

Moon 18403-11-13 04:48 G 8442933.67 8442933.70 8442933.74 0.2683 0.2546

Earth 18403-11-13 06:00 G 8442933.69 8442933.75 8442933.81 0.2684 0.2329 *

Saturn 18404-01-07 13:40 G 8442988.92 8442989.07 8442989.21 0.0280 0.0102

Saturn 18404-04-05 05:45 G 8443077.58 8443077.74 8443077.89 0.0280 0.0012

Saturn 18404-07-02 21:21 G 8443166.26 8443166.39 8443166.53 0.0280 0.0123

Jupiter 18404-09-27 02:38 G 8443252.49 8443252.61 8443252.73 0.0533 0.0337

Saturn 18404-09-29 12:43 G 8443254.95 8443255.03 8443255.12 0.0280 0.0230

Jupiter 18404-12-25 23:16 G 8443342.37 8443342.47 8443342.56 0.0536 0.0412

Mars 18407-02-28 12:28 G 8444136.90 8444137.02 8444137.15 0.1944 0.0596

Venus 18408-08-07 14:52 G 8444663.10 8444663.12 8444663.15 0.3690 0.3588

Jupiter 18410-05-15 06:00 G 8445308.61 8445308.75 8445308.89 0.0495 0.0177

Jupiter 18410-08-12 18:00 G 8445398.17 8445398.25 8445398.34 0.0492 0.0395

Mars 18411-10-29 21:50 G 8445841.26 8445841.41 8445841.55 0.1593 0.0232

Venus 18414-02-21 10:33 G 8446686.84 8446686.94 8446687.04 0.3690 0.1972

Moon 18414-05-18 00:28 G 8446772.39 8446772.52 8446772.64 0.2649 0.0381

Earth 18414-05-18 01:26 G 8446772.43 8446772.56 8446772.69 0.2648 0.0317 *

Jupiter 18416-07-16 03:07 G 8447562.60 8447562.63 8447562.66 0.0532 0.0519

Mars 18416-07-20 16:48 G 8447567.15 8447567.20 8447567.24 0.1941 0.1799

Jupiter 18416-10-14 00:14 G 8447652.38 8447652.51 8447652.65 0.0535 0.0237

Moon 18416-11-15 02:52 G 8447684.50 8447684.62 8447684.74 0.2688 0.0526

Earth 18416-11-15 03:36 G 8447684.53 8447684.65 8447684.78 0.2683 0.0503 *

Saturn 18418-10-18 07:26 G 8448386.74 8448386.81 8448386.88 0.0278 0.0240

Saturn 18419-01-14 21:50 G 8448475.28 8448475.41 8448475.54 0.0278 0.0138

Saturn 18419-04-13 12:28 G 8448563.87 8448564.02 8448564.17 0.0278 0.0033

Saturn 18419-07-11 03:36 G 8448652.50 8448652.65 8448652.80 0.0279 0.0076

Venus 18419-09-07 06:00 G 8448710.63 8448710.75 8448710.87 0.3691 0.0402

Saturn 18419-10-07 18:57 G 8448741.18 8448741.29 8448741.41 0.0279 0.0187

Venus 18421-03-20 03:50 G 8449270.55 8449270.66 8449270.76 0.3681 0.2058

Mars 18421-03-21 05:02 G 8449271.59 8449271.71 8449271.83 0.1595 0.0909

Neptune 18421-12-05 03:50 G 8449530.62 8449530.66 8449530.72 0.0088 0.0083

Neptune 18422-03-03 05:45 G 8449618.68 8449618.74 8449618.83 0.0088 0.0075

Jupiter 18422-03-03 08:52 G 8449618.76 8449618.87 8449618.98 0.0496 0.0315 *

Neptune 18422-05-30 07:55 G 8449706.74 8449706.83 8449706.93 0.0088 0.0067

Jupiter 18422-05-31 20:38 G 8449708.23 8449708.36 8449708.49 0.0493 0.0253

Neptune 18422-08-26 09:50 G 8449794.81 8449794.91 8449795.03 0.0088 0.0060

Neptune 18422-11-22 12:00 G 8449882.88 8449883.00 8449883.12 0.0088 0.0052

Neptune 18423-02-18 13:40 G 8449970.95 8449971.07 8449971.21 0.0088 0.0045

Neptune 18423-05-17 15:50 G 8450059.02 8450059.16 8450059.30 0.0088 0.0037

Neptune 18423-08-13 17:45 G 8450147.10 8450147.24 8450147.39 0.0088 0.0030

Neptune 18423-11-09 19:55 G 8450235.18 8450235.33 8450235.48 0.0088 0.0022

Neptune 18424-02-05 21:50 G 8450323.26 8450323.41 8450323.57 0.0088 0.0015

Neptune 18424-05-04 00:00 G 8450411.34 8450411.50 8450411.65 0.0088 0.0007

Neptune 18424-07-31 01:55 G 8450499.43 8450499.58 8450499.74 0.0088 0.0003

Neptune 18424-10-27 04:04 G 8450587.51 8450587.67 8450587.83 0.0088 0.0008

Neptune 18425-01-23 06:00 G 8450675.60 8450675.75 8450675.91 0.0088 0.0016

Venus 18425-03-23 00:57 G 8450734.43 8450734.54 8450734.65 0.3691 0.1093

Neptune 18425-04-21 08:09 G 8450763.69 8450763.84 8450763.99 0.0088 0.0024

Neptune 18425-07-18 10:04 G 8450851.78 8450851.92 8450852.07 0.0088 0.0032

Neptune 18425-10-14 12:00 G 8450939.87 8450940.00 8450940.15 0.0088 0.0040

Neptune 18426-01-10 14:24 G 8451027.97 8451028.10 8451028.23 0.0088 0.0047

Neptune 18426-04-08 16:19 G 8451116.07 8451116.18 8451116.31 0.0088 0.0055

Neptune 18426-07-05 18:28 G 8451204.17 8451204.27 8451204.38 0.0088 0.0063

Neptune 18426-10-01 20:24 G 8451292.27 8451292.35 8451292.46 0.0088 0.0071

Venus 18426-10-04 01:55 G 8451294.45 8451294.58 8451294.71 0.3680 0.0190

Neptune 18426-12-28 22:33 G 8451380.38 8451380.44 8451380.52 0.0088 0.0079

Neptune 18427-03-27 00:28 G 8451468.52 8451468.52 8451468.56 0.0088 0.0088

Moon 18427-05-20 22:33 G 8451523.33 8451523.44 8451523.55 0.2653 0.1355

Earth 18427-05-20 23:16 G 8451523.37 8451523.47 8451523.58 0.2649 0.1498 *

Mars 18427-11-17 04:04 G 8451703.64 8451703.67 8451703.69 0.1949 0.1903

Jupiter 18428-08-02 00:14 G 8451962.36 8451962.51 8451962.66 0.0534 0.0042

Moon 18429-11-18 01:26 G 8452435.45 8452435.56 8452435.67 0.2690 0.1329

Earth 18429-11-18 01:40 G 8452435.46 8452435.57 8452435.68 0.2683 0.1390 *

Mars 18430-08-11 12:28 G 8452702.00 8452702.02 8452702.04 0.1597 0.1575

Venus 18430-10-06 19:55 G 8452758.24 8452758.33 8452758.41 0.3692 0.2544

Venus 18432-04-19 00:28 G 8453318.41 8453318.52 8453318.64 0.3679 0.1787

Mars 18432-07-17 07:55 G 8453407.74 8453407.83 8453407.92 0.1589 0.1256

Saturn 18433-02-26 22:19 G 8453632.36 8453632.43 8453632.50 0.0282 0.0251

Saturn 18433-05-26 14:52 G 8453720.99 8453721.12 8453721.26 0.0281 0.0133

Saturn 18433-08-23 07:12 G 8453809.65 8453809.80 8453809.96 0.0281 0.0019

Saturn 18433-11-19 23:16 G 8453898.32 8453898.47 8453898.61 0.0281 0.0095

Jupiter 18433-12-20 11:31 G 8453928.93 8453928.98 8453929.04 0.0497 0.0455

Saturn 18434-02-16 14:38 G 8453987.01 8453987.11 8453987.22 0.0281 0.0204

Jupiter 18434-03-19 23:02 G 8454018.32 8454018.46 8454018.61 0.0494 0.0112

Mars 18437-04-08 08:24 G 8455133.73 8455133.85 8455133.97 0.1947 0.0719

Uranus 18439-12-30 14:52 G 8456130.12 8456130.12 8456130.14 0.0145 0.0144

Uranus 18440-03-27 20:24 G 8456218.27 8456218.35 8456218.44 0.0145 0.0121

Jupiter 18440-05-21 00:28 G 8456272.37 8456272.52 8456272.67 0.0533 0.0147

Uranus 18440-06-24 01:40 G 8456306.47 8456306.57 8456306.70 0.0145 0.0097

Uranus 18440-09-20 07:12 G 8456394.68 8456394.80 8456394.95 0.0145 0.0073

Uranus 18440-12-17 12:57 G 8456482.89 8456483.04 8456483.19 0.0145 0.0049

Uranus 18441-03-15 18:43 G 8456571.12 8456571.28 8456571.43 0.0145 0.0024

Uranus 18441-06-12 00:14 G 8456659.35 8456659.51 8456659.67 0.0145 0.0002

Uranus 18441-09-08 06:00 G 8456747.59 8456747.75 8456747.91 0.0145 0.0026

Uranus 18441-12-05 11:31 G 8456835.84 8456835.98 8456836.14 0.0145 0.0051

Mars 18441-12-07 14:52 G 8456837.99 8456838.12 8456838.26 0.1591 0.0560

Uranus 18442-03-03 17:16 G 8456924.09 8456924.22 8456924.37 0.0145 0.0076

Uranus 18442-05-30 23:16 G 8457012.36 8457012.47 8457012.59 0.0145 0.0101

Uranus 18442-08-27 05:02 G 8457100.64 8457100.71 8457100.80 0.0145 0.0127

Jupiter 18446-01-06 01:55 G 8458328.44 8458328.58 8458328.73 0.0495 0.0030

Mars 18446-08-29 12:57 G 8458563.91 8458564.04 8458564.16 0.1944 0.0457

Moon 18447-05-16 07:55 G 8458823.73 8458823.83 8458823.92 0.2644 0.1847

Earth 18447-05-16 08:38 G 8458823.77 8458823.86 8458823.96 0.2648 0.1806 *

Saturn 18448-03-06 09:36 G 8459118.86 8459118.90 8459118.94 0.0277 0.0265

Saturn 18448-06-02 23:45 G 8459207.37 8459207.49 8459207.62 0.0277 0.0164

Saturn 18448-08-30 14:24 G 8459295.95 8459296.10 8459296.25 0.0278 0.0060

Saturn 18448-11-27 05:16 G 8459384.57 8459384.72 8459384.88 0.0278 0.0048

Saturn 18449-02-23 20:38 G 8459473.23 8459473.36 8459473.49 0.0278 0.0157

Saturn 18449-05-23 12:14 G 8459561.98 8459562.01 8459562.05 0.0279 0.0269

Moon 18449-11-13 10:19 G 8459735.84 8459735.93 8459736.01 0.2683 0.2022

Earth 18449-11-13 11:16 G 8459735.88 8459735.97 8459736.05 0.2683 0.1962 *

Mars 18451-04-29 22:04 G 8460268.28 8460268.42 8460268.57 0.1593 0.0127

Jupiter 18452-03-09 00:43 G 8460582.41 8460582.53 8460582.65 0.0533 0.0336

Jupiter 18452-06-06 21:21 G 8460672.29 8460672.39 8460672.48 0.0536 0.0411

Mars 18456-01-19 17:02 G 8461994.14 8461994.21 8461994.27 0.1940 0.1677

Jupiter 18457-10-25 05:02 G 8462638.57 8462638.71 8462638.85 0.0495 0.0163

Jupiter 18458-01-22 17:02 G 8462728.14 8462728.21 8462728.30 0.0492 0.0411

Moon 18460-05-18 05:45 G 8463574.61 8463574.74 8463574.87 0.2650 0.0161

Earth 18460-05-18 06:57 G 8463574.66 8463574.79 8463574.92 0.2649 0.0108 *

Mars 18460-09-19 05:16 G 8463698.60 8463698.72 8463698.85 0.1595 0.0806

Saturn 18462-10-13 14:09 G 8464452.97 8464453.09 8464453.22 0.0281 0.0177

Moon 18462-11-16 08:24 G 8464486.72 8464486.85 8464486.97 0.2689 0.0279

Earth 18462-11-16 08:52 G 8464486.75 8464486.87 8464487.00 0.2683 0.0141 *

Saturn 18463-01-10 06:43 G 8464541.63 8464541.78 8464541.93 0.0281 0.0061

Saturn 18463-04-08 22:48 G 8464630.30 8464630.45 8464630.60 0.0280 0.0052

Saturn 18463-07-06 14:24 G 8464718.98 8464719.10 8464719.22 0.0280 0.0162

Saturn 18463-10-03 05:31 G 8464807.70 8464807.73 8464807.77 0.0280 0.0269

Jupiter 18463-12-27 01:26 G 8464892.53 8464892.56 8464892.59 0.0532 0.0517

Jupiter 18464-03-25 22:33 G 8464982.31 8464982.44 8464982.58 0.0535 0.0239

Venus 18465-03-14 13:26 G 8465336.00 8465336.06 8465336.12 0.3690 0.3085

Jupiter 18469-08-13 07:40 G 8466948.71 8466948.82 8466948.94 0.0496 0.0304

Jupiter 18469-11-10 19:26 G 8467038.19 8467038.31 8467038.44 0.0493 0.0265

Mars 18470-02-09 12:43 G 8467128.98 8467129.03 8467129.08 0.1597 0.1479

Venus 18470-09-28 09:07 G 8467359.77 8467359.88 8467359.99 0.3690 0.1476

Mars 18472-01-16 08:24 G 8467834.77 8467834.85 8467834.92 0.1589 0.1366

Venus 18472-04-10 05:02 G 8467919.66 8467919.71 8467919.77 0.3681 0.3290

Moon 18473-05-21 04:04 G 8468325.58 8468325.67 8468325.76 0.2654 0.1863

Earth 18473-05-21 04:48 G 8468325.61 8468325.70 8468325.79 0.2649 0.1875 *

Moon 18475-11-19 06:57 G 8469237.70 8469237.79 8469237.89 0.2689 0.1850

Earth 18475-11-19 06:57 G 8469237.70 8469237.79 8469237.89 0.2683 0.1783 *

Jupiter 18476-01-12 23:45 G 8469292.33 8469292.49 8469292.64 0.0535 0.0064

Venus 18476-04-13 04:19 G 8469383.57 8469383.68 8469383.80 0.3691 0.0082

Mars	18476-10-07 08:52 G	8469560.75	8469560.87	8469560.98	0.1947	0.0860
Saturn	18477-10-20 23:31 G	8469939.38	8469939.48	8469939.58	0.0278	0.0207
Venus	18477-10-25 02:52 G	8469943.51	8469943.62	8469943.74	0.3680	0.1491
Saturn	18478-01-17 13:55 G	8470027.94	8470028.08	8470028.22	0.0278	0.0104
Saturn	18478-04-16 04:33 G	8470116.54	8470116.69	8470116.85	0.0278	0.0007
Saturn	18478-07-13 19:40 G	8470205.18	8470205.32	8470205.47	0.0279	0.0111
Saturn	18478-10-10 11:16 G	8470293.88	8470293.97	8470294.06	0.0279	0.0222
Jupiter	18481-06-01 10:33 G	8471258.88	8471258.94	8471259.01	0.0496	0.0442
Mars	18481-06-07 15:07 G	8471265.00	8471265.13	8471265.27	0.1591	0.0664
Jupiter	18481-08-29 22:04 G	8471348.28	8471348.42	8471348.57	0.0494	0.0125
Venus	18481-10-27 23:16 G	8471407.37	8471407.47	8471407.58	0.3691	0.1559
Uranus	18482-07-15 22:19 G	8471668.36	8471668.43	8471668.51	0.0133	0.0114
Uranus	18482-10-12 02:38 G	8471756.51	8471756.61	8471756.73	0.0133	0.0096
Uranus	18483-01-08 07:12 G	8471844.68	8471844.80	8471844.93	0.0133	0.0077
Uranus	18483-04-06 11:31 G	8471932.84	8471932.98	8471933.12	0.0133	0.0058
Venus	18483-05-11 01:12 G	8471967.43	8471967.55	8471967.68	0.3680	0.0429
Uranus	18483-07-03 15:50 G	8472021.02	8472021.16	8472021.31	0.0133	0.0039
Uranus	18483-09-29 20:09 G	8472109.19	8472109.34	8472109.50	0.0133	0.0021
Uranus	18483-12-27 00:28 G	8472197.37	8472197.52	8472197.67	0.0133	0.0002
Uranus	18484-03-24 04:48 G	8472285.54	8472285.70	8472285.85	0.0133	0.0017
Uranus	18484-06-20 08:52 G	8472373.72	8472373.87	8472374.02	0.0133	0.0035
Uranus	18484-09-16 13:12 G	8472461.91	8472462.05	8472462.19	0.0133	0.0053
Uranus	18484-12-13 17:16 G	8472550.09	8472550.22	8472550.35	0.0133	0.0071
Uranus	18485-03-11 21:21 G	8472638.28	8472638.39	8472638.50	0.0133	0.0089
Uranus	18485-06-08 01:12 G	8472726.47	8472726.55	8472726.65	0.0133	0.0107
Uranus	18485-09-04 05:16 G	8472814.68	8472814.72	8472814.78	0.0134	0.0124
Mars	18486-02-27 12:57 G	8472990.92	8472991.04	8472991.17	0.1944	0.0347
Venus	18487-05-13 18:00 G	8473431.19	8473431.25	8473431.32	0.3692	0.2993
Jupiter	18487-10-31 23:31 G	8473602.33	8473602.48	8473602.63	0.0533	0.0131
Venus	18488-11-24 00:00 G	8473991.41	8473991.50	8473991.60	0.3679	0.2425

Mars	18490-10-28 22:19 G	8474695.29	8474695.43	8474695.58	0.1593	0.0029
Saturn	18492-03-01 15:07 G	8475185.03	8475185.13	8475185.24	0.0282	0.0212
Saturn	18492-05-29 07:40 G	8475273.68	8475273.82	8475273.97	0.0282	0.0095
Saturn	18492-08-26 00:00 G	8475362.35	8475362.50	8475362.66	0.0281	0.0021
Saturn	18492-11-22 15:50 G	8475451.02	8475451.16	8475451.30	0.0281	0.0132
Saturn	18493-02-19 07:12 G	8475539.73	8475539.80	8475539.88	0.0281	0.0240
Moon	18493-05-16 13:12 G	8475625.95	8475626.05	8475626.16	0.2646	0.1571
Earth	18493-05-16 14:09 G	8475625.98	8475626.09	8475626.20	0.2648	0.1407 *
Jupiter	18493-06-18 00:43 G	8475658.38	8475658.53	8475658.68	0.0495	0.0021
Mars	18495-07-20 17:02 G	8476421.14	8476421.21	8476421.29	0.1941	0.1560
Moon	18495-11-14 15:36 G	8476538.06	8476538.15	8476538.25	0.2685	0.1764
Earth	18495-11-14 16:33 G	8476538.09	8476538.19	8476538.29	0.2683	0.1585 *
Jupiter	18499-08-19 23:31 G	8477912.36	8477912.48	8477912.61	0.0532	0.0322
Jupiter	18499-11-17 20:09 G	8478002.25	8478002.34	8478002.43	0.0535	0.0423
Mars	18500-03-21 05:31 G	8478125.61	8478125.73	8478125.86	0.1595	0.0710
Pluto	18501-05-19 09:21 G	8478549.85	8478549.89	8478549.94	0.0070	0.0066
Pluto	18501-08-15 09:50 G	8478637.84	8478637.91	8478638.00	0.0071	0.0057
Pluto	18501-11-11 10:19 G	8478725.85	8478725.93	8478726.04	0.0071	0.0048
Pluto	18502-02-07 11:16 G	8478813.86	8478813.97	8478814.09	0.0071	0.0038
Pluto	18502-05-06 11:45 G	8478901.88	8478901.99	8478902.12	0.0071	0.0029
Pluto	18502-08-02 12:43 G	8478989.90	8478990.03	8478990.16	0.0071	0.0019
Pluto	18502-10-29 13:12 G	8479077.92	8479078.05	8479078.19	0.0071	0.0010
Pluto	18503-01-25 13:55 G	8479165.95	8479166.08	8479166.22	0.0071	0.0002
Pluto	18503-04-23 14:38 G	8479253.98	8479254.11	8479254.24	0.0071	0.0010
Pluto	18503-07-20 15:21 G	8479342.01	8479342.14	8479342.27	0.0071	0.0019
Pluto	18503-10-16 16:04 G	8479430.05	8479430.17	8479430.29	0.0072	0.0029
Pluto	18504-01-12 16:33 G	8479518.09	8479518.19	8479518.31	0.0072	0.0039
Pluto	18504-04-09 17:16 G	8479606.13	8479606.22	8479606.32	0.0072	0.0049
Pluto	18504-07-06 18:00 G	8479694.18	8479694.25	8479694.33	0.0072	0.0059
Pluto	18504-10-02 18:28 G	8479782.25	8479782.27	8479782.32	0.0072	0.0069

Neptune 18505-03-05 00:28 G 8479935.47 8479935.52 8479935.59 0.0089 0.0083

Jupiter 18505-04-07 03:36 G 8479968.51 8479968.65 8479968.79 0.0495 0.0158

Neptune 18505-06-01 02:38 G 8480023.54 8480023.61 8480023.72 0.0089 0.0075

Jupiter 18505-07-05 15:50 G 8480058.08 8480058.16 8480058.24 0.0493 0.0417

Neptune 18505-08-28 05:16 G 8480111.62 8480111.72 8480111.83 0.0089 0.0066

Neptune 18505-11-24 07:26 G 8480199.70 8480199.81 8480199.95 0.0089 0.0058

Neptune 18506-02-20 09:50 G 8480287.78 8480287.91 8480288.05 0.0089 0.0049

Neptune 18506-05-19 12:14 G 8480375.87 8480376.01 8480376.16 0.0089 0.0041

Moon 18506-05-20 11:16 G 8480376.84 8480376.97 8480377.09 0.2650 0.0395

Earth 18506-05-20 12:14 G 8480376.88 8480377.01 8480377.14 0.2649 0.0447 *

Neptune 18506-08-15 14:24 G 8480463.96 8480464.10 8480464.26 0.0089 0.0033

Neptune 18506-11-11 16:48 G 8480552.05 8480552.20 8480552.36 0.0089 0.0024

Neptune 18507-02-07 19:12 G 8480640.14 8480640.30 8480640.46 0.0089 0.0016

Saturn 18507-03-11 01:40 G 8480671.50 8480671.57 8480671.66 0.0277 0.0231

Neptune 18507-05-06 21:21 G 8480728.23 8480728.39 8480728.55 0.0089 0.0008

Saturn 18507-06-07 16:04 G 8480760.04 8480760.17 8480760.31 0.0277 0.0129

Neptune 18507-08-02 23:45 G 8480816.33 8480816.49 8480816.65 0.0089 0.0002

Saturn 18507-09-04 06:43 G 8480848.63 8480848.78 8480848.94 0.0278 0.0025

Neptune 18507-10-30 01:55 G 8480904.42 8480904.58 8480904.74 0.0089 0.0009

Saturn 18507-12-01 21:50 G 8480937.26 8480937.41 8480937.56 0.0278 0.0084

Neptune 18508-01-26 04:04 G 8480992.52 8480992.67 8480992.83 0.0089 0.0017

Saturn 18508-02-28 13:12 G 8481025.94 8481026.05 8481026.16 0.0278 0.0194

Neptune 18508-04-23 06:14 G 8481080.61 8481080.76 8481080.92 0.0089 0.0025

Neptune 18508-07-20 08:24 G 8481168.71 8481168.85 8481169.00 0.0089 0.0033

Neptune 18508-10-16 10:33 G 8481256.81 8481256.94 8481257.09 0.0089 0.0042

Moon 18508-11-17 13:40 G 8481288.95 8481289.07 8481289.20 0.2689 0.0279

Earth 18508-11-17 14:24 G 8481288.97 8481289.10 8481289.23 0.2683 0.0266 *

Neptune 18509-01-12 12:43 G 8481344.91 8481345.03 8481345.17 0.0089 0.0050

Neptune 18509-04-10 14:52 G 8481433.01 8481433.12 8481433.25 0.0089 0.0058

Neptune 18509-07-07 17:02 G 8481521.11 8481521.21 8481521.33 0.0089 0.0066

Mars 18509-08-11 13:12 G 8481555.98 8481556.05 8481556.12 0.1597 0.1378

Neptune 18509-10-03 19:12 G 8481609.22 8481609.30 8481609.40 0.0089 0.0073

Neptune 18509-12-30 21:07 G 8481697.34 8481697.38 8481697.46 0.0089 0.0082

Neptune 18510-03-28 23:31 G 8481785.48 8481785.48 8481785.50 0.0089 0.0089

Jupiter 18511-06-08 23:31 G 8482222.45 8482222.48 8482222.52 0.0532 0.0515

Mars 18511-07-18 08:38 G 8482261.81 8482261.86 8482261.91 0.1589 0.1470

Jupiter 18511-09-06 20:38 G 8482312.23 8482312.36 8482312.50 0.0535 0.0239

Mars 18516-04-08 09:07 G 8483987.77 8483987.88 8483987.99 0.1947 0.0985

Jupiter 18517-01-24 06:43 G 8484278.66 8484278.78 8484278.90 0.0496 0.0292

Jupiter 18517-04-23 18:28 G 8484368.15 8484368.27 8484368.39 0.0493 0.0278

Moon 18519-05-23 09:36 G 8485127.83 8485127.90 8485127.98 0.2655 0.2123

Earth 18519-05-23 10:04 G 8485127.85 8485127.92 8485127.99 0.2649 0.2244 *

Mars 18520-12-07 15:36 G 8485692.02 8485692.15 8485692.28 0.1591 0.0771

Saturn 18521-07-20 14:38 G 8485917.05 8485917.11 8485917.18 0.0281 0.0254

Saturn 18521-10-17 07:26 G 8486005.67 8486005.81 8486005.95 0.0281 0.0136

Venus 18521-10-20 12:00 G 8486008.92 8486009.00 8486009.09 0.3690 0.2577

Earth 18521-11-20 12:28 G 8486039.95 8486040.02 8486040.09 0.2682 0.2176

Moon 18521-11-20 12:43 G 8486039.96 8486040.03 8486040.11 0.2689 0.2150 *

Saturn 18522-01-13 23:45 G 8486094.34 8486094.49 8486094.65 0.0281 0.0021

Saturn 18522-04-12 15:36 G 8486183.01 8486183.15 8486183.30 0.0280 0.0093

Saturn 18522-07-10 07:12 G 8486271.70 8486271.80 8486271.91 0.0280 0.0201

Jupiter 18523-06-25 21:50 G 8486622.26 8486622.41 8486622.56 0.0534 0.0063

Uranus 18524-01-20 22:04 G 8486831.39 8486831.42 8486831.48 0.0145 0.0139

Uranus 18524-04-18 03:50 G 8486919.57 8486919.66 8486919.76 0.0145 0.0114

Uranus 18524-07-15 09:21 G 8487007.77 8487007.89 8487008.01 0.0145 0.0090

Uranus 18524-10-11 14:52 G 8487095.98 8487096.12 8487096.26 0.0145 0.0066

Uranus 18525-01-07 20:24 G 8487184.20 8487184.35 8487184.50 0.0145 0.0042

Uranus 18525-04-06 01:55 G 8487272.43 8487272.58 8487272.74 0.0145 0.0018

Uranus 18525-07-03 07:40 G 8487360.66 8487360.82 8487360.98 0.0145 0.0007

Mars 18525-08-29 13:26 G 8487417.93 8487418.06 8487418.18 0.1944 0.0217

Uranus 18525-09-29 13:26 G 8487448.90 8487449.06 8487449.22 0.0145 0.0032

Uranus 18525-12-26 19:12 G 8487537.15 8487537.30 8487537.45 0.0145 0.0057

Uranus 18526-03-25 00:43 G 8487625.41 8487625.53 8487625.67 0.0145 0.0083

Uranus 18526-06-21 06:43 G 8487713.68 8487713.78 8487713.89 0.0145 0.0108

Uranus 18526-09-17 12:28 G 8487801.97 8487802.02 8487802.09 0.0145 0.0134

Venus 18527-05-06 07:40 G 8488032.70 8488032.82 8488032.93 0.3690 0.0988

Jupiter 18528-11-12 09:36 G 8488588.83 8488588.90 8488588.97 0.0496 0.0431

Venus 18528-11-16 04:19 G 8488592.60 8488592.68 8488592.76 0.3681 0.2736

Jupiter 18529-02-09 20:52 G 8488678.23 8488678.37 8488678.52 0.0494 0.0135

Mars 18530-04-29 22:48 G 8489122.30 8489122.45 8489122.59 0.1593 0.0090

Venus 18532-11-19 02:52 G 8490056.50 8490056.62 8490056.73 0.3691 0.0567

Venus 18534-06-02 02:09 G 8490616.47 8490616.59 8490616.72 0.3680 0.0904

Mars 18535-01-19 17:31 G 8490848.14 8490848.23 8490848.31 0.1941 0.1425

Jupiter 18535-04-13 22:48 G 8490932.30 8490932.45 8490932.60 0.0534 0.0116

Saturn 18536-07-28 01:26 G 8491403.54 8491403.56 8491403.59 0.0277 0.0273

Saturn 18536-10-24 15:36 G 8491492.04 8491492.15 8491492.27 0.0278 0.0172

Saturn 18537-01-21 06:14 G 8491580.61 8491580.76 8491580.90 0.0278 0.0068

Saturn 18537-04-19 21:07 G 8491669.23 8491669.38 8491669.53 0.0278 0.0039

Saturn 18537-07-17 12:14 G 8491757.88 8491758.01 8491758.14 0.0278 0.0148

Saturn 18537-10-14 03:50 G 8491846.61 8491846.66 8491846.72 0.0279 0.0260

Venus 18538-06-04 21:36 G 8492080.31 8492080.40 8492080.50 0.3691 0.2028

Moon 18539-05-18 18:28 G 8492428.16 8492428.27 8492428.39 0.2647 0.1141

Earth 18539-05-18 19:40 G 8492428.20 8492428.32 8492428.44 0.2648 0.1018 *

Mars 18539-09-20 06:00 G 8492552.61 8492552.75 8492552.88 0.1595 0.0612

Venus 18539-12-17 00:43 G 8492640.41 8492640.53 8492640.65 0.3679 0.1037

Jupiter 18540-11-28 23:45 G 8492988.34 8492988.49 8492988.64 0.0494 0.0008

Moon 18541-11-15 21:07 G 8493340.27 8493340.38 8493340.48 0.2687 0.1307

Earth 18541-11-15 21:50 G 8493340.30 8493340.41 8493340.52 0.2683 0.1214 *

Venus 18543-12-19 16:19 G 8494104.14 8494104.18 8494104.22 0.3692 0.3437

Venus 18545-07-01 23:31 G 8494664.41 8494664.48 8494664.55 0.3679 0.3076

Jupiter	18547-01-30 22:48 G	8495242.32	8495242.45	8495242.57	0.0532	0.0306
Jupiter	18547-04-30 19:12 G	8495332.22	8495332.30	8495332.38	0.0535	0.0438
Mars	18549-02-09 13:12 G	8495982.97	8495983.05	8495983.14	0.1597	0.1284
Mars	18551-01-16 08:52 G	8496688.86	8496688.87	8496688.89	0.1589	0.1573
Saturn	18551-03-06 08:09 G	8496737.72	8496737.84	8496737.97	0.0282	0.0172
Saturn	18551-06-03 00:43 G	8496826.38	8496826.53	8496826.68	0.0282	0.0055
Saturn	18551-08-30 16:48 G	8496915.05	8496915.20	8496915.35	0.0281	0.0059
Saturn	18551-11-27 08:24 G	8497003.73	8497003.85	8497003.98	0.0281	0.0170
Saturn	18552-02-23 23:45 G	8497092.48	8497092.49	8497092.51	0.0281	0.0278
Moon	18552-05-20 16:48 G	8497179.07	8497179.20	8497179.32	0.2651	0.0647
Earth	18552-05-20 17:45 G	8497179.11	8497179.24	8497179.36	0.2649	0.0834 *
Jupiter	18552-09-17 02:09 G	8497298.45	8497298.59	8497298.73	0.0496	0.0152
Jupiter	18552-12-15 14:24 G	8497388.02	8497388.10	8497388.17	0.0493	0.0424
Moon	18554-11-18 19:12 G	8498091.18	8498091.30	8498091.43	0.2689	0.0525
Earth	18554-11-18 19:40 G	8498091.20	8498091.32	8498091.45	0.2683	0.0652 *
Mars	18555-10-08 09:07 G	8498414.78	8498414.88	8498414.99	0.1947	0.1097
Jupiter	18558-11-18 22:33 G	8499552.39	8499552.44	8499552.49	0.0531	0.0499
Jupiter	18559-02-16 19:40 G	8499642.19	8499642.32	8499642.45	0.0534	0.0253
Mars	18560-06-07 15:50 G	8500119.04	8500119.16	8500119.28	0.1591	0.0872
Jupiter	18564-07-06 05:02 G	8501608.59	8501608.71	8501608.83	0.0496	0.0289
Jupiter	18564-10-03 16:48 G	8501698.08	8501698.20	8501698.33	0.0493	0.0283
Mars	18565-02-27 13:40 G	8501844.94	8501845.07	8501845.19	0.1945	0.0105
Earth	18565-05-23 15:21 G	8501930.13	8501930.14	8501930.16	0.2649	0.2619
Saturn	18566-03-13 18:28 G	8502224.16	8502224.27	8502224.37	0.0277	0.0194
Uranus	18566-05-10 00:57 G	8502281.51	8502281.54	8502281.58	0.0133	0.0129
Saturn	18566-06-10 08:52 G	8502312.72	8502312.87	8502313.01	0.0277	0.0092
Uranus	18566-08-06 05:31 G	8502369.64	8502369.73	8502369.82	0.0133	0.0110
Saturn	18566-09-06 23:31 G	8502401.33	8502401.48	8502401.63	0.0278	0.0015
Uranus	18566-11-02 09:50 G	8502457.80	8502457.91	8502458.03	0.0133	0.0091
Saturn	18566-12-04 14:38 G	8502489.97	8502490.11	8502490.25	0.0278	0.0123

Uranus	18567-01-29 14:24 G	8502545.97	8502546.10	8502546.23	0.0133	0.0072	
Saturn	18567-03-03 06:00 G	8502578.67	8502578.75	8502578.84	0.0278	0.0234	
Uranus	18567-04-27 18:28 G	8502634.14	8502634.27	8502634.42	0.0133	0.0053	
Uranus	18567-07-24 23:02 G	8502722.31	8502722.46	8502722.61	0.0133	0.0034	
Uranus	18567-10-21 03:21 G	8502810.49	8502810.64	8502810.79	0.0133	0.0016	
Earth	18567-11-21 17:45 G	8502842.21	8502842.24	8502842.28	0.2682	0.2572	
Uranus	18568-01-17 07:40 G	8502898.66	8502898.82	8502898.97	0.0133	0.0004	
Uranus	18568-04-14 11:45 G	8502986.84	8502986.99	8502987.14	0.0133	0.0021	
Uranus	18568-07-11 16:04 G	8503075.02	8503075.17	8503075.31	0.0133	0.0039	
Uranus	18568-10-07 20:09 G	8503163.21	8503163.34	8503163.48	0.0133	0.0058	
Uranus	18569-01-04 00:14 G	8503251.39	8503251.51	8503251.64	0.0133	0.0076	
Uranus	18569-04-02 04:19 G	8503339.58	8503339.68	8503339.79	0.0133	0.0094	
Uranus	18569-06-29 08:24 G	8503427.78	8503427.85	8503427.94	0.0133	0.0111	
Uranus	18569-09-25 12:28 G	8503515.99	8503516.02	8503516.06	0.0133	0.0129	
Mars	18569-10-28 23:02 G	8503549.31	8503549.46	8503549.60	0.1593	0.0180	
Jupiter	18570-12-05 19:55 G	8503952.18	8503952.33	8503952.48	0.0534	0.0064	
Moon	18572-05-16 02:09 G	8504479.58	8504479.59	8504479.59	0.2643	0.2636	
Earth	18572-05-16 02:38 G	8504479.58	8504479.61	8504479.65	0.2648	0.2524	*
Mars	18574-07-20 17:45 G	8505275.15	8505275.24	8505275.34	0.1941	0.1295	
Earth	18574-11-14 05:31 G	8505391.72	8505391.73	8505391.75	0.2684	0.2649	
Jupiter	18576-04-24 08:09 G	8505918.77	8505918.84	8505918.92	0.0497	0.0423	
Jupiter	18576-07-22 19:40 G	8506008.18	8506008.32	8506008.47	0.0494	0.0145	
Venus	18578-05-27 10:33 G	8506681.85	8506681.94	8506682.04	0.3690	0.2069	
Mars	18579-03-21 06:14 G	8506979.62	8506979.76	8506979.90	0.1595	0.0505	
Saturn	18580-07-23 07:55 G	8507469.73	8507469.83	8507469.94	0.0282	0.0212	
Saturn	18580-10-20 00:43 G	8507558.38	8507558.53	8507558.68	0.0281	0.0094	
Saturn	18581-01-16 17:02 G	8507647.05	8507647.21	8507647.36	0.0281	0.0021	
Saturn	18581-04-15 08:52 G	8507735.73	8507735.87	8507736.00	0.0281	0.0133	
Saturn	18581-07-13 00:14 G	8507824.44	8507824.51	8507824.59	0.0280	0.0241	
Jupiter	18582-09-23 20:52 G	8508262.22	8508262.37	8508262.52	0.0533	0.0117	

Venus 18583-12-11 06:00 G 8508705.64 8508705.75 8508705.87 0.3690 0.0494

Moon 18585-05-19 00:00 G 8509230.38 8509230.50 8509230.63 0.2647 0.0767

Earth 18585-05-19 01:12 G 8509230.42 8509230.55 8509230.67 0.2648 0.0626 *

Venus 18585-06-23 03:21 G 8509265.54 8509265.64 8509265.74 0.3680 0.2171

Neptune 18586-06-06 01:26 G 8509613.54 8509613.56 8509613.59 0.0088 0.0086

Neptune 18586-09-02 03:07 G 8509701.58 8509701.63 8509701.71 0.0088 0.0079

Neptune 18586-11-29 05:02 G 8509789.64 8509789.71 8509789.81 0.0088 0.0072

Pluto 18587-01-06 07:12 G 8509827.76 8509827.80 8509827.89 0.0074 0.0070

Neptune 18587-02-25 07:12 G 8509877.70 8509877.80 8509877.91 0.0088 0.0064

Pluto 18587-04-04 09:50 G 8509915.79 8509915.91 8509916.06 0.0074 0.0054

Neptune 18587-05-24 08:52 G 8509965.77 8509965.87 8509966.00 0.0088 0.0058

Pluto 18587-07-01 12:14 G 8510003.86 8510004.01 8510004.19 0.0073 0.0039

Neptune 18587-08-20 11:02 G 8510053.84 8510053.96 8510054.10 0.0088 0.0050

Pluto 18587-09-27 15:07 G 8510091.94 8510092.13 8510092.32 0.0073 0.0023

Neptune 18587-11-16 12:57 G 8510141.92 8510142.04 8510142.19 0.0088 0.0042

Moon 18587-11-17 02:24 G 8510142.48 8510142.60 8510142.72 0.2687 0.0961

Earth 18587-11-17 03:07 G 8510142.51 8510142.63 8510142.75 0.2683 0.0842 *

Pluto 18587-12-24 17:31 G 8510180.04 8510180.23 8510180.42 0.0073 0.0007

Neptune 18588-02-12 15:07 G 8510229.99 8510230.13 8510230.28 0.0088 0.0034

Pluto 18588-03-21 19:55 G 8510268.14 8510268.33 8510268.52 0.0073 0.0008

Neptune 18588-05-10 17:02 G 8510318.07 8510318.21 8510318.36 0.0088 0.0027

Jupiter 18588-05-10 22:19 G 8510318.29 8510318.43 8510318.58 0.0494 0.0013 *

Pluto 18588-06-17 22:04 G 8510356.25 8510356.42 8510356.62 0.0073 0.0023

Neptune 18588-08-06 19:12 G 8510406.15 8510406.30 8510406.45 0.0088 0.0019

Mars 18588-08-10 13:40 G 8510409.97 8510410.07 8510410.16 0.1597 0.1183

Pluto 18588-09-14 00:28 G 8510444.36 8510444.52 8510444.70 0.0073 0.0038

Neptune 18588-11-02 21:07 G 8510494.23 8510494.38 8510494.54 0.0088 0.0012

Pluto 18588-12-11 02:52 G 8510532.50 8510532.62 8510532.76 0.0073 0.0053

Neptune 18589-01-29 23:16 G 8510582.31 8510582.47 8510582.62 0.0088 0.0004

Pluto 18589-03-09 05:02 G 8510620.66 8510620.71 8510620.79 0.0073 0.0068

Neptune 18589-04-28 01:12 G 8510670.40 8510670.55 8510670.71 0.0088 0.0004

Venus 18589-06-26 01:12 G 8510729.44 8510729.55 8510729.66 0.3691 0.1025

Neptune 18589-07-25 03:07 G 8510758.48 8510758.63 8510758.79 0.0088 0.0012

Neptune 18589-10-21 05:16 G 8510846.57 8510846.72 8510846.88 0.0088 0.0019

Neptune 18590-01-17 07:26 G 8510934.66 8510934.81 8510934.96 0.0088 0.0027

Neptune 18590-04-15 09:21 G 8511022.75 8511022.89 8511023.04 0.0088 0.0035

Neptune 18590-07-12 11:16 G 8511110.84 8511110.97 8511111.12 0.0088 0.0043

Neptune 18590-10-08 13:12 G 8511198.94 8511199.05 8511199.20 0.0088 0.0051

Neptune 18591-01-04 15:36 G 8511287.04 8511287.15 8511287.27 0.0088 0.0058

Venus 18591-01-07 01:26 G 8511289.44 8511289.56 8511289.69 0.3680 0.0317

Neptune 18591-04-02 17:45 G 8511375.14 8511375.24 8511375.35 0.0088 0.0066

Neptune 18591-06-29 19:40 G 8511463.25 8511463.32 8511463.41 0.0088 0.0074

Neptune 18591-09-25 21:50 G 8511551.36 8511551.41 8511551.47 0.0088 0.0082

Jupiter 18594-07-12 21:36 G 8512572.27 8512572.40 8512572.53 0.0533 0.0295

Jupiter 18594-10-10 18:14 G 8512662.18 8512662.26 8512662.34 0.0536 0.0452

Venus 18595-01-09 19:55 G 8512753.25 8512753.33 8512753.42 0.3692 0.2487

Mars 18595-04-08 09:21 G 8512841.79 8512841.89 8512841.99 0.1948 0.1226

Saturn 18595-07-31 18:14 G 8512956.18 8512956.26 8512956.33 0.0277 0.0236

Saturn 18595-10-28 08:24 G 8513044.72 8513044.85 8513044.98 0.0277 0.0134

Saturn 18596-01-24 23:02 G 8513133.31 8513133.46 8513133.61 0.0278 0.0030

Saturn 18596-04-22 13:55 G 8513221.93 8513222.08 8513222.23 0.0278 0.0078

Saturn 18596-07-20 05:16 G 8513310.61 8513310.72 8513310.83 0.0278 0.0188

Venus 18596-07-23 00:00 G 8513313.39 8513313.50 8513313.62 0.3679 0.1663

Moon 18598-05-21 22:19 G 8513981.31 8513981.43 8513981.54 0.2653 0.1151

Earth 18598-05-21 23:02 G 8513981.35 8513981.46 8513981.58 0.2649 0.1213 *

Mars 18599-12-07 16:04 G 8514546.06 8514546.17 8514546.29 0.1591 0.0976

Jupiter 18600-02-28 01:12 G 8514628.41 8514628.55 8514628.69 0.0495 0.0138

Jupiter 18600-05-28 13:26 G 8514717.99 8514718.06 8514718.12 0.0492 0.0436

Moon 18600-11-20 00:57 G 8514893.42 8514893.54 8514893.65 0.2689 0.1053

Earth 18600-11-20 01:12 G 8514893.43 8514893.55 8514893.66 0.2683 0.1035 *

Mars 18604-08-29 13:55 G 8516271.95 8516272.08 8516272.20 0.1944 0.0070

Jupiter 18606-05-01 21:36 G 8516882.34 8516882.40 8516882.46 0.0531 0.0484

Jupiter 18606-07-30 18:43 G 8516972.15 8516972.28 8516972.41 0.0534 0.0267

Uranus 18608-02-11 05:45 G 8517532.68 8517532.74 8517532.80 0.0145 0.0132

Uranus 18608-05-09 11:02 G 8517620.86 8517620.96 8517621.07 0.0145 0.0108

Uranus 18608-08-05 16:33 G 8517709.07 8517709.19 8517709.32 0.0145 0.0084

Uranus 18608-11-01 22:04 G 8517797.28 8517797.42 8517797.57 0.0145 0.0060

Uranus 18609-01-29 03:50 G 8517885.50 8517885.66 8517885.81 0.0145 0.0036

Uranus 18609-04-27 09:21 G 8517973.73 8517973.89 8517974.05 0.0145 0.0011

Mars 18609-04-29 23:16 G 8517976.33 8517976.47 8517976.61 0.1593 0.0279

Uranus 18609-07-24 15:07 G 8518061.97 8518062.13 8518062.29 0.0145 0.0014

Uranus 18609-10-20 20:38 G 8518150.21 8518150.36 8518150.52 0.0145 0.0039

Saturn 18609-12-11 08:24 G 8518201.78 8518201.85 8518201.92 0.0282 0.0250

Uranus 18610-01-17 02:24 G 8518238.46 8518238.60 8518238.75 0.0145 0.0064

Saturn 18610-03-10 01:12 G 8518290.41 8518290.55 8518290.69 0.0282 0.0131

Uranus 18610-04-15 08:24 G 8518326.72 8518326.85 8518326.98 0.0145 0.0089

Saturn 18610-06-06 17:45 G 8518379.08 8518379.24 8518379.40 0.0282 0.0015

Uranus 18610-07-12 13:55 G 8518415.00 8518415.08 8518415.19 0.0145 0.0115

Saturn 18610-09-03 09:36 G 8518467.76 8518467.90 8518468.05 0.0282 0.0100

Uranus 18610-10-08 19:55 G 8518503.30 8518503.33 8518503.38 0.0145 0.0141

Saturn 18610-12-01 01:12 G 8518556.46 8518556.55 8518556.66 0.0281 0.0209

Jupiter 18611-12-18 03:36 G 8518938.53 8518938.65 8518938.77 0.0496 0.0284

Jupiter 18612-03-16 15:21 G 8519028.02 8519028.14 8519028.26 0.0494 0.0288

Mars 18614-01-19 17:45 G 8519702.14 8519702.24 8519702.34 0.1941 0.1186

Moon 18618-05-18 07:26 G 8521281.73 8521281.81 8521281.88 0.2644 0.2170

Earth 18618-05-18 08:09 G 8521281.77 8521281.84 8521281.92 0.2648 0.2126 *

Jupiter 18618-05-18 18:57 G 8521282.14 8521282.29 8521282.44 0.0533 0.0079

Mars 18618-09-20 06:28 G 8521406.63 8521406.77 8521406.91 0.1595 0.0406

Moon 18620-11-15 09:50 G 8522193.86 8522193.91 8522193.97 0.2684 0.2359

Earth 18620-11-15 10:48 G 8522193.89 8522193.95 8522194.02 0.2683 0.2285 *

Jupiter 18623-10-06 06:28 G 8523248.70 8523248.77 8523248.85 0.0497 0.0421

Jupiter 18624-01-03 18:00 G 8523338.11 8523338.25 8523338.40 0.0494 0.0146

Saturn 18624-12-18 20:52 G 8523688.33 8523688.37 8523688.44 0.0277 0.0256

Saturn 18625-03-17 11:16 G 8523776.85 8523776.97 8523777.10 0.0277 0.0155

Saturn 18625-06-14 01:55 G 8523865.43 8523865.58 8523865.73 0.0277 0.0051

Saturn 18625-09-10 16:33 G 8523954.05 8523954.19 8523954.35 0.0278 0.0056

Saturn 18625-12-08 07:55 G 8524042.71 8524042.83 8524042.95 0.0278 0.0165

Saturn 18626-03-06 23:31 G 8524131.47 8524131.48 8524131.49 0.0278 0.0277

Mars 18628-02-10 13:55 G 8524836.98 8524837.08 8524837.18 0.1597 0.1082

Venus 18629-06-18 13:26 G 8525331.01 8525331.06 8525331.12 0.3690 0.3188

Jupiter 18630-03-06 18:57 G 8525592.14 8525592.29 8525592.44 0.0533 0.0116

Moon 18631-05-21 05:31 G 8526032.60 8526032.73 8526032.86 0.2648 0.0393

Earth 18631-05-21 06:28 G 8526032.64 8526032.77 8526032.90 0.2649 0.0239 *

Moon 18633-11-18 07:40 G 8526944.70 8526944.82 8526944.95 0.2687 0.0581

Earth 18633-11-18 08:38 G 8526944.73 8526944.86 8526944.98 0.2683 0.0467 *

Mars 18634-10-08 09:50 G 8527268.82 8527268.91 8527269.00 0.1947 0.1360

Venus 18635-01-02 09:07 G 8527354.78 8527354.88 8527354.99 0.3690 0.1564

Jupiter 18635-10-22 21:07 G 8527648.23 8527648.38 8527648.52 0.0495 0.0017

Venus 18636-07-15 04:48 G 8527914.66 8527914.70 8527914.75 0.3681 0.3390

Mars 18639-06-08 16:33 G 8528973.08 8528973.19 8528973.30 0.1591 0.1083

Saturn 18639-07-28 01:40 G 8529022.45 8529022.57 8529022.71 0.0282 0.0167

Saturn 18639-10-24 18:28 G 8529111.11 8529111.27 8529111.42 0.0281 0.0050

Saturn 18640-01-21 10:33 G 8529199.79 8529199.94 8529200.09 0.0281 0.0065

Saturn 18640-04-19 02:09 G 8529288.48 8529288.59 8529288.71 0.0281 0.0175

Venus 18640-07-18 04:33 G 8529378.57 8529378.69 8529378.80 0.3691 0.0078

Jupiter 18641-12-23 19:26 G 8529902.18 8529902.31 8529902.44 0.0532 0.0298

Venus 18642-01-29 02:38 G 8529938.50 8529938.61 8529938.72 0.3680 0.1593

Jupiter 18642-03-23 16:04 G 8529992.09 8529992.17 8529992.25 0.0536 0.0448

Mars 18644-02-28 13:55 G 8530698.95 8530699.08 8530699.21 0.1944 0.0158

Moon 18644-05-23 03:50 G 8530783.56 8530783.66 8530783.77 0.2654 0.1492

Earth	18644-05-23 04:33 G	8530783.59	8530783.69	8530783.79	0.2649	0.1593	*
Venus	18646-01-31 23:31 G	8531402.38	8531402.48	8531402.59	0.3691	0.1495	
Moon	18646-11-21 06:28 G	8531695.66	8531695.77	8531695.88	0.2689	0.1403	
Earth	18646-11-21 06:28 G	8531695.66	8531695.77	8531695.88	0.2683	0.1419	*
Jupiter	18647-08-10 23:45 G	8531958.35	8531958.49	8531958.63	0.0495	0.0132	
Venus	18647-08-15 00:43 G	8531962.41	8531962.53	8531962.66	0.3680	0.0311	
Jupiter	18647-11-08 11:45 G	8532047.93	8532047.99	8532048.06	0.0493	0.0442	
Mars	18648-10-28 23:31 G	8532403.34	8532403.48	8532403.62	0.1592	0.0385	
Uranus	18650-05-31 07:55 G	8532982.78	8532982.83	8532982.89	0.0133	0.0124	
Uranus	18650-08-27 12:14 G	8533070.93	8533071.01	8533071.12	0.0133	0.0105	
Uranus	18650-11-23 16:48 G	8533159.09	8533159.20	8533159.33	0.0133	0.0086	
Uranus	18651-02-19 21:07 G	8533247.26	8533247.38	8533247.52	0.0133	0.0068	
Uranus	18651-05-19 01:40 G	8533335.43	8533335.57	8533335.72	0.0133	0.0048	
Uranus	18651-08-15 06:00 G	8533423.60	8533423.75	8533423.90	0.0133	0.0030	
Venus	18651-08-17 18:14 G	8533426.20	8533426.26	8533426.33	0.3692	0.2941	
Uranus	18651-11-11 10:19 G	8533511.78	8533511.93	8533512.08	0.0133	0.0011	
Uranus	18652-02-07 14:38 G	8533599.96	8533600.11	8533600.26	0.0133	0.0007	
Uranus	18652-05-05 18:43 G	8533688.14	8533688.28	8533688.44	0.0133	0.0026	
Uranus	18652-08-01 22:48 G	8533776.32	8533776.45	8533776.60	0.0133	0.0045	
Uranus	18652-10-29 03:07 G	8533864.50	8533864.63	8533864.77	0.0133	0.0062	
Uranus	18653-01-25 07:12 G	8533952.69	8533952.80	8533952.93	0.0133	0.0080	
Venus	18653-02-27 23:31 G	8533986.38	8533986.48	8533986.58	0.3679	0.2298	
Uranus	18653-04-23 11:31 G	8534040.88	8534040.98	8534041.08	0.0133	0.0098	
Uranus	18653-07-20 15:21 G	8534129.08	8534129.14	8534129.22	0.0133	0.0116	
Mars	18653-07-20 18:14 G	8534129.15	8534129.26	8534129.37	0.1941	0.1041	*
Jupiter	18653-10-11 19:55 G	8534212.27	8534212.33	8534212.40	0.0532	0.0480	
Uranus	18653-10-16 19:26 G	8534217.31	8534217.31	8534217.32	0.0133	0.0133	
Jupiter	18654-01-09 17:16 G	8534302.09	8534302.22	8534302.35	0.0535	0.0274	
Saturn	18654-08-04 11:16 G	8534508.86	8534508.97	8534509.07	0.0277	0.0195	
Saturn	18654-11-01 01:40 G	8534597.42	8534597.57	8534597.71	0.0277	0.0093	

Saturn 18655-01-28 16:19 G 8534686.03 8534686.18 8534686.33 0.0278 0.0013

Saturn 18655-04-27 07:12 G 8534774.67 8534774.80 8534774.94 0.0278 0.0121

Saturn 18655-07-24 22:48 G 8534863.36 8534863.45 8534863.53 0.0278 0.0232

Mars 18658-03-21 06:43 G 8535833.64 8535833.78 8535833.92 0.1595 0.0308

Jupiter 18659-05-30 02:38 G 8536268.49 8536268.61 8536268.73 0.0496 0.0271

Jupiter 18659-08-27 14:24 G 8536357.98 8536358.10 8536358.22 0.0493 0.0299

Moon 18664-05-18 12:43 G 8538083.94 8538084.03 8538084.12 0.2645 0.1928

Earth 18664-05-18 13:40 G 8538083.97 8538084.07 8538084.17 0.2648 0.1727 *

Jupiter 18665-10-28 17:45 G 8538612.09 8538612.24 8538612.39 0.0534 0.0090

Moon 18666-11-16 15:21 G 8538996.06 8538996.14 8538996.21 0.2685 0.2113

Earth 18666-11-16 16:19 G 8538996.09 8538996.18 8538996.26 0.2683 0.1909 *

Mars 18667-08-11 14:09 G 8539263.98 8539264.09 8539264.20 0.1597 0.0985

Saturn 18668-12-14 02:09 G 8539754.48 8539754.59 8539754.70 0.0282 0.0205

Saturn 18669-03-12 18:43 G 8539843.14 8539843.28 8539843.43 0.0282 0.0087

Saturn 18669-06-09 11:02 G 8539931.81 8539931.96 8539932.12 0.0282 0.0030

Neptune 18669-09-03 21:21 G 8540018.37 8540018.39 8540018.43 0.0089 0.0087

Saturn 18669-09-06 03:07 G 8540020.49 8540020.63 8540020.76 0.0282 0.0141

Neptune 18669-11-30 23:31 G 8540106.43 8540106.48 8540106.57 0.0089 0.0079

Saturn 18669-12-03 18:28 G 8540109.21 8540109.27 8540109.34 0.0281 0.0250

Neptune 18670-02-27 02:09 G 8540194.50 8540194.59 8540194.70 0.0089 0.0070

Neptune 18670-05-26 04:19 G 8540282.58 8540282.68 8540282.81 0.0089 0.0062

Neptune 18670-08-22 06:57 G 8540370.66 8540370.79 8540370.92 0.0089 0.0054

Neptune 18670-11-18 09:07 G 8540458.75 8540458.88 8540459.03 0.0089 0.0045

Neptune 18671-02-14 11:16 G 8540546.84 8540546.97 8540547.13 0.0089 0.0038

Jupiter 18671-03-18 05:02 G 8540578.63 8540578.71 8540578.78 0.0497 0.0419

Neptune 18671-05-13 13:55 G 8540634.93 8540635.08 8540635.23 0.0089 0.0028

Jupiter 18671-06-15 16:19 G 8540668.04 8540668.18 8540668.33 0.0494 0.0149

Neptune 18671-08-09 16:04 G 8540723.02 8540723.17 8540723.33 0.0089 0.0020

Neptune 18671-11-05 18:28 G 8540811.11 8540811.27 8540811.43 0.0089 0.0012

Neptune 18672-02-01 20:38 G 8540899.20 8540899.36 8540899.52 0.0089 0.0004

Neptune 18672-04-29 23:02 G 8540987.30 8540987.46 8540987.62 0.0089 0.0005

Neptune 18672-07-27 01:12 G 8541075.39 8541075.55 8541075.71 0.0089 0.0013

Neptune 18672-10-23 03:21 G 8541163.49 8541163.64 8541163.80 0.0089 0.0021

Neptune 18673-01-19 05:31 G 8541251.59 8541251.73 8541251.89 0.0089 0.0029

Neptune 18673-04-17 07:40 G 8541339.68 8541339.82 8541339.97 0.0089 0.0037

Neptune 18673-07-14 09:50 G 8541427.78 8541427.91 8541428.06 0.0089 0.0045

Neptune 18673-10-10 12:00 G 8541515.89 8541516.00 8541516.14 0.0089 0.0053

Neptune 18674-01-06 14:09 G 8541603.99 8541604.09 8541604.22 0.0089 0.0061

Neptune 18674-04-04 16:19 G 8541692.10 8541692.18 8541692.29 0.0089 0.0069

Mars 18674-04-08 09:36 G 8541695.82 8541695.90 8541695.99 0.1948 0.1461

Neptune 18674-07-01 18:28 G 8541780.21 8541780.27 8541780.36 0.0089 0.0077

Neptune 18674-09-27 20:52 G 8541868.33 8541868.37 8541868.42 0.0089 0.0085

Moon 18677-05-21 11:02 G 8542834.83 8542834.96 8542835.09 0.2649 0.0097

Earth 18677-05-21 12:00 G 8542834.87 8542835.00 8542835.13 0.2649 0.0155 *

Jupiter 18677-08-16 18:00 G 8542922.10 8542922.25 8542922.40 0.0533 0.0101

Mars 18678-12-07 16:48 G 8543400.11 8543400.20 8543400.30 0.1591 0.1186

Moon 18679-11-19 13:12 G 8543746.92 8543747.05 8543747.18 0.2687 0.0151

Earth 18679-11-19 13:55 G 8543746.95 8543747.08 8543747.21 0.2683 0.0082 *

Jupiter 18683-04-03 19:12 G 8544978.15 8544978.30 8544978.44 0.0495 0.0014

Mars 18683-08-29 14:24 G 8545125.97 8545126.10 8545126.22 0.1945 0.0297

Saturn 18683-12-22 14:24 G 8545241.01 8545241.10 8545241.20 0.0277 0.0213

Saturn 18684-03-20 04:48 G 8545329.56 8545329.70 8545329.84 0.0277 0.0112

Saturn 18684-06-16 19:26 G 8545418.16 8545418.31 8545418.46 0.0277 0.0007

Saturn 18684-09-13 10:19 G 8545506.79 8545506.93 8545507.08 0.0278 0.0101

Saturn 18684-12-11 01:40 G 8545595.47 8545595.57 8545595.67 0.0278 0.0211

Venus 18686-01-23 12:00 G 8546003.92 8546004.00 8546004.08 0.3690 0.2676

Mars 18688-04-29 00:00 G 8546830.36 8546830.50 8546830.63 0.1592 0.0491

Jupiter 18689-06-04 17:31 G 8547232.10 8547232.23 8547232.36 0.0532 0.0299

Jupiter 18689-09-02 14:09 G 8547322.01 8547322.09 8547322.17 0.0535 0.0446

Moon 18690-05-24 09:07 G 8547585.80 8547585.88 8547585.97 0.2654 0.1884

Earth 18690-05-24 09:50 G 8547585.83 8547585.91 8547586.00 0.2649 0.1966 *

Venus 18691-08-09 07:40 G 8548027.71 8548027.82 8548027.93 0.3690 0.1064

Uranus 18692-03-02 12:43 G 8548233.97 8548234.03 8548234.12 0.0145 0.0126

Uranus 18692-05-29 18:14 G 8548322.16 8548322.26 8548322.38 0.0145 0.0102

Uranus 18692-08-25 23:45 G 8548410.36 8548410.49 8548410.63 0.0145 0.0078

Moon 18692-11-21 12:00 G 8548497.90 8548498.00 8548498.09 0.2690 0.1828

Earth 18692-11-21 11:45 G 8548497.90 8548497.99 8548498.09 0.2682 0.1805 *

Uranus 18692-11-22 05:16 G 8548498.58 8548498.72 8548498.87 0.0145 0.0054

Mars 18693-01-18 18:28 G 8548556.16 8548556.27 8548556.38 0.1941 0.0922

Uranus 18693-02-18 11:02 G 8548586.80 8548586.96 8548587.12 0.0145 0.0029

Venus 18693-02-19 03:50 G 8548587.59 8548587.66 8548587.74 0.3681 0.2841

Uranus 18693-05-17 16:33 G 8548675.03 8548675.19 8548675.35 0.0145 0.0006

Uranus 18693-08-13 22:19 G 8548763.27 8548763.43 8548763.59 0.0145 0.0020

Uranus 18693-11-10 04:04 G 8548851.52 8548851.67 8548851.82 0.0145 0.0045

Uranus 18694-02-06 09:36 G 8548939.77 8548939.90 8548940.05 0.0145 0.0071

Uranus 18694-05-05 15:36 G 8549028.03 8549028.15 8549028.27 0.0145 0.0096

Uranus 18694-08-01 21:21 G 8549116.31 8549116.39 8549116.49 0.0145 0.0122

Jupiter 18695-01-20 22:04 G 8549288.28 8549288.42 8549288.56 0.0496 0.0129

Jupiter 18695-04-20 10:19 G 8549377.87 8549377.93 8549377.99 0.0493 0.0446

Venus 18697-02-22 02:52 G 8550051.50 8550051.62 8550051.74 0.3691 0.0470

Mars 18697-09-19 07:12 G 8550260.65 8550260.80 8550260.94 0.1594 0.0203

Saturn 18698-05-03 02:52 G 8550486.54 8550486.62 8550486.71 0.0282 0.0238

Saturn 18698-07-30 19:55 G 8550575.19 8550575.33 8550575.47 0.0282 0.0119

Venus 18698-09-05 01:40 G 8550611.45 8550611.57 8550611.70 0.3680 0.1027

Saturn 18698-10-27 12:14 G 8550663.86 8550664.01 8550664.17 0.0281 0.0005

Saturn 18699-01-24 04:19 G 8550752.54 8550752.68 8550752.82 0.0281 0.0110

Saturn 18699-04-22 19:40 G 8550841.23 8550841.32 8550841.42 0.0281 0.0220

Jupiter 18701-03-24 17:45 G 8551542.18 8551542.24 8551542.30 0.0531 0.0485

Jupiter 18701-06-22 14:52 G 8551632.00 8551632.12 8551632.26 0.0535 0.0269

Venus 18702-09-08 21:50 G 8552075.32 8552075.41 8552075.51 0.3692 0.1963

Venus 18704-03-22 00:14 G 8552635.38 8552635.51 8552635.63 0.3680 0.0915

Jupiter 18706-11-10 00:57 G 8553598.42 8553598.54 8553598.66 0.0496 0.0268

Jupiter 18707-02-07 12:43 G 8553687.91 8553688.03 8553688.15 0.0493 0.0302

Mars 18707-02-10 14:24 G 8553690.98 8553691.10 8553691.22 0.1597 0.0888

Venus 18708-03-24 16:33 G 8554099.15 8554099.19 8554099.23 0.3692 0.3378

Venus 18709-10-05 22:48 G 8554659.38 8554659.45 8554659.53 0.3679 0.2933

Moon 18710-05-20 18:14 G 8554886.15 8554886.26 8554886.37 0.2645 0.1382

Earth 18710-05-20 19:12 G 8554886.19 8554886.30 8554886.41 0.2648 0.1338 *

Moon 18712-11-17 20:38 G 8555798.26 8555798.36 8555798.46 0.2685 0.1592

Earth 18712-11-17 21:36 G 8555798.30 8555798.40 8555798.50 0.2683 0.1537 *

Jupiter 18713-04-10 16:04 G 8555942.02 8555942.17 8555942.32 0.0534 0.0092

Saturn 18713-05-11 14:52 G 8555973.06 8555973.12 8555973.18 0.0277 0.0251

Saturn 18713-08-08 04:48 G 8556061.58 8556061.70 8556061.83 0.0277 0.0151

Mars 18713-10-08 10:04 G 8556122.85 8556122.92 8556122.99 0.1948 0.1601

Saturn 18713-11-04 19:26 G 8556150.16 8556150.31 8556150.46 0.0277 0.0047

Saturn 18714-02-01 10:04 G 8556238.78 8556238.92 8556239.07 0.0278 0.0060

Saturn 18714-05-01 01:26 G 8556327.43 8556327.56 8556327.68 0.0278 0.0168

Mars 18716-07-02 21:50 G 8557121.39 8557121.41 8557121.44 0.1599 0.1559

Mars 18718-06-08 17:02 G 8557827.13 8557827.21 8557827.30 0.1590 0.1290

Jupiter 18718-08-29 03:50 G 8557908.58 8557908.66 8557908.75 0.0497 0.0407

Jupiter 18718-11-26 15:21 G 8557998.00 8557998.14 8557998.28 0.0494 0.0160

Mars 18723-02-28 14:24 G 8559552.98 8559553.10 8559553.23 0.1945 0.0407

Moon 18723-05-23 16:33 G 8559637.06 8559637.19 8559637.31 0.2651 0.0358

Earth 18723-05-23 17:16 G 8559637.10 8559637.22 8559637.35 0.2649 0.0540 *

Jupiter 18725-01-27 16:33 G 8560252.04 8560252.19 8560252.34 0.0533 0.0091

Moon 18725-11-20 18:43 G 8560549.16 8560549.28 8560549.41 0.2689 0.0199

Earth 18725-11-20 19:12 G 8560549.18 8560549.30 8560549.43 0.2683 0.0308 *

Saturn 18727-09-21 02:52 G 8561218.60 8561218.62 8561218.65 0.0283 0.0279

Mars 18727-10-30 00:14 G 8561257.37 8561257.51 8561257.64 0.1592 0.0590

Saturn 18727-12-18 19:55 G 8561307.21 8561307.33 8561307.47 0.0282 0.0159

Saturn 18728-03-16 12:43 G 8561395.87 8561396.03 8561396.18 0.0282 0.0041

Saturn 18728-06-13 04:48 G 8561484.55 8561484.70 8561484.85 0.0282 0.0074

Saturn 18728-09-09 20:24 G 8561573.25 8561573.35 8561573.47 0.0282 0.0186

Jupiter 18730-09-14 17:16 G 8562308.08 8562308.22 8562308.37 0.0495 0.0017

Mars 18732-07-20 18:43 G 8562983.16 8562983.28 8562983.39 0.1942 0.0805

Uranus 18734-06-21 15:07 G 8563684.07 8563684.13 8563684.21 0.0133 0.0119

Uranus 18734-09-17 19:40 G 8563772.22 8563772.32 8563772.43 0.0133 0.0099

Uranus 18734-12-15 00:14 G 8563860.38 8563860.51 8563860.63 0.0133 0.0080

Uranus 18735-03-13 04:33 G 8563948.55 8563948.69 8563948.83 0.0133 0.0062

Uranus 18735-06-09 08:52 G 8564036.73 8564036.87 8564037.02 0.0133 0.0043

Uranus 18735-09-05 13:12 G 8564124.90 8564125.05 8564125.21 0.0133 0.0024

Uranus 18735-12-02 17:31 G 8564213.08 8564213.23 8564213.39 0.0133 0.0006

Uranus 18736-02-28 21:50 G 8564301.26 8564301.41 8564301.56 0.0133 0.0013

Moon 18736-05-25 14:38 G 8564388.05 8564388.11 8564388.18 0.2655 0.2293

Earth 18736-05-25 15:21 G 8564388.08 8564388.14 8564388.20 0.2649 0.2343 *

Uranus 18736-05-27 02:09 G 8564389.44 8564389.59 8564389.74 0.0133 0.0031

Uranus 18736-08-23 06:14 G 8564477.62 8564477.76 8564477.91 0.0133 0.0049

Jupiter 18736-11-15 16:33 G 8564562.06 8564562.19 8564562.32 0.0532 0.0283

Uranus 18736-11-19 10:19 G 8564565.81 8564565.93 8564566.07 0.0133 0.0068

Jupiter 18737-02-13 13:12 G 8564651.97 8564652.05 8564652.12 0.0535 0.0460

Uranus 18737-02-15 14:24 G 8564653.99 8564654.10 8564654.23 0.0133 0.0086

Mars 18737-03-21 07:26 G 8564687.66 8564687.81 8564687.95 0.1595 0.0111

Uranus 18737-05-14 18:28 G 8564742.19 8564742.27 8564742.38 0.0133 0.0104

Uranus 18737-08-10 22:33 G 8564830.39 8564830.44 8564830.51 0.0133 0.0121

Earth 18738-11-23 17:16 G 8565300.15 8565300.22 8565300.29 0.2682 0.2198

Moon 18738-11-23 17:16 G 8565300.16 8565300.22 8565300.29 0.2689 0.2243 *

Jupiter 18742-07-03 20:09 G 8566618.20 8566618.34 8566618.48 0.0496 0.0133

Venus 18742-08-31 10:33 G 8566676.85 8566676.94 8566677.04 0.3690 0.2166

Saturn 18742-09-28 18:00 G 8566705.22 8566705.25 8566705.29 0.0276 0.0269

Jupiter 18742-10-01 08:09 G 8566707.78 8566707.84 8566707.91 0.0493 0.0444

Saturn	18742-12-26 08:09 G	8566793.73	8566793.84	8566793.96	0.0277	0.0168
Saturn	18743-03-24 22:33 G	8566882.30	8566882.44	8566882.59	0.0277	0.0066
Saturn	18743-06-21 13:26 G	8566970.91	8566971.06	8566971.21	0.0277	0.0041
Saturn	18743-09-18 04:33 G	8567059.56	8567059.69	8567059.82	0.0278	0.0149
Saturn	18743-12-15 19:55 G	8567148.28	8567148.33	8567148.38	0.0278	0.0260
Mars	18746-08-11 14:38 G	8568117.99	8568118.11	8568118.24	0.1597	0.0785
Pluto	18747-10-09 22:33 G	8568542.42	8568542.44	8568542.47	0.0070	0.0069
Pluto	18748-01-05 23:02 G	8568630.40	8568630.46	8568630.54	0.0070	0.0060
Venus	18748-03-16 06:00 G	8568700.64	8568700.75	8568700.87	0.3691	0.0591
Pluto	18748-04-02 23:45 G	8568718.41	8568718.49	8568718.59	0.0071	0.0051
Pluto	18748-06-30 00:14 G	8568806.42	8568806.51	8568806.63	0.0071	0.0042
Jupiter	18748-09-03 15:50 G	8568872.10	8568872.16	8568872.22	0.0531	0.0487
Pluto	18748-09-26 01:12 G	8568894.43	8568894.55	8568894.67	0.0071	0.0032
Jupiter	18748-12-02 12:57 G	8568961.91	8568962.04	8568962.17	0.0534	0.0265
Pluto	18748-12-23 01:40 G	8568982.45	8568982.57	8568982.70	0.0071	0.0023
Pluto	18749-03-21 02:24 G	8569070.47	8569070.60	8569070.73	0.0071	0.0013
Pluto	18749-06-17 03:07 G	8569158.50	8569158.63	8569158.76	0.0071	0.0004
Pluto	18749-09-13 03:50 G	8569246.53	8569246.66	8569246.79	0.0071	0.0006
Venus	18749-09-27 02:52 G	8569260.53	8569260.62	8569260.72	0.3680	0.2290
Pluto	18749-12-10 04:19 G	8569334.56	8569334.68	8569334.81	0.0071	0.0016
Pluto	18750-03-08 05:02 G	8569422.59	8569422.71	8569422.84	0.0071	0.0026
Pluto	18750-06-04 05:31 G	8569510.63	8569510.73	8569510.85	0.0072	0.0036
Pluto	18750-08-31 06:28 G	8569598.67	8569598.77	8569598.87	0.0072	0.0045
Pluto	18750-11-27 06:57 G	8569686.71	8569686.79	8569686.88	0.0072	0.0055
Pluto	18751-02-23 07:40 G	8569774.77	8569774.82	8569774.88	0.0072	0.0065
Neptune	18751-03-05 00:43 G	8569784.49	8569784.53	8569784.58	0.0088	0.0083
Neptune	18751-06-01 02:24 G	8569872.54	8569872.60	8569872.69	0.0088	0.0076
Neptune	18751-08-28 04:19 G	8569960.60	8569960.68	8569960.79	0.0088	0.0069
Neptune	18751-11-24 06:28 G	8570048.67	8570048.77	8570048.88	0.0088	0.0061
Neptune	18752-02-20 08:09 G	8570136.74	8570136.84	8570136.98	0.0088	0.0054

Neptune 18752-05-18 10:19 G 8570224.81 8570224.93 8570225.07 0.0088 0.0046

Neptune 18752-08-14 12:14 G 8570312.88 8570313.01 8570313.16 0.0088 0.0039

Neptune 18752-11-10 14:24 G 8570400.96 8570401.10 8570401.25 0.0088 0.0031

Neptune 18753-02-06 16:19 G 8570489.04 8570489.18 8570489.33 0.0088 0.0024

Mars 18753-04-08 10:19 G 8570549.87 8570549.93 8570549.99 0.1948 0.1723

Neptune 18753-05-05 18:28 G 8570577.12 8570577.27 8570577.42 0.0088 0.0016

Neptune 18753-08-01 20:24 G 8570665.20 8570665.35 8570665.51 0.0088 0.0008

Venus 18753-09-30 01:12 G 8570724.44 8570724.55 8570724.67 0.3691 0.0955

Neptune 18753-10-28 22:19 G 8570753.28 8570753.43 8570753.59 0.0088 0.0003

Neptune 18754-01-25 00:28 G 8570841.36 8570841.52 8570841.67 0.0088 0.0007

Jupiter 18754-04-21 23:16 G 8570928.35 8570928.47 8570928.59 0.0496 0.0268

Neptune 18754-04-23 02:24 G 8570929.45 8570929.60 8570929.76 0.0088 0.0015

Neptune 18754-07-20 04:33 G 8571017.54 8571017.69 8571017.84 0.0088 0.0022

Jupiter 18754-07-20 11:02 G 8571017.84 8571017.96 8571018.08 0.0494 0.0304 *

Neptune 18754-10-16 06:28 G 8571105.63 8571105.77 8571105.92 0.0088 0.0030

Neptune 18755-01-12 08:24 G 8571193.72 8571193.85 8571194.00 0.0088 0.0038

Neptune 18755-04-10 10:33 G 8571281.81 8571281.94 8571282.08 0.0088 0.0046

Venus 18755-04-13 00:57 G 8571284.42 8571284.54 8571284.67 0.3680 0.0437

Neptune 18755-07-07 12:28 G 8571369.91 8571370.02 8571370.16 0.0088 0.0054

Neptune 18755-10-03 14:52 G 8571458.01 8571458.12 8571458.23 0.0088 0.0061

Neptune 18755-12-30 16:48 G 8571546.11 8571546.20 8571546.30 0.0088 0.0069

Mars 18756-01-01 22:04 G 8571548.37 8571548.42 8571548.48 0.1599 0.1459

Neptune 18756-03-27 18:57 G 8571634.22 8571634.29 8571634.37 0.0088 0.0077

Moon 18756-05-20 23:45 G 8571688.37 8571688.49 8571688.61 0.2646 0.1143

Earth 18756-05-21 00:43 G 8571688.41 8571688.53 8571688.65 0.2649 0.0939 *

Neptune 18756-06-23 20:52 G 8571722.35 8571722.37 8571722.42 0.0088 0.0085

Saturn 18757-05-06 21:36 G 8572039.29 8572039.40 8572039.52 0.0282 0.0187

Saturn 18757-08-03 14:24 G 8572127.95 8572128.10 8572128.25 0.0282 0.0068

Saturn 18757-10-31 06:43 G 8572216.62 8572216.78 8572216.93 0.0281 0.0047

Mars 18757-12-07 17:31 G 8572254.16 8572254.23 8572254.30 0.1590 0.1399

Saturn 18758-01-27 22:33 G 8572305.31 8572305.44 8572305.56 0.0281 0.0158

Saturn 18758-04-26 13:40 G 8572394.04 8572394.07 8572394.13 0.0281 0.0267

Moon 18758-11-19 01:55 G 8572600.48 8572600.58 8572600.69 0.2685 0.1371

Earth 18758-11-19 02:52 G 8572600.51 8572600.62 8572600.74 0.2683 0.1162 *

Venus 18759-04-15 20:09 G 8572748.25 8572748.34 8572748.43 0.3692 0.2414

Jupiter 18760-09-20 13:40 G 8573271.92 8573272.07 8573272.22 0.0534 0.0084

Venus 18760-10-26 23:31 G 8573308.36 8573308.48 8573308.60 0.3679 0.1525

Mars 18762-08-29 14:38 G 8573979.99 8573980.11 8573980.23 0.1945 0.0535

Jupiter 18766-02-08 02:09 G 8575238.51 8575238.59 8575238.67 0.0497 0.0405

Jupiter 18766-05-08 13:40 G 8575327.93 8575328.07 8575328.21 0.0494 0.0162

Venus 18766-05-12 22:19 G 8575332.41 8575332.43 8575332.46 0.3679 0.3585

Mars 18767-04-30 00:28 G 8575684.39 8575684.52 8575684.65 0.1592 0.0694

Moon 18769-05-23 21:50 G 8576439.29 8576439.41 8576439.53 0.2652 0.0877

Earth 18769-05-23 22:48 G 8576439.33 8576439.45 8576439.57 0.2649 0.0918 *

Moon 18771-11-22 00:14 G 8577351.39 8577351.51 8577351.64 0.2689 0.0722

Earth 18771-11-22 00:43 G 8577351.40 8577351.53 8577351.65 0.2683 0.0687 *

Mars 18772-01-19 18:57 G 8577410.17 8577410.29 8577410.41 0.1941 0.0670

Saturn 18772-05-14 08:38 G 8577525.77 8577525.86 8577525.96 0.0277 0.0205

Jupiter 18772-07-09 14:24 G 8577581.95 8577582.10 8577582.25 0.0533 0.0096

Saturn 18772-08-10 23:02 G 8577614.32 8577614.46 8577614.60 0.0277 0.0103

Saturn 18772-11-07 13:40 G 8577702.91 8577703.07 8577703.22 0.0277 0.0006

Saturn 18773-02-04 04:33 G 8577791.55 8577791.69 8577791.83 0.0278 0.0109

Saturn 18773-05-03 19:55 G 8577880.23 8577880.33 8577880.42 0.0278 0.0219

Uranus 18775-12-26 14:24 G 8578847.10 8578847.10 8578847.13 0.0145 0.0145

Uranus 18776-03-23 19:55 G 8578935.25 8578935.33 8578935.43 0.0145 0.0121

Uranus 18776-06-20 01:26 G 8579023.45 8579023.56 8579023.68 0.0145 0.0097

Uranus 18776-09-16 06:57 G 8579111.66 8579111.79 8579111.93 0.0145 0.0072

Mars 18776-09-19 07:40 G 8579114.67 8579114.82 8579114.96 0.1594 0.0029

Uranus 18776-12-13 12:28 G 8579199.88 8579200.02 8579200.17 0.0145 0.0048

Uranus 18777-03-11 18:14 G 8579288.10 8579288.26 8579288.41 0.0145 0.0024

Uranus 18777-06-07 23:45 G 8579376.33 8579376.49 8579376.65 0.0145 0.0003

Uranus 18777-09-04 05:31 G 8579464.57 8579464.73 8579464.89 0.0145 0.0026

Uranus 18777-12-01 11:16 G 8579552.82 8579552.97 8579553.12 0.0145 0.0051

Jupiter 18778-02-24 16:19 G 8579638.03 8579638.18 8579638.32 0.0495 0.0022

Uranus 18778-02-27 17:02 G 8579641.07 8579641.21 8579641.35 0.0145 0.0076

Uranus 18778-05-26 22:33 G 8579729.34 8579729.44 8579729.57 0.0145 0.0102

Uranus 18778-08-23 04:19 G 8579817.62 8579817.68 8579817.77 0.0145 0.0128

Mars 18781-06-10 22:48 G 8580840.43 8580840.45 8580840.46 0.1938 0.1916

Moon 18782-05-26 20:24 G 8581190.33 8581190.35 8581190.36 0.2655 0.2631

Jupiter 18784-04-27 14:52 G 8581891.99 8581892.12 8581892.25 0.0532 0.0278

Jupiter 18784-07-26 11:31 G 8581981.91 8581981.98 8581982.05 0.0535 0.0466

Earth 18784-11-23 22:33 G 8582102.41 8582102.44 8582102.47 0.2682 0.2593

Moon 18784-11-23 23:02 G 8582102.43 8582102.46 8582102.48 0.2689 0.2606 *

Mars 18786-02-09 14:52 G 8582544.99 8582545.12 8582545.25 0.1597 0.0688

Saturn 18786-09-23 21:36 G 8582771.31 8582771.40 8582771.49 0.0282 0.0228

Saturn 18786-12-21 14:24 G 8582859.96 8582860.10 8582860.25 0.0282 0.0108

Saturn 18787-03-20 06:57 G 8582948.63 8582948.79 8582948.94 0.0282 0.0010

Saturn 18787-06-16 22:48 G 8583037.32 8583037.45 8583037.59 0.0282 0.0122

Saturn 18787-09-13 14:24 G 8583126.02 8583126.10 8583126.19 0.0281 0.0231

Moon 18789-05-19 06:57 G 8583739.76 8583739.79 8583739.81 0.2643 0.2579

Earth 18789-05-19 07:40 G 8583739.77 8583739.82 8583739.87 0.2648 0.2455 *

Jupiter 18789-12-13 18:14 G 8583948.12 8583948.26 8583948.40 0.0496 0.0132

Jupiter 18790-03-13 06:28 G 8584037.70 8584037.77 8584037.83 0.0493 0.0444

Earth 18791-11-17 10:48 G 8584651.92 8584651.95 8584651.98 0.2683 0.2590

Mars 18792-10-07 10:19 G 8584976.89 8584976.93 8584976.97 0.1948 0.1834

Venus 18793-09-21 13:26 G 8585326.01 8585326.06 8585326.11 0.3690 0.3299

Mars 18795-07-02 22:19 G 8585975.36 8585975.43 8585975.51 0.1599 0.1362

Jupiter 18796-02-14 14:38 G 8586202.05 8586202.11 8586202.18 0.0531 0.0472

Jupiter 18796-05-14 12:00 G 8586291.87 8586292.00 8586292.13 0.0534 0.0280

Mars 18797-06-07 17:45 G 8586681.19 8586681.24 8586681.28 0.1590 0.1501

Venus	18799-04-07 09:07 G	8587349.78	8587349.88	8587349.99	0.3690	0.1665
Venus	18800-10-18 04:33 G	8587909.65	8587909.69	8587909.72	0.3681	0.3507
Saturn	18801-10-01 12:00 G	8588257.92	8588258.00	8588258.09	0.0277	0.0222
Jupiter	18801-10-01 21:07 G	8588258.26	8588258.38	8588258.50	0.0497	0.0273
Saturn	18801-12-29 02:09 G	8588346.46	8588346.59	8588346.73	0.0277	0.0121
Jupiter	18801-12-30 08:52 G	8588347.75	8588347.87	8588347.99	0.0494	0.0299
Mars	18802-02-27 14:52 G	8588407.00	8588407.12	8588407.24	0.1945	0.0663
Saturn	18802-03-27 16:48 G	8588435.05	8588435.20	8588435.36	0.0277	0.0017
Moon	18802-05-22 05:02 G	8588490.58	8588490.71	8588490.84	0.2648	0.0617
Earth	18802-05-22 06:00 G	8588490.63	8588490.75	8588490.88	0.2649	0.0555 *
Saturn	18802-06-24 07:40 G	8588523.68	8588523.82	8588523.97	0.0277	0.0091
Saturn	18802-09-20 23:02 G	8588612.35	8588612.46	8588612.57	0.0278	0.0200
Venus	18804-10-21 04:33 G	8589373.57	8589373.69	8589373.81	0.3691	0.0100
Moon	18804-11-19 07:26 G	8589402.69	8589402.81	8589402.93	0.2686	0.0836
Earth	18804-11-19 08:09 G	8589402.72	8589402.84	8589402.96	0.2683	0.0795 *
Venus	18806-05-04 02:09 G	8589933.48	8589933.59	8589933.70	0.3680	0.1713
Mars	18806-10-29 00:43 G	8590111.41	8590111.53	8590111.66	0.1592	0.0798
Jupiter	18808-03-02 11:31 G	8590601.83	8590601.98	8590602.13	0.0533	0.0080
Venus	18810-05-06 23:45 G	8591397.38	8591397.49	8591397.59	0.3691	0.1425
Mars	18811-07-20 19:12 G	8591837.18	8591837.30	8591837.42	0.1941	0.0542
Venus	18811-11-18 00:14 G	8591957.39	8591957.51	8591957.64	0.3680	0.0182
Jupiter	18813-07-21 00:14 G	8592568.43	8592568.51	8592568.59	0.0497	0.0407
Jupiter	18813-10-18 11:45 G	8592657.85	8592657.99	8592658.13	0.0494	0.0160
Moon	18815-05-25 03:21 G	8593241.52	8593241.64	8593241.76	0.2653	0.1105
Earth	18815-05-25 04:19 G	8593241.57	8593241.68	8593241.79	0.2649	0.1302 *
Venus	18815-11-20 18:28 G	8593421.20	8593421.27	8593421.34	0.3692	0.2871
Saturn	18816-02-10 23:45 G	8593503.42	8593503.49	8593503.56	0.0282	0.0252
Mars	18816-03-20 07:55 G	8593541.69	8593541.83	8593541.98	0.1594	0.0108
Saturn	18816-05-09 16:33 G	8593592.05	8593592.19	8593592.33	0.0282	0.0133
Saturn	18816-08-06 09:07 G	8593680.72	8593680.88	8593681.04	0.0282	0.0016

Saturn 18816-11-03 01:12 G 8593769.41 8593769.55 8593769.70 0.0281 0.0097

Saturn 18817-01-30 16:48 G 8593858.10 8593858.20 8593858.31 0.0281 0.0208

Venus 18817-06-02 22:48 G 8593981.35 8593981.45 8593981.56 0.3679 0.2161

Moon 18817-11-22 05:45 G 8594153.62 8594153.74 8594153.86 0.2690 0.0961

Earth 18817-11-22 06:00 G 8594153.63 8594153.75 8594153.87 0.2683 0.1070 *

Uranus 18818-04-14 17:45 G 8594297.24 8594297.24 8594297.26 0.0133 0.0132

Uranus 18818-07-11 22:19 G 8594385.36 8594385.43 8594385.52 0.0133 0.0113

Uranus 18818-10-08 02:52 G 8594473.51 8594473.62 8594473.73 0.0133 0.0094

Uranus 18819-01-04 07:12 G 8594561.68 8594561.80 8594561.94 0.0133 0.0075

Uranus 18819-04-02 11:45 G 8594649.85 8594649.99 8594650.13 0.0133 0.0056

Uranus 18819-06-29 16:04 G 8594738.02 8594738.17 8594738.32 0.0133 0.0038

Uranus 18819-09-25 20:24 G 8594826.20 8594826.35 8594826.51 0.0133 0.0019

Jupiter 18819-12-20 12:00 G 8594911.85 8594912.00 8594912.15 0.0533 0.0107

Uranus 18819-12-23 00:43 G 8594914.38 8594914.53 8594914.69 0.0133 0.0003

Uranus 18820-03-20 05:02 G 8595002.56 8595002.71 8595002.86 0.0133 0.0018

Uranus 18820-06-16 09:21 G 8595090.74 8595090.89 8595091.04 0.0133 0.0036

Uranus 18820-09-12 13:26 G 8595178.93 8595179.06 8595179.20 0.0133 0.0055

Uranus 18820-12-09 17:45 G 8595267.11 8595267.24 8595267.37 0.0133 0.0073

Mars 18820-12-09 23:02 G 8595267.41 8595267.46 8595267.51 0.1938 0.1783

Uranus 18821-03-07 21:50 G 8595355.30 8595355.41 8595355.52 0.0133 0.0090

Uranus 18821-06-04 01:40 G 8595443.50 8595443.57 8595443.67 0.0133 0.0109

Uranus 18821-08-31 05:45 G 8595531.71 8595531.74 8595531.80 0.0133 0.0126

Jupiter 18825-08-06 14:24 G 8596967.95 8596968.10 8596968.25 0.0495 0.0019

Mars 18825-08-10 15:07 G 8596972.00 8596972.13 8596972.27 0.1597 0.0588

Saturn 18831-02-18 12:57 G 8598989.99 8598990.04 8598990.09 0.0277 0.0256

Saturn 18831-05-18 02:52 G 8599078.50 8599078.62 8599078.75 0.0277 0.0156

Saturn 18831-08-14 17:16 G 8599167.08 8599167.22 8599167.37 0.0277 0.0054

Jupiter 18831-10-08 12:28 G 8599221.89 8599222.02 8599222.15 0.0532 0.0287

Saturn 18831-11-11 08:09 G 8599255.69 8599255.84 8599255.99 0.0277 0.0053

Jupiter 18832-01-06 09:21 G 8599311.81 8599311.89 8599311.96 0.0535 0.0460

Saturn 18832-02-07 23:16 G 8599344.35 8599344.47 8599344.59 0.0278 0.0162

Saturn 18832-05-06 14:38 G 8599433.09 8599433.11 8599433.14 0.0278 0.0273

Pluto 18833-08-24 19:55 G 8599908.24 8599908.33 8599908.45 0.0074 0.0062

Pluto 18833-11-20 22:19 G 8599996.29 8599996.43 8599996.60 0.0073 0.0046

Pluto 18834-02-17 00:57 G 8600084.37 8600084.54 8600084.72 0.0073 0.0031

Pluto 18834-05-16 03:21 G 8600172.46 8600172.64 8600172.84 0.0073 0.0015

Neptune 18834-06-01 20:24 G 8600189.31 8600189.35 8600189.41 0.0089 0.0084

Pluto 18834-08-12 06:00 G 8600260.55 8600260.75 8600260.94 0.0073 0.0001

Neptune 18834-08-28 22:33 G 8600277.37 8600277.44 8600277.54 0.0089 0.0076

Pluto 18834-11-08 08:09 G 8600348.66 8600348.84 8600349.04 0.0073 0.0016

Neptune 18834-11-25 01:12 G 8600365.45 8600365.55 8600365.66 0.0089 0.0067

Mars 18834-12-31 22:33 G 8600402.36 8600402.44 8600402.53 0.1599 0.1267

Pluto 18835-02-04 10:19 G 8600436.77 8600436.93 8600437.12 0.0073 0.0031

Neptune 18835-02-21 03:21 G 8600453.53 8600453.64 8600453.77 0.0089 0.0059

Pluto 18835-05-03 12:43 G 8600524.90 8600525.03 8600525.20 0.0073 0.0046

Neptune 18835-05-20 06:00 G 8600541.62 8600541.75 8600541.88 0.0089 0.0050

Moon 18835-05-20 12:28 G 8600541.94 8600542.02 8600542.09 0.2643 0.2129

Earth 18835-05-20 13:12 G 8600541.97 8600542.05 8600542.13 0.2648 0.2054 *

Pluto 18835-07-30 14:52 G 8600613.04 8600613.12 8600613.25 0.0073 0.0061

Neptune 18835-08-16 08:09 G 8600629.71 8600629.84 8600629.99 0.0089 0.0042

Neptune 18835-11-12 10:19 G 8600717.79 8600717.93 8600718.09 0.0089 0.0035

Neptune 18836-02-08 12:57 G 8600805.89 8600806.04 8600806.19 0.0089 0.0025

Neptune 18836-05-06 15:07 G 8600893.98 8600894.13 8600894.29 0.0089 0.0017

Neptune 18836-08-02 17:31 G 8600982.07 8600982.23 8600982.39 0.0089 0.0009

Neptune 18836-10-29 19:40 G 8601070.16 8601070.32 8601070.49 0.0089 0.0003

Neptune 18837-01-25 22:04 G 8601158.26 8601158.42 8601158.58 0.0089 0.0008

Neptune 18837-04-24 00:14 G 8601246.36 8601246.51 8601246.67 0.0089 0.0016

Jupiter 18837-05-25 17:02 G 8601278.07 8601278.21 8601278.36 0.0496 0.0124

Neptune 18837-07-21 02:24 G 8601334.45 8601334.60 8601334.76 0.0089 0.0024

Jupiter 18837-08-23 05:16 G 8601367.66 8601367.72 8601367.77 0.0493 0.0452

Neptune 18837-10-17 04:33 G 8601422.55 8601422.69 8601422.85 0.0089 0.0032

Moon 18837-11-17 15:07 G 8601454.07 8601454.13 8601454.19 0.2683 0.2332

Earth 18837-11-17 16:04 G 8601454.10 8601454.17 8601454.24 0.2683 0.2223 *

Neptune 18838-01-13 06:43 G 8601510.65 8601510.78 8601510.93 0.0089 0.0041

Neptune 18838-04-11 08:52 G 8601598.75 8601598.87 8601599.02 0.0089 0.0049

Neptune 18838-07-08 11:02 G 8601686.85 8601686.96 8601687.10 0.0089 0.0057

Neptune 18838-10-04 13:12 G 8601774.96 8601775.05 8601775.17 0.0089 0.0065

Neptune 18838-12-31 15:21 G 8601863.06 8601863.14 8601863.25 0.0089 0.0073

Neptune 18839-03-29 17:31 G 8601951.18 8601951.23 8601951.31 0.0089 0.0080

Neptune 18839-06-25 19:40 G 8602039.31 8602039.32 8602039.36 0.0089 0.0088

Mars 18841-08-28 15:07 G 8602834.01 8602834.13 8602834.25 0.1945 0.0783

Jupiter 18843-07-27 12:57 G 8603531.97 8603532.04 8603532.11 0.0531 0.0470

Jupiter 18843-10-25 10:19 G 8603621.80 8603621.93 8603622.06 0.0534 0.0283

Saturn 18845-09-26 16:33 G 8604324.06 8604324.19 8604324.31 0.0282 0.0174

Saturn 18845-12-24 09:07 G 8604412.73 8604412.88 8604413.04 0.0282 0.0056

Saturn 18846-03-23 01:26 G 8604501.41 8604501.56 8604501.71 0.0282 0.0060

Mars 18846-04-29 00:57 G 8604538.42 8604538.54 8604538.66 0.1592 0.0901

Saturn 18846-06-19 17:16 G 8604590.10 8604590.22 8604590.34 0.0281 0.0172

Saturn 18846-09-16 08:38 G 8604678.86 8604678.86 8604678.88 0.0281 0.0280

Moon 18848-05-22 10:33 G 8605292.81 8605292.94 8605293.07 0.2650 0.0337

Earth 18848-05-22 11:31 G 8605292.85 8605292.98 8605293.11 0.2649 0.0169 *

Jupiter 18849-03-13 19:12 G 8605588.18 8605588.30 8605588.42 0.0497 0.0274

Jupiter 18849-06-11 06:57 G 8605677.67 8605677.79 8605677.91 0.0494 0.0298

Venus 18850-04-28 12:00 G 8605998.93 8605999.00 8605999.08 0.3690 0.2784

Moon 18850-11-20 12:57 G 8606204.92 8606205.04 8606205.16 0.2688 0.0562

Earth 18850-11-20 13:40 G 8606204.94 8606205.07 8606205.19 0.2683 0.0422 *

Mars 18851-01-18 19:12 G 8606264.18 8606264.30 8606264.43 0.1942 0.0432

Jupiter 18855-08-13 10:33 G 8607931.79 8607931.94 8607932.09 0.0533 0.0094

Mars 18855-09-19 08:09 G 8607968.70 8607968.84 8607968.99 0.1594 0.0205

Venus 18855-11-12 07:40 G 8608022.71 8608022.82 8608022.93 0.3690 0.1163

Venus 18857-05-25 03:36 G 8608582.58 8608582.65 8608582.72 0.3680 0.2954

Uranus 18860-01-15 21:50 G 8609548.37 8609548.41 8609548.46 0.0145 0.0138

Uranus 18860-04-13 03:21 G 8609636.55 8609636.64 8609636.74 0.0145 0.0114

Mars 18860-06-09 23:16 G 8609694.41 8609694.47 8609694.54 0.1938 0.1648

Saturn 18860-07-07 16:04 G 8609722.16 8609722.17 8609722.19 0.0276 0.0274

Uranus 18860-07-10 08:52 G 8609724.75 8609724.87 8609724.99 0.0145 0.0090

Saturn 18860-10-04 06:14 G 8609810.65 8609810.76 8609810.88 0.0277 0.0174

Uranus 18860-10-06 14:24 G 8609812.96 8609813.10 8609813.24 0.0145 0.0066

Jupiter 18860-12-30 22:04 G 8609898.34 8609898.42 8609898.50 0.0497 0.0414

Saturn 18860-12-31 20:38 G 8609899.21 8609899.36 8609899.51 0.0277 0.0071

Uranus 18861-01-02 19:55 G 8609901.18 8609901.33 8609901.48 0.0145 0.0042

Jupiter 18861-03-30 09:21 G 8609987.75 8609987.89 8609988.04 0.0495 0.0154

Saturn 18861-03-30 11:16 G 8609987.82 8609987.97 8609988.12 0.0277 0.0035 *

Uranus 18861-04-01 01:26 G 8609989.40 8609989.56 8609989.72 0.0145 0.0017

Moon 18861-05-25 08:52 G 8610043.77 8610043.87 8610043.97 0.2653 0.1652

Earth 18861-05-25 09:36 G 8610043.80 8610043.90 8610044.00 0.2649 0.1679 *

Venus 18861-05-28 02:52 G 8610046.51 8610046.62 8610046.74 0.3691 0.0422

Saturn 18861-06-27 02:24 G 8610076.47 8610076.60 8610076.73 0.0278 0.0143

Uranus 18861-06-28 07:12 G 8610077.64 8610077.80 8610077.96 0.0145 0.0008

Saturn 18861-09-23 17:45 G 8610165.18 8610165.24 8610165.30 0.0278 0.0254

Uranus 18861-09-24 12:43 G 8610165.88 8610166.03 8610166.19 0.0145 0.0033

Uranus 18861-12-21 18:28 G 8610254.13 8610254.27 8610254.42 0.0145 0.0058

Uranus 18862-03-20 00:14 G 8610342.38 8610342.51 8610342.65 0.0145 0.0083

Uranus 18862-06-16 06:00 G 8610430.65 8610430.75 8610430.86 0.0145 0.0108

Uranus 18862-09-12 11:45 G 8610518.94 8610518.99 8610519.06 0.0145 0.0134

Venus 18862-12-09 01:26 G 8610606.44 8610606.56 8610606.68 0.3680 0.1131

Moon 18863-11-23 11:02 G 8610955.86 8610955.96 8610956.07 0.2689 0.1511

Earth 18863-11-23 11:16 G 8610955.87 8610955.97 8610956.08 0.2682 0.1451 *

Mars 18865-02-08 15:36 G 8611399.01 8611399.15 8611399.28 0.1597 0.0485

Venus 18866-12-11 22:04 G 8612070.32 8612070.42 8612070.52 0.3691 0.1893

Jupiter 18867-06-01 09:50 G 8612241.76 8612241.91 8612242.06 0.0532 0.0110

Venus 18868-06-23 23:45 G 8612630.36 8612630.49 8612630.61 0.3679 0.0794

Venus 18872-06-26 16:48 G 8614094.15 8614094.20 8614094.25 0.3692 0.3330

Jupiter 18873-01-16 12:28 G 8614297.87 8614298.02 8614298.17 0.0495 0.0017

Venus 18874-01-07 22:19 G 8614654.35 8614654.43 8614654.51 0.3679 0.2806

Mars 18874-07-01 23:02 G 8614829.36 8614829.46 8614829.55 0.1599 0.1165

Saturn 18875-02-13 18:57 G 8615056.18 8615056.29 8615056.41 0.0282 0.0196

Saturn 18875-05-13 11:45 G 8615144.84 8615144.99 8615145.14 0.0282 0.0078

Saturn 18875-08-10 04:04 G 8615233.52 8615233.67 8615233.82 0.0282 0.0038

Saturn 18875-11-06 19:55 G 8615322.20 8615322.33 8615322.46 0.0281 0.0150

Saturn 18876-02-03 11:16 G 8615410.92 8615410.97 8615411.04 0.0281 0.0259

Jupiter 18879-03-20 09:50 G 8616551.79 8616551.91 8616552.04 0.0532 0.0299

Jupiter 18879-06-18 06:43 G 8616641.70 8616641.78 8616641.86 0.0535 0.0448

Mars 18881-02-26 15:21 G 8617261.02 8617261.14 8617261.25 0.1945 0.0905

Moon 18881-05-20 17:45 G 8617344.15 8617344.24 8617344.34 0.2644 0.1755

Earth 18881-05-20 18:43 G 8617344.18 8617344.28 8617344.38 0.2648 0.1655 *

Moon 18883-11-18 20:24 G 8618256.27 8618256.35 8618256.43 0.2683 0.1996

Earth 18883-11-18 21:21 G 8618256.30 8618256.39 8618256.48 0.2683 0.1856 *

Jupiter 18884-11-04 15:07 G 8618607.99 8618608.13 8618608.28 0.0496 0.0125

Jupiter 18885-02-02 03:07 G 8618697.58 8618697.63 8618697.69 0.0493 0.0451

Mars 18885-10-28 01:26 G 8618965.44 8618965.56 8618965.67 0.1592 0.1007

Saturn 18890-02-21 07:12 G 8620542.71 8620542.80 8620542.90 0.0277 0.0207

Saturn 18890-05-20 21:36 G 8620631.26 8620631.40 8620631.53 0.0277 0.0105

Mars 18890-07-19 19:40 G 8620691.19 8620691.32 8620691.45 0.1942 0.0289

Saturn 18890-08-17 12:00 G 8620719.85 8620720.00 8620720.15 0.0277 0.0005

Saturn 18890-11-14 02:52 G 8620808.48 8620808.62 8620808.76 0.0278 0.0107

Jupiter 18891-01-06 10:19 G 8620861.87 8620861.93 8620861.99 0.0531 0.0483

Saturn 18891-02-10 18:00 G 8620897.16 8620897.25 8620897.35 0.0278 0.0217

Jupiter 18891-04-06 07:40 G 8620951.69 8620951.82 8620951.95 0.0534 0.0272

Moon 18894-05-23 16:04 G 8622095.04 8622095.17 8622095.30 0.2650 0.0152

Earth	18894-05-23 17:02 G	8622095.08	8622095.21	8622095.34	0.2649	0.0233 *
Mars	18895-03-20 08:24 G	8622395.71	8622395.85	8622395.99	0.1594	0.0304
Jupiter	18896-08-23 18:00 G	8622918.13	8622918.25	8622918.38	0.0496	0.0264
Moon	18896-11-20 18:14 G	8623007.14	8623007.26	8623007.39	0.2689	0.0095
Earth	18896-11-20 18:57 G	8623007.16	8623007.29	8623007.41	0.2683	0.0070 *
Jupiter	18896-11-21 05:45 G	8623007.62	8623007.74	8623007.86	0.0494	0.0307
Mars	18899-12-09 23:31 G	8624121.40	8624121.48	8624121.55	0.1938	0.1541
Uranus	18902-05-06 01:12 G	8624998.51	8624998.55	8624998.61	0.0133	0.0126
Uranus	18902-08-02 05:45 G	8625086.66	8625086.74	8625086.84	0.0133	0.0107
Uranus	18902-10-29 10:19 G	8625174.82	8625174.93	8625175.05	0.0133	0.0088
Jupiter	18903-01-24 08:38 G	8625261.71	8625261.86	8625262.01	0.0533	0.0095
Uranus	18903-01-25 14:38 G	8625262.99	8625263.11	8625263.25	0.0133	0.0069
Uranus	18903-04-23 19:12 G	8625351.16	8625351.30	8625351.45	0.0133	0.0050
Uranus	18903-07-20 23:31 G	8625439.33	8625439.48	8625439.64	0.0133	0.0031
Uranus	18903-10-17 03:50 G	8625527.51	8625527.66	8625527.82	0.0133	0.0013
Uranus	18904-01-13 08:09 G	8625615.69	8625615.84	8625616.00	0.0133	0.0007
Uranus	18904-04-10 12:28 G	8625703.87	8625704.02	8625704.17	0.0133	0.0024
Saturn	18904-07-03 18:28 G	8625788.19	8625788.27	8625788.36	0.0282	0.0238
Uranus	18904-07-07 16:48 G	8625792.05	8625792.20	8625792.34	0.0133	0.0042
Mars	18904-08-10 15:50 G	8625826.02	8625826.16	8625826.30	0.1597	0.0388
Saturn	18904-09-30 11:31 G	8625876.84	8625876.98	8625877.13	0.0282	0.0119
Uranus	18904-10-03 20:52 G	8625880.24	8625880.37	8625880.51	0.0133	0.0061
Saturn	18904-12-28 04:04 G	8625965.51	8625965.67	8625965.83	0.0282	0.0002
Uranus	18904-12-31 01:12 G	8625968.43	8625968.55	8625968.67	0.0133	0.0079
Saturn	18905-03-26 20:09 G	8626054.20	8626054.34	8626054.48	0.0281	0.0112
Uranus	18905-03-29 05:16 G	8626056.62	8626056.72	8626056.82	0.0133	0.0096
Saturn	18905-06-23 11:45 G	8626142.90	8626142.99	8626143.09	0.0281	0.0222
Uranus	18905-06-25 09:07 G	8626144.82	8626144.88	8626144.97	0.0133	0.0115
Uranus	18905-09-21 13:26 G	8626233.04	8626233.06	8626233.08	0.0133	0.0132
Venus	18906-12-04 10:33 G	8626671.85	8626671.94	8626672.04	0.3690	0.2269

Moon 18907-05-27 14:24 G 8626846.02 8626846.10 8626846.19 0.2654 0.1929

Earth 18907-05-27 15:07 G 8626846.05 8626846.13 8626846.21 0.2649 0.2059 *

Jupiter 18908-06-12 20:24 G 8627228.27 8627228.35 8627228.43 0.0497 0.0413

Jupiter 18908-09-10 07:40 G 8627317.68 8627317.82 8627317.96 0.0494 0.0153

Moon 18909-11-24 16:48 G 8627758.11 8627758.20 8627758.29 0.2689 0.1787

Earth 18909-11-24 16:48 G 8627758.11 8627758.20 8627758.29 0.2682 0.1841 *

Venus 18912-06-19 06:14 G 8628695.64 8628695.76 8628695.87 0.3691 0.0666

Venus 18913-12-31 02:38 G 8629255.52 8629255.61 8629255.71 0.3680 0.2387

Mars 18913-12-31 23:16 G 8629256.36 8629256.47 8629256.57 0.1599 0.1066

Jupiter 18914-11-12 08:52 G 8629571.71 8629571.87 8629572.02 0.0532 0.0096

Neptune 18915-09-03 22:04 G 8629867.42 8629867.42 8629867.42 0.0088 0.0088

Neptune 18915-11-30 23:31 G 8629955.44 8629955.48 8629955.55 0.0088 0.0081

Neptune 18916-02-27 01:40 G 8630043.49 8630043.57 8630043.66 0.0088 0.0074

Neptune 18916-05-25 03:36 G 8630131.56 8630131.65 8630131.76 0.0088 0.0066

Neptune 18916-08-21 05:16 G 8630219.62 8630219.72 8630219.85 0.0088 0.0059

Neptune 18916-11-17 07:26 G 8630307.69 8630307.81 8630307.94 0.0088 0.0051

Neptune 18917-02-13 09:21 G 8630395.76 8630395.89 8630396.03 0.0088 0.0044

Neptune 18917-05-12 11:31 G 8630483.84 8630483.98 8630484.12 0.0088 0.0036

Neptune 18917-08-08 13:12 G 8630571.92 8630572.05 8630572.21 0.0088 0.0029

Neptune 18917-11-04 15:21 G 8630659.99 8630660.14 8630660.29 0.0088 0.0021

Venus 18918-01-03 01:26 G 8630719.45 8630719.56 8630719.67 0.3691 0.0881

Neptune 18918-01-31 17:16 G 8630748.07 8630748.22 8630748.38 0.0088 0.0014

Neptune 18918-04-29 19:26 G 8630836.15 8630836.31 8630836.46 0.0088 0.0006

Neptune 18918-07-26 21:21 G 8630924.24 8630924.39 8630924.55 0.0088 0.0002

Neptune 18918-10-22 23:16 G 8631012.32 8631012.47 8631012.63 0.0088 0.0010

Neptune 18919-01-19 01:26 G 8631100.41 8631100.56 8631100.71 0.0088 0.0017

Neptune 18919-04-17 03:21 G 8631188.50 8631188.64 8631188.79 0.0088 0.0025

Saturn 18919-07-12 10:04 G 8631274.84 8631274.92 8631275.01 0.0277 0.0227

Neptune 18919-07-14 05:16 G 8631276.59 8631276.72 8631276.88 0.0088 0.0033

Venus 18919-07-17 00:43 G 8631279.40 8631279.53 8631279.65 0.3680 0.0546

Saturn 18919-10-09 00:14 G 8631363.38 8631363.51 8631363.65 0.0277 0.0126

Neptune 18919-10-10 07:26 G 8631364.68 8631364.81 8631364.95 0.0088 0.0040

Saturn 18920-01-05 14:52 G 8631451.97 8631452.12 8631452.27 0.0277 0.0021

Neptune 18920-01-06 09:21 G 8631452.77 8631452.89 8631453.03 0.0088 0.0048

Saturn 18920-04-03 05:45 G 8631540.59 8631540.74 8631540.88 0.0277 0.0086

Neptune 18920-04-03 11:31 G 8631540.87 8631540.98 8631541.11 0.0088 0.0056 *

Jupiter 18920-06-29 10:19 G 8631627.78 8631627.93 8631628.07 0.0495 0.0017

Neptune 18920-06-30 13:26 G 8631628.97 8631629.06 8631629.18 0.0088 0.0064

Saturn 18920-06-30 20:52 G 8631629.26 8631629.37 8631629.48 0.0278 0.0195

Mars 18920-08-28 15:36 G 8631688.04 8631688.15 8631688.26 0.1946 0.1042

Neptune 18920-09-26 15:36 G 8631717.07 8631717.15 8631717.25 0.0088 0.0072

Neptune 18920-12-23 17:31 G 8631805.19 8631805.23 8631805.31 0.0088 0.0080

Neptune 18921-03-21 20:09 G 8631893.32 8631893.34 8631893.35 0.0088 0.0087

Venus 18923-07-19 20:24 G 8632743.26 8632743.35 8632743.44 0.3692 0.2358

Venus 18925-01-29 23:02 G 8633303.34 8633303.46 8633303.58 0.3679 0.1409

Mars 18925-04-29 01:40 G 8633392.47 8633392.57 8633392.67 0.1592 0.1112

Jupiter 18926-08-31 07:40 G 8633881.70 8633881.82 8633881.95 0.0531 0.0303

Jupiter 18926-11-29 04:33 G 8633971.61 8633971.69 8633971.78 0.0535 0.0444

Moon 18927-05-22 23:16 G 8634146.36 8634146.47 8634146.58 0.2646 0.1421

Earth 18927-05-23 00:14 G 8634146.39 8634146.51 8634146.62 0.2649 0.1255 *

Moon 18929-11-20 01:40 G 8635058.47 8635058.57 8635058.67 0.2685 0.1635

Earth 18929-11-20 02:38 G 8635058.51 8635058.61 8635058.71 0.2683 0.1489 *

Mars 18930-01-18 19:55 G 8635118.20 8635118.33 8635118.45 0.1942 0.0183

Venus 18930-08-15 21:50 G 8635327.37 8635327.41 8635327.45 0.3679 0.3452

Jupiter 18932-04-17 13:12 G 8635937.91 8635938.05 8635938.19 0.0496 0.0127

Jupiter 18932-07-16 01:12 G 8636027.49 8636027.55 8636027.61 0.0493 0.0448

Saturn 18933-11-20 21:21 G 8636520.34 8636520.39 8636520.46 0.0282 0.0258

Saturn 18934-02-17 14:24 G 8636608.97 8636609.10 8636609.24 0.0282 0.0138

Saturn 18934-05-17 06:57 G 8636697.64 8636697.79 8636697.95 0.0282 0.0023

Saturn 18934-08-13 23:16 G 8636786.32 8636786.47 8636786.61 0.0281 0.0093

Mars	18934-09-19 08:52 G	8636822.73	8636822.87	8636823.01	0.1594	0.0412
Saturn	18934-11-10 14:52 G	8636875.02	8636875.12	8636875.23	0.0281	0.0203
Jupiter	18938-06-19 07:40 G	8638191.77	8638191.82	8638191.88	0.0531	0.0494
Jupiter	18938-09-17 05:16 G	8638281.58	8638281.72	8638281.85	0.0534	0.0260
Mars	18939-06-10 23:45 G	8638548.40	8638548.49	8638548.58	0.1938	0.1402
Moon	18940-05-24 21:21 G	8638897.27	8638897.39	8638897.52	0.2650	0.0478
Earth	18940-05-24 22:33 G	8638897.31	8638897.44	8638897.57	0.2649	0.0624 *
Moon	18942-11-22 23:45 G	8639809.36	8639809.49	8639809.61	0.2689	0.0254
Earth	18942-11-23 00:14 G	8639809.38	8639809.51	8639809.64	0.2683	0.0340 *
Jupiter	18944-02-04 16:04 G	8640248.05	8640248.17	8640248.30	0.0497	0.0266
Uranus	18944-02-06 05:16 G	8640249.67	8640249.72	8640249.79	0.0145	0.0132
Mars	18944-02-09 16:04 G	8640253.03	8640253.17	8640253.31	0.1596	0.0288
Jupiter	18944-05-04 03:50 G	8640337.54	8640337.66	8640337.78	0.0494	0.0306
Uranus	18944-05-04 10:48 G	8640337.85	8640337.95	8640338.06	0.0145	0.0108
Uranus	18944-07-31 16:19 G	8640426.05	8640426.18	8640426.31	0.0145	0.0084
Uranus	18944-10-27 21:50 G	8640514.27	8640514.41	8640514.55	0.0145	0.0059
Uranus	18945-01-24 03:21 G	8640602.49	8640602.64	8640602.80	0.0145	0.0035
Uranus	18945-04-22 08:52 G	8640690.72	8640690.87	8640691.03	0.0145	0.0011
Uranus	18945-07-19 14:38 G	8640778.95	8640779.11	8640779.27	0.0145	0.0014
Uranus	18945-10-15 20:24 G	8640867.19	8640867.35	8640867.50	0.0145	0.0040
Uranus	18946-01-12 01:55 G	8640955.44	8640955.58	8640955.73	0.0145	0.0065
Uranus	18946-04-10 07:40 G	8641043.70	8641043.82	8641043.95	0.0145	0.0090
Uranus	18946-07-07 13:40 G	8641131.97	8641132.07	8641132.17	0.0145	0.0115
Uranus	18946-10-03 19:26 G	8641220.28	8641220.31	8641220.35	0.0145	0.0141
Saturn	18948-11-28 11:31 G	8642006.93	8642006.98	8642007.03	0.0277	0.0258
Saturn	18949-02-25 01:26 G	8642095.44	8642095.56	8642095.68	0.0277	0.0158
Saturn	18949-05-24 15:50 G	8642184.01	8642184.16	8642184.31	0.0277	0.0055
Saturn	18949-08-21 06:28 G	8642272.62	8642272.77	8642272.92	0.0277	0.0052
Saturn	18949-11-17 21:36 G	8642361.28	8642361.40	8642361.53	0.0278	0.0160
Saturn	18950-02-14 12:57 G	8642450.01	8642450.04	8642450.08	0.0278	0.0271

Jupiter 18950-07-06 06:00 G 8642591.60 8642591.75 8642591.90 0.0534 0.0081

Moon 18953-05-27 20:09 G 8643648.29 8643648.34 8643648.38 0.2655 0.2428

Earth 18953-05-27 20:24 G 8643648.31 8643648.35 8643648.40 0.2649 0.2433 *

Mars 18953-07-01 23:31 G 8643683.36 8643683.48 8643683.59 0.1599 0.0969

Jupiter 18955-11-23 19:12 G 8644558.22 8644558.30 8644558.38 0.0497 0.0403

Earth 18955-11-25 22:04 G 8644560.35 8644560.42 8644560.49 0.2682 0.2227

Moon 18955-11-25 22:19 G 8644560.37 8644560.43 8644560.49 0.2689 0.2320 *

Jupiter 18956-02-21 06:28 G 8644647.63 8644647.77 8644647.91 0.0494 0.0163

Venus 18957-12-25 13:26 G 8645321.02 8645321.06 8645321.10 0.3690 0.3403

Mars 18960-02-27 15:36 G 8646115.05 8646115.15 8646115.25 0.1945 0.1148

Jupiter 18962-04-24 06:43 G 8646901.63 8646901.78 8646901.94 0.0533 0.0098

Saturn 18963-07-07 13:55 G 8647340.96 8647341.08 8647341.21 0.0282 0.0181

Venus 18963-07-11 09:07 G 8647344.78 8647344.88 8647344.99 0.3690 0.1757

Saturn 18963-10-04 06:43 G 8647429.63 8647429.78 8647429.93 0.0282 0.0063

Saturn 18963-12-31 23:02 G 8647518.31 8647518.46 8647518.61 0.0281 0.0052

Saturn 18964-03-29 14:52 G 8647607.00 8647607.12 8647607.25 0.0281 0.0164

Saturn 18964-06-26 06:14 G 8647695.74 8647695.76 8647695.80 0.0281 0.0273

Mars 18964-10-28 01:55 G 8647819.49 8647819.58 8647819.67 0.1592 0.1213

Venus 18965-01-21 04:19 G 8647904.65 8647904.68 8647904.70 0.3681 0.3604

Jupiter 18967-12-10 08:24 G 8648957.71 8648957.85 8648958.00 0.0495 0.0016

Venus 18969-01-24 04:33 G 8649368.58 8649368.69 8649368.81 0.3691 0.0214

Mars 18969-07-19 19:55 G 8649545.20 8649545.33 8649545.46 0.1942 0.0073

Venus 18970-08-07 01:55 G 8649928.47 8649928.58 8649928.68 0.3680 0.1823

Moon 18973-05-23 04:33 G 8650948.57 8650948.69 8650948.81 0.2647 0.0938

Earth 18973-05-23 05:45 G 8650948.61 8650948.74 8650948.86 0.2649 0.0864 *

Jupiter 18974-02-10 06:57 G 8651211.66 8651211.79 8651211.92 0.0532 0.0287

Mars 18974-03-20 09:07 G 8651249.74 8651249.88 8651250.01 0.1594 0.0512

Jupiter 18974-05-11 03:36 G 8651301.58 8651301.65 8651301.73 0.0535 0.0460

Venus 18974-08-09 23:45 G 8651392.39 8651392.49 8651392.60 0.3691 0.1361

Moon 18975-11-21 06:57 G 8651860.68 8651860.79 8651860.91 0.2686 0.1191

Earth 18975-11-21 07:55 G 8651860.72 8651860.83 8651860.94 0.2683 0.1123 *

Venus 18976-02-21 00:00 G 8651952.37 8651952.50 8651952.62 0.3680 0.0147

Saturn 18978-07-15 03:50 G 8652827.56 8652827.66 8652827.78 0.0277 0.0181

Saturn 18978-10-11 18:14 G 8652916.12 8652916.26 8652916.41 0.0277 0.0078

Mars 18978-12-10 00:00 G 8652975.41 8652975.50 8652975.60 0.1938 0.1270

Saturn 18979-01-08 09:07 G 8653004.72 8653004.88 8653005.03 0.0277 0.0029

Saturn 18979-04-07 00:00 G 8653093.37 8653093.50 8653093.64 0.0278 0.0136

Saturn 18979-07-04 15:21 G 8653182.07 8653182.14 8653182.21 0.0278 0.0247

Jupiter 18979-09-28 11:02 G 8653267.82 8653267.96 8653268.11 0.0496 0.0134

Jupiter 18979-12-26 23:02 G 8653357.40 8653357.46 8653357.53 0.0493 0.0443

Venus 18980-02-23 18:43 G 8653416.21 8653416.28 8653416.35 0.3692 0.2817

Venus 18981-09-05 22:19 G 8653976.32 8653976.43 8653976.54 0.3679 0.2028

Mars 18983-08-10 16:19 G 8654680.04 8654680.18 8654680.32 0.1596 0.0180

Jupiter 18985-11-29 05:45 G 8655521.69 8655521.74 8655521.79 0.0530 0.0496

Jupiter 18986-02-27 03:07 G 8655611.50 8655611.63 8655611.77 0.0534 0.0258

Moon 18986-05-26 03:07 G 8655699.50 8655699.63 8655699.75 0.2651 0.0882

Earth 18986-05-26 03:50 G 8655699.55 8655699.66 8655699.78 0.2649 0.1011 *

Uranus 18986-05-26 08:38 G 8655699.81 8655699.86 8655699.94 0.0133 0.0120

Uranus 18986-08-22 13:12 G 8655787.96 8655788.05 8655788.16 0.0133 0.0101

Uranus 18986-11-18 17:45 G 8655876.12 8655876.24 8655876.37 0.0133 0.0082

Uranus 18987-02-14 22:04 G 8655964.29 8655964.42 8655964.57 0.0133 0.0063

Uranus 18987-05-14 02:38 G 8656052.46 8656052.61 8656052.76 0.0133 0.0044

Uranus 18987-08-10 06:57 G 8656140.64 8656140.79 8656140.95 0.0133 0.0026

Uranus 18987-11-06 11:16 G 8656228.82 8656228.97 8656229.13 0.0133 0.0007

Uranus 18988-02-02 15:36 G 8656317.00 8656317.15 8656317.31 0.0133 0.0012

Uranus 18988-04-30 19:55 G 8656405.18 8656405.33 8656405.48 0.0133 0.0030

Uranus 18988-07-28 00:00 G 8656493.36 8656493.50 8656493.65 0.0133 0.0048

Uranus 18988-10-24 04:04 G 8656581.55 8656581.67 8656581.81 0.0133 0.0067

Moon 18988-11-23 05:02 G 8656611.59 8656611.71 8656611.83 0.2689 0.0659

Earth 18988-11-23 05:31 G 8656611.61 8656611.73 8656611.85 0.2683 0.0717 *

Uranus	18989-01-20 08:24 G	8656669.74	8656669.85	8656669.97	0.0133	0.0084
Uranus	18989-04-18 12:28 G	8656757.93	8656758.02	8656758.12	0.0133	0.0102
Uranus	18989-07-15 16:33 G	8656846.13	8656846.19	8656846.26	0.0133	0.0120
Jupiter	18991-07-17 14:24 G	8657577.97	8657578.10	8657578.22	0.0497	0.0268
Jupiter	18991-10-15 01:55 G	8657667.46	8657667.58	8657667.70	0.0494	0.0304
Saturn	18992-11-23 17:02 G	8658073.10	8658073.21	8658073.32	0.0282	0.0200
Mars	18992-12-30 23:45 G	8658110.37	8658110.49	8658110.61	0.1599	0.0868
Saturn	18993-02-20 09:50 G	8658161.76	8658161.91	8658162.06	0.0282	0.0082
Saturn	18993-05-20 02:09 G	8658250.43	8658250.59	8658250.74	0.0282	0.0034
Saturn	18993-08-16 18:00 G	8658339.12	8658339.25	8658339.38	0.0281	0.0146
Saturn	18993-11-13 09:36 G	8658427.84	8658427.90	8658427.96	0.0281	0.0255
Pluto	18994-05-27 11:31 G	8658622.96	8658622.98	8658623.01	0.0070	0.0069
Pluto	18994-08-23 12:00 G	8658710.94	8658711.00	8658711.08	0.0070	0.0060
Pluto	18994-11-19 12:28 G	8658798.94	8658799.02	8658799.13	0.0071	0.0051
Pluto	18995-02-15 13:26 G	8658886.95	8658887.06	8658887.17	0.0071	0.0041
Pluto	18995-05-14 13:55 G	8658974.97	8658975.08	8658975.21	0.0071	0.0032
Pluto	18995-08-10 14:38 G	8659062.99	8659063.11	8659063.24	0.0071	0.0022
Pluto	18995-11-06 15:21 G	8659151.01	8659151.14	8659151.27	0.0071	0.0013
Pluto	18996-02-02 16:04 G	8659239.04	8659239.17	8659239.30	0.0071	0.0003
Pluto	18996-04-30 16:48 G	8659327.06	8659327.20	8659327.33	0.0071	0.0007
Pluto	18996-07-27 17:16 G	8659415.09	8659415.22	8659415.35	0.0071	0.0016
Pluto	18996-10-23 18:00 G	8659503.13	8659503.25	8659503.37	0.0071	0.0026
Pluto	18997-01-19 18:28 G	8659591.16	8659591.27	8659591.39	0.0072	0.0036
Pluto	18997-04-17 19:12 G	8659679.21	8659679.30	8659679.41	0.0072	0.0046
Pluto	18997-07-14 19:40 G	8659767.25	8659767.32	8659767.42	0.0072	0.0056
Pluto	18997-10-10 20:38 G	8659855.31	8659855.36	8659855.42	0.0072	0.0065
Jupiter	18997-12-16 03:36 G	8659921.49	8659921.65	8659921.80	0.0533	0.0072
Neptune	18999-02-27 18:57 G	8660360.25	8660360.29	8660360.37	0.0089	0.0082
Neptune	18999-05-26 21:36 G	8660448.32	8660448.40	8660448.50	0.0089	0.0073
Neptune	18999-08-22 23:45 G	8660536.40	8660536.49	8660536.62	0.0089	0.0065

Mars 18999-08-28 15:50 G 8660542.07 8660542.16 8660542.26 0.1946 0.1279

Neptune 18999-11-19 02:24 G 8660624.48 8660624.60 8660624.73 0.0089 0.0056

Neptune 19000-02-15 04:33 G 8660712.57 8660712.69 8660712.84 0.0089 0.0048

Neptune 19000-05-14 07:12 G 8660800.66 8660800.80 8660800.95 0.0089 0.0039

Neptune 19000-08-10 09:21 G 8660888.75 8660888.89 8660889.05 0.0089 0.0031

Neptune 19000-11-06 11:45 G 8660976.84 8660976.99 8660977.15 0.0089 0.0023

20TH MILLENNIUM CE

This is a list of transits of Mercury in the 20th millennium CE.

FROM MAX-TRANSIT TIME C START MAX END SUNRAD DEPTH S

Neptune 19001-02-02 14:09 G 8661064.93 8661065.09 8661065.25 0.0089 0.0014

Neptune 19001-05-01 16:33 G 8661153.03 8661153.19 8661153.35 0.0089 0.0006

Neptune 19001-07-28 18:43 G 8661241.12 8661241.28 8661241.44 0.0089 0.0002

Neptune 19001-10-24 21:07 G 8661329.22 8661329.38 8661329.54 0.0089 0.0011

Earth 19001-11-27 03:36 G 8661362.62 8661362.65 8661362.67 0.2682 0.2618

Moon 19001-11-27 03:50 G 8661362.65 8661362.66 8661362.68 0.2689 0.2660 *

Neptune 19002-01-20 23:16 G 8661417.31 8661417.47 8661417.63 0.0089 0.0019

Neptune 19002-04-19 01:12 G 8661505.41 8661505.55 8661505.72 0.0089 0.0028

Mars 19002-05-24 07:12 G 8661540.77 8661540.80 8661540.84 0.1601 0.1545

Neptune 19002-07-16 03:36 G 8661593.51 8661593.65 8661593.80 0.0089 0.0035

Neptune 19002-10-12 05:45 G 8661681.61 8661681.74 8661681.89 0.0089 0.0043

Neptune 19003-01-08 07:55 G 8661769.71 8661769.83 8661769.97 0.0089 0.0051

Neptune 19003-04-06 10:04 G 8661857.82 8661857.92 8661858.05 0.0089 0.0059

Jupiter 19003-05-06 17:16 G 8661888.14 8661888.22 8661888.31 0.0497 0.0404

Neptune 19003-07-03 12:14 G 8661945.92 8661946.01 8661946.13 0.0089 0.0067

Jupiter 19003-08-04 04:33 G 8661977.55 8661977.69 8661977.83 0.0495 0.0163

Neptune 19003-09-29 14:24 G 8662034.03 8662034.10 8662034.20 0.0089 0.0075

Neptune 19003-12-26 16:33 G 8662122.15 8662122.19 8662122.26 0.0089 0.0083

Mars 19004-04-29 02:09 G 8662246.51 8662246.59 8662246.67 0.1592 0.1320

Moon 19006-05-22 12:00 G 8662999.94 8663000.00 8663000.05 0.2644 0.2396

Earth 19006-05-22 12:28 G 8662999.97 8663000.02 8663000.08 0.2649 0.2392 *

Saturn 19007-12-03 05:16 G 8663559.63 8663559.72 8663559.82 0.0277 0.0212

Saturn 19008-02-29 19:26 G 8663648.18 8663648.31 8663648.45 0.0277 0.0110

Saturn 19008-05-28 10:04 G 8663736.77 8663736.92 8663737.07 0.0277 0.0007

Saturn 19008-08-25 00:43 G 8663825.39 8663825.53 8663825.68 0.0278 0.0102

Moon 19008-11-19 14:52 G 8663912.09 8663912.12 8663912.16 0.2681 0.2576

Earth 19008-11-19 15:50 G 8663912.13 8663912.16 8663912.20 0.2683 0.2531 *

Saturn 19008-11-21 16:04 G 8663914.07 8663914.17 8663914.27 0.0278 0.0211

Mars 19009-01-18 20:09 G 8663972.22 8663972.34 8663972.47 0.1942 0.0106

Jupiter 19009-10-05 04:04 G 8664231.52 8664231.67 8664231.82 0.0533 0.0111

Mars 19013-09-19 09:21 G 8665676.76 8665676.89 8665677.02 0.1594 0.0614

Venus 19014-08-02 12:00 G 8665993.93 8665994.00 8665994.08 0.3690 0.2881

Jupiter 19015-05-23 07:26 G 8666287.66 8666287.81 8666287.95 0.0495 0.0024

Mars 19018-06-11 00:14 G 8667402.40 8667402.51 8667402.61 0.1938 0.1159

Moon 19019-05-25 10:04 G 8667750.79 8667750.92 8667751.05 0.2648 0.0682

Earth 19019-05-25 11:16 G 8667750.84 8667750.97 8667751.10 0.2649 0.0470 *

Venus 19020-02-16 07:40 G 8668017.71 8668017.82 8668017.93 0.3691 0.1253

Jupiter 19021-07-24 04:48 G 8668541.57 8668541.70 8668541.83 0.0532 0.0289

Venus 19021-08-29 03:07 G 8668577.57 8668577.63 8668577.70 0.3681 0.3061

Jupiter 19021-10-22 01:40 G 8668631.50 8668631.57 8668631.65 0.0535 0.0459

Moon 19021-11-22 12:28 G 8668662.90 8668663.02 8668663.14 0.2687 0.0923

Earth 19021-11-22 13:12 G 8668662.93 8668663.05 8668663.17 0.2683 0.0746 *

Saturn 19022-04-13 16:19 G 8668805.10 8668805.18 8668805.26 0.0282 0.0244

Saturn 19022-07-11 09:07 G 8668893.74 8668893.88 8668894.03 0.0282 0.0125

Saturn 19022-10-08 01:40 G 8668982.42 8668982.57 8668982.73 0.0281 0.0010

Saturn 19023-01-04 17:45 G 8669071.10 8669071.24 8669071.39 0.0281 0.0106

Mars 19023-02-09 16:33 G 8669107.05 8669107.19 8669107.33 0.1596 0.0083

Saturn 19023-04-03 09:36 G 8669159.80 8669159.90 8669160.00 0.0281 0.0216

Venus 19025-09-01 03:07 G 8670041.51 8670041.63 8670041.75 0.3691 0.0326

Jupiter 19027-03-11 09:36 G 8670597.76 8670597.90 8670598.04 0.0496 0.0129

Venus 19027-03-15 00:57 G 8670601.42 8670601.54 8670601.66 0.3680 0.1242

Jupiter 19027-06-08 21:21 G 8670687.33 8670687.39 8670687.46 0.0493 0.0445

Uranus 19028-02-27 12:57 G 8670950.97 8670951.04 8670951.13 0.0145 0.0124

Uranus 19028-05-25 18:28 G 8671039.16 8671039.27 8671039.39 0.0145 0.0100

Uranus 19028-08-21 23:45 G 8671127.37 8671127.49 8671127.63 0.0145 0.0077

Uranus 19028-11-18 05:16 G 8671215.58 8671215.72 8671215.88 0.0145 0.0053

Uranus 19029-02-14 11:02 G 8671303.80 8671303.96 8671304.12 0.0145 0.0027

Uranus 19029-05-13 16:33 G 8671392.04 8671392.19 8671392.35 0.0145 0.0005

Uranus 19029-08-09 22:19 G 8671480.27 8671480.43 8671480.59 0.0145 0.0022

Uranus 19029-11-06 03:50 G 8671568.52 8671568.66 8671568.82 0.0145 0.0047

Uranus 19030-02-02 09:36 G 8671656.77 8671656.90 8671657.05 0.0145 0.0072

Uranus 19030-05-01 15:21 G 8671745.03 8671745.14 8671745.27 0.0145 0.0098

Uranus 19030-07-28 21:07 G 8671833.31 8671833.38 8671833.48 0.0145 0.0124

Venus 19031-03-17 22:04 G 8672065.32 8672065.42 8672065.52 0.3692 0.1824

Moon 19032-05-27 08:38 G 8672501.75 8672501.86 8672501.97 0.2653 0.1327

Earth 19032-05-27 09:21 G 8672501.78 8672501.89 8672502.00 0.2649 0.1388 *

Mars 19032-07-02 00:00 G 8672537.38 8672537.50 8672537.62 0.1599 0.0768

Venus 19032-09-27 23:02 G 8672625.34 8672625.46 8672625.59 0.3679 0.0670

Jupiter 19033-05-12 04:48 G 8672851.64 8672851.70 8672851.77 0.0531 0.0480

Jupiter 19033-08-10 02:24 G 8672941.47 8672941.60 8672941.73 0.0534 0.0275

Moon 19034-11-25 10:33 G 8673413.83 8673413.94 8673414.06 0.2689 0.1101

Earth 19034-11-25 11:02 G 8673413.84 8673413.96 8673414.07 0.2682 0.1103 *

Venus 19036-09-30 17:02 G 8674089.16 8674089.21 8674089.26 0.3692 0.3277

Saturn	19037-04-21 07:12 G	8674291.73	8674291.80	8674291.88	0.0277	0.0238	
Saturn	19037-07-18 21:21 G	8674380.27	8674380.39	8674380.52	0.0277	0.0137	
Saturn	19037-10-15 12:00 G	8674468.85	8674469.00	8674469.15	0.0277	0.0033	
Saturn	19038-01-12 02:38 G	8674557.47	8674557.61	8674557.76	0.0278	0.0074	
Saturn	19038-04-10 17:45 G	8674646.13	8674646.24	8674646.36	0.0278	0.0184	
Venus	19038-04-13 21:50 G	8674649.32	8674649.41	8674649.49	0.3679	0.2671	
Jupiter	19038-12-28 12:14 G	8674907.89	8674908.01	8674908.14	0.0497	0.0271	
Mars	19039-02-27 16:04 G	8674969.09	8674969.17	8674969.26	0.1946	0.1409	
Jupiter	19039-03-27 23:45 G	8674997.38	8674997.49	8674997.61	0.0494	0.0301	
Mars	19041-11-22 07:40 G	8675967.76	8675967.82	8675967.88	0.1601	0.1443	
Mars	19043-10-29 02:38 G	8676673.55	8676673.61	8676673.67	0.1592	0.1428	
Jupiter	19045-05-29 01:40 G	8677251.42	8677251.57	8677251.72	0.0533	0.0072	
Mars	19048-07-19 20:38 G	8678399.23	8678399.36	8678399.48	0.1942	0.0217	
Jupiter	19050-10-16 15:21 G	8679218.06	8679218.14	8679218.23	0.0498	0.0406	
Jupiter	19051-01-14 02:38 G	8679307.47	8679307.61	8679307.76	0.0495	0.0163	
Saturn	19051-08-31 19:12 G	8679537.25	8679537.30	8679537.35	0.0282	0.0265	
Saturn	19051-11-28 12:14 G	8679625.87	8679626.01	8679626.15	0.0282	0.0144	
Saturn	19052-02-25 04:48 G	8679714.54	8679714.70	8679714.86	0.0282	0.0027	
Moon	19052-05-22 17:16 G	8679802.15	8679802.22	8679802.29	0.2645	0.2158	
Earth	19052-05-22 18:00 G	8679802.17	8679802.25	8679802.34	0.2649	0.1986	*
Saturn	19052-05-23 20:52 G	8679803.23	8679803.37	8679803.52	0.0281	0.0088	
Saturn	19052-08-20 12:43 G	8679891.93	8679892.03	8679892.14	0.0281	0.0198	
Mars	19053-03-20 09:36 G	8680103.77	8680103.90	8680104.03	0.1594	0.0721	
Moon	19054-11-20 20:09 G	8680714.29	8680714.34	8680714.40	0.2683	0.2362	
Earth	19054-11-20 21:07 G	8680714.31	8680714.38	8680714.46	0.2683	0.2166	*
Jupiter	19057-03-17 01:40 G	8681561.42	8681561.57	8681561.73	0.0532	0.0119	
Mars	19057-12-10 00:28 G	8681829.41	8681829.52	8681829.63	0.1939	0.1024	
Mars	19062-08-10 16:48 G	8683534.06	8683534.20	8683534.34	0.1596	0.0020	
Jupiter	19062-11-02 05:31 G	8683617.59	8683617.73	8683617.88	0.0495	0.0026	
Moon	19065-05-25 15:36 G	8684553.02	8684553.15	8684553.28	0.2648	0.0152	

Earth 19065-05-25 16:33 G 8684553.06 8684553.19 8684553.32 0.2649 0.0093 *

Saturn 19066-09-08 08:38 G 8685023.84 8685023.86 8685023.90 0.0277 0.0268

Saturn 19066-12-05 22:48 G 8685112.34 8685112.45 8685112.57 0.0277 0.0168

Saturn 19067-03-04 13:12 G 8685200.90 8685201.05 8685201.20 0.0277 0.0065

Saturn 19067-06-01 03:50 G 8685289.51 8685289.66 8685289.81 0.0277 0.0041

Saturn 19067-08-28 18:43 G 8685378.16 8685378.28 8685378.41 0.0278 0.0150

Moon 19067-11-23 17:45 G 8685465.12 8685465.24 8685465.36 0.2687 0.0406

Earth 19067-11-23 18:28 G 8685465.15 8685465.27 8685465.40 0.2683 0.0383 *

Saturn 19067-11-25 10:04 G 8685466.87 8685466.92 8685466.98 0.0278 0.0260

Jupiter 19069-01-03 02:09 G 8685871.46 8685871.59 8685871.72 0.0532 0.0302

Jupiter 19069-04-02 23:16 G 8685961.39 8685961.47 8685961.55 0.0535 0.0447

Uranus 19070-03-20 12:00 G 8686312.99 8686313.00 8686313.01 0.0133 0.0132

Uranus 19070-06-16 16:19 G 8686401.11 8686401.18 8686401.27 0.0133 0.0113

Uranus 19070-09-12 20:52 G 8686489.27 8686489.37 8686489.48 0.0133 0.0094

Uranus 19070-12-10 01:26 G 8686577.43 8686577.56 8686577.69 0.0133 0.0075

Uranus 19071-03-08 05:45 G 8686665.60 8686665.74 8686665.89 0.0133 0.0056

Venus 19071-03-09 10:33 G 8686666.85 8686666.94 8686667.03 0.3690 0.2371

Uranus 19071-06-04 10:04 G 8686753.78 8686753.92 8686754.08 0.0133 0.0038

Uranus 19071-08-31 14:38 G 8686841.96 8686842.11 8686842.26 0.0133 0.0019

Uranus 19071-11-27 18:57 G 8686930.13 8686930.29 8686930.44 0.0133 0.0001

Mars 19072-01-01 00:14 G 8686964.38 8686964.51 8686964.64 0.1599 0.0671

Uranus 19072-02-23 23:16 G 8687018.31 8687018.47 8687018.62 0.0133 0.0018

Uranus 19072-05-22 03:21 G 8687106.50 8687106.64 8687106.79 0.0133 0.0036

Uranus 19072-08-18 07:40 G 8687194.68 8687194.82 8687194.96 0.0133 0.0054

Uranus 19072-11-14 11:45 G 8687282.87 8687282.99 8687283.12 0.0133 0.0072

Uranus 19073-02-10 15:50 G 8687371.06 8687371.16 8687371.28 0.0133 0.0090

Uranus 19073-05-09 19:55 G 8687459.25 8687459.33 8687459.43 0.0133 0.0108

Uranus 19073-08-06 00:14 G 8687547.46 8687547.51 8687547.56 0.0133 0.0126

Jupiter 19074-08-21 08:24 G 8687927.71 8687927.85 8687928.00 0.0496 0.0118

Jupiter 19074-11-18 20:24 G 8688017.30 8688017.35 8688017.40 0.0493 0.0457

Venus 19076-09-22 06:14 G 8688690.65 8688690.76 8688690.87 0.3691 0.0749

Venus 19078-04-05 02:24 G 8689250.51 8689250.60 8689250.69 0.3680 0.2502

Moon 19078-05-28 14:09 G 8689303.99 8689304.09 8689304.19 0.2654 0.1620

Earth 19078-05-28 14:52 G 8689304.02 8689304.12 8689304.21 0.2649 0.1769 *

Mars 19078-08-28 16:19 G 8689396.10 8689396.18 8689396.26 0.1946 0.1525

Pluto 19080-04-12 06:57 G 8689988.70 8689988.79 8689988.92 0.0074 0.0061

Neptune 19080-05-31 20:38 G 8690038.35 8690038.36 8690038.41 0.0088 0.0086

Pluto 19080-07-09 09:50 G 8690076.76 8690076.91 8690077.06 0.0073 0.0045

Neptune 19080-08-27 22:48 G 8690126.39 8690126.45 8690126.52 0.0088 0.0079

Pluto 19080-10-05 12:00 G 8690164.83 8690165.00 8690165.19 0.0073 0.0030

Jupiter 19080-10-22 02:52 G 8690181.56 8690181.62 8690181.68 0.0531 0.0482

Neptune 19080-11-24 00:43 G 8690214.45 8690214.53 8690214.62 0.0088 0.0071

Moon 19080-11-25 16:19 G 8690216.08 8690216.18 8690216.29 0.2689 0.1440

Earth 19080-11-25 16:19 G 8690216.08 8690216.18 8690216.29 0.2682 0.1490 *

Pluto 19081-01-01 14:24 G 8690252.92 8690253.10 8690253.31 0.0073 0.0015

Jupiter 19081-01-20 00:28 G 8690271.39 8690271.52 8690271.65 0.0534 0.0274

Neptune 19081-02-20 02:24 G 8690302.51 8690302.60 8690302.72 0.0088 0.0064

Pluto 19081-03-30 17:16 G 8690341.02 8690341.22 8690341.41 0.0073 0.0002

Saturn 19081-04-16 11:16 G 8690357.86 8690357.97 8690358.09 0.0282 0.0189

Neptune 19081-05-19 04:33 G 8690390.58 8690390.69 8690390.81 0.0088 0.0056

Mars 19081-05-23 07:40 G 8690394.75 8690394.82 8690394.90 0.1601 0.1348

Pluto 19081-06-26 19:26 G 8690429.13 8690429.31 8690429.51 0.0073 0.0017

Saturn 19081-07-14 04:04 G 8690446.52 8690446.67 8690446.83 0.0281 0.0071

Neptune 19081-08-15 06:28 G 8690478.65 8690478.77 8690478.90 0.0088 0.0049

Pluto 19081-09-22 21:50 G 8690517.24 8690517.41 8690517.59 0.0073 0.0032

Saturn 19081-10-10 20:24 G 8690535.20 8690535.35 8690535.51 0.0281 0.0045

Neptune 19081-11-11 08:09 G 8690566.72 8690566.84 8690566.99 0.0088 0.0042

Pluto 19081-12-20 00:28 G 8690605.37 8690605.52 8690605.66 0.0073 0.0047

Saturn 19082-01-07 12:14 G 8690623.89 8690624.01 8690624.15 0.0281 0.0157

Neptune 19082-02-07 10:19 G 8690654.79 8690654.93 8690655.08 0.0088 0.0034

Pluto 19082-03-18 02:09 G 8690693.52 8690693.59 8690693.71 0.0073 0.0063

Saturn 19082-04-06 03:50 G 8690712.62 8690712.66 8690712.71 0.0281 0.0266

Venus 19082-04-08 01:26 G 8690714.45 8690714.56 8690714.68 0.3691 0.0802

Neptune 19082-05-06 12:14 G 8690742.87 8690743.01 8690743.16 0.0088 0.0027

Neptune 19082-08-02 14:24 G 8690830.95 8690831.10 8690831.25 0.0088 0.0019

Neptune 19082-10-29 16:19 G 8690919.03 8690919.18 8690919.33 0.0088 0.0011

Neptune 19083-01-25 18:14 G 8691007.11 8691007.26 8691007.42 0.0088 0.0004

Neptune 19083-04-23 20:09 G 8691095.19 8691095.34 8691095.50 0.0088 0.0005

Mars 19083-04-29 02:52 G 8691100.58 8691100.62 8691100.65 0.1592 0.1531

Neptune 19083-07-20 22:19 G 8691183.27 8691183.43 8691183.58 0.0088 0.0011

Neptune 19083-10-17 00:14 G 8691271.36 8691271.51 8691271.66 0.0088 0.0019

Venus 19083-10-20 00:14 G 8691274.38 8691274.51 8691274.63 0.3680 0.0676

Neptune 19084-01-13 02:09 G 8691359.45 8691359.59 8691359.74 0.0088 0.0027

Neptune 19084-04-10 04:04 G 8691447.54 8691447.67 8691447.82 0.0088 0.0035

Neptune 19084-07-07 06:14 G 8691535.63 8691535.76 8691535.90 0.0088 0.0042

Neptune 19084-10-03 08:24 G 8691623.72 8691623.85 8691623.98 0.0088 0.0050

Neptune 19084-12-30 10:19 G 8691711.82 8691711.93 8691712.05 0.0088 0.0058

Neptune 19085-03-28 12:14 G 8691799.92 8691800.01 8691800.13 0.0088 0.0066

Neptune 19085-06-24 14:09 G 8691888.03 8691888.09 8691888.19 0.0088 0.0074

Neptune 19085-09-20 16:48 G 8691976.14 8691976.20 8691976.25 0.0088 0.0081

Jupiter 19086-06-09 10:48 G 8692237.83 8692237.95 8692238.08 0.0497 0.0265

Jupiter 19086-09-06 22:19 G 8692327.32 8692327.43 8692327.55 0.0494 0.0305

Venus 19087-10-22 20:24 G 8692738.26 8692738.35 8692738.44 0.3692 0.2295

Mars 19088-01-18 20:38 G 8692826.23 8692826.36 8692826.49 0.1943 0.0324

Venus 19089-05-04 22:19 G 8693298.32 8693298.43 8693298.55 0.3679 0.1285

Mars 19092-09-18 09:50 G 8694530.79 8694530.91 8694531.04 0.1594 0.0824

Jupiter 19092-11-08 00:57 G 8694581.39 8694581.54 8694581.69 0.0533 0.0090

Venus 19094-11-18 21:07 G 8695322.33 8695322.38 8695322.44 0.3679 0.3318

Saturn 19096-04-24 00:14 G 8695844.41 8695844.51 8695844.62 0.0277 0.0198

Saturn 19096-07-21 14:38 G 8695932.97 8695933.11 8695933.25 0.0277 0.0096

Saturn 19096-10-18 05:02 G 8696021.56 8696021.71 8696021.87 0.0277 0.0012

Saturn 19097-01-14 20:09 G 8696110.20 8696110.34 8696110.48 0.0278 0.0118

Saturn 19097-04-13 11:16 G 8696198.89 8696198.97 8696199.06 0.0278 0.0228

Mars 19097-06-10 00:43 G 8696256.42 8696256.53 8696256.65 0.1939 0.0891

Jupiter 19098-03-28 13:40 G 8696547.99 8696548.07 8696548.16 0.0498 0.0405

Moon 19098-05-23 22:33 G 8696604.34 8696604.44 8696604.55 0.2645 0.1651

Earth 19098-05-23 23:45 G 8696604.38 8696604.49 8696604.59 0.2649 0.1583 *

Jupiter 19098-06-26 00:57 G 8696637.40 8696637.54 8696637.68 0.0495 0.0162

Moon 19100-11-22 01:26 G 8697516.47 8697516.56 8697516.65 0.2685 0.1873

Earth 19100-11-22 02:24 G 8697516.51 8697516.60 8697516.69 0.2683 0.1805 *

Mars 19102-02-09 17:02 G 8697961.07 8697961.21 8697961.36 0.1596 0.0130

Jupiter 19104-08-28 00:00 G 8698891.35 8698891.50 8698891.66 0.0532 0.0115

Jupiter 19110-04-15 03:50 G 8700947.52 8700947.66 8700947.81 0.0496 0.0026

Saturn 19110-09-04 13:55 G 8701089.98 8701090.08 8701090.19 0.0282 0.0212

Saturn 19110-12-02 06:57 G 8701178.64 8701178.79 8701178.94 0.0282 0.0092

Saturn 19111-02-28 23:31 G 8701267.32 8701267.48 8701267.63 0.0282 0.0025

Moon 19111-05-27 21:07 G 8701355.25 8701355.38 8701355.51 0.2650 0.0109

Earth 19111-05-27 22:04 G 8701355.29 8701355.42 8701355.55 0.2649 0.0318 *

Saturn 19111-05-28 15:21 G 8701356.01 8701356.14 8701356.28 0.0281 0.0137

Mars 19111-07-03 00:28 G 8701391.39 8701391.52 8701391.65 0.1598 0.0567

Saturn 19111-08-25 06:57 G 8701444.72 8701444.79 8701444.87 0.0281 0.0247

Uranus 19111-12-22 15:21 G 8701564.11 8701564.14 8701564.19 0.0145 0.0140

Uranus 19112-03-19 20:52 G 8701652.28 8701652.37 8701652.47 0.0145 0.0116

Uranus 19112-06-16 02:09 G 8701740.48 8701740.59 8701740.72 0.0145 0.0092

Uranus 19112-09-12 07:55 G 8701828.69 8701828.83 8701828.97 0.0145 0.0068

Uranus 19112-12-09 13:26 G 8701916.91 8701917.06 8701917.21 0.0145 0.0044

Uranus 19113-03-07 18:57 G 8702005.13 8702005.29 8702005.45 0.0145 0.0019

Uranus 19113-06-04 00:28 G 8702093.36 8702093.52 8702093.68 0.0145 0.0006

Uranus 19113-08-31 06:14 G 8702181.60 8702181.76 8702181.91 0.0145 0.0031

Moon 19113-11-24 23:16 G 8702267.34 8702267.47 8702267.59 0.2687 0.0159

Earth 19113-11-25 00:00 G 8702267.37 8702267.50 8702267.62 0.2683 0.0053 *

Uranus 19113-11-27 11:45 G 8702269.85 8702269.99 8702270.14 0.0145 0.0056

Uranus 19114-02-23 17:31 G 8702358.10 8702358.23 8702358.37 0.0145 0.0081

Uranus 19114-05-22 23:16 G 8702446.37 8702446.47 8702446.58 0.0145 0.0106

Uranus 19114-08-19 05:02 G 8702534.65 8702534.71 8702534.78 0.0145 0.0132

Jupiter 19116-06-16 00:00 G 8703201.38 8703201.50 8703201.63 0.0531 0.0306

Jupiter 19116-09-13 21:07 G 8703291.30 8703291.38 8703291.46 0.0534 0.0442

Mars 19118-02-27 16:33 G 8703823.12 8703823.19 8703823.25 0.1946 0.1647

Mars 19120-11-22 07:55 G 8704821.75 8704821.83 8704821.92 0.1601 0.1251

Jupiter 19122-02-01 06:57 G 8705257.64 8705257.79 8705257.93 0.0496 0.0115

Venus 19122-03-31 13:26 G 8705316.02 8705316.06 8705316.09 0.3690 0.3520

Jupiter 19122-05-01 18:43 G 8705347.23 8705347.28 8705347.33 0.0493 0.0461

Moon 19124-05-29 19:26 G 8706106.24 8706106.31 8706106.39 0.2655 0.2136

Earth 19124-05-29 20:09 G 8706106.27 8706106.34 8706106.42 0.2649 0.2145 *

Saturn 19125-09-12 01:55 G 8706576.50 8706576.58 8706576.66 0.0277 0.0227

Saturn 19125-12-09 16:04 G 8706665.03 8706665.17 8706665.30 0.0277 0.0126

Saturn 19126-03-08 06:28 G 8706753.62 8706753.77 8706753.92 0.0277 0.0022

Saturn 19126-06-04 21:07 G 8706842.24 8706842.38 8706842.53 0.0277 0.0085

Saturn 19126-09-01 12:14 G 8706930.91 8706931.01 8706931.13 0.0278 0.0194

Earth 19126-11-27 21:36 G 8707018.31 8707018.40 8707018.49 0.2682 0.1877

Moon 19126-11-27 21:50 G 8707018.32 8707018.41 8707018.49 0.2690 0.1966 *

Mars 19127-07-20 20:52 G 8707253.25 8707253.37 8707253.50 0.1942 0.0463

Venus 19127-10-15 09:07 G 8707339.78 8707339.88 8707339.98 0.3691 0.1855

Jupiter 19128-04-04 00:14 G 8707511.46 8707511.51 8707511.57 0.0531 0.0492

Jupiter 19128-07-02 21:50 G 8707601.28 8707601.41 8707601.55 0.0534 0.0264

Mars 19132-03-20 10:04 G 8708957.80 8708957.92 8708958.04 0.1594 0.0924

Venus 19133-04-30 04:48 G 8709363.58 8709363.70 8709363.81 0.3691 0.0282

Jupiter 19133-11-20 09:50 G 8709567.79 8709567.91 8709568.04 0.0497 0.0252

Jupiter 19134-02-17 21:21 G 8709657.28 8709657.39 8709657.51 0.0494 0.0319

Venus 19134-11-11 01:26 G 8709923.45 8709923.56 8709923.67 0.3680 0.1933

Mars 19136-12-10 00:43 G 8710683.42 8710683.53 8710683.65 0.1939 0.0783

Venus 19138-11-14 00:00 G 8711387.39 8711387.50 8711387.60 0.3691 0.1290

Saturn 19140-01-22 12:57 G 8711821.98 8711822.04 8711822.11 0.0282 0.0257

Saturn 19140-04-20 06:00 G 8711910.62 8711910.75 8711910.89 0.0282 0.0137

Jupiter 19140-04-20 23:02 G 8711911.31 8711911.46 8711911.61 0.0533 0.0090

Venus 19140-05-26 23:31 G 8711947.35 8711947.48 8711947.60 0.3679 0.0142

Saturn 19140-07-17 22:48 G 8711999.29 8711999.45 8711999.60 0.0281 0.0021

Saturn 19140-10-14 14:52 G 8712087.97 8712088.12 8712088.27 0.0281 0.0094

Saturn 19141-01-11 06:43 G 8712176.67 8712176.78 8712176.88 0.0281 0.0205

Mars 19141-08-10 17:16 G 8712388.08 8712388.22 8712388.37 0.1596 0.0230

Moon 19144-05-25 04:04 G 8713406.56 8713406.67 8713406.79 0.2645 0.1359

Earth 19144-05-25 05:02 G 8713406.60 8713406.71 8713406.83 0.2649 0.1185 *

Venus 19144-05-29 18:57 G 8713411.21 8713411.29 8713411.36 0.3692 0.2765

Jupiter 19145-09-08 12:28 G 8713877.94 8713878.02 8713878.11 0.0497 0.0397

Jupiter 19145-12-06 23:31 G 8713967.35 8713967.48 8713967.62 0.0495 0.0170

Venus 19145-12-10 21:50 G 8713971.30 8713971.41 8713971.52 0.3679 0.1911

Moon 19146-11-23 06:43 G 8714318.68 8714318.78 8714318.88 0.2685 0.1623

Earth 19146-11-23 07:40 G 8714318.72 8714318.82 8714318.93 0.2683 0.1439 *

Mars 19151-01-01 00:43 G 8715818.40 8715818.53 8715818.67 0.1599 0.0466

Jupiter 19152-02-07 23:31 G 8716221.33 8716221.48 8716221.63 0.0532 0.0095

Uranus 19154-04-10 19:12 G 8717014.27 8717014.30 8717014.36 0.0133 0.0126

Uranus 19154-07-07 23:45 G 8717102.41 8717102.49 8717102.59 0.0133 0.0107

Uranus 19154-10-04 04:19 G 8717190.57 8717190.68 8717190.81 0.0133 0.0088

Uranus 19154-12-31 08:52 G 8717278.74 8717278.87 8717279.01 0.0133 0.0069

Saturn 19155-01-30 02:38 G 8717308.57 8717308.61 8717308.67 0.0277 0.0261

Uranus 19155-03-29 13:12 G 8717366.91 8717367.05 8717367.20 0.0133 0.0050

Saturn 19155-04-28 16:48 G 8717397.08 8717397.20 8717397.33 0.0277 0.0160

Uranus 19155-06-25 17:45 G 8717455.09 8717455.24 8717455.39 0.0133 0.0031

Saturn 19155-07-26 07:12 G 8717485.66 8717485.80 8717485.95 0.0277 0.0057

Uranus 19155-09-21 22:04 G 8717543.27 8717543.42 8717543.58 0.0133 0.0013

Saturn 19155-10-22 21:50 G 8717574.27 8717574.41 8717574.57 0.0278 0.0050

Uranus 19155-12-19 02:24 G 8717631.45 8717631.60 8717631.76 0.0133 0.0006

Saturn 19156-01-19 12:57 G 8717662.92 8717663.04 8717663.17 0.0278 0.0158

Uranus 19156-03-16 06:43 G 8717719.63 8717719.78 8717719.93 0.0133 0.0024

Saturn 19156-04-17 04:19 G 8717751.65 8717751.68 8717751.72 0.0278 0.0270

Uranus 19156-06-12 10:48 G 8717807.81 8717807.95 8717808.10 0.0133 0.0042

Uranus 19156-09-08 15:07 G 8717895.99 8717896.13 8717896.27 0.0133 0.0060

Uranus 19156-12-05 19:12 G 8717984.18 8717984.30 8717984.43 0.0133 0.0078

Uranus 19157-03-03 23:16 G 8718072.37 8718072.47 8718072.58 0.0133 0.0096

Moon 19157-05-28 02:38 G 8718157.48 8718157.61 8718157.73 0.2652 0.0648

Earth 19157-05-28 03:36 G 8718157.52 8718157.65 8718157.77 0.2649 0.0704 *

Uranus 19157-05-31 03:21 G 8718160.57 8718160.64 8718160.73 0.0133 0.0114

Uranus 19157-08-27 07:26 G 8718248.80 8718248.81 8718248.84 0.0133 0.0132

Mars 19157-08-28 16:48 G 8718250.15 8718250.20 8718250.25 0.1946 0.1785

Jupiter 19157-09-25 02:24 G 8718277.45 8718277.60 8718277.74 0.0495 0.0028

Moon 19159-11-26 04:48 G 8719069.57 8719069.70 8719069.82 0.2688 0.0385

Earth 19159-11-26 05:16 G 8719069.59 8719069.72 8719069.84 0.2683 0.0380 *

Mars 19160-05-23 08:24 G 8719248.75 8719248.85 8719248.94 0.1601 0.1148

Neptune 19163-08-30 15:07 G 8720443.13 8720443.13 8720443.16 0.0089 0.0089

Neptune 19163-11-26 17:31 G 8720531.18 8720531.23 8720531.31 0.0089 0.0081

Jupiter 19163-11-26 22:33 G 8720531.31 8720531.44 8720531.57 0.0531 0.0298 *

Neptune 19164-02-22 20:09 G 8720619.25 8720619.34 8720619.44 0.0089 0.0072

Jupiter 19164-02-24 19:40 G 8720621.24 8720621.32 8720621.40 0.0534 0.0448

Neptune 19164-05-20 22:19 G 8720707.33 8720707.43 8720707.56 0.0089 0.0064

Neptune 19164-08-17 00:57 G 8720795.41 8720795.54 8720795.67 0.0089 0.0055

Neptune 19164-11-13 03:07 G 8720883.50 8720883.63 8720883.78 0.0089 0.0047

Neptune 19165-02-09 05:45 G 8720971.59 8720971.74 8720971.89 0.0089 0.0038

Neptune 19165-05-08 07:55 G 8721059.68 8721059.83 8721059.99 0.0089 0.0030

Neptune 19165-08-04 10:19 G 8721147.78 8721147.93 8721148.09 0.0089 0.0021

Neptune 19165-10-31 12:43 G 8721235.87 8721236.03 8721236.19 0.0089 0.0013

Neptune 19166-01-27 15:07 G 8721323.97 8721324.13 8721324.29 0.0089 0.0004

Neptune 19166-04-25 17:16 G 8721412.06 8721412.22 8721412.38 0.0089 0.0005

Neptune 19166-07-22 19:40 G 8721500.16 8721500.32 8721500.48 0.0089 0.0012

Neptune 19166-10-18 21:50 G 8721588.26 8721588.41 8721588.57 0.0089 0.0021

Neptune 19167-01-15 00:14 G 8721676.36 8721676.51 8721676.66 0.0089 0.0029

Mars 19167-01-18 21:07 G 8721680.26 8721680.38 8721680.50 0.1942 0.0578

Neptune 19167-04-13 02:09 G 8721764.46 8721764.59 8721764.75 0.0089 0.0037

Neptune 19167-07-10 04:19 G 8721852.56 8721852.68 8721852.83 0.0089 0.0046

Neptune 19167-10-06 06:28 G 8721940.66 8721940.77 8721940.91 0.0089 0.0054

Neptune 19168-01-02 08:52 G 8722028.76 8722028.87 8722028.99 0.0089 0.0061

Neptune 19168-03-30 11:02 G 8722116.87 8722116.96 8722117.07 0.0089 0.0069

Neptune 19168-06-26 13:12 G 8722204.98 8722205.05 8722205.14 0.0089 0.0077

Neptune 19168-09-22 15:07 G 8722293.11 8722293.13 8722293.20 0.0089 0.0086

Saturn 19169-06-10 15:21 G 8722554.14 8722554.14 8722554.15 0.0283 0.0282

Jupiter 19169-07-14 05:16 G 8722587.58 8722587.72 8722587.86 0.0497 0.0111

Saturn 19169-09-07 08:24 G 8722642.72 8722642.85 8722642.99 0.0282 0.0161

Jupiter 19169-10-11 17:02 G 8722677.17 8722677.21 8722677.26 0.0494 0.0465

Saturn 19169-12-05 01:12 G 8722731.39 8722731.55 8722731.71 0.0282 0.0043

Saturn 19170-03-03 17:31 G 8722820.08 8722820.23 8722820.38 0.0282 0.0072

Moon 19170-05-31 00:57 G 8722908.49 8722908.54 8722908.60 0.2655 0.2387

Earth 19170-05-31 01:40 G 8722908.53 8722908.57 8722908.60 0.2649 0.2529 *

Saturn 19170-05-31 09:21 G 8722908.78 8722908.89 8722909.01 0.0281 0.0184

Mars 19171-09-19 10:33 G 8723384.83 8723384.94 8723385.05 0.1594 0.1034

Moon 19172-11-28 03:07 G 8723820.56 8723820.63 8723820.70 0.2689 0.2216

Earth 19172-11-28 03:07 G 8723820.56 8723820.63 8723820.69 0.2682 0.2261 *

Jupiter 19175-09-14 22:33 G 8724841.38 8724841.44 8724841.49 0.0530 0.0491

Jupiter 19175-12-13 19:55 G 8724931.20 8724931.33 8724931.47 0.0534 0.0265

Mars 19176-06-10 01:12 G 8725110.43 8725110.55 8725110.67 0.1939 0.0642

Venus 19178-11-05 12:00 G 8725988.93 8725989.00 8725989.07 0.3690 0.2989

Mars 19181-02-08 17:31 G 8726815.09 8726815.23 8726815.37 0.1596 0.0328

Jupiter	19181-05-02 08:24 G	8726897.72	8726897.85	8726897.98	0.0497	0.0248	
Jupiter	19181-07-30 19:55 G	8726987.22	8726987.33	8726987.44	0.0494	0.0324	
Venus	19184-05-21 07:40 G	8728012.71	8728012.82	8728012.93	0.3691	0.1345	
Saturn	19184-09-14 18:28 G	8728129.17	8728129.27	8728129.38	0.0277	0.0189	
Saturn	19184-12-12 08:52 G	8728217.72	8728217.87	8728218.01	0.0277	0.0087	
Saturn	19185-03-10 23:16 G	8728306.32	8728306.47	8728306.62	0.0277	0.0018	
Saturn	19185-06-07 14:09 G	8728394.96	8728395.09	8728395.23	0.0278	0.0125	
Saturn	19185-09-04 05:16 G	8728483.65	8728483.72	8728483.81	0.0278	0.0236	
Mars	19185-10-31 04:48 G	8728540.68	8728540.70	8728540.73	0.1934	0.1897	
Venus	19185-12-02 02:52 G	8728572.56	8728572.62	8728572.68	0.3680	0.3156	
Jupiter	19187-10-01 20:38 G	8729241.21	8729241.36	8729241.51	0.0533	0.0082	
Venus	19189-12-05 03:07 G	8730036.52	8730036.63	8730036.75	0.3691	0.0252	
Moon	19190-05-26 09:36 G	8730208.78	8730208.90	8730209.03	0.2646	0.0888	
Earth	19190-05-26 10:48 G	8730208.82	8730208.95	8730209.07	0.2649	0.0788	*
Mars	19190-07-02 00:57 G	8730245.40	8730245.54	8730245.68	0.1598	0.0368	
Venus	19191-06-18 00:28 G	8730596.41	8730596.52	8730596.64	0.3680	0.1360	
Moon	19192-11-23 12:00 G	8731120.89	8731121.00	8731121.12	0.2685	0.1161	
Earth	19192-11-23 12:57 G	8731120.93	8731121.04	8731121.16	0.2683	0.1070	*
Jupiter	19193-02-18 11:31 G	8731207.89	8731207.98	8731208.07	0.0498	0.0383	
Jupiter	19193-05-18 22:48 G	8731297.31	8731297.45	8731297.58	0.0495	0.0184	
Venus	19195-06-20 22:19 G	8732060.33	8732060.43	8732060.53	0.3692	0.1764	
Uranus	19196-01-11 23:02 G	8732265.41	8732265.46	8732265.53	0.0146	0.0133	
Uranus	19196-04-09 04:33 G	8732353.59	8732353.69	8732353.80	0.0146	0.0109	
Uranus	19196-07-06 09:50 G	8732441.79	8732441.91	8732442.05	0.0146	0.0085	
Uranus	19196-10-02 15:21 G	8732530.00	8732530.14	8732530.29	0.0145	0.0061	
Uranus	19196-12-29 20:52 G	8732618.22	8732618.37	8732618.53	0.0145	0.0036	
Venus	19196-12-31 22:48 G	8732620.32	8732620.45	8732620.57	0.3679	0.0566	
Mars	19197-02-26 16:48 G	8732677.17	8732677.20	8732677.23	0.1946	0.1890	
Uranus	19197-03-28 02:38 G	8732706.45	8732706.61	8732706.77	0.0145	0.0012	
Uranus	19197-06-24 08:09 G	8732794.68	8732794.84	8732795.00	0.0145	0.0013	

Uranus 19197-09-20 13:40 G 8732882.92 8732883.07 8732883.23 0.0145 0.0039

Uranus 19197-12-17 19:26 G 8732971.17 8732971.31 8732971.46 0.0145 0.0064

Uranus 19198-03-16 01:12 G 8733059.43 8733059.55 8733059.68 0.0145 0.0089

Uranus 19198-06-12 06:57 G 8733147.70 8733147.79 8733147.89 0.0145 0.0114

Uranus 19198-09-08 12:57 G 8733236.00 8733236.04 8733236.08 0.0145 0.0140

Saturn 19199-01-25 07:12 G 8733374.70 8733374.80 8733374.92 0.0282 0.0208

Saturn 19199-04-24 00:14 G 8733463.36 8733463.51 8733463.66 0.0282 0.0088

Jupiter 19199-07-20 21:36 G 8733551.25 8733551.40 8733551.55 0.0532 0.0094

Saturn 19199-07-21 16:48 G 8733552.04 8733552.20 8733552.35 0.0281 0.0028

Saturn 19199-10-18 08:38 G 8733640.73 8733640.86 8733641.00 0.0281 0.0141

Mars 19199-11-22 08:24 G 8733675.75 8733675.85 8733675.96 0.1601 0.1053

Saturn 19200-01-15 00:28 G 8733729.45 8733729.52 8733729.58 0.0281 0.0250

Venus 19201-01-03 17:16 G 8734084.16 8734084.22 8734084.27 0.3692 0.3229

Venus 19202-07-17 21:07 G 8734644.29 8734644.38 8734644.48 0.3679 0.2555

Moon 19203-05-29 08:09 G 8734959.72 8734959.84 8734959.96 0.2653 0.0918

Earth 19203-05-29 09:07 G 8734959.76 8734959.88 8734959.99 0.2649 0.1096 *

Jupiter 19205-03-07 01:12 G 8735607.40 8735607.55 8735607.69 0.0495 0.0037

Moon 19205-11-26 10:19 G 8735871.81 8735871.93 8735872.05 0.2689 0.0665

Earth 19205-11-26 10:33 G 8735871.82 8735871.94 8735872.06 0.2682 0.0761 *

Mars 19206-07-19 21:21 G 8736107.27 8736107.39 8736107.51 0.1943 0.0707

Mars 19211-03-20 10:48 G 8737811.85 8737811.95 8737812.05 0.1594 0.1137

Jupiter 19211-05-08 22:04 G 8737861.29 8737861.42 8737861.55 0.0531 0.0278

Jupiter 19211-08-06 19:12 G 8737951.23 8737951.30 8737951.37 0.0535 0.0471

Saturn 19214-02-01 18:57 G 8738861.21 8738861.29 8738861.38 0.0277 0.0226

Saturn 19214-05-01 09:07 G 8738949.75 8738949.88 8738950.01 0.0277 0.0125

Saturn 19214-07-28 23:31 G 8739038.33 8739038.48 8739038.63 0.0277 0.0021

Saturn 19214-10-25 14:24 G 8739126.95 8739127.10 8739127.24 0.0278 0.0087

Saturn 19215-01-22 05:31 G 8739215.62 8739215.73 8739215.84 0.0278 0.0196

Mars 19215-12-10 01:26 G 8739537.44 8739537.56 8739537.69 0.1939 0.0510

Jupiter 19216-12-24 04:04 G 8739917.52 8739917.67 8739917.81 0.0496 0.0105

Jupiter 19217-03-23 15:50 G 8740007.12 8740007.16 8740007.20 0.0493 0.0471

Earth 19218-11-29 08:24 G 8740622.83 8740622.85 8740622.87 0.2682 0.2642

Mars 19220-08-09 18:00 G 8741242.11 8741242.25 8741242.39 0.1596 0.0435

Jupiter 19223-02-24 21:07 G 8742171.32 8742171.38 8742171.45 0.0530 0.0480

Moon 19223-05-24 16:48 G 8742260.15 8742260.20 8742260.25 0.2643 0.2457

Earth 19223-05-24 17:31 G 8742260.17 8742260.23 8742260.29 0.2649 0.2316 *

Jupiter 19223-05-25 18:43 G 8742261.15 8742261.28 8742261.41 0.0533 0.0274

Mars 19225-05-01 05:02 G 8742967.66 8742967.71 8742967.76 0.1935 0.1775

Moon 19225-11-21 20:09 G 8743172.32 8743172.34 8743172.35 0.2682 0.2653

Earth 19225-11-21 21:07 G 8743172.33 8743172.38 8743172.42 0.2683 0.2478 *

Saturn 19228-06-13 09:21 G 8744106.80 8744106.89 8744106.98 0.0283 0.0235

Saturn 19228-09-10 02:24 G 8744195.45 8744195.60 8744195.74 0.0282 0.0115

Jupiter 19228-10-12 06:57 G 8744227.66 8744227.79 8744227.91 0.0497 0.0243

Saturn 19228-12-07 18:57 G 8744284.13 8744284.29 8744284.45 0.0282 0.0003

Jupiter 19229-01-09 18:28 G 8744317.16 8744317.27 8744317.38 0.0494 0.0330

Saturn 19229-03-06 11:02 G 8744372.82 8744372.96 8744373.11 0.0282 0.0117

Saturn 19229-06-03 02:52 G 8744461.53 8744461.62 8744461.71 0.0281 0.0227

Mars 19229-12-31 01:12 G 8744672.41 8744672.55 8744672.69 0.1598 0.0266

Jupiter 19235-03-13 18:57 G 8746571.14 8746571.29 8746571.45 0.0533 0.0089

Venus 19235-06-12 10:33 G 8746661.86 8746661.94 8746662.03 0.3690 0.2463

Moon 19236-05-26 15:07 G 8747011.00 8747011.13 8747011.26 0.2648 0.0519

Earth 19236-05-26 16:04 G 8747011.04 8747011.17 8747011.30 0.2649 0.0394 *

Uranus 19238-05-01 02:52 G 8747715.57 8747715.62 8747715.70 0.0133 0.0119

Uranus 19238-07-28 07:26 G 8747803.72 8747803.81 8747803.93 0.0133 0.0100

Uranus 19238-10-24 12:00 G 8747891.88 8747892.00 8747892.13 0.0133 0.0081

Moon 19238-11-24 17:31 G 8747923.11 8747923.23 8747923.35 0.2686 0.0824

Earth 19238-11-24 18:14 G 8747923.14 8747923.26 8747923.39 0.2683 0.0703 *

Uranus 19239-01-20 16:33 G 8747980.06 8747980.19 8747980.33 0.0133 0.0062

Uranus 19239-04-18 20:52 G 8748068.23 8748068.37 8748068.52 0.0133 0.0043

Mars 19239-05-23 08:38 G 8748102.75 8748102.86 8748102.98 0.1601 0.0953

Uranus 19239-07-16 01:26 G 8748156.41 8748156.56 8748156.71 0.0133 0.0024

Uranus 19239-10-12 05:45 G 8748244.58 8748244.74 8748244.89 0.0133 0.0006

Uranus 19240-01-08 10:04 G 8748332.76 8748332.92 8748333.07 0.0133 0.0013

Uranus 19240-04-05 14:09 G 8748420.95 8748421.09 8748421.25 0.0133 0.0031

Uranus 19240-07-02 18:28 G 8748509.13 8748509.27 8748509.42 0.0133 0.0049

Jupiter 19240-07-31 10:04 G 8748537.83 8748537.92 8748538.01 0.0498 0.0378

Uranus 19240-09-28 22:33 G 8748597.32 8748597.44 8748597.58 0.0133 0.0067

Jupiter 19240-10-28 21:21 G 8748627.25 8748627.39 8748627.52 0.0495 0.0190

Uranus 19240-12-26 02:38 G 8748685.51 8748685.61 8748685.74 0.0133 0.0086

Venus 19240-12-26 06:14 G 8748685.65 8748685.76 8748685.88 0.3691 0.0834 *

Uranus 19241-03-24 06:43 G 8748773.70 8748773.78 8748773.89 0.0133 0.0104

Pluto 19241-04-11 00:28 G 8748791.47 8748791.52 8748791.58 0.0070 0.0063

Uranus 19241-06-20 11:02 G 8748861.90 8748861.96 8748862.03 0.0133 0.0121

Pluto 19241-07-08 00:57 G 8748879.47 8748879.54 8748879.63 0.0070 0.0055

Pluto 19241-10-04 01:55 G 8748967.48 8748967.58 8748967.68 0.0071 0.0045

Pluto 19241-12-31 02:24 G 8749055.49 8749055.60 8749055.72 0.0071 0.0036

Pluto 19242-03-29 02:52 G 8749143.51 8749143.62 8749143.75 0.0071 0.0027

Pluto 19242-06-25 03:36 G 8749231.53 8749231.65 8749231.78 0.0071 0.0017

Venus 19242-07-09 01:55 G 8749245.50 8749245.58 8749245.67 0.3680 0.2600

Pluto 19242-09-21 04:19 G 8749319.55 8749319.68 8749319.81 0.0071 0.0007

Pluto 19242-12-18 05:02 G 8749407.58 8749407.71 8749407.84 0.0071 0.0002

Pluto 19243-03-16 05:31 G 8749495.61 8749495.73 8749495.87 0.0071 0.0012

Pluto 19243-06-12 06:14 G 8749583.64 8749583.76 8749583.89 0.0071 0.0022

Saturn 19243-06-21 20:52 G 8749593.32 8749593.37 8749593.43 0.0276 0.0253

Pluto 19243-09-08 06:57 G 8749671.67 8749671.79 8749671.91 0.0071 0.0031

Saturn 19243-09-18 10:48 G 8749681.83 8749681.95 8749682.08 0.0277 0.0153

Pluto 19243-12-05 07:26 G 8749759.71 8749759.81 8749759.93 0.0072 0.0042

Saturn 19243-12-16 01:12 G 8749770.40 8749770.55 8749770.70 0.0277 0.0050

Pluto 19244-03-02 08:24 G 8749847.76 8749847.85 8749847.94 0.0072 0.0051

Saturn 19244-03-13 15:50 G 8749859.01 8749859.16 8749859.31 0.0277 0.0055

Pluto 19244-05-29 08:52 G 8749935.81 8749935.87 8749935.94 0.0072 0.0061

Saturn 19244-06-10 06:43 G 8749947.66 8749947.78 8749947.91 0.0277 0.0164

Pluto 19244-08-25 09:36 G 8750023.89 8750023.90 8750023.92 0.0072 0.0071

Saturn 19244-09-06 22:04 G 8750036.41 8750036.42 8750036.44 0.0278 0.0275

Neptune 19245-02-26 19:40 G 8750209.29 8750209.32 8750209.38 0.0088 0.0084

Neptune 19245-05-25 21:50 G 8750297.34 8750297.41 8750297.48 0.0088 0.0076

Neptune 19245-08-21 23:31 G 8750385.40 8750385.48 8750385.58 0.0088 0.0069

Neptune 19245-11-18 01:26 G 8750473.46 8750473.56 8750473.68 0.0088 0.0062

Mars 19246-01-17 21:36 G 8750534.28 8750534.40 8750534.51 0.1943 0.0834

Neptune 19246-02-14 03:36 G 8750561.53 8750561.65 8750561.77 0.0088 0.0054

Neptune 19246-05-13 05:16 G 8750649.60 8750649.72 8750649.86 0.0088 0.0047

Venus 19246-07-12 01:40 G 8750709.45 8750709.57 8750709.68 0.3691 0.0739

Neptune 19246-08-09 07:12 G 8750737.67 8750737.80 8750737.94 0.0088 0.0040

Neptune 19246-11-05 09:07 G 8750825.75 8750825.88 8750826.03 0.0088 0.0032

Jupiter 19246-12-30 19:26 G 8750881.16 8750881.31 8750881.46 0.0532 0.0098

Neptune 19247-02-01 11:02 G 8750913.82 8750913.96 8750914.12 0.0088 0.0025

Neptune 19247-04-30 13:12 G 8751001.90 8751002.05 8751002.20 0.0088 0.0017

Neptune 19247-07-27 15:07 G 8751089.98 8751090.13 8751090.29 0.0088 0.0010

Neptune 19247-10-23 17:02 G 8751178.06 8751178.21 8751178.37 0.0088 0.0003

Neptune 19248-01-19 19:12 G 8751266.14 8751266.30 8751266.45 0.0088 0.0006

Venus 19248-01-22 23:45 G 8751269.37 8751269.49 8751269.61 0.3680 0.0765

Neptune 19248-04-16 21:07 G 8751354.23 8751354.38 8751354.53 0.0088 0.0013

Neptune 19248-07-13 23:02 G 8751442.31 8751442.46 8751442.61 0.0088 0.0021

Neptune 19248-10-10 00:57 G 8751530.40 8751530.54 8751530.69 0.0088 0.0029

Neptune 19249-01-06 03:07 G 8751618.49 8751618.63 8751618.77 0.0088 0.0036

Neptune 19249-04-04 05:02 G 8751706.58 8751706.71 8751706.85 0.0088 0.0044

Moon 19249-05-29 13:26 G 8751761.95 8751762.06 8751762.17 0.2653 0.1403

Earth 19249-05-29 14:24 G 8751762.00 8751762.10 8751762.21 0.2649 0.1476 *

Neptune 19249-07-01 06:57 G 8751794.67 8751794.79 8751794.93 0.0088 0.0052

Neptune 19249-09-27 08:52 G 8751882.77 8751882.87 8751883.00 0.0088 0.0060

Neptune 19249-12-24 10:48 G 8751970.87 8751970.95 8751971.07 0.0088 0.0068

Neptune 19250-03-22 13:12 G 8752058.98 8752059.05 8752059.14 0.0088 0.0075

Neptune 19250-06-18 15:21 G 8752147.10 8752147.14 8752147.19 0.0088 0.0083

Mars 19250-09-18 11:02 G 8752238.87 8752238.96 8752239.05 0.1594 0.1241

Moon 19251-11-27 15:36 G 8752674.04 8752674.15 8752674.27 0.2689 0.1160

Earth 19251-11-27 15:50 G 8752674.05 8752674.16 8752674.28 0.2682 0.1145 *

Venus 19252-01-25 20:38 G 8752733.27 8752733.36 8752733.45 0.3692 0.2243

Jupiter 19252-08-17 00:14 G 8752937.36 8752937.51 8752937.66 0.0496 0.0052

Venus 19253-08-07 22:04 G 8753293.30 8753293.42 8753293.54 0.3679 0.1172

Mars 19255-06-10 01:26 G 8753964.44 8753964.56 8753964.69 0.1939 0.0402

Venus 19257-08-10 15:21 G 8754757.14 8754757.14 8754757.15 0.3692 0.3688

Saturn 19257-10-31 08:09 G 8754838.84 8754838.84 8754838.84 0.0282 0.0282

Saturn 19258-01-28 01:12 G 8754927.43 8754927.55 8754927.69 0.0282 0.0161

Saturn 19258-04-26 18:00 G 8755016.10 8755016.25 8755016.41 0.0282 0.0043

Saturn 19258-07-24 10:19 G 8755104.78 8755104.93 8755105.08 0.0281 0.0073

Jupiter 19258-10-18 20:09 G 8755191.21 8755191.34 8755191.47 0.0531 0.0276

Saturn 19258-10-21 02:09 G 8755193.48 8755193.59 8755193.71 0.0281 0.0184

Jupiter 19259-01-16 17:16 G 8755281.16 8755281.22 8755281.29 0.0535 0.0473

Venus 19259-02-21 20:38 G 8755317.30 8755317.36 8755317.42 0.3679 0.3204

Mars 19260-02-08 18:14 G 8755669.12 8755669.26 8755669.39 0.1596 0.0535

Jupiter 19264-06-05 02:52 G 8757247.48 8757247.62 8757247.76 0.0496 0.0093

Jupiter 19264-09-02 14:38 G 8757337.08 8757337.11 8757337.14 0.0493 0.0481

Mars 19264-10-30 05:31 G 8757394.66 8757394.73 8757394.80 0.1935 0.1635

Moon 19269-05-24 22:19 G 8759062.34 8759062.43 8759062.52 0.2644 0.1945

Earth 19269-05-24 23:02 G 8759062.37 8759062.46 8759062.55 0.2649 0.1912 *

Mars 19269-07-01 01:26 G 8759099.42 8759099.56 8759099.71 0.1598 0.0169

Jupiter 19270-08-06 20:38 G 8759501.28 8759501.36 8759501.44 0.0531 0.0459

Jupiter 19270-11-04 18:14 G 8759591.14 8759591.26 8759591.39 0.0534 0.0296

Moon 19271-11-23 01:12 G 8759974.48 8759974.55 8759974.62 0.2683 0.2196

Earth 19271-11-23 02:24 G 8759974.52 8759974.60 8759974.67 0.2683 0.2120 *

Saturn 19273-02-04 11:02 G 8760413.85 8760413.96 8760414.06 0.0277 0.0193

Saturn 19273-05-04 01:12 G 8760502.41 8760502.55 8760502.69 0.0277 0.0091

Saturn 19273-07-31 15:36 G 8760591.00 8760591.15 8760591.31 0.0277 0.0017

Saturn 19273-10-28 06:28 G 8760679.64 8760679.77 8760679.91 0.0278 0.0122

Saturn 19274-01-24 21:50 G 8760768.33 8760768.41 8760768.49 0.0278 0.0232

Jupiter 19276-03-24 05:45 G 8761557.61 8761557.74 8761557.87 0.0497 0.0233

Jupiter 19276-06-21 17:16 G 8761647.11 8761647.22 8761647.33 0.0494 0.0339

Mars 19278-11-21 09:07 G 8762529.76 8762529.88 8762530.00 0.1601 0.0849

Uranus 19280-02-01 06:43 G 8762966.71 8762966.78 8762966.87 0.0146 0.0125

Uranus 19280-04-29 12:14 G 8763054.90 8763055.01 8763055.12 0.0146 0.0101

Uranus 19280-07-26 17:45 G 8763143.11 8763143.24 8763143.37 0.0146 0.0077

Uranus 19280-10-22 23:02 G 8763231.32 8763231.46 8763231.61 0.0146 0.0053

Uranus 19281-01-19 04:33 G 8763319.54 8763319.69 8763319.85 0.0146 0.0029

Uranus 19281-04-17 10:19 G 8763407.77 8763407.93 8763408.09 0.0145 0.0004

Uranus 19281-07-14 15:50 G 8763496.00 8763496.16 8763496.32 0.0145 0.0021

Uranus 19281-10-10 21:21 G 8763584.25 8763584.39 8763584.55 0.0145 0.0046

Uranus 19282-01-07 03:07 G 8763672.49 8763672.63 8763672.77 0.0145 0.0071

Uranus 19282-04-05 08:52 G 8763760.75 8763760.87 8763760.99 0.0145 0.0097

Moon 19282-05-27 20:38 G 8763813.23 8763813.36 8763813.49 0.2650 0.0173

Earth 19282-05-27 21:36 G 8763813.27 8763813.40 8763813.53 0.2649 0.0042 *

Uranus 19282-07-02 14:38 G 8763849.03 8763849.11 8763849.20 0.0145 0.0122

Jupiter 19282-08-23 18:00 G 8763901.10 8763901.25 8763901.40 0.0532 0.0100

Moon 19284-11-24 23:02 G 8764725.33 8764725.46 8764725.58 0.2687 0.0443

Earth 19284-11-24 23:45 G 8764725.36 8764725.49 8764725.61 0.2683 0.0339 *

Mars 19285-07-18 21:50 G 8764961.30 8764961.41 8764961.52 0.1943 0.0960

Venus 19286-07-03 13:26 G 8765311.04 8765311.06 8765311.08 0.3690 0.3622

Saturn 19287-06-17 02:38 G 8765659.50 8765659.61 8765659.73 0.0283 0.0193

Saturn 19287-09-13 19:40 G 8765748.17 8765748.32 8765748.47 0.0283 0.0073

Saturn 19287-12-11 12:14 G 8765836.85 8765837.01 8765837.16 0.0282 0.0045

Jupiter 19288-01-11 08:38 G 8765867.77 8765867.86 8765867.96 0.0498 0.0372

Saturn 19288-03-09 04:04 G 8765925.55 8765925.67 8765925.80 0.0282 0.0158

Jupiter 19288-04-09 19:55 G 8765957.19 8765957.33 8765957.47 0.0495 0.0197

Mars 19288-04-12 16:33 G 8765960.15 8765960.19 8765960.23 0.1604 0.1531

Saturn 19288-06-05 19:40 G 8766014.28 8766014.32 8766014.37 0.0282 0.0267

Mars 19290-03-19 11:16 G 8766665.90 8766665.97 8766666.05 0.1593 0.1349

Venus 19292-01-17 09:21 G 8767334.79 8767334.89 8767334.99 0.3691 0.1944

Jupiter 19294-06-11 18:00 G 8768211.10 8768211.25 8768211.41 0.0532 0.0089

Mars 19294-12-09 01:55 G 8768391.45 8768391.58 8768391.71 0.1939 0.0265

Moon 19295-05-30 19:12 G 8768564.20 8768564.30 8768564.39 0.2653 0.1735

Earth 19295-05-30 19:55 G 8768564.24 8768564.33 8768564.42 0.2649 0.1860 *

Venus 19297-08-02 04:48 G 8769358.58 8769358.70 8769358.82 0.3691 0.0328

Moon 19297-11-27 21:07 G 8769476.28 8769476.38 8769476.48 0.2689 0.1474

Earth 19297-11-27 21:21 G 8769476.28 8769476.39 8769476.49 0.2682 0.1522 *

Venus 19299-02-13 01:12 G 8769918.44 8769918.55 8769918.65 0.3680 0.2031

Mars 19299-08-09 18:28 G 8770096.14 8770096.27 8770096.40 0.1596 0.0638

Jupiter 19300-01-27 22:48 G 8770267.31 8770267.45 8770267.60 0.0496 0.0059

Saturn 19302-06-25 12:57 G 8771145.96 8771146.04 8771146.13 0.0276 0.0219

Saturn 19302-09-22 03:07 G 8771234.50 8771234.63 8771234.77 0.0276 0.0118

Saturn 19302-12-19 17:31 G 8771323.08 8771323.23 8771323.38 0.0277 0.0015

Venus 19303-02-17 00:00 G 8771382.39 8771382.50 8771382.61 0.3692 0.1220

Saturn 19303-03-18 08:09 G 8771411.70 8771411.84 8771411.99 0.0277 0.0092

Saturn 19303-06-14 23:16 G 8771500.37 8771500.47 8771500.58 0.0277 0.0201

Mars 19304-05-01 05:31 G 8771821.65 8771821.73 8771821.81 0.1935 0.1517

Venus 19304-08-29 23:02 G 8771942.33 8771942.46 8771942.58 0.3680 0.0193

Jupiter 19306-03-31 18:14 G 8772521.13 8772521.26 8772521.39 0.0531 0.0277

Jupiter 19306-06-29 15:21 G 8772611.07 8772611.14 8772611.21 0.0534 0.0471

Venus 19308-09-01 18:57 G 8773406.22 8773406.29 8773406.37 0.3692 0.2716

Mars 19308-12-31 01:40 G 8773526.43 8773526.57 8773526.72 0.1598 0.0080

Venus 19310-03-15 21:21 G 8773966.28 8773966.39 8773966.50 0.3679 0.1794

Jupiter 19311-11-17 01:55 G 8774577.44 8774577.58 8774577.73 0.0496 0.0079

Moon 19315-05-27 03:50 G 8775864.55 8775864.66 8775864.76 0.2645 0.1692

Earth 19315-05-27 04:33 G 8775864.58 8775864.69 8775864.80 0.2649 0.1511 *

Saturn 19316-11-04 01:40 G 8776391.49 8776391.57 8776391.65 0.0282 0.0238

Saturn 19317-01-31 18:43 G 8776480.14 8776480.28 8776480.43 0.0282 0.0118

Saturn 19317-04-30 11:16 G 8776568.82 8776568.97 8776569.13 0.0282 0.0008

Saturn 19317-07-28 03:36 G 8776657.51 8776657.65 8776657.79 0.0281 0.0114

Saturn 19317-10-24 19:12 G 8776746.22 8776746.30 8776746.40 0.0281 0.0225

Moon 19317-11-24 06:43 G 8776776.69 8776776.78 8776776.86 0.2683 0.1944

Earth 19317-11-24 07:40 G 8776776.72 8776776.82 8776776.91 0.2683 0.1750 *

Jupiter 19318-01-17 18:43 G 8776831.21 8776831.28 8776831.36 0.0530 0.0457

Jupiter 19318-04-17 16:33 G 8776921.06 8776921.19 8776921.31 0.0534 0.0299

Mars 19318-05-23 09:21 G 8776956.76 8776956.89 8776957.01 0.1601 0.0752

Uranus 19322-02-23 06:00 G 8778328.74 8778328.75 8778328.79 0.0133 0.0131

Uranus 19322-05-22 10:48 G 8778416.87 8778416.95 8778417.04 0.0133 0.0111

Uranus 19322-08-18 15:21 G 8778505.03 8778505.14 8778505.25 0.0133 0.0092

Uranus 19322-11-14 19:40 G 8778593.20 8778593.32 8778593.46 0.0133 0.0074

Uranus 19323-02-11 00:14 G 8778681.37 8778681.51 8778681.65 0.0133 0.0055

Uranus 19323-05-10 04:33 G 8778769.54 8778769.69 8778769.85 0.0133 0.0036

Uranus 19323-08-06 08:52 G 8778857.72 8778857.87 8778858.03 0.0133 0.0018

Jupiter 19323-09-05 04:48 G 8778887.57 8778887.70 8778887.83 0.0497 0.0221

Uranus 19323-11-02 13:26 G 8778945.90 8778946.06 8778946.21 0.0133 0.0003

Jupiter 19323-12-03 16:04 G 8778977.07 8778977.17 8778977.28 0.0494 0.0351

Uranus 19324-01-29 17:31 G 8779034.08 8779034.23 8779034.39 0.0133 0.0020

Uranus 19324-04-26 21:50 G 8779122.27 8779122.41 8779122.56 0.0133 0.0038

Uranus 19324-07-24 01:55 G 8779210.45 8779210.58 8779210.73 0.0133 0.0056

Uranus 19324-10-20 06:14 G 8779298.64 8779298.76 8779298.89 0.0133 0.0074

Uranus 19325-01-16 10:19 G 8779386.83 8779386.93 8779387.05 0.0133 0.0092

Mars 19325-01-17 21:50 G 8779388.31 8779388.41 8779388.52 0.1943 0.1080

Uranus 19325-04-14 14:38 G 8779475.03 8779475.11 8779475.20 0.0133 0.0109

Uranus 19325-07-11 18:28 G 8779563.24 8779563.27 8779563.32 0.0133 0.0127

Pluto 19326-11-29 16:04 G 8780069.12 8780069.17 8780069.23 0.0074 0.0070

Pluto 19327-02-25 18:14 G 8780157.15 8780157.26 8780157.41 0.0074 0.0055

Pluto 19327-05-24 20:52 G 8780245.21 8780245.37 8780245.55 0.0073 0.0039

Pluto 19327-08-20 23:16 G 8780333.30 8780333.47 8780333.67 0.0073 0.0023

Mars 19327-10-13 16:48 G 8780387.14 8780387.20 8780387.27 0.1604 0.1431

Pluto 19327-11-17 01:55 G 8780421.39 8780421.58 8780421.78 0.0073 0.0007

Pluto 19328-02-13 04:19 G 8780509.49 8780509.68 8780509.88 0.0073 0.0008

Pluto 19328-05-11 06:28 G 8780597.60 8780597.77 8780597.97 0.0073 0.0024

Neptune 19328-05-27 13:40 G 8780614.05 8780614.07 8780614.10 0.0089 0.0088

Moon 19328-05-29 01:55 G 8780615.45 8780615.58 8780615.71 0.2650 0.0316

Earth 19328-05-29 03:07 G 8780615.50 8780615.63 8780615.76 0.2649 0.0397 *

Pluto 19328-08-07 08:52 G 8780685.72 8780685.87 8780686.05 0.0073 0.0039

Neptune 19328-08-23 15:50 G 8780702.10 8780702.16 8780702.25 0.0089 0.0079

Pluto 19328-11-03 11:16 G 8780773.86 8780773.97 8780774.12 0.0073 0.0054

Neptune 19328-11-19 18:28 G 8780790.18 8780790.27 8780790.37 0.0089 0.0070

Pluto 19329-01-30 13:26 G 8780862.02 8780862.06 8780862.15 0.0073 0.0069

Neptune 19329-02-15 20:38 G 8780878.26 8780878.36 8780878.49 0.0089 0.0062

Neptune 19329-05-14 23:16 G 8780966.34 8780966.47 8780966.60 0.0089 0.0053

Neptune 19329-08-11 01:26 G 8781054.43 8781054.56 8781054.71 0.0089 0.0045

Mars 19329-09-18 11:31 G 8781092.93 8781092.98 8781093.04 0.1594 0.1455

Neptune 19329-11-07 04:04 G 8781142.52 8781142.67 8781142.82 0.0089 0.0036

Neptune 19330-02-03 06:14 G 8781230.62 8781230.76 8781230.92 0.0089 0.0029

Jupiter 19330-02-03 17:31 G 8781231.08 8781231.23 8781231.37 0.0533 0.0122

Neptune 19330-05-02 08:52 G 8781318.71 8781318.87 8781319.03 0.0089 0.0020

Neptune 19330-07-29 11:02 G 8781406.80 8781406.96 8781407.13 0.0089 0.0012

Neptune 19330-10-25 13:26 G 8781494.90 8781495.06 8781495.22 0.0089 0.0003

Moon 19330-11-27 04:19 G 8781527.56 8781527.68 8781527.81 0.2688 0.0054

Earth 19330-11-27 05:02 G 8781527.58 8781527.71 8781527.83 0.2683 0.0070 *

Neptune 19331-01-21 15:50 G 8781583.00 8781583.16 8781583.32 0.0089 0.0005

Neptune 19331-04-19 18:00 G 8781671.10 8781671.25 8781671.41 0.0089 0.0014

Neptune 19331-07-16 20:09 G 8781759.19 8781759.34 8781759.50 0.0089 0.0022

Neptune 19331-10-12 22:33 G 8781847.29 8781847.44 8781847.59 0.0089 0.0030

Saturn 19331-11-12 12:43 G 8781877.99 8781878.03 8781878.09 0.0276 0.0261

Neptune 19332-01-09 00:43 G 8781935.39 8781935.53 8781935.68 0.0089 0.0038

Saturn 19332-02-09 02:52 G 8781966.50 8781966.62 8781966.74 0.0277 0.0160

Neptune 19332-04-06 02:52 G 8782023.50 8782023.62 8782023.77 0.0089 0.0047

Saturn 19332-05-07 17:02 G 8782055.07 8782055.21 8782055.36 0.0277 0.0058

Neptune 19332-07-03 05:16 G 8782111.60 8782111.72 8782111.85 0.0089 0.0055

Saturn 19332-08-04 07:40 G 8782143.67 8782143.82 8782143.97 0.0277 0.0048

Neptune 19332-09-29 07:26 G 8782199.71 8782199.81 8782199.93 0.0089 0.0063

Saturn 19332-10-31 22:33 G 8782232.32 8782232.44 8782232.57 0.0277 0.0156

Neptune 19332-12-26 09:36 G 8782287.81 8782287.90 8782288.00 0.0089 0.0071

Saturn 19333-01-28 13:55 G 8782321.04 8782321.08 8782321.12 0.0278 0.0267

Neptune 19333-03-24 11:45 G 8782375.93 8782375.99 8782376.07 0.0089 0.0079

Neptune 19333-06-20 13:55 G 8782464.06 8782464.08 8782464.13 0.0089 0.0087

Mars 19334-06-10 02:09 G 8782818.46 8782818.59 8782818.72 0.1939 0.0128

Jupiter 19335-06-24 07:40 G 8783197.72 8783197.82 8783197.92 0.0498 0.0359

Jupiter 19335-09-21 18:57 G 8783287.15 8783287.29 8783287.42 0.0495 0.0209

Mars 19339-02-08 18:43 G 8784523.16 8784523.28 8784523.41 0.1596 0.0748

Moon 19341-06-01 00:43 G 8785366.46 8785366.53 8785366.60 0.2654 0.2164

Earth 19341-06-01 01:26 G 8785366.49 8785366.56 8785366.62 0.2649 0.2245 *

Jupiter 19341-11-22 17:02 G 8785541.06 8785541.21 8785541.37 0.0531 0.0074

Venus 19343-02-08 12:00 G 8785983.94 8785984.00 8785984.06 0.3690 0.3089

Mars 19343-10-31 06:00 G 8786248.66 8786248.75 8786248.84 0.1935 0.1384

Moon 19343-11-30 02:38 G 8786278.52 8786278.61 8786278.70 0.2689 0.1911

Earth 19343-11-30 02:38 G 8786278.52 8786278.61 8786278.70 0.2682 0.1900 *

Saturn 19346-03-24 02:38 G 8787123.57 8787123.61 8787123.65 0.0283 0.0273

Saturn 19346-06-20 19:55 G 8787212.20 8787212.33 8787212.46 0.0283 0.0151

Saturn 19346-09-17 12:43 G 8787300.87 8787301.03 8787301.19 0.0283 0.0032

Saturn 19346-12-15 05:02 G 8787389.56 8787389.71 8787389.86 0.0282 0.0084

Saturn 19347-03-13 21:07 G 8787478.27 8787478.38 8787478.49 0.0282 0.0196

Jupiter 19347-07-10 21:36 G 8787597.25 8787597.40 8787597.54 0.0496 0.0066

Mars 19348-07-01 02:09 G 8787953.44 8787953.59 8787953.73 0.1598 0.0059

Venus 19348-08-24 07:55 G 8788007.72 8788007.83 8788007.93 0.3691 0.1431

Venus 19350-03-07 02:38 G 8788567.56 8788567.61 8788567.67 0.3680 0.3252

Jupiter 19353-09-10 17:02 G 8789851.08 8789851.21 8789851.35 0.0531 0.0264

Jupiter 19353-12-09 14:09 G 8789941.03 8789941.09 8789941.15 0.0534 0.0482

Venus 19354-03-10 03:07 G 8790031.52 8790031.63 8790031.75 0.3691 0.0210

Venus 19355-09-21 00:14 G 8790591.39 8790591.51 8790591.62 0.3680 0.1467

Mars 19357-11-21 09:21 G 8791383.76 8791383.89 8791384.02 0.1601 0.0654

Jupiter 19359-04-29 00:28 G 8791907.38 8791907.52 8791907.67 0.0497 0.0073

Venus 19359-09-23 22:33 G 8792055.33 8792055.44 8792055.54 0.3692 0.1710

Venus 19361-04-05 22:19 G 8792615.30 8792615.43 8792615.55 0.3679 0.0451

Moon 19361-05-27 09:07 G 8792666.76 8792666.88 8792667.00 0.2647 0.1164

Earth 19361-05-27 10:04 G 8792666.80 8792666.92 8792667.04 0.2649 0.1113 *

Saturn 19361-06-28 05:02 G 8792698.60 8792698.71 8792698.82 0.0276 0.0186

Saturn 19361-09-24 19:12 G 8792787.16 8792787.30 8792787.44 0.0276 0.0084

Saturn 19361-12-22 09:36 G 8792875.75 8792875.90 8792876.05 0.0277 0.0021

Saturn 19362-03-21 00:28 G 8792964.38 8792964.52 8792964.66 0.0277 0.0127

Saturn 19362-06-17 15:36 G 8793053.08 8793053.15 8793053.23 0.0277 0.0237

Moon 19363-11-25 12:00 G 8793578.90 8793579.00 8793579.11 0.2684 0.1430

Earth 19363-11-25 12:57 G 8793578.93 8793579.04 8793579.15 0.2683 0.1381 *

Uranus 19363-11-26 08:38 G 8793579.84 8793579.86 8793579.90 0.0146 0.0143

Uranus 19364-02-22 14:09 G 8793668.00 8793668.09 8793668.18 0.0146 0.0119

Uranus 19364-05-20 19:26 G 8793756.20 8793756.31 8793756.43 0.0146 0.0095

Mars 19364-07-18 22:19 G 8793815.33 8793815.43 8793815.53 0.1943 0.1216

Uranus 19364-08-17 00:57 G 8793844.41 8793844.54 8793844.68 0.0146 0.0071

Uranus 19364-11-13 06:28 G 8793932.62 8793932.77 8793932.92 0.0146 0.0047

Uranus 19365-02-09 12:00 G 8794020.84 8794021.00 8794021.16 0.0146 0.0022

Venus 19365-04-08 17:16 G 8794079.16 8794079.22 8794079.28 0.3692 0.3170

Uranus 19365-05-08 17:31 G 8794109.07 8794109.23 8794109.39 0.0146 0.0003

Jupiter 19365-06-29 17:02 G 8794161.13 8794161.21 8794161.29 0.0530 0.0455

Uranus 19365-08-04 23:02 G 8794197.31 8794197.46 8794197.62 0.0146 0.0028

Jupiter 19365-09-27 14:38 G 8794250.99 8794251.11 8794251.24 0.0533 0.0299

Uranus 19365-11-01 04:48 G 8794285.55 8794285.70 8794285.85 0.0145 0.0052

Uranus 19366-01-28 10:33 G 8794373.80 8794373.94 8794374.07 0.0145 0.0078

Uranus 19366-04-26 16:04 G 8794462.07 8794462.17 8794462.29 0.0145 0.0103

Uranus 19366-07-23 21:50 G 8794550.35 8794550.41 8794550.49 0.0145 0.0129

Venus 19366-10-20 20:38 G 8794639.26 8794639.36 8794639.46 0.3679 0.2423

Mars 19367-04-13 17:02 G 8794814.14 8794814.21 8794814.29 0.1604 0.1333

Mars 19369-03-19 11:45 G 8795519.97 8795519.99 8795520.02 0.1593 0.1559

Jupiter 19371-02-15 03:50 G 8796217.52 8796217.66 8796217.79 0.0497 0.0208

Jupiter 19371-05-15 15:07 G 8796307.04 8796307.13 8796307.24 0.0494 0.0366

Mars 19373-12-09 02:09 G 8797245.46 8797245.59 8797245.72 0.1939 0.0031

Moon 19374-05-30 07:26 G 8797417.69 8797417.81 8797417.94 0.2651 0.0591

Earth 19374-05-30 08:38 G 8797417.73 8797417.86 8797417.98 0.2649 0.0789 *

Saturn 19375-11-07 18:57 G 8797944.18 8797944.29 8797944.40 0.0282 0.0197

Saturn 19376-02-04 11:45 G 8798032.84 8798032.99 8798033.15 0.0282 0.0078

Saturn 19376-05-03 04:19 G 8798121.53 8798121.68 8798121.84 0.0282 0.0041

Saturn 19376-07-30 20:38 G 8798210.23 8798210.36 8798210.49 0.0281 0.0154

Saturn 19376-10-27 12:00 G 8798298.96 8798299.00 8798299.06 0.0281 0.0264

Moon 19376-11-27 09:50 G 8798329.78 8798329.91 8798330.03 0.2688 0.0297

Earth 19376-11-27 10:19 G 8798329.81 8798329.93 8798330.06 0.2682 0.0428 *

Jupiter 19377-07-16 15:36 G 8798561.00 8798561.15 8798561.30 0.0533 0.0124

Mars 19378-08-09 18:57 G 8798950.17 8798950.29 8798950.41 0.1596 0.0850

Jupiter 19382-12-04 06:43 G 8800527.68 8800527.78 8800527.88 0.0498 0.0347

Jupiter 19383-03-03 17:45 G 8800617.11 8800617.24 8800617.37 0.0495 0.0221

Mars 19383-05-01 06:14 G 8800675.66 8800675.76 8800675.86 0.1936 0.1252

Moon 19387-06-02 06:14 G 8802168.75 8802168.76 8802168.78 0.2656 0.2612

Earth 19387-06-02 06:43 G 8802168.77 8802168.78 8802168.80 0.2649 0.2621 *

Mars 19387-12-31 02:24 G 8802380.46 8802380.60 8802380.74 0.1598 0.0149

Jupiter 19389-05-04 16:19 G 8802871.03 8802871.18 8802871.34 0.0532 0.0056

Earth 19389-11-30 07:55 G 8803080.77 8803080.83 8803080.90 0.2682 0.2284

Moon 19389-11-30 08:09 G 8803080.79 8803080.84 8803080.90 0.2688 0.2361 *

Saturn 19390-11-15 04:48 G 8803430.62 8803430.70 8803430.78 0.0276 0.0227

Saturn 19391-02-11 18:43 G 8803519.15 8803519.28 8803519.42 0.0276 0.0127

Saturn 19391-05-11 09:07 G 8803607.73 8803607.88 8803608.03 0.0277 0.0024

Saturn 19391-08-07 23:45 G 8803696.35 8803696.49 8803696.64 0.0277 0.0082

Saturn 19391-11-04 14:38 G 8803785.01 8803785.11 8803785.23 0.0277 0.0192

Jupiter 19394-09-22 09:50 G 8804837.88 8804837.91 8804837.94 0.0499 0.0485

Jupiter 19394-12-20 20:38 G 8804927.21 8804927.36 8804927.51 0.0496 0.0079

Mars 19397-05-22 09:50 G 8805810.77 8805810.91 8805811.04 0.1601 0.0546

Venus 19399-09-15 10:33 G 8806656.86 8806656.94 8806657.03 0.3690 0.2559

Jupiter 19401-02-21 16:04 G 8807181.04 8807181.17 8807181.31 0.0531 0.0247

Jupiter 19401-05-22 13:12 G 8807271.00 8807271.05 8807271.10 0.0534 0.0498

Mars 19404-01-18 22:19 G 8808242.34 8808242.43 8808242.52 0.1943 0.1333

Saturn 19405-03-27 19:40 G 8808676.23 8808676.32 8808676.40 0.0283 0.0234

Venus 19405-04-01 06:14 G 8808680.65 8808680.76 8808680.88 0.3691 0.0923

Saturn 19405-06-24 12:43 G 8808764.88 8808765.03 8808765.18 0.0283 0.0112

Saturn 19405-09-21 05:31 G 8808853.57 8808853.73 8808853.88 0.0283 0.0008

Saturn 19405-12-18 21:50 G 8808942.27 8808942.41 8808942.55 0.0282 0.0122

Uranus 19406-03-16 13:55 G 8809030.04 8809030.08 8809030.15 0.0133 0.0123

Saturn 19406-03-17 13:40 G 8809030.98 8809031.07 8809031.15 0.0282 0.0233

Uranus 19406-06-12 18:28 G 8809118.19 8809118.27 8809118.38 0.0133 0.0104

Uranus 19406-09-08 23:02 G 8809206.35 8809206.46 8809206.59 0.0133 0.0085

Jupiter 19406-10-09 23:16 G 8809237.32 8809237.47 8809237.61 0.0497 0.0066

Venus 19406-10-13 01:40 G 8809240.49 8809240.57 8809240.65 0.3680 0.2704

Mars 19406-10-13 17:16 G 8809241.13 8809241.22 8809241.31 0.1604 0.1234

Uranus 19406-12-06 03:36 G 8809294.52 8809294.65 8809294.79 0.0133 0.0066

Uranus 19407-03-04 08:09 G 8809382.69 8809382.84 8809382.99 0.0133 0.0047

Moon 19407-05-29 14:24 G 8809468.98 8809469.10 8809469.23 0.2648 0.0932

Earth 19407-05-29 15:36 G 8809469.02 8809469.15 8809469.28 0.2649 0.0713 *

Uranus 19407-05-31 12:28 G 8809470.87 8809471.02 8809471.17 0.0133 0.0028

Uranus 19407-08-27 16:48 G 8809559.05 8809559.20 8809559.36 0.0133 0.0010

Uranus 19407-11-23 21:07 G 8809647.23 8809647.38 8809647.54 0.0133 0.0009

Uranus 19408-02-20 01:26 G 8809735.41 8809735.56 8809735.71 0.0133 0.0027

Uranus 19408-05-18 05:45 G 8809823.60 8809823.74 8809823.88 0.0133 0.0045

Uranus 19408-08-14 09:50 G 8809911.78 8809911.91 8809912.05 0.0133 0.0063

Uranus 19408-11-10 14:09 G 8809999.97 8810000.09 8810000.21 0.0133 0.0081

Uranus 19409-02-06 18:14 G 8810088.16 8810088.26 8810088.37 0.0133 0.0099

Uranus 19409-05-05 22:19 G 8810176.37 8810176.43 8810176.51 0.0133 0.0117

Neptune 19409-11-25 18:28 G 8810380.23 8810380.27 8810380.33 0.0088 0.0082

Moon 19409-11-26 17:16 G 8810381.11 8810381.22 8810381.33 0.2686 0.1205

Earth 19409-11-26 18:14 G 8810381.14 8810381.26 8810381.37 0.2683 0.1015 *

Neptune 19410-02-21 20:24 G 8810468.28 8810468.35 8810468.44 0.0088 0.0075

Neptune 19410-05-20 22:04 G 8810556.34 8810556.42 8810556.53 0.0088 0.0068

Neptune 19410-08-17 00:14 G 8810644.41 8810644.51 8810644.63 0.0088 0.0060

Venus 19410-10-16 01:40 G 8810704.46 8810704.57 8810704.69 0.3692 0.0659

Neptune 19410-11-13 02:09 G 8810732.47 8810732.59 8810732.72 0.0088 0.0053

Neptune 19411-02-09 03:50 G 8810820.54 8810820.66 8810820.80 0.0088 0.0046

Neptune 19411-05-08 06:00 G 8810908.62 8810908.75 8810908.89 0.0088 0.0038

Neptune 19411-08-04 07:55 G 8810996.69 8810996.83 8810996.98 0.0088 0.0031

Neptune 19411-10-31 09:50 G 8811084.77 8811084.91 8811085.06 0.0088 0.0023

Neptune 19412-01-27 11:45 G 8811172.84 8811172.99 8811173.15 0.0088 0.0016

Neptune 19412-04-24 13:55 G 8811260.92 8811261.08 8811261.23 0.0088 0.0008

Venus 19412-04-27 23:16 G 8811264.35 8811264.47 8811264.60 0.3680 0.0880

Neptune 19412-07-21 15:50 G 8811349.00 8811349.16 8811349.31 0.0088 0.0001

Neptune 19412-10-17 17:45 G 8811437.09 8811437.24 8811437.39 0.0088 0.0007

Jupiter 19412-12-10 16:04 G 8811491.08 8811491.17 8811491.25 0.0530 0.0439

Neptune 19413-01-13 19:40 G 8811525.17 8811525.32 8811525.47 0.0088 0.0015

Jupiter 19413-03-10 13:40 G 8811580.95 8811581.07 8811581.19 0.0533 0.0313

Neptune 19413-04-11 21:36 G 8811613.26 8811613.40 8811613.56 0.0088 0.0023

Mars 19413-06-10 02:38 G 8811672.48 8811672.61 8811672.74 0.1940 0.0131

Neptune 19413-07-08 23:31 G 8811701.34 8811701.48 8811701.63 0.0088 0.0030

Neptune 19413-10-05 01:26 G 8811789.43 8811789.56 8811789.71 0.0088 0.0038

Neptune 19414-01-01 03:21 G 8811877.52 8811877.64 8811877.79 0.0088 0.0046

Neptune 19414-03-30 05:45 G 8811965.62 8811965.74 8811965.86 0.0088 0.0053

Neptune 19414-06-26 07:40 G 8812053.71 8812053.82 8812053.94 0.0088 0.0061

Neptune 19414-09-22 09:36 G 8812141.82 8812141.90 8812142.01 0.0088 0.0069

Neptune 19414-12-19 11:31 G 8812229.92 8812229.98 8812230.07 0.0088 0.0077

Neptune 19415-03-17 13:55 G 8812318.04 8812318.08 8812318.12 0.0088 0.0084

Venus 19416-04-30 20:52 G 8812728.27 8812728.37 8812728.46 0.3692 0.2179

Venus 19417-11-11 21:21 G 8813288.27 8813288.39 8813288.52 0.3679 0.1052

Mars 19418-02-08 19:12 G 8813377.19 8813377.30 8813377.42 0.1595 0.0953

Jupiter 19418-07-29 02:09 G 8813547.46 8813547.59 8813547.73 0.0498 0.0203

Jupiter 19418-10-26 13:55 G 8813636.98 8813637.08 8813637.17 0.0495 0.0372

Saturn 19420-04-04 07:26 G 8814162.75 8814162.81 8814162.87 0.0276 0.0251

Moon 19420-05-31 12:57 G 8814219.93 8814220.04 8814220.16 0.2651 0.1123

Earth 19420-05-31 13:55 G 8814219.97 8814220.08 8814220.20 0.2649 0.1175 *

Saturn 19420-07-01 21:07 G 8814251.26 8814251.38 8814251.51 0.0276 0.0152

Saturn 19420-09-28 11:31 G 8814339.83 8814339.98 8814340.12 0.0276 0.0050

Saturn 19420-12-26 01:55 G 8814428.43 8814428.58 8814428.73 0.0277 0.0056

Saturn 19421-03-24 16:48 G 8814517.08 8814517.20 8814517.33 0.0277 0.0164

Saturn 19421-06-21 07:55 G 8814605.82 8814605.83 8814605.86 0.0277 0.0275

Venus 19421-11-14 15:36 G 8814752.13 8814752.15 8814752.17 0.3692 0.3632

Mars 19422-10-31 06:28 G 8815102.66 8815102.77 8815102.87 0.1935 0.1127

Moon 19422-11-29 15:07 G 8815132.01 8815132.13 8815132.25 0.2688 0.0808

Earth 19422-11-29 15:36 G 8815132.03 8815132.15 8815132.27 0.2682 0.0803 *

Venus 19423-05-28 20:09 G 8815312.27 8815312.34 8815312.40 0.3678 0.3076

Jupiter 19424-12-27 13:55 G 8815890.93 8815891.08 8815891.23 0.0532 0.0127

Mars 19427-07-02 02:38 G 8816807.47 8816807.61 8816807.75 0.1598 0.0250

Jupiter 19430-05-17 05:31 G 8817857.63 8817857.73 8817857.84 0.0498 0.0337

Jupiter 19430-08-14 16:48 G 8817947.07 8817947.20 8817947.33 0.0495 0.0233

Saturn 19434-08-14 18:57 G 8819408.26 8819408.29 8819408.32 0.0283 0.0277

Saturn 19434-11-11 12:14 G 8819496.88 8819497.01 8819497.14 0.0283 0.0155

Saturn 19435-02-08 05:02 G 8819585.55 8819585.71 8819585.87 0.0282 0.0035

Saturn 19435-05-07 21:21 G 8819674.24 8819674.39 8819674.54 0.0282 0.0081

Saturn 19435-08-04 13:26 G 8819762.95 8819763.06 8819763.17 0.0282 0.0193

Earth 19435-12-02 13:26 G 8819883.06 8819883.06 8819883.06 0.2682 0.2679

Jupiter 19436-10-15 14:38 G 8820200.95 8820201.11 8820201.26 0.0532 0.0053

Mars 19436-11-21 10:04 G 8820237.78 8820237.92 8820238.05 0.1601 0.0447

Moon 19440-05-26 21:50 G 8821520.35 8821520.41 8821520.46 0.2644 0.2360

Earth 19440-05-26 22:19 G 8821520.36 8821520.43 8821520.50 0.2649 0.2250 *

Jupiter 19442-03-05 08:38 G 8822167.82 8822167.86 8822167.90 0.0499 0.0474

Jupiter 19442-06-02 19:26 G 8822257.17 8822257.31 8822257.46 0.0496 0.0090

Moon 19442-11-25 01:26 G 8822432.53 8822432.56 8822432.59 0.2681 0.2582

Earth 19442-11-25 02:09 G 8822432.54 8822432.59 8822432.64 0.2683 0.2420 *

Mars 19443-07-19 22:33 G 8822669.36 8822669.44 8822669.52 0.1944 0.1466

Mars 19446-04-13 17:31 G 8823668.14 8823668.23 8823668.33 0.1603 0.1131

Uranus 19447-12-17 16:19 G 8824281.14 8824281.18 8824281.25 0.0146 0.0135

Uranus 19448-03-14 21:50 G 8824369.32 8824369.41 8824369.51 0.0146 0.0111

Uranus 19448-06-11 03:07 G 8824457.51 8824457.63 8824457.76 0.0146 0.0087

Jupiter 19448-08-03 15:07 G 8824511.00 8824511.13 8824511.28 0.0531 0.0233

Uranus 19448-09-07 08:38 G 8824545.72 8824545.86 8824546.00 0.0146 0.0063

Jupiter 19448-11-01 12:28 G 8824600.98 8824601.02 8824601.06 0.0534 0.0515

Uranus 19448-12-04 14:09 G 8824633.94 8824634.09 8824634.24 0.0146 0.0039

Uranus 19449-03-02 19:40 G 8824722.17 8824722.32 8824722.48 0.0146 0.0014

Uranus 19449-05-30 01:12 G 8824810.40 8824810.55 8824810.71 0.0146 0.0011

Uranus 19449-08-26 06:57 G 8824898.63 8824898.79 8824898.94 0.0145 0.0035

Saturn 19449-11-18 20:52 G 8824983.27 8824983.37 8824983.48 0.0276 0.0194

Uranus 19449-11-22 12:28 G 8824986.88 8824987.02 8824987.17 0.0145 0.0061

Saturn 19450-02-15 11:02 G 8825071.82 8825071.96 8825072.10 0.0276 0.0092

Uranus 19450-02-18 18:14 G 8825075.13 8825075.26 8825075.39 0.0145 0.0086

Saturn 19450-05-15 01:26 G 8825160.41 8825160.56 8825160.71 0.0277 0.0012

Uranus 19450-05-17 23:45 G 8825163.40 8825163.49 8825163.60 0.0145 0.0112

Saturn 19450-08-11 16:04 G 8825249.03 8825249.17 8825249.31 0.0277 0.0118

Uranus 19450-08-14 05:45 G 8825251.69 8825251.74 8825251.80 0.0145 0.0137

Saturn 19450-11-08 07:12 G 8825337.71 8825337.80 8825337.89 0.0277 0.0228

Mars 19452-12-09 02:52 G 8826099.49 8826099.62 8826099.75 0.1940 0.0255

Moon 19453-05-29 19:55 G 8826271.20 8826271.33 8826271.46 0.2648 0.0390

Earth 19453-05-29 21:07 G 8826271.25 8826271.38 8826271.51 0.2649 0.0310 *

Jupiter 19454-03-21 22:19 G 8826567.29 8826567.43 8826567.58 0.0496 0.0050

Moon 19455-11-27 22:33 G 8827183.32 8827183.44 8827183.56 0.2687 0.0698

Earth 19455-11-27 23:31 G 8827183.36 8827183.48 8827183.60 0.2682 0.0651 *

Venus 19456-04-22 09:07 G 8827329.78 8827329.88 8827329.98 0.3691 0.2043

Mars 19457-08-09 19:40 G 8827804.21 8827804.32 8827804.43 0.1595 0.1064

Jupiter 19460-05-22 15:07 G 8828821.04 8828821.13 8828821.22 0.0530 0.0422

Jupiter 19460-08-20 12:43 G 8828910.91 8828911.03 8828911.15 0.0533 0.0329

Venus 19461-11-06 04:48 G 8829353.58 8829353.70 8829353.82 0.3691 0.0415

Mars 19462-05-01 06:43 G 8829529.66 8829529.78 8829529.89 0.1936 0.1003

Venus 19463-05-20 00:43 G 8829913.43 8829913.53 8829913.63 0.3680 0.2138

Saturn 19464-03-30 12:14 G 8830228.90 8830229.01 8830229.13 0.0284 0.0195

Saturn 19464-06-27 05:31 G 8830317.58 8830317.73 8830317.88 0.0283 0.0073

Saturn 19464-09-23 22:04 G 8830406.27 8830406.42 8830406.58 0.0283 0.0045

Saturn 19464-12-21 14:09 G 8830494.97 8830495.09 8830495.22 0.0283 0.0160

Saturn 19465-03-20 06:00 G 8830583.71 8830583.75 8830583.80 0.0282 0.0270

Jupiter 19466-01-08 00:57 G 8830877.40 8830877.54 8830877.67 0.0498 0.0196

Jupiter 19466-04-07 12:28 G 8830966.92 8830967.02 8830967.11 0.0495 0.0379

Moon 19466-06-01 18:43 G 8831022.17 8831022.28 8831022.39 0.2653 0.1389

Earth 19466-06-01 19:26 G 8831022.21 8831022.31 8831022.42 0.2649 0.1568 *

Mars 19466-12-31 02:52 G 8831234.48 8831234.62 8831234.76 0.1598 0.0354

Venus 19467-05-23 00:14 G 8831377.39 8831377.51 8831377.62 0.3692 0.1160

Moon 19468-11-29 20:38 G 8831934.25 8831934.36 8831934.48 0.2688 0.1083

Earth 19468-11-29 20:52 G 8831934.26 8831934.37 8831934.49 0.2682 0.1180 *

Venus 19468-12-02 22:33 G 8831937.31 8831937.44 8831937.57 0.3679 0.0280

Jupiter 19472-06-08 12:57 G 8833220.89 8833221.04 8833221.19 0.0532 0.0142

Venus 19472-12-05 19:12 G 8833401.22 8833401.30 8833401.38 0.3692 0.2653

Venus 19474-06-18 20:52 G 8833961.25 8833961.37 8833961.48 0.3679 0.1676

Mars 19476-05-22 10:19 G 8834664.79 8834664.93 8834665.07 0.1600 0.0347

Jupiter 19477-10-27 04:04 G 8835187.56 8835187.67 8835187.77 0.0499 0.0333

Jupiter 19478-01-24 15:07 G 8835277.00 8835277.13 8835277.26 0.0496 0.0238

Saturn 19479-04-07 23:31 G 8835715.40 8835715.48 8835715.58 0.0275 0.0216

Saturn 19479-07-05 13:40 G 8835803.93 8835804.07 8835804.20 0.0276 0.0115

Saturn 19479-10-02 03:50 G 8835892.51 8835892.66 8835892.82 0.0276 0.0015

Saturn 19479-12-29 18:28 G 8835981.13 8835981.27 8835981.42 0.0276 0.0094

Saturn 19480-03-27 09:21 G 8836069.80 8836069.89 8836070.00 0.0277 0.0203

Mars 19483-01-17 22:48 G 8837096.38 8837096.45 8837096.52 0.1943 0.1589

Jupiter 19484-03-27 12:57 G 8837530.88 8837531.04 8837531.19 0.0531 0.0052

Mars 19485-10-12 17:45 G 8838095.14 8838095.24 8838095.35 0.1603 0.1034

Moon 19486-05-28 03:07 G 8838322.54 8838322.63 8838322.72 0.2645 0.1960

Earth 19486-05-28 03:50 G 8838322.57 8838322.66 8838322.76 0.2649 0.1845 *

Pluto 19488-02-24 12:28 G 8838959.97 8838960.02 8838960.07 0.0070 0.0065

Pluto 19488-05-22 12:57 G 8839047.97 8839048.04 8839048.13 0.0070 0.0056

Pluto 19488-08-18 13:26 G 8839135.98 8839136.06 8839136.17 0.0071 0.0047

Pluto 19488-11-14 14:24 G 8839223.99 8839224.10 8839224.22 0.0071 0.0037

Moon 19488-11-25 06:43 G 8839234.70 8839234.78 8839234.85 0.2683 0.2170

Earth 19488-11-25 07:26 G 8839234.74 8839234.81 8839234.89 0.2683 0.2059 *

Pluto 19489-02-10 14:52 G 8839312.01 8839312.12 8839312.25 0.0071 0.0028

Pluto 19489-05-09 15:36 G 8839400.03 8839400.15 8839400.28 0.0071 0.0018

Pluto 19489-08-05 16:19 G 8839488.05 8839488.18 8839488.31 0.0071 0.0009

Jupiter 19489-08-15 07:26 G 8839497.76 8839497.81 8839497.86 0.0499 0.0466

Pluto 19489-11-01 17:02 G 8839576.08 8839576.21 8839576.34 0.0071 0.0001

Jupiter 19489-11-12 18:14 G 8839587.12 8839587.26 8839587.41 0.0496 0.0100

Pluto 19490-01-28 17:31 G 8839664.11 8839664.23 8839664.37 0.0071 0.0011

Uranus 19490-04-05 22:04 G 8839731.35 8839731.42 8839731.50 0.0133 0.0115

Pluto 19490-04-26 18:14 G 8839752.14 8839752.26 8839752.39 0.0071 0.0021

Uranus 19490-07-03 02:24 G 8839819.50 8839819.60 8839819.72 0.0133 0.0096

Pluto 19490-07-23 18:43 G 8839840.17 8839840.28 8839840.41 0.0071 0.0031

Uranus 19490-09-29 06:57 G 8839907.67 8839907.79 8839907.93 0.0133 0.0077

Pluto 19490-10-19 19:26 G 8839928.21 8839928.31 8839928.43 0.0072 0.0040

Uranus 19490-12-26 11:31 G 8839995.84 8839995.98 8839996.12 0.0133 0.0058

Pluto 19491-01-15 20:24 G 8840016.25 8840016.35 8840016.44 0.0072 0.0050

Uranus 19491-03-24 16:04 G 8840084.02 8840084.17 8840084.32 0.0133 0.0039

Pluto 19491-04-13 20:52 G 8840104.31 8840104.37 8840104.45 0.0072 0.0060

Uranus 19491-06-20 20:24 G 8840172.20 8840172.35 8840172.50 0.0133 0.0021

Pluto 19491-07-10 21:36 G 8840192.38 8840192.40 8840192.43 0.0072 0.0070

Uranus 19491-09-17 00:43 G 8840260.38 8840260.53 8840260.69 0.0133 0.0002

Uranus 19491-12-14 05:02 G 8840348.56 8840348.71 8840348.86 0.0133 0.0016

Uranus 19492-03-11 09:07 G 8840436.74 8840436.88 8840437.04 0.0133 0.0035

Uranus 19492-06-07 13:26 G 8840524.93 8840525.06 8840525.21 0.0133 0.0053

Mars 19492-06-09 02:52 G 8840526.49 8840526.62 8840526.75 0.1940 0.0367

Uranus 19492-09-03 17:45 G 8840613.11 8840613.24 8840613.37 0.0133 0.0071

Uranus 19492-11-30 21:50 G 8840701.30 8840701.41 8840701.53 0.0133 0.0089

Neptune 19493-02-22 11:31 G 8840784.96 8840784.98 8840785.03 0.0089 0.0087

Uranus 19493-02-27 02:09 G 8840789.50 8840789.59 8840789.68 0.0133 0.0106

Neptune 19493-05-21 14:09 G 8840873.02 8840873.09 8840873.17 0.0089 0.0078

Uranus 19493-05-26 06:14 G 8840877.71 8840877.76 8840877.82 0.0133 0.0124

Saturn 19493-08-17 12:00 G 8840960.92 8840961.00 8840961.10 0.0283 0.0235

Neptune 19493-08-17 16:19 G 8840961.09 8840961.18 8840961.30 0.0089 0.0070 *

Neptune 19493-11-13 18:57 G 8841049.18 8841049.29 8841049.41 0.0089 0.0061

Saturn 19493-11-14 05:16 G 8841049.58 8841049.72 8841049.87 0.0283 0.0114

Neptune 19494-02-09 21:07 G 8841137.26 8841137.38 8841137.53 0.0089 0.0053

Saturn 19494-02-10 22:04 G 8841138.27 8841138.42 8841138.58 0.0282 0.0008

Neptune 19494-05-08 23:45 G 8841225.35 8841225.49 8841225.64 0.0089 0.0044

Saturn 19494-05-10 14:24 G 8841226.96 8841227.10 8841227.24 0.0282 0.0121

Neptune 19494-08-05 01:55 G 8841313.45 8841313.58 8841313.74 0.0089 0.0037

Saturn 19494-08-07 06:14 G 8841315.68 8841315.76 8841315.85 0.0282 0.0233

Neptune 19494-11-01 04:33 G 8841401.54 8841401.69 8841401.85 0.0089 0.0027

Neptune 19495-01-28 06:57 G 8841489.63 8841489.79 8841489.95 0.0089 0.0019

Neptune 19495-04-26 09:21 G 8841577.73 8841577.89 8841578.05 0.0089 0.0011

Neptune 19495-07-23 11:45 G 8841665.82 8841665.99 8841666.15 0.0089 0.0003

Neptune 19495-10-19 13:55 G 8841753.92 8841754.08 8841754.24 0.0089 0.0006

Jupiter 19496-01-14 13:26 G 8841840.92 8841841.06 8841841.20 0.0531 0.0231

Neptune 19496-01-15 16:19 G 8841842.02 8841842.18 8841842.34 0.0089 0.0014

Neptune 19496-04-12 18:28 G 8841930.12 8841930.27 8841930.43 0.0089 0.0023

Jupiter 19496-04-13 10:33 G 8841930.90 8841930.94 8841930.98 0.0534 0.0516

Neptune 19496-07-09 20:38 G 8842018.22 8842018.36 8842018.52 0.0089 0.0031

Neptune 19496-10-05 23:02 G 8842106.32 8842106.46 8842106.61 0.0089 0.0039

Neptune 19497-01-02 01:12 G 8842194.42 8842194.55 8842194.69 0.0089 0.0047

Mars 19497-02-07 19:55 G 8842231.23 8842231.33 8842231.42 0.1595 0.1166

Neptune 19497-03-31 03:21 G 8842282.53 8842282.64 8842282.78 0.0089 0.0056

Neptune 19497-06-27 05:45 G 8842370.63 8842370.74 8842370.86 0.0089 0.0064

Neptune 19497-09-23 07:55 G 8842458.74 8842458.83 8842458.93 0.0089 0.0072

Neptune 19497-12-20 10:04 G 8842546.86 8842546.92 8842547.00 0.0089 0.0080

Neptune 19498-03-18 12:14 G 8842634.99 8842635.01 8842635.05 0.0089 0.0088

Moon 19499-05-31 01:26 G 8843073.43 8843073.56 8843073.70 0.2648 0.0139

Earth 19499-05-31 02:38 G 8843073.48 8843073.61 8843073.74 0.2649 0.0089 *

Jupiter 19501-09-01 21:07 G 8843897.23 8843897.38 8843897.53 0.0497 0.0041

Mars 19501-10-31 06:57 G 8843956.68 8843956.79 8843956.91 0.1936 0.0857

Moon 19501-11-29 04:04 G 8843985.54 8843985.67 8843985.79 0.2687 0.0458

Earth 19501-11-29 04:48 G 8843985.57 8843985.70 8843985.82 0.2682 0.0283 *

Mars 19506-07-02 03:07 G 8845661.50 8845661.63 8845661.77 0.1598 0.0463

Venus 19507-05-15 12:00 G 8845978.94 8845979.00 8845979.05 0.3690 0.3197

Jupiter 19507-11-03 13:55 G 8846150.98 8846151.08 8846151.18 0.0530 0.0412

Jupiter 19508-02-01 11:31 G 8846240.87 8846240.98 8846241.10 0.0533 0.0343

Saturn 19508-08-25 23:31 G 8846447.43 8846447.48 8846447.53 0.0276 0.0256

Saturn 19508-11-22 13:26 G 8846535.94 8846536.06 8846536.18 0.0276 0.0157

Saturn 19509-02-19 03:21 G 8846624.50 8846624.64 8846624.79 0.0276 0.0056

Saturn 19509-05-18 18:00 G 8846713.10 8846713.25 8846713.40 0.0277 0.0049

Saturn 19509-08-15 08:38 G 8846801.74 8846801.86 8846801.99 0.0277 0.0157

Saturn 19509-11-12 00:00 G 8846890.46 8846890.50 8846890.54 0.0277 0.0267

Moon 19512-06-03 00:14 G 8847824.43 8847824.51 8847824.60 0.2655 0.1939

Earth 19512-06-03 00:57 G 8847824.46 8847824.54 8847824.63 0.2650 0.1953 *

Venus 19512-11-28 07:40 G 8848002.72 8848002.82 8848002.93 0.3691 0.1522

Jupiter 19513-06-21 00:00 G 8848207.37 8848207.50 8848207.64 0.0497 0.0181

Jupiter 19513-09-18 11:31 G 8848296.89 8848296.98 8848297.07 0.0494 0.0393

Venus 19514-06-11 02:24 G 8848562.55 8848562.60 8848562.65 0.3680 0.3353

Moon 19514-12-02 02:09 G 8848736.49 8848736.59 8848736.69 0.2689 0.1628

Earth 19514-12-02 02:09 G 8848736.49 8848736.59 8848736.70 0.2682 0.1555 *

Mars 19515-11-22 10:33 G 8849091.80 8849091.94 8849092.08 0.1600 0.0238

Venus 19518-06-14 03:21 G 8850026.52 8850026.64 8850026.76 0.3691 0.0109

Jupiter 19519-11-20 12:00 G 8850550.85 8850551.00 8850551.14 0.0532 0.0158

Venus 19519-12-26 00:00 G 8850586.38 8850586.50 8850586.61 0.3680 0.1562

Mars 19522-07-19 23:02 G 8851523.40 8851523.46 8851523.52 0.1943 0.1716

Saturn 19523-01-05 12:14 G 8851692.97 8851693.01 8851693.04 0.0284 0.0276

Saturn 19523-04-04 05:31 G 8851781.60 8851781.73 8851781.87 0.0284 0.0153

Saturn 19523-07-01 22:33 G 8851870.28 8851870.44 8851870.60 0.0283 0.0033

Saturn 19523-09-28 15:07 G 8851958.98 8851959.13 8851959.28 0.0283 0.0085

Saturn 19523-12-26 06:57 G 8852047.69 8852047.79 8852047.91 0.0283 0.0199

Venus 19523-12-28 22:33 G 8852050.34 8852050.44 8852050.54 0.3692 0.1640

Jupiter 19525-04-09 02:38 G 8852517.50 8852517.61 8852517.71 0.0499 0.0328

Mars 19525-04-13 18:00 G 8852522.14 8852522.25 8852522.37 0.1603 0.0933

Jupiter 19525-07-07 13:40 G 8852606.94 8852607.07 8852607.20 0.0496 0.0244

Venus 19525-07-10 21:50 G 8852610.28 8852610.41 8852610.53 0.3679 0.0330

Venus 19529-07-13 17:31 G 8854074.17 8854074.23 8854074.29 0.3692 0.3124

Venus 19531-01-24 20:09 G 8854634.24 8854634.34 8854634.44 0.3679 0.2315

Jupiter 19531-09-08 12:00 G 8854860.85 8854861.00 8854861.16 0.0531 0.0032

Mars 19531-12-10 03:21 G 8854953.51 8854953.64 8854953.76 0.1940 0.0512

Uranus 19532-01-08 00:00 G 8854982.44 8854982.50 8854982.58 0.0146 0.0128

Uranus 19532-04-05 05:31 G 8855070.62 8855070.73 8855070.84 0.0146 0.0104

Moon 19532-05-29 08:24 G 8855124.74 8855124.85 8855124.96 0.2646 0.1543

Earth 19532-05-29 09:21 G 8855124.78 8855124.89 8855125.00 0.2649 0.1443 *

Uranus 19532-07-02 10:48 G 8855158.82 8855158.95 8855159.08 0.0146 0.0080

Uranus 19532-09-28 16:19 G 8855247.04 8855247.18 8855247.32 0.0146 0.0056

Uranus 19532-12-25 21:50 G 8855335.25 8855335.41 8855335.56 0.0146 0.0031

Uranus 19533-03-24 03:21 G 8855423.48 8855423.64 8855423.80 0.0146 0.0007

Uranus 19533-06-20 08:52 G 8855511.71 8855511.87 8855512.03 0.0146 0.0018

Uranus 19533-09-16 14:24 G 8855599.95 8855600.10 8855600.26 0.0146 0.0043

Uranus 19533-12-13 19:55 G 8855688.20 8855688.33 8855688.48 0.0146 0.0069

Uranus 19534-03-12 01:40 G 8855776.46 8855776.57 8855776.70 0.0145 0.0094

Uranus 19534-06-08 07:40 G 8855864.73 8855864.82 8855864.91 0.0145 0.0119

Uranus 19534-09-04 13:26 G 8855953.05 8855953.06 8855953.08 0.0145 0.0145

Moon 19534-11-27 11:45 G 8856036.90 8856036.99 8856037.08 0.2684 0.1810

Earth 19534-11-27 12:43 G 8856036.94 8856037.03 8856037.13 0.2683 0.1697 *

Mars 19536-08-09 20:09 G 8856658.26 8856658.34 8856658.43 0.1595 0.1273

Jupiter 19537-01-26 05:45 G 8856827.69 8856827.74 8856827.79 0.0499 0.0465

Jupiter 19537-04-25 16:33 G 8856917.05 8856917.19 8856917.33 0.0496 0.0102

Saturn 19538-04-11 16:19 G 8857268.07 8857268.18 8857268.29 0.0275 0.0178

Saturn 19538-07-09 06:14 G 8857356.62 8857356.76 8857356.91 0.0276 0.0077

Saturn 19538-10-05 20:38 G 8857445.21 8857445.36 8857445.52 0.0276 0.0029

Saturn 19539-01-02 11:31 G 8857533.85 8857533.98 8857534.11 0.0276 0.0134

Saturn 19539-04-01 02:38 G 8857622.54 8857622.61 8857622.68 0.0277 0.0243

Mars 19541-05-01 07:12 G 8858383.68 8858383.80 8858383.92 0.1936 0.0743

Jupiter 19543-06-27 11:31 G 8859170.84 8859170.98 8859171.12 0.0530 0.0229

Jupiter 19543-09-25 08:38 G 8859260.83 8859260.86 8859260.90 0.0534 0.0517

Moon 19545-06-01 07:12 G 8859875.67 8859875.80 8859875.93 0.2650 0.0384

Earth 19545-06-01 08:09 G 8859875.71 8859875.84 8859875.97 0.2649 0.0481 *

Mars 19545-12-31 03:21 G 8860088.51 8860088.64 8860088.78 0.1598 0.0564

Moon 19547-11-30 09:21 G 8860787.77 8860787.89 8860788.02 0.2687 0.0048

Earth 19547-11-30 10:04 G 8860787.79 8860787.92 8860788.05 0.2682 0.0093 *

Jupiter 19549-02-11 19:40 G 8861227.17 8861227.32 8861227.47 0.0497 0.0035

Saturn 19552-08-21 05:45 G 8862513.63 8862513.74 8862513.86 0.0283 0.0190

Saturn 19552-11-17 22:48 G 8862602.30 8862602.45 8862602.61 0.0283 0.0070

Saturn 19553-02-14 15:36 G 8862690.99 8862691.15 8862691.30 0.0283 0.0049

Saturn 19553-05-14 07:40 G 8862779.70 8862779.82 8862779.95 0.0282 0.0163

Saturn 19553-08-10 23:31 G 8862868.45 8862868.48 8862868.51 0.0282 0.0274

Jupiter 19555-04-15 11:45 G 8863480.90 8863480.99 8863481.09 0.0530 0.0413

Mars 19555-05-23 10:48 G 8863518.81 8863518.95 8863519.09 0.1600 0.0137

Jupiter 19555-07-14 09:36 G 8863570.78 8863570.90 8863571.02 0.0533 0.0340

Moon 19558-06-04 05:45 G 8864626.67 8864626.74 8864626.81 0.2655 0.2190

Earth 19558-06-04 06:28 G 8864626.71 8864626.77 8864626.83 0.2649 0.2336 *

Jupiter 19560-11-30 22:33 G 8865537.31 8865537.44 8865537.58 0.0497 0.0175

Moon 19560-12-02 07:40 G 8865538.73 8865538.82 8865538.91 0.2689 0.1892

Earth 19560-12-02 07:40 G 8865538.73 8865538.82 8865538.90 0.2682 0.1935 *

Jupiter 19561-02-28 10:04 G 8865626.84 8865626.92 8865627.01 0.0495 0.0400

Mars 19562-01-17 23:16 G 8865950.43 8865950.47 8865950.50 0.1944 0.1844

Venus 19563-12-20 10:33 G 8866651.86 8866651.94 8866652.02 0.3690 0.2660

Mars 19564-10-12 18:28 G 8866949.15 8866949.27 8866949.39 0.1603 0.0828

Jupiter 19567-05-02 10:33 G 8867880.79 8867880.94 8867881.08 0.0533 0.0165

Saturn 19567-08-29 16:19 G 8868000.09 8868000.18 8868000.27 0.0276 0.0217

Saturn 19567-11-26 06:14 G 8868088.63 8868088.76 8868088.90 0.0276 0.0118

Saturn 19568-02-22 20:24 G 8868177.20 8868177.35 8868177.51 0.0276 0.0017

Saturn 19568-05-21 11:02 G 8868265.82 8868265.96 8868266.11 0.0277 0.0091

Saturn 19568-08-18 01:55 G 8868354.48 8868354.58 8868354.69 0.0277 0.0199

Venus 19569-07-05 06:14 G 8868675.65 8868675.76 8868675.88 0.3691 0.1006

Venus 19571-01-16 01:26 G 8869235.48 8869235.56 8869235.64 0.3680 0.2796

Mars 19571-06-10 03:36 G 8869380.53 8869380.65 8869380.77 0.1940 0.0641

Jupiter 19572-09-19 01:40 G 8869847.46 8869847.57 8869847.68 0.0498 0.0313

Jupiter 19572-12-17 12:43 G 8869936.91 8869937.03 8869937.16 0.0495 0.0257

Pluto 19573-10-14 01:26 G 8870237.54 8870237.56 8870237.62 0.0074 0.0072

Pluto 19574-01-10 04:04 G 8870325.56 8870325.67 8870325.81 0.0074 0.0056

Uranus 19574-01-29 01:26 G 8870344.52 8870344.56 8870344.61 0.0133 0.0126

Mars 19574-03-05 01:55 G 8870379.54 8870379.58 8870379.63 0.1606 0.1514

Pluto 19574-04-08 06:28 G 8870413.62 8870413.77 8870413.95 0.0073 0.0040

Uranus 19574-04-27 06:00 G 8870432.66 8870432.75 8870432.85 0.0133 0.0107

Pluto 19574-07-05 09:07 G 8870501.70 8870501.88 8870502.07 0.0073 0.0025

Uranus 19574-07-24 10:33 G 8870520.83 8870520.94 8870521.06 0.0133 0.0088

Neptune 19574-08-23 17:02 G 8870551.17 8870551.21 8870551.28 0.0088 0.0081

Pluto 19574-10-01 11:31 G 8870589.79 8870589.98 8870590.18 0.0073 0.0009

Uranus 19574-10-20 15:07 G 8870609.00 8870609.13 8870609.26 0.0133 0.0069

Neptune 19574-11-19 18:57 G 8870639.22 8870639.29 8870639.39 0.0088 0.0074

Pluto 19574-12-28 14:09 G 8870677.90 8870678.09 8870678.29 0.0073 0.0007

Uranus 19575-01-16 19:26 G 8870697.17 8870697.31 8870697.46 0.0133 0.0050

Venus 19575-01-19 01:55 G 8870699.46 8870699.58 8870699.69 0.3692 0.0613

Neptune 19575-02-15 21:07 G 8870727.29 8870727.38 8870727.48 0.0088 0.0066

Pluto 19575-03-26 16:19 G 8870766.01 8870766.18 8870766.38 0.0073 0.0022

Uranus 19575-04-15 00:00 G 8870785.35 8870785.50 8870785.65 0.0133 0.0031

Neptune 19575-05-14 22:48 G 8870815.35 8870815.45 8870815.57 0.0088 0.0059

Pluto 19575-06-22 18:57 G 8870854.12 8870854.29 8870854.46 0.0073 0.0037

Uranus 19575-07-12 04:19 G 8870873.53 8870873.68 8870873.84 0.0133 0.0013

Neptune 19575-08-11 00:57 G 8870903.42 8870903.54 8870903.66 0.0088 0.0051

Pluto 19575-09-18 20:52 G 8870942.26 8870942.37 8870942.53 0.0073 0.0053

Uranus 19575-10-08 08:38 G 8870961.71 8870961.86 8870962.02 0.0133 0.0006

Neptune 19575-11-07 02:38 G 8870991.49 8870991.61 8870991.75 0.0088 0.0044

Pluto 19575-12-15 23:16 G 8871030.42 8871030.47 8871030.56 0.0073 0.0068

Uranus 19576-01-04 12:57 G 8871049.89 8871050.04 8871050.20 0.0133 0.0024

Neptune 19576-02-03 04:33 G 8871079.56 8871079.69 8871079.84 0.0088 0.0037

Mars 19576-02-08 20:38 G 8871085.29 8871085.36 8871085.42 0.1595 0.1385

Uranus 19576-04-01 17:02 G 8871138.07 8871138.21 8871138.37 0.0133 0.0043

Neptune 19576-05-01 06:43 G 8871167.64 8871167.78 8871167.92 0.0088 0.0029

Uranus 19576-06-28 21:21 G 8871226.26 8871226.39 8871226.53 0.0133 0.0061

Neptune 19576-07-28 08:24 G 8871255.71 8871255.85 8871256.01 0.0088 0.0022

Venus 19576-07-31 23:02 G 8871259.34 8871259.46 8871259.58 0.3680 0.0972

Uranus 19576-09-25 01:40 G 8871314.45 8871314.57 8871314.70 0.0133 0.0079

Neptune 19576-10-24 10:33 G 8871343.79 8871343.94 8871344.09 0.0088 0.0014

Uranus 19576-12-22 05:45 G 8871402.65 8871402.74 8871402.85 0.0133 0.0097

Neptune 19577-01-20 12:28 G 8871431.87 8871432.02 8871432.17 0.0088 0.0007

Uranus 19577-03-20 10:04 G 8871490.85 8871490.92 8871491.00 0.0133 0.0114

Neptune 19577-04-18 14:24 G 8871519.95 8871520.10 8871520.26 0.0088 0.0002

Uranus 19577-06-16 13:55 G 8871579.08 8871579.08 8871579.11 0.0133 0.0133

Neptune 19577-07-15 16:19 G 8871608.03 8871608.18 8871608.34 0.0088 0.0009

Neptune 19577-10-11 18:28 G 8871696.12 8871696.27 8871696.42 0.0088 0.0016

Neptune 19578-01-07 20:09 G 8871784.20 8871784.34 8871784.50 0.0088 0.0024

Neptune 19578-04-05 22:19 G 8871872.29 8871872.43 8871872.58 0.0088 0.0031

Moon 19578-05-30 13:55 G 8871926.96 8871927.08 8871927.20 0.2646 0.1207

Earth 19578-05-30 14:52 G 8871927.00 8871927.12 8871927.24 0.2649 0.1039 *

Neptune 19578-07-03 00:14 G 8871960.38 8871960.51 8871960.65 0.0088 0.0039

Neptune 19578-09-29 02:09 G 8872048.47 8872048.59 8872048.73 0.0088 0.0047

Neptune 19578-12-26 04:04 G 8872136.56 8872136.67 8872136.81 0.0088 0.0055

Jupiter 19579-02-18 10:48 G 8872190.80 8872190.95 8872191.11 0.0531 0.0021

Neptune 19579-03-24 06:14 G 8872224.66 8872224.76 8872224.88 0.0088 0.0062

Neptune 19579-06-20 08:09 G 8872312.76 8872312.84 8872312.95 0.0088 0.0070

Neptune 19579-09-16 10:19 G 8872400.87 8872400.93 8872401.01 0.0088 0.0078

Neptune 19579-12-13 12:14 G 8872488.99 8872489.01 8872489.06 0.0088 0.0086

Venus 19580-08-03 20:52 G 8872723.28 8872723.37 8872723.47 0.3692 0.2126

Mars 19580-10-30 07:26 G 8872810.69 8872810.81 8872810.93 0.1936 0.0605

Moon 19580-11-27 17:02 G 8872839.11 8872839.21 8872839.31 0.2685 0.1499

Earth 19580-11-27 18:00 G 8872839.14 8872839.25 8872839.36 0.2682 0.1335 *

Saturn 19582-01-08 05:31 G 8873245.64 8873245.73 8873245.83 0.0284 0.0233

Venus 19582-02-14 21:07 G 8873283.25 8873283.38 8873283.50 0.3679 0.0945

Saturn 19582-04-06 22:48 G 8873334.31 8873334.45 8873334.60 0.0284 0.0110

Saturn 19582-07-04 15:50 G 8873423.00 8873423.16 8873423.31 0.0283 0.0012

Saturn 19582-10-01 08:09 G 8873511.70 8873511.84 8873511.98 0.0283 0.0126

Saturn 19582-12-29 00:00 G 8873600.42 8873600.50 8873600.59 0.0283 0.0239

Jupiter 19584-07-08 04:04 G 8874157.62 8874157.67 8874157.73 0.0499 0.0461

Jupiter 19584-10-05 14:52 G 8874246.98 8874247.12 8874247.27 0.0496 0.0108

Mars 19585-07-01 03:36 G 8874515.53 8874515.65 8874515.79 0.1598 0.0673

Venus 19586-02-17 15:50 G 8874747.14 8874747.16 8874747.18 0.3693 0.3592

Venus 19587-08-31 19:26 G 8875307.24 8875307.31 8875307.39 0.3679 0.2956

Mars 19590-03-22 11:02 G 8876240.93 8876240.96 8876241.00 0.1931 0.1864

Jupiter 19590-12-07 10:48 G 8876500.81 8876500.95 8876501.09 0.0530 0.0210

Jupiter 19591-03-07 07:55 G 8876590.83 8876590.83 8876590.83 0.0533 0.0533

Moon 19591-06-02 12:43 G 8876677.90 8876678.03 8876678.15 0.2652 0.0753

Earth 19591-06-02 13:40 G 8876677.94 8876678.07 8876678.19 0.2649 0.0872 *

Moon 19593-11-30 14:52 G 8877590.00 8877590.12 8877590.24 0.2688 0.0389

Earth 19593-11-30 15:21 G 8877590.01 8877590.14 8877590.26 0.2682 0.0462 *

Mars 19594-11-21 11:02 G 8877945.82 8877945.96 8877946.10 0.1600 0.0036

Jupiter 19596-07-24 18:00 G 8878557.10 8878557.25 8878557.39 0.0497 0.0038

Saturn 19597-01-15 19:26 G 8878732.24 8878732.31 8878732.39 0.0275 0.0236

Saturn 19597-04-14 09:21 G 8878820.76 8878820.89 8878821.02 0.0275 0.0137

Saturn 19597-07-11 23:31 G 8878909.33 8878909.48 8878909.63 0.0276 0.0035

Saturn 19597-10-08 13:55 G 8878997.94 8878998.08 8878998.23 0.0276 0.0071

Saturn 19598-01-05 04:48 G 8879086.59 8879086.70 8879086.82 0.0276 0.0178

Jupiter 19602-09-25 10:04 G 8880810.82 8880810.92 8880811.02 0.0529 0.0411

Jupiter 19602-12-24 07:40 G 8880900.71 8880900.82 8880900.94 0.0533 0.0341

Mars 19604-04-12 18:43 G 8881376.15 8881376.28 8881376.40 0.1603 0.0729

Earth 19606-12-03 12:57 G 8882340.98 8882341.04 8882341.10 0.2682 0.2317

Moon 19606-12-03 13:12 G 8882340.99 8882341.05 8882341.10 0.2689 0.2401 *

Jupiter 19608-05-12 21:07 G 8882867.24 8882867.38 8882867.52 0.0498 0.0171

Jupiter 19608-08-10 08:38 G 8882956.77 8882956.86 8882956.94 0.0495 0.0404

Mars 19610-12-09 03:36 G 8883807.53 8883807.65 8883807.77 0.1940 0.0756

Saturn 19611-05-28 06:28 G 8883977.72 8883977.77 8883977.82 0.0284 0.0266

Earth 19611-05-28 21:36 G 8883978.38 8883978.40 8883978.42 0.2649 0.2600

Saturn 19611-08-24 23:45 G 8884066.36 8884066.49 8884066.63 0.0283 0.0143

Saturn 19611-11-21 16:48 G 8884155.04 8884155.20 8884155.36 0.0283 0.0023

Saturn 19612-02-18 09:07 G 8884243.74 8884243.88 8884244.03 0.0283 0.0095

Saturn 19612-05-17 01:12 G 8884332.45 8884332.55 8884332.66 0.0282 0.0208

Mars 19613-09-03 02:24 G 8884806.53 8884806.60 8884806.66 0.1606 0.1413

Jupiter 19614-10-12 08:24 G 8885210.70 8885210.85 8885211.00 0.0532 0.0160

Mars 19615-08-09 20:52 G 8885512.32 8885512.37 8885512.41 0.1595 0.1490

Uranus 19615-11-01 02:52 G 8885595.60 8885595.62 8885595.66 0.0146 0.0142

Uranus 19616-01-28 08:24 G 8885683.76 8885683.85 8885683.94 0.0146 0.0118

Uranus 19616-04-25 13:26 G 8885771.96 8885772.06 8885772.19 0.0146 0.0095

Uranus 19616-07-22 18:57 G 8885860.16 8885860.29 8885860.43 0.0146 0.0071

Uranus 19616-10-19 00:28 G 8885948.37 8885948.52 8885948.67 0.0146 0.0046

Uranus 19617-01-15 06:00 G 8886036.60 8886036.75 8886036.91 0.0146 0.0022

Uranus 19617-04-13 11:31 G 8886124.82 8886124.98 8886125.14 0.0146 0.0003

Uranus 19617-07-10 17:02 G 8886213.06 8886213.21 8886213.37 0.0146 0.0028

Uranus 19617-10-06 22:48 G 8886301.30 8886301.45 8886301.60 0.0146 0.0053

Uranus 19618-01-03 04:19 G 8886389.55 8886389.68 8886389.82 0.0145 0.0078

Uranus 19618-04-01 10:04 G 8886477.81 8886477.92 8886478.04 0.0145 0.0104

Uranus 19618-06-28 15:36 G 8886566.09 8886566.15 8886566.24 0.0145 0.0130

Jupiter 19620-03-01 00:00 G 8887177.39 8887177.50 8887177.62 0.0498 0.0310

Mars 19620-04-30 07:40 G 8887237.70 8887237.82 8887237.95 0.1936 0.0471

Jupiter 19620-05-29 11:16 G 8887266.84 8887266.97 8887267.10 0.0495 0.0261

Venus 19620-07-26 09:07 G 8887324.79 8887324.88 8887324.98 0.3691 0.2130

Moon 19624-05-30 19:26 G 8888729.19 8888729.31 8888729.44 0.2647 0.0712

Earth 19624-05-30 20:38 G 8888729.23 8888729.36 8888729.48 0.2649 0.0640 *

Mars 19624-12-30 04:04 G 8888942.54 8888942.67 8888942.79 0.1598 0.0778

Venus 19626-02-09 04:48 G 8889348.59 8889348.70 8889348.82 0.3691 0.0495

Saturn 19626-06-04 19:55 G 8889464.32 8889464.33 8889464.35 0.0275 0.0273

Jupiter 19626-07-31 09:07 G 8889520.72 8889520.88 8889521.03 0.0532 0.0018

Saturn 19626-09-01 09:36 G 8889552.79 8889552.90 8889553.02 0.0276 0.0175

Moon 19626-11-28 22:19 G 8889641.32 8889641.43 8889641.55 0.2685 0.1054

Saturn 19626-11-28 23:31 G 8889641.34 8889641.48 8889641.63 0.0276 0.0075 *

Earth 19626-11-28 23:16 G 8889641.36 8889641.47 8889641.59 0.2682 0.0970 *

Saturn 19627-02-25 13:55 G 8889729.93 8889730.08 8889730.23 0.0276 0.0030

Saturn 19627-05-25 04:33 G 8889818.56 8889818.69 8889818.83 0.0276 0.0136

Saturn 19627-08-21 19:40 G 8889907.25 8889907.32 8889907.39 0.0277 0.0245

Venus 19627-08-23 00:28 G 8889908.42 8889908.52 8889908.62 0.3680 0.2234

Mars 19629-09-20 11:31 G 8890667.92 8890667.98 8890668.03 0.1931 0.1728

Venus 19631-08-26 00:14 G 8891372.40 8891372.51 8891372.62 0.3692 0.1093

Jupiter 19631-12-19 03:07 G 8891487.58 8891487.63 8891487.70 0.0499 0.0448

Jupiter 19632-03-17 14:09 G 8891576.94 8891577.09 8891577.23 0.0496 0.0120

Venus 19633-03-07 22:04 G 8891932.30 8891932.42 8891932.55 0.3679 0.0402

Mars 19634-05-22 11:31 G 8892372.83 8892372.98 8892373.12 0.1600 0.0088

Venus 19637-03-10 19:12 G 8893396.22 8893396.30 8893396.38 0.3692 0.2601

Moon 19637-06-02 18:14 G 8893480.14 8893480.26 8893480.37 0.2653 0.1118

Earth 19637-06-02 19:12 G 8893480.18 8893480.30 8893480.41 0.2649 0.1268 *

Jupiter 19638-05-19 09:21 G 8893830.75 8893830.89 8893831.04 0.0530 0.0201

Venus 19638-09-21 20:24 G 8893956.23 8893956.35 8893956.46 0.3679 0.1564

Moon 19639-12-01 20:24 G 8894392.23 8894392.35 8894392.47 0.2689 0.0779

Earth 19639-12-01 20:38 G 8894392.24 8894392.36 8894392.48 0.2682 0.0834 *

Saturn 19641-01-10 23:31 G 8894798.36 8894798.48 8894798.60 0.0284 0.0185

Saturn 19641-04-09 16:48 G 8894887.04 8894887.20 8894887.35 0.0284 0.0063

Saturn 19641-07-07 09:21 G 8894975.74 8894975.89 8894976.05 0.0283 0.0055

Saturn 19641-10-04 01:40 G 8895064.45 8895064.57 8895064.69 0.0283 0.0170

Saturn 19641-12-31 17:31 G 8895153.22 8895153.23 8895153.24 0.0283 0.0282

Mars 19643-10-12 18:57 G 8895803.16 8895803.29 8895803.42 0.1603 0.0628

Jupiter 19644-01-04 16:19 G 8895887.03 8895887.18 8895887.32 0.0497 0.0036

Venus 19644-04-06 18:57 G 8895980.27 8895980.29 8895980.31 0.3678 0.3611

Jupiter 19650-03-07 09:07 G 8898140.78 8898140.88 8898140.99 0.0529 0.0394

Jupiter 19650-06-05 06:43 G 8898230.67 8898230.78 8898230.90 0.0532 0.0357

Mars 19650-06-09 04:04 G 8898234.55 8898234.67 8898234.78 0.1940 0.0899

Mars 19653-03-04 02:24 G 8899233.53 8899233.60 8899233.68 0.1606 0.1316

Mars 19655-02-07 21:07 G 8899939.38 8899939.38 8899939.38 0.1595 0.1595

Jupiter 19655-10-23 18:57 G 8900197.16 8900197.29 8900197.43 0.0498 0.0175

Saturn 19656-01-19 12:57 G 8900284.93 8900285.04 8900285.14 0.0275 0.0193

Jupiter 19656-01-21 06:28 G 8900286.69 8900286.77 8900286.86 0.0495 0.0401

Saturn 19656-04-17 02:52 G 8900373.48 8900373.62 8900373.76 0.0275 0.0093

Saturn 19656-07-14 17:02 G 8900462.06 8900462.21 8900462.37 0.0276 0.0014

Saturn 19656-10-11 07:40 G 8900550.69 8900550.82 8900550.96 0.0276 0.0116

Saturn 19657-01-07 22:48 G 8900639.36 8900639.45 8900639.54 0.0276 0.0225

Moon 19657-05-29 02:24 G 8900780.53 8900780.60 8900780.67 0.2644 0.2204

Earth 19657-05-29 03:07 G 8900780.56 8900780.63 8900780.70 0.2649 0.2192 *

Neptune 19657-11-20 09:21 G 8900955.87 8900955.89 8900955.94 0.0089 0.0087

Neptune 19658-02-16 12:00 G 8901043.93 8901044.00 8901044.08 0.0089 0.0078

Uranus 19658-02-18 09:21 G 8901045.83 8901045.89 8901045.97 0.0133 0.0118

Neptune 19658-05-15 14:38 G 8901132.01 8901132.11 8901132.21 0.0089 0.0070

Uranus 19658-05-17 13:55 G 8901133.98 8901134.08 8901134.19 0.0133 0.0099

Neptune 19658-08-11 16:48 G 8901220.09 8901220.20 8901220.33 0.0089 0.0061

Uranus 19658-08-13 18:28 G 8901222.15 8901222.27 8901222.40 0.0133 0.0080

Neptune 19658-11-07 19:26 G 8901308.18 8901308.31 8901308.44 0.0089 0.0053

Uranus 19658-11-09 23:02 G 8901310.32 8901310.46 8901310.60 0.0133 0.0061

Neptune 19659-02-03 21:36 G 8901396.27 8901396.40 8901396.55 0.0089 0.0044

Uranus 19659-02-06 03:36 G 8901398.50 8901398.65 8901398.80 0.0133 0.0042

Neptune 19659-05-03 00:14 G 8901484.36 8901484.51 8901484.66 0.0089 0.0036

Uranus 19659-05-05 07:55 G 8901486.68 8901486.83 8901486.99 0.0133 0.0023

Neptune 19659-07-30 02:24 G 8901572.45 8901572.60 8901572.76 0.0089 0.0027

Uranus 19659-08-01 12:14 G 8901574.86 8901575.01 8901575.17 0.0133 0.0006

Neptune 19659-10-26 04:48 G 8901660.55 8901660.70 8901660.86 0.0089 0.0019

Uranus 19659-10-28 16:48 G 8901663.04 8901663.20 8901663.35 0.0133 0.0014

Mars 19659-10-30 07:55 G 8901664.70 8901664.83 8901664.96 0.1936 0.0346

Moon 19659-11-27 06:28 G 8901692.72 8901692.77 8901692.82 0.2682 0.2409

Earth 19659-11-27 07:26 G 8901692.76 8901692.81 8901692.87 0.2682 0.2359 *

Neptune 19660-01-22 07:12 G 8901748.64 8901748.80 8901748.96 0.0089 0.0011

Uranus 19660-01-24 20:52 G 8901751.22 8901751.37 8901751.53 0.0133 0.0032

Neptune 19660-04-19 09:36 G 8901836.74 8901836.90 8901837.06 0.0089 0.0002

Uranus 19660-04-22 01:12 G 8901839.41 8901839.55 8901839.70 0.0133 0.0050

Neptune 19660-07-16 12:00 G 8901924.84 8901925.00 8901925.16 0.0089 0.0006

Uranus 19660-07-19 05:16 G 8901927.60 8901927.72 8901927.86 0.0133 0.0069

Neptune 19660-10-12 14:09 G 8902012.93 8902013.09 8902013.25 0.0089 0.0015

Uranus 19660-10-15 09:36 G 8902015.79 8902015.90 8902016.02 0.0133 0.0087

Neptune 19661-01-08 16:19 G 8902101.03 8902101.18 8902101.35 0.0089 0.0024

Uranus 19661-01-11 13:55 G 8902103.99 8902104.08 8902104.17 0.0133 0.0104

Neptune 19661-04-06 18:43 G 8902189.14 8902189.28 8902189.44 0.0089 0.0031

Uranus 19661-04-09 18:00 G 8902192.20 8902192.25 8902192.31 0.0133 0.0122

Neptune 19661-07-03 20:52 G 8902277.24 8902277.37 8902277.52 0.0089 0.0040

Neptune 19661-09-29 23:16 G 8902365.34 8902365.47 8902365.61 0.0089 0.0048

Neptune 19661-12-27 01:40 G 8902453.45 8902453.57 8902453.69 0.0089 0.0056

Jupiter 19662-03-24 06:28 G 8902540.62 8902540.77 8902540.91 0.0532 0.0160

Neptune 19662-03-25 03:50 G 8902541.55 8902541.66 8902541.77 0.0089 0.0064

Neptune 19662-06-21 05:45 G 8902629.66 8902629.74 8902629.85 0.0089 0.0072

Neptune 19662-09-17 07:55 G 8902717.78 8902717.83 8902717.92 0.0089 0.0081

Neptune 19662-12-14 10:04 G 8902805.92 8902805.92 8902805.97 0.0089 0.0089

Mars 19664-06-30 04:19 G 8903369.56 8903369.68 8903369.80 0.1597 0.0883

Jupiter 19667-08-11 22:19 G 8904507.32 8904507.43 8904507.55 0.0499 0.0309

Jupiter 19667-11-09 09:21 G 8904596.77 8904596.89 8904597.02 0.0496 0.0263

Mars 19669-03-21 11:31 G 8905094.91 8905094.98 8905095.06 0.1932 0.1607

Saturn 19670-05-31 00:57 G 8905530.44 8905530.54 8905530.65 0.0284 0.0215

Moon 19670-06-01 00:57 G 8905531.41 8905531.54 8905531.67 0.2648 0.0446

Earth 19670-06-01 01:55 G 8905531.45 8905531.58 8905531.72 0.2649 0.0250 *

Saturn 19670-08-27 18:14 G 8905619.11 8905619.26 8905619.41 0.0283 0.0092

Saturn 19670-11-24 11:02 G 8905707.80 8905707.96 8905708.12 0.0283 0.0027

Saturn 19671-02-21 03:21 G 8905796.51 8905796.64 8905796.78 0.0283 0.0142

Saturn 19671-05-20 19:12 G 8905885.24 8905885.30 8905885.37 0.0282 0.0254

Venus 19671-08-17 12:00 G 8905973.94 8905974.00 8905974.05 0.3690 0.3293

Moon 19672-11-29 03:50 G 8906443.54 8906443.66 8906443.78 0.2685 0.0773

Earth 19672-11-29 04:33 G 8906443.57 8906443.69 8906443.81 0.2682 0.0602 *

Mars 19673-11-20 11:31 G 8906799.84 8906799.98 8906800.13 0.1600 0.0183

Jupiter 19674-01-10 06:43 G 8906850.63 8906850.78 8906850.94 0.0531 0.0025

Venus 19677-03-02 07:40 G 8907997.72 8907997.82 8907997.93 0.3691 0.1612

Venus 19678-09-13 02:09 G 8908557.55 8908557.59 8908557.63 0.3680 0.3452

Jupiter 19679-05-31 01:26 G 8908817.50 8908817.56 8908817.63 0.0499 0.0446

Jupiter 19679-08-28 12:14 G 8908906.87 8908907.01 8908907.16 0.0496 0.0121

Venus 19682-09-16 03:21 G 8910021.52 8910021.64 8910021.76 0.3691 0.0048

Mars 19683-04-12 19:12 G 8910230.17 8910230.30 8910230.43 0.1603 0.0519

Moon 19683-06-03 23:31 G 8910282.38 8910282.48 8910282.59 0.2653 0.1576

Earth 19683-06-04 00:28 G 8910282.42 8910282.52 8910282.63 0.2650 0.1653 *

Venus 19684-03-28 23:31 G 8910581.37 8910581.48 8910581.59 0.3680 0.1657

Saturn	19685-06-07 13:26 G	8911016.99	8911017.06	8911017.15	0.0275	0.0229
Saturn	19685-09-04 03:21 G	8911105.51	8911105.64	8911105.77	0.0276	0.0130
Jupiter	19685-10-29 07:12 G	8911160.66	8911160.80	8911160.95	0.0531	0.0206
Saturn	19685-12-01 17:31 G	8911194.08	8911194.23	8911194.38	0.0276	0.0028
Moon	19685-12-02 01:40 G	8911194.46	8911194.57	8911194.68	0.2689	0.1221
Earth	19685-12-02 01:55 G	8911194.47	8911194.58	8911194.69	0.2682	0.1213 *
Saturn	19686-02-28 07:55 G	8911282.69	8911282.83	8911282.98	0.0276	0.0077
Saturn	19686-05-27 22:48 G	8911371.34	8911371.45	8911371.56	0.0277	0.0184
Venus	19688-03-31 22:33 G	8912045.34	8912045.44	8912045.55	0.3692	0.1576
Venus	19689-10-12 21:21 G	8912605.26	8912605.39	8912605.51	0.3679	0.0220
Mars	19689-12-08 04:19 G	8912661.57	8912661.68	8912661.79	0.1940	0.1028
Jupiter	19691-06-16 15:07 G	8913216.99	8913217.13	8913217.28	0.0497	0.0022
Mars	19692-09-02 02:52 G	8913660.53	8913660.62	8913660.71	0.1606	0.1212
Venus	19693-10-15 17:31 G	8914069.17	8914069.23	8914069.30	0.3693	0.3078
Venus	19695-04-28 19:40 G	8914629.22	8914629.32	8914629.42	0.3679	0.2195
Jupiter	19697-08-17 07:26 G	8915470.71	8915470.81	8915470.92	0.0529	0.0389
Jupiter	19697-11-15 05:16 G	8915560.61	8915560.72	8915560.83	0.0533	0.0364
Mars	19699-04-30 08:09 G	8916091.71	8916091.84	8916091.97	0.1936	0.0216
Saturn	19699-10-18 00:28 G	8916262.46	8916262.52	8916262.59	0.0284	0.0258
Uranus	19699-11-21 10:48 G	8916296.90	8916296.95	8916297.01	0.0146	0.0134
Saturn	19700-01-14 18:00 G	8916351.11	8916351.25	8916351.39	0.0284	0.0134
Uranus	19700-02-17 16:04 G	8916385.08	8916385.17	8916385.28	0.0146	0.0110
Saturn	19700-04-13 11:02 G	8916439.80	8916439.96	8916440.12	0.0283	0.0014
Uranus	19700-05-16 21:36 G	8916473.27	8916473.40	8916473.52	0.0146	0.0086
Saturn	19700-07-11 03:36 G	8916528.50	8916528.65	8916528.79	0.0283	0.0103
Uranus	19700-08-13 02:52 G	8916561.48	8916561.62	8916561.76	0.0146	0.0062
Saturn	19700-10-07 19:40 G	8916617.22	8916617.32	8916617.42	0.0283	0.0217
Uranus	19700-11-09 08:24 G	8916649.70	8916649.85	8916650.00	0.0146	0.0038
Uranus	19701-02-05 13:55 G	8916737.92	8916738.08	8916738.24	0.0146	0.0013
Uranus	19701-05-04 19:26 G	8916826.15	8916826.31	8916826.47	0.0146	0.0012

Uranus 19701-08-01 00:57 G 8916914.39 8916914.54 8916914.70 0.0146 0.0037

Uranus 19701-10-28 06:43 G 8917002.63 8917002.78 8917002.92 0.0146 0.0062

Uranus 19702-01-24 12:14 G 8917090.89 8917091.01 8917091.14 0.0146 0.0087

Uranus 19702-04-22 18:00 G 8917179.16 8917179.25 8917179.36 0.0145 0.0112

Uranus 19702-07-19 23:31 G 8917267.45 8917267.48 8917267.54 0.0145 0.0139

Jupiter 19703-04-05 17:16 G 8917527.09 8917527.22 8917527.36 0.0498 0.0174

Moon 19703-05-31 07:55 G 8917582.74 8917582.83 8917582.92 0.2644 0.1955

Earth 19703-05-31 08:38 G 8917582.77 8917582.86 8917582.96 0.2649 0.1783 *

Jupiter 19703-07-04 04:48 G 8917616.61 8917616.70 8917616.78 0.0495 0.0402

Mars 19703-12-31 04:33 G 8917796.58 8917796.69 8917796.80 0.1597 0.0990

Moon 19705-11-28 11:45 G 8918494.92 8918494.99 8918495.06 0.2682 0.2208

Earth 19705-11-28 12:43 G 8918494.95 8918495.03 8918495.11 0.2682 0.2000 *

Mars 19708-09-20 12:00 G 8919521.92 8919522.00 8919522.09 0.1932 0.1460

Jupiter 19709-09-04 05:31 G 8919870.58 8919870.73 8919870.87 0.0532 0.0176

Mars 19713-05-22 12:00 G 8921226.85 8921227.00 8921227.14 0.1600 0.0285

Saturn 19714-10-26 16:48 G 8921749.14 8921749.20 8921749.27 0.0275 0.0247

Jupiter 19715-01-22 20:09 G 8921837.23 8921837.34 8921837.46 0.0499 0.0315

Saturn 19715-01-23 06:43 G 8921837.65 8921837.78 8921837.90 0.0275 0.0148

Saturn 19715-04-21 20:38 G 8921926.22 8921926.36 8921926.51 0.0276 0.0047

Jupiter 19715-04-22 07:26 G 8921926.68 8921926.81 8921926.93 0.0496 0.0257

Saturn 19715-07-19 11:02 G 8922014.82 8922014.96 8922015.11 0.0276 0.0059

Saturn 19715-10-16 01:55 G 8922103.46 8922103.58 8922103.70 0.0276 0.0165

Saturn 19716-01-12 17:02 G 8922192.20 8922192.21 8922192.22 0.0277 0.0275

Moon 19716-06-02 06:28 G 8922333.64 8922333.77 8922333.90 0.2650 0.0103

Earth 19716-06-02 07:40 G 8922333.68 8922333.82 8922333.95 0.2649 0.0183 *

Moon 19718-12-01 09:07 G 8923245.76 8923245.88 8923246.01 0.2687 0.0264

Earth 19718-12-01 09:50 G 8923245.79 8923245.91 8923246.04 0.2682 0.0236 *

Jupiter 19721-06-23 04:48 G 8924180.54 8924180.70 8924180.85 0.0531 0.0027

Mars 19722-10-12 19:26 G 8924657.17 8924657.31 8924657.45 0.1603 0.0420

Jupiter 19726-11-10 23:31 G 8926147.43 8926147.48 8926147.55 0.0500 0.0449

Jupiter	19727-02-08 10:33 G	8926236.79	8926236.94	8926237.08	0.0497	0.0120	
Venus	19728-03-24 10:33 G	8926646.86	8926646.94	8926647.01	0.3691	0.2767	
Saturn	19729-03-07 02:38 G	8926994.61	8926994.61	8926994.61	0.0284	0.0283	
Saturn	19729-06-03 20:09 G	8927083.21	8927083.34	8927083.47	0.0284	0.0160	
Moon	19729-06-05 05:16 G	8927084.63	8927084.72	8927084.81	0.2653	0.1880	
Earth	19729-06-05 06:00 G	8927084.67	8927084.75	8927084.83	0.2650	0.2035	*
Mars	19729-06-09 04:19 G	8927088.58	8927088.68	8927088.78	0.1941	0.1144	
Saturn	19729-08-31 13:12 G	8927171.89	8927172.05	8927172.20	0.0283	0.0039	
Saturn	19729-11-28 05:45 G	8927260.59	8927260.74	8927260.89	0.0283	0.0079	
Saturn	19730-02-24 21:50 G	8927349.30	8927349.41	8927349.53	0.0283	0.0193	
Moon	19731-12-04 07:12 G	8927996.70	8927996.80	8927996.90	0.2689	0.1526	
Earth	19731-12-04 07:26 G	8927996.70	8927996.81	8927996.91	0.2682	0.1596	*
Mars	19732-03-04 03:07 G	8928087.53	8928087.63	8928087.73	0.1606	0.1110	
Jupiter	19733-04-11 04:48 G	8928490.56	8928490.70	8928490.85	0.0530	0.0214	
Jupiter	19733-07-10 02:09 G	8928580.58	8928580.59	8928580.60	0.0534	0.0531	
Venus	19733-10-08 06:14 G	8928670.65	8928670.76	8928670.88	0.3691	0.1090	
Pluto	19735-01-09 00:00 G	8929128.48	8929128.50	8929128.53	0.0070	0.0068	
Pluto	19735-04-07 00:28 G	8929216.46	8929216.52	8929216.60	0.0070	0.0060	
Venus	19735-04-21 00:57 G	8929230.47	8929230.54	8929230.62	0.3680	0.2900	
Pluto	19735-07-04 00:57 G	8929304.47	8929304.54	8929304.65	0.0070	0.0051	
Pluto	19735-09-30 01:55 G	8929392.48	8929392.58	8929392.69	0.0071	0.0041	
Pluto	19735-12-27 02:24 G	8929480.49	8929480.60	8929480.73	0.0071	0.0032	
Pluto	19736-03-24 03:07 G	8929568.51	8929568.63	8929568.76	0.0071	0.0022	
Pluto	19736-06-20 03:50 G	8929656.53	8929656.66	8929656.79	0.0071	0.0013	
Pluto	19736-09-16 04:33 G	8929744.56	8929744.69	8929744.82	0.0071	0.0003	
Pluto	19736-12-13 05:02 G	8929832.58	8929832.71	8929832.85	0.0071	0.0007	
Pluto	19737-03-11 05:45 G	8929920.61	8929920.74	8929920.87	0.0071	0.0016	
Pluto	19737-06-07 06:14 G	8930008.65	8930008.76	8930008.89	0.0071	0.0027	
Pluto	19737-09-03 07:12 G	8930096.69	8930096.80	8930096.91	0.0071	0.0036	
Pluto	19737-11-30 07:40 G	8930184.73	8930184.82	8930184.93	0.0072	0.0046	

Pluto 19738-02-26 08:24 G 8930272.77 8930272.85 8930272.94 0.0072 0.0056

Pluto 19738-05-25 08:52 G 8930360.83 8930360.87 8930360.93 0.0072 0.0066

Mars 19738-10-30 08:38 G 8930518.73 8930518.86 8930518.99 0.1937 0.0071

Jupiter 19738-11-27 13:26 G 8930546.91 8930547.06 8930547.20 0.0497 0.0024

Neptune 19739-02-22 13:55 G 8930634.07 8930634.08 8930634.11 0.0088 0.0087

Venus 19739-04-24 01:55 G 8930694.46 8930694.58 8930694.69 0.3692 0.0539

Neptune 19739-05-21 15:50 G 8930722.11 8930722.16 8930722.23 0.0088 0.0080

Neptune 19739-08-17 17:31 G 8930810.16 8930810.23 8930810.33 0.0088 0.0073

Neptune 19739-11-13 19:40 G 8930898.22 8930898.32 8930898.42 0.0088 0.0065

Neptune 19740-02-09 21:21 G 8930986.29 8930986.39 8930986.51 0.0088 0.0058

Neptune 19740-05-07 23:16 G 8931074.36 8931074.47 8931074.60 0.0088 0.0051

Neptune 19740-08-04 01:12 G 8931162.43 8931162.55 8931162.69 0.0088 0.0043

Neptune 19740-10-31 03:07 G 8931250.50 8931250.63 8931250.78 0.0088 0.0036

Venus 19740-11-03 22:33 G 8931254.32 8931254.44 8931254.56 0.3679 0.1084

Neptune 19741-01-27 05:16 G 8931338.57 8931338.72 8931338.86 0.0088 0.0028

Neptune 19741-04-25 06:57 G 8931426.65 8931426.79 8931426.95 0.0088 0.0021

Neptune 19741-07-22 09:07 G 8931514.73 8931514.88 8931515.03 0.0088 0.0013

Neptune 19741-10-18 11:02 G 8931602.81 8931602.96 8931603.11 0.0088 0.0006

Uranus 19741-12-13 12:43 G 8931659.01 8931659.03 8931659.08 0.0133 0.0129

Neptune 19742-01-14 12:57 G 8931690.89 8931691.04 8931691.19 0.0088 0.0002

Uranus 19742-03-11 17:31 G 8931747.15 8931747.23 8931747.32 0.0133 0.0109

Neptune 19742-04-12 14:52 G 8931778.97 8931779.12 8931779.28 0.0088 0.0010

Uranus 19742-06-07 22:04 G 8931835.31 8931835.42 8931835.54 0.0133 0.0090

Neptune 19742-07-09 16:48 G 8931867.05 8931867.20 8931867.36 0.0088 0.0017

Uranus 19742-09-04 02:38 G 8931923.48 8931923.61 8931923.74 0.0133 0.0071

Neptune 19742-10-05 18:43 G 8931955.14 8931955.28 8931955.43 0.0088 0.0025

Uranus 19742-12-01 07:12 G 8932011.65 8932011.80 8932011.94 0.0133 0.0052

Neptune 19743-01-01 20:52 G 8932043.23 8932043.37 8932043.51 0.0088 0.0032

Uranus 19743-02-27 11:31 G 8932099.83 8932099.98 8932100.14 0.0133 0.0034

Neptune 19743-03-30 22:48 G 8932131.32 8932131.45 8932131.59 0.0088 0.0040

Uranus 19743-05-26 16:04 G 8932188.01 8932188.17 8932188.32 0.0133 0.0015

Neptune 19743-06-27 00:43 G 8932219.41 8932219.53 8932219.67 0.0088 0.0048

Mars 19743-07-01 04:48 G 8932223.60 8932223.70 8932223.81 0.1597 0.1102

Uranus 19743-08-22 20:24 G 8932276.19 8932276.35 8932276.50 0.0133 0.0004

Neptune 19743-09-23 02:38 G 8932307.50 8932307.61 8932307.74 0.0088 0.0056

Uranus 19743-11-19 00:43 G 8932364.38 8932364.53 8932364.68 0.0133 0.0022

Neptune 19743-12-20 04:48 G 8932395.60 8932395.70 8932395.81 0.0088 0.0063

Uranus 19744-02-15 05:02 G 8932452.56 8932452.71 8932452.86 0.0133 0.0041

Neptune 19744-03-17 06:43 G 8932483.70 8932483.78 8932483.88 0.0088 0.0071

Uranus 19744-05-13 09:07 G 8932540.75 8932540.88 8932541.03 0.0133 0.0059

Saturn 19744-06-11 07:26 G 8932569.71 8932569.81 8932569.93 0.0275 0.0182

Neptune 19744-06-13 08:38 G 8932571.81 8932571.86 8932571.94 0.0088 0.0079

Uranus 19744-08-09 13:26 G 8932628.94 8932629.06 8932629.19 0.0133 0.0077

Saturn 19744-09-07 21:21 G 8932658.25 8932658.39 8932658.54 0.0276 0.0082

Neptune 19744-09-09 10:33 G 8932659.94 8932659.94 8932659.98 0.0088 0.0087

Uranus 19744-11-05 17:31 G 8932717.13 8932717.23 8932717.35 0.0133 0.0095

Venus 19744-11-06 21:07 G 8932718.28 8932718.38 8932718.47 0.3692 0.2066

Saturn 19744-12-05 11:45 G 8932746.84 8932746.99 8932747.14 0.0276 0.0022

Jupiter 19745-01-28 05:02 G 8932800.61 8932800.71 8932800.82 0.0530 0.0398

Uranus 19745-02-01 21:36 G 8932805.34 8932805.40 8932805.49 0.0133 0.0113

Saturn 19745-03-04 02:24 G 8932835.46 8932835.60 8932835.73 0.0276 0.0128

Jupiter 19745-04-28 02:52 G 8932890.51 8932890.62 8932890.74 0.0533 0.0357

Uranus 19745-05-01 01:55 G 8932893.56 8932893.58 8932893.62 0.0133 0.0130

Saturn 19745-05-31 17:16 G 8932924.15 8932924.22 8932924.30 0.0277 0.0237

Venus 19746-05-20 20:38 G 8933278.23 8933278.36 8933278.48 0.3679 0.0835

Mars 19748-03-21 12:14 G 8933948.92 8933949.01 8933949.10 0.1932 0.1338

Moon 19749-05-31 13:26 G 8934384.95 8934385.06 8934385.17 0.2645 0.1421

Earth 19749-05-31 14:24 G 8934384.98 8934385.10 8934385.21 0.2649 0.1372 *

Venus 19750-05-23 16:04 G 8934742.14 8934742.17 8934742.19 0.3692 0.3547

Jupiter 19750-09-15 16:19 G 8934857.04 8934857.18 8934857.32 0.0498 0.0162

Jupiter 19750-12-14 03:36 G 8934946.57 8934946.65 8934946.73 0.0495 0.0412

Moon 19751-11-29 17:02 G 8935297.11 8935297.21 8935297.30 0.2682 0.1705

Earth 19751-11-29 18:00 G 8935297.15 8935297.25 8935297.35 0.2682 0.1644 *

Venus 19751-12-04 18:57 G 8935302.21 8935302.29 8935302.37 0.3678 0.2838

Mars 19752-11-20 12:14 G 8935653.87 8935654.01 8935654.15 0.1600 0.0389

Jupiter 19757-02-14 03:50 G 8937200.51 8937200.66 8937200.80 0.0532 0.0179

Saturn 19758-10-21 19:26 G 8937815.21 8937815.31 8937815.43 0.0284 0.0203

Saturn 19759-01-18 12:43 G 8937903.88 8937904.03 8937904.19 0.0283 0.0081

Saturn 19759-04-17 05:31 G 8937992.58 8937992.73 8937992.89 0.0283 0.0039

Saturn 19759-07-14 22:04 G 8938081.29 8938081.42 8938081.55 0.0283 0.0154

Saturn 19759-10-11 13:55 G 8938170.03 8938170.08 8938170.13 0.0283 0.0266

Mars 19762-04-12 19:40 G 8939084.18 8939084.32 8939084.46 0.1603 0.0316

Moon 19762-06-03 12:00 G 8939135.87 8939136.00 8939136.13 0.2651 0.0333

Earth 19762-06-03 12:57 G 8939135.92 8939136.04 8939136.17 0.2649 0.0562 *

Jupiter 19762-07-04 18:28 G 8939167.16 8939167.27 8939167.38 0.0499 0.0314

Jupiter 19762-10-02 05:31 G 8939256.61 8939256.73 8939256.86 0.0496 0.0257

Moon 19764-12-01 14:38 G 8940047.98 8940048.11 8940048.23 0.2688 0.0053

Earth 19764-12-01 15:07 G 8940048.01 8940048.13 8940048.26 0.2682 0.0136 *

Jupiter 19768-12-03 03:50 G 8941510.50 8941510.66 8941510.81 0.0531 0.0013

Mars 19768-12-08 04:48 G 8941515.60 8941515.70 8941515.79 0.1941 0.1289

Mars 19771-09-03 03:21 G 8942514.53 8942514.64 8942514.75 0.1606 0.1010

Saturn 19773-10-29 10:48 G 8943301.85 8943301.95 8943302.05 0.0275 0.0200

Saturn 19774-01-26 00:43 G 8943390.39 8943390.53 8943390.67 0.0275 0.0100

Jupiter 19774-04-22 21:36 G 8943477.34 8943477.40 8943477.45 0.0500 0.0455

Saturn 19774-04-24 14:52 G 8943478.97 8943479.12 8943479.27 0.0276 0.0004

Jupiter 19774-07-21 08:09 G 8943566.70 8943566.84 8943566.99 0.0497 0.0113

Saturn 19774-07-22 05:16 G 8943567.59 8943567.72 8943567.87 0.0276 0.0109

Saturn 19774-10-18 20:24 G 8943656.25 8943656.35 8943656.44 0.0276 0.0217

Moon 19775-06-06 10:48 G 8943886.90 8943886.95 8943887.00 0.2655 0.2410

Earth 19775-06-06 11:31 G 8943886.93 8943886.98 8943887.03 0.2650 0.2416 *

Earth 19777-12-04 12:43 G 8944798.94 8944799.03 8944799.11 0.2682 0.1971

Moon 19777-12-04 12:43 G 8944798.95 8944799.03 8944799.11 0.2688 0.2042 *

Mars 19778-04-30 08:38 G 8944945.73 8944945.86 8944945.99 0.1936 0.0043

Jupiter 19780-09-21 02:38 G 8945820.47 8945820.61 8945820.76 0.0530 0.0217

Jupiter 19780-12-20 00:00 G 8945910.49 8945910.50 8945910.52 0.0533 0.0528

Mars 19782-12-30 05:16 G 8946650.62 8946650.72 8946650.81 0.1597 0.1205

Uranus 19783-12-12 18:57 G 8946998.22 8946998.29 8946998.37 0.0146 0.0124

Uranus 19784-03-10 00:14 G 8947086.41 8947086.51 8947086.63 0.0146 0.0100

Uranus 19784-06-06 05:31 G 8947174.61 8947174.73 8947174.87 0.0146 0.0077

Uranus 19784-09-02 11:02 G 8947262.82 8947262.96 8947263.11 0.0146 0.0052

Venus 19784-10-29 09:07 G 8947319.79 8947319.88 8947319.97 0.3691 0.2228

Uranus 19784-11-29 16:33 G 8947351.04 8947351.19 8947351.35 0.0146 0.0028

Uranus 19785-02-25 22:04 G 8947439.27 8947439.42 8947439.58 0.0146 0.0004

Uranus 19785-05-25 03:36 G 8947527.50 8947527.65 8947527.81 0.0146 0.0022

Uranus 19785-08-21 09:21 G 8947615.74 8947615.89 8947616.04 0.0146 0.0047

Uranus 19785-11-17 14:52 G 8947703.98 8947704.12 8947704.26 0.0146 0.0072

Uranus 19786-02-13 20:24 G 8947792.24 8947792.35 8947792.48 0.0146 0.0098

Jupiter 19786-05-09 11:16 G 8947876.83 8947876.97 8947877.12 0.0497 0.0028

Uranus 19786-05-13 02:24 G 8947880.52 8947880.60 8947880.69 0.0145 0.0123

Mars 19787-09-20 12:28 G 8948375.92 8948376.02 8948376.12 0.1932 0.1202

Saturn 19788-03-09 22:04 G 8948547.32 8948547.42 8948547.52 0.0284 0.0226

Saturn 19788-06-06 15:21 G 8948635.99 8948636.14 8948636.29 0.0283 0.0103

Saturn 19788-09-03 08:09 G 8948724.69 8948724.84 8948725.00 0.0283 0.0017

Saturn 19788-12-01 00:28 G 8948813.39 8948813.52 8948813.66 0.0283 0.0133

Saturn 19789-02-27 16:33 G 8948902.12 8948902.19 8948902.27 0.0282 0.0245

Venus 19790-05-15 04:48 G 8949343.59 8949343.70 8949343.82 0.3691 0.0577

Venus 19791-11-26 00:14 G 8949903.41 8949903.51 8949903.60 0.3680 0.2333

Mars 19792-05-21 12:28 G 8950080.88 8950081.02 8950081.16 0.1600 0.0494

Jupiter 19792-07-10 02:38 G 8950130.51 8950130.61 8950130.71 0.0529 0.0408

Jupiter 19792-10-08 00:28 G 8950220.40 8950220.52 8950220.64 0.0533 0.0345

Moon 19795-06-01 18:57 G 8951187.17 8951187.29 8951187.41 0.2647 0.1120

Earth 19795-06-01 19:55 G 8951187.21 8951187.33 8951187.45 0.2649 0.0961 *

Venus 19795-11-29 00:14 G 8951367.40 8951367.51 8951367.62 0.3692 0.1022

Venus 19797-06-10 21:50 G 8951927.28 8951927.41 8951927.53 0.3679 0.0498

Moon 19797-11-29 22:19 G 8952099.33 8952099.43 8952099.53 0.2684 0.1448

Earth 19797-11-29 23:16 G 8952099.36 8952099.47 8952099.58 0.2682 0.1284 *

Jupiter 19798-02-25 14:24 G 8952186.96 8952187.10 8952187.24 0.0498 0.0164

Jupiter 19798-05-26 01:40 G 8952276.49 8952276.57 8952276.65 0.0495 0.0410

Venus 19801-06-14 19:26 G 8953391.23 8953391.31 8953391.39 0.3692 0.2549

Mars 19801-10-12 19:55 G 8953511.19 8953511.33 8953511.48 0.1603 0.0213

Venus 19802-12-26 19:55 G 8953951.21 8953951.33 8953951.44 0.3679 0.1459

Saturn 19803-03-19 11:45 G 8954033.92 8954033.99 8954034.08 0.0275 0.0233

Saturn 19803-06-16 01:40 G 8954122.44 8954122.57 8954122.70 0.0276 0.0133

Saturn 19803-09-12 15:50 G 8954211.01 8954211.16 8954211.31 0.0276 0.0031

Saturn 19803-12-10 06:14 G 8954299.61 8954299.76 8954299.91 0.0276 0.0074

Saturn 19804-03-07 20:52 G 8954388.26 8954388.37 8954388.49 0.0276 0.0181

Jupiter 19804-07-28 01:12 G 8954530.40 8954530.55 8954530.70 0.0532 0.0167

Moon 19808-06-04 17:31 G 8955938.11 8955938.23 8955938.35 0.2651 0.0892

Earth 19808-06-04 18:28 G 8955938.15 8955938.27 8955938.40 0.2650 0.0960 *

Mars 19808-06-09 05:02 G 8955942.62 8955942.71 8955942.79 0.1941 0.1417

Venus 19808-07-11 18:28 G 8955975.23 8955975.27 8955975.30 0.3678 0.3495

Jupiter 19809-12-15 17:31 G 8956497.11 8956497.23 8956497.34 0.0499 0.0304

Jupiter 19810-03-15 04:19 G 8956586.56 8956586.68 8956586.81 0.0496 0.0267

Moon 19810-12-03 19:55 G 8956850.21 8956850.33 8956850.45 0.2688 0.0503

Earth 19810-12-03 20:24 G 8956850.23 8956850.35 8956850.48 0.2682 0.0506 *

Mars 19811-03-05 03:36 G 8956941.53 8956941.65 8956941.76 0.1606 0.0906

Jupiter 19816-05-16 01:55 G 8958840.42 8958840.58 8958840.73 0.0531 0.0013

Saturn 19817-07-28 21:21 G 8959279.35 8959279.39 8959279.44 0.0284 0.0270

Saturn 19817-10-25 14:52 G 8959367.99 8959368.12 8959368.26 0.0284 0.0146

Mars 19817-10-30 09:07 G 8959372.75 8959372.88 8959373.01 0.1937 0.0197

Saturn 19818-01-22 07:55 G 8959456.68 8959456.83 8959456.99 0.0283 0.0025

Saturn 19818-04-21 00:28 G 8959545.38 8959545.52 8959545.67 0.0283 0.0093

Saturn 19818-07-18 16:48 G 8959634.10 8959634.20 8959634.30 0.0283 0.0207

Mars 19820-07-25 11:16 G 8960371.95 8960371.97 8960371.98 0.1609 0.1595

Pluto 19820-11-24 11:45 G 8960493.93 8960493.99 8960494.10 0.0074 0.0067

Pluto 19821-02-20 14:24 G 8960581.98 8960582.10 8960582.26 0.0074 0.0051

Pluto 19821-05-19 17:16 G 8960670.05 8960670.22 8960670.39 0.0073 0.0035

Pluto 19821-08-15 19:26 G 8960758.13 8960758.31 8960758.51 0.0073 0.0020

Jupiter 19821-10-03 19:40 G 8960807.27 8960807.32 8960807.38 0.0500 0.0454

Pluto 19821-11-11 22:04 G 8960846.23 8960846.42 8960846.62 0.0073 0.0004

Jupiter 19822-01-01 06:28 G 8960896.63 8960896.77 8960896.91 0.0497 0.0112

Pluto 19822-02-08 00:28 G 8960934.33 8960934.52 8960934.72 0.0073 0.0012

Pluto 19822-05-07 03:07 G 8961022.45 8961022.63 8961022.81 0.0073 0.0027

Mars 19822-07-01 05:31 G 8961077.65 8961077.73 8961077.81 0.1597 0.1313

Pluto 19822-08-03 05:02 G 8961110.57 8961110.71 8961110.88 0.0073 0.0043

Neptune 19822-08-19 07:12 G 8961126.78 8961126.80 8961126.85 0.0089 0.0087

Pluto 19822-10-30 07:26 G 8961198.71 8961198.81 8961198.94 0.0073 0.0058

Neptune 19822-11-15 09:50 G 8961214.84 8961214.91 8961215.00 0.0089 0.0078

Neptune 19823-02-11 12:28 G 8961302.92 8961303.02 8961303.12 0.0089 0.0070

Neptune 19823-05-10 14:38 G 8961391.00 8961391.11 8961391.24 0.0089 0.0061

Neptune 19823-08-06 17:16 G 8961479.09 8961479.22 8961479.35 0.0089 0.0053

Neptune 19823-11-02 19:26 G 8961567.18 8961567.31 8961567.46 0.0089 0.0044

Earth 19823-12-06 18:00 G 8961601.19 8961601.25 8961601.31 0.2682 0.2347

Moon 19823-12-06 18:14 G 8961601.20 8961601.26 8961601.32 0.2688 0.2321 *

Neptune 19824-01-29 22:04 G 8961655.27 8961655.42 8961655.57 0.0089 0.0036

Neptune 19824-04-27 00:14 G 8961743.37 8961743.51 8961743.68 0.0089 0.0028

Neptune 19824-07-24 02:52 G 8961831.46 8961831.62 8961831.78 0.0089 0.0019

Neptune 19824-10-20 05:16 G 8961919.56 8961919.72 8961919.88 0.0089 0.0010

Neptune 19825-01-16 07:26 G 8962007.65 8962007.81 8962007.98 0.0089 0.0003

Neptune 19825-04-14 09:50 G 8962095.75 8962095.91 8962096.07 0.0089 0.0007

Neptune 19825-07-11 12:00 G 8962183.85 8962184.00 8962184.17 0.0089 0.0016

Neptune 19825-10-07 14:24 G 8962271.95 8962272.10 8962272.26 0.0089 0.0023

Neptune 19826-01-03 16:48 G 8962360.05 8962360.20 8962360.35 0.0089 0.0031

Uranus 19826-01-03 20:52 G 8962360.31 8962360.37 8962360.45 0.0133 0.0120 *

Neptune 19826-04-01 18:57 G 8962448.15 8962448.29 8962448.44 0.0089 0.0040

Uranus 19826-04-02 01:26 G 8962448.47 8962448.56 8962448.67 0.0133 0.0101

Neptune 19826-06-28 21:21 G 8962536.26 8962536.39 8962536.53 0.0089 0.0048

Uranus 19826-06-29 06:00 G 8962536.64 8962536.75 8962536.88 0.0133 0.0082

Neptune 19826-09-24 23:16 G 8962624.36 8962624.47 8962624.61 0.0089 0.0057

Uranus 19826-09-25 10:33 G 8962624.81 8962624.94 8962625.09 0.0133 0.0063

Neptune 19826-12-22 01:40 G 8962712.47 8962712.57 8962712.69 0.0089 0.0064

Uranus 19826-12-22 15:07 G 8962712.98 8962713.13 8962713.28 0.0133 0.0044

Neptune 19827-03-20 03:50 G 8962800.58 8962800.66 8962800.77 0.0089 0.0073

Uranus 19827-03-20 19:40 G 8962801.16 8962801.32 8962801.47 0.0133 0.0025

Mars 19827-03-22 12:43 G 8962802.93 8962803.03 8962803.14 0.1932 0.1068

Neptune 19827-06-16 06:00 G 8962888.70 8962888.75 8962888.84 0.0089 0.0081

Uranus 19827-06-17 00:00 G 8962889.35 8962889.50 8962889.66 0.0133 0.0006

Neptune 19827-09-12 08:24 G 8962976.84 8962976.85 8962976.88 0.0089 0.0088

Uranus 19827-09-13 04:19 G 8962977.53 8962977.68 8962977.84 0.0133 0.0013

Uranus 19827-12-10 08:38 G 8963065.71 8963065.86 8963066.02 0.0133 0.0031

Jupiter 19828-03-04 01:40 G 8963150.43 8963150.57 8963150.72 0.0530 0.0202

Uranus 19828-03-07 12:57 G 8963153.90 8963154.04 8963154.19 0.0133 0.0049

Moon 19828-05-31 01:55 G 8963238.55 8963238.58 8963238.61 0.2643 0.2568

Earth 19828-05-31 02:24 G 8963238.56 8963238.60 8963238.63 0.2649 0.2537 *

Uranus 19828-06-03 17:16 G 8963242.09 8963242.22 8963242.36 0.0133 0.0067

Uranus 19828-08-30 21:36 G 8963330.28 8963330.40 8963330.52 0.0133 0.0085

Uranus 19828-11-27 01:40 G 8963418.48 8963418.57 8963418.67 0.0133 0.0103

Uranus 19829-02-23 05:45 G 8963506.69 8963506.74 8963506.81 0.0133 0.0121

Earth 19830-11-29 07:26 G 8964150.80 8964150.81 8964150.82 0.2682 0.2660

Mars 19831-11-21 12:43 G 8964507.90 8964508.03 8964508.16 0.1600 0.0599

Saturn	19832-08-05 14:52 G	8964766.07	8964766.12	8964766.18	0.0275	0.0252
Saturn	19832-11-02 04:33 G	8964854.57	8964854.69	8964854.82	0.0275	0.0153
Saturn	19833-01-29 18:43 G	8964943.13	8964943.28	8964943.43	0.0276	0.0051
Saturn	19833-04-28 09:07 G	8965031.73	8965031.88	8965032.03	0.0276	0.0053
Saturn	19833-07-25 23:45 G	8965120.37	8965120.49	8965120.62	0.0276	0.0160
Jupiter	19833-10-20 09:07 G	8965206.74	8965206.88	8965207.03	0.0497	0.0033
Saturn	19833-10-22 14:52 G	8965209.09	8965209.12	8965209.15	0.0277	0.0269
Venus	19835-11-21 11:45 G	8965968.95	8965968.99	8965969.03	0.3690	0.3404
Jupiter	19839-12-22 00:28 G	8967460.42	8967460.52	8967460.62	0.0529	0.0410
Jupiter	19840-03-20 22:19 G	8967550.32	8967550.43	8967550.55	0.0532	0.0343
Mars	19841-04-12 20:09 G	8967938.20	8967938.34	8967938.48	0.1603	0.0110
Moon	19841-06-03 00:14 G	8967989.38	8967989.51	8967989.64	0.2648	0.0704
Earth	19841-06-03 01:26 G	8967989.43	8967989.56	8967989.69	0.2649	0.0565 *
Venus	19841-06-06 07:40 G	8967992.72	8967992.82	8967992.93	0.3691	0.1695
Venus	19842-12-18 01:55 G	8968552.55	8968552.58	8968552.61	0.3680	0.3537
Moon	19843-12-02 03:36 G	8968901.54	8968901.65	8968901.77	0.2686	0.1021
Earth	19843-12-02 04:33 G	8968901.57	8968901.69	8968901.80	0.2682	0.0927 *
Jupiter	19845-08-08 12:14 G	8969516.88	8969517.01	8969517.15	0.0498	0.0169
Jupiter	19845-11-05 23:45 G	8969606.41	8969606.49	8969606.57	0.0495	0.0407
Venus	19846-12-21 03:21 G	8970016.52	8970016.64	8970016.76	0.3691	0.0067
Saturn	19847-03-14 17:45 G	8970100.11	8970100.24	8970100.37	0.0284	0.0166
Saturn	19847-06-11 10:48 G	8970188.80	8970188.95	8970189.11	0.0283	0.0046
Saturn	19847-09-08 03:36 G	8970277.50	8970277.65	8970277.80	0.0283	0.0073
Saturn	19847-12-05 19:40 G	8970366.21	8970366.32	8970366.44	0.0283	0.0188
Mars	19847-12-09 05:02 G	8970369.64	8970369.71	8970369.79	0.1941	0.1538
Venus	19848-07-02 23:16 G	8970576.36	8970576.47	8970576.58	0.3680	0.1756
Mars	19850-09-03 03:50 G	8971368.54	8971368.66	8971368.78	0.1606	0.0801
Jupiter	19852-01-07 22:33 G	8971860.30	8971860.44	8971860.59	0.0532	0.0157
Venus	19852-07-05 22:48 G	8972040.34	8972040.45	8972040.55	0.3692	0.1522
Venus	19854-01-16 20:52 G	8972600.25	8972600.37	8972600.50	0.3679	0.0148

Moon 19854-06-05 23:02 G 8972740.35 8972740.46 8972740.58 0.2652 0.1163

Earth 19854-06-06 00:00 G 8972740.39 8972740.50 8972740.61 0.2650 0.1346 *

Moon 19856-12-04 01:12 G 8973652.43 8973652.55 8973652.67 0.2688 0.0760

Earth 19856-12-04 01:40 G 8973652.45 8973652.57 8973652.69 0.2682 0.0876 *

Mars 19857-04-30 09:21 G 8973799.76 8973799.89 8973800.02 0.1937 0.0323

Jupiter 19857-05-27 15:36 G 8973827.03 8973827.15 8973827.26 0.0499 0.0306

Jupiter 19857-08-25 02:24 G 8973916.48 8973916.60 8973916.73 0.0496 0.0265

Venus 19858-01-19 17:45 G 8974064.18 8974064.24 8974064.31 0.3692 0.3033

Venus 19859-08-02 19:12 G 8974624.20 8974624.30 8974624.40 0.3679 0.2093

Mars 19860-01-24 11:31 G 8974798.93 8974798.98 8974799.03 0.1609 0.1490

Mars 19861-12-30 05:45 G 8975504.68 8975504.74 8975504.81 0.1597 0.1426

Saturn 19862-03-22 06:00 G 8975586.65 8975586.75 8975586.86 0.0275 0.0184

Saturn 19862-06-18 19:55 G 8975675.19 8975675.33 8975675.48 0.0276 0.0084

Saturn 19862-09-15 10:19 G 8975763.78 8975763.93 8975764.08 0.0276 0.0020

Saturn 19862-12-13 00:43 G 8975852.40 8975852.53 8975852.67 0.0276 0.0127

Saturn 19863-03-11 15:36 G 8975941.08 8975941.15 8975941.24 0.0277 0.0235

Jupiter 19863-10-26 23:02 G 8976170.31 8976170.46 8976170.62 0.0531 0.0027

Mars 19866-09-20 13:12 G 8977229.93 8977230.05 8977230.16 0.1932 0.0933

Uranus 19867-10-06 21:07 G 8977611.35 8977611.38 8977611.42 0.0146 0.0141

Uranus 19868-01-03 02:09 G 8977699.52 8977699.59 8977699.69 0.0146 0.0118

Uranus 19868-03-31 07:40 G 8977787.71 8977787.82 8977787.94 0.0146 0.0094

Uranus 19868-06-27 12:57 G 8977875.91 8977876.04 8977876.19 0.0146 0.0070

Uranus 19868-09-23 18:28 G 8977964.13 8977964.27 8977964.43 0.0146 0.0046

Uranus 19868-12-21 00:00 G 8978052.35 8978052.50 8978052.66 0.0146 0.0021

Jupiter 19869-03-15 18:28 G 8978137.21 8978137.27 8978137.34 0.0500 0.0445

Uranus 19869-03-19 05:31 G 8978140.58 8978140.73 8978140.89 0.0146 0.0006

Jupiter 19869-06-13 05:16 G 8978226.58 8978226.72 8978226.86 0.0496 0.0122

Uranus 19869-06-15 11:16 G 8978228.81 8978228.97 8978229.12 0.0146 0.0029

Uranus 19869-09-11 16:48 G 8978317.05 8978317.20 8978317.35 0.0146 0.0054

Uranus 19869-12-08 22:19 G 8978405.30 8978405.43 8978405.57 0.0146 0.0079

Uranus 19870-03-07 04:04 G 8978493.56 8978493.67 8978493.78 0.0146 0.0105

Uranus 19870-06-03 09:36 G 8978581.85 8978581.90 8978581.98 0.0146 0.0131

Mars 19871-05-22 13:12 G 8978934.92 8978935.05 8978935.17 0.1599 0.0712

Moon 19874-06-01 07:12 G 8980040.74 8980040.80 8980040.87 0.2644 0.2258

Earth 19874-06-01 07:55 G 8980040.75 8980040.83 8980040.91 0.2649 0.2127 *

Jupiter 19875-08-14 23:45 G 8980480.34 8980480.49 8980480.63 0.0530 0.0205

Saturn 19876-07-31 17:02 G 8980832.11 8980832.21 8980832.32 0.0284 0.0210

Saturn 19876-10-28 10:19 G 8980920.78 8980920.93 8980921.08 0.0283 0.0088

Moon 19876-11-29 11:45 G 8980952.95 8980952.99 8980953.04 0.2680 0.2457

Earth 19876-11-29 12:43 G 8980952.97 8980953.03 8980953.09 0.2682 0.2307 *

Saturn 19877-01-25 03:07 G 8981009.48 8981009.63 8981009.79 0.0283 0.0032

Saturn 19877-04-23 19:26 G 8981098.18 8981098.31 8981098.45 0.0283 0.0148

Saturn 19877-07-21 11:31 G 8981186.93 8981186.98 8981187.04 0.0282 0.0260

Mars 19880-10-11 20:24 G 8982365.21 8982365.35 8982365.50 0.1602 0.0040

Jupiter 19881-04-01 07:26 G 8982536.66 8982536.81 8982536.96 0.0497 0.0031

Jupiter 19887-06-02 23:31 G 8984790.38 8984790.48 8984790.58 0.0529 0.0396

Moon 19887-06-04 05:45 G 8984791.61 8984791.74 8984791.87 0.2648 0.0298

Earth 19887-06-04 06:57 G 8984791.66 8984791.79 8984791.92 0.2649 0.0162 *

Mars 19887-06-09 05:31 G 8984796.67 8984796.73 8984796.79 0.1941 0.1679

Jupiter 19887-08-31 21:36 G 8984880.28 8984880.40 8984880.51 0.0532 0.0358

Moon 19889-12-02 08:52 G 8985703.75 8985703.87 8985703.99 0.2686 0.0665

Earth 19889-12-02 09:50 G 8985703.78 8985703.91 8985704.03 0.2682 0.0564 *

Mars 19890-03-04 04:04 G 8985795.54 8985795.67 8985795.79 0.1606 0.0702

Saturn 19891-08-09 08:38 G 8986318.77 8986318.86 8986318.96 0.0275 0.0206

Saturn 19891-11-05 22:33 G 8986407.31 8986407.44 8986407.58 0.0276 0.0106

Saturn 19892-02-02 12:43 G 8986495.88 8986496.03 8986496.19 0.0276 0.0008

Saturn 19892-05-01 03:21 G 8986584.50 8986584.64 8986584.78 0.0276 0.0103

Venus 19892-06-27 10:33 G 8986641.86 8986641.94 8986642.01 0.3691 0.2858

Saturn 19892-07-28 18:00 G 8986673.16 8986673.25 8986673.36 0.0276 0.0212

Jupiter 19893-01-18 10:19 G 8986846.79 8986846.93 8986847.06 0.0498 0.0174

Jupiter 19893-04-17 21:36 G 8986936.31 8986936.40 8986936.48 0.0495 0.0401

Mars 19896-10-29 09:36 G 8988226.77 8988226.90 8988227.02 0.1937 0.0450

Venus 19898-01-11 06:28 G 8988665.65 8988665.77 8988665.88 0.3691 0.1172

Jupiter 19899-06-19 20:38 G 8989190.21 8989190.36 8989190.51 0.0531 0.0154

Venus 19899-07-25 00:57 G 8989225.47 8989225.54 8989225.61 0.3680 0.2978

Mars 19899-07-25 11:45 G 8989225.92 8989225.99 8989226.06 0.1609 0.1390

Moon 19900-06-07 04:48 G 8989542.59 8989542.70 8989542.80 0.2654 0.1661

Earth 19900-06-07 05:31 G 8989542.63 8989542.73 8989542.83 0.2650 0.1731 *

Mars 19901-07-01 06:00 G 8989931.72 8989931.75 8989931.79 0.1597 0.1532

Moon 19902-12-06 06:43 G 8990454.67 8990454.78 8990454.89 0.2688 0.1258

Earth 19902-12-06 06:57 G 8990454.68 8990454.79 8990454.90 0.2682 0.1249 *

Venus 19903-07-29 01:55 G 8990689.46 8990689.58 8990689.70 0.3692 0.0456

Neptune 19903-11-21 12:28 G 8990805.01 8990805.02 8990805.06 0.0088 0.0086

Neptune 19904-02-17 14:24 G 8990893.05 8990893.10 8990893.17 0.0088 0.0079

Neptune 19904-05-15 16:04 G 8990981.10 8990981.17 8990981.27 0.0088 0.0072

Neptune 19904-08-11 18:14 G 8991069.16 8991069.26 8991069.37 0.0088 0.0064

Jupiter 19904-11-07 13:26 G 8991156.95 8991157.06 8991157.17 0.0499 0.0310

Neptune 19904-11-07 19:55 G 8991157.23 8991157.33 8991157.46 0.0088 0.0057

Neptune 19905-02-03 21:50 G 8991245.30 8991245.41 8991245.55 0.0088 0.0050

Jupiter 19905-02-05 00:28 G 8991246.40 8991246.52 8991246.65 0.0496 0.0261

Venus 19905-02-07 22:19 G 8991249.31 8991249.43 8991249.55 0.3679 0.1172

Neptune 19905-05-02 23:45 G 8991333.37 8991333.49 8991333.63 0.0088 0.0042

Neptune 19905-07-30 01:40 G 8991421.44 8991421.57 8991421.72 0.0088 0.0035

Neptune 19905-10-26 03:50 G 8991509.51 8991509.66 8991509.80 0.0088 0.0027

Saturn 19905-12-19 19:55 G 8991564.24 8991564.33 8991564.43 0.0284 0.0230

Neptune 19906-01-22 05:31 G 8991597.59 8991597.73 8991597.89 0.0088 0.0020

Saturn 19906-03-18 13:26 G 8991652.91 8991653.06 8991653.21 0.0284 0.0107

Mars 19906-03-22 13:26 G 8991656.94 8991657.06 8991657.17 0.1933 0.0807

Neptune 19906-04-20 07:40 G 8991685.67 8991685.82 8991685.97 0.0088 0.0012

Saturn 19906-06-15 06:14 G 8991741.60 8991741.76 8991741.92 0.0283 0.0013

Neptune 19906-07-17 09:36 G 8991773.75 8991773.90 8991774.05 0.0088 0.0005

Saturn 19906-09-11 22:48 G 8991830.31 8991830.45 8991830.59 0.0283 0.0129

Neptune 19906-10-13 11:31 G 8991861.83 8991861.98 8991862.13 0.0088 0.0003

Saturn 19906-12-09 14:38 G 8991919.04 8991919.11 8991919.19 0.0283 0.0242

Neptune 19907-01-09 13:26 G 8991949.91 8991950.06 8991950.21 0.0088 0.0010

Neptune 19907-04-07 15:21 G 8992037.99 8992038.14 8992038.29 0.0088 0.0018

Neptune 19907-07-04 17:16 G 8992126.08 8992126.22 8992126.37 0.0088 0.0026

Neptune 19907-09-30 19:26 G 8992214.16 8992214.31 8992214.45 0.0088 0.0033

Neptune 19907-12-27 21:07 G 8992302.25 8992302.38 8992302.53 0.0088 0.0041

Neptune 19908-03-24 23:02 G 8992390.34 8992390.46 8992390.60 0.0088 0.0049

Neptune 19908-06-21 00:57 G 8992478.44 8992478.54 8992478.68 0.0088 0.0057

Neptune 19908-09-17 03:21 G 8992566.54 8992566.64 8992566.75 0.0088 0.0064

Neptune 19908-12-14 05:16 G 8992654.64 8992654.72 8992654.81 0.0088 0.0072

Venus 19909-02-10 21:07 G 8992713.29 8992713.38 8992713.48 0.3692 0.2016

Neptune 19909-03-12 07:12 G 8992742.75 8992742.80 8992742.87 0.0088 0.0080

Neptune 19909-06-08 09:21 G 8992830.89 8992830.89 8992830.90 0.0088 0.0088

Uranus 19909-10-29 00:14 G 8992973.50 8992973.51 8992973.55 0.0133 0.0131

Uranus 19910-01-25 05:02 G 8993061.63 8993061.71 8993061.80 0.0133 0.0111

Uranus 19910-04-23 09:36 G 8993149.79 8993149.90 8993150.02 0.0133 0.0092

Uranus 19910-07-20 14:09 G 8993237.97 8993238.09 8993238.23 0.0133 0.0073

Venus 19910-08-24 20:09 G 8993273.22 8993273.34 8993273.46 0.3679 0.0732

Uranus 19910-10-16 18:43 G 8993326.14 8993326.28 8993326.43 0.0133 0.0054

Mars 19910-11-21 13:26 G 8993361.93 8993362.06 8993362.18 0.1600 0.0816

Uranus 19911-01-12 23:16 G 8993414.32 8993414.47 8993414.62 0.0133 0.0035

Jupiter 19911-04-08 20:38 G 8993500.20 8993500.36 8993500.51 0.0531 0.0035

Uranus 19911-04-11 03:36 G 8993502.50 8993502.65 8993502.81 0.0133 0.0017

Uranus 19911-07-08 08:09 G 8993590.68 8993590.84 8993590.99 0.0133 0.0003

Uranus 19911-10-04 12:28 G 8993678.87 8993679.02 8993679.17 0.0133 0.0021

Uranus 19911-12-31 16:48 G 8993767.05 8993767.20 8993767.35 0.0133 0.0039

Uranus 19912-03-28 20:52 G 8993855.24 8993855.37 8993855.52 0.0133 0.0058

Uranus 19912-06-25 01:12 G 8993943.43 8993943.55 8993943.68 0.0133 0.0076

Uranus 19912-09-21 05:16 G 8994031.63 8994031.72 8994031.84 0.0133 0.0094

Uranus 19912-12-18 09:50 G 8994119.83 8994119.91 8994119.99 0.0133 0.0111

Uranus 19913-03-16 13:55 G 8994208.05 8994208.08 8994208.12 0.0133 0.0129

Venus 19914-08-27 16:04 G 8994737.14 8994737.17 8994737.21 0.3693 0.3512

Venus 19916-03-09 18:28 G 8995297.19 8995297.27 8995297.36 0.3678 0.2735

Jupiter 19916-08-26 16:48 G 8995467.14 8995467.20 8995467.26 0.0500 0.0446

Jupiter 19916-11-24 03:21 G 8995556.50 8995556.64 8995556.78 0.0497 0.0121

Mars 19920-04-12 20:52 G 8996792.23 8996792.37 8996792.51 0.1602 0.0110

Moon 19920-06-02 12:43 G 8996842.93 8996843.03 8996843.13 0.2646 0.1755

Earth 19920-06-02 13:26 G 8996842.96 8996843.06 8996843.16 0.2649 0.1716 *

Saturn 19920-12-27 10:19 G 8997050.86 8997050.93 8997051.01 0.0275 0.0235

Saturn 19921-03-26 00:00 G 8997139.38 8997139.50 8997139.63 0.0276 0.0136

Saturn 19921-06-22 14:09 G 8997227.94 8997228.09 8997228.24 0.0276 0.0034

Saturn 19921-09-19 04:33 G 8997316.54 8997316.69 8997316.84 0.0276 0.0071

Saturn 19921-12-16 19:12 G 8997405.19 8997405.30 8997405.42 0.0276 0.0178

Moon 19922-12-01 17:02 G 8997755.13 8997755.21 8997755.29 0.2682 0.2012

Earth 19922-12-01 18:00 G 8997755.17 8997755.25 8997755.33 0.2682 0.1949 *

Jupiter 19923-01-25 20:52 G 8997810.23 8997810.37 8997810.51 0.0530 0.0220

Jupiter 19923-04-25 18:14 G 8997900.25 8997900.26 8997900.28 0.0533 0.0529

Mars 19926-12-09 05:45 G 8999223.69 8999223.74 8999223.78 0.1941 0.1810

Jupiter 19928-09-12 06:14 G 8999866.62 8999866.76 8999866.91 0.0497 0.0023

Mars 19929-09-03 04:19 G 9000222.55 9000222.68 9000222.81 0.1605 0.0594

Moon 19933-06-05 11:16 G 9001593.84 9001593.97 9001594.10 0.2649 0.0071

Earth 19933-06-05 12:28 G 9001593.89 9001594.02 9001594.15 0.2649 0.0240 *

Jupiter 19934-11-13 21:21 G 9002120.29 9002120.39 9002120.49 0.0529 0.0400

Jupiter 19935-02-11 19:26 G 9002210.20 9002210.31 9002210.42 0.0533 0.0355

Saturn 19935-05-08 19:12 G 9002296.26 9002296.30 9002296.34 0.0284 0.0275

Saturn 19935-08-05 12:43 G 9002384.90 9002385.03 9002385.16 0.0283 0.0151

Saturn 19935-11-02 05:45 G 9002473.58 9002473.74 9002473.90 0.0283 0.0030

Moon 19935-12-04 14:09 G 9002505.97 9002506.09 9002506.22 0.2686 0.0324

Earth 19935-12-04 15:07 G 9002506.00 9002506.13 9002506.25 0.2682 0.0213 *

Saturn 19936-01-29 22:19 G 9002562.29 9002562.43 9002562.58 0.0283 0.0088

Saturn 19936-04-27 14:38 G 9002651.00 9002651.11 9002651.22 0.0282 0.0202

Mars 19936-04-30 09:50 G 9002653.78 9002653.91 9002654.03 0.1937 0.0581

Mars 19939-01-24 12:00 G 9003652.92 9003653.00 9003653.08 0.1609 0.1290

Jupiter 19940-07-01 08:38 G 9004176.72 9004176.86 9004177.00 0.0498 0.0171

Jupiter 19940-09-28 19:55 G 9004266.24 9004266.33 9004266.41 0.0495 0.0403

Mars 19945-09-20 13:40 G 9006083.95 9006084.07 9006084.20 0.1932 0.0662

Moon 19946-06-08 10:19 G 9006344.85 9006344.93 9006345.01 0.2655 0.2030

Earth 19946-06-08 11:02 G 9006344.88 9006344.96 9006345.03 0.2650 0.2119 *

Jupiter 19946-11-30 19:40 G 9006520.18 9006520.32 9006520.47 0.0532 0.0170

Earth 19948-12-06 12:14 G 9007256.91 9007257.01 9007257.11 0.2682 0.1623

Moon 19948-12-06 12:14 G 9007256.92 9007257.01 9007257.11 0.2689 0.1619 *

Venus 19949-02-02 09:07 G 9007314.79 9007314.88 9007314.97 0.3691 0.2311

Saturn 19950-05-16 12:28 G 9007782.98 9007783.02 9007783.07 0.0275 0.0260

Mars 19950-05-22 13:40 G 9007788.95 9007789.07 9007789.18 0.1599 0.0922

Saturn 19950-08-13 02:09 G 9007871.47 9007871.59 9007871.71 0.0276 0.0162

Saturn 19950-11-09 16:19 G 9007960.03 9007960.18 9007960.32 0.0276 0.0060

Saturn 19951-02-06 06:28 G 9008048.62 9008048.77 9008048.92 0.0276 0.0045

Saturn 19951-05-05 21:07 G 9008137.26 9008137.38 9008137.51 0.0276 0.0152

Saturn 19951-08-02 12:14 G 9008225.96 9008226.01 9008226.06 0.0277 0.0261

Uranus 19951-10-28 04:48 G 9008312.65 9008312.70 9008312.77 0.0146 0.0133

Uranus 19952-01-24 10:19 G 9008400.83 9008400.93 9008401.03 0.0146 0.0109

Jupiter 19952-04-19 11:31 G 9008486.87 9008486.98 9008487.09 0.0499 0.0313

Uranus 19952-04-21 15:36 G 9008489.03 9008489.15 9008489.28 0.0146 0.0085

Jupiter 19952-07-17 22:33 G 9008576.31 9008576.44 9008576.56 0.0496 0.0257

Uranus 19952-07-18 21:07 G 9008577.24 9008577.38 9008577.52 0.0146 0.0061

Uranus 19952-10-15 02:24 G 9008665.45 9008665.60 9008665.76 0.0146 0.0037

Uranus 19953-01-11 07:55 G 9008753.68 9008753.83 9008753.99 0.0146 0.0013

Uranus	19953-04-09 13:26 G	9008841.91	9008842.06	9008842.22	0.0146	0.0013
Uranus	19953-07-06 18:57 G	9008930.14	9008930.29	9008930.45	0.0146	0.0038
Uranus	19953-10-03 00:43 G	9009018.39	9009018.53	9009018.67	0.0146	0.0063
Uranus	19953-12-30 06:28 G	9009106.64	9009106.77	9009106.89	0.0146	0.0088
Uranus	19954-03-28 12:00 G	9009194.91	9009195.00	9009195.10	0.0146	0.0113
Uranus	19954-06-24 17:45 G	9009283.20	9009283.24	9009283.29	0.0145	0.0139
Venus	19954-08-19 04:48 G	9009338.59	9009338.70	9009338.82	0.3691	0.0659
Venus	19956-02-29 23:45 G	9009898.40	9009898.49	9009898.59	0.3680	0.2419
Jupiter	19958-09-18 18:43 G	9010830.12	9010830.28	9010830.44	0.0530	0.0035
Mars	19959-10-12 21:07 G	9011219.24	9011219.38	9011219.52	0.1602	0.0213
Venus	19960-03-04 00:28 G	9011362.40	9011362.52	9011362.63	0.3692	0.0968
Venus	19961-09-14 21:21 G	9011922.27	9011922.39	9011922.51	0.3679	0.0590
Jupiter	19964-02-06 14:52 G	9012797.06	9012797.12	9012797.18	0.0500	0.0449
Jupiter	19964-05-06 01:26 G	9012886.42	9012886.56	9012886.70	0.0497	0.0119
Saturn	19964-12-22 15:36 G	9013117.02	9013117.15	9013117.28	0.0284	0.0172
Saturn	19965-03-21 08:38 G	9013205.71	9013205.86	9013206.02	0.0283	0.0051
Saturn	19965-06-18 01:26 G	9013294.41	9013294.56	9013294.71	0.0283	0.0068
Saturn	19965-09-14 17:45 G	9013383.12	9013383.24	9013383.36	0.0283	0.0183
Venus	19965-09-17 19:40 G	9013386.23	9013386.32	9013386.40	0.3692	0.2506
Moon	19966-06-03 18:00 G	9013645.15	9013645.25	9013645.36	0.2646	0.1520
Earth	19966-06-03 19:12 G	9013645.18	9013645.30	9013645.41	0.2650	0.1308 *
Mars	19966-06-09 05:45 G	9013650.73	9013650.74	9013650.75	0.1941	0.1930
Venus	19967-03-31 19:26 G	9013946.19	9013946.31	9013946.43	0.3679	0.1353
Moon	19968-12-01 22:19 G	9014557.34	9014557.43	9014557.52	0.2684	0.1790
Earth	19968-12-01 23:16 G	9014557.37	9014557.47	9014557.57	0.2682	0.1590 *
Mars	19969-03-04 04:33 G	9014649.56	9014649.69	9014649.83	0.1605	0.0491
Jupiter	19970-07-07 18:28 G	9015140.13	9015140.27	9015140.42	0.0530	0.0227
Jupiter	19970-10-05 16:04 G	9015230.14	9015230.17	9015230.20	0.0533	0.0520
Venus	19972-10-14 17:45 G	9015970.19	9015970.24	9015970.29	0.3678	0.3375
Mars	19975-10-30 10:04 G	9017080.80	9017080.92	9017081.04	0.1937	0.0727

Jupiter 19976-02-23 04:33 G 9017196.54 9017196.69 9017196.83 0.0498 0.0021

Mars 19978-07-25 12:14 G 9018079.92 9018080.01 9018080.11 0.1609 0.1184

Moon 19979-06-06 16:48 G 9018396.08 9018396.20 9018396.33 0.2650 0.0555

Earth 19979-06-06 18:00 G 9018396.12 9018396.25 9018396.38 0.2650 0.0635 *

Saturn 19979-12-31 03:50 G 9018603.56 9018603.66 9018603.77 0.0275 0.0190

Saturn 19980-03-28 17:45 G 9018692.10 9018692.24 9018692.38 0.0276 0.0090

Saturn 19980-06-25 08:09 G 9018780.69 9018780.84 9018780.99 0.0276 0.0015

Saturn 19980-09-21 22:33 G 9018869.30 9018869.44 9018869.58 0.0276 0.0119

Saturn 19980-12-19 13:26 G 9018957.98 9018958.06 9018958.15 0.0277 0.0228

Moon 19981-12-04 19:40 G 9019308.19 9019308.32 9019308.44 0.2687 0.0125

Earth 19981-12-04 20:24 G 9019308.22 9019308.35 9019308.47 0.2682 0.0188 *

Pluto 19982-02-19 11:02 G 9019384.96 9019384.96 9019385.01 0.0070 0.0070

Jupiter 19982-04-25 18:28 G 9019450.18 9019450.27 9019450.37 0.0529 0.0414

Pluto 19982-05-18 12:00 G 9019472.94 9019473.00 9019473.08 0.0070 0.0060

Jupiter 19982-07-24 16:33 G 9019540.08 9019540.19 9019540.31 0.0533 0.0343

Pluto 19982-08-14 12:28 G 9019560.94 9019561.02 9019561.12 0.0070 0.0051

Pluto 19982-11-10 13:12 G 9019648.95 9019649.05 9019649.17 0.0071 0.0041

Pluto 19983-02-06 13:55 G 9019736.97 9019737.08 9019737.20 0.0071 0.0032

Pluto 19983-05-05 14:24 G 9019824.99 9019825.10 9019825.24 0.0071 0.0023

Pluto 19983-08-01 15:07 G 9019913.01 9019913.13 9019913.27 0.0071 0.0013

Pluto 19983-10-28 15:50 G 9020001.03 9020001.16 9020001.29 0.0071 0.0004

Pluto 19984-01-24 16:33 G 9020089.06 9020089.19 9020089.32 0.0071 0.0006

Pluto 19984-04-21 17:02 G 9020177.09 9020177.21 9020177.35 0.0071 0.0016

Pluto 19984-07-18 17:45 G 9020265.12 9020265.24 9020265.37 0.0071 0.0026

Pluto 19984-10-14 18:14 G 9020353.16 9020353.26 9020353.39 0.0071 0.0036

Pluto 19985-01-10 18:57 G 9020441.20 9020441.29 9020441.40 0.0072 0.0046

Mars 19985-03-21 13:55 G 9020510.95 9020511.08 9020511.21 0.1933 0.0538

Pluto 19985-04-08 19:26 G 9020529.24 9020529.31 9020529.41 0.0072 0.0056

Pluto 19985-07-05 20:09 G 9020617.30 9020617.34 9020617.41 0.0072 0.0066

Neptune 19987-05-17 05:02 G 9021297.69 9021297.71 9021297.76 0.0089 0.0087

Neptune 19987-08-13 07:40 G 9021385.75 9021385.82 9021385.90 0.0089 0.0078

Neptune 19987-11-09 09:50 G 9021473.83 9021473.91 9021474.03 0.0089 0.0070

Jupiter 19987-12-12 07:26 G 9021506.68 9021506.81 9021506.95 0.0498 0.0161

Neptune 19988-02-05 12:28 G 9021561.91 9021562.02 9021562.15 0.0089 0.0061

Jupiter 19988-03-10 18:43 G 9021596.20 9021596.28 9021596.36 0.0495 0.0414

Neptune 19988-05-03 15:07 G 9021650.00 9021650.13 9021650.26 0.0089 0.0053

Neptune 19988-07-30 17:16 G 9021738.09 9021738.22 9021738.37 0.0089 0.0044

Neptune 19988-10-26 19:55 G 9021826.18 9021826.33 9021826.48 0.0089 0.0036

Neptune 19989-01-22 22:04 G 9021914.27 9021914.42 9021914.59 0.0089 0.0028

Neptune 19989-04-21 00:43 G 9022002.37 9022002.53 9022002.69 0.0089 0.0019

Neptune 19989-07-18 03:07 G 9022090.47 9022090.63 9022090.79 0.0089 0.0010

Neptune 19989-10-14 05:16 G 9022178.56 9022178.72 9022178.89 0.0089 0.0004

Mars 19989-11-20 13:55 G 9022215.97 9022216.08 9022216.19 0.1599 0.1033

Neptune 19990-01-10 07:40 G 9022266.66 9022266.82 9022266.98 0.0089 0.0007

Neptune 19990-04-08 10:04 G 9022354.76 9022354.92 9022355.08 0.0089 0.0015

Neptune 19990-07-05 12:14 G 9022442.86 9022443.01 9022443.17 0.0089 0.0023

Neptune 19990-10-01 14:38 G 9022530.96 9022531.11 9022531.26 0.0089 0.0031

Neptune 19990-12-28 17:02 G 9022619.06 9022619.21 9022619.35 0.0089 0.0040

Neptune 19991-03-26 18:57 G 9022707.17 9022707.29 9022707.44 0.0089 0.0048

Neptune 19991-06-22 21:21 G 9022795.28 9022795.39 9022795.52 0.0089 0.0056

Neptune 19991-09-18 23:31 G 9022883.38 9022883.48 9022883.60 0.0089 0.0065

Neptune 19991-12-16 01:55 G 9022971.50 9022971.58 9022971.68 0.0089 0.0072

Neptune 19992-03-13 04:04 G 9023059.61 9023059.67 9023059.75 0.0089 0.0080

Moon 19992-06-08 15:50 G 9023147.11 9023147.16 9023147.21 0.2655 0.2411

Earth 19992-06-08 16:33 G 9023147.15 9023147.19 9023147.23 0.2650 0.2507 *

Neptune 19992-06-09 06:14 G 9023147.75 9023147.76 9023147.79 0.0089 0.0089

Uranus 19993-11-18 08:24 G 9023674.80 9023674.85 9023674.93 0.0133 0.0122

Uranus 19994-02-14 13:26 G 9023762.96 9023763.06 9023763.16 0.0133 0.0102

Saturn 19994-05-11 14:38 G 9023849.01 9023849.11 9023849.21 0.0283 0.0217

Jupiter 19994-05-12 17:31 G 9023850.09 9023850.23 9023850.38 0.0532 0.0168

Uranus	19994-05-13 18:00	G	9023851.13	9023851.25	9023851.37	0.0133	0.0083
Saturn	19994-08-08 07:55	G	9023937.68	9023937.83	9023937.98	0.0283	0.0095
Uranus	19994-08-09 22:19	G	9023939.30	9023939.43	9023939.58	0.0133	0.0064
Mars	19994-08-11 17:45	G	9023941.19	9023941.24	9023941.28	0.1928	0.1795
Saturn	19994-11-05 00:57	G	9024026.38	9024026.54	9024026.69	0.0283	0.0026
Uranus	19994-11-06 02:52	G	9024027.48	9024027.62	9024027.77	0.0133	0.0045
Earth	19994-12-07 17:45	G	9024059.15	9024059.24	9024059.32	0.2682	0.2000
Moon	19994-12-07 17:45	G	9024059.16	9024059.24	9024059.32	0.2689	0.2009 *
Saturn	19995-02-01 17:16	G	9024115.09	9024115.22	9024115.36	0.0282	0.0141
Uranus	19995-02-02 07:26	G	9024115.66	9024115.81	9024115.96	0.0133	0.0026
Saturn	19995-05-01 09:07	G	9024203.83	9024203.88	9024203.95	0.0282	0.0255
Uranus	19995-05-01 11:45	G	9024203.84	9024203.99	9024204.15	0.0133	0.0009 *
Uranus	19995-07-28 16:19	G	9024292.02	9024292.18	9024292.33	0.0133	0.0011
Uranus	19995-10-24 20:38	G	9024380.21	9024380.36	9024380.51	0.0133	0.0029
Uranus	19996-01-21 00:57	G	9024468.40	9024468.54	9024468.68	0.0133	0.0048
Uranus	19996-04-18 05:02	G	9024556.59	9024556.71	9024556.85	0.0133	0.0066
Uranus	19996-07-15 09:21	G	9024644.78	9024644.89	9024645.01	0.0133	0.0084
Uranus	19996-10-11 13:26	G	9024732.98	9024733.06	9024733.17	0.0133	0.0102
Uranus	19997-01-07 17:45	G	9024821.18	9024821.24	9024821.31	0.0133	0.0120
Mars	19999-04-12 21:21	G	9025646.25	9025646.39	9025646.53	0.1602	0.0318
Jupiter	19999-09-30 10:04	G	9025816.81	9025816.92	9025817.03	0.0499	0.0308
Jupiter	19999-12-28 20:52	G	9025906.25	9025906.37	9025906.50	0.0496	0.0262
Venus	20000-02-24 11:45	G	9025963.95	9025963.99	9025964.02	0.3691	0.3506

21ST MILLENNIUM CE

This is a list of transits of Mercury in the 21st millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	**20005-09-09 07:40**	**G**	**9027987.72**	**9027987.82**	**9027987.93**	**0.3691**	**0.1777**	
Jupiter	**20006-02-28 18:00**	**G**	**9028160.09**	**9028160.25**	**9028160.40**	**0.0531**	**0.0022**	
Venus	**20007-03-23 01:40**	**G**	**9028547.55**	**9028547.57**	**9028547.59**	**0.3680**	**0.3621**	
Mars	**20008-09-02 04:48**	**G**	**9029076.57**	**9029076.70**	**9029076.84**	**0.1605**	**0.0388**	
Saturn	**20009-05-19 05:31**	**G**	**9029335.65**	**9029335.73**	**9029335.82**	**0.0275**	**0.0220**	
Saturn	**20009-08-15 19:26**	**G**	**9029424.17**	**9029424.31**	**9029424.44**	**0.0276**	**0.0120**	
Saturn	**20009-11-12 09:36**	**G**	**9029512.75**	**9029512.90**	**9029513.05**	**0.0276**	**0.0018**	
Saturn	**20010-02-09 00:00**	**G**	**9029601.36**	**9029601.50**	**9029601.64**	**0.0276**	**0.0089**	
Saturn	**20010-05-08 14:38**	**G**	**9029690.01**	**9029690.11**	**9029690.22**	**0.0277**	**0.0197**	
Venus	**20011-03-26 03:21**	**G**	**9030011.52**	**9030011.64**	**9030011.76**	**0.3692**	**0.0139**	
Jupiter	**20011-07-19 13:12**	**G**	**9030126.99**	**9030127.05**	**9030127.11**	**0.0500**	**0.0449**	
Jupiter	**20011-10-16 23:45**	**G**	**9030216.34**	**9030216.49**	**9030216.63**	**0.0497**	**0.0118**	
Moon	**20012-06-03 23:31**	**G**	**9030447.36**	**9030447.48**	**9030447.61**	**0.2646**	**0.0951**	
Earth	**20012-06-04 00:43**	**G**	**9030447.40**	**9030447.53**	**9030447.65**	**0.2650**	**0.0906**	*****
Venus	**20012-10-05 22:48**	**G**	**9030571.35**	**9030571.45**	**9030571.56**	**0.3680**	**0.1855**	
Moon	**20014-12-03 03:21**	**G**	**9031359.54**	**9031359.64**	**9031359.75**	**0.2684**	**0.1287**	
Earth	**20014-12-03 04:33**	**G**	**9031359.58**	**9031359.69**	**9031359.79**	**0.2682**	**0.1236**	*****
Mars	**20015-04-30 10:04**	**G**	**9031507.81**	**9031507.92**	**9031508.04**	**0.1937**	**0.0837**	
Venus	**20016-10-08 22:48**	**G**	**9032035.34**	**9032035.45**	**9032035.56**	**0.3692**	**0.1461**	
Jupiter	**20017-12-17 16:48**	**G**	**9032470.06**	**9032470.20**	**9032470.34**	**0.0529**	**0.0223**	
Mars	**20018-01-23 12:28**	**G**	**9032506.92**	**9032507.02**	**9032507.12**	**0.1609**	**0.1085**	
Jupiter	**20018-03-17 14:24**	**G**	**9032560.07**	**9032560.10**	**9032560.12**	**0.0533**	**0.0523**	
Venus	**20018-04-21 20:38**	**G**	**9032595.23**	**9032595.36**	**9032595.48**	**0.3679**	**0.0104**	
Venus	**20022-04-24 18:00**	**G**	**9034059.18**	**9034059.25**	**9034059.31**	**0.3692**	**0.2981**	
Jupiter	**20023-08-05 02:38**	**G**	**9034526.47**	**9034526.61**	**9034526.76**	**0.0498**	**0.0023**	
Saturn	**20023-09-28 17:16**	**G**	**9034581.14**	**9034581.22**	**9034581.31**	**0.0284**	**0.0239**	

Venus 20023-11-05 18:43 G 9034619.17 9034619.28 9034619.38 0.3678 0.1978

Saturn 20023-12-26 10:48 G 9034669.80 9034669.95 9034670.10 0.0284 0.0116

Saturn 20024-03-24 03:50 G 9034758.50 9034758.66 9034758.82 0.0283 0.0007

Saturn 20024-06-20 20:09 G 9034847.20 9034847.34 9034847.49 0.0283 0.0122

Saturn 20024-09-17 12:14 G 9034935.93 9034936.01 9034936.10 0.0283 0.0236

Mars 20024-09-19 14:09 G 9034937.96 9034938.09 9034938.22 0.1933 0.0399

Moon 20025-06-06 22:33 G 9035198.31 9035198.44 9035198.56 0.2652 0.0832

Earth 20025-06-06 23:31 G 9035198.36 9035198.48 9035198.60 0.2650 0.1029 *

Moon 20027-12-06 01:12 G 9036110.42 9036110.55 9036110.67 0.2687 0.0431

Earth 20027-12-06 01:40 G 9036110.44 9036110.57 9036110.69 0.2682 0.0552 *

Mars 20029-05-21 14:09 G 9036643.00 9036643.09 9036643.19 0.1599 0.1144

Jupiter 20029-10-05 16:19 G 9036780.09 9036780.18 9036780.28 0.0529 0.0417

Jupiter 20030-01-03 14:38 G 9036869.99 9036870.11 9036870.23 0.0532 0.0338

Mars 20034-02-09 18:00 G 9038368.18 9038368.25 9038368.31 0.1928 0.1660

Jupiter 20035-05-24 05:45 G 9038836.61 9038836.74 9038836.88 0.0498 0.0159

Jupiter 20035-08-21 17:02 G 9038926.13 9038926.21 9038926.29 0.0495 0.0416

Uranus 20035-11-17 12:28 G 9039013.95 9039014.02 9039014.10 0.0146 0.0126

Uranus 20036-02-13 18:00 G 9039102.14 9039102.25 9039102.35 0.0146 0.0102

Uranus 20036-05-11 23:02 G 9039190.34 9039190.46 9039190.60 0.0146 0.0078

Uranus 20036-08-08 04:33 G 9039278.55 9039278.69 9039278.84 0.0146 0.0054

Uranus 20036-11-04 10:04 G 9039366.76 9039366.92 9039367.07 0.0146 0.0030

Uranus 20037-01-31 15:36 G 9039454.99 9039455.15 9039455.30 0.0146 0.0007

Uranus 20037-04-29 21:07 G 9039543.22 9039543.38 9039543.53 0.0146 0.0020

Uranus 20037-07-27 02:24 G 9039631.46 9039631.60 9039631.76 0.0146 0.0045

Uranus 20037-10-23 08:09 G 9039719.70 9039719.84 9039719.98 0.0146 0.0070

Uranus 20038-01-19 13:55 G 9039807.96 9039808.08 9039808.20 0.0146 0.0095

Uranus 20038-04-17 19:26 G 9039896.23 9039896.31 9039896.40 0.0146 0.0120

Saturn 20038-10-06 07:26 G 9040067.75 9040067.81 9040067.88 0.0275 0.0247

Mars 20038-10-11 21:36 G 9040073.27 9040073.40 9040073.54 0.1602 0.0431

Saturn 20039-01-02 21:07 G 9040156.26 9040156.38 9040156.51 0.0275 0.0148

Saturn 20039-04-01 11:16 G 9040244.82 9040244.97 9040245.11 0.0276 0.0047

Saturn 20039-06-29 01:26 G 9040333.41 9040333.56 9040333.71 0.0276 0.0058

Saturn 20039-09-25 16:04 G 9040422.05 9040422.17 9040422.30 0.0276 0.0165

Saturn 20039-12-23 07:12 G 9040510.78 9040510.80 9040510.82 0.0277 0.0274

Earth 20040-12-07 23:02 G 9040861.40 9040861.46 9040861.51 0.2682 0.2378

Moon 20040-12-07 23:02 G 9040861.41 9040861.46 9040861.51 0.2689 0.2435 *

Jupiter 20041-10-22 15:07 G 9041179.98 9041180.13 9041180.27 0.0532 0.0157

Moon 20045-06-02 06:28 G 9042498.73 9042498.77 9042498.80 0.2644 0.2526

Earth 20045-06-02 07:12 G 9042498.75 9042498.80 9042498.84 0.2649 0.2482 *

Jupiter 20047-03-12 08:52 G 9043146.76 9043146.87 9043146.99 0.0499 0.0297

Jupiter 20047-06-09 19:55 G 9043236.21 9043236.33 9043236.45 0.0496 0.0274

Moon 20047-12-01 11:45 G 9043410.99 9043410.99 9043411.00 0.2681 0.2675

Earth 20047-12-01 12:43 G 9043411.01 9043411.03 9043411.06 0.2682 0.2603

Mars 20048-03-03 05:02 G 9043503.57 9043503.71 9043503.85 0.1605 0.0285

Saturn 20053-05-14 09:36 G 9045401.77 9045401.90 9045402.04 0.0283 0.0162

Jupiter 20053-08-10 15:50 G 9045490.00 9045490.16 9045490.31 0.0531 0.0021

Saturn 20053-08-11 02:52 G 9045490.46 9045490.62 9045490.78 0.0283 0.0040

Saturn 20053-11-07 19:40 G 9045579.16 9045579.32 9045579.47 0.0283 0.0078

Saturn 20054-02-04 11:45 G 9045667.88 9045667.99 9045668.11 0.0282 0.0192

Mars 20054-10-29 10:33 G 9045934.83 9045934.94 9045935.05 0.1938 0.0982

Venus 20056-09-30 10:19 G 9046636.86 9046636.93 9046637.00 0.3691 0.2953

Mars 20057-07-24 12:43 G 9046933.92 9046934.03 9046934.14 0.1608 0.0981

Moon 20058-06-05 05:16 G 9047249.59 9047249.72 9047249.84 0.2647 0.0709

Earth 20058-06-05 06:14 G 9047249.63 9047249.76 9047249.89 0.2650 0.0497 *

Jupiter 20058-12-29 11:45 G 9047456.93 9047456.99 9047457.05 0.0500 0.0441

Jupiter 20059-03-28 22:19 G 9047546.29 9047546.43 9047546.57 0.0497 0.0125

Moon 20060-12-03 08:52 G 9048161.75 9048161.87 9048161.98 0.2684 0.1074

Earth 20060-12-03 09:36 G 9048161.79 9048161.90 9048162.02 0.2682 0.0874 *

Venus 20062-04-16 06:14 G 9048660.65 9048660.76 9048660.87 0.3691 0.1256

Venus 20063-10-28 00:28 G 9049220.46 9049220.52 9049220.59 0.3680 0.3076

Mars 20064-03-20 14:24 G 9049364.97 9049365.10 9049365.23 0.1933 0.0272

Jupiter 20065-05-29 16:04 G 9049800.02 9049800.17 9049800.31 0.0530 0.0206

Venus 20067-10-31 01:55 G 9050684.46 9050684.58 9050684.70 0.3692 0.0383

Pluto 20068-01-04 21:07 G 9050750.32 9050750.38 9050750.47 0.0074 0.0068

Pluto 20068-04-01 23:31 G 9050838.36 9050838.48 9050838.64 0.0074 0.0052

Saturn 20068-05-21 22:04 G 9050888.32 9050888.42 9050888.54 0.0276 0.0182

Pluto 20068-06-29 02:24 G 9050926.43 9050926.60 9050926.78 0.0073 0.0036

Neptune 20068-08-17 11:02 G 9050975.94 9050975.96 9050976.01 0.0088 0.0086

Saturn 20068-08-18 12:14 G 9050976.86 9050977.01 9050977.15 0.0276 0.0080

Pluto 20068-09-25 04:33 G 9051014.52 9051014.69 9051014.89 0.0073 0.0021

Neptune 20068-11-13 12:57 G 9051063.98 9051064.04 9051064.12 0.0088 0.0078

Saturn 20068-11-15 02:24 G 9051065.45 9051065.60 9051065.75 0.0276 0.0024

Mars 20068-11-19 14:24 G 9051070.02 9051070.10 9051070.19 0.1599 0.1248

Pluto 20068-12-22 07:26 G 9051102.61 9051102.81 9051103.00 0.0073 0.0004

Neptune 20069-02-09 14:38 G 9051152.04 9051152.11 9051152.22 0.0088 0.0071

Saturn 20069-02-11 17:02 G 9051154.07 9051154.21 9051154.34 0.0276 0.0130

Pluto 20069-03-20 09:50 G 9051190.71 9051190.91 9051191.10 0.0073 0.0011

Neptune 20069-05-08 16:48 G 9051240.10 9051240.20 9051240.31 0.0088 0.0063

Saturn 20069-05-11 07:55 G 9051242.76 9051242.83 9051242.91 0.0277 0.0239

Venus 20069-05-12 21:50 G 9051244.30 9051244.41 9051244.53 0.3679 0.1277

Pluto 20069-06-16 12:00 G 9051278.83 9051279.00 9051279.19 0.0073 0.0027

Neptune 20069-08-04 18:28 G 9051328.17 9051328.27 9051328.40 0.0088 0.0056

Pluto 20069-09-12 14:24 G 9051366.95 9051367.10 9051367.27 0.0073 0.0042

Neptune 20069-10-31 20:24 G 9051416.24 9051416.35 9051416.49 0.0088 0.0049

Pluto 20069-12-09 17:02 G 9051455.09 9051455.21 9051455.33 0.0073 0.0057

Neptune 20070-01-27 22:19 G 9051504.31 9051504.43 9051504.57 0.0088 0.0041

Pluto 20070-03-07 18:57 G 9051543.29 9051543.29 9051543.32 0.0073 0.0072

Neptune 20070-04-26 00:14 G 9051592.38 9051592.51 9051592.66 0.0088 0.0034

Neptune 20070-07-23 02:24 G 9051680.45 9051680.60 9051680.74 0.0088 0.0026

Neptune 20070-10-19 04:04 G 9051768.53 9051768.67 9051768.83 0.0088 0.0019

Jupiter 20071-01-15 01:12 G 9051856.40 9051856.55 9051856.69 0.0498 0.0020

Neptune 20071-01-15 06:14 G 9051856.61 9051856.76 9051856.91 0.0088 0.0011 *

Neptune 20071-04-13 08:09 G 9051944.68 9051944.84 9051944.99 0.0088 0.0004

Moon 20071-06-08 04:04 G 9052000.55 9052000.67 9052000.78 0.2653 0.1385

Earth 20071-06-08 05:02 G 9052000.60 9052000.71 9052000.82 0.2650 0.1423 *

Neptune 20071-07-10 10:04 G 9052032.77 9052032.92 9052033.07 0.0088 0.0004

Neptune 20071-10-06 12:00 G 9052120.85 9052121.00 9052121.15 0.0088 0.0011

Neptune 20072-01-02 13:55 G 9052208.93 9052209.08 9052209.23 0.0088 0.0019

Neptune 20072-03-30 15:50 G 9052297.02 9052297.16 9052297.31 0.0088 0.0027

Neptune 20072-06-26 18:00 G 9052385.10 9052385.25 9052385.39 0.0088 0.0034

Neptune 20072-09-22 19:40 G 9052473.19 9052473.32 9052473.46 0.0088 0.0042

Neptune 20072-12-19 21:36 G 9052561.28 9052561.40 9052561.54 0.0088 0.0050

Neptune 20073-03-17 23:31 G 9052649.38 9052649.48 9052649.61 0.0088 0.0058

Venus 20073-05-15 21:07 G 9052708.29 9052708.38 9052708.48 0.3692 0.1957

Neptune 20073-06-14 01:40 G 9052737.48 9052737.57 9052737.68 0.0088 0.0065

Mars 20073-08-10 18:00 G 9052795.18 9052795.25 9052795.33 0.1928 0.1540

Neptune 20073-09-10 03:36 G 9052825.58 9052825.65 9052825.75 0.0088 0.0073

Moon 20073-12-06 06:28 G 9052912.66 9052912.77 9052912.89 0.2688 0.0954

Earth 20073-12-06 06:57 G 9052912.67 9052912.79 9052912.90 0.2682 0.0918 *

Neptune 20073-12-07 05:31 G 9052913.69 9052913.73 9052913.81 0.0088 0.0081

Venus 20074-11-26 19:40 G 9053268.20 9053268.32 9053268.45 0.3679 0.0626

Jupiter 20077-03-17 14:52 G 9054110.02 9054110.12 9054110.22 0.0528 0.0410

Jupiter 20077-06-15 12:57 G 9054199.93 9054200.04 9054200.16 0.0532 0.0344

Uranus 20077-09-11 12:14 G 9054288.00 9054288.01 9054288.02 0.0133 0.0132

Uranus 20077-12-08 16:48 G 9054376.12 9054376.20 9054376.29 0.0133 0.0113

Uranus 20078-03-06 21:21 G 9054464.28 9054464.39 9054464.51 0.0133 0.0094

Mars 20078-04-11 21:50 G 9054500.28 9054500.41 9054500.55 0.1602 0.0533

Uranus 20078-06-03 01:55 G 9054552.46 9054552.58 9054552.72 0.0133 0.0075

Uranus 20078-08-30 06:28 G 9054640.63 9054640.77 9054640.92 0.0133 0.0056

Uranus 20078-11-26 11:02 G 9054728.81 9054728.96 9054729.11 0.0133 0.0037

Venus 20078-11-29 16:19 G 9054732.14 9054732.18 9054732.21 0.3693 0.3460

Uranus 20079-02-22 15:36 G 9054816.99 9054817.15 9054817.30 0.0133 0.0018

Uranus 20079-05-21 19:55 G 9054905.18 9054905.33 9054905.49 0.0133 0.0002

Uranus 20079-08-18 00:14 G 9054993.36 9054993.51 9054993.67 0.0133 0.0020

Uranus 20079-11-14 04:33 G 9055081.55 9055081.69 9055081.85 0.0133 0.0038

Uranus 20080-02-10 08:52 G 9055169.74 9055169.87 9055170.02 0.0133 0.0056

Uranus 20080-05-08 13:12 G 9055257.93 9055258.05 9055258.18 0.0133 0.0074

Venus 20080-06-11 18:00 G 9055292.16 9055292.25 9055292.34 0.3678 0.2619

Uranus 20080-08-04 17:31 G 9055346.12 9055346.23 9055346.34 0.0133 0.0092

Uranus 20080-10-31 21:36 G 9055434.32 9055434.40 9055434.49 0.0133 0.0110

Uranus 20081-01-28 01:40 G 9055522.54 9055522.57 9055522.62 0.0133 0.0128

Saturn 20082-10-01 12:00 G 9056133.88 9056134.00 9056134.12 0.0284 0.0187

Jupiter 20082-11-03 04:04 G 9056166.54 9056166.67 9056166.81 0.0499 0.0158

Saturn 20082-12-29 05:16 G 9056222.57 9056222.72 9056222.88 0.0284 0.0065

Jupiter 20083-01-31 15:21 G 9056256.07 9056256.14 9056256.22 0.0496 0.0418

Saturn 20083-03-27 22:04 G 9056311.27 9056311.42 9056311.58 0.0283 0.0055

Saturn 20083-06-24 14:24 G 9056399.98 9056400.10 9056400.23 0.0283 0.0171

Mars 20087-09-02 05:31 G 9057930.59 9057930.73 9057930.87 0.1605 0.0179

Jupiter 20089-04-03 13:12 G 9058509.90 9058510.05 9058510.20 0.0531 0.0157

Moon 20091-06-03 12:00 G 9059300.92 9059301.00 9059301.07 0.2644 0.2180

Earth 20091-06-03 12:43 G 9059300.95 9059301.03 9059301.11 0.2649 0.2061 *

Moon 20093-12-01 17:02 G 9060213.16 9060213.21 9060213.26 0.2682 0.2402

Earth 20093-12-01 18:00 G 9060213.18 9060213.25 9060213.31 0.2682 0.2249 *

Mars 20094-04-29 10:48 G 9060361.85 9060361.95 9060362.06 0.1938 0.1120

Jupiter 20094-08-22 07:26 G 9060476.69 9060476.81 9060476.93 0.0499 0.0294

Jupiter 20094-11-19 18:14 G 9060566.14 9060566.26 9060566.39 0.0496 0.0278

Mars 20097-01-22 13:12 G 9061360.93 9061361.05 9061361.16 0.1608 0.0875

Saturn 20097-10-09 00:14 G 9061620.41 9061620.51 9061620.60 0.0275 0.0208

Saturn 20098-01-05 13:55 G 9061708.95 9061709.08 9061709.22 0.0275 0.0109

Saturn 20098-04-04 04:04 G 9061797.52 9061797.67 9061797.82 0.0276 0.0006

Saturn 20098-07-01 18:28 G 9061886.13 9061886.27 9061886.41 0.0276 0.0099

Saturn 20098-09-28 09:07 G 9061974.79 9061974.88 9061974.99 0.0276 0.0207

Jupiter 20101-01-21 13:26 G 9062819.90 9062820.06 9062820.21 0.0531 0.0029

Mars 20103-09-20 14:52 G 9063791.99 9063792.12 9063792.25 0.1933 0.0138

Moon 20104-06-06 10:33 G 9064051.81 9064051.94 9064052.08 0.2649 0.0191

Earth 20104-06-06 11:45 G 9064051.86 9064051.99 9064052.12 0.2650 0.0096 *

Jupiter 20106-06-11 10:48 G 9064786.88 9064786.95 9064787.02 0.0500 0.0429

Mars 20106-06-15 20:52 G 9064791.34 9064791.37 9064791.40 0.1612 0.1569

Jupiter 20106-09-08 21:21 G 9064876.25 9064876.39 9064876.53 0.0497 0.0138

Moon 20106-12-05 14:09 G 9064963.97 9064964.09 9064964.21 0.2685 0.0556

Earth 20106-12-05 14:52 G 9064964.00 9064964.12 9064964.24 0.2682 0.0514 *

Mars 20108-05-21 14:52 G 9065497.05 9065497.12 9065497.19 0.1599 0.1361

Saturn 20112-02-19 10:48 G 9066865.87 9066865.95 9066866.05 0.0283 0.0234

Saturn 20112-05-18 04:19 G 9066954.53 9066954.68 9066954.83 0.0283 0.0110

Saturn 20112-08-14 21:21 G 9067043.23 9067043.39 9067043.55 0.0283 0.0010

Jupiter 20112-11-09 14:09 G 9067129.94 9067130.09 9067130.23 0.0530 0.0207

Saturn 20112-11-11 13:40 G 9067131.94 9067132.07 9067132.22 0.0282 0.0128

Saturn 20113-02-08 06:00 G 9067220.67 9067220.75 9067220.83 0.0282 0.0240

Mars 20113-02-09 18:28 G 9067222.18 9067222.27 9067222.36 0.1928 0.1394

Venus 20113-05-08 09:07 G 9067309.79 9067309.88 9067309.96 0.3691 0.2415

Moon 20117-06-09 09:36 G 9068802.79 9068802.90 9068803.00 0.2654 0.1614

Earth 20117-06-09 10:33 G 9068802.84 9068802.94 9068803.03 0.2650 0.1816 *

Mars 20117-10-11 22:04 G 9068927.29 9068927.42 9068927.55 0.1602 0.0639

Jupiter 20118-06-28 00:00 G 9069186.35 9069186.50 9069186.64 0.0497 0.0013

Venus 20118-11-22 04:48 G 9069333.59 9069333.70 9069333.82 0.3691 0.0729

Uranus 20119-09-11 15:21 G 9069627.11 9069627.14 9069627.19 0.0146 0.0140

Moon 20119-12-08 12:00 G 9069714.89 9069715.00 9069715.11 0.2689 0.1183

Earth 20119-12-08 12:14 G 9069714.90 9069715.01 9069715.11 0.2682 0.1289 *

Uranus 20119-12-08 20:24 G 9069715.27 9069715.35 9069715.46 0.0146 0.0117

Uranus 20120-03-06 01:55 G 9069803.47 9069803.58 9069803.70 0.0146 0.0093

Uranus 20120-06-02 07:12 G 9069891.67 9069891.80 9069891.94 0.0146 0.0069

Venus 20120-06-03 23:31 G 9069893.39 9069893.48 9069893.57 0.3680 0.2511

Uranus 20120-08-29 12:43 G 9069979.88 9069980.03 9069980.18 0.0146 0.0045

Uranus 20120-11-25 18:14 G 9070068.10 9070068.26 9070068.41 0.0146 0.0020

Uranus 20121-02-21 23:31 G 9070156.33 9070156.48 9070156.64 0.0146 0.0006

Uranus 20121-05-21 05:02 G 9070244.56 9070244.71 9070244.87 0.0146 0.0030

Uranus 20121-08-17 10:33 G 9070332.80 9070332.94 9070333.09 0.0146 0.0055

Uranus 20121-11-13 16:04 G 9070421.05 9070421.17 9070421.31 0.0146 0.0080

Uranus 20122-02-09 21:50 G 9070509.31 9070509.41 9070509.53 0.0146 0.0105

Uranus 20122-05-09 03:21 G 9070597.59 9070597.64 9070597.73 0.0146 0.0131

Venus 20124-06-07 00:28 G 9071357.40 9071357.52 9071357.63 0.3692 0.0898

Jupiter 20124-08-28 14:09 G 9071439.99 9071440.09 9071440.20 0.0529 0.0391

Jupiter 20124-11-26 12:28 G 9071529.91 9071530.02 9071530.13 0.0532 0.0364

Venus 20125-12-18 21:07 G 9071917.25 9071917.38 9071917.50 0.3679 0.0684

Saturn 20127-02-27 00:43 G 9072352.47 9072352.53 9072352.60 0.0275 0.0245

Mars 20127-03-04 05:45 G 9072357.59 9072357.74 9072357.88 0.1605 0.0086

Saturn 20127-05-26 14:24 G 9072440.98 9072441.10 9072441.23 0.0276 0.0146

Saturn 20127-08-23 04:33 G 9072529.54 9072529.69 9072529.84 0.0276 0.0044

Saturn 20127-11-19 18:43 G 9072618.14 9072618.28 9072618.43 0.0276 0.0062

Saturn 20128-02-16 09:21 G 9072706.78 9072706.89 9072707.02 0.0276 0.0169

Venus 20129-12-21 19:40 G 9073381.23 9073381.32 9073381.40 0.3692 0.2448

Jupiter 20130-04-16 02:52 G 9073496.48 9073496.62 9073496.76 0.0498 0.0151

Jupiter 20130-07-14 13:55 G 9073586.01 9073586.08 9073586.16 0.0495 0.0424

Venus 20131-07-04 18:57 G 9073941.17 9073941.29 9073941.41 0.3679 0.1248

Mars 20133-10-29 11:02 G 9074788.86 9074788.96 9074789.06 0.1938 0.1240

Mars 20136-07-24 13:26 G 9075787.93 9075788.06 9075788.18 0.1608 0.0773

Jupiter 20136-09-14 11:45 G 9075839.85 9075839.99 9075840.14 0.0531 0.0167

Venus 20137-01-17 17:16 G 9075965.17 9075965.22 9075965.28 0.3678 0.3278

Moon 20137-06-04 17:31 G 9076103.13 9076103.23 9076103.33 0.2645 0.1750

Earth 20137-06-04 18:14 G 9076103.16 9076103.26 9076103.36 0.2650 0.1654 *

Moon 20139-12-03 22:19 G 9077015.35 9077015.43 9077015.50 0.2682 0.2018

Earth 20139-12-03 23:16 G 9077015.38 9077015.47 9077015.55 0.2682 0.1899 *

Saturn 20141-07-08 12:28 G 9077597.97 9077598.02 9077598.09 0.0284 0.0264

Saturn 20141-10-05 06:14 G 9077686.62 9077686.76 9077686.90 0.0284 0.0138

Saturn 20142-01-01 23:16 G 9077775.32 9077775.47 9077775.63 0.0284 0.0018

Jupiter 20142-02-02 05:45 G 9077806.63 9077806.74 9077806.86 0.0500 0.0291

Saturn 20142-03-31 16:04 G 9077864.02 9077864.17 9077864.31 0.0283 0.0102

Jupiter 20142-05-02 16:48 G 9077896.08 9077896.20 9077896.32 0.0497 0.0282

Saturn 20142-06-28 08:09 G 9077952.75 9077952.84 9077952.94 0.0283 0.0216

Mars 20143-03-21 15:07 G 9078218.99 9078219.13 9078219.26 0.1934 0.0057

Mars 20145-12-14 21:07 G 9079218.33 9079218.38 9079218.44 0.1612 0.1464

Mars 20147-11-20 15:07 G 9079924.08 9079924.13 9079924.18 0.1599 0.1469

Jupiter 20148-07-03 11:45 G 9080149.84 9080149.99 9080150.15 0.0530 0.0025

Moon 20150-06-07 16:19 G 9080854.04 9080854.18 9080854.31 0.2651 0.0160

Earth 20150-06-07 17:16 G 9080854.09 9080854.22 9080854.35 0.2650 0.0314 *

Neptune 20152-02-12 03:21 G 9081468.60 9081468.64 9081468.67 0.0089 0.0087

Neptune 20152-05-10 05:31 G 9081556.66 9081556.73 9081556.82 0.0089 0.0078

Neptune 20152-08-06 08:09 G 9081644.74 9081644.84 9081644.94 0.0089 0.0069

Mars 20152-08-10 18:57 G 9081649.19 9081649.29 9081649.39 0.1928 0.1250

Neptune 20152-11-02 10:19 G 9081732.82 9081732.93 9081733.06 0.0089 0.0061

Moon 20152-12-05 19:26 G 9081766.19 9081766.31 9081766.44 0.2687 0.0295

Earth 20152-12-05 20:09 G 9081766.22 9081766.34 9081766.47 0.2682 0.0150 *

Neptune 20153-01-29 12:57 G 9081820.91 9081821.04 9081821.18 0.0089 0.0052

Neptune 20153-04-27 15:07 G 9081909.00 9081909.13 9081909.29 0.0089 0.0045

Neptune 20153-07-24 17:45 G 9081997.10 9081997.24 9081997.40 0.0089 0.0035

Neptune 20153-10-20 20:09 G 9082085.19 9082085.34 9082085.50 0.0089 0.0027

Jupiter 20153-11-21 09:07 G 9082116.81 9082116.88 9082116.96 0.0500 0.0426

Neptune 20154-01-16 22:33 G 9082173.29 9082173.44 9082173.61 0.0089 0.0019

Jupiter 20154-02-18 19:55 G 9082206.19 9082206.33 9082206.47 0.0497 0.0144

Neptune 20154-04-15 00:57 G 9082261.38 9082261.54 9082261.71 0.0089 0.0010

Neptune 20154-07-12 03:21 G 9082349.48 9082349.64 9082349.80 0.0089 0.0002

Neptune 20154-10-08 05:45 G 9082437.58 9082437.74 9082437.90 0.0089 0.0007

Neptune 20155-01-04 07:55 G 9082525.68 9082525.83 9082526.00 0.0089 0.0016

Neptune 20155-04-02 10:19 G 9082613.78 9082613.93 9082614.09 0.0089 0.0024

Neptune 20155-06-29 12:43 G 9082701.88 9082702.03 9082702.18 0.0089 0.0032

Neptune 20155-09-25 14:52 G 9082789.98 9082790.12 9082790.27 0.0089 0.0040

Neptune 20155-12-22 17:02 G 9082878.09 9082878.21 9082878.36 0.0089 0.0049

Neptune 20156-03-19 19:26 G 9082966.19 9082966.31 9082966.44 0.0089 0.0057

Neptune 20156-06-15 21:50 G 9083054.30 9083054.41 9083054.52 0.0089 0.0065

Saturn 20156-07-16 02:52 G 9083084.60 9083084.62 9083084.65 0.0275 0.0270

Neptune 20156-09-12 00:00 G 9083142.42 9083142.50 9083142.60 0.0089 0.0073

Saturn 20156-10-12 16:33 G 9083173.08 9083173.19 9083173.30 0.0275 0.0172

Neptune 20156-12-09 02:24 G 9083230.54 9083230.60 9083230.67 0.0089 0.0081

Saturn 20157-01-09 06:28 G 9083261.62 9083261.77 9083261.91 0.0275 0.0072

Neptune 20157-03-07 04:33 G 9083318.68 9083318.69 9083318.71 0.0089 0.0089

Saturn 20157-04-07 20:38 G 9083350.21 9083350.36 9083350.51 0.0276 0.0032

Mars 20157-04-11 22:33 G 9083354.31 9083354.44 9083354.56 0.1602 0.0752

Saturn 20157-07-05 11:02 G 9083438.83 9083438.96 9083439.10 0.0276 0.0138

Saturn 20157-10-02 01:55 G 9083527.52 9083527.58 9083527.65 0.0276 0.0247

Jupiter 20160-04-21 11:45 G 9084459.85 9084459.99 9084460.14 0.0529 0.0211

Uranus 20161-10-02 20:09 G 9084989.29 9084989.34 9084989.40 0.0133 0.0124

Uranus 20161-12-30 00:43 G 9085077.44 9085077.53 9085077.64 0.0133 0.0105

Uranus 20162-03-28 05:31 G 9085165.61 9085165.73 9085165.85 0.0133 0.0085

Uranus 20162-06-24 10:04 G 9085253.78 9085253.92 9085254.06 0.0133 0.0066

Uranus 20162-09-20 14:38 G 9085341.96 9085342.11 9085342.26 0.0133 0.0047

Uranus 20162-12-17 18:57 G 9085430.14 9085430.29 9085430.45 0.0133 0.0029

Uranus 20163-03-15 23:31 G 9085518.33 9085518.48 9085518.64 0.0133 0.0010

Moon 20163-06-10 15:07 G 9085605.06 9085605.13 9085605.20 0.2654 0.2179

Earth 20163-06-10 16:04 G 9085605.10 9085605.17 9085605.24 0.2650 0.2208 *

Uranus 20163-06-12 04:04 G 9085606.51 9085606.67 9085606.82 0.0133 0.0009

Uranus 20163-09-08 08:24 G 9085694.70 9085694.85 9085695.00 0.0133 0.0028

Uranus 20163-12-05 12:43 G 9085782.88 9085783.03 9085783.18 0.0133 0.0046

Uranus 20164-03-02 17:02 G 9085871.07 9085871.21 9085871.35 0.0133 0.0064

Venus 20164-05-29 11:31 G 9085958.96 9085958.98 9085959.00 0.3690 0.3606

Uranus 20164-05-29 21:07 G 9085959.27 9085959.38 9085959.51 0.0133 0.0082

Uranus 20164-08-26 01:26 G 9086047.47 9086047.56 9086047.66 0.0133 0.0100

Uranus 20164-11-22 05:31 G 9086135.67 9086135.73 9086135.81 0.0133 0.0118

Jupiter 20165-12-07 23:02 G 9086516.31 9086516.46 9086516.60 0.0498 0.0012

Moon 20165-12-08 17:16 G 9086517.12 9086517.22 9086517.31 0.2688 0.1711

Earth 20165-12-08 17:31 G 9086517.13 9086517.23 9086517.32 0.2681 0.1657 *

Mars 20166-09-02 06:00 G 9086784.61 9086784.75 9086784.89 0.1605 0.0046

Venus 20169-12-13 07:40 G 9087982.72 9087982.82 9087982.92 0.3691 0.1869

Saturn 20171-02-22 05:02 G 9088418.59 9088418.71 9088418.83 0.0283 0.0185

Saturn 20171-05-21 22:19 G 9088507.28 9088507.43 9088507.59 0.0283 0.0063

Saturn 20171-08-18 15:07 G 9088595.98 9088596.13 9088596.29 0.0283 0.0057

Saturn 20171-11-15 07:26 G 9088684.69 9088684.81 9088684.94 0.0282 0.0173

Jupiter 20172-02-08 12:14 G 9088769.91 9088770.01 9088770.12 0.0529 0.0391

Jupiter 20172-05-08 10:33 G 9088859.83 9088859.94 9088860.05 0.0532 0.0365

Mars 20173-04-29 11:16 G 9089215.88 9089215.97 9089216.06 0.1938 0.1375

Venus 20175-06-29 03:21 G 9090006.53 9090006.64 9090006.76 0.3691 0.0230

Mars 20176-01-23 13:26 G 9090214.94 9090215.06 9090215.19 0.1608 0.0672

Venus 20177-01-08 22:33 G 9090566.34 9090566.44 9090566.55 0.3679 0.1937

Jupiter 20177-09-26 01:40 G 9090826.43 9090826.57 9090826.71 0.0498 0.0140

Jupiter 20177-12-24 12:57 G 9090915.97 9090916.04 9090916.11 0.0495 0.0435

Venus 20181-01-11 23:02 G 9092030.35 9092030.46 9092030.56 0.3692 0.1411

Venus 20182-07-25 20:09 G 9092590.22 9092590.34 9092590.47 0.3679 0.0107

Mars 20182-09-19 15:21 G 9092646.01 9092646.14 9092646.27 0.1933 0.0144

Moon 20183-06-05 23:02 G 9092905.34 9092905.46 9092905.57 0.2646 0.1336

Earth 20183-06-05 23:45 G 9092905.38 9092905.49 9092905.61 0.2650 0.1244 *

Jupiter 20184-02-25 11:16 G 9093169.82 9093169.97 9093170.11 0.0531 0.0187

Mars	20185-06-14 21:21 G	9093645.32	9093645.39	9093645.46	0.1612	0.1365
Moon	20185-12-04 03:36 G	9093817.55	9093817.65	9093817.74	0.2682	0.1667
Earth	20185-12-04 04:19 G	9093817.58	9093817.68	9093817.79	0.2682	0.1545 *
Saturn	20186-03-01 16:48 G	9093905.11	9093905.20	9093905.29	0.0275	0.0211
Saturn	20186-05-29 06:28 G	9093993.64	9093993.77	9093993.91	0.0276	0.0112
Venus	20186-07-28 18:00 G	9094054.18	9094054.25	9094054.32	0.3692	0.2940
Saturn	20186-08-25 20:38 G	9094082.21	9094082.36	9094082.51	0.0276	0.0010
Saturn	20186-11-22 11:02 G	9094170.82	9094170.96	9094171.10	0.0276	0.0096
Saturn	20187-02-19 01:40 G	9094259.47	9094259.57	9094259.68	0.0276	0.0204
Mars	20187-05-21 15:21 G	9094351.12	9094351.14	9094351.16	0.1599	0.1577
Venus	20188-02-08 18:14 G	9094614.15	9094614.26	9094614.37	0.3678	0.1880
Jupiter	20189-07-15 04:48 G	9095136.58	9095136.70	9095136.82	0.0499	0.0280
Jupiter	20189-10-12 15:36 G	9095226.03	9095226.15	9095226.27	0.0496	0.0291
Mars	20192-02-09 18:57 G	9096076.18	9096076.29	9096076.40	0.1929	0.1136
Jupiter	20195-12-14 10:33 G	9097479.79	9097479.94	9097480.10	0.0530	0.0018
Moon	20196-06-07 21:36 G	9097656.27	9097656.40	9097656.53	0.2651	0.0584
Earth	20196-06-07 22:48 G	9097656.32	9097656.45	9097656.58	0.2650	0.0708 *
Mars	20196-10-10 22:48 G	9097781.33	9097781.45	9097781.57	0.1602	0.0857
Moon	20198-12-07 00:57 G	9098568.41	9098568.54	9098568.66	0.2688	0.0187
Earth	20198-12-07 01:26 G	9098568.44	9098568.56	9098568.68	0.2682	0.0215 *
Saturn	20200-07-12 06:28 G	9099150.66	9099150.77	9099150.87	0.0284	0.0218
Saturn	20200-10-08 23:45 G	9099239.34	9099239.49	9099239.64	0.0284	0.0094
Saturn	20201-01-05 16:48 G	9099328.04	9099328.20	9099328.36	0.0284	0.0027
Saturn	20201-04-04 09:21 G	9099416.76	9099416.89	9099417.03	0.0283	0.0145
Jupiter	20201-05-04 07:40 G	9099446.75	9099446.82	9099446.90	0.0501	0.0421
Saturn	20201-07-02 01:26 G	9099505.50	9099505.56	9099505.62	0.0283	0.0258
Jupiter	20201-08-01 18:28 G	9099536.13	9099536.27	9099536.41	0.0497	0.0149
Uranus	20203-10-02 23:16 G	9100328.41	9100328.47	9100328.54	0.0146	0.0132
Uranus	20203-12-30 04:19 G	9100416.59	9100416.68	9100416.79	0.0146	0.0109
Uranus	20204-03-27 09:50 G	9100504.79	9100504.91	9100505.04	0.0146	0.0084

Uranus 20204-06-23 15:07 G 9100592.99 9100593.13 9100593.27 0.0146 0.0061

Uranus 20204-09-19 20:38 G 9100681.21 9100681.36 9100681.51 0.0146 0.0036

Uranus 20204-12-17 01:55 G 9100769.43 9100769.58 9100769.74 0.0146 0.0012

Uranus 20205-03-15 07:26 G 9100857.65 9100857.81 9100857.97 0.0146 0.0013

Uranus 20205-06-11 12:57 G 9100945.89 9100946.04 9100946.19 0.0146 0.0037

Uranus 20205-09-07 18:28 G 9101034.13 9101034.27 9101034.42 0.0146 0.0062

Uranus 20205-12-05 00:00 G 9101122.38 9101122.50 9101122.63 0.0146 0.0088

Uranus 20206-03-03 05:45 G 9101210.64 9101210.74 9101210.84 0.0146 0.0113

Mars 20206-03-04 06:14 G 9101211.62 9101211.76 9101211.90 0.1605 0.0144

Uranus 20206-05-30 11:16 G 9101298.93 9101298.97 9101299.03 0.0146 0.0138

Jupiter 20207-10-03 10:33 G 9101789.79 9101789.94 9101790.08 0.0529 0.0200

Moon 20209-06-11 20:52 G 9102407.33 9102407.37 9102407.42 0.2655 0.2467

Earth 20209-06-11 21:36 G 9102407.37 9102407.40 9102407.42 0.2650 0.2597 *

Moon 20211-12-10 22:48 G 9103319.36 9103319.45 9103319.53 0.2688 0.1984

Earth 20211-12-10 22:48 G 9103319.37 9103319.45 9103319.53 0.2681 0.2031 *

Mars 20212-10-29 11:45 G 9103642.91 9103642.99 9103643.07 0.1938 0.1522

Jupiter 20213-05-20 21:36 G 9103846.25 9103846.40 9103846.54 0.0498 0.0016

Saturn 20215-07-20 18:57 G 9104637.22 9104637.29 9104637.36 0.0275 0.0237

Mars 20215-07-25 13:55 G 9104641.95 9104642.08 9104642.21 0.1608 0.0562

Saturn 20215-10-17 08:38 G 9104725.73 9104725.86 9104725.99 0.0275 0.0138

Saturn 20216-01-13 22:33 G 9104814.29 9104814.44 9104814.59 0.0275 0.0037

Saturn 20216-04-11 12:43 G 9104902.89 9104903.03 9104903.18 0.0276 0.0068

Saturn 20216-07-09 03:21 G 9104991.53 9104991.64 9104991.76 0.0276 0.0174

Jupiter 20219-07-22 10:19 G 9106099.82 9106099.93 9106100.03 0.0528 0.0391

Jupiter 20219-10-20 08:24 G 9106189.74 9106189.85 9106189.97 0.0532 0.0364

Venus 20221-01-04 10:19 G 9106631.86 9106631.93 9106631.99 0.3691 0.3048

Mars 20222-03-21 15:36 G 9107073.02 9107073.15 9107073.28 0.1933 0.0269

Mars 20224-12-14 21:36 G 9108072.31 9108072.40 9108072.48 0.1611 0.1262

Jupiter 20225-03-09 00:43 G 9108156.39 9108156.53 9108156.67 0.0499 0.0127

Jupiter 20225-06-06 12:00 G 9108245.94 9108246.00 9108246.06 0.0496 0.0449

Venus 20226-07-21 06:14 G 9108655.65 9108655.76 9108655.87 0.3691 0.1332

Venus 20228-02-01 00:14 G 9109215.45 9109215.51 9109215.58 0.3680 0.3157

Moon 20229-06-07 04:19 G 9109707.56 9109707.68 9109707.81 0.2648 0.1020

Earth 20229-06-07 05:16 G 9109707.60 9109707.72 9109707.85 0.2650 0.0840 *

Pluto 20229-06-28 23:02 G 9109729.41 9109729.46 9109729.52 0.0070 0.0063

Pluto 20229-09-24 23:31 G 9109817.41 9109817.48 9109817.57 0.0070 0.0054

Saturn 20229-11-29 05:02 G 9109882.66 9109882.71 9109882.77 0.0284 0.0265

Pluto 20229-12-22 00:00 G 9109905.41 9109905.50 9109905.62 0.0070 0.0045

Saturn 20230-02-25 22:48 G 9109971.31 9109971.45 9109971.59 0.0284 0.0140

Pluto 20230-03-20 00:57 G 9109993.43 9109993.54 9109993.66 0.0071 0.0035

Saturn 20230-05-25 15:50 G 9110060.01 9110060.16 9110060.32 0.0283 0.0020

Pluto 20230-06-16 01:26 G 9110081.45 9110081.56 9110081.69 0.0071 0.0026

Saturn 20230-08-22 08:38 G 9110148.72 9110148.86 9110149.01 0.0283 0.0100

Pluto 20230-09-12 02:09 G 9110169.47 9110169.59 9110169.72 0.0071 0.0016

Saturn 20230-11-19 00:43 G 9110237.44 9110237.53 9110237.64 0.0283 0.0216

Pluto 20230-12-09 02:52 G 9110257.49 9110257.62 9110257.75 0.0071 0.0006

Pluto 20231-03-07 03:36 G 9110345.51 9110345.65 9110345.78 0.0071 0.0004

Pluto 20231-06-03 04:04 G 9110433.54 9110433.67 9110433.80 0.0071 0.0013

Jupiter 20231-08-08 09:21 G 9110499.75 9110499.89 9110500.04 0.0531 0.0189

Mars 20231-08-11 19:26 G 9110503.20 9110503.31 9110503.42 0.1929 0.0981

Pluto 20231-08-30 04:48 G 9110521.58 9110521.70 9110521.83 0.0071 0.0022

Pluto 20231-11-26 05:16 G 9110609.61 9110609.72 9110609.84 0.0071 0.0032

Moon 20231-12-06 08:52 G 9110619.76 9110619.87 9110619.97 0.2683 0.1332

Earth 20231-12-06 09:36 G 9110619.79 9110619.90 9110620.01 0.2682 0.1183 *

Venus 20232-02-04 01:55 G 9110679.47 9110679.58 9110679.70 0.3692 0.0336

Pluto 20232-02-22 05:45 G 9110697.65 9110697.74 9110697.86 0.0071 0.0043

Pluto 20232-05-20 06:43 G 9110785.69 9110785.78 9110785.87 0.0072 0.0052

Pluto 20232-08-16 07:26 G 9110873.75 9110873.81 9110873.87 0.0072 0.0062

Neptune 20233-05-16 09:50 G 9111146.88 9111146.91 9111146.96 0.0088 0.0084

Neptune 20233-08-12 11:31 G 9111234.92 9111234.98 9111235.06 0.0088 0.0077

Venus 20233-08-16 21:36 G 9111239.29 9111239.40 9111239.52 0.3679 0.1360

Neptune 20233-11-08 13:40 G 9111322.98 9111323.07 9111323.16 0.0088 0.0070

Neptune 20234-02-04 15:21 G 9111411.04 9111411.14 9111411.25 0.0088 0.0062

Neptune 20234-05-03 17:02 G 9111499.11 9111499.21 9111499.34 0.0088 0.0055

Neptune 20234-07-30 18:57 G 9111587.18 9111587.29 9111587.43 0.0088 0.0048

Neptune 20234-10-26 20:52 G 9111675.25 9111675.37 9111675.51 0.0088 0.0041

Neptune 20235-01-22 22:48 G 9111763.32 9111763.45 9111763.60 0.0088 0.0033

Neptune 20235-04-21 00:57 G 9111851.39 9111851.54 9111851.68 0.0088 0.0025

Neptune 20235-07-18 02:38 G 9111939.47 9111939.61 9111939.77 0.0088 0.0018

Neptune 20235-10-14 04:48 G 9112027.55 9112027.70 9112027.85 0.0088 0.0010

Neptune 20236-01-10 06:43 G 9112115.62 9112115.78 9112115.93 0.0088 0.0003

Neptune 20236-04-07 08:38 G 9112203.70 9112203.86 9112204.01 0.0088 0.0005

Mars 20236-04-11 23:02 G 9112208.35 9112208.46 9112208.57 0.1602 0.0963

Neptune 20236-07-04 10:33 G 9112291.79 9112291.94 9112292.09 0.0088 0.0012

Neptune 20236-09-30 12:28 G 9112379.87 9112380.02 9112380.17 0.0088 0.0020

Jupiter 20236-12-26 03:50 G 9112466.54 9112466.66 9112466.78 0.0499 0.0268

Neptune 20236-12-27 14:09 G 9112467.96 9112468.09 9112468.25 0.0088 0.0028

Jupiter 20237-03-25 14:38 G 9112555.99 9112556.11 9112556.22 0.0496 0.0303

Neptune 20237-03-25 16:19 G 9112556.04 9112556.18 9112556.32 0.0088 0.0035 *

Neptune 20237-06-21 18:14 G 9112644.13 9112644.26 9112644.40 0.0088 0.0043

Venus 20237-08-19 21:21 G 9112703.29 9112703.39 9112703.49 0.3692 0.1905

Neptune 20237-09-17 20:09 G 9112732.22 9112732.34 9112732.47 0.0088 0.0051

Neptune 20237-12-14 22:19 G 9112820.32 9112820.43 9112820.55 0.0088 0.0058

Neptune 20238-03-13 00:14 G 9112908.41 9112908.51 9112908.61 0.0088 0.0066

Neptune 20238-06-09 02:09 G 9112996.52 9112996.59 9112996.68 0.0088 0.0074

Neptune 20238-09-05 04:04 G 9113084.63 9113084.67 9113084.74 0.0088 0.0082

Venus 20239-03-02 19:26 G 9113263.18 9113263.31 9113263.43 0.3679 0.0541

Moon 20242-06-10 03:21 G 9114458.51 9114458.64 9114458.76 0.2651 0.0967

Earth 20242-06-10 04:19 G 9114458.56 9114458.68 9114458.80 0.2650 0.1111 *

Venus 20243-03-05 16:19 G 9114727.14 9114727.18 9114727.22 0.3693 0.3426

Jupiter	20243-05-27 10:04 G	9114809.76	9114809.92	9114810.07	0.0530	0.0012
Venus	20244-09-15 17:31 G	9115287.14	9115287.23	9115287.32	0.3678	0.2515
Moon	20244-12-08 06:14 G	9115370.64	9115370.76	9115370.88	0.2688	0.0508
Earth	20244-12-08 06:43 G	9115370.66	9115370.78	9115370.90	0.2682	0.0584 *
Saturn	20245-03-05 08:38 G	9115457.74	9115457.86	9115457.97	0.0275	0.0180
Saturn	20245-06-01 22:19 G	9115546.29	9115546.43	9115546.57	0.0275	0.0079
Saturn	20245-08-29 12:28 G	9115634.87	9115635.02	9115635.17	0.0276	0.0024
Mars	20245-09-02 06:28 G	9115638.63	9115638.77	9115638.91	0.1605	0.0248
Uranus	20245-10-24 04:04 G	9115690.60	9115690.67	9115690.75	0.0133	0.0116
Saturn	20245-11-26 02:52 G	9115723.49	9115723.62	9115723.76	0.0276	0.0131
Uranus	20246-01-20 08:38 G	9115778.76	9115778.86	9115778.98	0.0133	0.0097
Saturn	20246-02-22 17:45 G	9115812.17	9115812.24	9115812.32	0.0276	0.0239
Uranus	20246-04-18 13:26 G	9115866.93	9115867.06	9115867.19	0.0133	0.0077
Uranus	20246-07-15 18:00 G	9115955.11	9115955.25	9115955.39	0.0133	0.0058
Uranus	20246-10-11 22:33 G	9116043.29	9116043.44	9116043.59	0.0133	0.0039
Uranus	20247-01-08 02:52 G	9116131.47	9116131.62	9116131.78	0.0133	0.0021
Uranus	20247-04-06 07:26 G	9116219.66	9116219.81	9116219.97	0.0133	0.0003
Uranus	20247-07-03 11:45 G	9116307.84	9116307.99	9116308.15	0.0133	0.0017
Uranus	20247-09-29 16:19 G	9116396.03	9116396.18	9116396.33	0.0133	0.0035
Uranus	20247-12-26 20:24 G	9116484.22	9116484.35	9116484.50	0.0133	0.0054
Uranus	20248-03-24 00:43 G	9116572.41	9116572.53	9116572.67	0.0133	0.0072
Uranus	20248-06-20 05:02 G	9116660.60	9116660.71	9116660.83	0.0133	0.0090
Uranus	20248-09-16 09:07 G	9116748.80	9116748.88	9116748.98	0.0133	0.0108
Jupiter	20248-10-14 06:57 G	9116776.71	9116776.79	9116776.87	0.0500	0.0406
Uranus	20248-12-13 13:40 G	9116837.02	9116837.07	9116837.12	0.0133	0.0125
Jupiter	20249-01-11 17:31 G	9116866.09	9116866.23	9116866.37	0.0497	0.0161
Mars	20252-04-29 11:45 G	9118069.92	9118069.99	9118070.05	0.1938	0.1631
Mars	20255-01-23 14:09 G	9119068.95	9119069.09	9119069.22	0.1608	0.0460
Jupiter	20255-03-15 09:36 G	9119119.75	9119119.90	9119120.05	0.0529	0.0184
Earth	20257-12-11 04:04 G	9120121.61	9120121.67	9120121.72	0.2681	0.2402

Moon 20257-12-11 04:19 G 9120121.63 9120121.68 9120121.72 0.2688 0.2481 *

Saturn 20259-07-15 23:31 G 9120703.36 9120703.48 9120703.61 0.0285 0.0176

Saturn 20259-10-12 17:02 G 9120792.05 9120792.21 9120792.36 0.0284 0.0052

Saturn 20260-01-09 09:50 G 9120880.76 9120880.91 9120881.06 0.0284 0.0068

Saturn 20260-04-07 02:24 G 9120969.48 9120969.60 9120969.72 0.0283 0.0185

Jupiter 20260-10-30 20:09 G 9121176.19 9121176.34 9121176.49 0.0498 0.0017

Mars 20261-09-19 15:50 G 9121500.04 9121500.16 9121500.29 0.1934 0.0417

Moon 20262-06-05 11:16 G 9121758.94 9121758.97 9121759.00 0.2644 0.2562

Earth 20262-06-05 11:45 G 9121758.94 9121758.99 9121759.04 0.2650 0.2424 *

Mars 20264-06-14 21:50 G 9122499.32 9122499.41 9122499.51 0.1611 0.1155

Earth 20264-12-03 18:00 G 9122671.22 9122671.25 9122671.29 0.2682 0.2542

Jupiter 20267-01-01 09:07 G 9123429.78 9123429.88 9123430.00 0.0528 0.0376

Jupiter 20267-04-01 07:26 G 9123519.70 9123519.81 9123519.92 0.0531 0.0376

Mars 20271-02-09 19:40 G 9124930.20 9124930.32 9124930.44 0.1929 0.0850

Jupiter 20272-08-18 23:16 G 9125486.33 9125486.47 9125486.61 0.0499 0.0121

Jupiter 20272-11-16 10:33 G 9125575.88 9125575.94 9125575.99 0.0496 0.0456

Saturn 20274-07-23 10:48 G 9126189.86 9126189.95 9126190.05 0.0274 0.0204

Saturn 20274-10-20 00:28 G 9126278.39 9126278.52 9126278.66 0.0275 0.0105

Saturn 20275-01-16 14:38 G 9126366.96 9126367.11 9126367.26 0.0275 0.0003

Saturn 20275-04-15 05:02 G 9126455.57 9126455.71 9126455.85 0.0275 0.0102

Moon 20275-06-08 09:50 G 9126509.78 9126509.91 9126510.04 0.2649 0.0502

Earth 20275-06-08 11:02 G 9126509.83 9126509.96 9126510.09 0.2650 0.0434 *

Saturn 20275-07-12 19:40 G 9126544.22 9126544.32 9126544.42 0.0276 0.0210

Mars 20275-10-11 23:16 G 9126635.37 9126635.47 9126635.58 0.1602 0.1078

Venus 20277-08-11 08:52 G 9127304.79 9127304.87 9127304.96 0.3691 0.2501

Moon 20277-12-06 14:09 G 9127421.97 9127422.09 9127422.20 0.2685 0.0874

Earth 20277-12-06 14:52 G 9127422.01 9127422.12 9127422.24 0.2682 0.0822 *

Jupiter 20279-01-18 07:26 G 9127829.67 9127829.81 9127829.96 0.0531 0.0191

Venus 20283-02-25 04:48 G 9129328.59 9129328.70 9129328.82 0.3691 0.0807

Jupiter 20284-06-07 02:38 G 9129796.49 9129796.61 9129796.74 0.0500 0.0256

Jupiter 20284-09-04 13:26 G 9129885.95 9129886.06 9129886.18 0.0497 0.0318

Venus 20284-09-06 23:16 G 9129888.38 9129888.47 9129888.56 0.3680 0.2600

Mars 20285-03-03 06:43 G 9130065.64 9130065.78 9130065.92 0.1605 0.0354

Uranus 20287-07-27 02:24 G 9130941.60 9130941.60 9130941.60 0.0146 0.0145

Uranus 20287-10-23 07:12 G 9131029.73 9131029.80 9131029.90 0.0146 0.0123

Uranus 20288-01-19 12:43 G 9131117.92 9131118.03 9131118.15 0.0146 0.0099

Uranus 20288-04-16 18:00 G 9131206.12 9131206.25 9131206.39 0.0146 0.0075

Moon 20288-06-10 08:52 G 9131260.76 9131260.87 9131260.98 0.2652 0.1355

Earth 20288-06-10 09:50 G 9131260.80 9131260.91 9131261.02 0.2650 0.1501 *

Uranus 20288-07-13 23:16 G 9131294.33 9131294.47 9131294.62 0.0146 0.0051

Venus 20288-09-10 00:28 G 9131352.41 9131352.52 9131352.64 0.3692 0.0841

Uranus 20288-10-10 04:48 G 9131382.55 9131382.70 9131382.85 0.0146 0.0027

Saturn 20288-12-01 22:33 G 9131435.34 9131435.44 9131435.54 0.0284 0.0222

Uranus 20289-01-06 10:19 G 9131470.77 9131470.93 9131471.08 0.0146 0.0004

Saturn 20289-02-28 16:04 G 9131524.02 9131524.17 9131524.32 0.0284 0.0097

Uranus 20289-04-04 15:36 G 9131559.00 9131559.15 9131559.31 0.0146 0.0023

Saturn 20289-05-28 09:07 G 9131612.73 9131612.88 9131613.04 0.0283 0.0025

Uranus 20289-07-01 21:07 G 9131647.23 9131647.38 9131647.53 0.0146 0.0047

Saturn 20289-08-25 01:40 G 9131701.44 9131701.57 9131701.71 0.0283 0.0142

Uranus 20289-09-28 02:38 G 9131735.48 9131735.61 9131735.75 0.0146 0.0072

Saturn 20289-11-21 17:45 G 9131790.19 9131790.24 9131790.31 0.0283 0.0256

Uranus 20289-12-25 08:09 G 9131823.73 9131823.84 9131823.97 0.0146 0.0098

Uranus 20290-03-23 13:55 G 9131912.00 9131912.08 9131912.17 0.0146 0.0123

Venus 20290-03-23 20:38 G 9131912.24 9131912.36 9131912.49 0.3679 0.0775

Jupiter 20290-11-06 08:09 G 9132139.69 9132139.84 9132140.00 0.0530 0.0016

Moon 20290-12-09 11:31 G 9132172.86 9132172.98 9132173.10 0.2688 0.0885

Earth 20290-12-09 12:00 G 9132172.88 9132173.00 9132173.12 0.2682 0.0953 *

Mars 20291-10-29 12:00 G 9132496.96 9132497.00 9132497.05 0.1938 0.1781

Venus 20294-03-26 19:40 G 9133376.24 9133376.32 9133376.41 0.3693 0.2399

Mars 20294-07-24 14:24 G 9133495.96 9133496.10 9133496.24 0.1608 0.0355

Venus 20295-10-07 18:28 G 9133936.15 9133936.27 9133936.39 0.3679 0.1143

Jupiter 20296-03-26 05:45 G 9134106.66 9134106.74 9134106.83 0.0500 0.0395

Jupiter 20296-06-23 16:19 G 9134196.04 9134196.18 9134196.32 0.0497 0.0173

Mars 20301-03-21 16:04 G 9135927.05 9135927.17 9135927.30 0.1934 0.0540

Venus 20301-04-23 16:48 G 9135960.14 9135960.20 9135960.26 0.3678 0.3168

Jupiter 20302-08-26 08:38 G 9136449.72 9136449.86 9136450.01 0.0530 0.0168

Saturn 20303-12-11 10:33 G 9136921.89 9136921.94 9136922.01 0.0275 0.0246

Mars 20303-12-15 22:04 G 9136926.31 9136926.42 9136926.52 0.1611 0.1056

Saturn 20304-03-09 00:14 G 9137010.39 9137010.51 9137010.64 0.0275 0.0147

Saturn 20304-06-05 14:09 G 9137098.95 9137099.09 9137099.24 0.0275 0.0046

Saturn 20304-09-02 04:19 G 9137187.54 9137187.68 9137187.83 0.0276 0.0058

Saturn 20304-11-29 18:57 G 9137276.17 9137276.29 9137276.41 0.0276 0.0164

Saturn 20305-02-26 09:50 G 9137364.89 9137364.91 9137364.93 0.0276 0.0273

Jupiter 20308-04-12 19:12 G 9138506.16 9138506.30 9138506.45 0.0498 0.0036

Moon 20308-06-06 16:33 G 9138561.11 9138561.19 9138561.28 0.2645 0.2022

Earth 20308-06-06 17:16 G 9138561.14 9138561.22 9138561.31 0.2650 0.2011 *

Mars 20310-08-11 19:55 G 9139357.21 9139357.33 9139357.45 0.1929 0.0726

Moon 20310-12-05 22:19 G 9139473.37 9139473.43 9139473.50 0.2680 0.2236

Earth 20310-12-05 23:16 G 9139473.40 9139473.47 9139473.54 0.2682 0.2193 *

Jupiter 20314-06-14 08:24 G 9140759.73 9140759.85 9140759.96 0.0528 0.0359

Jupiter 20314-09-12 06:28 G 9140849.67 9140849.77 9140849.87 0.0531 0.0393

Mars 20315-04-12 23:31 G 9141062.39 9141062.48 9141062.58 0.1602 0.1182

Pluto 20315-05-15 07:12 G 9141094.71 9141094.80 9141094.93 0.0074 0.0061

Pluto 20315-08-11 09:50 G 9141182.77 9141182.91 9141183.08 0.0073 0.0045

Pluto 20315-11-07 12:28 G 9141270.85 9141271.02 9141271.21 0.0073 0.0028

Pluto 20316-02-03 15:07 G 9141358.94 9141359.13 9141359.32 0.0073 0.0013

Pluto 20316-05-01 17:31 G 9141447.04 9141447.23 9141447.43 0.0073 0.0003

Pluto 20316-07-28 19:40 G 9141535.14 9141535.32 9141535.52 0.0073 0.0019

Pluto 20316-10-24 22:19 G 9141623.26 9141623.43 9141623.61 0.0073 0.0034

Neptune 20316-11-10 00:57 G 9141639.51 9141639.54 9141639.59 0.0089 0.0086

Pluto 20317-01-21 00:14 G 9141711.39 9141711.51 9141711.68 0.0073 0.0050

Neptune 20317-02-06 03:36 G 9141727.58 9141727.65 9141727.73 0.0089 0.0078

Pluto 20317-04-19 02:38 G 9141799.55 9141799.61 9141799.72 0.0073 0.0065

Neptune 20317-05-05 05:45 G 9141815.65 9141815.74 9141815.86 0.0089 0.0070

Neptune 20317-08-01 08:24 G 9141903.74 9141903.85 9141903.98 0.0089 0.0061

Neptune 20317-10-28 11:02 G 9141991.83 9141991.96 9141992.10 0.0089 0.0052

Neptune 20318-01-24 13:26 G 9142079.92 9142080.06 9142080.21 0.0089 0.0043

Saturn 20318-04-21 22:48 G 9142167.39 9142167.45 9142167.52 0.0285 0.0261

Neptune 20318-04-22 15:50 G 9142168.01 9142168.16 9142168.32 0.0089 0.0035

Saturn 20318-07-19 16:33 G 9142256.05 9142256.19 9142256.33 0.0285 0.0135

Neptune 20318-07-19 18:14 G 9142256.11 9142256.26 9142256.42 0.0089 0.0026 *

Neptune 20318-10-15 20:38 G 9142344.20 9142344.36 9142344.52 0.0089 0.0018

Saturn 20318-10-16 09:50 G 9142344.75 9142344.91 9142345.07 0.0284 0.0012

Neptune 20319-01-11 23:02 G 9142432.30 9142432.46 9142432.63 0.0089 0.0009

Saturn 20319-01-13 02:38 G 9142433.47 9142433.61 9142433.76 0.0284 0.0107

Neptune 20319-04-10 01:26 G 9142520.40 9142520.56 9142520.73 0.0089 0.0002

Saturn 20319-04-11 18:57 G 9142522.20 9142522.29 9142522.39 0.0284 0.0223

Neptune 20319-07-07 03:50 G 9142608.50 9142608.66 9142608.82 0.0089 0.0008

Neptune 20319-10-03 06:00 G 9142696.60 9142696.75 9142696.92 0.0089 0.0017

Neptune 20319-12-30 08:24 G 9142784.70 9142784.85 9142785.01 0.0089 0.0024

Jupiter 20320-01-30 22:04 G 9142816.28 9142816.42 9142816.56 0.0499 0.0114

Neptune 20320-03-27 10:48 G 9142872.80 9142872.95 9142873.10 0.0089 0.0033

Jupiter 20320-04-29 09:07 G 9142905.84 9142905.88 9142905.93 0.0496 0.0465

Neptune 20320-06-23 13:12 G 9142960.91 9142961.05 9142961.19 0.0089 0.0041

Neptune 20320-09-19 15:07 G 9143049.01 9143049.13 9143049.28 0.0089 0.0050

Neptune 20320-12-16 17:31 G 9143137.12 9143137.23 9143137.36 0.0089 0.0057

Neptune 20321-03-14 19:55 G 9143225.23 9143225.33 9143225.44 0.0089 0.0065

Moon 20321-06-09 15:21 G 9143312.01 9143312.14 9143312.28 0.2649 0.0256

Earth 20321-06-09 16:33 G 9143312.06 9143312.19 9143312.32 0.2650 0.0019 *

Neptune 20321-06-10 22:04 G 9143313.34 9143313.42 9143313.52 0.0089 0.0074

Neptune 20321-09-07 00:28 G 9143401.46 9143401.52 9143401.59 0.0089 0.0082

Moon 20323-12-08 19:26 G 9144224.19 9144224.31 9144224.43 0.2686 0.0644

Earth 20323-12-08 20:09 G 9144224.22 9144224.34 9144224.46 0.2682 0.0460 *

Mars 20324-09-02 07:12 G 9144492.66 9144492.80 9144492.93 0.1605 0.0469

Jupiter 20326-07-01 06:43 G 9145159.63 9145159.78 9145159.92 0.0530 0.0207

Uranus 20329-08-18 07:26 G 9146303.77 9146303.81 9146303.86 0.0133 0.0127

Uranus 20329-11-14 12:00 G 9146391.92 9146392.00 9146392.10 0.0133 0.0108

Uranus 20330-02-10 16:33 G 9146480.08 9146480.19 9146480.32 0.0133 0.0089

Uranus 20330-05-09 21:21 G 9146568.26 9146568.39 9146568.53 0.0133 0.0069

Uranus 20330-08-06 01:55 G 9146656.43 9146656.58 9146656.73 0.0133 0.0050

Uranus 20330-11-02 06:14 G 9146744.62 9146744.76 9146744.92 0.0133 0.0032

Uranus 20331-01-29 10:48 G 9146832.80 9146832.95 9146833.11 0.0133 0.0013

Uranus 20331-04-27 15:21 G 9146920.98 9146921.14 9146921.30 0.0133 0.0006

Mars 20331-04-30 12:28 G 9146924.00 9146924.02 9146924.03 0.1938 0.1915

Uranus 20331-07-24 19:40 G 9147009.17 9147009.32 9147009.48 0.0133 0.0025

Uranus 20331-10-21 00:00 G 9147097.36 9147097.50 9147097.65 0.0133 0.0043

Jupiter 20331-11-19 01:12 G 9147126.43 9147126.55 9147126.67 0.0500 0.0251

Uranus 20332-01-17 04:19 G 9147185.55 9147185.68 9147185.82 0.0133 0.0061

Jupiter 20332-02-16 12:00 G 9147215.89 9147216.00 9147216.12 0.0497 0.0324

Uranus 20332-04-14 08:38 G 9147273.74 9147273.86 9147273.99 0.0133 0.0079

Uranus 20332-07-11 12:57 G 9147361.94 9147362.04 9147362.15 0.0133 0.0097

Uranus 20332-10-07 17:02 G 9147450.14 9147450.21 9147450.29 0.0133 0.0115

Uranus 20333-01-03 21:21 G 9147538.39 9147538.39 9147538.40 0.0133 0.0133

Saturn 20333-04-29 13:26 G 9147654.03 9147654.06 9147654.09 0.0274 0.0268

Saturn 20333-07-27 02:52 G 9147742.51 9147742.62 9147742.73 0.0274 0.0171

Saturn 20333-10-23 16:33 G 9147831.05 9147831.19 9147831.34 0.0275 0.0071

Saturn 20334-01-20 06:43 G 9147919.63 9147919.78 9147919.93 0.0275 0.0032

Mars 20334-01-23 14:38 G 9147922.97 9147923.11 9147923.25 0.1608 0.0246

Venus 20334-03-19 07:40 G 9147977.72 9147977.82 9147977.92 0.3691 0.1962

Saturn 20334-04-18 21:07 G 9148008.25 9148008.38 9148008.51 0.0275 0.0138

Moon 20334-06-12 14:38 G 9148063.01 9148063.11 9148063.20 0.2654 0.1845

Earth 20334-06-12 15:21 G 9148063.05 9148063.14 9148063.23 0.2650 0.1897 *

Saturn 20334-07-16 11:45 G 9148096.93 9148096.99 9148097.06 0.0276 0.0246

Moon 20336-12-10 17:02 G 9148975.10 9148975.21 9148975.32 0.2688 0.1331

Earth 20336-12-10 17:16 G 9148975.11 9148975.22 9148975.33 0.2681 0.1324 *

Jupiter 20338-04-19 06:28 G 9149469.62 9149469.77 9149469.93 0.0530 0.0017

Venus 20339-10-03 03:21 G 9150001.53 9150001.64 9150001.76 0.3692 0.0297

Mars 20340-09-19 16:19 G 9150354.06 9150354.18 9150354.31 0.1934 0.0675

Venus 20341-04-14 22:19 G 9150561.33 9150561.43 9150561.53 0.3680 0.2030

Mars 20343-06-15 22:19 G 9151353.32 9151353.43 9151353.54 0.1611 0.0953

Jupiter 20343-09-07 04:48 G 9151436.61 9151436.70 9151436.79 0.0501 0.0385

Jupiter 20343-12-05 15:21 G 9151526.00 9151526.14 9151526.27 0.0497 0.0185

Venus 20345-04-17 22:48 G 9152025.35 9152025.45 9152025.56 0.3692 0.1347

Venus 20346-10-29 19:40 G 9152585.20 9152585.32 9152585.45 0.3679 0.0217

Saturn 20347-12-06 15:50 G 9152988.04 9152988.16 9152988.29 0.0284 0.0179

Saturn 20348-03-04 09:21 G 9153076.73 9153076.89 9153077.04 0.0284 0.0055

Saturn 20348-06-01 02:09 G 9153165.44 9153165.59 9153165.75 0.0284 0.0066

Saturn 20348-08-28 18:43 G 9153254.16 9153254.28 9153254.40 0.0283 0.0182

Jupiter 20350-02-05 06:57 G 9153779.64 9153779.79 9153779.94 0.0529 0.0164

Mars 20350-02-09 20:09 G 9153784.22 9153784.34 9153784.47 0.1929 0.0582

Venus 20350-11-01 18:14 G 9154049.19 9154049.26 9154049.33 0.3693 0.2894

Venus 20352-05-14 17:45 G 9154609.13 9154609.24 9154609.35 0.3678 0.1774

Moon 20354-06-07 22:04 G 9155363.32 9155363.42 9155363.52 0.2646 0.1764

Earth 20354-06-07 23:02 G 9155363.35 9155363.46 9155363.56 0.2650 0.1590 *

Mars 20354-10-11 23:45 G 9155489.41 9155489.49 9155489.58 0.1601 0.1292

Jupiter 20355-09-23 18:14 G 9155836.11 9155836.26 9155836.40 0.0498 0.0043

Moon 20356-12-06 03:36 G 9156275.57 9156275.65 9156275.73 0.2682 0.2023

Earth 20356-12-06 04:33 G 9156275.60 9156275.69 9156275.78 0.2682 0.1837 *

Mars 20359-07-02 23:45 G 9157214.46 9157214.49 9157214.51 0.1924 0.1872

Jupiter 20361-11-24 07:26 G 9158089.69 9158089.81 9158089.93 0.0528 0.0345

Jupiter 20362-02-22 05:31 G 9158179.64 9158179.73 9158179.83 0.0532 0.0410

Saturn 20362-12-14 02:38 G 9158474.52 9158474.61 9158474.70 0.0275 0.0213

Saturn 20363-03-12 16:19 G 9158563.05 9158563.18 9158563.32 0.0275 0.0114

Saturn 20363-06-09 06:14 G 9158651.61 9158651.76 9158651.91 0.0275 0.0012

Saturn 20363-09-05 20:38 G 9158740.21 9158740.36 9158740.50 0.0275 0.0093

Saturn 20363-12-03 11:02 G 9158828.86 9158828.96 9158829.07 0.0276 0.0200

Mars 20364-03-03 07:12 G 9158919.67 9158919.80 9158919.93 0.1604 0.0570

Moon 20367-06-10 20:52 G 9160114.24 9160114.37 9160114.51 0.2649 0.0326

Earth 20367-06-10 22:04 G 9160114.29 9160114.42 9160114.55 0.2650 0.0381 *

Jupiter 20367-07-12 21:21 G 9160146.24 9160146.39 9160146.53 0.0499 0.0098

Jupiter 20367-10-10 08:24 G 9160235.82 9160235.85 9160235.89 0.0496 0.0479

Moon 20369-12-09 00:28 G 9161026.40 9161026.52 9161026.65 0.2686 0.0164

Earth 20369-12-09 01:26 G 9161026.43 9161026.56 9161026.68 0.2681 0.0117 *

Uranus 20371-08-17 09:36 G 9161642.87 9161642.90 9161642.96 0.0146 0.0139

Uranus 20371-11-13 14:52 G 9161731.04 9161731.12 9161731.22 0.0146 0.0116

Uranus 20372-02-09 20:09 G 9161819.23 9161819.34 9161819.47 0.0146 0.0092

Uranus 20372-05-08 01:40 G 9161907.43 9161907.57 9161907.70 0.0146 0.0068

Uranus 20372-08-04 06:57 G 9161995.64 9161995.79 9161995.94 0.0146 0.0044

Uranus 20372-10-31 12:14 G 9162083.86 9162084.01 9162084.17 0.0146 0.0020

Uranus 20373-01-27 17:45 G 9162172.08 9162172.24 9162172.40 0.0146 0.0005

Uranus 20373-04-25 23:16 G 9162260.31 9162260.47 9162260.62 0.0146 0.0030

Uranus 20373-07-23 04:33 G 9162348.55 9162348.69 9162348.84 0.0146 0.0055

Mars 20373-07-24 14:52 G 9162349.98 9162350.12 9162350.26 0.1608 0.0142

Uranus 20373-10-19 10:04 G 9162436.80 9162436.92 9162437.06 0.0146 0.0080

Jupiter 20373-12-11 05:45 G 9162489.60 9162489.74 9162489.88 0.0530 0.0223

Uranus 20374-01-15 15:36 G 9162525.05 9162525.15 9162525.27 0.0146 0.0105

Uranus 20374-04-13 21:21 G 9162613.33 9162613.39 9162613.47 0.0146 0.0130

Saturn 20377-04-24 15:50 G 9163720.06 9163720.16 9163720.26 0.0285 0.0221

Saturn 20377-07-22 09:21 G 9163808.74 9163808.89 9163809.04 0.0285 0.0096

Saturn 20377-10-19 02:38 G 9163897.45 9163897.61 9163897.77 0.0284 0.0027

Saturn 20378-01-15 19:12 G 9163986.17 9163986.30 9163986.44 0.0284 0.0146

Saturn 20378-04-14 11:31 G 9164074.93 9164074.98 9164075.04 0.0284 0.0261

Jupiter 20379-04-30 23:45 G 9164456.37 9164456.49 9164456.62 0.0500 0.0245

Jupiter 20379-07-29 10:48 G 9164545.84 9164545.95 9164546.06 0.0497 0.0331

Mars 20380-03-20 16:33 G 9164781.08 9164781.19 9164781.31 0.1934 0.0811

Moon 20380-06-12 20:09 G 9164865.27 9164865.34 9164865.42 0.2656 0.2131

Earth 20380-06-12 20:52 G 9164865.31 9164865.37 9164865.43 0.2650 0.2289 *

Moon 20382-12-11 22:33 G 9165777.34 9165777.44 9165777.54 0.2688 0.1639

Earth 20382-12-11 22:33 G 9165777.34 9165777.44 9165777.53 0.2681 0.1693 *

Mars 20382-12-14 22:33 G 9165780.32 9165780.44 9165780.56 0.1611 0.0845

Venus 20385-04-09 10:04 G 9166626.86 9166626.92 9166626.98 0.3691 0.3153

Jupiter 20385-09-29 05:45 G 9166799.58 9166799.74 9166799.90 0.0529 0.0035

Mars 20389-08-10 20:38 G 9168211.23 9168211.36 9168211.49 0.1929 0.0440

Venus 20390-10-24 06:14 G 9168650.65 9168650.76 9168650.87 0.3691 0.1415

Jupiter 20391-02-17 03:07 G 9168766.54 9168766.63 9168766.72 0.0501 0.0381

Jupiter 20391-05-17 13:40 G 9168855.94 9168856.07 9168856.21 0.0498 0.0190

Saturn 20392-05-02 05:31 G 9169206.66 9169206.73 9169206.80 0.0274 0.0234

Venus 20392-05-06 00:00 G 9169210.45 9169210.50 9169210.56 0.3680 0.3246

Mars 20392-05-06 06:28 G 9169210.73 9169210.77 9169210.80 0.1614 0.1543

Saturn 20392-07-29 18:57 G 9169295.16 9169295.29 9169295.42 0.0274 0.0136

Saturn 20392-10-26 08:52 G 9169383.72 9169383.87 9169384.02 0.0275 0.0035

Saturn 20393-01-22 23:02 G 9169472.31 9169472.46 9169472.61 0.0275 0.0068

Saturn 20393-04-21 13:26 G 9169560.95 9169561.06 9169561.18 0.0275 0.0175

Mars 20394-04-12 00:14 G 9169916.44 9169916.51 9169916.58 0.1601 0.1404

Venus 20396-05-09 01:55 G 9170674.46 9170674.58 9170674.70 0.3692 0.0256

Jupiter 20397-07-18 05:16 G 9171109.57 9171109.72 9171109.87 0.0529 0.0159

Venus 20397-11-19 21:21 G 9171234.27 9171234.39 9171234.50 0.3679 0.1453

Neptune 20398-02-11 08:24 G 9171317.82 9171317.85 9171317.92 0.0088 0.0083

Neptune 20398-05-10 10:33 G 9171405.87 9171405.94 9171406.02 0.0088 0.0075

Neptune 20398-08-06 12:14 G 9171493.93 9171494.01 9171494.11 0.0088 0.0068

Neptune 20398-11-02 13:55 G 9171581.99 9171582.08 9171582.20 0.0088 0.0061

Mars 20399-01-01 00:00 G 9171641.44 9171641.50 9171641.55 0.1924 0.1735

Neptune 20399-01-29 16:04 G 9171670.05 9171670.17 9171670.29 0.0088 0.0053

Neptune 20399-04-27 17:45 G 9171758.12 9171758.24 9171758.38 0.0088 0.0046

Neptune 20399-07-24 19:40 G 9171846.19 9171846.32 9171846.46 0.0088 0.0039

Neptune 20399-10-20 21:36 G 9171934.26 9171934.40 9171934.55 0.0088 0.0031

Neptune 20400-01-16 23:31 G 9172022.34 9172022.48 9172022.63 0.0088 0.0024

Neptune 20400-04-14 01:26 G 9172110.41 9172110.56 9172110.71 0.0088 0.0016

Moon 20400-06-08 03:36 G 9172165.53 9172165.65 9172165.77 0.2647 0.1265

Earth 20400-06-08 04:33 G 9172165.57 9172165.69 9172165.81 0.2650 0.1180 *

Neptune 20400-07-11 03:21 G 9172198.49 9172198.64 9172198.79 0.0088 0.0009

Neptune 20400-10-07 05:16 G 9172286.57 9172286.72 9172286.87 0.0088 0.0002

Neptune 20401-01-03 07:12 G 9172374.65 9172374.80 9172374.95 0.0088 0.0006

Neptune 20401-04-01 09:07 G 9172462.73 9172462.88 9172463.03 0.0088 0.0014

Neptune 20401-06-28 11:02 G 9172550.82 9172550.96 9172551.11 0.0088 0.0022

Neptune 20401-09-24 12:57 G 9172638.90 9172639.04 9172639.19 0.0088 0.0029

Venus 20401-11-22 21:21 G 9172698.29 9172698.39 9172698.49 0.3692 0.1848

Neptune 20401-12-21 14:52 G 9172726.99 9172727.12 9172727.27 0.0088 0.0037

Neptune 20402-03-19 17:02 G 9172815.08 9172815.21 9172815.34 0.0088 0.0044

Neptune 20402-06-15 18:43 G 9172903.17 9172903.28 9172903.41 0.0088 0.0052

Neptune 20402-09-11 20:38 G 9172991.26 9172991.36 9172991.49 0.0088 0.0060

Moon 20402-12-07 08:52 G 9173077.77 9173077.87 9173077.97 0.2683 0.1561

Earth 20402-12-07 09:50 G 9173077.80 9173077.91 9173078.01 0.2682 0.1488 *

Neptune 20402-12-08 22:33 G 9173079.36 9173079.44 9173079.55 0.0088 0.0068

Jupiter 20403-03-05 17:02 G 9173166.06 9173166.21 9173166.35 0.0498 0.0053

Neptune 20403-03-07 00:57 G 9173167.46 9173167.54 9173167.62 0.0088 0.0075

Neptune 20403-06-03 02:52 G 9173255.58 9173255.62 9173255.67 0.0088 0.0083

Venus 20403-06-05 18:57 G 9173258.16 9173258.29 9173258.41 0.3679 0.0436

Mars 20403-09-02 07:26 G 9173346.69 9173346.81 9173346.94 0.1604 0.0680

Saturn 20406-09-11 15:21 G 9174452.09 9174452.14 9174452.21 0.0285 0.0263

Saturn 20406-12-09 09:07 G 9174540.74 9174540.88 9174541.03 0.0284 0.0137

Saturn 20407-03-08 02:24 G 9174629.45 9174629.60 9174629.76 0.0284 0.0016

Saturn 20407-06-04 19:12 G 9174718.16 9174718.30 9174718.45 0.0284 0.0107

Venus 20407-06-08 16:33 G 9174722.15 9174722.19 9174722.23 0.3693 0.3382

Saturn 20407-09-01 11:31 G 9174806.90 9174806.98 9174807.08 0.0283 0.0223

Venus 20408-12-19 17:02 G 9175282.12 9175282.21 9175282.30 0.3678 0.2420

Jupiter 20409-05-06 05:31 G 9175419.61 9175419.73 9175419.85 0.0528 0.0343

Jupiter 20409-08-04 03:50 G 9175509.56 9175509.66 9175509.75 0.0532 0.0411

Mars 20413-01-22 15:07 G 9176776.99 9176777.13 9176777.27 0.1608 0.0043

Moon 20413-06-11 02:38 G 9176916.48 9176916.61 9176916.74 0.2651 0.0578

Earth 20413-06-11 03:36 G 9176916.53 9176916.65 9176916.78 0.2650 0.0795 *

Uranus 20413-09-07 15:07 G 9177005.07 9177005.13 9177005.21 0.0133 0.0120

Uranus 20413-12-04 19:40 G 9177093.23 9177093.32 9177093.44 0.0133 0.0101

Uranus 20414-03-03 00:28 G 9177181.40 9177181.52 9177181.65 0.0133 0.0081

Uranus 20414-05-30 05:02 G 9177269.57 9177269.71 9177269.85 0.0133 0.0062

Uranus 20414-08-26 09:36 G 9177357.75 9177357.90 9177358.05 0.0133 0.0043

Uranus 20414-11-22 14:09 G 9177445.94 9177446.09 9177446.25 0.0133 0.0024

Jupiter 20414-12-22 19:55 G 9177476.19 9177476.33 9177476.48 0.0499 0.0089

Uranus 20415-02-18 18:43 G 9177534.12 9177534.28 9177534.43 0.0133 0.0006

Jupiter 20415-03-22 07:12 G 9177565.78 9177565.80 9177565.82 0.0496 0.0489

Uranus 20415-05-17 23:02 G 9177622.30 9177622.46 9177622.62 0.0133 0.0013

Uranus 20415-08-14 03:21 G 9177710.49 9177710.64 9177710.80 0.0133 0.0032

Uranus 20415-11-10 07:40 G 9177798.68 9177798.82 9177798.97 0.0133 0.0050

Moon 20415-12-10 06:00 G 9177828.63 9177828.75 9177828.87 0.2686 0.0103

Earth 20415-12-10 06:43 G 9177828.65 9177828.78 9177828.90 0.2681 0.0272 *

Uranus 20416-02-06 12:00 G 9177886.87 9177887.00 9177887.14 0.0133 0.0068

Uranus 20416-05-04 16:19 G 9177975.07 9177975.18 9177975.30 0.0133 0.0086

Uranus 20416-07-31 20:38 G 9178063.27 9178063.36 9178063.46 0.0133 0.0104

Uranus 20416-10-28 00:43 G 9178151.48 9178151.53 9178151.60 0.0133 0.0122

Mars 20419-09-19 17:02 G 9179208.09 9179208.21 9179208.32 0.1934 0.0947

Jupiter 20421-02-22 05:45 G 9179729.73 9179729.74 9179729.75 0.0527 0.0525

Jupiter 20421-05-23 04:33 G 9179819.55 9179819.69 9179819.83 0.0531 0.0236

Saturn 20421-12-16 18:57 G 9180027.18 9180027.29 9180027.40 0.0274 0.0177

Saturn 20422-03-15 08:38 G 9180115.72 9180115.86 9180116.00 0.0275 0.0078

Saturn 20422-06-11 22:33 G 9180204.29 9180204.44 9180204.59 0.0275 0.0025

Mars 20422-06-14 22:48 G 9180207.33 9180207.45 9180207.57 0.1611 0.0744

Saturn 20422-09-08 12:57 G 9180292.91 9180293.04 9180293.17 0.0275 0.0130

Saturn 20422-12-06 03:36 G 9180381.58 9180381.65 9180381.73 0.0276 0.0237

Jupiter 20426-10-10 23:02 G 9181786.34 9181786.46 9181786.59 0.0500 0.0228

Jupiter 20427-01-08 09:50 G 9181875.81 9181875.91 9181876.02 0.0497 0.0347

Earth 20428-12-12 03:50 G 9182579.58 9182579.66 9182579.74 0.2681 0.2063

Moon 20428-12-12 03:50 G 9182579.59 9182579.66 9182579.74 0.2688 0.2159 *

Mars 20429-02-08 20:38 G 9182638.23 9182638.36 9182638.49 0.1930 0.0323

Mars 20431-11-05 06:43 G 9183637.72 9183637.78 9183637.84 0.1615 0.1442

Jupiter 20433-03-11 04:48 G 9184129.54 9184129.70 9184129.85 0.0529 0.0051

Mars 20433-10-11 00:28 G 9184343.47 9184343.52 9184343.56 0.1601 0.1511

Saturn 20436-04-27 08:52 G 9185272.75 9185272.87 9185273.00 0.0285 0.0179

Saturn 20436-07-25 02:24 G 9185361.45 9185361.60 9185361.76 0.0285 0.0055

Saturn 20436-10-21 19:26 G 9185450.16 9185450.31 9185450.47 0.0285 0.0067

Saturn 20437-01-18 12:00 G 9185538.89 9185539.00 9185539.12 0.0284 0.0185

Mars 20438-07-02 00:28 G 9186068.44 9186068.52 9186068.59 0.1924 0.1588

Jupiter 20438-07-30 01:40 G 9186096.48 9186096.57 9186096.67 0.0501 0.0375

Jupiter 20438-10-27 12:14 G 9186185.88 9186186.01 9186186.15 0.0498 0.0196

Venus 20441-11-14 08:52 G 9187299.78 9187299.87 9187299.95 0.3691 0.2597

Mars 20443-03-03 07:55 G 9187773.70 9187773.83 9187773.95 0.1604 0.0788

Jupiter 20444-12-28 04:33 G 9188439.54 9188439.69 9188439.84 0.0528 0.0139

Moon 20446-06-09 09:07 G 9188967.76 9188967.88 9188968.01 0.2647 0.0935

Earth 20446-06-09 10:04 G 9188967.80 9188967.92 9188968.05 0.2650 0.0768 *

Venus 20447-05-31 04:48 G 9189323.59 9189323.70 9189323.82 0.3691 0.0879

Moon 20448-12-07 13:55 G 9189879.98 9189880.08 9189880.19 0.2684 0.1299

Earth	20448-12-07 14:52 G	9189880.01	9189880.12	9189880.23	0.2681	0.1130	*
Venus	20448-12-10 23:02 G	9189883.38	9189883.46	9189883.54	0.3680	0.2683	
Jupiter	20450-08-15 15:21 G	9190495.99	9190496.14	9190496.28	0.0499	0.0055	
Saturn	20451-05-05 21:50 G	9190759.31	9190759.41	9190759.52	0.0274	0.0198	
Saturn	20451-08-02 11:31 G	9190847.84	9190847.98	9190848.12	0.0274	0.0099	
Saturn	20451-10-30 01:26 G	9190936.41	9190936.56	9190936.71	0.0274	0.0005	
Saturn	20452-01-26 15:36 G	9191025.02	9191025.15	9191025.30	0.0275	0.0108	
Saturn	20452-04-24 06:14 G	9191113.67	9191113.76	9191113.86	0.0275	0.0214	
Mars	20452-07-23 15:21 G	9191204.00	9191204.14	9191204.28	0.1607	0.0077	
Venus	20452-12-14 00:28 G	9191347.41	9191347.52	9191347.63	0.3692	0.0769	
Venus	20454-06-26 20:24 G	9191907.23	9191907.35	9191907.47	0.3679	0.0861	
Uranus	20455-09-06 17:16 G	9192344.17	9192344.22	9192344.29	0.0146	0.0132	
Uranus	20455-12-03 22:19 G	9192432.34	9192432.43	9192432.55	0.0146	0.0109	
Uranus	20456-03-01 03:50 G	9192520.54	9192520.66	9192520.79	0.0146	0.0084	
Uranus	20456-05-28 09:07 G	9192608.74	9192608.88	9192609.02	0.0146	0.0061	
Uranus	20456-08-24 14:24 G	9192696.95	9192697.10	9192697.26	0.0146	0.0037	
Jupiter	20456-10-16 03:50 G	9192749.54	9192749.66	9192749.78	0.0528	0.0338	
Uranus	20456-11-20 19:55 G	9192785.17	9192785.33	9192785.48	0.0146	0.0012	
Jupiter	20457-01-14 02:09 G	9192839.49	9192839.59	9192839.68	0.0531	0.0414	
Uranus	20457-02-17 01:12 G	9192873.40	9192873.55	9192873.71	0.0146	0.0013	
Uranus	20457-05-16 06:43 G	9192961.63	9192961.78	9192961.93	0.0146	0.0037	
Uranus	20457-08-12 12:14 G	9193049.87	9193050.01	9193050.16	0.0146	0.0062	
Uranus	20457-11-08 17:45 G	9193138.12	9193138.24	9193138.37	0.0146	0.0087	
Uranus	20458-02-04 23:31 G	9193226.38	9193226.48	9193226.58	0.0146	0.0112	
Uranus	20458-05-04 04:48 G	9193314.66	9193314.70	9193314.76	0.0145	0.0138	
Venus	20458-06-29 19:55 G	9193371.24	9193371.33	9193371.42	0.3692	0.2355	
Mars	20459-03-20 17:02 G	9193635.10	9193635.21	9193635.32	0.1934	0.1071	
Moon	20459-06-12 08:09 G	9193718.72	9193718.84	9193718.96	0.2653	0.1120	
Earth	20459-06-12 09:07 G	9193718.77	9193718.88	9193719.00	0.2650	0.1187	*
Venus	20460-01-10 18:00 G	9193931.13	9193931.25	9193931.37	0.3678	0.1062	

Moon 20461-12-10 11:31 G 9194630.86 9194630.98 9194631.10 0.2687 0.0633

Earth 20461-12-10 12:00 G 9194630.87 9194631.00 9194631.12 0.2681 0.0633 *

Mars 20461-12-13 23:02 G 9194634.33 9194634.46 9194634.59 0.1611 0.0641

Jupiter 20462-06-03 18:43 G 9194806.13 9194806.28 9194806.42 0.0499 0.0082

Venus 20465-07-26 16:19 G 9195955.11 9195955.18 9195955.25 0.3678 0.3070

Saturn 20465-09-14 08:52 G 9196004.77 9196004.87 9196004.98 0.0285 0.0219

Saturn 20465-12-12 02:38 G 9196093.46 9196093.61 9196093.76 0.0285 0.0093

Saturn 20466-03-10 19:40 G 9196182.17 9196182.32 9196182.48 0.0284 0.0030

Saturn 20466-06-07 12:28 G 9196270.89 9196271.02 9196271.15 0.0284 0.0148

Saturn 20466-09-04 04:33 G 9196359.65 9196359.69 9196359.76 0.0283 0.0264

Jupiter 20468-08-04 03:50 G 9197059.65 9197059.66 9197059.67 0.0527 0.0524

Mars 20468-08-09 21:07 G 9197065.25 9197065.38 9197065.51 0.1930 0.0171

Jupiter 20468-11-02 02:38 G 9197149.47 9197149.61 9197149.75 0.0531 0.0235

Mars 20471-05-06 06:57 G 9198064.71 9198064.79 9198064.86 0.1614 0.1342

Jupiter 20474-03-22 21:50 G 9199116.28 9199116.41 9199116.54 0.0500 0.0220

Jupiter 20474-06-20 08:38 G 9199205.76 9199205.86 9199205.96 0.0497 0.0354

Moon 20474-12-13 09:21 G 9199381.83 9199381.89 9199381.94 0.2688 0.2393

Earth 20474-12-13 09:07 G 9199381.83 9199381.88 9199381.93 0.2681 0.2439 *

Pluto 20476-11-04 09:50 G 9200073.86 9200073.91 9200073.97 0.0070 0.0063

Pluto 20477-01-31 10:19 G 9200161.85 9200161.93 9200162.02 0.0070 0.0054

Pluto 20477-04-29 10:48 G 9200249.86 9200249.95 9200250.07 0.0070 0.0045

Pluto 20477-07-26 11:45 G 9200337.88 9200337.99 9200338.10 0.0071 0.0035

Pluto 20477-10-22 12:14 G 9200425.89 9200426.01 9200426.14 0.0071 0.0026

Mars 20477-12-31 00:28 G 9200495.44 9200495.52 9200495.60 0.1924 0.1468

Pluto 20478-01-18 12:57 G 9200513.91 9200514.04 9200514.17 0.0071 0.0016

Pluto 20478-04-16 13:40 G 9200601.94 9200602.07 9200602.20 0.0071 0.0007

Pluto 20478-07-13 14:09 G 9200689.96 9200690.09 9200690.23 0.0071 0.0004

Pluto 20478-10-09 14:52 G 9200777.99 9200778.12 9200778.25 0.0071 0.0013

Pluto 20479-01-05 15:36 G 9200866.02 9200866.15 9200866.27 0.0071 0.0023

Pluto 20479-04-03 16:04 G 9200954.06 9200954.17 9200954.29 0.0071 0.0032

Moon 20479-06-07 15:36 G 9201019.10 9201019.15 9201019.21 0.2645 0.2407

Earth 20479-06-07 16:19 G 9201019.12 9201019.18 9201019.24 0.2650 0.2369 *

Pluto 20479-06-30 16:33 G 9201042.10 9201042.19 9201042.31 0.0071 0.0043

Pluto 20479-09-26 17:16 G 9201130.14 9201130.22 9201130.32 0.0072 0.0052

Pluto 20479-12-23 17:45 G 9201218.19 9201218.24 9201218.32 0.0072 0.0063

Jupiter 20480-08-21 03:21 G 9201459.48 9201459.64 9201459.79 0.0530 0.0058

Saturn 20480-09-21 22:04 G 9201491.35 9201491.42 9201491.50 0.0274 0.0236

Saturn 20480-12-19 11:31 G 9201579.86 9201579.98 9201580.11 0.0274 0.0139

Saturn 20481-03-18 01:26 G 9201668.41 9201668.56 9201668.71 0.0275 0.0038

Saturn 20481-06-14 15:36 G 9201757.00 9201757.15 9201757.29 0.0275 0.0065

Neptune 20481-08-06 23:02 G 9201810.43 9201810.46 9201810.52 0.0089 0.0086

Saturn 20481-09-11 06:00 G 9201845.63 9201845.75 9201845.87 0.0275 0.0171

Neptune 20481-11-03 01:40 G 9201898.49 9201898.57 9201898.66 0.0089 0.0077

Moon 20481-12-05 22:33 G 9201931.41 9201931.44 9201931.47 0.2680 0.2571

Earth 20481-12-05 23:31 G 9201931.43 9201931.48 9201931.52 0.2682 0.2490 *

Neptune 20482-01-30 04:04 G 9201986.58 9201986.67 9201986.79 0.0089 0.0068

Neptune 20482-04-28 06:43 G 9202074.66 9202074.78 9202074.91 0.0089 0.0059

Neptune 20482-07-25 09:21 G 9202162.75 9202162.89 9202163.02 0.0089 0.0051

Mars 20482-09-01 08:09 G 9202200.72 9202200.84 9202200.95 0.1604 0.0895

Neptune 20482-10-21 11:31 G 9202250.84 9202250.98 9202251.13 0.0089 0.0042

Neptune 20483-01-17 14:09 G 9202338.94 9202339.09 9202339.24 0.0089 0.0033

Neptune 20483-04-15 16:19 G 9202427.03 9202427.18 9202427.35 0.0089 0.0026

Neptune 20483-07-12 18:57 G 9202515.13 9202515.29 9202515.45 0.0089 0.0016

Neptune 20483-10-08 21:21 G 9202603.23 9202603.39 9202603.55 0.0089 0.0008

Neptune 20484-01-04 23:45 G 9202691.33 9202691.49 9202691.65 0.0089 0.0000

Neptune 20484-04-02 02:09 G 9202779.43 9202779.59 9202779.75 0.0089 0.0009

Neptune 20484-06-29 04:19 G 9202867.53 9202867.68 9202867.85 0.0089 0.0018

Neptune 20484-09-25 06:43 G 9202955.63 9202955.78 9202955.94 0.0089 0.0026

Neptune 20484-12-22 08:52 G 9203043.73 9203043.87 9203044.03 0.0089 0.0035

Neptune 20485-03-20 11:16 G 9203131.84 9203131.97 9203132.12 0.0089 0.0042

Neptune 20485-06-16 13:40 G 9203219.94 9203220.07 9203220.21 0.0089 0.0050

Neptune 20485-09-12 16:04 G 9203308.05 9203308.17 9203308.29 0.0089 0.0059

Neptune 20485-12-09 18:14 G 9203396.16 9203396.26 9203396.37 0.0089 0.0067

Jupiter 20486-01-09 00:57 G 9203426.44 9203426.54 9203426.64 0.0501 0.0359

Neptune 20486-03-07 20:38 G 9203484.28 9203484.36 9203484.45 0.0089 0.0075

Jupiter 20486-04-08 11:31 G 9203515.85 9203515.98 9203516.11 0.0497 0.0211

Neptune 20486-06-03 22:33 G 9203572.40 9203572.44 9203572.51 0.0089 0.0083

Mars 20492-01-22 15:36 G 9205631.01 9205631.15 9205631.29 0.1607 0.0178

Jupiter 20492-06-09 03:36 G 9205769.49 9205769.65 9205769.80 0.0529 0.0126

Moon 20492-06-09 14:38 G 9205769.98 9205770.11 9205770.25 0.2648 0.0482

Earth 20492-06-09 15:50 G 9205770.03 9205770.16 9205770.29 0.2650 0.0357 *

Moon 20494-12-08 19:12 G 9206682.18 9206682.30 9206682.42 0.2684 0.0875

Earth 20494-12-08 20:09 G 9206682.22 9206682.34 9206682.46 0.2681 0.0777 *

Saturn 20495-02-01 08:09 G 9206736.79 9206736.84 9206736.91 0.0286 0.0264

Saturn 20495-05-01 02:09 G 9206825.45 9206825.59 9206825.73 0.0285 0.0136

Saturn 20495-07-28 19:40 G 9206914.16 9206914.32 9206914.48 0.0285 0.0013

Saturn 20495-10-25 12:28 G 9207002.88 9207003.02 9207003.17 0.0285 0.0109

Saturn 20496-01-22 05:02 G 9207091.62 9207091.71 9207091.80 0.0284 0.0225

Uranus 20497-07-01 18:00 G 9207618.25 9207618.25 9207618.28 0.0133 0.0132

Uranus 20497-09-27 23:02 G 9207706.38 9207706.46 9207706.55 0.0133 0.0112

Uranus 20497-12-25 03:36 G 9207794.54 9207794.65 9207794.77 0.0133 0.0093

Jupiter 20498-01-25 13:55 G 9207825.93 9207826.08 9207826.22 0.0499 0.0061

Uranus 20498-03-23 08:09 G 9207882.72 9207882.84 9207882.98 0.0133 0.0074

Uranus 20498-06-19 12:43 G 9207970.89 9207971.03 9207971.18 0.0133 0.0055

Venus 20498-06-21 07:26 G 9207972.72 9207972.81 9207972.91 0.3691 0.2044

Uranus 20498-09-15 17:16 G 9208059.07 9208059.22 9208059.38 0.0133 0.0036

Mars 20498-09-18 17:31 G 9208062.13 9208062.23 9208062.33 0.1935 0.1216

Uranus 20498-12-12 21:50 G 9208147.26 9208147.41 9208147.57 0.0133 0.0017

Uranus 20499-03-11 02:24 G 9208235.44 9208235.60 9208235.76 0.0133 0.0002

Uranus 20499-06-07 06:43 G 9208323.63 9208323.78 9208323.94 0.0133 0.0021

Uranus 20499-09-03 11:02 G 9208411.82 9208411.96 9208412.12 0.0133 0.0039

Uranus 20499-11-30 15:36 G 9208500.01 9208500.15 9208500.29 0.0133 0.0057

Uranus 20500-02-26 19:40 G 9208588.20 9208588.32 9208588.46 0.0133 0.0076

Uranus 20500-05-26 00:00 G 9208676.40 9208676.50 9208676.62 0.0133 0.0094

Uranus 20500-08-22 04:04 G 9208764.60 9208764.67 9208764.77 0.0133 0.0112

Uranus 20500-11-18 08:38 G 9208852.83 9208852.86 9208852.89 0.0133 0.0129

Mars 20501-06-14 23:16 G 9209061.34 9209061.47 9209061.60 0.1611 0.0532

Venus 20504-01-06 03:21 G 9209996.53 9209996.64 9209996.76 0.3691 0.0357

Jupiter 20504-03-29 03:07 G 9210079.51 9210079.63 9210079.76 0.0527 0.0318

Jupiter 20504-06-27 01:12 G 9210169.47 9210169.55 9210169.64 0.0531 0.0433

Moon 20505-06-13 13:40 G 9210520.96 9210521.07 9210521.19 0.2654 0.1423

Earth 20505-06-13 14:38 G 9210521.01 9210521.11 9210521.22 0.2650 0.1591 *

Venus 20505-07-18 22:04 G 9210556.32 9210556.42 9210556.52 0.3679 0.2109

Moon 20507-12-12 16:48 G 9211433.09 9211433.20 9211433.32 0.2688 0.0913

Earth 20507-12-12 17:02 G 9211433.10 9211433.21 9211433.33 0.2681 0.0998 *

Mars 20508-02-09 21:21 G 9211492.26 9211492.39 9211492.52 0.1930 0.0049

Venus 20509-07-21 23:02 G 9212020.35 9212020.46 9212020.57 0.3692 0.1290

Jupiter 20509-11-14 16:48 G 9212136.06 9212136.20 9212136.34 0.0500 0.0082

Saturn 20510-02-10 01:12 G 9212223.51 9212223.55 9212223.61 0.0274 0.0255

Saturn 20510-05-09 14:38 G 9212311.99 9212312.11 9212312.23 0.0274 0.0158

Saturn 20510-08-06 04:19 G 9212400.54 9212400.68 9212400.83 0.0274 0.0059

Saturn 20510-11-02 18:28 G 9212489.12 9212489.27 9212489.42 0.0274 0.0044

Mars 20510-11-05 06:57 G 9212491.71 9212491.79 9212491.88 0.1614 0.1239

Saturn 20511-01-30 08:38 G 9212577.74 9212577.86 9212578.00 0.0275 0.0150

Venus 20511-02-01 19:26 G 9212580.19 9212580.31 9212580.44 0.3679 0.0267

Saturn 20511-04-28 23:16 G 9212666.43 9212666.47 9212666.53 0.0275 0.0258

Venus 20515-02-04 18:14 G 9214044.19 9214044.26 9214044.33 0.3693 0.2857

Jupiter 20516-01-16 02:09 G 9214389.57 9214389.59 9214389.61 0.0527 0.0520

Jupiter 20516-04-15 00:57 G 9214479.40 9214479.54 9214479.68 0.0530 0.0238

Venus 20516-08-17 17:16 G 9214604.11 9214604.22 9214604.34 0.3678 0.1693

Mars 20517-07-02 00:43 G 9214922.44 9214922.53 9214922.63 0.1925 0.1325

Jupiter 20521-09-02 20:09 G 9216446.21 9216446.34 9216446.47 0.0500 0.0218

Jupiter 20521-12-01 06:57 G 9216535.69 9216535.79 9216535.90 0.0497 0.0358

Mars 20522-03-03 08:24 G 9216627.74 9216627.85 9216627.96 0.1604 0.1002

Saturn 20524-09-18 03:07 G 9217557.50 9217557.63 9217557.75 0.0285 0.0170

Saturn 20524-12-15 20:24 G 9217646.20 9217646.35 9217646.51 0.0285 0.0046

Saturn 20525-03-14 13:26 G 9217734.91 9217735.06 9217735.22 0.0284 0.0076

Moon 20525-06-08 21:21 G 9217821.31 9217821.39 9217821.47 0.2645 0.2111

Earth 20525-06-08 22:04 G 9217821.33 9217821.42 9217821.51 0.2650 0.1947 *

Saturn 20525-06-11 06:14 G 9217823.64 9217823.76 9217823.87 0.0284 0.0193

Moon 20527-12-08 03:36 G 9218733.60 9218733.65 9218733.71 0.2681 0.2311

Earth 20527-12-08 04:33 G 9218733.62 9218733.69 9218733.77 0.2682 0.2132 *

Jupiter 20528-02-02 01:12 G 9218789.40 9218789.55 9218789.71 0.0530 0.0056

Mars 20531-07-24 15:50 G 9220058.02 9220058.16 9220058.30 0.1607 0.0282

Jupiter 20533-06-21 23:31 G 9220756.38 9220756.48 9220756.58 0.0501 0.0355

Jupiter 20533-09-19 10:04 G 9220845.79 9220845.92 9220846.05 0.0498 0.0216

Mars 20538-03-20 17:31 G 9222489.14 9222489.23 9222489.33 0.1934 0.1338

Moon 20538-06-11 20:09 G 9222572.21 9222572.34 9222572.48 0.2649 0.0103

Earth 20538-06-11 21:21 G 9222572.26 9222572.39 9222572.52 0.2650 0.0055 *

Saturn 20539-09-26 15:07 G 9223044.03 9223044.13 9223044.24 0.0274 0.0196

Uranus 20539-09-28 00:43 G 9223045.45 9223045.53 9223045.60 0.0145 0.0126

Jupiter 20539-11-21 01:40 G 9223099.42 9223099.57 9223099.72 0.0529 0.0124

Saturn 20539-12-24 04:48 G 9223132.56 9223132.70 9223132.84 0.0274 0.0097

Uranus 20539-12-25 05:45 G 9223133.64 9223133.74 9223133.85 0.0145 0.0103

Saturn 20540-03-21 18:43 G 9223221.13 9223221.28 9223221.43 0.0275 0.0007

Uranus 20540-03-22 11:02 G 9223221.83 9223221.96 9223222.09 0.0145 0.0079

Saturn 20540-06-18 08:52 G 9223309.73 9223309.87 9223310.01 0.0275 0.0109

Uranus 20540-06-18 16:19 G 9223310.04 9223310.18 9223310.32 0.0145 0.0055

Uranus 20540-09-14 21:36 G 9223398.25 9223398.40 9223398.55 0.0145 0.0031

Saturn 20540-09-14 23:16 G 9223398.38 9223398.47 9223398.57 0.0275 0.0215 *

Moon 20540-12-10 00:28 G 9223484.40 9223484.52 9223484.64 0.2684 0.0535

Earth 20540-12-10 01:26 G 9223484.44 9223484.56 9223484.68 0.2681 0.0420 *

Uranus 20540-12-12 03:07 G 9223486.47 9223486.63 9223486.78 0.0145 0.0008

Mars 20540-12-13 23:31 G 9223488.34 9223488.48 9223488.61 0.1611 0.0432

Uranus 20541-03-10 08:24 G 9223574.70 9223574.85 9223575.01 0.0145 0.0018

Uranus 20541-06-06 13:55 G 9223662.93 9223663.08 9223663.23 0.0145 0.0042

Uranus 20541-09-02 19:12 G 9223751.17 9223751.30 9223751.45 0.0145 0.0068

Uranus 20541-11-30 00:43 G 9223839.42 9223839.53 9223839.66 0.0145 0.0093

Uranus 20542-02-26 06:28 G 9223927.68 9223927.77 9223927.87 0.0145 0.0117

Uranus 20542-05-25 12:14 G 9224015.98 9224016.01 9224016.04 0.0145 0.0143

Jupiter 20545-04-10 02:38 G 9225066.59 9225066.61 9225066.64 0.0501 0.0493

Jupiter 20545-07-08 12:57 G 9225155.90 9225156.04 9225156.18 0.0498 0.0074

Mars 20547-08-10 21:36 G 9225919.26 9225919.40 9225919.53 0.1930 0.0108

Venus 20549-07-13 10:04 G 9226621.86 9226621.92 9226621.97 0.3691 0.3243

Mars 20550-05-06 07:26 G 9226918.71 9226918.81 9226918.90 0.1614 0.1133

Moon 20551-06-14 19:12 G 9227323.21 9227323.30 9227323.40 0.2654 0.1895

Earth 20551-06-14 20:09 G 9227323.26 9227323.34 9227323.43 0.2650 0.1982 *

Jupiter 20551-09-09 01:55 G 9227409.45 9227409.58 9227409.71 0.0528 0.0308

Jupiter 20551-12-08 00:00 G 9227499.42 9227499.50 9227499.59 0.0531 0.0443

Moon 20553-12-12 22:04 G 9228235.32 9228235.42 9228235.53 0.2688 0.1364

Earth 20553-12-12 22:19 G 9228235.33 9228235.43 9228235.54 0.2681 0.1357 *

Saturn 20554-02-05 02:09 G 9228289.49 9228289.59 9228289.70 0.0285 0.0216

Saturn 20554-05-04 19:55 G 9228378.18 9228378.33 9228378.48 0.0285 0.0090

Saturn 20554-08-01 13:12 G 9228466.89 9228467.05 9228467.21 0.0285 0.0033

Saturn 20554-10-29 06:00 G 9228555.62 9228555.75 9228555.88 0.0285 0.0153

Saturn 20555-01-25 22:19 G 9228644.39 9228644.43 9228644.48 0.0284 0.0268

Venus 20555-01-27 06:14 G 9228645.65 9228645.76 9228645.87 0.3691 0.1488

Venus 20556-08-09 00:00 G 9229205.45 9229205.50 9229205.55 0.3680 0.3318

Mars 20556-12-31 01:12 G 9229349.45 9229349.55 9229349.65 0.1925 0.1180

Jupiter 20557-04-26 15:07 G 9229465.99 9229466.13 9229466.28 0.0499 0.0080

Venus 20560-08-12 01:55 G 9230669.47 9230669.58 9230669.70 0.3692 0.0220

Mars 20561-09-01 08:38 G 9231054.76 9231054.86 9231054.96 0.1604 0.1116

Venus 20562-02-22 21:07 G 9231229.27 9231229.38 9231229.49 0.3679 0.1529

Pluto 20562-09-20 16:04 G 9231439.07 9231439.17 9231439.29 0.0074 0.0060

Neptune 20562-11-09 07:26 G 9231488.76 9231488.81 9231488.87 0.0088 0.0081

Pluto 20562-12-17 18:43 G 9231527.13 9231527.28 9231527.44 0.0073 0.0044

Neptune 20563-02-05 09:07 G 9231576.81 9231576.88 9231576.97 0.0088 0.0074

Pluto 20563-03-15 20:52 G 9231615.21 9231615.37 9231615.57 0.0073 0.0029

Neptune 20563-05-04 11:16 G 9231664.87 9231664.97 9231665.07 0.0088 0.0066

Pluto 20563-06-11 23:45 G 9231703.30 9231703.49 9231703.69 0.0073 0.0012

Jupiter 20563-06-28 01:26 G 9231719.51 9231719.56 9231719.61 0.0527 0.0501

Neptune 20563-07-31 12:57 G 9231752.94 9231753.04 9231753.16 0.0088 0.0059

Pluto 20563-09-08 02:09 G 9231791.40 9231791.59 9231791.79 0.0073 0.0004

Jupiter 20563-09-26 00:00 G 9231809.37 9231809.50 9231809.64 0.0530 0.0257

Neptune 20563-10-27 14:38 G 9231841.00 9231841.11 9231841.24 0.0088 0.0052

Pluto 20563-12-05 04:33 G 9231879.51 9231879.69 9231879.89 0.0073 0.0019

Neptune 20564-01-23 16:48 G 9231929.07 9231929.20 9231929.33 0.0088 0.0045

Pluto 20564-03-02 06:43 G 9231967.62 9231967.78 9231967.97 0.0073 0.0035

Neptune 20564-04-20 18:28 G 9232017.14 9232017.27 9232017.41 0.0088 0.0037

Pluto 20564-05-29 09:21 G 9232055.76 9232055.89 9232056.04 0.0073 0.0050

Neptune 20564-07-17 20:24 G 9232105.21 9232105.35 9232105.50 0.0088 0.0030

Pluto 20564-08-25 11:45 G 9232143.91 9232143.99 9232144.08 0.0073 0.0065

Neptune 20564-10-13 22:19 G 9232193.29 9232193.43 9232193.58 0.0088 0.0022

Neptune 20565-01-10 00:14 G 9232281.36 9232281.51 9232281.66 0.0088 0.0015

Neptune 20565-04-08 02:09 G 9232369.44 9232369.59 9232369.74 0.0088 0.0007

Neptune 20565-07-05 04:04 G 9232457.52 9232457.67 9232457.82 0.0088 0.0000

Neptune 20565-10-01 06:00 G 9232545.60 9232545.75 9232545.90 0.0088 0.0008

Neptune 20565-12-28 07:55 G 9232633.68 9232633.83 9232633.98 0.0088 0.0015

Venus 20566-02-25 21:36 G 9232693.29 9232693.40 9232693.50 0.3692 0.1806

Neptune 20566-03-26 09:50 G 9232721.76 9232721.91 9232722.06 0.0088 0.0023

Neptune 20566-06-22 11:31 G 9232809.85 9232809.98 9232810.13 0.0088 0.0031

Neptune 20566-09-18 13:40 G 9232897.93 9232898.07 9232898.21 0.0088 0.0038

Neptune 20566-12-15 15:21 G 9232986.02 9232986.14 9232986.28 0.0088 0.0046

Neptune 20567-03-13 17:16 G 9233074.11 9233074.22 9233074.36 0.0088 0.0054

Neptune 20567-06-09 19:26 G 9233162.21 9233162.31 9233162.43 0.0088 0.0061

Neptune 20567-09-05 21:21 G 9233250.31 9233250.39 9233250.50 0.0088 0.0069

Venus 20567-09-08 18:28 G 9233253.15 9233253.27 9233253.40 0.3679 0.0362

Neptune 20567-12-02 23:16 G 9233338.41 9233338.47 9233338.56 0.0088 0.0077

Neptune 20568-02-29 01:12 G 9233426.53 9233426.55 9233426.61 0.0088 0.0085

Jupiter 20569-02-12 18:14 G 9233776.13 9233776.26 9233776.39 0.0500 0.0221

Saturn 20569-02-12 18:28 G 9233776.18 9233776.27 9233776.36 0.0274 0.0213 *

Saturn 20569-05-12 07:55 G 9233864.70 9233864.83 9233864.97 0.0274 0.0115

Jupiter 20569-05-13 05:02 G 9233865.61 9233865.71 9233865.82 0.0497 0.0355

Saturn 20569-08-08 21:50 G 9233953.26 9233953.41 9233953.56 0.0274 0.0014

Saturn 20569-11-05 12:00 G 9234041.86 9234042.00 9234042.14 0.0275 0.0089

Saturn 20570-02-02 02:24 G 9234130.50 9234130.60 9234130.71 0.0275 0.0195

Mars 20571-01-22 16:04 G 9234485.04 9234485.17 9234485.31 0.1607 0.0392

Moon 20571-06-10 02:52 G 9234623.51 9234623.62 9234623.72 0.2645 0.1568

Earth 20571-06-10 03:36 G 9234623.54 9234623.65 9234623.76 0.2650 0.1537 *

Venus 20571-09-11 16:48 G 9234717.15 9234717.20 9234717.24 0.3693 0.3352

Venus 20573-03-24 16:33 G 9235277.09 9235277.19 9235277.29 0.3678 0.2329

Moon 20573-12-08 08:52 G 9235535.78 9235535.87 9235535.96 0.2681 0.1847

Earth 20573-12-08 09:50 G 9235535.82 9235535.91 9235536.00 0.2681 0.1781 *

Jupiter 20575-07-14 23:31 G 9236119.32 9236119.48 9236119.63 0.0529 0.0059

Mars 20577-09-18 18:00 G 9236916.16 9236916.25 9236916.33 0.1935 0.1475

Mars 20580-06-13 23:45 G 9237915.35 9237915.49 9237915.63 0.1610 0.0327

Jupiter 20580-12-01 21:50 G 9238086.31 9238086.41 9238086.51 0.0501 0.0355

Jupiter 20581-03-01 08:09 G 9238175.71 9238175.84 9238175.98 0.0498 0.0217

Uranus 20581-07-23 01:55 G 9238319.53 9238319.58 9238319.63 0.0133 0.0125

Uranus 20581-10-19 06:28 G 9238407.68 9238407.77 9238407.87 0.0133 0.0106

Uranus 20582-01-15 11:02 G 9238495.85 9238495.96 9238496.09 0.0133 0.0087

Uranus 20582-04-13 15:50 G 9238584.03 9238584.16 9238584.30 0.0133 0.0067

Uranus 20582-07-10 20:24 G 9238672.21 9238672.35 9238672.50 0.0133 0.0048

Uranus 20582-10-07 00:57 G 9238760.39 9238760.54 9238760.70 0.0133 0.0029

Uranus 20583-01-03 05:31 G 9238848.57 9238848.73 9238848.89 0.0133 0.0010

Uranus 20583-04-01 10:04 G 9238936.76 9238936.92 9238937.07 0.0133 0.0009

Saturn 20583-06-25 03:21 G 9239021.57 9239021.64 9239021.73 0.0285 0.0247

Uranus 20583-06-28 14:24 G 9239024.95 9239025.10 9239025.25 0.0133 0.0027

Saturn 20583-09-21 21:21 G 9239110.24 9239110.39 9239110.54 0.0285 0.0120

Uranus 20583-09-24 18:43 G 9239113.14 9239113.28 9239113.43 0.0133 0.0046

Saturn 20583-12-19 14:38 G 9239198.95 9239199.11 9239199.27 0.0285 0.0004

Uranus 20583-12-21 23:02 G 9239201.33 9239201.46 9239201.60 0.0133 0.0064

Saturn 20584-03-17 07:26 G 9239287.67 9239287.81 9239287.96 0.0284 0.0124

Uranus 20584-03-19 03:21 G 9239289.53 9239289.64 9239289.77 0.0133 0.0082

Moon 20584-06-12 01:55 G 9239374.44 9239374.58 9239374.71 0.2651 0.0275

Earth 20584-06-12 02:52 G 9239374.49 9239374.62 9239374.75 0.2650 0.0458 *

Saturn 20584-06-14 00:00 G 9239376.42 9239376.50 9239376.58 0.0284 0.0240

Uranus 20584-06-15 07:40 G 9239377.73 9239377.82 9239377.93 0.0133 0.0100

Uranus 20584-09-11 12:00 G 9239465.94 9239466.00 9239466.07 0.0133 0.0118

Moon 20586-12-11 06:00 G 9240286.63 9240286.75 9240286.87 0.2686 0.0171

Earth 20586-12-11 06:43 G 9240286.65 9240286.78 9240286.90 0.2681 0.0067 *

Mars 20587-02-08 21:50 G 9240346.28 9240346.41 9240346.54 0.1930 0.0229

Jupiter 20587-05-02 23:31 G 9240429.32 9240429.48 9240429.63 0.0529 0.0130

Mars 20589-11-04 07:26 G 9241345.71 9241345.81 9241345.92 0.1614 0.1033

Jupiter 20592-09-20 00:57 G 9242396.52 9242396.54 9242396.57 0.0502 0.0491

Jupiter 20592-12-18 11:16 G 9242485.83 9242485.97 9242486.11 0.0498 0.0076

Mars 20596-07-01 01:26 G 9243776.45 9243776.56 9243776.67 0.1925 0.1060

Moon 20597-06-15 00:57 G 9244125.47 9244125.54 9244125.61 0.2654 0.2258

Earth 20597-06-15 01:55 G 9244125.52 9244125.58 9244125.63 0.2650 0.2376 *

Saturn 20598-07-02 19:12 G 9244508.25 9244508.30 9244508.36 0.0274 0.0248

Saturn 20598-09-29 08:38 G 9244596.74 9244596.86 9244596.99 0.0274 0.0151

Saturn 20598-12-26 22:19 G 9244685.29 9244685.43 9244685.58 0.0274 0.0052

Jupiter 20599-02-18 23:45 G 9244739.36 9244739.49 9244739.62 0.0528 0.0312

Saturn 20599-03-25 12:28 G 9244773.87 9244774.02 9244774.16 0.0275 0.0052

Jupiter 20599-05-19 22:04 G 9244829.34 9244829.42 9244829.50 0.0531 0.0441

Saturn 20599-06-22 02:38 G 9244862.49 9244862.61 9244862.74 0.0275 0.0156

Saturn 20599-09-18 17:16 G 9244951.18 9244951.22 9244951.27 0.0275 0.0264

Moon 20599-12-14 03:36 G 9245037.55 9245037.65 9245037.74 0.2688 0.1698

Earth 20599-12-14 03:50 G 9245037.56 9245037.66 9245037.75 0.2681 0.1732 *

Mars 20601-03-03 08:52 G 9245481.78 9245481.87 9245481.96 0.1604 0.1219

Jupiter 20604-10-07 14:24 G 9246795.95 9246796.10 9246796.24 0.0499 0.0066

Venus 20606-02-18 08:52 G 9247294.79 9247294.87 9247294.95 0.3691 0.2682

Mars 20610-07-24 16:19 G 9248912.05 9248912.18 9248912.32 0.1607 0.0498

Jupiter 20610-12-08 23:45 G 9249049.44 9249049.49 9249049.55 0.0527 0.0495

Jupiter 20611-03-08 22:33 G 9249139.31 9249139.44 9249139.58 0.0530 0.0264

Venus 20611-09-04 04:48 G 9249318.59 9249318.70 9249318.82 0.3691 0.0946

Saturn 20613-02-08 20:38 G 9249842.23 9249842.36 9249842.49 0.0285 0.0165

Venus 20613-03-16 22:48 G 9249878.37 9249878.45 9249878.53 0.3680 0.2757

Saturn 20613-05-08 14:09 G 9249930.94 9249931.09 9249931.25 0.0285 0.0040

Saturn 20613-08-05 07:12 G 9250019.65 9250019.80 9250019.96 0.0285 0.0083

Saturn 20613-11-02 00:00 G 9250108.39 9250108.50 9250108.61 0.0284 0.0201

Jupiter 20616-07-26 16:33 G 9251106.07 9251106.19 9251106.32 0.0500 0.0219

Jupiter 20616-10-24 03:21 G 9251195.54 9251195.64 9251195.74 0.0497 0.0357

Venus 20617-03-20 00:28 G 9251342.41 9251342.52 9251342.64 0.3692 0.0710

Mars 20617-03-20 18:14 G 9251343.19 9251343.26 9251343.33 0.1935 0.1612

Moon 20617-06-11 08:24 G 9251425.73 9251425.85 9251425.97 0.2646 0.1304

Earth 20617-06-11 09:21 G 9251425.77 9251425.89 9251426.01 0.2650 0.1115 *

Venus 20618-09-30 19:55 G 9251902.21 9251902.33 9251902.45 0.3679 0.0960

Moon 20619-12-10 14:09 G 9252337.99 9252338.09 9252338.19 0.2681 0.1622

Earth 20619-12-10 15:07 G 9252338.02 9252338.13 9252338.23 0.2681 0.1429 *

Mars 20619-12-15 00:00 G 9252342.36 9252342.50 9252342.64 0.1610 0.0217

Venus 20622-10-03 19:55 G 9253366.24 9253366.33 9253366.42 0.3693 0.2313

Jupiter 20622-12-25 22:33 G 9253449.29 9253449.44 9253449.60 0.0529 0.0074

Uranus 20623-07-23 02:52 G 9253658.60 9253658.62 9253658.66 0.0145 0.0142

Uranus 20623-10-19 07:55 G 9253746.76 9253746.83 9253746.93 0.0145 0.0120

Uranus 20624-01-15 13:12 G 9253834.94 9253835.05 9253835.17 0.0145 0.0096

Uranus 20624-04-12 18:28 G 9253923.14 9253923.27 9253923.41 0.0145 0.0072

Venus 20624-04-15 17:45 G 9253926.12 9253926.24 9253926.36 0.3679 0.0964

Uranus 20624-07-09 23:45 G 9254011.35 9254011.49 9254011.64 0.0145 0.0048

Uranus 20624-10-06 05:02 G 9254099.56 9254099.71 9254099.87 0.0145 0.0025

Uranus 20625-01-02 10:33 G 9254187.78 9254187.94 9254188.10 0.0145 0.0001

Uranus 20625-03-31 15:50 G 9254276.01 9254276.16 9254276.32 0.0145 0.0025

Uranus 20625-06-27 21:21 G 9254364.25 9254364.39 9254364.54 0.0145 0.0050

Uranus 20625-09-24 02:52 G 9254452.49 9254452.62 9254452.76 0.0145 0.0074

Uranus 20625-12-21 08:24 G 9254540.74 9254540.85 9254540.97 0.0145 0.0099

Uranus 20626-03-19 13:55 G 9254629.01 9254629.08 9254629.17 0.0145 0.0125

Mars 20626-08-10 22:04 G 9254773.29 9254773.42 9254773.55 0.1930 0.0368

Saturn 20627-11-20 22:33 G 9255240.41 9255240.44 9255240.48 0.0274 0.0266

Saturn 20628-02-17 12:00 G 9255328.89 9255329.00 9255329.12 0.0274 0.0169

Jupiter 20628-05-14 19:40 G 9255416.22 9255416.32 9255416.42 0.0501 0.0360

Saturn 20628-05-16 01:40 G 9255417.42 9255417.57 9255417.71 0.0274 0.0070

Jupiter 20628-08-12 06:14 G 9255505.63 9255505.76 9255505.89 0.0498 0.0212

Saturn 20628-08-12 15:36 G 9255506.00 9255506.15 9255506.30 0.0274 0.0033

Saturn 20628-11-09 05:45 G 9255594.61 9255594.74 9255594.88 0.0275 0.0138

Saturn 20629-02-05 20:24 G 9255683.29 9255683.35 9255683.42 0.0275 0.0244

Mars 20629-05-06 07:40 G 9255772.71 9255772.82 9255772.94 0.1614 0.0928

Venus 20629-10-30 15:50 G 9255950.09 9255950.16 9255950.23 0.3678 0.2965

Moon 20630-06-14 07:12 G 9256176.68 9256176.80 9256176.93 0.2652 0.0781

Earth 20630-06-14 08:24 G 9256176.73 9256176.85 9256176.98 0.2650 0.0857 *

Moon 20632-12-12 11:16 G 9257088.85 9257088.97 9257089.09 0.2687 0.0294

Earth 20632-12-12 12:00 G 9257088.87 9257089.00 9257089.12 0.2681 0.0322 *

Jupiter 20634-10-13 21:36 G 9257759.24 9257759.40 9257759.55 0.0528 0.0130

Mars 20636-01-01 01:40 G 9258203.45 9258203.57 9258203.68 0.1925 0.0920

Jupiter 20640-03-02 23:16 G 9259726.45 9259726.47 9259726.49 0.0502 0.0494

Jupiter 20640-05-31 09:21 G 9259815.75 9259815.89 9259816.04 0.0499 0.0074

Mars 20640-09-01 09:07 G 9259908.80 9259908.88 9259908.96 0.1604 0.1329

Saturn 20642-06-28 22:33 G 9260574.32 9260574.44 9260574.56 0.0285 0.0192

Saturn 20642-09-25 16:04 G 9260663.02 9260663.17 9260663.33 0.0285 0.0066

Saturn 20642-12-23 09:21 G 9260751.73 9260751.89 9260752.04 0.0285 0.0056

Saturn 20643-03-22 01:55 G 9260840.46 9260840.58 9260840.71 0.0284 0.0175

Moon 20645-12-15 09:07 G 9261839.80 9261839.88 9261839.95 0.2688 0.2104

Earth 20645-12-15 08:52 G 9261839.80 9261839.87 9261839.95 0.2681 0.2105 *

Neptune 20646-05-05 21:36 G 9261981.35 9261981.40 9261981.46 0.0089 0.0084

Jupiter 20646-08-01 21:21 G 9262069.26 9262069.39 9262069.51 0.0528 0.0319

Neptune 20646-08-01 23:45 G 9262069.42 9262069.49 9262069.60 0.0089 0.0076 *

Neptune 20646-10-29 02:24 G 9262157.51 9262157.60 9262157.73 0.0089 0.0067

Jupiter 20646-10-30 19:40 G 9262159.23 9262159.32 9262159.41 0.0531 0.0433

Neptune 20647-01-25 05:02 G 9262245.59 9262245.71 9262245.85 0.0089 0.0058

Neptune 20647-04-23 07:26 G 9262333.68 9262333.81 9262333.96 0.0089 0.0049

Neptune 20647-07-20 10:04 G 9262421.78 9262421.92 9262422.07 0.0089 0.0040

Neptune 20647-10-16 12:43 G 9262509.87 9262510.03 9262510.18 0.0089 0.0032

Neptune 20648-01-12 14:52 G 9262597.97 9262598.12 9262598.29 0.0089 0.0023

Neptune 20648-04-09 17:31 G 9262686.07 9262686.23 9262686.39 0.0089 0.0015

Neptune 20648-07-06 19:55 G 9262774.17 9262774.33 9262774.49 0.0089 0.0006

Neptune 20648-10-02 22:19 G 9262862.27 9262862.43 9262862.59 0.0089 0.0002

Neptune 20648-12-30 00:43 G 9262950.37 9262950.53 9262950.69 0.0089 0.0011

Neptune 20649-03-28 02:52 G 9263038.47 9263038.62 9263038.79 0.0089 0.0020

Neptune 20649-06-24 05:31 G 9263126.57 9263126.73 9263126.88 0.0089 0.0028

Neptune 20649-09-20 07:40 G 9263214.68 9263214.82 9263214.97 0.0089 0.0036

Neptune 20649-12-17 09:50 G 9263302.78 9263302.91 9263303.06 0.0089 0.0045

Mars 20650-01-22 16:33 G 9263339.06 9263339.19 9263339.32 0.1607 0.0603

Neptune 20650-03-15 12:14 G 9263390.89 9263391.01 9263391.15 0.0089 0.0053

Neptune 20650-06-11 14:38 G 9263479.00 9263479.11 9263479.23 0.0089 0.0061

Neptune 20650-09-07 17:02 G 9263567.11 9263567.21 9263567.31 0.0089 0.0069

Neptune 20650-12-04 18:57 G 9263655.23 9263655.29 9263655.39 0.0089 0.0077

Neptune 20651-03-02 21:21 G 9263743.36 9263743.39 9263743.45 0.0089 0.0085

Jupiter 20652-03-19 12:28 G 9264125.88 9264126.02 9264126.16 0.0499 0.0066

Mars 20656-09-18 18:28 G 9265770.21 9265770.27 9265770.32 0.1935 0.1742

Saturn 20657-07-06 13:12 G 9266060.95 9266061.05 9266061.14 0.0274 0.0202

Saturn 20657-10-03 02:38 G 9266149.47 9266149.61 9266149.75 0.0274 0.0104

Saturn 20657-12-30 16:19 G 9266238.03 9266238.18 9266238.33 0.0274 0.0008

Saturn 20658-03-29 06:28 G 9266326.63 9266326.77 9266326.91 0.0275 0.0101

Jupiter 20658-05-20 21:21 G 9266379.35 9266379.39 9266379.43 0.0527 0.0504

Saturn 20658-06-25 20:52 G 9266415.28 9266415.37 9266415.48 0.0275 0.0207

Jupiter 20658-08-18 20:09 G 9266469.21 9266469.34 9266469.48 0.0530 0.0256

Mars 20659-06-15 00:14 G 9266769.37 9266769.51 9266769.65 0.1610 0.0115

Venus 20662-09-25 07:26 G 9267967.72 9267967.81 9267967.91 0.3691 0.2121

Moon 20663-06-12 13:55 G 9268227.95 9268228.08 9268228.21 0.2648 0.0757

Earth 20663-06-12 14:52 G 9268227.99 9268228.12 9268228.25 0.2650 0.0699 *

Jupiter 20664-01-06 15:36 G 9268436.02 9268436.15 9268436.28 0.0500 0.0207

Jupiter 20664-04-05 02:24 G 9268525.50 9268525.60 9268525.70 0.0497 0.0368

Uranus 20665-08-13 09:36 G 9269020.83 9269020.90 9269020.97 0.0133 0.0118

Uranus 20665-11-09 14:09 G 9269108.99 9269109.09 9269109.20 0.0133 0.0099

Moon 20665-12-10 19:26 G 9269140.20 9269140.31 9269140.42 0.2683 0.1126

Earth 20665-12-10 20:09 G 9269140.23 9269140.34 9269140.46 0.2681 0.1080 *

Uranus 20666-02-05 18:43 G 9269197.16 9269197.28 9269197.41 0.0133 0.0080

Mars 20666-02-08 22:04 G 9269200.30 9269200.42 9269200.55 0.1930 0.0487

Uranus 20666-05-04 23:31 G 9269285.34 9269285.48 9269285.62 0.0133 0.0060

Uranus 20666-08-01 04:04 G 9269373.52 9269373.67 9269373.82 0.0133 0.0041

Uranus 20666-10-28 08:38 G 9269461.70 9269461.86 9269462.02 0.0133 0.0022

Uranus 20667-01-24 13:12 G 9269549.89 9269550.05 9269550.20 0.0133 0.0004

Uranus 20667-04-22 17:31 G 9269638.08 9269638.23 9269638.39 0.0133 0.0016

Uranus 20667-07-19 22:04 G 9269726.27 9269726.42 9269726.57 0.0133 0.0034

Uranus 20667-10-16 02:24 G 9269814.46 9269814.60 9269814.75 0.0133 0.0052

Uranus 20668-01-12 06:43 G 9269902.65 9269902.78 9269902.92 0.0133 0.0071

Uranus 20668-04-09 11:02 G 9269990.85 9269990.96 9269991.08 0.0133 0.0089

Venus 20668-04-10 03:21 G 9269991.52 9269991.64 9269991.76 0.3692 0.0418

Uranus 20668-07-06 15:21 G 9270079.06 9270079.14 9270079.23 0.0133 0.0107

Uranus 20668-10-02 19:40 G 9270167.27 9270167.32 9270167.37 0.0133 0.0125

Mars 20668-11-04 07:55 G 9270199.71 9270199.83 9270199.95 0.1614 0.0824

Venus 20669-10-21 21:50 G 9270551.31 9270551.41 9270551.50 0.3679 0.2196

Jupiter 20670-06-06 20:52 G 9270779.21 9270779.37 9270779.52 0.0529 0.0078

Saturn 20671-11-15 21:36 G 9271306.32 9271306.40 9271306.49 0.0285 0.0237

Saturn 20672-02-12 15:36 G 9271395.00 9271395.15 9271395.30 0.0285 0.0110

Saturn 20672-05-11 08:52 G 9271483.71 9271483.87 9271484.03 0.0285 0.0014

Saturn 20672-08-08 01:40 G 9271572.44 9271572.57 9271572.71 0.0284 0.0134

Saturn 20672-11-04 18:14 G 9271661.19 9271661.26 9271661.33 0.0284 0.0251

Venus 20673-10-24 23:02 G 9272015.35 9272015.46 9272015.57 0.3692 0.1233

Venus 20675-05-07 19:12 G 9272575.17 9272575.30 9272575.42 0.3679 0.0366

Mars 20675-07-02 02:09 G 9272630.46 9272630.59 9272630.71 0.1925 0.0775

Jupiter 20675-10-25 18:00 G 9272746.15 9272746.25 9272746.35 0.0501 0.0359

Jupiter 20676-01-23 04:19 G 9272835.55 9272835.68 9272835.82 0.0498 0.0212

Moon 20676-06-14 12:57 G 9272978.92 9272979.04 9272979.16 0.2652 0.1050

Earth 20676-06-14 13:55 G 9272978.97 9272979.08 9272979.20 0.2650 0.1268 *

Mars 20678-03-27 15:50 G 9273630.12 9273630.16 9273630.20 0.1618 0.1527

Moon 20678-12-13 16:33 G 9273891.07 9273891.19 9273891.31 0.2687 0.0540

Earth 20678-12-13 17:02 G 9273891.09 9273891.21 9273891.33 0.2681 0.0679 *

Venus 20679-05-10 18:14 G 9274039.19 9274039.26 9274039.34 0.3693 0.2808

Mars 20680-03-02 09:21 G 9274335.83 9274335.89 9274335.95 0.1604 0.1442

Venus 20680-11-20 16:48 G 9274599.09 9274599.20 9274599.32 0.3678 0.1591

Jupiter 20682-03-25 20:38 G 9275089.20 9275089.36 9275089.51 0.0528 0.0113

Venus 20686-06-06 15:07 G 9276623.11 9276623.13 9276623.15 0.3678 0.3622

Saturn 20686-11-23 16:04 G 9276793.09 9276793.17 9276793.26 0.0274 0.0221

Saturn 20687-02-20 05:45 G 9276881.61 9276881.74 9276881.87 0.0274 0.0123

Saturn 20687-05-19 19:26 G 9276970.16 9276970.31 9276970.46 0.0274 0.0023

Jupiter 20687-08-13 20:52 G 9277056.37 9277056.37 9277056.38 0.0502 0.0501

Saturn 20687-08-16 09:36 G 9277058.76 9277058.90 9277059.04 0.0275 0.0082

Jupiter 20687-11-11 07:12 G 9277145.66 9277145.80 9277145.95 0.0499 0.0067

Saturn 20687-11-13 00:00 G 9277147.39 9277147.50 9277147.61 0.0275 0.0187

Mars 20689-07-23 16:48 G 9277766.08 9277766.20 9277766.33 0.1607 0.0716

Earth 20691-12-16 14:09 G 9278642.05 9278642.09 9278642.14 0.2681 0.2474

Moon 20691-12-16 14:38 G 9278642.07 9278642.11 9278642.14 0.2687 0.2559 *

Jupiter 20694-01-11 19:12 G 9279399.18 9279399.30 9279399.43 0.0527 0.0320

Jupiter 20694-04-11 17:31 G 9279489.15 9279489.23 9279489.32 0.0531 0.0432

Mars 20696-03-19 18:28 G 9280197.24 9280197.27 9280197.30 0.1935 0.1866

Moon 20696-06-09 20:38 G 9280279.29 9280279.36 9280279.42 0.2644 0.2325

Earth 20696-06-09 21:07 G 9280279.31 9280279.38 9280279.44 0.2650 0.2308 *

Moon 20698-12-09 03:50 G 9281191.62 9281191.66 9281191.71 0.2678 0.2484

Earth 20698-12-09 04:48 G 9281191.65 9281191.70 9281191.75 0.2681 0.2422 *

Mars 20698-12-14 00:28 G 9281196.38 9281196.52 9281196.66 0.1610 0.0031

Jupiter 20699-08-30 10:33 G 9281455.79 9281455.94 9281456.08 0.0500 0.0071

Saturn 20701-04-05 00:00 G 9282038.44 9282038.50 9282038.57 0.0285 0.0261

Saturn 20701-07-02 18:00 G 9282127.11 9282127.25 9282127.39 0.0285 0.0133

Saturn 20701-09-29 11:31 G 9282215.82 9282215.98 9282216.14 0.0285 0.0010

Saturn 20701-12-27 04:19 G 9282304.54 9282304.68 9282304.83 0.0284 0.0112

Saturn 20702-03-25 20:52 G 9282393.28 9282393.37 9282393.46 0.0284 0.0229

Mars 20705-08-10 22:33 G 9283627.32 9283627.44 9283627.57 0.1930 0.0635

Jupiter 20705-10-31 18:43 G 9283709.25 9283709.28 9283709.32 0.0526 0.0513

Jupiter 20706-01-29 17:45 G 9283799.10 9283799.24 9283799.38 0.0530 0.0246

Uranus 20707-08-13 10:33 G 9284359.89 9284359.94 9284360.00 0.0145 0.0135

Uranus 20707-11-09 15:36 G 9284448.06 9284448.15 9284448.25 0.0145 0.0112

Uranus 20708-02-05 20:52 G 9284536.25 9284536.37 9284536.49 0.0145 0.0089

Uranus 20708-05-04 01:55 G 9284624.45 9284624.58 9284624.73 0.0145 0.0066

Mars 20708-05-06 08:09 G 9284626.72 9284626.84 9284626.97 0.1614 0.0721

Uranus 20708-07-31 07:26 G 9284712.66 9284712.81 9284712.96 0.0145 0.0041

Uranus 20708-10-27 12:43 G 9284800.88 9284801.03 9284801.19 0.0145 0.0017

Uranus 20709-01-23 18:00 G 9284889.10 9284889.25 9284889.41 0.0145 0.0008

Uranus 20709-04-21 23:31 G 9284977.33 9284977.48 9284977.63 0.0145 0.0032

Moon 20709-06-13 19:26 G 9285030.18 9285030.31 9285030.44 0.2649 0.0503

Earth 20709-06-13 20:24 G 9285030.22 9285030.35 9285030.49 0.2650 0.0295 *

Uranus 20709-07-19 05:02 G 9285065.56 9285065.71 9285065.85 0.0145 0.0057

Uranus 20709-10-15 10:19 G 9285153.81 9285153.93 9285154.07 0.0145 0.0082

Uranus 20710-01-11 15:50 G 9285242.06 9285242.16 9285242.28 0.0145 0.0107

Uranus 20710-04-09 21:36 G 9285330.34 9285330.40 9285330.47 0.0145 0.0132

Jupiter 20711-06-19 13:40 G 9285765.94 9285766.07 9285766.20 0.0500 0.0209

Jupiter 20711-09-17 00:28 G 9285855.42 9285855.52 9285855.62 0.0497 0.0366

Moon 20711-12-13 00:43 G 9285942.41 9285942.53 9285942.64 0.2685 0.0898

Earth 20711-12-13 01:26 G 9285942.44 9285942.56 9285942.68 0.2681 0.0721 *

Venus 20713-10-17 09:50 G 9286616.87 9286616.91 9286616.96 0.3691 0.3344

Mars 20715-01-01 02:09 G 9287057.46 9287057.59 9287057.71 0.1925 0.0655

Saturn 20716-04-12 17:45 G 9287525.18 9287525.24 9287525.29 0.0274 0.0251

Saturn 20716-07-10 06:57 G 9287613.67 9287613.79 9287613.92 0.0274 0.0154

Saturn 20716-10-06 20:38 G 9287702.22 9287702.36 9287702.51 0.0274 0.0055

Saturn 20717-01-03 10:33 G 9287790.80 9287790.94 9287791.09 0.0275 0.0049

Saturn 20717-04-02 00:57 G 9287879.41 9287879.54 9287879.67 0.0275 0.0153

Saturn 20717-06-29 15:21 G 9287968.10 9287968.14 9287968.20 0.0275 0.0261

Mars 20717-09-26 16:04 G 9288057.11 9288057.17 9288057.23 0.1618 0.1426

Jupiter 20717-11-17 18:14 G 9288109.10 9288109.26 9288109.41 0.0529 0.0066

Venus 20719-05-03 06:00 G 9288640.65 9288640.75 9288640.86 0.3691 0.1581

Mars 20719-09-02 09:36 G 9288762.87 9288762.90 9288762.94 0.1604 0.1550

Venus 20720-11-12 23:45 G 9289200.44 9289200.49 9289200.53 0.3680 0.3407

Moon 20722-06-16 18:28 G 9289781.17 9289781.27 9289781.38 0.2653 0.1614

Earth 20722-06-16 19:40 G 9289781.21 9289781.32 9289781.42 0.2651 0.1664 *

Jupiter 20723-04-07 16:48 G 9290076.10 9290076.20 9290076.31 0.0501 0.0349

Jupiter 20723-07-06 03:21 G 9290165.51 9290165.64 9290165.77 0.0498 0.0222

Pluto 20724-03-14 19:55 G 9290418.30 9290418.33 9290418.38 0.0070 0.0066

Pluto 20724-06-10 20:24 G 9290506.29 9290506.35 9290506.44 0.0070 0.0057

Pluto 20724-09-06 21:21 G 9290594.30 9290594.39 9290594.49 0.0070 0.0047

Venus 20724-11-16 01:55 G 9290664.46 9290664.58 9290664.70 0.3692 0.0122

Pluto 20724-12-03 21:50 G 9290682.31 9290682.41 9290682.53 0.0070 0.0038

Moon 20724-12-14 21:50 G 9290693.30 9290693.41 9290693.53 0.2687 0.1045

Earth 20724-12-14 22:19 G 9290693.32 9290693.43 9290693.55 0.2681 0.1033 *

Pluto 20725-03-01 22:33 G 9290770.32 9290770.44 9290770.56 0.0071 0.0029

Pluto 20725-05-28 23:02 G 9290858.34 9290858.46 9290858.59 0.0071 0.0020

Pluto 20725-08-24 23:45 G 9290946.36 9290946.49 9290946.62 0.0071 0.0010

Pluto 20725-11-21 00:28 G 9291034.39 9291034.52 9291034.65 0.0071 0.0000

Pluto 20726-02-17 00:57 G 9291122.42 9291122.54 9291122.68 0.0071 0.0010

Pluto 20726-05-16 01:40 G 9291210.45 9291210.57 9291210.70 0.0071 0.0019

Venus 20726-05-29 20:38 G 9291224.25 9291224.36 9291224.47 0.3679 0.1621

Pluto 20726-08-12 02:09 G 9291298.48 9291298.59 9291298.72 0.0071 0.0029

Pluto 20726-11-08 02:52 G 9291386.52 9291386.62 9291386.74 0.0071 0.0039

Pluto 20727-02-04 03:36 G 9291474.56 9291474.65 9291474.75 0.0071 0.0049

Pluto 20727-05-03 04:04 G 9291562.61 9291562.67 9291562.76 0.0072 0.0059

Neptune 20727-05-12 04:33 G 9291571.67 9291571.69 9291571.73 0.0088 0.0086

Pluto 20727-07-30 04:48 G 9291650.68 9291650.70 9291650.74 0.0072 0.0069

Neptune 20727-08-08 06:14 G 9291659.71 9291659.76 9291659.84 0.0088 0.0080

Neptune 20727-11-04 08:09 G 9291747.77 9291747.84 9291747.94 0.0088 0.0072

Neptune 20728-01-31 10:04 G 9291835.83 9291835.92 9291836.03 0.0088 0.0065

Neptune 20728-04-28 12:00 G 9291923.89 9291924.00 9291924.12 0.0088 0.0057

Neptune 20728-07-25 13:40 G 9292011.96 9292012.07 9292012.21 0.0088 0.0050

Neptune 20728-10-21 15:50 G 9292100.03 9292100.16 9292100.29 0.0088 0.0042

Neptune 20729-01-17 17:31 G 9292188.10 9292188.23 9292188.37 0.0088 0.0035

Mars 20729-01-22 17:02 G 9292193.09 9292193.21 9292193.33 0.1607 0.0821

Neptune 20729-04-15 19:12 G 9292276.17 9292276.30 9292276.46 0.0088 0.0029

Neptune 20729-07-12 21:21 G 9292364.24 9292364.39 9292364.54 0.0088 0.0020

Jupiter 20729-09-05 18:43 G 9292419.12 9292419.28 9292419.43 0.0528 0.0115

Neptune 20729-10-08 23:16 G 9292452.32 9292452.47 9292452.62 0.0088 0.0013

Neptune 20730-01-05 01:12 G 9292540.40 9292540.55 9292540.70 0.0088 0.0005

Neptune 20730-04-03 03:07 G 9292628.47 9292628.63 9292628.78 0.0088 0.0003

Venus 20730-06-01 21:36 G 9292688.29 9292688.40 9292688.50 0.3692 0.1750

Neptune 20730-06-30 04:48 G 9292716.55 9292716.70 9292716.86 0.0088 0.0010

Neptune 20730-09-26 06:43 G 9292804.64 9292804.78 9292804.94 0.0088 0.0018

Saturn 20730-11-19 17:16 G 9292859.09 9292859.22 9292859.34 0.0285 0.0178

Neptune 20730-12-23 08:38 G 9292892.72 9292892.86 9292893.01 0.0088 0.0025

Saturn 20731-02-16 10:48 G 9292947.80 9292947.95 9292948.11 0.0285 0.0053

Neptune 20731-03-21 10:33 G 9292980.80 9292980.94 9292981.09 0.0088 0.0033

Saturn 20731-05-16 04:04 G 9293036.51 9293036.67 9293036.82 0.0285 0.0070

Neptune 20731-06-17 12:28 G 9293068.89 9293069.02 9293069.16 0.0088 0.0040

Saturn 20731-08-12 20:38 G 9293125.25 9293125.36 9293125.48 0.0284 0.0189

Neptune 20731-09-13 14:24 G 9293156.98 9293157.10 9293157.24 0.0088 0.0048

Neptune 20731-12-10 16:19 G 9293245.07 9293245.18 9293245.31 0.0088 0.0056

Venus 20731-12-13 18:14 G 9293248.13 9293248.26 9293248.38 0.3679 0.0258

Neptune 20732-03-07 18:28 G 9293333.16 9293333.27 9293333.38 0.0088 0.0063

Neptune 20732-06-03 20:09 G 9293421.26 9293421.34 9293421.44 0.0088 0.0071

Neptune 20732-08-30 22:04 G 9293509.37 9293509.42 9293509.50 0.0088 0.0079

Neptune 20732-11-27 00:00 G 9293597.50 9293597.50 9293597.54 0.0088 0.0087

Jupiter 20735-01-24 19:12 G 9294386.30 9294386.30 9294386.32 0.0502 0.0500

Jupiter 20735-04-24 05:31 G 9294475.59 9294475.73 9294475.87 0.0499 0.0067

Venus 20735-12-16 16:48 G 9294712.15 9294712.20 9294712.25 0.3693 0.3306

Venus 20737-06-28 16:04 G 9295272.07 9295272.17 9295272.27 0.3678 0.2227

Mars 20738-06-15 00:43 G 9295623.39 9295623.53 9295623.67 0.1610 0.0102

Jupiter 20741-06-24 18:14 G 9296729.13 9296729.26 9296729.39 0.0527 0.0306

Jupiter 20741-09-22 16:48 G 9296819.11 9296819.20 9296819.28 0.0531 0.0446

Moon 20742-06-12 01:55 G 9297081.49 9297081.58 9297081.67 0.2645 0.1993

Earth 20742-06-12 02:38 G 9297081.52 9297081.61 9297081.70 0.2650 0.1891 *

Moon 20744-12-10 09:07 G 9297993.81 9297993.88 9297993.95 0.2679 0.2223

Earth 20744-12-10 10:04 G 9297993.84 9297993.92 9297993.99 0.2681 0.2077 *

Mars 20745-02-08 22:48 G 9298054.33 9298054.45 9298054.57 0.1930 0.0762

Saturn 20745-08-30 20:38 G 9298257.35 9298257.36 9298257.38 0.0274 0.0271

Saturn 20745-11-27 10:04 G 9298345.81 9298345.92 9298346.03 0.0274 0.0174

Saturn 20746-02-23 23:31 G 9298434.34 9298434.48 9298434.63 0.0274 0.0075

Saturn 20746-05-23 13:40 G 9298522.92 9298523.07 9298523.22 0.0275 0.0028

Saturn 20746-08-20 03:50 G 9298611.53 9298611.66 9298611.79 0.0275 0.0132

Saturn 20746-11-16 18:28 G 9298700.20 9298700.27 9298700.34 0.0275 0.0239

Jupiter 20747-02-10 08:24 G 9298785.71 9298785.85 9298785.99 0.0500 0.0078

Mars 20747-11-05 08:24 G 9299053.72 9299053.85 9299053.98 0.1614 0.0616

Uranus 20749-06-07 12:00 G 9299633.99 9299634.00 9299634.02 0.0133 0.0132

Uranus 20749-09-03 16:33 G 9299722.12 9299722.19 9299722.29 0.0133 0.0113

Uranus 20749-11-30 21:21 G 9299810.29 9299810.39 9299810.51 0.0133 0.0093

Uranus 20750-02-27 02:09 G 9299898.46 9299898.59 9299898.73 0.0133 0.0074

Uranus 20750-05-26 06:43 G 9299986.64 9299986.78 9299986.93 0.0133 0.0055

Uranus 20750-08-22 11:31 G 9300074.82 9300074.98 9300075.13 0.0133 0.0035

Uranus 20750-11-18 16:04 G 9300163.01 9300163.17 9300163.32 0.0133 0.0016

Uranus 20751-02-14 20:38 G 9300251.20 9300251.36 9300251.51 0.0133 0.0004

Uranus 20751-05-14 00:57 G 9300339.39 9300339.54 9300339.70 0.0133 0.0021

Uranus 20751-08-10 05:16 G 9300427.58 9300427.72 9300427.88 0.0133 0.0040

Uranus 20751-11-06 09:50 G 9300515.77 9300515.91 9300516.05 0.0133 0.0058

Uranus 20752-02-02 14:09 G 9300603.97 9300604.09 9300604.22 0.0133 0.0077

Uranus 20752-04-30 18:28 G 9300692.17 9300692.27 9300692.38 0.0133 0.0095

Uranus 20752-07-27 22:48 G 9300780.38 9300780.45 9300780.53 0.0133 0.0113

Uranus 20752-10-24 02:52 G 9300868.61 9300868.62 9300868.66 0.0133 0.0132

Jupiter 20753-04-12 16:48 G 9301039.17 9301039.20 9301039.23 0.0526 0.0515

Jupiter 20753-07-11 15:50 G 9301129.02 9301129.16 9301129.29 0.0530 0.0244

Mars 20754-07-02 02:24 G 9301484.48 9301484.60 9301484.73 0.1926 0.0512

Moon 20755-06-15 00:57 G 9301832.40 9301832.54 9301832.67 0.2650 0.0061

Earth 20755-06-15 02:09 G 9301832.45 9301832.59 9301832.72 0.2650 0.0137 *

Mars 20757-03-27 16:19 G 9302484.10 9302484.18 9302484.25 0.1618 0.1326

Moon 20757-12-13 06:00 G 9302744.63 9302744.75 9302744.87 0.2685 0.0416

Earth 20757-12-13 06:43 G 9302744.66 9302744.78 9302744.90 0.2681 0.0362 *

Jupiter 20758-11-29 11:45 G 9303095.86 9303095.99 9303096.12 0.0501 0.0215

Jupiter 20759-02-26 22:19 G 9303185.33 9303185.43 9303185.53 0.0498 0.0361

Saturn 20760-04-07 19:55 G 9303591.22 9303591.33 9303591.45 0.0285 0.0199

Saturn 20760-07-05 13:40 G 9303679.91 9303680.07 9303680.22 0.0285 0.0073

Saturn 20760-10-02 06:57 G 9303768.63 9303768.79 9303768.94 0.0285 0.0050

Saturn 20760-12-29 23:45 G 9303857.36 9303857.49 9303857.61 0.0284 0.0169

Saturn 20761-03-28 16:04 G 9303946.17 9303946.17 9303946.17 0.0284 0.0284

Mars 20763-11-22 06:00 G 9304914.70 9304914.75 9304914.79 0.1920 0.1806

Jupiter 20765-04-29 15:36 G 9305439.00 9305439.15 9305439.31 0.0529 0.0056

Moon 20768-06-17 00:14 G 9306583.42 9306583.51 9306583.61 0.2654 0.1889

Earth 20768-06-17 01:12 G 9306583.47 9306583.55 9306583.63 0.2651 0.2065 *

Mars 20768-07-23 17:16 G 9306620.11 9306620.22 9306620.34 0.1607 0.0927

Venus 20770-05-24 08:38 G 9307289.78 9307289.86 9307289.94 0.3691 0.2776

Jupiter 20770-09-17 14:52 G 9307406.02 9307406.12 9307406.22 0.0501 0.0352

Jupiter 20770-12-16 01:26 G 9307495.43 9307495.56 9307495.69 0.0498 0.0220

Moon 20770-12-16 03:21 G 9307495.54 9307495.64 9307495.75 0.2687 0.1309 *

Earth 20770-12-16 03:36 G 9307495.55 9307495.65 9307495.76 0.2681 0.1403 *

Saturn 20775-04-16 11:31 G 9309077.89 9309077.98 9309078.08 0.0274 0.0204

Saturn 20775-07-14 01:12 G 9309166.41 9309166.55 9309166.69 0.0274 0.0105

Saturn 20775-10-10 14:52 G 9309254.97 9309255.12 9309255.27 0.0274 0.0007

Venus 20775-12-08 04:48 G 9309313.58 9309313.70 9309313.81 0.3691 0.1030

Saturn 20776-01-07 05:02 G 9309343.57 9309343.71 9309343.85 0.0275 0.0099

Saturn 20776-04-04 19:26 G 9309432.21 9309432.31 9309432.41 0.0275 0.0206

Jupiter 20777-02-15 15:50 G 9309749.00 9309749.16 9309749.31 0.0528 0.0129

Venus 20777-06-19 22:33 G 9309873.37 9309873.44 9309873.52 0.3680 0.2839

Mars 20777-12-14 00:57 G 9310050.40 9310050.54 9310050.68 0.1610 0.0206

Venus 20781-06-23 00:28 G 9311337.41 9311337.52 9311337.64 0.3692 0.0661

Jupiter 20782-07-06 18:14 G 9311716.23 9311716.26 9311716.29 0.0502 0.0490

Jupiter 20782-10-04 04:19 G 9311805.54 9311805.68 9311805.82 0.0499 0.0077

Venus 20783-01-03 19:40 G 9311897.20 9311897.32 9311897.44 0.3679 0.1033

Mars 20784-08-09 23:02 G 9312481.34 9312481.46 9312481.57 0.1931 0.0893

Venus 20787-01-06 19:55 G 9313361.24 9313361.33 9313361.43 0.3692 0.2264

Mars 20787-05-06 08:38 G 9313480.73 9313480.86 9313481.00 0.1614 0.0509

Moon 20788-06-12 07:26 G 9313883.70 9313883.81 9313883.92 0.2647 0.1601

Earth 20788-06-12 08:24 G 9313883.74 9313883.85 9313883.96 0.2650 0.1465 *

Venus 20788-07-19 17:16 G 9313921.10 9313921.22 9313921.35 0.3678 0.0888

Jupiter 20788-12-04 16:04 G 9314059.04 9314059.17 9314059.30 0.0528 0.0310

Jupiter 20789-03-04 14:38 G 9314149.03 9314149.11 9314149.19 0.0531 0.0444

Saturn 20789-08-25 18:57 G 9314323.22 9314323.29 9314323.38 0.0285 0.0245

Saturn 20789-11-22 12:57 G 9314411.89 9314412.04 9314412.19 0.0285 0.0118

Saturn 20790-02-19 06:28 G 9314500.61 9314500.77 9314500.93 0.0285 0.0009

Saturn 20790-05-18 23:16 G 9314589.33 9314589.47 9314589.61 0.0284 0.0127

Saturn 20790-08-15 15:50 G 9314678.08 9314678.16 9314678.24 0.0284 0.0244

Moon 20790-12-11 14:24 G 9314796.01 9314796.10 9314796.18 0.2681 0.1847

Earth 20790-12-11 15:07 G 9314796.04 9314796.13 9314796.23 0.2681 0.1729 *

Uranus 20791-09-02 18:14 G 9315061.20 9315061.26 9315061.34 0.0145 0.0128

Uranus 20791-11-29 23:16 G 9315149.38 9315149.47 9315149.59 0.0145 0.0105

Uranus 20792-02-26 04:48 G 9315237.57 9315237.70 9315237.82 0.0145 0.0081

Uranus 20792-05-24 09:50 G 9315325.77 9315325.91 9315326.06 0.0145 0.0057

Uranus 20792-08-20 15:07 G 9315413.98 9315414.13 9315414.29 0.0145 0.0033

Uranus 20792-11-16 20:38 G 9315502.20 9315502.36 9315502.51 0.0145 0.0009

Uranus 20793-02-13 01:55 G 9315590.43 9315590.58 9315590.74 0.0145 0.0016

Uranus 20793-05-12 07:12 G 9315678.66 9315678.80 9315678.96 0.0145 0.0040

Uranus 20793-08-08 12:43 G 9315766.89 9315767.03 9315767.17 0.0145 0.0065

Uranus 20793-11-04 18:14 G 9315855.14 9315855.26 9315855.39 0.0145 0.0090

Mars 20793-12-31 02:52 G 9315911.49 9315911.62 9315911.75 0.1926 0.0370

Uranus 20794-02-01 00:00 G 9315943.40 9315943.50 9315943.59 0.0145 0.0115

Venus 20794-02-02 15:21 G 9315945.06 9315945.14 9315945.22 0.3678 0.2878

Uranus 20794-04-30 05:16 G 9316031.69 9316031.72 9316031.77 0.0145 0.0140

Jupiter 20794-07-23 06:43 G 9316115.63 9316115.78 9316115.92 0.0500 0.0078

Mars 20796-09-25 16:33 G 9316911.10 9316911.19 9316911.28 0.1617 0.1219

Jupiter 20800-09-22 15:36 G 9318369.11 9318369.15 9318369.20 0.0526 0.0501

Jupiter 20800-12-21 14:38 G 9318458.98 9318459.11 9318459.25 0.0530 0.0258

Moon 20801-06-15 06:28 G 9318634.64 9318634.77 9318634.90 0.2650 0.0337

Earth 20801-06-15 07:40 G 9318634.69 9318634.82 9318634.95 0.2650 0.0530 *

Mars 20803-05-23 06:00 G 9319341.69 9319341.75 9319341.82 0.1920 0.1677

Moon 20803-12-14 11:16 G 9319546.84 9319546.97 9319547.09 0.2685 0.0189

Earth 20803-12-14 12:00 G 9319546.87 9319547.00 9319547.12 0.2681 0.0071 *

Saturn 20804-09-02 14:09 G 9319810.02 9319810.09 9319810.18 0.0274 0.0226

Saturn 20804-11-30 03:36 G 9319898.53 9319898.65 9319898.79 0.0274 0.0128

Saturn 20805-02-26 17:31 G 9319987.08 9319987.23 9319987.38 0.0274 0.0027

Saturn 20805-05-26 07:26 G 9320075.67 9320075.81 9320075.96 0.0275 0.0077

Saturn 20805-08-22 22:04 G 9320164.30 9320164.42 9320164.53 0.0275 0.0183

Jupiter 20806-05-11 09:36 G 9320425.77 9320425.90 9320426.03 0.0500 0.0220

Jupiter 20806-08-08 20:09 G 9320515.24 9320515.34 9320515.44 0.0497 0.0354

Mars 20808-01-22 17:31 G 9321047.13 9321047.23 9321047.34 0.1606 0.1038

Pluto 20810-01-27 22:48 G 9321783.40 9321783.45 9321783.53 0.0074 0.0069

Pluto 20810-04-26 01:26 G 9321871.43 9321871.56 9321871.70 0.0073 0.0053

Pluto 20810-07-23 04:04 G 9321959.50 9321959.67 9321959.84 0.0073 0.0037

Pluto 20810-10-19 06:14 G 9322047.59 9322047.76 9322047.96 0.0073 0.0022

Pluto 20811-01-15 09:07 G 9322135.68 9322135.88 9322136.08 0.0073 0.0005

Neptune 20811-01-31 20:09 G 9322152.28 9322152.34 9322152.42 0.0089 0.0081

Pluto 20811-04-13 11:16 G 9322223.79 9322223.97 9322224.18 0.0073 0.0011

Neptune 20811-04-29 22:48 G 9322240.36 9322240.45 9322240.55 0.0089 0.0072

Pluto 20811-07-10 13:55 G 9322311.90 9322312.08 9322312.27 0.0073 0.0026

Neptune 20811-07-27 00:57 G 9322328.44 9322328.54 9322328.67 0.0089 0.0064

Pluto 20811-10-06 16:04 G 9322400.02 9322400.17 9322400.34 0.0073 0.0042

Neptune 20811-10-23 03:36 G 9322416.53 9322416.65 9322416.79 0.0089 0.0055

Pluto 20812-01-02 18:43 G 9322488.16 9322488.28 9322488.40 0.0073 0.0057

Neptune 20812-01-19 06:14 G 9322504.62 9322504.76 9322504.91 0.0089 0.0047

Pluto 20812-03-30 20:52 G 9322576.37 9322576.37 9322576.40 0.0073 0.0072

Neptune 20812-04-16 08:38 G 9322592.72 9322592.86 9322593.02 0.0089 0.0038

Neptune 20812-07-13 11:02 G 9322680.81 9322680.96 9322681.12 0.0089 0.0030

Jupiter 20812-10-09 13:40 G 9322768.91 9322769.07 9322769.22 0.0529 0.0055

Neptune 20812-10-09 13:26 G 9322768.91 9322769.06 9322769.23 0.0089 0.0021 *

Neptune 20813-01-05 16:04 G 9322857.01 9322857.17 9322857.34 0.0089 0.0012

Neptune 20813-04-03 18:28 G 9322945.11 9322945.27 9322945.44 0.0089 0.0004

Neptune 20813-06-30 20:52 G 9323033.21 9323033.37 9323033.54 0.0089 0.0005

Neptune 20813-09-26 23:16 G 9323121.31 9323121.47 9323121.64 0.0089 0.0013

Neptune 20813-12-24 01:40 G 9323209.42 9323209.57 9323209.73 0.0089 0.0022

Neptune 20814-03-22 04:04 G 9323297.52 9323297.67 9323297.83 0.0089 0.0030

Neptune 20814-06-18 06:28 G 9323385.62 9323385.77 9323385.92 0.0089 0.0038

Moon 20814-06-18 06:00 G 9323385.70 9323385.75 9323385.80 0.2656 0.2435 *

Earth 20814-06-18 06:43 G 9323385.73 9323385.78 9323385.82 0.2651 0.2454 *

Neptune 20814-09-14 08:52 G 9323473.73 9323473.87 9323474.01 0.0089 0.0047

Neptune 20814-12-11 10:48 G 9323561.84 9323561.95 9323562.09 0.0089 0.0056

Neptune 20815-03-09 13:12 G 9323649.95 9323650.05 9323650.18 0.0089 0.0064

Neptune 20815-06-05 15:36 G 9323738.07 9323738.15 9323738.26 0.0089 0.0072

Neptune 20815-09-01 18:00 G 9323826.18 9323826.25 9323826.33 0.0089 0.0079

Neptune 20815-11-28 20:09 G 9323914.32 9323914.34 9323914.38 0.0089 0.0088

Moon 20816-12-16 08:52 G 9324297.78 9324297.87 9324297.96 0.2688 0.1833

Earth 20816-12-16 08:52 G 9324297.78 9324297.87 9324297.96 0.2681 0.1765 *

Mars 20817-06-14 01:12 G 9324477.41 9324477.55 9324477.69 0.1610 0.0312

Jupiter 20818-02-27 12:43 G 9324735.94 9324736.03 9324736.14 0.0502 0.0358

Jupiter 20818-05-27 23:16 G 9324825.34 9324825.47 9324825.60 0.0498 0.0215

Saturn 20819-01-12 21:50 G 9325055.36 9325055.41 9325055.48 0.0285 0.0266

Saturn 20819-04-11 16:04 G 9325144.03 9325144.17 9325144.31 0.0285 0.0137

Saturn 20819-07-09 09:21 G 9325232.74 9325232.89 9325233.05 0.0285 0.0015

Saturn 20819-10-06 02:24 G 9325321.46 9325321.60 9325321.75 0.0284 0.0109

Saturn 20820-01-02 18:57 G 9325410.20 9325410.29 9325410.39 0.0284 0.0226

Mars 20824-02-08 23:16 G 9326908.36 9326908.47 9326908.58 0.1931 0.1032

Jupiter 20824-07-28 13:12 G 9327078.90 9327079.05 9327079.21 0.0528 0.0139

Mars 20826-11-04 08:52 G 9327907.73 9327907.87 9327908.00 0.1613 0.0407

Venus 20826-12-29 07:26 G 9327962.71 9327962.81 9327962.90 0.3691 0.2212

Jupiter 20829-12-16 16:19 G 9329046.16 9329046.18 9329046.20 0.0502 0.0493

Jupiter 20830-03-16 02:24 G 9329135.46 9329135.60 9329135.74 0.0499 0.0074

Venus 20832-07-14 03:21 G 9329986.52 9329986.64 9329986.76 0.3692 0.0480

Uranus 20833-06-27 19:26 G 9330335.27 9330335.31 9330335.37 0.0133 0.0126

Mars 20833-07-01 02:52 G 9330338.49 9330338.62 9330338.75 0.1926 0.0249

Uranus 20833-09-24 00:14 G 9330423.42 9330423.51 9330423.61 0.0133 0.0106

Uranus 20833-12-21 04:48 G 9330511.59 9330511.70 9330511.83 0.0133 0.0087

Saturn 20834-01-20 16:04 G 9330542.12 9330542.17 9330542.23 0.0274 0.0254

Venus 20834-01-24 21:36 G 9330546.30 9330546.40 9330546.49 0.3679 0.2267

Uranus 20834-03-19 09:36 G 9330599.77 9330599.90 9330600.04 0.0133 0.0067

Saturn 20834-04-19 05:31 G 9330630.61 9330630.73 9330630.85 0.0274 0.0157

Moon 20834-06-13 12:57 G 9330685.91 9330686.04 9330686.16 0.2647 0.1146

Earth 20834-06-13 13:55 G 9330685.96 9330686.08 9330686.20 0.2650 0.1051 *

Uranus 20834-06-15 14:09 G 9330687.95 9330688.09 9330688.25 0.0133 0.0049

Saturn 20834-07-16 19:12 G 9330719.15 9330719.30 9330719.44 0.0274 0.0057

Uranus 20834-09-11 18:57 G 9330776.13 9330776.29 9330776.44 0.0133 0.0029

Saturn 20834-10-13 09:07 G 9330807.73 9330807.88 9330808.03 0.0275 0.0046

Uranus 20834-12-08 23:31 G 9330864.32 9330864.48 9330864.64 0.0133 0.0010

Saturn 20835-01-09 23:16 G 9330896.35 9330896.47 9330896.60 0.0275 0.0151

Uranus 20835-03-07 04:04 G 9330952.51 9330952.67 9330952.82 0.0133 0.0009

Saturn 20835-04-08 13:55 G 9330985.03 9330985.08 9330985.13 0.0275 0.0258

Uranus 20835-06-03 08:24 G 9331040.70 9331040.85 9331041.01 0.0133 0.0028

Uranus 20835-08-30 12:57 G 9331128.89 9331129.04 9331129.19 0.0133 0.0046

Uranus 20835-11-26 17:16 G 9331217.09 9331217.22 9331217.36 0.0133 0.0065

Uranus 20836-02-22 21:36 G 9331305.29 9331305.40 9331305.53 0.0133 0.0083

Mars 20836-03-26 16:33 G 9331338.10 9331338.19 9331338.29 0.1617 0.1120

Jupiter 20836-05-16 13:12 G 9331388.93 9331389.05 9331389.18 0.0527 0.0325

Uranus 20836-05-21 02:09 G 9331393.49 9331393.59 9331393.69 0.0133 0.0101

Jupiter 20836-08-14 11:45 G 9331478.90 9331478.99 9331479.08 0.0531 0.0429

Uranus 20836-08-17 06:28 G 9331481.70 9331481.77 9331481.83 0.0133 0.0119

Moon 20836-12-11 19:26 G 9331598.21 9331598.31 9331598.41 0.2683 0.1473

Earth 20836-12-11 20:24 G 9331598.25 9331598.35 9331598.45 0.2681 0.1376 *

Venus 20838-01-27 23:02 G 9332010.35 9332010.46 9332010.57 0.3692 0.1185

Venus 20839-08-10 18:57 G 9332570.16 9332570.29 9332570.41 0.3679 0.0448

Jupiter 20842-01-02 05:31 G 9333445.59 9333445.73 9333445.87 0.0500 0.0067

Mars 20842-11-21 06:28 G 9333768.69 9333768.77 9333768.85 0.1920 0.1532

Venus 20843-08-13 18:28 G 9334034.19 9334034.27 9334034.34 0.3693 0.2770

Venus 20845-02-23 16:33 G 9334594.07 9334594.19 9334594.30 0.3678 0.1506

Moon 20847-06-16 12:14 G 9335436.88 9335437.01 9335437.13 0.2651 0.0818

Earth 20847-06-16 13:12 G 9335436.93 9335437.05 9335437.18 0.2651 0.0940 *

Mars 20847-07-23 17:45 G 9335474.15 9335474.24 9335474.34 0.1607 0.1149

Jupiter 20848-03-04 13:26 G 9335699.02 9335699.06 9335699.10 0.0527 0.0507

Jupiter 20848-06-02 12:28 G 9335788.89 9335789.02 9335789.16 0.0530 0.0255

Saturn 20848-08-28 15:07 G 9335876.01 9335876.13 9335876.25 0.0285 0.0182

Saturn 20848-11-25 08:38 G 9335964.71 9335964.86 9335965.02 0.0285 0.0058

Saturn 20849-02-22 01:55 G 9336053.43 9336053.58 9336053.74 0.0284 0.0066

Saturn 20849-05-21 18:43 G 9336142.16 9336142.28 9336142.40 0.0284 0.0184

Moon	20849-12-14 16:33 G	9336349.06	9336349.19	9336349.31	0.2686	0.0302
Earth	20849-12-14 17:02 G	9336349.09	9336349.21	9336349.34	0.2681	0.0360 *
Venus	20850-09-09 14:38 G	9336618.08	9336618.11	9336618.14	0.3678	0.3532
Jupiter	20853-10-21 07:55 G	9337755.70	9337755.83	9337755.96	0.0500	0.0218
Jupiter	20854-01-18 18:28 G	9337845.17	9337845.27	9337845.38	0.0497	0.0356
Mars	20856-12-13 01:26 G	9338904.42	9338904.56	9338904.70	0.1610	0.0422
Jupiter	20860-03-21 12:43 G	9340098.87	9340099.03	9340099.18	0.0529	0.0069
Earth	20862-12-17 14:09 G	9341100.01	9341100.09	9341100.16	0.2681	0.2133
Moon	20862-12-17 14:09 G	9341100.02	9341100.09	9341100.17	0.2688	0.2104 *
Mars	20863-08-09 23:31 G	9341335.38	9341335.48	9341335.58	0.1931	0.1166
Saturn	20863-09-06 07:40 G	9341362.71	9341362.82	9341362.93	0.0274	0.0182
Saturn	20863-12-03 21:21 G	9341451.25	9341451.39	9341451.53	0.0274	0.0083
Saturn	20864-03-01 11:16 G	9341539.82	9341539.97	9341540.12	0.0275	0.0021
Saturn	20864-05-29 01:26 G	9341628.42	9341628.56	9341628.69	0.0275	0.0124
Saturn	20864-08-25 15:50 G	9341717.08	9341717.16	9341717.25	0.0275	0.0231
Jupiter	20865-08-09 11:02 G	9342065.86	9342065.96	9342066.06	0.0501	0.0361
Jupiter	20865-11-06 21:21 G	9342155.26	9342155.39	9342155.52	0.0498	0.0210
Mars	20866-05-05 09:07 G	9342334.74	9342334.88	9342335.02	0.1613	0.0301
Jupiter	20872-01-08 11:16 G	9344408.82	9344408.97	9344409.13	0.0528	0.0138
Mars	20872-12-30 03:21 G	9344765.50	9344765.64	9344765.77	0.1926	0.0126
Uranus	20875-06-26 20:38 G	9345674.35	9345674.36	9345674.39	0.0145	0.0144
Uranus	20875-09-23 01:40 G	9345762.50	9345762.57	9345762.67	0.0145	0.0121
Mars	20875-09-25 16:48 G	9345765.10	9345765.20	9345765.31	0.1617	0.1016
Uranus	20875-12-20 06:57 G	9345850.69	9345850.79	9345850.91	0.0145	0.0097
Uranus	20876-03-17 12:14 G	9345938.88	9345939.01	9345939.15	0.0145	0.0073
Uranus	20876-06-13 17:31 G	9346027.09	9346027.23	9346027.38	0.0145	0.0050
Uranus	20876-09-09 22:48 G	9346115.30	9346115.45	9346115.60	0.0145	0.0026
Uranus	20876-12-07 04:04 G	9346203.52	9346203.67	9346203.83	0.0145	0.0004
Uranus	20877-03-05 09:36 G	9346291.74	9346291.90	9346292.05	0.0145	0.0023
Jupiter	20877-05-28 14:24 G	9346376.08	9346376.10	9346376.12	0.0502	0.0497

Uranus 20877-06-01 14:52 G 9346379.98 9346380.12 9346380.27 0.0145 0.0048

Jupiter 20877-08-26 00:28 G 9346465.37 9346465.52 9346465.66 0.0499 0.0071

Uranus 20877-08-28 20:24 G 9346468.22 9346468.35 9346468.49 0.0145 0.0072

Uranus 20877-11-25 01:40 G 9346556.47 9346556.57 9346556.70 0.0145 0.0098

Saturn 20878-01-15 18:00 G 9346608.14 9346608.25 9346608.36 0.0285 0.0204

Venus 20878-01-19 09:50 G 9346611.87 9346611.91 9346611.95 0.3691 0.3434

Uranus 20878-02-21 07:26 G 9346644.73 9346644.81 9346644.90 0.0145 0.0122

Saturn 20878-04-14 11:45 G 9346696.84 9346696.99 9346697.14 0.0285 0.0077

Saturn 20878-07-12 05:02 G 9346785.55 9346785.71 9346785.87 0.0285 0.0046

Saturn 20878-10-08 21:50 G 9346874.28 9346874.41 9346874.54 0.0284 0.0166

Saturn 20879-01-05 14:09 G 9346963.08 9346963.09 9346963.11 0.0284 0.0281

Moon 20880-06-13 18:28 G 9347488.14 9347488.27 9347488.40 0.2647 0.0829

Earth 20880-06-13 19:26 G 9347488.18 9347488.31 9347488.44 0.2651 0.0642 *

Mars 20882-05-22 06:43 G 9348195.69 9348195.78 9348195.87 0.1920 0.1401

Moon 20882-12-13 00:43 G 9348400.42 9348400.53 9348400.64 0.2683 0.1188

Earth 20882-12-13 01:40 G 9348400.46 9348400.57 9348400.68 0.2681 0.1018 *

Venus 20883-08-05 06:00 G 9348635.65 9348635.75 9348635.86 0.3691 0.1652

Jupiter 20883-10-27 10:48 G 9348718.83 9348718.95 9348719.08 0.0527 0.0331

Jupiter 20884-01-25 09:21 G 9348808.80 9348808.89 9348808.99 0.0530 0.0422

Venus 20885-02-14 23:31 G 9349195.44 9349195.48 9349195.52 0.3680 0.3469

Mars 20887-01-21 18:00 G 9349901.17 9349901.25 9349901.34 0.1606 0.1253

Venus 20889-02-18 01:55 G 9350659.47 9350659.58 9350659.70 0.3692 0.0121

Jupiter 20889-06-14 03:36 G 9350775.51 9350775.65 9350775.79 0.0500 0.0068

Venus 20890-08-31 20:24 G 9351219.25 9351219.35 9351219.46 0.3679 0.1698

Neptune 20892-02-06 03:36 G 9351742.62 9351742.65 9351742.71 0.0088 0.0084

Neptune 20892-05-04 05:45 G 9351830.67 9351830.74 9351830.81 0.0088 0.0077

Neptune 20892-07-31 07:26 G 9351918.73 9351918.81 9351918.91 0.0088 0.0069

Neptune 20892-10-27 09:07 G 9352006.79 9352006.88 9352007.00 0.0088 0.0062

Saturn 20893-01-23 09:50 G 9352094.81 9352094.91 9352095.00 0.0274 0.0209

Neptune 20893-01-23 11:16 G 9352094.85 9352094.97 9352095.09 0.0088 0.0055 *

Neptune 20893-04-21 12:57 G 9352182.92 9352183.04 9352183.17 0.0088 0.0047

Saturn 20893-04-21 23:02 G 9352183.33 9352183.46 9352183.60 0.0274 0.0111

Moon 20893-06-16 17:45 G 9352239.12 9352239.24 9352239.36 0.2653 0.1230

Earth 20893-06-16 18:43 G 9352239.17 9352239.28 9352239.40 0.2651 0.1340 *

Neptune 20893-07-18 14:38 G 9352270.99 9352271.11 9352271.26 0.0088 0.0040

Saturn 20893-07-19 12:57 G 9352271.89 9352272.04 9352272.19 0.0274 0.0010

Neptune 20893-10-14 16:48 G 9352359.06 9352359.20 9352359.34 0.0088 0.0033

Saturn 20893-10-16 03:07 G 9352360.48 9352360.63 9352360.77 0.0275 0.0094

Neptune 20894-01-10 18:28 G 9352447.13 9352447.27 9352447.42 0.0088 0.0025

Saturn 20894-01-12 17:16 G 9352449.12 9352449.22 9352449.33 0.0275 0.0200

Neptune 20894-04-08 20:24 G 9352535.21 9352535.35 9352535.50 0.0088 0.0018

Neptune 20894-07-05 22:19 G 9352623.28 9352623.43 9352623.58 0.0088 0.0010

Venus 20894-09-03 21:36 G 9352683.30 9352683.40 9352683.50 0.3692 0.1705

Neptune 20894-10-02 00:14 G 9352711.36 9352711.51 9352711.66 0.0088 0.0003

Neptune 20894-12-29 02:09 G 9352799.44 9352799.59 9352799.74 0.0088 0.0005

Neptune 20895-03-27 04:04 G 9352887.52 9352887.67 9352887.82 0.0088 0.0012

Neptune 20895-06-23 05:45 G 9352975.60 9352975.74 9352975.90 0.0088 0.0020

Jupiter 20895-08-15 10:33 G 9353028.92 9353028.94 9353028.96 0.0526 0.0521

Neptune 20895-09-19 07:40 G 9353063.68 9353063.82 9353063.97 0.0088 0.0028

Jupiter 20895-11-13 09:36 G 9353118.77 9353118.90 9353119.05 0.0530 0.0241

Moon 20895-12-15 21:50 G 9353151.29 9353151.41 9353151.53 0.2686 0.0657

Earth 20895-12-15 22:19 G 9353151.31 9353151.43 9353151.55 0.2681 0.0715 *

Neptune 20895-12-16 09:36 G 9353151.77 9353151.90 9353152.05 0.0088 0.0035

Neptune 20896-03-13 11:31 G 9353239.85 9353239.98 9353240.12 0.0088 0.0043

Venus 20896-03-16 18:00 G 9353243.12 9353243.25 9353243.37 0.3679 0.0194

Neptune 20896-06-09 13:40 G 9353327.94 9353328.07 9353328.19 0.0088 0.0051

Mars 20896-06-13 01:40 G 9353331.43 9353331.57 9353331.70 0.1610 0.0526

Neptune 20896-09-05 15:21 G 9353416.04 9353416.14 9353416.26 0.0088 0.0058

Neptune 20896-12-02 17:16 G 9353504.13 9353504.22 9353504.33 0.0088 0.0066

Neptune 20897-02-28 19:12 G 9353592.23 9353592.30 9353592.40 0.0088 0.0074

Neptune 20897-05-27 21:21 G 9353680.34 9353680.39 9353680.45 0.0088 0.0081

Venus 20900-03-20 16:48 G 9354707.15 9354707.20 9354707.25 0.3693 0.3275

Jupiter 20901-04-03 06:43 G 9355085.65 9355085.78 9355085.91 0.0501 0.0208

Jupiter 20901-07-01 17:31 G 9355175.13 9355175.23 9355175.32 0.0497 0.0367

Venus 20901-10-01 15:36 G 9355267.05 9355267.15 9355267.26 0.3678 0.2137

Mars 20903-02-08 23:31 G 9355762.39 9355762.48 9355762.58 0.1931 0.1291

Mars 20905-11-04 09:21 G 9356761.75 9356761.89 9356762.03 0.1613 0.0193

Saturn 20907-06-05 17:02 G 9357340.13 9357340.21 9357340.29 0.0285 0.0249

Jupiter 20907-09-02 10:19 G 9357428.78 9357428.93 9357429.09 0.0529 0.0064

Saturn 20907-09-02 11:02 G 9357428.81 9357428.96 9357429.10 0.0285 0.0122 *

Saturn 20907-11-30 04:19 G 9357517.52 9357517.68 9357517.84 0.0284 0.0003

Saturn 20908-02-26 21:21 G 9357606.25 9357606.39 9357606.53 0.0284 0.0123

Saturn 20908-05-25 13:55 G 9357695.00 9357695.08 9357695.16 0.0284 0.0240

Earth 20908-12-18 19:26 G 9357902.27 9357902.31 9357902.35 0.2681 0.2501

Moon 20908-12-18 19:26 G 9357902.28 9357902.31 9357902.35 0.2688 0.2573 *

Mars 20912-07-01 03:36 G 9359192.52 9359192.65 9359192.78 0.1926 0.0040

Jupiter 20913-01-20 09:21 G 9359395.80 9359395.89 9359395.99 0.0501 0.0356

Jupiter 20913-04-19 19:40 G 9359485.19 9359485.32 9359485.45 0.0498 0.0214

Moon 20913-06-13 00:57 G 9359539.48 9359539.54 9359539.59 0.2645 0.2425

Earth 20913-06-13 01:40 G 9359539.50 9359539.57 9359539.63 0.2651 0.2259 *

Mars 20915-03-27 17:02 G 9360192.10 9360192.21 9360192.33 0.1617 0.0910

Moon 20915-12-12 09:21 G 9360451.86 9360451.89 9360451.93 0.2679 0.2542

Earth 20915-12-12 10:19 G 9360451.87 9360451.93 9360451.98 0.2681 0.2360 *

Uranus 20917-07-19 02:38 G 9361036.55 9361036.61 9361036.69 0.0133 0.0120

Uranus 20917-10-15 07:12 G 9361124.71 9361124.80 9361124.92 0.0133 0.0102

Uranus 20918-01-11 12:14 G 9361212.89 9361213.01 9361213.14 0.0133 0.0081

Uranus 20918-04-09 16:48 G 9361301.07 9361301.20 9361301.35 0.0133 0.0062

Uranus 20918-07-06 21:36 G 9361389.25 9361389.40 9361389.55 0.0133 0.0043

Uranus 20918-10-03 02:09 G 9361477.43 9361477.59 9361477.75 0.0133 0.0023

Uranus 20918-12-30 06:43 G 9361565.62 9361565.78 9361565.94 0.0133 0.0004

Uranus 20919-03-28 11:16 G 9361653.81 9361653.97 9361654.13 0.0133 0.0015

Jupiter 20919-06-21 10:19 G 9361738.78 9361738.93 9361739.09 0.0528 0.0124

Uranus 20919-06-24 15:50 G 9361742.00 9361742.16 9361742.31 0.0133 0.0033

Uranus 20919-09-20 20:09 G 9361830.20 9361830.34 9361830.49 0.0133 0.0052

Uranus 20919-12-18 00:28 G 9361918.39 9361918.52 9361918.66 0.0133 0.0070

Uranus 20920-03-15 04:48 G 9362006.59 9362006.70 9362006.82 0.0133 0.0089

Uranus 20920-06-11 09:07 G 9362094.80 9362094.88 9362094.98 0.0133 0.0107

Uranus 20920-09-07 13:26 G 9362183.02 9362183.06 9362183.12 0.0133 0.0125

Mars 20921-11-21 06:57 G 9362622.69 9362622.79 9362622.89 0.1920 0.1262

Saturn 20922-06-13 11:16 G 9362826.91 9362826.97 9362827.05 0.0274 0.0238

Saturn 20922-09-10 00:43 G 9362915.41 9362915.53 9362915.66 0.0274 0.0140

Saturn 20922-12-07 14:38 G 9363003.96 9363004.11 9363004.25 0.0275 0.0040

Saturn 20923-03-06 04:33 G 9363092.54 9363092.69 9363092.84 0.0275 0.0064

Saturn 20923-06-02 18:43 G 9363181.17 9363181.28 9363181.41 0.0275 0.0170

Mars 20924-08-17 00:57 G 9363622.54 9363622.54 9363622.54 0.1621 0.1620

Jupiter 20924-11-08 12:28 G 9363706.01 9363706.02 9363706.04 0.0502 0.0498

Jupiter 20925-02-05 22:33 G 9363795.30 9363795.44 9363795.59 0.0499 0.0070

Moon 20926-06-16 00:00 G 9364290.37 9364290.50 9364290.64 0.2648 0.0301

Earth 20926-06-16 01:12 G 9364290.41 9364290.55 9364290.68 0.2651 0.0232 *

Mars 20926-07-23 18:14 G 9364328.19 9364328.26 9364328.34 0.1606 0.1366

Moon 20928-12-14 06:00 G 9365202.63 9365202.75 9365202.86 0.2683 0.0738

Earth 20928-12-14 06:43 G 9365202.67 9365202.78 9365202.90 0.2681 0.0671 *

Jupiter 20931-04-09 09:07 G 9366048.75 9366048.88 9366049.00 0.0527 0.0329

Jupiter 20931-07-08 07:40 G 9366138.73 9366138.82 9366138.91 0.0530 0.0424

Venus 20934-08-27 08:38 G 9367284.78 9367284.86 9367284.93 0.3691 0.2859

Mars 20935-12-14 01:55 G 9367758.45 9367758.58 9367758.71 0.1610 0.0633

Saturn 20936-10-22 19:26 G 9368072.27 9368072.31 9368072.36 0.0286 0.0273

Jupiter 20936-11-25 01:40 G 9368105.43 9368105.57 9368105.71 0.0500 0.0071

Saturn 20937-01-19 13:40 G 9368160.93 9368161.07 9368161.21 0.0285 0.0144

Saturn 20937-04-18 07:12 G 9368249.64 9368249.80 9368249.96 0.0285 0.0019

Saturn 20937-07-16 00:14 G 9368338.36 9368338.51 9368338.66 0.0285 0.0103

Saturn 20937-10-12 16:48 G 9368427.11 9368427.20 9368427.30 0.0284 0.0221

Moon 20939-06-18 23:31 G 9369041.37 9369041.48 9369041.58 0.2654 0.1577

Earth 20939-06-19 00:28 G 9369041.42 9369041.52 9369041.62 0.2651 0.1743 *

Venus 20940-03-12 04:48 G 9369308.58 9369308.70 9369308.81 0.3692 0.1106

Venus 20941-09-22 22:19 G 9369868.36 9369868.43 9369868.50 0.3680 0.2918

Moon 20941-12-17 03:21 G 9369953.53 9369953.64 9369953.75 0.2687 0.1017

Earth 20941-12-17 03:36 G 9369953.54 9369953.65 9369953.76 0.2681 0.1083 *

Mars 20942-08-10 00:00 G 9370189.41 9370189.50 9370189.59 0.1931 0.1437

Jupiter 20943-01-26 08:24 G 9370358.84 9370358.85 9370358.87 0.0526 0.0523

Jupiter 20943-04-26 07:40 G 9370448.68 9370448.82 9370448.96 0.0529 0.0237

Mars 20945-05-05 09:36 G 9371188.76 9371188.90 9371189.04 0.1613 0.0091

Venus 20945-09-26 00:28 G 9371332.41 9371332.52 9371332.64 0.3692 0.0615

Venus 20947-04-08 19:26 G 9371892.19 9371892.31 9371892.43 0.3679 0.1108

Jupiter 20948-09-13 05:02 G 9372415.58 9372415.71 9372415.84 0.0501 0.0208

Jupiter 20948-12-11 15:36 G 9372505.05 9372505.15 9372505.25 0.0498 0.0367

Venus 20951-04-11 19:55 G 9373356.24 9373356.33 9373356.43 0.3693 0.2216

Saturn 20951-10-31 13:40 G 9373559.04 9373559.07 9373559.11 0.0274 0.0263

Mars 20951-12-31 03:36 G 9373619.52 9373619.65 9373619.78 0.1926 0.0161

Saturn 20952-01-28 02:52 G 9373647.51 9373647.62 9373647.74 0.0274 0.0167

Saturn 20952-04-25 16:33 G 9373736.04 9373736.19 9373736.33 0.0274 0.0067

Saturn 20952-07-23 06:28 G 9373824.62 9373824.77 9373824.92 0.0274 0.0036

Saturn 20952-10-19 20:38 G 9373913.23 9373913.36 9373913.49 0.0275 0.0140

Venus 20952-10-22 17:02 G 9373916.08 9373916.21 9373916.33 0.3678 0.0793

Saturn 20953-01-16 11:02 G 9374001.90 9374001.96 9374002.03 0.0275 0.0247

Mars 20954-09-25 17:16 G 9374619.10 9374619.22 9374619.34 0.1617 0.0806

Jupiter 20955-02-12 07:40 G 9374758.66 9374758.82 9374758.98 0.0529 0.0052

Venus 20958-05-08 14:52 G 9375940.04 9375940.12 9375940.20 0.3678 0.2779

Moon 20959-06-14 06:28 G 9376341.67 9376341.77 9376341.86 0.2646 0.1853

Earth 20959-06-14 07:12 G 9376341.71 9376341.80 9376341.90 0.2651 0.1830 *

Uranus 20959-07-18 04:19 G 9376375.63 9376375.68 9376375.73 0.0145 0.0137

Uranus 20959-10-14 09:21 G 9376463.80 9376463.89 9376463.98 0.0145 0.0114

Uranus 20960-01-10 14:24 G 9376551.99 9376552.10 9376552.22 0.0145 0.0090

Uranus 20960-04-07 19:40 G 9376640.19 9376640.32 9376640.46 0.0145 0.0067

Jupiter 20960-07-02 08:24 G 9376725.75 9376725.85 9376725.95 0.0501 0.0345

Uranus 20960-07-05 00:57 G 9376728.39 9376728.54 9376728.69 0.0145 0.0043

Jupiter 20960-09-29 18:43 G 9376815.15 9376815.28 9376815.41 0.0498 0.0226

Uranus 20960-10-01 06:14 G 9376816.61 9376816.76 9376816.91 0.0145 0.0019

Uranus 20960-12-28 11:31 G 9376904.83 9376904.98 9376905.14 0.0145 0.0006

Uranus 20961-03-26 16:48 G 9376993.05 9376993.20 9376993.36 0.0145 0.0030

Mars 20961-05-22 07:12 G 9377049.69 9377049.80 9377049.91 0.1921 0.1127

Uranus 20961-06-22 22:19 G 9377081.29 9377081.43 9377081.58 0.0145 0.0054

Uranus 20961-09-19 03:36 G 9377169.53 9377169.65 9377169.79 0.0145 0.0080

Moon 20961-12-12 14:24 G 9377254.03 9377254.10 9377254.18 0.2680 0.2068

Earth 20961-12-12 15:21 G 9377254.06 9377254.14 9377254.22 0.2681 0.2016 *

Uranus 20961-12-16 09:07 G 9377257.78 9377257.88 9377258.00 0.0145 0.0104

Uranus 20962-03-14 14:38 G 9377346.05 9377346.11 9377346.19 0.0145 0.0129

Mars 20964-02-16 01:12 G 9378049.51 9378049.55 9378049.60 0.1621 0.1515

Mars 20966-01-21 18:28 G 9378755.22 9378755.27 9378755.33 0.1606 0.1476

Saturn 20966-06-08 12:28 G 9378892.90 9378893.02 9378893.14 0.0285 0.0191

Saturn 20966-09-05 06:14 G 9378981.60 9378981.76 9378981.92 0.0285 0.0065

Jupiter 20966-12-01 08:09 G 9379068.69 9379068.84 9379069.00 0.0528 0.0127

Saturn 20966-12-02 23:31 G 9379070.32 9379070.48 9379070.63 0.0284 0.0058

Saturn 20967-03-01 16:04 G 9379159.06 9379159.17 9379159.30 0.0284 0.0178

Pluto 20971-10-18 06:00 G 9380850.72 9380850.75 9380850.79 0.0070 0.0066

Pluto 20972-01-14 06:28 G 9380938.71 9380938.77 9380938.85 0.0070 0.0057

Pluto 20972-04-11 06:57 G 9381026.71 9381026.79 9381026.90 0.0070 0.0049

Jupiter 20972-04-20 11:16 G 9381035.94 9381035.97 9381036.00 0.0502 0.0490

Moon 20972-06-16 05:45 G 9381092.60 9381092.74 9381092.87 0.2650 0.0045

Earth 20972-06-16 06:43 G 9381092.65 9381092.78 9381092.92 0.2651 0.0198 *

Pluto 20972-07-08 07:55 G 9381114.72 9381114.83 9381114.94 0.0070 0.0039

Jupiter 20972-07-18 21:07 G 9381125.24 9381125.38 9381125.53 0.0499 0.0077

Pluto 20972-10-04 08:24 G 9381202.74 9381202.85 9381202.98 0.0071 0.0029

Pluto 20972-12-31 09:07 G 9381290.76 9381290.88 9381291.01 0.0071 0.0020

Pluto 20973-03-29 09:36 G 9381378.78 9381378.90 9381379.04 0.0071 0.0011

Pluto 20973-06-25 10:19 G 9381466.80 9381466.93 9381467.07 0.0071 0.0002

Pluto 20973-09-21 11:02 G 9381554.83 9381554.96 9381555.09 0.0071 0.0009

Pluto 20973-12-18 11:31 G 9381642.86 9381642.98 9381643.11 0.0071 0.0019

Pluto 20974-03-16 12:14 G 9381730.89 9381731.01 9381731.13 0.0071 0.0028

Pluto 20974-06-12 12:43 G 9381818.93 9381819.03 9381819.15 0.0071 0.0039

Pluto 20974-09-08 13:26 G 9381906.97 9381907.06 9381907.16 0.0071 0.0048

Pluto 20974-12-05 13:55 G 9381995.02 9381995.08 9381995.17 0.0072 0.0059

Moon 20974-12-15 11:16 G 9382004.85 9382004.97 9382005.09 0.2684 0.0483

Earth 20974-12-15 12:00 G 9382004.88 9382005.00 9382005.12 0.2681 0.0312 *

Pluto 20975-03-03 14:38 G 9382083.09 9382083.11 9382083.16 0.0072 0.0069

Mars 20975-06-14 02:09 G 9382185.47 9382185.59 9382185.71 0.1609 0.0745

Neptune 20975-08-02 16:19 G 9382235.16 9382235.18 9382235.23 0.0089 0.0087

Neptune 20975-10-29 18:57 G 9382323.23 9382323.29 9382323.38 0.0089 0.0078

Neptune 20976-01-25 21:36 G 9382411.31 9382411.40 9382411.51 0.0089 0.0069

Neptune 20976-04-23 00:14 G 9382499.39 9382499.51 9382499.64 0.0089 0.0061

Neptune 20976-07-20 02:38 G 9382587.48 9382587.61 9382587.75 0.0089 0.0052

Neptune 20976-10-16 05:02 G 9382675.58 9382675.71 9382675.87 0.0089 0.0044

Neptune 20977-01-12 07:26 G 9382763.67 9382763.81 9382763.98 0.0089 0.0035

Neptune 20977-04-10 10:04 G 9382851.77 9382851.92 9382852.08 0.0089 0.0026

Neptune 20977-07-07 12:43 G 9382939.87 9382940.03 9382940.19 0.0089 0.0018

Neptune 20977-10-03 15:07 G 9383027.97 9383028.13 9383028.29 0.0089 0.0009

Neptune 20977-12-30 17:31 G 9383116.07 9383116.23 9383116.40 0.0089 0.0001

Neptune 20978-03-28 19:55 G 9383204.17 9383204.33 9383204.50 0.0089 0.0008

Neptune 20978-06-24 22:19 G 9383292.27 9383292.43 9383292.59 0.0089 0.0016

Jupiter 20978-09-19 08:09 G 9383378.71 9383378.84 9383378.97 0.0527 0.0313

Neptune 20978-09-21 00:28 G 9383380.38 9383380.52 9383380.69 0.0089 0.0026

Neptune 20978-12-18 02:52 G 9383468.48 9383468.62 9383468.78 0.0089 0.0034

Jupiter 20978-12-18 06:43 G 9383468.70 9383468.78 9383468.87 0.0531 0.0442 *

Neptune 20979-03-16 05:31 G 9383556.59 9383556.73 9383556.87 0.0089 0.0042

Neptune 20979-06-12 07:40 G 9383644.69 9383644.82 9383644.96 0.0089 0.0050

Neptune 20979-09-08 09:50 G 9383732.80 9383732.91 9383733.05 0.0089 0.0059

Neptune 20979-12-05 12:14 G 9383820.92 9383821.01 9383821.13 0.0089 0.0067

Neptune 20980-03-02 14:38 G 9383909.03 9383909.11 9383909.21 0.0089 0.0075

Neptune 20980-05-29 17:02 G 9383997.16 9383997.21 9383997.27 0.0089 0.0083

Saturn 20981-06-16 04:04 G 9384379.58 9384379.67 9384379.77 0.0274 0.0199

Saturn 20981-09-12 17:31 G 9384468.10 9384468.23 9384468.37 0.0274 0.0101

Saturn 20981-12-10 07:26 G 9384556.66 9384556.81 9384556.96 0.0275 0.0002

Mars 20982-02-08 00:14 G 9384616.43 9384616.51 9384616.58 0.1931 0.1563

Saturn 20982-03-08 21:36 G 9384645.26 9384645.40 9384645.54 0.0275 0.0106

Saturn 20982-06-05 11:45 G 9384733.91 9384733.99 9384734.10 0.0275 0.0214

Jupiter 20984-05-07 00:14 G 9385435.37 9385435.51 9385435.65 0.0500 0.0068

Mars 20984-11-03 09:50 G 9385615.77 9385615.91 9385616.05 0.1613 0.0037

Moon 20985-06-19 05:02 G 9385843.63 9385843.71 9385843.79 0.2655 0.2075

Earth 20985-06-19 06:00 G 9385843.67 9385843.75 9385843.82 0.2651 0.2138 *

Moon 20987-12-18 08:38 G 9386755.76 9386755.86 9386755.96 0.2688 0.1465

Earth 20987-12-18 08:52 G 9386755.77 9386755.87 9386755.97 0.2681 0.1443 *

Jupiter 20990-07-08 06:43 G 9387688.76 9387688.78 9387688.81 0.0526 0.0518

Jupiter 20990-10-06 06:00 G 9387778.61 9387778.75 9387778.89 0.0529 0.0242

Venus 20991-04-03 07:12 G 9387957.71 9387957.80 9387957.89 0.3691 0.2301

Mars 20991-07-01 04:04 G 9388046.54 9388046.67 9388046.80 0.1926 0.0306

Mars 20994-03-26 17:31 G 9389046.10 9389046.23 9389046.35 0.1617 0.0704

Saturn 20995-10-26 14:38 G 9389625.01 9389625.11 9389625.22 0.0286 0.0217

Saturn 20996-01-23 08:38 G 9389713.71 9389713.86 9389714.01 0.0285 0.0089

Jupiter 20996-02-24 03:21 G 9389745.51 9389745.64 9389745.77 0.0501 0.0208

Saturn 20996-04-21 01:55 G 9389802.43 9389802.58 9389802.74 0.0285 0.0035

Jupiter	**20996-05-23 13:55**	**G**	**9389834.98**	**9389835.08**	**9389835.18**	**0.0498**	**0.0368**	
Saturn	**20996-07-18 18:43**	**G**	**9389891.16**	**9389891.28**	**9389891.42**	**0.0285**	**0.0156**	
Saturn	**20996-10-15 11:16**	**G**	**9389979.93**	**9389979.97**	**9389980.02**	**0.0284**	**0.0272**	
Venus	**20996-10-17 03:21**	**G**	**9389981.52**	**9389981.64**	**9389981.76**	**0.3692**	**0.0549**	
Venus	**20998-04-29 21:21**	**G**	**9390541.29**	**9390541.39**	**9390541.48**	**0.3679**	**0.2351**	
Mars	**21000-11-21 07:26**	**G**	**9391476.70**	**9391476.81**	**9391476.93**	**0.1920**	**0.0989**	

22ND MILLENNIUM CE

This is a list of transits of Mercury in the 22nd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	**21001-08-09 10:04**	**G**	**9391737.84**	**9391737.92**	**9391738.00**	**0.0133**	**0.0114**	
Uranus	**21001-11-05 14:38**	**G**	**9391826.01**	**9391826.11**	**9391826.23**	**0.0133**	**0.0095**	
Uranus	**21002-02-01 19:26**	**G**	**9391914.19**	**9391914.31**	**9391914.45**	**0.0133**	**0.0075**	
Uranus	**21002-05-01 00:14**	**G**	**9392002.37**	**9392002.51**	**9392002.66**	**0.0133**	**0.0056**	
Venus	**21002-05-03 23:02**	**G**	**9392005.35**	**9392005.46**	**9392005.57**	**0.3692**	**0.1122**	
Jupiter	**21002-07-26 05:45**	**G**	**9392088.59**	**9392088.74**	**9392088.90**	**0.0528**	**0.0055**	
Uranus	**21002-07-28 04:48**	**G**	**9392090.55**	**9392090.70**	**9392090.86**	**0.0133**	**0.0037**	
Uranus	**21002-10-24 09:21**	**G**	**9392178.74**	**9392178.89**	**9392179.05**	**0.0133**	**0.0018**	
Uranus	**21003-01-20 14:09**	**G**	**9392266.93**	**9392267.09**	**9392267.24**	**0.0133**	**0.0004**	
Uranus	**21003-04-18 18:28**	**G**	**9392355.12**	**9392355.27**	**9392355.43**	**0.0133**	**0.0021**	
Uranus	**21003-07-15 23:02**	**G**	**9392443.31**	**9392443.46**	**9392443.61**	**0.0133**	**0.0039**	
Mars	**21003-08-18 01:26**	**G**	**9392476.49**	**9392476.56**	**9392476.62**	**0.1621**	**0.1415**	
Uranus	**21003-10-12 03:21**	**G**	**9392531.51**	**9392531.64**	**9392531.79**	**0.0133**	**0.0058**	

Venus 21003-11-14 18:28 G 9392565.15 9392565.27 9392565.39 0.3679 0.0516

Uranus 21004-01-08 07:55 G 9392619.70 9392619.83 9392619.96 0.0133 0.0076

Uranus 21004-04-05 12:14 G 9392707.91 9392708.01 9392708.12 0.0133 0.0094

Uranus 21004-07-02 16:19 G 9392796.11 9392796.18 9392796.27 0.0133 0.0113

Uranus 21004-09-28 20:38 G 9392884.35 9392884.36 9392884.40 0.0133 0.0131

Moon 21005-06-15 12:00 G 9393143.90 9393144.00 9393144.11 0.2646 0.1585

Earth 21005-06-15 12:57 G 9393143.92 9393144.04 9393144.15 0.2651 0.1407 *

Mars 21005-07-23 18:43 G 9393182.26 9393182.28 9393182.30 0.1606 0.1583

Venus 21007-11-17 18:28 G 9394029.19 9394029.27 9394029.35 0.3693 0.2728

Jupiter 21007-12-14 06:43 G 9394055.68 9394055.78 9394055.88 0.0502 0.0344

Moon 21007-12-14 19:40 G 9394056.23 9394056.32 9394056.41 0.2680 0.1865

Earth 21007-12-14 20:38 G 9394056.26 9394056.36 9394056.45 0.2681 0.1667 *

Jupiter 21008-03-12 17:02 G 9394145.08 9394145.21 9394145.34 0.0499 0.0228

Venus 21009-05-30 16:04 G 9394589.06 9394589.17 9394589.29 0.3678 0.1414

Saturn 21010-11-04 06:14 G 9395111.69 9395111.76 9395111.85 0.0274 0.0225

Saturn 21011-01-31 19:40 G 9395200.19 9395200.32 9395200.45 0.0274 0.0127

Saturn 21011-04-30 09:21 G 9395288.74 9395288.89 9395289.04 0.0274 0.0027

Saturn 21011-07-27 23:16 G 9395377.33 9395377.47 9395377.62 0.0274 0.0078

Saturn 21011-10-24 13:40 G 9395465.96 9395466.07 9395466.19 0.0275 0.0183

Jupiter 21014-05-14 05:45 G 9396398.58 9396398.74 9396398.89 0.0528 0.0135

Mars 21014-12-14 02:24 G 9396612.48 9396612.60 9396612.72 0.1610 0.0850

Venus 21014-12-14 14:09 G 9396613.05 9396613.09 9396613.13 0.3678 0.3438

Moon 21018-06-18 11:16 G 9397894.84 9397894.97 9397895.10 0.2652 0.0544

Earth 21018-06-18 12:28 G 9397894.89 9397895.02 9397895.15 0.2651 0.0606 *

Jupiter 21019-10-02 10:04 G 9398365.89 9398365.92 9398365.96 0.0502 0.0480

Jupiter 21019-12-30 20:09 G 9398455.20 9398455.34 9398455.48 0.0499 0.0088

Moon 21020-12-16 16:33 G 9398807.07 9398807.19 9398807.31 0.2685 0.0026

Earth 21020-12-16 17:16 G 9398807.09 9398807.22 9398807.34 0.2681 0.0073 *

Mars 21021-08-10 00:28 G 9399043.46 9399043.52 9399043.58 0.1932 0.1698

Mars 21024-05-05 10:04 G 9400042.78 9400042.92 9400043.06 0.1613 0.0128

Saturn 21025-03-15 13:26 G 9400357.01 9400357.06 9400357.13 0.0285 0.0264

Saturn 21025-06-12 07:26 G 9400445.67 9400445.81 9400445.96 0.0285 0.0136

Saturn 21025-09-09 01:12 G 9400534.39 9400534.55 9400534.71 0.0284 0.0012

Saturn 21025-12-06 18:14 G 9400623.11 9400623.26 9400623.40 0.0284 0.0111

Jupiter 21026-03-02 06:00 G 9400708.63 9400708.75 9400708.88 0.0527 0.0316

Saturn 21026-03-05 10:48 G 9400711.86 9400711.95 9400712.04 0.0284 0.0229

Jupiter 21026-05-31 04:48 G 9400798.62 9400798.70 9400798.79 0.0531 0.0439

Mars 21030-12-31 04:19 G 9402473.55 9402473.68 9402473.81 0.1926 0.0444

Moon 21031-06-21 10:48 G 9402645.89 9402645.95 9402646.00 0.2655 0.2377

Earth 21031-06-21 11:31 G 9402645.95 9402645.98 9402646.01 0.2651 0.2544 *

Jupiter 21031-10-18 22:48 G 9402765.31 9402765.45 9402765.60 0.0500 0.0061

Mars 21033-09-25 17:45 G 9403473.11 9403473.24 9403473.37 0.1617 0.0595

Moon 21033-12-19 13:55 G 9403557.99 9403558.08 9403558.17 0.2687 0.1735

Earth 21033-12-19 14:09 G 9403558.00 9403558.09 9403558.18 0.2680 0.1808 *

Jupiter 21037-12-19 06:00 G 9405018.70 9405018.75 9405018.79 0.0526 0.0501

Jupiter 21038-03-19 05:16 G 9405108.58 9405108.72 9405108.85 0.0530 0.0260

Saturn 21040-03-23 07:12 G 9405843.76 9405843.80 9405843.85 0.0274 0.0260

Mars 21040-05-22 07:40 G 9405903.70 9405903.82 9405903.94 0.1921 0.0858

Saturn 21040-06-19 20:38 G 9405932.24 9405932.36 9405932.47 0.0274 0.0163

Saturn 21040-09-16 10:04 G 9406020.78 9406020.92 9406021.07 0.0274 0.0063

Saturn 21040-12-14 00:00 G 9406109.35 9406109.50 9406109.65 0.0275 0.0040

Saturn 21041-03-12 14:09 G 9406197.96 9406198.09 9406198.22 0.0275 0.0145

Saturn 21041-06-09 04:48 G 9406286.64 9406286.70 9406286.76 0.0275 0.0253

Venus 21042-04-25 09:36 G 9406606.87 9406606.90 9406606.93 0.3691 0.3537

Mars 21043-02-16 01:26 G 9406903.49 9406903.56 9406903.64 0.1621 0.1314

Jupiter 21043-08-07 01:55 G 9407075.45 9407075.58 9407075.71 0.0501 0.0201

Uranus 21043-08-08 11:16 G 9407076.91 9407076.97 9407077.04 0.0145 0.0131

Jupiter 21043-11-04 12:28 G 9407164.93 9407165.02 9407165.12 0.0498 0.0373

Uranus 21043-11-04 16:19 G 9407165.09 9407165.18 9407165.29 0.0145 0.0109 *

Uranus 21044-01-31 21:21 G 9407253.28 9407253.39 9407253.52 0.0145 0.0086

Uranus 21044-04-29 02:52 G 9407341.48 9407341.62 9407341.76 0.0145 0.0061

Uranus 21044-07-26 07:55 G 9407429.69 9407429.83 9407429.98 0.0145 0.0038

Uranus 21044-10-22 13:12 G 9407517.90 9407518.05 9407518.21 0.0145 0.0014

Uranus 21045-01-18 18:43 G 9407606.12 9407606.28 9407606.43 0.0145 0.0011

Uranus 21045-04-17 00:00 G 9407694.35 9407694.50 9407694.65 0.0145 0.0035

Uranus 21045-07-14 05:31 G 9407782.58 9407782.73 9407782.87 0.0145 0.0060

Uranus 21045-10-10 10:48 G 9407870.83 9407870.95 9407871.08 0.0145 0.0084

Uranus 21046-01-06 16:19 G 9407959.08 9407959.18 9407959.29 0.0145 0.0109

Uranus 21046-04-04 21:50 G 9408047.36 9408047.41 9408047.47 0.0145 0.0134

Venus 21047-11-09 06:00 G 9408630.64 9408630.75 9408630.85 0.3691 0.1737

Venus 21049-05-21 23:16 G 9409190.44 9409190.47 9409190.50 0.3680 0.3546

Jupiter 21050-01-05 04:19 G 9409418.53 9409418.68 9409418.84 0.0528 0.0064

Moon 21051-06-16 17:45 G 9409946.11 9409946.24 9409946.36 0.2647 0.1060

Earth 21051-06-16 18:28 G 9409946.15 9409946.27 9409946.40 0.2651 0.0992 *

Venus 21053-05-25 01:55 G 9410654.46 9410654.58 9410654.70 0.3692 0.0024

Moon 21053-12-15 00:57 G 9410858.43 9410858.54 9410858.64 0.2681 0.1386

Earth 21053-12-15 01:40 G 9410858.47 9410858.57 9410858.68 0.2681 0.1321 *

Mars 21054-06-14 02:38 G 9411039.49 9411039.61 9411039.72 0.1609 0.0959

Saturn 21054-10-30 09:07 G 9411177.75 9411177.88 9411178.02 0.0286 0.0166

Venus 21054-12-05 20:09 G 9411214.24 9411214.34 9411214.45 0.3679 0.1776

Saturn 21055-01-27 02:52 G 9411266.46 9411266.62 9411266.78 0.0285 0.0039

Saturn 21055-04-25 20:09 G 9411355.19 9411355.34 9411355.49 0.0285 0.0084

Jupiter 21055-05-26 05:02 G 9411385.61 9411385.71 9411385.81 0.0502 0.0342

Saturn 21055-07-23 12:57 G 9411443.93 9411444.04 9411444.15 0.0285 0.0203

Jupiter 21055-08-23 15:21 G 9411475.01 9411475.14 9411475.27 0.0499 0.0231

Neptune 21056-11-04 02:52 G 9411913.58 9411913.62 9411913.69 0.0088 0.0082

Neptune 21057-01-31 04:48 G 9412001.63 9412001.70 9412001.79 0.0088 0.0074

Neptune 21057-04-29 06:43 G 9412089.69 9412089.78 9412089.88 0.0088 0.0067

Neptune 21057-07-26 08:24 G 9412177.75 9412177.85 9412177.97 0.0088 0.0060

Pluto 21057-09-02 06:43 G 9412215.72 9412215.78 9412215.86 0.0074 0.0069

Neptune 21057-10-22 10:19 G 9412265.82 9412265.93 9412266.06 0.0088 0.0052

Pluto 21057-11-29 09:07 G 9412303.76 9412303.88 9412304.03 0.0074 0.0053

Neptune 21058-01-18 12:14 G 9412353.88 9412354.01 9412354.14 0.0088 0.0045

Pluto 21058-02-25 11:45 G 9412391.83 9412391.99 9412392.17 0.0073 0.0037

Neptune 21058-04-16 13:55 G 9412441.95 9412442.08 9412442.23 0.0088 0.0038

Pluto 21058-05-24 14:24 G 9412479.92 9412480.10 9412480.29 0.0073 0.0021

Neptune 21058-07-13 15:50 G 9412530.03 9412530.16 9412530.31 0.0088 0.0030

Pluto 21058-08-20 16:48 G 9412568.01 9412568.20 9412568.41 0.0073 0.0006

Neptune 21058-10-09 17:45 G 9412618.10 9412618.24 9412618.39 0.0088 0.0022

Pluto 21058-11-16 19:26 G 9412656.12 9412656.31 9412656.51 0.0073 0.0011

Venus 21058-12-08 21:36 G 9412678.29 9412678.40 9412678.50 0.3692 0.1649

Neptune 21059-01-05 19:40 G 9412706.17 9412706.32 9412706.47 0.0088 0.0015

Pluto 21059-02-12 21:36 G 9412744.23 9412744.40 9412744.60 0.0073 0.0027

Neptune 21059-04-03 21:36 G 9412794.25 9412794.40 9412794.55 0.0088 0.0007

Pluto 21059-05-12 00:14 G 9412832.36 9412832.51 9412832.67 0.0073 0.0042

Neptune 21059-06-30 23:31 G 9412882.33 9412882.48 9412882.63 0.0088 0.0001

Pluto 21059-08-08 02:09 G 9412920.50 9412920.59 9412920.73 0.0073 0.0058

Neptune 21059-09-27 01:12 G 9412970.40 9412970.55 9412970.71 0.0088 0.0008

Neptune 21059-12-24 03:07 G 9413058.48 9413058.63 9413058.78 0.0088 0.0015

Neptune 21060-03-21 05:02 G 9413146.57 9413146.71 9413146.86 0.0088 0.0023

Neptune 21060-06-17 06:57 G 9413234.65 9413234.79 9413234.94 0.0088 0.0031

Venus 21060-06-20 17:31 G 9413238.11 9413238.23 9413238.36 0.3679 0.0106

Neptune 21060-09-13 08:52 G 9413322.74 9413322.87 9413323.01 0.0088 0.0038

Neptune 21060-12-10 10:33 G 9413410.82 9413410.94 9413411.08 0.0088 0.0046

Mars 21061-02-08 00:43 G 9413470.49 9413470.53 9413470.56 0.1931 0.1833

Neptune 21061-03-08 12:43 G 9413498.91 9413499.03 9413499.16 0.0088 0.0053

Neptune 21061-06-04 14:38 G 9413587.01 9413587.11 9413587.23 0.0088 0.0061

Neptune 21061-08-31 16:19 G 9413675.10 9413675.18 9413675.29 0.0088 0.0069

Jupiter 21061-10-24 04:04 G 9413728.52 9413728.67 9413728.83 0.0527 0.0129

Neptune 21061-11-27 18:43 G 9413763.21 9413763.28 9413763.35 0.0088 0.0077

Neptune 21062-02-23 20:24 G 9413851.32 9413851.35 9413851.40 0.0088 0.0085

Mars 21063-11-04 10:19 G 9414469.79 9414469.93 9414470.06 0.1613 0.0235

Moon 21064-06-18 16:48 G 9414697.08 9414697.20 9414697.33 0.2652 0.0790

Earth 21064-06-18 18:00 G 9414697.13 9414697.25 9414697.37 0.2651 0.1013 *

Venus 21064-06-23 17:02 G 9414702.15 9414702.21 9414702.26 0.3693 0.3242

Venus 21066-01-04 15:21 G 9415262.03 9415262.14 9415262.24 0.3678 0.2054

Moon 21066-12-17 21:50 G 9415609.29 9415609.41 9415609.53 0.2686 0.0259

Earth 21066-12-17 22:19 G 9415609.31 9415609.43 9415609.56 0.2681 0.0410 *

Jupiter 21067-03-14 08:38 G 9415695.82 9415695.86 9415695.90 0.0503 0.0477

Jupiter 21067-06-11 18:28 G 9415785.13 9415785.27 9415785.42 0.0500 0.0093

Saturn 21069-11-06 22:48 G 9416664.35 9416664.45 9416664.56 0.0273 0.0188

Saturn 21070-02-03 12:14 G 9416752.87 9416753.01 9416753.15 0.0274 0.0089

Saturn 21070-05-03 02:09 G 9416841.44 9416841.59 9416841.74 0.0274 0.0014

Mars 21070-07-01 04:19 G 9416900.56 9416900.68 9416900.81 0.1927 0.0567

Saturn 21070-07-30 16:04 G 9416930.04 9416930.17 9416930.31 0.0274 0.0116

Saturn 21070-10-27 06:28 G 9417018.69 9417018.77 9417018.86 0.0275 0.0223

Mars 21073-03-26 18:00 G 9417900.11 9417900.25 9417900.38 0.1617 0.0493

Jupiter 21073-08-12 03:50 G 9418038.53 9418038.66 9418038.78 0.0527 0.0320

Jupiter 21073-11-10 02:38 G 9418128.52 9418128.61 9418128.69 0.0530 0.0435

Jupiter 21079-03-30 21:50 G 9420095.27 9420095.41 9420095.56 0.0500 0.0047

Mars 21079-11-21 08:09 G 9420330.71 9420330.84 9420330.96 0.1921 0.0711

Moon 21079-12-20 19:26 G 9420360.24 9420360.31 9420360.37 0.2687 0.2246

Earth 21079-12-20 19:26 G 9420360.24 9420360.31 9420360.38 0.2680 0.2172 *

Mars 21082-08-17 01:55 G 9421330.49 9421330.58 9421330.67 0.1621 0.1203

Saturn 21084-03-18 07:55 G 9421909.73 9421909.83 9421909.94 0.0285 0.0213

Earth 21084-06-14 00:28 G 9421997.51 9421997.52 9421997.53 0.2651 0.2632

Saturn 21084-06-15 01:55 G 9421998.42 9421998.58 9421998.73 0.0285 0.0086

Saturn 21084-09-11 19:12 G 9422087.15 9422087.30 9422087.46 0.0284 0.0039

Saturn 21084-12-09 12:00 G 9422175.88 9422176.00 9422176.14 0.0284 0.0160

Saturn 21085-03-08 04:33 G 9422264.66 9422264.69 9422264.73 0.0284 0.0276

Jupiter 21085-05-31 03:50 G 9422348.62 9422348.66 9422348.71 0.0526 0.0502

Uranus 21085-06-02 12:14 G 9422350.98 9422351.01 9422351.05 0.0133 0.0129

Jupiter 21085-08-29 03:21 G 9422438.50 9422438.64 9422438.77 0.0530 0.0260

Uranus 21085-08-29 17:02 G 9422439.13 9422439.21 9422439.31 0.0133 0.0109

Uranus 21085-11-25 21:36 G 9422527.30 9422527.40 9422527.53 0.0133 0.0090

Uranus 21086-02-22 02:38 G 9422615.48 9422615.61 9422615.75 0.0133 0.0070

Uranus 21086-05-21 07:12 G 9422703.66 9422703.80 9422703.95 0.0133 0.0051

Uranus 21086-08-17 11:45 G 9422791.84 9422791.99 9422792.15 0.0133 0.0032

Uranus 21086-11-13 16:33 G 9422880.03 9422880.19 9422880.35 0.0133 0.0012

Earth 21086-12-13 10:33 G 9422909.92 9422909.94 9422909.95 0.2681 0.2645

Uranus 21087-02-09 21:07 G 9422968.22 9422968.38 9422968.54 0.0133 0.0007

Uranus 21087-05-09 01:40 G 9423056.42 9423056.57 9423056.73 0.0133 0.0025

Uranus 21087-08-05 06:14 G 9423144.61 9423144.76 9423144.91 0.0133 0.0044

Uranus 21087-11-01 10:33 G 9423232.81 9423232.94 9423233.08 0.0133 0.0063

Uranus 21088-01-28 14:52 G 9423321.00 9423321.12 9423321.25 0.0133 0.0081

Uranus 21088-04-25 19:26 G 9423409.21 9423409.31 9423409.41 0.0133 0.0099

Uranus 21088-07-22 23:45 G 9423497.42 9423497.49 9423497.56 0.0133 0.0118

Jupiter 21091-01-17 00:43 G 9424405.40 9424405.53 9424405.67 0.0501 0.0191

Jupiter 21091-04-16 11:16 G 9424494.88 9424494.97 9424495.07 0.0498 0.0384

Mars 21093-12-13 02:52 G 9425466.52 9425466.62 9425466.72 0.1609 0.1071

Moon 21097-06-16 23:02 G 9426748.33 9426748.46 9426748.59 0.2649 0.0728

Earth 21097-06-17 00:14 G 9426748.38 9426748.51 9426748.64 0.2651 0.0574 *

Jupiter 21097-06-17 03:36 G 9426748.50 9426748.65 9426748.81 0.0529 0.0081 *

Venus 21098-11-30 08:24 G 9427279.78 9427279.85 9427279.92 0.3691 0.2957

Saturn 21099-03-26 23:16 G 9427396.39 9427396.47 9427396.55 0.0274 0.0226

Saturn 21099-06-23 12:28 G 9427484.89 9427485.02 9427485.15 0.0274 0.0128

Saturn 21099-09-20 02:09 G 9427573.44 9427573.59 9427573.74 0.0274 0.0028

Moon 21099-12-16 06:00 G 9427660.64 9427660.75 9427660.86 0.2682 0.1122

Earth 21099-12-16 06:57 G 9427660.68 9427660.79 9427660.90 0.2681 0.0969 *

Saturn 21099-12-17 16:04 G 9427662.03 9427662.17 9427662.32 0.0275 0.0076

Saturn 21100-03-16 06:14 G 9427750.66 9427750.76 9427750.88 0.0275 0.0182

Jupiter 21102-11-06 04:04 G 9428715.56 9428715.67 9428715.77 0.0502 0.0331

Jupiter 21103-02-03 14:24 G 9428804.97 9428805.10 9428805.22 0.0498 0.0241

Mars 21103-05-06 10:19 G 9428896.80 9428896.93 9428897.07 0.1613 0.0343

Venus 21104-06-16 04:33 G 9429303.58 9429303.69 9429303.81 0.3692 0.1176

Venus 21105-12-27 22:04 G 9429863.36 9429863.42 9429863.49 0.3679 0.2988

Jupiter 21109-04-06 02:52 G 9431058.47 9431058.62 9431058.78 0.0527 0.0117

Venus 21109-12-31 00:28 G 9431327.40 9431327.52 9431327.64 0.3692 0.0537

Mars 21109-12-31 04:48 G 9431327.58 9431327.70 9431327.82 0.1927 0.0711 *

Moon 21110-06-20 22:33 G 9431499.32 9431499.44 9431499.55 0.2653 0.1345

Earth 21110-06-20 23:31 G 9431499.37 9431499.48 9431499.60 0.2651 0.1419 *

Venus 21111-07-13 19:12 G 9431887.18 9431887.30 9431887.42 0.3679 0.1186

Mars 21112-09-25 18:14 G 9432327.12 9432327.26 9432327.39 0.1617 0.0388

Moon 21112-12-19 03:07 G 9432411.51 9432411.63 9432411.75 0.2687 0.0757

Earth 21112-12-19 03:36 G 9432411.53 9432411.65 9432411.77 0.2680 0.0763 *

Saturn 21113-08-06 09:07 G 9432641.80 9432641.88 9432641.96 0.0286 0.0247

Saturn 21113-11-03 03:07 G 9432730.49 9432730.63 9432730.78 0.0286 0.0118

Saturn 21114-01-30 20:38 G 9432819.20 9432819.36 9432819.52 0.0285 0.0010

Saturn 21114-04-29 13:40 G 9432907.94 9432908.07 9432908.22 0.0285 0.0130

Saturn 21114-07-27 06:28 G 9432996.70 9432996.77 9432996.85 0.0285 0.0248

Jupiter 21114-08-25 06:57 G 9433025.75 9433025.79 9433025.84 0.0503 0.0473

Jupiter 21114-11-22 17:02 G 9433115.07 9433115.21 9433115.36 0.0500 0.0098

Venus 21115-07-16 20:09 G 9433351.24 9433351.34 9433351.43 0.3693 0.2178

Venus 21117-01-26 16:33 G 9433911.07 9433911.19 9433911.32 0.3678 0.0722

Mars 21119-05-23 08:09 G 9434757.72 9434757.84 9434757.97 0.1921 0.0584

Jupiter 21121-01-23 02:38 G 9435368.48 9435368.61 9435368.74 0.0526 0.0308

Jupiter 21121-04-23 01:12 G 9435458.47 9435458.55 9435458.64 0.0530 0.0445

Mars 21122-02-16 01:55 G 9435757.48 9435757.58 9435757.68 0.1621 0.1105

Venus 21122-08-12 14:38 G 9435935.02 9435935.11 9435935.19 0.3678 0.2706

Earth 21125-12-22 00:43 G 9437162.49 9437162.53 9437162.56 0.2680 0.2542

Moon 21125-12-22 00:57 G 9437162.50 9437162.54 9437162.58 0.2687 0.2518 *

Jupiter 21126-09-10 20:24 G 9437425.21 9437425.35 9437425.49 0.0500 0.0042

Uranus 21127-08-29 18:28 G 9437778.20 9437778.27 9437778.34 0.0145 0.0126

Uranus 21127-11-25 23:31 G 9437866.38 9437866.48 9437866.59 0.0145 0.0103

Uranus 21128-02-22 04:33 G 9437954.57 9437954.69 9437954.82 0.0145 0.0080

Uranus 21128-05-20 09:50 G 9438042.77 9438042.91 9438043.05 0.0145 0.0056

Saturn 21128-08-14 01:40 G 9438128.51 9438128.57 9438128.63 0.0273 0.0250

Uranus 21128-08-16 15:07 G 9438130.98 9438131.13 9438131.28 0.0145 0.0033

Mars 21128-10-12 11:31 G 9438187.96 9438187.98 9438188.00 0.1915 0.1887

Saturn 21128-11-10 14:52 G 9438217.00 9438217.12 9438217.24 0.0273 0.0153

Uranus 21128-11-12 20:24 G 9438219.19 9438219.35 9438219.50 0.0145 0.0009

Saturn 21129-02-07 04:33 G 9438305.54 9438305.69 9438305.83 0.0274 0.0054

Uranus 21129-02-09 01:40 G 9438307.41 9438307.57 9438307.72 0.0145 0.0016

Saturn 21129-05-06 18:14 G 9438394.11 9438394.26 9438394.41 0.0274 0.0049

Uranus 21129-05-08 06:57 G 9438395.64 9438395.79 9438395.94 0.0145 0.0040

Saturn 21129-08-03 08:24 G 9438482.73 9438482.85 9438482.98 0.0274 0.0153

Uranus 21129-08-04 12:28 G 9438483.88 9438484.02 9438484.16 0.0145 0.0065

Saturn 21129-10-30 22:48 G 9438571.41 9438571.45 9438571.50 0.0275 0.0261

Uranus 21129-10-31 17:45 G 9438572.12 9438572.24 9438572.37 0.0145 0.0089

Uranus 21130-01-27 23:16 G 9438660.38 9438660.47 9438660.57 0.0145 0.0114

Uranus 21130-04-26 04:48 G 9438748.67 9438748.70 9438748.75 0.0145 0.0139

Moon 21130-06-16 05:31 G 9438799.66 9438799.73 9438799.81 0.2645 0.2226

Earth 21130-06-16 06:14 G 9438799.68 9438799.76 9438799.83 0.2651 0.2202 *

Jupiter 21132-11-11 01:55 G 9439678.54 9439678.58 9439678.63 0.0526 0.0501

Moon 21132-12-14 14:52 G 9439712.06 9439712.12 9439712.17 0.2678 0.2385

Earth 21132-12-14 15:36 G 9439712.09 9439712.15 9439712.21 0.2681 0.2301 *

Jupiter 21133-02-09 01:12 G 9439768.42 9439768.55 9439768.69 0.0529 0.0259

Mars 21133-06-14 03:07 G 9439893.53 9439893.63 9439893.72 0.1609 0.1178

Jupiter 21138-06-29 23:45 G 9441735.36 9441735.49 9441735.63 0.0501 0.0179

Jupiter 21138-09-27 10:19 G 9441824.85 9441824.93 9441825.02 0.0498 0.0398

Neptune 21140-04-30 15:36 G 9442406.10 9442406.15 9442406.22 0.0089 0.0083

Neptune 21140-07-27 18:14 G 9442494.18 9442494.26 9442494.36 0.0089 0.0074

Neptune 21140-10-23 20:52 G 9442582.26 9442582.37 9442582.48 0.0089 0.0066

Neptune 21141-01-19 23:02 G 9442670.35 9442670.46 9442670.60 0.0089 0.0058

Neptune 21141-04-18 01:40 G 9442758.44 9442758.57 9442758.72 0.0089 0.0049

Neptune 21141-07-15 04:04 G 9442846.54 9442846.67 9442846.83 0.0089 0.0040

Neptune 21141-10-11 06:43 G 9442934.63 9442934.78 9442934.94 0.0089 0.0031

Neptune 21142-01-07 09:21 G 9443022.73 9443022.89 9443023.05 0.0089 0.0022

Neptune 21142-04-05 11:45 G 9443110.83 9443110.99 9443111.16 0.0089 0.0014

Neptune 21142-07-02 14:09 G 9443198.93 9443199.09 9443199.26 0.0089 0.0006

Neptune 21142-09-28 16:33 G 9443287.03 9443287.19 9443287.36 0.0089 0.0004

Mars 21142-11-04 10:48 G 9443323.81 9443323.95 9443324.08 0.1613 0.0451

Neptune 21142-12-25 18:57 G 9443375.13 9443375.29 9443375.46 0.0089 0.0012

Saturn 21143-03-23 01:55 G 9443462.45 9443462.58 9443462.71 0.0285 0.0166

Neptune 21143-03-23 21:21 G 9443463.24 9443463.39 9443463.56 0.0089 0.0020

Moon 21143-06-19 04:48 G 9443550.56 9443550.70 9443550.83 0.2650 0.0322

Earth 21143-06-19 05:45 G 9443550.61 9443550.74 9443550.88 0.2651 0.0175 *

Saturn 21143-06-19 19:40 G 9443551.16 9443551.32 9443551.48 0.0285 0.0039

Neptune 21143-06-19 23:45 G 9443551.34 9443551.49 9443551.65 0.0089 0.0029 *

Neptune 21143-09-16 02:09 G 9443639.45 9443639.59 9443639.74 0.0089 0.0037

Saturn 21143-09-16 12:57 G 9443639.89 9443640.04 9443640.19 0.0285 0.0084

Neptune 21143-12-13 04:33 G 9443727.56 9443727.69 9443727.84 0.0089 0.0045

Saturn 21143-12-14 05:45 G 9443728.63 9443728.74 9443728.85 0.0284 0.0203

Neptune 21144-03-10 06:57 G 9443815.66 9443815.79 9443815.92 0.0089 0.0054

Neptune 21144-06-06 09:07 G 9443903.78 9443903.88 9443904.01 0.0089 0.0062

Neptune 21144-09-02 11:16 G 9443991.89 9443991.97 9443992.09 0.0089 0.0071

Jupiter 21144-11-28 01:55 G 9444078.42 9444078.58 9444078.73 0.0529 0.0082

Neptune 21144-11-29 13:40 G 9444080.01 9444080.07 9444080.16 0.0089 0.0079

Neptune 21145-02-25 16:04 G 9444168.15 9444168.17 9444168.22 0.0089 0.0087

Moon 21145-12-17 11:16 G 9444462.86 9444462.97 9444463.09 0.2684 0.0726

Earth	21145-12-17 12:14 G	9444462.89	9444463.01	9444463.13	0.2681	0.0622	*
Mars	21149-07-01 05:02 G	9445754.60	9445754.71	9445754.83	0.1927	0.0854	
Jupiter	21150-04-18 02:52 G	9446045.52	9446045.62	9446045.73	0.0502	0.0320	
Jupiter	21150-07-16 13:12 G	9446134.92	9446135.05	9446135.17	0.0498	0.0252	
Mars	21152-03-26 18:28 G	9446754.13	9446754.27	9446754.40	0.1616	0.0282	
Venus	21155-07-08 07:12 G	9447952.71	9447952.80	9447952.89	0.3691	0.2378	
Moon	21156-06-21 04:04 G	9448301.57	9448301.67	9448301.78	0.2653	0.1645	
Earth	21156-06-21 05:16 G	9448301.62	9448301.72	9448301.81	0.2651	0.1822	*
Jupiter	21156-09-16 02:09 G	9448388.44	9448388.59	9448388.75	0.0528	0.0098	
Saturn	21158-03-30 14:52 G	9448949.03	9448949.12	9448949.23	0.0274	0.0194	
Saturn	21158-06-27 04:33 G	9449037.55	9449037.69	9449037.82	0.0274	0.0095	
Saturn	21158-09-23 18:14 G	9449126.11	9449126.26	9449126.41	0.0274	0.0008	
Mars	21158-11-21 08:38 G	9449184.73	9449184.86	9449184.99	0.1921	0.0446	
Moon	21158-12-20 08:24 G	9449213.74	9449213.85	9449213.96	0.2686	0.1014	
Earth	21158-12-20 08:52 G	9449213.76	9449213.87	9449213.98	0.2680	0.1120	*
Saturn	21158-12-21 08:09 G	9449214.70	9449214.84	9449214.98	0.0275	0.0110	
Saturn	21159-03-19 22:33 G	9449303.35	9449303.44	9449303.53	0.0275	0.0217	
Venus	21161-01-21 03:21 G	9449976.52	9449976.64	9449976.76	0.3692	0.0616	
Mars	21161-08-17 02:09 G	9450184.48	9450184.59	9450184.70	0.1620	0.1000	
Jupiter	21162-02-04 06:14 G	9450355.71	9450355.76	9450355.82	0.0503	0.0458	
Jupiter	21162-05-04 16:19 G	9450445.03	9450445.18	9450445.32	0.0499	0.0111	
Venus	21162-08-03 21:07 G	9450536.29	9450536.38	9450536.47	0.3679	0.2415	
Venus	21166-08-06 23:02 G	9452000.35	9452000.46	9452000.57	0.3692	0.1076	
Venus	21168-02-17 18:14 G	9452560.14	9452560.26	9452560.38	0.3679	0.0584	
Mars	21168-04-12 12:00 G	9452614.94	9452615.00	9452615.05	0.1915	0.1742	
Jupiter	21168-07-05 01:26 G	9452698.43	9452698.56	9452698.70	0.0526	0.0293	
Jupiter	21168-10-03 00:14 G	9452788.43	9452788.51	9452788.58	0.0530	0.0459	
Uranus	21169-06-23 19:40 G	9453052.26	9453052.32	9453052.37	0.0133	0.0124	
Uranus	21169-09-20 00:14 G	9453140.42	9453140.51	9453140.62	0.0133	0.0104	
Uranus	21169-12-17 05:02 G	9453228.59	9453228.71	9453228.84	0.0133	0.0084	

Uranus	21170-03-15 09:36 G	9453316.77	9453316.90	9453317.05	0.0133	0.0065
Uranus	21170-06-11 14:38 G	9453404.96	9453405.11	9453405.26	0.0133	0.0045
Uranus	21170-09-07 19:12 G	9453493.14	9453493.30	9453493.46	0.0133	0.0026
Uranus	21170-12-04 23:45 G	9453581.33	9453581.49	9453581.65	0.0133	0.0007
Uranus	21171-03-03 04:19 G	9453669.52	9453669.68	9453669.84	0.0133	0.0012
Uranus	21171-05-30 08:52 G	9453757.72	9453757.87	9453758.02	0.0133	0.0031
Uranus	21171-08-26 13:26 G	9453845.91	9453846.06	9453846.20	0.0133	0.0050
Uranus	21171-11-22 17:45 G	9453934.11	9453934.24	9453934.38	0.0133	0.0068
Uranus	21172-02-18 22:19 G	9454022.31	9454022.43	9454022.55	0.0133	0.0086
Venus	21172-02-20 18:43 G	9454024.20	9454024.28	9454024.35	0.3693	0.2702
Uranus	21172-05-17 02:24 G	9454110.52	9454110.60	9454110.70	0.0133	0.0105
Saturn	21172-08-09 02:24 G	9454194.49	9454194.60	9454194.72	0.0286	0.0204
Uranus	21172-08-13 06:43 G	9454198.74	9454198.78	9454198.85	0.0133	0.0123
Saturn	21172-11-05 20:24 G	9454283.20	9454283.35	9454283.51	0.0286	0.0076
Mars	21172-12-13 03:21 G	9454320.55	9454320.64	9454320.72	0.1609	0.1287
Saturn	21173-02-02 13:55 G	9454371.92	9454372.08	9454372.23	0.0286	0.0050
Saturn	21173-05-02 06:43 G	9454460.66	9454460.78	9454460.91	0.0285	0.0171
Venus	21173-09-02 15:50 G	9454584.04	9454584.16	9454584.27	0.3678	0.1339
Jupiter	21174-02-20 18:57 G	9454755.15	9454755.29	9454755.44	0.0501	0.0036
Moon	21176-06-16 11:02 G	9455601.87	9455601.96	9455602.05	0.2646	0.1930
Earth	21176-06-16 11:45 G	9455601.89	9455601.99	9455602.09	0.2651	0.1779 *
Moon	21178-12-15 19:55 G	9456514.26	9456514.33	9456514.41	0.2679	0.2110
Earth	21178-12-15 20:52 G	9456514.29	9456514.37	9456514.45	0.2681	0.1954 *
Venus	21179-03-19 13:40 G	9456608.03	9456608.07	9456608.12	0.3678	0.3362
Jupiter	21180-04-23 00:57 G	9457008.48	9457008.54	9457008.60	0.0525	0.0484
Jupiter	21180-07-22 00:14 G	9457098.38	9457098.51	9457098.64	0.0529	0.0274
Mars	21182-05-05 10:48 G	9457750.82	9457750.95	9457751.09	0.1613	0.0558
Jupiter	21185-12-09 22:19 G	9459065.30	9459065.43	9459065.56	0.0501	0.0174
Jupiter	21186-03-09 08:52 G	9459154.79	9459154.87	9459154.96	0.0498	0.0404
Saturn	21187-08-17 17:31 G	9459681.14	9459681.23	9459681.32	0.0273	0.0217

Saturn 21187-11-14 06:43 G 9459769.65 9459769.78 9459769.92 0.0273 0.0120

Saturn 21188-02-10 20:24 G 9459858.20 9459858.35 9459858.50 0.0274 0.0020

Saturn 21188-05-09 10:19 G 9459946.79 9459946.93 9459947.07 0.0274 0.0083

Saturn 21188-08-06 00:28 G 9460035.42 9460035.52 9460035.63 0.0274 0.0189

Mars 21188-12-30 05:02 G 9460181.60 9460181.71 9460181.83 0.1927 0.0973

Moon 21189-06-19 10:19 G 9460352.79 9460352.93 9460353.06 0.2650 0.0137

Earth 21189-06-19 11:31 G 9460352.85 9460352.98 9460353.11 0.2651 0.0261 *

Mars 21191-09-25 18:43 G 9461181.14 9461181.28 9461181.41 0.1616 0.0180

Moon 21191-12-18 16:33 G 9461265.07 9461265.19 9461265.31 0.2685 0.0349

Earth 21191-12-18 17:16 G 9461265.10 9461265.22 9461265.35 0.2681 0.0269 *

Jupiter 21192-05-10 00:00 G 9461408.35 9461408.50 9461408.66 0.0528 0.0085

Jupiter 21197-09-28 01:55 G 9463375.47 9463375.58 9463375.69 0.0502 0.0309

Jupiter 21197-12-26 12:14 G 9463464.88 9463465.01 9463465.13 0.0499 0.0265

Mars 21198-05-22 08:52 G 9463611.74 9463611.87 9463612.00 0.1922 0.0303

Mars 21201-02-15 02:24 G 9464611.49 9464611.60 9464611.72 0.1620 0.0892

Saturn 21201-12-27 01:12 G 9464926.48 9464926.55 9464926.63 0.0286 0.0251

Saturn 21202-03-25 19:26 G 9465015.16 9465015.31 9465015.46 0.0285 0.0122

Moon 21202-06-22 09:50 G 9465103.84 9465103.91 9465103.99 0.2655 0.2140

Earth 21202-06-22 10:48 G 9465103.88 9465103.95 9465104.02 0.2651 0.2226 *

Saturn 21202-06-22 12:57 G 9465103.88 9465104.04 9465104.20 0.0285 0.0008 *

Saturn 21202-09-19 06:14 G 9465192.62 9465192.76 9465192.90 0.0285 0.0127

Saturn 21202-12-16 22:48 G 9465281.38 9465281.45 9465281.53 0.0284 0.0245

Jupiter 21204-02-27 00:28 G 9465718.36 9465718.52 9465718.67 0.0528 0.0096

Moon 21204-12-20 13:55 G 9466015.98 9466016.08 9466016.18 0.2687 0.1481

Earth 21204-12-20 14:09 G 9466015.99 9466016.09 9466016.19 0.2680 0.1482 *

Venus 21206-07-29 09:21 G 9466601.88 9466601.89 9466601.91 0.3691 0.3630

Mars 21207-10-12 12:14 G 9467041.94 9467042.01 9467042.08 0.1915 0.1598

Jupiter 21209-07-17 05:16 G 9467685.65 9467685.72 9467685.78 0.0503 0.0447

Jupiter 21209-10-14 15:07 G 9467774.99 9467775.13 9467775.27 0.0499 0.0122

Mars 21210-07-08 10:19 G 9468041.92 9468041.93 9468041.95 0.1624 0.1607

Uranus 21211-06-22 20:38 G 9468391.35 9468391.36 9468391.38 0.0145 0.0144

Uranus 21211-09-19 01:26 G 9468479.49 9468479.56 9468479.65 0.0145 0.0121

Uranus 21211-12-16 06:43 G 9468567.67 9468567.78 9468567.89 0.0145 0.0098

Venus 21212-02-12 06:00 G 9468625.64 9468625.75 9468625.85 0.3691 0.1811

Uranus 21212-03-13 11:45 G 9468655.87 9468655.99 9468656.13 0.0145 0.0074

Uranus 21212-06-09 17:02 G 9468744.07 9468744.21 9468744.36 0.0145 0.0051

Mars 21212-06-13 03:36 G 9468747.59 9468747.65 9468747.72 0.1609 0.1403

Uranus 21212-09-05 22:19 G 9468832.28 9468832.43 9468832.58 0.0145 0.0027

Uranus 21212-12-03 03:36 G 9468920.49 9468920.65 9468920.80 0.0145 0.0004

Uranus 21213-03-01 08:52 G 9469008.71 9469008.87 9469009.02 0.0145 0.0021

Uranus 21213-05-28 14:09 G 9469096.94 9469097.09 9469097.24 0.0145 0.0046

Uranus 21213-08-24 19:26 G 9469185.18 9469185.31 9469185.45 0.0145 0.0070

Venus 21213-08-24 23:16 G 9469185.45 9469185.47 9469185.49 0.3680 0.3612 *

Uranus 21213-11-21 00:57 G 9469273.43 9469273.54 9469273.66 0.0145 0.0095

Uranus 21214-02-17 06:14 G 9469361.69 9469361.76 9469361.86 0.0145 0.0120

Uranus 21214-05-16 12:00 G 9469450.00 9469450.00 9469450.01 0.0145 0.0145

Jupiter 21215-12-16 00:43 G 9470028.39 9470028.53 9470028.66 0.0527 0.0276

Jupiter 21216-03-14 23:31 G 9470118.41 9470118.48 9470118.54 0.0530 0.0478

Saturn 21217-01-03 17:31 G 9470413.19 9470413.23 9470413.28 0.0273 0.0258

Saturn 21217-04-02 06:43 G 9470501.67 9470501.78 9470501.90 0.0273 0.0162

Saturn 21217-06-29 20:09 G 9470590.20 9470590.34 9470590.49 0.0274 0.0063

Venus 21217-08-28 01:55 G 9470649.46 9470649.58 9470649.70 0.3692 0.0063

Saturn 21217-09-26 10:04 G 9470678.77 9470678.92 9470679.07 0.0274 0.0040

Saturn 21217-12-24 00:00 G 9470767.38 9470767.50 9470767.63 0.0274 0.0144

Saturn 21218-03-22 14:24 G 9470856.05 9470856.10 9470856.16 0.0275 0.0251

Venus 21219-03-10 19:55 G 9471209.23 9471209.33 9471209.44 0.3679 0.1845

Pluto 21219-08-19 15:50 G 9471371.11 9471371.16 9471371.23 0.0070 0.0061

Pluto 21219-11-15 16:19 G 9471459.11 9471459.18 9471459.28 0.0070 0.0052

Pluto 21220-02-11 17:16 G 9471547.12 9471547.22 9471547.33 0.0070 0.0042

Pluto 21220-05-09 17:45 G 9471635.13 9471635.24 9471635.36 0.0070 0.0033

Pluto 21220-08-05 18:28 G 9471723.15 9471723.27 9471723.40 0.0071 0.0024

Pluto 21220-11-01 18:57 G 9471811.17 9471811.29 9471811.43 0.0071 0.0015

Pluto 21221-01-28 19:55 G 9471899.19 9471899.33 9471899.46 0.0071 0.0005

Pluto 21221-04-26 20:24 G 9471987.22 9471987.35 9471987.48 0.0071 0.0005

Neptune 21221-05-06 00:43 G 9471996.50 9471996.53 9471996.57 0.0088 0.0085

Pluto 21221-07-23 20:52 G 9472075.25 9472075.37 9472075.51 0.0071 0.0015

Neptune 21221-08-02 02:24 G 9472084.55 9472084.60 9472084.68 0.0088 0.0078

Jupiter 21221-08-02 18:14 G 9472085.12 9472085.26 9472085.41 0.0500 0.0020

Pluto 21221-10-19 21:36 G 9472163.28 9472163.40 9472163.53 0.0071 0.0025

Neptune 21221-10-29 04:33 G 9472172.60 9472172.69 9472172.77 0.0088 0.0071

Mars 21221-11-03 11:02 G 9472177.84 9472177.96 9472178.09 0.1612 0.0664

Pluto 21222-01-15 22:19 G 9472251.32 9472251.43 9472251.55 0.0071 0.0034

Neptune 21222-01-25 06:14 G 9472260.66 9472260.76 9472260.86 0.0088 0.0063

Pluto 21222-04-13 22:48 G 9472339.36 9472339.45 9472339.56 0.0071 0.0044

Neptune 21222-04-23 07:55 G 9472348.72 9472348.83 9472348.95 0.0088 0.0056

Moon 21222-06-17 16:33 G 9472404.07 9472404.19 9472404.31 0.2648 0.1394

Earth 21222-06-17 17:31 G 9472404.11 9472404.23 9472404.35 0.2651 0.1352 *

Pluto 21222-07-10 23:16 G 9472427.40 9472427.47 9472427.57 0.0071 0.0055

Neptune 21222-07-20 09:36 G 9472436.79 9472436.90 9472437.04 0.0088 0.0049

Pluto 21222-10-07 00:00 G 9472515.46 9472515.50 9472515.57 0.0072 0.0065

Neptune 21222-10-16 11:31 G 9472524.86 9472524.98 9472525.12 0.0088 0.0042

Neptune 21223-01-12 13:26 G 9472612.93 9472613.06 9472613.20 0.0088 0.0034

Venus 21223-03-13 21:36 G 9472673.30 9472673.40 9472673.51 0.3693 0.1606

Neptune 21223-04-10 15:21 G 9472701.00 9472701.14 9472701.29 0.0088 0.0026

Neptune 21223-07-07 17:16 G 9472789.07 9472789.22 9472789.37 0.0088 0.0019

Neptune 21223-10-03 19:12 G 9472877.15 9472877.30 9472877.45 0.0088 0.0012

Neptune 21223-12-30 20:52 G 9472965.22 9472965.37 9472965.53 0.0088 0.0005

Neptune 21224-03-27 22:48 G 9473053.30 9473053.45 9473053.60 0.0088 0.0004

Neptune 21224-06-24 00:43 G 9473141.38 9473141.53 9473141.68 0.0088 0.0011

Neptune 21224-09-20 02:38 G 9473229.46 9473229.61 9473229.76 0.0088 0.0019

Venus 21224-09-23 17:16 G 9473233.09 9473233.22 9473233.34 0.3679 0.0050

Moon 21224-12-16 01:12 G 9473316.45 9473316.55 9473316.64 0.2680 0.1661

Earth 21224-12-16 01:55 G 9473316.49 9473316.58 9473316.68 0.2680 0.1608 *

Neptune 21224-12-17 04:33 G 9473317.54 9473317.69 9473317.84 0.0088 0.0026

Neptune 21225-03-15 06:14 G 9473405.63 9473405.76 9473405.91 0.0088 0.0034

Neptune 21225-06-11 08:24 G 9473493.71 9473493.85 9473493.98 0.0088 0.0042

Neptune 21225-09-07 10:04 G 9473581.80 9473581.92 9473582.06 0.0088 0.0049

Neptune 21225-12-04 12:00 G 9473669.89 9473670.00 9473670.13 0.0088 0.0057

Neptune 21226-03-02 14:09 G 9473757.99 9473758.09 9473758.19 0.0088 0.0065

Neptune 21226-05-29 16:04 G 9473846.09 9473846.17 9473846.26 0.0088 0.0072

Neptune 21226-08-25 17:45 G 9473934.19 9473934.24 9473934.32 0.0088 0.0080

Neptune 21226-11-21 19:55 G 9474022.33 9474022.33 9474022.35 0.0088 0.0088

Jupiter 21227-10-04 00:00 G 9474338.43 9474338.50 9474338.58 0.0525 0.0468

Jupiter 21228-01-01 23:16 G 9474428.34 9474428.47 9474428.60 0.0529 0.0290

Mars 21228-06-30 05:31 G 9474608.62 9474608.73 9474608.84 0.1927 0.1120

Venus 21228-09-26 17:02 G 9474697.16 9474697.21 9474697.27 0.3693 0.3214

Venus 21230-04-09 14:52 G 9475257.02 9475257.12 9475257.23 0.3678 0.1974

Mars 21231-03-26 18:43 G 9475608.14 9475608.28 9475608.42 0.1616 0.0074

Saturn 21231-08-12 19:26 G 9475747.18 9475747.31 9475747.45 0.0286 0.0163

Saturn 21231-11-09 13:12 G 9475835.90 9475836.05 9475836.21 0.0286 0.0036

Saturn 21232-02-06 06:43 G 9475924.63 9475924.78 9475924.93 0.0286 0.0089

Saturn 21232-05-04 23:31 G 9476013.38 9476013.48 9476013.59 0.0285 0.0210

Jupiter 21233-05-21 21:07 G 9476395.24 9476395.38 9476395.51 0.0502 0.0167

Jupiter 21233-08-19 07:40 G 9476484.74 9476484.82 9476484.90 0.0498 0.0412

Moon 21235-06-20 15:50 G 9477155.03 9477155.16 9477155.30 0.2650 0.0483

Earth 21235-06-20 17:02 G 9477155.08 9477155.21 9477155.34 0.2651 0.0671 *

Mars 21237-11-20 09:07 G 9478038.75 9478038.88 9478039.01 0.1921 0.0167

Moon 21237-12-18 21:50 G 9478067.29 9478067.41 9478067.53 0.2685 0.0040

Earth 21237-12-18 22:33 G 9478067.32 9478067.44 9478067.56 0.2680 0.0097 *

Jupiter 21239-10-20 23:16 G 9478738.31 9478738.47 9478738.62 0.0528 0.0103

Mars 21240-08-16 02:38 G 9479038.49 9479038.61 9479038.73 0.1620 0.0788

Jupiter 21245-03-10 00:28 G 9480705.41 9480705.52 9480705.63 0.0502 0.0304

Jupiter 21245-06-07 10:33 G 9480794.83 9480794.94 9480795.07 0.0499 0.0272

Saturn 21246-08-20 09:21 G 9481233.78 9481233.89 9481234.00 0.0273 0.0185

Saturn 21246-11-16 22:48 G 9481322.31 9481322.45 9481322.59 0.0273 0.0086

Saturn 21247-02-13 12:28 G 9481410.87 9481411.02 9481411.17 0.0273 0.0016

Mars 21247-04-12 12:28 G 9481468.93 9481469.02 9481469.10 0.1916 0.1475

Saturn 21247-05-13 02:24 G 9481499.46 9481499.60 9481499.73 0.0274 0.0118

Saturn 21247-08-09 16:33 G 9481588.11 9481588.19 9481588.28 0.0274 0.0224

Moon 21248-06-22 15:36 G 9481906.12 9481906.15 9481906.18 0.2656 0.2549

Earth 21248-06-22 16:19 G 9481906.16 9481906.18 9481906.20 0.2651 0.2621 *

Mars 21250-01-06 10:33 G 9482468.89 9482468.94 9482468.99 0.1624 0.1502

Moon 21250-12-21 19:26 G 9482818.22 9482818.31 9482818.39 0.2687 0.1858

Earth 21250-12-21 19:26 G 9482818.22 9482818.31 9482818.40 0.2680 0.1848 *

Jupiter 21251-08-08 22:48 G 9483048.29 9483048.45 9483048.61 0.0527 0.0090

Mars 21251-12-13 03:50 G 9483174.61 9483174.66 9483174.70 0.1609 0.1510

Uranus 21253-07-14 02:24 G 9483753.54 9483753.60 9483753.67 0.0133 0.0119

Uranus 21253-10-10 07:12 G 9483841.70 9483841.80 9483841.91 0.0133 0.0100

Uranus 21254-01-06 11:45 G 9483929.87 9483929.99 9483930.13 0.0133 0.0081

Uranus 21254-04-04 16:48 G 9484018.06 9484018.20 9484018.34 0.0133 0.0060

Uranus 21254-07-01 21:21 G 9484106.24 9484106.39 9484106.55 0.0133 0.0041

Uranus 21254-09-28 02:09 G 9484194.43 9484194.59 9484194.75 0.0133 0.0022

Uranus 21254-12-25 06:43 G 9484282.62 9484282.78 9484282.94 0.0133 0.0003

Uranus 21255-03-23 11:16 G 9484370.81 9484370.97 9484371.13 0.0133 0.0016

Uranus 21255-06-19 15:50 G 9484459.01 9484459.16 9484459.31 0.0133 0.0035

Uranus 21255-09-15 20:09 G 9484547.20 9484547.34 9484547.49 0.0133 0.0054

Uranus 21255-12-13 00:43 G 9484635.40 9484635.53 9484635.66 0.0133 0.0072

Uranus 21256-03-10 04:48 G 9484723.60 9484723.70 9484723.83 0.0133 0.0092

Uranus 21256-06-06 09:21 G 9484811.81 9484811.89 9484811.99 0.0133 0.0109

Uranus 21256-09-02 13:40 G 9484900.04 9484900.07 9484900.12 0.0133 0.0127

Jupiter 21256-12-27 04:04 G 9485015.60 9485015.67 9485015.74 0.0503 0.0437

Jupiter 21257-03-26 13:55 G 9485104.95 9485105.08 9485105.22 0.0500 0.0134

Saturn 21260-12-29 18:43 G 9486479.17 9486479.28 9486479.39 0.0286 0.0208

Saturn 21261-03-28 12:28 G 9486567.87 9486568.02 9486568.18 0.0286 0.0080

Mars 21261-05-04 11:31 G 9486604.85 9486604.98 9486605.10 0.1612 0.0778

Saturn 21261-06-25 06:00 G 9486656.60 9486656.75 9486656.91 0.0285 0.0046

Saturn 21261-09-21 23:02 G 9486745.34 9486745.46 9486745.59 0.0285 0.0167

Venus 21263-03-05 08:09 G 9487274.78 9487274.84 9487274.91 0.3691 0.3044

Jupiter 21263-05-27 23:02 G 9487358.32 9487358.46 9487358.59 0.0527 0.0273

Jupiter 21263-08-25 21:36 G 9487448.34 9487448.40 9487448.47 0.0530 0.0481

Mars 21267-12-30 05:45 G 9489035.65 9489035.74 9489035.84 0.1927 0.1262

Moon 21268-06-17 22:04 G 9489206.30 9489206.42 9489206.54 0.2648 0.1153

Earth 21268-06-17 23:02 G 9489206.34 9489206.46 9489206.59 0.2651 0.0934 *

Venus 21268-09-18 04:33 G 9489298.58 9489298.69 9489298.80 0.3692 0.1238

Jupiter 21269-01-12 17:16 G 9489415.07 9489415.22 9489415.36 0.0500 0.0017

Venus 21270-03-31 22:04 G 9489858.35 9489858.42 9489858.48 0.3680 0.3052

Mars 21270-09-24 18:57 G 9490035.15 9490035.29 9490035.43 0.1616 0.0064

Moon 21270-12-17 06:14 G 9490118.66 9490118.76 9490118.86 0.2682 0.1457

Earth 21270-12-17 07:12 G 9490118.69 9490118.80 9490118.91 0.2680 0.1260 *

Venus 21274-04-04 00:28 G 9491322.40 9491322.52 9491322.64 0.3692 0.0477

Jupiter 21275-03-15 23:02 G 9491668.38 9491668.46 9491668.54 0.0526 0.0454

Jupiter 21275-06-13 22:19 G 9491758.31 9491758.43 9491758.56 0.0529 0.0306

Venus 21275-10-15 18:57 G 9491882.17 9491882.29 9491882.40 0.3679 0.1261

Saturn 21276-01-07 09:21 G 9491965.81 9491965.89 9491965.97 0.0273 0.0226

Saturn 21276-04-04 22:33 G 9492054.31 9492054.44 9492054.57 0.0273 0.0129

Saturn 21276-07-02 12:00 G 9492142.85 9492143.00 9492143.15 0.0274 0.0029

Saturn 21276-09-29 01:55 G 9492231.43 9492231.58 9492231.72 0.0274 0.0073

Saturn 21276-12-26 16:04 G 9492320.05 9492320.17 9492320.28 0.0274 0.0178

Mars 21277-05-21 09:21 G 9492465.75 9492465.89 9492466.02 0.1922 0.0050

Venus 21279-10-18 20:09 G 9493346.25 9493346.34 9493346.43 0.3693 0.2138

Mars 21280-02-15 02:52 G 9493465.49 9493465.62 9493465.74 0.1620 0.0684

Jupiter 21280-10-31 20:24 G 9493725.21 9493725.35 9493725.49 0.0501 0.0149

Jupiter 21281-01-29 06:57 G 9493814.72 9493814.79 9493814.86 0.0498 0.0428

Venus 21281-04-30 16:19 G 9493906.06 9493906.18 9493906.30 0.3678 0.0630

Moon 21281-06-20 21:36 G 9493957.28 9493957.40 9493957.52 0.2652 0.1005

Earth 21281-06-20 22:48 G 9493957.32 9493957.45 9493957.57 0.2651 0.1084 *

Moon 21283-12-20 03:07 G 9494869.51 9494869.63 9494869.75 0.2685 0.0410

Earth 21283-12-20 03:50 G 9494869.54 9494869.66 9494869.78 0.2680 0.0454 *

Mars 21286-10-11 12:57 G 9495895.94 9495896.04 9495896.13 0.1916 0.1319

Venus 21286-11-14 14:09 G 9495930.00 9495930.09 9495930.17 0.3678 0.2615

Jupiter 21287-04-01 22:19 G 9496068.28 9496068.43 9496068.58 0.0528 0.0120

Mars 21289-07-07 10:48 G 9496895.88 9496895.95 9496896.02 0.1624 0.1401

Saturn 21290-05-18 18:00 G 9497211.18 9497211.25 9497211.33 0.0287 0.0253

Saturn 21290-08-15 12:14 G 9497299.87 9497300.01 9497300.16 0.0286 0.0123

Saturn 21290-11-12 06:00 G 9497388.59 9497388.75 9497388.91 0.0286 0.0009

Saturn 21291-02-08 23:16 G 9497477.33 9497477.47 9497477.61 0.0286 0.0129

Saturn 21291-05-08 16:04 G 9497566.10 9497566.17 9497566.25 0.0285 0.0248

Jupiter 21292-08-19 23:02 G 9498035.35 9498035.46 9498035.58 0.0502 0.0297

Jupiter 21292-11-17 09:21 G 9498124.77 9498124.89 9498125.01 0.0499 0.0278

Uranus 21295-07-13 04:04 G 9499092.62 9499092.67 9499092.71 0.0145 0.0137

Uranus 21295-10-09 09:07 G 9499180.79 9499180.88 9499180.97 0.0145 0.0115

Uranus 21296-01-05 14:09 G 9499268.97 9499269.09 9499269.21 0.0145 0.0091

Uranus 21296-04-02 19:12 G 9499357.17 9499357.30 9499357.44 0.0145 0.0068

Uranus 21296-06-30 00:14 G 9499445.37 9499445.51 9499445.66 0.0145 0.0045

Uranus 21296-09-26 05:31 G 9499533.58 9499533.73 9499533.89 0.0145 0.0021

Moon 21296-12-22 00:43 G 9499620.46 9499620.53 9499620.60 0.2687 0.2214

Earth 21296-12-22 00:43 G 9499620.46 9499620.53 9499620.59 0.2680 0.2215 *

Uranus 21296-12-23 10:48 G 9499621.80 9499621.95 9499622.11 0.0145 0.0004

Uranus 21297-03-21 16:04 G 9499710.02 9499710.17 9499710.33 0.0145 0.0027

Uranus 21297-06-17 21:21 G 9499798.25 9499798.39 9499798.54 0.0145 0.0052

Uranus 21297-09-14 02:52 G 9499886.49 9499886.62 9499886.75 0.0145 0.0076

Uranus 21297-12-11 08:09 G 9499974.74 9499974.84 9499974.96 0.0145 0.0101

Uranus 21298-03-09 13:26 G 9500063.00 9500063.06 9500063.15 0.0145 0.0126

Jupiter 21299-01-18 22:04 G 9500378.26 9500378.42 9500378.58 0.0527 0.0069

Mars 21300-11-03 11:31 G 9501031.87 9501031.98 9501032.10 0.1612 0.0882

Earth 21301-06-17 05:02 G 9501257.68 9501257.71 9501257.74 0.2651 0.2575

Earth 21303-12-16 16:04 G 9502170.14 9502170.17 9502170.19 0.2680 0.2582

Jupiter 21304-06-09 02:24 G 9502345.54 9502345.60 9502345.67 0.0503 0.0434

Jupiter 21304-09-06 12:28 G 9502434.88 9502435.02 9502435.16 0.0500 0.0137

Neptune 21304-10-30 12:43 G 9502489.00 9502489.03 9502489.06 0.0089 0.0088

Neptune 21305-01-26 14:52 G 9502577.06 9502577.12 9502577.21 0.0089 0.0079

Neptune 21305-04-24 17:31 G 9502665.14 9502665.23 9502665.34 0.0089 0.0070

Saturn 21305-05-27 12:00 G 9502697.95 9502698.00 9502698.06 0.0272 0.0248

Pluto 21305-07-04 15:07 G 9502736.04 9502736.13 9502736.25 0.0074 0.0062

Neptune 21305-07-21 20:09 G 9502753.22 9502753.34 9502753.46 0.0089 0.0061

Saturn 21305-08-24 01:12 G 9502786.43 9502786.55 9502786.67 0.0273 0.0151

Pluto 21305-09-30 17:45 G 9502824.09 9502824.24 9502824.40 0.0073 0.0046

Neptune 21305-10-17 22:19 G 9502841.32 9502841.43 9502841.58 0.0089 0.0054

Saturn 21305-11-20 14:38 G 9502874.97 9502875.11 9502875.26 0.0273 0.0052

Pluto 21305-12-27 20:24 G 9502912.17 9502912.35 9502912.53 0.0073 0.0030

Neptune 21306-01-14 00:57 G 9502929.41 9502929.54 9502929.70 0.0089 0.0045

Saturn 21306-02-17 04:19 G 9502963.54 9502963.68 9502963.83 0.0273 0.0050

Pluto 21306-03-25 22:48 G 9503000.26 9503000.45 9503000.65 0.0073 0.0014

Neptune 21306-04-12 03:36 G 9503017.50 9503017.65 9503017.81 0.0089 0.0036

Saturn 21306-05-16 18:28 G 9503052.15 9503052.27 9503052.40 0.0274 0.0153

Pluto 21306-06-22 01:26 G 9503088.36 9503088.56 9503088.76 0.0073 0.0002

Neptune 21306-07-09 06:00 G 9503105.60 9503105.75 9503105.92 0.0089 0.0027

Saturn 21306-08-13 08:38 G 9503140.83 9503140.86 9503140.92 0.0274 0.0260

Pluto 21306-09-18 03:36 G 9503176.47 9503176.65 9503176.85 0.0073 0.0018

Neptune 21306-10-05 08:38 G 9503193.70 9503193.86 9503194.03 0.0089 0.0018

Pluto 21306-12-15 06:14 G 9503264.59 9503264.76 9503264.94 0.0073 0.0033

Neptune 21307-01-01 11:02 G 9503281.80 9503281.96 9503282.13 0.0089 0.0010

Pluto 21307-03-13 08:24 G 9503352.72 9503352.85 9503353.01 0.0073 0.0049

Neptune 21307-03-30 13:40 G 9503369.90 9503370.07 9503370.23 0.0089 0.0002

Pluto 21307-06-09 11:02 G 9503440.87 9503440.96 9503441.05 0.0073 0.0064

Neptune 21307-06-26 16:04 G 9503458.00 9503458.17 9503458.33 0.0089 0.0007

Mars 21307-07-01 06:00 G 9503462.66 9503462.75 9503462.84 0.1927 0.1383

Neptune 21307-09-22 18:14 G 9503546.11 9503546.26 9503546.43 0.0089 0.0016

Neptune 21307-12-19 20:52 G 9503634.21 9503634.37 9503634.53 0.0089 0.0024

Neptune 21308-03-16 23:16 G 9503722.32 9503722.47 9503722.62 0.0089 0.0033

Neptune 21308-06-13 01:26 G 9503810.42 9503810.56 9503810.71 0.0089 0.0041

Neptune 21308-09-09 03:50 G 9503898.53 9503898.66 9503898.80 0.0089 0.0049

Neptune 21308-12-06 06:14 G 9503986.64 9503986.76 9503986.89 0.0089 0.0058

Neptune 21309-03-04 08:24 G 9504074.76 9504074.85 9504074.97 0.0089 0.0066

Neptune 21309-05-31 10:48 G 9504162.87 9504162.95 9504163.05 0.0089 0.0074

Neptune 21309-08-27 13:12 G 9504251.00 9504251.05 9504251.12 0.0089 0.0082

Mars 21310-03-26 19:12 G 9504462.17 9504462.30 9504462.44 0.1616 0.0158

Jupiter 21310-11-07 21:21 G 9504688.25 9504688.39 9504688.53 0.0526 0.0265

Jupiter 21311-02-05 20:09 G 9504778.28 9504778.34 9504778.40 0.0530 0.0486

Moon 21314-06-20 03:50 G 9506008.52 9506008.66 9506008.79 0.2648 0.0563

Earth 21314-06-20 04:48 G 9506008.57 9506008.70 9506008.84 0.2651 0.0506 *

Jupiter 21316-06-25 15:50 G 9506745.02 9506745.16 9506745.31 0.0501 0.0011

Mars 21316-11-20 09:50 G 9506892.77 9506892.91 9506893.04 0.1922 0.0138

Moon 21316-12-18 11:31 G 9506920.86 9506920.98 9506921.09 0.2682 0.0963

Earth 21316-12-18 12:28 G 9506920.90 9506921.02 9506921.13 0.2680 0.0917 *

Mars 21319-08-17 03:07 G 9507892.50 9507892.63 9507892.76 0.1620 0.0572

Venus 21319-10-11 06:57 G 9507947.70 9507947.79 9507947.88 0.3691 0.2461

Saturn 21320-01-03 11:45 G 9508031.86 9508031.99 9508032.13 0.0286 0.0165

Saturn 21320-04-01 05:45 G 9508120.58 9508120.74 9508120.90 0.0286 0.0037

Saturn 21320-06-28 23:02 G 9508209.31 9508209.46 9508209.62 0.0285 0.0088

Saturn 21320-09-25 16:04 G 9508298.06 9508298.17 9508298.28 0.0285 0.0208

Jupiter 21322-08-26 21:21 G 9508998.31 9508998.39 9508998.47 0.0525 0.0451

Jupiter 21322-11-24 20:38 G 9509088.23 9509088.36 9509088.49 0.0529 0.0309

Venus 21325-04-26 03:07 G 9509971.52 9509971.63 9509971.75 0.3692 0.0692

Mars 21326-04-12 12:57 G 9510322.94 9510323.04 9510323.15 0.1916 0.1189

Venus 21326-11-06 20:52 G 9510531.28 9510531.37 9510531.46 0.3679 0.2493

Moon 21327-06-23 03:21 G 9510759.52 9510759.64 9510759.75 0.2654 0.1286

Earth 21327-06-23 04:19 G 9510759.57 9510759.68 9510759.79 0.2651 0.1492 *

Jupiter 21328-04-13 19:12 G 9511055.16 9511055.30 9511055.44 0.0501 0.0139

Jupiter 21328-07-12 05:45 G 9511144.67 9511144.74 9511144.81 0.0498 0.0438

Mars 21329-01-06 11:02 G 9511322.88 9511322.96 9511323.04 0.1624 0.1297

Moon 21329-12-21 08:38 G 9511671.74 9511671.86 9511671.97 0.2686 0.0691

Earth 21329-12-21 08:52 G 9511671.76 9511671.87 9511671.99 0.2680 0.0814 *

Venus 21330-11-09 23:02 G 9511995.35 9511995.46 9511995.57 0.3692 0.1020

Venus 21332-05-22 18:00 G 9512555.13 9512555.25 9512555.37 0.3679 0.0670

Jupiter 21334-09-12 21:07 G 9513398.23 9513398.38 9513398.54 0.0528 0.0133

Saturn 21335-01-11 01:12 G 9513518.45 9513518.55 9513518.66 0.0273 0.0192

Saturn 21335-04-09 14:38 G 9513606.97 9513607.11 9513607.25 0.0273 0.0094

Saturn 21335-07-07 04:04 G 9513695.53 9513695.67 9513695.82 0.0274 0.0011

Saturn 21335-10-03 18:00 G 9513784.12 9513784.25 9513784.39 0.0274 0.0109

Saturn 21335-12-31 08:24 G 9513872.75 9513872.85 9513872.94 0.0274 0.0215

Venus 21336-05-25 18:28 G 9514019.20 9514019.27 9514019.35 0.3693 0.2658

Uranus 21337-08-04 09:21 G 9514454.82 9514454.89 9514454.98 0.0133 0.0115

Uranus 21337-10-31 14:09 G 9514542.98 9514543.09 9514543.21 0.0133 0.0095

Venus 21337-12-06 15:21 G 9514579.02 9514579.14 9514579.26 0.3678 0.1250

Uranus 21338-01-27 18:57 G 9514631.16 9514631.29 9514631.43 0.0133 0.0075

Uranus 21338-04-25 23:31 G 9514719.35 9514719.48 9514719.64 0.0133 0.0057

Uranus 21338-07-23 04:19 G 9514807.53 9514807.68 9514807.84 0.0133 0.0037

Uranus 21338-10-19 09:07 G 9514895.72 9514895.88 9514896.04 0.0133 0.0017

Uranus 21339-01-15 13:40 G 9514983.91 9514984.07 9514984.23 0.0133 0.0002

Uranus 21339-04-13 18:14 G 9515072.10 9515072.26 9515072.42 0.0133 0.0021

Uranus 21339-07-10 22:48 G 9515160.30 9515160.45 9515160.60 0.0133 0.0040

Uranus 21339-10-07 03:07 G 9515248.50 9515248.63 9515248.78 0.0133 0.0059

Uranus 21340-01-03 07:26 G 9515336.70 9515336.81 9515336.95 0.0133 0.0078

Jupiter 21340-01-31 22:33 G 9515365.32 9515365.44 9515365.55 0.0502 0.0278

Uranus 21340-03-31 12:00 G 9515424.90 9515425.00 9515425.11 0.0133 0.0095

Jupiter 21340-04-30 08:38 G 9515454.75 9515454.86 9515454.98 0.0499 0.0296

Mars 21340-05-04 11:45 G 9515458.88 9515458.99 9515459.10 0.1612 0.0995

Uranus 21340-06-27 16:33 G 9515513.11 9515513.19 9515513.27 0.0133 0.0114

Uranus 21340-09-23 20:52 G 9515601.35 9515601.37 9515601.39 0.0133 0.0132

Earth 21342-12-24 05:45 G 9516422.71 9516422.74 9516422.77 0.2680 0.2577

Moon 21342-12-24 06:00 G 9516422.73 9516422.75 9516422.77 0.2687 0.2646 *

Venus 21343-06-22 13:12 G 9516603.00 9516603.05 9516603.11 0.3678 0.3268

Jupiter 21346-07-01 21:07 G 9517708.22 9517708.38 9517708.54 0.0527 0.0053

Mars 21346-12-30 06:14 G 9517889.69 9517889.76 9517889.84 0.1928 0.1533

Moon 21347-06-18 09:50 G 9518059.84 9518059.91 9518059.99 0.2646 0.2221

Earth 21347-06-18 10:33 G 9518059.87 9518059.94 9518060.02 0.2651 0.2152 *

Saturn 21349-05-22 11:02 G 9518763.85 9518763.96 9518764.07 0.0287 0.0212

Saturn 21349-08-19 05:02 G 9518852.56 9518852.71 9518852.87 0.0286 0.0083

Mars 21349-09-24 19:26 G 9518889.17 9518889.31 9518889.45 0.1616 0.0259

Saturn 21349-11-15 22:48 G 9518941.29 9518941.45 9518941.61 0.0286 0.0045

Moon 21349-12-16 20:09 G 9518972.29 9518972.34 9518972.40 0.2679 0.2320

Earth 21349-12-16 21:07 G 9518972.32 9518972.38 9518972.44 0.2680 0.2242 *

Saturn 21350-02-12 15:50 G 9519030.04 9519030.16 9519030.29 0.0286 0.0168

Jupiter 21351-11-20 01:12 G 9519675.48 9519675.55 9519675.62 0.0503 0.0427

Jupiter 21352-02-17 11:02 G 9519764.83 9519764.96 9519765.10 0.0500 0.0145

Mars 21356-05-21 09:50 G 9521319.78 9521319.91 9521320.04 0.1922 0.0243

Jupiter 21358-04-19 20:52 G 9522018.23 9522018.37 9522018.51 0.0526 0.0243

Jupiter 21358-07-18 19:26 G 9522108.27 9522108.31 9522108.35 0.0529 0.0506

Mars 21359-02-15 03:21 G 9522319.50 9522319.64 9522319.77 0.1620 0.0472

Moon 21360-06-20 09:21 G 9522810.76 9522810.89 9522811.03 0.2649 0.0304

Earth 21360-06-20 10:33 G 9522810.80 9522810.94 9522811.07 0.2651 0.0100 *

Moon 21362-12-19 16:33 G 9523723.08 9523723.19 9523723.31 0.2682 0.0761

Earth 21362-12-19 17:31 G 9523723.11 9523723.23 9523723.35 0.2680 0.0562 *

Jupiter 21363-12-06 14:24 G 9524074.95 9524075.10 9524075.24 0.0501 0.0012

Saturn 21364-05-30 04:19 G 9524250.59 9524250.68 9524250.77 0.0272 0.0213

Saturn 21364-08-26 17:31 G 9524339.09 9524339.23 9524339.36 0.0273 0.0116

Saturn 21364-11-23 06:57 G 9524427.64 9524427.79 9524427.94 0.0273 0.0016

Saturn 21365-02-19 20:38 G 9524516.22 9524516.36 9524516.51 0.0273 0.0087

Saturn 21365-05-19 10:48 G 9524604.85 9524604.95 9524605.06 0.0274 0.0191

Mars 21365-10-11 13:26 G 9524749.94 9524750.06 9524750.17 0.1916 0.1050

Mars 21368-07-07 11:16 G 9525749.88 9525749.97 9525750.06 0.1624 0.1187

Jupiter 21370-02-05 19:40 G 9526328.24 9526328.32 9526328.41 0.0525 0.0443

Jupiter 21370-05-06 19:12 G 9526418.17 9526418.30 9526418.42 0.0529 0.0315

Moon 21373-06-23 08:52 G 9527561.78 9527561.87 9527561.97 0.2655 0.1867

Earth 21373-06-23 09:50 G 9527561.82 9527561.91 9527562.01 0.2651 0.1904 *

Jupiter 21375-09-24 17:45 G 9528385.11 9528385.24 9528385.38 0.0502 0.0133

Moon 21375-12-22 13:55 G 9528473.97 9528474.08 9528474.19 0.2687 0.1202

Earth 21375-12-22 14:09 G 9528473.98 9528474.09 9528474.20 0.2680 0.1165 *

Jupiter 21375-12-23 04:19 G 9528474.62 9528474.68 9528474.75 0.0498 0.0446

Venus 21376-05-17 05:45 G 9528620.64 9528620.74 9528620.84 0.3691 0.1893

Saturn 21378-10-09 11:02 G 9529495.88 9529495.96 9529496.03 0.0287 0.0252

Saturn 21379-01-06 05:16 G 9529584.57 9529584.72 9529584.86 0.0286 0.0121

Saturn 21379-04-04 23:02 G 9529673.30 9529673.46 9529673.62 0.0286 0.0007

Saturn 21379-07-02 16:19 G 9529762.04 9529762.18 9529762.32 0.0285 0.0130

Uranus 21379-08-03 11:16 G 9529793.92 9529793.97 9529794.04 0.0145 0.0131

Saturn 21379-09-29 09:07 G 9529850.81 9529850.88 9529850.95 0.0285 0.0249

Uranus 21379-10-30 16:19 G 9529882.09 9529882.18 9529882.29 0.0145 0.0108

Mars 21379-11-03 12:14 G 9529885.91 9529886.01 9529886.11 0.1612 0.1108

Uranus 21380-01-26 21:21 G 9529970.28 9529970.39 9529970.52 0.0145 0.0085

Uranus 21380-04-24 02:38 G 9530058.48 9530058.61 9530058.75 0.0145 0.0061

Uranus 21380-07-21 07:40 G 9530146.68 9530146.82 9530146.98 0.0145 0.0039

Uranus 21380-10-17 12:57 G 9530234.89 9530235.04 9530235.20 0.0145 0.0015

Uranus 21381-01-13 18:14 G 9530323.11 9530323.26 9530323.42 0.0145 0.0010

Uranus 21381-04-11 23:31 G 9530411.33 9530411.48 9530411.63 0.0145 0.0034

Uranus 21381-07-09 04:48 G 9530499.56 9530499.70 9530499.85 0.0145 0.0059

Uranus 21381-10-05 10:04 G 9530587.80 9530587.92 9530588.06 0.0145 0.0083

Venus 21381-12-01 01:55 G 9530644.46 9530644.58 9530644.69 0.3692 0.0184

Uranus 21382-01-01 15:50 G 9530676.05 9530676.16 9530676.26 0.0145 0.0107

Jupiter 21382-02-22 19:26 G 9530728.15 9530728.31 9530728.46 0.0528 0.0134

Uranus 21382-03-30 21:07 G 9530764.32 9530764.38 9530764.45 0.0145 0.0132

Venus 21383-06-13 19:40 G 9531204.22 9531204.32 9531204.43 0.3679 0.1918

Neptune 21386-02-01 00:00 G 9532167.46 9532167.50 9532167.57 0.0088 0.0082

Neptune 21386-04-30 02:09 G 9532255.51 9532255.59 9532255.67 0.0088 0.0074

Mars 21386-06-30 06:28 G 9532316.71 9532316.77 9532316.84 0.1928 0.1672

Neptune 21386-07-27 03:50 G 9532343.57 9532343.66 9532343.76 0.0088 0.0067

Neptune 21386-10-23 05:31 G 9532431.63 9532431.73 9532431.85 0.0088 0.0060

Neptune 21387-01-19 07:40 G 9532519.70 9532519.82 9532519.93 0.0088 0.0053

Neptune 21387-04-17 09:21 G 9532607.76 9532607.89 9532608.02 0.0088 0.0045

Venus 21387-06-16 21:36 G 9532668.29 9532668.40 9532668.51 0.3692 0.1560

Jupiter 21387-07-13 21:07 G 9532695.26 9532695.38 9532695.50 0.0502 0.0271

Neptune 21387-07-14 11:02 G 9532695.83 9532695.96 9532696.10 0.0088 0.0038

Neptune 21387-10-10 12:57 G 9532783.90 9532784.04 9532784.18 0.0088 0.0031

Jupiter 21387-10-11 07:26 G 9532784.69 9532784.81 9532784.92 0.0499 0.0303

Neptune 21388-01-06 14:52 G 9532871.98 9532872.12 9532872.27 0.0088 0.0023

Neptune 21388-04-03 16:48 G 9532960.05 9532960.20 9532960.35 0.0088 0.0016

Neptune 21388-06-30 18:28 G 9533048.12 9533048.27 9533048.42 0.0088 0.0008

Neptune 21388-09-26 20:24 G 9533136.20 9533136.35 9533136.50 0.0088 0.0002

Neptune 21388-12-23 22:19 G 9533224.28 9533224.43 9533224.58 0.0088 0.0007

Venus 21388-12-27 17:02 G 9533228.08 9533228.21 9533228.33 0.3678 0.0112

Neptune 21389-03-22 00:14 G 9533312.36 9533312.51 9533312.66 0.0088 0.0015

Mars 21389-03-25 19:40 G 9533316.19 9533316.32 9533316.46 0.1616 0.0370

Neptune 21389-06-18 01:55 G 9533400.44 9533400.58 9533400.73 0.0088 0.0023

Neptune 21389-09-14 03:50 G 9533488.52 9533488.66 9533488.81 0.0088 0.0030

Neptune 21389-12-11 05:45 G 9533576.61 9533576.74 9533576.88 0.0088 0.0038

Neptune 21390-03-09 07:40 G 9533664.70 9533664.82 9533664.96 0.0088 0.0045

Neptune 21390-06-05 09:21 G 9533752.79 9533752.89 9533753.03 0.0088 0.0054

Neptune 21390-09-01 11:31 G 9533840.88 9533840.98 9533841.10 0.0088 0.0061

Neptune 21390-11-28 13:26 G 9533928.97 9533929.06 9533929.16 0.0088 0.0068

Neptune 21391-02-24 15:21 G 9534017.07 9534017.14 9534017.23 0.0088 0.0076

Neptune 21391-05-23 17:02 G 9534105.19 9534105.21 9534105.28 0.0088 0.0085

Venus 21392-12-30 17:02 G 9534692.15 9534692.21 9534692.27 0.3693 0.3175

Moon 21393-06-18 15:36 G 9534862.05 9534862.15 9534862.24 0.2646 0.1831

Earth 21393-06-18 16:19 G 9534862.08 9534862.18 9534862.29 0.2651 0.1720 *

Saturn 21393-10-17 04:33 G 9534982.64 9534982.69 9534982.74 0.0273 0.0251

Jupiter 21393-12-11 19:40 G 9535038.16 9535038.32 9535038.48 0.0527 0.0046

Saturn 21394-01-13 17:31 G 9535071.12 9535071.23 9535071.35 0.0273 0.0156

Saturn 21394-04-12 06:57 G 9535159.65 9535159.79 9535159.94 0.0273 0.0057

Saturn 21394-07-09 20:38 G 9535248.21 9535248.36 9535248.51 0.0273 0.0044

Venus 21394-07-13 14:38 G 9535252.00 9535252.11 9535252.21 0.3678 0.1895

Saturn 21394-10-06 10:33 G 9535336.82 9535336.94 9535337.07 0.0274 0.0148

Saturn 21395-01-03 00:43 G 9535425.48 9535425.53 9535425.59 0.0274 0.0254

Mars 21395-11-20 10:04 G 9535746.79 9535746.92 9535747.05 0.1922 0.0392

Moon 21395-12-18 01:26 G 9535774.48 9535774.56 9535774.63 0.2680 0.2033

Earth 21395-12-18 02:09 G 9535774.51 9535774.59 9535774.68 0.2680 0.1898 *

Mars 21398-08-16 03:36 G 9536746.51 9536746.65 9536746.78 0.1620 0.0364

Jupiter 21399-05-02 00:28 G 9537005.44 9537005.52 9537005.60 0.0503 0.0409

Jupiter 21399-07-30 10:33 G 9537094.80 9537094.94 9537095.07 0.0500 0.0162

Mars 21405-04-12 13:40 G 9539176.95 9539177.07 9539177.19 0.1916 0.0903

Jupiter 21405-09-30 19:40 G 9539348.18 9539348.32 9539348.47 0.0526 0.0229

Jupiter 21405-12-29 18:28 G 9539438.24 9539438.27 9539438.29 0.0529 0.0521

Moon 21406-06-22 14:52 G 9539612.99 9539613.12 9539613.26 0.2651 0.0247

Earth 21406-06-22 16:04 G 9539613.04 9539613.17 9539613.30 0.2651 0.0327 *

Mars 21408-01-07 11:16 G 9540176.87 9540176.97 9540177.08 0.1624 0.1087

Saturn 21408-05-26 04:19 G 9540316.55 9540316.68 9540316.81 0.0287 0.0168

Saturn 21408-08-22 22:19 G 9540405.27 9540405.43 9540405.59 0.0286 0.0039

Saturn 21408-11-19 15:50 G 9540494.01 9540494.16 9540494.31 0.0286 0.0087

Moon 21408-12-20 21:50 G 9540525.29 9540525.41 9540525.54 0.2683 0.0278

Earth 21408-12-20 22:48 G 9540525.33 9540525.45 9540525.57 0.2680 0.0219 *

Saturn 21409-02-16 08:52 G 9540582.77 9540582.87 9540582.98 0.0286 0.0208

Jupiter 21411-05-19 12:57 G 9541404.89 9541405.04 9541405.18 0.0501 0.0013

Jupiter 21417-07-19 19:12 G 9543658.21 9543658.30 9543658.40 0.0525 0.0421

Jupiter 21417-10-17 18:28 G 9543748.15 9543748.27 9543748.39 0.0528 0.0335

Mars 21419-05-05 12:14 G 9544312.92 9544313.01 9544313.11 0.1612 0.1216

Moon 21419-06-25 14:38 G 9544364.03 9544364.11 9544364.19 0.2655 0.2103

Earth 21419-06-25 15:36 G 9544364.08 9544364.15 9544364.21 0.2651 0.2304 *

Uranus 21421-05-29 11:16 G 9545067.95 9545067.97 9545068.01 0.0133 0.0131

Uranus 21421-08-25 16:19 G 9545156.09 9545156.18 9545156.27 0.0133 0.0111

Uranus 21421-11-21 20:52 G 9545244.26 9545244.37 9545244.49 0.0133 0.0091

Moon 21421-12-23 19:12 G 9545276.20 9545276.30 9545276.40 0.2687 0.1425

Earth 21421-12-23 19:26 G 9545276.21 9545276.31 9545276.41 0.2680 0.1523 *

Uranus 21422-02-18 01:40 G 9545332.44 9545332.57 9545332.71 0.0133 0.0072

Uranus 21422-05-17 06:28 G 9545420.62 9545420.77 9545420.92 0.0133 0.0052

Uranus 21422-08-13 11:16 G 9545508.81 9545508.97 9545509.12 0.0133 0.0033

Uranus 21422-11-09 15:50 G 9545597.00 9545597.16 9545597.32 0.0133 0.0013

Uranus 21423-02-05 20:24 G 9545685.19 9545685.35 9545685.51 0.0133 0.0006

Saturn 21423-03-07 07:40 G 9545714.81 9545714.82 9545714.83 0.0272 0.0270

Jupiter 21423-03-07 16:04 G 9545715.03 9545715.17 9545715.31 0.0502 0.0133

Uranus 21423-05-05 00:57 G 9545773.39 9545773.54 9545773.70 0.0133 0.0025

Saturn 21423-06-03 20:38 G 9545803.25 9545803.36 9545803.47 0.0272 0.0175

Jupiter 21423-06-05 02:38 G 9545804.55 9545804.61 9545804.67 0.0499 0.0446

Uranus 21423-08-01 05:31 G 9545861.58 9545861.73 9545861.88 0.0133 0.0043

Saturn 21423-08-31 09:50 G 9545891.77 9545891.91 9545892.06 0.0273 0.0078

Uranus 21423-10-28 09:50 G 9545949.78 9545949.91 9545950.06 0.0133 0.0062

Saturn 21423-11-27 23:31 G 9545980.33 9545980.48 9545980.63 0.0273 0.0024

Uranus 21424-01-24 14:24 G 9546037.98 9546038.10 9546038.23 0.0133 0.0081

Saturn 21424-02-24 13:26 G 9546068.93 9546069.06 9546069.20 0.0273 0.0126

Uranus 21424-04-21 18:43 G 9546126.18 9546126.28 9546126.39 0.0133 0.0099

Saturn 21424-05-23 03:36 G 9546157.58 9546157.65 9546157.73 0.0274 0.0232

Uranus 21424-07-18 23:02 G 9546214.40 9546214.46 9546214.54 0.0133 0.0118

Mars 21425-12-30 06:43 G 9546743.73 9546743.78 9546743.82 0.1928 0.1793

Venus 21427-06-09 08:09 G 9547269.78 9547269.84 9547269.90 0.3691 0.3135

Mars 21428-09-24 19:55 G 9547743.20 9547743.33 9547743.47 0.1616 0.0481

Jupiter 21429-08-05 17:45 G 9548058.09 9548058.24 9548058.39 0.0528 0.0139

Venus 21432-12-23 04:19 G 9549293.57 9549293.68 9549293.80 0.3692 0.1326

Venus 21434-07-05 21:50 G 9549853.35 9549853.41 9549853.47 0.3679 0.3123

Jupiter 21434-12-24 19:40 G 9550025.20 9550025.32 9550025.44 0.0503 0.0269

Jupiter 21435-03-24 05:45 G 9550114.63 9550114.74 9550114.86 0.0499 0.0308

Mars 21435-05-22 10:33 G 9550173.81 9550173.94 9550174.06 0.1923 0.0535

Saturn 21437-10-13 04:48 G 9551048.59 9551048.70 9551048.82 0.0287 0.0205

Saturn 21438-01-09 23:02 G 9551137.30 9551137.46 9551137.61 0.0286 0.0075

Mars 21438-02-15 03:50 G 9551173.52 9551173.66 9551173.80 0.1620 0.0250

Saturn 21438-04-08 16:33 G 9551226.04 9551226.19 9551226.35 0.0286 0.0052

Saturn 21438-07-06 09:36 G 9551314.78 9551314.90 9551315.03 0.0286 0.0175

Venus 21438-07-09 00:28 G 9551317.40 9551317.52 9551317.64 0.3692 0.0426

Moon 21439-06-20 21:07 G 9551664.27 9551664.38 9551664.50 0.2646 0.1421

Earth 21439-06-20 22:04 G 9551664.30 9551664.42 9551664.54 0.2651 0.1298 *

Venus 21440-01-19 18:43 G 9551877.17 9551877.28 9551877.40 0.3679 0.1324

Jupiter 21441-05-24 17:45 G 9552368.08 9552368.24 9552368.40 0.0527 0.0046

Moon 21441-12-19 06:28 G 9552576.68 9552576.77 9552576.86 0.2680 0.1679

Earth 21441-12-19 07:26 G 9552576.71 9552576.81 9552576.91 0.2680 0.1551 *

Venus 21444-01-22 20:09 G 9553341.24 9553341.34 9553341.44 0.3693 0.2095

Mars 21444-10-11 13:55 G 9553603.96 9553604.08 9553604.21 0.1916 0.0763

Venus 21445-08-04 16:04 G 9553901.04 9553901.17 9553901.29 0.3678 0.0564

Jupiter 21446-10-12 23:02 G 9554335.38 9554335.46 9554335.54 0.0503 0.0405

Jupiter 21447-01-10 08:52 G 9554424.74 9554424.87 9554425.01 0.0500 0.0167

Mars 21447-07-08 11:31 G 9554603.88 9554603.98 9554604.09 0.1624 0.0980

Venus 21449-08-07 15:36 G 9555365.15 9555365.15 9555365.15 0.3693 0.3692

Venus 21451-02-18 13:40 G 9555924.98 9555925.07 9555925.16 0.3678 0.2539

Moon 21452-06-22 20:38 G 9556415.23 9556415.36 9556415.49 0.2653 0.0577

Earth 21452-06-22 21:50 G 9556415.28 9556415.41 9556415.54 0.2651 0.0746 *

Saturn 21452-10-20 21:07 G 9556535.30 9556535.38 9556535.48 0.0272 0.0213

Saturn 21453-01-17 10:19 G 9556623.80 9556623.93 9556624.07 0.0273 0.0116

Jupiter 21453-03-12 18:00 G 9556678.10 9556678.25 9556678.39 0.0526 0.0227

Saturn 21453-04-16 00:00 G 9556712.35 9556712.50 9556712.64 0.0273 0.0018

Jupiter 21453-06-10 16:48 G 9556768.18 9556768.20 9556768.22 0.0530 0.0525

Saturn 21453-07-13 13:40 G 9556800.93 9556801.07 9556801.21 0.0273 0.0086

Saturn 21453-10-10 03:36 G 9556889.55 9556889.65 9556889.76 0.0274 0.0190

Moon 21454-12-22 03:21 G 9557327.52 9557327.64 9557327.76 0.2685 0.0055

Earth 21454-12-22 03:50 G 9557327.54 9557327.66 9557327.79 0.2680 0.0163 *

Jupiter 21458-10-29 12:14 G 9558734.86 9558735.01 9558735.15 0.0501 0.0028

Mars 21458-11-03 12:28 G 9558739.95 9558740.02 9558740.10 0.1612 0.1327

Uranus 21463-08-24 18:28 G 9560495.21 9560495.27 9560495.35 0.0145 0.0126

Uranus 21463-11-20 23:31 G 9560583.38 9560583.48 9560583.60 0.0145 0.0103

Uranus 21464-02-17 04:48 G 9560671.57 9560671.70 9560671.83 0.0145 0.0079

Uranus 21464-05-15 09:50 G 9560759.77 9560759.91 9560760.05 0.0145 0.0056

Uranus 21464-08-11 15:07 G 9560847.98 9560848.13 9560848.28 0.0145 0.0032

Uranus 21464-11-07 20:09 G 9560936.19 9560936.34 9560936.50 0.0145 0.0009

Jupiter 21464-12-29 18:00 G 9560988.15 9560988.25 9560988.35 0.0525 0.0410

Uranus 21465-02-04 01:26 G 9561024.41 9561024.56 9561024.72 0.0145 0.0016

Jupiter 21465-03-29 17:16 G 9561078.10 9561078.22 9561078.33 0.0529 0.0347

Uranus 21465-05-03 06:43 G 9561112.63 9561112.78 9561112.93 0.0145 0.0040

Uranus 21465-07-30 12:00 G 9561200.87 9561201.00 9561201.15 0.0145 0.0064

Uranus 21465-10-26 17:16 G 9561289.11 9561289.22 9561289.35 0.0145 0.0089

Uranus 21466-01-22 22:48 G 9561377.36 9561377.45 9561377.55 0.0145 0.0113

Uranus 21466-04-21 04:19 G 9561465.64 9561465.68 9561465.73 0.0145 0.0138

Saturn 21467-03-02 03:36 G 9561780.58 9561780.65 9561780.73 0.0287 0.0253

Pluto 21467-03-25 00:43 G 9561803.53 9561803.53 9561803.54 0.0070 0.0070

Saturn 21467-05-29 22:04 G 9561869.27 9561869.42 9561869.56 0.0287 0.0122

Pluto 21467-06-21 00:57 G 9561891.49 9561891.54 9561891.62 0.0070 0.0061

Saturn 21467-08-26 15:50 G 9561958.00 9561958.16 9561958.32 0.0286 0.0007

Pluto 21467-09-17 01:55 G 9561979.50 9561979.58 9561979.67 0.0070 0.0051

Saturn 21467-11-23 09:07 G 9562046.75 9562046.88 9562047.03 0.0286 0.0131

Pluto 21467-12-14 02:24 G 9562067.50 9562067.60 9562067.71 0.0070 0.0042

Moon 21467-12-25 00:28 G 9562078.44 9562078.52 9562078.60 0.2687 0.1935

Earth 21467-12-25 00:43 G 9562078.44 9562078.53 9562078.61 0.2680 0.1885 *

Saturn 21468-02-20 01:55 G 9562135.52 9562135.58 9562135.66 0.0286 0.0252

Pluto 21468-03-11 03:07 G 9562155.52 9562155.63 9562155.75 0.0070 0.0033

Mars 21468-03-25 20:09 G 9562170.21 9562170.34 9562170.47 0.1616 0.0586

Pluto 21468-06-07 03:36 G 9562243.53 9562243.65 9562243.78 0.0071 0.0024

Pluto 21468-09-03 04:19 G 9562331.56 9562331.68 9562331.81 0.0071 0.0014

Pluto 21468-11-30 05:02 G 9562419.58 9562419.71 9562419.84 0.0071 0.0004

Pluto 21469-02-26 05:31 G 9562507.61 9562507.73 9562507.87 0.0071 0.0006

Pluto 21469-05-25 06:14 G 9562595.63 9562595.76 9562595.89 0.0071 0.0015

Neptune 21469-07-28 11:45 G 9562659.95 9562659.99 9562660.06 0.0089 0.0083

Pluto 21469-08-21 06:43 G 9562683.67 9562683.78 9562683.91 0.0071 0.0025

Neptune 21469-10-24 14:24 G 9562748.02 9562748.10 9562748.20 0.0089 0.0074

Pluto 21469-11-17 07:40 G 9562771.70 9562771.82 9562771.93 0.0071 0.0035

Neptune 21470-01-20 17:02 G 9562836.11 9562836.21 9562836.33 0.0089 0.0066

Pluto 21470-02-13 08:09 G 9562859.74 9562859.84 9562859.95 0.0071 0.0045

Neptune 21470-04-18 19:26 G 9562924.20 9562924.31 9562924.45 0.0089 0.0057

Pluto 21470-05-12 08:38 G 9562947.79 9562947.86 9562947.96 0.0071 0.0055

Neptune 21470-07-15 22:04 G 9563012.29 9563012.42 9563012.57 0.0089 0.0048

Pluto 21470-08-08 09:21 G 9563035.84 9563035.89 9563035.95 0.0072 0.0065

Jupiter 21470-08-17 14:38 G 9563044.97 9563045.11 9563045.24 0.0502 0.0130

Neptune 21470-10-12 00:43 G 9563100.38 9563100.53 9563100.68 0.0089 0.0039

Jupiter 21470-11-15 01:12 G 9563134.49 9563134.55 9563134.61 0.0499 0.0450

Neptune 21471-01-08 03:07 G 9563188.48 9563188.63 9563188.79 0.0089 0.0031

Neptune 21471-04-06 05:45 G 9563276.58 9563276.74 9563276.90 0.0089 0.0022

Neptune 21471-07-03 08:09 G 9563364.68 9563364.84 9563365.01 0.0089 0.0014

Neptune 21471-09-29 10:33 G 9563452.78 9563452.94 9563453.11 0.0089 0.0006

Neptune 21471-12-26 13:12 G 9563540.88 9563541.05 9563541.21 0.0089 0.0004

Neptune 21472-03-23 15:36 G 9563628.99 9563629.15 9563629.31 0.0089 0.0012

Neptune 21472-06-19 18:00 G 9563717.09 9563717.25 9563717.41 0.0089 0.0021

Neptune 21472-09-15 20:09 G 9563805.19 9563805.34 9563805.51 0.0089 0.0029

Neptune 21472-12-12 22:33 G 9563893.30 9563893.44 9563893.60 0.0089 0.0038

Neptune 21473-03-11 01:12 G 9563981.41 9563981.55 9563981.69 0.0089 0.0046

Neptune 21473-06-07 03:21 G 9564069.52 9564069.64 9564069.78 0.0089 0.0054

Neptune 21473-09-03 05:45 G 9564157.63 9564157.74 9564157.86 0.0089 0.0062

Neptune 21473-11-30 08:09 G 9564245.75 9564245.84 9564245.94 0.0089 0.0071

Neptune 21474-02-26 10:04 G 9564333.87 9564333.92 9564334.02 0.0089 0.0080

Neptune 21474-05-25 12:28 G 9564422.01 9564422.02 9564422.07 0.0089 0.0088

Mars 21474-11-20 10:48 G 9564600.82 9564600.95 9564601.07 0.1922 0.0668

Jupiter 21477-01-15 17:02 G 9565388.06 9565388.21 9565388.36 0.0527 0.0159

Mars 21477-08-16 04:04 G 9565600.53 9565600.67 9565600.81 0.1620 0.0149

Saturn 21482-03-10 00:28 G 9567267.45 9567267.52 9567267.60 0.0272 0.0231

Jupiter 21482-06-05 17:45 G 9567355.12 9567355.24 9567355.36 0.0503 0.0271

Saturn 21482-06-06 13:40 G 9567355.94 9567356.07 9567356.19 0.0272 0.0135

Saturn 21482-09-03 02:52 G 9567444.48 9567444.62 9567444.77 0.0273 0.0037

Jupiter 21482-09-03 03:50 G 9567444.55 9567444.66 9567444.78 0.0500 0.0306 *

Saturn 21482-11-30 16:48 G 9567533.05 9567533.20 9567533.34 0.0273 0.0066

Saturn 21483-02-27 06:43 G 9567621.66 9567621.78 9567621.90 0.0273 0.0170

Venus 21484-01-14 06:57 G 9567942.70 9567942.79 9567942.87 0.3691 0.2549

Mars 21484-04-11 14:09 G 9568030.96 9568031.09 9568031.22 0.1917 0.0631

Moon 21485-06-21 02:52 G 9568466.49 9568466.62 9568466.74 0.2648 0.0956

Earth 21485-06-21 03:36 G 9568466.53 9568466.65 9568466.78 0.2651 0.0875 *

Mars 21487-01-06 12:00 G 9569030.88 9569031.00 9569031.11 0.1624 0.0871

Moon 21487-12-20 11:45 G 9569378.88 9569378.99 9569379.09 0.2680 0.1310

Earth 21487-12-20 12:43 G 9569378.92 9569379.03 9569379.14 0.2680 0.1203 *

Jupiter 21488-11-03 16:04 G 9569698.01 9569698.17 9569698.33 0.0527 0.0042

Venus 21489-07-30 03:07 G 9569966.51 9569966.63 9569966.75 0.3692 0.0748

Venus 21491-02-09 20:38 G 9570526.28 9570526.36 9570526.45 0.3679 0.2555

Jupiter 21494-03-24 21:21 G 9571665.31 9571665.39 9571665.47 0.0504 0.0405

Jupiter 21494-06-22 07:12 G 9571754.67 9571754.80 9571754.94 0.0500 0.0168

Venus 21495-02-12 23:02 G 9571990.35 9571990.46 9571990.58 0.3692 0.0978

Mars 21496-05-28 19:55 G 9572461.30 9572461.33 9572461.35 0.1628 0.1589

Saturn 21496-07-19 04:48 G 9572512.69 9572512.70 9572512.71 0.0287 0.0285

Venus 21496-08-25 17:45 G 9572550.12 9572550.24 9572550.36 0.3679 0.0728

Saturn 21496-10-15 23:02 G 9572601.33 9572601.46 9572601.61 0.0287 0.0154

Saturn 21497-01-12 17:16 G 9572690.06 9572690.22 9572690.38 0.0286 0.0026

Saturn 21497-04-11 10:33 G 9572778.79 9572778.94 9572779.09 0.0286 0.0101

Saturn 21497-07-09 03:36 G 9572867.55 9572867.65 9572867.75 0.0286 0.0222

Mars 21498-05-04 12:57 G 9573166.98 9573167.04 9573167.10 0.1612 0.1443

Moon 21498-06-24 02:09 G 9573217.47 9573217.59 9573217.72 0.2653 0.1005

Earth 21498-06-24 03:21 G 9573217.52 9573217.64 9573217.76 0.2651 0.1153 *

Jupiter 21500-08-23 15:50 G 9574008.02 9574008.16 9574008.30 0.0526 0.0230

Venus 21500-08-29 18:43 G 9574014.20 9574014.28 9574014.36 0.3693 0.2625

Jupiter 21500-11-21 14:38 G 9574098.09 9574098.11 9574098.13 0.0530 0.0521

Moon 21500-12-23 08:38 G 9574129.74 9574129.86 9574129.98 0.2686 0.0435

Earth 21500-12-23 09:07 G 9574129.76 9574129.88 9574130.00 0.2680 0.0497 *

Venus 21502-03-12 15:07 G 9574574.01 9574574.13 9574574.25 0.3678 0.1185

Uranus 21505-06-19 18:00 G 9575769.21 9575769.25 9575769.31 0.0133 0.0127

Uranus 21505-09-15 23:02 G 9575857.37 9575857.46 9575857.56 0.0133 0.0106

Uranus 21505-12-13 03:36 G 9575945.54 9575945.65 9575945.78 0.0133 0.0087

Uranus 21506-03-11 08:24 G 9576033.72 9576033.85 9576034.00 0.0133 0.0068

Jupiter 21506-04-11 10:33 G 9576064.80 9576064.94 9576065.08 0.0501 0.0027

Uranus 21506-06-07 13:12 G 9576121.91 9576122.05 9576122.21 0.0133 0.0048

Uranus 21506-09-03 18:00 G 9576210.10 9576210.25 9576210.41 0.0133 0.0028

Uranus 21506-11-30 22:33 G 9576298.29 9576298.44 9576298.60 0.0133 0.0010

Uranus 21507-02-27 03:21 G 9576386.48 9576386.64 9576386.80 0.0133 0.0010

Uranus 21507-05-26 07:40 G 9576474.67 9576474.82 9576474.98 0.0133 0.0029

Uranus 21507-08-22 12:28 G 9576562.87 9576563.02 9576563.16 0.0133 0.0048

Mars 21507-09-25 20:24 G 9576597.23 9576597.35 9576597.48 0.1615 0.0702

Venus 21507-09-26 12:57 G 9576597.98 9576598.04 9576598.10 0.3678 0.3190

Uranus 21507-11-18 16:48 G 9576651.07 9576651.20 9576651.34 0.0133 0.0066

Uranus 21508-02-14 21:07 G 9576739.27 9576739.38 9576739.51 0.0133 0.0085

Uranus 21508-05-13 01:26 G 9576827.48 9576827.56 9576827.67 0.0133 0.0104

Uranus 21508-08-09 06:00 G 9576915.70 9576915.75 9576915.82 0.0133 0.0122

Saturn 21511-07-29 01:26 G 9577999.53 9577999.56 9577999.59 0.0272 0.0265

Saturn 21511-10-25 14:24 G 9578087.99 9578088.10 9578088.22 0.0273 0.0170

Saturn 21512-01-22 03:36 G 9578176.51 9578176.65 9578176.80 0.0273 0.0073

Saturn 21512-04-19 17:16 G 9578265.07 9578265.22 9578265.37 0.0273 0.0028

Jupiter 21512-06-11 15:50 G 9578318.06 9578318.16 9578318.26 0.0525 0.0414

Saturn 21512-07-17 06:57 G 9578353.67 9578353.79 9578353.93 0.0273 0.0132

Jupiter 21512-09-09 15:07 G 9578408.01 9578408.13 9578408.25 0.0529 0.0345

Saturn 21512-10-13 21:07 G 9578442.31 9578442.38 9578442.46 0.0274 0.0237

Moon 21513-12-26 05:45 G 9578880.68 9578880.74 9578880.81 0.2686 0.2210

Earth 21513-12-26 05:45 G 9578880.68 9578880.74 9578880.81 0.2680 0.2245 *

Mars 21514-05-22 11:02 G 9579027.84 9579027.96 9579028.08 0.1923 0.0805

Mars 21517-02-15 04:04 G 9580027.54 9580027.67 9580027.81 0.1619 0.0066

Jupiter 21518-01-28 13:40 G 9580374.93 9580375.07 9580375.21 0.0502 0.0114

Jupiter 21518-04-28 00:14 G 9580464.46 9580464.51 9580464.56 0.0498 0.0464

Moon 21518-06-20 08:52 G 9580517.83 9580517.87 9580517.91 0.2645 0.2513

Earth 21518-06-20 09:21 G 9580517.85 9580517.89 9580517.93 0.2651 0.2537 *

Moon 21520-12-18 20:38 G 9581430.33 9581430.36 9581430.39 0.2677 0.2554

Earth 21520-12-18 21:21 G 9581430.36 9581430.39 9581430.43 0.2680 0.2520 *

Mars 21523-10-12 14:38 G 9582457.98 9582458.11 9582458.24 0.1917 0.0476

Jupiter 21524-06-28 15:36 G 9582718.00 9582718.15 9582718.30 0.0528 0.0166

Saturn 21526-03-05 22:04 G 9583333.31 9583333.42 9583333.54 0.0287 0.0201

Saturn 21526-06-02 16:19 G 9583422.02 9583422.18 9583422.33 0.0287 0.0071

Mars 21526-07-08 12:00 G 9583457.88 9583458.00 9583458.12 0.1624 0.0766

Saturn 21526-08-30 09:50 G 9583510.76 9583510.91 9583511.07 0.0286 0.0057

Saturn 21526-11-27 03:07 G 9583599.51 9583599.63 9583599.75 0.0286 0.0179

Jupiter 21529-11-16 16:04 G 9584685.05 9584685.17 9584685.29 0.0503 0.0268

Jupiter 21530-02-14 02:24 G 9584774.48 9584774.60 9584774.71 0.0499 0.0307

Moon 21531-06-23 08:24 G 9585268.71 9585268.85 9585268.98 0.2650 0.0656

Earth 21531-06-23 09:21 G 9585268.76 9585268.89 9585269.02 0.2652 0.0449 *

Mars 21533-03-03 17:45 G 9585888.20 9585888.24 9585888.28 0.1911 0.1805

Moon 21533-12-21 17:02 G 9586181.09 9586181.21 9586181.32 0.2681 0.1015

Earth 21533-12-21 17:45 G 9586181.13 9586181.24 9586181.36 0.2680 0.0857 *

Mars 21535-11-28 20:09 G 9586888.28 9586888.34 9586888.39 0.1628 0.1487

Jupiter 21536-04-16 15:21 G 9587027.98 9587028.14 9587028.30 0.0527 0.0024

Mars 21537-11-03 13:12 G 9587594.01 9587594.05 9587594.08 0.1612 0.1552

Venus 21540-08-21 05:31 G 9588615.63 9588615.73 9588615.84 0.3691 0.1967

Saturn 21541-03-13 17:31 G 9588820.13 9588820.23 9588820.34 0.0272 0.0189

Saturn 21541-06-10 06:57 G 9588908.65 9588908.79 9588908.93 0.0273 0.0091

Jupiter 21541-09-04 19:12 G 9588995.23 9588995.30 9588995.38 0.0504 0.0410

Saturn 21541-09-06 20:24 G 9588997.20 9588997.35 9588997.50 0.0273 0.0010

Jupiter 21541-12-03 05:16 G 9589084.58 9589084.72 9589084.86 0.0500 0.0162

Saturn 21541-12-04 10:19 G 9589085.79 9589085.93 9589086.06 0.0273 0.0112

Saturn 21542-03-03 00:14 G 9589174.43 9589174.51 9589174.61 0.0273 0.0217

Moon 21544-06-25 07:55 G 9590019.72 9590019.83 9590019.94 0.2653 0.1434

Earth 21544-06-25 09:07 G 9590019.77 9590019.88 9590019.98 0.2652 0.1566 *

Venus 21546-03-07 01:55 G 9590639.46 9590639.58 9590639.69 0.3692 0.0225

Moon 21546-12-24 13:55 G 9590931.96 9590932.08 9590932.19 0.2686 0.0797

Earth 21546-12-24 14:24 G 9590931.98 9590932.10 9590932.21 0.2680 0.0855 *

Mars 21547-03-26 20:38 G 9591024.24 9591024.36 9591024.48 0.1616 0.0812

Uranus 21547-06-18 20:38 G 9591108.34 9591108.36 9591108.38 0.0145 0.0143

Uranus 21547-09-15 01:40 G 9591196.49 9591196.57 9591196.65 0.0145 0.0120

Venus 21547-09-17 19:40 G 9591199.21 9591199.32 9591199.42 0.3679 0.1981

Uranus 21547-12-12 06:43 G 9591284.67 9591284.78 9591284.89 0.0145 0.0097

Jupiter 21548-02-03 13:55 G 9591337.94 9591338.08 9591338.23 0.0526 0.0228

Uranus 21548-03-09 11:45 G 9591372.86 9591372.99 9591373.12 0.0145 0.0074

Jupiter 21548-05-03 12:43 G 9591428.01 9591428.03 9591428.05 0.0529 0.0522

Uranus 21548-06-05 16:48 G 9591461.06 9591461.20 9591461.35 0.0145 0.0051

Uranus 21548-09-01 22:04 G 9591549.27 9591549.42 9591549.57 0.0145 0.0027

Uranus 21548-11-29 03:07 G 9591637.48 9591637.63 9591637.79 0.0145 0.0006

Uranus 21549-02-25 08:24 G 9591725.70 9591725.85 9591726.01 0.0145 0.0021

Uranus 21549-05-24 13:40 G 9591813.93 9591814.07 9591814.22 0.0145 0.0045

Uranus 21549-08-20 18:57 G 9591902.16 9591902.29 9591902.43 0.0145 0.0069

Uranus 21549-11-17 00:14 G 9591990.40 9591990.51 9591990.64 0.0145 0.0094

Uranus 21550-02-13 05:45 G 9592078.66 9592078.74 9592078.84 0.0145 0.0118

Uranus 21550-05-12 11:16 G 9592166.95 9592166.97 9592167.00 0.0145 0.0143

Neptune 21550-08-03 22:04 G 9592250.39 9592250.42 9592250.47 0.0088 0.0085

Neptune 21550-10-30 23:45 G 9592338.44 9592338.49 9592338.57 0.0088 0.0078

Neptune 21551-01-27 01:55 G 9592426.49 9592426.58 9592426.67 0.0088 0.0071

Neptune 21551-04-25 03:21 G 9592514.55 9592514.64 9592514.75 0.0088 0.0064

Neptune 21551-07-22 05:16 G 9592602.61 9592602.72 9592602.84 0.0088 0.0056

Venus 21551-09-20 21:36 G 9592663.30 9592663.40 9592663.51 0.3693 0.1526

Neptune 21551-10-18 07:12 G 9592690.68 9592690.80 9592690.93 0.0088 0.0049

Neptune 21552-01-14 08:52 G 9592778.75 9592778.87 9592779.01 0.0088 0.0042

Neptune 21552-04-11 10:48 G 9592866.82 9592866.95 9592867.09 0.0088 0.0034

Neptune 21552-07-08 12:43 G 9592954.89 9592955.03 9592955.17 0.0088 0.0026

Neptune 21552-10-04 14:24 G 9593042.96 9593043.10 9593043.25 0.0088 0.0019

Neptune 21552-12-31 16:19 G 9593131.03 9593131.18 9593131.33 0.0088 0.0012

Neptune 21553-03-29 18:14 G 9593219.11 9593219.26 9593219.41 0.0088 0.0004

Venus 21553-04-02 16:48 G 9593223.07 9593223.20 9593223.32 0.3679 0.0158

Pluto 21553-05-05 22:33 G 9593256.34 9593256.44 9593256.56 0.0074 0.0061

Neptune 21553-06-25 20:09 G 9593307.19 9593307.34 9593307.49 0.0088 0.0004

Pluto 21553-08-02 00:57 G 9593344.40 9593344.54 9593344.71 0.0073 0.0045

Jupiter 21553-09-21 08:38 G 9593394.72 9593394.86 9593395.00 0.0501 0.0025

Neptune 21553-09-21 21:50 G 9593395.27 9593395.41 9593395.57 0.0088 0.0011

Pluto 21553-10-29 03:36 G 9593432.48 9593432.65 9593432.84 0.0073 0.0029

Mars 21553-11-20 11:16 G 9593454.86 9593454.97 9593455.09 0.1923 0.0960

Neptune 21553-12-18 23:45 G 9593483.35 9593483.49 9593483.64 0.0088 0.0019

Pluto 21554-01-25 06:14 G 9593520.57 9593520.76 9593520.96 0.0073 0.0012

Neptune 21554-03-17 01:40 G 9593571.43 9593571.57 9593571.72 0.0088 0.0026

Pluto 21554-04-23 08:38 G 9593608.67 9593608.86 9593609.06 0.0073 0.0004

Neptune 21554-06-13 03:21 G 9593659.51 9593659.64 9593659.79 0.0088 0.0034

Pluto 21554-07-20 11:16 G 9593696.78 9593696.97 9593697.16 0.0073 0.0019

Neptune 21554-09-09 05:31 G 9593747.60 9593747.73 9593747.86 0.0088 0.0041

Pluto 21554-10-16 13:26 G 9593784.90 9593785.06 9593785.24 0.0073 0.0035

Neptune 21554-12-06 07:12 G 9593835.68 9593835.80 9593835.94 0.0088 0.0049

Pluto 21555-01-12 15:36 G 9593873.03 9593873.15 9593873.31 0.0073 0.0051

Neptune 21555-03-04 09:07 G 9593923.78 9593923.88 9593924.01 0.0088 0.0057

Pluto 21555-04-10 18:14 G 9593961.19 9593961.26 9593961.35 0.0073 0.0066

Neptune 21555-05-31 11:16 G 9594011.87 9594011.97 9594012.07 0.0088 0.0064

Saturn 21555-07-23 23:45 G 9594065.40 9594065.49 9594065.59 0.0287 0.0230

Neptune 21555-08-27 12:57 G 9594099.97 9594100.04 9594100.14 0.0088 0.0072

Saturn 21555-10-20 18:00 G 9594154.10 9594154.25 9594154.40 0.0287 0.0099

Neptune 21555-11-23 14:52 G 9594188.07 9594188.12 9594188.20 0.0088 0.0080

Saturn 21556-01-17 11:45 G 9594242.83 9594242.99 9594243.15 0.0286 0.0029

Neptune 21556-02-19 16:48 G 9594276.20 9594276.20 9594276.23 0.0088 0.0088

Saturn 21556-04-15 05:02 G 9594331.58 9594331.71 9594331.85 0.0286 0.0153

Saturn 21556-07-12 21:50 G 9594420.37 9594420.41 9594420.46 0.0286 0.0273

Mars 21556-08-16 04:33 G 9594454.55 9594454.69 9594454.83 0.1619 0.0078

Venus 21557-04-05 17:02 G 9594687.16 9594687.21 9594687.27 0.3693 0.3146

Venus 21558-10-17 14:09 G 9595246.98 9595247.09 9595247.20 0.3678 0.1813

Jupiter 21559-11-22 13:26 G 9595647.97 9595648.06 9595648.16 0.0525 0.0419

Earth 21559-12-27 11:02 G 9595682.94 9595682.96 9595682.99 0.2680 0.2609

Moon 21559-12-27 11:16 G 9595682.97 9595682.97 9595682.98 0.2686 0.2677 *

Jupiter 21560-02-20 12:57 G 9595737.92 9595738.04 9595738.16 0.0528 0.0339

Mars 21563-04-12 14:52 G 9596884.99 9596885.12 9596885.25 0.1917 0.0344

Moon 21564-06-20 14:38 G 9597320.04 9597320.11 9597320.18 0.2646 0.2252

Earth 21564-06-20 15:07 G 9597320.05 9597320.13 9597320.21 0.2652 0.2099 *

Jupiter 21565-07-10 12:00 G 9597704.86 9597705.00 9597705.14 0.0502 0.0115

Jupiter 21565-10-07 22:19 G 9597794.38 9597794.43 9597794.48 0.0499 0.0464

Mars 21566-01-06 12:14 G 9597884.89 9597885.01 9597885.14 0.1623 0.0658

Moon 21566-12-20 01:40 G 9598232.52 9598232.57 9598232.63 0.2677 0.2363

Earth 21566-12-20 02:38 G 9598232.54 9598232.61 9598232.68 0.2680 0.2174 *

Saturn 21570-07-31 18:57 G 9599552.21 9599552.29 9599552.37 0.0272 0.0220

Saturn 21570-10-28 08:09 G 9599640.71 9599640.84 9599640.97 0.0273 0.0124

Saturn 21571-01-24 21:21 G 9599729.25 9599729.39 9599729.54 0.0273 0.0026

Saturn 21571-04-23 11:02 G 9599817.82 9599817.96 9599818.11 0.0273 0.0077

Saturn 21571-07-21 01:12 G 9599906.43 9599906.55 9599906.66 0.0273 0.0181

Jupiter 21571-12-09 13:12 G 9600047.90 9600048.05 9600048.20 0.0528 0.0159

Mars 21572-09-01 18:14 G 9600315.19 9600315.26 9600315.32 0.1911 0.1645

Mars 21575-05-29 20:24 G 9601315.28 9601315.35 9601315.42 0.1628 0.1381

Jupiter 21577-04-28 15:07 G 9602015.01 9602015.13 9602015.25 0.0502 0.0255

Moon 21577-06-23 13:55 G 9602070.94 9602071.08 9602071.21 0.2651 0.0114

Earth 21577-06-23 15:07 G 9602070.99 9602071.13 9602071.26 0.2652 0.0071 *

Jupiter 21577-07-27 01:26 G 9602104.45 9602104.56 9602104.67 0.0499 0.0320

Moon 21579-12-22 22:04 G 9602983.31 9602983.42 9602983.54 0.2683 0.0561

Earth 21579-12-22 23:02 G 9602983.34 9602983.46 9602983.58 0.2680 0.0511 *

Jupiter 21583-09-27 13:26 G 9604357.90 9604358.06 9604358.22 0.0527 0.0024

Saturn 21584-12-09 22:33 G 9604797.40 9604797.44 9604797.48 0.0287 0.0278

Saturn 21585-03-08 17:02 G 9604886.07 9604886.21 9604886.35 0.0287 0.0146

Saturn 21585-06-05 11:02 G 9604974.80 9604974.96 9604975.12 0.0286 0.0017

Saturn 21585-09-02 04:33 G 9605063.54 9605063.69 9605063.84 0.0286 0.0109

Saturn 21585-11-29 21:36 G 9605152.31 9605152.40 9605152.49 0.0286 0.0231

Mars 21586-09-24 20:52 G 9605451.26 9605451.37 9605451.49 0.1615 0.0921

Jupiter 21589-02-14 17:45 G 9606325.16 9606325.24 9606325.32 0.0503 0.0408

Jupiter 21589-05-15 03:36 G 9606414.51 9606414.65 9606414.78 0.0500 0.0163

Uranus 21589-07-10 00:28 G 9606470.48 9606470.52 9606470.60 0.0133 0.0123

Uranus 21589-10-06 05:31 G 9606558.64 9606558.73 9606558.84 0.0133 0.0103

Uranus 21590-01-02 10:19 G 9606646.81 9606646.93 9606647.06 0.0133 0.0084

Uranus 21590-03-31 15:07 G 9606734.99 9606735.13 9606735.28 0.0133 0.0064

Moon 21590-06-26 13:26 G 9606821.97 9606822.06 9606822.16 0.2654 0.1808

Earth 21590-06-26 14:38 G 9606822.02 9606822.11 9606822.20 0.2652 0.1969 *

Uranus 21590-06-27 19:55 G 9606823.18 9606823.33 9606823.48 0.0133 0.0044

Uranus 21590-09-24 00:28 G 9606911.37 9606911.52 9606911.68 0.0133 0.0026

Uranus 21590-12-21 05:16 G 9606999.56 9606999.72 9606999.88 0.0133 0.0006

Uranus 21591-03-19 09:50 G 9607087.76 9607087.91 9607088.07 0.0133 0.0014

Uranus 21591-06-15 14:24 G 9607175.95 9607176.10 9607176.26 0.0133 0.0032

Uranus 21591-09-11 18:57 G 9607264.15 9607264.29 9607264.44 0.0133 0.0051

Venus 21591-09-12 07:55 G 9607264.77 9607264.83 9607264.89 0.3691 0.3216

Uranus 21591-12-08 23:16 G 9607352.35 9607352.47 9607352.61 0.0133 0.0070

Uranus 21592-03-06 03:50 G 9607440.55 9607440.66 9607440.78 0.0133 0.0088

Uranus 21592-06-02 08:24 G 9607528.76 9607528.85 9607528.94 0.0133 0.0107

Uranus 21592-08-29 12:28 G 9607616.98 9607617.02 9607617.09 0.0133 0.0126

Moon 21592-12-24 18:57 G 9607734.18 9607734.29 9607734.40 0.2686 0.1133

Earth 21592-12-24 19:26 G 9607734.20 9607734.31 9607734.42 0.2680 0.1208 *

Mars 21593-05-21 11:31 G 9607881.87 9607881.98 9607882.09 0.1923 0.1079

Jupiter 21595-07-16 13:12 G 9608667.90 9608668.05 9608668.19 0.0526 0.0211

Mars 21596-02-15 04:33 G 9608881.56 9608881.69 9608881.83 0.1619 0.0189

Venus 21597-03-28 04:19 G 9609288.57 9609288.68 9609288.79 0.3692 0.1389

Venus 21598-10-08 21:36 G 9609848.34 9609848.40 9609848.46 0.3680 0.3192

Saturn 21599-12-18 22:04 G 9610284.36 9610284.42 9610284.49 0.0272 0.0239

Saturn 21600-03-16 11:16 G 9610372.84 9610372.97 9610373.09 0.0272 0.0143

Saturn 21600-06-13 00:28 G 9610461.38 9610461.52 9610461.67 0.0273 0.0044

Saturn 21600-09-09 14:09 G 9610549.95 9610550.09 9610550.24 0.0273 0.0058

Saturn 21600-12-07 04:04 G 9610638.55 9610638.67 9610638.80 0.0273 0.0161

Jupiter 21601-03-03 06:28 G 9610724.63 9610724.77 9610724.92 0.0501 0.0019

Saturn 21601-03-05 18:14 G 9610727.24 9610727.26 9610727.30 0.0274 0.0268

Mars 21602-10-11 15:07 G 9611312.00 9611312.13 9611312.26 0.1917 0.0201

Venus 21602-10-12 00:28 G 9611312.40 9611312.52 9611312.64 0.3692 0.0379

Venus 21604-04-23 18:28 G 9611872.16 9611872.27 9611872.38 0.3679 0.1394

Mars 21605-07-07 12:28 G 9612311.89 9612312.02 9612312.15 0.1623 0.0547

Jupiter 21607-05-04 11:31 G 9612977.89 9612977.98 9612978.08 0.0525 0.0418

Jupiter 21607-08-02 10:48 G 9613067.84 9613067.95 9613068.08 0.0528 0.0340

Venus 21608-04-26 20:09 G 9613336.24 9613336.34 9613336.44 0.3693 0.2051

Venus 21609-11-07 15:36 G 9613896.03 9613896.15 9613896.28 0.3678 0.0484

Moon 21610-06-21 20:09 G 9614122.23 9614122.34 9614122.44 0.2647 0.1695

Earth 21610-06-21 20:52 G 9614122.26 9614122.37 9614122.47 0.2652 0.1671 *

Mars 21612-03-02 18:28 G 9614742.19 9614742.27 9614742.35 0.1911 0.1501

Moon 21612-12-20 06:57 G 9615034.70 9615034.79 9615034.87 0.2678 0.1877

Earth 21612-12-20 07:40 G 9615034.74 9615034.82 9615034.91 0.2680 0.1839 *

Jupiter 21612-12-20 09:50 G 9615034.78 9615034.91 9615035.05 0.0502 0.0120 *

Jupiter 21613-03-19 20:24 G 9615124.30 9615124.35 9615124.41 0.0499 0.0460

Venus 21613-11-10 15:36 G 9615360.14 9615360.15 9615360.16 0.3693 0.3666

Saturn 21614-07-26 19:26 G 9615618.18 9615618.31 9615618.44 0.0287 0.0170

Saturn 21614-10-23 13:26 G 9615706.90 9615707.06 9615707.22 0.0287 0.0040

Mars 21614-11-27 20:24 G 9615742.27 9615742.35 9615742.44 0.1628 0.1274

Saturn 21615-01-20 06:57 G 9615795.64 9615795.79 9615795.94 0.0286 0.0086

Saturn 21615-04-19 00:14 G 9615884.40 9615884.51 9615884.61 0.0286 0.0208

Venus 21615-05-24 13:12 G 9615919.96 9615920.05 9615920.15 0.3678 0.2458

Jupiter 21619-05-21 10:48 G 9617377.80 9617377.95 9617378.10 0.0527 0.0151

Moon 21623-06-24 19:26 G 9618873.18 9618873.31 9618873.45 0.2651 0.0157

Earth 21623-06-24 20:38 G 9618873.23 9618873.36 9618873.50 0.2652 0.0395 *

Jupiter 21624-10-08 13:26 G 9619344.93 9619345.06 9619345.18 0.0503 0.0258

Jupiter 21625-01-05 23:31 G 9619434.37 9619434.48 9619434.59 0.0499 0.0318

Moon 21625-12-23 03:21 G 9619785.52 9619785.64 9619785.76 0.2684 0.0338

Earth 21625-12-23 04:04 G 9619785.55 9619785.67 9619785.79 0.2680 0.0166 *

Mars 21626-03-25 21:07 G 9619878.28 9619878.38 9619878.49 0.1615 0.1033

Saturn 21629-05-06 23:45 G 9621016.47 9621016.49 9621016.52 0.0272 0.0268

Saturn 21629-08-03 12:43 G 9621104.92 9621105.03 9621105.15 0.0272 0.0173

Saturn 21629-10-31 01:55 G 9621193.44 9621193.58 9621193.73 0.0273 0.0076

Saturn 21630-01-27 15:36 G 9621282.00 9621282.15 9621282.30 0.0273 0.0025

Saturn 21630-04-26 05:16 G 9621370.59 9621370.72 9621370.86 0.0273 0.0128

Saturn 21630-07-23 19:26 G 9621459.24 9621459.31 9621459.39 0.0274 0.0233

Jupiter 21631-03-09 10:48 G 9621687.79 9621687.95 9621688.11 0.0527 0.0033

Uranus 21631-07-09 03:07 G 9621809.61 9621809.63 9621809.68 0.0145 0.0140

Uranus 21631-10-05 08:09 G 9621897.76 9621897.84 9621897.94 0.0145 0.0117

Uranus 21632-01-01 13:12 G 9621985.94 9621986.05 9621986.17 0.0145 0.0094

Uranus 21632-03-29 18:14 G 9622074.14 9622074.26 9622074.40 0.0145 0.0071

Uranus 21632-06-25 23:31 G 9622162.34 9622162.48 9622162.62 0.0145 0.0047

Uranus 21632-09-22 04:33 G 9622250.54 9622250.69 9622250.85 0.0145 0.0024

Mars 21632-11-19 11:45 G 9622308.89 9622308.99 9622309.09 0.1923 0.1231

Uranus 21632-12-19 09:50 G 9622338.76 9622338.91 9622339.07 0.0145 0.0001

Uranus 21633-03-17 15:07 G 9622426.98 9622427.13 9622427.28 0.0145 0.0024

Uranus 21633-06-13 20:24 G 9622515.20 9622515.35 9622515.50 0.0145 0.0048

Uranus 21633-09-10 01:26 G 9622603.44 9622603.56 9622603.71 0.0145 0.0073

Uranus 21633-12-07 06:57 G 9622691.68 9622691.79 9622691.91 0.0145 0.0097

Neptune 21634-01-27 08:38 G 9622742.84 9622742.86 9622742.91 0.0089 0.0087

Uranus 21634-03-05 12:14 G 9622779.94 9622780.01 9622780.11 0.0145 0.0122

Neptune 21634-04-25 11:16 G 9622830.91 9622830.97 9622831.06 0.0089 0.0079

Neptune 21634-07-22 13:55 G 9622918.99 9622919.08 9622919.20 0.0089 0.0070

Neptune 21634-10-18 16:48 G 9623007.08 9623007.20 9623007.32 0.0089 0.0061

Neptune 21635-01-14 18:57 G 9623095.17 9623095.29 9623095.44 0.0089 0.0052

Neptune 21635-04-12 21:36 G 9623183.26 9623183.40 9623183.56 0.0089 0.0043

Neptune 21635-07-10 00:14 G 9623271.36 9623271.51 9623271.67 0.0089 0.0035

Mars 21635-08-16 05:02 G 9623308.57 9623308.71 9623308.84 0.1619 0.0297

Neptune 21635-10-06 02:38 G 9623359.46 9623359.61 9623359.78 0.0089 0.0026

Neptune 21636-01-02 05:16 G 9623447.56 9623447.72 9623447.88 0.0089 0.0017

Neptune 21636-03-30 07:40 G 9623535.66 9623535.82 9623535.99 0.0089 0.0009

Neptune 21636-06-26 10:19 G 9623623.76 9623623.93 9623624.09 0.0089 0.0002

Moon 21636-06-26 19:26 G 9623624.25 9623624.31 9623624.37 0.2656 0.2336

Earth 21636-06-26 20:09 G 9623624.29 9623624.34 9623624.40 0.2652 0.2377 *

Jupiter 21636-07-27 16:33 G 9623655.11 9623655.19 9623655.28 0.0503 0.0397

Neptune 21636-09-22 12:43 G 9623711.86 9623712.03 9623712.19 0.0089 0.0008

Jupiter 21636-10-25 02:24 G 9623744.47 9623744.60 9623744.74 0.0500 0.0175

Neptune 21636-12-19 14:52 G 9623799.97 9623800.12 9623800.29 0.0089 0.0018

Neptune 21637-03-17 17:31 G 9623888.07 9623888.23 9623888.39 0.0089 0.0025

Neptune 21637-06-13 19:40 G 9623976.18 9623976.32 9623976.48 0.0089 0.0034

Neptune 21637-09-09 22:04 G 9624064.29 9624064.42 9624064.58 0.0089 0.0043

Neptune 21637-12-07 00:43 G 9624152.40 9624152.53 9624152.66 0.0089 0.0050

Neptune 21638-03-05 02:38 G 9624240.51 9624240.61 9624240.75 0.0089 0.0060

Neptune 21638-06-01 05:02 G 9624328.62 9624328.71 9624328.83 0.0089 0.0068

Neptune 21638-08-28 07:40 G 9624416.74 9624416.82 9624416.91 0.0089 0.0075

Neptune 21638-11-24 10:04 G 9624504.87 9624504.92 9624504.98 0.0089 0.0084

Moon 21638-12-26 00:28 G 9624536.42 9624536.52 9624536.62 0.2686 0.1582

Earth 21638-12-26 00:43 G 9624536.43 9624536.53 9624536.63 0.2680 0.1565 *

Mars 21642-04-11 15:36 G 9625739.01 9625739.15 9625739.28 0.1917 0.0079

Jupiter 21642-12-26 11:02 G 9625997.82 9625997.96 9625998.11 0.0526 0.0213

Saturn 21643-12-13 18:00 G 9626350.15 9626350.25 9626350.36 0.0287 0.0218

Saturn 21644-03-11 12:28 G 9626438.87 9626439.02 9626439.17 0.0286 0.0087

Saturn 21644-06-08 06:14 G 9626527.60 9626527.76 9626527.92 0.0286 0.0041

Saturn 21644-09-04 23:31 G 9626616.35 9626616.48 9626616.61 0.0286 0.0165

Saturn 21644-12-02 16:19 G 9626705.18 9626705.18 9626705.19 0.0286 0.0285

Mars 21645-01-05 12:43 G 9626738.90 9626739.03 9626739.16 0.1623 0.0442

Venus 21648-04-18 06:43 G 9627937.69 9627937.78 9627937.86 0.3691 0.2634

Jupiter 21648-08-13 04:48 G 9628054.56 9628054.70 9628054.84 0.0501 0.0019

Mars 21651-09-01 18:43 G 9629169.19 9629169.28 9629169.37 0.1911 0.1373

Venus 21653-11-02 03:07 G 9629961.51 9629961.63 9629961.74 0.3692 0.0820

Mars 21654-05-28 20:38 G 9630169.27 9630169.36 9630169.46 0.1628 0.1167

Jupiter 21654-10-14 10:33 G 9630307.84 9630307.94 9630308.04 0.0525 0.0404

Jupiter 21655-01-12 09:50 G 9630397.80 9630397.91 9630398.03 0.0528 0.0354

Venus 21655-05-15 20:24 G 9630521.27 9630521.35 9630521.44 0.3679 0.2625

Moon 21656-06-22 01:40 G 9630924.45 9630924.57 9630924.68 0.2648 0.1412

Earth 21656-06-22 02:38 G 9630924.49 9630924.61 9630924.73 0.2652 0.1239 *

Moon 21658-12-21 12:00 G 9631836.91 9631837.00 9631837.10 0.2680 0.1668

Earth 21658-12-21 12:57 G 9631836.94 9631837.04 9631837.14 0.2680 0.1493 *

Saturn 21658-12-21 15:50 G 9631837.06 9631837.16 9631837.26 0.0272 0.0193 *

Saturn 21659-03-20 05:02 G 9631925.57 9631925.71 9631925.85 0.0273 0.0095

Venus 21659-05-18 23:02 G 9631985.34 9631985.46 9631985.57 0.3692 0.0922

Saturn 21659-06-16 18:28 G 9632014.12 9632014.27 9632014.42 0.0273 0.0006

Saturn 21659-09-13 08:24 G 9632102.71 9632102.85 9632102.98 0.0273 0.0108

Saturn 21659-12-10 22:19 G 9632191.34 9632191.43 9632191.53 0.0274 0.0213

Jupiter 21660-06-01 07:40 G 9632364.69 9632364.82 9632364.96 0.0502 0.0127

Jupiter 21660-08-29 18:14 G 9632454.20 9632454.26 9632454.32 0.0499 0.0452

Venus 21660-11-28 17:31 G 9632545.11 9632545.23 9632545.35 0.3679 0.0812

Venus 21664-12-01 18:43 G 9634009.20 9634009.28 9634009.36 0.3693 0.2586

Mars 21665-09-23 21:36 G 9634305.30 9634305.40 9634305.49 0.1615 0.1149

Venus 21666-06-14 14:38 G 9634569.00 9634569.11 9634569.23 0.3678 0.1115

Jupiter 21666-10-31 08:38 G 9634707.71 9634707.86 9634708.02 0.0527 0.0151

Moon 21669-06-25 01:12 G 9635675.42 9635675.55 9635675.68 0.2651 0.0743

Earth 21669-06-25 02:24 G 9635675.47 9635675.60 9635675.73 0.2652 0.0809 *

Moon 21671-12-24 08:38 G 9636587.74 9636587.86 9636587.98 0.2684 0.0179

Earth 21671-12-24 09:21 G 9636587.77 9636587.89 9636588.01 0.2680 0.0194 *

Venus 21671-12-29 12:28 G 9636592.95 9636593.02 9636593.08 0.3678 0.3110

Jupiter 21672-03-20 11:16 G 9636674.85 9636674.97 9636675.09 0.0503 0.0264

Mars 21672-05-20 12:14 G 9636735.92 9636736.01 9636736.10 0.1923 0.1376

Jupiter 21672-06-17 21:21 G 9636764.28 9636764.39 9636764.50 0.0500 0.0312

Saturn 21673-05-01 20:52 G 9637082.28 9637082.37 9637082.46 0.0287 0.0239

Saturn 21673-07-29 15:07 G 9637170.99 9637171.13 9637171.28 0.0287 0.0108

Uranus 21673-07-30 07:12 G 9637171.75 9637171.80 9637171.89 0.0133 0.0120

Saturn 21673-10-26 09:07 G 9637259.72 9637259.88 9637260.04 0.0286 0.0020

Uranus 21673-10-26 12:14 G 9637259.91 9637260.01 9637260.13 0.0133 0.0099 *

Uranus 21674-01-22 17:02 G 9637348.09 9637348.21 9637348.35 0.0133 0.0080

Saturn 21674-01-23 02:24 G 9637348.47 9637348.60 9637348.74 0.0286 0.0145

Uranus 21674-04-20 21:50 G 9637436.27 9637436.41 9637436.56 0.0133 0.0060

Saturn 21674-04-21 19:26 G 9637437.25 9637437.31 9637437.36 0.0286 0.0265

Uranus 21674-07-18 02:38 G 9637524.46 9637524.61 9637524.77 0.0133 0.0040

Uranus 21674-10-14 07:26 G 9637612.65 9637612.81 9637612.97 0.0133 0.0021

Uranus 21675-01-10 12:00 G 9637700.84 9637701.00 9637701.16 0.0133 0.0004

Mars 21675-02-14 05:16 G 9637735.58 9637735.72 9637735.85 0.1619 0.0408

Uranus 21675-04-08 16:48 G 9637789.04 9637789.20 9637789.36 0.0133 0.0018

Uranus 21675-07-05 21:21 G 9637877.24 9637877.39 9637877.54 0.0133 0.0036

Uranus 21675-10-02 01:40 G 9637965.43 9637965.57 9637965.72 0.0133 0.0056

Uranus 21675-12-29 06:14 G 9638053.64 9638053.76 9638053.90 0.0133 0.0074

Uranus 21676-03-26 10:48 G 9638141.84 9638141.95 9638142.06 0.0133 0.0092

Uranus 21676-06-22 15:07 G 9638230.05 9638230.13 9638230.22 0.0133 0.0111

Uranus 21676-09-18 19:26 G 9638318.29 9638318.31 9638318.36 0.0133 0.0129

Jupiter 21678-08-19 08:24 G 9639017.69 9639017.85 9639018.01 0.0526 0.0041

Mars 21681-10-10 15:50 G 9640166.03 9640166.16 9640166.29 0.1917 0.0089

Moon 21682-06-28 01:12 G 9640426.53 9640426.55 9640426.56 0.2657 0.2618

Jupiter 21684-01-07 14:38 G 9640985.03 9640985.11 9640985.20 0.0504 0.0401

Jupiter 21684-04-06 00:28 G 9641074.39 9641074.52 9641074.66 0.0500 0.0171

Mars 21684-07-06 12:57 G 9641165.90 9641166.04 9641166.18 0.1623 0.0332

Moon 21684-12-26 06:00 G 9641338.66 9641338.75 9641338.83 0.2686 0.1867

Earth 21684-12-26 06:00 G 9641338.66 9641338.75 9641338.83 0.2680 0.1924 *

Saturn 21688-05-09 17:31 G 9642569.16 9642569.23 9642569.32 0.0272 0.0221

Saturn 21688-08-06 06:43 G 9642657.65 9642657.78 9642657.91 0.0273 0.0124

Saturn 21688-11-02 20:09 G 9642746.19 9642746.34 9642746.49 0.0273 0.0025

Saturn 21689-01-30 09:50 G 9642834.76 9642834.91 9642835.05 0.0273 0.0076

Saturn 21689-04-28 23:45 G 9642923.38 9642923.49 9642923.60 0.0273 0.0180

Jupiter 21690-06-07 08:09 G 9643327.70 9643327.84 9643327.98 0.0526 0.0227

Jupiter 21690-09-05 07:12 G 9643417.78 9643417.80 9643417.82 0.0529 0.0525

Mars 21691-03-02 19:12 G 9643596.19 9643596.30 9643596.40 0.1911 0.1222

Mars 21693-11-26 20:52 G 9644596.27 9644596.37 9644596.47 0.1627 0.1062

Jupiter 21696-01-24 03:36 G 9645384.51 9645384.65 9645384.80 0.0501 0.0029

Jupiter 21702-03-27 08:24 G 9647637.75 9647637.85 9647637.95 0.0525 0.0409

Moon 21702-06-24 07:12 G 9647726.67 9647726.80 9647726.92 0.2649 0.0929

Earth 21702-06-24 08:09 G 9647726.71 9647726.84 9647726.97 0.2652 0.0816 *

Jupiter 21702-06-25 07:40 G 9647727.71 9647727.82 9647727.94 0.0528 0.0351

Saturn 21702-09-19 19:55 G 9647814.32 9647814.33 9647814.33 0.0287 0.0286

Saturn 21702-12-17 14:24 G 9647902.96 9647903.10 9647903.24 0.0286 0.0154

Saturn 21703-03-16 08:24 G 9647991.69 9647991.85 9647992.01 0.0286 0.0024

Saturn 21703-06-13 01:55 G 9648080.43 9648080.58 9648080.73 0.0286 0.0102

Saturn 21703-09-09 18:57 G 9648169.20 9648169.29 9648169.39 0.0286 0.0224

Venus 21704-11-24 05:31 G 9648610.63 9648610.73 9648610.83 0.3692 0.2046

Moon 21704-12-22 17:02 G 9648639.11 9648639.21 9648639.32 0.2681 0.1240

Earth 21704-12-22 18:00 G 9648639.14 9648639.25 9648639.36 0.2680 0.1155 *

Mars 21705-03-25 21:36 G 9648732.32 9648732.40 9648732.49 0.1615 0.1258

Jupiter 21707-11-13 06:00 G 9649694.62 9649694.75 9649694.89 0.0502 0.0126

Jupiter 21708-02-10 16:19 G 9649784.13 9649784.18 9649784.25 0.0499 0.0453

Venus 21710-06-10 01:40 G 9650634.45 9650634.57 9650634.69 0.3692 0.0251

Mars 21711-11-20 12:28 G 9651162.94 9651163.02 9651163.10 0.1923 0.1507

Venus 21711-12-21 19:26 G 9651194.21 9651194.31 9651194.41 0.3679 0.2047

Jupiter 21714-04-13 07:40 G 9652037.67 9652037.82 9652037.97 0.0527 0.0164

Mars 21714-08-16 05:31 G 9652162.59 9652162.73 9652162.86 0.1619 0.0517

Neptune 21715-02-02 20:24 G 9652333.35 9652333.35 9652333.35 0.0088 0.0088

Pluto 21715-04-22 10:04 G 9652411.88 9652411.92 9652411.98 0.0070 0.0063

Neptune 21715-05-01 21:50 G 9652421.37 9652421.41 9652421.48 0.0088 0.0081

Moon 21715-06-27 06:57 G 9652477.66 9652477.79 9652477.91 0.2653 0.1011

Earth 21715-06-27 07:55 G 9652477.72 9652477.83 9652477.95 0.2652 0.1226 *

Pluto 21715-07-19 10:33 G 9652499.87 9652499.94 9652500.04 0.0070 0.0054

Neptune 21715-07-28 23:31 G 9652509.41 9652509.48 9652509.57 0.0088 0.0074

Uranus 21715-07-30 10:04 G 9652510.88 9652510.92 9652510.98 0.0145 0.0136

Pluto 21715-10-15 11:16 G 9652587.88 9652587.97 9652588.08 0.0070 0.0045

Neptune 21715-10-25 01:26 G 9652597.47 9652597.56 9652597.66 0.0088 0.0067

Uranus 21715-10-26 15:07 G 9652599.04 9652599.13 9652599.23 0.0145 0.0113

Venus 21715-12-24 21:36 G 9652658.29 9652658.40 9652658.51 0.3692 0.1470

Pluto 21716-01-11 12:00 G 9652675.89 9652676.00 9652676.12 0.0070 0.0035

Neptune 21716-01-21 03:07 G 9652685.53 9652685.63 9652685.75 0.0088 0.0060

Uranus 21716-01-22 20:09 G 9652687.22 9652687.34 9652687.46 0.0145 0.0090

Pluto 21716-04-08 12:28 G 9652763.91 9652764.02 9652764.15 0.0070 0.0026

Neptune 21716-04-18 05:02 G 9652773.60 9652773.71 9652773.84 0.0088 0.0052

Uranus 21716-04-20 01:12 G 9652775.42 9652775.55 9652775.69 0.0145 0.0067

Pluto 21716-07-05 13:12 G 9652851.93 9652852.05 9652852.18 0.0071 0.0017

Neptune 21716-07-15 06:57 G 9652861.66 9652861.79 9652861.92 0.0088 0.0045

Uranus 21716-07-17 06:14 G 9652863.62 9652863.76 9652863.91 0.0145 0.0044

Pluto 21716-10-01 13:55 G 9652939.95 9652940.08 9652940.21 0.0071 0.0007

Neptune 21716-10-11 08:38 G 9652949.73 9652949.86 9652950.00 0.0088 0.0037

Uranus 21716-10-13 11:31 G 9652951.83 9652951.98 9652952.13 0.0145 0.0020

Pluto 21716-12-28 14:24 G 9653027.97 9653028.10 9653028.24 0.0071 0.0004

Neptune 21717-01-07 10:19 G 9653037.80 9653037.93 9653038.08 0.0088 0.0030

Uranus 21717-01-09 16:33 G 9653040.04 9653040.19 9653040.35 0.0145 0.0005

Pluto 21717-03-26 15:07 G 9653116.00 9653116.13 9653116.26 0.0071 0.0012

Neptune 21717-04-05 12:28 G 9653125.87 9653126.02 9653126.16 0.0088 0.0023

Uranus 21717-04-07 21:50 G 9653128.26 9653128.41 9653128.56 0.0145 0.0028

Pluto 21717-06-22 15:36 G 9653204.03 9653204.15 9653204.28 0.0071 0.0022

Neptune 21717-07-02 14:09 G 9653213.95 9653214.09 9653214.24 0.0088 0.0015

Uranus 21717-07-05 03:07 G 9653216.49 9653216.63 9653216.78 0.0145 0.0052

Venus 21717-07-06 16:19 G 9653218.06 9653218.18 9653218.31 0.3678 0.0215

Pluto 21717-09-18 16:19 G 9653292.07 9653292.18 9653292.30 0.0071 0.0032

Saturn 21717-09-27 20:24 G 9653301.29 9653301.35 9653301.41 0.0272 0.0243

Neptune 21717-09-28 16:04 G 9653302.02 9653302.17 9653302.32 0.0088 0.0008

Uranus 21717-10-01 08:24 G 9653304.72 9653304.85 9653304.99 0.0145 0.0077

Pluto 21717-12-15 17:02 G 9653380.11 9653380.21 9653380.32 0.0071 0.0042

Saturn 21717-12-25 09:21 G 9653389.77 9653389.89 9653390.02 0.0273 0.0147

Moon 21717-12-25 13:55 G 9653389.96 9653390.08 9653390.20 0.2684 0.0395 *

Earth 21717-12-25 14:24 G 9653389.98 9653390.10 9653390.22 0.2680 0.0541 *

Neptune 21717-12-25 18:00 G 9653390.10 9653390.25 9653390.40 0.0088 0.0002 *

Uranus 21717-12-28 13:55 G 9653392.97 9653393.08 9653393.19 0.0145 0.0101

Pluto 21718-03-13 17:31 G 9653468.15 9653468.23 9653468.33 0.0071 0.0052

Neptune 21718-03-23 19:40 G 9653478.17 9653478.32 9653478.47 0.0088 0.0008

Saturn 21718-03-23 22:48 G 9653478.30 9653478.45 9653478.60 0.0273 0.0047 *

Uranus 21718-03-26 19:12 G 9653481.23 9653481.30 9653481.38 0.0145 0.0126

Pluto 21718-06-09 18:14 G 9653556.20 9653556.26 9653556.33 0.0071 0.0062

Neptune 21718-06-19 21:36 G 9653566.25 9653566.40 9653566.55 0.0088 0.0015

Saturn 21718-06-20 12:28 G 9653566.87 9653567.02 9653567.16 0.0273 0.0054

Neptune 21718-09-15 23:16 G 9653654.33 9653654.47 9653654.63 0.0088 0.0023

Saturn 21718-09-17 02:24 G 9653655.48 9653655.60 9653655.72 0.0273 0.0158

Neptune 21718-12-13 01:26 G 9653742.42 9653742.56 9653742.70 0.0088 0.0030

Saturn 21718-12-14 16:33 G 9653744.16 9653744.19 9653744.23 0.0274 0.0264

Neptune 21719-03-11 03:07 G 9653830.50 9653830.63 9653830.77 0.0088 0.0038

Neptune 21719-06-07 05:16 G 9653918.59 9653918.72 9653918.85 0.0088 0.0045

Jupiter 21719-09-01 09:07 G 9654004.76 9654004.88 9654005.00 0.0503 0.0270

Neptune 21719-09-03 06:57 G 9654006.68 9654006.79 9654006.92 0.0088 0.0053

Jupiter 21719-11-29 19:12 G 9654094.19 9654094.30 9654094.42 0.0500 0.0305

Neptune 21719-11-30 08:52 G 9654094.77 9654094.87 9654094.99 0.0088 0.0061

Neptune 21720-02-26 11:02 G 9654182.86 9654182.96 9654183.05 0.0088 0.0069

Neptune 21720-05-24 12:43 G 9654270.96 9654271.03 9654271.11 0.0088 0.0076

Neptune 21720-08-20 14:38 G 9654359.08 9654359.11 9654359.16 0.0088 0.0084

Mars 21721-04-11 16:04 G 9654593.03 9654593.17 9654593.30 0.1918 0.0226

Venus 21721-07-09 17:16 G 9654682.16 9654682.22 9654682.28 0.3693 0.3121

Venus 21723-01-20 13:55 G 9655241.97 9655242.08 9655242.19 0.3678 0.1749

Mars 21724-01-06 13:12 G 9655592.92 9655593.05 9655593.19 0.1623 0.0221

Jupiter 21726-01-30 06:14 G 9656347.60 9656347.76 9656347.92 0.0526 0.0044

Mars 21730-09-01 19:26 G 9658023.20 9658023.31 9658023.43 0.1912 0.1068

Earth 21730-12-28 11:02 G 9658140.90 9658140.96 9658141.03 0.2680 0.2283

Moon 21730-12-28 11:16 G 9658140.91 9658140.97 9658141.02 0.2687 0.2380 *

Jupiter 21731-06-20 12:28 G 9658314.94 9658315.02 9658315.11 0.0504 0.0408

Jupiter 21731-09-17 22:19 G 9658404.30 9658404.43 9658404.57 0.0501 0.0166

Saturn 21732-05-05 17:02 G 9658635.09 9658635.21 9658635.34 0.0287 0.0175

Saturn 21732-08-02 11:16 G 9658723.81 9658723.97 9658724.13 0.0287 0.0045

Saturn 21732-10-30 04:48 G 9658812.55 9658812.70 9658812.86 0.0286 0.0082

Saturn 21733-01-26 22:04 G 9658901.31 9658901.42 9658901.53 0.0286 0.0204

Mars 21733-05-28 21:07 G 9659023.27 9659023.38 9659023.49 0.1627 0.0950

Moon 21735-06-22 13:12 G 9659778.03 9659778.05 9659778.08 0.2646 0.2584

Earth 21735-06-22 13:40 G 9659778.03 9659778.07 9659778.12 0.2652 0.2492 *

Jupiter 21737-11-18 05:45 G 9660657.60 9660657.74 9660657.88 0.0525 0.0235

Moon 21737-12-21 02:24 G 9660690.56 9660690.60 9660690.63 0.2676 0.2557

Earth 21737-12-21 03:07 G 9660690.58 9660690.63 9660690.67 0.2680 0.2454 *

Jupiter 21738-02-16 04:48 G 9660747.67 9660747.70 9660747.73 0.0529 0.0516

Jupiter 21743-07-07 01:40 G 9662714.43 9662714.57 9662714.71 0.0501 0.0025

Mars 21744-09-23 22:04 G 9663159.34 9663159.42 9663159.49 0.1615 0.1373

Saturn 21747-02-14 22:33 G 9664033.42 9664033.44 9664033.46 0.0272 0.0269

Saturn 21747-05-14 11:31 G 9664121.87 9664121.98 9664122.09 0.0272 0.0173

Saturn 21747-08-11 00:43 G 9664210.39 9664210.53 9664210.68 0.0273 0.0075

Saturn 21747-11-07 14:24 G 9664298.95 9664299.10 9664299.24 0.0273 0.0026

Saturn 21748-02-04 04:04 G 9664387.54 9664387.67 9664387.80 0.0273 0.0128

Saturn 21748-05-02 18:00 G 9664476.18 9664476.25 9664476.34 0.0274 0.0234

Moon 21748-06-24 12:43 G 9664528.90 9664529.03 9664529.17 0.2649 0.0555

Earth 21748-06-24 13:55 G 9664528.95 9664529.08 9664529.21 0.2652 0.0389 *

Jupiter 21749-09-06 05:16 G 9664967.63 9664967.72 9664967.81 0.0525 0.0425

Jupiter 21749-12-05 04:48 G 9665057.59 9665057.70 9665057.83 0.0528 0.0335

Moon 21750-12-23 22:19 G 9665441.32 9665441.43 9665441.54 0.2682 0.0954

Earth 21750-12-23 23:16 G 9665441.35 9665441.47 9665441.58 0.2680 0.0807 *

Mars 21751-05-21 12:43 G 9665589.96 9665590.03 9665590.09 0.1924 0.1647

Mars 21754-02-14 05:31 G 9666589.61 9666589.73 9666589.86 0.1619 0.0627

Jupiter 21755-04-25 05:02 G 9667024.57 9667024.71 9667024.84 0.0502 0.0117

Jupiter 21755-07-23 15:21 G 9667114.09 9667114.14 9667114.19 0.0499 0.0462

Venus 21755-12-16 07:40 G 9667259.77 9667259.82 9667259.87 0.3691 0.3313

Uranus 21757-08-20 14:09 G 9667873.01 9667873.09 9667873.17 0.0133 0.0116

Uranus 21757-11-16 18:43 G 9667961.18 9667961.28 9667961.40 0.0133 0.0096

Uranus 21758-02-12 23:45 G 9668049.36 9668049.49 9668049.63 0.0133 0.0076

Uranus 21758-05-12 04:33 G 9668137.55 9668137.69 9668137.84 0.0133 0.0056

Uranus 21758-08-08 09:21 G 9668225.74 9668225.89 9668226.04 0.0133 0.0037

Uranus 21758-11-04 14:09 G 9668313.93 9668314.09 9668314.25 0.0133 0.0018

Uranus 21759-01-31 18:43 G 9668402.12 9668402.28 9668402.44 0.0133 0.0002

Uranus 21759-04-29 23:16 G 9668490.32 9668490.47 9668490.63 0.0133 0.0021

Uranus 21759-07-27 03:50 G 9668578.51 9668578.66 9668578.82 0.0133 0.0040

Uranus 21759-10-23 08:24 G 9668666.71 9668666.85 9668667.00 0.0133 0.0059

Uranus 21760-01-19 12:57 G 9668754.92 9668755.04 9668755.17 0.0133 0.0078

Uranus 21760-04-16 17:16 G 9668843.12 9668843.22 9668843.34 0.0133 0.0096

Uranus 21760-07-13 21:50 G 9668931.34 9668931.41 9668931.49 0.0133 0.0115

Uranus 21760-10-10 02:09 G 9669019.59 9669019.59 9669019.61 0.0133 0.0133

Mars 21760-10-10 16:33 G 9669020.06 9669020.19 9669020.32 0.1918 0.0381

Moon 21761-06-27 12:28 G 9669279.92 9669280.02 9669280.13 0.2655 0.1556

Earth 21761-06-27 13:40 G 9669279.96 9669280.07 9669280.17 0.2652 0.1632 *

Venus 21761-07-01 04:19 G 9669283.57 9669283.68 9669283.79 0.3692 0.1461

Saturn 21761-09-22 16:04 G 9669367.07 9669367.17 9669367.28 0.0286 0.0221

Jupiter 21761-09-23 05:31 G 9669367.58 9669367.73 9669367.88 0.0528 0.0159

Saturn 21761-12-20 10:19 G 9669455.78 9669455.93 9669456.09 0.0286 0.0091

Saturn 21762-03-19 04:19 G 9669544.52 9669544.68 9669544.84 0.0286 0.0038

Saturn 21762-06-15 21:36 G 9669633.27 9669633.40 9669633.53 0.0286 0.0162

Saturn 21762-09-12 14:24 G 9669722.08 9669722.10 9669722.12 0.0285 0.0282

Venus 21763-01-11 21:36 G 9669843.34 9669843.40 9669843.45 0.3679 0.3246

Mars 21763-07-07 13:26 G 9670019.92 9670020.06 9670020.20 0.1623 0.0112

Moon 21763-12-26 19:12 G 9670192.18 9670192.30 9670192.41 0.2685 0.0884

Earth 21763-12-26 19:40 G 9670192.20 9670192.32 9670192.43 0.2680 0.0890 *

Venus 21767-01-15 00:14 G 9671307.40 9671307.51 9671307.63 0.3692 0.0347

Jupiter 21767-02-11 07:40 G 9671334.70 9671334.82 9671334.93 0.0503 0.0268

Jupiter 21767-05-11 17:31 G 9671424.12 9671424.23 9671424.35 0.0500 0.0307

Venus 21768-07-27 18:14 G 9671867.15 9671867.26 9671867.37 0.3679 0.1460

Mars 21770-03-02 19:40 G 9672450.20 9672450.32 9672450.43 0.1912 0.0946

Venus 21772-07-30 20:09 G 9673331.24 9673331.34 9673331.44 0.3693 0.2019

Mars 21772-11-26 21:21 G 9673450.27 9673450.39 9673450.51 0.1627 0.0844

Jupiter 21773-07-12 05:16 G 9673677.56 9673677.72 9673677.88 0.0526 0.0030

Venus 21774-02-10 15:21 G 9673891.02 9673891.14 9673891.27 0.3678 0.0432

Saturn 21776-09-30 13:40 G 9674853.98 9674854.07 9674854.18 0.0273 0.0199

Saturn 21776-12-28 03:07 G 9674942.49 9674942.63 9674942.76 0.0273 0.0101

Earth 21776-12-28 16:19 G 9674943.16 9674943.18 9674943.20 0.2679 0.2642

Moon 21776-12-28 16:33 G 9674943.16 9674943.19 9674943.22 0.2687 0.2600 *

Saturn 21777-03-26 16:33 G 9675031.04 9675031.19 9675031.34 0.0273 0.0005

Saturn 21777-06-23 06:14 G 9675119.62 9675119.76 9675119.90 0.0273 0.0102

Saturn 21777-09-19 20:09 G 9675208.25 9675208.34 9675208.45 0.0274 0.0208

Venus 21778-02-13 15:36 G 9675355.14 9675355.15 9675355.17 0.3693 0.3651

Jupiter 21778-11-30 10:33 G 9675644.87 9675644.94 9675645.02 0.0504 0.0411

Jupiter 21779-02-27 20:24 G 9675734.21 9675734.35 9675734.49 0.0500 0.0160

Venus 21779-08-27 12:57 G 9675914.95 9675915.04 9675915.14 0.3678 0.2393

Moon 21781-06-22 18:43 G 9676580.20 9676580.28 9676580.36 0.2647 0.2093

Earth 21781-06-22 19:26 G 9676580.23 9676580.31 9676580.40 0.2652 0.2060 *

Mars 21782-04-19 05:31 G 9676880.69 9676880.73 9676880.76 0.1632 0.1567

Moon 21783-12-22 07:26 G 9677492.74 9677492.81 9677492.87 0.2678 0.2186

Earth 21783-12-22 08:09 G 9677492.77 9677492.84 9677492.91 0.2680 0.2114 *

Mars 21784-03-24 22:19 G 9677586.38 9677586.43 9677586.48 0.1615 0.1487

Jupiter 21785-04-30 03:36 G 9677987.51 9677987.65 9677987.80 0.0525 0.0236

Jupiter 21785-07-29 02:38 G 9678077.59 9678077.61 9678077.65 0.0529 0.0516

Mars 21790-11-19 13:12 G 9680017.00 9680017.05 9680017.09 0.1924 0.1804

Jupiter 21790-12-16 23:31 G 9680044.34 9680044.48 9680044.63 0.0502 0.0026

Saturn 21791-02-09 18:57 G 9680099.21 9680099.29 9680099.38 0.0287 0.0243

Saturn 21791-05-09 13:26 G 9680187.91 9680188.06 9680188.21 0.0287 0.0111

Saturn 21791-08-06 07:12 G 9680276.64 9680276.80 9680276.96 0.0286 0.0018

Saturn 21791-11-03 00:28 G 9680365.39 9680365.52 9680365.66 0.0286 0.0143

Saturn 21792-01-30 17:31 G 9680454.18 9680454.23 9680454.29 0.0286 0.0264

Mars 21793-08-15 06:00 G 9681016.63 9681016.75 9681016.87 0.1619 0.0742

Moon 21794-06-25 18:28 G 9681331.13 9681331.27 9681331.40 0.2650 0.0123

Earth 21794-06-25 19:26 G 9681331.18 9681331.31 9681331.45 0.2652 0.0091 *

Moon 21796-12-24 03:36 G 9682243.53 9682243.65 9682243.76 0.2682 0.0576

Earth 21796-12-24 04:19 G 9682243.56 9682243.68 9682243.80 0.2680 0.0460 *

Jupiter 21797-02-16 02:52 G 9682297.53 9682297.62 9682297.71 0.0524 0.0430

Jupiter 21797-05-17 02:24 G 9682387.49 9682387.60 9682387.73 0.0528 0.0329

Neptune 21798-10-25 08:24 G 9682913.80 9682913.85 9682913.93 0.0089 0.0082

Neptune 21799-01-21 11:02 G 9683001.88 9683001.96 9683002.06 0.0089 0.0073

Neptune 21799-04-19 13:40 G 9683089.96 9683090.07 9683090.19 0.0089 0.0064

Neptune 21799-07-16 16:19 G 9683178.05 9683178.18 9683178.31 0.0089 0.0056

Uranus 21799-08-19 17:02 G 9683212.15 9683212.21 9683212.28 0.0145 0.0131

Neptune 21799-10-12 18:43 G 9683266.15 9683266.28 9683266.43 0.0089 0.0047

Uranus 21799-11-15 21:50 G 9683300.32 9683300.41 9683300.52 0.0145 0.0109

Neptune 21800-01-08 21:21 G 9683354.24 9683354.39 9683354.55 0.0089 0.0038

Uranus 21800-02-12 02:52 G 9683388.51 9683388.62 9683388.75 0.0145 0.0086

Neptune 21800-04-07 00:00 G 9683442.34 9683442.50 9683442.66 0.0089 0.0029

Mars 21800-04-11 16:33 G 9683447.07 9683447.19 9683447.32 0.1918 0.0512

Uranus 21800-05-11 08:09 G 9683476.70 9683476.84 9683476.98 0.0145 0.0062

Neptune 21800-07-04 02:24 G 9683530.44 9683530.60 9683530.77 0.0089 0.0021

Uranus 21800-08-07 13:12 G 9683564.91 9683565.05 9683565.20 0.0145 0.0039

Neptune 21800-09-30 05:02 G 9683618.54 9683618.71 9683618.87 0.0089 0.0012

Uranus 21800-11-03 18:28 G 9683653.11 9683653.27 9683653.42 0.0145 0.0015

Neptune 21800-12-27 07:26 G 9683706.65 9683706.81 9683706.98 0.0089 0.0004

Uranus 21801-01-30 23:31 G 9683741.33 9683741.48 9683741.64 0.0145 0.0009

Pluto 21801-03-07 04:19 G 9683776.61 9683776.68 9683776.76 0.0074 0.0068

Neptune 21801-03-25 09:50 G 9683794.75 9683794.91 9683795.08 0.0089 0.0006

Uranus 21801-04-29 04:48 G 9683829.55 9683829.70 9683829.85 0.0145 0.0033

Pluto 21801-06-03 06:43 G 9683864.65 9683864.78 9683864.93 0.0074 0.0052

Neptune 21801-06-21 12:14 G 9683882.85 9683883.01 9683883.18 0.0089 0.0014

Uranus 21801-07-26 10:04 G 9683917.78 9683917.92 9683918.06 0.0145 0.0057

Pluto 21801-08-30 09:21 G 9683952.72 9683952.89 9683953.07 0.0073 0.0035

Neptune 21801-09-17 14:38 G 9683970.96 9683971.11 9683971.28 0.0089 0.0023

Uranus 21801-10-22 15:07 G 9684006.02 9684006.13 9684006.27 0.0145 0.0082

Pluto 21801-11-26 11:45 G 9684040.81 9684040.99 9684041.19 0.0073 0.0020

Neptune 21801-12-14 17:16 G 9684059.07 9684059.22 9684059.37 0.0089 0.0031

Uranus 21802-01-18 20:38 G 9684094.26 9684094.36 9684094.47 0.0145 0.0106

Pluto 21802-02-22 14:24 G 9684128.91 9684129.10 9684129.30 0.0073 0.0004

Neptune 21802-03-12 19:26 G 9684147.17 9684147.31 9684147.47 0.0089 0.0039

Uranus 21802-04-17 01:55 G 9684182.53 9684182.58 9684182.66 0.0145 0.0131

Pluto 21802-05-21 16:48 G 9684217.01 9684217.20 9684217.40 0.0073 0.0013

Neptune 21802-06-08 21:50 G 9684235.28 9684235.41 9684235.56 0.0089 0.0048

Pluto 21802-08-17 19:12 G 9684305.13 9684305.30 9684305.49 0.0073 0.0028

Neptune 21802-09-05 00:28 G 9684323.39 9684323.52 9684323.65 0.0089 0.0056

Jupiter 21802-10-06 02:52 G 9684354.49 9684354.62 9684354.76 0.0502 0.0120

Pluto 21802-11-13 21:21 G 9684393.25 9684393.39 9684393.57 0.0073 0.0044

Neptune 21802-12-02 02:24 G 9684411.51 9684411.60 9684411.73 0.0089 0.0065

Jupiter 21803-01-03 13:12 G 9684444.00 9684444.05 9684444.11 0.0499 0.0460

Mars 21803-01-06 13:40 G 9684446.93 9684447.07 9684447.21 0.1623 0.0006

Pluto 21803-02-10 00:14 G 9684481.40 9684481.51 9684481.62 0.0073 0.0059

Neptune 21803-02-28 05:02 G 9684499.62 9684499.71 9684499.81 0.0089 0.0072

Neptune 21803-05-27 07:26 G 9684587.75 9684587.81 9684587.88 0.0089 0.0081

Neptune 21803-08-23 09:50 G 9684675.90 9684675.91 9684675.93 0.0089 0.0089

Saturn 21806-02-18 16:04 G 9685586.09 9685586.17 9685586.26 0.0272 0.0224

Saturn 21806-05-18 05:16 G 9685674.59 9685674.72 9685674.85 0.0273 0.0127

Saturn 21806-08-14 18:28 G 9685763.13 9685763.27 9685763.42 0.0273 0.0029

Saturn 21806-11-11 08:09 G 9685851.70 9685851.84 9685851.99 0.0273 0.0074

Saturn 21807-02-07 22:04 G 9685940.31 9685940.42 9685940.54 0.0273 0.0178

Moon 21807-06-29 18:14 G 9686082.17 9686082.26 9686082.35 0.2656 0.1891

Earth 21807-06-29 19:12 G 9686082.22 9686082.30 9686082.39 0.2652 0.2044 *

Jupiter 21809-03-06 02:24 G 9686697.45 9686697.60 9686697.76 0.0527 0.0144

Mars 21809-09-01 20:09 G 9686877.22 9686877.34 9686877.46 0.1912 0.0783

Moon 21809-12-28 00:28 G 9686994.42 9686994.52 9686994.63 0.2686 0.1187

Earth 21809-12-28 00:57 G 9686994.43 9686994.54 9686994.64 0.2680 0.1252 *

Mars 21812-05-28 21:36 G 9687877.28 9687877.40 9687877.52 0.1627 0.0735

Venus 21812-07-23 06:28 G 9687932.69 9687932.77 9687932.85 0.3691 0.2709

Jupiter 21814-07-25 06:14 G 9688664.64 9688664.76 9688664.88 0.0503 0.0259

Jupiter 21814-10-22 16:19 G 9688754.07 9688754.18 9688754.29 0.0500 0.0316

Venus 21818-02-06 02:52 G 9689956.51 9689956.62 9689956.74 0.3692 0.0882

Venus 21819-08-19 20:24 G 9690516.27 9690516.35 9690516.43 0.3679 0.2673

Saturn 21820-09-26 12:14 G 9690919.88 9690920.01 9690920.15 0.0286 0.0157

Jupiter 21820-12-23 02:52 G 9691007.46 9691007.62 9691007.78 0.0527 0.0036

Saturn 21820-12-24 06:28 G 9691008.61 9691008.77 9691008.93 0.0286 0.0027

Saturn 21821-03-23 00:00 G 9691097.35 9691097.50 9691097.65 0.0286 0.0099

Saturn 21821-06-19 17:02 G 9691186.12 9691186.21 9691186.31 0.0285 0.0221

Mars 21821-10-19 05:31 G 9691307.68 9691307.73 9691307.79 0.1632 0.1467

Venus 21823-08-22 23:02 G 9691980.34 9691980.46 9691980.57 0.3692 0.0880

Mars 21823-09-24 22:33 G 9692013.42 9692013.44 9692013.45 0.1615 0.1598

Venus 21825-03-04 17:16 G 9692540.10 9692540.22 9692540.34 0.3679 0.0863

Jupiter 21826-05-13 09:07 G 9692974.80 9692974.88 9692974.96 0.0504 0.0407

Jupiter 21826-08-10 18:43 G 9693064.15 9693064.28 9693064.42 0.0500 0.0165

Moon 21827-06-25 00:28 G 9693382.42 9693382.52 9693382.62 0.2647 0.1811

Earth 21827-06-25 01:12 G 9693382.44 9693382.55 9693382.66 0.2652 0.1622 *

Venus 21829-03-07 18:43 G 9694004.20 9694004.28 9694004.36 0.3693 0.2560

Moon 21829-12-23 12:28 G 9694294.93 9694295.02 9694295.10 0.2679 0.1960

Earth 21829-12-23 13:12 G 9694294.96 9694295.05 9694295.14 0.2680 0.1777 *

Mars 21830-05-21 13:12 G 9694444.05 9694444.05 9694444.05 0.1924 0.1923

Venus 21830-09-18 14:24 G 9694563.98 9694564.10 9694564.22 0.3678 0.1045

Jupiter 21832-10-11 02:38 G 9695317.46 9695317.61 9695317.75 0.0526 0.0223

Mars 21833-02-14 06:14 G 9695443.64 9695443.76 9695443.87 0.1619 0.0852

Saturn 21835-07-08 18:00 G 9696318.20 9696318.25 9696318.30 0.0273 0.0252

Saturn 21835-10-05 06:57 G 9696406.67 9696406.79 9696406.91 0.0273 0.0156

Saturn 21836-01-01 20:24 G 9696495.20 9696495.35 9696495.49 0.0273 0.0057

Saturn 21836-03-30 09:50 G 9696583.77 9696583.91 9696584.06 0.0273 0.0045

Venus 21836-04-03 12:00 G 9696587.94 9696588.00 9696588.07 0.3678 0.3047

Saturn 21836-06-26 23:45 G 9696672.37 9696672.49 9696672.62 0.0274 0.0149

Saturn 21836-09-23 13:55 G 9696761.03 9696761.08 9696761.14 0.0274 0.0255

Jupiter 21838-05-29 21:50 G 9697374.27 9697374.41 9697374.55 0.0501 0.0018

Mars 21839-10-11 17:02 G 9697874.08 9697874.21 9697874.33 0.1918 0.0658

Moon 21840-06-27 00:00 G 9698133.37 9698133.50 9698133.64 0.2651 0.0353

Earth 21840-06-27 01:12 G 9698133.42 9698133.55 9698133.69 0.2652 0.0451 *

Uranus 21841-06-14 15:36 G 9698486.15 9698486.15 9698486.19 0.0133 0.0132

Uranus 21841-09-10 20:38 G 9698574.28 9698574.36 9698574.46 0.0133 0.0112

Uranus 21841-12-08 01:26 G 9698662.46 9698662.56 9698662.69 0.0133 0.0093

Uranus 21842-03-06 06:28 G 9698750.64 9698750.77 9698750.91 0.0133 0.0072

Uranus 21842-06-02 11:16 G 9698838.83 9698838.97 9698839.12 0.0133 0.0053

Mars 21842-07-07 13:55 G 9698873.94 9698874.08 9698874.22 0.1623 0.0117

Uranus 21842-08-29 16:04 G 9698927.02 9698927.17 9698927.33 0.0133 0.0033

Uranus 21842-11-25 20:52 G 9699015.21 9699015.37 9699015.53 0.0133 0.0014

Moon 21842-12-26 08:52 G 9699045.74 9699045.87 9699045.99 0.2683 0.0225

Earth 21842-12-26 09:36 G 9699045.78 9699045.90 9699046.02 0.2680 0.0117 *

Uranus 21843-02-22 01:26 G 9699103.40 9699103.56 9699103.72 0.0133 0.0006

Uranus 21843-05-21 06:00 G 9699191.60 9699191.75 9699191.91 0.0133 0.0025

Uranus 21843-08-17 10:33 G 9699279.80 9699279.94 9699280.10 0.0133 0.0044

Uranus 21843-11-13 15:07 G 9699368.00 9699368.13 9699368.28 0.0133 0.0063

Uranus 21844-02-09 19:40 G 9699456.20 9699456.32 9699456.45 0.0133 0.0082

Uranus 21844-05-08 00:14 G 9699544.41 9699544.51 9699544.62 0.0133 0.0100

Jupiter 21844-07-30 00:57 G 9699627.45 9699627.54 9699627.64 0.0524 0.0429

Uranus 21844-08-04 04:48 G 9699632.63 9699632.70 9699632.77 0.0133 0.0119

Jupiter 21844-10-28 00:43 G 9699717.41 9699717.53 9699717.65 0.0528 0.0330

Mars 21849-03-02 20:24 G 9701304.23 9701304.35 9701304.48 0.1912 0.0641

Saturn 21850-02-13 14:52 G 9701652.00 9701652.12 9701652.25 0.0287 0.0181

Jupiter 21850-03-18 00:57 G 9701684.41 9701684.54 9701684.68 0.0503 0.0123

Saturn 21850-05-13 09:07 G 9701740.72 9701740.88 9701741.04 0.0287 0.0050

Jupiter 21850-06-15 11:16 G 9701773.92 9701773.97 9701774.03 0.0499 0.0457

Saturn 21850-08-10 02:52 G 9701829.47 9701829.62 9701829.77 0.0286 0.0077

Saturn 21850-11-06 19:55 G 9701918.23 9701918.33 9701918.45 0.0286 0.0201

Mars 21851-11-27 21:50 G 9702304.28 9702304.41 9702304.54 0.1627 0.0626

Moon 21853-06-29 23:45 G 9702884.43 9702884.49 9702884.55 0.2656 0.2343

Earth 21853-06-30 00:43 G 9702884.49 9702884.53 9702884.58 0.2652 0.2447 *

Moon 21855-12-29 05:45 G 9703796.65 9703796.74 9703796.84 0.2687 0.1606

Earth 21855-12-29 06:00 G 9703796.66 9703796.75 9703796.85 0.2679 0.1608 *

Jupiter 21856-08-16 00:28 G 9704027.36 9704027.52 9704027.67 0.0527 0.0141

Mars 21861-04-19 05:45 G 9705734.67 9705734.74 9705734.81 0.1631 0.1359

Jupiter 21862-01-04 04:33 G 9705994.57 9705994.69 9705994.81 0.0503 0.0261

Jupiter 21862-04-03 14:24 G 9706083.99 9706084.10 9706084.22 0.0500 0.0315

Saturn 21865-02-21 09:21 G 9707138.78 9707138.89 9707139.00 0.0272 0.0181

Saturn 21865-05-20 22:33 G 9707227.30 9707227.44 9707227.58 0.0273 0.0083

Saturn 21865-08-17 12:00 G 9707315.85 9707316.00 9707316.15 0.0273 0.0017

Saturn 21865-11-14 01:40 G 9707404.44 9707404.57 9707404.71 0.0273 0.0120

Saturn 21866-02-10 15:50 G 9707493.08 9707493.16 9707493.24 0.0274 0.0225

Jupiter 21868-06-04 00:00 G 9708337.35 9708337.50 9708337.66 0.0526 0.0050

Venus 21869-02-27 05:16 G 9708605.62 9708605.72 9708605.82 0.3692 0.2113

Mars 21872-08-15 06:28 G 9709870.66 9709870.77 9709870.88 0.1618 0.0965

Moon 21873-06-25 06:00 G 9710184.63 9710184.75 9710184.87 0.2647 0.1226

Earth 21873-06-25 06:57 G 9710184.67 9710184.79 9710184.91 0.2652 0.1195 *

Jupiter 21873-10-23 07:55 G 9710304.75 9710304.83 9710304.92 0.0504 0.0398

Jupiter 21874-01-20 17:45 G 9710394.10 9710394.24 9710394.37 0.0501 0.0173

Venus 21874-09-13 01:40 G 9710629.45 9710629.57 9710629.69 0.3692 0.0304

Moon 21875-12-24 17:31 G 9711097.13 9711097.23 9711097.33 0.2679 0.1500

Earth 21875-12-24 18:28 G 9711097.16 9711097.27 9711097.37 0.2679 0.1444 *

Venus 21876-03-25 19:12 G 9711189.20 9711189.30 9711189.40 0.3679 0.2100

Mars 21879-04-11 17:16 G 9712301.10 9712301.22 9712301.34 0.1918 0.0798

Saturn 21879-07-03 13:55 G 9712383.98 9712384.08 9712384.18 0.0286 0.0227

Saturn 21879-09-30 08:09 G 9712472.69 9712472.84 9712473.00 0.0286 0.0096

Neptune 21879-10-31 19:55 G 9712504.30 9712504.33 9712504.38 0.0088 0.0084

Saturn 21879-12-28 02:09 G 9712561.43 9712561.59 9712561.75 0.0286 0.0033

Neptune 21880-01-27 21:50 G 9712592.34 9712592.41 9712592.48 0.0088 0.0077

Jupiter 21880-03-23 00:14 G 9712647.37 9712647.51 9712647.66 0.0526 0.0229

Saturn 21880-03-25 19:26 G 9712650.18 9712650.31 9712650.44 0.0286 0.0157

Venus 21880-03-28 21:36 G 9712653.29 9712653.40 9712653.51 0.3693 0.1430

Neptune 21880-04-24 23:31 G 9712680.40 9712680.48 9712680.58 0.0088 0.0070

Jupiter 21880-06-20 23:31 G 9712737.46 9712737.48 9712737.49 0.0529 0.0525

Saturn 21880-06-22 12:28 G 9712738.99 9712739.02 9712739.05 0.0285 0.0278

Neptune 21880-07-22 01:12 G 9712768.46 9712768.55 9712768.66 0.0088 0.0063

Neptune 21880-10-18 02:52 G 9712856.52 9712856.62 9712856.75 0.0088 0.0056

Neptune 21881-01-14 05:02 G 9712944.58 9712944.71 9712944.83 0.0088 0.0048

Neptune 21881-04-12 06:43 G 9713032.65 9713032.78 9713032.91 0.0088 0.0040

Neptune 21881-07-09 08:24 G 9713120.72 9713120.85 9713121.00 0.0088 0.0033

Neptune 21881-10-05 10:19 G 9713208.79 9713208.93 9713209.08 0.0088 0.0026

Venus 21881-10-09 16:04 G 9713213.05 9713213.17 9713213.30 0.3679 0.0273

Neptune 21882-01-01 12:00 G 9713296.86 9713297.00 9713297.15 0.0088 0.0019

Mars 21882-01-05 14:09 G 9713300.95 9713301.09 9713301.23 0.1623 0.0219

Neptune 21882-03-30 13:55 G 9713384.93 9713385.08 9713385.23 0.0088 0.0011

Neptune 21882-06-26 15:50 G 9713473.01 9713473.16 9713473.31 0.0088 0.0003

Neptune 21882-09-22 17:31 G 9713561.09 9713561.23 9713561.39 0.0088 0.0006

Neptune 21882-12-19 19:26 G 9713649.16 9713649.31 9713649.46 0.0088 0.0012

Neptune 21883-03-17 21:21 G 9713737.24 9713737.39 9713737.54 0.0088 0.0019

Neptune 21883-06-13 23:02 G 9713825.32 9713825.46 9713825.61 0.0088 0.0027

Neptune 21883-09-10 01:12 G 9713913.41 9713913.55 9713913.69 0.0088 0.0035

Uranus 21883-09-10 00:14 G 9713913.44 9713913.51 9713913.59 0.0145 0.0126 *

Neptune 21883-12-07 02:52 G 9714001.49 9714001.62 9714001.76 0.0088 0.0042

Uranus 21883-12-07 05:16 G 9714001.62 9714001.72 9714001.83 0.0145 0.0103 *

Neptune 21884-03-04 04:33 G 9714089.58 9714089.69 9714089.83 0.0088 0.0050

Uranus 21884-03-04 10:04 G 9714089.80 9714089.92 9714090.06 0.0145 0.0080 *

Neptune 21884-05-31 06:43 G 9714177.67 9714177.78 9714177.90 0.0088 0.0057

Uranus 21884-05-31 15:21 G 9714178.00 9714178.14 9714178.28 0.0145 0.0057

Neptune 21884-08-27 08:24 G 9714265.76 9714265.85 9714265.97 0.0088 0.0066

Uranus 21884-08-27 20:24 G 9714266.20 9714266.35 9714266.50 0.0145 0.0033

Neptune 21884-11-23 10:19 G 9714353.86 9714353.93 9714354.03 0.0088 0.0073

Uranus 21884-11-24 01:40 G 9714354.41 9714354.57 9714354.72 0.0145 0.0010

Neptune 21885-02-19 12:28 G 9714441.97 9714442.02 9714442.09 0.0088 0.0081

Uranus 21885-02-20 06:43 G 9714442.63 9714442.78 9714442.94 0.0145 0.0015

Uranus 21885-05-19 12:00 G 9714530.85 9714531.00 9714531.15 0.0145 0.0039

Uranus 21885-08-15 17:16 G 9714619.08 9714619.22 9714619.36 0.0145 0.0063

Venus 21885-10-12 17:16 G 9714677.16 9714677.22 9714677.28 0.3693 0.3098

Jupiter 21885-11-08 20:24 G 9714704.21 9714704.35 9714704.49 0.0501 0.0024

Uranus 21885-11-11 22:33 G 9714707.32 9714707.44 9714707.57 0.0145 0.0087

Uranus 21886-02-08 03:50 G 9714795.57 9714795.66 9714795.77 0.0145 0.0112

Uranus 21886-05-07 09:07 G 9714883.85 9714883.88 9714883.94 0.0145 0.0137

Moon 21886-06-28 05:45 G 9714935.61 9714935.74 9714935.87 0.2653 0.0658

Earth 21886-06-28 06:57 G 9714935.66 9714935.79 9714935.92 0.2652 0.0871 *

Venus 21887-04-25 13:26 G 9715236.95 9715237.06 9715237.17 0.3678 0.1681

Mars 21888-08-31 20:38 G 9715731.23 9715731.36 9715731.49 0.1912 0.0509

Moon 21888-12-26 14:09 G 9715847.97 9715848.09 9715848.21 0.2684 0.0139

Earth 21888-12-26 14:38 G 9715847.99 9715848.11 9715848.23 0.2679 0.0241 *

Mars 21891-05-28 22:04 G 9716731.29 9716731.42 9716731.55 0.1627 0.0516

Jupiter 21892-01-10 00:00 G 9716957.40 9716957.50 9716957.60 0.0525 0.0416

Jupiter 21892-04-08 23:45 G 9717047.37 9717047.49 9717047.61 0.0528 0.0344

Saturn 21894-07-11 10:33 G 9717870.86 9717870.94 9717871.04 0.0273 0.0213

Saturn 21894-10-07 23:45 G 9717959.36 9717959.49 9717959.63 0.0273 0.0115

Saturn 21895-01-04 13:12 G 9718047.90 9718048.05 9718048.20 0.0273 0.0016

Saturn 21895-04-03 02:52 G 9718136.48 9718136.62 9718136.76 0.0273 0.0087

Saturn 21895-06-30 16:48 G 9718225.10 9718225.20 9718225.31 0.0274 0.0192

Jupiter 21897-08-27 23:31 G 9719014.34 9719014.48 9719014.62 0.0502 0.0121

Jupiter 21897-11-25 09:50 G 9719103.85 9719103.91 9719103.96 0.0499 0.0457

Mars 21898-01-22 00:00 G 9719161.46 9719161.50 9719161.53 0.1906 0.1818

Mars 21900-10-19 06:00 G 9720161.67 9720161.75 9720161.84 0.1631 0.1247

Moon 21901-12-30 11:02 G 9720598.88 9720598.96 9720599.05 0.2686 0.1952

Earth 21901-12-30 11:16 G 9720598.89 9720598.97 9720599.05 0.2679 0.1965 *

Jupiter 21904-01-27 22:33 G 9721357.29 9721357.44 9721357.60 0.0527 0.0146

Saturn 21908-11-20 15:50 G 9723116.10 9723116.16 9723116.24 0.0287 0.0255

Saturn 21909-02-17 10:19 G 9723204.79 9723204.93 9723205.08 0.0287 0.0122

Saturn 21909-05-17 04:33 G 9723293.53 9723293.69 9723293.85 0.0287 0.0010

Jupiter 21909-06-17 02:38 G 9723324.49 9723324.61 9723324.73 0.0503 0.0262

Saturn 21909-08-13 21:50 G 9723382.28 9723382.41 9723382.56 0.0286 0.0134

Jupiter 21909-09-14 12:43 G 9723413.92 9723414.03 9723414.14 0.0500 0.0314

Saturn 21909-11-10 15:07 G 9723471.06 9723471.13 9723471.19 0.0286 0.0255

Mars 21912-02-15 06:43 G 9724297.68 9724297.78 9724297.88 0.1618 0.1079

Jupiter 21915-11-15 22:19 G 9725667.27 9725667.43 9725667.58 0.0526 0.0049

Mars 21918-10-11 17:31 G 9726728.12 9726728.23 9726728.35 0.1918 0.0942

Moon 21919-06-27 11:45 G 9726986.86 9726986.99 9726987.12 0.2648 0.0964

Earth 21919-06-27 12:43 G 9726986.90 9726987.03 9726987.16 0.2652 0.0758 *

Venus 21920-03-21 07:26 G 9727254.77 9727254.81 9727254.86 0.3691 0.3399

Jupiter 21921-04-05 06:14 G 9727634.67 9727634.76 9727634.84 0.0504 0.0399

Jupiter 21921-07-03 15:50 G 9727724.03 9727724.16 9727724.30 0.0501 0.0174

Mars 21921-07-07 14:24 G 9727727.96 9727728.10 9727728.23 0.1622 0.0331

Moon 21921-12-25 22:33 G 9727899.34 9727899.44 9727899.55 0.2679 0.1290

Earth 21921-12-25 23:31 G 9727899.37 9727899.48 9727899.59 0.2679 0.1093 *

Saturn 21923-11-29 13:12 G 9728602.98 9728603.05 9728603.12 0.0272 0.0237

Saturn 21924-02-26 02:09 G 9728691.47 9728691.59 9728691.72 0.0272 0.0140

Saturn 21924-05-24 15:36 G 9728780.00 9728780.15 9728780.29 0.0273 0.0042

Saturn 21924-08-21 05:02 G 9728868.57 9728868.71 9728868.86 0.0273 0.0060

Saturn 21924-11-17 18:43 G 9728957.17 9728957.28 9728957.41 0.0273 0.0165

Saturn 21925-02-14 09:07 G 9729045.86 9729045.88 9729045.90 0.0274 0.0270

Uranus 21925-07-05 22:19 G 9729187.40 9729187.43 9729187.48 0.0133 0.0129

Uranus 21925-10-02 03:21 G 9729275.55 9729275.64 9729275.74 0.0133 0.0108

Venus 21925-10-05 04:04 G 9729278.56 9729278.67 9729278.78 0.3692 0.1521

Uranus 21925-12-29 08:09 G 9729363.73 9729363.84 9729363.97 0.0133 0.0089

Uranus 21926-03-27 13:12 G 9729451.91 9729452.05 9729452.19 0.0133 0.0069

Uranus 21926-06-23 17:45 G 9729540.10 9729540.24 9729540.40 0.0133 0.0050

Uranus 21926-09-19 22:48 G 9729628.29 9729628.45 9729628.60 0.0133 0.0030

Uranus 21926-12-17 03:21 G 9729716.48 9729716.64 9729716.80 0.0133 0.0010

Uranus 21927-03-15 08:09 G 9729804.68 9729804.84 9729805.00 0.0133 0.0009

Venus 21927-04-17 21:21 G 9729838.34 9729838.39 9729838.44 0.3680 0.3302

Uranus 21927-06-11 12:43 G 9729892.88 9729893.03 9729893.19 0.0133 0.0028

Jupiter 21927-09-03 21:36 G 9729977.26 9729977.40 9729977.55 0.0525 0.0238

Uranus 21927-09-07 17:16 G 9729981.08 9729981.22 9729981.37 0.0133 0.0048

Jupiter 21927-12-02 20:52 G 9730067.34 9730067.37 9730067.40 0.0529 0.0516

Uranus 21927-12-04 21:50 G 9730069.28 9730069.41 9730069.55 0.0133 0.0066

Uranus 21928-03-02 02:09 G 9730157.48 9730157.59 9730157.72 0.0133 0.0086

Mars 21928-03-02 21:07 G 9730158.24 9730158.38 9730158.51 0.1912 0.0358

Uranus 21928-05-29 06:57 G 9730245.69 9730245.79 9730245.89 0.0133 0.0104

Uranus 21928-08-25 11:16 G 9730333.92 9730333.97 9730334.04 0.0133 0.0122

Mars 21930-11-27 22:19 G 9731158.29 9731158.43 9731158.56 0.1627 0.0409

Venus 21931-04-21 00:14 G 9731302.39 9731302.51 9731302.63 0.3692 0.0263

Moon 21932-06-29 11:16 G 9731737.85 9731737.97 9731738.09 0.2654 0.1218

Earth 21932-06-29 12:28 G 9731737.91 9731738.02 9731738.14 0.2652 0.1287 *

Venus 21932-10-31 18:00 G 9731862.14 9731862.25 9731862.36 0.3679 0.1526

Jupiter 21933-04-21 19:12 G 9732034.16 9732034.30 9732034.44 0.0502 0.0034

Moon 21934-12-28 19:26 G 9732650.19 9732650.31 9732650.42 0.2685 0.0583

Earth 21934-12-28 19:55 G 9732650.21 9732650.33 9732650.45 0.2679 0.0587 *

Venus 21936-11-03 20:09 G 9733326.24 9733326.34 9733326.44 0.3693 0.1981

Mars 21937-07-24 00:14 G 9733588.45 9733588.51 9733588.57 0.1906 0.1678

Venus 21938-05-17 15:07 G 9733886.01 9733886.13 9733886.25 0.3678 0.0352

Saturn 21938-07-07 09:21 G 9733936.76 9733936.89 9733937.02 0.0286 0.0168

Saturn 21938-10-04 03:21 G 9734025.49 9734025.64 9734025.81 0.0286 0.0039

Saturn 21938-12-31 21:07 G 9734114.23 9734114.38 9734114.53 0.0286 0.0089

Saturn 21939-03-30 14:24 G 9734202.99 9734203.10 9734203.20 0.0285 0.0212

Jupiter 21939-06-22 21:36 G 9734287.31 9734287.40 9734287.50 0.0524 0.0420

Jupiter 21939-09-20 21:36 G 9734377.28 9734377.40 9734377.52 0.0528 0.0341

Mars 21940-04-19 06:14 G 9734588.66 9734588.76 9734588.86 0.1631 0.1143

Venus 21942-05-20 15:36 G 9735350.13 9735350.15 9735350.17 0.3693 0.3620

Venus 21943-12-01 12:28 G 9735909.93 9735910.02 9735910.12 0.3678 0.2313

Jupiter 21945-02-07 22:04 G 9736344.29 9736344.42 9736344.56 0.0502 0.0114

Jupiter 21945-05-08 08:24 G 9736433.80 9736433.85 9736433.90 0.0499 0.0465

Moon 21947-12-31 16:33 G 9737401.13 9737401.19 9737401.25 0.2686 0.2309

Earth 21947-12-31 16:33 G 9737401.13 9737401.19 9737401.24 0.2679 0.2320 *

Jupiter 21951-07-09 21:50 G 9738687.25 9738687.41 9738687.56 0.0527 0.0161

Mars 21951-08-16 06:57 G 9738724.69 9738724.79 9738724.88 0.1618 0.1191

Moon 21952-06-24 17:31 G 9739038.20 9739038.23 9739038.26 0.2646 0.2564

Earth 21952-06-24 18:14 G 9739038.21 9739038.26 9739038.31 0.2652 0.2450 *

Saturn 21953-04-17 14:09 G 9739335.09 9739335.09 9739335.10 0.0272 0.0271

Saturn 21953-07-15 03:07 G 9739423.52 9739423.63 9739423.74 0.0273 0.0176

Saturn 21953-10-11 16:19 G 9739512.04 9739512.18 9739512.32 0.0273 0.0077

Saturn 21954-01-08 05:45 G 9739600.59 9739600.74 9739600.89 0.0273 0.0024

Saturn 21954-04-06 19:26 G 9739689.18 9739689.31 9739689.45 0.0273 0.0127

Saturn 21954-07-04 09:21 G 9739777.82 9739777.89 9739777.98 0.0274 0.0233

Moon 21954-12-24 07:40 G 9739950.79 9739950.82 9739950.85 0.2676 0.2552

Earth 21954-12-24 08:24 G 9739950.80 9739950.85 9739950.91 0.2679 0.2397 *

Jupiter 21956-11-27 01:26 G 9740654.44 9740654.56 9740654.68 0.0503 0.0255

Jupiter 21957-02-24 11:16 G 9740743.86 9740743.97 9740744.08 0.0500 0.0320

Mars 21958-04-11 17:45 G 9741155.13 9741155.24 9741155.35 0.1919 0.1083

Mars 21961-01-05 14:38 G 9742154.98 9742155.11 9742155.25 0.1622 0.0448

Pluto 21963-02-21 18:28 G 9742932.26 9742932.27 9742932.29 0.0070 0.0069

Neptune 21963-04-27 05:16 G 9742996.69 9742996.72 9742996.77 0.0089 0.0086

Jupiter 21963-04-27 20:38 G 9742997.20 9742997.36 9742997.52 0.0526 0.0040

Pluto 21963-05-20 18:57 G 9743020.24 9743020.29 9743020.37 0.0070 0.0060

Neptune 21963-07-24 07:55 G 9743084.76 9743084.83 9743084.92 0.0089 0.0077

Pluto 21963-08-16 19:26 G 9743108.24 9743108.31 9743108.42 0.0070 0.0052

Neptune 21963-10-20 10:33 G 9743172.84 9743172.94 9743173.06 0.0089 0.0068

Pluto 21963-11-12 20:24 G 9743196.25 9743196.35 9743196.46 0.0070 0.0041

Neptune 21964-01-16 13:12 G 9743260.93 9743261.05 9743261.18 0.0089 0.0059

Pluto 21964-02-08 20:52 G 9743284.26 9743284.37 9743284.49 0.0070 0.0032

Neptune 21964-04-13 15:50 G 9743349.03 9743349.16 9743349.30 0.0089 0.0051

Pluto 21964-05-06 21:36 G 9743372.28 9743372.40 9743372.53 0.0070 0.0023

Neptune 21964-07-10 18:14 G 9743437.12 9743437.26 9743437.42 0.0089 0.0042

Pluto 21964-08-02 22:04 G 9743460.30 9743460.42 9743460.56 0.0071 0.0014

Neptune 21964-10-06 20:52 G 9743525.22 9743525.37 9743525.53 0.0089 0.0033

Pluto 21964-10-29 22:48 G 9743548.32 9743548.45 9743548.58 0.0071 0.0004

Neptune 21965-01-02 23:31 G 9743613.32 9743613.48 9743613.64 0.0089 0.0024

Pluto 21965-01-25 23:31 G 9743636.35 9743636.48 9743636.61 0.0071 0.0006

Neptune 21965-04-01 01:55 G 9743701.42 9743701.58 9743701.75 0.0089 0.0016

Pluto 21965-04-24 00:00 G 9743724.38 9743724.50 9743724.63 0.0071 0.0016

Moon 21965-06-27 17:16 G 9743789.08 9743789.22 9743789.35 0.2650 0.0408

Earth 21965-06-27 18:28 G 9743789.13 9743789.27 9743789.40 0.2652 0.0351 *

Neptune 21965-06-28 04:33 G 9743789.53 9743789.69 9743789.86 0.0089 0.0007

Pluto 21965-07-21 00:43 G 9743812.41 9743812.53 9743812.65 0.0071 0.0025

Neptune 21965-09-24 06:57 G 9743877.63 9743877.79 9743877.96 0.0089 0.0003

Pluto 21965-10-17 01:12 G 9743900.44 9743900.55 9743900.67 0.0071 0.0036

Neptune 21965-12-21 09:36 G 9743965.73 9743965.90 9743966.06 0.0089 0.0010

Pluto 21966-01-13 01:55 G 9743988.48 9743988.58 9743988.69 0.0071 0.0045

Neptune 21966-03-19 12:00 G 9744053.84 9744054.00 9744054.16 0.0089 0.0019

Pluto 21966-04-11 02:24 G 9744076.53 9744076.60 9744076.69 0.0071 0.0056

Neptune 21966-06-15 14:24 G 9744141.95 9744142.10 9744142.26 0.0089 0.0027

Pluto 21966-07-08 03:07 G 9744164.59 9744164.63 9744164.69 0.0072 0.0065

Neptune 21966-09-11 16:48 G 9744230.05 9744230.20 9744230.36 0.0089 0.0036

Neptune 21966-12-08 19:12 G 9744318.16 9744318.30 9744318.45 0.0089 0.0044

Neptune 21967-03-06 21:36 G 9744406.27 9744406.40 9744406.54 0.0089 0.0053

Neptune 21967-06-02 23:45 G 9744494.39 9744494.49 9744494.62 0.0089 0.0061

Uranus 21967-07-05 02:24 G 9744526.59 9744526.60 9744526.64 0.0145 0.0143

Neptune 21967-08-30 02:09 G 9744582.50 9744582.59 9744582.71 0.0089 0.0070

Mars 21967-09-01 21:21 G 9744585.26 9744585.39 9744585.53 0.1913 0.0211

Uranus 21967-10-01 07:26 G 9744614.74 9744614.81 9744614.90 0.0145 0.0120

Saturn 21967-11-24 10:48 G 9744668.84 9744668.95 9744669.07 0.0287 0.0200

Neptune 21967-11-26 04:48 G 9744670.63 9744670.70 9744670.78 0.0089 0.0077

Moon 21967-12-27 03:50 G 9744701.54 9744701.66 9744701.77 0.2681 0.0799

Earth 21967-12-27 04:33 G 9744701.58 9744701.69 9744701.81 0.2679 0.0759 *

Uranus 21967-12-28 12:28 G 9744702.91 9744703.02 9744703.14 0.0145 0.0097

Saturn 21968-02-21 05:16 G 9744757.56 9744757.72 9744757.88 0.0287 0.0067

Neptune 21968-02-22 07:12 G 9744758.76 9744758.80 9744758.85 0.0089 0.0086

Uranus 21968-03-25 17:31 G 9744791.10 9744791.23 9744791.36 0.0145 0.0074

Saturn 21968-05-19 23:02 G 9744846.31 9744846.46 9744846.62 0.0287 0.0061

Uranus 21968-06-21 22:33 G 9744879.30 9744879.44 9744879.59 0.0145 0.0051

Saturn 21968-08-16 16:19 G 9744935.07 9744935.18 9744935.30 0.0286 0.0186

Jupiter 21968-09-15 04:33 G 9744964.61 9744964.69 9744964.77 0.0504 0.0398

Uranus 21968-09-18 03:50 G 9744967.51 9744967.66 9744967.81 0.0145 0.0027

Jupiter 21968-12-13 14:09 G 9745053.96 9745054.09 9745054.23 0.0501 0.0176

Uranus 21968-12-15 08:52 G 9745055.72 9745055.87 9745056.03 0.0145 0.0004

Uranus 21969-03-13 14:09 G 9745143.94 9745144.09 9745144.24 0.0145 0.0021

Uranus 21969-06-09 19:12 G 9745232.16 9745232.30 9745232.45 0.0145 0.0045

Uranus 21969-09-06 00:28 G 9745320.39 9745320.52 9745320.66 0.0145 0.0069

Uranus 21969-12-03 05:45 G 9745408.63 9745408.74 9745408.87 0.0145 0.0094

Uranus 21970-03-01 11:16 G 9745496.88 9745496.97 9745497.06 0.0145 0.0118

Uranus 21970-05-28 16:33 G 9745585.18 9745585.19 9745585.22 0.0145 0.0143

Mars 21970-05-28 22:33 G 9745585.30 9745585.44 9745585.58 0.1626 0.0295

Jupiter 21975-02-13 20:09 G 9747307.20 9747307.34 9747307.49 0.0525 0.0230

Jupiter 21975-05-14 19:12 G 9747397.29 9747397.30 9747397.33 0.0528 0.0522

Venus 21976-10-26 06:28 G 9747927.69 9747927.77 9747927.84 0.3691 0.2792

Mars 21977-01-22 00:28 G 9748015.44 9748015.52 9748015.60 0.1906 0.1536

Moon 21978-06-30 17:02 G 9748540.10 9748540.21 9748540.32 0.2654 0.1476

Earth 21978-06-30 18:14 G 9748540.16 9748540.26 9748540.36 0.2652 0.1703 *

Mars 21979-10-19 06:28 G 9749015.66 9749015.77 9749015.87 0.1631 0.1036

Jupiter 21980-10-01 17:31 G 9749364.09 9749364.23 9749364.38 0.0502 0.0039

Moon 21980-12-29 00:28 G 9749452.41 9749452.52 9749452.64 0.2685 0.0812

Earth 21980-12-29 00:57 G 9749452.43 9749452.54 9749452.66 0.2679 0.0947 *

Venus 21982-05-12 02:52 G 9749951.50 9749951.62 9749951.73 0.3692 0.0958

Saturn 21982-12-02 05:31 G 9750155.64 9750155.73 9750155.83 0.0272 0.0200

Saturn 21983-02-28 18:43 G 9750244.14 9750244.28 9750244.41 0.0272 0.0103

Saturn 21983-05-28 07:55 G 9750332.69 9750332.83 9750332.98 0.0273 0.0008

Saturn 21983-08-24 21:36 G 9750421.26 9750421.40 9750421.54 0.0273 0.0100

Saturn 21983-11-21 11:31 G 9750509.89 9750509.98 9750510.08 0.0273 0.0204

Venus 21983-11-22 20:09 G 9750511.26 9750511.34 9750511.42 0.3679 0.2742

Jupiter 21986-12-02 19:26 G 9751617.22 9751617.31 9751617.40 0.0524 0.0424

Jupiter 21987-03-02 19:12 G 9751707.18 9751707.30 9751707.42 0.0528 0.0336

Venus 21987-11-25 22:48 G 9751975.34 9751975.45 9751975.57 0.3693 0.0834

Venus 21989-06-07 17:02 G 9752535.09 9752535.21 9752535.32 0.3679 0.0937

Mars 21991-02-14 07:12 G 9753151.72 9753151.80 9753151.88 0.1618 0.1303

Jupiter 21992-07-20 21:07 G 9753674.24 9753674.38 9753674.52 0.0503 0.0102

Jupiter 21992-10-18 07:12 G 9753763.77 9753763.80 9753763.85 0.0499 0.0477

Venus 21993-06-10 18:43 G 9753999.19 9753999.28 9753999.36 0.3693 0.2522

Venus 21994-12-22 14:09 G 9754558.97 9754559.09 9754559.21 0.3678 0.0973

Saturn 21997-04-12 09:36 G 9755400.82 9755400.90 9755400.99 0.0287 0.0247

Saturn 21997-07-10 04:04 G 9755489.53 9755489.67 9755489.82 0.0286 0.0115

Saturn 21997-10-06 22:04 G 9755578.26 9755578.42 9755578.58 0.0286 0.0016

Mars 21997-10-10 18:14 G 9755582.16 9755582.26 9755582.36 0.1919 0.1232

Saturn 21998-01-03 15:36 G 9755667.02 9755667.15 9755667.29 0.0286 0.0141

Saturn 21998-04-02 08:38 G 9755755.81 9755755.86 9755755.92 0.0285 0.0262

Moon 21998-06-25 23:16 G 9755840.38 9755840.47 9755840.56 0.2646 0.2054

Earth 21998-06-26 00:00 G 9755840.41 9755840.50 9755840.58 0.2652 0.2011 *

Jupiter 21998-12-19 19:40 G 9756017.17 9756017.32 9756017.47 0.0527 0.0159

Mars 22000-07-06 14:52 G 9756581.99 9756582.12 9756582.25 0.1622 0.0556

Venus 22000-07-07 11:45 G 9756582.91 9756582.99 9756583.06 0.3677 0.2970

Moon 22000-12-24 12:43 G 9756752.96 9756753.03 9756753.10 0.2676 0.2133

Earth 22000-12-24 13:40 G 9756752.99 9756753.07 9756753.14 0.2679 0.2063 *

23RD MILLENNIUM CE

This is a list of transits of Mercury in the 23rd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Jupiter 22004-05-09 00:14 G 9757984.39 9757984.51 9757984.63 0.0503 0.0246

Jupiter 22004-08-06 10:04 G 9758073.82 9758073.92 9758074.03 0.0500 0.0329

Mars 22007-03-02 21:36 G 9759012.26 9759012.40 9759012.53 0.1913 0.0091

Uranus 22009-07-26 05:02 G 9759888.67 9759888.71 9759888.78 0.0133 0.0125

Uranus 22009-10-22 10:04 G 9759976.83 9759976.92 9759977.03 0.0133 0.0104

Mars 22009-11-26 22:48 G 9760012.31 9760012.45 9760012.58 0.1627 0.0188

Uranus 22010-01-18 15:07 G 9760065.01 9760065.13 9760065.26 0.0133 0.0084

Uranus 22010-04-16 19:55 G 9760153.19 9760153.33 9760153.47 0.0133 0.0065

Uranus 22010-07-14 00:43 G 9760241.38 9760241.53 9760241.68 0.0133 0.0045

Jupiter 22010-10-07 19:55 G 9760327.17 9760327.33 9760327.49 0.0526 0.0025

Uranus 22010-10-10 05:31 G 9760329.57 9760329.73 9760329.89 0.0133 0.0025

Uranus 22011-01-06 10:19 G 9760417.77 9760417.93 9760418.09 0.0133 0.0006

Uranus 22011-04-04 14:52 G 9760505.96 9760506.12 9760506.28 0.0133 0.0013

Moon 22011-06-28 22:48 G 9760591.32 9760591.45 9760591.59 0.2652 0.0137

Earth 22011-06-29 00:00 G 9760591.37 9760591.50 9760591.64 0.2652 0.0107 *

Uranus 22011-07-01 19:26 G 9760594.16 9760594.31 9760594.47 0.0133 0.0033

Uranus 22011-09-28 00:14 G 9760682.36 9760682.51 9760682.65 0.0133 0.0051

Uranus 22011-12-25 04:33 G 9760770.56 9760770.69 9760770.83 0.0133 0.0071

Uranus 22012-03-22 09:07 G 9760858.77 9760858.88 9760859.00 0.0133 0.0089

Saturn 22012-04-20 06:00 G 9760887.69 9760887.75 9760887.83 0.0272 0.0238

Uranus 22012-06-18 13:40 G 9760946.98 9760947.07 9760947.17 0.0133 0.0108

Saturn 22012-07-17 19:12 G 9760976.17 9760976.30 9760976.42 0.0273 0.0141

Uranus 22012-09-14 18:00 G 9761035.21 9761035.25 9761035.31 0.0133 0.0126

Saturn 22012-10-14 08:24 G 9761064.71 9761064.85 9761065.00 0.0273 0.0042

Saturn 22013-01-10 21:50 G 9761153.27 9761153.41 9761153.56 0.0273 0.0060

Saturn 22013-04-09 11:45 G 9761241.87 9761241.99 9761242.11 0.0273 0.0164

Saturn 22013-07-07 01:55 G 9761330.56 9761330.58 9761330.60 0.0274 0.0270

Moon 22013-12-27 09:07 G 9761503.76 9761503.88 9761504.00 0.2683 0.0576

Earth 22013-12-27 09:50 G 9761503.79 9761503.91 9761504.03 0.2679 0.0408 *

Jupiter 22016-02-26 03:21 G 9762294.56 9762294.64 9762294.74 0.0504 0.0387

Jupiter 22016-05-25 13:12 G 9762383.92 9762384.05 9762384.18 0.0501 0.0185

Mars 22016-07-23 00:57 G 9762442.45 9762442.54 9762442.63 0.1907 0.1379

Mars 22019-04-19 06:43 G 9763442.67 9763442.78 9763442.89 0.1631 0.0922

Jupiter 22022-07-26 18:57 G 9764637.14 9764637.29 9764637.43 0.0525 0.0219

Moon 22024-06-30 22:48 G 9765342.37 9765342.45 9765342.53 0.2655 0.2063

Earth 22024-06-30 23:45 G 9765342.41 9765342.49 9765342.57 0.2652 0.2111 *

Saturn 22026-08-30 10:19 G 9766132.92 9766132.93 9766132.97 0.0288 0.0284

Saturn 22026-11-27 05:02 G 9766221.58 9766221.71 9766221.86 0.0287 0.0150

Moon 22026-12-30 05:45 G 9766254.64 9766254.74 9766254.85 0.2685 0.1308

Earth 22026-12-30 06:14 G 9766254.65 9766254.76 9766254.87 0.2679 0.1291 *

Saturn 22027-02-23 23:16 G 9766310.31 9766310.47 9766310.64 0.0287 0.0020

Saturn 22027-05-23 17:02 G 9766399.07 9766399.21 9766399.36 0.0287 0.0109

Saturn 22027-08-20 10:19 G 9766487.84 9766487.93 9766488.02 0.0286 0.0233

Jupiter 22028-03-13 16:04 G 9766694.03 9766694.17 9766694.31 0.0502 0.0040

Mars 22030-08-15 07:26 G 9767578.75 9767578.81 9767578.88 0.1618 0.1422

Venus 22033-06-02 05:02 G 9768600.62 9768600.71 9768600.81 0.3691 0.2198

Jupiter 22034-05-14 18:14 G 9768947.16 9768947.26 9768947.36 0.0524 0.0411

Jupiter 22034-08-12 18:00 G 9769037.13 9769037.25 9769037.37 0.0527 0.0347

Mars 22037-04-10 18:28 G 9770009.18 9770009.27 9770009.36 0.1919 0.1366

Venus 22038-12-17 01:26 G 9770624.44 9770624.56 9770624.68 0.3692 0.0371

Jupiter 22039-12-31 19:26 G 9771004.17 9771004.31 9771004.45 0.0503 0.0099

Mars 22040-01-05 15:07 G 9771009.00 9771009.13 9771009.25 0.1622 0.0667

Jupiter 22040-03-30 05:45 G 9771093.71 9771093.74 9771093.78 0.0500 0.0481

Venus 22040-06-28 18:57 G 9771184.20 9771184.29 9771184.39 0.3679 0.2166

Saturn 22041-09-07 08:38 G 9771619.83 9771619.86 9771619.91 0.0272 0.0261

Saturn 22041-12-04 21:36 G 9771708.29 9771708.40 9771708.52 0.0272 0.0165

Saturn 22042-03-03 10:48 G 9771796.81 9771796.95 9771797.09 0.0272 0.0067

Saturn 22042-05-31 00:14 G 9771885.36 9771885.51 9771885.66 0.0272 0.0033

Saturn 22042-08-27 13:55 G 9771973.95 9771974.08 9771974.21 0.0273 0.0136

Saturn 22042-11-24 04:04 G 9772062.60 9772062.67 9772062.74 0.0273 0.0242

Neptune 22044-05-01 18:14 G 9772587.24 9772587.26 9772587.29 0.0088 0.0087

Moon 22044-06-26 04:48 G 9772642.59 9772642.70 9772642.81 0.2647 0.1675

Earth 22044-06-26 05:31 G 9772642.62 9772642.73 9772642.84 0.2652 0.1580 *

Venus 22044-07-01 21:36 G 9772648.29 9772648.40 9772648.51 0.3693 0.1391

Neptune 22044-07-28 19:55 G 9772675.27 9772675.33 9772675.40 0.0088 0.0080

Neptune 22044-10-24 21:36 G 9772763.33 9772763.40 9772763.49 0.0088 0.0072

Neptune 22045-01-20 23:16 G 9772851.38 9772851.47 9772851.58 0.0088 0.0065

Neptune 22045-04-19 00:57 G 9772939.44 9772939.54 9772939.67 0.0088 0.0058

Neptune 22045-07-16 02:52 G 9773027.51 9773027.62 9773027.75 0.0088 0.0051

Neptune 22045-10-12 04:48 G 9773115.57 9773115.70 9773115.83 0.0088 0.0043

Neptune 22046-01-08 06:28 G 9773203.64 9773203.77 9773203.91 0.0088 0.0036

Venus 22046-01-12 15:50 G 9773208.04 9773208.16 9773208.29 0.3678 0.0339

Neptune 22046-04-06 08:24 G 9773291.71 9773291.85 9773291.99 0.0088 0.0028

Jupiter 22046-05-31 17:31 G 9773347.08 9773347.23 9773347.39 0.0527 0.0159

Neptune 22046-07-03 10:04 G 9773379.78 9773379.92 9773380.07 0.0088 0.0021

Mars 22046-08-31 22:04 G 9773439.28 9773439.42 9773439.55 0.1913 0.0088

Neptune 22046-09-29 12:00 G 9773467.85 9773468.00 9773468.15 0.0088 0.0014

Moon 22046-12-25 18:00 G 9773555.16 9773555.25 9773555.33 0.2677 0.1858

Earth 22046-12-25 18:43 G 9773555.19 9773555.28 9773555.37 0.2679 0.1723 *

Neptune 22046-12-26 13:55 G 9773555.93 9773556.08 9773556.23 0.0088 0.0006

Neptune 22047-03-24 15:36 G 9773644.00 9773644.15 9773644.30 0.0088 0.0003

Neptune 22047-06-20 17:31 G 9773732.08 9773732.23 9773732.38 0.0088 0.0009

Neptune 22047-09-16 19:26 G 9773820.16 9773820.31 9773820.45 0.0088 0.0016

Neptune 22047-12-13 21:07 G 9773908.24 9773908.38 9773908.53 0.0088 0.0024

Neptune 22048-03-10 23:02 G 9773996.32 9773996.46 9773996.60 0.0088 0.0031

Neptune 22048-06-07 00:43 G 9774084.41 9774084.53 9774084.68 0.0088 0.0039

Neptune 22048-09-03 02:52 G 9774172.49 9774172.62 9774172.75 0.0088 0.0047

Neptune 22048-11-30 04:33 G 9774260.58 9774260.69 9774260.82 0.0088 0.0054

Neptune 22049-02-26 06:14 G 9774348.67 9774348.76 9774348.88 0.0088 0.0063

Pluto 22049-04-03 11:45 G 9774384.90 9774384.99 9774385.11 0.0074 0.0062

Neptune 22049-05-25 08:38 G 9774436.76 9774436.86 9774436.95 0.0088 0.0070

Mars 22049-05-27 23:02 G 9774439.32 9774439.46 9774439.60 0.1626 0.0083

Pluto 22049-06-30 14:24 G 9774472.96 9774473.10 9774473.27 0.0073 0.0046

Neptune 22049-08-21 10:19 G 9774524.87 9774524.93 9774525.01 0.0088 0.0077

Pluto 22049-09-26 16:48 G 9774561.03 9774561.20 9774561.40 0.0073 0.0030

Neptune 22049-11-17 12:00 G 9774612.98 9774613.00 9774613.05 0.0088 0.0085

Pluto 22049-12-23 19:26 G 9774649.12 9774649.31 9774649.51 0.0073 0.0013

Venus 22050-01-15 17:16 G 9774672.15 9774672.22 9774672.28 0.3693 0.3066

Pluto 22050-03-21 22:04 G 9774737.22 9774737.42 9774737.62 0.0073 0.0003

Pluto 22050-06-18 00:14 G 9774825.33 9774825.51 9774825.72 0.0073 0.0019

Pluto 22050-09-14 02:38 G 9774913.45 9774913.61 9774913.80 0.0073 0.0035

Pluto 22050-12-11 05:16 G 9775001.59 9775001.72 9775001.87 0.0073 0.0050

Pluto 22051-03-09 07:26 G 9775089.75 9775089.81 9775089.91 0.0073 0.0066

Uranus 22051-07-25 09:50 G 9775227.87 9775227.91 9775227.96 0.0145 0.0137

Venus 22051-07-29 13:12 G 9775231.94 9775232.05 9775232.16 0.3678 0.1610

Jupiter 22051-10-19 23:02 G 9775314.34 9775314.46 9775314.59 0.0504 0.0235

Uranus 22051-10-21 14:52 G 9775316.03 9775316.12 9775316.21 0.0145 0.0114

Jupiter 22052-01-17 09:07 G 9775403.77 9775403.88 9775403.98 0.0500 0.0341

Uranus 22052-01-17 19:26 G 9775404.21 9775404.31 9775404.44 0.0145 0.0092

Uranus 22052-04-15 00:43 G 9775492.40 9775492.53 9775492.66 0.0145 0.0068

Uranus 22052-07-12 05:45 G 9775580.60 9775580.74 9775580.89 0.0145 0.0045

Uranus 22052-10-08 10:48 G 9775668.80 9775668.95 9775669.11 0.0145 0.0022

Uranus 22053-01-04 16:04 G 9775757.02 9775757.17 9775757.32 0.0145 0.0002

Uranus 22053-04-02 21:07 G 9775845.23 9775845.38 9775845.54 0.0145 0.0027

Uranus 22053-06-30 02:24 G 9775933.46 9775933.60 9775933.75 0.0145 0.0051

Uranus 22053-09-26 07:40 G 9776021.69 9776021.82 9776021.96 0.0145 0.0075

Uranus 22053-12-23 12:57 G 9776109.93 9776110.04 9776110.16 0.0145 0.0099

Uranus 22054-03-21 18:14 G 9776198.19 9776198.26 9776198.35 0.0145 0.0124

Mars 22056-01-22 01:12 G 9776869.45 9776869.55 9776869.65 0.1906 0.1247

Saturn 22056-04-15 03:50 G 9776953.55 9776953.66 9776953.78 0.0287 0.0198

Saturn 22056-07-12 22:19 G 9777042.27 9777042.43 9777042.59 0.0287 0.0065

Saturn 22056-10-09 16:04 G 9777131.02 9777131.17 9777131.33 0.0286 0.0063

Saturn 22057-01-06 09:21 G 9777219.78 9777219.89 9777220.01 0.0286 0.0188

Venus 22057-02-11 10:48 G 9777255.94 9777255.95 9777255.97 0.3677 0.3641

Moon 22057-06-29 04:33 G 9777393.55 9777393.69 9777393.82 0.2652 0.0403

Earth 22057-06-29 05:45 G 9777393.61 9777393.74 9777393.87 0.2652 0.0512 *

Jupiter 22058-03-19 18:00 G 9777657.09 9777657.25 9777657.41 0.0526 0.0026

Mars 22058-10-18 06:57 G 9777869.67 9777869.79 9777869.90 0.1631 0.0820

Moon 22059-12-28 14:09 G 9778305.97 9778306.09 9778306.21 0.2684 0.0127

Earth 22059-12-28 14:52 G 9778306.00 9778306.12 9778306.24 0.2679 0.0095 *

Jupiter 22063-08-08 02:24 G 9779624.51 9779624.60 9779624.69 0.0504 0.0376

Jupiter 22063-11-05 12:00 G 9779713.87 9779714.00 9779714.13 0.0501 0.0196

Mars 22068-03-09 14:52 G 9781300.08 9781300.12 9781300.16 0.1636 0.1549

Jupiter 22070-01-05 18:00 G 9781967.10 9781967.25 9781967.40 0.0525 0.0203

Mars 22070-02-13 07:40 G 9782005.78 9782005.82 9782005.86 0.1618 0.1532

Moon 22070-07-02 04:33 G 9782144.64 9782144.69 9782144.75 0.2656 0.2354

Earth 22070-07-02 05:31 G 9782144.69 9782144.73 9782144.77 0.2652 0.2526 *

Saturn 22071-04-23 22:04 G 9782440.32 9782440.42 9782440.51 0.0272 0.0204

Saturn 22071-07-21 11:02 G 9782528.83 9782528.96 9782529.10 0.0272 0.0107

Saturn 22071-10-18 00:14 G 9782617.37 9782617.51 9782617.66 0.0273 0.0011

Saturn 22072-01-14 13:55 G 9782705.94 9782706.08 9782706.22 0.0273 0.0094

Saturn 22072-04-12 03:50 G 9782794.56 9782794.66 9782794.76 0.0273 0.0199

Moon 22072-12-30 11:16 G 9783056.87 9783056.97 9783057.06 0.2685 0.1556

Earth 22072-12-30 11:31 G 9783056.88 9783056.98 9783057.07 0.2679 0.1646 *

Jupiter 22075-08-24 15:07 G 9784023.99 9784024.13 9784024.28 0.0502 0.0055

Mars 22076-10-09 18:43 G 9784436.20 9784436.28 9784436.36 0.1919 0.1516

Mars 22079-07-06 15:21 G 9785436.02 9785436.14 9785436.26 0.1622 0.0785

Jupiter 22081-10-24 17:02 G 9786277.11 9786277.21 9786277.32 0.0524 0.0397

Jupiter 22082-01-22 16:48 G 9786367.09 9786367.20 9786367.32 0.0527 0.0361

Venus 22084-06-23 07:26 G 9787249.77 9787249.81 9787249.84 0.3691 0.3486

Saturn 22085-09-02 04:19 G 9787685.59 9787685.68 9787685.77 0.0288 0.0237

Saturn 22085-11-29 22:48 G 9787774.30 9787774.45 9787774.60 0.0287 0.0103

Saturn 22086-02-26 16:48 G 9787863.04 9787863.20 9787863.36 0.0287 0.0027

Mars 22086-03-01 22:19 G 9787866.30 9787866.43 9787866.56 0.1913 0.0224

Saturn 22086-05-26 10:19 G 9787951.80 9787951.93 9787952.07 0.0287 0.0154

Saturn 22086-08-23 03:36 G 9788040.61 9788040.65 9788040.69 0.0286 0.0276

Jupiter 22087-06-12 18:00 G 9788334.11 9788334.25 9788334.39 0.0503 0.0094

Jupiter 22087-09-10 04:19 G 9788423.66 9788423.68 9788423.71 0.0500 0.0488

Mars 22088-11-25 23:16 G 9788866.33 9788866.47 9788866.60 0.1626 0.0055

Venus 22090-01-07 03:50 G 9789273.55 9789273.66 9789273.77 0.3692 0.1601

Moon 22090-06-27 10:19 G 9789444.81 9789444.93 9789445.05 0.2649 0.1309

Earth 22090-06-27 11:16 G 9789444.85 9789444.97 9789445.10 0.2652 0.1146 *

Venus 22091-07-20 21:21 G 9789833.34 9789833.39 9789833.43 0.3679 0.3360

Moon 22092-12-25 23:02 G 9790357.36 9790357.46 9790357.56 0.2679 0.1502

Earth 22092-12-26 00:00 G 9790357.39 9790357.50 9790357.60 0.2679 0.1378 *

Uranus 22093-08-15 11:31 G 9790589.93 9790589.98 9790590.06 0.0133 0.0121

Jupiter 22093-11-10 16:33 G 9790677.05 9790677.19 9790677.35 0.0526 0.0175

Uranus 22093-11-11 16:33 G 9790678.10 9790678.19 9790678.31 0.0133 0.0101

Uranus 22094-02-07 21:36 G 9790766.28 9790766.40 9790766.53 0.0133 0.0081

Uranus 22094-05-07 02:24 G 9790854.46 9790854.60 9790854.75 0.0133 0.0061

Uranus 22094-08-03 07:26 G 9790942.65 9790942.81 9790942.96 0.0133 0.0042

Uranus 22094-10-30 12:00 G 9791030.85 9791031.00 9791031.16 0.0133 0.0022

Uranus 22095-01-26 16:48 G 9791119.04 9791119.20 9791119.36 0.0133 0.0003

Uranus 22095-04-24 21:36 G 9791207.24 9791207.40 9791207.56 0.0133 0.0017

Uranus 22095-07-22 02:09 G 9791295.44 9791295.59 9791295.74 0.0133 0.0036

Mars 22095-07-23 01:26 G 9791296.45 9791296.56 9791296.67 0.1907 0.1098

Venus 22095-07-24 00:14 G 9791297.39 9791297.51 9791297.63 0.3692 0.0221

Uranus 22095-10-18 06:43 G 9791383.64 9791383.78 9791383.93 0.0133 0.0055

Uranus 22096-01-14 11:16 G 9791471.84 9791471.97 9791472.11 0.0133 0.0074

Uranus 22096-04-11 15:50 G 9791560.05 9791560.16 9791560.28 0.0133 0.0092

Uranus 22096-07-08 20:09 G 9791648.27 9791648.34 9791648.44 0.0133 0.0111

Uranus 22096-10-05 00:43 G 9791736.50 9791736.53 9791736.57 0.0133 0.0129

Venus 22097-02-02 18:00 G 9791857.14 9791857.25 9791857.36 0.3679 0.1583

Mars 22098-04-18 06:57 G 9792296.67 9792296.79 9792296.92 0.1631 0.0711

Jupiter 22099-03-31 21:36 G 9792644.27 9792644.40 9792644.52 0.0504 0.0231

Jupiter 22099-06-29 07:40 G 9792733.71 9792733.82 9792733.92 0.0501 0.0347

Saturn	22100-09-11 00:28	G	9793172.45	9793172.52	9793172.60	0.0271	0.0228
Saturn	22100-12-08 13:26	G	9793260.94	9793261.06	9793261.19	0.0272	0.0132
Venus	22101-02-06 20:09	G	9793321.24	9793321.34	9793321.44	0.3693	0.1947
Saturn	22101-03-07 02:38	G	9793349.47	9793349.61	9793349.76	0.0272	0.0034
Saturn	22101-06-03 16:19	G	9793438.03	9793438.18	9793438.32	0.0272	0.0068
Saturn	22101-08-31 06:00	G	9793526.64	9793526.75	9793526.87	0.0273	0.0172
Venus	22102-08-20 14:52	G	9793881.00	9793881.12	9793881.24	0.3678	0.0298
Moon	22103-07-01 10:19	G	9794195.80	9794195.93	9794196.06	0.2652	0.0752
Earth	22103-07-01 11:31	G	9794195.85	9794195.98	9794196.10	0.2652	0.0936 *
Jupiter	22105-08-30 16:04	G	9794987.01	9794987.17	9794987.33	0.0526	0.0019
Moon	22105-12-29 19:26	G	9795108.19	9795108.31	9795108.43	0.2684	0.0152
Earth	22105-12-29 20:09	G	9795108.22	9795108.34	9795108.46	0.2679	0.0288 *
Venus	22106-08-23 15:50	G	9795345.13	9795345.16	9795345.18	0.3693	0.3606
Mars	22107-09-09 15:07	G	9795727.07	9795727.13	9795727.19	0.1635	0.1444
Venus	22108-03-05 12:14	G	9795904.91	9795905.01	9795905.11	0.3678	0.2254
Jupiter	22111-01-19 01:12	G	9796954.46	9796954.55	9796954.65	0.0505	0.0366
Jupiter	22111-04-18 11:02	G	9797043.83	9797043.96	9797044.09	0.0501	0.0208
Saturn	22115-01-21 02:52	G	9798417.61	9798417.62	9798417.64	0.0287	0.0285
Saturn	22115-04-19 21:36	G	9798506.27	9798506.40	9798506.54	0.0287	0.0151
Saturn	22115-07-17 15:50	G	9798595.00	9798595.16	9798595.32	0.0287	0.0020
Saturn	22115-10-14 09:36	G	9798683.75	9798683.90	9798684.05	0.0286	0.0108
Saturn	22116-01-11 02:52	G	9798772.53	9798772.62	9798772.71	0.0286	0.0232
Mars	22116-04-10 18:57	G	9798863.23	9798863.29	9798863.36	0.1919	0.1652
Jupiter	22117-06-18 16:04	G	9799297.03	9799297.17	9799297.32	0.0525	0.0201
Moon	22119-01-01 16:33	G	9799859.11	9799859.19	9799859.27	0.2686	0.2055
Earth	22119-01-01 16:33	G	9799859.11	9799859.19	9799859.27	0.2679	0.1994 *
Mars	22119-01-05 15:36	G	9799863.03	9799863.15	9799863.26	0.1622	0.0892
Jupiter	22122-11-07 04:48	G	9801264.69	9801264.70	9801264.70	0.0505	0.0504
Jupiter	22123-02-04 14:09	G	9801353.95	9801354.09	9801354.23	0.0502	0.0065
Mars	22125-08-31 22:33	G	9802293.31	9802293.44	9802293.57	0.1913	0.0359

Earth 22125-12-25 08:52 G 9802408.87 9802408.87 9802408.88 0.2679 0.2667

Neptune 22128-01-23 04:48 G 9803167.65 9803167.70 9803167.78 0.0089 0.0081

Neptune 22128-04-20 07:26 G 9803255.73 9803255.81 9803255.92 0.0089 0.0072

Mars 22128-05-27 23:31 G 9803293.34 9803293.48 9803293.62 0.1626 0.0151

Neptune 22128-07-17 10:04 G 9803343.81 9803343.92 9803344.05 0.0089 0.0063

Neptune 22128-10-13 12:43 G 9803431.91 9803432.03 9803432.17 0.0089 0.0055

Neptune 22129-01-09 15:36 G 9803520.00 9803520.15 9803520.29 0.0089 0.0046

Jupiter 22129-04-06 16:04 G 9803607.07 9803607.17 9803607.29 0.0524 0.0383

Neptune 22129-04-07 17:45 G 9803608.10 9803608.24 9803608.41 0.0089 0.0037

Neptune 22129-07-04 20:24 G 9803696.20 9803696.35 9803696.52 0.0089 0.0029

Jupiter 22129-07-05 16:04 G 9803697.06 9803697.17 9803697.28 0.0528 0.0378

Neptune 22129-09-30 23:02 G 9803784.30 9803784.46 9803784.63 0.0089 0.0020

Neptune 22129-12-28 01:40 G 9803872.40 9803872.57 9803872.74 0.0089 0.0011

Saturn 22130-01-29 00:57 G 9803904.52 9803904.54 9803904.56 0.0272 0.0267

Neptune 22130-03-26 04:04 G 9803960.51 9803960.67 9803960.84 0.0089 0.0003

Saturn 22130-04-27 13:40 G 9803992.96 9803993.07 9803993.18 0.0272 0.0172

Neptune 22130-06-22 06:43 G 9804048.61 9804048.78 9804048.94 0.0089 0.0007

Saturn 22130-07-25 02:38 G 9804081.47 9804081.61 9804081.76 0.0272 0.0075

Neptune 22130-09-18 09:07 G 9804136.72 9804136.88 9804137.05 0.0089 0.0015

Saturn 22130-10-21 16:04 G 9804170.02 9804170.17 9804170.32 0.0273 0.0026

Neptune 22130-12-15 11:31 G 9804224.83 9804224.98 9804225.14 0.0089 0.0024

Saturn 22131-01-18 05:45 G 9804258.61 9804258.74 9804258.87 0.0273 0.0128

Neptune 22131-03-13 13:55 G 9804312.93 9804313.08 9804313.24 0.0089 0.0032

Saturn 22131-04-16 19:40 G 9804347.25 9804347.32 9804347.40 0.0273 0.0233

Neptune 22131-06-09 16:19 G 9804401.04 9804401.18 9804401.34 0.0089 0.0041

Neptune 22131-09-05 18:43 G 9804489.15 9804489.28 9804489.43 0.0089 0.0050

Neptune 22131-12-02 21:21 G 9804577.27 9804577.39 9804577.52 0.0089 0.0058

Neptune 22132-02-28 23:31 G 9804665.38 9804665.48 9804665.60 0.0089 0.0066

Neptune 22132-05-27 01:55 G 9804753.50 9804753.58 9804753.68 0.0089 0.0075

Neptune 22132-08-23 04:33 G 9804841.63 9804841.69 9804841.75 0.0089 0.0083

Jupiter 22134-11-23 17:31 G 9805664.09 9805664.23 9805664.37 0.0503 0.0077

Mars 22135-01-22 01:55 G 9805723.46 9805723.58 9805723.70 0.1907 0.0945

Uranus 22135-08-15 16:33 G 9805929.14 9805929.19 9805929.26 0.0145 0.0133

Uranus 22135-11-11 21:36 G 9806017.31 9806017.40 9806017.50 0.0145 0.0110

Uranus 22136-02-08 02:38 G 9806105.49 9806105.61 9806105.73 0.0145 0.0087

Uranus 22136-05-06 07:26 G 9806193.68 9806193.81 9806193.95 0.0145 0.0064

Moon 22136-06-28 15:50 G 9806247.03 9806247.16 9806247.29 0.2650 0.0804

Earth 22136-06-28 17:02 G 9806247.08 9806247.21 9806247.34 0.2652 0.0719 *

Uranus 22136-08-02 12:28 G 9806281.88 9806282.02 9806282.17 0.0145 0.0041

Uranus 22136-10-29 17:45 G 9806370.09 9806370.24 9806370.39 0.0145 0.0017

Uranus 22137-01-25 23:02 G 9806458.30 9806458.46 9806458.61 0.0145 0.0008

Uranus 22137-04-24 04:04 G 9806546.52 9806546.67 9806546.82 0.0145 0.0031

Uranus 22137-07-21 09:21 G 9806634.75 9806634.89 9806635.03 0.0145 0.0055

Uranus 22137-10-17 14:38 G 9806722.98 9806723.11 9806723.24 0.0145 0.0079

Mars 22137-10-18 07:26 G 9806723.68 9806723.81 9806723.93 0.1630 0.0596

Uranus 22138-01-13 19:40 G 9806811.23 9806811.32 9806811.44 0.0145 0.0104

Uranus 22138-04-12 01:12 G 9806899.49 9806899.55 9806899.63 0.0145 0.0128

Moon 22138-12-28 04:04 G 9807159.56 9807159.67 9807159.78 0.2681 0.1121

Earth 22138-12-28 05:02 G 9807159.60 9807159.71 9807159.82 0.2679 0.1037 *

Venus 22141-01-29 06:14 G 9807922.68 9807922.76 9807922.83 0.3691 0.2870

Jupiter 22141-04-23 15:50 G 9808007.01 9808007.16 9808007.30 0.0526 0.0191

Saturn 22144-09-05 21:21 G 9809238.27 9809238.39 9809238.51 0.0288 0.0195

Saturn 22144-12-03 15:50 G 9809327.00 9809327.16 9809327.32 0.0288 0.0061

Saturn 22145-03-02 09:50 G 9809415.75 9809415.91 9809416.06 0.0287 0.0068

Saturn 22145-05-30 03:07 G 9809504.52 9809504.63 9809504.75 0.0287 0.0194

Venus 22146-08-15 02:38 G 9809946.50 9809946.61 9809946.73 0.3692 0.1004

Jupiter 22146-09-11 20:09 G 9809974.22 9809974.34 9809974.47 0.0504 0.0225

Jupiter 22146-12-10 06:14 G 9810063.66 9810063.76 9810063.86 0.0501 0.0354

Mars 22147-03-10 15:21 G 9810154.06 9810154.14 9810154.21 0.1635 0.1338

Venus 22148-02-25 20:09 G 9810506.26 9810506.34 9810506.42 0.3679 0.2791

Moon 22149-07-01 15:50 G 9810998.04 9810998.16 9810998.28 0.2653 0.1208

Earth 22149-07-01 17:02 G 9810998.09 9810998.21 9810998.33 0.2652 0.1347 *

Moon 22151-12-31 00:43 G 9811910.41 9811910.53 9811910.65 0.2684 0.0570

Earth 22151-12-31 01:26 G 9811910.44 9811910.56 9811910.67 0.2679 0.0645 *

Venus 22152-02-28 22:48 G 9811970.34 9811970.45 9811970.57 0.3692 0.0798

Jupiter 22153-02-09 15:21 G 9812316.98 9812317.14 9812317.30 0.0525 0.0006

Venus 22153-09-10 16:48 G 9812530.08 9812530.20 9812530.32 0.3679 0.0979

Mars 22155-10-10 19:12 G 9813290.26 9813290.30 9813290.35 0.1919 0.1798

Venus 22157-09-13 18:43 G 9813994.19 9813994.28 9813994.37 0.3693 0.2499

Jupiter 22158-06-30 23:45 G 9814284.39 9814284.49 9814284.59 0.0505 0.0362

Mars 22158-07-06 15:50 G 9814290.05 9814290.16 9814290.27 0.1622 0.1006

Jupiter 22158-09-28 09:21 G 9814373.77 9814373.89 9814374.03 0.0502 0.0214

Venus 22159-03-27 13:55 G 9814553.96 9814554.08 9814554.20 0.3678 0.0920

Saturn 22159-09-14 16:19 G 9814725.08 9814725.18 9814725.28 0.0271 0.0195

Saturn 22159-12-12 05:16 G 9814813.59 9814813.72 9814813.86 0.0272 0.0098

Saturn 22160-03-09 18:43 G 9814902.13 9814902.28 9814902.42 0.0272 0.0007

Saturn 22160-06-06 08:09 G 9814990.70 9814990.84 9814990.98 0.0272 0.0103

Saturn 22160-09-02 22:04 G 9815079.32 9815079.42 9815079.52 0.0273 0.0207

Venus 22164-10-10 11:16 G 9816577.90 9816577.97 9816578.05 0.3678 0.2905

Jupiter 22164-11-28 14:38 G 9816626.96 9816627.11 9816627.26 0.0525 0.0193

Earth 22165-01-01 21:50 G 9816661.35 9816661.41 9816661.46 0.2679 0.2359

Moon 22165-01-01 21:50 G 9816661.36 9816661.41 9816661.47 0.2686 0.2346 *

Mars 22165-03-01 22:48 G 9816720.33 9816720.45 9816720.58 0.1913 0.0514

Mars 22167-11-26 23:31 G 9817720.35 9817720.48 9817720.62 0.1626 0.0262

Moon 22169-06-26 21:50 G 9818298.36 9818298.41 9818298.47 0.2647 0.2395

Earth 22169-06-26 22:33 G 9818298.38 9818298.44 9818298.49 0.2653 0.2409 *

Jupiter 22170-04-19 03:36 G 9818594.62 9818594.65 9818594.67 0.0506 0.0496

Jupiter 22170-07-17 12:57 G 9818683.90 9818684.04 9818684.18 0.0502 0.0075

Moon 22171-12-26 13:26 G 9819211.00 9819211.06 9819211.11 0.2675 0.2363

Earth 22171-12-26 14:09 G 9819211.03 9819211.09 9819211.14 0.2679 0.2336 *

Saturn 22174-01-23 20:24 G 9819970.26 9819970.35 9819970.44 0.0288 0.0241

Saturn 22174-04-22 14:52 G 9820058.97 9820059.12 9820059.28 0.0287 0.0107

Saturn 22174-07-20 09:07 G 9820147.72 9820147.88 9820148.04 0.0287 0.0024

Mars 22174-07-23 02:09 G 9820150.47 9820150.59 9820150.71 0.1907 0.0811

Saturn 22174-10-17 02:38 G 9820236.48 9820236.61 9820236.75 0.0287 0.0151

Saturn 22175-01-13 19:55 G 9820325.29 9820325.33 9820325.37 0.0286 0.0273

Jupiter 22176-09-16 14:24 G 9820936.99 9820937.10 9820937.21 0.0524 0.0378

Jupiter 22176-12-15 14:09 G 9821026.99 9821027.09 9821027.20 0.0528 0.0382

Mars 22177-04-18 07:26 G 9821150.68 9821150.81 9821150.94 0.1631 0.0491

Uranus 22177-09-05 18:43 G 9821291.20 9821291.28 9821291.36 0.0133 0.0117

Uranus 22177-12-02 23:31 G 9821379.37 9821379.48 9821379.59 0.0133 0.0097

Uranus 22178-03-01 04:19 G 9821467.55 9821467.68 9821467.82 0.0133 0.0077

Uranus 22178-05-28 09:07 G 9821555.74 9821555.88 9821556.04 0.0133 0.0057

Uranus 22178-08-24 14:09 G 9821643.93 9821644.09 9821644.24 0.0133 0.0037

Uranus 22178-11-20 18:57 G 9821732.13 9821732.29 9821732.45 0.0133 0.0018

Uranus 22179-02-16 23:31 G 9821820.32 9821820.48 9821820.65 0.0133 0.0004

Uranus 22179-05-16 04:19 G 9821908.52 9821908.68 9821908.84 0.0133 0.0021

Uranus 22179-08-12 08:52 G 9821996.72 9821996.87 9821997.03 0.0133 0.0040

Uranus 22179-11-08 13:26 G 9822084.92 9822085.06 9822085.21 0.0133 0.0059

Uranus 22180-02-04 18:00 G 9822173.13 9822173.25 9822173.38 0.0133 0.0078

Uranus 22180-05-02 22:33 G 9822261.34 9822261.44 9822261.55 0.0133 0.0096

Uranus 22180-07-30 03:07 G 9822349.56 9822349.63 9822349.71 0.0133 0.0115

Uranus 22180-10-26 07:26 G 9822437.81 9822437.81 9822437.82 0.0133 0.0133

Jupiter 22182-05-05 16:19 G 9822994.04 9822994.18 9822994.32 0.0503 0.0065

Moon 22182-06-29 21:36 G 9823049.27 9823049.40 9823049.54 0.2650 0.0501

Earth 22182-06-29 22:48 G 9823049.31 9823049.45 9823049.59 0.2653 0.0280 *

Moon 22184-12-28 09:21 G 9823961.77 9823961.89 9823962.00 0.2681 0.0872

Earth 22184-12-28 10:04 G 9823961.81 9823961.92 9823962.04 0.2679 0.0704 *

Mars 22186-09-08 15:36 G 9824581.06 9824581.15 9824581.24 0.1635 0.1225

Jupiter 22188-10-03 14:38 G 9825336.97 9825337.11 9825337.26 0.0527 0.0205

Saturn 22189-01-31 16:33 G 9825457.12 9825457.19 9825457.26 0.0272 0.0235

Saturn 22189-04-30 05:16 G 9825545.60 9825545.72 9825545.85 0.0272 0.0140

Saturn 22189-07-27 18:28 G 9825634.13 9825634.27 9825634.42 0.0272 0.0042

Saturn 22189-10-24 07:55 G 9825722.69 9825722.83 9825722.98 0.0272 0.0059

Saturn 22190-01-20 21:36 G 9825811.28 9825811.40 9825811.52 0.0273 0.0162

Saturn 22190-04-19 11:45 G 9825899.96 9825899.99 9825900.01 0.0273 0.0267

Jupiter 22194-02-21 19:40 G 9827304.19 9827304.32 9827304.45 0.0503 0.0205

Jupiter 22194-05-22 05:31 G 9827393.64 9827393.73 9827393.83 0.0500 0.0372

Moon 22195-07-02 21:36 G 9827800.30 9827800.40 9827800.51 0.2655 0.1675

Earth 22195-07-02 22:48 G 9827800.35 9827800.45 9827800.55 0.2652 0.1765 *

Venus 22197-09-05 05:02 G 9828595.61 9828595.71 9828595.80 0.3691 0.2264

Moon 22197-12-31 06:00 G 9828712.64 9828712.75 9828712.86 0.2684 0.0942

Earth 22197-12-31 06:28 G 9828712.66 9828712.77 9828712.88 0.2679 0.0986 *

Mars 22198-01-04 16:04 G 9828717.07 9828717.17 9828717.27 0.1622 0.1125

Jupiter 22200-07-23 14:24 G 9829646.94 9829647.10 9829647.26 0.0525 0.0024

Venus 22203-03-23 01:26 G 9830619.44 9830619.56 9830619.68 0.3692 0.0417

Saturn 22203-09-10 14:24 G 9830790.96 9830791.10 9830791.24 0.0288 0.0153

Saturn 22203-12-08 08:38 G 9830879.70 9830879.86 9830880.02 0.0288 0.0021

Saturn 22204-03-06 02:24 G 9830968.46 9830968.60 9830968.75 0.0287 0.0110

Saturn 22204-06-02 19:40 G 9831057.24 9831057.32 9831057.42 0.0287 0.0234

Mars 22204-08-31 23:16 G 9831147.34 9831147.47 9831147.60 0.1913 0.0660

Venus 22204-10-02 18:57 G 9831179.19 9831179.29 9831179.38 0.3679 0.2225

Jupiter 22205-12-11 22:33 G 9831614.34 9831614.44 9831614.54 0.0505 0.0355

Jupiter 22206-03-11 08:09 G 9831703.71 9831703.84 9831703.97 0.0502 0.0221

Mars 22207-05-28 23:45 G 9832147.36 9832147.49 9832147.63 0.1626 0.0374

Venus 22208-10-05 21:36 G 9832643.29 9832643.40 9832643.51 0.3693 0.1359

Neptune 22209-01-28 18:00 G 9832758.21 9832758.25 9832758.30 0.0088 0.0083

Neptune 22209-04-26 19:40 G 9832846.25 9832846.32 9832846.40 0.0088 0.0075

Neptune 22209-07-23 21:21 G 9832934.31 9832934.39 9832934.49 0.0088 0.0068

Neptune 22209-10-19 23:02 G 9833022.37 9833022.46 9833022.58 0.0088 0.0061

Neptune 22210-01-16 00:57 G 9833110.43 9833110.54 9833110.66 0.0088 0.0054

Neptune 22210-04-14 02:38 G 9833198.49 9833198.61 9833198.75 0.0088 0.0047

Venus 22210-04-18 15:36 G 9833203.03 9833203.15 9833203.28 0.3679 0.0400

Neptune 22210-07-11 04:19 G 9833286.56 9833286.68 9833286.83 0.0088 0.0040

Neptune 22210-10-07 06:28 G 9833374.63 9833374.77 9833374.91 0.0088 0.0032

Neptune 22211-01-03 08:09 G 9833462.70 9833462.84 9833462.98 0.0088 0.0024

Pluto 22211-03-22 02:52 G 9833540.61 9833540.62 9833540.66 0.0070 0.0069

Neptune 22211-04-01 09:50 G 9833550.77 9833550.91 9833551.06 0.0088 0.0017

Pluto 22211-06-18 03:50 G 9833628.59 9833628.66 9833628.73 0.0070 0.0059

Neptune 22211-06-28 11:45 G 9833638.84 9833638.99 9833639.14 0.0088 0.0009

Pluto 22211-09-14 04:19 G 9833716.60 9833716.68 9833716.78 0.0070 0.0050

Neptune 22211-09-24 13:40 G 9833726.92 9833727.07 9833727.22 0.0088 0.0002

Pluto 22211-12-11 04:48 G 9833804.60 9833804.70 9833804.82 0.0070 0.0041

Neptune 22211-12-21 15:21 G 9833814.99 9833815.14 9833815.29 0.0088 0.0006

Pluto 22212-03-08 05:31 G 9833892.62 9833892.73 9833892.85 0.0070 0.0032

Neptune 22212-03-18 17:16 G 9833903.07 9833903.22 9833903.37 0.0088 0.0013

Jupiter 22212-05-11 14:09 G 9833956.93 9833957.09 9833957.24 0.0524 0.0171

Pluto 22212-06-04 06:00 G 9833980.64 9833980.75 9833980.89 0.0070 0.0023

Neptune 22212-06-14 19:12 G 9833991.15 9833991.30 9833991.44 0.0088 0.0021

Pluto 22212-08-31 06:43 G 9834068.66 9834068.78 9834068.92 0.0071 0.0013

Neptune 22212-09-10 20:52 G 9834079.23 9834079.37 9834079.52 0.0088 0.0028

Pluto 22212-11-27 07:26 G 9834156.68 9834156.81 9834156.94 0.0071 0.0003

Neptune 22212-12-07 22:33 G 9834167.31 9834167.44 9834167.59 0.0088 0.0036

Pluto 22213-02-23 08:09 G 9834244.71 9834244.84 9834244.97 0.0071 0.0007

Neptune 22213-03-06 00:28 G 9834255.40 9834255.52 9834255.66 0.0088 0.0044

Pluto 22213-05-22 08:38 G 9834332.74 9834332.86 9834332.99 0.0071 0.0016

Neptune 22213-06-02 02:24 G 9834343.49 9834343.60 9834343.73 0.0088 0.0051

Pluto 22213-08-18 09:21 G 9834420.77 9834420.89 9834421.01 0.0071 0.0026

Neptune 22213-08-29 04:19 G 9834431.57 9834431.68 9834431.80 0.0088 0.0059

Pluto 22213-11-14 09:50 G 9834508.80 9834508.91 9834509.03 0.0071 0.0036

Neptune 22213-11-25 06:14 G 9834519.67 9834519.76 9834519.86 0.0088 0.0066

Mars 22214-01-22 02:24 G 9834577.48 9834577.60 9834577.73 0.1907 0.0666

Pluto 22214-02-10 10:19 G 9834596.84 9834596.93 9834597.04 0.0071 0.0046

Neptune 22214-02-21 07:55 G 9834607.76 9834607.83 9834607.92 0.0088 0.0074

Venus 22214-04-21 17:16 G 9834667.15 9834667.22 9834667.28 0.3693 0.3040

Pluto 22214-05-09 10:48 G 9834684.89 9834684.95 9834685.05 0.0071 0.0057

Neptune 22214-05-20 10:04 G 9834695.87 9834695.92 9834695.98 0.0088 0.0082

Pluto 22214-08-05 11:31 G 9834772.95 9834772.98 9834773.04 0.0071 0.0067

Moon 22215-06-29 03:21 G 9835100.56 9835100.64 9835100.72 0.2648 0.2143

Earth 22215-06-29 04:19 G 9835100.58 9835100.68 9835100.77 0.2653 0.1969 *

Venus 22215-11-02 12:43 G 9835226.92 9835227.03 9835227.15 0.3678 0.1547

Mars 22216-10-18 07:40 G 9835577.69 9835577.82 9835577.95 0.1630 0.0381

Jupiter 22217-09-30 01:55 G 9835924.56 9835924.58 9835924.61 0.0506 0.0493

Moon 22217-12-27 18:28 G 9836013.20 9836013.27 9836013.34 0.2677 0.2175

Earth 22217-12-27 19:12 G 9836013.22 9836013.30 9836013.38 0.2679 0.1997 *

Jupiter 22217-12-28 11:31 G 9836013.84 9836013.98 9836014.12 0.0502 0.0080

Saturn 22218-06-21 19:26 G 9836189.27 9836189.31 9836189.35 0.0271 0.0256

Saturn 22218-09-18 08:09 G 9836277.73 9836277.84 9836277.96 0.0271 0.0162

Saturn 22218-12-15 21:21 G 9836366.24 9836366.39 9836366.53 0.0271 0.0065

Saturn 22219-03-14 10:33 G 9836454.79 9836454.94 9836455.09 0.0272 0.0036

Saturn 22219-06-11 00:14 G 9836543.38 9836543.51 9836543.64 0.0272 0.0138

Uranus 22219-09-05 23:31 G 9836630.41 9836630.48 9836630.54 0.0145 0.0129

Saturn 22219-09-07 14:09 G 9836632.02 9836632.09 9836632.16 0.0272 0.0242

Uranus 22219-12-03 04:04 G 9836718.58 9836718.67 9836718.78 0.0145 0.0107

Uranus 22220-02-29 09:07 G 9836806.77 9836806.88 9836807.01 0.0145 0.0084

Uranus 22220-05-27 14:24 G 9836894.96 9836895.10 9836895.24 0.0145 0.0060

Uranus 22220-08-23 19:26 G 9836983.16 9836983.31 9836983.45 0.0145 0.0037

Uranus 22220-11-20 00:28 G 9837071.37 9837071.52 9837071.67 0.0145 0.0013

Uranus 22221-02-16 05:31 G 9837159.58 9837159.73 9837159.89 0.0145 0.0011

Uranus 22221-05-15 10:48 G 9837247.80 9837247.95 9837248.10 0.0145 0.0034

Venus	22221-05-18 10:33 G	9837250.91	9837250.94	9837250.96	0.3677	0.3569	
Uranus	22221-08-11 16:04 G	9837336.03	9837336.17	9837336.31	0.0145	0.0058	
Uranus	22221-11-07 21:07 G	9837424.26	9837424.38	9837424.51	0.0145	0.0083	
Uranus	22222-02-04 02:24 G	9837512.50	9837512.60	9837512.71	0.0145	0.0107	
Uranus	22222-05-03 07:40 G	9837600.77	9837600.82	9837600.89	0.0145	0.0132	
Jupiter	22224-02-28 12:57 G	9838266.93	9838267.04	9838267.16	0.0523	0.0369	
Jupiter	22224-05-28 12:43 G	9838356.93	9838357.03	9838357.14	0.0527	0.0389	
Mars	22226-03-10 15:36 G	9839008.06	9839008.15	9839008.25	0.1635	0.1123	
Moon	22228-07-01 03:21 G	9839851.50	9839851.64	9839851.78	0.2650	0.0079	
Earth	22228-07-01 04:33 G	9839851.55	9839851.69	9839851.82	0.2653	0.0152	*
Jupiter	22229-10-16 15:07 G	9840323.99	9840324.13	9840324.27	0.0503	0.0058	
Moon	22230-12-30 14:24 G	9840763.98	9840764.10	9840764.22	0.2681	0.0417	
Earth	22230-12-30 15:21 G	9840764.02	9840764.14	9840764.26	0.2679	0.0359	*
Saturn	22233-01-27 13:26 G	9841522.95	9841523.06	9841523.18	0.0288	0.0198	
Saturn	22233-04-26 08:09 G	9841611.68	9841611.84	9841611.99	0.0287	0.0065	
Saturn	22233-07-24 01:55 G	9841700.43	9841700.58	9841700.74	0.0287	0.0066	
Saturn	22233-10-20 19:26 G	9841789.20	9841789.31	9841789.43	0.0287	0.0192	
Jupiter	22236-03-16 12:57 G	9842666.90	9842667.04	9842667.19	0.0526	0.0209	
Mars	22237-07-06 16:19 G	9843144.09	9843144.18	9843144.27	0.1621	0.1233	
Moon	22241-07-04 03:21 G	9844602.56	9844602.64	9844602.73	0.2657	0.2006	
Earth	22241-07-04 04:33 G	9844602.61	9844602.69	9844602.76	0.2653	0.2187	*
Jupiter	22241-08-04 18:28 G	9844634.14	9844634.27	9844634.40	0.0504	0.0196	
Jupiter	22241-11-02 04:19 G	9844723.60	9844723.68	9844723.78	0.0500	0.0383	
Moon	22244-01-02 11:16 G	9845514.87	9845514.97	9845515.08	0.2685	0.1264	
Earth	22244-01-02 11:31 G	9845514.88	9845514.98	9845515.09	0.2679	0.1337	*
Mars	22244-03-01 23:16 G	9845574.35	9845574.47	9845574.59	0.1914	0.0785	
Mars	22246-11-27 00:00 G	9846574.37	9846574.50	9846574.64	0.1626	0.0484	
Jupiter	22248-01-03 13:26 G	9846976.90	9846977.06	9846977.22	0.0526	0.0033	
Saturn	22248-02-05 08:24 G	9847009.76	9847009.85	9847009.95	0.0271	0.0202	
Saturn	22248-05-03 21:21 G	9847098.26	9847098.39	9847098.53	0.0272	0.0105	

Saturn	22248-07-31 10:33 G	9847186.79	9847186.94	9847187.09	0.0272	0.0007
Venus	22248-09-27 07:12 G	9847244.77	9847244.80	9847244.82	0.3691	0.3564
Saturn	22248-10-28 00:00 G	9847275.36	9847275.50	9847275.64	0.0272	0.0095
Saturn	22249-01-24 13:40 G	9847363.97	9847364.07	9847364.18	0.0273	0.0198
Jupiter	22253-05-23 21:50 G	9848944.31	9848944.41	9848944.52	0.0504	0.0335
Mars	22253-07-23 02:52 G	9849004.49	9849004.62	9849004.75	0.1908	0.0507
Jupiter	22253-08-21 07:40 G	9849033.69	9849033.82	9849033.94	0.0501	0.0240
Venus	22254-04-13 03:50 G	9849268.55	9849268.66	9849268.76	0.3692	0.1673
Venus	22255-10-24 21:07 G	9849828.34	9849828.38	9849828.42	0.3679	0.3417
Mars	22256-04-18 07:55 G	9850004.70	9850004.83	9850004.97	0.1630	0.0267
Jupiter	22259-10-22 13:12 G	9851286.89	9851287.05	9851287.20	0.0524	0.0154
Venus	22259-10-28 00:14 G	9851292.39	9851292.51	9851292.62	0.3692	0.0222
Venus	22261-05-09 17:45 G	9851852.13	9851852.24	9851852.35	0.3679	0.1636
Moon	22261-06-29 09:07 G	9851902.77	9851902.88	9851902.99	0.2648	0.1581
Earth	22261-06-29 09:50 G	9851902.80	9851902.91	9851903.03	0.2653	0.1536 *
Uranus	22261-06-30 20:24 G	9851904.35	9851904.35	9851904.36	0.0133	0.0133
Uranus	22261-09-27 01:12 G	9851992.47	9851992.55	9851992.64	0.0133	0.0113
Uranus	22261-12-24 06:00 G	9852080.65	9852080.75	9852080.88	0.0133	0.0093
Uranus	22262-03-22 11:02 G	9852168.83	9852168.96	9852169.10	0.0133	0.0073
Saturn	22262-06-16 12:14 G	9852254.94	9852255.01	9852255.10	0.0288	0.0248
Uranus	22262-06-18 15:50 G	9852257.02	9852257.16	9852257.32	0.0133	0.0054
Saturn	22262-09-13 07:12 G	9852343.65	9852343.80	9852343.95	0.0288	0.0112
Uranus	22262-09-14 20:38 G	9852345.21	9852345.36	9852345.52	0.0133	0.0034
Saturn	22262-12-11 01:26 G	9852432.40	9852432.56	9852432.72	0.0288	0.0020
Uranus	22262-12-12 01:26 G	9852433.41	9852433.56	9852433.73	0.0133	0.0015
Mars	22262-12-13 05:45 G	9852434.72	9852434.74	9852434.77	0.1900	0.1847
Saturn	22263-03-09 18:57 G	9852521.16	9852521.29	9852521.43	0.0288	0.0149
Uranus	22263-03-10 06:14 G	9852521.60	9852521.76	9852521.92	0.0133	0.0005
Uranus	22263-06-06 11:02 G	9852609.80	9852609.96	9852610.12	0.0133	0.0024
Saturn	22263-06-06 12:14 G	9852609.97	9852610.01	9852610.07	0.0287	0.0272 *

Uranus 22263-09-02 15:36 G 9852698.00 9852698.15 9852698.30 0.0133 0.0043

Uranus 22263-11-29 20:09 G 9852786.20 9852786.34 9852786.48 0.0133 0.0062

Moon 22263-12-28 23:31 G 9852815.39 9852815.48 9852815.57 0.2678 0.1716

Earth 22263-12-29 00:14 G 9852815.42 9852815.51 9852815.61 0.2679 0.1662 *

Uranus 22264-02-26 00:43 G 9852874.41 9852874.53 9852874.66 0.0133 0.0081

Uranus 22264-05-24 05:16 G 9852962.62 9852962.72 9852962.83 0.0133 0.0100

Uranus 22264-08-20 09:36 G 9853050.84 9853050.90 9853050.98 0.0133 0.0118

Jupiter 22265-03-12 00:43 G 9853254.50 9853254.53 9853254.57 0.0506 0.0485

Venus 22265-05-12 20:09 G 9853316.23 9853316.34 9853316.44 0.3693 0.1912

Jupiter 22265-06-09 10:04 G 9853343.78 9853343.92 9853344.06 0.0502 0.0088

Mars 22265-09-08 15:50 G 9853435.06 9853435.16 9853435.27 0.1635 0.1013

Venus 22266-11-23 14:38 G 9853875.99 9853876.11 9853876.23 0.3678 0.0233

Venus 22270-11-26 15:50 G 9855340.13 9855340.16 9855340.18 0.3693 0.3584

Jupiter 22271-08-10 12:28 G 9855596.90 9855597.02 9855597.15 0.0523 0.0345

Jupiter 22271-11-08 12:14 G 9855686.92 9855687.01 9855687.11 0.0527 0.0411

Venus 22272-06-08 12:00 G 9855899.90 9855900.00 9855900.10 0.3678 0.2190

Moon 22274-07-02 09:07 G 9856653.74 9856653.88 9856654.02 0.2652 0.0346

Earth 22274-07-02 10:19 G 9856653.79 9856653.93 9856654.06 0.2653 0.0578 *

Moon 22276-12-30 19:40 G 9857566.20 9857566.32 9857566.44 0.2682 0.0184

Earth 22276-12-30 20:24 G 9857566.23 9857566.35 9857566.47 0.2679 0.0069 *

Mars 22277-01-04 16:33 G 9857571.11 9857571.19 9857571.26 0.1621 0.1346

Jupiter 22277-03-28 13:26 G 9857653.92 9857654.06 9857654.20 0.0503 0.0055

Saturn 22277-06-24 11:16 G 9857741.89 9857741.97 9857742.06 0.0271 0.0222

Saturn 22277-09-21 00:14 G 9857830.38 9857830.51 9857830.64 0.0271 0.0127

Saturn 22277-12-18 13:12 G 9857918.91 9857919.05 9857919.20 0.0271 0.0030

Saturn 22278-03-17 02:38 G 9858007.47 9858007.61 9858007.76 0.0272 0.0072

Saturn 22278-06-13 16:19 G 9858096.07 9858096.18 9858096.30 0.0272 0.0175

Jupiter 22283-08-27 11:31 G 9859996.84 9859996.98 9859997.13 0.0526 0.0218

Mars 22283-08-31 23:45 G 9860001.38 9860001.49 9860001.61 0.1914 0.0947

Mars 22286-05-28 00:14 G 9861001.38 9861001.51 9861001.64 0.1626 0.0594

Moon 22287-07-05 09:07 G 9861404.85 9861404.88 9861404.91 0.2657 0.2549

Earth 22287-07-05 10:04 G 9861404.90 9861404.92 9861404.94 0.2653 0.2596 *

Jupiter 22289-01-14 17:02 G 9861964.08 9861964.21 9861964.34 0.0504 0.0191

Jupiter 22289-04-14 03:07 G 9862053.54 9862053.63 9862053.72 0.0501 0.0389

Moon 22290-01-02 16:33 G 9862317.10 9862317.19 9862317.28 0.2686 0.1718

Earth 22290-01-02 16:48 G 9862317.11 9862317.20 9862317.29 0.2679 0.1683 *

Saturn 22292-01-31 06:57 G 9863075.65 9863075.79 9863075.93 0.0288 0.0153

Saturn 22292-04-29 01:26 G 9863164.40 9863164.56 9863164.72 0.0288 0.0020

Neptune 22292-07-24 01:40 G 9863250.54 9863250.57 9863250.64 0.0089 0.0085

Saturn 22292-07-26 19:12 G 9863253.16 9863253.30 9863253.45 0.0287 0.0109

Neptune 22292-10-20 04:19 G 9863338.61 9863338.68 9863338.78 0.0089 0.0076

Saturn 22292-10-23 12:28 G 9863341.94 9863342.02 9863342.12 0.0287 0.0234

Neptune 22293-01-16 06:57 G 9863426.69 9863426.79 9863426.91 0.0089 0.0067

Mars 22293-01-21 03:07 G 9863431.49 9863431.63 9863431.76 0.1907 0.0381

Neptune 22293-04-14 09:36 G 9863514.79 9863514.90 9863515.04 0.0089 0.0059

Neptune 22293-07-11 12:28 G 9863602.88 9863603.02 9863603.16 0.0089 0.0049

Neptune 22293-10-07 15:07 G 9863690.98 9863691.13 9863691.28 0.0089 0.0041

Neptune 22294-01-03 17:31 G 9863779.08 9863779.23 9863779.39 0.0089 0.0032

Neptune 22294-04-01 20:09 G 9863867.18 9863867.34 9863867.50 0.0089 0.0023

Neptune 22294-06-28 22:48 G 9863955.28 9863955.45 9863955.61 0.0089 0.0015

Neptune 22294-09-25 01:12 G 9864043.39 9864043.55 9864043.72 0.0089 0.0006

Neptune 22294-12-22 03:50 G 9864131.49 9864131.66 9864131.82 0.0089 0.0004

Neptune 22295-03-20 06:14 G 9864219.60 9864219.76 9864219.93 0.0089 0.0012

Jupiter 22295-06-15 11:31 G 9864306.82 9864306.98 9864307.14 0.0525 0.0035

Neptune 22295-06-16 08:38 G 9864307.70 9864307.86 9864308.03 0.0089 0.0020

Neptune 22295-09-12 11:02 G 9864395.81 9864395.96 9864396.12 0.0089 0.0029

Mars 22295-10-18 08:09 G 9864431.70 9864431.84 9864431.98 0.1630 0.0159

Neptune 22295-12-09 13:26 G 9864483.92 9864484.06 9864484.22 0.0089 0.0038

Neptune 22296-03-06 15:50 G 9864572.03 9864572.16 9864572.31 0.0089 0.0046

Neptune 22296-06-02 18:14 G 9864660.14 9864660.26 9864660.40 0.0089 0.0055

Neptune 22296-08-29 20:52 G 9864748.26 9864748.37 9864748.49 0.0089 0.0063

Neptune 22296-11-25 23:02 G 9864836.38 9864836.46 9864836.57 0.0089 0.0072

Neptune 22297-02-22 01:40 G 9864924.50 9864924.57 9864924.65 0.0089 0.0079

Pluto 22297-05-01 17:45 G 9864993.16 9864993.24 9864993.36 0.0074 0.0064

Neptune 22297-05-21 04:04 G 9865012.65 9865012.67 9865012.70 0.0089 0.0088

Pluto 22297-07-28 20:38 G 9865081.22 9865081.36 9865081.52 0.0074 0.0047

Pluto 22297-10-24 23:02 G 9865169.29 9865169.46 9865169.65 0.0073 0.0031

Pluto 22298-01-21 01:40 G 9865257.38 9865257.57 9865257.77 0.0073 0.0014

Pluto 22298-04-19 04:19 G 9865345.48 9865345.68 9865345.88 0.0073 0.0002

Pluto 22298-07-16 06:28 G 9865433.59 9865433.77 9865433.97 0.0073 0.0018

Pluto 22298-10-12 08:52 G 9865521.71 9865521.87 9865522.06 0.0073 0.0034

Pluto 22299-01-08 11:31 G 9865609.84 9865609.98 9865610.13 0.0073 0.0049

Pluto 22299-04-06 13:40 G 9865698.00 9865698.07 9865698.17 0.0073 0.0065

Jupiter 22300-11-03 20:38 G 9866274.26 9866274.36 9866274.47 0.0505 0.0327

Jupiter 22301-02-01 06:14 G 9866363.64 9866363.76 9866363.89 0.0501 0.0248

Mars 22302-06-14 06:00 G 9866861.70 9866861.75 9866861.81 0.1901 0.1708

Uranus 22303-09-27 06:14 G 9867331.69 9867331.76 9867331.84 0.0145 0.0125

Uranus 22303-12-24 11:02 G 9867419.86 9867419.96 9867420.07 0.0145 0.0103

Uranus 22304-03-21 16:04 G 9867508.05 9867508.17 9867508.30 0.0145 0.0080

Uranus 22304-06-17 21:07 G 9867596.24 9867596.38 9867596.52 0.0145 0.0057

Uranus 22304-09-14 02:09 G 9867684.44 9867684.59 9867684.74 0.0145 0.0033

Uranus 22304-12-11 07:12 G 9867772.65 9867772.80 9867772.96 0.0145 0.0010

Uranus 22305-03-09 12:28 G 9867860.87 9867861.02 9867861.17 0.0145 0.0014

Mars 22305-03-10 16:04 G 9867862.06 9867862.17 9867862.29 0.1635 0.0902

Venus 22305-05-05 06:00 G 9867917.68 9867917.75 9867917.82 0.3691 0.2959

Uranus 22305-06-05 17:31 G 9867949.09 9867949.23 9867949.38 0.0145 0.0038

Uranus 22305-09-01 22:48 G 9868037.31 9868037.45 9868037.59 0.0145 0.0062

Uranus 22305-11-29 03:50 G 9868125.55 9868125.66 9868125.79 0.0145 0.0087

Uranus 22306-02-25 09:21 G 9868213.79 9868213.89 9868213.99 0.0145 0.0111

Uranus 22306-05-24 14:24 G 9868302.06 9868302.10 9868302.17 0.0145 0.0136

Saturn 22306-11-12 11:45 G 9868473.96 9868473.99 9868474.03 0.0271 0.0260

Saturn 22307-02-09 00:28 G 9868562.41 9868562.52 9868562.64 0.0271 0.0166

Jupiter 22307-04-04 11:45 G 9868616.83 9868616.99 9868617.14 0.0525 0.0147

Saturn 22307-05-08 13:26 G 9868650.92 9868651.06 9868651.21 0.0272 0.0069

Moon 22307-07-01 14:38 G 9868704.99 9868705.11 9868705.24 0.2648 0.1278

Earth 22307-07-01 15:36 G 9868705.03 9868705.15 9868705.28 0.2653 0.1099 *

Saturn 22307-08-05 02:52 G 9868739.47 9868739.62 9868739.76 0.0272 0.0031

Saturn 22307-11-01 16:19 G 9868828.05 9868828.18 9868828.31 0.0272 0.0132

Saturn 22308-01-29 06:14 G 9868916.69 9868916.76 9868916.83 0.0272 0.0236

Moon 22309-12-30 04:33 G 9869617.59 9869617.69 9869617.79 0.2678 0.1508

Earth 22309-12-30 05:31 G 9869617.62 9869617.73 9869617.83 0.2679 0.1325 *

Venus 22310-11-19 02:38 G 9869941.49 9869941.61 9869941.72 0.3692 0.1075

Venus 22312-05-31 19:55 G 9870501.26 9870501.33 9870501.41 0.3679 0.2850

Jupiter 22312-08-23 00:14 G 9870584.46 9870584.51 9870584.56 0.0505 0.0466

Jupiter 22312-11-20 09:36 G 9870673.76 9870673.90 9870674.04 0.0502 0.0106

Venus 22316-06-03 22:48 G 9871965.33 9871965.45 9871965.56 0.3692 0.0738

Mars 22316-07-06 16:48 G 9871998.15 9871998.20 9871998.26 0.1621 0.1466

Venus 22317-12-15 16:33 G 9872525.07 9872525.19 9872525.31 0.3679 0.1042

Jupiter 22319-01-21 11:31 G 9872926.85 9872926.98 9872927.11 0.0523 0.0330

Jupiter 22319-04-21 11:16 G 9873016.88 9873016.97 9873017.06 0.0527 0.0426

Moon 22320-07-03 14:38 G 9873455.99 9873456.11 9873456.24 0.2654 0.0924

Earth 22320-07-03 15:50 G 9873456.04 9873456.16 9873456.29 0.2653 0.0992 *

Saturn 22321-06-20 05:31 G 9873807.62 9873807.73 9873807.85 0.0288 0.0204

Saturn 22321-09-17 00:14 G 9873896.35 9873896.51 9873896.66 0.0288 0.0070

Saturn 22321-12-14 18:14 G 9873985.11 9873985.26 9873985.42 0.0288 0.0062

Venus 22321-12-18 18:43 G 9873989.19 9873989.28 9873989.36 0.3693 0.2466

Saturn 22322-03-13 12:00 G 9874073.88 9874074.00 9874074.12 0.0288 0.0189

Moon 22323-01-02 00:57 G 9874368.42 9874368.54 9874368.66 0.2683 0.0318

Earth 22323-01-02 01:40 G 9874368.45 9874368.57 9874368.69 0.2679 0.0343 *

Mars 22323-03-03 00:00 G 9874428.39 9874428.50 9874428.61 0.1914 0.1086

Venus 22323-07-01 13:40 G 9874548.95 9874549.07 9874549.19 0.3678 0.0863

Jupiter 22324-09-08 12:00 G 9874983.86 9874984.00 9874984.15 0.0503 0.0051

Mars 22325-11-27 00:28 G 9875428.40 9875428.52 9875428.65 0.1625 0.0706

Venus 22329-01-14 11:02 G 9876572.88 9876572.96 9876573.04 0.3677 0.2843

Jupiter 22330-11-09 10:48 G 9877236.95 9877236.95 9877236.96 0.0522 0.0521

Jupiter 22331-02-07 11:02 G 9877326.82 9877326.96 9877327.10 0.0526 0.0240

Mars 22332-07-23 03:21 G 9877858.51 9877858.64 9877858.78 0.1908 0.0231

Mars 22335-04-19 08:24 G 9878858.71 9878858.85 9878858.98 0.1630 0.0062

Moon 22336-01-04 21:50 G 9879119.33 9879119.41 9879119.49 0.2686 0.1966

Earth 22336-01-04 22:04 G 9879119.34 9879119.42 9879119.49 0.2679 0.2043 *

Jupiter 22336-06-27 15:21 G 9879294.01 9879294.14 9879294.27 0.0504 0.0190

Saturn 22336-06-28 03:36 G 9879294.55 9879294.65 9879294.76 0.0271 0.0186

Saturn 22336-09-24 16:33 G 9879383.05 9879383.19 9879383.33 0.0271 0.0089

Jupiter 22336-09-25 01:26 G 9879383.47 9879383.56 9879383.65 0.0501 0.0390

Saturn 22336-12-22 05:45 G 9879471.59 9879471.74 9879471.89 0.0271 0.0010

Saturn 22337-03-20 19:12 G 9879560.17 9879560.30 9879560.44 0.0272 0.0111

Saturn 22337-06-17 09:07 G 9879648.78 9879648.88 9879648.97 0.0272 0.0214

Mars 22341-12-13 06:28 G 9881288.70 9881288.77 9881288.85 0.1901 0.1554

Jupiter 22342-11-26 10:04 G 9881636.76 9881636.92 9881637.08 0.0525 0.0042

Earth 22342-12-28 14:38 G 9881669.08 9881669.11 9881669.13 0.2679 0.2603

Mars 22344-09-08 16:19 G 9882289.06 9882289.18 9882289.30 0.1635 0.0795

Uranus 22345-07-22 02:52 G 9882605.60 9882605.62 9882605.67 0.0133 0.0129

Uranus 22345-10-18 08:09 G 9882693.75 9882693.84 9882693.94 0.0133 0.0109

Uranus 22346-01-14 12:57 G 9882781.93 9882782.04 9882782.17 0.0133 0.0089

Uranus 22346-04-12 17:45 G 9882870.11 9882870.24 9882870.39 0.0133 0.0069

Uranus 22346-07-09 22:48 G 9882958.30 9882958.45 9882958.60 0.0133 0.0049

Uranus 22346-10-06 03:36 G 9883046.49 9883046.65 9883046.81 0.0133 0.0030

Uranus 22347-01-02 08:24 G 9883134.69 9883134.85 9883135.01 0.0133 0.0010

Uranus 22347-03-31 13:12 G 9883222.89 9883223.05 9883223.21 0.0133 0.0010

Uranus 22347-06-27 17:45 G 9883311.08 9883311.24 9883311.40 0.0133 0.0028

Uranus 22347-09-23 22:19 G 9883399.29 9883399.43 9883399.58 0.0133 0.0048

Uranus 22347-12-21 02:52 G 9883487.49 9883487.62 9883487.76 0.0133 0.0067

Uranus 22348-03-18 07:26 G 9883575.70 9883575.81 9883575.94 0.0133 0.0085

Jupiter 22348-04-15 19:12 G 9883604.19 9883604.30 9883604.40 0.0505 0.0325

Uranus 22348-06-14 12:14 G 9883663.91 9883664.01 9883664.10 0.0133 0.0104

Jupiter 22348-07-14 04:48 G 9883693.58 9883693.70 9883693.83 0.0502 0.0251

Uranus 22348-09-10 16:19 G 9883752.13 9883752.18 9883752.25 0.0133 0.0123

Saturn 22350-11-07 05:45 G 9884539.66 9884539.74 9884539.83 0.0288 0.0242

Saturn 22351-02-04 00:28 G 9884628.37 9884628.52 9884628.67 0.0288 0.0107

Saturn 22351-05-03 18:43 G 9884717.12 9884717.28 9884717.44 0.0288 0.0026

Saturn 22351-07-31 12:28 G 9884805.89 9884806.02 9884806.16 0.0287 0.0153

Saturn 22351-10-28 05:45 G 9884894.71 9884894.74 9884894.78 0.0287 0.0277

Moon 22353-07-01 20:24 G 9885507.22 9885507.35 9885507.49 0.2649 0.0754

Earth 22353-07-01 21:21 G 9885507.26 9885507.39 9885507.53 0.2653 0.0665 *

Mars 22354-01-30 00:28 G 9885719.47 9885719.52 9885719.56 0.1640 0.1536

Jupiter 22354-09-14 09:50 G 9885946.76 9885946.91 9885947.07 0.0524 0.0145

Moon 22355-12-31 09:36 G 9886419.79 9886419.90 9886420.01 0.2679 0.1062

Earth 22355-12-31 10:33 G 9886419.83 9886419.94 9886420.05 0.2679 0.0986 *

Mars 22356-01-05 17:02 G 9886425.18 9886425.21 9886425.24 0.1621 0.1575

Jupiter 22360-02-02 22:48 G 9887914.40 9887914.45 9887914.50 0.0506 0.0461

Jupiter 22360-05-02 08:09 G 9888003.70 9888003.84 9888003.98 0.0502 0.0111

Venus 22361-12-10 04:48 G 9888590.60 9888590.70 9888590.79 0.3692 0.2346

Mars 22362-09-01 00:14 G 9888855.41 9888855.51 9888855.61 0.1914 0.1221

Mars 22365-05-28 00:43 G 9889855.41 9889855.53 9889855.65 0.1625 0.0822

Saturn 22365-11-15 04:04 G 9890026.60 9890026.67 9890026.76 0.0271 0.0223

Saturn 22366-02-11 17:02 G 9890115.09 9890115.21 9890115.34 0.0271 0.0127

Saturn 22366-05-11 06:14 G 9890203.61 9890203.76 9890203.90 0.0271 0.0030

Jupiter 22366-07-03 09:50 G 9890256.78 9890256.91 9890257.03 0.0524 0.0328

Moon 22366-07-04 20:24 G 9890258.23 9890258.35 9890258.47 0.2655 0.1201

Earth 22366-07-04 21:36 G 9890258.29 9890258.40 9890258.52 0.2653 0.1419 *

Saturn 22366-08-07 19:26 G 9890292.17 9890292.31 9890292.46 0.0272 0.0071

Jupiter 22366-10-01 09:36 G 9890346.81 9890346.90 9890346.99 0.0527 0.0430

Saturn 22366-11-04 09:07 G 9890380.77 9890380.88 9890381.00 0.0272 0.0173

Venus 22367-06-26 01:12 G 9890614.43 9890614.55 9890614.67 0.3692 0.0482

Moon 22369-01-02 06:14 G 9891170.64 9891170.76 9891170.88 0.2684 0.0547

Earth 22369-01-02 06:43 G 9891170.66 9891170.78 9891170.90 0.2679 0.0680 *

Venus 22369-01-05 18:43 G 9891174.19 9891174.28 9891174.37 0.3679 0.2274

Mars 22372-01-22 03:50 G 9892285.52 9892285.66 9892285.79 0.1908 0.0081

Jupiter 22372-02-19 11:31 G 9892313.84 9892313.98 9892314.12 0.0503 0.0030

Venus 22373-01-08 21:21 G 9892638.28 9892638.39 9892638.50 0.3693 0.1309

Neptune 22373-07-30 16:04 G 9892841.14 9892841.17 9892841.21 0.0088 0.0086

Neptune 22373-10-26 17:45 G 9892929.18 9892929.24 9892929.31 0.0088 0.0078

Neptune 22374-01-22 19:26 G 9893017.23 9893017.31 9893017.40 0.0088 0.0071

Neptune 22374-04-20 21:07 G 9893105.29 9893105.38 9893105.49 0.0088 0.0064

Neptune 22374-07-17 23:02 G 9893193.35 9893193.46 9893193.58 0.0088 0.0057

Venus 22374-07-22 15:21 G 9893198.02 9893198.14 9893198.27 0.3678 0.0458

Neptune 22374-10-14 00:43 G 9893281.42 9893281.53 9893281.66 0.0088 0.0049

Mars 22374-10-18 08:38 G 9893285.72 9893285.86 9893286.00 0.1630 0.0068

Neptune 22375-01-10 02:24 G 9893369.48 9893369.60 9893369.74 0.0088 0.0042

Neptune 22375-04-08 04:04 G 9893457.55 9893457.67 9893457.82 0.0088 0.0036

Neptune 22375-07-05 06:14 G 9893545.62 9893545.76 9893545.90 0.0088 0.0027

Neptune 22375-10-01 07:55 G 9893633.69 9893633.83 9893633.98 0.0088 0.0020

Neptune 22375-12-28 09:50 G 9893721.76 9893721.91 9893722.06 0.0088 0.0012

Neptune 22376-03-25 11:31 G 9893809.84 9893809.98 9893810.13 0.0088 0.0006

Neptune 22376-06-21 13:26 G 9893897.91 9893898.06 9893898.21 0.0088 0.0002

Neptune 22376-09-17 15:07 G 9893985.99 9893986.13 9893986.29 0.0088 0.0011

Neptune 22376-12-14 17:02 G 9894074.07 9894074.21 9894074.36 0.0088 0.0018

Neptune 22377-03-12 18:43 G 9894162.15 9894162.28 9894162.43 0.0088 0.0025

Neptune 22377-06-08 20:52 G 9894250.23 9894250.37 9894250.51 0.0088 0.0033

Neptune 22377-09-04 22:33 G 9894338.31 9894338.44 9894338.58 0.0088 0.0040

Neptune 22377-12-02 00:14 G 9894426.39 9894426.51 9894426.65 0.0088 0.0048

Neptune 22378-02-28 02:09 G 9894514.48 9894514.59 9894514.72 0.0088 0.0055

Jupiter 22378-04-21 09:36 G 9894566.87 9894566.90 9894566.93 0.0522 0.0510

Neptune 22378-05-27 03:50 G 9894602.57 9894602.66 9894602.78 0.0088 0.0064

Jupiter 22378-07-20 09:50 G 9894656.77 9894656.91 9894657.05 0.0526 0.0252

Venus 22378-07-25 17:16 G 9894662.15 9894662.22 9894662.28 0.3693 0.3023

Neptune 22378-08-23 06:00 G 9894690.67 9894690.75 9894690.84 0.0088 0.0071

Neptune 22378-11-19 07:55 G 9894778.77 9894778.83 9894778.90 0.0088 0.0078

Neptune 22379-02-15 09:36 G 9894866.88 9894866.90 9894866.94 0.0088 0.0086

Venus 22380-02-05 12:28 G 9895221.91 9895222.02 9895222.14 0.3678 0.1498

Saturn 22380-06-22 23:02 G 9895360.33 9895360.46 9895360.60 0.0288 0.0157

Saturn 22380-09-19 17:31 G 9895449.07 9895449.23 9895449.40 0.0288 0.0025

Saturn 22380-12-17 11:31 G 9895537.84 9895537.98 9895538.13 0.0288 0.0107

Saturn 22381-03-16 05:02 G 9895626.62 9895626.71 9895626.81 0.0287 0.0233

Mars 22381-06-13 06:43 G 9895715.69 9895715.78 9895715.87 0.1901 0.1416

Earth 22382-01-05 03:07 G 9895921.58 9895921.63 9895921.68 0.2679 0.2391

Moon 22382-01-05 03:07 G 9895921.59 9895921.63 9895921.68 0.2685 0.2469 *

Jupiter 22383-12-08 13:55 G 9896623.95 9896624.08 9896624.21 0.0504 0.0185

Jupiter 22384-03-07 00:00 G 9896713.41 9896713.50 9896713.59 0.0501 0.0395

Mars 22384-03-09 16:33 G 9896716.06 9896716.19 9896716.31 0.1635 0.0688

Venus 22385-08-21 10:04 G 9897245.89 9897245.92 9897245.96 0.3677 0.3510

Moon 22386-06-30 02:09 G 9897558.54 9897558.59 9897558.63 0.2647 0.2491

Earth 22386-06-30 02:38 G 9897558.55 9897558.61 9897558.67 0.2653 0.2374 *

Uranus 22387-07-21 08:24 G 9897944.83 9897944.85 9897944.87 0.0145 0.0143

Uranus 22387-10-17 12:57 G 9898032.97 9898033.04 9898033.14 0.0145 0.0122

Uranus 22388-01-13 18:00 G 9898121.15 9898121.25 9898121.37 0.0145 0.0098

Uranus 22388-04-10 23:02 G 9898209.34 9898209.46 9898209.60 0.0145 0.0075

Uranus 22388-07-08 04:04 G 9898297.53 9898297.67 9898297.82 0.0145 0.0052

Uranus 22388-10-04 09:07 G 9898385.74 9898385.88 9898386.03 0.0145 0.0029

Moon 22388-12-28 18:57 G 9898471.24 9898471.29 9898471.34 0.2676 0.2400

Earth 22388-12-28 19:40 G 9898471.26 9898471.32 9898471.38 0.2679 0.2267 *

Uranus 22388-12-31 14:24 G 9898473.94 9898474.10 9898474.25 0.0145 0.0005

Uranus 22389-03-29 19:26 G 9898562.16 9898562.31 9898562.46 0.0145 0.0019

Uranus 22389-06-26 00:28 G 9898650.38 9898650.52 9898650.67 0.0145 0.0043

Uranus 22389-09-22 05:45 G 9898738.61 9898738.74 9898738.88 0.0145 0.0067

Uranus 22389-12-19 10:48 G 9898826.84 9898826.95 9898827.08 0.0145 0.0092

Uranus 22390-03-17 16:19 G 9898915.09 9898915.18 9898915.27 0.0145 0.0116

Jupiter 22390-05-08 09:36 G 9898966.74 9898966.90 9898967.06 0.0525 0.0064

Uranus 22390-06-13 21:21 G 9899003.37 9899003.39 9899003.44 0.0145 0.0141

Mars 22393-07-31 00:43 G 9900146.46 9900146.53 9900146.59 0.1639 0.1428

Saturn 22395-04-04 07:26 G 9900758.75 9900758.81 9900758.88 0.0271 0.0241

Saturn 22395-07-01 20:09 G 9900847.22 9900847.34 9900847.47 0.0271 0.0147

Jupiter 22395-09-26 17:16 G 9900934.12 9900934.22 9900934.33 0.0505 0.0327

Saturn 22395-09-28 09:21 G 9900935.74 9900935.89 9900936.03 0.0271 0.0050

Jupiter 22395-12-25 02:52 G 9901023.50 9901023.62 9901023.75 0.0502 0.0250

Saturn 22395-12-25 22:33 G 9901024.29 9901024.44 9901024.58 0.0271 0.0051

Saturn 22396-03-23 12:00 G 9901112.88 9901113.00 9901113.13 0.0272 0.0153

Saturn 22396-06-20 01:55 G 9901201.54 9901201.58 9901201.63 0.0272 0.0257

Moon 22399-07-03 02:09 G 9902309.45 9902309.59 9902309.72 0.2651 0.0379

Earth 22399-07-03 03:07 G 9902309.50 9902309.63 9902309.77 0.2653 0.0236 *

Moon 22401-12-31 14:52 G 9903222.00 9903222.12 9903222.23 0.2680 0.0780

Earth 22401-12-31 15:36 G 9903222.04 9903222.15 9903222.27 0.2679 0.0650 *

Jupiter 22402-02-24 08:09 G 9903276.69 9903276.84 9903277.00 0.0524 0.0139

Mars 22402-03-02 00:43 G 9903282.43 9903282.53 9903282.62 0.1914 0.1371

Mars 22404-11-26 00:57 G 9904282.43 9904282.54 9904282.65 0.1625 0.0930

Jupiter 22407-07-15 20:52 G 9905244.32 9905244.37 9905244.43 0.0506 0.0462

Jupiter 22407-10-13 06:28 G 9905333.63 9905333.77 9905333.91 0.0503 0.0112

Saturn 22409-11-10 00:00 G 9906092.38 9906092.50 9906092.63 0.0288 0.0191

Saturn 22410-02-06 18:43 G 9906181.12 9906181.28 9906181.44 0.0288 0.0057

Saturn 22410-05-06 12:43 G 9906269.88 9906270.03 9906270.19 0.0288 0.0074

Saturn 22410-08-03 06:14 G 9906358.65 9906358.76 9906358.88 0.0287 0.0201

Mars 22411-07-23 03:50 G 9906712.53 9906712.66 9906712.80 0.1908 0.0082

Moon 22412-07-05 02:09 G 9907060.49 9907060.59 9907060.69 0.2655 0.1749

Earth 22412-07-05 03:21 G 9907060.54 9907060.64 9907060.74 0.2653 0.1836 *

Venus 22412-12-31 06:43 G 9907239.77 9907239.78 9907239.80 0.3691 0.3661

Jupiter 22413-12-13 07:40 G 9907586.70 9907586.82 9907586.95 0.0523 0.0328

Jupiter 22414-03-13 07:26 G 9907676.73 9907676.81 9907676.91 0.0527 0.0429

Mars 22414-04-18 08:38 G 9907712.73 9907712.86 9907713.00 0.1630 0.0181

Moon 22415-01-03 11:16 G 9907972.86 9907972.97 9907973.09 0.2685 0.1022

Earth 22415-01-03 11:45 G 9907972.88 9907972.99 9907973.11 0.2679 0.1032 *

Venus 22418-07-17 03:36 G 9909263.54 9909263.65 9909263.76 0.3692 0.1729

Jupiter 22419-08-01 09:50 G 9909643.77 9909643.91 9909644.05 0.0503 0.0028

Venus 22420-01-27 21:07 G 9909823.34 9909823.38 9909823.42 0.3679 0.3461

Mars 22420-12-12 07:12 G 9910142.70 9910142.80 9910142.90 0.1902 0.1267

Mars 22423-09-08 16:48 G 9911143.07 9911143.20 9911143.33 0.1634 0.0571

Venus 22424-01-31 00:00 G 9911287.38 9911287.50 9911287.62 0.3692 0.0114

Saturn 22424-11-17 21:07 G 9911579.28 9911579.38 9911579.49 0.0271 0.0181

Saturn 22425-02-14 10:04 G 9911667.78 9911667.92 9911668.06 0.0271 0.0085

Saturn 22425-05-13 23:16 G 9911756.32 9911756.47 9911756.62 0.0272 0.0014

Saturn 22425-08-10 12:43 G 9911844.89 9911845.03 9911845.16 0.0272 0.0115

Venus 22425-08-12 17:31 G 9911847.13 9911847.23 9911847.34 0.3679 0.1684

Jupiter 22425-10-01 07:26 G 9911896.78 9911896.81 9911896.84 0.0523 0.0514

Saturn 22425-11-07 02:24 G 9911933.51 9911933.60 9911933.69 0.0272 0.0218

Jupiter 22425-12-30 07:55 G 9911986.69 9911986.83 9911986.97 0.0526 0.0250

Uranus 22429-08-11 09:36 G 9913306.86 9913306.90 9913306.97 0.0133 0.0126

Venus 22429-08-15 20:09 G 9913311.23 9913311.34 9913311.44 0.3693 0.1885

Uranus 22429-11-07 14:38 G 9913395.02 9913395.11 9913395.22 0.0133 0.0105

Uranus 22430-02-03 19:40 G 9913483.20 9913483.32 9913483.45 0.0133 0.0085

Uranus 22430-05-03 00:28 G 9913571.39 9913571.52 9913571.67 0.0133 0.0066

Uranus 22430-07-30 05:31 G 9913659.58 9913659.73 9913659.88 0.0133 0.0046

Uranus 22430-10-26 10:19 G 9913747.77 9913747.93 9913748.09 0.0133 0.0026

Uranus 22431-01-22 15:07 G 9913835.97 9913836.13 9913836.29 0.0133 0.0007

Venus 22431-02-26 14:24 G 9913870.98 9913871.10 9913871.22 0.3678 0.0181

Uranus 22431-04-20 19:40 G 9913924.16 9913924.32 9913924.49 0.0133 0.0013

Jupiter 22431-05-20 13:12 G 9913953.92 9913954.05 9913954.18 0.0504 0.0169

Uranus 22431-07-18 00:28 G 9914012.36 9914012.52 9914012.68 0.0133 0.0032

Jupiter 22431-08-17 23:02 G 9914043.38 9914043.46 9914043.55 0.0501 0.0411

Uranus 22431-10-14 05:02 G 9914100.57 9914100.71 9914100.86 0.0133 0.0051

Uranus 22432-01-10 09:36 G 9914188.77 9914188.90 9914189.04 0.0133 0.0070

Uranus 22432-04-07 14:24 G 9914276.98 9914277.10 9914277.21 0.0133 0.0089

Moon 22432-06-30 07:40 G 9914360.73 9914360.82 9914360.92 0.2647 0.1954

Earth 22432-06-30 08:24 G 9914360.76 9914360.85 9914360.95 0.2653 0.1934 *

Uranus 22432-07-04 18:43 G 9914365.19 9914365.28 9914365.38 0.0133 0.0107

Uranus 22432-09-30 23:16 G 9914453.42 9914453.47 9914453.52 0.0133 0.0126

Mars 22433-01-29 00:43 G 9914573.45 9914573.53 9914573.61 0.1639 0.1320

Moon 22434-12-30 00:00 G 9915273.42 9915273.50 9915273.58 0.2676 0.2004

Earth 22434-12-30 00:43 G 9915273.45 9915273.53 9915273.62 0.2679 0.1935 *

Venus 22435-03-01 15:50 G 9915335.13 9915335.16 9915335.18 0.3693 0.3572

Venus 22436-09-11 11:45 G 9915894.89 9915894.99 9915895.09 0.3678 0.2141

Jupiter 22437-10-18 08:09 G 9916296.68 9916296.84 9916297.00 0.0525 0.0072

Saturn 22439-03-29 22:19 G 9916824.35 9916824.43 9916824.52 0.0288 0.0243

Saturn 22439-06-26 17:16 G 9916913.07 9916913.22 9916913.37 0.0288 0.0107

Saturn 22439-09-23 11:31 G 9917001.82 9917001.98 9917002.14 0.0288 0.0026

Saturn 22439-12-21 05:31 G 9917090.59 9917090.73 9917090.86 0.0288 0.0155

Saturn 22440-03-18 22:48 G 9917179.42 9917179.45 9917179.48 0.0287 0.0279

Mars 22441-08-31 00:57 G 9917709.46 9917709.54 9917709.62 0.1914 0.1516

Jupiter 22443-03-08 15:50 G 9918264.05 9918264.16 9918264.27 0.0505 0.0323

Jupiter 22443-06-06 01:26 G 9918353.44 9918353.56 9918353.68 0.0502 0.0253

Mars 22444-05-27 01:12 G 9918709.44 9918709.55 9918709.65 0.1625 0.1045

Moon 22445-07-03 07:40 G 9919111.69 9919111.82 9919111.96 0.2652 0.0047

Earth 22445-07-03 08:52 G 9919111.74 9919111.87 9919112.01 0.2653 0.0209 *

Moon 22448-01-01 20:09 G 9920024.22 9920024.34 9920024.46 0.2682 0.0416

Earth 22448-01-01 20:52 G 9920024.25 9920024.37 9920024.49 0.2678 0.0299 *

Jupiter 22449-08-06 07:40 G 9920606.66 9920606.82 9920606.97 0.0524 0.0119

Mars 22451-01-21 04:19 G 9921139.54 9921139.68 9921139.81 0.1908 0.0205

Mars 22453-10-17 08:52 G 9922139.74 9922139.87 9922140.01 0.1630 0.0288

Saturn 22454-04-07 00:14 G 9922311.42 9922311.51 9922311.61 0.0271 0.0201

Saturn 22454-07-04 13:12 G 9922399.92 9922400.05 9922400.19 0.0271 0.0104

Saturn 22454-10-01 02:24 G 9922488.45 9922488.60 9922488.74 0.0271 0.0008

Jupiter 22454-12-25 18:57 G 9922574.24 9922574.29 9922574.35 0.0506 0.0466

Saturn 22454-12-28 15:36 G 9922577.02 9922577.15 9922577.29 0.0272 0.0095

Jupiter 22455-03-25 04:33 G 9922663.55 9922663.69 9922663.83 0.0503 0.0108

Saturn 22455-03-27 05:16 G 9922665.62 9922665.72 9922665.83 0.0272 0.0198

Neptune 22457-01-22 22:48 G 9923333.45 9923333.45 9923333.46 0.0089 0.0089

Neptune 22457-04-21 01:12 G 9923421.49 9923421.55 9923421.63 0.0089 0.0080

Neptune 22457-07-18 03:50 G 9923509.57 9923509.66 9923509.77 0.0089 0.0072

Neptune 22457-10-14 06:28 G 9923597.66 9923597.77 9923597.90 0.0089 0.0063

Neptune 22458-01-10 09:21 G 9923685.75 9923685.89 9923686.02 0.0089 0.0054

Neptune 22458-04-08 11:31 G 9923773.85 9923773.98 9923774.14 0.0089 0.0046

Neptune 22458-07-05 14:09 G 9923861.95 9923862.09 9923862.26 0.0089 0.0037

Moon 22458-07-06 07:55 G 9923862.75 9923862.83 9923862.91 0.2655 0.2085

Earth 22458-07-06 08:52 G 9923862.80 9923862.87 9923862.94 0.2653 0.2248 *

Neptune 22458-10-01 17:02 G 9923950.05 9923950.21 9923950.37 0.0089 0.0027

Neptune 22458-12-28 19:40 G 9924038.15 9924038.32 9924038.48 0.0089 0.0018

Neptune 22459-03-26 22:04 G 9924126.26 9924126.42 9924126.59 0.0089 0.0010

Pluto 22459-04-18 11:31 G 9924148.98 9924148.98 9924149.00 0.0070 0.0070

Neptune 22459-06-23 00:43 G 9924214.36 9924214.53 9924214.69 0.0089 0.0002

Pluto 22459-07-15 12:14 G 9924236.95 9924237.01 9924237.07 0.0070 0.0060

Neptune 22459-09-19 03:07 G 9924302.47 9924302.63 9924302.80 0.0089 0.0008

Pluto 22459-10-11 12:43 G 9924324.95 9924325.03 9924325.12 0.0070 0.0051

Neptune 22459-12-16 05:31 G 9924390.57 9924390.73 9924390.90 0.0089 0.0017

Pluto 22460-01-07 13:12 G 9924412.96 9924413.05 9924413.16 0.0070 0.0042

Neptune 22460-03-13 07:55 G 9924478.68 9924478.83 9924479.00 0.0089 0.0025

Pluto 22460-04-04 13:55 G 9924500.97 9924501.08 9924501.20 0.0070 0.0033

Neptune 22460-06-09 10:33 G 9924566.79 9924566.94 9924567.10 0.0089 0.0033

Mars 22460-06-12 07:26 G 9924569.70 9924569.81 9924569.92 0.1901 0.1121

Pluto 22460-07-01 14:24 G 9924588.98 9924589.10 9924589.23 0.0070 0.0023

Neptune 22460-09-05 12:57 G 9924654.90 9924655.04 9924655.19 0.0089 0.0042

Pluto 22460-09-27 15:07 G 9924677.00 9924677.13 9924677.26 0.0071 0.0014

Neptune 22460-12-02 15:21 G 9924743.01 9924743.14 9924743.28 0.0089 0.0051

Pluto 22460-12-24 15:50 G 9924765.03 9924765.16 9924765.29 0.0071 0.0004

Moon 22461-01-03 16:33 G 9924775.09 9924775.19 9924775.30 0.2685 0.1292

Earth 22461-01-03 17:02 G 9924775.11 9924775.21 9924775.32 0.2678 0.1380 *

Neptune 22461-02-28 17:45 G 9924831.13 9924831.24 9924831.37 0.0089 0.0059

Pluto 22461-03-22 16:33 G 9924853.05 9924853.19 9924853.32 0.0071 0.0006

Jupiter 22461-05-25 06:00 G 9924916.63 9924916.75 9924916.88 0.0523 0.0323

Neptune 22461-05-27 20:09 G 9924919.25 9924919.34 9924919.46 0.0089 0.0068

Pluto 22461-06-18 17:02 G 9924941.08 9924941.21 9924941.34 0.0071 0.0015

Jupiter 22461-08-23 05:45 G 9925006.66 9925006.74 9925006.83 0.0527 0.0433

Neptune 22461-08-23 22:48 G 9925007.37 9925007.45 9925007.54 0.0089 0.0076

Pluto 22461-09-14 17:31 G 9925029.11 9925029.23 9925029.36 0.0071 0.0025

Neptune 22461-11-20 00:57 G 9925095.50 9925095.54 9925095.61 0.0089 0.0084

Pluto 22461-12-11 18:14 G 9925117.15 9925117.26 9925117.38 0.0071 0.0035

Pluto 22462-03-09 18:43 G 9925205.19 9925205.28 9925205.39 0.0071 0.0045

Pluto 22462-06-05 19:12 G 9925293.23 9925293.30 9925293.40 0.0071 0.0056

Pluto 22462-09-01 19:55 G 9925381.29 9925381.33 9925381.40 0.0071 0.0065

Mars 22463-03-09 16:48 G 9925570.07 9925570.20 9925570.34 0.1634 0.0471

Jupiter 22467-01-11 07:55 G 9926973.69 9926973.83 9926973.98 0.0504 0.0033

Saturn 22468-08-15 23:45 G 9927556.45 9927556.49 9927556.55 0.0289 0.0273

Saturn 22468-11-12 18:57 G 9927645.15 9927645.29 9927645.43 0.0288 0.0136

Saturn 22469-02-09 13:12 G 9927733.89 9927734.05 9927734.22 0.0288 0.0009

Saturn 22469-05-09 07:12 G 9927822.66 9927822.80 9927822.94 0.0288 0.0127

Saturn 22469-08-06 00:28 G 9927911.45 9927911.52 9927911.60 0.0287 0.0253

Venus 22469-08-07 05:45 G 9927912.67 9927912.74 9927912.81 0.3691 0.3032

Uranus 22471-08-10 15:36 G 9928646.11 9928646.15 9928646.20 0.0145 0.0137

Uranus 22471-11-06 20:24 G 9928734.27 9928734.35 9928734.45 0.0145 0.0115

Uranus 22472-02-03 01:26 G 9928822.45 9928822.56 9928822.68 0.0145 0.0092

Uranus 22472-05-01 06:28 G 9928910.64 9928910.77 9928910.91 0.0145 0.0069

Uranus 22472-07-28 11:31 G 9928998.84 9928998.98 9928999.12 0.0145 0.0046

Mars 22472-07-30 00:57 G 9929000.45 9929000.54 9929000.63 0.1639 0.1212

Uranus 22472-10-24 16:33 G 9929087.04 9929087.19 9929087.34 0.0145 0.0022

Uranus 22473-01-20 21:36 G 9929175.25 9929175.40 9929175.55 0.0145 0.0002

Jupiter 22473-03-13 05:16 G 9929226.70 9929226.72 9929226.74 0.0522 0.0516

Uranus 22473-04-19 02:52 G 9929263.47 9929263.62 9929263.77 0.0145 0.0026

Jupiter 22473-06-11 05:45 G 9929316.60 9929316.74 9929316.88 0.0526 0.0247

Uranus 22473-07-16 07:55 G 9929351.69 9929351.83 9929351.98 0.0145 0.0049

Uranus 22473-10-12 13:12 G 9929439.92 9929440.05 9929440.18 0.0145 0.0073

Uranus 22474-01-08 18:14 G 9929528.15 9929528.26 9929528.38 0.0145 0.0098

Uranus 22474-04-06 23:31 G 9929616.41 9929616.48 9929616.57 0.0145 0.0122

Venus 22475-02-21 02:24 G 9929936.49 9929936.60 9929936.72 0.3692 0.1122

Venus 22476-09-02 19:55 G 9930496.25 9930496.33 9930496.40 0.3679 0.2894

Moon 22478-07-01 13:26 G 9931162.95 9931163.06 9931163.17 0.2648 0.1663

Earth 22478-07-01 14:09 G 9931162.98 9931163.09 9931163.21 0.2653 0.1489 *

Jupiter 22478-10-30 11:31 G 9931283.85 9931283.98 9931284.11 0.0504 0.0169

Jupiter 22479-01-27 21:21 G 9931373.31 9931373.39 9931373.47 0.0501 0.0410

Venus 22480-09-05 22:33 G 9931960.33 9931960.44 9931960.56 0.3692 0.0713

Moon 22480-12-30 05:02 G 9932075.62 9932075.71 9932075.80 0.2676 0.1762

Earth 22480-12-30 06:00 G 9932075.65 9932075.75 9932075.84 0.2678 0.1600 *

Mars 22481-03-01 00:57 G 9932136.48 9932136.54 9932136.61 0.1915 0.1645

Venus 22482-03-19 16:19 G 9932520.07 9932520.18 9932520.30 0.3679 0.1097

Saturn 22483-08-25 01:40 G 9933043.50 9933043.57 9933043.65 0.0271 0.0232

Saturn 22483-11-21 14:24 G 9933131.98 9933132.10 9933132.23 0.0271 0.0137

Mars 22483-11-26 01:26 G 9933136.46 9933136.56 9933136.65 0.1625 0.1160

Saturn 22484-02-18 03:21 G 9933220.50 9933220.64 9933220.79 0.0271 0.0041

Saturn 22484-05-16 16:48 G 9933309.05 9933309.20 9933309.34 0.0272 0.0060

Saturn 22484-08-13 06:14 G 9933397.64 9933397.76 9933397.88 0.0272 0.0163

Saturn 22484-11-09 19:55 G 9933486.32 9933486.33 9933486.37 0.0272 0.0268

Jupiter 22485-03-30 05:45 G 9933626.58 9933626.74 9933626.90 0.0525 0.0065

Venus 22486-03-22 18:43 G 9933984.19 9933984.28 9933984.36 0.3693 0.2446

Venus 22487-10-03 13:26 G 9934543.93 9934544.06 9934544.18 0.3678 0.0809

Mars 22490-07-22 04:48 G 9935566.56 9935566.70 9935566.83 0.1909 0.0364

Jupiter 22490-08-18 14:52 G 9935594.01 9935594.12 9935594.23 0.0505 0.0309

Jupiter 22490-11-16 00:28 G 9935683.40 9935683.52 9935683.64 0.0502 0.0267

Moon 22491-07-04 13:26 G 9935913.92 9935914.06 9935914.19 0.2653 0.0516

Earth 22491-07-04 14:38 G 9935913.98 9935914.11 9935914.24 0.2653 0.0624 *

Mars 22493-04-17 09:07 G 9936566.75 9936566.88 9936567.02 0.1629 0.0406

Venus 22493-04-18 10:48 G 9936567.87 9936567.95 9936568.03 0.3677 0.2792

Moon 22494-01-02 01:12 G 9936826.43 9936826.55 9936826.67 0.2683 0.0028

Earth 22494-01-02 01:55 G 9936826.46 9936826.58 9936826.70 0.2678 0.0047 *

Jupiter 22497-01-16 05:45 G 9937936.59 9937936.74 9937936.90 0.0524 0.0116

Saturn 22498-04-01 17:31 G 9938377.10 9938377.23 9938377.35 0.0288 0.0186

Saturn 22498-06-29 12:00 G 9938465.84 9938466.00 9938466.16 0.0288 0.0051

Saturn 22498-09-26 06:14 G 9938554.61 9938554.76 9938554.91 0.0288 0.0080

Saturn 22498-12-23 23:45 G 9938643.39 9938643.49 9938643.60 0.0287 0.0208

Mars 22499-12-12 07:40 G 9938996.71 9938996.82 9938996.94 0.1901 0.0977

Jupiter 22502-06-07 17:31 G 9939904.18 9939904.23 9939904.29 0.0506 0.0463

Jupiter 22502-09-05 02:52 G 9939993.48 9939993.62 9939993.76 0.0503 0.0109

Mars 22502-09-08 17:02 G 9939997.08 9939997.21 9939997.35 0.1634 0.0358

Moon 22504-07-07 13:40 G 9940665.04 9940665.07 9940665.11 0.2657 0.2560

Moon 22507-01-05 22:04 G 9941577.33 9941577.42 9941577.51 0.2685 0.1723

Earth 22507-01-05 22:19 G 9941577.34 9941577.43 9941577.52 0.2678 0.1734 *

Jupiter 22508-11-05 05:16 G 9942246.59 9942246.72 9942246.85 0.0523 0.0306

Jupiter 22509-02-03 05:02 G 9942336.63 9942336.71 9942336.79 0.0527 0.0449

Mars 22512-01-30 01:12 G 9943427.45 9943427.55 9943427.65 0.1639 0.1107

Saturn 22513-01-12 04:48 G 9943775.65 9943775.70 9943775.76 0.0271 0.0252

Saturn 22513-04-10 17:31 G 9943864.12 9943864.23 9943864.35 0.0271 0.0157

Saturn 22513-07-08 06:28 G 9943952.63 9943952.77 9943952.92 0.0271 0.0060

Uranus 22513-09-01 16:48 G 9944008.13 9944008.20 9944008.27 0.0133 0.0121

Saturn 22513-10-04 19:40 G 9944041.18 9944041.32 9944041.47 0.0272 0.0041

Uranus 22513-11-28 21:50 G 9944096.30 9944096.41 9944096.51 0.0133 0.0101

Saturn 22514-01-01 09:21 G 9944129.76 9944129.89 9944130.02 0.0272 0.0142

Uranus 22514-02-25 02:38 G 9944184.48 9944184.61 9944184.74 0.0133 0.0081

Saturn 22514-03-30 23:02 G 9944218.40 9944218.46 9944218.53 0.0272 0.0247

Uranus 22514-05-24 07:26 G 9944272.67 9944272.81 9944272.96 0.0133 0.0061

Jupiter 22514-06-24 06:00 G 9944303.61 9944303.75 9944303.89 0.0504 0.0036

Uranus 22514-08-20 12:14 G 9944360.86 9944361.01 9944361.17 0.0133 0.0042

Uranus 22514-11-16 17:02 G 9944449.06 9944449.21 9944449.38 0.0133 0.0022

Uranus 22515-02-12 21:50 G 9944537.25 9944537.41 9944537.58 0.0133 0.0004

Uranus 22515-05-12 02:38 G 9944625.45 9944625.61 9944625.77 0.0133 0.0017

Uranus 22515-08-08 07:12 G 9944713.65 9944713.80 9944713.96 0.0133 0.0037

Uranus 22515-11-04 12:00 G 9944801.86 9944802.00 9944802.15 0.0133 0.0055

Uranus 22516-01-31 16:33 G 9944890.06 9944890.19 9944890.32 0.0133 0.0074

Uranus 22516-04-28 20:52 G 9944978.27 9944978.37 9944978.50 0.0133 0.0094

Uranus 22516-07-26 01:40 G 9945066.49 9945066.57 9945066.66 0.0133 0.0112

Uranus 22516-10-22 06:00 G 9945154.73 9945154.75 9945154.79 0.0133 0.0130

Jupiter 22520-08-24 03:21 G 9946556.62 9946556.64 9946556.67 0.0522 0.0514

Mars 22520-08-31 01:26 G 9946563.52 9946563.56 9946563.60 0.1915 0.1803

Jupiter 22520-11-22 03:50 G 9946646.52 9946646.66 9946646.80 0.0526 0.0248

Mars 22523-05-28 01:40 G 9947563.48 9947563.57 9947563.65 0.1625 0.1273

Moon 22524-07-02 18:57 G 9947965.17 9947965.29 9947965.42 0.2650 0.1094

Earth 22524-07-02 20:09 G 9947965.21 9947965.34 9947965.46 0.2653 0.1044 *

Venus 22526-03-15 04:33 G 9948585.60 9948585.69 9948585.78 0.3692 0.2409

Jupiter 22526-04-12 09:36 G 9948613.76 9948613.90 9948614.03 0.0504 0.0175

Jupiter 22526-07-10 19:26 G 9948703.23 9948703.31 9948703.39 0.0501 0.0406

Moon 22527-01-01 10:04 G 9948877.82 9948877.92 9948878.03 0.2678 0.1316

Earth 22527-01-01 11:02 G 9948877.85 9948877.96 9948878.06 0.2678 0.1266 *

Saturn 22527-08-20 19:40 G 9949109.21 9949109.32 9949109.43 0.0288 0.0212

Saturn 22527-11-17 14:09 G 9949197.94 9949198.09 9949198.25 0.0288 0.0077

Saturn 22528-02-14 08:24 G 9949286.70 9949286.85 9949287.01 0.0288 0.0056

Saturn 22528-05-13 02:09 G 9949375.47 9949375.59 9949375.71 0.0288 0.0183

Mars 22530-01-21 04:48 G 9949993.57 9949993.70 9949993.83 0.1908 0.0485

Venus 22531-09-29 01:12 G 9950609.43 9950609.55 9950609.67 0.3692 0.0522

Jupiter 22532-09-10 03:21 G 9950956.48 9950956.64 9950956.80 0.0525 0.0059

Mars 22532-10-17 09:21 G 9950993.76 9950993.89 9950994.02 0.1630 0.0510

Venus 22533-04-10 18:43 G 9951169.18 9951169.28 9951169.37 0.3679 0.2315

Venus 22537-04-13 21:21 G 9952633.28 9952633.39 9952633.50 0.3693 0.1273

Moon 22537-07-05 19:12 G 9952716.17 9952716.30 9952716.43 0.2653 0.0841

Earth 22537-07-05 20:24 G 9952716.22 9952716.35 9952716.47 0.2653 0.1058 *

Jupiter 22538-01-29 12:57 G 9952923.94 9952924.04 9952924.15 0.0505 0.0312

Neptune 22538-04-27 15:21 G 9953012.11 9953012.14 9953012.21 0.0088 0.0083

Jupiter 22538-04-28 22:33 G 9953013.32 9953013.44 9953013.57 0.0502 0.0265

Neptune 22538-07-24 17:31 G 9953100.16 9953100.23 9953100.31 0.0088 0.0075

Neptune 22538-10-20 19:12 G 9953188.21 9953188.30 9953188.40 0.0088 0.0067

Venus 22538-10-25 15:21 G 9953193.01 9953193.14 9953193.26 0.3678 0.0508

Neptune 22539-01-16 20:52 G 9953276.27 9953276.37 9953276.48 0.0088 0.0060

Neptune 22539-04-14 22:33 G 9953364.33 9953364.44 9953364.57 0.0088 0.0053

Mars 22539-06-13 07:55 G 9953423.71 9953423.83 9953423.96 0.1902 0.0836

Neptune 22539-07-12 00:28 G 9953452.40 9953452.52 9953452.65 0.0088 0.0046

Neptune 22539-10-08 02:09 G 9953540.46 9953540.59 9953540.73 0.0088 0.0038

Neptune 22540-01-04 03:50 G 9953628.53 9953628.66 9953628.81 0.0088 0.0031

Moon 22540-01-04 06:28 G 9953628.65 9953628.77 9953628.89 0.2683 0.0257 *

Earth 22540-01-04 07:12 G 9953628.68 9953628.80 9953628.92 0.2678 0.0395 *

Neptune 22540-04-01 05:45 G 9953716.60 9953716.74 9953716.89 0.0088 0.0024

Neptune 22540-06-28 07:40 G 9953804.67 9953804.82 9953804.97 0.0088 0.0016

Neptune 22540-09-24 09:21 G 9953892.75 9953892.89 9953893.04 0.0088 0.0009

Neptune 22540-12-21 11:16 G 9953980.82 9953980.97 9953981.12 0.0088 0.0001

Neptune 22541-03-19 12:57 G 9954068.90 9954069.04 9954069.19 0.0088 0.0007

Neptune 22541-06-15 14:52 G 9954156.97 9954157.12 9954157.27 0.0088 0.0014

Neptune 22541-09-11 16:48 G 9954245.05 9954245.20 9954245.34 0.0088 0.0021

Neptune 22541-12-08 18:28 G 9954333.13 9954333.27 9954333.42 0.0088 0.0029

Neptune 22542-03-06 20:24 G 9954421.21 9954421.35 9954421.49 0.0088 0.0036

Mars 22542-03-09 17:16 G 9954424.09 9954424.22 9954424.36 0.1634 0.0246

Neptune 22542-06-02 22:04 G 9954509.30 9954509.42 9954509.56 0.0088 0.0044

Saturn 22542-08-28 19:12 G 9954596.20 9954596.30 9954596.41 0.0271 0.0187

Neptune 22542-08-29 23:45 G 9954597.38 9954597.49 9954597.63 0.0088 0.0052

Venus 22542-10-28 17:16 G 9954657.15 9954657.22 9954657.29 0.3693 0.3005

Saturn 22542-11-25 08:09 G 9954684.70 9954684.84 9954684.98 0.0271 0.0090

Neptune 22542-11-26 01:55 G 9954685.47 9954685.58 9954685.69 0.0088 0.0059

Saturn 22543-02-21 21:21 G 9954773.24 9954773.39 9954773.53 0.0271 0.0011

Neptune 22543-02-22 03:36 G 9954773.56 9954773.65 9954773.76 0.0088 0.0067

Neptune 22543-05-21 05:45 G 9954861.66 9954861.74 9954861.82 0.0088 0.0075

Saturn 22543-05-21 10:33 G 9954861.81 9954861.94 9954862.08 0.0272 0.0110 *

Neptune 22543-08-17 07:26 G 9954949.77 9954949.81 9954949.87 0.0088 0.0082

Saturn 22543-08-18 00:14 G 9954950.42 9954950.51 9954950.61 0.0272 0.0213

Venus 22544-05-10 12:14 G 9955216.90 9955217.01 9955217.13 0.3678 0.1443

Jupiter 22544-06-29 03:07 G 9955266.47 9955266.63 9955266.79 0.0524 0.0127

Pluto 22545-05-30 00:00 G 9955601.42 9955601.50 9955601.60 0.0074 0.0065

Pluto 22545-08-26 02:24 G 9955689.47 9955689.60 9955689.77 0.0074 0.0049

Pluto 22545-11-22 05:16 G 9955777.54 9955777.72 9955777.90 0.0073 0.0032

Pluto 22546-02-18 07:55 G 9955865.63 9955865.83 9955866.02 0.0073 0.0016

Pluto 22546-05-17 10:19 G 9955953.73 9955953.93 9955954.13 0.0073 0.0000

Pluto 22546-08-13 12:43 G 9956041.84 9956042.03 9956042.23 0.0073 0.0016

Pluto 22546-11-09 15:07 G 9956129.96 9956130.13 9956130.31 0.0073 0.0032

Pluto 22547-02-05 17:31 G 9956218.09 9956218.23 9956218.39 0.0073 0.0048

Pluto 22547-05-04 19:40 G 9956306.25 9956306.32 9956306.43 0.0073 0.0064

Jupiter 22549-11-17 16:33 G 9957234.13 9957234.19 9957234.25 0.0506 0.0451

Venus 22549-11-24 09:50 G 9957240.86 9957240.91 9957240.95 0.3677 0.3445

Jupiter 22550-02-15 01:55 G 9957323.44 9957323.58 9957323.72 0.0502 0.0121

Mars 22551-07-31 01:26 G 9957854.45 9957854.56 9957854.66 0.1639 0.0995

Moon 22553-01-06 03:21 G 9958379.57 9958379.64 9958379.72 0.2685 0.2107

Earth 22553-01-06 03:21 G 9958379.57 9958379.64 9958379.72 0.2678 0.2082 *

Uranus 22555-08-31 23:02 G 9959347.41 9959347.46 9959347.53 0.0145 0.0131

Uranus 22555-11-28 04:04 G 9959435.57 9959435.67 9959435.77 0.0145 0.0109

Uranus 22556-02-24 08:38 G 9959523.75 9959523.86 9959523.99 0.0145 0.0086

Jupiter 22556-04-17 03:07 G 9959576.50 9959576.63 9959576.76 0.0523 0.0308

Uranus 22556-05-22 13:55 G 9959611.94 9959612.08 9959612.21 0.0145 0.0063

Jupiter 22556-07-16 03:07 G 9959666.55 9959666.63 9959666.71 0.0527 0.0449

Uranus 22556-08-18 18:57 G 9959700.14 9959700.29 9959700.43 0.0145 0.0039

Uranus 22556-11-15 00:00 G 9959788.35 9959788.50 9959788.65 0.0145 0.0016

Saturn 22557-01-06 18:00 G 9959841.19 9959841.25 9959841.32 0.0288 0.0262

Uranus 22557-02-11 05:02 G 9959876.56 9959876.71 9959876.86 0.0145 0.0008

Saturn 22557-04-05 12:57 G 9959929.90 9959930.04 9959930.19 0.0288 0.0125

Uranus 22557-05-10 10:04 G 9959964.77 9959964.92 9959965.07 0.0145 0.0032

Saturn 22557-07-03 07:26 G 9960018.65 9960018.81 9960018.97 0.0288 0.0009

Uranus 22557-08-06 15:07 G 9960053.00 9960053.13 9960053.28 0.0145 0.0056

Saturn 22557-09-30 01:12 G 9960107.42 9960107.55 9960107.70 0.0288 0.0139

Uranus 22557-11-02 20:24 G 9960141.23 9960141.35 9960141.48 0.0145 0.0080

Saturn 22557-12-27 18:57 G 9960196.23 9960196.29 9960196.35 0.0287 0.0264

Uranus 22558-01-30 01:40 G 9960229.47 9960229.57 9960229.68 0.0145 0.0104

Uranus 22558-04-28 06:43 G 9960317.73 9960317.78 9960317.86 0.0145 0.0129

Moon 22559-12-30 19:40 G 9960929.28 9960929.32 9960929.35 0.2673 0.2557

Earth 22559-12-30 20:09 G 9960929.31 9960929.34 9960929.38 0.2678 0.2539 *

Jupiter 22561-12-04 04:19 G 9961633.54 9961633.68 9961633.82 0.0503 0.0035

Mars 22562-11-26 01:40 G 9961990.50 9961990.57 9961990.65 0.1625 0.1386

Jupiter 22568-02-04 02:24 G 9963886.56 9963886.60 9963886.64 0.0522 0.0500

Jupiter 22568-05-04 02:52 G 9963976.48 9963976.62 9963976.76 0.0526 0.0263

Mars 22569-07-22 05:02 G 9964420.59 9964420.71 9964420.84 0.1909 0.0643

Moon 22570-07-04 00:43 G 9964767.40 9964767.53 9964767.66 0.2650 0.0843

Earth 22570-07-04 01:55 G 9964767.44 9964767.58 9964767.71 0.2653 0.0614 *

Saturn 22572-01-15 22:04 G 9965328.34 9965328.42 9965328.52 0.0271 0.0207

Saturn 22572-04-13 11:02 G 9965416.83 9965416.96 9965417.09 0.0271 0.0111

Mars 22572-04-17 09:36 G 9965420.77 9965420.90 9965421.03 0.1629 0.0621

Saturn 22572-07-11 00:14 G 9965505.36 9965505.51 9965505.65 0.0271 0.0014

Saturn 22572-10-07 13:26 G 9965593.92 9965594.06 9965594.20 0.0272 0.0089

Moon 22573-01-01 15:21 G 9965680.03 9965680.14 9965680.24 0.2680 0.1121

Earth 22573-01-01 16:04 G 9965680.06 9965680.17 9965680.28 0.2678 0.0929 *

Saturn 22573-01-04 03:07 G 9965682.53 9965682.63 9965682.74 0.0272 0.0192

Jupiter 22573-09-22 07:26 G 9965943.68 9965943.81 9965943.94 0.0504 0.0181

Jupiter 22573-12-20 17:16 G 9966033.13 9966033.22 9966033.31 0.0501 0.0398

Mars 22578-12-12 08:24 G 9967850.72 9967850.85 9967850.98 0.1902 0.0684

Jupiter 22580-02-21 01:26 G 9968286.40 9968286.56 9968286.72 0.0525 0.0059

Mars 22581-09-07 17:31 G 9968851.09 9968851.23 9968851.37 0.1634 0.0136

Venus 22582-10-20 03:21 G 9969258.54 9969258.64 9969258.75 0.3692 0.1794

Moon 22583-07-07 00:57 G 9969518.43 9969518.54 9969518.66 0.2654 0.1412

Earth 22583-07-07 02:09 G 9969518.48 9969518.59 9969518.70 0.2653 0.1481 *

Venus 22584-05-01 20:52 G 9969818.34 9969818.37 9969818.41 0.3679 0.3513

Jupiter 22585-07-11 10:48 G 9970253.85 9970253.95 9970254.06 0.0505 0.0320

Jupiter 22585-10-08 20:38 G 9970343.23 9970343.36 9970343.48 0.0502 0.0258

Moon 22586-01-04 11:31 G 9970430.87 9970430.98 9970431.10 0.2683 0.0701

Earth 22586-01-04 12:14 G 9970430.89 9970431.01 9970431.13 0.2678 0.0728 *

Saturn 22586-05-26 20:38 G 9970573.34 9970573.36 9970573.39 0.0289 0.0285

Saturn 22586-08-23 15:36 G 9970662.01 9970662.15 9970662.29 0.0288 0.0148

Saturn 22586-11-20 10:04 G 9970750.76 9970750.92 9970751.09 0.0288 0.0015

Saturn 22587-02-17 04:04 G 9970839.53 9970839.67 9970839.82 0.0288 0.0117

Saturn 22587-05-16 21:36 G 9970928.32 9970928.40 9970928.49 0.0287 0.0243

Venus 22588-05-04 23:45 G 9971282.37 9971282.49 9971282.61 0.3692 0.0099

Venus 22589-11-15 17:16 G 9971842.12 9971842.22 9971842.33 0.3679 0.1743

Mars 22591-01-29 01:26 G 9972281.45 9972281.56 9972281.68 0.1639 0.0887

Jupiter 22591-12-10 00:43 G 9972596.37 9972596.53 9972596.69 0.0524 0.0133

Venus 22593-11-18 19:55 G 9973306.23 9973306.33 9973306.43 0.3693 0.1849

Venus 22595-06-01 14:09 G 9973865.97 9973866.09 9973866.21 0.3678 0.0123

Jupiter 22597-04-29 14:24 G 9974564.05 9974564.10 9974564.17 0.0506 0.0456

Jupiter 22597-07-28 00:00 G 9974653.36 9974653.50 9974653.63 0.0503 0.0118

Uranus 22597-09-21 23:31 G 9974709.40 9974709.48 9974709.56 0.0133 0.0117

Uranus 22597-12-19 04:33 G 9974797.58 9974797.69 9974797.80 0.0133 0.0097

Uranus 22598-03-17 09:07 G 9974885.76 9974885.88 9974886.03 0.0133 0.0077

Uranus 22598-06-13 14:09 G 9974973.95 9974974.09 9974974.24 0.0133 0.0057

Uranus 22598-09-09 19:12 G 9975062.14 9975062.30 9975062.45 0.0133 0.0037

Uranus 22598-12-07 00:00 G 9975150.34 9975150.50 9975150.66 0.0133 0.0018

Moon 22599-01-07 08:38 G 9975181.81 9975181.86 9975181.91 0.2685 0.2424

Earth 22599-01-07 08:38 G 9975181.81 9975181.86 9975181.91 0.2678 0.2434 *

Uranus 22599-03-05 04:48 G 9975238.53 9975238.70 9975238.86 0.0133 0.0004

Uranus 22599-06-01 09:21 G 9975326.73 9975326.89 9975327.05 0.0133 0.0021

Venus 22599-06-04 15:50 G 9975330.13 9975330.16 9975330.18 0.3693 0.3550

Uranus 22599-08-28 14:09 G 9975414.94 9975415.09 9975415.24 0.0133 0.0040

Uranus 22599-11-24 18:43 G 9975503.14 9975503.28 9975503.43 0.0133 0.0059

Uranus 22600-02-20 23:16 G 9975591.35 9975591.47 9975591.60 0.0133 0.0078

Uranus 22600-05-20 03:36 G 9975679.56 9975679.65 9975679.77 0.0133 0.0098

Mars 22600-06-21 09:36 G 9975711.89 9975711.90 9975711.92 0.1644 0.1630

Uranus 22600-08-16 08:24 G 9975767.78 9975767.85 9975767.93 0.0133 0.0115

Venus	22600-12-16 11:16 G	9975889.87	9975889.97	9975890.07	0.3678	0.2072
Saturn	22601-06-05 00:14 G	9976060.44	9976060.51	9976060.59	0.0271	0.0234
Saturn	22601-09-01 12:57 G	9976148.92	9976149.04	9976149.17	0.0271	0.0139
Saturn	22601-11-29 01:55 G	9976237.44	9976237.58	9976237.73	0.0271	0.0042
Saturn	22602-02-25 15:07 G	9976325.99	9976326.13	9976326.28	0.0272	0.0060
Saturn	22602-05-25 04:48 G	9976414.58	9976414.70	9976414.82	0.0272	0.0161
Mars	22602-05-28 02:09 G	9976417.54	9976417.59	9976417.64	0.1625	0.1503
Saturn	22602-08-21 18:43 G	9976503.25	9976503.28	9976503.31	0.0272	0.0266
Moon	22603-07-03 06:14 G	9976818.71	9976818.76	9976818.82	0.2648	0.2439
Earth	22603-07-03 06:57 G	9976818.73	9976818.79	9976818.85	0.2653	0.2334 *
Jupiter	22603-09-29 00:14 G	9976906.38	9976906.51	9976906.64	0.0523	0.0323
Jupiter	22603-12-28 00:14 G	9976996.42	9976996.51	9976996.60	0.0527	0.0435
Moon	22606-01-01 00:28 G	9977731.47	9977731.52	9977731.58	0.2675	0.2350
Earth	22606-01-01 01:12 G	9977731.49	9977731.55	9977731.62	0.2678	0.2209 *
Mars	22609-01-21 05:31 G	9978847.61	9978847.73	9978847.85	0.1909	0.0788
Jupiter	22609-05-17 03:07 G	9978963.49	9978963.63	9978963.77	0.0503	0.0027
Mars	22611-10-18 09:50 G	9979847.79	9979847.91	9979848.03	0.1629	0.0737
Jupiter	22615-07-18 00:00 G	9981216.47	9981216.50	9981216.54	0.0522	0.0505
Jupiter	22615-10-16 00:43 G	9981306.39	9981306.53	9981306.67	0.0526	0.0259
Saturn	22616-01-11 14:24 G	9981393.99	9981394.10	9981394.22	0.0288	0.0195
Saturn	22616-04-09 09:07 G	9981482.72	9981482.88	9981483.04	0.0288	0.0060
Moon	22616-07-05 06:28 G	9981569.63	9981569.77	9981569.90	0.2651	0.0257
Earth	22616-07-05 07:40 G	9981569.68	9981569.82	9981569.95	0.2653	0.0189 *
Saturn	22616-07-07 03:21 G	9981571.48	9981571.64	9981571.80	0.0288	0.0071
Saturn	22616-10-03 20:52 G	9981660.26	9981660.37	9981660.49	0.0287	0.0199
Mars	22618-06-13 08:38 G	9982277.73	9982277.86	9982277.99	0.1902	0.0547
Moon	22619-01-03 20:24 G	9982482.23	9982482.35	9982482.46	0.2680	0.0638
Earth	22619-01-03 21:07 G	9982482.27	9982482.38	9982482.50	0.2678	0.0597 *
Jupiter	22621-03-05 05:45 G	9983273.61	9983273.74	9983273.87	0.0504	0.0179
Mars	22621-03-09 17:45 G	9983278.10	9983278.24	9983278.37	0.1634	0.0048

Jupiter 22621-06-02 15:36 G 9983363.06 9983363.15 9983363.23 0.0501 0.0399

Neptune 22621-10-21 22:04 G 9983504.38 9983504.42 9983504.48 0.0089 0.0084

Neptune 22622-01-18 00:43 G 9983592.45 9983592.53 9983592.63 0.0089 0.0076

Neptune 22622-04-16 03:36 G 9983680.54 9983680.65 9983680.76 0.0089 0.0067

Neptune 22622-07-13 06:14 G 9983768.63 9983768.76 9983768.89 0.0089 0.0058

Neptune 22622-10-09 08:24 G 9983856.72 9983856.85 9983857.01 0.0089 0.0049

Neptune 22623-01-05 11:02 G 9983944.82 9983944.96 9983945.12 0.0089 0.0041

Neptune 22623-04-03 13:55 G 9984032.92 9984033.08 9984033.24 0.0089 0.0031

Neptune 22623-06-30 16:33 G 9984121.02 9984121.19 9984121.35 0.0089 0.0022

Neptune 22623-09-26 18:57 G 9984209.13 9984209.29 9984209.46 0.0089 0.0014

Neptune 22623-12-23 21:36 G 9984297.23 9984297.40 9984297.57 0.0089 0.0005

Neptune 22624-03-21 00:00 G 9984385.34 9984385.50 9984385.67 0.0089 0.0005

Neptune 22624-06-17 02:38 G 9984473.44 9984473.61 9984473.78 0.0089 0.0012

Neptune 22624-09-13 05:02 G 9984561.55 9984561.71 9984561.88 0.0089 0.0021

Neptune 22624-12-10 07:40 G 9984649.66 9984649.82 9984649.98 0.0089 0.0030

Neptune 22625-03-08 09:50 G 9984737.77 9984737.91 9984738.07 0.0089 0.0039

Neptune 22625-06-04 12:28 G 9984825.88 9984826.02 9984826.17 0.0089 0.0047

Neptune 22625-08-31 14:52 G 9984914.00 9984914.12 9984914.26 0.0089 0.0055

Neptune 22625-11-27 17:16 G 9985002.12 9985002.22 9985002.34 0.0089 0.0064

Neptune 22626-02-23 19:40 G 9985090.24 9985090.32 9985090.43 0.0089 0.0072

Neptune 22626-05-22 22:04 G 9985178.36 9985178.42 9985178.50 0.0089 0.0081

Neptune 22626-08-19 00:43 G 9985266.52 9985266.53 9985266.55 0.0089 0.0089

Jupiter 22627-08-04 00:14 G 9985616.35 9985616.51 9985616.67 0.0525 0.0072

Mars 22627-11-03 11:45 G 9985707.97 9985707.99 9985708.01 0.1895 0.1869

Moon 22629-07-08 06:43 G 9986320.68 9986320.78 9986320.89 0.2656 0.1689

Earth 22629-07-08 07:40 G 9986320.73 9986320.82 9986320.92 0.2653 0.1900 *

Mars 22630-07-31 01:40 G 9986708.45 9986708.57 9986708.69 0.1639 0.0779

Saturn 22630-10-23 03:07 G 9986792.59 9986792.63 9986792.67 0.0271 0.0256

Saturn 22631-01-19 15:36 G 9986881.04 9986881.15 9986881.27 0.0271 0.0162

Saturn 22631-04-18 04:33 G 9986969.55 9986969.69 9986969.84 0.0271 0.0065

Saturn 22631-07-15 18:00 G 9987058.10 9987058.25 9987058.39 0.0272 0.0037

Saturn 22631-10-12 07:26 G 9987146.68 9987146.81 9987146.94 0.0272 0.0138

Moon 22632-01-06 17:02 G 9987233.10 9987233.21 9987233.32 0.2684 0.0958

Earth 22632-01-06 17:16 G 9987233.11 9987233.22 9987233.34 0.2678 0.1082 *

Saturn 22632-01-08 21:07 G 9987235.32 9987235.38 9987235.45 0.0272 0.0243

Jupiter 22632-12-22 08:52 G 9987583.77 9987583.87 9987583.98 0.0505 0.0325

Jupiter 22633-03-21 18:28 G 9987673.15 9987673.27 9987673.39 0.0502 0.0251

Venus 22633-11-11 05:31 G 9987907.66 9987907.73 9987907.79 0.3692 0.3113

Jupiter 22639-05-22 22:48 G 9989926.29 9989926.45 9989926.60 0.0524 0.0135

Venus 22639-05-28 02:09 G 9989931.48 9989931.59 9989931.70 0.3692 0.1191

Uranus 22639-09-22 06:14 G 9990048.70 9990048.76 9990048.84 0.0145 0.0126

Uranus 22639-12-19 11:02 G 9990136.87 9990136.96 9990137.07 0.0145 0.0103

Mars 22639-12-21 09:50 G 9990138.86 9990138.91 9990138.95 0.1644 0.1529

Uranus 22640-03-16 16:04 G 9990225.05 9990225.17 9990225.30 0.0145 0.0080

Uranus 22640-06-12 21:07 G 9990313.24 9990313.38 9990313.52 0.0145 0.0057

Uranus 22640-09-09 02:09 G 9990401.44 9990401.59 9990401.74 0.0145 0.0034

Uranus 22640-12-06 07:12 G 9990489.65 9990489.80 9990489.95 0.0145 0.0010

Venus 22640-12-07 19:40 G 9990491.25 9990491.32 9990491.39 0.3679 0.2947

Uranus 22641-03-04 12:14 G 9990577.86 9990578.01 9990578.16 0.0145 0.0014

Uranus 22641-05-31 17:16 G 9990666.08 9990666.22 9990666.37 0.0145 0.0038

Uranus 22641-08-27 22:19 G 9990754.30 9990754.43 9990754.58 0.0145 0.0062

Uranus 22641-11-24 03:36 G 9990842.53 9990842.65 9990842.78 0.0145 0.0086

Mars 22641-11-26 02:09 G 9990844.58 9990844.59 9990844.61 0.1625 0.1612

Uranus 22642-02-20 08:52 G 9990930.78 9990930.87 9990930.98 0.0145 0.0111

Uranus 22642-05-19 14:09 G 9991019.04 9991019.09 9991019.15 0.0145 0.0135

Jupiter 22644-10-10 12:28 G 9991893.97 9991894.02 9991894.07 0.0506 0.0463

Venus 22644-12-10 22:33 G 9991955.32 9991955.44 9991955.56 0.3693 0.0651

Jupiter 22645-01-07 21:50 G 9991983.27 9991983.41 9991983.55 0.0503 0.0111

Saturn 22645-05-30 17:16 G 9992126.11 9992126.22 9992126.33 0.0289 0.0218

Saturn 22645-08-27 12:00 G 9992214.84 9992215.00 9992215.16 0.0288 0.0082

Saturn 22645-11-24 06:14 G 9992303.60 9992303.76 9992303.92 0.0288 0.0051

Saturn 22646-02-21 00:00 G 9992392.38 9992392.50 9992392.62 0.0288 0.0179

Venus 22646-06-23 16:19 G 9992515.06 9992515.18 9992515.29 0.3679 0.1150

Mars 22648-07-22 05:31 G 9993274.62 9993274.73 9993274.85 0.1909 0.0920

Moon 22649-07-03 12:00 G 9993620.91 9993621.00 9993621.09 0.2649 0.1990

Earth 22649-07-03 12:43 G 9993620.94 9993621.03 9993621.13 0.2653 0.1887 *

Venus 22650-06-26 18:28 G 9993979.19 9993979.27 9993979.36 0.3693 0.2417

Jupiter 22651-03-10 21:50 G 9994236.28 9994236.41 9994236.53 0.0523 0.0329

Mars 22651-04-18 10:04 G 9994274.80 9994274.92 9994275.03 0.1629 0.0849

Jupiter 22651-06-08 21:50 G 9994326.32 9994326.41 9994326.50 0.0526 0.0428

Moon 22652-01-02 05:31 G 9994533.65 9994533.73 9994533.81 0.2677 0.1962

Earth 22652-01-02 06:28 G 9994533.68 9994533.77 9994533.85 0.2678 0.1876 *

Venus 22652-01-07 13:12 G 9994538.93 9994539.05 9994539.17 0.3678 0.0756

Jupiter 22656-10-27 01:12 G 9996293.41 9996293.55 9996293.69 0.0504 0.0030

Venus 22657-07-23 10:19 G 9996562.85 9996562.93 9996563.01 0.3677 0.2727

Mars 22657-12-12 08:52 G 9996704.74 9996704.87 9996705.01 0.1903 0.0397

Saturn 22660-06-07 18:00 G 9997613.15 9997613.25 9997613.36 0.0271 0.0187

Saturn 22660-09-04 06:57 G 9997701.65 9997701.79 9997701.93 0.0271 0.0090

Mars 22660-09-07 18:00 G 9997705.11 9997705.25 9997705.39 0.1634 0.0093

Saturn 22660-12-01 19:55 G 9997790.19 9997790.33 9997790.48 0.0271 0.0011

Saturn 22661-02-28 09:21 G 9997878.76 9997878.89 9997879.03 0.0272 0.0110

Saturn 22661-05-27 23:02 G 9997967.37 9997967.46 9997967.55 0.0272 0.0213

Moon 22662-07-06 12:14 G 9998371.87 9998372.01 9998372.14 0.2651 0.0083

Earth 22662-07-06 13:12 G 9998371.92 9998372.05 9998372.19 0.2653 0.0263 *

Jupiter 22662-12-27 20:52 G 9998546.37 9998546.37 9998546.38 0.0522 0.0521

Jupiter 22663-03-27 21:36 G 9998636.26 9998636.40 9998636.54 0.0526 0.0244

Moon 22665-01-04 01:26 G 9999284.44 9999284.56 9999284.68 0.2680 0.0435

Earth 22665-01-04 02:24 G 9999284.48 9999284.60 9999284.72 0.2678 0.0255 *

Mars 22667-05-04 12:00 G 10000134.95 10000135.00 10000135.05 0.1895 0.1730

Jupiter 22668-08-15 04:33 G 10000603.56 10000603.69 10000603.82 0.0504 0.0171

Jupiter 22668-11-12 14:24 G 10000693.02 10000693.10 10000693.18 0.0501 0.0408

Mars 22670-01-29 01:55 G 10001135.45 10001135.58 10001135.70 0.1638 0.0670

Saturn 22674-10-17 15:50 G 10002858.11 10002858.16 10002858.23 0.0288 0.0265

Jupiter 22675-01-13 21:50 G 10002946.25 10002946.41 10002946.57 0.0525 0.0065

Saturn 22675-01-14 11:02 G 10002946.81 10002946.96 10002947.11 0.0288 0.0128

Saturn 22675-04-13 05:31 G 10003035.57 10003035.73 10003035.89 0.0288 0.0007

Moon 22675-07-09 12:28 G 10003122.95 10003123.02 10003123.09 0.2657 0.2279

Earth 22675-07-09 13:26 G 10003123.00 10003123.06 10003123.12 0.2653 0.2315 *

Saturn 22675-07-10 23:16 G 10003124.33 10003124.47 10003124.62 0.0287 0.0136

Saturn 22675-10-07 16:48 G 10003213.14 10003213.20 10003213.27 0.0287 0.0261

Moon 22678-01-06 22:19 G 10004035.33 10004035.43 10004035.53 0.2685 0.1463

Earth 22678-01-06 22:33 G 10004035.34 10004035.44 10004035.54 0.2678 0.1423 *

Mars 22679-06-21 09:50 G 10004565.85 10004565.91 10004565.98 0.1644 0.1420

Jupiter 22680-06-03 07:12 G 10004913.70 10004913.80 10004913.91 0.0505 0.0323

Jupiter 22680-08-31 16:48 G 10005003.08 10005003.20 10005003.32 0.0502 0.0252

Uranus 22681-07-17 01:12 G 10005322.54 10005322.55 10005322.58 0.0133 0.0132

Uranus 22681-10-13 06:14 G 10005410.68 10005410.76 10005410.86 0.0133 0.0112

Uranus 22682-01-09 11:16 G 10005498.86 10005498.97 10005499.09 0.0133 0.0092

Uranus 22682-04-07 16:04 G 10005587.04 10005587.17 10005587.32 0.0133 0.0072

Uranus 22682-07-04 21:07 G 10005675.23 10005675.38 10005675.53 0.0133 0.0052

Uranus 22682-10-01 02:09 G 10005763.43 10005763.59 10005763.74 0.0133 0.0033

Uranus 22682-12-28 06:57 G 10005851.63 10005851.79 10005851.95 0.0133 0.0013

Uranus 22683-03-26 11:45 G 10005939.82 10005939.99 10005940.15 0.0133 0.0007

Uranus 22683-06-22 16:19 G 10006028.02 10006028.18 10006028.34 0.0133 0.0026

Uranus 22683-09-18 20:52 G 10006116.23 10006116.37 10006116.53 0.0133 0.0045

Uranus 22683-12-16 01:40 G 10006204.43 10006204.57 10006204.71 0.0133 0.0064

Uranus 22684-03-13 06:14 G 10006292.64 10006292.76 10006292.89 0.0133 0.0083

Uranus 22684-06-09 10:48 G 10006380.86 10006380.95 10006381.06 0.0133 0.0102

Uranus 22684-09-05 15:21 G 10006469.08 10006469.14 10006469.21 0.0133 0.0120

Jupiter 22686-11-01 21:21 G 10007256.24 10007256.39 10007256.55 0.0524 0.0124

Mars 22688-01-21 06:00 G 10007701.64 10007701.75 10007701.86 0.1909 0.1070

Saturn 22689-10-25 20:24 G 10008345.26 10008345.35 10008345.44 0.0271 0.0212

Saturn 22690-01-22 09:07 G 10008433.75 10008433.88 10008434.02 0.0271 0.0116

Saturn 22690-04-20 22:19 G 10008522.28 10008522.43 10008522.58 0.0272 0.0017

Venus 22690-06-18 04:19 G 10008580.59 10008580.68 10008580.77 0.3691 0.2487

Saturn 22690-07-18 11:31 G 10008610.84 10008610.98 10008611.13 0.0272 0.0085

Saturn 22690-10-15 01:12 G 10008699.45 10008699.55 10008699.66 0.0272 0.0188

Mars 22690-10-17 10:19 G 10008701.82 10008701.93 10008702.04 0.1629 0.0962

Jupiter 22692-03-22 10:33 G 10009223.89 10009223.94 10009223.99 0.0506 0.0467

Jupiter 22692-06-19 19:40 G 10009313.18 10009313.32 10009313.46 0.0503 0.0106

Moon 22695-07-04 17:31 G 10010423.12 10010423.23 10010423.35 0.2649 0.1548

Earth 22695-07-04 18:28 G 10010423.16 10010423.27 10010423.39 0.2653 0.1446 *

Venus 22696-01-02 00:57 G 10010604.42 10010604.54 10010604.66 0.3692 0.0586

Mars 22697-06-12 09:07 G 10011131.75 10011131.88 10011132.02 0.1902 0.0258

Venus 22697-07-14 18:28 G 10011164.18 10011164.27 10011164.36 0.3679 0.2367

Moon 22698-01-02 10:33 G 10011335.85 10011335.94 10011336.04 0.2678 0.1658

Earth 22698-01-02 11:31 G 10011335.88 10011335.98 10011336.08 0.2678 0.1539 *

Jupiter 22698-08-20 19:40 G 10011566.20 10011566.32 10011566.45 0.0523 0.0330

Jupiter 22698-11-18 19:55 G 10011656.24 10011656.33 10011656.42 0.0526 0.0428

Mars 22700-03-09 18:00 G 10012132.12 10012132.25 10012132.39 0.1634 0.0198

Venus 22701-07-18 21:21 G 10012628.27 10012628.39 10012628.50 0.3693 0.1245

Neptune 22702-10-28 13:26 G 10013095.04 10013095.06 10013095.11 0.0088 0.0086

Neptune 22703-01-24 15:07 G 10013183.08 10013183.13 10013183.21 0.0088 0.0079

Venus 22703-01-29 15:07 G 10013188.01 10013188.13 10013188.25 0.3678 0.0537

Neptune 22703-04-22 16:48 G 10013271.13 10013271.20 10013271.30 0.0088 0.0071

Neptune 22703-07-19 18:28 G 10013359.19 10013359.27 10013359.39 0.0088 0.0064

Neptune 22703-10-15 20:38 G 10013447.25 10013447.36 10013447.47 0.0088 0.0056

Neptune 22704-01-11 22:19 G 10013535.31 10013535.43 10013535.55 0.0088 0.0049

Saturn 22704-03-06 18:43 G 10013590.27 10013590.28 10013590.29 0.0289 0.0288

Jupiter 22704-04-08 23:02 G 10013623.32 10013623.46 10013623.60 0.0504 0.0037

Neptune 22704-04-09 00:00 G 10013623.38 10013623.50 10013623.64 0.0088 0.0042 *

Saturn 22704-06-03 13:40 G 10013678.94 10013679.07 10013679.22 0.0288 0.0150

Neptune 22704-07-06 01:55 G 10013711.44 10013711.58 10013711.71 0.0088 0.0035

Saturn 22704-08-31 08:24 G 10013767.69 10013767.85 10013768.01 0.0288 0.0016

Neptune 22704-10-02 03:36 G 10013799.51 10013799.65 10013799.79 0.0088 0.0027

Saturn 22704-11-28 02:24 G 10013856.45 10013856.60 10013856.75 0.0288 0.0115

Neptune 22704-12-29 05:16 G 10013887.58 10013887.72 10013887.87 0.0088 0.0020

Saturn 22705-02-24 19:55 G 10013945.25 10013945.33 10013945.42 0.0287 0.0242

Neptune 22705-03-27 07:12 G 10013975.65 10013975.80 10013975.95 0.0088 0.0012

Neptune 22705-06-23 09:07 G 10014063.73 10014063.88 10014064.03 0.0088 0.0005

Neptune 22705-09-19 10:48 G 10014151.80 10014151.95 10014152.10 0.0088 0.0003

Neptune 22705-12-16 12:43 G 10014239.88 10014240.03 10014240.18 0.0088 0.0010

Neptune 22706-03-14 14:24 G 10014327.96 10014328.10 10014328.25 0.0088 0.0018

Neptune 22706-06-10 16:04 G 10014416.04 10014416.17 10014416.32 0.0088 0.0026

Neptune 22706-09-06 18:00 G 10014504.12 10014504.25 10014504.39 0.0088 0.0033

Mars 22706-11-03 12:14 G 10014561.94 10014562.01 10014562.08 0.1896 0.1594

Neptune 22706-12-03 19:55 G 10014592.20 10014592.33 10014592.46 0.0088 0.0040

Venus 22707-02-01 17:16 G 10014652.15 10014652.22 10014652.28 0.3693 0.2980

Neptune 22707-03-01 21:36 G 10014680.28 10014680.40 10014680.53 0.0088 0.0048

Neptune 22707-05-28 23:31 G 10014768.37 10014768.48 10014768.60 0.0088 0.0055

Pluto 22707-08-13 20:09 G 10014845.29 10014845.34 10014845.39 0.0070 0.0064

Neptune 22707-08-25 01:12 G 10014856.46 10014856.55 10014856.67 0.0088 0.0063

Pluto 22707-11-09 20:38 G 10014933.29 10014933.36 10014933.45 0.0070 0.0055

Neptune 22707-11-21 03:21 G 10014944.55 10014944.64 10014944.73 0.0088 0.0071

Pluto 22708-02-05 21:21 G 10015021.29 10015021.39 10015021.49 0.0070 0.0046

Neptune 22708-02-17 05:02 G 10015032.65 10015032.71 10015032.79 0.0088 0.0078

Pluto 22708-05-03 21:50 G 10015109.30 10015109.41 10015109.53 0.0070 0.0036

Neptune 22708-05-15 06:43 G 10015120.77 10015120.78 10015120.83 0.0088 0.0087

Moon 22708-07-07 18:00 G 10015174.11 10015174.25 10015174.38 0.2653 0.0578

Earth 22708-07-07 18:57 G 10015174.16 10015174.29 10015174.43 0.2653 0.0691 *

Pluto 22708-07-30 22:33 G 10015197.32 10015197.44 10015197.56 0.0070 0.0027

Venus 22708-08-14 12:00 G 10015211.89 10015212.00 10015212.12 0.3678 0.1388

Pluto 22708-10-26 23:02 G 10015285.34 10015285.46 10015285.59 0.0070 0.0018

Pluto 22709-01-22 23:45 G 10015373.36 10015373.49 10015373.62 0.0071 0.0008

Pluto 22709-04-21 00:28 G 10015461.38 10015461.52 10015461.65 0.0071 0.0003

Pluto 22709-07-18 00:57 G 10015549.41 10015549.54 10015549.67 0.0071 0.0012

Mars 22709-07-31 02:09 G 10015562.46 10015562.59 10015562.71 0.1639 0.0559

Pluto 22709-10-14 01:40 G 10015637.44 10015637.57 10015637.69 0.0071 0.0021

Pluto 22710-01-10 02:09 G 10015725.48 10015725.59 10015725.71 0.0071 0.0031

Pluto 22710-04-08 02:38 G 10015813.51 10015813.61 10015813.73 0.0071 0.0041

Pluto 22710-07-05 03:07 G 10015901.56 10015901.63 10015901.74 0.0071 0.0052

Jupiter 22710-09-07 19:12 G 10015966.16 10015966.30 10015966.45 0.0525 0.0239

Pluto 22710-10-01 03:50 G 10015989.61 10015989.66 10015989.74 0.0071 0.0061

Pluto 22710-12-28 04:33 G 10016077.69 10016077.69 10016077.71 0.0071 0.0071

Moon 22711-01-06 06:43 G 10016086.66 10016086.78 10016086.90 0.2681 0.0048

Earth 22711-01-06 07:26 G 10016086.69 10016086.81 10016086.93 0.2678 0.0115 *

Venus 22714-02-28 09:21 G 10017235.85 10017235.89 10017235.94 0.3677 0.3392

Jupiter 22716-01-27 02:38 G 10017933.48 10017933.61 10017933.74 0.0505 0.0176

Jupiter 22716-04-25 12:14 G 10018022.93 10018023.01 10018023.10 0.0501 0.0405

Mars 22718-12-21 10:04 G 10018992.85 10018992.92 10018993.00 0.1643 0.1309

Saturn 22719-03-15 23:02 G 10019077.39 10019077.46 10019077.53 0.0271 0.0235

Saturn 22719-06-12 11:45 G 10019165.86 10019165.99 10019166.11 0.0271 0.0140

Saturn 22719-09-09 00:43 G 10019254.38 10019254.53 10019254.67 0.0271 0.0043

Saturn 22719-12-06 13:55 G 10019342.93 10019343.08 10019343.22 0.0272 0.0058

Saturn 22720-03-04 03:21 G 10019431.52 10019431.64 10019431.76 0.0272 0.0160

Saturn 22720-05-31 17:02 G 10019520.19 10019520.21 10019520.25 0.0272 0.0265

Moon 22721-07-10 18:14 G 10019925.22 10019925.26 10019925.29 0.2657 0.2543

Jupiter 22722-06-26 18:57 G 10020276.13 10020276.29 10020276.45 0.0525 0.0050

Uranus 22723-07-17 08:09 G 10020661.84 10020661.84 10020661.87 0.0145 0.0145

Uranus 22723-10-13 13:12 G 10020749.97 10020750.05 10020750.13 0.0145 0.0122

Moon 22724-01-09 03:36 G 10020837.55 10020837.65 10020837.74 0.2685 0.1687

Earth 22724-01-09 03:36 G 10020837.56 10020837.65 10020837.74 0.2678 0.1775 *

Uranus 22724-01-09 18:00 G 10020838.15 10020838.25 10020838.37 0.0145 0.0099

Uranus 22724-04-06 22:48 G 10020926.33 10020926.45 10020926.59 0.0145 0.0077

Uranus 22724-07-04 04:04 G 10021014.53 10021014.67 10021014.81 0.0145 0.0053

Uranus 22724-09-30 08:52 G 10021102.73 10021102.87 10021103.02 0.0145 0.0030

Uranus 22724-12-27 14:09 G 10021190.93 10021191.09 10021191.24 0.0145 0.0006

Uranus 22725-03-25 19:12 G 10021279.15 10021279.30 10021279.45 0.0145 0.0018

Uranus 22725-06-22 00:14 G 10021367.37 10021367.51 10021367.66 0.0145 0.0042

Uranus 22725-09-18 05:31 G 10021455.59 10021455.73 10021455.86 0.0145 0.0066

Uranus 22725-12-15 10:33 G 10021543.83 10021543.94 10021544.07 0.0145 0.0091

Uranus 22726-03-13 15:50 G 10021632.07 10021632.16 10021632.26 0.0145 0.0115

Uranus 22726-06-09 21:07 G 10021720.35 10021720.38 10021720.43 0.0145 0.0140

Mars 22727-07-23 06:28 G 10022128.66 10022128.77 10022128.87 0.1909 0.1224

Jupiter 22727-11-15 06:00 G 10022243.65 10022243.75 10022243.86 0.0505 0.0315

Jupiter 22728-02-12 15:36 G 10022333.03 10022333.15 10022333.27 0.0502 0.0261

Mars 22730-04-18 10:19 G 10023128.83 10023128.93 10023129.04 0.1629 0.1078

Saturn 22733-10-21 12:43 G 10024410.91 10024411.03 10024411.15 0.0288 0.0197

Saturn 22734-01-18 07:26 G 10024499.65 10024499.81 10024499.97 0.0288 0.0062

Jupiter 22734-04-14 18:57 G 10024586.13 10024586.29 10024586.45 0.0524 0.0131

Saturn 22734-04-17 01:40 G 10024588.41 10024588.57 10024588.72 0.0287 0.0070

Saturn 22734-07-14 19:12 G 10024677.19 10024677.30 10024677.42 0.0287 0.0198

Mars 22736-12-12 09:36 G 10025558.76 10025558.90 10025559.03 0.1903 0.0121

Jupiter 22739-09-03 09:07 G 10026553.82 10026553.88 10026553.93 0.0506 0.0463

Mars 22739-09-08 18:14 G 10026559.13 10026559.26 10026559.40 0.1633 0.0309

Jupiter 22739-12-01 18:14 G 10026643.12 10026643.26 10026643.40 0.0503 0.0108

Moon 22741-07-05 23:16 G 10027225.35 10027225.47 10027225.60 0.2649 0.1167

Earth 22741-07-06 00:14 G 10027225.39 10027225.51 10027225.64 0.2653 0.1008 *

Moon 22744-01-04 15:36 G 10028138.05 10028138.15 10028138.26 0.2678 0.1347

Earth 22744-01-04 16:33 G 10028138.09 10028138.19 10028138.30 0.2678 0.1205 *

Jupiter 22746-01-31 18:28 G 10028896.14 10028896.27 10028896.40 0.0523 0.0320

Jupiter 22746-05-01 18:43 G 10028986.19 10028986.28 10028986.36 0.0527 0.0439

Mars 22746-05-04 12:43 G 10028988.94 10028989.03 10028989.11 0.1896 0.1437

Venus 22747-01-24 03:07 G 10029253.53 10029253.63 10029253.74 0.3692 0.1865

Saturn 22748-08-02 00:57 G 10029809.51 10029809.54 10029809.58 0.0271 0.0263

Venus 22748-08-05 20:52 G 10029813.35 10029813.37 10029813.40 0.3679 0.3555

Saturn 22748-10-29 13:40 G 10029897.96 10029898.07 10029898.18 0.0271 0.0168

Saturn 22749-01-26 02:38 G 10029986.47 10029986.61 10029986.75 0.0272 0.0071

Mars 22749-01-29 02:09 G 10029989.46 10029989.59 10029989.72 0.1638 0.0451

Saturn 22749-04-24 15:36 G 10030075.01 10030075.15 10030075.30 0.0272 0.0031

Saturn 22749-07-22 05:16 G 10030163.59 10030163.72 10030163.85 0.0272 0.0132

Saturn 22749-10-18 18:57 G 10030252.22 10030252.29 10030252.36 0.0272 0.0236

Jupiter 22751-09-19 21:21 G 10030953.25 10030953.39 10030953.53 0.0504 0.0039

Venus 22752-08-08 23:45 G 10031277.37 10031277.49 10031277.61 0.3692 0.0055

Venus 22754-02-19 17:16 G 10031837.11 10031837.22 10031837.33 0.3679 0.1779

Moon 22754-07-08 23:31 G 10031976.36 10031976.48 10031976.61 0.2655 0.0964

Earth 22754-07-09 00:43 G 10031976.41 10031976.53 10031976.66 0.2653 0.1111 *

Moon 22757-01-06 12:00 G 10032888.88 10032889.00 10032889.12 0.2683 0.0337

Earth 22757-01-06 12:43 G 10032888.91 10032889.03 10032889.15 0.2678 0.0443 *

Jupiter 22758-02-17 17:16 G 10033296.08 10033296.22 10033296.37 0.0525 0.0239

Venus 22758-02-22 19:55 G 10033301.23 10033301.33 10033301.43 0.3693 0.1823

Mars 22758-06-21 10:19 G 10033419.84 10033419.93 10033420.02 0.1643 0.1202

Venus 22759-09-05 13:55 G 10033860.96 10033861.08 10033861.21 0.3678 0.0128

Saturn 22763-03-10 15:07 G 10035143.03 10035143.13 10035143.24 0.0289 0.0222

Saturn 22763-06-07 10:04 G 10035231.76 10035231.92 10035232.08 0.0288 0.0085

Jupiter 22763-07-09 00:28 G 10035263.39 10035263.52 10035263.66 0.0505 0.0181

Saturn 22763-09-04 04:19 G 10035320.52 10035320.68 10035320.84 0.0288 0.0048

Venus 22763-09-08 15:50 G 10035325.13 10035325.16 10035325.19 0.3693 0.3541

Jupiter 22763-10-06 10:19 G 10035352.85 10035352.93 10035353.02 0.0502 0.0400

Saturn 22763-12-01 22:19 G 10035409.30 10035409.43 10035409.55 0.0288 0.0177

Venus 22765-03-21 11:02 G 10035884.86 10035884.96 10035885.06 0.3678 0.2029

Uranus 22765-08-07 08:24 G 10036023.80 10036023.85 10036023.89 0.0133 0.0127

Uranus 22765-11-03 13:12 G 10036111.96 10036112.05 10036112.15 0.0133 0.0107

Uranus 22766-01-30 18:14 G 10036200.14 10036200.26 10036200.39 0.0133 0.0087

Uranus 22766-04-28 23:16 G 10036288.33 10036288.47 10036288.61 0.0133 0.0067

Uranus 22766-07-26 03:50 G 10036376.52 10036376.66 10036376.82 0.0133 0.0048

Uranus 22766-10-22 08:52 G 10036464.71 10036464.87 10036465.03 0.0133 0.0028

Uranus 22767-01-18 13:40 G 10036552.91 10036553.07 10036553.24 0.0133 0.0009

Mars 22767-01-21 06:28 G 10036555.67 10036555.77 10036555.86 0.1909 0.1345

Uranus 22767-04-16 18:28 G 10036641.11 10036641.27 10036641.43 0.0133 0.0011

Uranus 22767-07-13 23:16 G 10036729.31 10036729.47 10036729.63 0.0133 0.0030

Uranus 22767-10-10 03:50 G 10036817.52 10036817.66 10036817.81 0.0133 0.0050

Uranus 22768-01-06 08:38 G 10036905.72 10036905.86 10036906.00 0.0133 0.0068

Uranus 22768-04-03 13:12 G 10036993.93 10036994.05 10036994.17 0.0133 0.0087

Uranus 22768-06-30 17:31 G 10037082.15 10037082.23 10037082.34 0.0133 0.0106

Uranus 22768-09-26 22:19 G 10037170.38 10037170.43 10037170.49 0.0133 0.0124

Mars 22769-10-17 10:33 G 10037555.85 10037555.94 10037556.04 0.1629 0.1189

Jupiter 22769-12-06 16:48 G 10037606.04 10037606.20 10037606.36 0.0524 0.0047

Moon 22770-01-09 08:38 G 10037639.79 10037639.86 10037639.93 0.2685 0.2172

Earth 22770-01-09 08:52 G 10037639.80 10037639.87 10037639.94 0.2678 0.2123 *

Jupiter 22775-04-27 04:04 G 10039573.57 10039573.67 10039573.78 0.0506 0.0318

Jupiter 22775-07-25 13:40 G 10039662.95 10039663.07 10039663.19 0.0502 0.0258

Mars 22776-06-12 09:50 G 10039985.77 10039985.91 10039986.04 0.1903 0.0042

Moon 22777-01-02 01:12 G 10040189.53 10040189.55 10040189.57 0.2675 0.2626

Earth 22777-01-02 01:55 G 10040189.54 10040189.58 10040189.62 0.2678 0.2472 *

Saturn 22778-03-18 16:04 G 10040630.08 10040630.17 10040630.28 0.0271 0.0192

Saturn 22778-06-15 05:02 G 10040718.58 10040718.71 10040718.85 0.0271 0.0095

Saturn 22778-09-11 18:14 G 10040807.11 10040807.26 10040807.40 0.0271 0.0008

Saturn 22778-12-09 07:26 G 10040895.67 10040895.81 10040895.95 0.0272 0.0105

Saturn 22779-03-07 21:07 G 10040984.29 10040984.38 10040984.48 0.0272 0.0208

Mars 22779-03-09 18:28 G 10040986.14 10040986.27 10040986.40 0.1633 0.0425

Jupiter 22781-09-24 16:04 G 10041916.02 10041916.17 10041916.33 0.0524 0.0144

Mars 22785-11-02 12:57 G 10043415.94 10043416.04 10043416.14 0.1896 0.1286

Neptune 22786-04-22 18:43 G 10043587.28 10043587.28 10043587.29 0.0089 0.0089

Neptune 22786-07-19 21:07 G 10043675.32 10043675.38 10043675.47 0.0089 0.0081

Neptune 22786-10-15 23:45 G 10043763.40 10043763.49 10043763.61 0.0089 0.0072

Neptune 22787-01-12 02:38 G 10043851.49 10043851.61 10043851.73 0.0089 0.0062

Jupiter 22787-02-13 07:40 G 10043883.77 10043883.82 10043883.88 0.0506 0.0456

Neptune 22787-04-10 05:16 G 10043939.59 10043939.72 10043939.86 0.0089 0.0053

Jupiter 22787-05-13 17:02 G 10043973.07 10043973.21 10043973.35 0.0503 0.0117

Moon 22787-07-07 05:02 G 10044027.58 10044027.71 10044027.85 0.2650 0.0643

Earth 22787-07-07 06:00 G 10044027.62 10044027.75 10044027.89 0.2654 0.0573 *

Neptune 22787-07-07 07:55 G 10044027.69 10044027.83 10044027.98 0.0089 0.0045 *

Neptune 22787-10-03 10:19 G 10044115.79 10044115.93 10044116.09 0.0089 0.0036

Neptune 22787-12-30 12:57 G 10044203.89 10044204.04 10044204.21 0.0089 0.0027

Neptune 22788-03-27 15:36 G 10044291.99 10044292.15 10044292.32 0.0089 0.0018

Neptune 22788-06-23 18:14 G 10044380.09 10044380.26 10044380.43 0.0089 0.0010

Mars 22788-07-30 02:24 G 10044416.47 10044416.60 10044416.73 0.1638 0.0338

Neptune 22788-09-19 20:52 G 10044468.20 10044468.37 10044468.54 0.0089 0.0002

Neptune 22788-12-16 23:16 G 10044556.31 10044556.47 10044556.64 0.0089 0.0008

Neptune 22789-03-15 01:55 G 10044644.41 10044644.58 10044644.74 0.0089 0.0017

Neptune 22789-06-11 04:19 G 10044732.52 10044732.68 10044732.84 0.0089 0.0025

Neptune 22789-09-07 06:43 G 10044820.63 10044820.78 10044820.94 0.0089 0.0034

Neptune 22789-12-04 09:07 G 10044908.74 10044908.88 10044909.04 0.0089 0.0043

Moon 22790-01-04 20:52 G 10044940.26 10044940.37 10044940.48 0.2678 0.0959

Earth 22790-01-04 21:50 G 10044940.29 10044940.41 10044940.52 0.2678 0.0871 *

Neptune 22790-03-02 11:31 G 10044996.86 10044996.98 10044997.13 0.0089 0.0051

Neptune 22790-05-29 14:09 G 10045084.97 10045085.09 10045085.22 0.0089 0.0059

Neptune 22790-08-25 16:48 G 10045173.09 10045173.20 10045173.31 0.0089 0.0068

Neptune 22790-11-21 18:57 G 10045261.22 10045261.29 10045261.39 0.0089 0.0076

Neptune 22791-02-17 21:21 G 10045349.35 10045349.39 10045349.45 0.0089 0.0085

Saturn 22792-07-27 14:09 G 10045875.03 10045875.09 10045875.15 0.0288 0.0268

Saturn 22792-10-24 09:07 G 10045963.73 10045963.88 10045964.03 0.0288 0.0131

Saturn 22793-01-21 03:36 G 10046052.49 10046052.65 10046052.81 0.0288 0.0003

Saturn 22793-04-19 21:36 G 10046141.26 10046141.40 10046141.54 0.0287 0.0133

Pluto 22793-06-27 04:48 G 10046209.70 10046209.70 10046209.71 0.0074 0.0074

Jupiter 22793-07-13 16:04 G 10046226.04 10046226.17 10046226.29 0.0523 0.0327

Saturn 22793-07-17 15:07 G 10046230.06 10046230.13 10046230.20 0.0287 0.0259

Pluto 22793-09-23 07:26 G 10046297.69 10046297.81 10046297.93 0.0074 0.0057

Jupiter 22793-10-11 16:04 G 10046316.09 10046316.17 10046316.27 0.0527 0.0434

Pluto 22793-12-20 09:50 G 10046385.75 10046385.91 10046386.08 0.0073 0.0041

Pluto 22794-03-18 12:14 G 10046473.84 10046474.01 10046474.21 0.0073 0.0025

Pluto 22794-06-14 14:52 G 10046561.93 10046562.12 10046562.32 0.0073 0.0008

Pluto 22794-09-10 17:31 G 10046650.03 10046650.23 10046650.43 0.0073 0.0008

Pluto 22794-12-07 19:40 G 10046738.15 10046738.32 10046738.52 0.0073 0.0024

Pluto 22795-03-05 22:04 G 10046826.27 10046826.42 10046826.60 0.0073 0.0040

Pluto 22795-06-02 00:28 G 10046914.41 10046914.52 10046914.66 0.0073 0.0056

Pluto 22795-08-29 02:38 G 10047002.60 10047002.61 10047002.67 0.0073 0.0072

Mars 22797-12-20 10:33 G 10047846.84 10047846.94 10047847.04 0.1643 0.1097

Venus 22798-02-14 05:16 G 10047902.66 10047902.72 10047902.78 0.3691 0.3184

Jupiter 22799-03-01 19:55 G 10048283.19 10048283.33 10048283.47 0.0504 0.0036

Moon 22800-07-09 05:16 G 10048778.60 10048778.72 10048778.84 0.2656 0.1365

Earth 22800-07-09 06:28 G 10048778.66 10048778.77 10048778.88 0.2653 0.1537 *

Moon 22803-01-07 17:16 G 10049691.11 10049691.22 10049691.34 0.2684 0.0711

Earth 22803-01-07 17:45 G 10049691.13 10049691.24 10049691.36 0.2678 0.0784 *

Venus 22803-08-31 01:55 G 10049926.47 10049926.58 10049926.70 0.3692 0.1252

Venus 22805-03-12 19:40 G 10050486.25 10050486.32 10050486.39 0.3679 0.2981

Jupiter 22805-05-01 15:21 G 10050536.12 10050536.14 10050536.17 0.0522 0.0515

Jupiter 22805-07-30 16:19 G 10050626.04 10050626.18 10050626.32 0.0526 0.0251

Mars 22806-07-22 06:43 G 10050982.70 10050982.78 10050982.87 0.1910 0.1503

Saturn 22807-08-05 17:45 G 10051362.17 10051362.24 10051362.33 0.0271 0.0223

Uranus 22807-08-06 15:07 G 10051363.10 10051363.13 10051363.18 0.0145 0.0140

Saturn 22807-11-02 06:28 G 10051450.65 10051450.77 10051450.90 0.0271 0.0127

Uranus 22807-11-02 20:09 G 10051451.25 10051451.34 10051451.43 0.0145 0.0117

Saturn 22808-01-29 19:40 G 10051539.17 10051539.32 10051539.46 0.0272 0.0029

Uranus 22808-01-30 00:57 G 10051539.43 10051539.54 10051539.66 0.0145 0.0095 *

Uranus 22808-04-27 06:00 G 10051627.62 10051627.75 10051627.88 0.0145 0.0071

Saturn 22808-04-27 08:52 G 10051627.73 10051627.87 10051628.01 0.0272 0.0073 *

Uranus 22808-07-24 10:48 G 10051715.81 10051715.95 10051716.10 0.0145 0.0048

Saturn 22808-07-24 22:19 G 10051716.32 10051716.43 10051716.55 0.0272 0.0176

Uranus 22808-10-20 15:50 G 10051804.01 10051804.16 10051804.31 0.0145 0.0025

Uranus 22809-01-16 20:52 G 10051892.22 10051892.37 10051892.53 0.0145 0.0004

Venus 22809-03-15 22:33 G 10051950.32 10051950.44 10051950.56 0.3693 0.0625

Uranus 22809-04-15 01:55 G 10051980.44 10051980.58 10051980.74 0.0145 0.0024

Mars 22809-04-17 10:48 G 10051982.87 10051982.95 10051983.03 0.1629 0.1301

Uranus 22809-07-12 07:12 G 10052068.66 10052068.80 10052068.95 0.0145 0.0047

Uranus 22809-10-08 12:14 G 10052156.88 10052157.01 10052157.15 0.0145 0.0071

Uranus 22810-01-04 17:31 G 10052245.12 10052245.23 10052245.35 0.0145 0.0095

Uranus 22810-04-02 22:33 G 10052333.37 10052333.44 10052333.54 0.0145 0.0121

Uranus 22810-06-30 04:19 G 10052421.67 10052421.68 10052421.69 0.0145 0.0145

Venus 22810-09-26 16:04 G 10052510.06 10052510.17 10052510.29 0.3679 0.1186

Jupiter 22810-12-18 23:02 G 10052593.33 10052593.46 10052593.59 0.0505 0.0178

Jupiter 22811-03-18 08:38 G 10052682.78 10052682.86 10052682.95 0.0501 0.0400

Venus 22814-09-29 18:28 G 10053974.18 10053974.27 10053974.36 0.3693 0.2399

Mars 22815-12-12 10:04 G 10054412.79 10054412.92 10054413.06 0.1903 0.0186

Moon 22816-01-10 14:09 G 10054442.04 10054442.09 10054442.13 0.2684 0.2453

Earth 22816-01-10 13:55 G 10054442.04 10054442.08 10054442.13 0.2678 0.2477 *

Venus 22816-04-11 12:57 G 10054533.92 10054534.04 10054534.16 0.3678 0.0709

Jupiter 22817-05-18 14:52 G 10054935.96 10054936.12 10054936.29 0.0524 0.0053

Mars 22818-09-07 18:43 G 10055413.15 10055413.28 10055413.41 0.1633 0.0535

Moon 22820-07-04 10:33 G 10056078.87 10056078.94 10056079.01 0.2647 0.2283

Earth 22820-07-04 11:16 G 10056078.90 10056078.97 10056079.03 0.2654 0.2295 *

Venus 22821-10-26 10:04 G 10056557.83 10056557.92 10056558.00 0.3678 0.2671

Saturn 22822-03-13 11:02 G 10056695.83 10056695.96 10056696.10 0.0289 0.0159

Saturn 22822-06-10 05:45 G 10056784.58 10056784.74 10056784.90 0.0288 0.0024

Saturn 22822-09-06 23:45 G 10056873.35 10056873.49 10056873.64 0.0288 0.0108

Jupiter 22822-10-07 02:09 G 10056903.49 10056903.59 10056903.70 0.0506 0.0321

Saturn 22822-12-04 17:31 G 10056962.14 10056962.23 10056962.32 0.0288 0.0235

Moon 22823-01-03 06:14 G 10056991.69 10056991.76 10056991.82 0.2675 0.2178

Earth 22823-01-03 06:57 G 10056991.72 10056991.79 10056991.86 0.2678 0.2143 *

Jupiter 22823-01-04 11:45 G 10056992.87 10056992.99 10056993.11 0.0503 0.0256

Mars 22825-05-03 13:12 G 10057842.94 10057843.05 10057843.15 0.1896 0.1161

Mars 22828-01-29 02:38 G 10058843.47 10058843.61 10058843.74 0.1638 0.0228

Jupiter 22829-03-06 14:09 G 10059245.94 10059246.09 10059246.25 0.0523 0.0142

Moon 22833-07-07 10:48 G 10060829.81 10060829.95 10060830.09 0.2652 0.0353

Earth 22833-07-07 11:45 G 10060829.86 10060829.99 10060830.13 0.2654 0.0154 *

Jupiter 22834-07-26 06:00 G 10061213.69 10061213.75 10061213.80 0.0507 0.0458

Jupiter 22834-10-23 15:07 G 10061302.99 10061303.13 10061303.27 0.0503 0.0116

Moon 22836-01-06 01:55 G 10061742.47 10061742.58 10061742.70 0.2679 0.0699

Earth 22836-01-06 02:52 G 10061742.50 10061742.62 10061742.74 0.2678 0.0531 *

Saturn 22836-12-22 20:38 G 10062094.30 10062094.36 10062094.42 0.0271 0.0245

Saturn 22837-03-21 09:07 G 10062182.77 10062182.88 10062183.01 0.0271 0.0150

Saturn 22837-06-17 22:04 G 10062271.28 10062271.42 10062271.57 0.0271 0.0053

Mars 22837-06-20 10:48 G 10062273.84 10062273.95 10062274.05 0.1643 0.0982

Saturn 22837-09-14 11:16 G 10062359.83 10062359.97 10062360.12 0.0271 0.0048

Saturn 22837-12-12 00:43 G 10062448.41 10062448.53 10062448.65 0.0272 0.0150

Saturn 22838-03-10 14:24 G 10062537.05 10062537.10 10062537.16 0.0272 0.0254

Jupiter 22840-12-23 13:26 G 10063555.93 10063556.06 10063556.18 0.0522 0.0335

Jupiter 22841-03-23 13:40 G 10063645.98 10063646.07 10063646.16 0.0526 0.0423

Mars 22846-01-20 07:12 G 10065409.73 10065409.80 10065409.86 0.1910 0.1652

Moon 22846-07-10 11:02 G 10065580.86 10065580.96 10065581.06 0.2656 0.1850

Earth 22846-07-10 12:14 G 10065580.92 10065581.01 10065581.10 0.2654 0.1960 *

Jupiter 22846-08-11 18:43 G 10065613.13 10065613.28 10065613.42 0.0504 0.0029

Mars 22848-10-16 11:02 G 10066409.90 10066409.96 10066410.03 0.1628 0.1420

Moon 22849-01-07 22:19 G 10066493.33 10066493.43 10066493.54 0.2684 0.1090

Earth 22849-01-07 22:48 G 10066493.35 10066493.45 10066493.56 0.2678 0.1131 *

Uranus 22849-08-27 15:21 G 10066725.08 10066725.14 10066725.21 0.0133 0.0122

Uranus 22849-11-23 20:09 G 10066813.25 10066813.34 10066813.46 0.0133 0.0102

Uranus 22850-02-20 01:12 G 10066901.43 10066901.55 10066901.69 0.0133 0.0082

Uranus 22850-05-19 06:14 G 10066989.62 10066989.76 10066989.91 0.0133 0.0062

Uranus 22850-08-15 11:16 G 10067077.82 10067077.97 10067078.12 0.0133 0.0042

Uranus 22850-11-11 16:04 G 10067166.01 10067166.17 10067166.33 0.0133 0.0023

Uranus 22851-02-07 20:52 G 10067254.21 10067254.37 10067254.53 0.0133 0.0003

Uranus 22851-05-07 01:40 G 10067342.41 10067342.57 10067342.73 0.0133 0.0016

Saturn 22851-07-31 10:04 G 10067427.80 10067427.92 10067428.03 0.0288 0.0207

Uranus 22851-08-03 06:14 G 10067430.61 10067430.76 10067430.92 0.0133 0.0036

Saturn 22851-10-28 04:48 G 10067516.54 10067516.70 10067516.86 0.0288 0.0070

Uranus 22851-10-30 11:02 G 10067518.82 10067518.96 10067519.11 0.0133 0.0055

Saturn 22852-01-24 23:02 G 10067605.30 10067605.46 10067605.62 0.0288 0.0062

Uranus 22852-01-26 15:36 G 10067607.03 10067607.15 10067607.29 0.0133 0.0074

Saturn 22852-04-22 16:48 G 10067694.09 10067694.20 10067694.32 0.0287 0.0191

Uranus 22852-04-23 20:09 G 10067695.24 10067695.34 10067695.46 0.0133 0.0093

Uranus 22852-07-21 00:57 G 10067783.46 10067783.54 10067783.63 0.0133 0.0111

Jupiter 22852-10-11 12:57 G 10067866.04 10067866.04 10067866.06 0.0522 0.0520

Uranus 22852-10-17 05:16 G 10067871.70 10067871.72 10067871.76 0.0133 0.0130

Jupiter 22853-01-09 13:55 G 10067955.94 10067956.08 10067956.22 0.0526 0.0246

Venus 22854-09-21 04:04 G 10068575.59 10068575.67 10068575.76 0.3691 0.2553

Mars 22855-06-12 10:19 G 10068839.80 10068839.93 10068840.06 0.1903 0.0323

Mars 22858-03-08 18:43 G 10069840.16 10069840.28 10069840.41 0.1633 0.0647

Jupiter 22858-05-30 21:36 G 10069923.27 10069923.40 10069923.54 0.0505 0.0171

Jupiter 22858-08-28 07:26 G 10070012.73 10070012.81 10070012.89 0.0501 0.0407

Venus 22860-04-06 00:43 G 10070599.41 10070599.53 10070599.65 0.3692 0.0644

Venus 22861-10-17 18:14 G 10071159.17 10071159.26 10071159.35 0.3679 0.2419

Jupiter 22864-10-28 13:55 G 10072265.92 10072266.08 10072266.24 0.0525 0.0064

Mars 22864-11-01 13:40 G 10072269.95 10072270.07 10072270.18 0.1896 0.0993

Venus 22865-10-20 21:07 G 10072623.27 10072623.38 10072623.50 0.3693 0.1213

Moon 22866-07-05 16:19 G 10072881.09 10072881.18 10072881.27 0.2648 0.2013

Earth 22866-07-05 17:02 G 10072881.11 10072881.21 10072881.31 0.2654 0.1847 *

Saturn 22866-08-08 10:19 G 10072914.83 10072914.93 10072915.04 0.0271 0.0184

Saturn 22866-11-04 23:02 G 10073003.33 10073003.46 10073003.60 0.0271 0.0088

Saturn 22867-02-01 12:14 G 10073091.86 10073092.01 10073092.16 0.0272 0.0012

Saturn 22867-05-01 01:26 G 10073180.43 10073180.56 10073180.70 0.0272 0.0114

Venus 22867-05-03 14:52 G 10073183.00 10073183.12 10073183.24 0.3678 0.0583

Neptune 22867-07-25 12:57 G 10073266.00 10073266.04 10073266.10 0.0088 0.0082

Saturn 22867-07-28 15:07 G 10073269.05 10073269.13 10073269.22 0.0272 0.0218

Mars 22867-07-30 02:52 G 10073270.48 10073270.62 10073270.75 0.1638 0.0129

Neptune 22867-10-21 14:38 G 10073354.05 10073354.11 10073354.20 0.0088 0.0075

Neptune 22868-01-17 16:19 G 10073442.10 10073442.18 10073442.28 0.0088 0.0068

Neptune 22868-04-14 18:14 G 10073530.16 10073530.26 10073530.37 0.0088 0.0061

Neptune 22868-07-11 19:55 G 10073618.22 10073618.33 10073618.45 0.0088 0.0053

Neptune 22868-10-07 21:36 G 10073706.29 10073706.40 10073706.54 0.0088 0.0046

Moon 22869-01-03 11:16 G 10073793.89 10073793.97 10073794.05 0.2675 0.1996

Earth 22869-01-03 12:00 G 10073793.92 10073794.00 10073794.09 0.2678 0.1812 *

Neptune 22869-01-03 23:16 G 10073794.35 10073794.47 10073794.62 0.0088 0.0039

Neptune 22869-04-02 01:12 G 10073882.42 10073882.55 10073882.69 0.0088 0.0032

Neptune 22869-06-29 03:07 G 10073970.49 10073970.63 10073970.77 0.0088 0.0024

Neptune 22869-09-25 04:48 G 10074058.56 10074058.70 10074058.85 0.0088 0.0017

Neptune 22869-12-22 06:43 G 10074146.63 10074146.78 10074146.93 0.0088 0.0009

Jupiter 22870-03-19 00:57 G 10074233.43 10074233.54 10074233.65 0.0505 0.0314

Neptune 22870-03-20 08:24 G 10074234.71 10074234.85 10074235.00 0.0088 0.0003

Neptune 22870-06-16 10:19 G 10074322.78 10074322.93 10074323.08 0.0088 0.0006

Jupiter 22870-06-16 10:19 G 10074322.81 10074322.93 10074323.06 0.0502 0.0262 *

Neptune 22870-09-12 12:00 G 10074410.86 10074411.00 10074411.15 0.0088 0.0014

Neptune 22870-12-09 13:40 G 10074498.93 10074499.07 10074499.22 0.0088 0.0022

Neptune 22871-03-07 15:36 G 10074587.01 10074587.15 10074587.30 0.0088 0.0028

Venus 22871-05-06 17:02 G 10074647.14 10074647.21 10074647.28 0.3693 0.2958

Neptune 22871-06-03 17:16 G 10074675.10 10074675.22 10074675.37 0.0088 0.0036

Neptune 22871-08-30 19:26 G 10074763.18 10074763.31 10074763.44 0.0088 0.0043

Neptune 22871-11-26 21:07 G 10074851.26 10074851.38 10074851.51 0.0088 0.0051

Neptune 22872-02-22 22:48 G 10074939.35 10074939.45 10074939.57 0.0088 0.0059

Neptune 22872-05-21 00:43 G 10075027.44 10075027.53 10075027.64 0.0088 0.0066

Neptune 22872-08-17 02:38 G 10075115.54 10075115.61 10075115.70 0.0088 0.0074

Neptune 22872-11-13 04:19 G 10075203.64 10075203.68 10075203.75 0.0088 0.0082

Venus 22872-11-16 11:45 G 10075206.88 10075206.99 10075207.11 0.3678 0.1329

Jupiter 22876-08-16 12:43 G 10076575.87 10076576.03 10076576.19 0.0523 0.0135

Mars 22876-12-19 10:48 G 10076700.84 10076700.95 10076701.06 0.1643 0.0877

Venus 22878-06-02 09:07 G 10077230.83 10077230.88 10077230.93 0.3677 0.3336

Moon 22879-07-08 16:19 G 10077632.05 10077632.18 10077632.32 0.2653 0.0256

Earth 22879-07-08 17:45 G 10077632.10 10077632.24 10077632.37 0.2654 0.0317 *

Saturn 22880-12-17 11:16 G 10078159.89 10078159.97 10078160.07 0.0289 0.0239

Saturn 22881-03-16 06:28 G 10078248.61 10078248.77 10078248.92 0.0289 0.0101

Saturn 22881-06-13 00:57 G 10078337.38 10078337.54 10078337.70 0.0288 0.0034

Saturn 22881-09-09 18:43 G 10078426.15 10078426.28 10078426.42 0.0288 0.0164

Jupiter 22882-01-05 04:04 G 10078543.62 10078543.67 10078543.73 0.0507 0.0458

Moon 22882-01-06 07:12 G 10078544.68 10078544.80 10078544.92 0.2681 0.0230

Earth 22882-01-06 07:55 G 10078544.71 10078544.83 10078544.95 0.2678 0.0199 *

Jupiter 22882-04-04 13:26 G 10078632.92 10078633.06 10078633.20 0.0504 0.0116

Mars 22885-07-21 07:12 G 10079836.76 10079836.80 10079836.85 0.1910 0.1779

Mars 22886-05-11 18:57 G 10080131.28 10080131.29 10080131.31 0.1648 0.1625

Mars 22888-04-16 11:16 G 10080836.93 10080836.97 10080837.01 0.1629 0.1533

Jupiter 22888-06-04 11:45 G 10080885.87 10080885.99 10080886.12 0.0522 0.0328

Jupiter 22888-09-02 12:00 G 10080975.91 10080976.00 10080976.09 0.0526 0.0430

Uranus 22891-08-26 22:04 G 10082064.38 10082064.42 10082064.48 0.0145 0.0136

Uranus 22891-11-23 03:07 G 10082152.54 10082152.63 10082152.73 0.0145 0.0113

Uranus 22892-02-19 07:55 G 10082240.72 10082240.83 10082240.95 0.0145 0.0090

Uranus 22892-05-17 12:57 G 10082328.91 10082329.04 10082329.17 0.0145 0.0067

Moon 22892-07-10 17:02 G 10082383.13 10082383.21 10082383.28 0.2656 0.2209

Earth 22892-07-10 18:00 G 10082383.19 10082383.25 10082383.31 0.2654 0.2388 *

Uranus 22892-08-13 18:00 G 10082417.10 10082417.25 10082417.39 0.0145 0.0043

Uranus 22892-11-09 23:02 G 10082505.31 10082505.46 10082505.61 0.0145 0.0020

Uranus 22893-02-06 04:04 G 10082593.52 10082593.67 10082593.82 0.0145 0.0004

Uranus 22893-05-05 09:07 G 10082681.73 10082681.88 10082682.03 0.0145 0.0028

Uranus 22893-08-01 14:09 G 10082769.95 10082770.09 10082770.24 0.0145 0.0052

Uranus 22893-10-28 19:26 G 10082858.18 10082858.31 10082858.44 0.0145 0.0076

Jupiter 22894-01-21 16:48 G 10082943.06 10082943.20 10082943.35 0.0504 0.0029

Uranus 22894-01-25 00:43 G 10082946.42 10082946.53 10082946.64 0.0145 0.0101

Uranus 22894-04-23 05:45 G 10083034.67 10083034.74 10083034.83 0.0145 0.0125

Mars 22894-12-11 10:48 G 10083266.82 10083266.95 10083267.08 0.1904 0.0482

Moon 22895-01-09 03:36 G 10083295.55 10083295.65 10083295.75 0.2684 0.1387

Earth 22895-01-09 04:04 G 10083295.57 10083295.67 10083295.77 0.2678 0.1471 *

Saturn 22895-12-26 12:57 G 10083646.95 10083647.04 10083647.14 0.0271 0.0207

Saturn 22896-03-24 01:40 G 10083735.44 10083735.57 10083735.71 0.0271 0.0111

Saturn 22896-06-20 14:38 G 10083823.97 10083824.11 10083824.26 0.0271 0.0014

Saturn 22896-09-17 03:50 G 10083912.53 10083912.66 10083912.81 0.0271 0.0089

Saturn 22896-12-14 17:31 G 10084001.12 10084001.23 10084001.34 0.0272 0.0191

Mars 22897-09-06 19:12 G 10084267.18 10084267.30 10084267.42 0.1633 0.0766

Jupiter 22900-06-22 11:31 G 10085285.84 10085285.98 10085286.13 0.0525 0.0241

Mars 22904-05-03 13:55 G 10086696.96 10086697.08 10086697.20 0.1896 0.0855

Jupiter 22905-11-10 20:24 G 10087253.22 10087253.35 10087253.49 0.0505 0.0163

Jupiter 22906-02-08 06:14 G 10087342.68 10087342.76 10087342.84 0.0502 0.0418

Mars 22907-01-29 02:52 G 10087697.49 10087697.62 10087697.76 0.1638 0.0032

Saturn 22910-05-07 10:04 G 10088891.91 10088891.92 10088891.93 0.0288 0.0288

Saturn 22910-08-04 05:02 G 10088980.58 10088980.71 10088980.86 0.0288 0.0149

Saturn 22910-10-31 23:45 G 10089069.33 10089069.49 10089069.65 0.0288 0.0014

Saturn 22911-01-28 17:45 G 10089158.10 10089158.24 10089158.39 0.0288 0.0118

Saturn 22911-04-27 11:31 G 10089246.90 10089246.98 10089247.06 0.0287 0.0245

Venus 22911-04-29 02:52 G 10089248.52 10089248.62 10089248.73 0.3692 0.1935

Jupiter 22912-04-10 11:45 G 10089595.83 10089595.99 10089596.15 0.0524 0.0061

Moon 22912-07-06 21:50 G 10089683.30 10089683.41 10089683.53 0.2649 0.1451

Earth 22912-07-06 22:48 G 10089683.33 10089683.45 10089683.57 0.2654 0.1406 *

Venus 22912-11-08 20:52 G 10089808.35 10089808.37 10089808.39 0.3679 0.3599

Moon 22915-01-05 16:19 G 10090596.08 10090596.18 10090596.28 0.2676 0.1525

Earth 22915-01-05 17:02 G 10090596.12 10090596.21 10090596.31 0.2678 0.1485 *

Mars 22916-06-20 11:02 G 10091127.84 10091127.96 10091128.08 0.1643 0.0765

Venus 22916-11-11 23:31 G 10091272.36 10091272.48 10091272.60 0.3692 0.0097

Jupiter 22917-08-29 23:45 G 10091563.38 10091563.49 10091563.60 0.0505 0.0305

Jupiter 22917-11-27 09:07 G 10091652.76 10091652.88 10091653.00 0.0502 0.0270

Venus 22918-05-25 17:02 G 10091832.11 10091832.21 10091832.32 0.3679 0.1832

Venus 22922-05-28 19:40 G 10093296.22 10093296.32 10093296.43 0.3693 0.1790

Venus 22923-12-09 13:40 G 10093855.95 10093856.07 10093856.20 0.3678 0.0104

Jupiter 22924-01-28 11:31 G 10093905.83 10093905.98 10093906.14 0.0524 0.0122

Saturn 22925-05-15 13:55 G 10094379.02 10094379.08 10094379.14 0.0271 0.0243

Moon 22925-07-09 22:04 G 10094434.29 10094434.42 10094434.56 0.2654 0.0490

Earth 22925-07-09 23:16 G 10094434.34 10094434.47 10094434.61 0.2654 0.0747 *

Saturn 22925-08-12 02:24 G 10094467.48 10094467.60 10094467.73 0.0271 0.0148

Saturn 22925-11-08 15:21 G 10094556.00 10094556.14 10094556.28 0.0271 0.0051

Mars 22925-11-10 19:12 G 10094558.25 10094558.30 10094558.34 0.1648 0.1524

Saturn 22926-02-05 04:33 G 10094644.54 10094644.69 10094644.83 0.0272 0.0049

Saturn 22926-05-04 18:00 G 10094733.13 10094733.25 10094733.37 0.0272 0.0152

Saturn 22926-08-01 07:40 G 10094821.77 10094821.82 10094821.87 0.0272 0.0256

Venus 22927-12-12 15:36 G 10095320.12 10095320.15 10095320.19 0.3694 0.3527

Moon 22928-01-08 12:14 G 10095346.90 10095347.01 10095347.13 0.2682 0.0105

Earth 22928-01-08 12:57 G 10095346.92 10095347.04 10095347.16 0.2678 0.0170 *

Jupiter 22929-06-18 03:07 G 10095873.57 10095873.63 10095873.70 0.0506 0.0447

Venus 22929-06-24 10:48 G 10095879.84 10095879.95 10095880.05 0.3678 0.1973

Jupiter 22929-09-15 12:14 G 10095962.88 10095963.01 10095963.15 0.0503 0.0127

Uranus 22933-09-17 22:19 G 10097426.36 10097426.43 10097426.52 0.0133 0.0117

Uranus 22933-12-15 03:21 G 10097514.54 10097514.64 10097514.76 0.0133 0.0097

Uranus 22934-03-13 08:24 G 10097602.72 10097602.85 10097602.99 0.0133 0.0077

Uranus 22934-06-09 13:12 G 10097690.91 10097691.05 10097691.21 0.0133 0.0058

Mars 22934-06-12 10:48 G 10097693.83 10097693.95 10097694.08 0.1903 0.0618

Uranus 22934-09-05 18:14 G 10097779.11 10097779.26 10097779.42 0.0133 0.0037

Uranus 22934-12-02 23:16 G 10097867.31 10097867.47 10097867.63 0.0133 0.0017

Uranus 22935-03-01 04:04 G 10097955.51 10097955.67 10097955.83 0.0133 0.0003

Uranus 22935-05-28 08:38 G 10098043.71 10098043.86 10098044.03 0.0133 0.0022

Uranus 22935-08-24 13:26 G 10098131.91 10098132.06 10098132.22 0.0133 0.0041

Jupiter 22935-11-16 10:33 G 10098215.81 10098215.94 10098216.07 0.0522 0.0317

Uranus 22935-11-20 18:00 G 10098220.12 10098220.25 10098220.40 0.0133 0.0060

Jupiter 22936-02-14 10:48 G 10098305.86 10098305.95 10098306.03 0.0526 0.0440

Uranus 22936-02-16 22:48 G 10098308.33 10098308.45 10098308.58 0.0133 0.0079

Uranus 22936-05-15 03:21 G 10098396.54 10098396.64 10098396.75 0.0133 0.0098

Uranus 22936-08-11 07:55 G 10098484.76 10098484.83 10098484.91 0.0133 0.0117

Mars 22937-03-08 19:12 G 10098694.19 10098694.30 10098694.42 0.1633 0.0872

Saturn 22939-12-22 05:45 G 10099712.62 10099712.74 10099712.87 0.0289 0.0186

Saturn 22940-03-20 00:43 G 10099801.37 10099801.53 10099801.69 0.0289 0.0049

Saturn 22940-06-16 18:57 G 10099890.14 10099890.29 10099890.45 0.0288 0.0085

Saturn 22940-09-13 12:57 G 10099978.93 10099979.04 10099979.14 0.0288 0.0213

Moon 22941-01-10 08:52 G 10100097.79 10100097.87 10100097.96 0.2684 0.1844

Earth 22941-01-10 09:07 G 10100097.79 10100097.88 10100097.97 0.2678 0.1816 *

Jupiter 22941-07-04 15:21 G 10100273.00 10100273.14 10100273.28 0.0504 0.0021

Mars 22943-11-02 14:09 G 10101123.96 10101124.09 10101124.21 0.1897 0.0714

Mars 22946-07-30 03:07 G 10102124.50 10102124.63 10102124.77 0.1638 0.0115

Jupiter 22947-09-04 09:36 G 10102525.87 10102525.90 10102525.93 0.0521 0.0510

Jupiter 22947-12-03 10:19 G 10102615.79 10102615.93 10102616.07 0.0525 0.0252

Neptune 22951-01-18 17:31 G 10103758.20 10103758.23 10103758.29 0.0089 0.0086

Neptune 22951-04-16 20:24 G 10103846.27 10103846.35 10103846.44 0.0089 0.0076

Neptune 22951-07-13 23:02 G 10103934.36 10103934.46 10103934.58 0.0089 0.0067

Neptune 22951-10-10 01:40 G 10104022.45 10104022.57 10104022.71 0.0089 0.0059

Neptune 22952-01-06 04:19 G 10104110.55 10104110.68 10104110.83 0.0089 0.0050

Neptune 22952-04-03 07:12 G 10104198.65 10104198.80 10104198.95 0.0089 0.0041

Neptune 22952-06-30 09:21 G 10104286.75 10104286.89 10104287.06 0.0089 0.0033

Neptune 22952-09-26 12:14 G 10104374.85 10104375.01 10104375.18 0.0089 0.0023

Neptune 22952-12-23 14:52 G 10104462.95 10104463.12 10104463.29 0.0089 0.0014

Neptune 22953-03-21 17:16 G 10104551.06 10104551.22 10104551.39 0.0089 0.0006

Jupiter 22953-04-22 18:43 G 10104583.15 10104583.28 10104583.42 0.0505 0.0161

Neptune 22953-06-17 19:55 G 10104639.16 10104639.33 10104639.50 0.0089 0.0003

Jupiter 22953-07-21 04:33 G 10104672.62 10104672.69 10104672.77 0.0502 0.0421

Neptune 22953-09-13 22:19 G 10104727.27 10104727.43 10104727.60 0.0089 0.0013

Neptune 22953-12-11 00:57 G 10104815.38 10104815.54 10104815.71 0.0089 0.0021

Neptune 22954-03-09 03:21 G 10104903.49 10104903.64 10104903.81 0.0089 0.0029

Neptune 22954-06-05 06:00 G 10104991.60 10104991.75 10104991.90 0.0089 0.0038

Neptune 22954-09-01 08:24 G 10105079.71 10105079.85 10105080.00 0.0089 0.0046

Saturn 22954-10-02 16:33 G 10105111.17 10105111.19 10105111.22 0.0270 0.0266

Neptune 22954-11-28 11:02 G 10105167.83 10105167.96 10105168.09 0.0089 0.0055

Saturn 22954-12-30 05:02 G 10105199.60 10105199.71 10105199.83 0.0270 0.0172

Neptune 22955-02-24 13:12 G 10105255.95 10105256.05 10105256.18 0.0089 0.0064

Saturn 22955-03-28 18:00 G 10105288.11 10105288.25 10105288.39 0.0271 0.0075

Neptune 22955-05-23 15:50 G 10105344.07 10105344.16 10105344.26 0.0089 0.0072

Saturn 22955-06-25 06:57 G 10105376.64 10105376.79 10105376.94 0.0271 0.0024

Neptune 22955-08-19 18:00 G 10105432.20 10105432.25 10105432.34 0.0089 0.0081

Pluto 22955-09-10 03:50 G 10105453.65 10105453.66 10105453.69 0.0070 0.0069

Saturn 22955-09-21 20:09 G 10105465.21 10105465.34 10105465.48 0.0271 0.0126

Neptune 22955-11-15 20:38 G 10105520.35 10105520.36 10105520.39 0.0089 0.0089

Pluto 22955-12-07 04:48 G 10105541.63 10105541.70 10105541.76 0.0070 0.0059

Saturn 22955-12-19 09:50 G 10105553.84 10105553.91 10105553.99 0.0272 0.0229

Mars 22955-12-20 11:16 G 10105554.84 10105554.97 10105555.09 0.1643 0.0652

Pluto 22956-03-04 05:02 G 10105629.63 10105629.71 10105629.81 0.0070 0.0050

Pluto 22956-05-31 05:31 G 10105717.64 10105717.73 10105717.85 0.0070 0.0042

Pluto 22956-08-27 06:14 G 10105805.65 10105805.76 10105805.89 0.0070 0.0032

Pluto 22956-11-23 06:57 G 10105893.67 10105893.79 10105893.92 0.0070 0.0022

Pluto 22957-02-19 07:40 G 10105981.69 10105981.82 10105981.95 0.0071 0.0012

Pluto 22957-05-18 08:09 G 10106069.71 10106069.84 10106069.98 0.0071 0.0004

Pluto 22957-08-14 08:52 G 10106157.74 10106157.87 10106158.00 0.0071 0.0007

Pluto 22957-11-10 09:21 G 10106245.77 10106245.89 10106246.02 0.0071 0.0017

Pluto 22958-02-06 09:50 G 10106333.80 10106333.91 10106334.04 0.0071 0.0027

Pluto 22958-05-05 10:48 G 10106421.84 10106421.95 10106422.06 0.0071 0.0036

Moon 22958-07-08 03:36 G 10106485.52 10106485.65 10106485.77 0.2651 0.1130

Earth 22958-07-08 04:33 G 10106485.56 10106485.69 10106485.82 0.2654 0.0960 *

Pluto 22958-08-01 11:16 G 10106509.88 10106509.97 10106510.07 0.0071 0.0046

Pluto 22958-10-28 11:45 G 10106597.92 10106597.99 10106598.08 0.0071 0.0057

Pluto 22959-01-24 12:28 G 10106685.98 10106686.02 10106686.07 0.0071 0.0067

Jupiter 22959-09-21 09:36 G 10106925.74 10106925.90 10106926.07 0.0524 0.0063

Moon 22961-01-05 21:21 G 10107398.29 10107398.39 10107398.50 0.2678 0.1309

Earth 22961-01-05 22:19 G 10107398.32 10107398.43 10107398.54 0.2678 0.1146 *

Venus 22962-05-20 05:02 G 10107897.65 10107897.71 10107897.76 0.3691 0.3274

Jupiter 22965-02-08 22:33 G 10108893.33 10108893.44 10108893.55 0.0506 0.0297

Jupiter 22965-05-09 07:55 G 10108982.72 10108982.83 10108982.95 0.0503 0.0281

Mars 22965-05-11 19:12 G 10108985.24 10108985.30 10108985.37 0.1648 0.1414

Venus 22967-12-04 01:40 G 10109921.46 10109921.57 10109921.69 0.3692 0.1316

Saturn 22969-05-10 04:33 G 10110444.60 10110444.69 10110444.79 0.0289 0.0235

Venus 22969-06-15 19:26 G 10110481.25 10110481.31 10110481.38 0.3679 0.3033

Saturn 22969-08-06 23:31 G 10110533.33 10110533.48 10110533.64 0.0288 0.0097

Saturn 22969-11-03 18:00 G 10110622.09 10110622.25 10110622.41 0.0288 0.0038

Saturn 22970-01-31 12:00 G 10110710.87 10110711.00 10110711.13 0.0288 0.0168

Jupiter 22971-07-10 09:36 G 10111235.74 10111235.90 10111236.06 0.0523 0.0121

Moon 22971-07-11 03:50 G 10111236.54 10111236.66 10111236.79 0.2654 0.1101

Earth 22971-07-11 05:16 G 10111236.59 10111236.72 10111236.84 0.2654 0.1175 *

Venus 22973-06-18 22:19 G 10111945.31 10111945.43 10111945.55 0.3692 0.0571

Mars 22973-12-11 11:16 G 10112120.85 10112120.97 10112121.09 0.1904 0.0765

Moon 22974-01-08 17:31 G 10112149.11 10112149.23 10112149.35 0.2682 0.0466

Earth 22974-01-08 18:14 G 10112149.14 10112149.26 10112149.38 0.2677 0.0489 *

Venus 22974-12-30 15:50 G 10112505.05 10112505.16 10112505.28 0.3678 0.1238

Uranus 22975-09-17 05:31 G 10112765.67 10112765.73 10112765.80 0.0145 0.0129

Uranus 22975-12-14 10:33 G 10112853.84 10112853.94 10112854.04 0.0145 0.0106

Uranus 22976-03-11 15:21 G 10112942.02 10112942.14 10112942.27 0.0145 0.0084

Uranus 22976-06-07 20:24 G 10113030.21 10113030.35 10113030.49 0.0145 0.0060

Uranus 22976-09-04 01:12 G 10113118.41 10113118.55 10113118.70 0.0145 0.0037

Mars 22976-09-06 19:26 G 10113121.20 10113121.31 10113121.42 0.1633 0.0988

Jupiter 22976-11-28 01:55 G 10113203.52 10113203.58 10113203.65 0.0507 0.0437

Uranus 22976-12-01 06:14 G 10113206.62 10113206.76 10113206.92 0.0145 0.0014

Jupiter 22977-02-25 11:16 G 10113292.83 10113292.97 10113293.10 0.0503 0.0137

Uranus 22977-02-27 11:31 G 10113294.83 10113294.98 10113295.13 0.0145 0.0011

Uranus 22977-05-26 16:33 G 10113383.04 10113383.19 10113383.34 0.0145 0.0034

Uranus 22977-08-22 21:36 G 10113471.26 10113471.40 10113471.54 0.0145 0.0059

Uranus 22977-11-19 02:52 G 10113559.50 10113559.62 10113559.75 0.0145 0.0083

Uranus 22978-02-15 07:55 G 10113647.74 10113647.83 10113647.94 0.0145 0.0107

Uranus 22978-05-14 13:12 G 10113736.00 10113736.05 10113736.12 0.0145 0.0132

Venus 22979-01-02 18:28 G 10113969.18 10113969.27 10113969.36 0.3693 0.2366

Venus 22980-07-15 12:43 G 10114528.91 10114529.03 10114529.15 0.3678 0.0659

Jupiter 22983-04-28 09:21 G 10115545.76 10115545.89 10115546.03 0.0523 0.0304

Mars	22983-05-03 14:24 G	10115550.97	10115551.10	10115551.23	0.1897	0.0559
Jupiter	22983-07-27 09:50 G	10115635.83	10115635.91	10115635.99	0.0526	0.0455
Saturn	22984-05-18 05:31 G	10115931.65	10115931.73	10115931.83	0.0271	0.0211
Saturn	22984-08-14 18:14 G	10116020.13	10116020.26	10116020.40	0.0271	0.0115
Saturn	22984-11-11 07:12 G	10116108.66	10116108.80	10116108.95	0.0271	0.0017
Saturn	22985-02-07 20:24 G	10116197.21	10116197.35	10116197.49	0.0272	0.0084
Saturn	22985-05-07 09:50 G	10116285.81	10116285.91	10116286.02	0.0272	0.0187
Mars	22986-01-28 03:21 G	10116551.50	10116551.64	10116551.77	0.1638	0.0219
Venus	22986-01-29 09:50 G	10116552.82	10116552.91	10116552.99	0.3677	0.2628
Moon	22987-01-11 14:24 G	10116900.02	10116900.10	10116900.17	0.2684	0.2107
Earth	22987-01-11 14:24 G	10116900.03	10116900.10	10116900.17	0.2678	0.2164 *
Jupiter	22988-12-14 14:24 G	10117602.96	10117603.10	10117603.25	0.0504	0.0016
Moon	22994-01-04 06:57 G	10119449.75	10119449.79	10119449.83	0.2673	0.2488
Earth	22994-01-04 07:40 G	10119449.77	10119449.82	10119449.87	0.2678	0.2404 *
Jupiter	22995-02-14 08:24 G	10119855.81	10119855.85	10119855.90	0.0521	0.0497
Jupiter	22995-05-15 09:07 G	10119945.75	10119945.88	10119946.02	0.0525	0.0267
Mars	22995-06-20 11:16 G	10119981.85	10119981.97	10119982.10	0.1643	0.0546
Saturn	22998-09-27 04:33 G	10121176.65	10121176.69	10121176.74	0.0289	0.0277
Saturn	22998-12-24 23:45 G	10121265.35	10121265.49	10121265.64	0.0289	0.0137
Saturn	22999-03-23 18:28 G	10121354.11	10121354.27	10121354.43	0.0289	0.0002
Saturn	22999-06-20 12:43 G	10121442.89	10121443.03	10121443.17	0.0288	0.0131
Saturn	22999-09-17 06:14 G	10121531.70	10121531.76	10121531.83	0.0288	0.0259
Jupiter	23000-10-03 17:31 G	10121913.09	10121913.23	10121913.36	0.0505	0.0155

24TH MILLENNIUM CE

This is a list of transits of Mercury in the 24th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**23001-01-01 03:07**	**G**	**10122002.56**	**10122002.63**	**10122002.71**	**0.0502**	**0.0427**	
Moon	**23004-07-09 09:07**	**G**	**10123287.75**	**10123287.88**	**10123288.02**	**0.2651**	**0.0665**	
Earth	**23004-07-09 10:19**	**G**	**10123287.80**	**10123287.93**	**10123288.07**	**0.2654**	**0.0522**	*****
Mars	**23004-11-10 19:26**	**G**	**10123412.23**	**10123412.31**	**10123412.39**	**0.1648**	**0.1302**	
Moon	**23007-01-08 02:38**	**G**	**10124200.49**	**10124200.61**	**10124200.72**	**0.2679**	**0.0904**	
Earth	**23007-01-08 03:21**	**G**	**10124200.53**	**10124200.64**	**10124200.75**	**0.2678**	**0.0809**	*****
Jupiter	**23007-03-04 08:52**	**G**	**10124255.71**	**10124255.87**	**10124256.03**	**0.0524**	**0.0079**	
Jupiter	**23012-07-22 21:07**	**G**	**10126223.26**	**10126223.38**	**10126223.49**	**0.0506**	**0.0294**	
Jupiter	**23012-10-20 06:28**	**G**	**10126312.66**	**10126312.77**	**10126312.89**	**0.0503**	**0.0285**	
Mars	**23013-06-12 11:31**	**G**	**10126547.86**	**10126547.98**	**10126548.10**	**0.1904**	**0.0915**	
Saturn	**23013-10-06 08:09**	**G**	**10126663.78**	**10126663.84**	**10126663.92**	**0.0270**	**0.0233**	
Saturn	**23014-01-02 20:52**	**G**	**10126752.25**	**10126752.37**	**10126752.50**	**0.0270**	**0.0138**	
Saturn	**23014-04-01 09:50**	**G**	**10126840.76**	**10126840.91**	**10126841.05**	**0.0271**	**0.0041**	
Saturn	**23014-06-28 22:48**	**G**	**10126929.31**	**10126929.45**	**10126929.60**	**0.0271**	**0.0059**	
Saturn	**23014-09-25 12:14**	**G**	**10127017.89**	**10127018.01**	**10127018.13**	**0.0271**	**0.0161**	
Saturn	**23014-12-23 01:55**	**G**	**10127106.55**	**10127106.58**	**10127106.61**	**0.0272**	**0.0265**	
Mars	**23016-03-08 19:40**	**G**	**10127548.22**	**10127548.32**	**10127548.42**	**0.1633**	**0.1107**	
Moon	**23017-07-12 09:50**	**G**	**10128038.79**	**10128038.91**	**10128039.02**	**0.2655**	**0.1391**	
Earth	**23017-07-12 10:48**	**G**	**10128038.85**	**10128038.95**	**10128039.06**	**0.2654**	**0.1601**	*****
Uranus	**23017-07-13 00:43**	**G**	**10128039.51**	**10128039.53**	**10128039.56**	**0.0133**	**0.0131**	
Uranus	**23017-10-09 05:31**	**G**	**10128127.66**	**10128127.73**	**10128127.84**	**0.0133**	**0.0111**	
Uranus	**23018-01-05 10:33**	**G**	**10128215.83**	**10128215.94**	**10128216.07**	**0.0133**	**0.0091**	
Uranus	**23018-04-03 15:36**	**G**	**10128304.02**	**10128304.15**	**10128304.30**	**0.0133**	**0.0071**	
Uranus	**23018-06-30 20:38**	**G**	**10128392.22**	**10128392.36**	**10128392.52**	**0.0133**	**0.0051**	
Uranus	**23018-09-27 01:40**	**G**	**10128480.41**	**10128480.57**	**10128480.73**	**0.0133**	**0.0031**	
Jupiter	**23018-12-21 07:55**	**G**	**10128565.67**	**10128565.83**	**10128565.99**	**0.0523**	**0.0116**	

Uranus 23018-12-24 06:28 G 10128568.61 10128568.77 10128568.93 0.0133 0.0011

Venus 23018-12-26 03:50 G 10128570.58 10128570.66 10128570.74 0.3692 0.2630

Uranus 23019-03-22 11:16 G 10128656.81 10128656.97 10128657.13 0.0133 0.0009

Uranus 23019-06-18 16:04 G 10128745.01 10128745.17 10128745.33 0.0133 0.0028

Uranus 23019-09-14 20:38 G 10128833.22 10128833.36 10128833.52 0.0133 0.0047

Uranus 23019-12-12 01:26 G 10128921.43 10128921.56 10128921.70 0.0133 0.0066

Moon 23020-01-10 22:48 G 10128951.33 10128951.45 10128951.56 0.2682 0.0690

Earth 23020-01-10 23:16 G 10128951.36 10128951.47 10128951.58 0.2678 0.0829 *

Uranus 23020-03-09 06:00 G 10129009.64 10129009.75 10129009.88 0.0133 0.0085

Uranus 23020-06-05 10:48 G 10129097.85 10129097.95 10129098.05 0.0133 0.0104

Uranus 23020-09-01 15:21 G 10129186.08 10129186.14 10129186.20 0.0133 0.0122

Mars 23022-11-02 14:52 G 10129977.99 10129978.12 10129978.25 0.1897 0.0407

Jupiter 23024-05-11 00:43 G 10130533.46 10130533.53 10130533.61 0.0507 0.0429

Venus 23024-07-11 00:43 G 10130594.41 10130594.53 10130594.65 0.3692 0.0694

Jupiter 23024-08-08 10:04 G 10130622.78 10130622.92 10130623.05 0.0504 0.0146

Mars 23025-07-30 03:36 G 10130978.51 10130978.65 10130978.78 0.1637 0.0335

Venus 23026-01-21 18:14 G 10131154.17 10131154.26 10131154.35 0.3679 0.2452

Saturn 23028-05-13 22:33 G 10131997.31 10131997.44 10131997.56 0.0289 0.0186

Saturn 23028-08-10 17:16 G 10132086.06 10132086.22 10132086.39 0.0288 0.0050

Saturn 23028-11-07 11:45 G 10132174.84 10132174.99 10132175.14 0.0288 0.0084

Saturn 23029-02-04 05:31 G 10132263.63 10132263.73 10132263.84 0.0288 0.0214

Venus 23030-01-24 21:07 G 10132618.26 10132618.38 10132618.49 0.3693 0.1175

Jupiter 23030-10-09 07:40 G 10132875.69 10132875.82 10132875.95 0.0522 0.0300

Jupiter 23031-01-07 07:55 G 10132965.76 10132965.83 10132965.91 0.0526 0.0458

Venus 23031-08-07 14:52 G 10133178.00 10133178.12 10133178.24 0.3678 0.0637

Neptune 23032-01-25 10:48 G 10133348.93 10133348.95 10133348.98 0.0088 0.0086

Mars 23032-03-24 17:45 G 10133408.19 10133408.24 10133408.28 0.1890 0.1760

Neptune 23032-04-22 12:14 G 10133436.96 10133437.01 10133437.09 0.0088 0.0080

Neptune 23032-07-19 13:55 G 10133525.01 10133525.08 10133525.18 0.0088 0.0073

Neptune 23032-10-15 15:36 G 10133613.07 10133613.15 10133613.26 0.0088 0.0066

Neptune 23033-01-11 17:45 G 10133701.13 10133701.24 10133701.35 0.0088 0.0058

Earth 23033-01-12 19:26 G 10133702.27 10133702.31 10133702.35 0.2677 0.2513

Moon 23033-01-12 19:40 G 10133702.29 10133702.32 10133702.34 0.2685 0.2614 *

Neptune 23033-04-09 19:26 G 10133789.19 10133789.31 10133789.43 0.0088 0.0050

Neptune 23033-07-06 21:07 G 10133877.25 10133877.38 10133877.51 0.0088 0.0043

Neptune 23033-10-02 22:48 G 10133965.32 10133965.45 10133965.59 0.0088 0.0036

Neptune 23033-12-30 00:43 G 10134053.39 10134053.53 10134053.67 0.0088 0.0028

Neptune 23034-03-28 02:24 G 10134141.46 10134141.60 10134141.74 0.0088 0.0021

Neptune 23034-06-24 04:04 G 10134229.53 10134229.67 10134229.82 0.0088 0.0014

Neptune 23034-09-20 06:00 G 10134317.60 10134317.75 10134317.90 0.0088 0.0006

Neptune 23034-12-17 07:40 G 10134405.67 10134405.82 10134405.97 0.0088 0.0002

Mars 23034-12-20 11:31 G 10134408.85 10134408.98 10134409.11 0.1642 0.0435

Neptune 23035-03-15 09:36 G 10134493.75 10134493.90 10134494.05 0.0088 0.0009

Neptune 23035-06-11 11:16 G 10134581.83 10134581.97 10134582.12 0.0088 0.0016

Venus 23035-08-10 17:02 G 10134642.14 10134642.21 10134642.28 0.3693 0.2949

Neptune 23035-09-07 13:12 G 10134669.90 10134670.05 10134670.19 0.0088 0.0024

Neptune 23035-12-04 14:52 G 10134757.98 10134758.12 10134758.26 0.0088 0.0031

Neptune 23036-03-01 16:33 G 10134846.07 10134846.19 10134846.33 0.0088 0.0039

Jupiter 23036-05-27 13:26 G 10134932.92 10134933.06 10134933.20 0.0504 0.0007

Neptune 23036-05-28 18:28 G 10134934.15 10134934.27 10134934.40 0.0088 0.0046

Neptune 23036-08-24 20:09 G 10135022.23 10135022.34 10135022.47 0.0088 0.0054

Neptune 23036-11-20 22:19 G 10135110.32 10135110.43 10135110.54 0.0088 0.0061

Neptune 23037-02-17 00:00 G 10135198.42 10135198.50 10135198.60 0.0088 0.0069

Venus 23037-02-20 11:31 G 10135201.87 10135201.98 10135202.10 0.3678 0.1294

Neptune 23037-05-16 01:40 G 10135286.51 10135286.57 10135286.66 0.0088 0.0077

Moon 23037-07-07 14:38 G 10135339.05 10135339.11 10135339.17 0.2649 0.2393

Earth 23037-07-07 15:21 G 10135339.07 10135339.14 10135339.21 0.2654 0.2267 *

Neptune 23037-08-12 03:50 G 10135374.62 10135374.66 10135374.70 0.0088 0.0084

Moon 23040-01-06 12:00 G 10136251.93 10136252.00 10136252.06 0.2674 0.2189

Earth 23040-01-06 12:43 G 10136251.95 10136252.03 10136252.10 0.2677 0.2078 *

Pluto 23041-10-21 11:45 G 10136905.92 10136905.99 10136906.11 0.0074 0.0065

Pluto 23042-01-17 14:38 G 10136993.97 10136994.11 10136994.27 0.0074 0.0048

Pluto 23042-04-15 17:02 G 10137082.04 10137082.21 10137082.40 0.0073 0.0032

Pluto 23042-07-12 19:40 G 10137170.13 10137170.32 10137170.52 0.0073 0.0015

Jupiter 23042-07-28 07:12 G 10137185.75 10137185.80 10137185.87 0.0522 0.0484

Venus 23042-09-06 08:52 G 10137225.82 10137225.87 10137225.92 0.3677 0.3298

Pluto 23042-10-08 22:19 G 10137258.23 10137258.43 10137258.63 0.0073 0.0001

Jupiter 23042-10-26 08:09 G 10137275.71 10137275.84 10137275.98 0.0525 0.0282

Pluto 23043-01-05 00:43 G 10137346.34 10137346.53 10137346.73 0.0073 0.0017

Pluto 23043-04-03 03:07 G 10137434.46 10137434.63 10137434.81 0.0073 0.0033

Saturn 23043-05-22 21:07 G 10137484.28 10137484.38 10137484.49 0.0271 0.0179

Pluto 23043-06-30 05:31 G 10137522.59 10137522.73 10137522.89 0.0073 0.0049

Saturn 23043-08-19 09:50 G 10137572.78 10137572.91 10137573.05 0.0271 0.0082

Pluto 23043-09-26 07:40 G 10137610.75 10137610.82 10137610.93 0.0073 0.0065

Saturn 23043-11-15 22:48 G 10137661.31 10137661.45 10137661.60 0.0271 0.0019

Saturn 23044-02-12 12:00 G 10137749.87 10137750.00 10137750.14 0.0271 0.0118

Saturn 23044-05-11 01:40 G 10137838.49 10137838.57 10137838.66 0.0272 0.0221

Mars 23044-05-11 19:40 G 10137839.23 10137839.32 10137839.41 0.1648 0.1194

Jupiter 23048-03-15 16:48 G 10139243.07 10139243.20 10139243.34 0.0505 0.0137

Jupiter 23048-06-13 02:24 G 10139332.54 10139332.60 10139332.67 0.0502 0.0443

Moon 23050-07-10 14:52 G 10140089.98 10140090.12 10140090.26 0.2652 0.0238

Earth 23050-07-10 16:04 G 10140090.04 10140090.17 10140090.31 0.2654 0.0110 *

Mars 23052-12-11 11:45 G 10140974.88 10140974.99 10140975.11 0.1904 0.1059

Moon 23053-01-08 07:40 G 10141002.70 10141002.82 10141002.93 0.2680 0.0604

Earth 23053-01-08 08:24 G 10141002.74 10141002.85 10141002.97 0.2677 0.0476 *

Jupiter 23054-08-14 07:40 G 10141585.67 10141585.82 10141585.98 0.0524 0.0095

Mars 23055-09-07 19:55 G 10141975.24 10141975.33 10141975.42 0.1633 0.1218

Saturn 23057-09-30 21:50 G 10142729.32 10142729.41 10142729.51 0.0290 0.0233

Saturn 23057-12-28 17:02 G 10142818.06 10142818.21 10142818.37 0.0289 0.0093

Saturn 23058-03-27 11:31 G 10142906.83 10142906.98 10142907.15 0.0289 0.0043

Saturn 23058-06-24 05:45 G 10142995.61 10142995.74 10142995.87 0.0289 0.0174

Uranus 23059-07-12 08:24 G 10143378.85 10143378.85 10143378.87 0.0145 0.0144

Uranus 23059-10-08 13:26 G 10143466.98 10143467.06 10143467.14 0.0145 0.0122

Jupiter 23060-01-02 19:40 G 10143553.21 10143553.32 10143553.44 0.0506 0.0287

Uranus 23060-01-04 18:00 G 10143555.15 10143555.25 10143555.37 0.0145 0.0099

Jupiter 23060-04-01 05:02 G 10143642.60 10143642.71 10143642.83 0.0503 0.0293

Uranus 23060-04-01 23:02 G 10143643.34 10143643.46 10143643.59 0.0145 0.0076

Uranus 23060-06-29 04:04 G 10143731.53 10143731.67 10143731.81 0.0145 0.0053

Uranus 23060-09-25 09:07 G 10143819.73 10143819.88 10143820.02 0.0145 0.0029

Uranus 23060-12-22 14:09 G 10143907.93 10143908.09 10143908.24 0.0145 0.0007

Uranus 23061-03-20 19:12 G 10143996.15 10143996.30 10143996.45 0.0145 0.0018

Uranus 23061-06-17 00:14 G 10144084.36 10144084.51 10144084.66 0.0145 0.0042

Uranus 23061-09-13 05:16 G 10144172.59 10144172.72 10144172.86 0.0145 0.0066

Uranus 23061-12-10 10:33 G 10144260.82 10144260.94 10144261.06 0.0145 0.0090

Uranus 23062-03-08 15:36 G 10144349.07 10144349.15 10144349.25 0.0145 0.0115

Mars 23062-05-03 14:52 G 10144404.99 10144405.12 10144405.26 0.1897 0.0279

Uranus 23062-06-04 21:07 G 10144437.34 10144437.38 10144437.42 0.0145 0.0140

Moon 23063-07-13 15:36 G 10144841.06 10144841.15 10144841.24 0.2657 0.1934

Earth 23063-07-13 16:33 G 10144841.11 10144841.19 10144841.28 0.2654 0.2028 *

Mars 23065-01-28 03:50 G 10145405.52 10145405.66 10145405.79 0.1637 0.0450

Moon 23066-01-11 04:04 G 10145753.56 10145753.67 10145753.77 0.2683 0.1164

Earth 23066-01-11 04:33 G 10145753.58 10145753.69 10145753.79 0.2677 0.1178 *

Jupiter 23066-06-02 07:12 G 10145895.64 10145895.80 10145895.96 0.0523 0.0095

Mars 23071-09-23 18:14 G 10147835.19 10147835.26 10147835.33 0.1890 0.1595

Jupiter 23071-10-21 23:16 G 10147863.40 10147863.47 10147863.55 0.0507 0.0425

Jupiter 23072-01-19 08:38 G 10147952.72 10147952.86 10147952.99 0.0504 0.0151

Saturn 23072-10-08 23:45 G 10148216.40 10148216.49 10148216.59 0.0270 0.0201

Saturn 23073-01-05 12:28 G 10148304.89 10148305.02 10148305.16 0.0270 0.0106

Saturn 23073-04-04 01:26 G 10148393.41 10148393.56 10148393.71 0.0270 0.0008

Saturn 23073-07-01 14:38 G 10148481.97 10148482.11 10148482.25 0.0271 0.0093

Saturn 23073-09-28 04:04 G 10148570.57 10148570.67 10148570.77 0.0271 0.0195

Mars 23074-06-20 11:45 G 10148835.86 10148835.99 10148836.12 0.1642 0.0318

Venus 23075-08-02 02:38 G 10149243.51 10149243.61 10149243.72 0.3692 0.1996

Venus 23077-02-11 20:52 G 10149803.35 10149803.37 10149803.38 0.3679 0.3632

Jupiter 23078-03-21 06:14 G 10150205.62 10150205.76 10150205.89 0.0522 0.0292

Jupiter 23078-06-19 06:28 G 10150295.70 10150295.77 10150295.84 0.0525 0.0464

Venus 23081-02-14 23:31 G 10151267.36 10151267.48 10151267.60 0.3692 0.0113

Venus 23082-08-28 17:02 G 10151827.11 10151827.21 10151827.31 0.3679 0.1863

Moon 23083-07-08 20:09 G 10152141.24 10152141.34 10152141.44 0.2650 0.1850

Earth 23083-07-08 21:07 G 10152141.28 10152141.38 10152141.48 0.2654 0.1816 *

Jupiter 23083-11-07 12:14 G 10152262.87 10152263.01 10152263.15 0.0505 0.0014

Mars 23083-11-10 19:55 G 10152266.22 10152266.33 10152266.43 0.1648 0.1087

Moon 23086-01-06 17:02 G 10153054.12 10153054.21 10153054.29 0.2676 0.1808

Earth 23086-01-06 17:45 G 10153054.15 10153054.24 10153054.33 0.2677 0.1748 *

Venus 23086-08-31 19:40 G 10153291.22 10153291.32 10153291.43 0.3693 0.1762

Saturn 23087-02-17 20:52 G 10153461.33 10153461.37 10153461.40 0.0289 0.0281

Saturn 23087-05-17 15:50 G 10153550.02 10153550.16 10153550.31 0.0289 0.0141

Saturn 23087-08-14 10:48 G 10153638.79 10153638.95 10153639.11 0.0289 0.0006

Saturn 23087-11-11 05:02 G 10153727.56 10153727.71 10153727.85 0.0288 0.0129

Saturn 23088-02-07 22:33 G 10153816.38 10153816.44 10153816.52 0.0288 0.0257

Venus 23088-03-13 13:40 G 10153850.95 10153851.07 10153851.19 0.3678 0.0071

Jupiter 23090-01-07 05:45 G 10154515.68 10154515.74 10154515.80 0.0521 0.0478

Jupiter 23090-04-07 06:28 G 10154605.64 10154605.77 10154605.91 0.0525 0.0286

Venus 23092-03-16 15:36 G 10155315.12 10155315.15 10155315.19 0.3693 0.3524

Mars 23092-06-11 12:00 G 10155401.90 10155402.00 10155402.11 0.1904 0.1198

Venus 23093-09-27 10:33 G 10155874.83 10155874.94 10155875.04 0.3678 0.1932

Mars 23095-03-08 19:55 G 10156402.26 10156402.33 10156402.41 0.1632 0.1332

Jupiter 23095-08-26 15:36 G 10156573.02 10156573.15 10156573.29 0.0505 0.0127

Jupiter 23095-11-24 01:12 G 10156662.50 10156662.55 10156662.62 0.0502 0.0455

Moon 23096-07-10 20:38 G 10156892.23 10156892.36 10156892.50 0.2652 0.0197

Earth 23096-07-10 21:50 G 10156892.28 10156892.41 10156892.55 0.2654 0.0364 *

Moon 23099-01-09 12:43 G 10157804.91 10157805.03 10157805.15 0.2680 0.0258

Earth 23099-01-09 13:26 G 10157804.94 10157805.06 10157805.18 0.2677 0.0165 *

Uranus 23101-08-03 07:55 G 10158740.79 10158740.83 10158740.89 0.0133 0.0125

Uranus 23101-10-30 12:57 G 10158828.95 10158829.04 10158829.15 0.0133 0.0105

Mars 23101-11-02 15:21 G 10158832.01 10158832.14 10158832.28 0.1897 0.0123

Jupiter 23102-01-25 06:43 G 10158915.62 10158915.78 10158915.94 0.0524 0.0107

Uranus 23102-01-26 18:00 G 10158917.13 10158917.25 10158917.38 0.0133 0.0085

Saturn 23102-02-27 00:14 G 10158948.45 10158948.51 10158948.58 0.0270 0.0241

Uranus 23102-04-24 23:02 G 10159005.32 10159005.46 10159005.61 0.0133 0.0065

Saturn 23102-05-26 12:43 G 10159036.91 10159037.03 10159037.16 0.0270 0.0147

Uranus 23102-07-22 04:04 G 10159093.52 10159093.67 10159093.82 0.0133 0.0045

Saturn 23102-08-23 01:40 G 10159125.42 10159125.57 10159125.71 0.0271 0.0050

Uranus 23102-10-18 08:52 G 10159181.71 10159181.87 10159182.03 0.0133 0.0025

Saturn 23102-11-19 14:38 G 10159213.96 10159214.11 10159214.25 0.0271 0.0050

Uranus 23103-01-14 13:55 G 10159269.91 10159270.08 10159270.24 0.0133 0.0006

Saturn 23103-02-16 03:50 G 10159302.54 10159302.66 10159302.79 0.0271 0.0151

Uranus 23103-04-12 18:43 G 10159358.11 10159358.28 10159358.44 0.0133 0.0014

Saturn 23103-05-15 17:16 G 10159391.18 10159391.22 10159391.28 0.0272 0.0256

Uranus 23103-07-09 23:16 G 10159446.32 10159446.47 10159446.63 0.0133 0.0033

Uranus 23103-10-06 04:04 G 10159534.53 10159534.67 10159534.82 0.0133 0.0052

Uranus 23104-01-02 08:52 G 10159622.73 10159622.87 10159623.00 0.0133 0.0071

Uranus 23104-03-30 13:26 G 10159710.95 10159711.06 10159711.18 0.0133 0.0090

Uranus 23104-06-26 18:00 G 10159799.16 10159799.25 10159799.34 0.0133 0.0109

Mars 23104-07-30 03:50 G 10159832.54 10159832.66 10159832.79 0.1637 0.0561

Uranus 23104-09-22 22:19 G 10159887.40 10159887.43 10159887.49 0.0133 0.0128

Jupiter 23107-06-15 19:12 G 10160883.18 10160883.30 10160883.42 0.0506 0.0267

Jupiter 23107-09-13 04:33 G 10160972.58 10160972.69 10160972.80 0.0503 0.0311

Moon 23109-07-14 21:21 G 10161643.33 10161643.39 10161643.46 0.2658 0.2323

Earth 23109-07-14 22:19 G 10161643.38 10161643.43 10161643.48 0.2654 0.2451 *

Mars 23111-03-25 18:14 G 10162262.17 10162262.26 10162262.34 0.1890 0.1469

Moon 23112-01-13 09:21 G 10162555.79 10162555.89 10162555.99 0.2684 0.1469

Earth 23112-01-13 09:36 G 10162555.80 10162555.90 10162556.00 0.2677 0.1519 *

Jupiter 23113-11-13 06:14 G 10163225.60 10163225.76 10163225.93 0.0523 0.0080

Mars 23113-12-20 12:00 G 10163262.86 10163263.00 10163263.13 0.1642 0.0213

Neptune 23115-10-17 16:19 G 10163929.13 10163929.18 10163929.26 0.0089 0.0082

Neptune 23116-01-13 18:57 G 10164017.21 10164017.29 10164017.40 0.0089 0.0074

Neptune 23116-04-10 21:50 G 10164105.30 10164105.41 10164105.54 0.0089 0.0064

Neptune 23116-07-08 00:28 G 10164193.40 10164193.52 10164193.66 0.0089 0.0055

Neptune 23116-10-04 03:07 G 10164281.49 10164281.63 10164281.78 0.0089 0.0046

Saturn 23116-10-04 14:52 G 10164282.00 10164282.12 10164282.24 0.0290 0.0190

Neptune 23116-12-31 05:45 G 10164369.59 10164369.74 10164369.90 0.0089 0.0038

Saturn 23117-01-01 09:50 G 10164370.75 10164370.91 10164371.07 0.0289 0.0052

Neptune 23117-03-29 08:38 G 10164457.70 10164457.86 10164458.02 0.0089 0.0029

Saturn 23117-03-31 04:19 G 10164459.53 10164459.68 10164459.84 0.0289 0.0083

Neptune 23117-06-25 11:02 G 10164545.80 10164545.96 10164546.13 0.0089 0.0020

Saturn 23117-06-27 22:19 G 10164548.33 10164548.43 10164548.54 0.0289 0.0214

Neptune 23117-09-21 13:40 G 10164633.91 10164634.07 10164634.24 0.0089 0.0011

Neptune 23117-12-18 16:19 G 10164722.01 10164722.18 10164722.35 0.0089 0.0002

Neptune 23118-03-16 18:57 G 10164810.12 10164810.29 10164810.46 0.0089 0.0007

Neptune 23118-06-12 21:21 G 10164898.23 10164898.39 10164898.56 0.0089 0.0015

Neptune 23118-09-08 23:45 G 10164986.34 10164986.49 10164986.66 0.0089 0.0024

Neptune 23118-12-06 02:24 G 10165074.45 10165074.60 10165074.76 0.0089 0.0033

Neptune 23119-03-04 04:48 G 10165162.56 10165162.70 10165162.86 0.0089 0.0041

Jupiter 23119-04-03 22:04 G 10165193.35 10165193.42 10165193.50 0.0507 0.0417

Neptune 23119-05-31 07:12 G 10165250.68 10165250.80 10165250.95 0.0089 0.0050

Jupiter 23119-07-02 07:12 G 10165282.67 10165282.80 10165282.94 0.0504 0.0160

Neptune 23119-08-27 09:50 G 10165338.79 10165338.91 10165339.04 0.0089 0.0058

Neptune 23119-11-23 12:28 G 10165426.91 10165427.02 10165427.13 0.0089 0.0067

Neptune 23120-02-19 14:38 G 10165515.04 10165515.11 10165515.21 0.0089 0.0075

Neptune 23120-05-17 17:16 G 10165603.17 10165603.22 10165603.28 0.0089 0.0084

Mars 23123-05-12 20:09 G 10166693.23 10166693.34 10166693.44 0.1647 0.0970

Jupiter 23125-09-01 05:45 G 10167535.60 10167535.74 10167535.88 0.0522 0.0268

Jupiter 23125-11-30 05:45 G 10167625.69 10167625.74 10167625.80 0.0525 0.0487

Venus 23126-08-24 04:33 G 10167892.65 10167892.69 10167892.74 0.3691 0.3345

Moon 23129-07-10 01:55 G 10168943.47 10168943.58 10168943.70 0.2650 0.1579

Earth 23129-07-10 02:52 G 10168943.50 10168943.62 10168943.74 0.2654 0.1365 *

Jupiter 23131-04-20 10:48 G 10169592.81 10169592.95 10169593.09 0.0505 0.0021

Saturn 23131-07-17 02:52 G 10169680.60 10169680.62 10169680.66 0.0270 0.0263

Saturn 23131-10-13 15:21 G 10169769.04 10169769.14 10169769.26 0.0270 0.0169

Mars 23131-12-12 12:28 G 10169828.93 10169829.02 10169829.11 0.1905 0.1359

Moon 23132-01-08 22:04 G 10169856.32 10169856.42 10169856.51 0.2677 0.1602

Earth 23132-01-08 22:48 G 10169856.35 10169856.45 10169856.55 0.2677 0.1416 *

Saturn 23132-01-10 04:04 G 10169857.54 10169857.67 10169857.82 0.0270 0.0073

Venus 23132-03-09 01:40 G 10169916.46 10169916.57 10169916.68 0.3692 0.1358

Saturn 23132-04-07 17:16 G 10169946.07 10169946.22 10169946.36 0.0270 0.0027

Saturn 23132-07-05 06:28 G 10170034.64 10170034.77 10170034.90 0.0271 0.0127

Saturn 23132-10-01 19:55 G 10170123.25 10170123.33 10170123.41 0.0271 0.0230

Venus 23133-09-19 19:26 G 10170476.25 10170476.31 10170476.38 0.3679 0.3065

Mars 23134-09-07 20:24 G 10170829.29 10170829.35 10170829.41 0.1632 0.1454

Jupiter 23137-06-20 04:19 G 10171845.61 10171845.68 10171845.75 0.0521 0.0467

Jupiter 23137-09-18 05:02 G 10171935.59 10171935.71 10171935.85 0.0524 0.0296

Venus 23137-09-22 22:04 G 10171940.31 10171940.42 10171940.54 0.3692 0.0555

Venus 23139-04-05 15:50 G 10172500.05 10172500.16 10172500.27 0.3679 0.1266

Mars 23141-05-03 15:36 G 10173259.02 10173259.15 10173259.29 0.1897 0.0059

Moon 23142-07-13 02:38 G 10173694.47 10173694.61 10173694.74 0.2654 0.0702

Earth 23142-07-13 03:50 G 10173694.53 10173694.66 10173694.79 0.2654 0.0798 *

Jupiter 23143-02-06 14:24 G 10173902.97 10173903.10 10173903.24 0.0506 0.0119

Venus 23143-04-08 18:28 G 10173964.18 10173964.27 10173964.36 0.3693 0.2352

Jupiter 23143-05-07 00:14 G 10173992.45 10173992.51 10173992.56 0.0502 0.0463

Uranus 23143-08-02 16:04 G 10174080.13 10174080.17 10174080.23 0.0145 0.0137

Uranus 23143-10-29 20:52 G 10174168.29 10174168.37 10174168.47 0.0145 0.0115

Uranus 23144-01-26 01:55 G 10174256.47 10174256.58 10174256.70 0.0145 0.0091

Mars 23144-01-29 04:04 G 10174259.55 10174259.67 10174259.80 0.1637 0.0674

Uranus 23144-04-23 06:43 G 10174344.65 10174344.78 10174344.92 0.0145 0.0069

Uranus 23144-07-20 11:45 G 10174432.85 10174432.99 10174433.13 0.0145 0.0045

Uranus 23144-10-16 16:48 G 10174521.05 10174521.20 10174521.35 0.0145 0.0022

Venus 23144-10-19 12:28 G 10174523.90 10174524.02 10174524.14 0.3678 0.0609

Moon 23145-01-10 18:00 G 10174607.13 10174607.25 10174607.37 0.2680 0.0146

Earth 23145-01-10 18:43 G 10174607.16 10174607.28 10174607.40 0.2677 0.0208 *

Uranus 23145-01-12 21:50 G 10174609.26 10174609.41 10174609.56 0.0145 0.0003

Uranus 23145-04-11 02:52 G 10174697.47 10174697.62 10174697.77 0.0145 0.0026

Uranus 23145-07-08 07:55 G 10174785.69 10174785.83 10174785.97 0.0145 0.0050

Uranus 23145-10-04 12:57 G 10174873.92 10174874.04 10174874.18 0.0145 0.0074

Uranus 23145-12-31 18:14 G 10174962.15 10174962.26 10174962.38 0.0145 0.0099

Saturn 23146-02-21 13:55 G 10175013.99 10175014.08 10175014.18 0.0289 0.0237

Uranus 23146-03-29 23:16 G 10175050.40 10175050.47 10175050.56 0.0145 0.0123

Saturn 23146-05-21 09:07 G 10175102.73 10175102.88 10175103.04 0.0289 0.0097

Saturn 23146-08-18 03:50 G 10175191.50 10175191.66 10175191.82 0.0289 0.0039

Saturn 23146-11-14 21:50 G 10175280.28 10175280.41 10175280.54 0.0288 0.0171

Jupiter 23149-07-07 05:02 G 10176245.56 10176245.71 10176245.87 0.0524 0.0113

Venus 23150-05-05 09:36 G 10176547.81 10176547.90 10176547.98 0.3678 0.2589

Mars 23150-09-23 18:43 G 10176689.18 10176689.28 10176689.38 0.1890 0.1305

Mars 23153-06-20 12:00 G 10177689.87 10177690.00 10177690.14 0.1642 0.0111

Jupiter 23154-11-25 18:00 G 10178213.13 10178213.25 10178213.37 0.0506 0.0257

Jupiter 23155-02-23 03:21 G 10178302.54 10178302.64 10178302.75 0.0503 0.0322

Moon 23158-01-13 14:38 G 10179358.02 10179358.11 10179358.19 0.2684 0.1850

Earth 23158-01-13 14:38 G 10179358.03 10179358.11 10179358.20 0.2677 0.1862 *

Saturn 23161-03-01 15:50 G 10180501.07 10180501.16 10180501.25 0.0270 0.0208

Jupiter 23161-04-25 05:02 G 10180555.55 10180555.71 10180555.87 0.0523 0.0068

Saturn 23161-05-29 04:33 G 10180589.56 10180589.69 10180589.82 0.0270 0.0113

Saturn 23161-08-25 17:16 G 10180678.07 10180678.22 10180678.37 0.0270 0.0016

Saturn 23161-11-22 06:14 G 10180766.62 10180766.76 10180766.90 0.0271 0.0084

Saturn 23162-02-18 19:40 G 10180855.21 10180855.32 10180855.43 0.0271 0.0186

Mars 23162-11-10 20:09 G 10181120.22 10181120.34 10181120.45 0.1647 0.0865

Earth 23165-01-06 08:09 G 10181907.84 10181907.84 10181907.85 0.2677 0.2667

Jupiter 23166-09-13 21:36 G 10182523.32 10182523.40 10182523.49 0.0507 0.0396

Jupiter 23166-12-12 06:43 G 10182612.65 10182612.78 10182612.92 0.0504 0.0180

Mars 23171-06-12 12:43 G 10184255.95 10184256.03 10184256.11 0.1904 0.1492

Mars 23172-04-02 04:19 G 10184550.66 10184550.68 10184550.70 0.1653 0.1625

Jupiter 23173-02-11 04:48 G 10184865.56 10184865.70 10184865.84 0.0522 0.0251

Jupiter 23173-05-12 04:48 G 10184955.67 10184955.70 10184955.75 0.0525 0.0505

Mars 23174-03-08 20:24 G 10185256.32 10185256.35 10185256.39 0.1632 0.1565

Moon 23175-07-11 07:40 G 10185745.69 10185745.82 10185745.95 0.2650 0.0960

Earth 23175-07-11 08:52 G 10185745.74 10185745.87 10185746.00 0.2654 0.0920 *

Saturn 23175-07-11 12:14 G 10185746.01 10185746.01 10185746.02 0.0290 0.0290

Saturn 23175-10-08 07:40 G 10185834.68 10185834.82 10185834.97 0.0290 0.0148

Saturn 23176-01-05 02:38 G 10185923.45 10185923.61 10185923.77 0.0289 0.0010

Saturn 23176-04-02 20:52 G 10186012.23 10186012.37 10186012.52 0.0289 0.0125

Saturn 23176-06-30 14:52 G 10186101.05 10186101.12 10186101.20 0.0289 0.0254

Moon 23178-01-09 02:52 G 10186658.52 10186658.62 10186658.73 0.2677 0.1142

Earth 23178-01-09 03:50 G 10186658.55 10186658.66 10186658.77 0.2677 0.1088 *

Jupiter 23178-09-30 09:21 G 10186922.75 10186922.89 10186923.03 0.0505 0.0027

Mars 23180-11-01 15:50 G 10187686.03 10187686.16 10187686.30 0.1898 0.0185

Venus 23183-03-31 03:36 G 10188565.57 10188565.65 10188565.73 0.3692 0.2695

Mars 23183-07-30 04:19 G 10188686.56 10188686.68 10188686.80 0.1637 0.0795

Jupiter 23184-11-30 04:04 G 10189175.58 10189175.67 10189175.75 0.0521 0.0442

Jupiter 23185-02-28 04:48 G 10189265.57 10189265.70 10189265.83 0.0524 0.0319

Uranus 23185-08-23 15:36 G 10189442.08 10189442.15 10189442.22 0.0133 0.0118

Uranus 23185-11-19 20:24 G 10189530.25 10189530.35 10189530.47 0.0133 0.0098

Uranus 23186-02-16 01:26 G 10189618.44 10189618.56 10189618.70 0.0133 0.0078

Uranus 23186-05-15 06:28 G 10189706.63 10189706.77 10189706.92 0.0133 0.0058

Uranus 23186-08-11 11:31 G 10189794.82 10189794.98 10189795.14 0.0133 0.0038

Uranus 23186-11-07 16:19 G 10189883.02 10189883.18 10189883.35 0.0133 0.0019

Uranus 23187-02-03 21:21 G 10189971.22 10189971.39 10189971.55 0.0133 0.0003

Uranus 23187-05-03 01:55 G 10190059.43 10190059.58 10190059.75 0.0133 0.0021

Uranus 23187-07-30 06:43 G 10190147.63 10190147.78 10190147.94 0.0133 0.0040

Uranus 23187-10-26 11:31 G 10190235.84 10190235.98 10190236.13 0.0133 0.0059

Uranus 23188-01-22 16:04 G 10190324.05 10190324.17 10190324.31 0.0133 0.0078

Uranus 23188-04-19 20:38 G 10190412.26 10190412.36 10190412.48 0.0133 0.0097

Moon 23188-07-13 08:24 G 10190496.72 10190496.85 10190496.98 0.2656 0.1002

Earth 23188-07-13 09:36 G 10190496.78 10190496.90 10190497.02 0.2654 0.1231 *

Uranus 23188-07-17 01:26 G 10190500.49 10190500.56 10190500.64 0.0133 0.0115

Venus 23188-10-14 00:28 G 10190589.40 10190589.52 10190589.64 0.3692 0.0729

Mars 23190-03-24 19:12 G 10191116.19 10191116.30 10191116.40 0.1890 0.1153

Venus 23190-04-26 18:14 G 10191149.17 10191149.26 10191149.35 0.3679 0.2486

Jupiter 23190-07-19 12:57 G 10191232.90 10191233.04 10191233.17 0.0506 0.0117

Saturn 23190-07-19 18:43 G 10191233.21 10191233.28 10191233.36 0.0269 0.0229

Saturn 23190-10-16 07:12 G 10191321.68 10191321.80 10191321.93 0.0270 0.0135

Jupiter 23190-10-16 22:33 G 10191322.39 10191322.44 10191322.49 0.0502 0.0466

Moon 23191-01-11 23:02 G 10191409.35 10191409.46 10191409.58 0.2682 0.0421

Earth 23191-01-11 23:45 G 10191409.37 10191409.49 10191409.61 0.2677 0.0539 *

Saturn 23191-01-12 19:55 G 10191410.19 10191410.33 10191410.48 0.0270 0.0039

Saturn 23191-04-11 09:07 G 10191498.73 10191498.88 10191499.02 0.0270 0.0061

Saturn 23191-07-08 22:19 G 10191587.31 10191587.43 10191587.55 0.0271 0.0162

Saturn 23191-10-05 11:45 G 10191675.97 10191675.99 10191676.02 0.0271 0.0266

Mars 23192-12-19 12:14 G 10192116.88 10192117.01 10192117.15 0.1642 0.0049

Venus 23194-04-29 20:52 G 10192613.26 10192613.37 10192613.48 0.3693 0.1134

Venus 23195-11-10 14:38 G 10193172.99 10193173.11 10193173.23 0.3678 0.0672

Neptune 23196-10-22 10:19 G 10193519.88 10193519.93 10193519.97 0.0088 0.0084

Jupiter 23196-12-17 03:50 G 10193575.50 10193575.66 10193575.82 0.0523 0.0124

Neptune 23197-01-18 11:45 G 10193607.93 10193607.99 10193608.07 0.0088 0.0077

Neptune 23197-04-16 13:26 G 10193695.98 10193696.06 10193696.16 0.0088 0.0069

Neptune 23197-07-13 15:07 G 10193784.04 10193784.13 10193784.24 0.0088 0.0062

Neptune 23197-10-09 16:48 G 10193872.10 10193872.20 10193872.32 0.0088 0.0055

Neptune 23198-01-05 18:28 G 10193960.16 10193960.27 10193960.40 0.0088 0.0048

Neptune 23198-04-03 20:24 G 10194048.22 10194048.35 10194048.48 0.0088 0.0040

Neptune 23198-06-30 22:04 G 10194136.29 10194136.42 10194136.56 0.0088 0.0033

Neptune 23198-09-26 23:45 G 10194224.36 10194224.49 10194224.64 0.0088 0.0026

Neptune 23198-12-24 01:40 G 10194312.43 10194312.57 10194312.72 0.0088 0.0018

Neptune 23199-03-22 03:21 G 10194400.50 10194400.64 10194400.79 0.0088 0.0011

Neptune 23199-06-18 05:16 G 10194488.57 10194488.72 10194488.87 0.0088 0.0004

Neptune 23199-09-14 06:57 G 10194576.64 10194576.79 10194576.94 0.0088 0.0004

Venus 23199-11-13 17:02 G 10194637.14 10194637.21 10194637.28 0.3693 0.2934

Neptune 23199-12-11 08:52 G 10194664.72 10194664.87 10194665.01 0.0088 0.0011

Neptune 23200-03-08 10:19 G 10194752.79 10194752.93 10194753.09 0.0088 0.0020

Neptune 23200-06-04 12:14 G 10194840.87 10194841.01 10194841.16 0.0088 0.0026

Neptune 23200-08-31 13:55 G 10194928.95 10194929.08 10194929.23 0.0088 0.0034

Neptune 23200-11-27 15:50 G 10195017.03 10195017.16 10195017.30 0.0088 0.0041

Neptune 23201-02-23 17:31 G 10195105.12 10195105.23 10195105.37 0.0088 0.0049

Neptune 23201-05-22 19:26 G 10195193.20 10195193.31 10195193.43 0.0088 0.0057

Venus 23201-05-26 11:16 G 10195196.86 10195196.97 10195197.09 0.3678 0.1246

Neptune 23201-08-18 21:07 G 10195281.29 10195281.38 10195281.50 0.0088 0.0064

Neptune 23201-11-14 23:02 G 10195369.39 10195369.46 10195369.56 0.0088 0.0072

Neptune 23202-02-11 00:57 G 10195457.49 10195457.54 10195457.61 0.0088 0.0079

Jupiter 23202-05-07 16:33 G 10195543.07 10195543.19 10195543.31 0.0507 0.0253

Neptune 23202-05-10 02:38 G 10195545.61 10195545.61 10195545.65 0.0088 0.0087

Mars 23202-05-11 20:24 G 10195547.23 10195547.35 10195547.47 0.1647 0.0752

Jupiter 23202-08-05 02:09 G 10195632.48 10195632.59 10195632.70 0.0503 0.0328

Pluto 23204-01-04 12:00 G 10196149.97 10196150.00 10196150.04 0.0070 0.0067

Moon 23204-01-14 19:40 G 10196160.26 10196160.32 10196160.39 0.2684 0.2213

Earth 23204-01-14 19:55 G 10196160.26 10196160.33 10196160.39 0.2677 0.2210 *

Pluto 23204-04-01 12:28 G 10196237.96 10196238.02 10196238.10 0.0070 0.0058

Pluto 23204-06-28 13:12 G 10196325.96 10196326.05 10196326.15 0.0070 0.0049

Pluto 23204-09-24 13:40 G 10196413.97 10196414.07 10196414.19 0.0070 0.0039

Pluto 23204-12-21 14:09 G 10196501.98 10196502.09 10196502.22 0.0070 0.0030

Saturn 23205-02-24 07:12 G 10196566.68 10196566.80 10196566.93 0.0290 0.0192

Pluto 23205-03-19 14:52 G 10196590.00 10196590.12 10196590.25 0.0070 0.0021

Saturn 23205-05-24 02:24 G 10196655.44 10196655.60 10196655.76 0.0289 0.0053

Pluto 23205-06-15 15:36 G 10196678.02 10196678.15 10196678.28 0.0070 0.0011

Saturn 23205-08-20 20:52 G 10196744.22 10196744.37 10196744.52 0.0289 0.0082

Pluto 23205-09-11 16:19 G 10196766.05 10196766.18 10196766.31 0.0071 0.0002

Saturn 23205-11-17 14:52 G 10196833.02 10196833.12 10196833.23 0.0289 0.0213

Pluto 23205-12-08 16:48 G 10196854.07 10196854.20 10196854.33 0.0071 0.0009

Pluto 23206-03-06 17:16 G 10196942.10 10196942.22 10196942.35 0.0071 0.0019

Pluto 23206-06-02 18:00 G 10197030.13 10197030.25 10197030.37 0.0071 0.0028

Pluto 23206-08-29 18:28 G 10197118.17 10197118.27 10197118.39 0.0071 0.0038

Pluto 23206-11-25 19:12 G 10197206.21 10197206.30 10197206.40 0.0071 0.0048

Venus 23206-12-10 08:24 G 10197220.80 10197220.85 10197220.91 0.3677 0.3242

Pluto 23207-02-21 19:40 G 10197294.26 10197294.32 10197294.41 0.0071 0.0058

Pluto 23207-05-20 20:09 G 10197382.32 10197382.34 10197382.39 0.0071 0.0069

Jupiter 23208-10-05 03:21 G 10197885.48 10197885.64 10197885.81 0.0523 0.0064

Mars 23210-12-11 12:57 G 10198682.98 10198683.04 10198683.11 0.1905 0.1645

Moon 23211-01-07 12:28 G 10198709.97 10198710.02 10198710.07 0.2674 0.2389

Earth 23211-01-07 13:12 G 10198710.00 10198710.05 10198710.11 0.2677 0.2347 *

Mars 23211-10-02 04:33 G 10198977.64 10198977.69 10198977.74 0.1653 0.1516

Jupiter 23214-02-23 20:24 G 10199853.26 10199853.35 10199853.44 0.0507 0.0388

Jupiter 23214-05-24 05:31 G 10199942.60 10199942.73 10199942.86 0.0504 0.0188

Saturn 23219-12-06 19:26 G 10201965.30 10201965.31 10201965.33 0.0270 0.0267

Saturn 23220-03-04 07:40 G 10202053.72 10202053.82 10202053.94 0.0270 0.0174

Mars 23220-05-02 16:19 G 10202113.05 10202113.18 10202113.31 0.1898 0.0331

Saturn 23220-05-31 20:24 G 10202142.21 10202142.35 10202142.49 0.0270 0.0078

Jupiter 23220-07-24 03:21 G 10202195.49 10202195.64 10202195.78 0.0522 0.0244

Saturn 23220-08-28 09:21 G 10202230.74 10202230.89 10202231.03 0.0270 0.0020

Jupiter 23220-10-22 03:36 G 10202285.62 10202285.65 10202285.68 0.0526 0.0513

Saturn 23220-11-24 22:19 G 10202319.30 10202319.43 10202319.57 0.0271 0.0121

Saturn 23221-02-21 11:45 G 10202407.91 10202407.99 10202408.08 0.0271 0.0223

Moon 23221-07-11 13:40 G 10202547.93 10202548.07 10202548.20 0.2651 0.0691

Earth 23221-07-11 14:38 G 10202547.97 10202548.11 10202548.25 0.2654 0.0470 *

Mars 23223-01-28 04:33 G 10203113.57 10203113.69 10203113.80 0.1637 0.0904

Moon 23224-01-10 08:09 G 10203460.73 10203460.84 10203460.95 0.2677 0.0948

Earth 23224-01-10 08:52 G 10203460.76 10203460.87 10203460.99 0.2677 0.0757 *

Jupiter 23226-03-12 08:52 G 10204252.73 10204252.87 10204253.01 0.0504 0.0047

Uranus 23227-08-22 23:31 G 10204781.43 10204781.48 10204781.55 0.0145 0.0131

Uranus 23227-11-19 04:33 G 10204869.59 10204869.69 10204869.79 0.0145 0.0108

Uranus 23228-02-15 09:21 G 10204957.77 10204957.89 10204958.02 0.0145 0.0085

Uranus 23228-05-13 14:24 G 10205045.96 10205046.10 10205046.23 0.0145 0.0061

Uranus 23228-08-09 19:12 G 10205134.16 10205134.30 10205134.45 0.0145 0.0038

Uranus 23228-11-06 00:14 G 10205222.36 10205222.51 10205222.66 0.0145 0.0015

Uranus 23229-02-02 05:16 G 10205310.57 10205310.72 10205310.87 0.0145 0.0009

Uranus 23229-05-01 10:19 G 10205398.79 10205398.93 10205399.08 0.0145 0.0033

Uranus 23229-07-28 15:21 G 10205487.01 10205487.14 10205487.29 0.0145 0.0057

Mars 23229-09-22 19:12 G 10205543.19 10205543.30 10205543.42 0.1890 0.1018

Uranus 23229-10-24 20:38 G 10205575.23 10205575.36 10205575.49 0.0145 0.0081

Uranus 23230-01-21 01:55 G 10205663.47 10205663.58 10205663.68 0.0145 0.0106

Uranus 23230-04-19 06:57 G 10205751.73 10205751.79 10205751.86 0.0145 0.0130

Jupiter 23232-05-12 02:52 G 10206505.53 10206505.62 10206505.72 0.0521 0.0427

Mars 23232-06-19 12:28 G 10206543.89 10206544.02 10206544.16 0.1642 0.0131

Jupiter 23232-08-10 03:50 G 10206595.54 10206595.66 10206595.78 0.0524 0.0334

Saturn 23234-07-14 05:16 G 10207298.64 10207298.72 10207298.81 0.0290 0.0246

Moon 23234-07-14 14:09 G 10207298.98 10207299.09 10207299.20 0.2657 0.1601

Earth 23234-07-14 15:21 G 10207299.03 10207299.14 10207299.24 0.2654 0.1661 *

Saturn 23234-10-11 00:43 G 10207387.38 10207387.53 10207387.68 0.0290 0.0106

Saturn 23235-01-07 19:26 G 10207476.15 10207476.31 10207476.47 0.0289 0.0032

Saturn 23235-04-06 13:40 G 10207564.94 10207565.07 10207565.20 0.0289 0.0165

Moon 23237-01-12 04:19 G 10208211.57 10208211.68 10208211.79 0.2683 0.0879

Earth 23237-01-12 04:48 G 10208211.59 10208211.70 10208211.82 0.2677 0.0880 *

Jupiter 23237-12-29 11:31 G 10208562.85 10208562.98 10208563.12 0.0506 0.0110

Jupiter 23238-03-28 21:21 G 10208652.34 10208652.39 10208652.43 0.0502 0.0474

Venus 23239-11-05 02:24 G 10209238.50 10209238.60 10209238.71 0.3692 0.2057

Venus 23241-05-17 20:52 G 10209798.36 10209798.37 10209798.37 0.3679 0.3674

Mars 23241-11-09 20:38 G 10209974.23 10209974.36 10209974.48 0.1647 0.0636

Jupiter 23244-05-29 03:21 G 10210905.49 10210905.64 10210905.80 0.0523 0.0148

Venus 23245-05-20 23:16 G 10211262.35 10211262.47 10211262.59 0.3692 0.0157

Venus 23246-12-01 16:48 G 10211822.10 10211822.20 10211822.31 0.3679 0.1913

Saturn 23249-07-22 10:48 G 10212785.85 10212785.95 10212786.05 0.0269 0.0194

Jupiter 23249-10-17 15:07 G 10212873.01 10212873.13 10212873.25 0.0507 0.0252

Saturn 23249-10-18 23:16 G 10212874.34 10212874.47 10212874.61 0.0270 0.0099

Jupiter 23250-01-15 00:28 G 10212962.41 10212962.52 10212962.63 0.0503 0.0329

Earth 23250-01-15 00:57 G 10212962.51 10212962.54 10212962.57 0.2677 0.2555 *

Moon 23250-01-15 00:57 G 10212962.51 10212962.54 10212962.58 0.2684 0.2536 *

Saturn 23250-01-15 12:14 G 10212962.86 10212963.01 10212963.16 0.0270 0.0002

Saturn 23250-04-14 01:12 G 10213051.42 10213051.55 10213051.69 0.0270 0.0099

Mars 23250-06-11 13:26 G 10213110.02 10213110.06 10213110.10 0.1905 0.1798

Saturn 23250-07-11 14:38 G 10213140.01 10213140.11 10213140.21 0.0270 0.0201

Venus 23250-12-04 19:40 G 10213286.21 10213286.32 10213286.42 0.3693 0.1737

Mars 23251-04-02 04:48 G 10213404.63 10213404.70 10213404.76 0.1652 0.1406

Venus 23252-06-16 13:26 G 10213845.94 10213846.06 10213846.18 0.3678 0.0074

Moon 23254-07-09 18:43 G 10214599.22 10214599.28 10214599.34 0.2648 0.2345

Earth 23254-07-09 19:26 G 10214599.24 10214599.31 10214599.38 0.2654 0.2233 *

Jupiter 23256-03-17 02:09 G 10215215.43 10215215.59 10215215.75 0.0522 0.0051

Venus 23256-06-19 15:36 G 10215310.12 10215310.15 10215310.18 0.3693 0.3503

Moon 23257-01-07 17:31 G 10215512.16 10215512.23 10215512.30 0.2674 0.2158

Earth 23257-01-07 18:28 G 10215512.19 10215512.27 10215512.34 0.2677 0.2016 *

Venus 23257-12-31 10:19 G 10215869.82 10215869.93 10215870.03 0.3678 0.1884

Mars 23259-11-01 16:33 G 10216540.06 10216540.19 10216540.33 0.1898 0.0483

Jupiter 23261-08-05 18:57 G 10217183.20 10217183.29 10217183.37 0.0508 0.0387

Jupiter 23261-11-03 04:04 G 10217272.54 10217272.67 10217272.80 0.0504 0.0191

Mars 23262-07-29 04:48 G 10217540.59 10217540.70 10217540.80 0.1637 0.1021

Saturn 23263-12-01 05:31 G 10218030.71 10218030.73 10218030.75 0.0290 0.0286

Saturn 23264-02-28 00:43 G 10218119.39 10218119.53 10218119.68 0.0290 0.0145

Saturn 23264-05-26 19:40 G 10218208.16 10218208.32 10218208.49 0.0289 0.0009

Saturn 23264-08-23 14:09 G 10218296.95 10218297.09 10218297.23 0.0289 0.0128

Saturn 23264-11-20 07:55 G 10218385.77 10218385.83 10218385.91 0.0289 0.0258

Moon 23267-07-12 19:12 G 10219350.16 10219350.30 10219350.44 0.2653 0.0123

Earth 23267-07-12 20:24 G 10219350.21 10219350.35 10219350.49 0.2654 0.0036 *

Jupiter 23268-01-04 01:40 G 10219525.42 10219525.57 10219525.71 0.0522 0.0239

Jupiter 23268-04-03 01:55 G 10219615.56 10219615.58 10219615.61 0.0525 0.0516

Mars 23269-03-23 19:40 G 10219970.20 10219970.32 10219970.44 0.1891 0.0860

Uranus 23269-06-16 17:45 G 10220055.23 10220055.24 10220055.26 0.0133 0.0132

Uranus 23269-09-12 22:48 G 10220143.37 10220143.45 10220143.55 0.0133 0.0112

Uranus 23269-12-10 03:50 G 10220231.55 10220231.66 10220231.79 0.0133 0.0092

Moon 23270-01-10 13:12 G 10220262.93 10220263.05 10220263.17 0.2678 0.0471

Earth 23270-01-10 13:55 G 10220262.97 10220263.08 10220263.20 0.2677 0.0437 *

Uranus 23270-03-08 08:52 G 10220319.74 10220319.87 10220320.02 0.0133 0.0072

Uranus 23270-06-04 13:55 G 10220407.93 10220408.08 10220408.23 0.0133 0.0052

Uranus 23270-08-31 18:57 G 10220496.13 10220496.29 10220496.45 0.0133 0.0032

Uranus 23270-11-27 23:45 G 10220584.33 10220584.49 10220584.65 0.0133 0.0012

Uranus 23271-02-24 04:33 G 10220672.53 10220672.69 10220672.85 0.0133 0.0007

Uranus 23271-05-23 09:21 G 10220760.73 10220760.89 10220761.05 0.0133 0.0026

Uranus 23271-08-19 13:55 G 10220848.94 10220849.08 10220849.24 0.0133 0.0046

Uranus 23271-11-15 18:43 G 10220937.15 10220937.28 10220937.43 0.0133 0.0065

Mars 23271-12-19 12:43 G 10220970.89 10220971.03 10220971.16 0.1642 0.0245

Uranus 23272-02-11 23:16 G 10221025.36 10221025.47 10221025.60 0.0133 0.0084

Uranus 23272-05-10 04:04 G 10221113.57 10221113.67 10221113.78 0.0133 0.0102

Uranus 23272-08-06 08:38 G 10221201.80 10221201.86 10221201.93 0.0133 0.0121

Jupiter 23273-08-22 07:40 G 10221582.68 10221582.82 10221582.96 0.0505 0.0053

Saturn 23278-12-09 11:31 G 10223517.92 10223517.98 10223518.06 0.0270 0.0231

Saturn 23279-03-08 00:14 G 10223606.38 10223606.51 10223606.63 0.0270 0.0136

Saturn 23279-06-04 12:43 G 10223694.89 10223695.03 10223695.18 0.0270 0.0040

Saturn 23279-09-01 01:40 G 10223783.43 10223783.57 10223783.72 0.0270 0.0059

Jupiter 23279-10-23 01:12 G 10223835.46 10223835.55 10223835.65 0.0521 0.0424

Saturn 23279-11-28 14:52 G 10223872.00 10223872.12 10223872.24 0.0271 0.0160

Jupiter 23280-01-21 02:09 G 10223925.47 10223925.59 10223925.71 0.0525 0.0339

Saturn 23280-02-25 04:19 G 10223960.66 10223960.68 10223960.72 0.0271 0.0264

Neptune 23280-04-16 12:28 G 10224012.01 10224012.02 10224012.04 0.0089 0.0089

Neptune 23280-07-13 15:07 G 10224100.06 10224100.13 10224100.21 0.0089 0.0080

Moon 23280-07-14 19:55 G 10224101.23 10224101.33 10224101.42 0.2657 0.1854

Earth 23280-07-14 21:07 G 10224101.29 10224101.38 10224101.46 0.2654 0.2089 *

Neptune 23280-10-09 17:45 G 10224188.14 10224188.24 10224188.35 0.0089 0.0071

Neptune 23281-01-05 20:38 G 10224276.24 10224276.36 10224276.48 0.0089 0.0062

Neptune 23281-04-03 23:16 G 10224364.33 10224364.47 10224364.61 0.0089 0.0053

Mars 23281-05-10 20:38 G 10224401.24 10224401.36 10224401.49 0.1647 0.0528

Neptune 23281-07-01 01:55 G 10224452.43 10224452.58 10224452.73 0.0089 0.0044

Neptune 23281-09-27 04:19 G 10224540.53 10224540.68 10224540.85 0.0089 0.0035

Neptune 23281-12-24 06:57 G 10224628.64 10224628.79 10224628.96 0.0089 0.0026

Neptune 23282-03-22 09:36 G 10224716.74 10224716.90 10224717.07 0.0089 0.0017

Neptune 23282-06-18 12:28 G 10224804.85 10224805.02 10224805.18 0.0089 0.0008

Neptune 23282-09-14 14:52 G 10224892.96 10224893.12 10224893.29 0.0089 0.0002

Neptune 23282-12-11 17:31 G 10224981.06 10224981.23 10224981.40 0.0089 0.0009

Moon 23283-01-13 09:36 G 10225013.79 10225013.90 10225014.01 0.2683 0.1088

Earth 23283-01-13 09:50 G 10225013.81 10225013.91 10225014.02 0.2677 0.1222 *

Neptune 23283-03-09 19:55 G 10225069.17 10225069.33 10225069.50 0.0089 0.0019

Neptune 23283-06-05 22:33 G 10225157.28 10225157.44 10225157.60 0.0089 0.0027

Neptune 23283-09-02 01:12 G 10225245.40 10225245.55 10225245.70 0.0089 0.0035

Neptune 23283-11-29 03:21 G 10225333.51 10225333.64 10225333.80 0.0089 0.0045

Neptune 23284-02-25 06:00 G 10225421.63 10225421.75 10225421.89 0.0089 0.0053

Neptune 23284-05-23 08:24 G 10225509.74 10225509.85 10225509.98 0.0089 0.0061

Neptune 23284-08-19 11:02 G 10225597.87 10225597.96 10225598.07 0.0089 0.0070

Neptune 23284-11-15 13:12 G 10225685.99 10225686.05 10225686.15 0.0089 0.0079

Neptune 23285-02-11 15:50 G 10225774.13 10225774.16 10225774.21 0.0089 0.0087

Jupiter 23285-06-10 11:02 G 10225892.82 10225892.96 10225893.10 0.0505 0.0090

Jupiter 23285-09-07 20:38 G 10225982.34 10225982.36 10225982.39 0.0502 0.0493

Pluto 23290-02-13 17:31 G 10227602.16 10227602.23 10227602.35 0.0074 0.0064

Pluto 23290-05-12 20:24 G 10227690.21 10227690.35 10227690.51 0.0074 0.0047

Pluto 23290-08-08 22:48 G 10227778.29 10227778.45 10227778.65 0.0073 0.0031

Mars 23290-10-01 04:48 G 10227831.62 10227831.70 10227831.79 0.1652 0.1294

Pluto 23290-11-05 01:26 G 10227866.38 10227866.56 10227866.76 0.0073 0.0014

Venus 23290-11-26 04:19 G 10227887.64 10227887.68 10227887.73 0.3691 0.3423

Pluto 23291-02-01 04:04 G 10227954.48 10227954.67 10227954.87 0.0073 0.0003

Pluto 23291-04-30 06:43 G 10228042.59 10228042.78 10228042.97 0.0073 0.0018

Pluto 23291-07-27 09:07 G 10228130.71 10228130.88 10228131.06 0.0073 0.0034

Pluto 23291-10-23 11:31 G 10228218.84 10228218.98 10228219.13 0.0073 0.0050

Jupiter 23291-11-09 02:09 G 10228235.44 10228235.59 10228235.75 0.0523 0.0160

Pluto 23292-01-19 13:55 G 10228307.01 10228307.08 10228307.17 0.0073 0.0066

Saturn 23293-07-16 22:48 G 10228851.34 10228851.45 10228851.58 0.0290 0.0199

Saturn 23293-10-13 18:00 G 10228940.09 10228940.25 10228940.41 0.0290 0.0059

Saturn 23294-01-10 12:43 G 10229028.88 10229029.03 10229029.19 0.0289 0.0077

Saturn 23294-04-09 06:57 G 10229117.68 10229117.79 10229117.90 0.0289 0.0209

Venus 23296-06-11 01:26 G 10229911.44 10229911.56 10229911.67 0.3692 0.1426

Jupiter 23297-03-29 13:40 G 10230202.95 10230203.07 10230203.19 0.0507 0.0245

Jupiter 23297-06-26 23:02 G 10230292.36 10230292.46 10230292.57 0.0503 0.0335

Venus 23297-12-22 19:26 G 10230471.25 10230471.31 10230471.37 0.3679 0.3106

Mars 23299-05-02 16:48 G 10230967.07 10230967.20 10230967.33 0.1898 0.0616

Moon 23300-07-11 00:28 G 10231401.42 10231401.52 10231401.62 0.2649 0.1867

Earth 23300-07-11 01:12 G 10231401.45 10231401.55 10231401.65 0.2655 0.1785 *

Venus 23301-12-26 22:04 G 10231935.30 10231935.42 10231935.54 0.3693 0.0507

Mars 23302-01-28 05:02 G 10231967.61 10231967.71 10231967.81 0.1637 0.1140

Moon 23303-01-09 22:33 G 10232314.35 10232314.44 10232314.53 0.2674 0.1769

Earth 23303-01-09 23:31 G 10232314.39 10232314.48 10232314.57 0.2677 0.1687 *

Venus 23303-07-09 15:36 G 10232495.04 10232495.15 10232495.27 0.3679 0.1312

Jupiter 23303-08-29 01:40 G 10232545.41 10232545.57 10232545.73 0.0522 0.0028

Venus 23307-07-12 18:14 G 10233959.17 10233959.26 10233959.35 0.3693 0.2330

Saturn 23308-04-28 14:38 G 10234250.07 10234250.11 10234250.17 0.0269 0.0250

Saturn 23308-07-26 03:07 G 10234338.52 10234338.63 10234338.75 0.0269 0.0156

Mars 23308-09-22 20:09 G 10234397.21 10234397.34 10234397.47 0.1891 0.0695

Saturn 23308-10-22 15:50 G 10234427.02 10234427.16 10234427.30 0.0270 0.0059

Jupiter 23309-01-16 17:02 G 10234513.13 10234513.21 10234513.30 0.0508 0.0388

Saturn 23309-01-19 04:48 G 10234515.55 10234515.70 10234515.84 0.0270 0.0039

Venus 23309-01-22 12:14 G 10234518.89 10234519.01 10234519.13 0.3678 0.0572

Jupiter 23309-04-16 02:09 G 10234602.46 10234602.59 10234602.73 0.0504 0.0190

Saturn 23309-04-17 18:00 G 10234604.12 10234604.25 10234604.37 0.0270 0.0140

Saturn 23309-07-15 07:12 G 10234692.74 10234692.80 10234692.87 0.0270 0.0242

Mars 23311-06-20 12:57 G 10235397.91 10235398.04 10235398.17 0.1641 0.0364

Uranus 23311-09-13 06:43 G 10235482.72 10235482.78 10235482.86 0.0145 0.0125

Uranus 23311-12-10 11:31 G 10235570.88 10235570.98 10235571.09 0.0145 0.0103

Uranus 23312-03-07 16:33 G 10235659.07 10235659.19 10235659.32 0.0145 0.0080

Uranus 23312-06-03 21:21 G 10235747.26 10235747.39 10235747.53 0.0145 0.0057

Uranus 23312-08-31 02:24 G 10235835.46 10235835.60 10235835.75 0.0145 0.0033

Uranus 23312-11-27 07:26 G 10235923.66 10235923.81 10235923.96 0.0145 0.0009

Uranus 23313-02-23 12:28 G 10236011.87 10236012.02 10236012.17 0.0145 0.0014

Uranus 23313-05-22 17:31 G 10236100.08 10236100.23 10236100.38 0.0145 0.0038

Moon 23313-07-14 00:57 G 10236152.40 10236152.54 10236152.68 0.2654 0.0209

Earth 23313-07-14 02:09 G 10236152.46 10236152.59 10236152.73 0.2654 0.0415 *

Uranus 23313-08-18 22:33 G 10236188.31 10236188.44 10236188.58 0.0145 0.0063

Uranus 23313-11-15 03:50 G 10236276.54 10236276.66 10236276.78 0.0145 0.0087

Uranus 23314-02-11 08:52 G 10236364.78 10236364.87 10236364.97 0.0145 0.0111

Uranus 23314-05-10 14:09 G 10236453.04 10236453.09 10236453.15 0.0145 0.0136

Venus 23314-08-08 09:21 G 10236542.80 10236542.89 10236542.97 0.3677 0.2545

Jupiter 23315-06-17 00:14 G 10236855.36 10236855.51 10236855.65 0.0521 0.0230

Jupiter 23315-09-15 00:28 G 10236945.51 10236945.52 10236945.53 0.0525 0.0524

Moon 23316-01-12 18:28 G 10237065.15 10237065.27 10237065.39 0.2680 0.0235

Earth 23316-01-12 19:12 G 10237065.18 10237065.30 10237065.42 0.2677 0.0086 *

Mars 23320-11-09 20:52 G 10238828.24 10238828.37 10238828.50 0.1647 0.0416

Jupiter 23321-02-02 06:00 G 10238912.61 10238912.75 10238912.89 0.0505 0.0054

Saturn 23322-12-04 23:31 G 10239583.39 10239583.48 10239583.58 0.0290 0.0235

Saturn 23323-03-03 18:43 G 10239672.13 10239672.28 10239672.44 0.0290 0.0095

Saturn 23323-05-31 13:40 G 10239760.91 10239761.07 10239761.23 0.0289 0.0043

Saturn 23323-08-28 07:55 G 10239849.70 10239849.83 10239849.95 0.0289 0.0175

Moon 23326-07-17 01:40 G 10240903.52 10240903.57 10240903.62 0.2657 0.2463

Earth 23326-07-17 02:38 G 10240903.57 10240903.61 10240903.66 0.2654 0.2510 *

Jupiter 23327-04-04 23:16 G 10241165.38 10241165.47 10241165.57 0.0521 0.0422

Jupiter 23327-07-04 00:14 G 10241255.39 10241255.51 10241255.63 0.0524 0.0340

Moon 23329-01-14 14:38 G 10241816.02 10241816.11 10241816.21 0.2683 0.1580

Earth 23329-01-14 15:07 G 10241816.03 10241816.13 10241816.23 0.2677 0.1558 *

Mars 23330-04-02 05:02 G 10242258.62 10242258.71 10242258.80 0.1652 0.1185

Jupiter 23332-11-21 09:21 G 10243222.76 10243222.89 10243223.03 0.0506 0.0089

Jupiter 23333-02-18 19:12 G 10243312.28 10243312.30 10243312.32 0.0502 0.0496

Saturn 23337-12-13 04:19 G 10245070.58 10245070.68 10245070.78 0.0270 0.0190

Saturn 23338-03-11 16:48 G 10245159.07 10245159.20 10245159.34 0.0270 0.0095

Saturn 23338-06-08 05:31 G 10245247.59 10245247.73 10245247.88 0.0270 0.0009

Saturn 23338-09-04 18:43 G 10245336.14 10245336.28 10245336.41 0.0270 0.0102

Mars 23338-11-01 17:16 G 10245394.10 10245394.22 10245394.35 0.1898 0.0784

Saturn 23338-12-02 07:55 G 10245424.74 10245424.83 10245424.93 0.0271 0.0204

Jupiter 23339-04-22 00:14 G 10245565.35 10245565.51 10245565.66 0.0524 0.0159

Mars 23341-07-29 05:16 G 10246394.63 10246394.72 10246394.80 0.1636 0.1255

Jupiter 23344-09-09 12:57 G 10247532.92 10247533.04 10247533.17 0.0506 0.0228

Jupiter 23344-12-07 22:19 G 10247622.33 10247622.43 10247622.53 0.0503 0.0352

Moon 23346-07-12 06:14 G 10248203.64 10248203.76 10248203.88 0.2650 0.1420

Earth 23346-07-12 07:12 G 10248203.68 10248203.80 10248203.92 0.2655 0.1332 *

Venus 23347-07-04 03:21 G 10248560.56 10248560.64 10248560.72 0.3692 0.2771

Mars 23348-03-23 20:09 G 10248824.21 10248824.34 10248824.47 0.1891 0.0572

Moon 23349-01-10 03:36 G 10249116.56 10249116.65 10249116.75 0.2675 0.1475

Earth 23349-01-10 04:33 G 10249116.59 10249116.69 10249116.79 0.2677 0.1356 *

Mars 23350-12-19 12:57 G 10249824.91 10249825.04 10249825.17 0.1642 0.0478

Jupiter 23351-02-08 00:14 G 10249875.35 10249875.51 10249875.67 0.0523 0.0020

Saturn 23352-04-22 21:36 G 10250315.40 10250315.40 10250315.40 0.0290 0.0290

Saturn 23352-07-20 17:02 G 10250404.07 10250404.21 10250404.35 0.0290 0.0148

Saturn 23352-10-17 12:00 G 10250492.84 10250493.00 10250493.16 0.0290 0.0009

Saturn 23353-01-14 06:28 G 10250581.63 10250581.77 10250581.92 0.0289 0.0126

Venus 23353-01-17 00:14 G 10250584.39 10250584.51 10250584.63 0.3692 0.0790

Saturn 23353-04-13 00:28 G 10250670.45 10250670.52 10250670.59 0.0289 0.0257

Uranus 23353-07-08 01:26 G 10250756.51 10250756.56 10250756.62 0.0133 0.0125

Uranus 23353-10-04 06:28 G 10250844.68 10250844.77 10250844.88 0.0133 0.0105

Uranus 23353-12-31 11:31 G 10250932.86 10250932.98 10250933.11 0.0133 0.0085

Uranus 23354-03-29 16:33 G 10251021.05 10251021.19 10251021.34 0.0133 0.0065

Uranus 23354-06-25 21:36 G 10251109.25 10251109.40 10251109.55 0.0133 0.0045

Venus 23354-07-30 18:00 G 10251144.17 10251144.25 10251144.34 0.3679 0.2532

Uranus 23354-09-22 02:24 G 10251197.44 10251197.60 10251197.77 0.0133 0.0025

Uranus 23354-12-19 07:26 G 10251285.64 10251285.81 10251285.97 0.0133 0.0006

Uranus 23355-03-17 12:14 G 10251373.85 10251374.01 10251374.17 0.0133 0.0014

Uranus 23355-06-13 16:48 G 10251462.05 10251462.20 10251462.36 0.0133 0.0034

Uranus 23355-09-09 21:36 G 10251550.26 10251550.40 10251550.55 0.0133 0.0052

Uranus 23355-12-07 02:24 G 10251638.47 10251638.60 10251638.74 0.0133 0.0071

Uranus 23356-03-04 06:57 G 10251726.68 10251726.79 10251726.91 0.0133 0.0090

Uranus 23356-05-31 11:31 G 10251814.90 10251814.98 10251815.08 0.0133 0.0109

Jupiter 23356-06-28 15:36 G 10251843.06 10251843.15 10251843.24 0.0507 0.0383

Uranus 23356-08-27 15:50 G 10251903.14 10251903.16 10251903.22 0.0133 0.0128

Jupiter 23356-09-26 00:43 G 10251932.40 10251932.53 10251932.66 0.0504 0.0195

Venus 23358-08-02 20:38 G 10252608.25 10252608.36 10252608.48 0.3693 0.1117

Moon 23359-07-15 06:43 G 10252954.64 10252954.78 10252954.91 0.2655 0.0700

Earth 23359-07-15 07:55 G 10252954.70 10252954.83 10252954.96 0.2654 0.0840 *

Venus 23360-02-13 14:24 G 10253167.98 10253168.10 10253168.22 0.3678 0.0705

Mars 23360-05-10 21:07 G 10253255.25 10253255.38 10253255.51 0.1647 0.0296

Neptune 23361-07-20 09:21 G 10253690.84 10253690.89 10253690.94 0.0088 0.0081

Neptune 23361-10-16 10:48 G 10253778.89 10253778.95 10253779.04 0.0088 0.0075

Neptune 23362-01-12 12:28 G 10253866.94 10253867.02 10253867.13 0.0088 0.0068

Moon 23362-01-12 23:31 G 10253867.36 10253867.48 10253867.60 0.2681 0.0194

Earth 23362-01-13 00:14 G 10253867.39 10253867.51 10253867.63 0.2677 0.0255 *

Neptune 23362-04-10 14:09 G 10253955.00 10253955.09 10253955.21 0.0088 0.0060

Neptune 23362-07-07 15:50 G 10254043.06 10254043.16 10254043.29 0.0088 0.0053

Neptune 23362-10-03 17:45 G 10254131.12 10254131.24 10254131.37 0.0088 0.0046

Jupiter 23362-11-26 23:31 G 10254185.33 10254185.48 10254185.63 0.0521 0.0210

Neptune 23362-12-30 19:26 G 10254219.19 10254219.31 10254219.45 0.0088 0.0038

Neptune 23363-03-28 21:07 G 10254307.25 10254307.38 10254307.53 0.0088 0.0031

Neptune 23363-06-24 22:48 G 10254395.32 10254395.45 10254395.60 0.0088 0.0025

Neptune 23363-09-21 00:43 G 10254483.39 10254483.53 10254483.68 0.0088 0.0016

Neptune 23363-12-18 02:24 G 10254571.46 10254571.60 10254571.75 0.0088 0.0010

Venus 23364-02-16 17:02 G 10254632.14 10254632.21 10254632.28 0.3693 0.2920

Neptune 23364-03-15 04:19 G 10254659.53 10254659.68 10254659.83 0.0088 0.0002

Neptune 23364-06-11 06:00 G 10254747.60 10254747.75 10254747.90 0.0088 0.0006

Neptune 23364-09-07 07:55 G 10254835.68 10254835.83 10254835.97 0.0088 0.0013

Neptune 23364-12-04 09:21 G 10254923.76 10254923.89 10254924.04 0.0088 0.0021

Neptune 23365-03-02 11:16 G 10255011.83 10255011.97 10255012.11 0.0088 0.0028

Neptune 23365-05-29 12:57 G 10255099.91 10255100.04 10255100.18 0.0088 0.0036

Neptune 23365-08-25 14:52 G 10255187.99 10255188.12 10255188.25 0.0088 0.0043

Venus 23365-08-29 11:16 G 10255191.85 10255191.97 10255192.08 0.3678 0.1215

Neptune 23365-11-21 16:33 G 10255276.08 10255276.19 10255276.32 0.0088 0.0051

Neptune 23366-02-17 18:28 G 10255364.16 10255364.27 10255364.39 0.0088 0.0058

Neptune 23366-05-16 20:09 G 10255452.25 10255452.34 10255452.45 0.0088 0.0066

Neptune 23366-08-12 21:50 G 10255540.35 10255540.41 10255540.51 0.0088 0.0074

Neptune 23366-11-09 00:00 G 10255628.45 10255628.50 10255628.56 0.0088 0.0081

Saturn 23367-05-02 07:26 G 10255802.72 10255802.81 10255802.90 0.0269 0.0209

Saturn 23367-07-29 19:55 G 10255891.20 10255891.33 10255891.46 0.0270 0.0114

Saturn 23367-10-26 08:38 G 10255979.72 10255979.86 10255980.01 0.0270 0.0018

Saturn 23368-01-22 21:36 G 10256068.26 10256068.40 10256068.55 0.0270 0.0083

Saturn 23368-04-20 11:02 G 10256156.85 10256156.96 10256157.07 0.0270 0.0184

Jupiter 23368-07-15 04:04 G 10256242.53 10256242.67 10256242.81 0.0505 0.0049

Mars 23369-10-01 05:16 G 10256685.62 10256685.72 10256685.82 0.1652 0.1071

Venus 23371-03-15 08:09 G 10257215.78 10257215.84 10257215.90 0.3677 0.3207

Jupiter 23374-09-14 21:50 G 10258495.31 10258495.41 10258495.51 0.0520 0.0415

Jupiter 23374-12-13 22:33 G 10258585.33 10258585.44 10258585.56 0.0524 0.0346

Moon 23375-01-15 20:09 G 10258618.25 10258618.34 10258618.42 0.2683 0.1829

Earth 23375-01-15 20:09 G 10258618.26 10258618.34 10258618.43 0.2677 0.1909 *

Mars 23378-05-02 17:31 G 10259821.11 10259821.23 10259821.35 0.1898 0.0923

Jupiter 23380-05-03 07:40 G 10260552.68 10260552.82 10260552.96 0.0506 0.0090

Jupiter 23380-07-31 17:16 G 10260642.20 10260642.22 10260642.25 0.0503 0.0494

Mars 23381-01-27 05:16 G 10260821.65 10260821.72 10260821.80 0.1636 0.1371

Saturn 23381-12-07 18:14 G 10261136.14 10261136.26 10261136.40 0.0290 0.0179

Moon 23382-01-08 13:12 G 10261168.04 10261168.05 10261168.07 0.2672 0.2629

Earth 23382-01-08 13:55 G 10261168.06 10261168.08 10261168.11 0.2677 0.2604 *

Saturn 23382-03-06 13:26 G 10261224.90 10261225.06 10261225.23 0.0290 0.0040

Saturn 23382-06-03 08:09 G 10261313.69 10261313.84 10261313.99 0.0289 0.0097

Saturn 23382-08-31 02:09 G 10261402.50 10261402.59 10261402.69 0.0289 0.0228

Jupiter 23386-10-01 22:04 G 10262895.27 10262895.42 10262895.58 0.0523 0.0159

Mars 23387-09-22 20:38 G 10263251.23 10263251.36 10263251.50 0.1891 0.0408

Mars 23390-06-19 13:12 G 10264251.93 10264252.05 10264252.18 0.1641 0.0592

Jupiter 23392-02-20 11:16 G 10264862.85 10264862.97 10264863.10 0.0507 0.0228

Jupiter 23392-05-19 20:38 G 10264952.26 10264952.36 10264952.46 0.0503 0.0352

Moon 23392-07-12 12:00 G 10265005.87 10265006.00 10265006.12 0.2652 0.1079

Earth 23392-07-12 12:57 G 10265005.91 10265006.04 10265006.17 0.2655 0.0879 *

Moon 23395-01-11 08:38 G 10265918.76 10265918.86 10265918.97 0.2677 0.1164

Earth 23395-01-11 09:36 G 10265918.79 10265918.90 10265919.01 0.2677 0.1029 *

Uranus 23395-07-07 09:07 G 10266095.86 10266095.88 10266095.92 0.0145 0.0143

Uranus 23395-10-03 14:09 G 10266184.01 10266184.09 10266184.17 0.0145 0.0120

Uranus 23395-12-30 18:57 G 10266272.18 10266272.29 10266272.40 0.0145 0.0097

Uranus 23396-03-27 23:45 G 10266360.36 10266360.49 10266360.62 0.0145 0.0074

Uranus 23396-06-24 04:48 G 10266448.56 10266448.70 10266448.84 0.0145 0.0051

Saturn 23396-09-18 09:07 G 10266534.82 10266534.88 10266534.94 0.0269 0.0240

Uranus 23396-09-20 09:36 G 10266536.76 10266536.90 10266537.05 0.0146 0.0027

Saturn 23396-12-15 21:21 G 10266623.27 10266623.39 10266623.52 0.0270 0.0146

Uranus 23396-12-17 14:38 G 10266624.96 10266625.11 10266625.26 0.0146 0.0004

Mars 23397-02-11 23:31 G 10266681.44 10266681.48 10266681.53 0.1884 0.1757

Saturn 23397-03-14 10:04 G 10266711.78 10266711.92 10266712.06 0.0270 0.0050

Uranus 23397-03-15 19:40 G 10266713.17 10266713.32 10266713.47 0.0146 0.0020

Saturn 23397-06-10 23:02 G 10266800.31 10266800.46 10266800.60 0.0270 0.0049

Uranus 23397-06-12 00:43 G 10266801.39 10266801.53 10266801.68 0.0146 0.0044

Saturn 23397-09-07 12:00 G 10266888.88 10266889.00 10266889.13 0.0270 0.0150

Uranus 23397-09-08 05:45 G 10266889.61 10266889.74 10266889.88 0.0146 0.0068

Saturn 23397-12-05 01:40 G 10266977.51 10266977.57 10266977.62 0.0271 0.0252

Uranus 23397-12-05 10:48 G 10266977.84 10266977.95 10266978.08 0.0145 0.0093

Uranus 23398-03-03 16:19 G 10267066.09 10267066.18 10267066.27 0.0145 0.0117

Uranus 23398-05-30 21:21 G 10267154.36 10267154.39 10267154.43 0.0145 0.0142

Jupiter 23398-07-20 21:50 G 10267205.25 10267205.41 10267205.57 0.0523 0.0026

Mars 23399-11-09 21:21 G 10267682.25 10267682.39 10267682.52 0.1646 0.0195

Jupiter 23403-12-10 14:52 G 10269173.03 10269173.12 10269173.21 0.0507 0.0368

Venus 23404-02-09 02:09 G 10269233.49 10269233.59 10269233.69 0.3692 0.2120

Jupiter 23404-03-09 00:00 G 10269262.37 10269262.50 10269262.63 0.0504 0.0209

Moon 23405-07-16 12:28 G 10269756.90 10269757.02 10269757.15 0.2655 0.1110

Earth 23405-07-16 13:40 G 10269756.95 10269757.07 10269757.19 0.2655 0.1279 *

Moon 23408-01-15 04:48 G 10270669.58 10270669.70 10270669.81 0.2681 0.0485

Earth 23408-01-15 05:16 G 10270669.61 10270669.72 10270669.84 0.2677 0.0599 *

Mars 23409-04-02 05:31 G 10271112.62 10271112.73 10271112.83 0.1652 0.0958

Venus 23409-08-24 23:02 G 10271257.34 10271257.46 10271257.58 0.3692 0.0158

Jupiter 23410-05-09 21:50 G 10271515.26 10271515.41 10271515.56 0.0522 0.0207

Venus 23411-03-07 16:48 G 10271817.10 10271817.20 10271817.30 0.3679 0.1937

Saturn 23411-04-27 16:33 G 10271868.09 10271868.19 10271868.29 0.0290 0.0232

Saturn 23411-07-25 11:45 G 10271956.84 10271956.99 10271957.15 0.0290 0.0091

Saturn 23411-10-22 06:28 G 10272045.61 10272045.77 10272045.93 0.0289 0.0047

Saturn 23412-01-19 00:57 G 10272134.41 10272134.54 10272134.66 0.0289 0.0180

Venus 23415-03-10 19:26 G 10273281.21 10273281.31 10273281.42 0.3693 0.1721

Jupiter 23415-12-27 02:24 G 10273572.46 10273572.60 10273572.74 0.0505 0.0052

Venus 23416-09-20 13:12 G 10273840.93 10273841.05 10273841.18 0.3678 0.0152

Mars 23417-11-01 17:45 G 10274248.13 10274248.24 10274248.36 0.1899 0.1074

Mars 23420-07-29 05:45 G 10275248.68 10275248.74 10275248.79 0.1636 0.1494

Venus 23420-09-23 15:36 G 10275305.12 10275305.15 10275305.18 0.3693 0.3501

Earth 23421-01-17 01:26 G 10275420.49 10275420.56 10275420.62 0.2677 0.2251

Moon 23421-01-17 01:26 G 10275420.50 10275420.56 10275420.62 0.2684 0.2304 *

Jupiter 23422-02-25 20:52 G 10275825.27 10275825.37 10275825.48 0.0521 0.0398

Venus 23422-04-06 10:04 G 10275864.82 10275864.92 10275865.03 0.3678 0.1856

Jupiter 23422-05-26 21:50 G 10275915.30 10275915.41 10275915.53 0.0524 0.0363

Saturn 23426-02-06 12:14 G 10277266.98 10277267.01 10277267.05 0.0269 0.0259

Saturn 23426-05-06 00:28 G 10277355.41 10277355.52 10277355.64 0.0270 0.0166

Saturn 23426-08-02 13:12 G 10277443.91 10277444.05 10277444.19 0.0270 0.0070

Saturn 23426-10-30 01:55 G 10277532.44 10277532.58 10277532.73 0.0270 0.0030

Saturn 23427-01-26 15:07 G 10277621.00 10277621.13 10277621.26 0.0270 0.0129

Mars 23427-03-24 21:07 G 10277678.24 10277678.38 10277678.52 0.1892 0.0249

Saturn 23427-04-25 04:33 G 10277709.61 10277709.69 10277709.76 0.0271 0.0232

Jupiter 23427-10-15 05:45 G 10277882.60 10277882.74 10277882.87 0.0506 0.0096

Moon 23428-01-10 18:28 G 10277970.22 10277970.27 10277970.31 0.2672 0.2423

Earth 23428-01-10 18:57 G 10277970.23 10277970.29 10277970.35 0.2677 0.2276 *

Jupiter 23428-01-12 15:21 G 10277972.11 10277972.14 10277972.17 0.0503 0.0488

Mars 23429-12-19 13:26 G 10278678.94 10278679.06 10278679.19 0.1641 0.0709

Jupiter 23434-03-14 20:24 G 10280225.20 10280225.35 10280225.50 0.0523 0.0162

Mars 23436-08-14 00:00 G 10281108.43 10281108.50 10281108.57 0.1884 0.1603

Uranus 23437-07-29 08:52 G 10281457.81 10281457.87 10281457.96 0.0133 0.0118

Uranus 23437-10-25 13:55 G 10281545.98 10281546.08 10281546.21 0.0133 0.0098

Uranus 23438-01-21 18:57 G 10281634.17 10281634.29 10281634.44 0.0133 0.0078

Uranus 23438-04-20 00:00 G 10281722.36 10281722.50 10281722.66 0.0133 0.0058

Moon 23438-07-14 17:31 G 10281808.09 10281808.23 10281808.37 0.2653 0.0514

Earth 23438-07-14 18:43 G 10281808.14 10281808.28 10281808.42 0.2655 0.0437 *

Uranus 23438-07-17 05:02 G 10281810.56 10281810.71 10281810.87 0.0133 0.0038

Uranus 23438-10-13 10:04 G 10281898.76 10281898.92 10281899.08 0.0133 0.0018

Uranus 23439-01-09 14:52 G 10281986.96 10281987.12 10281987.29 0.0133 0.0002

Uranus 23439-04-07 19:40 G 10282075.16 10282075.32 10282075.48 0.0133 0.0021

Mars 23439-05-11 21:21 G 10282109.26 10282109.39 10282109.53 0.1646 0.0088

Uranus 23439-07-05 00:28 G 10282163.37 10282163.52 10282163.67 0.0133 0.0040

Jupiter 23439-08-03 09:21 G 10282192.76 10282192.89 10282193.01 0.0507 0.0234

Uranus 23439-10-01 05:16 G 10282251.57 10282251.72 10282251.86 0.0133 0.0059

Jupiter 23439-10-31 18:43 G 10282282.18 10282282.28 10282282.38 0.0504 0.0347

Uranus 23439-12-28 09:50 G 10282339.78 10282339.91 10282340.04 0.0133 0.0078

Uranus 23440-03-25 14:24 G 10282428.00 10282428.10 10282428.22 0.0133 0.0097

Uranus 23440-06-21 18:57 G 10282516.22 10282516.29 10282516.38 0.0133 0.0116

Saturn 23440-09-13 18:14 G 10282600.20 10282600.26 10282600.34 0.0290 0.0261

Saturn 23440-12-11 13:40 G 10282688.93 10282689.07 10282689.23 0.0290 0.0119

Moon 23441-01-12 13:40 G 10282720.96 10282721.07 10282721.19 0.2678 0.0773

Earth 23441-01-12 14:38 G 10282721.00 10282721.11 10282721.22 0.2677 0.0699 *

Saturn 23441-03-10 08:38 G 10282777.70 10282777.86 10282778.02 0.0290 0.0020

Saturn 23441-06-07 02:52 G 10282866.49 10282866.62 10282866.76 0.0289 0.0155

Saturn 23441-09-03 20:52 G 10282955.35 10282955.37 10282955.40 0.0289 0.0284

Neptune 23445-01-13 10:19 G 10284182.91 10284182.93 10284182.99 0.0089 0.0087

Neptune 23445-04-11 12:57 G 10284270.98 10284271.04 10284271.15 0.0089 0.0079

Neptune 23445-07-08 15:50 G 10284359.07 10284359.16 10284359.28 0.0089 0.0069

Neptune 23445-10-04 18:57 G 10284447.16 10284447.29 10284447.41 0.0089 0.0060

Jupiter 23445-12-31 19:40 G 10284535.16 10284535.32 10284535.48 0.0522 0.0030

Neptune 23445-12-31 21:36 G 10284535.26 10284535.40 10284535.54 0.0089 0.0051 *

Neptune 23446-03-30 00:00 G 10284623.36 10284623.50 10284623.66 0.0089 0.0042

Neptune 23446-06-26 02:38 G 10284711.46 10284711.61 10284711.78 0.0089 0.0033

Neptune 23446-09-22 05:16 G 10284799.57 10284799.72 10284799.90 0.0089 0.0025

Neptune 23446-12-19 08:09 G 10284887.67 10284887.84 10284888.01 0.0089 0.0015

Neptune 23447-03-17 10:48 G 10284975.78 10284975.95 10284976.12 0.0089 0.0006

Neptune 23447-06-13 13:26 G 10285063.89 10285064.06 10285064.23 0.0089 0.0003

Neptune 23447-09-09 16:04 G 10285152.00 10285152.17 10285152.33 0.0089 0.0012

Neptune 23447-12-06 18:28 G 10285240.11 10285240.27 10285240.44 0.0089 0.0020

Neptune 23448-03-03 20:52 G 10285328.22 10285328.37 10285328.54 0.0089 0.0030

Neptune 23448-05-30 23:45 G 10285416.34 10285416.49 10285416.64 0.0089 0.0038

Neptune 23448-08-27 01:55 G 10285504.45 10285504.58 10285504.74 0.0089 0.0047

Mars 23448-10-01 05:31 G 10285539.62 10285539.73 10285539.85 0.1652 0.0848

Neptune 23448-11-23 04:19 G 10285592.57 10285592.68 10285592.83 0.0089 0.0056

Neptune 23449-02-19 07:12 G 10285680.69 10285680.80 10285680.92 0.0089 0.0063

Neptune 23449-05-18 09:21 G 10285768.81 10285768.89 10285769.00 0.0089 0.0072

Neptune 23449-08-14 12:00 G 10285856.94 10285857.00 10285857.08 0.0089 0.0081

Neptune 23449-11-10 14:24 G 10285945.10 10285945.10 10285945.13 0.0089 0.0089

Jupiter 23451-05-22 12:57 G 10286502.95 10286503.04 10286503.13 0.0508 0.0371

Moon 23451-07-17 18:28 G 10286559.15 10286559.27 10286559.38 0.2656 0.1546

Earth 23451-07-17 19:26 G 10286559.21 10286559.31 10286559.42 0.2655 0.1710 *

Jupiter 23451-08-19 22:04 G 10286592.29 10286592.42 10286592.55 0.0504 0.0206

Pluto 23452-04-29 19:55 G 10286846.30 10286846.33 10286846.38 0.0070 0.0066

Pluto 23452-07-26 20:24 G 10286934.29 10286934.35 10286934.43 0.0070 0.0057

Pluto 23452-10-22 21:07 G 10287022.29 10287022.38 10287022.48 0.0070 0.0047

Pluto 23453-01-18 21:36 G 10287110.30 10287110.40 10287110.52 0.0070 0.0038

Pluto 23453-04-16 22:19 G 10287198.31 10287198.43 10287198.55 0.0070 0.0029

Pluto 23453-07-13 22:48 G 10287286.33 10287286.45 10287286.58 0.0070 0.0020

Pluto 23453-10-09 23:31 G 10287374.35 10287374.48 10287374.61 0.0070 0.0010

Pluto 23454-01-06 00:14 G 10287462.38 10287462.51 10287462.64 0.0071 0.0001

Moon 23454-01-15 09:50 G 10287471.80 10287471.91 10287472.02 0.2681 0.0848

Earth 23454-01-15 10:33 G 10287471.82 10287471.94 10287472.05 0.2677 0.0930 *

Pluto 23454-04-04 00:43 G 10287550.40 10287550.53 10287550.66 0.0071 0.0010

Pluto 23454-07-01 01:12 G 10287638.43 10287638.55 10287638.69 0.0071 0.0020

Pluto 23454-09-27 01:55 G 10287726.47 10287726.58 10287726.70 0.0071 0.0030

Pluto 23454-12-24 02:38 G 10287814.50 10287814.61 10287814.72 0.0071 0.0039

Venus 23455-03-02 04:04 G 10287882.63 10287882.67 10287882.71 0.3691 0.3492

Pluto 23455-03-22 03:07 G 10287902.54 10287902.63 10287902.73 0.0071 0.0050

Pluto 23455-06-18 03:50 G 10287990.59 10287990.66 10287990.73 0.0071 0.0060

Pluto 23455-09-14 04:19 G 10288078.66 10288078.68 10288078.72 0.0071 0.0070

Saturn 23455-09-23 02:24 G 10288087.51 10288087.60 10288087.70 0.0269 0.0195

Saturn 23455-12-20 14:52 G 10288175.99 10288176.12 10288176.26 0.0270 0.0100

Saturn 23456-03-18 03:36 G 10288264.51 10288264.65 10288264.80 0.0270 0.0005

Saturn 23456-06-14 16:33 G 10288353.06 10288353.19 10288353.33 0.0270 0.0098

Saturn 23456-09-11 05:45 G 10288441.65 10288441.74 10288441.85 0.0270 0.0200

Mars 23457-05-02 18:14 G 10288675.16 10288675.26 10288675.36 0.1899 0.1226

Jupiter 23457-10-19 19:12 G 10288845.15 10288845.30 10288845.44 0.0522 0.0218

Mars 23458-02-21 13:40 G 10288970.05 10288970.07 10288970.10 0.1657 0.1621

Mars 23460-01-28 05:45 G 10289675.72 10289675.74 10289675.76 0.1636 0.1606

Venus 23460-09-15 01:12 G 10289906.44 10289906.55 10289906.66 0.3692 0.1471

Venus 23462-03-28 19:26 G 10290466.25 10290466.31 10290466.37 0.3679 0.3132

Jupiter 23463-06-08 01:26 G 10290902.42 10290902.56 10290902.70 0.0505 0.0064

Venus 23466-03-31 21:50 G 10291930.29 10291930.41 10291930.53 0.3693 0.0465

Mars 23466-09-22 21:21 G 10292105.25 10292105.39 10292105.53 0.1892 0.0112

Earth 23467-01-18 06:28 G 10292222.74 10292222.77 10292222.80 0.2677 0.2595

Moon 23467-01-18 06:43 G 10292222.75 10292222.78 10292222.80 0.2684 0.2600 *

Venus 23467-10-12 15:36 G 10292490.04 10292490.15 10292490.26 0.3679 0.1342

Mars 23469-06-19 13:40 G 10293105.95 10293106.07 10293106.19 0.1641 0.0825

Jupiter 23469-08-07 18:43 G 10293155.18 10293155.28 10293155.39 0.0521 0.0400

Jupiter 23469-11-05 19:55 G 10293245.21 10293245.33 10293245.44 0.0524 0.0363

Saturn 23470-04-30 12:14 G 10293420.88 10293421.01 10293421.15 0.0290 0.0169

Saturn 23470-07-28 07:26 G 10293509.65 10293509.81 10293509.97 0.0289 0.0029

Saturn 23470-10-25 01:55 G 10293598.43 10293598.58 10293598.73 0.0289 0.0107

Saturn 23471-01-21 19:55 G 10293687.25 10293687.33 10293687.43 0.0289 0.0238

Moon 23471-07-12 22:48 G 10293859.37 10293859.45 10293859.52 0.2650 0.2213

Earth 23471-07-12 23:31 G 10293859.40 10293859.48 10293859.55 0.2655 0.2210 *

Venus 23471-10-15 18:14 G 10293954.17 10293954.26 10293954.35 0.3693 0.2317

Venus 23473-04-27 12:00 G 10294513.88 10294514.00 10294514.13 0.3678 0.0557

Moon 23474-01-10 23:16 G 10294772.39 10294772.47 10294772.55 0.2673 0.1979

Earth 23474-01-11 00:00 G 10294772.42 10294772.50 10294772.58 0.2677 0.1955 *

Jupiter 23475-03-27 04:04 G 10295212.53 10295212.67 10295212.81 0.0506 0.0093

Jupiter 23475-06-24 13:40 G 10295302.04 10295302.07 10295302.10 0.0502 0.0489

Mars 23476-02-13 00:14 G 10295535.43 10295535.51 10295535.60 0.1885 0.1450

Mars 23478-11-09 21:50 G 10296536.27 10296536.41 10296536.54 0.1646 0.0064

Venus 23478-11-11 08:52 G 10296537.78 10296537.87 10296537.96 0.3677 0.2498

Uranus 23479-07-28 16:33 G 10296797.14 10296797.19 10296797.24 0.0146 0.0137

Uranus 23479-10-24 21:07 G 10296885.30 10296885.38 10296885.48 0.0146 0.0115

Uranus 23480-01-21 01:55 G 10296973.48 10296973.58 10296973.70 0.0146 0.0092

Uranus 23480-04-18 06:57 G 10297061.66 10297061.79 10297061.92 0.0146 0.0068

Uranus 23480-07-15 11:45 G 10297149.85 10297149.99 10297150.14 0.0146 0.0046

Uranus 23480-10-11 16:48 G 10297238.05 10297238.20 10297238.35 0.0146 0.0022

Uranus 23481-01-07 21:50 G 10297326.26 10297326.41 10297326.56 0.0146 0.0002

Uranus 23481-04-06 02:52 G 10297414.47 10297414.62 10297414.77 0.0146 0.0026

Uranus 23481-07-03 07:55 G 10297502.69 10297502.83 10297502.97 0.0146 0.0050

Jupiter 23481-08-24 19:26 G 10297555.16 10297555.31 10297555.46 0.0523 0.0176

Uranus 23481-09-29 13:12 G 10297590.91 10297591.05 10297591.18 0.0146 0.0074

Uranus 23481-12-26 18:00 G 10297679.15 10297679.25 10297679.37 0.0146 0.0099

Uranus 23482-03-24 23:16 G 10297767.40 10297767.47 10297767.56 0.0146 0.0123

Moon 23484-07-14 23:16 G 10298610.34 10298610.47 10298610.61 0.2653 0.0248

Earth 23484-07-15 00:43 G 10298610.39 10298610.53 10298610.67 0.2655 0.0080 *

Saturn 23485-02-09 05:16 G 10298819.64 10298819.72 10298819.81 0.0270 0.0216

Saturn 23485-05-08 17:45 G 10298908.12 10298908.24 10298908.37 0.0270 0.0121

Saturn 23485-08-05 06:28 G 10298996.63 10298996.77 10298996.92 0.0270 0.0025

Saturn 23485-11-01 19:26 G 10299085.17 10299085.31 10299085.46 0.0270 0.0077

Saturn 23486-01-29 08:38 G 10299173.76 10299173.86 10299173.98 0.0270 0.0179

Jupiter 23487-01-13 07:12 G 10299522.68 10299522.80 10299522.93 0.0507 0.0240

Moon 23487-01-13 18:57 G 10299523.17 10299523.29 10299523.40 0.2679 0.0545

Earth 23487-01-13 19:40 G 10299523.20 10299523.32 10299523.44 0.2677 0.0366 *

Jupiter 23487-04-12 16:33 G 10299612.09 10299612.19 10299612.30 0.0503 0.0341

Mars 23488-04-01 05:45 G 10299966.62 10299966.74 10299966.86 0.1651 0.0734

Jupiter 23493-06-12 17:45 G 10301865.08 10301865.24 10301865.40 0.0522 0.0028

Mars 23496-10-31 18:28 G 10303102.18 10303102.27 10303102.37 0.1899 0.1377

Moon 23497-07-18 00:14 G 10303361.43 10303361.51 10303361.60 0.2658 0.2071

Earth 23497-07-18 01:12 G 10303361.48 10303361.55 10303361.63 0.2655 0.2144 *

Mars 23497-08-22 13:55 G 10303397.03 10303397.08 10303397.13 0.1657 0.1506

Jupiter 23498-11-01 10:48 G 10303832.87 10303832.95 10303833.05 0.0508 0.0379

Jupiter 23499-01-29 19:55 G 10303922.21 10303922.33 10303922.46 0.0504 0.0200

Saturn 23499-09-17 14:38 G 10304152.99 10304153.11 10304153.23 0.0290 0.0194

Saturn 23499-12-15 09:50 G 10304241.75 10304241.91 10304242.07 0.0290 0.0054

Moon 23500-01-16 15:07 G 10304274.03 10304274.13 10304274.24 0.2682 0.1236

Earth 23500-01-16 15:36 G 10304274.04 10304274.15 10304274.25 0.2677 0.1266 *

Saturn 23500-03-14 04:33 G 10304330.53 10304330.69 10304330.84 0.0290 0.0083

Saturn 23500-06-10 22:33 G 10304419.34 10304419.44 10304419.55 0.0289 0.0215

Jupiter 23505-04-01 16:48 G 10306175.05 10306175.20 10306175.35 0.0521 0.0222

Mars 23506-03-24 21:50 G 10306532.27 10306532.41 10306532.54 0.1892 0.0076

Mars 23508-12-19 13:55 G 10307532.97 10307533.08 10307533.19 0.1641 0.0940

Jupiter 23510-11-18 23:31 G 10308232.34 10308232.48 10308232.62 0.0505 0.0059

Venus 23511-10-08 03:07 G 10308555.55 10308555.63 10308555.71 0.3692 0.2830

Saturn 23514-06-30 07:40 G 10309551.76 10309551.82 10309551.88 0.0269 0.0241

Saturn 23514-09-26 19:55 G 10309640.22 10309640.33 10309640.46 0.0270 0.0148

Saturn 23514-12-24 08:38 G 10309728.72 10309728.86 10309729.01 0.0270 0.0051

Saturn 23515-03-22 21:36 G 10309817.25 10309817.40 10309817.54 0.0270 0.0048

Saturn 23515-06-19 10:33 G 10309905.82 10309905.94 10309906.07 0.0270 0.0149

Mars 23515-08-15 00:43 G 10309962.43 10309962.53 10309962.63 0.1884 0.1296

Saturn 23515-09-16 00:00 G 10309994.45 10309994.50 10309994.56 0.0271 0.0252

Jupiter 23517-01-18 15:50 G 10310485.07 10310485.16 10310485.26 0.0521 0.0414

Jupiter 23517-04-18 17:02 G 10310575.09 10310575.21 10310575.33 0.0524 0.0349

Venus 23517-04-23 00:00 G 10310579.38 10310579.50 10310579.62 0.3692 0.0836

Moon 23517-07-14 04:19 G 10310661.59 10310661.68 10310661.78 0.2651 0.1932

Earth 23517-07-14 05:16 G 10310661.62 10310661.72 10310661.83 0.2655 0.1749 *

Mars 23518-05-11 21:50 G 10310963.28 10310963.41 10310963.55 0.1646 0.0158

Venus 23518-11-03 18:00 G 10311139.17 10311139.25 10311139.34 0.3679 0.2564

Moon 23520-01-13 04:19 G 10311574.59 10311574.68 10311574.77 0.2675 0.1797

Earth 23520-01-13 05:02 G 10311574.62 10311574.71 10311574.81 0.2676 0.1629 *

Uranus 23521-05-23 11:31 G 10312070.97 10312070.98 10312071.02 0.0133 0.0131

Uranus 23521-08-19 16:48 G 10312159.12 10312159.20 10312159.30 0.0133 0.0110

Uranus 23521-11-15 21:50 G 10312247.30 10312247.41 10312247.54 0.0133 0.0090

Uranus 23522-02-12 02:52 G 10312335.49 10312335.62 10312335.77 0.0133 0.0070

Uranus 23522-05-11 07:55 G 10312423.68 10312423.83 10312423.99 0.0133 0.0050

Uranus 23522-08-07 12:57 G 10312511.88 10312512.04 10312512.20 0.0133 0.0030

Jupiter 23522-09-07 02:52 G 10312542.49 10312542.62 10312542.76 0.0506 0.0084

Uranus 23522-11-03 17:45 G 10312600.08 10312600.24 10312600.41 0.0133 0.0011

Venus 23522-11-06 20:38 G 10312603.25 10312603.36 10312603.48 0.3693 0.1084

Jupiter 23522-12-05 12:28 G 10312632.01 10312632.02 10312632.03 0.0503 0.0499

Uranus 23523-01-30 22:33 G 10312688.28 10312688.44 10312688.61 0.0133 0.0009

Uranus 23523-04-29 03:21 G 10312776.49 10312776.64 10312776.80 0.0133 0.0028

Uranus 23523-07-26 08:09 G 10312864.69 10312864.84 10312864.99 0.0133 0.0047

Uranus 23523-10-22 12:43 G 10312952.90 10312953.03 10312953.18 0.0133 0.0067

Uranus 23524-01-18 17:16 G 10313041.11 10313041.22 10313041.36 0.0133 0.0086

Uranus 23524-04-15 22:04 G 10313129.33 10313129.42 10313129.53 0.0133 0.0104

Venus 23524-05-19 14:24 G 10313162.98 10313163.10 10313163.22 0.3678 0.0737

Uranus 23524-07-13 02:38 G 10313217.56 10313217.61 10313217.68 0.0133 0.0123

Neptune 23526-01-20 06:43 G 10313773.76 10313773.78 10313773.81 0.0088 0.0087

Neptune 23526-04-18 08:24 G 10313861.79 10313861.85 10313861.91 0.0088 0.0079

Neptune 23526-07-15 10:04 G 10313949.84 10313949.92 10313950.01 0.0088 0.0072

Neptune 23526-10-11 11:45 G 10314037.90 10314037.99 10314038.09 0.0088 0.0065

Neptune 23527-01-07 13:12 G 10314125.96 10314126.05 10314126.17 0.0088 0.0059

Neptune 23527-04-05 14:52 G 10314214.02 10314214.12 10314214.25 0.0088 0.0052

Neptune 23527-07-02 17:02 G 10314302.08 10314302.21 10314302.33 0.0088 0.0044

Neptune 23527-09-28 18:28 G 10314390.15 10314390.27 10314390.41 0.0088 0.0037

Mars 23527-10-02 06:00 G 10314393.63 10314393.75 10314393.87 0.1652 0.0617

Neptune 23527-12-25 20:09 G 10314478.21 10314478.34 10314478.49 0.0088 0.0030

Neptune 23528-03-22 21:50 G 10314566.28 10314566.41 10314566.56 0.0088 0.0023

Venus 23528-05-22 16:48 G 10314627.13 10314627.20 10314627.27 0.3693 0.2902

Neptune 23528-06-18 23:45 G 10314654.35 10314654.49 10314654.64 0.0088 0.0014

Neptune 23528-09-15 01:40 G 10314742.42 10314742.57 10314742.71 0.0088 0.0007

Neptune 23528-12-12 03:21 G 10314830.49 10314830.64 10314830.79 0.0088 0.0001

Saturn 23529-02-04 13:12 G 10314884.96 10314885.05 10314885.14 0.0290 0.0244

Jupiter 23529-02-04 17:02 G 10314885.06 10314885.21 10314885.37 0.0523 0.0172 *

Neptune 23529-03-10 05:02 G 10314918.56 10314918.71 10314918.86 0.0088 0.0008

Saturn 23529-05-04 08:38 G 10314973.70 10314973.86 10314974.01 0.0289 0.0102

Neptune 23529-06-06 06:43 G 10315006.64 10315006.78 10315006.93 0.0088 0.0015

Saturn 23529-08-01 03:21 G 10315062.48 10315062.64 10315062.80 0.0289 0.0036

Neptune 23529-09-02 08:24 G 10315094.71 10315094.85 10315095.00 0.0088 0.0023

Saturn 23529-10-28 21:50 G 10315151.28 10315151.41 10315151.54 0.0289 0.0169

Neptune 23529-11-29 10:19 G 10315182.79 10315182.93 10315183.07 0.0088 0.0030

Venus 23529-12-03 11:02 G 10315186.84 10315186.96 10315187.07 0.3678 0.1173

Neptune 23530-02-25 12:00 G 10315270.87 10315271.00 10315271.14 0.0088 0.0038

Neptune 23530-05-24 13:40 G 10315358.95 10315359.07 10315359.21 0.0088 0.0045

Moon 23530-07-17 05:02 G 10315412.58 10315412.71 10315412.85 0.2653 0.0384

Earth 23530-07-17 06:28 G 10315412.63 10315412.77 10315412.90 0.2655 0.0454 *

Neptune 23530-08-20 15:21 G 10315447.04 10315447.14 10315447.27 0.0088 0.0053

Neptune 23530-11-16 17:16 G 10315535.12 10315535.22 10315535.34 0.0088 0.0060

Neptune 23531-02-12 18:57 G 10315623.21 10315623.29 10315623.40 0.0088 0.0068

Neptune 23531-05-11 21:07 G 10315711.31 10315711.38 10315711.46 0.0088 0.0075

Neptune 23531-08-07 22:48 G 10315799.41 10315799.45 10315799.51 0.0088 0.0083

Moon 23533-01-15 00:00 G 10316325.38 10316325.50 10316325.62 0.2679 0.0090

Earth 23533-01-15 00:43 G 10316325.41 10316325.53 10316325.65 0.2676 0.0076 *

Jupiter 23534-06-26 05:45 G 10316852.61 10316852.74 10316852.86 0.0507 0.0238

Jupiter 23534-09-23 14:52 G 10316942.02 10316942.12 10316942.23 0.0503 0.0341

Venus 23535-06-19 07:55 G 10317210.77 10317210.83 10317210.89 0.3677 0.3161

Mars 23536-05-02 18:43 G 10317529.20 10317529.28 10317529.36 0.1899 0.1520

Mars 23537-02-21 14:09 G 10317824.02 10317824.09 10317824.16 0.1657 0.1391

Pluto 23538-06-10 23:45 G 10318298.40 10318298.49 10318298.62 0.0074 0.0061

Pluto 23538-09-07 02:38 G 10318386.46 10318386.61 10318386.77 0.0074 0.0044

Pluto 23538-12-04 05:02 G 10318474.54 10318474.71 10318474.90 0.0073 0.0027

Pluto 23539-03-02 07:40 G 10318562.63 10318562.82 10318563.02 0.0073 0.0011

Pluto 23539-05-29 10:19 G 10318650.73 10318650.93 10318651.13 0.0073 0.0005

Pluto 23539-08-25 12:28 G 10318738.84 10318739.02 10318739.22 0.0073 0.0022

Pluto 23539-11-21 14:52 G 10318826.97 10318827.12 10318827.31 0.0073 0.0038

Pluto 23540-02-17 17:16 G 10318915.11 10318915.22 10318915.37 0.0073 0.0054

Pluto 23540-05-15 20:09 G 10319003.28 10319003.34 10319003.40 0.0073 0.0069

Jupiter 23540-11-23 16:33 G 10319195.03 10319195.19 10319195.35 0.0522 0.0017

Moon 23543-07-20 06:00 G 10320163.70 10320163.75 10320163.81 0.2659 0.2377

Earth 23543-07-20 06:57 G 10320163.76 10320163.79 10320163.83 0.2655 0.2569 *

Saturn 23543-11-17 10:33 G 10320283.91 10320283.94 10320283.96 0.0270 0.0264

Saturn 23544-02-13 22:48 G 10320372.34 10320372.45 10320372.56 0.0270 0.0170

Saturn 23544-05-12 11:16 G 10320460.84 10320460.97 10320461.12 0.0270 0.0074

Saturn 23544-08-09 00:14 G 10320549.36 10320549.51 10320549.66 0.0270 0.0025

Saturn 23544-11-05 13:12 G 10320637.92 10320638.05 10320638.19 0.0271 0.0126

Saturn 23545-02-02 02:38 G 10320726.54 10320726.61 10320726.69 0.0271 0.0229

Mars 23545-09-22 22:19 G 10320959.29 10320959.43 10320959.56 0.1892 0.0218

Moon 23546-01-17 20:24 G 10321076.25 10321076.35 10321076.45 0.2683 0.1530

Earth 23546-01-17 20:38 G 10321076.27 10321076.36 10321076.46 0.2677 0.1607 *

Jupiter 23546-04-14 08:52 G 10321162.78 10321162.87 10321162.96 0.0508 0.0384

Jupiter 23546-07-12 18:00 G 10321252.12 10321252.25 10321252.38 0.0504 0.0193

Mars 23548-06-19 14:09 G 10321959.99 10321960.09 10321960.19 0.1641 0.1061

Jupiter 23552-09-11 14:38 G 10323504.97 10323505.11 10323505.26 0.0521 0.0223

Mars 23555-02-13 00:57 G 10324389.43 10324389.54 10324389.65 0.1885 0.1150

Mars 23557-11-09 22:04 G 10325390.28 10325390.42 10325390.55 0.1646 0.0273

Jupiter 23558-04-30 21:21 G 10325562.25 10325562.39 10325562.53 0.0505 0.0051

Saturn 23558-06-24 15:50 G 10325617.10 10325617.16 10325617.22 0.0290 0.0267

Saturn 23558-09-21 11:16 G 10325705.82 10325705.97 10325706.12 0.0290 0.0125

Saturn 23558-12-19 06:14 G 10325794.60 10325794.76 10325794.92 0.0290 0.0014

Saturn 23559-03-18 00:43 G 10325883.39 10325883.53 10325883.67 0.0289 0.0149

Saturn 23559-06-14 18:28 G 10325972.24 10325972.27 10325972.31 0.0289 0.0279

Moon 23563-07-15 10:04 G 10327463.80 10327463.92 10327464.04 0.2651 0.1377

Earth 23563-07-15 11:16 G 10327463.85 10327463.97 10327464.09 0.2655 0.1299 *

Uranus 23563-08-19 00:28 G 10327498.45 10327498.52 10327498.58 0.0146 0.0129

Uranus 23563-11-15 05:02 G 10327586.62 10327586.71 10327586.81 0.0146 0.0106

Uranus 23564-02-11 09:50 G 10327674.80 10327674.91 10327675.04 0.0146 0.0084

Uranus 23564-05-09 14:38 G 10327762.98 10327763.11 10327763.25 0.0146 0.0061

Jupiter 23564-06-30 13:26 G 10327814.97 10327815.06 10327815.16 0.0520 0.0419

Uranus 23564-08-05 19:40 G 10327851.18 10327851.32 10327851.47 0.0146 0.0037

Jupiter 23564-09-28 14:38 G 10327904.99 10327905.11 10327905.23 0.0524 0.0343

Uranus 23564-11-02 00:43 G 10327939.38 10327939.53 10327939.68 0.0146 0.0014

Uranus 23565-01-29 05:45 G 10328027.59 10328027.74 10328027.89 0.0146 0.0011

Uranus 23565-04-27 10:33 G 10328115.80 10328115.94 10328116.09 0.0146 0.0034

Uranus 23565-07-24 15:50 G 10328204.02 10328204.16 10328204.30 0.0146 0.0058

Uranus 23565-10-20 20:38 G 10328292.25 10328292.36 10328292.50 0.0146 0.0083

Moon 23566-01-13 09:21 G 10328376.79 10328376.89 10328376.99 0.2676 0.1366

Earth 23566-01-13 10:04 G 10328376.82 10328376.92 10328377.03 0.2676 0.1306 *

Uranus 23566-01-17 01:55 G 10328380.48 10328380.58 10328380.69 0.0146 0.0107

Uranus 23566-04-15 06:57 G 10328468.74 10328468.79 10328468.87 0.0146 0.0132

Mars 23567-04-02 06:14 G 10328820.63 10328820.76 10328820.88 0.1651 0.0509

Venus 23568-05-14 01:55 G 10329228.48 10329228.58 10329228.68 0.3692 0.2184

Jupiter 23570-02-17 00:57 G 10329872.40 10329872.54 10329872.67 0.0506 0.0090

Jupiter 23570-05-17 10:19 G 10329961.91 10329961.93 10329961.96 0.0503 0.0494

Saturn 23573-07-03 01:12 G 10331104.46 10331104.55 10331104.66 0.0270 0.0195

Saturn 23573-09-29 13:55 G 10331192.94 10331193.08 10331193.21 0.0270 0.0099

Venus 23573-11-27 22:48 G 10331252.33 10331252.45 10331252.57 0.3692 0.0210

Saturn 23573-12-27 02:38 G 10331281.46 10331281.61 10331281.75 0.0270 0.0008

Saturn 23574-03-25 15:36 G 10331370.01 10331370.15 10331370.28 0.0270 0.0099

Saturn 23574-06-22 04:48 G 10331458.60 10331458.70 10331458.80 0.0271 0.0201

Venus 23575-06-10 16:48 G 10331812.10 10331812.20 10331812.30 0.3679 0.1974

Mars 23575-11-01 19:12 G 10331956.24 10331956.30 10331956.36 0.1899 0.1683

Moon 23576-07-17 11:02 G 10332214.83 10332214.96 10332215.09 0.2655 0.0659

Earth 23576-07-17 12:14 G 10332214.88 10332215.01 10332215.14 0.2655 0.0893 *

Jupiter 23576-07-17 14:09 G 10332214.93 10332215.09 10332215.24 0.0523 0.0156 *

Mars 23576-08-22 14:24 G 10332251.01 10332251.10 10332251.18 0.1657 0.1282

Moon 23579-01-16 05:02 G 10333127.60 10333127.71 10333127.83 0.2680 0.0169

Earth 23579-01-16 05:45 G 10333127.63 10333127.74 10333127.86 0.2676 0.0319 *

Venus 23579-06-13 19:12 G 10333276.20 10333276.30 10333276.41 0.3693 0.1691

Venus 23580-12-24 13:12 G 10333835.92 10333836.05 10333836.17 0.3678 0.0177

Jupiter 23581-12-06 04:19 G 10334182.56 10334182.68 10334182.81 0.0507 0.0231

Jupiter 23582-03-05 13:40 G 10334271.97 10334272.07 10334272.17 0.0503 0.0350

Venus 23584-12-27 15:21 G 10335300.11 10335300.14 10335300.18 0.3694 0.3492

Mars 23585-03-23 22:19 G 10335386.29 10335386.43 10335386.56 0.1892 0.0340

Venus 23586-07-10 09:50 G 10335859.80 10335859.91 10335860.02 0.3678 0.1811

Mars 23587-12-19 14:24 G 10336387.00 10336387.10 10336387.19 0.1641 0.1176

Saturn 23588-02-08 10:04 G 10336437.79 10336437.92 10336438.05 0.0289 0.0173

Jupiter 23588-05-05 14:09 G 10336524.92 10336525.09 10336525.25 0.0522 0.0027

Saturn 23588-05-07 05:16 G 10336526.56 10336526.72 10336526.88 0.0289 0.0033

Saturn 23588-08-03 23:45 G 10336615.34 10336615.49 10336615.65 0.0289 0.0103

Saturn 23588-10-31 18:00 G 10336704.16 10336704.25 10336704.34 0.0289 0.0235

Moon 23592-01-19 01:40 G 10337878.49 10337878.57 10337878.64 0.2684 0.1995

Earth 23592-01-19 01:40 G 10337878.49 10337878.57 10337878.65 0.2676 0.1947 *

Jupiter 23593-09-24 07:12 G 10338492.72 10338492.80 10338492.89 0.0507 0.0382

Jupiter 23593-12-22 16:19 G 10338582.05 10338582.18 10338582.31 0.0504 0.0194

Mars 23594-08-14 01:26 G 10338816.44 10338816.56 10338816.68 0.1885 0.0985

Mars 23597-05-10 22:19 G 10339817.30 10339817.43 10339817.56 0.1646 0.0396

Moon 23599-01-11 19:12 G 10340428.27 10340428.30 10340428.33 0.2671 0.2589

Earth 23599-01-11 19:40 G 10340428.29 10340428.32 10340428.36 0.2676 0.2534 *

Jupiter 23600-02-22 13:26 G 10340834.91 10340835.06 10340835.21 0.0521 0.0213

Saturn 23602-11-20 03:50 G 10341836.58 10341836.66 10341836.74 0.0270 0.0219

Saturn 23603-02-16 16:19 G 10341925.05 10341925.18 10341925.30 0.0270 0.0124

Saturn 23603-05-16 04:48 G 10342013.56 10342013.70 10342013.85 0.0270 0.0028

Saturn 23603-08-12 17:45 G 10342102.10 10342102.24 10342102.39 0.0271 0.0073

Saturn 23603-11-09 06:57 G 10342190.68 10342190.79 10342190.91 0.0271 0.0175

Uranus 23605-06-12 19:26 G 10342772.26 10342772.31 10342772.38 0.0133 0.0123

Uranus 23605-09-09 00:28 G 10342860.43 10342860.52 10342860.64 0.0133 0.0103

Jupiter 23605-10-10 19:26 G 10342892.17 10342892.31 10342892.45 0.0505 0.0047

Uranus 23605-12-06 05:31 G 10342948.61 10342948.73 10342948.87 0.0133 0.0083

Uranus 23606-03-04 10:33 G 10343036.80 10343036.94 10343037.09 0.0133 0.0063

Uranus 23606-05-31 15:36 G 10343125.00 10343125.15 10343125.31 0.0133 0.0043

Uranus 23606-08-27 20:38 G 10343213.20 10343213.36 10343213.52 0.0133 0.0023

Mars 23606-10-01 06:28 G 10343247.63 10343247.77 10343247.90 0.1651 0.0394

Uranus 23606-11-24 01:26 G 10343301.40 10343301.56 10343301.73 0.0133 0.0005

Uranus 23607-02-20 06:14 G 10343389.60 10343389.76 10343389.93 0.0133 0.0017

Uranus 23607-05-19 11:02 G 10343477.81 10343477.96 10343478.12 0.0133 0.0036

Uranus 23607-08-15 15:50 G 10343566.02 10343566.16 10343566.31 0.0133 0.0055

Uranus 23607-11-11 20:38 G 10343654.23 10343654.36 10343654.50 0.0133 0.0074

Uranus 23608-02-08 01:12 G 10343742.44 10343742.55 10343742.67 0.0133 0.0093

Uranus 23608-05-06 06:00 G 10343830.67 10343830.75 10343830.84 0.0133 0.0111

Uranus 23608-08-02 10:33 G 10343918.91 10343918.94 10343918.97 0.0133 0.0130

Moon 23609-07-15 15:50 G 10344266.03 10344266.16 10344266.29 0.2651 0.1030

Earth 23609-07-15 17:02 G 10344266.08 10344266.21 10344266.34 0.2655 0.0851 *

Neptune 23609-10-11 08:24 G 10344353.82 10344353.85 10344353.91 0.0089 0.0086

Neptune 23610-01-07 11:02 G 10344441.89 10344441.96 10344442.06 0.0089 0.0077

Neptune 23610-04-05 14:09 G 10344529.98 10344530.09 10344530.20 0.0089 0.0068

Neptune 23610-07-02 16:48 G 10344618.08 10344618.20 10344618.33 0.0089 0.0059

Neptune 23610-09-28 19:26 G 10344706.17 10344706.31 10344706.46 0.0089 0.0050

Neptune 23610-12-25 22:19 G 10344794.28 10344794.43 10344794.58 0.0089 0.0041

Neptune 23611-03-24 00:57 G 10344882.38 10344882.54 10344882.70 0.0089 0.0032

Neptune 23611-06-20 03:21 G 10344970.48 10344970.64 10344970.81 0.0089 0.0023

Neptune 23611-09-16 06:00 G 10345058.59 10345058.75 10345058.93 0.0089 0.0014

Jupiter 23611-12-11 11:31 G 10345144.88 10345144.98 10345145.08 0.0520 0.0419

Neptune 23611-12-13 08:52 G 10345146.70 10345146.87 10345147.04 0.0089 0.0005

Moon 23612-01-14 14:24 G 10345178.99 10345179.10 10345179.21 0.2676 0.1140

Earth 23612-01-14 15:21 G 10345179.03 10345179.14 10345179.25 0.2676 0.0974 *

Neptune 23612-03-10 11:31 G 10345234.81 10345234.98 10345235.15 0.0089 0.0004

Jupiter 23612-03-10 12:28 G 10345234.90 10345235.02 10345235.15 0.0524 0.0343 *

Neptune 23612-06-06 13:55 G 10345322.92 10345323.08 10345323.25 0.0089 0.0013

Neptune 23612-09-02 16:33 G 10345411.03 10345411.19 10345411.36 0.0089 0.0022

Neptune 23612-11-29 19:12 G 10345499.14 10345499.30 10345499.46 0.0089 0.0030

Neptune 23613-02-25 21:36 G 10345587.26 10345587.40 10345587.56 0.0089 0.0039

Neptune 23613-05-25 00:14 G 10345675.37 10345675.51 10345675.66 0.0089 0.0048

Neptune 23613-08-21 02:38 G 10345763.49 10345763.61 10345763.75 0.0089 0.0056

Neptune 23613-11-17 05:02 G 10345851.61 10345851.71 10345851.84 0.0089 0.0065

Neptune 23614-02-13 07:40 G 10345939.74 10345939.82 10345939.92 0.0089 0.0073

Neptune 23614-05-12 10:04 G 10346027.87 10346027.92 10346028.00 0.0089 0.0082

Mars 23615-05-02 19:26 G 10346383.28 10346383.31 10346383.35 0.1899 0.1822

Mars 23616-02-21 14:24 G 10346678.01 10346678.10 10346678.19 0.1657 0.1171

Saturn 23617-06-27 12:43 G 10347169.91 10347170.03 10347170.15 0.0290 0.0196

Jupiter 23617-07-29 22:48 G 10347202.31 10347202.45 10347202.59 0.0506 0.0096

Saturn 23617-09-24 07:55 G 10347258.67 10347258.83 10347258.99 0.0290 0.0056

Jupiter 23617-10-27 08:24 G 10347291.82 10347291.85 10347291.88 0.0503 0.0487

Saturn 23617-12-22 02:38 G 10347347.46 10347347.61 10347347.77 0.0290 0.0081

Saturn 23618-03-20 20:52 G 10347436.27 10347436.37 10347436.48 0.0289 0.0214

Venus 23619-06-05 03:36 G 10347877.63 10347877.65 10347877.68 0.3691 0.3581

Moon 23622-07-18 16:48 G 10349017.08 10349017.20 10349017.32 0.2657 0.1243

Earth 23622-07-18 18:00 G 10349017.13 10349017.25 10349017.37 0.2655 0.1325 *

Jupiter 23623-12-28 11:45 G 10349544.84 10349544.99 10349545.15 0.0523 0.0151

Mars 23624-09-21 22:48 G 10349813.32 10349813.45 10349813.58 0.1893 0.0510

Venus 23624-12-19 00:57 G 10349901.42 10349901.54 10349901.65 0.3692 0.1537

Moon 23625-01-16 10:19 G 10349929.82 10349929.93 10349930.05 0.2681 0.0618

Earth 23625-01-16 11:02 G 10349929.84 10349929.96 10349930.07 0.2676 0.0638 *

Venus 23626-07-01 19:26 G 10350461.25 10350461.31 10350461.36 0.3679 0.3173

Mars 23627-06-19 14:38 G 10350814.02 10350814.11 10350814.19 0.1640 0.1295

Jupiter 23629-05-18 02:24 G 10351512.48 10351512.60 10351512.72 0.0507 0.0236

Jupiter 23629-08-15 11:31 G 10351601.88 10351601.98 10351602.09 0.0504 0.0345

Venus 23630-07-04 21:36 G 10351925.28 10351925.40 10351925.52 0.3693 0.0424

Venus 23632-01-15 15:21 G 10352485.03 10352485.14 10352485.26 0.3678 0.1384

Saturn 23632-04-08 06:28 G 10352568.71 10352568.77 10352568.83 0.0269 0.0242

Saturn 23632-07-05 18:43 G 10352657.17 10352657.28 10352657.41 0.0270 0.0148

Saturn 23632-10-02 07:26 G 10352745.67 10352745.81 10352745.95 0.0270 0.0051

Saturn 23632-12-29 20:09 G 10352834.20 10352834.34 10352834.49 0.0270 0.0049

Saturn 23633-03-28 09:21 G 10352922.77 10352922.89 10352923.02 0.0270 0.0149

Saturn 23633-06-24 22:48 G 10353011.40 10353011.45 10353011.50 0.0271 0.0252

Mars 23634-02-12 01:40 G 10353243.45 10353243.57 10353243.70 0.1885 0.0841

Jupiter 23635-10-16 11:02 G 10353854.80 10353854.96 10353855.12 0.0522 0.0040

Venus 23636-01-18 18:00 G 10353949.16 10353949.25 10353949.34 0.3693 0.2291

Mars 23636-11-08 22:33 G 10354244.31 10354244.44 10354244.57 0.1646 0.0508

Venus 23637-07-31 12:00 G 10354508.88 10354509.00 10354509.12 0.3678 0.0509

Moon 23638-01-19 06:43 G 10354680.72 10354680.78 10354680.85 0.2683 0.2212

Earth 23638-01-19 06:57 G 10354680.73 10354680.79 10354680.85 0.2676 0.2289 *

Jupiter 23641-03-06 06:00 G 10355822.66 10355822.75 10355822.84 0.0508 0.0375

Jupiter 23641-06-03 14:52 G 10355912.00 10355912.12 10355912.25 0.0504 0.0202

Earth 23642-07-13 21:36 G 10356317.39 10356317.40 10356317.40 0.2655 0.2652

Venus 23643-02-14 08:38 G 10356532.77 10356532.86 10356532.95 0.3677 0.2471

Moon 23645-01-12 00:00 G 10357230.44 10357230.50 10357230.56 0.2673 0.2287

Earth 23645-01-12 00:43 G 10357230.47 10357230.53 10357230.60 0.2676 0.2214 *

Mars 23646-04-01 06:28 G 10357674.64 10357674.77 10357674.91 0.1651 0.0278

Saturn 23646-11-14 11:31 G 10357901.90 10357901.98 10357902.08 0.0290 0.0244

Saturn 23647-02-11 06:57 G 10357990.64 10357990.79 10357990.95 0.0289 0.0102

Saturn 23647-05-11 01:55 G 10358079.42 10358079.58 10358079.74 0.0289 0.0036

Uranus 23647-06-12 03:21 G 10358111.63 10358111.64 10358111.66 0.0146 0.0144

Jupiter 23647-08-04 10:48 G 10358164.80 10358164.95 10358165.10 0.0521 0.0222

Saturn 23647-08-07 20:24 G 10358168.22 10358168.35 10358168.48 0.0289 0.0170

Uranus 23647-09-08 07:55 G 10358199.76 10358199.83 10358199.92 0.0146 0.0122

Uranus 23647-12-05 12:43 G 10358287.93 10358288.03 10358288.15 0.0146 0.0099

Uranus 23648-03-02 17:45 G 10358376.11 10358376.24 10358376.37 0.0146 0.0076

Uranus 23648-05-29 22:33 G 10358464.31 10358464.44 10358464.58 0.0146 0.0053

Uranus 23648-08-26 03:36 G 10358552.50 10358552.65 10358552.80 0.0146 0.0029

Uranus 23648-11-22 08:24 G 10358640.70 10358640.85 10358641.00 0.0146 0.0007

Uranus 23649-02-18 13:26 G 10358728.91 10358729.06 10358729.21 0.0146 0.0018

Uranus 23649-05-17 18:28 G 10358817.13 10358817.27 10358817.42 0.0146 0.0042

Uranus 23649-08-13 23:31 G 10358905.35 10358905.48 10358905.62 0.0146 0.0066

Uranus 23649-11-10 04:33 G 10358993.58 10358993.69 10358993.82 0.0146 0.0091

Uranus 23650-02-06 09:36 G 10359081.82 10359081.90 10359082.01 0.0146 0.0116

Uranus 23650-05-05 14:52 G 10359170.09 10359170.12 10359170.17 0.0146 0.0140

Jupiter 23653-03-22 17:45 G 10360222.10 10360222.24 10360222.38 0.0505 0.0049

Moon 23655-07-16 21:50 G 10361068.27 10361068.41 10361068.54 0.2652 0.0538

Earth 23655-07-16 22:48 G 10361068.31 10361068.45 10361068.59 0.2655 0.0406 *

Mars 23655-08-22 14:38 G 10361105.01 10361105.11 10361105.21 0.1656 0.1053

Moon 23658-01-14 19:26 G 10361981.20 10361981.31 10361981.43 0.2676 0.0722

Earth 23658-01-14 20:24 G 10361981.23 10361981.35 10361981.46 0.2676 0.0640 *

Jupiter 23659-05-23 10:04 G 10362474.82 10362474.92 10362475.02 0.0520 0.0412

Jupiter 23659-08-21 11:16 G 10362564.85 10362564.97 10362565.09 0.0524 0.0352

Saturn 23661-08-26 08:38 G 10363300.86 10363300.86 10363300.86 0.0270 0.0270

Saturn 23661-11-22 20:52 G 10363389.26 10363389.37 10363389.48 0.0270 0.0176

Saturn 23662-02-19 09:21 G 10363477.76 10363477.89 10363478.03 0.0270 0.0080

Saturn 23662-05-18 22:19 G 10363566.28 10363566.43 10363566.57 0.0270 0.0020

Saturn 23662-08-15 11:16 G 10363654.84 10363654.97 10363655.10 0.0271 0.0120

Saturn 23662-11-12 00:43 G 10363743.45 10363743.53 10363743.61 0.0271 0.0223

Mars 23664-03-22 23:16 G 10364240.34 10364240.47 10364240.59 0.1893 0.0665

Jupiter 23665-01-08 20:52 G 10364532.24 10364532.37 10364532.51 0.0506 0.0100

Jupiter 23665-04-08 06:28 G 10364621.73 10364621.77 10364621.80 0.0503 0.0483

Mars 23666-12-18 14:38 G 10365241.05 10365241.11 10365241.18 0.1640 0.1415

Moon 23668-07-18 22:33 G 10365819.33 10365819.44 10365819.55 0.2658 0.1560

Earth 23668-07-18 23:45 G 10365819.39 10365819.49 10365819.59 0.2655 0.1762 *

Moon 23671-01-17 15:36 G 10366732.04 10366732.15 10366732.26 0.2682 0.0862

Earth 23671-01-17 16:04 G 10366732.06 10366732.17 10366732.28 0.2676 0.0978 *

Jupiter 23671-06-09 09:50 G 10366874.75 10366874.91 10366875.06 0.0523 0.0151

Mars 23673-08-13 02:09 G 10367670.46 10367670.59 10367670.72 0.1885 0.0685

Venus 23676-01-10 02:38 G 10368550.54 10368550.61 10368550.69 0.3692 0.2907

Saturn 23676-04-02 13:55 G 10368634.03 10368634.08 10368634.15 0.0290 0.0270

Mars 23676-05-09 22:48 G 10368671.32 10368671.45 10368671.57 0.1646 0.0627

Saturn 23676-06-30 09:36 G 10368722.75 10368722.90 10368723.05 0.0290 0.0126

Saturn 23676-09-27 04:33 G 10368811.53 10368811.69 10368811.85 0.0290 0.0013

Jupiter 23676-10-28 00:14 G 10368842.39 10368842.51 10368842.64 0.0507 0.0242

Saturn 23676-12-24 23:02 G 10368900.32 10368900.46 10368900.60 0.0289 0.0148

Jupiter 23677-01-25 09:36 G 10368931.80 10368931.90 10368932.00 0.0504 0.0339

Saturn 23677-03-23 16:48 G 10368989.17 10368989.20 10368989.25 0.0289 0.0279

Venus 23681-07-25 23:45 G 10370574.37 10370574.49 10370574.61 0.3692 0.0881

Venus 23683-02-05 18:00 G 10371134.17 10371134.25 10371134.34 0.3679 0.2586

Jupiter 23683-03-28 08:52 G 10371184.71 10371184.87 10371185.03 0.0522 0.0042

Earth 23684-01-20 12:00 G 10371482.98 10371483.00 10371483.02 0.2676 0.2629

Mars 23685-09-30 06:43 G 10372101.65 10372101.78 10372101.91 0.1651 0.0161

Venus 23687-02-08 20:24 G 10372598.24 10372598.35 10372598.47 0.3693 0.1052

Moon 23688-07-14 02:38 G 10373119.55 10373119.61 10373119.68 0.2650 0.2342

Earth 23688-07-14 03:21 G 10373119.57 10373119.64 10373119.72 0.2655 0.2184 *

Jupiter 23688-08-16 03:50 G 10373152.58 10373152.66 10373152.76 0.0508 0.0382

Venus 23688-08-21 14:09 G 10373157.98 10373158.09 10373158.21 0.3678 0.0774

Jupiter 23688-11-13 12:57 G 10373241.91 10373242.04 10373242.17 0.0505 0.0197

Uranus 23689-07-03 03:21 G 10373473.57 10373473.64 10373473.73 0.0133 0.0115

Uranus 23689-09-29 08:38 G 10373561.75 10373561.86 10373561.98 0.0133 0.0094

Uranus 23689-12-26 13:40 G 10373649.93 10373650.07 10373650.21 0.0133 0.0074

Uranus 23690-03-24 18:43 G 10373738.13 10373738.28 10373738.43 0.0133 0.0054

Uranus 23690-06-20 23:31 G 10373826.33 10373826.48 10373826.65 0.0133 0.0035

Uranus 23690-09-17 04:33 G 10373914.53 10373914.69 10373914.85 0.0133 0.0015

Neptune 23690-10-17 05:31 G 10373944.71 10373944.73 10373944.78 0.0088 0.0085

Uranus 23690-12-14 09:21 G 10374002.73 10374002.89 10374003.06 0.0133 0.0006

Moon 23691-01-13 05:02 G 10374032.63 10374032.71 10374032.78 0.2673 0.2035

Earth 23691-01-13 05:45 G 10374032.66 10374032.74 10374032.82 0.2676 0.1891 *

Neptune 23691-01-13 07:12 G 10374032.75 10374032.80 10374032.88 0.0088 0.0078 *

Uranus 23691-03-12 14:09 G 10374090.94 10374091.09 10374091.26 0.0133 0.0025

Neptune 23691-04-11 08:52 G 10374120.80 10374120.87 10374120.96 0.0088 0.0071

Saturn 23691-04-11 23:45 G 10374121.39 10374121.49 10374121.59 0.0270 0.0198

Uranus 23691-06-08 18:57 G 10374179.14 10374179.29 10374179.45 0.0133 0.0044

Neptune 23691-07-08 10:33 G 10374208.85 10374208.94 10374209.05 0.0088 0.0064

Saturn 23691-07-09 12:14 G 10374209.87 10374210.01 10374210.14 0.0270 0.0102

Uranus 23691-09-04 23:45 G 10374267.35 10374267.49 10374267.64 0.0133 0.0063

Neptune 23691-10-04 12:28 G 10374296.91 10374297.02 10374297.13 0.0088 0.0056

Saturn 23691-10-06 00:57 G 10374298.39 10374298.54 10374298.68 0.0270 0.0007

Uranus 23691-12-02 04:33 G 10374355.57 10374355.69 10374355.82 0.0133 0.0082

Neptune 23691-12-31 14:09 G 10374384.97 10374385.09 10374385.21 0.0088 0.0049

Saturn 23692-01-02 13:55 G 10374386.94 10374387.08 10374387.22 0.0270 0.0095

Uranus 23692-02-28 09:07 G 10374443.78 10374443.88 10374443.99 0.0133 0.0101

Neptune 23692-03-28 15:36 G 10374473.03 10374473.15 10374473.29 0.0088 0.0043

Saturn 23692-03-31 03:07 G 10374475.53 10374475.63 10374475.73 0.0271 0.0197

Uranus 23692-05-26 13:40 G 10374532.01 10374532.07 10374532.15 0.0133 0.0120

Neptune 23692-06-24 17:16 G 10374561.10 10374561.22 10374561.37 0.0088 0.0035

Venus 23692-08-24 16:48 G 10374622.13 10374622.20 10374622.27 0.3693 0.2896

Neptune 23692-09-20 19:12 G 10374649.17 10374649.30 10374649.44 0.0088 0.0028

Neptune 23692-12-17 20:52 G 10374737.23 10374737.37 10374737.52 0.0088 0.0020

Neptune 23693-03-15 22:33 G 10374825.30 10374825.44 10374825.59 0.0088 0.0014

Neptune 23693-06-12 00:28 G 10374913.37 10374913.52 10374913.67 0.0088 0.0005

Neptune 23693-09-08 02:09 G 10375001.44 10375001.59 10375001.74 0.0088 0.0002

Neptune 23693-12-05 03:50 G 10375089.52 10375089.66 10375089.81 0.0088 0.0010

Neptune 23694-03-03 05:31 G 10375177.59 10375177.73 10375177.88 0.0088 0.0017

Venus 23694-03-07 10:48 G 10375181.83 10375181.95 10375182.07 0.3678 0.1142

Neptune 23694-05-30 07:26 G 10375265.67 10375265.81 10375265.95 0.0088 0.0024

Neptune 23694-08-26 09:07 G 10375353.75 10375353.88 10375354.02 0.0088 0.0032

Neptune 23694-11-22 10:48 G 10375441.83 10375441.95 10375442.09 0.0088 0.0039

Jupiter 23695-01-14 07:55 G 10375494.68 10375494.83 10375494.97 0.0521 0.0236

Neptune 23695-02-18 12:28 G 10375529.91 10375530.02 10375530.16 0.0088 0.0047

Mars 23695-02-20 14:52 G 10375532.01 10375532.12 10375532.23 0.1657 0.0944

Jupiter 23695-04-14 08:38 G 10375584.85 10375584.86 10375584.87 0.0525 0.0522

Neptune 23695-05-17 14:24 G 10375617.99 10375618.10 10375618.23 0.0088 0.0054

Neptune 23695-08-13 16:04 G 10375706.08 10375706.17 10375706.29 0.0088 0.0062

Neptune 23695-11-09 18:00 G 10375794.17 10375794.25 10375794.35 0.0088 0.0069

Neptune 23696-02-05 19:40 G 10375882.26 10375882.32 10375882.41 0.0088 0.0077

Neptune 23696-05-03 21:50 G 10375970.37 10375970.41 10375970.45 0.0088 0.0084

Venus 23699-09-21 07:40 G 10377205.76 10377205.82 10377205.88 0.3677 0.3134

Pluto 23700-08-24 03:07 G 10377542.63 10377542.63 10377542.66 0.0070 0.0069

Jupiter 23700-09-02 16:33 G 10377552.05 10377552.19 10377552.33 0.0505 0.0057

Pluto 23700-11-20 03:36 G 10377630.60 10377630.65 10377630.73 0.0070 0.0060

Pluto 23701-02-16 04:33 G 10377718.60 10377718.69 10377718.78 0.0070 0.0050

Pluto 23701-05-15 05:02 G 10377806.61 10377806.71 10377806.82 0.0070 0.0041

Moon 23701-07-18 03:21 G 10377870.50 10377870.64 10377870.78 0.2654 0.0120

Earth 23701-07-18 04:33 G 10377870.55 10377870.69 10377870.83 0.2655 0.0096 *

Pluto 23701-08-11 05:45 G 10377894.62 10377894.74 10377894.86 0.0070 0.0031

Pluto 23701-11-07 06:14 G 10377982.64 10377982.76 10377982.89 0.0070 0.0022

Pluto 23702-02-03 06:57 G 10378070.66 10378070.79 10378070.92 0.0070 0.0012

Pluto 23702-05-02 07:26 G 10378158.68 10378158.81 10378158.95 0.0071 0.0003

Pluto 23702-07-29 08:09 G 10378246.71 10378246.84 10378246.97 0.0071 0.0007

Pluto 23702-10-25 08:38 G 10378334.74 10378334.86 10378334.99 0.0071 0.0017

Pluto 23703-01-21 09:07 G 10378422.77 10378422.88 10378423.01 0.0071 0.0027

Pluto 23703-04-19 10:04 G 10378510.80 10378510.92 10378511.03 0.0071 0.0036

Pluto 23703-07-16 10:33 G 10378598.84 10378598.94 10378599.04 0.0071 0.0046

Mars 23703-09-22 23:16 G 10378667.35 10378667.47 10378667.60 0.1893 0.0804

Pluto 23703-10-12 11:02 G 10378686.89 10378686.96 10378687.05 0.0071 0.0057

Pluto 23704-01-08 11:45 G 10378774.95 10378774.99 10378775.04 0.0071 0.0067

Moon 23704-01-17 00:28 G 10378783.41 10378783.52 10378783.64 0.2678 0.0443

Earth 23704-01-17 01:26 G 10378783.44 10378783.56 10378783.68 0.2676 0.0311 *

Saturn 23705-11-18 08:24 G 10379454.72 10379454.85 10379454.99 0.0289 0.0174

Saturn 23706-02-15 03:36 G 10379543.49 10379543.65 10379543.81 0.0289 0.0034

Saturn 23706-05-14 22:19 G 10379632.28 10379632.43 10379632.58 0.0289 0.0103

Mars 23706-06-19 15:07 G 10379668.08 10379668.13 10379668.17 0.1640 0.1535

Saturn 23706-08-11 16:19 G 10379721.10 10379721.18 10379721.28 0.0289 0.0235

Jupiter 23706-11-03 07:26 G 10379804.72 10379804.81 10379804.91 0.0520 0.0420

Jupiter 23707-02-01 08:38 G 10379894.74 10379894.86 10379894.98 0.0524 0.0344

Jupiter 23712-06-21 19:26 G 10381862.17 10381862.31 10381862.45 0.0506 0.0094

Jupiter 23712-09-19 04:48 G 10381951.67 10381951.70 10381951.74 0.0503 0.0487

Mars 23713-02-12 02:24 G 10382097.47 10382097.60 10382097.74 0.1886 0.0531

Moon 23714-07-21 04:19 G 10382621.60 10382621.68 10382621.77 0.2658 0.2082

Earth 23714-07-21 05:31 G 10382621.65 10382621.73 10382621.81 0.2655 0.2188 *

Mars 23715-11-09 23:02 G 10383098.34 10383098.46 10383098.58 0.1645 0.0747

Moon 23717-01-18 20:38 G 10383534.26 10383534.36 10383534.47 0.2683 0.1300

Earth 23717-01-18 21:07 G 10383534.28 10383534.38 10383534.48 0.2676 0.1314 *

Jupiter 23718-11-20 08:24 G 10384204.70 10384204.85 10384205.01 0.0523 0.0161

Saturn 23720-08-30 01:26 G 10384853.49 10384853.56 10384853.64 0.0270 0.0229

Saturn 23720-11-26 13:40 G 10384941.95 10384942.07 10384942.20 0.0270 0.0134

Saturn 23721-02-23 02:24 G 10385030.46 10385030.60 10385030.75 0.0270 0.0037

Saturn 23721-05-22 15:21 G 10385119.00 10385119.14 10385119.28 0.0271 0.0063

Saturn 23721-08-19 04:33 G 10385207.57 10385207.69 10385207.81 0.0271 0.0165

Saturn 23721-11-15 18:00 G 10385296.24 10385296.25 10385296.26 0.0271 0.0269

Jupiter 23724-04-09 22:48 G 10386172.33 10386172.45 10386172.57 0.0507 0.0240

Jupiter 23724-07-08 07:55 G 10386261.73 10386261.83 10386261.93 0.0504 0.0339

Mars 23725-04-01 06:57 G 10386528.65 10386528.79 10386528.92 0.1651 0.0052

Jupiter 23730-09-08 06:57 G 10388514.63 10388514.79 10388514.96 0.0522 0.0040

Uranus 23731-07-03 11:16 G 10388812.93 10388812.97 10388813.03 0.0146 0.0135

Uranus 23731-09-29 16:19 G 10388901.09 10388901.18 10388901.27 0.0146 0.0112

Uranus 23731-12-26 20:52 G 10388989.26 10388989.37 10388989.50 0.0146 0.0090

Uranus 23732-03-24 01:40 G 10389077.45 10389077.57 10389077.71 0.0146 0.0067

Uranus 23732-06-20 06:43 G 10389165.64 10389165.78 10389165.93 0.0146 0.0043

Venus 23732-08-17 01:40 G 10389223.47 10389223.57 10389223.67 0.3692 0.2237

Uranus 23732-09-16 11:45 G 10389253.84 10389253.99 10389254.14 0.0146 0.0020

Uranus 23732-12-13 16:33 G 10389342.04 10389342.19 10389342.34 0.0146 0.0006

Uranus 23733-03-11 21:36 G 10389430.25 10389430.40 10389430.55 0.0146 0.0028

Uranus 23733-06-08 02:38 G 10389518.47 10389518.61 10389518.75 0.0146 0.0052

Uranus 23733-09-04 07:40 G 10389606.70 10389606.82 10389606.95 0.0146 0.0076

Uranus 23733-12-01 12:43 G 10389694.93 10389695.03 10389695.15 0.0146 0.0101

Uranus 23734-02-27 17:45 G 10389783.18 10389783.24 10389783.33 0.0146 0.0126

Moon 23734-07-16 08:38 G 10389921.75 10389921.86 10389921.96 0.2650 0.1748

Earth 23734-07-16 09:21 G 10389921.78 10389921.89 10389922.00 0.2655 0.1726 *

Mars 23734-08-22 15:07 G 10389959.01 10389959.13 10389959.24 0.1656 0.0829

Saturn 23735-04-07 10:33 G 10390186.82 10390186.94 10390187.05 0.0290 0.0202

Saturn 23735-07-05 05:45 G 10390275.58 10390275.74 10390275.90 0.0290 0.0061

Saturn 23735-10-02 00:28 G 10390364.37 10390364.52 10390364.68 0.0290 0.0077

Saturn 23735-12-29 18:43 G 10390453.18 10390453.28 10390453.39 0.0289 0.0211

Jupiter 23736-01-28 02:09 G 10390482.50 10390482.59 10390482.68 0.0508 0.0384

Jupiter 23736-04-26 11:02 G 10390571.83 10390571.96 10390572.09 0.0505 0.0194

Moon 23737-01-14 10:04 G 10390834.82 10390834.92 10390835.01 0.2673 0.1630

Earth 23737-01-14 10:48 G 10390834.86 10390834.95 10390835.05 0.2676 0.1570 *

Venus 23738-03-02 22:33 G 10391247.32 10391247.44 10391247.57 0.3692 0.0262

Venus 23739-09-13 16:48 G 10391807.10 10391807.20 10391807.30 0.3679 0.1997

Jupiter 23742-06-27 06:00 G 10392824.60 10392824.75 10392824.90 0.0521 0.0233

Jupiter 23742-09-25 06:43 G 10392914.77 10392914.78 10392914.79 0.0524 0.0522

Mars 23743-03-23 23:45 G 10393094.37 10393094.49 10393094.61 0.1893 0.0964

Venus 23743-09-16 19:12 G 10393271.19 10393271.30 10393271.41 0.3693 0.1669

Mars 23744-01-12 23:16 G 10393389.44 10393389.47 10393389.50 0.1662 0.1609

Venus 23745-03-29 12:57 G 10393830.92 10393831.04 10393831.16 0.3678 0.0164

Moon 23747-07-19 09:21 G 10394672.75 10394672.89 10394673.03 0.2656 0.0278

Earth 23747-07-19 10:33 G 10394672.80 10394672.94 10394673.08 0.2655 0.0495 *

Jupiter 23748-02-13 14:38 G 10394881.97 10394882.11 10394882.25 0.0506 0.0053

Venus 23749-04-01 15:21 G 10395295.11 10395295.14 10395295.18 0.3694 0.3496

Moon 23750-01-17 05:45 G 10395585.62 10395585.74 10395585.86 0.2680 0.0104

Saturn 23750-01-17 04:19 G 10395585.63 10395585.68 10395585.73 0.0269 0.0250 *

Earth 23750-01-17 06:28 G 10395585.65 10395585.77 10395585.89 0.2676 0.0033 *

Saturn 23750-04-15 16:33 G 10395674.08 10395674.19 10395674.31 0.0269 0.0156

Saturn 23750-07-13 05:16 G 10395762.57 10395762.72 10395762.86 0.0270 0.0060

Saturn 23750-10-09 18:00 G 10395851.10 10395851.25 10395851.39 0.0270 0.0039

Venus 23750-10-13 09:36 G 10395854.80 10395854.90 10395855.01 0.3678 0.1784

Saturn 23751-01-06 06:57 G 10395939.67 10395939.79 10395939.92 0.0270 0.0140

Saturn 23751-04-04 20:09 G 10396028.29 10396028.34 10396028.41 0.0271 0.0244

Mars 23752-08-13 02:52 G 10396524.48 10396524.62 10396524.75 0.1886 0.0382

Jupiter 23754-04-15 04:48 G 10397134.61 10397134.70 10397134.79 0.0520 0.0430

Jupiter 23754-07-14 06:00 G 10397224.63 10397224.75 10397224.88 0.0524 0.0334

Mars 23755-05-10 23:02 G 10397525.35 10397525.46 10397525.58 0.1645 0.0859

Jupiter 23759-12-02 18:14 G 10399192.12 10399192.26 10399192.40 0.0506 0.0088

Jupiter 23760-03-01 03:36 G 10399281.63 10399281.65 10399281.67 0.0503 0.0495

Moon 23760-07-21 10:19 G 10399423.88 10399423.93 10399423.98 0.2658 0.2483

Earth 23760-07-21 11:16 G 10399423.96 10399423.97 10399423.99 0.2655 0.2625 *

Mars 23762-01-03 05:31 G 10399954.68 10399954.73 10399954.78 0.1878 0.1739

Moon 23763-01-20 01:55 G 10400336.48 10400336.58 10400336.67 0.2682 0.1579

Earth 23763-01-20 02:09 G 10400336.50 10400336.59 10400336.69 0.2676 0.1654 *

Saturn 23764-08-24 09:21 G 10400918.81 10400918.89 10400918.97 0.0290 0.0250

Mars 23764-09-30 07:12 G 10400955.66 10400955.80 10400955.93 0.1651 0.0077

Saturn 23764-11-21 04:48 G 10401007.55 10401007.70 10401007.85 0.0289 0.0108

Saturn 23765-02-17 23:45 G 10401096.33 10401096.49 10401096.65 0.0289 0.0031

Saturn 23765-05-17 18:14 G 10401185.13 10401185.26 10401185.39 0.0289 0.0166

Jupiter 23766-05-02 06:00 G 10401534.60 10401534.75 10401534.91 0.0523 0.0155

Jupiter 23771-09-20 21:21 G 10403502.27 10403502.39 10403502.52 0.0507 0.0234

Jupiter 23771-12-19 06:28 G 10403591.67 10403591.77 10403591.88 0.0504 0.0345

Uranus 23773-04-27 06:00 G 10404086.72 10404086.75 10404086.82 0.0133 0.0127

Uranus 23773-07-24 11:31 G 10404174.88 10404174.98 10404175.08 0.0133 0.0106

Uranus 23773-10-20 16:33 G 10404263.07 10404263.19 10404263.32 0.0133 0.0086

Uranus 23774-01-16 21:36 G 10404351.26 10404351.40 10404351.55 0.0133 0.0066

Mars 23774-02-20 15:21 G 10404386.01 10404386.14 10404386.26 0.1656 0.0713

Uranus 23774-04-15 02:38 G 10404439.45 10404439.61 10404439.76 0.0133 0.0046

Neptune 23774-07-09 06:14 G 10404524.73 10404524.76 10404524.82 0.0089 0.0085

Uranus 23774-07-12 07:26 G 10404527.65 10404527.81 10404527.98 0.0133 0.0026

Neptune 23774-10-05 08:52 G 10404612.80 10404612.87 10404612.98 0.0089 0.0077

Uranus 23774-10-08 12:28 G 10404615.86 10404616.02 10404616.18 0.0133 0.0006

Neptune 23775-01-01 11:45 G 10404700.89 10404700.99 10404701.11 0.0089 0.0067

Uranus 23775-01-04 17:16 G 10404704.06 10404704.22 10404704.39 0.0133 0.0013

Neptune 23775-03-30 14:24 G 10404788.99 10404789.10 10404789.25 0.0089 0.0058

Uranus 23775-04-02 22:04 G 10404792.27 10404792.42 10404792.58 0.0133 0.0033

Neptune 23775-06-26 17:02 G 10404877.08 10404877.21 10404877.37 0.0089 0.0050

Uranus 23775-06-30 02:52 G 10404880.48 10404880.62 10404880.77 0.0133 0.0052

Neptune 23775-09-22 19:55 G 10404965.19 10404965.33 10404965.49 0.0089 0.0040

Uranus 23775-09-26 07:40 G 10404968.69 10404968.82 10404968.96 0.0133 0.0071

Neptune 23775-12-19 22:33 G 10405053.29 10405053.44 10405053.61 0.0089 0.0031

Uranus 23775-12-23 12:14 G 10405056.90 10405057.01 10405057.14 0.0133 0.0090

Neptune 23776-03-17 01:26 G 10405141.40 10405141.56 10405141.73 0.0089 0.0022

Uranus 23776-03-20 17:02 G 10405145.13 10405145.21 10405145.31 0.0133 0.0109

Neptune 23776-06-13 04:04 G 10405229.50 10405229.67 10405229.84 0.0089 0.0013

Uranus 23776-06-16 21:50 G 10405233.37 10405233.41 10405233.45 0.0133 0.0127

Neptune 23776-09-09 06:43 G 10405317.61 10405317.78 10405317.95 0.0089 0.0004

Neptune 23776-12-06 09:21 G 10405405.72 10405405.89 10405406.06 0.0089 0.0005

Neptune 23777-03-04 12:00 G 10405493.83 10405494.00 10405494.17 0.0089 0.0014

Neptune 23777-05-31 14:38 G 10405581.95 10405582.11 10405582.27 0.0089 0.0022

Neptune 23777-08-27 17:02 G 10405670.06 10405670.21 10405670.37 0.0089 0.0031

Neptune 23777-11-23 19:26 G 10405758.17 10405758.31 10405758.47 0.0089 0.0040

Jupiter 23778-02-18 05:45 G 10405844.57 10405844.74 10405844.90 0.0522 0.0032

Neptune 23778-02-19 22:04 G 10405846.29 10405846.42 10405846.57 0.0089 0.0049

Neptune 23778-05-19 00:28 G 10405934.41 10405934.52 10405934.66 0.0089 0.0058

Neptune 23778-08-15 03:21 G 10406022.53 10406022.64 10406022.75 0.0089 0.0066

Neptune 23778-11-11 05:45 G 10406110.66 10406110.74 10406110.84 0.0089 0.0074

Neptune 23779-02-07 07:55 G 10406198.79 10406198.83 10406198.91 0.0089 0.0084

Saturn 23779-09-02 17:45 G 10406406.15 10406406.24 10406406.35 0.0270 0.0190

Saturn 23779-11-30 06:28 G 10406494.63 10406494.77 10406494.90 0.0270 0.0094

Saturn 23780-02-26 19:12 G 10406583.15 10406583.30 10406583.44 0.0270 0.0008

Saturn 23780-05-25 07:55 G 10406671.70 10406671.83 10406671.97 0.0271 0.0106

Moon 23780-07-16 14:24 G 10406723.98 10406724.10 10406724.21 0.2651 0.1472

Earth 23780-07-16 15:07 G 10406724.01 10406724.13 10406724.26 0.2655 0.1271 *

Saturn 23780-08-21 21:21 G 10406760.30 10406760.39 10406760.48 0.0271 0.0208

Mars 23782-09-22 00:14 G 10407521.40 10407521.51 10407521.62 0.1893 0.1124

Moon 23783-01-15 15:07 G 10407637.03 10407637.13 10407637.23 0.2674 0.1408

Earth 23783-01-15 15:50 G 10407637.06 10407637.16 10407637.27 0.2676 0.1242 *

Jupiter 23783-07-10 00:43 G 10407812.44 10407812.53 10407812.63 0.0508 0.0378

Mars 23783-07-13 23:16 G 10407816.42 10407816.47 10407816.53 0.1662 0.1496

Venus 23783-09-08 03:21 G 10407872.63 10407872.64 10407872.66 0.3691 0.3646

Jupiter 23783-10-07 09:36 G 10407901.78 10407901.90 10407902.03 0.0504 0.0199

Pluto 23786-10-04 04:04 G 10408994.60 10408994.67 10408994.77 0.0074 0.0067

Pluto 23786-12-31 06:57 G 10409082.65 10409082.79 10409082.94 0.0074 0.0050

Pluto 23787-03-29 09:21 G 10409170.72 10409170.89 10409171.07 0.0073 0.0034

Pluto 23787-06-25 11:45 G 10409258.81 10409258.99 10409259.20 0.0073 0.0018

Pluto 23787-09-21 14:38 G 10409346.91 10409347.11 10409347.31 0.0073 0.0001

Pluto 23787-12-18 16:48 G 10409435.02 10409435.20 10409435.41 0.0073 0.0016

Pluto 23788-03-15 19:12 G 10409523.14 10409523.30 10409523.50 0.0073 0.0032

Pluto 23788-06-11 21:36 G 10409611.27 10409611.40 10409611.57 0.0073 0.0048

Pluto 23788-09-08 00:00 G 10409699.43 10409699.50 10409699.62 0.0073 0.0064

Venus 23789-03-24 00:43 G 10409896.42 10409896.53 10409896.64 0.3692 0.1577

Jupiter 23789-12-07 04:19 G 10410154.53 10410154.68 10410154.83 0.0521 0.0228

Venus 23790-10-04 19:26 G 10410456.25 10410456.31 10410456.36 0.3679 0.3192

Mars 23792-02-12 03:07 G 10410951.49 10410951.63 10410951.77 0.1886 0.0228

Moon 23793-07-19 15:07 G 10411475.00 10411475.13 10411475.26 0.2656 0.0839

Earth 23793-07-19 16:19 G 10411475.05 10411475.18 10411475.31 0.2655 0.0935 *

Saturn 23794-01-11 10:33 G 10411650.91 10411650.94 10411650.98 0.0290 0.0284

Saturn 23794-04-10 06:14 G 10411739.62 10411739.76 10411739.91 0.0290 0.0140

Saturn 23794-07-08 01:26 G 10411828.39 10411828.56 10411828.72 0.0290 0.0005

Saturn 23794-10-04 19:55 G 10411917.19 10411917.33 10411917.47 0.0290 0.0137

Venus 23794-10-07 21:36 G 10411920.28 10411920.40 10411920.52 0.3693 0.0418

Mars 23794-11-08 23:16 G 10411952.36 10411952.47 10411952.58 0.1645 0.0977

Saturn 23795-01-01 13:55 G 10412006.03 10412006.08 10412006.14 0.0289 0.0269

Jupiter 23795-07-26 12:43 G 10412211.89 10412212.03 10412212.17 0.0506 0.0053

Moon 23796-01-18 10:48 G 10412387.83 10412387.95 10412388.07 0.2681 0.0299

Earth 23796-01-18 11:31 G 10412387.86 10412387.98 10412388.10 0.2676 0.0350 *

Venus 23796-04-19 15:21 G 10412480.03 10412480.14 10412480.25 0.3679 0.1401

Venus 23800-04-23 18:00 G 10413944.15 10413944.25 10413944.34 0.3693 0.2280

Mars 23801-07-05 06:00 G 10414381.68 10414381.75 10414381.83 0.1878 0.1573

Jupiter 23801-09-26 03:07 G 10414464.54 10414464.63 10414464.73 0.0519 0.0422

Venus 23801-11-04 11:45 G 10414503.87 10414503.99 10414504.11 0.3678 0.0470

Jupiter 23801-12-25 04:33 G 10414554.56 10414554.69 10414554.81 0.0523 0.0341

Mars 23804-04-01 07:12 G 10415382.67 10415382.80 10415382.94 0.1650 0.0194

Jupiter 23807-05-15 16:19 G 10416522.05 10416522.18 10416522.32 0.0507 0.0089

Venus 23807-05-21 08:38 G 10416527.77 10416527.86 10416527.95 0.3677 0.2439

Jupiter 23807-08-13 01:40 G 10416611.56 10416611.57 10416611.60 0.0503 0.0496

Saturn 23809-01-20 20:52 G 10417138.28 10417138.37 10417138.46 0.0269 0.0211

Moon 23809-01-21 07:12 G 10417138.72 10417138.80 10417138.88 0.2682 0.1969

Earth 23809-01-21 07:26 G 10417138.73 10417138.81 10417138.88 0.2676 0.1990 *

Saturn 23809-04-19 09:07 G 10417226.75 10417226.88 10417227.01 0.0269 0.0116

Saturn 23809-07-16 21:50 G 10417315.26 10417315.41 10417315.56 0.0270 0.0019

Saturn 23809-10-13 10:48 G 10417403.81 10417403.95 10417404.09 0.0270 0.0081

Saturn 23810-01-09 23:45 G 10417492.39 10417492.49 10417492.60 0.0270 0.0183

Mars 23813-08-22 15:21 G 10418813.02 10418813.14 10418813.27 0.1656 0.0599

Jupiter 23813-10-13 03:36 G 10418864.50 10418864.65 10418864.81 0.0522 0.0149

Uranus 23815-07-24 18:43 G 10419514.22 10419514.28 10419514.36 0.0146 0.0129

Uranus 23815-10-20 23:31 G 10419602.39 10419602.48 10419602.59 0.0146 0.0106

Moon 23816-01-15 00:57 G 10419688.52 10419688.54 10419688.56 0.2671 0.2619

Earth 23816-01-15 01:26 G 10419688.52 10419688.56 10419688.60 0.2676 0.2475 *

Uranus 23816-01-17 04:19 G 10419690.57 10419690.68 10419690.81 0.0146 0.0083

Uranus 23816-04-14 09:21 G 10419778.76 10419778.89 10419779.03 0.0146 0.0059

Uranus 23816-07-11 14:09 G 10419866.95 10419867.09 10419867.24 0.0146 0.0036

Uranus 23816-10-07 19:12 G 10419955.15 10419955.30 10419955.45 0.0146 0.0013

Uranus 23817-01-04 00:14 G 10420043.36 10420043.51 10420043.66 0.0146 0.0011

Uranus 23817-04-02 05:02 G 10420131.57 10420131.71 10420131.86 0.0146 0.0036

Uranus 23817-06-29 10:04 G 10420219.79 10420219.92 10420220.07 0.0146 0.0060

Uranus 23817-09-25 15:21 G 10420308.02 10420308.14 10420308.27 0.0146 0.0084

Uranus 23817-12-22 20:38 G 10420396.26 10420396.36 10420396.46 0.0146 0.0108

Uranus 23818-03-21 01:40 G 10420484.51 10420484.57 10420484.63 0.0146 0.0133

Jupiter 23819-03-03 20:09 G 10420832.21 10420832.34 10420832.46 0.0507 0.0227

Jupiter 23819-06-01 05:16 G 10420921.62 10420921.72 10420921.82 0.0504 0.0353

Mars 23822-03-24 00:14 G 10421948.41 10421948.51 10421948.61 0.1893 0.1255

Mars 23823-01-12 23:45 G 10422243.41 10422243.49 10422243.56 0.1662 0.1379

Saturn 23823-08-29 04:48 G 10422471.58 10422471.70 10422471.83 0.0290 0.0189

Saturn 23823-11-26 00:14 G 10422560.35 10422560.51 10422560.67 0.0290 0.0047

Saturn 23824-02-22 18:57 G 10422649.14 10422649.29 10422649.45 0.0289 0.0090

Saturn 23824-05-21 13:12 G 10422737.95 10422738.05 10422738.15 0.0289 0.0224

Jupiter 23825-08-01 03:21 G 10423174.48 10423174.64 10423174.81 0.0522 0.0035

Moon 23826-07-18 19:55 G 10423526.20 10423526.33 10423526.46 0.2653 0.0884

Earth 23826-07-18 21:07 G 10423526.24 10423526.38 10423526.51 0.2656 0.0822 *

Moon 23829-01-16 20:09 G 10424439.23 10424439.34 10424439.45 0.2676 0.0960

Earth 23829-01-16 20:52 G 10424439.26 10424439.37 10424439.48 0.2676 0.0917 *

Jupiter 23830-12-20 23:31 G 10425142.39 10425142.48 10425142.57 0.0508 0.0370

Jupiter 23831-03-20 08:24 G 10425231.72 10425231.85 10425231.98 0.0505 0.0207

Mars 23831-08-14 03:36 G 10425378.51 10425378.65 10425378.79 0.1886 0.0062

Mars 23834-05-10 23:31 G 10426379.38 10426379.48 10426379.58 0.1645 0.1102

Jupiter 23837-05-20 02:52 G 10427484.48 10427484.62 10427484.78 0.0521 0.0218

Saturn 23838-06-09 21:50 G 10427870.36 10427870.41 10427870.47 0.0270 0.0247

Saturn 23838-09-06 10:04 G 10427958.81 10427958.92 10427959.04 0.0270 0.0153

Saturn 23838-12-03 22:48 G 10428047.30 10428047.45 10428047.59 0.0270 0.0056

Saturn 23839-03-02 11:31 G 10428135.83 10428135.98 10428136.12 0.0270 0.0043

Saturn 23839-05-30 00:28 G 10428224.40 10428224.52 10428224.65 0.0270 0.0144

Moon 23839-07-21 20:52 G 10428277.25 10428277.37 10428277.50 0.2656 0.1141

Earth 23839-07-21 22:19 G 10428277.31 10428277.43 10428277.54 0.2655 0.1378 *

Saturn 23839-08-26 13:40 G 10428313.02 10428313.07 10428313.14 0.0271 0.0248

Venus 23840-04-15 02:24 G 10428545.53 10428545.60 10428545.67 0.3692 0.2970

Mars 23841-01-03 06:28 G 10428808.68 10428808.77 10428808.86 0.1878 0.1420

Moon 23842-01-19 15:50 G 10429190.05 10429190.16 10429190.28 0.2681 0.0551

Earth 23842-01-19 16:33 G 10429190.08 10429190.19 10429190.31 0.2676 0.0690 *

Jupiter 23843-01-06 11:45 G 10429541.85 10429541.99 10429542.13 0.0505 0.0062

Mars 23843-10-01 07:26 G 10429809.68 10429809.81 10429809.95 0.1650 0.0306

Venus 23845-10-29 23:31 G 10430569.36 10430569.48 10430569.60 0.3692 0.0924

Venus 23847-05-12 18:00 G 10431129.17 10431129.25 10431129.33 0.3679 0.2611

Jupiter 23849-03-08 01:40 G 10431794.47 10431794.57 10431794.67 0.0520 0.0413

Jupiter 23849-06-06 02:52 G 10431884.51 10431884.62 10431884.75 0.0523 0.0350

Venus 23851-05-15 20:09 G 10432593.23 10432593.34 10432593.46 0.3693 0.1023

Venus 23852-11-25 14:09 G 10433152.97 10433153.09 10433153.20 0.3678 0.0807

Saturn 23853-01-15 05:31 G 10433203.63 10433203.73 10433203.84 0.0291 0.0227

Mars 23853-02-20 15:36 G 10433240.02 10433240.15 10433240.28 0.1656 0.0486

Saturn 23853-04-14 00:57 G 10433292.39 10433292.54 10433292.70 0.0290 0.0084

Saturn 23853-07-11 20:09 G 10433381.18 10433381.34 10433381.50 0.0290 0.0056

Saturn 23853-10-08 14:24 G 10433469.99 10433470.10 10433470.22 0.0290 0.0191

Jupiter 23854-10-25 14:52 G 10433851.98 10433852.12 10433852.25 0.0507 0.0088

Earth 23855-01-22 12:28 G 10433940.96 10433941.02 10433941.08 0.2676 0.2329

Moon 23855-01-22 12:28 G 10433940.97 10433941.02 10433941.07 0.2683 0.2368 *

Jupiter 23855-01-23 00:14 G 10433941.49 10433941.51 10433941.53 0.0504 0.0497

Neptune 23855-07-16 04:19 G 10434115.65 10434115.68 10434115.73 0.0088 0.0084

Neptune 23855-10-12 06:00 G 10434203.69 10434203.75 10434203.83 0.0088 0.0077

Neptune 23856-01-08 07:40 G 10434291.75 10434291.82 10434291.92 0.0088 0.0070

Neptune 23856-04-05 09:36 G 10434379.80 10434379.90 10434380.00 0.0088 0.0062

Neptune 23856-07-02 11:16 G 10434467.86 10434467.97 10434468.08 0.0088 0.0055

Neptune 23856-09-28 12:43 G 10434555.92 10434556.03 10434556.16 0.0088 0.0049

Venus 23856-11-28 16:33 G 10434617.12 10434617.19 10434617.27 0.3693 0.2888

Neptune 23856-12-25 14:24 G 10434643.98 10434644.10 10434644.24 0.0088 0.0041

Neptune 23857-03-23 16:19 G 10434732.05 10434732.18 10434732.32 0.0088 0.0034

Uranus 23857-05-18 14:09 G 10434788.03 10434788.09 10434788.18 0.0133 0.0118

Neptune 23857-06-19 18:00 G 10434820.11 10434820.25 10434820.39 0.0088 0.0026

Uranus 23857-08-14 19:12 G 10434876.20 10434876.30 10434876.43 0.0133 0.0098

Neptune 23857-09-15 19:40 G 10434908.18 10434908.32 10434908.47 0.0088 0.0019

Uranus 23857-11-11 00:43 G 10434964.39 10434964.53 10434964.66 0.0133 0.0077

Neptune 23857-12-12 21:21 G 10434996.25 10434996.39 10434996.54 0.0088 0.0012

Uranus 23858-02-07 05:45 G 10435052.59 10435052.74 10435052.89 0.0133 0.0057

Neptune 23858-03-10 23:16 G 10435084.32 10435084.47 10435084.62 0.0088 0.0004

Uranus 23858-05-06 10:33 G 10435140.79 10435140.94 10435141.10 0.0133 0.0037

Neptune 23858-06-07 00:57 G 10435172.39 10435172.54 10435172.69 0.0088 0.0003

Venus 23858-06-11 10:33 G 10435176.83 10435176.94 10435177.06 0.3678 0.1105

Uranus 23858-08-02 15:36 G 10435228.99 10435229.15 10435229.31 0.0133 0.0018

Neptune 23858-09-03 02:38 G 10435260.47 10435260.61 10435260.76 0.0088 0.0011

Uranus 23858-10-29 20:24 G 10435317.19 10435317.35 10435317.52 0.0133 0.0004

Neptune 23858-11-30 04:19 G 10435348.54 10435348.68 10435348.83 0.0088 0.0018

Uranus 23859-01-26 01:26 G 10435405.40 10435405.56 10435405.72 0.0133 0.0022

Neptune 23859-02-26 06:14 G 10435436.62 10435436.76 10435436.90 0.0088 0.0025

Uranus 23859-04-24 06:14 G 10435493.60 10435493.76 10435493.91 0.0133 0.0041

Neptune 23859-05-25 07:55 G 10435524.70 10435524.83 10435524.97 0.0088 0.0033

Moon 23859-07-17 00:57 G 10435577.53 10435577.54 10435577.55 0.2649 0.2633

Earth 23859-07-17 01:26 G 10435577.55 10435577.56 10435577.58 0.2656 0.2626 *

Uranus 23859-07-21 11:02 G 10435581.81 10435581.96 10435582.10 0.0133 0.0060

Neptune 23859-08-21 09:36 G 10435612.78 10435612.90 10435613.04 0.0088 0.0041

Uranus 23859-10-17 15:36 G 10435670.03 10435670.15 10435670.29 0.0133 0.0079

Neptune 23859-11-17 11:16 G 10435700.86 10435700.97 10435701.11 0.0088 0.0048

Uranus 23860-01-13 20:24 G 10435758.25 10435758.35 10435758.46 0.0133 0.0098

Neptune 23860-02-13 13:12 G 10435788.94 10435789.05 10435789.17 0.0088 0.0055

Uranus 23860-04-11 00:57 G 10435846.47 10435846.54 10435846.62 0.0133 0.0117

Neptune 23860-05-11 14:52 G 10435877.03 10435877.12 10435877.23 0.0088 0.0063

Neptune 23860-08-07 16:48 G 10435965.12 10435965.20 10435965.29 0.0088 0.0070

Neptune 23860-11-03 18:28 G 10436053.21 10436053.27 10436053.35 0.0088 0.0078

Neptune 23861-01-30 20:09 G 10436141.33 10436141.34 10436141.39 0.0088 0.0086

Jupiter 23861-03-25 02:24 G 10436194.45 10436194.60 10436194.75 0.0522 0.0161

Mars 23861-09-22 00:57 G 10436375.45 10436375.54 10436375.62 0.1894 0.1428

Moon 23862-01-15 05:45 G 10436490.68 10436490.74 10436490.81 0.2671 0.2183

Earth 23862-01-15 06:28 G 10436490.70 10436490.77 10436490.84 0.2676 0.2155 *

Mars 23862-07-13 23:45 G 10436670.41 10436670.49 10436670.57 0.1661 0.1268

Venus 23863-12-26 07:26 G 10437200.74 10437200.81 10437200.87 0.3677 0.3091

Jupiter 23866-08-13 18:28 G 10438162.14 10438162.27 10438162.39 0.0508 0.0227

Jupiter 23866-11-11 03:36 G 10438251.55 10438251.65 10438251.75 0.0504 0.0355

Saturn 23867-10-28 00:43 G 10438602.53 10438602.53 10438602.54 0.0269 0.0268

Saturn 23868-01-24 12:57 G 10438690.93 10438691.04 10438691.15 0.0269 0.0175

Saturn 23868-04-22 01:26 G 10438779.42 10438779.56 10438779.70 0.0269 0.0079

Saturn 23868-07-19 14:09 G 10438867.94 10438868.09 10438868.23 0.0270 0.0019

Saturn 23868-10-16 02:52 G 10438956.50 10438956.62 10438956.76 0.0270 0.0120

Saturn 23869-01-12 16:04 G 10439045.10 10439045.17 10439045.26 0.0270 0.0222

Mars 23871-02-12 03:50 G 10439805.52 10439805.66 10439805.80 0.1886 0.0080

Moon 23872-07-19 01:40 G 10440328.43 10440328.57 10440328.71 0.2654 0.0602

Earth 23872-07-19 02:52 G 10440328.48 10440328.62 10440328.76 0.2656 0.0369 *

Jupiter 23873-01-11 01:26 G 10440504.40 10440504.56 10440504.72 0.0521 0.0033

Mars 23873-11-08 23:45 G 10440806.40 10440806.49 10440806.58 0.1645 0.1214

Moon 23875-01-18 01:12 G 10441241.44 10441241.55 10441241.66 0.2678 0.0768

Earth 23875-01-18 01:55 G 10441241.47 10441241.58 10441241.70 0.2676 0.0591 *

Jupiter 23878-06-01 22:19 G 10442472.33 10442472.43 10442472.52 0.0508 0.0363

Jupiter 23878-08-30 07:12 G 10442561.67 10442561.80 10442561.93 0.0505 0.0215

Mars 23880-07-04 06:43 G 10443235.68 10443235.78 10443235.88 0.1879 0.1276

Saturn 23882-06-04 04:04 G 10443935.63 10443935.67 10443935.72 0.0290 0.0277

Saturn 23882-08-31 23:45 G 10444024.35 10444024.49 10444024.64 0.0290 0.0133

Saturn 23882-11-28 18:57 G 10444113.13 10444113.29 10444113.46 0.0290 0.0009

Saturn 23883-02-25 13:40 G 10444201.93 10444202.07 10444202.21 0.0289 0.0145

Mars 23883-04-01 07:40 G 10444236.69 10444236.82 10444236.95 0.1650 0.0425

Saturn 23883-05-25 07:40 G 10444290.78 10444290.82 10444290.87 0.0289 0.0277

Jupiter 23884-10-30 00:57 G 10444814.39 10444814.54 10444814.69 0.0521 0.0217

Moon 23885-07-22 02:52 G 10445079.51 10445079.62 10445079.72 0.2657 0.1746

Earth 23885-07-22 04:04 G 10445079.57 10445079.67 10445079.77 0.2655 0.1808 *

Moon 23888-01-20 21:07 G 10445992.27 10445992.38 10445992.49 0.2681 0.1002

Earth 23888-01-20 21:36 G 10445992.29 10445992.40 10445992.51 0.2676 0.1020 *

Jupiter 23890-03-21 01:55 G 10446782.56 10446782.58 10446782.60 0.0509 0.0503

Jupiter 23890-06-18 10:33 G 10446871.80 10446871.94 10446872.08 0.0506 0.0071

Mars 23892-08-21 15:50 G 10447667.03 10447667.16 10447667.29 0.1656 0.0366

Jupiter 23896-08-18 00:28 G 10449124.42 10449124.52 10449124.63 0.0520 0.0402

Jupiter 23896-11-16 01:55 G 10449214.46 10449214.58 10449214.70 0.0524 0.0363

Venus 23896-11-20 01:26 G 10449218.46 10449218.56 10449218.65 0.3692 0.2297

Saturn 23897-06-12 13:40 G 10449422.99 10449423.07 10449423.16 0.0269 0.0212

Saturn 23897-09-09 02:09 G 10449511.46 10449511.59 10449511.72 0.0270 0.0117

Saturn 23897-12-06 14:38 G 10449599.97 10449600.11 10449600.26 0.0270 0.0020

Saturn 23898-03-05 03:21 G 10449688.50 10449688.64 10449688.79 0.0270 0.0080

Saturn 23898-06-01 16:33 G 10449777.08 10449777.19 10449777.30 0.0270 0.0181

Uranus 23899-05-17 21:36 G 10450127.39 10450127.40 10450127.43 0.0146 0.0144

Uranus 23899-08-14 02:38 G 10450215.53 10450215.61 10450215.69 0.0146 0.0121

Uranus 23899-11-10 07:12 G 10450303.70 10450303.80 10450303.91 0.0146 0.0098

Uranus 23900-02-06 12:00 G 10450391.88 10450392.00 10450392.13 0.0146 0.0075

Uranus 23900-05-05 17:02 G 10450480.07 10450480.21 10450480.35 0.0146 0.0052

Uranus 23900-08-01 21:50 G 10450568.27 10450568.41 10450568.56 0.0146 0.0029

Uranus 23900-10-29 02:52 G 10450656.47 10450656.62 10450656.77 0.0146 0.0005

Earth 23901-01-23 17:31 G 10450743.23 10450743.23 10450743.23 0.2676 0.2674

Moon 23901-01-23 17:45 G 10450743.23 10450743.24 10450743.25 0.2683 0.2656 *

Uranus 23901-01-25 07:55 G 10450744.68 10450744.83 10450744.98 0.0146 0.0019

Mars 23901-03-24 01:12 G 10450802.47 10450802.55 10450802.62 0.1894 0.1576

Uranus 23901-04-23 12:57 G 10450832.89 10450833.04 10450833.18 0.0146 0.0043

Uranus 23901-07-20 18:00 G 10450921.11 10450921.25 10450921.38 0.0146 0.0067

Uranus 23901-10-16 22:48 G 10451009.34 10451009.45 10451009.58 0.0146 0.0092

Mars 23902-01-13 00:00 G 10451097.40 10451097.50 10451097.59 0.1661 0.1156

Uranus 23902-01-13 04:04 G 10451097.59 10451097.67 10451097.77 0.0146 0.0116 *

Jupiter 23902-04-07 13:55 G 10451181.94 10451182.08 10451182.22 0.0506 0.0072

Uranus 23902-04-11 09:21 G 10451185.86 10451185.89 10451185.93 0.0146 0.0141

Venus 23902-06-06 22:19 G 10451242.31 10451242.43 10451242.55 0.3692 0.0289

Venus 23903-12-18 16:33 G 10451802.09 10451802.19 10451802.29 0.3679 0.2032

Moon 23905-07-18 06:43 G 10452379.70 10452379.78 10452379.85 0.2651 0.2268

Earth 23905-07-18 07:26 G 10452379.73 10452379.81 10452379.89 0.2656 0.2168 *

Venus 23907-12-21 18:57 G 10453266.18 10453266.29 10453266.40 0.3693 0.1646

Moon 23908-01-17 10:48 G 10453292.87 10453292.95 10453293.03 0.2672 0.1960

Earth 23908-01-17 11:31 G 10453292.90 10453292.98 10453293.07 0.2676 0.1830 *

Jupiter 23908-09-05 01:12 G 10453524.40 10453524.55 10453524.70 0.0522 0.0173

Venus 23909-07-03 12:57 G 10453825.91 10453826.04 10453826.16 0.3678 0.0221

Mars 23910-08-14 04:19 G 10454232.54 10454232.68 10454232.81 0.1886 0.0244

Saturn 23912-01-19 23:45 G 10454756.36 10454756.49 10454756.62 0.0291 0.0176

Saturn 23912-04-17 18:57 G 10454845.13 10454845.29 10454845.46 0.0290 0.0034

Saturn 23912-07-15 13:55 G 10454933.93 10454934.08 10454934.23 0.0290 0.0105

Saturn 23912-10-12 08:09 G 10455022.76 10455022.84 10455022.93 0.0290 0.0239

Mars 23913-05-11 00:00 G 10455233.42 10455233.50 10455233.57 0.1645 0.1334

Venus 23913-07-06 15:21 G 10455290.10 10455290.14 10455290.17 0.3693 0.3485

Jupiter 23914-01-24 17:02 G 10455492.08 10455492.21 10455492.33 0.0508 0.0222

Jupiter 23914-04-24 02:09 G 10455581.49 10455581.59 10455581.69 0.0504 0.0360

Venus 23915-01-17 09:21 G 10455849.79 10455849.89 10455850.00 0.3678 0.1751

Moon 23918-07-21 07:26 G 10457130.67 10457130.81 10457130.96 0.2654 0.0083

Earth 23918-07-21 08:52 G 10457130.73 10457130.87 10457131.01 0.2656 0.0088 *

Mars 23920-01-04 07:12 G 10457662.69 10457662.80 10457662.91 0.1879 0.1109

Jupiter 23920-06-24 00:28 G 10457834.36 10457834.52 10457834.68 0.0521 0.0016

Moon 23921-01-19 06:14 G 10458043.64 10458043.76 10458043.88 0.2678 0.0312

Earth 23921-01-19 06:57 G 10458043.68 10458043.79 10458043.91 0.2676 0.0271 *

Mars 23922-10-01 07:55 G 10458663.70 10458663.83 10458663.96 0.1650 0.0538

Jupiter 23925-11-12 20:38 G 10459802.27 10459802.36 10459802.46 0.0509 0.0362

Jupiter 23926-02-10 05:31 G 10459891.61 10459891.73 10459891.86 0.0505 0.0219

Saturn 23926-10-31 16:33 G 10460155.13 10460155.19 10460155.26 0.0269 0.0234

Saturn 23927-01-28 04:48 G 10460243.58 10460243.70 10460243.83 0.0269 0.0140

Saturn 23927-04-26 17:16 G 10460332.08 10460332.22 10460332.37 0.0269 0.0044

Saturn 23927-07-24 06:00 G 10460420.61 10460420.75 10460420.90 0.0269 0.0056

Saturn 23927-10-20 19:12 G 10460509.18 10460509.30 10460509.42 0.0270 0.0156

Saturn 23928-01-17 08:09 G 10460597.81 10460597.84 10460597.89 0.0270 0.0259

Moon 23931-07-24 08:52 G 10461881.78 10461881.87 10461881.95 0.2659 0.2044

Earth 23931-07-24 09:50 G 10461881.84 10461881.91 10461881.98 0.2655 0.2250 *

Mars 23932-02-21 15:50 G 10462094.03 10462094.16 10462094.30 0.1656 0.0257

Jupiter 23932-04-11 23:16 G 10462144.32 10462144.47 10462144.62 0.0520 0.0212

Moon 23934-01-22 02:24 G 10462794.49 10462794.60 10462794.70 0.2681 0.1240

Earth 23934-01-22 02:52 G 10462794.51 10462794.62 10462794.72 0.2676 0.1360 *

Jupiter 23937-09-01 00:28 G 10464112.50 10464112.52 10464112.55 0.0510 0.0497

Jupiter 23937-11-29 09:21 G 10464201.75 10464201.89 10464202.03 0.0506 0.0080

Neptune 23939-04-07 03:50 G 10464695.63 10464695.66 10464695.72 0.0089 0.0085

Neptune 23939-07-04 06:28 G 10464783.70 10464783.77 10464783.88 0.0089 0.0076

Neptune 23939-09-30 09:21 G 10464871.79 10464871.89 10464872.02 0.0089 0.0067

Neptune 23939-12-27 12:00 G 10464959.89 10464960.00 10464960.15 0.0089 0.0058

Neptune 23940-03-24 15:07 G 10465047.99 10465048.13 10465048.27 0.0089 0.0049

Neptune 23940-06-20 17:45 G 10465136.09 10465136.24 10465136.39 0.0089 0.0040

Neptune 23940-09-16 20:24 G 10465224.19 10465224.35 10465224.51 0.0089 0.0031

Mars 23940-09-22 01:26 G 10465229.50 10465229.56 10465229.61 0.1894 0.1718

Neptune 23940-12-13 23:02 G 10465312.30 10465312.46 10465312.63 0.0089 0.0022

Neptune 23941-03-12 01:40 G 10465400.41 10465400.57 10465400.74 0.0089 0.0013

Uranus 23941-03-12 17:16 G 10465401.19 10465401.22 10465401.26 0.0133 0.0129

Saturn 23941-06-07 22:19 G 10465488.33 10465488.43 10465488.54 0.0290 0.0226

Neptune 23941-06-08 04:33 G 10465488.52 10465488.69 10465488.86 0.0089 0.0005 *

Uranus 23941-06-08 22:19 G 10465489.35 10465489.43 10465489.54 0.0133 0.0109

Mars 23941-07-14 00:14 G 10465524.41 10465524.51 10465524.61 0.1661 0.1035

Neptune 23941-09-04 07:12 G 10465576.63 10465576.80 10465576.97 0.0089 0.0006

Saturn 23941-09-04 18:00 G 10465577.09 10465577.25 10465577.40 0.0290 0.0082

Uranus 23941-09-05 03:21 G 10465577.53 10465577.64 10465577.78 0.0133 0.0089

Neptune 23941-12-01 09:36 G 10465664.74 10465664.90 10465665.07 0.0089 0.0014

Uranus 23941-12-02 08:38 G 10465665.72 10465665.86 10465666.01 0.0133 0.0068

Saturn 23941-12-02 12:57 G 10465665.88 10465666.04 10465666.20 0.0290 0.0058 *

Neptune 23942-02-27 12:14 G 10465752.85 10465753.01 10465753.18 0.0089 0.0023

Uranus 23942-02-28 13:40 G 10465753.92 10465754.07 10465754.23 0.0133 0.0048

Saturn 23942-03-01 07:12 G 10465754.69 10465754.80 10465754.93 0.0290 0.0194

Neptune 23942-05-26 14:52 G 10465840.96 10465841.12 10465841.28 0.0089 0.0031

Uranus 23942-05-27 18:43 G 10465842.12 10465842.28 10465842.44 0.0133 0.0028

Neptune 23942-08-22 17:16 G 10465929.08 10465929.22 10465929.38 0.0089 0.0040

Uranus 23942-08-23 23:45 G 10465930.32 10465930.49 10465930.65 0.0133 0.0009

Neptune 23942-11-18 19:40 G 10466017.20 10466017.32 10466017.48 0.0089 0.0050

Uranus 23942-11-20 04:33 G 10466018.53 10466018.69 10466018.86 0.0133 0.0011

Neptune 23943-02-14 22:33 G 10466105.32 10466105.44 10466105.57 0.0089 0.0058

Uranus 23943-02-16 09:21 G 10466106.74 10466106.89 10466107.05 0.0133 0.0031

Neptune 23943-05-14 00:57 G 10466193.44 10466193.54 10466193.66 0.0089 0.0066

Uranus 23943-05-15 14:09 G 10466194.94 10466195.09 10466195.25 0.0133 0.0050

Neptune 23943-08-10 03:21 G 10466281.57 10466281.64 10466281.74 0.0089 0.0075

Uranus 23943-08-11 18:57 G 10466283.16 10466283.29 10466283.43 0.0133 0.0069

Neptune 23943-11-06 06:00 G 10466369.70 10466369.75 10466369.82 0.0089 0.0083

Uranus 23943-11-07 23:45 G 10466371.37 10466371.49 10466371.61 0.0133 0.0088

Jupiter 23944-01-29 22:48 G 10466454.34 10466454.45 10466454.55 0.0520 0.0398

Uranus 23944-02-04 04:19 G 10466459.59 10466459.68 10466459.78 0.0133 0.0107

Jupiter 23944-04-29 00:00 G 10466544.39 10466544.50 10466544.62 0.0523 0.0366

Uranus 23944-05-02 08:52 G 10466547.83 10466547.87 10466547.93 0.0133 0.0126

Pluto 23949-03-16 11:02 G 10468326.92 10468326.96 10468327.03 0.0070 0.0063

Pluto 23949-06-12 12:00 G 10468414.91 10468415.00 10468415.08 0.0070 0.0053

Pluto 23949-09-08 12:14 G 10468502.92 10468503.01 10468503.12 0.0070 0.0044

Jupiter 23949-09-17 12:43 G 10468511.90 10468512.03 10468512.17 0.0507 0.0064

Pluto 23949-12-05 12:57 G 10468590.93 10468591.04 10468591.16 0.0070 0.0035

Mars 23950-02-12 04:33 G 10468659.56 10468659.69 10468659.83 0.1887 0.0396

Pluto 23950-03-03 13:26 G 10468678.95 10468679.06 10468679.19 0.0070 0.0025

Pluto 23950-05-30 14:09 G 10468766.97 10468767.09 10468767.22 0.0070 0.0016

Pluto 23950-08-26 14:52 G 10468854.99 10468855.12 10468855.25 0.0070 0.0006

Pluto 23950-11-22 15:21 G 10468943.01 10468943.14 10468943.27 0.0071 0.0004

Pluto 23951-02-18 16:04 G 10469031.04 10469031.17 10469031.30 0.0071 0.0014

Pluto 23951-05-17 16:33 G 10469119.07 10469119.19 10469119.32 0.0071 0.0023

Moon 23951-07-19 12:14 G 10469181.91 10469182.01 10469182.11 0.2652 0.1854

Earth 23951-07-19 13:12 G 10469181.95 10469182.05 10469182.16 0.2656 0.1708 *

Pluto 23951-08-13 17:16 G 10469207.11 10469207.22 10469207.34 0.0071 0.0033

Pluto 23951-11-09 17:45 G 10469295.14 10469295.24 10469295.35 0.0071 0.0043

Pluto 23952-02-05 18:28 G 10469383.19 10469383.27 10469383.36 0.0071 0.0053

Pluto 23952-05-03 18:57 G 10469471.24 10469471.29 10469471.36 0.0071 0.0064

Mars 23952-11-09 00:14 G 10469660.45 10469660.51 10469660.57 0.1644 0.1457

Venus 23953-06-28 00:14 G 10469891.40 10469891.51 10469891.62 0.3692 0.1641

Moon 23954-01-17 15:50 G 10470095.07 10470095.16 10470095.25 0.2674 0.1598

Earth 23954-01-17 16:33 G 10470095.10 10470095.19 10470095.29 0.2676 0.1504 *

Venus 23955-01-08 19:26 G 10470451.25 10470451.31 10470451.36 0.3679 0.3223

Jupiter 23956-02-16 00:00 G 10470854.35 10470854.50 10470854.66 0.0523 0.0187

Saturn 23956-06-16 05:16 G 10470975.62 10470975.72 10470975.83 0.0269 0.0180

Saturn 23956-09-12 17:45 G 10471064.10 10471064.24 10471064.38 0.0269 0.0084

Saturn 23956-12-10 06:28 G 10471152.62 10471152.77 10471152.91 0.0270 0.0015

Saturn 23957-03-08 19:12 G 10471241.17 10471241.30 10471241.44 0.0270 0.0114

Saturn 23957-06-05 08:24 G 10471329.76 10471329.85 10471329.94 0.0270 0.0216

Venus 23959-01-11 21:07 G 10471915.26 10471915.38 10471915.51 0.3693 0.0376

Mars 23959-07-05 07:26 G 10472089.69 10472089.81 10472089.93 0.1879 0.0960

Venus 23960-07-24 15:21 G 10472475.03 10472475.14 10472475.25 0.3678 0.1432

Jupiter 23961-07-06 16:19 G 10472822.06 10472822.18 10472822.31 0.0507 0.0204

Jupiter 23961-10-04 01:26 G 10472911.47 10472911.56 10472911.66 0.0504 0.0377

Mars 23962-04-01 08:09 G 10473090.71 10473090.84 10473090.96 0.1650 0.0657

Moon 23964-07-21 13:26 G 10473932.92 10473933.06 10473933.20 0.2654 0.0321

Earth 23964-07-21 14:38 G 10473932.97 10473933.11 10473933.25 0.2656 0.0528 *

Venus 23964-07-27 17:45 G 10473939.15 10473939.24 10473939.34 0.3693 0.2265

Venus 23966-02-07 11:45 G 10474498.86 10474498.99 10474499.11 0.3678 0.0466

Moon 23967-01-20 11:16 G 10474845.85 10474845.97 10474846.09 0.2678 0.0102

Earth 23967-01-20 12:14 G 10474845.89 10474846.01 10474846.12 0.2676 0.0123 *

Jupiter 23967-12-04 23:31 G 10475164.31 10475164.48 10475164.64 0.0521 0.0008

Saturn 23970-10-25 21:21 G 10476220.34 10476220.39 10476220.45 0.0291 0.0274

Saturn 23971-01-22 17:16 G 10476309.07 10476309.22 10476309.37 0.0291 0.0129

Saturn 23971-04-21 12:28 G 10476397.86 10476398.02 10476398.18 0.0291 0.0013

Saturn 23971-07-19 07:12 G 10476486.66 10476486.80 10476486.94 0.0290 0.0151

Mars 23971-08-22 16:04 G 10476521.04 10476521.17 10476521.31 0.1655 0.0139

Venus 23971-08-24 08:24 G 10476522.76 10476522.85 10476522.94 0.3677 0.2405

Saturn 23971-10-16 01:26 G 10476575.53 10476575.56 10476575.59 0.0290 0.0284

Jupiter 23973-04-24 19:26 G 10477132.21 10477132.31 10477132.40 0.0509 0.0355

Jupiter 23973-07-23 04:19 G 10477221.55 10477221.68 10477221.80 0.0505 0.0225

Moon 23977-07-24 14:38 G 10478684.10 10478684.11 10478684.12 0.2660 0.2639

Jupiter 23979-09-22 22:33 G 10479474.29 10479474.44 10479474.60 0.0520 0.0191

Moon 23980-01-23 07:40 G 10479596.73 10479596.82 10479596.91 0.2682 0.1732

Earth 23980-01-23 07:55 G 10479596.74 10479596.83 10479596.92 0.2676 0.1694 *

Mars 23980-03-23 01:40 G 10479656.56 10479656.57 10479656.59 0.1894 0.1878

Mars 23981-01-12 00:14 G 10479951.40 10479951.51 10479951.62 0.1661 0.0929

Uranus 23983-06-08 05:02 G 10480828.67 10480828.71 10480828.75 0.0146 0.0138

Uranus 23983-09-04 09:36 G 10480916.82 10480916.90 10480917.00 0.0146 0.0116

Uranus 23983-12-01 14:24 G 10481004.99 10481005.10 10481005.22 0.0146 0.0093

Uranus 23984-02-27 19:12 G 10481093.18 10481093.30 10481093.44 0.0146 0.0070

Uranus 23984-05-26 00:14 G 10481181.37 10481181.51 10481181.65 0.0146 0.0046

Uranus 23984-08-22 05:02 G 10481269.57 10481269.71 10481269.86 0.0146 0.0023

Uranus 23984-11-18 10:04 G 10481357.77 10481357.92 10481358.07 0.0146 0.0001

Jupiter 23985-02-10 23:02 G 10481442.43 10481442.46 10481442.49 0.0510 0.0494

Uranus 23985-02-14 15:07 G 10481445.98 10481446.13 10481446.28 0.0146 0.0025

Jupiter 23985-05-11 07:55 G 10481531.69 10481531.83 10481531.96 0.0506 0.0085

Uranus 23985-05-13 20:09 G 10481534.20 10481534.34 10481534.48 0.0146 0.0049

Uranus 23985-08-10 01:12 G 10481622.42 10481622.55 10481622.68 0.0146 0.0073

Saturn 23985-11-03 08:09 G 10481707.75 10481707.84 10481707.94 0.0269 0.0201

Uranus 23985-11-06 06:00 G 10481710.65 10481710.75 10481710.88 0.0146 0.0098

Saturn 23986-01-30 20:24 G 10481796.22 10481796.35 10481796.49 0.0269 0.0107

Uranus 23986-02-02 11:16 G 10481798.90 10481798.97 10481799.06 0.0146 0.0122

Saturn 23986-04-29 09:07 G 10481884.73 10481884.88 10481885.02 0.0269 0.0010

Saturn 23986-07-26 21:50 G 10481973.27 10481973.41 10481973.55 0.0269 0.0090

Saturn 23986-10-23 11:02 G 10482061.85 10482061.96 10482062.06 0.0270 0.0191

Mars 23989-08-13 04:48 G 10483086.57 10483086.70 10483086.83 0.1887 0.0540

Jupiter 23991-07-11 21:21 G 10483784.28 10483784.39 10483784.50 0.0519 0.0388

Jupiter 23991-10-09 22:33 G 10483874.33 10483874.44 10483874.56 0.0523 0.0373

Mars 23992-05-10 00:14 G 10484087.48 10484087.51 10484087.55 0.1645 0.1572

Jupiter 23997-02-27 11:31 G 10485841.85 10485841.98 10485842.12 0.0507 0.0056

Moon 23997-07-19 18:00 G 10485984.13 10485984.25 10485984.37 0.2652 0.1346

Earth 23997-07-19 19:12 G 10485984.17 10485984.30 10485984.42 0.2656 0.1251 *

Mars 23999-01-03 07:40 G 10486516.70 10486516.82 10486516.95 0.1879 0.0810

Moon 24000-01-18 20:52 G 10486897.26 10486897.37 10486897.47 0.2675 0.1286

Earth 24000-01-18 21:36 G 10486897.30 10486897.40 10486897.51 0.2676 0.1181 *

Saturn 24000-06-10 15:50 G 10487041.03 10487041.16 10487041.29 0.0291 0.0179

Saturn 24000-09-07 11:16 G 10487129.81 10487129.97 10487130.14 0.0290 0.0036

Saturn 24000-12-05 06:14 G 10487218.61 10487218.76 10487218.91 0.0290 0.0103

25TH MILLENNIUM CE

This is a list of transits of Mercury in the 25th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	24001-03-04 00:28	G	10487307.44	10487307.52	10487307.61	0.0290	0.0238	
Mars	24001-09-30 08:24	G	10487517.73	10487517.85	10487517.97	0.1650	0.0780	
Jupiter	24003-07-28 22:33	G	10488184.28	10488184.44	10488184.59	0.0522	0.0192	
Venus	24004-07-19 02:09	G	10488540.52	10488540.59	10488540.65	0.3691	0.3039	
Jupiter	24008-12-16 15:21	G	10490152.01	10490152.14	10490152.26	0.0508	0.0193	
Jupiter	24009-03-16 00:28	G	10490241.43	10490241.52	10490241.61	0.0504	0.0388	
Venus	24010-02-01 23:16	G	10490564.35	10490564.47	10490564.59	0.3692	0.0979	
Moon	24010-07-22 19:12	G	10490735.17	10490735.30	10490735.44	0.2656	0.0834	
Earth	24010-07-22 20:24	G	10490735.22	10490735.35	10490735.48	0.2656	0.0976	*
Mars	24011-02-20 16:19	G	10490948.05	10490948.18	10490948.31	0.1655	0.0019	
Venus	24011-08-15 18:00	G	10491124.17	10491124.25	10491124.33	0.3679	0.2640	
Moon	24013-01-20 16:33	G	10491648.07	10491648.19	10491648.30	0.2679	0.0352	
Earth	24013-01-20 17:16	G	10491648.10	10491648.22	10491648.33	0.2676	0.0412	*
Saturn	24015-03-23 08:52	G	10492439.81	10492439.87	10492439.93	0.0269	0.0240	
Jupiter	24015-05-16 22:19	G	10492494.27	10492494.43	10492494.59	0.0522	0.0012	
Saturn	24015-06-19 20:52	G	10492528.25	10492528.37	10492528.49	0.0269	0.0147	
Venus	24015-08-18 20:09	G	10492588.22	10492588.34	10492588.45	0.3693	0.1006	
Saturn	24015-09-16 09:21	G	10492616.75	10492616.89	10492617.03	0.0269	0.0051	
Saturn	24015-12-13 22:04	G	10492705.27	10492705.42	10492705.56	0.0269	0.0048	
Saturn	24016-03-11 11:02	G	10492793.83	10492793.96	10492794.08	0.0270	0.0148	
Saturn	24016-06-08 00:14	G	10492882.46	10492882.51	10492882.56	0.0270	0.0250	
Venus	24017-02-28 14:09	G	10493147.97	10493148.09	10493148.20	0.3678	0.0832	
Neptune	24020-04-12 03:07	G	10494286.60	10494286.63	10494286.69	0.0088	0.0083	
Neptune	24020-07-09 04:48	G	10494374.64	10494374.70	10494374.79	0.0088	0.0076	
Mars	24020-07-13 00:28	G	10494378.40	10494378.52	10494378.64	0.1661	0.0812	

Jupiter 24020-10-04 18:57 G 10494462.19 10494462.29 10494462.39 0.0508 0.0334

Neptune 24020-10-05 06:43 G 10494462.69 10494462.78 10494462.87 0.0088 0.0069

Neptune 24021-01-01 08:24 G 10494550.75 10494550.85 10494550.95 0.0088 0.0061

Jupiter 24021-01-02 03:50 G 10494551.54 10494551.66 10494551.78 0.0505 0.0245

Venus 24021-03-03 16:33 G 10494612.12 10494612.19 10494612.26 0.3693 0.2882

Neptune 24021-03-30 09:50 G 10494638.81 10494638.91 10494639.04 0.0088 0.0055

Neptune 24021-06-26 11:31 G 10494726.87 10494726.98 10494727.11 0.0088 0.0047

Neptune 24021-09-22 13:12 G 10494814.93 10494815.05 10494815.19 0.0088 0.0040

Neptune 24021-12-19 15:07 G 10494903.00 10494903.13 10494903.27 0.0088 0.0032

Neptune 24022-03-17 16:48 G 10494991.06 10494991.20 10494991.34 0.0088 0.0025

Neptune 24022-06-13 18:28 G 10495079.13 10495079.27 10495079.42 0.0088 0.0018

Neptune 24022-09-09 20:09 G 10495167.20 10495167.34 10495167.49 0.0088 0.0011

Venus 24022-09-14 10:33 G 10495171.82 10495171.94 10495172.05 0.3678 0.1089

Neptune 24022-12-06 22:04 G 10495255.27 10495255.42 10495255.56 0.0088 0.0003

Neptune 24023-03-04 23:45 G 10495343.34 10495343.49 10495343.64 0.0088 0.0004

Neptune 24023-06-01 01:26 G 10495431.42 10495431.56 10495431.71 0.0088 0.0012

Neptune 24023-08-28 03:07 G 10495519.49 10495519.63 10495519.78 0.0088 0.0019

Neptune 24023-11-24 04:48 G 10495607.57 10495607.70 10495607.85 0.0088 0.0027

Neptune 24024-02-20 06:43 G 10495695.65 10495695.78 10495695.92 0.0088 0.0034

Neptune 24024-05-18 08:09 G 10495783.72 10495783.84 10495783.99 0.0088 0.0042

Neptune 24024-08-14 10:04 G 10495871.81 10495871.92 10495872.05 0.0088 0.0049

Neptune 24024-11-10 11:45 G 10495959.89 10495959.99 10495960.12 0.0088 0.0057

Neptune 24025-02-06 13:40 G 10496047.98 10496048.07 10496048.18 0.0088 0.0064

Uranus 24025-04-02 01:26 G 10496102.50 10496102.56 10496102.64 0.0133 0.0120

Neptune 24025-05-05 15:21 G 10496136.07 10496136.14 10496136.24 0.0088 0.0072

Uranus 24025-06-29 06:28 G 10496190.67 10496190.77 10496190.89 0.0133 0.0100

Neptune 24025-08-01 17:16 G 10496224.17 10496224.22 10496224.29 0.0088 0.0079

Uranus 24025-09-25 11:31 G 10496278.86 10496278.98 10496279.13 0.0133 0.0080

Neptune 24025-10-28 18:57 G 10496312.28 10496312.29 10496312.33 0.0088 0.0087

Uranus 24025-12-22 17:02 G 10496367.06 10496367.21 10496367.36 0.0133 0.0059

Moon 24026-01-23 12:57 G 10496398.96 10496399.04 10496399.12 0.2683 0.1968

Earth 24026-01-23 12:57 G 10496398.97 10496399.04 10496399.12 0.2676 0.2037 *

Uranus 24026-03-20 21:50 G 10496455.26 10496455.41 10496455.57 0.0133 0.0039

Uranus 24026-06-17 02:52 G 10496543.46 10496543.62 10496543.79 0.0133 0.0019

Uranus 24026-09-13 07:55 G 10496631.66 10496631.83 10496631.99 0.0133 0.0001

Uranus 24026-12-10 12:43 G 10496719.87 10496720.03 10496720.19 0.0133 0.0020

Jupiter 24027-03-04 21:50 G 10496804.25 10496804.41 10496804.56 0.0520 0.0174

Uranus 24027-03-08 17:31 G 10496808.08 10496808.23 10496808.39 0.0133 0.0040

Uranus 24027-06-04 22:19 G 10496896.29 10496896.43 10496896.58 0.0133 0.0059

Uranus 24027-09-01 03:07 G 10496984.51 10496984.63 10496984.77 0.0133 0.0078

Uranus 24027-11-28 07:55 G 10497072.72 10497072.83 10497072.94 0.0133 0.0097

Uranus 24028-02-24 12:28 G 10497160.95 10497161.02 10497161.11 0.0133 0.0116

Venus 24028-03-30 07:12 G 10497195.74 10497195.80 10497195.87 0.3677 0.3074

Mars 24029-02-11 05:16 G 10497513.59 10497513.72 10497513.84 0.1887 0.0697

Saturn 24029-10-28 14:24 G 10497773.00 10497773.10 10497773.20 0.0291 0.0231

Mars 24029-12-03 08:38 G 10497808.83 10497808.86 10497808.90 0.1667 0.1600

Saturn 24030-01-25 10:04 G 10497861.76 10497861.92 10497862.08 0.0291 0.0086

Saturn 24030-04-24 05:16 G 10497950.56 10497950.72 10497950.88 0.0291 0.0055

Saturn 24030-07-21 23:45 G 10498039.38 10498039.49 10498039.61 0.0290 0.0192

Jupiter 24032-07-23 21:50 G 10498772.37 10498772.41 10498772.45 0.0510 0.0486

Jupiter 24032-10-21 06:28 G 10498861.64 10498861.77 10498861.91 0.0506 0.0093

Moon 24033-01-16 06:43 G 10498948.73 10498948.78 10498948.83 0.2671 0.2426

Earth 24033-01-16 07:12 G 10498948.76 10498948.80 10498948.85 0.2675 0.2412 *

Pluto 24035-01-28 08:24 G 10499690.83 10499690.85 10499690.92 0.0074 0.0072

Pluto 24035-04-26 11:16 G 10499778.85 10499778.97 10499779.12 0.0074 0.0055

Pluto 24035-07-23 14:09 G 10499866.92 10499867.09 10499867.26 0.0073 0.0038

Pluto 24035-10-19 16:33 G 10499955.01 10499955.19 10499955.39 0.0073 0.0022

Pluto 24036-01-15 19:12 G 10500043.10 10500043.30 10500043.50 0.0073 0.0005

Pluto 24036-04-12 21:50 G 10500131.21 10500131.41 10500131.60 0.0073 0.0011

Pluto 24036-07-10 00:00 G 10500219.33 10500219.50 10500219.69 0.0073 0.0028

Pluto 24036-10-06 02:24 G 10500307.46 10500307.60 10500307.77 0.0073 0.0044

Pluto 24037-01-02 04:48 G 10500395.61 10500395.70 10500395.83 0.0073 0.0060

Mars 24038-07-04 08:09 G 10500943.71 10500943.84 10500943.97 0.1879 0.0648

Jupiter 24038-12-21 20:52 G 10501114.25 10501114.37 10501114.49 0.0519 0.0363

Jupiter 24039-03-21 22:04 G 10501204.32 10501204.42 10501204.53 0.0523 0.0397

Mars 24041-03-31 08:24 G 10501944.74 10501944.85 10501944.96 0.1650 0.0891

Moon 24043-07-21 00:00 G 10502786.37 10502786.50 10502786.63 0.2652 0.0985

Earth 24043-07-21 01:12 G 10502786.41 10502786.55 10502786.68 0.2656 0.0787 *

Jupiter 24044-08-09 10:04 G 10503171.78 10503171.92 10503172.06 0.0507 0.0051

Saturn 24044-08-09 11:31 G 10503171.96 10503171.98 10503172.02 0.0268 0.0262 *

Saturn 24044-11-05 23:45 G 10503260.38 10503260.49 10503260.60 0.0268 0.0169

Saturn 24045-02-02 12:00 G 10503348.87 10503349.00 10503349.14 0.0269 0.0074

Saturn 24045-05-02 00:43 G 10503437.38 10503437.53 10503437.67 0.0269 0.0024

Saturn 24045-07-29 13:26 G 10503525.93 10503526.06 10503526.19 0.0269 0.0124

Saturn 24045-10-26 02:38 G 10503614.53 10503614.61 10503614.69 0.0269 0.0225

Moon 24046-01-19 01:55 G 10503699.47 10503699.58 10503699.68 0.2675 0.1012

Earth 24046-01-19 02:38 G 10503699.50 10503699.61 10503699.72 0.2675 0.0857 *

Mars 24050-08-21 16:33 G 10505375.05 10505375.19 10505375.32 0.1655 0.0101

Jupiter 24051-01-07 21:07 G 10505514.23 10505514.38 10505514.53 0.0522 0.0203

Jupiter 24056-05-28 13:55 G 10507481.95 10507482.08 10507482.21 0.0508 0.0187

Moon 24056-07-23 01:12 G 10507537.42 10507537.55 10507537.67 0.2658 0.1290

Earth 24056-07-23 02:24 G 10507537.48 10507537.60 10507537.71 0.2656 0.1416 *

Jupiter 24056-08-25 23:02 G 10507571.38 10507571.46 10507571.55 0.0505 0.0396

Moon 24059-01-21 21:36 G 10508450.29 10508450.40 10508450.52 0.2680 0.0658

Earth 24059-01-21 22:19 G 10508450.31 10508450.43 10508450.54 0.2675 0.0739 *

Saturn 24059-03-17 13:12 G 10508505.01 10508505.05 10508505.10 0.0291 0.0279

Saturn 24059-06-14 09:07 G 10508593.74 10508593.88 10508594.03 0.0291 0.0133

Saturn 24059-09-11 04:33 G 10508682.52 10508682.69 10508682.85 0.0290 0.0010

Saturn 24059-12-08 23:16 G 10508771.33 10508771.47 10508771.61 0.0290 0.0147

Mars 24060-01-12 00:43 G 10508805.41 10508805.53 10508805.65 0.1661 0.0693

Saturn 24060-03-06 17:31 G 10508860.20 10508860.23 10508860.27 0.0290 0.0281

Venus 24061-02-23 01:12 G 10509213.45 10509213.55 10509213.64 0.3692 0.2360

Jupiter 24062-10-26 20:52 G 10509824.20 10509824.37 10509824.53 0.0521 0.0022

Venus 24066-09-08 22:04 G 10511237.30 10511237.42 10511237.55 0.3692 0.0333

Uranus 24067-06-28 12:57 G 10511529.98 10511530.04 10511530.10 0.0146 0.0130

Uranus 24067-09-24 17:45 G 10511618.14 10511618.24 10511618.34 0.0146 0.0107

Uranus 24067-12-21 22:19 G 10511706.32 10511706.43 10511706.56 0.0146 0.0084

Jupiter 24068-03-16 17:45 G 10511792.14 10511792.24 10511792.35 0.0509 0.0324

Uranus 24068-03-19 03:21 G 10511794.50 10511794.64 10511794.77 0.0146 0.0061

Venus 24068-03-21 16:33 G 10511797.09 10511797.19 10511797.29 0.3679 0.2050

Jupiter 24068-06-14 02:38 G 10511881.49 10511881.61 10511881.73 0.0505 0.0255

Uranus 24068-06-15 08:09 G 10511882.70 10511882.84 10511882.98 0.0146 0.0038

Mars 24068-08-12 05:45 G 10511940.61 10511940.74 10511940.86 0.1887 0.0862

Uranus 24068-09-11 12:57 G 10511970.90 10511971.04 10511971.19 0.0146 0.0015

Uranus 24068-12-08 18:00 G 10512059.10 10512059.25 10512059.40 0.0146 0.0010

Uranus 24069-03-06 23:02 G 10512147.31 10512147.46 10512147.61 0.0146 0.0033

Uranus 24069-06-03 04:04 G 10512235.53 10512235.67 10512235.81 0.0146 0.0057

Mars 24069-06-03 08:52 G 10512235.81 10512235.87 10512235.93 0.1667 0.1484 *

Uranus 24069-08-30 09:07 G 10512323.76 10512323.88 10512324.01 0.0146 0.0082

Uranus 24069-11-26 13:55 G 10512411.99 10512412.08 10512412.20 0.0146 0.0107

Uranus 24070-02-22 19:12 G 10512500.25 10512500.30 10512500.38 0.0146 0.0131

Moon 24072-01-24 18:00 G 10513201.20 10513201.25 10513201.30 0.2683 0.2416

Earth 24072-01-24 18:00 G 10513201.20 10513201.25 10513201.31 0.2676 0.2375 *

Venus 24072-03-24 18:57 G 10513261.18 10513261.29 10513261.40 0.3693 0.1635

Venus 24073-10-05 12:43 G 10513820.91 10513821.03 10513821.15 0.3678 0.0224

Saturn 24074-03-26 00:14 G 10513992.42 10513992.51 10513992.60 0.0269 0.0208

Saturn 24074-06-22 12:28 G 10514080.89 10514081.02 10514081.15 0.0269 0.0114

Jupiter 24074-08-14 20:24 G 10514134.20 10514134.35 10514134.51 0.0521 0.0163

Saturn 24074-09-19 00:57 G 10514169.40 10514169.54 10514169.69 0.0269 0.0017

Saturn 24074-12-16 13:40 G 10514257.93 10514258.07 10514258.21 0.0269 0.0081

Saturn 24075-03-15 02:38 G 10514346.50 10514346.61 10514346.72 0.0270 0.0182

Earth 24076-07-18 05:16 G 10514837.70 10514837.72 10514837.75 0.2656 0.2612

Venus 24077-10-08 15:07 G 10515285.10 10515285.13 10515285.17 0.3693 0.3494

Mars 24078-01-02 08:38 G 10515370.72 10515370.86 10515370.99 0.1879 0.0498

Moon 24079-01-17 11:31 G 10515750.92 10515750.98 10515751.05 0.2672 0.2247

Earth 24079-01-17 12:14 G 10515750.94 10515751.01 10515751.08 0.2675 0.2091 *

Venus 24079-04-21 09:21 G 10515844.78 10515844.89 10515845.00 0.3678 0.1731

Jupiter 24080-01-03 21:21 G 10516102.34 10516102.39 10516102.45 0.0509 0.0464

Jupiter 24080-04-02 06:14 G 10516191.62 10516191.76 10516191.89 0.0506 0.0114

Mars 24080-09-29 08:38 G 10516371.75 10516371.86 10516371.97 0.1649 0.1010

Jupiter 24086-06-02 19:55 G 10518444.21 10518444.33 10518444.46 0.0519 0.0347

Jupiter 24086-08-31 21:21 G 10518534.29 10518534.39 10518534.48 0.0523 0.0414

Mars 24087-05-25 11:16 G 10518800.96 10518800.97 10518800.98 0.1872 0.1857

Saturn 24088-10-31 07:12 G 10519325.68 10519325.80 10519325.93 0.0291 0.0189

Saturn 24089-01-28 02:52 G 10519414.45 10519414.62 10519414.78 0.0291 0.0045

Saturn 24089-04-26 21:50 G 10519503.26 10519503.41 10519503.56 0.0291 0.0096

Moon 24089-07-21 05:45 G 10519588.61 10519588.74 10519588.89 0.2653 0.0412

Earth 24089-07-21 06:57 G 10519588.65 10519588.79 10519588.93 0.2656 0.0335 *

Saturn 24089-07-24 16:19 G 10519592.09 10519592.18 10519592.28 0.0290 0.0232

Mars 24090-02-19 16:33 G 10519802.06 10519802.19 10519802.33 0.1655 0.0217

Moon 24092-01-20 06:57 G 10520501.67 10520501.79 10520501.90 0.2676 0.0617

Earth 24092-01-20 07:40 G 10520501.71 10520501.82 10520501.94 0.2675 0.0533 *

Jupiter 24092-01-20 08:52 G 10520501.73 10520501.87 10520502.01 0.0507 0.0042 *

Jupiter 24098-06-19 20:52 G 10522844.22 10522844.37 10522844.51 0.0522 0.0229

Mars 24099-07-13 00:43 G 10523232.41 10523232.53 10523232.66 0.1661 0.0584

Moon 24102-07-25 06:57 G 10524339.68 10524339.79 10524339.90 0.2659 0.1668

Earth 24102-07-25 08:09 G 10524339.74 10524339.84 10524339.94 0.2656 0.1864 *

Saturn 24103-08-14 03:07 G 10524724.56 10524724.63 10524724.71 0.0268 0.0229

Jupiter 24103-11-09 12:28 G 10524811.89 10524812.02 10524812.15 0.0508 0.0184

Saturn 24103-11-10 15:21 G 10524813.02 10524813.14 10524813.26 0.0268 0.0135

Neptune 24104-01-03 01:12 G 10524866.52 10524866.55 10524866.62 0.0089 0.0086

Jupiter 24104-02-06 21:36 G 10524901.32 10524901.40 10524901.49 0.0505 0.0400

Saturn 24104-02-07 03:50 G 10524901.51 10524901.66 10524901.80 0.0269 0.0040

Neptune 24104-03-31 04:04 G 10524954.60 10524954.67 10524954.78 0.0089 0.0076

Saturn 24104-05-05 16:19 G 10524990.04 10524990.18 10524990.33 0.0269 0.0059

Neptune 24104-06-27 06:43 G 10525042.69 10525042.78 10525042.91 0.0089 0.0068

Saturn 24104-08-02 05:16 G 10525078.60 10525078.72 10525078.84 0.0269 0.0159

Neptune 24104-09-23 09:50 G 10525130.78 10525130.91 10525131.05 0.0089 0.0058

Saturn 24104-10-29 18:28 G 10525167.24 10525167.27 10525167.31 0.0269 0.0261

Neptune 24104-12-20 12:43 G 10525218.88 10525219.03 10525219.17 0.0089 0.0049

Moon 24105-01-23 02:52 G 10525252.51 10525252.62 10525252.73 0.2681 0.0991

Earth 24105-01-23 03:21 G 10525252.53 10525252.64 10525252.75 0.2675 0.1071 *

Neptune 24105-03-18 15:21 G 10525306.99 10525307.14 10525307.29 0.0089 0.0040

Neptune 24105-06-14 18:00 G 10525395.09 10525395.25 10525395.41 0.0089 0.0031

Neptune 24105-09-10 20:38 G 10525483.20 10525483.36 10525483.53 0.0089 0.0022

Neptune 24105-12-07 23:16 G 10525571.31 10525571.47 10525571.64 0.0089 0.0013

Neptune 24106-03-06 01:55 G 10525659.41 10525659.58 10525659.76 0.0089 0.0005

Neptune 24106-06-02 04:33 G 10525747.52 10525747.69 10525747.86 0.0089 0.0006

Neptune 24106-08-29 07:12 G 10525835.64 10525835.80 10525835.97 0.0089 0.0014

Neptune 24106-11-25 09:36 G 10525923.75 10525923.90 10525924.08 0.0089 0.0024

Neptune 24107-02-21 12:28 G 10526011.86 10526012.02 10526012.18 0.0089 0.0032

Neptune 24107-05-20 14:52 G 10526099.98 10526100.12 10526100.28 0.0089 0.0041

Neptune 24107-08-16 17:31 G 10526188.10 10526188.23 10526188.38 0.0089 0.0049

Neptune 24107-11-12 20:09 G 10526276.22 10526276.34 10526276.47 0.0089 0.0058

Neptune 24108-02-08 22:33 G 10526364.34 10526364.44 10526364.56 0.0089 0.0067

Mars 24108-02-12 05:45 G 10526367.63 10526367.74 10526367.86 0.1887 0.0995

Neptune 24108-05-07 00:57 G 10526452.47 10526452.54 10526452.65 0.0089 0.0075

Neptune 24108-08-03 03:36 G 10526540.61 10526540.65 10526540.72 0.0089 0.0084

Mars 24108-12-03 09:07 G 10526662.80 10526662.88 10526662.95 0.1667 0.1372

Uranus 24109-01-25 04:33 G 10526715.67 10526715.69 10526715.72 0.0133 0.0131

Uranus 24109-04-23 09:36 G 10526803.82 10526803.90 10526804.00 0.0133 0.0111

Uranus 24109-07-20 14:38 G 10526892.00 10526892.11 10526892.25 0.0133 0.0091

Uranus 24109-10-16 19:55 G 10526980.20 10526980.33 10526980.48 0.0133 0.0070

Uranus 24110-01-13 01:12 G 10527068.39 10527068.55 10527068.70 0.0133 0.0050

Jupiter 24110-04-08 19:40 G 10527154.15 10527154.32 10527154.48 0.0521 0.0032

Uranus 24110-04-11 06:14 G 10527156.60 10527156.76 10527156.92 0.0133 0.0030

Uranus 24110-07-08 11:02 G 10527244.80 10527244.96 10527245.13 0.0133 0.0011

Uranus 24110-10-04 16:04 G 10527333.01 10527333.17 10527333.33 0.0133 0.0010

Uranus 24110-12-31 20:52 G 10527421.21 10527421.37 10527421.53 0.0133 0.0029

Uranus 24111-03-30 01:40 G 10527509.42 10527509.57 10527509.73 0.0133 0.0049

Uranus 24111-06-26 06:28 G 10527597.64 10527597.77 10527597.92 0.0133 0.0068

Uranus 24111-09-22 11:16 G 10527685.86 10527685.97 10527686.10 0.0133 0.0087

Uranus 24111-12-19 16:04 G 10527774.08 10527774.17 10527774.27 0.0133 0.0106

Uranus 24112-03-16 20:38 G 10527862.32 10527862.36 10527862.42 0.0133 0.0125

Jupiter 24115-08-28 16:19 G 10529122.08 10529122.18 10529122.29 0.0509 0.0320

Jupiter 24115-11-26 01:12 G 10529211.44 10529211.55 10529211.68 0.0506 0.0262

Mars 24117-07-04 08:52 G 10529797.73 10529797.87 10529798.00 0.1880 0.0351

Venus 24117-10-01 00:00 G 10529886.39 10529886.50 10529886.61 0.3692 0.1685

Saturn 24118-03-21 06:28 G 10530057.68 10530057.77 10530057.87 0.0291 0.0234

Saturn 24118-06-18 02:09 G 10530146.44 10530146.59 10530146.75 0.0291 0.0089

Saturn 24118-09-14 21:21 G 10530235.23 10530235.39 10530235.55 0.0291 0.0052

Saturn 24118-12-12 16:04 G 10530324.05 10530324.17 10530324.29 0.0290 0.0189

Venus 24119-04-13 19:26 G 10530446.25 10530446.31 10530446.36 0.3679 0.3237

Mars 24120-03-31 08:52 G 10530798.77 10530798.87 10530798.97 0.1649 0.1132

Jupiter 24122-01-25 18:57 G 10531464.14 10531464.29 10531464.45 0.0520 0.0155

Moon 24122-07-20 10:33 G 10531639.86 10531639.94 10531640.02 0.2651 0.2160

Earth 24122-07-20 11:16 G 10531639.89 10531639.97 10531640.05 0.2656 0.2146 *

Venus 24123-04-16 21:07 G 10531910.25 10531910.38 10531910.50 0.3693 0.0352

Venus 24124-10-27 15:21 G 10532470.03 10532470.14 10532470.24 0.3679 0.1463

Moon 24125-01-18 16:33 G 10532553.10 10532553.19 10532553.27 0.2673 0.1804

Earth 24125-01-18 17:16 G 10532553.13 10532553.22 10532553.31 0.2675 0.1770 *

Mars 24126-11-24 11:45 G 10533227.93 10533227.99 10533228.05 0.1872 0.1690

Jupiter 24127-06-16 20:09 G 10533432.29 10533432.34 10533432.40 0.0510 0.0456

Jupiter 24127-09-14 05:02 G 10533521.57 10533521.71 10533521.84 0.0506 0.0122

Venus 24128-10-30 17:45 G 10533934.14 10533934.24 10533934.33 0.3693 0.2263

Mars 24129-08-21 16:48 G 10534229.07 10534229.20 10534229.34 0.1655 0.0336

Venus 24130-05-13 11:31 G 10534493.86 10534493.98 10534494.10 0.3678 0.0426

Saturn 24132-12-31 03:50 G 10535456.65 10535456.66 10535456.68 0.0268 0.0267

Saturn 24133-03-29 15:50 G 10535545.06 10535545.16 10535545.27 0.0268 0.0175

Saturn 24133-06-26 04:19 G 10535633.54 10535633.68 10535633.82 0.0269 0.0080

Saturn 24133-09-22 16:48 G 10535722.05 10535722.20 10535722.34 0.0269 0.0018

Jupiter 24133-11-13 18:28 G 10535774.15 10535774.27 10535774.40 0.0520 0.0339

Saturn 24133-12-20 05:31 G 10535810.60 10535810.73 10535810.86 0.0269 0.0117

Jupiter 24134-02-11 19:55 G 10535864.24 10535864.33 10535864.42 0.0523 0.0423

Saturn 24134-03-18 18:28 G 10535899.19 10535899.27 10535899.36 0.0269 0.0218

Moon 24135-07-23 11:45 G 10536390.84 10536390.99 10536391.13 0.2655 0.0151

Earth 24135-07-23 12:57 G 10536390.89 10536391.04 10536391.18 0.2656 0.0147 *

Venus 24135-11-27 08:09 G 10536517.74 10536517.84 10536517.93 0.3677 0.2375

Moon 24138-01-21 12:00 G 10537303.88 10537304.00 10537304.12 0.2677 0.0367

Earth 24138-01-21 12:43 G 10537303.91 10537304.03 10537304.15 0.2675 0.0210 *

Mars 24139-01-12 00:57 G 10537659.41 10537659.54 10537659.67 0.1661 0.0467

Jupiter 24139-07-03 08:24 G 10537831.72 10537831.85 10537831.99 0.0507 0.0027

Jupiter 24145-11-30 19:55 G 10540174.19 10540174.33 10540174.47 0.0522 0.0245

Mars 24147-08-13 06:14 G 10540794.65 10540794.76 10540794.87 0.1888 0.1156

Saturn 24147-11-05 00:00 G 10540878.36 10540878.50 10540878.65 0.0291 0.0145

Saturn 24148-02-01 19:26 G 10540967.15 10540967.31 10540967.48 0.0291 0.0007

Saturn 24148-04-30 14:24 G 10541055.96 10541056.10 10541056.25 0.0291 0.0138

Mars 24148-06-03 09:07 G 10541089.80 10541089.88 10541089.97 0.1666 0.1259

Moon 24148-07-25 12:43 G 10541141.96 10541142.03 10541142.11 0.2659 0.2211

Earth 24148-07-25 13:55 G 10541142.02 10541142.08 10541142.15 0.2656 0.2297 *

Saturn 24148-07-28 08:52 G 10541144.82 10541144.87 10541144.92 0.0291 0.0273

Moon 24151-01-24 07:55 G 10542054.73 10542054.83 10542054.93 0.2682 0.1383

Earth 24151-01-24 08:24 G 10542054.75 10542054.85 10542054.95 0.2675 0.1403 *

Jupiter 24151-04-21 11:16 G 10542141.84 10542141.97 10542142.10 0.0508 0.0176

Uranus 24151-04-22 15:50 G 10542143.16 10542143.16 10542143.19 0.0146 0.0145

Jupiter 24151-07-19 20:24 G 10542231.27 10542231.35 10542231.43 0.0505 0.0408

Uranus 24151-07-19 20:38 G 10542231.29 10542231.36 10542231.45 0.0146 0.0122 *

Uranus 24151-10-16 01:40 G 10542319.46 10542319.57 10542319.67 0.0146 0.0099

Uranus 24152-01-12 06:14 G 10542407.64 10542407.76 10542407.89 0.0146 0.0076

Uranus 24152-04-09 11:16 G 10542495.83 10542495.97 10542496.10 0.0146 0.0053

Uranus 24152-07-06 16:04 G 10542584.02 10542584.17 10542584.31 0.0146 0.0030

Uranus 24152-10-02 20:52 G 10542672.22 10542672.37 10542672.52 0.0146 0.0006

Uranus 24152-12-30 01:55 G 10542760.43 10542760.58 10542760.73 0.0146 0.0018

Uranus 24153-03-28 06:43 G 10542848.64 10542848.78 10542848.93 0.0146 0.0042

Uranus 24153-06-24 11:45 G 10542936.86 10542936.99 10542937.13 0.0146 0.0066

Uranus 24153-09-20 17:02 G 10543025.09 10543025.21 10543025.33 0.0146 0.0090

Uranus 24153-12-17 21:50 G 10543113.33 10543113.41 10543113.51 0.0146 0.0115

Uranus 24154-03-16 03:07 G 10543201.59 10543201.63 10543201.68 0.0146 0.0139

Mars 24157-01-02 09:21 G 10544224.75 10544224.89 10544225.03 0.1880 0.0187

Jupiter 24157-09-18 19:12 G 10544484.14 10544484.30 10544484.47 0.0521 0.0060

Mars 24159-09-30 09:07 G 10545225.79 10545225.88 10545225.96 0.1649 0.1249

Saturn 24162-08-16 18:57 G 10546277.19 10546277.29 10546277.39 0.0268 0.0195

Saturn 24162-11-13 06:57 G 10546365.66 10546365.79 10546365.93 0.0268 0.0102

Jupiter 24163-02-07 14:38 G 10546452.01 10546452.11 10546452.22 0.0509 0.0319

Saturn 24163-02-09 19:40 G 10546454.17 10546454.32 10546454.46 0.0268 0.0009

Jupiter 24163-05-07 23:45 G 10546541.37 10546541.49 10546541.61 0.0506 0.0263

Saturn 24163-05-09 08:09 G 10546542.71 10546542.84 10546542.98 0.0269 0.0095

Saturn 24163-08-05 21:07 G 10546631.29 10546631.38 10546631.49 0.0269 0.0195

Mars 24166-05-25 11:45 G 10547654.92 10547654.99 10547655.07 0.1872 0.1561

Moon 24168-07-20 16:19 G 10548442.08 10548442.18 10548442.28 0.2651 0.1862

Earth 24168-07-20 17:16 G 10548442.11 10548442.22 10548442.33 0.2656 0.1684 *

Venus 24168-10-22 01:40 G 10548535.51 10548535.57 10548535.64 0.3691 0.3097

Mars 24169-02-19 17:02 G 10548656.08 10548656.21 10548656.34 0.1655 0.0448

Jupiter 24169-07-07 17:45 G 10548794.09 10548794.24 10548794.40 0.0520 0.0143

Moon 24171-01-19 21:36 G 10549355.30 10549355.40 10549355.49 0.2673 0.1627

Earth 24171-01-19 22:19 G 10549355.33 10549355.43 10549355.53 0.2675 0.1448 *

Venus 24174-05-07 23:02 G 10550559.34 10550559.46 10550559.58 0.3692 0.1024

Jupiter 24174-11-26 18:43 G 10550762.22 10550762.28 10550762.34 0.0510 0.0454

Jupiter 24175-02-24 03:21 G 10550851.51 10550851.64 10550851.78 0.0507 0.0125

Venus 24175-11-18 18:00 G 10551119.17 10551119.25 10551119.33 0.3679 0.2667

Saturn 24177-03-24 00:00 G 10551610.37 10551610.50 10551610.63 0.0291 0.0187

Saturn 24177-06-20 19:26 G 10551699.15 10551699.31 10551699.48 0.0291 0.0043

Saturn 24177-09-17 14:38 G 10551787.95 10551788.11 10551788.26 0.0291 0.0098

Saturn 24177-12-15 09:07 G 10551876.79 10551876.88 10551876.97 0.0290 0.0234

Mars 24178-07-13 01:12 G 10552086.42 10552086.55 10552086.68 0.1660 0.0346

Venus 24179-11-21 19:55 G 10552583.21 10552583.33 10552583.45 0.3693 0.0978

Jupiter 24181-04-25 17:02 G 10553104.08 10553104.21 10553104.34 0.0519 0.0332

Venus 24181-06-03 13:55 G 10553142.97 10553143.08 10553143.20 0.3679 0.0845

Moon 24181-07-23 17:31 G 10553193.09 10553193.23 10553193.36 0.2657 0.0499

Earth 24181-07-23 18:43 G 10553193.14 10553193.28 10553193.42 0.2656 0.0568 *

Jupiter 24181-07-24 18:14 G 10553194.17 10553194.26 10553194.35 0.0523 0.0429

Moon 24184-01-22 17:02 G 10554106.10 10554106.21 10554106.33 0.2679 0.0121

Earth 24184-01-22 17:45 G 10554106.13 10554106.24 10554106.36 0.2675 0.0146 *

Neptune 24185-01-08 01:55 G 10554457.54 10554457.58 10554457.64 0.0088 0.0082

Neptune 24185-04-06 03:36 G 10554545.59 10554545.65 10554545.73 0.0088 0.0075

Venus 24185-06-06 16:19 G 10554607.11 10554607.18 10554607.25 0.3693 0.2870

Neptune 24185-07-03 05:02 G 10554633.64 10554633.71 10554633.82 0.0088 0.0069

Neptune 24185-09-29 07:12 G 10554721.69 10554721.80 10554721.90 0.0088 0.0061

Neptune 24185-12-26 08:38 G 10554809.75 10554809.86 10554809.98 0.0088 0.0054

Neptune 24186-03-24 10:19 G 10554897.81 10554897.93 10554898.06 0.0088 0.0046

Neptune 24186-06-20 12:00 G 10554985.88 10554986.00 10554986.14 0.0088 0.0039

Neptune 24186-09-16 13:40 G 10555073.94 10555074.07 10555074.21 0.0088 0.0032

Jupiter 24186-12-13 07:12 G 10555161.66 10555161.80 10555161.94 0.0507 0.0015

Neptune 24186-12-13 15:36 G 10555162.01 10555162.15 10555162.29 0.0088 0.0024

Venus 24186-12-18 10:19 G 10555166.81 10555166.93 10555167.04 0.3678 0.1054

Mars 24187-02-11 06:43 G 10555221.68 10555221.78 10555221.87 0.1888 0.1317

Neptune 24187-03-11 17:16 G 10555250.08 10555250.22 10555250.36 0.0088 0.0017

Neptune 24187-06-07 18:57 G 10555338.14 10555338.29 10555338.44 0.0088 0.0010

Neptune 24187-09-03 20:38 G 10555426.21 10555426.36 10555426.51 0.0088 0.0002

Neptune 24187-11-30 22:19 G 10555514.29 10555514.43 10555514.58 0.0088 0.0006

Mars 24187-12-03 09:21 G 10555516.79 10555516.89 10555516.98 0.1666 0.1147

Neptune 24188-02-27 00:00 G 10555602.36 10555602.50 10555602.65 0.0088 0.0013

Neptune 24188-05-25 01:40 G 10555690.44 10555690.57 10555690.72 0.0088 0.0021

Neptune 24188-08-21 03:36 G 10555778.51 10555778.65 10555778.79 0.0088 0.0027

Neptune 24188-11-17 05:16 G 10555866.59 10555866.72 10555866.86 0.0088 0.0035

Neptune 24189-02-13 07:12 G 10555954.67 10555954.80 10555954.93 0.0088 0.0042

Neptune 24189-05-12 08:38 G 10556042.75 10556042.86 10556042.99 0.0088 0.0050

Neptune 24189-08-08 10:33 G 10556130.84 10556130.94 10556131.06 0.0088 0.0057

Neptune 24189-11-04 12:14 G 10556218.92 10556219.01 10556219.12 0.0088 0.0065

Neptune 24190-01-31 14:24 G 10556307.01 10556307.10 10556307.18 0.0088 0.0072

Neptune 24190-04-29 15:50 G 10556395.11 10556395.16 10556395.23 0.0088 0.0080

Neptune 24190-07-26 17:45 G 10556483.24 10556483.24 10556483.26 0.0088 0.0088

Saturn 24192-01-03 19:55 G 10557009.26 10557009.33 10557009.40 0.0268 0.0232

Saturn 24192-04-01 07:55 G 10557097.71 10557097.83 10557097.95 0.0268 0.0138

Saturn 24192-06-28 20:09 G 10557186.20 10557186.34 10557186.49 0.0269 0.0043

Venus 24192-07-03 06:57 G 10557190.72 10557190.79 10557190.86 0.3677 0.3042

Saturn 24192-09-25 08:52 G 10557274.73 10557274.87 10557275.01 0.0269 0.0055

Saturn 24192-12-22 21:36 G 10557363.28 10557363.40 10557363.52 0.0269 0.0155

Jupiter 24193-02-11 16:19 G 10557414.18 10557414.18 10557414.18 0.0518 0.0518

Uranus 24193-02-14 12:43 G 10557416.97 10557417.03 10557417.10 0.0133 0.0122

Saturn 24193-03-21 10:33 G 10557451.91 10557451.94 10557451.99 0.0269 0.0258

Jupiter 24193-05-12 18:14 G 10557504.12 10557504.26 10557504.40 0.0522 0.0249

Uranus 24193-05-13 17:45 G 10557505.15 10557505.24 10557505.36 0.0133 0.0102

Uranus 24193-08-09 23:02 G 10557593.34 10557593.46 10557593.60 0.0133 0.0081

Uranus 24193-11-06 04:04 G 10557681.53 10557681.67 10557681.83 0.0133 0.0061

Uranus 24194-02-02 09:21 G 10557769.73 10557769.89 10557770.05 0.0133 0.0041

Uranus 24194-05-01 14:24 G 10557857.94 10557858.10 10557858.26 0.0133 0.0021

Moon 24194-07-26 18:43 G 10557944.24 10557944.28 10557944.32 0.2659 0.2537

Uranus 24194-07-28 19:26 G 10557946.14 10557946.31 10557946.47 0.0133 0.0002

Uranus 24194-10-25 00:14 G 10558034.35 10558034.51 10558034.68 0.0133 0.0019

Uranus 24195-01-21 05:02 G 10558122.56 10558122.71 10558122.87 0.0133 0.0039

Uranus 24195-04-19 09:50 G 10558210.77 10558210.91 10558211.07 0.0133 0.0058

Uranus 24195-07-16 14:38 G 10558298.99 10558299.11 10558299.25 0.0133 0.0077

Uranus 24195-10-12 19:26 G 10558387.21 10558387.31 10558387.43 0.0133 0.0096

Uranus 24196-01-09 00:14 G 10558475.44 10558475.51 10558475.60 0.0133 0.0115

Mars 24196-07-03 09:36 G 10558651.76 10558651.90 10558652.04 0.1880 0.0053

Moon 24197-01-24 13:12 G 10558856.96 10558857.05 10558857.14 0.2681 0.1650

Earth 24197-01-24 13:26 G 10558856.97 10558857.06 10558857.15 0.2675 0.1742 *

Pluto 24197-07-09 18:00 G 10559023.25 10559023.25 10559023.25 0.0070 0.0070

Pluto 24197-10-05 18:14 G 10559111.21 10559111.26 10559111.34 0.0070 0.0061

Pluto 24198-01-01 19:12 G 10559199.21 10559199.30 10559199.39 0.0070 0.0051

Pluto 24198-03-30 19:40 G 10559287.22 10559287.32 10559287.43 0.0070 0.0042

Pluto 24198-06-26 20:24 G 10559375.23 10559375.35 10559375.47 0.0070 0.0032

Pluto 24198-09-22 20:52 G 10559463.25 10559463.37 10559463.50 0.0070 0.0023

Jupiter 24198-10-01 10:48 G 10559471.82 10559471.95 10559472.08 0.0508 0.0155

Pluto 24198-12-19 21:36 G 10559551.27 10559551.40 10559551.53 0.0070 0.0013

Jupiter 24198-12-29 19:55 G 10559561.26 10559561.33 10559561.40 0.0504 0.0428

Pluto 24199-03-17 22:04 G 10559639.29 10559639.42 10559639.55 0.0070 0.0004

Mars 24199-03-31 09:07 G 10559652.81 10559652.88 10559652.96 0.1649 0.1367

Pluto 24199-06-13 22:48 G 10559727.32 10559727.45 10559727.58 0.0071 0.0006

Pluto 24199-09-09 23:16 G 10559815.35 10559815.47 10559815.60 0.0071 0.0016

Pluto 24199-12-06 23:45 G 10559903.38 10559903.49 10559903.62 0.0071 0.0026

Pluto 24200-03-05 00:28 G 10559991.41 10559991.52 10559991.64 0.0071 0.0036

Pluto 24200-06-01 00:57 G 10560079.45 10560079.54 10560079.65 0.0071 0.0046

Pluto 24200-08-28 01:26 G 10560167.50 10560167.56 10560167.66 0.0071 0.0056

Pluto 24200-11-24 02:09 G 10560255.56 10560255.59 10560255.65 0.0071 0.0066

Earth 24204-01-19 08:09 G 10561406.83 10561406.84 10561406.85 0.2675 0.2661

Jupiter 24205-03-01 18:14 G 10561814.09 10561814.26 10561814.42 0.0521 0.0071

Mars 24205-11-24 12:28 G 10562081.93 10562082.02 10562082.11 0.1872 0.1386

Saturn 24206-08-11 21:21 G 10562342.31 10562342.39 10562342.48 0.0291 0.0246

Saturn 24206-11-08 17:16 G 10562431.07 10562431.22 10562431.38 0.0291 0.0100

Saturn 24207-02-05 12:28 G 10562519.86 10562520.02 10562520.19 0.0291 0.0044

Saturn 24207-05-05 07:12 G 10562608.68 10562608.80 10562608.93 0.0291 0.0182

Mars 24208-08-21 17:16 G 10563083.09 10563083.22 10563083.34 0.1655 0.0566

Jupiter 24210-07-21 13:26 G 10563781.96 10563782.06 10563782.17 0.0509 0.0311

Jupiter 24210-10-18 22:19 G 10563871.32 10563871.43 10563871.55 0.0506 0.0270

Moon 24214-07-22 22:04 G 10565244.30 10565244.42 10565244.55 0.2652 0.1300

Earth 24214-07-22 23:16 G 10565244.34 10565244.47 10565244.59 0.2656 0.1222 *

Jupiter 24216-12-18 17:31 G 10566124.07 10566124.23 10566124.39 0.0520 0.0118

Moon 24217-01-21 02:38 G 10566157.50 10566157.61 10566157.71 0.2673 0.1172

Earth 24217-01-21 03:21 G 10566157.54 10566157.64 10566157.75 0.2675 0.1124 *

Mars 24218-01-12 01:12 G 10566513.42 10566513.55 10566513.69 0.1660 0.0241

Saturn 24221-05-23 22:48 G 10567741.41 10567741.45 10567741.50 0.0268 0.0252

Saturn 24221-08-20 10:48 G 10567829.84 10567829.95 10567830.07 0.0268 0.0159

Saturn 24221-11-16 23:02 G 10567918.33 10567918.46 10567918.61 0.0268 0.0065

Saturn 24222-02-13 11:45 G 10568006.84 10568006.99 10568007.13 0.0269 0.0034

Jupiter 24222-05-09 17:02 G 10568092.15 10568092.21 10568092.27 0.0510 0.0454

Saturn 24222-05-13 00:28 G 10568095.39 10568095.52 10568095.65 0.0269 0.0133

Jupiter 24222-08-07 01:40 G 10568181.44 10568181.57 10568181.71 0.0507 0.0125

Saturn 24222-08-09 13:26 G 10568184.00 10568184.06 10568184.14 0.0269 0.0235

Venus 24225-05-30 00:43 G 10569208.44 10569208.53 10569208.62 0.3692 0.2424

Mars 24226-08-13 06:43 G 10569648.70 10569648.78 10569648.87 0.1888 0.1456

Mars 24227-06-04 09:36 G 10569943.79 10569943.90 10569944.00 0.1666 0.1027

Moon 24227-07-25 23:16 G 10569995.33 10569995.47 10569995.60 0.2657 0.0760

Earth 24227-07-26 00:28 G 10569995.39 10569995.52 10569995.65 0.2656 0.1016 *

Jupiter 24228-10-06 15:50 G 10570434.03 10570434.16 10570434.29 0.0519 0.0320

Jupiter 24229-01-04 17:02 G 10570524.13 10570524.21 10570524.30 0.0522 0.0439

Moon 24230-01-23 22:19 G 10570908.31 10570908.43 10570908.54 0.2680 0.0300

Earth 24230-01-23 22:48 G 10570908.34 10570908.45 10570908.57 0.2675 0.0467 *

Venus 24230-12-13 21:50 G 10571232.29 10571232.41 10571232.53 0.3692 0.0362

Venus 24232-06-25 16:33 G 10571792.09 10571792.19 10571792.29 0.3679 0.2077

Jupiter 24234-05-26 05:31 G 10572491.59 10572491.73 10572491.87 0.0507 0.0014

Uranus 24235-05-14 00:28 G 10572844.47 10572844.52 10572844.58 0.0146 0.0134

Uranus 24235-08-10 05:16 G 10572932.63 10572932.72 10572932.82 0.0146 0.0111

Uranus 24235-11-06 09:50 G 10573020.80 10573020.91 10573021.04 0.0146 0.0089

Saturn 24235-12-29 21:50 G 10573074.38 10573074.41 10573074.45 0.0292 0.0284

Mars 24236-01-03 09:50 G 10573078.77 10573078.91 10573079.05 0.1881 0.0122

Uranus 24236-02-02 14:38 G 10573108.99 10573109.11 10573109.25 0.0146 0.0066

Saturn 24236-03-27 17:45 G 10573163.10 10573163.24 10573163.39 0.0291 0.0137

Uranus 24236-04-30 19:40 G 10573197.18 10573197.32 10573197.46 0.0146 0.0042

Saturn 24236-06-24 13:12 G 10573251.89 10573252.05 10573252.22 0.0291 0.0006

Venus 24236-06-28 18:43 G 10573256.17 10573256.28 10573256.38 0.3693 0.1609

Uranus 24236-07-28 00:28 G 10573285.37 10573285.52 10573285.67 0.0146 0.0019

Saturn 24236-09-21 08:09 G 10573340.70 10573340.84 10573340.98 0.0291 0.0146

Uranus 24236-10-24 05:31 G 10573373.58 10573373.73 10573373.88 0.0146 0.0006

Saturn 24236-12-19 02:38 G 10573429.57 10573429.61 10573429.64 0.0291 0.0281

Uranus 24237-01-20 10:19 G 10573461.79 10573461.93 10573462.08 0.0146 0.0029

Uranus 24237-04-18 15:21 G 10573550.00 10573550.14 10573550.28 0.0146 0.0053

Uranus 24237-07-15 20:24 G 10573638.22 10573638.35 10573638.48 0.0146 0.0077

Uranus 24237-10-12 01:12 G 10573726.45 10573726.55 10573726.67 0.0146 0.0102

Uranus 24238-01-08 06:28 G 10573814.70 10573814.77 10573814.85 0.0146 0.0126

Venus 24238-01-09 12:43 G 10573815.91 10573816.03 10573816.15 0.3678 0.0244

Mars 24238-09-30 09:21 G 10574079.84 10574079.89 10574079.95 0.1649 0.1492

Jupiter 24240-07-25 14:38 G 10574744.09 10574744.11 10574744.13 0.0518 0.0512

Jupiter 24240-10-23 16:33 G 10574834.05 10574834.19 10574834.33 0.0522 0.0253

Venus 24242-01-12 15:07 G 10575280.09 10575280.13 10575280.16 0.3694 0.3486

Moon 24243-01-26 18:14 G 10575659.19 10575659.26 10575659.34 0.2682 0.2113

Earth 24243-01-26 18:28 G 10575659.20 10575659.27 10575659.35 0.2675 0.2074 *

Venus 24243-07-26 09:07 G 10575839.77 10575839.88 10575839.99 0.3678 0.1698

Mars 24245-05-25 12:43 G 10576508.93 10576509.03 10576509.14 0.1873 0.1234

Jupiter 24246-03-14 09:21 G 10576801.76 10576801.89 10576802.02 0.0508 0.0152

Jupiter 24246-06-11 18:28 G 10576891.20 10576891.27 10576891.34 0.0505 0.0432

Mars 24248-02-20 17:16 G 10577510.10 10577510.22 10577510.35 0.1654 0.0685

Moon 24250-01-19 12:28 G 10578208.97 10578209.02 10578209.07 0.2670 0.2424

Earth 24250-01-19 13:12 G 10578208.99 10578209.05 10578209.10 0.2675 0.2346 *

Saturn 24251-01-07 12:00 G 10578561.91 10578562.00 10578562.10 0.0268 0.0193

Saturn 24251-04-06 00:14 G 10578650.38 10578650.51 10578650.65 0.0268 0.0099

Saturn 24251-07-03 12:43 G 10578738.88 10578739.03 10578739.18 0.0269 0.0003

Saturn 24251-09-30 01:26 G 10578827.42 10578827.56 10578827.70 0.0269 0.0096

Saturn 24251-12-27 14:09 G 10578916.00 10578916.09 10578916.20 0.0269 0.0197

Jupiter 24252-08-11 16:19 G 10579144.01 10579144.18 10579144.34 0.0521 0.0072

Mars 24257-07-13 01:26 G 10580940.43 10580940.56 10580940.70 0.1660 0.0120

Jupiter 24257-12-31 12:57 G 10581111.93 10581112.04 10581112.15 0.0509 0.0292

Jupiter 24258-03-30 21:50 G 10581201.30 10581201.41 10581201.53 0.0505 0.0289

Moon 24260-07-23 03:50 G 10582046.53 10582046.66 10582046.80 0.2654 0.0922

Earth 24260-07-23 05:02 G 10582046.58 10582046.71 10582046.85 0.2656 0.0762 *

Moon 24263-01-22 07:40 G 10582959.71 10582959.82 10582959.93 0.2675 0.0945

Earth 24263-01-22 08:24 G 10582959.74 10582959.85 10582959.96 0.2675 0.0798 *

Jupiter 24264-05-30 16:04 G 10583454.01 10583454.17 10583454.33 0.0520 0.0109

Saturn 24265-08-14 15:21 G 10583895.02 10583895.14 10583895.27 0.0291 0.0194

Saturn 24265-11-11 11:02 G 10583983.80 10583983.96 10583984.13 0.0291 0.0050

Saturn 24266-02-08 06:14 G 10584072.61 10584072.76 10584072.92 0.0291 0.0093

Mars 24266-02-11 07:12 G 10584075.73 10584075.80 10584075.87 0.1888 0.1612

Saturn 24266-05-08 00:57 G 10584161.44 10584161.54 10584161.64 0.0291 0.0230

Mars 24266-12-03 09:36 G 10584370.79 10584370.90 10584371.01 0.1666 0.0918

Neptune 24268-09-29 22:48 G 10585037.42 10585037.45 10585037.52 0.0089 0.0085

Neptune 24268-12-27 01:40 G 10585125.50 10585125.57 10585125.68 0.0089 0.0076

Neptune 24269-03-25 04:48 G 10585213.59 10585213.70 10585213.81 0.0089 0.0067

Neptune 24269-06-21 07:26 G 10585301.68 10585301.81 10585301.94 0.0089 0.0058

Neptune 24269-09-17 10:04 G 10585389.78 10585389.92 10585390.07 0.0089 0.0049

Jupiter 24269-10-19 15:50 G 10585422.09 10585422.16 10585422.22 0.0510 0.0448

Neptune 24269-12-14 12:57 G 10585477.89 10585478.04 10585478.19 0.0089 0.0039

Jupiter 24270-01-17 00:28 G 10585511.38 10585511.52 10585511.65 0.0506 0.0130

Neptune 24270-03-12 15:36 G 10585565.99 10585566.15 10585566.31 0.0089 0.0030

Neptune 24270-06-08 18:14 G 10585654.10 10585654.26 10585654.43 0.0089 0.0022

Neptune 24270-09-04 21:07 G 10585742.21 10585742.38 10585742.55 0.0089 0.0013

Neptune 24270-12-01 23:45 G 10585830.32 10585830.49 10585830.66 0.0089 0.0004

Neptune 24271-02-28 02:24 G 10585918.43 10585918.60 10585918.77 0.0089 0.0006

Neptune 24271-05-27 04:48 G 10586006.54 10586006.70 10586006.88 0.0089 0.0015

Neptune 24271-08-23 07:26 G 10586094.65 10586094.81 10586094.98 0.0089 0.0023

Neptune 24271-11-19 09:50 G 10586182.77 10586182.91 10586183.08 0.0089 0.0033

Neptune 24272-02-15 12:43 G 10586270.88 10586271.03 10586271.18 0.0089 0.0041

Neptune 24272-05-13 15:07 G 10586359.00 10586359.13 10586359.28 0.0089 0.0050

Neptune 24272-08-09 17:45 G 10586447.12 10586447.24 10586447.38 0.0089 0.0058

Neptune 24272-11-05 20:24 G 10586535.25 10586535.35 10586535.47 0.0089 0.0067

Neptune 24273-02-01 22:48 G 10586623.37 10586623.45 10586623.55 0.0089 0.0075

Neptune 24273-05-01 01:12 G 10586711.51 10586711.55 10586711.62 0.0089 0.0084

Moon 24273-07-26 05:02 G 10586797.60 10586797.71 10586797.83 0.2657 0.1375

Earth 24273-07-26 06:28 G 10586797.65 10586797.77 10586797.88 0.2656 0.1460 *

Mars 24275-07-04 10:19 G 10587505.79 10587505.93 10587506.06 0.1880 0.0279

Moon 24276-01-25 03:21 G 10587710.53 10587710.64 10587710.75 0.2680 0.0767

Earth 24276-01-25 04:04 G 10587710.55 10587710.67 10587710.78 0.2675 0.0793 *

Jupiter 24276-03-18 15:07 G 10587764.00 10587764.13 10587764.27 0.0519 0.0299

Jupiter 24276-06-16 16:33 G 10587854.11 10587854.19 10587854.26 0.0522 0.0461

Uranus 24276-12-09 16:04 G 10588030.17 10588030.17 10588030.17 0.0133 0.0133

Uranus 24277-03-07 21:07 G 10588118.30 10588118.38 10588118.47 0.0133 0.0112

Uranus 24277-06-04 02:09 G 10588206.48 10588206.59 10588206.72 0.0133 0.0092

Uranus 24277-08-31 07:12 G 10588294.67 10588294.80 10588294.95 0.0133 0.0072

Uranus 24277-11-27 12:28 G 10588382.87 10588383.02 10588383.18 0.0133 0.0051

Uranus 24278-02-23 17:31 G 10588471.07 10588471.23 10588471.40 0.0133 0.0032

Mars 24278-03-31 09:36 G 10588506.87 10588506.90 10588506.93 0.1649 0.1603

Uranus 24278-05-22 22:33 G 10588559.28 10588559.44 10588559.61 0.0133 0.0012

Uranus 24278-08-19 03:36 G 10588647.49 10588647.65 10588647.81 0.0133 0.0008

Uranus 24278-11-15 08:24 G 10588735.69 10588735.85 10588736.02 0.0133 0.0028

Uranus 24279-02-11 13:12 G 10588823.91 10588824.05 10588824.21 0.0133 0.0048

Uranus 24279-05-10 18:00 G 10588912.12 10588912.25 10588912.40 0.0133 0.0067

Uranus 24279-08-06 22:48 G 10589000.34 10589000.45 10589000.58 0.0133 0.0086

Uranus 24279-11-03 03:36 G 10589088.56 10589088.65 10589088.76 0.0133 0.0105

Uranus 24280-01-30 08:09 G 10589176.80 10589176.84 10589176.91 0.0133 0.0124

Saturn 24280-05-26 15:07 G 10589294.05 10589294.13 10589294.22 0.0268 0.0214

Saturn 24280-08-23 03:21 G 10589382.51 10589382.64 10589382.77 0.0268 0.0120

Saturn 24280-11-19 15:36 G 10589471.01 10589471.15 10589471.30 0.0268 0.0024

Saturn 24281-02-16 04:19 G 10589559.54 10589559.68 10589559.82 0.0269 0.0075

Saturn 24281-05-15 17:16 G 10589648.11 10589648.22 10589648.33 0.0269 0.0175

Jupiter 24281-11-05 03:36 G 10589821.52 10589821.65 10589821.79 0.0507 0.0023

Venus 24282-01-03 23:45 G 10589881.38 10589881.49 10589881.60 0.3692 0.1743

Venus 24283-07-17 19:26 G 10590441.25 10590441.31 10590441.36 0.3679 0.3266

Pluto 24283-08-20 13:55 G 10590475.03 10590475.08 10590475.16 0.0074 0.0069

Pluto 24283-11-16 16:48 G 10590563.06 10590563.20 10590563.34 0.0074 0.0052

Pluto 24284-02-12 18:57 G 10590651.13 10590651.29 10590651.48 0.0073 0.0036

Pluto 24284-05-10 21:50 G 10590739.22 10590739.41 10590739.61 0.0073 0.0019

Pluto 24284-08-07 00:28 G 10590827.32 10590827.52 10590827.72 0.0073 0.0002

Pluto 24284-11-03 02:52 G 10590915.43 10590915.62 10590915.82 0.0073 0.0014

Mars 24284-11-23 12:57 G 10590935.93 10590936.04 10590936.15 0.1873 0.1092

Pluto 24285-01-30 05:16 G 10591003.55 10591003.72 10591003.91 0.0073 0.0030

Pluto 24285-04-28 07:26 G 10591091.68 10591091.81 10591091.98 0.0073 0.0047

Pluto 24285-07-25 09:50 G 10591179.84 10591179.91 10591180.04 0.0073 0.0063

Venus 24287-07-20 20:52 G 10591905.24 10591905.37 10591905.49 0.3692 0.0325

Mars 24287-08-21 17:31 G 10591937.12 10591937.23 10591937.35 0.1654 0.0804

Jupiter 24288-01-05 13:12 G 10592074.02 10592074.05 10592074.09 0.0518 0.0503

Jupiter 24288-04-04 15:07 G 10592163.99 10592164.13 10592164.27 0.0521 0.0262

Moon 24289-01-26 23:45 G 10592461.43 10592461.49 10592461.54 0.2682 0.2361

Earth 24289-01-26 23:45 G 10592461.44 10592461.49 10592461.54 0.2675 0.2414 *

Venus 24289-01-30 15:07 G 10592465.02 10592465.13 10592465.24 0.3679 0.1478

Venus 24293-02-02 17:31 G 10593929.13 10593929.23 10593929.32 0.3693 0.2243

Moon 24293-07-21 08:38 G 10594097.84 10594097.86 10594097.88 0.2651 0.2611

Earth 24293-07-21 09:07 G 10594097.86 10594097.88 10594097.91 0.2657 0.2600 *

Jupiter 24293-08-24 07:26 G 10594131.68 10594131.81 10594131.94 0.0508 0.0155

Jupiter 24293-11-21 16:33 G 10594221.12 10594221.19 10594221.26 0.0505 0.0430

Venus 24294-08-16 11:31 G 10594488.86 10594488.98 10594489.10 0.3678 0.0420

Saturn 24295-01-01 16:19 G 10594627.09 10594627.18 10594627.29 0.0292 0.0229

Saturn 24295-03-31 12:14 G 10594715.85 10594716.01 10594716.17 0.0291 0.0082

Saturn 24295-06-28 07:26 G 10594804.65 10594804.81 10594804.97 0.0291 0.0061

Saturn 24295-09-25 02:09 G 10594893.48 10594893.59 10594893.71 0.0291 0.0198

Moon 24296-01-20 17:31 G 10595011.16 10595011.23 10595011.30 0.2670 0.2094

Earth 24296-01-20 18:14 G 10595011.18 10595011.26 10595011.33 0.2675 0.2026 *

Mars 24297-01-11 01:40 G 10595367.44 10595367.57 10595367.71 0.1660 0.0017

Jupiter 24300-01-22 14:24 G 10596473.93 10596474.10 10596474.26 0.0521 0.0073

Venus 24300-03-02 07:55 G 10596512.74 10596512.83 10596512.92 0.3677 0.2361

Jupiter 24305-06-13 11:16 G 10598441.86 10598441.97 10598442.08 0.0509 0.0292

Mars 24305-08-13 07:26 G 10598502.77 10598502.81 10598502.86 0.1888 0.1777

Jupiter 24305-09-10 20:09 G 10598531.23 10598531.34 10598531.45 0.0506 0.0289

Mars 24306-06-04 09:50 G 10598797.79 10598797.91 10598798.02 0.1666 0.0803

Moon 24306-07-25 09:36 G 10598848.76 10598848.90 10598849.04 0.2655 0.0491

Earth 24306-07-25 11:02 G 10598848.82 10598848.96 10598849.10 0.2656 0.0318 *

Moon 24309-01-23 12:43 G 10599761.91 10599762.03 10599762.14 0.2677 0.0571

Earth 24309-01-23 13:26 G 10599761.95 10599762.06 10599762.18 0.2675 0.0475 *

Saturn 24309-10-14 16:48 G 10600026.15 10600026.20 10600026.26 0.0268 0.0244

Saturn 24310-01-11 04:48 G 10600114.59 10600114.70 10600114.82 0.0268 0.0152

Saturn 24310-04-09 17:02 G 10600203.07 10600203.21 10600203.36 0.0268 0.0057

Saturn 24310-07-07 05:31 G 10600291.59 10600291.73 10600291.88 0.0269 0.0042

Saturn 24310-10-03 18:14 G 10600380.14 10600380.26 10600380.39 0.0269 0.0141

Saturn 24310-12-31 07:26 G 10600468.75 10600468.81 10600468.87 0.0269 0.0242

Jupiter 24311-11-11 13:40 G 10600783.91 10600784.07 10600784.23 0.0520 0.0114

Mars 24315-01-03 10:33 G 10601932.80 10601932.94 10601933.07 0.1881 0.0424

Mars 24315-10-25 18:00 G 10602228.22 10602228.25 10602228.29 0.1672 0.1601

Jupiter 24317-04-01 15:07 G 10602752.05 10602752.13 10602752.20 0.0510 0.0432

Jupiter 24317-06-29 23:31 G 10602841.35 10602841.48 10602841.62 0.0506 0.0147

Uranus 24319-06-04 08:09 G 10603545.78 10603545.84 10603545.93 0.0146 0.0126

Moon 24319-07-28 11:02 G 10603599.86 10603599.96 10603600.07 0.2658 0.1706

Earth 24319-07-28 12:14 G 10603599.91 10603600.01 10603600.11 0.2656 0.1899 *

Uranus 24319-08-31 13:12 G 10603633.95 10603634.05 10603634.15 0.0146 0.0103

Uranus 24319-11-27 18:00 G 10603722.13 10603722.25 10603722.37 0.0146 0.0080

Uranus 24320-02-23 22:48 G 10603810.31 10603810.45 10603810.58 0.0146 0.0057

Uranus 24320-05-22 03:36 G 10603898.50 10603898.65 10603898.79 0.0146 0.0034

Uranus 24320-08-18 08:24 G 10603986.70 10603986.85 10603987.00 0.0146 0.0010

Uranus 24320-11-14 13:26 G 10604074.91 10604075.06 10604075.20 0.0146 0.0014

Uranus 24321-02-10 18:14 G 10604163.12 10604163.26 10604163.41 0.0146 0.0037

Uranus 24321-05-09 23:02 G 10604251.33 10604251.46 10604251.61 0.0146 0.0062

Uranus 24321-08-06 04:04 G 10604339.56 10604339.67 10604339.80 0.0146 0.0086

Uranus 24321-11-02 09:21 G 10604427.79 10604427.89 10604427.99 0.0146 0.0110

Moon 24322-01-26 08:24 G 10604512.74 10604512.85 10604512.96 0.2680 0.0990

Earth 24322-01-26 09:07 G 10604512.77 10604512.88 10604512.98 0.2675 0.1124 *

Uranus 24322-01-29 14:09 G 10604516.05 10604516.09 10604516.16 0.0146 0.0135

Jupiter 24323-08-30 13:26 G 10605093.93 10605094.06 10605094.20 0.0519 0.0295

Jupiter 24323-11-28 14:52 G 10605184.05 10605184.12 10605184.19 0.0523 0.0466

Saturn 24324-05-21 13:55 G 10605359.06 10605359.08 10605359.12 0.0291 0.0286

Mars 24324-05-25 13:26 G 10605362.94 10605363.06 10605363.18 0.1873 0.0927

Saturn 24324-08-18 10:04 G 10605447.78 10605447.92 10605448.07 0.0291 0.0138

Saturn 24324-11-15 05:45 G 10605536.57 10605536.74 10605536.90 0.0291 0.0008

Saturn 24325-02-12 00:28 G 10605625.39 10605625.52 10605625.67 0.0291 0.0147

Saturn 24325-05-11 18:57 G 10605714.26 10605714.29 10605714.33 0.0291 0.0283

Mars 24327-02-20 17:45 G 10606364.13 10606364.24 10606364.35 0.1654 0.0918

Jupiter 24329-04-18 02:09 G 10607151.45 10607151.59 10607151.73 0.0507 0.0017

Venus 24333-01-26 01:12 G 10608530.49 10608530.55 10608530.62 0.3691 0.3176

Jupiter 24335-06-18 12:28 G 10609403.96 10609404.02 10609404.08 0.0518 0.0485

Jupiter 24335-09-16 14:24 G 10609493.96 10609494.10 10609494.23 0.0522 0.0280

Mars 24336-07-13 01:40 G 10609794.44 10609794.57 10609794.71 0.1660 0.0128

Venus 24338-08-11 22:48 G 10610554.33 10610554.45 10610554.56 0.3692 0.1065

Saturn 24339-03-03 19:40 G 10610758.31 10610758.32 10610758.35 0.0268 0.0265

Saturn 24339-05-31 07:40 G 10610846.72 10610846.82 10610846.94 0.0268 0.0173

Moon 24339-07-23 14:24 G 10610900.03 10610900.10 10610900.17 0.2652 0.2294

Earth 24339-07-23 15:07 G 10610900.05 10610900.13 10610900.22 0.2657 0.2129 *

Saturn 24339-08-27 20:09 G 10610935.20 10610935.34 10610935.48 0.0268 0.0077

Saturn 24339-11-24 08:38 G 10611023.71 10611023.86 10611024.00 0.0269 0.0021

Saturn 24340-02-20 21:21 G 10611112.26 10611112.39 10611112.52 0.0269 0.0120

Venus 24340-02-22 18:00 G 10611114.17 10611114.25 10611114.33 0.3679 0.2681

Saturn 24340-05-19 10:19 G 10611200.85 10611200.93 10611201.01 0.0269 0.0221

Jupiter 24341-02-04 05:31 G 10611461.60 10611461.73 10611461.86 0.0508 0.0159

Jupiter 24341-05-04 14:38 G 10611551.04 10611551.11 10611551.19 0.0505 0.0425

Moon 24342-01-21 22:33 G 10611813.35 10611813.44 10611813.52 0.2671 0.1830

Earth 24342-01-21 23:02 G 10611813.38 10611813.46 10611813.55 0.2675 0.1708 *

Venus 24344-02-25 19:40 G 10612578.20 10612578.32 10612578.44 0.3693 0.0951

Venus 24345-09-07 13:55 G 10613137.96 10613138.08 10613138.20 0.3678 0.0859

Mars 24345-12-03 10:04 G 10613224.79 10613224.92 10613225.04 0.1666 0.0687

Jupiter 24347-07-05 12:43 G 10613803.87 10613804.03 10613804.19 0.0520 0.0078

Neptune 24349-07-10 23:16 G 10614540.47 10614540.47 10614540.47 0.0088 0.0088

Venus 24349-09-10 16:19 G 10614602.10 10614602.18 10614602.25 0.3693 0.2874

Neptune 24349-10-07 00:43 G 10614628.49 10614628.53 10614628.59 0.0088 0.0081

Neptune 24350-01-03 02:24 G 10614716.53 10614716.60 10614716.69 0.0088 0.0074

Neptune 24350-04-01 03:50 G 10614804.58 10614804.66 10614804.77 0.0088 0.0068

Neptune 24350-06-28 06:00 G 10614892.64 10614892.75 10614892.85 0.0088 0.0060

Neptune 24350-09-24 07:26 G 10614980.70 10614980.81 10614980.93 0.0088 0.0052

Neptune 24350-12-21 09:07 G 10615068.76 10615068.88 10615069.01 0.0088 0.0045

Neptune 24351-03-19 10:48 G 10615156.82 10615156.95 10615157.09 0.0088 0.0038

Venus 24351-03-24 10:04 G 10615161.81 10615161.92 10615162.04 0.3678 0.1045

Neptune 24351-06-15 12:28 G 10615244.89 10615245.02 10615245.16 0.0088 0.0031

Neptune 24351-09-11 14:09 G 10615332.95 10615333.09 10615333.23 0.0088 0.0024

Neptune 24351-12-08 15:50 G 10615421.02 10615421.16 10615421.31 0.0088 0.0016

Neptune 24352-03-05 17:45 G 10615509.09 10615509.24 10615509.38 0.0088 0.0009

Neptune 24352-06-01 19:26 G 10615597.16 10615597.31 10615597.45 0.0088 0.0002

Moon 24352-07-25 15:36 G 10615651.00 10615651.15 10615651.29 0.2655 0.0069

Earth 24352-07-25 16:48 G 10615651.06 10615651.20 10615651.34 0.2657 0.0152 *

Neptune 24352-08-28 21:07 G 10615685.23 10615685.38 10615685.53 0.0088 0.0006

Jupiter 24352-11-23 09:21 G 10615771.78 10615771.89 10615772.00 0.0509 0.0298

Neptune 24352-11-24 22:48 G 10615773.31 10615773.45 10615773.60 0.0088 0.0013

Jupiter 24353-02-20 18:14 G 10615861.14 10615861.26 10615861.37 0.0506 0.0284

Neptune 24353-02-21 00:28 G 10615861.38 10615861.52 10615861.67 0.0088 0.0021

Neptune 24353-05-20 02:24 G 10615949.46 10615949.60 10615949.74 0.0088 0.0028

Neptune 24353-08-16 03:50 G 10616037.54 10616037.66 10616037.81 0.0088 0.0036

Neptune 24353-11-12 05:45 G 10616125.62 10616125.74 10616125.87 0.0088 0.0043

Saturn 24354-01-05 12:00 G 10616179.86 10616180.00 10616180.13 0.0292 0.0167

Neptune 24354-02-08 07:26 G 10616213.70 10616213.81 10616213.94 0.0088 0.0051

Saturn 24354-04-04 07:26 G 10616268.65 10616268.81 10616268.98 0.0291 0.0023

Neptune 24354-05-07 09:21 G 10616301.78 10616301.89 10616302.00 0.0088 0.0058

Saturn 24354-07-02 02:38 G 10616357.46 10616357.61 10616357.76 0.0291 0.0119

Mars 24354-07-04 10:48 G 10616359.82 10616359.95 10616360.08 0.1881 0.0576

Neptune 24354-08-03 10:48 G 10616389.87 10616389.95 10616390.06 0.0088 0.0066

Saturn 24354-09-28 21:07 G 10616446.31 10616446.38 10616446.46 0.0291 0.0256

Neptune 24354-10-30 12:57 G 10616477.96 10616478.04 10616478.12 0.0088 0.0073

Moon 24355-01-24 17:45 G 10616564.12 10616564.24 10616564.36 0.2677 0.0254

Earth 24355-01-24 18:28 G 10616564.15 10616564.27 10616564.39 0.2675 0.0158 *

Neptune 24355-01-26 14:24 G 10616566.06 10616566.10 10616566.17 0.0088 0.0081

Mars 24355-04-25 18:14 G 10616655.20 10616655.26 10616655.32 0.1672 0.1484

Venus 24356-10-07 06:43 G 10617185.72 10617185.78 10617185.85 0.3677 0.3030

Jupiter 24359-04-23 11:45 G 10618113.83 10618113.99 10618114.15 0.0520 0.0115

Uranus 24360-12-31 00:00 G 10618731.45 10618731.50 10618731.57 0.0133 0.0124

Uranus 24361-03-29 05:16 G 10618819.62 10618819.72 10618819.83 0.0133 0.0103

Uranus 24361-06-25 10:19 G 10618907.81 10618907.93 10618908.07 0.0133 0.0083

Uranus 24361-09-21 15:21 G 10618996.01 10618996.14 10618996.30 0.0133 0.0063

Uranus 24361-12-18 20:38 G 10619084.21 10619084.36 10619084.52 0.0133 0.0042

Uranus 24362-03-17 01:40 G 10619172.41 10619172.57 10619172.74 0.0133 0.0023

Uranus 24362-06-13 06:43 G 10619260.62 10619260.78 10619260.95 0.0133 0.0003

Uranus 24362-09-09 11:45 G 10619348.83 10619348.99 10619349.15 0.0133 0.0017

Uranus 24362-12-06 16:33 G 10619437.04 10619437.19 10619437.35 0.0133 0.0037

Uranus 24363-03-04 21:21 G 10619525.25 10619525.39 10619525.54 0.0133 0.0056

Uranus 24363-06-01 02:09 G 10619613.46 10619613.59 10619613.73 0.0133 0.0075

Uranus 24363-08-28 06:43 G 10619701.68 10619701.78 10619701.91 0.0133 0.0095

Uranus 24363-11-24 11:45 G 10619789.91 10619789.99 10619790.08 0.0133 0.0113

Mars 24363-11-24 13:55 G 10619789.95 10619790.08 10619790.20 0.1873 0.0764 *

Uranus 24364-02-20 16:19 G 10619878.18 10619878.18 10619878.20 0.0133 0.0132

Jupiter 24364-09-11 13:12 G 10620081.98 10620082.05 10620082.12 0.0510 0.0435

Jupiter 24364-12-09 21:50 G 10620171.27 10620171.41 10620171.54 0.0507 0.0144

Moon 24365-07-28 17:02 G 10620402.14 10620402.21 10620402.29 0.2660 0.2233

Earth 24365-07-28 18:14 G 10620402.19 10620402.26 10620402.32 0.2656 0.2344 *

Mars 24366-08-21 18:00 G 10620791.14 10620791.25 10620791.35 0.1654 0.1039

Moon 24368-01-27 13:40 G 10621314.97 10621315.07 10621315.17 0.2680 0.1436

Earth 24368-01-27 14:09 G 10621314.99 10621315.09 10621315.19 0.2675 0.1455 *

Saturn 24368-10-17 09:50 G 10621578.82 10621578.91 10621579.01 0.0268 0.0201

Saturn 24369-01-13 22:04 G 10621667.29 10621667.42 10621667.55 0.0268 0.0106

Saturn 24369-04-12 10:19 G 10621755.79 10621755.93 10621756.08 0.0269 0.0011

Saturn 24369-07-09 23:02 G 10621844.32 10621844.46 10621844.60 0.0269 0.0089

Saturn 24369-10-06 11:45 G 10621932.89 10621932.99 10621933.10 0.0269 0.0189

Jupiter 24371-02-09 10:48 G 10622423.82 10622423.95 10622424.09 0.0519 0.0304

Jupiter 24371-05-10 12:14 G 10622513.94 10622514.01 10622514.09 0.0523 0.0457

Mars 24376-01-12 01:55 G 10624221.45 10624221.58 10624221.71 0.1660 0.0230

Jupiter 24376-09-28 01:26 G 10624481.42 10624481.56 10624481.69 0.0507 0.0014

Jupiter 24382-11-28 10:19 G 10626733.88 10626733.93 10626733.99 0.0518 0.0487

Jupiter 24383-02-26 12:14 G 10626823.88 10626824.01 10626824.15 0.0522 0.0280

Saturn 24383-05-25 10:04 G 10626911.81 10626911.92 10626912.03 0.0291 0.0220

Saturn 24383-08-22 05:45 G 10627000.58 10627000.74 10627000.90 0.0291 0.0075

Saturn 24383-11-19 00:57 G 10627089.39 10627089.54 10627089.70 0.0291 0.0069

Saturn 24384-02-15 19:40 G 10627178.22 10627178.32 10627178.44 0.0291 0.0207

Mars 24385-06-03 10:04 G 10627651.80 10627651.92 10627652.05 0.1665 0.0572

Moon 24385-07-23 20:09 G 10627702.23 10627702.34 10627702.45 0.2653 0.1702

Earth 24385-07-23 21:07 G 10627702.27 10627702.38 10627702.49 0.2657 0.1659 *

Moon 24388-01-23 03:21 G 10628615.54 10628615.64 10628615.74 0.2673 0.1435

Earth 24388-01-23 04:04 G 10628615.58 10628615.67 10628615.77 0.2675 0.1389 *

Jupiter 24388-07-17 04:04 G 10628791.54 10628791.67 10628791.80 0.0508 0.0156

Jupiter 24388-10-14 13:12 G 10628880.97 10628881.05 10628881.12 0.0505 0.0427

Venus 24389-09-02 00:28 G 10629203.42 10629203.52 10629203.61 0.3692 0.2477

Mars 24394-01-02 11:16 G 10630786.84 10630786.97 10630787.09 0.1881 0.0737

Mars 24394-10-24 18:14 G 10631082.19 10631082.26 10631082.34 0.1672 0.1375

Jupiter 24394-12-15 11:45 G 10631133.83 10631133.99 10631134.15 0.0521 0.0093

Venus 24395-03-18 21:36 G 10631227.28 10631227.40 10631227.52 0.3692 0.0391

Venus 24396-09-28 16:33 G 10631787.09 10631787.19 10631787.29 0.3679 0.2086

Saturn 24398-03-06 12:43 G 10632310.96 10632311.03 10632311.11 0.0268 0.0222

Saturn 24398-06-03 00:57 G 10632399.41 10632399.54 10632399.67 0.0269 0.0128

Moon 24398-07-26 21:36 G 10632453.26 10632453.40 10632453.54 0.2655 0.0401

Earth 24398-07-26 22:48 G 10632453.31 10632453.45 10632453.59 0.2657 0.0606 *

Saturn 24398-08-30 13:12 G 10632487.91 10632488.05 10632488.20 0.0269 0.0032

Saturn 24398-11-27 01:55 G 10632576.44 10632576.58 10632576.72 0.0269 0.0067

Saturn 24399-02-23 14:38 G 10632665.00 10632665.11 10632665.23 0.0269 0.0168

Jupiter 24400-05-05 07:26 G 10633101.70 10633101.81 10633101.92 0.0509 0.0303

Jupiter 24400-08-02 16:04 G 10633191.06 10633191.17 10633191.29 0.0506 0.0279

Venus 24400-10-01 18:28 G 10633251.16 10633251.27 10633251.38 0.3693 0.1597

Moon 24401-01-24 22:48 G 10633366.33 10633366.45 10633366.57 0.2677 0.0052

Earth 24401-01-24 23:31 G 10633366.37 10633366.48 10633366.60 0.2675 0.0192 *

Venus 24402-04-14 12:43 G 10633810.91 10633811.03 10633811.15 0.3678 0.0266

Uranus 24403-03-28 11:31 G 10634158.95 10634158.98 10634159.03 0.0146 0.0140

Mars 24403-05-25 13:55 G 10634216.95 10634217.08 10634217.21 0.1873 0.0634

Uranus 24403-06-24 16:19 G 10634247.10 10634247.18 10634247.27 0.0146 0.0117

Uranus 24403-09-20 20:52 G 10634335.27 10634335.37 10634335.49 0.0146 0.0095

Uranus 24403-12-18 01:40 G 10634423.45 10634423.57 10634423.71 0.0146 0.0072

Uranus 24404-03-15 06:28 G 10634511.64 10634511.77 10634511.92 0.0146 0.0049

Uranus 24404-06-11 11:31 G 10634599.83 10634599.98 10634600.13 0.0146 0.0025

Uranus 24404-09-07 16:19 G 10634688.03 10634688.18 10634688.33 0.0146 0.0003

Uranus 24404-12-04 21:21 G 10634776.24 10634776.39 10634776.54 0.0146 0.0022

Uranus 24405-03-03 02:09 G 10634864.45 10634864.59 10634864.74 0.0146 0.0046

Uranus 24405-05-30 06:57 G 10634952.67 10634952.79 10634952.93 0.0146 0.0071

Uranus 24405-08-26 12:14 G 10635040.90 10635041.01 10635041.13 0.0146 0.0094

Uranus 24405-11-22 17:16 G 10635129.14 10635129.22 10635129.31 0.0146 0.0119

Uranus 24406-02-18 22:19 G 10635217.42 10635217.43 10635217.46 0.0146 0.0144

Mars 24406-02-19 18:00 G 10635218.16 10635218.25 10635218.35 0.1654 0.1158

Venus 24406-04-17 14:52 G 10635275.09 10635275.12 10635275.16 0.3694 0.3497

Jupiter 24406-10-03 09:50 G 10635443.75 10635443.91 10635444.07 0.0519 0.0112

Venus 24407-10-29 08:52 G 10635834.77 10635834.87 10635834.98 0.3678 0.1687

Jupiter 24412-02-22 11:02 G 10637411.90 10637411.96 10637412.03 0.0510 0.0442

Jupiter 24412-05-21 19:40 G 10637501.19 10637501.32 10637501.46 0.0507 0.0137

Saturn 24412-10-11 12:00 G 10637643.92 10637644.00 10637644.09 0.0292 0.0248

Saturn 24413-01-08 07:55 G 10637732.68 10637732.83 10637732.99 0.0291 0.0101

Saturn 24413-04-07 03:21 G 10637821.48 10637821.64 10637821.80 0.0291 0.0042

Saturn 24413-07-04 22:04 G 10637910.30 10637910.42 10637910.55 0.0291 0.0182

Moon 24414-01-27 18:57 G 10638117.20 10638117.29 10638117.38 0.2682 0.1756

Earth 24414-01-27 19:12 G 10638117.21 10638117.30 10638117.39 0.2675 0.1786 *

Mars 24415-07-13 02:09 G 10638648.46 10638648.59 10638648.72 0.1659 0.0354

Jupiter 24418-07-22 08:38 G 10639753.73 10639753.86 10639753.99 0.0519 0.0307

Jupiter 24418-10-20 10:04 G 10639843.84 10639843.92 10639844.00 0.0522 0.0453

Moon 24421-01-20 13:26 G 10640667.04 10640667.06 10640667.09 0.2668 0.2583

Earth 24421-01-20 13:55 G 10640667.06 10640667.08 10640667.10 0.2674 0.2599 *

Jupiter 24424-03-09 23:16 G 10641811.33 10641811.47 10641811.61 0.0508 0.0011

Mars 24424-12-02 10:19 G 10642078.80 10642078.93 10642079.05 0.1665 0.0461

Saturn 24427-07-24 15:07 G 10643043.09 10643043.13 10643043.19 0.0268 0.0247

Saturn 24427-10-21 03:21 G 10643131.52 10643131.64 10643131.76 0.0268 0.0154

Saturn 24428-01-17 15:36 G 10643220.01 10643220.15 10643220.29 0.0268 0.0058

Saturn 24428-04-15 04:04 G 10643308.53 10643308.67 10643308.81 0.0269 0.0039

Saturn 24428-07-12 16:48 G 10643397.08 10643397.20 10643397.33 0.0269 0.0139

Saturn 24428-10-09 05:45 G 10643485.68 10643485.74 10643485.81 0.0269 0.0241

Jupiter 24430-05-10 07:26 G 10644063.77 10644063.81 10644063.85 0.0518 0.0500

Jupiter 24430-08-08 09:21 G 10644153.76 10644153.89 10644154.03 0.0522 0.0268

Moon 24431-07-25 01:55 G 10644504.46 10644504.58 10644504.70 0.2653 0.1437

Earth 24431-07-25 03:07 G 10644504.50 10644504.63 10644504.75 0.2657 0.1199 *

Neptune 24433-06-27 20:24 G 10645208.32 10645208.35 10645208.42 0.0089 0.0085

Mars 24433-07-03 11:31 G 10645213.86 10645213.98 10645214.10 0.1881 0.0880

Neptune 24433-09-23 23:31 G 10645296.39 10645296.48 10645296.57 0.0089 0.0076

Neptune 24433-12-21 02:09 G 10645384.48 10645384.59 10645384.71 0.0089 0.0067

Moon 24434-01-23 08:24 G 10645417.75 10645417.85 10645417.95 0.2674 0.1248

Earth 24434-01-23 09:07 G 10645417.78 10645417.88 10645417.99 0.2675 0.1066 *

Neptune 24434-03-19 04:48 G 10645472.58 10645472.70 10645472.84 0.0089 0.0058

Mars 24434-04-24 18:28 G 10645509.18 10645509.27 10645509.36 0.1671 0.1260

Neptune 24434-06-15 07:40 G 10645560.68 10645560.82 10645560.97 0.0089 0.0048

Neptune 24434-09-11 10:19 G 10645648.79 10645648.93 10645649.09 0.0089 0.0039

Neptune 24434-12-08 13:12 G 10645736.89 10645737.05 10645737.21 0.0089 0.0030

Neptune 24435-03-06 15:50 G 10645825.00 10645825.16 10645825.33 0.0089 0.0021

Neptune 24435-06-02 18:28 G 10645913.11 10645913.27 10645913.45 0.0089 0.0013

Neptune 24435-08-29 21:21 G 10646001.22 10646001.39 10646001.56 0.0089 0.0004

Neptune 24435-11-26 00:00 G 10646089.33 10646089.50 10646089.67 0.0089 0.0006

Jupiter 24435-12-28 02:52 G 10646121.49 10646121.62 10646121.75 0.0508 0.0146

Neptune 24436-02-22 02:38 G 10646177.44 10646177.61 10646177.78 0.0089 0.0015

Jupiter 24436-03-26 12:00 G 10646210.93 10646211.00 10646211.07 0.0505 0.0438

Neptune 24436-05-20 05:02 G 10646265.55 10646265.71 10646265.88 0.0089 0.0024

Neptune 24436-08-16 07:40 G 10646353.67 10646353.82 10646353.98 0.0089 0.0032

Neptune 24436-11-12 10:04 G 10646441.79 10646441.92 10646442.09 0.0089 0.0042

Neptune 24437-02-08 12:57 G 10646529.90 10646530.04 10646530.18 0.0089 0.0050

Neptune 24437-05-07 15:21 G 10646618.02 10646618.14 10646618.28 0.0089 0.0059

Neptune 24437-08-03 17:45 G 10646706.15 10646706.24 10646706.37 0.0089 0.0068

Neptune 24437-10-30 20:38 G 10646794.28 10646794.36 10646794.45 0.0089 0.0076

Neptune 24438-01-26 23:02 G 10646882.42 10646882.46 10646882.52 0.0089 0.0084

Jupiter 24442-05-27 09:21 G 10648463.73 10648463.89 10648464.05 0.0521 0.0088

Saturn 24442-05-28 06:28 G 10648464.63 10648464.77 10648464.91 0.0291 0.0151

Saturn 24442-08-25 02:09 G 10648553.42 10648553.59 10648553.75 0.0291 0.0010

Saturn 24442-11-21 21:07 G 10648642.24 10648642.38 10648642.52 0.0291 0.0134

Mars 24442-11-23 14:24 G 10648643.97 10648644.10 10648644.24 0.1874 0.0461

Saturn 24443-02-18 15:36 G 10648731.10 10648731.15 10648731.21 0.0290 0.0270

Moon 24444-07-27 03:21 G 10649255.51 10649255.64 10649255.77 0.2657 0.0974

Earth 24444-07-27 04:33 G 10649255.57 10649255.69 10649255.82 0.2657 0.1060 *

Uranus 24445-01-20 07:55 G 10649432.76 10649432.83 10649432.93 0.0133 0.0115

Uranus 24445-04-18 13:26 G 10649520.95 10649521.06 10649521.18 0.0133 0.0094

Uranus 24445-07-15 18:28 G 10649609.14 10649609.27 10649609.42 0.0133 0.0074

Mars 24445-08-20 18:14 G 10649645.18 10649645.26 10649645.35 0.1654 0.1275

Uranus 24445-10-11 23:31 G 10649697.34 10649697.48 10649697.64 0.0133 0.0054

Uranus 24446-01-08 04:48 G 10649785.54 10649785.70 10649785.86 0.0133 0.0034

Pluto 24446-01-30 01:12 G 10649807.53 10649807.55 10649807.60 0.0070 0.0067

Uranus 24446-04-06 09:50 G 10649873.75 10649873.91 10649874.08 0.0133 0.0014

Venus 24446-04-08 23:31 G 10649876.37 10649876.48 10649876.58 0.3692 0.1783

Pluto 24446-04-28 01:40 G 10649895.51 10649895.57 10649895.66 0.0070 0.0058

Uranus 24446-07-03 14:52 G 10649961.95 10649962.12 10649962.28 0.0133 0.0006

Pluto 24446-07-25 02:24 G 10649983.52 10649983.60 10649983.71 0.0070 0.0048

Uranus 24446-09-29 19:40 G 10650050.16 10650050.32 10650050.49 0.0133 0.0026

Pluto 24446-10-21 02:52 G 10650071.53 10650071.62 10650071.74 0.0070 0.0039

Uranus 24446-12-27 00:43 G 10650138.37 10650138.53 10650138.68 0.0133 0.0045

Pluto 24447-01-17 03:36 G 10650159.54 10650159.65 10650159.78 0.0070 0.0030

Moon 24447-01-26 03:50 G 10650168.55 10650168.66 10650168.78 0.2678 0.0446

Earth 24447-01-26 04:33 G 10650168.58 10650168.69 10650168.81 0.2675 0.0509 *

Uranus 24447-03-25 05:16 G 10650226.59 10650226.72 10650226.87 0.0133 0.0065

Pluto 24447-04-15 04:19 G 10650247.56 10650247.68 10650247.81 0.0070 0.0020

Uranus 24447-06-21 10:04 G 10650314.80 10650314.92 10650315.06 0.0133 0.0084

Pluto 24447-07-12 05:02 G 10650335.58 10650335.71 10650335.84 0.0070 0.0010

Uranus 24447-09-17 14:52 G 10650403.03 10650403.12 10650403.23 0.0133 0.0103

Pluto 24447-10-08 05:31 G 10650423.60 10650423.73 10650423.86 0.0070 0.0002

Jupiter 24447-10-16 05:45 G 10650431.63 10650431.74 10650431.85 0.0509 0.0301

Venus 24447-10-20 19:26 G 10650436.26 10650436.31 10650436.36 0.3679 0.3280

Uranus 24447-12-14 19:26 G 10650491.26 10650491.31 10650491.39 0.0133 0.0122

Pluto 24448-01-04 06:14 G 10650511.63 10650511.76 10650511.89 0.0071 0.0009

Jupiter 24448-01-13 14:38 G 10650520.99 10650521.11 10650521.22 0.0506 0.0280

Pluto 24448-04-01 06:43 G 10650599.66 10650599.78 10650599.91 0.0071 0.0019

Pluto 24448-06-28 07:26 G 10650687.69 10650687.81 10650687.93 0.0071 0.0029

Pluto 24448-09-24 07:55 G 10650775.73 10650775.83 10650775.94 0.0071 0.0039

Pluto 24448-12-21 08:24 G 10650863.77 10650863.85 10650863.96 0.0071 0.0049

Pluto 24449-03-19 09:07 G 10650951.82 10650951.88 10650951.96 0.0071 0.0059

Pluto 24449-06-15 09:36 G 10651039.89 10651039.90 10651039.94 0.0071 0.0070

Venus 24451-10-23 20:38 G 10651900.24 10651900.36 10651900.48 0.3692 0.0290

Mars 24452-04-14 17:02 G 10652074.19 10652074.21 10652074.23 0.1865 0.1835

Venus 24453-05-05 15:07 G 10652460.03 10652460.13 10652460.24 0.3679 0.1488

Jupiter 24454-03-15 08:38 G 10652773.70 10652773.86 10652774.02 0.0520 0.0101

Mars 24455-01-11 02:09 G 10653075.47 10653075.59 10653075.72 0.1660 0.0466

Saturn 24457-03-09 06:00 G 10653863.65 10653863.75 10653863.86 0.0269 0.0177

Venus 24457-05-08 17:16 G 10653924.12 10653924.22 10653924.32 0.3693 0.2232

Saturn 24457-06-05 18:14 G 10653952.13 10653952.26 10653952.40 0.0269 0.0081

Saturn 24457-09-02 06:43 G 10654040.64 10654040.78 10654040.93 0.0269 0.0017

Saturn 24457-11-29 19:26 G 10654129.18 10654129.31 10654129.44 0.0269 0.0116

Saturn 24458-02-26 08:24 G 10654217.77 10654217.85 10654217.94 0.0269 0.0217

Venus 24458-11-19 11:16 G 10654483.85 10654483.97 10654484.09 0.3678 0.0376

Jupiter 24459-08-04 09:07 G 10654741.82 10654741.88 10654741.95 0.0510 0.0447

Jupiter 24459-11-01 17:45 G 10654831.10 10654831.24 10654831.37 0.0507 0.0131

Moon 24460-01-29 00:14 G 10654919.43 10654919.51 10654919.58 0.2682 0.2100

Earth 24460-01-29 00:14 G 10654919.44 10654919.51 10654919.58 0.2675 0.2121 *

Mars 24464-06-02 10:33 G 10656505.81 10656505.94 10656506.07 0.1665 0.0337

Venus 24464-06-04 07:40 G 10656507.73 10656507.82 10656507.92 0.3678 0.2343

Jupiter 24466-01-01 06:28 G 10657083.64 10657083.77 10657083.91 0.0519 0.0307

Jupiter 24466-04-01 07:55 G 10657173.76 10657173.83 10657173.91 0.0522 0.0454

Moon 24467-01-21 18:28 G 10657469.22 10657469.27 10657469.32 0.2670 0.2402

Earth 24467-01-21 18:57 G 10657469.23 10657469.29 10657469.35 0.2674 0.2277 *

Jupiter 24471-08-20 21:07 G 10659141.24 10659141.38 10659141.52 0.0508 0.0016

Saturn 24471-10-15 09:07 G 10659196.75 10659196.88 10659197.01 0.0292 0.0176

Saturn 24472-01-12 04:48 G 10659285.53 10659285.70 10659285.86 0.0291 0.0031

Saturn 24472-04-09 23:45 G 10659374.34 10659374.49 10659374.64 0.0291 0.0111

Saturn 24472-07-07 18:14 G 10659463.19 10659463.26 10659463.35 0.0291 0.0249

Mars 24473-01-01 11:45 G 10659640.88 10659640.99 10659641.11 0.1882 0.1040

Mars 24473-10-23 18:43 G 10659936.18 10659936.28 10659936.37 0.1671 0.1145

Moon 24477-07-25 07:55 G 10661306.69 10661306.83 10661306.96 0.2653 0.0799

Earth 24477-07-25 08:52 G 10661306.74 10661306.87 10661307.01 0.2657 0.0742 *

Jupiter 24477-10-20 05:02 G 10661393.68 10661393.71 10661393.75 0.0518 0.0504

Jupiter 24478-01-18 07:12 G 10661483.66 10661483.80 10661483.94 0.0521 0.0263

Moon 24480-01-24 13:26 G 10662219.94 10662220.06 10662220.17 0.2675 0.0793

Earth 24480-01-24 14:09 G 10662219.98 10662220.09 10662220.21 0.2674 0.0745 *

Mars 24482-05-24 14:52 G 10663070.98 10663071.12 10663071.25 0.1874 0.0312

Jupiter 24483-06-09 00:57 G 10663451.41 10663451.54 10663451.67 0.0509 0.0153

Jupiter 24483-09-06 09:50 G 10663540.84 10663540.91 10663540.99 0.0505 0.0432

Mars 24485-02-18 18:28 G 10664072.20 10664072.27 10664072.34 0.1654 0.1394

Saturn 24486-07-27 08:38 G 10664595.77 10664595.86 10664595.96 0.0268 0.0200

Saturn 24486-10-23 20:52 G 10664684.24 10664684.37 10664684.50 0.0268 0.0105

Saturn 24487-01-20 09:21 G 10664772.74 10664772.89 10664773.03 0.0269 0.0010

Uranus 24487-04-17 18:57 G 10664860.24 10664860.29 10664860.34 0.0145 0.0134

Saturn 24487-04-18 21:50 G 10664861.27 10664861.41 10664861.55 0.0269 0.0090

Uranus 24487-07-14 23:31 G 10664948.39 10664948.48 10664948.58 0.0146 0.0111

Saturn 24487-07-16 10:48 G 10664949.85 10664949.95 10664950.05 0.0269 0.0191

Uranus 24487-10-11 04:19 G 10665036.57 10665036.68 10665036.80 0.0146 0.0089

Uranus 24488-01-07 09:07 G 10665124.75 10665124.88 10665125.01 0.0146 0.0066

Uranus 24488-04-04 13:55 G 10665212.94 10665213.08 10665213.22 0.0146 0.0043

Uranus 24488-07-01 18:43 G 10665301.13 10665301.28 10665301.43 0.0146 0.0020

Uranus 24488-09-27 23:31 G 10665389.33 10665389.48 10665389.63 0.0146 0.0004

Uranus 24488-12-25 04:33 G 10665477.54 10665477.69 10665477.83 0.0146 0.0028

Uranus 24489-03-23 09:21 G 10665565.75 10665565.89 10665566.03 0.0146 0.0052

Uranus 24489-06-19 14:24 G 10665653.97 10665654.10 10665654.23 0.0146 0.0076

Uranus 24489-09-15 19:26 G 10665742.20 10665742.31 10665742.42 0.0146 0.0100

Jupiter 24489-11-06 06:14 G 10665793.60 10665793.76 10665793.93 0.0521 0.0075

Uranus 24489-12-13 00:14 G 10665830.45 10665830.51 10665830.60 0.0146 0.0125

Moon 24490-07-28 09:21 G 10666057.77 10666057.89 10666058.01 0.2659 0.1264

Earth 24490-07-28 10:33 G 10666057.82 10666057.94 10666058.05 0.2657 0.1502 *

Mars 24491-10-14 17:31 G 10666501.17 10666501.23 10666501.29 0.1866 0.1673

Moon 24493-01-26 09:07 G 10666970.77 10666970.88 10666970.99 0.2679 0.0704

Earth 24493-01-26 09:36 G 10666970.79 10666970.90 10666971.01 0.2675 0.0836 *

Mars 24494-07-12 02:24 G 10667502.48 10667502.60 10667502.73 0.1659 0.0586

Jupiter 24495-03-28 04:33 G 10667761.58 10667761.69 10667761.80 0.0509 0.0293

Jupiter 24495-06-25 13:26 G 10667850.94 10667851.06 10667851.17 0.0506 0.0288

Venus 24497-04-30 00:57 G 10668525.48 10668525.54 10668525.60 0.3692 0.3237

Saturn 24501-03-04 07:26 G 10669928.71 10669928.81 10669928.92 0.0291 0.0226

Saturn 24501-06-01 03:21 G 10670017.48 10670017.64 10670017.80 0.0291 0.0080

Jupiter 24501-08-26 06:00 G 10670103.59 10670103.75 10670103.91 0.0520 0.0109

Saturn 24501-08-28 22:48 G 10670106.29 10670106.45 10670106.61 0.0291 0.0064

Saturn 24501-11-25 17:31 G 10670195.12 10670195.23 10670195.35 0.0290 0.0202

Venus 24502-11-14 22:19 G 10670549.32 10670549.43 10670549.55 0.3692 0.1102

Mars 24503-12-03 10:33 G 10670932.81 10670932.94 10670933.07 0.1665 0.0228

Venus 24504-05-27 18:00 G 10671109.17 10671109.25 10671109.33 0.3679 0.2698

Moon 24506-01-30 05:16 G 10671721.68 10671721.72 10671721.76 0.2682 0.2480

Earth 24506-01-30 05:16 G 10671721.68 10671721.72 10671721.77 0.2675 0.2456 *

Jupiter 24507-01-15 07:40 G 10672071.75 10672071.82 10672071.88 0.0510 0.0445

Jupiter 24507-04-14 16:04 G 10672161.04 10672161.17 10672161.30 0.0506 0.0132

Venus 24508-05-30 19:26 G 10672573.19 10672573.31 10672573.42 0.3693 0.0929

Venus 24509-12-11 13:55 G 10673132.96 10673133.08 10673133.19 0.3678 0.0894

Earth 24510-07-24 12:57 G 10673358.01 10673358.04 10673358.07 0.2657 0.2592

Mars 24512-07-03 12:00 G 10674067.90 10674068.00 10674068.11 0.1881 0.1190

Moon 24513-01-22 23:16 G 10674271.40 10674271.47 10674271.55 0.2671 0.2011

Earth 24513-01-23 00:00 G 10674271.42 10674271.50 10674271.58 0.2674 0.1960 *

Mars 24513-04-24 18:43 G 10674363.18 10674363.28 10674363.38 0.1671 0.1033

Jupiter 24513-06-14 05:02 G 10674413.58 10674413.71 10674413.85 0.0519 0.0299

Jupiter 24513-09-12 06:43 G 10674503.71 10674503.78 10674503.85 0.0522 0.0463

Venus 24513-12-14 16:04 G 10674597.09 10674597.17 10674597.24 0.3693 0.2868

Neptune 24514-04-07 21:50 G 10674711.41 10674711.41 10674711.44 0.0088 0.0087

Neptune 24514-07-04 23:31 G 10674799.43 10674799.48 10674799.55 0.0088 0.0080

Neptune 24514-10-01 01:12 G 10674887.48 10674887.55 10674887.64 0.0088 0.0073

Neptune 24514-12-28 02:38 G 10674975.53 10674975.61 10674975.72 0.0088 0.0066

Neptune 24515-03-26 04:19 G 10675063.59 10675063.68 10675063.80 0.0088 0.0059

Neptune 24515-06-22 06:14 G 10675151.65 10675151.76 10675151.88 0.0088 0.0051

Venus 24515-06-27 10:04 G 10675156.80 10675156.92 10675157.03 0.3678 0.1016

Neptune 24515-09-18 07:55 G 10675239.71 10675239.83 10675239.96 0.0088 0.0044

Neptune 24515-12-15 09:36 G 10675327.77 10675327.90 10675328.03 0.0088 0.0037

Saturn 24515-12-15 11:16 G 10675327.90 10675327.97 10675328.05 0.0269 0.0225 *

Neptune 24516-03-12 11:02 G 10675415.84 10675415.96 10675416.11 0.0088 0.0030

Saturn 24516-03-12 23:16 G 10675416.35 10675416.47 10675416.60 0.0269 0.0131

Neptune 24516-06-08 12:57 G 10675503.90 10675504.04 10675504.18 0.0088 0.0022

Saturn 24516-06-09 11:45 G 10675504.85 10675504.99 10675505.14 0.0269 0.0034

Neptune 24516-09-04 14:38 G 10675591.97 10675592.11 10675592.26 0.0088 0.0015

Saturn 24516-09-06 00:28 G 10675593.37 10675593.52 10675593.66 0.0269 0.0066

Neptune 24516-12-01 16:19 G 10675680.04 10675680.18 10675680.33 0.0088 0.0008

Saturn 24516-12-03 13:12 G 10675681.94 10675682.05 10675682.17 0.0269 0.0166

Neptune 24517-02-27 18:00 G 10675768.11 10675768.25 10675768.40 0.0088 0.0003

Saturn 24517-03-02 02:09 G 10675770.59 10675770.59 10675770.60 0.0270 0.0269

Neptune 24517-05-26 19:55 G 10675856.18 10675856.33 10675856.47 0.0088 0.0007

Neptune 24517-08-22 21:36 G 10675944.25 10675944.40 10675944.54 0.0088 0.0014

Neptune 24517-11-18 23:16 G 10676032.33 10676032.47 10676032.61 0.0088 0.0022

Neptune 24518-02-15 00:57 G 10676120.40 10676120.54 10676120.68 0.0088 0.0029

Neptune 24518-05-14 02:38 G 10676208.48 10676208.61 10676208.75 0.0088 0.0037

Neptune 24518-08-10 04:19 G 10676296.56 10676296.68 10676296.82 0.0088 0.0045

Neptune 24518-11-06 06:00 G 10676384.64 10676384.75 10676384.88 0.0088 0.0052

Jupiter 24519-01-31 19:12 G 10676471.17 10676471.30 10676471.44 0.0507 0.0022

Neptune 24519-02-02 07:55 G 10676472.73 10676472.83 10676472.95 0.0088 0.0059

Neptune 24519-05-01 09:36 G 10676560.82 10676560.90 10676561.01 0.0088 0.0067

Neptune 24519-07-28 11:31 G 10676648.91 10676648.98 10676649.06 0.0088 0.0074

Neptune 24519-10-24 13:12 G 10676737.01 10676737.05 10676737.11 0.0088 0.0082

Venus 24521-01-10 06:43 G 10677180.71 10677180.78 10677180.84 0.3677 0.3001

Mars 24521-11-23 14:52 G 10677497.99 10677498.12 10677498.26 0.1874 0.0175

Moon 24523-07-27 13:40 G 10678108.93 10678109.07 10678109.21 0.2654 0.0505

Earth 24523-07-27 14:52 G 10678108.98 10678109.12 10678109.26 0.2657 0.0278 *

Mars 24524-08-20 18:43 G 10678499.23 10678499.28 10678499.33 0.1654 0.1518

Jupiter 24525-04-02 02:52 G 10678723.59 10678723.62 10678723.66 0.0518 0.0505

Jupiter 24525-07-01 05:02 G 10678813.57 10678813.71 10678813.85 0.0521 0.0262

Moon 24526-01-25 18:28 G 10679022.15 10679022.27 10679022.38 0.2675 0.0604

Earth 24526-01-25 19:12 G 10679022.19 10679022.30 10679022.42 0.2675 0.0419 *

Uranus 24528-11-14 10:48 G 10680045.92 10680045.95 10680046.01 0.0133 0.0127

Uranus 24529-02-10 16:19 G 10680134.08 10680134.18 10680134.28 0.0133 0.0106

Uranus 24529-05-09 21:21 G 10680222.27 10680222.39 10680222.52 0.0133 0.0086

Uranus 24529-08-06 02:24 G 10680310.46 10680310.60 10680310.75 0.0133 0.0066

Uranus 24529-11-02 07:40 G 10680398.67 10680398.82 10680398.98 0.0133 0.0045

Uranus 24530-01-29 12:43 G 10680486.87 10680487.03 10680487.20 0.0133 0.0025

Uranus 24530-04-27 17:45 G 10680575.08 10680575.24 10680575.41 0.0133 0.0006

Saturn 24530-07-22 10:04 G 10680660.84 10680660.92 10680661.01 0.0292 0.0251

Uranus 24530-07-24 22:48 G 10680663.28 10680663.45 10680663.61 0.0133 0.0014

Saturn 24530-10-19 06:00 G 10680749.60 10680749.75 10680749.91 0.0291 0.0103

Uranus 24530-10-21 03:36 G 10680751.50 10680751.65 10680751.81 0.0133 0.0034

Jupiter 24530-11-19 22:48 G 10680781.32 10680781.45 10680781.58 0.0509 0.0160

Saturn 24531-01-16 01:26 G 10680838.40 10680838.56 10680838.72 0.0291 0.0041

Uranus 24531-01-17 08:24 G 10680839.71 10680839.85 10680840.01 0.0133 0.0054

Jupiter 24531-02-17 07:40 G 10680870.75 10680870.82 10680870.90 0.0505 0.0424

Saturn 24531-04-14 20:24 G 10680927.22 10680927.35 10680927.48 0.0291 0.0180

Uranus 24531-04-15 13:12 G 10680927.92 10680928.05 10680928.20 0.0133 0.0073

Mars 24531-04-15 18:00 G 10680928.17 10680928.25 10680928.33 0.1866 0.1514 *

Uranus 24531-07-12 18:00 G 10681016.14 10681016.25 10681016.38 0.0133 0.0092

Uranus 24531-10-08 22:48 G 10681104.37 10681104.45 10681104.55 0.0133 0.0111

Uranus 24532-01-05 03:21 G 10681192.62 10681192.64 10681192.69 0.0133 0.0130

Pluto 24532-03-11 19:40 G 10681259.24 10681259.32 10681259.44 0.0074 0.0064

Pluto 24532-06-07 22:19 G 10681347.30 10681347.43 10681347.60 0.0074 0.0047

Pluto 24532-09-04 01:12 G 10681435.37 10681435.55 10681435.74 0.0073 0.0030

Pluto 24532-12-01 03:36 G 10681523.46 10681523.65 10681523.86 0.0073 0.0014

Pluto 24533-02-27 06:28 G 10681611.57 10681611.77 10681611.96 0.0073 0.0004

Pluto 24533-05-26 08:38 G 10681699.68 10681699.86 10681700.06 0.0073 0.0020

Pluto 24533-08-22 11:02 G 10681787.80 10681787.96 10681788.15 0.0073 0.0036

Pluto 24533-11-18 13:40 G 10681875.94 10681876.07 10681876.22 0.0073 0.0052

Mars 24534-01-11 02:38 G 10681929.49 10681929.61 10681929.73 0.1659 0.0705

Pluto 24534-02-14 16:04 G 10681964.11 10681964.17 10681964.25 0.0073 0.0068

Moon 24536-07-29 15:07 G 10682860.04 10682860.13 10682860.23 0.2660 0.1895

Earth 24536-07-29 16:19 G 10682860.09 10682860.18 10682860.28 0.2657 0.1949 *

Jupiter 24537-04-19 04:04 G 10683123.51 10683123.67 10683123.83 0.0520 0.0069

Moon 24539-01-28 14:09 G 10683772.99 10683773.09 10683773.20 0.2681 0.1181

Earth 24539-01-28 14:38 G 10683773.01 10683773.11 10683773.22 0.2675 0.1171 *

Jupiter 24542-09-08 02:24 G 10685091.49 10685091.60 10685091.71 0.0510 0.0300

Jupiter 24542-12-06 11:16 G 10685180.85 10685180.97 10685181.08 0.0506 0.0281

Mars 24543-06-03 10:48 G 10685359.81 10685359.95 10685360.08 0.1665 0.0118

Saturn 24545-05-03 14:09 G 10686060.04 10686060.09 10686060.15 0.0268 0.0246

Saturn 24545-07-31 02:24 G 10686148.48 10686148.60 10686148.72 0.0268 0.0152

Saturn 24545-10-27 14:38 G 10686236.97 10686237.11 10686237.25 0.0268 0.0057

Saturn 24546-01-24 03:07 G 10686325.48 10686325.63 10686325.77 0.0269 0.0041

Saturn 24546-04-22 15:50 G 10686414.03 10686414.16 10686414.28 0.0269 0.0141

Saturn 24546-07-20 04:48 G 10686502.64 10686502.70 10686502.76 0.0269 0.0243

Jupiter 24549-02-05 02:52 G 10687433.46 10687433.62 10687433.78 0.0520 0.0125

Mars 24552-01-02 12:28 G 10688494.92 10688495.02 10688495.11 0.1882 0.1343

Mars 24552-10-23 18:57 G 10688790.18 10688790.29 10688790.40 0.1671 0.0917

Venus 24553-12-06 00:00 G 10689198.41 10689198.50 10689198.59 0.3692 0.2531

Jupiter 24554-06-27 06:14 G 10689401.69 10689401.76 10689401.83 0.0510 0.0440

Jupiter 24554-09-24 14:38 G 10689490.98 10689491.11 10689491.25 0.0507 0.0139

Moon 24556-07-24 18:00 G 10690160.18 10690160.25 10690160.33 0.2652 0.2225

Earth 24556-07-24 18:57 G 10690160.21 10690160.29 10690160.38 0.2657 0.2116 *

Moon 24559-01-24 04:19 G 10691073.59 10691073.68 10691073.76 0.2672 0.1769

Earth 24559-01-24 05:02 G 10691073.62 10691073.71 10691073.80 0.2674 0.1640 *

Venus 24559-06-21 21:21 G 10691222.27 10691222.39 10691222.51 0.3692 0.0440

Saturn 24560-03-07 05:02 G 10691481.57 10691481.71 10691481.85 0.0291 0.0150

Saturn 24560-06-04 00:43 G 10691570.36 10691570.53 10691570.69 0.0291 0.0009

Saturn 24560-08-31 19:40 G 10691659.18 10691659.32 10691659.46 0.0290 0.0135

Jupiter 24560-11-24 02:24 G 10691743.47 10691743.60 10691743.74 0.0519 0.0309

Saturn 24560-11-28 14:09 G 10691748.04 10691748.09 10691748.15 0.0290 0.0272

Venus 24561-01-01 16:33 G 10691782.09 10691782.19 10691782.29 0.3679 0.2108

Jupiter 24561-02-22 04:04 G 10691833.59 10691833.67 10691833.75 0.0522 0.0454

Mars 24561-05-24 15:21 G 10691925.00 10691925.14 10691925.28 0.1874 0.0032

Mars 24564-02-19 18:43 G 10692926.27 10692926.28 10692926.30 0.1653 0.1633

Venus 24565-01-04 18:14 G 10693246.15 10693246.26 10693246.37 0.3693 0.1577

Jupiter 24566-07-13 17:45 G 10693801.10 10693801.24 10693801.38 0.0507 0.0019

Venus 24566-07-18 12:28 G 10693805.90 10693806.02 10693806.14 0.3678 0.0265

Moon 24569-07-27 19:40 G 10694911.17 10694911.32 10694911.46 0.2656 0.0105

Earth 24569-07-27 20:52 G 10694911.23 10694911.37 10694911.51 0.2657 0.0184 *

Venus 24570-07-21 14:52 G 10695270.08 10695270.12 10695270.15 0.3693 0.3494

Mars 24570-10-14 18:14 G 10695355.16 10695355.26 10695355.35 0.1866 0.1367

Uranus 24571-05-09 02:09 G 10695561.54 10695561.59 10695561.67 0.0145 0.0128

Uranus 24571-08-05 06:57 G 10695649.70 10695649.79 10695649.90 0.0146 0.0105

Uranus 24571-11-01 11:45 G 10695737.87 10695737.99 10695738.12 0.0146 0.0082

Moon 24572-01-26 23:31 G 10695824.36 10695824.48 10695824.60 0.2676 0.0139

Earth 24572-01-27 00:14 G 10695824.40 10695824.51 10695824.63 0.2674 0.0112 *

Uranus 24572-01-28 16:33 G 10695826.06 10695826.19 10695826.33 0.0146 0.0059

Venus 24572-02-01 08:52 G 10695829.76 10695829.87 10695829.98 0.3678 0.1666

Uranus 24572-04-25 21:21 G 10695914.25 10695914.39 10695914.54 0.0146 0.0036

Uranus 24572-07-23 02:09 G 10696002.44 10696002.59 10696002.74 0.0146 0.0013

Jupiter 24572-09-12 01:26 G 10696053.52 10696053.56 10696053.60 0.0518 0.0499

Uranus 24572-10-19 06:57 G 10696090.65 10696090.79 10696090.94 0.0146 0.0012

Jupiter 24572-12-11 03:36 G 10696143.51 10696143.65 10696143.79 0.0522 0.0270

Uranus 24573-01-15 12:00 G 10696178.85 10696179.00 10696179.15 0.0146 0.0035

Uranus 24573-04-13 16:48 G 10696267.07 10696267.20 10696267.34 0.0146 0.0059

Uranus 24573-07-10 21:50 G 10696355.29 10696355.41 10696355.54 0.0146 0.0083

Mars 24573-07-12 02:38 G 10696356.50 10696356.61 10696356.73 0.1659 0.0821

Uranus 24573-10-07 02:52 G 10696443.52 10696443.62 10696443.73 0.0146 0.0107

Uranus 24574-01-03 07:40 G 10696531.77 10696531.82 10696531.90 0.0146 0.0132

Saturn 24574-12-18 04:33 G 10696880.59 10696880.69 10696880.80 0.0269 0.0180

Saturn 24575-03-16 16:48 G 10696969.06 10696969.20 10696969.34 0.0269 0.0084

Saturn 24575-06-13 05:16 G 10697057.57 10697057.72 10697057.86 0.0269 0.0014

Saturn 24575-09-09 18:00 G 10697146.11 10697146.25 10697146.38 0.0269 0.0114

Saturn 24575-12-07 06:43 G 10697234.70 10697234.78 10697234.87 0.0269 0.0215

Venus 24577-08-17 05:31 G 10697853.73 10697853.73 10697853.73 0.3677 0.3676

Jupiter 24578-05-01 20:52 G 10698111.24 10698111.37 10698111.50 0.0508 0.0163

Jupiter 24578-07-30 06:00 G 10698200.67 10698200.75 10698200.82 0.0505 0.0420

Moon 24582-07-30 21:07 G 10699662.30 10699662.38 10699662.46 0.2660 0.2158

Earth 24582-07-30 22:19 G 10699662.37 10699662.43 10699662.48 0.2657 0.2389 *

Mars 24582-12-02 10:48 G 10699786.82 10699786.95 10699787.09 0.1665 0.0059

Jupiter 24584-09-29 01:55 G 10700453.42 10700453.58 10700453.75 0.0520 0.0069

Moon 24585-01-28 19:26 G 10700575.21 10700575.31 10700575.41 0.2681 0.1379

Earth 24585-01-28 19:40 G 10700575.23 10700575.32 10700575.42 0.2675 0.1507 *

Saturn 24589-07-25 07:12 G 10702213.67 10702213.80 10702213.94 0.0292 0.0177

Saturn 24589-10-22 02:52 G 10702302.46 10702302.62 10702302.79 0.0291 0.0032

Saturn 24590-01-18 22:04 G 10702391.27 10702391.42 10702391.58 0.0291 0.0112

Jupiter 24590-02-18 00:14 G 10702421.41 10702421.51 10702421.62 0.0510 0.0308

Saturn 24590-04-17 16:48 G 10702480.12 10702480.20 10702480.28 0.0291 0.0249

Jupiter 24590-05-18 09:07 G 10702510.76 10702510.88 10702511.00 0.0506 0.0275

Mars 24591-07-03 12:43 G 10702921.95 10702922.03 10702922.11 0.1882 0.1496

Mars 24592-04-23 18:57 G 10703217.18 10703217.29 10703217.41 0.1671 0.0802

Jupiter 24596-07-18 00:43 G 10704763.37 10704763.53 10704763.69 0.0519 0.0126

Neptune 24598-03-25 18:14 G 10705379.22 10705379.26 10705379.33 0.0089 0.0084

Neptune 24598-06-21 20:52 G 10705467.30 10705467.37 10705467.48 0.0089 0.0075

Neptune 24598-09-17 23:45 G 10705555.39 10705555.49 10705555.62 0.0089 0.0066

Neptune 24598-12-15 02:52 G 10705643.49 10705643.62 10705643.75 0.0089 0.0057

Neptune 24599-03-13 05:31 G 10705731.59 10705731.73 10705731.88 0.0089 0.0047

Neptune 24599-06-09 08:09 G 10705819.69 10705819.84 10705820.00 0.0089 0.0039

Neptune 24599-09-05 11:02 G 10705907.80 10705907.96 10705908.12 0.0089 0.0029

Neptune 24599-12-02 13:40 G 10705995.91 10705996.07 10705996.24 0.0089 0.0020

Neptune 24600-02-28 16:33 G 10706084.02 10706084.19 10706084.36 0.0089 0.0011

Neptune 24600-05-27 19:12 G 10706172.13 10706172.30 10706172.47 0.0089 0.0002

Neptune 24600-08-23 21:50 G 10706260.24 10706260.41 10706260.58 0.0089 0.0007

Neptune 24600-11-20 00:28 G 10706348.35 10706348.52 10706348.69 0.0089 0.0015

Mars 24600-11-23 15:50 G 10706352.02 10706352.16 10706352.30 0.1874 0.0160

Neptune 24601-02-16 03:07 G 10706436.47 10706436.63 10706436.80 0.0089 0.0024

Neptune 24601-05-15 05:31 G 10706524.58 10706524.73 10706524.90 0.0089 0.0034

Neptune 24601-08-11 08:09 G 10706612.70 10706612.84 10706613.00 0.0089 0.0042

Mars 24601-09-15 03:07 G 10706647.60 10706647.63 10706647.67 0.1677 0.1612

Neptune 24601-11-07 11:02 G 10706700.82 10706700.96 10706701.10 0.0089 0.0051

Jupiter 24601-12-08 04:04 G 10706731.61 10706731.67 10706731.74 0.0511 0.0447

Neptune 24602-02-03 13:26 G 10706788.94 10706789.06 10706789.19 0.0089 0.0059

Jupiter 24602-03-07 12:43 G 10706820.89 10706821.03 10706821.16 0.0507 0.0132

Neptune 24602-05-02 15:50 G 10706877.07 10706877.16 10706877.28 0.0089 0.0068

Moon 24602-07-27 00:00 G 10706962.40 10706962.50 10706962.61 0.2652 0.1781

Earth 24602-07-27 00:57 G 10706962.43 10706962.54 10706962.65 0.2657 0.1649 *

Neptune 24602-07-29 18:43 G 10706965.20 10706965.28 10706965.36 0.0089 0.0077

Neptune 24602-10-25 21:07 G 10707053.34 10707053.38 10707053.43 0.0089 0.0085

Saturn 24604-05-07 07:40 G 10707612.73 10707612.82 10707612.91 0.0268 0.0200

Saturn 24604-08-03 19:40 G 10707701.19 10707701.32 10707701.46 0.0268 0.0106

Saturn 24604-10-31 08:09 G 10707789.69 10707789.84 10707789.98 0.0269 0.0010

Moon 24605-01-25 09:07 G 10707875.78 10707875.88 10707875.98 0.2672 0.1424

Earth 24605-01-25 10:04 G 10707875.82 10707875.92 10707876.02 0.2674 0.1327 *

Saturn 24605-01-27 20:38 G 10707878.22 10707878.36 10707878.50 0.0269 0.0090

Saturn 24605-04-26 09:36 G 10707966.80 10707966.90 10707967.00 0.0269 0.0191

Jupiter 24608-05-06 23:31 G 10709073.35 10709073.48 10709073.61 0.0518 0.0322

Jupiter 24608-08-05 01:12 G 10709163.46 10709163.55 10709163.63 0.0522 0.0440

Mars 24610-04-15 18:28 G 10709782.16 10709782.27 10709782.38 0.1866 0.1213

Venus 24610-07-13 23:02 G 10709871.35 10709871.46 10709871.57 0.3692 0.1839

Venus 24612-01-24 19:26 G 10710431.26 10710431.31 10710431.36 0.3679 0.3298

Uranus 24612-12-05 18:43 G 10710747.22 10710747.28 10710747.37 0.0133 0.0119

Mars 24613-01-11 02:52 G 10710783.51 10710783.62 10710783.73 0.1659 0.0937

Uranus 24613-03-04 00:00 G 10710835.40 10710835.50 10710835.62 0.0133 0.0098

Uranus 24613-05-31 05:16 G 10710923.59 10710923.72 10710923.86 0.0133 0.0078

Uranus 24613-08-27 10:33 G 10711011.79 10711011.94 10711012.09 0.0133 0.0057

Uranus 24613-11-23 15:36 G 10711099.99 10711100.15 10711100.31 0.0133 0.0037

Jupiter 24613-12-24 16:19 G 10711131.04 10711131.18 10711131.32 0.0508 0.0011

Uranus 24614-02-19 20:38 G 10711188.20 10711188.36 10711188.53 0.0133 0.0017

Uranus 24614-05-19 01:40 G 10711276.41 10711276.57 10711276.74 0.0133 0.0003

Uranus 24614-08-15 06:43 G 10711364.62 10711364.78 10711364.94 0.0133 0.0022

Uranus 24614-11-11 11:31 G 10711452.83 10711452.98 10711453.14 0.0133 0.0042

Uranus 24615-02-07 16:19 G 10711541.04 10711541.18 10711541.33 0.0133 0.0062

Uranus 24615-05-06 21:07 G 10711629.26 10711629.38 10711629.52 0.0133 0.0081

Moon 24615-07-30 01:26 G 10711713.42 10711713.56 10711713.70 0.2658 0.0454

Earth 24615-07-30 02:38 G 10711713.48 10711713.61 10711713.75 0.2657 0.0643 *

Uranus 24615-08-03 01:55 G 10711717.49 10711717.58 10711717.70 0.0133 0.0100

Uranus 24615-10-30 06:43 G 10711805.72 10711805.78 10711805.86 0.0133 0.0119

Venus 24616-01-27 20:09 G 10711895.22 10711895.34 10711895.46 0.3692 0.0244

Venus 24617-08-09 15:07 G 10712455.02 10712455.13 10712455.24 0.3678 0.1505

Moon 24618-01-28 04:33 G 10712626.58 10712626.69 10712626.81 0.2678 0.0124

Earth 24618-01-28 05:16 G 10712626.60 10712626.72 10712626.84 0.2674 0.0241 *

Saturn 24618-12-13 06:00 G 10712945.65 10712945.75 10712945.86 0.0291 0.0225

Saturn 24619-03-12 02:09 G 10713034.43 10713034.59 10713034.75 0.0291 0.0078

Saturn 24619-06-08 21:21 G 10713123.23 10713123.39 10713123.55 0.0291 0.0066

Saturn 24619-09-05 16:19 G 10713212.07 10713212.18 10713212.29 0.0290 0.0205

Jupiter 24620-02-23 22:48 G 10713383.42 10713383.45 10713383.48 0.0518 0.0509

Jupiter 24620-05-24 00:57 G 10713473.40 10713473.54 10713473.68 0.0521 0.0260

Venus 24621-08-12 17:02 G 10713919.12 10713919.21 10713919.31 0.3693 0.2228

Mars 24622-06-03 11:02 G 10714213.83 10714213.96 10714214.09 0.1665 0.0126

Venus 24623-02-23 11:16 G 10714478.85 10714478.97 10714479.09 0.3678 0.0378

Jupiter 24625-10-12 19:26 G 10715441.18 10715441.31 10715441.44 0.0508 0.0159

Jupiter 24626-01-10 04:19 G 10715530.61 10715530.68 10715530.76 0.0505 0.0423

Venus 24628-09-08 07:40 G 10716502.72 10716502.82 10716502.91 0.3677 0.2323

Mars 24631-01-02 12:57 G 10717348.98 10717349.04 10717349.11 0.1882 0.1653

Moon 24631-01-31 00:28 G 10717377.44 10717377.52 10717377.61 0.2681 0.1860

Earth 24631-01-31 00:57 G 10717377.45 10717377.54 10717377.62 0.2674 0.1837 *

Mars 24631-10-24 19:12 G 10717644.18 10717644.30 10717644.42 0.1671 0.0687

Jupiter 24632-03-12 00:28 G 10717783.36 10717783.52 10717783.68 0.0521 0.0075

Saturn 24633-09-24 09:21 G 10718344.83 10718344.89 10718344.97 0.0269 0.0231

Saturn 24633-12-21 21:36 G 10718433.28 10718433.40 10718433.52 0.0269 0.0136

Saturn 24634-03-20 09:50 G 10718521.77 10718521.91 10718522.05 0.0269 0.0040

Saturn 24634-06-16 22:19 G 10718610.29 10718610.43 10718610.57 0.0269 0.0059

Saturn 24634-09-13 11:02 G 10718698.85 10718698.96 10718699.08 0.0269 0.0160

Saturn 24634-12-11 00:00 G 10718787.48 10718787.50 10718787.54 0.0270 0.0263

Jupiter 24637-07-31 22:48 G 10719751.34 10719751.45 10719751.56 0.0509 0.0305

Jupiter 24637-10-29 07:26 G 10719840.70 10719840.81 10719840.93 0.0506 0.0275

Moon 24638-01-23 19:26 G 10719927.29 10719927.31 10719927.32 0.2669 0.2643

Earth 24638-01-23 19:55 G 10719927.29 10719927.33 10719927.36 0.2674 0.2527 *

Mars 24640-05-24 15:50 G 10720779.02 10720779.16 10720779.30 0.1874 0.0293

Mars 24641-03-16 03:21 G 10721074.59 10721074.64 10721074.70 0.1677 0.1493

Jupiter 24643-12-29 22:48 G 10722093.29 10722093.45 10722093.61 0.0519 0.0125

Saturn 24648-05-01 08:09 G 10723677.76 10723677.84 10723677.92 0.0292 0.0254

Moon 24648-07-27 06:00 G 10723764.62 10723764.75 10723764.87 0.2653 0.1260

Earth 24648-07-27 06:57 G 10723764.66 10723764.79 10723764.92 0.2657 0.1176 *

Saturn 24648-07-29 04:04 G 10723766.52 10723766.67 10723766.83 0.0292 0.0106

Saturn 24648-10-25 23:45 G 10723855.32 10723855.49 10723855.65 0.0291 0.0040

Saturn 24649-01-22 18:43 G 10723944.15 10723944.28 10723944.40 0.0291 0.0179

Jupiter 24649-05-20 02:09 G 10724061.53 10724061.59 10724061.65 0.0511 0.0451

Jupiter 24649-08-17 10:48 G 10724150.81 10724150.95 10724151.08 0.0507 0.0128

Mars 24649-10-14 18:57 G 10724209.18 10724209.29 10724209.41 0.1867 0.1041

Moon 24651-01-26 14:09 G 10724677.99 10724678.09 10724678.20 0.2672 0.1106

Earth 24651-01-26 15:07 G 10724678.02 10724678.13 10724678.23 0.2674 0.1006 *

Mars 24652-07-12 03:07 G 10725210.53 10725210.63 10725210.73 0.1659 0.1063

Uranus 24655-03-03 05:02 G 10726174.70 10726174.71 10726174.75 0.0145 0.0144

Uranus 24655-05-30 09:50 G 10726262.84 10726262.91 10726263.00 0.0145 0.0121

Uranus 24655-08-26 14:24 G 10726351.00 10726351.10 10726351.22 0.0145 0.0099

Jupiter 24655-10-17 21:36 G 10726403.27 10726403.40 10726403.53 0.0518 0.0320

Uranus 24655-11-22 19:12 G 10726439.18 10726439.30 10726439.43 0.0145 0.0076

Jupiter 24656-01-15 23:16 G 10726493.38 10726493.47 10726493.55 0.0522 0.0441

Uranus 24656-02-19 00:00 G 10726527.37 10726527.50 10726527.64 0.0145 0.0053

Uranus 24656-05-17 04:48 G 10726615.56 10726615.70 10726615.85 0.0146 0.0030

Uranus 24656-08-13 09:36 G 10726703.75 10726703.90 10726704.05 0.0146 0.0007

Uranus 24656-11-09 14:24 G 10726791.96 10726792.10 10726792.25 0.0146 0.0018

Uranus 24657-02-05 19:12 G 10726880.17 10726880.30 10726880.45 0.0146 0.0042

Uranus 24657-05-05 00:14 G 10726968.38 10726968.51 10726968.65 0.0146 0.0065

Uranus 24657-08-01 05:16 G 10727056.60 10727056.72 10727056.84 0.0146 0.0089

Uranus 24657-10-28 10:04 G 10727144.84 10727144.92 10727145.03 0.0146 0.0114

Uranus 24658-01-24 15:21 G 10727233.10 10727233.14 10727233.19 0.0146 0.0138

Jupiter 24661-06-05 14:24 G 10728460.96 10728461.10 10728461.23 0.0508 0.0020

Moon 24661-07-30 07:12 G 10728515.67 10728515.80 10728515.93 0.2658 0.0916

Earth 24661-07-30 08:38 G 10728515.73 10728515.86 10728515.99 0.2657 0.1088 *

Venus 24661-08-04 00:28 G 10728520.47 10728520.52 10728520.58 0.3691 0.3297

Mars 24661-12-02 11:02 G 10728640.83 10728640.96 10728641.10 0.1665 0.0248

Saturn 24663-02-11 12:28 G 10729076.98 10729077.02 10729077.07 0.0268 0.0251

Saturn 24663-05-11 00:28 G 10729165.41 10729165.52 10729165.64 0.0268 0.0157

Saturn 24663-08-07 12:43 G 10729253.89 10729254.03 10729254.17 0.0268 0.0062

Saturn 24663-11-04 01:12 G 10729342.41 10729342.55 10729342.70 0.0269 0.0037

Moon 24664-01-29 09:36 G 10729428.79 10729428.90 10729429.02 0.2679 0.0502

Earth 24664-01-29 10:19 G 10729428.82 10729428.93 10729429.05 0.2674 0.0564 *

Saturn 24664-01-31 13:55 G 10729430.96 10729431.08 10729431.21 0.0269 0.0136

Saturn 24664-04-29 02:52 G 10729519.56 10729519.62 10729519.69 0.0269 0.0238

Venus 24667-02-17 22:04 G 10730544.30 10730544.42 10730544.54 0.3692 0.1146

Jupiter 24667-11-03 22:19 G 10730803.28 10730803.43 10730803.57 0.0521 0.0250

Venus 24668-08-30 18:00 G 10731104.17 10731104.25 10731104.33 0.3679 0.2708

Mars 24670-07-03 13:12 G 10731776.01 10731776.05 10731776.09 0.1882 0.1795

Mars 24671-04-24 19:12 G 10732071.18 10732071.30 10732071.43 0.1671 0.0574

Venus 24672-09-02 19:12 G 10732568.18 10732568.30 10732568.42 0.3693 0.0913

Jupiter 24673-03-24 18:00 G 10732771.12 10732771.25 10732771.38 0.0509 0.0155

Jupiter 24673-06-22 02:52 G 10732860.55 10732860.62 10732860.70 0.0505 0.0429

Venus 24674-03-16 13:55 G 10733127.96 10733128.08 10733128.19 0.3678 0.0900

Moon 24677-01-31 05:45 G 10734179.67 10734179.74 10734179.81 0.2681 0.2102

Earth 24677-01-31 06:00 G 10734179.68 10734179.75 10734179.82 0.2674 0.2169 *

Saturn 24677-12-16 02:52 G 10734498.49 10734498.62 10734498.77 0.0291 0.0154

Saturn 24678-03-14 22:48 G 10734587.28 10734587.45 10734587.61 0.0291 0.0011

Venus 24678-03-19 15:50 G 10734592.09 10734592.16 10734592.24 0.3693 0.2873

Saturn 24678-06-11 17:45 G 10734676.10 10734676.24 10734676.39 0.0291 0.0134

Saturn 24678-09-08 12:28 G 10734764.96 10734765.02 10734765.07 0.0290 0.0271

Neptune 24679-01-03 20:38 G 10734882.35 10734882.36 10734882.41 0.0088 0.0086

Neptune 24679-04-01 22:19 G 10734970.38 10734970.43 10734970.51 0.0088 0.0079

Neptune 24679-06-29 00:14 G 10735058.43 10735058.51 10735058.59 0.0088 0.0072

Jupiter 24679-08-22 21:50 G 10735113.25 10735113.41 10735113.58 0.0520 0.0068

Neptune 24679-09-25 01:55 G 10735146.48 10735146.58 10735146.68 0.0088 0.0065

Venus 24679-09-30 10:04 G 10735151.80 10735151.92 10735152.03 0.3678 0.1017

Mars 24679-11-23 16:33 G 10735206.05 10735206.19 10735206.32 0.1875 0.0471

Neptune 24679-12-22 03:21 G 10735234.54 10735234.64 10735234.76 0.0088 0.0058

Neptune 24680-03-19 05:02 G 10735322.60 10735322.71 10735322.83 0.0088 0.0050

Neptune 24680-06-15 06:43 G 10735410.66 10735410.78 10735410.91 0.0088 0.0043

Neptune 24680-09-11 08:24 G 10735498.72 10735498.85 10735498.99 0.0088 0.0036

Mars 24680-09-14 03:36 G 10735501.57 10735501.65 10735501.72 0.1677 0.1384

Neptune 24680-12-08 10:04 G 10735586.79 10735586.92 10735587.06 0.0088 0.0029

Neptune 24681-03-06 11:45 G 10735674.85 10735674.99 10735675.13 0.0088 0.0021

Neptune 24681-06-02 13:26 G 10735762.92 10735763.06 10735763.21 0.0088 0.0014

Neptune 24681-08-29 15:07 G 10735850.99 10735851.13 10735851.28 0.0088 0.0007

Neptune 24681-11-25 16:48 G 10735939.06 10735939.20 10735939.35 0.0088 0.0003

Neptune 24682-02-21 18:43 G 10736027.13 10736027.28 10736027.42 0.0088 0.0008

Neptune 24682-05-20 20:24 G 10736115.20 10736115.35 10736115.49 0.0088 0.0016

Neptune 24682-08-16 21:50 G 10736203.28 10736203.41 10736203.56 0.0088 0.0024

Neptune 24682-11-12 23:45 G 10736291.35 10736291.49 10736291.63 0.0088 0.0030

Neptune 24683-02-09 01:26 G 10736379.43 10736379.56 10736379.70 0.0088 0.0038

Neptune 24683-05-08 03:07 G 10736467.51 10736467.63 10736467.76 0.0088 0.0045

Neptune 24683-08-04 04:48 G 10736555.59 10736555.70 10736555.83 0.0088 0.0053

Neptune 24683-10-31 06:43 G 10736643.68 10736643.78 10736643.89 0.0088 0.0060

Moon 24684-01-25 00:14 G 10736729.45 10736729.51 10736729.57 0.2669 0.2233

Earth 24684-01-25 00:43 G 10736729.47 10736729.53 10736729.60 0.2674 0.2217 *

Neptune 24684-01-27 08:09 G 10736731.76 10736731.84 10736731.95 0.0088 0.0069

Neptune 24684-04-24 10:19 G 10736819.86 10736819.93 10736820.00 0.0088 0.0075

Neptune 24684-07-21 11:45 G 10736907.96 10736907.99 10736908.05 0.0088 0.0083

Jupiter 24685-01-10 21:21 G 10737081.28 10737081.39 10737081.50 0.0509 0.0300

Jupiter 24685-04-10 06:00 G 10737170.64 10737170.75 10737170.87 0.0506 0.0280

Venus 24685-04-15 06:28 G 10737175.70 10737175.77 10737175.84 0.3677 0.2991

Mars 24689-04-14 19:12 G 10738636.17 10738636.30 10738636.42 0.1866 0.0905

Jupiter 24691-06-10 21:21 G 10739423.22 10739423.39 10739423.55 0.0520 0.0119

Mars 24692-01-11 03:07 G 10739637.54 10739637.63 10739637.73 0.1659 0.1177

Saturn 24692-09-27 02:09 G 10739897.49 10739897.59 10739897.69 0.0269 0.0190

Saturn 24692-12-24 14:09 G 10739985.96 10739986.09 10739986.23 0.0269 0.0095

Saturn 24693-03-23 02:38 G 10740074.46 10740074.61 10740074.76 0.0269 0.0003

Saturn 24693-06-19 15:07 G 10740163.00 10740163.13 10740163.27 0.0269 0.0103

Saturn 24693-09-16 04:04 G 10740251.58 10740251.67 10740251.77 0.0269 0.0204

Moon 24694-07-28 11:45 G 10740566.85 10740566.99 10740567.12 0.2655 0.0944

Earth 24694-07-28 12:57 G 10740566.90 10740567.04 10740567.17 0.2657 0.0714 *

Pluto 24694-08-22 08:24 G 10740591.82 10740591.85 10740591.89 0.0070 0.0067

Pluto 24694-11-18 08:52 G 10740679.81 10740679.87 10740679.95 0.0070 0.0058

Pluto 24695-02-14 09:36 G 10740767.81 10740767.90 10740768.00 0.0070 0.0048

Pluto 24695-05-13 10:04 G 10740855.82 10740855.92 10740856.04 0.0070 0.0039

Pluto 24695-08-09 10:48 G 10740943.83 10740943.95 10740944.07 0.0070 0.0029

Pluto 24695-11-05 11:16 G 10741031.85 10741031.97 10741032.10 0.0070 0.0020

Pluto 24696-02-01 12:00 G 10741119.87 10741120.00 10741120.13 0.0070 0.0010

Pluto 24696-04-29 12:43 G 10741207.89 10741208.03 10741208.16 0.0070 0.0002

Pluto 24696-07-26 13:12 G 10741295.92 10741296.05 10741296.18 0.0071 0.0009

Uranus 24696-09-28 21:07 G 10741360.38 10741360.38 10741360.41 0.0133 0.0133

Pluto 24696-10-22 13:40 G 10741383.95 10741384.07 10741384.20 0.0071 0.0019

Jupiter 24696-10-30 00:57 G 10741391.47 10741391.54 10741391.60 0.0510 0.0445

Uranus 24696-12-26 02:38 G 10741448.52 10741448.61 10741448.70 0.0133 0.0111

Pluto 24697-01-18 14:24 G 10741471.98 10741472.10 10741472.22 0.0071 0.0029

Moon 24697-01-26 19:12 G 10741480.19 10741480.30 10741480.41 0.2674 0.0823

Earth 24697-01-26 19:55 G 10741480.22 10741480.33 10741480.45 0.2674 0.0687 *

Jupiter 24697-01-27 09:21 G 10741480.75 10741480.89 10741481.02 0.0507 0.0133

Uranus 24697-03-24 07:40 G 10741536.71 10741536.82 10741536.95 0.0133 0.0091

Pluto 24697-04-16 14:52 G 10741560.02 10741560.12 10741560.24 0.0071 0.0039

Uranus 24697-06-20 12:57 G 10741624.91 10741625.04 10741625.19 0.0133 0.0071

Pluto 24697-07-13 15:21 G 10741648.06 10741648.14 10741648.25 0.0071 0.0049

Uranus 24697-09-16 18:14 G 10741713.11 10741713.26 10741713.42 0.0133 0.0050

Pluto 24697-10-09 16:04 G 10741736.11 10741736.17 10741736.25 0.0071 0.0059

Uranus 24697-12-13 23:16 G 10741801.31 10741801.47 10741801.64 0.0133 0.0030

Pluto 24698-01-05 16:33 G 10741824.18 10741824.19 10741824.23 0.0071 0.0070

Uranus 24698-03-12 04:19 G 10741889.52 10741889.68 10741889.85 0.0133 0.0010

Uranus 24698-06-08 09:21 G 10741977.73 10741977.89 10741978.06 0.0133 0.0011

Uranus 24698-09-04 14:24 G 10742065.94 10742066.10 10742066.26 0.0133 0.0030

Uranus 24698-12-01 19:12 G 10742154.15 10742154.30 10742154.46 0.0133 0.0050

Uranus 24699-02-28 00:14 G 10742242.37 10742242.51 10742242.65 0.0133 0.0069

Uranus 24699-05-27 05:02 G 10742330.59 10742330.71 10742330.83 0.0133 0.0088

Uranus 24699-08-23 09:36 G 10742418.82 10742418.90 10742419.01 0.0133 0.0108

Uranus 24699-11-19 14:38 G 10742507.07 10742507.11 10742507.16 0.0133 0.0126

Mars 24701-06-03 11:31 G 10743067.85 10743067.98 10743068.11 0.1664 0.0371

Jupiter 24703-03-30 19:40 G 10743733.19 10743733.32 10743733.45 0.0518 0.0316

Jupiter 24703-06-28 21:21 G 10743823.31 10743823.39 10743823.48 0.0522 0.0445

Saturn 24707-05-06 04:19 G 10745230.55 10745230.68 10745230.81 0.0292 0.0188

Moon 24707-08-01 13:12 G 10745317.93 10745318.05 10745318.17 0.2658 0.1400

Earth 24707-08-01 14:38 G 10745317.99 10745318.11 10745318.22 0.2657 0.1545 *

Saturn 24707-08-03 00:00 G 10745319.34 10745319.50 10745319.67 0.0292 0.0042

Saturn 24707-10-30 19:26 G 10745408.16 10745408.31 10745408.46 0.0291 0.0103

Saturn 24708-01-27 13:55 G 10745497.00 10745497.08 10745497.18 0.0291 0.0242

Jupiter 24708-11-16 12:28 G 10745790.88 10745791.02 10745791.16 0.0508 0.0016

Moon 24710-01-30 14:52 G 10746231.01 10746231.12 10746231.23 0.2679 0.0803

Earth 24710-01-30 15:21 G 10746231.03 10746231.14 10746231.25 0.2674 0.0897 *

Mars 24710-10-24 19:26 G 10746498.19 10746498.31 10746498.44 0.1670 0.0454

Jupiter 24715-01-16 18:14 G 10748043.24 10748043.26 10748043.29 0.0517 0.0511

Jupiter 24715-04-16 20:38 G 10748133.22 10748133.36 10748133.50 0.0521 0.0256

Venus 24718-03-11 23:45 G 10749193.40 10749193.49 10749193.57 0.3692 0.2582

Mars 24719-05-25 16:48 G 10749633.07 10749633.20 10749633.33 0.1875 0.0619

Mars 24720-03-16 03:36 G 10749928.57 10749928.65 10749928.74 0.1677 0.1269

Jupiter 24720-09-04 16:04 G 10750101.04 10750101.17 10750101.30 0.0509 0.0158

Jupiter 24720-12-03 00:57 G 10750190.47 10750190.54 10750190.62 0.0506 0.0428

Saturn 24722-02-15 05:02 G 10750629.63 10750629.71 10750629.80 0.0268 0.0211

Saturn 24722-05-14 17:16 G 10750718.09 10750718.22 10750718.35 0.0268 0.0116

Saturn 24722-08-11 05:31 G 10750806.58 10750806.73 10750806.87 0.0268 0.0020

Saturn 24722-11-07 18:00 G 10750895.11 10750895.25 10750895.39 0.0269 0.0079

Earth 24723-02-02 11:02 G 10750981.92 10750981.96 10750982.00 0.2674 0.2502

Moon 24723-02-02 11:02 G 10750981.93 10750981.96 10750982.00 0.2681 0.2546 *

Saturn 24723-02-04 06:43 G 10750983.68 10750983.78 10750983.89 0.0269 0.0180

Venus 24723-09-25 21:07 G 10751217.25 10751217.38 10751217.50 0.3692 0.0474

Venus 24725-04-07 16:33 G 10751777.09 10751777.19 10751777.29 0.3679 0.2113

Jupiter 24727-02-02 19:26 G 10752443.15 10752443.31 10752443.48 0.0520 0.0062

Earth 24727-07-27 16:48 G 10752618.17 10752618.20 10752618.23 0.2658 0.2574

Mars 24728-10-14 19:40 G 10753063.19 10753063.32 10753063.44 0.1867 0.0741

Venus 24729-04-10 18:00 G 10753241.14 10753241.25 10753241.36 0.3693 0.1575

Moon 24730-01-26 05:16 G 10753531.64 10753531.72 10753531.79 0.2669 0.2053

Earth 24730-01-26 05:45 G 10753531.66 10753531.74 10753531.82 0.2674 0.1898 *

Venus 24730-10-22 12:28 G 10753800.90 10753801.02 10753801.14 0.3678 0.0276

Mars 24731-07-13 03:21 G 10754064.56 10754064.64 10754064.72 0.1658 0.1297

Jupiter 24732-06-23 19:55 G 10754411.22 10754411.33 10754411.44 0.0510 0.0296

Jupiter 24732-09-21 04:33 G 10754500.58 10754500.69 10754500.81 0.0506 0.0286

Venus 24734-10-25 14:38 G 10755265.08 10755265.11 10755265.15 0.3693 0.3505

Venus 24736-05-07 08:38 G 10755824.76 10755824.86 10755824.97 0.3678 0.1663

Saturn 24736-09-22 03:07 G 10755962.53 10755962.63 10755962.73 0.0291 0.0237

Saturn 24736-12-19 23:02 G 10756051.30 10756051.46 10756051.62 0.0291 0.0088

Saturn 24737-03-18 18:28 G 10756140.11 10756140.27 10756140.43 0.0291 0.0056

Saturn 24737-06-15 13:26 G 10756228.94 10756229.06 10756229.18 0.0291 0.0196

Jupiter 24738-11-21 18:57 G 10756753.13 10756753.29 10756753.45 0.0519 0.0123

Uranus 24739-03-24 13:12 G 10756876.01 10756876.05 10756876.11 0.0145 0.0134

Uranus 24739-06-20 18:00 G 10756964.16 10756964.25 10756964.34 0.0145 0.0112

Uranus 24739-09-16 22:33 G 10757052.33 10757052.44 10757052.56 0.0145 0.0089

Uranus 24739-12-14 03:21 G 10757140.51 10757140.64 10757140.77 0.0145 0.0067

Uranus 24740-03-11 08:09 G 10757228.70 10757228.84 10757228.98 0.0145 0.0044

Uranus 24740-06-07 12:57 G 10757316.89 10757317.04 10757317.18 0.0145 0.0021

Moon 24740-07-29 17:31 G 10757369.09 10757369.23 10757369.37 0.2656 0.0327

Earth 24740-07-29 18:57 G 10757369.14 10757369.29 10757369.43 0.2657 0.0261 *

Uranus 24740-09-03 17:45 G 10757405.09 10757405.24 10757405.39 0.0145 0.0004

Uranus 24740-11-30 22:33 G 10757493.29 10757493.44 10757493.59 0.0146 0.0026

Mars 24740-12-02 11:31 G 10757494.85 10757494.98 10757495.11 0.1664 0.0477

Uranus 24741-02-27 03:21 G 10757581.50 10757581.64 10757581.78 0.0146 0.0050

Uranus 24741-05-26 08:09 G 10757669.72 10757669.84 10757669.98 0.0146 0.0075

Uranus 24741-08-22 13:12 G 10757757.95 10757758.05 10757758.17 0.0146 0.0098

Uranus 24741-11-18 18:14 G 10757846.19 10757846.26 10757846.35 0.0146 0.0123

Venus 24741-11-21 05:16 G 10757848.71 10757848.72 10757848.73 0.3677 0.3657

Moon 24743-01-29 00:14 G 10758282.40 10758282.51 10758282.63 0.2676 0.0413

Earth 24743-01-29 00:57 G 10758282.43 10758282.54 10758282.66 0.2674 0.0371 *

Jupiter 24744-04-11 23:31 G 10758721.42 10758721.48 10758721.55 0.0510 0.0438

Jupiter 24744-07-10 07:55 G 10758810.70 10758810.83 10758810.97 0.0507 0.0140

Mars 24750-04-24 19:40 G 10760925.19 10760925.32 10760925.45 0.1671 0.0339

Jupiter 24750-09-09 18:14 G 10761063.13 10761063.26 10761063.39 0.0519 0.0309

Jupiter 24750-12-08 19:55 G 10761153.26 10761153.33 10761153.42 0.0522 0.0456

Saturn 24751-07-05 06:28 G 10761361.71 10761361.77 10761361.82 0.0268 0.0246

Saturn 24751-10-01 18:14 G 10761450.15 10761450.26 10761450.38 0.0268 0.0152

Saturn 24751-12-29 06:28 G 10761538.63 10761538.77 10761538.91 0.0269 0.0056

Saturn 24752-03-26 18:57 G 10761627.15 10761627.29 10761627.43 0.0269 0.0042

Saturn 24752-06-23 07:40 G 10761715.70 10761715.82 10761715.94 0.0269 0.0142

Saturn 24752-09-19 20:24 G 10761804.30 10761804.35 10761804.42 0.0269 0.0245

Moon 24753-08-01 19:12 G 10762120.20 10762120.30 10762120.40 0.2659 0.1801

Earth 24753-08-01 20:24 G 10762120.26 10762120.35 10762120.44 0.2657 0.1989 *

Moon 24756-01-31 19:55 G 10763033.22 10763033.33 10763033.44 0.2679 0.1134

Earth 24756-01-31 20:24 G 10763033.25 10763033.35 10763033.46 0.2674 0.1224 *

Jupiter 24756-04-28 11:31 G 10763120.84 10763120.98 10763121.11 0.0508 0.0015

Mars 24758-11-23 17:02 G 10764060.08 10764060.21 10764060.33 0.1875 0.0765

Mars 24759-09-15 03:50 G 10764355.57 10764355.66 10764355.76 0.1676 0.1147

Jupiter 24762-06-28 16:48 G 10765373.17 10765373.20 10765373.23 0.0517 0.0504

Jupiter 24762-09-26 18:57 G 10765463.15 10765463.29 10765463.44 0.0521 0.0264

Neptune 24762-12-22 16:04 G 10765550.12 10765550.17 10765550.24 0.0089 0.0083

Neptune 24763-03-20 18:43 G 10765638.20 10765638.28 10765638.40 0.0089 0.0074

Neptune 24763-06-16 21:36 G 10765726.30 10765726.40 10765726.53 0.0089 0.0065

Neptune 24763-09-13 00:43 G 10765814.40 10765814.53 10765814.67 0.0089 0.0055

Neptune 24763-12-10 03:21 G 10765902.50 10765902.64 10765902.79 0.0089 0.0046

Neptune 24764-03-07 06:14 G 10765990.61 10765990.76 10765990.92 0.0089 0.0037

Neptune 24764-06-03 08:52 G 10766078.71 10766078.87 10766079.04 0.0089 0.0028

Neptune 24764-08-30 11:31 G 10766166.82 10766166.98 10766167.16 0.0089 0.0020

Neptune 24764-11-26 14:24 G 10766254.93 10766255.10 10766255.27 0.0089 0.0010

Neptune 24765-02-22 17:02 G 10766343.04 10766343.21 10766343.39 0.0089 0.0003

Neptune 24765-05-21 19:55 G 10766431.16 10766431.33 10766431.50 0.0089 0.0008

Neptune 24765-08-17 22:19 G 10766519.27 10766519.43 10766519.61 0.0089 0.0017

Neptune 24765-11-14 00:57 G 10766607.39 10766607.54 10766607.71 0.0089 0.0026

Saturn 24766-02-09 03:21 G 10766694.60 10766694.64 10766694.70 0.0292 0.0276

Neptune 24766-02-10 03:50 G 10766695.50 10766695.66 10766695.82 0.0089 0.0035

Saturn 24766-05-08 23:31 G 10766783.34 10766783.48 10766783.64 0.0292 0.0127

Neptune 24766-05-09 06:14 G 10766783.62 10766783.76 10766783.92 0.0089 0.0044 *

Neptune 24766-08-05 08:52 G 10766871.74 10766871.87 10766872.02 0.0089 0.0052

Saturn 24766-08-05 19:26 G 10766872.14 10766872.31 10766872.47 0.0292 0.0020

Neptune 24766-11-01 11:16 G 10766959.87 10766959.97 10766960.11 0.0089 0.0062

Saturn 24766-11-02 14:24 G 10766960.97 10766961.10 10766961.24 0.0291 0.0162

Neptune 24767-01-28 14:09 G 10767047.99 10767048.09 10767048.20 0.0089 0.0070

Neptune 24767-04-26 16:33 G 10767136.13 10767136.19 10767136.28 0.0089 0.0079

Neptune 24767-07-23 18:57 G 10767224.28 10767224.29 10767224.35 0.0089 0.0088

Jupiter 24768-02-15 14:38 G 10767430.98 10767431.11 10767431.24 0.0509 0.0157

Mars 24768-04-14 19:55 G 10767490.20 10767490.33 10767490.46 0.1867 0.0579

Jupiter 24768-05-14 23:31 G 10767520.41 10767520.48 10767520.55 0.0506 0.0429

Mars 24771-01-11 03:36 G 10768491.58 10768491.65 10768491.72 0.1658 0.1419

Moon 24773-07-27 21:50 G 10769420.33 10769420.41 10769420.50 0.2653 0.2139

Earth 24773-07-27 22:48 G 10769420.36 10769420.45 10769420.54 0.2658 0.2104 *

Jupiter 24774-07-15 18:14 G 10769773.10 10769773.26 10769773.42 0.0520 0.0073

Venus 24774-10-16 22:48 G 10769866.34 10769866.45 10769866.55 0.3692 0.1879

Moon 24776-01-27 10:04 G 10770333.83 10770333.92 10770334.01 0.2670 0.1609

Earth 24776-01-27 10:48 G 10770333.86 10770333.95 10770334.04 0.2674 0.1585 *

Venus 24776-04-28 19:26 G 10770426.26 10770426.31 10770426.36 0.3679 0.3301

Jupiter 24779-12-04 18:14 G 10771741.15 10771741.26 10771741.37 0.0510 0.0297

Jupiter 24780-03-03 02:52 G 10771830.51 10771830.62 10771830.74 0.0507 0.0286

Venus 24780-05-01 19:55 G 10771890.21 10771890.33 10771890.45 0.3693 0.0224

Mars 24780-06-02 11:45 G 10771921.86 10771921.99 10771922.11 0.1664 0.0600

Pluto 24780-10-02 00:28 G 10772043.43 10772043.52 10772043.61 0.0074 0.0065

Uranus 24780-10-20 05:02 G 10772061.66 10772061.71 10772061.78 0.0133 0.0124

Saturn 24780-11-21 09:21 G 10772093.88 10772093.89 10772093.90 0.0268 0.0266

Pluto 24780-12-29 02:38 G 10772131.48 10772131.61 10772131.78 0.0074 0.0049

Uranus 24781-01-16 10:33 G 10772149.84 10772149.94 10772150.05 0.0133 0.0103

Saturn 24781-02-17 21:07 G 10772182.28 10772182.38 10772182.50 0.0268 0.0174

Pluto 24781-03-27 05:16 G 10772219.56 10772219.72 10772219.91 0.0074 0.0032

Uranus 24781-04-14 15:36 G 10772238.03 10772238.15 10772238.29 0.0133 0.0083

Saturn 24781-05-17 09:21 G 10772270.75 10772270.89 10772271.03 0.0268 0.0078

Pluto 24781-06-23 08:09 G 10772307.65 10772307.84 10772308.04 0.0073 0.0015

Uranus 24781-07-11 20:52 G 10772326.23 10772326.37 10772326.52 0.0133 0.0062

Saturn 24781-08-13 21:50 G 10772359.26 10772359.41 10772359.55 0.0268 0.0020

Pluto 24781-09-19 10:48 G 10772395.75 10772395.95 10772396.15 0.0073 0.0002

Uranus 24781-10-08 01:55 G 10772414.43 10772414.58 10772414.75 0.0133 0.0042

Saturn 24781-11-10 10:19 G 10772447.80 10772447.93 10772448.06 0.0268 0.0118

Venus 24781-11-12 15:07 G 10772450.02 10772450.13 10772450.24 0.3679 0.1520

Pluto 24781-12-16 12:57 G 10772483.86 10772484.04 10772484.24 0.0073 0.0019

Uranus 24782-01-04 07:12 G 10772502.64 10772502.80 10772502.96 0.0133 0.0022

Saturn 24782-02-06 23:02 G 10772536.38 10772536.46 10772536.55 0.0269 0.0220

Pluto 24782-03-14 15:36 G 10772571.98 10772572.15 10772572.33 0.0073 0.0035

Uranus 24782-04-02 12:14 G 10772590.84 10772591.01 10772591.18 0.0133 0.0002

Pluto 24782-06-10 17:45 G 10772660.12 10772660.24 10772660.40 0.0073 0.0051

Uranus 24782-06-29 17:16 G 10772679.06 10772679.22 10772679.38 0.0133 0.0018

Pluto 24782-09-06 20:09 G 10772748.29 10772748.34 10772748.44 0.0073 0.0067

Uranus 24782-09-25 22:04 G 10772767.27 10772767.42 10772767.58 0.0133 0.0038

Uranus 24782-12-23 03:07 G 10772855.49 10772855.63 10772855.78 0.0133 0.0057

Uranus 24783-03-21 07:55 G 10772943.70 10772943.83 10772943.97 0.0133 0.0077

Uranus 24783-06-17 12:43 G 10773031.93 10773032.03 10773032.15 0.0133 0.0096

Uranus 24783-09-13 17:45 G 10773120.16 10773120.24 10773120.32 0.0133 0.0115

Venus 24785-11-15 16:48 G 10773914.11 10773914.20 10773914.30 0.3693 0.2231

Jupiter 24786-05-03 16:48 G 10774083.04 10774083.20 10774083.37 0.0519 0.0123

Moon 24786-07-30 23:31 G 10774171.33 10774171.48 10774171.62 0.2656 0.0074

Earth 24786-07-31 00:43 G 10774171.39 10774171.53 10774171.67 0.2657 0.0219 *

Venus 24787-05-29 11:02 G 10774473.85 10774473.96 10774474.08 0.3678 0.0387

Moon 24789-01-29 05:16 G 10775084.60 10775084.72 10775084.84 0.2677 0.0215

Earth 24789-01-29 06:00 G 10775084.64 10775084.75 10775084.87 0.2674 0.0070 *

Mars 24789-10-23 19:40 G 10775352.19 10775352.32 10775352.46 0.1670 0.0226

Jupiter 24791-09-22 22:19 G 10776051.36 10776051.43 10776051.50 0.0511 0.0434

Jupiter 24791-12-21 06:43 G 10776140.64 10776140.78 10776140.91 0.0507 0.0146

Venus 24792-12-12 07:26 G 10776497.72 10776497.81 10776497.90 0.3677 0.2304

Saturn 24795-09-25 22:19 G 10777515.30 10777515.43 10777515.57 0.0291 0.0176

Saturn 24795-12-23 18:14 G 10777604.09 10777604.26 10777604.42 0.0291 0.0029

Saturn 24796-03-21 13:26 G 10777692.91 10777693.06 10777693.21 0.0291 0.0114

Saturn 24796-06-18 08:09 G 10777781.77 10777781.84 10777781.92 0.0291 0.0253

Jupiter 24798-02-19 16:04 G 10778393.04 10778393.17 10778393.31 0.0518 0.0309

Jupiter 24798-05-20 18:00 G 10778483.17 10778483.25 10778483.33 0.0522 0.0454

Mars 24798-05-24 17:16 G 10778487.10 10778487.22 10778487.34 0.1875 0.0929

Mars 24799-03-16 03:50 G 10778782.56 10778782.66 10778782.76 0.1676 0.1041

Moon 24799-08-03 01:12 G 10778922.50 10778922.55 10778922.61 0.2661 0.2391

Earth 24799-08-03 02:24 G 10778922.54 10778922.60 10778922.65 0.2657 0.2438 *

Moon 24802-02-01 01:12 G 10779835.45 10779835.55 10779835.64 0.2680 0.1535

Earth 24802-02-01 01:26 G 10779835.47 10779835.56 10779835.66 0.2674 0.1553 *

Jupiter 24803-10-09 10:04 G 10780450.79 10780450.92 10780451.06 0.0508 0.0014

Mars 24807-10-14 20:09 G 10781917.21 10781917.34 10781917.48 0.1867 0.0434

Jupiter 24809-12-08 15:21 G 10782703.10 10782703.14 10782703.19 0.0518 0.0496

Jupiter 24810-03-08 17:45 G 10782793.10 10782793.24 10782793.38 0.0521 0.0274

Saturn 24810-07-07 22:04 G 10782914.34 10782914.42 10782914.51 0.0268 0.0211

Mars 24810-07-12 03:50 G 10782918.61 10782918.66 10782918.70 0.1658 0.1537

Saturn 24810-10-04 10:19 G 10783002.80 10783002.93 10783003.06 0.0268 0.0117

Saturn 24810-12-31 22:33 G 10783091.29 10783091.44 10783091.58 0.0268 0.0021

Saturn 24811-03-30 11:02 G 10783179.82 10783179.96 10783180.10 0.0269 0.0079

Saturn 24811-06-26 23:45 G 10783268.38 10783268.49 10783268.60 0.0269 0.0179

Jupiter 24815-07-28 13:40 G 10784760.94 10784761.07 10784761.20 0.0509 0.0142

Jupiter 24815-10-25 22:33 G 10784850.37 10784850.44 10784850.51 0.0505 0.0442

Mars 24817-03-05 22:48 G 10785347.42 10785347.45 10785347.48 0.1859 0.1799

Moon 24819-07-29 03:50 G 10786222.55 10786222.66 10786222.76 0.2654 0.1814

Earth 24819-07-29 04:48 G 10786222.59 10786222.70 10786222.81 0.2658 0.1628 *

Mars 24819-12-02 11:45 G 10786348.87 10786348.99 10786349.11 0.1664 0.0724

Jupiter 24821-12-25 16:48 G 10787103.04 10787103.20 10787103.37 0.0520 0.0085

Moon 24822-01-27 15:07 G 10787136.03 10787136.13 10787136.23 0.2672 0.1419

Earth 24822-01-27 15:50 G 10787136.06 10787136.16 10787136.26 0.2674 0.1258 *

Uranus 24823-04-13 21:07 G 10787577.32 10787577.38 10787577.46 0.0145 0.0126

Uranus 24823-07-11 01:55 G 10787665.48 10787665.58 10787665.68 0.0145 0.0104

Uranus 24823-10-07 06:28 G 10787753.65 10787753.77 10787753.89 0.0145 0.0081

Uranus 24824-01-03 11:16 G 10787841.84 10787841.97 10787842.10 0.0145 0.0058

Uranus 24824-03-31 15:50 G 10787930.02 10787930.16 10787930.31 0.0145 0.0036

Uranus 24824-06-27 20:52 G 10788018.22 10788018.37 10788018.51 0.0145 0.0013

Uranus 24824-09-24 01:40 G 10788106.42 10788106.57 10788106.72 0.0145 0.0012

Uranus 24824-12-21 06:28 G 10788194.62 10788194.77 10788194.91 0.0145 0.0035

Saturn 24825-02-11 22:04 G 10788247.31 10788247.42 10788247.53 0.0292 0.0221

Uranus 24825-03-19 11:16 G 10788282.84 10788282.97 10788283.11 0.0145 0.0059

Saturn 24825-05-11 18:00 G 10788336.09 10788336.25 10788336.42 0.0292 0.0073

Uranus 24825-06-15 16:19 G 10788371.06 10788371.18 10788371.30 0.0145 0.0083

Saturn 24825-08-08 13:40 G 10788424.91 10788425.07 10788425.23 0.0292 0.0073

Uranus 24825-09-11 21:21 G 10788459.29 10788459.39 10788459.49 0.0145 0.0107

Saturn 24825-11-05 08:38 G 10788513.75 10788513.86 10788513.97 0.0291 0.0214

Venus 24825-11-07 00:14 G 10788515.46 10788515.51 10788515.56 0.3691 0.3351

Uranus 24825-12-09 02:09 G 10788547.54 10788547.59 10788547.66 0.0145 0.0131

Jupiter 24827-05-16 16:48 G 10789071.09 10789071.20 10789071.31 0.0510 0.0293

Jupiter 24827-08-14 01:26 G 10789160.45 10789160.56 10789160.68 0.0507 0.0290

Mars 24829-04-23 19:55 G 10789779.20 10789779.33 10789779.46 0.1670 0.0103

Venus 24831-05-23 21:36 G 10790539.29 10790539.40 10790539.52 0.3692 0.1196

Moon 24832-07-31 05:16 G 10790973.58 10790973.72 10790973.86 0.2657 0.0595

Earth 24832-07-31 06:43 G 10790973.64 10790973.78 10790973.92 0.2657 0.0669 *

Venus 24832-12-03 18:00 G 10791099.17 10791099.25 10791099.33 0.3679 0.2724

Jupiter 24833-10-13 15:50 G 10791413.00 10791413.16 10791413.33 0.0519 0.0107

Moon 24835-01-30 10:19 G 10791886.81 10791886.93 10791887.05 0.2677 0.0250

Earth 24835-01-30 11:02 G 10791886.85 10791886.96 10791887.08 0.2674 0.0301 *

Venus 24836-12-06 18:57 G 10792563.17 10792563.29 10792563.41 0.3693 0.0895

Mars 24837-11-22 17:45 G 10792914.13 10792914.24 10792914.35 0.1875 0.1086

Venus 24838-06-19 13:40 G 10793122.96 10793123.07 10793123.19 0.3679 0.0911

Mars 24838-09-14 04:04 G 10793209.56 10793209.67 10793209.78 0.1676 0.0922

Jupiter 24839-03-04 20:24 G 10793381.29 10793381.35 10793381.43 0.0511 0.0434

Jupiter 24839-06-02 05:02 G 10793470.58 10793470.71 10793470.84 0.0508 0.0147

Saturn 24839-11-25 01:12 G 10793646.48 10793646.55 10793646.62 0.0267 0.0232

Saturn 24840-02-21 12:57 G 10793734.92 10793735.04 10793735.17 0.0268 0.0139

Saturn 24840-05-20 01:12 G 10793823.41 10793823.55 10793823.70 0.0268 0.0043

Saturn 24840-08-16 13:40 G 10793911.93 10793912.07 10793912.21 0.0268 0.0055

Saturn 24840-11-13 02:09 G 10794000.48 10794000.59 10794000.72 0.0268 0.0156

Saturn 24841-02-09 15:07 G 10794089.10 10794089.13 10794089.18 0.0269 0.0257

Venus 24842-06-22 15:36 G 10794587.08 10794587.15 10794587.23 0.3693 0.2861

Neptune 24843-10-01 19:55 G 10795053.30 10795053.33 10795053.37 0.0088 0.0084

Neptune 24843-12-28 21:21 G 10795141.34 10795141.39 10795141.47 0.0088 0.0078

Venus 24844-01-03 09:50 G 10795146.79 10795146.91 10795147.03 0.3678 0.0990

Neptune 24844-03-25 23:02 G 10795229.39 10795229.46 10795229.56 0.0088 0.0070

Neptune 24844-06-22 00:43 G 10795317.44 10795317.53 10795317.64 0.0088 0.0063

Neptune 24844-09-18 02:09 G 10795405.50 10795405.59 10795405.72 0.0088 0.0057

Neptune 24844-12-15 04:04 G 10795493.56 10795493.67 10795493.79 0.0088 0.0049

Neptune 24845-03-13 05:45 G 10795581.62 10795581.74 10795581.87 0.0088 0.0041

Neptune 24845-06-09 07:26 G 10795669.68 10795669.81 10795669.95 0.0088 0.0034

Jupiter 24845-08-01 14:24 G 10795722.97 10795723.10 10795723.24 0.0518 0.0304

Neptune 24845-09-05 09:07 G 10795757.74 10795757.88 10795758.02 0.0088 0.0027

Jupiter 24845-10-30 16:19 G 10795813.10 10795813.18 10795813.25 0.0521 0.0458

Neptune 24845-12-02 10:48 G 10795845.81 10795845.95 10795846.09 0.0088 0.0020

Neptune 24846-02-28 12:28 G 10795933.88 10795934.02 10795934.17 0.0088 0.0012

Neptune 24846-05-27 14:09 G 10796021.95 10796022.09 10796022.24 0.0088 0.0005

Neptune 24846-08-23 15:50 G 10796110.02 10796110.16 10796110.31 0.0088 0.0003

Neptune 24846-11-19 17:31 G 10796198.09 10796198.23 10796198.38 0.0088 0.0010

Neptune 24847-02-15 19:12 G 10796286.16 10796286.30 10796286.45 0.0088 0.0017

Mars 24847-04-14 20:38 G 10796344.22 10796344.36 10796344.50 0.1867 0.0277

Neptune 24847-05-14 20:52 G 10796374.24 10796374.37 10796374.52 0.0088 0.0025

Neptune 24847-08-10 22:33 G 10796462.31 10796462.44 10796462.58 0.0088 0.0032

Neptune 24847-11-07 00:28 G 10796550.39 10796550.52 10796550.65 0.0088 0.0039

Moon 24848-02-02 06:28 G 10796637.68 10796637.77 10796637.85 0.2681 0.1802

Earth 24848-02-02 06:28 G 10796637.69 10796637.77 10796637.86 0.2674 0.1880 *

Neptune 24848-02-03 01:55 G 10796638.47 10796638.58 10796638.72 0.0088 0.0047

Neptune 24848-05-01 03:50 G 10796726.55 10796726.66 10796726.78 0.0088 0.0055

Neptune 24848-07-28 05:31 G 10796814.63 10796814.73 10796814.84 0.0088 0.0062

Neptune 24848-10-24 07:26 G 10796902.72 10796902.81 10796902.90 0.0088 0.0070

Neptune 24849-01-20 08:52 G 10796990.81 10796990.87 10796990.95 0.0088 0.0077

Neptune 24849-04-18 10:33 G 10797078.92 10797078.94 10797079.00 0.0088 0.0085

Venus 24849-07-19 06:14 G 10797170.69 10797170.76 10797170.83 0.3677 0.2969

Jupiter 24851-03-21 08:52 G 10797780.73 10797780.87 10797781.01 0.0508 0.0009

Saturn 24854-07-01 20:38 G 10798979.30 10798979.36 10798979.42 0.0292 0.0272

Saturn 24854-09-28 16:48 G 10799068.05 10799068.20 10799068.35 0.0292 0.0122

Saturn 24854-12-26 12:28 G 10799156.86 10799157.02 10799157.19 0.0291 0.0025

Moon 24855-01-26 01:12 G 10799187.52 10799187.55 10799187.59 0.2668 0.2537

Earth 24855-01-26 01:40 G 10799187.53 10799187.57 10799187.61 0.2674 0.2460 *

Saturn 24855-03-25 07:40 G 10799245.69 10799245.82 10799245.95 0.0291 0.0166

Mars 24856-09-03 23:16 G 10799774.41 10799774.47 10799774.54 0.1859 0.1632

Jupiter 24857-05-20 13:40 G 10800033.02 10800033.07 10800033.12 0.0517 0.0491

Jupiter 24857-08-18 16:04 G 10800123.03 10800123.17 10800123.30 0.0521 0.0277

Mars 24859-06-02 12:00 G 10800775.88 10800776.00 10800776.11 0.1664 0.0836

Jupiter 24863-01-07 12:28 G 10802090.89 10802091.02 10802091.16 0.0509 0.0133

Jupiter 24863-04-06 21:21 G 10802180.33 10802180.39 10802180.45 0.0506 0.0452

Uranus 24864-11-09 12:43 G 10802762.96 10802763.03 10802763.12 0.0133 0.0117

Uranus 24865-02-05 18:00 G 10802851.14 10802851.25 10802851.37 0.0133 0.0096

Uranus 24865-05-04 23:02 G 10802939.34 10802939.46 10802939.61 0.0133 0.0077

Moon 24865-07-29 09:36 G 10803024.77 10803024.90 10803025.02 0.2654 0.1293

Earth 24865-07-29 10:48 G 10803024.82 10803024.95 10803025.07 0.2658 0.1168 *

Uranus 24865-08-01 04:33 G 10803027.54 10803027.69 10803027.84 0.0133 0.0055

Uranus 24865-10-28 09:36 G 10803115.74 10803115.90 10803116.07 0.0133 0.0035

Uranus 24866-01-24 14:52 G 10803203.95 10803204.12 10803204.28 0.0133 0.0015

Uranus 24866-04-22 19:55 G 10803292.16 10803292.33 10803292.49 0.0133 0.0006

Uranus 24866-07-20 00:57 G 10803380.37 10803380.54 10803380.70 0.0133 0.0025

Uranus 24866-10-16 05:45 G 10803468.59 10803468.74 10803468.90 0.0133 0.0045

Uranus 24867-01-12 10:48 G 10803556.81 10803556.95 10803557.09 0.0133 0.0064

Uranus 24867-04-10 15:36 G 10803645.03 10803645.15 10803645.28 0.0133 0.0084

Uranus 24867-07-07 20:24 G 10803733.26 10803733.35 10803733.46 0.0133 0.0103

Uranus 24867-10-04 01:12 G 10803821.50 10803821.55 10803821.62 0.0133 0.0122

Moon 24868-01-28 19:55 G 10803938.23 10803938.33 10803938.44 0.2674 0.1015

Earth 24868-01-28 20:52 G 10803938.26 10803938.37 10803938.48 0.2674 0.0940 *

Mars 24868-10-22 20:09 G 10804206.20 10804206.34 10804206.47 0.1670 0.0049

Jupiter 24869-06-06 15:36 G 10804432.99 10804433.15 10804433.31 0.0520 0.0096

Saturn 24869-07-10 13:55 G 10804466.97 10804467.08 10804467.18 0.0268 0.0177

Saturn 24869-10-07 01:55 G 10804555.44 10804555.58 10804555.72 0.0268 0.0082

Saturn 24870-01-03 14:09 G 10804643.95 10804644.09 10804644.24 0.0268 0.0015

Saturn 24870-04-02 02:38 G 10804732.48 10804732.61 10804732.75 0.0269 0.0114

Saturn 24870-06-29 15:21 G 10804821.06 10804821.14 10804821.23 0.0269 0.0215

Jupiter 24874-10-26 16:19 G 10806401.06 10806401.18 10806401.29 0.0510 0.0275

Jupiter 24875-01-24 00:43 G 10806490.43 10806490.53 10806490.65 0.0506 0.0308

Mars 24877-05-23 18:00 G 10807341.14 10807341.25 10807341.35 0.1876 0.1225

Mars 24878-03-15 04:19 G 10807636.56 10807636.68 10807636.79 0.1676 0.0801

Moon 24878-08-01 11:16 G 10807775.84 10807775.97 10807776.11 0.2658 0.0896

Earth 24878-08-01 12:28 G 10807775.90 10807776.02 10807776.15 0.2658 0.1128 *

Moon 24881-01-30 15:36 G 10808689.03 10808689.15 10808689.26 0.2677 0.0464

Earth 24881-01-30 16:19 G 10808689.06 10808689.18 10808689.29 0.2674 0.0629 *

Jupiter 24881-03-25 14:52 G 10808742.96 10808743.12 10808743.28 0.0519 0.0092

Venus 24882-06-13 23:16 G 10809188.38 10809188.47 10809188.55 0.3692 0.2649

Saturn 24884-02-15 15:50 G 10809800.02 10809800.16 10809800.29 0.0292 0.0172

Saturn 24884-05-14 11:45 G 10809888.82 10809888.99 10809889.15 0.0292 0.0023

Saturn 24884-08-11 07:12 G 10809977.65 10809977.80 10809977.94 0.0292 0.0121

Saturn 24884-11-08 01:55 G 10810066.51 10810066.58 10810066.65 0.0292 0.0261

Jupiter 24886-08-14 19:12 G 10810711.23 10810711.30 10810711.38 0.0511 0.0427

Mars 24886-10-13 21:07 G 10810771.24 10810771.38 10810771.52 0.1868 0.0107

Jupiter 24886-11-12 03:36 G 10810800.52 10810800.65 10810800.79 0.0508 0.0154

Mars 24887-08-05 12:28 G 10811066.99 10811067.02 10811067.05 0.1682 0.1620

Venus 24887-12-28 20:38 G 10811212.24 10811212.36 10811212.48 0.3692 0.0500

Venus 24889-07-10 16:33 G 10811772.09 10811772.19 10811772.28 0.3679 0.2132

Jupiter 24893-01-11 13:55 G 10813052.94 10813053.08 10813053.22 0.0518 0.0282

Jupiter 24893-04-11 15:36 G 10813143.09 10813143.15 10813143.21 0.0521 0.0478

Venus 24893-07-13 17:45 G 10813236.13 10813236.24 10813236.35 0.3693 0.1552

Moon 24894-02-02 11:31 G 10813439.92 10813439.98 10813440.04 0.2681 0.2272

Earth 24894-02-02 11:45 G 10813439.92 10813439.99 10813440.05 0.2674 0.2213 *

Venus 24895-01-24 12:28 G 10813795.90 10813796.02 10813796.14 0.3678 0.0311

Mars 24896-03-04 23:31 G 10814201.40 10814201.48 10814201.57 0.1859 0.1484

Jupiter 24898-08-31 07:26 G 10815110.67 10815110.81 10815110.94 0.0509 0.0019

Saturn 24898-11-27 16:48 G 10815199.10 10815199.20 10815199.29 0.0267 0.0199

Mars 24898-12-01 12:00 G 10815202.90 10815203.00 10815203.11 0.1664 0.0955

Venus 24899-01-27 14:24 G 10815260.07 10815260.10 10815260.14 0.3693 0.3506

Saturn 24899-02-24 04:48 G 10815287.56 10815287.70 10815287.83 0.0267 0.0105

Saturn 24899-05-23 17:02 G 10815376.06 10815376.21 10815376.35 0.0268 0.0012

Saturn 24899-08-20 05:16 G 10815464.59 10815464.72 10815464.86 0.0268 0.0090

Saturn 24899-11-16 18:00 G 10815553.15 10815553.25 10815553.36 0.0268 0.0190

Venus 24900-08-10 08:38 G 10815819.75 10815819.86 10815819.96 0.3678 0.1641

Moon 24901-01-27 06:14 G 10815989.69 10815989.76 10815989.82 0.2669 0.2218

Earth 24901-01-27 06:43 G 10815989.71 10815989.78 10815989.85 0.2673 0.2148 *

Jupiter 24904-10-31 12:14 G 10817362.95 10817363.01 10817363.07 0.0517 0.0481

Jupiter 24905-01-29 14:38 G 10817452.97 10817453.11 10817453.24 0.0520 0.0286

Venus 24906-02-24 05:02 G 10817843.70 10817843.71 10817843.72 0.3677 0.3654

Uranus 24907-02-06 00:14 G 10818190.49 10818190.51 10818190.56 0.0145 0.0141

Uranus 24907-05-05 04:48 G 10818278.63 10818278.70 10818278.79 0.0145 0.0119

Uranus 24907-08-01 09:36 G 10818366.80 10818366.90 10818367.01 0.0145 0.0096

Uranus 24907-10-28 14:09 G 10818454.97 10818455.09 10818455.22 0.0145 0.0073

Uranus 24908-01-24 18:57 G 10818543.16 10818543.29 10818543.43 0.0145 0.0050

Uranus 24908-04-21 23:45 G 10818631.35 10818631.49 10818631.64 0.0145 0.0027

Mars 24908-04-23 20:09 G 10818633.21 10818633.34 10818633.47 0.1670 0.0135

Uranus 24908-07-19 04:33 G 10818719.54 10818719.69 10818719.84 0.0145 0.0005

Uranus 24908-10-15 09:21 G 10818807.75 10818807.89 10818808.04 0.0145 0.0020

Uranus 24909-01-11 14:24 G 10818895.96 10818896.10 10818896.24 0.0145 0.0044

Uranus 24909-04-09 19:12 G 10818984.17 10818984.30 10818984.44 0.0145 0.0067

Uranus 24909-07-07 00:14 G 10819072.39 10819072.51 10819072.63 0.0145 0.0091

Uranus 24909-10-03 05:02 G 10819160.63 10819160.71 10819160.81 0.0145 0.0116

Uranus 24909-12-30 10:19 G 10819248.89 10819248.93 10819248.97 0.0145 0.0140

Jupiter 24910-06-20 11:16 G 10819420.84 10819420.97 10819421.10 0.0509 0.0127

Jupiter 24910-09-17 20:09 G 10819510.28 10819510.34 10819510.40 0.0506 0.0459

Moon 24911-07-31 15:36 G 10819827.01 10819827.15 10819827.28 0.2654 0.0864

Earth 24911-07-31 16:48 G 10819827.06 10819827.20 10819827.33 0.2658 0.0696 *

Saturn 24913-07-05 14:09 G 10820531.99 10820532.09 10820532.21 0.0292 0.0223

Saturn 24913-10-02 10:33 G 10820620.78 10820620.94 10820621.10 0.0292 0.0073

Saturn 24913-12-30 06:00 G 10820709.59 10820709.75 10820709.91 0.0292 0.0073

Moon 24914-01-30 00:57 G 10820740.43 10820740.54 10820740.66 0.2674 0.0775

Earth 24914-01-30 01:55 G 10820740.47 10820740.58 10820740.69 0.2674 0.0619 *

Saturn 24914-03-29 01:12 G 10820798.44 10820798.55 10820798.65 0.0291 0.0214

Jupiter 24916-11-17 13:55 G 10821762.92 10821763.08 10821763.25 0.0520 0.0103

Mars 24916-11-22 18:28 G 10821768.18 10821768.27 10821768.36 0.1876 0.1400

Mars 24917-09-14 04:19 G 10822063.56 10822063.68 10822063.80 0.1676 0.0690

Jupiter 24922-04-08 15:07 G 10823731.01 10823731.13 10823731.24 0.0510 0.0265

Jupiter 24922-07-06 23:45 G 10823820.38 10823820.49 10823820.60 0.0507 0.0318

Moon 24924-08-02 17:16 G 10824578.10 10824578.22 10824578.34 0.2660 0.1474

Earth 24924-08-02 18:28 G 10824578.16 10824578.27 10824578.38 0.2657 0.1573 *

Mars 24926-04-14 21:07 G 10825198.24 10825198.38 10825198.52 0.1868 0.0046

Moon 24927-02-01 20:38 G 10825491.25 10825491.36 10825491.47 0.2678 0.0926

Earth 24927-02-01 21:07 G 10825491.27 10825491.38 10825491.49 0.2674 0.0951 *

Mars 24927-02-04 12:43 G 10825493.97 10825494.03 10825494.09 0.1682 0.1503

Neptune 24927-09-19 14:09 G 10825721.04 10825721.09 10825721.18 0.0089 0.0082

Neptune 24927-12-16 17:02 G 10825809.12 10825809.21 10825809.33 0.0089 0.0072

Neptune 24928-03-13 19:40 G 10825897.22 10825897.32 10825897.46 0.0089 0.0063

Saturn 24928-04-16 17:16 G 10825931.17 10825931.22 10825931.29 0.0268 0.0238

Neptune 24928-06-09 22:48 G 10825985.32 10825985.45 10825985.60 0.0089 0.0054

Saturn 24928-07-14 05:16 G 10826019.60 10826019.72 10826019.84 0.0268 0.0144

Jupiter 24928-09-05 13:40 G 10826072.90 10826073.07 10826073.23 0.0519 0.0081

Neptune 24928-09-06 01:40 G 10826073.42 10826073.57 10826073.72 0.0089 0.0044

Saturn 24928-10-10 17:16 G 10826108.08 10826108.22 10826108.37 0.0268 0.0050

Neptune 24928-12-03 04:19 G 10826161.53 10826161.68 10826161.85 0.0089 0.0035

Saturn 24929-01-07 05:45 G 10826196.60 10826196.74 10826196.88 0.0268 0.0048

Neptune 24929-03-01 07:12 G 10826249.64 10826249.80 10826249.97 0.0089 0.0026

Saturn 24929-04-05 18:14 G 10826285.14 10826285.26 10826285.38 0.0268 0.0148

Neptune 24929-05-28 09:50 G 10826337.75 10826337.91 10826338.08 0.0089 0.0017

Saturn 24929-07-03 06:57 G 10826373.75 10826373.79 10826373.85 0.0269 0.0250

Neptune 24929-08-24 12:43 G 10826425.86 10826426.03 10826426.20 0.0089 0.0008

Neptune 24929-11-20 15:21 G 10826513.97 10826514.14 10826514.31 0.0089 0.0001

Neptune 24930-02-16 18:00 G 10826602.08 10826602.25 10826602.42 0.0089 0.0010

Neptune 24930-05-15 20:38 G 10826690.20 10826690.36 10826690.53 0.0089 0.0019

Neptune 24930-08-11 23:16 G 10826778.32 10826778.47 10826778.64 0.0089 0.0028

Neptune 24930-11-08 02:09 G 10826866.43 10826866.59 10826866.74 0.0089 0.0037

Neptune 24931-02-04 04:48 G 10826954.55 10826954.70 10826954.84 0.0089 0.0045

Neptune 24931-05-03 07:12 G 10827042.68 10827042.80 10827042.94 0.0089 0.0054

Neptune 24931-07-30 09:50 G 10827130.80 10827130.91 10827131.04 0.0089 0.0063

Neptune 24931-10-26 12:14 G 10827218.93 10827219.01 10827219.13 0.0089 0.0072

Neptune 24932-01-22 15:07 G 10827307.06 10827307.13 10827307.21 0.0089 0.0080

Neptune 24932-04-19 17:45 G 10827395.24 10827395.24 10827395.25 0.0089 0.0089

Jupiter 24934-01-25 18:43 G 10828041.20 10828041.28 10828041.37 0.0511 0.0406

Jupiter 24934-04-25 03:07 G 10828130.50 10828130.63 10828130.76 0.0507 0.0175

Mars 24935-09-05 00:00 G 10828628.40 10828628.50 10828628.60 0.1860 0.1323

Mars 24938-06-02 12:28 G 10829629.92 10829630.02 10829630.12 0.1664 0.1084

Venus 24939-01-19 22:19 G 10829861.32 10829861.43 10829861.53 0.3692 0.1934

Moon 24940-02-04 16:33 G 10830242.15 10830242.19 10830242.24 0.2681 0.2480

Earth 24940-02-04 16:48 G 10830242.16 10830242.20 10830242.23 0.2674 0.2549 *

Jupiter 24940-06-24 12:57 G 10830382.89 10830383.04 10830383.18 0.0518 0.0266

Venus 24940-08-01 19:26 G 10830421.26 10830421.31 10830421.36 0.3679 0.3316

Jupiter 24940-09-22 14:38 G 10830473.06 10830473.11 10830473.16 0.0521 0.0494

Saturn 24942-11-22 12:28 G 10831263.98 10831264.02 10831264.07 0.0293 0.0278

Saturn 24943-02-19 08:52 G 10831352.72 10831352.87 10831353.02 0.0292 0.0126

Pluto 24943-03-14 15:50 G 10831376.11 10831376.16 10831376.21 0.0070 0.0064

Saturn 24943-05-19 04:48 G 10831441.53 10831441.70 10831441.86 0.0292 0.0022

Pluto 24943-06-10 16:19 G 10831464.11 10831464.18 10831464.27 0.0070 0.0055

Saturn 24943-08-16 00:00 G 10831530.37 10831530.50 10831530.64 0.0292 0.0165

Pluto 24943-09-06 17:02 G 10831552.11 10831552.21 10831552.31 0.0070 0.0045

Pluto 24943-12-03 17:31 G 10831640.12 10831640.23 10831640.35 0.0070 0.0036

Pluto 24944-02-29 18:14 G 10831728.14 10831728.26 10831728.38 0.0070 0.0026

Pluto 24944-05-27 18:43 G 10831816.16 10831816.28 10831816.41 0.0070 0.0017

Moon 24944-07-28 19:40 G 10831878.29 10831878.32 10831878.34 0.2653 0.2602

Earth 24944-07-28 20:24 G 10831878.32 10831878.35 10831878.39 0.2658 0.2573 *

Venus 24944-08-04 19:40 G 10831885.20 10831885.32 10831885.44 0.3692 0.0193

Pluto 24944-08-23 19:26 G 10831904.18 10831904.31 10831904.44 0.0070 0.0007

Pluto 24944-11-19 19:55 G 10831992.20 10831992.33 10831992.46 0.0070 0.0003

Pluto 24945-02-15 20:24 G 10832080.23 10832080.35 10832080.49 0.0071 0.0013

Pluto 24945-05-14 21:07 G 10832168.26 10832168.38 10832168.51 0.0071 0.0022

Pluto 24945-08-10 21:36 G 10832256.29 10832256.40 10832256.52 0.0071 0.0032

Pluto 24945-11-06 22:19 G 10832344.33 10832344.43 10832344.54 0.0071 0.0042

Pluto 24946-02-02 22:48 G 10832432.37 10832432.45 10832432.55 0.0071 0.0052

Jupiter 24946-02-11 06:00 G 10832440.62 10832440.75 10832440.89 0.0509 0.0023

Venus 24946-02-15 15:07 G 10832445.02 10832445.13 10832445.24 0.3679 0.1525

Pluto 24946-05-01 23:16 G 10832520.42 10832520.47 10832520.55 0.0071 0.0063

Moon 24947-01-28 11:02 G 10832791.88 10832791.96 10832792.04 0.2670 0.1895

Earth 24947-01-28 11:45 G 10832791.90 10832791.99 10832792.07 0.2673 0.1836 *

Mars 24947-10-23 20:24 G 10833060.22 10833060.35 10833060.48 0.1669 0.0253

Uranus 24948-09-03 15:07 G 10833376.10 10833376.13 10833376.16 0.0133 0.0131

Uranus 24948-11-30 20:09 G 10833464.26 10833464.34 10833464.45 0.0133 0.0110

Uranus 24949-02-27 01:40 G 10833552.45 10833552.57 10833552.70 0.0133 0.0089

Uranus 24949-05-26 06:57 G 10833640.65 10833640.79 10833640.94 0.0133 0.0068

Uranus 24949-08-22 12:00 G 10833728.85 10833729.00 10833729.16 0.0133 0.0048

Uranus 24949-11-18 17:16 G 10833817.06 10833817.22 10833817.39 0.0133 0.0028

Uranus 24950-02-14 22:19 G 10833905.27 10833905.43 10833905.60 0.0133 0.0008

Venus 24950-02-18 16:33 G 10833909.10 10833909.19 10833909.29 0.3693 0.2214

Uranus 24950-05-14 03:21 G 10833993.48 10833993.64 10833993.81 0.0133 0.0013

Uranus 24950-08-10 08:24 G 10834081.70 10834081.85 10834082.02 0.0133 0.0033

Uranus 24950-11-06 13:26 G 10834169.91 10834170.06 10834170.21 0.0133 0.0052

Uranus 24951-02-02 18:14 G 10834258.13 10834258.26 10834258.41 0.0133 0.0072

Uranus 24951-05-01 23:16 G 10834346.35 10834346.47 10834346.59 0.0133 0.0091

Uranus 24951-07-29 04:04 G 10834434.59 10834434.67 10834434.76 0.0133 0.0110

Venus 24951-09-01 11:02 G 10834468.84 10834468.96 10834469.08 0.3678 0.0352

Uranus 24951-10-25 08:38 G 10834522.84 10834522.86 10834522.91 0.0133 0.0130

Jupiter 24952-04-12 11:45 G 10834692.92 10834692.99 10834693.07 0.0517 0.0456

Jupiter 24952-07-11 14:09 G 10834782.96 10834783.09 10834783.22 0.0520 0.0309

Mars 24956-05-23 18:43 G 10836195.20 10836195.28 10836195.35 0.1876 0.1547

Mars 24957-03-15 04:33 G 10836490.56 10836490.69 10836490.81 0.1676 0.0574

Venus 24957-03-17 07:26 G 10836492.71 10836492.81 10836492.90 0.3677 0.2302

Moon 24957-07-31 21:21 G 10836629.25 10836629.39 10836629.54 0.2656 0.0403

Earth 24957-07-31 22:33 G 10836629.30 10836629.44 10836629.59 0.2658 0.0243 *

Saturn 24957-09-03 20:09 G 10836663.32 10836663.34 10836663.38 0.0267 0.0259

Jupiter 24957-11-30 09:36 G 10836750.77 10836750.90 10836751.04 0.0510 0.0125

Saturn 24957-12-01 08:09 G 10836751.73 10836751.84 10836751.95 0.0267 0.0166

Saturn 24958-02-27 20:09 G 10836840.20 10836840.34 10836840.48 0.0267 0.0072

Jupiter 24958-02-27 18:43 G 10836840.22 10836840.28 10836840.33 0.0506 0.0463 *

Saturn 24958-05-27 08:24 G 10836928.71 10836928.85 10836929.00 0.0268 0.0025

Saturn 24958-08-23 20:52 G 10837017.24 10837017.37 10837017.50 0.0268 0.0124

Saturn 24958-11-20 09:36 G 10837105.83 10837105.90 10837105.98 0.0268 0.0225

Moon 24960-01-31 06:00 G 10837542.64 10837542.75 10837542.87 0.2674 0.0401

Earth 24960-01-31 06:57 G 10837542.67 10837542.79 10837542.90 0.2674 0.0307 *

Jupiter 24964-04-29 12:43 G 10839092.87 10839093.03 10839093.20 0.0519 0.0115

Mars 24965-10-13 21:36 G 10839625.26 10839625.40 10839625.54 0.1868 0.0202

Mars 24966-08-05 12:43 G 10839920.96 10839921.03 10839921.10 0.1682 0.1390

Jupiter 24969-09-18 13:40 G 10841060.95 10841061.07 10841061.19 0.0510 0.0260

Jupiter 24969-12-16 22:19 G 10841150.33 10841150.43 10841150.54 0.0507 0.0324

Moon 24970-08-03 23:16 G 10841380.37 10841380.47 10841380.57 0.2661 0.1856

Earth 24970-08-04 00:28 G 10841380.43 10841380.52 10841380.61 0.2658 0.2030 *

Saturn 24972-07-08 07:40 G 10842084.69 10842084.82 10842084.96 0.0292 0.0176

Saturn 24972-10-05 03:50 G 10842173.49 10842173.66 10842173.82 0.0292 0.0027

Saturn 24973-01-01 23:16 G 10842262.32 10842262.47 10842262.62 0.0292 0.0118

Moon 24973-02-02 01:55 G 10842293.47 10842293.58 10842293.68 0.2680 0.1178

Earth 24973-02-02 02:09 G 10842293.49 10842293.59 10842293.70 0.2674 0.1274 *

Saturn 24973-03-31 18:00 G 10842351.19 10842351.25 10842351.33 0.0292 0.0259

Mars 24975-03-06 00:14 G 10843055.41 10843055.51 10843055.62 0.1860 0.1165

Jupiter 24976-02-16 12:14 G 10843402.84 10843403.01 10843403.17 0.0519 0.0072

Mars 24977-12-01 12:28 G 10844056.93 10844057.02 10844057.11 0.1663 0.1196

Jupiter 24981-07-07 17:45 G 10845371.15 10845371.24 10845371.32 0.0511 0.0397

Jupiter 24981-10-05 02:09 G 10845460.46 10845460.59 10845460.72 0.0508 0.0184

Saturn 24987-04-20 08:52 G 10847483.78 10847483.87 10847483.96 0.0267 0.0205

Mars 24987-04-23 20:38 G 10847487.23 10847487.36 10847487.49 0.1670 0.0376

Saturn 24987-07-17 20:38 G 10847572.24 10847572.36 10847572.50 0.0267 0.0112

Saturn 24987-10-14 08:52 G 10847660.73 10847660.87 10847661.02 0.0268 0.0016

Jupiter 24987-12-05 11:31 G 10847712.84 10847712.98 10847713.13 0.0518 0.0256

Saturn 24988-01-10 21:21 G 10847749.25 10847749.39 10847749.53 0.0268 0.0082

Jupiter 24988-03-04 13:26 G 10847803.02 10847803.06 10847803.10 0.0522 0.0506

Saturn 24988-04-08 09:50 G 10847837.81 10847837.91 10847838.02 0.0268 0.0182

Venus 24990-02-09 23:45 G 10848510.44 10848510.49 10848510.53 0.3691 0.3425

Moon 24990-07-30 01:40 G 10848680.50 10848680.57 10848680.64 0.2653 0.2293

Earth 24990-07-30 02:38 G 10848680.52 10848680.61 10848680.69 0.2658 0.2091 *

Uranus 24991-02-26 07:40 G 10848891.77 10848891.82 10848891.88 0.0145 0.0134

Uranus 24991-05-25 12:14 G 10848979.93 10848980.01 10848980.11 0.0145 0.0112

Uranus 24991-08-21 17:02 G 10849068.10 10849068.21 10849068.32 0.0145 0.0090

Uranus 24991-11-17 21:36 G 10849156.27 10849156.40 10849156.53 0.0145 0.0067

Uranus 24992-02-14 02:24 G 10849244.46 10849244.60 10849244.74 0.0145 0.0044

Uranus 24992-05-12 07:12 G 10849332.65 10849332.80 10849332.94 0.0145 0.0021

Uranus 24992-08-08 12:00 G 10849420.85 10849421.00 10849421.15 0.0145 0.0003

Uranus 24992-11-04 16:48 G 10849509.05 10849509.20 10849509.35 0.0145 0.0026

Moon 24993-01-28 16:04 G 10849594.08 10849594.17 10849594.26 0.2671 0.1672

Earth 24993-01-28 16:48 G 10849594.10 10849594.20 10849594.29 0.2673 0.1516 *

Uranus 24993-01-31 21:36 G 10849597.26 10849597.40 10849597.54 0.0145 0.0050

Uranus 24993-04-30 02:38 G 10849685.48 10849685.61 10849685.74 0.0145 0.0073

Jupiter 24993-07-24 05:45 G 10849770.60 10849770.74 10849770.88 0.0508 0.0042

Uranus 24993-07-27 07:26 G 10849773.71 10849773.81 10849773.93 0.0145 0.0098

Uranus 24993-10-23 12:28 G 10849861.94 10849862.02 10849862.11 0.0145 0.0122

Venus 24995-08-26 21:21 G 10850534.27 10850534.39 10850534.51 0.3692 0.1223

Mars 24995-11-22 18:57 G 10850622.23 10850622.29 10850622.35 0.1876 0.1697

Mars 24996-09-13 04:48 G 10850917.57 10850917.70 10850917.82 0.1676 0.0449

Venus 24997-03-08 18:00 G 10851094.17 10851094.25 10851094.33 0.3679 0.2727

Jupiter 24999-09-23 10:48 G 10852022.87 10852022.95 10852023.04 0.0517 0.0440

Jupiter 24999-12-22 13:12 G 10852112.92 10852113.05 10852113.18 0.0520 0.0326

26TH MILLENNIUM CE

This is a list of transits of Mercury in the 26th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Venus 25001-03-12 18:43 G 10852558.16 10852558.28 10852558.40 0.3693 0.0883

Saturn 25001-11-26 05:16 G 10852816.63 10852816.72 10852816.82 0.0293 0.0235

Saturn 25002-02-23 01:40 G 10852905.41 10852905.57 10852905.73 0.0293 0.0084

Saturn 25002-05-22 21:21 G 10852994.23 10852994.39 10852994.55 0.0292 0.0064

Saturn 25002-08-19 16:33 G 10853083.08 10853083.19 10853083.30 0.0292 0.0206

Venus 25002-09-23 13:40 G 10853117.96 10853118.07 10853118.19 0.3678 0.0915

Moon 25003-08-03 03:21 G 10853431.50 10853431.64 10853431.78 0.2657 0.0127

Earth 25003-08-03 04:33 G 10853431.55 10853431.69 10853431.84 0.2658 0.0249 *

Mars 25005-04-14 22:04 G 10854052.28 10854052.42 10854052.56 0.1868 0.0363

Jupiter 25005-05-13 08:38 G 10854080.72 10854080.86 10854080.99 0.0510 0.0115

Jupiter 25005-08-10 17:31 G 10854170.18 10854170.23 10854170.28 0.0506 0.0472

Moon 25006-02-01 11:16 G 10854344.85 10854344.97 10854345.08 0.2675 0.0133

Earth 25006-02-01 12:00 G 10854344.88 10854345.00 10854345.11 0.2673 0.0060 *

Mars 25006-02-04 12:57 G 10854347.95 10854348.04 10854348.12 0.1682 0.1276

Venus 25006-09-26 15:21 G 10854582.07 10854582.14 10854582.22 0.3693 0.2872

Venus 25008-04-08 09:50 G 10855141.79 10855141.91 10855142.02 0.3678 0.0989

Neptune 25008-06-29 18:57 G 10855224.25 10855224.29 10855224.34 0.0088 0.0083

Neptune 25008-09-25 20:38 G 10855312.29 10855312.36 10855312.44 0.0088 0.0075

Neptune 25008-12-22 22:04 G 10855400.34 10855400.42 10855400.52 0.0088 0.0069

Neptune 25009-03-20 23:45 G 10855488.40 10855488.49 10855488.60 0.0088 0.0061

Neptune 25009-06-17 01:26 G 10855576.45 10855576.56 10855576.68 0.0088 0.0054

Neptune 25009-09-13 02:52 G 10855664.51 10855664.62 10855664.76 0.0088 0.0048

Neptune 25009-12-10 04:48 G 10855752.58 10855752.70 10855752.83 0.0088 0.0040

Neptune 25010-03-08 06:28 G 10855840.64 10855840.77 10855840.91 0.0088 0.0032

Neptune 25010-06-04 08:09 G 10855928.70 10855928.84 10855928.98 0.0088 0.0025

Neptune 25010-08-31 09:50 G 10856016.77 10856016.91 10856017.05 0.0088 0.0018

Neptune 25010-11-27 11:31 G 10856104.84 10856104.98 10856105.13 0.0088 0.0010

Neptune 25011-02-23 13:12 G 10856192.91 10856193.05 10856193.20 0.0088 0.0003

Neptune 25011-05-22 14:52 G 10856280.98 10856281.12 10856281.27 0.0088 0.0004

Neptune 25011-08-18 16:33 G 10856369.05 10856369.19 10856369.34 0.0088 0.0012

Jupiter 25011-10-11 12:28 G 10856422.87 10856423.02 10856423.18 0.0519 0.0141

Neptune 25011-11-14 18:14 G 10856457.12 10856457.26 10856457.41 0.0088 0.0019

Neptune 25012-02-10 19:55 G 10856545.19 10856545.33 10856545.47 0.0088 0.0027

Neptune 25012-05-08 21:36 G 10856633.27 10856633.40 10856633.54 0.0088 0.0034

Neptune 25012-08-04 23:16 G 10856721.35 10856721.47 10856721.61 0.0088 0.0042

Neptune 25012-11-01 00:57 G 10856809.43 10856809.54 10856809.67 0.0088 0.0049

Neptune 25013-01-28 02:52 G 10856897.51 10856897.62 10856897.73 0.0088 0.0056

Neptune 25013-04-26 04:19 G 10856985.59 10856985.68 10856985.79 0.0088 0.0064

Neptune 25013-07-23 06:14 G 10857073.68 10857073.76 10857073.85 0.0088 0.0071

Neptune 25013-10-19 07:55 G 10857161.78 10857161.83 10857161.90 0.0088 0.0079

Venus 25013-10-23 06:14 G 10857165.69 10857165.76 10857165.83 0.3677 0.2970

Neptune 25014-01-15 09:50 G 10857249.89 10857249.91 10857249.94 0.0088 0.0086

Mars 25014-09-05 00:43 G 10857482.41 10857482.53 10857482.65 0.1860 0.1004

Moon 25016-08-05 05:02 G 10858182.65 10858182.71 10858182.78 0.2661 0.2350

Earth 25016-08-05 06:14 G 10858182.71 10858182.76 10858182.81 0.2658 0.2477 *

Saturn 25016-09-07 11:45 G 10858215.92 10858215.99 10858216.07 0.0267 0.0226

Saturn 25016-12-04 23:31 G 10858304.36 10858304.48 10858304.61 0.0267 0.0134

Jupiter 25017-03-01 12:14 G 10858390.89 10858391.01 10858391.13 0.0511 0.0257

Saturn 25017-03-03 11:45 G 10858392.85 10858392.99 10858393.13 0.0267 0.0038

Jupiter 25017-05-29 20:52 G 10858480.27 10858480.37 10858480.48 0.0507 0.0328

Saturn 25017-05-31 00:00 G 10858481.36 10858481.50 10858481.64 0.0267 0.0060

Mars 25017-06-02 12:43 G 10858483.95 10858484.03 10858484.11 0.1663 0.1320

Saturn 25017-08-27 12:28 G 10858569.91 10858570.02 10858570.14 0.0268 0.0159

Saturn 25017-11-24 01:26 G 10858658.53 10858658.56 10858658.59 0.0268 0.0260

Moon 25019-02-04 06:57 G 10859095.69 10859095.79 10859095.88 0.2680 0.1574

Earth 25019-02-04 07:12 G 10859095.71 10859095.80 10859095.90 0.2674 0.1597 *

Jupiter 25023-07-30 11:02 G 10860732.80 10860732.96 10860733.13 0.0518 0.0058

Mars 25026-10-23 20:38 G 10861914.23 10861914.36 10861914.49 0.1669 0.0492

Jupiter 25028-12-18 16:19 G 10862701.09 10862701.18 10862701.26 0.0511 0.0393

Jupiter 25029-03-18 00:43 G 10862790.40 10862790.53 10862790.66 0.0508 0.0189

Pluto 25029-04-24 05:31 G 10862827.65 10862827.73 10862827.86 0.0074 0.0062

Pluto 25029-07-21 08:24 G 10862915.71 10862915.85 10862916.02 0.0074 0.0045

Pluto 25029-10-17 11:02 G 10863003.78 10863003.96 10863004.15 0.0073 0.0028

Pluto 25030-01-13 13:40 G 10863091.88 10863092.07 10863092.27 0.0073 0.0011

Pluto 25030-04-11 16:19 G 10863179.98 10863180.18 10863180.38 0.0073 0.0006

Pluto 25030-07-08 18:43 G 10863268.10 10863268.28 10863268.47 0.0073 0.0022

Pluto 25030-10-04 21:07 G 10863356.22 10863356.38 10863356.56 0.0073 0.0038

Pluto 25030-12-31 23:16 G 10863444.36 10863444.47 10863444.62 0.0073 0.0055

Pluto 25031-03-30 01:40 G 10863532.55 10863532.57 10863532.64 0.0073 0.0071

Saturn 25031-04-15 04:19 G 10863548.65 10863548.68 10863548.73 0.0293 0.0282

Saturn 25031-07-13 00:43 G 10863637.39 10863637.53 10863637.69 0.0292 0.0131

Saturn 25031-10-09 20:38 G 10863726.20 10863726.36 10863726.53 0.0292 0.0020

Saturn 25032-01-06 16:04 G 10863815.04 10863815.17 10863815.31 0.0292 0.0162

Uranus 25032-09-24 22:19 G 10864077.38 10864077.43 10864077.50 0.0133 0.0124

Uranus 25032-12-22 03:50 G 10864165.55 10864165.66 10864165.76 0.0133 0.0103

Uranus 25033-03-20 08:52 G 10864253.75 10864253.87 10864254.01 0.0133 0.0083

Uranus 25033-06-16 14:09 G 10864341.95 10864342.09 10864342.25 0.0133 0.0062

Uranus 25033-09-12 19:26 G 10864430.16 10864430.31 10864430.47 0.0133 0.0042

Uranus 25033-12-10 00:43 G 10864518.36 10864518.53 10864518.69 0.0133 0.0021

Uranus 25034-03-08 05:45 G 10864606.57 10864606.74 10864606.91 0.0133 0.0002

Uranus 25034-06-04 10:48 G 10864694.79 10864694.95 10864695.12 0.0133 0.0019

Uranus 25034-08-31 15:50 G 10864783.00 10864783.16 10864783.32 0.0133 0.0039

Uranus 25034-11-27 20:38 G 10864871.22 10864871.36 10864871.52 0.0133 0.0059

Uranus 25035-02-24 01:40 G 10864959.44 10864959.57 10864959.71 0.0133 0.0078

Jupiter 25035-05-18 10:19 G 10865042.78 10865042.93 10865043.07 0.0518 0.0246

Uranus 25035-05-23 06:43 G 10865047.67 10865047.78 10865047.89 0.0133 0.0097

Mars 25035-05-24 19:26 G 10865049.29 10865049.31 10865049.32 0.1876 0.1861

Jupiter 25035-08-16 12:00 G 10865132.98 10865133.00 10865133.02 0.0521 0.0514

Uranus 25035-08-19 11:16 G 10865135.91 10865135.97 10865136.06 0.0133 0.0117

Mars 25036-03-15 04:48 G 10865344.57 10865344.70 10865344.83 0.1676 0.0339

Moon 25036-07-31 07:26 G 10865482.70 10865482.81 10865482.93 0.2653 0.1654

Earth 25036-07-31 08:24 G 10865482.74 10865482.85 10865482.97 0.2658 0.1625 *

Moon 25039-01-30 20:52 G 10866396.27 10866396.37 10866396.47 0.2671 0.1251

Earth 25039-01-30 21:36 G 10866396.30 10866396.40 10866396.51 0.2673 0.1206 *

Jupiter 25041-01-04 04:33 G 10867100.55 10867100.69 10867100.83 0.0508 0.0050

Mars 25044-10-13 22:19 G 10868479.29 10868479.43 10868479.56 0.1868 0.0509

Mars 25045-08-05 13:12 G 10868774.95 10868775.05 10868775.14 0.1682 0.1152

Saturn 25046-01-25 12:43 G 10868948.01 10868948.03 10868948.05 0.0267 0.0263

Saturn 25046-04-24 00:28 G 10869036.41 10869036.52 10869036.63 0.0267 0.0171

Saturn 25046-07-21 12:28 G 10869124.88 10869125.02 10869125.15 0.0267 0.0077

Venus 25046-09-17 22:48 G 10869183.37 10869183.45 10869183.54 0.3692 0.2695

Saturn 25046-10-18 00:28 G 10869213.38 10869213.52 10869213.67 0.0268 0.0021

Saturn 25047-01-14 12:57 G 10869301.91 10869302.04 10869302.17 0.0268 0.0118

Jupiter 25047-03-06 09:21 G 10869352.80 10869352.89 10869352.99 0.0517 0.0432

Saturn 25047-04-13 01:40 G 10869390.49 10869390.57 10869390.66 0.0268 0.0218

Jupiter 25047-06-04 11:45 G 10869442.87 10869442.99 10869443.12 0.0521 0.0335

Moon 25049-08-03 09:21 G 10870233.75 10870233.89 10870234.03 0.2659 0.0457

Earth 25049-08-03 10:33 G 10870233.80 10870233.94 10870234.08 0.2658 0.0698 *

Moon 25052-02-02 16:19 G 10871147.06 10871147.18 10871147.29 0.2677 0.0224

Earth 25052-02-02 17:02 G 10871147.09 10871147.21 10871147.32 0.2673 0.0356 *

Venus 25052-04-02 20:24 G 10871207.23 10871207.35 10871207.47 0.3692 0.0518

Jupiter 25052-10-23 08:09 G 10871410.71 10871410.84 10871410.98 0.0509 0.0092

Jupiter 25053-01-20 17:02 G 10871500.19 10871500.21 10871500.24 0.0506 0.0495

Venus 25053-10-14 16:33 G 10871767.10 10871767.19 10871767.29 0.3679 0.2132

Mars 25054-03-06 00:57 G 10871909.42 10871909.54 10871909.67 0.1861 0.0851

Mars 25056-12-01 12:57 G 10872910.97 10872911.04 10872911.10 0.1663 0.1446

Venus 25057-10-17 17:31 G 10873231.12 10873231.23 10873231.34 0.3693 0.1549

Jupiter 25059-03-23 11:31 G 10873752.83 10873752.98 10873753.14 0.0519 0.0157

Venus 25059-04-30 12:28 G 10873790.90 10873791.02 10873791.14 0.3678 0.0295

Saturn 25060-11-28 22:19 G 10874369.30 10874369.43 10874369.56 0.0293 0.0190

Saturn 25061-02-25 18:28 G 10874458.10 10874458.27 10874458.43 0.0293 0.0040

Saturn 25061-05-25 13:55 G 10874546.93 10874547.08 10874547.24 0.0292 0.0107

Saturn 25061-08-22 09:07 G 10874635.80 10874635.88 10874635.96 0.0292 0.0249

Venus 25063-05-03 14:24 G 10875255.06 10875255.10 10875255.13 0.3694 0.3525

Jupiter 25064-08-11 11:02 G 10875720.84 10875720.96 10875721.08 0.0510 0.0248

Jupiter 25064-11-08 19:40 G 10875810.22 10875810.32 10875810.43 0.0507 0.0336

Venus 25064-11-13 08:24 G 10875814.75 10875814.85 10875814.96 0.3678 0.1633

Moon 25065-02-04 12:00 G 10875897.92 10875898.00 10875898.08 0.2680 0.1876

Earth 25065-02-04 12:14 G 10875897.93 10875898.01 10875898.09 0.2673 0.1929 *

Mars 25066-04-23 20:52 G 10876341.24 10876341.37 10876341.49 0.1669 0.0611

Venus 25070-05-30 05:02 G 10877838.70 10877838.71 10877838.72 0.3677 0.3650

Jupiter 25071-01-09 10:48 G 10878062.79 10878062.95 10878063.12 0.0518 0.0032

Moon 25072-01-29 06:57 G 10878447.75 10878447.79 10878447.84 0.2668 0.2410

Earth 25072-01-29 07:40 G 10878447.77 10878447.82 10878447.87 0.2673 0.2399 *

Uranus 25075-03-19 14:52 G 10879593.06 10879593.12 10879593.19 0.0145 0.0129

Uranus 25075-06-15 19:26 G 10879681.22 10879681.31 10879681.41 0.0145 0.0107

Saturn 25075-09-11 03:21 G 10879768.54 10879768.64 10879768.74 0.0267 0.0192

Uranus 25075-09-12 00:14 G 10879769.39 10879769.51 10879769.62 0.0145 0.0084

Mars 25075-09-14 05:02 G 10879771.58 10879771.71 10879771.84 0.1675 0.0218

Saturn 25075-12-08 15:21 G 10879857.01 10879857.14 10879857.27 0.0267 0.0099

Uranus 25075-12-09 04:33 G 10879857.57 10879857.69 10879857.83 0.0145 0.0063

Saturn 25076-03-06 03:21 G 10879945.50 10879945.64 10879945.79 0.0267 0.0007

Uranus 25076-03-06 09:21 G 10879945.76 10879945.89 10879946.04 0.0145 0.0039 *

Jupiter 25076-05-30 14:38 G 10880031.03 10880031.11 10880031.20 0.0511 0.0392

Uranus 25076-06-02 14:09 G 10880033.95 10880034.09 10880034.24 0.0145 0.0016

Saturn 25076-06-02 15:50 G 10880034.02 10880034.16 10880034.29 0.0267 0.0095 *

Jupiter 25076-08-27 23:02 G 10880120.34 10880120.46 10880120.59 0.0508 0.0192

Uranus 25076-08-29 18:57 G 10880122.15 10880122.29 10880122.44 0.0145 0.0009

Saturn 25076-08-30 04:19 G 10880122.59 10880122.68 10880122.78 0.0268 0.0195

Uranus 25076-11-25 23:45 G 10880210.35 10880210.49 10880210.64 0.0145 0.0032

Uranus 25077-02-22 04:33 G 10880298.56 10880298.69 10880298.84 0.0145 0.0056

Uranus 25077-05-21 09:36 G 10880386.78 10880386.90 10880387.03 0.0145 0.0079

Uranus 25077-08-17 14:38 G 10880475.01 10880475.11 10880475.22 0.0145 0.0103

Uranus 25077-11-13 19:26 G 10880563.25 10880563.31 10880563.39 0.0145 0.0127

Moon 25082-08-01 13:26 G 10882284.94 10882285.06 10882285.18 0.2655 0.1365

Earth 25082-08-01 14:38 G 10882284.98 10882285.11 10882285.23 0.2658 0.1144 *

Jupiter 25082-10-28 09:07 G 10882372.73 10882372.88 10882373.03 0.0517 0.0231

Mars 25084-04-13 22:33 G 10882906.31 10882906.44 10882906.57 0.1869 0.0672

Moon 25085-01-31 01:55 G 10883198.47 10883198.58 10883198.69 0.2671 0.1056

Earth 25085-01-31 02:38 G 10883198.50 10883198.61 10883198.72 0.2673 0.0886 *

Mars 25085-02-03 13:12 G 10883201.95 10883202.05 10883202.15 0.1682 0.1041

Jupiter 25088-06-16 03:07 G 10884430.49 10884430.63 10884430.76 0.0509 0.0054

Saturn 25090-04-17 21:36 G 10885101.31 10885101.40 10885101.51 0.0293 0.0236

Saturn 25090-07-15 18:00 G 10885190.09 10885190.25 10885190.41 0.0293 0.0084

Saturn 25090-10-12 13:40 G 10885278.91 10885279.07 10885279.24 0.0292 0.0064

Saturn 25091-01-09 08:52 G 10885367.76 10885367.87 10885367.99 0.0292 0.0207

Neptune 25092-03-20 09:50 G 10885803.90 10885803.91 10885803.95 0.0089 0.0088

Neptune 25092-06-16 12:57 G 10885891.96 10885892.04 10885892.12 0.0089 0.0078

Neptune 25092-09-12 15:36 G 10885980.05 10885980.15 10885980.27 0.0089 0.0069

Neptune 25092-12-09 18:28 G 10886068.15 10886068.27 10886068.41 0.0089 0.0060

Neptune 25093-03-07 21:07 G 10886156.25 10886156.38 10886156.54 0.0089 0.0051

Neptune 25093-06-04 00:00 G 10886244.36 10886244.50 10886244.66 0.0089 0.0042

Neptune 25093-08-31 02:52 G 10886332.46 10886332.62 10886332.79 0.0089 0.0033

Mars 25093-09-04 01:26 G 10886336.43 10886336.56 10886336.69 0.1860 0.0685

Neptune 25093-11-27 05:45 G 10886420.57 10886420.74 10886420.91 0.0089 0.0023

Neptune 25094-02-23 08:24 G 10886508.68 10886508.85 10886509.02 0.0089 0.0014

Neptune 25094-05-22 11:16 G 10886596.80 10886596.97 10886597.14 0.0089 0.0005

Jupiter 25094-08-16 08:09 G 10886682.74 10886682.84 10886682.93 0.0517 0.0422

Neptune 25094-08-18 13:55 G 10886684.91 10886685.08 10886685.25 0.0089 0.0004

Jupiter 25094-11-14 10:19 G 10886772.81 10886772.93 10886773.05 0.0520 0.0343

Neptune 25094-11-14 16:33 G 10886773.02 10886773.19 10886773.36 0.0089 0.0013 *

Neptune 25095-02-10 19:12 G 10886861.14 10886861.30 10886861.47 0.0089 0.0022

Neptune 25095-05-09 22:04 G 10886949.26 10886949.42 10886949.58 0.0089 0.0031

Moon 25095-08-04 15:07 G 10887036.00 10887036.13 10887036.26 0.2659 0.1072

Earth 25095-08-04 16:33 G 10887036.06 10887036.19 10887036.32 0.2658 0.1155 *

Neptune 25095-08-06 00:43 G 10887037.38 10887037.53 10887037.68 0.0089 0.0039

Neptune 25095-11-02 03:21 G 10887125.50 10887125.64 10887125.78 0.0089 0.0048

Neptune 25096-01-29 05:45 G 10887213.62 10887213.74 10887213.88 0.0089 0.0057

Neptune 25096-04-26 08:24 G 10887301.75 10887301.85 10887301.97 0.0089 0.0066

Mars 25096-06-01 12:57 G 10887338.00 10887338.04 10887338.08 0.1663 0.1562

Neptune 25096-07-23 11:16 G 10887389.88 10887389.97 10887390.06 0.0089 0.0075

Neptune 25096-10-19 13:40 G 10887478.02 10887478.07 10887478.14 0.0089 0.0083

Moon 25098-02-02 21:21 G 10887949.27 10887949.39 10887949.50 0.2678 0.0635

Earth 25098-02-02 21:50 G 10887949.30 10887949.41 10887949.53 0.2673 0.0673 *

Jupiter 25100-04-05 06:57 G 10888740.65 10888740.79 10888740.92 0.0509 0.0086

Jupiter 25100-07-03 15:50 G 10888830.15 10888830.16 10888830.17 0.0506 0.0501

Venus 25103-04-25 21:50 G 10889856.31 10889856.41 10889856.52 0.3692 0.1979

Venus 25104-11-05 19:40 G 10890416.27 10890416.32 10890416.36 0.3679 0.3326

Saturn 25105-01-29 04:19 G 10890500.62 10890500.68 10890500.76 0.0267 0.0228

Saturn 25105-04-27 16:19 G 10890589.06 10890589.18 10890589.30 0.0267 0.0135

Saturn 25105-07-25 04:19 G 10890677.54 10890677.68 10890677.82 0.0267 0.0040

Saturn 25105-10-21 16:33 G 10890766.05 10890766.19 10890766.33 0.0267 0.0057

Mars 25105-10-23 21:07 G 10890768.26 10890768.38 10890768.50 0.1669 0.0736

Saturn 25106-01-18 05:02 G 10890854.59 10890854.71 10890854.83 0.0268 0.0156

Saturn 25106-04-16 17:45 G 10890943.21 10890943.24 10890943.28 0.0268 0.0257

Jupiter 25106-09-03 09:50 G 10891082.76 10891082.91 10891083.07 0.0520 0.0163

Venus 25108-11-08 19:26 G 10891880.19 10891880.31 10891880.43 0.3692 0.0181

Venus 25110-05-22 15:07 G 10892440.02 10892440.13 10892440.24 0.3679 0.1529

Moon 25111-02-06 17:16 G 10892700.15 10892700.22 10892700.28 0.2680 0.2228

Earth 25111-02-06 17:16 G 10892700.16 10892700.22 10892700.28 0.2673 0.2256 *

Jupiter 25112-01-23 10:33 G 10893050.82 10893050.94 10893051.07 0.0510 0.0227

Jupiter 25112-04-21 19:26 G 10893140.21 10893140.31 10893140.40 0.0507 0.0358

Venus 25114-05-25 16:19 G 10893904.08 10893904.18 10893904.28 0.3693 0.2209

Mars 25115-03-16 05:16 G 10894198.58 10894198.72 10894198.85 0.1675 0.0104

Venus 25115-12-06 11:02 G 10894463.84 10894463.96 10894464.08 0.3678 0.0342

Uranus 25116-10-16 06:00 G 10894778.67 10894778.75 10894778.83 0.0133 0.0117

Uranus 25117-01-12 11:02 G 10894866.86 10894866.96 10894867.09 0.0133 0.0097

Uranus 25117-04-10 16:19 G 10894955.05 10894955.18 10894955.33 0.0133 0.0076

Uranus 25117-07-07 21:50 G 10895043.26 10895043.41 10895043.56 0.0133 0.0055

Uranus 25117-10-04 02:52 G 10895131.46 10895131.62 10895131.79 0.0133 0.0035

Uranus 25117-12-31 08:09 G 10895219.67 10895219.84 10895220.01 0.0133 0.0014

Moon 25118-01-30 12:00 G 10895249.94 10895250.00 10895250.06 0.2668 0.2217

Earth 25118-01-30 12:43 G 10895249.96 10895250.03 10895250.10 0.2673 0.2083 *

Uranus 25118-03-29 13:12 G 10895307.89 10895308.05 10895308.22 0.0133 0.0006

Jupiter 25118-06-22 09:50 G 10895392.74 10895392.91 10895393.07 0.0518 0.0020

Uranus 25118-06-25 18:14 G 10895396.10 10895396.26 10895396.43 0.0133 0.0026

Uranus 25118-09-21 23:16 G 10895484.32 10895484.47 10895484.63 0.0133 0.0046

Uranus 25118-12-19 04:19 G 10895572.54 10895572.68 10895572.82 0.0133 0.0065

Uranus 25119-03-17 09:07 G 10895660.76 10895660.88 10895661.01 0.0133 0.0085

Uranus 25119-06-13 14:09 G 10895748.99 10895749.09 10895749.19 0.0133 0.0104

Uranus 25119-09-09 18:57 G 10895837.24 10895837.29 10895837.35 0.0133 0.0123

Saturn 25119-12-03 15:21 G 10895922.00 10895922.14 10895922.29 0.0293 0.0144

Saturn 25120-03-01 11:16 G 10896010.81 10896010.97 10896011.14 0.0293 0.0010

Saturn 25120-05-29 06:43 G 10896099.65 10896099.78 10896099.93 0.0292 0.0151

Saturn 25120-08-26 01:55 G 10896188.58 10896188.58 10896188.58 0.0292 0.0292

Venus 25121-06-21 07:12 G 10896487.71 10896487.80 10896487.89 0.3678 0.2288

Mars 25123-10-14 23:02 G 10897333.34 10897333.46 10897333.59 0.1869 0.0844

Jupiter 25123-11-11 13:26 G 10897360.98 10897361.06 10897361.15 0.0511 0.0383

Jupiter 25124-02-08 21:50 G 10897450.29 10897450.41 10897450.54 0.0508 0.0200

Mars 25124-08-05 13:26 G 10897628.95 10897629.06 10897629.17 0.1681 0.0923

Moon 25128-08-02 19:12 G 10899087.16 10899087.30 10899087.44 0.2656 0.0764

Earth 25128-08-02 20:24 G 10899087.22 10899087.35 10899087.49 0.2658 0.0681 *

Jupiter 25130-04-10 08:52 G 10899702.72 10899702.87 10899703.02 0.0517 0.0205

Moon 25131-02-02 06:57 G 10900000.68 10900000.79 10900000.90 0.2673 0.0610

Earth 25131-02-02 07:40 G 10900000.71 10900000.82 10900000.94 0.2673 0.0568 *

Mars 25133-03-06 01:40 G 10900763.44 10900763.57 10900763.71 0.1861 0.0536

Saturn 25134-06-18 07:26 G 10901232.76 10901232.81 10901232.86 0.0267 0.0249

Saturn 25134-09-14 19:12 G 10901321.19 10901321.30 10901321.42 0.0267 0.0156

Saturn 25134-12-12 07:12 G 10901409.66 10901409.80 10901409.94 0.0267 0.0062

Saturn 25135-03-10 19:26 G 10901498.17 10901498.31 10901498.45 0.0267 0.0035

Saturn 25135-06-07 07:55 G 10901586.70 10901586.83 10901586.95 0.0267 0.0134

Saturn 25135-09-03 20:24 G 10901675.29 10901675.35 10901675.43 0.0268 0.0235

Jupiter 25135-11-28 01:26 G 10901760.42 10901760.56 10901760.70 0.0509 0.0053

Moon 25141-08-05 21:07 G 10903838.26 10903838.38 10903838.50 0.2659 0.1362

Earth 25141-08-05 22:33 G 10903838.33 10903838.44 10903838.55 0.2658 0.1616 *

Jupiter 25142-01-27 06:57 G 10904012.69 10904012.79 10904012.89 0.0516 0.0408

Jupiter 25142-04-27 09:07 G 10904102.77 10904102.88 10904103.00 0.0520 0.0356

Moon 25144-02-05 02:24 G 10904751.49 10904751.60 10904751.71 0.2678 0.0846

Earth 25144-02-05 02:52 G 10904751.51 10904751.62 10904751.73 0.2673 0.0992 *

Mars 25145-04-23 21:07 G 10905195.27 10905195.38 10905195.50 0.1669 0.0854

Jupiter 25147-09-16 05:16 G 10906070.58 10906070.72 10906070.86 0.0510 0.0085

Jupiter 25147-12-14 14:09 G 10906160.08 10906160.09 10906160.11 0.0506 0.0503

Saturn 25149-04-21 15:36 G 10906654.02 10906654.15 10906654.28 0.0293 0.0184

Saturn 25149-07-19 11:45 G 10906742.83 10906742.99 10906743.16 0.0293 0.0034

Saturn 25149-10-16 07:26 G 10906831.66 10906831.81 10906831.96 0.0292 0.0113

Saturn 25150-01-13 02:24 G 10906920.53 10906920.60 10906920.68 0.0292 0.0255

Jupiter 25154-02-13 08:24 G 10908412.70 10908412.85 10908413.01 0.0519 0.0169

Venus 25154-05-16 23:16 G 10908505.43 10908505.47 10908505.51 0.3691 0.3487

Mars 25154-09-14 05:16 G 10908625.59 10908625.72 10908625.85 0.1675 0.0023

Earth 25157-02-06 22:19 G 10909502.41 10909502.43 10909502.46 0.2673 0.2586

Moon 25157-02-06 22:33 G 10909502.42 10909502.44 10909502.45 0.2680 0.2642 *

Uranus 25159-04-09 22:04 G 10910294.35 10910294.42 10910294.49 0.0145 0.0124

Jupiter 25159-07-05 09:07 G 10910380.76 10910380.88 10910381.01 0.0510 0.0223

Uranus 25159-07-07 02:24 G 10910382.51 10910382.60 10910382.71 0.0145 0.0102

Jupiter 25159-10-02 17:45 G 10910470.15 10910470.24 10910470.34 0.0507 0.0362

Uranus 25159-10-03 07:12 G 10910470.68 10910470.80 10910470.93 0.0145 0.0079

Venus 25159-11-30 21:07 G 10910529.26 10910529.38 10910529.49 0.3692 0.1262

Uranus 25159-12-30 11:45 G 10910558.86 10910558.99 10910559.13 0.0145 0.0057

Uranus 25160-03-27 16:33 G 10910647.05 10910647.19 10910647.34 0.0145 0.0034

Uranus 25160-06-23 21:21 G 10910735.24 10910735.39 10910735.54 0.0145 0.0011

Uranus 25160-09-20 02:09 G 10910823.44 10910823.59 10910823.74 0.0145 0.0013

Uranus 25160-12-17 06:57 G 10910911.65 10910911.79 10910911.94 0.0145 0.0036

Uranus 25161-03-15 11:45 G 10910999.86 10910999.99 10911000.13 0.0145 0.0060

Uranus 25161-06-11 16:48 G 10911088.08 10911088.20 10911088.32 0.0145 0.0084

Venus 25161-06-12 18:00 G 10911089.18 10911089.25 10911089.33 0.3679 0.2738

Moon 25161-07-31 23:31 G 10911138.46 10911138.48 10911138.49 0.2653 0.2633

Earth 25161-08-01 00:14 G 10911138.47 10911138.51 10911138.54 0.2659 0.2575 *

Uranus 25161-09-07 21:21 G 10911176.31 10911176.39 10911176.51 0.0145 0.0109

Uranus 25161-12-05 02:24 G 10911264.55 10911264.60 10911264.67 0.0145 0.0132

Mars 25163-04-14 23:16 G 10911760.35 10911760.47 10911760.59 0.1869 0.0976

Moon 25164-01-31 17:02 G 10912052.12 10912052.21 10912052.29 0.2668 0.1807

Earth 25164-01-31 17:45 G 10912052.15 10912052.24 10912052.32 0.2673 0.1769 *

Saturn 25164-02-01 20:38 G 10912053.26 10912053.36 10912053.46 0.0267 0.0190

Mars 25164-02-04 13:26 G 10912055.95 10912056.06 10912056.18 0.1681 0.0804

Saturn 25164-04-30 08:38 G 10912141.72 10912141.86 10912141.99 0.0267 0.0097

Saturn 25164-07-27 20:38 G 10912230.21 10912230.36 10912230.50 0.0267 0.0001

Saturn 25164-10-24 08:52 G 10912318.74 10912318.87 10912319.01 0.0267 0.0098

Saturn 25165-01-20 21:21 G 10912407.30 10912407.39 10912407.50 0.0268 0.0197

Venus 25165-06-15 18:14 G 10912553.14 10912553.26 10912553.38 0.3693 0.0853

Jupiter 25165-12-02 07:55 G 10912722.66 10912722.83 10912722.99 0.0519 0.0020

Venus 25166-12-27 13:40 G 10913112.96 10913113.07 10913113.19 0.3678 0.0922

Venus 25170-12-30 15:07 G 10914577.06 10914577.13 10914577.21 0.3693 0.2877

Jupiter 25171-04-23 12:57 G 10914690.95 10914691.04 10914691.14 0.0511 0.0363

Jupiter 25171-07-21 21:21 G 10914780.27 10914780.39 10914780.52 0.0508 0.0219

Venus 25172-07-12 09:36 G 10915136.79 10915136.90 10915137.02 0.3678 0.0980

Mars 25172-09-04 02:09 G 10915190.46 10915190.59 10915190.73 0.1861 0.0368

Neptune 25172-12-29 16:33 G 10915307.18 10915307.19 10915307.21 0.0088 0.0088

Neptune 25173-03-27 18:14 G 10915395.21 10915395.26 10915395.32 0.0088 0.0080

Neptune 25173-06-23 19:40 G 10915483.26 10915483.32 10915483.41 0.0088 0.0074

Mars 25173-06-26 21:50 G 10915486.38 10915486.41 10915486.44 0.1688 0.1625

Neptune 25173-09-19 21:21 G 10915571.31 10915571.39 10915571.49 0.0088 0.0066

Neptune 25173-12-16 23:02 G 10915659.36 10915659.46 10915659.57 0.0088 0.0059

Neptune 25174-03-15 00:43 G 10915747.42 10915747.53 10915747.65 0.0088 0.0052

Neptune 25174-06-11 02:24 G 10915835.48 10915835.60 10915835.73 0.0088 0.0044

Moon 25174-08-04 01:12 G 10915889.41 10915889.55 10915889.69 0.2657 0.0443

Earth 25174-08-04 02:24 G 10915889.46 10915889.60 10915889.75 0.2658 0.0218 *

Neptune 25174-09-07 04:04 G 10915923.54 10915923.67 10915923.80 0.0088 0.0037

Neptune 25174-12-04 05:45 G 10916011.61 10916011.74 10916011.88 0.0088 0.0030

Neptune 25175-03-02 07:26 G 10916099.67 10916099.81 10916099.95 0.0088 0.0023

Neptune 25175-05-29 09:07 G 10916187.74 10916187.88 10916188.02 0.0088 0.0015

Neptune 25175-08-25 10:48 G 10916275.81 10916275.95 10916276.10 0.0088 0.0008

Neptune 25175-11-21 12:28 G 10916363.88 10916364.02 10916364.17 0.0088 0.0001

Neptune 25176-02-17 14:09 G 10916451.95 10916452.09 10916452.24 0.0088 0.0007

Neptune 25176-05-15 15:50 G 10916540.02 10916540.16 10916540.30 0.0088 0.0014

Neptune 25176-08-11 17:31 G 10916628.09 10916628.23 10916628.37 0.0088 0.0022

Neptune 25176-11-07 19:12 G 10916716.16 10916716.30 10916716.44 0.0088 0.0029

Moon 25177-02-02 12:00 G 10916802.88 10916803.00 10916803.11 0.2675 0.0409

Earth 25177-02-02 12:43 G 10916802.91 10916803.03 10916803.15 0.2673 0.0243 *

Neptune 25177-02-03 20:52 G 10916804.24 10916804.37 10916804.51 0.0088 0.0036

Neptune 25177-05-02 22:19 G 10916892.32 10916892.43 10916892.57 0.0088 0.0045

Neptune 25177-07-30 00:14 G 10916980.40 10916980.51 10916980.64 0.0088 0.0051

Jupiter 25177-09-20 07:26 G 10917032.66 10917032.81 10917032.97 0.0518 0.0196

Neptune 25177-10-26 01:55 G 10917068.48 10917068.58 10917068.70 0.0088 0.0059

Neptune 25178-01-22 03:36 G 10917156.57 10917156.65 10917156.76 0.0088 0.0067

Venus 25178-01-26 06:00 G 10917160.68 10917160.75 10917160.82 0.3677 0.2957

Neptune 25178-04-20 05:16 G 10917244.66 10917244.72 10917244.81 0.0088 0.0074

Neptune 25178-07-17 07:12 G 10917332.75 10917332.80 10917332.86 0.0088 0.0081

Saturn 25178-09-08 12:43 G 10917385.94 10917386.03 10917386.12 0.0293 0.0246

Saturn 25178-12-06 09:07 G 10917474.72 10917474.88 10917475.04 0.0293 0.0094

Saturn 25179-03-05 05:02 G 10917563.54 10917563.71 10917563.87 0.0292 0.0055

Saturn 25179-06-02 00:14 G 10917652.40 10917652.51 10917652.63 0.0292 0.0199

Mars 25182-01-25 04:48 G 10918620.66 10918620.70 10918620.75 0.1853 0.1734

Jupiter 25183-05-10 00:00 G 10919090.37 10919090.50 10919090.64 0.0509 0.0062

Mars 25184-10-22 21:21 G 10919622.28 10919622.39 10919622.50 0.1669 0.0976

Moon 25187-08-07 03:07 G 10920640.54 10920640.63 10920640.72 0.2660 0.2004

Earth 25187-08-07 04:19 G 10920640.59 10920640.68 10920640.77 0.2658 0.2060 *

Jupiter 25189-07-09 06:28 G 10921342.66 10921342.77 10921342.88 0.0517 0.0386

Jupiter 25189-10-07 08:38 G 10921432.75 10921432.86 10921432.98 0.0520 0.0379

Moon 25190-02-05 07:26 G 10921553.71 10921553.81 10921553.91 0.2678 0.1306

Earth 25190-02-05 07:55 G 10921553.73 10921553.83 10921553.94 0.2673 0.1316 *

Pluto 25191-10-04 22:48 G 10922160.41 10922160.45 10922160.51 0.0070 0.0064

Pluto 25191-12-31 23:16 G 10922248.40 10922248.47 10922248.56 0.0070 0.0055

Pluto 25192-03-29 00:00 G 10922336.41 10922336.50 10922336.61 0.0070 0.0045

Pluto 25192-06-25 00:28 G 10922424.42 10922424.52 10922424.64 0.0070 0.0036

Pluto 25192-09-21 01:12 G 10922512.43 10922512.55 10922512.68 0.0070 0.0026

Pluto 25192-12-18 01:55 G 10922600.45 10922600.58 10922600.71 0.0070 0.0016

Pluto 25193-03-16 02:24 G 10922688.47 10922688.60 10922688.73 0.0070 0.0007

Pluto 25193-06-12 03:07 G 10922776.50 10922776.63 10922776.76 0.0070 0.0003

Saturn 25193-06-20 23:31 G 10922785.40 10922785.48 10922785.57 0.0267 0.0211

Pluto 25193-09-08 03:36 G 10922864.52 10922864.65 10922864.78 0.0071 0.0013

Saturn 25193-09-17 11:31 G 10922873.85 10922873.98 10922874.11 0.0267 0.0118

Pluto 25193-12-05 04:04 G 10922952.55 10922952.67 10922952.80 0.0071 0.0023

Saturn 25193-12-14 23:31 G 10922962.34 10922962.48 10922962.62 0.0267 0.0022

Pluto 25194-03-03 04:33 G 10923040.59 10923040.69 10923040.82 0.0071 0.0033

Saturn 25194-03-13 11:45 G 10923050.85 10923050.99 10923051.13 0.0267 0.0076

Mars 25194-03-15 05:31 G 10923052.59 10923052.73 10923052.86 0.1675 0.0151

Pluto 25194-05-30 05:31 G 10923128.62 10923128.73 10923128.83 0.0071 0.0042

Saturn 25194-06-10 00:14 G 10923139.41 10923139.51 10923139.63 0.0268 0.0175

Pluto 25194-08-26 06:00 G 10923216.67 10923216.75 10923216.84 0.0071 0.0052

Pluto 25194-11-22 06:43 G 10923304.72 10923304.78 10923304.84 0.0071 0.0063

Jupiter 25195-02-26 03:36 G 10923400.51 10923400.65 10923400.78 0.0510 0.0087

Jupiter 25195-05-26 12:28 G 10923490.00 10923490.02 10923490.03 0.0506 0.0501

Uranus 25200-08-09 07:40 G 10925391.82 10925391.82 10925391.82 0.0133 0.0133

Uranus 25200-11-05 12:43 G 10925479.96 10925480.03 10925480.13 0.0133 0.0113

Uranus 25201-02-01 18:14 G 10925568.14 10925568.26 10925568.39 0.0133 0.0091

Uranus 25201-04-30 23:31 G 10925656.34 10925656.48 10925656.63 0.0133 0.0071

Jupiter 25201-07-26 07:12 G 10925742.64 10925742.80 10925742.95 0.0519 0.0179

Uranus 25201-07-28 04:48 G 10925744.55 10925744.70 10925744.86 0.0133 0.0050

Uranus 25201-10-24 10:04 G 10925832.76 10925832.92 10925833.09 0.0133 0.0029

Uranus 25202-01-20 15:21 G 10925920.97 10925921.14 10925921.30 0.0133 0.0009

Uranus 25202-04-18 20:24 G 10926009.19 10926009.35 10926009.52 0.0133 0.0011

Uranus 25202-07-16 01:26 G 10926097.40 10926097.56 10926097.72 0.0133 0.0031

Uranus 25202-10-12 06:28 G 10926185.62 10926185.77 10926185.93 0.0133 0.0051

Mars 25202-10-13 23:45 G 10926187.38 10926187.49 10926187.60 0.1869 0.1150

Uranus 25203-01-08 11:16 G 10926273.84 10926273.97 10926274.12 0.0133 0.0071

Uranus 25203-04-06 16:33 G 10926362.07 10926362.19 10926362.31 0.0133 0.0090

Uranus 25203-07-03 21:07 G 10926450.30 10926450.38 10926450.48 0.0133 0.0110

Mars 25203-08-05 13:40 G 10926482.95 10926483.07 10926483.19 0.1681 0.0686

Uranus 25203-09-30 02:09 G 10926538.56 10926538.59 10926538.63 0.0133 0.0129

Jupiter 25206-12-15 07:26 G 10927710.69 10927710.81 10927710.93 0.0511 0.0226

Jupiter 25207-03-14 16:04 G 10927800.07 10927800.17 10927800.27 0.0507 0.0360

Moon 25207-08-02 05:16 G 10927940.64 10927940.72 10927940.80 0.2654 0.2191

Earth 25207-08-02 06:14 G 10927940.67 10927940.76 10927940.84 0.2659 0.2097 *

Saturn 25208-01-26 13:12 G 10928118.02 10928118.05 10928118.10 0.0293 0.0283

Saturn 25208-04-24 09:50 G 10928206.77 10928206.91 10928207.07 0.0293 0.0130

Saturn 25208-07-22 06:00 G 10928295.58 10928295.75 10928295.91 0.0293 0.0021

Saturn 25208-10-19 01:12 G 10928384.42 10928384.55 10928384.69 0.0292 0.0166

Moon 25210-01-31 21:50 G 10928854.32 10928854.41 10928854.51 0.2669 0.1574

Earth 25210-01-31 22:33 G 10928854.35 10928854.44 10928854.54 0.2673 0.1455 *

Venus 25210-12-21 22:19 G 10929178.35 10929178.43 10929178.52 0.3692 0.2754

Mars 25212-03-05 02:38 G 10929617.47 10929617.61 10929617.75 0.1861 0.0216

Mars 25212-12-25 21:50 G 10929913.36 10929913.41 10929913.47 0.1688 0.1513

Jupiter 25213-05-14 06:00 G 10930052.59 10930052.75 10930052.92 0.0518 0.0018

Venus 25216-07-06 19:55 G 10931202.21 10931202.33 10931202.46 0.3692 0.0570

Venus 25218-01-17 16:33 G 10931762.10 10931762.19 10931762.29 0.3679 0.2144

Jupiter 25218-10-03 11:16 G 10932020.88 10932020.97 10932021.07 0.0511 0.0363

Jupiter 25218-12-31 19:55 G 10932110.20 10932110.33 10932110.45 0.0508 0.0220

Moon 25220-08-04 06:57 G 10932691.65 10932691.79 10932691.94 0.2657 0.0124

Earth 25220-08-04 08:24 G 10932691.71 10932691.85 10932691.99 0.2658 0.0251 *

Mars 25221-07-26 05:02 G 10933047.64 10933047.71 10933047.78 0.1853 0.1588

Venus 25222-01-20 17:16 G 10933226.11 10933226.22 10933226.33 0.3693 0.1535

Saturn 25222-11-08 01:12 G 10933517.50 10933517.55 10933517.62 0.0267 0.0242

Moon 25223-02-03 17:02 G 10933605.09 10933605.21 10933605.32 0.2676 0.0097

Earth 25223-02-03 17:45 G 10933605.12 10933605.24 10933605.36 0.2673 0.0081 *

Saturn 25223-02-04 13:12 G 10933605.93 10933606.05 10933606.17 0.0267 0.0149

Saturn 25223-05-04 00:57 G 10933694.41 10933694.54 10933694.69 0.0267 0.0055

Saturn 25223-07-31 13:12 G 10933782.91 10933783.05 10933783.20 0.0267 0.0043

Venus 25223-08-03 12:14 G 10933785.89 10933786.01 10933786.13 0.3678 0.0313

Saturn 25223-10-28 01:40 G 10933871.45 10933871.57 10933871.69 0.0267 0.0141

Saturn 25224-01-24 14:09 G 10933960.04 10933960.09 10933960.16 0.0268 0.0242

Mars 25224-04-22 21:36 G 10934049.30 10934049.40 10934049.50 0.1669 0.1100

Jupiter 25225-03-02 05:02 G 10934362.56 10934362.71 10934362.87 0.0518 0.0201

Venus 25227-08-06 14:09 G 10935250.05 10935250.09 10935250.12 0.3693 0.3532

Venus 25229-02-16 08:24 G 10935809.74 10935809.85 10935809.96 0.3678 0.1627

Jupiter 25230-07-22 15:21 G 10936331.11 10936331.14 10936331.16 0.0512 0.0502

Jupiter 25230-10-19 23:31 G 10936420.34 10936420.48 10936420.61 0.0509 0.0078

Moon 25233-08-07 09:21 G 10937442.82 10937442.89 10937442.95 0.2662 0.2324

Earth 25233-08-07 10:19 G 10937442.89 10937442.93 10937442.97 0.2658 0.2513 *

Mars 25233-09-13 05:45 G 10937479.61 10937479.74 10937479.87 0.1675 0.0271

Venus 25234-09-02 04:48 G 10937833.69 10937833.70 10937833.71 0.3677 0.3637

Moon 25236-02-06 12:43 G 10938355.93 10938356.03 10938356.12 0.2679 0.1540

Earth 25236-02-06 12:57 G 10938355.95 10938356.04 10938356.14 0.2673 0.1652 *

Jupiter 25236-12-19 04:33 G 10938672.59 10938672.69 10938672.81 0.0517 0.0382

Jupiter 25237-03-19 06:57 G 10938762.69 10938762.79 10938762.91 0.0520 0.0385

Saturn 25237-09-11 07:26 G 10938938.69 10938938.81 10938938.94 0.0293 0.0188

Saturn 25237-12-09 03:36 G 10939027.49 10939027.65 10939027.82 0.0292 0.0038

Saturn 25238-03-07 23:16 G 10939116.32 10939116.47 10939116.63 0.0292 0.0111

Saturn 25238-06-04 18:28 G 10939205.20 10939205.27 10939205.35 0.0292 0.0253

Mars 25242-04-14 00:14 G 10940614.41 10940614.51 10940614.60 0.1869 0.1314

Jupiter 25242-08-08 02:09 G 10940730.46 10940730.59 10940730.73 0.0510 0.0082

Jupiter 25242-11-05 11:02 G 10940819.95 10940819.96 10940819.96 0.0506 0.0505

Moon 25243-01-30 08:09 G 10940905.84 10940905.84 10940905.85 0.2666 0.2655

Earth 25243-01-30 08:38 G 10940905.85 10940905.86 10940905.87 0.2673 0.2643 *

Uranus 25243-02-01 00:43 G 10940907.51 10940907.53 10940907.57 0.0145 0.0140

Mars 25243-02-03 13:40 G 10940909.95 10940910.07 10940910.20 0.1681 0.0571

Uranus 25243-04-30 05:16 G 10940995.65 10940995.72 10940995.81 0.0145 0.0118

Uranus 25243-07-27 09:50 G 10941083.81 10941083.91 10941084.03 0.0145 0.0096

Uranus 25243-10-23 14:38 G 10941171.99 10941172.11 10941172.24 0.0145 0.0073

Uranus 25244-01-19 19:26 G 10941260.17 10941260.31 10941260.44 0.0145 0.0050

Uranus 25244-04-17 00:00 G 10941348.36 10941348.50 10941348.65 0.0145 0.0028

Uranus 25244-07-14 04:48 G 10941436.55 10941436.70 10941436.85 0.0145 0.0004

Uranus 25244-10-10 09:36 G 10941524.75 10941524.90 10941525.05 0.0145 0.0019

Uranus 25245-01-06 14:24 G 10941612.96 10941613.10 10941613.24 0.0145 0.0042

Uranus 25245-04-04 19:12 G 10941701.17 10941701.30 10941701.43 0.0145 0.0066

Uranus 25245-07-02 00:00 G 10941789.39 10941789.50 10941789.62 0.0145 0.0090

Uranus 25245-09-28 04:48 G 10941877.62 10941877.70 10941877.80 0.0145 0.0115

Uranus 25245-12-25 09:50 G 10941965.88 10941965.91 10941965.96 0.0145 0.0138

Jupiter 25249-01-05 06:28 G 10943072.62 10943072.77 10943072.92 0.0519 0.0198

Mars 25251-09-04 02:52 G 10944044.48 10944044.62 10944044.76 0.1861 0.0066

Saturn 25252-03-27 04:19 G 10944249.66 10944249.68 10944249.70 0.0267 0.0263

Saturn 25252-06-23 16:04 G 10944338.06 10944338.17 10944338.28 0.0267 0.0171

Mars 25252-06-25 22:04 G 10944340.35 10944340.42 10944340.49 0.1687 0.1393

Saturn 25252-09-20 04:04 G 10944426.53 10944426.67 10944426.81 0.0267 0.0076

Saturn 25252-12-17 16:04 G 10944515.03 10944515.17 10944515.32 0.0267 0.0022

Saturn 25253-03-16 04:33 G 10944603.56 10944603.69 10944603.82 0.0268 0.0119

Saturn 25253-06-12 17:16 G 10944692.14 10944692.22 10944692.30 0.0268 0.0220

Moon 25253-08-02 11:02 G 10944742.86 10944742.96 10944743.07 0.2655 0.1805

Earth 25253-08-02 12:14 G 10944742.90 10944743.01 10944743.12 0.2659 0.1608 *

Jupiter 25254-05-27 05:31 G 10945040.61 10945040.73 10945040.86 0.0511 0.0229

Jupiter 25254-08-24 14:09 G 10945130.00 10945130.09 10945130.19 0.0507 0.0357

Moon 25256-02-02 02:52 G 10945656.52 10945656.62 10945656.72 0.2671 0.1247

Earth 25256-02-02 03:36 G 10945656.55 10945656.65 10945656.76 0.2673 0.1140 *

Neptune 25256-12-16 08:52 G 10945974.82 10945974.87 10945974.92 0.0089 0.0084

Neptune 25257-03-14 11:31 G 10946062.90 10946062.98 10946063.08 0.0089 0.0075

Neptune 25257-06-10 14:09 G 10946150.99 10946151.09 10946151.22 0.0089 0.0066

Neptune 25257-09-06 17:02 G 10946239.09 10946239.21 10946239.36 0.0089 0.0057

Neptune 25257-12-03 20:09 G 10946327.19 10946327.34 10946327.49 0.0089 0.0048

Neptune 25258-03-01 22:48 G 10946415.30 10946415.45 10946415.61 0.0089 0.0038

Neptune 25258-05-29 01:40 G 10946503.41 10946503.57 10946503.73 0.0089 0.0029

Neptune 25258-08-25 04:19 G 10946591.52 10946591.68 10946591.85 0.0089 0.0020

Neptune 25258-11-21 07:12 G 10946679.63 10946679.80 10946679.97 0.0089 0.0011

Neptune 25259-02-17 09:50 G 10946767.74 10946767.91 10946768.09 0.0089 0.0003

Neptune 25259-05-16 12:43 G 10946855.86 10946856.03 10946856.20 0.0089 0.0007

Neptune 25259-08-12 15:21 G 10946943.97 10946944.14 10946944.31 0.0089 0.0016

Neptune 25259-11-08 18:00 G 10947032.09 10947032.25 10947032.42 0.0089 0.0025

Neptune 25260-02-04 20:38 G 10947120.21 10947120.36 10947120.52 0.0089 0.0034

Neptune 25260-05-02 23:16 G 10947208.33 10947208.47 10947208.63 0.0089 0.0043

Neptune 25260-07-30 02:09 G 10947296.45 10947296.59 10947296.73 0.0089 0.0052

Jupiter 25260-10-24 04:33 G 10947382.52 10947382.69 10947382.86 0.0518 0.0005

Neptune 25260-10-26 04:33 G 10947384.57 10947384.69 10947384.82 0.0089 0.0061

Neptune 25261-01-22 07:12 G 10947472.70 10947472.80 10947472.91 0.0089 0.0069

Mars 25261-01-24 05:31 G 10947474.64 10947474.73 10947474.83 0.1853 0.1415

Neptune 25261-04-20 09:36 G 10947560.84 10947560.90 10947561.00 0.0089 0.0079

Neptune 25261-07-17 12:43 G 10947648.99 10947649.03 10947649.06 0.0089 0.0087

Mars 25263-10-22 21:36 G 10948476.31 10948476.40 10948476.49 0.1668 0.1221

Jupiter 25266-03-15 09:21 G 10949350.80 10949350.89 10949350.99 0.0512 0.0368

Jupiter 25266-06-12 17:45 G 10949440.12 10949440.24 10949440.37 0.0508 0.0216

Moon 25266-08-05 12:57 G 10949493.91 10949494.04 10949494.18 0.2658 0.0534

Earth 25266-08-05 14:24 G 10949493.96 10949494.10 10949494.24 0.2658 0.0719 *

Saturn 25267-01-29 08:52 G 10949670.76 10949670.87 10949670.98 0.0293 0.0220

Saturn 25267-04-28 05:02 G 10949759.55 10949759.71 10949759.88 0.0293 0.0069

Saturn 25267-07-26 00:57 G 10949848.38 10949848.54 10949848.70 0.0293 0.0080

Venus 25267-07-28 21:36 G 10949851.29 10949851.40 10949851.50 0.3692 0.2027

Saturn 25267-10-22 20:09 G 10949937.24 10949937.34 10949937.45 0.0292 0.0223

Moon 25269-02-03 22:04 G 10950407.30 10950407.42 10950407.53 0.2676 0.0266

Earth 25269-02-03 22:48 G 10950407.33 10950407.45 10950407.56 0.2673 0.0401 *

Venus 25269-02-07 19:40 G 10950411.27 10950411.32 10950411.37 0.3679 0.3327

Jupiter 25272-08-12 03:21 G 10951692.48 10951692.64 10951692.79 0.0517 0.0198

Venus 25273-02-10 18:57 G 10951875.17 10951875.29 10951875.42 0.3692 0.0149

Mars 25273-03-14 05:45 G 10951906.61 10951906.74 10951906.87 0.1675 0.0383

Venus 25274-08-24 15:07 G 10952435.02 10952435.13 10952435.24 0.3679 0.1537

Pluto 25277-11-13 10:33 G 10953611.84 10953611.94 10953612.06 0.0074 0.0062

Jupiter 25278-01-01 13:26 G 10953661.04 10953661.06 10953661.08 0.0512 0.0505

Pluto 25278-02-09 13:12 G 10953699.90 10953700.05 10953700.21 0.0074 0.0045

Jupiter 25278-03-31 21:36 G 10953750.26 10953750.40 10953750.54 0.0509 0.0075

Pluto 25278-05-08 15:50 G 10953787.98 10953788.16 10953788.35 0.0074 0.0028

Pluto 25278-08-04 18:14 G 10953876.07 10953876.26 10953876.47 0.0073 0.0012

Venus 25278-08-27 16:04 G 10953899.08 10953899.17 10953899.27 0.3693 0.2215

Pluto 25278-10-31 20:52 G 10953964.18 10953964.37 10953964.57 0.0073 0.0006

Pluto 25279-01-27 23:16 G 10954052.29 10954052.47 10954052.67 0.0073 0.0022

Pluto 25279-04-26 01:55 G 10954140.42 10954140.58 10954140.75 0.0073 0.0038

Pluto 25279-07-23 04:04 G 10954228.56 10954228.67 10954228.82 0.0073 0.0055

Pluto 25279-10-19 06:28 G 10954316.75 10954316.77 10954316.83 0.0073 0.0071

Venus 25280-03-09 11:02 G 10954458.84 10954458.96 10954459.08 0.3678 0.0347

Mars 25281-10-13 00:14 G 10955041.43 10955041.51 10955041.60 0.1870 0.1459

Saturn 25281-11-10 18:00 G 10955070.17 10955070.25 10955070.35 0.0267 0.0199

Moon 25282-02-06 18:00 G 10955158.17 10955158.25 10955158.32 0.2680 0.2011

Earth 25282-02-06 18:00 G 10955158.18 10955158.25 10955158.33 0.2673 0.1975 *

Saturn 25282-02-07 06:00 G 10955158.62 10955158.75 10955158.88 0.0267 0.0105

Saturn 25282-05-06 18:14 G 10955247.11 10955247.26 10955247.40 0.0267 0.0012

Saturn 25282-08-03 06:28 G 10955335.63 10955335.77 10955335.91 0.0267 0.0089

Mars 25282-08-04 14:09 G 10955336.96 10955337.09 10955337.21 0.1681 0.0444

Saturn 25282-10-30 18:57 G 10955424.19 10955424.29 10955424.39 0.0268 0.0188

Jupiter 25284-05-31 02:09 G 10956002.48 10956002.59 10956002.70 0.0517 0.0390

Jupiter 25284-08-29 04:33 G 10956092.58 10956092.69 10956092.80 0.0520 0.0376

Uranus 25284-08-29 14:38 G 10956093.08 10956093.11 10956093.17 0.0133 0.0128

Uranus 25284-11-25 20:09 G 10956181.25 10956181.34 10956181.45 0.0133 0.0106

Uranus 25285-02-22 01:26 G 10956269.44 10956269.56 10956269.70 0.0133 0.0085

Uranus 25285-05-21 06:57 G 10956357.64 10956357.79 10956357.94 0.0133 0.0064

Uranus 25285-08-17 12:14 G 10956445.85 10956446.01 10956446.17 0.0133 0.0044

Venus 25285-09-23 07:12 G 10956482.70 10956482.80 10956482.89 0.3677 0.2292

Uranus 25285-11-13 17:31 G 10956534.06 10956534.23 10956534.39 0.0133 0.0023

Uranus 25286-02-09 22:33 G 10956622.28 10956622.44 10956622.61 0.0133 0.0003

Uranus 25286-05-09 03:36 G 10956710.49 10956710.65 10956710.82 0.0133 0.0018

Uranus 25286-08-05 08:52 G 10956798.71 10956798.87 10956799.03 0.0133 0.0037

Uranus 25286-11-01 13:40 G 10956886.93 10956887.07 10956887.23 0.0133 0.0058

Uranus 25287-01-28 18:43 G 10956975.15 10956975.28 10956975.42 0.0133 0.0077

Uranus 25287-04-26 23:45 G 10957063.38 10957063.49 10957063.60 0.0133 0.0096

Uranus 25287-07-24 04:19 G 10957151.62 10957151.68 10957151.77 0.0133 0.0117

Moon 25289-01-30 13:12 G 10957708.00 10957708.05 10957708.09 0.2667 0.2430

Earth 25289-01-30 13:40 G 10957708.01 10957708.07 10957708.12 0.2673 0.2331 *

Jupiter 25290-01-18 01:12 G 10958060.42 10958060.55 10958060.69 0.0510 0.0070

Mars 25291-03-05 03:21 G 10958471.50 10958471.64 10958471.78 0.1862 0.0114

Mars 25291-12-25 22:19 G 10958767.34 10958767.43 10958767.51 0.1687 0.1277

Jupiter 25296-06-17 04:19 G 10960402.53 10960402.68 10960402.84 0.0519 0.0199

Saturn 25296-06-17 06:28 G 10960402.72 10960402.77 10960402.83 0.0293 0.0277 *

Saturn 25296-09-14 03:07 G 10960491.48 10960491.63 10960491.78 0.0292 0.0124

Saturn 25296-12-11 23:02 G 10960580.30 10960580.46 10960580.63 0.0292 0.0026

Saturn 25297-03-10 18:28 G 10960669.14 10960669.27 10960669.40 0.0292 0.0171

Moon 25299-08-03 17:02 G 10961545.08 10961545.21 10961545.33 0.2656 0.1226

Earth 25299-08-03 18:14 G 10961545.13 10961545.26 10961545.39 0.2659 0.1136 *

Mars 25300-07-26 06:00 G 10961901.65 10961901.75 10961901.86 0.1853 0.1252

Jupiter 25301-11-07 04:04 G 10962370.55 10962370.67 10962370.80 0.0510 0.0225

Moon 25302-02-03 07:40 G 10962458.71 10962458.82 10962458.93 0.2673 0.0913

Earth 25302-02-03 08:38 G 10962458.75 10962458.86 10962458.97 0.2673 0.0830 *

Jupiter 25302-02-04 12:43 G 10962459.93 10962460.03 10962460.13 0.0507 0.0359

Mars 25303-04-23 21:50 G 10962903.33 10962903.41 10962903.49 0.1668 0.1343

Jupiter 25308-04-06 03:36 G 10964712.48 10964712.65 10964712.82 0.0518 0.0011

Saturn 25311-03-31 21:07 G 10965802.30 10965802.38 10965802.46 0.0267 0.0221

Saturn 25311-06-28 08:52 G 10965890.75 10965890.87 10965891.00 0.0267 0.0128

Saturn 25311-09-24 20:52 G 10965979.23 10965979.37 10965979.52 0.0267 0.0032

Saturn 25311-12-22 09:07 G 10966067.74 10966067.88 10966068.03 0.0268 0.0067

Saturn 25312-03-19 21:36 G 10966156.29 10966156.40 10966156.52 0.0268 0.0166

Saturn 25312-06-16 10:33 G 10966244.93 10966244.94 10966244.94 0.0268 0.0267

Moon 25312-08-06 19:12 G 10966296.17 10966296.30 10966296.43 0.2660 0.1014

Earth 25312-08-06 20:24 G 10966296.22 10966296.35 10966296.48 0.2658 0.1185 *

Mars 25312-09-13 06:00 G 10966333.62 10966333.75 10966333.87 0.1674 0.0509

Jupiter 25313-08-26 07:40 G 10966680.73 10966680.82 10966680.91 0.0511 0.0372

Jupiter 25313-11-23 15:50 G 10966770.04 10966770.16 10966770.29 0.0508 0.0210

Moon 25315-02-06 03:07 G 10967209.51 10967209.63 10967209.74 0.2676 0.0648

Earth 25315-02-06 03:50 G 10967209.54 10967209.66 10967209.77 0.2673 0.0722 *

Venus 25318-08-19 22:48 G 10968500.42 10968500.45 10968500.48 0.3691 0.3542

Jupiter 25320-01-24 01:26 G 10969022.41 10969022.56 10969022.72 0.0517 0.0194

Mars 25321-04-14 00:43 G 10969468.47 10969468.53 10969468.60 0.1870 0.1624

Mars 25322-02-03 14:09 G 10969763.96 10969764.09 10969764.22 0.1681 0.0330

Venus 25324-03-04 20:38 G 10970524.24 10970524.36 10970524.48 0.3692 0.1298

Jupiter 25325-06-14 11:31 G 10970990.98 10970990.98 10970990.98 0.0513 0.0512

Jupiter 25325-09-11 19:26 G 10971080.18 10971080.31 10971080.45 0.0509 0.0070

Venus 25325-09-15 18:14 G 10971084.18 10971084.26 10971084.33 0.3679 0.2737

Saturn 25326-02-02 05:02 G 10971223.57 10971223.71 10971223.85 0.0293 0.0152

Saturn 25326-05-02 01:12 G 10971312.38 10971312.55 10971312.71 0.0293 0.0006

Saturn 25326-07-29 20:38 G 10971401.22 10971401.36 10971401.50 0.0293 0.0145

Saturn 25326-10-26 15:36 G 10971490.13 10971490.15 10971490.18 0.0292 0.0287

Uranus 25327-02-22 08:24 G 10971608.81 10971608.85 10971608.92 0.0145 0.0133

Uranus 25327-05-21 13:12 G 10971696.96 10971697.05 10971697.14 0.0145 0.0110

Uranus 25327-08-17 17:45 G 10971785.13 10971785.24 10971785.36 0.0145 0.0088

Uranus 25327-11-13 22:19 G 10971873.30 10971873.43 10971873.56 0.0145 0.0066

Moon 25328-02-08 23:02 G 10971960.40 10971960.46 10971960.52 0.2680 0.2253

Earth 25328-02-08 23:02 G 10971960.41 10971960.46 10971960.52 0.2673 0.2304 *

Uranus 25328-02-10 02:52 G 10971961.49 10971961.62 10971961.77 0.0145 0.0043

Uranus 25328-05-08 07:40 G 10972049.68 10972049.82 10972049.97 0.0145 0.0020

Uranus 25328-08-04 12:28 G 10972137.87 10972138.02 10972138.17 0.0145 0.0003

Uranus 25328-10-31 17:16 G 10972226.07 10972226.22 10972226.36 0.0145 0.0026

Uranus 25329-01-27 22:04 G 10972314.28 10972314.42 10972314.56 0.0145 0.0050

Uranus 25329-04-26 02:52 G 10972402.49 10972402.62 10972402.75 0.0145 0.0074

Uranus 25329-07-23 07:40 G 10972490.72 10972490.82 10972490.94 0.0145 0.0098

Venus 25329-09-18 18:00 G 10972548.13 10972548.25 10972548.37 0.3693 0.0842

Uranus 25329-10-19 12:43 G 10972578.95 10972579.03 10972579.11 0.0145 0.0121

Mars 25330-09-04 03:36 G 10972898.52 10972898.65 10972898.79 0.1862 0.0278

Venus 25331-04-01 13:40 G 10973107.96 10973108.07 10973108.19 0.3678 0.0921

Mars 25331-06-26 22:19 G 10973194.34 10973194.43 10973194.53 0.1687 0.1158

Jupiter 25331-11-12 00:00 G 10973332.39 10973332.50 10973332.61 0.0516 0.0390

Jupiter 25332-02-10 02:24 G 10973422.49 10973422.60 10973422.71 0.0520 0.0375

Moon 25335-02-01 18:00 G 10974510.18 10974510.25 10974510.32 0.2668 0.2032

Earth 25335-02-01 18:28 G 10974510.20 10974510.27 10974510.35 0.2672 0.2022 *

Venus 25335-04-04 15:07 G 10974572.05 10974572.13 10974572.20 0.3693 0.2889

Venus 25336-10-15 09:36 G 10975131.79 10975131.90 10975132.02 0.3678 0.0983

Jupiter 25337-06-30 23:16 G 10975390.34 10975390.47 10975390.61 0.0510 0.0073

Neptune 25337-09-26 15:50 G 10975478.14 10975478.16 10975478.21 0.0088 0.0085

Neptune 25337-12-23 17:45 G 10975566.17 10975566.24 10975566.30 0.0088 0.0078

Neptune 25338-03-21 19:12 G 10975654.22 10975654.30 10975654.39 0.0088 0.0071

Neptune 25338-06-17 20:52 G 10975742.27 10975742.37 10975742.47 0.0088 0.0063

Neptune 25338-09-13 22:19 G 10975830.33 10975830.43 10975830.55 0.0088 0.0057

Neptune 25338-12-11 00:00 G 10975918.39 10975918.50 10975918.63 0.0088 0.0049

Neptune 25339-03-09 01:40 G 10976006.45 10976006.57 10976006.70 0.0088 0.0042

Neptune 25339-06-05 03:21 G 10976094.51 10976094.64 10976094.78 0.0088 0.0035

Neptune 25339-09-01 05:02 G 10976182.58 10976182.71 10976182.85 0.0088 0.0027

Neptune 25339-11-28 06:43 G 10976270.64 10976270.78 10976270.92 0.0088 0.0020

Mars 25340-01-25 06:14 G 10976328.65 10976328.76 10976328.88 0.1854 0.1103

Neptune 25340-02-24 08:24 G 10976358.71 10976358.85 10976359.00 0.0088 0.0013

Neptune 25340-05-22 10:04 G 10976446.78 10976446.92 10976447.07 0.0088 0.0006

Saturn 25340-08-17 23:31 G 10976534.43 10976534.48 10976534.54 0.0267 0.0246

Neptune 25340-08-18 11:45 G 10976534.85 10976534.99 10976535.14 0.0088 0.0002

Saturn 25340-11-14 11:16 G 10976622.86 10976622.97 10976623.09 0.0267 0.0153

Neptune 25340-11-14 13:26 G 10976622.92 10976623.06 10976623.21 0.0088 0.0010 *

Neptune 25341-02-10 15:07 G 10976710.99 10976711.13 10976711.28 0.0088 0.0017

Saturn 25341-02-10 23:16 G 10976711.33 10976711.47 10976711.61 0.0267 0.0058

Neptune 25341-05-09 16:48 G 10976799.06 10976799.20 10976799.34 0.0088 0.0024

Saturn 25341-05-10 11:31 G 10976799.84 10976799.98 10976800.12 0.0267 0.0039

Neptune 25341-08-05 18:28 G 10976887.14 10976887.27 10976887.41 0.0088 0.0032

Saturn 25341-08-07 00:00 G 10976888.37 10976888.50 10976888.62 0.0268 0.0138

Neptune 25341-11-01 20:09 G 10976975.21 10976975.34 10976975.48 0.0088 0.0039

Saturn 25341-11-03 12:28 G 10976976.96 10976977.02 10976977.09 0.0268 0.0238

Neptune 25342-01-28 22:04 G 10977063.29 10977063.42 10977063.54 0.0088 0.0047

Neptune 25342-04-26 23:31 G 10977151.37 10977151.48 10977151.60 0.0088 0.0054

Venus 25342-05-01 06:00 G 10977155.68 10977155.75 10977155.82 0.3677 0.2964

Neptune 25342-07-24 01:26 G 10977239.46 10977239.56 10977239.66 0.0088 0.0062

Neptune 25342-10-20 02:52 G 10977327.54 10977327.62 10977327.72 0.0088 0.0070

Mars 25342-10-22 22:04 G 10977330.36 10977330.42 10977330.48 0.1668 0.1471

Neptune 25343-01-16 04:33 G 10977415.64 10977415.69 10977415.78 0.0088 0.0077

Neptune 25343-04-14 06:28 G 10977503.74 10977503.77 10977503.82 0.0088 0.0084

Jupiter 25343-11-29 01:26 G 10977732.41 10977732.56 10977732.72 0.0519 0.0187

Moon 25345-08-04 23:02 G 10978347.32 10978347.46 10978347.59 0.2656 0.0905

Earth 25345-08-05 00:14 G 10978347.37 10978347.51 10978347.65 0.2659 0.0662 *

Moon 25348-02-04 12:43 G 10979260.92 10979261.03 10979261.14 0.2673 0.0669

Earth 25348-02-04 13:40 G 10979260.95 10979261.07 10979261.18 0.2673 0.0516 *

Jupiter 25349-04-19 03:07 G 10979700.50 10979700.63 10979700.75 0.0511 0.0215

Jupiter 25349-07-17 11:31 G 10979789.89 10979789.98 10979790.08 0.0507 0.0370

Mars 25352-03-14 06:14 G 10980760.64 10980760.76 10980760.88 0.1674 0.0633

Saturn 25355-06-22 03:07 G 10981955.52 10981955.63 10981955.75 0.0292 0.0205

Jupiter 25355-09-17 01:12 G 10982042.38 10982042.55 10982042.72 0.0518 0.0007

Saturn 25355-09-18 23:31 G 10982044.32 10982044.48 10982044.64 0.0292 0.0054

Saturn 25355-12-16 19:12 G 10982133.15 10982133.30 10982133.46 0.0292 0.0094

Saturn 25356-03-14 14:24 G 10982222.01 10982222.10 10982222.20 0.0292 0.0237

Moon 25358-08-08 01:12 G 10983098.43 10983098.55 10983098.66 0.2661 0.1544

Earth 25358-08-08 02:24 G 10983098.49 10983098.60 10983098.71 0.2658 0.1640 *

Mars 25360-10-13 01:12 G 10983895.52 10983895.55 10983895.59 0.1870 0.1793

Jupiter 25361-02-05 06:00 G 10984010.66 10984010.75 10984010.85 0.0511 0.0369

Moon 25361-02-06 08:09 G 10984011.74 10984011.84 10984011.95 0.2678 0.0976

Earth 25361-02-06 08:52 G 10984011.76 10984011.87 10984011.97 0.2673 0.1044 *

Jupiter 25361-05-05 14:24 G 10984099.97 10984100.10 10984100.22 0.0508 0.0212

Mars 25361-08-04 14:09 G 10984190.96 10984191.09 10984191.23 0.1681 0.0215

Jupiter 25367-07-06 00:14 G 10986352.35 10986352.51 10986352.67 0.0517 0.0184

Uranus 25368-09-19 22:04 G 10986794.35 10986794.42 10986794.48 0.0133 0.0122

Uranus 25368-12-17 03:21 G 10986882.53 10986882.64 10986882.75 0.0133 0.0101

Uranus 25369-03-15 08:24 G 10986970.73 10986970.85 10986971.00 0.0133 0.0081

Uranus 25369-06-11 13:55 G 10987058.93 10987059.08 10987059.24 0.0133 0.0059

Uranus 25369-09-07 19:12 G 10987147.14 10987147.30 10987147.46 0.0133 0.0039

Uranus 25369-12-05 00:28 G 10987235.35 10987235.52 10987235.69 0.0133 0.0018

Uranus 25370-03-03 05:45 G 10987323.57 10987323.74 10987323.90 0.0133 0.0004

Mars 25370-03-05 04:04 G 10987325.53 10987325.67 10987325.81 0.1862 0.0429

Saturn 25370-04-03 14:09 G 10987354.98 10987355.09 10987355.19 0.0267 0.0177

Uranus 25370-05-30 10:48 G 10987411.79 10987411.95 10987412.11 0.0133 0.0023

Saturn 25370-07-01 01:55 G 10987443.45 10987443.58 10987443.72 0.0268 0.0082

Uranus 25370-08-26 15:50 G 10987500.00 10987500.16 10987500.32 0.0133 0.0043

Saturn 25370-09-27 14:09 G 10987531.95 10987532.09 10987532.23 0.0268 0.0015

Uranus 25370-11-22 20:52 G 10987588.22 10987588.37 10987588.52 0.0133 0.0062

Saturn 25370-12-25 02:38 G 10987620.47 10987620.61 10987620.74 0.0268 0.0114

Mars 25370-12-25 22:33 G 10987621.34 10987621.44 10987621.54 0.1687 0.1040

Uranus 25371-02-19 01:40 G 10987676.45 10987676.57 10987676.71 0.0133 0.0082

Saturn 25371-03-23 15:07 G 10987709.05 10987709.13 10987709.22 0.0268 0.0215

Uranus 25371-05-18 06:43 G 10987764.68 10987764.78 10987764.89 0.0133 0.0102

Uranus 25371-08-14 11:31 G 10987852.92 10987852.98 10987853.06 0.0133 0.0121

Jupiter 25373-02-21 17:31 G 10988410.10 10988410.23 10988410.37 0.0509 0.0065

Moon 25374-02-09 04:04 G 10988762.66 10988762.67 10988762.68 0.2680 0.2662

Earth 25374-02-09 04:04 G 10988762.66 10988762.67 10988762.69 0.2673 0.2629 *

Venus 25375-03-26 22:04 G 10989173.34 10989173.42 10989173.50 0.3692 0.2798

Earth 25378-08-03 03:50 G 10990398.62 10990398.66 10990398.69 0.2659 0.2574

Jupiter 25379-04-23 22:04 G 10990662.31 10990662.42 10990662.53 0.0516 0.0389

Jupiter 25379-07-23 00:28 G 10990752.41 10990752.52 10990752.63 0.0520 0.0376

Mars 25379-07-26 06:43 G 10990755.66 10990755.78 10990755.91 0.1854 0.0929

Venus 25380-10-09 19:40 G 10991197.20 10991197.32 10991197.44 0.3692 0.0582

Moon 25381-02-01 22:48 G 10991312.37 10991312.45 10991312.53 0.2669 0.1865

Earth 25381-02-01 23:31 G 10991312.39 10991312.48 10991312.57 0.2672 0.1710 *

Venus 25382-04-22 16:33 G 10991757.10 10991757.19 10991757.29 0.3679 0.2143

Mars 25382-04-22 22:19 G 10991757.39 10991757.43 10991757.46 0.1668 0.1592

Saturn 25384-11-08 05:16 G 10992687.63 10992687.72 10992687.83 0.0293 0.0233

Jupiter 25384-12-10 21:07 G 10992720.25 10992720.38 10992720.52 0.0510 0.0082

Saturn 25385-02-05 01:55 G 10992776.42 10992776.58 10992776.74 0.0293 0.0080

Jupiter 25385-03-10 06:00 G 10992809.75 10992809.75 10992809.75 0.0507 0.0506

Saturn 25385-05-04 21:36 G 10992865.24 10992865.40 10992865.56 0.0293 0.0069

Saturn 25385-08-01 17:02 G 10992954.10 10992954.21 10992954.32 0.0292 0.0213

Venus 25386-04-25 17:02 G 10993221.10 10993221.21 10993221.32 0.3693 0.1536

Venus 25387-11-06 12:14 G 10993780.89 10993781.01 10993781.13 0.3678 0.0315

Jupiter 25391-05-10 23:16 G 10995062.32 10995062.47 10995062.63 0.0519 0.0184

Moon 25391-08-06 04:48 G 10995149.56 10995149.70 10995149.85 0.2657 0.0285

Earth 25391-08-06 06:14 G 10995149.62 10995149.76 10995149.90 0.2659 0.0201 *

Mars 25391-09-13 06:14 G 10995187.64 10995187.76 10995187.88 0.1674 0.0752

Venus 25391-11-09 13:55 G 10995245.05 10995245.08 10995245.11 0.3693 0.3551

Venus 25393-05-22 08:24 G 10995804.74 10995804.85 10995804.95 0.3678 0.1634

Moon 25394-02-04 17:45 G 10996063.12 10996063.24 10996063.35 0.2673 0.0261

Earth 25394-02-04 18:28 G 10996063.16 10996063.27 10996063.39 0.2673 0.0200 *

Jupiter 25396-09-29 00:57 G 10997030.42 10997030.54 10997030.67 0.0511 0.0222

Jupiter 25396-12-27 09:36 G 10997119.80 10997119.90 10997120.00 0.0507 0.0364

Venus 25398-12-06 04:33 G 10997828.68 10997828.69 10997828.71 0.3677 0.3631

Saturn 25399-08-21 16:48 G 10998087.11 10998087.20 10998087.30 0.0267 0.0200

Saturn 25399-11-18 04:48 G 10998175.57 10998175.70 10998175.83 0.0267 0.0106

Saturn 25400-02-14 16:48 G 10998264.06 10998264.20 10998264.34 0.0267 0.0010

Saturn 25400-05-14 05:02 G 10998352.57 10998352.71 10998352.85 0.0267 0.0089

Saturn 25400-08-10 17:31 G 10998441.13 10998441.23 10998441.34 0.0268 0.0189

Mars 25401-02-03 14:24 G 10998617.97 10998618.10 10998618.24 0.1680 0.0097

Jupiter 25403-02-27 22:19 G 10999372.26 10999372.43 10999372.59 0.0518 0.0015

Moon 25404-08-09 06:57 G 10999900.70 10999900.79 10999900.89 0.2662 0.1882

Earth 25404-08-09 08:09 G 10999900.76 10999900.84 10999900.93 0.2658 0.2095 *

Moon 25407-02-08 13:26 G 11000813.96 11000814.06 11000814.16 0.2679 0.1282

Earth 25407-02-08 13:55 G 11000813.98 11000814.08 11000814.18 0.2673 0.1371 *

Jupiter 25408-07-19 04:48 G 11001340.61 11001340.70 11001340.80 0.0512 0.0363

Jupiter 25408-10-16 13:12 G 11001429.92 11001430.05 11001430.17 0.0508 0.0220

Mars 25409-09-04 04:33 G 11001752.56 11001752.69 11001752.82 0.1862 0.0601

Mars 25410-06-26 22:48 G 11002048.34 11002048.45 11002048.56 0.1687 0.0918

Uranus 25411-03-15 16:19 G 11002310.11 11002310.18 11002310.25 0.0145 0.0125

Uranus 25411-06-11 20:38 G 11002398.27 11002398.36 11002398.47 0.0145 0.0103

Uranus 25411-09-08 01:12 G 11002486.44 11002486.55 11002486.68 0.0145 0.0081

Uranus 25411-12-05 06:00 G 11002574.62 11002574.75 11002574.89 0.0145 0.0058

Uranus 25412-03-02 10:33 G 11002662.80 11002662.94 11002663.09 0.0145 0.0036

Uranus 25412-05-29 15:21 G 11002750.99 11002751.14 11002751.29 0.0145 0.0013

Uranus 25412-08-25 20:09 G 11002839.19 11002839.34 11002839.49 0.0145 0.0011

Uranus 25412-11-22 00:57 G 11002927.39 11002927.54 11002927.68 0.0145 0.0034

Uranus 25413-02-18 05:45 G 11003015.60 11003015.74 11003015.87 0.0145 0.0057

Uranus 25413-05-17 10:33 G 11003103.82 11003103.94 11003104.06 0.0145 0.0081

Uranus 25413-08-13 15:21 G 11003192.04 11003192.14 11003192.25 0.0145 0.0105

Uranus 25413-11-09 20:09 G 11003280.28 11003280.34 11003280.42 0.0145 0.0129

Saturn 25414-03-29 03:50 G 11003419.63 11003419.66 11003419.70 0.0292 0.0284

Saturn 25414-06-26 00:28 G 11003508.37 11003508.52 11003508.67 0.0292 0.0130

Saturn 25414-09-22 20:24 G 11003597.19 11003597.35 11003597.52 0.0292 0.0021

Jupiter 25414-12-16 21:36 G 11003682.25 11003682.40 11003682.56 0.0517 0.0192

Saturn 25414-12-20 15:50 G 11003686.03 11003686.16 11003686.30 0.0292 0.0166

Mars 25419-01-25 07:12 G 11005182.67 11005182.80 11005182.93 0.1854 0.0767

Jupiter 25420-08-04 16:04 G 11005740.03 11005740.17 11005740.30 0.0509 0.0064

Neptune 25421-09-14 07:40 G 11006145.76 11006145.82 11006145.90 0.0089 0.0080

Neptune 25421-12-11 10:33 G 11006233.84 11006233.94 11006234.05 0.0089 0.0071

Neptune 25422-03-09 13:12 G 11006321.94 11006322.05 11006322.19 0.0089 0.0062

Neptune 25422-06-05 16:04 G 11006410.04 11006410.17 11006410.32 0.0089 0.0053

Neptune 25422-09-01 19:12 G 11006498.15 11006498.30 11006498.45 0.0089 0.0043

Neptune 25422-11-28 21:50 G 11006586.25 11006586.41 11006586.58 0.0089 0.0034

Neptune 25423-02-25 00:43 G 11006674.36 11006674.53 11006674.70 0.0089 0.0025

Neptune 25423-05-24 03:21 G 11006762.48 11006762.64 11006762.82 0.0089 0.0016

Neptune 25423-08-20 06:14 G 11006850.59 11006850.76 11006850.93 0.0089 0.0007

Neptune 25423-11-16 08:52 G 11006938.70 11006938.87 11006939.05 0.0089 0.0003

Neptune 25424-02-12 11:45 G 11007026.82 11007026.99 11007027.16 0.0089 0.0011

Neptune 25424-05-10 14:24 G 11007114.94 11007115.10 11007115.27 0.0089 0.0020

Moon 25424-08-04 08:52 G 11007200.78 11007200.87 11007200.95 0.2654 0.2148

Earth 25424-08-04 09:50 G 11007200.82 11007200.91 11007201.00 0.2659 0.2090 *

Neptune 25424-08-06 17:02 G 11007203.05 11007203.21 11007203.38 0.0089 0.0029

Neptune 25424-11-02 19:40 G 11007291.17 11007291.32 11007291.48 0.0089 0.0038

Neptune 25425-01-29 22:19 G 11007379.29 11007379.43 11007379.58 0.0089 0.0047

Neptune 25425-04-28 00:43 G 11007467.42 11007467.53 11007467.68 0.0089 0.0057

Neptune 25425-07-25 03:50 G 11007555.54 11007555.66 11007555.78 0.0089 0.0065

Neptune 25425-10-21 06:14 G 11007643.68 11007643.76 11007643.87 0.0089 0.0074

Neptune 25426-01-17 08:52 G 11007731.82 11007731.87 11007731.94 0.0089 0.0082

Jupiter 25426-10-04 20:24 G 11007992.24 11007992.35 11007992.47 0.0517 0.0383

Jupiter 25427-01-02 23:02 G 11008082.35 11008082.46 11008082.57 0.0520 0.0384

Moon 25427-02-04 03:36 G 11008114.56 11008114.65 11008114.75 0.2670 0.1442

Earth 25427-02-04 04:33 G 11008114.59 11008114.69 11008114.79 0.2672 0.1399 *

Saturn 25429-01-08 19:26 G 11008819.24 11008819.31 11008819.39 0.0268 0.0225

Saturn 25429-04-07 07:12 G 11008907.68 11008907.80 11008907.93 0.0268 0.0131

Saturn 25429-07-04 19:12 G 11008996.16 11008996.30 11008996.45 0.0268 0.0036

Saturn 25429-10-01 07:26 G 11009084.67 11009084.81 11009084.96 0.0268 0.0064

Saturn 25429-12-28 20:09 G 11009173.22 11009173.34 11009173.45 0.0268 0.0163

Saturn 25430-03-27 08:38 G 11009261.85 11009261.86 11009261.89 0.0268 0.0265

Mars 25431-03-15 06:28 G 11009614.66 11009614.77 11009614.88 0.1674 0.0874

Venus 25431-11-01 21:07 G 11009846.28 11009846.38 11009846.48 0.3692 0.2058

Jupiter 25432-05-23 19:26 G 11010050.17 11010050.31 11010050.44 0.0510 0.0087

Jupiter 25432-08-21 04:04 G 11010139.65 11010139.67 11010139.69 0.0506 0.0501

Venus 25433-05-14 19:40 G 11010406.28 11010406.32 11010406.37 0.3679 0.3323

Venus 25437-05-17 18:43 G 11011870.16 11011870.28 11011870.40 0.3692 0.0128

Moon 25437-08-07 11:02 G 11011951.81 11011951.96 11011952.10 0.2659 0.0073

Earth 25437-08-07 12:14 G 11011951.87 11011952.01 11011952.15 0.2659 0.0277 *

Jupiter 25438-10-21 21:07 G 11012392.23 11012392.38 11012392.54 0.0519 0.0184

Venus 25438-11-28 15:07 G 11012430.02 11012430.13 11012430.24 0.3679 0.1539

Pluto 25440-01-29 06:00 G 11012856.74 11012856.75 11012856.77 0.0070 0.0069

Moon 25440-02-06 22:48 G 11012865.33 11012865.45 11012865.57 0.2674 0.0047

Earth 25440-02-06 23:31 G 11012865.37 11012865.48 11012865.60 0.2673 0.0139 *

Pluto 25440-04-26 06:14 G 11012944.71 11012944.76 11012944.84 0.0070 0.0060

Pluto 25440-07-23 07:12 G 11013032.71 11013032.80 11013032.89 0.0070 0.0050

Mars 25440-08-04 14:38 G 11013044.98 11013045.11 11013045.24 0.1680 0.0040

Pluto 25440-10-19 07:26 G 11013120.72 11013120.81 11013120.93 0.0070 0.0041

Pluto 25441-01-15 08:24 G 11013208.73 11013208.85 11013208.96 0.0070 0.0031

Pluto 25441-04-13 08:38 G 11013296.75 11013296.86 11013296.99 0.0070 0.0023

Pluto 25441-07-10 09:21 G 11013384.77 11013384.89 11013385.02 0.0070 0.0012

Pluto 25441-10-06 10:04 G 11013472.79 11013472.92 11013473.05 0.0070 0.0003

Pluto 25442-01-02 10:33 G 11013560.81 11013560.94 11013561.07 0.0070 0.0008

Pluto 25442-03-31 11:16 G 11013648.84 11013648.97 11013649.10 0.0071 0.0017

Pluto 25442-06-27 11:45 G 11013736.87 11013736.99 11013737.12 0.0071 0.0027

Pluto 25442-09-23 12:14 G 11013824.91 11013825.01 11013825.13 0.0071 0.0037

Venus 25442-12-01 15:50 G 11013894.07 11013894.16 11013894.26 0.3693 0.2221

Pluto 25442-12-20 12:57 G 11013912.95 11013913.04 11013913.14 0.0071 0.0047

Pluto 25443-03-18 13:26 G 11014001.00 11014001.06 11014001.15 0.0071 0.0057

Pluto 25443-06-14 14:09 G 11014089.06 11014089.09 11014089.14 0.0071 0.0067

Saturn 25443-11-13 02:52 G 11014240.48 11014240.62 11014240.76 0.0293 0.0156

Saturn 25444-02-09 23:02 G 11014329.29 11014329.46 11014329.63 0.0293 0.0005

Jupiter 25444-03-11 22:48 G 11014360.33 11014360.45 11014360.57 0.0511 0.0230

Saturn 25444-05-08 18:28 G 11014418.13 11014418.27 11014418.42 0.0293 0.0143

Jupiter 25444-06-09 07:26 G 11014449.71 11014449.81 11014449.91 0.0508 0.0355

Venus 25444-06-13 11:02 G 11014453.84 11014453.96 11014454.07 0.3678 0.0355

Saturn 25444-08-05 13:40 G 11014507.04 11014507.07 11014507.11 0.0292 0.0285

Mars 25449-03-05 04:48 G 11016179.57 11016179.70 11016179.83 0.1862 0.0751

Mars 25449-12-25 22:48 G 11016475.34 11016475.45 11016475.57 0.1687 0.0800

Venus 25449-12-28 06:57 G 11016477.70 11016477.79 11016477.88 0.3678 0.2284

Jupiter 25450-08-09 19:55 G 11016702.16 11016702.33 11016702.50 0.0518 0.0012

Moon 25450-08-10 12:57 G 11016702.99 11016703.04 11016703.09 0.2662 0.2486

Earth 25450-08-10 14:09 G 11016703.05 11016703.09 11016703.13 0.2658 0.2543 *

Uranus 25452-10-11 04:48 G 11017495.63 11017495.70 11017495.80 0.0133 0.0117

Uranus 25453-01-07 10:19 G 11017583.82 11017583.93 11017584.06 0.0133 0.0095

Moon 25453-02-08 18:28 G 11017616.18 11017616.27 11017616.36 0.2679 0.1691

Earth 25453-02-08 18:43 G 11017616.19 11017616.28 11017616.37 0.2673 0.1692 *

Uranus 25453-04-05 15:36 G 11017672.02 11017672.15 11017672.30 0.0133 0.0075

Uranus 25453-07-02 21:07 G 11017760.23 11017760.38 11017760.54 0.0133 0.0053

Uranus 25453-09-29 02:24 G 11017848.44 11017848.60 11017848.77 0.0133 0.0033

Uranus 25453-12-26 07:40 G 11017936.65 11017936.82 11017936.99 0.0133 0.0012

Uranus 25454-03-24 12:43 G 11018024.87 11018025.03 11018025.20 0.0133 0.0009

Uranus 25454-06-20 18:00 G 11018113.09 11018113.25 11018113.41 0.0133 0.0028

Uranus 25454-09-16 22:48 G 11018201.30 11018201.45 11018201.61 0.0133 0.0049

Uranus 25454-12-14 03:50 G 11018289.53 11018289.66 11018289.81 0.0133 0.0068

Uranus 25455-03-12 08:52 G 11018377.75 11018377.87 11018378.00 0.0133 0.0088

Uranus 25455-06-08 13:40 G 11018465.99 11018466.07 11018466.18 0.0133 0.0107

Uranus 25455-09-04 18:43 G 11018554.24 11018554.28 11018554.33 0.0133 0.0126

Jupiter 25455-12-30 02:38 G 11018670.52 11018670.61 11018670.70 0.0512 0.0371

Jupiter 25456-03-28 11:02 G 11018759.83 11018759.96 11018760.08 0.0508 0.0212

Saturn 25458-05-28 22:33 G 11019551.39 11019551.44 11019551.49 0.0267 0.0246

Mars 25458-07-26 07:26 G 11019609.68 11019609.81 11019609.94 0.1854 0.0618

Saturn 25458-08-25 10:19 G 11019639.81 11019639.93 11019640.05 0.0267 0.0153

Saturn 25458-11-21 22:19 G 11019728.29 11019728.43 11019728.57 0.0267 0.0057

Saturn 25459-02-18 10:19 G 11019816.79 11019816.93 11019817.08 0.0267 0.0041

Saturn 25459-05-17 22:48 G 11019905.33 11019905.45 11019905.57 0.0268 0.0139

Mars 25459-05-18 07:12 G 11019905.77 11019905.80 11019905.83 0.1693 0.1630

Saturn 25459-08-14 11:16 G 11019993.92 11019993.97 11019994.04 0.0268 0.0241

Moon 25460-02-02 14:09 G 11020166.07 11020166.09 11020166.12 0.2666 0.2589

Earth 25460-02-02 14:38 G 11020166.08 11020166.11 11020166.13 0.2672 0.2575 *

Jupiter 25462-05-28 18:28 G 11021012.12 11021012.27 11021012.43 0.0517 0.0207

Jupiter 25467-10-18 06:28 G 11022980.77 11022980.77 11022980.78 0.0513 0.0511

Jupiter 25468-01-15 14:38 G 11023069.97 11023070.11 11023070.25 0.0509 0.0069

Moon 25470-08-05 14:52 G 11024003.01 11024003.12 11024003.22 0.2654 0.1800

Earth 25470-08-05 15:50 G 11024003.05 11024003.16 11024003.27 0.2659 0.1615 *

Mars 25470-09-13 06:43 G 11024041.67 11024041.78 11024041.89 0.1674 0.1003

Moon 25473-02-04 08:38 G 11024916.76 11024916.86 11024916.96 0.2670 0.1253

Earth 25473-02-04 09:21 G 11024916.79 11024916.89 11024917.00 0.2672 0.1087 *

Saturn 25473-04-01 01:40 G 11024972.45 11024972.57 11024972.69 0.0292 0.0204

Saturn 25473-06-28 21:50 G 11025061.25 11025061.41 11025061.58 0.0292 0.0054

Saturn 25473-09-25 17:45 G 11025150.08 11025150.24 11025150.40 0.0292 0.0096

Saturn 25473-12-23 12:57 G 11025238.95 11025239.04 11025239.13 0.0292 0.0239

Jupiter 25474-03-16 17:45 G 11025322.13 11025322.24 11025322.35 0.0516 0.0393

Jupiter 25474-06-14 20:24 G 11025412.24 11025412.35 11025412.46 0.0520 0.0374

Jupiter 25479-11-03 17:45 G 11027380.10 11027380.24 11027380.37 0.0510 0.0084

Jupiter 25480-02-01 02:24 G 11027469.59 11027469.60 11027469.62 0.0506 0.0502

Mars 25480-02-03 14:38 G 11027471.98 11027472.11 11027472.25 0.1680 0.0165

Venus 25482-11-22 22:19 G 11028495.41 11028495.43 11028495.46 0.3691 0.3599

Moon 25483-08-08 16:48 G 11028754.06 11028754.20 11028754.34 0.2660 0.0650

Earth 25483-08-08 18:14 G 11028754.12 11028754.26 11028754.40 0.2659 0.0739 *

Moon 25486-02-07 03:50 G 11029667.55 11029667.66 11029667.78 0.2676 0.0427

Earth 25486-02-07 04:33 G 11029667.58 11029667.69 11029667.81 0.2673 0.0449 *

Jupiter	25486-04-02 19:40 G	11029722.16	11029722.32	11029722.47	0.0519	0.0188
Saturn	25488-01-12 12:43 G	11030371.92	11030372.03	11030372.13	0.0268	0.0180
Saturn	25488-04-10 00:28 G	11030460.39	11030460.52	11030460.66	0.0268	0.0085
Venus	25488-06-07 20:09 G	11030519.23	11030519.34	11030519.46	0.3692	0.1340
Saturn	25488-07-07 12:43 G	11030548.88	11030549.03	11030549.17	0.0268	0.0014
Mars	25488-09-03 05:16 G	11030606.59	11030606.72	11030606.84	0.1863	0.0916
Saturn	25488-10-04 00:57 G	11030637.41	11030637.54	11030637.67	0.0268	0.0111
Saturn	25488-12-31 13:40 G	11030725.98	11030726.07	11030726.15	0.0268	0.0213
Mars	25489-06-25 23:02 G	11030902.34	11030902.46	11030902.58	0.1686	0.0680
Venus	25489-12-19 18:14 G	11031079.18	11031079.26	11031079.33	0.3679	0.2746
Jupiter	25491-08-22 21:07 G	11031690.26	11031690.38	11031690.50	0.0511	0.0232
Jupiter	25491-11-20 05:31 G	11031779.63	11031779.73	11031779.83	0.0507	0.0352
Venus	25493-12-22 17:45 G	11032543.12	11032543.24	11032543.36	0.3693	0.0833
Uranus	25495-01-06 18:57 G	11032923.27	11032923.29	11032923.33	0.0145	0.0141
Uranus	25495-04-04 23:31 G	11033011.41	11033011.48	11033011.57	0.0145	0.0119
Uranus	25495-07-02 04:04 G	11033099.57	11033099.67	11033099.79	0.0145	0.0097
Venus	25495-07-05 13:40 G	11033102.96	11033103.07	11033103.19	0.3679	0.0925
Uranus	25495-09-28 08:52 G	11033187.74	11033187.87	11033187.99	0.0145	0.0074
Uranus	25495-12-25 13:26 G	11033275.92	11033276.06	11033276.20	0.0145	0.0052
Uranus	25496-03-22 18:00 G	11033364.11	11033364.25	11033364.40	0.0145	0.0029
Uranus	25496-06-18 22:48 G	11033452.30	11033452.45	11033452.60	0.0145	0.0006
Uranus	25496-09-15 03:36 G	11033540.50	11033540.65	11033540.79	0.0145	0.0017
Uranus	25496-12-12 08:24 G	11033628.70	11033628.85	11033628.99	0.0145	0.0041
Uranus	25497-03-10 12:57 G	11033716.91	11033717.04	11033717.18	0.0145	0.0064
Uranus	25497-06-06 18:00 G	11033805.13	11033805.25	11033805.37	0.0145	0.0088
Uranus	25497-09-02 22:48 G	11033893.36	11033893.45	11033893.55	0.0145	0.0111
Uranus	25497-11-30 03:50 G	11033981.61	11033981.66	11033981.71	0.0145	0.0135
Jupiter	25498-01-19 17:45 G	11034032.07	11034032.24	11034032.41	0.0518	0.0014
Mars	25498-01-24 07:55 G	11034036.70	11034036.83	11034036.97	0.1854	0.0444
Mars	25498-11-16 07:12 G	11034332.75	11034332.80	11034332.86	0.1693	0.1521

Moon 25499-02-09 23:31 G 11034418.40 11034418.48 11034418.56 0.2679 0.1925

Earth 25499-02-09 23:45 G 11034418.42 11034418.49 11034418.57 0.2673 0.2021 *

Venus 25499-07-08 14:38 G 11034567.04 11034567.11 11034567.19 0.3693 0.2884

Venus 25501-01-19 09:36 G 11035126.78 11035126.90 11035127.01 0.3678 0.0973

Neptune 25502-06-25 15:21 G 11035649.10 11035649.14 11035649.20 0.0088 0.0082

Saturn 25502-08-20 03:50 G 11035704.56 11035704.66 11035704.76 0.0293 0.0232

Neptune 25502-09-21 17:16 G 11035737.14 11035737.22 11035737.29 0.0088 0.0075

Saturn 25502-11-17 00:14 G 11035793.35 11035793.51 11035793.67 0.0293 0.0079

Neptune 25502-12-18 18:43 G 11035825.19 11035825.28 11035825.37 0.0088 0.0068

Saturn 25503-02-13 20:09 G 11035882.18 11035882.34 11035882.50 0.0293 0.0070

Neptune 25503-03-16 20:24 G 11035913.25 11035913.35 11035913.46 0.0088 0.0060

Saturn 25503-05-13 15:21 G 11035971.04 11035971.14 11035971.26 0.0292 0.0216

Jupiter 25503-06-12 00:43 G 11036000.44 11036000.53 11036000.62 0.0512 0.0378

Neptune 25503-06-12 21:50 G 11036001.31 11036001.41 11036001.53 0.0088 0.0054

Neptune 25503-09-08 23:31 G 11036089.37 11036089.48 11036089.61 0.0088 0.0046

Jupiter 25503-09-09 08:52 G 11036089.74 11036089.87 11036090.00 0.0509 0.0204

Neptune 25503-12-06 01:12 G 11036177.43 11036177.55 11036177.68 0.0088 0.0039

Neptune 25504-03-03 02:52 G 11036265.49 11036265.62 11036265.76 0.0088 0.0032

Neptune 25504-05-30 04:33 G 11036353.55 11036353.69 11036353.83 0.0088 0.0024

Neptune 25504-08-26 06:14 G 11036441.62 11036441.76 11036441.90 0.0088 0.0017

Neptune 25504-11-22 07:55 G 11036529.69 11036529.83 11036529.97 0.0088 0.0010

Neptune 25505-02-18 09:36 G 11036617.76 11036617.90 11036618.05 0.0088 0.0002

Neptune 25505-05-17 11:16 G 11036705.83 11036705.97 11036706.12 0.0088 0.0005

Neptune 25505-08-13 12:57 G 11036793.90 11036794.04 11036794.18 0.0088 0.0013

Neptune 25505-11-09 14:38 G 11036881.97 11036882.11 11036882.25 0.0088 0.0020

Moon 25506-02-03 18:57 G 11036968.24 11036968.29 11036968.34 0.2667 0.2338

Earth 25506-02-03 19:26 G 11036968.25 11036968.31 11036968.37 0.2672 0.2269 *

Neptune 25506-02-05 16:19 G 11036970.04 11036970.18 11036970.32 0.0088 0.0027

Neptune 25506-05-04 17:45 G 11037058.12 11037058.24 11037058.39 0.0088 0.0035

Neptune 25506-07-31 19:40 G 11037146.19 11037146.32 11037146.45 0.0088 0.0042

Venus 25506-08-05 05:45 G 11037150.67 11037150.74 11037150.81 0.3677 0.2953

Neptune 25506-10-27 21:07 G 11037234.27 11037234.38 11037234.51 0.0088 0.0050

Neptune 25507-01-23 23:02 G 11037322.35 11037322.46 11037322.58 0.0088 0.0057

Neptune 25507-04-22 00:28 G 11037410.44 11037410.52 11037410.64 0.0088 0.0066

Mars 25507-06-17 10:19 G 11037466.92 11037466.93 11037466.94 0.1846 0.1833

Neptune 25507-07-19 02:24 G 11037498.53 11037498.60 11037498.69 0.0088 0.0073

Neptune 25507-10-15 04:04 G 11037586.62 11037586.67 11037586.74 0.0088 0.0080

Neptune 25508-01-11 06:00 G 11037674.74 11037674.75 11037674.77 0.0088 0.0087

Jupiter 25509-11-08 16:19 G 11038342.03 11038342.18 11038342.34 0.0517 0.0209

Mars 25510-03-15 06:43 G 11038468.69 11038468.78 11038468.88 0.1674 0.1122

Jupiter 25515-06-28 12:28 G 11040399.89 11040400.02 11040400.16 0.0509 0.0063

Moon 25516-08-06 20:38 G 11040805.24 11040805.36 11040805.49 0.2656 0.1262

Earth 25516-08-06 21:50 G 11040805.28 11040805.41 11040805.54 0.2659 0.1136 *

Saturn 25517-06-01 15:36 G 11041104.07 11041104.15 11041104.25 0.0267 0.0201

Saturn 25517-08-29 03:36 G 11041192.52 11041192.65 11041192.78 0.0267 0.0106

Saturn 25517-11-25 15:36 G 11041281.01 11041281.15 11041281.30 0.0267 0.0011

Saturn 25518-02-22 03:50 G 11041369.53 11041369.66 11041369.80 0.0267 0.0089

Saturn 25518-05-21 16:19 G 11041458.08 11041458.18 11041458.29 0.0268 0.0190

Moon 25519-02-06 13:40 G 11041718.96 11041719.07 11041719.18 0.2671 0.0823

Earth 25519-02-06 14:24 G 11041718.99 11041719.10 11041719.21 0.2672 0.0769 *

Mars 25519-08-05 15:07 G 11041898.99 11041899.13 11041899.26 0.1680 0.0292

Jupiter 25521-08-27 14:38 G 11042652.01 11042652.11 11042652.22 0.0516 0.0407

Jupiter 25521-11-25 17:16 G 11042742.11 11042742.22 11042742.34 0.0520 0.0360

Pluto 25526-03-10 13:40 G 11044308.06 11044308.07 11044308.13 0.0074 0.0073

Pluto 25526-06-06 16:19 G 11044396.07 11044396.18 11044396.33 0.0074 0.0056

Pluto 25526-09-02 19:12 G 11044484.14 11044484.30 11044484.48 0.0074 0.0039

Pluto 25526-11-29 21:50 G 11044572.23 11044572.41 11044572.61 0.0073 0.0022

Pluto 25527-02-26 00:28 G 11044660.32 11044660.52 11044660.72 0.0073 0.0005

Jupiter 25527-04-16 16:19 G 11044710.04 11044710.18 11044710.31 0.0510 0.0081

Pluto 25527-05-25 02:52 G 11044748.43 11044748.62 11044748.82 0.0073 0.0012

Jupiter 25527-07-15 00:57 G 11044799.54 11044799.54 11044799.54 0.0507 0.0507

Pluto 25527-08-21 05:31 G 11044836.55 11044836.73 11044836.92 0.0073 0.0028

Pluto 25527-11-17 07:40 G 11044924.68 11044924.82 11044924.99 0.0073 0.0045

Pluto 25528-02-13 10:19 G 11045012.83 11045012.93 11045013.05 0.0073 0.0061

Mars 25528-03-05 05:31 G 11045033.62 11045033.73 11045033.85 0.1863 0.1080

Mars 25528-12-25 23:02 G 11045329.34 11045329.46 11045329.59 0.1686 0.0562

Moon 25529-08-09 22:48 G 11045556.32 11045556.45 11045556.58 0.2661 0.0959

Earth 25529-08-10 00:00 G 11045556.38 11045556.50 11045556.63 0.2659 0.1202 *

Saturn 25532-01-07 02:38 G 11046436.57 11046436.61 11046436.66 0.0292 0.0281

Moon 25532-02-09 09:07 G 11046469.76 11046469.88 11046469.99 0.2677 0.0632

Earth 25532-02-09 09:36 G 11046469.79 11046469.90 11046470.01 0.2672 0.0774 *

Saturn 25532-04-04 23:16 G 11046525.32 11046525.47 11046525.62 0.0292 0.0127

Saturn 25532-07-02 19:26 G 11046614.14 11046614.31 11046614.47 0.0292 0.0024

Saturn 25532-09-29 14:52 G 11046702.99 11046703.12 11046703.25 0.0292 0.0170

Jupiter 25533-09-13 16:48 G 11047052.05 11047052.20 11047052.36 0.0519 0.0179

Uranus 25536-08-05 06:28 G 11048108.76 11048108.77 11048108.79 0.0133 0.0133

Uranus 25536-11-01 11:45 G 11048196.91 11048196.99 11048197.09 0.0133 0.0112

Uranus 25537-01-28 17:16 G 11048285.10 11048285.22 11048285.35 0.0133 0.0090

Uranus 25537-04-26 22:33 G 11048373.30 11048373.44 11048373.59 0.0133 0.0070

Uranus 25537-07-24 03:50 G 11048461.51 11048461.66 11048461.82 0.0133 0.0049

Mars 25537-07-26 08:24 G 11048463.71 11048463.85 11048463.99 0.1854 0.0281

Uranus 25537-10-20 09:07 G 11048549.72 11048549.88 11048550.05 0.0133 0.0029

Uranus 25538-01-16 14:24 G 11048637.93 11048638.10 11048638.27 0.0133 0.0008

Uranus 25538-04-14 19:40 G 11048726.15 11048726.32 11048726.48 0.0133 0.0013

Mars 25538-05-18 07:26 G 11048759.74 11048759.81 11048759.88 0.1693 0.1397

Uranus 25538-07-12 00:43 G 11048814.37 11048814.53 11048814.69 0.0133 0.0033

Uranus 25538-10-08 05:45 G 11048902.59 11048902.74 11048902.89 0.0133 0.0052

Uranus 25539-01-04 10:48 G 11048990.81 11048990.95 11048991.09 0.0133 0.0072

Jupiter 25539-02-02 19:40 G 11049020.20 11049020.32 11049020.44 0.0511 0.0230

Uranus 25539-04-02 15:36 G 11049079.04 11049079.15 11049079.28 0.0133 0.0092

Jupiter 25539-05-03 03:50 G 11049109.57 11049109.66 11049109.76 0.0507 0.0354

Uranus 25539-06-29 20:38 G 11049167.28 11049167.36 11049167.45 0.0133 0.0111

Venus 25539-06-30 21:21 G 11049168.32 11049168.39 11049168.47 0.3691 0.2863

Uranus 25539-09-26 01:40 G 11049255.54 11049255.57 11049255.60 0.0133 0.0131

Venus 25545-01-13 19:12 G 11051192.18 11051192.30 11051192.43 0.3692 0.0620

Moon 25545-02-11 04:48 G 11051220.65 11051220.70 11051220.75 0.2679 0.2390

Earth 25545-02-11 04:48 G 11051220.65 11051220.70 11051220.76 0.2673 0.2345 *

Jupiter 25545-07-02 16:04 G 11051362.00 11051362.17 11051362.34 0.0518 0.0009

Venus 25546-07-27 16:33 G 11051752.10 11051752.19 11051752.29 0.3679 0.2149

Saturn 25546-10-19 17:45 G 11051836.17 11051836.24 11051836.32 0.0268 0.0230

Mars 25546-12-16 10:48 G 11051893.89 11051893.95 11051894.02 0.1846 0.1656

Saturn 25547-01-16 05:31 G 11051924.61 11051924.73 11051924.86 0.0268 0.0136

Saturn 25547-04-14 17:31 G 11052013.09 11052013.23 11052013.38 0.0268 0.0040

Saturn 25547-07-12 05:45 G 11052101.60 11052101.74 11052101.88 0.0268 0.0059

Saturn 25547-10-08 18:14 G 11052190.14 11052190.26 11052190.38 0.0268 0.0159

Saturn 25548-01-05 06:57 G 11052278.76 11052278.79 11052278.82 0.0268 0.0261

Mars 25549-09-13 06:57 G 11052895.71 11052895.79 11052895.88 0.1673 0.1248

Venus 25550-07-30 16:33 G 11053216.08 11053216.19 11053216.30 0.3693 0.1523

Jupiter 25550-11-21 23:02 G 11053330.37 11053330.46 11053330.55 0.0511 0.0376

Jupiter 25551-02-19 07:12 G 11053419.68 11053419.80 11053419.93 0.0508 0.0205

Moon 25552-02-04 23:45 G 11053770.42 11053770.49 11053770.57 0.2668 0.2060

Earth 25552-02-05 00:28 G 11053770.44 11053770.52 11053770.60 0.2672 0.1959 *

Venus 25552-02-10 12:14 G 11053775.89 11053776.01 11053776.13 0.3678 0.0311

Venus 25556-02-13 13:40 G 11055240.04 11055240.07 11055240.10 0.3693 0.3557

Jupiter 25557-04-20 14:09 G 11055671.94 11055672.09 11055672.25 0.0517 0.0209

Venus 25557-08-26 08:09 G 11055799.74 11055799.84 11055799.95 0.3678 0.1632

Mars 25559-02-03 15:07 G 11056326.00 11056326.13 11056326.26 0.1680 0.0401

Saturn 25561-08-23 01:12 G 11057257.41 11057257.55 11057257.69 0.0293 0.0156

Saturn 25561-11-19 21:21 G 11057346.23 11057346.39 11057346.56 0.0293 0.0006

Saturn 25562-02-16 17:02 G 11057435.07 11057435.21 11057435.36 0.0293 0.0143

Saturn 25562-05-16 12:00 G 11057523.98 11057524.00 11057524.04 0.0292 0.0287

Moon 25562-08-08 02:38 G 11057607.47 11057607.61 11057607.74 0.2658 0.0809

Earth 25562-08-08 03:50 G 11057607.52 11057607.66 11057607.80 0.2659 0.0662 *

Jupiter 25562-12-08 10:33 G 11057729.80 11057729.94 11057730.07 0.0510 0.0056

Venus 25563-03-12 04:33 G 11057823.67 11057823.69 11057823.70 0.3677 0.3637

Moon 25565-02-06 18:43 G 11058521.17 11058521.28 11058521.39 0.2672 0.0585

Earth 25565-02-06 19:26 G 11058521.20 11058521.31 11058521.43 0.2672 0.0451 *

Mars 25567-09-04 06:00 G 11059460.64 11059460.75 11059460.85 0.1863 0.1238

Mars 25568-06-25 23:16 G 11059756.35 11059756.47 11059756.60 0.1686 0.0436

Jupiter 25569-02-06 12:43 G 11059981.93 11059982.03 11059982.13 0.0516 0.0405

Jupiter 25569-05-07 15:21 G 11060072.02 11060072.14 11060072.26 0.0519 0.0361

Jupiter 25574-09-26 14:09 G 11062039.96 11062040.09 11062040.23 0.0510 0.0087

Jupiter 25574-12-24 22:48 G 11062129.44 11062129.45 11062129.47 0.0507 0.0501

Moon 25575-08-11 04:48 G 11062358.58 11062358.70 11062358.81 0.2661 0.1550

Earth 25575-08-11 06:00 G 11062358.64 11062358.75 11062358.86 0.2659 0.1659 *

Saturn 25576-03-07 20:52 G 11062568.33 11062568.37 11062568.43 0.0267 0.0249

Saturn 25576-06-04 08:52 G 11062656.75 11062656.87 11062656.98 0.0267 0.0155

Saturn 25576-08-31 20:38 G 11062745.23 11062745.36 11062745.51 0.0267 0.0061

Saturn 25576-11-28 08:52 G 11062833.73 11062833.87 11062834.01 0.0267 0.0037

Mars 25577-01-24 08:38 G 11062890.72 11062890.86 11062891.00 0.1855 0.0129

Saturn 25577-02-24 21:21 G 11062922.26 11062922.39 11062922.51 0.0267 0.0137

Saturn 25577-05-24 09:50 G 11063010.85 11063010.91 11063010.98 0.0268 0.0238

Mars 25577-11-16 07:40 G 11063186.73 11063186.82 11063186.90 0.1693 0.1275

Moon 25578-02-09 13:55 G 11063271.98 11063272.08 11063272.19 0.2677 0.1074

Earth 25578-02-09 14:38 G 11063272.00 11063272.11 11063272.22 0.2672 0.1095 *

Uranus 25579-01-28 01:55 G 11063624.55 11063624.58 11063624.64 0.0145 0.0137

Uranus 25579-04-26 06:28 G 11063712.69 11063712.77 11063712.87 0.0145 0.0115

Uranus 25579-07-23 11:02 G 11063800.86 11063800.96 11063801.08 0.0145 0.0093

Uranus 25579-10-19 15:50 G 11063889.03 11063889.16 11063889.29 0.0145 0.0070

Uranus 25580-01-15 20:24 G 11063977.21 11063977.35 11063977.49 0.0145 0.0048

Uranus 25580-04-13 00:57 G 11064065.40 11064065.54 11064065.69 0.0145 0.0025

Uranus 25580-07-10 05:45 G 11064153.59 11064153.74 11064153.89 0.0145 0.0002

Uranus 25580-10-06 10:19 G 11064241.79 11064241.93 11064242.08 0.0145 0.0022

Uranus 25581-01-02 15:07 G 11064329.99 11064330.13 11064330.28 0.0145 0.0045

Jupiter 25581-02-23 14:09 G 11064381.93 11064382.09 11064382.25 0.0519 0.0167

Uranus 25581-03-31 19:55 G 11064418.20 11064418.33 11064418.47 0.0145 0.0068

Uranus 25581-06-28 00:43 G 11064506.42 11064506.53 11064506.65 0.0145 0.0092

Uranus 25581-09-24 05:31 G 11064594.65 11064594.73 11064594.83 0.0145 0.0116

Uranus 25581-12-21 10:19 G 11064682.91 11064682.93 11064682.98 0.0145 0.0141

Neptune 25586-03-16 03:50 G 11066228.63 11066228.66 11066228.72 0.0089 0.0085

Neptune 25586-06-12 06:43 G 11066316.70 11066316.78 11066316.88 0.0089 0.0076

Mars 25586-06-16 11:16 G 11066320.89 11066320.97 11066321.06 0.1846 0.1491

Jupiter 25586-07-15 18:00 G 11066350.13 11066350.25 11066350.37 0.0511 0.0227

Neptune 25586-09-08 09:21 G 11066404.80 11066404.89 11066405.03 0.0089 0.0068

Jupiter 25586-10-13 02:24 G 11066439.51 11066439.60 11066439.70 0.0508 0.0358

Neptune 25586-12-05 12:43 G 11066492.90 11066493.03 11066493.16 0.0089 0.0057

Neptune 25587-03-03 15:21 G 11066581.00 11066581.14 11066581.29 0.0089 0.0048

Neptune 25587-05-30 18:00 G 11066669.11 11066669.25 11066669.42 0.0089 0.0040

Neptune 25587-08-26 20:52 G 11066757.22 11066757.37 11066757.54 0.0089 0.0030

Neptune 25587-11-22 23:45 G 11066845.33 11066845.49 11066845.66 0.0089 0.0021

Neptune 25588-02-19 02:38 G 11066933.44 11066933.61 11066933.78 0.0089 0.0012

Neptune 25588-05-17 05:31 G 11067021.55 11067021.73 11067021.90 0.0089 0.0003

Neptune 25588-08-13 08:09 G 11067109.67 11067109.84 11067110.01 0.0089 0.0007

Neptune 25588-11-09 10:48 G 11067197.78 11067197.95 11067198.12 0.0089 0.0016

Neptune 25589-02-05 13:40 G 11067285.90 11067286.07 11067286.23 0.0089 0.0025

Mars 25589-03-14 07:12 G 11067322.73 11067322.80 11067322.87 0.1673 0.1373

Neptune 25589-05-04 16:19 G 11067374.02 11067374.18 11067374.34 0.0089 0.0033

Neptune 25589-07-31 18:57 G 11067462.14 11067462.29 11067462.44 0.0089 0.0042

Neptune 25589-10-27 21:36 G 11067550.27 11067550.40 11067550.54 0.0089 0.0051

Neptune 25590-01-24 00:14 G 11067638.39 11067638.51 11067638.64 0.0089 0.0060

Neptune 25590-04-22 02:38 G 11067726.52 11067726.61 11067726.73 0.0089 0.0069

Neptune 25590-07-19 05:16 G 11067814.66 11067814.72 11067814.82 0.0089 0.0078

Neptune 25590-10-15 08:09 G 11067902.81 11067902.84 11067902.88 0.0089 0.0087

Saturn 25591-01-10 00:00 G 11067989.38 11067989.50 11067989.62 0.0292 0.0205

Moon 25591-02-12 10:04 G 11068022.90 11068022.92 11068022.94 0.2679 0.2633

Saturn 25591-04-08 20:24 G 11068078.18 11068078.35 11068078.51 0.0292 0.0053

Saturn 25591-07-06 16:04 G 11068167.02 11068167.17 11068167.33 0.0292 0.0097

Saturn 25591-10-03 11:16 G 11068255.89 11068255.97 11068256.07 0.0292 0.0241

Jupiter 25592-12-12 13:26 G 11068691.89 11068692.06 11068692.23 0.0518 0.0018

Moon 25595-08-06 06:28 G 11069658.75 11069658.77 11069658.80 0.2654 0.2594

Earth 25595-08-06 07:26 G 11069658.77 11069658.81 11069658.84 0.2660 0.2578 *

Venus 25596-02-04 20:38 G 11069841.26 11069841.36 11069841.46 0.3692 0.2112

Venus 25597-08-17 19:55 G 11070401.28 11070401.33 11070401.37 0.3679 0.3331

Moon 25598-02-05 04:48 G 11070572.61 11070572.70 11070572.79 0.2668 0.1708

Earth 25598-02-05 05:31 G 11070572.64 11070572.73 11070572.82 0.2672 0.1652 *

Jupiter 25598-05-03 21:36 G 11070660.31 11070660.40 11070660.49 0.0512 0.0372

Jupiter 25598-08-01 05:45 G 11070749.61 11070749.74 11070749.87 0.0508 0.0208

Mars 25598-08-04 15:21 G 11070753.01 11070753.14 11070753.26 0.1680 0.0528

Venus 25601-08-20 18:14 G 11071865.14 11071865.26 11071865.39 0.3692 0.0157

Venus 25603-03-03 15:07 G 11072425.03 11072425.13 11072425.24 0.3679 0.1537

Jupiter 25604-09-30 12:28 G 11073001.87 11073002.02 11073002.18 0.0517 0.0205

Saturn 25605-10-22 10:33 G 11073388.84 11073388.94 11073389.04 0.0267 0.0187

Saturn 25606-01-18 22:19 G 11073477.30 11073477.43 11073477.57 0.0268 0.0093

Saturn 25606-04-17 10:33 G 11073565.79 11073565.94 11073566.08 0.0268 0.0006

Saturn 25606-07-14 22:48 G 11073654.32 11073654.45 11073654.58 0.0268 0.0104

Saturn 25606-10-11 11:16 G 11073742.88 11073742.97 11073743.06 0.0268 0.0204

Mars 25607-03-05 06:14 G 11073887.67 11073887.76 11073887.85 0.1863 0.1396

Venus 25607-03-06 15:36 G 11073889.05 11073889.15 11073889.25 0.3693 0.2213

Mars 25607-12-25 23:31 G 11074183.35 11074183.48 11074183.61 0.1686 0.0321

Moon 25608-08-08 08:38 G 11074409.71 11074409.86 11074410.00 0.2659 0.0411

Earth 25608-08-08 09:50 G 11074409.77 11074409.91 11074410.06 0.2659 0.0193 *

Venus 25608-09-16 10:48 G 11074448.84 11074448.95 11074449.07 0.3678 0.0367

Jupiter 25610-05-20 09:07 G 11075059.74 11075059.88 11075060.02 0.0509 0.0061

Moon 25611-02-07 23:45 G 11075323.37 11075323.49 11075323.60 0.2674 0.0248

Earth 25611-02-08 00:28 G 11075323.40 11075323.52 11075323.64 0.2672 0.0134 *

Venus 25614-04-02 06:57 G 11076472.70 11076472.79 11076472.88 0.3677 0.2291

Jupiter 25616-07-19 10:48 G 11077311.85 11077311.95 11077312.05 0.0516 0.0403

Mars 25616-07-25 09:07 G 11077317.74 11077317.88 11077318.02 0.1855 0.0052

Jupiter 25616-10-17 13:26 G 11077401.95 11077402.06 11077402.18 0.0519 0.0364

Mars 25617-05-17 07:40 G 11077613.73 11077613.82 11077613.91 0.1693 0.1161

Saturn 25620-05-29 00:57 G 11078721.46 11078721.54 11078721.65 0.0293 0.0240

Uranus 25620-08-25 13:26 G 11078810.02 11078810.06 11078810.11 0.0133 0.0128

Saturn 25620-08-25 21:36 G 11078810.25 11078810.40 11078810.57 0.0293 0.0086

Uranus 25620-11-21 18:43 G 11078898.19 11078898.28 11078898.39 0.0133 0.0107

Saturn 25620-11-22 17:45 G 11078899.08 11078899.24 11078899.40 0.0293 0.0065

Uranus 25621-02-18 00:14 G 11078986.38 11078986.51 11078986.64 0.0133 0.0085

Saturn 25621-02-19 13:12 G 11078987.94 11078988.05 11078988.16 0.0293 0.0211

Uranus 25621-05-17 05:31 G 11079074.59 11079074.73 11079074.88 0.0133 0.0065

Moon 25621-08-11 10:48 G 11079160.86 11079160.95 11079161.05 0.2662 0.1956

Earth 25621-08-11 12:00 G 11079160.92 11079161.00 11079161.09 0.2659 0.2121 *

Uranus 25621-08-13 10:48 G 11079162.80 11079162.95 11079163.11 0.0133 0.0044

Uranus 25621-11-09 16:04 G 11079251.01 11079251.17 11079251.34 0.0133 0.0023

Uranus 25622-02-05 21:21 G 11079339.22 11079339.39 11079339.56 0.0133 0.0003

Jupiter 25622-03-08 12:28 G 11079369.88 11079370.02 11079370.15 0.0511 0.0091

Uranus 25622-05-05 02:24 G 11079427.44 11079427.60 11079427.77 0.0133 0.0018

Jupiter 25622-06-05 21:07 G 11079459.36 11079459.38 11079459.40 0.0507 0.0498

Uranus 25622-08-01 07:40 G 11079515.66 11079515.82 11079515.98 0.0133 0.0037

Uranus 25622-10-28 12:43 G 11079603.88 11079604.03 11079604.18 0.0133 0.0057

Uranus 25623-01-24 17:31 G 11079692.11 11079692.23 11079692.37 0.0133 0.0077

Uranus 25623-04-22 22:19 G 11079780.34 11079780.43 11079780.56 0.0133 0.0098

Uranus 25623-07-20 03:21 G 11079868.58 11079868.64 11079868.73 0.0133 0.0117

Moon 25624-02-10 19:12 G 11080074.20 11080074.30 11080074.40 0.2677 0.1304

Earth 25624-02-10 19:40 G 11080074.22 11080074.32 11080074.42 0.2672 0.1416 *

Mars 25625-12-15 11:31 G 11080747.89 11080747.98 11080748.08 0.1846 0.1340

Jupiter 25628-08-05 12:28 G 11081711.86 11081712.02 11081712.18 0.0518 0.0173

Mars 25628-09-12 07:26 G 11081749.75 11081749.81 11081749.86 0.1673 0.1497

Jupiter 25633-12-25 16:04 G 11083680.05 11083680.17 11083680.29 0.0511 0.0232

Jupiter 25634-03-25 00:43 G 11083769.43 11083769.53 11083769.62 0.0508 0.0354

Saturn 25635-03-11 13:40 G 11084120.99 11084121.07 11084121.16 0.0267 0.0207

Saturn 25635-06-08 01:26 G 11084209.44 11084209.56 11084209.69 0.0267 0.0113

Saturn 25635-09-04 13:26 G 11084297.92 11084298.06 11084298.21 0.0267 0.0018

Saturn 25635-12-02 01:40 G 11084386.43 11084386.57 11084386.71 0.0267 0.0082

Saturn 25636-02-28 14:09 G 11084474.98 11084475.09 11084475.20 0.0267 0.0181

Mars 25638-02-02 15:21 G 11085180.02 11085180.14 11085180.27 0.1679 0.0657

Jupiter 25640-05-24 11:02 G 11086021.79 11086021.96 11086022.13 0.0517 0.0024

Moon 25641-08-06 12:28 G 11086460.95 11086461.02 11086461.09 0.2655 0.2304

Earth 25641-08-06 13:26 G 11086460.97 11086461.06 11086461.14 0.2659 0.2098 *

Moon 25644-02-06 09:50 G 11087374.81 11087374.91 11087375.00 0.2668 0.1476

Earth 25644-02-06 10:19 G 11087374.83 11087374.93 11087375.03 0.2672 0.1341 *

Jupiter 25645-10-13 20:09 G 11087990.25 11087990.34 11087990.43 0.0512 0.0371

Jupiter 25646-01-11 04:19 G 11088079.55 11088079.68 11088079.80 0.0509 0.0212

Mars 25646-09-03 06:43 G 11088314.71 11088314.78 11088314.86 0.1864 0.1569

Venus 25647-02-25 21:50 G 11088490.40 11088490.41 11088490.42 0.3691 0.3666

Mars 25647-06-25 23:31 G 11088610.35 11088610.48 11088610.62 0.1686 0.0203

Saturn 25649-10-16 00:00 G 11089453.48 11089453.50 11089453.52 0.0293 0.0289

Saturn 25650-01-12 20:38 G 11089542.21 11089542.36 11089542.51 0.0293 0.0134

Saturn 25650-04-11 16:48 G 11089631.04 11089631.20 11089631.37 0.0292 0.0018

Saturn 25650-07-09 12:28 G 11089719.89 11089720.02 11089720.16 0.0292 0.0165

Jupiter 25652-03-12 10:04 G 11090331.77 11090331.92 11090332.08 0.0517 0.0210

Venus 25652-09-10 19:55 G 11090514.21 11090514.33 11090514.44 0.3692 0.1372

Venus	25654-03-24 18:14 G	11091074.18	11091074.26	11091074.34	0.3679	0.2736
Moon	25654-08-09 14:24 G	11091211.96	11091212.10	11091212.25	0.2659	0.0183
Earth	25654-08-09 15:50 G	11091212.02	11091212.16	11091212.31	0.2659	0.0295 *
Mars	25656-01-24 09:36 G	11091744.76	11091744.90	11091745.04	0.1855	0.0208
Mars	25656-11-15 07:55 G	11092040.73	11092040.83	11092040.93	0.1693	0.1042
Moon	25657-02-08 04:33 G	11092125.58	11092125.69	11092125.81	0.2675	0.0140
Earth	25657-02-08 05:31 G	11092125.61	11092125.73	11092125.84	0.2672	0.0193 *
Jupiter	25657-08-01 23:45 G	11092300.49	11092300.49	11092300.50	0.0513	0.0512
Jupiter	25657-10-30 07:40 G	11092389.69	11092389.82	11092389.96	0.0509	0.0068
Venus	25658-03-27 17:16 G	11092538.10	11092538.22	11092538.34	0.3692	0.0829
Venus	25659-10-08 13:40 G	11093097.96	11093098.07	11093098.19	0.3679	0.0923
Uranus	25663-02-17 08:52 G	11094325.82	11094325.87	11094325.93	0.0145	0.0133
Uranus	25663-05-16 13:26 G	11094413.97	11094414.06	11094414.15	0.0145	0.0111
Uranus	25663-08-12 18:00 G	11094502.14	11094502.25	11094502.37	0.0145	0.0089
Venus	25663-10-11 14:24 G	11094562.03	11094562.10	11094562.18	0.3693	0.2902
Uranus	25663-11-08 22:19 G	11094590.31	11094590.43	11094590.57	0.0145	0.0067
Jupiter	25663-12-30 09:07 G	11094641.77	11094641.88	11094641.99	0.0516	0.0398
Uranus	25664-02-05 03:07 G	11094678.49	11094678.63	11094678.77	0.0145	0.0044
Jupiter	25664-03-29 12:00 G	11094731.89	11094732.00	11094732.11	0.0520	0.0371
Uranus	25664-05-03 07:55 G	11094766.68	11094766.83	11094766.97	0.0145	0.0021
Saturn	25664-07-28 15:21 G	11094853.08	11094853.14	11094853.20	0.0267	0.0241
Uranus	25664-07-30 12:28 G	11094854.87	11094855.02	11094855.17	0.0145	0.0002
Saturn	25664-10-25 02:52 G	11094941.51	11094941.62	11094941.74	0.0267	0.0147
Uranus	25664-10-26 17:16 G	11094943.07	11094943.22	11094943.36	0.0145	0.0025
Saturn	25665-01-21 14:52 G	11095029.98	11095030.12	11095030.26	0.0267	0.0052
Uranus	25665-01-22 22:04 G	11095031.28	11095031.42	11095031.56	0.0145	0.0049
Saturn	25665-04-20 02:52 G	11095118.48	11095118.62	11095118.77	0.0268	0.0047
Uranus	25665-04-21 02:38 G	11095119.49	11095119.61	11095119.74	0.0145	0.0072
Venus	25665-04-23 09:36 G	11095121.78	11095121.90	11095122.01	0.3678	0.0985
Mars	25665-06-15 12:00 G	11095174.89	11095175.00	11095175.11	0.1847	0.1170

Saturn 25665-07-17 15:21 G 11095207.02 11095207.14 11095207.26 0.0268 0.0145

Uranus 25665-07-18 07:40 G 11095207.71 11095207.82 11095207.93 0.0145 0.0096

Saturn 25665-10-14 03:50 G 11095295.61 11095295.66 11095295.72 0.0268 0.0247

Uranus 25665-10-14 12:28 G 11095295.94 11095296.02 11095296.10 0.0145 0.0119

Uranus 25666-01-10 17:16 G 11095384.21 11095384.22 11095384.25 0.0145 0.0143

Neptune 25666-12-24 13:26 G 11095732.04 11095732.06 11095732.10 0.0088 0.0086

Neptune 25667-03-22 15:07 G 11095820.07 11095820.13 11095820.20 0.0088 0.0079

Neptune 25667-06-18 16:33 G 11095908.12 11095908.19 11095908.29 0.0088 0.0072

Moon 25667-08-12 17:02 G 11095963.16 11095963.21 11095963.27 0.2663 0.2456

Earth 25667-08-12 18:00 G 11095963.22 11095963.25 11095963.28 0.2659 0.2584 *

Neptune 25667-09-14 18:14 G 11095996.17 11095996.26 11095996.37 0.0088 0.0064

Neptune 25667-12-11 19:55 G 11096084.23 11096084.33 11096084.45 0.0088 0.0057

Neptune 25668-03-08 21:21 G 11096172.29 11096172.39 11096172.52 0.0088 0.0051

Mars 25668-03-13 07:26 G 11096176.78 11096176.81 11096176.84 0.1673 0.1621

Neptune 25668-06-04 23:16 G 11096260.35 11096260.47 11096260.60 0.0088 0.0043

Neptune 25668-09-01 00:57 G 11096348.41 11096348.54 11096348.67 0.0088 0.0035

Neptune 25668-11-28 02:24 G 11096436.47 11096436.60 11096436.75 0.0088 0.0029

Neptune 25669-02-24 04:04 G 11096524.54 11096524.67 11096524.82 0.0088 0.0021

Neptune 25669-05-23 06:00 G 11096612.60 11096612.75 11096612.89 0.0088 0.0014

Jupiter 25669-08-18 11:16 G 11096699.84 11096699.97 11096700.11 0.0510 0.0080

Neptune 25669-08-19 07:40 G 11096700.67 11096700.82 11096700.96 0.0088 0.0007

Neptune 25669-11-15 09:07 G 11096788.74 11096788.88 11096789.03 0.0088 0.0003

Jupiter 25669-11-15 19:55 G 11096789.33 11096789.33 11096789.33 0.0507 0.0506

Moon 25670-02-11 00:14 G 11096876.42 11096876.51 11096876.60 0.2678 0.1711

Earth 25670-02-11 00:43 G 11096876.44 11096876.53 11096876.61 0.2672 0.1738 *

Neptune 25670-02-11 10:48 G 11096876.81 11096876.95 11096877.10 0.0088 0.0009

Neptune 25670-05-10 12:28 G 11096964.88 11096965.02 11096965.17 0.0088 0.0016

Neptune 25670-08-06 14:09 G 11097052.95 11097053.09 11097053.23 0.0088 0.0024

Neptune 25670-11-02 15:50 G 11097141.03 11097141.16 11097141.30 0.0088 0.0031

Venus 25670-11-07 05:45 G 11097145.67 11097145.74 11097145.81 0.3677 0.2963

Neptune 25671-01-29 17:31 G 11097229.10 11097229.23 11097229.37 0.0088 0.0039

Neptune 25671-04-27 19:12 G 11097317.18 11097317.30 11097317.43 0.0088 0.0046

Neptune 25671-07-24 20:52 G 11097405.26 11097405.37 11097405.49 0.0088 0.0054

Neptune 25671-10-20 22:33 G 11097493.35 11097493.44 11097493.55 0.0088 0.0061

Neptune 25672-01-17 00:28 G 11097581.43 11097581.52 11097581.61 0.0088 0.0068

Neptune 25672-04-14 01:55 G 11097669.52 11097669.58 11097669.67 0.0088 0.0076

Neptune 25672-07-11 03:50 G 11097757.62 11097757.66 11097757.71 0.0088 0.0084

Jupiter 25676-01-16 10:48 G 11099041.79 11099041.95 11099042.10 0.0518 0.0179

Moon 25677-02-03 20:09 G 11099426.32 11099426.34 11099426.35 0.2666 0.2631

Earth 25677-02-03 20:24 G 11099426.32 11099426.35 11099426.39 0.2672 0.2515 *

Mars 25677-08-03 15:36 G 11099607.03 11099607.15 11099607.27 0.1679 0.0772

Saturn 25679-06-01 20:52 G 11100274.24 11100274.37 11100274.51 0.0293 0.0175

Saturn 25679-08-29 17:16 G 11100363.06 11100363.22 11100363.39 0.0293 0.0023

Saturn 25679-11-26 13:12 G 11100451.90 11100452.05 11100452.20 0.0293 0.0127

Saturn 25680-02-23 08:24 G 11100540.80 11100540.85 11100540.91 0.0293 0.0272

Jupiter 25681-06-06 14:24 G 11101009.98 11101010.10 11101010.22 0.0512 0.0232

Jupiter 25681-09-03 22:48 G 11101099.36 11101099.45 11101099.55 0.0508 0.0355

Mars 25686-03-04 06:57 G 11102741.74 11102741.79 11102741.84 0.1863 0.1715

Mars 25686-12-24 23:45 G 11103037.36 11103037.49 11103037.62 0.1686 0.0073

Moon 25687-08-07 18:14 G 11103263.15 11103263.26 11103263.37 0.2657 0.1676

Earth 25687-08-07 19:26 G 11103263.20 11103263.31 11103263.42 0.2660 0.1613 *

Jupiter 25687-11-04 09:36 G 11103351.73 11103351.90 11103352.07 0.0517 0.0014

Pluto 25688-08-19 13:12 G 11103641.02 11103641.05 11103641.09 0.0070 0.0067

Pluto 25688-11-15 13:40 G 11103729.01 11103729.07 11103729.15 0.0070 0.0058

Pluto 25689-02-11 14:09 G 11103817.01 11103817.09 11103817.20 0.0070 0.0049

Pluto 25689-05-10 14:52 G 11103905.02 11103905.12 11103905.23 0.0070 0.0039

Pluto 25689-08-06 15:36 G 11103993.03 11103993.15 11103993.27 0.0070 0.0029

Pluto 25689-11-02 16:04 G 11104081.05 11104081.17 11104081.30 0.0070 0.0020

Pluto 25690-01-29 16:48 G 11104169.07 11104169.20 11104169.33 0.0070 0.0010

Moon 25690-02-06 14:38 G 11104177.00 11104177.11 11104177.22 0.2670 0.1067

Earth 25690-02-06 15:21 G 11104177.04 11104177.14 11104177.25 0.2672 0.1025 *

Pluto 25690-04-27 17:16 G 11104257.09 11104257.22 11104257.35 0.0070 0.0002

Pluto 25690-07-24 18:00 G 11104345.12 11104345.25 11104345.38 0.0070 0.0009

Pluto 25690-10-20 18:28 G 11104433.15 11104433.27 11104433.40 0.0071 0.0019

Pluto 25691-01-16 19:12 G 11104521.18 11104521.30 11104521.42 0.0071 0.0029

Pluto 25691-04-14 19:40 G 11104609.22 11104609.32 11104609.43 0.0071 0.0039

Pluto 25691-07-11 20:09 G 11104697.26 11104697.34 11104697.44 0.0071 0.0049

Pluto 25691-10-07 20:52 G 11104785.31 11104785.37 11104785.45 0.0071 0.0059

Pluto 25692-01-03 21:21 G 11104873.38 11104873.39 11104873.43 0.0071 0.0070

Jupiter 25693-03-25 18:14 G 11105320.17 11105320.26 11105320.35 0.0512 0.0373

Jupiter 25693-06-23 02:24 G 11105409.48 11105409.60 11105409.73 0.0509 0.0211

Saturn 25693-12-15 18:14 G 11105585.24 11105585.26 11105585.30 0.0267 0.0261

Saturn 25694-03-14 06:00 G 11105673.65 11105673.75 11105673.86 0.0267 0.0168

Saturn 25694-06-10 18:00 G 11105762.11 11105762.25 11105762.38 0.0267 0.0073

Saturn 25694-09-07 06:00 G 11105850.60 11105850.75 11105850.89 0.0267 0.0024

Saturn 25694-12-04 18:14 G 11105939.13 11105939.26 11105939.39 0.0267 0.0123

Saturn 25695-03-03 06:43 G 11106027.70 11106027.78 11106027.86 0.0267 0.0224

Mars 25695-07-25 09:50 G 11106171.77 11106171.91 11106172.05 0.1856 0.0359

Mars 25696-05-16 08:09 G 11106467.73 11106467.84 11106467.95 0.1692 0.0915

Jupiter 25699-08-23 07:55 G 11107661.68 11107661.83 11107661.99 0.0516 0.0211

Moon 25700-08-10 20:38 G 11108014.22 11108014.36 11108014.50 0.2659 0.0513

Earth 25700-08-10 21:50 G 11108014.28 11108014.41 11108014.55 0.2659 0.0757 *

Moon 25703-02-10 09:36 G 11108927.79 11108927.90 11108928.02 0.2675 0.0372

Earth 25703-02-10 10:33 G 11108927.82 11108927.94 11108928.05 0.2672 0.0511 *

Venus 25703-10-03 21:07 G 11109163.30 11109163.38 11109163.45 0.3691 0.2902

Uranus 25704-09-15 19:55 G 11109511.28 11109511.33 11109511.40 0.0133 0.0124

Uranus 25704-12-13 01:26 G 11109599.46 11109599.56 11109599.67 0.0133 0.0103

Mars 25704-12-15 12:43 G 11109601.91 11109602.03 11109602.15 0.1847 0.0993

Jupiter 25705-01-12 22:19 G 11109630.42 11109630.43 11109630.44 0.0513 0.0510

Uranus 25705-03-11 06:43 G 11109687.65 11109687.78 11109687.92 0.0133 0.0082

Jupiter 25705-04-12 06:14 G 11109719.63 11109719.76 11109719.90 0.0510 0.0072

Uranus 25705-06-07 12:14 G 11109775.86 11109776.01 11109776.16 0.0133 0.0061

Uranus 25705-09-03 17:31 G 11109864.07 11109864.23 11109864.39 0.0133 0.0040

Uranus 25705-11-30 22:48 G 11109952.28 11109952.45 11109952.62 0.0133 0.0019

Uranus 25706-02-27 04:04 G 11110040.50 11110040.67 11110040.83 0.0133 0.0003

Uranus 25706-05-26 09:07 G 11110128.72 11110128.88 11110129.05 0.0133 0.0021

Uranus 25706-08-22 14:09 G 11110216.94 11110217.09 11110217.25 0.0133 0.0042

Uranus 25706-11-18 19:12 G 11110305.16 11110305.30 11110305.45 0.0133 0.0062

Uranus 25707-02-15 00:14 G 11110393.39 11110393.51 11110393.65 0.0133 0.0081

Uranus 25707-05-14 05:02 G 11110481.62 11110481.71 11110481.83 0.0133 0.0102

Uranus 25707-08-10 10:04 G 11110569.87 11110569.92 11110570.00 0.0133 0.0121

Saturn 25708-10-19 19:40 G 11111006.21 11111006.32 11111006.43 0.0293 0.0225

Saturn 25709-01-16 16:04 G 11111095.01 11111095.17 11111095.34 0.0293 0.0072

Saturn 25709-04-15 12:14 G 11111183.85 11111184.01 11111184.17 0.0293 0.0079

Venus 25709-04-18 18:57 G 11111187.17 11111187.29 11111187.41 0.3692 0.0633

Saturn 25709-07-13 07:26 G 11111272.72 11111272.81 11111272.92 0.0292 0.0226

Venus 25710-10-30 16:48 G 11111747.10 11111747.20 11111747.29 0.3679 0.2134

Jupiter 25711-06-12 06:57 G 11111971.69 11111971.79 11111971.90 0.0516 0.0399

Jupiter 25711-09-10 09:50 G 11112061.80 11112061.91 11112062.03 0.0519 0.0369

Venus 25714-11-02 16:19 G 11113211.07 11113211.18 11113211.29 0.3693 0.1527

Moon 25716-02-13 05:31 G 11113678.65 11113678.73 11113678.80 0.2679 0.2052

Earth 25716-02-13 05:31 G 11113678.66 11113678.73 11113678.81 0.2672 0.2061 *

Venus 25716-05-15 12:14 G 11113770.90 11113771.01 11113771.13 0.3678 0.0317

Jupiter 25717-01-29 10:04 G 11114029.78 11114029.92 11114030.05 0.0510 0.0074

Mars 25717-02-02 15:36 G 11114034.04 11114034.15 11114034.27 0.1679 0.0896

Venus 25720-05-18 13:26 G 11115235.03 11115235.06 11115235.08 0.3693 0.3575

Venus 25721-11-29 08:09 G 11115794.73 11115794.84 11115794.95 0.3678 0.1630

Moon 25723-02-06 00:57 G 11116228.48 11116228.54 11116228.61 0.2666 0.2197

Earth 25723-02-06 01:26 G 11116228.50 11116228.56 11116228.63 0.2672 0.2205 *

Jupiter 25723-06-29 09:21 G 11116371.73 11116371.89 11116372.04 0.0519 0.0187

Saturn 25723-08-02 07:12 G 11116405.71 11116405.80 11116405.89 0.0267 0.0204

Saturn 25723-10-29 18:57 G 11116494.16 11116494.29 11116494.42 0.0267 0.0110

Saturn 25724-01-26 06:57 G 11116582.65 11116582.79 11116582.93 0.0267 0.0013

Saturn 25724-04-23 19:12 G 11116671.16 11116671.30 11116671.43 0.0267 0.0085

Saturn 25724-07-21 07:26 G 11116759.71 11116759.81 11116759.92 0.0268 0.0185

Mars 25726-06-26 00:00 G 11117464.37 11117464.50 11117464.63 0.1686 0.0060

Venus 25727-06-15 04:19 G 11117818.67 11117818.68 11117818.70 0.3677 0.3642

Jupiter 25728-11-17 13:40 G 11118339.95 11118340.07 11118340.19 0.0511 0.0217

Jupiter 25729-02-14 22:04 G 11118429.32 11118429.42 11118429.51 0.0508 0.0368

Moon 25733-08-09 00:14 G 11120065.38 11120065.51 11120065.63 0.2657 0.1392

Earth 25733-08-09 01:26 G 11120065.43 11120065.56 11120065.69 0.2660 0.1134 *

Mars 25735-01-24 10:19 G 11120598.80 11120598.93 11120599.07 0.1856 0.0534

Jupiter 25735-04-17 08:09 G 11120681.68 11120681.84 11120682.01 0.0517 0.0011

Mars 25735-11-16 08:09 G 11120894.72 11120894.84 11120894.95 0.1692 0.0802

Moon 25736-02-08 19:40 G 11120979.21 11120979.32 11120979.43 0.2672 0.0892

Earth 25736-02-08 20:24 G 11120979.24 11120979.35 11120979.46 0.2672 0.0709 *

Saturn 25738-03-08 19:12 G 11121738.24 11121738.30 11121738.36 0.0293 0.0272

Saturn 25738-06-05 15:50 G 11121827.01 11121827.16 11121827.32 0.0293 0.0116

Saturn 25738-09-02 12:14 G 11121915.84 11121916.01 11121916.17 0.0293 0.0037

Saturn 25738-11-30 07:40 G 11122004.70 11122004.82 11122004.95 0.0293 0.0185

Jupiter 25740-09-05 16:48 G 11122650.11 11122650.20 11122650.29 0.0512 0.0370

Jupiter 25740-12-04 00:57 G 11122739.42 11122739.54 11122739.67 0.0509 0.0214

Mars 25744-06-15 12:43 G 11124028.91 11124029.03 11124029.16 0.1847 0.0854

Mars 25745-04-07 16:33 G 11124325.16 11124325.19 11124325.22 0.1699 0.1642

Moon 25746-08-12 02:38 G 11124816.48 11124816.61 11124816.74 0.2661 0.1148

Earth 25746-08-12 03:50 G 11124816.54 11124816.66 11124816.79 0.2659 0.1220 *

Jupiter 25747-02-03 06:57 G 11124991.64 11124991.79 11124991.95 0.0516 0.0194

Uranus 25747-03-10 15:36 G 11125027.10 11125027.15 11125027.22 0.0145 0.0130

Uranus 25747-06-06 20:09 G 11125115.25 11125115.34 11125115.44 0.0145 0.0108

Uranus 25747-09-03 00:43 G 11125203.42 11125203.53 11125203.65 0.0145 0.0085

Uranus 25747-11-30 05:16 G 11125291.59 11125291.72 11125291.85 0.0145 0.0063

Uranus 25748-02-26 09:50 G 11125379.78 11125379.91 11125380.06 0.0145 0.0041

Uranus 25748-05-24 14:38 G 11125467.96 11125468.11 11125468.25 0.0145 0.0018

Uranus 25748-08-20 19:12 G 11125556.16 11125556.30 11125556.45 0.0145 0.0006

Uranus 25748-11-17 00:00 G 11125644.35 11125644.50 11125644.64 0.0145 0.0029

Moon 25749-02-10 14:38 G 11125730.00 11125730.11 11125730.23 0.2675 0.0778

Earth 25749-02-10 15:21 G 11125730.03 11125730.14 11125730.25 0.2672 0.0822 *

Uranus 25749-02-13 04:33 G 11125732.56 11125732.69 11125732.83 0.0145 0.0052

Uranus 25749-05-12 09:21 G 11125820.77 11125820.89 11125821.02 0.0145 0.0076

Uranus 25749-08-08 14:09 G 11125908.99 11125909.09 11125909.21 0.0145 0.0100

Uranus 25749-11-04 18:57 G 11125997.22 11125997.29 11125997.38 0.0145 0.0124

Neptune 25750-12-12 03:21 G 11126399.57 11126399.64 11126399.72 0.0089 0.0080

Neptune 25751-03-10 06:00 G 11126487.66 11126487.75 11126487.87 0.0089 0.0071

Neptune 25751-06-06 08:52 G 11126575.76 11126575.87 11126576.01 0.0089 0.0062

Neptune 25751-09-02 12:00 G 11126663.86 11126664.00 11126664.14 0.0089 0.0052

Neptune 25751-11-29 14:38 G 11126751.97 11126752.11 11126752.27 0.0089 0.0044

Neptune 25752-02-25 17:31 G 11126840.08 11126840.23 11126840.40 0.0089 0.0034

Neptune 25752-05-23 20:24 G 11126928.19 11126928.35 11126928.52 0.0089 0.0025

Jupiter 25752-06-24 20:38 G 11126960.35 11126960.36 11126960.37 0.0513 0.0511

Neptune 25752-08-19 23:02 G 11127016.30 11127016.46 11127016.64 0.0089 0.0016

Jupiter 25752-09-22 04:33 G 11127049.56 11127049.69 11127049.83 0.0510 0.0073

Neptune 25752-11-16 01:55 G 11127104.41 11127104.58 11127104.76 0.0089 0.0007

Saturn 25752-12-19 10:19 G 11127137.86 11127137.93 11127138.01 0.0266 0.0224

Neptune 25753-02-12 04:48 G 11127192.53 11127192.70 11127192.87 0.0089 0.0003

Saturn 25753-03-17 22:04 G 11127226.29 11127226.42 11127226.54 0.0266 0.0131

Neptune 25753-05-11 07:26 G 11127280.64 11127280.81 11127280.99 0.0089 0.0012

Saturn 25753-06-14 09:50 G 11127314.77 11127314.91 11127315.05 0.0267 0.0036

Neptune 25753-08-07 10:19 G 11127368.76 11127368.93 11127369.10 0.0089 0.0021

Saturn 25753-09-10 21:50 G 11127403.28 11127403.41 11127403.56 0.0267 0.0063

Neptune 25753-11-03 12:57 G 11127456.88 11127457.04 11127457.20 0.0089 0.0030

Saturn 25753-12-08 10:19 G 11127491.81 11127491.93 11127492.05 0.0267 0.0161

Neptune 25754-01-30 15:36 G 11127545.00 11127545.15 11127545.31 0.0089 0.0039

Saturn 25754-03-06 22:48 G 11127580.43 11127580.45 11127580.48 0.0267 0.0262

Neptune 25754-04-28 18:14 G 11127633.12 11127633.26 11127633.41 0.0089 0.0048

Neptune 25754-07-25 20:52 G 11127721.25 11127721.37 11127721.51 0.0089 0.0056

Neptune 25754-10-21 23:31 G 11127809.37 11127809.48 11127809.60 0.0089 0.0065

Neptune 25755-01-18 01:55 G 11127897.51 11127897.58 11127897.69 0.0089 0.0075

Neptune 25755-04-16 05:02 G 11127985.65 11127985.71 11127985.77 0.0089 0.0083

Mars 25756-08-03 16:04 G 11128461.06 11128461.17 11128461.27 0.1679 0.1027

Jupiter 25758-11-22 05:16 G 11129301.61 11129301.72 11129301.83 0.0515 0.0393

Jupiter 25759-02-20 08:09 G 11129391.72 11129391.84 11129391.95 0.0519 0.0373

Venus 25760-05-09 20:09 G 11129836.24 11129836.34 11129836.44 0.3692 0.2152

Venus 25761-11-20 19:55 G 11130396.28 11130396.33 11130396.38 0.3680 0.3329

Moon 25762-02-13 10:33 G 11130480.89 11130480.94 11130480.99 0.2679 0.2356

Earth 25762-02-13 10:33 G 11130480.89 11130480.94 11130480.99 0.2672 0.2389 *

Jupiter 25764-07-11 08:38 G 11131359.72 11131359.86 11131359.99 0.0511 0.0068

Venus 25765-11-23 18:00 G 11131860.13 11131860.25 11131860.37 0.3692 0.0094

Mars 25765-12-25 00:00 G 11131891.37 11131891.50 11131891.63 0.1685 0.0174

Venus 25767-06-06 15:21 G 11132420.03 11132420.14 11132420.24 0.3679 0.1531

Saturn 25767-10-23 14:24 G 11132558.97 11132559.10 11132559.24 0.0293 0.0167

Saturn 25768-01-20 10:48 G 11132647.78 11132647.95 11132648.12 0.0293 0.0014

Saturn 25768-04-18 06:28 G 11132736.63 11132736.77 11132736.92 0.0293 0.0136

Saturn 25768-07-16 01:55 G 11132825.54 11132825.58 11132825.63 0.0292 0.0280

Moon 25769-02-06 06:00 G 11133030.67 11133030.75 11133030.82 0.2667 0.2014

Earth 25769-02-06 06:28 G 11133030.69 11133030.77 11133030.85 0.2672 0.1895 *

Jupiter 25770-12-09 07:26 G 11133701.66 11133701.81 11133701.97 0.0518 0.0190

Venus 25771-06-09 15:21 G 11133884.04 11133884.14 11133884.23 0.3693 0.2218

Venus 25772-12-20 10:48 G 11134443.83 11134443.95 11134444.07 0.3678 0.0343

Mars 25774-07-25 10:33 G 11135025.81 11135025.94 11135026.07 0.1856 0.0691

Pluto 25774-09-29 19:26 G 11135092.26 11135092.31 11135092.39 0.0074 0.0069

Pluto 25774-12-26 22:04 G 11135180.29 11135180.42 11135180.57 0.0074 0.0052

Pluto 25775-03-25 00:43 G 11135268.36 11135268.53 11135268.71 0.0074 0.0035

Mars 25775-05-17 08:24 G 11135321.73 11135321.85 11135321.97 0.1692 0.0679

Pluto 25775-06-21 03:07 G 11135356.45 11135356.63 11135356.84 0.0073 0.0019

Pluto 25775-09-17 06:00 G 11135444.55 11135444.75 11135444.95 0.0073 0.0001

Pluto 25775-12-14 08:24 G 11135532.66 11135532.85 11135533.05 0.0073 0.0016

Pluto 25776-03-11 10:48 G 11135620.78 11135620.95 11135621.14 0.0073 0.0032

Jupiter 25776-04-29 12:28 G 11135669.90 11135670.02 11135670.14 0.0511 0.0208

Pluto 25776-06-07 13:26 G 11135708.92 11135709.06 11135709.21 0.0073 0.0048

Jupiter 25776-07-27 20:52 G 11135759.28 11135759.37 11135759.46 0.0508 0.0377

Pluto 25776-09-03 15:36 G 11135797.08 11135797.15 11135797.26 0.0073 0.0065

Venus 25778-07-06 06:43 G 11136467.69 11136467.78 11136467.88 0.3678 0.2296

Moon 25779-08-10 06:14 G 11136867.62 11136867.76 11136867.90 0.2657 0.0744

Earth 25779-08-10 07:26 G 11136867.67 11136867.81 11136867.95 0.2660 0.0656 *

Moon 25782-02-09 00:28 G 11137781.41 11137781.52 11137781.64 0.2672 0.0445

Earth 25782-02-09 01:26 G 11137781.44 11137781.56 11137781.67 0.2672 0.0395 *

Saturn 25782-05-08 11:16 G 11137869.95 11137869.97 11137870.00 0.0267 0.0262

Saturn 25782-08-04 22:48 G 11137958.35 11137958.45 11137958.57 0.0267 0.0169

Jupiter 25782-09-27 06:57 G 11138011.62 11138011.79 11138011.95 0.0518 0.0014

Saturn 25782-11-01 10:48 G 11138046.81 11138046.95 11138047.08 0.0267 0.0074

Saturn 25783-01-28 22:48 G 11138135.30 11138135.45 11138135.59 0.0267 0.0023

Saturn 25783-04-27 10:48 G 11138223.83 11138223.95 11138224.08 0.0267 0.0121

Saturn 25783-07-24 23:16 G 11138312.39 11138312.47 11138312.55 0.0267 0.0221

Mars 25783-12-15 13:26 G 11138455.92 11138456.06 11138456.19 0.1848 0.0674

Mars 25784-10-06 16:33 G 11138752.14 11138752.19 11138752.24 0.1699 0.1528

Jupiter 25788-02-16 16:19 G 11139980.08 11139980.18 11139980.27 0.0512 0.0351

Jupiter 25788-05-16 00:29 G 11140069.39 11140069.52 11140069.64 0.0509 0.0232

Uranus 25788-10-06 02:38 G 11140212.55 11140212.61 11140212.69 0.0133 0.0120

Uranus 25789-01-02 08:09 G 11140300.73 11140300.84 11140300.96 0.0133 0.0098

Uranus 25789-03-31 13:26 G 11140388.93 11140389.06 11140389.21 0.0133 0.0078

Uranus 25789-06-27 18:57 G 11140477.14 11140477.29 11140477.45 0.0133 0.0056

Uranus 25789-09-24 00:14 G 11140565.35 11140565.51 11140565.68 0.0133 0.0036

Uranus 25789-12-21 05:31 G 11140653.57 11140653.73 11140653.90 0.0133 0.0015

Uranus 25790-03-19 10:48 G 11140741.78 11140741.95 11140742.12 0.0133 0.0005

Uranus 25790-06-15 15:50 G 11140830.00 11140830.16 11140830.33 0.0133 0.0026

Uranus 25790-09-11 20:53 G 11140918.22 11140918.37 11140918.54 0.0133 0.0046

Uranus 25790-12-09 01:55 G 11141006.45 11141006.58 11141006.74 0.0133 0.0067

Uranus 25791-03-07 07:12 G 11141094.68 11141094.80 11141094.93 0.0133 0.0086

Uranus 25791-06-03 12:00 G 11141182.91 11141183.00 11141183.11 0.0133 0.0106

Uranus 25791-08-30 16:48 G 11141271.16 11141271.20 11141271.27 0.0133 0.0126

Moon 25792-08-12 08:38 G 11141618.75 11141618.86 11141618.98 0.2663 0.1456

Earth 25792-08-12 09:50 G 11141618.80 11141618.91 11141619.02 0.2659 0.1688 *

Jupiter 25794-07-16 05:45 G 11142321.59 11142321.74 11142321.90 0.0516 0.0182

Moon 25795-02-11 19:55 G 11142532.22 11142532.33 11142532.44 0.2677 0.1011

Earth 25795-02-11 20:24 G 11142532.25 11142532.35 11142532.46 0.2672 0.1143 *

Mars 25796-02-02 16:05 G 11142888.07 11142888.17 11142888.26 0.1679 0.1142

Saturn 25797-03-11 12:57 G 11143290.94 11143291.04 11143291.16 0.0294 0.0220

Saturn 25797-06-08 09:36 G 11143379.74 11143379.90 11143380.07 0.0293 0.0065

Saturn 25797-09-05 05:45 G 11143468.58 11143468.74 11143468.90 0.0293 0.0087

Saturn 25797-12-03 01:12 G 11143557.46 11143557.55 11143557.65 0.0293 0.0235

Jupiter 25799-12-05 19:26 G 11144290.29 11144290.31 11144290.33 0.0513 0.0505

Jupiter 25800-03-05 03:21 G 11144379.50 11144379.64 11144379.77 0.0510 0.0077

Mars 25805-06-26 00:14 G 11146318.38 11146318.51 11146318.64 0.1685 0.0299

Jupiter 25806-05-05 04:48 G 11146631.58 11146631.70 11146631.81 0.0515 0.0371

Jupiter 25806-08-03 07:26 G 11146721.71 11146721.81 11146721.92 0.0519 0.0394

Jupiter 25811-12-23 06:57 G 11148689.66 11148689.79 11148689.93 0.0511 0.0068

Saturn 25811-12-24 01:55 G 11148690.48 11148690.58 11148690.68 0.0266 0.0190

Saturn 25812-03-21 13:26 G 11148778.93 11148779.06 11148779.20 0.0266 0.0097

Saturn 25812-06-18 01:26 G 11148867.42 11148867.56 11148867.71 0.0266 0.0002

Earth 25812-08-08 10:48 G 11148918.92 11148918.95 11148918.97 0.2660 0.2598

Saturn 25812-09-14 13:41 G 11148955.93 11148956.07 11148956.20 0.0267 0.0097

Saturn 25812-12-12 01:55 G 11149044.49 11149044.58 11149044.68 0.0267 0.0197

Mars 25814-01-24 11:02 G 11149452.83 11149452.96 11149453.08 0.1856 0.0849

Mars 25814-11-16 08:24 G 11149748.73 11149748.85 11149748.98 0.1692 0.0556

Moon 25815-02-08 10:48 G 11149832.86 11149832.95 11149833.04 0.2668 0.1651

Earth 25815-02-08 11:31 G 11149832.88 11149832.98 11149833.07 0.2671 0.1588 *

Venus 25816-12-15 19:26 G 11150509.19 11150509.31 11150509.42 0.3692 0.1402

Jupiter 25818-05-22 06:00 G 11151031.60 11151031.75 11151031.91 0.0518 0.0200

Venus 25818-06-28 18:29 G 11151069.19 11151069.27 11151069.34 0.3679 0.2736

Venus 25822-07-01 17:02 G 11152533.09 11152533.21 11152533.33 0.3692 0.0806

Mars 25823-06-16 13:41 G 11152882.94 11152883.07 11152883.21 0.1848 0.0511

Jupiter 25823-10-11 11:02 G 11152999.84 11152999.96 11153000.09 0.0512 0.0204

Jupiter 25824-01-08 19:26 G 11153089.22 11153089.31 11153089.40 0.0508 0.0383

Venus 25824-01-12 13:41 G 11153092.96 11153093.07 11153093.19 0.3679 0.0922

Mars 25824-04-07 16:33 G 11153179.12 11153179.19 11153179.26 0.1699 0.1411

Moon 25825-08-11 12:14 G 11153669.87 11153670.01 11153670.15 0.2658 0.0403

Earth 25825-08-11 13:26 G 11153669.92 11153670.06 11153670.21 0.2660 0.0188 *

Saturn 25826-07-30 11:31 G 11154022.93 11154022.98 11154023.05 0.0293 0.0272

Saturn 25826-10-27 08:24 G 11154111.70 11154111.85 11154112.01 0.0293 0.0115

Saturn 25827-01-24 04:48 G 11154200.53 11154200.70 11154200.86 0.0293 0.0038

Saturn 25827-04-23 00:14 G 11154289.39 11154289.51 11154289.64 0.0293 0.0186

Venus 25828-01-15 14:09 G 11154557.02 11154557.09 11154557.16 0.3693 0.2905

Moon 25828-02-11 05:31 G 11154583.62 11154583.73 11154583.85 0.2672 0.0258

Earth 25828-02-11 06:14 G 11154583.65 11154583.76 11154583.88 0.2672 0.0129 *

Venus 25829-07-28 09:36 G 11155116.78 11155116.90 11155117.01 0.3678 0.0993

Jupiter 25830-03-10 05:17 G 11155341.55 11155341.72 11155341.89 0.0517 0.0014

Uranus 25831-03-31 23:02 G 11155728.39 11155728.46 11155728.53 0.0145 0.0124

Uranus 25831-06-28 03:21 G 11155816.54 11155816.64 11155816.75 0.0145 0.0102

Neptune 25831-09-22 12:57 G 11155903.01 11155903.04 11155903.11 0.0088 0.0083

Uranus 25831-09-24 07:55 G 11155904.71 11155904.83 11155904.95 0.0145 0.0080

Neptune 25831-12-19 15:07 G 11155991.05 11155991.13 11155991.20 0.0088 0.0075

Uranus 25831-12-21 12:29 G 11155992.89 11155993.02 11155993.16 0.0145 0.0058

Neptune 25832-03-16 16:33 G 11156079.10 11156079.19 11156079.28 0.0088 0.0068

Uranus 25832-03-18 17:02 G 11156081.07 11156081.21 11156081.36 0.0145 0.0035

Neptune 25832-06-12 18:00 G 11156167.16 11156167.25 11156167.36 0.0088 0.0061

Uranus 25832-06-14 21:50 G 11156169.26 11156169.41 11156169.55 0.0145 0.0012

Neptune 25832-09-08 19:41 G 11156255.21 11156255.32 11156255.44 0.0088 0.0053

Uranus 25832-09-11 02:24 G 11156257.46 11156257.60 11156257.75 0.0145 0.0011

Neptune 25832-12-05 21:07 G 11156343.27 11156343.38 11156343.51 0.0088 0.0047

Uranus 25832-12-08 07:12 G 11156345.65 11156345.80 11156345.94 0.0145 0.0034

Neptune 25833-03-03 22:48 G 11156431.33 11156431.45 11156431.59 0.0088 0.0039

Uranus 25833-03-06 11:45 G 11156433.86 11156433.99 11156434.13 0.0145 0.0058

Neptune 25833-05-31 00:43 G 11156519.39 11156519.53 11156519.66 0.0088 0.0032

Uranus 25833-06-02 16:33 G 11156522.07 11156522.19 11156522.32 0.0145 0.0081

Neptune 25833-08-27 02:09 G 11156607.46 11156607.59 11156607.73 0.0088 0.0025

Uranus 25833-08-29 21:21 G 11156610.30 11156610.39 11156610.50 0.0145 0.0105

Neptune 25833-11-23 03:50 G 11156695.52 11156695.66 11156695.81 0.0088 0.0017

Uranus 25833-11-26 02:09 G 11156698.53 11156698.59 11156698.67 0.0145 0.0129

Neptune 25834-02-19 05:31 G 11156783.59 11156783.73 11156783.88 0.0088 0.0010

Neptune 25834-05-18 07:12 G 11156871.66 11156871.80 11156871.95 0.0088 0.0002

Neptune 25834-08-14 08:53 G 11156959.73 11156959.87 11156960.01 0.0088 0.0005

Neptune 25834-11-10 10:33 G 11157047.80 11157047.94 11157048.08 0.0088 0.0012

Neptune 25835-02-06 12:00 G 11157135.87 11157136.00 11157136.15 0.0088 0.0021

Venus 25835-02-11 05:31 G 11157140.66 11157140.73 11157140.80 0.3677 0.2961

Neptune 25835-05-05 13:55 G 11157223.94 11157224.08 11157224.22 0.0088 0.0027

Jupiter 25835-07-30 15:07 G 11157310.03 11157310.13 11157310.23 0.0512 0.0342

Neptune 25835-08-01 15:36 G 11157312.02 11157312.15 11157312.28 0.0088 0.0035

Mars 25835-08-04 16:19 G 11157315.09 11157315.18 11157315.26 0.1679 0.1271

Jupiter 25835-10-27 23:17 G 11157399.35 11157399.47 11157399.59 0.0509 0.0242

Neptune 25835-10-28 17:02 G 11157400.09 11157400.21 11157400.35 0.0088 0.0043

Neptune 25836-01-24 18:57 G 11157488.17 11157488.29 11157488.41 0.0088 0.0050

Neptune 25836-04-21 20:24 G 11157576.25 11157576.35 11157576.47 0.0088 0.0058

Neptune 25836-07-18 22:05 G 11157664.34 11157664.42 11157664.53 0.0088 0.0065

Neptune 25836-10-15 00:00 G 11157752.42 11157752.50 11157752.59 0.0088 0.0072

Neptune 25837-01-11 01:26 G 11157840.52 11157840.56 11157840.64 0.0088 0.0080

Neptune 25837-04-09 03:21 G 11157928.64 11157928.64 11157928.67 0.0088 0.0088

Moon 25838-08-14 14:38 G 11158421.03 11158421.11 11158421.20 0.2664 0.2097

Earth 25838-08-14 15:50 G 11158421.08 11158421.16 11158421.24 0.2659 0.2148 *

Moon 25841-02-13 00:57 G 11159334.45 11159334.54 11159334.64 0.2678 0.1481

Earth 25841-02-13 01:26 G 11159334.46 11159334.56 11159334.66 0.2672 0.1462 *

Saturn 25841-05-12 02:38 G 11159422.54 11159422.61 11159422.68 0.0266 0.0229

Saturn 25841-08-08 14:24 G 11159510.98 11159511.10 11159511.22 0.0267 0.0136

Saturn 25841-11-05 02:09 G 11159599.45 11159599.59 11159599.73 0.0267 0.0040

Jupiter 25841-12-27 04:33 G 11159651.53 11159651.69 11159651.85 0.0517 0.0171

Saturn 25842-02-01 14:09 G 11159687.95 11159688.09 11159688.23 0.0267 0.0057

Saturn 25842-05-01 02:24 G 11159776.48 11159776.60 11159776.72 0.0267 0.0155

Saturn 25842-07-28 14:53 G 11159865.08 11159865.12 11159865.16 0.0267 0.0256

Mars 25844-12-25 00:29 G 11160745.39 11160745.52 11160745.64 0.1685 0.0419

Jupiter 25847-05-18 18:57 G 11161620.25 11161620.29 11161620.33 0.0513 0.0483

Jupiter 25847-08-16 02:53 G 11161709.49 11161709.62 11161709.76 0.0510 0.0098

Mars 25853-07-25 11:17 G 11163879.86 11163879.97 11163880.09 0.1856 0.1017

Jupiter 25853-10-15 03:36 G 11163961.53 11163961.65 11163961.78 0.0515 0.0356

Jupiter 25854-01-13 06:29 G 11164051.67 11164051.77 11164051.87 0.0519 0.0409

Mars 25854-05-17 08:38 G 11164175.73 11164175.86 11164175.98 0.1692 0.0440

Saturn 25856-03-15 06:29 G 11164843.63 11164843.77 11164843.90 0.0294 0.0172

Saturn 25856-06-12 02:53 G 11164932.45 11164932.62 11164932.79 0.0294 0.0017

Saturn 25856-09-08 22:48 G 11165021.31 11165021.45 11165021.60 0.0293 0.0133

Saturn 25856-12-06 18:14 G 11165110.22 11165110.26 11165110.31 0.0293 0.0280

Moon 25858-08-09 15:50 G 11165721.08 11165721.16 11165721.24 0.2655 0.2207

Earth 25858-08-09 16:48 G 11165721.12 11165721.20 11165721.29 0.2660 0.2105 *

Jupiter 25859-06-04 05:45 G 11166019.61 11166019.74 11166019.88 0.0511 0.0060

Moon 25861-02-08 15:36 G 11166635.05 11166635.15 11166635.25 0.2669 0.1385

Earth 25861-02-08 16:19 G 11166635.08 11166635.18 11166635.28 0.2671 0.1276 *

Mars 25862-12-15 13:55 G 11167309.95 11167310.08 11167310.22 0.1848 0.0363

Mars 25863-10-07 16:48 G 11167606.12 11167606.20 11167606.29 0.1699 0.1284

Jupiter 25865-11-01 05:45 G 11168361.59 11168361.74 11168361.89 0.0518 0.0224

Venus 25868-01-06 20:38 G 11169158.28 11169158.36 11169158.43 0.3691 0.2959

Saturn 25870-09-29 05:45 G 11170154.69 11170154.74 11170154.78 0.0266 0.0250

Saturn 25870-12-26 17:02 G 11170243.10 11170243.21 11170243.33 0.0266 0.0158

Jupiter 25871-03-23 09:36 G 11170329.78 11170329.90 11170330.02 0.0512 0.0202

Saturn 25871-03-25 05:02 G 11170331.57 11170331.71 11170331.85 0.0266 0.0064

Jupiter 25871-06-20 18:00 G 11170419.16 11170419.25 11170419.34 0.0509 0.0386

Saturn 25871-06-21 16:48 G 11170420.06 11170420.20 11170420.35 0.0266 0.0034

Moon 25871-08-12 18:14 G 11170472.12 11170472.26 11170472.40 0.2660 0.0148

Earth 25871-08-12 19:41 G 11170472.17 11170472.32 11170472.46 0.2660 0.0305 *

Saturn 25871-09-18 05:02 G 11170508.59 11170508.71 11170508.84 0.0266 0.0132

Saturn 25871-12-15 17:31 G 11170597.16 11170597.23 11170597.30 0.0267 0.0231

Mars 25872-05-06 16:33 G 11170740.15 11170740.19 11170740.24 0.1840 0.1725

Uranus 25872-10-27 09:21 G 11170913.81 11170913.89 11170913.97 0.0134 0.0116

Uranus 25873-01-23 14:38 G 11171002.00 11171002.11 11171002.24 0.0134 0.0095

Uranus 25873-04-21 20:09 G 11171090.20 11171090.34 11171090.48 0.0133 0.0074

Uranus 25873-07-19 01:26 G 11171178.41 11171178.56 11171178.72 0.0133 0.0053

Venus 25873-07-22 18:29 G 11171182.15 11171182.27 11171182.39 0.3692 0.0672

Uranus 25873-10-15 06:43 G 11171266.62 11171266.78 11171266.95 0.0133 0.0032

Uranus 25874-01-11 12:14 G 11171354.84 11171355.01 11171355.18 0.0133 0.0011

Moon 25874-02-11 10:33 G 11171385.83 11171385.94 11171386.06 0.2673 0.0184

Earth 25874-02-11 11:17 G 11171385.86 11171385.97 11171386.09 0.2672 0.0245 *

Uranus 25874-04-09 17:17 G 11171443.06 11171443.22 11171443.39 0.0133 0.0010

Uranus 25874-07-06 22:33 G 11171531.28 11171531.44 11171531.60 0.0133 0.0030

Uranus 25874-10-03 03:36 G 11171619.50 11171619.65 11171619.81 0.0133 0.0050

Uranus 25874-12-30 08:53 G 11171707.73 11171707.87 11171708.01 0.0133 0.0070

Venus 25875-02-02 16:48 G 11171742.11 11171742.20 11171742.30 0.3679 0.2135

Mars 25875-02-02 16:33 G 11171742.12 11171742.19 11171742.26 0.1679 0.1400 *

Uranus 25875-03-28 13:55 G 11171795.96 11171796.08 11171796.20 0.0133 0.0090

Uranus 25875-06-24 18:43 G 11171884.20 11171884.28 11171884.38 0.0133 0.0109

Uranus 25875-09-20 23:31 G 11171972.46 11171972.48 11171972.53 0.0133 0.0129

Jupiter 25877-08-20 04:05 G 11172671.51 11172671.67 11172671.84 0.0517 0.0031

Venus 25879-02-05 15:50 G 11173206.05 11173206.16 11173206.28 0.3693 0.1520

Venus 25880-08-18 12:14 G 11173765.89 11173766.01 11173766.13 0.3678 0.0299

Jupiter 25883-01-09 13:41 G 11174639.97 11174640.07 11174640.17 0.0513 0.0338

Jupiter 25883-04-08 21:50 G 11174729.29 11174729.41 11174729.53 0.0509 0.0247

Mars 25884-06-25 00:29 G 11175172.40 11175172.52 11175172.65 0.1685 0.0542

Moon 25884-08-14 20:38 G 11175223.30 11175223.36 11175223.42 0.2664 0.2393

Earth 25884-08-14 21:50 G 11175223.38 11175223.41 11175223.43 0.2659 0.2602 *

Venus 25884-08-21 13:12 G 11175230.02 11175230.05 11175230.07 0.3693 0.3595

Saturn 25885-08-02 05:02 G 11175575.60 11175575.71 11175575.82 0.0294 0.0224

Saturn 25885-10-30 01:41 G 11175664.41 11175664.57 11175664.73 0.0293 0.0068

Saturn 25886-01-26 21:50 G 11175753.25 11175753.41 11175753.57 0.0293 0.0084

Venus 25886-03-04 08:09 G 11175789.73 11175789.84 11175789.95 0.3678 0.1640

Saturn 25886-04-25 17:31 G 11175842.13 11175842.23 11175842.32 0.0293 0.0232

Moon 25887-02-14 06:00 G 11176136.67 11176136.75 11176136.84 0.2678 0.1678

Earth 25887-02-14 06:29 G 11176136.68 11176136.77 11176136.85 0.2672 0.1784 *

Jupiter 25889-06-08 03:07 G 11176981.48 11176981.63 11176981.80 0.0516 0.0161

Venus 25891-09-18 04:19 G 11177813.67 11177813.68 11177813.69 0.3677 0.3646

Mars 25893-01-23 11:45 G 11178306.88 11178306.99 11178307.10 0.1856 0.1176

Mars 25893-11-15 08:38 G 11178602.73 11178602.86 11178602.99 0.1692 0.0317

Moon 25894-02-07 02:09 G 11178686.55 11178686.59 11178686.63 0.2666 0.2454

Earth 25894-02-07 02:38 G 11178686.56 11178686.61 11178686.65 0.2671 0.2449 *

Jupiter 25894-10-28 17:45 G 11178950.19 11178950.24 11178950.29 0.0513 0.0474

Jupiter 25895-01-26 01:41 G 11179039.44 11179039.57 11179039.71 0.0510 0.0109

Saturn 25900-05-15 18:00 G 11180975.16 11180975.25 11180975.35 0.0266 0.0196

Saturn 25900-08-12 05:31 G 11181063.61 11181063.73 11181063.87 0.0266 0.0104

Saturn 25900-11-08 17:31 G 11181152.09 11181152.23 11181152.37 0.0266 0.0007

Saturn 25901-02-05 05:31 G 11181240.60 11181240.73 11181240.87 0.0267 0.0090

Jupiter 25901-03-28 02:24 G 11181291.47 11181291.60 11181291.72 0.0516 0.0346

Saturn 25901-05-04 17:45 G 11181329.14 11181329.24 11181329.35 0.0267 0.0190

Jupiter 25901-06-26 05:17 G 11181381.62 11181381.72 11181381.81 0.0519 0.0421

Mars 25902-06-16 14:24 G 11181736.96 11181737.10 11181737.24 0.1848 0.0192

Mars 25903-04-08 17:02 G 11182033.11 11182033.21 11182033.30 0.1698 0.1171

Moon 25904-08-10 21:50 G 11182523.30 11182523.41 11182523.52 0.2656 0.1807

Earth 25904-08-10 23:02 G 11182523.34 11182523.46 11182523.57 0.2660 0.1617 *

Jupiter 25906-11-15 05:31 G 11183349.59 11183349.73 11183349.87 0.0511 0.0035

Moon 25907-02-10 20:38 G 11183437.25 11183437.36 11183437.46 0.2669 0.1084

Earth 25907-02-10 21:21 G 11183437.28 11183437.39 11183437.50 0.2671 0.0964 *

Mars 25911-11-06 17:02 G 11185167.14 11185167.21 11185167.29 0.1839 0.1559

Jupiter 25913-04-14 04:48 G 11185691.55 11185691.70 11185691.85 0.0518 0.0240

Mars 25914-08-04 16:33 G 11186169.14 11186169.19 11186169.24 0.1678 0.1518

Saturn 25914-12-21 01:55 G 11186307.56 11186307.58 11186307.63 0.0294 0.0286

Uranus 25915-01-24 01:55 G 11186341.55 11186341.58 11186341.62 0.0145 0.0140

Saturn 25915-03-19 23:02 G 11186396.31 11186396.46 11186396.61 0.0294 0.0128

Uranus 25915-04-22 06:14 G 11186429.69 11186429.76 11186429.85 0.0145 0.0118

Neptune 25915-06-14 00:00 G 11186482.45 11186482.50 11186482.55 0.0089 0.0084

Saturn 25915-06-16 19:26 G 11186485.15 11186485.31 11186485.48 0.0294 0.0027

Uranus 25915-07-19 10:48 G 11186517.85 11186517.95 11186518.06 0.0145 0.0096

Neptune 25915-09-10 02:38 G 11186570.53 11186570.61 11186570.71 0.0089 0.0075

Saturn 25915-09-13 15:21 G 11186574.01 11186574.14 11186574.27 0.0294 0.0176

Uranus 25915-10-15 15:21 G 11186606.02 11186606.14 11186606.27 0.0145 0.0074

Neptune 25915-12-07 05:31 G 11186658.62 11186658.73 11186658.86 0.0089 0.0066

Uranus 25916-01-11 19:55 G 11186694.20 11186694.33 11186694.47 0.0145 0.0051

Neptune 25916-03-04 08:38 G 11186746.73 11186746.86 11186747.00 0.0089 0.0056

Uranus 25916-04-09 00:29 G 11186782.38 11186782.52 11186782.67 0.0145 0.0029

Neptune 25916-05-31 11:17 G 11186834.83 11186834.97 11186835.13 0.0089 0.0047

Uranus 25916-07-06 05:17 G 11186870.57 11186870.72 11186870.86 0.0145 0.0007

Neptune 25916-08-27 14:09 G 11186922.94 11186923.09 11186923.26 0.0089 0.0038

Uranus 25916-10-02 09:50 G 11186958.76 11186958.91 11186959.06 0.0145 0.0017

Neptune 25916-11-23 17:02 G 11187011.05 11187011.21 11187011.38 0.0089 0.0029

Uranus 25916-12-29 14:24 G 11187046.97 11187047.10 11187047.25 0.0145 0.0041

Neptune 25917-02-19 19:55 G 11187099.16 11187099.33 11187099.50 0.0089 0.0020

Uranus 25917-03-27 19:12 G 11187135.17 11187135.30 11187135.44 0.0145 0.0064

Neptune 25917-05-18 22:48 G 11187187.28 11187187.45 11187187.62 0.0089 0.0010

Uranus 25917-06-24 00:00 G 11187223.39 11187223.50 11187223.62 0.0145 0.0088

Moon 25917-08-14 00:14 G 11187274.37 11187274.51 11187274.65 0.2662 0.0616

Earth 25917-08-14 01:41 G 11187274.43 11187274.57 11187274.70 0.2660 0.0771 *

Neptune 25917-08-15 01:26 G 11187275.39 11187275.56 11187275.74 0.0089 0.0003

Uranus 25917-09-20 04:48 G 11187311.61 11187311.70 11187311.80 0.0145 0.0111

Neptune 25917-11-11 04:19 G 11187363.51 11187363.68 11187363.85 0.0089 0.0008

Uranus 25917-12-17 09:36 G 11187399.86 11187399.90 11187399.96 0.0145 0.0135

Neptune 25918-02-07 06:57 G 11187451.62 11187451.79 11187451.96 0.0089 0.0017

Neptune 25918-05-06 09:36 G 11187539.74 11187539.90 11187540.07 0.0089 0.0026

Neptune 25918-08-02 12:14 G 11187627.86 11187628.01 11187628.18 0.0089 0.0035

Jupiter 25918-09-03 08:24 G 11187659.73 11187659.85 11187659.98 0.0512 0.0193

Neptune 25918-10-29 14:53 G 11187715.98 11187716.12 11187716.28 0.0089 0.0044

Jupiter 25918-12-01 16:48 G 11187749.12 11187749.20 11187749.29 0.0508 0.0396

Neptune 25919-01-25 17:31 G 11187804.11 11187804.23 11187804.38 0.0089 0.0053

Neptune 25919-04-23 20:38 G 11187892.24 11187892.36 11187892.48 0.0089 0.0062

Neptune 25919-07-20 23:02 G 11187980.37 11187980.46 11187980.57 0.0089 0.0071

Neptune 25919-10-17 01:41 G 11188068.51 11188068.57 11188068.66 0.0089 0.0079

Neptune 25920-01-13 04:05 G 11188156.67 11188156.67 11188156.72 0.0089 0.0089

Moon 25920-02-13 15:36 G 11188188.04 11188188.15 11188188.27 0.2675 0.0441

Earth 25920-02-13 16:19 G 11188188.07 11188188.18 11188188.29 0.2672 0.0553 *

Mars	25923-12-26 00:43 G	11189599.41	11189599.53	11189599.65	0.1685	0.0666
Venus	25924-08-13 19:41 G	11189831.22	11189831.32	11189831.42	0.3692	0.2194
Jupiter	25925-01-31 04:05 G	11190001.50	11190001.67	11190001.83	0.0517	0.0055
Venus	25926-02-24 19:55 G	11190391.29	11190391.33	11190391.38	0.3679	0.3320
Saturn	25929-10-02 20:53 G	11191707.29	11191707.37	11191707.45	0.0266	0.0219
Saturn	25929-12-30 08:24 G	11191795.73	11191795.85	11191795.98	0.0266	0.0126
Venus	25930-02-27 17:31 G	11191855.11	11191855.23	11191855.36	0.3692	0.0080
Saturn	25930-03-28 20:09 G	11191884.20	11191884.34	11191884.49	0.0266	0.0031
Jupiter	25930-06-22 12:14 G	11191969.91	11191970.01	11191970.11	0.0513	0.0335
Saturn	25930-06-25 08:09 G	11191972.71	11191972.84	11191972.98	0.0266	0.0067
Jupiter	25930-09-19 20:24 G	11192059.23	11192059.35	11192059.47	0.0509	0.0250
Saturn	25930-09-21 20:24 G	11192061.24	11192061.35	11192061.47	0.0266	0.0165
Saturn	25930-12-19 08:53 G	11192149.87	11192149.87	11192149.88	0.0267	0.0266
Venus	25931-09-10 15:21 G	11192415.03	11192415.14	11192415.25	0.3679	0.1522
Mars	25932-07-25 12:00 G	11192733.91	11192734.00	11192734.10	0.1857	0.1332
Moon	25933-02-15 11:17 G	11192938.90	11192938.97	11192939.03	0.2678	0.2133
Earth	25933-02-15 11:31 G	11192938.91	11192938.98	11192939.05	0.2672	0.2108 *
Mars	25933-05-17 08:53 G	11193029.74	11193029.87	11193030.00	0.1691	0.0189
Venus	25935-09-13 14:53 G	11193879.03	11193879.12	11193879.22	0.3693	0.2229
Jupiter	25936-11-19 02:09 G	11194311.43	11194311.59	11194311.76	0.0516	0.0145
Pluto	25937-03-12 20:53 G	11194425.32	11194425.37	11194425.44	0.0070	0.0062
Venus	25937-03-26 10:48 G	11194438.84	11194438.95	11194439.07	0.3678	0.0380
Pluto	25937-06-08 21:36 G	11194513.32	11194513.40	11194513.49	0.0070	0.0052
Pluto	25937-09-04 22:05 G	11194601.33	11194601.42	11194601.53	0.0070	0.0043
Pluto	25937-12-01 22:48 G	11194689.34	11194689.45	11194689.57	0.0070	0.0033
Pluto	25938-02-27 23:17 G	11194777.35	11194777.47	11194777.60	0.0070	0.0024
Pluto	25938-05-27 00:00 G	11194865.37	11194865.50	11194865.63	0.0070	0.0014
Pluto	25938-08-23 00:29 G	11194953.39	11194953.52	11194953.66	0.0070	0.0005
Pluto	25938-11-19 01:12 G	11195041.42	11195041.55	11195041.68	0.0070	0.0006
Pluto	25939-02-15 01:41 G	11195129.45	11195129.57	11195129.70	0.0071	0.0015

Pluto 25939-05-14 02:09 G 11195217.48 11195217.59 11195217.72 0.0071 0.0026

Pluto 25939-08-10 02:53 G 11195305.51 11195305.62 11195305.74 0.0071 0.0035

Pluto 25939-11-06 03:36 G 11195393.55 11195393.65 11195393.75 0.0071 0.0045

Pluto 25940-02-02 04:05 G 11195481.60 11195481.67 11195481.76 0.0071 0.0055

Moon 25940-02-09 06:57 G 11195488.73 11195488.79 11195488.85 0.2667 0.2267

Earth 25940-02-09 07:26 G 11195488.74 11195488.81 11195488.88 0.2671 0.2142 *

Pluto 25940-04-30 04:48 G 11195569.65 11195569.70 11195569.75 0.0071 0.0065

Mars 25941-12-15 15:07 G 11196163.98 11196164.13 11196164.27 0.1848 0.0062

Jupiter 25942-04-10 16:19 G 11196280.13 11196280.18 11196280.23 0.0514 0.0471

Jupiter 25942-07-09 00:14 G 11196369.38 11196369.51 11196369.65 0.0510 0.0113

Mars 25942-10-07 17:02 G 11196460.11 11196460.21 11196460.31 0.1698 0.1049

Venus 25942-10-10 06:43 G 11196462.69 11196462.78 11196462.88 0.3678 0.2311

Saturn 25944-08-05 22:05 G 11197128.29 11197128.42 11197128.56 0.0294 0.0177

Saturn 25944-11-02 18:43 G 11197217.11 11197217.28 11197217.45 0.0294 0.0022

Saturn 25945-01-30 14:38 G 11197305.97 11197306.11 11197306.26 0.0293 0.0129

Saturn 25945-04-29 10:05 G 11197394.88 11197394.92 11197394.98 0.0293 0.0276

Jupiter 25948-09-07 01:12 G 11198621.42 11198621.55 11198621.68 0.0515 0.0334

Jupiter 25948-12-06 03:50 G 11198711.57 11198711.66 11198711.75 0.0519 0.0431

Moon 25950-08-12 03:50 G 11199325.53 11199325.66 11199325.79 0.2657 0.1208

Earth 25950-08-12 05:02 G 11199325.58 11199325.71 11199325.84 0.2660 0.1130 *

Mars 25951-05-07 17:17 G 11199594.13 11199594.22 11199594.32 0.1840 0.1404

Moon 25953-02-11 01:26 G 11200239.45 11200239.56 11200239.67 0.2670 0.0743

Earth 25953-02-11 02:24 G 11200239.48 11200239.60 11200239.71 0.2671 0.0658 *

Mars 25954-02-02 16:48 G 11200596.17 11200596.20 11200596.22 0.1678 0.1644

Jupiter 25954-04-27 04:19 G 11200679.54 11200679.68 11200679.82 0.0511 0.0027

Uranus 25956-08-21 10:33 G 11201526.93 11201526.94 11201526.96 0.0134 0.0133

Uranus 25956-11-17 15:50 G 11201615.08 11201615.16 11201615.27 0.0134 0.0112

Uranus 25957-02-13 21:21 G 11201703.28 11201703.39 11201703.53 0.0133 0.0091

Uranus 25957-05-13 02:53 G 11201791.48 11201791.62 11201791.77 0.0133 0.0069

Uranus 25957-08-09 08:09 G 11201879.69 11201879.84 11201880.01 0.0133 0.0049

Uranus 25957-11-05 13:41 G 11201967.91 11201968.07 11201968.24 0.0133 0.0027

Uranus 25958-02-01 18:57 G 11202056.12 11202056.29 11202056.46 0.0133 0.0007

Uranus 25958-05-01 00:14 G 11202144.34 11202144.51 11202144.68 0.0133 0.0014

Uranus 25958-07-28 05:17 G 11202232.56 11202232.72 11202232.89 0.0133 0.0035

Uranus 25958-10-24 10:33 G 11202320.79 11202320.94 11202321.09 0.0133 0.0054

Uranus 25959-01-20 15:36 G 11202409.02 11202409.15 11202409.29 0.0133 0.0074

Saturn 25959-02-19 21:50 G 11202439.38 11202439.41 11202439.45 0.0266 0.0256

Uranus 25959-04-18 20:38 G 11202497.25 11202497.36 11202497.48 0.0133 0.0094

Saturn 25959-05-19 09:21 G 11202527.78 11202527.89 11202528.00 0.0266 0.0164

Uranus 25959-07-16 01:26 G 11202585.49 11202585.56 11202585.66 0.0133 0.0114

Saturn 25959-08-15 20:53 G 11202616.24 11202616.37 11202616.51 0.0266 0.0070

Saturn 25959-11-12 08:53 G 11202704.73 11202704.87 11202705.01 0.0266 0.0027

Saturn 25960-02-08 20:53 G 11202793.25 11202793.37 11202793.50 0.0266 0.0125

Saturn 25960-05-07 09:21 G 11202881.81 11202881.89 11202881.97 0.0267 0.0224

Jupiter 25960-09-24 03:21 G 11203021.50 11203021.64 11203021.79 0.0518 0.0250

Mars 25963-06-26 00:57 G 11204026.42 11204026.54 11204026.65 0.1685 0.0791

Moon 25963-08-15 06:14 G 11204076.63 11204076.76 11204076.89 0.2662 0.1037

Earth 25963-08-15 07:41 G 11204076.69 11204076.82 11204076.95 0.2660 0.1244 *

Jupiter 25966-02-13 08:09 G 11204989.71 11204989.84 11204989.97 0.0512 0.0168

Moon 25966-02-13 20:38 G 11204990.25 11204990.36 11204990.47 0.2676 0.0793

Earth 25966-02-13 21:21 G 11204990.28 11204990.39 11204990.50 0.2671 0.0872 *

Jupiter 25966-05-13 16:33 G 11205079.11 11205079.19 11205079.27 0.0508 0.0419

Mars 25972-01-24 12:29 G 11207160.94 11207161.02 11207161.10 0.1857 0.1504

Jupiter 25972-07-13 03:07 G 11207331.46 11207331.63 11207331.79 0.0517 0.0071

Mars 25972-11-15 08:53 G 11207456.74 11207456.87 11207457.00 0.1691 0.0089

Saturn 25973-12-23 18:43 G 11207860.20 11207860.28 11207860.39 0.0294 0.0242

Saturn 25974-03-22 15:50 G 11207949.00 11207949.16 11207949.32 0.0294 0.0084

Saturn 25974-06-19 12:00 G 11208037.84 11208038.00 11208038.17 0.0294 0.0070

Saturn 25974-09-16 07:41 G 11208126.72 11208126.82 11208126.94 0.0294 0.0219

Jupiter 25977-12-02 11:02 G 11209299.86 11209299.96 11209300.07 0.0513 0.0326

Jupiter 25978-03-01 19:12 G 11209389.19 11209389.30 11209389.42 0.0509 0.0261

Moon 25979-02-16 16:19 G 11209741.13 11209741.18 11209741.23 0.2678 0.2381

Earth 25979-02-16 16:33 G 11209741.14 11209741.19 11209741.23 0.2672 0.2431 *

Venus 25981-03-20 18:57 G 11210504.17 11210504.29 11210504.41 0.3692 0.1435

Mars 25981-06-15 15:07 G 11210590.99 11210591.13 11210591.27 0.1848 0.0125

Mars 25982-04-07 17:17 G 11210887.11 11210887.22 11210887.33 0.1698 0.0924

Venus 25982-10-01 18:29 G 11211064.19 11211064.27 11211064.35 0.3679 0.2719

Jupiter 25984-05-01 02:09 G 11211641.42 11211641.59 11211641.75 0.0516 0.0117

Moon 25986-02-09 11:45 G 11212290.91 11212290.99 11212291.07 0.2667 0.1854

Earth 25986-02-09 12:29 G 11212290.94 11212291.02 11212291.10 0.2671 0.1836 *

Venus 25986-10-04 16:33 G 11212528.07 11212528.19 11212528.31 0.3692 0.0802

Venus 25988-04-16 13:55 G 11213087.96 11213088.08 11213088.19 0.3679 0.0907

Saturn 25988-10-05 12:14 G 11213259.91 11213260.01 11213260.11 0.0266 0.0186

Saturn 25989-01-01 23:45 G 11213348.36 11213348.49 11213348.63 0.0266 0.0092

Saturn 25989-03-31 11:45 G 11213436.84 11213436.99 11213437.13 0.0266 0.0008

Saturn 25989-06-27 23:45 G 11213525.36 11213525.49 11213525.62 0.0266 0.0101

Jupiter 25989-09-20 14:53 G 11213610.07 11213610.12 11213610.17 0.0514 0.0469

Saturn 25989-09-24 12:00 G 11213613.91 11213614.00 11213614.10 0.0266 0.0200

Jupiter 25989-12-18 22:48 G 11213699.32 11213699.45 11213699.59 0.0510 0.0115

Mars 25990-11-05 18:00 G 11214021.14 11214021.25 11214021.35 0.1840 0.1228

Venus 25992-04-19 13:55 G 11214552.01 11214552.08 11214552.15 0.3693 0.2926

Venus 25993-10-31 09:36 G 11215111.78 11215111.90 11215112.01 0.3678 0.1005

Jupiter 25996-02-18 00:14 G 11215951.38 11215951.51 11215951.64 0.0515 0.0317

Neptune 25996-03-23 11:45 G 11215985.96 11215985.99 11215986.03 0.0088 0.0085

Jupiter 25996-05-18 02:53 G 11216041.54 11216041.62 11216041.71 0.0518 0.0446

Neptune 25996-06-19 13:26 G 11216073.99 11216074.06 11216074.12 0.0088 0.0078

Moon 25996-08-12 09:50 G 11216127.77 11216127.91 11216128.04 0.2659 0.0910

Earth 25996-08-12 11:02 G 11216127.82 11216127.96 11216128.10 0.2660 0.0650 *

Neptune 25996-09-15 14:53 G 11216162.04 11216162.12 11216162.21 0.0088 0.0071

Neptune 25996-12-12 16:19 G 11216250.09 11216250.18 11216250.29 0.0088 0.0064

Neptune 25997-03-10 18:00 G 11216338.15 11216338.25 11216338.36 0.0088 0.0056

Neptune 25997-06-06 19:26 G 11216426.20 11216426.31 11216426.44 0.0088 0.0050

Neptune 25997-09-02 21:07 G 11216514.26 11216514.38 11216514.51 0.0088 0.0042

Neptune 25997-11-29 22:48 G 11216602.32 11216602.45 11216602.59 0.0088 0.0035

Neptune 25998-02-26 00:29 G 11216690.39 11216690.52 11216690.66 0.0088 0.0028

Neptune 25998-05-25 02:09 G 11216778.45 11216778.59 11216778.73 0.0088 0.0020

Neptune 25998-08-21 03:36 G 11216866.52 11216866.65 11216866.80 0.0088 0.0014

Neptune 25998-11-17 05:17 G 11216954.58 11216954.72 11216954.87 0.0088 0.0006

Moon 25999-02-12 06:29 G 11217041.66 11217041.77 11217041.88 0.2671 0.0492

Earth 25999-02-12 07:12 G 11217041.69 11217041.80 11217041.92 0.2671 0.0346 *

Neptune 25999-02-13 06:57 G 11217042.65 11217042.79 11217042.94 0.0088 0.0003

Uranus 25999-02-13 09:07 G 11217042.84 11217042.88 11217042.94 0.0145 0.0134 *

Neptune 25999-05-12 08:38 G 11217130.72 11217130.86 11217131.01 0.0088 0.0009

Uranus 25999-05-12 13:41 G 11217130.99 11217131.07 11217131.17 0.0145 0.0112 *

Venus 25999-05-17 05:31 G 11217135.66 11217135.73 11217135.80 0.3677 0.2978

Neptune 25999-08-08 10:19 G 11217218.79 11217218.93 11217219.07 0.0088 0.0017

Uranus 25999-08-08 18:14 G 11217219.15 11217219.26 11217219.38 0.0145 0.0090

Neptune 25999-11-04 12:00 G 11217306.86 11217307.00 11217307.14 0.0088 0.0024

Uranus 25999-11-04 22:48 G 11217307.32 11217307.45 11217307.58 0.0145 0.0067

Neptune 26000-01-31 13:41 G 11217394.94 11217395.07 11217395.21 0.0088 0.0031

Uranus 26000-02-01 03:21 G 11217395.50 11217395.64 11217395.78 0.0145 0.0045

Neptune 26000-04-28 15:07 G 11217483.01 11217483.13 11217483.27 0.0088 0.0039

Uranus 26000-04-29 07:55 G 11217483.69 11217483.83 11217483.98 0.0145 0.0022

Neptune 26000-07-25 17:02 G 11217571.09 11217571.21 11217571.34 0.0088 0.0046

Uranus 26000-07-26 12:43 G 11217571.88 11217572.03 11217572.17 0.0145 0.0003

Neptune 26000-10-21 18:29 G 11217659.17 11217659.27 11217659.40 0.0088 0.0054

Uranus 26000-10-22 17:17 G 11217660.08 11217660.22 11217660.37 0.0145 0.0024

27TH MILLENNIUM CE

This is a list of transits of Mercury in the 27th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	**26001-01-17 20:24**	**G**	**11217747.25**	**11217747.35**	**11217747.46**	**0.0088**	**0.0061**	
Uranus	**26001-01-18 22:05**	**G**	**11217748.28**	**11217748.42**	**11217748.56**	**0.0145**	**0.0047**	
Neptune	**26001-04-15 21:50**	**G**	**11217835.34**	**11217835.41**	**11217835.52**	**0.0088**	**0.0069**	
Uranus	**26001-04-17 02:38**	**G**	**11217836.49**	**11217836.61**	**11217836.75**	**0.0145**	**0.0071**	
Neptune	**26001-07-12 23:45**	**G**	**11217923.43**	**11217923.49**	**11217923.57**	**0.0088**	**0.0077**	
Uranus	**26001-07-14 07:26**	**G**	**11217924.71**	**11217924.81**	**11217924.93**	**0.0145**	**0.0095**	
Jupiter	**26001-10-07 02:53**	**G**	**11218009.48**	**11218009.62**	**11218009.76**	**0.0511**	**0.0024**	
Neptune	**26001-10-09 01:26**	**G**	**11218011.53**	**11218011.56**	**11218011.61**	**0.0088**	**0.0084**	
Uranus	**26001-10-10 12:29**	**G**	**11218012.94**	**11218013.02**	**11218013.10**	**0.0145**	**0.0118**	
Uranus	**26002-01-06 17:17**	**G**	**11218101.20**	**11218101.22**	**11218101.25**	**0.0145**	**0.0142**	
Mars	**26002-12-25 00:57**	**G**	**11218453.43**	**11218453.54**	**11218453.65**	**0.1684**	**0.0911**	
Saturn	**26003-05-12 18:14**	**G**	**11218592.23**	**11218592.26**	**11218592.29**	**0.0294**	**0.0289**	
Saturn	**26003-08-09 15:07**	**G**	**11218680.98**	**11218681.13**	**11218681.28**	**0.0294**	**0.0131**	
Saturn	**26003-11-06 11:31**	**G**	**11218769.82**	**11218769.98**	**11218770.15**	**0.0294**	**0.0025**	
Saturn	**26004-02-03 07:26**	**G**	**11218858.68**	**11218858.81**	**11218858.95**	**0.0294**	**0.0174**	
Jupiter	**26007-12-06 22:48**	**G**	**11220261.43**	**11220261.45**	**11220261.47**	**0.0514**	**0.0509**	
Jupiter	**26008-03-06 02:09**	**G**	**11220351.45**	**11220351.59**	**11220351.73**	**0.0518**	**0.0261**	
Moon	**26009-08-15 12:14**	**G**	**11220878.90**	**11220879.01**	**11220879.13**	**0.2662**	**0.1596**	
Earth	**26009-08-15 13:41**	**G**	**11220878.96**	**11220879.07**	**11220879.18**	**0.2660**	**0.1707**	*
Mars	**26011-07-25 12:43**	**G**	**11221587.97**	**11221588.03**	**11221588.09**	**0.1857**	**0.1657**	
Moon	**26012-02-15 01:41**	**G**	**11221792.47**	**11221792.57**	**11221792.68**	**0.2677**	**0.1123**	
Earth	**26012-02-15 02:24**	**G**	**11221792.49**	**11221792.60**	**11221792.70**	**0.2671**	**0.1193**	*

Mars	26012-05-16 09:07 G	11221883.75	11221883.88	11221884.01	0.1691	0.0052
Jupiter	26013-07-26 06:57 G	11222319.66	11222319.79	11222319.92	0.0512	0.0162
Jupiter	26013-10-23 15:21 G	11222409.07	11222409.14	11222409.21	0.0508	0.0426
Saturn	26018-02-22 13:12 G	11223991.98	11223992.05	11223992.13	0.0266	0.0222
Saturn	26018-05-22 00:57 G	11224080.41	11224080.54	11224080.66	0.0266	0.0129
Saturn	26018-08-18 12:43 G	11224168.89	11224169.03	11224169.17	0.0266	0.0035
Saturn	26018-11-15 00:29 G	11224257.38	11224257.52	11224257.67	0.0266	0.0063
Saturn	26019-02-11 12:43 G	11224345.92	11224346.03	11224346.15	0.0266	0.0161
Saturn	26019-05-11 01:12 G	11224434.52	11224434.55	11224434.58	0.0267	0.0261
Jupiter	26019-12-24 01:26 G	11224661.39	11224661.56	11224661.73	0.0517	0.0077
Mars	26020-12-14 15:36 G	11225018.01	11225018.15	11225018.29	0.1849	0.0310
Mars	26021-10-06 17:17 G	11225314.11	11225314.22	11225314.34	0.1698	0.0809
Pluto	26023-04-22 01:55 G	11225876.48	11225876.58	11225876.72	0.0074	0.0060
Pluto	26023-07-19 04:33 G	11225964.55	11225964.69	11225964.87	0.0074	0.0043
Pluto	26023-10-15 07:12 G	11226052.63	11226052.80	11226053.00	0.0074	0.0026
Pluto	26024-01-11 10:05 G	11226140.72	11226140.92	11226141.12	0.0073	0.0008
Pluto	26024-04-08 12:29 G	11226228.83	11226229.02	11226229.22	0.0073	0.0009
Pluto	26024-07-05 14:53 G	11226316.94	11226317.12	11226317.32	0.0073	0.0025
Pluto	26024-10-01 17:31 G	11226405.07	11226405.23	11226405.40	0.0073	0.0041
Pluto	26024-12-28 19:41 G	11226493.22	11226493.32	11226493.46	0.0073	0.0058
Jupiter	26025-05-14 10:48 G	11226629.84	11226629.95	11226630.06	0.0513	0.0302
Jupiter	26025-08-11 18:57 G	11226719.18	11226719.29	11226719.41	0.0509	0.0283
Earth	26029-08-10 14:09 G	11228179.07	11228179.09	11228179.12	0.2661	0.2607
Mars	26030-05-06 18:14 G	11228448.14	11228448.26	11228448.37	0.1840	0.1073
Mars	26031-02-27 01:41 G	11228744.55	11228744.57	11228744.60	0.1705	0.1663
Jupiter	26031-10-12 00:57 G	11228971.38	11228971.54	11228971.71	0.0516	0.0103
Moon	26032-02-10 16:48 G	11229093.11	11229093.20	11229093.29	0.2667	0.1681
Earth	26032-02-10 17:17 G	11229093.13	11229093.22	11229093.32	0.2671	0.1527 *
Venus	26032-04-10 20:09 G	11229153.27	11229153.34	11229153.41	0.3691	0.2996
Saturn	26032-12-26 12:00 G	11229412.87	11229413.00	11229413.13	0.0294	0.0195

Saturn 26033-03-25 08:38 G 11229501.70 11229501.86 11229502.03 0.0294 0.0039

Saturn 26033-06-22 04:48 G 11229590.55 11229590.70 11229590.86 0.0294 0.0114

Saturn 26033-09-19 00:29 G 11229679.45 11229679.52 11229679.59 0.0294 0.0262

Jupiter 26037-03-02 13:41 G 11230940.02 11230940.07 11230940.13 0.0513 0.0460

Jupiter 26037-05-30 21:50 G 11231029.27 11231029.41 11231029.54 0.0510 0.0124

Venus 26037-10-25 18:00 G 11231177.13 11231177.25 11231177.38 0.3692 0.0693

Venus 26039-05-08 17:02 G 11231737.11 11231737.21 11231737.30 0.3679 0.2122

Uranus 26040-09-10 17:17 G 11232228.18 11232228.22 11232228.26 0.0133 0.0129

Uranus 26040-12-07 22:33 G 11232316.35 11232316.44 11232316.55 0.0133 0.0108

Uranus 26041-03-06 04:05 G 11232404.55 11232404.67 11232404.80 0.0133 0.0086

Uranus 26041-06-02 09:21 G 11232492.75 11232492.89 11232493.05 0.0133 0.0066

Uranus 26041-08-29 14:53 G 11232580.96 11232581.12 11232581.28 0.0133 0.0044

Uranus 26041-11-25 20:24 G 11232669.18 11232669.35 11232669.51 0.0133 0.0024

Uranus 26042-02-22 01:41 G 11232757.40 11232757.57 11232757.73 0.0133 0.0004

Uranus 26042-05-21 06:43 G 11232845.62 11232845.78 11232845.95 0.0133 0.0018

Mars 26042-06-25 01:12 G 11232880.45 11232880.55 11232880.65 0.1684 0.1041

Moon 26042-08-13 15:50 G 11232930.01 11232930.16 11232930.30 0.2660 0.0262

Earth 26042-08-13 17:17 G 11232930.07 11232930.22 11232930.36 0.2660 0.0180 *

Uranus 26042-08-17 12:00 G 11232933.84 11232934.00 11232934.16 0.0133 0.0038

Uranus 26042-11-13 17:02 G 11233022.07 11233022.21 11233022.37 0.0133 0.0058

Uranus 26043-02-09 22:05 G 11233110.30 11233110.42 11233110.56 0.0133 0.0079

Uranus 26043-05-09 03:07 G 11233198.53 11233198.63 11233198.75 0.0133 0.0098

Venus 26043-05-11 15:36 G 11233201.04 11233201.15 11233201.27 0.3693 0.1521

Jupiter 26043-07-31 00:00 G 11233281.36 11233281.50 11233281.64 0.0515 0.0291

Uranus 26043-08-05 08:09 G 11233286.78 11233286.84 11233286.92 0.0133 0.0118

Jupiter 26043-10-29 02:38 G 11233371.55 11233371.61 11233371.68 0.0519 0.0473

Venus 26044-11-21 12:14 G 11233760.90 11233761.01 11233761.13 0.3679 0.0311

Moon 26045-02-12 11:31 G 11233843.86 11233843.98 11233844.09 0.2673 0.0073

Earth 26045-02-12 12:14 G 11233843.89 11233844.01 11233844.13 0.2671 0.0030 *

Saturn 26047-07-12 16:19 G 11234724.12 11234724.18 11234724.23 0.0266 0.0244

Saturn 26047-10-09 03:36 G 11234812.54 11234812.65 11234812.77 0.0266 0.0152

Saturn 26048-01-05 15:21 G 11234901.00 11234901.14 11234901.28 0.0266 0.0058

Saturn 26048-04-03 03:21 G 11234989.50 11234989.64 11234989.78 0.0266 0.0039

Saturn 26048-06-30 15:21 G 11235078.02 11235078.14 11235078.27 0.0266 0.0138

Saturn 26048-09-27 03:50 G 11235166.60 11235166.66 11235166.72 0.0266 0.0237

Venus 26048-11-24 12:57 G 11235225.02 11235225.04 11235225.06 0.3693 0.3623

Jupiter 26049-03-19 01:26 G 11235339.42 11235339.56 11235339.69 0.0511 0.0028

Venus 26050-06-07 08:09 G 11235784.73 11235784.84 11235784.94 0.3678 0.1655

Mars 26051-01-23 13:12 G 11236015.02 11236015.05 11236015.07 0.1857 0.1819

Mars 26051-11-15 09:21 G 11236310.76 11236310.89 11236311.02 0.1691 0.0179

Jupiter 26055-05-18 21:50 G 11237591.37 11237591.41 11237591.46 0.0514 0.0493

Moon 26055-08-16 18:29 G 11237681.17 11237681.27 11237681.36 0.2663 0.1960

Earth 26055-08-16 19:41 G 11237681.23 11237681.32 11237681.40 0.2660 0.2169 *

Jupiter 26055-08-17 01:12 G 11237681.41 11237681.55 11237681.69 0.0518 0.0276

Venus 26055-12-22 04:05 G 11237808.66 11237808.67 11237808.68 0.3677 0.3655

Moon 26058-02-15 06:43 G 11238594.69 11238594.78 11238594.88 0.2676 0.1414

Earth 26058-02-15 07:12 G 11238594.71 11238594.80 11238594.90 0.2671 0.1510 *

Mars 26060-06-14 16:05 G 11239445.03 11239445.17 11239445.31 0.1849 0.0469

Jupiter 26061-01-05 05:17 G 11239649.59 11239649.72 11239649.85 0.0512 0.0161

Jupiter 26061-04-04 13:41 G 11239739.00 11239739.07 11239739.15 0.0509 0.0428

Mars 26061-04-06 17:31 G 11239741.11 11239741.23 11239741.35 0.1698 0.0688

Saturn 26062-05-15 11:45 G 11240144.90 11240144.99 11240145.09 0.0294 0.0239

Saturn 26062-08-12 08:38 G 11240233.70 11240233.86 11240234.02 0.0294 0.0081

Saturn 26062-11-09 05:02 G 11240322.55 11240322.71 11240322.87 0.0294 0.0073

Saturn 26063-02-06 00:43 G 11240411.43 11240411.53 11240411.64 0.0294 0.0222

Jupiter 26067-06-05 00:00 G 11241991.34 11241991.50 11241991.67 0.0517 0.0087

Mars 26069-11-04 18:43 G 11242875.15 11242875.28 11242875.40 0.1840 0.0908

Mars 26070-08-28 01:55 G 11243171.52 11243171.58 11243171.63 0.1705 0.1542

Jupiter 26072-10-24 09:21 G 11243959.78 11243959.89 11243960.00 0.0513 0.0298

Jupiter 26073-01-21 17:31 G 11244049.12 11244049.23 11244049.34 0.0509 0.0288

Moon 26075-08-11 19:12 G 11244981.22 11244981.30 11244981.38 0.2657 0.2198

Earth 26075-08-11 20:24 G 11244981.26 11244981.35 11244981.43 0.2660 0.2116 *

Saturn 26077-02-25 05:17 G 11245544.62 11245544.72 11245544.82 0.0266 0.0185

Saturn 26077-05-24 16:48 G 11245633.07 11245633.20 11245633.33 0.0266 0.0092

Saturn 26077-08-21 04:33 G 11245721.55 11245721.69 11245721.83 0.0266 0.0005

Saturn 26077-11-17 16:33 G 11245810.06 11245810.19 11245810.33 0.0266 0.0101

Moon 26078-02-10 21:36 G 11245895.30 11245895.40 11245895.50 0.2668 0.1244

Earth 26078-02-10 22:19 G 11245895.33 11245895.43 11245895.53 0.2671 0.1215 *

Saturn 26078-02-14 04:48 G 11245898.61 11245898.70 11245898.80 0.0266 0.0200

Jupiter 26079-03-23 23:02 G 11246301.30 11246301.46 11246301.63 0.0516 0.0101

Neptune 26079-12-12 20:09 G 11246565.34 11246565.34 11246565.37 0.0089 0.0089

Neptune 26080-03-09 23:17 G 11246653.40 11246653.47 11246653.55 0.0089 0.0079

Neptune 26080-06-06 01:55 G 11246741.49 11246741.58 11246741.70 0.0089 0.0070

Neptune 26080-09-02 04:48 G 11246829.59 11246829.70 11246829.84 0.0089 0.0061

Neptune 26080-11-29 07:55 G 11246917.69 11246917.83 11246917.98 0.0089 0.0051

Neptune 26081-02-25 10:48 G 11247005.80 11247005.95 11247006.11 0.0089 0.0042

Neptune 26081-05-24 13:26 G 11247093.91 11247094.06 11247094.24 0.0089 0.0033

Neptune 26081-08-20 16:33 G 11247182.02 11247182.19 11247182.36 0.0089 0.0024

Neptune 26081-11-16 19:26 G 11247270.14 11247270.31 11247270.48 0.0089 0.0014

Mars 26081-12-24 01:12 G 11247307.46 11247307.55 11247307.65 0.1684 0.1159

Neptune 26082-02-12 22:19 G 11247358.25 11247358.43 11247358.60 0.0089 0.0006

Neptune 26082-05-12 00:57 G 11247446.37 11247446.54 11247446.72 0.0089 0.0004

Neptune 26082-08-08 03:50 G 11247534.49 11247534.66 11247534.83 0.0089 0.0013

Neptune 26082-11-04 06:29 G 11247622.60 11247622.77 11247622.94 0.0089 0.0022

Neptune 26083-01-31 09:07 G 11247710.72 11247710.88 11247711.05 0.0089 0.0031

Uranus 26083-03-05 16:19 G 11247744.12 11247744.18 11247744.25 0.0145 0.0129

Neptune 26083-04-29 11:45 G 11247798.85 11247798.99 11247799.15 0.0089 0.0040

Uranus 26083-06-01 20:53 G 11247832.28 11247832.37 11247832.47 0.0145 0.0107

Neptune 26083-07-26 14:24 G 11247886.97 11247887.10 11247887.26 0.0089 0.0050

Uranus 26083-08-29 01:12 G 11247920.44 11247920.55 11247920.68 0.0145 0.0085

Neptune 26083-10-22 17:02 G 11247975.10 11247975.21 11247975.36 0.0089 0.0059

Uranus 26083-11-25 06:00 G 11248008.62 11248008.75 11248008.88 0.0145 0.0062

Neptune 26084-01-18 19:41 G 11248063.23 11248063.32 11248063.45 0.0089 0.0068

Uranus 26084-02-21 10:19 G 11248096.80 11248096.93 11248097.08 0.0145 0.0040

Neptune 26084-04-15 22:19 G 11248151.36 11248151.43 11248151.54 0.0089 0.0076

Uranus 26084-05-19 15:07 G 11248184.98 11248185.13 11248185.28 0.0145 0.0017

Neptune 26084-07-13 01:26 G 11248239.51 11248239.56 11248239.61 0.0089 0.0085

Jupiter 26084-08-12 13:12 G 11248269.99 11248270.05 11248270.12 0.0513 0.0439

Uranus 26084-08-15 19:41 G 11248273.18 11248273.32 11248273.47 0.0145 0.0008

Jupiter 26084-11-09 21:21 G 11248359.26 11248359.39 11248359.52 0.0510 0.0145

Uranus 26084-11-12 00:29 G 11248361.38 11248361.52 11248361.66 0.0145 0.0029

Uranus 26085-02-08 05:02 G 11248449.58 11248449.71 11248449.85 0.0145 0.0053

Uranus 26085-05-07 09:50 G 11248537.79 11248537.91 11248538.04 0.0145 0.0076

Uranus 26085-08-03 14:38 G 11248626.01 11248626.11 11248626.22 0.0145 0.0100

Uranus 26085-10-30 19:26 G 11248714.24 11248714.31 11248714.39 0.0145 0.0124

Moon 26088-08-13 21:50 G 11249732.26 11249732.41 11249732.55 0.2660 0.0069

Earth 26088-08-13 23:17 G 11249732.32 11249732.47 11249732.61 0.2660 0.0313 *

Venus 26088-11-15 19:26 G 11249826.21 11249826.31 11249826.41 0.3692 0.2229

Venus 26090-05-29 20:09 G 11250386.29 11250386.34 11250386.39 0.3680 0.3303

Jupiter 26091-01-09 22:33 G 11250611.30 11250611.44 11250611.58 0.0515 0.0281

Moon 26091-02-13 16:33 G 11250646.07 11250646.19 11250646.30 0.2674 0.0131

Earth 26091-02-13 17:17 G 11250646.10 11250646.22 11250646.33 0.2671 0.0294 *

Jupiter 26091-04-10 01:26 G 11250701.50 11250701.56 11250701.62 0.0519 0.0483

Mars 26091-05-16 09:21 G 11250737.76 11250737.89 11250738.02 0.1691 0.0297

Saturn 26091-12-30 05:31 G 11250965.58 11250965.73 11250965.88 0.0294 0.0145

Saturn 26092-03-28 02:09 G 11251054.42 11251054.59 11251054.75 0.0294 0.0012

Saturn 26092-06-24 22:05 G 11251143.29 11251143.42 11251143.56 0.0294 0.0162

Venus 26094-06-01 17:17 G 11251850.09 11251850.22 11251850.34 0.3692 0.0148

Venus 26095-12-13 15:21 G 11252410.03 11252410.14 11252410.25 0.3679 0.1518

Jupiter 26096-08-29 00:00 G 11252669.37 11252669.50 11252669.64 0.0511 0.0021

Mars 26099-12-14 16:19 G 11253872.05 11253872.18 11253872.31 0.1849 0.0618

Venus 26099-12-16 14:38 G 11253874.01 11253874.11 11253874.21 0.3693 0.2232

Mars 26100-10-06 17:45 G 11254168.11 11254168.24 11254168.36 0.1698 0.0559

Venus 26101-06-29 10:48 G 11254433.84 11254433.95 11254434.07 0.3678 0.0381

Moon 26101-08-18 00:43 G 11254483.50 11254483.53 11254483.55 0.2665 0.2607

Earth 26101-08-18 01:41 G 11254483.55 11254483.57 11254483.58 0.2660 0.2629 *

Jupiter 26102-10-29 21:21 G 11254921.33 11254921.39 11254921.46 0.0514 0.0470

Jupiter 26103-01-28 00:43 G 11255011.40 11255011.53 11255011.67 0.0518 0.0299

Moon 26104-02-17 12:00 G 11255396.92 11255397.00 11255397.08 0.2677 0.1833

Earth 26104-02-17 12:14 G 11255396.93 11255397.01 11255397.10 0.2671 0.1832 *

Saturn 26106-07-16 07:55 G 11256276.75 11256276.83 11256276.92 0.0266 0.0208

Saturn 26106-10-12 19:41 G 11256365.19 11256365.32 11256365.45 0.0266 0.0114

Saturn 26107-01-09 07:26 G 11256453.67 11256453.81 11256453.95 0.0266 0.0019

Venus 26107-01-13 06:43 G 11256457.69 11256457.78 11256457.87 0.3678 0.2307

Saturn 26107-04-07 19:26 G 11256542.17 11256542.31 11256542.45 0.0266 0.0078

Saturn 26107-07-05 07:41 G 11256630.71 11256630.82 11256630.92 0.0266 0.0177

Jupiter 26108-06-18 03:36 G 11256979.52 11256979.65 11256979.78 0.0512 0.0162

Jupiter 26108-09-15 12:00 G 11257068.93 11257069.00 11257069.08 0.0509 0.0427

Mars 26109-05-06 18:57 G 11257302.16 11257302.29 11257302.42 0.1841 0.0742

Mars 26110-02-27 01:55 G 11257598.51 11257598.58 11257598.65 0.1704 0.1425

Moon 26111-02-10 08:09 G 11257946.79 11257946.84 11257946.88 0.2665 0.2415

Earth 26111-02-10 08:38 G 11257946.81 11257946.86 11257946.90 0.2671 0.2386 *

Jupiter 26114-11-15 22:48 G 11259321.29 11259321.45 11259321.62 0.0517 0.0101

Jupiter 26120-04-06 07:41 G 11261289.71 11261289.82 11261289.93 0.0513 0.0301

Jupiter 26120-07-04 15:50 G 11261379.05 11261379.16 11261379.27 0.0510 0.0286

Saturn 26121-05-19 06:00 G 11261697.62 11261697.75 11261697.89 0.0294 0.0184

Mars 26121-06-25 01:26 G 11261734.48 11261734.56 11261734.64 0.1684 0.1286

Moon 26121-08-13 01:12 G 11261783.44 11261783.55 11261783.66 0.2658 0.1801

Earth 26121-08-13 02:24 G 11261783.49 11261783.60 11261783.72 0.2661 0.1624 *

Saturn 26121-08-16 02:53 G 11261786.45 11261786.62 11261786.78 0.0294 0.0028

Saturn 26121-11-12 22:48 G 11261875.31 11261875.45 11261875.61 0.0294 0.0126

Saturn 26122-02-09 18:29 G 11261964.22 11261964.27 11261964.33 0.0294 0.0274

Moon 26124-02-13 02:38 G 11262697.50 11262697.61 11262697.71 0.2670 0.1057

Earth 26124-02-13 03:21 G 11262697.53 11262697.64 11262697.75 0.2671 0.0907 *

Uranus 26124-10-01 23:45 G 11262929.44 11262929.49 11262929.56 0.0133 0.0125

Uranus 26124-12-29 05:02 G 11263017.62 11263017.71 11263017.83 0.0133 0.0104

Uranus 26125-03-27 10:33 G 11263105.82 11263105.94 11263106.09 0.0133 0.0083

Uranus 26125-06-23 16:19 G 11263194.03 11263194.18 11263194.33 0.0133 0.0061

Uranus 26125-09-19 21:36 G 11263282.24 11263282.40 11263282.57 0.0133 0.0040

Uranus 26125-12-17 02:53 G 11263370.46 11263370.62 11263370.79 0.0133 0.0020

Uranus 26126-03-15 08:24 G 11263458.68 11263458.85 11263459.02 0.0133 0.0003

Uranus 26126-06-11 13:26 G 11263546.90 11263547.06 11263547.23 0.0133 0.0022

Jupiter 26126-09-03 21:36 G 11263631.24 11263631.40 11263631.57 0.0516 0.0093

Uranus 26126-09-07 18:43 G 11263635.12 11263635.28 11263635.44 0.0133 0.0042

Uranus 26126-12-05 00:00 G 11263723.35 11263723.50 11263723.64 0.0133 0.0063

Uranus 26127-03-03 05:02 G 11263811.58 11263811.71 11263811.84 0.0133 0.0083

Uranus 26127-05-30 10:05 G 11263899.82 11263899.92 11263900.03 0.0133 0.0102

Uranus 26127-08-26 14:53 G 11263988.07 11263988.12 11263988.20 0.0133 0.0122

Mars 26130-11-15 09:36 G 11265164.77 11265164.90 11265165.02 0.1691 0.0422

Jupiter 26132-01-24 11:45 G 11265599.92 11265599.99 11265600.06 0.0514 0.0437

Jupiter 26132-04-22 19:41 G 11265689.19 11265689.32 11265689.45 0.0510 0.0146

Moon 26134-08-16 03:50 G 11266534.52 11266534.66 11266534.80 0.2660 0.0686

Earth 26134-08-16 05:17 G 11266534.58 11266534.72 11266534.86 0.2660 0.0779 *

Saturn 26135-12-03 09:50 G 11267008.86 11267008.91 11267008.98 0.0266 0.0238

Saturn 26136-02-29 21:21 G 11267097.28 11267097.39 11267097.51 0.0266 0.0146

Saturn 26136-05-28 09:07 G 11267185.74 11267185.88 11267186.02 0.0266 0.0051

Saturn 26136-08-24 20:53 G 11267274.23 11267274.37 11267274.52 0.0266 0.0046

Saturn 26136-11-21 09:07 G 11267362.76 11267362.88 11267363.00 0.0266 0.0144

Moon 26137-02-14 21:36 G 11267448.28 11267448.40 11267448.51 0.2674 0.0582

Earth 26137-02-14 22:19 G 11267448.31 11267448.43 11267448.54 0.2671 0.0611 *

Saturn 26137-02-17 21:21 G 11267451.34 11267451.39 11267451.45 0.0266 0.0243

Jupiter 26138-06-22 20:24 G 11267941.21 11267941.35 11267941.49 0.0515 0.0283

Jupiter 26138-09-20 23:17 G 11268031.41 11268031.47 11268031.53 0.0519 0.0482

Mars 26139-06-15 16:48 G 11268299.07 11268299.20 11268299.33 0.1849 0.0789

Mars 26140-04-06 17:45 G 11268595.11 11268595.24 11268595.36 0.1698 0.0446

Jupiter 26144-02-09 23:31 G 11269999.34 11269999.48 11269999.62 0.0511 0.0004

Venus 26145-06-23 18:29 G 11270499.15 11270499.27 11270499.38 0.3692 0.1477

Venus 26147-01-04 18:29 G 11271059.20 11271059.27 11271059.35 0.3679 0.2719

Mars 26148-11-04 19:26 G 11271729.17 11271729.31 11271729.44 0.1841 0.0582

Mars 26149-08-28 02:09 G 11272025.50 11272025.59 11272025.67 0.1705 0.1304

Moon 26150-02-17 17:17 G 11272199.15 11272199.22 11272199.29 0.2678 0.2080

Earth 26150-02-17 17:17 G 11272199.16 11272199.22 11272199.29 0.2671 0.2156 *

Jupiter 26150-04-10 19:55 G 11272251.26 11272251.33 11272251.40 0.0514 0.0465

Jupiter 26150-07-09 23:02 G 11272341.33 11272341.46 11272341.60 0.0518 0.0306

Saturn 26150-10-06 03:07 G 11272429.54 11272429.63 11272429.72 0.0294 0.0246

Saturn 26151-01-03 00:00 G 11272518.34 11272518.50 11272518.66 0.0294 0.0088

Venus 26151-01-07 16:19 G 11272523.06 11272523.18 11272523.30 0.3693 0.0794

Saturn 26151-04-01 20:24 G 11272607.19 11272607.35 11272607.51 0.0294 0.0067

Saturn 26151-06-29 16:19 G 11272696.07 11272696.18 11272696.29 0.0294 0.0217

Venus 26152-07-20 13:55 G 11273082.96 11273083.08 11273083.19 0.3679 0.0901

Jupiter 26155-11-29 02:24 G 11274309.47 11274309.60 11274309.73 0.0512 0.0155

Jupiter 26156-02-26 10:48 G 11274398.88 11274398.95 11274399.02 0.0508 0.0433

Venus 26156-07-23 13:26 G 11274546.99 11274547.06 11274547.14 0.3693 0.2933

Moon 26157-02-10 12:57 G 11274748.98 11274749.04 11274749.11 0.2665 0.2142

Earth 26157-02-10 13:26 G 11274748.99 11274749.06 11274749.13 0.2671 0.2077 *

Venus 26158-02-03 09:21 G 11275106.78 11275106.89 11275107.01 0.3678 0.1012

Neptune 26160-09-22 10:05 G 11276068.91 11276068.92 11276068.93 0.0088 0.0088

Neptune 26160-12-19 11:31 G 11276156.93 11276156.98 11276157.04 0.0088 0.0081

Mars 26160-12-24 01:41 G 11276161.50 11276161.57 11276161.64 0.1684 0.1414

Neptune 26161-03-17 13:12 G 11276244.98 11276245.05 11276245.13 0.0088 0.0074

Neptune 26161-06-13 14:38 G 11276333.03 11276333.11 11276333.21 0.0088 0.0067

Neptune 26161-09-09 16:19 G 11276421.08 11276421.18 11276421.29 0.0088 0.0059

Neptune 26161-12-06 17:45 G 11276509.14 11276509.24 11276509.36 0.0088 0.0052

Neptune 26162-03-04 19:26 G 11276597.19 11276597.31 11276597.44 0.0088 0.0045

Jupiter 26162-04-27 22:19 G 11276651.27 11276651.43 11276651.59 0.0517 0.0119

Neptune 26162-05-31 20:53 G 11276685.25 11276685.37 11276685.51 0.0088 0.0039

Neptune 26162-08-27 22:48 G 11276773.32 11276773.45 11276773.58 0.0088 0.0031

Neptune 26162-11-24 00:14 G 11276861.38 11276861.51 11276861.65 0.0088 0.0024

Neptune 26163-02-20 01:55 G 11276949.44 11276949.58 11276949.72 0.0088 0.0016

Neptune 26163-05-19 03:36 G 11277037.51 11277037.65 11277037.80 0.0088 0.0009

Neptune 26163-08-15 05:17 G 11277125.58 11277125.72 11277125.86 0.0088 0.0001

Venus 26163-08-20 05:17 G 11277130.66 11277130.72 11277130.79 0.3677 0.2986

Neptune 26163-11-11 06:57 G 11277213.64 11277213.79 11277213.93 0.0088 0.0006

Neptune 26164-02-07 08:38 G 11277301.71 11277301.86 11277302.00 0.0088 0.0013

Neptune 26164-05-05 10:05 G 11277389.78 11277389.92 11277390.07 0.0088 0.0021

Neptune 26164-08-01 11:45 G 11277477.86 11277477.99 11277478.13 0.0088 0.0028

Neptune 26164-10-28 13:26 G 11277565.93 11277566.06 11277566.20 0.0088 0.0036

Neptune 26165-01-24 15:07 G 11277654.01 11277654.13 11277654.26 0.0088 0.0043

Saturn 26165-04-21 12:43 G 11277741.01 11277741.03 11277741.06 0.0266 0.0261

Neptune 26165-04-22 16:48 G 11277742.09 11277742.20 11277742.32 0.0088 0.0051

Saturn 26165-07-19 00:14 G 11277829.41 11277829.51 11277829.62 0.0266 0.0168

Neptune 26165-07-19 18:14 G 11277830.17 11277830.26 11277830.38 0.0088 0.0059

Saturn 26165-10-15 12:00 G 11277917.86 11277918.00 11277918.14 0.0266 0.0073

Neptune 26165-10-15 20:09 G 11277918.25 11277918.34 11277918.44 0.0088 0.0066

Neptune 26166-01-11 21:50 G 11278006.34 11278006.41 11278006.50 0.0088 0.0073

Saturn 26166-01-11 23:45 G 11278006.35 11278006.49 11278006.64 0.0266 0.0024 *

Neptune 26166-04-09 23:45 G 11278094.43 11278094.49 11278094.55 0.0088 0.0080

Saturn 26166-04-10 11:45 G 11278094.87 11278094.99 11278095.13 0.0266 0.0122

Neptune 26166-07-07 01:26 G 11278182.56 11278182.56 11278182.56 0.0088 0.0088

Saturn 26166-07-08 00:14 G 11278183.43 11278183.51 11278183.59 0.0266 0.0221

Uranus 26167-03-26 23:17 G 11278445.40 11278445.47 11278445.54 0.0145 0.0125

Uranus 26167-06-23 03:36 G 11278533.56 11278533.65 11278533.76 0.0145 0.0103

Moon 26167-08-14 07:12 G 11278585.67 11278585.80 11278585.92 0.2658 0.1321

Earth 26167-08-14 08:24 G 11278585.72 11278585.85 11278585.99 0.2661 0.1142 *

Jupiter 26167-09-17 06:00 G 11278619.64 11278619.75 11278619.86 0.0513 0.0302

Uranus 26167-09-19 08:09 G 11278621.72 11278621.84 11278621.96 0.0145 0.0081

Jupiter 26167-12-15 14:09 G 11278708.97 11278709.09 11278709.20 0.0509 0.0284

Uranus 26167-12-16 12:43 G 11278709.90 11278710.03 11278710.16 0.0145 0.0058

Uranus 26168-03-13 17:17 G 11278798.08 11278798.22 11278798.36 0.0145 0.0036

Uranus 26168-06-09 21:50 G 11278886.27 11278886.41 11278886.56 0.0145 0.0013

Uranus 26168-09-06 02:38 G 11278974.46 11278974.61 11278974.75 0.0145 0.0011

Uranus 26168-12-03 07:12 G 11279062.66 11279062.80 11279062.94 0.0145 0.0033

Uranus 26169-03-01 11:45 G 11279150.86 11279150.99 11279151.13 0.0145 0.0057

Uranus 26169-05-28 16:33 G 11279239.07 11279239.19 11279239.32 0.0145 0.0080

Uranus 26169-08-24 21:21 G 11279327.29 11279327.39 11279327.50 0.0145 0.0104

Uranus 26169-11-21 02:24 G 11279415.53 11279415.60 11279415.67 0.0145 0.0127

Moon 26170-02-13 07:26 G 11279499.70 11279499.81 11279499.92 0.2671 0.0679

Earth 26170-02-13 08:09 G 11279499.73 11279499.84 11279499.96 0.2671 0.0603 *

Mars 26170-05-16 09:50 G 11279591.78 11279591.91 11279592.03 0.1690 0.0550

Jupiter 26174-02-13 20:09 G 11280961.18 11280961.34 11280961.51 0.0516 0.0084

Mars 26178-12-14 17:17 G 11282726.10 11282726.22 11282726.34 0.1849 0.0960

Jupiter 26179-07-06 09:50 G 11282929.85 11282929.91 11282929.98 0.0514 0.0442

Jupiter 26179-10-03 17:45 G 11283019.11 11283019.24 11283019.37 0.0510 0.0142

Mars 26179-10-06 17:45 G 11283022.12 11283022.24 11283022.37 0.1697 0.0326

Saturn 26180-02-23 04:05 G 11283161.62 11283161.67 11283161.71 0.0294 0.0283

Saturn 26180-05-22 00:57 G 11283250.39 11283250.54 11283250.70 0.0294 0.0124

Moon 26180-08-16 10:05 G 11283336.78 11283336.92 11283337.05 0.2662 0.1040

Earth 26180-08-16 11:17 G 11283336.84 11283336.97 11283337.10 0.2660 0.1251 *

Saturn 26180-08-18 21:36 G 11283339.23 11283339.40 11283339.56 0.0294 0.0032

Saturn 26180-11-15 17:31 G 11283428.10 11283428.23 11283428.36 0.0294 0.0184

Moon 26183-02-16 02:38 G 11284250.50 11284250.61 11284250.72 0.2675 0.0774

Earth 26183-02-16 03:07 G 11284250.52 11284250.63 11284250.74 0.2671 0.0927 *

Pluto 26185-07-06 03:50 G 11285121.64 11285121.66 11285121.70 0.0070 0.0068

Pluto 26185-10-02 04:33 G 11285209.63 11285209.69 11285209.77 0.0070 0.0058

Jupiter 26185-12-02 18:43 G 11285271.14 11285271.28 11285271.42 0.0515 0.0278

Pluto 26185-12-29 05:02 G 11285297.63 11285297.71 11285297.81 0.0070 0.0049

Jupiter 26186-03-02 21:36 G 11285361.34 11285361.40 11285361.45 0.0518 0.0485

Pluto 26186-03-27 05:45 G 11285385.63 11285385.74 11285385.85 0.0070 0.0039

Pluto 26186-06-23 06:14 G 11285473.65 11285473.76 11285473.88 0.0070 0.0030

Pluto 26186-09-19 06:43 G 11285561.66 11285561.78 11285561.91 0.0070 0.0021

Pluto 26186-12-16 07:26 G 11285649.68 11285649.81 11285649.94 0.0070 0.0010

Pluto 26187-03-14 08:09 G 11285737.71 11285737.84 11285737.97 0.0070 0.0001

Pluto 26187-06-10 08:38 G 11285825.73 11285825.86 11285825.99 0.0070 0.0009

Pluto 26187-09-06 09:07 G 11285913.76 11285913.88 11285914.01 0.0071 0.0019

Pluto 26187-12-03 09:50 G 11286001.79 11286001.91 11286002.03 0.0071 0.0029

Pluto 26188-02-29 10:19 G 11286089.83 11286089.93 11286090.05 0.0071 0.0039

Mars 26188-05-05 19:41 G 11286156.18 11286156.32 11286156.46 0.1841 0.0422

Pluto 26188-05-27 11:02 G 11286177.87 11286177.96 11286178.06 0.0071 0.0049

Pluto 26188-08-23 11:31 G 11286265.92 11286265.98 11286266.06 0.0071 0.0059

Pluto 26188-11-19 12:14 G 11286353.99 11286354.01 11286354.04 0.0071 0.0069

Mars 26189-02-26 02:09 G 11286452.50 11286452.59 11286452.68 0.1704 0.1185

Jupiter 26191-07-22 21:50 G 11287329.27 11287329.41 11287329.54 0.0511 0.0017

Saturn 26194-12-06 02:38 G 11288561.52 11288561.61 11288561.70 0.0266 0.0195

Saturn 26195-03-04 14:09 G 11288649.96 11288650.09 11288650.22 0.0266 0.0102

Saturn 26195-06-01 01:55 G 11288738.44 11288738.58 11288738.72 0.0266 0.0007

Saturn 26195-08-28 13:55 G 11288826.94 11288827.08 11288827.22 0.0266 0.0091

Saturn 26195-11-25 01:55 G 11288915.49 11288915.58 11288915.69 0.0266 0.0191

Earth 26196-02-18 22:19 G 11289001.39 11289001.43 11289001.47 0.2671 0.2477

Moon 26196-02-18 22:19 G 11289001.40 11289001.43 11289001.46 0.2678 0.2547 *

Venus 26196-07-14 19:26 G 11289148.24 11289148.31 11289148.38 0.3691 0.3059

Jupiter 26197-09-20 17:17 G 11289581.15 11289581.22 11289581.29 0.0514 0.0471

Mars 26197-09-25 22:19 G 11289586.40 11289586.43 11289586.46 0.1833 0.1784

Jupiter 26197-12-19 20:38 G 11289671.23 11289671.36 11289671.50 0.0518 0.0299

Mars 26200-06-25 01:41 G 11290588.52 11290588.57 11290588.62 0.1684 0.1538

Venus 26202-01-29 17:31 G 11291172.11 11291172.23 11291172.36 0.3692 0.0722

Moon 26203-02-12 17:45 G 11291551.16 11291551.24 11291551.33 0.2666 0.1859

Earth 26203-02-12 18:29 G 11291551.18 11291551.27 11291551.35 0.2671 0.1772 *

Jupiter 26203-05-12 01:26 G 11291639.43 11291639.56 11291639.69 0.0512 0.0141

Jupiter 26203-08-09 09:50 G 11291728.85 11291728.91 11291728.98 0.0509 0.0448

Venus 26203-08-12 17:02 G 11291732.11 11291732.21 11291732.30 0.3679 0.2116

Venus 26207-08-15 15:21 G 11293196.02 11293196.14 11293196.25 0.3693 0.1517

Uranus 26208-10-23 06:29 G 11293630.70 11293630.77 11293630.84 0.0133 0.0121

Uranus 26209-01-19 11:45 G 11293718.89 11293718.99 11293719.11 0.0133 0.0100

Venus 26209-02-25 12:29 G 11293755.90 11293756.02 11293756.13 0.3678 0.0283

Uranus 26209-04-17 17:17 G 11293807.09 11293807.22 11293807.36 0.0133 0.0078

Uranus 26209-07-14 22:48 G 11293895.30 11293895.45 11293895.61 0.0133 0.0057

Jupiter 26209-10-08 20:09 G 11293981.18 11293981.34 11293981.51 0.0517 0.0121

Saturn 26209-10-09 22:33 G 11293982.31 11293982.44 11293982.58 0.0294 0.0182

Uranus 26209-10-11 04:05 G 11293983.51 11293983.67 11293983.84 0.0133 0.0036

Mars 26209-11-15 09:50 G 11294018.79 11294018.91 11294019.03 0.1691 0.0667

Saturn 26210-01-06 19:26 G 11294071.14 11294071.31 11294071.47 0.0294 0.0025

Uranus 26210-01-07 09:36 G 11294071.73 11294071.90 11294072.07 0.0133 0.0015

Uranus 26210-04-05 14:53 G 11294159.95 11294160.12 11294160.29 0.0133 0.0005

Saturn 26210-04-05 15:21 G 11294160.00 11294160.14 11294160.30 0.0294 0.0129 *

Uranus 26210-07-02 19:55 G 11294248.17 11294248.33 11294248.50 0.0133 0.0027

Saturn 26210-07-03 11:17 G 11294248.92 11294248.97 11294249.02 0.0293 0.0277

Uranus 26210-09-29 01:12 G 11294336.40 11294336.55 11294336.71 0.0133 0.0046

Uranus 26210-12-26 06:29 G 11294424.63 11294424.77 11294424.91 0.0133 0.0066

Uranus 26211-03-24 11:31 G 11294512.86 11294512.98 11294513.11 0.0133 0.0086

Uranus 26211-06-20 16:33 G 11294601.10 11294601.19 11294601.29 0.0133 0.0106

Uranus 26211-09-16 21:21 G 11294689.35 11294689.39 11294689.46 0.0133 0.0126

Venus 26213-02-28 12:29 G 11295220.00 11295220.02 11295220.04 0.3693 0.3633

Moon 26213-08-15 13:12 G 11295387.91 11295388.05 11295388.19 0.2658 0.0803

Earth 26213-08-15 14:38 G 11295387.97 11295388.11 11295388.25 0.2661 0.0648 *

Venus 26214-09-11 08:09 G 11295779.73 11295779.84 11295779.94 0.3678 0.1664

Jupiter 26215-02-28 04:33 G 11295949.58 11295949.69 11295949.80 0.0513 0.0297

Jupiter 26215-05-28 12:29 G 11296038.91 11296039.02 11296039.14 0.0509 0.0288

Moon 26216-02-15 12:29 G 11296301.90 11296302.02 11296302.13 0.2671 0.0416

Earth 26216-02-15 13:12 G 11296301.94 11296302.05 11296302.17 0.2671 0.0285 *

Mars 26218-06-15 17:17 G 11297153.11 11297153.22 11297153.33 0.1850 0.1098

Mars 26219-04-07 18:00 G 11297449.12 11297449.25 11297449.38 0.1697 0.0197

Venus 26220-03-27 04:05 G 11297803.67 11297803.67 11297803.67 0.3677 0.3672

Jupiter 26221-07-27 19:12 G 11298291.13 11298291.30 11298291.47 0.0516 0.0068

Saturn 26224-04-25 05:31 G 11299293.65 11299293.73 11299293.81 0.0266 0.0219

Saturn 26224-07-22 17:02 G 11299382.09 11299382.21 11299382.33 0.0266 0.0125

Saturn 26224-10-19 04:48 G 11299470.56 11299470.70 11299470.84 0.0266 0.0029

Saturn 26225-01-15 16:33 G 11299559.06 11299559.19 11299559.34 0.0266 0.0069

Saturn 26225-04-14 04:48 G 11299647.59 11299647.70 11299647.82 0.0266 0.0167

Moon 26226-08-18 16:05 G 11300139.06 11300139.17 11300139.28 0.2664 0.1599

Earth 26226-08-18 17:17 G 11300139.11 11300139.22 11300139.33 0.2660 0.1720 *

Jupiter 26226-12-17 08:09 G 11300259.77 11300259.84 11300259.90 0.0513 0.0444

Jupiter 26227-03-16 16:05 G 11300349.03 11300349.17 11300349.30 0.0510 0.0139

Mars 26227-11-05 20:09 G 11300583.20 11300583.34 11300583.48 0.1842 0.0247

Mars 26228-08-28 02:24 G 11300879.50 11300879.60 11300879.70 0.1704 0.1063

Moon 26229-02-17 07:41 G 11301052.72 11301052.82 11301052.92 0.2676 0.1217

Earth 26229-02-17 08:09 G 11301052.74 11301052.84 11301052.95 0.2671 0.1242 *

Jupiter 26233-05-15 17:02 G 11302601.07 11302601.21 11302601.35 0.0515 0.0272

Jupiter 26233-08-13 19:55 G 11302691.28 11302691.33 11302691.38 0.0518 0.0491

Mars 26237-03-27 22:33 G 11304013.38 11304013.44 11304013.51 0.1833 0.1628

Jupiter 26239-01-02 19:41 G 11304659.19 11304659.32 11304659.46 0.0511 0.0007

Saturn 26239-02-27 00:14 G 11304714.40 11304714.51 11304714.63 0.0294 0.0213

Saturn 26239-05-26 21:07 G 11304803.22 11304803.38 11304803.55 0.0294 0.0055

Saturn 26239-08-23 17:31 G 11304892.07 11304892.23 11304892.38 0.0294 0.0099

Saturn 26239-11-20 13:12 G 11304980.97 11304981.05 11304981.14 0.0294 0.0249

Mars 26239-12-25 01:55 G 11305015.56 11305015.58 11305015.60 0.1684 0.1659

Neptune 26244-09-09 19:55 G 11306736.27 11306736.33 11306736.39 0.0089 0.0083

Neptune 26244-12-06 22:33 G 11306824.36 11306824.44 11306824.55 0.0089 0.0074

Jupiter 26245-03-03 15:21 G 11306911.07 11306911.14 11306911.21 0.0514 0.0469

Neptune 26245-03-05 01:26 G 11306912.46 11306912.56 11306912.70 0.0089 0.0065

Neptune 26245-06-01 04:33 G 11307000.56 11307000.69 11307000.83 0.0089 0.0055

Jupiter 26245-06-01 18:43 G 11307001.14 11307001.28 11307001.41 0.0517 0.0300

Neptune 26245-08-28 07:12 G 11307088.67 11307088.80 11307088.97 0.0089 0.0047

Neptune 26245-11-24 10:05 G 11307176.78 11307176.92 11307177.10 0.0089 0.0037

Neptune 26246-02-20 13:12 G 11307264.89 11307265.05 11307265.22 0.0089 0.0027

Neptune 26246-05-19 16:05 G 11307353.00 11307353.17 11307353.34 0.0089 0.0018

Earth 26246-08-13 17:45 G 11307439.21 11307439.24 11307439.26 0.2661 0.2621

Neptune 26246-08-15 18:57 G 11307441.12 11307441.29 11307441.46 0.0089 0.0009

Neptune 26246-11-11 21:50 G 11307529.23 11307529.41 11307529.58 0.0089 0.0002

Neptune 26247-02-08 00:29 G 11307617.35 11307617.52 11307617.70 0.0089 0.0010

Neptune 26247-05-07 03:07 G 11307705.47 11307705.63 11307705.81 0.0089 0.0019

Neptune 26247-08-03 05:45 G 11307793.59 11307793.74 11307793.92 0.0089 0.0029

Neptune 26247-10-30 08:38 G 11307881.71 11307881.86 11307882.03 0.0089 0.0037

Neptune 26248-01-26 11:17 G 11307969.84 11307969.97 11307970.13 0.0089 0.0046

Neptune 26248-04-23 13:55 G 11308057.96 11308058.08 11308058.23 0.0089 0.0055

Neptune 26248-07-20 16:33 G 11308146.09 11308146.19 11308146.33 0.0089 0.0064

Neptune 26248-10-16 19:41 G 11308234.22 11308234.32 11308234.42 0.0089 0.0073

Neptune 26249-01-12 22:19 G 11308322.37 11308322.43 11308322.50 0.0089 0.0081

Moon 26249-02-12 22:48 G 11308353.35 11308353.45 11308353.54 0.2668 0.1518

Earth 26249-02-12 23:17 G 11308353.38 11308353.47 11308353.57 0.2670 0.1467 *

Mars 26249-05-16 09:50 G 11308445.80 11308445.91 11308446.03 0.1690 0.0793

Jupiter 26250-10-21 23:31 G 11308969.35 11308969.48 11308969.61 0.0512 0.0146

Uranus 26251-01-19 01:26 G 11309058.55 11309058.56 11309058.57 0.0145 0.0144

Jupiter 26251-01-19 07:55 G 11309058.77 11309058.83 11309058.90 0.0509 0.0443

Uranus 26251-04-17 06:00 G 11309146.67 11309146.75 11309146.82 0.0145 0.0122

Uranus 26251-07-14 10:19 G 11309234.83 11309234.93 11309235.03 0.0145 0.0100

Uranus 26251-10-10 14:53 G 11309323.00 11309323.12 11309323.24 0.0145 0.0078

Uranus 26252-01-06 19:12 G 11309411.17 11309411.30 11309411.44 0.0145 0.0056

Uranus 26252-04-04 00:00 G 11309499.36 11309499.50 11309499.64 0.0145 0.0033

Uranus 26252-07-01 04:33 G 11309587.54 11309587.69 11309587.83 0.0145 0.0010

Uranus 26252-09-27 09:07 G 11309675.74 11309675.88 11309676.03 0.0145 0.0013

Uranus 26252-12-24 13:55 G 11309763.93 11309764.08 11309764.22 0.0145 0.0036

Venus 26253-02-19 18:43 G 11309821.18 11309821.28 11309821.38 0.3691 0.2278

Uranus 26253-03-22 18:29 G 11309852.14 11309852.27 11309852.41 0.0145 0.0059

Uranus 26253-06-18 23:02 G 11309940.35 11309940.46 11309940.59 0.0145 0.0083

Saturn 26253-09-12 08:09 G 11310025.79 11310025.84 11310025.89 0.0266 0.0243

Uranus 26253-09-15 04:05 G 11310028.57 11310028.67 11310028.77 0.0145 0.0106

Saturn 26253-12-09 19:41 G 11310114.20 11310114.32 11310114.43 0.0266 0.0150

Uranus 26253-12-12 08:53 G 11310116.81 11310116.87 11310116.93 0.0145 0.0130

Saturn 26254-03-08 07:12 G 11310202.66 11310202.80 11310202.94 0.0266 0.0055

Saturn 26254-06-04 19:12 G 11310291.16 11310291.30 11310291.44 0.0266 0.0042

Saturn 26254-09-01 07:12 G 11310379.68 11310379.80 11310379.92 0.0266 0.0140

Venus 26254-09-02 20:09 G 11310381.30 11310381.34 11310381.39 0.3679 0.3301

Saturn 26254-11-28 19:26 G 11310468.25 11310468.31 11310468.37 0.0266 0.0240

Jupiter 26257-03-20 17:31 G 11311311.07 11311311.23 11311311.39 0.0517 0.0109

Mars 26257-12-14 18:00 G 11311580.15 11311580.25 11311580.35 0.1850 0.1283

Venus 26258-09-05 16:48 G 11311845.07 11311845.20 11311845.32 0.3692 0.0068

Mars 26258-10-06 18:00 G 11311876.12 11311876.25 11311876.39 0.1697 0.0100

Moon 26259-08-16 19:26 G 11312190.16 11312190.31 11312190.45 0.2659 0.0393

Earth 26259-08-16 20:38 G 11312190.22 11312190.36 11312190.51 0.2661 0.0174 *

Venus 26260-03-18 15:21 G 11312405.04 11312405.14 11312405.25 0.3679 0.1504

Moon	26262-02-15 17:17 G	11313104.11	11313104.22	11313104.34	0.2672	0.0133
Earth	26262-02-15 18:14 G	11313104.14	11313104.26	11313104.37	0.2671	0.0043 *
Jupiter	26262-08-10 03:21 G	11313279.54	11313279.64	11313279.76	0.0513	0.0288
Jupiter	26262-11-07 11:31 G	11313368.87	11313368.98	11313369.09	0.0509	0.0299
Venus	26264-03-21 14:24 G	11313869.00	11313869.10	11313869.19	0.3693	0.2240
Venus	26265-10-02 11:02 G	11314428.84	11314428.96	11314429.07	0.3678	0.0395
Mars	26267-05-06 20:24 G	11315010.21	11315010.35	11315010.49	0.1841	0.0097
Mars	26268-02-27 02:24 G	11315306.49	11315306.60	11315306.71	0.1704	0.0942
Saturn	26268-07-15 22:05 G	11315446.36	11315446.42	11315446.49	0.0294	0.0269
Saturn	26268-10-12 18:57 G	11315535.14	11315535.29	11315535.45	0.0294	0.0111
Jupiter	26269-01-06 16:48 G	11315621.04	11315621.20	11315621.37	0.0516	0.0074
Saturn	26269-01-09 15:36 G	11315623.99	11315624.15	11315624.32	0.0294	0.0045
Saturn	26269-04-08 11:31 G	11315712.86	11315712.98	11315713.10	0.0293	0.0196
Venus	26271-04-18 06:43 G	11316452.69	11316452.78	11316452.87	0.3678	0.2328
Pluto	26271-08-16 05:31 G	11316572.69	11316572.73	11316572.82	0.0074	0.0070
Pluto	26271-11-12 08:38 G	11316660.72	11316660.86	11316661.00	0.0074	0.0052
Pluto	26272-02-08 11:02 G	11316748.79	11316748.96	11316749.14	0.0074	0.0035
Pluto	26272-05-06 13:26 G	11316836.88	11316837.06	11316837.27	0.0074	0.0019
Pluto	26272-08-02 16:19 G	11316924.98	11316925.18	11316925.38	0.0073	0.0001
Moon	26272-08-18 22:05 G	11316941.34	11316941.42	11316941.51	0.2665	0.2063
Earth	26272-08-18 23:17 G	11316941.39	11316941.47	11316941.55	0.2660	0.2190 *
Pluto	26272-10-29 18:57 G	11317013.09	11317013.29	11317013.48	0.0073	0.0016
Pluto	26273-01-25 21:07 G	11317101.21	11317101.38	11317101.57	0.0073	0.0033
Pluto	26273-04-23 23:31 G	11317189.35	11317189.48	11317189.64	0.0073	0.0049
Pluto	26273-07-21 02:09 G	11317277.51	11317277.59	11317277.68	0.0073	0.0065
Jupiter	26274-05-29 06:43 G	11317589.71	11317589.78	11317589.84	0.0513	0.0441
Jupiter	26274-08-26 14:24 G	11317678.97	11317679.10	11317679.24	0.0510	0.0141
Moon	26275-02-18 12:57 G	11317854.94	11317855.04	11317855.13	0.2677	0.1492
Earth	26275-02-18 13:12 G	11317854.96	11317855.05	11317855.14	0.2671	0.1560 *
Mars	26276-09-25 23:02 G	11318440.37	11318440.46	11318440.54	0.1833	0.1470

Jupiter 26280-10-25 15:36 G 11319931.01 11319931.15 11319931.30 0.0515 0.0263

Jupiter 26281-01-23 18:29 G 11320021.24 11320021.27 11320021.31 0.0519 0.0503

Moon 26282-02-11 09:21 G 11320404.87 11320404.89 11320404.91 0.2664 0.2586

Earth 26282-02-11 09:36 G 11320404.88 11320404.90 11320404.92 0.2670 0.2626 *

Saturn 26283-04-28 22:19 G 11320846.33 11320846.43 11320846.54 0.0266 0.0174

Saturn 26283-07-26 10:05 G 11320934.78 11320934.92 11320935.05 0.0266 0.0079

Saturn 26283-10-22 21:50 G 11321023.27 11321023.41 11321023.56 0.0267 0.0018

Saturn 26284-01-19 09:50 G 11321111.78 11321111.91 11321112.04 0.0267 0.0116

Saturn 26284-04-16 22:19 G 11321200.34 11321200.43 11321200.51 0.0267 0.0216

Jupiter 26286-06-14 17:45 G 11321989.11 11321989.24 11321989.38 0.0511 0.0018

Mars 26288-11-14 10:05 G 11322872.81 11322872.92 11322873.03 0.1690 0.0919

Jupiter 26292-08-13 13:26 G 11324240.99 11324241.06 11324241.13 0.0514 0.0467

Moon 26292-08-13 22:33 G 11324241.38 11324241.44 11324241.51 0.2657 0.2368

Earth 26292-08-13 23:45 G 11324241.41 11324241.49 11324241.58 0.2661 0.2122 *

Jupiter 26292-11-11 16:48 G 11324331.07 11324331.20 11324331.33 0.0517 0.0302

Uranus 26292-11-12 12:57 G 11324331.97 11324332.04 11324332.13 0.0133 0.0117

Uranus 26293-02-08 18:29 G 11324420.16 11324420.27 11324420.40 0.0133 0.0095

Uranus 26293-05-07 23:45 G 11324508.36 11324508.49 11324508.65 0.0133 0.0075

Uranus 26293-08-04 05:31 G 11324596.58 11324596.73 11324596.89 0.0133 0.0053

Uranus 26293-10-31 10:48 G 11324684.79 11324684.95 11324685.12 0.0133 0.0032

Uranus 26294-01-27 16:19 G 11324773.01 11324773.18 11324773.35 0.0133 0.0011

Uranus 26294-04-25 21:36 G 11324861.23 11324861.40 11324861.57 0.0133 0.0010

Uranus 26294-07-23 02:38 G 11324949.45 11324949.61 11324949.78 0.0133 0.0031

Uranus 26294-10-19 07:55 G 11325037.68 11325037.83 11325037.99 0.0133 0.0051

Uranus 26295-01-15 13:12 G 11325125.91 11325126.05 11325126.19 0.0133 0.0070

Moon 26295-02-14 03:36 G 11325155.55 11325155.65 11325155.75 0.2669 0.1323

Earth 26295-02-14 04:19 G 11325155.58 11325155.68 11325155.78 0.2670 0.1158 *

Uranus 26295-04-13 18:14 G 11325214.14 11325214.26 11325214.39 0.0133 0.0091

Uranus 26295-07-10 23:17 G 11325302.39 11325302.47 11325302.57 0.0133 0.0110

Uranus 26295-10-07 04:05 G 11325390.65 11325390.67 11325390.72 0.0133 0.0131

Mars 26297-06-14 18:14 G 11326007.17 11326007.26 11326007.35 0.1850 0.1440

Saturn 26298-03-01 21:07 G 11326267.23 11326267.38 11326267.53 0.0294 0.0139

Jupiter 26298-04-02 21:36 G 11326299.27 11326299.40 11326299.53 0.0512 0.0154

Mars 26298-04-06 18:14 G 11326303.13 11326303.26 11326303.39 0.1697 0.0045

Saturn 26298-05-29 17:45 G 11326356.07 11326356.24 11326356.41 0.0294 0.0018

Jupiter 26298-07-01 05:45 G 11326388.67 11326388.74 11326388.81 0.0509 0.0435

Saturn 26298-08-26 13:55 G 11326444.94 11326445.08 11326445.21 0.0294 0.0170

Jupiter 26304-08-31 15:21 G 11328640.98 11328641.14 11328641.31 0.0516 0.0109

Moon 26305-08-18 01:26 G 11328992.42 11328992.56 11328992.70 0.2661 0.0219

Earth 26305-08-18 02:53 G 11328992.47 11328992.62 11328992.76 0.2661 0.0321 *

Mars 26306-11-05 20:53 G 11329437.23 11329437.37 11329437.51 0.1842 0.0073

Mars 26307-08-29 02:24 G 11329733.49 11329733.60 11329733.72 0.1704 0.0824

Moon 26308-02-17 22:33 G 11329906.32 11329906.44 11329906.55 0.2672 0.0279

Earth 26308-02-17 23:17 G 11329906.35 11329906.47 11329906.58 0.2671 0.0353 *

Venus 26309-09-27 18:00 G 11330494.14 11330494.25 11330494.36 0.3692 0.1496

Jupiter 26310-01-21 01:26 G 11330609.45 11330609.56 11330609.67 0.0513 0.0295

Jupiter 26310-04-20 09:36 G 11330698.79 11330698.90 11330699.01 0.0510 0.0292

Venus 26311-04-10 18:43 G 11331054.20 11331054.28 11331054.36 0.3679 0.2700

Saturn 26312-09-16 01:26 G 11331578.46 11331578.56 11331578.65 0.0266 0.0196

Saturn 26312-12-13 12:57 G 11331666.91 11331667.04 11331667.17 0.0266 0.0102

Saturn 26313-03-12 00:43 G 11331755.39 11331755.53 11331755.67 0.0266 0.0007

Saturn 26313-06-08 12:43 G 11331843.89 11331844.03 11331844.16 0.0266 0.0092

Saturn 26313-09-05 00:43 G 11331932.44 11331932.53 11331932.64 0.0266 0.0191

Venus 26315-04-13 15:50 G 11332518.04 11332518.16 11332518.28 0.3692 0.0790

Mars 26316-03-27 23:31 G 11332867.38 11332867.48 11332867.58 0.1833 0.1299

Jupiter 26316-06-19 13:55 G 11332950.91 11332951.08 11332951.25 0.0516 0.0086

Venus 26316-10-24 13:55 G 11333077.97 11333078.08 11333078.20 0.3679 0.0875

Mars 26317-01-18 10:48 G 11333163.93 11333163.95 11333163.96 0.1711 0.1694

Moon 26318-08-21 04:19 G 11333743.63 11333743.68 11333743.72 0.2665 0.2505

Earth 26318-08-21 05:17 G 11333743.72 11333743.72 11333743.73 0.2660 0.2654 *

Venus 26320-10-27 13:12 G 11334541.98 11334542.05 11334542.13 0.3693 0.2956

Moon 26321-02-19 17:45 G 11334657.16 11334657.24 11334657.33 0.2677 0.1850

Earth 26321-02-19 18:14 G 11334657.18 11334657.26 11334657.34 0.2671 0.1879 *

Jupiter 26321-11-09 05:17 G 11334919.65 11334919.72 11334919.79 0.0514 0.0435

Jupiter 26322-02-06 13:12 G 11335008.92 11335009.05 11335009.18 0.0510 0.0148

Venus 26322-05-10 09:36 G 11335101.78 11335101.90 11335102.01 0.3678 0.1031

Neptune 26325-06-21 09:50 G 11336239.88 11336239.91 11336239.96 0.0088 0.0084

Neptune 26325-09-17 11:31 G 11336327.92 11336327.98 11336328.05 0.0088 0.0076

Neptune 26325-12-14 12:57 G 11336415.96 11336416.04 11336416.14 0.0088 0.0070

Neptune 26326-03-12 14:38 G 11336504.02 11336504.11 11336504.21 0.0088 0.0062

Neptune 26326-06-08 16:05 G 11336592.07 11336592.17 11336592.29 0.0088 0.0055

Neptune 26326-09-04 17:45 G 11336680.13 11336680.24 11336680.37 0.0088 0.0048

Neptune 26326-12-01 19:26 G 11336768.19 11336768.31 11336768.44 0.0088 0.0041

Neptune 26327-02-27 21:07 G 11336856.25 11336856.38 11336856.51 0.0088 0.0033

Neptune 26327-05-26 22:33 G 11336944.31 11336944.44 11336944.58 0.0088 0.0026

Saturn 26327-07-20 19:41 G 11336999.19 11336999.32 11336999.45 0.0294 0.0190

Neptune 26327-08-23 00:14 G 11337032.37 11337032.51 11337032.65 0.0088 0.0019

Saturn 26327-10-17 16:19 G 11337088.02 11337088.18 11337088.35 0.0293 0.0034

Neptune 26327-11-19 01:55 G 11337120.44 11337120.58 11337120.72 0.0088 0.0012

Venus 26327-11-24 05:17 G 11337125.66 11337125.72 11337125.79 0.3678 0.3004

Saturn 26328-01-14 12:43 G 11337176.88 11337177.03 11337177.18 0.0293 0.0121

Moon 26328-02-13 14:09 G 11337207.05 11337207.09 11337207.14 0.2665 0.2419

Earth 26328-02-13 14:38 G 11337207.05 11337207.11 11337207.16 0.2670 0.2316 *

Neptune 26328-02-15 03:36 G 11337208.50 11337208.65 11337208.79 0.0088 0.0004

Jupiter 26328-04-07 12:57 G 11337260.90 11337261.04 11337261.19 0.0515 0.0271

Saturn 26328-04-12 08:24 G 11337265.79 11337265.85 11337265.91 0.0293 0.0270

Neptune 26328-05-13 05:02 G 11337296.57 11337296.71 11337296.86 0.0088 0.0005

Mars 26328-05-16 10:05 G 11337299.82 11337299.92 11337300.03 0.1690 0.1042

Jupiter 26328-07-06 16:05 G 11337351.12 11337351.17 11337351.22 0.0519 0.0495

Neptune 26328-08-09 06:43 G 11337384.64 11337384.78 11337384.93 0.0088 0.0011

Neptune 26328-11-05 08:24 G 11337472.71 11337472.85 11337472.99 0.0088 0.0018

Neptune 26329-02-01 10:05 G 11337560.78 11337560.92 11337561.06 0.0088 0.0025

Neptune 26329-04-30 11:45 G 11337648.86 11337648.99 11337649.13 0.0088 0.0032

Neptune 26329-07-27 13:12 G 11337736.93 11337737.05 11337737.19 0.0088 0.0040

Neptune 26329-10-23 14:53 G 11337825.01 11337825.12 11337825.25 0.0088 0.0048

Neptune 26330-01-19 16:33 G 11337913.09 11337913.19 11337913.31 0.0088 0.0055

Neptune 26330-04-17 18:14 G 11338001.17 11338001.26 11338001.37 0.0088 0.0063

Neptune 26330-07-14 19:55 G 11338089.25 11338089.33 11338089.43 0.0088 0.0070

Neptune 26330-10-10 21:36 G 11338177.34 11338177.40 11338177.48 0.0088 0.0078

Neptune 26331-01-06 23:17 G 11338265.45 11338265.47 11338265.52 0.0088 0.0085

Jupiter 26333-11-25 16:19 G 11339319.04 11339319.18 11339319.31 0.0511 0.0013

Uranus 26335-02-09 08:09 G 11339759.81 11339759.84 11339759.87 0.0145 0.0141

Uranus 26335-05-08 12:29 G 11339847.95 11339848.02 11339848.11 0.0145 0.0119

Uranus 26335-08-04 17:02 G 11339936.11 11339936.21 11339936.32 0.0145 0.0097

Uranus 26335-10-31 21:21 G 11340024.28 11340024.39 11340024.52 0.0145 0.0075

Uranus 26336-01-28 02:09 G 11340112.45 11340112.59 11340112.72 0.0145 0.0052

Uranus 26336-04-25 06:43 G 11340200.64 11340200.78 11340200.92 0.0145 0.0030

Uranus 26336-07-22 11:17 G 11340288.82 11340288.97 11340289.12 0.0145 0.0007

Uranus 26336-10-18 15:50 G 11340377.02 11340377.16 11340377.31 0.0145 0.0017

Mars 26336-12-14 18:29 G 11340434.20 11340434.27 11340434.34 0.1850 0.1590

Uranus 26337-01-14 20:24 G 11340465.22 11340465.35 11340465.50 0.0145 0.0040

Uranus 26337-04-13 01:12 G 11340553.42 11340553.55 11340553.69 0.0145 0.0063

Uranus 26337-07-10 06:00 G 11340641.63 11340641.75 11340641.87 0.0145 0.0086

Uranus 26337-10-06 10:33 G 11340729.86 11340729.94 11340730.05 0.0145 0.0110

Mars 26337-10-06 18:29 G 11340730.14 11340730.27 11340730.40 0.1697 0.0175

Uranus 26338-01-02 15:21 G 11340818.10 11340818.14 11340818.21 0.0145 0.0134

Moon 26338-08-16 04:33 G 11341043.58 11341043.69 11341043.81 0.2657 0.1691

Earth 26338-08-16 05:45 G 11341043.63 11341043.74 11341043.86 0.2661 0.1639 *

Jupiter 26340-01-25 11:45 G 11341570.91 11341570.99 11341571.06 0.0514 0.0462

Jupiter 26340-04-24 15:07 G 11341661.00 11341661.13 11341661.27 0.0518 0.0310

Moon 26341-02-15 08:24 G 11341957.74 11341957.85 11341957.96 0.2669 0.0896

Earth 26341-02-15 09:21 G 11341957.78 11341957.89 11341958.00 0.2670 0.0853 *

Saturn 26342-02-03 04:05 G 11342310.59 11342310.67 11342310.74 0.0267 0.0222

Saturn 26342-05-02 15:36 G 11342399.03 11342399.15 11342399.27 0.0267 0.0128

Saturn 26342-07-30 03:21 G 11342487.50 11342487.64 11342487.78 0.0267 0.0032

Saturn 26342-10-26 15:07 G 11342575.99 11342576.13 11342576.27 0.0267 0.0067

Saturn 26343-01-23 03:21 G 11342664.53 11342664.64 11342664.75 0.0267 0.0166

Saturn 26343-04-21 15:50 G 11342753.16 11342753.16 11342753.16 0.0267 0.0267

Jupiter 26345-09-13 19:41 G 11343629.19 11343629.32 11343629.45 0.0512 0.0157

Jupiter 26345-12-12 03:50 G 11343718.59 11343718.66 11343718.74 0.0509 0.0430

Mars 26346-05-06 21:21 G 11343864.24 11343864.39 11343864.53 0.1842 0.0244

Mars 26347-02-27 02:38 G 11344160.49 11344160.61 11344160.73 0.1704 0.0703

Moon 26351-08-19 07:26 G 11345794.67 11345794.81 11345794.95 0.2663 0.0531

Earth 26351-08-19 08:53 G 11345794.73 11345794.87 11345795.01 0.2661 0.0792 *

Jupiter 26352-02-11 13:12 G 11345970.89 11345971.05 11345971.22 0.0516 0.0108

Moon 26354-02-18 03:36 G 11346708.53 11346708.65 11346708.76 0.2674 0.0530

Earth 26354-02-18 04:05 G 11346708.56 11346708.67 11346708.78 0.2671 0.0659 *

Mars 26355-09-26 23:45 G 11347294.38 11347294.49 11347294.61 0.1833 0.1133

Mars 26356-07-19 11:02 G 11347590.91 11347590.96 11347591.00 0.1711 0.1570

Saturn 26356-12-06 21:36 G 11347731.30 11347731.40 11347731.52 0.0294 0.0219

Saturn 26357-03-05 18:43 G 11347820.11 11347820.28 11347820.44 0.0294 0.0060

Saturn 26357-06-02 14:53 G 11347908.97 11347909.12 11347909.28 0.0294 0.0095

Jupiter 26357-07-02 23:17 G 11347939.36 11347939.47 11347939.58 0.0513 0.0303

Saturn 26357-08-30 10:48 G 11347997.86 11347997.95 11347998.04 0.0294 0.0245

Jupiter 26357-09-30 07:26 G 11348028.69 11348028.81 11348028.92 0.0510 0.0283

Venus 26360-10-18 18:57 G 11349143.23 11349143.29 11349143.36 0.3691 0.3099

Jupiter 26363-11-30 11:45 G 11350280.82 11350280.99 11350281.15 0.0515 0.0088

Venus 26366-05-04 17:17 G 11351167.09 11351167.22 11351167.34 0.3692 0.0734

Moon 26367-02-20 22:48 G 11351459.39 11351459.45 11351459.52 0.2677 0.2174

Earth 26367-02-20 23:02 G 11351459.40 11351459.46 11351459.53 0.2671 0.2200 *

Mars 26367-11-15 10:19 G 11351726.84 11351726.93 11351727.03 0.1690 0.1166

Venus 26367-11-15 17:02 G 11351727.12 11351727.21 11351727.31 0.3679 0.2101

Jupiter 26369-04-21 03:07 G 11352249.57 11352249.63 11352249.70 0.0514 0.0445

Jupiter 26369-07-19 11:02 G 11352338.83 11352338.96 11352339.09 0.0511 0.0140

Saturn 26371-06-23 07:12 G 11353042.75 11353042.80 11353042.86 0.0266 0.0242

Saturn 26371-09-19 18:43 G 11353131.16 11353131.28 11353131.40 0.0266 0.0148

Venus 26371-11-18 14:53 G 11353191.01 11353191.12 11353191.24 0.3693 0.1524

Saturn 26371-12-17 06:29 G 11353219.63 11353219.77 11353219.90 0.0266 0.0054

Saturn 26372-03-14 18:14 G 11353308.12 11353308.26 11353308.40 0.0266 0.0044

Saturn 26372-06-11 06:14 G 11353396.64 11353396.76 11353396.88 0.0266 0.0143

Saturn 26372-09-07 18:29 G 11353485.22 11353485.27 11353485.33 0.0267 0.0243

Venus 26373-05-31 12:29 G 11353750.90 11353751.02 11353751.14 0.3679 0.0244

Moon 26374-02-13 18:57 G 11354009.22 11354009.29 11354009.36 0.2666 0.2034

Earth 26374-02-13 19:26 G 11354009.24 11354009.31 11354009.39 0.2670 0.2014 *

Jupiter 26375-09-18 09:50 G 11354590.78 11354590.91 11354591.06 0.0515 0.0286

Jupiter 26375-12-17 12:57 G 11354680.98 11354681.04 11354681.10 0.0518 0.0480

Mars 26376-06-14 18:43 G 11354861.24 11354861.28 11354861.33 0.1850 0.1761

Uranus 26376-12-03 19:12 G 11355033.23 11355033.30 11355033.41 0.0133 0.0114

Uranus 26377-03-02 00:57 G 11355121.43 11355121.54 11355121.67 0.0133 0.0092

Mars 26377-04-06 18:29 G 11355157.14 11355157.27 11355157.40 0.1697 0.0288

Uranus 26377-05-29 06:29 G 11355209.63 11355209.77 11355209.92 0.0133 0.0071

Venus 26377-06-03 12:14 G 11355215.00 11355215.01 11355215.02 0.3693 0.3658

Uranus 26377-08-25 12:00 G 11355297.85 11355298.00 11355298.16 0.0133 0.0049

Uranus 26377-11-21 17:31 G 11355386.06 11355386.23 11355386.39 0.0133 0.0028

Uranus 26378-02-17 22:48 G 11355474.28 11355474.45 11355474.62 0.0133 0.0008

Uranus 26378-05-17 04:05 G 11355562.50 11355562.67 11355562.84 0.0133 0.0013

Uranus 26378-08-13 09:21 G 11355650.73 11355650.89 11355651.05 0.0133 0.0034

Uranus 26378-11-09 14:24 G 11355738.95 11355739.10 11355739.26 0.0133 0.0054

Venus 26378-12-15 07:55 G 11355774.73 11355774.83 11355774.94 0.3678 0.1677

Uranus 26379-02-05 19:26 G 11355827.19 11355827.31 11355827.46 0.0133 0.0075

Uranus 26379-05-05 00:43 G 11355915.42 11355915.53 11355915.65 0.0133 0.0094

Uranus 26379-08-01 06:00 G 11356003.66 11356003.75 11356003.83 0.0133 0.0114

Jupiter 26381-05-07 14:53 G 11356648.98 11356649.12 11356649.26 0.0511 0.0005

Moon 26384-08-16 10:48 G 11357845.82 11357845.95 11357846.07 0.2659 0.1382

Earth 26384-08-16 12:00 G 11357845.87 11357846.00 11357846.13 0.2661 0.1144 *

Mars 26385-11-04 21:36 G 11358291.26 11358291.40 11358291.54 0.1842 0.0397

Saturn 26386-04-25 20:24 G 11358463.29 11358463.35 11358463.42 0.0294 0.0268

Saturn 26386-07-23 17:31 G 11358552.07 11358552.23 11358552.39 0.0293 0.0109

Mars 26386-08-28 02:53 G 11358587.49 11358587.62 11358587.74 0.1704 0.0579

Saturn 26386-10-20 13:55 G 11358640.92 11358641.08 11358641.25 0.0293 0.0047

Saturn 26387-01-17 09:50 G 11358729.80 11358729.91 11358730.04 0.0293 0.0198

Moon 26387-02-16 13:26 G 11358759.95 11358760.06 11358760.17 0.2669 0.0711

Earth 26387-02-16 14:24 G 11358759.98 11358760.10 11358760.21 0.2670 0.0543 *

Jupiter 26387-07-07 08:53 G 11358900.81 11358900.87 11358900.93 0.0514 0.0473

Jupiter 26387-10-05 12:29 G 11358990.89 11358991.02 11358991.16 0.0518 0.0299

Jupiter 26393-02-23 18:00 G 11360959.13 11360959.25 11360959.38 0.0512 0.0157

Jupiter 26393-05-24 02:09 G 11361048.52 11361048.59 11361048.67 0.0508 0.0431

Mars 26395-03-28 00:00 G 11361721.38 11361721.50 11361721.63 0.1834 0.0981

Mars 26396-01-18 11:02 G 11362017.89 11362017.96 11362018.03 0.1710 0.1447

Moon 26397-08-19 13:26 G 11362596.94 11362597.06 11362597.19 0.2663 0.1195

Earth 26397-08-19 14:53 G 11362596.99 11362597.12 11362597.25 0.2661 0.1263 *

Jupiter 26399-07-24 11:31 G 11363300.81 11363300.98 11363301.14 0.0517 0.0111

Moon 26400-02-19 08:38 G 11363510.75 11363510.86 11363510.96 0.2676 0.0960

Earth 26400-02-19 09:07 G 11363510.77 11363510.88 11363510.99 0.2671 0.0976 *

Saturn 26401-02-05 21:07 G 11363863.28 11363863.38 11363863.49 0.0267 0.0176

Saturn 26401-05-05 08:38 G 11363951.73 11363951.86 11363952.00 0.0267 0.0081

Saturn 26401-08-01 20:38 G 11364040.21 11364040.36 11364040.50 0.0267 0.0018

Saturn 26401-10-29 08:38 G 11364128.73 11364128.86 11364128.99 0.0267 0.0115

Saturn 26402-01-25 20:38 G 11364217.28 11364217.36 11364217.45 0.0267 0.0216

Jupiter 26404-12-12 21:36 G 11365269.29 11365269.40 11365269.51 0.0513 0.0304

Jupiter 26405-03-12 05:31 G 11365358.62 11365358.73 11365358.85 0.0509 0.0280

Mars 26407-05-16 10:33 G 11366153.85 11366153.94 11366154.02 0.1690 0.1292

Neptune 26409-03-11 15:50 G 11366819.16 11366819.16 11366819.21 0.0089 0.0088

Neptune 26409-06-07 19:12 G 11366907.22 11366907.30 11366907.39 0.0089 0.0078

Neptune 26409-09-03 21:50 G 11366995.32 11366995.41 11366995.54 0.0089 0.0069

Neptune 26409-12-01 01:12 G 11367083.42 11367083.55 11367083.68 0.0089 0.0059

Neptune 26410-02-27 03:50 G 11367171.52 11367171.66 11367171.81 0.0089 0.0050

Neptune 26410-05-26 06:43 G 11367259.63 11367259.78 11367259.95 0.0089 0.0041

Neptune 26410-08-22 09:50 G 11367347.74 11367347.91 11367348.07 0.0089 0.0031

Neptune 26410-11-18 12:29 G 11367435.86 11367436.02 11367436.20 0.0089 0.0022

Neptune 26411-02-14 15:21 G 11367523.97 11367524.14 11367524.32 0.0089 0.0013

Jupiter 26411-05-12 09:36 G 11367610.73 11367610.90 11367611.06 0.0515 0.0091

Neptune 26411-05-13 18:14 G 11367612.09 11367612.26 11367612.44 0.0089 0.0004

Neptune 26411-08-09 21:07 G 11367700.21 11367700.38 11367700.56 0.0089 0.0006

Neptune 26411-11-05 23:45 G 11367788.33 11367788.49 11367788.67 0.0089 0.0015

Neptune 26412-02-02 02:38 G 11367876.45 11367876.61 11367876.78 0.0089 0.0024

Neptune 26412-04-30 05:17 G 11367964.57 11367964.72 11367964.89 0.0089 0.0033

Neptune 26412-07-27 08:09 G 11368052.69 11368052.84 11368053.00 0.0089 0.0042

Neptune 26412-10-23 10:48 G 11368140.82 11368140.95 11368141.10 0.0089 0.0051

Neptune 26413-01-19 13:26 G 11368228.95 11368229.06 11368229.20 0.0089 0.0060

Moon 26413-02-21 04:05 G 11368261.63 11368261.67 11368261.71 0.2677 0.2481

Earth 26413-02-21 04:05 G 11368261.64 11368261.67 11368261.71 0.2671 0.2518 *

Neptune 26413-04-17 16:05 G 11368317.08 11368317.17 11368317.29 0.0089 0.0070

Neptune 26413-07-14 18:43 G 11368405.22 11368405.28 11368405.38 0.0089 0.0079

Neptune 26413-10-10 21:21 G 11368493.38 11368493.39 11368493.45 0.0089 0.0088

Saturn 26415-12-10 19:41 G 11369284.17 11369284.32 11369284.47 0.0294 0.0137

Saturn 26416-03-08 16:19 G 11369373.01 11369373.18 11369373.35 0.0294 0.0020

Saturn 26416-06-05 12:29 G 11369461.89 11369462.02 11369462.15 0.0294 0.0173

Jupiter 26416-10-01 01:12 G 11369579.49 11369579.55 11369579.61 0.0514 0.0452

Mars 26416-10-05 18:43 G 11369584.15 11369584.28 11369584.40 0.1696 0.0418

Jupiter 26416-12-29 08:53 G 11369668.74 11369668.87 11369669.00 0.0511 0.0132

Venus 26417-05-25 18:14 G 11369816.16 11369816.26 11369816.36 0.3692 0.2313

Venus 26418-12-06 20:24 G 11370376.30 11370376.35 11370376.40 0.3680 0.3289

Uranus 26419-03-01 15:07 G 11370461.10 11370461.13 11370461.19 0.0145 0.0136

Uranus 26419-05-28 19:41 G 11370549.24 11370549.32 11370549.41 0.0145 0.0114

Uranus 26419-08-25 00:00 G 11370637.40 11370637.50 11370637.62 0.0145 0.0092

Uranus 26419-11-21 04:33 G 11370725.57 11370725.69 11370725.82 0.0145 0.0070

Moon 26420-02-14 23:45 G 11370811.41 11370811.49 11370811.57 0.2666 0.1833

Earth 26420-02-15 00:29 G 11370811.43 11370811.52 11370811.61 0.2670 0.1707 *

Uranus 26420-02-17 09:07 G 11370813.75 11370813.88 11370814.02 0.0145 0.0047

Uranus 26420-05-15 13:41 G 11370901.93 11370902.07 11370902.22 0.0145 0.0025

Uranus 26420-08-11 18:29 G 11370990.12 11370990.27 11370990.41 0.0145 0.0004

Uranus 26420-11-07 23:02 G 11371078.31 11371078.46 11371078.60 0.0145 0.0021

Uranus 26421-02-04 03:36 G 11371166.51 11371166.65 11371166.79 0.0145 0.0045

Uranus 26421-05-03 08:09 G 11371254.72 11371254.84 11371254.98 0.0145 0.0068

Uranus 26421-07-30 13:12 G 11371342.93 11371343.05 11371343.16 0.0145 0.0091

Uranus 26421-10-26 17:45 G 11371431.16 11371431.24 11371431.33 0.0145 0.0115

Uranus 26422-01-22 22:33 G 11371519.41 11371519.44 11371519.49 0.0145 0.0139

Venus 26422-12-09 16:19 G 11371840.06 11371840.18 11371840.31 0.3692 0.0055

Jupiter 26423-02-28 07:41 G 11371920.68 11371920.82 11371920.97 0.0514 0.0287

Jupiter 26423-05-29 10:48 G 11372010.89 11372010.95 11372011.01 0.0518 0.0478

Venus 26424-06-21 15:36 G 11372400.04 11372400.15 11372400.25 0.3679 0.1485

Mars 26425-05-05 21:50 G 11372718.28 11372718.41 11372718.55 0.1842 0.0560

Mars 26426-02-26 02:53 G 11373014.49 11373014.62 11373014.74 0.1703 0.0459

Venus 26428-06-24 13:55 G 11373863.98 11373864.08 11373864.18 0.3693 0.2243

Jupiter 26428-10-17 12:43 G 11373978.89 11373979.03 11373979.17 0.0512 0.0013

Venus 26430-01-05 11:02 G 11374423.84 11374423.96 11374424.07 0.3678 0.0411

Saturn 26430-06-26 00:14 G 11374595.42 11374595.51 11374595.61 0.0266 0.0195

Moon 26430-08-17 16:33 G 11374648.06 11374648.19 11374648.33 0.2660 0.0792

Earth 26430-08-17 18:00 G 11374648.11 11374648.25 11374648.39 0.2661 0.0664 *

Saturn 26430-09-22 12:00 G 11374683.87 11374684.00 11374684.13 0.0266 0.0101

Saturn 26430-12-19 23:45 G 11374772.35 11374772.49 11374772.63 0.0266 0.0005

Saturn 26431-03-18 11:31 G 11374860.85 11374860.98 11374861.12 0.0266 0.0095

Saturn 26431-06-14 23:45 G 11374949.40 11374949.49 11374949.59 0.0266 0.0194

Moon 26433-02-16 18:29 G 11375562.15 11375562.27 11375562.38 0.2671 0.0267

Earth 26433-02-16 19:12 G 11375562.19 11375562.30 11375562.42 0.2670 0.0226 *

Pluto 26433-10-30 11:31 G 11375817.98 11375817.98 11375817.99 0.0070 0.0069

Pluto 26434-01-26 12:00 G 11375905.95 11375906.00 11375906.07 0.0070 0.0060

Pluto 26434-04-24 12:29 G 11375993.94 11375994.02 11375994.12 0.0070 0.0051

Pluto 26434-07-21 13:12 G 11376081.95 11376082.05 11376082.16 0.0070 0.0041

Mars 26434-09-26 00:43 G 11376148.40 11376148.53 11376148.66 0.1834 0.0802

Pluto 26434-10-17 13:41 G 11376169.96 11376170.07 11376170.20 0.0070 0.0032

Jupiter 26434-12-17 05:45 G 11376230.69 11376230.74 11376230.79 0.0514 0.0487

Pluto 26435-01-13 14:24 G 11376257.98 11376258.10 11376258.23 0.0070 0.0022

Jupiter 26435-03-17 09:21 G 11376320.75 11376320.89 11376321.03 0.0517 0.0284

Pluto 26435-04-11 15:07 G 11376346.00 11376346.13 11376346.26 0.0070 0.0012

Pluto 26435-07-08 15:36 G 11376434.02 11376434.15 11376434.28 0.0070 0.0003

Mars 26435-07-19 11:02 G 11376444.88 11376444.96 11376445.04 0.1711 0.1332

Venus 26435-07-22 06:43 G 11376447.69 11376447.78 11376447.87 0.3678 0.2343

Pluto 26435-10-04 16:05 G 11376522.04 11376522.17 11376522.30 0.0070 0.0008

Pluto 26435-12-31 16:33 G 11376610.07 11376610.19 11376610.33 0.0071 0.0018

Pluto 26436-03-28 17:17 G 11376698.10 11376698.22 11376698.34 0.0071 0.0027

Pluto 26436-06-24 18:00 G 11376786.14 11376786.25 11376786.36 0.0071 0.0037

Pluto 26436-09-20 18:29 G 11376874.18 11376874.27 11376874.37 0.0071 0.0047

Pluto 26436-12-17 18:57 G 11376962.22 11376962.29 11376962.38 0.0071 0.0057

Pluto 26437-03-15 19:41 G 11377050.29 11377050.32 11377050.36 0.0071 0.0067

Jupiter 26440-08-05 16:33 G 11378289.06 11378289.19 11378289.32 0.0512 0.0154

Jupiter 26440-11-03 00:43 G 11378378.46 11378378.53 11378378.60 0.0509 0.0434

Moon 26443-08-20 19:41 G 11379399.20 11379399.32 11379399.44 0.2663 0.1480

Earth 26443-08-20 20:53 G 11379399.26 11379399.37 11379399.48 0.2661 0.1734 *

Saturn 26445-04-28 18:29 G 11380016.15 11380016.27 11380016.41 0.0294 0.0185

Saturn 26445-07-26 15:21 G 11380104.98 11380105.14 11380105.31 0.0293 0.0028

Saturn 26445-10-23 11:45 G 11380193.84 11380193.99 11380194.14 0.0293 0.0126

Saturn 26446-01-20 07:26 G 11380282.76 11380282.81 11380282.86 0.0293 0.0276

Moon 26446-02-19 13:41 G 11380312.96 11380313.07 11380313.17 0.2676 0.1156

Earth 26446-02-19 14:09 G 11380312.99 11380313.09 11380313.19 0.2671 0.1295 *

Mars 26446-11-14 10:33 G 11380580.87 11380580.94 11380581.01 0.1690 0.1415

Jupiter 26447-01-03 08:38 G 11380630.70 11380630.86 11380631.03 0.0517 0.0100

Jupiter 26452-05-24 19:55 G 11382599.23 11382599.33 11382599.44 0.0513 0.0303

Jupiter 26452-08-22 03:50 G 11382688.55 11382688.66 11382688.78 0.0509 0.0281

Mars 26456-04-05 18:43 G 11384011.16 11384011.28 11384011.41 0.1696 0.0546

Jupiter 26458-10-22 07:26 G 11384940.65 11384940.81 11384940.98 0.0516 0.0090

Saturn 26459-11-13 02:24 G 11385327.54 11385327.60 11385327.68 0.0267 0.0225

Saturn 26460-02-09 14:09 G 11385415.97 11385416.09 11385416.21 0.0267 0.0130

Saturn 26460-05-08 01:55 G 11385504.43 11385504.58 11385504.72 0.0267 0.0035

Saturn 26460-08-04 13:41 G 11385592.93 11385593.07 11385593.21 0.0267 0.0064

Uranus 26460-09-26 20:24 G 11385646.33 11385646.35 11385646.40 0.0134 0.0131

Saturn 26460-11-01 01:41 G 11385681.46 11385681.57 11385681.69 0.0267 0.0164

Uranus 26460-12-24 02:09 G 11385734.50 11385734.59 11385734.70 0.0133 0.0109

Saturn 26461-01-28 14:09 G 11385770.08 11385770.09 11385770.11 0.0267 0.0265

Uranus 26461-03-22 07:41 G 11385822.70 11385822.82 11385822.96 0.0133 0.0088

Uranus 26461-06-18 13:12 G 11385910.91 11385911.05 11385911.21 0.0133 0.0066

Uranus 26461-09-14 18:43 G 11385999.12 11385999.28 11385999.44 0.0133 0.0045

Uranus 26461-12-12 00:14 G 11386087.34 11386087.51 11386087.68 0.0133 0.0024

Uranus 26462-03-10 05:31 G 11386175.56 11386175.73 11386175.90 0.0133 0.0004

Uranus 26462-06-06 10:48 G 11386263.78 11386263.95 11386264.12 0.0133 0.0017

Uranus 26462-09-02 16:05 G 11386352.01 11386352.17 11386352.33 0.0133 0.0038

Uranus 26462-11-29 21:07 G 11386440.24 11386440.38 11386440.54 0.0133 0.0058

Uranus 26463-02-26 02:24 G 11386528.47 11386528.60 11386528.74 0.0133 0.0078

Uranus 26463-05-25 07:26 G 11386616.71 11386616.81 11386616.93 0.0133 0.0098

Earth 26463-08-15 21:07 G 11386699.36 11386699.38 11386699.39 0.2662 0.2640

Uranus 26463-08-21 12:14 G 11386704.95 11386705.01 11386705.10 0.0133 0.0119

Jupiter 26464-03-12 23:31 G 11386909.42 11386909.48 11386909.55 0.0514 0.0450

Jupiter 26464-06-10 07:12 G 11386998.67 11386998.80 11386998.94 0.0510 0.0133

Mars 26464-11-03 22:19 G 11387145.30 11387145.43 11387145.56 0.1843 0.0737

Mars 26465-08-27 02:53 G 11387441.50 11387441.62 11387441.75 0.1703 0.0339

Moon 26466-02-15 04:48 G 11387613.60 11387613.70 11387613.79 0.2666 0.1465

Earth 26466-02-15 05:17 G 11387613.63 11387613.72 11387613.82 0.2670 0.1408 *

Jupiter 26470-08-10 05:31 G 11389250.59 11389250.73 11389250.87 0.0515 0.0289

Jupiter 26470-11-08 08:38 G 11389340.80 11389340.86 11389340.92 0.0518 0.0477

Venus 26473-12-30 17:31 G 11390489.12 11390489.23 11390489.34 0.3692 0.1527

Mars 26474-03-27 00:57 G 11390575.40 11390575.54 11390575.67 0.1834 0.0646

Saturn 26474-09-15 20:24 G 11390748.23 11390748.35 11390748.46 0.0294 0.0216

Saturn 26474-12-13 17:17 G 11390837.05 11390837.22 11390837.38 0.0294 0.0057

Mars 26475-01-17 11:17 G 11390871.88 11390871.97 11390872.06 0.1710 0.1212

Saturn 26475-03-12 13:41 G 11390925.91 11390926.07 11390926.23 0.0294 0.0098

Saturn 26475-06-09 09:21 G 11391014.81 11391014.89 11391014.98 0.0294 0.0249

Venus 26475-07-13 18:43 G 11391049.20 11391049.28 11391049.36 0.3679 0.2692

Jupiter 26476-03-29 10:33 G 11391308.81 11391308.94 11391309.08 0.0512 0.0022

Moon 26476-08-17 22:48 G 11391450.30 11391450.45 11391450.59 0.2662 0.0380

Earth 26476-08-18 00:14 G 11391450.36 11391450.51 11391450.65 0.2661 0.0170 *

Moon 26479-02-17 23:31 G 11392364.36 11392364.48 11392364.59 0.2672 0.0082

Earth 26479-02-18 00:14 G 11392364.39 11392364.51 11392364.62 0.2670 0.0099 *

Venus 26479-07-16 15:21 G 11392513.02 11392513.14 11392513.26 0.3692 0.0769

Venus 26481-01-26 13:55 G 11393072.97 11393073.08 11393073.20 0.3679 0.0870

Jupiter 26482-05-29 03:50 G 11393560.61 11393560.66 11393560.71 0.0513 0.0485

Jupiter 26482-08-27 07:26 G 11393650.67 11393650.81 11393650.95 0.0517 0.0285

Venus 26485-01-29 12:57 G 11394536.97 11394537.04 11394537.11 0.3693 0.2966

Mars 26486-05-15 10:48 G 11395007.90 11395007.95 11395008.00 0.1689 0.1542

Venus 26486-08-12 09:21 G 11395096.78 11395096.89 11395097.01 0.3678 0.1041

Jupiter 26488-01-16 14:24 G 11395618.97 11395619.10 11395619.23 0.0513 0.0163

Jupiter 26488-04-14 22:33 G 11395708.37 11395708.44 11395708.52 0.0509 0.0427

Saturn 26489-04-01 06:00 G 11396059.70 11396059.75 11396059.81 0.0266 0.0243

Saturn 26489-06-28 17:31 G 11396148.11 11396148.23 11396148.34 0.0266 0.0149

Moon 26489-08-21 01:55 G 11396201.49 11396201.58 11396201.66 0.2664 0.2149

Earth 26489-08-21 02:53 G 11396201.54 11396201.62 11396201.70 0.2661 0.2205 *

Saturn 26489-09-25 05:02 G 11396236.57 11396236.71 11396236.85 0.0266 0.0054

Neptune 26489-12-20 08:09 G 11396322.83 11396322.84 11396322.87 0.0088 0.0087

Saturn 26489-12-22 16:48 G 11396325.06 11396325.20 11396325.35 0.0266 0.0044

Neptune 26490-03-18 09:50 G 11396410.86 11396410.91 11396410.97 0.0088 0.0079

Saturn 26490-03-21 04:48 G 11396413.59 11396413.70 11396413.83 0.0266 0.0143

Neptune 26490-06-14 11:17 G 11396498.90 11396498.97 11396499.06 0.0088 0.0073

Saturn 26490-06-17 17:17 G 11396502.16 11396502.22 11396502.28 0.0266 0.0243

Neptune 26490-09-10 12:43 G 11396586.95 11396587.03 11396587.14 0.0088 0.0066

Neptune 26490-12-07 14:24 G 11396675.01 11396675.10 11396675.22 0.0088 0.0058

Neptune 26491-03-05 16:05 G 11396763.06 11396763.17 11396763.29 0.0088 0.0051

Neptune 26491-06-01 17:45 G 11396851.12 11396851.24 11396851.37 0.0088 0.0044

Neptune 26491-08-28 19:12 G 11396939.18 11396939.30 11396939.44 0.0088 0.0037

Neptune 26491-11-24 20:53 G 11397027.24 11397027.37 11397027.51 0.0088 0.0029

Moon 26492-02-20 18:43 G 11397115.18 11397115.28 11397115.37 0.2676 0.1614

Earth 26492-02-20 19:12 G 11397115.20 11397115.30 11397115.39 0.2670 0.1612 *

Neptune 26492-02-20 22:33 G 11397115.30 11397115.44 11397115.58 0.0088 0.0022 *

Venus 26492-02-26 05:17 G 11397120.65 11397120.72 11397120.79 0.3677 0.3017

Neptune 26492-05-19 00:14 G 11397203.37 11397203.51 11397203.65 0.0088 0.0015

Neptune 26492-08-15 01:55 G 11397291.43 11397291.58 11397291.72 0.0088 0.0008

Neptune 26492-11-11 03:21 G 11397379.50 11397379.64 11397379.79 0.0088 0.0002

Neptune 26493-02-07 05:02 G 11397467.57 11397467.71 11397467.86 0.0088 0.0007

Neptune 26493-05-06 06:43 G 11397555.64 11397555.78 11397555.92 0.0088 0.0015

Neptune 26493-08-02 08:09 G 11397643.71 11397643.84 11397643.99 0.0088 0.0023

Neptune 26493-10-29 10:05 G 11397731.78 11397731.92 11397732.05 0.0088 0.0029

Neptune 26494-01-25 11:31 G 11397819.86 11397819.98 11397820.12 0.0088 0.0037

Neptune 26494-04-23 13:12 G 11397907.93 11397908.05 11397908.18 0.0088 0.0044

Jupiter 26494-06-15 05:45 G 11397960.58 11397960.74 11397960.91 0.0516 0.0089

Neptune 26494-07-20 14:38 G 11397996.01 11397996.11 11397996.24 0.0088 0.0053

Neptune 26494-10-16 16:33 G 11398084.09 11398084.19 11398084.30 0.0088 0.0059

Neptune 26495-01-12 18:29 G 11398172.17 11398172.27 11398172.36 0.0088 0.0067

Neptune 26495-04-10 19:55 G 11398260.26 11398260.33 11398260.41 0.0088 0.0074

Neptune 26495-07-07 21:21 G 11398348.36 11398348.39 11398348.46 0.0088 0.0082

Mars 26495-10-05 18:57 G 11398438.17 11398438.29 11398438.41 0.1696 0.0664

Moon 26499-02-13 15:21 G 11399665.12 11399665.14 11399665.15 0.2664 0.2628

Earth 26499-02-13 15:36 G 11399665.12 11399665.15 11399665.18 0.2670 0.2556 *

Jupiter 26499-11-04 18:29 G 11399929.16 11399929.27 11399929.37 0.0513 0.0303

Jupiter 26500-02-02 02:24 G 11400018.49 11400018.60 11400018.71 0.0510 0.0283

Uranus 26503-03-22 22:33 G 11401162.39 11401162.44 11401162.51 0.0145 0.0130

Uranus 26503-06-19 03:07 G 11401250.54 11401250.63 11401250.73 0.0145 0.0108

Uranus 26503-09-15 07:26 G 11401338.70 11401338.81 11401338.93 0.0145 0.0086

Uranus 26503-12-12 12:00 G 11401426.87 11401427.00 11401427.13 0.0145 0.0063

Saturn 26504-02-03 19:12 G 11401480.23 11401480.30 11401480.37 0.0294 0.0265

Uranus 26504-03-09 16:33 G 11401515.05 11401515.19 11401515.33 0.0145 0.0041

Saturn 26504-05-02 16:19 G 11401569.02 11401569.18 11401569.34 0.0294 0.0105

Mars 26504-05-05 22:33 G 11401572.32 11401572.44 11401572.57 0.1842 0.0879

Uranus 26504-06-05 21:07 G 11401603.24 11401603.38 11401603.53 0.0145 0.0018

Saturn 26504-07-30 12:57 G 11401657.87 11401658.04 11401658.20 0.0294 0.0051

Uranus 26504-09-02 01:41 G 11401691.43 11401691.57 11401691.72 0.0145 0.0005

Saturn 26504-10-27 08:53 G 11401746.75 11401746.87 11401746.99 0.0293 0.0203

Uranus 26504-11-29 06:14 G 11401779.62 11401779.76 11401779.91 0.0145 0.0028

Uranus 26505-02-25 11:02 G 11401867.82 11401867.96 11401868.10 0.0145 0.0051

Mars 26505-02-26 03:07 G 11401868.50 11401868.63 11401868.76 0.1703 0.0212

Uranus 26505-05-24 15:36 G 11401956.03 11401956.15 11401956.28 0.0145 0.0074

Uranus 26505-08-20 20:09 G 11402044.25 11402044.34 11402044.46 0.0145 0.0098

Uranus 26505-11-17 01:12 G 11402132.47 11402132.55 11402132.63 0.0145 0.0121

Uranus 26506-02-13 06:00 G 11402220.75 11402220.75 11402220.76 0.0145 0.0145

Jupiter 26506-04-04 04:48 G 11402270.54 11402270.70 11402270.87 0.0516 0.0098

Moon 26509-08-17 01:55 G 11403501.51 11403501.58 11403501.66 0.2658 0.2232

Earth 26509-08-17 03:07 G 11403501.55 11403501.63 11403501.72 0.2661 0.2141 *

Jupiter 26511-08-24 22:05 G 11404239.36 11404239.42 11404239.48 0.0514 0.0448

Jupiter 26511-11-22 05:45 G 11404328.61 11404328.74 11404328.87 0.0510 0.0134

Moon 26512-02-17 09:36 G 11404415.80 11404415.90 11404416.01 0.2667 0.1202

Earth 26512-02-17 10:19 G 11404415.83 11404415.93 11404416.04 0.2670 0.1096 *

Mars 26513-09-26 01:12 G 11405002.42 11405002.55 11405002.69 0.1834 0.0486

Mars 26514-07-19 11:31 G 11405298.88 11405298.98 11405299.07 0.1710 0.1085

Jupiter 26518-01-21 03:36 G 11406580.51 11406580.65 11406580.79 0.0515 0.0288

Jupiter 26518-04-21 06:43 G 11406670.73 11406670.78 11406670.85 0.0518 0.0480

Saturn 26518-11-16 19:26 G 11406880.20 11406880.31 11406880.41 0.0267 0.0181

Saturn 26519-02-13 06:57 G 11406968.65 11406968.79 11406968.92 0.0267 0.0086

Saturn 26519-05-12 18:43 G 11407057.14 11407057.28 11407057.42 0.0267 0.0011

Saturn 26519-08-09 06:43 G 11407145.65 11407145.78 11407145.91 0.0267 0.0110

Saturn 26519-11-05 18:43 G 11407234.20 11407234.28 11407234.38 0.0267 0.0210

Pluto 26520-03-07 12:57 G 11407356.93 11407357.04 11407357.18 0.0074 0.0057

Pluto 26520-06-03 15:21 G 11407444.99 11407445.14 11407445.33 0.0074 0.0040

Pluto 26520-08-30 18:14 G 11407533.08 11407533.26 11407533.46 0.0074 0.0022

Pluto 26520-11-26 20:53 G 11407621.18 11407621.37 11407621.57 0.0073 0.0006

Pluto 26521-02-22 23:31 G 11407709.28 11407709.48 11407709.68 0.0073 0.0012

Pluto 26521-05-22 01:55 G 11407797.40 11407797.58 11407797.77 0.0073 0.0028

Pluto 26521-08-18 04:05 G 11407885.53 11407885.67 11407885.85 0.0073 0.0045

Pluto 26521-11-14 06:57 G 11407973.69 11407973.79 11407973.90 0.0073 0.0061

Moon 26522-08-20 04:48 G 11408252.56 11408252.70 11408252.85 0.2662 0.0143

Earth 26522-08-20 06:14 G 11408252.62 11408252.76 11408252.91 0.2661 0.0321 *

Jupiter 26523-09-10 09:21 G 11408638.75 11408638.89 11408639.02 0.0511 0.0018

Venus 26525-01-21 18:29 G 11409138.20 11409138.27 11409138.33 0.3691 0.3153

Moon 26525-02-19 04:19 G 11409166.57 11409166.68 11409166.80 0.2673 0.0337

Earth 26525-02-19 05:02 G 11409166.60 11409166.71 11409166.83 0.2670 0.0407 *

Mars 26525-11-14 10:48 G 11409434.94 11409434.95 11409434.97 0.1689 0.1671

Jupiter 26529-11-09 01:41 G 11410890.52 11410890.57 11410890.62 0.0514 0.0486

Jupiter 26530-02-07 05:17 G 11410980.59 11410980.72 11410980.86 0.0517 0.0286

Venus 26530-08-07 16:33 G 11411162.07 11411162.19 11411162.32 0.3692 0.0771

Venus 26532-02-18 17:17 G 11411722.12 11411722.22 11411722.31 0.3679 0.2088

Saturn 26533-09-19 17:31 G 11412301.08 11412301.23 11412301.38 0.0294 0.0140

Saturn 26533-12-17 14:09 G 11412389.93 11412390.09 11412390.26 0.0294 0.0020

Saturn 26534-03-16 10:19 G 11412478.80 11412478.93 11412479.07 0.0294 0.0172

Mars 26535-04-06 18:57 G 11412865.18 11412865.29 11412865.41 0.1696 0.0786

Jupiter 26535-06-29 12:29 G 11412948.90 11412949.02 11412949.15 0.0513 0.0167

Moon 26535-08-23 08:09 G 11413003.80 11413003.84 11413003.88 0.2666 0.2526

Jupiter 26535-09-26 20:38 G 11413038.29 11413038.36 11413038.44 0.0509 0.0423

Venus 26536-02-21 14:24 G 11413185.99 11413186.10 11413186.22 0.3693 0.1519

Venus 26537-09-03 12:29 G 11413745.90 11413746.02 11413746.14 0.3678 0.0233

Moon 26538-02-21 23:45 G 11413917.41 11413917.49 11413917.57 0.2676 0.1831

Earth 26538-02-22 00:00 G 11413917.42 11413917.50 11413917.58 0.2670 0.1928 *

Venus 26541-09-06 12:00 G 11415209.99 11415210.00 11415210.00 0.3693 0.3688

Jupiter 26541-11-26 04:05 G 11415290.50 11415290.67 11415290.84 0.0516 0.0093

Venus 26543-03-20 08:09 G 11415769.73 11415769.84 11415769.94 0.3678 0.1702

Mars 26543-11-04 23:02 G 11415999.34 11415999.46 11415999.58 0.1843 0.1052

Mars 26544-08-27 03:07 G 11416295.50 11416295.63 11416295.76 0.1703 0.0098

Uranus 26544-10-18 03:07 G 11416347.59 11416347.63 11416347.70 0.0133 0.0127

Uranus 26545-01-14 08:53 G 11416435.77 11416435.87 11416435.98 0.0133 0.0105

Moon 26545-02-14 20:09 G 11416467.28 11416467.34 11416467.40 0.2664 0.2261

Earth 26545-02-14 20:38 G 11416467.30 11416467.36 11416467.42 0.2670 0.2255 *

Uranus 26545-04-12 14:24 G 11416523.97 11416524.10 11416524.24 0.0133 0.0083

Uranus 26545-07-09 19:55 G 11416612.18 11416612.33 11416612.48 0.0133 0.0062

Uranus 26545-10-06 01:12 G 11416700.40 11416700.55 11416700.72 0.0133 0.0042

Uranus 26546-01-02 06:43 G 11416788.62 11416788.78 11416788.95 0.0133 0.0020

Uranus 26546-03-31 12:14 G 11416876.84 11416877.01 11416877.18 0.0133 0.0003

Uranus 26546-06-27 17:31 G 11416965.06 11416965.23 11416965.39 0.0133 0.0021

Uranus 26546-09-23 22:48 G 11417053.29 11417053.45 11417053.61 0.0133 0.0042

Uranus 26546-12-21 03:36 G 11417141.51 11417141.65 11417141.81 0.0133 0.0063

Uranus 26547-03-19 08:53 G 11417229.75 11417229.87 11417230.01 0.0133 0.0082

Jupiter 26547-04-17 16:19 G 11417259.08 11417259.18 11417259.29 0.0514 0.0310

Uranus 26547-06-15 13:55 G 11417317.99 11417318.08 11417318.20 0.0133 0.0102

Jupiter 26547-07-16 00:29 G 11417348.40 11417348.52 11417348.63 0.0510 0.0277

Uranus 26547-09-11 19:12 G 11417406.24 11417406.30 11417406.37 0.0133 0.0122

Saturn 26548-04-04 22:33 G 11417612.35 11417612.44 11417612.54 0.0266 0.0200

Saturn 26548-07-02 10:05 G 11417700.79 11417700.92 11417701.05 0.0266 0.0106

Saturn 26548-09-28 21:50 G 11417789.27 11417789.41 11417789.55 0.0266 0.0010

Saturn 26548-12-26 09:50 G 11417877.77 11417877.91 11417878.04 0.0266 0.0088

Saturn 26549-03-24 21:50 G 11417966.31 11417966.41 11417966.51 0.0266 0.0188

Mars 26553-03-27 01:41 G 11419429.43 11419429.57 11419429.71 0.1834 0.0315

Jupiter 26553-09-14 02:24 G 11419600.43 11419600.60 11419600.76 0.0515 0.0106

Mars 26554-01-17 11:31 G 11419725.87 11419725.98 11419726.08 0.1710 0.0971

Moon 26555-08-18 07:55 G 11420303.73 11420303.83 11420303.94 0.2659 0.1894

Earth 26555-08-18 09:21 G 11420303.77 11420303.89 11420304.00 0.2662 0.1646 *

Moon 26558-02-17 14:38 G 11421218.00 11421218.11 11421218.22 0.2669 0.0906

Earth 26558-02-17 15:21 G 11421218.03 11421218.14 11421218.25 0.2670 0.0786 *

Jupiter 26559-02-03 20:24 G 11421569.29 11421569.35 11421569.42 0.0514 0.0449

Jupiter 26559-05-04 04:05 G 11421658.54 11421658.67 11421658.81 0.0511 0.0136

Mars 26562-08-17 04:05 G 11422859.62 11422859.67 11422859.72 0.1826 0.1703

Saturn 26563-02-06 16:19 G 11423033.06 11423033.18 11423033.31 0.0294 0.0189

Saturn 26563-05-06 13:12 G 11423121.89 11423122.05 11423122.22 0.0294 0.0031

Saturn 26563-08-03 09:36 G 11423210.75 11423210.90 11423211.05 0.0294 0.0124

Saturn 26563-10-31 05:17 G 11423299.67 11423299.72 11423299.78 0.0293 0.0275

Jupiter 26565-07-03 01:12 G 11423910.41 11423910.55 11423910.69 0.0515 0.0294

Jupiter 26565-10-01 04:19 G 11424000.62 11424000.68 11424000.75 0.0518 0.0473

Moon 26568-08-20 11:02 G 11425054.82 11425054.96 11425055.10 0.2662 0.0637

Earth 26568-08-20 12:29 G 11425054.88 11425055.02 11425055.16 0.2661 0.0801 *

Jupiter 26571-02-20 07:55 G 11425968.69 11425968.83 11425968.96 0.0511 0.0018

Moon 26571-02-20 09:21 G 11425968.78 11425968.89 11425969.00 0.2673 0.0590 *

Earth 26571-02-20 10:05 G 11425968.81 11425968.92 11425969.03 0.2670 0.0715 *

Neptune 26573-12-07 15:36 G 11426990.10 11426990.15 11426990.23 0.0089 0.0083

Neptune 26574-03-05 18:29 G 11427078.18 11427078.27 11427078.38 0.0089 0.0073

Neptune 26574-06-01 21:36 G 11427166.28 11427166.40 11427166.53 0.0089 0.0064

Neptune 26574-08-29 00:29 G 11427254.39 11427254.52 11427254.67 0.0089 0.0054

Mars 26574-10-05 19:12 G 11427292.19 11427292.30 11427292.41 0.1696 0.0919

Neptune 26574-11-25 03:07 G 11427342.49 11427342.63 11427342.80 0.0089 0.0045

Neptune 26575-02-21 06:14 G 11427430.60 11427430.76 11427430.93 0.0089 0.0035

Neptune 26575-05-20 09:07 G 11427518.72 11427518.88 11427519.05 0.0089 0.0026

Neptune 26575-08-16 12:00 G 11427606.83 11427607.00 11427607.18 0.0089 0.0017

Neptune 26575-11-12 14:53 G 11427694.95 11427695.12 11427695.30 0.0089 0.0008

Neptune 26576-02-08 17:45 G 11427783.07 11427783.24 11427783.42 0.0089 0.0002

Neptune 26576-05-06 20:38 G 11427871.18 11427871.36 11427871.53 0.0089 0.0011

Neptune 26576-08-02 23:17 G 11427959.31 11427959.47 11427959.65 0.0089 0.0020

Neptune 26576-10-30 02:09 G 11428047.43 11428047.59 11428047.76 0.0089 0.0029

Neptune 26577-01-26 04:48 G 11428135.55 11428135.70 11428135.86 0.0089 0.0038

Jupiter 26577-04-20 23:45 G 11428220.44 11428220.49 11428220.55 0.0514 0.0484

Neptune 26577-04-24 07:41 G 11428223.68 11428223.82 11428223.97 0.0089 0.0047

Jupiter 26577-07-20 03:36 G 11428310.51 11428310.65 11428310.79 0.0517 0.0290

Neptune 26577-07-21 10:19 G 11428311.80 11428311.93 11428312.07 0.0089 0.0056

Saturn 26577-08-23 00:14 G 11428344.45 11428344.51 11428344.58 0.0266 0.0233

Neptune 26577-10-17 12:57 G 11428399.94 11428400.04 11428400.17 0.0089 0.0066

Saturn 26577-11-19 11:45 G 11428432.87 11428432.99 11428433.11 0.0266 0.0140

Neptune 26578-01-13 15:50 G 11428488.07 11428488.16 11428488.26 0.0089 0.0074

Saturn 26578-02-15 23:17 G 11428521.33 11428521.47 11428521.61 0.0266 0.0045

Neptune 26578-04-11 18:29 G 11428576.22 11428576.27 11428576.34 0.0089 0.0083

Saturn 26578-05-15 11:17 G 11428609.83 11428609.97 11428610.11 0.0267 0.0054

Saturn 26578-08-11 23:17 G 11428698.35 11428698.47 11428698.59 0.0267 0.0153

Saturn 26578-11-08 11:31 G 11428786.94 11428786.98 11428787.02 0.0267 0.0253

Venus 26581-08-28 17:45 G 11429811.14 11429811.24 11429811.34 0.3691 0.2345

Jupiter 26582-12-09 11:31 G 11430278.85 11430278.98 11430279.11 0.0512 0.0157

Jupiter 26583-03-08 19:41 G 11430368.24 11430368.32 11430368.39 0.0509 0.0430

Venus 26583-03-11 20:38 G 11430371.31 11430371.36 11430371.41 0.3680 0.3269

Mars 26583-05-05 23:31 G 11430426.37 11430426.48 11430426.58 0.1843 0.1220

Moon 26584-02-23 05:02 G 11430719.65 11430719.71 11430719.76 0.2677 0.2276

Earth 26584-02-23 05:02 G 11430719.65 11430719.71 11430719.77 0.2670 0.2243 *

Mars 26584-02-26 03:21 G 11430722.51 11430722.64 11430722.77 0.1703 0.0046

Venus 26587-03-14 15:50 G 11431835.04 11431835.16 11431835.29 0.3692 0.0028

Uranus 26587-04-12 06:00 G 11431863.69 11431863.75 11431863.83 0.0145 0.0124

Uranus 26587-07-09 10:19 G 11431951.84 11431951.93 11431952.04 0.0145 0.0102

Uranus 26587-10-05 14:53 G 11432040.01 11432040.12 11432040.25 0.0145 0.0080

Uranus 26588-01-01 19:26 G 11432128.18 11432128.31 11432128.44 0.0145 0.0057

Uranus 26588-03-30 00:00 G 11432216.36 11432216.50 11432216.64 0.0145 0.0035

Uranus 26588-06-26 04:33 G 11432304.54 11432304.69 11432304.83 0.0145 0.0012

Uranus 26588-09-22 09:07 G 11432392.73 11432392.88 11432393.03 0.0145 0.0011

Venus 26588-09-24 15:36 G 11432395.05 11432395.15 11432395.26 0.3679 0.1466

Uranus 26588-12-19 13:41 G 11432480.93 11432481.07 11432481.21 0.0145 0.0034

Uranus 26589-03-17 18:14 G 11432569.13 11432569.26 11432569.40 0.0145 0.0057

Jupiter 26589-05-08 02:09 G 11432620.43 11432620.59 11432620.76 0.0516 0.0098

Uranus 26589-06-13 23:02 G 11432657.34 11432657.46 11432657.58 0.0145 0.0080

Uranus 26589-09-10 03:36 G 11432745.56 11432745.65 11432745.76 0.0145 0.0104

Uranus 26589-12-07 08:38 G 11432833.79 11432833.86 11432833.93 0.0145 0.0127

Moon 26591-02-16 01:12 G 11433269.48 11433269.55 11433269.62 0.2664 0.2068

Earth 26591-02-16 01:41 G 11433269.49 11433269.57 11433269.64 0.2670 0.1953 *

Saturn 26592-06-25 16:33 G 11433765.09 11433765.19 11433765.30 0.0294 0.0230

Saturn 26592-09-22 13:41 G 11433853.91 11433854.07 11433854.24 0.0294 0.0070

Mars 26592-09-25 02:09 G 11433856.45 11433856.59 11433856.73 0.1834 0.0149

Venus 26592-09-27 13:41 G 11433858.97 11433859.07 11433859.16 0.3693 0.2264

Saturn 26592-12-20 10:19 G 11433942.77 11433942.93 11433943.09 0.0294 0.0087

Saturn 26593-03-19 06:14 G 11434031.67 11434031.76 11434031.86 0.0294 0.0239

Mars 26593-07-18 11:31 G 11434152.87 11434152.98 11434153.09 0.1710 0.0844

Venus 26594-04-10 11:02 G 11434418.84 11434418.96 11434419.08 0.3678 0.0414

Jupiter 26594-09-27 14:38 G 11434589.01 11434589.11 11434589.22 0.0514 0.0310

Jupiter 26594-12-25 22:33 G 11434678.33 11434678.44 11434678.56 0.0510 0.0276

Venus 26599-10-25 06:43 G 11436442.69 11436442.78 11436442.87 0.3678 0.2371

Jupiter 26601-02-25 00:57 G 11436930.37 11436930.54 11436930.70 0.0515 0.0095

Moon 26601-08-19 13:55 G 11437105.95 11437106.08 11437106.21 0.2660 0.1242

Earth 26601-08-19 15:21 G 11437106.01 11437106.14 11437106.27 0.2662 0.1155 *

Mars 26602-02-16 04:33 G 11437286.61 11437286.69 11437286.77 0.1826 0.1527

Moon 26604-02-19 19:26 G 11438020.20 11438020.31 11438020.42 0.2670 0.0546

Earth 26604-02-19 20:09 G 11438020.23 11438020.34 11438020.46 0.2670 0.0486 *

Jupiter 26606-07-17 18:29 G 11438899.21 11438899.27 11438899.34 0.0515 0.0453

Jupiter 26606-10-15 02:24 G 11438988.47 11438988.60 11438988.73 0.0511 0.0132

Saturn 26607-01-11 03:21 G 11439076.61 11439076.64 11439076.69 0.0266 0.0253

Saturn 26607-04-09 14:53 G 11439165.01 11439165.12 11439165.24 0.0266 0.0160

Saturn 26607-07-07 02:38 G 11439253.47 11439253.61 11439253.74 0.0266 0.0065

Saturn 26607-10-03 14:24 G 11439341.95 11439342.10 11439342.24 0.0266 0.0033

Saturn 26607-12-31 02:09 G 11439430.47 11439430.59 11439430.72 0.0266 0.0131

Saturn 26608-03-28 14:24 G 11439519.03 11439519.10 11439519.17 0.0266 0.0231

Jupiter 26612-12-13 22:48 G 11441240.32 11441240.45 11441240.60 0.0514 0.0295

Jupiter 26613-03-14 02:09 G 11441330.53 11441330.59 11441330.66 0.0518 0.0471

Mars 26614-04-06 19:12 G 11441719.20 11441719.30 11441719.40 0.1696 0.1035

Moon 26614-08-22 17:17 G 11441857.09 11441857.22 11441857.35 0.2663 0.1072

Earth 26614-08-22 18:29 G 11441857.14 11441857.27 11441857.40 0.2661 0.1272 *

Moon 26617-02-21 14:24 G 11442770.99 11442771.10 11442771.21 0.2674 0.0944

Earth 26617-02-21 15:07 G 11442771.02 11442771.13 11442771.23 0.2670 0.1028 *

Jupiter 26618-08-03 06:14 G 11443298.63 11443298.76 11443298.90 0.0512 0.0012

Saturn 26621-11-13 15:21 G 11444497.10 11444497.14 11444497.19 0.0294 0.0281

Saturn 26622-02-10 12:29 G 11444585.87 11444586.02 11444586.18 0.0294 0.0120

Saturn 26622-05-10 09:21 G 11444674.72 11444674.89 11444675.06 0.0294 0.0038

Saturn 26622-08-07 05:31 G 11444763.60 11444763.73 11444763.85 0.0294 0.0191

Mars 26622-11-04 23:45 G 11444853.40 11444853.49 11444853.58 0.1843 0.1374

Mars 26623-08-28 03:21 G 11445149.52 11445149.64 11445149.77 0.1703 0.0173

Jupiter 26624-10-01 21:36 G 11445550.35 11445550.40 11445550.46 0.0514 0.0485

Jupiter 26624-12-31 01:26 G 11445640.42 11445640.56 11445640.70 0.0517 0.0287

Uranus 26628-11-08 10:05 G 11447048.86 11447048.92 11447048.99 0.0133 0.0122

Uranus 26629-02-04 15:21 G 11447137.04 11447137.14 11447137.27 0.0133 0.0101

Uranus 26629-05-03 20:53 G 11447225.25 11447225.37 11447225.52 0.0133 0.0080

Uranus 26629-07-31 02:38 G 11447313.46 11447313.61 11447313.77 0.0133 0.0058

Uranus 26629-10-27 08:09 G 11447401.68 11447401.84 11447402.00 0.0133 0.0037

Uranus 26630-01-23 13:26 G 11447489.90 11447490.06 11447490.23 0.0133 0.0016

Moon 26630-02-24 10:05 G 11447521.89 11447521.92 11447521.95 0.2677 0.2544

Earth 26630-02-24 10:05 G 11447521.89 11447521.92 11447521.95 0.2670 0.2566 *

Uranus 26630-04-21 18:57 G 11447578.12 11447578.29 11447578.46 0.0133 0.0006

Jupiter 26630-05-22 10:05 G 11447608.79 11447608.92 11447609.05 0.0512 0.0152

Uranus 26630-07-19 00:14 G 11447666.34 11447666.51 11447666.67 0.0133 0.0026

Jupiter 26630-08-19 18:14 G 11447698.19 11447698.26 11447698.33 0.0509 0.0436

Uranus 26630-10-15 05:17 G 11447754.57 11447754.72 11447754.88 0.0133 0.0046

Uranus 26631-01-11 10:33 G 11447842.80 11447842.94 11447843.09 0.0133 0.0066

Uranus 26631-04-09 15:36 G 11447931.03 11447931.15 11447931.28 0.0133 0.0086

Uranus 26631-07-06 20:38 G 11448019.27 11448019.36 11448019.47 0.0133 0.0107

Uranus 26631-10-03 01:41 G 11448107.53 11448107.57 11448107.64 0.0133 0.0126

Mars 26632-03-27 02:24 G 11448283.46 11448283.60 11448283.74 0.1835 0.0017

Mars 26633-01-17 11:45 G 11448579.87 11448579.99 11448580.11 0.1710 0.0721

Saturn 26636-08-26 16:19 G 11449897.09 11449897.18 11449897.28 0.0266 0.0195

Jupiter 26636-10-19 00:29 G 11449950.36 11449950.52 11449950.69 0.0516 0.0104

Saturn 26636-11-23 03:50 G 11449985.53 11449985.66 11449985.79 0.0266 0.0101

Moon 26637-02-17 06:00 G 11450071.66 11450071.75 11450071.84 0.2665 0.1658

Earth 26637-02-17 06:29 G 11450071.68 11450071.77 11450071.86 0.2670 0.1648 *

Saturn 26637-02-19 15:36 G 11450074.00 11450074.15 11450074.29 0.0266 0.0007

Saturn 26637-05-19 03:21 G 11450162.51 11450162.64 11450162.78 0.0266 0.0094

Saturn 26637-08-15 15:21 G 11450251.05 11450251.14 11450251.25 0.0266 0.0193

Venus 26638-04-05 17:02 G 11450484.10 11450484.21 11450484.32 0.3692 0.1552

Venus 26639-10-17 18:57 G 11451044.21 11451044.29 11451044.37 0.3679 0.2667

Mars 26641-08-17 05:02 G 11451713.61 11451713.71 11451713.80 0.1826 0.1356

Jupiter 26642-03-10 13:55 G 11451918.97 11451919.08 11451919.19 0.0513 0.0296

Jupiter 26642-06-07 21:50 G 11452008.30 11452008.41 11452008.52 0.0510 0.0289

Mars 26642-06-09 19:55 G 11452010.29 11452010.33 11452010.38 0.1717 0.1604

Venus 26643-10-20 14:53 G 11452508.00 11452508.12 11452508.25 0.3692 0.0784

Venus 26645-05-02 14:09 G 11453067.97 11453068.09 11453068.20 0.3679 0.0841

Moon 26647-08-20 20:09 G 11453908.20 11453908.34 11453908.48 0.2660 0.0935

Earth 26647-08-20 21:36 G 11453908.26 11453908.40 11453908.54 0.2662 0.0655 *

Jupiter 26648-08-06 23:17 G 11454260.31 11454260.47 11454260.64 0.0515 0.0088

Venus 26649-05-05 12:43 G 11454531.96 11454532.03 11454532.10 0.3693 0.2998

Moon 26650-02-20 00:29 G 11454822.40 11454822.52 11454822.63 0.2671 0.0351

Earth 26650-02-20 01:12 G 11454822.43 11454822.55 11454822.66 0.2670 0.0169 *

Venus 26650-11-16 09:36 G 11455091.78 11455091.90 11455092.01 0.3678 0.1063

Saturn 26651-06-30 12:00 G 11455317.86 11455318.00 11455318.14 0.0294 0.0167

Saturn 26651-09-27 08:53 G 11455406.71 11455406.87 11455407.04 0.0294 0.0011

Saturn 26651-12-25 05:17 G 11455495.58 11455495.72 11455495.87 0.0294 0.0149

Mars 26653-10-05 19:26 G 11456146.21 11456146.31 11456146.40 0.1696 0.1165

Jupiter 26653-12-27 17:02 G 11456229.15 11456229.21 11456229.27 0.0515 0.0451

Jupiter 26654-03-27 00:43 G 11456318.40 11456318.53 11456318.67 0.0511 0.0135

Neptune 26654-09-18 08:09 G 11456493.80 11456493.84 11456493.89 0.0088 0.0083

Neptune 26654-12-15 09:36 G 11456581.84 11456581.90 11456581.98 0.0088 0.0076

Neptune 26655-03-13 11:02 G 11456669.88 11456669.96 11456670.06 0.0088 0.0069

Neptune 26655-06-09 12:43 G 11456757.94 11456758.03 11456758.14 0.0088 0.0061

Neptune 26655-09-05 14:09 G 11456845.99 11456846.09 11456846.21 0.0088 0.0055

Neptune 26655-12-02 15:50 G 11456934.05 11456934.16 11456934.29 0.0088 0.0047

Neptune 26656-02-28 17:31 G 11457022.11 11457022.23 11457022.36 0.0088 0.0040

Neptune 26656-05-26 19:12 G 11457110.17 11457110.30 11457110.43 0.0088 0.0032

Venus 26656-06-01 05:17 G 11457115.66 11457115.72 11457115.79 0.3678 0.3046

Neptune 26656-08-22 20:38 G 11457198.23 11457198.36 11457198.50 0.0088 0.0026

Neptune 26656-11-18 22:19 G 11457286.29 11457286.43 11457286.57 0.0088 0.0018

Neptune 26657-02-15 00:00 G 11457374.36 11457374.50 11457374.64 0.0088 0.0011

Neptune 26657-05-14 01:41 G 11457462.43 11457462.57 11457462.71 0.0088 0.0003

Neptune 26657-08-10 03:21 G 11457550.49 11457550.64 11457550.78 0.0088 0.0005

Neptune 26657-11-06 04:48 G 11457638.56 11457638.70 11457638.85 0.0088 0.0012

Neptune 26658-02-02 06:29 G 11457726.63 11457726.77 11457726.91 0.0088 0.0019

Neptune 26658-05-01 08:09 G 11457814.70 11457814.84 11457814.98 0.0088 0.0026

Neptune 26658-07-28 09:50 G 11457902.78 11457902.91 11457903.04 0.0088 0.0034

Neptune 26658-10-24 11:17 G 11457990.85 11457990.97 11457991.11 0.0088 0.0041

Neptune 26659-01-20 12:57 G 11458078.93 11458079.04 11458079.17 0.0088 0.0049

Neptune 26659-04-18 14:38 G 11458167.01 11458167.11 11458167.23 0.0088 0.0056

Neptune 26659-07-15 16:19 G 11458255.09 11458255.18 11458255.29 0.0088 0.0063

Neptune 26659-10-11 17:45 G 11458343.17 11458343.24 11458343.34 0.0088 0.0072

Neptune 26660-01-07 19:41 G 11458431.26 11458431.32 11458431.39 0.0088 0.0078

Neptune 26660-04-04 21:07 G 11458519.37 11458519.38 11458519.43 0.0088 0.0086

Jupiter 26660-05-25 21:50 G 11458570.27 11458570.41 11458570.56 0.0514 0.0279

Moon 26660-08-22 23:31 G 11458659.37 11458659.48 11458659.59 0.2665 0.1694

Earth 26660-08-23 00:29 G 11458659.42 11458659.52 11458659.63 0.2661 0.1753 *

Jupiter 26660-08-24 01:12 G 11458660.50 11458660.55 11458660.60 0.0517 0.0486

Mars 26662-05-06 00:00 G 11459280.43 11459280.50 11459280.58 0.1843 0.1539

Moon 26663-02-22 19:26 G 11459573.21 11459573.31 11459573.41 0.2675 0.1298

Earth 26663-02-22 20:09 G 11459573.24 11459573.34 11459573.43 0.2670 0.1344 *

Mars 26663-02-26 03:36 G 11459576.52 11459576.65 11459576.78 0.1702 0.0283

Jupiter 26666-01-13 04:33 G 11460628.55 11460628.69 11460628.83 0.0512 0.0011

Saturn 26666-01-13 19:26 G 11460629.23 11460629.31 11460629.40 0.0266 0.0215

Saturn 26666-04-12 06:57 G 11460717.67 11460717.79 11460717.92 0.0266 0.0121

Saturn 26666-07-09 18:29 G 11460806.13 11460806.27 11460806.42 0.0266 0.0027

Saturn 26666-10-06 06:14 G 11460894.63 11460894.76 11460894.90 0.0266 0.0072

Saturn 26667-01-02 18:14 G 11460983.16 11460983.26 11460983.38 0.0266 0.0171

Uranus 26671-02-04 08:38 G 11462476.84 11462476.86 11462476.90 0.0145 0.0141

Uranus 26671-05-03 13:12 G 11462564.97 11462565.05 11462565.13 0.0145 0.0119

Uranus 26671-07-30 17:17 G 11462653.13 11462653.22 11462653.34 0.0145 0.0098

Mars 26671-09-26 02:53 G 11462710.48 11462710.62 11462710.76 0.1835 0.0183

Uranus 26671-10-26 22:05 G 11462741.30 11462741.42 11462741.54 0.0145 0.0075

Uranus 26672-01-23 02:24 G 11462829.47 11462829.60 11462829.74 0.0145 0.0053

Jupiter 26672-03-13 19:55 G 11462880.27 11462880.33 11462880.39 0.0513 0.0480

Uranus 26672-04-20 06:57 G 11462917.65 11462917.79 11462917.93 0.0145 0.0030

Jupiter 26672-06-11 23:31 G 11462970.35 11462970.48 11462970.62 0.0517 0.0292

Uranus 26672-07-17 11:31 G 11463005.84 11463005.98 11463006.13 0.0145 0.0008

Mars 26672-07-18 11:45 G 11463006.87 11463006.99 11463007.11 0.1710 0.0601

Uranus 26672-10-13 16:05 G 11463094.03 11463094.17 11463094.32 0.0145 0.0015

Uranus 26673-01-09 20:38 G 11463182.22 11463182.36 11463182.51 0.0145 0.0039

Uranus 26673-04-08 01:12 G 11463270.43 11463270.55 11463270.69 0.0145 0.0062

Uranus 26673-07-05 06:00 G 11463358.64 11463358.75 11463358.87 0.0145 0.0085

Uranus 26673-10-01 10:33 G 11463446.85 11463446.94 11463447.05 0.0145 0.0109

Uranus 26673-12-28 15:36 G 11463535.09 11463535.15 11463535.21 0.0145 0.0132

Jupiter 26677-11-01 08:38 G 11464938.73 11464938.86 11464938.99 0.0513 0.0150

Jupiter 26678-01-29 16:48 G 11465028.13 11465028.20 11465028.27 0.0510 0.0440

Saturn 26680-11-16 10:33 G 11466049.83 11466049.94 11466050.05 0.0294 0.0219

Saturn 26681-02-13 07:41 G 11466138.65 11466138.82 11466138.99 0.0294 0.0059

Mars 26681-02-15 05:17 G 11466140.61 11466140.72 11466140.82 0.1826 0.1209

Saturn 26681-05-13 04:05 G 11466227.52 11466227.67 11466227.83 0.0294 0.0099

Saturn 26681-08-10 00:14 G 11466316.43 11466316.51 11466316.60 0.0294 0.0250

Mars 26681-12-08 20:09 G 11466437.28 11466437.34 11466437.40 0.1717 0.1477

Pluto 26682-05-22 19:12 G 11466602.26 11466602.30 11466602.36 0.0070 0.0064

Pluto 26682-08-18 19:55 G 11466690.25 11466690.33 11466690.42 0.0070 0.0054

Pluto 26682-11-14 20:24 G 11466778.26 11466778.35 11466778.46 0.0070 0.0045

Pluto 26683-02-10 21:07 G 11466866.27 11466866.38 11466866.50 0.0070 0.0035

Moon 26683-02-18 10:48 G 11466873.86 11466873.95 11466874.04 0.2667 0.1488

Earth 26683-02-18 11:31 G 11466873.88 11466873.98 11466874.08 0.2670 0.1338 *

Pluto 26683-05-09 21:36 G 11466954.28 11466954.40 11466954.53 0.0070 0.0026

Pluto 26683-08-05 22:05 G 11467042.30 11467042.42 11467042.56 0.0070 0.0017

Pluto 26683-11-01 22:48 G 11467130.32 11467130.45 11467130.58 0.0070 0.0006

Pluto 26684-01-28 23:31 G 11467218.35 11467218.48 11467218.61 0.0070 0.0004

Jupiter 26684-03-30 22:48 G 11467280.28 11467280.45 11467280.61 0.0516 0.0105

Pluto 26684-04-26 00:00 G 11467306.37 11467306.50 11467306.63 0.0070 0.0014

Pluto 26684-07-23 00:29 G 11467394.40 11467394.52 11467394.65 0.0071 0.0024

Pluto 26684-10-19 00:57 G 11467482.44 11467482.54 11467482.67 0.0071 0.0034

Pluto 26685-01-15 01:26 G 11467570.47 11467570.56 11467570.68 0.0071 0.0044

Pluto 26685-04-13 02:09 G 11467658.52 11467658.59 11467658.69 0.0071 0.0054

Pluto 26685-07-10 02:38 G 11467746.57 11467746.61 11467746.68 0.0071 0.0064

Venus 26689-04-26 18:00 G 11469133.18 11469133.25 11469133.31 0.3691 0.3185

Jupiter 26689-08-20 12:29 G 11469248.92 11469249.02 11469249.14 0.0513 0.0290

Jupiter 26689-11-17 20:24 G 11469338.24 11469338.35 11469338.47 0.0510 0.0297

Mars 26693-04-05 19:41 G 11470573.23 11470573.32 11470573.40 0.1695 0.1296

Moon 26693-08-21 02:09 G 11470710.45 11470710.59 11470710.74 0.2661 0.0270

Earth 26693-08-21 03:36 G 11470710.51 11470710.65 11470710.80 0.2662 0.0184 *

Venus 26694-11-10 16:19 G 11471157.05 11471157.18 11471157.30 0.3692 0.0773

Saturn 26695-06-02 20:53 G 11471361.32 11471361.37 11471361.41 0.0266 0.0251

Saturn 26695-08-30 08:09 G 11471449.73 11471449.84 11471449.95 0.0266 0.0158

Saturn 26695-11-26 19:41 G 11471538.18 11471538.32 11471538.46 0.0266 0.0064

Jupiter 26696-01-17 21:50 G 11471590.24 11471590.41 11471590.57 0.0515 0.0081

Moon 26696-02-21 05:17 G 11471624.61 11471624.72 11471624.84 0.2671 0.0108

Earth 26696-02-21 06:14 G 11471624.64 11471624.76 11471624.87 0.2670 0.0162 *

Saturn 26696-02-23 07:26 G 11471626.66 11471626.81 11471626.95 0.0266 0.0034

Saturn 26696-05-21 19:12 G 11471715.18 11471715.30 11471715.43 0.0266 0.0131

Venus 26696-05-23 17:17 G 11471717.13 11471717.22 11471717.32 0.3679 0.2060

Saturn 26696-08-18 07:26 G 11471803.74 11471803.81 11471803.88 0.0266 0.0231

Venus 26700-05-27 14:09 G 11473180.98 11473181.09 11473181.20 0.3693 0.1527

Jupiter 26701-06-09 16:19 G 11473559.12 11473559.18 11473559.26 0.0514 0.0432

Jupiter 26701-09-07 00:14 G 11473648.38 11473648.51 11473648.64 0.0511 0.0152

Mars 26701-11-05 00:29 G 11473707.48 11473707.52 11473707.57 0.1844 0.1716

Venus 26701-12-08 12:29 G 11473740.90 11473741.02 11473741.14 0.3679 0.0226

Mars 26702-08-28 03:36 G 11474003.53 11474003.65 11474003.78 0.1702 0.0407

Moon 26706-08-25 05:31 G 11475461.64 11475461.73 11475461.82 0.2666 0.2007

Earth 26706-08-25 06:43 G 11475461.70 11475461.78 11475461.85 0.2661 0.2228 *

Venus 26707-06-24 08:09 G 11475764.73 11475764.84 11475764.94 0.3678 0.1725

Jupiter 26707-11-06 20:38 G 11475900.21 11475900.36 11475900.51 0.0514 0.0268

Jupiter 26708-02-04 23:45 G 11475990.45 11475990.49 11475990.54 0.0518 0.0497

Moon 26709-02-24 00:43 G 11476375.44 11476375.53 11476375.62 0.2676 0.1566

Earth 26709-02-24 00:57 G 11476375.45 11476375.54 11476375.63 0.2670 0.1657 *

Saturn 26710-04-06 09:07 G 11476781.82 11476781.88 11476781.94 0.0295 0.0273

Saturn 26710-07-04 06:14 G 11476870.61 11476870.76 11476870.92 0.0295 0.0111

Saturn 26710-10-01 03:07 G 11476959.47 11476959.63 11476959.80 0.0295 0.0048

Saturn 26710-12-28 23:31 G 11477048.36 11477048.48 11477048.60 0.0294 0.0203

Mars 26711-03-28 03:07 G 11477137.49 11477137.63 11477137.77 0.1835 0.0343

Mars 26712-01-18 12:00 G 11477433.87 11477434.00 11477434.12 0.1709 0.0481

Uranus 26712-11-29 16:33 G 11477750.12 11477750.19 11477750.28 0.0133 0.0118

Uranus 26713-02-25 22:05 G 11477838.31 11477838.42 11477838.55 0.0133 0.0097

Uranus 26713-05-25 03:36 G 11477926.52 11477926.65 11477926.80 0.0133 0.0075

Jupiter 26713-06-26 03:07 G 11477958.50 11477958.63 11477958.77 0.0512 0.0012

Uranus 26713-08-21 09:07 G 11478014.73 11478014.88 11478015.04 0.0133 0.0054

Uranus 26713-11-17 14:38 G 11478102.95 11478103.11 11478103.28 0.0133 0.0033

Uranus 26714-02-13 20:09 G 11478191.17 11478191.34 11478191.51 0.0133 0.0012

Uranus 26714-05-13 01:26 G 11478279.39 11478279.56 11478279.73 0.0133 0.0009

Uranus 26714-08-09 06:43 G 11478367.62 11478367.78 11478367.95 0.0133 0.0029

Uranus 26714-11-05 12:00 G 11478455.84 11478456.00 11478456.16 0.0133 0.0050

Uranus 26715-02-01 17:02 G 11478544.07 11478544.21 11478544.36 0.0133 0.0070

Uranus 26715-04-30 22:05 G 11478632.31 11478632.42 11478632.55 0.0133 0.0090

Uranus 26715-07-28 03:07 G 11478720.55 11478720.63 11478720.74 0.0133 0.0110

Uranus 26715-10-24 08:24 G 11478808.82 11478808.85 11478808.89 0.0133 0.0130

Moon 26716-02-17 21:36 G 11478925.37 11478925.40 11478925.43 0.2663 0.2552

Earth 26716-02-17 21:50 G 11478925.37 11478925.41 11478925.45 0.2669 0.2488 *

Jupiter 26719-08-25 19:12 G 11480210.23 11480210.30 11480210.38 0.0513 0.0459

Jupiter 26719-11-23 23:02 G 11480300.33 11480300.46 11480300.59 0.0516 0.0311

Mars 26720-08-17 05:45 G 11480567.62 11480567.74 11480567.86 0.1827 0.1026

Mars 26721-06-09 20:09 G 11480864.27 11480864.34 11480864.42 0.1717 0.1361

Saturn 26725-01-17 11:02 G 11482181.86 11482181.96 11482182.07 0.0265 0.0180

Jupiter 26725-04-14 06:57 G 11482268.66 11482268.79 11482268.92 0.0513 0.0149

Saturn 26725-04-15 22:33 G 11482270.31 11482270.44 11482270.58 0.0265 0.0085

Jupiter 26725-07-12 15:07 G 11482358.07 11482358.13 11482358.20 0.0510 0.0441

Saturn 26725-07-13 10:19 G 11482358.78 11482358.93 11482359.07 0.0265 0.0012

Saturn 26725-10-09 22:05 G 11482447.29 11482447.42 11482447.55 0.0265 0.0108

Saturn 26726-01-06 10:05 G 11482535.84 11482535.92 11482536.01 0.0266 0.0208

Moon 26726-08-20 05:02 G 11482761.64 11482761.71 11482761.79 0.2658 0.2288

Earth 26726-08-20 06:29 G 11482761.69 11482761.77 11482761.85 0.2662 0.2167 *

Moon 26729-02-19 15:36 G 11483676.05 11483676.15 11483676.26 0.2668 0.1082

Earth 26729-02-19 16:19 G 11483676.08 11483676.18 11483676.29 0.2670 0.1034 *

Jupiter 26731-09-11 21:21 G 11484610.22 11484610.39 11484610.55 0.0516 0.0115

Mars 26732-10-05 19:41 G 11485000.25 11485000.32 11485000.39 0.1695 0.1416

Jupiter 26737-01-31 11:02 G 11486578.85 11486578.96 11486579.07 0.0514 0.0287

Jupiter 26737-04-30 18:57 G 11486668.19 11486668.29 11486668.41 0.0511 0.0302

Neptune 26738-06-09 11:45 G 11487072.97 11487072.99 11487073.05 0.0089 0.0087

Neptune 26738-09-05 14:53 G 11487161.05 11487161.12 11487161.22 0.0089 0.0078

Neptune 26738-12-02 17:45 G 11487249.14 11487249.24 11487249.37 0.0089 0.0068

Neptune 26739-02-28 20:53 G 11487337.24 11487337.37 11487337.51 0.0089 0.0058

Neptune 26739-05-27 23:45 G 11487425.35 11487425.49 11487425.64 0.0089 0.0049

Moon 26739-08-23 08:24 G 11487512.71 11487512.85 11487513.00 0.2663 0.0095

Earth 26739-08-23 09:50 G 11487512.76 11487512.91 11487513.05 0.2662 0.0316 *

Neptune 26739-08-24 02:38 G 11487513.46 11487513.61 11487513.78 0.0089 0.0040

Neptune 26739-11-20 05:31 G 11487601.57 11487601.73 11487601.90 0.0089 0.0031

Saturn 26739-11-21 05:02 G 11487602.57 11487602.71 11487602.85 0.0295 0.0163

Neptune 26740-02-16 08:24 G 11487689.69 11487689.85 11487690.03 0.0089 0.0021

Saturn 26740-02-18 01:55 G 11487691.41 11487691.58 11487691.75 0.0294 0.0004

Neptune 26740-05-14 11:17 G 11487777.80 11487777.97 11487778.15 0.0089 0.0012

Saturn 26740-05-16 22:19 G 11487780.29 11487780.43 11487780.57 0.0294 0.0153

Neptune 26740-08-10 14:09 G 11487865.92 11487866.09 11487866.27 0.0089 0.0004

Neptune 26740-11-06 17:02 G 11487954.04 11487954.21 11487954.39 0.0089 0.0007

Neptune 26741-02-02 19:55 G 11488042.16 11488042.33 11488042.50 0.0089 0.0016

Neptune 26741-05-01 22:33 G 11488130.28 11488130.44 11488130.62 0.0089 0.0025

Neptune 26741-07-29 01:26 G 11488218.40 11488218.56 11488218.72 0.0089 0.0034

Neptune 26741-10-25 04:19 G 11488306.53 11488306.68 11488306.83 0.0089 0.0043

Neptune 26742-01-21 06:57 G 11488394.66 11488394.79 11488394.94 0.0089 0.0053

Moon 26742-02-22 10:19 G 11488426.82 11488426.93 11488427.05 0.2672 0.0306

Earth 26742-02-22 11:02 G 11488426.85 11488426.96 11488427.08 0.2670 0.0466 *

Mars 26742-02-26 03:50 G 11488430.54 11488430.66 11488430.78 0.1702 0.0534

Neptune 26742-04-19 09:50 G 11488482.79 11488482.91 11488483.04 0.0089 0.0061

Neptune 26742-07-16 12:29 G 11488570.92 11488571.02 11488571.13 0.0089 0.0071

Neptune 26742-10-12 15:07 G 11488659.06 11488659.13 11488659.22 0.0089 0.0080

Neptune 26743-01-08 17:45 G 11488747.24 11488747.24 11488747.27 0.0089 0.0089

Jupiter 26743-06-30 20:09 G 11488920.18 11488920.34 11488920.51 0.0515 0.0074

Venus 26745-12-02 17:17 G 11489806.12 11489806.22 11489806.31 0.3691 0.2377

Venus 26747-06-15 20:38 G 11490366.31 11490366.36 11490366.42 0.3680 0.3250

Jupiter 26748-11-19 15:21 G 11490889.06 11490889.14 11490889.21 0.0514 0.0425

Jupiter 26749-02-16 23:02 G 11490978.33 11490978.46 11490978.59 0.0511 0.0160

Mars 26750-09-26 03:36 G 11491564.51 11491564.65 11491564.79 0.1836 0.0511

Venus 26751-06-18 15:21 G 11491830.01 11491830.14 11491830.27 0.3692 0.0006

Mars 26751-07-19 12:00 G 11491860.88 11491861.00 11491861.13 0.1709 0.0352

Moon 26752-08-25 11:31 G 11492263.98 11492263.98 11492263.99 0.2666 0.2662

Venus 26752-12-29 15:36 G 11492390.05 11492390.15 11492390.26 0.3679 0.1457

Saturn 26754-06-06 12:14 G 11492913.93 11492914.01 11492914.09 0.0266 0.0217

Saturn 26754-09-02 23:31 G 11493002.36 11493002.48 11493002.61 0.0266 0.0124

Saturn 26754-11-30 11:02 G 11493090.82 11493090.96 11493091.11 0.0266 0.0030

Moon 26755-02-25 05:45 G 11493177.66 11493177.74 11493177.81 0.2677 0.1997

Earth 26755-02-25 06:00 G 11493177.68 11493177.75 11493177.83 0.2670 0.1975 *

Uranus 26755-02-25 15:21 G 11493178.11 11493178.14 11493178.19 0.0145 0.0138

Saturn 26755-02-26 23:02 G 11493179.32 11493179.46 11493179.59 0.0266 0.0069

Jupiter 26755-04-18 19:12 G 11493230.15 11493230.30 11493230.45 0.0514 0.0260

Uranus 26755-05-24 19:55 G 11493266.25 11493266.33 11493266.41 0.0145 0.0116

Saturn 26755-05-26 10:48 G 11493267.84 11493267.95 11493268.07 0.0266 0.0168

Jupiter 26755-07-17 22:33 G 11493320.41 11493320.44 11493320.47 0.0518 0.0507

Uranus 26755-08-21 00:14 G 11493354.40 11493354.51 11493354.62 0.0145 0.0094

Uranus 26755-11-17 04:33 G 11493442.57 11493442.69 11493442.82 0.0145 0.0072

Uranus 26756-02-13 09:07 G 11493530.75 11493530.88 11493531.02 0.0145 0.0050

Uranus 26756-05-11 13:41 G 11493618.93 11493619.07 11493619.21 0.0145 0.0027

Uranus 26756-08-07 18:14 G 11493707.11 11493707.26 11493707.41 0.0145 0.0004

Uranus 26756-11-03 22:48 G 11493795.31 11493795.45 11493795.60 0.0145 0.0019

Venus 26757-01-01 13:12 G 11493853.95 11493854.05 11493854.15 0.3693 0.2274

Uranus 26757-01-31 03:21 G 11493883.50 11493883.64 11493883.78 0.0145 0.0042

Uranus 26757-04-29 07:55 G 11493971.71 11493971.83 11493971.97 0.0145 0.0065

Uranus 26757-07-26 12:43 G 11494059.92 11494060.03 11494060.15 0.0145 0.0088

Uranus 26757-10-22 17:17 G 11494148.14 11494148.22 11494148.32 0.0145 0.0113

Uranus 26758-01-18 22:05 G 11494236.38 11494236.42 11494236.48 0.0145 0.0136

Venus 26758-07-15 11:02 G 11494413.84 11494413.96 11494414.08 0.3679 0.0427

Mars 26760-02-16 06:14 G 11494994.63 11494994.76 11494994.89 0.1827 0.0860

Jupiter 26760-12-06 02:53 G 11495288.48 11495288.62 11495288.75 0.0512 0.0021

Mars 26760-12-08 20:24 G 11495291.26 11495291.35 11495291.43 0.1716 0.1241

Moon 26762-02-18 02:24 G 11495727.54 11495727.60 11495727.66 0.2664 0.2220

Earth 26762-02-18 02:38 G 11495727.55 11495727.61 11495727.68 0.2669 0.2189 *

Venus 26764-01-29 06:43 G 11496437.69 11496437.78 11496437.86 0.3678 0.2385

Jupiter 26767-02-04 18:14 G 11497540.17 11497540.26 11497540.34 0.0513 0.0446

Jupiter 26767-05-05 21:50 G 11497630.28 11497630.41 11497630.54 0.0517 0.0325

Pluto 26768-07-01 17:31 G 11498053.14 11498053.23 11498053.35 0.0074 0.0062

Pluto 26768-09-27 19:55 G 11498141.19 11498141.33 11498141.51 0.0074 0.0045

Pluto 26768-12-24 22:33 G 11498229.27 11498229.44 11498229.64 0.0074 0.0028

Pluto 26769-03-23 01:26 G 11498317.37 11498317.56 11498317.76 0.0074 0.0010

Saturn 26769-04-09 02:24 G 11498334.49 11498334.60 11498334.71 0.0295 0.0223

Pluto 26769-06-19 04:05 G 11498405.47 11498405.67 11498405.87 0.0073 0.0007

Saturn 26769-07-06 23:45 G 11498423.32 11498423.49 11498423.65 0.0295 0.0061

Pluto 26769-09-15 06:43 G 11498493.59 11498493.78 11498493.97 0.0073 0.0024

Saturn 26769-10-03 20:24 G 11498512.19 11498512.35 11498512.51 0.0295 0.0097

Pluto 26769-12-12 09:07 G 11498581.72 11498581.88 11498582.05 0.0073 0.0040

Saturn 26769-12-31 16:19 G 11498601.11 11498601.18 11498601.28 0.0295 0.0251

Pluto 26770-03-10 11:17 G 11498669.86 11498669.97 11498670.11 0.0073 0.0057

Mars 26772-04-05 19:41 G 11499427.27 11499427.32 11499427.37 0.1695 0.1542

Moon 26772-08-20 11:17 G 11499563.87 11499563.97 11499564.08 0.2658 0.1842

Earth 26772-08-20 12:43 G 11499563.91 11499564.03 11499564.14 0.2662 0.1663 *

Jupiter 26772-09-24 05:45 G 11499598.61 11499598.74 11499598.87 0.0513 0.0142

Jupiter 26772-12-22 13:55 G 11499688.02 11499688.08 11499688.15 0.0510 0.0449

Moon 26775-02-20 20:38 G 11500478.25 11500478.36 11500478.46 0.2668 0.0891

Earth 26775-02-20 21:21 G 11500478.28 11500478.39 11500478.50 0.2669 0.0728 *

Jupiter 26779-02-21 20:53 G 11501940.21 11501940.37 11501940.54 0.0516 0.0140

Mars 26781-08-27 03:50 G 11502857.54 11502857.66 11502857.78 0.1702 0.0659

Saturn 26783-10-24 15:07 G 11503646.08 11503646.13 11503646.20 0.0265 0.0238

Saturn 26784-01-21 02:38 G 11503734.49 11503734.61 11503734.73 0.0265 0.0145

Saturn 26784-04-18 14:09 G 11503822.95 11503823.09 11503823.23 0.0265 0.0051

Jupiter 26784-07-13 09:36 G 11503908.79 11503908.90 11503909.01 0.0514 0.0285

Saturn 26784-07-16 01:41 G 11503911.43 11503911.57 11503911.71 0.0265 0.0046

Jupiter 26784-10-10 17:31 G 11503998.12 11503998.23 11503998.34 0.0511 0.0304

Saturn 26784-10-12 13:41 G 11503999.95 11504000.07 11504000.19 0.0265 0.0144

Saturn 26785-01-09 01:41 G 11504088.52 11504088.57 11504088.63 0.0265 0.0244

Moon 26785-08-23 14:24 G 11504314.96 11504315.10 11504315.24 0.2664 0.0685

Earth 26785-08-23 15:50 G 11504315.02 11504315.16 11504315.30 0.2662 0.0791 *

Moon 26788-02-23 15:21 G 11505229.03 11505229.14 11505229.25 0.2673 0.0745

Earth 26788-02-23 16:05 G 11505229.06 11505229.17 11505229.28 0.2670 0.0766 *

Mars 26790-03-27 04:05 G 11505991.53 11505991.67 11505991.80 0.1835 0.0676

Jupiter 26790-12-10 19:12 G 11506250.13 11506250.30 11506250.47 0.0515 0.0059

Mars 26791-01-17 12:14 G 11506287.88 11506288.01 11506288.13 0.1709 0.0238

Jupiter 26796-05-01 13:55 G 11508219.00 11508219.08 11508219.15 0.0515 0.0422

Jupiter 26796-07-29 21:36 G 11508308.27 11508308.40 11508308.53 0.0512 0.0164

Uranus 26796-12-19 23:17 G 11508451.39 11508451.47 11508451.57 0.0133 0.0113

Uranus 26797-03-18 05:02 G 11508539.59 11508539.71 11508539.84 0.0133 0.0092

Uranus 26797-06-14 10:33 G 11508627.80 11508627.94 11508628.09 0.0133 0.0070

Uranus 26797-09-10 16:05 G 11508716.01 11508716.17 11508716.33 0.0133 0.0049

Uranus 26797-12-07 21:36 G 11508804.23 11508804.40 11508804.56 0.0133 0.0028

Uranus 26798-03-06 02:53 G 11508892.45 11508892.62 11508892.79 0.0133 0.0007

Uranus 26798-06-02 08:09 G 11508980.68 11508980.84 11508981.01 0.0133 0.0014

Saturn 26798-08-27 00:57 G 11509066.49 11509066.54 11509066.60 0.0295 0.0276

Uranus 26798-08-29 13:26 G 11509068.90 11509069.06 11509069.23 0.0133 0.0034

Saturn 26798-11-23 22:19 G 11509155.28 11509155.43 11509155.59 0.0295 0.0113

Uranus 26798-11-25 18:43 G 11509157.13 11509157.28 11509157.44 0.0133 0.0054

Saturn 26799-02-20 19:12 G 11509244.14 11509244.30 11509244.47 0.0295 0.0047

Uranus 26799-02-22 00:00 G 11509245.36 11509245.50 11509245.64 0.0133 0.0074

Saturn 26799-05-20 15:36 G 11509333.03 11509333.15 11509333.27 0.0295 0.0201

Uranus 26799-05-21 05:02 G 11509333.60 11509333.71 11509333.83 0.0133 0.0095

Mars 26799-08-17 06:29 G 11509421.63 11509421.77 11509421.90 0.1827 0.0709

Uranus 26799-08-17 10:19 G 11509421.85 11509421.93 11509422.01 0.0133 0.0114 *

Mars 26800-06-08 20:38 G 11509718.26 11509718.36 11509718.45 0.1716 0.1111

Moon 26801-02-25 10:48 G 11509979.89 11509979.95 11509980.01 0.2676 0.2205

Earth 26801-02-25 11:02 G 11509979.90 11509979.96 11509980.02 0.2670 0.2296 *

Venus 26802-07-09 16:19 G 11510479.07 11510479.18 11510479.30 0.3692 0.1595

Jupiter 26802-09-28 18:00 G 11510560.10 11510560.25 11510560.40 0.0514 0.0248

Jupiter 26802-12-27 21:07 G 11510650.38 11510650.38 11510650.39 0.0517 0.0517

Venus 26804-01-20 18:57 G 11511039.22 11511039.29 11511039.37 0.3679 0.2657

Venus 26808-01-23 14:38 G 11512502.98 11512503.11 11512503.23 0.3692 0.0776

Moon 26808-02-19 06:57 G 11512529.72 11512529.79 11512529.87 0.2665 0.1949

Earth 26808-02-19 07:41 G 11512529.74 11512529.82 11512529.90 0.2669 0.1889 *

Jupiter 26808-05-18 01:41 G 11512618.43 11512618.57 11512618.70 0.0512 0.0026

Venus 26809-08-05 14:09 G 11513062.98 11513063.09 11513063.20 0.3679 0.0825

Mars 26811-10-05 19:55 G 11513854.32 11513854.33 11513854.35 0.1695 0.1679

Saturn 26813-06-09 03:36 G 11514466.55 11514466.65 11514466.75 0.0265 0.0183

Venus 26813-08-08 12:14 G 11514526.94 11514527.01 11514527.08 0.3693 0.3005

Saturn 26813-09-05 14:53 G 11514554.99 11514555.12 11514555.26 0.0265 0.0090

Saturn 26813-12-03 02:38 G 11514643.46 11514643.61 11514643.75 0.0265 0.0008

Saturn 26814-03-01 14:24 G 11514731.97 11514732.10 11514732.23 0.0265 0.0104

Saturn 26814-05-29 02:09 G 11514820.51 11514820.59 11514820.69 0.0266 0.0203

Jupiter 26814-07-17 16:33 G 11514870.11 11514870.19 11514870.29 0.0513 0.0437

Jupiter 26814-10-15 20:24 G 11514960.23 11514960.35 11514960.48 0.0517 0.0336

Venus 26815-02-19 09:36 G 11515086.79 11515086.90 11515087.01 0.3678 0.1082

Moon 26818-08-21 17:31 G 11516366.11 11516366.23 11516366.36 0.2660 0.1340

Earth 26818-08-21 18:57 G 11516366.15 11516366.29 11516366.42 0.2662 0.1160 *

Neptune 26819-03-20 06:00 G 11516576.74 11516576.75 11516576.80 0.0088 0.0087

Neptune 26819-06-16 07:41 G 11516664.77 11516664.82 11516664.89 0.0088 0.0079

Neptune 26819-09-12 09:36 G 11516752.82 11516752.90 11516752.98 0.0088 0.0072

Neptune 26819-12-09 11:02 G 11516840.87 11516840.96 11516841.06 0.0088 0.0065

Jupiter 26820-03-06 05:31 G 11516928.60 11516928.73 11516928.86 0.0513 0.0117

Neptune 26820-03-06 12:29 G 11516928.92 11516929.02 11516929.13 0.0088 0.0058

Neptune 26820-06-02 14:09 G 11517016.98 11517017.09 11517017.21 0.0088 0.0050

Jupiter 26820-06-03 13:41 G 11517018.02 11517018.07 11517018.12 0.0509 0.0472

Neptune 26820-08-29 15:36 G 11517105.04 11517105.15 11517105.28 0.0088 0.0043

Venus 26820-09-04 05:17 G 11517110.65 11517110.72 11517110.78 0.3678 0.3062

Neptune 26820-11-25 17:17 G 11517193.10 11517193.22 11517193.36 0.0088 0.0036

Moon 26821-02-21 01:26 G 11517280.45 11517280.56 11517280.67 0.2668 0.0495

Earth 26821-02-21 02:09 G 11517280.48 11517280.59 11517280.71 0.2669 0.0430 *

Neptune 26821-02-21 18:57 G 11517281.16 11517281.29 11517281.43 0.0088 0.0029

Mars 26821-02-25 04:05 G 11517284.55 11517284.67 11517284.78 0.1702 0.0783

Neptune 26821-05-20 20:38 G 11517369.22 11517369.36 11517369.50 0.0088 0.0021

Neptune 26821-08-16 22:05 G 11517457.29 11517457.42 11517457.57 0.0088 0.0014

Neptune 26821-11-12 23:45 G 11517545.35 11517545.49 11517545.64 0.0088 0.0007

Neptune 26822-02-09 01:26 G 11517633.42 11517633.56 11517633.70 0.0088 0.0001

Neptune 26822-05-08 03:07 G 11517721.48 11517721.63 11517721.77 0.0088 0.0008

Neptune 26822-08-04 04:33 G 11517809.55 11517809.69 11517809.84 0.0088 0.0016

Neptune 26822-10-31 06:14 G 11517897.63 11517897.76 11517897.90 0.0088 0.0023

Neptune 26823-01-27 07:55 G 11517985.70 11517985.83 11517985.97 0.0088 0.0030

Neptune 26823-04-25 09:36 G 11518073.77 11518073.90 11518074.03 0.0088 0.0038

Neptune 26823-07-22 11:02 G 11518161.85 11518161.96 11518162.09 0.0088 0.0045

Neptune 26823-10-18 12:43 G 11518249.92 11518250.03 11518250.15 0.0088 0.0053

Neptune 26824-01-14 14:24 G 11518338.00 11518338.10 11518338.21 0.0088 0.0060

Neptune 26824-04-11 16:05 G 11518426.09 11518426.17 11518426.27 0.0088 0.0068

Neptune 26824-07-08 17:31 G 11518514.17 11518514.23 11518514.32 0.0088 0.0076

Neptune 26824-10-04 19:26 G 11518602.27 11518602.31 11518602.37 0.0088 0.0082

Jupiter 26826-08-03 19:55 G 11519270.17 11519270.33 11519270.49 0.0516 0.0155

Saturn 26828-04-11 19:26 G 11519887.18 11519887.31 11519887.45 0.0295 0.0176

Saturn 26828-07-09 16:33 G 11519976.03 11519976.19 11519976.36 0.0295 0.0016

Saturn 26828-10-06 13:12 G 11520064.91 11520065.05 11520065.20 0.0295 0.0143

Mars 26829-09-25 04:19 G 11520418.56 11520418.68 11520418.81 0.1836 0.0842

Mars 26830-07-18 12:14 G 11520714.88 11520715.01 11520715.14 0.1709 0.0106

Moon 26831-08-24 20:38 G 11521117.23 11521117.36 11521117.49 0.2665 0.1075

Earth 26831-08-24 22:05 G 11521117.29 11521117.42 11521117.54 0.2662 0.1283 *

Jupiter 26831-12-24 08:24 G 11521238.74 11521238.85 11521238.97 0.0514 0.0276

Jupiter 26832-03-22 16:33 G 11521328.08 11521328.19 11521328.29 0.0511 0.0313

Moon 26834-02-23 20:24 G 11522031.25 11522031.35 11522031.46 0.2675 0.0957

Earth 26834-02-23 21:07 G 11522031.27 11522031.38 11522031.48 0.2669 0.1080 *

Jupiter 26838-05-22 18:57 G 11523580.12 11523580.29 11523580.46 0.0515 0.0032

Mars 26839-02-15 06:57 G 11523848.65 11523848.79 11523848.93 0.1827 0.0529

Uranus 26839-03-17 21:50 G 11523879.37 11523879.41 11523879.47 0.0145 0.0136

Uranus 26839-06-14 02:09 G 11523967.52 11523967.59 11523967.69 0.0145 0.0114

Uranus 26839-09-10 06:43 G 11524055.68 11524055.78 11524055.90 0.0145 0.0092

Uranus 26839-12-07 11:02 G 11524143.84 11524143.96 11524144.10 0.0145 0.0070

Mars 26839-12-08 20:24 G 11524145.25 11524145.35 11524145.46 0.1716 0.0999

Uranus 26840-03-04 15:50 G 11524232.02 11524232.16 11524232.29 0.0145 0.0047

Uranus 26840-05-31 20:09 G 11524320.20 11524320.34 11524320.49 0.0145 0.0025

Uranus 26840-08-28 00:43 G 11524408.39 11524408.53 11524408.68 0.0145 0.0005

Uranus 26840-11-24 05:17 G 11524496.58 11524496.72 11524496.87 0.0145 0.0022

Uranus 26841-02-20 09:50 G 11524584.78 11524584.91 11524585.06 0.0145 0.0045

Uranus 26841-05-19 14:38 G 11524672.98 11524673.11 11524673.24 0.0145 0.0068

Uranus 26841-08-15 19:26 G 11524761.20 11524761.31 11524761.42 0.0145 0.0091

Uranus 26841-11-12 00:00 G 11524849.42 11524849.50 11524849.59 0.0145 0.0115

Uranus 26842-02-08 04:33 G 11524937.67 11524937.69 11524937.75 0.0145 0.0139

Saturn 26842-10-27 06:29 G 11525198.68 11525198.77 11525198.86 0.0265 0.0206

Saturn 26843-01-23 17:45 G 11525287.12 11525287.24 11525287.37 0.0265 0.0112

Saturn 26843-04-22 05:17 G 11525375.58 11525375.72 11525375.87 0.0265 0.0018

Saturn 26843-07-19 17:02 G 11525464.08 11525464.21 11525464.35 0.0265 0.0080

Jupiter 26843-10-12 12:29 G 11525548.94 11525549.02 11525549.09 0.0515 0.0419

Saturn 26843-10-16 05:02 G 11525552.61 11525552.71 11525552.82 0.0265 0.0179

Jupiter 26844-01-09 20:09 G 11525638.21 11525638.34 11525638.47 0.0512 0.0167

Earth 26847-02-26 16:05 G 11526782.15 11526782.17 11526782.19 0.2670 0.2610

Moon 26847-02-26 15:50 G 11526782.16 11526782.16 11526782.17 0.2676 0.2665 *

Jupiter 26850-03-10 17:02 G 11527890.06 11527890.21 11527890.36 0.0514 0.0231

Venus 26853-07-30 17:17 G 11529128.16 11529128.22 11529128.28 0.3691 0.3242

Moon 26854-02-19 12:00 G 11529331.91 11529332.00 11529332.08 0.2665 0.1704

Earth 26854-02-19 12:29 G 11529331.93 11529332.02 11529332.11 0.2669 0.1584 *

Jupiter 26855-10-29 00:14 G 11529948.37 11529948.51 11529948.64 0.0513 0.0030

Saturn 26857-08-29 18:00 G 11530619.15 11530619.25 11530619.36 0.0295 0.0229

Saturn 26857-11-26 15:21 G 11530707.98 11530708.14 11530708.31 0.0295 0.0066

Saturn 26858-02-23 12:00 G 11530796.85 11530797.00 11530797.17 0.0295 0.0093

Saturn 26858-05-23 08:24 G 11530885.76 11530885.85 11530885.94 0.0295 0.0247

Venus 26859-02-13 15:36 G 11531152.03 11531152.15 11531152.28 0.3692 0.0803

Mars 26860-08-26 04:19 G 11531711.57 11531711.68 11531711.79 0.1702 0.0917

Venus 26860-08-26 17:31 G 11531712.13 11531712.23 11531712.32 0.3679 0.2045

Jupiter 26861-12-27 15:36 G 11532200.06 11532200.15 11532200.25 0.0513 0.0422

Jupiter 26862-03-27 19:26 G 11532290.18 11532290.31 11532290.43 0.0516 0.0348

Moon 26864-08-21 23:31 G 11533168.34 11533168.48 11533168.62 0.2662 0.0795

Earth 26864-08-22 00:57 G 11533168.40 11533168.54 11533168.68 0.2662 0.0671 *

Venus 26864-08-29 13:41 G 11533175.96 11533176.07 11533176.18 0.3692 0.1532

Venus 26866-03-12 12:43 G 11533735.91 11533736.03 11533736.14 0.3679 0.0233

Moon 26867-02-22 06:29 G 11534082.65 11534082.77 11534082.88 0.2670 0.0232

Earth 26867-02-22 07:12 G 11534082.69 11534082.80 11534082.91 0.2669 0.0114 *

Jupiter 26867-08-17 04:19 G 11534258.55 11534258.68 11534258.81 0.0513 0.0109

Jupiter 26867-11-14 12:29 G 11534347.98 11534348.02 11534348.06 0.0510 0.0481

Mars 26869-03-26 04:48 G 11534845.58 11534845.70 11534845.82 0.1836 0.1003

Mars 26870-01-16 12:29 G 11535141.89 11535142.02 11535142.15 0.1709 0.0044

Venus 26871-09-26 08:09 G 11535759.73 11535759.84 11535759.94 0.3678 0.1745

Saturn 26872-03-15 07:26 G 11535930.77 11535930.81 11535930.87 0.0265 0.0243

Saturn 26872-06-11 18:57 G 11536019.17 11536019.29 11536019.40 0.0265 0.0149

Saturn 26872-09-08 06:14 G 11536107.63 11536107.76 11536107.90 0.0265 0.0056

Saturn 26872-12-05 18:00 G 11536196.11 11536196.25 11536196.39 0.0265 0.0041

Saturn 26873-03-04 05:45 G 11536284.62 11536284.74 11536284.87 0.0265 0.0139

Saturn 26873-05-31 17:45 G 11536373.18 11536373.24 11536373.31 0.0265 0.0238

Jupiter 26874-01-13 18:29 G 11536600.11 11536600.27 11536600.43 0.0516 0.0165

Moon 26877-08-25 02:53 G 11537919.50 11537919.62 11537919.73 0.2665 0.1625

Earth 26877-08-25 04:05 G 11537919.56 11537919.67 11537919.78 0.2662 0.1760 *

Mars 26878-08-16 07:26 G 11538275.67 11538275.81 11538275.95 0.1827 0.0358

Jupiter 26879-06-05 08:24 G 11538568.73 11538568.85 11538568.96 0.0514 0.0251

Mars 26879-06-08 20:38 G 11538572.25 11538572.36 11538572.47 0.1716 0.0868

Jupiter 26879-09-02 16:19 G 11538658.08 11538658.18 11538658.28 0.0510 0.0338

Moon 26880-02-25 01:26 G 11538833.46 11538833.56 11538833.66 0.2675 0.1360

Earth 26880-02-25 01:55 G 11538833.49 11538833.58 11538833.68 0.2669 0.1392 *

Uranus 26880-10-13 00:29 G 11539064.50 11539064.52 11539064.56 0.0133 0.0131

Uranus 26881-01-09 06:14 G 11539152.66 11539152.76 11539152.86 0.0133 0.0109

Uranus 26881-04-07 11:45 G 11539240.86 11539240.99 11539241.12 0.0133 0.0087

Uranus 26881-07-04 17:17 G 11539329.07 11539329.22 11539329.37 0.0133 0.0066

Uranus 26881-09-30 22:48 G 11539417.29 11539417.45 11539417.61 0.0133 0.0045

Uranus 26881-12-28 04:05 G 11539505.51 11539505.67 11539505.85 0.0133 0.0025

Uranus 26882-03-26 09:36 G 11539593.73 11539593.90 11539594.07 0.0133 0.0004

Uranus 26882-06-22 14:53 G 11539681.96 11539682.12 11539682.29 0.0133 0.0018

Uranus 26882-09-18 20:09 G 11539770.18 11539770.34 11539770.51 0.0133 0.0038

Uranus 26882-12-16 01:41 G 11539858.41 11539858.57 11539858.72 0.0133 0.0059

Uranus 26883-03-14 06:29 G 11539946.65 11539946.77 11539946.92 0.0133 0.0079

Uranus 26883-06-10 11:45 G 11540034.89 11540034.99 11540035.11 0.0133 0.0099

Uranus 26883-09-06 16:48 G 11540123.14 11540123.20 11540123.29 0.0133 0.0119

Jupiter 26885-11-01 18:00 G 11540910.08 11540910.25 11540910.42 0.0515 0.0016

Saturn 26887-04-15 12:00 G 11541439.85 11541440.00 11541440.16 0.0295 0.0132

Saturn 26887-07-13 09:07 G 11541528.71 11541528.88 11541529.05 0.0295 0.0029

Saturn 26887-10-10 05:31 G 11541617.61 11541617.73 11541617.86 0.0295 0.0186

Mars 26888-01-06 09:36 G 11541705.87 11541705.90 11541705.94 0.1819 0.1747

Jupiter 26891-03-24 11:17 G 11542878.89 11542878.97 11542879.05 0.0515 0.0409

Jupiter 26891-06-21 18:57 G 11542968.17 11542968.29 11542968.42 0.0511 0.0179

Jupiter 26897-08-20 17:02 G 11545220.05 11545220.21 11545220.36 0.0514 0.0203

Moon 26900-02-20 16:48 G 11546134.10 11546134.20 11546134.30 0.2665 0.1330

Earth 26900-02-20 17:31 G 11546134.13 11546134.23 11546134.33 0.2669 0.1284 *

Mars 26900-02-25 04:19 G 11546138.58 11546138.68 11546138.78 0.1701 0.1035

Saturn 26901-08-03 10:33 G 11546662.94 11546662.94 11546662.94 0.0265 0.0265

Saturn 26901-10-30 21:36 G 11546751.30 11546751.40 11546751.51 0.0265 0.0173

Saturn 26902-01-27 09:07 G 11546839.75 11546839.88 11546840.02 0.0265 0.0079

Saturn 26902-04-25 20:38 G 11546928.22 11546928.36 11546928.51 0.0265 0.0018

Saturn 26902-07-23 08:24 G 11547016.72 11547016.85 11547016.98 0.0265 0.0115

Saturn 26902-10-19 20:24 G 11547105.27 11547105.35 11547105.44 0.0265 0.0214

Neptune 26903-03-07 11:02 G 11547243.91 11547243.96 11547244.05 0.0089 0.0082

Jupiter 26903-04-10 22:48 G 11547278.31 11547278.45 11547278.58 0.0512 0.0032

Neptune 26903-06-03 14:09 G 11547332.00 11547332.09 11547332.20 0.0089 0.0073

Neptune 26903-08-30 17:02 G 11547420.10 11547420.21 11547420.35 0.0089 0.0063

Neptune 26903-11-26 20:09 G 11547508.20 11547508.34 11547508.49 0.0089 0.0054

Neptune 26904-02-22 23:02 G 11547596.31 11547596.46 11547596.62 0.0089 0.0044

Neptune 26904-05-21 01:55 G 11547684.42 11547684.58 11547684.75 0.0089 0.0035

Neptune 26904-08-17 04:48 G 11547772.54 11547772.70 11547772.87 0.0089 0.0026

Neptune 26904-11-13 07:41 G 11547860.65 11547860.82 11547861.00 0.0089 0.0016

Neptune 26905-02-09 10:33 G 11547948.77 11547948.94 11547949.12 0.0089 0.0007

Neptune 26905-05-08 13:26 G 11548036.89 11548037.06 11548037.24 0.0089 0.0003

Neptune 26905-08-04 16:19 G 11548125.01 11548125.18 11548125.35 0.0089 0.0012

Neptune 26905-10-31 18:57 G 11548213.13 11548213.29 11548213.47 0.0089 0.0021

Neptune 26906-01-27 21:50 G 11548301.25 11548301.41 11548301.58 0.0089 0.0030

Neptune 26906-04-26 00:29 G 11548389.38 11548389.52 11548389.69 0.0089 0.0040

Neptune 26906-07-23 03:21 G 11548477.50 11548477.64 11548477.79 0.0089 0.0048

Neptune 26906-10-19 06:14 G 11548565.63 11548565.76 11548565.90 0.0089 0.0057

Neptune 26907-01-15 08:53 G 11548653.77 11548653.87 11548653.99 0.0089 0.0066

Neptune 26907-04-13 11:31 G 11548741.90 11548741.98 11548742.09 0.0089 0.0076

Neptune 26907-07-10 14:24 G 11548830.06 11548830.10 11548830.16 0.0089 0.0084

Mars 26908-09-25 05:17 G 11549272.61 11549272.72 11549272.82 0.1836 0.1176

Jupiter 26909-06-09 14:53 G 11549530.02 11549530.12 11549530.22 0.0513 0.0403

Mars 26909-07-18 12:29 G 11549568.89 11549569.02 11549569.15 0.1709 0.0151

Jupiter 26909-09-07 18:29 G 11549620.16 11549620.27 11549620.39 0.0516 0.0365

Venus 26910-03-07 16:33 G 11549801.10 11549801.19 11549801.29 0.3691 0.2424

Moon 26910-08-24 05:45 G 11549970.59 11549970.74 11549970.88 0.2663 0.0451

Earth 26910-08-24 07:12 G 11549970.65 11549970.80 11549970.94 0.2662 0.0191 *

Venus 26911-09-18 20:53 G 11550361.32 11550361.37 11550361.42 0.3680 0.3230

Moon 26913-02-23 11:31 G 11550884.86 11550884.98 11550885.09 0.2672 0.0107

Earth 26913-02-23 12:14 G 11550884.89 11550885.01 11550885.12 0.2669 0.0210 *

Jupiter 26915-01-28 02:53 G 11551588.49 11551588.62 11551588.75 0.0513 0.0107

Jupiter 26915-04-27 11:02 G 11551677.92 11551677.96 11551678.00 0.0510 0.0484

Venus 26915-09-21 14:53 G 11551825.00 11551825.12 11551825.25 0.3692 0.0046

Saturn 26916-09-02 11:17 G 11552171.84 11552171.97 11552172.10 0.0295 0.0181

Saturn 26916-11-30 08:24 G 11552260.68 11552260.85 11552261.02 0.0295 0.0019

Saturn 26917-02-27 05:02 G 11552349.56 11552349.71 11552349.86 0.0295 0.0139

Venus 26917-04-03 15:50 G 11552385.05 11552385.16 11552385.27 0.3679 0.1423

Saturn 26917-05-27 01:12 G 11552438.53 11552438.55 11552438.57 0.0295 0.0292

Mars 26918-02-15 07:41 G 11552702.67 11552702.82 11552702.96 0.1828 0.0210

Mars 26918-12-08 20:53 G 11552999.25 11552999.37 11552999.48 0.1716 0.0741

Venus 26921-04-06 12:43 G 11553848.94 11553849.03 11553849.13 0.3692 0.2291

Jupiter 26921-06-26 17:31 G 11553930.07 11553930.23 11553930.39 0.0515 0.0178

Venus 26922-10-18 11:02 G 11554408.85 11554408.96 11554409.08 0.3678 0.0474

Uranus 26923-04-08 04:48 G 11554580.65 11554580.70 11554580.76 0.0145 0.0132

Uranus 26923-07-05 09:07 G 11554668.80 11554668.88 11554668.98 0.0145 0.0110

Moon 26923-08-27 09:07 G 11554721.79 11554721.88 11554721.96 0.2666 0.2111

Earth 26923-08-27 10:05 G 11554721.85 11554721.92 11554722.00 0.2662 0.2232 *

Uranus 26923-10-01 13:41 G 11554756.96 11554757.07 11554757.19 0.0145 0.0088

Uranus 26923-12-28 18:14 G 11554845.13 11554845.26 11554845.39 0.0145 0.0065

Uranus 26924-03-25 22:33 G 11554933.31 11554933.44 11554933.58 0.0145 0.0043

Uranus 26924-06-22 03:07 G 11555021.49 11555021.63 11555021.78 0.0145 0.0020

Uranus 26924-09-18 07:41 G 11555109.68 11555109.82 11555109.97 0.0145 0.0003

Uranus 26924-12-15 12:14 G 11555197.87 11555198.01 11555198.16 0.0145 0.0026

Uranus 26925-03-13 16:48 G 11555286.07 11555286.20 11555286.34 0.0145 0.0049

Uranus 26925-06-09 21:36 G 11555374.27 11555374.40 11555374.53 0.0145 0.0072

Uranus 26925-09-06 02:09 G 11555462.49 11555462.59 11555462.71 0.0145 0.0096

Uranus 26925-12-03 06:57 G 11555550.71 11555550.79 11555550.88 0.0145 0.0119

Moon 26926-02-26 06:29 G 11555635.68 11555635.77 11555635.86 0.2675 0.1617

Earth 26926-02-26 06:57 G 11555635.70 11555635.79 11555635.88 0.2669 0.1706 *

Uranus 26926-03-01 11:45 G 11555638.97 11555638.99 11555639.02 0.0145 0.0143

Jupiter 26926-11-16 06:57 G 11555898.68 11555898.79 11555898.91 0.0514 0.0244

Jupiter 26927-02-13 14:53 G 11555988.02 11555988.12 11555988.22 0.0511 0.0345

Mars 26927-07-08 10:05 G 11556132.85 11556132.92 11556132.99 0.1819 0.1576

Mars 26928-04-30 05:02 G 11556429.68 11556429.71 11556429.75 0.1723 0.1639

Venus 26928-05-03 06:43 G 11556432.69 11556432.78 11556432.87 0.3678 0.2416

Pluto 26930-09-16 03:07 G 11557298.59 11557298.63 11557298.70 0.0070 0.0063

Pluto 26930-12-13 03:50 G 11557386.58 11557386.66 11557386.75 0.0070 0.0053

Pluto 26931-03-11 04:19 G 11557474.59 11557474.68 11557474.79 0.0070 0.0044

Saturn 26931-03-19 23:02 G 11557483.38 11557483.46 11557483.55 0.0265 0.0208

Pluto 26931-06-07 05:02 G 11557562.60 11557562.71 11557562.83 0.0070 0.0034

Saturn 26931-06-16 10:19 G 11557571.80 11557571.93 11557572.06 0.0265 0.0115

Pluto 26931-09-03 05:45 G 11557650.61 11557650.74 11557650.86 0.0070 0.0025

Saturn 26931-09-12 21:50 G 11557660.27 11557660.41 11557660.55 0.0265 0.0020

Pluto 26931-11-30 06:14 G 11557738.63 11557738.76 11557738.89 0.0070 0.0015

Saturn 26931-12-10 09:21 G 11557748.76 11557748.89 11557749.03 0.0265 0.0077

Pluto 26932-02-26 06:43 G 11557826.65 11557826.78 11557826.91 0.0070 0.0005

Saturn 26932-03-07 21:21 G 11557837.28 11557837.39 11557837.50 0.0265 0.0175

Pluto 26932-05-24 07:26 G 11557914.68 11557914.81 11557914.94 0.0070 0.0005

Pluto 26932-08-20 07:55 G 11558002.70 11558002.83 11558002.96 0.0070 0.0015

Pluto 26932-11-16 08:24 G 11558090.73 11558090.85 11558090.98 0.0071 0.0025

Pluto 26933-02-12 08:53 G 11558178.77 11558178.87 11558178.99 0.0071 0.0035

Moon 26933-02-19 03:36 G 11558185.60 11558185.65 11558185.69 0.2663 0.2410

Earth 26933-02-19 03:50 G 11558185.62 11558185.66 11558185.71 0.2669 0.2425 *

Jupiter 26933-04-14 16:33 G 11558240.02 11558240.19 11558240.36 0.0515 0.0014

Pluto 26933-05-11 09:36 G 11558266.81 11558266.90 11558267.01 0.0071 0.0045

Pluto 26933-08-07 10:05 G 11558354.85 11558354.92 11558355.01 0.0071 0.0055

Pluto 26933-11-03 10:33 G 11558442.91 11558442.94 11558443.01 0.0071 0.0066

Jupiter 26938-09-04 11:02 G 11560208.87 11560208.96 11560209.05 0.0515 0.0384

Jupiter 26938-12-02 18:43 G 11560298.16 11560298.28 11560298.41 0.0511 0.0202

Mars 26939-08-27 04:19 G 11560565.59 11560565.68 11560565.78 0.1701 0.1167

Moon 26943-08-22 08:38 G 11562021.80 11562021.86 11562021.92 0.2659 0.2421

Earth 26943-08-22 09:50 G 11562021.82 11562021.91 11562021.99 0.2662 0.2182 *

Jupiter 26945-01-31 15:50 G 11562550.00 11562550.16 11562550.32 0.0514 0.0189

Saturn 26946-01-20 07:26 G 11562903.72 11562903.81 11562903.90 0.0295 0.0250

Moon 26946-02-21 21:50 G 11562936.30 11562936.41 11562936.51 0.2666 0.1127

Earth 26946-02-21 22:19 G 11562936.33 11562936.43 11562936.54 0.2669 0.0981 *

Saturn 26946-04-19 04:48 G 11562992.54 11562992.70 11562992.87 0.0295 0.0086

Saturn 26946-07-17 01:55 G 11563081.41 11563081.58 11563081.74 0.0295 0.0074

Saturn 26946-10-13 22:05 G 11563170.32 11563170.42 11563170.53 0.0295 0.0230

Mars 26948-03-26 05:31 G 11563699.63 11563699.73 11563699.83 0.1836 0.1335

Mars 26949-01-16 12:43 G 11563995.90 11563996.03 11563996.15 0.1708 0.0276

Jupiter 26950-09-20 21:36 G 11564608.27 11564608.40 11564608.54 0.0512 0.0044

Moon 26956-08-24 11:45 G 11566772.84 11566772.99 11566773.13 0.2663 0.0214

Earth 26956-08-24 13:12 G 11566772.90 11566773.05 11566773.19 0.2662 0.0304 *

Jupiter 26956-11-19 14:38 G 11566860.00 11566860.11 11566860.23 0.0513 0.0376

Jupiter 26957-02-17 18:14 G 11566950.16 11566950.26 11566950.37 0.0516 0.0393

Mars 26957-08-16 08:09 G 11567129.70 11567129.84 11567129.99 0.1828 0.0028

Mars 26958-06-08 20:53 G 11567426.25 11567426.37 11567426.49 0.1716 0.0622

Moon 26959-02-24 16:19 G 11567687.07 11567687.18 11567687.30 0.2673 0.0446

Earth 26959-02-24 17:02 G 11567687.10 11567687.21 11567687.33 0.2669 0.0507 *

Saturn 26960-08-06 01:41 G 11568215.51 11568215.57 11568215.64 0.0265 0.0232

Saturn 26960-11-02 12:57 G 11568303.93 11568304.04 11568304.17 0.0265 0.0139

Saturn 26961-01-30 00:29 G 11568392.38 11568392.52 11568392.66 0.0265 0.0044

Saturn 26961-04-28 12:14 G 11568480.87 11568481.01 11568481.15 0.0265 0.0053

Saturn 26961-07-26 00:00 G 11568569.38 11568569.50 11568569.62 0.0265 0.0151

Saturn 26961-10-22 12:00 G 11568657.96 11568658.00 11568658.05 0.0265 0.0250

Jupiter 26962-07-10 01:26 G 11568918.43 11568918.56 11568918.69 0.0513 0.0105

Jupiter 26962-10-07 09:21 G 11569007.86 11569007.89 11569007.94 0.0510 0.0487

Uranus 26964-11-03 07:26 G 11569765.76 11569765.81 11569765.87 0.0133 0.0125

Uranus 26965-01-30 13:12 G 11569853.94 11569854.05 11569854.16 0.0133 0.0104

Uranus 26965-04-28 18:29 G 11569942.15 11569942.27 11569942.42 0.0133 0.0083

Uranus 26965-07-26 00:00 G 11570030.36 11570030.50 11570030.66 0.0133 0.0062

Uranus 26965-10-22 05:31 G 11570118.58 11570118.73 11570118.90 0.0133 0.0041

Uranus 26966-01-18 11:02 G 11570206.80 11570206.96 11570207.14 0.0133 0.0020

Uranus 26966-04-16 16:33 G 11570295.02 11570295.19 11570295.36 0.0133 0.0002

Uranus 26966-07-13 21:50 G 11570383.25 11570383.41 11570383.58 0.0133 0.0023

Uranus 26966-10-10 03:07 G 11570471.48 11570471.63 11570471.80 0.0133 0.0044

Venus 26966-10-12 15:50 G 11570474.05 11570474.16 11570474.28 0.3691 0.1614

Uranus 26967-01-06 08:24 G 11570559.71 11570559.85 11570560.00 0.0133 0.0064

Mars 26967-01-06 10:33 G 11570559.85 11570559.94 11570560.03 0.1819 0.1415 *

Uranus 26967-04-04 13:26 G 11570647.94 11570648.06 11570648.20 0.0133 0.0085

Uranus 26967-07-01 18:43 G 11570736.19 11570736.28 11570736.39 0.0133 0.0104

Uranus 26967-09-27 23:45 G 11570824.45 11570824.49 11570824.56 0.0133 0.0124

Mars 26967-10-30 05:17 G 11570856.66 11570856.72 11570856.78 0.1723 0.1514

Venus 26968-04-24 19:12 G 11571034.22 11571034.30 11571034.38 0.3679 0.2624

Jupiter 26968-12-06 16:33 G 11571260.04 11571260.19 11571260.35 0.0515 0.0195

Moon 26969-08-27 15:21 G 11571524.10 11571524.14 11571524.18 0.2667 0.2561

Moon 26972-02-27 11:31 G 11572437.91 11572437.98 11572438.06 0.2675 0.1989

Earth 26972-02-27 12:00 G 11572437.92 11572438.00 11572438.07 0.2669 0.2021 *

Venus 26972-04-27 14:09 G 11572497.97 11572498.09 11572498.21 0.3692 0.0777

Venus 26973-11-08 14:24 G 11573057.98 11573058.10 11573058.21 0.3679 0.0805

Jupiter 26974-04-28 05:31 G 11573228.61 11573228.73 11573228.84 0.0514 0.0244

Jupiter 26974-07-26 13:26 G 11573317.96 11573318.06 11573318.16 0.0511 0.0346

Saturn 26975-09-06 04:33 G 11573724.54 11573724.69 11573724.84 0.0295 0.0132

Saturn 26975-12-04 01:26 G 11573813.40 11573813.56 11573813.73 0.0295 0.0030

Saturn 26976-03-01 22:05 G 11573902.29 11573902.42 11573902.55 0.0295 0.0186

Venus 26977-11-11 11:45 G 11574521.93 11574521.99 11574522.06 0.3693 0.3035

Moon 26979-02-20 08:24 G 11574987.79 11574987.85 11574987.91 0.2663 0.2244

Earth 26979-02-20 08:53 G 11574987.80 11574987.87 11574987.93 0.2669 0.2126 *

Mars 26979-02-25 04:33 G 11574992.61 11574992.69 11574992.78 0.1701 0.1298

Venus 26979-05-25 09:36 G 11575081.79 11575081.90 11575082.01 0.3678 0.1115

Jupiter 26980-09-24 15:21 G 11575569.97 11575570.14 11575570.31 0.0515 0.0007

Neptune 26983-12-16 06:00 G 11576747.71 11576747.75 11576747.80 0.0088 0.0083

Neptune 26984-03-13 07:26 G 11576835.75 11576835.81 11576835.89 0.0088 0.0076

Neptune 26984-06-09 08:53 G 11576923.80 11576923.87 11576923.97 0.0088 0.0069

Neptune 26984-09-05 10:33 G 11577011.85 11577011.94 11577012.05 0.0088 0.0061

Neptune 26984-12-02 12:00 G 11577099.90 11577100.00 11577100.12 0.0088 0.0055

Venus 26984-12-08 05:17 G 11577105.65 11577105.72 11577105.78 0.3678 0.3088

Neptune 26985-02-28 13:41 G 11577187.96 11577188.07 11577188.20 0.0088 0.0047

Neptune 26985-05-27 15:21 G 11577276.02 11577276.14 11577276.27 0.0088 0.0040

Neptune 26985-08-23 17:02 G 11577364.08 11577364.21 11577364.34 0.0088 0.0032

Neptune 26985-11-19 18:29 G 11577452.14 11577452.27 11577452.41 0.0088 0.0025

Jupiter 26986-02-14 09:36 G 11577538.82 11577538.90 11577538.99 0.0515 0.0380

Neptune 26986-02-15 20:09 G 11577540.20 11577540.34 11577540.48 0.0088 0.0018

Jupiter 26986-05-14 17:17 G 11577628.10 11577628.22 11577628.35 0.0512 0.0208

Neptune 26986-05-14 21:50 G 11577628.27 11577628.41 11577628.55 0.0088 0.0011 *

Neptune 26986-08-10 23:31 G 11577716.33 11577716.48 11577716.62 0.0088 0.0004

Neptune 26986-11-07 00:57 G 11577804.40 11577804.54 11577804.69 0.0088 0.0005

Neptune 26987-02-03 02:38 G 11577892.47 11577892.61 11577892.75 0.0088 0.0012

Neptune 26987-05-02 04:19 G 11577980.54 11577980.68 11577980.82 0.0088 0.0019

Neptune 26987-07-29 05:45 G 11578068.61 11578068.74 11578068.89 0.0088 0.0027

Mars 26987-09-25 06:00 G 11578126.67 11578126.75 11578126.83 0.1837 0.1508

Neptune 26987-10-25 07:41 G 11578156.68 11578156.82 11578156.95 0.0088 0.0034

Neptune 26988-01-21 09:07 G 11578244.76 11578244.88 11578245.01 0.0088 0.0041

Neptune 26988-04-18 10:48 G 11578332.83 11578332.95 11578333.07 0.0088 0.0049

Neptune 26988-07-15 12:14 G 11578420.91 11578421.01 11578421.13 0.0088 0.0056

Mars 26988-07-17 12:43 G 11578422.91 11578423.03 11578423.16 0.1708 0.0408

Neptune 26988-10-11 14:09 G 11578508.99 11578509.09 11578509.19 0.0088 0.0063

Neptune 26989-01-07 15:36 G 11578597.08 11578597.15 11578597.25 0.0088 0.0071

Neptune 26989-04-05 17:31 G 11578685.17 11578685.23 11578685.30 0.0088 0.0078

Neptune 26989-07-02 18:57 G 11578773.27 11578773.29 11578773.33 0.0088 0.0086

Moon 26989-08-22 14:38 G 11578824.00 11578824.11 11578824.22 0.2661 0.1782

Earth 26989-08-22 15:50 G 11578824.05 11578824.16 11578824.28 0.2663 0.1686 *

Saturn 26989-12-24 03:21 G 11578947.64 11578947.64 11578947.65 0.0265 0.0265

Saturn 26990-03-22 14:24 G 11579036.00 11579036.10 11579036.21 0.0265 0.0173

Saturn 26990-06-19 01:55 G 11579124.45 11579124.58 11579124.72 0.0265 0.0079

Saturn 26990-09-15 13:26 G 11579212.92 11579213.06 11579213.21 0.0265 0.0018

Saturn 26990-12-13 01:12 G 11579301.42 11579301.55 11579301.68 0.0265 0.0114

Saturn 26991-03-11 13:12 G 11579389.97 11579390.05 11579390.13 0.0265 0.0213

Moon 26992-02-23 02:38 G 11579738.50 11579738.61 11579738.72 0.2668 0.0709

Earth 26992-02-23 03:21 G 11579738.53 11579738.64 11579738.75 0.2669 0.0671 *

Jupiter 26992-07-13 14:09 G 11579879.93 11579880.09 11579880.25 0.0514 0.0185

Mars 26997-02-14 08:38 G 11581556.71 11581556.86 11581557.00 0.1828 0.0145

Mars 26997-12-07 20:53 G 11581853.25 11581853.37 11581853.50 0.1715 0.0501

Jupiter 26998-03-02 21:21 G 11581938.25 11581938.39 11581938.52 0.0512 0.0065

28TH MILLENNIUM CE

This is a list of transits of Mercury in the 28th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	**27002-08-26 18:00**	**G**	**11583575.11**	**11583575.25**	**11583575.39**	**0.2663**	**0.0529**	
Earth	**27002-08-26 19:26**	**G**	**11583575.17**	**11583575.31**	**11583575.45**	**0.2662**	**0.0801**	*
Jupiter	**27004-05-02 13:12**	**G**	**11584189.94**	**11584190.05**	**11584190.18**	**0.0513**	**0.0366**	
Jupiter	**27004-07-31 17:02**	**G**	**11584280.11**	**11584280.21**	**11584280.32**	**0.0517**	**0.0404**	
Saturn	**27005-01-24 00:57**	**G**	**11584456.42**	**11584456.54**	**11584456.67**	**0.0295**	**0.0199**	
Moon	**27005-02-25 21:21**	**G**	**11584489.28**	**11584489.39**	**11584489.50**	**0.2673**	**0.0670**	
Earth	**27005-02-25 22:05**	**G**	**11584489.31**	**11584489.42**	**11584489.53**	**0.2669**	**0.0817**	*
Saturn	**27005-04-22 22:19**	**G**	**11584545.26**	**11584545.43**	**11584545.60**	**0.0295**	**0.0037**	
Saturn	**27005-07-20 18:57**	**G**	**11584634.14**	**11584634.29**	**11584634.44**	**0.0295**	**0.0123**	
Saturn	**27005-10-17 15:07**	**G**	**11584723.08**	**11584723.13**	**11584723.19**	**0.0295**	**0.0277**	
Mars	**27006-07-08 10:48**	**G**	**11584986.85**	**11584986.95**	**11584987.06**	**0.1819**	**0.1248**	
Uranus	**27007-04-29 12:14**	**G**	**11585281.95**	**11585282.01**	**11585282.08**	**0.0145**	**0.0126**	
Mars	**27007-05-01 05:17**	**G**	**11585283.65**	**11585283.72**	**11585283.79**	**0.1723**	**0.1393**	
Uranus	**27007-07-26 16:33**	**G**	**11585370.10**	**11585370.19**	**11585370.29**	**0.0145**	**0.0104**	
Uranus	**27007-10-22 20:53**	**G**	**11585458.26**	**11585458.37**	**11585458.50**	**0.0145**	**0.0082**	
Uranus	**27008-01-19 01:26**	**G**	**11585546.43**	**11585546.56**	**11585546.69**	**0.0145**	**0.0060**	
Uranus	**27008-04-16 06:00**	**G**	**11585634.61**	**11585634.75**	**11585634.89**	**0.0145**	**0.0037**	
Uranus	**27008-07-13 10:33**	**G**	**11585722.79**	**11585722.94**	**11585723.08**	**0.0145**	**0.0014**	

Uranus 27008-10-09 15:07 G 11585810.98 11585811.13 11585811.27 0.0145 0.0009

Uranus 27009-01-05 19:41 G 11585899.18 11585899.32 11585899.46 0.0145 0.0032

Uranus 27009-04-04 00:14 G 11585987.38 11585987.51 11585987.65 0.0145 0.0055

Uranus 27009-07-01 05:02 G 11586075.58 11586075.71 11586075.83 0.0145 0.0078

Uranus 27009-09-27 09:36 G 11586163.80 11586163.90 11586164.01 0.0145 0.0102

Jupiter 27009-12-21 00:14 G 11586248.38 11586248.51 11586248.64 0.0513 0.0095

Uranus 27009-12-24 14:24 G 11586252.03 11586252.10 11586252.17 0.0145 0.0126

Jupiter 27010-03-20 08:24 G 11586337.82 11586337.85 11586337.88 0.0510 0.0495

Jupiter 27016-05-19 16:19 G 11588590.03 11588590.18 11588590.33 0.0516 0.0219

Pluto 27016-10-25 23:17 G 11588749.37 11588749.47 11588749.59 0.0074 0.0061

Pluto 27017-01-22 01:41 G 11588837.43 11588837.57 11588837.75 0.0074 0.0044

Pluto 27017-04-20 04:19 G 11588925.51 11588925.68 11588925.88 0.0074 0.0027

Pluto 27017-07-17 06:57 G 11589013.60 11589013.79 11589014.00 0.0074 0.0010

Pluto 27017-10-13 09:50 G 11589101.71 11589101.91 11589102.10 0.0073 0.0008

Venus 27017-11-03 16:48 G 11589123.14 11589123.20 11589123.25 0.3691 0.3280

Pluto 27018-01-09 12:14 G 11589189.82 11589190.01 11589190.20 0.0073 0.0025

Moon 27018-02-28 16:48 G 11589240.15 11589240.20 11589240.25 0.2676 0.2351

Earth 27018-02-28 16:48 G 11589240.15 11589240.20 11589240.26 0.2669 0.2336 *

Pluto 27018-04-07 14:38 G 11589277.95 11589278.11 11589278.28 0.0073 0.0042

Pluto 27018-07-04 17:02 G 11589366.10 11589366.21 11589366.34 0.0073 0.0058

Mars 27018-08-27 04:48 G 11589419.63 11589419.70 11589419.77 0.1701 0.1422

Saturn 27019-08-10 17:31 G 11589768.13 11589768.23 11589768.32 0.0265 0.0197

Saturn 27019-11-07 04:33 G 11589856.57 11589856.69 11589856.83 0.0265 0.0103

Saturn 27020-02-03 16:19 G 11589945.03 11589945.18 11589945.32 0.0265 0.0009

Saturn 27020-05-02 04:05 G 11590033.53 11590033.67 11590033.80 0.0265 0.0091

Saturn 27020-07-29 15:50 G 11590122.06 11590122.16 11590122.26 0.0265 0.0189

Jupiter 27021-10-09 04:05 G 11590558.55 11590558.67 11590558.78 0.0514 0.0242

Jupiter 27022-01-06 11:45 G 11590647.90 11590647.99 11590648.09 0.0511 0.0347

Venus 27023-05-20 15:07 G 11591147.01 11591147.13 11591147.26 0.3692 0.0814

Venus 27024-11-30 17:31 G 11591707.14 11591707.23 11591707.33 0.3679 0.2022

Moon 27025-02-21 13:12 G 11591789.97 11591790.05 11591790.13 0.2663 0.1830

Earth 27025-02-21 13:41 G 11591789.99 11591790.07 11591790.15 0.2669 0.1823 *

Mars 27027-03-27 06:14 G 11592553.70 11592553.76 11592553.82 0.1837 0.1669

Mars 27028-01-17 12:57 G 11592849.91 11592850.04 11592850.16 0.1708 0.0527

Jupiter 27028-03-07 14:24 G 11592899.93 11592900.10 11592900.27 0.0514 0.0022

Venus 27028-12-03 13:12 G 11593170.94 11593171.05 11593171.17 0.3692 0.1550

Venus 27030-06-16 12:43 G 11593730.91 11593731.03 11593731.15 0.3679 0.0159

Jupiter 27033-07-28 07:55 G 11594868.75 11594868.83 11594868.92 0.0515 0.0382

Jupiter 27033-10-25 15:50 G 11594958.03 11594958.16 11594958.28 0.0512 0.0206

Saturn 27034-06-13 00:57 G 11595188.45 11595188.54 11595188.64 0.0295 0.0242

Saturn 27034-09-09 22:33 G 11595277.27 11595277.44 11595277.60 0.0295 0.0078

Saturn 27034-12-07 19:26 G 11595366.15 11595366.31 11595366.47 0.0295 0.0082

Saturn 27035-03-06 15:36 G 11595455.06 11595455.15 11595455.25 0.0295 0.0238

Moon 27035-08-24 20:38 G 11595626.23 11595626.36 11595626.48 0.2661 0.1446

Earth 27035-08-24 22:05 G 11595626.29 11595626.42 11595626.55 0.2663 0.1190 *

Venus 27035-12-31 08:09 G 11595754.73 11595754.84 11595754.94 0.3678 0.1767

Mars 27036-08-16 08:53 G 11595983.73 11595983.87 11595984.01 0.1828 0.0297

Mars 27037-06-08 21:07 G 11596280.26 11596280.38 11596280.51 0.1715 0.0367

Moon 27038-02-24 07:26 G 11596540.70 11596540.81 11596540.93 0.2669 0.0544

Earth 27038-02-24 08:24 G 11596540.73 11596540.85 11596540.96 0.2669 0.0373 *

Jupiter 27039-12-25 12:43 G 11597209.87 11597210.03 11597210.19 0.0514 0.0174

Jupiter 27045-08-13 19:41 G 11599268.19 11599268.32 11599268.46 0.0512 0.0068

Mars 27046-01-06 11:31 G 11599413.86 11599413.98 11599414.10 0.1820 0.1063

Mars 27046-10-30 05:31 G 11599710.64 11599710.73 11599710.81 0.1722 0.1269

Moon 27048-08-27 00:14 G 11600377.38 11600377.51 11600377.64 0.2665 0.1212

Earth 27048-08-27 01:26 G 11600377.43 11600377.56 11600377.69 0.2662 0.1274 *

Uranus 27048-11-24 14:09 G 11600467.03 11600467.09 11600467.18 0.0133 0.0121

Saturn 27048-12-27 19:12 G 11600500.24 11600500.30 11600500.37 0.0265 0.0227

Uranus 27049-02-20 20:09 G 11600555.22 11600555.34 11600555.45 0.0133 0.0099

Saturn 27049-03-26 06:29 G 11600588.65 11600588.77 11600588.89 0.0265 0.0134

Uranus 27049-05-20 01:26 G 11600643.43 11600643.56 11600643.71 0.0133 0.0078

Saturn 27049-06-22 18:00 G 11600677.11 11600677.25 11600677.39 0.0265 0.0039

Uranus 27049-08-16 06:57 G 11600731.65 11600731.79 11600731.96 0.0133 0.0057

Saturn 27049-09-19 05:31 G 11600765.59 11600765.73 11600765.87 0.0265 0.0057

Uranus 27049-11-12 12:43 G 11600819.86 11600820.03 11600820.20 0.0133 0.0035

Saturn 27049-12-16 17:17 G 11600854.11 11600854.22 11600854.34 0.0265 0.0155

Uranus 27050-02-08 18:00 G 11600908.09 11600908.25 11600908.43 0.0133 0.0015

Saturn 27050-03-15 05:31 G 11600942.69 11600942.73 11600942.77 0.0265 0.0255

Uranus 27050-05-07 23:31 G 11600996.31 11600996.48 11600996.65 0.0133 0.0007

Uranus 27050-08-04 04:48 G 11601084.54 11601084.70 11601084.87 0.0133 0.0028

Uranus 27050-10-31 10:05 G 11601172.77 11601172.92 11601173.08 0.0133 0.0049

Uranus 27051-01-27 15:21 G 11601261.00 11601261.14 11601261.29 0.0133 0.0069

Moon 27051-02-27 02:24 G 11601291.50 11601291.60 11601291.70 0.2673 0.1097

Earth 27051-02-27 03:07 G 11601291.52 11601291.63 11601291.73 0.2669 0.1131 *

Uranus 27051-04-25 20:24 G 11601349.24 11601349.35 11601349.49 0.0133 0.0090

Uranus 27051-07-23 01:41 G 11601437.49 11601437.57 11601437.67 0.0133 0.0109

Jupiter 27051-10-13 11:17 G 11601519.85 11601519.97 11601520.09 0.0513 0.0366

Uranus 27051-10-19 06:43 G 11601525.76 11601525.78 11601525.83 0.0133 0.0129

Jupiter 27052-01-11 15:07 G 11601610.03 11601610.13 11601610.23 0.0516 0.0404

Jupiter 27057-06-01 23:45 G 11603578.35 11603578.49 11603578.62 0.0513 0.0077

Mars 27058-02-25 04:48 G 11603846.65 11603846.70 11603846.75 0.1701 0.1549

Jupiter 27063-10-30 14:38 G 11605919.96 11605920.11 11605920.26 0.0516 0.0227

Saturn 27064-01-27 19:12 G 11606009.15 11606009.30 11606009.45 0.0295 0.0143

Moon 27064-02-29 21:50 G 11606042.39 11606042.41 11606042.43 0.2677 0.2617

Earth 27064-02-29 21:50 G 11606042.40 11606042.41 11606042.42 0.2669 0.2653 *

Saturn 27064-04-25 16:19 G 11606098.01 11606098.18 11606098.35 0.0295 0.0019

Saturn 27064-07-23 12:43 G 11606186.91 11606187.03 11606187.17 0.0295 0.0177

Mars 27066-09-25 06:43 G 11606980.78 11606980.78 11606980.78 0.1837 0.1837

Mars 27067-07-18 12:57 G 11607276.92 11607277.04 11607277.16 0.1708 0.0658

Neptune 27067-09-06 07:12 G 11607326.78 11607326.80 11607326.86 0.0089 0.0087

Neptune 27067-12-03 10:19 G 11607414.86 11607414.93 11607415.03 0.0089 0.0077

Neptune 27068-02-29 13:12 G 11607502.95 11607503.05 11607503.18 0.0089 0.0068

Neptune 27068-05-27 16:19 G 11607591.05 11607591.18 11607591.32 0.0089 0.0058

Neptune 27068-08-23 19:12 G 11607679.16 11607679.30 11607679.46 0.0089 0.0049

Neptune 27068-11-19 22:19 G 11607767.27 11607767.43 11607767.59 0.0089 0.0039

Neptune 27069-02-16 00:57 G 11607855.38 11607855.54 11607855.72 0.0089 0.0031

Jupiter 27069-03-21 02:38 G 11607888.50 11607888.61 11607888.73 0.0514 0.0235

Neptune 27069-05-15 03:50 G 11607943.50 11607943.66 11607943.84 0.0089 0.0022

Jupiter 27069-06-18 10:33 G 11607977.84 11607977.94 11607978.04 0.0511 0.0354

Neptune 27069-08-11 06:57 G 11608031.62 11608031.79 11608031.97 0.0089 0.0011

Neptune 27069-11-07 09:50 G 11608119.73 11608119.91 11608120.09 0.0089 0.0002

Neptune 27070-02-03 12:43 G 11608207.85 11608208.03 11608208.20 0.0089 0.0007

Neptune 27070-05-02 15:36 G 11608295.97 11608296.15 11608296.32 0.0089 0.0016

Neptune 27070-07-29 18:14 G 11608384.10 11608384.26 11608384.43 0.0089 0.0026

Neptune 27070-10-25 20:53 G 11608472.22 11608472.37 11608472.54 0.0089 0.0035

Neptune 27071-01-21 23:45 G 11608560.35 11608560.49 11608560.65 0.0089 0.0044

Moon 27071-02-22 18:00 G 11608592.16 11608592.25 11608592.34 0.2664 0.1635

Earth 27071-02-22 18:43 G 11608592.18 11608592.28 11608592.37 0.2669 0.1526 *

Neptune 27071-04-20 02:24 G 11608648.48 11608648.60 11608648.76 0.0089 0.0054

Neptune 27071-07-17 05:17 G 11608736.61 11608736.72 11608736.86 0.0089 0.0062

Neptune 27071-10-13 07:55 G 11608824.74 11608824.83 11608824.95 0.0089 0.0072

Neptune 27072-01-09 10:48 G 11608912.89 11608912.95 11608913.04 0.0089 0.0080

Neptune 27072-04-06 13:41 G 11609001.07 11609001.07 11609001.08 0.0089 0.0089

Venus 27074-06-10 16:05 G 11609796.07 11609796.17 11609796.26 0.3691 0.2460

Jupiter 27075-08-18 13:41 G 11610229.90 11610230.07 11610230.24 0.0515 0.0040

Venus 27075-12-22 21:07 G 11610356.32 11610356.38 11610356.43 0.3680 0.3210

Mars 27076-02-15 09:21 G 11610410.75 11610410.89 11610411.03 0.1828 0.0480

Mars 27076-12-07 21:07 G 11610707.26 11610707.38 11610707.51 0.1715 0.0253

Saturn 27078-05-16 22:05 G 11611232.38 11611232.42 11611232.46 0.0265 0.0252

Saturn 27078-08-13 09:21 G 11611320.78 11611320.89 11611321.00 0.0265 0.0158

Saturn 27078-11-09 20:38 G 11611409.23 11611409.36 11611409.50 0.0265 0.0064

Saturn 27079-02-06 08:24 G 11611497.71 11611497.85 11611497.99 0.0265 0.0033

Saturn 27079-05-05 19:55 G 11611586.21 11611586.33 11611586.46 0.0265 0.0131

Saturn 27079-08-02 07:55 G 11611674.77 11611674.83 11611674.91 0.0265 0.0231

Venus 27079-12-25 14:24 G 11611819.98 11611820.10 11611820.23 0.3692 0.0072

Jupiter 27081-01-07 06:14 G 11612198.68 11612198.76 11612198.85 0.0515 0.0382

Jupiter 27081-04-06 14:09 G 11612287.96 11612288.09 11612288.21 0.0512 0.0205

Venus 27081-07-07 16:05 G 11612380.06 11612380.17 11612380.27 0.3679 0.1406

Moon 27081-08-25 02:38 G 11612428.47 11612428.61 11612428.75 0.2661 0.0832

Earth 27081-08-25 04:19 G 11612428.53 11612428.68 11612428.82 0.2663 0.0696 *

Moon 27084-02-25 12:29 G 11613342.90 11613343.02 11613343.13 0.2670 0.0115

Earth 27084-02-25 13:12 G 11613342.94 11613343.05 11613343.17 0.2669 0.0073 *

Mars 27085-07-07 11:45 G 11613840.86 11613840.99 11613841.11 0.1820 0.0913

Venus 27085-07-10 12:14 G 11613843.92 11613844.01 11613844.11 0.3693 0.2298

Mars 27086-04-30 05:31 G 11614137.64 11614137.73 11614137.83 0.1723 0.1140

Venus 27087-01-21 11:02 G 11614403.85 11614403.96 11614404.08 0.3678 0.0498

Jupiter 27087-06-06 11:31 G 11614539.82 11614539.98 11614540.14 0.0514 0.0162

Uranus 27091-02-20 15:21 G 11615895.12 11615895.14 11615895.18 0.0145 0.0141

Uranus 27091-05-19 19:41 G 11615983.25 11615983.32 11615983.41 0.0145 0.0119

Uranus 27091-08-16 00:14 G 11616071.41 11616071.51 11616071.62 0.0145 0.0097

Uranus 27091-11-12 04:33 G 11616159.58 11616159.69 11616159.82 0.0145 0.0075

Uranus 27092-02-08 09:07 G 11616247.75 11616247.88 11616248.02 0.0145 0.0052

Uranus 27092-05-06 13:41 G 11616335.93 11616336.07 11616336.21 0.0145 0.0030

Uranus 27092-08-02 18:14 G 11616424.11 11616424.26 11616424.40 0.0145 0.0007

Venus 27092-08-06 06:43 G 11616427.69 11616427.78 11616427.86 0.3678 0.2438

Uranus 27092-10-29 22:48 G 11616512.30 11616512.45 11616512.59 0.0145 0.0016

Jupiter 27093-01-23 18:00 G 11616598.11 11616598.25 11616598.38 0.0513 0.0063

Uranus 27093-01-26 03:21 G 11616600.50 11616600.64 11616600.78 0.0145 0.0039

Uranus 27093-04-24 07:55 G 11616688.70 11616688.83 11616688.96 0.0145 0.0063

Saturn 27093-06-15 19:55 G 11616741.20 11616741.33 11616741.46 0.0295 0.0181

Uranus 27093-07-21 12:29 G 11616776.91 11616777.02 11616777.15 0.0145 0.0086

Saturn 27093-09-12 17:02 G 11616830.05 11616830.21 11616830.38 0.0295 0.0020

Uranus 27093-10-17 17:02 G 11616865.13 11616865.21 11616865.32 0.0145 0.0111

Saturn 27093-12-10 13:55 G 11616918.93 11616919.08 11616919.22 0.0295 0.0141

Uranus 27094-01-13 22:05 G 11616953.37 11616953.42 11616953.48 0.0145 0.0133

Saturn 27094-03-09 10:05 G 11617007.92 11617007.92 11617007.92 0.0295 0.0295

Moon 27094-08-28 06:29 G 11617179.65 11617179.77 11617179.89 0.2667 0.1547

Earth 27094-08-28 07:26 G 11617179.70 11617179.81 11617179.92 0.2662 0.1757 *

Moon 27097-02-27 07:26 G 11618093.71 11618093.81 11618093.91 0.2674 0.1321

Earth 27097-02-27 07:55 G 11618093.74 11618093.83 11618093.93 0.2669 0.1444 *

Mars 27097-08-26 05:02 G 11618273.70 11618273.71 11618273.72 0.1701 0.1686

Jupiter 27099-03-25 09:36 G 11618849.79 11618849.90 11618850.03 0.0513 0.0358

Jupiter 27099-06-23 13:26 G 11618939.96 11618940.06 11618940.16 0.0516 0.0411

Earth 27104-02-22 05:02 G 11620643.71 11620643.71 11620643.71 0.2668 0.2661

Jupiter 27104-11-12 22:05 G 11620908.28 11620908.42 11620908.55 0.0513 0.0079

Mars 27107-01-17 13:12 G 11621703.94 11621704.05 11621704.16 0.1708 0.0783

Saturn 27108-01-01 11:31 G 11622052.89 11622052.98 11622053.08 0.0265 0.0187

Saturn 27108-03-29 22:48 G 11622141.32 11622141.45 11622141.59 0.0265 0.0093

Saturn 27108-06-26 10:19 G 11622229.79 11622229.93 11622230.08 0.0265 0.0007

Saturn 27108-09-22 22:05 G 11622318.29 11622318.42 11622318.55 0.0265 0.0100

Saturn 27108-12-20 09:50 G 11622406.82 11622406.91 11622407.01 0.0265 0.0200

Jupiter 27111-04-12 12:14 G 11623249.86 11623250.01 11623250.17 0.0516 0.0222

Mars 27115-08-17 09:50 G 11624837.77 11624837.91 11624838.04 0.1829 0.0648

Mars 27116-06-08 21:21 G 11625134.26 11625134.39 11625134.52 0.1715 0.0117

Jupiter 27116-09-01 01:55 G 11625218.46 11625218.58 11625218.70 0.0514 0.0219

Jupiter 27116-11-29 09:50 G 11625307.82 11625307.91 11625308.00 0.0511 0.0370

Moon 27117-02-23 22:48 G 11625394.35 11625394.45 11625394.55 0.2666 0.1305

Earth 27117-02-23 23:31 G 11625394.38 11625394.48 11625394.58 0.2669 0.1222 *

Saturn 27122-11-03 17:02 G 11627473.12 11627473.21 11627473.31 0.0295 0.0243

Jupiter 27123-01-29 11:45 G 11627559.82 11627559.99 11627560.16 0.0515 0.0042

Saturn 27123-01-31 14:24 G 11627561.94 11627562.10 11627562.27 0.0295 0.0079

Saturn 27123-04-30 11:31 G 11627650.82 11627650.98 11627651.14 0.0295 0.0082

Saturn 27123-07-28 07:41 G 11627739.73 11627739.82 11627739.92 0.0295 0.0238

Mars 27125-01-06 12:14 G 11628267.88 11628268.01 11628268.14 0.1820 0.0733

Mars 27125-10-30 05:45 G 11628564.63 11628564.74 11628564.84 0.1722 0.1020

Moon 27127-08-27 08:53 G 11629230.73 11629230.87 11629231.02 0.2662 0.0409

Earth 27127-08-27 10:19 G 11629230.79 11629230.93 11629231.08 0.2663 0.0205 *

Jupiter 27128-06-20 05:02 G 11629528.62 11629528.71 11629528.80 0.0515 0.0375

Jupiter 27128-09-17 12:43 G 11629617.91 11629618.03 11629618.15 0.0511 0.0210

Moon 27130-02-26 17:31 G 11630145.11 11630145.23 11630145.34 0.2670 0.0139

Earth 27130-02-26 18:14 G 11630145.14 11630145.26 11630145.37 0.2669 0.0256 *

Venus 27131-01-16 15:21 G 11630469.03 11630469.14 11630469.25 0.3692 0.1641

Venus 27132-07-29 19:26 G 11631029.23 11631029.31 11631029.39 0.3680 0.2608

Uranus 27132-12-15 21:21 G 11631168.32 11631168.39 11631168.49 0.0133 0.0115

Uranus 27133-03-14 03:07 G 11631256.52 11631256.63 11631256.76 0.0133 0.0093

Uranus 27133-06-10 08:38 G 11631344.73 11631344.86 11631345.02 0.0133 0.0072

Uranus 27133-09-06 14:24 G 11631432.94 11631433.10 11631433.26 0.0133 0.0050

Uranus 27133-12-03 19:55 G 11631521.16 11631521.33 11631521.50 0.0133 0.0029

Uranus 27134-03-02 01:26 G 11631609.39 11631609.56 11631609.73 0.0133 0.0008

Uranus 27134-05-29 06:43 G 11631697.61 11631697.78 11631697.95 0.0133 0.0013

Uranus 27134-08-25 12:00 G 11631785.84 11631786.00 11631786.17 0.0133 0.0034

Jupiter 27134-11-17 10:33 G 11631869.78 11631869.94 11631870.10 0.0514 0.0147

Uranus 27134-11-21 17:31 G 11631874.07 11631874.23 11631874.38 0.0133 0.0055

Uranus 27135-02-17 22:33 G 11631962.31 11631962.44 11631962.59 0.0133 0.0075

Uranus 27135-05-17 03:50 G 11632050.55 11632050.66 11632050.78 0.0133 0.0095

Uranus 27135-08-13 08:53 G 11632138.80 11632138.87 11632138.96 0.0133 0.0115

Venus 27136-08-01 13:41 G 11632492.94 11632493.07 11632493.19 0.3692 0.0773

Saturn 27137-05-20 14:09 G 11632785.01 11632785.09 11632785.18 0.0266 0.0212

Saturn 27137-08-17 01:41 G 11632873.44 11632873.57 11632873.69 0.0265 0.0117

Saturn 27137-11-13 13:12 G 11632961.91 11632962.05 11632962.19 0.0265 0.0022

Saturn 27138-02-10 00:43 G 11633050.40 11633050.53 11633050.67 0.0265 0.0076

Venus 27138-02-12 14:24 G 11633052.98 11633053.10 11633053.21 0.3679 0.0778

Saturn 27138-05-09 12:43 G 11633138.92 11633139.03 11633139.14 0.0265 0.0175

Jupiter 27140-07-06 16:19 G 11633928.04 11633928.18 11633928.31 0.0512 0.0062

Moon 27140-08-29 12:29 G 11633981.94 11633982.02 11633982.11 0.2668 0.2176

Earth 27140-08-29 13:41 G 11633981.99 11633982.07 11633982.14 0.2662 0.2232 *

Venus 27142-02-15 11:17 G 11634516.91 11634516.97 11634517.04 0.3693 0.3054

Moon 27143-03-01 12:29 G 11634895.94 11634896.02 11634896.11 0.2675 0.1776

Earth 27143-03-01 12:57 G 11634895.95 11634896.04 11634896.12 0.2669 0.1753 *

Venus 27143-08-29 09:36 G 11635076.79 11635076.90 11635077.01 0.3678 0.1133

Mars 27146-07-18 13:26 G 11636130.95 11636131.06 11636131.16 0.1708 0.0915

Jupiter 27146-09-05 08:09 G 11636179.72 11636179.84 11636179.97 0.0513 0.0350

Jupiter 27146-12-04 12:00 G 11636269.90 11636270.00 11636270.10 0.0516 0.0418

Neptune 27148-06-17 04:05 G 11636830.65 11636830.67 11636830.70 0.0088 0.0086

Neptune 27148-09-13 05:31 G 11636918.68 11636918.73 11636918.80 0.0088 0.0079

Neptune 27148-12-10 06:57 G 11637006.73 11637006.79 11637006.88 0.0088 0.0073

Neptune 27149-03-08 08:38 G 11637094.77 11637094.86 11637094.96 0.0088 0.0065

Venus 27149-03-14 05:17 G 11637100.66 11637100.72 11637100.78 0.3678 0.3119

Neptune 27149-06-04 10:05 G 11637182.83 11637182.92 11637183.04 0.0088 0.0058

Neptune 27149-08-31 11:45 G 11637270.88 11637270.99 11637271.11 0.0088 0.0051

Neptune 27149-11-27 13:26 G 11637358.94 11637359.06 11637359.18 0.0088 0.0044

Moon 27150-02-22 09:36 G 11637445.86 11637445.90 11637445.95 0.2662 0.2425

Earth 27150-02-22 09:50 G 11637445.86 11637445.91 11637445.96 0.2668 0.2367 *

Neptune 27150-02-23 14:53 G 11637447.00 11637447.12 11637447.26 0.0088 0.0037

Neptune 27150-05-22 16:33 G 11637535.06 11637535.19 11637535.33 0.0088 0.0029

Neptune 27150-08-18 18:00 G 11637623.12 11637623.25 11637623.40 0.0088 0.0023

Neptune 27150-11-14 19:41 G 11637711.19 11637711.32 11637711.47 0.0088 0.0015

Neptune 27151-02-10 21:21 G 11637799.25 11637799.39 11637799.53 0.0088 0.0007

Neptune 27151-05-09 23:02 G 11637887.32 11637887.46 11637887.60 0.0088 0.0000

Neptune 27151-08-06 00:43 G 11637975.38 11637975.53 11637975.67 0.0088 0.0008

Neptune 27151-11-02 02:09 G 11638063.45 11638063.59 11638063.73 0.0088 0.0015

Neptune 27152-01-29 03:50 G 11638151.52 11638151.66 11638151.80 0.0088 0.0022

Saturn 27152-03-22 18:14 G 11638205.21 11638205.26 11638205.31 0.0295 0.0278

Jupiter 27152-04-24 19:55 G 11638238.20 11638238.33 11638238.47 0.0513 0.0085

Neptune 27152-04-26 05:31 G 11638239.59 11638239.73 11638239.86 0.0088 0.0029

Saturn 27152-06-19 15:50 G 11638294.00 11638294.16 11638294.32 0.0295 0.0113

Jupiter 27152-07-23 04:05 G 11638327.67 11638327.67 11638327.68 0.0510 0.0508

Neptune 27152-07-23 06:57 G 11638327.67 11638327.79 11638327.93 0.0088 0.0037 *

Saturn 27152-09-16 12:43 G 11638382.87 11638383.03 11638383.20 0.0295 0.0049

Neptune 27152-10-19 08:38 G 11638415.74 11638415.86 11638415.99 0.0088 0.0044

Saturn 27152-12-14 09:07 G 11638471.77 11638471.88 11638472.01 0.0295 0.0206

Neptune 27153-01-15 10:05 G 11638503.82 11638503.92 11638504.05 0.0088 0.0052

Neptune 27153-04-13 11:45 G 11638591.90 11638591.99 11638592.11 0.0088 0.0060

Neptune 27153-07-10 13:41 G 11638679.98 11638680.07 11638680.17 0.0088 0.0067

Neptune 27153-10-06 15:07 G 11638768.07 11638768.13 11638768.22 0.0088 0.0074

Neptune 27154-01-02 17:02 G 11638856.16 11638856.21 11638856.26 0.0088 0.0082

Mars 27155-02-15 10:05 G 11639264.79 11639264.92 11639265.05 0.1829 0.0801

Mars 27155-12-08 21:36 G 11639561.27 11639561.40 11639561.53 0.1715 0.0020

Jupiter 27158-09-22 10:33 G 11640579.79 11640579.94 11640580.09 0.0515 0.0226

Moon 27160-08-24 11:31 G 11641281.91 11641281.98 11641282.05 0.2660 0.2312

Earth 27160-08-24 12:57 G 11641281.96 11641282.04 11641282.12 0.2663 0.2214 *

Moon 27163-02-25 03:36 G 11642196.55 11642196.65 11642196.76 0.2667 0.1017

Earth 27163-02-25 04:33 G 11642196.58 11642196.69 11642196.79 0.2669 0.0924 *

Jupiter 27164-02-12 00:00 G 11642548.38 11642548.50 11642548.62 0.0514 0.0224

Jupiter 27164-05-11 07:55 G 11642637.74 11642637.83 11642637.93 0.0511 0.0366

Mars 27164-07-07 12:43 G 11642694.89 11642695.03 11642695.17 0.1820 0.0560

Mars 27165-04-30 05:45 G 11642991.63 11642991.74 11642991.85 0.1722 0.0895

Saturn 27166-10-07 16:48 G 11643517.15 11643517.20 11643517.27 0.0265 0.0237

Saturn 27167-01-04 04:05 G 11643605.56 11643605.67 11643605.80 0.0265 0.0143

Saturn 27167-04-02 15:36 G 11643694.01 11643694.15 11643694.29 0.0265 0.0048

Saturn 27167-06-30 03:07 G 11643782.49 11643782.63 11643782.78 0.0265 0.0050

Saturn 27167-09-26 15:07 G 11643871.01 11643871.13 11643871.25 0.0265 0.0147

Saturn 27167-12-24 02:53 G 11643959.58 11643959.62 11643959.68 0.0265 0.0247

Jupiter 27170-07-11 09:07 G 11644889.71 11644889.88 11644890.05 0.0515 0.0033

Moon 27173-08-27 15:21 G 11646032.99 11646033.14 11646033.28 0.2664 0.0131

Earth 27173-08-27 16:33 G 11646033.05 11646033.19 11646033.34 0.2663 0.0306 *

Uranus 27175-03-13 23:02 G 11646596.41 11646596.46 11646596.52 0.0145 0.0134

Uranus 27175-06-10 03:21 G 11646684.56 11646684.64 11646684.74 0.0145 0.0112

Uranus 27175-09-06 07:41 G 11646772.72 11646772.82 11646772.94 0.0145 0.0090

Jupiter 27175-12-01 04:05 G 11646858.58 11646858.67 11646858.76 0.0515 0.0365

Uranus 27175-12-03 12:14 G 11646860.89 11646861.01 11646861.14 0.0145 0.0068

Moon 27176-02-27 22:19 G 11646947.32 11646947.43 11646947.55 0.2671 0.0499

Earth 27176-02-27 23:02 G 11646947.35 11646947.46 11646947.58 0.2669 0.0563 *

Jupiter 27176-02-28 11:45 G 11646947.87 11646947.99 11646948.11 0.0512 0.0222

Uranus 27176-02-29 16:48 G 11646949.06 11646949.20 11646949.34 0.0145 0.0045

Uranus 27176-05-27 21:07 G 11647037.24 11647037.38 11647037.53 0.0145 0.0023

Uranus 27176-08-24 01:55 G 11647125.43 11647125.58 11647125.72 0.0145 0.0004

Uranus 27176-11-20 06:14 G 11647213.62 11647213.76 11647213.91 0.0145 0.0024

Uranus 27177-02-16 10:48 G 11647301.82 11647301.95 11647302.10 0.0145 0.0047

Uranus 27177-05-15 15:36 G 11647390.02 11647390.15 11647390.28 0.0145 0.0070

Uranus 27177-08-11 20:09 G 11647478.23 11647478.34 11647478.46 0.0145 0.0094

Uranus 27177-11-08 00:57 G 11647566.46 11647566.54 11647566.63 0.0145 0.0117

Uranus 27178-02-04 05:31 G 11647654.71 11647654.73 11647654.77 0.0145 0.0141

Pluto 27179-01-10 11:02 G 11647994.91 11647994.96 11647995.03 0.0070 0.0062

Pluto 27179-04-08 11:31 G 11648082.91 11648082.98 11648083.08 0.0070 0.0053

Pluto 27179-07-05 12:14 G 11648170.91 11648171.01 11648171.12 0.0070 0.0043

Pluto 27179-10-01 12:57 G 11648258.93 11648259.04 11648259.15 0.0070 0.0033

Pluto 27179-12-28 13:26 G 11648346.94 11648347.06 11648347.19 0.0070 0.0024

Pluto 27180-03-25 13:55 G 11648434.96 11648435.08 11648435.22 0.0070 0.0014

Pluto 27180-06-21 14:38 G 11648522.98 11648523.11 11648523.24 0.0070 0.0004

Pluto 27180-09-17 15:07 G 11648611.01 11648611.13 11648611.27 0.0070 0.0006

Pluto 27180-12-14 15:50 G 11648699.03 11648699.16 11648699.29 0.0071 0.0016

Pluto 27181-03-12 16:19 G 11648787.06 11648787.18 11648787.31 0.0071 0.0026

Pluto 27181-06-08 16:48 G 11648875.10 11648875.20 11648875.32 0.0071 0.0036

Pluto 27181-09-04 17:17 G 11648963.13 11648963.22 11648963.33 0.0071 0.0046

Saturn 27181-11-06 13:26 G 11649025.92 11649026.06 11649026.20 0.0295 0.0171

Pluto 27181-12-01 18:00 G 11649051.18 11649051.25 11649051.34 0.0071 0.0056

Saturn 27182-02-03 10:48 G 11649114.78 11649114.95 11649115.11 0.0295 0.0011

Venus 27182-02-06 16:05 G 11649118.12 11649118.17 11649118.22 0.3691 0.3330

Pluto 27182-02-27 18:29 G 11649139.24 11649139.27 11649139.33 0.0071 0.0066

Jupiter 27182-04-29 08:09 G 11649199.68 11649199.84 11649200.01 0.0514 0.0151

Saturn 27182-05-03 07:12 G 11649203.67 11649203.80 11649203.95 0.0295 0.0151

Mars 27186-01-16 13:26 G 11650557.96 11650558.06 11650558.16 0.1707 0.1040

Moon 27186-08-30 18:43 G 11650784.25 11650784.28 11650784.32 0.2668 0.2555

Venus 27187-08-23 14:38 G 11651141.99 11651142.11 11651142.23 0.3692 0.0829

Jupiter 27187-12-17 14:38 G 11651257.98 11651258.11 11651258.25 0.0512 0.0067

Moon 27189-03-01 17:31 G 11651698.16 11651698.23 11651698.31 0.2676 0.1982

Earth 27189-03-01 18:00 G 11651698.17 11651698.25 11651698.32 0.2669 0.2068 *

Venus 27189-03-05 17:45 G 11651702.14 11651702.24 11651702.34 0.3679 0.1993

Venus 27193-03-08 12:43 G 11653165.92 11653166.03 11653166.15 0.3692 0.1545

Jupiter 27194-02-15 06:43 G 11653509.66 11653509.78 11653509.91 0.0513 0.0341

Jupiter 27194-05-16 10:33 G 11653599.86 11653599.94 11653600.04 0.0516 0.0430

Mars 27194-08-16 10:33 G 11653691.82 11653691.94 11653692.06 0.1829 0.0985

Venus 27194-09-19 12:43 G 11653725.92 11653726.03 11653726.15 0.3679 0.0177

Mars 27195-06-08 21:36 G 11653988.27 11653988.40 11653988.53 0.1715 0.0135

Moon 27196-02-23 14:24 G 11654248.03 11654248.10 11654248.17 0.2663 0.2068

Earth 27196-02-23 14:53 G 11654248.05 11654248.12 11654248.19 0.2668 0.2065 *

Saturn 27196-02-24 19:41 G 11654249.30 11654249.32 11654249.35 0.0266 0.0261

Saturn 27196-05-23 06:57 G 11654337.68 11654337.79 11654337.90 0.0266 0.0168

Saturn 27196-08-19 18:29 G 11654426.13 11654426.27 11654426.40 0.0266 0.0073

Saturn 27196-11-16 06:00 G 11654514.61 11654514.75 11654514.89 0.0266 0.0024

Saturn 27197-02-12 17:45 G 11654603.11 11654603.24 11654603.37 0.0266 0.0122

Saturn 27197-05-12 05:31 G 11654691.66 11654691.73 11654691.81 0.0266 0.0223

Jupiter 27199-10-05 18:14 G 11655568.13 11655568.26 11655568.39 0.0513 0.0086

Jupiter 27200-01-03 02:09 G 11655657.58 11655657.59 11655657.61 0.0510 0.0504

Venus 27200-04-04 08:09 G 11655749.74 11655749.84 11655749.94 0.3678 0.1800

Mars 27204-01-06 12:57 G 11657121.90 11657122.04 11657122.19 0.1820 0.0402

Mars 27204-10-29 06:00 G 11657418.63 11657418.75 11657418.86 0.1722 0.0764

Jupiter 27206-03-04 08:38 G 11657909.71 11657909.86 11657910.01 0.0515 0.0229

Moon 27206-08-25 17:45 G 11658084.14 11658084.24 11658084.34 0.2660 0.1963

Earth 27206-08-25 19:12 G 11658084.19 11658084.30 11658084.41 0.2663 0.1713 *

Moon 27209-02-25 08:38 G 11658998.75 11658998.86 11658998.97 0.2667 0.0751

Earth 27209-02-25 09:21 G 11658998.78 11658998.89 11658999.00 0.2668 0.0616 *

Saturn 27211-03-26 15:07 G 11659758.01 11659758.13 11659758.26 0.0295 0.0202

Saturn 27211-06-23 12:29 G 11659846.86 11659847.02 11659847.19 0.0295 0.0039

Jupiter 27211-07-24 21:50 G 11659878.30 11659878.41 11659878.54 0.0514 0.0233

Saturn 27211-09-20 09:21 G 11659935.74 11659935.89 11659936.04 0.0295 0.0122

Jupiter 27211-10-22 05:45 G 11659967.65 11659967.74 11659967.84 0.0511 0.0358

Saturn 27211-12-18 05:31 G 11660024.68 11660024.73 11660024.79 0.0295 0.0277

Mars 27213-05-28 15:21 G 11660552.12 11660552.14 11660552.17 0.1812 0.1778

Mars 27214-03-21 14:09 G 11660849.06 11660849.09 11660849.12 0.1729 0.1669

Uranus 27216-10-08 23:17 G 11661781.43 11661781.47 11661781.50 0.0133 0.0130

Uranus 27217-01-05 04:33 G 11661869.60 11661869.69 11661869.80 0.0133 0.0109

Uranus 27217-04-03 10:33 G 11661957.81 11661957.94 11661958.07 0.0133 0.0087

Uranus 27217-06-30 15:50 G 11662046.02 11662046.16 11662046.32 0.0133 0.0065

Uranus 27217-09-26 21:21 G 11662134.24 11662134.39 11662134.56 0.0133 0.0044

Jupiter 27217-12-21 06:57 G 11662219.62 11662219.79 11662219.96 0.0514 0.0036

Uranus 27217-12-24 02:53 G 11662222.46 11662222.62 11662222.80 0.0133 0.0024

Uranus 27218-03-22 08:24 G 11662310.68 11662310.85 11662311.03 0.0133 0.0004

Uranus 27218-06-18 13:55 G 11662398.91 11662399.08 11662399.25 0.0133 0.0019

Uranus 27218-09-14 19:12 G 11662487.14 11662487.30 11662487.46 0.0133 0.0040

Uranus 27218-12-12 00:29 G 11662575.37 11662575.52 11662575.68 0.0133 0.0060

Uranus 27219-03-10 05:45 G 11662663.61 11662663.74 11662663.88 0.0133 0.0081

Uranus 27219-06-06 10:48 G 11662751.85 11662751.95 11662752.07 0.0133 0.0101

Moon 27219-08-28 21:21 G 11662835.25 11662835.39 11662835.53 0.2666 0.0675

Earth 27219-08-28 22:48 G 11662835.31 11662835.45 11662835.59 0.2663 0.0788 *

Uranus 27219-09-02 16:19 G 11662840.11 11662840.18 11662840.25 0.0133 0.0121

Moon 27222-02-28 03:21 G 11663749.53 11663749.64 11663749.75 0.2673 0.0776

Earth 27222-02-28 04:05 G 11663749.56 11663749.67 11663749.78 0.2669 0.0866 *

Jupiter 27223-05-13 01:55 G 11664188.49 11664188.58 11664188.68 0.0515 0.0373

Jupiter 27223-08-10 09:36 G 11664277.78 11664277.90 11664278.03 0.0512 0.0215

Mars 27225-07-17 13:41 G 11664984.97 11664985.07 11664985.16 0.1707 0.1172

Saturn 27225-10-10 09:50 G 11665069.82 11665069.91 11665070.01 0.0265 0.0190

Saturn 27226-01-06 21:21 G 11665158.26 11665158.39 11665158.52 0.0265 0.0096

Saturn 27226-04-05 08:53 G 11665246.72 11665246.87 11665247.01 0.0265 0.0006

Saturn 27226-07-02 20:24 G 11665335.22 11665335.35 11665335.49 0.0265 0.0098

Saturn 27226-09-29 08:24 G 11665423.75 11665423.85 11665423.94 0.0265 0.0197

Jupiter 27229-10-09 05:17 G 11666529.56 11666529.72 11666529.88 0.0514 0.0162

Neptune 27232-06-03 06:00 G 11667497.71 11667497.75 11667497.83 0.0089 0.0083

Neptune 27232-08-30 09:21 G 11667585.79 11667585.89 11667585.99 0.0089 0.0073

Neptune 27232-11-26 12:00 G 11667673.89 11667674.00 11667674.14 0.0089 0.0064

Neptune 27233-02-22 15:07 G 11667762.00 11667762.13 11667762.28 0.0089 0.0054

Neptune 27233-05-21 18:00 G 11667850.11 11667850.25 11667850.41 0.0089 0.0045

Neptune 27233-08-17 21:07 G 11667938.22 11667938.38 11667938.55 0.0089 0.0035

Neptune 27233-11-14 00:00 G 11668026.33 11668026.50 11668026.67 0.0089 0.0026

Neptune 27234-02-10 02:53 G 11668114.45 11668114.62 11668114.80 0.0089 0.0017

Mars 27234-02-14 11:02 G 11668118.85 11668118.96 11668119.07 0.1829 0.1151

Neptune 27234-05-09 05:45 G 11668202.57 11668202.74 11668202.92 0.0089 0.0008

Neptune 27234-08-05 08:38 G 11668290.69 11668290.86 11668291.04 0.0089 0.0003

Neptune 27234-11-01 11:31 G 11668378.81 11668378.98 11668379.16 0.0089 0.0011

Mars 27234-12-07 21:50 G 11668415.28 11668415.41 11668415.53 0.1714 0.0269

Neptune 27235-01-28 14:24 G 11668466.93 11668467.10 11668467.27 0.0089 0.0020

Jupiter 27235-03-01 06:00 G 11668498.74 11668498.75 11668498.76 0.0516 0.0513

Moon 27235-03-02 22:33 G 11668500.39 11668500.44 11668500.49 0.2676 0.2401

Earth 27235-03-02 22:48 G 11668500.40 11668500.45 11668500.50 0.2669 0.2379 *

Neptune 27235-04-26 17:17 G 11668555.05 11668555.22 11668555.38 0.0089 0.0030

Jupiter 27235-05-29 13:26 G 11668587.93 11668588.06 11668588.20 0.0512 0.0071

Neptune 27235-07-23 19:55 G 11668643.18 11668643.33 11668643.49 0.0089 0.0039

Neptune 27235-10-19 22:33 G 11668731.31 11668731.44 11668731.60 0.0089 0.0048

Neptune 27236-01-16 01:26 G 11668819.44 11668819.56 11668819.70 0.0089 0.0057

Neptune 27236-04-13 04:05 G 11668907.57 11668907.67 11668907.80 0.0089 0.0067

Neptune 27236-07-10 06:57 G 11668995.71 11668995.79 11668995.89 0.0089 0.0075

Neptune 27236-10-06 09:36 G 11669083.86 11669083.90 11669083.97 0.0089 0.0085

Venus 27238-09-13 15:21 G 11669791.05 11669791.14 11669791.24 0.3691 0.2491

Venus 27240-03-26 21:07 G 11670351.33 11670351.38 11670351.44 0.3680 0.3182

Saturn 27240-08-12 13:12 G 11670489.98 11670490.05 11670490.14 0.0295 0.0257

Saturn 27240-11-09 10:48 G 11670578.79 11670578.95 11670579.12 0.0295 0.0092

Saturn 27241-02-06 07:55 G 11670667.67 11670667.83 11670667.99 0.0295 0.0069

Saturn 27241-05-06 04:19 G 11670756.58 11670756.68 11670756.79 0.0295 0.0226

Jupiter 27241-07-28 04:05 G 11670839.55 11670839.67 11670839.80 0.0513 0.0349

Jupiter 27241-10-26 08:09 G 11670929.75 11670929.84 11670929.94 0.0516 0.0422

Moon 27242-02-23 19:12 G 11671050.22 11671050.30 11671050.38 0.2664 0.1898

Earth 27242-02-23 19:55 G 11671050.24 11671050.33 11671050.41 0.2668 0.1768 *

Mars 27243-07-07 13:26 G 11671548.92 11671549.06 11671549.21 0.1821 0.0229

Venus 27244-03-29 13:55 G 11671814.95 11671815.08 11671815.21 0.3692 0.0027

Mars 27244-04-29 06:00 G 11671845.63 11671845.75 11671845.87 0.1722 0.0642

Venus 27245-10-10 16:05 G 11672375.06 11672375.17 11672375.28 0.3679 0.1370

Jupiter 27247-03-17 16:48 G 11672898.06 11672898.20 11672898.33 0.0513 0.0085

Jupiter 27247-06-15 00:43 G 11672987.52 11672987.53 11672987.54 0.0510 0.0505

Venus 27249-10-13 12:00 G 11673838.90 11673839.00 11673839.09 0.3693 0.2321

Venus 27251-04-26 11:17 G 11674398.85 11674398.97 11674399.08 0.3678 0.0515

Moon 27252-08-26 00:00 G 11674886.37 11674886.50 11674886.63 0.2661 0.1293

Earth 27252-08-26 01:26 G 11674886.42 11674886.56 11674886.69 0.2663 0.1214 *

Mars 27252-11-26 15:50 G 11674979.10 11674979.16 11674979.23 0.1812 0.1596

Jupiter 27253-08-14 06:57 G 11675239.65 11675239.79 11675239.95 0.0516 0.0236

Mars 27253-09-19 14:24 G 11675276.04 11675276.10 11675276.15 0.1729 0.1548

Moon 27255-02-26 13:26 G 11675800.95 11675801.06 11675801.18 0.2667 0.0394

Earth 27255-02-26 14:24 G 11675800.98 11675801.10 11675801.21 0.2668 0.0316 *

Saturn 27255-02-27 12:43 G 11675801.95 11675802.03 11675802.11 0.0266 0.0216

Saturn 27255-05-27 00:00 G 11675890.37 11675890.50 11675890.62 0.0266 0.0122

Saturn 27255-08-23 11:31 G 11675978.83 11675978.98 11675979.12 0.0266 0.0027

Saturn 27255-11-19 23:02 G 11676067.32 11676067.46 11676067.60 0.0266 0.0072

Saturn 27256-02-16 10:48 G 11676155.85 11676155.95 11676156.06 0.0266 0.0172

Venus 27256-11-09 06:43 G 11676422.69 11676422.78 11676422.86 0.3678 0.2474

Jupiter 27259-01-03 20:24 G 11677208.23 11677208.35 11677208.46 0.0514 0.0234

Jupiter 27259-04-03 04:05 G 11677297.57 11677297.67 11677297.77 0.0511 0.0354

Uranus 27259-04-03 06:14 G 11677297.70 11677297.76 11677297.83 0.0145 0.0129 *

Uranus 27259-06-30 10:33 G 11677385.85 11677385.94 11677386.04 0.0145 0.0107

Uranus 27259-09-26 15:07 G 11677474.02 11677474.13 11677474.25 0.0145 0.0084

Uranus 27259-12-23 19:26 G 11677562.19 11677562.31 11677562.45 0.0145 0.0062

Uranus 27260-03-21 00:00 G 11677650.36 11677650.50 11677650.64 0.0145 0.0040

Uranus 27260-06-17 04:33 G 11677738.55 11677738.69 11677738.83 0.0145 0.0017

Uranus 27260-09-13 09:07 G 11677826.73 11677826.88 11677827.02 0.0145 0.0006

Uranus 27260-12-10 13:41 G 11677914.93 11677915.07 11677915.21 0.0145 0.0029

Uranus 27261-03-08 18:14 G 11678003.13 11678003.26 11678003.40 0.0145 0.0052

Uranus 27261-06-04 22:48 G 11678091.33 11678091.45 11678091.58 0.0145 0.0076

Uranus 27261-09-01 03:36 G 11678179.54 11678179.65 11678179.76 0.0145 0.0099

Uranus 27261-11-28 08:09 G 11678267.77 11678267.84 11678267.92 0.0145 0.0123

Mars 27265-01-15 13:41 G 11679411.99 11679412.07 11679412.15 0.1707 0.1299

Pluto 27265-02-18 05:17 G 11679445.61 11679445.72 11679445.85 0.0074 0.0058

Pluto 27265-05-17 07:41 G 11679533.67 11679533.82 11679534.00 0.0074 0.0041

Jupiter 27265-06-02 05:02 G 11679549.54 11679549.71 11679549.88 0.0514 0.0035

Pluto 27265-08-13 10:19 G 11679621.76 11679621.93 11679622.14 0.0074 0.0024

Moon 27265-08-29 03:36 G 11679637.52 11679637.65 11679637.78 0.2666 0.1042

Earth 27265-08-29 04:48 G 11679637.58 11679637.70 11679637.83 0.2663 0.1276 *

Pluto 27265-11-09 13:12 G 11679709.85 11679710.05 11679710.25 0.0074 0.0006

Pluto 27266-02-05 15:36 G 11679797.96 11679798.15 11679798.36 0.0073 0.0012

Pluto 27266-05-04 18:00 G 11679886.08 11679886.25 11679886.45 0.0073 0.0029

Pluto 27266-07-31 20:24 G 11679974.22 11679974.35 11679974.53 0.0073 0.0045

Pluto 27266-10-27 23:17 G 11680062.37 11680062.47 11680062.58 0.0073 0.0061

Moon 27268-02-29 08:24 G 11680551.75 11680551.85 11680551.96 0.2674 0.1089

Earth 27268-02-29 08:53 G 11680551.77 11680551.87 11680551.98 0.2668 0.1181 *

Saturn 27269-12-30 15:07 G 11681222.10 11681222.13 11681222.17 0.0295 0.0287

Saturn 27270-03-29 12:43 G 11681310.88 11681311.03 11681311.19 0.0295 0.0122

Saturn 27270-06-26 09:50 G 11681399.75 11681399.91 11681400.08 0.0295 0.0041

Saturn 27270-09-23 06:29 G 11681488.65 11681488.77 11681488.89 0.0295 0.0199

Jupiter 27270-10-23 00:00 G 11681518.41 11681518.50 11681518.59 0.0515 0.0381

Jupiter 27271-01-20 07:26 G 11681607.69 11681607.81 11681607.94 0.0512 0.0207

Mars 27273-08-15 11:17 G 11682545.87 11682545.97 11682546.07 0.1830 0.1309

Mars 27274-06-07 22:05 G 11682842.29 11682842.42 11682842.54 0.1714 0.0404

Jupiter 27277-03-21 03:07 G 11683859.47 11683859.63 11683859.79 0.0513 0.0163

Moon 27281-03-03 03:50 G 11685302.65 11685302.66 11685302.66 0.2675 0.2669

Jupiter 27282-11-08 11:17 G 11685917.84 11685917.97 11685918.11 0.0513 0.0064

Mars 27283-01-05 14:09 G 11685975.94 11685976.09 11685976.23 0.1821 0.0059

Mars 27283-10-29 06:14 G 11686272.63 11686272.76 11686272.88 0.1721 0.0518

Saturn 27284-07-16 15:50 G 11686534.10 11686534.16 11686534.23 0.0265 0.0236

Saturn 27284-10-13 03:07 G 11686622.52 11686622.63 11686622.75 0.0265 0.0142

Saturn 27285-01-09 14:38 G 11686710.97 11686711.11 11686711.25 0.0265 0.0047

Saturn 27285-04-08 02:09 G 11686799.45 11686799.59 11686799.73 0.0265 0.0051

Saturn 27285-07-05 13:55 G 11686887.96 11686888.08 11686888.20 0.0265 0.0149

Saturn 27285-10-02 01:55 G 11686976.54 11686976.58 11686976.63 0.0265 0.0249

Moon 27288-02-25 00:00 G 11687852.41 11687852.50 11687852.60 0.2664 0.1486

Earth 27288-02-25 00:43 G 11687852.44 11687852.53 11687852.63 0.2668 0.1462 *

Jupiter 27289-01-07 00:57 G 11688169.43 11688169.54 11688169.67 0.0513 0.0363

Jupiter 27289-04-07 05:02 G 11688259.61 11688259.71 11688259.82 0.0516 0.0408

Mars 27292-05-27 16:19 G 11689406.09 11689406.18 11689406.27 0.1812 0.1435

Mars 27293-03-20 14:24 G 11689703.03 11689703.10 11689703.17 0.1729 0.1422

Jupiter 27294-08-27 15:21 G 11690228.00 11690228.14 11690228.27 0.0513 0.0082

Jupiter 27294-11-24 23:17 G 11690317.47 11690317.47 11690317.47 0.0510 0.0510

Venus 27295-04-20 14:53 G 11690464.00 11690464.12 11690464.23 0.3691 0.1657

Venus 27296-10-31 19:41 G 11691024.23 11691024.32 11691024.40 0.3680 0.2573

Moon 27298-08-27 06:14 G 11691688.62 11691688.76 11691688.89 0.2663 0.0988

Earth 27298-08-27 07:26 G 11691688.67 11691688.81 11691688.96 0.2663 0.0713 *

Saturn 27299-08-16 11:31 G 11692042.84 11692042.98 11692043.12 0.0295 0.0172

Saturn 27299-11-13 08:53 G 11692131.70 11692131.87 11692132.04 0.0295 0.0010

Saturn 27300-02-10 05:31 G 11692220.59 11692220.73 11692220.88 0.0295 0.0151

Uranus 27300-10-30 06:14 G 11692482.71 11692482.76 11692482.84 0.0133 0.0123

Venus 27300-11-04 13:12 G 11692487.92 11692488.05 11692488.17 0.3692 0.0777

Jupiter 27301-01-25 04:19 G 11692569.53 11692569.68 11692569.83 0.0515 0.0225

Uranus 27301-01-26 12:00 G 11692570.90 11692571.00 11692571.12 0.0133 0.0102

Moon 27301-02-27 18:29 G 11692603.16 11692603.27 11692603.39 0.2669 0.0169

Earth 27301-02-27 19:12 G 11692603.19 11692603.30 11692603.42 0.2668 0.0070 *

Uranus 27301-04-24 17:31 G 11692659.11 11692659.23 11692659.38 0.0133 0.0081

Uranus 27301-07-21 23:31 G 11692747.32 11692747.48 11692747.63 0.0133 0.0059

Uranus 27301-10-18 04:48 G 11692835.54 11692835.70 11692835.87 0.0133 0.0038

Uranus 27302-01-14 10:19 G 11692923.76 11692923.93 11692924.10 0.0133 0.0016

Uranus 27302-04-12 15:50 G 11693011.99 11693012.16 11693012.33 0.0133 0.0005

Venus 27302-05-18 14:38 G 11693047.99 11693048.11 11693048.22 0.3679 0.0747

Uranus 27302-07-09 21:07 G 11693100.22 11693100.38 11693100.55 0.0133 0.0026

Uranus 27302-10-06 02:24 G 11693188.45 11693188.60 11693188.77 0.0133 0.0046

Uranus 27303-01-02 07:55 G 11693276.68 11693276.83 11693276.97 0.0133 0.0066

Uranus 27303-03-31 12:57 G 11693364.92 11693365.04 11693365.17 0.0133 0.0087

Uranus 27303-06-27 18:00 G 11693453.17 11693453.25 11693453.36 0.0133 0.0107

Uranus 27303-09-23 23:17 G 11693541.43 11693541.47 11693541.53 0.0133 0.0127

Mars 27304-07-17 13:55 G 11693839.01 11693839.08 11693839.15 0.1707 0.1431

Venus 27306-05-21 11:02 G 11694511.89 11694511.96 11694512.03 0.3693 0.3088

Jupiter 27306-06-16 18:43 G 11694538.16 11694538.28 11694538.40 0.0514 0.0233

Jupiter 27306-09-14 02:24 G 11694627.50 11694627.60 11694627.70 0.0511 0.0354

Venus 27307-12-02 09:36 G 11695071.79 11695071.90 11695072.02 0.3678 0.1176

Moon 27311-08-31 09:36 G 11696439.79 11696439.90 11696440.02 0.2666 0.1681

Earth 27311-08-31 11:02 G 11696439.85 11696439.96 11696440.06 0.2663 0.1754 *

Jupiter 27312-11-13 03:07 G 11696879.46 11696879.63 11696879.80 0.0515 0.0037

Mars 27313-02-14 11:45 G 11696972.91 11696972.99 11696973.07 0.1830 0.1494

Neptune 27313-03-15 03:36 G 11697001.61 11697001.65 11697001.70 0.0088 0.0084

Neptune 27313-06-11 05:02 G 11697089.65 11697089.71 11697089.79 0.0088 0.0077

Venus 27313-06-17 05:17 G 11697095.66 11697095.72 11697095.78 0.3678 0.3159

Neptune 27313-09-07 06:43 G 11697177.70 11697177.78 11697177.87 0.0088 0.0069

Neptune 27313-12-04 08:09 G 11697265.75 11697265.84 11697265.95 0.0088 0.0062

Saturn 27313-12-04 18:29 G 11697266.25 11697266.27 11697266.29 0.0266 0.0263

Mars 27313-12-07 22:05 G 11697269.29 11697269.42 11697269.54 0.1714 0.0521

Neptune 27314-03-02 09:36 G 11697353.80 11697353.90 11697354.02 0.0088 0.0056

Moon 27314-03-02 13:26 G 11697353.96 11697354.06 11697354.15 0.2674 0.1450 *

Earth 27314-03-02 13:55 G 11697353.99 11697354.08 11697354.18 0.2669 0.1486 *

Saturn 27314-03-03 05:45 G 11697354.63 11697354.74 11697354.84 0.0266 0.0169

Neptune 27314-05-29 11:17 G 11697441.86 11697441.97 11697442.09 0.0088 0.0048

Saturn 27314-05-30 17:02 G 11697443.08 11697443.21 11697443.35 0.0266 0.0074

Neptune 27314-08-25 12:57 G 11697529.92 11697530.04 11697530.17 0.0088 0.0041

Saturn 27314-08-27 04:33 G 11697531.55 11697531.69 11697531.84 0.0266 0.0024

Neptune 27314-11-21 14:24 G 11697617.98 11697618.10 11697618.24 0.0088 0.0034

Saturn 27314-11-23 16:19 G 11697620.06 11697620.18 11697620.31 0.0266 0.0122

Neptune 27315-02-17 16:05 G 11697706.04 11697706.17 11697706.31 0.0088 0.0026

Saturn 27315-02-20 04:19 G 11697708.60 11697708.68 11697708.76 0.0266 0.0222

Neptune 27315-05-16 17:31 G 11697794.10 11697794.23 11697794.38 0.0088 0.0020

Neptune 27315-08-12 19:12 G 11697882.16 11697882.30 11697882.44 0.0088 0.0012

Neptune 27315-11-08 20:53 G 11697970.23 11697970.37 11697970.51 0.0088 0.0004

Neptune 27316-02-04 22:33 G 11698058.29 11698058.44 11698058.58 0.0088 0.0004

Neptune 27316-05-03 00:00 G 11698146.36 11698146.50 11698146.64 0.0088 0.0010

Neptune 27316-07-30 01:41 G 11698234.43 11698234.57 11698234.71 0.0088 0.0018

Neptune 27316-10-26 03:07 G 11698322.50 11698322.63 11698322.78 0.0088 0.0025

Neptune 27317-01-22 04:48 G 11698410.57 11698410.70 11698410.84 0.0088 0.0032

Neptune 27317-04-20 06:14 G 11698498.64 11698498.76 11698498.90 0.0088 0.0040

Neptune 27317-07-17 07:55 G 11698586.72 11698586.83 11698586.96 0.0088 0.0048

Neptune 27317-10-13 09:50 G 11698674.80 11698674.91 11698675.02 0.0088 0.0055

Neptune 27318-01-09 11:17 G 11698762.88 11698762.97 11698763.08 0.0088 0.0062

Jupiter 27318-04-04 22:19 G 11698848.34 11698848.43 11698848.52 0.0515 0.0381

Neptune 27318-04-07 13:12 G 11698850.96 11698851.05 11698851.13 0.0088 0.0070

Jupiter 27318-07-03 05:45 G 11698937.62 11698937.74 11698937.87 0.0511 0.0203

Neptune 27318-07-04 14:24 G 11698939.05 11698939.10 11698939.18 0.0088 0.0078

Neptune 27318-09-30 16:19 G 11699027.15 11699027.18 11699027.22 0.0088 0.0085

Moon 27321-02-23 11:02 G 11699903.93 11699903.96 11699903.98 0.2662 0.2581

Earth 27321-02-23 11:17 G 11699903.94 11699903.97 11699903.99 0.2668 0.2599 *

Mars 27322-07-07 14:09 G 11700402.95 11700403.09 11700403.24 0.1821 0.0119

Mars 27323-04-30 06:14 G 11700699.64 11700699.76 11700699.89 0.1722 0.0385

Jupiter 27324-09-01 00:57 G 11701189.37 11701189.54 11701189.70 0.0513 0.0166

Saturn 27329-01-03 13:26 G 11702774.94 11702775.06 11702775.19 0.0295 0.0201

Saturn 27329-04-02 10:48 G 11702863.79 11702863.95 11702864.12 0.0295 0.0038

Saturn 27329-06-30 07:41 G 11702952.67 11702952.82 11702952.98 0.0295 0.0124

Saturn 27329-09-27 04:05 G 11703041.62 11703041.67 11703041.72 0.0295 0.0280

Jupiter 27330-04-21 09:21 G 11703247.75 11703247.89 11703248.02 0.0513 0.0056

Mars 27331-11-27 16:48 G 11703833.10 11703833.20 11703833.30 0.1813 0.1260

Mars 27332-09-19 14:38 G 11704130.03 11704130.11 11704130.19 0.1729 0.1293

Moon 27334-02-26 05:02 G 11704654.61 11704654.71 11704654.81 0.2664 0.1322

Earth 27334-02-26 05:31 G 11704654.63 11704654.73 11704654.84 0.2668 0.1166 *

Jupiter 27336-06-19 22:48 G 11705499.34 11705499.45 11705499.58 0.0512 0.0364

Jupiter 27336-09-18 02:53 G 11705589.52 11705589.62 11705589.72 0.0516 0.0406

Jupiter 27342-02-07 13:12 G 11707557.91 11707558.05 11707558.18 0.0514 0.0092

Jupiter 27342-05-07 21:07 G 11707647.36 11707647.38 11707647.40 0.0510 0.0501

Uranus 27343-04-24 13:26 G 11707998.99 11707999.06 11707999.13 0.0145 0.0124

Saturn 27343-07-21 09:07 G 11708086.79 11708086.88 11708086.98 0.0265 0.0188

Uranus 27343-07-21 17:45 G 11708087.14 11708087.24 11708087.34 0.0145 0.0102

Saturn 27343-10-17 20:24 G 11708175.22 11708175.35 11708175.49 0.0265 0.0093

Uranus 27343-10-17 22:05 G 11708175.30 11708175.42 11708175.54 0.0145 0.0080 *

Uranus 27344-01-14 02:24 G 11708263.47 11708263.60 11708263.74 0.0145 0.0058

Saturn 27344-01-14 07:55 G 11708263.69 11708263.83 11708263.97 0.0265 0.0006 *

Mars 27344-01-16 13:55 G 11708266.03 11708266.08 11708266.13 0.1707 0.1561

Uranus 27344-04-11 06:57 G 11708351.65 11708351.79 11708351.93 0.0145 0.0035

Saturn 27344-04-11 19:41 G 11708352.19 11708352.32 11708352.45 0.0265 0.0101

Uranus 27344-07-08 11:31 G 11708439.84 11708439.98 11708440.12 0.0145 0.0012

Saturn 27344-07-09 07:26 G 11708440.72 11708440.81 11708440.91 0.0265 0.0201

Moon 27344-08-28 12:14 G 11708490.86 11708491.01 11708491.16 0.2664 0.0315

Earth 27344-08-28 13:41 G 11708490.92 11708491.07 11708491.22 0.2663 0.0217 *

Uranus 27344-10-04 16:05 G 11708528.02 11708528.17 11708528.31 0.0145 0.0011

Uranus 27344-12-31 20:38 G 11708616.22 11708616.36 11708616.50 0.0145 0.0034

Uranus 27345-03-30 01:12 G 11708704.42 11708704.55 11708704.68 0.0145 0.0057

Uranus 27345-06-26 05:45 G 11708792.62 11708792.74 11708792.87 0.0145 0.0080

Uranus 27345-09-22 10:19 G 11708880.84 11708880.93 11708881.04 0.0145 0.0104

Uranus 27345-12-19 15:07 G 11708969.07 11708969.13 11708969.20 0.0145 0.0128

Venus 27346-05-12 15:21 G 11709113.09 11709113.14 11709113.19 0.3691 0.3365

Moon 27347-02-28 23:31 G 11709405.36 11709405.48 11709405.59 0.2671 0.0273

Earth 27347-03-01 00:14 G 11709405.39 11709405.51 11709405.62 0.2668 0.0307 *

Jupiter 27348-07-07 01:12 G 11709899.40 11709899.55 11709899.71 0.0515 0.0211

Venus 27351-11-26 14:09 G 11711136.97 11711137.09 11711137.21 0.3692 0.0834

Mars 27352-08-15 12:14 G 11711399.95 11711400.01 11711400.07 0.1830 0.1658

Mars 27353-06-07 22:05 G 11711696.30 11711696.42 11711696.54 0.1714 0.0655

Venus 27353-06-08 18:00 G 11711697.15 11711697.25 11711697.34 0.3679 0.1960

Jupiter 27353-11-26 17:02 G 11711868.09 11711868.21 11711868.33 0.0514 0.0233

Jupiter 27354-02-24 00:43 G 11711957.44 11711957.53 11711957.63 0.0511 0.0357

Venus 27357-06-11 12:14 G 11713160.90 11713161.01 11713161.13 0.3692 0.1557

Moon 27357-08-31 16:05 G 11713242.08 11713242.17 11713242.26 0.2667 0.2029

Earth 27357-08-31 17:02 G 11713242.13 11713242.21 11713242.29 0.2663 0.2239 *

Saturn 27358-05-23 12:14 G 11713506.92 11713507.01 11713507.10 0.0295 0.0252

Saturn 27358-08-20 09:50 G 11713595.74 11713595.91 11713596.07 0.0295 0.0087

Saturn 27358-11-17 06:43 G 11713684.62 11713684.78 11713684.95 0.0295 0.0075

Venus 27358-12-23 12:57 G 11713720.92 11713721.04 11713721.15 0.3679 0.0142

Saturn 27359-02-14 03:07 G 11713773.54 11713773.63 11713773.74 0.0295 0.0233

Moon 27360-03-02 18:29 G 11714156.18 11714156.27 11714156.36 0.2674 0.1700

Earth 27360-03-02 18:57 G 11714156.21 11714156.29 11714156.37 0.2668 0.1801 *

Jupiter 27360-04-25 00:14 G 11714209.34 11714209.51 11714209.68 0.0514 0.0025

Mars 27362-01-05 14:53 G 11714829.98 11714830.12 11714830.26 0.1821 0.0291

Mars 27362-10-29 06:29 G 11715126.64 11715126.77 11715126.89 0.1721 0.0267

Venus 27364-07-08 08:09 G 11715744.74 11715744.84 11715744.94 0.3678 0.1832

Jupiter 27365-09-14 20:38 G 11716178.27 11716178.36 11716178.45 0.0515 0.0381

Jupiter 27365-12-13 04:05 G 11716267.55 11716267.67 11716267.80 0.0511 0.0204

Moon 27367-02-24 15:50 G 11716706.11 11716706.16 11716706.21 0.2662 0.2365

Earth 27367-02-24 16:05 G 11716706.12 11716706.17 11716706.23 0.2668 0.2299 *

Mars 27371-05-28 17:17 G 11718260.10 11718260.22 11718260.33 0.1812 0.1086

Jupiter 27372-02-11 22:48 G 11718519.29 11718519.45 11718519.61 0.0514 0.0166

Mars 27372-03-20 14:38 G 11718557.02 11718557.11 11718557.20 0.1729 0.1173

Saturn 27372-12-07 11:31 G 11718818.90 11718818.98 11718819.06 0.0266 0.0216

Saturn 27373-03-05 22:48 G 11718907.33 11718907.45 11718907.58 0.0266 0.0122

Saturn 27373-06-02 10:19 G 11718995.79 11718995.93 11718996.07 0.0266 0.0026

Saturn 27373-08-29 21:50 G 11719084.28 11719084.41 11719084.55 0.0266 0.0073

Saturn 27373-11-26 09:36 G 11719172.80 11719172.90 11719173.01 0.0266 0.0172

Moon 27377-08-26 14:53 G 11720542.06 11720542.12 11720542.18 0.2661 0.2398

Earth 27377-08-26 16:05 G 11720542.09 11720542.17 11720542.25 0.2664 0.2253 *

Jupiter 27377-10-01 07:41 G 11720577.69 11720577.82 11720577.95 0.0512 0.0054

Moon 27380-02-27 09:50 G 11721456.80 11721456.91 11721457.02 0.2665 0.0899

Earth 27380-02-27 10:33 G 11721456.83 11721456.94 11721457.05 0.2668 0.0860 *

Mars 27383-07-17 14:09 G 11722693.08 11722693.09 11722693.10 0.1707 0.1695

Jupiter 27383-11-30 20:38 G 11722829.24 11722829.36 11722829.48 0.0513 0.0366

Jupiter 27384-02-29 00:43 G 11722919.43 11722919.53 11722919.63 0.0516 0.0404

Uranus 27384-11-19 13:55 G 11723184.00 11723184.08 11723184.16 0.0133 0.0116

Uranus 27385-02-15 19:26 G 11723272.20 11723272.31 11723272.44 0.0133 0.0095

Uranus 27385-05-15 01:12 G 11723360.41 11723360.55 11723360.69 0.0133 0.0073

Uranus 27385-08-11 06:43 G 11723448.62 11723448.78 11723448.94 0.0133 0.0052

Uranus 27385-11-07 12:14 G 11723536.84 11723537.01 11723537.18 0.0133 0.0031

Uranus 27386-02-03 17:45 G 11723625.07 11723625.24 11723625.41 0.0133 0.0010

Uranus 27386-05-02 23:02 G 11723713.29 11723713.46 11723713.63 0.0133 0.0011

Uranus 27386-07-30 04:19 G 11723801.52 11723801.68 11723801.85 0.0133 0.0032

Uranus 27386-10-26 09:50 G 11723889.76 11723889.91 11723890.07 0.0133 0.0052

Uranus 27387-01-22 14:53 G 11723977.99 11723978.12 11723978.27 0.0133 0.0073

Uranus 27387-04-20 20:09 G 11724066.23 11724066.34 11724066.47 0.0133 0.0093

Uranus 27387-07-18 01:26 G 11724154.48 11724154.56 11724154.65 0.0133 0.0113

Saturn 27387-10-10 13:55 G 11724239.04 11724239.08 11724239.12 0.0295 0.0284

Uranus 27387-10-14 06:29 G 11724242.77 11724242.77 11724242.79 0.0133 0.0133

Saturn 27388-01-07 11:31 G 11724327.83 11724327.98 11724328.14 0.0295 0.0117

Saturn 27388-04-05 08:38 G 11724416.70 11724416.86 11724417.03 0.0295 0.0046

Saturn 27388-07-03 05:17 G 11724505.60 11724505.72 11724505.84 0.0295 0.0204

Jupiter 27389-07-20 11:02 G 11724887.83 11724887.96 11724888.09 0.0514 0.0098

Jupiter 27389-10-17 18:57 G 11724977.26 11724977.29 11724977.33 0.0511 0.0493

Moon 27390-08-29 18:29 G 11725293.12 11725293.27 11725293.41 0.2665 0.0083

Earth 27390-08-29 19:55 G 11725293.18 11725293.33 11725293.47 0.2663 0.0285 *

Mars 27392-02-14 12:29 G 11725827.01 11725827.02 11725827.03 0.1830 0.1817

Mars 27392-12-06 22:19 G 11726123.32 11726123.43 11726123.54 0.1714 0.0784

Moon 27393-03-01 04:19 G 11726207.57 11726207.68 11726207.80 0.2672 0.0456

Earth 27393-03-01 05:02 G 11726207.60 11726207.71 11726207.82 0.2668 0.0614 *

Jupiter 27395-12-17 23:17 G 11727229.31 11727229.47 11727229.62 0.0515 0.0211

Neptune 27396-12-03 02:09 G 11727580.59 11727580.59 11727580.59 0.0089 0.0089

Neptune 27397-03-01 05:02 G 11727668.63 11727668.71 11727668.79 0.0089 0.0079

Neptune 27397-05-28 07:41 G 11727756.73 11727756.82 11727756.95 0.0089 0.0070

Neptune 27397-08-24 10:48 G 11727844.83 11727844.95 11727845.09 0.0089 0.0061

Neptune 27397-11-20 13:41 G 11727932.94 11727933.07 11727933.23 0.0089 0.0051

Neptune 27398-02-16 16:48 G 11728021.05 11728021.20 11728021.36 0.0089 0.0041

Neptune 27398-05-15 19:41 G 11728109.16 11728109.32 11728109.49 0.0089 0.0032

Neptune 27398-08-11 22:48 G 11728197.28 11728197.45 11728197.62 0.0089 0.0022

Neptune 27398-11-08 01:41 G 11728285.40 11728285.57 11728285.75 0.0089 0.0013

Neptune 27399-02-04 04:33 G 11728373.52 11728373.69 11728373.87 0.0089 0.0004

Neptune 27399-05-03 07:26 G 11728461.64 11728461.81 11728461.99 0.0089 0.0006

Neptune 27399-07-30 10:19 G 11728549.76 11728549.93 11728550.11 0.0089 0.0015

Neptune 27399-10-26 13:12 G 11728637.88 11728638.05 11728638.22 0.0089 0.0024

Neptune 27400-01-22 16:05 G 11728726.01 11728726.17 11728726.33 0.0089 0.0033

Neptune 27400-04-20 18:57 G 11728814.13 11728814.29 11728814.44 0.0089 0.0043

Neptune 27400-07-17 21:21 G 11728902.26 11728902.39 11728902.55 0.0089 0.0052

Neptune 27400-10-14 00:14 G 11728990.40 11728990.51 11728990.65 0.0089 0.0061

Neptune 27401-01-10 02:53 G 11729078.53 11729078.62 11729078.75 0.0089 0.0070

Neptune 27401-04-08 05:45 G 11729166.68 11729166.74 11729166.83 0.0089 0.0079

Jupiter 27401-05-09 14:53 G 11729198.01 11729198.12 11729198.24 0.0515 0.0242

Neptune 27401-07-05 08:24 G 11729254.84 11729254.85 11729254.90 0.0089 0.0088

Mars 27401-07-07 15:21 G 11729257.00 11729257.14 11729257.28 0.1822 0.0466

Jupiter 27401-08-06 22:48 G 11729287.35 11729287.45 11729287.55 0.0511 0.0348

Saturn 27402-04-27 14:53 G 11729551.07 11729551.12 11729551.19 0.0265 0.0235

Mars 27402-04-30 06:29 G 11729553.64 11729553.77 11729553.90 0.1721 0.0134

Saturn 27402-07-25 02:09 G 11729639.48 11729639.59 11729639.71 0.0265 0.0140

Saturn 27402-10-21 13:41 G 11729727.93 11729728.07 11729728.21 0.0265 0.0045

Venus 27402-12-18 14:53 G 11729786.03 11729786.12 11729786.21 0.3691 0.2518

Saturn 27403-01-18 01:12 G 11729816.41 11729816.55 11729816.69 0.0265 0.0053

Saturn 27403-04-16 12:57 G 11729904.93 11729905.04 11729905.16 0.0265 0.0152

Saturn 27403-07-14 00:57 G 11729993.50 11729993.54 11729993.58 0.0265 0.0252

Venus 27404-06-30 21:21 G 11730346.34 11730346.39 11730346.45 0.3680 0.3152

Moon 27406-03-04 23:31 G 11730958.42 11730958.48 11730958.55 0.2674 0.2133

Earth 27406-03-04 23:45 G 11730958.43 11730958.49 11730958.56 0.2668 0.2114 *

Jupiter 27407-10-06 21:21 G 11731539.22 11731539.39 11731539.56 0.0514 0.0014

Venus 27408-07-03 13:26 G 11731809.93 11731810.06 11731810.18 0.3692 0.0129

Venus 27410-01-14 16:19 G 11732370.07 11732370.18 11732370.28 0.3679 0.1354

Mars 27410-11-27 17:45 G 11732687.11 11732687.24 11732687.36 0.1813 0.0915

Mars 27411-09-20 14:53 G 11732984.02 11732984.12 11732984.22 0.1728 0.1042

Jupiter 27413-02-25 18:57 G 11733508.20 11733508.29 11733508.38 0.0515 0.0383

Moon 27413-02-25 20:38 G 11733508.29 11733508.36 11733508.43 0.2662 0.2062 *

Earth 27413-02-25 21:07 G 11733508.30 11733508.38 11733508.45 0.2668 0.2005 *

Jupiter 27413-05-26 02:38 G 11733597.48 11733597.61 11733597.73 0.0512 0.0204

Venus 27414-01-17 11:31 G 11733833.88 11733833.98 11733834.07 0.3693 0.2339

Venus 27415-07-31 11:17 G 11734393.86 11734393.97 11734394.09 0.3679 0.0542

Saturn 27417-05-27 10:33 G 11735059.80 11735059.94 11735060.09 0.0295 0.0165

Saturn 27417-08-24 07:55 G 11735148.66 11735148.83 11735149.00 0.0295 0.0004

Saturn 27417-11-21 04:33 G 11735237.56 11735237.69 11735237.84 0.0295 0.0159

Jupiter 27419-07-25 19:55 G 11735849.17 11735849.33 11735849.50 0.0513 0.0177

Venus 27421-02-13 06:43 G 11736417.69 11736417.78 11736417.86 0.3678 0.2501

Moon 27423-08-28 20:53 G 11737344.27 11737344.37 11737344.47 0.2662 0.1902

Earth 27423-08-28 22:19 G 11737344.32 11737344.43 11737344.54 0.2664 0.1743 *

Jupiter 27425-03-14 06:00 G 11737907.62 11737907.75 11737907.89 0.0512 0.0057

Moon 27426-02-28 14:38 G 11738259.00 11738259.11 11738259.22 0.2667 0.0699

Earth 27426-02-28 15:21 G 11738259.03 11738259.14 11738259.26 0.2668 0.0565 *

Pluto 27427-02-07 18:57 G 11738603.26 11738603.29 11738603.35 0.0070 0.0066

Uranus 27427-02-16 15:50 G 11738612.14 11738612.16 11738612.19 0.0145 0.0142

Pluto 27427-05-06 19:41 G 11738691.25 11738691.32 11738691.40 0.0070 0.0056

Uranus 27427-05-15 19:55 G 11738700.27 11738700.33 11738700.42 0.0145 0.0121

Pluto 27427-08-02 20:09 G 11738779.26 11738779.34 11738779.45 0.0070 0.0047

Uranus 27427-08-12 00:29 G 11738788.42 11738788.52 11738788.63 0.0145 0.0099

Pluto 27427-10-29 20:53 G 11738867.26 11738867.37 11738867.49 0.0070 0.0037

Uranus 27427-11-08 05:02 G 11738876.59 11738876.71 11738876.83 0.0145 0.0076

Pluto 27428-01-25 21:21 G 11738955.28 11738955.39 11738955.52 0.0070 0.0027

Uranus 27428-02-04 09:21 G 11738964.76 11738964.89 11738965.03 0.0145 0.0054

Pluto 27428-04-22 22:05 G 11739043.30 11739043.42 11739043.55 0.0070 0.0017

Uranus 27428-05-02 13:55 G 11739052.94 11739053.08 11739053.22 0.0145 0.0031

Pluto 27428-07-19 22:33 G 11739131.32 11739131.44 11739131.58 0.0070 0.0008

Uranus 27428-07-29 18:29 G 11739141.12 11739141.27 11739141.41 0.0145 0.0010

Pluto 27428-10-15 23:17 G 11739219.34 11739219.47 11739219.60 0.0070 0.0002

Uranus 27428-10-25 22:48 G 11739229.31 11739229.45 11739229.60 0.0145 0.0015

Pluto 27429-01-11 23:45 G 11739307.37 11739307.49 11739307.62 0.0070 0.0012

Uranus 27429-01-22 03:21 G 11739317.51 11739317.64 11739317.79 0.0145 0.0038

Pluto 27429-04-10 00:29 G 11739395.39 11739395.52 11739395.64 0.0071 0.0022

Uranus 27429-04-20 07:55 G 11739405.71 11739405.83 11739405.97 0.0145 0.0061

Pluto 27429-07-07 00:57 G 11739483.43 11739483.54 11739483.66 0.0071 0.0032

Uranus 27429-07-17 12:43 G 11739493.91 11739494.03 11739494.15 0.0145 0.0084

Pluto 27429-10-03 01:26 G 11739571.46 11739571.56 11739571.67 0.0071 0.0042

Uranus 27429-10-13 17:17 G 11739582.13 11739582.22 11739582.32 0.0145 0.0108

Pluto 27429-12-30 02:09 G 11739659.51 11739659.59 11739659.68 0.0071 0.0052

Uranus 27430-01-09 22:05 G 11739670.36 11739670.42 11739670.48 0.0145 0.0132

Pluto 27430-03-28 02:53 G 11739747.56 11739747.62 11739747.68 0.0071 0.0062

Jupiter 27431-05-13 18:29 G 11740159.15 11740159.27 11740159.39 0.0513 0.0368

Jupiter 27431-08-11 22:33 G 11740249.34 11740249.44 11740249.55 0.0516 0.0405

Saturn 27431-09-14 17:02 G 11740283.21 11740283.21 11740283.23 0.0266 0.0265

Saturn 27431-12-12 04:19 G 11740371.58 11740371.68 11740371.79 0.0266 0.0171

Saturn 27432-03-09 15:36 G 11740460.02 11740460.15 11740460.29 0.0266 0.0076

Saturn 27432-06-06 03:07 G 11740548.49 11740548.63 11740548.78 0.0266 0.0023

Mars 27432-06-07 22:19 G 11740550.32 11740550.43 11740550.54 0.1714 0.0909

Saturn 27432-09-02 14:53 G 11740636.99 11740637.12 11740637.25 0.0266 0.0120

Saturn 27432-11-30 02:53 G 11740725.54 11740725.62 11740725.70 0.0266 0.0220

Moon 27436-08-31 00:43 G 11742095.39 11742095.53 11742095.67 0.2665 0.0659

Earth 27436-08-31 02:09 G 11742095.45 11742095.59 11742095.73 0.2663 0.0778 *

Jupiter 27436-12-31 09:36 G 11742217.77 11742217.90 11742218.04 0.0513 0.0094

Jupiter 27437-03-30 17:31 G 11742307.20 11742307.23 11742307.26 0.0510 0.0496

Moon 27439-03-03 09:21 G 11743009.78 11743009.89 11743010.00 0.2672 0.0888

Earth 27439-03-03 10:05 G 11743009.81 11743009.92 11743010.03 0.2668 0.0919 *

Mars 27441-01-05 15:36 G 11743684.01 11743684.15 11743684.29 0.1822 0.0624

Mars 27441-10-29 06:43 G 11743980.65 11743980.78 11743980.91 0.1721 0.0005

Jupiter 27443-05-30 21:07 G 11744559.22 11744559.38 11744559.53 0.0515 0.0210

Saturn 27446-10-14 11:31 G 11745791.86 11745791.98 11745792.11 0.0295 0.0202

Saturn 27447-01-11 09:07 G 11745880.71 11745880.88 11745881.05 0.0295 0.0037

Saturn 27447-04-10 06:00 G 11745969.60 11745969.75 11745969.90 0.0295 0.0125

Saturn 27447-07-08 02:24 G 11746058.56 11746058.60 11746058.65 0.0295 0.0281

Jupiter 27448-10-19 12:57 G 11746527.93 11746528.04 11746528.16 0.0515 0.0247

Jupiter 27449-01-16 20:38 G 11746617.26 11746617.36 11746617.46 0.0511 0.0343

Mars 27450-05-28 18:00 G 11747114.12 11747114.25 11747114.39 0.1813 0.0749

Mars 27451-03-21 14:53 G 11747411.01 11747411.12 11747411.23 0.1728 0.0916

Moon 27452-03-05 04:48 G 11747760.65 11747760.70 11747760.75 0.2675 0.2360

Earth 27452-03-05 04:48 G 11747760.66 11747760.70 11747760.75 0.2668 0.2426 *

Jupiter 27455-03-18 19:26 G 11748869.14 11748869.31 11748869.48 0.0514 0.0017

Moon 27459-02-27 01:26 G 11750310.47 11750310.56 11750310.64 0.2662 0.1758

Earth 27459-02-27 01:55 G 11750310.49 11750310.58 11750310.67 0.2668 0.1704 *

Venus 27459-07-25 14:09 G 11750458.98 11750459.09 11750459.20 0.3691 0.1691

Jupiter 27460-08-07 16:48 G 11750838.12 11750838.20 11750838.29 0.0516 0.0391

Jupiter 27460-11-05 00:29 G 11750927.39 11750927.52 11750927.64 0.0512 0.0197

Venus 27461-02-04 19:41 G 11751019.24 11751019.32 11751019.40 0.3680 0.2550

Saturn 27461-04-30 07:41 G 11751103.73 11751103.82 11751103.92 0.0265 0.0189

Saturn 27461-07-27 19:12 G 11751192.17 11751192.30 11751192.43 0.0265 0.0094

Saturn 27461-10-24 06:29 G 11751280.63 11751280.77 11751280.92 0.0265 0.0009

Saturn 27462-01-20 18:14 G 11751369.13 11751369.26 11751369.39 0.0265 0.0100

Saturn 27462-04-19 06:00 G 11751457.66 11751457.75 11751457.85 0.0265 0.0200

Venus 27465-02-07 12:29 G 11752482.90 11752483.02 11752483.15 0.3692 0.0780

Venus 27466-08-21 14:38 G 11753042.99 11753043.11 11753043.22 0.3679 0.0712

Jupiter 27467-01-04 17:17 G 11753179.06 11753179.22 11753179.39 0.0513 0.0184

Uranus 27468-09-13 15:36 G 11753797.13 11753797.15 11753797.18 0.0133 0.0131

Uranus 27468-12-10 21:21 G 11753885.30 11753885.39 11753885.49 0.0133 0.0110

Uranus 27469-03-09 02:53 G 11753973.50 11753973.62 11753973.76 0.0133 0.0088

Uranus 27469-06-05 08:38 G 11754061.71 11754061.86 11754062.01 0.0133 0.0067

Moon 27469-08-29 03:07 G 11754146.50 11754146.63 11754146.75 0.2663 0.1477

Earth 27469-08-29 04:33 G 11754146.56 11754146.69 11754146.82 0.2663 0.1234 *

Uranus 27469-09-01 14:09 G 11754149.93 11754150.09 11754150.25 0.0133 0.0045

Uranus 27469-11-28 19:41 G 11754238.15 11754238.32 11754238.49 0.0133 0.0024

Uranus 27470-02-25 01:12 G 11754326.38 11754326.55 11754326.72 0.0133 0.0003

Uranus 27470-05-24 06:29 G 11754414.61 11754414.77 11754414.95 0.0133 0.0018

Uranus 27470-08-20 12:00 G 11754502.84 11754503.00 11754503.16 0.0133 0.0038

Venus 27470-08-24 10:33 G 11754506.88 11754506.94 11754507.01 0.3693 0.3106

Uranus 27470-11-16 17:17 G 11754591.07 11754591.22 11754591.37 0.0133 0.0059

Uranus 27471-02-12 22:33 G 11754679.31 11754679.44 11754679.58 0.0133 0.0079

Uranus 27471-05-12 03:50 G 11754767.55 11754767.66 11754767.77 0.0133 0.0099

Uranus 27471-08-08 08:53 G 11754855.81 11754855.87 11754855.95 0.0133 0.0119

Mars 27471-12-07 22:33 G 11754977.34 11754977.44 11754977.54 0.1713 0.1040

Moon 27472-02-29 19:41 G 11755061.20 11755061.32 11755061.43 0.2669 0.0356

Earth 27472-02-29 20:24 G 11755061.24 11755061.35 11755061.46 0.2668 0.0255 *

Venus 27472-03-06 09:50 G 11755066.80 11755066.91 11755067.02 0.3678 0.1202

Jupiter 27472-08-24 04:19 G 11755237.55 11755237.68 11755237.82 0.0513 0.0055

Saturn 27476-03-02 10:33 G 11756523.85 11756523.94 11756524.03 0.0295 0.0251

Saturn 27476-05-30 08:09 G 11756612.68 11756612.84 11756613.00 0.0295 0.0085

Saturn 27476-08-27 05:17 G 11756701.56 11756701.72 11756701.88 0.0295 0.0077

Saturn 27476-11-24 01:41 G 11756790.48 11756790.57 11756790.67 0.0295 0.0235

Neptune 27477-09-14 01:26 G 11757084.56 11757084.56 11757084.58 0.0088 0.0088

Venus 27477-09-20 05:17 G 11757090.66 11757090.72 11757090.77 0.3678 0.3187

Neptune 27477-12-11 02:53 G 11757172.58 11757172.62 11757172.69 0.0088 0.0081

Neptune 27478-03-09 04:19 G 11757260.62 11757260.68 11757260.77 0.0088 0.0074

Neptune 27478-06-05 06:14 G 11757348.67 11757348.76 11757348.85 0.0088 0.0067

Neptune 27478-09-01 07:41 G 11757436.72 11757436.82 11757436.93 0.0088 0.0060

Jupiter 27478-10-23 15:50 G 11757489.05 11757489.16 11757489.28 0.0512 0.0375

Neptune 27478-11-28 09:07 G 11757524.78 11757524.88 11757525.00 0.0088 0.0053

Jupiter 27479-01-21 20:09 G 11757579.23 11757579.34 11757579.45 0.0516 0.0397

Neptune 27479-02-24 10:48 G 11757612.83 11757612.95 11757613.07 0.0088 0.0045

Neptune 27479-05-23 12:14 G 11757700.89 11757701.01 11757701.14 0.0088 0.0038

Neptune 27479-08-19 13:41 G 11757788.95 11757789.07 11757789.21 0.0088 0.0032

Neptune 27479-11-15 15:21 G 11757877.01 11757877.14 11757877.28 0.0088 0.0024

Neptune 27480-02-11 17:02 G 11757965.07 11757965.21 11757965.35 0.0088 0.0017

Neptune 27480-05-09 18:43 G 11758053.14 11758053.28 11758053.42 0.0088 0.0009

Mars 27480-07-06 16:05 G 11758111.04 11758111.17 11758111.30 0.1822 0.0798

Neptune 27480-08-05 20:09 G 11758141.20 11758141.34 11758141.48 0.0088 0.0002

Neptune 27480-11-01 21:50 G 11758229.27 11758229.41 11758229.55 0.0088 0.0005

Neptune 27481-01-28 23:17 G 11758317.33 11758317.47 11758317.62 0.0088 0.0013

Neptune 27481-04-27 00:57 G 11758405.40 11758405.54 11758405.68 0.0088 0.0020

Mars 27481-04-29 06:43 G 11758407.65 11758407.78 11758407.91 0.1721 0.0125

Neptune 27481-07-24 02:38 G 11758493.47 11758493.61 11758493.74 0.0088 0.0027

Neptune 27481-10-20 04:05 G 11758581.54 11758581.67 11758581.81 0.0088 0.0035

Neptune 27482-01-16 05:45 G 11758669.62 11758669.74 11758669.87 0.0088 0.0042

Neptune 27482-04-14 07:26 G 11758757.69 11758757.81 11758757.93 0.0088 0.0050

Neptune 27482-07-11 08:53 G 11758845.77 11758845.87 11758845.99 0.0088 0.0057

Moon 27482-09-01 06:57 G 11758897.66 11758897.79 11758897.92 0.2666 0.1091

Earth 27482-09-01 08:09 G 11758897.71 11758897.84 11758897.97 0.2663 0.1263 *

Neptune 27482-10-07 10:33 G 11758933.85 11758933.94 11758934.04 0.0088 0.0065

Neptune 27483-01-03 12:00 G 11759021.93 11759022.00 11759022.10 0.0088 0.0072

Neptune 27483-04-01 13:55 G 11759110.02 11759110.08 11759110.14 0.0088 0.0079

Neptune 27483-06-28 15:21 G 11759198.13 11759198.14 11759198.17 0.0088 0.0087

Jupiter 27484-06-12 08:09 G 11759547.71 11759547.84 11759547.97 0.0513 0.0091

Jupiter 27484-09-09 16:05 G 11759637.14 11759637.17 11759637.19 0.0510 0.0498

Moon 27485-03-03 14:24 G 11759812.00 11759812.10 11759812.20 0.2672 0.1091

Earth 27485-03-03 15:07 G 11759812.02 11759812.13 11759812.23 0.2668 0.1230 *

Mars 27489-11-26 18:43 G 11761541.14 11761541.28 11761541.41 0.1813 0.0571

Saturn 27490-09-17 09:36 G 11761835.83 11761835.90 11761835.98 0.0266 0.0222

Mars 27490-09-19 15:07 G 11761838.01 11761838.13 11761838.24 0.1728 0.0793

Jupiter 27490-11-09 18:57 G 11761889.14 11761889.29 11761889.45 0.0515 0.0211

Saturn 27490-12-14 20:53 G 11761924.25 11761924.37 11761924.50 0.0266 0.0127

Saturn 27491-03-13 08:24 G 11762012.71 11762012.85 11762012.99 0.0266 0.0031

Saturn 27491-06-09 19:55 G 11762101.19 11762101.33 11762101.47 0.0266 0.0066

Saturn 27491-09-06 07:41 G 11762189.71 11762189.82 11762189.93 0.0266 0.0165

Jupiter 27496-03-31 11:45 G 11763857.88 11763857.99 11763858.11 0.0514 0.0239

Jupiter 27496-06-28 19:26 G 11763947.22 11763947.31 11763947.41 0.0511 0.0350

Mars 27500-02-09 23:31 G 11765268.45 11765268.48 11765268.50 0.1736 0.1701

Jupiter 27502-08-29 17:31 G 11766199.06 11766199.23 11766199.40 0.0514 0.0018

Moon 27505-02-28 06:14 G 11767112.67 11767112.76 11767112.85 0.2663 0.1513

Earth 27505-02-28 06:43 G 11767112.69 11767112.78 11767112.88 0.2668 0.1409 *

Saturn 27505-07-21 10:33 G 11767255.93 11767255.94 11767255.97 0.0295 0.0293

Saturn 27505-10-18 08:38 G 11767344.70 11767344.86 11767345.01 0.0295 0.0126

Saturn 27506-01-15 05:45 G 11767433.57 11767433.74 11767433.91 0.0295 0.0039

Saturn 27506-04-14 02:24 G 11767522.48 11767522.60 11767522.73 0.0295 0.0198

Jupiter 27508-01-19 15:07 G 11768168.05 11768168.13 11768168.22 0.0516 0.0393

Jupiter 27508-04-17 22:48 G 11768257.32 11768257.45 11768257.57 0.0512 0.0195

Venus 27510-08-16 14:38 G 11769108.07 11769108.11 11769108.16 0.3691 0.3420

Uranus 27511-03-09 23:02 G 11769313.42 11769313.46 11769313.51 0.0145 0.0137

Uranus 27511-06-06 03:21 G 11769401.56 11769401.64 11769401.73 0.0145 0.0115

Mars 27511-06-08 22:48 G 11769404.36 11769404.45 11769404.54 0.1713 0.1177

Uranus 27511-09-02 07:41 G 11769489.72 11769489.82 11769489.94 0.0145 0.0093

Uranus 27511-11-29 12:14 G 11769577.89 11769578.01 11769578.14 0.0145 0.0071

Uranus 27512-02-25 16:33 G 11769666.06 11769666.19 11769666.33 0.0145 0.0049

Uranus 27512-05-23 21:07 G 11769754.24 11769754.38 11769754.52 0.0145 0.0026

Uranus 27512-08-20 01:41 G 11769842.42 11769842.57 11769842.71 0.0145 0.0003

Uranus 27512-11-16 06:14 G 11769930.61 11769930.76 11769930.90 0.0145 0.0020

Uranus 27513-02-12 10:48 G 11770018.81 11770018.95 11770019.09 0.0145 0.0043

Pluto 27513-03-19 09:50 G 11770053.84 11770053.91 11770054.02 0.0074 0.0066

Uranus 27513-05-11 15:21 G 11770107.01 11770107.14 11770107.27 0.0145 0.0067

Pluto 27513-06-15 12:43 G 11770141.89 11770142.03 11770142.19 0.0074 0.0048

Uranus 27513-08-07 19:55 G 11770195.22 11770195.33 11770195.45 0.0145 0.0090

Pluto 27513-09-11 15:21 G 11770229.96 11770230.14 11770230.33 0.0074 0.0031

Uranus 27513-11-04 00:43 G 11770283.44 11770283.53 11770283.62 0.0145 0.0114

Pluto 27513-12-08 18:00 G 11770318.06 11770318.25 11770318.45 0.0074 0.0014

Uranus 27514-01-31 05:17 G 11770371.68 11770371.72 11770371.77 0.0145 0.0137

Pluto 27514-03-06 20:38 G 11770406.16 11770406.36 11770406.56 0.0073 0.0004

Pluto 27514-06-02 23:17 G 11770494.28 11770494.47 11770494.66 0.0073 0.0021

Jupiter 27514-06-17 15:50 G 11770509.00 11770509.16 11770509.33 0.0513 0.0175

Pluto 27514-08-30 01:41 G 11770582.40 11770582.57 11770582.74 0.0073 0.0038

Pluto 27514-11-26 04:05 G 11770670.55 11770670.67 11770670.81 0.0073 0.0055

Pluto 27515-02-22 06:29 G 11770758.74 11770758.77 11770758.82 0.0073 0.0071

Moon 27515-08-31 09:21 G 11770948.75 11770948.89 11770949.03 0.2663 0.0867

Earth 27515-08-31 10:48 G 11770948.81 11770948.95 11770949.09 0.2664 0.0733 *

Venus 27516-03-01 13:26 G 11771131.94 11771132.06 11771132.19 0.3691 0.0863

Venus 27517-09-12 18:00 G 11771692.15 11771692.25 11771692.35 0.3679 0.1935

Moon 27518-03-03 00:29 G 11771863.41 11771863.52 11771863.63 0.2669 0.0058

Earth 27518-03-03 01:12 G 11771863.44 11771863.55 11771863.67 0.2668 0.0091 *

Mars 27520-01-06 16:33 G 11772538.07 11772538.19 11772538.31 0.1822 0.0983

Jupiter 27520-02-05 02:24 G 11772567.47 11772567.60 11772567.74 0.0513 0.0051

Saturn 27520-02-05 12:57 G 11772567.99 11772568.04 11772568.11 0.0265 0.0240

Saturn 27520-05-04 00:14 G 11772656.40 11772656.51 11772656.63 0.0265 0.0146

Saturn 27520-07-31 11:31 G 11772744.85 11772744.98 11772745.12 0.0265 0.0052

Saturn 27520-10-27 23:02 G 11772833.33 11772833.46 11772833.61 0.0265 0.0047

Mars 27520-10-29 06:57 G 11772834.66 11772834.79 11772834.91 0.1720 0.0256

Saturn 27521-01-24 10:48 G 11772921.83 11772921.95 11772922.07 0.0265 0.0145

Saturn 27521-04-22 22:48 G 11773010.40 11773010.45 11773010.50 0.0265 0.0245

Venus 27521-09-15 11:45 G 11773155.88 11773155.99 11773156.11 0.3692 0.1572

Venus 27523-03-29 12:57 G 11773715.93 11773716.04 11773716.16 0.3679 0.0092

Jupiter 27526-04-05 13:41 G 11774818.96 11774819.07 11774819.19 0.0512 0.0376

Jupiter 27526-07-04 18:00 G 11774909.14 11774909.25 11774909.35 0.0515 0.0395

Moon 27528-09-02 13:26 G 11775699.94 11775700.06 11775700.17 0.2668 0.1614

Earth 27528-09-02 14:24 G 11775699.99 11775700.10 11775700.21 0.2663 0.1755 *

Venus 27528-10-12 08:09 G 11775739.74 11775739.84 11775739.94 0.3678 0.1872

Mars 27529-05-28 18:57 G 11775968.15 11775968.29 11775968.43 0.1813 0.0406

Mars 27530-03-21 15:07 G 11776265.01 11776265.13 11776265.25 0.1728 0.0663

Moon 27531-03-05 19:26 G 11776614.22 11776614.31 11776614.41 0.2673 0.1508

Earth 27531-03-05 19:55 G 11776614.24 11776614.33 11776614.43 0.2668 0.1537 *

Jupiter 27531-11-24 06:29 G 11776877.64 11776877.77 11776877.90 0.0514 0.0092

Jupiter 27532-02-21 14:24 G 11776967.08 11776967.10 11776967.13 0.0511 0.0500

Saturn 27535-03-07 07:26 G 11778076.67 11778076.81 11778076.94 0.0295 0.0176

Saturn 27535-06-04 04:48 G 11778165.53 11778165.70 11778165.87 0.0295 0.0012

Saturn 27535-09-01 01:26 G 11778254.42 11778254.56 11778254.71 0.0295 0.0150

Earth 27538-02-26 17:17 G 11779164.19 11779164.22 11779164.26 0.2668 0.2533

Moon 27538-02-26 17:02 G 11779164.20 11779164.21 11779164.23 0.2661 0.2621 *

Jupiter 27538-04-22 16:48 G 11779219.05 11779219.20 11779219.36 0.0515 0.0208

Mars 27538-10-18 21:21 G 11779398.37 11779398.39 11779398.42 0.1805 0.1770

Mars 27539-08-11 23:31 G 11779695.43 11779695.48 11779695.53 0.1735 0.1582

Jupiter 27543-09-12 10:33 G 11781187.82 11781187.94 11781188.06 0.0514 0.0234

Jupiter 27543-12-10 18:14 G 11781277.16 11781277.26 11781277.35 0.0511 0.0354

Saturn 27549-09-21 01:41 G 11783388.48 11783388.57 11783388.68 0.0265 0.0182

Saturn 27549-12-18 13:12 G 11783476.92 11783477.05 11783477.18 0.0265 0.0086

Jupiter 27550-02-08 15:36 G 11783528.98 11783529.15 11783529.32 0.0514 0.0021

Saturn 27550-03-17 00:29 G 11783565.38 11783565.52 11783565.67 0.0265 0.0013

Saturn 27550-06-13 12:14 G 11783653.88 11783654.01 11783654.14 0.0265 0.0108

Saturn 27550-09-10 00:00 G 11783742.41 11783742.50 11783742.59 0.0265 0.0208

Mars 27550-12-07 22:48 G 11783831.37 11783831.45 11783831.53 0.1713 0.1298

Moon 27551-03-01 11:02 G 11783914.86 11783914.96 11783915.06 0.2665 0.1146

Earth 27551-03-01 11:45 G 11783914.89 11783914.99 11783915.09 0.2668 0.1106 *

Uranus 27552-10-04 23:02 G 11784498.41 11784498.46 11784498.52 0.0133 0.0125

Uranus 27553-01-01 04:33 G 11784586.59 11784586.69 11784586.81 0.0133 0.0103

Uranus 27553-03-30 10:19 G 11784674.80 11784674.93 11784675.07 0.0133 0.0081

Uranus 27553-06-26 15:50 G 11784763.02 11784763.16 11784763.33 0.0133 0.0060

Uranus 27553-09-22 21:36 G 11784851.24 11784851.40 11784851.57 0.0133 0.0039

Uranus 27553-12-20 03:07 G 11784939.46 11784939.63 11784939.80 0.0133 0.0017

Uranus 27554-03-18 08:38 G 11785027.69 11785027.86 11785028.03 0.0133 0.0004

Uranus 27554-06-14 13:55 G 11785115.92 11785116.08 11785116.25 0.0133 0.0025

Uranus 27554-09-10 19:12 G 11785204.15 11785204.30 11785204.47 0.0133 0.0045

Uranus 27554-12-08 00:43 G 11785292.38 11785292.53 11785292.68 0.0133 0.0065

Uranus 27555-03-06 05:45 G 11785380.62 11785380.74 11785380.88 0.0133 0.0086

Uranus 27555-06-02 11:02 G 11785468.87 11785468.96 11785469.07 0.0133 0.0106

Jupiter 27555-07-01 14:24 G 11785498.01 11785498.10 11785498.19 0.0515 0.0379

Uranus 27555-08-29 16:05 G 11785557.13 11785557.17 11785557.24 0.0133 0.0126

Jupiter 27555-09-28 21:50 G 11785587.28 11785587.41 11785587.53 0.0512 0.0207

Mars 27559-07-07 16:48 G 11786965.09 11786965.20 11786965.31 0.1822 0.1128

Mars 27560-04-29 06:57 G 11787261.67 11787261.79 11787261.92 0.1720 0.0392

Moon 27561-08-31 15:36 G 11787751.00 11787751.15 11787751.29 0.2664 0.0500

Earth 27561-08-31 16:48 G 11787751.06 11787751.20 11787751.35 0.2664 0.0251 *

Neptune 27561-08-31 23:45 G 11787751.47 11787751.49 11787751.55 0.0089 0.0087

Jupiter 27561-11-27 14:09 G 11787838.93 11787839.09 11787839.25 0.0513 0.0170

Neptune 27561-11-28 02:53 G 11787839.55 11787839.62 11787839.73 0.0089 0.0077

Neptune 27562-02-24 06:14 G 11787927.65 11787927.76 11787927.88 0.0089 0.0067

Neptune 27562-05-23 08:53 G 11788015.75 11788015.87 11788016.02 0.0089 0.0058

Neptune 27562-08-19 12:14 G 11788103.86 11788104.01 11788104.16 0.0089 0.0048

Neptune 27562-11-15 14:53 G 11788191.97 11788192.12 11788192.30 0.0089 0.0039

Neptune 27563-02-11 18:00 G 11788280.09 11788280.25 11788280.43 0.0089 0.0030

Neptune 27563-05-10 20:53 G 11788368.21 11788368.37 11788368.55 0.0089 0.0021

Neptune 27563-08-07 00:00 G 11788456.33 11788456.50 11788456.68 0.0089 0.0010

Neptune 27563-11-03 02:53 G 11788544.45 11788544.62 11788544.80 0.0089 0.0002

Neptune 27564-01-30 05:45 G 11788632.57 11788632.74 11788632.92 0.0089 0.0009

Moon 27564-03-03 05:31 G 11788665.61 11788665.73 11788665.84 0.2669 0.0235

Earth 27564-03-03 06:14 G 11788665.65 11788665.76 11788665.87 0.2668 0.0352 *

Neptune 27564-04-27 08:38 G 11788720.69 11788720.86 11788721.04 0.0089 0.0018

Saturn 27564-07-24 06:29 G 11788808.66 11788808.77 11788808.88 0.0295 0.0225

Neptune 27564-07-24 11:31 G 11788808.82 11788808.98 11788809.15 0.0089 0.0027 *

Neptune 27564-10-20 14:24 G 11788896.95 11788897.10 11788897.27 0.0089 0.0036

Saturn 27564-10-21 04:05 G 11788897.51 11788897.67 11788897.84 0.0295 0.0059

Neptune 27565-01-16 17:17 G 11788985.07 11788985.22 11788985.37 0.0089 0.0045

Saturn 27565-01-18 01:12 G 11788986.40 11788986.55 11788986.71 0.0295 0.0105

Neptune 27565-04-14 20:09 G 11789073.21 11789073.34 11789073.48 0.0089 0.0055

Saturn 27565-04-16 21:50 G 11789075.34 11789075.41 11789075.49 0.0295 0.0263

Neptune 27565-07-11 22:33 G 11789161.34 11789161.44 11789161.58 0.0089 0.0065

Neptune 27565-10-08 01:26 G 11789249.48 11789249.56 11789249.68 0.0089 0.0073

Neptune 27566-01-04 04:19 G 11789337.63 11789337.68 11789337.76 0.0089 0.0082

Venus 27567-03-23 14:09 G 11789781.00 11789781.09 11789781.18 0.3691 0.2558

Jupiter 27567-07-18 00:57 G 11789897.40 11789897.54 11789897.67 0.0513 0.0050

Venus 27568-10-03 21:36 G 11790341.34 11790341.40 11790341.46 0.3680 0.3120

Mars 27568-11-26 19:26 G 11790395.17 11790395.31 11790395.46 0.1814 0.0227

Mars 27569-09-19 15:21 G 11790692.02 11790692.14 11790692.26 0.1728 0.0533

Venus 27572-10-06 12:43 G 11791804.91 11791805.03 11791805.16 0.3692 0.0138

Jupiter 27573-09-15 12:43 G 11792148.90 11792149.03 11792149.15 0.0512 0.0362

Jupiter 27573-12-14 16:48 G 11792239.10 11792239.20 11792239.30 0.0515 0.0408

Venus 27574-04-19 16:19 G 11792365.08 11792365.18 11792365.29 0.3679 0.1309

Moon 27574-09-03 19:26 G 11792502.23 11792502.31 11792502.39 0.2669 0.2169

Earth 27574-09-03 20:24 G 11792502.27 11792502.35 11792502.43 0.2663 0.2236 *

Moon 27577-03-06 00:29 G 11793416.44 11793416.52 11793416.61 0.2674 0.1803

Earth 27577-03-06 00:57 G 11793416.46 11793416.54 11793416.62 0.2668 0.1844 *

Mars 27578-04-18 21:50 G 11793825.35 11793825.41 11793825.48 0.1805 0.1600

Venus 27578-04-22 11:02 G 11793828.87 11793828.96 11793829.06 0.3692 0.2366

Saturn 27579-02-08 05:02 G 11794120.62 11794120.71 11794120.80 0.0265 0.0201

Mars 27579-02-09 23:31 G 11794122.41 11794122.48 11794122.55 0.1735 0.1456

Jupiter 27579-05-06 04:48 G 11794207.57 11794207.70 11794207.83 0.0514 0.0096

Saturn 27579-05-07 16:19 G 11794209.05 11794209.18 11794209.31 0.0265 0.0107

Jupiter 27579-08-03 12:43 G 11794297.00 11794297.03 11794297.06 0.0511 0.0497

Saturn 27579-08-04 03:36 G 11794297.51 11794297.65 11794297.80 0.0265 0.0013

Saturn 27579-10-31 15:07 G 11794386.00 11794386.13 11794386.27 0.0265 0.0087

Venus 27579-11-03 11:31 G 11794388.86 11794388.98 11794389.09 0.3679 0.0589

Saturn 27580-01-28 02:53 G 11794474.52 11794474.62 11794474.73 0.0265 0.0186

Moon 27584-02-27 21:50 G 11795966.35 11795966.41 11795966.48 0.2661 0.2208

Earth 27584-02-27 22:19 G 11795966.37 11795966.43 11795966.49 0.2667 0.2238 *

Venus 27585-05-19 06:43 G 11796412.70 11796412.78 11796412.87 0.3678 0.2549

Jupiter 27585-10-02 14:53 G 11796548.97 11796549.12 11796549.28 0.0514 0.0212

Mars 27590-06-07 23:02 G 11798258.39 11798258.46 11798258.53 0.1713 0.1434

Jupiter 27591-02-22 08:53 G 11798517.75 11798517.87 11798517.99 0.0515 0.0235

Jupiter 27591-05-22 16:33 G 11798607.09 11798607.19 11798607.29 0.0512 0.0356

Saturn 27593-12-11 05:02 G 11799540.66 11799540.71 11799540.77 0.0295 0.0278

Saturn 27594-03-10 02:53 G 11799629.47 11799629.62 11799629.78 0.0295 0.0110

Saturn 27594-06-07 00:14 G 11799718.34 11799718.51 11799718.68 0.0295 0.0054

Moon 27594-08-29 17:45 G 11799802.20 11799802.24 11799802.28 0.2661 0.2567

Earth 27594-08-29 19:12 G 11799802.23 11799802.30 11799802.37 0.2664 0.2294 *

Saturn 27594-09-03 20:53 G 11799807.26 11799807.37 11799807.49 0.0295 0.0214

Uranus 27595-03-30 06:43 G 11800014.73 11800014.78 11800014.85 0.0145 0.0130

Uranus 27595-06-26 11:02 G 11800102.87 11800102.96 11800103.06 0.0145 0.0108

Uranus 27595-09-22 15:21 G 11800191.03 11800191.14 11800191.26 0.0145 0.0086

Uranus 27595-12-19 19:55 G 11800279.20 11800279.33 11800279.46 0.0145 0.0064

Uranus 27596-03-17 00:14 G 11800367.38 11800367.51 11800367.65 0.0145 0.0041

Uranus 27596-06-13 04:48 G 11800455.56 11800455.70 11800455.84 0.0145 0.0019

Uranus 27596-09-09 09:21 G 11800543.74 11800543.89 11800544.03 0.0145 0.0006

Uranus 27596-12-06 13:41 G 11800631.93 11800632.07 11800632.22 0.0145 0.0028

Moon 27597-03-01 15:50 G 11800717.06 11800717.16 11800717.27 0.2666 0.0973

Earth 27597-03-01 16:33 G 11800717.08 11800717.19 11800717.30 0.2668 0.0804 *

Uranus 27597-03-04 18:14 G 11800720.13 11800720.26 11800720.40 0.0145 0.0051

Uranus 27597-05-31 23:02 G 11800808.33 11800808.46 11800808.58 0.0145 0.0074

Jupiter 27597-07-21 13:41 G 11800858.90 11800859.07 11800859.24 0.0514 0.0025

Uranus 27597-08-28 03:21 G 11800896.54 11800896.64 11800896.76 0.0145 0.0098

Uranus 27597-11-24 07:55 G 11800984.77 11800984.83 11800984.92 0.0145 0.0122

Uranus 27598-02-20 12:57 G 11801073.03 11801073.04 11801073.05 0.0145 0.0145

Mars 27599-01-05 17:17 G 11801392.13 11801392.22 11801392.32 0.1823 0.1316

Mars 27599-10-29 07:12 G 11801688.68 11801688.80 11801688.92 0.1720 0.0513

Jupiter 27602-12-11 12:57 G 11802827.95 11802828.04 11802828.13 0.0516 0.0374

Jupiter 27603-03-10 20:24 G 11802917.23 11802917.35 11802917.48 0.0512 0.0213

Moon 27607-09-01 21:50 G 11804553.26 11804553.41 11804553.55 0.2666 0.0191

Earth 27607-09-01 23:02 G 11804553.32 11804553.46 11804553.61 0.2664 0.0271 *

Mars 27608-05-27 19:55 G 11804822.18 11804822.33 11804822.47 0.1814 0.0071

Saturn 27608-06-27 06:29 G 11804852.71 11804852.77 11804852.83 0.0265 0.0237

Saturn 27608-09-23 17:31 G 11804941.12 11804941.23 11804941.35 0.0265 0.0144

Saturn 27608-12-21 05:02 G 11805029.57 11805029.71 11805029.85 0.0265 0.0048

Saturn 27609-03-19 16:19 G 11805118.04 11805118.18 11805118.32 0.0265 0.0050

Mars 27609-03-20 15:21 G 11805119.01 11805119.14 11805119.26 0.1728 0.0409

Jupiter 27609-05-09 12:29 G 11805168.86 11805169.02 11805169.18 0.0513 0.0165

Saturn 27609-06-16 04:05 G 11805206.55 11805206.67 11805206.79 0.0265 0.0147

Saturn 27609-09-12 15:50 G 11805295.12 11805295.16 11805295.22 0.0265 0.0248

Moon 27610-03-04 10:33 G 11805467.83 11805467.94 11805468.05 0.2670 0.0602

Earth 27610-03-04 11:17 G 11805467.86 11805467.97 11805468.08 0.2668 0.0667 *

Jupiter 27614-12-28 00:14 G 11807227.38 11807227.51 11807227.64 0.0513 0.0068

Mars 27617-10-17 22:05 G 11808252.34 11808252.42 11808252.51 0.1805 0.1443

Mars 27618-08-10 23:45 G 11808549.41 11808549.49 11808549.57 0.1735 0.1320

Moon 27620-09-04 01:41 G 11809304.53 11809304.57 11809304.61 0.2669 0.2553

Jupiter 27621-02-25 11:02 G 11809478.84 11809478.96 11809479.09 0.0512 0.0354

Jupiter 27621-05-26 15:21 G 11809569.04 11809569.14 11809569.24 0.0515 0.0417

Moon 27623-03-07 05:31 G 11810218.67 11810218.73 11810218.80 0.2675 0.2117

Earth 27623-03-07 05:45 G 11810218.68 11810218.74 11810218.81 0.2668 0.2156 *

Saturn 27623-07-28 01:12 G 11810361.42 11810361.55 11810361.70 0.0296 0.0165

Saturn 27623-10-24 22:48 G 11810450.28 11810450.45 11810450.62 0.0296 0.0004

Venus 27623-10-28 13:41 G 11810453.95 11810454.07 11810454.18 0.3691 0.1710

Saturn 27624-01-21 19:55 G 11810539.19 11810539.33 11810539.47 0.0296 0.0164

Venus 27625-05-10 19:55 G 11811014.25 11811014.33 11811014.41 0.3680 0.2511

Jupiter 27626-10-16 03:21 G 11811537.51 11811537.64 11811537.77 0.0514 0.0090

Jupiter 27627-01-13 11:17 G 11811626.95 11811626.97 11811626.99 0.0511 0.0502

Venus 27629-05-13 12:00 G 11812477.88 11812478.00 11812478.13 0.3692 0.0794

Mars 27629-12-06 23:02 G 11812685.42 11812685.46 11812685.51 0.1713 0.1568

Moon 27630-02-28 02:38 G 11812768.54 11812768.61 11812768.68 0.2662 0.2045

Earth 27630-02-28 03:07 G 11812768.55 11812768.63 11812768.71 0.2667 0.1940 *

Venus 27630-11-24 14:53 G 11813038.00 11813038.12 11813038.23 0.3679 0.0687

Jupiter 27633-03-14 14:09 G 11813878.94 11813879.09 11813879.25 0.0514 0.0231

Venus 27634-11-27 10:05 G 11814501.86 11814501.92 11814501.99 0.3693 0.3146

Venus 27636-06-09 09:50 G 11815061.80 11815061.91 11815062.02 0.3678 0.1242

Uranus 27636-10-25 06:43 G 11815199.71 11815199.78 11815199.87 0.0133 0.0117

Uranus 27637-01-21 12:14 G 11815287.90 11815288.01 11815288.14 0.0133 0.0096

Uranus 27637-04-19 18:00 G 11815376.11 11815376.25 11815376.40 0.0133 0.0074

Uranus 27637-07-16 23:45 G 11815464.33 11815464.49 11815464.65 0.0133 0.0052

Uranus 27637-10-13 05:17 G 11815552.55 11815552.72 11815552.89 0.0133 0.0031

Saturn 27637-11-14 09:36 G 11815584.87 11815584.90 11815584.93 0.0265 0.0258

Uranus 27638-01-09 10:48 G 11815640.78 11815640.95 11815641.12 0.0133 0.0010

Saturn 27638-02-10 20:38 G 11815673.26 11815673.36 11815673.47 0.0265 0.0165

Uranus 27638-04-07 16:19 G 11815729.01 11815729.18 11815729.35 0.0133 0.0011

Saturn 27638-05-10 07:55 G 11815761.70 11815761.83 11815761.97 0.0265 0.0070

Uranus 27638-07-04 21:36 G 11815817.24 11815817.40 11815817.57 0.0133 0.0032

Mars 27638-07-06 17:45 G 11815819.16 11815819.24 11815819.32 0.1823 0.1489

Jupiter 27638-08-04 07:12 G 11815847.68 11815847.80 11815847.92 0.0515 0.0235

Saturn 27638-08-06 19:26 G 11815850.17 11815850.31 11815850.45 0.0265 0.0027

Uranus 27638-10-01 03:07 G 11815905.47 11815905.63 11815905.78 0.0133 0.0053

Jupiter 27638-11-01 14:53 G 11815937.03 11815937.12 11815937.22 0.0512 0.0356

Saturn 27638-11-03 06:57 G 11815938.67 11815938.79 11815938.92 0.0265 0.0124

Uranus 27638-12-28 08:09 G 11815993.71 11815993.84 11815993.99 0.0133 0.0073

Saturn 27639-01-30 18:43 G 11816027.21 11816027.28 11816027.36 0.0265 0.0224

Uranus 27639-03-26 13:26 G 11816081.95 11816082.06 11816082.19 0.0133 0.0093

Mars 27639-04-29 07:12 G 11816115.68 11816115.80 11816115.92 0.1720 0.0641

Uranus 27639-06-22 18:43 G 11816170.20 11816170.28 11816170.37 0.0133 0.0113

Moon 27640-08-30 00:00 G 11816604.40 11816604.50 11816604.60 0.2661 0.1877

Earth 27640-08-30 01:26 G 11816604.45 11816604.56 11816604.67 0.2664 0.1782 *

Venus 27641-12-24 05:17 G 11817085.66 11817085.72 11817085.77 0.3678 0.3222

Neptune 27642-06-12 00:57 G 11817255.51 11817255.54 11817255.57 0.0088 0.0086

Neptune 27642-09-08 02:24 G 11817343.54 11817343.60 11817343.67 0.0088 0.0079

Neptune 27642-12-05 03:50 G 11817431.59 11817431.66 11817431.75 0.0088 0.0072

Moon 27643-03-02 20:38 G 11817519.25 11817519.36 11817519.48 0.2666 0.0553

Earth 27643-03-02 21:36 G 11817519.29 11817519.40 11817519.51 0.2667 0.0502 *

Neptune 27643-03-03 05:31 G 11817519.64 11817519.73 11817519.83 0.0088 0.0064

Neptune 27643-05-30 06:57 G 11817607.69 11817607.79 11817607.90 0.0088 0.0057

Neptune 27643-08-26 08:24 G 11817695.74 11817695.85 11817695.97 0.0088 0.0050

Neptune 27643-11-22 10:05 G 11817783.80 11817783.92 11817784.05 0.0088 0.0043

Neptune 27644-02-18 11:31 G 11817871.86 11817871.98 11817872.12 0.0088 0.0036

Neptune 27644-05-16 13:12 G 11817959.92 11817960.05 11817960.19 0.0088 0.0029

Neptune 27644-08-12 14:53 G 11818047.98 11818048.12 11818048.26 0.0088 0.0021

Neptune 27644-11-08 16:19 G 11818136.04 11818136.18 11818136.32 0.0088 0.0014

Jupiter 27644-12-31 12:29 G 11818188.84 11818189.02 11818189.19 0.0513 0.0036

Neptune 27645-02-04 18:00 G 11818224.11 11818224.25 11818224.39 0.0088 0.0007

Neptune 27645-05-03 19:26 G 11818312.17 11818312.31 11818312.46 0.0088 0.0002

Neptune 27645-07-30 21:07 G 11818400.24 11818400.38 11818400.52 0.0088 0.0008

Neptune 27645-10-26 22:33 G 11818488.30 11818488.44 11818488.59 0.0088 0.0015

Neptune 27646-01-23 00:14 G 11818576.37 11818576.51 11818576.65 0.0088 0.0022

Neptune 27646-04-21 01:55 G 11818664.44 11818664.58 11818664.71 0.0088 0.0030

Neptune 27646-07-18 03:21 G 11818752.51 11818752.64 11818752.77 0.0088 0.0037

Neptune 27646-10-14 05:02 G 11818840.59 11818840.71 11818840.83 0.0088 0.0044

Neptune 27647-01-10 06:29 G 11818928.66 11818928.77 11818928.89 0.0088 0.0052

Neptune 27647-04-08 08:09 G 11819016.74 11819016.84 11819016.95 0.0088 0.0059

Neptune 27647-07-05 09:36 G 11819104.82 11819104.90 11819105.01 0.0088 0.0067

Neptune 27647-10-01 11:17 G 11819192.91 11819192.97 11819193.06 0.0088 0.0074

Mars 27647-11-26 20:24 G 11819249.20 11819249.35 11819249.49 0.1814 0.0124

Neptune 27647-12-28 13:12 G 11819281.00 11819281.05 11819281.10 0.0088 0.0082

Mars 27648-09-18 15:36 G 11819546.02 11819546.15 11819546.27 0.1727 0.0281

Jupiter 27650-05-23 11:31 G 11820157.89 11820157.98 11820158.07 0.0516 0.0373

Jupiter 27650-08-20 18:57 G 11820247.17 11820247.29 11820247.41 0.0513 0.0215

Saturn 27652-12-13 23:45 G 11821093.38 11821093.49 11821093.61 0.0295 0.0218

Saturn 27653-03-12 21:21 G 11821182.23 11821182.39 11821182.56 0.0295 0.0052

Saturn 27653-06-09 18:29 G 11821271.12 11821271.27 11821271.43 0.0295 0.0112

Moon 27653-09-02 04:05 G 11821355.52 11821355.67 11821355.81 0.2667 0.0500

Earth 27653-09-02 05:17 G 11821355.58 11821355.72 11821355.86 0.2664 0.0754 *

Saturn 27653-09-06 15:07 G 11821360.07 11821360.13 11821360.20 0.0295 0.0271

Moon 27656-03-04 15:36 G 11822270.04 11822270.15 11822270.26 0.2672 0.0836

Earth 27656-03-04 16:05 G 11822270.07 11822270.17 11822270.28 0.2668 0.0971 *

Jupiter 27656-10-19 11:02 G 11822498.79 11822498.96 11822499.12 0.0513 0.0157

Mars 27657-04-17 22:48 G 11822679.34 11822679.45 11822679.55 0.1805 0.1259

Mars 27658-02-08 23:45 G 11822976.40 11822976.49 11822976.58 0.1735 0.1207

Jupiter 27662-03-11 15:36 G 11824468.14 11824468.15 11824468.17 0.0517 0.0511

Jupiter 27662-06-08 23:02 G 11824557.33 11824557.46 11824557.59 0.0513 0.0075

Saturn 27667-06-30 21:50 G 11826405.33 11826405.41 11826405.51 0.0265 0.0202

Saturn 27667-09-27 09:07 G 11826493.75 11826493.88 11826494.01 0.0265 0.0108

Saturn 27667-12-24 20:24 G 11826582.21 11826582.35 11826582.49 0.0265 0.0013

Saturn 27668-03-22 07:55 G 11826670.70 11826670.83 11826670.97 0.0265 0.0085

Saturn 27668-06-18 19:41 G 11826759.22 11826759.32 11826759.42 0.0265 0.0184

Jupiter 27668-08-07 09:36 G 11826808.77 11826808.90 11826809.03 0.0512 0.0347

Jupiter 27668-11-05 13:55 G 11826898.99 11826899.08 11826899.17 0.0516 0.0426

Moon 27669-03-07 10:33 G 11827020.90 11827020.94 11827020.98 0.2675 0.2474

Earth 27669-03-07 10:48 G 11827020.91 11827020.95 11827020.99 0.2668 0.2467 *

Mars 27669-06-06 23:17 G 11827112.45 11827112.47 11827112.48 0.1713 0.1694

Jupiter 27674-03-28 02:53 G 11828867.49 11828867.62 11828867.76 0.0514 0.0070

Venus 27674-11-18 14:09 G 11829103.04 11829103.09 11829103.13 0.3691 0.3448

Pluto 27675-03-07 03:07 G 11829211.62 11829211.63 11829211.68 0.0070 0.0068

Pluto 27675-06-03 03:50 G 11829299.60 11829299.66 11829299.74 0.0070 0.0058

Pluto 27675-08-30 04:19 G 11829387.60 11829387.68 11829387.79 0.0070 0.0049

Pluto 27675-11-26 05:02 G 11829475.61 11829475.71 11829475.83 0.0070 0.0039

Pluto 27676-02-22 05:45 G 11829563.62 11829563.74 11829563.86 0.0070 0.0029

Moon 27676-02-29 07:26 G 11829570.72 11829570.81 11829570.90 0.2663 0.1686

Earth	27676-02-29 07:55 G	11829570.75	11829570.83	11829570.92	0.2667	0.1649 *
Pluto	27676-05-20 06:14 G	11829651.64	11829651.76	11829651.89	0.0070	0.0020
Pluto	27676-08-16 06:57 G	11829739.66	11829739.79	11829739.92	0.0070	0.0010
Pluto	27676-11-12 07:26 G	11829827.68	11829827.81	11829827.94	0.0070	0.0001
Pluto	27677-02-08 07:55 G	11829915.71	11829915.83	11829915.97	0.0070	0.0011
Pluto	27677-05-07 08:24 G	11830003.74	11830003.85	11830003.99	0.0071	0.0021
Pluto	27677-08-03 09:07 G	11830091.77	11830091.88	11830092.00	0.0071	0.0030
Pluto	27677-10-30 09:50 G	11830179.80	11830179.91	11830180.02	0.0071	0.0040
Mars	27678-01-04 18:00 G	11830246.19	11830246.25	11830246.31	0.1823	0.1644
Pluto	27678-01-26 10:05 G	11830267.84	11830267.92	11830268.03	0.0071	0.0051
Pluto	27678-04-24 10:33 G	11830355.89	11830355.94	11830356.03	0.0071	0.0061
Pluto	27678-07-21 11:31 G	11830443.98	11830443.98	11830443.99	0.0071	0.0071
Mars	27678-10-28 07:26 G	11830542.70	11830542.81	11830542.93	0.1720	0.0780
Uranus	27679-01-21 10:19 G	11830627.92	11830627.93	11830627.96	0.0145	0.0143
Uranus	27679-04-19 14:38 G	11830716.04	11830716.11	11830716.19	0.0145	0.0122
Uranus	27679-07-16 19:12 G	11830804.20	11830804.30	11830804.40	0.0145	0.0099
Uranus	27679-10-12 23:31 G	11830892.36	11830892.48	11830892.60	0.0145	0.0077
Uranus	27680-01-09 03:50 G	11830980.53	11830980.66	11830980.79	0.0145	0.0055
Uranus	27680-04-06 08:24 G	11831068.71	11831068.85	11831068.99	0.0145	0.0033
Venus	27680-06-03 12:57 G	11831126.92	11831127.04	11831127.16	0.3692	0.0869
Uranus	27680-07-03 12:43 G	11831156.89	11831157.03	11831157.18	0.0145	0.0010
Jupiter	27680-08-24 12:57 G	11831208.90	11831209.04	11831209.19	0.0514	0.0243
Uranus	27680-09-29 17:17 G	11831245.08	11831245.22	11831245.36	0.0145	0.0013
Uranus	27680-12-26 21:50 G	11831333.27	11831333.41	11831333.55	0.0145	0.0036
Uranus	27681-03-25 02:24 G	11831421.47	11831421.60	11831421.73	0.0145	0.0060
Uranus	27681-06-21 06:57 G	11831509.67	11831509.79	11831509.91	0.0145	0.0083
Uranus	27681-09-17 11:31 G	11831597.89	11831597.98	11831598.08	0.0145	0.0107
Uranus	27681-12-14 16:05 G	11831686.12	11831686.17	11831686.24	0.0145	0.0131
Venus	27681-12-15 18:14 G	11831687.16	11831687.26	11831687.36	0.3680	0.1901
Saturn	27682-05-02 20:53 G	11831825.33	11831825.37	11831825.43	0.0296	0.0281

Saturn 27682-07-30 18:57 G 11831914.13 11831914.29 11831914.45 0.0296 0.0111

Saturn 27682-10-27 16:19 G 11832003.02 11832003.18 11832003.35 0.0296 0.0054

Saturn 27683-01-24 13:12 G 11832091.94 11832092.05 11832092.17 0.0296 0.0215

Venus 27685-12-18 11:17 G 11833150.86 11833150.97 11833151.09 0.3692 0.1596

Jupiter 27686-01-14 06:00 G 11833177.63 11833177.75 11833177.87 0.0515 0.0228

Jupiter 27686-04-13 13:41 G 11833266.98 11833267.07 11833267.17 0.0512 0.0363

Moon 27686-08-31 06:14 G 11833406.64 11833406.76 11833406.88 0.2663 0.1504

Earth 27686-08-31 07:41 G 11833406.69 11833406.82 11833406.95 0.2664 0.1271 *

Mars 27687-05-27 20:38 G 11833676.22 11833676.36 11833676.51 0.1815 0.0285

Venus 27687-07-01 13:12 G 11833710.93 11833711.05 11833711.16 0.3679 0.0067

Mars 27688-03-19 15:36 G 11833973.02 11833973.15 11833973.28 0.1727 0.0151

Moon 27689-03-03 01:41 G 11834321.46 11834321.57 11834321.68 0.2667 0.0373

Earth 27689-03-03 02:24 G 11834321.49 11834321.60 11834321.72 0.2667 0.0206 *

Jupiter 27692-06-12 12:00 G 11835518.83 11835519.00 11835519.17 0.0513 0.0057

Venus 27693-01-14 08:24 G 11835734.75 11835734.85 11835734.95 0.3678 0.1906

Mars 27696-10-16 23:17 G 11837106.35 11837106.47 11837106.59 0.1806 0.1081

Saturn 27696-11-17 00:57 G 11837137.47 11837137.54 11837137.61 0.0265 0.0224

Saturn 27697-02-13 12:00 G 11837225.88 11837226.00 11837226.12 0.0264 0.0130

Saturn 27697-05-12 23:17 G 11837314.33 11837314.47 11837314.61 0.0264 0.0035

Saturn 27697-08-09 10:48 G 11837402.81 11837402.95 11837403.09 0.0264 0.0062

Mars 27697-08-10 00:00 G 11837403.40 11837403.50 11837403.59 0.1735 0.1076

Jupiter 27697-11-02 09:50 G 11837487.82 11837487.91 11837488.01 0.0516 0.0372

Saturn 27697-11-05 22:19 G 11837491.32 11837491.43 11837491.55 0.0264 0.0160

Jupiter 27698-01-30 17:31 G 11837577.11 11837577.23 11837577.35 0.0513 0.0217

Saturn 27698-02-02 10:19 G 11837579.90 11837579.93 11837579.95 0.0264 0.0260

Moon 27699-09-03 10:05 G 11838157.79 11838157.92 11838158.05 0.2668 0.1186

Earth 27699-09-03 11:31 G 11838157.85 11838157.98 11838158.11 0.2664 0.1248 *

Moon 27702-03-06 20:38 G 11839072.26 11839072.36 11839072.46 0.2673 0.1277

Earth 27702-03-06 21:07 G 11839072.28 11839072.38 11839072.48 0.2668 0.1277 *

Jupiter 27704-04-01 09:50 G 11839828.75 11839828.91 11839829.08 0.0513 0.0143

Jupiter 27709-08-22 14:09 G 11841798.07 11841798.09 11841798.11 0.0517 0.0509

Jupiter 27709-11-19 21:36 G 11841887.27 11841887.40 11841887.53 0.0514 0.0078

Saturn 27711-12-18 17:31 G 11842646.09 11842646.23 11842646.38 0.0296 0.0165

Saturn 27712-03-16 15:07 G 11842734.96 11842735.13 11842735.30 0.0296 0.0003

Saturn 27712-06-13 12:00 G 11842823.87 11842824.00 11842824.15 0.0296 0.0165

Jupiter 27716-01-19 08:24 G 11844138.72 11844138.85 11844138.98 0.0512 0.0334

Jupiter 27716-04-18 12:29 G 11844228.94 11844229.02 11844229.11 0.0515 0.0437

Mars 27717-07-06 18:29 G 11844673.27 11844673.27 11844673.27 0.1823 0.1820

Mars 27718-04-29 07:26 G 11844969.70 11844969.81 11844969.92 0.1720 0.0900

Uranus 27720-08-19 08:38 G 11845812.84 11845812.86 11845812.90 0.0133 0.0131

Uranus 27720-11-15 14:38 G 11845901.01 11845901.11 11845901.21 0.0133 0.0109

Uranus 27721-02-11 20:09 G 11845989.21 11845989.34 11845989.48 0.0133 0.0087

Uranus 27721-05-11 01:55 G 11846077.43 11846077.58 11846077.73 0.0133 0.0066

Uranus 27721-08-07 07:26 G 11846165.65 11846165.81 11846165.97 0.0133 0.0044

Jupiter 27721-09-08 01:41 G 11846197.44 11846197.57 11846197.71 0.0514 0.0062

Uranus 27721-11-03 12:57 G 11846253.87 11846254.04 11846254.21 0.0133 0.0023

Uranus 27722-01-30 18:29 G 11846342.10 11846342.27 11846342.44 0.0133 0.0002

Moon 27722-03-02 12:14 G 11846372.92 11846373.01 11846373.11 0.2664 0.1457

Earth 27722-03-02 12:57 G 11846372.94 11846373.04 11846373.14 0.2667 0.1345 *

Uranus 27722-04-28 23:45 G 11846430.33 11846430.49 11846430.67 0.0133 0.0019

Uranus 27722-07-26 05:17 G 11846518.56 11846518.72 11846518.89 0.0133 0.0039

Uranus 27722-10-22 10:33 G 11846606.79 11846606.94 11846607.10 0.0133 0.0060

Uranus 27723-01-18 15:50 G 11846695.03 11846695.16 11846695.30 0.0133 0.0081

Uranus 27723-04-16 20:53 G 11846783.28 11846783.37 11846783.50 0.0133 0.0101

Uranus 27723-07-14 02:09 G 11846871.54 11846871.59 11846871.67 0.0133 0.0121

Saturn 27726-04-07 02:09 G 11847869.57 11847869.59 11847869.61 0.0265 0.0261

Neptune 27726-05-29 21:50 G 11847922.38 11847922.41 11847922.48 0.0089 0.0085

Saturn 27726-07-04 13:12 G 11847957.94 11847958.05 11847958.16 0.0265 0.0168

Neptune 27726-08-26 00:57 G 11848010.46 11848010.54 11848010.65 0.0089 0.0075

Saturn 27726-10-01 00:29 G 11848046.38 11848046.52 11848046.65 0.0265 0.0074

Neptune 27726-11-22 04:19 G 11848098.56 11848098.68 11848098.80 0.0089 0.0065

Mars 27726-11-26 21:07 G 11848103.24 11848103.38 11848103.52 0.1814 0.0459

Saturn 27726-12-28 11:45 G 11848134.85 11848134.99 11848135.13 0.0265 0.0023

Neptune 27727-02-18 06:57 G 11848186.67 11848186.79 11848186.94 0.0089 0.0056

Saturn 27727-03-26 23:17 G 11848223.34 11848223.47 11848223.60 0.0265 0.0120

Neptune 27727-05-17 10:19 G 11848274.78 11848274.93 11848275.08 0.0089 0.0046

Saturn 27727-06-23 10:48 G 11848311.88 11848311.95 11848312.04 0.0265 0.0220

Neptune 27727-08-13 12:57 G 11848362.89 11848363.04 11848363.22 0.0089 0.0037

Mars 27727-09-19 15:36 G 11848400.03 11848400.15 11848400.28 0.1727 0.0064

Neptune 27727-11-09 16:05 G 11848451.01 11848451.17 11848451.35 0.0089 0.0028

Jupiter 27728-02-05 11:31 G 11848538.84 11848538.98 11848539.13 0.0515 0.0253

Neptune 27728-02-05 18:57 G 11848539.13 11848539.29 11848539.47 0.0089 0.0019 *

Neptune 27728-05-03 22:05 G 11848627.25 11848627.42 11848627.60 0.0089 0.0008

Neptune 27728-07-31 00:57 G 11848715.37 11848715.54 11848715.72 0.0089 0.0003

Neptune 27728-10-27 04:05 G 11848803.49 11848803.67 11848803.84 0.0089 0.0011

Neptune 27729-01-23 06:43 G 11848891.61 11848891.78 11848891.96 0.0089 0.0020

Neptune 27729-04-21 09:36 G 11848979.74 11848979.90 11848980.07 0.0089 0.0029

Neptune 27729-07-18 12:29 G 11849067.87 11849068.02 11849068.19 0.0089 0.0039

Neptune 27729-10-14 15:36 G 11849156.00 11849156.15 11849156.29 0.0089 0.0048

Neptune 27730-01-10 18:00 G 11849244.13 11849244.25 11849244.40 0.0089 0.0057

Neptune 27730-04-08 20:53 G 11849332.27 11849332.37 11849332.50 0.0089 0.0066

Neptune 27730-07-05 23:45 G 11849420.41 11849420.49 11849420.59 0.0089 0.0075

Neptune 27730-10-02 02:24 G 11849508.56 11849508.60 11849508.67 0.0089 0.0085

Venus 27731-06-26 13:26 G 11849775.97 11849776.06 11849776.15 0.3691 0.2593

Moon 27732-09-01 12:29 G 11850208.88 11850209.02 11850209.16 0.2665 0.0935

Earth 27732-09-01 13:55 G 11850208.94 11850209.08 11850209.22 0.2664 0.0765 *

Venus 27733-01-06 21:50 G 11850336.35 11850336.41 11850336.47 0.3680 0.3094

Jupiter 27733-06-27 05:45 G 11850507.62 11850507.74 11850507.86 0.0515 0.0204

Jupiter 27733-09-24 13:26 G 11850596.97 11850597.06 11850597.15 0.0512 0.0387

Moon 27735-03-05 06:43 G 11851123.66 11851123.78 11851123.89 0.2668 0.0079

Earth 27735-03-05 07:26 G 11851123.69 11851123.81 11851123.92 0.2667 0.0108 *

Mars 27736-04-17 23:31 G 11851533.35 11851533.48 11851533.60 0.1806 0.0927

Venus 27737-01-09 12:14 G 11851799.88 11851800.01 11851800.14 0.3692 0.0053

Mars 27737-02-09 00:00 G 11851830.40 11851830.50 11851830.61 0.1735 0.0942

Venus 27738-07-23 16:33 G 11852360.08 11852360.19 11852360.30 0.3679 0.1274

Jupiter 27739-11-24 10:48 G 11852848.78 11852848.95 11852849.12 0.0514 0.0072

Saturn 27741-05-06 14:09 G 11853377.99 11853378.09 11853378.20 0.0296 0.0232

Saturn 27741-08-03 12:00 G 11853466.84 11853467.00 11853467.17 0.0296 0.0063

Saturn 27741-10-31 09:21 G 11853555.73 11853555.89 11853556.05 0.0296 0.0102

Saturn 27742-01-28 06:00 G 11853644.68 11853644.75 11853644.83 0.0296 0.0262

Venus 27742-07-26 10:33 G 11853823.84 11853823.94 11853824.03 0.3692 0.2377

Venus 27744-02-06 11:31 G 11854383.86 11854383.98 11854384.09 0.3679 0.0612

Jupiter 27745-04-15 08:53 G 11854817.78 11854817.87 11854817.96 0.0516 0.0362

Jupiter 27745-07-13 16:19 G 11854907.06 11854907.18 11854907.30 0.0513 0.0227

Moon 27745-09-04 16:19 G 11854960.07 11854960.18 11854960.30 0.2668 0.1516

Earth 27745-09-04 17:31 G 11854960.12 11854960.23 11854960.34 0.2664 0.1739 *

Moon 27748-03-07 01:26 G 11855874.47 11855874.56 11855874.66 0.2673 0.1451

Earth 27748-03-07 01:55 G 11855874.49 11855874.58 11855874.67 0.2668 0.1582 *

Venus 27749-08-22 06:43 G 11856407.70 11856407.78 11856407.86 0.3678 0.2577

Jupiter 27751-09-12 09:36 G 11857158.74 11857158.90 11857159.07 0.0513 0.0117

Moon 27755-02-28 23:17 G 11858424.43 11858424.47 11858424.51 0.2661 0.2473

Earth 27755-02-28 23:31 G 11858424.44 11858424.48 11858424.52 0.2667 0.2473 *

Saturn 27755-11-21 15:50 G 11858690.07 11858690.16 11858690.26 0.0264 0.0192

Saturn 27756-02-18 03:07 G 11858778.50 11858778.63 11858778.76 0.0264 0.0097

Saturn 27756-05-16 14:24 G 11858866.96 11858867.10 11858867.25 0.0264 0.0008

Saturn 27756-08-13 01:55 G 11858955.45 11858955.58 11858955.72 0.0264 0.0096

Saturn 27756-11-09 13:41 G 11859043.97 11859044.07 11859044.17 0.0264 0.0194

Jupiter 27757-02-01 12:43 G 11859128.01 11859128.03 11859128.06 0.0517 0.0506

Jupiter 27757-05-01 20:09 G 11859217.21 11859217.34 11859217.47 0.0514 0.0080

Mars 27757-10-28 07:41 G 11859396.72 11859396.82 11859396.92 0.1719 0.1032

Pluto 27761-04-15 15:21 G 11860662.09 11860662.14 11860662.25 0.0074 0.0068

Pluto 27761-07-12 18:14 G 11860750.13 11860750.26 11860750.42 0.0074 0.0050

Pluto 27761-10-08 20:53 G 11860838.21 11860838.37 11860838.57 0.0074 0.0033

Pluto 27762-01-04 23:31 G 11860926.30 11860926.48 11860926.69 0.0074 0.0016

Pluto 27762-04-03 02:24 G 11861014.40 11861014.60 11861014.80 0.0074 0.0002

Pluto 27762-06-30 04:48 G 11861102.52 11861102.70 11861102.90 0.0073 0.0019

Pluto 27762-09-26 07:12 G 11861190.64 11861190.80 11861190.99 0.0073 0.0037

Pluto 27762-12-23 09:36 G 11861278.79 11861278.90 11861279.06 0.0073 0.0054

Uranus 27763-02-11 18:00 G 11861329.21 11861329.25 11861329.30 0.0145 0.0136

Pluto 27763-03-21 12:00 G 11861366.97 11861367.00 11861367.08 0.0073 0.0070

Uranus 27763-05-10 22:19 G 11861417.35 11861417.43 11861417.52 0.0145 0.0115

Jupiter 27763-07-01 07:26 G 11861468.68 11861468.81 11861468.95 0.0512 0.0316

Uranus 27763-08-07 02:38 G 11861505.51 11861505.61 11861505.72 0.0145 0.0093

Jupiter 27763-09-29 11:45 G 11861558.91 11861558.99 11861559.07 0.0515 0.0453

Uranus 27763-11-03 06:57 G 11861593.67 11861593.79 11861593.92 0.0145 0.0071

Uranus 27764-01-30 11:31 G 11861681.85 11861681.98 11861682.12 0.0145 0.0048

Uranus 27764-04-27 15:50 G 11861770.02 11861770.16 11861770.31 0.0145 0.0026

Uranus 27764-07-24 20:24 G 11861858.21 11861858.35 11861858.50 0.0145 0.0003

Uranus 27764-10-21 00:57 G 11861946.40 11861946.54 11861946.68 0.0145 0.0021

Uranus 27765-01-17 05:31 G 11862034.59 11862034.73 11862034.87 0.0145 0.0044

Uranus 27765-04-15 09:50 G 11862122.79 11862122.91 11862123.05 0.0146 0.0068

Uranus 27765-07-12 14:38 G 11862211.00 11862211.11 11862211.22 0.0146 0.0091

Uranus 27765-10-08 19:12 G 11862299.22 11862299.30 11862299.39 0.0146 0.0114

Uranus 27766-01-04 23:45 G 11862387.46 11862387.49 11862387.54 0.0146 0.0139

Mars 27766-05-27 21:36 G 11862530.26 11862530.40 11862530.53 0.1815 0.0625

Mars 27767-03-20 15:50 G 11862827.03 11862827.16 11862827.29 0.1727 0.0108

Moon 27768-03-02 17:02 G 11863175.11 11863175.21 11863175.32 0.2664 0.1135

Earth 27768-03-02 17:45 G 11863175.14 11863175.24 11863175.35 0.2667 0.1049 *

Jupiter 27769-02-18 00:14 G 11863527.38 11863527.51 11863527.65 0.0515 0.0059

Saturn 27770-09-23 12:43 G 11864109.99 11864110.03 11864110.07 0.0296 0.0286

Saturn 27770-12-21 10:33 G 11864198.79 11864198.94 11864199.10 0.0296 0.0117

Saturn 27771-03-20 08:09 G 11864287.67 11864287.84 11864288.00 0.0296 0.0050

Saturn 27771-06-17 05:02 G 11864376.59 11864376.71 11864376.82 0.0296 0.0211

Jupiter 27775-04-19 05:45 G 11865778.73 11865778.74 11865778.76 0.0511 0.0508

Jupiter 27775-07-18 10:33 G 11865868.80 11865868.94 11865869.09 0.0514 0.0266

Mars 27775-10-18 00:00 G 11865960.37 11865960.50 11865960.64 0.1806 0.0739

Mars 27776-08-10 00:00 G 11866257.39 11866257.50 11866257.61 0.1734 0.0823

Moon 27778-09-02 18:43 G 11867011.13 11867011.28 11867011.42 0.2666 0.0432

Earth 27778-09-02 20:09 G 11867011.19 11867011.34 11867011.49 0.2664 0.0259 *

Jupiter 27780-12-07 04:33 G 11867837.57 11867837.69 11867837.81 0.0515 0.0196

Moon 27781-03-05 11:31 G 11867925.87 11867925.98 11867926.10 0.2670 0.0299

Earth 27781-03-05 12:14 G 11867925.90 11867926.01 11867926.13 0.2667 0.0417 *

Jupiter 27781-03-06 12:14 G 11867926.93 11867927.01 11867927.10 0.0512 0.0395

Saturn 27785-04-09 17:17 G 11869422.16 11869422.22 11869422.29 0.0264 0.0228

Saturn 27785-07-07 04:19 G 11869510.56 11869510.68 11869510.80 0.0264 0.0134

Saturn 27785-10-03 15:36 G 11869599.01 11869599.15 11869599.29 0.0264 0.0039

Saturn 27785-12-31 03:07 G 11869687.49 11869687.63 11869687.76 0.0264 0.0057

Saturn 27786-03-29 14:24 G 11869775.99 11869776.10 11869776.22 0.0264 0.0156

Saturn 27786-06-26 02:09 G 11869864.56 11869864.59 11869864.64 0.0264 0.0255

Jupiter 27787-05-06 09:21 G 11870178.73 11870178.89 11870179.06 0.0514 0.0082

Venus 27788-01-31 12:57 G 11870448.93 11870449.04 11870449.15 0.3691 0.1733

Venus 27789-08-13 20:09 G 11871009.25 11871009.34 11871009.42 0.3680 0.2486

Moon 27791-09-05 22:48 G 11871762.37 11871762.45 11871762.53 0.2668 0.2168

Earth 27791-09-05 23:45 G 11871762.41 11871762.49 11871762.57 0.2664 0.2230 *

Jupiter 27792-09-25 08:38 G 11872147.76 11872147.86 11872147.96 0.0516 0.0337

Jupiter 27792-12-23 16:05 G 11872237.06 11872237.17 11872237.29 0.0513 0.0252

Venus 27793-08-16 11:31 G 11872472.86 11872472.98 11872473.10 0.3692 0.0777

Moon 27794-03-08 06:29 G 11872676.69 11872676.77 11872676.85 0.2673 0.1898

Earth 27794-03-08 06:57 G 11872676.71 11872676.79 11872676.87 0.2667 0.1891 *

Venus 27795-02-27 14:53 G 11873033.01 11873033.12 11873033.23 0.3679 0.0640

Mars 27797-04-28 07:55 G 11873823.73 11873823.83 11873823.92 0.1719 0.1170

Jupiter 27799-02-22 08:38 G 11874488.69 11874488.86 11874489.03 0.0513 0.0101

Venus 27799-03-02 09:36 G 11874496.84 11874496.90 11874496.96 0.3693 0.3167

Saturn 27800-05-10 06:57 G 11874930.66 11874930.79 11874930.92 0.0296 0.0186

Saturn 27800-08-07 04:33 G 11875019.52 11875019.69 11875019.86 0.0296 0.0019

Venus 27800-09-13 09:50 G 11875056.80 11875056.91 11875057.02 0.3678 0.1280

Saturn 27800-11-04 01:41 G 11875108.43 11875108.57 11875108.72 0.0296 0.0147

Moon 27801-03-02 03:50 G 11875226.61 11875226.66 11875226.72 0.2661 0.2277

Earth 27801-03-02 04:19 G 11875226.62 11875226.68 11875226.74 0.2667 0.2179 *

Jupiter 27804-07-15 11:45 G 11876457.96 11876457.99 11876458.03 0.0517 0.0495

Uranus 27804-09-09 16:33 G 11876514.13 11876514.19 11876514.27 0.0133 0.0122

Jupiter 27804-10-12 19:12 G 11876547.16 11876547.30 11876547.43 0.0514 0.0092

Uranus 27804-12-06 22:19 G 11876602.32 11876602.43 11876602.55 0.0133 0.0100

Uranus 27805-03-05 03:50 G 11876690.53 11876690.66 11876690.81 0.0133 0.0079

Uranus 27805-06-01 09:50 G 11876778.75 11876778.91 11876779.06 0.0133 0.0057

Uranus 27805-08-28 15:21 G 11876866.97 11876867.14 11876867.30 0.0133 0.0036

Uranus 27805-11-24 20:53 G 11876955.20 11876955.37 11876955.54 0.0133 0.0015

Mars 27805-11-26 22:05 G 11876957.29 11876957.42 11876957.55 0.1815 0.0805

Uranus 27806-02-21 02:09 G 11877043.42 11877043.59 11877043.77 0.0133 0.0007

Venus 27806-03-30 05:17 G 11877080.67 11877080.72 11877080.77 0.3678 0.3265

Uranus 27806-05-20 07:41 G 11877131.65 11877131.82 11877131.99 0.0133 0.0027

Uranus 27806-08-16 12:57 G 11877219.89 11877220.04 11877220.21 0.0133 0.0048

Mars 27806-09-19 16:05 G 11877254.04 11877254.17 11877254.29 0.1727 0.0247

Uranus 27806-11-12 18:14 G 11877308.12 11877308.26 11877308.42 0.0133 0.0068

Uranus 27807-02-08 23:45 G 11877396.37 11877396.49 11877396.62 0.0133 0.0088

Neptune 27807-03-10 23:45 G 11877426.47 11877426.49 11877426.55 0.0088 0.0085

Uranus 27807-05-08 05:02 G 11877484.61 11877484.71 11877484.81 0.0133 0.0108

Neptune 27807-06-07 01:26 G 11877514.50 11877514.56 11877514.64 0.0088 0.0077

Uranus 27807-08-04 10:19 G 11877572.89 11877572.93 11877572.97 0.0133 0.0128

Neptune 27807-09-03 02:53 G 11877602.55 11877602.62 11877602.72 0.0088 0.0070

Neptune 27807-11-30 04:48 G 11877690.60 11877690.70 11877690.79 0.0088 0.0063

Neptune 27808-02-26 06:14 G 11877778.65 11877778.76 11877778.87 0.0088 0.0056

Neptune 27808-05-24 07:41 G 11877866.71 11877866.82 11877866.94 0.0088 0.0048

Neptune 27808-08-20 09:07 G 11877954.76 11877954.88 11877955.01 0.0088 0.0042

Neptune 27808-11-16 10:48 G 11878042.82 11878042.95 11878043.08 0.0088 0.0034

Neptune 27809-02-12 12:14 G 11878130.88 11878131.01 11878131.15 0.0088 0.0027

Neptune 27809-05-11 13:55 G 11878218.94 11878219.08 11878219.22 0.0088 0.0020

Neptune 27809-08-07 15:36 G 11878307.01 11878307.15 11878307.29 0.0088 0.0013

Neptune 27809-11-03 17:02 G 11878395.07 11878395.21 11878395.35 0.0088 0.0005

Neptune 27810-01-30 18:43 G 11878483.13 11878483.28 11878483.42 0.0088 0.0003

Neptune 27810-04-28 20:09 G 11878571.20 11878571.34 11878571.48 0.0088 0.0010

Neptune 27810-07-25 21:36 G 11878659.27 11878659.40 11878659.55 0.0088 0.0017

Neptune 27810-10-21 23:17 G 11878747.34 11878747.47 11878747.61 0.0088 0.0024

Jupiter 27810-12-12 07:26 G 11878798.67 11878798.81 11878798.96 0.0512 0.0288

Neptune 27811-01-18 00:57 G 11878835.41 11878835.54 11878835.67 0.0088 0.0031

Jupiter 27811-03-12 11:31 G 11878888.93 11878888.98 11878889.04 0.0515 0.0481

Neptune 27811-04-16 02:24 G 11878923.48 11878923.60 11878923.73 0.0088 0.0039

Neptune 27811-07-13 04:05 G 11879011.55 11879011.67 11879011.79 0.0088 0.0046

Moon 27811-09-01 20:53 G 11879062.31 11879062.37 11879062.43 0.2662 0.2417

Earth 27811-09-01 22:19 G 11879062.36 11879062.43 11879062.50 0.2664 0.2330 *

Neptune 27811-10-09 05:45 G 11879099.63 11879099.74 11879099.85 0.0088 0.0054

Neptune 27812-01-05 07:12 G 11879187.71 11879187.80 11879187.91 0.0088 0.0061

Neptune 27812-04-02 08:53 G 11879275.79 11879275.87 11879275.96 0.0088 0.0068

Neptune 27812-06-29 10:19 G 11879363.87 11879363.93 11879364.01 0.0088 0.0076

Neptune 27812-09-25 12:00 G 11879451.97 11879452.00 11879452.06 0.0088 0.0084

Moon 27814-03-04 22:05 G 11879977.31 11879977.42 11879977.53 0.2664 0.0837

Earth 27814-03-04 22:48 G 11879977.34 11879977.45 11879977.56 0.2667 0.0750 *

Saturn 27814-08-28 20:09 G 11880154.30 11880154.34 11880154.38 0.0264 0.0251

Saturn 27814-11-25 07:12 G 11880242.69 11880242.80 11880242.91 0.0264 0.0158

Saturn 27815-02-21 18:14 G 11880331.13 11880331.26 11880331.40 0.0264 0.0064

Mars 27815-04-19 00:29 G 11880387.38 11880387.52 11880387.66 0.1806 0.0570

Saturn 27815-05-21 05:45 G 11880419.60 11880419.74 11880419.88 0.0264 0.0033

Saturn 27815-08-17 17:17 G 11880508.09 11880508.22 11880508.34 0.0264 0.0130

Saturn 27815-11-14 04:48 G 11880596.64 11880596.70 11880596.78 0.0264 0.0229

Mars 27816-02-10 00:14 G 11880684.39 11880684.51 11880684.62 0.1734 0.0695

Jupiter 27816-07-31 22:48 G 11880857.32 11880857.45 11880857.59 0.0514 0.0057

Jupiter 27822-09-30 05:17 G 11883108.67 11883108.72 11883108.76 0.0511 0.0488

Jupiter 27822-12-29 09:50 G 11883198.77 11883198.91 11883199.05 0.0514 0.0285

Moon 27824-09-04 00:43 G 11883813.39 11883813.53 11883813.68 0.2666 0.0089

Earth 27824-09-04 02:24 G 11883813.45 11883813.60 11883813.74 0.2664 0.0247 *

Mars 27825-07-02 08:38 G 11884114.81 11884114.86 11884114.90 0.1742 0.1620

Moon 27827-03-07 16:33 G 11884728.08 11884728.19 11884728.30 0.2671 0.0633

Earth 27827-03-07 17:17 G 11884728.11 11884728.22 11884728.33 0.2667 0.0712 *

Jupiter 27828-05-20 03:07 G 11885167.50 11885167.63 11885167.75 0.0515 0.0194

Jupiter 27828-08-17 10:48 G 11885256.87 11885256.95 11885257.03 0.0512 0.0398

Saturn 27829-09-27 05:45 G 11885662.64 11885662.74 11885662.84 0.0296 0.0238

Saturn 27829-12-25 03:36 G 11885751.49 11885751.65 11885751.82 0.0296 0.0069

Saturn 27830-03-24 00:57 G 11885840.38 11885840.54 11885840.70 0.0296 0.0097

Saturn 27830-06-20 21:36 G 11885929.33 11885929.40 11885929.49 0.0296 0.0258

Jupiter 27834-10-17 08:24 G 11887508.69 11887508.85 11887509.02 0.0513 0.0097

Mars 27836-10-28 07:55 G 11888250.74 11888250.83 11888250.91 0.1719 0.1294

Moon 27837-09-07 05:17 G 11888564.70 11888564.72 11888564.74 0.2670 0.2622

Venus 27839-02-22 13:26 G 11889098.02 11889098.06 11889098.09 0.3691 0.3498

Jupiter 27840-03-08 07:26 G 11889477.71 11889477.81 11889477.91 0.0516 0.0331

Moon 27840-03-09 11:31 G 11889478.92 11889478.98 11889479.05 0.2673 0.2125

Earth 27840-03-09 11:45 G 11889478.93 11889478.99 11889479.06 0.2667 0.2201 *

Jupiter 27840-06-05 14:53 G 11889567.00 11889567.12 11889567.24 0.0513 0.0259

Venus 27840-09-04 23:45 G 11889658.48 11889658.49 11889658.50 0.3680 0.3658

Saturn 27844-04-13 08:38 G 11890974.77 11890974.86 11890974.95 0.0264 0.0194

Saturn 27844-07-10 19:41 G 11891063.19 11891063.32 11891063.45 0.0264 0.0100

Venus 27844-09-07 12:14 G 11891121.89 11891122.01 11891122.14 0.3691 0.0889

Saturn 27844-10-07 06:57 G 11891151.65 11891151.79 11891151.93 0.0264 0.0004

Saturn 27845-01-03 18:14 G 11891240.13 11891240.26 11891240.40 0.0264 0.0093

Saturn 27845-04-02 05:45 G 11891328.65 11891328.74 11891328.85 0.0264 0.0192

Mars 27845-05-27 22:19 G 11891384.31 11891384.43 11891384.55 0.1815 0.0966

Mars 27846-03-20 16:05 G 11891681.04 11891681.17 11891681.29 0.1727 0.0366

Venus 27846-03-21 18:29 G 11891682.17 11891682.27 11891682.37 0.3680 0.1861

Jupiter 27846-08-05 07:12 G 11891818.63 11891818.80 11891818.97 0.0513 0.0092

Moon 27847-03-03 08:53 G 11892028.79 11892028.87 11892028.94 0.2661 0.1891

Earth 27847-03-03 09:21 G 11892028.81 11892028.89 11892028.97 0.2667 0.1886 *

Uranus 27847-03-05 01:26 G 11892030.51 11892030.56 11892030.63 0.0145 0.0130

Uranus 27847-06-01 05:45 G 11892118.65 11892118.74 11892118.84 0.0145 0.0108

Uranus 27847-08-28 10:05 G 11892206.81 11892206.92 11892207.04 0.0145 0.0086

Uranus 27847-11-24 14:38 G 11892294.98 11892295.11 11892295.24 0.0145 0.0064

Uranus 27848-02-20 18:57 G 11892383.16 11892383.29 11892383.43 0.0145 0.0041

Uranus 27848-05-18 23:31 G 11892471.34 11892471.48 11892471.62 0.0145 0.0018

Uranus 27848-08-15 04:05 G 11892559.52 11892559.67 11892559.81 0.0145 0.0006

Uranus 27848-11-11 08:24 G 11892647.71 11892647.85 11892648.00 0.0145 0.0028

Uranus 27849-02-07 12:57 G 11892735.91 11892736.04 11892736.18 0.0145 0.0051

Uranus 27849-05-06 17:31 G 11892824.11 11892824.23 11892824.36 0.0146 0.0074

Uranus 27849-08-02 22:19 G 11892912.32 11892912.43 11892912.53 0.0146 0.0098

Uranus 27849-10-30 02:53 G 11893000.54 11893000.62 11893000.70 0.0146 0.0122

Uranus 27850-01-26 07:41 G 11893088.82 11893088.82 11893088.82 0.0146 0.0145

Venus 27850-03-24 10:48 G 11893145.84 11893145.95 11893146.06 0.3692 0.1596

Venus 27851-10-05 13:12 G 11893705.94 11893706.05 11893706.17 0.3679 0.0090

Jupiter 27851-12-26 11:31 G 11893787.93 11893787.98 11893788.03 0.0517 0.0471

Jupiter 27852-03-24 18:57 G 11893877.15 11893877.29 11893877.42 0.0513 0.0117

Mars 27854-10-18 00:43 G 11894814.39 11894814.53 11894814.68 0.1807 0.0412

Mars 27855-08-11 00:29 G 11895111.40 11895111.52 11895111.64 0.1734 0.0560

Venus 27857-04-20 08:24 G 11895729.75 11895729.85 11895729.95 0.3678 0.1948

Moon 27857-09-02 03:07 G 11895864.54 11895864.63 11895864.72 0.2664 0.2103

Earth 27857-09-02 04:33 G 11895864.58 11895864.69 11895864.80 0.2665 0.1815 *

Jupiter 27858-05-24 06:14 G 11896128.62 11896128.76 11896128.91 0.0512 0.0274

Jupiter 27858-08-22 10:33 G 11896218.90 11896218.94 11896218.99 0.0515 0.0496

Saturn 27859-05-13 23:31 G 11896483.33 11896483.48 11896483.64 0.0296 0.0140

Saturn 27859-08-10 21:07 G 11896572.22 11896572.38 11896572.55 0.0296 0.0028

Saturn 27859-11-07 18:14 G 11896661.14 11896661.26 11896661.39 0.0296 0.0191

Moon 27860-03-05 02:53 G 11896779.51 11896779.62 11896779.73 0.2666 0.0585

Earth 27860-03-05 03:36 G 11896779.54 11896779.65 11896779.76 0.2667 0.0451 *

Jupiter 27864-01-11 21:50 G 11898187.28 11898187.41 11898187.55 0.0514 0.0045

Mars 27864-03-09 03:21 G 11898244.62 11898244.64 11898244.66 0.1798 0.1774

Mars 27864-12-31 08:38 G 11898541.80 11898541.86 11898541.92 0.1742 0.1497

Jupiter 27870-03-12 05:02 G 11900438.64 11900438.71 11900438.78 0.0511 0.0461

Jupiter 27870-06-10 09:36 G 11900528.77 11900528.90 11900529.04 0.0514 0.0313

Moon 27870-09-05 07:12 G 11900615.66 11900615.80 11900615.94 0.2666 0.0619

Earth 27870-09-05 08:38 G 11900615.71 11900615.86 11900616.00 0.2664 0.0743 *

Moon 27873-03-07 21:21 G 11901530.29 11901530.39 11901530.50 0.2671 0.0925

Earth 27873-03-07 22:05 G 11901530.32 11901530.42 11901530.53 0.2667 0.1016 *

Saturn 27873-08-31 11:17 G 11901706.90 11901706.97 11901707.05 0.0264 0.0218

Saturn 27873-11-27 22:19 G 11901795.31 11901795.43 11901795.56 0.0264 0.0125

Saturn 27874-02-24 09:36 G 11901883.76 11901883.90 11901884.04 0.0264 0.0029

Saturn 27874-05-23 21:07 G 11901972.24 11901972.38 11901972.51 0.0264 0.0068

Saturn 27874-08-20 08:38 G 11902060.75 11902060.86 11902060.97 0.0264 0.0166

Jupiter 27875-10-31 01:41 G 11902497.45 11902497.57 11902497.69 0.0515 0.0191

Jupiter 27876-01-28 09:21 G 11902586.81 11902586.89 11902586.97 0.0512 0.0401

Mars 27876-04-28 07:55 G 11902677.76 11902677.83 11902677.90 0.1719 0.1424

Jupiter 27882-03-29 07:41 G 11904838.66 11904838.82 11904838.99 0.0513 0.0116

Mars 27884-11-25 22:48 G 11905811.34 11905811.45 11905811.56 0.1815 0.1139

Mars 27885-09-18 16:05 G 11906108.05 11906108.17 11906108.30 0.1726 0.0498

Moon 27886-03-10 16:48 G 11906281.16 11906281.20 11906281.23 0.2674 0.2536

Earth 27886-03-10 16:48 G 11906281.16 11906281.20 11906281.24 0.2667 0.2509 *

Jupiter 27887-08-19 05:45 G 11906807.64 11906807.74 11906807.85 0.0516 0.0330

Jupiter 27887-11-16 13:26 G 11906896.94 11906897.06 11906897.17 0.0513 0.0260

Saturn 27888-09-29 22:48 G 11907215.32 11907215.45 11907215.59 0.0296 0.0189

Uranus 27888-09-30 00:14 G 11907215.44 11907215.51 11907215.62 0.0133 0.0114 *

Uranus 27888-12-27 06:14 G 11907303.64 11907303.76 11907303.89 0.0133 0.0092

Saturn 27888-12-27 20:38 G 11907304.19 11907304.36 11907304.53 0.0296 0.0021

Uranus 27889-03-25 11:45 G 11907391.85 11907391.99 11907392.15 0.0133 0.0071

Saturn 27889-03-26 17:45 G 11907393.10 11907393.24 11907393.39 0.0296 0.0145

Uranus 27889-06-21 17:31 G 11907480.07 11907480.23 11907480.39 0.0133 0.0049

Uranus 27889-09-17 23:02 G 11907568.29 11907568.46 11907568.63 0.0133 0.0028

Uranus 27889-12-15 04:33 G 11907656.52 11907656.69 11907656.87 0.0133 0.0007

Uranus 27890-03-13 10:05 G 11907744.75 11907744.92 11907745.09 0.0133 0.0014

Uranus 27890-06-09 15:21 G 11907832.98 11907833.14 11907833.31 0.0133 0.0035

Uranus 27890-09-05 20:38 G 11907921.22 11907921.36 11907921.53 0.0133 0.0056

Uranus 27890-12-03 02:09 G 11908009.46 11908009.59 11908009.73 0.0133 0.0076

Neptune 27891-02-24 19:55 G 11908093.28 11908093.33 11908093.40 0.0089 0.0083

Uranus 27891-03-01 07:26 G 11908097.70 11908097.81 11908097.93 0.0133 0.0096

Neptune 27891-05-23 22:48 G 11908181.36 11908181.45 11908181.56 0.0089 0.0074

Uranus 27891-05-28 12:43 G 11908185.95 11908186.03 11908186.11 0.0133 0.0116

Neptune 27891-08-20 01:55 G 11908269.47 11908269.58 11908269.71 0.0089 0.0064

Neptune 27891-11-16 04:48 G 11908357.57 11908357.70 11908357.86 0.0089 0.0055

Neptune 27892-02-12 07:55 G 11908445.69 11908445.83 11908445.99 0.0089 0.0045

Neptune 27892-05-10 11:02 G 11908533.80 11908533.96 11908534.13 0.0089 0.0035

Neptune 27892-08-06 13:55 G 11908621.92 11908622.08 11908622.26 0.0089 0.0026

Neptune 27892-11-02 17:02 G 11908710.04 11908710.21 11908710.39 0.0089 0.0016

Neptune 27893-01-29 19:55 G 11908798.16 11908798.33 11908798.51 0.0089 0.0007

Moon 27893-03-03 13:41 G 11908830.98 11908831.07 11908831.16 0.2661 0.1712

Earth 27893-03-03 14:09 G 11908831.00 11908831.09 11908831.18 0.2667 0.1581 *

Neptune 27893-04-27 23:02 G 11908886.28 11908886.46 11908886.63 0.0089 0.0003

Neptune 27893-07-25 01:41 G 11908974.40 11908974.57 11908974.75 0.0089 0.0013

Neptune 27893-10-21 04:48 G 11909062.53 11909062.70 11909062.87 0.0089 0.0021

Jupiter 27894-01-15 06:14 G 11909148.59 11909148.76 11909148.93 0.0512 0.0077

Neptune 27894-01-17 07:41 G 11909150.66 11909150.82 11909150.99 0.0089 0.0031

Neptune 27894-04-15 10:19 G 11909238.78 11909238.93 11909239.10 0.0089 0.0040

Mars 27894-04-18 01:26 G 11909241.41 11909241.56 11909241.70 0.1807 0.0229

Neptune 27894-07-12 13:12 G 11909326.91 11909327.05 11909327.21 0.0089 0.0049

Neptune 27894-10-08 16:05 G 11909415.05 11909415.17 11909415.31 0.0089 0.0059

Neptune 27895-01-04 19:12 G 11909503.19 11909503.30 11909503.41 0.0089 0.0068

Mars 27895-02-09 00:29 G 11909538.39 11909538.52 11909538.64 0.1734 0.0445

Neptune 27895-04-02 21:36 G 11909591.33 11909591.40 11909591.50 0.0089 0.0077

Neptune 27895-06-30 00:14 G 11909679.49 11909679.51 11909679.58 0.0089 0.0087

Venus 27895-09-29 12:57 G 11909770.95 11909771.04 11909771.13 0.3691 0.2617

Venus 27897-04-11 22:05 G 11910331.36 11910331.42 11910331.48 0.3680 0.3055

Jupiter 27899-06-07 10:05 G 11911117.87 11911117.92 11911117.98 0.0517 0.0467

Jupiter 27899-09-04 17:31 G 11911207.10 11911207.23 11911207.36 0.0514 0.0121

Venus 27901-04-15 11:45 G 11911794.86 11911794.99 11911795.11 0.3691 0.0104

Venus 27902-10-27 16:48 G 11912355.09 11912355.20 11912355.31 0.3679 0.1232

Saturn 27903-01-19 12:57 G 11912439.01 11912439.04 11912439.09 0.0264 0.0251

Saturn 27903-04-18 00:00 G 11912527.39 11912527.50 11912527.61 0.0264 0.0158

Saturn 27903-07-15 11:02 G 11912615.83 11912615.96 11912616.10 0.0264 0.0065

Moon 27903-09-04 09:07 G 11912666.76 11912666.88 11912667.01 0.2664 0.1406

Earth 27903-09-04 10:48 G 11912666.82 11912666.95 11912667.08 0.2664 0.1310 *

Mars 27903-09-09 03:36 G 11912671.59 11912671.65 11912671.71 0.1798 0.1613

Saturn 27903-10-11 22:33 G 11912704.30 11912704.44 11912704.58 0.0264 0.0033

Saturn 27904-01-08 09:50 G 11912792.79 11912792.91 11912793.04 0.0264 0.0131

Saturn 27904-04-05 21:36 G 11912881.33 11912881.40 11912881.47 0.0264 0.0229

Mars 27904-07-02 08:53 G 11912968.79 11912968.87 11912968.94 0.1742 0.1363

Jupiter 27905-11-04 04:48 G 11913458.55 11913458.70 11913458.84 0.0512 0.0268

Jupiter 27906-02-02 08:53 G 11913548.84 11913548.87 11913548.91 0.0515 0.0502

Moon 27906-03-07 07:55 G 11913581.71 11913581.83 11913581.94 0.2668 0.0219

Earth 27906-03-07 08:38 G 11913581.74 11913581.86 11913581.97 0.2667 0.0156 *

Venus 27906-10-30 10:05 G 11913818.82 11913818.92 11913819.01 0.3692 0.2407

Venus 27908-05-12 11:45 G 11914378.87 11914378.99 11914379.10 0.3679 0.0670

Jupiter 27911-06-24 21:36 G 11915517.26 11915517.40 11915517.53 0.0514 0.0022

Venus 27913-11-26 06:57 G 11916402.71 11916402.79 11916402.87 0.3678 0.2628

Mars 27915-10-29 08:09 G 11917104.79 11917104.84 11917104.89 0.1719 0.1563

Moon 27916-09-06 13:26 G 11917417.93 11917418.06 11917418.20 0.2668 0.1018

Earth 27916-09-06 14:38 G 11917417.98 11917418.11 11917418.24 0.2664 0.1235 *

Jupiter 27917-08-23 03:36 G 11917768.58 11917768.65 11917768.74 0.0511 0.0450

Jupiter 27917-11-21 08:24 G 11917858.72 11917858.85 11917858.99 0.0514 0.0325

Saturn 27918-02-17 18:57 G 11917947.21 11917947.29 11917947.37 0.0296 0.0260

Saturn 27918-05-17 16:48 G 11918036.04 11918036.20 11918036.37 0.0296 0.0090

Saturn 27918-08-14 14:24 G 11918124.94 11918125.10 11918125.26 0.0296 0.0077

Saturn 27918-11-11 11:17 G 11918213.88 11918213.97 11918214.07 0.0296 0.0239

Moon 27919-03-10 02:24 G 11918332.50 11918332.60 11918332.70 0.2671 0.1227

Earth 27919-03-10 03:07 G 11918332.53 11918332.63 11918332.73 0.2667 0.1320 *

Pluto 27923-04-05 12:14 G 11919819.97 11919820.01 11919820.07 0.0070 0.0064

Jupiter 27923-04-13 00:43 G 11919827.40 11919827.53 11919827.65 0.0515 0.0180

Pluto 27923-07-02 12:57 G 11919907.97 11919908.04 11919908.13 0.0070 0.0054

Jupiter 27923-07-11 08:24 G 11919916.77 11919916.85 11919916.93 0.0512 0.0411

Pluto 27923-09-28 13:26 G 11919995.97 11919996.06 11919996.17 0.0070 0.0045

Pluto 27923-12-25 14:09 G 11920083.98 11920084.09 11920084.21 0.0070 0.0035

Pluto 27924-03-22 14:53 G 11920172.00 11920172.12 11920172.24 0.0070 0.0025

Mars 27924-05-27 23:17 G 11920238.37 11920238.47 11920238.57 0.1816 0.1312

Pluto 27924-06-18 15:21 G 11920260.01 11920260.14 11920260.27 0.0070 0.0016

Pluto 27924-09-14 15:50 G 11920348.03 11920348.16 11920348.29 0.0070 0.0006

Pluto 27924-12-11 16:33 G 11920436.06 11920436.19 11920436.32 0.0070 0.0004

Pluto 27925-03-09 17:02 G 11920524.08 11920524.21 11920524.34 0.0070 0.0014

Mars 27925-03-20 16:19 G 11920535.06 11920535.18 11920535.30 0.1726 0.0625

Pluto 27925-06-05 17:31 G 11920612.11 11920612.23 11920612.36 0.0071 0.0024

Pluto 27925-09-01 18:14 G 11920700.15 11920700.26 11920700.37 0.0071 0.0034

Pluto 27925-11-28 18:57 G 11920788.18 11920788.29 11920788.39 0.0071 0.0044

Pluto 27926-02-24 19:12 G 11920876.23 11920876.30 11920876.39 0.0071 0.0055

Pluto 27926-05-23 19:41 G 11920964.28 11920964.32 11920964.39 0.0071 0.0065

Jupiter 27929-09-09 07:26 G 11922168.65 11922168.81 11922168.98 0.0514 0.0141

Uranus 27931-03-26 08:24 G 11922731.79 11922731.85 11922731.92 0.0145 0.0126

Uranus 27931-06-22 12:43 G 11922819.94 11922820.03 11922820.13 0.0145 0.0104

Uranus 27931-09-18 17:17 G 11922908.10 11922908.22 11922908.33 0.0145 0.0082

Uranus 27931-12-15 21:36 G 11922996.27 11922996.40 11922996.53 0.0145 0.0059

Uranus 27932-03-13 01:55 G 11923084.44 11923084.58 11923084.72 0.0145 0.0037

Uranus 27932-06-09 06:29 G 11923172.62 11923172.77 11923172.91 0.0145 0.0014

Saturn 27932-09-04 02:53 G 11923259.52 11923259.62 11923259.72 0.0265 0.0183

Uranus 27932-09-05 10:48 G 11923260.81 11923260.95 11923261.10 0.0145 0.0010

Saturn 27932-12-01 13:55 G 11923347.95 11923348.08 11923348.21 0.0264 0.0088

Uranus 27932-12-02 15:21 G 11923349.00 11923349.14 11923349.28 0.0145 0.0032

Saturn 27933-02-28 01:12 G 11923436.41 11923436.55 11923436.69 0.0264 0.0008

Uranus 27933-02-28 19:55 G 11923437.20 11923437.33 11923437.47 0.0146 0.0055

Saturn 27933-05-27 12:43 G 11923524.90 11923525.03 11923525.16 0.0264 0.0105

Uranus 27933-05-28 00:29 G 11923525.40 11923525.52 11923525.65 0.0146 0.0079

Saturn 27933-08-24 00:14 G 11923613.42 11923613.51 11923613.60 0.0264 0.0204

Uranus 27933-08-24 05:02 G 11923613.62 11923613.71 11923613.82 0.0146 0.0103

Mars 27933-10-18 01:55 G 11923668.43 11923668.58 11923668.72 0.1807 0.0064

Uranus 27933-11-20 09:36 G 11923701.84 11923701.90 11923701.98 0.0146 0.0127

Mars 27934-08-11 00:29 G 11923965.40 11923965.52 11923965.65 0.1734 0.0308

Jupiter 27935-01-30 04:33 G 11924137.58 11924137.69 11924137.79 0.0516 0.0327

Jupiter 27935-04-29 11:45 G 11924226.88 11924226.99 11924227.11 0.0513 0.0263

Moon 27939-03-05 18:29 G 11925633.17 11925633.27 11925633.37 0.2663 0.1300

Earth 27939-03-05 19:12 G 11925633.20 11925633.30 11925633.39 0.2667 0.1291 *

Jupiter 27941-06-28 05:17 G 11926478.55 11926478.72 11926478.89 0.0512 0.0060

Mars 27943-03-10 04:05 G 11927098.58 11927098.67 11927098.76 0.1798 0.1437

Mars 27944-01-01 08:53 G 11927395.78 11927395.87 11927395.95 0.1741 0.1244

Jupiter 27946-11-18 08:38 G 11928447.80 11928447.86 11928447.91 0.0517 0.0467

Jupiter 27947-02-15 15:50 G 11928537.03 11928537.16 11928537.29 0.0514 0.0121

Saturn 27947-10-04 16:33 G 11928768.04 11928768.19 11928768.34 0.0296 0.0136

Saturn 27948-01-01 14:09 G 11928856.92 11928857.09 11928857.26 0.0296 0.0032

Saturn 27948-03-30 11:17 G 11928945.85 11928945.97 11928946.10 0.0296 0.0196

Moon 27949-09-04 15:21 G 11929469.01 11929469.14 11929469.28 0.2664 0.1099

Earth 27949-09-04 17:02 G 11929469.07 11929469.21 11929469.35 0.2665 0.0803 *

Moon 27952-03-07 12:43 G 11930383.92 11930384.03 11930384.14 0.2669 0.0016

Earth 27952-03-07 13:26 G 11930383.95 11930384.06 11930384.18 0.2667 0.0164 *

Venus 27952-05-06 12:14 G 11930443.90 11930444.01 11930444.13 0.3691 0.1748

Jupiter 27953-04-16 03:36 G 11930788.50 11930788.65 11930788.80 0.0512 0.0254

Jupiter 27953-07-15 07:41 G 11930878.82 11930878.82 11930878.83 0.0515 0.0514

Venus 27953-11-17 20:24 G 11931004.26 11931004.35 11931004.43 0.3680 0.2438

Mars 27955-04-29 08:09 G 11931531.82 11931531.84 11931531.86 0.1719 0.1684

Venus 27957-11-20 11:02 G 11932467.84 11932467.96 11932468.08 0.3692 0.0795

Jupiter 27958-12-04 19:55 G 11932847.20 11932847.33 11932847.47 0.0515 0.0025

Venus 27959-06-03 15:07 G 11933028.01 11933028.13 11933028.24 0.3679 0.0594

Saturn 27962-01-22 04:48 G 11933991.62 11933991.70 11933991.78 0.0264 0.0213

Saturn 27962-04-20 15:50 G 11934080.04 11934080.16 11934080.29 0.0264 0.0120

Saturn 27962-07-18 03:07 G 11934168.49 11934168.63 11934168.77 0.0264 0.0024

Moon 27962-09-07 19:55 G 11934220.22 11934220.33 11934220.44 0.2669 0.1705

Earth 27962-09-07 20:53 G 11934220.26 11934220.37 11934220.48 0.2664 0.1726 *

Saturn 27962-10-14 14:24 G 11934256.97 11934257.10 11934257.24 0.0264 0.0073

Saturn 27963-01-11 01:55 G 11934345.48 11934345.58 11934345.69 0.0264 0.0171

Venus 27963-06-06 09:07 G 11934491.82 11934491.88 11934491.94 0.3693 0.3207

Mars 27963-11-26 23:31 G 11934665.40 11934665.48 11934665.57 0.1816 0.1482

Mars 27964-09-18 16:19 G 11934962.07 11934962.18 11934962.30 0.1726 0.0759

Venus 27964-12-17 10:05 G 11935051.81 11935051.92 11935052.03 0.3679 0.1318

Jupiter 27965-02-02 01:41 G 11935098.50 11935098.57 11935098.66 0.0511 0.0448

Moon 27965-03-10 07:41 G 11935134.73 11935134.82 11935134.91 0.2672 0.1613

Earth 27965-03-10 07:55 G 11935134.74 11935134.83 11935134.92 0.2667 0.1634 *

Jupiter 27965-05-03 06:29 G 11935188.64 11935188.77 11935188.90 0.0514 0.0327

Venus 27970-07-03 05:17 G 11937075.67 11937075.72 11937075.77 0.3678 0.3314

Jupiter 27970-09-23 00:00 G 11937157.38 11937157.50 11937157.63 0.0515 0.0161

Jupiter 27970-12-21 07:41 G 11937246.75 11937246.82 11937246.90 0.0512 0.0432

Neptune 27971-12-06 23:02 G 11937597.42 11937597.46 11937597.52 0.0088 0.0083

Moon 27972-03-03 05:17 G 11937684.68 11937684.72 11937684.77 0.2660 0.2405

Earth 27972-03-03 05:45 G 11937684.69 11937684.74 11937684.78 0.2666 0.2411 *

Neptune 27972-03-04 00:29 G 11937685.46 11937685.52 11937685.60 0.0088 0.0076

Neptune 27972-05-31 02:09 G 11937773.51 11937773.59 11937773.68 0.0088 0.0068

Uranus 27972-07-25 02:38 G 11937828.57 11937828.61 11937828.67 0.0133 0.0127

Neptune 27972-08-27 03:36 G 11937861.56 11937861.65 11937861.76 0.0088 0.0061

Uranus 27972-10-21 08:24 G 11937916.75 11937916.85 11937916.97 0.0133 0.0105

Neptune 27972-11-23 05:02 G 11937949.61 11937949.71 11937949.83 0.0088 0.0055

Uranus 27973-01-17 14:09 G 11938004.96 11938005.09 11938005.23 0.0133 0.0083

Neptune 27973-02-19 06:43 G 11938037.67 11938037.78 11938037.91 0.0088 0.0047

Uranus 27973-04-15 19:41 G 11938093.18 11938093.32 11938093.49 0.0133 0.0062

Mars 27973-04-18 02:09 G 11938095.44 11938095.59 11938095.73 0.1807 0.0117

Neptune 27973-05-18 08:24 G 11938125.73 11938125.85 11938125.98 0.0088 0.0040

Uranus 27973-07-13 01:26 G 11938181.40 11938181.56 11938181.73 0.0133 0.0041

Neptune 27973-08-14 09:50 G 11938213.78 11938213.91 11938214.05 0.0088 0.0033

Uranus 27973-10-09 07:12 G 11938269.63 11938269.80 11938269.97 0.0133 0.0019

Neptune 27973-11-10 11:31 G 11938301.84 11938301.98 11938302.11 0.0088 0.0025

Uranus 27974-01-05 12:43 G 11938357.85 11938358.03 11938358.20 0.0133 0.0003

Neptune 27974-02-06 12:57 G 11938389.91 11938390.04 11938390.18 0.0088 0.0018

Mars 27974-02-09 00:43 G 11938392.40 11938392.53 11938392.65 0.1734 0.0176

Uranus 27974-04-03 18:00 G 11938446.08 11938446.25 11938446.42 0.0133 0.0023

Neptune 27974-05-05 14:38 G 11938477.97 11938478.11 11938478.25 0.0088 0.0011

Uranus 27974-06-30 23:17 G 11938534.32 11938534.47 11938534.64 0.0133 0.0044

Neptune 27974-08-01 16:05 G 11938566.03 11938566.17 11938566.31 0.0088 0.0004

Uranus 27974-09-27 04:48 G 11938622.55 11938622.70 11938622.85 0.0133 0.0064

Neptune 27974-10-28 17:45 G 11938654.10 11938654.24 11938654.38 0.0088 0.0004

Uranus 27974-12-24 10:05 G 11938710.80 11938710.92 11938711.06 0.0133 0.0085

Neptune 27975-01-24 19:12 G 11938742.16 11938742.30 11938742.44 0.0088 0.0011

Uranus 27975-03-22 15:21 G 11938799.04 11938799.14 11938799.25 0.0133 0.0105

Neptune 27975-04-22 20:53 G 11938830.23 11938830.37 11938830.51 0.0088 0.0018

Uranus 27975-06-18 20:38 G 11938887.31 11938887.36 11938887.42 0.0133 0.0125

Neptune 27975-07-19 22:19 G 11938918.30 11938918.43 11938918.57 0.0088 0.0026

Neptune 27975-10-15 23:45 G 11939006.37 11939006.49 11939006.63 0.0088 0.0034

Neptune 27976-01-12 01:26 G 11939094.44 11939094.56 11939094.69 0.0088 0.0041

Neptune 27976-04-09 02:53 G 11939182.51 11939182.62 11939182.75 0.0088 0.0048

Neptune 27976-07-06 04:33 G 11939270.59 11939270.69 11939270.81 0.0088 0.0055

Neptune 27976-10-02 06:29 G 11939358.67 11939358.77 11939358.87 0.0088 0.0063

Neptune 27976-12-29 07:41 G 11939446.75 11939446.82 11939446.92 0.0088 0.0071

Jupiter 27977-02-19 06:00 G 11939498.58 11939498.75 11939498.91 0.0514 0.0148

Saturn 27977-02-20 12:57 G 11939499.92 11939500.04 11939500.17 0.0296 0.0204

Neptune 27977-03-27 09:36 G 11939534.84 11939534.90 11939534.97 0.0088 0.0077

Saturn 27977-05-20 10:48 G 11939588.78 11939588.95 11939589.12 0.0296 0.0035

Neptune 27977-06-23 11:02 G 11939622.94 11939622.96 11939623.01 0.0088 0.0085

Saturn 27977-08-17 08:09 G 11939677.69 11939677.84 11939677.99 0.0296 0.0131

Saturn 27977-11-14 04:48 G 11939766.68 11939766.70 11939766.73 0.0296 0.0292

Jupiter 27982-07-12 03:21 G 11941467.53 11941467.64 11941467.74 0.0516 0.0318

Mars 27982-09-08 04:33 G 11941525.59 11941525.69 11941525.80 0.1799 0.1255

Jupiter 27982-10-09 10:48 G 11941556.83 11941556.95 11941557.06 0.0513 0.0271

Mars 27983-07-02 08:53 G 11941822.77 11941822.87 11941822.97 0.1741 0.1116

Moon 27985-03-05 23:17 G 11942435.37 11942435.47 11942435.57 0.2664 0.1134

Earth 27985-03-06 00:00 G 11942435.39 11942435.50 11942435.60 0.2667 0.0988 *

Jupiter 27988-12-08 04:48 G 11943808.53 11943808.70 11943808.87 0.0513 0.0039

Saturn	**27991-06-11 07:26**	**G**	**11944723.76**	**11944723.81**	**11944723.88**	**0.0265**	**0.0239**	
Saturn	**27991-09-07 18:43**	**G**	**11944812.16**	**11944812.28**	**11944812.39**	**0.0265**	**0.0145**	
Saturn	**27991-12-05 05:45**	**G**	**11944900.60**	**11944900.74**	**11944900.88**	**0.0265**	**0.0050**	
Saturn	**27992-03-02 17:02**	**G**	**11944989.07**	**11944989.21**	**11944989.35**	**0.0264**	**0.0048**	
Saturn	**27992-05-30 04:33**	**G**	**11945077.58**	**11945077.69**	**11945077.81**	**0.0264**	**0.0146**	
Saturn	**27992-08-26 16:19**	**G**	**11945166.13**	**11945166.18**	**11945166.23**	**0.0264**	**0.0245**	
Jupiter	**27994-04-30 06:57**	**G**	**11945777.74**	**11945777.79**	**11945777.85**	**0.0517**	**0.0465**	
Jupiter	**27994-07-28 14:24**	**G**	**11945866.97**	**11945867.10**	**11945867.23**	**0.0513**	**0.0122**	
Moon	**27995-09-05 21:50**	**G**	**11946271.26**	**11946271.41**	**11946271.55**	**0.2665**	**0.0404**	
Earth	**27995-09-05 23:17**	**G**	**11946271.32**	**11946271.47**	**11946271.62**	**0.2665**	**0.0300**	*****
Moon	**27998-03-08 17:31**	**G**	**11947186.12**	**11947186.23**	**11947186.35**	**0.2669**	**0.0428**	
Earth	**27998-03-08 18:29**	**G**	**11947186.15**	**11947186.27**	**11947186.38**	**0.2667**	**0.0468**	*****
Jupiter	**28000-09-26 02:24**	**G**	**11948118.45**	**11948118.60**	**11948118.76**	**0.0512**	**0.0240**	

29TH MILLENNIUM CE

This is a list of transits of Mercury in the 29th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	**28003-05-28 00:00**	**G**	**11949092.44**	**11949092.50**	**11949092.56**	**0.1816**	**0.1646**	
Venus	**28003-05-28 12:43**	**G**	**11949092.99**	**11949093.03**	**11949093.06**	**0.3691**	**0.3530**	
Mars	**28004-03-19 16:33**	**G**	**11949389.08**	**11949389.19**	**11949389.30**	**0.1726**	**0.0887**	
Venus	**28004-12-09 00:00**	**G**	**11949653.49**	**11949653.50**	**11949653.52**	**0.3680**	**0.3623**	
Jupiter	**28006-05-16 18:14**	**G**	**11950177.13**	**11950177.26**	**11950177.40**	**0.0515**	**0.0023**	
Saturn	**28006-07-10 13:12**	**G**	**11950231.96**	**11950232.05**	**11950232.15**	**0.0296**	**0.0246**	

Saturn 28006-10-07 11:17 G 11950320.81 11950320.97 11950321.14 0.0296 0.0075

Saturn 28007-01-04 08:53 G 11950409.71 11950409.87 11950410.03 0.0296 0.0092

Saturn 28007-04-03 05:31 G 11950498.65 11950498.73 11950498.82 0.0296 0.0254

Moon 28008-09-08 02:09 G 11951022.50 11951022.59 11951022.69 0.2670 0.2012

Earth 28008-09-08 03:07 G 11951022.55 11951022.63 11951022.71 0.2664 0.2212 *

Venus 28008-12-11 11:45 G 11951116.86 11951116.99 11951117.11 0.3691 0.0887

Pluto 28009-05-13 23:02 G 11951270.37 11951270.46 11951270.58 0.0074 0.0062

Pluto 28009-08-10 01:55 G 11951358.43 11951358.58 11951358.74 0.0074 0.0044

Pluto 28009-11-06 04:19 G 11951446.51 11951446.68 11951446.88 0.0074 0.0027

Pluto 28010-02-02 06:57 G 11951534.60 11951534.79 11951535.00 0.0074 0.0010

Pluto 28010-05-01 09:50 G 11951622.71 11951622.91 11951623.11 0.0074 0.0008

Venus 28010-06-24 18:43 G 11951677.18 11951677.28 11951677.37 0.3680 0.1822

Pluto 28010-07-28 12:00 G 11951710.83 11951711.00 11951711.20 0.0073 0.0026

Pluto 28010-10-24 14:24 G 11951798.96 11951799.10 11951799.28 0.0073 0.0043

Pluto 28011-01-20 16:48 G 11951887.11 11951887.20 11951887.34 0.0073 0.0060

Moon 28011-03-11 12:43 G 11951936.95 11951937.03 11951937.11 0.2673 0.1852

Earth 28011-03-11 12:57 G 11951936.96 11951937.04 11951937.12 0.2667 0.1940 *

Jupiter 28012-07-15 00:29 G 11952428.43 11952428.52 11952428.61 0.0511 0.0436

Jupiter 28012-10-13 05:02 G 11952518.59 11952518.71 11952518.84 0.0514 0.0337

Mars 28012-10-17 02:38 G 11952522.47 11952522.61 11952522.75 0.1807 0.0292

Mars 28013-08-10 00:43 G 11952819.40 11952819.53 11952819.66 0.1733 0.0054

Venus 28014-06-27 10:19 G 11953140.81 11953140.93 11953141.04 0.3692 0.1614

Uranus 28015-01-17 11:17 G 11953344.96 11953344.97 11953345.01 0.0145 0.0143

Uranus 28015-04-15 15:36 G 11953433.08 11953433.15 11953433.24 0.0145 0.0121

Uranus 28015-07-12 19:55 G 11953521.24 11953521.33 11953521.44 0.0145 0.0099

Uranus 28015-10-09 00:14 G 11953609.40 11953609.51 11953609.64 0.0145 0.0077

Uranus 28016-01-05 04:48 G 11953697.57 11953697.70 11953697.84 0.0145 0.0054

Venus 28016-01-08 13:26 G 11953700.94 11953701.06 11953701.17 0.3679 0.0113

Uranus 28016-04-02 09:21 G 11953785.75 11953785.89 11953786.03 0.0145 0.0031

Uranus 28016-06-29 13:41 G 11953873.93 11953874.07 11953874.22 0.0145 0.0008

Uranus 28016-09-25 18:14 G 11953962.12 11953962.26 11953962.40 0.0145 0.0015

Uranus 28016-12-22 22:48 G 11954050.31 11954050.45 11954050.59 0.0145 0.0038

Uranus 28017-03-21 03:21 G 11954138.51 11954138.64 11954138.77 0.0146 0.0062

Uranus 28017-06-17 07:41 G 11954226.71 11954226.82 11954226.95 0.0146 0.0086

Uranus 28017-09-13 12:29 G 11954314.93 11954315.02 11954315.12 0.0146 0.0109

Uranus 28017-12-10 17:02 G 11954403.16 11954403.21 11954403.28 0.0146 0.0133

Moon 28018-03-04 10:19 G 11954486.86 11954486.93 11954486.99 0.2660 0.2173

Earth 28018-03-04 10:33 G 11954486.87 11954486.94 11954487.01 0.2666 0.2116 *

Jupiter 28018-03-04 22:33 G 11954487.31 11954487.44 11954487.56 0.0515 0.0162

Jupiter 28018-06-02 06:00 G 11954576.69 11954576.75 11954576.83 0.0512 0.0431

Saturn 28021-01-24 20:53 G 11955544.27 11955544.37 11955544.48 0.0264 0.0173

Saturn 28021-04-23 08:09 G 11955632.70 11955632.84 11955632.97 0.0264 0.0078

Saturn 28021-07-20 19:26 G 11955721.17 11955721.31 11955721.45 0.0264 0.0019

Venus 28021-07-24 08:24 G 11955724.76 11955724.85 11955724.95 0.3679 0.1990

Saturn 28021-10-17 06:43 G 11955809.66 11955809.78 11955809.91 0.0264 0.0116

Saturn 28022-01-13 18:29 G 11955898.19 11955898.27 11955898.35 0.0264 0.0214

Mars 28022-03-09 04:48 G 11955952.59 11955952.70 11955952.82 0.1799 0.1101

Mars 28022-12-31 09:07 G 11956249.77 11956249.88 11956249.98 0.1741 0.0987

Jupiter 28024-08-01 03:36 G 11956828.49 11956828.65 11956828.82 0.0513 0.0147

Moon 28028-09-02 23:45 G 11958322.45 11958322.49 11958322.53 0.2663 0.2571

Earth 28028-09-03 01:12 G 11958322.49 11958322.55 11958322.62 0.2665 0.2376 *

Jupiter 28029-12-22 02:38 G 11958797.50 11958797.61 11958797.71 0.0516 0.0303

Jupiter 28030-03-21 10:05 G 11958886.81 11958886.92 11958887.03 0.0513 0.0287

Moon 28031-03-07 04:05 G 11959237.56 11959237.67 11959237.78 0.2666 0.0758

Earth 28031-03-07 04:48 G 11959237.59 11959237.70 11959237.81 0.2667 0.0695 *

Saturn 28036-02-24 08:09 G 11961052.69 11961052.84 11961052.99 0.0296 0.0140

Jupiter 28036-05-20 02:53 G 11961138.45 11961138.62 11961138.79 0.0513 0.0036

Saturn 28036-05-23 05:45 G 11961141.57 11961141.74 11961141.91 0.0296 0.0028

Saturn 28036-08-20 02:53 G 11961230.50 11961230.62 11961230.75 0.0296 0.0192

Moon 28041-09-06 04:19 G 11963073.53 11963073.68 11963073.82 0.2667 0.0082

Earth 28041-09-06 05:31 G 11963073.58 11963073.73 11963073.88 0.2665 0.0216 *

Jupiter 28041-10-10 05:45 G 11963107.69 11963107.74 11963107.80 0.0516 0.0458

Jupiter 28042-01-07 12:57 G 11963196.91 11963197.04 11963197.17 0.0513 0.0129

Mars 28043-09-18 16:33 G 11963816.09 11963816.19 11963816.30 0.1726 0.1017

Moon 28044-03-08 22:33 G 11963988.33 11963988.44 11963988.55 0.2669 0.0606

Earth 28044-03-08 23:17 G 11963988.36 11963988.47 11963988.58 0.2667 0.0763 *

Jupiter 28048-03-08 01:26 G 11965448.41 11965448.56 11965448.72 0.0512 0.0225

Saturn 28050-06-13 23:45 G 11966276.40 11966276.49 11966276.58 0.0265 0.0198

Saturn 28050-09-10 10:48 G 11966364.82 11966364.95 11966365.08 0.0265 0.0104

Saturn 28050-12-07 22:05 G 11966453.28 11966453.42 11966453.56 0.0265 0.0008

Saturn 28051-03-06 09:21 G 11966541.76 11966541.89 11966542.03 0.0265 0.0091

Saturn 28051-06-02 21:07 G 11966630.28 11966630.38 11966630.48 0.0265 0.0189

Mars 28052-04-17 02:53 G 11966949.48 11966949.62 11966949.77 0.1807 0.0459

Mars 28053-02-08 00:43 G 11967246.41 11967246.53 11967246.66 0.1733 0.0084

Jupiter 28053-10-26 16:48 G 11967507.06 11967507.20 11967507.33 0.0514 0.0028

Neptune 28055-11-22 17:02 G 11968264.17 11968264.21 11968264.29 0.0089 0.0084

Neptune 28056-02-18 20:24 G 11968352.26 11968352.35 11968352.46 0.0089 0.0073

Neptune 28056-05-16 23:17 G 11968440.36 11968440.47 11968440.61 0.0089 0.0064

Neptune 28056-08-13 02:24 G 11968528.47 11968528.60 11968528.75 0.0089 0.0054

Uranus 28056-08-14 10:33 G 11968529.87 11968529.94 11968530.03 0.0133 0.0119

Neptune 28056-11-09 05:31 G 11968616.58 11968616.73 11968616.89 0.0089 0.0044

Uranus 28056-11-10 16:33 G 11968618.07 11968618.19 11968618.31 0.0133 0.0096

Neptune 28057-02-05 08:24 G 11968704.69 11968704.85 11968705.02 0.0089 0.0035

Uranus 28057-02-06 22:05 G 11968706.28 11968706.42 11968706.57 0.0133 0.0075

Moon 28057-03-11 17:45 G 11968739.18 11968739.24 11968739.29 0.2674 0.2292

Earth 28057-03-11 18:00 G 11968739.19 11968739.25 11968739.31 0.2667 0.2248 *

Neptune 28057-05-04 11:31 G 11968792.81 11968792.98 11968793.15 0.0089 0.0025

Uranus 28057-05-06 03:50 G 11968794.50 11968794.66 11968794.82 0.0133 0.0053

Neptune 28057-07-31 14:24 G 11968880.93 11968881.10 11968881.28 0.0089 0.0016

Uranus 28057-08-02 09:21 G 11968882.73 11968882.89 11968883.06 0.0133 0.0032

Neptune 28057-10-27 17:31 G 11968969.05 11968969.23 11968969.41 0.0089 0.0006

Uranus 28057-10-29 15:07 G 11968970.95 11968971.13 11968971.30 0.0133 0.0011

Neptune 28058-01-23 20:24 G 11969057.18 11969057.35 11969057.53 0.0089 0.0004

Uranus 28058-01-25 20:38 G 11969059.18 11969059.36 11969059.53 0.0133 0.0011

Neptune 28058-04-21 23:17 G 11969145.30 11969145.47 11969145.65 0.0089 0.0013

Uranus 28058-04-24 01:55 G 11969147.42 11969147.58 11969147.75 0.0133 0.0031

Neptune 28058-07-19 02:09 G 11969233.43 11969233.59 11969233.77 0.0089 0.0022

Uranus 28058-07-21 07:26 G 11969235.65 11969235.81 11969235.97 0.0133 0.0052

Neptune 28058-10-15 05:02 G 11969321.55 11969321.71 11969321.88 0.0089 0.0031

Uranus 28058-10-17 12:43 G 11969323.89 11969324.03 11969324.18 0.0133 0.0073

Neptune 28059-01-11 08:09 G 11969409.68 11969409.84 11969410.00 0.0089 0.0041

Uranus 28059-01-13 18:00 G 11969412.14 11969412.25 11969412.38 0.0133 0.0093

Neptune 28059-04-09 10:48 G 11969497.81 11969497.95 11969498.10 0.0089 0.0050

Uranus 28059-04-11 23:31 G 11969500.39 11969500.48 11969500.57 0.0133 0.0113

Neptune 28059-07-06 13:41 G 11969585.95 11969586.07 11969586.21 0.0089 0.0059

Neptune 28059-10-02 16:33 G 11969674.09 11969674.19 11969674.31 0.0089 0.0068

Jupiter 28059-12-25 23:02 G 11969758.37 11969758.46 11969758.55 0.0511 0.0427

Neptune 28059-12-29 19:26 G 11969762.23 11969762.31 11969762.40 0.0089 0.0078

Venus 28060-01-02 12:14 G 11969765.92 11969766.01 11969766.10 0.3691 0.2642

Jupiter 28060-03-25 03:36 G 11969848.53 11969848.65 11969848.78 0.0514 0.0347

Neptune 28060-03-26 22:19 G 11969850.40 11969850.43 11969850.47 0.0089 0.0087

Venus 28061-07-15 22:19 G 11970326.36 11970326.43 11970326.49 0.3680 0.3016

Mars 28061-09-07 05:17 G 11970379.60 11970379.72 11970379.85 0.1799 0.0919

Mars 28062-07-01 09:07 G 11970676.77 11970676.88 11970676.99 0.1741 0.0860

Moon 28064-03-04 15:07 G 11971289.05 11971289.13 11971289.21 0.2661 0.1877

Earth 28064-03-04 15:21 G 11971289.06 11971289.14 11971289.23 0.2666 0.1821 *

Saturn 28065-07-13 08:53 G 11971784.74 11971784.87 11971785.01 0.0296 0.0178

Venus 28065-07-18 11:02 G 11971789.83 11971789.96 11971790.09 0.3692 0.0048

Jupiter 28065-08-14 20:38 G 11971817.23 11971817.36 11971817.48 0.0515 0.0167

Saturn 28065-10-10 06:43 G 11971873.61 11971873.78 11971873.95 0.0296 0.0011

Jupiter 28065-11-12 04:05 G 11971906.60 11971906.67 11971906.75 0.0512 0.0426

Saturn 28066-01-07 03:50 G 11971962.53 11971962.66 11971962.81 0.0296 0.0158

Venus 28067-01-29 16:48 G 11972350.09 11972350.20 11972350.31 0.3679 0.1201

Venus 28071-02-01 09:36 G 11973813.80 11973813.90 11973813.99 0.3692 0.2432

Jupiter 28072-01-12 02:09 G 11974158.42 11974158.59 11974158.75 0.0513 0.0153

Venus 28072-08-14 11:45 G 11974373.88 11974373.99 11974374.10 0.3679 0.0697

Moon 28074-09-04 06:00 G 11975124.66 11975124.75 11975124.85 0.2663 0.2020

Earth 28074-09-04 07:26 G 11975124.71 11975124.81 11975124.92 0.2665 0.1860 *

Moon 28077-03-07 08:53 G 11976039.76 11976039.87 11976039.99 0.2666 0.0539

Earth 28077-03-07 09:50 G 11976039.79 11976039.91 11976040.02 0.2666 0.0397 *

Jupiter 28077-06-03 00:43 G 11976127.42 11976127.53 11976127.63 0.0516 0.0307

Jupiter 28077-08-31 08:09 G 11976216.73 11976216.84 11976216.95 0.0513 0.0283

Venus 28078-02-28 06:57 G 11976397.71 11976397.79 11976397.87 0.3678 0.2664

Saturn 28079-11-01 02:24 G 11977008.53 11977008.60 11977008.67 0.0265 0.0223

Saturn 28080-01-28 13:26 G 11977096.94 11977097.06 11977097.18 0.0264 0.0129

Saturn 28080-04-26 00:43 G 11977185.39 11977185.53 11977185.67 0.0264 0.0034

Saturn 28080-07-23 12:00 G 11977273.86 11977274.00 11977274.14 0.0264 0.0064

Saturn 28080-10-19 23:31 G 11977362.37 11977362.48 11977362.59 0.0264 0.0162

Saturn 28081-01-16 11:17 G 11977450.95 11977450.97 11977450.99 0.0264 0.0262

Mars 28083-03-19 16:33 G 11978243.10 11978243.19 11978243.29 0.1726 0.1149

Jupiter 28083-10-31 00:14 G 11978468.34 11978468.51 11978468.69 0.0513 0.0044

Moon 28087-09-07 10:33 G 11979875.79 11979875.94 11979876.08 0.2669 0.0582

Earth 28087-09-07 11:45 G 11979875.85 11979875.99 11979876.13 0.2665 0.0717 *

Jupiter 28089-03-22 04:48 G 11980437.64 11980437.70 11980437.77 0.0517 0.0448

Jupiter 28089-06-19 12:00 G 11980526.87 11980527.00 11980527.13 0.0514 0.0140

Moon 28090-03-10 03:36 G 11980790.55 11980790.65 11980790.76 0.2671 0.1038

Earth 28090-03-10 04:19 G 11980790.57 11980790.68 11980790.78 0.2667 0.1069 *

Mars 28091-10-17 03:21 G 11981376.50 11981376.64 11981376.78 0.1808 0.0623

Mars 28092-08-09 00:57 G 11981673.42 11981673.54 11981673.67 0.1733 0.0217

Saturn 28094-11-30 06:29 G 11982516.67 11982516.77 11982516.87 0.0295 0.0238

Saturn 28095-02-27 04:33 G 11982605.52 11982605.69 11982605.85 0.0296 0.0068

Saturn 28095-05-27 01:55 G 11982694.42 11982694.58 11982694.74 0.0296 0.0099

Jupiter 28095-08-18 23:17 G 11982778.31 11982778.47 11982778.62 0.0512 0.0227

Saturn 28095-08-23 22:33 G 11982783.38 11982783.44 11982783.53 0.0296 0.0262

Uranus 28099-02-06 18:43 G 11984046.25 11984046.28 11984046.34 0.0145 0.0136

Uranus 28099-05-05 23:02 G 11984134.38 11984134.46 11984134.56 0.0145 0.0114

Uranus 28099-08-02 03:21 G 11984222.54 11984222.64 11984222.76 0.0145 0.0092

Uranus 28099-10-29 07:55 G 11984310.71 11984310.83 11984310.95 0.0145 0.0070

Uranus 28100-01-25 12:14 G 11984398.88 11984399.01 11984399.15 0.0145 0.0047

Uranus 28100-04-23 16:48 G 11984487.06 11984487.20 11984487.34 0.0145 0.0025

Uranus 28100-07-20 21:07 G 11984575.24 11984575.38 11984575.53 0.0145 0.0003

Uranus 28100-10-17 01:41 G 11984663.43 11984663.57 11984663.71 0.0145 0.0021

Uranus 28101-01-13 06:14 G 11984751.62 11984751.76 11984751.89 0.0145 0.0045

Mars 28101-03-09 05:45 G 11984806.61 11984806.74 11984806.88 0.1799 0.0742

Jupiter 28101-04-08 15:21 G 11984837.00 11984837.14 11984837.27 0.0514 0.0023

Uranus 28101-04-11 10:48 G 11984839.82 11984839.95 11984840.08 0.0146 0.0068

Uranus 28101-07-08 15:21 G 11984928.03 11984928.14 11984928.25 0.0146 0.0092

Uranus 28101-10-04 19:41 G 11985016.25 11985016.32 11985016.42 0.0146 0.0116

Mars 28101-12-31 09:07 G 11985103.77 11985103.88 11985103.99 0.1741 0.0736

Uranus 28102-01-01 00:43 G 11985104.49 11985104.53 11985104.57 0.0146 0.0139

Moon 28103-03-13 22:33 G 11985541.41 11985541.44 11985541.48 0.2674 0.2478

Earth 28103-03-13 22:48 G 11985541.42 11985541.45 11985541.48 0.2667 0.2555 *

Jupiter 28107-06-07 21:36 G 11987088.30 11987088.40 11987088.50 0.0511 0.0418

Jupiter 28107-09-06 02:24 G 11987178.48 11987178.60 11987178.72 0.0514 0.0357

Saturn 28109-03-21 05:02 G 11987740.67 11987740.71 11987740.76 0.0265 0.0250

Saturn 28109-06-17 16:05 G 11987829.06 11987829.17 11987829.29 0.0265 0.0155

Saturn 28109-09-14 03:21 G 11987917.50 11987917.64 11987917.78 0.0265 0.0059

Saturn 28109-12-11 14:38 G 11988005.97 11988006.11 11988006.25 0.0265 0.0038

Moon 28110-03-06 19:41 G 11988091.23 11988091.32 11988091.41 0.2662 0.1575

Earth 28110-03-06 20:24 G 11988091.26 11988091.35 11988091.44 0.2666 0.1529 *

Saturn 28110-03-10 02:09 G 11988094.47 11988094.59 11988094.71 0.0265 0.0136

Saturn 28110-06-06 13:55 G 11988183.02 11988183.08 11988183.14 0.0265 0.0236

Mars 28111-05-23 17:31 G 11988534.20 11988534.23 11988534.26 0.1749 0.1673

Jupiter 28113-01-25 18:57 G 11989147.16 11989147.29 11989147.41 0.0515 0.0168

Jupiter 28113-04-25 02:24 G 11989236.53 11989236.60 11989236.68 0.0512 0.0423

Venus 28116-08-09 11:31 G 11990438.87 11990438.98 11990439.10 0.3691 0.1782

Venus 28118-02-20 20:24 G 11990999.27 11990999.35 11990999.44 0.3680 0.2409

Jupiter 28119-06-25 00:14 G 11991488.35 11991488.51 11991488.68 0.0513 0.0157

Moon 28120-09-05 12:14 G 11991926.90 11991927.01 11991927.13 0.2664 0.1591

Earth 28120-09-05 13:41 G 11991926.95 11991927.07 11991927.20 0.2665 0.1351 *

Venus 28122-02-23 10:19 G 11992462.81 11992462.93 11992463.06 0.3692 0.0797

Mars 28122-09-18 16:48 G 11992670.12 11992670.20 11992670.29 0.1725 0.1279

Moon 28123-03-09 13:55 G 11992841.96 11992842.08 11992842.19 0.2666 0.0189

Earth 28123-03-09 14:38 G 11992842.00 11992842.11 11992842.22 0.2666 0.0092 *

Venus 28123-09-06 15:07 G 11993023.02 11993023.13 11993023.25 0.3679 0.0565

Saturn 28124-04-19 07:41 G 11993248.76 11993248.82 11993248.89 0.0296 0.0273

Saturn 28124-07-17 06:00 G 11993337.58 11993337.75 11993337.91 0.0296 0.0101

Saturn 28124-10-14 03:21 G 11993426.48 11993426.64 11993426.81 0.0296 0.0067

Jupiter 28124-11-13 22:33 G 11993457.34 11993457.44 11993457.55 0.0516 0.0315

Saturn 28125-01-11 00:14 G 11993515.42 11993515.51 11993515.62 0.0296 0.0231

Jupiter 28125-02-11 06:14 G 11993546.64 11993546.76 11993546.87 0.0513 0.0277

Venus 28127-09-09 08:38 G 11994486.80 11994486.86 11994486.92 0.3692 0.3233

Venus 28129-03-22 10:05 G 11995046.82 11995046.92 11995047.03 0.3679 0.1365

Jupiter 28131-04-12 22:19 G 11995798.26 11995798.43 11995798.61 0.0512 0.0042

Mars 28131-04-18 03:50 G 11995803.53 11995803.66 11995803.79 0.1808 0.0802

Mars 28132-02-09 00:57 G 11996100.42 11996100.54 11996100.67 0.1733 0.0333

Moon 28133-09-08 16:48 G 11996678.06 11996678.20 11996678.33 0.2669 0.1073

Earth 28133-09-08 18:00 G 11996678.12 11996678.25 11996678.38 0.2665 0.1218 *

Venus 28134-10-06 05:17 G 11997070.68 11997070.72 11997070.77 0.3678 0.3353

Moon 28136-03-11 08:38 G 11997592.76 11997592.86 11997592.96 0.2672 0.1275

Earth 28136-03-11 09:07 G 11997592.78 11997592.88 11997592.98 0.2667 0.1375 *

Jupiter 28136-09-02 02:53 G 11997767.56 11997767.62 11997767.68 0.0517 0.0455

Neptune 28136-09-02 22:05 G 11997768.38 11997768.42 11997768.48 0.0088 0.0081

Neptune 28136-11-29 23:31 G 11997856.42 11997856.48 11997856.56 0.0088 0.0075

Jupiter 28136-11-30 10:05 G 11997856.79 11997856.92 11997857.05 0.0514 0.0133

Neptune 28137-02-26 00:57 G 11997944.47 11997944.54 11997944.64 0.0088 0.0068

Neptune 28137-05-25 02:38 G 11998032.52 11998032.61 11998032.72 0.0088 0.0060

Neptune 28137-08-21 04:05 G 11998120.57 11998120.67 11998120.79 0.0088 0.0053

Neptune 28137-11-17 05:31 G 11998208.62 11998208.73 11998208.86 0.0088 0.0046

Neptune 28138-02-13 07:26 G 11998296.68 11998296.81 11998296.93 0.0088 0.0039

Neptune 28138-05-12 08:53 G 11998384.74 11998384.87 11998385.00 0.0088 0.0031

Neptune 28138-08-08 10:19 G 11998472.80 11998472.93 11998473.07 0.0088 0.0024

Neptune 28138-11-04 12:00 G 11998560.86 11998561.00 11998561.14 0.0088 0.0017

Saturn 28138-11-04 19:12 G 11998561.20 11998561.30 11998561.40 0.0265 0.0178

Neptune 28139-01-31 13:26 G 11998648.92 11998649.06 11998649.20 0.0088 0.0010

Saturn 28139-02-01 06:14 G 11998649.63 11998649.76 11998649.90 0.0265 0.0083

Neptune 28139-04-29 15:07 G 11998736.99 11998737.13 11998737.27 0.0088 0.0002

Saturn 28139-04-30 17:31 G 11998738.09 11998738.23 11998738.37 0.0264 0.0015

Neptune 28139-07-26 16:33 G 11998825.05 11998825.19 11998825.33 0.0088 0.0005

Saturn 28139-07-28 05:02 G 11998826.58 11998826.71 11998826.84 0.0264 0.0112

Neptune 28139-10-22 18:14 G 11998913.12 11998913.26 11998913.40 0.0088 0.0012

Saturn 28139-10-24 16:33 G 11998915.11 11998915.19 11998915.28 0.0264 0.0211

Neptune 28140-01-18 19:41 G 11999001.19 11999001.32 11999001.46 0.0088 0.0020

Neptune 28140-04-15 21:07 G 11999089.25 11999089.38 11999089.53 0.0088 0.0028

Uranus 28140-06-08 12:43 G 11999143.02 11999143.03 11999143.08 0.0133 0.0132

Neptune 28140-07-12 22:48 G 11999177.32 11999177.45 11999177.59 0.0088 0.0034

Uranus 28140-09-04 18:43 G 11999231.19 11999231.28 11999231.39 0.0133 0.0109

Mars 28140-09-07 06:14 G 11999233.62 11999233.76 11999233.89 0.1799 0.0586

Neptune 28140-10-09 00:29 G 11999265.40 11999265.52 11999265.65 0.0088 0.0042

Uranus 28140-12-02 00:29 G 11999319.40 11999319.52 11999319.66 0.0133 0.0087

Neptune 28141-01-05 01:55 G 11999353.47 11999353.58 11999353.71 0.0088 0.0049

Uranus 28141-02-28 06:00 G 11999407.61 11999407.75 11999407.92 0.0133 0.0066

Neptune 28141-04-03 03:36 G 11999441.55 11999441.65 11999441.76 0.0088 0.0056

Uranus 28141-05-27 12:00 G 11999495.84 11999496.00 11999496.16 0.0133 0.0044

Neptune 28141-06-30 05:02 G 11999529.63 11999529.71 11999529.82 0.0088 0.0064

Mars 28141-07-01 09:21 G 11999530.77 11999530.89 11999531.01 0.1741 0.0598

Uranus 28141-08-23 17:31 G 11999584.06 11999584.23 11999584.40 0.0133 0.0023

Neptune 28141-09-26 06:43 G 11999617.71 11999617.78 11999617.87 0.0088 0.0071

Uranus 28141-11-19 23:02 G 11999672.29 11999672.46 11999672.64 0.0133 0.0004

Neptune 28141-12-23 08:09 G 11999705.80 11999705.84 11999705.92 0.0088 0.0079

Uranus 28142-02-16 04:33 G 11999760.52 11999760.69 11999760.86 0.0133 0.0020

Neptune 28142-03-21 09:50 G 11999793.90 11999793.91 11999793.95 0.0088 0.0087

Uranus 28142-05-15 10:05 G 11999848.76 11999848.92 11999849.09 0.0133 0.0040

Uranus 28142-08-11 15:36 G 11999937.00 11999937.15 11999937.30 0.0133 0.0061

Uranus 28142-11-07 20:38 G 12000025.24 12000025.36 12000025.51 0.0133 0.0082

Jupiter 28143-01-29 20:24 G 12000108.20 12000108.35 12000108.50 0.0512 0.0238

Uranus 28143-02-04 02:09 G 12000113.49 12000113.59 12000113.70 0.0133 0.0102

Moon 28143-03-05 06:57 G 12000142.77 12000142.79 12000142.81 0.2659 0.2587

Earth 28143-03-05 06:57 G 12000142.78 12000142.79 12000142.80 0.2666 0.2640 *

Uranus 28143-05-03 07:26 G 12000201.75 12000201.81 12000201.88 0.0133 0.0122

Jupiter 28148-09-18 14:09 G 12002166.95 12002167.09 12002167.22 0.0514 0.0021

Mars 28150-11-21 17:31 G 12002961.18 12002961.23 12002961.29 0.1748 0.1548

Saturn 28153-12-04 03:50 G 12004069.52 12004069.66 12004069.81 0.0295 0.0157

Saturn 28154-03-03 01:41 G 12004158.40 12004158.57 12004158.74 0.0296 0.0012

Saturn 28154-05-30 22:48 G 12004247.32 12004247.45 12004247.59 0.0296 0.0176

Jupiter 28154-11-17 18:57 G 12004418.20 12004418.29 12004418.39 0.0511 0.0426

Jupiter 28155-02-16 00:00 G 12004508.37 12004508.50 12004508.62 0.0514 0.0350

Moon 28156-03-07 00:29 G 12004893.43 12004893.52 12004893.62 0.2663 0.1371

Earth 28156-03-07 01:12 G 12004893.45 12004893.55 12004893.65 0.2666 0.1230 *

Jupiter 28160-07-07 17:17 G 12006477.10 12006477.22 12006477.35 0.0515 0.0166

Jupiter 28160-10-05 00:57 G 12006566.47 12006566.54 12006566.61 0.0512 0.0425

Mars 28162-03-19 16:48 G 12007097.13 12007097.20 12007097.28 0.1725 0.1409

Moon 28166-09-06 18:43 G 12008729.14 12008729.28 12008729.42 0.2666 0.0933

Earth 28166-09-06 20:09 G 12008729.20 12008729.34 12008729.48 0.2665 0.0834 *

Jupiter 28166-12-04 22:33 G 12008818.28 12008818.44 12008818.61 0.0514 0.0162

Venus 28167-08-31 12:00 G 12009087.97 12009088.00 12009088.02 0.3690 0.3577

Saturn 28168-03-23 21:50 G 12009293.33 12009293.41 12009293.50 0.0265 0.0204

Saturn 28168-06-20 08:53 G 12009381.75 12009381.87 12009382.00 0.0265 0.0109

Saturn 28168-09-16 20:09 G 12009470.20 12009470.34 12009470.48 0.0265 0.0013

Saturn 28168-12-14 07:26 G 12009558.68 12009558.81 12009558.95 0.0265 0.0086

Moon 28169-03-09 18:43 G 12009644.17 12009644.28 12009644.40 0.2667 0.0155

Earth 28169-03-09 19:41 G 12009644.20 12009644.32 12009644.43 0.2666 0.0235 *

Saturn 28169-03-12 19:12 G 12009647.20 12009647.30 12009647.40 0.0265 0.0185

Venus 28169-03-14 00:14 G 12009648.49 12009648.51 12009648.53 0.3680 0.3585

Mars 28170-10-17 04:19 G 12010230.55 12010230.68 12010230.80 0.1808 0.0973

Pluto 28171-02-03 21:07 G 12010340.36 12010340.38 12010340.43 0.0069 0.0067

Pluto 28171-05-02 21:50 G 12010428.34 12010428.41 12010428.49 0.0070 0.0057

Pluto 28171-07-29 22:19 G 12010516.35 12010516.43 12010516.54 0.0070 0.0048

Mars 28171-08-10 01:12 G 12010527.42 12010527.55 12010527.67 0.1733 0.0470

Pluto 28171-10-25 22:48 G 12010604.35 12010604.45 12010604.57 0.0070 0.0038

Pluto 28172-01-21 23:31 G 12010692.37 12010692.48 12010692.61 0.0070 0.0028

Pluto 28172-04-19 00:14 G 12010780.38 12010780.51 12010780.64 0.0070 0.0018

Jupiter 28172-04-25 21:07 G 12010787.27 12010787.38 12010787.48 0.0516 0.0315

Pluto 28172-07-16 00:43 G 12010868.40 12010868.53 12010868.66 0.0070 0.0009

Jupiter 28172-07-24 04:19 G 12010876.57 12010876.68 12010876.80 0.0513 0.0274

Pluto 28172-10-12 01:26 G 12010956.43 12010956.56 12010956.69 0.0070 0.0002

Pluto 28173-01-08 01:55 G 12011044.45 12011044.58 12011044.71 0.0070 0.0011

Venus 28173-03-16 11:02 G 12011111.83 12011111.96 12011112.08 0.3691 0.0909

Pluto 28173-04-06 02:24 G 12011132.48 12011132.60 12011132.73 0.0071 0.0022

Pluto 28173-07-03 02:53 G 12011220.51 12011220.62 12011220.75 0.0071 0.0032

Pluto 28173-09-29 03:21 G 12011308.55 12011308.64 12011308.76 0.0071 0.0042

Pluto 28173-12-26 04:05 G 12011396.59 12011396.67 12011396.77 0.0071 0.0052

Pluto 28174-03-24 04:33 G 12011484.64 12011484.69 12011484.77 0.0071 0.0062

Venus 28174-09-27 18:43 G 12011672.18 12011672.28 12011672.38 0.3680 0.1784

Jupiter 28178-09-22 20:24 G 12013128.17 12013128.35 12013128.52 0.0512 0.0040

Venus 28178-09-30 09:36 G 12013135.79 12013135.90 12013136.02 0.3692 0.1642

Moon 28179-09-09 23:02 G 12013480.34 12013480.46 12013480.58 0.2669 0.1547

Earth 28179-09-10 00:00 G 12013480.39 12013480.50 12013480.62 0.2665 0.1709 *

Mars 28180-03-08 06:43 G 12013660.63 12013660.78 12013660.92 0.1799 0.0407

Venus 28180-04-12 13:26 G 12013695.95 12013696.06 12013696.18 0.3679 0.0162

Mars 28180-12-30 09:21 G 12013957.77 12013957.89 12013958.01 0.1740 0.0482

Moon 28182-03-12 13:41 G 12014394.98 12014395.07 12014395.16 0.2673 0.1642

Earth 28182-03-12 14:09 G 12014395.00 12014395.09 12014395.17 0.2667 0.1679 *

Uranus 28183-02-28 03:07 G 12014747.57 12014747.63 12014747.70 0.0145 0.0126

Saturn 28183-04-23 05:31 G 12014801.60 12014801.73 12014801.87 0.0296 0.0189

Uranus 28183-05-27 07:26 G 12014835.72 12014835.81 12014835.91 0.0145 0.0104

Saturn 28183-07-21 03:36 G 12014890.48 12014890.65 12014890.82 0.0296 0.0020

Uranus 28183-08-23 11:45 G 12014923.88 12014923.99 12014924.11 0.0145 0.0082

Saturn 28183-10-18 00:43 G 12014979.39 12014979.53 12014979.68 0.0296 0.0147

Uranus 28183-11-19 16:19 G 12015012.05 12015012.18 12015012.30 0.0145 0.0060

Jupiter 28184-02-13 00:43 G 12015097.48 12015097.53 12015097.59 0.0517 0.0463

Uranus 28184-02-15 20:38 G 12015100.22 12015100.36 12015100.50 0.0145 0.0037

Jupiter 28184-05-12 07:55 G 12015186.70 12015186.83 12015186.96 0.0514 0.0125

Uranus 28184-05-14 00:57 G 12015188.40 12015188.54 12015188.68 0.0145 0.0015

Uranus 28184-08-10 05:31 G 12015276.58 12015276.73 12015276.87 0.0145 0.0009

Uranus 28184-11-06 09:50 G 12015364.77 12015364.91 12015365.06 0.0145 0.0032

Uranus 28185-02-02 14:24 G 12015452.97 12015453.10 12015453.24 0.0145 0.0055

Uranus 28185-05-01 18:57 G 12015541.17 12015541.29 12015541.42 0.0146 0.0078

Uranus 28185-07-28 23:45 G 12015629.38 12015629.49 12015629.59 0.0146 0.0102

Uranus 28185-10-25 04:05 G 12015717.61 12015717.67 12015717.75 0.0146 0.0126

Venus 28185-10-27 08:38 G 12015719.76 12015719.86 12015719.95 0.3678 0.2038

Moon 28189-03-05 11:45 G 12016944.94 12016944.99 12016945.03 0.2660 0.2430

Earth 28189-03-05 12:00 G 12016944.94 12016945.00 12016945.05 0.2666 0.2346 *

Mars 28189-07-29 08:53 G 12017090.86 12017090.87 12017090.88 0.1791 0.1785

Mars 28190-05-22 17:31 G 12017388.16 12017388.23 12017388.31 0.1748 0.1424

Jupiter 28190-07-11 18:14 G 12017438.11 12017438.26 12017438.42 0.0511 0.0237

Jupiter 28196-02-29 12:00 G 12019496.86 12019497.00 12019497.13 0.0515 0.0025

Saturn 28197-08-11 00:57 G 12020025.48 12020025.54 12020025.62 0.0265 0.0225

Saturn 28197-11-07 12:14 G 12020113.89 12020114.01 12020114.13 0.0265 0.0130

Saturn 28198-02-03 23:31 G 12020202.34 12020202.48 12020202.62 0.0265 0.0035

Saturn 28198-05-03 10:48 G 12020290.81 12020290.95 12020291.09 0.0264 0.0064

Saturn 28198-07-30 22:19 G 12020379.32 12020379.43 12020379.54 0.0264 0.0163

Saturn 28198-10-27 10:05 G 12020467.91 12020467.92 12020467.93 0.0264 0.0263

Mars 28201-09-18 17:02 G 12021524.16 12021524.21 12021524.27 0.1725 0.1545

Moon 28202-03-09 05:17 G 12021695.62 12021695.72 12021695.83 0.2663 0.0978

Earth 28202-03-09 06:00 G 12021695.65 12021695.75 12021695.86 0.2666 0.0939 *

Jupiter 28202-04-30 15:50 G 12021748.08 12021748.16 12021748.25 0.0511 0.0439

Jupiter 28202-07-29 20:53 G 12021838.24 12021838.37 12021838.50 0.0514 0.0337

Jupiter 28207-12-19 15:50 G 12023807.04 12023807.16 12023807.29 0.0515 0.0163

Jupiter 28208-03-17 23:31 G 12023896.41 12023896.48 12023896.55 0.0512 0.0429

Mars 28210-04-18 04:33 G 12024657.58 12024657.69 12024657.80 0.1808 0.1132

Mars 28211-02-09 01:12 G 12024954.43 12024954.55 12024954.67 0.1733 0.0601

Moon 28212-09-08 00:57 G 12025531.40 12025531.54 12025531.68 0.2668 0.0606

Earth 28212-09-08 02:24 G 12025531.45 12025531.60 12025531.75 0.2665 0.0320 *

Saturn 28212-09-10 04:05 G 12025533.58 12025533.67 12025533.77 0.0295 0.0241

Saturn 28212-12-08 02:09 G 12025622.42 12025622.59 12025622.76 0.0295 0.0070

Saturn 28213-03-06 23:31 G 12025711.32 12025711.48 12025711.64 0.0296 0.0097

Saturn 28213-06-03 20:24 G 12025800.28 12025800.35 12025800.44 0.0296 0.0260

Jupiter 28214-05-17 19:41 G 12026148.16 12026148.32 12026148.49 0.0513 0.0152

Moon 28215-03-11 23:45 G 12026446.38 12026446.49 12026446.60 0.2669 0.0384

Earth 28215-03-12 00:29 G 12026446.41 12026446.52 12026446.63 0.2666 0.0511 *

Mars 28219-09-08 07:12 G 12028087.65 12028087.80 12028087.94 0.1800 0.0225

Jupiter 28219-10-07 19:26 G 12028117.21 12028117.31 12028117.41 0.0516 0.0314

Jupiter 28220-01-05 02:38 G 12028206.50 12028206.61 12028206.73 0.0513 0.0274

Mars 28220-07-01 09:21 G 12028384.77 12028384.89 12028385.02 0.1740 0.0350

Neptune 28220-08-20 14:24 G 12028435.06 12028435.10 12028435.19 0.0089 0.0083

Neptune 28220-11-16 17:31 G 12028523.15 12028523.23 12028523.35 0.0089 0.0074

Neptune 28221-02-12 20:53 G 12028611.25 12028611.37 12028611.50 0.0089 0.0063

Neptune 28221-05-11 23:45 G 12028699.36 12028699.49 12028699.65 0.0089 0.0054

Neptune 28221-08-08 02:53 G 12028787.47 12028787.62 12028787.78 0.0089 0.0044

Neptune 28221-11-04 06:00 G 12028875.59 12028875.75 12028875.92 0.0089 0.0035

Neptune 28222-01-31 08:53 G 12028963.71 12028963.87 12028964.05 0.0089 0.0025

Neptune 28222-04-29 12:00 G 12029051.83 12029052.00 12029052.18 0.0089 0.0015

Neptune 28222-07-26 14:53 G 12029139.95 12029140.12 12029140.30 0.0089 0.0006

Neptune 28222-10-22 18:00 G 12029228.07 12029228.25 12029228.43 0.0089 0.0004

Neptune 28223-01-18 20:53 G 12029316.19 12029316.37 12029316.55 0.0089 0.0013

Neptune 28223-04-16 23:45 G 12029404.32 12029404.49 12029404.66 0.0089 0.0022

Neptune 28223-07-14 02:24 G 12029492.45 12029492.60 12029492.78 0.0089 0.0032

Neptune 28223-10-10 05:31 G 12029580.58 12029580.73 12029580.89 0.0089 0.0041

Neptune 28224-01-06 08:24 G 12029668.71 12029668.85 12029669.00 0.0089 0.0050

Neptune 28224-04-03 11:02 G 12029756.84 12029756.96 12029757.10 0.0089 0.0060

Venus 28224-04-07 11:31 G 12029760.89 12029760.98 12029761.07 0.3691 0.2680

Uranus 28224-06-29 21:07 G 12029844.32 12029844.38 12029844.46 0.0133 0.0122

Neptune 28224-06-30 13:55 G 12029844.98 12029845.08 12029845.20 0.0089 0.0069

Uranus 28224-09-26 03:07 G 12029932.52 12029932.63 12029932.75 0.0133 0.0099

Neptune 28224-09-26 16:48 G 12029933.13 12029933.20 12029933.30 0.0089 0.0078

Uranus 28224-12-23 08:53 G 12030020.73 12030020.87 12030021.01 0.0133 0.0078

Neptune 28224-12-23 19:41 G 12030021.30 12030021.32 12030021.36 0.0089 0.0087

Uranus 28225-03-21 14:24 G 12030108.95 12030109.10 12030109.27 0.0133 0.0056

Uranus 28225-06-17 20:09 G 12030197.18 12030197.34 12030197.51 0.0133 0.0034

Moon 28225-09-11 05:31 G 12030282.64 12030282.73 12030282.81 0.2670 0.2153

Earth 28225-09-11 06:14 G 12030282.68 12030282.76 12030282.84 0.2665 0.2208 *

Uranus 28225-09-14 01:55 G 12030285.40 12030285.58 12030285.75 0.0133 0.0013

Venus 28225-10-19 22:33 G 12030321.37 12030321.44 12030321.50 0.3680 0.2972

Uranus 28225-12-11 07:26 G 12030373.64 12030373.81 12030373.98 0.0133 0.0008

Jupiter 28226-03-05 18:14 G 12030458.09 12030458.26 12030458.43 0.0513 0.0039

Uranus 28226-03-09 12:57 G 12030461.87 12030462.04 12030462.21 0.0133 0.0029

Uranus 28226-06-05 18:14 G 12030550.11 12030550.26 12030550.42 0.0133 0.0050

Uranus 28226-09-01 23:31 G 12030638.35 12030638.48 12030638.64 0.0133 0.0071

Uranus 28226-11-29 05:02 G 12030726.59 12030726.71 12030726.84 0.0133 0.0091

Saturn 28226-12-30 03:36 G 12030757.62 12030757.65 12030757.70 0.0266 0.0253

Uranus 28227-02-25 10:05 G 12030814.85 12030814.92 12030815.03 0.0133 0.0112

Saturn 28227-03-28 14:38 G 12030846.00 12030846.11 12030846.23 0.0265 0.0158

Uranus 28227-05-24 15:21 G 12030903.14 12030903.14 12030903.18 0.0133 0.0132

Saturn 28227-06-25 01:55 G 12030934.44 12030934.58 12030934.72 0.0265 0.0062

Saturn 28227-09-21 13:12 G 12031022.91 12031023.05 12031023.19 0.0265 0.0036

Saturn 28227-12-19 00:43 G 12031111.41 12031111.53 12031111.65 0.0265 0.0135

Moon 28228-03-13 18:43 G 12031197.20 12031197.28 12031197.35 0.2672 0.1929

Earth 28228-03-13 18:57 G 12031197.22 12031197.29 12031197.37 0.2667 0.1985 *

Saturn 28228-03-16 12:29 G 12031199.96 12031200.02 12031200.08 0.0265 0.0235

Mars 28229-01-28 09:21 G 12031517.83 12031517.89 12031517.95 0.1791 0.1611

Venus 28229-10-22 10:33 G 12031784.81 12031784.94 12031785.06 0.3691 0.0114

Mars 28229-11-21 17:45 G 12031815.16 12031815.24 12031815.32 0.1748 0.1294

Venus 28231-05-05 17:02 G 12032345.10 12032345.21 12032345.32 0.3679 0.1151

Jupiter 28231-07-26 23:02 G 12032427.41 12032427.46 12032427.52 0.0517 0.0463

Jupiter 28231-10-24 06:14 G 12032516.63 12032516.76 12032516.89 0.0513 0.0123

Moon 28235-03-07 16:19 G 12033747.11 12033747.18 12033747.25 0.2661 0.2050

Earth 28235-03-07 16:48 G 12033747.13 12033747.20 12033747.27 0.2666 0.2052 *

Venus 28235-05-08 09:07 G 12033808.78 12033808.88 12033808.97 0.3692 0.2465

Venus 28236-11-18 12:00 G 12034368.88 12034369.00 12034369.11 0.3679 0.0756

Jupiter 28237-12-22 15:50 G 12034768.01 12034768.16 12034768.32 0.0512 0.0241

Mars 28241-03-19 17:02 G 12035951.19 12035951.21 12035951.24 0.1725 0.1672

Saturn 28242-01-28 05:45 G 12036265.68 12036265.74 12036265.81 0.0296 0.0273

Saturn 28242-04-27 03:50 G 12036354.50 12036354.66 12036354.83 0.0296 0.0101

Venus 28242-06-04 06:57 G 12036392.72 12036392.79 12036392.87 0.3678 0.2719

Saturn 28242-07-25 01:26 G 12036443.40 12036443.56 12036443.73 0.0296 0.0067

Saturn 28242-10-21 22:33 G 12036532.34 12036532.44 12036532.55 0.0296 0.0231

Jupiter 28243-08-12 09:50 G 12036826.77 12036826.91 12036827.04 0.0515 0.0029

Earth 28245-09-06 04:05 G 12037582.62 12037582.67 12037582.73 0.2665 0.2430

Moon 28248-03-09 10:19 G 12038497.82 12038497.93 12038498.04 0.2664 0.0789

Earth 28248-03-09 11:02 G 12038497.85 12038497.96 12038498.07 0.2666 0.0631 *

Jupiter 28249-10-10 13:41 G 12039077.99 12039078.07 12039078.16 0.0511 0.0439

Mars 28249-10-17 05:02 G 12039084.61 12039084.71 12039084.81 0.1808 0.1316

Jupiter 28250-01-08 18:43 G 12039168.15 12039168.28 12039168.41 0.0514 0.0336

Mars 28250-08-10 01:12 G 12039381.44 12039381.55 12039381.67 0.1733 0.0727

Jupiter 28255-05-31 13:41 G 12041136.95 12041137.07 12041137.20 0.0516 0.0174

Jupiter 28255-08-28 21:21 G 12041226.31 12041226.39 12041226.46 0.0512 0.0419

Saturn 28256-08-14 18:14 G 12041578.16 12041578.26 12041578.36 0.0265 0.0176

Saturn 28256-11-11 05:17 G 12041666.59 12041666.72 12041666.86 0.0265 0.0081

Saturn 28257-02-07 16:33 G 12041755.05 12041755.19 12041755.33 0.0265 0.0017

Pluto 28257-03-15 05:17 G 12041790.64 12041790.72 12041790.83 0.0074 0.0065

Saturn 28257-05-07 04:05 G 12041843.54 12041843.67 12041843.80 0.0265 0.0114

Pluto 28257-06-11 08:09 G 12041878.69 12041878.84 12041879.00 0.0074 0.0047

Saturn 28257-08-03 15:36 G 12041932.07 12041932.15 12041932.24 0.0264 0.0214

Pluto 28257-09-07 10:33 G 12041966.77 12041966.94 12041967.14 0.0074 0.0030

Pluto 28257-12-04 13:26 G 12042054.87 12042055.06 12042055.26 0.0074 0.0012

Pluto 28258-03-02 16:05 G 12042142.97 12042143.17 12042143.37 0.0074 0.0005

Pluto 28258-05-29 18:29 G 12042231.09 12042231.27 12042231.47 0.0073 0.0022

Pluto 28258-08-25 20:53 G 12042319.21 12042319.37 12042319.55 0.0073 0.0040

Moon 28258-09-09 07:12 G 12042333.65 12042333.80 12042333.94 0.2668 0.0129

Earth 28258-09-09 08:38 G 12042333.71 12042333.86 12042334.01 0.2665 0.0188 *

Pluto 28258-11-21 23:31 G 12042407.36 12042407.48 12042407.61 0.0073 0.0057

Mars 28259-03-09 07:26 G 12042514.66 12042514.81 12042514.95 0.1800 0.0081

Mars 28259-12-31 09:36 G 12042811.77 12042811.90 12042812.02 0.1740 0.0215

Moon 28261-03-12 04:48 G 12043248.59 12043248.70 12043248.81 0.2670 0.0779

Earth 28261-03-12 05:31 G 12043248.62 12043248.73 12043248.83 0.2666 0.0820 *

Jupiter 28261-10-27 16:48 G 12043478.03 12043478.20 12043478.36 0.0513 0.0138

Uranus 28266-12-23 06:57 G 12045360.76 12045360.79 12045360.83 0.0145 0.0139

Jupiter 28267-03-19 17:45 G 12045447.14 12045447.24 12045447.35 0.0516 0.0316

Uranus 28267-03-21 11:17 G 12045448.89 12045448.97 12045449.05 0.0145 0.0117

Jupiter 28267-06-17 01:12 G 12045536.43 12045536.55 12045536.66 0.0513 0.0274

Uranus 28267-06-17 15:21 G 12045537.04 12045537.14 12045537.25 0.0145 0.0096

Uranus 28267-09-13 19:41 G 12045625.21 12045625.32 12045625.45 0.0145 0.0074

Uranus 28267-12-11 00:14 G 12045713.38 12045713.51 12045713.64 0.0145 0.0051

Uranus 28268-03-08 04:33 G 12045801.55 12045801.69 12045801.83 0.0145 0.0028

Uranus 28268-06-04 09:07 G 12045889.73 12045889.88 12045890.02 0.0145 0.0006

Mars 28268-07-29 09:50 G 12045944.82 12045944.91 12045944.99 0.1791 0.1440

Uranus 28268-08-31 13:26 G 12045977.92 12045978.06 12045978.21 0.0145 0.0018

Uranus 28268-11-27 18:00 G 12046066.11 12046066.25 12046066.39 0.0145 0.0041

Uranus 28269-02-23 22:19 G 12046154.31 12046154.43 12046154.57 0.0146 0.0065

Mars 28269-05-22 17:45 G 12046242.15 12046242.24 12046242.34 0.1748 0.1167

Uranus 28269-05-23 03:07 G 12046242.51 12046242.63 12046242.74 0.0146 0.0088

Uranus 28269-08-19 07:26 G 12046330.73 12046330.81 12046330.91 0.0146 0.0112

Uranus 28269-11-15 12:14 G 12046418.96 12046419.01 12046419.07 0.0146 0.0135

Moon 28271-09-12 12:00 G 12047084.96 12047085.00 12047085.04 0.2671 0.2559

Saturn 28271-09-14 02:38 G 12047086.47 12047086.61 12047086.77 0.0295 0.0152

Saturn 28271-12-12 00:29 G 12047175.35 12047175.52 12047175.69 0.0296 0.0020

Saturn 28272-03-09 21:36 G 12047264.28 12047264.40 12047264.54 0.0296 0.0184

Jupiter 28273-08-15 15:21 G 12047787.97 12047788.14 12047788.31 0.0513 0.0051

Moon 28274-03-14 23:45 G 12047999.43 12047999.49 12047999.55 0.2673 0.2250

Earth 28274-03-15 00:00 G 12047999.44 12047999.50 12047999.55 0.2667 0.2291 *

Jupiter 28279-01-05 21:36 G 12049757.34 12049757.40 12049757.45 0.0517 0.0463

Jupiter 28279-04-05 04:33 G 12049846.56 12049846.69 12049846.82 0.0513 0.0123

Venus 28280-11-12 11:02 G 12050433.84 12050433.96 12050434.07 0.3691 0.1793

Moon 28281-03-07 21:07 G 12050549.30 12050549.38 12050549.46 0.2661 0.1875

Earth 28281-03-07 21:36 G 12050549.32 12050549.40 12050549.48 0.2666 0.1759 *

Venus 28282-05-26 20:53 G 12050994.28 12050994.37 12050994.45 0.3680 0.2360

Jupiter 28285-06-03 13:41 G 12052097.92 12052098.07 12052098.22 0.0512 0.0244

Saturn 28286-01-01 20:38 G 12052310.28 12052310.36 12052310.45 0.0265 0.0205

Saturn 28286-03-31 07:41 G 12052398.70 12052398.82 12052398.95 0.0265 0.0110

Venus 28286-05-29 09:50 G 12052457.79 12052457.91 12052458.03 0.3692 0.0814

Saturn 28286-06-27 18:57 G 12052487.15 12052487.29 12052487.43 0.0265 0.0013

Saturn 28286-09-24 06:14 G 12052575.63 12052575.76 12052575.90 0.0265 0.0086

Saturn 28286-12-21 18:00 G 12052664.15 12052664.25 12052664.35 0.0265 0.0185

Venus 28287-12-10 15:21 G 12053018.03 12053018.14 12053018.25 0.3679 0.0513

Mars 28289-04-17 05:17 G 12053511.64 12053511.72 12053511.81 0.1809 0.1481

Mars 28290-02-08 01:26 G 12053808.45 12053808.56 12053808.67 0.1732 0.0858

Jupiter 28291-01-22 08:09 G 12054156.71 12054156.84 12054156.98 0.0514 0.0031

Moon 28291-09-07 08:53 G 12054384.78 12054384.87 12054384.97 0.2666 0.2064

Earth 28291-09-07 10:33 G 12054384.83 12054384.94 12054385.04 0.2666 0.1916 *

Venus 28291-12-13 08:09 G 12054481.79 12054481.84 12054481.90 0.3692 0.3280

Venus 28293-06-25 10:19 G 12055041.82 12055041.93 12055042.04 0.3679 0.1415

Moon 28294-03-10 15:07 G 12055300.02 12055300.13 12055300.24 0.2665 0.0376

Earth 28294-03-10 15:50 G 12055300.05 12055300.16 12055300.27 0.2666 0.0339 *

Jupiter 28297-03-22 11:17 G 12056407.89 12056407.97 12056408.06 0.0511 0.0444

Jupiter 28297-06-20 16:19 G 12056498.05 12056498.18 12056498.31 0.0514 0.0332

Mars 28298-09-07 07:55 G 12056941.68 12056941.83 12056941.98 0.1800 0.0116

Venus 28299-01-09 05:31 G 12057065.68 12057065.73 12057065.77 0.3678 0.3401

Mars 28299-07-01 09:36 G 12057238.77 12057238.90 12057239.03 0.1740 0.0091

Saturn 28301-02-01 04:19 G 12057818.55 12057818.68 12057818.82 0.0296 0.0183

Neptune 28301-03-05 19:26 G 12057851.31 12057851.31 12057851.34 0.0088 0.0088

Saturn 28301-05-01 02:24 G 12057907.43 12057907.60 12057907.77 0.0296 0.0013

Neptune 28301-06-01 21:07 G 12057939.33 12057939.38 12057939.44 0.0088 0.0080

Saturn 28301-07-28 23:31 G 12057996.34 12057996.48 12057996.63 0.0296 0.0154

Neptune 28301-08-28 22:33 G 12058027.37 12058027.44 12058027.52 0.0088 0.0073

Neptune 28301-11-25 00:00 G 12058115.42 12058115.50 12058115.60 0.0088 0.0066

Neptune 28302-02-21 01:26 G 12058203.47 12058203.56 12058203.67 0.0088 0.0059

Neptune 28302-05-20 02:53 G 12058291.52 12058291.62 12058291.75 0.0088 0.0053

Neptune 28302-08-16 04:33 G 12058379.58 12058379.69 12058379.82 0.0088 0.0045

Jupiter 28302-11-11 11:45 G 12058466.86 12058466.99 12058467.11 0.0516 0.0181

Neptune 28302-11-12 06:14 G 12058467.63 12058467.76 12058467.89 0.0088 0.0038

Neptune 28303-02-08 07:41 G 12058555.69 12058555.82 12058555.96 0.0088 0.0031

Jupiter 28303-02-08 19:12 G 12058556.22 12058556.30 12058556.38 0.0512 0.0410

Neptune 28303-05-07 09:21 G 12058643.75 12058643.89 12058644.02 0.0088 0.0023

Neptune 28303-08-03 10:48 G 12058731.81 12058731.95 12058732.09 0.0088 0.0016

Neptune 28303-10-30 12:14 G 12058819.88 12058820.01 12058820.16 0.0088 0.0010

Neptune 28304-01-26 13:55 G 12058907.94 12058908.08 12058908.22 0.0088 0.0002

Neptune 28304-04-23 15:36 G 12058996.00 12058996.15 12058996.29 0.0088 0.0006

Neptune 28304-07-20 17:02 G 12059084.07 12059084.21 12059084.35 0.0088 0.0013

Moon 28304-09-10 13:26 G 12059135.92 12059136.06 12059136.21 0.2668 0.0426

Earth 28304-09-10 14:53 G 12059135.97 12059136.12 12059136.26 0.2665 0.0688 *

Neptune 28304-10-16 18:43 G 12059172.14 12059172.28 12059172.41 0.0088 0.0021

Neptune 28305-01-12 19:55 G 12059260.21 12059260.33 12059260.48 0.0088 0.0029

Neptune 28305-04-10 21:36 G 12059348.28 12059348.40 12059348.54 0.0088 0.0035

Neptune 28305-07-07 23:17 G 12059436.35 12059436.47 12059436.60 0.0088 0.0043

Neptune 28305-10-04 00:43 G 12059524.42 12059524.53 12059524.66 0.0088 0.0050

Neptune 28305-12-31 02:24 G 12059612.50 12059612.60 12059612.71 0.0088 0.0057

Neptune 28306-03-29 03:50 G 12059700.58 12059700.66 12059700.77 0.0088 0.0065

Neptune 28306-06-25 05:31 G 12059788.66 12059788.73 12059788.82 0.0088 0.0072

Neptune 28306-09-21 07:26 G 12059876.75 12059876.81 12059876.87 0.0088 0.0080

Neptune 28306-12-18 08:38 G 12059964.86 12059964.86 12059964.89 0.0088 0.0088

Moon 28307-03-14 09:50 G 12060050.80 12060050.91 12060051.01 0.2670 0.0980

Earth 28307-03-14 10:19 G 12060050.83 12060050.93 12060051.03 0.2666 0.1123 *

Mars 28308-01-29 10:19 G 12060371.82 12060371.93 12060372.03 0.1791 0.1266

Uranus 28308-04-24 00:00 G 12060457.50 12060457.50 12060457.50 0.0133 0.0133

Uranus 28308-07-21 05:31 G 12060545.65 12060545.73 12060545.84 0.0133 0.0111

Uranus 28308-10-17 11:17 G 12060633.85 12060633.97 12060634.11 0.0133 0.0090

Mars 28308-11-21 17:45 G 12060669.14 12060669.24 12060669.34 0.1748 0.1044

Uranus 28309-01-13 17:17 G 12060722.07 12060722.22 12060722.37 0.0133 0.0067

Jupiter 28309-04-09 14:38 G 12060807.95 12060808.11 12060808.28 0.0513 0.0138

Uranus 28309-04-11 22:48 G 12060810.29 12060810.45 12060810.62 0.0133 0.0046

Uranus 28309-07-09 04:33 G 12060898.52 12060898.69 12060898.86 0.0133 0.0024

Uranus 28309-10-05 10:05 G 12060986.75 12060986.92 12060987.10 0.0133 0.0005

Uranus 28310-01-01 15:50 G 12061074.99 12061075.16 12061075.33 0.0133 0.0018

Uranus 28310-03-30 21:07 G 12061163.22 12061163.38 12061163.55 0.0133 0.0039

Uranus 28310-06-27 02:38 G 12061251.46 12061251.61 12061251.77 0.0133 0.0060

Uranus 28310-09-23 07:55 G 12061339.70 12061339.83 12061339.97 0.0133 0.0081

Uranus 28310-12-20 13:12 G 12061427.95 12061428.05 12061428.17 0.0133 0.0101

Uranus 28311-03-18 18:43 G 12061516.22 12061516.28 12061516.35 0.0133 0.0121

Jupiter 28314-08-30 15:36 G 12062777.05 12062777.15 12062777.25 0.0517 0.0326

Jupiter 28314-11-27 23:02 G 12062866.34 12062866.46 12062866.57 0.0513 0.0264

Saturn 28315-05-23 00:14 G 12063042.44 12063042.51 12063042.58 0.0265 0.0223

Saturn 28315-08-19 11:17 G 12063130.85 12063130.97 12063131.09 0.0265 0.0128

Saturn 28315-11-15 22:33 G 12063219.30 12063219.44 12063219.58 0.0265 0.0033

Saturn 28316-02-12 09:50 G 12063307.77 12063307.91 12063308.05 0.0265 0.0066

Saturn 28316-05-10 21:07 G 12063396.28 12063396.38 12063396.50 0.0264 0.0166

Earth 28320-03-16 04:48 G 12064801.68 12064801.70 12064801.73 0.2666 0.2603

Moon 28320-03-16 04:48 G 12064801.69 12064801.70 12064801.71 0.2673 0.2647 *

Jupiter 28321-01-26 12:29 G 12065117.85 12065118.02 12065118.19 0.0512 0.0063

Jupiter 28326-06-18 19:41 G 12067087.27 12067087.32 12067087.38 0.0517 0.0467

Jupiter 28326-09-16 02:53 G 12067176.49 12067176.62 12067176.75 0.0514 0.0120

Moon 28327-03-10 01:55 G 12067351.49 12067351.58 12067351.67 0.2661 0.1497

Earth 28327-03-10 02:24 G 12067351.51 12067351.60 12067351.70 0.2666 0.1469 *

Mars 28328-10-17 05:45 G 12067938.68 12067938.74 12067938.80 0.1809 0.1651

Mars 28329-08-10 01:41 G 12068235.46 12068235.57 12068235.67 0.1732 0.0997

Saturn 28330-06-21 03:21 G 12068550.54 12068550.64 12068550.75 0.0295 0.0233

Saturn 28330-09-18 01:26 G 12068639.39 12068639.56 12068639.73 0.0296 0.0061

Saturn 28330-12-15 22:48 G 12068728.30 12068728.45 12068728.62 0.0296 0.0107

Saturn 28331-03-14 19:41 G 12068817.27 12068817.32 12068817.40 0.0296 0.0270

Venus 28331-12-05 11:17 G 12069082.94 12069082.97 12069082.99 0.3690 0.3604

Jupiter 28332-11-14 10:48 G 12069427.80 12069427.95 12069428.10 0.0512 0.0254

Venus 28333-06-18 00:29 G 12069643.50 12069643.52 12069643.55 0.3680 0.3537

Venus 28337-06-20 10:19 G 12071106.81 12071106.93 12071107.06 0.3691 0.0918

Moon 28337-09-08 15:21 G 12071187.02 12071187.14 12071187.25 0.2666 0.1615

Earth 28337-09-08 16:48 G 12071187.07 12071187.20 12071187.33 0.2666 0.1385 *

Mars 28338-03-09 08:24 G 12071368.70 12071368.85 12071368.99 0.1800 0.0291

Jupiter 28338-07-05 06:29 G 12071486.64 12071486.77 12071486.91 0.0514 0.0032

Mars 28338-12-31 09:36 G 12071665.78 12071665.90 12071666.03 0.1740 0.0048

Venus 28339-01-01 18:57 G 12071667.19 12071667.29 12071667.39 0.3680 0.1741

Moon 28340-03-11 20:09 G 12072102.22 12072102.34 12072102.45 0.2667 0.0204

Earth 28340-03-11 20:53 G 12072102.25 12072102.37 12072102.48 0.2666 0.0062 *

Venus 28343-01-04 09:07 G 12073130.77 12073130.88 12073131.00 0.3692 0.1660

Venus 28344-07-17 13:41 G 12073690.96 12073691.07 12073691.19 0.3679 0.0149

Jupiter 28344-09-02 08:53 G 12073737.79 12073737.87 12073737.96 0.0511 0.0449

Saturn 28344-10-09 02:24 G 12073774.57 12073774.60 12073774.65 0.0265 0.0253

Jupiter 28344-12-01 14:09 G 12073827.96 12073828.09 12073828.22 0.0514 0.0330

Saturn 28345-01-05 13:26 G 12073862.95 12073863.06 12073863.17 0.0265 0.0158

Saturn 28345-04-04 00:43 G 12073951.39 12073951.53 12073951.66 0.0265 0.0063

Saturn 28345-07-01 12:00 G 12074039.86 12074040.00 12074040.14 0.0265 0.0035

Saturn 28345-09-27 23:31 G 12074128.35 12074128.48 12074128.60 0.0265 0.0134

Saturn 28345-12-25 11:02 G 12074216.90 12074216.96 12074217.03 0.0265 0.0235

Mars 28347-07-30 10:33 G 12074798.83 12074798.94 12074799.06 0.1792 0.1099

Mars 28348-05-22 18:00 G 12075096.14 12075096.25 12075096.36 0.1748 0.0912

Venus 28350-01-31 08:38 G 12075714.76 12075714.86 12075714.96 0.3678 0.2078

Jupiter 28350-04-23 10:19 G 12075796.80 12075796.93 12075797.05 0.0515 0.0177

Jupiter 28350-07-21 17:45 G 12075886.16 12075886.24 12075886.32 0.0512 0.0413

Moon 28350-09-11 19:55 G 12075938.20 12075938.33 12075938.46 0.2669 0.1125

Earth 28350-09-11 21:07 G 12075938.24 12075938.38 12075938.51 0.2665 0.1187 *

Uranus 28351-01-13 14:53 G 12076062.07 12076062.12 12076062.19 0.0145 0.0130

Uranus 28351-04-11 19:12 G 12076150.22 12076150.30 12076150.40 0.0145 0.0108

Uranus 28351-07-08 23:45 G 12076238.38 12076238.49 12076238.60 0.0145 0.0086

Uranus 28351-10-05 04:05 G 12076326.54 12076326.67 12076326.80 0.0145 0.0063

Uranus 28352-01-01 08:24 G 12076414.72 12076414.85 12076414.99 0.0145 0.0041

Uranus 28352-03-29 12:57 G 12076502.89 12076503.04 12076503.18 0.0145 0.0019

Uranus 28352-06-25 17:17 G 12076591.08 12076591.22 12076591.36 0.0145 0.0005

Uranus 28352-09-21 21:50 G 12076679.27 12076679.41 12076679.55 0.0145 0.0028

Uranus 28352-12-19 02:09 G 12076767.46 12076767.59 12076767.73 0.0146 0.0051

Moon 28353-03-14 14:38 G 12076853.02 12076853.11 12076853.21 0.2671 0.1409

Earth 28353-03-14 15:21 G 12076853.04 12076853.14 12076853.23 0.2666 0.1426 *

Uranus 28353-03-17 06:43 G 12076855.66 12076855.78 12076855.91 0.0146 0.0074

Uranus 28353-06-13 11:17 G 12076943.87 12076943.97 12076944.08 0.0146 0.0098

Uranus 28353-09-09 15:50 G 12077032.09 12077032.16 12077032.25 0.0146 0.0122

Uranus 28353-12-06 20:38 G 12077120.36 12077120.36 12077120.37 0.0146 0.0145

Jupiter 28356-09-19 12:14 G 12078137.85 12078138.01 12078138.18 0.0513 0.0135

Saturn 28359-11-08 04:05 G 12079282.61 12079282.67 12079282.75 0.0296 0.0270

Saturn 28360-02-05 02:24 G 12079371.44 12079371.60 12079371.77 0.0296 0.0097

Earth 28360-03-07 13:12 G 12079403.02 12079403.05 12079403.08 0.2665 0.2576

Moon 28360-03-07 12:57 G 12079403.03 12079403.04 12079403.06 0.2659 0.2617 *

Saturn 28360-05-04 00:14 G 12079460.34 12079460.51 12079460.67 0.0296 0.0072

Saturn 28360-07-31 21:21 G 12079549.29 12079549.39 12079549.49 0.0296 0.0237

Jupiter 28362-02-09 13:41 G 12080106.97 12080107.07 12080107.17 0.0517 0.0332

Jupiter 28362-05-09 20:53 G 12080196.26 12080196.37 12080196.49 0.0513 0.0258

Jupiter 28368-07-08 10:33 G 12082447.77 12082447.94 12082448.11 0.0512 0.0060

Mars 28369-02-08 01:26 G 12082662.47 12082662.56 12082662.66 0.1732 0.1119

Moon 28373-03-10 06:43 G 12084153.68 12084153.78 12084153.88 0.2662 0.1274

Earth 28373-03-10 07:26 G 12084153.71 12084153.81 12084153.91 0.2666 0.1173 *

Jupiter 28373-11-28 17:45 G 12084417.19 12084417.24 12084417.28 0.0518 0.0477

Jupiter 28374-02-26 00:43 G 12084506.40 12084506.53 12084506.66 0.0514 0.0112

Saturn 28374-05-25 17:02 G 12084595.11 12084595.21 12084595.32 0.0265 0.0176

Saturn 28374-08-22 04:19 G 12084683.54 12084683.68 12084683.81 0.0265 0.0081

Saturn 28374-11-18 15:21 G 12084772.00 12084772.14 12084772.28 0.0264 0.0018

Saturn 28375-02-15 02:53 G 12084860.49 12084860.62 12084860.75 0.0264 0.0115

Saturn 28375-05-14 14:24 G 12084949.02 12084949.10 12084949.18 0.0264 0.0215

Mars 28377-09-07 08:38 G 12085795.72 12085795.86 12085796.00 0.1800 0.0447

Mars 28378-07-01 09:50 G 12086092.78 12086092.91 12086093.04 0.1740 0.0177

Jupiter 28380-04-26 08:09 G 12086757.69 12086757.84 12086757.99 0.0511 0.0262

Jupiter 28380-07-25 12:43 G 12086848.01 12086848.03 12086848.06 0.0514 0.0508

Moon 28383-09-09 21:36 G 12087989.26 12087989.40 12087989.54 0.2666 0.1059

Earth 28383-09-09 23:02 G 12087989.32 12087989.46 12087989.61 0.2666 0.0871 *

Neptune 28385-05-18 11:45 G 12088605.94 12088605.99 12088606.07 0.0089 0.0083

Neptune 28385-08-14 14:53 G 12088694.03 12088694.12 12088694.23 0.0089 0.0073

Neptune 28385-11-10 18:00 G 12088782.13 12088782.25 12088782.39 0.0089 0.0064

Jupiter 28385-12-15 04:48 G 12088816.57 12088816.70 12088816.83 0.0515 0.0032

Neptune 28386-02-06 20:53 G 12088870.24 12088870.37 12088870.53 0.0089 0.0054

Moon 28386-03-13 00:57 G 12088904.43 12088904.54 12088904.65 0.2668 0.0203

Earth 28386-03-13 01:41 G 12088904.46 12088904.57 12088904.68 0.2666 0.0266 *

Neptune 28386-05-06 00:00 G 12088958.36 12088958.50 12088958.67 0.0089 0.0044

Neptune 28386-08-02 03:21 G 12089046.47 12089046.64 12089046.80 0.0089 0.0035

Neptune 28386-10-29 06:14 G 12089134.59 12089134.76 12089134.93 0.0089 0.0025

Neptune 28387-01-25 09:21 G 12089222.71 12089222.89 12089223.06 0.0089 0.0016

Mars 28387-01-28 11:02 G 12089225.84 12089225.96 12089226.09 0.1792 0.0917

Neptune 28387-04-23 12:14 G 12089310.83 12089311.01 12089311.19 0.0089 0.0006

Neptune 28387-07-20 15:07 G 12089398.96 12089399.13 12089399.31 0.0089 0.0004

Neptune 28387-10-16 18:00 G 12089487.08 12089487.25 12089487.43 0.0089 0.0013

Mars 28387-11-21 18:00 G 12089523.14 12089523.25 12089523.36 0.1747 0.0785

Neptune 28388-01-12 21:07 G 12089575.21 12089575.38 12089575.55 0.0089 0.0022

Neptune 28388-04-09 23:45 G 12089663.33 12089663.49 12089663.67 0.0089 0.0032

Neptune 28388-07-07 02:38 G 12089751.46 12089751.61 12089751.78 0.0089 0.0042

Venus 28388-07-11 10:48 G 12089755.86 12089755.95 12089756.03 0.3691 0.2717

Neptune 28388-10-03 05:45 G 12089839.60 12089839.74 12089839.89 0.0089 0.0050

Neptune 28388-12-30 08:24 G 12089927.73 12089927.85 12089927.99 0.0089 0.0060

Neptune 28389-03-28 11:17 G 12090015.87 12090015.97 12090016.09 0.0089 0.0069

Saturn 28389-06-24 01:41 G 12090103.42 12090103.57 12090103.72 0.0296 0.0146

Neptune 28389-06-24 14:09 G 12090104.02 12090104.09 12090104.18 0.0089 0.0078

Neptune 28389-09-20 17:02 G 12090192.19 12090192.21 12090192.25 0.0089 0.0088

Saturn 28389-09-20 23:31 G 12090192.31 12090192.48 12090192.65 0.0296 0.0025

Saturn 28389-12-18 20:38 G 12090281.24 12090281.36 12090281.49 0.0296 0.0190

Venus 28390-01-22 22:48 G 12090316.38 12090316.45 12090316.51 0.3680 0.2939

Jupiter 28392-02-13 06:14 G 12091067.69 12091067.76 12091067.84 0.0511 0.0456

Jupiter 28392-05-13 11:31 G 12091157.85 12091157.98 12091158.12 0.0514 0.0322

Uranus 28392-05-14 08:09 G 12091158.78 12091158.84 12091158.91 0.0133 0.0123

Uranus 28392-08-10 13:55 G 12091246.98 12091247.08 12091247.20 0.0133 0.0101

Uranus 28392-11-06 19:41 G 12091335.19 12091335.32 12091335.47 0.0133 0.0079

Uranus 28393-02-03 01:41 G 12091423.41 12091423.57 12091423.73 0.0133 0.0057

Uranus 28393-05-02 07:12 G 12091511.64 12091511.80 12091511.97 0.0133 0.0036

Uranus 28393-07-29 12:57 G 12091599.87 12091600.04 12091600.21 0.0133 0.0014

Uranus 28393-10-25 18:29 G 12091688.10 12091688.27 12091688.45 0.0133 0.0007

Uranus 28394-01-22 00:00 G 12091776.33 12091776.50 12091776.67 0.0133 0.0028

Venus 28394-01-25 09:50 G 12091779.78 12091779.91 12091780.04 0.3691 0.0047

Uranus 28394-04-20 05:31 G 12091864.57 12091864.73 12091864.89 0.0133 0.0049

Uranus 28394-07-17 10:48 G 12091952.81 12091952.95 12091953.10 0.0133 0.0070

Uranus 28394-10-13 16:19 G 12092041.06 12092041.18 12092041.31 0.0133 0.0090

Uranus 28395-01-09 21:21 G 12092129.31 12092129.39 12092129.50 0.0133 0.0111

Uranus 28395-04-08 02:38 G 12092217.60 12092217.61 12092217.65 0.0133 0.0131

Venus 28395-08-08 17:17 G 12092340.11 12092340.22 12092340.33 0.3680 0.1113

Moon 28396-09-12 02:24 G 12092740.49 12092740.60 12092740.72 0.2671 0.1549

Earth 28396-09-12 03:21 G 12092740.53 12092740.64 12092740.75 0.2665 0.1698 *

Mars 28397-04-13 02:24 G 12092953.59 12092953.60 12092953.61 0.1755 0.1742

Jupiter 28397-10-03 08:38 G 12093126.74 12093126.86 12093126.99 0.0515 0.0177

Jupiter 28397-12-31 16:05 G 12093216.10 12093216.17 12093216.25 0.0512 0.0414

Moon 28399-03-15 19:41 G 12093655.24 12093655.32 12093655.41 0.2671 0.1620

Earth 28399-03-15 20:09 G 12093655.25 12093655.34 12093655.43 0.2666 0.1728 *

Venus 28399-08-11 08:24 G 12093803.76 12093803.85 12093803.94 0.3692 0.2477

Venus 28401-02-21 12:00 G 12094363.89 12094364.00 12094364.11 0.3679 0.0789

Saturn 28403-10-12 18:57 G 12095327.22 12095327.29 12095327.38 0.0265 0.0209

Saturn 28404-01-09 06:14 G 12095415.63 12095415.76 12095415.88 0.0265 0.0113

Jupiter 28404-03-01 10:05 G 12095467.76 12095467.92 12095468.09 0.0513 0.0133

Saturn 28404-04-06 17:17 G 12095504.08 12095504.22 12095504.36 0.0265 0.0018

Saturn 28404-07-04 04:48 G 12095592.56 12095592.70 12095592.83 0.0265 0.0082

Saturn 28404-09-30 16:05 G 12095681.07 12095681.17 12095681.28 0.0265 0.0182

Moon 28406-03-08 17:45 G 12096205.18 12096205.24 12096205.30 0.2659 0.2283

Earth 28406-03-08 18:00 G 12096205.20 12096205.25 12096205.31 0.2666 0.2287 *

Venus 28406-09-07 06:57 G 12096387.72 12096387.79 12096387.87 0.3678 0.2761

Mars 28408-08-09 01:41 G 12097089.48 12097089.57 12097089.66 0.1732 0.1254

Jupiter 28409-07-22 12:29 G 12097436.92 12097437.02 12097437.13 0.0516 0.0323

Jupiter 28409-10-19 19:41 G 12097526.21 12097526.32 12097526.44 0.0513 0.0266

Jupiter 28415-12-19 08:24 G 12099777.68 12099777.85 12099778.02 0.0512 0.0061

Mars 28417-03-08 09:07 G 12100222.74 12100222.88 12100223.02 0.1801 0.0631

Mars 28417-12-30 09:50 G 12100519.78 12100519.91 12100520.03 0.1739 0.0295

Saturn 28418-11-11 01:55 G 12100835.45 12100835.58 12100835.71 0.0296 0.0187

Pluto 28418-12-06 06:43 G 12100860.74 12100860.78 12100860.84 0.0070 0.0064

Saturn 28419-02-07 23:45 G 12100924.32 12100924.49 12100924.67 0.0296 0.0018

Pluto 28419-03-04 07:26 G 12100948.73 12100948.81 12100948.90 0.0070 0.0054

Moon 28419-03-11 11:31 G 12100955.88 12100955.98 12100956.09 0.2663 0.0978

Earth 28419-03-11 12:14 G 12100955.91 12100956.01 12100956.12 0.2666 0.0874 *

Saturn 28419-05-07 21:21 G 12101013.24 12101013.39 12101013.53 0.0296 0.0152

Pluto 28419-05-31 07:55 G 12101036.74 12101036.83 12101036.94 0.0070 0.0045

Pluto 28419-08-27 08:24 G 12101124.75 12101124.85 12101124.97 0.0070 0.0035

Pluto 28419-11-23 09:07 G 12101212.76 12101212.88 12101213.01 0.0070 0.0025

Pluto 28420-02-19 09:50 G 12101300.78 12101300.91 12101301.04 0.0070 0.0015

Pluto 28420-05-17 10:19 G 12101388.80 12101388.93 12101389.06 0.0070 0.0006

Pluto 28420-08-13 11:02 G 12101476.83 12101476.96 12101477.09 0.0070 0.0005

Pluto 28420-11-09 11:31 G 12101564.85 12101564.98 12101565.11 0.0070 0.0014

Pluto 28421-02-05 12:00 G 12101652.89 12101653.00 12101653.13 0.0071 0.0025

Pluto 28421-05-04 12:29 G 12101740.92 12101741.02 12101741.15 0.0071 0.0035

Jupiter 28421-05-10 15:50 G 12101747.12 12101747.16 12101747.21 0.0517 0.0480

Pluto 28421-07-31 13:12 G 12101828.96 12101829.05 12101829.16 0.0071 0.0045

Jupiter 28421-08-07 23:02 G 12101836.33 12101836.46 12101836.59 0.0514 0.0108

Pluto 28421-10-27 13:41 G 12101917.00 12101917.07 12101917.16 0.0071 0.0055

Pluto 28422-01-23 14:24 G 12102005.06 12102005.10 12102005.16 0.0071 0.0065

Mars 28426-07-29 11:31 G 12103652.84 12103652.98 12103653.11 0.1792 0.0751

Mars 28427-05-22 18:14 G 12103950.14 12103950.26 12103950.37 0.1747 0.0657

Jupiter 28427-10-07 06:43 G 12104087.63 12104087.78 12104087.93 0.0511 0.0255

Moon 28429-09-10 03:50 G 12104791.52 12104791.66 12104791.81 0.2667 0.0527

Earth 28429-09-10 05:17 G 12104791.58 12104791.72 12104791.87 0.2666 0.0367 *

Moon 28432-03-13 06:00 G 12105706.63 12105706.75 12105706.86 0.2668 0.0436

Earth 28432-03-13 06:43 G 12105706.67 12105706.78 12105706.89 0.2666 0.0571 *

Saturn 28433-02-28 22:48 G 12106059.38 12106059.45 12106059.52 0.0265 0.0226

Jupiter 28433-05-27 02:53 G 12106146.49 12106146.62 12106146.75 0.0515 0.0039

Saturn 28433-05-28 09:36 G 12106147.78 12106147.90 12106148.02 0.0264 0.0131

Saturn 28433-08-24 20:53 G 12106236.23 12106236.37 12106236.51 0.0264 0.0036

Saturn 28433-11-21 08:09 G 12106324.70 12106324.84 12106324.97 0.0264 0.0063

Saturn 28434-02-17 19:26 G 12106413.20 12106413.31 12106413.43 0.0264 0.0161

Saturn 28434-05-17 07:12 G 12106501.78 12106501.80 12106501.82 0.0264 0.0261

Uranus 28435-02-02 22:19 G 12106763.37 12106763.43 12106763.51 0.0145 0.0124

Uranus 28435-05-02 02:38 G 12106851.52 12106851.61 12106851.72 0.0145 0.0102

Uranus 28435-07-29 07:12 G 12106939.68 12106939.80 12106939.91 0.0145 0.0080

Uranus 28435-10-25 11:17 G 12107027.85 12107027.97 12107028.11 0.0145 0.0058

Uranus 28436-01-21 15:50 G 12107116.02 12107116.16 12107116.30 0.0145 0.0035

Uranus 28436-04-18 20:09 G 12107204.20 12107204.34 12107204.48 0.0145 0.0012

Uranus 28436-07-16 00:43 G 12107292.38 12107292.53 12107292.67 0.0145 0.0011

Mars 28436-10-12 02:24 G 12107380.56 12107380.60 12107380.65 0.1755 0.1607

Uranus 28436-10-12 05:02 G 12107380.57 12107380.71 12107380.85 0.0145 0.0034 *

Uranus 28437-01-08 09:36 G 12107468.77 12107468.90 12107469.03 0.0146 0.0057

Uranus 28437-04-06 14:09 G 12107556.97 12107557.09 12107557.21 0.0146 0.0080

Uranus 28437-07-03 18:43 G 12107645.18 12107645.28 12107645.38 0.0146 0.0104

Uranus 28437-09-29 23:17 G 12107733.41 12107733.47 12107733.54 0.0146 0.0128

Jupiter 28439-07-26 04:05 G 12108397.60 12108397.67 12108397.75 0.0510 0.0458

Jupiter 28439-10-24 09:07 G 12108487.75 12108487.88 12108488.02 0.0513 0.0318

Moon 28442-09-13 08:53 G 12109542.78 12109542.87 12109542.95 0.2672 0.2130

Earth 28442-09-13 09:36 G 12109542.82 12109542.90 12109542.98 0.2665 0.2192 *

Venus 28445-02-15 10:19 G 12110428.81 12110428.93 12110429.04 0.3691 0.1815

Jupiter 28445-03-15 06:57 G 12110456.67 12110456.79 12110456.91 0.0516 0.0180

Moon 28445-03-16 00:43 G 12110457.46 12110457.53 12110457.61 0.2673 0.2053

Earth 28445-03-16 00:57 G 12110457.47 12110457.54 12110457.62 0.2666 0.2031 *

Jupiter 28445-06-12 14:24 G 12110546.02 12110546.10 12110546.18 0.0513 0.0413

Venus 28446-08-29 20:53 G 12110989.29 12110989.37 12110989.46 0.3680 0.2321

Mars 28448-02-08 01:55 G 12111516.50 12111516.58 12111516.65 0.1732 0.1388

Saturn 28448-03-30 00:43 G 12111567.43 12111567.53 12111567.63 0.0296 0.0239

Saturn 28448-06-26 22:48 G 12111656.28 12111656.45 12111656.62 0.0296 0.0067

Saturn 28448-09-23 20:24 G 12111745.19 12111745.35 12111745.51 0.0296 0.0102

Saturn 28448-12-21 17:31 G 12111834.16 12111834.23 12111834.30 0.0296 0.0266

Venus 28450-09-01 09:07 G 12112452.76 12112452.88 12112453.01 0.3691 0.0816

Jupiter 28451-08-12 07:55 G 12112797.66 12112797.83 12112797.99 0.0513 0.0129

Moon 28452-03-08 22:33 G 12113007.37 12113007.44 12113007.51 0.2659 0.2079

Earth 28452-03-08 23:02 G 12113007.38 12113007.46 12113007.53 0.2665 0.1994 *

Venus 28452-03-14 15:36 G 12113013.03 12113013.15 12113013.26 0.3679 0.0467

Venus 28456-03-17 07:41 G 12114476.77 12114476.82 12114476.87 0.3692 0.3307

Mars 28456-09-06 09:36 G 12114649.77 12114649.90 12114650.03 0.1801 0.0810

Jupiter 28457-01-01 11:02 G 12114766.86 12114766.96 12114767.06 0.0516 0.0321

Jupiter 28457-03-31 18:14 G 12114856.15 12114856.26 12114856.38 0.0513 0.0268

Mars 28457-06-30 10:05 G 12114946.79 12114946.92 12114947.04 0.1739 0.0435

Venus 28457-09-28 10:19 G 12115036.83 12115036.93 12115037.04 0.3679 0.1459

Saturn 28462-07-19 00:29 G 12116791.50 12116791.52 12116791.55 0.0265 0.0259

Moon 28462-09-08 05:31 G 12116842.69 12116842.73 12116842.76 0.2664 0.2582

Earth 28462-09-08 06:57 G 12116842.74 12116842.79 12116842.85 0.2666 0.2486 *

Saturn 28462-10-15 11:31 G 12116879.87 12116879.98 12116880.09 0.0265 0.0165

Saturn 28463-01-11 22:33 G 12116968.31 12116968.44 12116968.58 0.0265 0.0069

Saturn 28463-04-10 09:50 G 12117056.77 12117056.91 12117057.05 0.0265 0.0028

Venus 28463-04-14 05:31 G 12117060.69 12117060.73 12117060.77 0.3678 0.3457

Jupiter 28463-05-31 06:14 G 12117107.59 12117107.76 12117107.93 0.0512 0.0062

Saturn 28463-07-07 21:07 G 12117145.26 12117145.38 12117145.51 0.0265 0.0127

Saturn 28463-10-04 08:38 G 12117233.79 12117233.86 12117233.94 0.0265 0.0227

Moon 28465-03-11 16:19 G 12117758.07 12117758.18 12117758.29 0.2665 0.0658

Earth 28465-03-11 17:17 G 12117758.11 12117758.22 12117758.33 0.2666 0.0587 *

Neptune 28465-11-30 18:29 G 12118022.25 12118022.27 12118022.30 0.0088 0.0087

Mars 28466-01-27 12:00 G 12118079.86 12118080.00 12118080.14 0.1792 0.0576

Neptune 28466-02-26 19:55 G 12118110.28 12118110.33 12118110.40 0.0088 0.0080

Neptune 28466-05-25 21:21 G 12118198.32 12118198.39 12118198.48 0.0088 0.0073

Neptune 28466-08-21 23:02 G 12118286.37 12118286.46 12118286.55 0.0088 0.0065

Neptune 28466-11-18 00:29 G 12118374.42 12118374.52 12118374.63 0.0088 0.0058

Mars 28466-11-20 18:14 G 12118377.14 12118377.26 12118377.38 0.1747 0.0526

Neptune 28467-02-14 01:55 G 12118462.47 12118462.58 12118462.70 0.0088 0.0051

Neptune 28467-05-13 03:21 G 12118550.53 12118550.64 12118550.77 0.0088 0.0044

Neptune 28467-08-09 05:02 G 12118638.59 12118638.71 12118638.84 0.0088 0.0037

Neptune 28467-11-05 06:43 G 12118726.65 12118726.78 12118726.91 0.0088 0.0030

Neptune 28468-02-01 08:09 G 12118814.70 12118814.84 12118814.98 0.0088 0.0022

Neptune 28468-04-29 09:36 G 12118902.77 12118902.90 12118903.04 0.0088 0.0015

Neptune 28468-07-26 11:17 G 12118990.83 12118990.97 12118991.11 0.0088 0.0008

Jupiter 28468-10-20 14:53 G 12119077.07 12119077.12 12119077.18 0.0517 0.0467

Neptune 28468-10-22 12:43 G 12119078.89 12119079.03 12119079.18 0.0088 0.0002

Jupiter 28469-01-17 22:05 G 12119166.29 12119166.42 12119166.55 0.0514 0.0120

Neptune 28469-01-18 14:24 G 12119166.96 12119167.10 12119167.24 0.0088 0.0007

Neptune 28469-04-16 15:50 G 12119255.02 12119255.16 12119255.30 0.0088 0.0014

Neptune 28469-07-13 17:31 G 12119343.09 12119343.23 12119343.37 0.0088 0.0021

Neptune 28469-10-09 18:57 G 12119431.16 12119431.29 12119431.43 0.0088 0.0029

Neptune 28470-01-05 20:24 G 12119519.23 12119519.35 12119519.49 0.0088 0.0037

Neptune 28470-04-03 22:05 G 12119607.30 12119607.42 12119607.55 0.0088 0.0044

Neptune 28470-06-30 23:31 G 12119695.38 12119695.48 12119695.61 0.0088 0.0051

Neptune 28470-09-27 01:12 G 12119783.45 12119783.55 12119783.66 0.0088 0.0058

Neptune 28470-12-24 02:38 G 12119871.53 12119871.61 12119871.72 0.0088 0.0066

Neptune 28471-03-22 04:19 G 12119959.62 12119959.68 12119959.77 0.0088 0.0073

Neptune 28471-06-18 06:14 G 12120047.70 12120047.76 12120047.82 0.0088 0.0081

Neptune 28471-09-14 07:55 G 12120135.83 12120135.83 12120135.83 0.0088 0.0088

Jupiter 28475-03-19 04:33 G 12121417.54 12121417.69 12121417.85 0.0511 0.0253

Moon 28475-09-11 10:19 G 12121593.78 12121593.93 12121594.08 0.2669 0.0086

Earth 28475-09-11 11:45 G 12121593.84 12121593.99 12121594.14 0.2666 0.0168 *

Mars 28476-04-12 02:24 G 12121807.54 12121807.60 12121807.66 0.1755 0.1491

Uranus 28476-06-03 16:19 G 12121860.11 12121860.18 12121860.29 0.0133 0.0114

Uranus 28476-08-30 22:19 G 12121948.31 12121948.43 12121948.57 0.0133 0.0091

Uranus 28476-11-27 04:05 G 12122036.53 12122036.67 12122036.83 0.0133 0.0069

Uranus 28477-02-23 09:50 G 12122124.75 12122124.91 12122125.08 0.0133 0.0048

Uranus 28477-05-22 15:36 G 12122212.98 12122213.15 12122213.32 0.0133 0.0026

Saturn 28477-08-16 23:45 G 12122299.46 12122299.49 12122299.53 0.0296 0.0288

Uranus 28477-08-18 21:07 G 12122301.21 12122301.38 12122301.56 0.0133 0.0006

Saturn 28477-11-13 22:05 G 12122388.27 12122388.42 12122388.58 0.0296 0.0114

Uranus 28477-11-15 02:38 G 12122389.45 12122389.61 12122389.79 0.0133 0.0017

Saturn 28478-02-10 19:55 G 12122477.17 12122477.33 12122477.50 0.0296 0.0057

Uranus 28478-02-11 08:09 G 12122477.68 12122477.84 12122478.01 0.0133 0.0038

Moon 28478-03-14 10:48 G 12122508.84 12122508.95 12122509.06 0.2668 0.0792

Earth 28478-03-14 11:31 G 12122508.87 12122508.98 12122509.09 0.2666 0.0866 *

Uranus 28478-05-10 13:41 G 12122565.92 12122566.07 12122566.23 0.0133 0.0058

Saturn 28478-05-10 17:17 G 12122566.11 12122566.22 12122566.33 0.0296 0.0223 *

Uranus 28478-08-06 18:57 G 12122654.16 12122654.29 12122654.44 0.0133 0.0079

Uranus 28478-11-03 00:14 G 12122742.41 12122742.51 12122742.64 0.0133 0.0100

Uranus 28479-01-30 05:45 G 12122830.68 12122830.74 12122830.82 0.0133 0.0120

Jupiter 28480-11-06 01:12 G 12123476.42 12123476.55 12123476.68 0.0515 0.0039

Jupiter 28487-01-05 02:53 G 12125727.54 12125727.62 12125727.70 0.0510 0.0446

Jupiter 28487-04-05 07:55 G 12125817.71 12125817.83 12125817.96 0.0513 0.0330

Mars 28487-08-09 01:55 G 12125943.52 12125943.58 12125943.64 0.1732 0.1517

Moon 28488-09-13 15:07 G 12126345.10 12126345.13 12126345.16 0.2671 0.2602

Moon 28491-03-17 05:45 G 12127259.69 12127259.74 12127259.80 0.2673 0.2283

Earth 28491-03-17 06:00 G 12127259.70 12127259.75 12127259.80 0.2666 0.2337 *

Saturn 28492-03-03 14:38 G 12127612.02 12127612.11 12127612.22 0.0264 0.0185

Saturn 28492-05-31 01:55 G 12127700.45 12127700.58 12127700.71 0.0264 0.0089

Jupiter 28492-08-25 05:02 G 12127786.59 12127786.71 12127786.84 0.0516 0.0185

Saturn 28492-08-27 12:57 G 12127788.90 12127789.04 12127789.18 0.0264 0.0010

Jupiter 28492-11-22 12:29 G 12127875.95 12127876.02 12127876.11 0.0513 0.0409

Saturn 28492-11-24 00:14 G 12127877.39 12127877.51 12127877.65 0.0264 0.0106

Saturn 28493-02-20 11:45 G 12127965.91 12127965.99 12127966.09 0.0264 0.0205

Mars 28496-03-07 09:50 G 12129076.79 12129076.91 12129077.03 0.1801 0.0962

Venus 28496-03-08 10:19 G 12129077.92 12129077.93 12129077.95 0.3690 0.3658

Mars 28496-12-29 10:05 G 12129373.80 12129373.92 12129374.04 0.1739 0.0567

Venus 28497-09-20 00:43 G 12129638.50 12129638.53 12129638.56 0.3680 0.3500

Moon 28498-03-10 03:21 G 12129809.55 12129809.64 12129809.73 0.2660 0.1700

Earth 28498-03-10 03:50 G 12129809.57 12129809.66 12129809.75 0.2665 0.1699 *

Jupiter 28499-01-22 06:00 G 12130127.58 12130127.75 12130127.92 0.0512 0.0132

Venus 28501-09-23 09:50 G 12131101.78 12131101.91 12131102.03 0.3691 0.0925

Venus 28503-04-06 19:12 G 12131662.20 12131662.30 12131662.40 0.3680 0.1692

Jupiter 28504-06-14 09:21 G 12132096.79 12132096.89 12132096.99 0.0517 0.0324

Jupiter 28504-09-11 16:33 G 12132186.08 12132186.19 12132186.31 0.0514 0.0267

Pluto 28505-01-14 13:26 G 12132310.95 12132311.06 12132311.18 0.0074 0.0060

Pluto 28505-04-12 15:50 G 12132399.01 12132399.16 12132399.34 0.0074 0.0043

Pluto 28505-07-09 18:43 G 12132487.09 12132487.28 12132487.47 0.0074 0.0025

Mars 28505-07-29 12:14 G 12132506.87 12132507.01 12132507.16 0.1793 0.0405

Pluto 28505-10-05 21:21 G 12132575.19 12132575.39 12132575.59 0.0074 0.0008

Pluto 28506-01-01 23:45 G 12132663.30 12132663.49 12132663.69 0.0074 0.0010

Pluto 28506-03-31 02:24 G 12132751.42 12132751.60 12132751.79 0.0073 0.0027

Mars 28506-05-22 18:14 G 12132804.14 12132804.26 12132804.39 0.1747 0.0399

Pluto 28506-06-27 04:33 G 12132839.55 12132839.69 12132839.87 0.0073 0.0045

Pluto 28506-09-23 06:57 G 12132927.71 12132927.79 12132927.92 0.0073 0.0062

Saturn 28507-04-03 20:53 G 12133120.23 12133120.37 12133120.52 0.0296 0.0166

Venus 28507-04-09 08:38 G 12133125.74 12133125.86 12133125.97 0.3692 0.1672

Saturn 28507-07-01 18:57 G 12133209.12 12133209.29 12133209.46 0.0296 0.0006

Saturn 28507-09-28 16:19 G 12133298.05 12133298.18 12133298.32 0.0296 0.0173

Moon 28508-09-09 12:00 G 12133644.92 12133645.00 12133645.08 0.2664 0.2250

Earth 28508-09-09 13:26 G 12133644.96 12133645.06 12133645.16 0.2666 0.1953 *

Venus 28508-10-20 13:55 G 12133685.96 12133686.08 12133686.19 0.3679 0.0194

Jupiter 28510-11-11 04:19 G 12134437.51 12134437.68 12134437.86 0.0512 0.0060

Moon 28511-03-13 21:21 G 12134560.28 12134560.39 12134560.50 0.2665 0.0434

Earth 28511-03-13 22:05 G 12134560.31 12134560.42 12134560.53 0.2666 0.0279 *

Venus 28514-05-06 08:53 G 12135709.77 12135709.87 12135709.96 0.3679 0.2137

Mars 28514-12-19 14:38 G 12135937.10 12135937.11 12135937.12 0.1784 0.1772

Mars 28515-10-13 02:38 G 12136234.53 12136234.61 12136234.68 0.1755 0.1358

Jupiter 28516-04-02 13:26 G 12136407.01 12136407.06 12136407.12 0.0517 0.0464

Jupiter 28516-06-30 20:38 G 12136496.23 12136496.36 12136496.49 0.0514 0.0125

Uranus 28518-11-28 01:41 G 12137376.54 12137376.57 12137376.61 0.0145 0.0139

Uranus 28519-02-24 06:00 G 12137464.67 12137464.75 12137464.83 0.0145 0.0117

Uranus 28519-05-23 10:19 G 12137552.83 12137552.93 12137553.04 0.0145 0.0095

Uranus 28519-08-19 14:24 G 12137640.99 12137641.10 12137641.23 0.0145 0.0074

Uranus 28519-11-15 18:57 G 12137729.16 12137729.29 12137729.42 0.0145 0.0051

Uranus 28520-02-11 23:17 G 12137817.33 12137817.47 12137817.61 0.0145 0.0028

Uranus 28520-05-10 03:36 G 12137905.51 12137905.65 12137905.80 0.0145 0.0007

Uranus 28520-08-06 08:09 G 12137993.70 12137993.84 12137993.98 0.0145 0.0018

Uranus 28520-11-02 12:43 G 12138081.89 12138082.03 12138082.16 0.0146 0.0041

Uranus 28521-01-29 17:02 G 12138170.09 12138170.21 12138170.34 0.0146 0.0064

Uranus 28521-04-27 21:36 G 12138258.29 12138258.40 12138258.52 0.0146 0.0087

Saturn 28521-07-22 16:33 G 12138344.11 12138344.19 12138344.27 0.0265 0.0219

Uranus 28521-07-25 02:09 G 12138346.50 12138346.59 12138346.69 0.0146 0.0111

Moon 28521-09-12 16:48 G 12138396.05 12138396.20 12138396.34 0.2670 0.0600

Earth 28521-09-12 18:00 G 12138396.10 12138396.25 12138396.39 0.2666 0.0660 *

Saturn 28521-10-19 03:21 G 12138432.52 12138432.64 12138432.77 0.0265 0.0124

Uranus 28521-10-21 06:43 G 12138434.73 12138434.78 12138434.84 0.0146 0.0135

Saturn 28522-01-15 14:38 G 12138520.97 12138521.11 12138521.25 0.0264 0.0028

Saturn 28522-04-14 01:55 G 12138609.44 12138609.58 12138609.71 0.0264 0.0070

Saturn 28522-07-11 13:12 G 12138697.94 12138698.05 12138698.16 0.0264 0.0168

Jupiter 28522-08-30 02:53 G 12138747.46 12138747.62 12138747.77 0.0511 0.0251

Moon 28524-03-15 15:50 G 12139311.06 12139311.16 12139311.26 0.2670 0.1104

Earth 28524-03-15 16:19 G 12139311.08 12139311.18 12139311.29 0.2666 0.1171 *

Mars 28527-02-08 01:55 G 12140370.55 12140370.58 12140370.62 0.1731 0.1651

Jupiter 28528-04-19 00:29 G 12140806.39 12140806.52 12140806.66 0.0515 0.0026

Jupiter 28534-06-18 01:12 G 12143057.47 12143057.55 12143057.64 0.0510 0.0440

Jupiter 28534-09-16 06:29 G 12143147.64 12143147.77 12143147.90 0.0513 0.0337

Mars 28535-09-07 10:19 G 12143503.82 12143503.93 12143504.05 0.1801 0.1151

Mars 28536-06-30 10:05 G 12143800.81 12143800.92 12143801.04 0.1739 0.0693

Saturn 28536-08-20 18:57 G 12143852.18 12143852.29 12143852.41 0.0296 0.0223

Saturn 28536-11-17 17:17 G 12143941.05 12143941.22 12143941.39 0.0296 0.0050

Saturn 28537-02-14 14:53 G 12144029.97 12144030.12 12144030.28 0.0297 0.0120

Moon 28537-03-18 10:48 G 12144061.94 12144061.95 12144061.96 0.2673 0.2658

Earth 28537-03-18 10:48 G 12144061.94 12144061.95 12144061.97 0.2666 0.2642 *

Saturn 28537-05-14 11:45 G 12144118.96 12144118.99 12144119.05 0.0297 0.0286

Jupiter 28540-02-06 03:50 G 12145116.53 12145116.66 12145116.78 0.0516 0.0181

Jupiter 28540-05-05 11:17 G 12145205.89 12145205.97 12145206.05 0.0513 0.0412

Moon 28544-03-11 08:09 G 12146611.75 12146611.84 12146611.93 0.2662 0.1544

Earth 28544-03-11 08:38 G 12146611.77 12146611.86 12146611.96 0.2665 0.1406 *

Mars 28545-01-27 12:43 G 12146933.88 12146934.03 12146934.18 0.1792 0.0229

Mars 28545-11-20 18:29 G 12147231.14 12147231.27 12147231.39 0.1747 0.0272

Jupiter 28546-07-05 05:02 G 12147457.55 12147457.71 12147457.88 0.0512 0.0150

Neptune 28550-02-13 08:53 G 12148776.83 12148776.87 12148776.95 0.0089 0.0083

Neptune 28550-05-12 12:00 G 12148864.92 12148865.00 12148865.12 0.0089 0.0073

Neptune 28550-08-08 15:21 G 12148953.02 12148953.14 12148953.27 0.0089 0.0063

Neptune 28550-11-04 18:14 G 12149041.13 12149041.26 12149041.42 0.0089 0.0054

Saturn 28550-12-09 19:41 G 12149076.27 12149076.32 12149076.38 0.0264 0.0239

Neptune 28551-01-31 21:21 G 12149129.24 12149129.39 12149129.55 0.0089 0.0044

Saturn 28551-03-08 06:43 G 12149164.66 12149164.78 12149164.89 0.0264 0.0145

Neptune 28551-04-30 00:29 G 12149217.36 12149217.52 12149217.69 0.0089 0.0034

Saturn 28551-06-04 17:45 G 12149253.10 12149253.24 12149253.38 0.0264 0.0049

Neptune 28551-07-27 03:21 G 12149305.48 12149305.64 12149305.82 0.0089 0.0025

Saturn 28551-09-01 05:02 G 12149341.57 12149341.71 12149341.84 0.0264 0.0048

Neptune 28551-10-23 06:29 G 12149393.60 12149393.77 12149393.95 0.0089 0.0015

Jupiter 28551-11-25 07:41 G 12149426.72 12149426.82 12149426.92 0.0517 0.0326

Saturn 28551-11-28 16:19 G 12149430.06 12149430.18 12149430.30 0.0264 0.0146

Neptune 28552-01-19 09:36 G 12149481.72 12149481.90 12149482.08 0.0089 0.0006

Jupiter 28552-02-22 14:53 G 12149516.01 12149516.12 12149516.24 0.0514 0.0266

Saturn 28552-02-25 03:50 G 12149518.61 12149518.66 12149518.71 0.0264 0.0246

Neptune 28552-04-16 12:29 G 12149569.84 12149570.02 12149570.20 0.0089 0.0004

Neptune 28552-07-13 15:21 G 12149657.97 12149658.14 12149658.32 0.0089 0.0013

Neptune 28552-10-09 18:14 G 12149746.09 12149746.26 12149746.44 0.0089 0.0023

Venus 28552-10-14 10:05 G 12149750.83 12149750.92 12149751.00 0.3691 0.2734

Neptune 28553-01-05 21:07 G 12149834.22 12149834.38 12149834.55 0.0089 0.0032

Neptune 28553-04-04 00:14 G 12149922.35 12149922.51 12149922.67 0.0089 0.0041

Neptune 28553-07-01 02:53 G 12150010.49 12150010.62 12150010.78 0.0089 0.0051

Neptune 28553-09-27 05:45 G 12150098.62 12150098.74 12150098.88 0.0089 0.0060

Neptune 28553-12-24 08:38 G 12150186.76 12150186.86 12150186.98 0.0089 0.0069

Neptune 28554-03-22 11:31 G 12150274.91 12150274.98 12150275.07 0.0089 0.0079

Venus 28554-04-27 23:02 G 12150311.39 12150311.46 12150311.53 0.3680 0.2888

Neptune 28554-06-18 14:38 G 12150363.08 12150363.11 12150363.14 0.0089 0.0088

Mars 28554-06-19 14:53 G 12150364.06 12150364.12 12150364.18 0.1784 0.1613

Moon 28554-09-10 18:14 G 12150447.14 12150447.26 12150447.38 0.2666 0.1532

Earth 28554-09-10 19:41 G 12150447.20 12150447.32 12150447.45 0.2666 0.1439 *

Mars 28555-04-13 02:38 G 12150661.52 12150661.61 12150661.70 0.1755 0.1225

Moon 28557-03-14 02:09 G 12151362.48 12151362.59 12151362.70 0.2665 0.0052

Earth 28557-03-14 02:53 G 12151362.51 12151362.62 12151362.74 0.2666 0.0091 *

Jupiter 28558-04-23 02:53 G 12151767.45 12151767.62 12151767.80 0.0512 0.0051

Venus 28558-04-30 09:07 G 12151774.75 12151774.88 12151775.01 0.3691 0.0099

Venus 28559-11-11 17:31 G 12152335.12 12152335.23 12152335.34 0.3680 0.1053

Uranus 28560-03-28 18:57 G 12152473.24 12152473.29 12152473.35 0.0133 0.0125

Uranus 28560-06-25 00:43 G 12152561.43 12152561.53 12152561.65 0.0133 0.0104

Uranus 28560-09-21 06:43 G 12152649.64 12152649.78 12152649.92 0.0133 0.0081

Uranus 28560-12-18 12:29 G 12152737.87 12152738.02 12152738.18 0.0133 0.0060

Uranus 28561-03-16 18:00 G 12152826.09 12152826.25 12152826.43 0.0133 0.0039

Uranus 28561-06-12 23:45 G 12152914.32 12152914.49 12152914.67 0.0133 0.0017

Uranus 28561-09-09 05:31 G 12153002.55 12153002.73 12153002.90 0.0133 0.0005

Uranus 28561-12-06 11:02 G 12153090.79 12153090.96 12153091.13 0.0133 0.0026

Uranus 28562-03-04 16:19 G 12153179.03 12153179.18 12153179.35 0.0133 0.0047

Uranus 28562-05-31 21:50 G 12153267.27 12153267.41 12153267.56 0.0133 0.0068

Uranus 28562-08-28 03:21 G 12153355.52 12153355.64 12153355.77 0.0133 0.0088

Uranus 28562-11-24 08:24 G 12153443.77 12153443.85 12153443.96 0.0133 0.0109

Uranus 28563-02-20 13:55 G 12153532.05 12153532.08 12153532.13 0.0133 0.0129

Jupiter 28563-09-13 12:00 G 12153736.94 12153737.00 12153737.05 0.0518 0.0465

Venus 28563-11-14 07:55 G 12153798.74 12153798.83 12153798.92 0.3692 0.2518

Jupiter 28563-12-11 18:57 G 12153826.17 12153826.29 12153826.43 0.0515 0.0126

Venus 28565-05-27 12:14 G 12154358.90 12154359.01 12154359.12 0.3679 0.0848

Saturn 28566-01-07 17:31 G 12154584.17 12154584.23 12154584.29 0.0296 0.0277

Saturn 28566-04-06 15:50 G 12154673.00 12154673.16 12154673.32 0.0296 0.0103

Saturn 28566-07-04 13:41 G 12154761.91 12154762.07 12154762.24 0.0296 0.0068

Saturn 28566-10-01 10:48 G 12154850.86 12154850.95 12154851.06 0.0297 0.0235

Moon 28567-09-13 23:02 G 12155198.33 12155198.46 12155198.60 0.2671 0.0933

Earth 28567-09-14 00:14 G 12155198.38 12155198.51 12155198.64 0.2666 0.1168 *

Jupiter 28570-02-09 01:12 G 12156077.40 12156077.55 12156077.71 0.0511 0.0242

Moon 28570-03-16 20:53 G 12156113.27 12156113.37 12156113.47 0.2671 0.1376

Earth 28570-03-16 21:21 G 12156113.30 12156113.39 12156113.48 0.2666 0.1471 *

Venus 28570-12-11 07:12 G 12156382.73 12156382.80 12156382.87 0.3679 0.2820

Mars 28575-03-08 10:48 G 12157930.85 12157930.95 12157931.05 0.1801 0.1324

Jupiter 28575-09-29 23:17 G 12158136.34 12158136.47 12158136.60 0.0515 0.0016

Mars 28575-12-30 10:05 G 12158227.81 12158227.92 12158228.04 0.1739 0.0824

Moon 28577-03-09 19:12 G 12158663.28 12158663.30 12158663.33 0.2658 0.2567

Earth 28577-03-09 19:26 G 12158663.28 12158663.31 12158663.34 0.2665 0.2512 *

Saturn 28580-07-25 07:55 G 12159896.74 12159896.83 12159896.94 0.0264 0.0182

Saturn 28580-10-21 19:12 G 12159985.16 12159985.30 12159985.43 0.0264 0.0086

Saturn 28581-01-18 06:14 G 12160073.62 12160073.76 12160073.90 0.0264 0.0010

Saturn 28581-04-16 17:31 G 12160162.10 12160162.23 12160162.36 0.0264 0.0108

Saturn 28581-07-14 05:02 G 12160250.62 12160250.71 12160250.79 0.0264 0.0207

Jupiter 28581-11-27 23:31 G 12160387.39 12160387.48 12160387.57 0.0510 0.0434

Jupiter 28582-02-26 04:48 G 12160477.58 12160477.70 12160477.83 0.0514 0.0344

Mars 28584-07-28 13:12 G 12161360.90 12161361.05 12161361.20 0.1793 0.0060

Mars 28585-05-21 18:29 G 12161658.14 12161658.27 12161658.40 0.1747 0.0135

Jupiter 28587-07-19 03:21 G 12162446.51 12162446.64 12162446.76 0.0516 0.0160

Jupiter 28587-10-16 10:48 G 12162535.88 12162535.95 12162536.02 0.0513 0.0433

Moon 28590-03-12 12:57 G 12163413.94 12163414.04 12163414.14 0.2662 0.1144

Earth 28590-03-12 13:41 G 12163413.97 12163414.07 12163414.17 0.2665 0.1111 *

Jupiter 28593-12-15 03:50 G 12164787.50 12164787.66 12164787.82 0.0513 0.0160

Mars 28593-12-18 15:36 G 12164791.06 12164791.15 12164791.24 0.1784 0.1420

Mars 28594-10-12 02:38 G 12165088.52 12165088.61 12165088.71 0.1755 0.1104

Saturn 28595-08-24 13:12 G 12165404.91 12165405.05 12165405.20 0.0296 0.0165

Saturn 28595-11-21 11:17 G 12165493.80 12165493.97 12165494.14 0.0297 0.0009

Saturn 28596-02-18 08:53 G 12165582.74 12165582.87 12165583.01 0.0297 0.0177

Jupiter 28599-05-07 06:29 G 12166756.67 12166756.77 12166756.87 0.0517 0.0319

Jupiter 28599-08-04 13:41 G 12166845.96 12166846.07 12166846.19 0.0514 0.0272

Moon 28600-09-12 00:43 G 12167249.39 12167249.53 12167249.66 0.2668 0.1179

Earth 28600-09-12 01:55 G 12167249.44 12167249.58 12167249.73 0.2666 0.0924 *

Uranus 28602-12-19 08:53 G 12168077.83 12168077.87 12168077.93 0.0145 0.0134

Moon 28603-03-16 07:12 G 12168164.69 12168164.80 12168164.91 0.2666 0.0162

Earth 28603-03-16 07:55 G 12168164.72 12168164.83 12168164.94 0.2665 0.0323 *

Uranus 28603-03-17 13:12 G 12168165.97 12168166.05 12168166.14 0.0145 0.0112

Uranus 28603-06-13 17:31 G 12168254.12 12168254.23 12168254.34 0.0145 0.0090

Uranus 28603-09-09 21:36 G 12168342.29 12168342.40 12168342.53 0.0145 0.0069

Uranus 28603-12-07 02:09 G 12168430.46 12168430.59 12168430.72 0.0145 0.0046

Uranus 28604-03-04 06:29 G 12168518.63 12168518.77 12168518.91 0.0145 0.0023

Uranus 28604-05-31 10:48 G 12168606.81 12168606.95 12168607.10 0.0145 0.0004

Uranus 28604-08-27 15:21 G 12168695.00 12168695.14 12168695.28 0.0145 0.0023

Uranus 28604-11-23 19:41 G 12168783.19 12168783.32 12168783.46 0.0145 0.0046

Uranus 28605-02-20 00:14 G 12168871.39 12168871.51 12168871.64 0.0146 0.0069

Uranus 28605-05-19 04:33 G 12168959.59 12168959.69 12168959.81 0.0146 0.0093

Uranus 28605-08-15 09:21 G 12169047.81 12169047.89 12169047.98 0.0146 0.0116

Jupiter 28605-10-04 02:24 G 12169097.43 12169097.60 12169097.78 0.0512 0.0030

Uranus 28605-11-11 13:55 G 12169136.05 12169136.08 12169136.12 0.0146 0.0140

Venus 28609-05-22 09:36 G 12170423.79 12170423.90 12170424.01 0.3691 0.1816

Saturn 28609-12-13 11:02 G 12170628.88 12170628.96 12170629.05 0.0264 0.0204

Saturn 28610-03-11 22:05 G 12170717.29 12170717.42 12170717.55 0.0264 0.0109

Saturn 28610-06-08 09:07 G 12170805.74 12170805.88 12170806.02 0.0264 0.0013

Saturn 28610-09-04 20:24 G 12170894.22 12170894.35 12170894.48 0.0264 0.0085

Saturn 28610-12-02 07:41 G 12170982.73 12170982.82 12170982.93 0.0264 0.0184

Venus 28610-12-03 21:07 G 12170984.30 12170984.38 12170984.47 0.3680 0.2271

Jupiter 28611-02-24 10:19 G 12171066.88 12171066.93 12171066.99 0.0518 0.0464

Jupiter 28611-05-24 17:31 G 12171156.10 12171156.23 12171156.36 0.0515 0.0126

Moon 28613-09-15 05:17 G 12172000.61 12172000.72 12172000.84 0.2671 0.1633

Earth 28613-09-15 06:29 G 12172000.65 12172000.77 12172000.88 0.2666 0.1662 *

Mars 28614-09-07 11:02 G 12172357.88 12172357.96 12172358.04 0.1802 0.1482

Venus 28614-12-06 08:38 G 12172447.73 12172447.86 12172447.98 0.3691 0.0836

Mars 28615-07-01 10:33 G 12172654.83 12172654.94 12172655.04 0.1739 0.0968

Moon 28616-03-18 01:55 G 12172915.49 12172915.58 12172915.66 0.2672 0.1770

Earth 28616-03-18 02:09 G 12172915.51 12172915.59 12172915.68 0.2666 0.1774 *

Venus 28616-06-18 15:50 G 12173008.04 12173008.16 12173008.27 0.3679 0.0414

Jupiter 28617-07-23 00:14 G 12173407.35 12173407.51 12173407.67 0.0511 0.0227

Venus 28620-06-21 07:12 G 12174471.75 12174471.80 12174471.85 0.3692 0.3351

Venus 28622-01-02 10:33 G 12175031.83 12175031.94 12175032.04 0.3679 0.1507

Moon 28623-03-12 00:00 G 12175465.44 12175465.50 12175465.56 0.2659 0.2231

Earth 28623-03-12 00:14 G 12175465.45 12175465.51 12175465.57 0.2665 0.2224 *

Jupiter 28623-03-12 21:50 G 12175466.27 12175466.41 12175466.54 0.0516 0.0019

Mars 28624-01-28 13:41 G 12175787.92 12175788.07 12175788.22 0.1793 0.0130

Mars 28624-11-20 18:29 G 12176085.15 12176085.27 12176085.40 0.1746 0.0053

Saturn 28625-01-11 11:31 G 12176136.87 12176136.98 12176137.10 0.0296 0.0221

Saturn 28625-04-10 09:50 G 12176225.74 12176225.91 12176226.08 0.0297 0.0047

Saturn 28625-07-08 07:26 G 12176314.66 12176314.81 12176314.97 0.0297 0.0123

Saturn 28625-10-05 04:33 G 12176403.66 12176403.69 12176403.73 0.0297 0.0289

Venus 28627-07-19 05:31 G 12177055.70 12177055.73 12177055.77 0.3678 0.3514

Jupiter 28629-05-10 22:19 G 12177717.34 12177717.43 12177717.53 0.0510 0.0420

Jupiter 28629-08-09 03:36 G 12177807.53 12177807.65 12177807.77 0.0513 0.0356

Neptune 28630-08-29 17:02 G 12178193.20 12178193.21 12178193.26 0.0088 0.0087

Neptune 28630-11-25 18:43 G 12178281.23 12178281.28 12178281.35 0.0088 0.0079

Neptune 28631-02-21 20:09 G 12178369.27 12178369.34 12178369.43 0.0088 0.0072

Neptune 28631-05-20 21:50 G 12178457.32 12178457.41 12178457.51 0.0088 0.0065

Neptune 28631-08-16 23:17 G 12178545.37 12178545.47 12178545.58 0.0088 0.0058

Neptune 28631-11-13 00:43 G 12178633.43 12178633.53 12178633.65 0.0088 0.0051

Neptune 28632-02-09 02:24 G 12178721.48 12178721.60 12178721.72 0.0088 0.0043

Neptune 28632-05-07 03:50 G 12178809.54 12178809.66 12178809.79 0.0088 0.0036

Neptune 28632-08-03 05:17 G 12178897.59 12178897.72 12178897.86 0.0088 0.0029

Neptune 28632-10-30 06:57 G 12178985.65 12178985.79 12178985.93 0.0088 0.0022

Neptune 28633-01-26 08:24 G 12179073.72 12179073.85 12179073.99 0.0088 0.0015

Neptune 28633-04-24 10:05 G 12179161.78 12179161.92 12179162.06 0.0088 0.0007

Mars 28633-06-19 15:50 G 12179218.06 12179218.16 12179218.27 0.1784 0.1255

Neptune 28633-07-21 11:31 G 12179249.84 12179249.98 12179250.12 0.0088 0.0001

Neptune 28633-10-17 13:12 G 12179337.91 12179338.05 12179338.19 0.0088 0.0008

Neptune 28634-01-13 14:38 G 12179425.97 12179426.11 12179426.25 0.0088 0.0015

Neptune 28634-04-11 16:05 G 12179514.04 12179514.17 12179514.31 0.0088 0.0022

Mars 28634-04-13 02:53 G 12179515.51 12179515.62 12179515.72 0.1754 0.0974

Neptune 28634-07-08 17:45 G 12179602.11 12179602.24 12179602.38 0.0088 0.0029

Neptune 28634-10-04 19:12 G 12179690.18 12179690.30 12179690.44 0.0088 0.0037

Jupiter 28634-12-30 01:55 G 12179776.46 12179776.58 12179776.71 0.0516 0.0154

Neptune 28634-12-31 20:53 G 12179778.25 12179778.37 12179778.50 0.0088 0.0044

Jupiter 28635-03-29 09:36 G 12179865.83 12179865.90 12179865.96 0.0513 0.0440

Neptune 28635-03-29 22:33 G 12179866.33 12179866.44 12179866.56 0.0088 0.0051

Neptune 28635-06-26 00:00 G 12179954.40 12179954.50 12179954.61 0.0088 0.0059

Neptune 28635-09-22 01:41 G 12180042.48 12180042.57 12180042.67 0.0088 0.0066

Neptune 28635-12-19 03:07 G 12180130.56 12180130.63 12180130.72 0.0088 0.0074

Moon 28636-03-13 17:45 G 12180216.14 12180216.24 12180216.35 0.2662 0.0969

Earth 28636-03-13 18:29 G 12180216.16 12180216.27 12180216.38 0.2665 0.0816 *

Neptune 28636-03-16 04:48 G 12180218.66 12180218.70 12180218.76 0.0088 0.0081

Saturn 28639-05-02 12:29 G 12181360.97 12181361.02 12181361.08 0.0264 0.0240

Saturn 28639-07-29 23:17 G 12181449.36 12181449.47 12181449.59 0.0264 0.0146

Saturn 28639-10-26 10:19 G 12181537.80 12181537.93 12181538.07 0.0264 0.0051

Saturn 28640-01-22 21:36 G 12181626.26 12181626.40 12181626.54 0.0264 0.0047

Saturn 28640-04-20 08:53 G 12181714.75 12181714.87 12181714.99 0.0264 0.0145

Saturn 28640-07-17 20:24 G 12181803.30 12181803.35 12181803.40 0.0264 0.0244

Jupiter 28641-05-28 02:24 G 12182117.44 12182117.60 12182117.76 0.0513 0.0169

Uranus 28644-04-19 03:07 G 12183174.55 12183174.63 12183174.72 0.0133 0.0116

Uranus 28644-07-16 08:53 G 12183262.75 12183262.87 12183263.00 0.0133 0.0095

Uranus 28644-10-12 14:38 G 12183350.97 12183351.11 12183351.27 0.0133 0.0073

Uranus 28645-01-08 20:38 G 12183439.20 12183439.36 12183439.52 0.0133 0.0051

Uranus 28645-04-07 02:09 G 12183527.42 12183527.59 12183527.77 0.0133 0.0029

Uranus 28645-07-04 07:55 G 12183615.66 12183615.83 12183616.00 0.0133 0.0008

Uranus 28645-09-30 13:26 G 12183703.89 12183704.06 12183704.24 0.0133 0.0014

Uranus 28645-12-27 18:57 G 12183792.13 12183792.29 12183792.46 0.0133 0.0035

Uranus 28646-03-26 00:29 G 12183880.37 12183880.52 12183880.68 0.0133 0.0056

Uranus 28646-06-22 06:00 G 12183968.61 12183968.75 12183968.89 0.0133 0.0076

Moon 28646-09-13 06:57 G 12184051.64 12184051.79 12184051.93 0.2669 0.0532

Earth 28646-09-13 08:24 G 12184051.70 12184051.85 12184052.00 0.2666 0.0405 *

Uranus 28646-09-18 11:17 G 12184056.86 12184056.97 12184057.09 0.0133 0.0097

Jupiter 28646-10-18 06:14 G 12184086.65 12184086.76 12184086.87 0.0517 0.0295

Uranus 28646-12-15 16:48 G 12184145.12 12184145.20 12184145.28 0.0133 0.0117

Jupiter 28647-01-15 13:26 G 12184175.95 12184176.06 12184176.17 0.0514 0.0296

Moon 28649-03-16 12:00 G 12184966.89 12184967.00 12184967.11 0.2668 0.0594

Earth 28649-03-16 12:43 G 12184966.92 12184967.03 12184967.14 0.2665 0.0618 *

Jupiter 28653-03-16 01:26 G 12186427.39 12186427.56 12186427.73 0.0512 0.0015

Mars 28654-03-08 11:45 G 12186784.93 12186784.99 12186785.04 0.1802 0.1670

Saturn 28654-05-31 07:55 G 12186868.80 12186868.83 12186868.86 0.0296 0.0290

Saturn 28654-08-28 06:14 G 12186957.61 12186957.76 12186957.92 0.0297 0.0115

Saturn 28654-11-25 04:19 G 12187046.51 12187046.68 12187046.85 0.0297 0.0057

Mars 28654-12-30 10:19 G 12187081.84 12187081.93 12187082.03 0.1738 0.1088

Saturn 28655-02-22 01:41 G 12187135.47 12187135.57 12187135.68 0.0297 0.0225

Jupiter 28658-08-06 09:21 G 12188396.83 12188396.89 12188396.95 0.0518 0.0454

Jupiter 28658-11-03 16:33 G 12188486.06 12188486.19 12188486.32 0.0515 0.0135

Moon 28659-09-16 12:00 G 12188802.90 12188803.00 12188803.09 0.2671 0.1988

Earth 28659-09-16 12:43 G 12188802.94 12188803.03 12188803.11 0.2666 0.2166 *

Venus 28660-06-12 09:36 G 12189072.90 12189072.90 12189072.90 0.3690 0.3690

Venus 28661-12-25 00:57 G 12189633.51 12189633.54 12189633.58 0.3681 0.3459

Moon 28662-03-19 06:43 G 12189717.71 12189717.78 12189717.86 0.2672 0.1982

Earth 28662-03-19 07:12 G 12189717.73 12189717.80 12189717.87 0.2666 0.2079 *

Mars 28663-07-29 13:55 G 12190214.94 12190215.08 12190215.23 0.1793 0.0290

Mars 28664-05-21 18:43 G 12190512.15 12190512.28 12190512.40 0.1746 0.0130

Jupiter 28665-01-02 00:00 G 12190737.34 12190737.50 12190737.66 0.0511 0.0201

Venus 28665-12-27 09:07 G 12191096.75 12191096.88 12191097.00 0.3691 0.0919

Pluto 28666-07-11 16:19 G 12191293.16 12191293.18 12191293.23 0.0070 0.0067

Pluto 28666-10-07 17:02 G 12191381.14 12191381.21 12191381.29 0.0070 0.0057

Pluto 28667-01-03 17:17 G 12191469.14 12191469.22 12191469.33 0.0070 0.0048

Pluto 28667-04-01 18:00 G 12191557.15 12191557.25 12191557.37 0.0070 0.0038

Pluto 28667-06-28 18:43 G 12191645.16 12191645.28 12191645.40 0.0070 0.0028

Venus 28667-07-10 19:26 G 12191657.21 12191657.31 12191657.41 0.3680 0.1641

Pluto 28667-09-24 19:26 G 12191733.18 12191733.31 12191733.43 0.0070 0.0018

Pluto 28667-12-21 19:55 G 12191821.20 12191821.33 12191821.46 0.0070 0.0008

Pluto 28668-03-18 20:24 G 12191909.22 12191909.35 12191909.49 0.0070 0.0003

Pluto 28668-06-14 21:07 G 12191997.25 12191997.38 12191997.51 0.0070 0.0011

Pluto 28668-09-10 21:36 G 12192085.28 12192085.40 12192085.53 0.0071 0.0022

Saturn 28668-09-18 15:21 G 12192093.14 12192093.14 12192093.15 0.0264 0.0264

Pluto 28668-12-07 22:05 G 12192173.31 12192173.42 12192173.55 0.0071 0.0032

Saturn 28668-12-16 02:09 G 12192181.49 12192181.59 12192181.70 0.0264 0.0170

Pluto 28669-03-05 22:48 G 12192261.35 12192261.45 12192261.56 0.0071 0.0042

Moon 28669-03-12 04:48 G 12192267.62 12192267.70 12192267.77 0.2660 0.1988

Earth 28669-03-12 05:17 G 12192267.64 12192267.72 12192267.79 0.2665 0.1935 *

Saturn 28669-03-14 13:12 G 12192269.92 12192270.05 12192270.19 0.0264 0.0075

Pluto 28669-06-01 23:17 G 12192349.39 12192349.47 12192349.57 0.0071 0.0052

Saturn 28669-06-11 00:14 G 12192358.37 12192358.51 12192358.66 0.0264 0.0024

Pluto 28669-08-29 00:00 G 12192437.44 12192437.50 12192437.57 0.0071 0.0062

Saturn 28669-09-07 11:45 G 12192446.86 12192446.99 12192447.11 0.0264 0.0120

Saturn 28669-12-04 23:02 G 12192535.39 12192535.46 12192535.54 0.0264 0.0219

Jupiter 28670-08-22 20:24 G 12192796.22 12192796.35 12192796.48 0.0516 0.0013

Venus 28671-07-13 07:55 G 12193120.72 12193120.83 12193120.94 0.3692 0.1688

Mars 28672-12-18 16:19 G 12193645.06 12193645.18 12193645.30 0.1785 0.1084

Venus 28673-01-23 13:55 G 12193680.97 12193681.08 12193681.20 0.3679 0.0257

Mars 28673-10-12 02:53 G 12193942.51 12193942.62 12193942.73 0.1754 0.0836

Jupiter 28676-10-20 21:36 G 12195047.30 12195047.40 12195047.51 0.0510 0.0401

Jupiter 28677-01-19 02:53 G 12195137.50 12195137.62 12195137.73 0.0513 0.0373

Venus 28678-08-09 08:53 G 12195704.78 12195704.87 12195704.96 0.3679 0.2185

Earth 28679-09-11 10:05 G 12196102.87 12196102.92 12196102.96 0.2666 0.2532

Moon 28682-03-14 22:33 G 12197018.33 12197018.44 12197018.55 0.2663 0.0584

Earth 28682-03-14 23:17 G 12197018.36 12197018.47 12197018.58 0.2665 0.0528 *

Jupiter 28682-06-11 00:29 G 12197106.40 12197106.52 12197106.65 0.0516 0.0152

Jupiter 28682-09-08 07:55 G 12197195.77 12197195.83 12197195.90 0.0513 0.0444

Saturn 28684-01-15 04:48 G 12197689.56 12197689.70 12197689.84 0.0297 0.0170

Saturn 28684-04-13 02:53 G 12197778.45 12197778.62 12197778.80 0.0297 0.0009

Saturn 28684-07-11 00:29 G 12197867.39 12197867.52 12197867.66 0.0297 0.0173

Uranus 28687-01-08 17:02 G 12198779.14 12198779.21 12198779.28 0.0145 0.0125

Uranus 28687-04-06 21:21 G 12198867.29 12198867.39 12198867.48 0.0145 0.0103

Uranus 28687-07-04 01:26 G 12198955.45 12198955.56 12198955.68 0.0145 0.0082

Uranus 28687-09-30 05:45 G 12199043.61 12199043.74 12199043.87 0.0145 0.0059

Uranus 28687-12-27 10:05 G 12199131.78 12199131.92 12199132.06 0.0145 0.0037

Uranus 28688-03-24 14:24 G 12199219.96 12199220.10 12199220.25 0.0145 0.0015

Uranus 28688-06-20 18:57 G 12199308.14 12199308.29 12199308.43 0.0145 0.0009

Uranus 28688-09-16 23:17 G 12199396.33 12199396.47 12199396.61 0.0145 0.0031

Jupiter 28688-11-07 01:26 G 12199447.40 12199447.56 12199447.72 0.0512 0.0184

Uranus 28688-12-14 03:36 G 12199484.52 12199484.65 12199484.79 0.0145 0.0055

Uranus 28689-03-12 08:09 G 12199572.72 12199572.84 12199572.96 0.0145 0.0078

Uranus 28689-06-08 12:29 G 12199660.93 12199661.02 12199661.14 0.0146 0.0102

Uranus 28689-09-04 17:17 G 12199749.15 12199749.22 12199749.30 0.0146 0.0125

Moon 28692-09-13 13:12 G 12200853.91 12200854.05 12200854.20 0.2669 0.0124

Earth 28692-09-13 14:38 G 12200853.96 12200854.11 12200854.26 0.2666 0.0127 *

Jupiter 28694-03-30 05:02 G 12201416.60 12201416.71 12201416.82 0.0517 0.0288

Jupiter 28694-06-27 12:14 G 12201505.90 12201506.01 12201506.12 0.0514 0.0304

Mars 28694-06-30 10:33 G 12201508.85 12201508.94 12201509.03 0.1738 0.1225

Moon 28695-03-17 17:02 G 12201769.10 12201769.21 12201769.32 0.2670 0.0771

Earth 28695-03-17 17:45 G 12201769.13 12201769.24 12201769.34 0.2665 0.0922 *

Saturn 28698-05-05 03:36 G 12202913.57 12202913.65 12202913.74 0.0264 0.0206

Saturn 28698-08-01 14:38 G 12203001.98 12203002.11 12203002.23 0.0264 0.0112

Saturn 28698-10-29 01:41 G 12203090.43 12203090.57 12203090.71 0.0264 0.0016

Saturn 28699-01-25 12:43 G 12203178.90 12203179.03 12203179.17 0.0264 0.0082

Saturn 28699-04-24 00:14 G 12203267.40 12203267.51 12203267.61 0.0264 0.0180

Jupiter 28700-08-27 00:00 G 12203757.32 12203757.50 12203757.67 0.0512 0.0007

Mars 28703-01-28 14:24 G 12204641.96 12204642.10 12204642.25 0.1793 0.0472

Mars 28703-11-21 18:43 G 12204939.16 12204939.28 12204939.41 0.1746 0.0259

Earth 28705-09-17 18:57 G 12205605.28 12205605.29 12205605.29 0.2666 0.2660

Jupiter 28706-01-17 09:07 G 12205726.81 12205726.88 12205726.95 0.0518 0.0429

Jupiter 28706-04-16 16:19 G 12205816.05 12205816.18 12205816.30 0.0514 0.0161

Moon 28708-03-20 11:45 G 12206519.95 12206519.99 12206520.04 0.2672 0.2421

Earth 28708-03-20 12:00 G 12206519.95 12206520.00 12206520.05 0.2666 0.2382 *

Jupiter 28712-06-14 23:02 G 12208067.30 12208067.46 12208067.62 0.0511 0.0186

Mars 28712-06-19 16:48 G 12208072.07 12208072.20 12208072.33 0.1785 0.0901

Mars 28713-04-13 02:53 G 12208369.51 12208369.62 12208369.74 0.1754 0.0716

Saturn 28713-06-04 00:29 G 12208421.43 12208421.52 12208421.63 0.0296 0.0243

Saturn 28713-08-31 23:02 G 12208510.29 12208510.46 12208510.63 0.0297 0.0068

Saturn 28713-11-28 20:53 G 12208599.21 12208599.37 12208599.53 0.0297 0.0104

Saturn 28714-02-25 18:14 G 12208688.20 12208688.26 12208688.33 0.0297 0.0271

Neptune 28714-11-12 06:43 G 12208947.71 12208947.78 12208947.84 0.0089 0.0082

Neptune 28715-02-08 09:21 G 12209035.80 12209035.89 12209036.01 0.0089 0.0073

Moon 28715-03-14 09:36 G 12209069.81 12209069.90 12209069.98 0.2660 0.1733

Earth 28715-03-14 10:05 G 12209069.83 12209069.92 12209070.01 0.2665 0.1642 *

Neptune 28715-05-07 12:29 G 12209123.91 12209124.02 12209124.16 0.0089 0.0063

Neptune 28715-08-03 15:50 G 12209212.02 12209212.16 12209212.30 0.0089 0.0053

Neptune 28715-10-30 18:29 G 12209300.13 12209300.27 12209300.44 0.0089 0.0044

Neptune 28716-01-26 21:50 G 12209388.25 12209388.41 12209388.58 0.0089 0.0034

Neptune 28716-04-24 00:57 G 12209476.37 12209476.54 12209476.71 0.0089 0.0024

Neptune 28716-07-21 03:50 G 12209564.49 12209564.66 12209564.84 0.0089 0.0015

Neptune 28716-10-17 06:57 G 12209652.61 12209652.79 12209652.97 0.0089 0.0005

Neptune 28717-01-13 09:50 G 12209740.73 12209740.91 12209741.09 0.0089 0.0005

Venus 28717-01-18 09:21 G 12209745.80 12209745.89 12209745.97 0.3691 0.2758

Neptune 28717-04-11 12:43 G 12209828.86 12209829.03 12209829.21 0.0089 0.0014

Neptune 28717-07-08 15:50 G 12209916.99 12209917.16 12209917.33 0.0089 0.0023

Neptune 28717-10-04 18:43 G 12210005.12 12210005.28 12210005.45 0.0089 0.0033

Neptune 28717-12-31 21:21 G 12210093.25 12210093.39 12210093.56 0.0089 0.0043

Jupiter 28718-02-02 19:26 G 12210126.17 12210126.31 12210126.44 0.0515 0.0016

Neptune 28718-03-30 00:29 G 12210181.38 12210181.52 12210181.67 0.0089 0.0051

Neptune 28718-06-26 03:36 G 12210269.52 12210269.65 12210269.78 0.0089 0.0061

Venus 28718-08-01 23:17 G 12210306.40 12210306.47 12210306.54 0.3680 0.2845

Neptune 28718-09-22 06:00 G 12210357.66 12210357.75 12210357.88 0.0089 0.0070

Neptune 28718-12-19 08:53 G 12210445.81 12210445.87 12210445.97 0.0089 0.0080

Neptune 28719-03-17 12:00 G 12210533.99 12210534.00 12210534.03 0.0089 0.0088

Venus 28722-08-04 08:24 G 12211769.72 12211769.85 12211769.98 0.3691 0.0077

Mars 28722-09-03 11:17 G 12211799.94 12211799.97 12211800.01 0.1762 0.1672

Venus 28724-02-15 17:45 G 12212330.13 12212330.24 12212330.35 0.3680 0.1020

Jupiter 28724-04-02 21:36 G 12212377.28 12212377.40 12212377.52 0.0510 0.0373

Jupiter 28724-07-02 02:38 G 12212467.51 12212467.61 12212467.72 0.0513 0.0402

Moon 28725-09-12 14:38 G 12212905.03 12212905.11 12212905.20 0.2667 0.2142

Earth 28725-09-12 16:19 G 12212905.08 12212905.18 12212905.28 0.2666 0.2012 *

Saturn 28727-09-23 06:29 G 12213645.70 12213645.77 12213645.83 0.0264 0.0231

Saturn 28727-12-20 17:17 G 12213734.10 12213734.22 12213734.34 0.0264 0.0137

Uranus 28728-02-12 05:17 G 12213787.69 12213787.72 12213787.77 0.0133 0.0130

Venus 28728-02-18 07:12 G 12213793.71 12213793.80 12213793.89 0.3692 0.2546

Moon 28728-03-16 03:36 G 12213820.53 12213820.65 12213820.76 0.2665 0.0359

Earth 28728-03-16 04:19 G 12213820.56 12213820.68 12213820.79 0.2665 0.0248 *

Saturn 28728-03-18 04:19 G 12213822.54 12213822.68 12213822.81 0.0264 0.0042

Uranus 28728-05-10 11:02 G 12213875.87 12213875.96 12213876.08 0.0133 0.0108

Saturn 28728-06-14 15:21 G 12213911.00 12213911.14 12213911.28 0.0264 0.0055

Uranus 28728-08-06 17:02 G 12213964.08 12213964.21 12213964.35 0.0133 0.0085

Saturn 28728-09-11 02:38 G 12213999.50 12213999.61 12213999.73 0.0264 0.0154

Uranus 28728-11-02 22:48 G 12214052.30 12214052.45 12214052.61 0.0133 0.0063

Saturn 28728-12-08 14:09 G 12214088.06 12214088.09 12214088.13 0.0263 0.0253

Uranus 28729-01-30 04:33 G 12214140.53 12214140.69 12214140.86 0.0133 0.0042

Uranus 28729-04-28 10:19 G 12214228.76 12214228.93 12214229.11 0.0133 0.0020

Uranus 28729-07-25 16:05 G 12214316.99 12214317.17 12214317.34 0.0133 0.0002

Venus 28729-08-31 12:14 G 12214353.90 12214354.01 12214354.13 0.3679 0.0898

Uranus 28729-10-21 21:36 G 12214405.23 12214405.40 12214405.57 0.0133 0.0023

Jupiter 28729-11-21 23:17 G 12214436.34 12214436.47 12214436.60 0.0516 0.0147

Uranus 28730-01-18 03:07 G 12214493.47 12214493.63 12214493.80 0.0133 0.0044

Jupiter 28730-02-19 06:43 G 12214525.72 12214525.78 12214525.84 0.0513 0.0447

Uranus 28730-04-16 08:24 G 12214581.71 12214581.85 12214582.01 0.0133 0.0065

Uranus 28730-07-13 14:09 G 12214669.96 12214670.09 12214670.22 0.0133 0.0086

Uranus 28730-10-09 19:26 G 12214758.21 12214758.31 12214758.42 0.0133 0.0106

Uranus 28731-01-06 00:43 G 12214846.49 12214846.53 12214846.59 0.0133 0.0127

Mars 28733-12-30 10:48 G 12215935.87 12215935.95 12215936.02 0.1738 0.1364

Venus 28735-03-17 07:12 G 12216377.73 12216377.80 12216377.87 0.3678 0.2873

Jupiter 28736-04-20 00:43 G 12216777.37 12216777.53 12216777.69 0.0512 0.0205

Moon 28738-09-15 19:41 G 12217656.18 12217656.32 12217656.47 0.2669 0.0482

Earth 28738-09-15 21:07 G 12217656.23 12217656.38 12217656.52 0.2666 0.0633 *

Moon 28741-03-18 21:50 G 12218571.31 12218571.41 12218571.51 0.2670 0.1184

Earth 28741-03-18 22:33 G 12218571.34 12218571.44 12218571.54 0.2665 0.1215 *

Jupiter 28741-09-10 03:36 G 12218746.54 12218746.65 12218746.76 0.0517 0.0287

Jupiter 28741-12-08 10:48 G 12218835.84 12218835.95 12218836.06 0.0514 0.0306

Mars 28742-07-29 14:53 G 12219068.99 12219069.12 12219069.26 0.1794 0.0647

Saturn 28743-01-18 21:36 G 12219242.25 12219242.40 12219242.56 0.0297 0.0123

Saturn 28743-04-17 19:41 G 12219331.15 12219331.32 12219331.49 0.0297 0.0050

Mars 28743-05-22 18:43 G 12219366.16 12219366.28 12219366.41 0.1746 0.0394

Saturn 28743-07-15 17:02 G 12219420.10 12219420.21 12219420.33 0.0297 0.0219

Jupiter 28748-02-06 23:17 G 12221087.29 12221087.47 12221087.64 0.0511 0.0020

Mars 28751-12-19 17:17 G 12222499.09 12222499.22 12222499.36 0.1785 0.0724

Pluto 28752-08-19 20:09 G 12222743.26 12222743.34 12222743.46 0.0074 0.0064

Mars 28752-10-12 03:07 G 12222796.51 12222796.63 12222796.75 0.1754 0.0578

Pluto 28752-11-15 23:02 G 12222831.31 12222831.46 12222831.63 0.0074 0.0045

Pluto 28753-02-12 01:26 G 12222919.39 12222919.56 12222919.76 0.0074 0.0028

Pluto 28753-05-11 04:19 G 12223007.49 12223007.68 12223007.88 0.0074 0.0010

Jupiter 28753-06-29 07:55 G 12223056.76 12223056.83 12223056.90 0.0518 0.0423

Pluto 28753-08-07 06:57 G 12223095.59 12223095.79 12223095.99 0.0074 0.0007

Jupiter 28753-09-26 15:07 G 12223146.00 12223146.13 12223146.25 0.0515 0.0168

Pluto 28753-11-03 09:21 G 12223183.71 12223183.89 12223184.09 0.0074 0.0025

Pluto 28754-01-30 12:00 G 12223271.84 12223272.00 12223272.17 0.0073 0.0042

Moon 28754-03-21 17:02 G 12223322.20 12223322.21 12223322.22 0.2672 0.2639

Pluto 28754-04-28 14:09 G 12223359.99 12223360.09 12223360.23 0.0073 0.0059

Saturn 28757-05-08 18:43 G 12224466.18 12224466.28 12224466.38 0.0264 0.0173

Saturn 28757-08-05 05:31 G 12224554.60 12224554.73 12224554.87 0.0264 0.0079

Saturn 28757-11-01 16:48 G 12224643.06 12224643.20 12224643.34 0.0264 0.0020

Saturn 28758-01-29 03:50 G 12224731.54 12224731.66 12224731.79 0.0263 0.0116

Saturn 28758-04-27 15:21 G 12224820.06 12224820.14 12224820.22 0.0263 0.0215

Jupiter 28759-11-25 21:36 G 12225397.24 12225397.40 12225397.56 0.0511 0.0177

Moon 28761-03-14 14:24 G 12225872.00 12225872.10 12225872.19 0.2660 0.1390

Earth 28761-03-14 14:53 G 12225872.03 12225872.12 12225872.22 0.2665 0.1348 *

Mars 28762-03-04 11:17 G 12226226.92 12226226.97 12226227.03 0.1762 0.1552

Jupiter 28765-07-15 19:12 G 12227456.16 12227456.30 12227456.43 0.0515 0.0027

Uranus 28770-11-02 20:53 G 12229392.33 12229392.37 12229392.41 0.0145 0.0138

Uranus 28771-01-30 00:57 G 12229480.46 12229480.54 12229480.63 0.0145 0.0117

Uranus 28771-04-28 05:02 G 12229568.62 12229568.71 12229568.83 0.0145 0.0095

Uranus 28771-07-25 09:21 G 12229656.78 12229656.89 12229657.02 0.0145 0.0073

Jupiter 28771-09-13 20:24 G 12229707.23 12229707.35 12229707.48 0.0510 0.0360

Moon 28771-09-13 21:07 G 12229707.27 12229707.38 12229707.49 0.2668 0.1779 *

Earth 28771-09-13 22:33 G 12229707.32 12229707.44 12229707.57 0.2666 0.1488 *

Uranus 28771-10-21 13:55 G 12229744.94 12229745.08 12229745.21 0.0145 0.0051

Jupiter 28771-12-13 01:41 G 12229797.48 12229797.57 12229797.67 0.0513 0.0416

Uranus 28772-01-17 18:14 G 12229833.12 12229833.26 12229833.40 0.0145 0.0028

Uranus 28772-04-14 22:33 G 12229921.30 12229921.44 12229921.58 0.0145 0.0006

Saturn 28772-06-06 17:17 G 12229974.10 12229974.22 12229974.35 0.0296 0.0197

Uranus 28772-07-12 02:53 G 12230009.48 12230009.62 12230009.76 0.0145 0.0017

Saturn 28772-09-03 15:36 G 12230062.98 12230063.15 12230063.32 0.0297 0.0022

Uranus 28772-10-08 07:12 G 12230097.67 12230097.80 12230097.94 0.0145 0.0040

Saturn 28772-12-01 13:26 G 12230151.91 12230152.06 12230152.21 0.0297 0.0149

Uranus 28773-01-04 11:45 G 12230185.86 12230185.99 12230186.12 0.0145 0.0063

Uranus 28773-04-02 16:05 G 12230274.06 12230274.17 12230274.29 0.0145 0.0087

Uranus 28773-06-29 20:38 G 12230362.27 12230362.36 12230362.46 0.0145 0.0110

Mars 28773-06-30 10:48 G 12230362.88 12230362.95 12230363.01 0.1738 0.1490

Venus 28773-08-25 08:38 G 12230418.75 12230418.86 12230418.98 0.3691 0.1853

Uranus 28773-09-26 01:12 G 12230450.50 12230450.55 12230450.61 0.0145 0.0134

Moon 28774-03-17 08:24 G 12230622.74 12230622.85 12230622.96 0.2666 0.0049

Earth 28774-03-17 09:07 G 12230622.77 12230622.88 12230622.99 0.2665 0.0072 *

Venus 28775-03-08 21:21 G 12230979.30 12230979.39 12230979.48 0.3680 0.2226

Jupiter 28777-05-03 22:19 G 12231766.30 12231766.43 12231766.56 0.0516 0.0135

Jupiter 28777-08-01 05:45 G 12231855.68 12231855.74 12231855.80 0.0513 0.0459

Venus 28779-03-11 07:55 G 12232442.70 12232442.83 12232442.95 0.3691 0.0839

Venus 28780-09-21 15:50 G 12233003.05 12233003.16 12233003.28 0.3679 0.0378

Mars 28782-01-27 15:21 G 12233496.01 12233496.14 12233496.27 0.1794 0.0817

Mars 28782-11-20 18:57 G 12233793.17 12233793.29 12233793.41 0.1746 0.0527

Jupiter 28783-10-01 00:43 G 12234107.38 12234107.53 12234107.68 0.0512 0.0233

Moon 28784-09-16 02:09 G 12234458.45 12234458.59 12234458.73 0.2671 0.1026

Earth 28784-09-16 03:07 G 12234458.50 12234458.63 12234458.77 0.2666 0.1131 *

Venus 28784-09-24 06:29 G 12234466.73 12234466.77 12234466.82 0.3692 0.3392

Venus 28786-04-07 10:33 G 12235026.84 12235026.94 12235027.05 0.3679 0.1570

Saturn 28786-09-25 21:21 G 12235198.30 12235198.39 12235198.48 0.0264 0.0199

Saturn 28786-12-23 08:09 G 12235286.72 12235286.84 12235286.97 0.0264 0.0105

Moon 28787-03-20 02:53 G 12235373.53 12235373.62 12235373.72 0.2670 0.1407

Earth 28787-03-20 03:21 G 12235373.55 12235373.64 12235373.74 0.2665 0.1517 *

Saturn 28787-03-21 19:12 G 12235375.16 12235375.30 12235375.44 0.0264 0.0011

Saturn 28787-06-18 06:29 G 12235463.64 12235463.77 12235463.90 0.0264 0.0089

Saturn 28787-09-14 17:45 G 12235552.15 12235552.24 12235552.34 0.0263 0.0188

Jupiter 28789-02-20 02:09 G 12236076.48 12236076.59 12236076.70 0.0517 0.0281

Jupiter 28789-05-20 09:21 G 12236165.79 12236165.89 12236166.00 0.0514 0.0311

Mars 28791-06-19 17:45 G 12236926.09 12236926.24 12236926.38 0.1785 0.0563

Venus 28791-10-22 05:45 G 12237050.71 12237050.74 12237050.76 0.3678 0.3566

Mars 28792-04-12 03:07 G 12237223.51 12237223.63 12237223.75 0.1753 0.0446

Moon 28794-03-13 01:26 G 12237923.52 12237923.56 12237923.60 0.2658 0.2416

Earth 28794-03-13 01:41 G 12237923.53 12237923.57 12237923.61 0.2665 0.2449 *

Neptune 28795-05-27 16:05 G 12238364.15 12238364.17 12238364.22 0.0088 0.0086

Jupiter 28795-07-19 22:33 G 12238417.27 12238417.44 12238417.61 0.0511 0.0035

Neptune 28795-08-23 17:31 G 12238452.18 12238452.23 12238452.31 0.0088 0.0079

Neptune 28795-11-19 19:26 G 12238540.23 12238540.31 12238540.39 0.0088 0.0071

Neptune 28796-02-15 20:53 G 12238628.28 12238628.37 12238628.47 0.0088 0.0064

Neptune 28796-05-13 22:19 G 12238716.33 12238716.43 12238716.54 0.0088 0.0057

Neptune 28796-08-09 23:45 G 12238804.38 12238804.49 12238804.61 0.0088 0.0050

Neptune 28796-11-06 01:12 G 12238892.43 12238892.55 12238892.68 0.0088 0.0043

Neptune 28797-02-02 02:38 G 12238980.49 12238980.61 12238980.75 0.0088 0.0036

Neptune 28797-05-01 04:19 G 12239068.55 12239068.68 12239068.82 0.0088 0.0028

Neptune 28797-07-28 05:45 G 12239156.61 12239156.74 12239156.88 0.0088 0.0021

Neptune 28797-10-24 07:26 G 12239244.67 12239244.81 12239244.95 0.0088 0.0014

Neptune 28798-01-20 08:53 G 12239332.73 12239332.87 12239333.01 0.0088 0.0006

Neptune 28798-04-18 10:33 G 12239420.80 12239420.94 12239421.08 0.0088 0.0002

Neptune 28798-07-15 12:00 G 12239508.86 12239509.00 12239509.14 0.0088 0.0008

Neptune 28798-10-11 13:26 G 12239596.93 12239597.06 12239597.20 0.0088 0.0016

Neptune 28799-01-07 14:53 G 12239684.99 12239685.12 12239685.27 0.0088 0.0024

Neptune 28799-04-05 16:33 G 12239773.06 12239773.19 12239773.33 0.0088 0.0030

Neptune 28799-07-02 18:14 G 12239861.13 12239861.26 12239861.39 0.0088 0.0038

Neptune 28799-09-28 19:41 G 12239949.20 12239949.32 12239949.45 0.0088 0.0045

Neptune 28799-12-25 21:21 G 12240037.28 12240037.39 12240037.51 0.0088 0.0052

Neptune 28800-03-22 22:48 G 12240125.35 12240125.45 12240125.56 0.0088 0.0060

Neptune 28800-06-19 00:29 G 12240213.43 12240213.52 12240213.62 0.0088 0.0067

Neptune 28800-09-15 01:55 G 12240301.52 12240301.58 12240301.67 0.0088 0.0075

Jupiter 28800-12-09 06:29 G 12240386.69 12240386.77 12240386.84 0.0518 0.0421

Neptune 28800-12-12 03:36 G 12240389.61 12240389.65 12240389.71 0.0088 0.0082

Jupiter 28801-03-08 13:26 G 12240475.94 12240476.06 12240476.19 0.0515 0.0170

Mars 28801-09-02 11:31 G 12240653.91 12240653.98 12240654.05 0.1761 0.1421

Saturn 28801-10-24 16:05 G 12240706.08 12240706.17 12240706.27 0.0297 0.0250

Saturn 28802-01-21 14:38 G 12240794.94 12240795.11 12240795.28 0.0297 0.0074

Saturn 28802-04-20 12:29 G 12240883.86 12240884.02 12240884.18 0.0297 0.0098

Saturn 28802-07-18 09:50 G 12240972.84 12240972.91 12240972.99 0.0297 0.0266

Moon 28807-03-15 19:12 G 12242674.20 12242674.30 12242674.40 0.2661 0.1180

Earth 28807-03-15 19:41 G 12242674.22 12242674.32 12242674.43 0.2665 0.1060 *

Jupiter 28807-05-07 20:53 G 12242727.20 12242727.37 12242727.53 0.0511 0.0159

Uranus 28812-03-03 13:26 G 12244488.99 12244489.06 12244489.14 0.0134 0.0120

Uranus 28812-05-30 19:12 G 12244577.19 12244577.30 12244577.43 0.0133 0.0099

Uranus 28812-08-27 00:57 G 12244665.41 12244665.54 12244665.70 0.0133 0.0077

Uranus 28812-11-23 06:57 G 12244753.64 12244753.79 12244753.96 0.0133 0.0054

Jupiter 28812-12-25 17:45 G 12244786.11 12244786.24 12244786.38 0.0516 0.0033

Mars 28812-12-29 10:48 G 12244789.91 12244789.95 12244789.99 0.1738 0.1625

Uranus 28813-02-19 12:43 G 12244841.86 12244842.03 12244842.20 0.0133 0.0033

Uranus 28813-05-18 18:29 G 12244930.10 12244930.27 12244930.44 0.0133 0.0011

Uranus 28813-08-15 00:00 G 12245018.33 12245018.50 12245018.68 0.0133 0.0011

Uranus 28813-11-11 05:31 G 12245106.57 12245106.73 12245106.91 0.0133 0.0032

Uranus 28814-02-07 11:02 G 12245194.81 12245194.96 12245195.13 0.0133 0.0053

Uranus 28814-05-06 16:48 G 12245283.05 12245283.20 12245283.34 0.0133 0.0074

Uranus 28814-08-02 22:05 G 12245371.31 12245371.42 12245371.54 0.0133 0.0094

Uranus 28814-10-30 03:21 G 12245459.57 12245459.64 12245459.73 0.0133 0.0115

Saturn 28816-02-12 23:02 G 12245930.40 12245930.46 12245930.53 0.0264 0.0233

Saturn 28816-05-11 09:50 G 12246018.80 12246018.91 12246019.03 0.0264 0.0139

Saturn 28816-08-07 20:53 G 12246107.23 12246107.37 12246107.51 0.0264 0.0043

Saturn 28816-11-04 07:55 G 12246195.69 12246195.83 12246195.97 0.0263 0.0054

Saturn 28817-01-31 19:12 G 12246284.19 12246284.30 12246284.42 0.0263 0.0152

Saturn 28817-04-30 06:29 G 12246372.74 12246372.77 12246372.82 0.0263 0.0252

Moon 28817-09-14 03:21 G 12246509.50 12246509.64 12246509.78 0.2668 0.1076

Earth 28817-09-14 05:02 G 12246509.57 12246509.71 12246509.85 0.2666 0.0973 *

Jupiter 28819-02-23 18:57 G 12247037.16 12247037.29 12247037.42 0.0510 0.0351

Jupiter 28819-05-25 00:00 G 12247127.41 12247127.50 12247127.60 0.0513 0.0424

Moon 28820-03-17 13:12 G 12247424.94 12247425.05 12247425.16 0.2667 0.0292

Earth 28820-03-17 13:55 G 12247424.97 12247425.08 12247425.19 0.2665 0.0372 *

Mars 28821-07-28 15:50 G 12247923.03 12247923.16 12247923.28 0.1794 0.0991

Mars 28822-05-21 18:57 G 12248220.18 12248220.29 12248220.41 0.1745 0.0659

Jupiter 28824-10-13 22:05 G 12249096.29 12249096.42 12249096.55 0.0516 0.0111

Jupiter 28825-01-11 05:31 G 12249185.69 12249185.73 12249185.77 0.0513 0.0483

Venus 28826-03-30 01:26 G 12249628.52 12249628.56 12249628.60 0.3681 0.3409

Venus 28830-04-01 08:24 G 12251091.72 12251091.85 12251091.97 0.3691 0.0944

Moon 28830-09-17 08:38 G 12251260.74 12251260.86 12251260.99 0.2672 0.1489

Earth 28830-09-17 09:36 G 12251260.78 12251260.90 12251261.01 0.2666 0.1640 *

Mars 28830-12-18 18:14 G 12251353.12 12251353.26 12251353.41 0.1785 0.0369

Jupiter 28831-03-12 23:31 G 12251437.33 12251437.48 12251437.63 0.0513 0.0246

Saturn 28831-06-10 10:19 G 12251526.78 12251526.93 12251527.08 0.0296 0.0148

Saturn 28831-09-07 08:24 G 12251615.68 12251615.85 12251616.02 0.0297 0.0026

Mars 28831-10-12 03:07 G 12251650.51 12251650.63 12251650.76 0.1754 0.0324

Venus 28831-10-13 19:41 G 12251652.22 12251652.32 12251652.42 0.3680 0.1591

Saturn 28831-12-05 06:00 G 12251704.63 12251704.75 12251704.88 0.0297 0.0196

Moon 28833-03-20 07:55 G 12252175.75 12252175.83 12252175.92 0.2671 0.1783

Earth 28833-03-20 08:24 G 12252175.77 12252175.85 12252175.93 0.2665 0.1819 *

Venus 28835-10-16 07:26 G 12253115.69 12253115.81 12253115.92 0.3692 0.1725

Jupiter 28836-08-02 01:12 G 12253406.44 12253406.55 12253406.66 0.0517 0.0269

Jupiter 28836-10-30 08:24 G 12253495.75 12253495.85 12253495.96 0.0514 0.0322

Venus 28837-04-28 14:09 G 12253675.98 12253676.09 12253676.21 0.3679 0.0301

Moon 28840-03-13 06:14 G 12254725.70 12254725.76 12254725.82 0.2658 0.2261

Earth 28840-03-13 06:29 G 12254725.71 12254725.77 12254725.84 0.2665 0.2162 *

Mars 28840-05-09 20:24 G 12254783.33 12254783.35 12254783.36 0.1777 0.1760

Mars 28841-03-03 11:31 G 12255080.90 12255080.98 12255081.07 0.1761 0.1286

Venus 28842-11-12 09:07 G 12255699.79 12255699.88 12255699.97 0.3679 0.2251

Jupiter 28842-12-29 22:19 G 12255747.26 12255747.43 12255747.60 0.0512 0.0061

Saturn 28845-07-02 01:41 G 12256662.55 12256662.57 12256662.59 0.0264 0.0260

Saturn 28845-09-28 12:29 G 12256750.91 12256751.02 12256751.13 0.0264 0.0166

Saturn 28845-12-25 23:31 G 12256839.34 12256839.48 12256839.61 0.0264 0.0070

Saturn 28846-03-24 10:33 G 12256927.80 12256927.94 12256928.08 0.0264 0.0027

Saturn 28846-06-20 21:50 G 12257016.28 12257016.41 12257016.53 0.0264 0.0125

Saturn 28846-09-17 09:07 G 12257104.81 12257104.88 12257104.96 0.0264 0.0224

Jupiter 28848-05-21 05:02 G 12257716.64 12257716.71 12257716.79 0.0518 0.0416

Jupiter 28848-08-18 12:14 G 12257805.88 12257806.01 12257806.13 0.0515 0.0174

Moon 28853-03-16 00:00 G 12259476.39 12259476.50 12259476.61 0.2663 0.0796

Earth 28853-03-16 00:43 G 12259476.42 12259476.53 12259476.64 0.2665 0.0762 *

Jupiter 28854-10-17 19:55 G 12260057.17 12260057.33 12260057.50 0.0511 0.0139

Uranus 28854-11-23 05:02 G 12260093.65 12260093.71 12260093.78 0.0145 0.0128

Uranus 28855-02-19 09:07 G 12260181.80 12260181.88 12260181.98 0.0145 0.0107

Uranus 28855-05-18 13:26 G 12260269.95 12260270.06 12260270.18 0.0145 0.0085

Uranus 28855-08-14 17:45 G 12260358.12 12260358.24 12260358.37 0.0145 0.0063

Uranus 28855-11-10 22:05 G 12260446.29 12260446.42 12260446.56 0.0145 0.0040

Uranus 28856-02-07 02:24 G 12260534.46 12260534.60 12260534.74 0.0145 0.0018

Uranus 28856-05-05 06:43 G 12260622.64 12260622.78 12260622.93 0.0145 0.0007

Uranus 28856-08-01 11:17 G 12260710.83 12260710.97 12260711.11 0.0145 0.0028

Uranus 28856-10-28 15:36 G 12260799.02 12260799.15 12260799.29 0.0145 0.0051

Uranus 28857-01-24 19:55 G 12260887.22 12260887.33 12260887.46 0.0145 0.0074

Uranus 28857-04-23 00:29 G 12260975.42 12260975.52 12260975.63 0.0145 0.0098

Uranus 28857-07-20 05:02 G 12261063.64 12261063.71 12261063.79 0.0145 0.0121

Uranus 28857-10-16 09:36 G 12261151.89 12261151.90 12261151.92 0.0145 0.0145

Jupiter 28860-06-06 16:19 G 12262116.04 12262116.18 12262116.31 0.0516 0.0033

Saturn 28860-10-27 09:21 G 12262258.77 12262258.89 12262259.03 0.0297 0.0199

Saturn 28861-01-24 07:55 G 12262347.66 12262347.83 12262348.00 0.0297 0.0023

Mars 28861-01-26 16:19 G 12262350.07 12262350.18 12262350.29 0.1794 0.1178

Saturn 28861-04-23 05:45 G 12262436.59 12262436.74 12262436.88 0.0297 0.0149

Mars 28861-11-19 19:12 G 12262647.19 12262647.30 12262647.41 0.1745 0.0790

Moon 28863-09-15 09:50 G 12263311.77 12263311.91 12263312.06 0.2668 0.0727

Earth 28863-09-15 11:17 G 12263311.82 12263311.97 12263312.12 0.2666 0.0448 *

Moon 28866-03-18 18:14 G 12264227.15 12264227.26 12264227.37 0.2667 0.0530

Earth 28866-03-18 18:57 G 12264227.18 12264227.29 12264227.40 0.2665 0.0670 *

Jupiter 28866-08-05 18:00 G 12264367.12 12264367.25 12264367.38 0.0510 0.0334

Jupiter 28866-11-03 23:17 G 12264457.38 12264457.47 12264457.55 0.0513 0.0439

Mars 28870-06-18 18:43 G 12265780.13 12265780.28 12265780.42 0.1785 0.0206

Mars 28871-04-12 03:21 G 12266077.51 12266077.64 12266077.76 0.1753 0.0189

Jupiter 28872-03-25 20:38 G 12266426.23 12266426.36 12266426.49 0.0516 0.0109

Jupiter 28872-06-23 04:05 G 12266515.63 12266515.67 12266515.71 0.0513 0.0487

Saturn 28875-02-15 14:24 G 12267483.01 12267483.10 12267483.20 0.0264 0.0197

Saturn 28875-05-15 01:12 G 12267571.43 12267571.55 12267571.68 0.0264 0.0103

Saturn 28875-08-11 12:14 G 12267659.87 12267660.01 12267660.16 0.0264 0.0011

Saturn 28875-11-07 23:31 G 12267748.35 12267748.48 12267748.61 0.0263 0.0091

Saturn 28876-02-04 10:48 G 12267836.86 12267836.95 12267837.05 0.0263 0.0190

Moon 28876-09-17 15:07 G 12268063.04 12268063.13 12268063.21 0.2673 0.2145

Earth 28876-09-17 15:36 G 12268063.07 12268063.15 12268063.24 0.2666 0.2135 *

Jupiter 28878-08-22 21:36 G 12268767.26 12268767.40 12268767.56 0.0512 0.0250

Moon 28879-03-21 12:57 G 12268977.98 12268978.04 12268978.11 0.2672 0.2118

Earth 28879-03-21 13:12 G 12268977.99 12268978.05 12268978.12 0.2665 0.2123 *

Neptune 28879-08-09 03:36 G 12269118.60 12269118.65 12269118.73 0.0089 0.0082

Neptune 28879-11-05 06:57 G 12269206.69 12269206.79 12269206.90 0.0089 0.0072

Mars 28879-11-08 21:07 G 12269210.31 12269210.38 12269210.44 0.1777 0.1566

Neptune 28880-02-01 10:05 G 12269294.80 12269294.92 12269295.05 0.0089 0.0063

Neptune 28880-04-29 12:57 G 12269382.91 12269383.04 12269383.20 0.0089 0.0053

Neptune 28880-07-26 16:05 G 12269471.02 12269471.17 12269471.34 0.0089 0.0043

Mars 28880-09-01 11:45 G 12269507.89 12269507.99 12269508.08 0.1761 0.1160

Neptune 28880-10-22 19:26 G 12269559.14 12269559.31 12269559.47 0.0089 0.0033

Neptune 28881-01-18 22:19 G 12269647.26 12269647.43 12269647.61 0.0089 0.0024

Neptune 28881-04-17 01:26 G 12269735.38 12269735.56 12269735.74 0.0089 0.0014

Venus 28881-04-22 08:24 G 12269740.77 12269740.85 12269740.94 0.3690 0.2786

Neptune 28881-07-14 04:19 G 12269823.50 12269823.68 12269823.86 0.0089 0.0005

Neptune 28881-10-10 07:26 G 12269911.63 12269911.81 12269911.99 0.0089 0.0005

Neptune 28882-01-06 10:19 G 12269999.76 12269999.93 12270000.11 0.0089 0.0015

Neptune 28882-04-04 13:12 G 12270087.88 12270088.05 12270088.23 0.0089 0.0024

Neptune 28882-07-01 16:19 G 12270176.01 12270176.18 12270176.34 0.0089 0.0033

Neptune 28882-09-27 18:57 G 12270264.15 12270264.29 12270264.46 0.0089 0.0043

Venus 28882-11-03 23:31 G 12270301.41 12270301.48 12270301.55 0.3680 0.2789

Neptune 28882-12-24 21:50 G 12270352.28 12270352.41 12270352.57 0.0089 0.0053

Neptune 28883-03-23 00:57 G 12270440.42 12270440.54 12270440.67 0.0089 0.0061

Neptune 28883-06-19 03:36 G 12270528.56 12270528.65 12270528.77 0.0089 0.0071

Neptune 28883-09-15 06:29 G 12270616.71 12270616.77 12270616.86 0.0089 0.0080

Jupiter 28884-01-13 00:43 G 12270736.42 12270736.53 12270736.65 0.0517 0.0249

Jupiter 28884-04-11 07:55 G 12270825.74 12270825.83 12270825.93 0.0514 0.0344

Moon 28886-03-14 11:02 G 12271527.88 12271527.96 12271528.04 0.2658 0.1859

Earth 28886-03-14 11:31 G 12271527.90 12271527.98 12271528.05 0.2664 0.1875 *

Venus 28886-11-06 07:41 G 12271764.70 12271764.82 12271764.95 0.3691 0.0136

Venus 28888-05-19 18:00 G 12272325.14 12272325.25 12272325.36 0.3680 0.0961

Saturn 28890-03-16 05:17 G 12272990.66 12272990.72 12272990.80 0.0296 0.0271

Jupiter 28890-06-10 20:53 G 12273077.20 12273077.37 12273077.54 0.0512 0.0070

Saturn 28890-06-13 04:05 G 12273079.51 12273079.67 12273079.83 0.0296 0.0094

Saturn 28890-09-10 01:55 G 12273168.42 12273168.58 12273168.75 0.0297 0.0080

Saturn 28890-12-07 23:31 G 12273257.39 12273257.48 12273257.57 0.0297 0.0248

Venus 28892-05-22 06:43 G 12273788.69 12273788.78 12273788.87 0.3692 0.2587

Venus 28893-12-03 12:29 G 12274348.91 12274349.02 12274349.13 0.3679 0.0955

Jupiter 28895-11-01 04:05 G 12275046.59 12275046.67 12275046.75 0.0518 0.0406

Uranus 28895-12-26 15:36 G 12275102.15 12275102.15 12275102.17 0.0133 0.0133

Jupiter 28896-01-29 11:02 G 12275135.84 12275135.96 12275136.09 0.0514 0.0184

Uranus 28896-03-23 21:50 G 12275190.31 12275190.41 12275190.50 0.0133 0.0111

Uranus 28896-06-20 03:36 G 12275278.52 12275278.65 12275278.78 0.0133 0.0089

Earth 28896-09-12 12:43 G 12275363.00 12275363.03 12275363.06 0.2667 0.2607

Uranus 28896-09-16 09:21 G 12275366.74 12275366.89 12275367.05 0.0133 0.0067

Uranus 28896-12-13 15:07 G 12275454.97 12275455.13 12275455.30 0.0133 0.0045

Uranus 28897-03-11 20:53 G 12275543.20 12275543.37 12275543.55 0.0133 0.0023

Uranus 28897-06-08 02:38 G 12275631.43 12275631.61 12275631.78 0.0133 0.0002

Uranus 28897-09-04 08:09 G 12275719.67 12275719.84 12275720.02 0.0133 0.0020

Uranus 28897-12-01 13:41 G 12275807.91 12275808.07 12275808.24 0.0133 0.0041

Uranus 28898-02-27 19:12 G 12275896.15 12275896.30 12275896.46 0.0133 0.0062

Uranus 28898-05-27 00:43 G 12275984.40 12275984.53 12275984.67 0.0133 0.0083

Uranus 28898-08-23 06:14 G 12276072.66 12276072.76 12276072.87 0.0133 0.0103

Uranus 28898-11-19 11:31 G 12276160.93 12276160.98 12276161.05 0.0133 0.0124

Moon 28899-03-17 04:48 G 12276278.59 12276278.70 12276278.81 0.2664 0.0639

Earth 28899-03-17 05:31 G 12276278.62 12276278.73 12276278.84 0.2665 0.0468 *

Venus 28899-06-19 07:26 G 12276372.74 12276372.81 12276372.88 0.3678 0.2935

Mars 28900-07-28 16:33 G 12276777.09 12276777.19 12276777.29 0.1794 0.1336

Mars 28901-05-21 19:12 G 12277074.20 12277074.30 12277074.41 0.1745 0.0928

Jupiter 28902-03-30 19:26 G 12277387.14 12277387.31 12277387.48 0.0511 0.0117

Saturn 28904-07-05 17:02 G 12278215.14 12278215.21 12278215.28 0.0264 0.0224

Saturn 28904-10-02 03:50 G 12278303.54 12278303.66 12278303.78 0.0264 0.0130

Saturn 28904-12-29 14:53 G 12278391.98 12278392.12 12278392.26 0.0264 0.0033

Saturn 28905-03-28 01:55 G 12278480.45 12278480.58 12278480.72 0.0264 0.0065

Saturn 28905-06-24 13:26 G 12278568.95 12278569.06 12278569.17 0.0264 0.0163

Saturn 28905-09-21 00:43 G 12278657.53 12278657.53 12278657.54 0.0264 0.0263

Jupiter 28907-11-18 14:53 G 12279445.99 12279446.12 12279446.25 0.0515 0.0034

Moon 28909-09-16 16:19 G 12280114.03 12280114.18 12280114.33 0.2670 0.0023

Earth 28909-09-16 17:31 G 12280114.08 12280114.23 12280114.38 0.2667 0.0084 *

Mars 28909-12-18 19:12 G 12280207.15 12280207.30 12280207.44 0.1786 0.0059

Mars 28910-10-12 03:36 G 12280504.52 12280504.65 12280504.77 0.1753 0.0071

Moon 28912-03-19 23:02 G 12281029.36 12281029.46 12281029.57 0.2668 0.0928

Earth 28912-03-19 23:45 G 12281029.39 12281029.49 12281029.60 0.2665 0.0966 *

Jupiter 28914-01-16 17:02 G 12281697.08 12281697.21 12281697.35 0.0510 0.0318

Pluto 28914-02-14 02:24 G 12281725.57 12281725.60 12281725.67 0.0070 0.0065

Jupiter 28914-04-16 22:19 G 12281787.35 12281787.43 12281787.50 0.0513 0.0455

Pluto 28914-05-13 03:07 G 12281813.56 12281813.63 12281813.72 0.0070 0.0055

Pluto 28914-08-09 03:50 G 12281901.57 12281901.66 12281901.76 0.0070 0.0045

Pluto 28914-11-05 04:19 G 12281989.58 12281989.68 12281989.80 0.0070 0.0036

Pluto 28915-02-01 04:48 G 12282077.59 12282077.70 12282077.83 0.0070 0.0026

Pluto 28915-04-30 05:31 G 12282165.61 12282165.73 12282165.86 0.0070 0.0016

Pluto 28915-07-27 06:14 G 12282253.63 12282253.76 12282253.89 0.0070 0.0006

Pluto 28915-10-23 06:43 G 12282341.65 12282341.78 12282341.91 0.0070 0.0004

Pluto 28916-01-19 07:12 G 12282429.68 12282429.80 12282429.93 0.0070 0.0014

Pluto 28916-04-16 07:55 G 12282517.71 12282517.83 12282517.95 0.0071 0.0024

Pluto 28916-07-13 08:24 G 12282605.74 12282605.85 12282605.97 0.0071 0.0034

Pluto 28916-10-09 09:07 G 12282693.78 12282693.88 12282693.98 0.0071 0.0044

Pluto 28917-01-05 09:36 G 12282781.82 12282781.90 12282781.99 0.0071 0.0054

Pluto 28917-04-03 09:50 G 12282869.88 12282869.91 12282869.98 0.0071 0.0065

Mars 28919-05-10 21:36 G 12283637.31 12283637.40 12283637.49 0.1777 0.1387

Jupiter 28919-09-06 18:57 G 12283756.16 12283756.29 12283756.42 0.0516 0.0110

Saturn 28919-11-01 03:50 G 12283811.51 12283811.66 12283811.82 0.0297 0.0140

Jupiter 28919-12-05 02:24 G 12283845.56 12283845.60 12283845.64 0.0513 0.0485

Saturn 28920-01-29 01:55 G 12283900.41 12283900.58 12283900.76 0.0297 0.0036

Mars 28920-03-03 11:45 G 12283934.89 12283934.99 12283935.09 0.1761 0.1031

Saturn 28920-04-26 23:31 G 12283989.37 12283989.48 12283989.61 0.0297 0.0206

Moon 28922-09-19 21:21 G 12284865.34 12284865.39 12284865.44 0.2673 0.2487

Earth 28922-09-19 22:05 G 12284865.40 12284865.42 12284865.43 0.2666 0.2640 *

Moon 28925-03-22 18:00 G 12285780.21 12285780.25 12285780.30 0.2672 0.2385

Earth 28925-03-22 18:14 G 12285780.22 12285780.26 12285780.30 0.2665 0.2428 *

Jupiter 28926-02-02 20:38 G 12286097.21 12286097.36 12286097.50 0.0512 0.0263

Jupiter 28931-06-25 23:17 G 12288066.35 12288066.47 12288066.58 0.0517 0.0250

Jupiter 28931-09-23 06:29 G 12288155.67 12288155.77 12288155.87 0.0514 0.0344

Moon 28932-03-15 15:50 G 12288330.07 12288330.16 12288330.25 0.2659 0.1683

Earth 28932-03-15 16:19 G 12288330.09 12288330.18 12288330.27 0.2664 0.1582 *

Saturn 28933-11-22 19:26 G 12288947.28 12288947.31 12288947.35 0.0264 0.0252

Saturn 28934-02-19 06:14 G 12289035.65 12289035.76 12289035.87 0.0264 0.0158

Saturn 28934-05-18 17:17 G 12289124.08 12289124.22 12289124.35 0.0264 0.0063

Saturn 28934-08-15 04:19 G 12289212.54 12289212.68 12289212.82 0.0264 0.0035

Saturn 28934-11-11 15:21 G 12289301.02 12289301.14 12289301.27 0.0263 0.0133

Saturn 28935-02-08 02:53 G 12289389.56 12289389.62 12289389.69 0.0263 0.0232

Jupiter 28937-11-21 18:43 G 12290407.11 12290407.28 12290407.46 0.0512 0.0071

Venus 28937-11-28 08:09 G 12290413.72 12290413.84 12290413.95 0.3690 0.1858

Uranus 28938-09-17 08:24 G 12290706.84 12290706.85 12290706.89 0.0145 0.0143

Uranus 28938-12-14 12:43 G 12290794.96 12290795.03 12290795.11 0.0145 0.0121

Uranus 28939-03-12 17:02 G 12290883.11 12290883.21 12290883.31 0.0145 0.0099

Uranus 28939-06-08 21:21 G 12290971.27 12290971.39 12290971.51 0.0145 0.0077

Venus 28939-06-11 21:50 G 12290974.31 12290974.41 12290974.50 0.3680 0.2169

Uranus 28939-09-05 01:26 G 12291059.44 12291059.56 12291059.70 0.0145 0.0055

Uranus 28939-12-02 05:45 G 12291147.61 12291147.74 12291147.88 0.0145 0.0033

Mars 28940-01-27 17:02 G 12291204.14 12291204.21 12291204.29 0.1795 0.1521

Uranus 28940-02-28 10:05 G 12291235.78 12291235.92 12291236.07 0.0145 0.0011

Uranus 28940-05-26 14:38 G 12291323.97 12291324.11 12291324.25 0.0145 0.0013

Uranus 28940-08-22 18:57 G 12291412.15 12291412.29 12291412.43 0.0145 0.0036

Uranus 28940-11-18 23:31 G 12291500.35 12291500.48 12291500.61 0.0145 0.0059

Mars 28940-11-19 19:26 G 12291501.21 12291501.31 12291501.41 0.1745 0.1061

Uranus 28941-02-15 03:36 G 12291588.54 12291588.65 12291588.78 0.0145 0.0083

Uranus 28941-05-14 08:09 G 12291676.75 12291676.84 12291676.95 0.0145 0.0106

Uranus 28941-08-10 12:57 G 12291764.98 12291765.04 12291765.11 0.0145 0.0129

Moon 28942-09-14 17:31 G 12292165.15 12292165.23 12292165.31 0.2666 0.2229

Earth 28942-09-14 19:12 G 12292165.20 12292165.30 12292165.39 0.2667 0.2073 *

Jupiter 28943-04-14 03:21 G 12292376.56 12292376.64 12292376.73 0.0518 0.0389

Venus 28943-06-14 07:12 G 12292437.68 12292437.80 12292437.93 0.3691 0.0866

Jupiter 28943-07-12 10:19 G 12292465.81 12292465.93 12292466.06 0.0515 0.0202

Venus 28944-12-25 16:05 G 12292998.06 12292998.17 12292998.29 0.3680 0.0319

Moon 28945-03-18 09:36 G 12293080.79 12293080.90 12293081.01 0.2664 0.0218

Earth 28945-03-18 10:19 G 12293080.82 12293080.93 12293081.05 0.2665 0.0194 *

Venus 28948-12-28 06:00 G 12294461.71 12294461.75 12294461.79 0.3692 0.3441

Saturn 28949-03-20 00:14 G 12294543.39 12294543.51 12294543.64 0.0296 0.0208

Saturn 28949-06-16 22:33 G 12294632.27 12294632.44 12294632.62 0.0296 0.0033

Mars 28949-06-18 19:41 G 12294634.17 12294634.32 12294634.46 0.1786 0.0162

Jupiter 28949-09-09 17:45 G 12294717.07 12294717.24 12294717.41 0.0511 0.0113

Saturn 28949-09-13 20:24 G 12294721.20 12294721.35 12294721.50 0.0297 0.0139

Mars 28950-04-12 03:21 G 12294931.52 12294931.64 12294931.77 0.1753 0.0103

Venus 28950-07-11 10:48 G 12295021.85 12295021.95 12295022.06 0.3679 0.1631

Jupiter 28955-04-30 13:41 G 12296775.94 12296776.07 12296776.20 0.0515 0.0042

Moon 28955-09-17 22:48 G 12296916.30 12296916.45 12296916.60 0.2672 0.0366

Earth 28955-09-17 23:45 G 12296916.35 12296916.49 12296916.64 0.2667 0.0581 *

Venus 28956-01-25 05:45 G 12297045.72 12297045.74 12297045.76 0.3678 0.3620

Moon 28958-03-21 04:05 G 12297831.57 12297831.67 12297831.78 0.2669 0.1140

Earth 28958-03-21 04:48 G 12297831.60 12297831.70 12297831.80 0.2665 0.1269 *

Mars 28958-11-08 21:50 G 12298064.30 12298064.41 12298064.52 0.1777 0.1223

Mars 28959-09-02 12:00 G 12298361.89 12298362.00 12298362.10 0.1761 0.0889

Neptune 28960-02-22 15:07 G 12298535.10 12298535.13 12298535.18 0.0088 0.0084

Neptune 28960-05-20 16:33 G 12298623.14 12298623.19 12298623.27 0.0088 0.0077

Neptune 28960-08-16 18:00 G 12298711.18 12298711.25 12298711.35 0.0088 0.0070

Neptune 28960-11-12 19:55 G 12298799.23 12298799.33 12298799.42 0.0088 0.0063

Neptune 28961-02-08 21:07 G 12298887.28 12298887.38 12298887.50 0.0088 0.0056

Neptune 28961-05-07 22:48 G 12298975.33 12298975.45 12298975.57 0.0088 0.0048

Jupiter 28961-06-28 16:05 G 12299027.03 12299027.17 12299027.31 0.0510 0.0302

Neptune 28961-08-04 00:14 G 12299063.39 12299063.51 12299063.64 0.0088 0.0041

Jupiter 28961-09-26 21:21 G 12299117.33 12299117.39 12299117.46 0.0513 0.0473

Neptune 28961-10-31 01:41 G 12299151.45 12299151.57 12299151.70 0.0088 0.0034

Neptune 28962-01-27 03:07 G 12299239.50 12299239.63 12299239.77 0.0088 0.0027

Neptune 28962-04-25 04:48 G 12299327.56 12299327.70 12299327.84 0.0088 0.0020

Neptune 28962-07-22 06:14 G 12299415.63 12299415.76 12299415.90 0.0088 0.0013

Neptune 28962-10-18 07:55 G 12299503.69 12299503.83 12299503.97 0.0088 0.0005

Neptune 28963-01-14 09:21 G 12299591.75 12299591.89 12299592.03 0.0088 0.0002

Neptune 28963-04-12 11:02 G 12299679.82 12299679.96 12299680.10 0.0088 0.0010

Saturn 28963-07-09 08:53 G 12299767.78 12299767.87 12299767.97 0.0265 0.0185

Neptune 28963-07-09 12:29 G 12299767.88 12299768.02 12299768.16 0.0088 0.0017 *

Neptune 28963-10-05 13:55 G 12299855.95 12299856.08 12299856.22 0.0088 0.0024

Saturn 28963-10-05 19:55 G 12299856.20 12299856.33 12299856.46 0.0264 0.0090 *

Neptune 28964-01-01 15:36 G 12299944.02 12299944.15 12299944.28 0.0088 0.0031

Saturn 28964-01-02 06:57 G 12299944.65 12299944.79 12299944.93 0.0264 0.0009

Neptune 28964-03-29 16:48 G 12300032.09 12300032.20 12300032.34 0.0088 0.0040

Saturn 28964-03-30 18:00 G 12300033.13 12300033.25 12300033.38 0.0264 0.0106

Neptune 28964-06-25 18:29 G 12300120.16 12300120.27 12300120.40 0.0088 0.0046

Saturn 28964-06-27 05:31 G 12300121.64 12300121.73 12300121.82 0.0264 0.0205

Neptune 28964-09-21 20:09 G 12300208.23 12300208.34 12300208.46 0.0088 0.0054

Neptune 28964-12-18 21:36 G 12300296.31 12300296.40 12300296.51 0.0088 0.0061

Neptune 28965-03-16 23:17 G 12300384.39 12300384.47 12300384.57 0.0088 0.0068

Neptune 28965-06-13 00:43 G 12300472.47 12300472.53 12300472.61 0.0088 0.0076

Neptune 28965-09-09 02:24 G 12300560.57 12300560.60 12300560.65 0.0088 0.0083

Jupiter 28967-02-16 17:17 G 12301086.10 12301086.22 12301086.35 0.0516 0.0109

Jupiter 28967-05-17 00:43 G 12301175.49 12301175.53 12301175.57 0.0513 0.0486

Jupiter 28973-04-16 13:26 G 12303337.05 12303337.06 12303337.09 0.0509 0.0504

Jupiter 28973-07-15 19:12 G 12303427.16 12303427.30 12303427.45 0.0512 0.0275

Moon 28978-03-16 20:24 G 12305132.26 12305132.35 12305132.45 0.2661 0.1361

Earth 28978-03-16 21:07 G 12305132.28 12305132.38 12305132.48 0.2664 0.1293 *

Saturn 28978-08-07 00:43 G 12305275.44 12305275.53 12305275.62 0.0297 0.0250

Saturn 28978-11-03 23:02 G 12305364.30 12305364.46 12305364.63 0.0297 0.0074

Jupiter 28978-12-05 21:21 G 12305396.27 12305396.39 12305396.50 0.0517 0.0253

Saturn 28979-01-31 21:07 G 12305453.22 12305453.38 12305453.54 0.0297 0.0100

Jupiter 28979-03-05 04:33 G 12305485.59 12305485.69 12305485.79 0.0514 0.0340

Saturn 28979-04-30 18:29 G 12305542.21 12305542.27 12305542.35 0.0297 0.0269

Mars 28979-07-28 17:31 G 12305631.19 12305631.23 12305631.28 0.1795 0.1702

Uranus 28980-01-16 23:17 G 12305803.43 12305803.47 12305803.55 0.0133 0.0126

Uranus 28980-04-14 05:31 G 12305891.62 12305891.73 12305891.85 0.0133 0.0103

Mars 28980-05-20 19:26 G 12305928.22 12305928.31 12305928.40 0.1745 0.1194

Uranus 28980-07-11 11:17 G 12305979.84 12305979.97 12305980.12 0.0133 0.0081

Uranus 28980-10-07 17:17 G 12306068.06 12306068.22 12306068.38 0.0133 0.0059

Uranus 28981-01-03 23:02 G 12306156.29 12306156.46 12306156.63 0.0133 0.0037

Uranus 28981-04-02 04:48 G 12306244.52 12306244.70 12306244.87 0.0133 0.0015

Uranus 28981-06-29 10:33 G 12306332.76 12306332.94 12306333.11 0.0133 0.0007

Uranus 28981-09-25 16:05 G 12306421.00 12306421.17 12306421.34 0.0133 0.0028

Uranus 28981-12-22 21:36 G 12306509.24 12306509.40 12306509.56 0.0133 0.0049

Uranus 28982-03-21 03:07 G 12306597.49 12306597.63 12306597.78 0.0133 0.0070

Uranus 28982-06-17 08:24 G 12306685.74 12306685.85 12306685.99 0.0133 0.0091

Uranus 28982-09-13 14:09 G 12306774.00 12306774.09 12306774.18 0.0133 0.0112

Uranus 28982-12-10 19:26 G 12306862.30 12306862.31 12306862.33 0.0133 0.0132

Jupiter 28985-05-03 17:17 G 12307737.05 12307737.22 12307737.39 0.0511 0.0080

Moon 28988-09-15 00:00 G 12308967.39 12308967.50 12308967.61 0.2668 0.1749

Earth 28988-09-15 01:26 G 12308967.44 12308967.56 12308967.68 0.2667 0.1548 *

Mars 28988-12-17 20:09 G 12309061.19 12309061.34 12309061.48 0.1786 0.0338

Mars 28989-10-11 03:36 G 12309358.53 12309358.65 12309358.78 0.1753 0.0219

Venus 28990-07-03 01:41 G 12309623.52 12309623.57 12309623.61 0.3681 0.3352

Jupiter 28990-09-24 01:41 G 12309706.48 12309706.57 12309706.65 0.0518 0.0393

Jupiter 28990-12-22 08:38 G 12309795.74 12309795.86 12309795.98 0.0515 0.0197

Moon	**28991-03-19 14:38**	**G**	**12309882.99**	**12309883.11**	**12309883.22**	**0.2665**	**0.0107**	
Earth	**28991-03-19 15:21**	**G**	**12309883.02**	**12309883.14**	**12309883.25**	**0.2665**	**0.0141**	*
Saturn	**28992-11-25 11:31**	**G**	**12310499.91**	**12310499.98**	**12310500.07**	**0.0264**	**0.0211**	
Saturn	**28993-02-21 22:33**	**G**	**12310588.31**	**12310588.44**	**12310588.56**	**0.0264**	**0.0116**	
Saturn	**28993-05-21 09:36**	**G**	**12310676.76**	**12310676.90**	**12310677.03**	**0.0264**	**0.0021**	
Saturn	**28993-08-17 20:38**	**G**	**12310765.23**	**12310765.36**	**12310765.49**	**0.0264**	**0.0078**	
Saturn	**28993-11-14 07:55**	**G**	**12310853.73**	**12310853.83**	**12310853.93**	**0.0264**	**0.0177**	
Venus	**28994-07-05 07:41**	**G**	**12311086.69**	**12311086.82**	**12311086.94**	**0.3691**	**0.0952**	
Venus	**28996-01-16 19:55**	**G**	**12311647.22**	**12311647.33**	**12311647.43**	**0.3680**	**0.1544**	
Jupiter	**28997-02-19 15:21**	**G**	**12312046.97**	**12312047.14**	**12312047.31**	**0.0511**	**0.0117**	
Mars	**28998-05-09 22:19**	**G**	**12312491.31**	**12312491.43**	**12312491.55**	**0.1778**	**0.1038**	
Mars	**28999-03-03 11:45**	**G**	**12312788.88**	**12312788.99**	**12312789.11**	**0.1761**	**0.0770**	
Venus	**29000-01-19 06:43**	**G**	**12313110.67**	**12313110.78**	**12313110.89**	**0.3692**	**0.1747**	
Pluto	**29000-03-25 04:33**	**G**	**12313175.59**	**12313175.69**	**12313175.82**	**0.0074**	**0.0060**	
Pluto	**29000-06-21 07:26**	**G**	**12313263.65**	**12313263.81**	**12313263.98**	**0.0074**	**0.0042**	
Pluto	**29000-09-17 09:50**	**G**	**12313351.74**	**12313351.91**	**12313352.11**	**0.0074**	**0.0025**	
Pluto	**29000-12-14 12:43**	**G**	**12313439.83**	**12313440.03**	**12313440.23**	**0.0074**	**0.0007**	

30TH MILLENNIUM CE

This is a list of transits of Mercury in the 30th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Pluto	**29001-03-12 15:07**	**G**	**12313527.94**	**12313528.13**	**12313528.34**	**0.0074**	**0.0011**	
Pluto	**29001-06-08 17:31**	**G**	**12313616.06**	**12313616.23**	**12313616.43**	**0.0074**	**0.0029**	

Venus 29001-08-02 14:24 G 12313670.99 12313671.10 12313671.21 0.3680 0.0345

Pluto 29001-09-04 19:55 G 12313704.20 12313704.33 12313704.51 0.0073 0.0046

Moon 29001-09-19 05:02 G 12313718.58 12313718.71 12313718.85 0.2672 0.1032

Earth 29001-09-19 06:14 G 12313718.62 12313718.76 12313718.90 0.2667 0.1093 *

Pluto 29001-12-01 22:33 G 12313792.35 12313792.44 12313792.56 0.0073 0.0063

Jupiter 29002-10-11 12:43 G 12314105.90 12314106.03 12314106.16 0.0515 0.0055

Moon 29004-03-22 09:07 G 12314633.79 12314633.88 12314633.97 0.2671 0.1577

Earth 29004-03-22 09:36 G 12314633.81 12314633.90 12314633.99 0.2665 0.1566 *

Venus 29007-02-16 09:07 G 12315694.79 12315694.88 12315694.97 0.3679 0.2298

Saturn 29008-03-23 20:24 G 12316096.20 12316096.35 12316096.50 0.0296 0.0136

Saturn 29008-06-20 18:29 G 12316185.10 12316185.27 12316185.44 0.0296 0.0039

Mars 29008-07-24 20:09 G 12316219.33 12316219.34 12316219.36 0.1769 0.1742

Saturn 29008-09-17 16:05 G 12316274.06 12316274.17 12316274.30 0.0297 0.0209

Jupiter 29008-12-09 13:55 G 12316356.94 12316357.08 12316357.22 0.0510 0.0303

Jupiter 29009-03-09 19:12 G 12316447.24 12316447.30 12316447.37 0.0513 0.0473

Moon 29011-03-16 07:41 G 12317183.78 12317183.82 12317183.87 0.2657 0.2427

Earth 29011-03-16 07:55 G 12317183.78 12317183.83 12317183.88 0.2664 0.2396 *

Jupiter 29014-07-30 16:05 G 12318416.04 12318416.17 12318416.30 0.0516 0.0102

Jupiter 29014-10-27 23:17 G 12318505.44 12318505.47 12318505.51 0.0513 0.0491

Mars 29019-11-20 19:41 G 12320355.24 12320355.32 12320355.40 0.1745 0.1336

Jupiter 29020-09-27 12:14 G 12320666.97 12320667.01 12320667.05 0.0510 0.0495

Jupiter 29020-12-26 18:00 G 12320757.11 12320757.25 12320757.39 0.0513 0.0286

Saturn 29022-04-15 14:24 G 12321232.04 12321232.10 12321232.16 0.0265 0.0238

Saturn 29022-07-13 01:12 G 12321320.43 12321320.55 12321320.67 0.0265 0.0143

Uranus 29022-10-08 16:05 G 12321408.13 12321408.17 12321408.22 0.0145 0.0136

Saturn 29022-10-09 12:14 G 12321408.87 12321409.01 12321409.14 0.0264 0.0047

Uranus 29023-01-04 20:09 G 12321496.27 12321496.34 12321496.43 0.0145 0.0115

Saturn 29023-01-05 23:17 G 12321497.33 12321497.47 12321497.61 0.0264 0.0052

Uranus 29023-04-03 00:29 G 12321584.42 12321584.52 12321584.63 0.0145 0.0093

Saturn 29023-04-04 10:33 G 12321585.82 12321585.94 12321586.05 0.0264 0.0151

Uranus 29023-06-30 04:33 G 12321672.58 12321672.69 12321672.82 0.0145 0.0071

Saturn 29023-07-01 21:50 G 12321674.38 12321674.41 12321674.46 0.0264 0.0251

Uranus 29023-09-26 09:07 G 12321760.75 12321760.88 12321761.01 0.0145 0.0048

Uranus 29023-12-23 13:26 G 12321848.92 12321849.06 12321849.20 0.0145 0.0026

Moon 29024-03-18 01:12 G 12321934.45 12321934.55 12321934.65 0.2662 0.1098

Earth 29024-03-18 01:55 G 12321934.48 12321934.58 12321934.69 0.2664 0.1002 *

Uranus 29024-03-20 17:45 G 12321937.10 12321937.24 12321937.38 0.0145 0.0004

Uranus 29024-06-16 22:05 G 12322025.28 12322025.42 12322025.56 0.0145 0.0019

Uranus 29024-09-13 02:24 G 12322113.47 12322113.60 12322113.74 0.0145 0.0043

Uranus 29024-12-10 06:57 G 12322201.66 12322201.79 12322201.92 0.0145 0.0066

Uranus 29025-03-08 11:17 G 12322289.86 12322289.97 12322290.09 0.0145 0.0089

Uranus 29025-06-04 15:50 G 12322378.07 12322378.16 12322378.25 0.0145 0.0112

Uranus 29025-08-31 20:09 G 12322466.31 12322466.34 12322466.40 0.0145 0.0137

Jupiter 29026-05-18 19:55 G 12322726.21 12322726.33 12322726.44 0.0517 0.0252

Jupiter 29026-08-16 02:53 G 12322815.52 12322815.62 12322815.72 0.0514 0.0340

Mars 29028-06-18 20:24 G 12323488.21 12323488.35 12323488.49 0.1787 0.0502

Mars 29029-04-12 03:50 G 12323785.53 12323785.66 12323785.78 0.1752 0.0355

Jupiter 29032-10-14 15:36 G 12325066.98 12325067.15 12325067.32 0.0511 0.0086

Moon 29034-09-17 06:29 G 12325769.64 12325769.77 12325769.90 0.2670 0.1236

Earth 29034-09-17 07:55 G 12325769.69 12325769.83 12325769.97 0.2667 0.1022 *

Moon 29037-03-20 19:26 G 12326685.20 12326685.31 12326685.42 0.2666 0.0362

Earth 29037-03-20 20:09 G 12326685.23 12326685.34 12326685.45 0.2664 0.0420 *

Saturn 29037-08-10 21:07 G 12326828.25 12326828.38 12326828.53 0.0297 0.0175

Saturn 29037-11-07 19:41 G 12326917.14 12326917.32 12326917.49 0.0297 0.0008

Mars 29037-11-08 23:02 G 12326918.33 12326918.46 12326918.59 0.1778 0.0851

Saturn 29038-02-04 17:17 G 12327006.09 12327006.22 12327006.36 0.0297 0.0173

Jupiter 29038-03-06 23:45 G 12327036.41 12327036.49 12327036.57 0.0518 0.0398

Jupiter 29038-06-04 06:43 G 12327125.66 12327125.78 12327125.90 0.0515 0.0192

Mars 29038-09-02 12:00 G 12327215.88 12327216.00 12327216.12 0.1760 0.0632

Neptune 29044-05-07 01:12 G 12329289.50 12329289.55 12329289.64 0.0089 0.0081

Jupiter 29044-08-02 13:41 G 12329376.90 12329377.07 12329377.24 0.0511 0.0112

Neptune 29044-08-03 04:19 G 12329377.59 12329377.68 12329377.81 0.0089 0.0071

Neptune 29044-10-30 07:41 G 12329465.70 12329465.82 12329465.96 0.0089 0.0061

Neptune 29045-01-26 10:48 G 12329553.81 12329553.95 12329554.11 0.0089 0.0051

Neptune 29045-04-24 13:41 G 12329641.93 12329642.07 12329642.25 0.0089 0.0042

Neptune 29045-07-21 17:02 G 12329730.04 12329730.21 12329730.38 0.0089 0.0032

Venus 29045-07-27 07:41 G 12329735.73 12329735.82 12329735.90 0.3690 0.2820

Neptune 29045-10-17 20:09 G 12329818.17 12329818.34 12329818.51 0.0089 0.0022

Neptune 29046-01-13 23:02 G 12329906.29 12329906.46 12329906.65 0.0089 0.0013

Neptune 29046-04-12 02:09 G 12329994.41 12329994.59 12329994.77 0.0089 0.0003

Neptune 29046-07-09 05:02 G 12330082.54 12330082.71 12330082.90 0.0089 0.0007

Neptune 29046-10-05 08:09 G 12330170.67 12330170.84 12330171.02 0.0089 0.0016

Neptune 29047-01-01 11:02 G 12330258.80 12330258.96 12330259.14 0.0089 0.0026

Venus 29047-02-07 23:45 G 12330296.41 12330296.49 12330296.56 0.3680 0.2747

Neptune 29047-03-30 13:55 G 12330346.93 12330347.08 12330347.25 0.0089 0.0035

Neptune 29047-06-26 17:02 G 12330435.06 12330435.21 12330435.37 0.0089 0.0044

Moon 29047-09-20 11:31 G 12330520.86 12330520.98 12330521.11 0.2672 0.1447

Earth 29047-09-20 12:29 G 12330520.90 12330521.02 12330521.14 0.2667 0.1602 *

Neptune 29047-09-22 19:41 G 12330523.20 12330523.32 12330523.48 0.0089 0.0054

Neptune 29047-12-19 22:48 G 12330611.33 12330611.45 12330611.58 0.0089 0.0063

Mars 29048-01-23 20:24 G 12330646.30 12330646.35 12330646.39 0.1768 0.1612

Neptune 29048-03-17 01:55 G 12330699.48 12330699.58 12330699.68 0.0089 0.0072

Neptune 29048-06-13 04:19 G 12330787.63 12330787.68 12330787.77 0.0089 0.0082

Jupiter 29050-03-23 10:48 G 12331435.82 12331435.95 12331436.08 0.0516 0.0048

Moon 29050-03-23 14:09 G 12331436.01 12331436.09 12331436.17 0.2671 0.1758 *

Earth 29050-03-23 14:24 G 12331436.02 12331436.10 12331436.18 0.2665 0.1868 *

Venus 29051-02-10 07:12 G 12331759.67 12331759.80 12331759.92 0.3691 0.0137

Saturn 29051-09-02 17:31 G 12331964.21 12331964.23 12331964.25 0.0264 0.0260

Saturn 29051-11-30 04:05 G 12332052.57 12332052.67 12332052.78 0.0264 0.0166

Saturn 29052-02-26 15:07 G 12332141.00 12332141.13 12332141.27 0.0264 0.0069

Saturn 29052-05-25 02:09 G 12332229.45 12332229.59 12332229.73 0.0264 0.0028

Saturn 29052-08-21 13:26 G 12332317.94 12332318.06 12332318.18 0.0264 0.0127

Venus 29052-08-23 18:00 G 12332320.14 12332320.25 12332320.36 0.3680 0.0911

Saturn 29052-11-18 00:43 G 12332406.46 12332406.53 12332406.61 0.0264 0.0226

Jupiter 29056-05-21 11:17 G 12333686.83 12333686.97 12333687.11 0.0510 0.0311

Jupiter 29056-08-19 16:33 G 12333777.12 12333777.19 12333777.26 0.0513 0.0463

Venus 29056-08-26 06:00 G 12333783.66 12333783.75 12333783.84 0.3692 0.2607

Moon 29057-03-16 12:29 G 12333985.95 12333986.02 12333986.09 0.2658 0.2101

Earth 29057-03-16 12:43 G 12333985.97 12333986.03 12333986.10 0.2664 0.2106 *

Venus 29058-03-09 12:43 G 12334343.92 12334344.03 12334344.14 0.3679 0.1007

Mars 29059-05-21 19:41 G 12334782.25 12334782.32 12334782.39 0.1744 0.1466

Jupiter 29062-01-09 14:53 G 12335745.99 12335746.12 12335746.25 0.0516 0.0095

Jupiter 29062-04-08 22:05 G 12335835.40 12335835.42 12335835.46 0.0513 0.0499

Venus 29063-09-23 07:26 G 12336367.75 12336367.81 12336367.88 0.3679 0.2988

Uranus 29064-02-07 07:26 G 12336504.73 12336504.81 12336504.90 0.0133 0.0116

Uranus 29064-05-05 13:12 G 12336592.94 12336593.05 12336593.19 0.0133 0.0095

Uranus 29064-08-01 19:12 G 12336681.16 12336681.30 12336681.45 0.0133 0.0072

Uranus 29064-10-29 00:57 G 12336769.39 12336769.54 12336769.71 0.0133 0.0050

Uranus 29065-01-25 06:57 G 12336857.62 12336857.79 12336857.96 0.0133 0.0028

Uranus 29065-04-23 12:43 G 12336945.85 12336946.03 12336946.20 0.0133 0.0007

Uranus 29065-07-20 18:14 G 12337034.09 12337034.26 12337034.44 0.0133 0.0015

Uranus 29065-10-17 00:00 G 12337122.33 12337122.50 12337122.67 0.0133 0.0036

Uranus 29066-01-13 05:31 G 12337210.58 12337210.73 12337210.89 0.0133 0.0058

Uranus 29066-04-11 11:02 G 12337298.82 12337298.96 12337299.10 0.0133 0.0079

Uranus 29066-07-08 16:33 G 12337387.08 12337387.19 12337387.30 0.0133 0.0099

Uranus 29066-10-04 21:50 G 12337475.35 12337475.41 12337475.49 0.0133 0.0120

Saturn 29066-12-28 19:12 G 12337560.19 12337560.30 12337560.40 0.0296 0.0232

Saturn 29067-03-27 17:31 G 12337649.06 12337649.23 12337649.40 0.0296 0.0056

Saturn 29067-06-24 15:21 G 12337737.99 12337738.14 12337738.30 0.0296 0.0117

Saturn 29067-09-21 12:43 G 12337827.00 12337827.03 12337827.08 0.0297 0.0286

Mars 29067-12-18 20:53 G 12337915.24 12337915.37 12337915.51 0.1787 0.0695

Jupiter 29068-03-09 09:36 G 12337996.88 12337996.90 12337996.93 0.0509 0.0501

Jupiter 29068-06-07 15:21 G 12338087.00 12338087.14 12338087.29 0.0512 0.0281

Mars 29068-10-11 03:50 G 12338212.54 12338212.66 12338212.78 0.1752 0.0483

Moon 29070-03-19 06:00 G 12338736.65 12338736.75 12338736.86 0.2662 0.0832

Earth 29070-03-19 06:43 G 12338736.68 12338736.78 12338736.89 0.2664 0.0720 *

Jupiter 29073-10-28 18:29 G 12340056.15 12340056.27 12340056.38 0.0517 0.0249

Jupiter 29074-01-26 01:26 G 12340145.46 12340145.56 12340145.66 0.0514 0.0342

Mars 29077-05-09 23:17 G 12341345.33 12341345.47 12341345.60 0.1778 0.0693

Mars 29078-03-03 12:14 G 12341642.89 12341643.01 12341643.13 0.1760 0.0493

Jupiter 29080-03-26 13:55 G 12342396.91 12342397.08 12342397.25 0.0512 0.0091

Moon 29080-09-17 12:43 G 12342571.89 12342572.03 12342572.18 0.2671 0.0612

Earth 29080-09-17 14:09 G 12342571.94 12342572.09 12342572.24 0.2667 0.0501 *

Saturn 29081-04-18 06:57 G 12342784.70 12342784.79 12342784.88 0.0265 0.0193

Saturn 29081-07-15 17:45 G 12342873.11 12342873.24 12342873.37 0.0265 0.0097

Saturn 29081-10-12 04:48 G 12342961.56 12342961.70 12342961.84 0.0265 0.0005

Saturn 29082-01-08 16:05 G 12343050.04 12343050.17 12343050.30 0.0264 0.0100

Saturn 29082-04-07 03:21 G 12343138.55 12343138.64 12343138.73 0.0264 0.0199

Moon 29083-03-22 00:29 G 12343487.41 12343487.52 12343487.63 0.2668 0.0614

Earth 29083-03-22 00:57 G 12343487.43 12343487.54 12343487.65 0.2664 0.0719 *

Jupiter 29085-08-16 22:05 G 12344366.34 12344366.42 12344366.51 0.0517 0.0398

Jupiter 29085-11-14 05:02 G 12344455.59 12344455.71 12344455.84 0.0514 0.0190

Mars 29087-07-24 20:24 G 12345073.28 12345073.35 12345073.42 0.1768 0.1478

Jupiter 29092-01-13 11:31 G 12346706.81 12346706.98 12346707.15 0.0511 0.0111

Moon 29093-09-20 18:14 G 12347323.16 12347323.26 12347323.35 0.2672 0.2045

Earth 29093-09-20 18:43 G 12347323.19 12347323.28 12347323.37 0.2667 0.2111 *

Moon 29096-03-23 18:57 G 12348238.23 12348238.29 12348238.36 0.2671 0.2179

Earth 29096-03-23 19:26 G 12348238.24 12348238.31 12348238.37 0.2665 0.2166 *

Saturn 29096-05-16 20:24 G 12348292.28 12348292.35 12348292.43 0.0296 0.0266

Saturn 29096-08-13 18:57 G 12348381.13 12348381.29 12348381.46 0.0297 0.0089

Saturn 29096-11-10 17:02 G 12348470.05 12348470.21 12348470.38 0.0297 0.0085

Saturn 29097-02-07 14:38 G 12348559.03 12348559.11 12348559.20 0.0297 0.0255

Jupiter 29097-09-02 08:38 G 12348765.73 12348765.86 12348766.00 0.0516 0.0042

Mars 29098-11-19 19:41 G 12349209.28 12349209.32 12349209.37 0.1744 0.1601

Venus 29102-03-04 07:12 G 12350408.69 12350408.80 12350408.91 0.3691 0.1878

Moon 29103-03-18 17:17 G 12350788.14 12350788.22 12350788.29 0.2659 0.1932

Earth 29103-03-18 17:31 G 12350788.15 12350788.23 12350788.32 0.2664 0.1816 *

Venus 29103-09-15 21:50 G 12350969.32 12350969.41 12350969.51 0.3680 0.2121

Jupiter 29103-11-02 09:07 G 12351016.75 12351016.88 12351017.03 0.0510 0.0310

Jupiter 29104-01-31 14:38 G 12351107.04 12351107.11 12351107.18 0.0513 0.0465

Uranus 29106-10-29 23:02 G 12352109.42 12352109.46 12352109.53 0.0145 0.0132

Uranus 29107-01-26 03:21 G 12352197.56 12352197.64 12352197.74 0.0145 0.0110

Uranus 29107-04-24 07:41 G 12352285.71 12352285.82 12352285.93 0.0145 0.0088

Mars 29107-06-19 21:21 G 12352342.26 12352342.39 12352342.52 0.1787 0.0862

Uranus 29107-07-21 11:45 G 12352373.87 12352373.99 12352374.12 0.0145 0.0066

Venus 29107-09-18 06:29 G 12352432.65 12352432.77 12352432.90 0.3691 0.0878

Uranus 29107-10-17 16:05 G 12352462.04 12352462.17 12352462.31 0.0145 0.0044

Uranus 29108-01-13 20:24 G 12352550.21 12352550.35 12352550.49 0.0145 0.0021

Uranus 29108-04-11 00:43 G 12352638.39 12352638.53 12352638.68 0.0145 0.0004

Mars 29108-04-12 03:50 G 12352639.55 12352639.66 12352639.78 0.1752 0.0621

Uranus 29108-07-08 05:02 G 12352726.57 12352726.71 12352726.86 0.0145 0.0025

Uranus 29108-10-04 09:36 G 12352814.76 12352814.90 12352815.03 0.0145 0.0047

Uranus 29108-12-31 13:55 G 12352902.96 12352903.08 12352903.21 0.0145 0.0070

Uranus 29109-03-29 18:29 G 12352991.16 12352991.27 12352991.38 0.0145 0.0094

Venus 29109-03-31 16:19 G 12352993.07 12352993.18 12352993.30 0.3680 0.0255

Jupiter 29109-06-22 12:43 G 12353075.90 12353076.03 12353076.16 0.0517 0.0104

Uranus 29109-06-25 22:48 G 12353079.38 12353079.45 12353079.54 0.0145 0.0117

Jupiter 29109-09-19 20:09 G 12353165.30 12353165.34 12353165.38 0.0513 0.0490

Uranus 29109-09-22 03:36 G 12353167.62 12353167.65 12353167.68 0.0145 0.0140

Saturn 29110-09-06 10:19 G 12353516.85 12353516.93 12353517.01 0.0264 0.0213

Saturn 29110-12-03 21:07 G 12353605.26 12353605.38 12353605.51 0.0264 0.0117

Saturn 29111-03-02 08:09 G 12353693.70 12353693.84 12353693.98 0.0264 0.0020

Saturn 29111-05-29 19:12 G 12353782.17 12353782.30 12353782.44 0.0264 0.0079

Saturn 29111-08-26 06:29 G 12353870.67 12353870.77 12353870.88 0.0264 0.0178

Venus 29113-04-03 05:17 G 12354456.68 12354456.72 12354456.76 0.3692 0.3470

Venus 29114-10-15 11:02 G 12355016.86 12355016.96 12355017.06 0.3679 0.1682

Jupiter 29115-11-19 12:29 G 12355416.88 12355417.02 12355417.17 0.0512 0.0268

Moon 29116-03-20 11:02 G 12355538.85 12355538.96 12355539.07 0.2662 0.0484

Earth 29116-03-20 11:45 G 12355538.88 12355538.99 12355539.10 0.2664 0.0413 *

Mars 29116-11-09 00:00 G 12355772.35 12355772.50 12355772.64 0.1778 0.0499

Mars 29117-09-02 12:14 G 12356069.89 12356070.01 12356070.13 0.1760 0.0366

Jupiter 29121-04-10 16:48 G 12357386.09 12357386.20 12357386.32 0.0517 0.0247

Jupiter 29121-07-09 00:00 G 12357475.40 12357475.50 12357475.60 0.0514 0.0345

Neptune 29124-11-20 14:24 G 12358706.06 12358706.10 12358706.15 0.0088 0.0083

Neptune 29125-02-16 15:50 G 12358794.10 12358794.16 12358794.23 0.0088 0.0076

Neptune 29125-05-15 17:17 G 12358882.14 12358882.22 12358882.31 0.0088 0.0069

Neptune 29125-08-11 18:43 G 12358970.19 12358970.28 12358970.39 0.0088 0.0062

Neptune 29125-11-07 20:09 G 12359058.24 12359058.34 12359058.46 0.0088 0.0055

Saturn 29126-01-01 17:17 G 12359113.07 12359113.22 12359113.38 0.0296 0.0144

Neptune 29126-02-03 21:36 G 12359146.29 12359146.40 12359146.53 0.0088 0.0048

Saturn 29126-03-31 15:36 G 12359201.98 12359202.15 12359202.32 0.0296 0.0031

Neptune 29126-05-02 23:02 G 12359234.35 12359234.46 12359234.60 0.0088 0.0041

Saturn 29126-06-28 13:12 G 12359290.93 12359291.05 12359291.18 0.0296 0.0202

Neptune 29126-07-30 00:43 G 12359322.41 12359322.53 12359322.66 0.0088 0.0033

Moon 29126-09-19 19:12 G 12359374.15 12359374.30 12359374.45 0.2671 0.0238

Earth 29126-09-19 20:24 G 12359374.20 12359374.35 12359374.50 0.2667 0.0051 *

Neptune 29126-10-26 02:24 G 12359410.47 12359410.60 12359410.73 0.0088 0.0026

Neptune 29127-01-22 03:50 G 12359498.53 12359498.66 12359498.80 0.0088 0.0018

Mars 29127-01-23 20:24 G 12359500.27 12359500.35 12359500.43 0.1768 0.1350

Neptune 29127-04-20 05:17 G 12359586.59 12359586.72 12359586.86 0.0088 0.0011

Neptune 29127-07-17 06:57 G 12359674.65 12359674.79 12359674.93 0.0088 0.0004

Jupiter 29127-09-07 11:17 G 12359726.80 12359726.97 12359727.14 0.0512 0.0082

Neptune 29127-10-13 08:24 G 12359762.71 12359762.85 12359762.99 0.0088 0.0004

Neptune 29128-01-09 09:50 G 12359850.78 12359850.91 12359851.06 0.0088 0.0011

Neptune 29128-04-06 11:31 G 12359938.84 12359938.98 12359939.12 0.0088 0.0018

Neptune 29128-07-03 12:57 G 12360026.91 12360027.04 12360027.18 0.0088 0.0025

Neptune 29128-09-29 14:38 G 12360114.98 12360115.11 12360115.24 0.0088 0.0033

Neptune 29128-12-26 16:05 G 12360203.05 12360203.17 12360203.30 0.0088 0.0040

Moon 29129-03-23 05:17 G 12360289.62 12360289.72 12360289.83 0.2669 0.0927

Earth 29129-03-23 06:00 G 12360289.64 12360289.75 12360289.85 0.2664 0.1013 *

Neptune 29129-03-24 17:31 G 12360291.12 12360291.23 12360291.36 0.0088 0.0048

Neptune 29129-06-20 18:57 G 12360379.19 12360379.29 12360379.41 0.0088 0.0055

Neptune 29129-09-16 20:38 G 12360467.27 12360467.36 12360467.47 0.0088 0.0062

Neptune 29129-12-13 22:19 G 12360555.35 12360555.43 12360555.52 0.0088 0.0070

Neptune 29130-03-11 23:45 G 12360643.43 12360643.49 12360643.57 0.0088 0.0077

Neptune 29130-06-08 01:26 G 12360731.53 12360731.56 12360731.60 0.0088 0.0085

Jupiter 29133-01-27 20:38 G 12361696.27 12361696.36 12361696.44 0.0517 0.0397

Jupiter 29133-04-27 03:21 G 12361785.52 12361785.64 12361785.77 0.0514 0.0192

Mars 29138-05-21 19:55 G 12363636.33 12363636.33 12363636.33 0.1744 0.1744

Jupiter 29139-06-26 09:21 G 12364036.72 12364036.89 12364037.06 0.0511 0.0111

Moon 29139-09-23 00:43 G 12364125.50 12364125.53 12364125.56 0.2673 0.2614

Earth 29139-09-23 00:57 G 12364125.52 12364125.54 12364125.57 0.2667 0.2610 *

Saturn 29140-01-24 12:57 G 12364248.99 12364249.04 12364249.10 0.0265 0.0240

Saturn 29140-04-21 23:45 G 12364337.38 12364337.49 12364337.61 0.0265 0.0145

Saturn 29140-07-19 10:48 G 12364425.81 12364425.95 12364426.09 0.0265 0.0048

Saturn 29140-10-15 21:50 G 12364514.28 12364514.41 12364514.55 0.0265 0.0051

Saturn 29141-01-12 09:07 G 12364602.77 12364602.88 12364603.00 0.0264 0.0150

Saturn 29141-04-10 20:24 G 12364691.32 12364691.35 12364691.40 0.0264 0.0252

Moon 29142-03-26 00:00 G 12365040.46 12365040.50 12365040.55 0.2671 0.2422

Earth 29142-03-26 00:14 G 12365040.47 12365040.51 12365040.55 0.2665 0.2464 *

Jupiter 29145-02-13 07:12 G 12366095.66 12366095.80 12366095.93 0.0515 0.0041

Mars 29146-12-18 21:50 G 12366769.29 12366769.41 12366769.53 0.1787 0.1042

Mars 29147-10-12 04:05 G 12367066.56 12367066.67 12367066.78 0.1752 0.0762

Uranus 29147-12-02 09:07 G 12367117.86 12367117.88 12367117.90 0.0134 0.0132

Uranus 29148-02-28 14:53 G 12367206.03 12367206.12 12367206.23 0.0134 0.0110

Uranus 29148-05-26 20:38 G 12367294.24 12367294.36 12367294.51 0.0133 0.0088

Uranus 29148-08-23 02:38 G 12367382.46 12367382.61 12367382.77 0.0133 0.0065

Uranus 29148-11-19 08:24 G 12367470.69 12367470.85 12367471.03 0.0133 0.0044

Uranus 29149-02-15 14:24 G 12367558.93 12367559.10 12367559.27 0.0133 0.0021

Moon 29149-03-18 21:50 G 12367590.32 12367590.41 12367590.50 0.2659 0.1537

Earth 29149-03-18 22:33 G 12367590.35 12367590.44 12367590.53 0.2664 0.1526 *

Uranus 29149-05-14 20:09 G 12367647.17 12367647.34 12367647.52 0.0133 0.0001

Uranus 29149-08-11 01:55 G 12367735.41 12367735.58 12367735.75 0.0133 0.0022

Uranus 29149-11-07 07:26 G 12367823.65 12367823.81 12367823.98 0.0133 0.0044

Uranus 29150-02-03 12:57 G 12367911.90 12367912.04 12367912.20 0.0133 0.0065

Uranus 29150-05-02 18:29 G 12368000.15 12368000.27 12368000.41 0.0133 0.0086

Uranus 29150-07-30 00:14 G 12368088.41 12368088.51 12368088.61 0.0133 0.0107

Uranus 29150-10-26 05:31 G 12368176.69 12368176.73 12368176.78 0.0133 0.0127

Jupiter 29151-04-14 06:57 G 12368346.65 12368346.79 12368346.93 0.0510 0.0313

Jupiter 29151-07-13 12:14 G 12368436.94 12368437.01 12368437.09 0.0513 0.0463

Venus 29154-10-07 01:55 G 12369618.53 12369618.58 12369618.62 0.3681 0.3308

Saturn 29155-05-21 18:57 G 12369845.15 12369845.29 12369845.43 0.0296 0.0176

Saturn 29155-08-18 17:17 G 12369934.05 12369934.22 12369934.39 0.0297 0.0002

Saturn 29155-11-15 15:07 G 12370022.99 12370023.13 12370023.27 0.0297 0.0172

Mars 29156-05-10 00:14 G 12370199.37 12370199.51 12370199.66 0.1778 0.0323

Jupiter 29156-12-02 10:48 G 12370405.82 12370405.95 12370406.08 0.0516 0.0113

Jupiter 29157-03-01 18:00 G 12370495.21 12370495.25 12370495.30 0.0513 0.0481

Mars 29157-03-03 12:14 G 12370496.89 12370497.01 12370497.13 0.1760 0.0233

Venus 29158-10-09 06:43 G 12371081.66 12371081.78 12371081.91 0.3691 0.0949

Moon 29159-09-17 20:09 G 12371425.29 12371425.34 12371425.40 0.2669 0.2444

Earth 29159-09-17 21:50 G 12371425.32 12371425.41 12371425.50 0.2667 0.2149 *

Venus 29160-04-21 20:09 G 12371642.23 12371642.34 12371642.44 0.3680 0.1485

Pluto 29161-06-23 12:43 G 12372070.02 12372070.03 12372070.06 0.0069 0.0069

Pluto 29161-09-19 13:26 G 12372158.00 12372158.06 12372158.13 0.0070 0.0059

Pluto 29161-12-16 13:41 G 12372246.00 12372246.07 12372246.18 0.0070 0.0050

Pluto 29162-03-14 14:24 G 12372334.00 12372334.10 12372334.22 0.0070 0.0040

Moon 29162-03-21 15:50 G 12372341.05 12372341.16 12372341.28 0.2664 0.0275

Earth 29162-03-21 16:33 G 12372341.08 12372341.19 12372341.31 0.2664 0.0132 *

Pluto 29162-06-10 15:07 G 12372422.02 12372422.13 12372422.25 0.0070 0.0030

Pluto 29162-09-06 15:36 G 12372510.03 12372510.15 12372510.28 0.0070 0.0020

Pluto 29162-12-03 16:19 G 12372598.05 12372598.18 12372598.31 0.0070 0.0010

Pluto 29163-03-01 16:48 G 12372686.07 12372686.20 12372686.33 0.0070 0.0002

Jupiter 29163-05-01 10:19 G 12372746.79 12372746.93 12372747.08 0.0512 0.0268

Pluto 29163-05-28 17:31 G 12372774.10 12372774.23 12372774.36 0.0070 0.0010

Pluto 29163-08-24 18:00 G 12372862.13 12372862.25 12372862.38 0.0071 0.0020

Pluto 29163-11-20 18:29 G 12372950.16 12372950.27 12372950.39 0.0071 0.0030

Pluto 29164-02-16 19:12 G 12373038.19 12373038.30 12373038.41 0.0071 0.0040

Venus 29164-04-24 06:00 G 12373105.64 12373105.75 12373105.86 0.3691 0.1766

Pluto 29164-05-14 19:41 G 12373126.23 12373126.32 12373126.42 0.0071 0.0050

Pluto 29164-08-10 20:24 G 12373214.28 12373214.35 12373214.42 0.0071 0.0060

Pluto 29164-11-06 20:53 G 12373302.37 12373302.37 12373302.38 0.0071 0.0071

Mars 29165-09-30 02:38 G 12373629.57 12373629.61 12373629.64 0.1770 0.1697

Venus 29165-11-05 14:38 G 12373665.99 12373666.11 12373666.22 0.3679 0.0408

Mars 29166-07-24 20:38 G 12373927.27 12373927.36 12373927.45 0.1768 0.1215

Jupiter 29168-09-20 14:38 G 12374716.00 12374716.11 12374716.23 0.0517 0.0258

Jupiter 29168-12-18 21:50 G 12374805.31 12374805.41 12374805.51 0.0514 0.0335

Saturn 29169-06-12 16:19 G 12374981.17 12374981.18 12374981.22 0.0265 0.0259

Saturn 29169-09-09 03:21 G 12375069.53 12375069.64 12375069.75 0.0264 0.0163

Saturn 29169-12-06 14:09 G 12375157.96 12375158.09 12375158.23 0.0264 0.0067

Saturn 29170-03-05 01:26 G 12375246.42 12375246.56 12375246.70 0.0264 0.0032

Saturn 29170-06-01 12:29 G 12375334.90 12375335.02 12375335.15 0.0264 0.0130

Saturn 29170-08-28 23:45 G 12375423.43 12375423.49 12375423.57 0.0264 0.0231

Venus 29171-05-22 09:21 G 12375689.80 12375689.89 12375689.98 0.3679 0.2365

Moon 29172-09-20 01:26 G 12376176.42 12376176.56 12376176.71 0.2671 0.0474

Earth 29172-09-20 02:53 G 12376176.47 12376176.62 12376176.76 0.2667 0.0535 *

Jupiter 29175-02-17 08:09 G 12377056.67 12377056.84 12377057.01 0.0511 0.0068

Moon 29175-03-24 10:19 G 12377091.83 12377091.93 12377092.03 0.2669 0.1256

Earth 29175-03-24 10:48 G 12377091.85 12377091.95 12377092.05 0.2664 0.1315 *

Jupiter 29180-07-09 18:57 G 12379026.21 12379026.29 12379026.37 0.0518 0.0400

Jupiter 29180-10-07 01:55 G 12379115.45 12379115.58 12379115.70 0.0515 0.0191

Moon 29182-03-17 09:07 G 12379641.86 12379641.88 12379641.91 0.2657 0.2588

Earth 29182-03-17 09:21 G 12379641.87 12379641.89 12379641.90 0.2664 0.2622 *

Saturn 29184-10-07 18:00 G 12380577.14 12380577.25 12380577.36 0.0296 0.0226

Saturn 29185-01-04 16:19 G 12380666.01 12380666.18 12380666.35 0.0296 0.0050

Saturn 29185-04-03 14:09 G 12380754.94 12380755.09 12380755.25 0.0296 0.0124

Saturn 29185-07-01 11:31 G 12380843.97 12380843.98 12380844.02 0.0297 0.0293

Mars 29186-06-18 22:19 G 12381196.32 12381196.43 12381196.54 0.1787 0.1220

Jupiter 29186-12-06 06:29 G 12381366.60 12381366.77 12381366.94 0.0511 0.0123

Mars 29187-04-12 04:05 G 12381493.56 12381493.67 12381493.78 0.1752 0.0888

Uranus 29190-11-19 06:29 G 12382810.71 12382810.77 12382810.84 0.0145 0.0126

Uranus 29191-02-15 10:48 G 12382898.85 12382898.95 12382899.05 0.0145 0.0104

Uranus 29191-05-14 14:53 G 12382987.01 12382987.12 12382987.24 0.0145 0.0082

Uranus 29191-08-10 19:12 G 12383075.17 12383075.30 12383075.43 0.0145 0.0060

Uranus 29191-11-06 23:31 G 12383163.34 12383163.48 12383163.61 0.0145 0.0038

Uranus 29192-02-03 03:50 G 12383251.52 12383251.66 12383251.80 0.0145 0.0016

Uranus 29192-05-01 08:09 G 12383339.70 12383339.84 12383339.98 0.0145 0.0007

Jupiter 29192-07-26 05:31 G 12383425.60 12383425.73 12383425.86 0.0515 0.0040

Uranus 29192-07-28 12:29 G 12383427.88 12383428.02 12383428.16 0.0145 0.0030

Uranus 29192-10-24 16:48 G 12383516.07 12383516.20 12383516.34 0.0145 0.0053

Uranus 29193-01-20 21:07 G 12383604.27 12383604.38 12383604.51 0.0145 0.0077

Uranus 29193-04-19 01:41 G 12383692.47 12383692.57 12383692.68 0.0145 0.0100

Uranus 29193-07-16 06:00 G 12383780.69 12383780.75 12383780.84 0.0145 0.0124

Moon 29195-03-20 02:53 G 12384392.52 12384392.62 12384392.71 0.2659 0.1381

Earth 29195-03-20 03:21 G 12384392.54 12384392.64 12384392.74 0.2664 0.1235 *

Mars 29195-11-09 00:43 G 12384626.38 12384626.53 12384626.68 0.1779 0.0156

Mars 29196-09-01 12:29 G 12384923.89 12384924.02 12384924.15 0.1760 0.0088

Jupiter 29198-09-24 04:19 G 12385676.55 12385676.68 12385676.82 0.0510 0.0318

Jupiter 29198-12-23 10:05 G 12385766.85 12385766.92 12385766.99 0.0513 0.0461

Saturn 29199-01-27 05:45 G 12385801.65 12385801.74 12385801.84 0.0265 0.0192

Saturn 29199-04-25 16:48 G 12385890.07 12385890.20 12385890.33 0.0265 0.0095

Saturn 29199-07-23 03:50 G 12385978.52 12385978.66 12385978.80 0.0265 0.0003

Saturn 29199-10-19 15:07 G 12386067.00 12386067.13 12386067.26 0.0265 0.0102

Saturn 29200-01-16 02:24 G 12386155.51 12386155.60 12386155.69 0.0264 0.0202

Jupiter 29204-05-14 09:07 G 12387735.75 12387735.88 12387736.01 0.0516 0.0111

Jupiter 29204-08-11 16:19 G 12387825.14 12387825.18 12387825.23 0.0513 0.0480

Mars 29205-03-31 03:07 G 12388056.55 12388056.63 12388056.70 0.1770 0.1515

Moon 29205-09-18 02:38 G 12388227.49 12388227.61 12388227.72 0.2669 0.1734

Earth 29205-09-18 04:05 G 12388227.55 12388227.67 12388227.79 0.2667 0.1617 *

Mars 29206-01-22 20:38 G 12388354.26 12388354.36 12388354.46 0.1768 0.1085

Moon 29208-03-21 20:53 G 12389143.25 12389143.37 12389143.48 0.2666 0.0165

Earth 29208-03-21 21:36 G 12389143.28 12389143.40 12389143.51 0.2664 0.0196 *

Neptune 29208-11-05 20:09 G 12389372.34 12389372.34 12389372.36 0.0089 0.0089

Neptune 29209-02-01 23:17 G 12389460.40 12389460.47 12389460.56 0.0089 0.0079

Neptune 29209-05-01 02:24 G 12389548.50 12389548.60 12389548.73 0.0089 0.0069

Neptune 29209-07-28 05:31 G 12389636.61 12389636.73 12389636.88 0.0089 0.0059

Neptune 29209-10-24 08:53 G 12389724.72 12389724.87 12389725.02 0.0089 0.0049

Venus 29209-10-30 06:43 G 12389730.70 12389730.78 12389730.87 0.3690 0.2838

Neptune 29210-01-20 11:45 G 12389812.84 12389812.99 12389813.16 0.0089 0.0040

Neptune 29210-04-18 14:53 G 12389900.96 12389901.12 12389901.30 0.0089 0.0030

Neptune 29210-07-15 18:00 G 12389989.08 12389989.25 12389989.43 0.0089 0.0020

Jupiter 29210-10-11 07:55 G 12390076.68 12390076.83 12390076.98 0.0512 0.0263

Neptune 29210-10-11 21:07 G 12390077.20 12390077.38 12390077.56 0.0089 0.0011

Neptune 29211-01-08 00:14 G 12390165.33 12390165.51 12390165.69 0.0089 0.0002

Neptune 29211-04-06 03:07 G 12390253.45 12390253.63 12390253.81 0.0089 0.0009

Venus 29211-05-14 00:00 G 12390291.43 12390291.50 12390291.58 0.3681 0.2685

Neptune 29211-07-03 06:00 G 12390341.58 12390341.75 12390341.93 0.0089 0.0018

Neptune 29211-09-29 08:53 G 12390429.71 12390429.87 12390430.05 0.0089 0.0028

Neptune 29211-12-26 12:00 G 12390517.84 12390518.00 12390518.17 0.0089 0.0037

Neptune 29212-03-23 15:07 G 12390605.98 12390606.13 12390606.28 0.0089 0.0047

Neptune 29212-06-19 17:45 G 12390694.12 12390694.24 12390694.39 0.0089 0.0056

Neptune 29212-09-15 20:53 G 12390782.26 12390782.37 12390782.50 0.0089 0.0065

Neptune 29212-12-12 23:31 G 12390870.40 12390870.48 12390870.59 0.0089 0.0075

Neptune 29213-03-11 02:38 G 12390958.57 12390958.61 12390958.68 0.0089 0.0084

Saturn 29214-02-24 19:12 G 12391309.22 12391309.30 12391309.38 0.0296 0.0260

Saturn 29214-05-24 17:45 G 12391398.08 12391398.24 12391398.41 0.0297 0.0083

Saturn 29214-08-21 15:50 G 12391487.00 12391487.16 12391487.33 0.0297 0.0092

Saturn 29214-11-18 13:12 G 12391575.98 12391576.05 12391576.14 0.0297 0.0262

Venus 29215-05-16 06:29 G 12391754.64 12391754.77 12391754.90 0.3691 0.0066

Jupiter 29216-03-02 12:43 G 12392045.92 12392046.03 12392046.14 0.0517 0.0266

Jupiter 29216-05-30 19:41 G 12392135.22 12392135.32 12392135.43 0.0514 0.0326

Venus 29216-11-26 18:29 G 12392315.15 12392315.27 12392315.38 0.3680 0.0850

Moon 29218-09-21 08:09 G 12392978.70 12392978.84 12392978.98 0.2672 0.0841

Earth 29218-09-21 09:07 G 12392978.74 12392978.88 12392979.02 0.2667 0.1046 *

Venus 29220-11-29 05:31 G 12393778.64 12393778.73 12393778.81 0.3692 0.2652

Moon 29221-03-24 15:07 G 12393894.04 12393894.13 12393894.23 0.2669 0.1515

Earth 29221-03-24 15:50 G 12393894.07 12393894.16 12393894.24 0.2664 0.1615 *

Venus 29222-06-12 12:57 G 12394338.93 12394339.04 12394339.15 0.3679 0.1078

Jupiter 29222-07-30 06:00 G 12394386.58 12394386.75 12394386.92 0.0511 0.0067

Mars 29225-12-17 22:48 G 12395623.36 12395623.45 12395623.54 0.1787 0.1398

Mars 29226-10-11 04:19 G 12395920.58 12395920.68 12395920.78 0.1752 0.1030

Jupiter 29227-12-20 16:48 G 12396356.12 12396356.20 12396356.27 0.0518 0.0412

Venus 29227-12-27 07:41 G 12396362.76 12396362.82 12396362.88 0.3679 0.3052

Moon 29228-03-17 13:55 G 12396444.03 12396444.08 12396444.13 0.2657 0.2391

Earth 29228-03-17 14:09 G 12396444.04 12396444.09 12396444.14 0.2664 0.2332 *

Jupiter 29228-03-18 23:31 G 12396445.36 12396445.48 12396445.61 0.0515 0.0180

Saturn 29228-06-15 09:36 G 12396533.82 12396533.90 12396533.98 0.0265 0.0209

Saturn 29228-09-11 20:24 G 12396622.23 12396622.35 12396622.48 0.0264 0.0113

Saturn 29228-12-09 07:26 G 12396710.67 12396710.81 12396710.95 0.0264 0.0016

Saturn 29229-03-07 18:29 G 12396799.14 12396799.27 12396799.41 0.0264 0.0083

Saturn 29229-06-04 05:45 G 12396887.65 12396887.74 12396887.85 0.0264 0.0183

Uranus 29231-12-22 16:19 G 12397819.13 12397819.18 12397819.26 0.0134 0.0125

Uranus 29232-03-19 22:19 G 12397907.33 12397907.43 12397907.56 0.0134 0.0103

Uranus 29232-06-16 04:19 G 12397995.55 12397995.68 12397995.83 0.0134 0.0080

Uranus 29232-09-12 10:19 G 12398083.77 12398083.93 12398084.09 0.0134 0.0058

Uranus 29232-12-09 16:05 G 12398172.01 12398172.17 12398172.35 0.0133 0.0036

Uranus 29233-03-07 22:05 G 12398260.24 12398260.42 12398260.59 0.0133 0.0014

Uranus 29233-06-04 03:50 G 12398348.48 12398348.66 12398348.83 0.0133 0.0009

Uranus 29233-08-31 09:21 G 12398436.72 12398436.89 12398437.06 0.0133 0.0030

Uranus 29233-11-27 14:53 G 12398524.97 12398525.12 12398525.29 0.0133 0.0051

Uranus 29234-02-23 20:38 G 12398613.22 12398613.36 12398613.51 0.0133 0.0072

Jupiter 29234-05-18 03:36 G 12398696.48 12398696.65 12398696.82 0.0510 0.0136

Uranus 29234-05-23 02:09 G 12398701.47 12398701.59 12398701.72 0.0133 0.0093

Uranus 29234-08-19 07:26 G 12398789.74 12398789.81 12398789.91 0.0133 0.0115

Mars 29235-05-10 01:12 G 12399053.40 12399053.55 12399053.70 0.1779 0.0038

Mars 29236-03-02 12:29 G 12399350.89 12399351.02 12399351.14 0.1760 0.0043

Jupiter 29240-01-06 03:36 G 12400755.52 12400755.65 12400755.79 0.0516 0.0036

Moon 29241-03-20 07:41 G 12401194.71 12401194.82 12401194.92 0.2660 0.0975

Earth 29241-03-20 08:09 G 12401194.74 12401194.84 12401194.95 0.2664 0.0949 *

Saturn 29243-10-11 16:48 G 12402130.05 12402130.20 12402130.36 0.0296 0.0132

Saturn 29244-01-08 15:07 G 12402218.96 12402219.13 12402219.30 0.0296 0.0043

Saturn 29244-04-06 12:43 G 12402307.92 12402308.03 12402308.15 0.0296 0.0215

Mars 29244-09-29 03:36 G 12402483.55 12402483.65 12402483.74 0.1770 0.1338

Mars 29245-07-23 20:53 G 12402781.26 12402781.37 12402781.47 0.1768 0.0948

Jupiter 29246-03-06 01:41 G 12403006.44 12403006.57 12403006.70 0.0510 0.0329

Jupiter 29246-06-04 07:12 G 12403096.72 12403096.80 12403096.88 0.0513 0.0449

Pluto 29247-08-01 12:14 G 12403519.93 12403520.01 12403520.12 0.0074 0.0065

Pluto 29247-10-28 15:07 G 12403607.98 12403608.13 12403608.29 0.0074 0.0046

Pluto 29248-01-24 17:31 G 12403696.06 12403696.23 12403696.43 0.0074 0.0029

Pluto 29248-04-21 20:24 G 12403784.15 12403784.35 12403784.55 0.0074 0.0011

Pluto 29248-07-18 23:02 G 12403872.26 12403872.46 12403872.66 0.0074 0.0007

Pluto 29248-10-15 01:12 G 12403960.38 12403960.55 12403960.75 0.0074 0.0025

Pluto 29249-01-11 03:50 G 12404048.51 12404048.66 12404048.84 0.0073 0.0042

Pluto 29249-04-09 06:29 G 12404136.66 12404136.77 12404136.89 0.0073 0.0059

Moon 29251-09-19 09:07 G 12405029.75 12405029.88 12405030.01 0.2670 0.1357

Earth 29251-09-19 10:33 G 12405029.80 12405029.94 12405030.08 0.2668 0.1084 *

Jupiter 29251-10-25 07:26 G 12405065.68 12405065.81 12405065.94 0.0516 0.0113

Jupiter 29252-01-22 14:38 G 12405155.07 12405155.11 12405155.16 0.0513 0.0479

Moon 29254-03-23 01:41 G 12405945.46 12405945.57 12405945.68 0.2667 0.0303

Earth 29254-03-23 02:24 G 12405945.49 12405945.60 12405945.71 0.2664 0.0471 *

Saturn 29257-11-02 12:00 G 12407265.95 12407266.00 12407266.06 0.0265 0.0239

Saturn 29258-01-29 22:48 G 12407354.34 12407354.45 12407354.57 0.0265 0.0143

Jupiter 29258-03-23 05:31 G 12407406.58 12407406.73 12407406.88 0.0512 0.0259

Saturn 29258-04-28 09:50 G 12407442.77 12407442.91 12407443.05 0.0265 0.0046

Saturn 29258-07-25 20:53 G 12407531.23 12407531.37 12407531.51 0.0265 0.0053

Saturn 29258-10-22 08:09 G 12407619.73 12407619.84 12407619.95 0.0264 0.0152

Saturn 29259-01-18 19:26 G 12407708.28 12407708.31 12407708.35 0.0264 0.0253

Jupiter 29263-08-13 11:17 G 12409375.86 12409375.97 12409376.08 0.0517 0.0262

Jupiter 29263-11-10 18:14 G 12409465.16 12409465.26 12409465.37 0.0514 0.0329

Moon 29264-09-21 14:53 G 12409781.00 12409781.12 12409781.24 0.2673 0.1577

Earth 29264-09-21 15:21 G 12409781.02 12409781.14 12409781.26 0.2667 0.1560 *

Mars 29265-06-17 23:17 G 12410050.40 12410050.47 12410050.53 0.1788 0.1571

Mars 29266-04-11 04:19 G 12410347.59 12410347.68 12410347.78 0.1751 0.1166

Venus 29266-06-06 06:29 G 12410403.66 12410403.77 12410403.88 0.3690 0.1882

Moon 29267-03-25 20:09 G 12410696.27 12410696.34 12410696.42 0.2670 0.1918

Earth 29267-03-25 20:38 G 12410696.28 12410696.36 12410696.44 0.2664 0.1910 *

Venus 29267-12-18 22:19 G 12410964.33 12410964.43 12410964.52 0.3681 0.2064

Jupiter 29270-01-09 03:36 G 12411716.48 12411716.65 12411716.82 0.0511 0.0062

Venus 29271-12-21 06:00 G 12412427.62 12412427.75 12412427.87 0.3691 0.0904

Saturn 29273-02-27 18:00 G 12412862.11 12412862.25 12412862.39 0.0296 0.0168

Saturn 29273-05-27 16:19 G 12412951.01 12412951.18 12412951.35 0.0297 0.0009

Venus 29273-07-03 16:33 G 12412988.08 12412988.19 12412988.31 0.3680 0.0191

Saturn 29273-08-24 14:09 G 12413039.96 12413040.09 12413040.23 0.0297 0.0181

Moon 29274-03-18 18:43 G 12413246.21 12413246.28 12413246.35 0.2657 0.2076

Earth 29274-03-18 18:57 G 12413246.22 12413246.29 12413246.36 0.2664 0.2047 *

Uranus 29274-09-12 10:05 G 12413423.89 12413423.92 12413423.96 0.0145 0.0140

Mars 29274-11-08 01:55 G 12413480.43 12413480.58 12413480.72 0.1779 0.0228

Uranus 29274-12-09 14:09 G 12413512.02 12413512.09 12413512.17 0.0145 0.0119

Uranus 29275-03-07 18:29 G 12413600.17 12413600.27 12413600.37 0.0145 0.0097

Jupiter 29275-06-01 14:38 G 12413686.04 12413686.11 12413686.19 0.0518 0.0418

Uranus 29275-06-03 22:33 G 12413688.33 12413688.44 12413688.56 0.0145 0.0075

Jupiter 29275-08-29 21:36 G 12413775.28 12413775.40 12413775.53 0.0515 0.0172

Uranus 29275-08-31 02:53 G 12413776.49 12413776.62 12413776.75 0.0145 0.0053

Mars 29275-09-01 12:29 G 12413777.90 12413778.02 12413778.15 0.1759 0.0185

Uranus 29275-11-27 07:12 G 12413864.66 12413864.80 12413864.94 0.0145 0.0031

Uranus 29276-02-23 11:31 G 12413952.84 12413952.98 12413953.12 0.0145 0.0009

Uranus 29276-05-21 15:50 G 12414041.02 12414041.16 12414041.30 0.0145 0.0015

Uranus 29276-08-17 20:09 G 12414129.20 12414129.34 12414129.48 0.0145 0.0037

Uranus 29276-11-14 00:29 G 12414217.39 12414217.52 12414217.65 0.0145 0.0060

Uranus 29277-02-10 04:48 G 12414305.59 12414305.70 12414305.82 0.0145 0.0084

Uranus 29277-05-09 09:21 G 12414393.80 12414393.89 12414393.99 0.0145 0.0107

Venus 29277-07-06 04:48 G 12414451.66 12414451.70 12414451.73 0.3692 0.3519

Uranus 29277-08-05 13:41 G 12414482.02 12414482.07 12414482.14 0.0145 0.0130

Venus 29279-01-17 11:02 G 12415011.86 12415011.96 12415012.07 0.3679 0.1744

Jupiter 29281-10-28 01:26 G 12416026.39 12416026.56 12416026.73 0.0510 0.0134

Mars 29284-03-30 04:05 G 12416910.55 12416910.67 12416910.78 0.1771 0.1162

Mars 29285-01-21 20:53 G 12417208.26 12417208.37 12417208.48 0.1767 0.0819

Moon 29287-03-21 12:29 G 12417996.91 12417997.02 12417997.13 0.2662 0.0787

Earth 29287-03-21 13:12 G 12417996.94 12417997.05 12417997.15 0.2664 0.0657 *

Saturn 29287-03-22 15:36 G 12417998.13 12417998.15 12417998.19 0.0265 0.0256

Jupiter 29287-06-18 01:26 G 12418085.43 12418085.56 12418085.70 0.0516 0.0028

Saturn 29287-06-19 02:24 G 12418086.50 12418086.60 12418086.71 0.0264 0.0161

Saturn 29287-09-15 13:26 G 12418174.92 12418175.06 12418175.19 0.0264 0.0064

Saturn 29287-12-13 00:29 G 12418263.38 12418263.52 12418263.66 0.0264 0.0034

Saturn 29288-03-10 11:31 G 12418351.87 12418351.98 12418352.11 0.0264 0.0134

Saturn 29288-06-06 23:02 G 12418440.40 12418440.46 12418440.52 0.0264 0.0234

Neptune 29289-05-21 12:00 G 12418789.00 12418789.00 12418789.02 0.0088 0.0088

Neptune 29289-08-17 13:12 G 12418877.02 12418877.05 12418877.12 0.0088 0.0082

Neptune 29289-11-13 14:53 G 12418965.06 12418965.12 12418965.20 0.0088 0.0074

Neptune 29290-02-09 16:33 G 12419053.10 12419053.19 12419053.28 0.0088 0.0067

Neptune 29290-05-08 18:00 G 12419141.15 12419141.25 12419141.35 0.0088 0.0060

Neptune 29290-08-04 19:26 G 12419229.20 12419229.31 12419229.43 0.0088 0.0053

Neptune 29290-10-31 20:53 G 12419317.26 12419317.37 12419317.50 0.0088 0.0046

Neptune 29291-01-27 22:19 G 12419405.31 12419405.43 12419405.57 0.0088 0.0039

Neptune 29291-04-26 00:00 G 12419493.37 12419493.50 12419493.63 0.0088 0.0031

Neptune 29291-07-23 01:26 G 12419581.43 12419581.56 12419581.70 0.0088 0.0024

Neptune 29291-10-19 03:07 G 12419669.49 12419669.63 12419669.76 0.0088 0.0017

Neptune 29292-01-15 04:33 G 12419757.55 12419757.69 12419757.83 0.0088 0.0009

Neptune 29292-04-12 06:00 G 12419845.61 12419845.75 12419845.89 0.0088 0.0003

Neptune 29292-07-09 07:41 G 12419933.68 12419933.82 12419933.96 0.0088 0.0005

Neptune 29292-10-05 09:07 G 12420021.74 12420021.88 12420022.02 0.0088 0.0013

Neptune 29293-01-01 10:33 G 12420109.81 12420109.94 12420110.08 0.0088 0.0020

Neptune 29293-03-30 12:14 G 12420197.88 12420198.01 12420198.14 0.0088 0.0027

Neptune 29293-06-26 13:41 G 12420285.94 12420286.07 12420286.20 0.0088 0.0035

Jupiter 29293-08-15 22:48 G 12420336.32 12420336.45 12420336.59 0.0509 0.0338

Neptune 29293-09-22 15:07 G 12420374.01 12420374.13 12420374.26 0.0088 0.0042

Jupiter 29293-11-14 04:33 G 12420426.60 12420426.69 12420426.77 0.0513 0.0439

Neptune 29293-12-19 16:48 G 12420462.09 12420462.20 12420462.32 0.0088 0.0049

Neptune 29294-03-17 18:29 G 12420550.16 12420550.27 12420550.38 0.0088 0.0057

Neptune 29294-06-13 19:41 G 12420638.24 12420638.32 12420638.43 0.0088 0.0065

Neptune 29294-09-09 21:36 G 12420726.32 12420726.40 12420726.48 0.0088 0.0072

Neptune 29294-12-06 22:48 G 12420814.40 12420814.45 12420814.52 0.0088 0.0079

Neptune 29295-03-05 00:29 G 12420902.51 12420902.52 12420902.55 0.0088 0.0087

Moon 29297-09-19 15:36 G 12421832.00 12421832.15 12421832.30 0.2670 0.0688

Earth 29297-09-19 17:02 G 12421832.06 12421832.21 12421832.36 0.2668 0.0557 *

Jupiter 29299-04-06 05:31 G 12422395.61 12422395.73 12422395.86 0.0517 0.0120

Jupiter 29299-07-04 12:57 G 12422484.99 12422485.04 12422485.09 0.0514 0.0476

Moon 29300-03-24 06:29 G 12422747.66 12422747.77 12422747.88 0.2667 0.0732

Earth 29300-03-24 07:12 G 12422747.69 12422747.80 12422747.91 0.2664 0.0766 *

Saturn 29302-07-18 17:02 G 12423594.10 12423594.21 12423594.33 0.0296 0.0217

Saturn 29302-10-15 15:36 G 12423682.98 12423683.15 12423683.32 0.0296 0.0040

Saturn 29303-01-12 13:26 G 12423771.92 12423772.06 12423772.22 0.0296 0.0135

Mars 29304-12-17 23:45 G 12424477.47 12424477.49 12424477.51 0.1788 0.1758

Jupiter 29305-09-03 02:53 G 12424736.47 12424736.62 12424736.77 0.0512 0.0250

Mars 29305-10-11 04:33 G 12424774.60 12424774.69 12424774.77 0.1751 0.1302

Moon 29310-09-23 21:07 G 12426583.28 12426583.38 12426583.49 0.2674 0.1936

Earth 29310-09-23 21:36 G 12426583.31 12426583.40 12426583.50 0.2667 0.2072 *

Jupiter 29311-01-24 09:36 G 12426705.79 12426705.90 12426706.02 0.0517 0.0263

Jupiter 29311-04-23 16:48 G 12426795.09 12426795.20 12426795.30 0.0514 0.0328

Moon 29313-03-27 01:26 G 12427498.49 12427498.56 12427498.62 0.2671 0.2131

Earth 29313-03-27 01:26 G 12427498.50 12427498.56 12427498.62 0.2664 0.2208 *

Mars 29314-05-10 01:55 G 12427907.44 12427907.58 12427907.73 0.1779 0.0385

Mars 29315-03-03 12:43 G 12428204.91 12428205.03 12428205.15 0.1759 0.0316

Uranus 29316-01-12 23:31 G 12428520.42 12428520.48 12428520.58 0.0134 0.0119

Uranus 29316-04-10 05:45 G 12428608.62 12428608.74 12428608.87 0.0134 0.0096

Uranus 29316-07-07 11:31 G 12428696.85 12428696.98 12428697.14 0.0134 0.0074

Uranus 29316-10-03 17:31 G 12428785.08 12428785.23 12428785.40 0.0134 0.0051

Saturn 29316-11-06 04:33 G 12428818.60 12428818.69 12428818.79 0.0265 0.0192

Uranus 29316-12-30 23:31 G 12428873.31 12428873.48 12428873.65 0.0134 0.0029

Saturn 29317-02-02 15:36 G 12428907.02 12428907.15 12428907.28 0.0265 0.0095

Uranus 29317-03-29 05:17 G 12428961.55 12428961.72 12428961.90 0.0133 0.0007

Saturn 29317-05-02 02:38 G 12428995.47 12428995.61 12428995.75 0.0265 0.0007

Jupiter 29317-06-22 01:12 G 12429046.37 12429046.55 12429046.72 0.0512 0.0058

Uranus 29317-06-25 11:02 G 12429049.79 12429049.96 12429050.13 0.0133 0.0015

Saturn 29317-07-29 13:41 G 12429083.94 12429084.07 12429084.20 0.0264 0.0101

Uranus 29317-09-21 16:33 G 12429138.03 12429138.19 12429138.37 0.0133 0.0037

Saturn 29317-10-26 00:57 G 12429172.45 12429172.54 12429172.63 0.0264 0.0202

Uranus 29317-12-18 22:19 G 12429226.28 12429226.43 12429226.59 0.0133 0.0058

Uranus 29318-03-17 04:05 G 12429314.53 12429314.67 12429314.81 0.0133 0.0079

Uranus 29318-06-13 09:36 G 12429402.79 12429402.90 12429403.01 0.0133 0.0100

Uranus 29318-09-09 15:07 G 12429491.06 12429491.13 12429491.20 0.0133 0.0121

Venus 29319-01-10 02:09 G 12429613.54 12429613.59 12429613.64 0.3681 0.3255

Moon 29320-03-19 23:31 G 12430048.40 12430048.48 12430048.56 0.2657 0.1807

Earth 29320-03-20 00:00 G 12430048.41 12430048.50 12430048.58 0.2664 0.1763 *

Jupiter 29322-11-12 13:26 G 12431015.99 12431016.06 12431016.14 0.0518 0.0410

Venus 29323-01-12 06:00 G 12431076.63 12431076.75 12431076.88 0.3691 0.0944

Jupiter 29323-02-09 20:24 G 12431105.22 12431105.35 12431105.47 0.0515 0.0178

Mars 29323-09-30 04:33 G 12431337.57 12431337.69 12431337.81 0.1771 0.0972

Mars 29324-07-23 20:53 G 12431635.26 12431635.37 12431635.49 0.1767 0.0683

Venus 29324-07-25 20:24 G 12431637.25 12431637.35 12431637.45 0.3680 0.1424

Venus 29328-07-28 05:17 G 12433100.61 12433100.72 12433100.83 0.3691 0.1790

Jupiter 29329-04-09 23:02 G 12433356.30 12433356.46 12433356.63 0.0510 0.0139

Venus 29330-02-08 14:53 G 12433661.00 12433661.12 12433661.23 0.3680 0.0478

Saturn 29331-12-05 17:02 G 12434326.14 12434326.21 12434326.30 0.0296 0.0260

Saturn 29332-03-03 15:50 G 12434415.00 12434415.16 12434415.33 0.0297 0.0081

Saturn 29332-05-31 13:55 G 12434503.92 12434504.08 12434504.25 0.0297 0.0095

Saturn 29332-08-28 11:45 G 12434592.91 12434592.99 12434593.06 0.0297 0.0265

Moon 29333-03-22 17:17 G 12434799.11 12434799.22 12434799.33 0.2664 0.0454

Earth 29333-03-22 18:00 G 12434799.14 12434799.25 12434799.36 0.2664 0.0365 *

Mars 29333-12-14 05:17 G 12435065.68 12435065.72 12435065.75 0.1775 0.1681

Jupiter 29334-11-28 23:45 G 12435415.35 12435415.49 12435415.62 0.0516 0.0025

Venus 29335-08-25 09:21 G 12435684.81 12435684.89 12435684.98 0.3679 0.2428

Jupiter 29341-01-26 21:07 G 12437666.25 12437666.38 12437666.51 0.0509 0.0333

Jupiter 29341-04-27 02:38 G 12437756.53 12437756.61 12437756.70 0.0512 0.0444

Moon 29343-09-21 22:05 G 12438634.27 12438634.42 12438634.57 0.2672 0.0197

Earth 29343-09-21 23:17 G 12438634.32 12438634.47 12438634.62 0.2668 0.0047 *

Mars 29345-04-11 04:33 G 12439201.62 12439201.69 12439201.76 0.1751 0.1439

Moon 29346-03-25 11:31 G 12439549.87 12439549.98 12439550.08 0.2667 0.0921

Earth 29346-03-25 12:00 G 12439549.90 12439550.00 12439550.11 0.2664 0.1067 *

Saturn 29346-03-26 08:09 G 12439550.76 12439550.84 12439550.93 0.0264 0.0210

Saturn 29346-06-22 18:57 G 12439639.17 12439639.29 12439639.42 0.0264 0.0114

Jupiter 29346-09-17 03:36 G 12439725.52 12439725.65 12439725.78 0.0517 0.0127

Saturn 29346-09-19 06:00 G 12439727.61 12439727.75 12439727.89 0.0264 0.0017

Jupiter 29346-12-15 10:48 G 12439814.90 12439814.95 12439815.01 0.0514 0.0467

Saturn 29346-12-16 17:02 G 12439816.08 12439816.21 12439816.35 0.0264 0.0083

Saturn 29347-03-15 04:19 G 12439904.58 12439904.68 12439904.79 0.0264 0.0182

Jupiter 29353-02-13 00:29 G 12442066.37 12442066.52 12442066.67 0.0512 0.0245

Mars 29353-11-08 02:38 G 12442334.47 12442334.61 12442334.75 0.1780 0.0576

Mars 29354-09-01 12:43 G 12442631.91 12442632.03 12442632.15 0.1759 0.0445

Moon 29356-09-24 03:36 G 12443385.62 12443385.65 12443385.68 0.2674 0.2602

Earth 29356-09-24 04:05 G 12443385.64 12443385.67 12443385.70 0.2667 0.2580 *

Jupiter 29358-07-06 07:41 G 12444035.71 12444035.82 12444035.94 0.0518 0.0269

Jupiter 29358-10-03 14:53 G 12444125.02 12444125.12 12444125.22 0.0515 0.0324

Uranus 29358-10-03 18:00 G 12444125.20 12444125.25 12444125.31 0.0145 0.0132 *

Uranus 29358-12-30 22:19 G 12444213.34 12444213.43 12444213.52 0.0145 0.0110

Earth 29359-03-28 06:29 G 12444300.73 12444300.77 12444300.80 0.2664 0.2509

Moon 29359-03-28 06:14 G 12444300.74 12444300.76 12444300.79 0.2671 0.2571 *

Uranus 29359-03-29 02:09 G 12444301.49 12444301.59 12444301.71 0.0145 0.0089

Uranus 29359-06-25 06:29 G 12444389.65 12444389.77 12444389.90 0.0145 0.0067

Uranus 29359-09-21 10:48 G 12444477.82 12444477.95 12444478.09 0.0145 0.0044

Uranus 29359-12-18 15:07 G 12444565.99 12444566.13 12444566.27 0.0145 0.0022

Uranus 29360-03-15 19:26 G 12444654.17 12444654.31 12444654.45 0.0145 0.0001

Uranus 29360-06-11 23:45 G 12444742.35 12444742.49 12444742.63 0.0145 0.0023

Uranus 29360-09-08 04:05 G 12444830.54 12444830.67 12444830.81 0.0145 0.0046

Uranus 29360-12-05 08:24 G 12444918.73 12444918.85 12444918.98 0.0145 0.0069

Uranus 29361-03-03 12:57 G 12445006.93 12445007.04 12445007.15 0.0145 0.0092

Uranus 29361-05-30 17:17 G 12445095.14 12445095.22 12445095.31 0.0145 0.0115

Saturn 29361-07-21 15:07 G 12445146.97 12445147.13 12445147.28 0.0296 0.0131

Uranus 29361-08-26 21:36 G 12445183.37 12445183.40 12445183.45 0.0145 0.0139

Saturn 29361-10-18 13:12 G 12445235.89 12445236.05 12445236.23 0.0297 0.0046

Saturn 29362-01-15 11:02 G 12445324.85 12445324.96 12445325.08 0.0297 0.0218

Mars 29363-03-31 04:48 G 12445764.57 12445764.70 12445764.84 0.1771 0.0806

Mars 29364-01-22 20:53 G 12446062.26 12446062.37 12446062.49 0.1767 0.0553

Jupiter 29364-12-01 22:48 G 12446376.27 12446376.45 12446376.62 0.0511 0.0053

Moon 29366-03-21 04:19 G 12446850.59 12446850.68 12446850.77 0.2659 0.1558

Earth 29366-03-21 04:48 G 12446850.60 12446850.70 12446850.79 0.2664 0.1473 *

Jupiter 29370-04-24 12:00 G 12448345.92 12448346.00 12448346.08 0.0518 0.0410

Jupiter 29370-07-22 18:43 G 12448435.16 12448435.28 12448435.41 0.0515 0.0180

Mars 29373-06-14 05:31 G 12449492.67 12449492.73 12449492.78 0.1775 0.1540

Neptune 29373-08-03 18:14 G 12449543.24 12449543.26 12449543.33 0.0089 0.0086

Neptune 29373-10-30 21:36 G 12449631.32 12449631.40 12449631.50 0.0089 0.0076

Neptune 29374-01-27 00:43 G 12449719.42 12449719.53 12449719.66 0.0089 0.0066

Venus 29374-02-02 06:00 G 12449725.67 12449725.75 12449725.83 0.3690 0.2863

Neptune 29374-04-25 04:05 G 12449807.53 12449807.67 12449807.81 0.0089 0.0056

Neptune 29374-07-22 06:43 G 12449895.64 12449895.78 12449895.95 0.0089 0.0047

Neptune 29374-10-18 10:05 G 12449983.76 12449983.92 12449984.09 0.0089 0.0037

Neptune 29375-01-14 13:12 G 12450071.88 12450072.05 12450072.23 0.0089 0.0027

Neptune 29375-04-12 16:19 G 12450160.00 12450160.18 12450160.36 0.0089 0.0017

Neptune 29375-07-09 19:26 G 12450248.13 12450248.31 12450248.49 0.0089 0.0008

Saturn 29375-08-13 10:19 G 12450282.88 12450282.93 12450282.98 0.0265 0.0242

Venus 29375-08-17 00:14 G 12450286.44 12450286.51 12450286.59 0.3681 0.2634

Neptune 29375-10-05 22:33 G 12450336.26 12450336.44 12450336.62 0.0089 0.0003

Saturn 29375-11-09 21:07 G 12450371.27 12450371.38 12450371.49 0.0265 0.0146

Neptune 29376-01-02 01:26 G 12450424.38 12450424.56 12450424.74 0.0089 0.0011

Saturn 29376-02-06 07:55 G 12450459.70 12450459.83 12450459.97 0.0264 0.0050

Neptune 29376-03-30 04:19 G 12450512.51 12450512.68 12450512.86 0.0089 0.0021

Saturn 29376-05-04 18:57 G 12450548.16 12450548.29 12450548.43 0.0264 0.0049

Neptune 29376-06-26 07:12 G 12450600.64 12450600.80 12450600.98 0.0089 0.0031

Saturn 29376-08-01 06:14 G 12450636.64 12450636.76 12450636.88 0.0264 0.0148

Moon 29376-09-18 22:48 G 12450685.38 12450685.45 12450685.53 0.2668 0.2345

Earth 29376-09-19 00:29 G 12450685.44 12450685.52 12450685.61 0.2668 0.2212 *

Jupiter 29376-09-19 20:53 G 12450686.20 12450686.37 12450686.54 0.0511 0.0141

Neptune 29376-09-22 10:19 G 12450688.78 12450688.93 12450689.10 0.0089 0.0040

Saturn 29376-10-28 17:31 G 12450725.19 12450725.23 12450725.28 0.0264 0.0248

Neptune 29376-12-19 13:26 G 12450776.91 12450777.06 12450777.21 0.0089 0.0049

Neptune 29377-03-17 16:05 G 12450865.05 12450865.17 12450865.32 0.0089 0.0059

Neptune 29377-06-13 19:12 G 12450953.20 12450953.30 12450953.42 0.0089 0.0068

Neptune 29377-09-09 21:50 G 12451041.35 12451041.41 12451041.52 0.0089 0.0078

Neptune 29377-12-07 00:57 G 12451129.52 12451129.54 12451129.59 0.0089 0.0087

Moon 29379-03-23 22:05 G 12451601.31 12451601.42 12451601.53 0.2664 0.0190

Earth 29379-03-23 22:48 G 12451601.34 12451601.45 12451601.56 0.2664 0.0070 *

Venus 29379-08-19 05:31 G 12451749.60 12451749.73 12451749.86 0.3691 0.0074

Venus 29381-03-01 18:29 G 12452310.16 12452310.27 12452310.38 0.3680 0.0793

Jupiter 29382-05-10 22:48 G 12452745.31 12452745.45 12452745.58 0.0516 0.0035

Mars 29384-10-10 04:48 G 12453628.65 12453628.70 12453628.75 0.1751 0.1580

Venus 29385-03-04 04:48 G 12453773.61 12453773.70 12453773.78 0.3692 0.2681

Venus 29386-09-15 12:57 G 12454333.93 12454334.04 12454334.15 0.3679 0.1133

Jupiter 29388-07-08 18:57 G 12454996.16 12454996.29 12454996.43 0.0509 0.0334

Jupiter 29388-10-07 00:29 G 12455086.45 12455086.52 12455086.61 0.0513 0.0445

Moon 29389-09-22 04:48 G 12455436.55 12455436.70 12455436.84 0.2673 0.0335

Earth 29389-09-22 05:45 G 12455436.59 12455436.74 12455436.89 0.2667 0.0490 *

Saturn 29390-12-08 14:24 G 12455878.96 12455879.10 12455879.23 0.0297 0.0179

Saturn 29391-03-07 12:43 G 12455967.86 12455968.03 12455968.21 0.0297 0.0006

Saturn 29391-06-04 10:33 G 12456056.81 12456056.94 12456057.09 0.0297 0.0173

Moon 29392-03-25 16:33 G 12456352.09 12456352.19 12456352.28 0.2669 0.1327

Earth 29392-03-25 17:02 G 12456352.11 12456352.21 12456352.30 0.2664 0.1357 *

Venus 29392-03-31 07:41 G 12456357.77 12456357.82 12456357.88 0.3679 0.3118

Mars 29393-05-09 03:07 G 12456761.50 12456761.63 12456761.76 0.1780 0.0752

Jupiter 29394-02-27 01:55 G 12457055.45 12457055.58 12457055.71 0.0517 0.0128

Mars 29394-03-02 12:43 G 12457058.92 12457059.03 12457059.15 0.1759 0.0581

Jupiter 29394-05-27 09:07 G 12457144.83 12457144.88 12457144.94 0.0514 0.0466

Earth 29399-03-19 15:36 G 12458902.12 12458902.15 12458902.18 0.2663 0.2556

Moon 29399-03-19 15:36 G 12458902.13 12458902.15 12458902.16 0.2656 0.2622 *

Uranus 29399-11-06 01:12 G 12459133.55 12459133.55 12459133.57 0.0134 0.0134

Uranus 29400-02-02 07:12 G 12459221.71 12459221.80 12459221.91 0.0134 0.0111

Uranus 29400-05-01 13:12 G 12459309.93 12459310.05 12459310.19 0.0134 0.0089

Jupiter 29400-07-26 23:02 G 12459396.31 12459396.46 12459396.61 0.0512 0.0255

Uranus 29400-07-28 19:12 G 12459398.16 12459398.30 12459398.46 0.0134 0.0066

Uranus 29400-10-25 01:12 G 12459486.39 12459486.55 12459486.72 0.0134 0.0044

Uranus 29401-01-21 07:12 G 12459574.62 12459574.80 12459574.97 0.0134 0.0022

Uranus 29401-04-19 12:57 G 12459662.86 12459663.04 12459663.21 0.0133 0.0001

Uranus 29401-07-16 18:29 G 12459751.11 12459751.27 12459751.45 0.0133 0.0023

Uranus 29401-10-13 00:14 G 12459839.35 12459839.51 12459839.68 0.0133 0.0044

Uranus 29402-01-09 05:45 G 12459927.60 12459927.74 12459927.90 0.0133 0.0066

Uranus 29402-04-07 11:31 G 12460015.85 12460015.98 12460016.12 0.0133 0.0086

Uranus 29402-07-04 17:02 G 12460104.12 12460104.21 12460104.32 0.0133 0.0107

Mars 29402-09-30 05:31 G 12460191.59 12460191.73 12460191.87 0.1771 0.0619

Uranus 29402-09-30 22:19 G 12460192.40 12460192.43 12460192.49 0.0133 0.0129

Mars 29403-07-24 21:07 G 12460489.26 12460489.38 12460489.50 0.1767 0.0412

Saturn 29404-12-31 13:41 G 12461015.06 12461015.07 12461015.09 0.0264 0.0261

Saturn 29405-03-30 00:29 G 12461103.42 12461103.52 12461103.63 0.0264 0.0166

Saturn 29405-06-26 11:17 G 12461191.84 12461191.97 12461192.11 0.0264 0.0070

Saturn 29405-09-22 22:19 G 12461280.29 12461280.43 12461280.57 0.0264 0.0028

Jupiter 29405-12-17 06:00 G 12461365.64 12461365.75 12461365.86 0.0518 0.0275

Saturn 29405-12-20 09:36 G 12461368.77 12461368.90 12461369.02 0.0264 0.0127

Jupiter 29406-03-16 12:57 G 12461454.94 12461455.04 12461455.14 0.0515 0.0318

Saturn 29406-03-18 20:53 G 12461457.30 12461457.37 12461457.44 0.0263 0.0227

Pluto 29408-10-30 23:45 G 12462414.47 12462414.49 12462414.51 0.0069 0.0068

Pluto 29409-01-27 00:00 G 12462502.44 12462502.50 12462502.58 0.0070 0.0059

Pluto 29409-04-25 00:43 G 12462590.44 12462590.53 12462590.63 0.0070 0.0049

Pluto 29409-07-22 01:26 G 12462678.45 12462678.56 12462678.67 0.0070 0.0039

Pluto 29409-10-18 01:41 G 12462766.46 12462766.57 12462766.70 0.0070 0.0030

Pluto 29410-01-14 02:24 G 12462854.48 12462854.60 12462854.73 0.0070 0.0020

Pluto 29410-04-12 03:07 G 12462942.50 12462942.63 12462942.76 0.0070 0.0010

Pluto 29410-07-09 03:36 G 12463030.52 12463030.65 12463030.78 0.0070 0.0001

Pluto 29410-10-05 04:05 G 12463118.55 12463118.67 12463118.81 0.0070 0.0011

Pluto 29411-01-01 04:33 G 12463206.58 12463206.69 12463206.83 0.0070 0.0021

Pluto 29411-03-30 05:17 G 12463294.61 12463294.72 12463294.84 0.0071 0.0030

Pluto 29411-06-26 05:45 G 12463382.64 12463382.74 12463382.86 0.0071 0.0041

Pluto 29411-09-22 06:14 G 12463470.68 12463470.76 12463470.86 0.0071 0.0051

Pluto 29411-12-19 06:57 G 12463558.73 12463558.79 12463558.86 0.0071 0.0061

Moon 29412-03-22 09:07 G 12463652.78 12463652.88 12463652.97 0.2660 0.1222

Earth 29412-03-22 09:36 G 12463652.80 12463652.90 12463653.00 0.2663 0.1180 *

Jupiter 29412-05-14 20:53 G 12463706.19 12463706.37 12463706.54 0.0511 0.0055

Mars 29412-12-14 05:17 G 12463919.65 12463919.72 12463919.80 0.1775 0.1419

Jupiter 29417-10-05 10:05 G 12465675.85 12465675.92 12465676.00 0.0519 0.0416

Jupiter 29418-01-02 17:02 G 12465765.09 12465765.21 12465765.34 0.0516 0.0176

Saturn 29420-04-27 12:57 G 12466610.94 12466611.04 12466611.16 0.0296 0.0232

Saturn 29420-07-25 11:45 G 12466699.82 12466699.99 12466700.16 0.0297 0.0053

Saturn 29420-10-22 09:50 G 12466788.75 12466788.91 12466789.07 0.0297 0.0122

Saturn 29421-01-19 07:12 G 12466877.79 12466877.80 12466877.83 0.0297 0.0293

Moon 29422-09-21 05:31 G 12467487.63 12467487.73 12467487.83 0.2669 0.1960

Earth 29422-09-21 06:57 G 12467487.67 12467487.79 12467487.91 0.2668 0.1679 *

Jupiter 29424-03-02 18:57 G 12468016.12 12468016.29 12468016.46 0.0510 0.0139

Mars 29424-04-11 04:48 G 12468055.68 12468055.70 12468055.72 0.1751 0.1711

Moon 29425-03-25 02:53 G 12468403.51 12468403.62 12468403.73 0.2664 0.0111

Earth 29425-03-25 03:36 G 12468403.54 12468403.65 12468403.76 0.2664 0.0230 *

Jupiter 29429-10-21 21:07 G 12470075.25 12470075.38 12470075.52 0.0516 0.0038

Venus 29430-09-10 05:31 G 12470398.62 12470398.73 12470398.85 0.3690 0.1910

Venus 29432-03-23 22:33 G 12470959.34 12470959.44 12470959.53 0.3680 0.2007

Mars 29432-11-08 03:21 G 12471188.52 12471188.64 12471188.77 0.1780 0.0921

Mars 29433-09-01 12:57 G 12471485.93 12471486.04 12471486.16 0.1759 0.0728

Saturn 29434-08-17 02:09 G 12471835.51 12471835.59 12471835.69 0.0264 0.0201

Saturn 29434-11-13 13:12 G 12471923.92 12471924.05 12471924.18 0.0264 0.0104

Saturn 29435-02-10 00:00 G 12472012.36 12472012.50 12472012.64 0.0264 0.0009

Saturn 29435-05-09 11:02 G 12472100.83 12472100.96 12472101.10 0.0264 0.0092

Saturn 29435-08-05 22:19 G 12472189.34 12472189.43 12472189.53 0.0264 0.0191

Moon 29435-09-24 11:02 G 12472238.82 12472238.96 12472239.10 0.2674 0.0949

Earth 29435-09-24 12:00 G 12472238.86 12472239.00 12472239.14 0.2668 0.1004 *

Jupiter 29435-12-20 16:48 G 12472326.07 12472326.20 12472326.34 0.0510 0.0334

Jupiter 29436-03-19 22:33 G 12472416.36 12472416.44 12472416.53 0.0513 0.0446

Venus 29436-03-26 05:02 G 12472422.59 12472422.71 12472422.84 0.3691 0.0907

Venus 29437-10-07 16:48 G 12472983.09 12472983.20 12472983.31 0.3680 0.0136

Moon 29438-03-27 21:21 G 12473154.31 12473154.39 12473154.48 0.2670 0.1594

Earth 29438-03-27 21:50 G 12473154.32 12473154.41 12473154.50 0.2664 0.1652 *

Jupiter 29441-08-10 01:12 G 12474385.42 12474385.55 12474385.68 0.0517 0.0112

Venus 29441-10-10 04:05 G 12474446.64 12474446.67 12474446.70 0.3692 0.3572

Jupiter 29441-11-07 08:24 G 12474474.81 12474474.85 12474474.89 0.0514 0.0481

Mars 29442-03-31 06:00 G 12474618.60 12474618.75 12474618.89 0.1772 0.0435

Uranus 29442-10-25 01:55 G 12474826.51 12474826.58 12474826.65 0.0144 0.0123

Uranus 29443-01-21 06:00 G 12474914.66 12474914.75 12474914.85 0.0145 0.0102

Mars 29443-01-22 21:07 G 12474916.26 12474916.38 12474916.51 0.1766 0.0283

Uranus 29443-04-19 10:19 G 12475002.81 12475002.93 12475003.05 0.0145 0.0080

Venus 29443-04-23 11:17 G 12475006.87 12475006.97 12475007.07 0.3679 0.1810

Uranus 29443-07-16 14:24 G 12475090.98 12475091.10 12475091.23 0.0145 0.0058

Uranus 29443-10-12 18:43 G 12475179.14 12475179.28 12475179.42 0.0145 0.0036

Uranus 29444-01-08 23:02 G 12475267.32 12475267.46 12475267.60 0.0145 0.0014

Uranus 29444-04-06 03:21 G 12475355.50 12475355.64 12475355.78 0.0145 0.0009

Uranus 29444-07-03 07:41 G 12475443.68 12475443.82 12475443.96 0.0145 0.0032

Uranus 29444-09-29 12:00 G 12475531.87 12475532.00 12475532.13 0.0145 0.0054

Uranus 29444-12-26 16:19 G 12475620.06 12475620.18 12475620.30 0.0145 0.0077

Moon 29445-03-20 20:24 G 12475704.29 12475704.35 12475704.40 0.2657 0.2232

Earth 29445-03-20 20:24 G 12475704.30 12475704.35 12475704.41 0.2663 0.2275 *

Uranus 29445-03-24 20:38 G 12475708.26 12475708.36 12475708.47 0.0145 0.0101

Uranus 29445-06-21 00:57 G 12475796.48 12475796.54 12475796.63 0.0145 0.0124

Jupiter 29448-01-06 21:21 G 12476726.24 12476726.39 12476726.54 0.0512 0.0259

Saturn 29449-09-14 11:02 G 12477342.93 12477342.96 12477343.00 0.0296 0.0289

Saturn 29449-12-12 09:50 G 12477431.75 12477431.91 12477432.08 0.0297 0.0109

Saturn 29450-03-11 08:24 G 12477520.68 12477520.85 12477521.01 0.0297 0.0068

Saturn 29450-06-08 06:00 G 12477609.66 12477609.75 12477609.85 0.0297 0.0241

Mars 29452-06-14 05:31 G 12478346.64 12478346.73 12478346.81 0.1775 0.1278

Jupiter 29453-05-29 04:19 G 12478695.58 12478695.68 12478695.80 0.0518 0.0273

Jupiter 29453-08-26 11:31 G 12478784.87 12478784.98 12478785.08 0.0515 0.0320

Neptune 29454-02-17 11:17 G 12478959.95 12478959.97 12478960.00 0.0088 0.0086

Neptune 29454-05-16 12:43 G 12479047.98 12479048.03 12479048.10 0.0088 0.0079

Neptune 29454-08-12 14:09 G 12479136.02 12479136.09 12479136.18 0.0088 0.0072

Neptune 29454-11-08 15:36 G 12479224.07 12479224.15 12479224.25 0.0088 0.0065

Neptune 29455-02-04 17:17 G 12479312.12 12479312.22 12479312.33 0.0088 0.0058

Neptune 29455-05-03 18:43 G 12479400.17 12479400.28 12479400.40 0.0088 0.0051

Neptune 29455-07-30 20:09 G 12479488.23 12479488.34 12479488.47 0.0088 0.0044

Neptune 29455-10-26 21:36 G 12479576.28 12479576.40 12479576.54 0.0088 0.0037

Neptune 29456-01-22 23:02 G 12479664.34 12479664.46 12479664.60 0.0088 0.0030

Neptune 29456-04-20 00:43 G 12479752.40 12479752.53 12479752.67 0.0088 0.0022

Neptune 29456-07-17 02:24 G 12479840.46 12479840.60 12479840.73 0.0088 0.0015

Neptune 29456-10-13 03:50 G 12479928.52 12479928.66 12479928.80 0.0088 0.0007

Neptune 29457-01-09 05:17 G 12480016.58 12480016.72 12480016.86 0.0088 0.0002

Neptune 29457-04-07 06:57 G 12480104.65 12480104.79 12480104.93 0.0088 0.0008

Neptune 29457-07-04 08:24 G 12480192.71 12480192.85 12480192.99 0.0088 0.0015

Neptune 29457-09-30 09:50 G 12480280.78 12480280.91 12480281.05 0.0088 0.0022

Neptune 29457-12-27 11:17 G 12480368.85 12480368.97 12480369.11 0.0088 0.0030

Moon 29458-03-23 13:41 G 12480454.97 12480455.07 12480455.18 0.2661 0.1048

Earth 29458-03-23 14:24 G 12480455.00 12480455.10 12480455.21 0.2663 0.0889 *

Neptune 29458-03-25 12:57 G 12480456.91 12480457.04 12480457.17 0.0088 0.0037

Neptune 29458-06-21 14:24 G 12480544.98 12480545.10 12480545.23 0.0088 0.0044

Neptune 29458-09-17 16:05 G 12480633.06 12480633.17 12480633.29 0.0088 0.0051

Neptune 29458-12-14 17:17 G 12480721.13 12480721.22 12480721.34 0.0088 0.0060

Neptune 29459-03-12 18:57 G 12480809.21 12480809.29 12480809.39 0.0088 0.0067

Neptune 29459-06-08 20:53 G 12480897.29 12480897.37 12480897.44 0.0088 0.0074

Neptune 29459-09-04 22:05 G 12480985.38 12480985.42 12480985.49 0.0088 0.0081

Jupiter 29459-10-25 19:55 G 12481036.15 12481036.33 12481036.50 0.0511 0.0071

Saturn 29464-01-04 05:31 G 12482567.66 12482567.73 12482567.81 0.0264 0.0221

Saturn 29464-04-01 16:19 G 12482656.06 12482656.18 12482656.30 0.0264 0.0125

Saturn 29464-06-29 03:21 G 12482744.50 12482744.64 12482744.77 0.0264 0.0030

Saturn 29464-09-25 14:09 G 12482832.96 12482833.09 12482833.23 0.0263 0.0070

Saturn 29464-12-23 01:26 G 12482921.45 12482921.56 12482921.67 0.0263 0.0169

Jupiter 29465-03-17 08:24 G 12483005.78 12483005.85 12483005.93 0.0519 0.0418

Jupiter 29465-06-14 15:21 G 12483095.01 12483095.14 12483095.26 0.0516 0.0173

Moon 29468-09-21 12:00 G 12484289.87 12484290.00 12484290.13 0.2671 0.1225

Earth 29468-09-21 13:26 G 12484289.92 12484290.06 12484290.19 0.2668 0.1153 *

Moon 29471-03-26 07:55 G 12485205.72 12485205.83 12485205.94 0.2665 0.0454

Earth 29471-03-26 08:38 G 12485205.75 12485205.86 12485205.97 0.2664 0.0526 *

Jupiter 29471-08-13 17:17 G 12485346.06 12485346.22 12485346.39 0.0510 0.0132

Mars 29472-05-09 04:05 G 12485615.55 12485615.67 12485615.78 0.1780 0.1109

Mars 29473-03-02 12:57 G 12485912.93 12485913.04 12485913.15 0.1758 0.0851

Jupiter 29477-04-02 19:26 G 12487405.18 12487405.31 12487405.45 0.0516 0.0033

Saturn 29479-05-01 08:38 G 12488163.72 12488163.86 12488164.01 0.0297 0.0163

Saturn 29479-07-29 07:12 G 12488252.63 12488252.80 12488252.97 0.0297 0.0016

Saturn 29479-10-26 05:02 G 12488341.58 12488341.71 12488341.84 0.0297 0.0190

Moon 29481-09-24 17:31 G 12489041.10 12489041.23 12489041.36 0.2673 0.1346

Earth 29481-09-24 18:14 G 12489041.14 12489041.26 12489041.39 0.2668 0.1513 *

Mars 29481-09-29 06:14 G 12489045.62 12489045.76 12489045.91 0.1771 0.0269

Mars 29482-07-23 21:21 G 12489343.26 12489343.39 12489343.51 0.1767 0.0142

Venus 29483-04-15 02:24 G 12489608.55 12489608.60 12489608.66 0.3681 0.3195

Jupiter 29483-06-01 15:21 G 12489656.01 12489656.14 12489656.28 0.0509 0.0325

Jupiter 29483-08-30 21:07 G 12489746.30 12489746.38 12489746.46 0.0512 0.0452

Uranus 29483-11-27 08:38 G 12489834.81 12489834.86 12489834.91 0.0134 0.0127

Uranus 29484-02-23 14:24 G 12489923.00 12489923.10 12489923.22 0.0134 0.0105

Moon 29484-03-28 02:24 G 12489956.52 12489956.60 12489956.68 0.2670 0.1906

Earth 29484-03-28 02:53 G 12489956.54 12489956.62 12489956.69 0.2664 0.1953 *

Uranus 29484-05-21 20:38 G 12490011.22 12490011.36 12490011.50 0.0134 0.0082

Uranus 29484-08-18 02:24 G 12490099.45 12490099.60 12490099.77 0.0134 0.0060

Uranus	29484-11-14 08:24 G	12490187.68	12490187.85	12490188.02	0.0134	0.0037
Uranus	29485-02-10 14:24 G	12490275.92	12490276.10	12490276.27	0.0134	0.0015
Uranus	29485-05-09 20:09 G	12490364.16	12490364.34	12490364.51	0.0133	0.0007
Uranus	29485-08-06 01:55 G	12490452.41	12490452.58	12490452.75	0.0133	0.0028
Uranus	29485-11-02 07:26 G	12490540.65	12490540.81	12490540.98	0.0133	0.0050
Uranus	29486-01-29 12:57 G	12490628.90	12490629.04	12490629.20	0.0133	0.0072
Uranus	29486-04-27 18:43 G	12490717.16	12490717.28	12490717.41	0.0133	0.0092
Uranus	29486-07-25 00:14 G	12490805.43	12490805.51	12490805.61	0.0133	0.0113
Venus	29487-04-17 05:17 G	12491071.59	12491071.72	12491071.85	0.3690	0.0949
Venus	29488-10-28 20:38 G	12491632.26	12491632.36	12491632.47	0.3680	0.1364
Jupiter	29489-01-19 23:45 G	12491715.36	12491715.49	12491715.62	0.0517	0.0109
Jupiter	29489-04-19 06:57 G	12491804.75	12491804.79	12491804.83	0.0514	0.0486
Mars	29491-02-19 08:38 G	12492475.81	12492475.86	12492475.91	0.1763	0.1637
Moon	29491-03-22 00:57 G	12492506.47	12492506.54	12492506.61	0.2658	0.2080
Earth	29491-03-22 01:26 G	12492506.48	12492506.56	12492506.63	0.2663	0.1989 *
Mars	29491-12-14 05:31 G	12492773.64	12492773.73	12492773.83	0.1774	0.1146
Venus	29492-10-31 04:33 G	12493095.58	12493095.69	12493095.81	0.3691	0.1826
Saturn	29493-05-23 07:26 G	12493299.78	12493299.81	12493299.84	0.0264	0.0256
Saturn	29493-08-19 18:00 G	12493388.14	12493388.25	12493388.36	0.0264	0.0161
Saturn	29493-11-16 04:48 G	12493476.57	12493476.70	12493476.84	0.0264	0.0065
Saturn	29494-02-12 15:50 G	12493565.02	12493565.16	12493565.30	0.0264	0.0033
Saturn	29494-05-12 02:53 G	12493653.50	12493653.62	12493653.74	0.0264	0.0132
Venus	29494-05-14 15:07 G	12493656.01	12493656.13	12493656.24	0.3680	0.0545
Saturn	29494-08-08 14:09 G	12493742.02	12493742.09	12493742.16	0.0263	0.0231
Pluto	29494-12-08 20:09 G	12493864.27	12493864.34	12493864.46	0.0074	0.0065
Pluto	29495-03-06 23:02 G	12493952.32	12493952.46	12493952.63	0.0074	0.0047
Pluto	29495-06-03 01:41 G	12494040.40	12494040.57	12494040.77	0.0074	0.0029
Jupiter	29495-06-18 19:26 G	12494056.17	12494056.31	12494056.46	0.0512	0.0263
Pluto	29495-08-30 04:33 G	12494128.50	12494128.69	12494128.89	0.0074	0.0011
Pluto	29495-11-26 07:12 G	12494216.60	12494216.80	12494217.00	0.0074	0.0007

Pluto 29496-02-22 09:50 G 12494304.72 12494304.91 12494305.10 0.0074 0.0024

Pluto 29496-05-20 12:00 G 12494392.85 12494393.00 12494393.18 0.0073 0.0042

Pluto 29496-08-16 14:38 G 12494481.00 12494481.11 12494481.24 0.0073 0.0059

Venus 29499-11-28 09:36 G 12495679.82 12495679.90 12495679.99 0.3679 0.2499

Jupiter 29500-11-09 03:50 G 12496025.55 12496025.66 12496025.78 0.0518 0.0253

Jupiter 29501-02-06 10:48 G 12496114.86 12496114.95 12496115.06 0.0514 0.0341

Moon 29504-03-24 18:29 G 12497257.16 12497257.27 12497257.38 0.2661 0.0642

Earth 29504-03-24 19:12 G 12497257.20 12497257.30 12497257.41 0.2663 0.0609 *

Jupiter 29507-04-07 18:14 G 12498366.09 12498366.26 12498366.44 0.0511 0.0079

Saturn 29508-09-18 05:45 G 12498895.63 12498895.74 12498895.85 0.0297 0.0227

Saturn 29508-12-16 04:33 G 12498984.52 12498984.69 12498984.86 0.0297 0.0047

Saturn 29509-03-15 02:38 G 12499073.46 12499073.61 12499073.77 0.0297 0.0129

Mars 29511-11-09 04:33 G 12500042.59 12500042.69 12500042.79 0.1780 0.1291

Jupiter 29512-08-28 07:12 G 12500335.72 12500335.80 12500335.88 0.0519 0.0412

Mars 29512-09-01 13:12 G 12500339.95 12500340.05 12500340.15 0.1758 0.0992

Jupiter 29512-11-25 14:09 G 12500424.96 12500425.09 12500425.21 0.0516 0.0179

Moon 29514-09-23 18:29 G 12501092.12 12501092.27 12501092.41 0.2672 0.0896

Earth 29514-09-23 19:41 G 12501092.17 12501092.32 12501092.47 0.2668 0.0628 *

Moon 29517-03-27 12:43 G 12502007.93 12502008.03 12502008.14 0.2667 0.0684

Earth 29517-03-27 13:26 G 12502007.95 12502008.06 12502008.17 0.2664 0.0816 *

Jupiter 29519-01-24 16:48 G 12502676.03 12502676.20 12502676.37 0.0510 0.0110

Mars 29521-03-31 06:57 G 12503472.64 12503472.79 12503472.94 0.1772 0.0096

Mars 29522-01-22 21:21 G 12503770.26 12503770.39 12503770.51 0.1766 0.0014

Saturn 29523-01-07 20:53 G 12504120.28 12504120.37 12504120.48 0.0264 0.0184

Saturn 29523-04-06 07:55 G 12504208.70 12504208.83 12504208.96 0.0264 0.0088

Saturn 29523-07-03 18:43 G 12504297.14 12504297.28 12504297.42 0.0263 0.0010

Saturn 29523-09-30 05:45 G 12504385.61 12504385.74 12504385.87 0.0263 0.0108

Saturn 29523-12-27 17:02 G 12504474.13 12504474.21 12504474.30 0.0263 0.0208

Jupiter 29524-09-13 18:00 G 12504735.12 12504735.25 12504735.38 0.0516 0.0031

Uranus 29526-08-19 05:17 G 12505439.69 12505439.72 12505439.76 0.0144 0.0139

Uranus 29526-11-15 09:07 G 12505527.81 12505527.88 12505527.97 0.0145 0.0118

Uranus 29527-02-11 13:26 G 12505615.96 12505616.06 12505616.17 0.0145 0.0096

Uranus 29527-05-10 17:45 G 12505704.12 12505704.24 12505704.36 0.0145 0.0074

Uranus 29527-08-06 21:50 G 12505792.28 12505792.41 12505792.55 0.0145 0.0052

Moon 29527-09-27 00:00 G 12505843.41 12505843.50 12505843.60 0.2674 0.2048

Earth 29527-09-27 00:43 G 12505843.43 12505843.53 12505843.62 0.2668 0.2024 *

Uranus 29527-11-03 02:09 G 12505880.45 12505880.59 12505880.73 0.0145 0.0030

Uranus 29528-01-30 06:29 G 12505968.63 12505968.77 12505968.91 0.0145 0.0008

Uranus 29528-04-27 10:48 G 12506056.81 12506056.95 12506057.09 0.0145 0.0016

Uranus 29528-07-24 15:07 G 12506144.99 12506145.13 12506145.26 0.0145 0.0038

Uranus 29528-10-20 19:26 G 12506233.18 12506233.31 12506233.44 0.0145 0.0061

Uranus 29529-01-16 23:45 G 12506321.38 12506321.49 12506321.61 0.0145 0.0084

Uranus 29529-04-15 04:05 G 12506409.58 12506409.67 12506409.77 0.0145 0.0107

Uranus 29529-07-12 08:38 G 12506497.80 12506497.86 12506497.92 0.0145 0.0130

Moon 29530-03-30 07:26 G 12506758.75 12506758.81 12506758.87 0.2670 0.2238

Earth 29530-03-30 07:41 G 12506758.76 12506758.82 12506758.88 0.2664 0.2254 *

Mars 29530-08-21 09:07 G 12506902.80 12506902.88 12506902.97 0.1763 0.1449

Jupiter 29530-11-12 14:24 G 12506985.96 12506986.10 12506986.24 0.0509 0.0311

Jupiter 29531-02-10 19:55 G 12507076.26 12507076.33 12507076.40 0.0512 0.0465

Mars 29531-06-15 05:31 G 12507200.63 12507200.73 12507200.84 0.1774 0.1017

Jupiter 29536-07-02 22:19 G 12509045.30 12509045.43 12509045.56 0.0517 0.0110

Jupiter 29536-09-30 05:31 G 12509134.69 12509134.73 12509134.77 0.0514 0.0486

Moon 29537-03-23 05:45 G 12509308.65 12509308.74 12509308.82 0.2658 0.1729

Earth 29537-03-23 06:14 G 12509308.67 12509308.76 12509308.84 0.2663 0.1705 *

Saturn 29538-02-05 04:05 G 12509627.62 12509627.67 12509627.72 0.0297 0.0284

Neptune 29538-05-02 17:02 G 12509714.15 12509714.21 12509714.29 0.0089 0.0082

Saturn 29538-05-05 02:53 G 12509716.46 12509716.62 12509716.78 0.0297 0.0103

Venus 29538-05-09 05:02 G 12509720.63 12509720.71 12509720.79 0.3690 0.2885

Neptune 29538-07-29 20:24 G 12509802.25 12509802.35 12509802.45 0.0089 0.0072

Saturn 29538-08-02 01:12 G 12509805.39 12509805.55 12509805.72 0.0297 0.0074

Neptune 29538-10-25 23:02 G 12509890.35 12509890.46 12509890.61 0.0089 0.0063

Saturn 29538-10-29 23:02 G 12509894.37 12509894.46 12509894.56 0.0297 0.0248

Neptune 29539-01-22 02:24 G 12509978.46 12509978.60 12509978.76 0.0089 0.0053

Neptune 29539-04-20 05:31 G 12510066.58 12510066.73 12510066.90 0.0089 0.0043

Neptune 29539-07-17 08:53 G 12510154.70 12510154.87 12510155.04 0.0089 0.0033

Neptune 29539-10-13 11:45 G 12510242.82 12510242.99 12510243.17 0.0089 0.0024

Venus 29539-11-21 00:43 G 12510281.45 12510281.53 12510281.61 0.3681 0.2570

Neptune 29540-01-09 14:53 G 12510330.94 12510331.12 12510331.30 0.0089 0.0014

Neptune 29540-04-06 18:00 G 12510419.07 12510419.25 12510419.43 0.0089 0.0004

Neptune 29540-07-03 21:07 G 12510507.20 12510507.38 12510507.56 0.0089 0.0006

Neptune 29540-09-30 00:00 G 12510595.33 12510595.50 12510595.68 0.0089 0.0015

Neptune 29540-12-27 02:53 G 12510683.46 12510683.62 12510683.80 0.0089 0.0025

Neptune 29541-03-25 06:00 G 12510771.59 12510771.75 12510771.92 0.0089 0.0034

Neptune 29541-06-21 08:53 G 12510859.72 12510859.87 12510860.04 0.0089 0.0044

Neptune 29541-09-17 12:00 G 12510947.86 12510948.00 12510948.15 0.0089 0.0053

Neptune 29541-12-14 15:07 G 12511036.00 12511036.13 12511036.25 0.0089 0.0063

Neptune 29542-03-12 17:45 G 12511124.15 12511124.24 12511124.36 0.0089 0.0072

Neptune 29542-06-08 20:53 G 12511212.31 12511212.37 12511212.44 0.0089 0.0081

Jupiter 29542-08-31 12:00 G 12511296.00 12511296.00 12511296.02 0.0508 0.0507

Jupiter 29542-11-29 18:14 G 12511386.12 12511386.26 12511386.41 0.0511 0.0276

Venus 29543-11-23 04:48 G 12511744.57 12511744.70 12511744.83 0.3691 0.0072

Venus 29545-06-05 18:57 G 12512305.17 12512305.29 12512305.40 0.3680 0.0735

Jupiter 29548-04-21 02:38 G 12513355.50 12513355.61 12513355.73 0.0518 0.0247

Jupiter 29548-07-19 09:36 G 12513444.81 12513444.90 12513445.00 0.0515 0.0346

Venus 29549-06-08 04:05 G 12513768.59 12513768.67 12513768.76 0.3692 0.2732

Moon 29550-03-25 23:31 G 12514059.37 12514059.48 12514059.59 0.2662 0.0477

Earth 29550-03-26 00:14 G 12514059.40 12514059.51 12514059.62 0.2663 0.0317 *

Venus 29550-12-20 13:12 G 12514328.95 12514329.05 12514329.16 0.3680 0.1204

Mars 29551-05-10 04:48 G 12514469.62 12514469.70 12514469.78 0.1781 0.1451

Mars 29552-03-02 13:12 G 12514766.96 12514767.05 12514767.15 0.1758 0.1136

Saturn 29552-05-26 22:33 G 12514852.37 12514852.44 12514852.52 0.0264 0.0219

Saturn 29552-08-23 09:21 G 12514940.77 12514940.89 12514941.02 0.0264 0.0124

Saturn 29552-11-19 20:09 G 12515029.21 12515029.34 12515029.48 0.0264 0.0028

Saturn 29553-02-16 07:12 G 12515117.67 12515117.80 12515117.94 0.0263 0.0071

Saturn 29553-05-15 18:14 G 12515206.16 12515206.26 12515206.37 0.0263 0.0170

Jupiter 29554-09-17 16:48 G 12515696.03 12515696.20 12515696.37 0.0511 0.0085

Venus 29556-07-05 07:55 G 12516352.78 12516352.83 12516352.89 0.3679 0.3194

Jupiter 29560-02-08 06:57 G 12517665.70 12517665.79 12517665.87 0.0518 0.0389

Jupiter 29560-05-07 13:41 G 12517754.95 12517755.07 12517755.19 0.0515 0.0202

Moon 29560-09-24 00:43 G 12517894.38 12517894.53 12517894.68 0.2672 0.0173

Earth 29560-09-24 02:09 G 12517894.43 12517894.59 12517894.74 0.2668 0.0123 *

Mars 29560-09-29 07:26 G 12517899.66 12517899.81 12517899.96 0.1772 0.0105

Mars 29561-07-23 21:21 G 12518197.27 12518197.39 12518197.52 0.1766 0.0135

Moon 29563-03-28 17:45 G 12518810.14 12518810.24 12518810.34 0.2668 0.1094

Earth 29563-03-28 18:14 G 12518810.16 12518810.26 12518810.36 0.2663 0.1109 *

Jupiter 29566-07-06 15:36 G 12520005.98 12520006.15 12520006.32 0.0510 0.0099

Saturn 29567-09-21 23:17 G 12520448.33 12520448.47 12520448.61 0.0297 0.0173

Uranus 29567-12-18 15:36 G 12520536.09 12520536.15 12520536.24 0.0134 0.0121

Saturn 29567-12-19 21:50 G 12520537.24 12520537.41 12520537.59 0.0297 0.0009

Uranus 29568-03-15 21:50 G 12520624.30 12520624.41 12520624.54 0.0134 0.0098

Saturn 29568-03-17 19:55 G 12520626.20 12520626.33 12520626.47 0.0297 0.0183

Uranus 29568-06-12 03:50 G 12520712.52 12520712.66 12520712.81 0.0134 0.0075

Uranus 29568-09-08 09:50 G 12520800.75 12520800.91 12520801.08 0.0134 0.0053

Uranus 29568-12-05 15:50 G 12520888.99 12520889.16 12520889.33 0.0134 0.0031

Uranus 29569-03-03 21:36 G 12520977.23 12520977.40 12520977.58 0.0133 0.0009

Uranus 29569-05-31 03:21 G 12521065.47 12521065.64 12521065.82 0.0133 0.0013

Uranus 29569-08-27 09:07 G 12521153.71 12521153.88 12521154.05 0.0133 0.0035

Uranus 29569-11-23 14:38 G 12521241.96 12521242.11 12521242.28 0.0133 0.0057

Mars 29570-02-19 09:36 G 12521329.80 12521329.90 12521330.00 0.1763 0.1271

Uranus 29570-02-19 20:24 G 12521330.21 12521330.35 12521330.50 0.0133 0.0078

Uranus 29570-05-19 02:09 G 12521418.47 12521418.59 12521418.70 0.0133 0.0099

Uranus 29570-08-15 07:26 G 12521506.75 12521506.81 12521506.89 0.0133 0.0120

Mars 29570-12-14 05:45 G 12521627.63 12521627.74 12521627.85 0.1774 0.0880

Jupiter 29572-02-24 16:48 G 12522065.07 12522065.20 12522065.34 0.0516 0.0042

Moon 29573-09-27 06:43 G 12522645.72 12522645.78 12522645.84 0.2674 0.2428

Earth 29573-09-27 06:57 G 12522645.74 12522645.79 12522645.83 0.2668 0.2528 *

Moon 29576-03-30 12:29 G 12523560.98 12523561.02 12523561.05 0.2670 0.2508

Earth 29576-03-30 12:29 G 12523560.99 12523561.02 12523561.05 0.2664 0.2553 *

Jupiter 29578-04-24 13:55 G 12524315.94 12524316.08 12524316.23 0.0509 0.0287

Jupiter 29578-07-23 19:41 G 12524406.27 12524406.32 12524406.37 0.0512 0.0490

Saturn 29581-10-14 01:41 G 12525584.52 12525584.57 12525584.62 0.0264 0.0243

Saturn 29582-01-10 12:14 G 12525672.90 12525673.01 12525673.13 0.0264 0.0148

Saturn 29582-04-08 23:02 G 12525761.33 12525761.46 12525761.60 0.0263 0.0052

Saturn 29582-07-06 10:05 G 12525849.78 12525849.92 12525850.06 0.0263 0.0046

Saturn 29582-10-02 21:07 G 12525938.26 12525938.38 12525938.50 0.0263 0.0145

Saturn 29582-12-30 08:24 G 12526026.80 12526026.85 12526026.90 0.0263 0.0244

Moon 29583-03-24 10:19 G 12526110.84 12526110.93 12526111.03 0.2659 0.1525

Earth 29583-03-24 11:02 G 12526110.86 12526110.96 12526111.05 0.2663 0.1414 *

Jupiter 29583-12-13 20:53 G 12526375.24 12526375.37 12526375.50 0.0517 0.0107

Jupiter 29584-03-12 04:05 G 12526464.63 12526464.67 12526464.71 0.0514 0.0489

Jupiter 29590-02-10 11:17 G 12528625.93 12528625.97 12528626.03 0.0508 0.0487

Jupiter 29590-05-11 17:31 G 12528716.09 12528716.23 12528716.37 0.0511 0.0293

Mars 29590-11-08 05:31 G 12528896.67 12528896.73 12528896.78 0.1781 0.1647

Mars 29591-09-01 13:12 G 12529193.97 12529194.05 12529194.14 0.1758 0.1264

Moon 29593-09-22 01:41 G 12529945.52 12529945.57 12529945.62 0.2670 0.2494

Earth 29593-09-22 03:07 G 12529945.56 12529945.63 12529945.71 0.2668 0.2288 *

Venus 29594-12-14 04:48 G 12530393.59 12530393.70 12530393.81 0.3690 0.1906

Jupiter 29595-10-02 01:12 G 12530685.43 12530685.55 12530685.66 0.0518 0.0247

Jupiter 29595-12-30 08:09 G 12530774.74 12530774.84 12530774.94 0.0515 0.0347

Moon 29596-03-26 04:19 G 12530861.57 12530861.68 12530861.79 0.2663 0.0069

Earth 29596-03-26 05:02 G 12530861.60 12530861.71 12530861.82 0.2663 0.0034 *

Venus 29596-06-26 22:48 G 12530954.35 12530954.45 12530954.55 0.3681 0.1935

Saturn 29597-02-07 21:36 G 12531180.29 12531180.40 12531180.51 0.0297 0.0230

Saturn 29597-05-07 20:24 G 12531269.18 12531269.35 12531269.52 0.0297 0.0049

Saturn 29597-08-04 18:43 G 12531358.13 12531358.28 12531358.43 0.0298 0.0128

Mars 29600-03-30 07:41 G 12532326.67 12532326.82 12532326.97 0.1772 0.0271

Venus 29600-06-29 04:19 G 12532417.56 12532417.68 12532417.81 0.3691 0.0935

Mars 29601-01-21 21:36 G 12532624.27 12532624.40 12532624.52 0.1766 0.0265

Venus 29602-01-10 17:02 G 12532978.10 12532978.21 12532978.32 0.3680 0.0074

Jupiter 29602-02-27 15:50 G 12533025.99 12533026.16 12533026.33 0.0511 0.0102

Venus 29606-01-13 03:36 G 12534441.63 12534441.65 12534441.67 0.3692 0.3627

Moon 29606-09-25 07:26 G 12534696.66 12534696.81 12534696.96 0.2673 0.0225

Earth 29606-09-25 08:24 G 12534696.70 12534696.85 12534697.00 0.2668 0.0434 *

Jupiter 29607-07-21 05:31 G 12534995.65 12534995.73 12534995.82 0.0519 0.0384

Venus 29607-07-27 11:31 G 12535001.88 12535001.98 12535002.08 0.3679 0.1878

Jupiter 29607-10-18 12:29 G 12535084.90 12535085.02 12535085.14 0.0516 0.0208

Moon 29609-03-28 22:33 G 12535612.34 12535612.44 12535612.54 0.2669 0.1265

Earth 29609-03-28 23:17 G 12535612.37 12535612.47 12535612.56 0.2663 0.1407 *

Mars 29609-08-20 10:05 G 12535756.80 12535756.92 12535757.04 0.1764 0.1096

Mars 29610-06-14 05:45 G 12536054.63 12536054.74 12536054.86 0.1774 0.0743

Uranus 29610-09-08 12:14 G 12536140.97 12536141.01 12536141.07 0.0144 0.0134

Uranus 29610-12-05 16:19 G 12536229.10 12536229.18 12536229.27 0.0144 0.0113

Uranus 29611-03-03 20:38 G 12536317.25 12536317.36 12536317.47 0.0145 0.0091

Saturn 29611-05-30 13:55 G 12536404.98 12536405.08 12536405.18 0.0264 0.0184

Uranus 29611-05-31 00:43 G 12536405.41 12536405.53 12536405.66 0.0145 0.0069

Saturn 29611-08-27 00:29 G 12536493.40 12536493.52 12536493.66 0.0263 0.0089

Uranus 29611-08-27 04:48 G 12536493.58 12536493.70 12536493.84 0.0145 0.0048 *

Uranus 29611-11-23 09:07 G 12536581.74 12536581.88 12536582.02 0.0145 0.0025

Saturn 29611-11-23 11:31 G 12536581.84 12536581.98 12536582.12 0.0263 0.0009 *

Uranus 29612-02-19 13:26 G 12536669.92 12536670.06 12536670.20 0.0145 0.0003

Saturn 29612-02-19 22:33 G 12536670.31 12536670.44 12536670.57 0.0263 0.0107

Uranus 29612-05-17 17:45 G 12536758.10 12536758.24 12536758.38 0.0145 0.0020

Saturn 29612-05-18 09:36 G 12536758.82 12536758.90 12536758.99 0.0263 0.0206

Uranus 29612-08-13 21:50 G 12536846.28 12536846.41 12536846.55 0.0145 0.0043

Uranus 29612-11-10 02:24 G 12536934.47 12536934.60 12536934.73 0.0145 0.0065

Uranus 29613-02-06 06:43 G 12537022.67 12537022.78 12537022.90 0.0145 0.0088

Uranus 29613-05-05 11:17 G 12537110.88 12537110.97 12537111.06 0.0145 0.0111

Uranus 29613-08-01 15:21 G 12537199.10 12537199.14 12537199.20 0.0145 0.0135

Jupiter 29613-12-16 14:09 G 12537335.91 12537336.09 12537336.26 0.0510 0.0090

Moon 29616-03-21 21:50 G 12538162.37 12538162.41 12538162.44 0.2657 0.2499

Earth 29616-03-21 21:50 G 12538162.38 12538162.41 12538162.45 0.2663 0.2504 *

Neptune 29618-11-15 10:48 G 12539130.91 12539130.95 12539131.00 0.0088 0.0084

Neptune 29619-02-11 12:14 G 12539218.95 12539219.01 12539219.08 0.0088 0.0077

Neptune 29619-05-10 13:41 G 12539306.99 12539307.07 12539307.16 0.0088 0.0070

Neptune 29619-08-06 15:07 G 12539395.04 12539395.13 12539395.24 0.0088 0.0063

Jupiter 29619-08-06 16:33 G 12539395.06 12539395.19 12539395.32 0.0516 0.0067 *

Neptune 29619-11-02 16:33 G 12539483.09 12539483.19 12539483.31 0.0088 0.0056

Mars 29619-11-04 14:09 G 12539485.07 12539485.09 12539485.10 0.1782 0.1760

Neptune 29620-01-29 18:00 G 12539571.15 12539571.25 12539571.38 0.0088 0.0049

Neptune 29620-04-26 19:26 G 12539659.20 12539659.31 12539659.45 0.0088 0.0042

Neptune 29620-07-23 21:21 G 12539747.26 12539747.39 12539747.52 0.0088 0.0034

Neptune 29620-10-19 22:48 G 12539835.32 12539835.45 12539835.58 0.0088 0.0026

Neptune 29621-01-16 00:14 G 12539923.38 12539923.51 12539923.65 0.0088 0.0019

Neptune 29621-04-14 01:41 G 12540011.44 12540011.57 12540011.71 0.0088 0.0012

Neptune 29621-07-11 03:21 G 12540099.50 12540099.64 12540099.78 0.0088 0.0005

Neptune 29621-10-07 04:48 G 12540187.56 12540187.70 12540187.84 0.0088 0.0003

Neptune 29622-01-03 06:14 G 12540275.63 12540275.76 12540275.90 0.0088 0.0010

Neptune 29622-04-01 07:55 G 12540363.69 12540363.83 12540363.97 0.0088 0.0017

Neptune 29622-06-28 09:21 G 12540451.76 12540451.89 12540452.03 0.0088 0.0025

Neptune 29622-09-24 10:48 G 12540539.82 12540539.95 12540540.09 0.0088 0.0032

Neptune 29622-12-21 12:29 G 12540627.89 12540628.02 12540628.14 0.0088 0.0039

Neptune 29623-03-19 13:41 G 12540715.96 12540716.07 12540716.20 0.0088 0.0048

Neptune 29623-06-15 15:21 G 12540804.04 12540804.14 12540804.26 0.0088 0.0054

Neptune 29623-09-11 17:02 G 12540892.11 12540892.21 12540892.31 0.0088 0.0062

Neptune 29623-12-08 18:29 G 12540980.19 12540980.27 12540980.36 0.0088 0.0069

Neptune 29624-03-05 20:09 G 12541068.27 12541068.34 12541068.41 0.0088 0.0077

Neptune 29624-06-01 21:21 G 12541156.37 12541156.39 12541156.45 0.0088 0.0085

Jupiter 29625-10-04 12:57 G 12541645.89 12541646.04 12541646.19 0.0509 0.0273

Jupiter 29626-01-02 18:29 G 12541736.25 12541736.27 12541736.30 0.0512 0.0504

Saturn 29626-09-24 16:05 G 12542001.01 12542001.17 12542001.33 0.0297 0.0124

Saturn 29626-12-22 14:38 G 12542089.94 12542090.11 12542090.28 0.0297 0.0055

Saturn 29627-03-21 12:43 G 12542178.92 12542179.03 12542179.13 0.0298 0.0230

Moon 29629-03-24 15:07 G 12542913.03 12542913.13 12542913.23 0.2659 0.1193

Earth 29629-03-24 15:50 G 12542913.06 12542913.16 12542913.26 0.2663 0.1126 *

Mars 29631-03-02 13:26 G 12543620.98 12543621.06 12543621.13 0.1758 0.1400

Jupiter 29631-05-25 19:55 G 12543705.20 12543705.33 12543705.46 0.0517 0.0096

Jupiter 29631-08-23 03:07 G 12543794.60 12543794.63 12543794.66 0.0514 0.0500

Jupiter 29637-07-23 11:17 G 12545955.90 12545955.97 12545956.05 0.0508 0.0460

Jupiter 29637-10-21 17:31 G 12546046.09 12546046.23 12546046.36 0.0511 0.0321

Moon 29639-09-23 08:09 G 12546747.73 12546747.84 12546747.94 0.2671 0.1923

Earth 29639-09-23 09:36 G 12546747.79 12546747.90 12546748.01 0.2668 0.1752 *

Mars 29639-09-29 08:24 G 12546753.70 12546753.85 12546753.99 0.1773 0.0461

Mars 29640-07-22 21:36 G 12547051.28 12547051.40 12547051.52 0.1766 0.0400

Saturn 29640-10-16 16:33 G 12547137.11 12547137.19 12547137.28 0.0264 0.0210

Saturn 29641-01-13 03:21 G 12547225.52 12547225.64 12547225.76 0.0264 0.0114

Saturn 29641-04-11 14:09 G 12547313.95 12547314.09 12547314.23 0.0263 0.0017

Saturn 29641-07-09 01:12 G 12547402.41 12547402.55 12547402.68 0.0263 0.0081

Saturn 29641-10-05 12:14 G 12547490.91 12547491.01 12547491.11 0.0263 0.0180

Moon 29642-03-27 09:07 G 12547663.77 12547663.88 12547664.00 0.2665 0.0157

Earth 29642-03-27 09:50 G 12547663.80 12547663.91 12547664.02 0.2663 0.0279 *

Jupiter 29643-03-13 23:45 G 12548015.38 12548015.49 12548015.61 0.0518 0.0242

Jupiter 29643-06-11 06:57 G 12548104.69 12548104.79 12548104.88 0.0515 0.0352

Venus 29647-07-19 02:53 G 12549603.56 12549603.62 12549603.67 0.3681 0.3133

Mars 29649-02-18 10:33 G 12550183.81 12550183.94 12550184.07 0.1764 0.0910

Jupiter 29649-08-09 15:21 G 12550355.97 12550356.14 12550356.31 0.0510 0.0124

Mars 29649-12-13 05:45 G 12550481.63 12550481.74 12550481.86 0.1774 0.0617

Venus 29651-07-21 04:19 G 12551066.56 12551066.68 12551066.81 0.3690 0.0963

Uranus 29652-01-07 22:48 G 12551237.37 12551237.45 12551237.54 0.0134 0.0115

Uranus 29652-04-05 04:48 G 12551325.58 12551325.70 12551325.83 0.0134 0.0093

Uranus 29652-07-02 10:48 G 12551413.80 12551413.95 12551414.11 0.0134 0.0070

Moon 29652-09-25 13:55 G 12551498.94 12551499.08 12551499.22 0.2673 0.0887

Earth 29652-09-25 14:53 G 12551498.98 12551499.12 12551499.26 0.2668 0.0949 *

Uranus 29652-09-28 16:48 G 12551502.04 12551502.20 12551502.37 0.0134 0.0048

Uranus 29652-12-25 22:33 G 12551590.27 12551590.44 12551590.62 0.0134 0.0026

Venus 29653-01-31 20:53 G 12551627.26 12551627.37 12551627.47 0.3680 0.1310

Uranus 29653-03-24 04:33 G 12551678.51 12551678.69 12551678.87 0.0134 0.0004

Uranus 29653-06-20 10:19 G 12551766.76 12551766.93 12551767.10 0.0133 0.0018

Uranus 29653-09-16 16:05 G 12551855.00 12551855.17 12551855.34 0.0133 0.0040

Uranus 29653-12-13 21:36 G 12551943.25 12551943.40 12551943.56 0.0133 0.0062

Uranus 29654-03-12 03:21 G 12552031.51 12552031.64 12552031.78 0.0133 0.0083

Uranus 29654-06-08 08:53 G 12552119.77 12552119.87 12552119.98 0.0133 0.0104

Uranus 29654-09-04 14:24 G 12552208.05 12552208.10 12552208.16 0.0133 0.0125

Jupiter 29654-12-31 04:05 G 12552325.59 12552325.67 12552325.76 0.0519 0.0382

Moon 29655-03-30 03:36 G 12552414.56 12552414.65 12552414.74 0.2668 0.1697

Earth 29655-03-30 04:05 G 12552414.58 12552414.67 12552414.76 0.2663 0.1698 *

Jupiter 29655-03-30 11:02 G 12552414.84 12552414.96 12552415.08 0.0516 0.0210

Saturn 29656-02-11 14:24 G 12552732.97 12552733.10 12552733.24 0.0297 0.0181

Pluto 29656-03-08 10:33 G 12552758.91 12552758.94 12552759.00 0.0070 0.0065

Saturn 29656-05-10 13:12 G 12552821.88 12552822.05 12552822.22 0.0298 0.0002

Pluto 29656-06-04 11:17 G 12552846.90 12552846.97 12552847.06 0.0070 0.0055

Saturn 29656-08-07 11:17 G 12552910.84 12552910.97 12552911.11 0.0298 0.0176

Pluto 29656-08-31 12:00 G 12552934.90 12552935.00 12552935.10 0.0070 0.0045

Pluto 29656-11-27 12:14 G 12553022.91 12553023.01 12553023.14 0.0070 0.0036

Venus 29657-02-03 03:50 G 12553090.55 12553090.66 12553090.78 0.3691 0.1855

Pluto 29657-02-23 12:57 G 12553110.93 12553111.04 12553111.17 0.0070 0.0026

Pluto 29657-05-22 13:41 G 12553198.94 12553199.07 12553199.20 0.0070 0.0016

Pluto 29657-08-18 14:09 G 12553286.96 12553287.09 12553287.22 0.0070 0.0006

Pluto 29657-11-14 14:53 G 12553374.99 12553375.12 12553375.25 0.0070 0.0004

Pluto 29658-02-10 15:21 G 12553463.01 12553463.14 12553463.27 0.0070 0.0014

Pluto 29658-05-09 15:50 G 12553551.04 12553551.16 12553551.29 0.0071 0.0024

Pluto 29658-08-05 16:19 G 12553639.08 12553639.18 12553639.30 0.0071 0.0035

Venus 29658-08-17 15:07 G 12553651.02 12553651.13 12553651.25 0.3680 0.0609

Pluto 29658-11-01 16:48 G 12553727.11 12553727.20 12553727.31 0.0071 0.0045

Pluto 29659-01-28 17:31 G 12553815.16 12553815.23 12553815.32 0.0071 0.0055

Pluto 29659-04-26 18:14 G 12553903.21 12553903.26 12553903.31 0.0071 0.0065

Mars 29659-05-05 14:09 G 12553912.04 12553912.09 12553912.14 0.1782 0.1620

Jupiter 29661-05-28 13:26 G 12554665.89 12554666.06 12554666.23 0.0510 0.0070

Moon 29662-03-23 02:24 G 12554964.55 12554964.60 12554964.66 0.2657 0.2292

Earth 29662-03-23 02:53 G 12554964.56 12554964.62 12554964.67 0.2663 0.2219 *

Venus 29664-03-02 09:50 G 12555674.83 12555674.91 12555674.99 0.3679 0.2556

Jupiter 29666-10-19 08:38 G 12556635.86 12556635.86 12556635.87 0.0520 0.0518

Jupiter 29667-01-16 15:21 G 12556725.01 12556725.14 12556725.27 0.0517 0.0072

Saturn 29670-03-05 18:14 G 12557869.22 12557869.26 12557869.31 0.0264 0.0244

Saturn 29670-06-02 05:02 G 12557957.60 12557957.71 12557957.82 0.0264 0.0149

Saturn 29670-08-29 15:50 G 12558046.02 12558046.16 12558046.29 0.0263 0.0053

Mars 29670-08-31 13:41 G 12558048.01 12558048.07 12558048.13 0.1757 0.1549

Saturn 29670-11-26 02:38 G 12558134.47 12558134.61 12558134.75 0.0263 0.0045

Saturn 29671-02-22 13:41 G 12558222.95 12558223.07 12558223.19 0.0263 0.0143

Saturn 29671-05-22 00:43 G 12558311.49 12558311.53 12558311.59 0.0263 0.0243

Jupiter 29673-03-16 11:31 G 12558975.83 12558975.98 12558976.13 0.0509 0.0263

Moon 29675-03-25 20:09 G 12559715.23 12559715.34 12559715.44 0.2660 0.0930

Earth 29675-03-25 20:38 G 12559715.26 12559715.36 12559715.47 0.2663 0.0840 *

Jupiter 29678-11-04 19:41 G 12561035.19 12561035.32 12561035.45 0.0517 0.0070

Mars 29679-03-30 08:53 G 12561180.73 12561180.87 12561181.01 0.1773 0.0642

Mars 29680-01-21 21:36 G 12561478.28 12561478.40 12561478.52 0.1765 0.0533

Jupiter 29685-01-02 10:05 G 12563285.85 12563285.92 12563286.01 0.0509 0.0447

Jupiter 29685-04-02 16:19 G 12563376.05 12563376.18 12563376.31 0.0512 0.0335

Saturn 29685-06-30 09:50 G 12563464.83 12563464.91 12563465.00 0.0297 0.0257

Moon 29685-09-23 14:24 G 12563549.98 12563550.10 12563550.23 0.2671 0.1469

Earth 29685-09-23 15:50 G 12563550.03 12563550.16 12563550.30 0.2668 0.1228 *

Saturn 29685-09-27 08:53 G 12563553.70 12563553.87 12563554.04 0.0297 0.0076

Saturn 29685-12-25 07:12 G 12563642.64 12563642.80 12563642.96 0.0297 0.0103

Saturn 29686-03-24 05:02 G 12563731.66 12563731.71 12563731.78 0.0298 0.0277

Moon 29688-03-27 13:55 G 12564465.97 12564466.08 12564466.19 0.2666 0.0502

Earth 29688-03-27 14:38 G 12564466.00 12564466.11 12564466.22 0.2663 0.0573 *

Mars 29688-08-19 11:02 G 12564610.82 12564610.96 12564611.10 0.1764 0.0735

Mars 29689-06-13 06:00 G 12564908.63 12564908.75 12564908.87 0.1774 0.0475

Jupiter 29690-08-23 22:48 G 12565345.34 12565345.45 12565345.57 0.0518 0.0230

Jupiter 29690-11-21 06:00 G 12565434.65 12565434.75 12565434.84 0.0515 0.0364

Uranus 29694-09-28 18:57 G 12566842.24 12566842.29 12566842.35 0.0144 0.0131

Uranus 29694-12-25 23:02 G 12566930.38 12566930.46 12566930.56 0.0144 0.0110

Uranus 29695-03-24 03:21 G 12567018.53 12567018.64 12567018.75 0.0145 0.0088

Uranus 29695-06-20 07:26 G 12567106.69 12567106.81 12567106.94 0.0145 0.0066

Uranus 29695-09-16 11:31 G 12567194.85 12567194.98 12567195.12 0.0145 0.0045

Uranus 29695-12-13 15:50 G 12567283.02 12567283.16 12567283.30 0.0145 0.0022

Uranus 29696-03-10 20:09 G 12567371.20 12567371.34 12567371.48 0.0145 0.0001

Uranus 29696-06-07 00:29 G 12567459.38 12567459.52 12567459.66 0.0145 0.0023

Uranus 29696-09-03 04:33 G 12567547.56 12567547.69 12567547.83 0.0145 0.0046

Uranus 29696-11-30 09:07 G 12567635.75 12567635.88 12567636.00 0.0145 0.0068

Jupiter 29697-01-19 15:07 G 12567685.97 12567686.13 12567686.30 0.0511 0.0151

Uranus 29697-02-26 13:26 G 12567723.95 12567724.06 12567724.17 0.0145 0.0091

Uranus 29697-05-25 18:00 G 12567812.16 12567812.25 12567812.33 0.0145 0.0114

Uranus 29697-08-21 22:05 G 12567900.39 12567900.42 12567900.47 0.0145 0.0138

Moon 29698-09-26 20:38 G 12568301.24 12568301.36 12568301.49 0.2675 0.1412

Earth 29698-09-26 21:07 G 12568301.26 12568301.38 12568301.51 0.2668 0.1464 *

Mars 29698-11-03 14:09 G 12568339.03 12568339.09 12568339.16 0.1782 0.1496

Saturn 29699-10-20 07:41 G 12568689.72 12568689.82 12568689.92 0.0264 0.0176

Saturn 29700-01-16 18:14 G 12568778.13 12568778.26 12568778.40 0.0264 0.0081

Saturn 29700-04-15 05:17 G 12568866.58 12568866.72 12568866.86 0.0263 0.0018

Saturn 29700-07-12 16:19 G 12568955.05 12568955.18 12568955.30 0.0263 0.0116

Saturn 29700-10-09 03:21 G 12569043.56 12569043.64 12569043.72 0.0263 0.0215

Moon 29701-03-31 08:38 G 12569216.78 12569216.86 12569216.94 0.2669 0.1913

Earth 29701-03-31 08:53 G 12569216.80 12569216.87 12569216.95 0.2663 0.1999 *

Jupiter 29702-06-13 02:53 G 12569655.53 12569655.62 12569655.71 0.0519 0.0376

Venus 29702-08-12 04:05 G 12569715.60 12569715.67 12569715.75 0.3690 0.2920

Jupiter 29702-09-10 09:50 G 12569744.79 12569744.91 12569745.03 0.0516 0.0216

Neptune 29702-11-01 12:29 G 12569797.01 12569797.02 12569797.06 0.0089 0.0088

Neptune 29703-01-28 15:50 G 12569885.08 12569885.16 12569885.25 0.0089 0.0078

Neptune 29703-04-26 18:57 G 12569973.18 12569973.29 12569973.41 0.0089 0.0068

Neptune 29703-07-23 21:50 G 12570061.29 12570061.41 12570061.57 0.0089 0.0059

Neptune 29703-10-20 00:57 G 12570149.41 12570149.54 12570149.71 0.0089 0.0049

Neptune 29704-01-16 04:19 G 12570237.52 12570237.68 12570237.85 0.0089 0.0039

Venus 29704-02-24 00:57 G 12570276.46 12570276.54 12570276.62 0.3681 0.2518

Neptune 29704-04-13 07:26 G 12570325.64 12570325.81 12570325.99 0.0089 0.0029

Neptune 29704-07-10 10:33 G 12570413.77 12570413.94 12570414.12 0.0089 0.0020

Neptune 29704-10-06 13:41 G 12570501.89 12570502.07 12570502.25 0.0089 0.0010

Neptune 29705-01-02 16:48 G 12570590.02 12570590.20 12570590.38 0.0089 0.0000

Neptune 29705-03-31 19:41 G 12570678.15 12570678.32 12570678.51 0.0089 0.0010

Neptune 29705-06-27 22:48 G 12570766.28 12570766.45 12570766.63 0.0089 0.0019

Neptune 29705-09-24 01:41 G 12570854.41 12570854.57 12570854.75 0.0089 0.0029

Neptune 29705-12-21 04:48 G 12570942.54 12570942.70 12570942.87 0.0089 0.0038

Neptune 29706-03-19 07:41 G 12571030.68 12571030.82 12571030.98 0.0089 0.0048

Neptune 29706-06-15 10:48 G 12571118.82 12571118.95 12571119.09 0.0089 0.0057

Neptune 29706-09-11 13:26 G 12571206.96 12571207.06 12571207.20 0.0089 0.0067

Neptune 29706-12-08 16:33 G 12571295.11 12571295.19 12571295.29 0.0089 0.0076

Neptune 29707-03-06 19:41 G 12571383.28 12571383.32 12571383.37 0.0089 0.0085

Venus 29708-02-26 04:05 G 12571739.54 12571739.67 12571739.80 0.3691 0.0015

Moon 29708-03-24 07:12 G 12571766.72 12571766.80 12571766.88 0.2657 0.1928

Earth 29708-03-24 07:41 G 12571766.74 12571766.82 12571766.89 0.2663 0.1934 *

Jupiter 29708-11-08 12:57 G 12571995.86 12571996.04 12571996.21 0.0510 0.0048

Venus 29709-09-08 18:57 G 12572300.18 12572300.29 12572300.41 0.3680 0.0672

Mars 29710-03-02 13:26 G 12572475.03 12572475.06 12572475.10 0.1757 0.1675

Venus 29713-09-11 03:21 G 12573763.56 12573763.64 12573763.72 0.3691 0.2759

Jupiter 29714-04-01 07:12 G 12573965.79 12573965.80 12573965.81 0.0520 0.0516

Jupiter 29714-06-29 13:55 G 12574054.95 12574055.08 12574055.21 0.0517 0.0074

Saturn 29715-02-15 07:12 G 12574285.65 12574285.80 12574285.96 0.0297 0.0133

Venus 29715-03-25 13:26 G 12574323.95 12574324.06 12574324.17 0.3679 0.1264

Saturn 29715-05-15 06:00 G 12574374.58 12574374.75 12574374.92 0.0298 0.0048

Saturn 29715-08-12 03:50 G 12574463.55 12574463.66 12574463.78 0.0298 0.0223

Mars 29718-09-29 09:07 G 12575607.75 12575607.88 12575608.01 0.1773 0.0808

Mars 29719-07-23 21:50 G 12575905.30 12575905.41 12575905.53 0.1765 0.0676

Jupiter 29720-08-27 10:48 G 12576305.80 12576305.95 12576306.11 0.0509 0.0242

Venus 29720-10-08 08:09 G 12576347.79 12576347.84 12576347.89 0.3679 0.3255

Moon 29721-03-27 00:57 G 12576517.43 12576517.54 12576517.64 0.2662 0.0680

Earth 29721-03-27 01:26 G 12576517.45 12576517.56 12576517.67 0.2663 0.0556 *

Jupiter 29726-04-17 18:14 G 12578365.13 12578365.26 12578365.39 0.0517 0.0066

Mars 29728-02-19 11:31 G 12579037.84 12579037.98 12579038.12 0.1765 0.0557

Mars 29728-12-13 06:00 G 12579335.63 12579335.75 12579335.87 0.1773 0.0342

Saturn 29729-03-09 09:21 G 12579421.82 12579421.89 12579421.98 0.0264 0.0210

Saturn 29729-06-05 20:09 G 12579510.22 12579510.34 12579510.46 0.0263 0.0114

Saturn 29729-09-02 06:57 G 12579598.65 12579598.79 12579598.93 0.0263 0.0017

Saturn 29729-11-29 17:45 G 12579687.11 12579687.24 12579687.38 0.0263 0.0081

Saturn 29730-02-26 04:48 G 12579775.61 12579775.70 12579775.81 0.0263 0.0180

Moon 29731-09-25 21:07 G 12580352.23 12580352.38 12580352.52 0.2672 0.0792

Earth 29731-09-25 22:19 G 12580352.29 12580352.43 12580352.58 0.2668 0.0691 *

Jupiter 29732-06-15 08:38 G 12580615.78 12580615.86 12580615.95 0.0508 0.0437

Jupiter 29732-09-13 14:53 G 12580705.99 12580706.12 12580706.25 0.0511 0.0344

Moon 29734-03-29 18:57 G 12581268.18 12581268.29 12581268.40 0.2666 0.0751

Earth 29734-03-29 19:41 G 12581268.21 12581268.32 12581268.42 0.2663 0.0860 *

Uranus 29735-11-01 23:31 G 12581850.47 12581850.48 12581850.51 0.0134 0.0133

Uranus 29736-01-29 05:45 G 12581938.65 12581938.74 12581938.85 0.0134 0.0110

Uranus 29736-04-26 11:45 G 12582026.86 12582026.99 12582027.13 0.0134 0.0087

Uranus 29736-07-23 17:45 G 12582115.09 12582115.24 12582115.40 0.0134 0.0065

Uranus 29736-10-19 23:31 G 12582203.32 12582203.48 12582203.66 0.0134 0.0043

Uranus 29737-01-16 05:31 G 12582291.56 12582291.73 12582291.91 0.0134 0.0021

Uranus 29737-04-14 11:31 G 12582379.80 12582379.98 12582380.16 0.0134 0.0002

Uranus 29737-07-11 17:17 G 12582468.05 12582468.22 12582468.39 0.0134 0.0024

Uranus 29737-10-07 22:48 G 12582556.29 12582556.45 12582556.62 0.0134 0.0046

Uranus 29738-01-04 04:33 G 12582644.55 12582644.69 12582644.85 0.0133 0.0067

Jupiter 29738-02-03 22:33 G 12582675.32 12582675.44 12582675.56 0.0518 0.0206

Uranus 29738-04-02 10:05 G 12582732.80 12582732.92 12582733.06 0.0133 0.0088

Jupiter 29738-05-04 05:31 G 12582764.65 12582764.73 12582764.82 0.0515 0.0389

Mars 29738-05-05 14:09 G 12582766.02 12582766.09 12582766.17 0.1782 0.1362

Uranus 29738-06-29 15:36 G 12582821.07 12582821.15 12582821.26 0.0133 0.0110

Uranus 29738-09-25 21:07 G 12582909.36 12582909.38 12582909.43 0.0133 0.0130

Pluto 29742-01-19 03:50 G 12584120.65 12584120.66 12584120.71 0.0074 0.0074

Pluto 29742-04-17 06:29 G 12584208.65 12584208.77 12584208.92 0.0074 0.0056

Pluto 29742-07-14 09:21 G 12584296.72 12584296.89 12584297.07 0.0074 0.0037

Pluto 29742-10-10 12:00 G 12584384.81 12584385.00 12584385.20 0.0074 0.0019

Pluto 29743-01-06 14:38 G 12584472.91 12584473.11 12584473.31 0.0074 0.0002

Pluto 29743-04-04 17:17 G 12584561.03 12584561.22 12584561.42 0.0074 0.0016

Pluto 29743-07-01 19:41 G 12584649.15 12584649.32 12584649.51 0.0074 0.0034

Pluto 29743-09-27 21:50 G 12584737.29 12584737.41 12584737.58 0.0073 0.0052

Pluto 29743-12-25 00:29 G 12584825.47 12584825.52 12584825.61 0.0073 0.0069

Jupiter 29744-07-02 13:55 G 12585015.92 12585016.08 12585016.25 0.0511 0.0165

Saturn 29744-07-04 02:38 G 12585017.49 12585017.61 12585017.74 0.0297 0.0209

Moon 29744-09-28 03:07 G 12585103.53 12585103.63 12585103.73 0.2675 0.1911

Earth 29744-09-28 03:21 G 12585103.54 12585103.64 12585103.74 0.2668 0.1979 *

Saturn 29744-10-01 01:26 G 12585106.39 12585106.56 12585106.74 0.0297 0.0030

Saturn 29744-12-28 23:45 G 12585195.35 12585195.49 12585195.64 0.0297 0.0150

Moon 29747-04-01 13:41 G 12586019.02 12586019.07 12586019.12 0.2670 0.2312

Earth 29747-04-01 13:55 G 12586019.02 12586019.08 12586019.13 0.2663 0.2294 *

Jupiter 29749-11-23 01:55 G 12586985.49 12586985.58 12586985.68 0.0518 0.0364

Jupiter 29750-02-20 08:38 G 12587074.75 12587074.86 12587074.99 0.0515 0.0229

Moon 29754-03-25 12:00 G 12588568.92 12588569.00 12588569.08 0.2657 0.1754

Earth 29754-03-25 12:29 G 12588568.93 12588569.02 12588569.10 0.2663 0.1643 *

Jupiter 29756-04-20 12:43 G 12589325.85 12589326.03 12589326.20 0.0510 0.0022

Mars 29758-03-30 09:36 G 12590034.78 12590034.90 12590035.02 0.1773 0.0991

Saturn 29758-07-27 12:00 G 12590153.95 12590154.00 12590154.06 0.0264 0.0238

Saturn 29758-10-23 22:48 G 12590242.33 12590242.45 12590242.56 0.0264 0.0142

Saturn 29759-01-20 09:21 G 12590330.76 12590330.89 12590331.03 0.0264 0.0046

Mars 29759-01-21 21:50 G 12590332.30 12590332.41 12590332.52 0.1765 0.0803

Venus 29759-03-19 03:50 G 12590388.55 12590388.66 12590388.78 0.3690 0.1932

Saturn 29759-04-18 20:24 G 12590419.21 12590419.35 12590419.49 0.0263 0.0053

Saturn 29759-07-16 07:26 G 12590507.70 12590507.81 12590507.92 0.0263 0.0152

Saturn 29759-10-12 18:29 G 12590596.24 12590596.27 12590596.32 0.0263 0.0252

Venus 29760-09-29 23:02 G 12590949.36 12590949.46 12590949.56 0.3681 0.1883

Jupiter 29761-09-11 06:00 G 12591295.73 12591295.75 12591295.77 0.0519 0.0510

Jupiter 29761-12-09 12:43 G 12591384.90 12591385.03 12591385.16 0.0516 0.0080

Venus 29764-10-02 03:36 G 12592412.53 12592412.65 12592412.78 0.3691 0.0946

Venus 29766-04-15 17:17 G 12592973.11 12592973.22 12592973.33 0.3680 0.0027

Moon 29767-03-28 05:45 G 12593319.62 12593319.74 12593319.85 0.2663 0.0326

Earth 29767-03-28 06:29 G 12593319.66 12593319.77 12593319.88 0.2663 0.0267 *

Mars 29767-08-20 12:00 G 12593464.85 12593465.00 12593465.15 0.1764 0.0373

Jupiter 29768-02-07 10:19 G 12593635.77 12593635.93 12593636.09 0.0509 0.0221

Mars 29768-06-13 06:00 G 12593762.63 12593762.75 12593762.88 0.1773 0.0217

Venus 29770-04-18 02:53 G 12594436.61 12594436.62 12594436.63 0.3691 0.3663

Venus 29771-10-30 11:45 G 12594996.89 12594996.99 12594997.08 0.3679 0.1943

Jupiter 29773-09-27 16:48 G 12595695.07 12595695.20 12595695.33 0.0517 0.0063

Saturn 29773-11-21 01:41 G 12595749.49 12595749.57 12595749.65 0.0297 0.0262

Saturn 29774-02-18 00:43 G 12595838.36 12595838.53 12595838.69 0.0297 0.0080

Saturn 29774-05-17 23:02 G 12595927.30 12595927.46 12595927.62 0.0298 0.0099

Saturn 29774-08-14 20:53 G 12596016.31 12596016.37 12596016.44 0.0298 0.0274

Mars 29777-01-09 14:09 G 12596895.08 12596895.09 12596895.09 0.1756 0.1753

Moon 29777-09-26 03:50 G 12597154.51 12597154.66 12597154.81 0.2673 0.0387

Earth 29777-09-26 04:48 G 12597154.55 12597154.70 12597154.85 0.2668 0.0160 *

Mars 29777-11-03 14:24 G 12597193.01 12597193.10 12597193.19 0.1781 0.1218

Uranus 29778-10-20 02:09 G 12597543.53 12597543.59 12597543.66 0.0144 0.0127

Uranus 29779-01-16 06:00 G 12597631.67 12597631.75 12597631.85 0.0144 0.0106

Uranus 29779-04-14 10:19 G 12597719.82 12597719.93 12597720.05 0.0145 0.0084

Uranus 29779-07-11 14:24 G 12597807.98 12597808.10 12597808.23 0.0145 0.0062

Uranus 29779-10-07 18:43 G 12597896.14 12597896.28 12597896.41 0.0145 0.0040

Jupiter 29779-11-26 07:55 G 12597945.74 12597945.83 12597945.94 0.0508 0.0417

Uranus 29780-01-03 22:48 G 12597984.31 12597984.45 12597984.59 0.0145 0.0018

Jupiter 29780-02-24 14:09 G 12598035.97 12598036.09 12598036.21 0.0511 0.0362

Moon 29780-03-30 00:00 G 12598070.39 12598070.50 12598070.60 0.2667 0.1069

Earth 29780-03-30 00:29 G 12598070.42 12598070.52 12598070.62 0.2663 0.1154 *

Uranus 29780-04-01 03:07 G 12598072.49 12598072.63 12598072.77 0.0145 0.0005

Uranus 29780-06-28 07:26 G 12598160.67 12598160.81 12598160.95 0.0145 0.0027

Uranus 29780-09-24 11:45 G 12598248.86 12598248.99 12598249.12 0.0145 0.0050

Uranus 29780-12-21 15:50 G 12598337.05 12598337.16 12598337.29 0.0145 0.0073

Uranus 29781-03-19 20:09 G 12598425.24 12598425.34 12598425.46 0.0145 0.0096

Uranus 29781-06-16 00:29 G 12598513.45 12598513.52 12598513.62 0.0145 0.0119

Uranus 29781-09-12 05:02 G 12598601.69 12598601.71 12598601.75 0.0145 0.0142

Neptune 29783-05-17 08:53 G 12599213.87 12599213.87 12599213.88 0.0088 0.0088

Neptune 29783-08-13 10:05 G 12599301.88 12599301.92 12599301.99 0.0088 0.0082

Neptune 29783-11-09 12:00 G 12599389.92 12599390.00 12599390.07 0.0088 0.0074

Neptune 29784-02-05 13:26 G 12599477.97 12599478.06 12599478.15 0.0088 0.0067

Neptune 29784-05-03 14:53 G 12599566.02 12599566.12 12599566.22 0.0088 0.0060

Neptune 29784-07-30 16:05 G 12599654.07 12599654.17 12599654.29 0.0088 0.0053

Neptune 29784-10-26 17:45 G 12599742.12 12599742.24 12599742.36 0.0088 0.0045

Neptune 29785-01-22 19:12 G 12599830.18 12599830.30 12599830.43 0.0088 0.0038

Neptune 29785-04-20 20:53 G 12599918.24 12599918.37 12599918.50 0.0088 0.0031

Jupiter 29785-07-16 21:07 G 12600005.26 12600005.38 12600005.51 0.0518 0.0203

Neptune 29785-07-17 22:19 G 12600006.30 12600006.43 12600006.56 0.0088 0.0024

Neptune 29785-10-13 23:45 G 12600094.36 12600094.49 12600094.63 0.0088 0.0016

Jupiter 29785-10-14 04:19 G 12600094.59 12600094.68 12600094.76 0.0515 0.0393 *

Neptune 29786-01-10 01:12 G 12600182.42 12600182.55 12600182.69 0.0088 0.0010

Neptune 29786-04-08 02:53 G 12600270.48 12600270.62 12600270.76 0.0088 0.0002

Neptune 29786-07-05 04:19 G 12600358.54 12600358.68 12600358.82 0.0088 0.0006

Neptune 29786-10-01 05:45 G 12600446.61 12600446.74 12600446.88 0.0088 0.0013

Neptune 29786-12-28 07:12 G 12600534.67 12600534.80 12600534.94 0.0088 0.0021

Neptune 29787-03-26 08:53 G 12600622.74 12600622.87 12600623.00 0.0088 0.0028

Neptune 29787-06-22 10:19 G 12600710.81 12600710.93 12600711.06 0.0088 0.0035

Neptune 29787-09-18 11:45 G 12600798.88 12600798.99 12600799.12 0.0088 0.0043

Neptune 29787-12-15 13:12 G 12600886.95 12600887.05 12600887.18 0.0088 0.0050

Saturn 29788-03-12 00:43 G 12600974.43 12600974.53 12600974.63 0.0264 0.0174

Neptune 29788-03-12 14:53 G 12600975.02 12600975.12 12600975.23 0.0088 0.0057

Saturn 29788-06-08 11:31 G 12601062.85 12601062.98 12601063.11 0.0263 0.0078

Neptune 29788-06-08 16:33 G 12601063.10 12601063.19 12601063.29 0.0088 0.0065 *

Neptune 29788-09-04 18:00 G 12601151.18 12601151.25 12601151.34 0.0088 0.0072

Saturn 29788-09-04 22:19 G 12601151.29 12601151.43 12601151.57 0.0263 0.0020 *

Neptune 29788-12-01 19:41 G 12601239.26 12601239.32 12601239.38 0.0088 0.0080

Saturn 29788-12-02 09:21 G 12601239.76 12601239.89 12601240.01 0.0263 0.0118

Neptune 29789-02-27 20:53 G 12601327.37 12601327.37 12601327.41 0.0088 0.0088

Saturn 29789-02-28 20:24 G 12601328.27 12601328.35 12601328.43 0.0263 0.0218

Moon 29790-09-29 09:36 G 12601905.85 12601905.90 12601905.95 0.2675 0.2520

Earth 29790-09-29 09:50 G 12601905.86 12601905.91 12601905.96 0.2668 0.2495 *

Jupiter 29791-12-13 12:29 G 12602345.85 12602346.02 12602346.18 0.0511 0.0171

Moon 29793-04-01 18:43 G 12602821.25 12602821.28 12602821.30 0.2670 0.2579

Earth 29793-04-01 18:43 G 12602821.26 12602821.28 12602821.30 0.2663 0.2591 *

Jupiter 29797-05-05 01:26 G 12604315.47 12604315.56 12604315.66 0.0519 0.0343

Jupiter 29797-08-02 08:24 G 12604404.73 12604404.85 12604404.97 0.0516 0.0250

Mars 29797-09-28 10:05 G 12604461.81 12604461.92 12604462.03 0.1773 0.1180

Mars 29798-07-22 22:05 G 12604759.31 12604759.42 12604759.52 0.1765 0.0946

Moon 29800-03-26 16:48 G 12605371.10 12605371.20 12605371.29 0.2658 0.1367

Earth 29800-03-26 17:17 G 12605371.12 12605371.22 12605371.31 0.2663 0.1359 *

Saturn 29803-07-08 20:24 G 12606570.20 12606570.35 12606570.50 0.0297 0.0155

Jupiter 29803-10-02 11:17 G 12606655.80 12606655.97 12606656.15 0.0510 0.0012

Saturn 29803-10-05 18:57 G 12606659.12 12606659.29 12606659.46 0.0297 0.0025

Saturn 29804-01-02 17:02 G 12606748.09 12606748.21 12606748.34 0.0297 0.0202

Mars 29807-02-19 12:29 G 12607891.87 12607892.02 12607892.17 0.1765 0.0196

Mars 29807-12-14 06:14 G 12608189.63 12608189.76 12608189.88 0.1773 0.0081

Jupiter 29809-02-22 05:02 G 12608625.68 12608625.71 12608625.74 0.0519 0.0498

Jupiter 29809-05-22 11:45 G 12608714.86 12608714.99 12608715.12 0.0516 0.0092

Earth 29810-09-25 05:45 G 12609205.67 12609205.74 12609205.80 0.2669 0.2376

Venus 29811-10-23 03:07 G 12609598.57 12609598.63 12609598.69 0.3681 0.3075

Moon 29813-03-29 10:33 G 12610121.83 12610121.94 12610122.05 0.2663 0.0135

Earth 29813-03-29 11:17 G 12610121.86 12610121.97 12610122.08 0.2663 0.0037 *

Jupiter 29815-07-21 09:50 G 12610965.74 12610965.91 12610966.07 0.0509 0.0199

Venus 29815-10-25 03:36 G 12611061.53 12611061.65 12611061.78 0.3690 0.0946

Mars 29816-07-11 14:38 G 12611322.04 12611322.11 12611322.18 0.1756 0.1564

Mars 29817-05-05 14:24 G 12611620.00 12611620.10 12611620.19 0.1781 0.1098

Venus 29817-05-07 21:07 G 12611622.28 12611622.38 12611622.49 0.3680 0.1241

Saturn 29817-07-31 03:21 G 12611706.55 12611706.64 12611706.72 0.0264 0.0203

Saturn 29817-10-27 13:55 G 12611794.96 12611795.08 12611795.21 0.0264 0.0106

Saturn 29818-01-24 00:43 G 12611883.39 12611883.53 12611883.67 0.0264 0.0011

Saturn 29818-04-22 11:45 G 12611971.86 12611971.99 12611972.12 0.0263 0.0090

Saturn 29818-07-19 22:48 G 12612060.36 12612060.45 12612060.55 0.0263 0.0190

Uranus 29819-11-23 06:00 G 12612551.72 12612551.75 12612551.81 0.0134 0.0129

Uranus 29820-02-19 12:14 G 12612639.91 12612640.01 12612640.12 0.0134 0.0106

Uranus 29820-05-17 18:29 G 12612728.13 12612728.27 12612728.41 0.0134 0.0083

Uranus 29820-08-14 00:14 G 12612816.36 12612816.51 12612816.67 0.0134 0.0061

Uranus 29820-11-10 06:14 G 12612904.59 12612904.76 12612904.93 0.0134 0.0038

Uranus 29821-02-06 12:14 G 12612992.83 12612993.01 12612993.18 0.0134 0.0016

Jupiter 29821-03-10 15:36 G 12613025.02 12613025.15 12613025.28 0.0517 0.0060

Uranus 29821-05-05 18:00 G 12613081.08 12613081.25 12613081.43 0.0134 0.0006

Venus 29821-05-10 03:07 G 12613085.52 12613085.63 12613085.74 0.3691 0.1888

Uranus 29821-08-01 23:45 G 12613169.32 12613169.49 12613169.66 0.0134 0.0028

Uranus 29821-10-29 05:17 G 12613257.57 12613257.72 12613257.89 0.0134 0.0050

Uranus 29822-01-25 11:17 G 12613345.82 12613345.97 12613346.12 0.0134 0.0071

Uranus 29822-04-23 16:33 G 12613434.08 12613434.19 12613434.33 0.0134 0.0093

Uranus 29822-07-20 22:05 G 12613522.35 12613522.42 12613522.53 0.0134 0.0114

Venus 29822-11-21 15:36 G 12613646.03 12613646.15 12613646.26 0.3680 0.0680

Moon 29823-09-28 10:19 G 12613956.78 12613956.93 12613957.08 0.2674 0.0357

Earth 29823-09-28 11:02 G 12613956.81 12613956.96 12613957.12 0.2668 0.0367 *

Moon 29826-04-01 05:02 G 12614872.61 12614872.71 12614872.80 0.2668 0.1425

Earth 29826-04-01 05:17 G 12614872.63 12614872.72 12614872.82 0.2663 0.1456 *

Jupiter 29827-05-09 07:12 G 12615275.69 12615275.80 12615275.91 0.0508 0.0399

Jupiter 29827-08-07 13:12 G 12615365.94 12615366.05 12615366.17 0.0511 0.0380

Venus 29828-06-06 10:05 G 12615669.84 12615669.92 12615670.00 0.3679 0.2637

Saturn 29832-11-24 19:41 G 12617302.19 12617302.32 12617302.45 0.0297 0.0205

Jupiter 29832-12-27 19:41 G 12617335.20 12617335.32 12617335.44 0.0518 0.0203

Saturn 29833-02-21 18:29 G 12617391.10 12617391.27 12617391.44 0.0297 0.0024

Moon 29833-03-25 04:05 G 12617422.63 12617422.67 12617422.71 0.2655 0.2414

Earth 29833-03-25 04:19 G 12617422.63 12617422.68 12617422.72 0.2662 0.2445 *

Jupiter 29833-03-27 02:38 G 12617424.52 12617424.61 12617424.69 0.0515 0.0392

Saturn 29833-05-21 16:48 G 12617480.05 12617480.20 12617480.35 0.0298 0.0154

Mars 29837-03-30 10:33 G 12618888.84 12618888.94 12618889.03 0.1773 0.1342

Mars 29838-01-21 22:05 G 12619186.32 12619186.42 12619186.52 0.1765 0.1085

Jupiter 29839-05-26 11:17 G 12619675.81 12619675.97 12619676.14 0.0510 0.0187

Jupiter 29844-10-16 00:00 G 12621645.40 12621645.50 12621645.60 0.0519 0.0342

Jupiter 29845-01-13 06:43 G 12621734.67 12621734.78 12621734.90 0.0516 0.0252

Moon 29846-03-27 21:36 G 12622173.30 12622173.40 12622173.50 0.2660 0.1214

Earth 29846-03-27 22:05 G 12622173.32 12622173.42 12622173.52 0.2662 0.1072 *

Mars 29846-08-20 12:57 G 12622318.89 12622319.04 12622319.19 0.1765 0.0049

Saturn 29846-12-18 05:31 G 12622438.67 12622438.73 12622438.80 0.0264 0.0232

Saturn 29847-03-16 16:19 G 12622527.06 12622527.18 12622527.30 0.0264 0.0136

Saturn 29847-06-13 03:07 G 12622615.49 12622615.63 12622615.77 0.0263 0.0039

Mars 29847-06-14 06:14 G 12622616.64 12622616.76 12622616.89 0.1773 0.0077

Saturn 29847-09-09 13:55 G 12622703.95 12622704.08 12622704.22 0.0263 0.0059

Saturn 29847-12-07 00:57 G 12622792.43 12622792.54 12622792.65 0.0263 0.0158

Saturn 29848-03-04 12:14 G 12622880.99 12622881.01 12622881.03 0.0263 0.0258

Jupiter 29851-03-14 09:21 G 12623985.71 12623985.89 12623986.07 0.0510 0.0008

Mars 29856-01-10 15:07 G 12625749.04 12625749.13 12625749.23 0.1757 0.1379

Jupiter 29856-08-04 04:19 G 12625955.64 12625955.68 12625955.73 0.0519 0.0482

Moon 29856-09-25 10:33 G 12626007.84 12626007.94 12626008.05 0.2671 0.1961

Earth 29856-09-25 12:00 G 12626007.90 12626008.00 12626008.11 0.2669 0.1842 *

Jupiter 29856-11-01 11:02 G 12626044.83 12626044.96 12626045.09 0.0516 0.0109

Mars 29856-11-03 14:24 G 12626047.00 12626047.10 12626047.20 0.1781 0.0960

Moon 29859-03-30 15:21 G 12626924.03 12626924.14 12626924.25 0.2664 0.0284

Earth 29859-03-30 16:05 G 12626924.06 12626924.17 12626924.28 0.2663 0.0330 *

Saturn 29862-04-13 15:36 G 12628034.10 12628034.15 12628034.22 0.0296 0.0277

Saturn 29862-07-11 14:53 G 12628122.95 12628123.12 12628123.28 0.0297 0.0094

Uranus 29862-08-14 05:17 G 12628156.71 12628156.72 12628156.75 0.0144 0.0142

Saturn 29862-10-08 13:12 G 12628211.89 12628212.05 12628212.22 0.0297 0.0086

Uranus 29862-11-10 09:21 G 12628244.82 12628244.89 12628244.97 0.0144 0.0121

Jupiter 29862-12-31 07:55 G 12628295.67 12628295.83 12628296.00 0.0509 0.0194

Saturn 29863-01-05 11:17 G 12628300.89 12628300.97 12628301.05 0.0297 0.0261

Uranus 29863-02-06 13:26 G 12628332.97 12628333.06 12628333.17 0.0144 0.0100

Uranus 29863-05-05 17:45 G 12628421.12 12628421.24 12628421.36 0.0144 0.0078

Uranus 29863-08-01 21:50 G 12628509.28 12628509.41 12628509.54 0.0145 0.0056

Uranus 29863-10-29 01:55 G 12628597.45 12628597.58 12628597.72 0.0145 0.0035

Uranus 29864-01-25 06:14 G 12628685.62 12628685.76 12628685.90 0.0145 0.0012

Uranus 29864-04-22 10:33 G 12628773.80 12628773.94 12628774.08 0.0145 0.0011

Uranus 29864-07-19 14:38 G 12628861.98 12628862.11 12628862.25 0.0145 0.0033

Uranus 29864-10-15 18:57 G 12628950.16 12628950.29 12628950.42 0.0145 0.0056

Uranus 29865-01-11 23:17 G 12629038.35 12629038.47 12629038.59 0.0145 0.0078

Uranus 29865-04-10 03:36 G 12629126.56 12629126.65 12629126.76 0.0145 0.0101

Uranus 29865-07-07 07:55 G 12629214.77 12629214.83 12629214.91 0.0145 0.0125

Venus 29866-11-15 03:21 G 12629710.56 12629710.64 12629710.72 0.3690 0.2930

Neptune 29867-07-30 11:45 G 12629967.94 12629967.99 12629968.06 0.0089 0.0083

Neptune 29867-10-26 14:53 G 12630056.03 12630056.12 12630056.23 0.0089 0.0073

Neptune 29868-01-22 18:14 G 12630144.13 12630144.26 12630144.39 0.0089 0.0063

Neptune 29868-04-19 21:07 G 12630232.25 12630232.38 12630232.54 0.0089 0.0054

Venus 29868-05-29 01:12 G 12630271.47 12630271.55 12630271.63 0.3681 0.2447

Neptune 29868-07-17 00:14 G 12630320.36 12630320.51 12630320.68 0.0089 0.0044

Jupiter 29868-08-20 14:24 G 12630354.97 12630355.10 12630355.23 0.0517 0.0049

Neptune 29868-10-13 03:21 G 12630408.48 12630408.64 12630408.82 0.0089 0.0034

Neptune 29869-01-09 06:43 G 12630496.60 12630496.78 12630496.95 0.0089 0.0024

Neptune 29869-04-07 09:36 G 12630584.73 12630584.90 12630585.09 0.0089 0.0015

Neptune 29869-07-04 12:57 G 12630672.86 12630673.04 12630673.22 0.0089 0.0005

Moon 29869-09-28 16:48 G 12630759.05 12630759.20 12630759.34 0.2675 0.0690

Earth 29869-09-28 17:31 G 12630759.09 12630759.23 12630759.37 0.2669 0.0885 *

Neptune 29869-09-30 15:50 G 12630760.98 12630761.16 12630761.34 0.0089 0.0005

Neptune 29869-12-27 18:57 G 12630849.11 12630849.29 12630849.47 0.0089 0.0014

Neptune 29870-03-25 21:50 G 12630937.24 12630937.41 12630937.59 0.0089 0.0024

Neptune 29870-06-22 00:43 G 12631025.38 12631025.53 12631025.71 0.0089 0.0034

Neptune 29870-09-18 03:50 G 12631113.51 12631113.66 12631113.83 0.0089 0.0043

Neptune 29870-12-15 06:43 G 12631201.65 12631201.78 12631201.94 0.0089 0.0053

Neptune 29871-03-13 09:50 G 12631289.79 12631289.91 12631290.04 0.0089 0.0062

Neptune 29871-06-09 12:57 G 12631377.94 12631378.04 12631378.15 0.0089 0.0072

Neptune 29871-09-05 15:36 G 12631466.09 12631466.15 12631466.24 0.0089 0.0081

Moon 29872-04-01 09:50 G 12631674.83 12631674.91 12631675.00 0.2669 0.1655

Earth 29872-04-01 10:19 G 12631674.84 12631674.93 12631675.01 0.2663 0.1749 *

Venus 29872-05-31 03:21 G 12631734.51 12631734.64 12631734.77 0.3691 0.0054

Venus 29873-12-12 19:26 G 12632295.19 12632295.31 12632295.42 0.3680 0.0595

Jupiter 29874-10-19 06:14 G 12632605.65 12632605.76 12632605.88 0.0509 0.0383

Jupiter 29875-01-17 12:29 G 12632695.91 12632696.02 12632696.13 0.0512 0.0399

Saturn 29876-05-06 08:09 G 12633170.82 12633170.84 12633170.86 0.0265 0.0261

Saturn 29876-08-02 18:57 G 12633259.18 12633259.29 12633259.39 0.0264 0.0165

Mars 29876-09-28 11:02 G 12633315.89 12633315.96 12633316.03 0.1774 0.1529

Saturn 29876-10-30 05:31 G 12633347.60 12633347.73 12633347.87 0.0264 0.0068

Saturn 29877-01-26 16:33 G 12633436.05 12633436.19 12633436.33 0.0264 0.0031

Saturn 29877-04-25 03:36 G 12633524.53 12633524.65 12633524.77 0.0264 0.0130

Saturn 29877-07-22 14:38 G 12633613.05 12633613.11 12633613.18 0.0263 0.0230

Mars 29877-07-22 22:05 G 12633613.33 12633613.42 12633613.51 0.1764 0.1218

Venus 29877-12-15 02:38 G 12633758.53 12633758.61 12633758.70 0.3691 0.2811

Moon 29879-03-26 08:53 G 12634224.81 12634224.87 12634224.93 0.2656 0.2211

Earth 29879-03-26 09:07 G 12634224.81 12634224.88 12634224.94 0.2662 0.2163 *

Venus 29879-06-28 13:41 G 12634318.97 12634319.07 12634319.18 0.3680 0.1341

Jupiter 29880-06-08 18:14 G 12634665.14 12634665.26 12634665.38 0.0518 0.0198

Jupiter 29880-09-06 01:12 G 12634754.47 12634754.55 12634754.64 0.0515 0.0395

Venus 29885-01-11 08:09 G 12636342.80 12636342.84 12636342.89 0.3679 0.3331

Mars 29886-02-18 13:26 G 12636745.91 12636746.06 12636746.21 0.1765 0.0168

Jupiter 29886-11-05 10:05 G 12637005.77 12637005.92 12637006.09 0.0511 0.0200

Mars 29886-12-13 06:14 G 12637043.64 12637043.76 12637043.89 0.1773 0.0197

Saturn 29891-11-28 14:53 G 12638854.96 12638855.12 12638855.27 0.0297 0.0139

Saturn 29892-02-25 13:26 G 12638943.89 12638944.06 12638944.23 0.0297 0.0041

Jupiter 29892-03-27 22:19 G 12638975.33 12638975.43 12638975.53 0.0519 0.0344

Moon 29892-03-28 02:09 G 12638975.49 12638975.59 12638975.70 0.2661 0.0843 *

Earth 29892-03-28 02:53 G 12638975.52 12638975.62 12638975.73 0.2663 0.0789 *

Saturn 29892-05-24 11:31 G 12639032.87 12639032.98 12639033.10 0.0298 0.0218

Jupiter 29892-06-25 05:02 G 12639064.60 12639064.71 12639064.83 0.0516 0.0249

Mars 29895-07-11 15:21 G 12640176.04 12640176.14 12640176.25 0.1757 0.1219

Mars 29896-05-04 14:38 G 12640474.00 12640474.11 12640474.22 0.1781 0.0819

Jupiter 29898-08-24 08:09 G 12641315.66 12641315.84 12641316.01 0.0510 0.0006

Moon 29902-09-27 17:17 G 12642810.10 12642810.22 12642810.35 0.2673 0.1488

Earth 29902-09-27 18:43 G 12642810.14 12642810.28 12642810.41 0.2669 0.1290 *

Pluto 29903-04-20 21:50 G 12643015.38 12643015.41 12643015.47 0.0069 0.0066

Pluto 29903-07-17 22:33 G 12643103.37 12643103.44 12643103.53 0.0070 0.0056

Pluto 29903-10-13 23:17 G 12643191.38 12643191.47 12643191.57 0.0070 0.0046

Uranus 29903-12-14 12:43 G 12643252.98 12643253.03 12643253.11 0.0134 0.0124

Pluto 29904-01-09 23:31 G 12643279.39 12643279.48 12643279.61 0.0070 0.0037

Jupiter 29904-01-16 02:38 G 12643285.57 12643285.61 12643285.66 0.0520 0.0484

Uranus 29904-03-11 18:57 G 12643341.18 12643341.29 12643341.42 0.0134 0.0101

Pluto 29904-04-07 00:14 G 12643367.40 12643367.51 12643367.64 0.0070 0.0027

Jupiter 29904-04-14 09:21 G 12643374.76 12643374.89 12643375.02 0.0517 0.0106

Uranus 29904-06-08 01:12 G 12643429.41 12643429.55 12643429.70 0.0134 0.0078

Pluto 29904-07-04 00:57 G 12643455.42 12643455.54 12643455.67 0.0070 0.0017

Uranus 29904-09-04 06:57 G 12643517.64 12643517.79 12643517.96 0.0134 0.0056

Pluto 29904-09-30 01:26 G 12643543.44 12643543.56 12643543.70 0.0070 0.0008

Uranus 29904-12-01 12:57 G 12643605.88 12643606.04 12643606.22 0.0134 0.0034

Pluto 29904-12-27 02:09 G 12643631.46 12643631.59 12643631.72 0.0070 0.0003

Uranus 29905-02-27 18:57 G 12643694.12 12643694.29 12643694.47 0.0134 0.0011

Pluto 29905-03-25 02:38 G 12643719.49 12643719.61 12643719.74 0.0070 0.0013

Moon 29905-03-31 20:24 G 12643726.24 12643726.35 12643726.46 0.2665 0.0464

Earth 29905-03-31 21:07 G 12643726.27 12643726.38 12643726.48 0.2663 0.0626 *

Uranus 29905-05-27 00:57 G 12643782.36 12643782.54 12643782.71 0.0134 0.0011

Pluto 29905-06-21 03:07 G 12643807.51 12643807.63 12643807.76 0.0070 0.0024

Uranus 29905-08-23 06:43 G 12643870.61 12643870.78 12643870.95 0.0134 0.0033

Pluto 29905-09-17 03:36 G 12643895.55 12643895.65 12643895.78 0.0071 0.0034

Uranus 29905-11-19 12:14 G 12643958.86 12643959.01 12643959.18 0.0134 0.0055

Pluto 29905-12-14 04:19 G 12643983.58 12643983.68 12643983.79 0.0071 0.0044

Saturn 29905-12-21 21:36 G 12643991.30 12643991.40 12643991.49 0.0264 0.0191

Uranus 29906-02-15 18:00 G 12644047.11 12644047.25 12644047.40 0.0134 0.0076

Pluto 29906-03-12 05:02 G 12644071.63 12644071.71 12644071.79 0.0071 0.0054

Saturn 29906-03-20 08:09 G 12644079.71 12644079.84 12644079.97 0.0264 0.0095

Uranus 29906-05-14 23:31 G 12644135.37 12644135.48 12644135.61 0.0134 0.0098

Pluto 29906-06-08 05:17 G 12644159.68 12644159.72 12644159.79 0.0071 0.0065

Saturn 29906-06-16 18:57 G 12644168.15 12644168.29 12644168.43 0.0263 0.0006

Uranus 29906-08-11 05:02 G 12644223.65 12644223.71 12644223.80 0.0134 0.0119

Saturn 29906-09-13 06:00 G 12644256.62 12644256.75 12644256.88 0.0263 0.0102

Saturn 29906-12-10 17:02 G 12644345.12 12644345.21 12644345.30 0.0263 0.0202

Jupiter 29910-06-13 05:45 G 12645625.58 12645625.74 12645625.91 0.0509 0.0195

Moon 29915-09-30 23:17 G 12647561.34 12647561.47 12647561.60 0.2675 0.1420

Earth 29915-10-01 00:00 G 12647561.37 12647561.50 12647561.63 0.2669 0.1411 *

Jupiter 29916-02-01 13:26 G 12647684.93 12647685.06 12647685.20 0.0517 0.0039

Mars 29916-03-30 11:31 G 12647742.94 12647742.98 12647743.01 0.1774 0.1711

Mars 29917-01-21 22:05 G 12648040.35 12648040.42 12648040.50 0.1764 0.1352

Moon 29918-04-03 14:53 G 12648477.05 12648477.12 12648477.19 0.2669 0.2068

Earth 29918-04-03 15:07 G 12648477.06 12648477.13 12648477.20 0.2663 0.2040 *

Venus 29919-06-21 05:17 G 12648920.71 12648920.72 12648920.74 0.3681 0.3629

Saturn 29921-04-17 11:31 G 12649586.86 12649586.98 12649587.11 0.0296 0.0206

Saturn 29921-07-15 10:19 G 12649675.76 12649675.93 12649676.11 0.0297 0.0025

Saturn 29921-10-12 08:38 G 12649764.72 12649764.86 12649765.01 0.0297 0.0154

Jupiter 29922-04-01 04:19 G 12649935.56 12649935.68 12649935.79 0.0509 0.0382

Jupiter 29922-06-30 10:19 G 12650025.83 12650025.93 12650026.04 0.0512 0.0400

Venus 29923-06-23 03:07 G 12650383.52 12650383.63 12650383.74 0.3690 0.1932

Venus 29925-01-03 23:17 G 12650944.37 12650944.47 12650944.57 0.3681 0.1818

Moon 29925-03-27 13:26 G 12651026.99 12651027.06 12651027.14 0.2657 0.1919

Earth 29925-03-27 13:55 G 12651027.00 12651027.08 12651027.16 0.2662 0.1876 *

Mars 29925-08-20 13:41 G 12651172.93 12651173.07 12651173.22 0.1765 0.0341

Mars 29926-06-14 06:29 G 12651470.64 12651470.77 12651470.89 0.1773 0.0340

Jupiter 29927-11-20 17:02 G 12651995.09 12651995.21 12651995.33 0.0517 0.0191

Jupiter 29928-02-18 00:00 G 12652084.42 12652084.50 12652084.58 0.0514 0.0401

Venus 29929-01-06 02:53 G 12652407.50 12652407.62 12652407.75 0.3691 0.0977

Venus 29930-07-20 17:31 G 12652968.12 12652968.23 12652968.34 0.3680 0.0074

Jupiter 29934-04-18 08:53 G 12654335.72 12654335.87 12654336.03 0.0511 0.0212

Mars 29935-01-10 16:05 G 12654603.05 12654603.17 12654603.30 0.1757 0.1019

Saturn 29935-05-11 00:00 G 12654723.43 12654723.50 12654723.58 0.0265 0.0220

Saturn 29935-08-07 10:48 G 12654811.83 12654811.95 12654812.07 0.0265 0.0124

Saturn 29935-11-03 21:36 G 12654900.26 12654900.40 12654900.54 0.0264 0.0026

Mars 29935-11-04 14:38 G 12654900.99 12654901.11 12654901.22 0.1781 0.0695

Saturn 29936-01-31 08:24 G 12654988.72 12654988.85 12654988.99 0.0264 0.0074

Venus 29936-02-03 12:00 G 12654991.90 12654992.00 12654992.09 0.3680 0.2015

Saturn 29936-04-28 19:26 G 12655077.21 12655077.31 12655077.42 0.0264 0.0174

Moon 29938-03-30 07:12 G 12655777.69 12655777.80 12655777.90 0.2661 0.0643

Earth 29938-03-30 07:55 G 12655777.72 12655777.83 12655777.94 0.2662 0.0504 *

Jupiter 29939-09-08 20:53 G 12656305.27 12656305.37 12656305.47 0.0518 0.0340

Jupiter 29939-12-07 03:36 G 12656394.54 12656394.65 12656394.77 0.0515 0.0250

Mars 29945-03-26 22:48 G 12658331.42 12658331.45 12658331.49 0.1789 0.1715

Jupiter 29946-02-04 06:29 G 12658645.60 12658645.77 12658645.95 0.0510 0.0013

Uranus 29946-09-04 12:57 G 12658858.00 12658858.04 12658858.09 0.0144 0.0135

Uranus 29946-12-01 17:02 G 12658946.13 12658946.21 12658946.30 0.0144 0.0114

Uranus 29947-02-27 21:07 G 12659034.28 12659034.38 12659034.49 0.0144 0.0093

Uranus 29947-05-27 01:26 G 12659122.44 12659122.56 12659122.68 0.0144 0.0071

Uranus 29947-08-23 05:31 G 12659210.60 12659210.73 12659210.86 0.0145 0.0049

Uranus 29947-11-19 09:36 G 12659298.76 12659298.90 12659299.04 0.0145 0.0027

Neptune 29948-02-13 08:38 G 12659384.83 12659384.86 12659384.90 0.0088 0.0085

Uranus 29948-02-15 13:55 G 12659386.94 12659387.08 12659387.22 0.0145 0.0005

Neptune 29948-05-11 10:05 G 12659472.86 12659472.92 12659472.99 0.0088 0.0078

Uranus 29948-05-13 18:00 G 12659475.11 12659475.25 12659475.40 0.0145 0.0018

Neptune 29948-08-07 11:31 G 12659560.91 12659560.98 12659561.07 0.0088 0.0071

Uranus 29948-08-09 22:19 G 12659563.30 12659563.43 12659563.57 0.0145 0.0040

Moon 29948-09-27 23:45 G 12659612.35 12659612.49 12659612.64 0.2674 0.0917

Earth 29948-09-28 00:57 G 12659612.40 12659612.54 12659612.69 0.2669 0.0762 *

Neptune 29948-11-03 12:57 G 12659648.95 12659649.04 12659649.14 0.0088 0.0064

Uranus 29948-11-06 02:38 G 12659651.48 12659651.61 12659651.74 0.0145 0.0063

Neptune 29949-01-30 14:24 G 12659737.00 12659737.10 12659737.21 0.0088 0.0056

Uranus 29949-02-02 06:57 G 12659739.68 12659739.79 12659739.91 0.0145 0.0086

Neptune 29949-04-28 15:50 G 12659825.06 12659825.16 12659825.28 0.0088 0.0049

Uranus 29949-05-01 11:17 G 12659827.88 12659827.97 12659828.07 0.0145 0.0109

Neptune 29949-07-25 17:31 G 12659913.11 12659913.23 12659913.35 0.0088 0.0042

Uranus 29949-07-28 15:50 G 12659916.10 12659916.16 12659916.22 0.0145 0.0132

Neptune 29949-10-21 18:57 G 12660001.17 12660001.29 12660001.42 0.0088 0.0035

Neptune 29950-01-17 20:24 G 12660089.22 12660089.35 12660089.49 0.0088 0.0028

Neptune 29950-04-15 21:50 G 12660177.28 12660177.41 12660177.55 0.0088 0.0021

Neptune 29950-07-12 23:31 G 12660265.34 12660265.48 12660265.62 0.0088 0.0013

Saturn 29950-09-04 12:00 G 12660318.91 12660319.00 12660319.10 0.0297 0.0247

Neptune 29950-10-09 00:57 G 12660353.40 12660353.54 12660353.68 0.0088 0.0006

Saturn 29950-12-02 11:02 G 12660407.79 12660407.96 12660408.13 0.0297 0.0065

Neptune 29951-01-05 02:24 G 12660441.46 12660441.60 12660441.74 0.0088 0.0003

Saturn 29951-03-01 09:21 G 12660496.74 12660496.89 12660497.05 0.0297 0.0115

Moon 29951-04-02 01:12 G 12660528.45 12660528.55 12660528.66 0.2666 0.0880

Earth 29951-04-02 01:55 G 12660528.47 12660528.58 12660528.68 0.2663 0.0910 *

Neptune 29951-04-03 04:05 G 12660529.53 12660529.67 12660529.81 0.0088 0.0009

Saturn 29951-05-29 07:12 G 12660585.77 12660585.80 12660585.85 0.0298 0.0290

Jupiter 29951-06-28 00:43 G 12660615.49 12660615.53 12660615.58 0.0519 0.0489

Neptune 29951-06-30 05:31 G 12660617.59 12660617.73 12660617.87 0.0088 0.0016

Jupiter 29951-09-25 07:26 G 12660704.68 12660704.81 12660704.94 0.0516 0.0101

Neptune 29951-09-26 06:57 G 12660705.66 12660705.79 12660705.93 0.0088 0.0024

Neptune 29951-12-23 08:24 G 12660793.73 12660793.85 12660793.99 0.0088 0.0031

Neptune 29952-03-20 10:05 G 12660881.79 12660881.92 12660882.05 0.0088 0.0038

Neptune 29952-06-16 11:17 G 12660969.87 12660969.97 12660970.10 0.0088 0.0047

Neptune 29952-09-12 12:57 G 12661057.94 12661058.04 12661058.16 0.0088 0.0053

Neptune 29952-12-09 14:38 G 12661146.01 12661146.11 12661146.21 0.0088 0.0061

Neptune 29953-03-07 16:05 G 12661234.09 12661234.17 12661234.27 0.0088 0.0068

Neptune 29953-06-03 17:45 G 12661322.17 12661322.24 12661322.31 0.0088 0.0075

Neptune 29953-08-30 18:57 G 12661410.26 12661410.29 12661410.35 0.0088 0.0084

Mars 29956-07-22 22:19 G 12662467.37 12662467.43 12662467.50 0.1764 0.1500

Jupiter 29957-11-23 04:05 G 12662955.51 12662955.67 12662955.84 0.0509 0.0187

Moon 29961-10-01 06:00 G 12664363.65 12664363.75 12664363.86 0.2675 0.1842

Earth 29961-10-01 06:29 G 12664363.66 12664363.77 12664363.87 0.2669 0.1940 *

Jupiter 29963-07-14 11:31 G 12665014.85 12665014.98 12665015.12 0.0517 0.0044

Moon 29964-04-03 19:41 G 12665279.27 12665279.32 12665279.38 0.2669 0.2251

Earth 29964-04-03 19:55 G 12665279.28 12665279.33 12665279.38 0.2663 0.2338 *

Saturn 29964-09-27 03:07 G 12665455.58 12665455.63 12665455.68 0.0264 0.0244

Saturn 29964-12-24 13:41 G 12665543.96 12665544.07 12665544.19 0.0264 0.0148

Mars 29965-02-18 14:09 G 12665599.95 12665600.09 12665600.24 0.1766 0.0525

Saturn 29965-03-23 00:29 G 12665632.39 12665632.52 12665632.66 0.0264 0.0050

Saturn 29965-06-19 11:31 G 12665720.84 12665720.98 12665721.11 0.0264 0.0049

Saturn 29965-09-15 22:19 G 12665809.32 12665809.43 12665809.55 0.0263 0.0148

Mars 29965-12-13 06:29 G 12665897.65 12665897.77 12665897.89 0.1772 0.0473

Saturn 29965-12-13 09:36 G 12665897.86 12665897.90 12665897.95 0.0263 0.0249 *

Jupiter 29969-09-11 01:41 G 12667265.46 12667265.57 12667265.68 0.0508 0.0388

Jupiter 29969-12-10 07:55 G 12667355.72 12667355.83 12667355.94 0.0511 0.0393

Moon 29971-03-28 18:14 G 12667829.17 12667829.26 12667829.35 0.2658 0.1636

Earth 29971-03-28 18:43 G 12667829.19 12667829.28 12667829.37 0.2662 0.1592 *

Mars 29974-07-11 16:33 G 12669030.06 12669030.19 12669030.32 0.1757 0.0843

Jupiter 29975-05-02 15:50 G 12669325.04 12669325.16 12669325.28 0.0518 0.0184

Mars 29975-05-05 14:38 G 12669327.99 12669328.11 12669328.23 0.1781 0.0558

Jupiter 29975-07-30 22:48 G 12669414.37 12669414.45 12669414.53 0.0515 0.0409

Venus 29976-01-26 03:21 G 12669593.58 12669593.64 12669593.70 0.3681 0.3017

Venus 29980-01-28 02:53 G 12671056.49 12671056.62 12671056.74 0.3690 0.0944

Saturn 29980-04-20 08:38 G 12671139.70 12671139.86 12671140.02 0.0297 0.0125

Saturn 29980-07-18 07:12 G 12671228.63 12671228.80 12671228.97 0.0297 0.0055

Saturn 29980-10-15 05:17 G 12671317.62 12671317.72 12671317.83 0.0297 0.0231

Venus 29981-08-10 21:21 G 12671617.29 12671617.39 12671617.50 0.3681 0.1179

Jupiter 29981-09-28 06:29 G 12671665.62 12671665.77 12671665.93 0.0511 0.0208

Moon 29984-03-30 12:00 G 12672579.89 12672580.00 12672580.11 0.2661 0.0289

Earth 29984-03-30 12:43 G 12672579.92 12672580.03 12672580.14 0.2662 0.0210 *

Mars 29984-09-24 23:02 G 12672758.40 12672758.46 12672758.51 0.1789 0.1582

Venus 29985-08-13 02:24 G 12673080.49 12673080.60 12673080.71 0.3691 0.1910

Jupiter 29987-02-18 19:26 G 12673635.21 12673635.31 12673635.41 0.0518 0.0337

Venus 29987-02-24 15:36 G 12673641.04 12673641.15 12673641.26 0.3680 0.0735

Jupiter 29987-05-19 02:09 G 12673724.48 12673724.59 12673724.71 0.0515 0.0253

Uranus 29988-01-03 19:41 G 12673954.24 12673954.32 12673954.40 0.0134 0.0119

Uranus 29988-04-01 01:26 G 12674042.45 12674042.56 12674042.70 0.0134 0.0097

Uranus 29988-06-28 07:41 G 12674130.68 12674130.82 12674130.98 0.0134 0.0074

Uranus 29988-09-24 13:41 G 12674218.91 12674219.07 12674219.24 0.0134 0.0052

Uranus 29988-12-21 19:41 G 12674307.15 12674307.32 12674307.50 0.0134 0.0029

Uranus 29989-03-20 01:41 G 12674395.39 12674395.57 12674395.75 0.0134 0.0007

Pluto 29989-05-28 14:38 G 12674465.02 12674465.11 12674465.26 0.0074 0.0060

Uranus 29989-06-16 07:26 G 12674483.64 12674483.81 12674483.99 0.0134 0.0016

Pluto 29989-08-24 17:31 G 12674553.08 12674553.23 12674553.41 0.0074 0.0041

Uranus 29989-09-12 13:12 G 12674571.89 12674572.05 12674572.23 0.0134 0.0038

Pluto 29989-11-20 20:09 G 12674641.16 12674641.34 12674641.54 0.0074 0.0023

Uranus 29989-12-09 19:12 G 12674660.14 12674660.30 12674660.45 0.0134 0.0059

Pluto 29990-02-16 23:02 G 12674729.26 12674729.46 12674729.66 0.0074 0.0005

Uranus 29990-03-08 00:43 G 12674748.40 12674748.53 12674748.67 0.0134 0.0081

Pluto 29990-05-16 01:41 G 12674817.37 12674817.57 12674817.77 0.0074 0.0013

Uranus 29990-06-04 06:29 G 12674836.66 12674836.77 12674836.88 0.0134 0.0102

Pluto 29990-08-12 03:50 G 12674905.50 12674905.66 12674905.86 0.0074 0.0031

Uranus 29990-08-31 12:14 G 12674924.94 12674925.01 12674925.07 0.0134 0.0123

Pluto 29990-11-08 06:43 G 12674993.64 12674993.78 12674993.94 0.0074 0.0048

Pluto 29991-02-04 08:53 G 12675081.80 12675081.87 12675081.98 0.0073 0.0066

Venus 29992-09-09 10:05 G 12675664.85 12675664.92 12675665.00 0.3679 0.2706

Jupiter 29993-07-17 04:48 G 12675975.52 12675975.70 12675975.87 0.0510 0.0017

Saturn 29994-05-13 16:19 G 12676276.08 12676276.18 12676276.28 0.0265 0.0176

Saturn 29994-08-10 03:07 G 12676364.50 12676364.63 12676364.76 0.0265 0.0079

Moon 29994-09-29 06:14 G 12676414.61 12676414.76 12676414.91 0.2674 0.0360

Earth 29994-09-29 07:26 G 12676414.66 12676414.81 12676414.96 0.2669 0.0231 *

Saturn 29994-11-06 13:55 G 12676452.95 12676453.08 12676453.22 0.0264 0.0022

Saturn 29995-02-03 00:57 G 12676541.42 12676541.54 12676541.67 0.0264 0.0120

Saturn 29995-05-02 12:00 G 12676629.93 12676630.00 12676630.08 0.0264 0.0221

Mars 29996-01-21 22:19 G 12676894.39 12676894.43 12676894.48 0.1764 0.1627

Moon 29997-04-02 06:14 G 12677330.66 12677330.76 12677330.86 0.2668 0.1091

Earth 29997-04-02 06:43 G 12677330.68 12677330.78 12677330.88 0.2662 0.1203 *

Jupiter 29998-12-07 23:17 G 12677945.43 12677945.47 12677945.52 0.0519 0.0486

Jupiter 29999-03-07 06:00 G 12678034.62 12678034.75 12678034.88 0.0516 0.0103

31ST MILLENNIUM CE

This is a list of transits of Mercury in the 31st millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	**30004-03-26 05:45**	**G**	**12679880.72**	**12679880.74**	**12679880.75**	**0.2655**	**0.2609**	
Mars	**30004-08-19 14:38**	**G**	**12680026.97**	**12680027.11**	**12680027.25**	**0.1766**	**0.0699**	
Jupiter	**30005-05-05 02:09**	**G**	**12680285.43**	**12680285.59**	**12680285.76**	**0.0509**	**0.0185**	
Mars	**30005-06-13 06:29**	**G**	**12680324.65**	**12680324.77**	**12680324.89**	**0.1772**	**0.0608**	
Earth	**30007-10-02 12:43**	**G**	**12681165.97**	**12681166.03**	**12681166.09**	**0.2669**	**0.2447**	
Moon	**30007-10-02 12:43**	**G**	**12681165.98**	**12681166.03**	**12681166.08**	**0.2675**	**0.2486**	*
Saturn	**30009-09-07 09:36**	**G**	**12681871.76**	**12681871.90**	**12681872.05**	**0.0297**	**0.0162**	
Saturn	**30009-12-05 08:24**	**G**	**12681960.68**	**12681960.85**	**12681961.02**	**0.0297**	**0.0019**	
Saturn	**30010-03-04 06:29**	**G**	**12682049.65**	**12682049.77**	**12682049.90**	**0.0297**	**0.0197**	
Earth	**30010-04-05 00:57**	**G**	**12682081.52**	**12682081.54**	**12682081.55**	**0.2663**	**0.2632**	
Jupiter	**30010-12-24 09:36**	**G**	**12682344.77**	**12682344.90**	**12682345.03**	**0.0517**	**0.0050**	
Mars	**30014-01-09 17:02**	**G**	**12683457.07**	**12683457.21**	**12683457.35**	**0.1757**	**0.0676**	
Mars	**30014-11-03 14:53**	**G**	**12683755.00**	**12683755.12**	**12683755.24**	**0.1780**	**0.0416**	
Jupiter	**30017-02-20 23:45**	**G**	**12684595.38**	**12684595.49**	**12684595.61**	**0.0508**	**0.0384**	
Moon	**30017-03-28 23:02**	**G**	**12684631.36**	**12684631.46**	**12684631.55**	**0.2658**	**0.1425**	
Earth	**30017-03-28 23:31**	**G**	**12684631.39**	**12684631.48**	**12684631.58**	**0.2662**	**0.1304**	*
Jupiter	**30017-05-22 06:00**	**G**	**12684685.64**	**12684685.75**	**12684685.86**	**0.0511**	**0.0396**	
Jupiter	**30022-10-12 13:41**	**G**	**12686654.95**	**12686655.07**	**12686655.20**	**0.0518**	**0.0194**	

Jupiter 30023-01-09 20:38 G 12686744.28 12686744.36 12686744.45 0.0515 0.0401

Saturn 30023-09-30 19:41 G 12687008.23 12687008.32 12687008.41 0.0264 0.0197

Saturn 30023-12-28 06:29 G 12687096.64 12687096.77 12687096.89 0.0264 0.0100

Saturn 30024-03-25 17:17 G 12687185.08 12687185.22 12687185.36 0.0264 0.0004

Mars 30024-03-25 23:02 G 12687185.39 12687185.46 12687185.53 0.1788 0.1453

Saturn 30024-06-22 04:05 G 12687273.55 12687273.67 12687273.80 0.0264 0.0098

Saturn 30024-09-18 15:21 G 12687362.05 12687362.14 12687362.23 0.0263 0.0198

Moon 30027-09-27 06:43 G 12688465.74 12688465.78 12688465.82 0.2672 0.2555

Earth 30027-09-27 08:09 G 12688465.79 12688465.84 12688465.90 0.2669 0.2462 *

Jupiter 30029-03-10 03:50 G 12688995.50 12688995.66 12688995.82 0.0511 0.0198

Moon 30030-03-31 16:48 G 12689382.09 12689382.20 12689382.31 0.2663 0.0031

Earth 30030-03-31 17:31 G 12689382.12 12689382.23 12689382.34 0.2662 0.0085 *

Uranus 30030-09-24 20:24 G 12689559.30 12689559.35 12689559.42 0.0144 0.0129

Uranus 30030-12-22 00:29 G 12689647.44 12689647.52 12689647.62 0.0144 0.0108

Venus 30031-02-18 02:24 G 12689705.52 12689705.60 12689705.68 0.3690 0.2956

Uranus 30031-03-20 04:33 G 12689735.59 12689735.69 12689735.81 0.0144 0.0086

Uranus 30031-06-16 08:38 G 12689823.74 12689823.86 12689823.99 0.0144 0.0065

Uranus 30031-09-12 12:57 G 12689911.91 12689912.04 12689912.17 0.0144 0.0042

Uranus 30031-12-09 17:02 G 12690000.07 12690000.21 12690000.35 0.0145 0.0021

Neptune 30032-01-29 07:41 G 12690050.81 12690050.82 12690050.85 0.0089 0.0088

Uranus 30032-03-06 21:21 G 12690088.25 12690088.39 12690088.53 0.0145 0.0002

Neptune 30032-04-26 10:48 G 12690138.88 12690138.95 12690139.05 0.0089 0.0078

Uranus 30032-06-03 01:41 G 12690176.43 12690176.57 12690176.71 0.0145 0.0025

Neptune 30032-07-23 14:09 G 12690226.98 12690227.09 12690227.21 0.0089 0.0068

Uranus 30032-08-30 05:45 G 12690264.61 12690264.74 12690264.88 0.0145 0.0047

Venus 30032-09-01 01:26 G 12690266.48 12690266.56 12690266.65 0.3681 0.2390

Neptune 30032-10-19 17:17 G 12690315.09 12690315.22 12690315.36 0.0089 0.0058

Uranus 30032-11-26 10:05 G 12690352.80 12690352.92 12690353.05 0.0145 0.0070

Neptune 30033-01-15 20:09 G 12690403.20 12690403.34 12690403.51 0.0089 0.0049

Uranus 30033-02-22 14:24 G 12690441.00 12690441.10 12690441.21 0.0145 0.0093

Neptune 30033-04-13 23:17 G 12690491.32 12690491.47 12690491.65 0.0089 0.0039

Uranus 30033-05-21 18:43 G 12690529.20 12690529.28 12690529.37 0.0145 0.0116

Neptune 30033-07-11 02:38 G 12690579.44 12690579.61 12690579.79 0.0089 0.0029

Uranus 30033-08-17 23:17 G 12690617.44 12690617.47 12690617.51 0.0145 0.0139

Neptune 30033-10-07 05:45 G 12690667.57 12690667.74 12690667.92 0.0089 0.0019

Neptune 30034-01-03 08:53 G 12690755.69 12690755.87 12690756.05 0.0089 0.0010

Neptune 30034-04-01 12:00 G 12690843.82 12690844.00 12690844.18 0.0089 0.0000

Neptune 30034-06-28 15:07 G 12690931.95 12690932.13 12690932.31 0.0089 0.0010

Jupiter 30034-07-31 18:00 G 12690965.15 12690965.25 12690965.35 0.0519 0.0336

Neptune 30034-09-24 18:00 G 12691020.08 12691020.25 12691020.43 0.0089 0.0020

Jupiter 30034-10-29 00:43 G 12691054.42 12691054.53 12691054.65 0.0516 0.0257

Neptune 30034-12-21 21:07 G 12691108.21 12691108.38 12691108.55 0.0089 0.0029

Neptune 30035-03-20 00:00 G 12691196.35 12691196.50 12691196.67 0.0089 0.0039

Neptune 30035-06-16 03:07 G 12691284.48 12691284.63 12691284.78 0.0089 0.0048

Neptune 30035-09-12 05:45 G 12691372.62 12691372.74 12691372.89 0.0089 0.0058

Neptune 30035-12-09 08:53 G 12691460.77 12691460.87 12691461.00 0.0089 0.0068

Neptune 30036-03-06 11:45 G 12691548.92 12691548.99 12691549.10 0.0089 0.0077

Neptune 30036-06-02 14:53 G 12691637.09 12691637.12 12691637.17 0.0089 0.0086

Venus 30036-09-03 02:24 G 12691729.47 12691729.60 12691729.73 0.3690 0.0019

Venus 30038-03-17 19:41 G 12692290.20 12692290.32 12692290.43 0.3680 0.0537

Saturn 30039-01-25 07:41 G 12692603.71 12692603.82 12692603.94 0.0296 0.0219

Saturn 30039-04-24 06:43 G 12692692.61 12692692.78 12692692.95 0.0297 0.0037

Saturn 30039-07-22 05:02 G 12692781.56 12692781.71 12692781.86 0.0297 0.0142

Moon 30040-09-29 12:57 G 12693216.89 12693217.04 12693217.19 0.2674 0.0140

Earth 30040-09-29 13:55 G 12693216.93 12693217.08 12693217.23 0.2669 0.0302 *

Jupiter 30040-12-27 02:09 G 12693305.41 12693305.59 12693305.76 0.0510 0.0009

Venus 30042-03-20 01:55 G 12693753.50 12693753.58 12693753.66 0.3691 0.2844

Moon 30043-04-03 11:02 G 12694132.87 12694132.96 12694133.05 0.2668 0.1456

Earth 30043-04-03 11:31 G 12694132.89 12694132.98 12694133.07 0.2663 0.1495 *

Venus 30043-10-01 13:55 G 12694313.97 12694314.08 12694314.18 0.3680 0.1403

Mars 30044-02-18 15:07 G 12694454.00 12694454.13 12694454.26 0.1766 0.0877

Mars 30044-12-12 06:29 G 12694751.66 12694751.77 12694751.89 0.1772 0.0748

Jupiter 30046-05-19 21:50 G 12695275.37 12695275.41 12695275.45 0.0519 0.0484

Jupiter 30046-08-17 04:19 G 12695364.55 12695364.68 12695364.81 0.0516 0.0104

Venus 30049-04-16 08:24 G 12696337.81 12696337.85 12696337.89 0.3679 0.3404

Moon 30050-03-27 10:19 G 12696682.89 12696682.93 12696682.97 0.2656 0.2458

Earth 30050-03-27 10:33 G 12696682.89 12696682.94 12696682.99 0.2662 0.2385 *

Jupiter 30052-10-15 00:00 G 12697615.34 12697615.50 12697615.67 0.0510 0.0187

Saturn 30053-02-16 22:19 G 12697740.36 12697740.43 12697740.50 0.0265 0.0226

Saturn 30053-05-16 08:53 G 12697828.76 12697828.87 12697829.00 0.0265 0.0129

Mars 30053-07-10 17:31 G 12697884.08 12697884.23 12697884.37 0.1758 0.0485

Saturn 30053-08-12 19:55 G 12697917.19 12697917.33 12697917.46 0.0265 0.0031

Saturn 30053-11-09 06:43 G 12698005.65 12698005.78 12698005.92 0.0264 0.0069

Saturn 30054-02-05 17:45 G 12698094.14 12698094.24 12698094.35 0.0264 0.0170

Mars 30054-05-04 14:38 G 12698181.99 12698182.11 12698182.23 0.1780 0.0293

Jupiter 30058-06-05 08:09 G 12699674.71 12699674.84 12699674.97 0.0517 0.0048

Moon 30063-03-30 03:50 G 12701433.56 12701433.66 12701433.76 0.2658 0.1051

Earth 30063-03-30 04:19 G 12701433.58 12701433.68 12701433.79 0.2662 0.1021 *

Mars 30063-09-24 23:02 G 12701612.38 12701612.46 12701612.55 0.1788 0.1310

Jupiter 30064-08-02 21:21 G 12701925.28 12701925.39 12701925.51 0.0508 0.0388

Jupiter 30064-11-01 03:36 G 12702015.55 12702015.65 12702015.77 0.0511 0.0395

Saturn 30068-06-13 08:53 G 12703335.79 12703335.87 12703335.97 0.0297 0.0254

Saturn 30068-09-10 08:09 G 12703424.67 12703424.84 12703425.01 0.0297 0.0070

Saturn 30068-12-08 06:43 G 12703513.62 12703513.78 12703513.94 0.0297 0.0109

Saturn 30069-03-07 04:33 G 12703602.65 12703602.69 12703602.74 0.0298 0.0285

Jupiter 30070-03-24 11:45 G 12703984.87 12703984.99 12703985.11 0.0518 0.0201

Jupiter 30070-06-21 18:43 G 12704074.19 12704074.28 12704074.36 0.0515 0.0392

Uranus 30072-01-24 02:24 G 12704655.52 12704655.60 12704655.70 0.0134 0.0114

Uranus 30072-04-21 08:38 G 12704743.73 12704743.86 12704743.99 0.0134 0.0091

Uranus 30072-07-18 14:38 G 12704831.96 12704832.11 12704832.27 0.0134 0.0069

Uranus 30072-10-14 20:38 G 12704920.20 12704920.36 12704920.53 0.0134 0.0046

Uranus 30073-01-11 02:38 G 12705008.44 12705008.61 12705008.79 0.0134 0.0024

Uranus 30073-04-09 08:38 G 12705096.68 12705096.86 12705097.03 0.0134 0.0003

Uranus 30073-07-06 14:24 G 12705184.93 12705185.10 12705185.28 0.0134 0.0021

Moon 30073-09-27 13:12 G 12705267.97 12705268.05 12705268.14 0.2673 0.2216

Earth 30073-09-27 14:53 G 12705268.01 12705268.12 12705268.22 0.2669 0.1912 *

Uranus 30073-10-02 20:09 G 12705273.18 12705273.34 12705273.51 0.0134 0.0043

Uranus 30073-12-30 01:41 G 12705361.43 12705361.57 12705361.74 0.0134 0.0065

Uranus 30074-03-28 07:41 G 12705449.69 12705449.82 12705449.95 0.0134 0.0086

Uranus 30074-06-24 12:57 G 12705537.96 12705538.04 12705538.16 0.0134 0.0108

Uranus 30074-09-20 18:43 G 12705626.25 12705626.28 12705626.34 0.0133 0.0129

Moon 30076-03-31 21:36 G 12706184.29 12706184.40 12706184.52 0.2665 0.0272

Earth 30076-03-31 22:19 G 12706184.32 12706184.43 12706184.54 0.2662 0.0383 *

Jupiter 30076-08-20 01:41 G 12706325.41 12706325.57 12706325.73 0.0510 0.0198

Jupiter 30082-01-10 15:50 G 12708295.06 12708295.16 12708295.26 0.0519 0.0347

Jupiter 30082-04-09 22:33 G 12708384.33 12708384.44 12708384.56 0.0516 0.0246

Saturn 30082-07-07 01:55 G 12708472.53 12708472.58 12708472.63 0.0265 0.0244

Saturn 30082-10-03 12:29 G 12708560.91 12708561.02 12708561.14 0.0264 0.0148

Saturn 30082-12-30 23:17 G 12708649.34 12708649.47 12708649.61 0.0264 0.0050

Saturn 30083-03-29 10:05 G 12708737.79 12708737.92 12708738.06 0.0264 0.0050

Saturn 30083-06-25 21:07 G 12708826.27 12708826.38 12708826.50 0.0264 0.0150

Mars 30083-08-19 15:36 G 12708881.03 12708881.15 12708881.27 0.1766 0.1055

Saturn 30083-09-22 08:24 G 12708914.81 12708914.85 12708914.89 0.0263 0.0250

Venus 30083-09-23 05:45 G 12708915.71 12708915.74 12708915.76 0.3681 0.3573

Mars 30084-06-12 06:43 G 12709178.67 12709178.78 12709178.89 0.1772 0.0883

Moon 30086-09-30 19:41 G 12710019.18 12710019.32 12710019.46 0.2675 0.0822

Earth 30086-09-30 20:24 G 12710019.20 12710019.35 12710019.49 0.2669 0.0833 *

Venus 30087-09-25 02:09 G 12710378.48 12710378.59 12710378.70 0.3690 0.1950

Jupiter 30088-06-07 23:02 G 12710635.29 12710635.46 12710635.64 0.0510 0.0009

Moon 30089-04-03 16:05 G 12710935.08 12710935.17 12710935.25 0.2668 0.1721

Earth 30089-04-03 16:33 G 12710935.10 12710935.19 12710935.27 0.2662 0.1792 *

Venus 30089-04-07 23:31 G 12710939.39 12710939.48 12710939.58 0.3681 0.1753

Mars 30093-01-08 18:00 G 12712311.10 12712311.25 12712311.40 0.1758 0.0300

Venus 30093-04-10 02:09 G 12712402.46 12712402.59 12712402.71 0.3691 0.0995

Jupiter 30093-10-29 20:09 G 12712605.30 12712605.34 12712605.38 0.0520 0.0488

Mars 30093-11-02 14:53 G 12712608.99 12712609.12 12712609.24 0.1780 0.0152

Jupiter 30094-01-27 02:38 G 12712694.48 12712694.61 12712694.74 0.0517 0.0102

Venus 30094-10-22 17:45 G 12712963.13 12712963.24 12712963.35 0.3680 0.0137

Moon 30096-03-27 15:07 G 12713485.06 12713485.13 12713485.19 0.2656 0.2087

Earth 30096-03-27 15:21 G 12713485.08 12713485.14 12713485.21 0.2662 0.2100 *

Saturn 30098-01-28 06:57 G 12714156.63 12714156.79 12714156.95 0.0296 0.0122

Saturn 30098-04-27 05:31 G 12714245.56 12714245.73 12714245.90 0.0297 0.0059

Saturn 30098-07-25 03:36 G 12714334.55 12714334.65 12714334.76 0.0297 0.0235

Jupiter 30100-03-27 21:07 G 12714945.22 12714945.38 12714945.55 0.0509 0.0197

Venus 30100-05-08 12:14 G 12714986.91 12714987.01 12714987.10 0.3680 0.2096

Mars 30102-06-01 20:09 G 12715741.30 12715741.34 12715741.38 0.1749 0.1674

Mars 30103-03-26 23:02 G 12716039.37 12716039.46 12716039.55 0.1788 0.1183

Jupiter 30105-11-16 06:29 G 12717004.64 12717004.77 12717004.90 0.0517 0.0049

Moon 30109-03-31 08:38 G 12718235.75 12718235.86 12718235.97 0.2659 0.0873

Earth 30109-03-31 09:21 G 12718235.78 12718235.89 12718235.99 0.2662 0.0732 *

Jupiter 30112-01-14 18:43 G 12719255.18 12719255.28 12719255.40 0.0509 0.0395

Saturn 30112-02-21 15:07 G 12719293.03 12719293.13 12719293.23 0.0265 0.0177

Jupiter 30112-04-14 01:26 G 12719345.45 12719345.56 12719345.67 0.0512 0.0390

Saturn 30112-05-20 01:55 G 12719381.45 12719381.58 12719381.71 0.0265 0.0079

Neptune 30112-08-14 06:57 G 12719467.79 12719467.79 12719467.81 0.0088 0.0088

Saturn 30112-08-16 12:43 G 12719469.90 12719470.03 12719470.17 0.0264 0.0022

Neptune 30112-11-10 08:24 G 12719555.81 12719555.85 12719555.91 0.0088 0.0081

Saturn 30112-11-12 23:45 G 12719558.37 12719558.49 12719558.62 0.0264 0.0121

Neptune 30113-02-06 09:50 G 12719643.85 12719643.91 12719643.99 0.0088 0.0074

Saturn 30113-02-09 10:48 G 12719646.88 12719646.95 12719647.03 0.0264 0.0222

Neptune 30113-05-05 11:31 G 12719731.89 12719731.98 12719732.07 0.0088 0.0067

Neptune 30113-08-01 12:57 G 12719819.94 12719820.04 12719820.14 0.0088 0.0060

Neptune 30113-10-28 14:24 G 12719907.99 12719908.10 12719908.21 0.0088 0.0053

Neptune 30114-01-24 15:50 G 12719996.05 12719996.16 12719996.28 0.0088 0.0045

Neptune 30114-04-22 17:17 G 12720084.10 12720084.22 12720084.35 0.0088 0.0038

Neptune 30114-07-19 18:43 G 12720172.16 12720172.28 12720172.41 0.0088 0.0031

Neptune 30114-10-15 20:24 G 12720260.21 12720260.35 12720260.48 0.0088 0.0024

Uranus 30114-10-16 03:36 G 12720260.59 12720260.65 12720260.72 0.0144 0.0124

Neptune 30115-01-11 21:50 G 12720348.27 12720348.41 12720348.55 0.0088 0.0017

Uranus 30115-01-12 07:41 G 12720348.73 12720348.82 12720348.92 0.0144 0.0103

Neptune 30115-04-09 23:17 G 12720436.33 12720436.47 12720436.61 0.0088 0.0009

Uranus 30115-04-10 11:45 G 12720436.88 12720436.99 12720437.11 0.0144 0.0081

Neptune 30115-07-07 00:43 G 12720524.39 12720524.53 12720524.67 0.0088 0.0003

Uranus 30115-07-07 15:50 G 12720525.04 12720525.16 12720525.29 0.0144 0.0060

Neptune 30115-10-03 02:09 G 12720612.46 12720612.59 12720612.73 0.0088 0.0006

Uranus 30115-10-03 20:09 G 12720613.20 12720613.34 12720613.47 0.0144 0.0037

Neptune 30115-12-30 03:50 G 12720700.52 12720700.66 12720700.80 0.0088 0.0013

Uranus 30115-12-31 00:14 G 12720701.37 12720701.51 12720701.65 0.0145 0.0016

Neptune 30116-03-27 05:17 G 12720788.58 12720788.72 12720788.86 0.0088 0.0020

Uranus 30116-03-28 04:33 G 12720789.55 12720789.69 12720789.83 0.0145 0.0007

Neptune 30116-06-23 06:43 G 12720876.65 12720876.78 12720876.92 0.0088 0.0027

Uranus 30116-06-24 08:53 G 12720877.73 12720877.87 12720878.00 0.0145 0.0030

Neptune 30116-09-19 08:24 G 12720964.72 12720964.85 12720964.98 0.0088 0.0035

Uranus 30116-09-20 12:57 G 12720965.91 12720966.04 12720966.18 0.0145 0.0053

Neptune 30116-12-16 09:36 G 12721052.79 12721052.90 12721053.03 0.0088 0.0043

Uranus 30116-12-17 17:17 G 12721054.10 12721054.22 12721054.35 0.0145 0.0075

Neptune 30117-03-14 11:17 G 12721140.86 12721140.97 12721141.09 0.0088 0.0050

Uranus 30117-03-15 21:50 G 12721142.30 12721142.41 12721142.51 0.0145 0.0098

Neptune 30117-06-10 12:43 G 12721228.93 12721229.03 12721229.15 0.0088 0.0057

Uranus 30117-06-12 02:09 G 12721230.51 12721230.59 12721230.67 0.0145 0.0121

Jupiter 30117-09-04 10:19 G 12721314.81 12721314.93 12721315.05 0.0517 0.0199

Neptune 30117-09-06 14:24 G 12721317.01 12721317.10 12721317.20 0.0088 0.0064

Uranus 30117-09-08 06:29 G 12721318.77 12721318.77 12721318.78 0.0145 0.0144

Jupiter 30117-12-02 17:02 G 12721404.13 12721404.21 12721404.30 0.0514 0.0393

Neptune 30117-12-03 15:50 G 12721405.09 12721405.16 12721405.25 0.0088 0.0072

Neptune 30118-03-01 17:31 G 12721493.18 12721493.23 12721493.29 0.0088 0.0079

Neptune 30118-05-28 19:12 G 12721581.28 12721581.30 12721581.32 0.0088 0.0087

Moon 30119-09-29 19:41 G 12722070.20 12722070.32 12722070.45 0.2673 0.1460

Earth 30119-09-29 21:07 G 12722070.25 12722070.38 12722070.51 0.2669 0.1379 *

Moon 30122-04-03 02:38 G 12722986.50 12722986.61 12722986.71 0.2666 0.0627

Earth 30122-04-03 03:07 G 12722986.53 12722986.63 12722986.74 0.2662 0.0673 *

Mars 30123-02-18 16:05 G 12723308.06 12723308.17 12723308.27 0.1766 0.1236

Mars 30123-12-13 06:43 G 12723605.68 12723605.78 12723605.88 0.1772 0.1017

Jupiter 30124-01-31 23:02 G 12723655.30 12723655.46 12723655.63 0.0511 0.0192

Saturn 30127-06-18 07:55 G 12724888.69 12724888.83 12724888.99 0.0297 0.0158

Saturn 30127-09-15 06:57 G 12724977.61 12724977.79 12724977.96 0.0297 0.0025

Saturn 30127-12-13 05:02 G 12725066.59 12725066.71 12725066.84 0.0297 0.0203

Jupiter 30129-06-23 13:55 G 12725624.98 12725625.08 12725625.17 0.0519 0.0354

Jupiter 30129-09-20 20:38 G 12725714.24 12725714.36 12725714.47 0.0516 0.0237

Mars 30132-07-10 18:14 G 12726738.11 12726738.26 12726738.41 0.1758 0.0141

Moon 30132-10-02 02:24 G 12726821.47 12726821.60 12726821.73 0.2676 0.1229

Earth 30132-10-02 02:38 G 12726821.48 12726821.61 12726821.74 0.2669 0.1358 *

Mars 30133-05-04 14:53 G 12727036.00 12727036.12 12727036.25 0.1780 0.0048

Moon 30135-04-05 21:07 G 12727737.31 12727737.38 12727737.45 0.2668 0.2044

Earth 30135-04-05 21:21 G 12727737.32 12727737.39 12727737.46 0.2662 0.2086 *

Jupiter 30135-11-19 20:53 G 12727965.20 12727965.37 12727965.55 0.0510 0.0009

Venus 30140-04-30 03:50 G 12729588.59 12729588.66 12729588.72 0.3681 0.2950

Jupiter 30141-04-11 18:00 G 12729935.22 12729935.25 12729935.28 0.0520 0.0501

Jupiter 30141-07-10 00:29 G 12730024.39 12730024.52 12730024.65 0.0517 0.0090

Saturn 30141-07-10 18:57 G 12730025.20 12730025.29 12730025.38 0.0265 0.0194

Saturn 30141-10-07 05:45 G 12730113.61 12730113.74 12730113.86 0.0264 0.0097

Mars 30141-11-30 20:38 G 12730168.29 12730168.36 12730168.44 0.1750 0.1485

Saturn 30142-01-03 16:33 G 12730202.05 12730202.19 12730202.33 0.0264 0.0007

Moon 30142-03-29 19:55 G 12730287.25 12730287.33 12730287.40 0.2656 0.1926

Earth 30142-03-29 20:09 G 12730287.26 12730287.34 12730287.42 0.2662 0.1818 *

Saturn 30142-04-02 03:21 G 12730290.52 12730290.64 12730290.77 0.0264 0.0102

Saturn 30142-06-29 14:24 G 12730379.02 12730379.10 12730379.20 0.0263 0.0203

Mars 30142-09-24 23:02 G 12730466.37 12730466.46 12730466.56 0.1788 0.1050

Venus 30144-05-02 01:55 G 12731051.45 12731051.58 12731051.71 0.3690 0.0952

Venus 30145-11-13 21:50 G 12731612.30 12731612.41 12731612.51 0.3681 0.1104

Jupiter 30147-09-07 18:14 G 12732275.10 12732275.26 12732275.42 0.0509 0.0210

Venus 30149-11-16 01:41 G 12733075.46 12733075.57 12733075.68 0.3691 0.1949

Pluto 30150-05-31 09:50 G 12733271.86 12733271.91 12733271.98 0.0070 0.0062

Pluto 30150-08-27 10:33 G 12733359.86 12733359.94 12733360.03 0.0070 0.0052

Pluto 30150-11-23 11:02 G 12733447.86 12733447.96 12733448.07 0.0070 0.0042

Pluto 30151-02-19 11:45 G 12733535.88 12733535.99 12733536.11 0.0070 0.0032

Pluto 30151-05-18 12:14 G 12733623.89 12733624.01 12733624.14 0.0070 0.0023

Venus 30151-05-30 15:50 G 12733636.05 12733636.16 12733636.27 0.3680 0.0816

Pluto 30151-08-14 12:43 G 12733711.91 12733712.03 12733712.17 0.0070 0.0013

Pluto 30151-11-10 13:26 G 12733799.93 12733800.06 12733800.19 0.0070 0.0003

Pluto 30152-02-06 13:55 G 12733887.95 12733888.08 12733888.21 0.0070 0.0008

Pluto 30152-05-04 14:38 G 12733975.98 12733976.11 12733976.24 0.0070 0.0017

Pluto 30152-07-31 15:07 G 12734064.01 12734064.13 12734064.25 0.0071 0.0028

Pluto 30152-10-27 15:36 G 12734152.05 12734152.15 12734152.27 0.0071 0.0038

Pluto 30153-01-23 16:19 G 12734240.09 12734240.18 12734240.28 0.0071 0.0048

Pluto 30153-04-21 16:33 G 12734328.14 12734328.19 12734328.28 0.0071 0.0059

Jupiter 30153-04-28 04:33 G 12734334.56 12734334.69 12734334.82 0.0517 0.0056

Pluto 30153-07-18 17:17 G 12734416.21 12734416.22 12734416.26 0.0071 0.0069

Moon 30155-04-01 13:26 G 12735037.95 12735038.06 12735038.17 0.2661 0.0477

Earth 30155-04-01 14:09 G 12735037.98 12735038.09 12735038.20 0.2662 0.0443 *

Uranus 30155-11-18 02:53 G 12735268.61 12735268.62 12735268.65 0.0134 0.0133

Uranus 30156-02-14 08:53 G 12735356.78 12735356.87 12735356.98 0.0134 0.0110

Uranus 30156-05-12 15:07 G 12735445.00 12735445.13 12735445.27 0.0134 0.0087

Uranus 30156-08-08 21:07 G 12735533.23 12735533.38 12735533.54 0.0134 0.0065

Saturn 30156-11-04 07:12 G 12735620.68 12735620.80 12735620.93 0.0296 0.0207

Uranus 30156-11-05 03:07 G 12735621.47 12735621.63 12735621.81 0.0134 0.0042

Venus 30156-12-13 10:19 G 12735659.86 12735659.93 12735660.01 0.3679 0.2789

Saturn 30157-02-01 06:14 G 12735709.58 12735709.76 12735709.93 0.0297 0.0024

Uranus 30157-02-01 09:07 G 12735709.71 12735709.88 12735710.06 0.0134 0.0020 *

Uranus 30157-04-30 15:07 G 12735797.95 12735798.13 12735798.31 0.0134 0.0003

Saturn 30157-05-01 04:33 G 12735798.55 12735798.69 12735798.84 0.0297 0.0155

Uranus 30157-07-27 20:53 G 12735886.20 12735886.37 12735886.55 0.0134 0.0025

Uranus 30157-10-24 02:53 G 12735974.45 12735974.62 12735974.78 0.0134 0.0047

Uranus 30158-01-20 08:24 G 12736062.71 12736062.85 12736063.01 0.0133 0.0069

Uranus 30158-04-18 13:55 G 12736150.97 12736151.08 12736151.23 0.0133 0.0091

Uranus 30158-07-15 19:41 G 12736239.24 12736239.32 12736239.43 0.0133 0.0112

Uranus 30158-10-12 01:26 G 12736327.55 12736327.56 12736327.59 0.0133 0.0133

Jupiter 30159-06-26 15:50 G 12736585.06 12736585.16 12736585.27 0.0508 0.0406

Jupiter 30159-09-24 22:33 G 12736675.32 12736675.44 12736675.55 0.0511 0.0378

Mars 30162-08-19 16:33 G 12737735.10 12737735.19 12737735.27 0.1766 0.1411

Mars 30163-06-13 06:43 G 12738032.69 12738032.78 12738032.88 0.1772 0.1160

Jupiter 30165-02-14 08:38 G 12738644.74 12738644.86 12738644.98 0.0518 0.0201

Jupiter 30165-05-14 15:21 G 12738734.06 12738734.14 12738734.23 0.0515 0.0391

Moon 30165-09-30 02:24 G 12738872.46 12738872.60 12738872.74 0.2673 0.1083

Earth 30165-09-30 03:36 G 12738872.51 12738872.65 12738872.80 0.2669 0.0836 *

Moon 30168-04-03 07:26 G 12739788.70 12739788.81 12739788.92 0.2666 0.0813

Earth 30168-04-03 08:09 G 12739788.73 12739788.84 12739788.94 0.2662 0.0962 *

Saturn 30170-11-27 21:21 G 12740757.32 12740757.39 12740757.47 0.0265 0.0223

Saturn 30171-02-24 08:09 G 12740845.72 12740845.84 12740845.96 0.0265 0.0126

Saturn 30171-05-23 18:57 G 12740934.15 12740934.29 12740934.43 0.0265 0.0027

Jupiter 30171-07-13 20:38 G 12740985.19 12740985.36 12740985.52 0.0511 0.0185

Saturn 30171-08-20 05:45 G 12741022.61 12741022.74 12741022.88 0.0264 0.0073

Saturn 30171-11-16 16:48 G 12741111.10 12741111.20 12741111.31 0.0264 0.0173

Mars 30172-01-09 18:57 G 12741165.14 12741165.29 12741165.44 0.1758 0.0061

Mars 30172-11-02 14:53 G 12741463.00 12741463.12 12741463.25 0.1780 0.0120

Jupiter 30176-12-03 12:29 G 12742954.93 12742955.02 12742955.12 0.0518 0.0350

Jupiter 30177-03-02 19:12 G 12743044.18 12743044.30 12743044.41 0.0515 0.0240

Moon 30178-10-03 08:53 G 12743623.77 12743623.87 12743623.97 0.2676 0.1958

Earth 30178-10-03 09:07 G 12743623.77 12743623.88 12743623.98 0.2669 0.1870 *

Moon 30181-04-06 02:09 G 12744539.54 12744539.59 12744539.63 0.2669 0.2413

Earth 30181-04-06 02:09 G 12744539.54 12744539.59 12744539.64 0.2662 0.2381 *

Mars 30181-05-31 20:53 G 12744595.28 12744595.37 12744595.47 0.1750 0.1322

Mars 30182-03-25 23:17 G 12744893.36 12744893.47 12744893.57 0.1788 0.0910

Jupiter 30183-05-01 18:14 G 12745295.09 12745295.26 12745295.44 0.0510 0.0017

Saturn 30186-03-24 08:09 G 12746352.74 12746352.84 12746352.94 0.0296 0.0243

Saturn 30186-06-21 07:12 G 12746441.63 12746441.80 12746441.97 0.0297 0.0060

Saturn 30186-09-18 05:45 G 12746530.58 12746530.74 12746530.90 0.0297 0.0121

Saturn 30186-12-16 03:50 G 12746619.65 12746619.66 12746619.67 0.0298 0.0297

Moon 30188-03-30 00:43 G 12747089.44 12747089.53 12747089.62 0.2656 0.1551

Earth 30188-03-30 00:57 G 12747089.45 12747089.54 12747089.63 0.2662 0.1536 *

Jupiter 30188-09-21 15:50 G 12747265.14 12747265.16 12747265.19 0.0520 0.0508

Jupiter 30188-12-19 22:33 G 12747354.31 12747354.44 12747354.57 0.0517 0.0082

Jupiter 30195-02-17 16:05 G 12749605.01 12749605.17 12749605.33 0.0509 0.0209

Venus 30195-05-24 01:26 G 12749700.49 12749700.56 12749700.64 0.3689 0.2968

Neptune 30196-10-26 06:43 G 12750221.73 12750221.78 12750221.86 0.0089 0.0083

Venus 30196-12-05 01:55 G 12750261.49 12750261.58 12750261.66 0.3681 0.2313

Neptune 30197-01-22 09:50 G 12750309.83 12750309.91 12750310.03 0.0089 0.0073

Neptune 30197-04-20 13:12 G 12750397.93 12750398.05 12750398.19 0.0089 0.0063

Neptune 30197-07-17 16:19 G 12750486.05 12750486.18 12750486.34 0.0089 0.0053

Neptune 30197-10-13 19:41 G 12750574.17 12750574.32 12750574.49 0.0089 0.0043

Neptune 30198-01-09 22:48 G 12750662.29 12750662.45 12750662.63 0.0089 0.0033

Neptune 30198-04-08 02:09 G 12750750.41 12750750.59 12750750.76 0.0089 0.0023

Neptune 30198-07-05 05:02 G 12750838.54 12750838.71 12750838.90 0.0089 0.0014

Uranus 30198-08-09 06:14 G 12750873.75 12750873.76 12750873.79 0.0144 0.0143

Neptune 30198-10-01 08:24 G 12750926.66 12750926.85 12750927.03 0.0089 0.0004

Uranus 30198-11-05 10:19 G 12750961.86 12750961.93 12750962.01 0.0144 0.0121

Neptune 30198-12-28 11:17 G 12751014.79 12751014.97 12751015.16 0.0089 0.0006

Uranus 30199-02-01 14:24 G 12751050.01 12751050.10 12751050.20 0.0144 0.0100

Neptune 30199-03-26 14:24 G 12751102.92 12751103.10 12751103.28 0.0089 0.0016

Uranus 30199-04-30 18:29 G 12751138.16 12751138.27 12751138.39 0.0144 0.0078

Neptune 30199-06-22 17:31 G 12751191.06 12751191.23 12751191.40 0.0089 0.0025

Uranus 30199-07-27 22:33 G 12751226.32 12751226.44 12751226.58 0.0144 0.0057

Neptune 30199-09-18 20:24 G 12751279.19 12751279.35 12751279.52 0.0089 0.0035

Uranus 30199-10-24 02:53 G 12751314.48 12751314.62 12751314.76 0.0144 0.0034

Neptune 30199-12-15 23:31 G 12751367.33 12751367.48 12751367.64 0.0089 0.0044

Uranus 30200-01-20 06:57 G 12751402.65 12751402.79 12751402.93 0.0144 0.0013

Neptune 30200-03-14 02:24 G 12751455.47 12751455.60 12751455.75 0.0089 0.0054

Saturn 30200-04-17 01:12 G 12751489.50 12751489.55 12751489.61 0.0265 0.0240

Uranus 30200-04-18 11:17 G 12751490.83 12751490.97 12751491.11 0.0145 0.0010

Neptune 30200-06-10 05:31 G 12751543.61 12751543.73 12751543.86 0.0089 0.0063

Saturn 30200-07-14 11:45 G 12751577.88 12751577.99 12751578.11 0.0264 0.0143

Uranus 30200-07-15 15:36 G 12751579.01 12751579.15 12751579.28 0.0145 0.0033

Neptune 30200-09-06 08:09 G 12751631.76 12751631.84 12751631.96 0.0089 0.0073

Jupiter 30200-10-09 02:24 G 12751664.47 12751664.60 12751664.73 0.0518 0.0066

Saturn 30200-10-10 22:33 G 12751666.31 12751666.44 12751666.58 0.0264 0.0045

Uranus 30200-10-11 19:41 G 12751667.19 12751667.32 12751667.46 0.0145 0.0056

Neptune 30200-12-03 11:17 G 12751719.92 12751719.97 12751720.05 0.0089 0.0082

Venus 30200-12-08 01:41 G 12751724.44 12751724.57 12751724.70 0.3690 0.0074

Saturn 30201-01-07 09:36 G 12751754.76 12751754.90 12751755.03 0.0264 0.0055

Uranus 30201-01-08 00:00 G 12751755.39 12751755.50 12751755.62 0.0145 0.0079

Moon 30201-04-02 18:14 G 12751840.15 12751840.26 12751840.37 0.2663 0.0313

Earth 30201-04-02 18:57 G 12751840.18 12751840.29 12751840.40 0.2662 0.0154 *

Saturn 30201-04-05 20:38 G 12751843.24 12751843.36 12751843.47 0.0264 0.0155

Uranus 30201-04-06 04:19 G 12751843.59 12751843.68 12751843.79 0.0145 0.0102

Saturn 30201-07-03 07:41 G 12751931.79 12751931.82 12751931.85 0.0263 0.0256

Uranus 30201-07-03 08:38 G 12751931.80 12751931.86 12751931.94 0.0145 0.0125 *

Mars 30202-02-18 17:02 G 12752162.15 12752162.21 12752162.27 0.1767 0.1597

Venus 30202-06-21 19:55 G 12752285.22 12752285.33 12752285.44 0.3680 0.0445

Mars 30202-12-13 06:57 G 12752459.70 12752459.79 12752459.87 0.1771 0.1295

Venus 30206-06-24 01:12 G 12753748.47 12753748.55 12753748.63 0.3691 0.2900

Jupiter 30206-12-07 13:12 G 12753914.95 12753915.05 12753915.15 0.0508 0.0415

Jupiter 30207-03-07 19:41 G 12754005.20 12754005.32 12754005.44 0.0511 0.0368

Venus 30208-01-05 14:09 G 12754308.99 12754309.09 12754309.19 0.3680 0.1484

Mars 30211-07-11 19:26 G 12755592.16 12755592.31 12755592.46 0.1758 0.0237

Moon 30211-10-02 09:07 G 12755674.73 12755674.88 12755675.03 0.2675 0.0360

Earth 30211-10-02 10:05 G 12755674.77 12755674.92 12755675.07 0.2669 0.0301 *

Mars 30212-05-04 15:07 G 12755890.00 12755890.13 12755890.25 0.1780 0.0266

Jupiter 30212-07-28 06:43 G 12755974.66 12755974.78 12755974.90 0.0518 0.0210

Jupiter 30212-10-25 13:26 G 12756063.98 12756064.06 12756064.15 0.0515 0.0385

Venus 30213-07-21 08:38 G 12756332.83 12756332.86 12756332.89 0.3679 0.3489

Moon 30214-04-05 12:29 G 12756590.92 12756591.02 12756591.11 0.2666 0.1233

Earth 30214-04-05 12:57 G 12756590.94 12756591.04 12756591.14 0.2662 0.1249 *

Saturn 30215-08-12 07:12 G 12757084.79 12757084.80 12757084.83 0.0296 0.0293

Saturn 30215-11-09 06:29 G 12757173.61 12757173.77 12757173.93 0.0297 0.0109

Saturn 30216-02-06 05:02 G 12757262.55 12757262.71 12757262.88 0.0297 0.0072

Saturn 30216-05-05 03:07 G 12757351.55 12757351.63 12757351.73 0.0297 0.0249

Jupiter 30218-12-24 17:45 G 12758315.08 12758315.24 12758315.41 0.0510 0.0176

Mars 30220-11-30 21:36 G 12759022.29 12759022.40 12759022.52 0.1750 0.1130

Moon 30221-03-29 12:00 G 12759140.99 12759141.00 12759141.01 0.2655 0.2635

Earth 30221-03-29 12:00 G 12759140.99 12759141.00 12759141.02 0.2662 0.2612 *

Mars 30221-09-24 23:17 G 12759320.36 12759320.47 12759320.58 0.1788 0.0777

Jupiter 30224-05-16 10:48 G 12760284.86 12760284.95 12760285.04 0.0519 0.0353

Jupiter 30224-08-13 17:17 G 12760374.11 12760374.22 12760374.34 0.0516 0.0239

Moon 30224-10-04 15:21 G 12760426.07 12760426.14 12760426.21 0.2676 0.2295

Earth 30224-10-04 15:21 G 12760426.08 12760426.14 12760426.21 0.2669 0.2396 *

Moon 30227-04-08 07:12 G 12761341.78 12761341.80 12761341.81 0.2669 0.2637

Saturn 30229-12-01 14:24 G 12762309.99 12762310.10 12762310.20 0.0265 0.0173

Saturn 30230-02-28 00:57 G 12762398.41 12762398.54 12762398.68 0.0265 0.0075

Saturn 30230-05-27 11:45 G 12762486.86 12762486.99 12762487.13 0.0264 0.0026

Saturn 30230-08-23 22:48 G 12762575.33 12762575.45 12762575.58 0.0264 0.0124

Jupiter 30230-10-12 15:36 G 12762624.98 12762625.15 12762625.33 0.0510 0.0022

Saturn 30230-11-20 09:50 G 12762663.84 12762663.91 12762663.99 0.0264 0.0225

Moon 30234-04-01 05:17 G 12763891.63 12763891.72 12763891.82 0.2657 0.1345

Earth 30234-04-01 05:45 G 12763891.65 12763891.74 12763891.84 0.2662 0.1254 *

Jupiter 30236-03-04 14:38 G 12764595.08 12764595.11 12764595.15 0.0519 0.0501

Pluto 30236-04-11 22:48 G 12764633.39 12764633.45 12764633.55 0.0074 0.0069

Jupiter 30236-06-01 21:07 G 12764684.25 12764684.38 12764684.51 0.0516 0.0090

Pluto 30236-07-09 01:26 G 12764721.44 12764721.56 12764721.73 0.0074 0.0051

Pluto 30236-10-05 04:19 G 12764809.51 12764809.68 12764809.87 0.0074 0.0032

Pluto 30237-01-01 06:57 G 12764897.60 12764897.79 12764898.00 0.0074 0.0014

Pluto 30237-03-30 09:50 G 12764985.71 12764985.91 12764986.11 0.0074 0.0004

Pluto 30237-06-26 12:14 G 12765073.83 12765074.01 12765074.21 0.0074 0.0022

Pluto 30237-09-22 14:38 G 12765161.96 12765162.11 12765162.29 0.0074 0.0040

Pluto 30237-12-19 17:17 G 12765250.11 12765250.22 12765250.36 0.0074 0.0057

Uranus 30239-12-09 09:36 G 12765969.86 12765969.90 12765969.96 0.0134 0.0128

Uranus 30240-03-06 15:50 G 12766058.05 12766058.16 12766058.27 0.0134 0.0105

Uranus 30240-06-02 22:05 G 12766146.28 12766146.42 12766146.56 0.0134 0.0082

Uranus 30240-08-30 03:50 G 12766234.51 12766234.66 12766234.83 0.0134 0.0060

Uranus 30240-11-26 10:05 G 12766322.75 12766322.92 12766323.09 0.0134 0.0037

Uranus 30241-02-22 16:05 G 12766410.99 12766411.17 12766411.34 0.0134 0.0015

Uranus 30241-05-21 21:50 G 12766499.24 12766499.41 12766499.59 0.0134 0.0008

Uranus 30241-08-18 03:50 G 12766587.49 12766587.66 12766587.83 0.0134 0.0030

Uranus 30241-11-14 09:36 G 12766675.74 12766675.90 12766676.06 0.0134 0.0052

Uranus 30242-02-10 15:07 G 12766764.00 12766764.13 12766764.29 0.0133 0.0074

Uranus 30242-05-09 21:07 G 12766852.26 12766852.38 12766852.50 0.0133 0.0095

Mars 30242-06-13 06:57 G 12766886.72 12766886.79 12766886.86 0.1771 0.1433

Jupiter 30242-07-31 13:26 G 12766934.90 12766935.06 12766935.22 0.0509 0.0216

Uranus 30242-08-06 02:24 G 12766940.53 12766940.60 12766940.70 0.0133 0.0117

Earth 30244-09-29 10:48 G 12767725.91 12767725.95 12767726.00 0.2670 0.2540

Saturn 30245-03-28 06:43 G 12767905.63 12767905.78 12767905.93 0.0297 0.0150

Saturn 30245-06-25 05:31 G 12767994.56 12767994.73 12767994.90 0.0297 0.0032

Saturn 30245-09-22 03:50 G 12768083.54 12768083.66 12768083.78 0.0297 0.0211

Moon 30247-04-03 23:02 G 12768642.35 12768642.46 12768642.57 0.2663 0.0082

Earth 30247-04-03 23:45 G 12768642.38 12768642.49 12768642.60 0.2662 0.0136 *

Venus 30247-12-28 06:00 G 12768910.72 12768910.75 12768910.78 0.3682 0.3503

Jupiter 30248-03-21 00:29 G 12768994.39 12768994.52 12768994.65 0.0518 0.0074

Mars 30251-01-09 19:41 G 12770019.18 12770019.32 12770019.47 0.1759 0.0406

Mars 30251-11-03 15:07 G 12770317.01 12770317.13 12770317.25 0.1779 0.0404

Venus 30251-12-30 01:12 G 12770373.44 12770373.55 12770373.67 0.3690 0.1954

Venus 30253-07-13 00:00 G 12770934.40 12770934.50 12770934.60 0.3681 0.1671

Jupiter 30254-05-19 11:17 G 12771244.87 12771244.97 12771245.08 0.0508 0.0412

Jupiter 30254-08-17 17:45 G 12771335.13 12771335.24 12771335.36 0.0511 0.0371

Venus 30257-07-15 01:12 G 12772397.43 12772397.55 12772397.68 0.3691 0.1017

Moon 30257-10-02 15:50 G 12772477.01 12772477.16 12772477.31 0.2676 0.0132

Earth 30257-10-02 16:33 G 12772477.04 12772477.19 12772477.34 0.2669 0.0241 *

Venus 30259-01-26 18:00 G 12772958.14 12772958.25 12772958.36 0.3680 0.0207

Saturn 30259-04-20 18:00 G 12773042.16 12773042.25 12773042.34 0.0264 0.0191

Saturn 30259-07-18 04:48 G 12773130.57 12773130.70 12773130.82 0.0264 0.0093

Saturn 30259-10-14 15:36 G 12773219.01 12773219.15 12773219.28 0.0264 0.0009

Jupiter 30260-01-08 04:33 G 12773304.57 12773304.69 12773304.81 0.0518 0.0219

Saturn 30260-01-11 02:24 G 12773307.47 12773307.60 12773307.73 0.0264 0.0105

Moon 30260-04-05 17:31 G 12773393.13 12773393.23 12773393.32 0.2667 0.1431

Earth 30260-04-05 17:45 G 12773393.15 12773393.24 12773393.33 0.2662 0.1544 *

Jupiter 30260-04-06 11:17 G 12773393.89 12773393.97 12773394.07 0.0516 0.0376

Saturn 30260-04-08 13:26 G 12773395.98 12773396.06 12773396.15 0.0263 0.0206

Mars 30260-05-31 22:05 G 12773449.30 12773449.42 12773449.55 0.1750 0.0945

Mars 30261-03-25 23:17 G 12773747.36 12773747.47 12773747.59 0.1787 0.0645

Venus 30264-08-11 12:14 G 12774981.92 12774982.01 12774982.11 0.3680 0.2174

Jupiter 30266-06-05 15:21 G 12775644.97 12775645.14 12775645.30 0.0510 0.0170

Moon 30267-03-30 16:48 G 12775943.14 12775943.20 12775943.25 0.2655 0.2318

Earth 30267-03-30 16:48 G 12775943.15 12775943.20 12775943.26 0.2662 0.2328 *

Mars 30270-08-16 07:41 G 12777177.78 12777177.82 12777177.86 0.1796 0.1680

Jupiter 30271-10-27 08:53 G 12777614.78 12777614.87 12777614.96 0.0519 0.0362

Jupiter 30272-01-24 15:36 G 12777704.03 12777704.15 12777704.26 0.0516 0.0232

Saturn 30274-08-15 06:00 G 12778637.62 12778637.75 12778637.88 0.0297 0.0199

Saturn 30274-11-12 05:02 G 12778726.53 12778726.71 12778726.88 0.0297 0.0017

Saturn 30275-02-09 03:21 G 12778815.50 12778815.64 12778815.79 0.0297 0.0164

Neptune 30277-05-12 06:43 G 12779638.76 12779638.78 12779638.84 0.0088 0.0085

Neptune 30277-08-08 08:09 G 12779726.79 12779726.84 12779726.92 0.0088 0.0078

Neptune 30277-11-04 09:36 G 12779814.84 12779814.90 12779815.00 0.0088 0.0071

Neptune 30278-01-31 11:02 G 12779902.88 12779902.96 12779903.07 0.0088 0.0064

Jupiter 30278-03-24 13:12 G 12779954.88 12779955.05 12779955.23 0.0509 0.0028

Neptune 30278-04-29 12:57 G 12779990.93 12779991.04 12779991.14 0.0088 0.0056

Neptune 30278-07-26 14:09 G 12780078.98 12780079.09 12780079.21 0.0088 0.0049

Neptune 30278-10-22 15:36 G 12780167.04 12780167.15 12780167.28 0.0088 0.0042

Neptune 30279-01-18 17:02 G 12780255.09 12780255.21 12780255.35 0.0088 0.0035

Neptune 30279-04-16 18:29 G 12780343.15 12780343.27 12780343.41 0.0088 0.0028

Neptune 30279-07-13 20:09 G 12780431.21 12780431.34 12780431.48 0.0088 0.0020

Neptune 30279-10-09 21:36 G 12780519.27 12780519.40 12780519.54 0.0088 0.0013

Neptune 30280-01-05 23:02 G 12780607.33 12780607.46 12780607.60 0.0088 0.0006

Moon 30280-04-01 10:05 G 12780693.82 12780693.92 12780694.02 0.2659 0.1057

Earth 30280-04-01 10:48 G 12780693.84 12780693.95 12780694.05 0.2662 0.0968 *

Neptune 30280-04-03 00:43 G 12780695.39 12780695.53 12780695.67 0.0088 0.0003

Neptune 30280-06-30 02:09 G 12780783.45 12780783.59 12780783.73 0.0088 0.0009

Neptune 30280-09-26 03:36 G 12780871.51 12780871.65 12780871.79 0.0088 0.0017

Neptune 30280-12-23 05:02 G 12780959.58 12780959.71 12780959.85 0.0088 0.0024

Neptune 30281-03-21 06:29 G 12781047.65 12781047.77 12781047.91 0.0088 0.0031

Neptune 30281-06-17 08:09 G 12781135.71 12781135.84 12781135.97 0.0088 0.0039

Neptune 30281-09-13 09:21 G 12781223.78 12781223.89 12781224.02 0.0088 0.0047

Neptune 30281-12-10 11:02 G 12781311.86 12781311.96 12781312.08 0.0088 0.0054

Mars 30281-12-12 06:57 G 12781313.74 12781313.79 12781313.85 0.1771 0.1571

Neptune 30282-03-08 12:29 G 12781399.93 12781400.02 12781400.13 0.0088 0.0061

Neptune 30282-06-04 14:09 G 12781488.01 12781488.09 12781488.18 0.0088 0.0068

Uranus 30282-08-30 12:43 G 12781575.01 12781575.03 12781575.07 0.0144 0.0140

Neptune 30282-08-31 15:50 G 12781576.09 12781576.16 12781576.23 0.0088 0.0076

Uranus 30282-11-26 17:02 G 12781663.14 12781663.21 12781663.29 0.0144 0.0118

Neptune 30282-11-27 17:02 G 12781664.18 12781664.21 12781664.27 0.0088 0.0084

Uranus 30283-02-22 20:53 G 12781751.28 12781751.37 12781751.48 0.0144 0.0098

Uranus 30283-05-22 01:12 G 12781839.43 12781839.55 12781839.67 0.0144 0.0075

Jupiter 30283-08-15 13:12 G 12781925.02 12781925.05 12781925.08 0.0520 0.0502

Uranus 30283-08-18 05:17 G 12781927.59 12781927.72 12781927.85 0.0144 0.0054

Jupiter 30283-11-12 19:41 G 12782014.19 12782014.32 12782014.45 0.0517 0.0087

Uranus 30283-11-14 09:36 G 12782015.76 12782015.90 12782016.03 0.0144 0.0032

Uranus 30284-02-10 13:41 G 12782103.93 12782104.07 12782104.21 0.0144 0.0009

Uranus 30284-05-08 18:00 G 12782192.11 12782192.25 12782192.39 0.0145 0.0014

Uranus 30284-08-04 22:05 G 12782280.29 12782280.42 12782280.56 0.0145 0.0036

Uranus 30284-11-01 02:24 G 12782368.47 12782368.60 12782368.73 0.0145 0.0058

Uranus 30285-01-28 06:43 G 12782456.66 12782456.78 12782456.90 0.0145 0.0081

Uranus 30285-04-26 11:02 G 12782544.86 12782544.96 12782545.06 0.0145 0.0104

Uranus 30285-07-23 15:07 G 12782633.08 12782633.13 12782633.21 0.0145 0.0128

Saturn 30288-09-06 20:09 G 12783774.27 12783774.34 12783774.42 0.0265 0.0222

Saturn 30288-12-04 06:57 G 12783862.67 12783862.79 12783862.91 0.0264 0.0125

Saturn 30289-03-02 17:45 G 12783951.10 12783951.24 12783951.38 0.0264 0.0027

Saturn 30289-05-30 04:33 G 12784039.56 12784039.69 12784039.82 0.0264 0.0073

Saturn 30289-08-26 15:36 G 12784128.05 12784128.15 12784128.25 0.0264 0.0173

Jupiter 30290-01-10 11:02 G 12784264.80 12784264.96 12784265.12 0.0509 0.0222

Mars 30290-07-10 20:24 G 12784446.20 12784446.35 12784446.49 0.1759 0.0599

Moon 30290-09-30 15:50 G 12784528.07 12784528.16 12784528.25 0.2673 0.2136

Earth 30290-09-30 17:17 G 12784528.12 12784528.22 12784528.32 0.2670 0.2000 *

Mars 30291-05-04 15:07 G 12784744.01 12784744.13 12784744.25 0.1779 0.0528

Moon 30293-04-04 03:50 G 12785444.55 12785444.66 12785444.77 0.2663 0.0283

Earth 30293-04-04 04:33 G 12785444.58 12785444.69 12785444.80 0.2662 0.0426 *

Jupiter 30295-08-31 23:31 G 12786324.35 12786324.48 12786324.61 0.0517 0.0062

Mars 30299-11-30 22:33 G 12787876.30 12787876.44 12787876.57 0.1750 0.0775

Mars 30300-09-24 23:31 G 12788174.36 12788174.48 12788174.60 0.1787 0.0501

Jupiter 30301-10-30 08:53 G 12788574.77 12788574.87 12788574.98 0.0508 0.0416

Jupiter 30302-01-28 15:36 G 12788665.03 12788665.15 12788665.27 0.0511 0.0368

Moon 30303-10-04 22:19 G 12789279.29 12789279.43 12789279.58 0.2676 0.0700

Earth 30303-10-04 23:02 G 12789279.31 12789279.46 12789279.60 0.2669 0.0768 *

Saturn 30304-01-03 04:48 G 12789369.62 12789369.70 12789369.81 0.0297 0.0250

Saturn 30304-04-01 04:05 G 12789458.50 12789458.67 12789458.85 0.0297 0.0065

Saturn 30304-06-29 02:53 G 12789547.46 12789547.62 12789547.78 0.0297 0.0116

Venus 30304-08-04 04:05 G 12789583.60 12789583.67 12789583.74 0.3681 0.2879

Saturn 30304-09-26 00:57 G 12789636.52 12789636.54 12789636.57 0.0298 0.0294

Moon 30306-04-07 22:19 G 12790195.35 12790195.43 12790195.51 0.2668 0.1850

Earth 30306-04-07 22:33 G 12790195.36 12790195.44 12790195.53 0.2662 0.1837 *

Jupiter 30307-06-21 02:53 G 12790634.50 12790634.62 12790634.74 0.0518 0.0221

Jupiter 30307-09-18 09:36 G 12790723.81 12790723.90 12790724.00 0.0515 0.0373

Venus 30308-08-06 00:57 G 12791046.41 12791046.54 12791046.67 0.3690 0.0954

Mars 30310-02-15 07:41 G 12791604.76 12791604.82 12791604.88 0.1795 0.1547

Venus 30310-02-17 22:05 G 12791607.31 12791607.42 12791607.52 0.3681 0.1041

Moon 30313-03-31 21:36 G 12792745.33 12792745.40 12792745.46 0.2655 0.2112

Earth 30313-03-31 21:50 G 12792745.34 12792745.41 12792745.47 0.2662 0.2045 *

Jupiter 30313-11-16 13:41 G 12792974.91 12792975.07 12792975.24 0.0510 0.0178

Venus 30314-02-20 00:57 G 12793070.43 12793070.54 12793070.65 0.3691 0.1986

Venus 30315-09-03 16:05 G 12793631.06 12793631.17 12793631.28 0.3680 0.0888

Saturn 30318-01-25 23:45 G 12794506.44 12794506.49 12794506.55 0.0265 0.0241

Saturn 30318-04-24 10:19 G 12794594.82 12794594.93 12794595.05 0.0264 0.0144

Saturn 30318-07-21 21:07 G 12794683.25 12794683.38 12794683.52 0.0264 0.0046

Saturn 30318-10-18 07:55 G 12794771.70 12794771.83 12794771.97 0.0264 0.0054

Saturn 30319-01-14 18:57 G 12794860.18 12794860.29 12794860.41 0.0263 0.0153

Jupiter 30319-04-09 06:57 G 12794944.70 12794944.79 12794944.88 0.0519 0.0369

Saturn 30319-04-13 06:00 G 12794948.72 12794948.75 12794948.79 0.0263 0.0254

Jupiter 30319-07-07 13:26 G 12795033.95 12795034.06 12795034.18 0.0516 0.0225

Venus 30321-03-19 10:33 G 12795654.87 12795654.94 12795655.01 0.3679 0.2856

Mars 30321-06-13 07:12 G 12795740.77 12795740.80 12795740.82 0.1771 0.1711

Uranus 30323-12-30 15:50 G 12796671.11 12796671.16 12796671.24 0.0134 0.0125

Uranus 30324-03-27 21:50 G 12796759.31 12796759.41 12796759.54 0.0134 0.0102

Uranus 30324-06-24 04:05 G 12796847.54 12796847.67 12796847.83 0.0134 0.0079

Uranus 30324-09-20 10:19 G 12796935.77 12796935.93 12796936.10 0.0134 0.0056

Uranus 30324-12-17 16:19 G 12797024.01 12797024.18 12797024.36 0.0134 0.0034

Uranus 30325-03-15 22:19 G 12797112.26 12797112.43 12797112.61 0.0134 0.0011

Uranus 30325-06-12 04:19 G 12797200.51 12797200.68 12797200.86 0.0134 0.0012

Jupiter 30325-09-04 11:17 G 12797284.79 12797284.97 12797285.14 0.0509 0.0025

Uranus 30325-09-08 10:05 G 12797288.76 12797288.92 12797289.10 0.0134 0.0034

Uranus 30325-12-05 15:50 G 12797377.01 12797377.16 12797377.33 0.0134 0.0056

Uranus 30326-03-03 21:36 G 12797465.27 12797465.40 12797465.55 0.0134 0.0078

Moon 30326-04-03 14:53 G 12797496.01 12797496.12 12797496.22 0.2660 0.0752

Earth 30326-04-03 15:36 G 12797496.04 12797496.15 12797496.26 0.2662 0.0678 *

Uranus 30326-05-31 03:21 G 12797553.53 12797553.64 12797553.77 0.0134 0.0099

Uranus 30326-08-27 08:53 G 12797641.81 12797641.87 12797641.96 0.0133 0.0121

Mars 30330-01-09 20:53 G 12798873.23 12798873.37 12798873.50 0.1759 0.0780

Mars 30330-11-03 15:07 G 12799171.02 12799171.13 12799171.25 0.1779 0.0675

Jupiter 30331-01-26 11:17 G 12799254.95 12799254.97 12799254.99 0.0520 0.0510

Jupiter 30331-04-25 17:45 G 12799344.11 12799344.24 12799344.37 0.0517 0.0081

Saturn 30333-08-19 03:21 G 12800190.48 12800190.64 12800190.80 0.0297 0.0116

Saturn 30333-11-16 02:09 G 12800279.42 12800279.59 12800279.76 0.0297 0.0066

Saturn 30334-02-13 00:14 G 12800368.42 12800368.51 12800368.61 0.0298 0.0245

Moon 30336-10-01 22:33 G 12801330.33 12801330.44 12801330.56 0.2674 0.1689

Earth 30336-10-01 23:45 G 12801330.36 12801330.49 12801330.62 0.2670 0.1452 *

Jupiter 30337-06-23 09:07 G 12801594.72 12801594.88 12801595.04 0.0509 0.0220

Moon 30339-04-06 08:53 G 12802246.76 12802246.87 12802246.98 0.2664 0.0643

Earth 30339-04-06 09:36 G 12802246.79 12802246.90 12802247.00 0.2662 0.0721 *

Mars 30339-06-01 23:02 G 12802303.32 12802303.46 12802303.60 0.1751 0.0591

Mars 30340-03-25 23:31 G 12802601.36 12802601.48 12802601.60 0.1787 0.0377

Jupiter 30343-02-11 22:05 G 12803654.29 12803654.42 12803654.55 0.0518 0.0062

Saturn 30347-09-11 12:29 G 12805326.92 12805327.02 12805327.12 0.0264 0.0177

Saturn 30347-12-08 23:17 G 12805415.34 12805415.47 12805415.60 0.0264 0.0080

Saturn 30348-03-06 09:50 G 12805503.78 12805503.91 12805504.05 0.0264 0.0021

Saturn 30348-06-02 20:53 G 12805592.25 12805592.37 12805592.49 0.0264 0.0119

Saturn 30348-08-30 07:55 G 12805680.76 12805680.83 12805680.91 0.0263 0.0220

Jupiter 30349-04-11 06:43 G 12805904.68 12805904.78 12805904.88 0.0508 0.0418

Jupiter 30349-07-10 13:26 G 12805994.94 12805995.06 12805995.18 0.0511 0.0367

Mars 30349-08-16 07:41 G 12806031.75 12806031.82 12806031.89 0.1795 0.1416

Moon 30349-10-05 04:48 G 12806081.57 12806081.70 12806081.84 0.2676 0.1250

Earth 30349-10-05 05:17 G 12806081.59 12806081.72 12806081.86 0.2669 0.1292 *

Moon 30352-04-08 03:21 G 12806997.57 12806997.64 12806997.71 0.2669 0.2056

Earth 30352-04-08 03:36 G 12806997.58 12806997.65 12806997.71 0.2662 0.2127 *

Jupiter 30354-12-01 02:09 G 12807964.47 12807964.59 12807964.71 0.0518 0.0207

Jupiter 30355-02-28 08:53 G 12808053.78 12808053.87 12808053.96 0.0515 0.0387

Moon 30359-04-02 02:09 G 12809547.51 12809547.59 12809547.67 0.2656 0.1755

Earth 30359-04-02 02:38 G 12809547.52 12809547.61 12809547.69 0.2661 0.1761 *

Venus 30359-08-28 00:29 G 12809695.44 12809695.52 12809695.59 0.3689 0.3007

Venus 30361-03-11 02:09 G 12810256.50 12810256.59 12810256.68 0.3681 0.2250

Neptune 30361-04-28 03:07 G 12810304.60 12810304.63 12810304.66 0.0089 0.0087

Jupiter 30361-04-28 11:45 G 12810304.83 12810304.99 12810305.16 0.0510 0.0179

Neptune 30361-07-25 06:14 G 12810392.68 12810392.76 12810392.85 0.0089 0.0077

Neptune 30361-10-21 09:36 G 12810480.78 12810480.90 12810481.02 0.0089 0.0067

Neptune 30362-01-17 12:43 G 12810568.89 12810569.03 12810569.17 0.0089 0.0057

Neptune 30362-04-15 15:36 G 12810657.01 12810657.15 12810657.32 0.0089 0.0048

Neptune 30362-07-12 18:43 G 12810745.13 12810745.28 12810745.46 0.0089 0.0038

Neptune 30362-10-08 22:05 G 12810833.25 12810833.42 12810833.60 0.0089 0.0028

Neptune 30363-01-05 01:12 G 12810921.38 12810921.55 12810921.74 0.0089 0.0018

Saturn 30363-01-06 01:26 G 12810922.42 12810922.56 12810922.71 0.0297 0.0172

Neptune 30363-04-03 04:33 G 12811009.51 12811009.69 12811009.87 0.0089 0.0008

Saturn 30363-04-05 00:29 G 12811011.35 12811011.52 12811011.70 0.0297 0.0013

Neptune 30363-06-30 07:41 G 12811097.64 12811097.82 12811098.00 0.0089 0.0002

Saturn 30363-07-02 22:48 G 12811100.33 12811100.45 12811100.59 0.0298 0.0193

Neptune 30363-09-26 10:48 G 12811185.77 12811185.95 12811186.13 0.0089 0.0012

Neptune 30363-12-23 13:41 G 12811273.90 12811274.07 12811274.25 0.0089 0.0021

Neptune 30364-03-20 16:33 G 12811362.03 12811362.19 12811362.37 0.0089 0.0031

Neptune 30364-06-16 19:55 G 12811450.17 12811450.33 12811450.49 0.0089 0.0040

Neptune 30364-09-12 22:48 G 12811538.31 12811538.45 12811538.61 0.0089 0.0050

Neptune 30364-12-10 01:41 G 12811626.45 12811626.57 12811626.72 0.0089 0.0060

Neptune 30365-03-08 04:48 G 12811714.60 12811714.70 12811714.82 0.0089 0.0069

Venus 30365-03-13 00:43 G 12811719.40 12811719.53 12811719.66 0.3690 0.0053

Neptune 30365-06-04 07:26 G 12811802.75 12811802.81 12811802.92 0.0089 0.0079

Neptune 30365-08-31 10:33 G 12811890.94 12811890.94 12811890.98 0.0089 0.0089

Jupiter 30366-09-19 05:31 G 12812274.64 12812274.73 12812274.82 0.0519 0.0367

Uranus 30366-09-20 19:41 G 12812276.29 12812276.32 12812276.38 0.0144 0.0137

Venus 30366-09-24 20:09 G 12812280.23 12812280.34 12812280.45 0.3680 0.0383

Jupiter 30366-12-17 12:00 G 12812363.88 12812364.00 12812364.12 0.0516 0.0225

Uranus 30366-12-18 00:00 G 12812364.42 12812364.50 12812364.58 0.0144 0.0115

Uranus 30367-03-16 03:50 G 12812452.56 12812452.66 12812452.77 0.0144 0.0094

Uranus 30367-06-12 08:09 G 12812540.72 12812540.84 12812540.96 0.0144 0.0072

Uranus 30367-09-08 12:14 G 12812628.88 12812629.01 12812629.14 0.0144 0.0050

Uranus 30367-12-05 16:19 G 12812717.05 12812717.18 12812717.32 0.0144 0.0028

Uranus 30368-03-02 20:38 G 12812805.22 12812805.36 12812805.50 0.0144 0.0006

Uranus 30368-05-30 00:43 G 12812893.39 12812893.53 12812893.67 0.0145 0.0017

Uranus 30368-08-26 05:02 G 12812981.57 12812981.71 12812981.85 0.0145 0.0039

Uranus 30368-11-22 09:21 G 12813069.76 12813069.89 12813070.02 0.0145 0.0062

Uranus 30369-02-18 13:26 G 12813157.95 12813158.06 12813158.18 0.0145 0.0085

Uranus 30369-05-17 17:45 G 12813246.15 12813246.24 12813246.34 0.0145 0.0108

Mars 30369-07-10 21:07 G 12813300.25 12813300.38 12813300.50 0.1759 0.0943

Uranus 30369-08-13 22:05 G 12813334.37 12813334.42 12813334.49 0.0145 0.0131

Mars 30370-05-04 15:21 G 12813598.03 12813598.14 12813598.25 0.1779 0.0814

Venus 30370-09-27 00:29 G 12813743.44 12813743.52 12813743.59 0.3691 0.2930

Moon 30372-04-03 19:41 G 12814298.21 12814298.32 12814298.43 0.2660 0.0530

Earth 30372-04-03 20:24 G 12814298.24 12814298.35 12814298.46 0.2662 0.0388 *

Venus 30372-04-09 14:24 G 12814304.00 12814304.10 12814304.20 0.3680 0.1559

Jupiter 30373-02-14 10:05 G 12814614.75 12814614.92 12814615.10 0.0509 0.0012

Saturn 30377-01-28 15:36 G 12816059.07 12816059.15 12816059.25 0.0264 0.0199

Saturn 30377-04-27 02:24 G 12816147.48 12816147.60 12816147.73 0.0264 0.0101

Saturn 30377-07-24 13:12 G 12816235.91 12816236.05 12816236.19 0.0264 0.0002

Saturn 30377-10-21 00:00 G 12816324.37 12816324.50 12816324.63 0.0263 0.0097

Venus 30377-10-24 08:53 G 12816327.84 12816327.87 12816327.89 0.3679 0.3559

Saturn 30378-01-17 11:02 G 12816412.87 12816412.96 12816413.05 0.0263 0.0198

Jupiter 30378-07-08 09:21 G 12816584.88 12816584.89 12816584.91 0.0520 0.0514

Jupiter 30378-10-05 16:05 G 12816674.04 12816674.17 12816674.30 0.0517 0.0078

Mars 30378-11-30 23:31 G 12816730.34 12816730.48 12816730.63 0.1751 0.0400

Mars 30379-09-24 23:31 G 12817028.36 12817028.48 12817028.60 0.1787 0.0236

Moon 30382-10-03 05:02 G 12818132.57 12818132.71 12818132.85 0.2675 0.0959

Earth 30382-10-03 06:14 G 12818132.61 12818132.76 12818132.90 0.2670 0.0921 *

Jupiter 30384-12-03 07:26 G 12818924.65 12818924.81 12818924.97 0.0508 0.0213

Moon 30385-04-06 13:55 G 12819048.97 12819049.08 12819049.18 0.2666 0.0944

Earth 30385-04-06 14:24 G 12819049.00 12819049.10 12819049.20 0.2662 0.1006 *

Mars 30389-02-14 07:41 G 12820458.74 12820458.82 12820458.91 0.1795 0.1279

Jupiter 30390-07-24 20:09 G 12820984.21 12820984.34 12820984.47 0.0518 0.0066

Saturn 30392-05-25 00:00 G 12821654.40 12821654.50 12821654.62 0.0297 0.0227

Saturn 30392-08-21 23:17 G 12821743.30 12821743.47 12821743.65 0.0297 0.0042

Saturn 30392-11-18 21:50 G 12821832.26 12821832.41 12821832.57 0.0298 0.0140

Moon 30395-10-06 11:31 G 12822883.87 12822883.98 12822884.10 0.2676 0.1757

Earth 30395-10-06 11:45 G 12822883.88 12822883.99 12822884.10 0.2670 0.1817 *

Jupiter 30396-09-21 05:02 G 12823234.61 12823234.71 12823234.82 0.0508 0.0410

Jupiter 30396-12-20 11:45 G 12823324.88 12823324.99 12823325.11 0.0511 0.0374

Pluto 30397-04-14 22:05 G 12823440.37 12823440.42 12823440.49 0.0070 0.0062

Pluto 30397-07-11 22:33 G 12823528.37 12823528.44 12823528.54 0.0070 0.0052

Pluto 30397-10-07 23:17 G 12823616.37 12823616.47 12823616.58 0.0070 0.0042

Pluto 30398-01-04 00:00 G 12823704.38 12823704.50 12823704.61 0.0070 0.0032

Pluto 30398-04-02 00:14 G 12823792.40 12823792.51 12823792.64 0.0070 0.0023

Moon 30398-04-09 08:09 G 12823799.80 12823799.84 12823799.89 0.2669 0.2433

Earth 30398-04-09 08:24 G 12823799.81 12823799.85 12823799.90 0.2662 0.2422 *

Pluto 30398-06-29 00:57 G 12823880.42 12823880.54 12823880.67 0.0070 0.0013

Pluto 30398-09-25 01:41 G 12823968.44 12823968.57 12823968.70 0.0070 0.0003

Pluto 30398-12-22 02:09 G 12824056.46 12824056.59 12824056.72 0.0070 0.0007

Pluto 30399-03-20 02:38 G 12824144.49 12824144.61 12824144.74 0.0070 0.0018

Pluto 30399-06-16 03:07 G 12824232.52 12824232.63 12824232.76 0.0071 0.0028

Pluto 30399-09-12 03:50 G 12824320.55 12824320.66 12824320.77 0.0071 0.0038

Pluto 30399-12-09 04:33 G 12824408.59 12824408.69 12824408.78 0.0071 0.0048

Pluto 30400-03-06 04:48 G 12824496.64 12824496.70 12824496.78 0.0071 0.0059

Pluto 30400-06-02 05:17 G 12824584.71 12824584.72 12824584.76 0.0071 0.0069

Jupiter 30402-05-13 00:43 G 12825294.41 12825294.53 12825294.65 0.0519 0.0205

Jupiter 30402-08-10 07:26 G 12825383.72 12825383.81 12825383.90 0.0515 0.0389

Moon 30405-04-02 06:43 G 12826349.70 12826349.78 12826349.87 0.2657 0.1612

Earth 30405-04-02 07:26 G 12826349.71 12826349.81 12826349.90 0.2661 0.1480 *

Saturn 30406-06-17 17:31 G 12826791.18 12826791.23 12826791.30 0.0264 0.0233

Saturn 30406-09-14 04:19 G 12826879.56 12826879.68 12826879.80 0.0264 0.0135

Saturn 30406-12-11 14:53 G 12826967.99 12826968.12 12826968.26 0.0264 0.0038

Saturn 30407-03-10 01:41 G 12827056.44 12827056.57 12827056.71 0.0264 0.0062

Saturn 30407-06-06 12:43 G 12827144.92 12827145.03 12827145.14 0.0263 0.0162

Saturn 30407-09-02 23:45 G 12827233.49 12827233.49 12827233.50 0.0263 0.0262

Uranus 30408-01-19 22:33 G 12827372.37 12827372.44 12827372.52 0.0134 0.0120

Uranus 30408-04-17 04:48 G 12827460.58 12827460.70 12827460.82 0.0134 0.0097

Uranus 30408-07-14 10:33 G 12827548.81 12827548.94 12827549.10 0.0134 0.0075

Jupiter 30408-10-08 09:50 G 12827634.75 12827634.91 12827635.08 0.0510 0.0182

Uranus 30408-10-10 16:48 G 12827637.05 12827637.20 12827637.37 0.0134 0.0052

Uranus 30409-01-06 23:02 G 12827725.29 12827725.46 12827725.63 0.0134 0.0029

Mars 30409-01-08 21:36 G 12827727.29 12827727.40 12827727.52 0.1759 0.1142

Uranus 30409-04-05 05:02 G 12827813.53 12827813.71 12827813.89 0.0134 0.0007

Uranus 30409-07-02 11:02 G 12827901.78 12827901.96 12827902.13 0.0134 0.0016

Uranus 30409-09-28 16:48 G 12827990.03 12827990.20 12827990.37 0.0134 0.0038

Mars 30409-11-02 15:21 G 12828025.03 12828025.14 12828025.24 0.1779 0.0943

Uranus 30409-12-25 22:33 G 12828078.29 12828078.44 12828078.60 0.0134 0.0060

Uranus 30410-03-24 04:19 G 12828166.55 12828166.68 12828166.83 0.0134 0.0082

Uranus 30410-06-20 09:50 G 12828254.82 12828254.91 12828255.04 0.0134 0.0104

Uranus 30410-09-16 15:36 G 12828343.10 12828343.15 12828343.22 0.0134 0.0125

Venus 30412-04-01 06:29 G 12828905.73 12828905.77 12828905.80 0.3682 0.3441

Jupiter 30414-03-01 04:48 G 12829604.61 12829604.70 12829604.80 0.0519 0.0349

Jupiter 30414-05-29 11:31 G 12829693.86 12829693.98 12829694.10 0.0516 0.0244

Venus 30416-04-03 00:14 G 12830368.40 12830368.51 12830368.62 0.3690 0.1975

Venus 30417-10-16 00:14 G 12830929.41 12830929.51 12830929.61 0.3681 0.1609

Moon 30418-04-05 00:29 G 12831100.41 12831100.52 12831100.63 0.2661 0.0157

Earth 30418-04-05 01:12 G 12831100.44 12831100.55 12831100.66 0.2662 0.0105 *

Mars 30418-05-31 23:45 G 12831157.34 12831157.49 12831157.64 0.1751 0.0240

Mars 30419-03-25 23:31 G 12831455.36 12831455.48 12831455.61 0.1787 0.0103

Jupiter 30420-07-27 08:24 G 12831944.68 12831944.85 12831945.03 0.0509 0.0010

Saturn 30421-10-11 21:07 G 12832386.35 12832386.38 12832386.41 0.0297 0.0292

Venus 30421-10-18 00:29 G 12832392.39 12832392.52 12832392.64 0.3690 0.1043

Saturn 30422-01-08 20:24 G 12832475.19 12832475.35 12832475.52 0.0297 0.0106

Saturn 30422-04-07 19:26 G 12832564.14 12832564.31 12832564.47 0.0297 0.0078

Saturn 30422-07-05 17:31 G 12832653.15 12832653.23 12832653.32 0.0298 0.0257

Venus 30423-05-01 18:14 G 12832953.15 12832953.26 12832953.37 0.3680 0.0292

Jupiter 30425-12-18 08:09 G 12833914.82 12833914.84 12833914.87 0.0520 0.0508

Jupiter 30426-03-17 14:38 G 12834003.98 12834004.11 12834004.24 0.0517 0.0082

Mars 30427-10-22 02:09 G 12834587.53 12834587.59 12834587.65 0.1743 0.1589

Mars 30428-08-15 07:55 G 12834885.73 12834885.83 12834885.92 0.1795 0.1138

Moon 30428-10-03 11:45 G 12834934.84 12834934.99 12834935.13 0.2675 0.0615

Earth 30428-10-03 12:43 G 12834934.88 12834935.03 12834935.18 0.2670 0.0377 *

Venus 30428-11-14 12:29 G 12834976.94 12834977.02 12834977.11 0.3680 0.2251

Moon 30431-04-07 18:43 G 12835851.18 12835851.28 12835851.38 0.2667 0.1200

Earth 30431-04-07 19:12 G 12835851.20 12835851.30 12835851.40 0.2662 0.1298 *

Jupiter 30432-05-15 06:43 G 12836254.62 12836254.78 12836254.95 0.0508 0.0195

Saturn 30435-11-04 20:38 G 12837523.34 12837523.36 12837523.40 0.0264 0.0256

Saturn 30436-02-01 07:12 G 12837611.70 12837611.80 12837611.92 0.0264 0.0159

Saturn 30436-04-29 18:00 G 12837700.12 12837700.25 12837700.39 0.0264 0.0061

Saturn 30436-07-27 04:48 G 12837788.56 12837788.70 12837788.84 0.0263 0.0038

Saturn 30436-10-23 15:36 G 12837877.04 12837877.15 12837877.27 0.0263 0.0138

Saturn 30437-01-20 02:38 G 12837965.56 12837965.61 12837965.67 0.0263 0.0238

Jupiter 30438-01-03 18:43 G 12838314.15 12838314.28 12838314.41 0.0518 0.0066

Earth 30438-03-31 18:29 G 12838401.24 12838401.27 12838401.30 0.2661 0.2549

Moon 30438-03-31 18:29 G 12838401.25 12838401.27 12838401.29 0.2655 0.2592 *

Earth 30441-10-06 18:14 G 12839686.19 12839686.26 12839686.33 0.2669 0.2336

Moon 30441-10-06 18:29 G 12839686.21 12839686.27 12839686.32 0.2676 0.2451 *

Neptune 30441-11-11 05:17 G 12839721.72 12839721.72 12839721.76 0.0088 0.0088

Neptune 30442-02-07 06:43 G 12839809.74 12839809.78 12839809.85 0.0088 0.0081

Neptune 30442-05-06 08:09 G 12839897.78 12839897.84 12839897.93 0.0088 0.0074

Neptune 30442-08-02 10:05 G 12839985.83 12839985.92 12839986.01 0.0088 0.0066

Neptune 30442-10-29 11:17 G 12840073.88 12840073.97 12840074.08 0.0088 0.0059

Neptune 30443-01-25 12:43 G 12840161.93 12840162.03 12840162.15 0.0088 0.0052

Neptune 30443-04-23 14:09 G 12840249.98 12840250.09 12840250.22 0.0088 0.0045

Neptune 30443-07-20 15:36 G 12840338.03 12840338.15 12840338.28 0.0088 0.0038

Neptune 30443-10-16 17:02 G 12840426.09 12840426.21 12840426.35 0.0088 0.0031

Neptune 30444-01-12 18:43 G 12840514.15 12840514.28 12840514.41 0.0088 0.0023

Jupiter 30444-03-03 04:05 G 12840564.56 12840564.67 12840564.78 0.0508 0.0396

Neptune 30444-04-09 20:09 G 12840602.21 12840602.34 12840602.48 0.0088 0.0016

Jupiter 30444-06-01 10:33 G 12840654.83 12840654.94 12840655.06 0.0510 0.0386

Neptune 30444-07-06 21:36 G 12840690.26 12840690.40 12840690.54 0.0088 0.0008

Neptune 30444-10-02 23:02 G 12840778.33 12840778.46 12840778.60 0.0088 0.0003

Neptune 30444-12-30 00:43 G 12840866.39 12840866.53 12840866.66 0.0088 0.0007

Neptune 30445-03-28 02:09 G 12840954.45 12840954.59 12840954.73 0.0088 0.0014

Neptune 30445-06-24 03:21 G 12841042.52 12841042.64 12841042.79 0.0088 0.0022

Neptune 30445-09-20 05:02 G 12841130.58 12841130.71 12841130.84 0.0088 0.0028

Neptune 30445-12-17 06:29 G 12841218.65 12841218.77 12841218.90 0.0088 0.0036

Neptune 30446-03-15 07:55 G 12841306.72 12841306.83 12841306.96 0.0088 0.0043

Neptune 30446-06-11 09:21 G 12841394.79 12841394.89 12841395.02 0.0088 0.0051

Neptune 30446-09-07 11:02 G 12841482.86 12841482.96 12841483.07 0.0088 0.0058

Neptune 30446-12-04 12:29 G 12841570.94 12841571.02 12841571.12 0.0088 0.0065

Neptune 30447-03-02 14:09 G 12841659.01 12841659.09 12841659.17 0.0088 0.0073

Neptune 30447-05-29 15:21 G 12841747.10 12841747.14 12841747.21 0.0088 0.0081

Neptune 30447-08-25 17:02 G 12841835.21 12841835.21 12841835.24 0.0088 0.0088

Mars 30448-07-09 22:05 G 12842154.32 12842154.42 12842154.52 0.1759 0.1314

Mars 30449-05-03 15:21 G 12842452.04 12842452.14 12842452.24 0.1779 0.1085

Jupiter 30449-10-22 23:02 G 12842624.34 12842624.46 12842624.58 0.0519 0.0207

Jupiter 30450-01-20 05:45 G 12842713.66 12842713.74 12842713.83 0.0516 0.0388

Uranus 30450-10-11 03:07 G 12842977.58 12842977.63 12842977.70 0.0144 0.0130

Uranus 30451-01-07 07:12 G 12843065.72 12843065.80 12843065.90 0.0144 0.0109

Moon 30451-04-03 11:31 G 12843151.88 12843151.98 12843152.08 0.2657 0.1219

Earth 30451-04-03 12:14 G 12843151.91 12843152.01 12843152.11 0.2661 0.1194 *

Uranus 30451-04-05 11:17 G 12843153.87 12843153.97 12843154.08 0.0144 0.0088

Saturn 30451-05-28 18:57 G 12843207.14 12843207.29 12843207.44 0.0297 0.0162

Uranus 30451-07-02 15:21 G 12843242.02 12843242.14 12843242.27 0.0144 0.0066

Saturn 30451-08-25 18:00 G 12843296.07 12843296.25 12843296.42 0.0298 0.0022

Uranus 30451-09-28 19:26 G 12843330.18 12843330.31 12843330.45 0.0144 0.0044

Saturn 30451-11-22 16:19 G 12843385.06 12843385.18 12843385.31 0.0298 0.0203

Uranus 30451-12-25 23:45 G 12843418.35 12843418.49 12843418.63 0.0144 0.0022

Uranus 30452-03-23 03:50 G 12843506.52 12843506.66 12843506.80 0.0144 0.0003

Uranus 30452-06-19 08:09 G 12843594.70 12843594.84 12843594.98 0.0145 0.0023

Uranus 30452-09-15 12:14 G 12843682.88 12843683.01 12843683.15 0.0145 0.0045

Uranus 30452-12-12 16:33 G 12843771.07 12843771.19 12843771.32 0.0145 0.0068

Uranus 30453-03-10 20:53 G 12843859.26 12843859.37 12843859.48 0.0145 0.0091

Uranus 30453-06-07 01:12 G 12843947.47 12843947.55 12843947.64 0.0145 0.0114

Uranus 30453-09-03 05:31 G 12844035.69 12844035.73 12844035.78 0.0145 0.0137

Jupiter 30456-03-20 08:38 G 12844964.70 12844964.86 12844965.03 0.0510 0.0194

Mars 30457-11-30 00:29 G 12845584.37 12845584.52 12845584.67 0.1751 0.0042

Mars 30458-09-23 23:45 G 12845882.36 12845882.49 12845882.61 0.1786 0.0078

Jupiter 30461-08-11 03:21 G 12846934.55 12846934.64 12846934.74 0.0519 0.0346

Earth 30461-10-01 13:12 G 12846986.03 12846986.05 12846986.07 0.2670 0.2643

Jupiter 30461-11-08 10:05 G 12847023.81 12847023.92 12847024.04 0.0516 0.0248

Moon 30464-04-05 05:31 G 12847902.61 12847902.73 12847902.84 0.2662 0.0115

Earth 30464-04-05 06:00 G 12847902.64 12847902.75 12847902.86 0.2661 0.0202 *

Saturn 30465-06-20 09:07 G 12848343.79 12848343.88 12848343.97 0.0264 0.0194

Saturn 30465-09-16 19:41 G 12848432.20 12848432.32 12848432.45 0.0264 0.0097

Saturn 30465-12-14 06:29 G 12848520.63 12848520.77 12848520.91 0.0263 0.0002

Saturn 30466-03-12 17:17 G 12848609.09 12848609.22 12848609.35 0.0263 0.0101

Saturn 30466-06-09 04:05 G 12848697.59 12848697.67 12848697.77 0.0263 0.0201

Mars 30467-04-22 02:38 G 12849014.52 12849014.61 12849014.70 0.1743 0.1406

Jupiter 30468-01-07 06:43 G 12849274.61 12849274.78 12849274.96 0.0509 0.0006

Mars 30468-02-14 07:41 G 12849312.72 12849312.82 12849312.93 0.1795 0.1013

Venus 30468-11-06 04:33 G 12849578.62 12849578.69 12849578.76 0.3681 0.2810

Venus 30472-11-08 00:14 G 12851041.38 12851041.51 12851041.63 0.3690 0.0943

Jupiter 30473-05-30 07:41 G 12851244.78 12851244.82 12851244.87 0.0520 0.0487

Jupiter 30473-08-27 14:09 G 12851333.97 12851334.09 12851334.22 0.0517 0.0106

Venus 30474-05-22 22:19 G 12851602.32 12851602.43 12851602.54 0.3681 0.0957

Moon 30474-10-04 18:14 G 12851737.11 12851737.26 12851737.41 0.2676 0.0146

Earth 30474-10-04 19:12 G 12851737.14 12851737.30 12851737.45 0.2670 0.0170 *

Moon 30477-04-07 23:31 G 12852653.39 12852653.48 12852653.57 0.2667 0.1568

Earth 30477-04-08 00:00 G 12852653.41 12852653.50 12852653.59 0.2662 0.1587 *

Venus 30478-05-25 00:00 G 12853065.40 12853065.50 12853065.61 0.3691 0.2028

Jupiter 30479-10-26 05:17 G 12853584.56 12853584.72 12853584.89 0.0509 0.0185

Venus 30479-12-06 16:33 G 12853626.08 12853626.19 12853626.30 0.3680 0.0970

Saturn 30480-10-14 15:07 G 12853939.02 12853939.13 12853939.24 0.0297 0.0234

Saturn 30481-01-11 14:24 G 12854027.93 12854028.10 12854028.27 0.0297 0.0048

Saturn 30481-04-10 12:57 G 12854116.89 12854117.04 12854117.20 0.0298 0.0135

Pluto 30483-02-24 08:24 G 12854801.81 12854801.85 12854801.94 0.0074 0.0071

Pluto 30483-05-23 11:31 G 12854889.84 12854889.98 12854890.13 0.0074 0.0052

Pluto 30483-08-19 14:09 G 12854977.92 12854978.09 12854978.27 0.0074 0.0034

Pluto 30483-11-15 16:48 G 12855066.01 12855066.20 12855066.40 0.0074 0.0016

Pluto 30484-02-11 19:26 G 12855154.11 12855154.31 12855154.51 0.0074 0.0002

Moon 30484-03-31 23:02 G 12855203.40 12855203.46 12855203.51 0.2655 0.2268

Earth 30484-03-31 23:17 G 12855203.41 12855203.47 12855203.52 0.2661 0.2271 *

Pluto 30484-05-09 22:05 G 12855242.23 12855242.42 12855242.61 0.0074 0.0020

Pluto 30484-08-06 00:29 G 12855330.36 12855330.52 12855330.70 0.0074 0.0038

Pluto 30484-11-02 02:38 G 12855418.50 12855418.61 12855418.76 0.0074 0.0056

Pluto 30485-01-29 05:31 G 12855506.72 12855506.73 12855506.76 0.0073 0.0073

Jupiter 30485-06-15 17:31 G 12855644.10 12855644.23 12855644.36 0.0518 0.0058

Venus 30485-06-21 10:48 G 12855649.88 12855649.95 12855650.02 0.3679 0.2945

Mars 30488-01-08 22:33 G 12856581.36 12856581.44 12856581.52 0.1760 0.1491

Mars 30488-11-01 15:36 G 12856879.06 12856879.15 12856879.24 0.1778 0.1234

Jupiter 30491-08-14 03:36 G 12857894.53 12857894.65 12857894.77 0.0508 0.0373

Jupiter 30491-11-12 10:19 G 12857984.83 12857984.93 12857985.03 0.0511 0.0410

Uranus 30492-02-09 05:02 G 12858073.63 12858073.71 12858073.80 0.0134 0.0116

Uranus 30492-05-07 11:17 G 12858161.84 12858161.97 12858162.10 0.0134 0.0093

Uranus 30492-08-03 17:31 G 12858250.08 12858250.23 12858250.38 0.0134 0.0070

Uranus 30492-10-30 23:17 G 12858338.31 12858338.47 12858338.65 0.0134 0.0048

Uranus 30493-01-27 05:31 G 12858426.56 12858426.73 12858426.91 0.0134 0.0025

Uranus 30493-04-25 11:31 G 12858514.80 12858514.98 12858515.16 0.0134 0.0003

Uranus 30493-07-22 17:31 G 12858603.05 12858603.23 12858603.40 0.0134 0.0020

Uranus 30493-10-18 23:17 G 12858691.31 12858691.47 12858691.64 0.0134 0.0042

Uranus 30494-01-15 05:02 G 12858779.56 12858779.71 12858779.87 0.0134 0.0064

Uranus 30494-04-13 10:48 G 12858867.83 12858867.95 12858868.09 0.0134 0.0086

Uranus 30494-07-10 16:48 G 12858956.10 12858956.20 12858956.30 0.0134 0.0107

Uranus 30494-10-06 22:05 G 12859044.39 12859044.42 12859044.48 0.0134 0.0129

Saturn 30494-11-07 12:00 G 12859075.93 12859076.00 12859076.07 0.0264 0.0219

Saturn 30495-02-03 22:33 G 12859164.32 12859164.44 12859164.56 0.0264 0.0122

Saturn 30495-05-03 09:07 G 12859252.75 12859252.88 12859253.02 0.0263 0.0026

Saturn 30495-07-30 19:55 G 12859341.20 12859341.33 12859341.47 0.0263 0.0075

Saturn 30495-10-27 06:57 G 12859429.69 12859429.79 12859429.89 0.0263 0.0175

Moon 30497-04-03 16:19 G 12859954.08 12859954.18 12859954.28 0.2658 0.1056

Earth 30497-04-03 17:02 G 12859954.10 12859954.21 12859954.31 0.2661 0.0909 *

Jupiter 30497-04-03 21:36 G 12859954.28 12859954.40 12859954.52 0.0519 0.0204 *

Mars 30497-05-31 00:57 G 12860011.39 12860011.54 12860011.69 0.1751 0.0145

Jupiter 30497-07-02 04:19 G 12860043.60 12860043.68 12860043.77 0.0516 0.0391

Mars 30498-03-24 23:45 G 12860309.36 12860309.49 12860309.61 0.1786 0.0187

Jupiter 30503-09-01 07:55 G 12862294.67 12862294.83 12862294.99 0.0510 0.0212

Mars 30506-10-22 03:07 G 12863441.53 12863441.63 12863441.74 0.1743 0.1225

Mars 30507-08-16 07:55 G 12863739.72 12863739.83 12863739.94 0.1795 0.0867

Moon 30507-10-03 18:14 G 12863788.18 12863788.26 12863788.35 0.2674 0.2238

Earth 30507-10-03 19:41 G 12863788.23 12863788.32 12863788.42 0.2670 0.2089 *

Jupiter 30509-01-22 01:55 G 12864264.48 12864264.58 12864264.68 0.0520 0.0345

Jupiter 30509-04-21 08:38 G 12864353.74 12864353.86 12864353.97 0.0517 0.0249

Saturn 30510-03-04 12:57 G 12864671.03 12864671.04 12864671.07 0.0297 0.0294

Moon 30510-04-07 10:19 G 12864704.82 12864704.93 12864705.04 0.2664 0.0445

Earth 30510-04-07 11:02 G 12864704.85 12864704.96 12864705.07 0.2661 0.0482 *

Saturn 30510-06-01 12:29 G 12864759.86 12864760.02 12864760.19 0.0297 0.0107

Saturn 30510-08-29 11:31 G 12864848.81 12864848.98 12864849.15 0.0298 0.0077

Saturn 30510-11-26 09:50 G 12864937.83 12864937.91 12864938.00 0.0298 0.0257

Jupiter 30515-06-20 06:00 G 12866604.57 12866604.75 12866604.93 0.0509 0.0019

Moon 30520-10-06 01:12 G 12868539.40 12868539.55 12868539.69 0.2676 0.0560

Earth 30520-10-06 01:41 G 12868539.42 12868539.57 12868539.71 0.2670 0.0697 *

Jupiter 30520-11-10 06:29 G 12868574.73 12868574.77 12868574.82 0.0520 0.0482

Jupiter 30521-02-07 12:57 G 12868663.91 12868664.04 12868664.17 0.0517 0.0111

Moon 30523-04-10 04:33 G 12869455.61 12869455.69 12869455.77 0.2667 0.1778

Earth 30523-04-10 05:02 G 12869455.63 12869455.71 12869455.78 0.2661 0.1882 *

Venus 30523-11-30 23:31 G 12869690.41 12869690.48 12869690.56 0.3689 0.3019

Saturn 30524-03-27 13:41 G 12869808.04 12869808.07 12869808.11 0.0264 0.0255

Saturn 30524-06-24 00:14 G 12869896.40 12869896.51 12869896.62 0.0264 0.0158

Saturn 30524-09-20 10:48 G 12869984.82 12869984.95 12869985.09 0.0263 0.0061

Saturn 30524-12-17 21:36 G 12870073.26 12870073.40 12870073.54 0.0263 0.0038

Saturn 30525-03-16 08:24 G 12870161.73 12870161.85 12870161.97 0.0263 0.0137

Saturn 30525-06-12 19:26 G 12870250.25 12870250.31 12870250.37 0.0263 0.0237

Venus 30525-06-14 02:24 G 12870251.52 12870251.60 12870251.69 0.3681 0.2177

Neptune 30526-01-24 01:55 G 12870475.53 12870475.58 12870475.67 0.0089 0.0082

Neptune 30526-04-22 05:17 G 12870563.63 12870563.72 12870563.84 0.0089 0.0072

Neptune 30526-07-19 08:38 G 12870651.74 12870651.86 12870652.00 0.0089 0.0062

Neptune 30526-10-15 11:45 G 12870739.85 12870739.99 12870740.15 0.0089 0.0052

Neptune 30527-01-11 15:07 G 12870827.97 12870828.13 12870828.30 0.0089 0.0042

Jupiter 30527-04-08 03:50 G 12870914.50 12870914.66 12870914.83 0.0509 0.0176

Neptune 30527-04-09 18:14 G 12870916.09 12870916.26 12870916.44 0.0089 0.0032

Neptune 30527-07-06 21:36 G 12871004.22 12871004.40 12871004.57 0.0089 0.0022

Mars 30527-07-10 23:02 G 12871008.42 12871008.46 12871008.50 0.1760 0.1680

Neptune 30527-10-03 00:43 G 12871092.35 12871092.53 12871092.71 0.0089 0.0012

Neptune 30527-12-30 03:50 G 12871180.48 12871180.66 12871180.84 0.0089 0.0003

Neptune 30528-03-27 06:57 G 12871268.61 12871268.79 12871268.97 0.0089 0.0007

Mars 30528-05-03 15:36 G 12871306.07 12871306.15 12871306.23 0.1778 0.1361

Neptune 30528-06-23 09:50 G 12871356.74 12871356.91 12871357.10 0.0089 0.0017

Neptune 30528-09-19 12:57 G 12871444.87 12871445.04 12871445.22 0.0089 0.0027

Neptune 30528-12-16 16:05 G 12871533.01 12871533.17 12871533.34 0.0089 0.0036

Neptune 30529-03-14 18:57 G 12871621.15 12871621.29 12871621.46 0.0089 0.0046

Neptune 30529-06-10 21:50 G 12871709.29 12871709.41 12871709.57 0.0089 0.0056

Venus 30529-06-16 00:00 G 12871714.36 12871714.50 12871714.63 0.3690 0.0125

Neptune 30529-09-07 01:12 G 12871797.43 12871797.55 12871797.68 0.0089 0.0065

Neptune 30529-12-04 03:50 G 12871885.59 12871885.66 12871885.78 0.0089 0.0076

Neptune 30530-03-02 07:12 G 12871973.75 12871973.80 12871973.86 0.0089 0.0084

Moon 30530-04-03 03:36 G 12872005.58 12872005.65 12872005.72 0.2655 0.2040

Earth 30530-04-03 04:05 G 12872005.60 12872005.67 12872005.74 0.2661 0.1990 *

Venus 30530-12-28 20:24 G 12872275.24 12872275.35 12872275.46 0.3681 0.0308

Jupiter 30532-11-26 17:17 G 12872974.09 12872974.22 12872974.35 0.0518 0.0033

Uranus 30534-11-01 10:33 G 12873678.88 12873678.94 12873679.02 0.0144 0.0124

Venus 30534-12-30 23:45 G 12873738.41 12873738.49 12873738.56 0.3691 0.2988

Uranus 30535-01-28 14:53 G 12873767.02 12873767.12 12873767.22 0.0144 0.0102

Uranus 30535-04-26 18:43 G 12873855.17 12873855.28 12873855.40 0.0144 0.0081

Uranus 30535-07-23 22:48 G 12873943.33 12873943.45 12873943.59 0.0144 0.0060

Uranus 30535-10-20 03:07 G 12874031.49 12874031.63 12874031.76 0.0144 0.0037

Uranus 30536-01-16 07:12 G 12874119.66 12874119.80 12874119.94 0.0144 0.0015

Uranus 30536-04-13 11:31 G 12874207.84 12874207.98 12874208.12 0.0145 0.0008

Uranus 30536-07-10 15:36 G 12874296.01 12874296.15 12874296.29 0.0145 0.0029

Venus 30536-07-13 14:38 G 12874299.01 12874299.11 12874299.21 0.3680 0.1645

Uranus 30536-10-06 19:55 G 12874384.20 12874384.33 12874384.46 0.0145 0.0052

Mars 30536-11-30 01:26 G 12874438.41 12874438.56 12874438.70 0.1751 0.0317

Uranus 30537-01-03 00:00 G 12874472.38 12874472.50 12874472.63 0.0145 0.0075

Uranus 30537-04-01 04:19 G 12874560.58 12874560.68 12874560.79 0.0145 0.0098

Uranus 30537-06-28 08:38 G 12874648.79 12874648.86 12874648.94 0.0145 0.0121

Mars 30537-09-23 23:45 G 12874736.37 12874736.49 12874736.61 0.1786 0.0329

Uranus 30537-09-24 12:57 G 12874737.03 12874737.04 12874737.06 0.0145 0.0144

Jupiter 30539-01-25 02:24 G 12875224.48 12875224.60 12875224.73 0.0508 0.0361

Jupiter 30539-04-25 09:07 G 12875314.78 12875314.88 12875314.98 0.0511 0.0422

Saturn 30539-10-19 08:09 G 12875491.70 12875491.84 12875491.98 0.0297 0.0183

Saturn 30540-01-16 07:12 G 12875580.63 12875580.80 12875580.98 0.0297 0.0005

Saturn 30540-04-14 05:45 G 12875669.61 12875669.74 12875669.88 0.0298 0.0185

Venus 30542-01-27 09:07 G 12876322.86 12876322.88 12876322.89 0.3679 0.3642

Moon 30543-04-05 21:07 G 12876756.28 12876756.38 12876756.49 0.2658 0.0678

Earth 30543-04-05 21:50 G 12876756.30 12876756.41 12876756.52 0.2661 0.0626 *

Jupiter 30544-09-14 20:38 G 12877284.24 12877284.36 12877284.48 0.0519 0.0193

Jupiter 30544-12-13 03:21 G 12877373.56 12877373.64 12877373.72 0.0516 0.0401

Mars 30546-04-22 03:36 G 12877868.53 12877868.65 12877868.77 0.1744 0.1045

Mars 30547-02-14 07:55 G 12878166.72 12878166.83 12878166.94 0.1794 0.0734

Jupiter 30551-02-11 07:41 G 12879624.67 12879624.82 12879624.98 0.0510 0.0239

Moon 30553-10-04 00:57 G 12880590.42 12880590.54 12880590.65 0.2674 0.1740

Earth 30553-10-04 02:09 G 12880590.47 12880590.59 12880590.72 0.2670 0.1546 *

Saturn 30553-11-11 02:53 G 12880628.53 12880628.62 12880628.72 0.0264 0.0186

Saturn 30554-02-07 13:26 G 12880716.93 12880717.06 12880717.19 0.0264 0.0088

Saturn 30554-05-07 00:14 G 12880805.37 12880805.51 12880805.65 0.0263 0.0011

Saturn 30554-08-03 11:02 G 12880893.83 12880893.96 12880894.09 0.0263 0.0110

Saturn 30554-10-30 22:05 G 12880982.33 12880982.42 12880982.50 0.0263 0.0210

Moon 30556-04-07 15:07 G 12881507.02 12881507.13 12881507.24 0.2665 0.0611

Earth 30556-04-07 15:50 G 12881507.05 12881507.16 12881507.26 0.2661 0.0764 *

Jupiter 30556-07-04 00:43 G 12881594.43 12881594.53 12881594.63 0.0519 0.0340

Mars 30556-07-06 16:19 G 12881597.17 12881597.18 12881597.19 0.1803 0.1787

Jupiter 30556-10-01 07:12 G 12881683.69 12881683.80 12881683.92 0.0517 0.0254

Jupiter 30562-11-30 05:31 G 12883934.55 12883934.73 12883934.90 0.0509 0.0042

Moon 30566-10-07 07:55 G 12885341.70 12885341.83 12885341.96 0.2677 0.1269

Earth 30566-10-07 07:55 G 12885341.70 12885341.83 12885341.97 0.2670 0.1228 *

Mars 30567-11-02 15:36 G 12885733.09 12885733.15 12885733.22 0.1778 0.1508

Jupiter 30568-04-22 05:02 G 12885904.66 12885904.71 12885904.76 0.0520 0.0480

Jupiter 30568-07-20 11:31 G 12885993.85 12885993.98 12885994.11 0.0517 0.0112

Saturn 30569-03-07 06:00 G 12886223.66 12886223.75 12886223.86 0.0297 0.0243

Moon 30569-04-10 09:36 G 12886257.84 12886257.90 12886257.96 0.2668 0.2202

Earth 30569-04-10 09:50 G 12886257.84 12886257.91 12886257.97 0.2662 0.2171 *

Saturn 30569-06-04 05:31 G 12886312.56 12886312.73 12886312.90 0.0298 0.0056

Saturn 30569-09-01 04:19 G 12886401.52 12886401.68 12886401.84 0.0298 0.0127

Jupiter 30574-09-18 03:21 G 12888244.47 12888244.64 12888244.81 0.0508 0.0154

Uranus 30576-03-01 11:45 G 12888774.90 12888774.99 12888775.10 0.0134 0.0111

Moon 30576-04-03 08:24 G 12888807.77 12888807.85 12888807.93 0.2655 0.1781

Earth 30576-04-03 08:53 G 12888807.79 12888807.87 12888807.95 0.2661 0.1710 *

Uranus 30576-05-28 18:00 G 12888863.12 12888863.25 12888863.39 0.0134 0.0088

Mars 30576-05-31 01:55 G 12888865.43 12888865.58 12888865.72 0.1752 0.0501

Venus 30576-07-05 06:43 G 12888900.74 12888900.78 12888900.83 0.3682 0.3363

Uranus 30576-08-25 00:14 G 12888951.36 12888951.51 12888951.67 0.0134 0.0065

Uranus 30576-11-21 06:14 G 12889039.60 12889039.76 12889039.93 0.0134 0.0043

Uranus 30577-02-17 12:29 G 12889127.84 12889128.02 12889128.19 0.0134 0.0020

Mars 30577-03-24 23:45 G 12889163.37 12889163.49 12889163.61 0.1786 0.0452

Uranus 30577-05-16 18:14 G 12889216.09 12889216.26 12889216.44 0.0134 0.0005

Uranus 30577-08-13 00:14 G 12889304.34 12889304.51 12889304.69 0.0134 0.0025

Uranus 30577-11-09 06:00 G 12889392.59 12889392.75 12889392.92 0.0134 0.0047

Uranus 30578-02-05 12:00 G 12889480.85 12889481.00 12889481.15 0.0134 0.0069

Uranus 30578-05-04 17:31 G 12889569.11 12889569.23 12889569.37 0.0134 0.0091

Uranus 30578-07-31 23:31 G 12889657.39 12889657.48 12889657.58 0.0134 0.0112

Uranus 30578-10-28 05:02 G 12889745.71 12889745.71 12889745.73 0.0134 0.0133

Jupiter 30580-05-08 16:05 G 12890304.04 12890304.17 12890304.30 0.0518 0.0028

Venus 30580-07-06 23:17 G 12890363.36 12890363.47 12890363.59 0.3690 0.1977

Venus 30582-01-19 00:29 G 12890924.42 12890924.52 12890924.62 0.3681 0.1539

Saturn 30583-03-31 04:33 G 12891360.62 12891360.69 12891360.77 0.0264 0.0221

Saturn 30583-06-27 15:07 G 12891449.01 12891449.13 12891449.25 0.0264 0.0124

Saturn 30583-09-24 01:55 G 12891537.44 12891537.58 12891537.71 0.0263 0.0027

Saturn 30583-12-21 12:29 G 12891625.89 12891626.02 12891626.16 0.0263 0.0073

Saturn 30584-03-18 23:17 G 12891714.37 12891714.47 12891714.58 0.0263 0.0173

Mars 30585-10-21 04:05 G 12892295.54 12892295.67 12892295.81 0.1743 0.0857

Venus 30586-01-20 23:31 G 12892387.36 12892387.48 12892387.61 0.3690 0.1081

Jupiter 30586-07-07 01:12 G 12892554.42 12892554.55 12892554.68 0.0508 0.0350

Mars 30586-08-15 07:55 G 12892593.72 12892593.83 12892593.95 0.1794 0.0599

Jupiter 30586-10-05 07:41 G 12892644.73 12892644.82 12892644.91 0.0511 0.0433

Venus 30587-08-04 18:43 G 12892948.16 12892948.28 12892948.39 0.3681 0.0400

Moon 30589-04-06 01:55 G 12893558.47 12893558.58 12893558.69 0.2660 0.0462

Earth 30589-04-06 02:38 G 12893558.50 12893558.61 12893558.72 0.2661 0.0343 *

Jupiter 30592-02-25 20:24 G 12894614.23 12894614.35 12894614.47 0.0519 0.0168

Jupiter 30592-05-25 03:07 G 12894703.56 12894703.63 12894703.70 0.0516 0.0427

Venus 30593-02-17 12:43 G 12894971.95 12894972.03 12894972.12 0.3680 0.2323

Mars 30596-01-05 16:19 G 12896024.14 12896024.18 12896024.23 0.1802 0.1646

Jupiter 30598-07-24 06:43 G 12896954.63 12896954.78 12896954.93 0.0510 0.0253

Saturn 30598-10-22 00:43 G 12897044.37 12897044.53 12897044.69 0.0297 0.0135

Saturn 30599-01-18 23:45 G 12897133.32 12897133.49 12897133.66 0.0297 0.0050

Saturn 30599-04-17 22:19 G 12897222.32 12897222.43 12897222.54 0.0298 0.0231

Moon 30599-10-05 07:41 G 12897392.68 12897392.82 12897392.95 0.2675 0.1157

Earth 30599-10-05 08:38 G 12897392.72 12897392.86 12897393.01 0.2670 0.1000 *

Moon 30602-04-09 19:55 G 12898309.23 12898309.33 12898309.43 0.2665 0.1017

Earth 30602-04-09 20:38 G 12898309.26 12898309.36 12898309.46 0.2661 0.1050 *

Jupiter 30603-12-15 23:45 G 12898924.39 12898924.49 12898924.59 0.0519 0.0327

Jupiter 30604-03-14 06:29 G 12899013.65 12899013.77 12899013.88 0.0516 0.0266

Neptune 30606-08-10 05:17 G 12899892.69 12899892.72 12899892.78 0.0088 0.0084

Neptune 30606-11-06 06:43 G 12899980.73 12899980.78 12899980.86 0.0088 0.0077

Neptune 30607-02-02 08:09 G 12900068.77 12900068.84 12900068.94 0.0088 0.0069

Neptune 30607-05-01 09:50 G 12900156.82 12900156.91 12900157.01 0.0088 0.0062

Mars 30607-05-04 15:50 G 12900160.11 12900160.16 12900160.20 0.1778 0.1650

Neptune 30607-07-28 11:17 G 12900244.87 12900244.97 12900245.08 0.0088 0.0055

Neptune 30607-10-24 12:43 G 12900332.92 12900333.03 12900333.15 0.0088 0.0048

Neptune 30608-01-20 14:09 G 12900420.97 12900421.09 12900421.22 0.0088 0.0040

Neptune 30608-04-17 15:36 G 12900509.03 12900509.15 12900509.28 0.0088 0.0033

Neptune 30608-07-14 17:02 G 12900597.08 12900597.21 12900597.35 0.0088 0.0026

Neptune 30608-10-10 18:43 G 12900685.14 12900685.28 12900685.41 0.0088 0.0019

Neptune 30609-01-06 20:09 G 12900773.20 12900773.34 12900773.48 0.0088 0.0012

Neptune 30609-04-04 21:36 G 12900861.26 12900861.40 12900861.54 0.0088 0.0004

Neptune 30609-07-01 23:02 G 12900949.32 12900949.46 12900949.60 0.0088 0.0003

Neptune 30609-09-28 00:29 G 12901037.39 12901037.52 12901037.66 0.0088 0.0011

Neptune 30609-12-25 01:55 G 12901125.45 12901125.58 12901125.72 0.0088 0.0018

Neptune 30610-03-23 03:21 G 12901213.51 12901213.64 12901213.78 0.0088 0.0025

Jupiter 30610-05-13 05:17 G 12901264.55 12901264.72 12901264.90 0.0509 0.0068

Neptune 30610-06-19 05:02 G 12901301.58 12901301.71 12901301.84 0.0088 0.0032

Neptune 30610-09-15 06:29 G 12901389.65 12901389.77 12901389.90 0.0088 0.0040

Neptune 30610-12-12 07:55 G 12901477.72 12901477.83 12901477.95 0.0088 0.0047

Neptune 30611-03-10 09:21 G 12901565.79 12901565.89 12901566.01 0.0088 0.0055

Neptune 30611-06-06 10:48 G 12901653.86 12901653.95 12901654.06 0.0088 0.0062

Neptune 30611-09-02 12:29 G 12901741.94 12901742.02 12901742.11 0.0088 0.0069

Neptune 30611-11-29 14:09 G 12901830.02 12901830.09 12901830.16 0.0088 0.0077

Neptune 30612-02-25 15:21 G 12901918.11 12901918.14 12901918.19 0.0088 0.0085

Saturn 30612-08-18 07:12 G 12902092.76 12902092.80 12902092.84 0.0264 0.0250

Moon 30612-10-08 14:24 G 12902143.99 12902144.10 12902144.22 0.2677 0.1731

Earth 30612-10-08 14:24 G 12902143.99 12902144.10 12902144.22 0.2670 0.1756 *

Saturn 30612-11-14 17:45 G 12902181.13 12902181.24 12902181.35 0.0264 0.0153

Saturn 30613-02-11 04:19 G 12902269.55 12902269.68 12902269.82 0.0264 0.0055

Saturn 30613-05-10 15:07 G 12902357.99 12902358.13 12902358.26 0.0263 0.0044

Saturn 30613-08-07 01:55 G 12902446.46 12902446.58 12902446.70 0.0263 0.0144

Saturn 30613-11-03 12:43 G 12902534.99 12902535.03 12902535.09 0.0263 0.0245

Moon 30615-04-12 14:38 G 12903060.06 12903060.11 12903060.15 0.2668 0.2408

Earth 30615-04-12 14:38 G 12903060.07 12903060.11 12903060.15 0.2661 0.2463 *

Jupiter 30615-10-04 03:50 G 12903234.61 12903234.66 12903234.71 0.0520 0.0473

Mars 30615-12-01 02:24 G 12903292.46 12903292.60 12903292.74 0.1752 0.0695

Jupiter 30616-01-01 10:19 G 12903323.80 12903323.93 12903324.06 0.0517 0.0118

Mars 30616-09-23 23:45 G 12903590.38 12903590.49 12903590.61 0.1786 0.0599

Uranus 30618-08-26 14:09 G 12904292.06 12904292.09 12904292.12 0.0144 0.0139

Uranus 30618-11-22 18:00 G 12904380.18 12904380.25 12904380.34 0.0144 0.0118

Uranus 30619-02-18 22:19 G 12904468.32 12904468.43 12904468.53 0.0144 0.0097

Uranus 30619-05-18 02:09 G 12904556.48 12904556.59 12904556.71 0.0144 0.0075

Uranus 30619-08-14 06:14 G 12904644.64 12904644.76 12904644.89 0.0144 0.0054

Uranus 30619-11-10 10:19 G 12904732.80 12904732.93 12904733.07 0.0144 0.0032

Uranus 30620-02-06 14:38 G 12904820.97 12904821.11 12904821.25 0.0145 0.0009

Uranus 30620-05-04 18:43 G 12904909.14 12904909.28 12904909.42 0.0145 0.0013

Uranus 30620-07-31 23:02 G 12904997.32 12904997.46 12904997.59 0.0145 0.0036

Uranus 30620-10-28 03:07 G 12905085.50 12905085.63 12905085.76 0.0145 0.0058

Uranus 30621-01-24 07:26 G 12905173.69 12905173.81 12905173.93 0.0145 0.0081

Uranus 30621-04-22 11:31 G 12905261.89 12905261.98 12905262.09 0.0145 0.0104

Uranus 30621-07-19 15:50 G 12905350.10 12905350.16 12905350.24 0.0145 0.0127

Jupiter 30622-03-01 02:53 G 12905574.45 12905574.62 12905574.79 0.0508 0.0131

Moon 30622-04-05 13:12 G 12905609.96 12905610.05 12905610.14 0.2656 0.1460

Earth 30622-04-05 13:41 G 12905609.98 12905610.07 12905610.16 0.2661 0.1423 *

Mars 30625-04-22 04:33 G 12906722.55 12906722.69 12906722.83 0.1744 0.0679

Mars 30626-02-14 08:09 G 12907020.72 12907020.84 12907020.96 0.1794 0.0459

Jupiter 30627-10-20 14:38 G 12907633.98 12907634.11 12907634.24 0.0518 0.0025

Saturn 30628-03-10 22:48 G 12907776.32 12907776.45 12907776.58 0.0297 0.0195

Saturn 30628-06-07 22:05 G 12907865.24 12907865.42 12907865.59 0.0298 0.0010

Saturn 30628-09-04 20:38 G 12907954.22 12907954.36 12907954.50 0.0298 0.0174

Venus 30633-02-10 04:48 G 12909573.63 12909573.70 12909573.77 0.3682 0.2742

Jupiter 30633-12-18 00:43 G 12909884.39 12909884.53 12909884.66 0.0508 0.0327

Jupiter 30634-03-18 07:12 G 12909974.72 12909974.80 12909974.88 0.0510 0.0454

Moon 30635-04-08 06:43 G 12910360.67 12910360.78 12910360.90 0.2662 0.0189

Earth 30635-04-08 07:26 G 12910360.70 12910360.81 12910360.93 0.2661 0.0111 *

Mars 30635-07-07 16:19 G 12910451.12 12910451.18 12910451.24 0.1802 0.1519

Venus 30637-02-11 23:17 G 12911036.34 12911036.47 12911036.60 0.3690 0.0937

Venus 30638-08-26 22:33 G 12911597.33 12911597.44 12911597.55 0.3681 0.0889

Jupiter 30639-08-08 19:12 G 12911944.17 12911944.30 12911944.42 0.0519 0.0163

Jupiter 30639-11-06 01:55 G 12912033.51 12912033.58 12912033.65 0.0516 0.0434

Saturn 30642-04-03 19:41 G 12912913.22 12912913.32 12912913.41 0.0264 0.0187

Saturn 30642-07-01 06:14 G 12913001.63 12913001.76 12913001.88 0.0263 0.0090

Venus 30642-08-28 23:17 G 12913060.36 12913060.47 12913060.57 0.3691 0.2047

Saturn 30642-09-27 16:48 G 12913090.06 12913090.20 12913090.34 0.0263 0.0009

Saturn 30642-12-25 03:36 G 12913178.52 12913178.65 12913178.78 0.0263 0.0108

Saturn 30643-03-23 14:24 G 12913267.02 12913267.10 12913267.19 0.0263 0.0208

Pluto 30643-12-02 10:19 G 12913520.91 12913520.93 12913520.97 0.0069 0.0067

Pluto 30644-02-28 11:02 G 12913608.89 12913608.96 12913609.04 0.0070 0.0057

Venus 30644-03-11 16:48 G 12913621.09 12913621.20 12913621.30 0.3680 0.1043

Pluto 30644-05-26 11:17 G 12913696.89 12913696.97 12913697.08 0.0070 0.0048

Pluto 30644-08-22 12:00 G 12913784.90 12913785.00 12913785.12 0.0070 0.0038

Pluto 30644-11-18 12:29 G 12913872.91 12913873.02 12913873.15 0.0070 0.0028

Pluto 30645-02-14 13:12 G 12913960.93 12913961.05 12913961.18 0.0070 0.0018

Pluto 30645-05-13 13:55 G 12914048.95 12914049.08 12914049.21 0.0070 0.0008

Pluto 30645-08-09 14:24 G 12914136.97 12914137.10 12914137.23 0.0070 0.0002

Moon 30645-10-06 14:24 G 12914194.95 12914195.10 12914195.25 0.2676 0.0506

Earth 30645-10-06 15:07 G 12914194.98 12914195.13 12914195.28 0.2670 0.0463 *

Pluto 30645-11-05 14:53 G 12914225.00 12914225.12 12914225.25 0.0070 0.0012

Jupiter 30646-01-04 05:17 G 12914284.57 12914284.72 12914284.87 0.0510 0.0263

Pluto 30646-02-01 15:21 G 12914313.02 12914313.14 12914313.27 0.0070 0.0023

Pluto 30646-04-30 16:05 G 12914401.06 12914401.17 12914401.29 0.0071 0.0033

Pluto 30646-07-27 16:33 G 12914489.09 12914489.19 12914489.30 0.0071 0.0043

Pluto 30646-10-23 17:17 G 12914577.14 12914577.22 12914577.31 0.0071 0.0053

Pluto 30647-01-19 17:31 G 12914665.19 12914665.23 12914665.30 0.0071 0.0064

Moon 30648-04-10 00:57 G 12915111.44 12915111.54 12915111.64 0.2665 0.1226

Earth 30648-04-10 01:26 G 12915111.46 12915111.56 12915111.66 0.2661 0.1337 *

Venus 30649-09-25 11:02 G 12915644.89 12915644.96 12915645.02 0.3680 0.3018

Jupiter 30651-05-27 23:31 G 12916254.38 12916254.48 12916254.59 0.0519 0.0303

Jupiter 30651-08-25 06:14 G 12916343.65 12916343.76 12916343.87 0.0516 0.0291

Moon 30655-04-04 00:29 G 12917661.48 12917661.52 12917661.56 0.2654 0.2453

Earth 30655-04-04 00:43 G 12917661.50 12917661.53 12917661.57 0.2661 0.2494 *

Mars 30655-06-01 02:38 G 12917719.48 12917719.61 12917719.75 0.1752 0.0858

Mars 30656-03-25 00:00 G 12918017.39 12918017.50 12918017.61 0.1786 0.0742

Saturn 30657-07-28 18:00 G 12918508.19 12918508.25 12918508.31 0.0297 0.0275

Jupiter 30657-10-23 04:19 G 12918594.50 12918594.68 12918594.85 0.0509 0.0082

Saturn 30657-10-25 17:17 G 12918597.06 12918597.22 12918597.39 0.0297 0.0088

Saturn 30658-01-22 16:19 G 12918686.01 12918686.18 12918686.34 0.0298 0.0097

Saturn 30658-04-21 14:38 G 12918775.06 12918775.11 12918775.17 0.0298 0.0278

Earth 30658-10-09 20:53 G 12918946.29 12918946.37 12918946.45 0.2670 0.2280

Moon 30658-10-09 20:53 G 12918946.30 12918946.37 12918946.45 0.2677 0.2314 *

Uranus 30659-12-25 12:14 G 12919387.98 12919388.01 12919388.06 0.0134 0.0130

Uranus 30660-03-22 18:14 G 12919476.17 12919476.26 12919476.38 0.0134 0.0107

Uranus 30660-06-19 00:29 G 12919564.39 12919564.52 12919564.67 0.0134 0.0084

Uranus 30660-09-15 06:43 G 12919652.63 12919652.78 12919652.95 0.0134 0.0061

Uranus 30660-12-12 12:57 G 12919740.87 12919741.04 12919741.21 0.0134 0.0038

Uranus 30661-03-10 18:57 G 12919829.11 12919829.29 12919829.47 0.0134 0.0016

Uranus 30661-06-07 00:57 G 12919917.36 12919917.54 12919917.72 0.0134 0.0007

Uranus 30661-09-03 06:57 G 12920005.61 12920005.79 12920005.96 0.0134 0.0029

Uranus 30661-11-30 12:43 G 12920093.87 12920094.03 12920094.19 0.0134 0.0051

Uranus 30662-02-26 18:29 G 12920182.13 12920182.27 12920182.42 0.0134 0.0073

Uranus 30662-05-26 00:14 G 12920270.39 12920270.51 12920270.64 0.0134 0.0094

Uranus 30662-08-22 06:00 G 12920358.67 12920358.75 12920358.84 0.0134 0.0116

Jupiter 30663-03-16 03:07 G 12920564.57 12920564.63 12920564.69 0.0520 0.0460

Jupiter 30663-06-13 09:21 G 12920653.77 12920653.89 12920654.02 0.0517 0.0132

Mars 30664-10-21 05:17 G 12921149.57 12921149.72 12921149.86 0.1744 0.0492

Mars 30665-08-15 08:09 G 12921447.72 12921447.84 12921447.96 0.1794 0.0317

Moon 30668-04-05 18:00 G 12922412.15 12922412.25 12922412.35 0.2657 0.1255

Earth 30668-04-05 18:29 G 12922412.17 12922412.27 12922412.37 0.2661 0.1141 *

Jupiter 30669-08-11 02:38 G 12922904.44 12922904.61 12922904.79 0.0509 0.0105

Saturn 30671-08-21 21:50 G 12923645.34 12923645.41 12923645.50 0.0264 0.0218

Saturn 30671-11-18 08:38 G 12923733.74 12923733.86 12923733.98 0.0264 0.0119

Saturn 30672-02-14 19:12 G 12923822.16 12923822.30 12923822.44 0.0264 0.0021

Saturn 30672-05-13 06:00 G 12923910.62 12923910.75 12923910.88 0.0263 0.0078

Saturn 30672-08-09 16:48 G 12923999.10 12923999.20 12923999.30 0.0263 0.0179

Mars 30675-01-05 16:19 G 12924878.11 12924878.18 12924878.26 0.1802 0.1383

Jupiter 30675-04-01 13:26 G 12924963.93 12924964.06 12924964.19 0.0518 0.0017

Moon 30681-04-08 11:45 G 12927162.87 12927162.99 12927163.10 0.2663 0.0187

Earth 30681-04-08 12:29 G 12927162.91 12927163.02 12927163.13 0.2661 0.0250 *

Jupiter 30681-05-30 00:14 G 12927214.36 12927214.51 12927214.65 0.0508 0.0304

Jupiter 30681-08-28 06:43 G 12927304.72 12927304.78 12927304.84 0.0510 0.0477

Jupiter 30687-01-18 17:45 G 12929274.11 12929274.24 12929274.36 0.0519 0.0161

Saturn 30687-03-14 15:50 G 12929329.01 12929329.16 12929329.31 0.0297 0.0145

Jupiter 30687-04-18 00:29 G 12929363.45 12929363.52 12929363.59 0.0516 0.0436

Saturn 30687-06-11 14:53 G 12929417.95 12929418.12 12929418.30 0.0298 0.0041

Saturn 30687-09-08 13:26 G 12929506.95 12929507.06 12929507.18 0.0298 0.0224

Venus 30688-03-04 22:33 G 12929685.36 12929685.44 12929685.51 0.3689 0.3045

Venus 30689-09-17 02:53 G 12930246.53 12930246.62 12930246.71 0.3681 0.2108

Neptune 30690-07-25 22:19 G 12930558.40 12930558.43 12930558.48 0.0089 0.0086

Neptune 30690-10-22 01:41 G 12930646.48 12930646.57 12930646.67 0.0089 0.0076

Neptune 30691-01-18 04:48 G 12930734.59 12930734.70 12930734.83 0.0089 0.0066

Neptune 30691-04-16 08:09 G 12930822.70 12930822.84 12930822.98 0.0089 0.0056

Neptune 30691-07-13 11:17 G 12930910.82 12930910.97 12930911.13 0.0089 0.0046

Moon 30691-10-07 21:07 G 12930997.23 12930997.38 12930997.53 0.2677 0.0086

Earth 30691-10-07 21:36 G 12930997.25 12930997.40 12930997.56 0.2670 0.0106 *

Neptune 30691-10-09 14:38 G 12930998.94 12930999.11 12930999.28 0.0089 0.0036

Neptune 30692-01-05 17:45 G 12931087.06 12931087.24 12931087.41 0.0089 0.0026

Neptune 30692-04-02 20:38 G 12931175.19 12931175.36 12931175.55 0.0089 0.0017

Neptune 30692-06-30 00:00 G 12931263.32 12931263.50 12931263.68 0.0089 0.0007

Neptune 30692-09-26 03:07 G 12931351.45 12931351.63 12931351.81 0.0089 0.0003

Neptune 30692-12-23 06:14 G 12931439.58 12931439.76 12931439.94 0.0089 0.0013

Jupiter 30693-03-17 21:36 G 12931524.38 12931524.40 12931524.43 0.0507 0.0501

Neptune 30693-03-21 09:07 G 12931527.72 12931527.88 12931528.07 0.0089 0.0023

Jupiter 30693-06-16 04:48 G 12931614.55 12931614.70 12931614.84 0.0510 0.0285

Neptune 30693-06-17 12:29 G 12931615.85 12931616.02 12931616.19 0.0089 0.0032

Neptune 30693-09-13 15:21 G 12931703.99 12931704.14 12931704.31 0.0089 0.0042

Venus 30693-09-18 23:02 G 12931709.32 12931709.46 12931709.59 0.3690 0.0146

Neptune 30693-12-10 18:14 G 12931792.13 12931792.26 12931792.42 0.0089 0.0052

Neptune 30694-03-08 21:36 G 12931880.28 12931880.40 12931880.53 0.0089 0.0061

Moon 30694-04-11 06:00 G 12931913.66 12931913.75 12931913.83 0.2666 0.1594

Earth 30694-04-11 06:14 G 12931913.68 12931913.76 12931913.85 0.2661 0.1632 *

Neptune 30694-06-05 00:29 G 12931968.43 12931968.52 12931968.64 0.0089 0.0071

Neptune 30694-09-01 03:21 G 12932056.58 12932056.64 12932056.73 0.0089 0.0081

Mars 30694-11-30 03:21 G 12932146.52 12932146.64 12932146.76 0.1752 0.1054

Venus 30695-04-02 20:38 G 12932270.25 12932270.36 12932270.48 0.3681 0.0261

Mars 30695-09-24 00:00 G 12932444.39 12932444.50 12932444.61 0.1785 0.0875

Jupiter 30698-11-06 22:05 G 12933584.32 12933584.42 12933584.53 0.0520 0.0299

Jupiter 30699-02-04 04:48 G 12933673.59 12933673.70 12933673.81 0.0517 0.0296

Venus 30699-04-04 22:48 G 12933733.38 12933733.45 12933733.52 0.3691 0.3028

Venus 30700-10-17 14:53 G 12934294.02 12934294.12 12934294.22 0.3680 0.1717

Saturn 30701-01-09 00:00 G 12934377.47 12934377.50 12934377.55 0.0264 0.0249

Moon 30701-04-05 05:17 G 12934463.67 12934463.72 12934463.78 0.2654 0.2301

Earth 30701-04-05 05:31 G 12934463.67 12934463.73 12934463.79 0.2661 0.2214 *

Saturn 30701-04-07 10:33 G 12934465.83 12934465.94 12934466.05 0.0264 0.0152

Saturn 30701-07-04 21:07 G 12934554.25 12934554.38 12934554.52 0.0263 0.0055

Saturn 30701-10-01 07:55 G 12934642.69 12934642.83 12934642.97 0.0263 0.0045

Saturn 30701-12-28 18:43 G 12934731.17 12934731.28 12934731.40 0.0263 0.0144

Saturn 30702-03-27 05:45 G 12934819.69 12934819.74 12934819.79 0.0262 0.0245

Uranus 30702-09-16 21:07 G 12934993.34 12934993.38 12934993.43 0.0144 0.0135

Uranus 30702-12-14 00:57 G 12935081.47 12935081.54 12935081.63 0.0144 0.0115

Uranus 30703-03-12 05:02 G 12935169.61 12935169.71 12935169.82 0.0144 0.0093

Uranus 30703-06-08 09:07 G 12935257.76 12935257.88 12935258.00 0.0144 0.0071

Uranus 30703-09-04 13:12 G 12935345.92 12935346.05 12935346.19 0.0144 0.0050

Uranus 30703-12-01 17:31 G 12935434.09 12935434.23 12935434.36 0.0145 0.0028

Uranus 30704-02-27 21:36 G 12935522.26 12935522.40 12935522.54 0.0145 0.0005

Mars 30704-04-22 05:45 G 12935576.59 12935576.74 12935576.89 0.1744 0.0314

Uranus 30704-05-26 01:41 G 12935610.43 12935610.57 12935610.71 0.0145 0.0017

Uranus 30704-08-22 05:45 G 12935698.61 12935698.74 12935698.88 0.0145 0.0040

Uranus 30704-11-18 10:05 G 12935786.80 12935786.92 12935787.05 0.0145 0.0062

Mars 30705-02-14 08:09 G 12935874.72 12935874.84 12935874.96 0.1794 0.0185

Uranus 30705-02-14 14:24 G 12935874.99 12935875.10 12935875.22 0.0145 0.0085

Jupiter 30705-04-05 02:38 G 12935924.44 12935924.61 12935924.79 0.0509 0.0091

Uranus 30705-05-13 18:29 G 12935963.19 12935963.27 12935963.37 0.0145 0.0108

Uranus 30705-08-09 22:48 G 12936051.40 12936051.45 12936051.52 0.0145 0.0131

Jupiter 30710-08-27 02:38 G 12937894.54 12937894.61 12937894.68 0.0520 0.0438

Jupiter 30710-11-24 09:07 G 12937983.75 12937983.88 12937984.00 0.0517 0.0154

Mars 30713-09-12 07:41 G 12939006.79 12939006.82 12939006.86 0.1736 0.1679

Moon 30714-04-07 22:48 G 12939214.34 12939214.45 12939214.55 0.2659 0.0893

Earth 30714-04-07 23:17 G 12939214.37 12939214.47 12939214.58 0.2661 0.0862 *

Mars 30714-07-07 16:33 G 12939305.10 12939305.19 12939305.28 0.1802 0.1232

Saturn 30716-08-01 11:02 G 12940060.85 12940060.96 12940061.08 0.0297 0.0224

Saturn 30716-10-29 10:19 G 12940149.76 12940149.93 12940150.10 0.0297 0.0037

Jupiter 30717-01-22 01:26 G 12940234.38 12940234.56 12940234.73 0.0509 0.0093

Saturn 30717-01-26 09:07 G 12940238.73 12940238.88 12940239.03 0.0298 0.0147

Jupiter 30722-09-12 12:29 G 12942293.89 12942294.02 12942294.15 0.0518 0.0006

Moon 30724-10-05 20:53 G 12943048.31 12943048.37 12943048.42 0.2674 0.2467

Earth 30724-10-05 22:05 G 12943048.33 12943048.42 12943048.51 0.2671 0.2195 *

Moon 30727-04-10 16:33 G 12943965.08 12943965.19 12943965.30 0.2663 0.0393

Earth 30727-04-10 17:17 G 12943965.11 12943965.22 12943965.33 0.2661 0.0526 *

Jupiter 30728-11-09 23:45 G 12944544.34 12944544.49 12944544.63 0.0508 0.0281

Jupiter 30729-02-08 06:14 G 12944634.73 12944634.76 12944634.79 0.0511 0.0501

Pluto 30730-01-09 20:24 G 12944970.25 12944970.35 12944970.49 0.0074 0.0060

Pluto 30730-04-07 23:02 G 12945058.31 12945058.46 12945058.64 0.0074 0.0041

Pluto 30730-07-05 01:41 G 12945146.40 12945146.57 12945146.78 0.0074 0.0024

Saturn 30730-08-25 12:57 G 12945197.95 12945198.04 12945198.15 0.0264 0.0183

Pluto 30730-10-01 04:33 G 12945234.50 12945234.69 12945234.89 0.0074 0.0005

Saturn 30730-11-21 23:45 G 12945286.36 12945286.49 12945286.62 0.0264 0.0084

Pluto 30730-12-28 07:12 G 12945322.61 12945322.80 12945323.00 0.0074 0.0013

Saturn 30731-02-18 10:19 G 12945374.80 12945374.93 12945375.07 0.0264 0.0017

Pluto 30731-03-26 09:36 G 12945410.73 12945410.90 12945411.09 0.0074 0.0031

Saturn 30731-05-17 21:07 G 12945463.26 12945463.38 12945463.51 0.0263 0.0115

Pluto 30731-06-22 12:00 G 12945498.87 12945499.00 12945499.17 0.0074 0.0049

Saturn 30731-08-14 07:55 G 12945551.76 12945551.83 12945551.92 0.0263 0.0216

Pluto 30731-09-18 14:24 G 12945587.04 12945587.10 12945587.21 0.0074 0.0067

Mars 30734-06-01 03:50 G 12946573.56 12946573.66 12946573.77 0.1753 0.1238

Jupiter 30734-07-01 16:33 G 12946604.06 12946604.19 12946604.31 0.0518 0.0154

Jupiter 30734-09-28 23:17 G 12946693.40 12946693.47 12946693.53 0.0516 0.0442

Mars 30735-03-26 00:00 G 12946871.40 12946871.50 12946871.60 0.1785 0.1013

Moon 30737-10-09 03:36 G 12947799.50 12947799.65 12947799.80 0.2677 0.0653

Earth 30737-10-09 04:05 G 12947799.52 12947799.67 12947799.82 0.2670 0.0609 *

Moon 30740-04-12 10:48 G 12948715.88 12948715.95 12948716.03 0.2668 0.1907

Earth 30740-04-12 11:02 G 12948715.89 12948715.96 12948716.04 0.2661 0.1926 *

Jupiter 30740-08-28 20:53 G 12948854.32 12948854.37 12948854.43 0.0507 0.0482

Venus 30740-10-09 07:12 G 12948895.75 12948895.80 12948895.84 0.3682 0.3297

Jupiter 30740-11-27 03:50 G 12948944.53 12948944.66 12948944.81 0.0510 0.0305

Mars 30743-10-22 06:14 G 12950003.61 12950003.76 12950003.91 0.1744 0.0127

Uranus 30744-01-15 18:57 G 12950089.24 12950089.29 12950089.36 0.0134 0.0125

Uranus 30744-04-13 01:12 G 12950177.44 12950177.55 12950177.67 0.0134 0.0102

Uranus 30744-07-10 07:26 G 12950265.67 12950265.81 12950265.96 0.0134 0.0079

Mars 30744-08-15 08:24 G 12950301.72 12950301.85 12950301.97 0.1793 0.0061

Uranus 30744-10-06 13:41 G 12950353.90 12950354.07 12950354.23 0.0134 0.0056

Venus 30744-10-10 22:19 G 12950358.32 12950358.43 12950358.55 0.3689 0.1985

Uranus 30745-01-02 19:26 G 12950442.15 12950442.31 12950442.49 0.0134 0.0034

Uranus 30745-04-01 01:41 G 12950530.39 12950530.57 12950530.75 0.0134 0.0011

Uranus 30745-06-28 07:41 G 12950618.64 12950618.82 12950619.00 0.0134 0.0011

Uranus 30745-09-24 13:26 G 12950706.89 12950707.06 12950707.24 0.0134 0.0034

Saturn 30745-12-19 09:50 G 12950792.85 12950792.91 12950792.97 0.0297 0.0278

Uranus 30745-12-21 19:12 G 12950795.15 12950795.30 12950795.47 0.0134 0.0056

Saturn 30746-03-18 09:21 G 12950881.72 12950881.89 12950882.06 0.0298 0.0090

Uranus 30746-03-20 00:57 G 12950883.41 12950883.54 12950883.69 0.0134 0.0078

Jupiter 30746-04-19 20:38 G 12950914.26 12950914.36 12950914.47 0.0519 0.0298

Venus 30746-04-25 00:57 G 12950919.43 12950919.54 12950919.64 0.3681 0.1458

Saturn 30746-06-15 08:09 G 12950970.68 12950970.84 12950971.01 0.0298 0.0096

Uranus 30746-06-16 06:57 G 12950971.68 12950971.79 12950971.91 0.0133 0.0099

Jupiter 30746-07-18 03:21 G 12951003.53 12951003.64 12951003.74 0.0517 0.0297

Saturn 30746-09-12 06:43 G 12951059.72 12951059.78 12951059.85 0.0298 0.0277

Uranus 30746-09-12 12:29 G 12951059.96 12951060.02 12951060.11 0.0133 0.0121

Moon 30747-04-06 10:05 G 12951265.85 12951265.92 12951266.00 0.2654 0.1914

Earth 30747-04-06 10:19 G 12951265.86 12951265.93 12951266.01 0.2661 0.1939 *

Venus 30750-04-26 22:33 G 12952382.32 12952382.44 12952382.57 0.3690 0.1091

Venus 30751-11-08 18:57 G 12952943.17 12952943.29 12952943.40 0.3680 0.0461

Jupiter 30752-09-15 01:55 G 12953254.41 12953254.58 12953254.75 0.0509 0.0110

Mars 30753-03-13 08:24 G 12953433.77 12953433.85 12953433.93 0.1736 0.1481

Mars 30754-01-05 16:33 G 12953732.09 12953732.19 12953732.28 0.1802 0.1110

Venus 30757-05-24 12:57 G 12954966.96 12954967.04 12954967.13 0.3680 0.2411

Jupiter 30758-02-06 01:12 G 12955224.48 12955224.55 12955224.62 0.0520 0.0437

Jupiter 30758-05-06 07:41 G 12955313.69 12955313.82 12955313.94 0.0517 0.0156

Saturn 30760-01-12 15:21 G 12955930.07 12955930.14 12955930.23 0.0264 0.0212

Moon 30760-04-08 03:21 G 12956016.54 12956016.64 12956016.75 0.2660 0.0747

Earth 30760-04-08 04:05 G 12956016.57 12956016.67 12956016.78 0.2661 0.0582 *

Saturn 30760-04-10 01:55 G 12956018.46 12956018.58 12956018.71 0.0264 0.0115

Saturn 30760-07-07 12:43 G 12956106.89 12956107.03 12956107.17 0.0263 0.0017

Saturn 30760-10-03 23:17 G 12956195.34 12956195.47 12956195.61 0.0263 0.0084

Saturn 30760-12-31 10:19 G 12956283.83 12956283.93 12956284.03 0.0263 0.0184

Jupiter 30764-07-03 23:45 G 12957564.31 12957564.49 12957564.66 0.0508 0.0088

Jupiter 30770-02-22 12:00 G 12959623.87 12959624.00 12959624.13 0.0518 0.0018

Moon 30770-10-07 03:36 G 12959850.53 12959850.65 12959850.77 0.2676 0.1700

Earth 30770-10-07 04:33 G 12959850.57 12959850.69 12959850.81 0.2671 0.1643 *

Neptune 30771-02-09 03:50 G 12959975.65 12959975.66 12959975.70 0.0088 0.0087

Neptune 30771-05-08 05:17 G 12960063.68 12960063.72 12960063.79 0.0088 0.0080

Neptune 30771-08-04 06:43 G 12960151.72 12960151.78 12960151.87 0.0088 0.0072

Neptune 30771-10-31 08:24 G 12960239.76 12960239.85 12960239.95 0.0088 0.0065

Neptune 30772-01-27 09:50 G 12960327.81 12960327.91 12960328.02 0.0088 0.0058

Neptune 30772-04-24 11:17 G 12960415.86 12960415.97 12960416.08 0.0088 0.0051

Neptune 30772-07-21 12:43 G 12960503.91 12960504.03 12960504.15 0.0088 0.0043

Neptune 30772-10-17 14:09 G 12960591.97 12960592.09 12960592.22 0.0088 0.0036

Neptune 30773-01-13 15:36 G 12960680.02 12960680.15 12960680.28 0.0088 0.0029

Moon 30773-04-10 21:21 G 12960767.29 12960767.39 12960767.50 0.2663 0.0766

Earth 30773-04-10 22:05 G 12960767.31 12960767.42 12960767.52 0.2661 0.0810 *

Neptune 30773-04-11 17:02 G 12960768.08 12960768.21 12960768.35 0.0088 0.0022

Neptune 30773-07-08 18:29 G 12960856.14 12960856.27 12960856.41 0.0088 0.0015

Neptune 30773-10-04 20:09 G 12960944.20 12960944.34 12960944.47 0.0088 0.0008

Mars 30773-11-30 04:05 G 12961000.59 12961000.67 12961000.76 0.1753 0.1409

Neptune 30773-12-31 21:36 G 12961032.26 12961032.40 12961032.54 0.0088 0.0001

Neptune 30774-03-29 23:02 G 12961120.32 12961120.46 12961120.60 0.0088 0.0007

Neptune 30774-06-26 00:29 G 12961208.38 12961208.52 12961208.66 0.0088 0.0015

Neptune 30774-09-22 01:55 G 12961296.45 12961296.58 12961296.72 0.0088 0.0022

Mars 30774-09-24 00:14 G 12961298.42 12961298.51 12961298.60 0.1785 0.1166

Neptune 30774-12-19 03:21 G 12961384.51 12961384.64 12961384.78 0.0088 0.0030

Neptune 30775-03-17 05:02 G 12961472.58 12961472.71 12961472.83 0.0088 0.0037

Neptune 30775-06-13 06:14 G 12961560.65 12961560.76 12961560.89 0.0088 0.0044

Saturn 30775-08-05 05:17 G 12961613.58 12961613.72 12961613.87 0.0297 0.0164

Neptune 30775-09-09 07:55 G 12961648.72 12961648.83 12961648.95 0.0088 0.0051

Saturn 30775-11-02 04:33 G 12961702.51 12961702.69 12961702.86 0.0297 0.0023

Neptune 30775-12-06 09:36 G 12961736.79 12961736.90 12961737.00 0.0088 0.0059

Saturn 30776-01-30 03:07 G 12961791.51 12961791.63 12961791.76 0.0298 0.0206

Neptune 30776-03-03 10:48 G 12961824.87 12961824.95 12961825.05 0.0088 0.0066

Jupiter 30776-04-21 22:05 G 12961874.27 12961874.42 12961874.57 0.0508 0.0273

Neptune 30776-05-30 12:29 G 12961912.95 12961913.02 12961913.10 0.0088 0.0074

Jupiter 30776-07-21 04:48 G 12961964.69 12961964.70 12961964.71 0.0511 0.0509

Neptune 30776-08-26 13:41 G 12962001.03 12962001.07 12962001.14 0.0088 0.0082

Jupiter 30781-12-11 15:21 G 12963934.02 12963934.14 12963934.27 0.0518 0.0144

Jupiter 30782-03-10 22:05 G 12964023.36 12964023.42 12964023.49 0.0515 0.0452

Mars 30783-04-22 06:43 G 12964430.63 12964430.78 12964430.93 0.1745 0.0063

Moon 30783-10-10 10:19 G 12964601.79 12964601.93 12964602.07 0.2677 0.1015

Earth 30783-10-10 10:33 G 12964601.80 12964601.94 12964602.08 0.2670 0.1148 *

Mars 30784-02-14 08:24 G 12964728.73 12964728.85 12964728.97 0.1793 0.0099

Moon 30786-04-13 15:50 G 12965518.10 12965518.16 12965518.22 0.2668 0.2164

Earth 30786-04-13 16:05 G 12965518.11 12965518.17 12965518.23 0.2661 0.2214 *

Uranus 30786-10-07 03:36 G 12965694.60 12965694.65 12965694.70 0.0144 0.0133

Uranus 30787-01-03 07:26 G 12965782.74 12965782.81 12965782.91 0.0144 0.0113

Uranus 30787-04-01 11:45 G 12965870.88 12965870.99 12965871.10 0.0144 0.0091

Uranus 30787-06-28 15:36 G 12965959.04 12965959.15 12965959.28 0.0144 0.0069

Uranus 30787-09-24 19:41 G 12966047.20 12966047.32 12966047.46 0.0145 0.0048

Uranus 30787-12-22 00:00 G 12966135.36 12966135.50 12966135.64 0.0145 0.0025

Jupiter 30788-02-08 20:09 G 12966184.27 12966184.34 12966184.41 0.0507 0.0464

Uranus 30788-03-19 04:05 G 12966223.53 12966223.67 12966223.81 0.0145 0.0003

Jupiter 30788-05-09 03:21 G 12966274.50 12966274.64 12966274.77 0.0510 0.0324

Uranus 30788-06-15 08:09 G 12966311.71 12966311.84 12966311.98 0.0145 0.0020

Uranus 30788-09-11 12:29 G 12966399.88 12966400.02 12966400.15 0.0145 0.0042

Uranus 30788-12-08 16:33 G 12966488.07 12966488.19 12966488.32 0.0145 0.0065

Uranus 30789-03-06 20:53 G 12966576.26 12966576.37 12966576.49 0.0145 0.0087

Saturn 30789-05-31 18:00 G 12966662.20 12966662.25 12966662.30 0.0265 0.0243

Uranus 30789-06-03 01:12 G 12966664.46 12966664.55 12966664.64 0.0145 0.0110

Saturn 30789-08-28 04:33 G 12966750.58 12966750.69 12966750.80 0.0264 0.0145

Uranus 30789-08-30 05:31 G 12966752.68 12966752.73 12966752.79 0.0145 0.0133

Saturn 30789-11-24 15:07 G 12966839.00 12966839.13 12966839.27 0.0264 0.0046

Saturn 30790-02-21 01:55 G 12966927.44 12966927.58 12966927.71 0.0264 0.0054

Saturn 30790-05-20 12:43 G 12967015.92 12967016.03 12967016.14 0.0263 0.0154

Saturn 30790-08-16 23:31 G 12967104.46 12967104.48 12967104.52 0.0263 0.0256

Mars 30792-09-11 08:53 G 12967860.77 12967860.87 12967860.97 0.1736 0.1296

Moon 30793-04-06 14:53 G 12968068.04 12968068.12 12968068.20 0.2655 0.1747

Earth 30793-04-06 15:07 G 12968068.05 12968068.13 12968068.22 0.2661 0.1656 *

Mars 30793-07-06 16:33 G 12968159.09 12968159.19 12968159.30 0.1802 0.0964

Jupiter 30793-09-29 19:26 G 12968244.20 12968244.31 12968244.42 0.0519 0.0291

Jupiter 30793-12-28 01:55 G 12968333.48 12968333.58 12968333.69 0.0516 0.0302

Venus 30797-05-16 05:02 G 12969568.64 12969568.71 12969568.79 0.3682 0.2667

Jupiter 30800-02-26 00:57 G 12970584.37 12970584.54 12970584.71 0.0509 0.0125

Venus 30801-05-17 22:19 G 12971031.30 12971031.43 12971031.56 0.3690 0.0936

Venus 30802-11-29 23:02 G 12971592.35 12971592.46 12971592.57 0.3681 0.0805

Saturn 30804-12-22 04:33 G 12972345.57 12972345.69 12972345.82 0.0297 0.0214

Saturn 30805-03-21 03:50 G 12972434.49 12972434.66 12972434.84 0.0298 0.0028

Saturn 30805-06-18 02:38 G 12972523.47 12972523.61 12972523.76 0.0298 0.0157

Jupiter 30805-07-18 23:31 G 12972554.41 12972554.48 12972554.55 0.0520 0.0437

Jupiter 30805-10-16 06:00 G 12972643.62 12972643.75 12972643.88 0.0517 0.0155

Moon 30806-04-09 08:09 G 12972818.73 12972818.84 12972818.95 0.2660 0.0346

Earth 30806-04-09 09:07 G 12972818.77 12972818.88 12972818.99 0.2661 0.0306 *

Venus 30806-12-01 22:19 G 12973055.33 12973055.43 12973055.54 0.3690 0.2094

Venus 30808-06-14 17:02 G 12973616.10 12973616.21 12973616.32 0.3680 0.1123

Jupiter 30811-12-14 22:33 G 12974894.27 12974894.44 12974894.62 0.0508 0.0072

Mars 30813-05-31 04:48 G 12975427.64 12975427.70 12975427.76 0.1753 0.1600

Venus 30813-12-29 11:17 G 12975639.91 12975639.97 12975640.03 0.3680 0.3112

Mars 30814-03-25 00:14 G 12975725.43 12975725.51 12975725.59 0.1785 0.1295

Moon 30816-10-07 10:19 G 12976652.79 12976652.93 12976653.06 0.2677 0.1279

Earth 30816-10-07 11:02 G 12976652.82 12976652.96 12976653.11 0.2671 0.1095 *

Jupiter 30817-08-04 10:19 G 12976953.80 12976953.93 12976954.06 0.0518 0.0014

Saturn 30819-01-15 06:57 G 12977482.70 12977482.79 12977482.90 0.0264 0.0173

Moon 30819-04-12 02:24 G 12977569.49 12977569.60 12977569.70 0.2665 0.0965

Earth 30819-04-12 02:53 G 12977569.52 12977569.62 12977569.72 0.2661 0.1095 *

Saturn 30819-04-13 17:45 G 12977571.11 12977571.24 12977571.37 0.0264 0.0073

Saturn 30819-07-11 04:19 G 12977659.55 12977659.68 12977659.82 0.0263 0.0028

Saturn 30819-10-07 15:07 G 12977748.01 12977748.13 12977748.26 0.0263 0.0126

Saturn 30820-01-04 02:09 G 12977836.52 12977836.59 12977836.66 0.0263 0.0227

Mars 30822-10-21 07:12 G 12978857.65 12978857.80 12978857.95 0.1745 0.0247

Mars 30823-08-15 08:24 G 12979155.73 12979155.85 12979155.97 0.1793 0.0245

Jupiter 30823-10-02 19:55 G 12979204.19 12979204.33 12979204.49 0.0508 0.0273

Jupiter 30824-01-01 02:38 G 12979294.61 12979294.61 12979294.62 0.0511 0.0510

Uranus 30828-02-05 01:26 G 12980790.49 12980790.56 12980790.64 0.0134 0.0121

Uranus 30828-05-03 07:41 G 12980878.71 12980878.82 12980878.95 0.0134 0.0098

Uranus 30828-07-30 13:55 G 12980966.94 12980967.08 12980967.23 0.0134 0.0075

Uranus 30828-10-26 19:55 G 12981055.17 12981055.33 12981055.50 0.0134 0.0053

Uranus 30829-01-23 02:09 G 12981143.42 12981143.59 12981143.76 0.0134 0.0030

Uranus 30829-04-21 08:09 G 12981231.66 12981231.84 12981232.02 0.0134 0.0007

Jupiter 30829-05-23 14:38 G 12981263.98 12981264.11 12981264.24 0.0519 0.0129

Uranus 30829-07-18 14:09 G 12981319.91 12981320.09 12981320.27 0.0134 0.0015

Jupiter 30829-08-20 21:21 G 12981353.34 12981353.39 12981353.44 0.0516 0.0466

Earth 30829-10-10 17:02 G 12981404.09 12981404.21 12981404.33 0.2670 0.1680

Moon 30829-10-10 17:02 G 12981404.10 12981404.21 12981404.32 0.2677 0.1779 *

Uranus 30829-10-14 19:55 G 12981408.17 12981408.33 12981408.51 0.0134 0.0038

Uranus 30830-01-11 01:41 G 12981496.42 12981496.57 12981496.74 0.0134 0.0060

Uranus 30830-04-09 07:26 G 12981584.68 12981584.81 12981584.96 0.0134 0.0082

Uranus 30830-07-06 13:26 G 12981672.95 12981673.06 12981673.17 0.0133 0.0103

Uranus 30830-10-02 18:57 G 12981761.24 12981761.29 12981761.36 0.0133 0.0124

Mars 30832-03-12 09:21 G 12982287.77 12982287.89 12982288.00 0.1737 0.1127

Moon 30832-04-13 20:38 G 12982320.33 12982320.36 12982320.40 0.2668 0.2532

Earth 30832-04-13 20:53 G 12982320.34 12982320.37 12982320.40 0.2661 0.2504 *

Mars 30833-01-04 16:48 G 12982586.09 12982586.20 12982586.31 0.1801 0.0822

Saturn 30834-05-11 00:57 G 12983077.50 12983077.54 12983077.60 0.0296 0.0284

Saturn 30834-08-08 00:29 G 12983166.36 12983166.52 12983166.69 0.0297 0.0096

Saturn 30834-11-04 23:31 G 12983255.32 12983255.48 12983255.65 0.0297 0.0090

Saturn 30835-02-01 21:50 G 12983344.35 12983344.41 12983344.49 0.0298 0.0272

Jupiter 30835-07-21 18:14 G 12983514.19 12983514.26 12983514.33 0.0507 0.0461

Jupiter 30835-10-20 01:26 G 12983604.43 12983604.56 12983604.69 0.0510 0.0326

Moon 30839-04-07 19:26 G 12984870.22 12984870.31 12984870.40 0.2657 0.1428

Earth 30839-04-07 19:55 G 12984870.24 12984870.33 12984870.43 0.2661 0.1378 *

Jupiter 30841-03-11 18:14 G 12985574.15 12985574.26 12985574.37 0.0519 0.0283

Jupiter 30841-06-09 00:43 G 12985663.43 12985663.53 12985663.64 0.0516 0.0309

Jupiter 30847-08-07 23:45 G 12987914.32 12987914.49 12987914.66 0.0510 0.0138

Saturn 30848-06-03 09:36 G 12988214.82 12988214.90 12988214.99 0.0265 0.0202

Saturn 30848-08-30 20:24 G 12988303.22 12988303.35 12988303.47 0.0265 0.0104

Saturn 30848-11-27 06:57 G 12988391.65 12988391.79 12988391.93 0.0264 0.0004

Saturn 30849-02-23 17:45 G 12988480.11 12988480.24 12988480.37 0.0264 0.0097

Saturn 30849-05-23 04:48 G 12988568.61 12988568.70 12988568.79 0.0263 0.0198

Moon 30852-04-09 13:12 G 12989620.94 12989621.05 12989621.16 0.2660 0.0181

Earth 30852-04-09 13:55 G 12989620.96 12989621.08 12989621.19 0.2661 0.0086 *

Venus 30852-06-07 21:36 G 12989680.33 12989680.40 12989680.47 0.3689 0.3049

Jupiter 30852-12-28 22:19 G 12989884.36 12989884.43 12989884.50 0.0519 0.0431

Jupiter 30853-03-28 04:33 G 12989973.57 12989973.69 12989973.82 0.0517 0.0159

Mars 30853-09-23 00:14 G 12990152.44 12990152.51 12990152.59 0.1785 0.1443

Venus 30853-12-21 03:07 G 12990241.54 12990241.63 12990241.73 0.3681 0.2024

Neptune 30855-04-22 21:21 G 12990729.33 12990729.39 12990729.48 0.0089 0.0081

Neptune 30855-07-20 00:43 G 12990817.43 12990817.53 12990817.65 0.0089 0.0071

Neptune 30855-10-16 03:50 G 12990905.54 12990905.66 12990905.81 0.0089 0.0061

Neptune 30856-01-12 07:12 G 12990993.66 12990993.80 12990993.96 0.0089 0.0051

Neptune 30856-04-09 10:19 G 12991081.78 12991081.93 12991082.10 0.0089 0.0041

Neptune 30856-07-06 13:41 G 12991169.90 12991170.07 12991170.25 0.0089 0.0031

Neptune 30856-10-02 16:48 G 12991258.03 12991258.20 12991258.38 0.0089 0.0021

Neptune 30856-12-29 20:09 G 12991346.16 12991346.34 12991346.52 0.0089 0.0011

Neptune 30857-03-27 23:17 G 12991434.29 12991434.47 12991434.65 0.0089 0.0001

Neptune 30857-06-24 02:24 G 12991522.42 12991522.60 12991522.78 0.0089 0.0009

Neptune 30857-09-20 05:31 G 12991610.55 12991610.73 12991610.91 0.0089 0.0018

Neptune 30857-12-17 08:24 G 12991698.69 12991698.85 12991699.03 0.0089 0.0028

Venus 30857-12-22 22:05 G 12991704.29 12991704.42 12991704.55 0.3690 0.0100

Neptune 30858-03-15 11:31 G 12991786.82 12991786.98 12991787.15 0.0089 0.0038

Neptune 30858-06-11 14:24 G 12991874.96 12991875.10 12991875.27 0.0089 0.0048

Neptune 30858-09-07 17:45 G 12991963.11 12991963.24 12991963.38 0.0089 0.0057

Neptune 30858-12-04 20:38 G 12992051.25 12992051.36 12992051.49 0.0089 0.0067

Neptune 30859-03-03 00:00 G 12992139.41 12992139.50 12992139.59 0.0089 0.0076

Jupiter 30859-05-26 21:07 G 12992224.20 12992224.38 12992224.56 0.0509 0.0063

Neptune 30859-05-30 02:38 G 12992227.58 12992227.61 12992227.67 0.0089 0.0086

Venus 30859-07-06 21:07 G 12992265.27 12992265.38 12992265.49 0.3681 0.0140

Mars 30862-04-21 07:41 G 12993284.67 12993284.82 12993284.97 0.1745 0.0426

Moon 30862-10-08 16:48 G 12993455.05 12993455.20 12993455.35 0.2677 0.0613

Earth 30862-10-08 17:45 G 12993455.09 12993455.24 12993455.39 0.2671 0.0545 *

Mars 30863-02-13 08:24 G 12993582.73 12993582.85 12993582.97 0.1793 0.0385

Venus 30863-07-08 22:05 G 12993728.35 12993728.42 12993728.49 0.3691 0.3086

Saturn 30863-12-26 00:43 G 12993898.38 12993898.53 12993898.69 0.0297 0.0139

Saturn 30864-03-24 00:00 G 12993987.32 12993987.50 12993987.67 0.0298 0.0048

Saturn 30864-06-20 22:19 G 12994076.33 12994076.43 12994076.55 0.0298 0.0230

Jupiter 30865-01-14 08:38 G 12994283.72 12994283.86 12994283.99 0.0518 0.0019

Venus 30865-01-19 15:07 G 12994289.03 12994289.13 12994289.23 0.3680 0.1802

Moon 30865-04-12 07:12 G 12994371.71 12994371.80 12994371.90 0.2666 0.1389

Earth 30865-04-12 07:41 G 12994371.73 12994371.82 12994371.92 0.2661 0.1386 *

Uranus 30870-10-27 10:05 G 12996395.87 12996395.92 12996395.98 0.0144 0.0132

Uranus 30871-01-23 14:09 G 12996484.00 12996484.09 12996484.18 0.0144 0.0110

Jupiter 30871-03-14 18:43 G 12996534.12 12996534.28 12996534.43 0.0508 0.0262

Uranus 30871-04-21 18:14 G 12996572.15 12996572.26 12996572.37 0.0144 0.0089

Uranus 30871-07-18 22:05 G 12996660.31 12996660.42 12996660.55 0.0144 0.0068

Mars 30871-09-11 09:50 G 12996714.79 12996714.91 12996715.04 0.1737 0.0928

Uranus 30871-10-15 02:24 G 12996748.47 12996748.60 12996748.73 0.0145 0.0045

Uranus 30872-01-11 06:29 G 12996836.63 12996836.77 12996836.91 0.0145 0.0023

Moon 30872-04-05 06:57 G 12996921.76 12996921.79 12996921.83 0.2654 0.2460

Earth 30872-04-05 07:12 G 12996921.76 12996921.80 12996921.84 0.2660 0.2442 *

Uranus 30872-04-08 10:33 G 12996924.80 12996924.94 12996925.08 0.0145 0.0001

Uranus 30872-07-05 14:38 G 12997012.98 12997013.11 12997013.25 0.0145 0.0022

Mars 30872-07-05 16:48 G 12997013.08 12997013.20 12997013.31 0.1801 0.0693 *

Uranus 30872-10-01 18:57 G 12997101.16 12997101.29 12997101.42 0.0145 0.0044

Uranus 30872-12-28 23:02 G 12997189.34 12997189.46 12997189.59 0.0145 0.0067

Uranus 30873-03-27 03:21 G 12997277.53 12997277.64 12997277.75 0.0145 0.0089

Uranus 30873-06-23 07:41 G 12997365.73 12997365.82 12997365.91 0.0145 0.0112

Uranus 30873-09-19 12:00 G 12997453.95 12997454.00 12997454.05 0.0145 0.0135

Earth 30875-10-11 23:31 G 12998206.39 12998206.48 12998206.56 0.2670 0.2211

Moon 30875-10-12 00:00 G 12998206.41 12998206.50 12998206.58 0.2677 0.2198 *

Jupiter 30876-11-02 12:43 G 12998593.91 12998594.03 12998594.16 0.0519 0.0134

Jupiter 30877-01-30 19:26 G 12998683.26 12998683.31 12998683.37 0.0516 0.0462

Saturn 30877-10-21 12:43 G 12998946.96 12998947.03 12998947.10 0.0265 0.0226

Saturn 30878-01-17 23:17 G 12999035.35 12999035.47 12999035.59 0.0264 0.0128

Saturn 30878-04-16 09:50 G 12999123.78 12999123.91 12999124.05 0.0264 0.0030

Saturn 30878-07-13 20:38 G 12999212.23 12999212.36 12999212.50 0.0263 0.0071

Saturn 30878-10-10 07:26 G 12999300.71 12999300.81 12999300.92 0.0263 0.0172

Mars 30881-11-26 00:57 G 13000443.52 13000443.54 13000443.57 0.1810 0.1754

Jupiter 30882-12-31 15:50 G 13000844.09 13000844.16 13000844.23 0.0507 0.0465

Jupiter 30883-03-31 23:02 G 13000934.32 13000934.46 13000934.59 0.0510 0.0322

Moon 30885-04-08 00:14 G 13001672.41 13001672.51 13001672.61 0.2657 0.1184

Earth 30885-04-08 00:57 G 13001672.44 13001672.54 13001672.64 0.2660 0.1095 *

Jupiter 30888-08-21 17:02 G 13002904.10 13002904.21 13002904.32 0.0519 0.0276

Jupiter 30888-11-18 23:45 G 13002993.38 13002993.49 13002993.59 0.0516 0.0318

Pluto 30890-07-19 23:17 G 13003601.45 13003601.47 13003601.51 0.0069 0.0067

Pluto 30890-10-15 23:31 G 13003689.43 13003689.48 13003689.57 0.0070 0.0058

Pluto 30891-01-12 00:14 G 13003777.43 13003777.51 13003777.62 0.0070 0.0048

Pluto 30891-04-10 00:57 G 13003865.44 13003865.54 13003865.65 0.0070 0.0038

Pluto	30891-07-07 01:26	G	13003953.45	13003953.56	13003953.69	0.0070	0.0028
Pluto	30891-10-03 02:09	G	13004041.46	13004041.59	13004041.72	0.0070	0.0018
Pluto	30891-12-30 02:38	G	13004129.48	13004129.61	13004129.74	0.0070	0.0008
Pluto	30892-03-27 03:21	G	13004217.51	13004217.64	13004217.77	0.0070	0.0003
Pluto	30892-06-23 03:50	G	13004305.53	13004305.66	13004305.79	0.0070	0.0012
Pluto	30892-09-19 04:19	G	13004393.56	13004393.68	13004393.81	0.0070	0.0022
Pluto	30892-12-16 04:48	G	13004481.59	13004481.70	13004481.82	0.0071	0.0033
Pluto	30893-03-14 05:31	G	13004569.63	13004569.73	13004569.84	0.0071	0.0043
Mars	30893-03-24 00:29	G	13004579.47	13004579.52	13004579.57	0.1785	0.1590
Saturn	30893-05-13 21:50	G	13004630.29	13004630.41	13004630.54	0.0296	0.0204
Pluto	30893-06-10 06:00	G	13004657.67	13004657.75	13004657.84	0.0071	0.0053
Saturn	30893-08-10 21:07	G	13004719.21	13004719.38	13004719.56	0.0297	0.0018
Pluto	30893-09-06 06:29	G	13004745.73	13004745.77	13004745.84	0.0071	0.0064
Saturn	30893-11-07 19:55	G	13004808.19	13004808.33	13004808.48	0.0297	0.0167
Jupiter	30895-01-17 21:21	G	13005244.22	13005244.39	13005244.56	0.0509	0.0135
Moon	30898-04-10 18:00	G	13006423.14	13006423.25	13006423.36	0.2662	0.0227
Earth	30898-04-10 18:43	G	13006423.17	13006423.28	13006423.39	0.2661	0.0288 *
Jupiter	30900-06-10 20:53	G	13007214.30	13007214.37	13007214.45	0.0519	0.0427
Jupiter	30900-09-08 03:21	G	13007303.51	13007303.64	13007303.76	0.0517	0.0164
Mars	30901-10-21 08:09	G	13007711.70	13007711.84	13007711.98	0.1745	0.0618
Mars	30902-08-15 08:38	G	13008009.74	13008009.86	13008009.98	0.1793	0.0523
Venus	30905-01-12 07:26	G	13008890.76	13008890.81	13008890.86	0.3682	0.3223
Jupiter	30906-11-06 19:26	G	13009554.13	13009554.31	13009554.48	0.0509	0.0058
Saturn	30907-03-11 15:21	G	13009679.11	13009679.14	13009679.17	0.0265	0.0256
Saturn	30907-06-08 01:55	G	13009767.47	13009767.58	13009767.69	0.0265	0.0158
Saturn	30907-09-04 12:29	G	13009855.89	13009856.02	13009856.16	0.0265	0.0058
Saturn	30907-12-01 23:17	G	13009944.33	13009944.47	13009944.61	0.0264	0.0042
Saturn	30908-02-28 10:05	G	13010032.81	13010032.92	13010033.04	0.0264	0.0143
Saturn	30908-05-26 21:07	G	13010121.33	13010121.38	13010121.43	0.0264	0.0245
Moon	30908-10-09 23:31	G	13010257.33	13010257.48	13010257.63	0.2677	0.0124

Earth 30908-10-10 00:14 G 13010257.35 13010257.51 13010257.66 0.2671 0.0084 *

Venus 30909-01-13 21:21 G 13010353.28 13010353.39 13010353.51 0.3689 0.1984

Venus 30910-07-29 01:12 G 13010914.45 13010914.55 13010914.65 0.3681 0.1376

Mars 30911-03-13 10:33 G 13011141.80 13011141.94 13011142.07 0.1737 0.0745

Moon 30911-04-14 12:14 G 13011173.92 13011174.01 13011174.10 0.2667 0.1560

Earth 30911-04-14 12:29 G 13011173.94 13011174.02 13011174.11 0.2661 0.1677 *

Mars 30912-01-05 16:48 G 13011440.08 13011440.20 13011440.32 0.1801 0.0550

Uranus 30912-02-26 07:55 G 13011491.75 13011491.83 13011491.92 0.0134 0.0117

Uranus 30912-05-24 14:09 G 13011579.97 13011580.09 13011580.22 0.0134 0.0094

Jupiter 30912-06-27 07:12 G 13011613.67 13011613.80 13011613.93 0.0517 0.0017

Uranus 30912-08-20 20:24 G 13011668.20 13011668.35 13011668.51 0.0134 0.0071

Uranus 30912-11-17 02:38 G 13011756.44 13011756.61 13011756.78 0.0134 0.0048

Uranus 30913-02-13 08:38 G 13011844.69 13011844.86 13011845.04 0.0134 0.0026

Uranus 30913-05-12 14:38 G 13011932.93 13011933.11 13011933.29 0.0134 0.0003

Uranus 30913-08-08 20:38 G 13012021.18 13012021.36 13012021.54 0.0134 0.0019

Uranus 30913-11-05 02:24 G 13012109.44 13012109.60 13012109.78 0.0134 0.0042

Uranus 30914-02-01 08:24 G 13012197.70 13012197.85 13012198.01 0.0134 0.0063

Uranus 30914-04-30 13:55 G 13012285.96 13012286.08 13012286.23 0.0134 0.0086

Uranus 30914-07-27 19:55 G 13012374.23 13012374.33 13012374.44 0.0134 0.0107

Venus 30914-07-30 21:50 G 13012377.28 13012377.41 13012377.53 0.3690 0.1116

Uranus 30914-10-24 01:26 G 13012462.53 13012462.56 13012462.62 0.0134 0.0129

Venus 30916-02-11 19:12 G 13012938.19 13012938.30 13012938.41 0.3681 0.0532

Moon 30918-04-07 11:45 G 13013723.93 13013723.99 13013724.05 0.2654 0.2153

Earth 30918-04-07 12:00 G 13013723.94 13013724.00 13013724.06 0.2660 0.2161 *

Jupiter 30918-08-25 16:48 G 13013864.04 13013864.20 13013864.35 0.0508 0.0259

Mars 30921-05-28 00:57 G 13014870.49 13014870.54 13014870.59 0.1809 0.1623

Venus 30921-08-27 13:12 G 13014961.97 13014962.05 13014962.14 0.3680 0.2496

Saturn 30922-10-01 22:33 G 13015362.34 13015362.44 13015362.54 0.0297 0.0243

Saturn 30922-12-29 22:05 G 13015451.24 13015451.42 13015451.59 0.0297 0.0056

Saturn 30923-03-28 20:53 G 13015540.21 13015540.37 13015540.53 0.0298 0.0129

Jupiter 30924-04-15 11:02 G 13015923.83 13015923.96 13015924.08 0.0519 0.0140

Jupiter 30924-07-13 17:45 G 13016013.18 13016013.24 13016013.29 0.0516 0.0456

Jupiter 30930-06-13 14:09 G 13018174.02 13018174.09 13018174.16 0.0507 0.0459

Jupiter 30930-09-11 21:07 G 13018264.25 13018264.38 13018264.52 0.0510 0.0328

Moon 30931-04-10 05:02 G 13018474.60 13018474.71 13018474.81 0.2657 0.0909

Earth 30931-04-10 05:45 G 13018474.63 13018474.74 13018474.84 0.2661 0.0815 *

Mars 30932-09-23 00:29 G 13019006.49 13019006.52 13019006.55 0.1784 0.1724

Neptune 30935-11-07 03:50 G 13020146.62 13020146.66 13020146.72 0.0088 0.0083

Jupiter 30936-02-02 15:07 G 13020234.02 13020234.13 13020234.24 0.0519 0.0284

Neptune 30936-02-03 05:17 G 13020234.66 13020234.72 13020234.80 0.0088 0.0076

Neptune 30936-05-01 06:43 G 13020322.70 13020322.78 13020322.87 0.0088 0.0068

Jupiter 30936-05-01 21:36 G 13020323.30 13020323.40 13020323.51 0.0517 0.0311

Neptune 30936-07-28 08:09 G 13020410.75 13020410.84 13020410.95 0.0088 0.0061

Neptune 30936-10-24 09:36 G 13020498.80 13020498.90 13020499.02 0.0088 0.0054

Saturn 30936-10-25 05:02 G 13020499.62 13020499.71 13020499.82 0.0265 0.0180

Neptune 30937-01-20 11:17 G 13020586.85 13020586.97 13020587.08 0.0088 0.0047

Saturn 30937-01-21 15:50 G 13020588.03 13020588.16 13020588.29 0.0264 0.0080

Neptune 30937-04-18 12:29 G 13020674.91 13020675.02 13020675.15 0.0088 0.0040

Saturn 30937-04-20 02:24 G 13020676.47 13020676.60 13020676.74 0.0264 0.0020

Neptune 30937-07-15 13:55 G 13020762.96 13020763.08 13020763.22 0.0088 0.0033

Saturn 30937-07-17 13:12 G 13020764.93 13020765.05 13020765.18 0.0263 0.0120

Neptune 30937-10-11 15:21 G 13020851.02 13020851.14 13020851.28 0.0088 0.0026

Saturn 30937-10-14 00:14 G 13020853.44 13020853.51 13020853.58 0.0263 0.0222

Neptune 30938-01-07 17:02 G 13020939.07 13020939.21 13020939.34 0.0088 0.0018

Neptune 30938-04-05 18:29 G 13021027.13 13021027.27 13021027.41 0.0088 0.0011

Neptune 30938-07-02 19:55 G 13021115.19 13021115.33 13021115.47 0.0088 0.0003

Neptune 30938-09-28 21:21 G 13021203.25 13021203.39 13021203.53 0.0088 0.0004

Neptune 30938-12-25 22:48 G 13021291.32 13021291.45 13021291.59 0.0088 0.0012

Neptune 30939-03-24 00:29 G 13021379.38 13021379.52 13021379.65 0.0088 0.0019

Neptune 30939-06-20 01:41 G 13021467.45 13021467.57 13021467.71 0.0088 0.0027

Neptune 30939-09-16 03:21 G 13021555.51 13021555.64 13021555.77 0.0088 0.0033

Neptune 30939-12-13 04:48 G 13021643.58 13021643.70 13021643.83 0.0088 0.0041

Neptune 30940-03-10 06:14 G 13021731.65 13021731.76 13021731.88 0.0088 0.0048

Neptune 30940-06-06 07:55 G 13021819.72 13021819.83 13021819.94 0.0088 0.0055

Neptune 30940-09-02 09:07 G 13021907.80 13021907.88 13021907.99 0.0088 0.0063

Neptune 30940-11-29 10:48 G 13021995.87 13021995.95 13021996.04 0.0088 0.0070

Neptune 30941-02-25 12:29 G 13022083.96 13022084.02 13022084.08 0.0088 0.0078

Mars 30941-04-21 08:38 G 13022138.72 13022138.86 13022138.99 0.1745 0.0795

Neptune 30941-05-24 13:41 G 13022172.05 13022172.07 13022172.12 0.0088 0.0086

Moon 30941-10-07 23:02 G 13022308.40 13022308.46 13022308.53 0.2676 0.2380

Earth 30941-10-08 00:29 G 13022308.44 13022308.52 13022308.60 0.2671 0.2292 *

Mars 30942-02-13 08:38 G 13022436.75 13022436.86 13022436.97 0.1793 0.0662

Jupiter 30942-06-30 18:43 G 13022574.11 13022574.28 13022574.45 0.0509 0.0127

Moon 30944-04-11 22:48 G 13023225.34 13023225.45 13023225.56 0.2664 0.0461

Earth 30944-04-11 23:31 G 13023225.37 13023225.48 13023225.59 0.2661 0.0567 *

Jupiter 30947-11-21 19:26 G 13024544.24 13024544.31 13024544.38 0.0520 0.0426

Jupiter 30948-02-19 01:55 G 13024633.45 13024633.58 13024633.70 0.0517 0.0166

Mars 30950-09-11 10:48 G 13025568.81 13025568.95 13025569.10 0.1737 0.0568

Mars 30951-07-06 17:02 G 13025867.09 13025867.21 13025867.33 0.1801 0.0399

Saturn 30952-05-17 20:09 G 13026183.18 13026183.34 13026183.50 0.0297 0.0113

Saturn 30952-08-14 19:12 G 13026272.13 13026272.30 13026272.47 0.0297 0.0073

Saturn 30952-11-11 17:45 G 13026361.15 13026361.24 13026361.33 0.0297 0.0255

Jupiter 30954-04-18 16:48 G 13026884.02 13026884.20 13026884.38 0.0509 0.0065

Moon 30954-10-11 06:14 G 13027059.62 13027059.76 13027059.91 0.2677 0.0482

Earth 30954-10-11 06:43 G 13027059.63 13027059.78 13027059.93 0.2671 0.0539 *

Uranus 30954-11-17 16:48 G 13027097.15 13027097.20 13027097.27 0.0144 0.0129

Uranus 30955-02-13 21:07 G 13027185.29 13027185.38 13027185.47 0.0144 0.0107

Uranus 30955-05-13 00:57 G 13027273.43 13027273.54 13027273.65 0.0144 0.0085

Uranus 30955-08-09 05:02 G 13027361.59 13027361.71 13027361.84 0.0144 0.0064

Uranus 30955-11-05 09:07 G 13027449.75 13027449.88 13027450.02 0.0145 0.0042

Uranus 30956-02-01 13:12 G 13027537.92 13027538.05 13027538.19 0.0145 0.0020

Uranus 30956-04-29 17:17 G 13027626.09 13027626.22 13027626.36 0.0145 0.0006

Uranus 30956-07-26 21:36 G 13027714.26 13027714.40 13027714.54 0.0145 0.0025

Uranus 30956-10-23 01:41 G 13027802.44 13027802.57 13027802.71 0.0145 0.0047

Uranus 30957-01-19 06:00 G 13027890.63 13027890.75 13027890.87 0.0145 0.0070

Moon 30957-04-14 17:02 G 13027976.14 13027976.21 13027976.28 0.2666 0.1967

Earth 30957-04-14 17:31 G 13027976.15 13027976.23 13027976.30 0.2661 0.1963 *

Uranus 30957-04-17 10:05 G 13027978.82 13027978.92 13027979.03 0.0145 0.0093

Uranus 30957-07-14 14:24 G 13028067.02 13028067.10 13028067.19 0.0145 0.0116

Uranus 30957-10-10 18:43 G 13028155.25 13028155.28 13028155.32 0.0145 0.0139

Jupiter 30959-12-08 05:31 G 13028943.60 13028943.73 13028943.86 0.0517 0.0018

Mars 30960-11-26 00:57 G 13029297.48 13029297.54 13029297.61 0.1809 0.1487

Venus 30961-08-19 05:31 G 13029563.65 13029563.73 13029563.81 0.3682 0.2588

Moon 30964-04-07 16:19 G 13030526.11 13030526.18 13030526.26 0.2655 0.1983

Earth 30964-04-07 16:48 G 13030526.12 13030526.20 13030526.28 0.2660 0.1877 *

Venus 30965-08-20 21:21 G 13031026.26 13031026.39 13031026.51 0.3690 0.0945

Jupiter 30966-02-04 14:24 G 13031193.95 13031194.10 13031194.26 0.0508 0.0261

Saturn 30966-03-14 07:55 G 13031231.75 13031231.83 13031231.91 0.0265 0.0209

Saturn 30966-06-10 18:14 G 13031320.14 13031320.26 13031320.39 0.0265 0.0110

Saturn 30966-09-07 05:02 G 13031408.57 13031408.71 13031408.85 0.0265 0.0010

Saturn 30966-12-04 15:50 G 13031497.03 13031497.16 13031497.29 0.0264 0.0092

Saturn 30967-03-03 02:53 G 13031585.52 13031585.62 13031585.71 0.0264 0.0193

Venus 30967-03-04 23:17 G 13031587.36 13031587.47 13031587.58 0.3681 0.0727

Venus 30971-03-06 21:36 G 13033050.29 13033050.40 13033050.50 0.3690 0.2133

Jupiter 30971-09-26 09:21 G 13033253.77 13033253.89 13033254.02 0.0518 0.0138

Jupiter 30971-12-24 16:05 G 13033343.11 13033343.17 13033343.23 0.0515 0.0456

Venus 30972-09-17 17:17 G 13033611.11 13033611.22 13033611.33 0.3680 0.1202

Pluto 30976-08-27 06:29 G 13035050.68 13035050.77 13035050.91 0.0074 0.0062

Pluto 30976-11-23 09:07 G 13035138.74 13035138.88 13035139.07 0.0074 0.0044

Pluto 30977-02-19 12:00 G 13035226.83 13035227.00 13035227.20 0.0074 0.0025

Moon 30977-04-10 09:50 G 13035276.80 13035276.91 13035277.02 0.2658 0.0592

Earth 30977-04-10 10:33 G 13035276.83 13035276.94 13035277.05 0.2660 0.0526 *

Pluto 30977-05-18 14:53 G 13035314.92 13035315.12 13035315.32 0.0074 0.0007

Pluto 30977-08-14 17:17 G 13035403.03 13035403.22 13035403.43 0.0074 0.0012

Pluto 30977-11-10 20:09 G 13035491.16 13035491.34 13035491.52 0.0074 0.0029

Jupiter 30977-11-23 11:31 G 13035503.92 13035503.98 13035504.06 0.0507 0.0464

Pluto 30978-02-06 22:33 G 13035579.30 13035579.44 13035579.60 0.0074 0.0047

Jupiter 30978-02-21 18:57 G 13035594.16 13035594.29 13035594.42 0.0510 0.0325

Venus 30978-04-03 11:31 G 13035634.92 13035634.98 13035635.03 0.3680 0.3195

Pluto 30978-05-06 00:57 G 13035667.46 13035667.54 13035667.65 0.0074 0.0065

Mars 30980-10-20 09:07 G 13036565.76 13036565.88 13036566.01 0.1746 0.0985

Mars 30981-08-14 08:53 G 13036863.76 13036863.87 13036863.98 0.1792 0.0810

Saturn 30981-10-04 21:07 G 13036915.23 13036915.38 13036915.54 0.0297 0.0150

Saturn 30982-01-01 20:24 G 13037004.17 13037004.35 13037004.52 0.0297 0.0037

Saturn 30982-03-31 18:57 G 13037093.18 13037093.29 13037093.41 0.0298 0.0220

Jupiter 30983-07-15 13:12 G 13037563.94 13037564.05 13037564.16 0.0519 0.0291

Jupiter 30983-10-12 19:41 G 13037653.22 13037653.32 13037653.43 0.0516 0.0303

Moon 30987-10-09 05:45 G 13039110.64 13039110.74 13039110.84 0.2676 0.1999

Earth 30987-10-09 06:57 G 13039110.67 13039110.79 13039110.91 0.2671 0.1743 *

Jupiter 30989-12-10 16:33 G 13039904.02 13039904.19 13039904.36 0.0509 0.0128

Mars 30990-03-12 11:31 G 13039995.83 13039995.98 13039996.13 0.1737 0.0370

Moon 30990-04-13 03:36 G 13040027.55 13040027.65 13040027.76 0.2665 0.0770

Earth 30990-04-13 04:19 G 13040027.58 13040027.68 13040027.79 0.2661 0.0852 *

Mars 30991-01-04 16:48 G 13040294.08 13040294.20 13040294.32 0.1801 0.0277

Jupiter 30995-05-03 17:17 G 13041874.15 13041874.22 13041874.29 0.0520 0.0437

Jupiter 30995-07-31 23:45 G 13041963.36 13041963.49 13041963.61 0.0517 0.0156

Saturn 30995-08-01 11:17 G 13041963.91 13041963.97 13041964.04 0.0265 0.0228

Saturn 30995-10-28 21:50 G 13042052.30 13042052.41 13042052.53 0.0265 0.0130

Saturn 30996-01-25 08:38 G 13042140.72 13042140.86 13042140.99 0.0264 0.0030

Uranus 30996-03-17 14:09 G 13042193.01 13042193.09 13042193.20 0.0134 0.0114

Saturn 30996-04-22 19:26 G 13042229.17 13042229.31 13042229.44 0.0264 0.0071

Uranus 30996-06-13 20:24 G 13042281.23 13042281.35 13042281.50 0.0134 0.0091

Saturn 30996-07-20 06:14 G 13042317.66 13042317.76 13042317.86 0.0263 0.0172

Uranus 30996-09-10 02:38 G 13042369.47 13042369.61 13042369.78 0.0134 0.0068

Uranus 30996-12-07 08:53 G 13042457.71 13042457.87 13042458.05 0.0134 0.0045

Uranus 30997-03-05 15:07 G 13042545.95 13042546.13 13042546.31 0.0134 0.0022

Uranus 30997-06-01 21:07 G 13042634.20 13042634.38 13042634.56 0.0134 0.0001

Uranus 30997-08-29 03:07 G 13042722.45 13042722.63 13042722.80 0.0134 0.0023

Uranus 30997-11-25 08:53 G 13042810.71 13042810.87 13042811.04 0.0134 0.0045

Uranus 30998-02-21 14:38 G 13042898.97 13042899.11 13042899.27 0.0134 0.0068

Uranus 30998-05-20 20:24 G 13042987.24 13042987.35 13042987.50 0.0134 0.0090

Uranus 30998-08-17 02:24 G 13043075.51 13043075.60 13043075.70 0.0134 0.0111

Uranus 30998-11-13 07:55 G 13043163.83 13043163.83 13043163.87 0.0134 0.0133

Mars 31000-05-28 01:12 G 13043724.47 13043724.55 13043724.63 0.1809 0.1340

Moon 31000-10-12 13:12 G 13043861.91 13043862.05 13043862.18 0.2678 0.1143

Earth 31000-10-12 13:12 G 13043861.91 13043862.05 13043862.19 0.2671 0.1072 *

32ND MILLENNIUM CE

This is a list of transits of Mercury in the 32nd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Jupiter 31001-09-29 13:55 G 13044213.90 13044214.08 13044214.25 0.0508 0.0076

Moon 31003-04-16 22:05 G 13044778.36 13044778.42 13044778.48 0.2667 0.2201

Earth 31003-04-16 22:19 G 13044778.37 13044778.43 13044778.49 0.2661 0.2252 *

Jupiter 31007-05-21 03:50 G 13046273.53 13046273.66 13046273.79 0.0518 0.0017

Moon 31010-04-09 21:07 G 13047328.29 13047328.38 13047328.47 0.2655 0.1602

Earth 31010-04-09 21:36 G 13047328.31 13047328.40 13047328.49 0.2660 0.1601 *

Saturn 31011-02-22 19:41 G 13047647.20 13047647.32 13047647.46 0.0296 0.0203

Saturn 31011-05-22 19:12 G 13047736.12 13047736.30 13047736.47 0.0297 0.0017

Saturn 31011-08-19 18:00 G 13047825.10 13047825.25 13047825.39 0.0297 0.0168

Jupiter 31013-07-18 11:45 G 13048523.84 13048523.99 13048524.14 0.0508 0.0271

Venus 31016-09-11 20:24 G 13049675.28 13049675.35 13049675.42 0.3689 0.3088

Venus 31018-03-27 03:36 G 13050236.55 13050236.65 13050236.74 0.3681 0.1956

Jupiter 31019-03-09 07:55 G 13050583.70 13050583.83 13050583.95 0.0518 0.0138

Jupiter 31019-06-06 14:24 G 13050673.04 13050673.10 13050673.16 0.0515 0.0455

Neptune 31019-10-23 17:45 G 13050812.19 13050812.24 13050812.29 0.0089 0.0085

Neptune 31020-01-19 20:53 G 13050900.28 13050900.37 13050900.47 0.0089 0.0075

Neptune 31020-04-17 00:14 G 13050988.39 13050988.51 13050988.64 0.0089 0.0065

Mars 31020-04-21 09:36 G 13050992.79 13050992.90 13050993.02 0.1746 0.1172

Neptune 31020-07-14 03:21 G 13051076.50 13051076.64 13051076.79 0.0089 0.0055

Neptune 31020-10-10 06:29 G 13051164.62 13051164.77 13051164.94 0.0089 0.0045

Neptune 31021-01-06 09:50 G 13051252.74 13051252.91 13051253.08 0.0089 0.0035

Mars 31021-02-13 08:53 G 13051290.76 13051290.87 13051290.97 0.1792 0.0946

Neptune 31021-04-04 12:57 G 13051340.87 13051341.04 13051341.22 0.0089 0.0025

Neptune 31021-07-01 16:05 G 13051429.00 13051429.17 13051429.36 0.0089 0.0016

Neptune 31021-09-27 19:26 G 13051517.12 13051517.31 13051517.49 0.0089 0.0006

Neptune 31021-12-24 22:33 G 13051605.26 13051605.44 13051605.62 0.0089 0.0004

Neptune 31022-03-23 01:41 G 13051693.39 13051693.57 13051693.75 0.0089 0.0014

Venus 31022-03-28 21:07 G 13051699.24 13051699.38 13051699.51 0.3690 0.0124

Neptune 31022-06-19 04:33 G 13051781.52 13051781.69 13051781.87 0.0089 0.0024

Neptune 31022-09-15 07:41 G 13051869.66 13051869.82 13051870.00 0.0089 0.0034

Neptune 31022-12-12 10:48 G 13051957.80 13051957.95 13051958.12 0.0089 0.0043

Neptune 31023-03-10 13:55 G 13052045.94 13052046.08 13052046.23 0.0089 0.0053

Moon 31023-04-12 14:38 G 13052079.00 13052079.11 13052079.22 0.2660 0.0381

Earth 31023-04-12 15:21 G 13052079.03 13052079.14 13052079.25 0.2660 0.0243 *

Neptune 31023-06-06 16:48 G 13052134.09 13052134.20 13052134.34 0.0089 0.0063

Neptune 31023-09-02 20:09 G 13052222.24 13052222.34 13052222.45 0.0089 0.0072

Venus 31023-10-10 21:21 G 13052260.28 13052260.39 13052260.50 0.3681 0.0073

Neptune 31023-11-29 22:48 G 13052310.40 13052310.45 13052310.54 0.0089 0.0082

Saturn 31024-12-19 13:55 G 13052696.06 13052696.08 13052696.12 0.0266 0.0258

Saturn 31025-03-18 00:29 G 13052784.42 13052784.52 13052784.63 0.0265 0.0159

Jupiter 31025-05-06 09:07 G 13052833.81 13052833.88 13052833.94 0.0508 0.0471

Saturn 31025-06-14 11:17 G 13052872.83 13052872.97 13052873.10 0.0265 0.0059

Jupiter 31025-08-04 16:19 G 13052924.05 13052924.18 13052924.32 0.0510 0.0321

Saturn 31025-09-10 21:50 G 13052961.28 13052961.41 13052961.55 0.0265 0.0043

Saturn 31025-12-08 08:53 G 13053049.75 13053049.87 13053049.98 0.0264 0.0143

Saturn 31026-03-06 19:41 G 13053138.28 13053138.32 13053138.37 0.0264 0.0246

Venus 31027-10-12 21:07 G 13053723.32 13053723.38 13053723.45 0.3690 0.3128

Venus 31029-04-25 15:21 G 13054284.04 13054284.14 13054284.24 0.3680 0.1888

Mars 31029-09-11 12:00 G 13054422.85 13054423.00 13054423.15 0.1738 0.0187

Mars 31030-07-06 17:02 G 13054721.09 13054721.21 13054721.33 0.1800 0.0124

Jupiter 31030-12-26 11:45 G 13054893.88 13054893.99 13054894.10 0.0519 0.0288

Jupiter 31031-03-25 18:14 G 13054983.15 13054983.26 13054983.36 0.0516 0.0303

Moon 31033-10-10 12:29 G 13055912.89 13055913.02 13055913.16 0.2676 0.1227

Earth 31033-10-10 13:26 G 13055912.92 13055913.06 13055913.20 0.2671 0.1196 *

Moon 31036-04-14 08:38 G 13056829.76 13056829.86 13056829.96 0.2665 0.1076

Earth 31036-04-14 09:07 G 13056829.78 13056829.88 13056829.98 0.2660 0.1147 *

Jupiter 31037-05-23 14:09 G 13057233.92 13057234.09 13057234.26 0.0509 0.0121

Uranus 31038-09-11 20:24 G 13057710.34 13057710.35 13057710.36 0.0144 0.0144

Uranus 31038-12-09 00:14 G 13057798.45 13057798.51 13057798.59 0.0144 0.0123

Mars 31039-02-01 14:09 G 13057853.02 13057853.09 13057853.16 0.1730 0.1547

Uranus 31039-03-07 04:19 G 13057886.59 13057886.68 13057886.78 0.0144 0.0101

Uranus 31039-06-03 08:24 G 13057974.74 13057974.85 13057974.97 0.0144 0.0080

Uranus 31039-08-30 12:29 G 13058062.89 13058063.02 13058063.15 0.0144 0.0058

Uranus 31039-11-26 16:19 G 13058151.05 13058151.18 13058151.32 0.0145 0.0037

Mars 31039-11-27 01:12 G 13058151.46 13058151.55 13058151.64 0.1809 0.1208

Uranus 31040-02-22 20:38 G 13058239.22 13058239.36 13058239.50 0.0145 0.0014

Uranus 31040-05-21 00:43 G 13058327.39 13058327.53 13058327.67 0.0145 0.0008

Saturn 31040-07-11 20:53 G 13058379.27 13058379.37 13058379.48 0.0296 0.0238

Uranus 31040-08-17 04:48 G 13058415.57 13058415.70 13058415.84 0.0145 0.0031

Saturn 31040-10-08 20:24 G 13058468.17 13058468.35 13058468.52 0.0297 0.0050

Uranus 31040-11-13 08:53 G 13058503.75 13058503.87 13058504.01 0.0145 0.0054

Saturn 31041-01-05 19:12 G 13058557.15 13058557.30 13058557.46 0.0297 0.0135

Uranus 31041-02-09 13:12 G 13058591.94 13058592.05 13058592.18 0.0145 0.0076

Uranus 31041-05-08 17:31 G 13058680.13 13058680.23 13058680.34 0.0145 0.0099

Uranus 31041-08-04 21:50 G 13058768.34 13058768.41 13058768.49 0.0145 0.0122

Jupiter 31042-10-14 15:21 G 13059204.08 13059204.14 13059204.21 0.0520 0.0444

Jupiter 31043-01-11 21:36 G 13059293.28 13059293.40 13059293.53 0.0517 0.0148

Moon 31043-04-08 08:38 G 13059379.85 13059379.86 13059379.87 0.2654 0.2621

Earth 31046-10-13 19:26 G 13060664.19 13060664.31 13060664.44 0.2671 0.1605

Moon 31046-10-13 19:41 G 13060664.20 13060664.32 13060664.45 0.2678 0.1553 *

Jupiter 31049-03-11 11:45 G 13061543.81 13061543.99 13061544.16 0.0508 0.0078

Moon 31049-04-17 03:07 G 13061580.60 13061580.63 13061580.66 0.2667 0.2558

Earth 31049-04-17 03:07 G 13061580.60 13061580.63 13061580.66 0.2661 0.2544 *

Saturn 31054-08-05 04:19 G 13063516.58 13063516.68 13063516.78 0.0265 0.0177

Jupiter 31054-10-31 01:41 G 13063603.44 13063603.57 13063603.70 0.0518 0.0009

Saturn 31054-11-01 14:53 G 13063604.99 13063605.12 13063605.25 0.0264 0.0077

Saturn 31055-01-29 01:41 G 13063693.43 13063693.57 13063693.70 0.0264 0.0024

Saturn 31055-04-27 12:14 G 13063781.90 13063782.01 13063782.14 0.0264 0.0125

Saturn 31055-07-24 23:17 G 13063870.40 13063870.47 13063870.54 0.0263 0.0226

Moon 31056-04-10 01:55 G 13064130.49 13064130.58 13064130.67 0.2655 0.1450

Earth 31056-04-10 02:24 G 13064130.50 13064130.60 13064130.70 0.2660 0.1320 *

Mars 31059-10-21 10:05 G 13065419.83 13065419.92 13065420.02 0.1746 0.1352

Mars 31060-08-14 08:53 G 13065717.78 13065717.87 13065717.97 0.1792 0.1094

Jupiter 31060-12-28 08:38 G 13065853.71 13065853.86 13065854.01 0.0508 0.0283

Jupiter 31061-03-28 15:21 G 13065944.12 13065944.14 13065944.18 0.0510 0.0501

Jupiter 31066-08-19 06:00 G 13067913.62 13067913.75 13067913.87 0.0519 0.0145

Jupiter 31066-11-16 12:43 G 13068002.96 13068003.03 13068003.09 0.0516 0.0450

Mars 31069-03-12 12:29 G 13068849.86 13068850.02 13068850.17 0.1738 0.0038

Moon 31069-04-12 19:26 G 13068881.20 13068881.31 13068881.42 0.2662 0.0005

Earth 31069-04-12 20:09 G 13068881.23 13068881.34 13068881.45 0.2660 0.0043 *

Venus 31069-04-17 07:55 G 13068885.77 13068885.83 13068885.88 0.3682 0.3146

Saturn 31069-11-28 20:09 G 13069111.30 13069111.34 13069111.38 0.0296 0.0288

Mars 31070-01-04 17:02 G 13069148.09 13069148.21 13069148.34 0.1800 0.0050

Saturn 31070-02-25 19:41 G 13069200.15 13069200.32 13069200.48 0.0296 0.0100

Saturn 31070-05-25 18:43 G 13069289.11 13069289.28 13069289.44 0.0297 0.0086

Saturn 31070-08-22 17:17 G 13069378.15 13069378.22 13069378.29 0.0297 0.0269

Jupiter 31072-10-16 06:14 G 13070163.71 13070163.76 13070163.82 0.0507 0.0481

Jupiter 31073-01-14 13:41 G 13070253.93 13070254.07 13070254.21 0.0510 0.0309

Venus 31073-04-18 20:24 G 13070348.24 13070348.35 13070348.46 0.3689 0.2004

Venus 31074-11-01 01:26 G 13070909.46 13070909.56 13070909.67 0.3681 0.1309

Jupiter 31078-06-07 10:05 G 13072223.81 13072223.92 13072224.03 0.0519 0.0291

Mars 31078-08-02 14:38 G 13072280.02 13072280.11 13072280.21 0.1730 0.1359

Jupiter 31078-09-04 16:19 G 13072313.08 13072313.18 13072313.29 0.0516 0.0301

Venus 31078-11-02 20:53 G 13072372.25 13072372.37 13072372.50 0.3690 0.1151

Mars 31079-05-28 01:12 G 13072578.45 13072578.55 13072578.65 0.1809 0.1069

Moon 31079-10-11 19:26 G 13072715.16 13072715.31 13072715.45 0.2677 0.0824

Earth 31079-10-11 19:55 G 13072715.18 13072715.33 13072715.48 0.2671 0.0653 *

Uranus 31080-01-10 14:38 G 13072806.10 13072806.11 13072806.15 0.0134 0.0132

Uranus 31080-04-07 20:53 G 13072894.28 13072894.37 13072894.49 0.0134 0.0109

Venus 31080-05-16 19:26 G 13072933.20 13072933.31 13072933.42 0.3681 0.0611

Uranus 31080-07-05 03:07 G 13072982.51 13072982.63 13072982.78 0.0134 0.0086

Uranus 31080-10-01 09:21 G 13073070.74 13073070.89 13073071.06 0.0134 0.0063

Uranus 31080-12-28 15:36 G 13073158.99 13073159.15 13073159.33 0.0134 0.0040

Uranus 31081-03-26 21:50 G 13073247.23 13073247.41 13073247.59 0.0134 0.0017

Uranus 31081-06-23 03:50 G 13073335.49 13073335.66 13073335.84 0.0134 0.0006

Uranus 31081-09-19 09:50 G 13073423.74 13073423.91 13073424.09 0.0134 0.0028

Uranus 31081-12-16 15:36 G 13073512.00 13073512.15 13073512.32 0.0134 0.0051

Uranus 31082-03-14 21:36 G 13073600.26 13073600.40 13073600.55 0.0134 0.0073

Moon 31082-04-15 13:26 G 13073631.97 13073632.06 13073632.16 0.2665 0.1333

Earth 31082-04-15 13:55 G 13073631.99 13073632.08 13073632.18 0.2660 0.1434 *

Uranus 31082-06-11 03:21 G 13073688.53 13073688.64 13073688.77 0.0134 0.0095

Uranus 31082-09-07 09:21 G 13073776.81 13073776.89 13073776.98 0.0134 0.0116

Saturn 31083-12-23 06:43 G 13074248.70 13074248.78 13074248.87 0.0265 0.0207

Saturn 31084-03-20 17:31 G 13074337.10 13074337.23 13074337.35 0.0265 0.0107

Saturn 31084-06-17 04:05 G 13074425.53 13074425.67 13074425.81 0.0265 0.0008

Saturn 31084-09-13 14:53 G 13074513.99 13074514.12 13074514.25 0.0264 0.0095

Jupiter 31084-11-02 11:17 G 13074563.80 13074563.97 13074564.14 0.0510 0.0112

Saturn 31084-12-11 01:41 G 13074602.49 13074602.57 13074602.67 0.0264 0.0197

Venus 31085-11-30 13:41 G 13074956.99 13074957.07 13074957.15 0.3680 0.2591

Moon 31089-04-08 13:12 G 13076182.01 13076182.05 13076182.10 0.2653 0.2440

Earth 31089-04-08 13:26 G 13076182.02 13076182.06 13076182.11 0.2660 0.2387 *

Jupiter 31090-03-26 13:55 G 13076534.02 13076534.08 13076534.15 0.0520 0.0440

Jupiter 31090-06-23 20:09 G 13076623.22 13076623.34 13076623.47 0.0517 0.0151

Earth 31092-10-14 01:55 G 13077466.49 13077466.58 13077466.67 0.2671 0.2129

Moon 31092-10-14 02:09 G 13077466.52 13077466.59 13077466.67 0.2678 0.2266 *

Jupiter 31096-08-21 08:53 G 13078873.70 13078873.87 13078874.05 0.0508 0.0087

Mars 31099-04-21 10:33 G 13079846.87 13079846.94 13079847.01 0.1746 0.1535

Saturn 31099-07-15 20:24 G 13079932.20 13079932.35 13079932.51 0.0297 0.0137

Saturn 31099-10-12 19:41 G 13080021.14 13080021.32 13080021.49 0.0297 0.0050

Saturn 31100-01-09 18:14 G 13080110.16 13080110.26 13080110.37 0.0298 0.0234

Mars 31100-02-13 08:53 G 13080144.79 13080144.87 13080144.96 0.1792 0.1232

Neptune 31100-05-09 02:24 G 13080229.57 13080229.60 13080229.63 0.0088 0.0086

Neptune 31100-08-05 03:50 G 13080317.60 13080317.66 13080317.72 0.0088 0.0079

Neptune 31100-11-01 05:17 G 13080405.64 13080405.72 13080405.80 0.0088 0.0072

Neptune 31101-01-28 06:29 G 13080493.69 13080493.77 13080493.87 0.0088 0.0065

Neptune 31101-04-26 07:55 G 13080581.74 13080581.83 13080581.94 0.0088 0.0058

Neptune 31101-07-23 09:21 G 13080669.79 13080669.89 13080670.01 0.0088 0.0051

Neptune 31101-10-19 10:48 G 13080757.84 13080757.95 13080758.08 0.0088 0.0043

Neptune 31102-01-15 12:29 G 13080845.89 13080846.02 13080846.14 0.0088 0.0036

Moon 31102-04-12 06:43 G 13080932.67 13080932.78 13080932.88 0.2656 0.1069

Earth 31102-04-12 07:12 G 13080932.70 13080932.80 13080932.90 0.2660 0.1043 *

Jupiter 31102-04-12 23:45 G 13080933.36 13080933.49 13080933.62 0.0518 0.0010

Neptune 31102-04-13 13:55 G 13080933.95 13080934.08 13080934.21 0.0088 0.0029

Neptune 31102-07-10 15:21 G 13081022.01 13081022.14 13081022.27 0.0088 0.0021

Neptune 31102-10-06 16:48 G 13081110.07 13081110.20 13081110.34 0.0088 0.0014

Neptune 31103-01-02 18:14 G 13081198.12 13081198.26 13081198.40 0.0088 0.0007

Neptune 31103-03-31 19:41 G 13081286.18 13081286.32 13081286.46 0.0088 0.0002

Neptune 31103-06-27 21:07 G 13081374.25 13081374.38 13081374.52 0.0088 0.0008

Neptune 31103-09-23 22:33 G 13081462.31 13081462.44 13081462.58 0.0088 0.0016

Neptune 31103-12-21 00:14 G 13081550.37 13081550.51 13081550.64 0.0088 0.0022

Neptune 31104-03-18 01:41 G 13081638.44 13081638.57 13081638.70 0.0088 0.0030

Neptune 31104-06-14 03:07 G 13081726.51 13081726.63 13081726.76 0.0088 0.0037

Neptune 31104-09-10 04:33 G 13081814.58 13081814.69 13081814.82 0.0088 0.0045

Neptune 31104-12-07 06:00 G 13081902.65 13081902.75 13081902.87 0.0088 0.0052

Neptune 31105-03-05 07:26 G 13081990.72 13081990.81 13081990.92 0.0088 0.0060

Neptune 31105-06-01 09:07 G 13082078.79 13082078.88 13082078.97 0.0088 0.0067

Neptune 31105-08-28 10:19 G 13082166.87 13082166.93 13082167.02 0.0088 0.0075

Neptune 31105-11-24 12:00 G 13082254.96 13082255.00 13082255.06 0.0088 0.0082

Jupiter 31108-06-10 06:29 G 13083183.62 13083183.77 13083183.92 0.0508 0.0285

Jupiter 31108-09-08 13:26 G 13083274.03 13083274.06 13083274.09 0.0510 0.0499

Mars 31108-09-11 12:57 G 13083276.89 13083277.04 13083277.20 0.1738 0.0193

Mars 31109-07-06 17:02 G 13083575.09 13083575.21 13083575.34 0.1800 0.0161

Saturn 31113-05-12 10:33 G 13084980.87 13084980.94 13084981.02 0.0265 0.0224

Saturn 31113-08-08 21:07 G 13085069.26 13085069.38 13085069.50 0.0265 0.0125

Saturn 31113-11-05 07:55 G 13085157.69 13085157.83 13085157.96 0.0264 0.0025

Jupiter 31114-01-30 03:36 G 13085243.53 13085243.65 13085243.78 0.0519 0.0159

Saturn 31114-02-01 18:29 G 13085246.14 13085246.27 13085246.41 0.0264 0.0077

Jupiter 31114-04-29 10:19 G 13085332.86 13085332.93 13085333.00 0.0516 0.0438

Saturn 31114-05-01 05:31 G 13085334.63 13085334.73 13085334.83 0.0264 0.0178

Moon 31115-04-15 00:14 G 13085683.40 13085683.51 13085683.62 0.2662 0.0161

Earth 31115-04-15 00:57 G 13085683.43 13085683.54 13085683.65 0.2660 0.0328 *

Mars 31118-02-01 15:07 G 13086707.02 13086707.13 13086707.24 0.1730 0.1182

Mars 31118-11-27 01:26 G 13087005.45 13087005.56 13087005.66 0.1808 0.0919

Jupiter 31120-03-29 03:07 G 13087493.60 13087493.63 13087493.68 0.0507 0.0492

Jupiter 31120-06-27 10:33 G 13087583.80 13087583.94 13087584.09 0.0509 0.0298

Uranus 31122-10-03 03:50 G 13088411.63 13088411.66 13088411.70 0.0144 0.0138

Uranus 31122-12-30 07:41 G 13088499.75 13088499.82 13088499.91 0.0144 0.0117

Uranus 31123-03-28 12:00 G 13088587.89 13088588.00 13088588.10 0.0144 0.0095

Uranus 31123-06-24 15:50 G 13088676.04 13088676.16 13088676.28 0.0144 0.0073

Uranus 31123-09-20 19:55 G 13088764.20 13088764.33 13088764.46 0.0144 0.0051

Uranus 31123-12-18 00:00 G 13088852.37 13088852.50 13088852.64 0.0145 0.0029

Uranus 31124-03-15 04:05 G 13088940.53 13088940.67 13088940.81 0.0145 0.0008

Uranus 31124-06-11 08:09 G 13089028.71 13089028.84 13089028.98 0.0145 0.0016

Uranus 31124-09-07 12:29 G 13089116.88 13089117.02 13089117.15 0.0145 0.0038

Uranus 31124-12-04 16:33 G 13089205.07 13089205.19 13089205.32 0.0145 0.0060

Uranus 31125-03-02 20:53 G 13089293.26 13089293.37 13089293.49 0.0145 0.0083

Uranus 31125-05-30 00:57 G 13089381.45 13089381.54 13089381.64 0.0145 0.0106

Uranus 31125-08-26 05:17 G 13089469.67 13089469.72 13089469.79 0.0145 0.0129

Moon 31125-10-13 02:09 G 13089517.44 13089517.59 13089517.74 0.2678 0.0066

Earth 31125-10-13 02:38 G 13089517.45 13089517.61 13089517.76 0.2671 0.0111 *

Jupiter 31125-11-18 07:55 G 13089553.73 13089553.83 13089553.94 0.0520 0.0301

Venus 31125-11-23 06:00 G 13089558.67 13089558.75 13089558.83 0.3682 0.2511

Jupiter 31126-02-15 14:24 G 13089642.99 13089643.10 13089643.21 0.0517 0.0293

Moon 31128-04-16 18:29 G 13090434.19 13090434.27 13090434.36 0.2666 0.1717

Earth 31128-04-16 18:57 G 13090434.20 13090434.29 13090434.37 0.2660 0.1718 *

Saturn 31128-12-02 19:41 G 13090664.19 13090664.32 13090664.47 0.0296 0.0186

Saturn 31129-03-01 19:12 G 13090753.12 13090753.30 13090753.47 0.0297 0.0006

Saturn 31129-05-29 18:00 G 13090842.11 13090842.25 13090842.38 0.0297 0.0187

Venus 31129-11-24 20:24 G 13091021.22 13091021.35 13091021.47 0.3689 0.0933

Venus 31131-06-08 23:31 G 13091582.37 13091582.48 13091582.59 0.3681 0.0652

Jupiter 31132-04-15 08:38 G 13091893.68 13091893.86 13091894.03 0.0509 0.0103

Moon 31135-04-10 18:00 G 13092984.19 13092984.25 13092984.32 0.2653 0.2119

Earth 31135-04-10 18:14 G 13092984.20 13092984.26 13092984.33 0.2660 0.2109 *

Venus 31135-06-10 20:38 G 13093045.26 13093045.36 13093045.47 0.3690 0.2181

Venus 31136-12-22 17:31 G 13093606.13 13093606.23 13093606.34 0.3680 0.1297

Pluto 31137-03-08 12:43 G 13093681.98 13093682.03 13093682.08 0.0069 0.0064

Pluto 31137-06-04 12:57 G 13093769.97 13093770.04 13093770.13 0.0070 0.0055

Pluto 31137-08-31 13:41 G 13093857.98 13093858.07 13093858.17 0.0070 0.0045

Jupiter 31137-09-06 12:14 G 13093863.95 13093864.01 13093864.08 0.0520 0.0444

Pluto 31137-11-27 14:09 G 13093945.99 13093946.09 13093946.21 0.0070 0.0035

Jupiter 31137-12-04 18:29 G 13093953.15 13093953.27 13093953.40 0.0517 0.0146

Pluto 31138-02-23 14:53 G 13094034.00 13094034.12 13094034.24 0.0070 0.0025

Pluto 31138-05-22 15:21 G 13094122.02 13094122.14 13094122.27 0.0070 0.0015

Pluto 31138-08-18 16:05 G 13094210.04 13094210.17 13094210.30 0.0070 0.0005

Earth 31138-10-16 08:24 G 13094268.84 13094268.85 13094268.86 0.2671 0.2659

Moon 31138-10-16 08:53 G 13094268.85 13094268.87 13094268.90 0.2677 0.2640 *

Mars 31138-10-21 11:17 G 13094273.95 13094273.97 13094273.99 0.1747 0.1729

Pluto 31138-11-14 16:33 G 13094298.06 13094298.19 13094298.32 0.0070 0.0005

Pluto 31139-02-10 17:02 G 13094386.09 13094386.21 13094386.34 0.0070 0.0016

Pluto 31139-05-09 17:45 G 13094474.12 13094474.24 13094474.36 0.0070 0.0025

Pluto 31139-08-05 18:14 G 13094562.15 13094562.26 13094562.38 0.0071 0.0036

Mars 31139-08-15 09:07 G 13094571.80 13094571.88 13094571.96 0.1792 0.1376

Pluto 31139-11-01 18:57 G 13094650.19 13094650.29 13094650.39 0.0071 0.0046

Pluto 31140-01-28 19:12 G 13094738.24 13094738.30 13094738.39 0.0071 0.0057

Pluto 31140-04-25 19:55 G 13094826.30 13094826.33 13094826.38 0.0071 0.0067

Venus 31142-07-08 11:45 G 13095629.94 13095629.99 13095630.04 0.3680 0.3292

Saturn 31142-09-29 13:12 G 13095713.02 13095713.05 13095713.09 0.0266 0.0253

Saturn 31142-12-26 23:45 G 13095801.38 13095801.49 13095801.60 0.0265 0.0154

Saturn 31143-03-25 10:19 G 13095889.80 13095889.93 13095890.07 0.0265 0.0055

Saturn 31143-06-21 21:07 G 13095978.24 13095978.38 13095978.51 0.0264 0.0046

Saturn 31143-09-18 07:55 G 13096066.72 13096066.83 13096066.95 0.0264 0.0148

Saturn 31143-12-15 18:57 G 13096155.25 13096155.29 13096155.33 0.0264 0.0250

Jupiter 31144-02-02 06:00 G 13096203.58 13096203.75 13096203.93 0.0509 0.0097

Mars 31148-03-12 13:26 G 13097703.92 13097704.06 13097704.21 0.1738 0.0374

Moon 31148-04-12 11:17 G 13097734.87 13097734.97 13097735.08 0.2658 0.0891

Earth 31148-04-12 12:00 G 13097734.89 13097735.00 13097735.11 0.2660 0.0757 *

Mars 31149-01-04 17:17 G 13098002.10 13098002.22 13098002.34 0.1800 0.0300

Jupiter 31149-09-22 22:33 G 13098263.30 13098263.44 13098263.57 0.0518 0.0016

Jupiter 31155-11-21 03:36 G 13100513.51 13100513.65 13100513.80 0.0508 0.0295

Jupiter 31156-02-19 10:48 G 13100603.91 13100603.95 13100603.99 0.0510 0.0492

Mars 31157-08-02 15:36 G 13101134.03 13101134.15 13101134.28 0.1730 0.0993

Saturn 31158-04-21 20:09 G 13101396.22 13101396.34 13101396.45 0.0296 0.0227

Mars 31158-05-28 01:26 G 13101432.45 13101432.56 13101432.67 0.1808 0.0790

Saturn 31158-07-19 19:26 G 13101485.14 13101485.31 13101485.49 0.0297 0.0038

Moon 31158-10-11 01:26 G 13101568.52 13101568.56 13101568.61 0.2676 0.2551

Earth 31158-10-11 02:38 G 13101568.55 13101568.61 13101568.68 0.2671 0.2403 *

Saturn 31158-10-16 18:29 G 13101574.12 13101574.27 13101574.42 0.0297 0.0148

Moon 31161-04-15 05:02 G 13102485.60 13102485.71 13102485.82 0.2662 0.0579

Earth 31161-04-15 05:45 G 13102485.63 13102485.74 13102485.85 0.2660 0.0613 *

Jupiter 31161-07-12 01:55 G 13102573.46 13102573.58 13102573.70 0.0519 0.0164

Jupiter 31161-10-09 08:24 G 13102662.78 13102662.85 13102662.92 0.0516 0.0431

Uranus 31164-01-31 21:36 G 13103507.36 13103507.40 13103507.47 0.0134 0.0127

Uranus 31164-04-29 03:50 G 13103595.56 13103595.66 13103595.79 0.0134 0.0104

Uranus 31164-07-26 10:19 G 13103683.79 13103683.93 13103684.08 0.0134 0.0080

Uranus 31164-10-22 16:33 G 13103772.03 13103772.19 13103772.35 0.0134 0.0057

Uranus 31165-01-18 22:33 G 13103860.27 13103860.44 13103860.62 0.0134 0.0034

Uranus 31165-04-17 04:48 G 13103948.52 13103948.70 13103948.88 0.0134 0.0012

Uranus 31165-07-14 10:48 G 13104036.77 13104036.95 13104037.13 0.0134 0.0011

Uranus 31165-10-10 16:33 G 13104125.03 13104125.19 13104125.37 0.0134 0.0034

Uranus 31166-01-06 22:33 G 13104213.29 13104213.44 13104213.61 0.0134 0.0056

Uranus 31166-04-05 04:19 G 13104301.55 13104301.68 13104301.84 0.0134 0.0078

Uranus 31166-07-02 10:19 G 13104389.82 13104389.93 13104390.05 0.0133 0.0099

Uranus 31166-09-28 16:19 G 13104478.11 13104478.18 13104478.25 0.0133 0.0121

Jupiter 31167-09-09 01:12 G 13104823.51 13104823.55 13104823.60 0.0507 0.0491

Jupiter 31167-12-08 08:38 G 13104913.72 13104913.86 13104914.01 0.0509 0.0299

Moon 31171-10-14 08:53 G 13106319.72 13106319.87 13106320.02 0.2678 0.0350

Earth 31171-10-14 09:07 G 13106319.73 13106319.88 13106320.03 0.2671 0.0449 *

Saturn 31172-05-15 03:21 G 13106533.54 13106533.64 13106533.75 0.0265 0.0173

Saturn 31172-08-11 13:55 G 13106621.95 13106622.08 13106622.22 0.0264 0.0074

Saturn 31172-11-08 00:43 G 13106710.39 13106710.53 13106710.67 0.0264 0.0027

Saturn 31173-02-04 11:31 G 13106798.86 13106798.98 13106799.10 0.0264 0.0129

Jupiter 31173-04-30 06:00 G 13106883.64 13106883.75 13106883.85 0.0520 0.0313

Saturn 31173-05-03 22:33 G 13106887.37 13106887.44 13106887.50 0.0263 0.0231

Jupiter 31173-07-28 12:14 G 13106972.90 13106973.01 13106973.12 0.0517 0.0282

Moon 31174-04-17 23:31 G 13107236.40 13107236.48 13107236.55 0.2667 0.1918

Earth 31174-04-17 23:45 G 13107236.42 13107236.49 13107236.56 0.2660 0.2003 *

Mars 31179-02-13 09:07 G 13108998.82 13108998.88 13108998.94 0.1792 0.1522

Jupiter 31179-09-26 06:00 G 13109223.57 13109223.75 13109223.92 0.0509 0.0095

Venus 31180-12-15 19:26 G 13109670.24 13109670.31 13109670.38 0.3689 0.3096

Moon 31181-04-10 22:48 G 13109786.37 13109786.45 13109786.53 0.2654 0.1872

Earth 31181-04-10 23:02 G 13109786.38 13109786.46 13109786.54 0.2660 0.1832 *

Venus 31182-06-30 03:50 G 13110231.57 13110231.66 13110231.76 0.3682 0.1866

Neptune 31184-07-20 16:48 G 13110983.13 13110983.20 13110983.28 0.0089 0.0080

Neptune 31184-10-16 19:55 G 13111071.23 13111071.33 13111071.45 0.0089 0.0070

Neptune 31185-01-12 23:17 G 13111159.34 13111159.47 13111159.61 0.0089 0.0060

Jupiter 31185-02-16 10:05 G 13111193.87 13111193.92 13111193.99 0.0520 0.0456

Neptune 31185-04-11 02:24 G 13111247.45 13111247.60 13111247.76 0.0089 0.0050

Jupiter 31185-05-16 16:33 G 13111283.06 13111283.19 13111283.31 0.0518 0.0137

Neptune 31185-07-08 05:45 G 13111335.58 13111335.74 13111335.90 0.0089 0.0040

Neptune 31185-10-04 08:53 G 13111423.70 13111423.87 13111424.05 0.0089 0.0030

Neptune 31185-12-31 12:14 G 13111511.83 13111512.01 13111512.19 0.0089 0.0020

Neptune 31186-03-29 15:21 G 13111599.95 13111600.14 13111600.32 0.0089 0.0010

Neptune 31186-06-25 18:29 G 13111688.09 13111688.27 13111688.45 0.0089 0.0001

Venus 31186-07-01 20:09 G 13111694.21 13111694.34 13111694.47 0.3690 0.0138

Neptune 31186-09-21 21:36 G 13111776.22 13111776.40 13111776.58 0.0089 0.0009

Neptune 31186-12-19 00:43 G 13111864.35 13111864.53 13111864.71 0.0089 0.0019

Neptune 31187-03-17 03:36 G 13111952.49 13111952.65 13111952.83 0.0089 0.0029

Neptune 31187-06-13 06:43 G 13112040.63 13112040.78 13112040.96 0.0089 0.0039

Saturn 31187-09-08 19:12 G 13112128.25 13112128.30 13112128.37 0.0296 0.0276

Neptune 31187-09-09 10:05 G 13112128.77 13112128.92 13112129.07 0.0089 0.0048

Mars 31187-09-11 13:55 G 13112130.94 13112131.08 13112131.23 0.1739 0.0549

Neptune 31187-12-06 12:57 G 13112216.91 13112217.04 13112217.19 0.0089 0.0058

Saturn 31187-12-06 18:57 G 13112217.12 13112217.29 13112217.46 0.0297 0.0087 *

Venus 31188-01-13 21:36 G 13112255.29 13112255.40 13112255.52 0.3681 0.0113

Neptune 31188-03-03 15:50 G 13112305.06 13112305.16 13112305.29 0.0089 0.0068

Saturn 31188-03-04 18:00 G 13112306.09 13112306.25 13112306.41 0.0297 0.0100

Neptune 31188-05-30 19:12 G 13112393.22 13112393.30 13112393.39 0.0089 0.0077

Saturn 31188-06-01 16:33 G 13112395.14 13112395.19 13112395.24 0.0298 0.0283

Mars 31188-07-05 17:17 G 13112429.10 13112429.22 13112429.34 0.1800 0.0451

Neptune 31188-08-26 22:05 G 13112481.40 13112481.42 13112481.47 0.0089 0.0087

Jupiter 31191-07-15 03:36 G 13113533.48 13113533.65 13113533.83 0.0508 0.0102

Venus 31192-01-15 20:24 G 13113718.29 13113718.35 13113718.41 0.3690 0.3191

Venus 31193-07-29 15:36 G 13114279.06 13114279.15 13114279.25 0.3680 0.1989

Moon 31194-04-13 16:05 G 13114537.06 13114537.17 13114537.28 0.2659 0.0556

Earth 31194-04-13 16:48 G 13114537.09 13114537.20 13114537.31 0.2660 0.0478 *

Mars 31197-01-31 16:19 G 13115561.05 13115561.18 13115561.32 0.1731 0.0796

Jupiter 31197-03-04 20:38 G 13115593.23 13115593.36 13115593.49 0.0518 0.0016

Mars 31197-11-26 01:26 G 13115859.45 13115859.56 13115859.67 0.1808 0.0648

Saturn 31201-10-02 05:45 G 13117265.66 13117265.74 13117265.83 0.0265 0.0204

Saturn 31201-12-29 16:19 G 13117354.06 13117354.18 13117354.31 0.0265 0.0104

Saturn 31202-03-28 03:07 G 13117442.49 13117442.63 13117442.77 0.0264 0.0004

Saturn 31202-06-24 13:55 G 13117530.95 13117531.08 13117531.21 0.0264 0.0097

Saturn 31202-09-21 00:43 G 13117619.44 13117619.53 13117619.62 0.0264 0.0199

Jupiter 31203-05-03 00:57 G 13117843.40 13117843.54 13117843.68 0.0508 0.0303

Jupiter 31203-08-01 07:55 G 13117933.79 13117933.83 13117933.89 0.0511 0.0485

Moon 31204-10-11 08:24 G 13118370.74 13118370.85 13118370.95 0.2677 0.1940

Earth 31204-10-11 09:21 G 13118370.78 13118370.89 13118371.00 0.2671 0.1849 *

Uranus 31206-10-23 11:02 G 13119112.92 13119112.96 13119113.02 0.0144 0.0132

Uranus 31207-01-19 15:07 G 13119201.05 13119201.13 13119201.22 0.0144 0.0111

Moon 31207-04-16 10:05 G 13119287.81 13119287.92 13119288.02 0.2663 0.0760

Earth 31207-04-16 10:33 G 13119287.84 13119287.94 13119288.05 0.2660 0.0904 *

Uranus 31207-04-17 18:57 G 13119289.19 13119289.29 13119289.41 0.0144 0.0090

Mars 31207-04-18 09:36 G 13119289.87 13119289.90 13119289.94 0.1816 0.1732

Uranus 31207-07-14 23:17 G 13119377.35 13119377.47 13119377.59 0.0144 0.0067

Uranus 31207-10-11 03:21 G 13119465.51 13119465.64 13119465.77 0.0145 0.0045

Uranus 31208-01-07 07:26 G 13119553.67 13119553.81 13119553.95 0.0145 0.0023

Uranus 31208-04-04 11:31 G 13119641.84 13119641.98 13119642.12 0.0145 0.0002

Uranus 31208-07-01 15:36 G 13119730.02 13119730.15 13119730.29 0.0145 0.0022

Uranus 31208-09-27 19:55 G 13119818.20 13119818.33 13119818.46 0.0145 0.0044

Jupiter 31208-12-22 00:43 G 13119903.41 13119903.53 13119903.66 0.0519 0.0155

Uranus 31208-12-25 00:00 G 13119906.38 13119906.50 13119906.63 0.0145 0.0067

Jupiter 31209-03-21 07:12 G 13119992.74 13119992.80 13119992.87 0.0516 0.0439

Uranus 31209-03-23 04:05 G 13119994.57 13119994.67 13119994.79 0.0145 0.0090

Uranus 31209-06-19 08:24 G 13120082.77 13120082.85 13120082.95 0.0145 0.0113

Uranus 31209-09-15 12:43 G 13120170.99 13120171.03 13120171.09 0.0145 0.0136

Jupiter 31215-02-18 22:48 G 13122153.42 13122153.45 13122153.48 0.0507 0.0498

Jupiter 31215-05-20 06:14 G 13122243.62 13122243.76 13122243.90 0.0510 0.0293

Saturn 31217-04-24 18:14 G 13122949.10 13122949.26 13122949.42 0.0297 0.0135

Saturn 31217-07-22 17:31 G 13123038.05 13123038.23 13123038.40 0.0297 0.0053

Moon 31217-10-14 15:21 G 13123122.00 13123122.14 13123122.28 0.2678 0.1019

Earth 31217-10-14 15:36 G 13123122.01 13123122.15 13123122.29 0.2671 0.0985 *

Saturn 31217-10-19 16:05 G 13123127.07 13123127.17 13123127.28 0.0298 0.0238

Mars 31218-08-14 09:21 G 13123425.84 13123425.89 13123425.93 0.1791 0.1667

Moon 31220-04-18 04:19 G 13124038.63 13124038.68 13124038.73 0.2667 0.2340

Earth 31220-04-18 04:33 G 13124038.63 13124038.69 13124038.74 0.2660 0.2290 *

Jupiter 31220-10-10 04:05 G 13124213.57 13124213.67 13124213.78 0.0520 0.0316

Jupiter 31221-01-07 10:33 G 13124302.83 13124302.94 13124303.05 0.0517 0.0277

Pluto 31223-01-17 15:50 G 13125043.13 13125043.16 13125043.24 0.0075 0.0072

Pluto 31223-04-15 18:57 G 13125131.16 13125131.29 13125131.44 0.0074 0.0053

Pluto 31223-07-12 21:36 G 13125219.23 13125219.40 13125219.58 0.0074 0.0034

Pluto 31223-10-09 00:14 G 13125307.32 13125307.51 13125307.71 0.0074 0.0016

Pluto 31224-01-05 03:07 G 13125395.43 13125395.63 13125395.83 0.0074 0.0002

Pluto 31224-04-02 05:31 G 13125483.54 13125483.73 13125483.93 0.0074 0.0020

Pluto 31224-06-29 07:55 G 13125571.67 13125571.83 13125572.01 0.0074 0.0038

Pluto 31224-09-25 10:19 G 13125659.82 13125659.93 13125660.08 0.0074 0.0056

Pluto 31224-12-22 12:57 G 13125748.04 13125748.04 13125748.07 0.0074 0.0073

Jupiter 31227-03-08 04:19 G 13126553.50 13126553.68 13126553.85 0.0509 0.0100

Mars 31227-03-12 14:38 G 13126557.97 13126558.11 13126558.24 0.1739 0.0745

Moon 31227-04-12 03:36 G 13126588.56 13126588.65 13126588.73 0.2655 0.1629

Earth 31227-04-12 03:50 G 13126588.57 13126588.66 13126588.75 0.2660 0.1552 *

Mars 31228-01-04 17:17 G 13126856.10 13126856.22 13126856.34 0.1800 0.0576

Saturn 31231-02-19 09:36 G 13127997.83 13127997.90 13127997.97 0.0265 0.0222

Saturn 31231-05-18 19:55 G 13128086.21 13128086.33 13128086.46 0.0264 0.0123

Saturn 31231-08-15 06:43 G 13128174.64 13128174.78 13128174.91 0.0264 0.0024

Saturn 31231-11-11 17:17 G 13128263.09 13128263.22 13128263.35 0.0264 0.0078

Saturn 31232-02-08 04:05 G 13128351.57 13128351.67 13128351.78 0.0263 0.0179

Jupiter 31232-07-29 08:09 G 13128523.79 13128523.84 13128523.90 0.0521 0.0464

Jupiter 31232-10-26 14:24 G 13128612.98 13128613.10 13128613.23 0.0518 0.0129

Venus 31233-07-21 08:24 G 13128880.79 13128880.85 13128880.91 0.3682 0.3063

Mars 31236-08-01 16:33 G 13129988.05 13129988.19 13129988.34 0.1731 0.0630

Mars 31237-05-27 01:41 G 13130286.45 13130286.57 13130286.68 0.1808 0.0502

Venus 31237-07-22 19:26 G 13130343.19 13130343.31 13130343.42 0.3689 0.2008

Jupiter 31238-12-25 01:26 G 13130863.38 13130863.56 13130863.73 0.0508 0.0104

Venus 31239-02-04 01:55 G 13130904.47 13130904.58 13130904.68 0.3682 0.1218

Moon 31240-04-13 20:53 G 13131339.26 13131339.37 13131339.48 0.2659 0.0314

Earth 31240-04-13 21:36 G 13131339.29 13131339.40 13131339.51 0.2660 0.0206 *

Venus 31243-02-05 19:55 G 13132367.21 13132367.33 13132367.46 0.3690 0.1192

Jupiter 31244-08-14 18:43 G 13132923.15 13132923.28 13132923.41 0.0519 0.0016

Venus 31244-08-19 19:41 G 13132928.21 13132928.32 13132928.43 0.3681 0.0708

Saturn 31246-09-11 17:17 G 13133681.09 13133681.22 13133681.37 0.0297 0.0186

Mars 31246-10-17 09:50 G 13133716.85 13133716.91 13133716.97 0.1816 0.1589

Saturn 31246-12-09 16:48 G 13133770.03 13133770.20 13133770.38 0.0297 0.0005

Saturn 31247-03-08 15:36 G 13133859.02 13133859.15 13133859.29 0.0298 0.0189

Uranus 31248-02-21 04:33 G 13134208.63 13134208.69 13134208.78 0.0134 0.0121

Uranus 31248-05-19 10:48 G 13134296.84 13134296.95 13134297.09 0.0134 0.0098

Uranus 31248-08-15 17:02 G 13134385.08 13134385.21 13134385.38 0.0134 0.0075

Uranus 31248-11-11 23:17 G 13134473.32 13134473.47 13134473.65 0.0134 0.0052

Uranus 31249-02-08 05:31 G 13134561.56 13134561.73 13134561.91 0.0134 0.0029

Uranus 31249-05-07 11:45 G 13134649.81 13134649.99 13134650.17 0.0134 0.0006

Uranus 31249-08-03 17:45 G 13134738.07 13134738.24 13134738.42 0.0134 0.0017

Uranus 31249-10-30 23:45 G 13134826.32 13134826.49 13134826.66 0.0133 0.0039

Uranus 31250-01-27 05:31 G 13134914.58 13134914.73 13134914.90 0.0133 0.0062

Venus 31250-03-05 13:41 G 13134952.00 13134952.07 13134952.15 0.3680 0.2674

Uranus 31250-04-25 11:31 G 13135002.85 13135002.98 13135003.12 0.0133 0.0083

Uranus 31250-07-22 17:17 G 13135091.12 13135091.22 13135091.34 0.0133 0.0105

Moon 31250-10-12 15:07 G 13135173.00 13135173.13 13135173.25 0.2678 0.1464

Earth 31250-10-12 15:50 G 13135173.02 13135173.16 13135173.29 0.2671 0.1298 *

Jupiter 31250-10-12 22:48 G 13135173.31 13135173.45 13135173.60 0.0507 0.0303

Uranus 31250-10-18 23:17 G 13135179.42 13135179.47 13135179.52 0.0133 0.0127

Jupiter 31251-01-11 06:00 G 13135263.70 13135263.75 13135263.80 0.0510 0.0483

Moon 31253-04-16 14:53 G 13136090.02 13136090.12 13136090.22 0.2665 0.1151

Earth 31253-04-16 15:21 G 13136090.04 13136090.14 13136090.24 0.2660 0.1185 *

Jupiter 31256-06-02 23:02 G 13137233.34 13137233.46 13137233.59 0.0519 0.0158

Jupiter 31256-08-31 05:31 G 13137322.67 13137322.73 13137322.81 0.0516 0.0438

Earth 31260-04-09 15:07 G 13138640.11 13138640.13 13138640.15 0.2660 0.2606

Saturn 31260-07-08 11:45 G 13138729.96 13138729.99 13138730.03 0.0265 0.0254

Saturn 31260-10-04 22:19 G 13138818.32 13138818.43 13138818.54 0.0265 0.0155

Saturn 31261-01-01 08:53 G 13138906.73 13138906.87 13138907.00 0.0264 0.0056

Saturn 31261-03-30 19:26 G 13138995.18 13138995.31 13138995.45 0.0264 0.0045

Saturn 31261-06-27 06:14 G 13139083.65 13139083.76 13139083.88 0.0264 0.0146

Saturn 31261-09-23 17:02 G 13139172.17 13139172.21 13139172.26 0.0263 0.0248

Jupiter 31262-07-31 20:09 G 13139483.33 13139483.34 13139483.36 0.0507 0.0504

Jupiter 31262-10-30 03:50 G 13139573.52 13139573.66 13139573.80 0.0510 0.0288

Earth 31263-10-15 22:05 G 13139924.29 13139924.42 13139924.54 0.2671 0.1517

Moon 31263-10-15 22:19 G 13139924.30 13139924.43 13139924.55 0.2678 0.1545 *

Neptune 31265-02-03 02:09 G 13140400.55 13140400.59 13140400.64 0.0088 0.0082

Neptune 31265-05-02 03:21 G 13140488.58 13140488.64 13140488.72 0.0088 0.0076

Neptune 31265-07-29 04:48 G 13140576.63 13140576.70 13140576.80 0.0088 0.0069

Neptune 31265-10-25 06:14 G 13140664.67 13140664.76 13140664.87 0.0088 0.0062

Neptune 31266-01-21 07:41 G 13140752.72 13140752.82 13140752.94 0.0088 0.0054

Neptune 31266-04-19 09:21 G 13140840.77 13140840.89 13140841.01 0.0088 0.0047

Moon 31266-04-19 09:21 G 13140840.85 13140840.89 13140840.92 0.2667 0.2518 *

Earth 31266-04-19 09:21 G 13140840.87 13140840.89 13140840.91 0.2660 0.2580 *

Neptune 31266-07-16 10:48 G 13140928.83 13140928.95 13140929.07 0.0088 0.0040

Mars 31266-09-10 15:07 G 13140985.00 13140985.13 13140985.26 0.1739 0.0927

Neptune 31266-10-12 12:14 G 13141016.88 13141017.01 13141017.14 0.0088 0.0032

Neptune 31267-01-08 13:41 G 13141104.94 13141105.07 13141105.20 0.0088 0.0025

Neptune 31267-04-06 15:07 G 13141193.00 13141193.13 13141193.27 0.0088 0.0018

Neptune 31267-07-03 16:33 G 13141281.05 13141281.19 13141281.33 0.0088 0.0011

Mars 31267-07-05 17:31 G 13141283.11 13141283.23 13141283.34 0.1799 0.0730

Neptune 31267-09-29 18:00 G 13141369.11 13141369.25 13141369.39 0.0088 0.0004

Neptune 31267-12-26 19:26 G 13141457.18 13141457.31 13141457.45 0.0088 0.0005

Jupiter 31268-03-22 03:21 G 13141543.53 13141543.64 13141543.74 0.0519 0.0303

Neptune 31268-03-23 20:53 G 13141545.24 13141545.37 13141545.51 0.0088 0.0012

Jupiter 31268-06-19 09:36 G 13141632.80 13141632.90 13141633.01 0.0517 0.0290

Neptune 31268-06-19 22:33 G 13141633.30 13141633.44 13141633.57 0.0088 0.0019

Neptune 31268-09-15 23:45 G 13141721.37 13141721.49 13141721.63 0.0088 0.0027

Neptune 31268-12-13 01:26 G 13141809.43 13141809.56 13141809.69 0.0088 0.0033

Neptune 31269-03-11 02:53 G 13141897.50 13141897.62 13141897.75 0.0088 0.0041

Neptune 31269-06-07 04:19 G 13141985.57 13141985.68 13141985.80 0.0088 0.0048

Neptune 31269-09-03 05:45 G 13142073.64 13142073.74 13142073.86 0.0088 0.0056

Neptune 31269-11-30 07:12 G 13142161.71 13142161.80 13142161.91 0.0088 0.0063

Neptune 31270-02-26 08:53 G 13142249.79 13142249.87 13142249.96 0.0088 0.0070

Neptune 31270-05-25 10:33 G 13142337.87 13142337.94 13142338.00 0.0088 0.0078

Neptune 31270-08-21 11:45 G 13142425.97 13142425.99 13142426.03 0.0088 0.0085

Moon 31273-04-12 08:09 G 13143390.74 13143390.84 13143390.94 0.2656 0.1305

Earth 31273-04-12 08:38 G 13143390.77 13143390.86 13143390.96 0.2660 0.1275 *

Jupiter 31274-08-18 02:09 G 13143883.41 13143883.59 13143883.76 0.0509 0.0099

Saturn 31276-01-29 15:36 G 13144413.05 13144413.15 13144413.25 0.0296 0.0242

Mars 31276-01-31 17:17 G 13144415.08 13144415.22 13144415.37 0.1731 0.0427

Saturn 31276-04-27 15:07 G 13144501.96 13144502.13 13144502.31 0.0297 0.0052

Saturn 31276-07-25 14:09 G 13144590.94 13144591.09 13144591.25 0.0297 0.0136

Mars 31276-11-25 01:41 G 13144713.45 13144713.57 13144713.68 0.1808 0.0371

Jupiter 31280-01-09 06:43 G 13145853.72 13145853.78 13145853.84 0.0520 0.0464

Jupiter 31280-04-07 12:57 G 13145942.91 13145943.04 13145943.17 0.0518 0.0128

Moon 31286-04-15 01:41 G 13148141.46 13148141.57 13148141.68 0.2660 0.0086

Earth 31286-04-15 02:24 G 13148141.49 13148141.60 13148141.71 0.2660 0.0124 *

Mars 31286-04-17 09:50 G 13148143.84 13148143.91 13148143.98 0.1816 0.1456

Jupiter 31286-06-06 00:14 G 13148193.33 13148193.51 13148193.68 0.0508 0.0094

Saturn 31290-02-22 01:41 G 13149550.47 13149550.57 13149550.67 0.0265 0.0176

Venus 31290-02-25 06:14 G 13149553.68 13149553.76 13149553.84 0.3682 0.2437

Saturn 31290-05-21 12:14 G 13149638.88 13149639.01 13149639.14 0.0264 0.0077

Saturn 31290-08-17 22:48 G 13149727.31 13149727.45 13149727.59 0.0264 0.0024

Uranus 31290-11-12 18:14 G 13149814.20 13149814.26 13149814.32 0.0144 0.0128

Saturn 31290-11-14 09:36 G 13149815.78 13149815.90 13149816.02 0.0263 0.0125

Uranus 31291-02-08 22:05 G 13149902.34 13149902.42 13149902.52 0.0144 0.0107

Saturn 31291-02-10 20:24 G 13149904.29 13149904.35 13149904.42 0.0263 0.0226

Uranus 31291-05-08 02:09 G 13149990.48 13149990.59 13149990.70 0.0144 0.0085

Uranus 31291-08-04 06:14 G 13150078.64 13150078.76 13150078.89 0.0144 0.0063

Uranus 31291-10-31 10:19 G 13150166.80 13150166.93 13150167.06 0.0145 0.0041

Jupiter 31292-01-25 17:02 G 13150253.08 13150253.21 13150253.34 0.0519 0.0025

Uranus 31292-01-27 14:24 G 13150254.96 13150255.10 13150255.24 0.0145 0.0019

Uranus 31292-04-24 18:29 G 13150343.13 13150343.27 13150343.41 0.0145 0.0005

Uranus 31292-07-21 22:48 G 13150431.31 13150431.45 13150431.58 0.0145 0.0026

Uranus 31292-10-18 02:53 G 13150519.49 13150519.62 13150519.75 0.0145 0.0048

Uranus 31293-01-14 07:12 G 13150607.68 13150607.80 13150607.92 0.0145 0.0071

Uranus 31293-04-12 11:17 G 13150695.87 13150695.97 13150696.08 0.0145 0.0094

Uranus 31293-07-09 15:36 G 13150784.07 13150784.15 13150784.23 0.0145 0.0117

Uranus 31293-10-05 19:55 G 13150872.30 13150872.33 13150872.37 0.0145 0.0140

Venus 31294-02-26 19:12 G 13151016.17 13151016.30 13151016.43 0.3689 0.0927

Venus 31295-09-11 00:00 G 13151577.39 13151577.50 13151577.61 0.3681 0.0568

Moon 31296-10-12 21:36 G 13151975.26 13151975.40 13151975.55 0.2678 0.0761

Earth 31296-10-12 22:19 G 13151975.28 13151975.43 13151975.58 0.2671 0.0746 *

Jupiter 31298-03-24 21:07 G 13152503.24 13152503.38 13152503.53 0.0507 0.0297

Jupiter 31298-06-23 04:05 G 13152593.63 13152593.67 13152593.73 0.0510 0.0488

Moon 31299-04-17 19:55 G 13152892.23 13152892.33 13152892.42 0.2666 0.1397

Earth 31299-04-17 20:24 G 13152892.25 13152892.35 13152892.44 0.2660 0.1472 *

Venus 31299-09-12 19:41 G 13153040.21 13153040.32 13153040.42 0.3690 0.2204

Venus 31301-03-27 17:45 G 13153601.14 13153601.24 13153601.35 0.3681 0.1376

Jupiter 31303-11-14 21:21 G 13154563.26 13154563.39 13154563.51 0.0519 0.0165

Jupiter 31304-02-12 03:50 G 13154652.59 13154652.66 13154652.73 0.0517 0.0432

Saturn 31305-09-15 13:55 G 13155233.92 13155234.08 13155234.25 0.0297 0.0106

Saturn 31305-12-13 13:12 G 13155322.88 13155323.05 13155323.22 0.0298 0.0082

Saturn 31306-03-12 11:45 G 13155411.92 13155411.99 13155412.07 0.0298 0.0267

Mars 31306-03-12 15:36 G 13155412.03 13155412.15 13155412.26 0.1739 0.1109 *

Moon 31306-04-11 19:41 G 13155442.27 13155442.32 13155442.38 0.2653 0.2284

Earth 31306-04-11 19:55 G 13155442.28 13155442.33 13155442.38 0.2660 0.2332 *

Venus 31306-10-11 12:00 G 13155624.96 13155625.00 13155625.04 0.3680 0.3374

Mars 31307-01-04 17:31 G 13155710.12 13155710.23 13155710.34 0.1799 0.0872

Earth 31309-10-17 04:33 G 13156726.59 13156726.69 13156726.79 0.2671 0.2056

Moon 31309-10-17 05:02 G 13156726.62 13156726.71 13156726.81 0.2677 0.2105 *

Jupiter 31310-01-11 18:43 G 13156813.25 13156813.28 13156813.31 0.0506 0.0495

Jupiter 31310-04-12 02:09 G 13156903.45 13156903.59 13156903.73 0.0509 0.0294

Mars 31315-08-02 18:00 G 13158842.09 13158842.25 13158842.40 0.1731 0.0243

Jupiter 31315-09-03 01:41 G 13158873.47 13158873.57 13158873.68 0.0520 0.0303

Jupiter 31315-12-01 08:09 G 13158962.73 13158962.84 13158962.95 0.0517 0.0291

Mars 31316-05-27 01:41 G 13159140.45 13159140.57 13159140.69 0.1807 0.0227

Moon 31319-04-14 12:57 G 13160192.94 13160193.04 13160193.14 0.2657 0.1134

Earth 31319-04-14 13:41 G 13160192.96 13160193.07 13160193.17 0.2660 0.0991 *

Saturn 31319-07-13 03:50 G 13160282.58 13160282.66 13160282.74 0.0265 0.0209

Saturn 31319-10-09 14:24 G 13160370.98 13160371.10 13160371.22 0.0264 0.0110

Saturn 31320-01-06 00:57 G 13160459.40 13160459.54 13160459.68 0.0264 0.0010

Saturn 31320-04-03 11:31 G 13160547.86 13160547.98 13160548.11 0.0264 0.0091

Saturn 31320-06-30 22:19 G 13160636.34 13160636.43 13160636.53 0.0263 0.0192

Jupiter 31322-01-29 00:00 G 13161213.32 13161213.50 13161213.67 0.0509 0.0098

Mars 31324-12-22 19:55 G 13162272.28 13162272.33 13162272.39 0.1723 0.1601

Mars 31325-10-17 09:50 G 13162570.83 13162570.91 13162571.00 0.1816 0.1310

Jupiter 31327-06-22 06:00 G 13163183.69 13163183.75 13163183.82 0.0520 0.0447

Jupiter 31327-09-19 12:14 G 13163272.89 13163273.01 13163273.14 0.0518 0.0145

Uranus 31332-03-13 11:45 G 13164909.91 13164909.99 13164910.09 0.0134 0.0115

Moon 31332-04-16 06:43 G 13164943.67 13164943.78 13164943.89 0.2661 0.0313

Earth 31332-04-16 07:26 G 13164943.70 13164943.81 13164943.92 0.2660 0.0391 *

Uranus 31332-06-09 18:00 G 13164998.13 13164998.25 13164998.39 0.0134 0.0092

Uranus 31332-09-06 00:14 G 13165086.36 13165086.51 13165086.67 0.0134 0.0069

Uranus 31332-12-03 06:29 G 13165174.61 13165174.77 13165174.94 0.0134 0.0046

Uranus 31333-03-01 12:43 G 13165262.85 13165263.03 13165263.21 0.0134 0.0023

Uranus 31333-05-28 18:43 G 13165351.10 13165351.28 13165351.46 0.0133 0.0003

Uranus 31333-08-25 00:43 G 13165439.36 13165439.53 13165439.71 0.0133 0.0023

Jupiter 31333-11-16 22:19 G 13165523.25 13165523.43 13165523.60 0.0508 0.0092

Uranus 31333-11-21 06:43 G 13165527.62 13165527.78 13165527.95 0.0133 0.0045

Uranus 31334-02-17 12:29 G 13165615.88 13165616.02 13165616.18 0.0133 0.0067

Uranus 31334-05-16 18:43 G 13165704.15 13165704.28 13165704.41 0.0133 0.0089

Uranus 31334-08-13 00:14 G 13165792.42 13165792.51 13165792.62 0.0133 0.0111

Uranus 31334-11-09 06:00 G 13165880.74 13165880.75 13165880.78 0.0133 0.0132

Saturn 31335-02-02 11:02 G 13165965.82 13165965.96 13165966.11 0.0297 0.0170

Saturn 31335-05-02 10:33 G 13166054.77 13166054.94 13166055.12 0.0297 0.0022

Saturn 31335-07-30 09:36 G 13166143.78 13166143.90 13166144.03 0.0298 0.0206

Jupiter 31339-07-08 15:36 G 13167583.02 13167583.15 13167583.28 0.0518 0.0018

Venus 31341-03-19 10:33 G 13168202.93 13168202.94 13168202.96 0.3682 0.3626

Moon 31342-10-15 04:19 G 13168777.53 13168777.68 13168777.84 0.2678 0.0357

Earth 31342-10-15 04:48 G 13168777.55 13168777.70 13168777.86 0.2672 0.0210 *

Venus 31345-03-20 18:14 G 13169665.19 13169665.26 13169665.33 0.3689 0.3123

Moon 31345-04-19 00:43 G 13169694.45 13169694.53 13169694.61 0.2666 0.1707

Earth 31345-04-19 01:12 G 13169694.46 13169694.55 13169694.63 0.2660 0.1756 *

Jupiter 31345-09-04 20:09 G 13169833.20 13169833.34 13169833.50 0.0507 0.0281

Mars 31345-09-10 16:05 G 13169839.07 13169839.17 13169839.27 0.1739 0.1302

Jupiter 31345-12-04 03:21 G 13169923.62 13169923.64 13169923.66 0.0510 0.0504

Mars 31346-07-05 17:31 G 13170137.13 13170137.23 13170137.33 0.1799 0.1010

Venus 31346-10-03 04:19 G 13170226.58 13170226.68 13170226.77 0.3682 0.1793

Saturn 31348-11-29 06:57 G 13171014.73 13171014.79 13171014.86 0.0265 0.0232

Neptune 31349-01-19 12:00 G 13171065.98 13171066.00 13171066.07 0.0089 0.0086

Saturn 31349-02-25 17:31 G 13171103.11 13171103.23 13171103.35 0.0264 0.0133

Neptune 31349-04-17 15:21 G 13171154.06 13171154.14 13171154.25 0.0089 0.0076

Saturn 31349-05-25 04:05 G 13171191.53 13171191.67 13171191.80 0.0264 0.0034

Neptune 31349-07-14 18:29 G 13171242.17 13171242.27 13171242.42 0.0089 0.0066

Saturn 31349-08-21 14:38 G 13171279.98 13171280.11 13171280.25 0.0263 0.0067

Neptune 31349-10-10 22:19 G 13171330.28 13171330.43 13171330.57 0.0089 0.0055

Saturn 31349-11-18 01:26 G 13171368.46 13171368.56 13171368.67 0.0263 0.0168

Neptune 31350-01-07 01:26 G 13171418.40 13171418.56 13171418.72 0.0089 0.0045

Neptune 31350-04-05 04:48 G 13171506.53 13171506.70 13171506.87 0.0089 0.0035

Neptune 31350-07-02 07:55 G 13171594.65 13171594.83 13171595.01 0.0089 0.0025

Neptune 31350-09-28 11:02 G 13171682.78 13171682.96 13171683.14 0.0089 0.0016

Venus 31350-10-04 19:12 G 13171689.16 13171689.30 13171689.43 0.3689 0.0160

Neptune 31350-12-25 14:09 G 13171770.91 13171771.09 13171771.28 0.0089 0.0006

Neptune 31351-03-23 17:17 G 13171859.04 13171859.22 13171859.41 0.0089 0.0005

Jupiter 31351-04-26 19:41 G 13171893.19 13171893.32 13171893.44 0.0519 0.0166

Neptune 31351-06-19 20:38 G 13171947.18 13171947.36 13171947.54 0.0089 0.0014

Jupiter 31351-07-25 02:09 G 13171982.52 13171982.59 13171982.66 0.0516 0.0430

Neptune 31351-09-15 23:31 G 13172035.31 13172035.48 13172035.66 0.0089 0.0024

Neptune 31351-12-13 02:38 G 13172123.45 13172123.61 13172123.79 0.0089 0.0034

Neptune 31352-03-10 05:31 G 13172211.59 13172211.73 13172211.91 0.0089 0.0044

Moon 31352-04-12 00:29 G 13172244.45 13172244.52 13172244.58 0.2654 0.2140

Earth 31352-04-12 00:43 G 13172244.46 13172244.53 13172244.60 0.2659 0.2055 *

Venus 31352-04-17 22:05 G 13172250.30 13172250.42 13172250.53 0.3681 0.0151

Neptune 31352-06-06 08:53 G 13172299.73 13172299.87 13172300.02 0.0089 0.0053

Neptune 31352-09-02 11:45 G 13172387.88 13172387.99 13172388.13 0.0089 0.0064

Neptune 31352-11-29 14:53 G 13172476.03 13172476.12 13172476.24 0.0089 0.0073

Neptune 31353-02-25 18:00 G 13172564.20 13172564.25 13172564.33 0.0089 0.0083

Mars 31355-01-31 18:14 G 13173269.11 13173269.26 13173269.41 0.1731 0.0066

Earth 31355-10-18 11:02 G 13173528.92 13173528.96 13173528.99 0.2671 0.2587

Mars 31355-11-26 01:41 G 13173567.45 13173567.57 13173567.70 0.1807 0.0096

Venus 31356-04-19 19:26 G 13173713.25 13173713.31 13173713.37 0.3690 0.3229

Jupiter 31357-06-23 17:17 G 13174143.18 13174143.22 13174143.28 0.0506 0.0484

Jupiter 31357-09-22 00:57 G 13174233.40 13174233.54 13174233.68 0.0509 0.0305

Venus 31357-11-01 15:50 G 13174274.07 13174274.16 13174274.26 0.3680 0.2073

Jupiter 31363-02-13 00:00 G 13176203.40 13176203.50 13176203.60 0.0520 0.0307

Jupiter 31363-05-13 06:29 G 13176292.66 13176292.77 13176292.88 0.0517 0.0288

Saturn 31364-06-21 09:50 G 13176697.79 13176697.91 13176698.02 0.0297 0.0226

Mars 31364-06-22 20:24 G 13176699.27 13176699.35 13176699.44 0.1724 0.1415

Saturn 31364-09-18 09:21 G 13176786.71 13176786.89 13176787.06 0.0297 0.0036

Saturn 31364-12-16 08:24 G 13176875.70 13176875.85 13176876.00 0.0298 0.0152

Moon 31365-04-14 17:45 G 13176995.13 13176995.24 13176995.34 0.2657 0.0742

Earth 31365-04-14 18:29 G 13176995.16 13176995.27 13176995.37 0.2660 0.0715 *

Mars 31365-04-17 09:50 G 13176997.82 13176997.91 13176998.00 0.1815 0.1176

Jupiter 31369-07-10 22:48 G 13178543.27 13178543.45 13178543.62 0.0508 0.0111

Jupiter 31374-12-02 04:33 G 13180513.63 13180513.69 13180513.76 0.0521 0.0445

Uranus 31374-12-04 00:43 G 13180515.47 13180515.53 13180515.60 0.0144 0.0125

Jupiter 31375-03-01 10:48 G 13180602.83 13180602.95 13180603.08 0.0518 0.0148

Uranus 31375-03-02 04:48 G 13180603.61 13180603.70 13180603.80 0.0144 0.0104

Uranus 31375-05-29 08:53 G 13180691.76 13180691.87 13180691.99 0.0145 0.0082

Uranus 31375-08-25 12:57 G 13180779.92 13180780.04 13180780.17 0.0145 0.0060

Earth 31375-10-13 04:48 G 13180828.66 13180828.70 13180828.75 0.2672 0.2525

Uranus 31375-11-21 17:02 G 13180868.08 13180868.21 13180868.34 0.0145 0.0038

Uranus 31376-02-17 21:07 G 13180956.24 13180956.38 13180956.52 0.0145 0.0016

Uranus 31376-05-16 01:12 G 13181044.41 13181044.55 13181044.69 0.0145 0.0007

Uranus 31376-08-12 05:31 G 13181132.59 13181132.73 13181132.86 0.0145 0.0029

Uranus 31376-11-08 09:36 G 13181220.77 13181220.90 13181221.03 0.0145 0.0051

Uranus 31377-02-04 13:41 G 13181308.96 13181309.07 13181309.20 0.0145 0.0074

Uranus 31377-05-03 18:00 G 13181397.15 13181397.25 13181397.36 0.0145 0.0097

Uranus 31377-07-30 22:19 G 13181485.35 13181485.43 13181485.51 0.0145 0.0120

Uranus 31377-10-27 02:38 G 13181573.59 13181573.61 13181573.63 0.0145 0.0143

Moon 31378-04-17 11:31 G 13181745.87 13181745.98 13181746.09 0.2663 0.0524

Earth 31378-04-17 12:14 G 13181745.90 13181746.01 13181746.11 0.2660 0.0668 *

Saturn 31378-07-15 19:26 G 13181835.21 13181835.31 13181835.42 0.0264 0.0167

Saturn 31378-10-12 06:00 G 13181923.62 13181923.75 13181923.88 0.0264 0.0068

Saturn 31379-01-08 16:33 G 13182012.05 13182012.19 13182012.33 0.0263 0.0032

Saturn 31379-04-07 03:07 G 13182100.52 13182100.63 13182100.76 0.0263 0.0133

Saturn 31379-07-04 14:09 G 13182189.03 13182189.09 13182189.15 0.0263 0.0234

Jupiter 31381-04-28 20:24 G 13182853.18 13182853.35 13182853.53 0.0508 0.0086

Pluto 31383-07-29 02:09 G 13183674.55 13183674.59 13183674.63 0.0069 0.0066

Pluto 31383-10-25 02:24 G 13183762.53 13183762.60 13183762.68 0.0070 0.0056

Pluto 31384-01-21 02:53 G 13183850.54 13183850.62 13183850.73 0.0070 0.0047

Pluto 31384-04-18 03:36 G 13183938.55 13183938.65 13183938.77 0.0070 0.0037

Pluto 31384-07-15 04:05 G 13184026.56 13184026.67 13184026.80 0.0070 0.0027

Pluto 31384-10-11 04:48 G 13184114.57 13184114.70 13184114.83 0.0070 0.0017

Pluto 31385-01-07 05:17 G 13184202.59 13184202.72 13184202.85 0.0070 0.0007

Mars 31385-03-11 16:33 G 13184266.11 13184266.19 13184266.27 0.1739 0.1483

Pluto 31385-04-05 06:00 G 13184290.62 13184290.75 13184290.88 0.0070 0.0003

Pluto 31385-07-02 06:29 G 13184378.64 13184378.77 13184378.90 0.0070 0.0013

Pluto 31385-09-28 06:57 G 13184466.67 13184466.79 13184466.92 0.0070 0.0024

Pluto 31385-12-25 07:41 G 13184554.71 13184554.82 13184554.93 0.0071 0.0034

Mars 31386-01-03 17:31 G 13184564.14 13184564.23 13184564.33 0.1799 0.1156

Pluto 31386-03-23 08:09 G 13184642.74 13184642.84 13184642.95 0.0071 0.0044

Pluto 31386-06-19 08:38 G 13184730.79 13184730.86 13184730.95 0.0071 0.0055

Pluto 31386-09-15 09:21 G 13184818.85 13184818.89 13184818.94 0.0071 0.0065

Jupiter 31386-12-18 15:07 G 13184913.00 13184913.13 13184913.26 0.0518 0.0005

Moon 31388-10-15 11:17 G 13185579.82 13185579.97 13185580.12 0.2678 0.0425

Earth 31388-10-15 11:31 G 13185579.82 13185579.98 13185580.13 0.2672 0.0349 *

Moon 31391-04-20 05:45 G 13186496.66 13186496.74 13186496.81 0.2666 0.2020

Earth 31391-04-20 06:00 G 13186496.68 13186496.75 13186496.82 0.2660 0.2045 *

Jupiter 31393-02-14 18:43 G 13187163.13 13187163.28 13187163.43 0.0507 0.0274

Saturn 31394-02-05 05:31 G 13187518.57 13187518.73 13187518.90 0.0297 0.0108

Saturn 31394-05-05 04:48 G 13187607.53 13187607.70 13187607.87 0.0297 0.0082

Mars 31394-08-01 18:57 G 13187696.13 13187696.29 13187696.44 0.1731 0.0135

Saturn 31394-08-02 03:36 G 13187696.58 13187696.65 13187696.73 0.0298 0.0267

Mars 31395-05-27 01:41 G 13187994.45 13187994.57 13187994.69 0.1807 0.0066

Venus 31397-10-24 08:38 G 13188875.80 13188875.86 13188875.92 0.3682 0.2990

Moon 31398-04-13 05:02 G 13189046.63 13189046.71 13189046.79 0.2654 0.1791

Earth 31398-04-13 05:31 G 13189046.65 13189046.73 13189046.81 0.2659 0.1778 *

Jupiter 31398-10-06 18:29 G 13189223.15 13189223.27 13189223.40 0.0519 0.0158

Jupiter 31399-01-04 00:57 G 13189312.48 13189312.54 13189312.61 0.0516 0.0438

Venus 31401-10-26 18:14 G 13190338.15 13190338.26 13190338.37 0.3689 0.2013

Venus 31403-05-11 02:09 G 13190899.49 13190899.59 13190899.70 0.3681 0.1137

Mars 31403-12-23 21:07 G 13191126.27 13191126.38 13191126.49 0.1723 0.1224

Mars 31404-10-17 10:05 G 13191424.82 13191424.92 13191425.02 0.1815 0.1033

Jupiter 31404-12-04 16:48 G 13191473.13 13191473.20 13191473.28 0.0507 0.0463

Jupiter 31405-03-05 00:29 G 13191563.38 13191563.52 13191563.65 0.0509 0.0327

Venus 31407-05-12 18:57 G 13192362.17 13192362.29 13192362.42 0.3690 0.1203

Saturn 31407-12-03 22:19 G 13192567.34 13192567.43 13192567.53 0.0265 0.0193

Saturn 31408-03-01 08:53 G 13192655.74 13192655.87 13192656.00 0.0264 0.0094

Saturn 31408-05-28 19:26 G 13192744.17 13192744.31 13192744.45 0.0264 0.0007

Saturn 31408-08-25 06:00 G 13192832.63 13192832.75 13192832.88 0.0263 0.0108

Saturn 31408-11-21 16:48 G 13192921.12 13192921.20 13192921.29 0.0263 0.0209

Venus 31408-11-23 20:09 G 13192923.23 13192923.34 13192923.45 0.3681 0.0795

Jupiter 31410-07-26 22:33 G 13193533.34 13193533.44 13193533.55 0.0520 0.0305

Jupiter 31410-10-24 05:02 G 13193622.60 13193622.71 13193622.82 0.0517 0.0289

Moon 31411-04-16 22:33 G 13193797.33 13193797.44 13193797.55 0.2657 0.0583

Earth 31411-04-16 23:17 G 13193797.36 13193797.47 13193797.58 0.2659 0.0432 *

Venus 31414-06-09 14:09 G 13194947.01 13194947.09 13194947.16 0.3680 0.2768

Uranus 31416-01-06 12:29 G 13195523.01 13195523.02 13195523.06 0.0134 0.0132

Uranus 31416-04-03 18:43 G 13195611.19 13195611.28 13195611.40 0.0134 0.0109

Uranus 31416-07-01 00:57 G 13195699.42 13195699.54 13195699.70 0.0134 0.0086

Uranus 31416-09-27 07:26 G 13195787.66 13195787.81 13195787.98 0.0134 0.0062

Jupiter 31416-12-21 21:50 G 13195873.24 13195873.41 13195873.59 0.0508 0.0128

Uranus 31416-12-24 13:41 G 13195875.90 13195876.07 13195876.24 0.0134 0.0039

Uranus 31417-03-22 19:55 G 13195964.15 13195964.33 13195964.51 0.0134 0.0017

Uranus 31417-06-19 01:55 G 13196052.40 13196052.58 13196052.76 0.0133 0.0006

Uranus 31417-09-15 07:55 G 13196140.66 13196140.83 13196141.01 0.0133 0.0029

Uranus 31417-12-12 13:41 G 13196228.92 13196229.07 13196229.25 0.0133 0.0052

Uranus 31418-03-10 19:41 G 13196317.18 13196317.32 13196317.48 0.0133 0.0073

Uranus 31418-06-07 01:26 G 13196405.45 13196405.56 13196405.70 0.0133 0.0095

Uranus 31418-09-03 07:26 G 13196493.73 13196493.81 13196493.90 0.0133 0.0117

Moon 31421-10-14 10:19 G 13197630.84 13197630.93 13197631.03 0.2677 0.2034

Earth 31421-10-14 11:31 G 13197630.88 13197630.98 13197631.08 0.2672 0.1963 *

Jupiter 31422-05-15 02:53 G 13197843.56 13197843.62 13197843.69 0.0521 0.0447

Jupiter 31422-08-12 09:21 G 13197932.76 13197932.89 13197933.01 0.0518 0.0147

Saturn 31423-06-26 03:36 G 13198250.51 13198250.65 13198250.80 0.0297 0.0167

Saturn 31423-09-23 03:07 G 13198339.46 13198339.63 13198339.81 0.0298 0.0024

Saturn 31423-12-21 02:09 G 13198428.47 13198428.59 13198428.71 0.0298 0.0210

Moon 31424-04-18 16:19 G 13198548.08 13198548.18 13198548.28 0.2664 0.0918

Earth 31424-04-18 17:02 G 13198548.10 13198548.21 13198548.31 0.2660 0.0944 *

Mars 31424-09-10 17:02 G 13198693.17 13198693.21 13198693.25 0.1740 0.1663

Mars 31425-07-05 17:45 G 13198991.16 13198991.24 13198991.32 0.1798 0.1304

Jupiter 31428-10-09 19:41 G 13200183.14 13200183.32 13200183.50 0.0508 0.0068

Neptune 31429-08-06 00:14 G 13200483.50 13200483.51 13200483.55 0.0088 0.0087

Neptune 31429-11-02 01:41 G 13200571.52 13200571.57 13200571.64 0.0088 0.0080

Neptune 31430-01-29 03:07 G 13200659.56 13200659.63 13200659.72 0.0088 0.0073

Neptune 31430-04-27 04:33 G 13200747.61 13200747.69 13200747.79 0.0088 0.0065

Neptune 31430-07-24 06:00 G 13200835.65 13200835.75 13200835.86 0.0088 0.0058

Neptune 31430-10-20 07:12 G 13200923.71 13200923.80 13200923.93 0.0088 0.0052

Neptune 31431-01-16 08:53 G 13201011.76 13201011.87 13201011.99 0.0088 0.0044

Neptune 31431-04-14 10:19 G 13201099.81 13201099.93 13201100.06 0.0088 0.0037

Neptune 31431-07-11 11:45 G 13201187.87 13201187.99 13201188.12 0.0088 0.0029

Neptune 31431-10-07 13:12 G 13201275.92 13201276.05 13201276.19 0.0088 0.0022

Neptune 31432-01-03 14:38 G 13201363.98 13201364.11 13201364.25 0.0088 0.0015

Neptune 31432-03-31 16:05 G 13201452.04 13201452.17 13201452.31 0.0088 0.0008

Neptune 31432-06-27 17:45 G 13201540.10 13201540.24 13201540.37 0.0088 0.0002

Neptune 31432-09-23 19:12 G 13201628.16 13201628.30 13201628.43 0.0088 0.0007

Neptune 31432-12-20 20:38 G 13201716.22 13201716.36 13201716.49 0.0088 0.0014

Neptune 31433-03-18 22:05 G 13201804.29 13201804.42 13201804.55 0.0088 0.0022

Neptune 31433-06-14 23:31 G 13201892.35 13201892.48 13201892.61 0.0088 0.0029

Neptune 31433-09-11 00:57 G 13201980.42 13201980.54 13201980.67 0.0088 0.0036

Neptune 31433-12-08 02:09 G 13202068.49 13202068.59 13202068.73 0.0088 0.0045

Mars 31434-01-31 19:26 G 13202123.16 13202123.31 13202123.46 0.1732 0.0324

Neptune 31434-03-06 03:50 G 13202156.56 13202156.66 13202156.78 0.0088 0.0051

Jupiter 31434-05-31 13:55 G 13202242.95 13202243.08 13202243.21 0.0519 0.0017

Neptune 31434-06-02 05:31 G 13202244.63 13202244.73 13202244.83 0.0088 0.0059

Neptune 31434-08-29 06:43 G 13202332.70 13202332.78 13202332.88 0.0088 0.0066

Earth 31434-10-17 18:00 G 13202382.10 13202382.25 13202382.39 0.2672 0.0888

Moon 31434-10-17 18:14 G 13202382.11 13202382.26 13202382.40 0.2678 0.0828 *

Neptune 31434-11-25 08:24 G 13202420.78 13202420.85 13202420.93 0.0088 0.0073

Mars 31434-11-26 01:55 G 13202421.45 13202421.58 13202421.70 0.1807 0.0212

Neptune 31435-02-21 09:36 G 13202508.87 13202508.90 13202508.97 0.0088 0.0082

Moon 31437-04-21 10:33 G 13203298.89 13203298.94 13203299.00 0.2666 0.2286

Earth 31437-04-21 10:48 G 13203298.90 13203298.95 13203299.00 0.2660 0.2332 *

Saturn 31437-04-22 00:14 G 13203299.45 13203299.51 13203299.58 0.0264 0.0228

Saturn 31437-07-19 10:48 G 13203387.83 13203387.95 13203388.07 0.0264 0.0129

Saturn 31437-10-15 21:21 G 13203476.25 13203476.39 13203476.52 0.0264 0.0030

Saturn 31438-01-12 07:55 G 13203564.70 13203564.83 13203564.96 0.0263 0.0071

Saturn 31438-04-10 18:29 G 13203653.17 13203653.27 13203653.38 0.0263 0.0172

Jupiter 31440-07-28 17:17 G 13204493.07 13204493.22 13204493.37 0.0507 0.0265

Mars 31443-06-23 21:36 G 13205553.28 13205553.40 13205553.52 0.1724 0.1042

Moon 31444-04-14 09:50 G 13205848.82 13205848.91 13205849.00 0.2654 0.1603

Earth 31444-04-14 10:19 G 13205848.84 13205848.93 13205849.02 0.2659 0.1500 *

Mars 31444-04-17 10:05 G 13205851.81 13205851.92 13205852.02 0.1815 0.0891

Jupiter 31446-03-19 18:14 G 13206553.13 13206553.26 13206553.38 0.0519 0.0134

Jupiter 31446-06-17 00:43 G 13206642.47 13206642.53 13206642.59 0.0516 0.0462

Jupiter 31452-05-16 15:36 G 13208803.07 13208803.15 13208803.23 0.0507 0.0452

Jupiter 31452-08-14 23:02 G 13208893.33 13208893.46 13208893.60 0.0509 0.0339

Saturn 31452-11-11 23:17 G 13208982.37 13208982.47 13208982.57 0.0297 0.0244

Saturn 31453-02-08 22:48 G 13209071.28 13209071.45 13209071.63 0.0297 0.0053

Saturn 31453-05-08 22:05 G 13209160.27 13209160.42 13209160.58 0.0298 0.0136

Venus 31454-06-01 06:43 G 13209548.69 13209548.78 13209548.86 0.3682 0.2352

Moon 31457-04-17 03:21 G 13210599.53 13210599.64 13210599.75 0.2659 0.0201

Earth 31457-04-17 04:05 G 13210599.56 13210599.67 13210599.78 0.2659 0.0175 *

Jupiter 31458-01-05 21:36 G 13210863.29 13210863.40 13210863.51 0.0520 0.0294

Jupiter 31458-04-05 04:05 G 13210952.56 13210952.67 13210952.77 0.0517 0.0300

Venus 31458-06-02 18:14 G 13211011.13 13211011.26 13211011.39 0.3689 0.0910

Uranus 31458-09-28 03:36 G 13211128.65 13211128.65 13211128.67 0.0144 0.0144

Uranus 31458-12-25 07:26 G 13211216.75 13211216.81 13211216.89 0.0144 0.0123

Uranus 31459-03-23 11:31 G 13211304.89 13211304.98 13211305.08 0.0144 0.0101

Uranus 31459-06-19 15:36 G 13211393.04 13211393.15 13211393.27 0.0145 0.0079

Uranus 31459-09-15 19:41 G 13211481.19 13211481.32 13211481.45 0.0145 0.0057

Uranus 31459-12-12 23:45 G 13211569.36 13211569.49 13211569.63 0.0145 0.0035

Venus 31459-12-16 00:14 G 13211572.40 13211572.51 13211572.62 0.3681 0.0475

Uranus 31460-03-10 03:50 G 13211657.52 13211657.66 13211657.80 0.0145 0.0013

Uranus 31460-06-06 07:55 G 13211745.69 13211745.83 13211745.97 0.0145 0.0009

Uranus 31460-09-02 12:00 G 13211833.87 13211834.00 13211834.14 0.0145 0.0032

Uranus 31460-11-29 16:19 G 13211922.05 13211922.18 13211922.31 0.0145 0.0054

Uranus 31461-02-25 20:24 G 13212010.24 13212010.35 13212010.47 0.0145 0.0077

Uranus 31461-05-25 00:43 G 13212098.43 13212098.53 13212098.63 0.0145 0.0100

Uranus 31461-08-21 04:48 G 13212186.64 13212186.70 13212186.78 0.0145 0.0123

Venus 31463-12-17 18:43 G 13213035.18 13213035.28 13213035.39 0.3690 0.2260

Jupiter 31464-06-02 21:36 G 13213203.23 13213203.40 13213203.57 0.0509 0.0154

Mars 31465-01-03 17:45 G 13213418.16 13213418.24 13213418.31 0.1799 0.1436

Venus 31465-06-30 18:14 G 13213596.16 13213596.26 13213596.36 0.3681 0.1476

Saturn 31466-09-09 03:07 G 13214031.60 13214031.63 13214031.66 0.0265 0.0256

Saturn 31466-12-06 13:26 G 13214119.96 13214120.06 13214120.17 0.0264 0.0157

Saturn 31467-03-05 00:00 G 13214208.37 13214208.50 13214208.63 0.0264 0.0057

Saturn 31467-06-01 10:33 G 13214296.81 13214296.94 13214297.08 0.0263 0.0043

Saturn 31467-08-28 21:21 G 13214385.27 13214385.39 13214385.50 0.0263 0.0144

Moon 31467-10-15 17:17 G 13214433.10 13214433.22 13214433.35 0.2677 0.1554

Earth 31467-10-15 18:14 G 13214433.12 13214433.26 13214433.39 0.2672 0.1399 *

Saturn 31467-11-25 07:55 G 13214473.79 13214473.83 13214473.89 0.0263 0.0246

Pluto 31469-09-05 05:17 G 13215123.61 13215123.72 13215123.86 0.0074 0.0058

Jupiter 31469-10-25 01:41 G 13215173.51 13215173.57 13215173.64 0.0521 0.0441

Pluto 31469-12-02 07:55 G 13215211.67 13215211.83 13215212.01 0.0074 0.0039

Jupiter 31470-01-22 07:55 G 13215262.71 13215262.83 13215262.96 0.0518 0.0152

Pluto 31470-02-28 10:33 G 13215299.76 13215299.94 13215300.14 0.0074 0.0021

Moon 31470-04-19 21:07 G 13215350.28 13215350.38 13215350.48 0.2664 0.1085

Earth 31470-04-19 21:50 G 13215350.31 13215350.41 13215350.50 0.2660 0.1228 *

Pluto 31470-05-27 13:26 G 13215387.86 13215388.06 13215388.26 0.0074 0.0003

Pluto 31470-08-23 15:50 G 13215475.97 13215476.16 13215476.36 0.0074 0.0015

Pluto 31470-11-19 18:29 G 13215564.10 13215564.27 13215564.45 0.0074 0.0033

Venus 31471-01-14 12:14 G 13215619.98 13215620.01 13215620.04 0.3680 0.3475

Pluto 31471-02-15 20:53 G 13215652.24 13215652.37 13215652.53 0.0074 0.0051

Pluto 31471-05-14 23:17 G 13215740.42 13215740.47 13215740.56 0.0074 0.0069

Mars 31473-08-01 19:41 G 13216550.18 13216550.32 13216550.47 0.1732 0.0491

Mars 31474-05-27 01:55 G 13216848.46 13216848.58 13216848.70 0.1807 0.0356

Jupiter 31476-03-21 19:12 G 13217513.12 13217513.30 13217513.47 0.0508 0.0047

Moon 31477-04-12 21:21 G 13217900.36 13217900.39 13217900.42 0.2653 0.2549

Earth 31477-04-12 21:36 G 13217900.37 13217900.40 13217900.42 0.2659 0.2558 *

Earth 31480-10-18 00:29 G 13219184.39 13219184.52 13219184.65 0.2672 0.1434

Moon 31480-10-18 00:57 G 13219184.41 13219184.54 13219184.66 0.2679 0.1579 *

Jupiter 31481-11-10 12:14 G 13219572.88 13219573.01 13219573.14 0.0519 0.0015

Saturn 31482-06-28 20:53 G 13219803.20 13219803.37 13219803.53 0.0297 0.0115

Saturn 31482-09-25 20:09 G 13219892.17 13219892.34 13219892.51 0.0298 0.0076

Mars 31482-12-22 22:05 G 13219980.29 13219980.42 13219980.56 0.1724 0.0849

Saturn 31482-12-23 18:57 G 13219981.22 13219981.29 13219981.38 0.0298 0.0262

Earth 31483-04-22 15:36 G 13220101.14 13220101.15 13220101.17 0.2660 0.2619

Mars 31483-10-17 10:05 G 13220278.81 13220278.92 13220279.03 0.1815 0.0750

Jupiter 31488-01-08 16:48 G 13221823.04 13221823.20 13221823.35 0.0507 0.0242

Moon 31490-04-15 14:38 G 13222651.01 13222651.11 13222651.21 0.2654 0.1269

Earth 31490-04-15 15:07 G 13222651.03 13222651.13 13222651.23 0.2659 0.1221 *

Jupiter 31493-08-29 16:48 G 13223883.08 13223883.20 13223883.33 0.0519 0.0130

Jupiter 31493-11-26 23:31 G 13223972.42 13223972.48 13223972.53 0.0517 0.0468

Saturn 31496-04-24 15:21 G 13224852.05 13224852.14 13224852.23 0.0264 0.0192

Saturn 31496-07-22 01:55 G 13224940.45 13224940.58 13224940.70 0.0264 0.0093

Saturn 31496-10-18 12:14 G 13225028.88 13225029.01 13225029.15 0.0263 0.0011

Saturn 31497-01-14 23:02 G 13225117.33 13225117.46 13225117.58 0.0263 0.0107

Saturn 31497-04-13 09:36 G 13225205.82 13225205.90 13225205.99 0.0263 0.0209

Jupiter 31499-10-27 14:09 G 13226133.01 13226133.09 13226133.18 0.0507 0.0440

Jupiter 31500-01-25 21:50 G 13226223.28 13226223.41 13226223.54 0.0509 0.0349

Uranus 31500-01-26 19:26 G 13226224.27 13226224.31 13226224.38 0.0134 0.0127

Uranus 31500-04-25 01:55 G 13226312.47 13226312.58 13226312.70 0.0134 0.0103

Uranus 31500-07-22 08:09 G 13226400.70 13226400.84 13226400.99 0.0134 0.0080

Uranus 31500-10-18 14:24 G 13226488.94 13226489.10 13226489.27 0.0134 0.0057

Uranus 31501-01-14 20:38 G 13226577.19 13226577.36 13226577.54 0.0134 0.0034

Uranus 31501-04-13 02:53 G 13226665.44 13226665.62 13226665.80 0.0134 0.0011

Uranus 31501-07-10 08:53 G 13226753.69 13226753.87 13226754.05 0.0134 0.0012

Uranus 31501-10-06 14:53 G 13226841.95 13226842.12 13226842.30 0.0133 0.0034

Uranus 31502-01-02 20:53 G 13226930.21 13226930.37 13226930.53 0.0133 0.0056

Uranus 31502-04-01 02:38 G 13227018.48 13227018.61 13227018.76 0.0133 0.0079

Uranus 31502-06-28 08:38 G 13227106.75 13227106.86 13227106.98 0.0133 0.0100

Uranus 31502-09-24 14:09 G 13227195.04 13227195.09 13227195.18 0.0133 0.0123

Moon 31503-04-19 08:09 G 13227401.73 13227401.84 13227401.95 0.2661 0.0049

Earth 31503-04-19 08:53 G 13227401.76 13227401.87 13227401.98 0.2659 0.0155 *

Mars 31504-07-05 17:45 G 13227845.19 13227845.24 13227845.30 0.1798 0.1591

Jupiter 31505-06-18 21:21 G 13228193.28 13228193.39 13228193.50 0.0520 0.0270

Venus 31505-06-23 11:02 G 13228197.94 13228197.96 13228197.99 0.3682 0.3538

Jupiter 31505-09-16 03:50 G 13228282.56 13228282.66 13228282.76 0.0517 0.0325

Venus 31509-06-24 17:17 G 13229660.15 13229660.22 13229660.29 0.3689 0.3129

Venus 31511-01-07 04:33 G 13230221.59 13230221.69 13230221.79 0.3682 0.1699

Jupiter 31511-11-14 20:24 G 13230533.19 13230533.35 13230533.52 0.0509 0.0168

Saturn 31511-11-16 15:50 G 13230535.03 13230535.16 13230535.30 0.0297 0.0195

Saturn 31512-02-13 15:36 G 13230623.97 13230624.15 13230624.32 0.0297 0.0008

Saturn 31512-05-12 14:38 G 13230712.97 13230713.11 13230713.25 0.0298 0.0184

Mars 31513-01-31 20:24 G 13230977.21 13230977.35 13230977.49 0.1732 0.0695

Moon 31513-10-17 00:14 G 13231235.37 13231235.51 13231235.65 0.2678 0.0906

Earth 31513-10-17 00:43 G 13231235.38 13231235.53 13231235.67 0.2672 0.0852 *

Neptune 31513-10-18 10:48 G 13231236.90 13231236.95 13231237.04 0.0089 0.0082

Mars 31513-11-26 01:55 G 13231275.46 13231275.58 13231275.70 0.1806 0.0485

Neptune 31514-01-14 14:24 G 13231324.99 13231325.10 13231325.21 0.0089 0.0071

Neptune 31514-04-12 17:45 G 13231413.11 13231413.24 13231413.37 0.0089 0.0061

Neptune 31514-07-09 20:53 G 13231501.22 13231501.37 13231501.53 0.0089 0.0051

Neptune 31514-10-06 00:00 G 13231589.35 13231589.50 13231589.67 0.0089 0.0041

Neptune 31515-01-02 03:21 G 13231677.47 13231677.64 13231677.82 0.0089 0.0031

Venus 31515-01-08 18:14 G 13231684.12 13231684.26 13231684.39 0.3689 0.0180

Neptune 31515-03-31 06:43 G 13231765.60 13231765.78 13231765.96 0.0089 0.0021

Neptune 31515-06-27 09:50 G 13231853.73 13231853.91 13231854.10 0.0089 0.0011

Neptune 31515-09-23 13:12 G 13231941.86 13231942.05 13231942.23 0.0089 0.0002

Neptune 31515-12-20 16:05 G 13232029.99 13232030.17 13232030.36 0.0089 0.0009

Neptune 31516-03-17 19:12 G 13232118.13 13232118.30 13232118.49 0.0089 0.0019

Moon 31516-04-21 02:09 G 13232152.50 13232152.59 13232152.68 0.2664 0.1503

Earth 31516-04-21 02:38 G 13232152.52 13232152.61 13232152.70 0.2660 0.1509 *

Neptune 31516-06-13 22:33 G 13232206.27 13232206.44 13232206.61 0.0089 0.0028

Venus 31516-07-22 22:19 G 13232245.32 13232245.43 13232245.54 0.3681 0.0210

Neptune 31516-09-10 01:41 G 13232294.41 13232294.57 13232294.74 0.0089 0.0038

Neptune 31516-12-07 04:33 G 13232382.55 13232382.69 13232382.85 0.0089 0.0048

Neptune 31517-03-05 07:41 G 13232470.69 13232470.82 13232470.97 0.0089 0.0058

Jupiter 31517-04-07 00:57 G 13232503.47 13232503.54 13232503.61 0.0520 0.0428

Neptune 31517-06-01 11:02 G 13232558.84 13232558.96 13232559.08 0.0089 0.0068

Jupiter 31517-07-05 07:12 G 13232592.67 13232592.80 13232592.92 0.0518 0.0165

Neptune 31517-08-28 13:55 G 13232647.00 13232647.08 13232647.18 0.0089 0.0077

Neptune 31517-11-24 16:48 G 13232735.18 13232735.20 13232735.25 0.0089 0.0087

Venus 31520-07-24 18:29 G 13233708.22 13233708.27 13233708.33 0.3690 0.3289

Venus 31522-02-05 16:19 G 13234269.09 13234269.18 13234269.27 0.3681 0.2162

Mars 31522-06-23 22:33 G 13234407.30 13234407.44 13234407.58 0.1724 0.0670

Moon 31523-04-15 02:09 G 13234702.54 13234702.59 13234702.64 0.2653 0.2340

Earth 31523-04-15 02:24 G 13234702.54 13234702.60 13234702.65 0.2659 0.2279 *

Mars 31523-04-18 10:05 G 13234705.81 13234705.92 13234706.04 0.1815 0.0613

Jupiter 31523-09-02 18:57 G 13234843.11 13234843.29 13234843.47 0.0508 0.0019

Saturn 31525-09-12 17:45 G 13235584.18 13235584.24 13235584.32 0.0265 0.0223

Saturn 31525-12-10 04:19 G 13235672.56 13235672.68 13235672.80 0.0264 0.0123

Saturn 31526-03-08 14:53 G 13235760.98 13235761.12 13235761.25 0.0264 0.0023

Saturn 31526-06-05 01:26 G 13235849.43 13235849.56 13235849.69 0.0263 0.0078

Saturn 31526-09-01 12:00 G 13235937.91 13235938.00 13235938.11 0.0263 0.0179

Earth 31526-10-20 06:57 G 13235986.69 13235986.79 13235986.89 0.2672 0.1976

Moon 31526-10-20 07:26 G 13235986.71 13235986.81 13235986.91 0.2679 0.1971 *

Jupiter 31529-04-23 11:17 G 13236902.84 13236902.97 13236903.10 0.0518 0.0023

Mars 31532-09-07 18:29 G 13238136.23 13238136.27 13238136.31 0.1823 0.1704

Jupiter 31535-06-21 16:19 G 13239153.02 13239153.18 13239153.34 0.0507 0.0218

Moon 31536-04-16 19:26 G 13239453.20 13239453.31 13239453.41 0.2656 0.1025

Earth 31536-04-16 19:55 G 13239453.23 13239453.33 13239453.43 0.2659 0.0942 *

Jupiter 31541-02-09 15:36 G 13241213.02 13241213.15 13241213.27 0.0519 0.0127

Saturn 31541-04-04 13:41 G 13241266.99 13241267.07 13241267.16 0.0297 0.0258

Jupiter 31541-05-09 22:05 G 13241302.37 13241302.42 13241302.47 0.0517 0.0471

Saturn 31541-07-02 13:26 G 13241355.89 13241356.06 13241356.24 0.0298 0.0065

Saturn 31541-09-29 12:43 G 13241444.87 13241445.03 13241445.19 0.0298 0.0125

Uranus 31542-10-19 10:48 G 13241829.92 13241829.95 13241829.99 0.0144 0.0139

Uranus 31543-01-15 14:38 G 13241918.04 13241918.11 13241918.20 0.0144 0.0118

Uranus 31543-04-13 18:43 G 13242006.18 13242006.28 13242006.39 0.0145 0.0096

Uranus 31543-07-10 22:48 G 13242094.33 13242094.45 13242094.57 0.0145 0.0074

Uranus 31543-10-07 02:53 G 13242182.49 13242182.62 13242182.75 0.0145 0.0052

Uranus 31544-01-03 06:57 G 13242270.65 13242270.79 13242270.92 0.0145 0.0030

Mars 31544-01-04 18:00 G 13242272.22 13242272.25 13242272.28 0.1798 0.1733

Uranus 31544-03-31 11:02 G 13242358.82 13242358.96 13242359.10 0.0145 0.0008

Uranus 31544-06-27 15:07 G 13242446.99 13242447.13 13242447.27 0.0145 0.0014

Uranus 31544-09-23 19:12 G 13242535.17 13242535.30 13242535.44 0.0145 0.0037

Uranus 31544-12-20 23:31 G 13242623.35 13242623.48 13242623.60 0.0145 0.0059

Uranus 31545-03-19 03:36 G 13242711.54 13242711.65 13242711.77 0.0145 0.0082

Uranus 31545-06-15 07:41 G 13242799.73 13242799.82 13242799.93 0.0145 0.0105

Uranus 31545-09-11 12:00 G 13242887.94 13242888.00 13242888.07 0.0145 0.0128

Jupiter 31547-04-09 13:55 G 13243462.98 13243463.08 13243463.18 0.0506 0.0415

Jupiter 31547-07-08 21:21 G 13243553.27 13243553.39 13243553.51 0.0509 0.0373

Moon 31549-04-19 12:57 G 13244203.93 13244204.04 13244204.15 0.2662 0.0352

Earth 31549-04-19 13:41 G 13244203.96 13244204.07 13244204.18 0.2659 0.0422 *

Mars 31552-08-01 20:53 G 13245404.24 13245404.37 13245404.50 0.1732 0.0877

Jupiter 31552-11-28 20:09 G 13245523.23 13245523.34 13245523.45 0.0520 0.0264

Jupiter 31553-02-26 02:38 G 13245612.51 13245612.61 13245612.71 0.0517 0.0332

Mars 31553-05-27 01:55 G 13245702.47 13245702.58 13245702.70 0.1806 0.0629

Saturn 31555-01-30 19:41 G 13246316.30 13246316.32 13246316.36 0.0265 0.0257

Saturn 31555-04-29 06:14 G 13246404.65 13246404.76 13246404.87 0.0264 0.0158

Saturn 31555-07-26 16:33 G 13246493.06 13246493.19 13246493.33 0.0264 0.0059

Saturn 31555-10-23 03:07 G 13246581.50 13246581.63 13246581.77 0.0263 0.0042

Saturn 31556-01-19 13:55 G 13246669.96 13246670.08 13246670.19 0.0263 0.0143

Saturn 31556-04-17 00:29 G 13246758.48 13246758.52 13246758.58 0.0263 0.0245

Jupiter 31559-04-26 19:12 G 13247863.14 13247863.30 13247863.47 0.0509 0.0179

Moon 31559-10-18 06:57 G 13248037.64 13248037.79 13248037.95 0.2679 0.0298

Earth 31559-10-18 07:12 G 13248037.65 13248037.80 13248037.96 0.2672 0.0301 *

Mars 31561-12-22 23:02 G 13248834.32 13248834.46 13248834.61 0.1724 0.0483

Venus 31562-01-28 09:07 G 13248870.81 13248870.88 13248870.94 0.3682 0.2912

Moon 31562-04-22 07:12 G 13248954.71 13248954.80 13248954.88 0.2665 0.1710

Earth 31562-04-22 07:26 G 13248954.73 13248954.81 13248954.89 0.2659 0.1798 *

Mars 31562-10-17 10:19 G 13249132.81 13249132.93 13249133.04 0.1814 0.0471

Jupiter 31564-09-17 00:43 G 13249833.45 13249833.53 13249833.61 0.0521 0.0404

Jupiter 31564-12-15 06:57 G 13249922.67 13249922.79 13249922.91 0.0518 0.0190

Venus 31566-01-29 17:17 G 13250333.11 13250333.22 13250333.33 0.3689 0.2010

Venus 31567-08-14 02:38 G 13250894.50 13250894.61 13250894.72 0.3682 0.1041

Moon 31569-04-15 06:43 G 13251504.71 13251504.78 13251504.86 0.2653 0.1992

Earth 31569-04-15 07:12 G 13251504.73 13251504.80 13251504.87 0.2659 0.2004 *

Saturn 31570-11-19 08:24 G 13252087.70 13252087.85 13252088.01 0.0297 0.0147

Jupiter 31571-02-12 18:00 G 13252173.07 13252173.25 13252173.42 0.0508 0.0013

Saturn 31571-02-16 07:55 G 13252176.66 13252176.83 13252177.01 0.0297 0.0044

Saturn 31571-05-16 06:57 G 13252265.68 13252265.79 13252265.90 0.0298 0.0231

Venus 31571-08-15 18:00 G 13252357.12 13252357.25 13252357.37 0.3690 0.1233

Mars 31572-03-08 18:14 G 13252563.21 13252563.26 13252563.32 0.1823 0.1582

Earth 31572-10-20 13:26 G 13252789.01 13252789.06 13252789.11 0.2672 0.2503

Moon 31572-10-20 14:09 G 13252789.07 13252789.09 13252789.11 0.2678 0.2637 *

Venus 31573-02-26 20:24 G 13252918.24 13252918.35 13252918.46 0.3681 0.0874

Jupiter 31576-10-03 10:19 G 13254232.80 13254232.93 13254233.06 0.0518 0.0031

Venus 31578-09-12 14:24 G 13254942.03 13254942.10 13254942.17 0.3680 0.2859

Moon 31582-04-18 00:00 G 13256255.40 13256255.50 13256255.61 0.2658 0.0783

Earth 31582-04-18 00:43 G 13256255.42 13256255.53 13256255.64 0.2659 0.0660 *

Jupiter 31582-12-01 16:05 G 13256483.01 13256483.17 13256483.34 0.0507 0.0192

Uranus 31584-02-17 02:38 G 13256925.54 13256925.61 13256925.70 0.0134 0.0120

Uranus 31584-05-15 08:53 G 13257013.76 13257013.87 13257014.01 0.0134 0.0097

Uranus 31584-08-11 15:21 G 13257102.00 13257102.14 13257102.30 0.0134 0.0073

Saturn 31584-09-15 08:38 G 13257136.77 13257136.86 13257136.95 0.0265 0.0190

Uranus 31584-11-07 21:36 G 13257190.24 13257190.40 13257190.57 0.0134 0.0050

Saturn 31584-12-12 18:57 G 13257225.17 13257225.29 13257225.42 0.0264 0.0090

Uranus 31585-02-04 03:50 G 13257278.49 13257278.66 13257278.84 0.0134 0.0027

Saturn 31585-03-11 05:31 G 13257313.60 13257313.73 13257313.87 0.0264 0.0012

Uranus 31585-05-03 10:05 G 13257366.74 13257366.92 13257367.10 0.0134 0.0004

Saturn 31585-06-07 16:19 G 13257402.05 13257402.18 13257402.30 0.0263 0.0112

Uranus 31585-07-30 16:05 G 13257454.99 13257455.17 13257455.35 0.0134 0.0018

Saturn 31585-09-04 02:53 G 13257490.55 13257490.62 13257490.70 0.0263 0.0213

Uranus 31585-10-26 22:05 G 13257543.25 13257543.42 13257543.59 0.0134 0.0041

Uranus 31586-01-23 04:05 G 13257631.52 13257631.67 13257631.83 0.0134 0.0063

Uranus 31586-04-21 10:05 G 13257719.79 13257719.92 13257720.06 0.0133 0.0085

Uranus 31586-07-18 15:50 G 13257808.06 13257808.16 13257808.27 0.0133 0.0107

Uranus 31586-10-14 21:36 G 13257896.37 13257896.40 13257896.45 0.0133 0.0129

Jupiter 31588-07-22 14:24 G 13258542.97 13258543.10 13258543.23 0.0519 0.0117

Jupiter 31588-10-19 20:53 G 13258632.33 13258632.37 13258632.42 0.0516 0.0478

Mars 31592-01-31 21:21 G 13259831.27 13259831.39 13259831.51 0.1732 0.1051

Earth 31592-10-15 07:12 G 13260088.78 13260088.80 13260088.82 0.2672 0.2640

Mars 31592-11-25 02:09 G 13260129.48 13260129.59 13260129.70 0.1806 0.0783

Neptune 31594-05-04 00:00 G 13260654.47 13260654.50 13260654.55 0.0088 0.0084

Neptune 31594-07-31 01:26 G 13260742.50 13260742.56 13260742.63 0.0088 0.0076

Jupiter 31594-09-19 13:26 G 13260792.95 13260793.06 13260793.18 0.0506 0.0391

Neptune 31594-10-27 02:38 G 13260830.54 13260830.61 13260830.71 0.0088 0.0070

Jupiter 31594-12-18 20:53 G 13260883.27 13260883.37 13260883.48 0.0509 0.0397

Neptune 31595-01-23 04:05 G 13260918.59 13260918.67 13260918.78 0.0088 0.0063

Moon 31595-04-20 17:45 G 13261006.13 13261006.24 13261006.35 0.2662 0.0586

Earth 31595-04-20 18:29 G 13261006.16 13261006.27 13261006.38 0.2659 0.0701 *

Neptune 31595-04-21 05:31 G 13261006.64 13261006.73 13261006.85 0.0088 0.0056

Neptune 31595-07-18 07:12 G 13261094.69 13261094.80 13261094.92 0.0088 0.0048

Neptune 31595-10-14 08:38 G 13261182.74 13261182.86 13261182.98 0.0088 0.0041

Neptune 31596-01-10 10:05 G 13261270.79 13261270.92 13261271.05 0.0088 0.0034

Neptune 31596-04-07 11:31 G 13261358.85 13261358.98 13261359.11 0.0088 0.0026

Neptune 31596-07-04 12:57 G 13261446.91 13261447.04 13261447.17 0.0088 0.0019

Neptune 31596-09-30 14:24 G 13261534.96 13261535.10 13261535.24 0.0088 0.0012

Neptune 31596-12-27 15:50 G 13261623.02 13261623.16 13261623.30 0.0088 0.0005

Neptune 31597-03-25 17:17 G 13261711.08 13261711.22 13261711.36 0.0088 0.0003

Neptune 31597-06-21 18:43 G 13261799.14 13261799.28 13261799.42 0.0088 0.0010

Neptune 31597-09-17 20:09 G 13261887.21 13261887.34 13261887.48 0.0088 0.0017

Neptune 31597-12-14 21:36 G 13261975.27 13261975.40 13261975.53 0.0088 0.0025

Neptune 31598-03-12 23:02 G 13262063.33 13262063.46 13262063.59 0.0088 0.0032

Neptune 31598-06-09 00:29 G 13262151.40 13262151.52 13262151.65 0.0088 0.0039

Neptune 31598-09-05 02:09 G 13262239.47 13262239.59 13262239.70 0.0088 0.0047

Neptune 31598-12-02 03:21 G 13262327.54 13262327.64 13262327.76 0.0088 0.0054

Neptune 31599-02-28 04:48 G 13262415.61 13262415.70 13262415.81 0.0088 0.0062

Neptune 31599-05-27 06:14 G 13262503.69 13262503.76 13262503.86 0.0088 0.0069

Neptune 31599-08-23 07:55 G 13262591.77 13262591.83 13262591.90 0.0088 0.0076

Neptune 31599-11-19 09:36 G 13262679.86 13262679.90 13262679.94 0.0088 0.0084

Saturn 31600-04-07 06:14 G 13262819.64 13262819.76 13262819.89 0.0297 0.0209

Jupiter 31600-05-10 18:43 G 13262853.17 13262853.28 13262853.39 0.0520 0.0261

Saturn 31600-07-05 06:00 G 13262908.58 13262908.75 13262908.93 0.0298 0.0017

Jupiter 31600-08-08 01:12 G 13262942.45 13262942.55 13262942.65 0.0517 0.0335

Saturn 31600-10-02 05:17 G 13262997.58 13262997.72 13262997.86 0.0298 0.0172

Mars 31601-06-22 23:45 G 13263261.33 13263261.49 13263261.64 0.1725 0.0292

Mars 31602-04-17 10:19 G 13263559.81 13263559.93 13263560.05 0.1814 0.0335

Moon 31605-10-18 13:41 G 13264839.92 13264840.07 13264840.22 0.2679 0.0182

Earth 31605-10-18 13:41 G 13264839.92 13264840.07 13264840.23 0.2672 0.0248 *

Jupiter 31606-10-06 18:43 G 13265193.12 13265193.28 13265193.45 0.0508 0.0203

Moon 31608-04-22 12:00 G 13265756.94 13265757.00 13265757.07 0.2666 0.2098

Earth 31608-04-22 12:14 G 13265756.94 13265757.01 13265757.08 0.2660 0.2082 *

Mars 31610-11-13 01:55 G 13266691.54 13266691.58 13266691.62 0.1717 0.1640

Mars 31611-09-07 18:29 G 13266990.20 13266990.27 13266990.34 0.1823 0.1431

Jupiter 31612-02-27 23:17 G 13267163.39 13267163.47 13267163.55 0.0521 0.0399

Jupiter 31612-05-27 05:31 G 13267252.61 13267252.73 13267252.85 0.0518 0.0195

Saturn 31614-02-02 10:33 G 13267868.87 13267868.94 13267869.01 0.0265 0.0223

Saturn 31614-05-01 21:07 G 13267957.26 13267957.38 13267957.50 0.0264 0.0124

Saturn 31614-07-29 07:26 G 13268045.68 13268045.81 13268045.95 0.0264 0.0025

Saturn 31614-10-25 18:00 G 13268134.12 13268134.25 13268134.39 0.0263 0.0078

Saturn 31615-01-22 04:48 G 13268222.60 13268222.70 13268222.80 0.0263 0.0178

Moon 31615-04-16 11:31 G 13268306.90 13268306.98 13268307.06 0.2653 0.1823

Earth 31615-04-16 12:00 G 13268306.91 13268307.00 13268307.08 0.2659 0.1727 *

Jupiter 31618-07-25 16:33 G 13269503.01 13269503.19 13269503.37 0.0508 0.0008

Venus 31618-09-04 06:57 G 13269543.71 13269543.79 13269543.88 0.3682 0.2265

Venus 31622-09-05 17:17 G 13271006.09 13271006.22 13271006.35 0.3689 0.0923

Jupiter 31624-03-15 10:05 G 13271562.79 13271562.92 13271563.05 0.0519 0.0055

Venus 31624-03-20 00:43 G 13271567.41 13271567.53 13271567.64 0.3681 0.0413

Uranus 31626-11-08 18:29 G 13272531.22 13272531.27 13272531.33 0.0144 0.0131

Uranus 31627-02-04 22:33 G 13272619.35 13272619.44 13272619.53 0.0144 0.0110

Uranus 31627-05-04 02:24 G 13272707.50 13272707.60 13272707.72 0.0145 0.0089

Uranus 31627-07-31 06:29 G 13272795.65 13272795.77 13272795.90 0.0145 0.0067

Uranus 31627-10-27 10:33 G 13272883.81 13272883.94 13272884.07 0.0145 0.0045

Uranus 31628-01-23 14:38 G 13272971.97 13272972.11 13272972.25 0.0145 0.0023

Venus 31628-03-21 17:45 G 13273030.14 13273030.24 13273030.35 0.3690 0.2294

Moon 31628-04-18 04:48 G 13273057.59 13273057.70 13273057.81 0.2659 0.0438

Earth 31628-04-18 05:31 G 13273057.62 13273057.73 13273057.84 0.2659 0.0382 *

Uranus 31628-04-20 18:43 G 13273060.14 13273060.28 13273060.42 0.0145 0.0001

Uranus 31628-07-17 22:48 G 13273148.31 13273148.45 13273148.59 0.0145 0.0022

Uranus 31628-10-14 02:53 G 13273236.49 13273236.62 13273236.76 0.0145 0.0044

Uranus 31629-01-10 06:57 G 13273324.67 13273324.79 13273324.92 0.0145 0.0067

Uranus 31629-04-08 11:17 G 13273412.86 13273412.97 13273413.08 0.0145 0.0090

Uranus 31629-07-05 15:21 G 13273501.06 13273501.14 13273501.24 0.0145 0.0113

Saturn 31629-08-25 01:12 G 13273551.53 13273551.55 13273551.59 0.0296 0.0290

Uranus 31629-10-01 19:41 G 13273589.28 13273589.32 13273589.38 0.0145 0.0136

Venus 31629-10-03 18:29 G 13273591.17 13273591.27 13273591.37 0.3681 0.1561

Saturn 31629-11-22 01:12 G 13273640.39 13273640.55 13273640.72 0.0297 0.0097

Pluto 31629-12-18 15:21 G 13273667.12 13273667.14 13273667.20 0.0069 0.0066

Saturn 31630-02-19 00:29 G 13273729.36 13273729.52 13273729.69 0.0297 0.0094

Pluto 31630-03-16 16:05 G 13273755.10 13273755.17 13273755.26 0.0070 0.0056

Jupiter 31630-05-13 14:53 G 13273812.96 13273813.12 13273813.29 0.0507 0.0179

Saturn 31630-05-18 23:31 G 13273818.43 13273818.48 13273818.54 0.0298 0.0280

Pluto 31630-06-12 16:48 G 13273843.11 13273843.20 13273843.30 0.0070 0.0046

Pluto 31630-09-08 17:17 G 13273931.12 13273931.22 13273931.34 0.0070 0.0036

Pluto 31630-12-05 18:00 G 13274019.13 13274019.25 13274019.37 0.0070 0.0026

Pluto 31631-03-03 18:29 G 13274107.15 13274107.27 13274107.40 0.0070 0.0016

Pluto 31631-05-30 19:12 G 13274195.17 13274195.30 13274195.43 0.0070 0.0006

Mars 31631-08-01 21:50 G 13274258.31 13274258.41 13274258.52 0.1733 0.1246

Pluto	31631-08-26 19:41 G	13274283.19	13274283.32	13274283.45	0.0070	0.0004
Pluto	31631-11-22 20:09 G	13274371.22	13274371.34	13274371.47	0.0070	0.0014
Pluto	31632-02-18 20:38 G	13274459.25	13274459.36	13274459.49	0.0070	0.0025
Pluto	31632-05-16 21:21 G	13274547.28	13274547.39	13274547.50	0.0071	0.0035
Mars	31632-05-26 02:09 G	13274556.48	13274556.59	13274556.69	0.1806	0.0913
Pluto	31632-08-12 21:50 G	13274635.32	13274635.41	13274635.51	0.0071	0.0045
Pluto	31632-11-08 22:19 G	13274723.36	13274723.43	13274723.52	0.0071	0.0056
Pluto	31633-02-04 22:48 G	13274811.42	13274811.45	13274811.51	0.0071	0.0066
Venus	31635-04-19 12:29 G	13275615.00	13275615.02	13275615.04	0.3680	0.3566
Jupiter	31636-01-02 13:26 G	13275872.94	13275873.06	13275873.19	0.0519	0.0105
Jupiter	31636-03-31 20:09 G	13275962.30	13275962.34	13275962.37	0.0516	0.0491
Moon	31638-10-16 12:57 G	13276890.96	13276891.04	13276891.12	0.2678	0.2284
Earth	31638-10-16 13:41 G	13276890.98	13276891.07	13276891.17	0.2672	0.2077 *
Mars	31640-12-22 00:14 G	13277688.35	13277688.51	13277688.66	0.1725	0.0110
Moon	31641-04-20 22:33 G	13277808.34	13277808.44	13277808.55	0.2662	0.0905
Earth	31641-04-20 23:17 G	13277808.37	13277808.47	13277808.57	0.2659	0.0986 *
Mars	31641-10-16 10:19 G	13277986.81	13277986.93	13277987.05	0.1814	0.0182
Jupiter	31642-03-01 12:57 G	13278122.92	13278123.04	13278123.17	0.0507	0.0368
Jupiter	31642-05-30 20:38 G	13278213.26	13278213.36	13278213.46	0.0510	0.0422
Saturn	31643-06-22 12:57 G	13278601.01	13278601.04	13278601.08	0.0265	0.0256
Saturn	31643-09-18 23:17 G	13278689.37	13278689.47	13278689.58	0.0265	0.0157
Saturn	31643-12-16 09:50 G	13278777.78	13278777.91	13278778.05	0.0264	0.0056
Saturn	31644-03-13 20:24 G	13278866.22	13278866.35	13278866.49	0.0264	0.0045
Saturn	31644-06-10 07:12 G	13278954.68	13278954.80	13278954.91	0.0263	0.0147
Saturn	31644-09-06 17:45 G	13279043.21	13279043.24	13279043.29	0.0263	0.0249
Jupiter	31647-10-21 17:45 G	13280183.12	13280183.24	13280183.35	0.0520	0.0252
Jupiter	31648-01-19 00:00 G	13280272.40	13280272.50	13280272.60	0.0517	0.0342
Mars	31650-05-14 02:09 G	13281118.52	13281118.59	13281118.67	0.1717	0.1468
Mars	31651-03-08 18:29 G	13281417.19	13281417.27	13281417.36	0.1822	0.1288
Moon	31651-10-19 20:24 G	13281642.20	13281642.35	13281642.49	0.2679	0.0877

Earth 31651-10-19 20:24 G 13281642.20 13281642.35 13281642.49 0.2672 0.0798 *

Jupiter 31654-03-18 18:14 G 13282523.10 13282523.26 13282523.42 0.0509 0.0224

Moon 31654-04-23 17:02 G 13282559.16 13282559.21 13282559.26 0.2667 0.2342

Earth 31654-04-23 17:02 G 13282559.17 13282559.21 13282559.26 0.2659 0.2374 *

Saturn 31659-04-10 23:45 G 13284372.34 13284372.49 13284372.64 0.0297 0.0155

Saturn 31659-07-08 23:17 G 13284461.29 13284461.47 13284461.64 0.0298 0.0036

Jupiter 31659-08-09 21:50 G 13284493.33 13284493.41 13284493.50 0.0521 0.0396

Saturn 31659-10-05 22:05 G 13284550.32 13284550.42 13284550.54 0.0298 0.0225

Jupiter 31659-11-07 04:05 G 13284582.55 13284582.67 13284582.79 0.0518 0.0198

Moon 31661-04-16 16:19 G 13285109.09 13285109.18 13285109.27 0.2654 0.1452

Earth 31661-04-16 16:48 G 13285109.10 13285109.20 13285109.29 0.2659 0.1451 *

Jupiter 31666-01-04 15:50 G 13286832.99 13286833.16 13286833.34 0.0508 0.0031

Uranus 31668-03-08 10:05 G 13287626.84 13287626.92 13287627.03 0.0134 0.0113

Uranus 31668-06-04 16:19 G 13287715.06 13287715.18 13287715.33 0.0134 0.0090

Uranus 31668-08-31 23:02 G 13287803.30 13287803.46 13287803.61 0.0134 0.0066

Uranus 31668-11-28 05:02 G 13287891.54 13287891.71 13287891.89 0.0134 0.0043

Uranus 31669-02-24 11:17 G 13287979.79 13287979.97 13287980.15 0.0134 0.0020

Uranus 31669-05-23 17:31 G 13288068.05 13288068.23 13288068.41 0.0134 0.0004

Uranus 31669-08-19 23:17 G 13288156.30 13288156.47 13288156.66 0.0134 0.0026

Venus 31669-09-25 11:31 G 13288192.94 13288192.98 13288193.01 0.3683 0.3464

Uranus 31669-11-16 05:31 G 13288244.56 13288244.73 13288244.90 0.0134 0.0047

Uranus 31670-02-12 11:17 G 13288332.83 13288332.97 13288333.13 0.0134 0.0070

Uranus 31670-05-11 17:17 G 13288421.10 13288421.22 13288421.35 0.0133 0.0092

Uranus 31670-08-07 23:02 G 13288509.38 13288509.46 13288509.56 0.0133 0.0114

Mars 31671-01-30 22:33 G 13288685.35 13288685.44 13288685.52 0.1733 0.1440

Jupiter 31671-08-26 08:38 G 13288892.73 13288892.86 13288892.99 0.0519 0.0057

Mars 31671-11-25 02:09 G 13288983.49 13288983.59 13288983.69 0.1806 0.1060

Saturn 31673-02-05 01:26 G 13289421.47 13289421.56 13289421.66 0.0265 0.0189

Saturn 31673-05-04 12:00 G 13289509.87 13289510.00 13289510.13 0.0264 0.0088

Saturn 31673-07-31 22:33 G 13289598.30 13289598.44 13289598.58 0.0264 0.0012

Venus 31673-09-26 16:05 G 13289655.10 13289655.17 13289655.23 0.3688 0.3170

Saturn 31673-10-28 09:07 G 13289686.76 13289686.88 13289687.01 0.0263 0.0114

Saturn 31674-01-24 19:55 G 13289775.26 13289775.33 13289775.41 0.0263 0.0215

Moon 31674-04-19 09:36 G 13289859.79 13289859.90 13289860.01 0.2659 0.0259

Earth 31674-04-19 10:19 G 13289859.82 13289859.93 13289860.04 0.2659 0.0102 *

Venus 31675-04-11 05:02 G 13290216.61 13290216.71 13290216.81 0.3682 0.1618

Jupiter 31677-10-23 13:26 G 13291142.89 13291143.06 13291143.23 0.0507 0.0171

Neptune 31678-04-18 06:14 G 13291319.74 13291319.76 13291319.78 0.0089 0.0088

Neptune 31678-07-15 09:21 G 13291407.81 13291407.89 13291407.98 0.0089 0.0078

Neptune 31678-10-11 12:29 G 13291495.92 13291496.02 13291496.15 0.0089 0.0068

Neptune 31679-01-07 15:50 G 13291584.03 13291584.16 13291584.31 0.0089 0.0058

Neptune 31679-04-05 18:57 G 13291672.15 13291672.29 13291672.46 0.0089 0.0048

Venus 31679-04-12 17:02 G 13291679.08 13291679.21 13291679.35 0.3689 0.0188

Neptune 31679-07-02 22:19 G 13291760.27 13291760.43 13291760.61 0.0089 0.0038

Neptune 31679-09-29 01:41 G 13291848.40 13291848.57 13291848.75 0.0089 0.0028

Neptune 31679-12-26 05:02 G 13291936.53 13291936.71 13291936.89 0.0089 0.0018

Neptune 31680-03-23 08:09 G 13292024.66 13292024.84 13292025.03 0.0089 0.0008

Neptune 31680-06-19 11:31 G 13292112.79 13292112.98 13292113.16 0.0089 0.0002

Mars 31680-06-22 00:43 G 13292115.37 13292115.53 13292115.68 0.1725 0.0083

Neptune 31680-09-15 14:38 G 13292200.93 13292201.11 13292201.29 0.0089 0.0012

Venus 31680-10-24 22:33 G 13292240.33 13292240.44 13292240.55 0.3681 0.0301

Neptune 31680-12-12 17:45 G 13292289.07 13292289.24 13292289.42 0.0089 0.0022

Neptune 31681-03-10 20:53 G 13292377.21 13292377.37 13292377.55 0.0089 0.0032

Mars 31681-04-16 10:19 G 13292413.81 13292413.93 13292414.05 0.1814 0.0044

Neptune 31681-06-07 00:00 G 13292465.35 13292465.50 13292465.67 0.0089 0.0042

Neptune 31681-09-03 02:53 G 13292553.49 13292553.62 13292553.79 0.0089 0.0052

Neptune 31681-11-30 06:29 G 13292641.64 13292641.77 13292641.90 0.0089 0.0061

Neptune 31682-02-26 09:21 G 13292729.79 13292729.89 13292730.01 0.0089 0.0071

Neptune 31682-05-25 12:14 G 13292817.95 13292818.01 13292818.10 0.0089 0.0081

Jupiter 31683-06-14 12:57 G 13293202.91 13293203.04 13293203.17 0.0519 0.0085

Jupiter 31683-09-11 19:26 G 13293292.30 13293292.31 13293292.33 0.0516 0.0513

Moon 31684-10-16 19:41 G 13293693.19 13293693.32 13293693.44 0.2679 0.1507

Earth 31684-10-16 20:09 G 13293693.22 13293693.34 13293693.47 0.2672 0.1528 *

Venus 31684-10-26 17:31 G 13293703.18 13293703.23 13293703.29 0.3690 0.3344

Venus 31686-05-10 16:33 G 13294264.10 13294264.19 13294264.28 0.3681 0.2257

Moon 31687-04-22 03:36 G 13294610.55 13294610.65 13294610.75 0.2664 0.1233

Earth 31687-04-22 04:05 G 13294610.57 13294610.67 13294610.77 0.2659 0.1269 *

Saturn 31688-08-27 19:12 G 13295104.19 13295104.30 13295104.41 0.0296 0.0233

Saturn 31688-11-24 18:57 G 13295193.11 13295193.29 13295193.46 0.0297 0.0042

Saturn 31689-02-21 18:00 G 13295282.10 13295282.25 13295282.41 0.0297 0.0149

Jupiter 31689-08-11 11:45 G 13295452.86 13295452.99 13295453.11 0.0507 0.0358

Jupiter 31689-11-09 19:12 G 13295543.21 13295543.30 13295543.40 0.0509 0.0431

Mars 31689-11-12 02:53 G 13295545.52 13295545.62 13295545.73 0.1717 0.1266

Mars 31690-09-06 18:29 G 13295844.18 13295844.27 13295844.36 0.1822 0.1158

Moon 31694-04-15 03:50 G 13297160.62 13297160.66 13297160.70 0.2652 0.2458

Earth 31694-04-15 03:50 G 13297160.63 13297160.66 13297160.70 0.2659 0.2505 *

Jupiter 31695-04-02 16:48 G 13297513.08 13297513.20 13297513.31 0.0519 0.0240

Jupiter 31695-06-30 23:02 G 13297602.36 13297602.46 13297602.55 0.0517 0.0354

Earth 31697-10-20 02:53 G 13298444.48 13298444.62 13298444.75 0.2672 0.1338

Moon 31697-10-20 03:07 G 13298444.50 13298444.63 13298444.77 0.2678 0.1307 *

Moon 31700-04-24 21:50 G 13299361.41 13299361.41 13299361.41 0.2666 0.2663

Jupiter 31701-08-29 17:31 G 13299853.08 13299853.23 13299853.39 0.0509 0.0245

Saturn 31702-06-26 03:50 G 13300153.59 13300153.66 13300153.74 0.0265 0.0221

Saturn 31702-09-22 14:24 G 13300241.98 13300242.10 13300242.22 0.0265 0.0121

Saturn 31702-12-20 00:57 G 13300330.40 13300330.54 13300330.68 0.0264 0.0020

Saturn 31703-03-18 11:31 G 13300418.85 13300418.98 13300419.11 0.0264 0.0082

Saturn 31703-06-14 22:19 G 13300507.33 13300507.43 13300507.53 0.0264 0.0184

Jupiter 31707-01-20 20:53 G 13301823.28 13301823.37 13301823.45 0.0520 0.0387

Moon 31707-04-18 20:53 G 13301911.28 13301911.37 13301911.47 0.2656 0.1306

Earth 31707-04-18 21:36 G 13301911.30 13301911.40 13301911.49 0.2659 0.1175 *

Jupiter 31707-04-20 02:53 G 13301912.50 13301912.62 13301912.74 0.0517 0.0205

Mars 31710-08-01 22:48 G 13303112.39 13303112.45 13303112.50 0.1733 0.1604

Uranus 31710-11-30 02:09 G 13303232.53 13303232.59 13303232.67 0.0145 0.0124

Uranus 31711-02-26 06:14 G 13303320.67 13303320.76 13303320.86 0.0145 0.0103

Uranus 31711-05-25 10:19 G 13303408.82 13303408.93 13303409.04 0.0145 0.0081

Mars 31711-05-27 02:24 G 13303410.51 13303410.60 13303410.69 0.1806 0.1214

Uranus 31711-08-21 14:09 G 13303496.97 13303497.09 13303497.22 0.0145 0.0060

Uranus 31711-11-17 18:14 G 13303585.13 13303585.26 13303585.40 0.0145 0.0038

Uranus 31712-02-13 22:19 G 13303673.30 13303673.43 13303673.57 0.0145 0.0016

Uranus 31712-05-12 02:24 G 13303761.46 13303761.60 13303761.74 0.0145 0.0008

Uranus 31712-08-08 06:29 G 13303849.64 13303849.77 13303849.91 0.0145 0.0030

Uranus 31712-11-04 10:48 G 13303937.82 13303937.95 13303938.08 0.0145 0.0052

Uranus 31713-01-31 14:53 G 13304026.00 13304026.12 13304026.24 0.0145 0.0075

Uranus 31713-04-29 18:57 G 13304114.19 13304114.29 13304114.40 0.0145 0.0098

Jupiter 31713-06-17 15:07 G 13304162.95 13304163.13 13304163.30 0.0508 0.0046

Uranus 31713-07-26 23:02 G 13304202.40 13304202.46 13304202.55 0.0145 0.0121

Uranus 31713-10-23 03:21 G 13304290.64 13304290.64 13304290.67 0.0145 0.0144

Pluto 31715-10-30 14:24 G 13305028.08 13305028.10 13305028.17 0.0075 0.0073

Pluto 31716-01-26 17:31 G 13305116.10 13305116.23 13305116.38 0.0075 0.0054

Pluto 31716-04-23 19:55 G 13305204.17 13305204.33 13305204.52 0.0074 0.0036

Pluto 31716-07-20 22:48 G 13305292.26 13305292.45 13305292.65 0.0074 0.0017

Pluto 31716-10-17 01:41 G 13305380.37 13305380.57 13305380.77 0.0074 0.0002

Pluto 31717-01-13 03:50 G 13305468.48 13305468.66 13305468.87 0.0074 0.0020

Pluto 31717-04-11 06:14 G 13305556.61 13305556.76 13305556.95 0.0074 0.0038

Pluto 31717-07-08 08:53 G 13305644.76 13305644.87 13305645.02 0.0074 0.0056

Pluto 31717-10-04 11:45 G 13305732.97 13305732.99 13305733.02 0.0074 0.0073

Saturn 31718-01-15 17:45 G 13305836.21 13305836.24 13305836.29 0.0296 0.0289

Saturn 31718-04-14 17:45 G 13305925.07 13305925.24 13305925.41 0.0297 0.0095

Saturn 31718-07-12 17:17 G 13306014.05 13306014.22 13306014.38 0.0298 0.0096

Saturn 31718-10-09 16:05 G 13306103.12 13306103.17 13306103.23 0.0298 0.0283

Jupiter 31719-02-06 06:57 G 13306222.66 13306222.79 13306222.92 0.0518 0.0059

Mars 31719-12-23 01:12 G 13306542.40 13306542.55 13306542.70 0.1725 0.0273

Moon 31720-04-20 14:24 G 13306661.99 13306662.10 13306662.21 0.2659 0.0142

Earth 31720-04-20 15:07 G 13306662.02 13306662.13 13306662.24 0.2659 0.0184 *

Mars 31720-10-16 10:19 G 13306840.81 13306840.93 13306841.05 0.1814 0.0106

Jupiter 31725-04-05 12:29 G 13308472.85 13308473.02 13308473.19 0.0507 0.0153

Venus 31726-05-03 09:21 G 13308865.82 13308865.89 13308865.96 0.3682 0.2823

Mars 31729-05-14 03:21 G 13309972.52 13309972.64 13309972.76 0.1717 0.1084

Mars 31730-03-08 18:29 G 13310271.17 13310271.27 13310271.37 0.1822 0.1015

Venus 31730-05-04 16:05 G 13310328.06 13310328.17 13310328.28 0.3689 0.2027

Moon 31730-10-19 02:24 G 13310495.46 13310495.60 13310495.74 0.2679 0.1128

Earth 31730-10-19 02:53 G 13310495.48 13310495.62 13310495.77 0.2672 0.0961 *

Jupiter 31730-11-25 11:31 G 13310532.85 13310532.98 13310533.11 0.0519 0.0085

Jupiter 31731-02-22 18:00 G 13310622.24 13310622.25 13310622.26 0.0517 0.0512

Saturn 31731-11-13 06:29 G 13310885.73 13310885.77 13310885.82 0.0265 0.0250

Venus 31731-11-17 02:53 G 13310889.52 13310889.62 13310889.73 0.3682 0.0966

Saturn 31732-02-09 16:48 G 13310974.09 13310974.20 13310974.32 0.0265 0.0150

Saturn 31732-05-08 03:21 G 13311062.51 13311062.64 13311062.78 0.0264 0.0050

Saturn 31732-08-04 13:55 G 13311150.95 13311151.08 13311151.22 0.0264 0.0052

Saturn 31732-11-01 00:43 G 13311239.42 13311239.53 13311239.64 0.0263 0.0153

Saturn 31733-01-28 11:31 G 13311327.95 13311327.98 13311328.01 0.0263 0.0256

Moon 31733-04-23 08:38 G 13311412.77 13311412.86 13311412.95 0.2665 0.1458

Earth 31733-04-23 08:53 G 13311412.78 13311412.87 13311412.96 0.2659 0.1558 *

Venus 31735-11-18 17:02 G 13312352.08 13312352.21 13312352.33 0.3690 0.1273

Jupiter 31737-01-22 09:50 G 13312782.78 13312782.91 13312783.04 0.0507 0.0354

Jupiter 31737-04-22 17:17 G 13312873.13 13312873.22 13312873.31 0.0509 0.0435

Venus 31737-06-01 20:38 G 13312913.26 13312913.36 13312913.47 0.3681 0.0976

Moon 31740-04-16 08:38 G 13313962.80 13313962.86 13313962.91 0.2652 0.2273

Earth 31740-04-16 08:38 G 13313962.80 13313962.86 13313962.92 0.2659 0.2230 *

Jupiter 31742-09-13 15:50 G 13314843.05 13314843.16 13314843.28 0.0520 0.0226

Jupiter 31742-12-11 22:19 G 13314932.34 13314932.43 13314932.52 0.0517 0.0370

Venus 31742-12-16 14:38 G 13314937.05 13314937.11 13314937.18 0.3680 0.2963

Earth 31743-10-22 09:21 G 13315246.78 13315246.89 13315247.00 0.2672 0.1875

Moon 31743-10-22 10:05 G 13315246.83 13315246.92 13315247.01 0.2678 0.2077 *

Saturn 31747-09-01 13:55 G 13316656.94 13316657.08 13316657.23 0.0296 0.0168

Saturn 31747-11-29 13:41 G 13316745.89 13316746.07 13316746.24 0.0297 0.0025

Saturn 31748-02-26 12:43 G 13316834.91 13316835.03 13316835.15 0.0298 0.0213

Jupiter 31749-02-08 15:50 G 13317183.01 13317183.16 13317183.32 0.0509 0.0250

Mars 31750-11-25 02:09 G 13317837.51 13317837.59 13317837.67 0.1805 0.1345

Uranus 31752-01-01 11:31 G 13318239.94 13318239.98 13318240.04 0.0134 0.0128

Uranus 31752-03-29 17:45 G 13318328.14 13318328.24 13318328.37 0.0134 0.0105

Uranus 31752-06-26 00:00 G 13318416.37 13318416.50 13318416.66 0.0134 0.0082

Uranus 31752-09-22 06:43 G 13318504.61 13318504.78 13318504.94 0.0134 0.0058

Uranus 31752-12-19 12:43 G 13318592.86 13318593.03 13318593.21 0.0134 0.0035

Uranus 31753-03-17 18:57 G 13318681.11 13318681.29 13318681.47 0.0134 0.0012

Moon 31753-04-19 01:41 G 13318713.46 13318713.57 13318713.67 0.2656 0.0939

Earth 31753-04-19 02:24 G 13318713.49 13318713.60 13318713.70 0.2659 0.0900 *

Uranus 31753-06-14 01:12 G 13318769.37 13318769.55 13318769.73 0.0134 0.0011

Uranus 31753-09-10 07:12 G 13318857.62 13318857.80 13318857.97 0.0134 0.0033

Uranus 31753-12-07 12:57 G 13318945.89 13318946.04 13318946.21 0.0133 0.0056

Uranus 31754-03-05 18:57 G 13319034.15 13319034.29 13319034.44 0.0133 0.0078

Uranus 31754-06-02 00:43 G 13319122.43 13319122.53 13319122.66 0.0133 0.0100

Jupiter 31754-07-02 19:41 G 13319153.23 13319153.32 13319153.41 0.0520 0.0378

Uranus 31754-08-29 06:29 G 13319210.72 13319210.77 13319210.86 0.0133 0.0122

Jupiter 31754-09-30 01:55 G 13319242.46 13319242.58 13319242.70 0.0517 0.0214

Neptune 31758-11-02 22:05 G 13320737.42 13320737.42 13320737.44 0.0088 0.0088

Neptune 31759-01-29 23:17 G 13320825.44 13320825.47 13320825.54 0.0088 0.0082

Neptune 31759-04-28 01:12 G 13320913.47 13320913.55 13320913.62 0.0088 0.0074

Mars 31759-06-23 01:41 G 13320969.42 13320969.57 13320969.72 0.1725 0.0448

Neptune 31759-07-25 02:24 G 13321001.52 13321001.60 13321001.69 0.0088 0.0067

Neptune 31759-10-21 03:50 G 13321089.56 13321089.66 13321089.76 0.0088 0.0060

Neptune 31760-01-17 05:17 G 13321177.61 13321177.72 13321177.83 0.0088 0.0052

Neptune 31760-04-14 06:29 G 13321265.66 13321265.77 13321265.90 0.0088 0.0046

Mars 31760-04-16 10:19 G 13321267.81 13321267.93 13321268.05 0.1814 0.0245

Neptune 31760-07-11 07:55 G 13321353.72 13321353.83 13321353.96 0.0088 0.0039

Neptune 31760-10-07 09:21 G 13321441.77 13321441.89 13321442.03 0.0088 0.0032

Jupiter 31760-11-27 13:55 G 13321492.90 13321493.08 13321493.26 0.0508 0.0059

Neptune 31761-01-03 11:02 G 13321529.83 13321529.96 13321530.09 0.0088 0.0024

Neptune 31761-04-01 12:29 G 13321617.88 13321618.02 13321618.15 0.0088 0.0017

Neptune 31761-06-28 13:55 G 13321705.94 13321706.08 13321706.21 0.0088 0.0009

Saturn 31761-06-28 19:12 G 13321706.21 13321706.30 13321706.40 0.0265 0.0183 *

Neptune 31761-09-24 15:21 G 13321794.00 13321794.14 13321794.28 0.0088 0.0002

Saturn 31761-09-25 05:45 G 13321794.61 13321794.74 13321794.87 0.0265 0.0082

Neptune 31761-12-21 16:48 G 13321882.06 13321882.20 13321882.34 0.0088 0.0005

Saturn 31761-12-22 16:19 G 13321883.05 13321883.18 13321883.32 0.0264 0.0021

Neptune 31762-03-19 18:14 G 13321970.12 13321970.26 13321970.40 0.0088 0.0013

Saturn 31762-03-21 03:07 G 13321971.51 13321971.63 13321971.75 0.0264 0.0122

Neptune 31762-06-15 19:41 G 13322058.18 13322058.32 13322058.45 0.0088 0.0020

Saturn 31762-06-17 13:55 G 13322060.01 13322060.08 13322060.15 0.0264 0.0225

Neptune 31762-09-11 20:53 G 13322146.25 13322146.37 13322146.51 0.0088 0.0028

Neptune 31762-12-08 22:33 G 13322234.31 13322234.44 13322234.57 0.0088 0.0034

Neptune 31763-03-06 23:45 G 13322322.38 13322322.49 13322322.62 0.0088 0.0042

Neptune 31763-06-03 01:12 G 13322410.45 13322410.55 13322410.68 0.0088 0.0050

Neptune 31763-08-30 02:53 G 13322498.52 13322498.62 13322498.73 0.0088 0.0057

Neptune 31763-11-26 04:05 G 13322586.59 13322586.67 13322586.78 0.0088 0.0065

Neptune 31764-02-22 05:45 G 13322674.67 13322674.74 13322674.83 0.0088 0.0071

Neptune 31764-05-20 07:26 G 13322762.75 13322762.81 13322762.87 0.0088 0.0079

Neptune 31764-08-16 08:38 G 13322850.85 13322850.86 13322850.90 0.0088 0.0086

Moon 31766-04-21 19:26 G 13323464.20 13323464.31 13323464.42 0.2660 0.0325

Earth 31766-04-21 19:55 G 13323464.22 13323464.33 13323464.44 0.2659 0.0469 *

Jupiter	31766-07-19 05:45 G	13323552.61	13323552.74	13323552.87	0.0518	0.0065
Mars	31768-11-12 03:50 G	13324399.53	13324399.66	13324399.80	0.1718	0.0902
Mars	31769-09-06 18:43 G	13324698.17	13324698.28	13324698.39	0.1822	0.0862
Jupiter	31772-09-15 11:17 G	13325802.80	13325802.97	13325803.14	0.0507	0.0141
Moon	31776-10-19 09:07 G	13327297.73	13327297.88	13327298.03	0.2679	0.0380
Earth	31776-10-19 09:36 G	13327297.74	13327297.90	13327298.05	0.2672	0.0416 *
Saturn	31777-01-18 13:26 G	13327388.95	13327389.06	13327389.19	0.0297	0.0217
Saturn	31777-04-17 13:12 G	13327477.88	13327478.05	13327478.23	0.0297	0.0024
Saturn	31777-07-15 12:29 G	13327566.88	13327567.02	13327567.17	0.0298	0.0165
Jupiter	31778-05-07 09:50 G	13327862.78	13327862.91	13327863.04	0.0519	0.0085
Jupiter	31778-08-04 16:19 G	13327952.17	13327952.18	13327952.20	0.0516	0.0511
Moon	31779-04-24 13:26 G	13328214.98	13328215.06	13328215.14	0.2665	0.1850
Earth	31779-04-24 13:41 G	13328215.00	13328215.07	13328215.15	0.2659	0.1840 *
Venus	31782-12-08 07:26 G	13329538.72	13329538.81	13329538.90	0.3682	0.2173
Jupiter	31784-07-04 08:38 G	13330112.73	13330112.86	13330112.99	0.0507	0.0341
Jupiter	31784-10-02 16:05 G	13330203.09	13330203.17	13330203.26	0.0509	0.0448
Moon	31786-04-17 13:12 G	13330764.98	13330765.05	13330765.12	0.2653	0.1985
Earth	31786-04-17 13:26 G	13330764.99	13330765.06	13330765.14	0.2659	0.1955 *
Venus	31786-12-09 16:05 G	13331001.04	13331001.17	13331001.30	0.3689	0.0901
Venus	31788-06-23 00:57 G	13331562.43	13331562.54	13331562.65	0.3681	0.0292
Earth	31789-10-22 15:50 G	13332049.10	13332049.16	13332049.22	0.2672	0.2421
Moon	31789-10-22 16:48 G	13332049.15	13332049.20	13332049.26	0.2678	0.2450 *
Jupiter	31790-02-23 14:09 G	13332172.98	13332173.09	13332173.21	0.0520	0.0229
Jupiter	31790-05-23 20:38 G	13332262.27	13332262.36	13332262.45	0.0517	0.0367
Mars	31790-05-26 02:24 G	13332264.53	13332264.60	13332264.66	0.1805	0.1489
Saturn	31790-11-15 22:19 G	13332438.34	13332438.43	13332438.51	0.0265	0.0208
Saturn	31791-02-12 08:38 G	13332526.74	13332526.86	13332526.98	0.0265	0.0108
Saturn	31791-05-11 19:12 G	13332615.16	13332615.30	13332615.44	0.0264	0.0007
Saturn	31791-08-08 05:45 G	13332703.62	13332703.74	13332703.87	0.0264	0.0095
Saturn	31791-11-04 16:33 G	13332792.10	13332792.19	13332792.28	0.0263	0.0197

Venus 31792-06-24 16:48 G 13333025.10 13333025.20 13333025.31 0.3690 0.2350

Venus 31794-01-06 18:43 G 13333586.18 13333586.28 13333586.38 0.3681 0.1664

Uranus 31794-09-23 06:00 G 13333845.72 13333845.75 13333845.79 0.0144 0.0139

Uranus 31794-12-20 09:50 G 13333933.84 13333933.91 13333933.99 0.0145 0.0117

Uranus 31795-03-18 13:55 G 13334021.98 13334022.08 13334022.18 0.0145 0.0096

Uranus 31795-06-14 17:45 G 13334110.13 13334110.24 13334110.36 0.0145 0.0074

Uranus 31795-09-10 21:50 G 13334198.29 13334198.41 13334198.54 0.0145 0.0052

Uranus 31795-12-08 01:55 G 13334286.45 13334286.58 13334286.72 0.0145 0.0030

Uranus 31796-03-05 06:00 G 13334374.61 13334374.75 13334374.89 0.0145 0.0008

Uranus 31796-06-01 10:05 G 13334462.78 13334462.92 13334463.06 0.0145 0.0014

Jupiter 31796-07-21 13:41 G 13334512.91 13334513.07 13334513.22 0.0509 0.0249

Uranus 31796-08-28 14:09 G 13334550.96 13334551.09 13334551.23 0.0145 0.0037

Uranus 31796-11-24 18:29 G 13334639.14 13334639.27 13334639.39 0.0145 0.0059

Uranus 31797-02-20 22:33 G 13334727.33 13334727.44 13334727.56 0.0145 0.0082

Uranus 31797-05-20 02:38 G 13334815.52 13334815.61 13334815.71 0.0145 0.0105

Uranus 31797-08-16 06:57 G 13334903.73 13334903.79 13334903.86 0.0145 0.0128

Mars 31798-12-22 02:09 G 13335396.45 13335396.59 13335396.74 0.1725 0.0641

Moon 31799-04-20 06:29 G 13335515.66 13335515.77 13335515.87 0.2656 0.0756

Earth 31799-04-20 06:57 G 13335515.69 13335515.79 13335515.90 0.2659 0.0626 *

Venus 31799-07-23 12:43 G 13335610.03 13335610.03 13335610.04 0.3680 0.3673

Mars 31799-10-16 10:33 G 13335694.82 13335694.94 13335695.06 0.1813 0.0388

Jupiter 31801-12-13 18:43 G 13336483.19 13336483.28 13336483.37 0.0520 0.0370

Jupiter 31802-03-13 00:57 G 13336572.42 13336572.54 13336572.65 0.0518 0.0224

Saturn 31806-06-08 10:05 G 13338120.89 13338120.92 13338120.98 0.0296 0.0285

Saturn 31806-09-05 10:05 G 13338209.76 13338209.92 13338210.09 0.0297 0.0092

Saturn 31806-12-03 09:36 G 13338298.73 13338298.90 13338299.06 0.0297 0.0099

Saturn 31807-03-02 08:24 G 13338387.81 13338387.85 13338387.90 0.0298 0.0286

Jupiter 31808-05-10 11:45 G 13338822.82 13338822.99 13338823.17 0.0508 0.0061

Mars 31808-05-14 04:33 G 13338826.55 13338826.69 13338826.83 0.1718 0.0708

Mars 31809-03-08 18:29 G 13339125.16 13339125.27 13339125.38 0.1822 0.0741

Moon 31812-04-23 00:14 G 13340266.40 13340266.51 13340266.61 0.2662 0.0717

Earth 31812-04-23 00:43 G 13340266.43 13340266.53 13340266.64 0.2659 0.0747 *

Jupiter 31813-10-01 22:33 G 13340793.44 13340793.44 13340793.45 0.0521 0.0519

Jupiter 31813-12-30 04:33 G 13340882.56 13340882.69 13340882.82 0.0518 0.0070

Jupiter 31820-02-27 09:36 G 13343132.73 13343132.90 13343133.07 0.0508 0.0136

Saturn 31820-04-05 00:43 G 13343170.48 13343170.53 13343170.59 0.0266 0.0240

Saturn 31820-07-02 11:02 G 13343258.85 13343258.96 13343259.08 0.0265 0.0140

Saturn 31820-09-28 21:36 G 13343347.27 13343347.40 13343347.54 0.0265 0.0039

Saturn 31820-12-26 08:24 G 13343435.71 13343435.85 13343435.98 0.0264 0.0065

Saturn 31821-03-24 18:57 G 13343524.19 13343524.29 13343524.40 0.0264 0.0167

Moon 31822-10-21 16:05 G 13344100.02 13344100.17 13344100.33 0.2679 0.0152

Earth 31822-10-21 16:05 G 13344100.02 13344100.17 13344100.33 0.2672 0.0152 *

Moon 31825-04-25 18:14 G 13345017.19 13345017.26 13345017.33 0.2665 0.2033

Earth 31825-04-25 18:43 G 13345017.21 13345017.28 13345017.34 0.2659 0.2128 *

Jupiter 31825-10-18 08:38 G 13345192.73 13345192.86 13345192.99 0.0518 0.0081

Jupiter 31826-01-15 14:53 G 13345282.12 13345282.12 13345282.13 0.0516 0.0514

Mars 31829-11-25 02:24 G 13346691.56 13346691.60 13346691.65 0.1805 0.1647

Jupiter 31831-12-16 06:43 G 13347442.65 13347442.78 13347442.92 0.0507 0.0337

Jupiter 31832-03-15 14:24 G 13347533.02 13347533.10 13347533.18 0.0509 0.0453

Moon 31832-04-18 17:45 G 13347567.16 13347567.24 13347567.33 0.2654 0.1717

Earth 31832-04-18 18:14 G 13347567.18 13347567.26 13347567.35 0.2659 0.1676 *

Venus 31833-12-30 12:00 G 13348187.96 13348188.00 13348188.04 0.3683 0.3372

Uranus 31836-01-22 19:12 G 13348941.23 13348941.30 13348941.39 0.0134 0.0120

Saturn 31836-01-23 10:33 G 13348941.78 13348941.94 13348942.10 0.0297 0.0134

Uranus 31836-04-20 01:26 G 13349029.45 13349029.56 13349029.70 0.0134 0.0097

Saturn 31836-04-21 10:05 G 13349030.74 13349030.92 13349031.09 0.0297 0.0057

Uranus 31836-07-17 07:55 G 13349117.69 13349117.83 13349117.99 0.0134 0.0073

Saturn 31836-07-19 08:53 G 13349119.78 13349119.87 13349119.97 0.0298 0.0246

Uranus 31836-10-13 14:09 G 13349205.93 13349206.09 13349206.26 0.0134 0.0050

Uranus 31837-01-09 20:24 G 13349294.18 13349294.35 13349294.53 0.0134 0.0027

Uranus 31837-04-08 02:38 G 13349382.43 13349382.61 13349382.79 0.0133 0.0004

Uranus 31837-07-05 08:38 G 13349470.68 13349470.86 13349471.04 0.0133 0.0018

Jupiter 31837-08-06 12:29 G 13349502.90 13349503.02 13349503.13 0.0520 0.0232

Uranus 31837-10-01 14:38 G 13349558.94 13349559.11 13349559.28 0.0133 0.0041

Jupiter 31837-11-03 18:43 G 13349592.19 13349592.28 13349592.37 0.0517 0.0362

Uranus 31837-12-28 20:38 G 13349647.21 13349647.36 13349647.52 0.0133 0.0063

Venus 31837-12-31 14:53 G 13349650.05 13349650.12 13349650.19 0.3688 0.3172

Uranus 31838-03-27 02:38 G 13349735.48 13349735.61 13349735.75 0.0133 0.0085

Mars 31838-06-23 02:38 G 13349823.48 13349823.61 13349823.75 0.1726 0.0830

Uranus 31838-06-23 08:24 G 13349823.75 13349823.85 13349823.96 0.0133 0.0107 *

Uranus 31838-09-19 14:09 G 13349912.06 13349912.09 13349912.15 0.0133 0.0129

Mars 31839-04-17 10:33 G 13350121.82 13350121.94 13350122.05 0.1813 0.0524

Venus 31839-07-16 05:31 G 13350211.62 13350211.73 13350211.83 0.3682 0.1528

Neptune 31843-01-15 03:50 G 13351490.64 13351490.66 13351490.73 0.0089 0.0086

Neptune 31843-04-13 07:41 G 13351578.72 13351578.82 13351578.92 0.0089 0.0075

Neptune 31843-07-10 10:48 G 13351666.83 13351666.95 13351667.08 0.0089 0.0065

Venus 31843-07-17 16:05 G 13351674.04 13351674.17 13351674.31 0.3689 0.0215

Neptune 31843-10-06 14:09 G 13351754.95 13351755.09 13351755.24 0.0089 0.0055

Jupiter 31844-01-02 12:00 G 13351842.85 13351843.00 13351843.15 0.0509 0.0256

Neptune 31844-01-02 17:17 G 13351843.07 13351843.22 13351843.39 0.0089 0.0045 *

Neptune 31844-03-30 20:38 G 13351931.20 13351931.36 13351931.54 0.0089 0.0035

Neptune 31844-06-26 23:45 G 13352019.32 13352019.49 13352019.68 0.0089 0.0025

Neptune 31844-09-23 03:07 G 13352107.45 13352107.63 13352107.82 0.0089 0.0015

Neptune 31844-12-20 06:29 G 13352195.59 13352195.77 13352195.96 0.0089 0.0005

Venus 31845-01-28 23:02 G 13352235.35 13352235.46 13352235.57 0.3681 0.0385

Neptune 31845-03-18 09:36 G 13352283.72 13352283.90 13352284.09 0.0089 0.0006

Moon 31845-04-21 11:17 G 13352317.86 13352317.97 13352318.08 0.2657 0.0405

Earth 31845-04-21 12:00 G 13352317.89 13352318.00 13352318.11 0.2659 0.0343 *

Neptune 31845-06-14 12:57 G 13352371.86 13352372.04 13352372.22 0.0089 0.0015

Neptune 31845-09-10 16:05 G 13352460.00 13352460.17 13352460.35 0.0089 0.0025

Neptune 31845-12-07 19:12 G 13352548.14 13352548.30 13352548.47 0.0089 0.0035

Neptune 31846-03-05 22:19 G 13352636.28 13352636.43 13352636.59 0.0089 0.0045

Neptune 31846-06-02 01:12 G 13352724.42 13352724.55 13352724.71 0.0089 0.0055

Neptune 31846-08-29 04:19 G 13352812.57 13352812.68 13352812.82 0.0089 0.0065

Neptune 31846-11-25 07:41 G 13352900.73 13352900.82 13352900.93 0.0089 0.0074

Neptune 31847-02-21 10:48 G 13352988.90 13352988.95 13352989.02 0.0089 0.0084

Mars 31847-11-13 05:02 G 13353253.56 13353253.71 13353253.86 0.1718 0.0522

Mars 31848-09-06 18:43 G 13353552.16 13353552.28 13353552.39 0.1822 0.0587

Venus 31849-01-30 16:48 G 13353698.15 13353698.20 13353698.25 0.3690 0.3411

Jupiter 31849-05-25 16:48 G 13353813.11 13353813.20 13353813.28 0.0521 0.0377

Jupiter 31849-08-22 22:48 G 13353902.34 13353902.45 13353902.57 0.0518 0.0217

Saturn 31849-08-23 03:50 G 13353902.65 13353902.66 13353902.68 0.0266 0.0263

Saturn 31849-11-19 14:24 G 13353990.99 13353991.10 13353991.20 0.0265 0.0162

Saturn 31850-02-16 00:57 G 13354079.40 13354079.54 13354079.67 0.0265 0.0062

Saturn 31850-05-15 11:31 G 13354167.84 13354167.98 13354168.11 0.0264 0.0041

Saturn 31850-08-11 22:05 G 13354256.31 13354256.42 13354256.54 0.0264 0.0143

Venus 31850-08-14 16:48 G 13354259.12 13354259.20 13354259.29 0.3681 0.2361

Saturn 31850-11-08 08:53 G 13354344.83 13354344.87 13354344.92 0.0263 0.0246

Moon 31855-10-19 14:53 G 13356151.04 13356151.12 13356151.20 0.2678 0.2285

Earth 31855-10-19 15:50 G 13356151.07 13356151.16 13356151.25 0.2673 0.2200 *

Jupiter 31855-10-21 09:21 G 13356152.71 13356152.89 13356153.06 0.0508 0.0055

Mars 31858-01-28 02:53 G 13356982.58 13356982.62 13356982.66 0.1830 0.1712

Moon 31858-04-24 05:02 G 13357068.61 13357068.71 13357068.81 0.2663 0.0903

Earth 31858-04-24 05:31 G 13357068.63 13357068.73 13357068.84 0.2659 0.1032 *

Jupiter 31861-03-13 21:07 G 13358123.37 13358123.38 13358123.39 0.0521 0.0518

Jupiter 31861-06-11 03:07 G 13358212.50 13358212.63 13358212.76 0.0518 0.0074

Saturn 31865-06-11 08:09 G 13359673.71 13359673.84 13359673.98 0.0296 0.0195

Saturn 31865-09-08 07:55 G 13359762.65 13359762.83 13359763.01 0.0297 0.0003

Saturn 31865-12-06 07:12 G 13359851.66 13359851.80 13359851.93 0.0297 0.0187

Jupiter 31867-08-09 07:12 G 13360462.63 13360462.80 13360462.97 0.0507 0.0140

Earth 31868-10-21 22:33 G 13360902.29 13360902.44 13360902.59 0.2672 0.0700

Moon 31868-10-21 23:02 G 13360902.31 13360902.46 13360902.61 0.2679 0.0753 *

Mars 31869-05-26 02:24 G 13361118.58 13361118.60 13361118.62 0.1805 0.1774

Moon 31871-04-26 23:17 G 13361819.43 13361819.47 13361819.51 0.2665 0.2451

Earth 31871-04-26 23:17 G 13361819.43 13361819.47 13361819.52 0.2659 0.2409 *

Jupiter 31873-03-30 07:12 G 13362522.67 13362522.80 13362522.92 0.0519 0.0080

Pluto 31876-02-12 05:31 G 13363571.73 13363571.73 13363571.76 0.0069 0.0069

Pluto 31876-05-10 06:14 G 13363659.70 13363659.76 13363659.83 0.0070 0.0059

Pluto 31876-08-06 06:57 G 13363747.70 13363747.79 13363747.88 0.0070 0.0049

Pluto 31876-11-02 07:26 G 13363835.70 13363835.81 13363835.92 0.0070 0.0039

Pluto 31877-01-29 07:41 G 13363923.71 13363923.82 13363923.95 0.0070 0.0030

Pluto 31877-04-27 08:24 G 13364011.73 13364011.85 13364011.98 0.0070 0.0020

Pluto 31877-07-24 09:07 G 13364099.75 13364099.88 13364100.01 0.0070 0.0009

Pluto 31877-10-20 09:36 G 13364187.77 13364187.90 13364188.03 0.0070 0.0001

Mars 31877-12-22 03:07 G 13364250.51 13364250.63 13364250.76 0.1726 0.1008

Pluto 31878-01-16 10:05 G 13364275.80 13364275.92 13364276.05 0.0070 0.0011

Pluto 31878-04-14 10:33 G 13364363.82 13364363.94 13364364.07 0.0070 0.0022

Moon 31878-04-19 22:33 G 13364369.35 13364369.44 13364369.53 0.2654 0.1502

Earth 31878-04-19 23:02 G 13364369.37 13364369.46 13364369.56 0.2659 0.1399 *

Pluto 31878-07-11 11:02 G 13364451.86 13364451.96 13364452.09 0.0071 0.0032

Pluto 31878-10-07 11:45 G 13364539.89 13364539.99 13364540.10 0.0071 0.0042

Uranus 31878-10-14 12:57 G 13364547.00 13364547.04 13364547.09 0.0145 0.0134

Mars 31878-10-16 10:33 G 13364548.83 13364548.94 13364549.05 0.1813 0.0673

Pluto 31879-01-03 12:29 G 13364627.93 13364628.02 13364628.11 0.0071 0.0052

Uranus 31879-01-10 17:02 G 13364635.13 13364635.21 13364635.29 0.0145 0.0113

Pluto 31879-04-01 12:43 G 13364715.99 13364716.03 13364716.10 0.0071 0.0063

Saturn 31879-04-08 17:02 G 13364723.12 13364723.21 13364723.30 0.0266 0.0193

Uranus 31879-04-08 20:53 G 13364723.27 13364723.37 13364723.48 0.0145 0.0092 *

Jupiter 31879-05-28 04:19 G 13364772.56 13364772.68 13364772.82 0.0507 0.0340

Uranus 31879-07-06 00:57 G 13364811.42 13364811.54 13364811.66 0.0145 0.0070

Saturn 31879-07-06 03:21 G 13364811.52 13364811.64 13364811.77 0.0265 0.0092 *

Jupiter 31879-08-26 12:14 G 13364862.94 13364863.01 13364863.09 0.0510 0.0454

Uranus 31879-10-02 05:02 G 13364899.58 13364899.71 13364899.84 0.0145 0.0048

Saturn 31879-10-02 14:09 G 13364899.95 13364900.09 13364900.22 0.0265 0.0012

Uranus 31879-12-29 09:07 G 13364987.74 13364987.88 13364988.01 0.0145 0.0026

Saturn 31879-12-30 00:43 G 13364988.41 13364988.53 13364988.66 0.0264 0.0113

Uranus 31880-03-26 13:12 G 13365075.91 13365076.05 13365076.18 0.0145 0.0005

Saturn 31880-03-27 11:31 G 13365076.90 13365076.98 13365077.06 0.0264 0.0216

Uranus 31880-06-22 17:17 G 13365164.08 13365164.22 13365164.36 0.0145 0.0019

Uranus 31880-09-18 21:21 G 13365252.26 13365252.39 13365252.52 0.0145 0.0041

Uranus 31880-12-16 01:26 G 13365340.44 13365340.56 13365340.69 0.0145 0.0064

Uranus 31881-03-14 05:31 G 13365428.63 13365428.73 13365428.85 0.0145 0.0087

Uranus 31881-06-10 09:50 G 13365516.82 13365516.91 13365517.00 0.0145 0.0110

Uranus 31881-09-06 13:55 G 13365605.04 13365605.08 13365605.14 0.0145 0.0134

Jupiter 31885-01-16 11:02 G 13366832.85 13366832.96 13366833.08 0.0519 0.0228

Jupiter 31885-04-15 17:17 G 13366922.13 13366922.22 13366922.31 0.0516 0.0365

Mars 31887-05-14 05:31 G 13367680.57 13367680.73 13367680.88 0.1718 0.0349

Mars 31888-03-07 18:43 G 13367979.16 13367979.28 13367979.40 0.1821 0.0445

Venus 31890-08-06 09:50 G 13368860.84 13368860.91 13368860.98 0.3683 0.2729

Moon 31891-04-22 16:05 G 13369120.06 13369120.17 13369120.28 0.2659 0.0149

Earth 31891-04-22 16:48 G 13369120.09 13369120.20 13369120.31 0.2659 0.0080 *

Jupiter 31891-06-14 09:50 G 13369172.76 13369172.91 13369173.06 0.0509 0.0255

Venus 31894-08-07 14:53 G 13370323.01 13370323.12 13370323.24 0.3689 0.2034

Saturn 31894-10-29 08:38 G 13370405.76 13370405.86 13370405.98 0.0296 0.0235

Saturn 31895-01-26 08:38 G 13370494.68 13370494.86 13370495.03 0.0297 0.0043

Saturn 31895-04-25 07:55 G 13370583.68 13370583.83 13370583.98 0.0297 0.0148

Venus 31896-02-20 03:21 G 13370884.53 13370884.64 13370884.75 0.3682 0.0871

Mars 31896-10-03 07:41 G 13371110.80 13371110.82 13371110.85 0.1711 0.1681

Jupiter 31896-11-04 14:53 G 13371143.04 13371143.12 13371143.21 0.0520 0.0382

Jupiter 31897-02-01 21:07 G 13371232.26 13371232.38 13371232.50 0.0518 0.0211

Mars 31897-07-29 02:53 G 13371409.56 13371409.62 13371409.68 0.1829 0.1568

Venus 31900-02-21 16:05 G 13372347.04 13372347.17 13372347.29 0.3690 0.1307

Venus 31901-09-05 21:07 G 13372908.27 13372908.38 13372908.48 0.3681 0.1071

Moon 31901-10-20 21:50 G 13372953.30 13372953.41 13372953.52 0.2679 0.1793

Earth 31901-10-20 22:33 G 13372953.31 13372953.44 13372953.56 0.2673 0.1635 *

Jupiter 31903-04-03 07:26 G 13373482.63 13373482.81 13373482.98 0.0508 0.0057

Moon 31904-04-25 09:50 G 13373870.82 13373870.91 13373871.01 0.2664 0.1273

Earth 31904-04-25 10:33 G 13373870.84 13373870.94 13373871.03 0.2659 0.1315 *

Venus 31907-03-22 14:53 G 13374932.06 13374932.12 13374932.18 0.3680 0.3050

Saturn 31908-08-26 20:24 G 13375455.28 13375455.35 13375455.44 0.0266 0.0213

Jupiter 31908-11-22 01:12 G 13375542.42 13375542.55 13375542.68 0.0519 0.0064

Saturn 31908-11-23 06:57 G 13375543.67 13375543.79 13375543.91 0.0265 0.0112

Saturn 31909-02-19 17:31 G 13375632.09 13375632.23 13375632.37 0.0264 0.0011

Saturn 31909-05-19 04:19 G 13375720.55 13375720.68 13375720.80 0.0264 0.0092

Saturn 31909-08-15 14:53 G 13375809.03 13375809.12 13375809.22 0.0264 0.0195

Moon 31911-04-19 10:19 G 13376420.89 13376420.93 13376420.96 0.2652 0.2514

Earth 31911-04-19 10:19 G 13376420.89 13376420.93 13376420.97 0.2658 0.2451 *

Earth 31914-10-24 05:17 G 13377704.58 13377704.72 13377704.85 0.2672 0.1245

Moon 31914-10-24 05:45 G 13377704.61 13377704.74 13377704.87 0.2679 0.1346 *

Jupiter 31915-01-20 04:19 G 13377792.51 13377792.68 13377792.85 0.0507 0.0150

Moon 31917-04-28 04:19 G 13378621.68 13378621.68 13378621.68 0.2665 0.2665

Mars 31917-06-23 03:36 G 13378677.54 13378677.65 13378677.76 0.1726 0.1194

Mars 31918-04-17 10:33 G 13378975.83 13378975.94 13378976.05 0.1813 0.0810

Uranus 31920-02-13 02:53 G 13379642.54 13379642.62 13379642.74 0.0134 0.0112

Uranus 31920-05-11 09:36 G 13379730.77 13379730.90 13379731.04 0.0134 0.0088

Uranus 31920-08-07 15:50 G 13379819.00 13379819.16 13379819.32 0.0134 0.0065

Jupiter 31920-09-10 05:31 G 13379852.60 13379852.73 13379852.86 0.0519 0.0081

Uranus 31920-11-03 22:05 G 13379907.25 13379907.42 13379907.59 0.0134 0.0042

Jupiter 31920-12-08 11:45 G 13379941.99 13379941.99 13379942.00 0.0516 0.0516

Uranus 31921-01-31 04:05 G 13379995.50 13379995.67 13379995.86 0.0133 0.0020

Uranus 31921-04-29 10:19 G 13380083.75 13380083.93 13380084.11 0.0133 0.0004

Uranus 31921-07-26 16:19 G 13380172.01 13380172.18 13380172.36 0.0133 0.0027

Uranus 31921-10-22 22:33 G 13380260.27 13380260.44 13380260.60 0.0133 0.0049

Uranus 31922-01-19 04:05 G 13380348.54 13380348.67 13380348.84 0.0133 0.0072

Uranus 31922-04-17 10:05 G 13380436.81 13380436.92 13380437.06 0.0133 0.0093

Uranus 31922-07-14 16:19 G 13380525.09 13380525.18 13380525.27 0.0133 0.0115

Neptune 31923-08-01 21:50 G 13380908.38 13380908.41 13380908.43 0.0088 0.0086

Neptune 31923-10-28 23:02 G 13380996.41 13380996.46 13380996.52 0.0088 0.0079

Neptune 31924-01-25 00:29 G 13381084.44 13381084.52 13381084.60 0.0088 0.0072

Saturn 31924-03-18 07:12 G 13381137.78 13381137.80 13381137.84 0.0296 0.0290

Moon 31924-04-21 03:21 G 13381171.54 13381171.64 13381171.74 0.2654 0.1150

Earth 31924-04-21 03:50 G 13381171.56 13381171.66 13381171.76 0.2659 0.1122 *

Neptune 31924-04-22 01:41 G 13381172.49 13381172.57 13381172.67 0.0088 0.0065

Saturn 31924-06-15 07:12 G 13381226.63 13381226.80 13381226.97 0.0296 0.0097

Neptune 31924-07-19 03:07 G 13381260.54 13381260.63 13381260.74 0.0088 0.0058

Saturn 31924-09-12 06:29 G 13381315.61 13381315.77 13381315.94 0.0297 0.0095

Neptune 31924-10-15 04:33 G 13381348.59 13381348.69 13381348.81 0.0088 0.0051

Saturn 31924-12-10 05:17 G 13381404.68 13381404.72 13381404.79 0.0297 0.0283

Neptune 31925-01-11 06:00 G 13381436.64 13381436.75 13381436.87 0.0088 0.0043

Neptune 31925-04-09 07:26 G 13381524.69 13381524.81 13381524.94 0.0088 0.0036

Neptune 31925-07-06 08:53 G 13381612.74 13381612.87 13381613.00 0.0088 0.0029

Neptune 31925-10-02 10:19 G 13381700.80 13381700.93 13381701.07 0.0088 0.0022

Neptune 31925-12-29 11:45 G 13381788.86 13381788.99 13381789.13 0.0088 0.0014

Neptune 31926-03-27 13:12 G 13381876.92 13381877.05 13381877.19 0.0088 0.0007

Neptune 31926-06-23 14:38 G 13381964.97 13381965.11 13381965.25 0.0088 0.0001

Neptune 31926-09-19 16:05 G 13382053.03 13382053.17 13382053.31 0.0088 0.0007

Jupiter 31926-11-08 01:55 G 13382102.45 13382102.58 13382102.71 0.0507 0.0346

Mars 31926-11-13 06:00 G 13382107.60 13382107.75 13382107.91 0.1718 0.0148

Neptune 31926-12-16 17:31 G 13382141.10 13382141.23 13382141.37 0.0088 0.0015

Jupiter 31927-02-06 09:36 G 13382192.82 13382192.90 13382192.99 0.0509 0.0445

Neptune 31927-03-14 18:57 G 13382229.16 13382229.29 13382229.43 0.0088 0.0022

Neptune 31927-06-10 20:24 G 13382317.22 13382317.35 13382317.48 0.0088 0.0029

Neptune 31927-09-06 21:50 G 13382405.29 13382405.41 13382405.54 0.0088 0.0037

Mars 31927-09-07 18:43 G 13382406.16 13382406.28 13382406.40 0.1821 0.0310

Neptune 31927-12-03 23:02 G 13382493.35 13382493.46 13382493.59 0.0088 0.0045

Neptune 31928-03-01 00:43 G 13382581.42 13382581.53 13382581.65 0.0088 0.0051

Neptune 31928-05-28 02:09 G 13382669.49 13382669.59 13382669.70 0.0088 0.0059

Neptune 31928-08-24 03:36 G 13382757.57 13382757.65 13382757.75 0.0088 0.0066

Neptune 31928-11-20 05:02 G 13382845.64 13382845.71 13382845.79 0.0088 0.0074

Neptune 31929-02-16 06:29 G 13382933.73 13382933.77 13382933.83 0.0088 0.0081

Neptune 31929-05-15 08:09 G 13383021.84 13383021.84 13383021.84 0.0088 0.0088

Jupiter 31932-06-29 09:36 G 13384162.78 13384162.90 13384163.01 0.0519 0.0229

Jupiter 31932-09-26 15:50 G 13384252.06 13384252.16 13384252.25 0.0517 0.0364

Mars 31936-04-04 07:55 G 13385537.77 13385537.83 13385537.91 0.1711 0.1512

Mars 31937-01-28 03:07 G 13385836.55 13385836.63 13385836.70 0.1829 0.1421

Moon 31937-04-23 20:53 G 13385922.26 13385922.37 13385922.48 0.2661 0.0106

Earth 31937-04-23 21:36 G 13385922.29 13385922.40 13385922.51 0.2659 0.0232 *

Saturn 31938-01-13 23:02 G 13386187.42 13386187.46 13386187.52 0.0266 0.0244

Saturn 31938-04-12 09:36 G 13386275.79 13386275.90 13386276.02 0.0266 0.0142

Saturn 31938-07-09 20:09 G 13386364.21 13386364.34 13386364.48 0.0265 0.0040

Saturn 31938-10-06 06:57 G 13386452.65 13386452.79 13386452.92 0.0265 0.0063

Jupiter 31938-11-25 07:12 G 13386502.65 13386502.80 13386502.96 0.0509 0.0249

Saturn 31939-01-02 17:31 G 13386541.13 13386541.23 13386541.34 0.0264 0.0166

Jupiter 31944-04-17 13:26 G 13388472.98 13388473.06 13388473.15 0.0520 0.0379

Jupiter 31944-07-15 19:41 G 13388562.20 13388562.32 13388562.44 0.0517 0.0213

Venus 31947-03-14 07:41 G 13389533.73 13389533.82 13389533.91 0.3682 0.2096

Moon 31947-10-22 04:48 G 13389755.56 13389755.70 13389755.84 0.2679 0.1026

Earth 31947-10-22 05:02 G 13389755.57 13389755.71 13389755.85 0.2673 0.1081 *

Moon 31950-04-26 14:53 G 13390673.03 13390673.12 13390673.21 0.2664 0.1516

Earth 31950-04-26 15:21 G 13390673.05 13390673.14 13390673.22 0.2659 0.1598 *

Jupiter 31950-09-13 04:48 G 13390812.52 13390812.70 13390812.87 0.0508 0.0049

Venus 31951-03-15 15:07 G 13390996.00 13390996.13 13390996.26 0.3689 0.0899

Venus 31952-09-27 01:26 G 13391557.44 13391557.56 13391557.67 0.3682 0.0250

Saturn 31953-11-02 08:09 G 13391958.69 13391958.84 13391959.00 0.0296 0.0133

Saturn 31954-01-30 07:41 G 13392047.65 13392047.82 13392048.00 0.0297 0.0059

Saturn 31954-04-29 06:43 G 13392136.69 13392136.78 13392136.88 0.0298 0.0248

Jupiter 31956-05-03 23:17 G 13392872.34 13392872.47 13392872.60 0.0518 0.0057

Venus 31956-09-28 15:50 G 13393020.06 13393020.16 13393020.26 0.3690 0.2377

Mars 31956-12-22 04:19 G 13393104.59 13393104.68 13393104.77 0.1726 0.1390

Moon 31957-04-19 14:53 G 13393223.06 13393223.12 13393223.18 0.2652 0.2149

Earth 31957-04-19 15:07 G 13393223.07 13393223.13 13393223.19 0.2658 0.2177 *

Mars 31957-10-16 10:33 G 13393402.84 13393402.94 13393403.05 0.1813 0.0954

Venus 31958-04-12 19:12 G 13393581.20 13393581.30 13393581.39 0.3681 0.1759

Earth 31960-10-24 11:45 G 13394506.87 13394506.99 13394507.10 0.2673 0.1786

Moon 31960-10-24 12:14 G 13394506.90 13394507.01 13394507.13 0.2679 0.1826 *

Pluto 31962-03-22 04:05 G 13395020.57 13395020.67 13395020.79 0.0075 0.0062

Pluto 31962-06-18 06:29 G 13395108.63 13395108.77 13395108.95 0.0074 0.0044

Jupiter 31962-07-02 02:09 G 13395122.42 13395122.59 13395122.76 0.0507 0.0151

Pluto 31962-09-14 09:36 G 13395196.71 13395196.90 13395197.09 0.0074 0.0025

Uranus 31962-11-04 19:55 G 13395248.28 13395248.33 13395248.39 0.0145 0.0131

Pluto 31962-12-11 12:14 G 13395284.81 13395285.01 13395285.21 0.0074 0.0006

Uranus 31963-02-01 00:00 G 13395336.41 13395336.50 13395336.59 0.0145 0.0109

Pluto 31963-03-09 14:38 G 13395372.92 13395373.11 13395373.32 0.0074 0.0012

Uranus 31963-04-30 03:50 G 13395424.56 13395424.66 13395424.77 0.0145 0.0088

Pluto 31963-06-05 17:17 G 13395461.04 13395461.22 13395461.41 0.0074 0.0030

Uranus 31963-07-27 07:55 G 13395512.71 13395512.83 13395512.95 0.0145 0.0066

Pluto 31963-09-01 19:41 G 13395549.18 13395549.32 13395549.49 0.0074 0.0048

Uranus 31963-10-23 12:00 G 13395600.87 13395601.00 13395601.13 0.0145 0.0044

Pluto 31963-11-28 22:05 G 13395637.35 13395637.42 13395637.53 0.0074 0.0066

Uranus 31964-01-19 16:05 G 13395689.03 13395689.17 13395689.30 0.0145 0.0022

Uranus 31964-04-16 20:09 G 13395777.20 13395777.34 13395777.48 0.0145 0.0003

Uranus 31964-07-14 00:14 G 13395865.37 13395865.51 13395865.64 0.0145 0.0023

Uranus 31964-10-10 04:19 G 13395953.55 13395953.68 13395953.81 0.0145 0.0046

Uranus 31965-01-06 08:24 G 13396041.73 13396041.85 13396041.98 0.0145 0.0069

Uranus 31965-04-04 12:43 G 13396129.92 13396130.03 13396130.14 0.0145 0.0091

Uranus 31965-07-01 16:48 G 13396218.12 13396218.20 13396218.29 0.0145 0.0114

Uranus 31965-09-27 21:07 G 13396306.34 13396306.38 13396306.42 0.0145 0.0138

Mars 31966-05-14 06:29 G 13396534.62 13396534.77 13396534.93 0.1718 0.0041

Mars 31967-03-08 18:43 G 13396833.16 13396833.28 13396833.40 0.1821 0.0172

Saturn 31967-06-03 02:53 G 13396919.60 13396919.62 13396919.65 0.0266 0.0261

Saturn 31967-08-30 13:26 G 13397007.95 13397008.06 13397008.17 0.0265 0.0160

Saturn 31967-11-27 00:00 G 13397096.36 13397096.50 13397096.63 0.0265 0.0059

Jupiter 31968-02-21 03:21 G 13397182.51 13397182.64 13397182.76 0.0519 0.0094

Saturn 31968-02-23 10:33 G 13397184.80 13397184.94 13397185.07 0.0264 0.0044

Jupiter 31968-05-20 09:36 G 13397271.88 13397271.90 13397271.93 0.0517 0.0503

Saturn 31968-05-21 21:07 G 13397273.27 13397273.38 13397273.50 0.0264 0.0147

Saturn 31968-08-18 07:55 G 13397361.79 13397361.83 13397361.88 0.0264 0.0250

Moon 31970-04-22 08:09 G 13397973.74 13397973.84 13397973.94 0.2655 0.0978

Earth 31970-04-22 08:38 G 13397973.76 13397973.86 13397973.97 0.2658 0.0846 *

Jupiter 31974-04-19 22:48 G 13399432.33 13399432.45 13399432.58 0.0506 0.0358

Jupiter 31974-07-19 06:43 G 13399522.69 13399522.78 13399522.87 0.0509 0.0432

Mars 31975-10-04 08:38 G 13399964.77 13399964.86 13399964.96 0.1711 0.1312

Mars 31976-07-29 03:07 G 13400263.54 13400263.63 13400263.71 0.1829 0.1289

Jupiter 31979-12-10 07:41 G 13401492.70 13401492.82 13401492.93 0.0520 0.0237

Jupiter 31980-03-08 13:55 G 13401581.98 13401582.08 13401582.17 0.0517 0.0358

Saturn 31983-03-22 07:12 G 13402690.67 13402690.80 13402690.94 0.0296 0.0184

Moon 31983-04-25 01:41 G 13402724.46 13402724.57 13402724.68 0.2661 0.0452

Earth 31983-04-25 02:24 G 13402724.49 13402724.60 13402724.71 0.2659 0.0510 *

Saturn 31983-06-19 06:57 G 13402779.61 13402779.79 13402779.97 0.0297 0.0008

Saturn 31983-09-16 06:00 G 13402868.62 13402868.75 13402868.88 0.0297 0.0197

Jupiter	**31986-05-07 04:19**	**G**	**13403832.53**	**13403832.68**	**13403832.84**	**0.0509**	**0.0239**	
Jupiter	**31991-09-28 11:45**	**G**	**13405802.91**	**13405802.99**	**13405803.08**	**0.0520**	**0.0382**	
Jupiter	**31991-12-26 17:45**	**G**	**13405892.12**	**13405892.24**	**13405892.36**	**0.0517**	**0.0209**	
Earth	**31993-10-22 11:45**	**G**	**13406557.83**	**13406557.99**	**13406558.14**	**0.2673**	**0.0518**	
Moon	**31993-10-22 11:45**	**G**	**13406557.84**	**13406557.99**	**13406558.14**	**0.2680**	**0.0623**	*
Moon	**31996-04-26 19:41**	**G**	**13407475.25**	**13407475.32**	**13407475.40**	**0.2664**	**0.1838**	
Earth	**31996-04-26 20:09**	**G**	**13407475.26**	**13407475.34**	**13407475.41**	**0.2659**	**0.1882**	*
Mars	**31996-06-22 04:33**	**G**	**13407531.63**	**13407531.69**	**13407531.75**	**0.1726**	**0.1563**	
Saturn	**31997-01-16 16:05**	**G**	**13407740.08**	**13407740.17**	**13407740.27**	**0.0266**	**0.0189**	
Saturn	**31997-04-15 02:38**	**G**	**13407828.48**	**13407828.61**	**13407828.74**	**0.0266**	**0.0088**	
Mars	**31997-04-16 10:48**	**G**	**13407829.85**	**13407829.95**	**13407830.04**	**0.1813**	**0.1103**	
Saturn	**31997-07-12 13:12**	**G**	**13407916.91**	**13407917.05**	**13407917.19**	**0.0265**	**0.0015**	
Saturn	**31997-10-08 23:45**	**G**	**13408005.37**	**13408005.49**	**13408005.62**	**0.0265**	**0.0118**	
Saturn	**31998-01-05 10:33**	**G**	**13408093.87**	**13408093.94**	**13408094.02**	**0.0264**	**0.0222**	
Jupiter	**31998-02-23 01:55**	**G**	**13408142.40**	**13408142.58**	**13408142.75**	**0.0508**	**0.0039**	
Venus	**31998-04-04 12:14**	**G**	**13408182.97**	**13408183.01**	**13408183.06**	**0.3683**	**0.3293**	

33RD MILLENNIUM CE

This is a list of transits of Mercury in the 33rd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	**32002-04-05 13:41**	**G**	**13409645.01**	**13409645.07**	**13409645.14**	**0.3688**	**0.3198**	
Moon	**32003-04-20 19:41**	**G**	**13410025.25**	**13410025.32**	**13410025.39**	**0.2652**	**0.1996**	
Earth	**32003-04-20 19:55**	**G**	**13410025.25**	**13410025.33**	**13410025.41**	**0.2658**	**0.1900**	*

Jupiter 32003-10-14 21:50 G 13410202.28 13410202.41 13410202.54 0.0518 0.0059

Venus 32003-10-19 05:45 G 13410206.64 13410206.74 13410206.84 0.3682 0.1439

Uranus 32003-12-07 04:19 G 13410255.64 13410255.68 13410255.75 0.0134 0.0127

Uranus 32004-03-04 10:33 G 13410343.84 13410343.94 13410344.07 0.0134 0.0104

Uranus 32004-05-31 17:02 G 13410432.07 13410432.21 13410432.36 0.0134 0.0080

Uranus 32004-08-27 23:31 G 13410520.31 13410520.48 13410520.64 0.0134 0.0057

Uranus 32004-11-24 05:45 G 13410608.56 13410608.74 13410608.91 0.0134 0.0034

Uranus 32005-02-20 11:45 G 13410696.81 13410696.99 13410697.18 0.0133 0.0012

Uranus 32005-05-19 18:00 G 13410785.07 13410785.25 13410785.43 0.0133 0.0012

Uranus 32005-08-16 00:00 G 13410873.33 13410873.50 13410873.68 0.0133 0.0034

Uranus 32005-11-12 06:00 G 13410961.59 13410961.75 13410961.92 0.0133 0.0057

Mars 32005-11-12 06:57 G 13410961.64 13410961.79 13410961.95 0.1719 0.0222 *

Uranus 32006-02-08 12:00 G 13411049.86 13411050.00 13411050.15 0.0133 0.0079

Uranus 32006-05-07 18:00 G 13411138.14 13411138.25 13411138.37 0.0133 0.0101

Uranus 32006-08-03 23:45 G 13411226.43 13411226.49 13411226.56 0.0133 0.0122

Mars 32006-09-06 18:57 G 13411260.17 13411260.29 13411260.41 0.1821 0.0022

Earth 32006-10-25 18:14 G 13411309.19 13411309.26 13411309.34 0.2673 0.2328

Moon 32006-10-25 19:12 G 13411309.25 13411309.30 13411309.35 0.2678 0.2514 *

Neptune 32007-10-13 01:41 G 13411661.53 13411661.57 13411661.65 0.0089 0.0084

Venus 32007-10-20 14:53 G 13411668.99 13411669.12 13411669.26 0.3689 0.0253

Neptune 32008-01-09 05:02 G 13411749.62 13411749.71 13411749.83 0.0089 0.0074

Neptune 32008-04-06 08:09 G 13411837.73 13411837.84 13411837.99 0.0089 0.0064

Neptune 32008-07-03 12:00 G 13411925.85 13411926.00 13411926.15 0.0089 0.0053

Neptune 32008-09-29 15:07 G 13412013.97 13412014.13 13412014.30 0.0089 0.0043

Neptune 32008-12-26 18:29 G 13412102.10 13412102.27 13412102.45 0.0089 0.0033

Neptune 32009-03-24 21:36 G 13412190.23 13412190.40 13412190.59 0.0089 0.0023

Venus 32009-05-03 23:17 G 13412230.36 13412230.47 13412230.58 0.3681 0.0491

Neptune 32009-06-21 00:57 G 13412278.36 13412278.54 13412278.73 0.0089 0.0013

Neptune 32009-09-17 04:19 G 13412366.49 13412366.68 13412366.86 0.0089 0.0003

Jupiter 32009-12-11 23:17 G 13412452.30 13412452.47 13412452.64 0.0507 0.0162

Neptune 32009-12-14 07:26 G 13412454.63 13412454.81 13412455.00 0.0089 0.0007

Neptune 32010-03-12 10:48 G 13412542.77 13412542.95 13412543.13 0.0089 0.0017

Neptune 32010-06-08 13:55 G 13412630.91 13412631.08 13412631.26 0.0089 0.0027

Neptune 32010-09-04 17:02 G 13412719.05 13412719.21 13412719.38 0.0089 0.0037

Neptune 32010-12-01 20:09 G 13412807.19 13412807.34 13412807.50 0.0089 0.0047

Neptune 32011-02-27 23:17 G 13412895.34 13412895.47 13412895.62 0.0089 0.0057

Neptune 32011-05-27 02:09 G 13412983.49 13412983.59 13412983.73 0.0089 0.0067

Neptune 32011-08-23 05:45 G 13413071.65 13413071.74 13413071.83 0.0089 0.0077

Neptune 32011-11-19 08:38 G 13413159.83 13413159.86 13413159.91 0.0089 0.0086

Saturn 32012-08-08 08:09 G 13413422.72 13413422.84 13413422.96 0.0296 0.0221

Saturn 32012-11-05 07:55 G 13413511.65 13413511.83 13413512.00 0.0297 0.0029

Saturn 32013-02-02 06:57 G 13413600.65 13413600.79 13413600.94 0.0297 0.0162

Venus 32013-05-05 15:36 G 13413693.11 13413693.15 13413693.20 0.3690 0.3453

Venus 32014-11-17 17:02 G 13414254.13 13414254.21 13414254.30 0.3681 0.2454

Mars 32015-04-04 09:07 G 13414391.77 13414391.88 13414392.00 0.1711 0.1125

Jupiter 32015-08-03 01:26 G 13414512.43 13414512.56 13414512.68 0.0519 0.0102

Jupiter 32015-10-31 07:41 G 13414601.79 13414601.82 13414601.86 0.0516 0.0495

Mars 32016-01-28 02:53 G 13414690.53 13414690.62 13414690.72 0.1829 0.1154

Moon 32016-04-22 12:57 G 13414775.93 13414776.04 13414776.14 0.2657 0.0603

Earth 32016-04-22 13:26 G 13414775.96 13414776.06 13414776.17 0.2658 0.0571 *

Jupiter 32021-09-29 20:38 G 13416762.23 13416762.36 13416762.49 0.0506 0.0361

Jupiter 32021-12-29 04:33 G 13416852.59 13416852.69 13416852.78 0.0509 0.0431

Saturn 32026-06-05 19:55 G 13418472.25 13418472.33 13418472.41 0.0266 0.0207

Saturn 32026-09-02 06:29 G 13418560.64 13418560.77 13418560.89 0.0265 0.0106

Saturn 32026-11-29 17:02 G 13418649.07 13418649.21 13418649.34 0.0265 0.0005

Saturn 32027-02-26 03:36 G 13418737.52 13418737.65 13418737.78 0.0264 0.0099

Jupiter 32027-05-22 05:17 G 13418822.61 13418822.72 13418822.84 0.0520 0.0251

Saturn 32027-05-25 14:24 G 13418826.01 13418826.10 13418826.19 0.0264 0.0203

Jupiter 32027-08-19 11:31 G 13418911.89 13418911.98 13418912.08 0.0517 0.0345

Moon 32029-04-25 06:29 G 13419526.66 13419526.77 13419526.88 0.2661 0.0648

Earth 32029-04-25 07:12 G 13419526.69 13419526.80 13419526.90 0.2658 0.0791 *

Jupiter 32033-10-17 01:26 G 13421162.41 13421162.56 13421162.72 0.0508 0.0227

Mars 32036-10-15 10:48 G 13422256.86 13422256.95 13422257.04 0.1812 0.1246

Jupiter 32039-03-10 09:36 G 13423132.82 13423132.90 13423132.99 0.0521 0.0394

Jupiter 32039-06-07 15:50 G 13423222.04 13423222.16 13423222.28 0.0518 0.0200

Moon 32039-10-23 18:14 G 13423360.11 13423360.26 13423360.42 0.2680 0.0173

Earth 32039-10-23 18:14 G 13423360.11 13423360.26 13423360.42 0.2673 0.0049 *

Saturn 32041-12-26 07:41 G 13424154.75 13424154.82 13424154.89 0.0296 0.0269

Saturn 32042-03-25 07:26 G 13424243.64 13424243.81 13424243.98 0.0296 0.0076

Moon 32042-04-28 00:43 G 13424277.47 13424277.53 13424277.59 0.2665 0.2177

Earth 32042-04-28 00:57 G 13424277.47 13424277.54 13424277.60 0.2659 0.2162 *

Saturn 32042-06-22 06:43 G 13424332.62 13424332.78 13424332.95 0.0297 0.0116

Mars 32045-05-13 07:26 G 13425388.66 13425388.81 13425388.96 0.1719 0.0413

Jupiter 32045-08-04 23:02 G 13425472.28 13425472.46 13425472.64 0.0508 0.0030

Mars 32046-03-07 18:43 G 13425687.16 13425687.28 13425687.41 0.1821 0.0130

Uranus 32046-11-25 02:53 G 13425949.56 13425949.62 13425949.69 0.0145 0.0127

Uranus 32047-02-21 06:43 G 13426037.70 13426037.78 13426037.88 0.0145 0.0106

Uranus 32047-05-20 10:48 G 13426125.84 13426125.95 13426126.06 0.0145 0.0084

Uranus 32047-08-16 14:53 G 13426213.99 13426214.12 13426214.24 0.0145 0.0062

Uranus 32047-11-12 18:57 G 13426302.15 13426302.29 13426302.42 0.0145 0.0040

Uranus 32048-02-08 22:48 G 13426390.32 13426390.45 13426390.59 0.0145 0.0018

Uranus 32048-05-07 02:53 G 13426478.49 13426478.62 13426478.76 0.0145 0.0006

Uranus 32048-08-03 06:57 G 13426566.66 13426566.79 13426566.93 0.0145 0.0027

Uranus 32048-10-30 11:02 G 13426654.84 13426654.96 13426655.10 0.0145 0.0050

Uranus 32049-01-26 15:21 G 13426743.02 13426743.14 13426743.26 0.0145 0.0072

Moon 32049-04-21 00:14 G 13426827.43 13426827.51 13426827.60 0.2652 0.1629

Earth 32049-04-21 00:43 G 13426827.44 13426827.53 13426827.62 0.2658 0.1627 *

Uranus 32049-04-24 19:26 G 13426831.21 13426831.31 13426831.42 0.0145 0.0096

Uranus 32049-07-21 23:45 G 13426919.41 13426919.49 13426919.57 0.0145 0.0118

Uranus 32049-10-18 04:05 G 13427007.64 13427007.67 13427007.70 0.0145 0.0142

Jupiter 32051-03-26 19:55 G 13427532.20 13427532.33 13427532.46 0.0518 0.0056

Mars 32054-10-03 09:36 G 13428818.77 13428818.90 13428819.03 0.1711 0.0948

Venus 32054-11-09 10:19 G 13428855.85 13428855.93 13428856.00 0.3682 0.2650

Mars 32055-07-29 03:07 G 13429117.53 13429117.63 13429117.73 0.1829 0.0995

Saturn 32055-10-23 22:33 G 13429204.39 13429204.44 13429204.51 0.0266 0.0236

Saturn 32056-01-20 09:07 G 13429292.77 13429292.88 13429293.00 0.0266 0.0135

Saturn 32056-04-17 19:41 G 13429381.18 13429381.32 13429381.45 0.0265 0.0033

Saturn 32056-07-15 06:14 G 13429469.63 13429469.76 13429469.89 0.0265 0.0070

Saturn 32056-10-11 17:02 G 13429558.11 13429558.21 13429558.31 0.0264 0.0173

Jupiter 32057-05-23 20:09 G 13429782.18 13429782.34 13429782.51 0.0508 0.0175

Venus 32058-11-10 13:55 G 13430317.96 13430318.08 13430318.19 0.3688 0.2034

Venus 32060-05-25 03:36 G 13430879.55 13430879.65 13430879.76 0.3682 0.0787

Moon 32062-04-23 17:31 G 13431578.13 13431578.23 13431578.34 0.2658 0.0455

Earth 32062-04-23 18:14 G 13431578.15 13431578.26 13431578.37 0.2658 0.0296 *

Jupiter 32063-01-13 00:00 G 13431842.37 13431842.50 13431842.63 0.0519 0.0096

Jupiter 32063-04-12 06:14 G 13431931.73 13431931.76 13431931.80 0.0516 0.0498

Venus 32064-05-26 14:53 G 13432342.00 13432342.12 13432342.25 0.3689 0.1333

Venus 32065-12-08 21:21 G 13432903.29 13432903.39 13432903.50 0.3681 0.1166

Jupiter 32069-03-11 17:45 G 13434092.12 13434092.24 13434092.36 0.0507 0.0373

Jupiter 32069-06-10 01:41 G 13434182.47 13434182.57 13434182.67 0.0509 0.0420

Venus 32071-06-24 15:07 G 13434927.08 13434927.13 13434927.19 0.3681 0.3161

Saturn 32071-08-12 07:41 G 13434975.66 13434975.82 13434975.99 0.0296 0.0117

Saturn 32071-11-09 07:12 G 13435064.63 13435064.80 13435064.97 0.0297 0.0075

Saturn 32072-02-06 06:14 G 13435153.69 13435153.76 13435153.84 0.0297 0.0264

Moon 32072-10-20 17:17 G 13435411.16 13435411.22 13435411.29 0.2679 0.2374

Earth 32072-10-20 18:00 G 13435411.18 13435411.25 13435411.33 0.2673 0.2320 *

Jupiter 32074-11-01 03:36 G 13436152.54 13436152.65 13436152.76 0.0520 0.0257

Jupiter 32075-01-29 09:36 G 13436241.81 13436241.90 13436242.00 0.0517 0.0338

Moon 32075-04-26 11:17 G 13436328.87 13436328.97 13436329.08 0.2662 0.1050

Earth 32075-04-26 12:00 G 13436328.90 13436329.00 13436329.10 0.2658 0.1072 *

Mars 32076-04-15 10:48 G 13436683.87 13436683.95 13436684.02 0.1812 0.1383

Jupiter 32081-03-28 23:31 G 13438492.32 13438492.48 13438492.63 0.0508 0.0226

Mars 32084-11-11 08:09 G 13439815.69 13439815.84 13439815.98 0.1719 0.0600

Saturn 32085-03-12 02:24 G 13439936.57 13439936.60 13439936.64 0.0266 0.0254

Saturn 32085-06-08 12:57 G 13440024.93 13440025.04 13440025.15 0.0265 0.0153

Saturn 32085-09-04 23:17 G 13440113.34 13440113.47 13440113.61 0.0265 0.0052

Mars 32085-09-05 18:57 G 13440114.17 13440114.29 13440114.41 0.1820 0.0267

Earth 32085-10-24 00:57 G 13440162.39 13440162.54 13440162.69 0.2673 0.0596

Moon 32085-10-24 01:12 G 13440162.40 13440162.55 13440162.70 0.2680 0.0536 *

Saturn 32085-12-02 09:50 G 13440201.78 13440201.91 13440202.05 0.0264 0.0053

Saturn 32086-02-28 20:38 G 13440290.25 13440290.36 13440290.47 0.0264 0.0155

Saturn 32086-05-28 07:26 G 13440378.79 13440378.81 13440378.84 0.0264 0.0258

Jupiter 32086-08-20 07:41 G 13440462.74 13440462.82 13440462.89 0.0521 0.0406

Jupiter 32086-11-17 13:41 G 13440551.95 13440552.07 13440552.19 0.0518 0.0187

Uranus 32087-12-27 12:00 G 13440956.93 13440957.00 13440957.09 0.0134 0.0119

Uranus 32088-03-24 18:14 G 13441045.15 13441045.26 13441045.40 0.0134 0.0096

Neptune 32088-04-27 20:38 G 13441079.34 13441079.36 13441079.42 0.0088 0.0085

Moon 32088-04-28 05:31 G 13441079.69 13441079.73 13441079.78 0.2666 0.2400

Earth 32088-04-28 05:45 G 13441079.70 13441079.74 13441079.78 0.2659 0.2448 *

Uranus 32088-06-21 00:43 G 13441133.39 13441133.53 13441133.69 0.0134 0.0072

Neptune 32088-07-24 22:05 G 13441167.37 13441167.42 13441167.50 0.0088 0.0078

Uranus 32088-09-17 07:12 G 13441221.63 13441221.80 13441221.97 0.0134 0.0049

Neptune 32088-10-20 23:31 G 13441255.41 13441255.48 13441255.57 0.0088 0.0070

Uranus 32088-12-14 13:26 G 13441309.88 13441310.06 13441310.24 0.0134 0.0026

Neptune 32089-01-17 01:12 G 13441343.46 13441343.55 13441343.65 0.0088 0.0063

Uranus 32089-03-12 19:26 G 13441398.13 13441398.31 13441398.50 0.0134 0.0005

Neptune 32089-04-15 02:38 G 13441431.51 13441431.61 13441431.72 0.0088 0.0056

Uranus 32089-06-09 01:41 G 13441486.39 13441486.57 13441486.75 0.0133 0.0020

Neptune 32089-07-12 03:50 G 13441519.56 13441519.66 13441519.78 0.0088 0.0049

Uranus 32089-09-05 07:41 G 13441574.65 13441574.82 13441574.99 0.0133 0.0042

Neptune 32089-10-08 05:17 G 13441607.61 13441607.72 13441607.85 0.0088 0.0042

Uranus 32089-12-02 13:41 G 13441662.92 13441663.07 13441663.23 0.0133 0.0065

Neptune 32090-01-04 06:43 G 13441695.66 13441695.78 13441695.91 0.0088 0.0034

Uranus 32090-02-28 19:41 G 13441751.19 13441751.32 13441751.46 0.0133 0.0087

Neptune 32090-04-02 08:09 G 13441783.72 13441783.84 13441783.98 0.0088 0.0027

Uranus 32090-05-28 01:41 G 13441839.47 13441839.57 13441839.67 0.0133 0.0109

Neptune 32090-06-29 09:36 G 13441871.77 13441871.90 13441872.04 0.0088 0.0020

Uranus 32090-08-24 07:26 G 13441927.79 13441927.81 13441927.85 0.0133 0.0131

Neptune 32090-09-25 11:02 G 13441959.83 13441959.96 13441960.10 0.0088 0.0013

Neptune 32090-12-22 12:29 G 13442047.89 13442048.02 13442048.16 0.0088 0.0006

Neptune 32091-03-20 13:55 G 13442135.95 13442136.08 13442136.22 0.0088 0.0003

Neptune 32091-06-16 15:21 G 13442224.01 13442224.14 13442224.28 0.0088 0.0010

Neptune 32091-09-12 16:48 G 13442312.07 13442312.20 13442312.34 0.0088 0.0017

Neptune 32091-12-09 18:14 G 13442400.13 13442400.26 13442400.39 0.0088 0.0024

Neptune 32092-03-06 19:41 G 13442488.19 13442488.32 13442488.45 0.0088 0.0031

Neptune 32092-06-02 21:07 G 13442576.26 13442576.38 13442576.51 0.0088 0.0039

Neptune 32092-08-29 22:19 G 13442664.33 13442664.43 13442664.56 0.0088 0.0047

Neptune 32092-11-26 00:00 G 13442752.40 13442752.50 13442752.61 0.0088 0.0053

Jupiter 32093-01-14 20:24 G 13442802.17 13442802.35 13442802.53 0.0508 0.0020

Neptune 32093-02-22 01:26 G 13442840.47 13442840.56 13442840.67 0.0088 0.0061

Neptune 32093-05-21 02:53 G 13442928.54 13442928.62 13442928.71 0.0088 0.0068

Neptune 32093-08-17 04:19 G 13443016.62 13443016.68 13443016.76 0.0088 0.0076

Neptune 32093-11-13 06:00 G 13443104.71 13443104.75 13443104.80 0.0088 0.0083

Mars 32094-04-03 10:19 G 13443245.79 13443245.93 13443246.07 0.1711 0.0751

Mars 32095-01-27 03:07 G 13443544.52 13443544.63 13443544.73 0.1829 0.0869

Moon 32095-04-22 05:02 G 13443629.62 13443629.71 13443629.80 0.2654 0.1438

Earth 32095-04-22 05:31 G 13443629.64 13443629.73 13443629.82 0.2658 0.1350 *

Jupiter 32098-09-05 17:45 G 13444862.12 13444862.24 13444862.37 0.0519 0.0047

Saturn 32100-12-30 07:12 G 13445707.66 13445707.80 13445707.95 0.0296 0.0165

Saturn 32101-03-29 06:57 G 13445796.61 13445796.79 13445796.97 0.0297 0.0028

Saturn 32101-06-26 06:14 G 13445885.64 13445885.76 13445885.87 0.0297 0.0218

Jupiter 32104-11-03 17:45 G 13447112.07 13447112.24 13447112.41 0.0507 0.0180

Moon 32108-04-24 22:19 G 13448380.32 13448380.43 13448380.54 0.2658 0.0079

Earth 32108-04-24 23:02 G 13448380.35 13448380.46 13448380.57 0.2658 0.0080 *

Jupiter 32110-06-25 22:19 G 13449172.30 13449172.43 13449172.55 0.0519 0.0102

Jupiter 32110-09-23 04:33 G 13449261.65 13449261.69 13449261.72 0.0516 0.0494

Venus 32111-06-17 08:09 G 13449528.75 13449528.84 13449528.93 0.3682 0.1998

Saturn 32114-10-27 15:21 G 13450757.05 13450757.14 13450757.24 0.0266 0.0183

Saturn 32115-01-24 01:55 G 13450845.45 13450845.58 13450845.71 0.0265 0.0081

Saturn 32115-04-22 12:29 G 13450933.88 13450934.02 13450934.16 0.0265 0.0021

Venus 32115-06-18 13:55 G 13450990.95 13450991.08 13450991.21 0.3689 0.0878

Saturn 32115-07-19 23:02 G 13451022.34 13451022.46 13451022.59 0.0264 0.0125

Saturn 32115-10-16 09:50 G 13451110.85 13451110.91 13451110.98 0.0264 0.0228

Mars 32115-10-16 10:48 G 13451110.89 13451110.95 13451111.02 0.1812 0.1539 *

Jupiter 32116-08-22 14:38 G 13451422.00 13451422.11 13451422.23 0.0507 0.0384

Jupiter 32116-11-20 22:48 G 13451512.35 13451512.45 13451512.55 0.0509 0.0410

Venus 32116-12-31 01:41 G 13451552.46 13451552.57 13451552.68 0.3682 0.0127

Moon 32118-10-23 00:14 G 13452213.40 13452213.51 13452213.62 0.2680 0.1828

Earth 32118-10-23 00:43 G 13452213.41 13452213.53 13452213.64 0.2673 0.1756 *

Venus 32121-01-01 14:53 G 13453015.02 13453015.12 13453015.22 0.3689 0.2435

Moon 32121-04-27 16:19 G 13453131.08 13453131.18 13453131.28 0.2663 0.1233

Earth 32121-04-27 16:48 G 13453131.10 13453131.20 13453131.29 0.2658 0.1353 *

Jupiter 32122-04-14 02:24 G 13453482.49 13453482.60 13453482.71 0.0520 0.0249

Pluto 32122-07-04 20:38 G 13453564.29 13453564.36 13453564.42 0.0070 0.0060

Jupiter 32122-07-12 08:24 G 13453571.76 13453571.85 13453571.95 0.0517 0.0345

Venus 32122-07-16 19:26 G 13453576.21 13453576.31 13453576.41 0.3681 0.1860

Pluto 32122-09-30 20:53 G 13453652.29 13453652.37 13453652.47 0.0070 0.0050

Pluto 32122-12-27 21:21 G 13453740.30 13453740.39 13453740.51 0.0070 0.0041

Pluto 32123-03-25 22:05 G 13453828.31 13453828.42 13453828.54 0.0070 0.0031

Pluto 32123-06-21 22:33 G 13453916.32 13453916.44 13453916.57 0.0070 0.0021

Pluto 32123-09-17 23:17 G 13454004.34 13454004.47 13454004.60 0.0070 0.0011

Pluto 32123-12-14 23:45 G 13454092.36 13454092.49 13454092.63 0.0070 0.0003

Pluto 32124-03-12 00:14 G 13454180.39 13454180.51 13454180.65 0.0070 0.0011

Mars 32124-05-13 08:24 G 13454242.72 13454242.85 13454242.99 0.1719 0.0779

Pluto 32124-06-08 00:57 G 13454268.42 13454268.54 13454268.67 0.0070 0.0020

Pluto 32124-09-04 01:26 G 13454356.45 13454356.56 13454356.68 0.0071 0.0031

Pluto 32124-12-01 01:55 G 13454444.48 13454444.58 13454444.70 0.0071 0.0041

Pluto 32125-02-27 02:38 G 13454532.53 13454532.61 13454532.70 0.0071 0.0051

Mars 32125-03-07 18:57 G 13454541.17 13454541.29 13454541.41 0.1820 0.0411

Pluto 32125-05-26 02:53 G 13454620.58 13454620.62 13454620.70 0.0071 0.0062

Moon 32128-04-20 16:48 G 13455681.15 13455681.20 13455681.24 0.2651 0.2383

Earth 32128-04-20 16:48 G 13455681.16 13455681.20 13455681.24 0.2658 0.2397 *

Jupiter 32128-09-08 20:38 G 13455822.20 13455822.36 13455822.52 0.0508 0.0217

Saturn 32130-05-19 06:29 G 13456439.66 13456439.77 13456439.91 0.0296 0.0212

Saturn 32130-08-16 06:29 G 13456528.59 13456528.77 13456528.95 0.0297 0.0018

Uranus 32130-09-19 06:43 G 13456562.76 13456562.78 13456562.81 0.0145 0.0141

Saturn 32130-11-13 05:45 G 13456617.60 13456617.74 13456617.89 0.0297 0.0173

Uranus 32130-12-16 10:33 G 13456650.87 13456650.94 13456651.02 0.0145 0.0120

Uranus 32131-03-14 14:38 G 13456739.01 13456739.11 13456739.21 0.0145 0.0098

Uranus 32131-06-10 18:29 G 13456827.16 13456827.27 13456827.39 0.0145 0.0076

Uranus 32131-09-06 22:33 G 13456915.31 13456915.44 13456915.57 0.0145 0.0055

Earth 32131-10-26 07:26 G 13456964.67 13456964.81 13456964.95 0.2673 0.1141

Moon 32131-10-26 07:55 G 13456964.70 13456964.83 13456964.97 0.2679 0.1281 *

Uranus 32131-12-04 02:24 G 13457003.47 13457003.60 13457003.74 0.0145 0.0033

Uranus 32132-03-01 06:29 G 13457091.64 13457091.77 13457091.91 0.0145 0.0011

Uranus 32132-05-28 10:33 G 13457179.81 13457179.94 13457180.08 0.0145 0.0013

Uranus 32132-08-24 14:38 G 13457267.98 13457268.11 13457268.25 0.0145 0.0035

Uranus 32132-11-20 18:57 G 13457356.16 13457356.29 13457356.42 0.0145 0.0057

Uranus 32133-02-16 23:02 G 13457444.35 13457444.46 13457444.58 0.0145 0.0080

Uranus 32133-05-16 03:07 G 13457532.54 13457532.63 13457532.73 0.0145 0.0103

Uranus 32133-08-12 07:26 G 13457620.75 13457620.81 13457620.88 0.0145 0.0126

Mars 32133-10-03 10:48 G 13457672.81 13457672.95 13457673.10 0.1712 0.0558

Jupiter 32134-01-31 05:45 G 13457792.66 13457792.74 13457792.82 0.0521 0.0410

Jupiter 32134-04-30 11:45 G 13457881.87 13457881.99 13457882.12 0.0518 0.0183

Mars 32134-07-29 03:07 G 13457971.52 13457971.63 13457971.74 0.1828 0.0721

Jupiter 32140-06-27 18:29 G 13460132.09 13460132.27 13460132.45 0.0508 0.0022

Moon 32141-04-23 09:50 G 13460431.81 13460431.91 13460432.01 0.2655 0.1157

Earth 32141-04-23 10:19 G 13460431.83 13460431.93 13460432.03 0.2658 0.1074 *

Saturn 32144-03-15 19:12 G 13461489.21 13461489.30 13461489.38 0.0266 0.0202

Saturn 32144-06-12 05:31 G 13461577.61 13461577.73 13461577.86 0.0265 0.0101

Saturn 32144-09-08 16:05 G 13461666.04 13461666.17 13461666.31 0.0265 0.0004

Saturn 32144-12-06 02:38 G 13461754.49 13461754.61 13461754.74 0.0264 0.0105

Saturn 32145-03-04 13:26 G 13461842.98 13461843.06 13461843.14 0.0264 0.0208

Jupiter 32146-02-16 15:50 G 13462192.03 13462192.16 13462192.29 0.0519 0.0033

Jupiter 32152-04-15 15:21 G 13464441.97 13464442.14 13464442.31 0.0507 0.0183

Moon 32154-04-26 03:07 G 13465182.52 13465182.63 13465182.74 0.2659 0.0145

Earth 32154-04-26 03:50 G 13465182.55 13465182.66 13465182.77 0.2658 0.0277 *

Mars 32155-04-16 10:48 G 13465537.91 13465537.95 13465538.00 0.1812 0.1675

Jupiter 32157-12-05 20:09 G 13466502.21 13466502.34 13466502.47 0.0520 0.0112

Jupiter 32158-03-05 02:24 G 13466591.56 13466591.60 13466591.65 0.0517 0.0485

Saturn 32159-10-06 06:00 G 13467171.67 13467171.75 13467171.84 0.0296 0.0261

Saturn 32160-01-03 06:00 G 13467260.58 13467260.75 13467260.92 0.0297 0.0067

Saturn 32160-04-01 05:17 G 13467349.57 13467349.72 13467349.89 0.0297 0.0125

Venus 32162-07-08 12:43 G 13468177.98 13468178.03 13468178.09 0.3683 0.3197

Mars 32163-11-12 09:07 G 13468669.75 13468669.88 13468670.01 0.1719 0.0976

Jupiter 32164-02-02 12:29 G 13468751.91 13468752.02 13468752.14 0.0506 0.0385

Jupiter 32164-05-02 20:38 G 13468842.26 13468842.36 13468842.46 0.0509 0.0408

Mars 32164-09-05 18:57 G 13468968.18 13468968.29 13468968.41 0.1820 0.0551

Moon 32164-10-23 06:57 G 13469015.65 13469015.79 13469015.92 0.2680 0.1259

Earth 32164-10-23 07:12 G 13469015.66 13469015.80 13469015.94 0.2673 0.1193 *

Venus 32166-07-09 12:29 G 13469639.96 13469640.02 13469640.09 0.3688 0.3205

Moon 32167-04-28 21:07 G 13469933.30 13469933.38 13469933.47 0.2664 0.1643

Earth 32167-04-28 21:36 G 13469933.31 13469933.40 13469933.49 0.2658 0.1633 *

Venus 32168-01-22 06:14 G 13470201.65 13470201.76 13470201.86 0.3682 0.1349

Jupiter 32169-09-24 00:29 G 13470812.41 13470812.52 13470812.64 0.0520 0.0254

Jupiter 32169-12-22 06:43 G 13470901.69 13470901.78 13470901.88 0.0517 0.0341

Uranus 32172-01-17 19:41 G 13471658.23 13471658.32 13471658.44 0.0134 0.0111

Venus 32172-01-23 13:55 G 13471663.95 13471664.08 13471664.22 0.3689 0.0256

Uranus 32172-04-15 02:24 G 13471746.46 13471746.60 13471746.74 0.0134 0.0087

Neptune 32172-07-09 23:02 G 13471832.42 13471832.46 13471832.55 0.0089 0.0083

Uranus 32172-07-12 08:38 G 13471834.70 13471834.86 13471835.02 0.0134 0.0064

Neptune 32172-10-06 02:53 G 13471920.52 13471920.62 13471920.73 0.0089 0.0072

Uranus 32172-10-08 14:53 G 13471922.95 13471923.12 13471923.30 0.0134 0.0041

Neptune 32173-01-02 06:00 G 13472008.63 13472008.75 13472008.89 0.0089 0.0062

Uranus 32173-01-04 21:07 G 13472011.20 13472011.38 13472011.56 0.0134 0.0018

Neptune 32173-03-31 09:21 G 13472096.75 13472096.89 13472097.05 0.0089 0.0052

Uranus 32173-04-03 03:21 G 13472099.46 13472099.64 13472099.82 0.0134 0.0005

Mars 32173-04-03 11:02 G 13472099.81 13472099.96 13472100.12 0.1712 0.0391 *

Neptune 32173-06-27 12:29 G 13472184.87 13472185.02 13472185.20 0.0089 0.0042

Uranus 32173-06-30 09:21 G 13472187.72 13472187.89 13472188.07 0.0134 0.0029

Saturn 32173-08-02 21:36 G 13472221.34 13472221.40 13472221.46 0.0266 0.0233

Venus 32173-08-06 23:45 G 13472225.38 13472225.49 13472225.60 0.3682 0.0583

Neptune 32173-09-23 15:50 G 13472273.00 13472273.16 13472273.35 0.0089 0.0032

Uranus 32173-09-26 15:36 G 13472275.98 13472276.15 13472276.32 0.0133 0.0051

Saturn 32173-10-30 07:55 G 13472309.72 13472309.83 13472309.95 0.0265 0.0132

Neptune 32173-12-20 19:12 G 13472361.13 13472361.30 13472361.49 0.0089 0.0022

Uranus 32173-12-23 21:21 G 13472364.25 13472364.39 13472364.55 0.0133 0.0074

Saturn 32174-01-26 18:29 G 13472398.14 13472398.27 13472398.41 0.0265 0.0030

Mars 32174-01-27 03:07 G 13472398.52 13472398.63 13472398.75 0.1828 0.0576

Neptune 32174-03-18 22:33 G 13472449.26 13472449.44 13472449.63 0.0089 0.0012

Uranus 32174-03-22 03:21 G 13472452.53 13472452.64 13472452.78 0.0133 0.0096

Moon 32174-04-21 21:21 G 13472483.33 13472483.39 13472483.45 0.2652 0.2170

Earth 32174-04-21 21:36 G 13472483.34 13472483.40 13472483.46 0.2658 0.2123 *

Saturn 32174-04-25 05:02 G 13472486.58 13472486.71 13472486.84 0.0264 0.0073

Neptune 32174-06-15 01:55 G 13472537.39 13472537.58 13472537.76 0.0089 0.0002

Uranus 32174-06-18 09:21 G 13472540.82 13472540.89 13472540.98 0.0133 0.0117

Saturn 32174-07-22 15:36 G 13472575.06 13472575.15 13472575.26 0.0264 0.0176

Neptune 32174-09-11 05:02 G 13472625.53 13472625.71 13472625.90 0.0089 0.0009

Neptune 32174-12-08 08:09 G 13472713.67 13472713.84 13472714.03 0.0089 0.0019

Neptune 32175-03-06 11:17 G 13472801.81 13472801.97 13472802.16 0.0089 0.0029

Neptune 32175-06-02 14:24 G 13472889.95 13472890.10 13472890.28 0.0089 0.0039

Neptune 32175-08-29 18:00 G 13472978.09 13472978.25 13472978.40 0.0089 0.0048

Neptune 32175-11-25 20:53 G 13473066.24 13473066.37 13473066.52 0.0089 0.0059

Jupiter 32176-02-19 18:00 G 13473152.09 13473152.25 13473152.42 0.0509 0.0209

Neptune 32176-02-22 00:00 G 13473154.40 13473154.50 13473154.63 0.0089 0.0068

Neptune 32176-05-20 03:07 G 13473242.56 13473242.63 13473242.73 0.0089 0.0078

Neptune 32176-08-16 06:00 G 13473330.75 13473330.75 13473330.80 0.0089 0.0088

Venus 32177-08-08 14:38 G 13473688.08 13473688.11 13473688.15 0.3690 0.3515

Earth 32177-10-26 14:09 G 13473766.97 13473767.09 13473767.20 0.2673 0.1693

Moon 32177-10-26 14:53 G 13473767.01 13473767.12 13473767.24 0.2678 0.1786 *

Venus 32179-02-20 17:31 G 13474249.15 13474249.23 13474249.31 0.3681 0.2551

Jupiter 32181-07-13 04:48 G 13475122.62 13475122.70 13475122.79 0.0521 0.0399

Jupiter 32181-10-10 10:48 G 13475211.83 13475211.95 13475212.08 0.0518 0.0194

Mars 32183-06-19 11:17 G 13475828.93 13475828.97 13475829.01 0.1836 0.1714

Moon 32187-04-24 14:24 G 13477234.00 13477234.10 13477234.21 0.2656 0.0872

Earth 32187-04-24 15:07 G 13477234.03 13477234.13 13477234.24 0.2658 0.0793 *

Jupiter 32187-12-08 16:05 G 13477461.99 13477462.17 13477462.35 0.0508 0.0017

Saturn 32189-05-22 04:19 G 13477992.52 13477992.68 13477992.85 0.0296 0.0122

Saturn 32189-08-19 04:05 G 13478081.49 13478081.67 13478081.84 0.0297 0.0071

Saturn 32189-11-16 03:07 G 13478170.55 13478170.63 13478170.72 0.0298 0.0261

Jupiter 32193-07-29 14:09 G 13479521.96 13479522.09 13479522.22 0.0519 0.0035

Jupiter 32199-09-26 13:55 G 13481771.91 13481772.08 13481772.25 0.0507 0.0176

Moon 32200-04-27 08:09 G 13481984.73 13481984.84 13481984.94 0.2660 0.0491

Earth 32200-04-27 08:38 G 13481984.76 13481984.86 13481984.97 0.2658 0.0559 *

Saturn 32202-12-22 00:57 G 13482953.51 13482953.54 13482953.58 0.0266 0.0255

Saturn 32203-03-20 11:31 G 13483041.87 13483041.98 13483042.09 0.0265 0.0153

Mars 32203-05-14 09:36 G 13483096.78 13483096.90 13483097.01 0.1719 0.1157

Saturn 32203-06-16 21:50 G 13483130.28 13483130.41 13483130.55 0.0265 0.0052

Saturn 32203-09-13 08:24 G 13483218.72 13483218.85 13483218.99 0.0264 0.0051

Saturn 32203-12-10 19:12 G 13483307.19 13483307.30 13483307.41 0.0264 0.0154

Mars 32204-03-07 18:57 G 13483395.18 13483395.29 13483395.41 0.1820 0.0698

Saturn 32204-03-08 05:45 G 13483395.72 13483395.74 13483395.77 0.0263 0.0258

Jupiter 32205-05-18 18:14 G 13483832.14 13483832.26 13483832.39 0.0520 0.0119

Jupiter 32205-08-16 00:29 G 13483921.48 13483921.52 13483921.57 0.0517 0.0478

Pluto 32208-05-15 15:36 G 13484925.07 13484925.15 13484925.28 0.0075 0.0063

Pluto 32208-08-11 18:29 G 13485013.12 13485013.27 13485013.45 0.0074 0.0044

Pluto 32208-11-07 21:07 G 13485101.21 13485101.38 13485101.58 0.0074 0.0026

Pluto 32209-02-04 00:00 G 13485189.31 13485189.50 13485189.70 0.0074 0.0007

Pluto 32209-05-03 02:38 G 13485277.42 13485277.61 13485277.81 0.0074 0.0012

Pluto 32209-07-30 05:02 G 13485365.54 13485365.71 13485365.91 0.0074 0.0030

Pluto 32209-10-26 07:41 G 13485453.68 13485453.82 13485453.98 0.0074 0.0048

Pluto 32210-01-22 10:05 G 13485541.85 13485541.92 13485542.03 0.0074 0.0066

Moon 32210-10-25 13:41 G 13485817.92 13485818.07 13485818.22 0.2680 0.0618

Earth 32210-10-25 13:55 G 13485817.93 13485818.08 13485818.23 0.2673 0.0635 *

Jupiter 32211-07-16 10:48 G 13486081.83 13486081.95 13486082.07 0.0506 0.0381

Jupiter 32211-10-14 18:43 G 13486172.18 13486172.28 13486172.38 0.0509 0.0411

Mars 32212-10-03 11:45 G 13486526.84 13486526.99 13486527.15 0.1712 0.0190

Moon 32213-04-30 02:09 G 13486735.51 13486735.59 13486735.67 0.2665 0.1826

Earth 32213-04-30 02:24 G 13486735.52 13486735.60 13486735.68 0.2658 0.1915 *

Mars 32213-07-29 03:07 G 13486825.52 13486825.63 13486825.75 0.1828 0.0441

Uranus 32214-10-10 14:24 G 13487264.06 13487264.10 13487264.16 0.0145 0.0133

Uranus 32215-01-06 18:29 G 13487352.19 13487352.27 13487352.36 0.0145 0.0112

Uranus 32215-04-04 22:19 G 13487440.33 13487440.43 13487440.54 0.0145 0.0090

Uranus 32215-07-02 02:09 G 13487528.48 13487528.59 13487528.72 0.0145 0.0069

Uranus 32215-09-28 06:14 G 13487616.64 13487616.76 13487616.90 0.0145 0.0047

Uranus 32215-12-25 10:19 G 13487704.80 13487704.93 13487705.07 0.0145 0.0025

Uranus 32216-03-22 14:24 G 13487792.96 13487793.10 13487793.24 0.0145 0.0003

Uranus 32216-06-18 18:29 G 13487881.14 13487881.27 13487881.41 0.0145 0.0021

Uranus 32216-09-14 22:33 G 13487969.31 13487969.44 13487969.58 0.0145 0.0043

Uranus 32216-12-12 02:38 G 13488057.49 13488057.61 13488057.74 0.0145 0.0066

Jupiter 32217-03-06 22:33 G 13488142.33 13488142.44 13488142.55 0.0520 0.0262

Uranus 32217-03-10 06:57 G 13488145.68 13488145.79 13488145.90 0.0145 0.0089

Jupiter 32217-06-04 04:48 G 13488231.60 13488231.70 13488231.80 0.0518 0.0333

Uranus 32217-06-06 11:17 G 13488233.88 13488233.97 13488234.05 0.0145 0.0112

Uranus 32217-09-02 15:07 G 13488322.09 13488322.13 13488322.19 0.0145 0.0135

Saturn 32218-10-10 03:21 G 13488724.50 13488724.64 13488724.79 0.0296 0.0175

Saturn 32219-01-07 03:07 G 13488813.45 13488813.63 13488813.81 0.0297 0.0019

Venus 32219-02-13 10:33 G 13488850.87 13488850.94 13488851.02 0.3683 0.2564

Saturn 32219-04-06 02:24 G 13488902.48 13488902.60 13488902.73 0.0298 0.0210

Moon 32220-04-23 02:09 G 13489285.51 13489285.59 13489285.66 0.2652 0.1841

Earth 32220-04-23 02:24 G 13489285.52 13489285.60 13489285.68 0.2658 0.1850 *

Mars 32222-02-23 13:55 G 13489957.02 13489957.08 13489957.14 0.1704 0.1541

Mars 32222-12-19 11:17 G 13490255.91 13490255.97 13490256.03 0.1836 0.1574

Venus 32223-02-14 12:43 G 13490312.92 13490313.03 13490313.14 0.3688 0.2029

Jupiter 32223-08-02 16:19 G 13490482.02 13490482.18 13490482.34 0.0508 0.0214

Earth 32223-10-28 20:38 G 13490569.28 13490569.36 13490569.44 0.2673 0.2235

Moon 32223-10-28 21:36 G 13490569.34 13490569.40 13490569.47 0.2678 0.2389 *

Venus 32224-08-29 04:05 G 13490874.56 13490874.67 13490874.78 0.3682 0.0677

Venus 32228-08-30 13:55 G 13492336.95 13492337.08 13492337.20 0.3689 0.1365

Jupiter 32228-12-24 03:07 G 13492452.55 13492452.63 13492452.72 0.0521 0.0402

Jupiter 32229-03-23 09:21 G 13492541.77 13492541.89 13492542.01 0.0518 0.0192

Venus 32230-03-14 21:36 G 13492898.30 13492898.40 13492898.51 0.3681 0.1263

Saturn 32232-08-06 13:55 G 13493773.98 13493774.08 13493774.17 0.0265 0.0186

Saturn 32232-11-03 00:14 G 13493862.38 13493862.51 13493862.64 0.0265 0.0084

Saturn 32233-01-30 10:48 G 13493950.81 13493950.95 13493951.08 0.0264 0.0019

Moon 32233-04-25 19:12 G 13494036.19 13494036.30 13494036.41 0.2656 0.0641

Earth 32233-04-25 19:55 G 13494036.22 13494036.33 13494036.44 0.2658 0.0516 *

Saturn 32233-04-28 21:21 G 13494039.27 13494039.39 13494039.51 0.0264 0.0121

Saturn 32233-07-26 07:55 G 13494127.76 13494127.83 13494127.90 0.0263 0.0224

Jupiter 32235-05-21 13:41 G 13494791.89 13494792.07 13494792.25 0.0508 0.0014

Venus 32235-09-28 15:36 G 13494922.10 13494922.15 13494922.20 0.3681 0.3261

Jupiter 32241-01-09 13:26 G 13496851.93 13496852.06 13496852.19 0.0519 0.0047

Mars 32242-11-12 10:05 G 13497523.82 13497523.92 13497524.01 0.1720 0.1343

Mars 32243-09-06 19:12 G 13497822.19 13497822.30 13497822.41 0.1820 0.0846

Moon 32246-04-28 12:57 G 13498786.93 13498787.04 13498787.14 0.2662 0.0756

Earth 32246-04-28 13:26 G 13498786.96 13498787.06 13498787.17 0.2658 0.0838 *

Jupiter 32247-03-09 11:45 G 13499101.82 13499101.99 13499102.16 0.0507 0.0177

Saturn 32248-02-27 00:43 G 13499456.43 13499456.53 13499456.64 0.0296 0.0238

Saturn 32248-05-26 00:43 G 13499545.35 13499545.53 13499545.70 0.0297 0.0044

Saturn 32248-08-23 00:00 G 13499634.35 13499634.50 13499634.66 0.0297 0.0149

Mars 32252-04-03 12:29 G 13500953.86 13500954.02 13500954.17 0.1712 0.0052

Jupiter 32252-10-28 16:48 G 13501162.08 13501162.20 13501162.33 0.0520 0.0117

Neptune 32253-01-24 20:09 G 13501250.30 13501250.34 13501250.39 0.0088 0.0083

Jupiter 32253-01-25 23:02 G 13501251.42 13501251.46 13501251.51 0.0517 0.0480

Mars 32253-01-27 03:07 G 13501252.51 13501252.63 13501252.75 0.1828 0.0301

Neptune 32253-04-22 21:36 G 13501338.33 13501338.40 13501338.47 0.0088 0.0076

Neptune 32253-07-19 22:48 G 13501426.37 13501426.45 13501426.54 0.0088 0.0069

Neptune 32253-10-16 00:14 G 13501514.42 13501514.51 13501514.61 0.0088 0.0062

Neptune 32254-01-12 01:41 G 13501602.47 13501602.57 13501602.68 0.0088 0.0054

Neptune 32254-04-10 03:07 G 13501690.52 13501690.63 13501690.75 0.0088 0.0047

Neptune 32254-07-07 04:19 G 13501778.57 13501778.68 13501778.81 0.0088 0.0041

Neptune 32254-10-03 06:00 G 13501866.62 13501866.75 13501866.88 0.0088 0.0033

Neptune 32254-12-30 07:26 G 13501954.68 13501954.81 13501954.94 0.0088 0.0026

Neptune 32255-03-28 08:53 G 13502042.73 13502042.87 13502043.00 0.0088 0.0018

Neptune 32255-06-24 10:19 G 13502130.79 13502130.93 13502131.06 0.0088 0.0011

Neptune 32255-09-20 11:45 G 13502218.85 13502218.99 13502219.12 0.0088 0.0004

Uranus 32255-11-11 21:50 G 13502271.35 13502271.41 13502271.48 0.0134 0.0124

Neptune 32255-12-17 13:12 G 13502306.91 13502307.05 13502307.18 0.0088 0.0004

Uranus 32256-02-08 04:05 G 13502359.56 13502359.67 13502359.80 0.0134 0.0101

Neptune 32256-03-14 14:24 G 13502394.97 13502395.10 13502395.24 0.0088 0.0011

Uranus 32256-05-06 10:33 G 13502447.80 13502447.94 13502448.09 0.0134 0.0077

Neptune 32256-06-10 15:50 G 13502483.03 13502483.16 13502483.30 0.0088 0.0018

Uranus 32256-08-02 16:48 G 13502536.04 13502536.20 13502536.37 0.0134 0.0054

Neptune 32256-09-06 17:17 G 13502571.09 13502571.22 13502571.36 0.0088 0.0026

Earth 32256-10-25 20:24 G 13502620.20 13502620.35 13502620.51 0.2673 0.0108

Moon 32256-10-25 20:53 G 13502620.21 13502620.37 13502620.52 0.2680 0.0138 *

Uranus 32256-10-29 23:17 G 13502624.29 13502624.47 13502624.64 0.0134 0.0031

Neptune 32256-12-03 18:57 G 13502659.16 13502659.29 13502659.41 0.0088 0.0033

Uranus 32257-01-26 05:31 G 13502712.55 13502712.73 13502712.91 0.0134 0.0008

Neptune 32257-03-01 20:09 G 13502747.22 13502747.34 13502747.47 0.0088 0.0040

Uranus 32257-04-24 11:31 G 13502800.80 13502800.98 13502801.16 0.0134 0.0016

Neptune 32257-05-28 21:36 G 13502835.29 13502835.40 13502835.52 0.0088 0.0047

Uranus 32257-07-21 17:31 G 13502889.07 13502889.23 13502889.41 0.0133 0.0039

Neptune 32257-08-24 23:17 G 13502923.36 13502923.47 13502923.58 0.0088 0.0055

Uranus 32257-10-17 23:45 G 13502977.33 13502977.49 13502977.65 0.0133 0.0061

Neptune 32257-11-21 00:29 G 13503011.43 13503011.52 13503011.63 0.0088 0.0062

Uranus 32258-01-14 05:45 G 13503065.61 13503065.74 13503065.88 0.0133 0.0083

Neptune 32258-02-17 01:55 G 13503099.51 13503099.58 13503099.67 0.0088 0.0070

Uranus 32258-04-12 11:31 G 13503153.89 13503153.98 13503154.10 0.0133 0.0105

Neptune 32258-05-16 03:21 G 13503187.58 13503187.64 13503187.72 0.0088 0.0077

Uranus 32258-07-09 17:17 G 13503242.19 13503242.22 13503242.29 0.0133 0.0128

Neptune 32258-08-12 04:48 G 13503275.67 13503275.70 13503275.75 0.0088 0.0084

Jupiter 32258-12-26 09:36 G 13503411.78 13503411.90 13503412.03 0.0506 0.0368

Jupiter 32259-03-26 17:31 G 13503502.14 13503502.23 13503502.33 0.0509 0.0425

Moon 32259-05-01 06:57 G 13503537.73 13503537.79 13503537.85 0.2665 0.2207

Earth 32259-05-01 07:12 G 13503537.74 13503537.80 13503537.86 0.2658 0.2204 *

Mars 32261-08-24 14:24 G 13504384.01 13504384.10 13504384.20 0.1705 0.1352

Saturn 32261-12-24 17:02 G 13504506.13 13504506.21 13504506.29 0.0265 0.0210

Saturn 32262-03-23 03:21 G 13504594.52 13504594.64 13504594.76 0.0265 0.0108

Mars 32262-06-19 11:31 G 13504682.90 13504682.98 13504683.05 0.1836 0.1429

Saturn 32262-06-19 13:55 G 13504682.94 13504683.08 13504683.21 0.0264 0.0010 *

Saturn 32262-09-16 00:14 G 13504771.39 13504771.51 13504771.64 0.0264 0.0097

Saturn 32262-12-13 11:02 G 13504859.87 13504859.96 13504860.05 0.0263 0.0199

Jupiter 32264-08-16 20:53 G 13505472.26 13505472.37 13505472.49 0.0520 0.0266

Jupiter 32264-11-14 03:07 G 13505561.53 13505561.63 13505561.73 0.0518 0.0330

Moon 32266-04-24 06:43 G 13506087.70 13506087.78 13506087.86 0.2653 0.1693

Earth 32266-04-24 07:12 G 13506087.71 13506087.80 13506087.89 0.2658 0.1575 *

Jupiter 32271-01-12 14:53 G 13507811.96 13507812.12 13507812.28 0.0508 0.0224

Venus 32275-09-20 08:38 G 13509523.76 13509523.86 13509523.95 0.3683 0.1911

Jupiter 32276-06-05 01:26 G 13509782.48 13509782.56 13509782.64 0.0521 0.0408

Jupiter 32276-09-02 07:26 G 13509871.69 13509871.81 13509871.93 0.0519 0.0187

Saturn 32277-07-15 23:17 G 13510188.47 13510188.47 13510188.47 0.0296 0.0296

Saturn 32277-10-12 23:02 G 13510277.30 13510277.46 13510277.64 0.0297 0.0101

Saturn 32278-01-09 22:48 G 13510366.28 13510366.45 13510366.62 0.0297 0.0093

Saturn 32278-04-08 21:50 G 13510455.37 13510455.41 13510455.47 0.0298 0.0284

Moon 32279-04-27 00:00 G 13510838.39 13510838.50 13510838.61 0.2656 0.0296

Earth 32279-04-27 00:43 G 13510838.42 13510838.53 13510838.64 0.2658 0.0239 *

Venus 32279-09-21 12:43 G 13510985.90 13510986.03 13510986.16 0.3689 0.0890

Venus 32281-04-05 02:09 G 13511547.47 13511547.59 13511547.70 0.3682 0.0134

Mars 32282-05-13 10:33 G 13511950.87 13511950.94 13511951.01 0.1720 0.1532

Jupiter 32282-10-31 12:29 G 13512121.84 13512122.02 13512122.20 0.0507 0.0027

Mars 32283-03-07 19:12 G 13512249.19 13512249.30 13512249.40 0.1820 0.0982

Venus 32285-04-06 13:55 G 13513009.98 13513010.08 13513010.17 0.3689 0.2475

Venus 32286-10-19 19:41 G 13513571.23 13513571.32 13513571.42 0.3681 0.1950

Jupiter 32288-06-21 12:00 G 13514181.87 13514182.00 13514182.13 0.0519 0.0047

Earth 32289-10-23 19:55 G 13514671.28 13514671.33 13514671.39 0.2673 0.2457

Moon 32289-10-23 19:12 G 13514671.30 13514671.30 13514671.31 0.2680 0.2675 *

Saturn 32291-05-13 18:57 G 13515238.25 13515238.29 13515238.35 0.0265 0.0244

Saturn 32291-08-10 05:31 G 13515326.62 13515326.73 13515326.84 0.0265 0.0142

Mars 32291-10-03 12:43 G 13515380.88 13515381.03 13515381.19 0.1712 0.0180

Saturn 32291-11-06 15:50 G 13515415.03 13515415.16 13515415.30 0.0264 0.0041

Saturn 32292-02-03 02:24 G 13515503.47 13515503.60 13515503.73 0.0264 0.0062

Moon 32292-04-28 17:45 G 13515589.14 13515589.24 13515589.34 0.2663 0.1015

Earth 32292-04-28 18:14 G 13515589.16 13515589.26 13515589.36 0.2658 0.1117 *

Saturn 32292-05-01 12:57 G 13515591.94 13515592.04 13515592.15 0.0263 0.0164

Mars 32292-07-28 03:21 G 13515679.52 13515679.64 13515679.76 0.1828 0.0139

Jupiter 32294-08-19 09:50 G 13516431.74 13516431.91 13516432.08 0.0507 0.0174

Uranus 32298-10-30 22:33 G 13517965.38 13517965.44 13517965.52 0.0145 0.0124

Uranus 32299-01-27 02:38 G 13518053.52 13518053.61 13518053.71 0.0145 0.0102

Earth 32299-04-22 18:29 G 13518139.25 13518139.27 13518139.28 0.2658 0.2618

Moon 32299-04-22 18:29 G 13518139.27 13518139.27 13518139.27 0.2651 0.2651 *

Uranus 32299-04-25 06:29 G 13518141.66 13518141.77 13518141.89 0.0145 0.0081

Uranus 32299-07-22 10:33 G 13518229.82 13518229.94 13518230.07 0.0145 0.0059

Uranus 32299-10-18 14:38 G 13518317.98 13518318.11 13518318.24 0.0145 0.0036

Uranus 32300-01-14 18:43 G 13518406.14 13518406.28 13518406.42 0.0145 0.0014

Jupiter 32300-04-10 16:19 G 13518492.05 13518492.18 13518492.31 0.0520 0.0097

Uranus 32300-04-12 22:48 G 13518494.31 13518494.45 13518494.59 0.0145 0.0008

Jupiter 32300-07-08 22:48 G 13518581.41 13518581.45 13518581.48 0.0517 0.0499

Uranus 32300-07-10 02:53 G 13518582.48 13518582.62 13518582.75 0.0145 0.0031

Uranus 32300-10-06 06:57 G 13518670.66 13518670.79 13518670.92 0.0145 0.0053

Uranus 32301-01-02 11:02 G 13518758.85 13518758.96 13518759.08 0.0145 0.0076

Mars 32301-02-23 15:07 G 13518811.02 13518811.13 13518811.24 0.1705 0.1157

Uranus 32301-03-31 15:07 G 13518847.04 13518847.13 13518847.24 0.0145 0.0099

Uranus 32301-06-27 19:26 G 13518935.24 13518935.31 13518935.39 0.0145 0.0122

Mars 32301-12-19 11:31 G 13519109.89 13519109.98 13519110.06 0.1836 0.1291

Earth 32302-10-28 03:07 G 13519422.47 13519422.63 13519422.78 0.2673 0.0474

Moon 32302-10-28 03:36 G 13519422.50 13519422.65 13519422.80 0.2680 0.0643 *

Moon 32305-05-02 12:00 G 13520339.96 13520340.00 13520340.04 0.2665 0.2466

Earth 32305-05-02 12:00 G 13520339.97 13520340.00 13520340.04 0.2658 0.2489 *

Jupiter 32306-06-08 07:55 G 13520741.71 13520741.83 13520741.95 0.0506 0.0364

Jupiter 32306-09-06 15:50 G 13520832.07 13520832.16 13520832.26 0.0509 0.0430

Saturn 32307-03-02 19:26 G 13521009.17 13521009.31 13521009.46 0.0296 0.0172

Saturn 32307-05-30 19:26 G 13521098.13 13521098.31 13521098.48 0.0297 0.0024

Saturn 32307-08-27 18:43 G 13521187.16 13521187.28 13521187.40 0.0298 0.0215

Jupiter 32312-01-28 19:55 G 13522802.21 13522802.33 13522802.44 0.0520 0.0259

Moon 32312-04-25 11:31 G 13522889.88 13522889.98 13522890.07 0.2653 0.1315

Earth 32312-04-25 12:00 G 13522889.90 13522890.00 13522890.09 0.2658 0.1302 *

Jupiter 32312-04-27 01:55 G 13522891.48 13522891.58 13522891.68 0.0518 0.0337

Jupiter 32318-06-25 14:24 G 13525141.94 13525142.10 13525142.25 0.0508 0.0244

Saturn 32320-12-28 08:24 G 13526058.75 13526058.85 13526058.96 0.0265 0.0169

Saturn 32321-03-26 18:43 G 13526147.15 13526147.28 13526147.42 0.0265 0.0068

Saturn 32321-06-23 05:17 G 13526235.59 13526235.72 13526235.86 0.0264 0.0035

Saturn 32321-09-19 15:50 G 13526324.05 13526324.16 13526324.28 0.0264 0.0138

Saturn 32321-12-17 02:38 G 13526412.56 13526412.61 13526412.66 0.0263 0.0241

Mars 32322-09-06 19:12 G 13526676.21 13526676.30 13526676.40 0.1819 0.1135

Jupiter 32323-11-17 00:00 G 13527112.42 13527112.50 13527112.58 0.0521 0.0406

Jupiter 32324-02-14 06:00 G 13527201.63 13527201.75 13527201.87 0.0518 0.0188

Moon 32325-04-28 04:48 G 13527640.59 13527640.70 13527640.81 0.2658 0.0116

Earth 32325-04-28 05:31 G 13527640.62 13527640.73 13527640.84 0.2658 0.0047 *

Venus 32326-10-12 13:12 G 13528172.99 13528173.05 13528173.11 0.3683 0.3116

Jupiter 32330-04-13 11:31 G 13529451.80 13529451.98 13529452.16 0.0507 0.0043

Venus 32330-10-13 11:17 G 13529634.91 13529634.97 13529635.03 0.3688 0.3239

Mars 32331-04-04 13:26 G 13529807.91 13529808.06 13529808.21 0.1713 0.0379

Mars 32332-01-28 03:21 G 13530106.51 13530106.64 13530106.76 0.1828 0.0060

Venus 32332-04-27 06:29 G 13530196.67 13530196.77 13530196.88 0.3682 0.1252

Moon 32335-10-26 02:09 G 13531473.48 13531473.59 13531473.70 0.2680 0.1869

Earth 32335-10-26 02:38 G 13531473.50 13531473.61 13531473.72 0.2674 0.1886 *

Jupiter 32335-12-03 10:19 G 13531511.80 13531511.93 13531512.06 0.0519 0.0044

Venus 32336-04-28 12:43 G 13531658.90 13531659.03 13531659.17 0.3689 0.0268

Saturn 32336-07-19 17:31 G 13531741.13 13531741.23 13531741.35 0.0296 0.0232

Saturn 32336-10-16 17:31 G 13531830.06 13531830.23 13531830.41 0.0297 0.0037

Saturn 32337-01-13 17:02 G 13531919.06 13531919.21 13531919.36 0.0298 0.0157

Neptune 32337-04-07 20:38 G 13532003.30 13532003.36 13532003.44 0.0089 0.0082

Neptune 32337-07-04 23:45 G 13532091.40 13532091.49 13532091.62 0.0089 0.0072

Neptune 32337-10-01 03:07 G 13532179.51 13532179.63 13532179.78 0.0089 0.0062

Venus 32337-11-11 00:00 G 13532220.39 13532220.50 13532220.61 0.3681 0.0677

Neptune 32337-12-28 06:43 G 13532267.63 13532267.78 13532267.94 0.0089 0.0051

Neptune 32338-03-26 10:05 G 13532355.76 13532355.92 13532356.09 0.0089 0.0041

Moon 32338-04-30 22:33 G 13532391.35 13532391.44 13532391.54 0.2663 0.1355

Earth 32338-04-30 23:02 G 13532391.37 13532391.46 13532391.56 0.2658 0.1398 *

Neptune 32338-06-22 13:12 G 13532443.88 13532444.05 13532444.23 0.0089 0.0031

Neptune 32338-09-18 16:33 G 13532532.02 13532532.19 13532532.38 0.0089 0.0021

Neptune 32338-12-15 19:55 G 13532620.15 13532620.33 13532620.52 0.0089 0.0011

Neptune 32339-03-13 23:17 G 13532708.28 13532708.47 13532708.65 0.0089 0.0001

Neptune 32339-06-10 02:24 G 13532796.42 13532796.60 13532796.79 0.0089 0.0009

Neptune 32339-09-06 05:45 G 13532884.56 13532884.74 13532884.92 0.0089 0.0019

Uranus 32339-12-03 06:00 G 13532972.67 13532972.75 13532972.85 0.0134 0.0114

Neptune 32339-12-03 08:53 G 13532972.70 13532972.87 13532973.05 0.0089 0.0029 *

Neptune 32340-02-29 12:00 G 13533060.84 13533061.00 13533061.17 0.0089 0.0039

Uranus 32340-02-29 12:14 G 13533060.89 13533061.01 13533061.16 0.0134 0.0091 *

Neptune 32340-05-27 15:07 G 13533148.99 13533149.13 13533149.29 0.0089 0.0049

Uranus 32340-05-27 18:57 G 13533149.13 13533149.29 13533149.45 0.0134 0.0067 *

Neptune 32340-08-23 18:14 G 13533237.13 13533237.26 13533237.41 0.0089 0.0059

Uranus 32340-08-24 01:12 G 13533237.38 13533237.55 13533237.73 0.0134 0.0044 *

Mars 32340-08-24 15:36 G 13533238.02 13533238.15 13533238.27 0.1705 0.0980

Neptune 32340-11-19 21:21 G 13533325.29 13533325.39 13533325.52 0.0089 0.0069

Uranus 32340-11-20 07:26 G 13533325.63 13533325.81 13533325.99 0.0134 0.0021

Neptune 32341-02-16 00:29 G 13533413.45 13533413.52 13533413.62 0.0089 0.0079

Uranus 32341-02-16 13:41 G 13533413.89 13533414.07 13533414.25 0.0133 0.0003

Neptune 32341-05-15 03:50 G 13533501.66 13533501.66 13533501.68 0.0089 0.0089

Uranus 32341-05-15 19:55 G 13533502.15 13533502.33 13533502.51 0.0133 0.0025

Mars 32341-06-19 11:31 G 13533536.89 13533536.98 13533537.07 0.1836 0.1144

Uranus 32341-08-12 01:55 G 13533590.42 13533590.58 13533590.75 0.0133 0.0048

Uranus 32341-11-08 07:55 G 13533678.69 13533678.83 13533678.99 0.0133 0.0071

Venus 32341-11-12 13:41 G 13533683.04 13533683.07 13533683.10 0.3690 0.3576

Jupiter 32342-01-30 09:07 G 13533761.71 13533761.88 13533762.05 0.0507 0.0156

Uranus 32342-02-04 14:09 G 13533766.96 13533767.09 13533767.22 0.0133 0.0093

Uranus 32342-05-03 19:41 G 13533855.25 13533855.32 13533855.43 0.0133 0.0116

Venus 32343-05-27 17:45 G 13534244.17 13534244.24 13534244.32 0.3681 0.2659

Moon 32345-04-23 23:02 G 13534941.41 13534941.46 13534941.51 0.2652 0.2328

Earth 32345-04-23 23:17 G 13534941.42 13534941.47 13534941.52 0.2658 0.2349 *

Jupiter 32347-09-21 14:53 G 13535822.00 13535822.12 13535822.25 0.0520 0.0095

Jupiter 32347-12-19 21:21 G 13535911.36 13535911.39 13535911.41 0.0517 0.0503

Earth 32348-10-28 09:36 G 13536224.76 13536224.90 13536225.05 0.2673 0.1033

Moon 32348-10-28 10:19 G 13536224.79 13536224.93 13536225.08 0.2680 0.1020 *

Saturn 32350-05-17 10:33 G 13536790.85 13536790.94 13536791.02 0.0265 0.0203

Saturn 32350-08-13 20:53 G 13536879.24 13536879.37 13536879.49 0.0265 0.0102

Saturn 32350-11-10 07:12 G 13536967.67 13536967.80 13536967.94 0.0264 0.0006

Saturn 32351-02-06 17:45 G 13537056.12 13537056.24 13537056.37 0.0264 0.0102

Saturn 32351-05-06 04:19 G 13537144.60 13537144.68 13537144.77 0.0263 0.0205

Jupiter 32353-11-18 06:14 G 13538071.64 13538071.76 13538071.89 0.0506 0.0356

Jupiter 32354-02-16 14:24 G 13538162.01 13538162.10 13538162.19 0.0509 0.0437

Moon 32358-04-26 16:05 G 13539692.08 13539692.17 13539692.27 0.2653 0.1162

Earth 32358-04-26 16:48 G 13539692.10 13539692.20 13539692.30 0.2658 0.1025 *

Jupiter 32359-07-10 19:26 G 13540132.19 13540132.31 13540132.42 0.0520 0.0236

Jupiter 32359-10-08 01:26 G 13540221.47 13540221.56 13540221.66 0.0518 0.0360

Mars 32362-03-07 19:12 G 13541103.22 13541103.30 13541103.39 0.1819 0.1279

Jupiter 32365-12-05 12:43 G 13542471.88 13542472.03 13542472.19 0.0508 0.0253

Saturn 32366-03-05 13:12 G 13542561.89 13542562.05 13542562.22 0.0296 0.0114

Saturn 32366-06-02 12:57 G 13542650.87 13542651.04 13542651.21 0.0297 0.0081

Saturn 32366-08-30 12:14 G 13542739.94 13542740.01 13542740.08 0.0298 0.0272

Pluto 32368-06-01 10:33 G 13543380.91 13543380.94 13543381.00 0.0069 0.0066

Pluto 32368-08-28 11:17 G 13543468.90 13543468.97 13543469.06 0.0070 0.0056

Pluto 32368-11-24 11:45 G 13543556.91 13543556.99 13543557.10 0.0070 0.0046

Pluto 32369-02-20 12:29 G 13543644.91 13543645.02 13543645.14 0.0070 0.0036

Pluto 32369-05-19 12:57 G 13543732.93 13543733.04 13543733.17 0.0070 0.0026

Pluto 32369-08-15 13:41 G 13543820.94 13543821.07 13543821.20 0.0070 0.0016

Pluto 32369-11-11 14:09 G 13543908.96 13543909.09 13543909.23 0.0070 0.0006

Pluto 32370-02-07 14:53 G 13543996.99 13543997.12 13543997.25 0.0070 0.0005

Pluto 32370-05-06 15:21 G 13544085.01 13544085.14 13544085.27 0.0070 0.0015

Pluto 32370-08-02 15:50 G 13544173.04 13544173.16 13544173.29 0.0070 0.0025

Mars 32370-10-03 13:55 G 13544234.93 13544235.08 13544235.23 0.1713 0.0569

Pluto 32370-10-29 16:19 G 13544261.08 13544261.18 13544261.30 0.0071 0.0036

Pluto 32371-01-25 17:02 G 13544349.12 13544349.21 13544349.31 0.0071 0.0046

Pluto 32371-04-23 17:45 G 13544437.16 13544437.24 13544437.32 0.0071 0.0056

Jupiter 32371-04-28 23:02 G 13544442.37 13544442.46 13544442.54 0.0521 0.0396

Moon 32371-04-29 09:36 G 13544442.79 13544442.90 13544443.01 0.2660 0.0282

Earth 32371-04-29 10:19 G 13544442.82 13544442.93 13544443.04 0.2658 0.0316 *

Pluto 32371-07-20 18:00 G 13544525.22 13544525.25 13544525.30 0.0071 0.0067

Jupiter 32371-07-27 05:02 G 13544531.59 13544531.71 13544531.83 0.0518 0.0198

Mars 32371-07-29 03:21 G 13544533.52 13544533.64 13544533.76 0.1827 0.0139

Jupiter 32377-09-23 11:17 G 13546781.79 13546781.97 13546782.14 0.0508 0.0067

Saturn 32379-10-04 13:12 G 13547522.99 13547523.05 13547523.11 0.0266 0.0233

Saturn 32379-12-31 23:31 G 13547611.36 13547611.48 13547611.60 0.0265 0.0131

Mars 32380-02-23 16:05 G 13547665.03 13547665.17 13547665.31 0.1705 0.0784

Saturn 32380-03-29 09:50 G 13547699.78 13547699.91 13547700.05 0.0264 0.0031

Saturn 32380-06-25 20:24 G 13547788.22 13547788.35 13547788.48 0.0264 0.0073

Saturn 32380-09-22 06:57 G 13547876.69 13547876.79 13547876.90 0.0263 0.0176

Mars 32380-12-18 11:31 G 13547963.88 13547963.98 13547964.08 0.1835 0.1005

Earth 32381-10-26 09:21 G 13548275.75 13548275.89 13548276.03 0.2673 0.1319

Moon 32381-10-26 09:21 G 13548275.76 13548275.89 13548276.02 0.2680 0.1401 *

Uranus 32382-08-25 02:09 G 13548578.56 13548578.59 13548578.64 0.0144 0.0138

Uranus 32382-11-21 06:14 G 13548666.69 13548666.76 13548666.84 0.0145 0.0117

Uranus 32383-02-17 10:19 G 13548754.83 13548754.93 13548755.03 0.0145 0.0095

Jupiter 32383-05-15 09:07 G 13548841.75 13548841.88 13548842.01 0.0519 0.0050

Uranus 32383-05-16 14:09 G 13548842.98 13548843.09 13548843.21 0.0145 0.0073

Venus 32383-05-19 11:02 G 13548845.88 13548845.96 13548846.04 0.3683 0.2465

Uranus 32383-08-12 18:14 G 13548931.13 13548931.26 13548931.39 0.0145 0.0051

Uranus 32383-11-08 22:05 G 13549019.29 13549019.42 13549019.56 0.0145 0.0030

Uranus 32384-02-05 02:24 G 13549107.46 13549107.60 13549107.73 0.0145 0.0008

Moon 32384-05-01 03:36 G 13549193.56 13549193.65 13549193.74 0.2663 0.1572

Earth 32384-05-01 04:05 G 13549193.58 13549193.67 13549193.75 0.2658 0.1677 *

Uranus 32384-05-03 06:29 G 13549195.63 13549195.77 13549195.90 0.0145 0.0016

Uranus 32384-07-30 10:33 G 13549283.80 13549283.94 13549284.07 0.0145 0.0038

Uranus 32384-10-26 14:24 G 13549371.98 13549372.10 13549372.24 0.0145 0.0061

Uranus 32385-01-22 18:43 G 13549460.17 13549460.28 13549460.40 0.0145 0.0084

Uranus 32385-04-20 23:02 G 13549548.36 13549548.46 13549548.55 0.0145 0.0106

Uranus 32385-07-18 03:07 G 13549636.57 13549636.63 13549636.69 0.0145 0.0130

Venus 32387-05-20 11:31 G 13550307.86 13550307.98 13550308.09 0.3688 0.2052

Venus 32388-12-02 04:33 G 13550869.58 13550869.69 13550869.80 0.3682 0.0581

Jupiter 32389-07-12 08:24 G 13551091.68 13551091.85 13551092.03 0.0507 0.0134

Moon 32391-04-25 03:50 G 13551743.59 13551743.66 13551743.72 0.2651 0.2122

Earth 32391-04-25 04:05 G 13551743.60 13551743.67 13551743.73 0.2658 0.2075 *

Venus 32392-12-03 12:43 G 13552331.91 13552332.03 13552332.16 0.3689 0.1414

Venus 32394-06-17 22:05 G 13552893.32 13552893.42 13552893.52 0.3681 0.1363

Earth 32394-10-29 16:19 G 13553027.05 13553027.18 13553027.30 0.2673 0.1583

Moon 32394-10-29 17:02 G 13553027.10 13553027.21 13553027.32 0.2680 0.1792 *

Jupiter 32395-03-03 13:26 G 13553151.93 13553152.06 13553152.19 0.0520 0.0094

Jupiter 32395-05-31 19:41 G 13553241.30 13553241.32 13553241.35 0.0517 0.0504

Saturn 32395-07-23 10:48 G 13553293.81 13553293.95 13553294.10 0.0297 0.0178

Saturn 32395-10-20 10:48 G 13553382.77 13553382.95 13553383.13 0.0297 0.0018

Saturn 32396-01-17 10:05 G 13553471.80 13553471.92 13553472.05 0.0298 0.0211

Venus 32400-01-01 15:50 G 13554917.12 13554917.16 13554917.20 0.3681 0.3373

Jupiter 32401-04-30 05:45 G 13555401.61 13555401.74 13555401.88 0.0506 0.0333

Jupiter 32401-07-29 13:55 G 13555492.00 13555492.08 13555492.15 0.0509 0.0459

Mars 32401-09-05 19:12 G 13555530.23 13555530.30 13555530.38 0.1819 0.1423

Moon 32404-04-26 20:53 G 13556494.27 13556494.37 13556494.48 0.2654 0.0787

Earth 32404-04-26 21:36 G 13556494.29 13556494.40 13556494.50 0.2658 0.0758 *

Jupiter 32406-12-20 18:00 G 13557462.14 13557462.25 13557462.37 0.0521 0.0233

Jupiter 32407-03-20 00:14 G 13557551.42 13557551.51 13557551.60 0.0518 0.0364

Saturn 32409-05-20 01:26 G 13558343.46 13558343.56 13558343.67 0.0265 0.0166

Saturn 32409-08-16 11:45 G 13558431.86 13558431.99 13558432.13 0.0264 0.0066

Saturn 32409-11-12 22:19 G 13558520.30 13558520.43 13558520.57 0.0264 0.0037

Saturn 32410-02-09 08:53 G 13558608.75 13558608.87 13558608.99 0.0263 0.0140

Mars 32410-04-03 14:09 G 13558661.96 13558662.09 13558662.23 0.1713 0.0744

Saturn 32410-05-08 19:26 G 13558697.26 13558697.31 13558697.36 0.0263 0.0243

Mars 32411-01-27 03:21 G 13558960.52 13558960.64 13558960.76 0.1827 0.0295

Jupiter 32413-05-17 11:31 G 13559801.83 13559801.98 13559802.13 0.0508 0.0263

Moon 32417-04-29 14:24 G 13561244.99 13561245.10 13561245.21 0.2660 0.0436

Earth 32417-04-29 15:07 G 13561245.02 13561245.13 13561245.24 0.2658 0.0596 *

Neptune 32417-10-22 19:12 G 13561421.26 13561421.30 13561421.35 0.0088 0.0082

Neptune 32418-01-18 20:38 G 13561509.29 13561509.36 13561509.43 0.0088 0.0075

Neptune 32418-04-16 21:50 G 13561597.34 13561597.41 13561597.51 0.0088 0.0068

Neptune 32418-07-13 23:17 G 13561685.38 13561685.47 13561685.58 0.0088 0.0061

Jupiter 32418-10-08 22:33 G 13561772.36 13561772.44 13561772.53 0.0521 0.0373

Neptune 32418-10-10 00:43 G 13561773.43 13561773.53 13561773.65 0.0088 0.0053

Neptune 32419-01-06 02:09 G 13561861.48 13561861.59 13561861.71 0.0088 0.0046

Jupiter 32419-01-06 04:48 G 13561861.58 13561861.70 13561861.81 0.0518 0.0222 *

Neptune 32419-04-04 03:36 G 13561949.53 13561949.65 13561949.78 0.0088 0.0039

Neptune 32419-07-01 05:02 G 13562037.59 13562037.71 13562037.84 0.0088 0.0032

Mars 32419-08-24 16:33 G 13562092.05 13562092.19 13562092.34 0.1706 0.0595

Neptune 32419-09-27 06:29 G 13562125.64 13562125.77 13562125.90 0.0088 0.0024

Neptune 32419-12-24 07:55 G 13562213.70 13562213.83 13562213.97 0.0088 0.0017

Neptune 32420-03-21 09:21 G 13562301.75 13562301.89 13562302.03 0.0088 0.0010

Neptune 32420-06-17 10:48 G 13562389.81 13562389.95 13562390.09 0.0088 0.0003

Mars 32420-06-18 11:31 G 13562390.88 13562390.98 13562391.09 0.1835 0.0862

Neptune 32420-09-13 12:14 G 13562477.87 13562478.01 13562478.15 0.0088 0.0005

Neptune 32420-12-10 13:41 G 13562565.93 13562566.07 13562566.20 0.0088 0.0012

Neptune 32421-03-08 15:07 G 13562653.99 13562654.13 13562654.26 0.0088 0.0019

Neptune 32421-06-04 16:33 G 13562742.06 13562742.19 13562742.32 0.0088 0.0027

Neptune 32421-08-31 17:45 G 13562830.12 13562830.24 13562830.37 0.0088 0.0034

Neptune 32421-11-27 19:12 G 13562918.19 13562918.30 13562918.43 0.0088 0.0041

Neptune 32422-02-23 20:53 G 13563006.25 13563006.37 13563006.48 0.0088 0.0049

Neptune 32422-05-22 22:05 G 13563094.32 13563094.42 13563094.54 0.0088 0.0056

Neptune 32422-08-18 23:31 G 13563182.39 13563182.48 13563182.58 0.0088 0.0064

Neptune 32422-11-15 01:12 G 13563270.47 13563270.55 13563270.63 0.0088 0.0071

Neptune 32423-02-11 02:24 G 13563358.55 13563358.60 13563358.67 0.0088 0.0078

Neptune 32423-05-10 04:05 G 13563446.64 13563446.67 13563446.71 0.0088 0.0085

Uranus 32423-09-26 08:09 G 13563585.79 13563585.84 13563585.90 0.0134 0.0127

Uranus 32423-12-23 14:24 G 13563674.00 13563674.10 13563674.23 0.0134 0.0104

Uranus 32424-03-20 20:53 G 13563762.23 13563762.37 13563762.52 0.0134 0.0080

Uranus 32424-06-17 03:07 G 13563850.48 13563850.63 13563850.81 0.0134 0.0057

Uranus 32424-09-13 09:36 G 13563938.73 13563938.90 13563939.08 0.0133 0.0033

Saturn 32424-12-09 06:00 G 13564025.66 13564025.75 13564025.83 0.0296 0.0259

Uranus 32424-12-10 15:50 G 13564026.98 13564027.16 13564027.35 0.0133 0.0010

Jupiter 32425-03-05 10:05 G 13564111.74 13564111.92 13564112.09 0.0508 0.0079

Saturn 32425-03-08 06:00 G 13564114.58 13564114.75 13564114.93 0.0297 0.0063

Uranus 32425-03-08 22:05 G 13564115.24 13564115.42 13564115.60 0.0133 0.0013

Uranus 32425-06-05 04:19 G 13564203.51 13564203.68 13564203.85 0.0133 0.0036

Saturn 32425-06-05 05:31 G 13564203.58 13564203.73 13564203.89 0.0297 0.0132 *

Uranus 32425-09-01 10:19 G 13564291.77 13564291.93 13564292.10 0.0133 0.0058

Uranus 32425-11-28 16:33 G 13564380.05 13564380.19 13564380.33 0.0133 0.0081

Uranus 32426-02-24 22:05 G 13564468.33 13564468.42 13564468.55 0.0133 0.0104

Uranus 32426-05-24 04:05 G 13564556.63 13564556.67 13564556.74 0.0133 0.0125

Earth 32427-10-27 16:05 G 13565078.02 13565078.17 13565078.32 0.2674 0.0756

Moon 32427-10-27 16:05 G 13565078.03 13565078.17 13565078.32 0.2681 0.0700 *

Moon 32430-05-02 08:24 G 13565995.78 13565995.85 13565995.93 0.2664 0.1978

Earth 32430-05-02 08:53 G 13565995.79 13565995.87 13565995.94 0.2658 0.1959 *

Jupiter 32430-10-25 08:09 G 13566171.71 13566171.84 13566171.97 0.0519 0.0062

Venus 32434-06-09 15:50 G 13567495.15 13567495.16 13567495.16 0.3683 0.3662

Jupiter 32436-12-22 08:09 G 13568421.67 13568421.84 13568422.02 0.0507 0.0109

Moon 32437-04-25 08:24 G 13568545.78 13568545.85 13568545.93 0.2651 0.1845

Earth 32437-04-25 08:53 G 13568545.79 13568545.87 13568545.95 0.2658 0.1804 *

Saturn 32438-10-07 04:05 G 13569075.58 13569075.67 13569075.76 0.0265 0.0198

Saturn 32439-01-03 14:24 G 13569163.97 13569164.10 13569164.23 0.0265 0.0096

Saturn 32439-04-02 00:43 G 13569252.40 13569252.53 13569252.67 0.0264 0.0010

Saturn 32439-06-29 11:17 G 13569340.85 13569340.97 13569341.10 0.0264 0.0109

Saturn 32439-09-25 21:50 G 13569429.34 13569429.41 13569429.50 0.0263 0.0213

Venus 32439-12-24 09:07 G 13569518.78 13569518.88 13569518.97 0.3683 0.1812

Earth 32440-10-29 22:48 G 13569829.36 13569829.45 13569829.55 0.2673 0.2138

Moon 32440-10-30 00:00 G 13569829.41 13569829.50 13569829.58 0.2679 0.2177 *

Mars 32441-03-06 19:12 G 13569957.25 13569957.30 13569957.36 0.1819 0.1571

Jupiter 32442-08-13 12:14 G 13570481.89 13570482.01 13570482.14 0.0520 0.0087

Jupiter 32442-11-10 18:43 G 13570571.26 13570571.28 13570571.29 0.0517 0.0510

Venus 32443-12-25 11:31 G 13570980.85 13570980.98 13570981.12 0.3688 0.0873

Venus 32445-07-09 02:24 G 13571542.49 13571542.60 13571542.71 0.3682 0.0145

Jupiter 32448-10-10 05:31 G 13572731.59 13572731.73 13572731.87 0.0506 0.0308

Jupiter 32449-01-08 13:26 G 13572822.01 13572822.06 13572822.11 0.0509 0.0483

Venus 32449-07-10 12:43 G 13573004.94 13573005.03 13573005.13 0.3689 0.2538

Mars 32449-10-02 14:53 G 13573088.99 13573089.12 13573089.25 0.1713 0.0946

Moon 32450-04-28 01:41 G 13573296.46 13573296.57 13573296.68 0.2656 0.0592

Earth 32450-04-28 02:24 G 13573296.49 13573296.60 13573296.70 0.2658 0.0485 *

Mars 32450-07-28 03:21 G 13573387.52 13573387.64 13573387.76 0.1827 0.0426

Venus 32451-01-22 20:09 G 13573566.25 13573566.34 13573566.43 0.3681 0.2063

Pluto 32454-04-12 02:53 G 13574741.59 13574741.62 13574741.67 0.0075 0.0073

Jupiter 32454-06-01 16:48 G 13574792.08 13574792.20 13574792.31 0.0520 0.0230

Pluto 32454-07-09 05:17 G 13574829.61 13574829.72 13574829.88 0.0075 0.0055

Saturn 32454-07-26 03:36 G 13574846.49 13574846.65 13574846.82 0.0297 0.0127

Jupiter 32454-08-29 22:48 G 13574881.36 13574881.45 13574881.54 0.0518 0.0367

Pluto 32454-10-05 08:09 G 13574917.68 13574917.84 13574918.03 0.0074 0.0036

Saturn 32454-10-23 03:21 G 13574935.47 13574935.64 13574935.82 0.0298 0.0069

Pluto 32455-01-01 10:48 G 13575005.77 13575005.95 13575006.15 0.0074 0.0017

Saturn 32455-01-20 02:38 G 13575024.54 13575024.61 13575024.70 0.0298 0.0261

Pluto 32455-03-30 13:41 G 13575093.87 13575094.07 13575094.27 0.0074 0.0001

Pluto 32455-06-26 16:19 G 13575181.99 13575182.18 13575182.37 0.0074 0.0020

Pluto 32455-09-22 18:29 G 13575270.11 13575270.27 13575270.46 0.0074 0.0038

Pluto 32455-12-19 20:53 G 13575358.26 13575358.37 13575358.52 0.0074 0.0056

Pluto 32456-03-16 23:45 G 13575446.49 13575446.49 13575446.51 0.0074 0.0074

Mars 32459-02-22 17:02 G 13576519.06 13576519.21 13576519.37 0.1705 0.0410

Mars 32459-12-18 11:31 G 13576817.87 13576817.98 13576818.10 0.1835 0.0717

Jupiter 32460-10-27 11:02 G 13577131.82 13577131.96 13577132.11 0.0508 0.0289

Moon 32463-04-30 19:12 G 13578047.20 13578047.30 13578047.41 0.2660 0.0837

Earth 32463-04-30 19:55 G 13578047.23 13578047.33 13578047.43 0.2658 0.0872 *

Jupiter 32466-03-20 21:21 G 13579102.30 13579102.39 13579102.48 0.0521 0.0367

Jupiter 32466-06-18 03:21 G 13579191.53 13579191.64 13579191.76 0.0519 0.0228

Uranus 32466-09-14 09:50 G 13579279.86 13579279.91 13579279.97 0.0145 0.0132

Uranus 32466-12-11 13:55 G 13579367.99 13579368.08 13579368.17 0.0145 0.0110

Uranus 32467-03-09 17:45 G 13579456.14 13579456.24 13579456.35 0.0145 0.0088

Uranus 32467-06-05 21:36 G 13579544.29 13579544.40 13579544.53 0.0145 0.0067

Uranus 32467-09-02 01:41 G 13579632.45 13579632.57 13579632.71 0.0145 0.0045

Uranus 32467-11-29 05:45 G 13579720.61 13579720.74 13579720.88 0.0145 0.0023

Saturn 32468-02-24 06:00 G 13579807.69 13579807.75 13579807.81 0.0265 0.0232

Uranus 32468-02-25 09:50 G 13579808.77 13579808.91 13579809.05 0.0145 0.0001

Saturn 32468-05-22 16:19 G 13579896.06 13579896.18 13579896.30 0.0265 0.0131

Uranus 32468-05-23 13:55 G 13579896.94 13579897.08 13579897.22 0.0145 0.0022

Saturn 32468-08-19 02:38 G 13579984.48 13579984.61 13579984.75 0.0264 0.0031

Uranus 32468-08-19 18:00 G 13579985.12 13579985.25 13579985.38 0.0145 0.0045

Saturn 32468-11-15 13:12 G 13580072.92 13580073.05 13580073.18 0.0264 0.0073

Uranus 32468-11-15 22:05 G 13580073.30 13580073.42 13580073.55 0.0145 0.0068

Saturn 32469-02-11 23:45 G 13580161.39 13580161.49 13580161.59 0.0263 0.0176

Uranus 32469-02-12 02:24 G 13580161.49 13580161.60 13580161.71 0.0145 0.0091 *

Uranus 32469-05-11 06:29 G 13580249.69 13580249.77 13580249.86 0.0145 0.0114

Uranus 32469-08-07 10:33 G 13580337.91 13580337.94 13580337.99 0.0145 0.0137

Jupiter 32472-08-15 08:38 G 13581441.69 13581441.86 13581442.04 0.0507 0.0092

Earth 32473-10-27 22:33 G 13581880.29 13581880.44 13581880.60 0.2674 0.0201

Moon 32473-10-27 22:48 G 13581880.30 13581880.45 13581880.61 0.2681 0.0191 *

Moon 32476-05-02 13:26 G 13582798.00 13582798.06 13582798.12 0.2665 0.2167

Earth 32476-05-02 13:41 G 13582798.01 13582798.07 13582798.12 0.2658 0.2241 *

Jupiter 32478-01-07 01:55 G 13583412.56 13583412.58 13583412.61 0.0522 0.0506

Jupiter 32478-04-06 07:55 G 13583501.70 13583501.83 13583501.96 0.0519 0.0087

Mars 32480-09-04 19:26 G 13584384.27 13584384.31 13584384.35 0.1819 0.1720

Moon 32483-04-26 13:12 G 13585347.96 13585348.05 13585348.14 0.2652 0.1560

Earth 32483-04-26 13:41 G 13585347.98 13585348.07 13585348.16 0.2658 0.1530 *

Saturn 32483-12-12 22:19 G 13585578.31 13585578.43 13585578.56 0.0296 0.0212

Saturn 32484-03-10 22:19 G 13585667.25 13585667.43 13585667.61 0.0297 0.0016

Jupiter 32484-06-03 07:12 G 13585751.62 13585751.80 13585751.97 0.0507 0.0095

Saturn 32484-06-07 21:50 G 13585756.27 13585756.41 13585756.55 0.0297 0.0178

Mars 32489-04-02 15:36 G 13587516.03 13587516.15 13587516.26 0.1713 0.1135

Jupiter 32490-01-23 11:31 G 13587811.85 13587811.98 13587812.11 0.0519 0.0072

Mars 32490-01-26 03:21 G 13587814.53 13587814.64 13587814.76 0.1827 0.0574

Venus 32491-01-14 13:41 G 13588168.01 13588168.07 13588168.13 0.3683 0.3017

Venus 32495-01-15 10:05 G 13589629.86 13589629.92 13589629.98 0.3688 0.3244

Jupiter 32496-03-22 05:17 G 13590061.57 13590061.72 13590061.87 0.0506 0.0282

Moon 32496-04-28 06:29 G 13590098.66 13590098.77 13590098.88 0.2658 0.0308

Earth 32496-04-28 07:12 G 13590098.69 13590098.80 13590098.91 0.2658 0.0221 *

Venus 32496-07-30 06:57 G 13590191.69 13590191.79 13590191.90 0.3682 0.1143

Saturn 32497-07-13 08:24 G 13590539.85 13590539.85 13590539.86 0.0266 0.0265

Saturn 32497-10-09 18:43 G 13590628.18 13590628.28 13590628.39 0.0265 0.0164

Saturn 32498-01-06 05:17 G 13590716.58 13590716.72 13590716.85 0.0265 0.0062

Saturn 32498-04-04 15:36 G 13590805.02 13590805.15 13590805.29 0.0264 0.0041

Saturn 32498-07-02 02:09 G 13590893.48 13590893.59 13590893.71 0.0264 0.0144

Mars 32498-08-23 17:45 G 13590946.08 13590946.24 13590946.39 0.1706 0.0219

Saturn 32498-09-28 12:43 G 13590981.99 13590982.03 13590982.08 0.0263 0.0248

Mars 32499-06-18 11:31 G 13591244.87 13591244.98 13591245.10 0.1835 0.0577

Venus 32500-08-01 11:45 G 13591653.85 13591653.99 13591654.12 0.3689 0.0301

Jupiter 32501-11-12 15:36 G 13592122.04 13592122.15 13592122.27 0.0520 0.0219

Neptune 32502-01-03 17:31 G 13592174.18 13592174.23 13592174.32 0.0089 0.0082

Jupiter 32502-02-09 21:50 G 13592211.32 13592211.41 13592211.50 0.0517 0.0376

Venus 32502-02-14 00:29 G 13592215.41 13592215.52 13592215.63 0.3682 0.0777

Neptune 32502-04-01 20:53 G 13592262.28 13592262.37 13592262.50 0.0089 0.0072

Neptune 32502-06-29 00:29 G 13592350.39 13592350.52 13592350.66 0.0089 0.0061

Neptune 32502-09-25 03:50 G 13592438.51 13592438.66 13592438.81 0.0089 0.0051

Neptune 32502-12-22 06:57 G 13592526.63 13592526.79 13592526.97 0.0089 0.0041

Neptune 32503-03-20 10:19 G 13592614.76 13592614.93 13592615.11 0.0089 0.0031

Neptune 32503-06-16 13:41 G 13592702.89 13592703.07 13592703.25 0.0089 0.0021

Neptune 32503-09-12 16:48 G 13592791.02 13592791.20 13592791.39 0.0089 0.0011

Neptune 32503-12-09 20:09 G 13592879.16 13592879.34 13592879.53 0.0089 0.0002

Neptune 32504-03-06 23:31 G 13592967.30 13592967.48 13592967.67 0.0089 0.0010

Neptune 32504-06-03 02:38 G 13593055.43 13593055.61 13593055.80 0.0089 0.0020

Neptune 32504-08-30 05:45 G 13593143.58 13593143.74 13593143.92 0.0089 0.0030

Neptune 32504-11-26 08:53 G 13593231.72 13593231.87 13593232.05 0.0089 0.0040

Neptune 32505-02-22 12:00 G 13593319.86 13593320.00 13593320.17 0.0089 0.0050

Neptune 32505-05-21 15:36 G 13593408.01 13593408.15 13593408.29 0.0089 0.0059

Neptune 32505-08-17 18:43 G 13593496.17 13593496.28 13593496.40 0.0089 0.0069

Neptune 32505-11-13 21:36 G 13593584.33 13593584.40 13593584.50 0.0089 0.0079

Neptune 32506-02-10 00:57 G 13593672.54 13593672.54 13593672.55 0.0089 0.0089

Venus 32506-02-15 12:43 G 13593678.01 13593678.03 13593678.05 0.3690 0.3641

Moon 32506-10-26 21:36 G 13593931.36 13593931.40 13593931.44 0.2680 0.2583

Earth 32506-10-26 22:05 G 13593931.38 13593931.42 13593931.46 0.2674 0.2590 *

Venus 32507-08-30 18:14 G 13594239.18 13594239.26 13594239.33 0.3681 0.2772

Uranus 32507-10-17 16:19 G 13594287.10 13594287.18 13594287.28 0.0134 0.0117

Jupiter 32508-01-10 02:24 G 13594371.55 13594371.60 13594371.65 0.0506 0.0482

Uranus 32508-01-13 22:48 G 13594375.33 13594375.45 13594375.59 0.0134 0.0093

Mars 32508-01-14 19:55 G 13594376.27 13594376.33 13594376.39 0.1698 0.1556

Jupiter 32508-04-09 10:48 G 13594461.81 13594461.95 13594462.09 0.0508 0.0313

Uranus 32508-04-11 05:17 G 13594463.57 13594463.72 13594463.88 0.0134 0.0069

Uranus 32508-07-08 11:45 G 13594551.82 13594551.99 13594552.16 0.0134 0.0046

Uranus 32508-10-04 18:00 G 13594640.07 13594640.25 13594640.43 0.0133 0.0023

Mars 32508-11-08 19:41 G 13594675.29 13594675.32 13594675.36 0.1843 0.1730

Uranus 32509-01-01 00:14 G 13594728.33 13594728.51 13594728.69 0.0133 0.0002

Uranus 32509-03-30 06:29 G 13594816.59 13594816.77 13594816.95 0.0133 0.0023

Moon 32509-05-02 00:14 G 13594849.41 13594849.51 13594849.61 0.2661 0.1032

Earth 32509-05-02 00:43 G 13594849.43 13594849.53 13594849.63 0.2658 0.1154 *

Uranus 32509-06-26 12:29 G 13594904.86 13594905.02 13594905.20 0.0133 0.0046

Uranus 32509-09-22 18:43 G 13594993.13 13594993.28 13594993.43 0.0133 0.0068

Uranus 32509-12-20 00:43 G 13595081.40 13595081.53 13595081.66 0.0133 0.0091

Uranus 32510-03-18 06:29 G 13595169.69 13595169.77 13595169.88 0.0133 0.0113

Saturn 32513-05-01 19:55 G 13596310.27 13596310.33 13596310.40 0.0296 0.0276

Saturn 32513-07-29 20:09 G 13596399.17 13596399.34 13596399.51 0.0297 0.0079

Jupiter 32513-08-31 19:55 G 13596432.24 13596432.33 13596432.43 0.0521 0.0364

Saturn 32513-10-26 19:41 G 13596488.16 13596488.32 13596488.49 0.0298 0.0117

Jupiter 32513-11-29 02:09 G 13596521.47 13596521.59 13596521.70 0.0518 0.0232

Moon 32516-04-25 00:57 G 13597399.50 13597399.54 13597399.57 0.2651 0.2514

Earth 32516-04-25 00:57 G 13597399.51 13597399.54 13597399.56 0.2657 0.2570 *

Earth 32519-10-30 05:17 G 13598682.57 13598682.72 13598682.88 0.2674 0.0366

Moon 32519-10-30 05:45 G 13598682.58 13598682.74 13598682.89 0.2680 0.0413 *

Jupiter 32520-01-27 08:24 G 13598771.68 13598771.85 13598772.03 0.0507 0.0118

Moon 32522-05-04 18:14 G 13599600.24 13599600.26 13599600.29 0.2665 0.2578

Earth 32522-05-04 18:29 G 13599600.24 13599600.27 13599600.30 0.2658 0.2521 *

Jupiter 32525-06-20 00:43 G 13600742.50 13600742.53 13600742.56 0.0522 0.0501

Jupiter 32525-09-17 06:43 G 13600831.65 13600831.78 13600831.90 0.0519 0.0092

Saturn 32527-02-27 20:38 G 13601360.28 13601360.36 13601360.46 0.0265 0.0199

Saturn 32527-05-27 07:12 G 13601448.68 13601448.80 13601448.93 0.0265 0.0096

Saturn 32527-08-23 17:31 G 13601537.10 13601537.23 13601537.37 0.0264 0.0011

Saturn 32527-11-20 04:05 G 13601625.55 13601625.67 13601625.80 0.0264 0.0109

Saturn 32528-02-16 14:38 G 13601714.04 13601714.11 13601714.19 0.0263 0.0212

Mars 32528-10-02 15:50 G 13601943.06 13601943.16 13601943.26 0.1713 0.1312

Moon 32529-04-27 18:00 G 13602150.15 13602150.25 13602150.34 0.2653 0.1351

Earth 32529-04-27 18:14 G 13602150.17 13602150.26 13602150.36 0.2658 0.1257 *

Mars 32529-07-28 03:36 G 13602241.54 13602241.65 13602241.76 0.1827 0.0733

Jupiter 32531-11-15 06:00 G 13603081.57 13603081.75 13603081.92 0.0507 0.0082

Jupiter 32537-07-06 11:17 G 13605141.84 13605141.97 13605142.10 0.0520 0.0051

Mars 32538-02-22 18:14 G 13605373.11 13605373.26 13605373.42 0.1706 0.0034

Mars 32538-12-18 11:45 G 13605671.87 13605671.99 13605672.10 0.1835 0.0434

Moon 32542-04-30 11:17 G 13606900.86 13606900.97 13606901.08 0.2658 0.0094

Earth 32542-04-30 12:00 G 13606900.89 13606901.00 13606901.11 0.2658 0.0114 *

Saturn 32542-12-16 15:07 G 13607130.98 13607131.13 13607131.28 0.0296 0.0161

Saturn 32543-03-15 15:07 G 13607219.95 13607220.13 13607220.30 0.0297 0.0035

Saturn 32543-06-12 14:24 G 13607308.99 13607309.10 13607309.22 0.0298 0.0228

Jupiter 32543-09-03 04:05 G 13607391.52 13607391.67 13607391.83 0.0506 0.0269

Mars 32547-07-15 20:24 G 13608803.26 13608803.35 13608803.44 0.1699 0.1372

Venus 32547-08-22 11:31 G 13608840.90 13608840.98 13608841.06 0.3683 0.2368

Mars 32548-05-09 19:55 G 13609102.27 13609102.33 13609102.39 0.1843 0.1583

Jupiter 32549-04-24 14:53 G 13609452.00 13609452.12 13609452.24 0.0520 0.0205

Jupiter 32549-07-22 21:07 G 13609541.29 13609541.38 13609541.46 0.0517 0.0390

Uranus 32550-10-05 16:48 G 13609981.15 13609981.20 13609981.27 0.0145 0.0128

Uranus 32551-01-01 20:38 G 13610069.28 13610069.36 13610069.46 0.0145 0.0107

Uranus 32551-03-31 00:43 G 13610157.42 13610157.53 13610157.64 0.0145 0.0085

Uranus 32551-06-27 04:33 G 13610245.57 13610245.69 13610245.82 0.0145 0.0063

Venus 32551-08-23 10:19 G 13610302.81 13610302.93 13610303.04 0.3688 0.2063

Uranus 32551-09-23 08:38 G 13610333.73 13610333.86 13610334.00 0.0145 0.0041

Uranus 32551-12-20 12:43 G 13610421.89 13610422.03 13610422.17 0.0145 0.0019

Uranus 32552-03-17 16:48 G 13610510.06 13610510.20 13610510.34 0.0145 0.0004

Uranus 32552-06-13 20:53 G 13610598.23 13610598.37 13610598.50 0.0145 0.0026

Uranus 32552-09-10 00:57 G 13610686.41 13610686.54 13610686.67 0.0145 0.0049

Moon 32552-10-27 04:19 G 13610733.59 13610733.68 13610733.77 0.2681 0.2172

Earth 32552-10-27 04:48 G 13610733.59 13610733.70 13610733.80 0.2674 0.2025 *

Uranus 32552-12-07 05:02 G 13610774.59 13610774.71 13610774.83 0.0145 0.0072

Uranus 32553-03-05 09:07 G 13610862.78 13610862.88 13610862.99 0.0145 0.0095

Venus 32553-03-07 04:48 G 13610864.59 13610864.70 13610864.81 0.3682 0.0491

Uranus 32553-06-01 13:26 G 13610950.98 13610951.06 13610951.14 0.0145 0.0117

Uranus 32553-08-28 17:31 G 13611039.20 13611039.23 13611039.27 0.0145 0.0141

Moon 32555-05-03 05:02 G 13611651.62 13611651.71 13611651.81 0.2663 0.1396

Earth 32555-05-03 05:31 G 13611651.64 13611651.73 13611651.82 0.2658 0.1435 *

Jupiter 32555-06-22 01:55 G 13611701.51 13611701.58 13611701.66 0.0506 0.0459

Jupiter 32555-09-20 10:33 G 13611791.81 13611791.94 13611792.07 0.0508 0.0338

Saturn 32556-07-16 23:02 G 13612092.40 13612092.46 13612092.53 0.0266 0.0232

Saturn 32556-10-13 09:36 G 13612180.78 13612180.90 13612181.02 0.0265 0.0130

Saturn 32557-01-09 19:55 G 13612269.20 13612269.33 13612269.47 0.0265 0.0027

Venus 32557-03-08 11:45 G 13612326.86 13612326.99 13612327.11 0.3689 0.1442

Saturn 32557-04-08 06:29 G 13612357.64 13612357.77 13612357.90 0.0264 0.0076

Saturn 32557-07-05 17:02 G 13612446.11 13612446.21 13612446.31 0.0264 0.0180

Venus 32558-09-20 22:19 G 13612888.33 13612888.43 13612888.54 0.3682 0.1468

Jupiter 32561-02-10 19:12 G 13613762.20 13613762.30 13613762.39 0.0520 0.0352

Jupiter 32561-05-11 00:57 G 13613851.43 13613851.54 13613851.66 0.0518 0.0242

Earth 32562-04-26 05:45 G 13614201.68 13614201.74 13614201.79 0.2657 0.2299

Moon 32562-04-26 05:31 G 13614201.69 13614201.73 13614201.78 0.2650 0.2365 *

Venus 32564-04-05 16:05 G 13614912.14 13614912.17 13614912.21 0.3681 0.3469

Earth 32565-10-30 12:00 G 13615484.85 13615485.00 13615485.14 0.2674 0.0922

Moon 32565-10-30 12:29 G 13615484.88 13615485.02 13615485.17 0.2679 0.1059 *

Jupiter 32567-07-09 07:55 G 13616101.66 13616101.83 13616102.01 0.0508 0.0141

Mars 32568-04-02 16:33 G 13616370.12 13616370.19 13616370.26 0.1714 0.1512

Mars 32569-01-26 03:36 G 13616668.54 13616668.65 13616668.75 0.1827 0.0862

Saturn 32572-05-04 12:57 G 13617862.93 13617863.04 13617863.16 0.0296 0.0224

Saturn 32572-08-01 12:57 G 13617951.86 13617952.04 13617952.22 0.0297 0.0028

Saturn 32572-10-29 12:29 G 13618040.88 13618041.02 13618041.17 0.0298 0.0168

Jupiter 32572-11-29 23:17 G 13618072.44 13618072.47 13618072.51 0.0522 0.0497

Jupiter 32573-02-27 05:17 G 13618161.59 13618161.72 13618161.85 0.0519 0.0095

Moon 32575-04-28 22:33 G 13618952.34 13618952.44 13618952.54 0.2654 0.1009

Earth 32575-04-28 23:02 G 13618952.36 13618952.46 13618952.57 0.2657 0.0986 *

Mars 32577-08-23 18:43 G 13619800.12 13619800.28 13619800.43 0.1706 0.0157

Mars 32578-06-18 11:45 G 13620098.87 13620098.99 13620099.11 0.1835 0.0279

Jupiter 32579-04-27 05:31 G 13620411.55 13620411.73 13620411.91 0.0507 0.0057

Neptune 32582-04-23 16:48 G 13621504.20 13621504.20 13621504.21 0.0088 0.0088

Neptune 32582-07-20 18:00 G 13621592.21 13621592.25 13621592.32 0.0088 0.0081

Neptune 32582-10-16 19:26 G 13621680.25 13621680.31 13621680.39 0.0088 0.0074

Neptune 32583-01-12 21:07 G 13621768.29 13621768.38 13621768.47 0.0088 0.0067

Neptune 32583-04-10 22:19 G 13621856.34 13621856.43 13621856.54 0.0088 0.0060

Neptune 32583-07-07 23:45 G 13621944.39 13621944.49 13621944.60 0.0088 0.0053

Neptune 32583-10-04 01:12 G 13622032.44 13622032.55 13622032.67 0.0088 0.0045

Neptune 32583-12-31 02:24 G 13622120.49 13622120.60 13622120.73 0.0088 0.0039

Neptune 32584-03-28 03:50 G 13622208.54 13622208.66 13622208.80 0.0088 0.0032

Neptune 32584-06-24 05:31 G 13622296.60 13622296.73 13622296.86 0.0088 0.0024

Neptune 32584-09-20 06:57 G 13622384.65 13622384.79 13622384.92 0.0088 0.0016

Jupiter 32584-12-16 09:50 G 13622471.78 13622471.91 13622472.04 0.0520 0.0045

Neptune 32584-12-17 08:24 G 13622472.71 13622472.85 13622472.98 0.0088 0.0009

Neptune 32585-03-15 09:50 G 13622560.77 13622560.91 13622561.04 0.0088 0.0003

Neptune 32585-06-11 11:02 G 13622648.83 13622648.96 13622649.10 0.0088 0.0006

Neptune 32585-09-07 12:29 G 13622736.89 13622737.02 13622737.16 0.0088 0.0013

Saturn 32585-12-04 01:26 G 13622824.55 13622824.56 13622824.57 0.0266 0.0264

Neptune 32585-12-04 13:55 G 13622824.95 13622825.08 13622825.22 0.0088 0.0020

Saturn 32586-03-02 11:45 G 13622912.89 13622912.99 13622913.10 0.0265 0.0162

Neptune 32586-03-02 15:21 G 13622913.01 13622913.14 13622913.28 0.0088 0.0027 *

Neptune 32586-05-29 16:48 G 13623001.08 13623001.20 13623001.33 0.0088 0.0035

Saturn 32586-05-29 22:05 G 13623001.29 13623001.42 13623001.56 0.0265 0.0060 *

Neptune 32586-08-25 18:14 G 13623089.14 13623089.26 13623089.39 0.0088 0.0042

Saturn 32586-08-26 08:38 G 13623089.72 13623089.86 13623089.99 0.0264 0.0043

Neptune 32586-11-21 19:41 G 13623177.21 13623177.32 13623177.44 0.0088 0.0049

Saturn 32586-11-22 19:12 G 13623178.19 13623178.30 13623178.41 0.0264 0.0146

Mars 32587-01-13 20:53 G 13623230.26 13623230.37 13623230.49 0.1699 0.1182

Neptune 32587-02-17 20:53 G 13623265.28 13623265.37 13623265.49 0.0088 0.0058

Saturn 32587-02-19 05:45 G 13623266.70 13623266.74 13623266.78 0.0263 0.0250

Neptune 32587-05-16 22:33 G 13623353.35 13623353.44 13623353.54 0.0088 0.0064

Neptune 32587-08-13 00:00 G 13623441.43 13623441.50 13623441.59 0.0088 0.0072

Mars 32587-11-08 19:55 G 13623529.26 13623529.33 13623529.41 0.1842 0.1431

Neptune 32587-11-09 01:26 G 13623529.51 13623529.56 13623529.63 0.0088 0.0079

Neptune 32588-02-05 02:53 G 13623617.61 13623617.62 13623617.66 0.0088 0.0087

Moon 32588-04-30 16:05 G 13623703.06 13623703.17 13623703.28 0.2658 0.0250

Earth 32588-04-30 16:48 G 13623703.09 13623703.20 13623703.31 0.2658 0.0370 *

Jupiter 32591-02-13 02:38 G 13624721.46 13624721.61 13624721.77 0.0506 0.0258

Uranus 32591-08-10 18:00 G 13624900.23 13624900.25 13624900.30 0.0134 0.0131

Uranus 32591-11-07 00:29 G 13624988.43 13624988.52 13624988.64 0.0134 0.0107

Uranus 32592-02-03 07:12 G 13625076.66 13625076.80 13625076.95 0.0134 0.0083

Uranus 32592-05-01 13:26 G 13625164.91 13625165.06 13625165.23 0.0134 0.0060

Uranus 32592-07-28 19:55 G 13625253.16 13625253.33 13625253.51 0.0134 0.0036

Uranus 32592-10-25 02:09 G 13625341.41 13625341.59 13625341.78 0.0134 0.0013

Uranus 32593-01-21 08:24 G 13625429.67 13625429.85 13625430.03 0.0133 0.0011

Uranus 32593-04-19 14:38 G 13625517.94 13625518.11 13625518.29 0.0133 0.0033

Uranus 32593-07-16 20:38 G 13625606.20 13625606.36 13625606.53 0.0133 0.0056

Uranus 32593-10-13 02:38 G 13625694.48 13625694.61 13625694.77 0.0133 0.0078

Uranus 32594-01-09 08:38 G 13625782.76 13625782.86 13625782.99 0.0133 0.0101

Uranus 32594-04-07 14:38 G 13625871.06 13625871.11 13625871.19 0.0133 0.0123

Jupiter 32596-10-04 14:24 G 13626781.98 13626782.10 13626782.22 0.0520 0.0185

Jupiter 32597-01-01 20:24 G 13626871.28 13626871.35 13626871.43 0.0518 0.0411

Venus 32598-09-12 16:19 G 13627490.15 13627490.18 13627490.20 0.3683 0.3573

Moon 32598-10-28 11:02 G 13627535.83 13627535.96 13627536.09 0.2681 0.1391

Earth 32598-10-28 11:17 G 13627535.84 13627535.97 13627536.10 0.2674 0.1460 *

Moon 32601-05-04 10:05 G 13628453.83 13628453.92 13628454.00 0.2664 0.1674

Earth 32601-05-04 10:19 G 13628453.85 13628453.93 13628454.01 0.2658 0.1718 *

Saturn 32601-12-20 08:24 G 13628683.68 13628683.85 13628684.02 0.0296 0.0107

Saturn 32602-03-19 08:09 G 13628772.67 13628772.84 13628773.01 0.0297 0.0088

Saturn 32602-06-16 07:26 G 13628861.76 13628861.81 13628861.87 0.0298 0.0281

Jupiter 32602-12-03 00:43 G 13629031.45 13629031.53 13629031.61 0.0506 0.0447

Jupiter 32603-03-03 09:07 G 13629121.76 13629121.88 13629122.01 0.0508 0.0350

Venus 32604-03-29 09:21 G 13629513.80 13629513.89 13629513.99 0.3683 0.1721

Mars 32607-10-03 17:02 G 13630797.20 13630797.21 13630797.22 0.1714 0.1702

Venus 32608-03-30 10:19 G 13630975.80 13630975.93 13630976.07 0.3688 0.0868

Moon 32608-04-27 10:19 G 13631003.86 13631003.93 13631004.00 0.2651 0.1990

Earth 32608-04-27 10:19 G 13631003.87 13631003.93 13631004.00 0.2657 0.2034 *

Jupiter 32608-07-24 18:14 G 13631092.16 13631092.26 13631092.36 0.0520 0.0339

Mars 32608-07-28 03:36 G 13631095.55 13631095.65 13631095.75 0.1826 0.1016

Jupiter 32608-10-22 00:14 G 13631181.39 13631181.51 13631181.62 0.0518 0.0254

Venus 32609-10-13 02:53 G 13631537.51 13631537.62 13631537.73 0.3682 0.0206

Earth 32611-11-01 18:29 G 13632287.14 13632287.27 13632287.40 0.2674 0.1472

Moon 32611-11-01 19:41 G 13632287.19 13632287.32 13632287.44 0.2679 0.1531 *

Venus 32613-10-14 11:45 G 13632999.89 13632999.99 13633000.08 0.3689 0.2565

Pluto 32614-04-30 01:26 G 13633197.56 13633197.56 13633197.57 0.0069 0.0069

Pluto 32614-07-27 01:41 G 13633285.52 13633285.57 13633285.65 0.0070 0.0060

Pluto 32614-10-23 02:24 G 13633373.52 13633373.60 13633373.70 0.0070 0.0050

Jupiter 32614-12-20 07:26 G 13633431.64 13633431.81 13633431.98 0.0508 0.0161

Pluto 32615-01-19 02:53 G 13633461.53 13633461.62 13633461.74 0.0070 0.0040

Pluto 32615-04-17 03:36 G 13633549.54 13633549.65 13633549.77 0.0070 0.0030

Venus 32615-04-28 20:24 G 13633561.26 13633561.35 13633561.44 0.3681 0.2166

Pluto 32615-07-14 04:05 G 13633637.55 13633637.67 13633637.80 0.0070 0.0020

Saturn 32615-07-21 14:09 G 13633645.00 13633645.09 13633645.18 0.0266 0.0196

Pluto 32615-10-10 04:48 G 13633725.57 13633725.70 13633725.83 0.0070 0.0010

Saturn 32615-10-18 00:29 G 13633733.39 13633733.52 13633733.65 0.0265 0.0093

Pluto 32616-01-06 05:31 G 13633813.59 13633813.73 13633813.86 0.0070 0.0003

Saturn 32616-01-14 11:02 G 13633821.82 13633821.96 13633822.09 0.0265 0.0013

Pluto 32616-04-03 06:00 G 13633901.62 13633901.75 13633901.88 0.0070 0.0011

Saturn 32616-04-11 21:36 G 13633910.27 13633910.40 13633910.52 0.0264 0.0114

Pluto 32616-06-30 06:29 G 13633989.65 13633989.77 13633989.90 0.0070 0.0021

Saturn 32616-07-09 07:55 G 13633998.76 13633998.83 13633998.92 0.0264 0.0218

Pluto 32616-09-26 06:57 G 13634077.68 13634077.79 13634077.91 0.0071 0.0031

Pluto 32616-12-23 07:26 G 13634165.72 13634165.81 13634165.93 0.0071 0.0042

Mars 32617-02-22 19:26 G 13634227.15 13634227.31 13634227.46 0.1706 0.0359

Pluto 32617-03-21 08:09 G 13634253.76 13634253.84 13634253.93 0.0071 0.0052

Pluto 32617-06-17 08:38 G 13634341.81 13634341.86 13634341.93 0.0071 0.0063

Mars 32617-12-18 11:45 G 13634525.87 13634525.99 13634526.11 0.1834 0.0138

Jupiter 32620-05-12 22:19 G 13635402.39 13635402.43 13635402.48 0.0521 0.0486

Jupiter 32620-08-10 04:19 G 13635491.55 13635491.68 13635491.80 0.0518 0.0106

Moon 32621-04-30 03:21 G 13635754.53 13635754.64 13635754.74 0.2655 0.0862

Earth 32621-04-30 03:50 G 13635754.56 13635754.66 13635754.77 0.2657 0.0710 *

Mars 32626-07-15 21:36 G 13637657.27 13637657.40 13637657.52 0.1699 0.0987

Jupiter 32626-10-08 04:48 G 13637741.52 13637741.70 13637741.88 0.0507 0.0040

Mars 32627-05-10 19:55 G 13637956.24 13637956.33 13637956.41 0.1843 0.1300

Saturn 32631-05-09 06:57 G 13639415.64 13639415.79 13639415.94 0.0296 0.0164

Saturn 32631-08-06 06:57 G 13639504.61 13639504.79 13639504.96 0.0297 0.0033

Saturn 32631-11-03 06:14 G 13639593.65 13639593.76 13639593.88 0.0298 0.0226

Jupiter 32632-05-29 08:24 G 13639801.72 13639801.85 13639801.98 0.0520 0.0043

Moon 32634-05-02 20:53 G 13640505.26 13640505.37 13640505.48 0.2659 0.0583

Earth 32634-05-02 21:36 G 13640505.29 13640505.40 13640505.50 0.2657 0.0641 *

Uranus 32634-07-30 20:24 G 13640594.34 13640594.35 13640594.38 0.0144 0.0143

Uranus 32634-10-27 00:14 G 13640682.45 13640682.51 13640682.59 0.0144 0.0122

Uranus 32635-01-23 04:19 G 13640770.59 13640770.68 13640770.78 0.0145 0.0100

Uranus 32635-04-21 08:24 G 13640858.73 13640858.85 13640858.96 0.0145 0.0078

Uranus 32635-07-18 12:14 G 13640946.89 13640947.01 13640947.14 0.0145 0.0056

Uranus 32635-10-14 16:05 G 13641035.04 13641035.17 13641035.31 0.0145 0.0035

Uranus 32636-01-10 20:09 G 13641123.21 13641123.34 13641123.48 0.0145 0.0013

Uranus 32636-04-08 00:14 G 13641211.37 13641211.51 13641211.65 0.0145 0.0011

Uranus 32636-07-05 04:19 G 13641299.55 13641299.68 13641299.82 0.0145 0.0033

Uranus 32636-10-01 08:24 G 13641387.72 13641387.85 13641387.98 0.0145 0.0055

Uranus 32636-12-28 12:29 G 13641475.91 13641476.02 13641476.14 0.0145 0.0078

Uranus 32637-03-26 16:33 G 13641564.10 13641564.19 13641564.30 0.0145 0.0101

Uranus 32637-06-22 20:38 G 13641652.30 13641652.36 13641652.44 0.0145 0.0124

Jupiter 32638-07-27 01:55 G 13642051.43 13642051.58 13642051.75 0.0506 0.0238

Jupiter 32644-03-17 12:57 G 13644111.92 13644112.04 13644112.16 0.0520 0.0184

Jupiter 32644-06-14 18:57 G 13644201.22 13644201.29 13644201.37 0.0518 0.0412

Earth 32644-10-29 18:00 G 13644338.10 13644338.25 13644338.40 0.2674 0.0891

Moon 32644-10-29 18:00 G 13644338.11 13644338.25 13644338.39 0.2681 0.0996 *

Saturn 32644-12-07 16:33 G 13644377.12 13644377.19 13644377.26 0.0266 0.0226

Saturn 32645-03-06 02:53 G 13644465.50 13644465.62 13644465.74 0.0265 0.0124

Saturn 32645-06-02 13:26 G 13644553.92 13644554.06 13644554.19 0.0265 0.0022

Saturn 32645-08-29 23:45 G 13644642.37 13644642.49 13644642.62 0.0264 0.0083

Saturn 32645-11-26 10:33 G 13644730.84 13644730.94 13644731.03 0.0264 0.0186

Moon 32647-05-05 14:53 G 13645256.04 13645256.12 13645256.19 0.2664 0.1942

Earth 32647-05-05 15:07 G 13645256.06 13645256.13 13645256.20 0.2658 0.1996 *

Mars 32648-01-27 03:36 G 13645522.56 13645522.65 13645522.75 0.1826 0.1170

Jupiter 32650-05-14 23:02 G 13646361.38 13646361.46 13646361.55 0.0506 0.0440

Jupiter 32650-08-13 07:26 G 13646451.69 13646451.81 13646451.94 0.0508 0.0356

Moon 32654-04-28 14:53 G 13647806.04 13647806.12 13647806.20 0.2652 0.1839

Earth 32654-04-28 15:07 G 13647806.05 13647806.13 13647806.22 0.2657 0.1757 *

Venus 32655-04-20 14:09 G 13648163.02 13648163.09 13648163.15 0.3683 0.2931

Jupiter 32656-01-04 17:31 G 13648422.13 13648422.23 13648422.33 0.0521 0.0324

Jupiter 32656-04-02 23:31 G 13648511.37 13648511.48 13648511.59 0.0518 0.0270

Mars 32656-08-23 19:55 G 13648654.18 13648654.33 13648654.48 0.1707 0.0549

Mars 32657-06-18 11:45 G 13648952.87 13648952.99 13648953.11 0.1834 0.0032

Earth 32657-11-02 00:57 G 13649089.44 13649089.54 13649089.64 0.2674 0.2015

Moon 32657-11-02 02:09 G 13649089.51 13649089.59 13649089.67 0.2679 0.2275 *

Venus 32659-04-21 08:38 G 13649624.80 13649624.86 13649624.92 0.3688 0.3280

Saturn 32660-09-25 02:38 G 13650147.52 13650147.61 13650147.72 0.0296 0.0241

Venus 32660-11-03 07:26 G 13650186.70 13650186.81 13650186.91 0.3682 0.1063

Saturn 32660-12-23 02:53 G 13650236.44 13650236.62 13650236.80 0.0296 0.0043

Saturn 32661-03-22 02:24 G 13650325.45 13650325.60 13650325.76 0.0297 0.0151

Jupiter 32662-06-01 05:45 G 13650761.57 13650761.74 13650761.91 0.0508 0.0169

Venus 32664-11-04 10:33 G 13651648.80 13651648.94 13651649.07 0.3688 0.0316

Mars 32666-01-13 22:05 G 13652084.28 13652084.42 13652084.56 0.1699 0.0796

Venus 32666-05-20 00:43 G 13652210.43 13652210.53 13652210.64 0.3682 0.0885

Neptune 32666-10-01 14:38 G 13652345.05 13652345.11 13652345.19 0.0089 0.0082

Mars 32666-11-08 19:55 G 13652383.24 13652383.33 13652383.42 0.1842 0.1147

Neptune 32666-12-28 17:45 G 13652433.15 13652433.24 13652433.37 0.0089 0.0072

Neptune 32667-03-26 21:36 G 13652521.27 13652521.40 13652521.54 0.0089 0.0061

Moon 32667-05-01 07:55 G 13652556.73 13652556.83 13652556.94 0.2655 0.0477

Earth 32667-05-01 08:38 G 13652556.76 13652556.86 13652556.97 0.2657 0.0441 *

Neptune 32667-06-23 00:43 G 13652609.39 13652609.53 13652609.69 0.0089 0.0051

Neptune 32667-09-19 04:05 G 13652697.51 13652697.67 13652697.84 0.0089 0.0041

Jupiter 32667-10-23 21:21 G 13652732.34 13652732.39 13652732.44 0.0521 0.0475

Neptune 32667-12-16 07:12 G 13652785.64 13652785.80 13652785.99 0.0089 0.0031

Jupiter 32668-01-21 03:07 G 13652821.51 13652821.63 13652821.76 0.0518 0.0117

Neptune 32668-03-13 10:33 G 13652873.77 13652873.94 13652874.13 0.0089 0.0021

Neptune 32668-06-09 14:09 G 13652961.90 13652962.09 13652962.27 0.0089 0.0010

Neptune 32668-09-05 17:17 G 13653050.04 13653050.22 13653050.41 0.0089 0.0002

Neptune 32668-12-02 20:38 G 13653138.18 13653138.36 13653138.54 0.0089 0.0010

Neptune 32669-02-28 23:45 G 13653226.31 13653226.49 13653226.68 0.0089 0.0020

Neptune 32669-05-28 02:53 G 13653314.45 13653314.62 13653314.80 0.0089 0.0030

Neptune 32669-08-24 06:00 G 13653402.60 13653402.75 13653402.93 0.0089 0.0040

Neptune 32669-11-20 09:07 G 13653490.74 13653490.88 13653491.05 0.0089 0.0050

Neptune 32670-02-16 12:14 G 13653578.89 13653579.01 13653579.17 0.0089 0.0060

Neptune 32670-05-15 15:21 G 13653667.05 13653667.14 13653667.28 0.0089 0.0070

Venus 32670-05-21 11:31 G 13653672.98 13653672.98 13653672.99 0.3689 0.3686

Neptune 32670-08-11 18:57 G 13653755.21 13653755.29 13653755.37 0.0089 0.0080

Venus 32671-12-03 18:29 G 13654234.20 13654234.27 13654234.34 0.3681 0.2871

Jupiter 32674-03-20 03:36 G 13655071.47 13655071.65 13655071.83 0.0507 0.0024

Saturn 32674-04-26 18:57 G 13655109.27 13655109.29 13655109.31 0.0267 0.0261

Saturn 32674-07-24 05:17 G 13655197.61 13655197.72 13655197.83 0.0266 0.0158

Saturn 32674-10-20 15:36 G 13655286.02 13655286.15 13655286.29 0.0266 0.0055

Saturn 32675-01-17 02:09 G 13655374.46 13655374.59 13655374.73 0.0265 0.0049

Saturn 32675-04-15 12:43 G 13655462.92 13655463.03 13655463.14 0.0264 0.0153

Saturn 32675-07-12 23:17 G 13655551.45 13655551.47 13655551.50 0.0264 0.0258

Uranus 32675-09-01 02:24 G 13655601.53 13655601.60 13655601.68 0.0134 0.0121

Uranus 32675-11-28 08:38 G 13655689.75 13655689.86 13655690.00 0.0134 0.0098

Uranus 32676-02-24 15:07 G 13655777.99 13655778.13 13655778.29 0.0134 0.0074

Uranus 32676-05-22 21:36 G 13655866.24 13655866.40 13655866.57 0.0134 0.0050

Uranus 32676-08-19 04:05 G 13655954.49 13655954.67 13655954.85 0.0134 0.0027

Uranus 32676-11-15 10:19 G 13656042.75 13656042.93 13656043.11 0.0134 0.0004

Uranus 32677-02-11 16:33 G 13656131.01 13656131.19 13656131.37 0.0134 0.0019

Uranus 32677-05-10 22:33 G 13656219.28 13656219.44 13656219.62 0.0134 0.0042

Uranus 32677-08-07 04:48 G 13656307.55 13656307.70 13656307.86 0.0134 0.0065

Uranus 32677-11-03 10:48 G 13656395.82 13656395.95 13656396.09 0.0133 0.0087

Uranus 32678-01-30 16:48 G 13656484.11 13656484.20 13656484.31 0.0133 0.0110

Uranus 32678-04-28 22:48 G 13656572.43 13656572.45 13656572.48 0.0133 0.0132

Jupiter 32679-11-09 07:26 G 13657131.68 13657131.81 13657131.93 0.0519 0.0038

Moon 32680-05-03 01:41 G 13657307.47 13657307.57 13657307.68 0.2661 0.0781

Earth 32680-05-03 02:24 G 13657307.49 13657307.60 13657307.70 0.2657 0.0919 *

Jupiter 32686-01-06 00:43 G 13659381.37 13659381.53 13659381.70 0.0507 0.0225

Mars 32687-07-28 03:36 G 13659949.57 13659949.65 13659949.74 0.1826 0.1309

Saturn 32690-02-12 01:55 G 13660879.56 13660879.58 13660879.60 0.0296 0.0293

Saturn 32690-05-12 01:55 G 13660968.41 13660968.58 13660968.75 0.0296 0.0096

Saturn 32690-08-09 01:41 G 13661057.41 13661057.57 13661057.74 0.0297 0.0100

Earth 32690-10-31 00:43 G 13661140.38 13661140.53 13661140.69 0.2674 0.0319

Moon 32690-10-31 01:12 G 13661140.39 13661140.55 13661140.70 0.2680 0.0188 *

Saturn 32690-11-06 00:57 G 13661146.52 13661146.54 13661146.58 0.0298 0.0292

Jupiter 32691-08-28 11:17 G 13661441.85 13661441.97 13661442.10 0.0520 0.0184

Jupiter 32691-11-25 17:31 G 13661531.15 13661531.23 13661531.31 0.0517 0.0412

Moon 32693-05-05 19:41 G 13662058.27 13662058.32 13662058.38 0.2664 0.2273

Earth 32693-05-05 19:55 G 13662058.28 13662058.33 13662058.39 0.2657 0.2276 *

Mars 32696-02-22 20:24 G 13663081.21 13663081.35 13663081.49 0.1707 0.0732

Mars 32696-12-17 12:00 G 13663379.88 13663380.00 13663380.12 0.1834 0.0173

Jupiter 32697-10-24 22:05 G 13663691.32 13663691.42 13663691.52 0.0506 0.0425

Jupiter 32698-01-23 06:29 G 13663781.65 13663781.77 13663781.89 0.0508 0.0371

Moon 32700-04-29 19:26 G 13664608.22 13664608.31 13664608.40 0.2653 0.1516

Earth 32700-04-29 19:55 G 13664608.24 13664608.33 13664608.42 0.2657 0.1485 *

Pluto 32700-06-06 17:17 G 13664646.12 13664646.22 13664646.35 0.0075 0.0060

Pluto 32700-09-02 19:41 G 13664734.18 13664734.32 13664734.51 0.0075 0.0042

Pluto 32700-11-29 22:48 G 13664822.26 13664822.45 13664822.64 0.0074 0.0022

Pluto 32701-02-26 01:26 G 13664910.36 13664910.56 13664910.76 0.0074 0.0004

Pluto 32701-05-25 04:05 G 13664998.47 13664998.67 13664998.87 0.0074 0.0014

Pluto 32701-08-21 06:14 G 13665086.60 13665086.76 13665086.96 0.0074 0.0033

Pluto 32701-11-17 08:53 G 13665174.74 13665174.87 13665175.03 0.0074 0.0051

Pluto 32702-02-13 11:17 G 13665262.92 13665262.97 13665263.06 0.0074 0.0069

Jupiter 32703-06-17 15:50 G 13665752.06 13665752.16 13665752.26 0.0521 0.0326

Jupiter 32703-09-14 21:50 G 13665841.30 13665841.41 13665841.52 0.0518 0.0268

Earth 32703-11-04 07:41 G 13665891.78 13665891.82 13665891.86 0.2674 0.2573

Moon 32703-11-04 08:53 G 13665891.85 13665891.87 13665891.90 0.2679 0.2632 *

Saturn 32703-12-12 07:55 G 13665929.74 13665929.83 13665929.93 0.0266 0.0186

Saturn 32704-03-09 18:29 G 13666018.14 13666018.27 13666018.40 0.0265 0.0083

Saturn 32704-06-06 04:48 G 13666106.57 13666106.70 13666106.84 0.0265 0.0022

Saturn 32704-09-02 15:21 G 13666195.02 13666195.14 13666195.26 0.0264 0.0125

Saturn 32704-11-30 02:09 G 13666283.52 13666283.59 13666283.65 0.0264 0.0229

Mars 32705-07-15 22:33 G 13666511.29 13666511.44 13666511.59 0.1699 0.0612

Mars 32706-05-10 19:55 G 13666810.23 13666810.33 13666810.43 0.1842 0.1005

Jupiter 32709-11-12 03:50 G 13668091.49 13668091.66 13668091.83 0.0508 0.0170

Venus 32711-11-26 12:00 G 13668835.91 13668836.00 13668836.08 0.3683 0.2276

Moon 32713-05-02 12:57 G 13669358.93 13669359.04 13669359.15 0.2656 0.0317

Earth 32713-05-02 13:26 G 13669358.95 13669359.06 13669359.17 0.2657 0.0175 *

Jupiter 32715-04-05 20:24 G 13670062.29 13670062.35 13670062.40 0.0521 0.0467

Jupiter 32715-07-04 02:09 G 13670151.47 13670151.59 13670151.72 0.0519 0.0126

Venus 32715-11-27 09:07 G 13670297.76 13670297.88 13670297.99 0.3688 0.2054

Venus 32717-06-11 05:17 G 13670859.61 13670859.72 13670859.83 0.3682 0.0380

Uranus 32718-08-21 04:05 G 13671295.64 13671295.67 13671295.73 0.0144 0.0136

Uranus 32718-11-17 08:09 G 13671383.76 13671383.84 13671383.92 0.0144 0.0114

Uranus 32719-02-13 12:00 G 13671471.90 13671472.00 13671472.11 0.0145 0.0092

Uranus 32719-05-12 16:05 G 13671560.05 13671560.17 13671560.29 0.0145 0.0071

Uranus 32719-08-08 19:55 G 13671648.20 13671648.33 13671648.46 0.0145 0.0049

Saturn 32719-09-29 22:48 G 13671700.30 13671700.45 13671700.60 0.0296 0.0165

Uranus 32719-11-05 00:00 G 13671736.36 13671736.50 13671736.63 0.0145 0.0027

Saturn 32719-12-27 22:33 G 13671789.27 13671789.44 13671789.62 0.0296 0.0032

Uranus 32720-02-01 03:50 G 13671824.53 13671824.66 13671824.80 0.0145 0.0006

Saturn 32720-03-25 21:50 G 13671878.31 13671878.41 13671878.54 0.0297 0.0226

Uranus 32720-04-29 07:55 G 13671912.69 13671912.83 13671912.97 0.0145 0.0018

Uranus 32720-07-26 12:00 G 13672000.87 13672001.00 13672001.13 0.0145 0.0040

Uranus 32720-10-22 16:05 G 13672089.05 13672089.17 13672089.30 0.0145 0.0063

Uranus 32721-01-18 20:09 G 13672177.23 13672177.34 13672177.45 0.0145 0.0085

Uranus 32721-04-17 00:14 G 13672265.42 13672265.51 13672265.61 0.0145 0.0108

Venus 32721-06-12 10:33 G 13672321.82 13672321.94 13672322.07 0.3689 0.1477

Uranus 32721-07-14 04:19 G 13672353.63 13672353.68 13672353.75 0.0145 0.0131

Jupiter 32721-08-31 01:41 G 13672401.39 13672401.57 13672401.75 0.0507 0.0022

Venus 32722-12-25 22:48 G 13672883.35 13672883.45 13672883.55 0.3682 0.1578

Moon 32726-05-05 06:29 G 13674109.68 13674109.77 13674109.87 0.2662 0.1184

Earth 32726-05-05 07:12 G 13674109.70 13674109.80 13674109.89 0.2657 0.1196 *

Mars 32727-01-27 03:50 G 13674376.59 13674376.66 13674376.73 0.1826 0.1457

Jupiter 32727-04-22 06:00 G 13674461.63 13674461.75 13674461.88 0.0519 0.0033

Venus 32728-07-10 16:33 G 13674907.17 13674907.19 13674907.21 0.3681 0.3586

Moon 32733-04-28 07:26 G 13676659.78 13676659.81 13676659.84 0.2651 0.2508

Earth 32733-04-28 07:26 G 13676659.78 13676659.81 13676659.84 0.2657 0.2523 *

Saturn 32733-04-30 10:33 G 13676661.86 13676661.94 13676662.01 0.0267 0.0219

Jupiter 32733-06-18 23:02 G 13676711.30 13676711.46 13676711.63 0.0507 0.0219

Saturn 32733-07-27 20:53 G 13676750.25 13676750.37 13676750.49 0.0266 0.0116

Saturn 32733-10-24 07:26 G 13676838.67 13676838.81 13676838.94 0.0266 0.0014

Saturn 32734-01-20 17:45 G 13676927.12 13676927.24 13676927.37 0.0265 0.0093

Saturn 32734-04-19 04:33 G 13677015.60 13677015.69 13677015.78 0.0264 0.0197

Mars 32735-08-24 20:53 G 13677508.24 13677508.37 13677508.50 0.1707 0.0924

Mars 32736-06-18 12:00 G 13677806.88 13677807.00 13677807.11 0.1834 0.0308

Earth 32736-11-01 07:26 G 13677942.65 13677942.81 13677942.96 0.2674 0.0246

Moon 32736-11-01 08:09 G 13677942.69 13677942.84 13677942.99 0.2680 0.0270 *

Jupiter 32739-02-08 10:05 G 13678771.80 13678771.92 13678772.05 0.0519 0.0177

Moon 32739-05-08 00:43 G 13678860.49 13678860.53 13678860.56 0.2664 0.2506

Earth 32739-05-08 00:43 G 13678860.50 13678860.53 13678860.56 0.2657 0.2556 *

Jupiter 32739-05-08 16:05 G 13678861.10 13678861.17 13678861.25 0.0517 0.0418

Mars 32745-01-13 23:17 G 13680938.32 13680938.47 13680938.62 0.1699 0.0411

Jupiter 32745-04-06 20:09 G 13681021.25 13681021.34 13681021.45 0.0506 0.0420

Jupiter 32745-07-06 04:48 G 13681111.59 13681111.70 13681111.82 0.0508 0.0378

Mars 32745-11-08 19:55 G 13681237.23 13681237.33 13681237.44 0.1842 0.0864

Moon 32746-05-01 00:14 G 13681410.42 13681410.51 13681410.61 0.2653 0.1301

Earth 32746-05-01 00:43 G 13681410.44 13681410.53 13681410.63 0.2657 0.1212 *

Neptune 32747-01-20 15:50 G 13681675.15 13681675.16 13681675.18 0.0088 0.0087

Neptune 32747-04-18 17:02 G 13681763.17 13681763.21 13681763.28 0.0088 0.0081

Neptune 32747-07-15 18:29 G 13681851.21 13681851.27 13681851.35 0.0088 0.0073

Neptune 32747-10-11 19:55 G 13681939.25 13681939.33 13681939.43 0.0088 0.0066

Neptune 32748-01-07 21:07 G 13682027.30 13682027.38 13682027.49 0.0088 0.0060

Neptune 32748-04-04 22:48 G 13682115.34 13682115.45 13682115.56 0.0088 0.0052

Neptune 32748-07-02 00:14 G 13682203.39 13682203.51 13682203.63 0.0088 0.0045

Neptune 32748-09-28 01:26 G 13682291.45 13682291.56 13682291.69 0.0088 0.0038

Neptune 32748-12-25 02:53 G 13682379.50 13682379.62 13682379.75 0.0088 0.0030

Saturn 32749-02-15 22:19 G 13682432.32 13682432.43 13682432.57 0.0296 0.0212

Neptune 32749-03-23 04:19 G 13682467.55 13682467.68 13682467.82 0.0088 0.0023

Saturn 32749-05-15 22:33 G 13682521.26 13682521.44 13682521.62 0.0296 0.0015

Neptune 32749-06-19 05:45 G 13682555.61 13682555.74 13682555.88 0.0088 0.0016

Saturn 32749-08-12 22:05 G 13682610.28 13682610.42 13682610.56 0.0297 0.0180

Neptune 32749-09-15 07:12 G 13682643.67 13682643.80 13682643.94 0.0088 0.0009

Neptune 32749-12-12 08:38 G 13682731.72 13682731.86 13682732.00 0.0088 0.0001

Neptune 32750-03-10 10:05 G 13682819.78 13682819.92 13682820.06 0.0088 0.0006

Neptune 32750-06-06 11:31 G 13682907.84 13682907.98 13682908.11 0.0088 0.0013

Neptune 32750-09-02 12:57 G 13682995.91 13682996.04 13682996.17 0.0088 0.0021

Jupiter 32750-11-27 14:09 G 13683081.99 13683082.09 13683082.19 0.0521 0.0328

Neptune 32750-11-29 14:09 G 13683083.97 13683084.09 13683084.23 0.0088 0.0029

Jupiter 32751-02-24 20:09 G 13683171.23 13683171.34 13683171.45 0.0518 0.0266

Neptune 32751-02-25 15:36 G 13683172.03 13683172.15 13683172.28 0.0088 0.0036

Neptune 32751-05-24 17:17 G 13683260.10 13683260.22 13683260.34 0.0088 0.0043

Neptune 32751-08-20 18:29 G 13683348.17 13683348.27 13683348.39 0.0088 0.0050

Neptune 32751-11-16 20:09 G 13683436.24 13683436.34 13683436.44 0.0088 0.0057

Neptune 32752-02-12 21:21 G 13683524.31 13683524.39 13683524.49 0.0088 0.0065

Neptune 32752-05-10 22:48 G 13683612.38 13683612.45 13683612.54 0.0088 0.0073

Neptune 32752-08-07 00:29 G 13683700.47 13683700.52 13683700.58 0.0088 0.0080

Neptune 32752-11-03 01:41 G 13683788.57 13683788.57 13683788.60 0.0088 0.0087

Jupiter 32757-04-24 02:09 G 13685421.43 13685421.59 13685421.76 0.0508 0.0180

Moon 32759-05-03 17:45 G 13686161.13 13686161.24 13686161.35 0.2657 0.0133

Earth 32759-05-03 18:14 G 13686161.15 13686161.26 13686161.37 0.2657 0.0145 *

Uranus 32759-09-22 10:19 G 13686302.85 13686302.93 13686303.05 0.0134 0.0112

Uranus 32759-12-19 16:48 G 13686391.08 13686391.20 13686391.35 0.0134 0.0088

Uranus 32760-03-16 23:31 G 13686479.32 13686479.48 13686479.64 0.0134 0.0064

Uranus 32760-06-13 05:45 G 13686567.57 13686567.74 13686567.92 0.0134 0.0041

Uranus 32760-09-09 12:14 G 13686655.83 13686656.01 13686656.19 0.0134 0.0017

Uranus 32760-12-06 18:29 G 13686744.09 13686744.27 13686744.45 0.0134 0.0006

Uranus 32761-03-05 00:43 G 13686832.35 13686832.53 13686832.71 0.0134 0.0029

Uranus 32761-06-01 06:57 G 13686920.62 13686920.79 13686920.95 0.0134 0.0052

Uranus 32761-08-28 12:57 G 13687008.90 13687009.04 13687009.19 0.0134 0.0074

Uranus 32761-11-24 18:57 G 13687097.18 13687097.29 13687097.42 0.0134 0.0097

Uranus 32762-02-21 01:12 G 13687185.47 13687185.55 13687185.63 0.0133 0.0119

Jupiter 32762-09-15 18:29 G 13687392.22 13687392.27 13687392.32 0.0521 0.0473

Saturn 32762-09-17 13:26 G 13687394.01 13687394.06 13687394.12 0.0267 0.0244

Jupiter 32762-12-14 00:29 G 13687481.39 13687481.52 13687481.64 0.0519 0.0121

Saturn 32762-12-15 00:00 G 13687482.38 13687482.50 13687482.61 0.0266 0.0141

Venus 32762-12-17 16:48 G 13687485.16 13687485.20 13687485.23 0.3683 0.3475

Saturn 32763-03-13 10:19 G 13687570.80 13687570.93 13687571.07 0.0265 0.0037

Saturn 32763-06-09 20:53 G 13687659.24 13687659.37 13687659.50 0.0265 0.0067

Saturn 32763-09-06 07:26 G 13687747.71 13687747.81 13687747.92 0.0264 0.0171

Mars 32766-07-28 03:50 G 13688803.61 13688803.66 13688803.72 0.1826 0.1618

Venus 32768-07-02 09:50 G 13689508.81 13689508.91 13689509.01 0.3683 0.1614

Jupiter 32769-02-09 23:17 G 13689731.29 13689731.47 13689731.65 0.0507 0.0025

Moon 32769-10-30 06:14 G 13689993.68 13689993.76 13689993.85 0.2680 0.2214

Earth 32769-10-30 06:43 G 13689993.69 13689993.78 13689993.87 0.2674 0.2162 *

Moon 32772-05-05 11:17 G 13690911.88 13690911.97 13690912.07 0.2662 0.1342

Earth 32772-05-05 12:00 G 13690911.90 13690912.00 13690912.09 0.2657 0.1478 *

Venus 32772-07-03 09:21 G 13690970.75 13690970.89 13690971.02 0.3688 0.0847

Venus 32774-01-16 03:21 G 13691532.53 13691532.64 13691532.75 0.3682 0.0339

Jupiter 32774-10-02 04:48 G 13691791.57 13691791.70 13691791.83 0.0519 0.0023

Mars 32775-02-22 21:36 G 13691935.28 13691935.40 13691935.51 0.1707 0.1124

Mars 32775-12-18 12:00 G 13692233.88 13692234.00 13692234.11 0.1834 0.0448

Venus 32778-01-17 10:33 G 13692994.85 13692994.94 13692995.04 0.3689 0.2622

Saturn 32778-07-05 19:55 G 13693164.27 13693164.33 13693164.40 0.0295 0.0275

Saturn 32778-10-02 20:09 G 13693253.17 13693253.34 13693253.51 0.0296 0.0078

Saturn 32778-12-30 19:41 G 13693342.16 13693342.32 13693342.49 0.0296 0.0117

Moon 32779-04-29 12:00 G 13693461.94 13693462.00 13693462.06 0.2651 0.2238

Earth 32779-04-29 12:14 G 13693461.95 13693462.01 13693462.06 0.2657 0.2255 *

Venus 32779-08-01 20:53 G 13693556.28 13693556.37 13693556.45 0.3681 0.2281

Jupiter 32780-11-28 20:53 G 13694041.21 13694041.37 13694041.54 0.0507 0.0220

Earth 32782-11-02 13:55 G 13694744.94 13694745.08 13694745.23 0.2674 0.0805

Moon 32782-11-02 14:53 G 13694744.98 13694745.12 13694745.26 0.2680 0.0964 *

Mars 32784-07-14 23:45 G 13695365.33 13695365.49 13695365.64 0.1700 0.0224

Mars 32785-05-09 20:09 G 13695664.23 13695664.34 13695664.45 0.1842 0.0715

Jupiter 32786-07-21 08:53 G 13696101.75 13696101.87 13696101.99 0.0519 0.0173

Jupiter 32786-10-18 14:53 G 13696191.05 13696191.12 13696191.19 0.0517 0.0420

Moon 32792-05-01 05:02 G 13698212.61 13698212.71 13698212.81 0.2653 0.1002

Earth 32792-05-01 05:31 G 13698212.63 13698212.73 13698212.84 0.2657 0.0937 *

Saturn 32792-05-03 02:24 G 13698214.50 13698214.60 13698214.70 0.0267 0.0173

Saturn 32792-07-30 12:57 G 13698302.91 13698303.04 13698303.17 0.0266 0.0069

Jupiter 32792-09-16 18:00 G 13698351.16 13698351.25 13698351.35 0.0506 0.0422

Saturn 32792-10-26 23:31 G 13698391.34 13698391.48 13698391.61 0.0266 0.0036

Jupiter 32792-12-16 02:38 G 13698441.50 13698441.61 13698441.73 0.0509 0.0379

Saturn 32793-01-23 10:05 G 13698479.80 13698479.92 13698480.03 0.0265 0.0140

Saturn 32793-04-21 20:38 G 13698568.32 13698568.36 13698568.41 0.0264 0.0246

Mars 32793-12-05 01:55 G 13698795.53 13698795.58 13698795.64 0.1693 0.1558

Jupiter 32798-05-09 12:57 G 13700411.94 13700412.04 13700412.14 0.0520 0.0322

Jupiter 32798-08-06 18:43 G 13700501.17 13700501.28 13700501.40 0.0517 0.0270

Uranus 32802-09-10 12:43 G 13701996.96 13701997.03 13701997.10 0.0144 0.0125

Uranus 32802-12-07 16:33 G 13702085.10 13702085.19 13702085.28 0.0144 0.0103

Uranus 32803-03-05 20:24 G 13702173.24 13702173.35 13702173.46 0.0145 0.0082

Uranus 32803-06-02 00:14 G 13702261.39 13702261.51 13702261.64 0.0145 0.0061

Uranus 32803-08-29 04:19 G 13702349.55 13702349.68 13702349.81 0.0145 0.0038

Uranus 32803-11-25 08:24 G 13702437.71 13702437.85 13702437.98 0.0145 0.0017

Uranus 32804-02-21 12:14 G 13702525.88 13702526.01 13702526.15 0.0145 0.0007

Uranus 32804-05-19 16:19 G 13702614.05 13702614.18 13702614.32 0.0145 0.0028

Uranus 32804-08-15 20:24 G 13702702.22 13702702.35 13702702.48 0.0145 0.0051

Jupiter 32804-10-04 00:14 G 13702751.34 13702751.51 13702751.67 0.0508 0.0179

Uranus 32804-11-12 00:29 G 13702790.40 13702790.52 13702790.64 0.0145 0.0073

Uranus 32805-02-08 04:33 G 13702878.59 13702878.69 13702878.80 0.0145 0.0096

Moon 32805-05-03 22:33 G 13702963.33 13702963.44 13702963.55 0.2659 0.0295

Earth 32805-05-03 23:02 G 13702963.35 13702963.46 13702963.57 0.2657 0.0410 *

Uranus 32805-05-07 08:38 G 13702966.79 13702966.86 13702966.94 0.0145 0.0119

Uranus 32805-08-03 12:43 G 13703055.01 13703055.03 13703055.06 0.0145 0.0142

Mars 32806-01-26 03:50 G 13703230.63 13703230.66 13703230.69 0.1826 0.1747

Saturn 32808-02-19 20:24 G 13703985.19 13703985.35 13703985.52 0.0296 0.0120

Saturn 32808-05-18 20:09 G 13704074.17 13704074.34 13704074.52 0.0297 0.0077

Saturn 32808-08-15 19:26 G 13704163.25 13704163.31 13704163.39 0.0297 0.0270

Jupiter 32810-02-25 16:48 G 13704722.15 13704722.20 13704722.25 0.0521 0.0476

Jupiter 32810-05-25 22:33 G 13704811.32 13704811.44 13704811.57 0.0519 0.0116

Mars 32814-08-23 21:50 G 13706362.31 13706362.41 13706362.51 0.1707 0.1300

Mars 32815-06-18 12:00 G 13706660.89 13706661.00 13706661.12 0.1834 0.0603

Earth 32815-10-31 13:26 G 13706795.93 13706796.06 13706796.18 0.2674 0.1589

Moon 32815-10-31 13:26 G 13706795.94 13706796.06 13706796.18 0.2681 0.1637 *

Jupiter 32816-07-22 21:21 G 13707061.21 13707061.39 13707061.57 0.0507 0.0024

Moon 32818-05-06 16:19 G 13707714.09 13707714.18 13707714.26 0.2662 0.1747

Earth 32818-05-06 16:48 G 13707714.11 13707714.20 13707714.28 0.2657 0.1752 *

Venus 32819-07-24 14:38 G 13708158.04 13708158.11 13708158.17 0.3683 0.2829

Saturn 32821-09-20 05:45 G 13708946.65 13708946.74 13708946.83 0.0266 0.0195

Saturn 32821-12-17 16:19 G 13709035.05 13709035.18 13709035.30 0.0266 0.0092

Jupiter 32822-03-14 02:53 G 13709121.49 13709121.62 13709121.75 0.0519 0.0035

Saturn 32822-03-16 02:38 G 13709123.48 13709123.61 13709123.75 0.0265 0.0015

Saturn 32822-06-12 13:12 G 13709211.93 13709212.05 13709212.18 0.0265 0.0118

Saturn 32822-09-09 00:00 G 13709300.43 13709300.50 13709300.57 0.0264 0.0222

Venus 32823-07-25 07:26 G 13709619.75 13709619.81 13709619.87 0.3688 0.3287

Mars 32824-01-14 00:14 G 13709792.36 13709792.51 13709792.67 0.1700 0.0044

Mars 32824-11-07 20:09 G 13710091.23 13710091.34 13710091.45 0.1841 0.0562

Venus 32825-02-06 07:41 G 13710181.72 13710181.82 13710181.93 0.3683 0.0959

Moon 32825-04-29 16:33 G 13710264.13 13710264.19 13710264.26 0.2651 0.2056

Earth 32825-04-29 17:02 G 13710264.13 13710264.21 13710264.28 0.2657 0.1980 *

Jupiter 32828-05-10 18:14 G 13711371.10 13711371.26 13711371.42 0.0506 0.0228

Earth 32828-11-02 20:38 G 13711547.22 13711547.36 13711547.49 0.2674 0.1351

Moon 32828-11-02 21:36 G 13711547.27 13711547.40 13711547.53 0.2680 0.1441 *

Venus 32829-02-07 09:21 G 13711643.76 13711643.89 13711644.03 0.3688 0.0348

Venus 32830-08-23 01:12 G 13712205.44 13712205.55 13712205.66 0.3682 0.0991

Neptune 32831-06-29 11:31 G 13712515.92 13712515.98 13712516.06 0.0089 0.0082

Neptune 32831-09-25 14:53 G 13712604.02 13712604.12 13712604.24 0.0089 0.0072

Neptune 32831-12-22 18:00 G 13712692.14 13712692.25 13712692.41 0.0089 0.0062

Neptune 32832-03-19 21:50 G 13712780.26 13712780.41 13712780.56 0.0089 0.0051

Neptune 32832-06-16 00:57 G 13712868.38 13712868.54 13712868.71 0.0089 0.0041

Neptune 32832-09-12 04:19 G 13712956.51 13712956.68 13712956.86 0.0089 0.0031

Neptune 32832-12-09 07:41 G 13713044.64 13713044.82 13713045.01 0.0089 0.0021

Neptune 32833-03-07 11:02 G 13713132.78 13713132.96 13713133.15 0.0089 0.0010

Neptune 32833-06-03 14:24 G 13713220.91 13713221.10 13713221.28 0.0089 0.0001

Mars 32833-06-05 02:24 G 13713222.51 13713222.60 13713222.70 0.1693 0.1369

Neptune 32833-08-30 17:31 G 13713309.05 13713309.23 13713309.42 0.0089 0.0010

Neptune 32833-11-26 20:38 G 13713397.19 13713397.36 13713397.55 0.0089 0.0020

Jupiter 32833-12-31 07:12 G 13713431.68 13713431.80 13713431.92 0.0520 0.0175

Neptune 32834-02-23 00:00 G 13713485.33 13713485.50 13713485.68 0.0089 0.0030

Jupiter 32834-03-30 13:12 G 13713520.98 13713521.05 13713521.13 0.0517 0.0420

Mars 32834-03-31 04:19 G 13713521.64 13713521.68 13713521.72 0.1850 0.1738

Neptune 32834-05-22 03:07 G 13713573.47 13713573.63 13713573.80 0.0089 0.0040

Neptune 32834-08-18 06:14 G 13713661.62 13713661.76 13713661.92 0.0089 0.0050

Neptune 32834-11-14 09:21 G 13713749.77 13713749.89 13713750.04 0.0089 0.0060

Neptune 32835-02-10 12:29 G 13713837.93 13713838.02 13713838.15 0.0089 0.0070

Neptune 32835-05-09 15:36 G 13713926.09 13713926.15 13713926.25 0.0089 0.0080

Venus 32836-03-07 18:43 G 13714229.22 13714229.28 13714229.35 0.3681 0.2977

Saturn 32837-07-08 18:57 G 13714717.15 13714717.29 13714717.44 0.0295 0.0176

Saturn 32837-10-05 18:57 G 13714806.11 13714806.29 13714806.46 0.0296 0.0021

Saturn 32838-01-02 18:14 G 13714895.14 13714895.26 13714895.39 0.0297 0.0214

Moon 32838-05-02 09:50 G 13715014.80 13715014.91 13715015.01 0.2654 0.0729

Earth 32838-05-02 10:19 G 13715014.83 13715014.93 13715015.04 0.2657 0.0663 *

Jupiter 32840-02-27 15:36 G 13715681.05 13715681.15 13715681.24 0.0506 0.0427

Jupiter 32840-05-28 00:14 G 13715771.39 13715771.51 13715771.63 0.0508 0.0372

Uranus 32843-07-16 12:14 G 13716915.96 13716916.01 13716916.09 0.0134 0.0125

Uranus 32843-10-12 18:57 G 13717004.18 13717004.29 13717004.42 0.0134 0.0101

Uranus 32844-01-09 01:26 G 13717092.42 13717092.56 13717092.72 0.0134 0.0077

Uranus 32844-04-06 07:55 G 13717180.67 13717180.83 13717181.00 0.0134 0.0054

Uranus 32844-07-03 14:24 G 13717268.92 13717269.10 13717269.28 0.0134 0.0030

Uranus 32844-09-29 20:38 G 13717357.18 13717357.36 13717357.54 0.0134 0.0007

Uranus 32844-12-27 02:53 G 13717445.44 13717445.62 13717445.80 0.0134 0.0017

Uranus 32845-03-25 09:07 G 13717533.71 13717533.88 13717534.06 0.0134 0.0039

Uranus 32845-06-21 15:07 G 13717621.98 13717622.13 13717622.30 0.0134 0.0062

Uranus 32845-09-17 21:21 G 13717710.25 13717710.39 13717710.53 0.0134 0.0085

Jupiter 32845-10-19 11:17 G 13717741.87 13717741.97 13717742.07 0.0520 0.0323

Uranus 32845-12-15 03:07 G 13717798.54 13717798.63 13717798.75 0.0134 0.0108

Jupiter 32846-01-16 17:17 G 13717831.11 13717831.22 13717831.33 0.0518 0.0269

Uranus 32846-03-13 09:07 G 13717886.86 13717886.88 13717886.94 0.0133 0.0130

Saturn 32851-02-07 08:24 G 13719678.78 13719678.85 13719678.92 0.0267 0.0227

Moon 32851-05-05 03:07 G 13719765.53 13719765.63 13719765.74 0.2660 0.0601

Earth 32851-05-05 03:50 G 13719765.56 13719765.66 13719765.77 0.2657 0.0679 *

Saturn 32851-05-06 18:57 G 13719767.17 13719767.29 13719767.41 0.0267 0.0123

Saturn 32851-08-03 05:17 G 13719855.59 13719855.72 13719855.86 0.0266 0.0019

Saturn 32851-10-30 15:50 G 13719944.03 13719944.16 13719944.29 0.0265 0.0087

Saturn 32852-01-27 02:24 G 13720032.51 13720032.60 13720032.70 0.0265 0.0192

Jupiter 32852-03-15 21:36 G 13720081.23 13720081.40 13720081.57 0.0508 0.0172

Mars 32854-02-21 22:33 G 13720789.37 13720789.44 13720789.51 0.1707 0.1504

Mars 32854-12-17 12:00 G 13721087.89 13721088.00 13721088.11 0.1833 0.0744

Jupiter 32857-08-07 15:21 G 13722052.09 13722052.14 13722052.20 0.0521 0.0472

Jupiter 32857-11-04 21:07 G 13722141.26 13722141.38 13722141.51 0.0518 0.0119

Pluto 32860-03-26 16:33 G 13723014.18 13723014.19 13723014.22 0.0069 0.0068

Pluto 32860-06-22 17:02 G 13723102.16 13723102.21 13723102.29 0.0070 0.0059

Pluto 32860-09-18 17:45 G 13723190.15 13723190.24 13723190.34 0.0070 0.0049

Pluto 32860-12-15 18:14 G 13723278.16 13723278.26 13723278.38 0.0070 0.0039

Pluto 32861-03-13 18:43 G 13723366.17 13723366.28 13723366.41 0.0070 0.0029

Pluto 32861-06-09 19:26 G 13723454.19 13723454.31 13723454.44 0.0070 0.0019

Pluto 32861-09-05 20:09 G 13723542.21 13723542.34 13723542.47 0.0070 0.0009

Earth 32861-10-31 20:09 G 13723598.19 13723598.34 13723598.48 0.2674 0.1020

Moon 32861-10-31 20:24 G 13723598.20 13723598.35 13723598.50 0.2681 0.0907 *

Pluto 32861-12-02 20:38 G 13723630.23 13723630.36 13723630.49 0.0070 0.0002

Pluto 32862-02-28 21:07 G 13723718.26 13723718.38 13723718.51 0.0070 0.0012

Pluto 32862-05-27 21:36 G 13723806.28 13723806.40 13723806.53 0.0070 0.0022

Pluto 32862-08-23 22:05 G 13723894.32 13723894.42 13723894.55 0.0071 0.0033

Pluto 32862-11-19 22:48 G 13723982.35 13723982.45 13723982.56 0.0071 0.0043

Pluto 32863-02-15 23:17 G 13724070.40 13724070.47 13724070.56 0.0071 0.0054

Pluto 32863-05-14 23:45 G 13724158.45 13724158.49 13724158.56 0.0071 0.0064

Mars 32863-07-15 00:43 G 13724219.38 13724219.53 13724219.69 0.1700 0.0168

Jupiter 32864-01-02 18:43 G 13724391.10 13724391.28 13724391.46 0.0507 0.0032

Moon 32864-05-06 21:07 G 13724516.31 13724516.38 13724516.46 0.2663 0.1959

Earth 32864-05-06 21:36 G 13724516.33 13724516.40 13724516.47 0.2657 0.2034 *

Mars 32864-05-08 20:09 G 13724518.22 13724518.34 13724518.45 0.1842 0.0428

Saturn 32866-11-25 19:26 G 13725449.19 13725449.31 13725449.44 0.0295 0.0215

Saturn 32867-02-22 19:41 G 13725538.14 13725538.32 13725538.49 0.0296 0.0019

Saturn 32867-05-22 18:57 G 13725627.16 13725627.29 13725627.44 0.0297 0.0177

Jupiter 32869-08-24 00:57 G 13726451.41 13726451.54 13726451.67 0.0519 0.0039

Moon 32871-04-30 21:21 G 13727066.31 13727066.39 13727066.47 0.2651 0.1695

Earth 32871-04-30 21:36 G 13727066.32 13727066.40 13727066.49 0.2657 0.1711 *

Mars 32872-12-04 03:07 G 13727649.51 13727649.63 13727649.74 0.1693 0.1187

Mars 32873-09-29 04:19 G 13727948.63 13727948.68 13727948.74 0.1849 0.1580

Earth 32874-11-04 03:07 G 13728349.53 13728349.63 13728349.74 0.2674 0.1912

Moon 32874-11-04 04:19 G 13728349.58 13728349.68 13728349.78 0.2679 0.2044 *

Jupiter 32875-10-21 16:05 G 13728701.01 13728701.17 13728701.33 0.0506 0.0230

Venus 32876-02-28 12:29 G 13728830.93 13728831.02 13728831.10 0.3683 0.2182

Venus 32880-02-29 07:55 G 13730292.71 13730292.83 13730292.94 0.3688 0.2053

Saturn 32880-06-26 12:00 G 13730410.96 13730411.00 13730411.05 0.0267 0.0247

Saturn 32880-09-22 22:19 G 13730499.32 13730499.43 13730499.55 0.0266 0.0143

Saturn 32880-12-20 08:53 G 13730587.74 13730587.87 13730588.01 0.0266 0.0039

Saturn 32881-03-18 19:26 G 13730676.18 13730676.31 13730676.44 0.0265 0.0066

Jupiter 32881-06-12 05:02 G 13730761.59 13730761.71 13730761.83 0.0520 0.0187

Saturn 32881-06-15 06:00 G 13730764.65 13730764.75 13730764.86 0.0265 0.0171

Jupiter 32881-09-09 11:02 G 13730850.88 13730850.96 13730851.04 0.0518 0.0408

Venus 32881-09-13 05:45 G 13730854.63 13730854.74 13730854.85 0.3682 0.0288

Moon 32884-05-02 14:38 G 13731817.00 13731817.11 13731817.21 0.2656 0.0521

Earth 32884-05-02 15:07 G 13731817.02 13731817.13 13731817.24 0.2657 0.0386 *

Venus 32885-09-14 09:21 G 13732316.77 13732316.89 13732317.02 0.3689 0.1502

Uranus 32886-07-04 16:48 G 13732610.16 13732610.20 13732610.24 0.0144 0.0137

Uranus 32886-09-30 20:24 G 13732698.28 13732698.35 13732698.44 0.0144 0.0117

Uranus 32886-12-28 00:29 G 13732786.42 13732786.52 13732786.62 0.0144 0.0095

Uranus 32887-03-26 04:19 G 13732874.57 13732874.68 13732874.80 0.0145 0.0074

Venus 32887-03-29 23:02 G 13732878.37 13732878.46 13732878.56 0.3682 0.1681

Uranus 32887-06-22 08:24 G 13732962.72 13732962.85 13732962.98 0.0145 0.0052

Jupiter 32887-08-09 12:29 G 13733010.94 13733011.02 13733011.11 0.0506 0.0438

Uranus 32887-09-18 12:14 G 13733050.88 13733051.01 13733051.15 0.0145 0.0030

Jupiter 32887-11-07 21:07 G 13733101.26 13733101.38 13733101.51 0.0508 0.0360

Uranus 32887-12-15 16:19 G 13733139.04 13733139.18 13733139.32 0.0145 0.0008

Uranus 32888-03-12 20:24 G 13733227.21 13733227.35 13733227.48 0.0145 0.0015

Uranus 32888-06-09 00:29 G 13733315.38 13733315.52 13733315.65 0.0145 0.0037

Uranus 32888-09-05 04:19 G 13733403.56 13733403.68 13733403.81 0.0145 0.0060

Uranus 32888-12-02 08:24 G 13733491.74 13733491.85 13733491.97 0.0145 0.0082

Uranus 32889-02-28 12:29 G 13733579.93 13733580.02 13733580.12 0.0145 0.0105

Uranus 32889-05-27 16:33 G 13733668.14 13733668.19 13733668.26 0.0145 0.0128

Jupiter 32893-03-31 09:21 G 13735071.80 13735071.89 13735071.99 0.0521 0.0331

Jupiter 32893-06-28 15:21 G 13735161.03 13735161.14 13735161.25 0.0518 0.0263

Mars 32893-08-22 23:02 G 13735216.45 13735216.46 13735216.48 0.1708 0.1695

Mars 32894-06-17 12:00 G 13735514.90 13735515.00 13735515.11 0.1833 0.0890

Saturn 32896-04-13 18:29 G 13736181.20 13736181.27 13736181.35 0.0295 0.0267

Saturn 32896-07-11 18:43 G 13736270.10 13736270.28 13736270.45 0.0296 0.0070

Saturn 32896-10-08 18:14 G 13736359.10 13736359.26 13736359.43 0.0296 0.0126

Moon 32897-05-05 07:55 G 13736567.73 13736567.83 13736567.94 0.2660 0.0869

Earth 32897-05-05 08:38 G 13736567.76 13736567.86 13736567.96 0.2657 0.0958 *

Jupiter 32899-08-26 18:43 G 13737411.11 13737411.28 13737411.45 0.0508 0.0164

Mars 32903-01-14 01:26 G 13738646.41 13738646.56 13738646.71 0.1700 0.0354

Mars 32903-11-08 20:09 G 13738945.22 13738945.34 13738945.46 0.1841 0.0274

Jupiter 32905-01-18 13:41 G 13739382.03 13739382.07 13739382.12 0.0521 0.0476

Jupiter 32905-04-17 19:26 G 13739471.19 13739471.31 13739471.44 0.0518 0.0116

Earth 32907-11-03 02:38 G 13740400.46 13740400.61 13740400.77 0.2674 0.0460

Moon 32907-11-03 03:07 G 13740400.48 13740400.63 13740400.78 0.2681 0.0508 *

Saturn 32910-02-11 01:12 G 13741231.45 13741231.55 13741231.65 0.0267 0.0173

Moon 32910-05-09 02:09 G 13741318.54 13741318.59 13741318.64 0.2664 0.2318

Earth 32910-05-09 02:24 G 13741318.54 13741318.60 13741318.65 0.2657 0.2311 *

Saturn 32910-05-10 11:45 G 13741319.86 13741319.99 13741320.12 0.0266 0.0068

Saturn 32910-08-06 22:05 G 13741408.29 13741408.42 13741408.56 0.0266 0.0038

Saturn 32910-11-03 08:38 G 13741496.75 13741496.86 13741496.98 0.0265 0.0143

Saturn 32911-01-30 19:26 G 13741585.27 13741585.31 13741585.36 0.0265 0.0248

Jupiter 32911-06-15 15:50 G 13741720.98 13741721.16 13741721.34 0.0507 0.0041

Neptune 32911-10-18 14:53 G 13741846.10 13741846.12 13741846.15 0.0088 0.0087

Neptune 32912-01-14 16:19 G 13741934.13 13741934.18 13741934.24 0.0088 0.0080

Neptune 32912-04-11 17:31 G 13742022.16 13742022.23 13742022.31 0.0088 0.0073

Mars 32912-06-05 03:36 G 13742076.53 13742076.65 13742076.78 0.1693 0.0983

Neptune 32912-07-08 18:57 G 13742110.21 13742110.29 13742110.38 0.0088 0.0066

Neptune 32912-10-04 20:09 G 13742198.25 13742198.34 13742198.45 0.0088 0.0059

Neptune 32912-12-31 21:36 G 13742286.30 13742286.40 13742286.52 0.0088 0.0051

Neptune 32913-03-29 23:02 G 13742374.35 13742374.46 13742374.58 0.0088 0.0044

Mars 32913-03-31 04:19 G 13742375.61 13742375.68 13742375.75 0.1849 0.1451

Neptune 32913-06-26 00:29 G 13742462.40 13742462.52 13742462.65 0.0088 0.0037

Neptune 32913-09-22 01:55 G 13742550.45 13742550.58 13742550.71 0.0088 0.0030

Neptune 32913-12-19 03:21 G 13742638.51 13742638.64 13742638.77 0.0088 0.0022

Neptune 32914-03-17 04:48 G 13742726.56 13742726.70 13742726.83 0.0088 0.0015

Neptune 32914-06-13 06:14 G 13742814.62 13742814.76 13742814.89 0.0088 0.0008

Neptune 32914-09-09 07:41 G 13742902.68 13742902.82 13742902.95 0.0088 0.0002

Neptune 32914-12-06 08:53 G 13742990.74 13742990.87 13742991.01 0.0088 0.0008

Neptune 32915-03-04 10:19 G 13743078.80 13743078.93 13743079.07 0.0088 0.0014

Neptune 32915-05-31 11:45 G 13743166.86 13743166.99 13743167.13 0.0088 0.0021

Neptune 32915-08-27 13:12 G 13743254.92 13743255.05 13743255.18 0.0088 0.0029

Neptune 32915-11-23 14:38 G 13743342.99 13743343.11 13743343.24 0.0088 0.0036

Neptune 32916-02-19 16:05 G 13743431.06 13743431.17 13743431.29 0.0088 0.0043

Neptune 32916-05-17 17:17 G 13743519.12 13743519.22 13743519.35 0.0088 0.0051

Neptune 32916-08-13 18:57 G 13743607.19 13743607.29 13743607.40 0.0088 0.0058

Neptune 32916-11-09 20:24 G 13743695.26 13743695.35 13743695.45 0.0088 0.0066

Jupiter 32917-02-03 23:31 G 13743781.35 13743781.48 13743781.61 0.0519 0.0036

Neptune 32917-02-05 21:36 G 13743783.34 13743783.40 13743783.49 0.0088 0.0074

Moon 32917-05-02 02:09 G 13743868.50 13743868.59 13743868.68 0.2651 0.1541

Earth 32917-05-02 02:24 G 13743868.51 13743868.60 13743868.70 0.2657 0.1438 *

Neptune 32917-05-04 23:17 G 13743871.42 13743871.47 13743871.53 0.0088 0.0080

Neptune 32917-08-01 00:43 G 13743959.53 13743959.53 13743959.55 0.0088 0.0088

Earth 32920-11-05 09:50 G 13745151.85 13745151.91 13745151.97 0.2674 0.2457

Jupiter 32923-04-03 13:12 G 13746030.89 13746031.05 13746031.20 0.0507 0.0242

Saturn 32925-11-29 19:26 G 13747002.14 13747002.31 13747002.48 0.0296 0.0107

Saturn 32926-02-26 19:12 G 13747091.13 13747091.30 13747091.47 0.0296 0.0089

Saturn 32926-05-26 18:29 G 13747180.22 13747180.27 13747180.33 0.0297 0.0282

Venus 32927-03-22 17:02 G 13747480.17 13747480.21 13747480.25 0.3683 0.3387

Uranus 32927-08-06 21:07 G 13747617.28 13747617.38 13747617.47 0.0134 0.0114

Uranus 32927-11-03 03:21 G 13747705.51 13747705.64 13747705.78 0.0134 0.0091

Uranus 32928-01-30 09:50 G 13747793.76 13747793.91 13747794.08 0.0134 0.0067

Uranus 32928-04-27 16:19 G 13747882.01 13747882.18 13747882.36 0.0134 0.0043

Uranus 32928-07-24 22:48 G 13747970.27 13747970.45 13747970.63 0.0134 0.0020

Uranus 32928-10-21 05:02 G 13748058.53 13748058.71 13748058.89 0.0134 0.0004

Jupiter 32928-11-23 03:07 G 13748091.51 13748091.63 13748091.75 0.0520 0.0195

Uranus 32929-01-17 11:17 G 13748146.79 13748146.97 13748147.15 0.0134 0.0027

Jupiter 32929-02-20 09:07 G 13748180.80 13748180.88 13748180.96 0.0517 0.0400

Uranus 32929-04-15 17:17 G 13748235.06 13748235.22 13748235.40 0.0134 0.0050

Uranus 32929-07-12 23:31 G 13748323.33 13748323.48 13748323.64 0.0134 0.0072

Uranus 32929-10-09 05:31 G 13748411.61 13748411.73 13748411.87 0.0134 0.0095

Uranus 32930-01-05 11:45 G 13748499.91 13748499.99 13748500.08 0.0133 0.0117

Moon 32930-05-04 19:12 G 13748619.19 13748619.30 13748619.41 0.2657 0.0161

Earth 32930-05-04 19:55 G 13748619.22 13748619.33 13748619.44 0.2657 0.0115 *

Venus 32932-10-05 10:19 G 13749503.83 13749503.93 13749504.03 0.3683 0.1521

Mars 32933-12-17 12:14 G 13749941.91 13749942.01 13749942.11 0.1833 0.1049

Jupiter 32935-01-20 10:19 G 13750340.84 13750340.93 13750341.02 0.0506 0.0442

Jupiter 32935-04-20 18:57 G 13750431.17 13750431.29 13750431.42 0.0508 0.0357

Venus 32936-10-06 07:55 G 13750965.70 13750965.83 13750965.96 0.3688 0.0852

Venus 32938-04-21 03:36 G 13751527.54 13751527.65 13751527.76 0.3682 0.0400

Saturn 32939-07-01 04:48 G 13751963.62 13751963.70 13751963.80 0.0267 0.0192

Saturn 32939-09-27 15:21 G 13752052.02 13752052.14 13752052.27 0.0266 0.0087

Saturn 32939-12-25 01:55 G 13752140.44 13752140.58 13752140.71 0.0265 0.0018

Saturn 32940-03-22 12:29 G 13752228.90 13752229.02 13752229.14 0.0265 0.0123

Saturn 32940-06-18 23:02 G 13752317.40 13752317.46 13752317.53 0.0264 0.0228

Jupiter 32940-09-11 07:12 G 13752401.71 13752401.80 13752401.90 0.0521 0.0344

Jupiter 32940-12-09 13:12 G 13752490.94 13752491.05 13752491.16 0.0518 0.0249

Venus 32942-04-22 09:21 G 13752989.80 13752989.89 13752989.99 0.3689 0.2664

Mars 32942-07-15 01:55 G 13753073.43 13753073.58 13753073.73 0.1701 0.0543

Moon 32943-05-07 12:57 G 13753369.94 13753370.04 13753370.14 0.2660 0.1139

Earth 32943-05-07 13:26 G 13753369.96 13753370.06 13753370.16 0.2657 0.1234 *

Mars 32943-05-09 20:09 G 13753372.22 13753372.34 13753372.46 0.1841 0.0137

Venus 32943-11-04 21:07 G 13753551.30 13753551.38 13753551.46 0.3681 0.2378

Pluto 32946-05-04 06:14 G 13754462.65 13754462.76 13754462.89 0.0075 0.0059

Pluto 32946-07-31 08:38 G 13754550.72 13754550.86 13754551.05 0.0075 0.0041

Pluto 32946-10-27 11:45 G 13754638.80 13754638.99 13754639.18 0.0074 0.0022

Pluto 32947-01-23 14:24 G 13754726.90 13754727.10 13754727.30 0.0074 0.0003

Jupiter 32947-02-06 15:50 G 13754740.99 13754741.16 13754741.33 0.0507 0.0151

Pluto 32947-04-21 17:02 G 13754815.02 13754815.21 13754815.41 0.0074 0.0015

Pluto 32947-07-18 19:12 G 13754903.14 13754903.30 13754903.50 0.0074 0.0034

Pluto 32947-10-14 21:50 G 13754991.29 13754991.41 13754991.57 0.0074 0.0052

Pluto 32948-01-11 00:29 G 13755079.47 13755079.52 13755079.60 0.0074 0.0070

Moon 32950-04-30 13:41 G 13755920.04 13755920.07 13755920.10 0.2650 0.2520

Earth 32950-04-30 13:55 G 13755920.04 13755920.08 13755920.11 0.2657 0.2478 *

Mars 32951-12-05 04:19 G 13756503.54 13756503.68 13756503.82 0.1693 0.0786

Jupiter 32952-06-30 11:31 G 13756711.94 13756711.98 13756712.03 0.0522 0.0489

Jupiter 32952-09-27 17:31 G 13756801.10 13756801.23 13756801.35 0.0519 0.0105

Mars 32952-09-29 04:19 G 13756802.60 13756802.68 13756802.77 0.1849 0.1298

Earth 32953-11-03 09:21 G 13757202.73 13757202.89 13757203.05 0.2674 0.0103

Moon 32953-11-03 09:50 G 13757202.76 13757202.91 13757203.06 0.2681 0.0267 *

Saturn 32955-04-18 18:57 G 13757734.14 13757734.29 13757734.45 0.0295 0.0155

Saturn 32955-07-16 18:57 G 13757823.11 13757823.29 13757823.46 0.0296 0.0041

Saturn 32955-10-13 18:14 G 13757912.16 13757912.26 13757912.37 0.0297 0.0235

Moon 32956-05-09 06:57 G 13758120.77 13758120.79 13758120.82 0.2664 0.2588

Earth 32956-05-09 07:12 G 13758120.78 13758120.80 13758120.82 0.2657 0.2594 *

Jupiter 32958-11-25 13:12 G 13759050.87 13759051.05 13759051.23 0.0507 0.0050

Moon 32963-05-03 06:43 G 13760670.68 13760670.78 13760670.88 0.2652 0.1171

Earth 32963-05-03 07:12 G 13760670.70 13760670.80 13760670.90 0.2657 0.1166 *

Jupiter 32964-07-16 21:50 G 13761111.28 13761111.41 13761111.53 0.0519 0.0045

Saturn 32968-11-17 07:55 G 13762695.75 13762695.83 13762695.90 0.0267 0.0220

Saturn 32969-02-13 18:14 G 13762784.14 13762784.26 13762784.38 0.0266 0.0116

Saturn 32969-05-13 04:33 G 13762872.56 13762872.69 13762872.83 0.0266 0.0015

Saturn 32969-08-09 15:07 G 13762961.01 13762961.13 13762961.26 0.0265 0.0094

Saturn 32969-11-06 01:55 G 13763049.49 13763049.58 13763049.67 0.0265 0.0199

Uranus 32970-07-26 00:29 G 13763311.48 13763311.52 13763311.59 0.0144 0.0130

Jupiter 32970-09-13 09:50 G 13763360.76 13763360.91 13763361.07 0.0507 0.0256

Uranus 32970-10-22 04:33 G 13763399.60 13763399.69 13763399.78 0.0144 0.0108

Uranus 32971-01-18 08:24 G 13763487.75 13763487.85 13763487.96 0.0144 0.0086

Uranus 32971-04-16 12:29 G 13763575.90 13763576.02 13763576.14 0.0145 0.0065

Uranus 32971-07-13 16:19 G 13763664.05 13763664.18 13763664.31 0.0145 0.0043

Uranus 32971-10-09 20:09 G 13763752.21 13763752.34 13763752.48 0.0145 0.0022

Uranus 32972-01-06 00:14 G 13763840.37 13763840.51 13763840.65 0.0145 0.0002

Uranus 32972-04-03 04:19 G 13763928.54 13763928.68 13763928.81 0.0145 0.0024

Uranus 32972-06-30 08:24 G 13764016.72 13764016.85 13764016.98 0.0145 0.0046

Uranus 32972-09-26 12:14 G 13764104.90 13764105.01 13764105.14 0.0145 0.0069

Uranus 32972-12-23 16:33 G 13764193.08 13764193.19 13764193.30 0.0145 0.0091

Uranus 32973-03-21 20:38 G 13764281.28 13764281.36 13764281.44 0.0145 0.0114

Mars 32973-06-17 12:14 G 13764368.92 13764369.01 13764369.10 0.1833 0.1187

Uranus 32973-06-18 00:43 G 13764369.49 13764369.53 13764369.58 0.0145 0.0137

Moon 32976-05-05 00:00 G 13765421.39 13765421.50 13765421.61 0.2657 0.0009

Earth 32976-05-05 00:43 G 13765421.42 13765421.53 13765421.64 0.2657 0.0167 *

Jupiter 32976-05-05 01:55 G 13765421.46 13765421.58 13765421.70 0.0520 0.0191 *

Jupiter 32976-08-02 07:41 G 13765510.74 13765510.82 13765510.90 0.0517 0.0403

Mars 32982-01-13 02:38 G 13767500.47 13767500.61 13767500.75 0.1701 0.0742

Jupiter 32982-07-02 07:12 G 13767670.72 13767670.80 13767670.88 0.0506 0.0456

Jupiter 32982-09-30 16:05 G 13767761.04 13767761.17 13767761.30 0.0508 0.0345

Mars 32982-11-07 20:24 G 13767799.22 13767799.35 13767799.47 0.1841 0.0074

Venus 32983-10-27 14:53 G 13768153.05 13768153.12 13768153.19 0.3683 0.2738

Saturn 32984-09-04 18:57 G 13768466.16 13768466.29 13768466.43 0.0295 0.0198

Saturn 32984-12-02 19:12 G 13768555.12 13768555.30 13768555.48 0.0296 0.0002

Saturn 32985-03-01 18:43 G 13768644.15 13768644.28 13768644.42 0.0297 0.0195

Moon 32986-11-01 08:24 G 13769253.77 13769253.85 13769253.93 0.2682 0.2256

Earth 32986-11-01 08:38 G 13769253.78 13769253.86 13769253.94 0.2674 0.2303 *

Venus 32987-10-28 06:14 G 13769614.70 13769614.76 13769614.81 0.3687 0.3315

Jupiter 32988-02-22 05:17 G 13769731.63 13769731.72 13769731.82 0.0521 0.0352

Jupiter 32988-05-21 11:17 G 13769820.85 13769820.97 13769821.08 0.0518 0.0242

Moon 32989-05-07 17:45 G 13770172.15 13770172.24 13770172.33 0.2662 0.1488

Earth 32989-05-07 18:14 G 13770172.17 13770172.26 13770172.35 0.2657 0.1509 *

Venus 32989-05-12 08:09 G 13770176.73 13770176.84 13770176.95 0.3683 0.0849

Mars 32991-06-05 04:48 G 13770930.55 13770930.70 13770930.84 0.1693 0.0612

Mars 32992-03-30 04:33 G 13771229.60 13771229.69 13771229.78 0.1849 0.1144

Venus 32993-05-13 08:09 G 13771638.70 13771638.84 13771638.97 0.3688 0.0357

Jupiter 32994-07-19 13:26 G 13772070.89 13772071.06 13772071.24 0.0507 0.0149

Venus 32994-11-26 01:41 G 13772200.46 13772200.57 13772200.67 0.3682 0.1102

Neptune 32996-03-26 08:24 G 13772686.80 13772686.85 13772686.94 0.0089 0.0082

Moon 32996-04-30 18:29 G 13772722.21 13772722.27 13772722.33 0.2650 0.2177

Earth 32996-04-30 18:43 G 13772722.22 13772722.28 13772722.33 0.2657 0.2207 *

Neptune 32996-06-22 11:45 G 13772774.90 13772774.99 13772775.12 0.0089 0.0072

Neptune 32996-09-18 15:21 G 13772863.01 13772863.14 13772863.28 0.0089 0.0061

Neptune 32996-12-15 18:43 G 13772951.13 13772951.28 13772951.44 0.0089 0.0051

Neptune 32997-03-13 21:50 G 13773039.26 13773039.41 13773039.59 0.0089 0.0041

Neptune 32997-06-10 01:12 G 13773127.39 13773127.55 13773127.74 0.0089 0.0031

Neptune 32997-09-06 04:48 G 13773215.52 13773215.70 13773215.88 0.0089 0.0020

Neptune 32997-12-03 08:09 G 13773303.65 13773303.84 13773304.03 0.0089 0.0010

Neptune 32998-03-01 11:31 G 13773391.79 13773391.98 13773392.16 0.0089 0.0001

Saturn 32998-04-06 11:31 G 13773427.93 13773427.98 13773428.04 0.0267 0.0239

Neptune 32998-05-28 14:38 G 13773479.93 13773480.11 13773480.30 0.0089 0.0010

Saturn 32998-07-03 22:05 G 13773516.30 13773516.42 13773516.53 0.0266 0.0135

Neptune 32998-08-24 18:00 G 13773568.07 13773568.25 13773568.43 0.0089 0.0020

Saturn 32998-09-30 08:24 G 13773604.72 13773604.85 13773604.99 0.0266 0.0030

Neptune 32998-11-20 21:07 G 13773656.21 13773656.38 13773656.56 0.0089 0.0030

Saturn 32998-12-27 18:57 G 13773693.16 13773693.29 13773693.42 0.0265 0.0075

Neptune 32999-02-17 00:29 G 13773744.35 13773744.52 13773744.68 0.0089 0.0040

Saturn 32999-03-26 05:31 G 13773781.63 13773781.73 13773781.83 0.0265 0.0180

Neptune 32999-05-16 03:36 G 13773832.50 13773832.65 13773832.81 0.0089 0.0050

Neptune 32999-08-12 06:43 G 13773920.65 13773920.78 13773920.92 0.0089 0.0060

Earth 32999-11-04 16:05 G 13774005.01 13774005.17 13774005.32 0.2674 0.0669

Moon 32999-11-04 16:48 G 13774005.05 13774005.20 13774005.35 0.2680 0.0676 *

Neptune 32999-11-08 09:50 G 13774008.81 13774008.91 13774009.03 0.0089 0.0070

Jupiter 32999-12-11 09:36 G 13774041.86 13774041.90 13774041.93 0.0522 0.0501

Neptune 33000-02-04 12:57 G 13774096.98 13774097.04 13774097.13 0.0089 0.0080

Jupiter 33000-03-10 15:07 G 13774131.01 13774131.13 13774131.26 0.0519 0.0093

Venus 33000-06-11 19:12 G 13774224.24 13774224.30 13774224.36 0.3681 0.3093

34TH MILLENNIUM CE

This is a list of transits of Mercury in the 34th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**33006-05-08 10:19**	**G**	**13776380.75**	**13776380.93**	**13776381.11**	**0.0507**	**0.0060**	
Moon	**33009-05-04 11:31**	**G**	**13777472.88**	**13777472.98**	**13777473.08**	**0.2654**	**0.1021**	
Earth	**33009-05-04 12:00**	**G**	**13777472.90**	**13777473.00**	**13777473.10**	**0.2657**	**0.0891**	*****
Uranus	**33011-05-31 22:33**	**G**	**13778230.41**	**13778230.44**	**13778230.51**	**0.0134**	**0.0128**	
Uranus	**33011-08-28 05:17**	**G**	**13778318.61**	**13778318.72**	**13778318.85**	**0.0134**	**0.0104**	
Uranus	**33011-11-24 11:45**	**G**	**13778406.85**	**13778406.99**	**13778407.15**	**0.0134**	**0.0080**	
Jupiter	**33011-12-28 19:26**	**G**	**13778441.19**	**13778441.31**	**13778441.44**	**0.0520**	**0.0057**	
Uranus	**33012-02-20 18:29**	**G**	**13778495.10**	**13778495.27**	**13778495.43**	**0.0134**	**0.0056**	
Uranus	**33012-05-19 00:43**	**G**	**13778583.36**	**13778583.53**	**13778583.71**	**0.0134**	**0.0033**	
Uranus	**33012-08-15 07:12**	**G**	**13778671.61**	**13778671.80**	**13778671.98**	**0.0134**	**0.0010**	
Uranus	**33012-11-11 13:26**	**G**	**13778759.88**	**13778760.06**	**13778760.24**	**0.0134**	**0.0014**	
Mars	**33012-12-17 12:14**	**G**	**13778795.93**	**13778796.01**	**13778796.09**	**0.1833**	**0.1337**	
Uranus	**33013-02-07 19:41**	**G**	**13778848.14**	**13778848.32**	**13778848.49**	**0.0134**	**0.0037**	
Uranus	**33013-05-07 01:41**	**G**	**13778936.42**	**13778936.57**	**13778936.74**	**0.0134**	**0.0060**	
Uranus	**33013-08-03 07:41**	**G**	**13779024.69**	**13779024.82**	**13779024.97**	**0.0134**	**0.0083**	
Uranus	**33013-10-30 13:55**	**G**	**13779112.98**	**13779113.08**	**13779113.20**	**0.0133**	**0.0105**	
Saturn	**33014-01-23 18:43**	**G**	**13779198.19**	**13779198.28**	**13779198.39**	**0.0295**	**0.0244**	
Uranus	**33014-01-26 19:41**	**G**	**13779201.29**	**13779201.32**	**13779201.39**	**0.0133**	**0.0128**	
Saturn	**33014-04-22 18:57**	**G**	**13779287.12**	**13779287.29**	**13779287.47**	**0.0296**	**0.0046**	
Saturn	**33014-07-20 18:43**	**G**	**13779376.13**	**13779376.28**	**13779376.43**	**0.0297**	**0.0149**	
Jupiter	**33018-02-24 07:26**	**G**	**13780690.65**	**13780690.81**	**13780690.96**	**0.0506**	**0.0262**	
Mars	**33021-07-15 03:07**	**G**	**13781927.50**	**13781927.63**	**13781927.76**	**0.1701**	**0.0928**	
Moon	**33022-05-07 04:48**	**G**	**13782223.59**	**13782223.70**	**13782223.81**	**0.2657**	**0.0401**	
Earth	**33022-05-07 05:31**	**G**	**13782223.62**	**13782223.73**	**13782223.84**	**0.2657**	**0.0439**	*****
Mars	**33022-05-09 20:24**	**G**	**13782226.23**	**13782226.35**	**13782226.47**	**0.1841**	**0.0175**	
Jupiter	**33023-10-17 00:00**	**G**	**13782751.38**	**13782751.50**	**13782751.62**	**0.0520**	**0.0197**	
Jupiter	**33024-01-14 06:00**	**G**	**13782840.67**	**13782840.75**	**13782840.83**	**0.0517**	**0.0397**	

Saturn 33027-11-22 00:43 G 13784248.43 13784248.53 13784248.64 0.0267 0.0164

Saturn 33028-02-18 11:17 G 13784336.83 13784336.97 13784337.10 0.0266 0.0060

Saturn 33028-05-16 21:36 G 13784425.27 13784425.40 13784425.54 0.0265 0.0046

Saturn 33028-08-13 08:09 G 13784513.73 13784513.84 13784513.96 0.0265 0.0151

Saturn 33028-11-09 18:43 G 13784602.26 13784602.28 13784602.32 0.0264 0.0257

Jupiter 33029-12-13 04:05 G 13785000.61 13785000.67 13785000.73 0.0506 0.0470

Jupiter 33030-03-13 12:57 G 13785090.91 13785091.04 13785091.18 0.0508 0.0332

Mars 33030-12-05 05:31 G 13785357.57 13785357.73 13785357.88 0.1694 0.0405

Mars 33031-09-30 04:33 G 13785656.59 13785656.69 13785656.79 0.1849 0.1011

Moon 33032-11-02 15:21 G 13786056.02 13786056.14 13786056.25 0.2682 0.1812

Earth 33032-11-02 15:21 G 13786056.02 13786056.14 13786056.26 0.2675 0.1728 *

Moon 33035-05-09 22:48 G 13786974.36 13786974.45 13786974.53 0.2663 0.1689

Earth 33035-05-09 23:02 G 13786974.38 13786974.46 13786974.54 0.2657 0.1788 *

Jupiter 33035-08-05 04:05 G 13787061.58 13787061.67 13787061.77 0.0521 0.0345

Jupiter 33035-11-02 10:05 G 13787150.80 13787150.92 13787151.03 0.0518 0.0248

Venus 33040-06-03 12:57 G 13788825.95 13788826.04 13788826.12 0.3683 0.2081

Jupiter 33041-12-30 10:33 G 13789400.77 13789400.94 13789401.12 0.0508 0.0136

Moon 33042-05-02 23:17 G 13789524.40 13789524.47 13789524.54 0.2650 0.1968

Earth 33042-05-02 23:17 G 13789524.40 13789524.47 13789524.55 0.2657 0.1937 *

Saturn 33043-06-12 18:14 G 13789930.24 13789930.26 13789930.30 0.0295 0.0290

Saturn 33043-09-09 18:43 G 13790019.11 13790019.28 13790019.45 0.0296 0.0092

Saturn 33043-12-07 18:29 G 13790108.11 13790108.27 13790108.44 0.0296 0.0105

Venus 33044-06-04 06:29 G 13790287.66 13790287.77 13790287.88 0.3688 0.2067

Earth 33045-11-05 22:48 G 13790807.31 13790807.45 13790807.59 0.2674 0.1235

Moon 33045-11-05 23:45 G 13790807.37 13790807.49 13790807.62 0.2679 0.1478 *

Venus 33045-12-18 06:00 G 13790849.64 13790849.75 13790849.86 0.3682 0.0223

Jupiter 33047-05-24 07:41 G 13791371.80 13791371.82 13791371.85 0.0521 0.0506

Jupiter 33047-08-21 13:26 G 13791460.93 13791461.06 13791461.19 0.0519 0.0085

Venus 33049-12-19 08:09 G 13792311.72 13792311.84 13792311.97 0.3689 0.1548

Venus 33051-07-03 23:31 G 13792873.38 13792873.48 13792873.58 0.3682 0.1790

Mars 33052-06-17 12:14 G 13793222.95 13793223.01 13793223.08 0.1833 0.1499

Jupiter 33053-10-18 08:09 G 13793710.66 13793710.84 13793711.02 0.0507 0.0061

Uranus 33054-08-16 07:55 G 13794012.77 13794012.83 13794012.90 0.0144 0.0124

Uranus 33054-11-12 11:45 G 13794100.90 13794100.99 13794101.09 0.0144 0.0103

Uranus 33055-02-08 15:36 G 13794189.05 13794189.15 13794189.27 0.0144 0.0081

Moon 33055-05-05 16:05 G 13794275.07 13794275.17 13794275.28 0.2654 0.0675

Earth 33055-05-05 16:48 G 13794275.09 13794275.20 13794275.31 0.2657 0.0617 *

Uranus 33055-05-07 19:41 G 13794277.20 13794277.32 13794277.44 0.0144 0.0059

Uranus 33055-08-03 23:31 G 13794365.35 13794365.48 13794365.62 0.0145 0.0038

Uranus 33055-10-31 03:36 G 13794453.51 13794453.65 13794453.79 0.0145 0.0016

Uranus 33056-01-27 07:26 G 13794541.68 13794541.81 13794541.95 0.0145 0.0008

Uranus 33056-04-24 11:31 G 13794629.85 13794629.98 13794630.12 0.0145 0.0029

Uranus 33056-07-21 15:21 G 13794718.02 13794718.14 13794718.28 0.0145 0.0052

Uranus 33056-10-17 19:41 G 13794806.20 13794806.32 13794806.44 0.0145 0.0074

Uranus 33057-01-13 23:31 G 13794894.39 13794894.48 13794894.59 0.0145 0.0097

Saturn 33057-04-10 04:33 G 13794980.59 13794980.69 13794980.78 0.0267 0.0183

Uranus 33057-04-12 03:36 G 13794982.59 13794982.65 13794982.74 0.0145 0.0120

Saturn 33057-07-07 14:53 G 13795068.99 13795069.12 13795069.25 0.0266 0.0079

Uranus 33057-07-09 07:55 G 13795070.82 13795070.83 13795070.86 0.0145 0.0143

Saturn 33057-10-04 01:26 G 13795157.42 13795157.56 13795157.69 0.0265 0.0027

Saturn 33057-12-31 12:00 G 13795245.88 13795246.00 13795246.12 0.0265 0.0131

Saturn 33058-03-29 22:33 G 13795334.38 13795334.44 13795334.50 0.0264 0.0236

Jupiter 33059-06-09 17:31 G 13795771.10 13795771.23 13795771.36 0.0520 0.0065

Mars 33061-01-13 03:36 G 13796354.54 13796354.65 13796354.77 0.1701 0.1123

Mars 33061-11-07 20:24 G 13796653.23 13796653.35 13796653.47 0.1840 0.0320

Jupiter 33065-08-06 04:48 G 13798020.55 13798020.70 13798020.86 0.0506 0.0268

Moon 33068-05-07 09:36 G 13799025.80 13799025.90 13799026.01 0.2658 0.0570

Earth 33068-05-07 10:19 G 13799025.82 13799025.93 13799026.03 0.2657 0.0717 *

Mars 33070-06-05 06:00 G 13799784.59 13799784.75 13799784.90 0.1694 0.0213

Jupiter 33071-03-28 21:50 G 13800081.29 13800081.41 13800081.53 0.0521 0.0210

Mars 33071-03-31 04:33 G 13800083.58 13800083.69 13800083.79 0.1849 0.0863

Jupiter 33071-06-26 03:50 G 13800170.57 13800170.66 13800170.75 0.0518 0.0385

Saturn 33073-01-26 18:00 G 13800751.10 13800751.25 13800751.41 0.0296 0.0141

Saturn 33073-04-25 18:00 G 13800840.08 13800840.25 13800840.43 0.0296 0.0056

Saturn 33073-07-23 17:31 G 13800929.14 13800929.23 13800929.33 0.0297 0.0251

Neptune 33076-07-15 13:41 G 13802017.05 13802017.07 13802017.11 0.0088 0.0086

Neptune 33076-10-11 14:53 G 13802105.08 13802105.12 13802105.20 0.0088 0.0080

Neptune 33077-01-07 16:19 G 13802193.12 13802193.18 13802193.27 0.0088 0.0073

Neptune 33077-04-05 18:00 G 13802281.16 13802281.25 13802281.34 0.0088 0.0065

Jupiter 33077-05-25 01:55 G 13802330.52 13802330.58 13802330.64 0.0505 0.0470

Neptune 33077-07-02 19:26 G 13802369.21 13802369.31 13802369.41 0.0088 0.0058

Jupiter 33077-08-23 10:48 G 13802420.81 13802420.95 13802421.08 0.0508 0.0329

Neptune 33077-09-28 20:38 G 13802457.26 13802457.36 13802457.48 0.0088 0.0051

Neptune 33077-12-25 22:05 G 13802545.31 13802545.42 13802545.54 0.0088 0.0043

Neptune 33078-03-23 23:17 G 13802633.36 13802633.47 13802633.60 0.0088 0.0037

Neptune 33078-06-20 00:43 G 13802721.41 13802721.53 13802721.67 0.0088 0.0029

Neptune 33078-09-16 02:09 G 13802809.46 13802809.59 13802809.73 0.0088 0.0022

Earth 33078-11-03 22:05 G 13802858.27 13802858.42 13802858.56 0.2675 0.1168

Moon 33078-11-03 22:05 G 13802858.28 13802858.42 13802858.56 0.2681 0.1124 *

Neptune 33078-12-13 03:36 G 13802897.52 13802897.65 13802897.79 0.0088 0.0015

Neptune 33079-03-11 05:02 G 13802985.58 13802985.71 13802985.85 0.0088 0.0008

Neptune 33079-06-07 06:29 G 13803073.63 13803073.77 13803073.91 0.0088 0.0001

Neptune 33079-09-03 07:55 G 13803161.69 13803161.83 13803161.97 0.0088 0.0007

Mars 33079-10-26 08:09 G 13803214.78 13803214.84 13803214.90 0.1687 0.1552

Neptune 33079-11-30 09:21 G 13803249.75 13803249.89 13803250.02 0.0088 0.0015

Neptune 33080-02-26 10:33 G 13803337.82 13803337.94 13803338.08 0.0088 0.0023

Neptune 33080-05-24 12:00 G 13803425.88 13803426.00 13803426.14 0.0088 0.0030

Neptune 33080-08-20 13:41 G 13803513.94 13803514.07 13803514.19 0.0088 0.0037

Neptune 33080-11-16 14:53 G 13803602.01 13803602.12 13803602.25 0.0088 0.0044

Neptune 33081-02-12 16:19 G 13803690.08 13803690.18 13803690.30 0.0088 0.0051

Moon 33081-05-10 03:36 G 13803776.58 13803776.65 13803776.71 0.2663 0.2086

Earth 33081-05-10 03:50 G 13803776.59 13803776.66 13803776.73 0.2657 0.2064 *

Neptune 33081-05-11 18:00 G 13803778.15 13803778.25 13803778.35 0.0088 0.0059

Neptune 33081-08-07 19:12 G 13803866.22 13803866.30 13803866.40 0.0088 0.0066

Neptune 33081-11-03 20:38 G 13803954.29 13803954.36 13803954.44 0.0088 0.0074

Neptune 33082-01-30 22:05 G 13804042.38 13804042.42 13804042.48 0.0088 0.0081

Jupiter 33083-01-15 02:24 G 13804391.51 13804391.60 13804391.69 0.0521 0.0351

Jupiter 33083-04-14 08:09 G 13804480.73 13804480.84 13804480.96 0.0518 0.0242

Saturn 33086-08-28 07:12 G 13805712.72 13805712.80 13805712.88 0.0267 0.0213

Saturn 33086-11-24 17:31 G 13805801.11 13805801.23 13805801.36 0.0266 0.0109

Saturn 33087-02-21 04:05 G 13805889.53 13805889.67 13805889.80 0.0265 0.0004

Saturn 33087-05-20 14:38 G 13805977.98 13805978.11 13805978.23 0.0265 0.0101

Saturn 33087-08-17 00:57 G 13806066.46 13806066.54 13806066.63 0.0264 0.0207

Moon 33088-05-03 03:50 G 13806326.58 13806326.66 13806326.74 0.2651 0.1704

Earth 33088-05-03 04:05 G 13806326.59 13806326.67 13806326.76 0.2657 0.1663 *

Jupiter 33089-06-11 07:41 G 13806730.65 13806730.82 13806731.00 0.0508 0.0127

Venus 33091-06-25 17:31 G 13807475.19 13807475.23 13807475.28 0.3684 0.3285

Earth 33091-11-07 05:17 G 13807609.61 13807609.72 13807609.84 0.2674 0.1790

Moon 33091-11-07 06:43 G 13807609.67 13807609.78 13807609.89 0.2679 0.1883 *

Mars 33091-12-17 12:14 G 13807649.96 13807650.01 13807650.07 0.1832 0.1636

Jupiter 33094-11-03 06:43 G 13808701.74 13808701.78 13808701.82 0.0521 0.0497

Jupiter 33095-01-31 12:29 G 13808790.89 13808791.02 13808791.14 0.0519 0.0096

Uranus 33095-06-21 06:43 G 13808931.71 13808931.78 13808931.88 0.0134 0.0119

Uranus 33095-09-17 13:12 G 13809019.94 13809020.05 13809020.19 0.0134 0.0095

Uranus 33095-12-14 19:55 G 13809108.18 13809108.33 13809108.49 0.0134 0.0071

Uranus 33096-03-12 02:24 G 13809196.43 13809196.60 13809196.77 0.0134 0.0047

Uranus 33096-06-08 08:38 G 13809284.69 13809284.86 13809285.05 0.0134 0.0024

Uranus 33096-09-04 15:07 G 13809372.95 13809373.13 13809373.31 0.0134 0.0001

Uranus 33096-12-01 21:21 G 13809461.21 13809461.39 13809461.57 0.0134 0.0023

Venus 33097-01-08 10:48 G 13809498.85 13809498.95 13809499.05 0.3683 0.1410

Uranus 33097-02-28 03:36 G 13809549.48 13809549.65 13809549.82 0.0134 0.0046

Uranus 33097-05-27 09:50 G 13809637.76 13809637.91 13809638.07 0.0134 0.0069

Uranus 33097-08-23 15:50 G 13809726.04 13809726.16 13809726.30 0.0134 0.0092

Uranus 33097-11-19 22:05 G 13809814.33 13809814.42 13809814.51 0.0133 0.0114

Mars 33100-07-15 04:05 G 13810781.57 13810781.67 13810781.77 0.1701 0.1312

Venus 33101-01-10 06:43 G 13810960.65 13810960.78 13810960.91 0.3688 0.0829

Jupiter 33101-03-31 05:31 G 13811040.55 13811040.73 13811040.91 0.0507 0.0069

Moon 33101-05-06 20:53 G 13811077.26 13811077.37 13811077.48 0.2654 0.0469

Earth 33101-05-06 21:36 G 13811077.29 13811077.40 13811077.51 0.2657 0.0343 *

Mars 33101-05-09 20:24 G 13811080.23 13811080.35 13811080.47 0.1841 0.0461

Saturn 33102-06-16 16:48 G 13811483.06 13811483.20 13811483.33 0.0295 0.0195

Venus 33102-07-26 04:05 G 13811522.56 13811522.67 13811522.78 0.3682 0.0518

Saturn 33102-09-13 16:48 G 13811572.02 13811572.20 13811572.38 0.0296 0.0005

Saturn 33102-12-11 16:19 G 13811661.06 13811661.18 13811661.32 0.0297 0.0200

Pluto 33106-02-23 07:41 G 13812830.81 13812830.82 13812830.84 0.0069 0.0069

Pluto 33106-05-22 08:09 G 13812918.78 13812918.84 13812918.92 0.0069 0.0059

Venus 33106-07-27 08:24 G 13812984.76 13812984.85 13812984.94 0.3689 0.2730

Pluto 33106-08-18 08:53 G 13813006.78 13813006.87 13813006.96 0.0070 0.0049

Pluto 33106-11-14 09:21 G 13813094.79 13813094.89 13813095.00 0.0070 0.0039

Jupiter 33106-11-20 15:50 G 13813101.03 13813101.16 13813101.29 0.0520 0.0068

Pluto 33107-02-10 09:50 G 13813182.80 13813182.91 13813183.04 0.0070 0.0029

Pluto 33107-05-09 10:33 G 13813270.82 13813270.94 13813271.07 0.0070 0.0019

Pluto 33107-08-05 11:02 G 13813358.83 13813358.96 13813359.09 0.0070 0.0009

Pluto 33107-11-01 11:45 G 13813446.86 13813446.99 13813447.12 0.0070 0.0002

Pluto 33108-01-28 12:14 G 13813534.88 13813535.01 13813535.14 0.0070 0.0012

Venus 33108-02-08 21:36 G 13813546.32 13813546.40 13813546.48 0.3682 0.2497

Pluto 33108-04-25 12:43 G 13813622.91 13813623.03 13813623.16 0.0070 0.0022

Pluto 33108-07-22 13:12 G 13813710.94 13813711.05 13813711.17 0.0070 0.0033

Pluto 33108-10-18 13:55 G 13813798.98 13813799.08 13813799.19 0.0071 0.0043

Pluto 33109-01-14 14:38 G 13813887.02 13813887.11 13813887.19 0.0071 0.0053

Pluto 33109-04-12 14:53 G 13813975.08 13813975.12 13813975.19 0.0071 0.0064

Mars 33109-12-05 06:29 G 13814211.61 13814211.77 13814211.93 0.1694 0.0038

Mars 33110-09-30 04:33 G 13814510.58 13814510.69 13814510.81 0.1848 0.0704

Jupiter 33113-01-17 03:07 G 13815350.48 13815350.63 13815350.79 0.0506 0.0263

Moon 33114-05-09 14:24 G 13815828.00 13815828.10 13815828.21 0.2660 0.0963

Earth 33114-05-09 15:07 G 13815828.03 13815828.13 13815828.23 0.2657 0.0991 *

Saturn 33116-01-16 10:48 G 13816444.89 13816444.95 13816445.01 0.0267 0.0234

Saturn 33116-04-13 21:07 G 13816533.27 13816533.38 13816533.50 0.0266 0.0130

Saturn 33116-07-11 07:41 G 13816621.68 13816621.82 13816621.95 0.0265 0.0027

Saturn 33116-10-07 18:00 G 13816710.12 13816710.25 13816710.38 0.0265 0.0080

Saturn 33117-01-04 04:33 G 13816798.60 13816798.69 13816798.79 0.0264 0.0185

Jupiter 33118-09-08 19:55 G 13817411.21 13817411.33 13817411.45 0.0520 0.0218

Jupiter 33118-12-07 01:55 G 13817500.49 13817500.58 13817500.67 0.0518 0.0377

Mars 33119-04-27 08:38 G 13817641.77 13817641.86 13817641.95 0.1687 0.1358

Jupiter 33124-11-04 23:45 G 13819660.43 13819660.49 13819660.56 0.0505 0.0470

Earth 33124-11-05 04:33 G 13819660.54 13819660.69 13819660.85 0.2675 0.0601 *

Moon 33124-11-05 05:17 G 13819660.56 13819660.72 13819660.87 0.2681 0.0520 *

Jupiter 33125-02-03 08:38 G 13819750.73 13819750.86 13819751.00 0.0508 0.0330

Moon 33127-05-12 08:24 G 13820578.80 13820578.85 13820578.91 0.2663 0.2256

Earth 33127-05-12 08:38 G 13820578.81 13820578.86 13820578.91 0.2657 0.2346 *

Jupiter 33130-06-28 00:14 G 13821721.42 13821721.51 13821721.60 0.0521 0.0363

Jupiter 33130-09-25 06:00 G 13821810.64 13821810.75 13821810.87 0.0519 0.0233

Mars 33131-06-18 12:14 G 13822076.99 13822077.01 13822077.04 0.1832 0.1785

Saturn 33131-11-03 16:05 G 13822215.07 13822215.17 13822215.27 0.0295 0.0246

Saturn 33132-01-31 16:19 G 13822304.00 13822304.18 13822304.35 0.0296 0.0047

Saturn 33132-04-29 16:05 G 13822393.02 13822393.17 13822393.32 0.0297 0.0150

Moon 33134-05-05 08:24 G 13823128.76 13823128.85 13823128.94 0.2652 0.1424

Earth 33134-05-05 08:53 G 13823128.78 13823128.87 13823128.96 0.2657 0.1392 *

Jupiter 33136-11-22 06:00 G 13824060.58 13824060.75 13824060.93 0.0507 0.0130

Earth 33137-11-08 12:00 G 13824411.93 13824412.00 13824412.07 0.2674 0.2339

Moon 33137-11-08 13:12 G 13824412.02 13824412.05 13824412.09 0.2679 0.2583 *

Uranus 33138-06-10 11:17 G 13824625.95 13824625.97 13824626.01 0.0144 0.0140

Uranus 33138-09-06 15:21 G 13824714.06 13824714.14 13824714.21 0.0144 0.0119

Uranus 33138-12-03 18:57 G 13824802.20 13824802.29 13824802.40 0.0144 0.0098

Uranus 33139-03-01 23:02 G 13824890.35 13824890.46 13824890.58 0.0144 0.0076

Uranus 33139-05-29 02:53 G 13824978.50 13824978.62 13824978.75 0.0144 0.0054

Uranus 33139-08-25 06:43 G 13825066.65 13825066.78 13825066.92 0.0145 0.0033

Uranus 33139-11-21 10:48 G 13825154.81 13825154.95 13825155.09 0.0145 0.0010

Mars 33140-01-14 04:48 G 13825208.63 13825208.70 13825208.77 0.1701 0.1507

Uranus 33140-02-17 14:53 G 13825242.98 13825243.12 13825243.25 0.0145 0.0012

Uranus 33140-05-15 18:43 G 13825331.15 13825331.28 13825331.42 0.0145 0.0035

Uranus 33140-08-11 22:48 G 13825419.33 13825419.45 13825419.58 0.0145 0.0057

Mars 33140-11-07 20:24 G 13825507.24 13825507.35 13825507.47 0.1840 0.0620

Uranus 33140-11-08 02:53 G 13825507.51 13825507.62 13825507.74 0.0145 0.0080

Uranus 33141-02-04 06:43 G 13825595.70 13825595.78 13825595.89 0.0145 0.0103

Uranus 33141-05-03 11:17 G 13825683.90 13825683.97 13825684.03 0.0145 0.0125

Jupiter 33142-04-16 05:02 G 13826031.68 13826031.71 13826031.74 0.0522 0.0502

Jupiter 33142-07-14 10:48 G 13826120.82 13826120.95 13826121.07 0.0519 0.0093

Saturn 33145-06-04 13:12 G 13827177.05 13827177.05 13827177.07 0.0267 0.0265

Saturn 33145-08-31 23:31 G 13827265.38 13827265.48 13827265.59 0.0266 0.0161

Saturn 33145-11-28 10:05 G 13827353.79 13827353.92 13827354.05 0.0266 0.0057

Saturn 33146-02-24 20:24 G 13827442.22 13827442.35 13827442.49 0.0265 0.0049

Saturn 33146-05-24 06:57 G 13827530.68 13827530.79 13827530.90 0.0264 0.0153

Saturn 33146-08-20 17:31 G 13827619.21 13827619.23 13827619.26 0.0264 0.0258

Moon 33147-05-08 01:41 G 13827879.46 13827879.57 13827879.68 0.2655 0.0150

Earth 33147-05-08 02:24 G 13827879.49 13827879.60 13827879.71 0.2657 0.0080 *

Venus 33148-01-31 15:21 G 13828148.07 13828148.14 13828148.22 0.3684 0.2633

Jupiter 33148-09-10 03:07 G 13828370.45 13828370.63 13828370.81 0.0507 0.0075

Mars 33149-06-05 07:12 G 13828638.64 13828638.80 13828638.95 0.1694 0.0181

Mars 33150-03-31 04:33 G 13828937.58 13828937.69 13828937.80 0.1848 0.0572

Venus 33152-02-01 04:48 G 13829609.65 13829609.70 13829609.76 0.3687 0.3319

Venus 33153-08-16 08:38 G 13830171.75 13830171.86 13830171.97 0.3683 0.0737

Jupiter 33154-05-02 14:53 G 13830431.00 13830431.12 13830431.25 0.0520 0.0058

Venus 33157-08-17 06:57 G 13831633.65 13831633.79 13831633.92 0.3688 0.0382

Mars 33158-10-26 09:07 G 13832068.77 13832068.88 13832068.99 0.1687 0.1172

Venus 33159-03-02 01:55 G 13832195.48 13832195.58 13832195.69 0.3682 0.1201

Mars 33159-08-21 12:43 G 13832368.00 13832368.03 13832368.07 0.1856 0.1740

Moon 33160-05-09 19:26 G 13832630.21 13832630.31 13832630.41 0.2661 0.1164

Earth 33160-05-09 19:55 G 13832630.23 13832630.33 13832630.43 0.2657 0.1270 *

Jupiter 33160-06-29 00:43 G 13832680.38 13832680.53 13832680.69 0.0506 0.0268

Neptune 33160-12-23 06:00 G 13832857.68 13832857.75 13832857.82 0.0089 0.0081

Neptune 33161-03-21 09:07 G 13832945.78 13832945.88 13832946.00 0.0089 0.0071

Neptune 33161-06-17 12:14 G 13833033.89 13833034.01 13833034.17 0.0089 0.0061

Saturn 33161-06-19 13:41 G 13833035.90 13833036.07 13833036.24 0.0296 0.0110

Neptune 33161-09-13 16:05 G 13833122.02 13833122.17 13833122.32 0.0089 0.0050

Saturn 33161-09-16 13:41 G 13833124.90 13833125.07 13833125.24 0.0296 0.0088

Neptune 33161-12-10 19:12 G 13833210.14 13833210.30 13833210.48 0.0089 0.0040

Saturn 33161-12-14 13:12 G 13833214.00 13833214.05 13833214.10 0.0297 0.0283

Neptune 33162-03-08 22:33 G 13833298.27 13833298.44 13833298.63 0.0089 0.0030

Neptune 33162-06-05 01:55 G 13833386.40 13833386.58 13833386.77 0.0089 0.0020

Neptune 33162-09-01 05:17 G 13833474.54 13833474.72 13833474.91 0.0089 0.0010

Neptune 33162-11-28 08:38 G 13833562.68 13833562.86 13833563.05 0.0089 0.0002

Neptune 33163-02-24 12:00 G 13833650.81 13833651.00 13833651.18 0.0089 0.0011

Neptune 33163-05-23 15:07 G 13833738.96 13833739.13 13833739.32 0.0089 0.0021

Neptune 33163-08-19 18:29 G 13833827.10 13833827.27 13833827.45 0.0089 0.0031

Neptune 33163-11-15 21:50 G 13833915.24 13833915.41 13833915.57 0.0089 0.0041

Neptune 33164-02-12 00:57 G 13834003.39 13834003.54 13834003.69 0.0089 0.0051

Neptune 33164-05-10 04:05 G 13834091.54 13834091.67 13834091.81 0.0089 0.0061

Neptune 33164-08-06 07:26 G 13834179.70 13834179.81 13834179.92 0.0089 0.0071

Venus 33164-09-14 19:26 G 13834219.26 13834219.31 13834219.36 0.3682 0.3208

Neptune 33164-11-02 10:33 G 13834267.87 13834267.94 13834268.02 0.0089 0.0081

Jupiter 33166-02-18 18:29 G 13834741.15 13834741.27 13834741.39 0.0520 0.0217

Jupiter 33166-05-19 00:29 G 13834830.43 13834830.52 13834830.60 0.0518 0.0378

Moon 33167-05-03 20:24 G 13835180.30 13835180.35 13835180.40 0.2650 0.2361

Earth 33167-05-03 20:24 G 13835180.31 13835180.35 13835180.39 0.2656 0.2428 *

Earth 33170-11-06 11:17 G 13836462.81 13836462.97 13836463.13 0.2675 0.0053

Moon 33170-11-06 12:14 G 13836462.85 13836463.01 13836463.16 0.2681 0.0034 *

Jupiter 33172-04-16 22:33 G 13836990.37 13836990.44 13836990.51 0.0505 0.0459

Jupiter 33172-07-16 07:26 G 13837080.68 13837080.81 13837080.94 0.0508 0.0341

Earth 33173-05-12 13:26 G 13837381.05 13837381.06 13837381.08 0.2657 0.2624

Saturn 33175-01-19 02:53 G 13837997.53 13837997.62 13837997.72 0.0266 0.0185

Saturn 33175-04-17 13:12 G 13838085.93 13838086.05 13838086.18 0.0266 0.0081

Saturn 33175-07-14 23:45 G 13838174.35 13838174.49 13838174.62 0.0265 0.0024

Saturn 33175-10-11 10:05 G 13838262.81 13838262.92 13838263.05 0.0265 0.0130

Saturn 33176-01-07 20:53 G 13838351.31 13838351.37 13838351.43 0.0264 0.0234

Jupiter 33177-12-07 22:33 G 13839051.35 13839051.44 13839051.53 0.0521 0.0366

Jupiter 33178-03-07 04:19 G 13839140.57 13839140.68 13839140.80 0.0519 0.0229

Uranus 33179-04-15 08:09 G 13839544.84 13839544.84 13839544.85 0.0134 0.0134

Uranus 33179-07-12 14:38 G 13839633.02 13839633.11 13839633.23 0.0134 0.0110

Mars 33179-07-15 05:17 G 13839635.71 13839635.72 13839635.73 0.1702 0.1698

Uranus 33179-10-08 21:07 G 13839721.25 13839721.38 13839721.53 0.0134 0.0086

Uranus 33180-01-05 03:50 G 13839809.50 13839809.66 13839809.83 0.0134 0.0062

Uranus 33180-04-02 10:19 G 13839897.76 13839897.93 13839898.11 0.0134 0.0038

Moon 33180-05-05 13:12 G 13839930.95 13839931.05 13839931.15 0.2652 0.1235

Earth 33180-05-05 13:41 G 13839930.97 13839931.07 13839931.17 0.2656 0.1118 *

Mars 33180-05-08 20:38 G 13839934.25 13839934.36 13839934.46 0.1840 0.0766

Uranus 33180-06-29 16:48 G 13839986.02 13839986.20 13839986.38 0.0134 0.0015

Uranus 33180-09-25 23:02 G 13840074.28 13840074.46 13840074.64 0.0134 0.0009

Uranus 33180-12-23 05:17 G 13840162.55 13840162.72 13840162.90 0.0134 0.0032

Uranus 33181-03-21 11:31 G 13840250.82 13840250.98 13840251.15 0.0134 0.0055

Uranus 33181-06-17 17:45 G 13840339.10 13840339.24 13840339.39 0.0134 0.0078

Uranus 33181-09-13 23:45 G 13840427.38 13840427.49 13840427.62 0.0134 0.0101

Uranus 33181-12-11 06:00 G 13840515.69 13840515.75 13840515.82 0.0134 0.0123

Jupiter 33184-05-04 04:33 G 13841390.52 13841390.69 13841390.86 0.0507 0.0138

Mars 33188-12-04 07:41 G 13843065.67 13843065.82 13843065.97 0.1694 0.0369

Jupiter 33189-09-26 02:53 G 13843361.60 13843361.62 13843361.65 0.0522 0.0510

Mars 33189-09-29 04:33 G 13843364.58 13843364.69 13843364.81 0.1848 0.0421

Jupiter 33189-12-24 08:53 G 13843450.74 13843450.87 13843450.99 0.0519 0.0085

Saturn 33190-11-06 12:14 G 13843767.87 13843768.01 13843768.17 0.0296 0.0166

Saturn 33191-02-03 12:29 G 13843856.84 13843857.02 13843857.20 0.0297 0.0033

Saturn 33191-05-03 12:00 G 13843945.90 13843946.00 13843946.12 0.0297 0.0230

Pluto 33192-03-31 19:12 G 13844279.19 13844279.30 13844279.44 0.0075 0.0058

Pluto 33192-06-27 22:05 G 13844367.25 13844367.42 13844367.59 0.0075 0.0039

Pluto 33192-09-24 00:29 G 13844455.34 13844455.52 13844455.72 0.0074 0.0021

Pluto 33192-12-21 03:21 G 13844543.44 13844543.64 13844543.84 0.0074 0.0002

Pluto 33193-03-19 05:45 G 13844631.56 13844631.74 13844631.94 0.0074 0.0017

Moon 33193-05-08 06:29 G 13844681.66 13844681.77 13844681.88 0.2657 0.0121

Earth 33193-05-08 07:12 G 13844681.69 13844681.80 13844681.91 0.2657 0.0212 *

Pluto 33193-06-15 08:24 G 13844719.68 13844719.85 13844720.03 0.0074 0.0035

Pluto 33193-09-11 11:02 G 13844807.83 13844807.96 13844808.10 0.0074 0.0053

Pluto 33193-12-08 13:12 G 13844896.03 13844896.05 13844896.12 0.0074 0.0072

Jupiter 33196-02-21 01:41 G 13845700.39 13845700.57 13845700.75 0.0506 0.0063

Mars 33198-04-26 09:50 G 13846495.78 13846495.91 13846496.04 0.1687 0.0977

Mars 33199-02-19 12:43 G 13846794.98 13846795.03 13846795.09 0.1856 0.1602

Jupiter 33201-10-12 13:26 G 13847760.93 13847761.06 13847761.19 0.0520 0.0057

Earth 33203-11-04 10:19 G 13848513.88 13848513.93 13848513.99 0.2675 0.2464

Moon 33203-11-04 10:05 G 13848513.89 13848513.92 13848513.96 0.2681 0.2600 *

Saturn 33204-06-07 05:17 G 13848729.65 13848729.72 13848729.80 0.0266 0.0217

Saturn 33204-09-03 15:36 G 13848818.03 13848818.15 13848818.27 0.0266 0.0114

Venus 33204-09-06 13:12 G 13848820.96 13848821.05 13848821.15 0.3683 0.1978

Saturn 33204-12-01 02:09 G 13848906.45 13848906.59 13848906.72 0.0265 0.0012

Saturn 33205-02-27 12:29 G 13848994.89 13848995.02 13848995.15 0.0265 0.0096

Saturn 33205-05-26 23:02 G 13849083.37 13849083.46 13849083.55 0.0264 0.0201

Moon 33206-05-11 00:14 G 13849432.42 13849432.51 13849432.60 0.2662 0.1500

Earth 33206-05-11 00:43 G 13849432.44 13849432.53 13849432.62 0.2657 0.1547 *

Jupiter 33207-12-09 22:48 G 13850010.29 13850010.45 13850010.60 0.0506 0.0266

Venus 33208-09-07 05:02 G 13850282.60 13850282.71 13850282.83 0.3688 0.2078

Venus 33210-03-23 06:29 G 13850844.66 13850844.77 13850844.88 0.3683 0.0071

Moon 33213-05-04 00:57 G 13851982.48 13851982.54 13851982.60 0.2650 0.2222

Earth 33213-05-04 01:12 G 13851982.48 13851982.55 13851982.61 0.2656 0.2160 *

Jupiter 33213-07-31 17:45 G 13852071.12 13852071.24 13852071.36 0.0520 0.0200

Jupiter 33213-10-28 23:45 G 13852160.41 13852160.49 13852160.57 0.0518 0.0395

Venus 33214-03-24 06:57 G 13852306.67 13852306.79 13852306.92 0.3689 0.1589

Venus 33215-10-07 00:00 G 13852868.40 13852868.50 13852868.59 0.3682 0.1903

Earth 33216-11-06 18:00 G 13853265.10 13853265.25 13853265.41 0.2675 0.0538

Moon 33216-11-06 18:57 G 13853265.14 13853265.29 13853265.44 0.2681 0.0733 *

Jupiter 33219-09-27 20:24 G 13854320.28 13854320.35 13854320.43 0.0505 0.0458

Mars 33219-11-07 20:38 G 13854361.25 13854361.36 13854361.46 0.1840 0.0914

Jupiter 33219-12-27 05:31 G 13854410.60 13854410.73 13854410.86 0.0508 0.0343

Saturn 33220-03-25 08:53 G 13854499.77 13854499.87 13854499.98 0.0295 0.0235

Saturn 33220-06-22 09:07 G 13854588.71 13854588.88 13854589.06 0.0296 0.0036

Saturn 33220-09-19 08:53 G 13854677.73 13854677.87 13854678.03 0.0297 0.0162

Uranus 33222-06-30 18:43 G 13855327.24 13855327.28 13855327.33 0.0144 0.0134

Uranus 33222-09-26 22:33 G 13855415.36 13855415.44 13855415.53 0.0144 0.0113

Uranus 33222-12-24 02:38 G 13855503.50 13855503.61 13855503.71 0.0144 0.0092

Uranus 33223-03-22 06:14 G 13855591.65 13855591.76 13855591.89 0.0144 0.0070

Uranus 33223-06-18 10:19 G 13855679.80 13855679.93 13855680.06 0.0144 0.0048

Uranus 33223-09-14 14:09 G 13855767.96 13855768.09 13855768.23 0.0144 0.0027

Uranus 33223-12-11 18:14 G 13855856.12 13855856.26 13855856.40 0.0144 0.0005

Uranus 33224-03-08 22:05 G 13855944.29 13855944.42 13855944.56 0.0145 0.0018

Uranus 33224-06-05 02:09 G 13856032.46 13856032.59 13856032.72 0.0145 0.0040

Uranus 33224-09-01 06:14 G 13856120.64 13856120.76 13856120.88 0.0145 0.0063

Uranus 33224-11-28 10:05 G 13856208.82 13856208.92 13856209.04 0.0145 0.0086

Uranus 33225-02-24 14:24 G 13856297.01 13856297.10 13856297.19 0.0145 0.0108

Jupiter 33225-05-19 21:21 G 13856381.30 13856381.39 13856381.48 0.0521 0.0360

Uranus 33225-05-23 18:29 G 13856385.22 13856385.27 13856385.33 0.0145 0.0131

Jupiter 33225-08-17 03:07 G 13856470.52 13856470.63 13856470.75 0.0519 0.0233

Moon 33226-05-06 18:00 G 13856733.14 13856733.25 13856733.35 0.2652 0.0877

Earth 33226-05-06 18:29 G 13856733.17 13856733.27 13856733.37 0.2657 0.0848 *

Mars 33228-06-04 07:55 G 13857492.69 13857492.83 13857492.98 0.1695 0.0548

Mars 33229-03-30 04:48 G 13857791.58 13857791.70 13857791.82 0.1848 0.0264

Jupiter 33231-10-15 03:36 G 13858720.48 13858720.65 13858720.82 0.0507 0.0155

Saturn 33233-10-25 08:09 G 13859461.80 13859461.84 13859461.90 0.0267 0.0245

Saturn 33234-01-21 18:43 G 13859550.17 13859550.28 13859550.39 0.0266 0.0140

Saturn 33234-04-20 05:02 G 13859638.58 13859638.71 13859638.84 0.0265 0.0036

Saturn 33234-07-17 15:36 G 13859727.01 13859727.15 13859727.28 0.0265 0.0069

Saturn 33234-10-14 01:55 G 13859815.48 13859815.58 13859815.69 0.0264 0.0174

Jupiter 33237-03-08 01:41 G 13860691.54 13860691.57 13860691.59 0.0522 0.0508

Jupiter 33237-06-05 07:12 G 13860780.68 13860780.80 13860780.93 0.0519 0.0085

Mars 33237-10-25 10:33 G 13860922.80 13860922.94 13860923.08 0.1688 0.0777

Mars 33238-08-20 12:57 G 13861221.96 13861222.04 13861222.11 0.1855 0.1455

Moon 33239-05-09 11:17 G 13861483.86 13861483.97 13861484.08 0.2658 0.0351

Earth 33239-05-09 12:00 G 13861483.89 13861484.00 13861484.11 0.2656 0.0484 *

Neptune 33241-04-12 12:43 G 13862188.01 13862188.03 13862188.07 0.0088 0.0086

Neptune 33241-07-09 14:09 G 13862276.04 13862276.09 13862276.16 0.0088 0.0078

Neptune 33241-10-05 15:21 G 13862364.08 13862364.14 13862364.23 0.0088 0.0072

Neptune 33242-01-01 17:02 G 13862452.12 13862452.21 13862452.30 0.0088 0.0064

Neptune 33242-03-30 18:29 G 13862540.17 13862540.27 13862540.37 0.0088 0.0057

Neptune 33242-06-26 19:41 G 13862628.22 13862628.32 13862628.44 0.0088 0.0050

Neptune 33242-09-22 21:07 G 13862716.27 13862716.38 13862716.50 0.0088 0.0042

Neptune 33242-12-19 22:19 G 13862804.32 13862804.43 13862804.57 0.0088 0.0036

Neptune 33243-03-17 23:45 G 13862892.37 13862892.49 13862892.63 0.0088 0.0029

Neptune 33243-06-14 01:26 G 13862980.43 13862980.56 13862980.69 0.0088 0.0021

Jupiter 33243-08-03 00:43 G 13863030.35 13863030.53 13863030.71 0.0506 0.0047

Neptune 33243-09-10 02:53 G 13863068.48 13863068.62 13863068.75 0.0088 0.0014

Neptune 33243-12-07 04:05 G 13863156.54 13863156.67 13863156.81 0.0088 0.0007

Neptune 33244-03-04 05:31 G 13863244.60 13863244.73 13863244.87 0.0088 0.0002

Neptune 33244-05-31 06:57 G 13863332.66 13863332.79 13863332.93 0.0088 0.0008

Neptune 33244-08-27 08:24 G 13863420.72 13863420.85 13863420.98 0.0088 0.0016

Neptune 33244-11-23 09:36 G 13863508.78 13863508.90 13863509.04 0.0088 0.0024

Neptune 33245-02-19 11:02 G 13863596.84 13863596.96 13863597.10 0.0088 0.0031

Neptune 33245-05-18 12:43 G 13863684.90 13863685.03 13863685.15 0.0088 0.0038

Neptune 33245-08-14 13:55 G 13863772.97 13863773.08 13863773.21 0.0088 0.0045

Neptune 33245-11-10 15:21 G 13863861.04 13863861.14 13863861.26 0.0088 0.0052

Neptune 33246-02-06 17:02 G 13863949.11 13863949.21 13863949.31 0.0088 0.0060

Neptune 33246-05-05 18:14 G 13864037.18 13864037.26 13864037.35 0.0088 0.0067

Neptune 33246-08-01 19:41 G 13864125.26 13864125.32 13864125.40 0.0088 0.0075

Neptune 33246-10-28 20:53 G 13864213.34 13864213.37 13864213.44 0.0088 0.0083

Jupiter 33249-03-24 11:45 G 13865090.86 13865090.99 13865091.11 0.0520 0.0062

Earth 33249-11-04 17:02 G 13865316.10 13865316.21 13865316.32 0.2675 0.1893

Moon 33249-11-04 17:17 G 13865316.10 13865316.22 13865316.34 0.2681 0.1777 *

Saturn 33249-11-09 07:26 G 13865320.64 13865320.81 13865320.98 0.0296 0.0097

Saturn 33250-02-06 07:26 G 13865409.64 13865409.81 13865409.97 0.0297 0.0102

Moon 33252-05-11 05:02 G 13866234.63 13866234.71 13866234.79 0.2661 0.1758

Earth 33252-05-11 05:31 G 13866234.65 13866234.73 13866234.81 0.2657 0.1825 *

Jupiter 33255-05-21 21:50 G 13867340.26 13867340.41 13867340.57 0.0506 0.0248

Venus 33255-09-28 18:00 G 13867470.20 13867470.25 13867470.30 0.3684 0.3187

Moon 33259-05-05 05:31 G 13868784.65 13868784.73 13868784.81 0.2650 0.1869

Earth 33259-05-05 05:45 G 13868784.67 13868784.74 13868784.82 0.2656 0.1891 *

Mars 33259-05-08 20:38 G 13868788.26 13868788.36 13868788.46 0.1840 0.1062

Jupiter 33261-01-10 16:19 G 13869401.06 13869401.18 13869401.30 0.0521 0.0199

Jupiter 33261-04-09 22:19 G 13869490.35 13869490.43 13869490.51 0.0518 0.0397

Venus 33261-04-13 11:02 G 13869493.86 13869493.96 13869494.07 0.3683 0.1321

Earth 33262-11-08 00:43 G 13870067.38 13870067.53 13870067.67 0.2675 0.1096

Moon 33262-11-08 01:41 G 13870067.43 13870067.57 13870067.71 0.2681 0.1141 *

Uranus 33263-05-05 15:21 G 13870246.10 13870246.14 13870246.22 0.0134 0.0128

Saturn 33263-06-10 20:53 G 13870282.27 13870282.37 13870282.47 0.0266 0.0175

Uranus 33263-08-01 22:19 G 13870334.32 13870334.43 13870334.55 0.0134 0.0103

Saturn 33263-09-07 07:12 G 13870370.67 13870370.80 13870370.93 0.0265 0.0071

Uranus 33263-10-29 04:48 G 13870422.56 13870422.70 13870422.86 0.0134 0.0079

Saturn 33263-12-04 17:31 G 13870459.10 13870459.23 13870459.37 0.0265 0.0034

Uranus 33264-01-25 11:17 G 13870510.81 13870510.97 13870511.14 0.0134 0.0055

Saturn 33264-03-02 04:05 G 13870547.55 13870547.67 13870547.78 0.0264 0.0138

Uranus 33264-04-22 17:45 G 13870599.07 13870599.24 13870599.42 0.0134 0.0031

Saturn 33264-05-29 14:24 G 13870636.06 13870636.10 13870636.16 0.0264 0.0244

Uranus 33264-07-20 00:14 G 13870687.33 13870687.51 13870687.69 0.0134 0.0007

Uranus 33264-10-16 06:29 G 13870775.60 13870775.77 13870775.96 0.0134 0.0017

Uranus 33265-01-12 12:43 G 13870863.87 13870864.03 13870864.21 0.0134 0.0040

Uranus 33265-04-10 18:57 G 13870952.14 13870952.29 13870952.46 0.0134 0.0063

Venus 33265-04-14 05:31 G 13870955.59 13870955.73 13870955.86 0.3688 0.0840

Uranus 33265-07-08 01:12 G 13871040.42 13871040.55 13871040.70 0.0134 0.0086

Uranus 33265-10-04 07:12 G 13871128.71 13871128.80 13871128.92 0.0134 0.0109

Uranus 33265-12-31 13:26 G 13871217.04 13871217.06 13871217.10 0.0134 0.0131

Venus 33266-10-28 04:19 G 13871517.58 13871517.68 13871517.79 0.3682 0.0630

Jupiter 33267-03-09 18:43 G 13871650.21 13871650.28 13871650.37 0.0505 0.0452

Jupiter 33267-06-08 03:50 G 13871740.53 13871740.66 13871740.79 0.0508 0.0349

Mars 33267-12-04 08:53 G 13871919.73 13871919.87 13871920.01 0.1695 0.0755

Mars 33268-09-28 04:48 G 13872218.58 13872218.70 13872218.82 0.1848 0.0141

Venus 33270-10-29 07:12 G 13872979.71 13872979.80 13872979.89 0.3689 0.2762

Moon 33272-05-06 22:33 G 13873535.34 13873535.44 13873535.55 0.2653 0.0721

Earth 33272-05-06 23:17 G 13873535.36 13873535.47 13873535.58 0.2656 0.0577 *

Venus 33272-05-12 21:50 G 13873541.33 13873541.41 13873541.49 0.3682 0.2607

Jupiter 33272-10-29 20:53 G 13873711.28 13873711.37 13873711.47 0.0521 0.0340

Jupiter 33273-01-27 02:38 G 13873800.50 13873800.61 13873800.73 0.0519 0.0255

Mars 33277-04-25 10:48 G 13875349.80 13875349.95 13875350.10 0.1688 0.0596

Mars 33278-02-18 12:57 G 13875648.95 13875649.04 13875649.12 0.1856 0.1303

Jupiter 33279-03-27 02:09 G 13876050.42 13876050.59 13876050.76 0.0507 0.0162

Saturn 33279-03-29 02:53 G 13876052.48 13876052.62 13876052.77 0.0295 0.0174

Saturn 33279-06-26 03:07 G 13876141.45 13876141.63 13876141.81 0.0296 0.0025

Saturn 33279-09-23 02:53 G 13876230.50 13876230.62 13876230.74 0.0297 0.0222

Jupiter 33284-08-18 00:29 G 13878021.49 13878021.52 13878021.56 0.0522 0.0499

Jupiter 33284-11-15 06:14 G 13878110.63 13878110.76 13878110.89 0.0519 0.0093

Moon 33285-05-09 16:05 G 13878286.06 13878286.17 13878286.27 0.2659 0.0710

Earth 33285-05-09 16:48 G 13878286.09 13878286.20 13878286.30 0.2656 0.0757 *

Jupiter 33291-01-13 00:14 G 13880360.33 13880360.51 13880360.69 0.0507 0.0026

Saturn 33292-10-27 23:31 G 13881014.40 13881014.48 13881014.57 0.0267 0.0205

Saturn 33293-01-24 09:50 G 13881102.79 13881102.91 13881103.04 0.0266 0.0101

Saturn 33293-04-22 20:09 G 13881191.21 13881191.34 13881191.48 0.0265 0.0008

Saturn 33293-07-20 06:43 G 13881279.66 13881279.78 13881279.90 0.0265 0.0109

Saturn 33293-10-16 17:02 G 13881368.14 13881368.21 13881368.30 0.0264 0.0215

Earth 33295-11-06 00:00 G 13882118.36 13882118.50 13882118.63 0.2675 0.1311

Moon 33295-11-06 00:14 G 13882118.38 13882118.51 13882118.65 0.2682 0.1359 *

Jupiter 33296-09-03 10:33 G 13882420.81 13882420.94 13882421.06 0.0520 0.0058

Moon 33298-05-12 10:05 G 13883036.85 13883036.92 13883036.98 0.2662 0.2051

Earth 33298-05-12 10:19 G 13883036.86 13883036.93 13883036.99 0.2656 0.2103 *

Mars 33298-11-06 20:38 G 13883215.27 13883215.36 13883215.45 0.1839 0.1212

Jupiter 33302-11-01 21:21 G 13884670.23 13884670.39 13884670.55 0.0506 0.0227

Moon 33305-05-06 10:19 G 13885586.84 13885586.93 13885587.01 0.2650 0.1714

Earth 33305-05-06 10:33 G 13885586.86 13885586.94 13885587.03 0.2656 0.1622 *

Uranus 33306-07-22 02:53 G 13886028.56 13886028.62 13886028.68 0.0144 0.0125

Uranus 33306-10-18 06:29 G 13886116.69 13886116.77 13886116.87 0.0144 0.0104

Uranus 33307-01-14 10:33 G 13886204.83 13886204.94 13886205.05 0.0144 0.0083

Uranus 33307-04-12 14:24 G 13886292.98 13886293.10 13886293.22 0.0144 0.0061

Mars 33307-06-05 09:21 G 13886346.76 13886346.89 13886347.02 0.1695 0.0943

Uranus 33307-07-09 18:14 G 13886381.13 13886381.26 13886381.40 0.0144 0.0040

Uranus 33307-10-05 22:19 G 13886469.29 13886469.43 13886469.56 0.0144 0.0018

Uranus 33308-01-02 02:09 G 13886557.46 13886557.59 13886557.73 0.0144 0.0006

Mars 33308-03-30 04:48 G 13886645.58 13886645.70 13886645.82 0.1848 0.0042

Uranus 33308-03-30 06:14 G 13886645.62 13886645.76 13886645.89 0.0144 0.0027 *

Jupiter 33308-06-23 14:53 G 13886731.00 13886731.12 13886731.24 0.0521 0.0199

Uranus 33308-06-26 10:05 G 13886733.80 13886733.92 13886734.06 0.0145 0.0050

Saturn 33308-08-16 00:29 G 13886784.42 13886784.52 13886784.63 0.0296 0.0239

Jupiter 33308-09-20 20:53 G 13886820.29 13886820.37 13886820.45 0.0518 0.0397

Uranus 33308-09-22 14:09 G 13886821.97 13886822.09 13886822.21 0.0145 0.0072

Earth 33308-11-09 07:26 G 13886869.69 13886869.81 13886869.93 0.2675 0.1657

Moon 33308-11-09 08:38 G 13886869.75 13886869.86 13886869.96 0.2680 0.1910 *

Saturn 33308-11-13 00:57 G 13886873.36 13886873.54 13886873.72 0.0296 0.0038

Uranus 33308-12-19 18:14 G 13886910.16 13886910.26 13886910.37 0.0145 0.0095

Saturn 33309-02-10 00:43 G 13886962.39 13886962.53 13886962.68 0.0297 0.0160

Uranus 33309-03-17 22:05 G 13886998.36 13886998.42 13886998.51 0.0145 0.0118

Uranus 33309-06-14 02:38 G 13887086.58 13887086.61 13887086.64 0.0145 0.0140

Venus 33312-05-05 15:50 G 13888143.08 13888143.16 13888143.24 0.3683 0.2534

Jupiter 33314-08-20 18:29 G 13888980.18 13888980.27 13888980.37 0.0505 0.0427

Jupiter 33314-11-19 03:21 G 13889070.52 13889070.64 13889070.76 0.0508 0.0372

Venus 33316-05-06 03:21 G 13889604.59 13889604.64 13889604.70 0.3687 0.3357

Mars 33316-10-25 11:31 G 13889776.83 13889776.98 13889777.14 0.1688 0.0393

Mars 33317-08-20 12:57 G 13890075.95 13890076.04 13890076.13 0.1855 0.1158

Venus 33317-11-19 09:07 G 13890166.77 13890166.88 13890166.98 0.3683 0.0655

Moon 33318-05-09 03:21 G 13890337.53 13890337.64 13890337.75 0.2655 0.0338

Earth 33318-05-09 04:05 G 13890337.56 13890337.67 13890337.78 0.2656 0.0313 *

Jupiter 33320-04-11 19:26 G 13891041.22 13891041.31 13891041.41 0.0521 0.0338

Jupiter 33320-07-10 01:26 G 13891130.45 13891130.56 13891130.67 0.0519 0.0258

Venus 33321-11-20 05:45 G 13891628.60 13891628.74 13891628.87 0.3688 0.0420

Saturn 33322-03-18 01:26 G 13891746.51 13891746.56 13891746.62 0.0266 0.0241

Saturn 33322-06-14 11:45 G 13891834.88 13891834.99 13891835.11 0.0266 0.0137

Saturn 33322-09-10 22:19 G 13891923.29 13891923.43 13891923.56 0.0265 0.0034

Saturn 33322-12-08 08:38 G 13892011.73 13892011.86 13892011.99 0.0264 0.0072

Saturn 33323-03-06 18:57 G 13892100.20 13892100.29 13892100.40 0.0264 0.0178

Venus 33323-06-05 02:24 G 13892190.50 13892190.60 13892190.70 0.3682 0.1316

Neptune 33325-09-20 03:07 G 13893028.56 13893028.63 13893028.72 0.0089 0.0080

Neptune 33325-12-17 06:29 G 13893116.67 13893116.77 13893116.90 0.0089 0.0070

Neptune 33326-03-15 09:36 G 13893204.78 13893204.90 13893205.06 0.0089 0.0060

Neptune 33326-06-11 13:26 G 13893292.91 13893293.06 13893293.22 0.0089 0.0049

Jupiter 33326-09-07 00:43 G 13893380.36 13893380.53 13893380.70 0.0507 0.0173

Neptune 33326-09-07 16:33 G 13893381.03 13893381.19 13893381.37 0.0089 0.0039

Neptune 33326-12-04 19:55 G 13893469.16 13893469.33 13893469.52 0.0089 0.0029

Neptune 33327-03-02 23:31 G 13893557.30 13893557.48 13893557.66 0.0089 0.0018

Neptune 33327-05-30 02:53 G 13893645.43 13893645.62 13893645.80 0.0089 0.0008

Neptune 33327-08-26 06:00 G 13893733.57 13893733.75 13893733.94 0.0089 0.0003

Neptune 33327-11-22 09:21 G 13893821.71 13893821.89 13893822.08 0.0089 0.0012

Neptune 33328-02-18 12:29 G 13893909.85 13893910.02 13893910.21 0.0089 0.0023

Neptune 33328-05-16 15:50 G 13893997.99 13893998.16 13893998.34 0.0089 0.0033

Neptune 33328-08-12 18:57 G 13894086.14 13894086.29 13894086.47 0.0089 0.0043

Neptune 33328-11-08 22:05 G 13894174.29 13894174.42 13894174.59 0.0089 0.0053

Venus 33328-12-18 19:55 G 13894214.28 13894214.33 13894214.37 0.3681 0.3323

Neptune 33329-02-05 01:26 G 13894262.44 13894262.56 13894262.70 0.0089 0.0063

Neptune 33329-05-04 04:33 G 13894350.60 13894350.69 13894350.81 0.0089 0.0073

Neptune 33329-07-31 07:41 G 13894438.78 13894438.82 13894438.91 0.0089 0.0083

Moon 33331-05-11 20:53 G 13895088.27 13895088.37 13895088.47 0.2659 0.0884

Earth 33331-05-11 21:36 G 13895088.30 13895088.40 13895088.50 0.2656 0.1034 *

Jupiter 33332-01-30 00:14 G 13895351.46 13895351.51 13895351.56 0.0522 0.0477

Jupiter 33332-04-28 06:00 G 13895440.62 13895440.75 13895440.87 0.0519 0.0117

Saturn 33338-04-01 19:55 G 13897605.17 13897605.33 13897605.50 0.0296 0.0121

Moon 33338-05-04 22:05 G 13897638.41 13897638.42 13897638.43 0.2650 0.2635

Earth 33338-05-04 22:05 G 13897638.41 13897638.42 13897638.42 0.2656 0.2649 *

Mars 33338-05-08 20:38 G 13897642.28 13897642.36 13897642.44 0.1840 0.1358

Jupiter 33338-06-25 23:02 G 13897690.28 13897690.46 13897690.64 0.0507 0.0018

Saturn 33338-06-29 20:09 G 13897694.17 13897694.34 13897694.51 0.0296 0.0079

Saturn 33338-09-26 19:41 G 13897783.26 13897783.32 13897783.39 0.0297 0.0275

Earth 33341-11-07 06:43 G 13898920.62 13898920.78 13898920.93 0.2675 0.0738

Moon 33341-11-07 07:12 G 13898920.65 13898920.80 13898920.95 0.2682 0.0587 *

Jupiter 33344-02-15 09:36 G 13899750.77 13899750.90 13899751.03 0.0520 0.0045

Moon 33344-05-13 14:53 G 13899839.08 13899839.12 13899839.17 0.2663 0.2406

Earth 33344-05-13 15:07 G 13899839.08 13899839.13 13899839.17 0.2656 0.2378 *

Mars 33346-12-04 09:50 G 13900773.79 13900773.91 13900774.02 0.1695 0.1128

Uranus 33347-05-26 23:17 G 13900947.40 13900947.47 13900947.57 0.0134 0.0119

Uranus 33347-08-23 06:14 G 13901035.63 13901035.76 13901035.89 0.0134 0.0094

Mars 33347-09-29 04:48 G 13901072.59 13901072.70 13901072.82 0.1847 0.0199

Uranus 33347-11-19 12:57 G 13901123.88 13901124.04 13901124.19 0.0134 0.0070

Uranus 33348-02-15 19:12 G 13901212.13 13901212.30 13901212.48 0.0134 0.0046

Uranus 33348-05-14 01:41 G 13901300.39 13901300.57 13901300.76 0.0134 0.0022

Uranus 33348-08-10 08:09 G 13901388.66 13901388.84 13901389.02 0.0134 0.0002

Uranus 33348-11-06 14:38 G 13901476.93 13901477.11 13901477.29 0.0134 0.0025

Uranus 33349-02-02 20:38 G 13901565.20 13901565.36 13901565.54 0.0134 0.0049

Uranus 33349-05-02 02:53 G 13901653.48 13901653.62 13901653.78 0.0134 0.0072

Uranus 33349-07-29 09:07 G 13901741.76 13901741.88 13901742.02 0.0134 0.0095

Uranus 33349-10-25 15:36 G 13901830.06 13901830.15 13901830.23 0.0134 0.0117

Jupiter 33350-04-13 20:53 G 13902000.21 13902000.37 13902000.54 0.0506 0.0203

Moon 33351-05-07 14:53 G 13902389.03 13902389.12 13902389.22 0.2650 0.1364

Earth 33351-05-07 15:21 G 13902389.05 13902389.14 13902389.23 0.2656 0.1350 *

Saturn 33351-11-01 14:24 G 13902567.00 13902567.10 13902567.20 0.0266 0.0170

Pluto 33352-01-20 23:31 G 13902647.43 13902647.48 13902647.52 0.0069 0.0065

Saturn 33352-01-29 00:43 G 13902655.40 13902655.53 13902655.66 0.0266 0.0065

Pluto 33352-04-17 23:31 G 13902735.42 13902735.48 13902735.58 0.0070 0.0056

Saturn 33352-04-26 11:02 G 13902743.83 13902743.96 13902744.09 0.0265 0.0040

Pluto 33352-07-15 00:14 G 13902823.42 13902823.51 13902823.62 0.0070 0.0045

Saturn 33352-07-23 21:21 G 13902832.28 13902832.39 13902832.51 0.0264 0.0146

Pluto 33352-10-11 00:43 G 13902911.43 13902911.53 13902911.66 0.0070 0.0036

Saturn 33352-10-20 07:55 G 13902920.80 13902920.83 13902920.88 0.0264 0.0251

Pluto 33353-01-07 01:41 G 13902999.44 13902999.57 13902999.69 0.0070 0.0025

Pluto 33353-04-05 02:09 G 13903087.46 13903087.59 13903087.72 0.0070 0.0015

Pluto 33353-07-02 02:38 G 13903175.48 13903175.61 13903175.74 0.0070 0.0005

Pluto 33353-09-28 03:21 G 13903263.51 13903263.64 13903263.77 0.0070 0.0005

Pluto 33353-12-25 03:50 G 13903351.53 13903351.66 13903351.79 0.0070 0.0015

Pluto 33354-03-23 04:19 G 13903439.56 13903439.68 13903439.81 0.0070 0.0026

Pluto 33354-06-19 04:48 G 13903527.60 13903527.70 13903527.82 0.0071 0.0036

Pluto 33354-09-15 05:17 G 13903615.64 13903615.72 13903615.83 0.0071 0.0047

Earth 33354-11-10 13:55 G 13903672.00 13903672.08 13903672.17 0.2675 0.2218

Moon 33354-11-10 15:36 G 13903672.07 13903672.15 13903672.22 0.2678 0.2302 *

Pluto 33354-12-12 06:14 G 13903703.68 13903703.76 13903703.83 0.0071 0.0057

Pluto 33355-03-10 06:29 G 13903791.75 13903791.77 13903791.82 0.0071 0.0068

Jupiter 33355-12-04 13:41 G 13904060.95 13904061.07 13904061.19 0.0520 0.0190

Jupiter 33356-03-02 19:41 G 13904150.24 13904150.32 13904150.40 0.0518 0.0405

Mars 33356-04-25 12:00 G 13904203.85 13904204.00 13904204.16 0.1688 0.0203

Mars 33357-02-18 12:57 G 13904502.94 13904503.04 13904503.14 0.1855 0.1020

Jupiter 33362-01-30 18:00 G 13906310.15 13906310.25 13906310.36 0.0505 0.0403

Jupiter 33362-05-01 02:53 G 13906400.52 13906400.62 13906400.74 0.0508 0.0396

Moon 33364-05-09 08:09 G 13907139.73 13907139.84 13907139.95 0.2656 0.0190

Earth 33364-05-09 08:53 G 13907139.76 13907139.87 13907139.98 0.2656 0.0082 *

Mars 33365-09-15 14:09 G 13907634.03 13907634.09 13907634.15 0.1681 0.1542

Saturn 33367-08-19 17:17 G 13908337.08 13908337.22 13908337.36 0.0296 0.0188

Jupiter 33367-09-22 18:14 G 13908371.16 13908371.26 13908371.36 0.0521 0.0334

Saturn 33367-11-16 17:31 G 13908426.05 13908426.23 13908426.41 0.0297 0.0012

Jupiter 33367-12-21 00:00 G 13908460.39 13908460.50 13908460.61 0.0519 0.0261

Saturn 33368-02-13 17:17 G 13908515.10 13908515.22 13908515.35 0.0297 0.0210

Venus 33368-12-10 13:41 G 13908815.98 13908816.07 13908816.17 0.3683 0.1873

Venus 33372-12-11 03:50 G 13910277.55 13910277.66 13910277.77 0.3687 0.2072

Jupiter 33374-02-17 00:29 G 13910710.36 13910710.52 13910710.69 0.0507 0.0199

Venus 33374-06-26 06:57 G 13910839.68 13910839.79 13910839.90 0.3683 0.0053

Moon 33377-05-12 01:41 G 13911890.48 13911890.57 13911890.67 0.2660 0.1281

Earth 33377-05-12 02:09 G 13911890.50 13911890.59 13911890.69 0.2656 0.1309 *

Mars 33377-11-06 20:38 G 13912069.30 13912069.36 13912069.43 0.1839 0.1516

Venus 33378-06-27 06:00 G 13912301.62 13912301.75 13912301.87 0.3688 0.1631

Jupiter 33379-07-11 22:48 G 13912681.40 13912681.45 13912681.51 0.0522 0.0472

Jupiter 33379-10-09 04:33 G 13912770.57 13912770.69 13912770.82 0.0520 0.0123

Venus 33380-01-10 00:14 G 13912863.42 13912863.51 13912863.61 0.3682 0.2024

Saturn 33381-03-20 16:05 G 13913299.10 13913299.17 13913299.26 0.0266 0.0207

Saturn 33381-06-17 02:38 G 13913387.48 13913387.61 13913387.73 0.0266 0.0101

Saturn 33381-09-13 12:57 G 13913475.90 13913476.04 13913476.18 0.0265 0.0003

Saturn 33381-12-10 23:17 G 13913564.35 13913564.47 13913564.60 0.0264 0.0108

Saturn 33382-03-09 09:50 G 13913652.83 13913652.91 13913652.99 0.0264 0.0213

Moon 33384-05-05 02:38 G 13914440.57 13914440.61 13914440.66 0.2649 0.2398

Earth 33384-05-05 02:53 G 13914440.57 13914440.62 13914440.66 0.2656 0.2383 *

Jupiter 33385-12-05 21:50 G 13915020.23 13915020.41 13915020.59 0.0506 0.0005

Mars 33386-06-04 10:19 G 13915200.84 13915200.93 13915201.03 0.1695 0.1327

Mars 33387-03-30 04:48 G 13915499.58 13915499.70 13915499.82 0.1847 0.0316

Earth 33387-11-08 13:26 G 13915722.90 13915723.06 13915723.22 0.2675 0.0170

Moon 33387-11-08 13:55 G 13915722.93 13915723.08 13915723.24 0.2681 0.0165 *

Moon 33390-05-14 19:41 G 13916641.31 13916641.32 13916641.34 0.2664 0.2606

Uranus 33390-05-15 07:12 G 13916641.76 13916641.80 13916641.84 0.0144 0.0137

Uranus 33390-08-11 10:48 G 13916729.88 13916729.95 13916730.04 0.0144 0.0116

Uranus 33390-11-07 14:38 G 13916818.02 13916818.11 13916818.22 0.0144 0.0095

Uranus 33391-02-03 18:43 G 13916906.16 13916906.28 13916906.40 0.0144 0.0073

Uranus 33391-05-02 22:33 G 13916994.31 13916994.44 13916994.57 0.0144 0.0052

Jupiter 33391-07-28 09:07 G 13917080.76 13917080.88 13917081.01 0.0520 0.0026

Uranus 33391-07-30 02:24 G 13917082.47 13917082.60 13917082.74 0.0144 0.0030

Uranus 33391-10-26 06:29 G 13917170.63 13917170.77 13917170.90 0.0144 0.0008

Uranus 33392-01-22 10:19 G 13917258.80 13917258.93 13917259.07 0.0144 0.0014

Uranus 33392-04-19 14:24 G 13917346.97 13917347.10 13917347.23 0.0144 0.0036

Uranus 33392-07-16 18:29 G 13917435.14 13917435.27 13917435.39 0.0144 0.0059

Uranus 33392-10-12 22:19 G 13917523.32 13917523.43 13917523.55 0.0145 0.0081

Uranus 33393-01-09 02:09 G 13917611.51 13917611.59 13917611.70 0.0145 0.0105

Uranus 33393-04-07 06:29 G 13917699.71 13917699.77 13917699.84 0.0145 0.0127

Mars 33395-10-25 12:29 G 13918630.86 13918631.02 13918631.18 0.1688 0.0034

Mars 33396-08-19 12:57 G 13918929.94 13918930.04 13918930.15 0.1855 0.0860

Saturn 33397-01-05 12:00 G 13919068.94 13919069.00 13919069.07 0.0295 0.0273

Saturn 33397-04-04 12:14 G 13919157.84 13919158.01 13919158.19 0.0296 0.0073

Moon 33397-05-07 19:41 G 13919191.22 13919191.32 13919191.42 0.2652 0.1156

Earth 33397-05-07 20:09 G 13919191.24 13919191.34 13919191.44 0.2656 0.1077 *

Saturn 33397-07-02 12:14 G 13919246.85 13919247.01 13919247.18 0.0297 0.0126

Jupiter 33397-09-23 19:55 G 13919330.16 13919330.33 13919330.50 0.0506 0.0188

Jupiter 33403-05-17 12:57 G 13921390.92 13921391.04 13921391.16 0.0520 0.0176

Jupiter 33403-08-14 18:57 G 13921480.21 13921480.29 13921480.36 0.0518 0.0419

Mars 33405-03-17 14:38 G 13922061.02 13922061.11 13922061.21 0.1682 0.1352

Neptune 33406-01-09 11:45 G 13922358.97 13922358.99 13922359.04 0.0088 0.0085

Neptune 33406-04-07 13:12 G 13922447.00 13922447.05 13922447.12 0.0088 0.0077

Neptune 33406-07-04 14:24 G 13922535.04 13922535.10 13922535.20 0.0088 0.0071

Neptune 33406-09-30 16:05 G 13922623.08 13922623.17 13922623.27 0.0088 0.0063

Neptune 33406-12-27 17:31 G 13922711.13 13922711.23 13922711.33 0.0088 0.0056

Neptune 33407-03-25 18:43 G 13922799.18 13922799.28 13922799.40 0.0088 0.0049

Neptune 33407-06-21 20:09 G 13922887.23 13922887.34 13922887.47 0.0088 0.0041

Neptune 33407-09-17 21:36 G 13922975.28 13922975.40 13922975.53 0.0088 0.0034

Neptune 33407-12-14 23:02 G 13923063.33 13923063.46 13923063.59 0.0088 0.0027

Neptune 33408-03-12 00:29 G 13923151.39 13923151.52 13923151.65 0.0088 0.0020

Neptune 33408-06-08 01:55 G 13923239.44 13923239.58 13923239.71 0.0088 0.0013

Neptune 33408-09-04 03:21 G 13923327.50 13923327.64 13923327.77 0.0088 0.0006

Neptune 33408-12-01 04:33 G 13923415.56 13923415.69 13923415.83 0.0088 0.0004

Neptune 33409-02-27 06:00 G 13923503.62 13923503.75 13923503.89 0.0088 0.0010

Neptune 33409-05-26 07:26 G 13923591.68 13923591.81 13923591.95 0.0088 0.0017

Jupiter 33409-07-13 17:45 G 13923640.12 13923640.24 13923640.36 0.0506 0.0378

Neptune 33409-08-22 08:53 G 13923679.74 13923679.87 13923680.00 0.0088 0.0024

Jupiter 33409-10-12 02:38 G 13923730.52 13923730.61 13923730.71 0.0508 0.0423

Neptune 33409-11-18 10:19 G 13923767.80 13923767.93 13923768.06 0.0088 0.0031

Neptune 33410-02-14 11:45 G 13923855.87 13923855.99 13923856.11 0.0088 0.0039

Moon 33410-05-11 12:57 G 13923941.93 13923942.04 13923942.15 0.2656 0.0205

Earth 33410-05-11 13:41 G 13923941.96 13923942.07 13923942.18 0.2656 0.0254 *

Neptune 33410-05-13 12:57 G 13923943.93 13923944.04 13923944.16 0.0088 0.0046

Saturn 33410-08-08 18:29 G 13924031.22 13924031.27 13924031.33 0.0267 0.0241

Neptune 33410-08-09 14:24 G 13924032.00 13924032.10 13924032.22 0.0088 0.0054

Saturn 33410-11-05 04:48 G 13924119.59 13924119.70 13924119.82 0.0266 0.0137

Neptune 33410-11-05 15:50 G 13924120.07 13924120.16 13924120.27 0.0088 0.0061

Saturn 33411-02-01 15:21 G 13924208.00 13924208.14 13924208.27 0.0266 0.0032

Neptune 33411-02-01 17:17 G 13924208.14 13924208.22 13924208.31 0.0088 0.0068 *

Neptune 33411-04-30 18:43 G 13924296.22 13924296.28 13924296.36 0.0088 0.0076

Saturn 33411-05-01 01:41 G 13924296.44 13924296.57 13924296.70 0.0265 0.0074

Neptune 33411-07-27 19:55 G 13924384.30 13924384.33 13924384.39 0.0088 0.0084

Saturn 33411-07-28 12:14 G 13924384.91 13924385.01 13924385.11 0.0264 0.0180

Jupiter 33415-03-05 17:17 G 13925701.12 13925701.22 13925701.32 0.0521 0.0322

Jupiter 33415-06-02 23:02 G 13925790.35 13925790.46 13925790.57 0.0518 0.0271

Mars 33417-05-08 20:38 G 13926496.32 13926496.36 13926496.41 0.1839 0.1659

Venus 33420-01-02 18:29 G 13927465.22 13927465.27 13927465.33 0.3684 0.3079

Moon 33420-11-06 12:14 G 13927773.97 13927774.01 13927774.05 0.2682 0.2594

Earth 33420-11-06 12:14 G 13927773.98 13927774.01 13927774.04 0.2675 0.2618 *

Jupiter 33421-07-31 00:14 G 13928040.35 13928040.51 13928040.67 0.0507 0.0225

Moon 33423-05-14 06:43 G 13928692.69 13928692.78 13928692.87 0.2661 0.1468

Earth 33423-05-14 07:12 G 13928692.71 13928692.80 13928692.88 0.2656 0.1586 *

Venus 33425-07-18 11:31 G 13929488.88 13929488.98 13929489.09 0.3683 0.1209

Mars 33425-12-04 10:48 G 13929627.89 13929627.95 13929628.02 0.1695 0.1520

Saturn 33426-08-23 09:36 G 13929889.75 13929889.90 13929890.06 0.0296 0.0140

Mars 33426-09-29 04:48 G 13929926.59 13929926.70 13929926.82 0.1847 0.0476

Saturn 33426-11-20 09:50 G 13929978.73 13929978.91 13929979.09 0.0297 0.0060

Jupiter 33426-12-22 21:36 G 13930011.35 13930011.40 13930011.46 0.0522 0.0467

Saturn 33427-02-17 09:36 G 13930067.81 13930067.90 13930067.99 0.0297 0.0258

Jupiter 33427-03-22 03:21 G 13930100.51 13930100.64 13930100.77 0.0519 0.0126

Venus 33429-07-19 04:05 G 13930950.54 13930950.67 13930950.81 0.3688 0.0814

Moon 33430-05-07 07:26 G 13931242.74 13931242.81 13931242.88 0.2649 0.2090

Earth 33430-05-07 07:26 G 13931242.75 13931242.81 13931242.88 0.2656 0.2116 *

Venus 33431-02-01 04:48 G 13931512.59 13931512.70 13931512.81 0.3683 0.0739

Uranus 33431-03-21 00:43 G 13931560.53 13931560.53 13931560.54 0.0134 0.0134

Uranus 33431-06-17 07:26 G 13931648.71 13931648.81 13931648.91 0.0134 0.0110

Uranus 33431-09-13 13:55 G 13931736.94 13931737.08 13931737.23 0.0134 0.0086

Uranus 33431-12-10 20:24 G 13931825.19 13931825.35 13931825.52 0.0134 0.0062

Uranus 33432-03-08 03:07 G 13931913.45 13931913.63 13931913.81 0.0134 0.0037

Uranus 33432-06-04 09:36 G 13932001.72 13932001.90 13932002.08 0.0134 0.0014

Uranus 33432-08-31 15:50 G 13932089.98 13932090.16 13932090.35 0.0134 0.0011

Uranus 33432-11-27 22:05 G 13932178.25 13932178.42 13932178.61 0.0134 0.0034

Uranus 33433-02-24 04:33 G 13932266.53 13932266.69 13932266.86 0.0134 0.0057

Jupiter 33433-05-18 21:36 G 13932350.22 13932350.40 13932350.58 0.0506 0.0028

Uranus 33433-05-23 10:48 G 13932354.81 13932354.95 13932355.10 0.0134 0.0080

Uranus 33433-08-19 16:48 G 13932443.10 13932443.20 13932443.33 0.0134 0.0103

Earth 33433-11-09 19:55 G 13932525.18 13932525.33 13932525.49 0.2675 0.0403

Moon 33433-11-09 20:53 G 13932525.22 13932525.37 13932525.53 0.2680 0.0549 *

Uranus 33433-11-15 23:02 G 13932531.41 13932531.46 13932531.53 0.0134 0.0126

Venus 33435-02-02 06:00 G 13932974.67 13932974.75 13932974.84 0.3688 0.2826

Mars 33435-04-26 13:12 G 13933057.89 13933058.05 13933058.21 0.1689 0.0182

Mars 33436-02-19 12:57 G 13933356.93 13933357.04 13933357.15 0.1855 0.0724

Venus 33436-08-16 22:19 G 13933536.36 13933536.43 13933536.50 0.3682 0.2729

Pluto 33437-12-01 06:00 G 13934007.72 13934007.75 13934007.84 0.0075 0.0071

Pluto 33438-02-27 08:53 G 13934095.75 13934095.87 13934096.03 0.0075 0.0052

Pluto 33438-05-26 11:45 G 13934183.82 13934183.99 13934184.18 0.0075 0.0033

Pluto 33438-08-22 14:24 G 13934271.91 13934272.10 13934272.30 0.0074 0.0014

Pluto 33438-11-18 17:17 G 13934360.02 13934360.22 13934360.42 0.0074 0.0005

Jupiter 33439-01-08 07:55 G 13934410.70 13934410.83 13934410.96 0.0520 0.0020

Pluto 33439-02-14 19:26 G 13934448.14 13934448.31 13934448.52 0.0074 0.0024

Pluto 33439-05-13 22:05 G 13934536.27 13934536.42 13934536.60 0.0074 0.0042

Pluto 33439-08-10 00:57 G 13934624.42 13934624.54 13934624.66 0.0074 0.0059

Saturn 33440-03-24 06:57 G 13934851.69 13934851.79 13934851.89 0.0266 0.0172

Saturn 33440-06-20 17:02 G 13934940.09 13934940.21 13934940.35 0.0265 0.0068

Saturn 33440-09-17 03:36 G 13935028.51 13935028.65 13935028.78 0.0265 0.0037

Saturn 33440-12-14 13:55 G 13935116.97 13935117.08 13935117.20 0.0264 0.0143

Saturn 33441-03-13 00:29 G 13935205.48 13935205.52 13935205.57 0.0264 0.0248

Moon 33443-05-10 00:29 G 13935993.41 13935993.52 13935993.62 0.2653 0.0901

Earth 33443-05-10 00:57 G 13935993.44 13935993.54 13935993.64 0.2656 0.0805 *

Mars 33444-09-15 15:21 G 13936488.03 13936488.14 13936488.26 0.1682 0.1153

Jupiter 33445-03-06 18:43 G 13936660.11 13936660.28 13936660.46 0.0506 0.0174

Jupiter 33450-10-27 12:43 G 13938720.90 13938721.03 13938721.15 0.0521 0.0153

Jupiter 33451-01-24 18:29 G 13938810.21 13938810.27 13938810.34 0.0518 0.0444

Saturn 33456-01-10 04:19 G 13940621.57 13940621.68 13940621.80 0.0295 0.0226

Saturn 33456-04-08 04:33 G 13940710.51 13940710.69 13940710.87 0.0296 0.0026

Moon 33456-05-11 17:45 G 13940744.13 13940744.24 13940744.35 0.2657 0.0391

Earth 33456-05-11 18:29 G 13940744.16 13940744.27 13940744.37 0.2656 0.0528 *

Saturn 33456-07-06 04:33 G 13940799.55 13940799.69 13940799.83 0.0297 0.0173

Mars 33456-11-06 20:53 G 13940923.35 13940923.37 13940923.38 0.1839 0.1812

Jupiter 33456-12-23 16:48 G 13940970.08 13940970.20 13940970.33 0.0506 0.0363

Jupiter 33457-03-24 01:41 G 13941060.49 13941060.57 13941060.66 0.0508 0.0438

Jupiter 33462-08-15 16:33 G 13943031.08 13943031.19 13943031.29 0.0521 0.0307

Jupiter 33462-11-12 22:19 G 13943120.32 13943120.43 13943120.53 0.0518 0.0286

Mars 33466-03-30 05:02 G 13944353.59 13944353.71 13944353.82 0.1847 0.0628

Earth 33466-11-07 18:57 G 13944576.19 13944576.29 13944576.39 0.2675 0.2041

Moon 33466-11-07 18:57 G 13944576.20 13944576.29 13944576.39 0.2682 0.2107 *

Jupiter 33469-01-10 00:00 G 13945370.34 13945370.50 13945370.65 0.0508 0.0251

Moon 33469-05-14 11:31 G 13945494.90 13945494.98 13945495.06 0.2662 0.1864

Earth 33469-05-14 11:45 G 13945494.92 13945494.99 13945495.07 0.2656 0.1863 *

Saturn 33469-08-11 09:07 G 13945583.80 13945583.88 13945583.96 0.0267 0.0209

Saturn 33469-11-07 19:26 G 13945672.18 13945672.31 13945672.43 0.0266 0.0103

Saturn 33470-02-04 05:45 G 13945760.60 13945760.74 13945760.88 0.0266 0.0002

Saturn 33470-05-03 16:05 G 13945849.05 13945849.17 13945849.30 0.0265 0.0108

Saturn 33470-07-31 02:38 G 13945937.54 13945937.61 13945937.69 0.0264 0.0214

Jupiter 33474-06-03 20:53 G 13947341.31 13947341.37 13947341.43 0.0521 0.0453

Uranus 33474-06-05 15:07 G 13947343.08 13947343.13 13947343.19 0.0144 0.0128

Jupiter 33474-09-01 02:24 G 13947430.48 13947430.60 13947430.73 0.0519 0.0138

Uranus 33474-09-01 18:57 G 13947431.21 13947431.29 13947431.38 0.0144 0.0107

Mars 33474-10-25 13:55 G 13947484.92 13947485.08 13947485.23 0.1689 0.0385

Uranus 33474-11-28 22:48 G 13947519.35 13947519.45 13947519.56 0.0144 0.0086

Uranus 33475-02-25 02:38 G 13947607.49 13947607.61 13947607.74 0.0144 0.0064

Uranus 33475-05-24 06:29 G 13947695.65 13947695.77 13947695.91 0.0144 0.0043

Uranus 33475-08-20 10:33 G 13947783.80 13947783.94 13947784.07 0.0144 0.0021

Mars 33475-08-20 12:57 G 13947783.93 13947784.04 13947784.16 0.1854 0.0574 *

Uranus 33475-11-16 14:24 G 13947871.97 13947872.10 13947872.24 0.0144 0.0004

Uranus 33476-02-12 18:29 G 13947960.13 13947960.27 13947960.40 0.0144 0.0024

Moon 33476-05-07 12:14 G 13948044.93 13948045.01 13948045.08 0.2650 0.1904

Earth 33476-05-07 12:14 G 13948044.94 13948045.01 13948045.09 0.2656 0.1848 *

Uranus 33476-05-10 22:19 G 13948048.31 13948048.43 13948048.57 0.0144 0.0046

Uranus 33476-08-07 02:24 G 13948136.48 13948136.60 13948136.72 0.0144 0.0068

Venus 33476-08-08 16:19 G 13948138.10 13948138.18 13948138.26 0.3684 0.2425

Uranus 33476-11-03 06:29 G 13948224.67 13948224.77 13948224.88 0.0145 0.0091

Uranus 33477-01-30 10:19 G 13948312.86 13948312.93 13948313.03 0.0145 0.0114

Uranus 33477-04-28 14:24 G 13948401.07 13948401.10 13948401.16 0.0145 0.0137

Earth 33479-11-11 02:38 G 13949327.47 13949327.61 13949327.76 0.2675 0.0969

Moon 33479-11-11 04:05 G 13949327.53 13949327.67 13949327.81 0.2680 0.1147 *

Venus 33480-08-09 02:09 G 13949599.53 13949599.59 13949599.64 0.3687 0.3367

Jupiter 33480-10-28 21:21 G 13949680.21 13949680.39 13949680.57 0.0507 0.0053

Venus 33482-02-22 09:36 G 13950161.79 13950161.90 13950162.00 0.3683 0.0553

Mars 33484-03-16 15:50 G 13950915.03 13950915.16 13950915.29 0.1682 0.0963

Mars 33485-01-09 21:07 G 13951214.35 13951214.38 13951214.42 0.1862 0.1770

Saturn 33485-05-29 01:41 G 13951353.55 13951353.57 13951353.59 0.0295 0.0293

Saturn 33485-08-26 02:09 G 13951442.42 13951442.59 13951442.76 0.0296 0.0092

Saturn 33485-11-23 02:09 G 13951531.42 13951531.59 13951531.76 0.0297 0.0108

Venus 33486-02-23 04:33 G 13951623.55 13951623.69 13951623.82 0.3688 0.0456

Jupiter 33486-06-20 06:43 G 13951740.65 13951740.78 13951740.91 0.0520 0.0008

Venus 33487-09-08 02:53 G 13952185.51 13952185.62 13952185.72 0.3682 0.1438

Moon 33489-05-10 05:02 G 13952795.60 13952795.71 13952795.82 0.2654 0.0598

Earth 33489-05-10 05:45 G 13952795.63 13952795.74 13952795.84 0.2656 0.0536 *

Neptune 33490-03-21 21:21 G 13953111.39 13953111.39 13953111.42 0.0089 0.0089

Neptune 33490-06-18 00:57 G 13953199.46 13953199.54 13953199.64 0.0089 0.0078

Neptune 33490-09-14 04:05 G 13953287.57 13953287.67 13953287.81 0.0089 0.0068

Neptune 33490-12-11 07:55 G 13953375.69 13953375.83 13953375.97 0.0089 0.0057

Neptune 33491-03-09 11:02 G 13953463.81 13953463.96 13953464.13 0.0089 0.0047

Neptune 33491-06-05 14:24 G 13953551.94 13953552.10 13953552.28 0.0089 0.0037

Neptune 33491-09-01 18:00 G 13953640.07 13953640.25 13953640.43 0.0089 0.0026

Neptune 33491-11-28 21:21 G 13953728.20 13953728.39 13953728.57 0.0089 0.0016

Neptune 33492-02-25 00:43 G 13953816.34 13953816.53 13953816.72 0.0089 0.0006

Neptune 33492-05-23 03:50 G 13953904.48 13953904.66 13953904.85 0.0089 0.0005

Jupiter 33492-08-16 18:29 G 13953990.10 13953990.27 13953990.45 0.0506 0.0148

Neptune 33492-08-19 07:12 G 13953992.62 13953992.80 13953992.99 0.0089 0.0015

Neptune 33492-11-15 10:19 G 13954080.76 13954080.93 13954081.12 0.0089 0.0025

Neptune 33493-02-11 13:41 G 13954168.91 13954169.07 13954169.25 0.0089 0.0035

Venus 33493-03-23 20:09 G 13954209.30 13954209.34 13954209.38 0.3682 0.3436

Neptune 33493-05-10 17:02 G 13954257.06 13954257.21 13954257.38 0.0089 0.0045

Neptune 33493-08-06 20:09 G 13954345.21 13954345.34 13954345.50 0.0089 0.0055

Neptune 33493-11-02 23:31 G 13954433.36 13954433.48 13954433.61 0.0089 0.0065

Neptune 33494-01-30 02:38 G 13954521.53 13954521.61 13954521.72 0.0089 0.0075

Neptune 33494-04-28 06:00 G 13954609.71 13954609.75 13954609.81 0.0089 0.0085

Jupiter 33498-04-08 11:17 G 13956050.85 13956050.97 13956051.10 0.0521 0.0148

Jupiter 33498-07-06 17:17 G 13956140.16 13956140.22 13956140.28 0.0518 0.0448

Saturn 33498-12-29 11:17 G 13956315.92 13956315.97 13956316.02 0.0267 0.0243

Saturn 33499-03-27 21:21 G 13956404.28 13956404.39 13956404.51 0.0266 0.0139

Saturn 33499-06-24 07:55 G 13956492.69 13956492.83 13956492.96 0.0265 0.0033

Saturn 33499-09-20 18:14 G 13956581.13 13956581.26 13956581.39 0.0265 0.0073

Saturn 33499-12-18 04:48 G 13956669.60 13956669.70 13956669.80 0.0264 0.0178

Moon 33502-05-13 22:33 G 13957546.33 13957546.44 13957546.54 0.2658 0.0721

Earth 33502-05-13 23:17 G 13957546.36 13957546.47 13957546.57 0.2656 0.0804 *

Jupiter 33504-06-05 15:36 G 13958300.02 13958300.15 13958300.28 0.0505 0.0349

Jupiter 33504-09-04 00:29 G 13958390.44 13958390.52 13958390.60 0.0508 0.0450

Mars 33505-09-29 04:48 G 13958780.60 13958780.70 13958780.81 0.1847 0.0768

Jupiter 33510-01-26 16:05 G 13960361.06 13960361.17 13960361.27 0.0521 0.0287

Jupiter 33510-04-25 21:50 G 13960450.30 13960450.41 13960450.51 0.0519 0.0308

Earth 33512-11-09 01:41 G 13961378.44 13961378.57 13961378.71 0.2675 0.1466

Moon 33512-11-09 01:55 G 13961378.45 13961378.58 13961378.72 0.2682 0.1361 *

Mars 33514-04-26 14:09 G 13961911.94 13961912.09 13961912.24 0.1689 0.0560

Saturn 33515-01-13 21:07 G 13962174.24 13962174.38 13962174.53 0.0295 0.0175

Mars 33515-02-19 13:12 G 13962210.93 13962211.05 13962211.16 0.1855 0.0426

Uranus 33515-04-11 08:53 G 13962261.80 13962261.87 13962261.93 0.0134 0.0125

Saturn 33515-04-12 21:21 G 13962263.21 13962263.39 13962263.57 0.0296 0.0026

Moon 33515-05-16 16:19 G 13962297.11 13962297.18 13962297.25 0.2663 0.2060

Earth 33515-05-16 16:33 G 13962297.13 13962297.19 13962297.26 0.2656 0.2140 *

Uranus 33515-07-08 15:21 G 13962350.02 13962350.14 13962350.27 0.0134 0.0100

Saturn 33515-07-10 21:07 G 13962352.27 13962352.38 13962352.50 0.0297 0.0224

Uranus 33515-10-04 21:50 G 13962438.27 13962438.41 13962438.57 0.0134 0.0076

Uranus 33516-01-01 04:19 G 13962526.52 13962526.68 13962526.86 0.0134 0.0053

Uranus 33516-03-29 11:02 G 13962614.78 13962614.96 13962615.14 0.0134 0.0028

Jupiter 33516-06-22 22:48 G 13962700.30 13962700.45 13962700.60 0.0507 0.0264

Uranus 33516-06-25 17:31 G 13962703.05 13962703.23 13962703.42 0.0134 0.0004

Uranus 33516-09-22 00:00 G 13962791.32 13962791.50 13962791.68 0.0134 0.0019

Uranus 33516-12-19 06:14 G 13962879.59 13962879.76 13962879.94 0.0134 0.0043

Uranus 33517-03-17 12:29 G 13962967.87 13962968.02 13962968.18 0.0134 0.0066

Uranus 33517-06-13 18:43 G 13963056.15 13963056.28 13963056.42 0.0134 0.0089

Uranus 33517-09-10 00:57 G 13963144.45 13963144.54 13963144.64 0.0134 0.0112

Jupiter 33521-11-14 19:55 G 13964671.27 13964671.33 13964671.40 0.0521 0.0439

Jupiter 33522-02-12 01:41 G 13964760.44 13964760.57 13964760.69 0.0519 0.0153

Moon 33522-05-09 16:48 G 13964847.11 13964847.20 13964847.29 0.2650 0.1562

Earth 33522-05-09 17:02 G 13964847.13 13964847.21 13964847.30 0.2656 0.1577 *

Mars 33523-09-16 16:33 G 13965342.05 13965342.19 13965342.33 0.1682 0.0773

Mars 33524-07-11 21:21 G 13965641.33 13965641.39 13965641.44 0.1862 0.1621

Earth 33525-11-12 09:21 G 13966129.76 13966129.89 13966130.02 0.2675 0.1524

Moon 33525-11-12 10:48 G 13966129.83 13966129.95 13966130.07 0.2680 0.1668 *

Venus 33527-08-31 21:21 G 13966787.37 13966787.39 13966787.40 0.3684 0.3627

Jupiter 33528-04-10 20:38 G 13967010.18 13967010.36 13967010.54 0.0507 0.0073

Saturn 33528-08-14 23:31 G 13967136.39 13967136.48 13967136.59 0.0267 0.0175

Saturn 33528-11-11 10:05 G 13967224.79 13967224.92 13967225.05 0.0266 0.0069

Saturn 33529-02-07 20:24 G 13967313.22 13967313.35 13967313.49 0.0266 0.0037

Saturn 33529-05-07 06:57 G 13967401.67 13967401.79 13967401.90 0.0265 0.0143

Saturn 33529-08-03 17:17 G 13967490.19 13967490.22 13967490.27 0.0264 0.0250

Venus 33533-03-16 14:09 G 13968811.00 13968811.09 13968811.19 0.3683 0.1770

Jupiter 33533-12-01 05:45 G 13969070.61 13969070.74 13969070.87 0.0519 0.0011

Moon 33535-05-12 09:50 G 13969597.80 13969597.91 13969598.02 0.2654 0.0396

Earth 33535-05-12 10:33 G 13969597.83 13969597.94 13969598.05 0.2656 0.0268 *

Venus 33537-03-17 02:24 G 13970272.49 13970272.60 13970272.72 0.3687 0.2082

Venus 33538-09-30 07:26 G 13970834.70 13970834.81 13970834.92 0.3683 0.0191

Jupiter 33540-01-28 18:00 G 13971320.07 13971320.25 13971320.42 0.0506 0.0126

Venus 33542-10-01 04:33 G 13972296.57 13972296.69 13972296.81 0.3688 0.1648

Venus 33544-04-15 00:43 G 13972858.44 13972858.53 13972858.62 0.3682 0.2126

Saturn 33544-06-01 19:12 G 13972906.19 13972906.30 13972906.41 0.0295 0.0236

Saturn 33544-08-29 19:26 G 13972995.13 13972995.31 13972995.49 0.0296 0.0036

Saturn 33544-11-26 19:26 G 13973084.16 13973084.31 13973084.45 0.0297 0.0163

Mars 33545-03-30 05:02 G 13973207.60 13973207.71 13973207.81 0.1847 0.0919

Jupiter 33545-09-19 10:05 G 13973380.80 13973380.92 13973381.04 0.0520 0.0143

Jupiter 33545-12-17 15:50 G 13973470.10 13973470.16 13973470.23 0.0518 0.0453

Moon 33548-05-14 03:21 G 13974348.54 13974348.64 13974348.74 0.2660 0.1000

Earth 33548-05-14 03:50 G 13974348.56 13974348.66 13974348.76 0.2656 0.1070 *

Jupiter 33551-11-16 15:07 G 13975629.99 13975630.13 13975630.27 0.0506 0.0326

Jupiter 33552-02-15 00:00 G 13975720.44 13975720.50 13975720.57 0.0508 0.0473

Mars 33553-10-25 14:53 G 13976338.98 13976339.12 13976339.26 0.1689 0.0762

Mars 33554-08-20 12:57 G 13976637.93 13976638.04 13976638.16 0.1854 0.0285

Moon 33555-05-08 04:33 G 13976898.66 13976898.69 13976898.72 0.2649 0.2524

Earth 33555-05-08 04:33 G 13976898.67 13976898.69 13976898.70 0.2656 0.2609 *

Jupiter 33557-07-08 14:38 G 13977691.00 13977691.11 13977691.22 0.0521 0.0285

Jupiter 33557-10-05 20:24 G 13977780.25 13977780.35 13977780.46 0.0519 0.0311

Saturn 33558-01-02 01:55 G 13977868.50 13977868.58 13977868.67 0.0267 0.0207

Uranus 33558-03-30 18:57 G 13977956.28 13977956.29 13977956.31 0.0144 0.0142

Saturn 33558-03-31 12:14 G 13977956.89 13977957.01 13977957.14 0.0266 0.0102

Uranus 33558-06-26 22:33 G 13978044.38 13978044.44 13978044.52 0.0144 0.0122

Saturn 33558-06-27 22:48 G 13978045.31 13978045.45 13978045.58 0.0265 0.0006

Uranus 33558-09-23 02:38 G 13978132.52 13978132.61 13978132.71 0.0144 0.0100

Saturn 33558-09-24 09:07 G 13978133.76 13978133.88 13978134.01 0.0265 0.0110

Earth 33558-11-10 08:24 G 13978180.70 13978180.85 13978181.00 0.2675 0.0889

Moon 33558-11-10 09:07 G 13978180.74 13978180.88 13978181.03 0.2681 0.0904 *

Uranus 33558-12-20 06:29 G 13978220.66 13978220.77 13978220.88 0.0144 0.0079

Saturn 33558-12-21 19:41 G 13978222.24 13978222.32 13978222.40 0.0264 0.0216

Uranus 33559-03-18 10:19 G 13978308.81 13978308.93 13978309.06 0.0144 0.0057

Uranus 33559-06-14 14:09 G 13978396.96 13978397.09 13978397.23 0.0144 0.0036

Uranus 33559-09-10 18:14 G 13978485.12 13978485.26 13978485.39 0.0144 0.0014

Uranus 33559-12-07 22:05 G 13978573.28 13978573.42 13978573.56 0.0144 0.0008

Uranus 33560-03-05 01:55 G 13978661.45 13978661.58 13978661.72 0.0144 0.0031

Uranus 33560-06-01 06:00 G 13978749.62 13978749.75 13978749.88 0.0144 0.0053

Uranus 33560-08-28 09:50 G 13978837.80 13978837.91 13978838.04 0.0144 0.0076

Uranus 33560-11-24 14:09 G 13978925.99 13978926.09 13978926.19 0.0145 0.0098

Uranus 33561-02-20 18:00 G 13979014.18 13979014.25 13979014.33 0.0145 0.0121

Moon 33561-05-16 21:07 G 13979099.34 13979099.38 13979099.43 0.2662 0.2413

Earth 33561-05-16 21:21 G 13979099.35 13979099.39 13979099.44 0.2656 0.2417 *

Uranus 33561-05-19 22:05 G 13979102.41 13979102.42 13979102.44 0.0145 0.0144

Mars 33563-03-17 17:02 G 13979769.06 13979769.21 13979769.36 0.1682 0.0576

Jupiter 33563-12-03 21:21 G 13980030.24 13980030.39 13980030.54 0.0507 0.0273

Mars 33564-01-10 21:07 G 13980068.31 13980068.38 13980068.45 0.1862 0.1485

Moon 33568-05-09 21:21 G 13981649.30 13981649.39 13981649.48 0.2651 0.1423

Earth 33568-05-09 21:50 G 13981649.32 13981649.41 13981649.51 0.2656 0.1304 *

Jupiter 33569-04-26 19:12 G 13982001.23 13982001.30 13982001.38 0.0522 0.0424

Jupiter 33569-07-25 00:57 G 13982090.42 13982090.54 13982090.66 0.0519 0.0170

Neptune 33570-10-07 11:17 G 13982529.93 13982529.97 13982530.02 0.0089 0.0083

Neptune 33571-01-03 12:29 G 13982617.96 13982618.02 13982618.10 0.0089 0.0076

Neptune 33571-04-01 13:55 G 13982706.00 13982706.08 13982706.17 0.0088 0.0069

Neptune 33571-06-28 15:07 G 13982794.05 13982794.13 13982794.24 0.0088 0.0062

Neptune 33571-09-24 16:33 G 13982882.09 13982882.19 13982882.31 0.0088 0.0055

Earth 33571-11-13 16:05 G 13982932.07 13982932.17 13982932.27 0.2675 0.2086

Moon 33571-11-13 17:31 G 13982932.15 13982932.23 13982932.30 0.2680 0.2331 *

Neptune 33571-12-21 18:00 G 13982970.14 13982970.25 13982970.37 0.0088 0.0047

Neptune 33572-03-18 19:26 G 13983058.19 13983058.31 13983058.43 0.0088 0.0040

Neptune 33572-06-14 20:53 G 13983146.25 13983146.37 13983146.50 0.0088 0.0033

Neptune 33572-09-10 22:19 G 13983234.30 13983234.43 13983234.56 0.0088 0.0025

Neptune 33572-12-07 23:31 G 13983322.35 13983322.48 13983322.62 0.0088 0.0019

Neptune 33573-03-06 00:57 G 13983410.41 13983410.54 13983410.68 0.0088 0.0011

Neptune 33573-06-02 02:24 G 13983498.47 13983498.60 13983498.74 0.0088 0.0004

Neptune 33573-08-29 03:50 G 13983586.53 13983586.66 13983586.80 0.0088 0.0004

Neptune 33573-11-25 05:17 G 13983674.59 13983674.72 13983674.86 0.0088 0.0011

Saturn 33574-01-16 14:53 G 13983726.96 13983727.12 13983727.29 0.0295 0.0116

Neptune 33574-02-21 06:43 G 13983762.65 13983762.78 13983762.91 0.0088 0.0018

Saturn 33574-04-15 14:53 G 13983815.95 13983816.12 13983816.30 0.0296 0.0084

Neptune 33574-05-20 08:09 G 13983850.71 13983850.84 13983850.97 0.0088 0.0026

Saturn 33574-07-13 14:38 G 13983905.06 13983905.11 13983905.17 0.0297 0.0281

Neptune 33574-08-16 09:21 G 13983938.77 13983938.89 13983939.02 0.0088 0.0033

Neptune 33574-11-12 10:48 G 13984026.83 13984026.95 13984027.08 0.0088 0.0041

Neptune 33575-02-08 12:14 G 13984114.90 13984115.01 13984115.13 0.0088 0.0048

Neptune 33575-05-07 13:41 G 13984202.97 13984203.07 13984203.18 0.0088 0.0055

Neptune 33575-08-03 15:07 G 13984291.04 13984291.13 13984291.23 0.0088 0.0063

Jupiter 33575-09-21 19:26 G 13984340.13 13984340.31 13984340.48 0.0507 0.0084

Neptune 33575-10-30 16:19 G 13984379.11 13984379.18 13984379.28 0.0088 0.0070

Neptune 33576-01-26 17:45 G 13984467.19 13984467.24 13984467.32 0.0088 0.0078

Neptune 33576-04-23 19:26 G 13984555.28 13984555.31 13984555.35 0.0088 0.0085

Moon 33581-05-12 14:38 G 13986400.00 13986400.11 13986400.22 0.2654 0.0058

Earth 33581-05-12 15:21 G 13986400.03 13986400.14 13986400.25 0.2656 0.0090 *

Jupiter 33581-05-13 04:48 G 13986400.57 13986400.70 13986400.83 0.0519 0.0022

Venus 33584-04-06 18:57 G 13987460.23 13987460.29 13987460.35 0.3684 0.2986

Mars 33584-09-28 05:02 G 13987634.61 13987634.71 13987634.81 0.1846 0.1077

Saturn 33587-05-22 04:19 G 13988600.63 13988600.68 13988600.73 0.0268 0.0243

Jupiter 33587-07-10 16:48 G 13988650.03 13988650.20 13988650.38 0.0507 0.0112

Saturn 33587-08-18 14:38 G 13988689.00 13988689.11 13988689.22 0.0267 0.0137

Saturn 33587-11-15 00:57 G 13988777.41 13988777.54 13988777.68 0.0266 0.0031

Saturn 33588-02-11 11:17 G 13988865.85 13988865.97 13988866.11 0.0266 0.0076

Saturn 33588-05-09 21:50 G 13988954.32 13988954.41 13988954.51 0.0265 0.0182

Venus 33589-10-21 12:00 G 13989483.90 13989484.00 13989484.11 0.3683 0.1101

Jupiter 33593-03-01 09:07 G 13990710.76 13990710.88 13990711.00 0.0520 0.0132

Mars 33593-04-25 15:21 G 13990766.01 13990766.14 13990766.27 0.1689 0.0956

Jupiter 33593-05-29 14:53 G 13990800.07 13990800.12 13990800.18 0.0517 0.0462

Venus 33593-10-22 02:38 G 13990945.48 13990945.61 13990945.75 0.3688 0.0827

Mars 33594-02-18 12:57 G 13991064.92 13991065.04 13991065.16 0.1854 0.0147

Moon 33594-05-15 08:09 G 13991150.75 13991150.84 13991150.94 0.2661 0.1239

Earth 33594-05-15 08:38 G 13991150.77 13991150.86 13991150.96 0.2656 0.1347 *

Venus 33595-05-07 05:17 G 13991507.61 13991507.72 13991507.83 0.3682 0.0844

Pluto 33597-12-18 14:38 G 13992464.06 13992464.11 13992464.17 0.0069 0.0063

Pluto 33598-03-16 15:07 G 13992552.06 13992552.13 13992552.22 0.0070 0.0053

Pluto 33598-06-12 15:50 G 13992640.06 13992640.16 13992640.26 0.0070 0.0043

Pluto 33598-09-08 16:19 G 13992728.07 13992728.18 13992728.30 0.0070 0.0033

Pluto 33598-12-05 16:48 G 13992816.08 13992816.20 13992816.33 0.0070 0.0023

Pluto 33599-03-03 17:31 G 13992904.10 13992904.23 13992904.36 0.0070 0.0013

Jupiter 33599-04-28 13:55 G 13992959.94 13992960.08 13992960.23 0.0506 0.0312

Uranus 33599-05-01 16:05 G 13992963.09 13992963.17 13992963.27 0.0134 0.0117

Venus 33599-05-08 04:48 G 13992969.61 13992969.70 13992969.78 0.3688 0.2867

Pluto 33599-05-30 18:00 G 13992992.12 13992992.25 13992992.38 0.0070 0.0003

Jupiter 33599-07-27 23:02 G 13993050.42 13993050.46 13993050.51 0.0508 0.0489

Uranus 33599-07-28 23:02 G 13993051.33 13993051.46 13993051.59 0.0134 0.0093

Pluto 33599-08-26 18:29 G 13993080.15 13993080.27 13993080.41 0.0070 0.0008

Uranus 33599-10-25 05:31 G 13993139.58 13993139.73 13993139.89 0.0134 0.0068

Pluto 33599-11-22 18:57 G 13993168.17 13993168.29 13993168.43 0.0070 0.0018

Uranus 33600-01-21 12:00 G 13993227.83 13993228.00 13993228.18 0.0134 0.0044

Pluto 33600-02-18 19:26 G 13993256.20 13993256.31 13993256.44 0.0070 0.0029

Uranus 33600-04-18 18:43 G 13993316.10 13993316.28 13993316.46 0.0134 0.0020

Pluto 33600-05-16 20:09 G 13993344.24 13993344.34 13993344.45 0.0071 0.0039

Uranus 33600-07-16 00:57 G 13993404.36 13993404.54 13993404.73 0.0134 0.0005

Pluto 33600-08-12 20:53 G 13993432.28 13993432.37 13993432.46 0.0071 0.0049

Uranus 33600-10-12 07:26 G 13993492.63 13993492.81 13993492.99 0.0134 0.0027

Pluto 33600-11-08 21:07 G 13993520.33 13993520.38 13993520.46 0.0071 0.0060

Venus 33600-11-19 22:33 G 13993531.37 13993531.44 13993531.51 0.3682 0.2839

Uranus 33601-01-08 13:41 G 13993580.91 13993581.07 13993581.25 0.0134 0.0051

Pluto 33601-02-04 21:50 G 13993608.41 13993608.41 13993608.43 0.0071 0.0070

Uranus 33601-04-06 19:55 G 13993669.19 13993669.33 13993669.49 0.0134 0.0074

Moon 33601-05-08 09:21 G 13993700.84 13993700.89 13993700.94 0.2649 0.2368

Earth 33601-05-08 09:21 G 13993700.84 13993700.89 13993700.94 0.2656 0.2341 *

Uranus 33601-07-04 02:09 G 13993757.48 13993757.59 13993757.72 0.0134 0.0097

Uranus 33601-09-30 08:09 G 13993845.78 13993845.84 13993845.94 0.0134 0.0120

Mars 33602-09-15 17:31 G 13994196.08 13994196.23 13994196.39 0.1682 0.0386

Saturn 33603-06-05 13:26 G 13994458.92 13994459.06 13994459.21 0.0295 0.0172

Mars 33603-07-11 21:21 G 13994495.31 13994495.39 13994495.47 0.1862 0.1328

Saturn 33603-09-02 13:41 G 13994547.89 13994548.07 13994548.25 0.0296 0.0029

Saturn 33603-11-30 13:26 G 13994636.95 13994637.06 13994637.18 0.0297 0.0227

Earth 33604-11-10 15:07 G 13994982.98 13994983.13 13994983.29 0.2675 0.0320

Moon 33604-11-10 16:05 G 13994983.02 13994983.17 13994983.33 0.2681 0.0098 *

Jupiter 33604-12-18 13:12 G 13995020.95 13995021.05 13995021.16 0.0521 0.0281

Jupiter 33605-03-17 18:57 G 13995110.19 13995110.29 13995110.39 0.0518 0.0313

Jupiter 33611-05-15 20:24 G 13997360.21 13997360.35 13997360.50 0.0507 0.0291

Moon 33614-05-11 02:09 G 13998451.49 13998451.59 13998451.69 0.2651 0.1052

Earth 33614-05-11 02:38 G 13998451.51 13998451.61 13998451.71 0.2656 0.1036 *

Jupiter 33616-10-06 17:45 G 13999331.17 13999331.24 13999331.31 0.0522 0.0424

Jupiter 33617-01-03 23:17 G 13999420.35 13999420.47 13999420.60 0.0519 0.0170

Saturn 33617-01-04 17:17 G 13999421.12 13999421.22 13999421.32 0.0267 0.0167

Saturn 33617-04-03 03:36 G 13999509.52 13999509.65 13999509.78 0.0266 0.0061

Saturn 33617-06-30 13:55 G 13999597.95 13999598.08 13999598.22 0.0265 0.0046

Saturn 33617-09-27 00:29 G 13999686.41 13999686.52 13999686.63 0.0265 0.0151

Earth 33617-11-13 22:48 G 13999734.43 13999734.45 13999734.47 0.2675 0.2645

Saturn 33617-12-24 11:02 G 13999774.94 13999774.96 13999774.99 0.0264 0.0258

Jupiter 33623-03-03 17:31 G 14001670.05 14001670.23 14001670.41 0.0507 0.0089

Mars 33624-03-29 05:02 G 14002061.62 14002061.71 14002061.80 0.1846 0.1210

Moon 33627-05-13 19:26 G 14003202.20 14003202.31 14003202.42 0.2656 0.0150

Earth 33627-05-13 19:55 G 14003202.23 14003202.33 14003202.44 0.2656 0.0302 *

Jupiter 33628-10-23 03:50 G 14003730.54 14003730.66 14003730.79 0.0520 0.0033

Saturn 33632-10-22 09:50 G 14005190.82 14005190.91 14005191.02 0.0294 0.0245

Mars 33632-10-24 15:50 G 14005193.04 14005193.16 14005193.28 0.1689 0.1138

Saturn 33633-01-19 10:19 G 14005279.75 14005279.93 14005280.11 0.0295 0.0044

Saturn 33633-04-18 10:05 G 14005368.77 14005368.92 14005369.08 0.0296 0.0155

Mars 33633-08-19 13:12 G 14005491.93 14005492.05 14005492.17 0.1854 0.0029

Jupiter 33634-12-20 15:21 G 14005979.96 14005980.14 14005980.31 0.0506 0.0105

Moon 33640-05-15 12:57 G 14007952.95 14007953.04 14007953.13 0.2661 0.1591

Earth 33640-05-15 13:26 G 14007952.98 14007953.06 14007953.15 0.2656 0.1620 *

Jupiter 33640-08-11 07:55 G 14008040.71 14008040.83 14008040.96 0.0520 0.0124

Jupiter 33640-11-08 13:55 G 14008130.03 14008130.08 14008130.13 0.0517 0.0470

Venus 33640-11-11 16:48 G 14008133.12 14008133.20 14008133.28 0.3684 0.2326

Mars 33642-03-16 18:14 G 14008623.10 14008623.26 14008623.41 0.1683 0.0193

Uranus 33642-04-20 02:09 G 14008657.56 14008657.59 14008657.63 0.0144 0.0138

Uranus 33642-07-17 05:45 G 14008745.67 14008745.74 14008745.83 0.0144 0.0117

Uranus 33642-10-13 09:36 G 14008833.81 14008833.90 14008834.01 0.0144 0.0096

Uranus 33643-01-09 13:41 G 14008921.95 14008922.07 14008922.18 0.0144 0.0074

Mars 33643-01-09 21:21 G 14008922.30 14008922.39 14008922.48 0.1861 0.1185

Uranus 33643-04-07 17:17 G 14009010.10 14009010.22 14009010.36 0.0144 0.0053

Uranus 33643-07-04 21:21 G 14009098.26 14009098.39 14009098.52 0.0144 0.0031

Uranus 33643-10-01 01:12 G 14009186.42 14009186.55 14009186.69 0.0144 0.0010

Uranus 33643-12-28 05:17 G 14009274.58 14009274.72 14009274.85 0.0144 0.0013

Uranus 33644-03-25 09:07 G 14009362.75 14009362.88 14009363.02 0.0144 0.0035

Uranus 33644-06-21 13:12 G 14009450.92 14009451.05 14009451.17 0.0144 0.0058

Uranus 33644-09-17 17:02 G 14009539.10 14009539.21 14009539.33 0.0144 0.0080

Venus 33644-11-12 00:43 G 14009594.48 14009594.53 14009594.58 0.3687 0.3395

Uranus 33644-12-14 21:07 G 14009627.29 14009627.38 14009627.48 0.0145 0.0103

Uranus 33645-03-13 00:57 G 14009715.49 14009715.54 14009715.62 0.0145 0.0126

Saturn 33646-05-24 19:26 G 14010153.23 14010153.31 14010153.40 0.0268 0.0203

Venus 33646-05-28 09:50 G 14010156.81 14010156.91 14010157.02 0.3683 0.0432

Saturn 33646-08-21 06:00 G 14010241.62 14010241.75 14010241.87 0.0267 0.0096

Jupiter 33646-10-08 12:29 G 14010289.88 14010290.02 14010290.17 0.0506 0.0304

Saturn 33646-11-17 16:19 G 14010330.05 14010330.18 14010330.32 0.0266 0.0012

Jupiter 33647-01-06 21:36 G 14010380.37 14010380.40 14010380.43 0.0509 0.0499

Saturn 33647-02-14 02:53 G 14010418.50 14010418.62 14010418.74 0.0266 0.0117

Moon 33647-05-09 13:55 G 14010503.01 14010503.08 14010503.15 0.2650 0.2058

Earth 33647-05-09 14:09 G 14010503.02 14010503.09 14010503.15 0.2656 0.2074 *

Saturn 33647-05-13 13:26 G 14010506.99 14010507.06 14010507.13 0.0265 0.0225

Venus 33650-05-29 03:07 G 14011618.49 14011618.63 14011618.77 0.3688 0.0448

Earth 33650-11-11 22:05 G 14011785.26 14011785.42 14011785.57 0.2675 0.0274

Moon 33650-11-11 23:02 G 14011785.31 14011785.46 14011785.62 0.2681 0.0297 *

Mars 33651-08-06 20:09 G 14012053.28 14012053.34 14012053.41 0.1676 0.1527

Venus 33651-12-12 03:07 G 14012180.53 14012180.63 14012180.73 0.3682 0.1543

Jupiter 33652-05-30 12:14 G 14012350.90 14012351.01 14012351.12 0.0520 0.0271

Jupiter 33652-08-27 18:00 G 14012440.15 14012440.25 14012440.35 0.0518 0.0321

Neptune 33654-12-17 19:12 G 14013282.28 14013282.30 14013282.37 0.0089 0.0086

Neptune 33655-03-15 23:02 G 14013370.37 14013370.46 14013370.56 0.0089 0.0075

Neptune 33655-06-12 02:09 G 14013458.48 14013458.59 14013458.73 0.0089 0.0065

Neptune 33655-09-08 05:31 G 14013546.60 14013546.73 14013546.89 0.0089 0.0055

Neptune 33655-12-05 09:07 G 14013634.72 14013634.88 14013635.05 0.0089 0.0044

Neptune 33656-03-02 12:29 G 14013722.85 14013723.02 14013723.20 0.0089 0.0034

Neptune 33656-05-29 15:50 G 14013810.99 14013811.16 14013811.35 0.0089 0.0024

Neptune 33656-08-25 19:12 G 14013899.12 14013899.30 14013899.49 0.0089 0.0014

Neptune 33656-11-21 22:33 G 14013987.26 14013987.44 14013987.63 0.0089 0.0004

Neptune 33657-02-18 01:55 G 14014075.40 14014075.58 14014075.77 0.0089 0.0007

Neptune 33657-05-17 05:17 G 14014163.54 14014163.72 14014163.90 0.0089 0.0017

Venus 33657-06-26 20:38 G 14014204.33 14014204.36 14014204.38 0.3682 0.3561

Neptune 33657-08-13 08:24 G 14014251.68 14014251.85 14014252.04 0.0089 0.0028

Neptune 33657-11-09 11:45 G 14014339.83 14014339.99 14014340.17 0.0089 0.0038

Neptune 33658-02-05 14:53 G 14014427.98 14014428.12 14014428.29 0.0089 0.0048

Neptune 33658-05-04 18:14 G 14014516.13 14014516.26 14014516.41 0.0089 0.0058

Neptune 33658-07-31 21:21 G 14014604.29 14014604.39 14014604.52 0.0089 0.0068

Jupiter 33658-10-25 18:57 G 14014690.15 14014690.29 14014690.44 0.0508 0.0300

Neptune 33658-10-28 00:43 G 14014692.46 14014692.53 14014692.63 0.0089 0.0078

Neptune 33659-01-24 03:50 G 14014780.65 14014780.66 14014780.70 0.0089 0.0088

Moon 33660-05-11 06:57 G 14015253.68 14015253.79 14015253.89 0.2651 0.0901

Earth 33660-05-11 07:26 G 14015253.70 14015253.81 14015253.91 0.2656 0.0766 *

Saturn 33662-06-08 09:21 G 14016011.72 14016011.89 14016012.07 0.0295 0.0095

Saturn 33662-09-05 09:21 G 14016100.73 14016100.89 14016101.06 0.0296 0.0104

Mars 33663-09-28 05:02 G 14016488.63 14016488.71 14016488.79 0.1846 0.1369

Jupiter 33664-03-18 16:19 G 14016661.11 14016661.18 14016661.25 0.0521 0.0423

Jupiter 33664-06-15 21:50 G 14016750.29 14016750.41 14016750.54 0.0519 0.0170

Jupiter 33670-08-13 16:19 G 14019000.00 14019000.18 14019000.36 0.0507 0.0100

Mars 33672-04-24 16:33 G 14019620.09 14019620.19 14019620.28 0.1690 0.1338

Mars 33673-02-17 13:12 G 14019918.93 14019919.05 14019919.16 0.1854 0.0174

Moon 33673-05-14 00:14 G 14020004.40 14020004.51 14020004.61 0.2658 0.0536

Earth 33673-05-14 00:43 G 14020004.43 14020004.53 14020004.64 0.2656 0.0561 *

Saturn 33675-10-11 22:33 G 14020885.38 14020885.44 14020885.51 0.0268 0.0229

Saturn 33676-01-08 08:53 G 14020973.75 14020973.87 14020973.99 0.0267 0.0123

Jupiter 33676-04-04 02:09 G 14021060.47 14021060.59 14021060.72 0.0520 0.0028

Saturn 33676-04-05 19:26 G 14021062.17 14021062.31 14021062.44 0.0266 0.0017

Saturn 33676-07-03 05:45 G 14021150.62 14021150.74 14021150.87 0.0265 0.0091

Saturn 33676-09-29 16:19 G 14021239.09 14021239.18 14021239.27 0.0265 0.0197

Mars 33681-09-14 18:43 G 14023050.12 14023050.28 14023050.44 0.1683 0.0006

Jupiter 33682-06-01 12:57 G 14023309.87 14023310.04 14023310.22 0.0506 0.0107

Mars 33682-07-10 21:21 G 14023349.29 14023349.39 14023349.48 0.1862 0.1041

Uranus 33683-02-22 17:17 G 14023576.21 14023576.22 14023576.24 0.0134 0.0134

Uranus 33683-05-21 23:45 G 14023664.39 14023664.49 14023664.61 0.0134 0.0109

Uranus 33683-08-18 06:14 G 14023752.63 14023752.76 14023752.92 0.0134 0.0085

Pluto 33683-10-28 19:41 G 14023824.25 14023824.32 14023824.43 0.0075 0.0067

Earth 33683-11-09 20:53 G 14023836.28 14023836.37 14023836.46 0.2675 0.2193

Moon 33683-11-09 21:07 G 14023836.29 14023836.38 14023836.47 0.2682 0.2184 *

Uranus 33683-11-14 13:12 G 14023840.89 14023841.05 14023841.21 0.0134 0.0061

Pluto 33684-01-24 22:33 G 14023912.30 14023912.44 14023912.60 0.0075 0.0048

Uranus 33684-02-10 19:41 G 14023929.15 14023929.32 14023929.50 0.0134 0.0036

Pluto 33684-04-22 01:26 G 14024000.38 14024000.56 14024000.75 0.0075 0.0029

Uranus 33684-05-09 02:09 G 14024017.41 14024017.59 14024017.78 0.0134 0.0013

Pluto 33684-07-19 04:05 G 14024088.47 14024088.67 14024088.87 0.0074 0.0010

Uranus 33684-08-05 08:38 G 14024105.68 14024105.86 14024106.04 0.0134 0.0011

Pluto 33684-10-15 06:43 G 14024176.58 14024176.78 14024176.98 0.0074 0.0008

Uranus 33684-11-01 14:53 G 14024193.95 14024194.12 14024194.30 0.0134 0.0035

Pluto 33685-01-11 09:07 G 14024264.70 14024264.88 14024265.07 0.0074 0.0027

Uranus 33685-01-28 21:21 G 14024282.23 14024282.39 14024282.56 0.0134 0.0058

Pluto 33685-04-09 11:45 G 14024352.84 14024352.99 14024353.15 0.0074 0.0045

Uranus 33685-04-27 03:36 G 14024370.51 14024370.65 14024370.80 0.0134 0.0081

Pluto 33685-07-06 13:55 G 14024441.00 14024441.08 14024441.20 0.0074 0.0064

Uranus 33685-07-24 09:50 G 14024458.80 14024458.91 14024459.03 0.0134 0.0104

Uranus 33685-10-20 15:50 G 14024547.12 14024547.16 14024547.23 0.0134 0.0127

Moon 33686-05-16 17:45 G 14024755.16 14024755.24 14024755.32 0.2661 0.1789

Earth 33686-05-16 18:14 G 14024755.19 14024755.26 14024755.34 0.2656 0.1896 *

Jupiter 33688-01-22 06:43 G 14025370.66 14025370.78 14025370.91 0.0520 0.0119

Jupiter 33688-04-20 12:43 G 14025459.98 14025460.03 14025460.07 0.0518 0.0477

Mars 33691-02-04 20:53 G 14026480.27 14026480.37 14026480.46 0.1676 0.1342

Saturn 33691-10-26 06:43 G 14026743.63 14026743.78 14026743.94 0.0295 0.0161

Venus 33691-12-03 21:36 G 14026782.38 14026782.40 14026782.43 0.3684 0.3532

Saturn 33692-01-23 06:57 G 14026832.61 14026832.79 14026832.97 0.0295 0.0039

Saturn 33692-04-21 06:29 G 14026921.68 14026921.77 14026921.89 0.0296 0.0237

Moon 33693-05-09 18:29 G 14027305.20 14027305.27 14027305.35 0.2650 0.1836

Earth 33693-05-09 18:43 G 14027305.21 14027305.28 14027305.36 0.2656 0.1802 *

Jupiter 33694-03-20 10:33 G 14027619.79 14027619.94 14027620.09 0.0506 0.0302

Jupiter 33694-06-18 19:41 G 14027710.29 14027710.32 14027710.35 0.0508 0.0499

Earth 33696-11-12 04:33 G 14028587.54 14028587.69 14028587.84 0.2675 0.0826

Moon 33696-11-12 05:45 G 14028587.60 14028587.74 14028587.88 0.2681 0.1065 *

Venus 33697-06-18 14:38 G 14028806.01 14028806.11 14028806.21 0.3683 0.1659

Jupiter 33699-11-10 11:02 G 14029680.85 14029680.96 14029681.07 0.0520 0.0267

Jupiter 33700-02-07 16:33 G 14029770.09 14029770.19 14029770.29 0.0518 0.0326

Venus 33701-06-20 00:57 G 14030267.43 14030267.54 14030267.66 0.3687 0.2093

Venus 33703-01-03 07:55 G 14030829.72 14030829.83 14030829.93 0.3683 0.0306

Mars 33703-03-30 05:02 G 14030915.65 14030915.71 14030915.78 0.1846 0.1522

Saturn 33705-03-01 01:12 G 14031617.52 14031617.55 14031617.57 0.0269 0.0263

Saturn 33705-05-28 11:17 G 14031705.87 14031705.97 14031706.09 0.0268 0.0157

Saturn 33705-08-24 21:50 G 14031794.28 14031794.41 14031794.54 0.0267 0.0049

Saturn 33705-11-21 08:24 G 14031882.71 14031882.85 14031882.98 0.0266 0.0058

Saturn 33706-02-17 18:43 G 14031971.18 14031971.28 14031971.39 0.0266 0.0166

Jupiter 33706-04-07 16:48 G 14032020.06 14032020.20 14032020.35 0.0508 0.0302

Moon 33706-05-13 11:31 G 14032055.88 14032055.98 14032056.09 0.2652 0.0538

Earth 33706-05-13 12:14 G 14032055.90 14032056.01 14032056.11 0.2656 0.0496 *

Venus 33707-01-04 03:21 G 14032291.52 14032291.64 14032291.76 0.3688 0.1697

Venus 33708-07-19 01:12 G 14032853.46 14032853.55 14032853.63 0.3682 0.2252

Jupiter 33711-08-30 15:07 G 14033991.06 14033991.13 14033991.21 0.0521 0.0415

Mars 33711-10-25 17:02 G 14034047.15 14034047.21 14034047.27 0.1690 0.1535

Jupiter 33711-11-27 20:38 G 14034080.24 14034080.36 14034080.48 0.0518 0.0176

Mars 33712-08-19 13:12 G 14034345.93 14034346.05 14034346.17 0.1854 0.0316

Jupiter 33718-01-24 14:09 G 14036329.91 14036330.09 14036330.27 0.0507 0.0101

Moon 33719-05-16 04:48 G 14036806.60 14036806.70 14036806.81 0.2659 0.0687

Earth 33719-05-16 05:31 G 14036806.63 14036806.73 14036806.84 0.2656 0.0831 *

Saturn 33721-03-15 06:43 G 14037475.66 14037475.78 14037475.92 0.0294 0.0205

Mars 33721-03-16 19:12 G 14037477.14 14037477.30 14037477.46 0.1683 0.0195

Saturn 33721-06-12 07:12 G 14037564.62 14037564.80 14037564.98 0.0295 0.0007

Saturn 33721-09-09 06:57 G 14037653.66 14037653.79 14037653.92 0.0296 0.0194

Mars 33722-01-09 21:21 G 14037776.28 14037776.39 14037776.49 0.1861 0.0893

Jupiter 33723-09-16 00:29 G 14038390.39 14038390.52 14038390.65 0.0519 0.0026

Uranus 33726-05-11 09:07 G 14039358.84 14039358.88 14039358.93 0.0144 0.0134

Uranus 33726-08-07 12:57 G 14039446.96 14039447.04 14039447.12 0.0144 0.0113

Uranus 33726-11-03 16:33 G 14039535.10 14039535.19 14039535.30 0.0144 0.0092

Uranus 33727-01-30 20:38 G 14039623.24 14039623.36 14039623.48 0.0144 0.0070

Uranus 33727-04-29 00:29 G 14039711.39 14039711.52 14039711.65 0.0144 0.0049

Uranus 33727-07-26 04:19 G 14039799.55 14039799.68 14039799.81 0.0144 0.0027

Uranus 33727-10-22 08:09 G 14039887.71 14039887.84 14039887.98 0.0144 0.0006

Uranus 33728-01-18 12:00 G 14039975.87 14039976.00 14039976.14 0.0144 0.0018

Uranus 33728-04-15 16:05 G 14040064.04 14040064.17 14040064.30 0.0144 0.0039

Uranus 33728-07-12 19:55 G 14040152.21 14040152.33 14040152.46 0.0144 0.0061

Uranus 33728-10-09 00:00 G 14040240.39 14040240.50 14040240.61 0.0144 0.0084

Uranus 33729-01-05 03:50 G 14040328.58 14040328.66 14040328.76 0.0144 0.0107

Uranus 33729-04-03 08:09 G 14040416.78 14040416.84 14040416.90 0.0145 0.0129

Earth 33729-11-11 03:36 G 14040638.52 14040638.65 14040638.78 0.2676 0.1614

Moon 33729-11-11 04:05 G 14040638.55 14040638.67 14040638.80 0.2682 0.1554 *

Jupiter 33729-11-12 11:17 G 14040639.80 14040639.97 14040640.15 0.0506 0.0101

Mars 33730-08-06 21:21 G 14040907.28 14040907.39 14040907.51 0.1676 0.1139

Moon 33732-05-17 22:48 G 14041557.39 14041557.45 14041557.51 0.2662 0.2187

Earth 33732-05-17 23:02 G 14041557.40 14041557.46 14041557.52 0.2656 0.2169 *

Saturn 33734-10-15 14:38 G 14042438.02 14042438.11 14042438.21 0.0268 0.0180

Saturn 33735-01-12 00:57 G 14042526.42 14042526.54 14042526.68 0.0267 0.0074

Neptune 33735-04-08 09:07 G 14042612.88 14042612.88 14042612.89 0.0089 0.0088

Saturn 33735-04-10 11:31 G 14042614.85 14042614.98 14042615.12 0.0266 0.0034

Jupiter 33735-07-05 04:48 G 14042700.58 14042700.70 14042700.83 0.0520 0.0126

Neptune 33735-07-05 10:19 G 14042700.89 14042700.93 14042700.99 0.0089 0.0082

Saturn 33735-07-07 22:05 G 14042703.30 14042703.42 14042703.53 0.0265 0.0141

Neptune 33735-10-01 11:45 G 14042788.93 14042788.99 14042789.07 0.0088 0.0074

Jupiter 33735-10-02 10:33 G 14042789.89 14042789.94 14042790.00 0.0518 0.0470

Saturn 33735-10-04 08:38 G 14042791.82 14042791.86 14042791.91 0.0265 0.0248

Neptune 33735-12-28 13:26 G 14042876.97 14042877.06 14042877.14 0.0088 0.0067

Neptune 33736-03-25 14:38 G 14042965.02 14042965.11 14042965.21 0.0088 0.0060

Neptune 33736-06-21 16:05 G 14043053.06 14043053.17 14043053.28 0.0088 0.0052

Neptune 33736-09-17 17:17 G 14043141.11 14043141.22 14043141.34 0.0088 0.0046

Neptune 33736-12-14 18:43 G 14043229.17 14043229.28 14043229.41 0.0088 0.0038

Neptune 33737-03-12 20:09 G 14043317.22 14043317.34 14043317.47 0.0088 0.0031

Neptune 33737-06-08 21:36 G 14043405.27 14043405.40 14043405.53 0.0088 0.0024

Neptune 33737-09-04 23:02 G 14043493.33 14043493.46 14043493.59 0.0088 0.0016

Neptune 33737-12-02 00:29 G 14043581.38 14043581.52 14043581.65 0.0088 0.0009

Neptune 33738-02-28 01:55 G 14043669.44 14043669.58 14043669.71 0.0088 0.0002

Neptune 33738-05-27 03:07 G 14043757.50 14043757.63 14043757.77 0.0088 0.0007

Neptune 33738-08-23 04:33 G 14043845.56 14043845.69 14043845.83 0.0088 0.0013

Neptune 33738-11-19 06:00 G 14043933.62 14043933.75 14043933.89 0.0088 0.0020

Neptune 33739-02-15 07:26 G 14044021.68 14044021.81 14044021.94 0.0088 0.0028

Moon 33739-05-11 23:17 G 14044107.38 14044107.47 14044107.56 0.2650 0.1584

Earth 33739-05-11 23:31 G 14044107.39 14044107.48 14044107.57 0.2656 0.1531 *

Neptune 33739-05-14 08:38 G 14044109.75 14044109.86 14044110.00 0.0088 0.0036

Neptune 33739-08-10 10:05 G 14044197.81 14044197.92 14044198.05 0.0088 0.0043

Neptune 33739-11-06 11:45 G 14044285.88 14044285.99 14044286.10 0.0088 0.0050

Neptune 33740-02-02 12:57 G 14044373.94 14044374.04 14044374.15 0.0088 0.0057

Neptune 33740-04-30 14:24 G 14044462.01 14044462.10 14044462.20 0.0088 0.0065

Neptune 33740-07-27 15:36 G 14044550.09 14044550.15 14044550.24 0.0088 0.0073

Neptune 33740-10-23 17:17 G 14044638.17 14044638.22 14044638.28 0.0088 0.0080

Neptune 33741-01-19 18:29 G 14044726.27 14044726.27 14044726.31 0.0088 0.0087

Jupiter 33741-08-31 07:55 G 14044949.69 14044949.83 14044949.97 0.0506 0.0308

Jupiter 33741-11-29 16:48 G 14045040.17 14045040.20 14045040.25 0.0508 0.0493

Mars 33742-09-28 05:02 G 14045342.66 14045342.71 14045342.76 0.1846 0.1664

Earth 33742-11-14 11:17 G 14045389.84 14045389.97 14045390.11 0.2675 0.1398

Moon 33742-11-14 12:43 G 14045389.90 14045390.03 14045390.16 0.2680 0.1497 *

Jupiter 33747-04-23 09:21 G 14047010.78 14047010.89 14047011.00 0.0521 0.0269

Jupiter 33747-07-21 15:07 G 14047100.03 14047100.13 14047100.23 0.0518 0.0325

Venus 33748-07-10 19:26 G 14047455.25 14047455.31 14047455.38 0.3684 0.2877

Saturn 33750-08-02 05:02 G 14048207.63 14048207.71 14048207.79 0.0294 0.0263

Saturn 33750-10-30 05:17 G 14048296.54 14048296.72 14048296.90 0.0295 0.0063

Saturn 33751-01-27 05:17 G 14048385.56 14048385.72 14048385.88 0.0296 0.0136

Mars 33752-02-18 13:12 G 14048772.94 14048773.05 14048773.17 0.1854 0.0469

Moon 33752-05-13 16:19 G 14048858.07 14048858.18 14048858.29 0.2654 0.0325

Earth 33752-05-13 17:02 G 14048858.10 14048858.21 14048858.31 0.2656 0.0238 *

Jupiter 33753-09-17 14:38 G 14049349.96 14049350.11 14049350.25 0.0508 0.0298

Venus 33754-01-24 12:29 G 14049478.92 14049479.02 14049479.13 0.3683 0.0983

Venus 33758-01-25 01:26 G 14050940.43 14050940.56 14050940.70 0.3687 0.0794

Jupiter 33759-02-09 13:41 G 14051320.99 14051321.07 14051321.14 0.0521 0.0415

Jupiter 33759-05-09 19:12 G 14051410.18 14051410.30 14051410.42 0.0518 0.0176

Venus 33759-08-10 05:45 G 14051502.63 14051502.74 14051502.84 0.3683 0.0968

Mars 33760-09-14 19:55 G 14051904.17 14051904.33 14051904.48 0.1683 0.0389

Mars 33761-07-10 21:21 G 14052203.28 14052203.39 14052203.50 0.1861 0.0743

Venus 33763-08-11 03:36 G 14052964.57 14052964.65 14052964.73 0.3688 0.2927

Saturn 33764-03-03 17:17 G 14053170.14 14053170.22 14053170.30 0.0268 0.0212

Saturn 33764-05-31 03:36 G 14053258.53 14053258.65 14053258.78 0.0268 0.0106

Saturn 33764-08-27 14:09 G 14053346.96 14053347.09 14053347.22 0.0267 0.0002

Saturn 33764-11-24 00:43 G 14053435.41 14053435.53 14053435.65 0.0266 0.0110

Saturn 33765-02-20 11:17 G 14053523.89 14053523.97 14053524.05 0.0266 0.0218

Venus 33765-02-22 23:02 G 14053526.40 14053526.46 14053526.52 0.3682 0.2962

Moon 33765-05-16 09:50 G 14053608.81 14053608.91 14053609.01 0.2659 0.1072

Earth 33765-05-16 10:19 G 14053608.83 14053608.93 14053609.03 0.2656 0.1109 *

Jupiter 33765-07-06 11:31 G 14053659.81 14053659.98 14053660.16 0.0507 0.0095

Uranus 33767-03-16 00:00 G 14054277.45 14054277.50 14054277.55 0.0135 0.0129

Uranus 33767-06-12 06:29 G 14054365.67 14054365.77 14054365.90 0.0134 0.0104

Uranus 33767-09-08 13:26 G 14054453.91 14054454.06 14054454.21 0.0134 0.0080

Uranus 33767-12-05 19:55 G 14054542.16 14054542.33 14054542.50 0.0134 0.0055

Uranus 33768-03-03 02:24 G 14054630.43 14054630.60 14054630.78 0.0134 0.0032

Uranus 33768-05-30 08:53 G 14054718.69 14054718.87 14054719.06 0.0134 0.0009

Uranus 33768-08-26 15:21 G 14054806.96 14054807.14 14054807.33 0.0134 0.0017

Uranus 33768-11-22 21:50 G 14054895.24 14054895.41 14054895.59 0.0134 0.0040

Uranus 33769-02-19 04:05 G 14054983.52 14054983.67 14054983.84 0.0134 0.0063

Uranus 33769-05-18 10:33 G 14055071.80 14055071.94 14055072.08 0.0134 0.0086

Uranus 33769-08-14 16:48 G 14055160.10 14055160.20 14055160.30 0.0134 0.0109

Uranus 33769-11-10 22:48 G 14055248.43 14055248.45 14055248.48 0.0134 0.0132

Mars 33770-02-04 22:05 G 14055334.29 14055334.42 14055334.55 0.1676 0.0942

Jupiter 33771-02-25 23:17 G 14055720.34 14055720.47 14055720.60 0.0519 0.0026

Moon 33772-05-09 11:02 G 14056158.94 14056158.96 14056158.98 0.2649 0.2587

Earth 33772-05-09 11:02 G 14056158.94 14056158.96 14056158.99 0.2656 0.2560 *

Earth 33775-11-12 10:19 G 14057440.78 14057440.93 14057441.08 0.2676 0.1040

Moon 33775-11-12 11:02 G 14057440.81 14057440.96 14057441.10 0.2682 0.0936 *

Jupiter 33777-04-24 08:38 G 14057969.69 14057969.86 14057970.04 0.0507 0.0108

Moon 33778-05-19 03:50 G 14058359.61 14058359.66 14058359.70 0.2662 0.2378

Earth 33778-05-19 03:50 G 14058359.62 14058359.66 14058359.70 0.2656 0.2446 *

Saturn 33780-03-18 05:45 G 14059028.57 14059028.74 14059028.91 0.0295 0.0103

Saturn 33780-06-15 05:45 G 14059117.57 14059117.74 14059117.91 0.0296 0.0096

Saturn 33780-09-12 05:17 G 14059206.70 14059206.72 14059206.75 0.0296 0.0293

Mars 33782-03-29 05:02 G 14059769.69 14059769.71 14059769.73 0.1846 0.1816

Jupiter 33782-12-15 03:07 G 14060030.50 14060030.63 14060030.75 0.0520 0.0131

Jupiter 33783-03-14 08:53 G 14060119.82 14060119.87 14060119.93 0.0518 0.0463

Moon 33785-05-12 04:05 G 14060909.57 14060909.67 14060909.76 0.2650 0.1288

Earth 33785-05-12 04:19 G 14060909.59 14060909.68 14060909.78 0.2656 0.1262 *

Earth 33788-11-14 18:00 G 14062192.15 14062192.25 14062192.36 0.2676 0.1957

Moon 33788-11-14 19:41 G 14062192.23 14062192.32 14062192.41 0.2678 0.2179 *

Jupiter 33789-02-10 05:45 G 14062279.60 14062279.74 14062279.89 0.0506 0.0309

Jupiter 33789-05-11 14:53 G 14062370.08 14062370.12 14062370.16 0.0508 0.0493

Mars 33791-08-19 13:12 G 14063199.94 14063200.05 14063200.16 0.1853 0.0611

Saturn 33793-07-21 20:53 G 14063902.31 14063902.37 14063902.43 0.0268 0.0233

Saturn 33793-10-18 07:12 G 14063990.69 14063990.80 14063990.92 0.0267 0.0127

Saturn 33794-01-14 17:45 G 14064079.10 14064079.24 14064079.37 0.0267 0.0020

Saturn 33794-04-13 04:05 G 14064167.55 14064167.67 14064167.80 0.0266 0.0089

Saturn 33794-07-10 14:38 G 14064256.02 14064256.11 14064256.21 0.0265 0.0196

Jupiter 33794-10-03 07:12 G 14064340.70 14064340.80 14064340.91 0.0521 0.0280

Jupiter 33794-12-31 12:57 G 14064429.94 14064430.04 14064430.14 0.0518 0.0314

Moon 33798-05-14 21:07 G 14065660.27 14065660.38 14065660.49 0.2656 0.0112

Earth 33798-05-14 21:36 G 14065660.30 14065660.40 14065660.51 0.2656 0.0121 *

Mars 33800-03-16 20:24 G 14066331.20 14066331.35 14066331.50 0.1683 0.0581

Mars 33801-01-09 21:21 G 14066630.28 14066630.39 14066630.50 0.1861 0.0600

Jupiter 33801-02-28 11:45 G 14066679.84 14066679.99 14066680.14 0.0507 0.0287

Venus 33805-02-15 17:17 G 14068128.14 14068128.22 14068128.31 0.3684 0.2217

Jupiter 33806-07-23 11:45 G 14068650.92 14068650.99 14068651.06 0.0521 0.0423

Jupiter 33806-10-20 17:17 G 14068740.10 14068740.22 14068740.34 0.0519 0.0170

Venus 33809-02-15 23:17 G 14069589.42 14069589.47 14069589.52 0.3687 0.3404

Saturn 33809-08-06 04:48 G 14069760.55 14069760.70 14069760.86 0.0294 0.0155

Mars 33809-08-06 22:19 G 14069761.29 14069761.43 14069761.58 0.1676 0.0765

Saturn 33809-11-03 05:02 G 14069849.53 14069849.71 14069849.89 0.0295 0.0045

Saturn 33810-01-31 04:48 G 14069938.60 14069938.70 14069938.80 0.0296 0.0242

Uranus 33810-06-01 16:19 G 14070060.13 14070060.18 14070060.24 0.0144 0.0129

Mars 33810-06-02 05:31 G 14070060.70 14070060.73 14070060.76 0.1869 0.1807

Uranus 33810-08-28 20:09 G 14070148.25 14070148.34 14070148.43 0.0144 0.0108

Venus 33810-09-01 10:19 G 14070151.82 14070151.93 14070152.04 0.3683 0.0316

Uranus 33810-11-24 23:45 G 14070236.39 14070236.49 14070236.61 0.0144 0.0087

Uranus 33811-02-21 03:50 G 14070324.54 14070324.66 14070324.78 0.0144 0.0065

Moon 33811-05-18 14:38 G 14070411.01 14070411.11 14070411.20 0.2659 0.1266

Earth 33811-05-18 15:07 G 14070411.04 14070411.13 14070411.23 0.2656 0.1383 *

Uranus 33811-05-20 07:41 G 14070412.69 14070412.82 14070412.95 0.0144 0.0044

Uranus 33811-08-16 11:31 G 14070500.85 14070500.98 14070501.11 0.0144 0.0022

Uranus 33811-11-12 15:21 G 14070589.00 14070589.14 14070589.28 0.0144 0.0002

Uranus 33812-02-08 19:12 G 14070677.17 14070677.30 14070677.44 0.0144 0.0022

Uranus 33812-05-06 23:02 G 14070765.34 14070765.46 14070765.60 0.0144 0.0045

Uranus 33812-08-03 03:07 G 14070853.51 14070853.63 14070853.76 0.0144 0.0066

Uranus 33812-10-30 07:12 G 14070941.69 14070941.80 14070941.91 0.0144 0.0088

Jupiter 33812-12-17 09:07 G 14070989.70 14070989.88 14070990.06 0.0507 0.0088

Uranus 33813-01-26 11:17 G 14071029.88 14071029.97 14071030.06 0.0144 0.0111

Uranus 33813-04-24 15:07 G 14071118.09 14071118.13 14071118.19 0.0145 0.0134

Venus 33814-09-02 01:41 G 14071613.44 14071613.57 14071613.71 0.3688 0.0481

Venus 33816-03-17 03:36 G 14072175.55 14072175.65 14072175.75 0.3683 0.1656

Moon 33818-05-11 15:50 G 14072961.10 14072961.16 14072961.21 0.2649 0.2239

Earth 33818-05-11 15:50 G 14072961.11 14072961.16 14072961.21 0.2656 0.2295 *

Jupiter 33818-08-08 21:36 G 14073050.27 14073050.40 14073050.53 0.0519 0.0023

Neptune 33819-09-15 17:45 G 14073453.19 14073453.24 14073453.33 0.0089 0.0082

Neptune 33819-12-12 21:07 G 14073541.29 14073541.38 14073541.51 0.0089 0.0072

Neptune 33820-03-10 00:43 G 14073629.40 14073629.53 14073629.68 0.0089 0.0061

Neptune 33820-06-06 04:05 G 14073717.53 14073717.67 14073717.84 0.0089 0.0051

Neptune 33820-09-02 07:26 G 14073805.65 14073805.81 14073805.99 0.0089 0.0041

Neptune 33820-11-29 11:02 G 14073893.78 14073893.96 14073894.14 0.0089 0.0030

Neptune 33821-02-25 14:24 G 14073981.92 14073982.10 14073982.28 0.0089 0.0020

Neptune 33821-05-24 17:45 G 14074070.05 14074070.24 14074070.43 0.0089 0.0010

Neptune 33821-08-20 21:07 G 14074158.19 14074158.38 14074158.57 0.0089 0.0001

Earth 33821-11-13 17:02 G 14074243.05 14074243.21 14074243.37 0.2676 0.0465

Moon 33821-11-13 17:45 G 14074243.09 14074243.24 14074243.40 0.2682 0.0425 *

Neptune 33821-11-17 00:29 G 14074246.33 14074246.52 14074246.70 0.0089 0.0011

Neptune 33822-02-13 03:36 G 14074334.47 14074334.65 14074334.84 0.0089 0.0021

Neptune 33822-05-12 06:57 G 14074422.62 14074422.79 14074422.97 0.0089 0.0031

Neptune 33822-08-08 10:05 G 14074510.77 14074510.92 14074511.10 0.0089 0.0042

Neptune 33822-11-04 13:12 G 14074598.92 14074599.05 14074599.22 0.0089 0.0052

Saturn 33822-12-09 23:45 G 14074634.47 14074634.49 14074634.51 0.0269 0.0264

Neptune 33823-01-31 16:33 G 14074687.07 14074687.19 14074687.34 0.0089 0.0062

Saturn 33823-03-08 10:05 G 14074722.81 14074722.92 14074723.03 0.0268 0.0157

Neptune 33823-04-29 19:41 G 14074775.23 14074775.32 14074775.45 0.0089 0.0072

Saturn 33823-06-04 20:24 G 14074811.22 14074811.35 14074811.49 0.0267 0.0050

Neptune 33823-07-26 23:02 G 14074863.41 14074863.46 14074863.55 0.0089 0.0082

Saturn 33823-09-01 06:57 G 14074899.66 14074899.79 14074899.92 0.0267 0.0058

Saturn 33823-11-28 17:31 G 14074988.12 14074988.23 14074988.34 0.0266 0.0166

Jupiter 33824-10-05 05:45 G 14075299.56 14075299.74 14075299.92 0.0507 0.0120

Jupiter 33830-05-28 01:41 G 14077360.45 14077360.57 14077360.70 0.0520 0.0128

Jupiter 33830-08-25 07:26 G 14077449.76 14077449.81 14077449.87 0.0517 0.0466

Mars 33831-02-18 13:12 G 14077626.94 14077627.05 14077627.16 0.1853 0.0757

Moon 33831-05-14 08:38 G 14077711.76 14077711.86 14077711.96 0.2651 0.1095

Earth 33831-05-14 09:07 G 14077711.78 14077711.88 14077711.98 0.2656 0.0994 *

Earth 33834-11-17 00:43 G 14078994.48 14078994.53 14078994.58 0.2676 0.2517

Jupiter 33836-07-24 02:53 G 14079609.48 14079609.62 14079609.76 0.0506 0.0322

Jupiter 33836-10-22 12:00 G 14079699.95 14079700.00 14079700.06 0.0508 0.0482

Saturn 33838-12-24 05:17 G 14080492.59 14080492.72 14080492.86 0.0294 0.0194

Saturn 33839-03-23 05:31 G 14080581.55 14080581.73 14080581.92 0.0295 0.0010

Saturn 33839-06-20 05:17 G 14080670.60 14080670.72 14080670.86 0.0296 0.0205

Mars 33839-09-15 20:53 G 14080758.23 14080758.37 14080758.51 0.1683 0.0772

Mars 33840-07-10 21:21 G 14081057.28 14081057.39 14081057.51 0.1861 0.0446

Jupiter 33842-03-16 05:31 G 14081670.62 14081670.73 14081670.83 0.0521 0.0287

Jupiter 33842-06-13 11:02 G 14081759.86 14081759.96 14081760.07 0.0518 0.0307

Pluto 33843-08-20 06:00 G 14082192.72 14082192.75 14082192.80 0.0069 0.0066

Pluto 33843-11-16 06:43 G 14082280.71 14082280.78 14082280.86 0.0069 0.0056

Pluto 33844-02-12 07:12 G 14082368.71 14082368.80 14082368.90 0.0070 0.0046

Pluto 33844-05-10 07:41 G 14082456.72 14082456.82 14082456.94 0.0070 0.0036

Moon 33844-05-16 01:41 G 14082462.46 14082462.57 14082462.68 0.2656 0.0254

Earth 33844-05-16 02:24 G 14082462.50 14082462.60 14082462.71 0.2656 0.0335 *

Pluto 33844-08-06 08:24 G 14082544.73 14082544.85 14082544.97 0.0070 0.0026

Pluto 33844-11-02 08:53 G 14082632.75 14082632.87 14082633.00 0.0070 0.0016

Pluto 33845-01-29 09:36 G 14082720.77 14082720.90 14082721.03 0.0070 0.0005

Pluto 33845-04-27 10:05 G 14082808.79 14082808.92 14082809.05 0.0070 0.0005

Pluto 33845-07-24 10:33 G 14082896.82 14082896.94 14082897.07 0.0070 0.0015

Pluto 33845-10-20 11:02 G 14082984.85 14082984.96 14082985.09 0.0070 0.0026

Pluto 33846-01-16 11:45 G 14083072.88 14083072.99 14083073.10 0.0070 0.0036

Pluto 33846-04-14 12:14 G 14083160.92 14083161.01 14083161.11 0.0071 0.0046

Pluto 33846-07-11 12:43 G 14083248.96 14083249.03 14083249.12 0.0071 0.0057

Pluto 33846-10-07 13:12 G 14083337.03 14083337.05 14083337.10 0.0071 0.0068

Jupiter 33848-08-10 09:21 G 14084009.74 14084009.89 14084010.04 0.0507 0.0284

Mars 33849-02-04 23:02 G 14084188.31 14084188.46 14084188.61 0.1677 0.0558

Mars 33849-12-01 05:17 G 14084487.67 14084487.72 14084487.77 0.1868 0.1677

Uranus 33851-04-06 06:57 G 14084978.72 14084978.79 14084978.86 0.0135 0.0123

Uranus 33851-07-03 13:26 G 14085066.95 14085067.06 14085067.20 0.0135 0.0099

Uranus 33851-09-29 20:09 G 14085155.19 14085155.34 14085155.50 0.0135 0.0074

Uranus 33851-12-27 02:53 G 14085243.45 14085243.62 14085243.79 0.0134 0.0050

Uranus 33852-03-24 09:36 G 14085331.71 14085331.90 14085332.08 0.0134 0.0026

Uranus 33852-06-20 16:05 G 14085419.98 14085420.17 14085420.35 0.0134 0.0003

Saturn 33852-07-25 13:41 G 14085454.97 14085455.07 14085455.17 0.0268 0.0177

Uranus 33852-09-16 22:19 G 14085508.25 14085508.43 14085508.62 0.0134 0.0023

Saturn 33852-10-22 00:00 G 14085543.38 14085543.50 14085543.64 0.0267 0.0071

Uranus 33852-12-14 04:33 G 14085596.53 14085596.69 14085596.87 0.0134 0.0047

Saturn 33853-01-18 10:33 G 14085631.81 14085631.94 14085632.08 0.0266 0.0038

Uranus 33853-03-12 11:02 G 14085684.81 14085684.96 14085685.12 0.0134 0.0069

Saturn 33853-04-16 21:07 G 14085720.27 14085720.38 14085720.49 0.0266 0.0146

Uranus 33853-06-08 17:17 G 14085773.10 14085773.22 14085773.36 0.0134 0.0092

Saturn 33853-07-14 07:41 G 14085808.79 14085808.82 14085808.86 0.0265 0.0254

Uranus 33853-09-04 23:31 G 14085861.40 14085861.48 14085861.58 0.0134 0.0115

Jupiter 33854-01-02 09:36 G 14085980.83 14085980.90 14085980.97 0.0521 0.0436

Jupiter 33854-04-01 15:07 G 14086070.01 14086070.13 14086070.25 0.0519 0.0156

Venus 33856-03-08 22:19 G 14086777.39 14086777.43 14086777.46 0.3684 0.3431

Moon 33857-05-18 19:26 G 14087213.23 14087213.31 14087213.40 0.2660 0.1610

Earth 33857-05-18 19:55 G 14087213.25 14087213.33 14087213.42 0.2656 0.1656 *

Jupiter 33860-05-29 06:00 G 14088319.57 14088319.75 14088319.93 0.0507 0.0075

Venus 33861-09-22 15:07 G 14088801.03 14088801.13 14088801.23 0.3684 0.1546

Moon 33864-05-11 20:24 G 14089763.29 14089763.35 14089763.42 0.2649 0.2091

Earth 33864-05-11 20:38 G 14089763.29 14089763.36 14089763.43 0.2656 0.2025 *

Venus 33865-09-22 23:45 G 14090262.37 14090262.49 14090262.60 0.3687 0.2103

Jupiter 33866-01-18 19:26 G 14090380.18 14090380.31 14090380.44 0.0520 0.0016

Venus 33867-04-08 08:09 G 14090824.73 14090824.84 14090824.95 0.3683 0.0384

Earth 33867-11-14 23:45 G 14091045.33 14091045.49 14091045.65 0.2676 0.0102

Moon 33867-11-15 00:43 G 14091045.38 14091045.53 14091045.69 0.2681 0.0326 *

Saturn 33868-05-12 05:02 G 14091224.61 14091224.71 14091224.81 0.0294 0.0242

Saturn 33868-08-09 05:17 G 14091313.54 14091313.72 14091313.90 0.0295 0.0042

Saturn 33868-11-06 05:02 G 14091402.57 14091402.71 14091402.87 0.0296 0.0158

Mars 33870-08-19 13:26 G 14092053.95 14092054.06 14092054.16 0.1853 0.0925

Venus 33871-04-09 02:09 G 14092286.47 14092286.59 14092286.71 0.3688 0.1735

Jupiter 33872-03-17 03:07 G 14092629.45 14092629.63 14092629.80 0.0506 0.0128

Venus 33872-10-22 01:26 G 14092848.48 14092848.56 14092848.64 0.3682 0.2366

Moon 33877-05-14 13:12 G 14094513.95 14094514.05 14094514.16 0.2652 0.0752

Earth 33877-05-14 13:55 G 14094513.97 14094514.08 14094514.18 0.2656 0.0724 *

Jupiter 33877-11-07 00:00 G 14094690.37 14094690.50 14094690.62 0.0520 0.0135

Jupiter 33878-02-04 05:45 G 14094779.68 14094779.74 14094779.79 0.0517 0.0460

Mars 33879-03-16 21:21 G 14095185.27 14095185.39 14095185.52 0.1684 0.0968

Mars 33880-01-09 21:21 G 14095484.27 14095484.39 14095484.51 0.1861 0.0304

Saturn 33881-12-12 16:33 G 14096187.11 14096187.19 14096187.28 0.0268 0.0206

Saturn 33882-03-11 02:53 G 14096275.50 14096275.62 14096275.75 0.0268 0.0099

Saturn 33882-06-07 13:26 G 14096363.92 14096364.06 14096364.19 0.0267 0.0009

Saturn 33882-09-04 00:00 G 14096452.38 14096452.50 14096452.62 0.0266 0.0117

Saturn 33882-12-01 10:19 G 14096540.87 14096540.93 14096541.01 0.0266 0.0225

Jupiter 33884-01-03 23:31 G 14096939.35 14096939.48 14096939.62 0.0506 0.0338

Jupiter 33884-04-03 08:53 G 14097029.80 14097029.87 14097029.94 0.0508 0.0467

Mars 33888-08-05 23:45 G 14098615.33 14098615.49 14098615.64 0.1677 0.0370

Mars 33889-06-01 05:31 G 14098914.66 14098914.73 14098914.79 0.1868 0.1525

Jupiter 33889-08-26 04:05 G 14099000.56 14099000.67 14099000.78 0.0520 0.0283

Jupiter 33889-11-23 09:36 G 14099089.80 14099089.90 14099090.01 0.0518 0.0310

Moon 33890-05-17 06:29 G 14099264.67 14099264.77 14099264.88 0.2656 0.0475

Earth 33890-05-17 07:12 G 14099264.70 14099264.80 14099264.91 0.2656 0.0600 *

Uranus 33894-03-25 20:09 G 14100673.34 14100673.34 14100673.36 0.0144 0.0143

Uranus 33894-06-22 00:00 G 14100761.43 14100761.50 14100761.57 0.0144 0.0122

Uranus 33894-09-18 03:50 G 14100849.57 14100849.66 14100849.76 0.0144 0.0101

Uranus 33894-12-15 07:26 G 14100937.71 14100937.81 14100937.93 0.0144 0.0080

Uranus 33895-03-13 11:31 G 14101025.85 14101025.98 14101026.10 0.0144 0.0058

Uranus 33895-06-09 15:07 G 14101114.01 14101114.13 14101114.27 0.0144 0.0037

Uranus 33895-09-05 19:12 G 14101202.16 14101202.30 14101202.43 0.0144 0.0015

Uranus 33895-12-02 23:02 G 14101290.32 14101290.46 14101290.60 0.0144 0.0007

Jupiter 33896-01-21 06:14 G 14101339.61 14101339.76 14101339.92 0.0508 0.0269

Uranus 33896-02-29 02:53 G 14101378.49 14101378.62 14101378.76 0.0144 0.0029

Uranus 33896-05-27 06:43 G 14101466.66 14101466.78 14101466.92 0.0144 0.0051

Uranus 33896-08-23 10:48 G 14101554.83 14101554.95 14101555.07 0.0144 0.0073

Uranus 33896-11-19 14:53 G 14101643.02 14101643.12 14101643.22 0.0144 0.0096

Uranus 33897-02-15 18:43 G 14101731.21 14101731.28 14101731.36 0.0144 0.0118

Uranus 33897-05-14 22:48 G 14101819.43 14101819.45 14101819.48 0.0144 0.0141

Saturn 33897-09-29 05:02 G 14101956.68 14101956.71 14101956.77 0.0294 0.0283

Saturn 33897-12-27 05:45 G 14102045.56 14102045.74 14102045.91 0.0295 0.0082

Saturn 33898-03-26 05:45 G 14102134.57 14102134.74 14102134.90 0.0295 0.0118

Neptune 33900-01-04 08:24 G 14102783.84 14102783.85 14102783.89 0.0089 0.0087

Neptune 33900-04-02 09:50 G 14102871.86 14102871.91 14102871.98 0.0089 0.0079

Neptune 33900-06-29 11:31 G 14102959.90 14102959.98 14102960.05 0.0089 0.0072

Neptune 33900-09-25 12:43 G 14103047.94 14103048.03 14103048.13 0.0089 0.0065

Moon 33900-11-12 22:48 G 14103096.36 14103096.45 14103096.53 0.2683 0.2237

Earth 33900-11-12 22:33 G 14103096.37 14103096.44 14103096.51 0.2676 0.2357 *

Neptune 33900-12-22 13:55 G 14103135.99 14103136.08 14103136.19 0.0088 0.0058

Neptune 33901-03-20 15:21 G 14103224.04 14103224.14 14103224.26 0.0088 0.0051

Jupiter 33901-06-15 07:41 G 14103310.76 14103310.82 14103310.89 0.0521 0.0443

Neptune 33901-06-16 16:48 G 14103312.09 14103312.20 14103312.32 0.0088 0.0043

Jupiter 33901-09-12 13:12 G 14103399.93 14103400.05 14103400.18 0.0519 0.0149

Neptune 33901-09-12 18:14 G 14103400.14 14103400.26 14103400.39 0.0088 0.0036 *

Neptune 33901-12-09 19:41 G 14103488.19 14103488.32 14103488.45 0.0088 0.0029

Neptune 33902-03-07 21:07 G 14103576.25 14103576.38 14103576.51 0.0088 0.0021

Neptune 33902-06-03 22:19 G 14103664.30 14103664.43 14103664.57 0.0088 0.0015

Neptune 33902-08-30 23:45 G 14103752.36 14103752.49 14103752.63 0.0088 0.0008

Neptune 33902-11-27 01:12 G 14103840.42 14103840.55 14103840.69 0.0088 0.0003

Neptune 33903-02-23 02:38 G 14103928.48 14103928.61 14103928.75 0.0088 0.0008

Moon 33903-05-21 00:29 G 14104015.44 14104015.52 14104015.59 0.2662 0.1898

Earth 33903-05-21 00:43 G 14104015.46 14104015.53 14104015.60 0.2656 0.1928 *

Neptune 33903-05-22 04:05 G 14104016.54 14104016.67 14104016.80 0.0088 0.0015

Neptune 33903-08-18 05:31 G 14104104.60 14104104.73 14104104.86 0.0088 0.0023

Neptune 33903-11-14 06:43 G 14104192.66 14104192.78 14104192.92 0.0088 0.0030

Neptune 33904-02-10 08:09 G 14104280.72 14104280.84 14104280.97 0.0088 0.0038

Neptune 33904-05-08 09:21 G 14104368.79 14104368.89 14104369.02 0.0088 0.0046

Neptune 33904-08-04 11:02 G 14104456.85 14104456.96 14104457.07 0.0088 0.0052

Neptune 33904-10-31 12:29 G 14104544.92 14104545.02 14104545.12 0.0088 0.0060

Neptune 33905-01-27 13:41 G 14104633.00 14104633.07 14104633.17 0.0088 0.0067

Neptune 33905-04-25 15:07 G 14104721.07 14104721.13 14104721.21 0.0088 0.0075

Neptune 33905-07-22 16:48 G 14104809.15 14104809.20 14104809.25 0.0088 0.0082

Jupiter 33907-11-10 03:36 G 14105649.47 14105649.65 14105649.83 0.0507 0.0071

Mars 33910-02-18 13:12 G 14106480.95 14106481.05 14106481.15 0.1853 0.1054

Moon 33910-05-14 01:12 G 14106565.47 14106565.55 14106565.63 0.2649 0.1722

Earth 33910-05-14 01:12 G 14106565.47 14106565.55 14106565.63 0.2656 0.1762 *

Saturn 33911-05-02 20:24 G 14106919.28 14106919.35 14106919.42 0.0268 0.0226

Saturn 33911-07-30 06:43 G 14107007.66 14107007.78 14107007.90 0.0268 0.0118

Saturn 33911-10-26 17:17 G 14107096.08 14107096.22 14107096.35 0.0267 0.0013

Saturn 33912-01-23 03:36 G 14107184.53 14107184.65 14107184.78 0.0266 0.0097

Saturn 33912-04-20 14:09 G 14107273.01 14107273.09 14107273.18 0.0265 0.0205

Venus 33912-10-14 19:55 G 14107450.26 14107450.33 14107450.40 0.3684 0.2774

Jupiter 33913-07-01 17:17 G 14107710.09 14107710.22 14107710.35 0.0520 0.0010

Earth 33913-11-16 06:29 G 14107847.62 14107847.77 14107847.93 0.2676 0.0686

Moon 33913-11-16 07:55 G 14107847.68 14107847.83 14107847.98 0.2680 0.0757 *

Venus 33918-04-30 12:57 G 14109473.93 14109474.04 14109474.15 0.3683 0.0875

Mars 33918-09-15 21:50 G 14109612.30 14109612.41 14109612.53 0.1684 0.1155

Mars 33919-07-11 21:21 G 14109911.27 14109911.39 14109911.51 0.1861 0.0153

Jupiter 33919-08-29 00:14 G 14109959.33 14109959.51 14109959.68 0.0506 0.0139

Venus 33922-05-01 00:00 G 14110935.37 14110935.50 14110935.64 0.3687 0.0798

Moon 33923-05-16 18:00 G 14111316.14 14111316.25 14111316.36 0.2653 0.0605

Earth 33923-05-16 18:43 G 14111316.17 14111316.28 14111316.38 0.2656 0.0459 *

Venus 33923-11-14 06:00 G 14111497.65 14111497.75 14111497.86 0.3683 0.1077

Jupiter 33925-04-19 21:36 G 14112020.28 14112020.40 14112020.53 0.0520 0.0149

Jupiter 33925-07-18 03:21 G 14112109.58 14112109.64 14112109.71 0.0518 0.0447

Saturn 33927-05-17 05:31 G 14112777.57 14112777.73 14112777.90 0.0294 0.0127

Saturn 33927-08-14 05:45 G 14112866.56 14112866.74 14112866.91 0.0295 0.0073

Saturn 33927-11-11 05:17 G 14112955.66 14112955.72 14112955.80 0.0296 0.0271

Venus 33927-11-15 02:09 G 14112959.51 14112959.59 14112959.67 0.3688 0.2967

Mars 33928-02-06 00:14 G 14113042.35 14113042.51 14113042.67 0.1677 0.0182

Mars 33928-12-01 05:31 G 14113341.65 14113341.73 14113341.81 0.1868 0.1367

Venus 33929-05-29 23:31 G 14113521.42 14113521.48 14113521.53 0.3682 0.3086

Pluto 33929-06-30 08:09 G 14113552.83 14113552.84 14113552.88 0.0075 0.0074

Pluto 33929-09-26 10:48 G 14113640.83 14113640.95 14113641.10 0.0075 0.0055

Pluto 33929-12-23 13:41 G 14113728.90 14113729.07 14113729.25 0.0075 0.0036

Pluto 33930-03-21 16:05 G 14113816.99 14113817.17 14113817.38 0.0074 0.0018

Pluto 33930-06-17 18:57 G 14113905.09 14113905.29 14113905.49 0.0074 0.0002

Pluto 33930-09-13 21:21 G 14113993.21 14113993.39 14113993.59 0.0074 0.0020

Pluto 33930-12-11 00:14 G 14114081.34 14114081.51 14114081.68 0.0074 0.0038

Pluto 33931-03-09 02:24 G 14114169.49 14114169.60 14114169.75 0.0074 0.0057

Jupiter 33931-06-16 20:53 G 14114269.24 14114269.37 14114269.51 0.0505 0.0344

Jupiter 33931-09-15 06:14 G 14114359.69 14114359.76 14114359.84 0.0508 0.0460

Uranus 33935-04-27 13:26 G 14115679.98 14115680.06 14115680.16 0.0135 0.0118

Uranus 33935-07-24 20:09 G 14115768.22 14115768.34 14115768.48 0.0135 0.0094

Uranus 33935-10-21 02:53 G 14115856.47 14115856.62 14115856.79 0.0135 0.0069

Uranus 33936-01-17 09:36 G 14115944.73 14115944.90 14115945.08 0.0134 0.0045

Uranus 33936-04-14 16:05 G 14116032.99 14116033.17 14116033.36 0.0134 0.0021

Moon 33936-05-18 11:31 G 14116066.87 14116066.98 14116067.08 0.2657 0.0830

Earth 33936-05-18 12:00 G 14116066.90 14116067.00 14116067.11 0.2655 0.0872 *

Uranus 33936-07-11 22:48 G 14116121.26 14116121.45 14116121.63 0.0134 0.0004

Uranus 33936-10-08 05:02 G 14116209.54 14116209.71 14116209.89 0.0134 0.0027

Uranus 33937-01-04 11:31 G 14116297.81 14116297.98 14116298.15 0.0134 0.0051

Jupiter 33937-02-06 02:09 G 14116330.49 14116330.59 14116330.70 0.0521 0.0291

Uranus 33937-04-02 17:45 G 14116386.10 14116386.24 14116386.40 0.0134 0.0074

Jupiter 33937-05-06 07:55 G 14116419.72 14116419.83 14116419.93 0.0518 0.0302

Mars 33937-06-28 02:24 G 14116472.53 14116472.60 14116472.67 0.1671 0.1502

Uranus 33937-06-30 00:00 G 14116474.39 14116474.50 14116474.63 0.0134 0.0097

Uranus 33937-09-26 06:14 G 14116562.69 14116562.76 14116562.85 0.0134 0.0120

Saturn 33940-09-18 23:17 G 14117651.43 14117651.47 14117651.51 0.0269 0.0255

Saturn 33940-12-16 09:36 G 14117739.79 14117739.90 14117740.01 0.0268 0.0147

Saturn 33941-03-14 19:55 G 14117828.20 14117828.33 14117828.47 0.0267 0.0041

Saturn 33941-06-11 06:29 G 14117916.64 14117916.77 14117916.90 0.0266 0.0068

Saturn 33941-09-07 17:02 G 14118005.11 14118005.21 14118005.31 0.0266 0.0176

Jupiter 33943-07-04 03:07 G 14118669.47 14118669.63 14118669.78 0.0508 0.0253

Earth 33946-11-14 05:17 G 14119898.61 14119898.72 14119898.84 0.2676 0.1773

Moon 33946-11-14 05:45 G 14119898.63 14119898.74 14119898.86 0.2682 0.1816 *

Jupiter 33948-11-25 06:29 G 14120640.70 14120640.77 14120640.84 0.0521 0.0438

Jupiter 33949-02-22 12:00 G 14120729.88 14120730.00 14120730.12 0.0519 0.0153

Moon 33949-05-21 05:17 G 14120817.65 14120817.72 14120817.78 0.2662 0.2141

Earth 33949-05-21 05:31 G 14120817.67 14120817.73 14120817.79 0.2655 0.2203 *

Mars 33949-08-19 13:12 G 14120907.96 14120908.05 14120908.14 0.1853 0.1212

Jupiter 33955-04-22 00:29 G 14122979.34 14122979.52 14122979.70 0.0507 0.0055

Moon 33956-05-14 05:45 G 14123367.65 14123367.74 14123367.83 0.2650 0.1567

Earth 33956-05-14 06:00 G 14123367.66 14123367.75 14123367.84 0.2656 0.1490 *

Saturn 33956-10-03 05:17 G 14123509.57 14123509.72 14123509.87 0.0294 0.0173

Saturn 33956-12-31 05:31 G 14123598.55 14123598.73 14123598.91 0.0295 0.0028

Saturn 33957-03-30 05:17 G 14123687.61 14123687.72 14123687.84 0.0296 0.0227

Mars 33958-03-16 22:33 G 14124039.35 14124039.44 14124039.53 0.1684 0.1351

Mars 33959-01-09 21:21 G 14124338.27 14124338.39 14124338.51 0.1860 0.0013

Earth 33959-11-17 13:12 G 14124649.91 14124650.05 14124650.19 0.2676 0.1254

Moon 33959-11-17 14:53 G 14124649.99 14124650.12 14124650.24 0.2680 0.1563 *

Jupiter 33960-12-11 15:36 G 14125040.02 14125040.15 14125040.27 0.0520 0.0020

Jupiter 33967-02-07 21:50 G 14127289.24 14127289.41 14127289.59 0.0506 0.0142

Mars 33967-08-07 00:43 G 14127469.37 14127469.53 14127469.69 0.1677 0.0043

Mars 33968-06-01 05:17 G 14127768.64 14127768.72 14127768.81 0.1868 0.1239

Moon 33969-05-16 22:48 G 14128118.34 14128118.45 14128118.56 0.2653 0.0228

Earth 33969-05-16 23:31 G 14128118.37 14128118.48 14128118.58 0.2655 0.0210 *

Venus 33969-05-21 17:45 G 14128123.15 14128123.24 14128123.33 0.3684 0.2108

Saturn 33970-05-05 13:12 G 14128471.95 14128472.05 14128472.16 0.0268 0.0168

Saturn 33970-08-01 23:45 G 14128560.36 14128560.49 14128560.62 0.0267 0.0060

Saturn 33970-10-29 10:05 G 14128648.79 14128648.92 14128649.06 0.0266 0.0048

Saturn 33971-01-25 20:38 G 14128737.25 14128737.36 14128737.47 0.0266 0.0156

Saturn 33971-04-24 07:12 G 14128825.79 14128825.80 14128825.81 0.0265 0.0263

Jupiter 33972-09-29 19:41 G 14129350.19 14129350.32 14129350.44 0.0520 0.0161

Jupiter 33972-12-28 01:12 G 14129439.49 14129439.55 14129439.62 0.0518 0.0435

Venus 33973-05-21 21:36 G 14129584.36 14129584.40 14129584.45 0.3687 0.3445

Venus 33974-12-05 10:48 G 14130146.84 14130146.95 14130147.06 0.3683 0.0194

Mars 33976-12-27 02:53 G 14130899.52 14130899.62 14130899.72 0.1671 0.1317

Uranus 33978-04-16 03:50 G 14131374.63 14131374.66 14131374.71 0.0144 0.0136

Uranus 33978-07-13 07:41 G 14131462.75 14131462.82 14131462.91 0.0144 0.0115

Uranus 33978-10-09 11:17 G 14131550.88 14131550.97 14131551.08 0.0144 0.0094

Jupiter 33978-11-26 18:14 G 14131599.13 14131599.26 14131599.39 0.0505 0.0352

Venus 33978-12-06 00:29 G 14131608.38 14131608.52 14131608.66 0.3687 0.0503

Uranus 33979-01-05 15:21 G 14131639.02 14131639.14 14131639.26 0.0144 0.0072

Jupiter 33979-02-25 03:36 G 14131689.57 14131689.65 14131689.73 0.0508 0.0452

Uranus 33979-04-03 19:12 G 14131727.17 14131727.30 14131727.43 0.0144 0.0051

Uranus 33979-06-30 23:02 G 14131815.33 14131815.46 14131815.59 0.0144 0.0029

Uranus 33979-09-27 02:53 G 14131903.48 14131903.62 14131903.75 0.0144 0.0008

Uranus 33979-12-24 06:43 G 14131991.64 14131991.78 14131991.92 0.0144 0.0014

Uranus 33980-03-21 10:33 G 14132079.81 14132079.94 14132080.08 0.0144 0.0037

Uranus 33980-06-17 14:38 G 14132167.98 14132168.11 14132168.23 0.0144 0.0059

Venus 33980-06-20 04:05 G 14132170.57 14132170.67 14132170.76 0.3683 0.1783

Uranus 33980-09-13 18:29 G 14132256.16 14132256.27 14132256.39 0.0144 0.0081

Uranus 33980-12-10 22:19 G 14132344.35 14132344.43 14132344.54 0.0144 0.0104

Uranus 33981-03-09 02:38 G 14132432.54 14132432.61 14132432.67 0.0144 0.0126

Moon 33982-05-19 16:19 G 14132869.08 14132869.18 14132869.28 0.2659 0.1007

Earth 33982-05-19 16:48 G 14132869.10 14132869.20 14132869.30 0.2655 0.1142 *

Neptune 33984-03-16 13:12 G 14133536.04 14133536.05 14133536.08 0.0089 0.0088

Neptune 33984-06-12 16:19 G 14133624.11 14133624.18 14133624.29 0.0089 0.0078

Jupiter 33984-07-19 00:00 G 14133660.40 14133660.50 14133660.60 0.0521 0.0306

Neptune 33984-09-08 20:09 G 14133712.22 14133712.34 14133712.46 0.0089 0.0067

Jupiter 33984-10-16 05:31 G 14133749.63 14133749.73 14133749.84 0.0519 0.0289

Neptune 33984-12-05 23:17 G 14133800.34 14133800.47 14133800.63 0.0089 0.0057

Neptune 33985-03-04 02:38 G 14133888.46 14133888.61 14133888.78 0.0089 0.0047

Neptune 33985-05-31 06:14 G 14133976.59 14133976.76 14133976.94 0.0089 0.0036

Neptune 33985-08-27 09:36 G 14134064.72 14134064.90 14134065.09 0.0089 0.0026

Neptune 33985-11-23 12:57 G 14134152.86 14134153.04 14134153.23 0.0089 0.0016

Neptune 33986-02-19 16:19 G 14134241.00 14134241.18 14134241.37 0.0089 0.0006

Saturn 33986-02-20 04:48 G 14134241.59 14134241.70 14134241.83 0.0294 0.0221

Neptune 33986-05-18 19:41 G 14134329.14 14134329.32 14134329.51 0.0089 0.0005

Saturn 33986-05-20 05:17 G 14134330.54 14134330.72 14134330.90 0.0295 0.0019

Neptune 33986-08-14 23:02 G 14134417.28 14134417.46 14134417.65 0.0089 0.0015

Saturn 33986-08-17 05:17 G 14134419.58 14134419.72 14134419.86 0.0296 0.0181

Neptune 33986-11-11 02:09 G 14134505.42 14134505.59 14134505.78 0.0089 0.0026

Neptune 33987-02-07 05:31 G 14134593.57 14134593.73 14134593.91 0.0089 0.0036

Neptune 33987-05-06 08:53 G 14134681.72 14134681.87 14134682.04 0.0089 0.0046

Neptune 33987-08-02 12:00 G 14134769.87 14134770.00 14134770.16 0.0089 0.0056

Neptune 33987-10-29 15:21 G 14134858.03 14134858.14 14134858.27 0.0089 0.0066

Neptune 33988-01-25 18:43 G 14134946.19 14134946.28 14134946.38 0.0089 0.0076

Neptune 33988-04-22 21:50 G 14135034.38 14135034.41 14135034.47 0.0089 0.0086

Mars 33989-02-17 13:26 G 14135334.98 14135335.06 14135335.14 0.1853 0.1368

Moon 33989-05-12 17:45 G 14135419.20 14135419.24 14135419.27 0.2649 0.2493

Earth 33989-05-12 17:31 G 14135419.20 14135419.23 14135419.26 0.2655 0.2515 *

Jupiter 33990-12-14 00:43 G 14135999.37 14135999.53 14135999.69 0.0507 0.0250

Earth 33992-11-14 12:14 G 14136700.86 14136701.01 14136701.15 0.2676 0.1198

Moon 33992-11-14 12:57 G 14136700.90 14136701.04 14136701.18 0.2682 0.1039 *

Moon 33995-05-22 10:05 G 14137619.88 14137619.92 14137619.95 0.2662 0.2487

Earth 33995-05-22 10:19 G 14137619.89 14137619.93 14137619.97 0.2655 0.2479 *

Jupiter 33996-05-07 04:33 G 14137970.63 14137970.69 14137970.75 0.0522 0.0447

Jupiter 33996-08-04 10:05 G 14138059.80 14138059.92 14138060.04 0.0519 0.0145

Mars 33997-09-14 23:02 G 14138466.40 14138466.46 14138466.52 0.1684 0.1545

Mars 33998-07-10 21:21 G 14138765.27 14138765.39 14138765.51 0.1860 0.0149

Saturn 33999-09-22 16:05 G 14139204.09 14139204.17 14139204.26 0.0268 0.0197

Saturn 33999-12-20 02:38 G 14139292.48 14139292.61 14139292.73 0.0267 0.0090

Saturn 34000-03-17 12:57 G 14139380.91 14139381.04 14139381.17 0.0267 0.0018

Saturn 34000-06-13 23:17 G 14139469.36 14139469.47 14139469.60 0.0266 0.0126

Saturn 34000-09-10 10:05 G 14139557.85 14139557.92 14139557.98 0.0265 0.0234

35TH MILLENNIUM CE

This is a list of transits of Mercury in the 35th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Moon 34002-05-15 10:19 G 14140169.84 14140169.93 14140170.03 0.2651 0.1262

Earth 34002-05-15 10:48 G 14140169.85 14140169.95 14140170.05 0.2656 0.1222 *

Jupiter 34002-10-01 21:21 G 14140309.21 14140309.39 14140309.57 0.0507 0.0043

Earth 34005-11-17 19:55 G 14141452.22 14141452.33 14141452.45 0.2676 0.1826

Moon 34005-11-17 21:36 G 14141452.29 14141452.40 14141452.51 0.2680 0.1910 *

Mars 34007-02-05 01:26 G 14141896.40 14141896.56 14141896.72 0.1677 0.0218

Mars 34007-12-01 05:31 G 14142195.63 14142195.73 14142195.82 0.1868 0.1079

Jupiter 34008-05-23 14:24 G 14142369.97 14142370.10 14142370.23 0.0520 0.0008

Jupiter 34014-07-20 18:57 G 14144619.11 14144619.29 14144619.46 0.0506 0.0155

Moon 34015-05-18 03:36 G 14144920.54 14144920.65 14144920.76 0.2654 0.0086

Earth 34015-05-18 04:05 G 14144920.57 14144920.67 14144920.78 0.2656 0.0144 *

Saturn 34015-07-10 03:36 G 14144973.60 14144973.65 14144973.73 0.0294 0.0272

Saturn 34015-10-07 04:19 G 14145062.50 14145062.68 14145062.86 0.0295 0.0070

Saturn 34016-01-04 04:19 G 14145151.52 14145151.68 14145151.84 0.0295 0.0131

Mars 34016-06-27 03:36 G 14145326.53 14145326.65 14145326.77 0.1671 0.1118

Uranus 34019-05-17 20:38 G 14146381.27 14146381.36 14146381.47 0.0135 0.0112

Uranus 34019-08-14 03:36 G 14146469.51 14146469.65 14146469.79 0.0135 0.0087

Uranus 34019-11-10 10:05 G 14146557.76 14146557.92 14146558.09 0.0135 0.0063

Uranus 34020-02-06 16:33 G 14146646.02 14146646.19 14146646.38 0.0134 0.0039

Jupiter 34020-03-11 17:45 G 14146680.12 14146680.24 14146680.37 0.0520 0.0166

Uranus 34020-05-04 23:17 G 14146734.29 14146734.47 14146734.66 0.0134 0.0014

Jupiter 34020-06-08 23:31 G 14146769.41 14146769.48 14146769.55 0.0518 0.0430

Venus 34020-06-11 22:48 G 14146772.40 14146772.45 14146772.49 0.3684 0.3319

Uranus 34020-08-01 05:45 G 14146822.56 14146822.74 14146822.93 0.0134 0.0010

Uranus 34020-10-28 12:14 G 14146910.83 14146911.01 14146911.19 0.0134 0.0033

Uranus 34021-01-24 18:29 G 14146999.11 14146999.27 14146999.44 0.0134 0.0057

Uranus 34021-04-23 00:57 G 14147087.40 14147087.54 14147087.69 0.0134 0.0080

Uranus 34021-07-20 07:26 G 14147175.69 14147175.81 14147175.92 0.0134 0.0104

Uranus 34021-10-16 13:41 G 14147264.01 14147264.07 14147264.12 0.0134 0.0127

Venus 34025-12-26 15:36 G 14148796.05 14148796.15 14148796.25 0.3684 0.1432

Jupiter 34026-05-08 16:19 G 14148929.05 14148929.18 14148929.31 0.0505 0.0351

Jupiter 34026-08-07 01:41 G 14149019.49 14149019.57 14149019.65 0.0508 0.0454

Moon 34028-05-19 21:07 G 14149671.29 14149671.38 14149671.47 0.2660 0.1404

Earth 34028-05-19 21:36 G 14149671.31 14149671.40 14149671.49 0.2655 0.1413 *

Mars 34028-08-18 13:12 G 14149761.99 14149762.05 14149762.12 0.1852 0.1511

Saturn 34029-02-08 19:41 G 14149936.25 14149936.32 14149936.40 0.0268 0.0219

Saturn 34029-05-08 06:00 G 14150024.63 14150024.75 14150024.88 0.0267 0.0112

Saturn 34029-08-04 16:33 G 14150113.05 14150113.19 14150113.32 0.0267 0.0008

Saturn 34029-11-01 02:53 G 14150201.50 14150201.62 14150201.75 0.0266 0.0104

Venus 34029-12-26 22:19 G 14150257.31 14150257.43 14150257.54 0.3687 0.2097

Saturn 34030-01-28 13:26 G 14150289.98 14150290.06 14150290.14 0.0265 0.0212

Venus 34031-07-12 08:38 G 14150819.75 14150819.86 14150819.97 0.3683 0.0501

Jupiter 34031-12-29 22:05 G 14150990.32 14150990.42 14150990.52 0.0521 0.0315

Jupiter 34032-03-28 03:36 G 14151079.54 14151079.65 14151079.76 0.0519 0.0279

Earth 34035-05-13 22:19 G 14152221.37 14152221.43 14152221.49 0.2655 0.2246

Moon 34035-05-13 22:19 G 14152221.38 14152221.43 14152221.49 0.2649 0.2242 *

Venus 34035-07-13 00:43 G 14152281.41 14152281.53 14152281.65 0.3688 0.1777

Venus 34037-01-25 01:55 G 14152843.50 14152843.58 14152843.66 0.3682 0.2495

Mars 34038-01-08 21:21 G 14153192.28 14153192.39 14153192.51 0.1860 0.0297

Jupiter 34038-05-25 22:33 G 14153329.28 14153329.44 14153329.60 0.0507 0.0248

Earth 34038-11-15 18:57 G 14153503.13 14153503.29 14153503.44 0.2676 0.0620

Moon 34038-11-15 19:55 G 14153503.18 14153503.33 14153503.49 0.2681 0.0511 *

Jupiter 34043-10-18 02:24 G 14155300.54 14155300.60 14155300.66 0.0522 0.0460

Jupiter 34044-01-15 07:55 G 14155389.71 14155389.83 14155389.96 0.0519 0.0133

Saturn 34045-02-23 03:50 G 14155794.49 14155794.66 14155794.82 0.0295 0.0120

Saturn 34045-05-23 03:50 G 14155883.49 14155883.66 14155883.84 0.0296 0.0081

Saturn 34045-08-20 03:36 G 14155972.60 14155972.65 14155972.71 0.0296 0.0280

Mars 34046-08-06 01:41 G 14156323.42 14156323.57 14156323.73 0.1677 0.0400

Mars 34047-06-01 05:31 G 14156622.63 14156622.73 14156622.83 0.1868 0.0928

Moon 34048-05-15 15:07 G 14156972.03 14156972.13 14156972.23 0.2651 0.1031

Earth 34048-05-15 15:36 G 14156972.05 14156972.15 14156972.25 0.2655 0.0949 *

Jupiter 34050-03-13 19:41 G 14157639.13 14157639.32 14157639.50 0.0506 0.0047

Earth 34051-11-19 02:38 G 14158254.54 14158254.61 14158254.68 0.2676 0.2377

Moon 34051-11-19 04:19 G 14158254.67 14158254.68 14158254.68 0.2679 0.2674 *

Jupiter 34055-11-03 12:29 G 14159699.89 14159700.02 14159700.15 0.0520 0.0016

Mars 34055-12-27 04:05 G 14159753.54 14159753.67 14159753.81 0.1671 0.0919

Saturn 34058-06-28 22:19 G 14160668.39 14160668.43 14160668.48 0.0268 0.0249

Saturn 34058-09-25 08:38 G 14160756.75 14160756.86 14160756.98 0.0267 0.0142

Saturn 34058-12-22 19:12 G 14160845.16 14160845.30 14160845.43 0.0267 0.0035

Saturn 34059-03-21 05:31 G 14160933.60 14160933.73 14160933.86 0.0266 0.0073

Saturn 34059-06-17 16:05 G 14161022.07 14161022.17 14161022.27 0.0265 0.0181

Moon 34061-05-18 08:24 G 14161722.74 14161722.85 14161722.95 0.2655 0.0318

Earth 34061-05-18 08:53 G 14161722.77 14161722.87 14161722.98 0.2655 0.0373 *

Jupiter 34061-12-30 16:05 G 14161949.00 14161949.17 14161949.35 0.0506 0.0164

Uranus 34062-05-06 11:31 G 14162075.93 14162075.98 14162076.04 0.0144 0.0129

Uranus 34062-08-02 15:21 G 14162164.05 14162164.14 14162164.23 0.0144 0.0108

Uranus 34062-10-29 18:57 G 14162252.19 14162252.29 14162252.41 0.0144 0.0087

Uranus 34063-01-25 22:48 G 14162340.34 14162340.45 14162340.58 0.0144 0.0066

Uranus 34063-04-24 02:38 G 14162428.49 14162428.61 14162428.74 0.0144 0.0044

Uranus 34063-07-21 06:29 G 14162516.64 14162516.77 14162516.91 0.0144 0.0023

Uranus 34063-10-17 10:33 G 14162604.80 14162604.94 14162605.07 0.0144 0.0005

Uranus 34064-01-13 14:24 G 14162692.96 14162693.10 14162693.23 0.0144 0.0022

Uranus 34064-04-10 18:14 G 14162781.13 14162781.26 14162781.39 0.0144 0.0043

Uranus 34064-07-07 22:05 G 14162869.30 14162869.42 14162869.55 0.0144 0.0066

Neptune 34064-10-01 08:09 G 14162954.81 14162954.84 14162954.89 0.0089 0.0084

Uranus 34064-10-04 01:55 G 14162957.48 14162957.58 14162957.70 0.0144 0.0089

Neptune 34064-12-28 09:21 G 14163042.84 14163042.89 14163042.97 0.0089 0.0077

Uranus 34064-12-31 06:00 G 14163045.67 14163045.75 14163045.84 0.0144 0.0111

Neptune 34065-03-26 10:48 G 14163130.88 14163130.95 14163131.05 0.0089 0.0070

Uranus 34065-03-29 10:05 G 14163133.87 14163133.92 14163133.98 0.0144 0.0133

Neptune 34065-06-22 12:29 G 14163218.93 14163219.02 14163219.12 0.0089 0.0062

Neptune 34065-09-18 13:41 G 14163306.97 14163307.07 14163307.18 0.0089 0.0055

Neptune 34065-12-15 15:07 G 14163395.02 14163395.13 14163395.25 0.0088 0.0048

Neptune 34066-03-13 16:19 G 14163483.07 14163483.18 14163483.31 0.0088 0.0041

Neptune 34066-06-09 18:00 G 14163571.12 14163571.25 14163571.37 0.0088 0.0033

Neptune 34066-09-05 19:26 G 14163659.18 14163659.31 14163659.44 0.0088 0.0026

Neptune 34066-12-02 20:38 G 14163747.23 14163747.36 14163747.50 0.0088 0.0019

Neptune 34067-02-28 22:05 G 14163835.29 14163835.42 14163835.56 0.0088 0.0011

Neptune 34067-05-27 23:31 G 14163923.34 14163923.48 14163923.62 0.0088 0.0004

Jupiter 34067-08-22 17:02 G 14164010.08 14164010.21 14164010.33 0.0520 0.0155

Neptune 34067-08-24 00:57 G 14164011.40 14164011.54 14164011.67 0.0088 0.0004

Jupiter 34067-11-19 22:33 G 14164099.38 14164099.44 14164099.51 0.0518 0.0441

Neptune 34067-11-20 02:09 G 14164099.46 14164099.59 14164099.73 0.0088 0.0012 *

Neptune 34068-02-16 03:36 G 14164187.52 14164187.65 14164187.79 0.0088 0.0019

Mars 34068-02-17 13:26 G 14164189.01 14164189.06 14164189.11 0.1852 0.1660

Neptune 34068-05-14 05:02 G 14164275.58 14164275.71 14164275.84 0.0088 0.0026

Neptune 34068-08-10 06:14 G 14164363.65 14164363.76 14164363.90 0.0088 0.0034

Neptune 34068-11-06 07:55 G 14164451.71 14164451.83 14164451.95 0.0088 0.0040

Neptune 34069-02-02 09:21 G 14164539.78 14164539.89 14164540.00 0.0088 0.0048

Neptune 34069-05-01 10:33 G 14164627.84 14164627.94 14164628.06 0.0088 0.0055

Neptune 34069-07-28 12:00 G 14164715.91 14164716.00 14164716.10 0.0088 0.0063

Neptune 34069-10-24 13:12 G 14164803.99 14164804.05 14164804.15 0.0088 0.0071

Neptune 34070-01-20 14:53 G 14164892.06 14164892.12 14164892.19 0.0088 0.0078

Neptune 34070-04-18 16:05 G 14164980.15 14164980.17 14164980.22 0.0088 0.0086

Jupiter 34073-10-18 13:41 G 14166258.94 14166259.07 14166259.20 0.0505 0.0359

Jupiter 34074-01-16 23:02 G 14166349.38 14166349.46 14166349.55 0.0508 0.0447

Moon 34074-05-21 01:55 G 14166473.49 14166473.58 14166473.67 0.2660 0.1559

Earth 34074-05-21 02:24 G 14166473.52 14166473.60 14166473.68 0.2655 0.1688 *

Saturn 34074-07-13 01:26 G 14166526.42 14166526.56 14166526.71 0.0294 0.0181

Saturn 34074-10-10 01:55 G 14166615.40 14166615.58 14166615.76 0.0295 0.0022

Saturn 34075-01-07 01:41 G 14166704.46 14166704.57 14166704.69 0.0296 0.0221

Venus 34077-01-16 20:24 G 14167445.28 14167445.35 14167445.43 0.3684 0.2662

Mars 34077-07-09 21:21 G 14167619.28 14167619.39 14167619.51 0.1860 0.0447

Jupiter 34079-06-10 20:24 G 14168320.25 14168320.35 14168320.45 0.0521 0.0316

Jupiter 34079-09-08 01:55 G 14168409.48 14168409.58 14168409.69 0.0519 0.0279

Moon 34081-05-14 02:53 G 14169023.55 14169023.62 14169023.69 0.2649 0.1962

Earth 34081-05-14 03:07 G 14169023.56 14169023.63 14169023.70 0.2655 0.1984 *

Venus 34082-08-02 13:26 G 14169468.95 14169469.06 14169469.17 0.3683 0.0755

Earth 34084-11-16 01:41 G 14170305.41 14170305.57 14170305.73 0.2676 0.0040

Moon 34084-11-16 02:53 G 14170305.46 14170305.62 14170305.78 0.2681 0.0128 *

Jupiter 34085-11-04 20:53 G 14170659.22 14170659.37 14170659.53 0.0507 0.0256

Mars 34086-02-04 02:24 G 14170750.46 14170750.60 14170750.75 0.1678 0.0607

Venus 34086-08-02 22:48 G 14170930.31 14170930.45 14170930.58 0.3687 0.0774

Mars 34086-11-30 05:31 G 14171049.62 14171049.73 14171049.83 0.1868 0.0793

Saturn 34088-02-12 12:14 G 14171488.90 14171489.01 14171489.11 0.0268 0.0166

Venus 34088-02-16 06:29 G 14171492.67 14171492.77 14171492.88 0.3683 0.1202

Saturn 34088-05-10 22:33 G 14171577.31 14171577.44 14171577.57 0.0267 0.0059

Saturn 34088-08-07 08:53 G 14171665.74 14171665.87 14171666.00 0.0266 0.0049

Saturn 34088-11-03 19:26 G 14171754.20 14171754.31 14171754.42 0.0266 0.0157

Saturn 34089-01-31 05:45 G 14171842.74 14171842.74 14171842.75 0.0265 0.0265

Pluto 34089-07-16 21:50 G 14172009.36 14172009.41 14172009.48 0.0069 0.0061

Pluto 34089-10-12 22:19 G 14172097.35 14172097.43 14172097.53 0.0069 0.0051

Pluto 34090-01-08 23:02 G 14172185.36 14172185.46 14172185.57 0.0070 0.0041

Pluto 34090-04-06 23:31 G 14172273.37 14172273.48 14172273.60 0.0070 0.0031

Pluto 34090-07-04 00:00 G 14172361.38 14172361.50 14172361.63 0.0070 0.0021

Pluto 34090-09-30 00:43 G 14172449.40 14172449.53 14172449.66 0.0070 0.0010

Pluto 34090-12-27 01:26 G 14172537.42 14172537.56 14172537.69 0.0070 0.0002

Pluto 34091-03-25 01:55 G 14172625.45 14172625.58 14172625.71 0.0070 0.0010

Jupiter 34091-03-30 00:43 G 14172630.47 14172630.53 14172630.58 0.0522 0.0465

Pluto 34091-06-21 02:24 G 14172713.48 14172713.60 14172713.73 0.0070 0.0020

Jupiter 34091-06-27 06:14 G 14172719.63 14172719.76 14172719.88 0.0519 0.0128

Pluto 34091-09-17 03:07 G 14172801.51 14172801.63 14172801.74 0.0070 0.0031

Pluto 34091-12-14 03:21 G 14172889.55 14172889.64 14172889.76 0.0071 0.0042

Venus 34092-02-17 00:57 G 14172954.47 14172954.54 14172954.62 0.3688 0.3038

Pluto 34092-03-11 04:05 G 14172977.59 14172977.67 14172977.76 0.0071 0.0052

Pluto 34092-06-07 04:19 G 14173065.64 14173065.68 14173065.76 0.0071 0.0063

Venus 34093-08-31 23:45 G 14173516.44 14173516.49 14173516.55 0.3682 0.3215

Moon 34094-05-16 19:55 G 14173774.22 14173774.33 14173774.43 0.2651 0.0768

Earth 34094-05-16 20:24 G 14173774.24 14173774.35 14173774.45 0.2655 0.0681 *

Mars 34095-06-27 04:33 G 14174180.55 14174180.69 14174180.83 0.1671 0.0737

Jupiter 34097-08-23 17:45 G 14174969.06 14174969.24 14174969.42 0.0506 0.0051

Uranus 34103-03-11 20:53 G 14176994.33 14176994.37 14176994.41 0.0135 0.0131

Jupiter 34103-04-16 10:33 G 14177029.81 14177029.94 14177030.07 0.0520 0.0018

Uranus 34103-06-08 03:21 G 14177082.54 14177082.64 14177082.77 0.0135 0.0107

Uranus 34103-09-04 10:19 G 14177170.79 14177170.93 14177171.08 0.0135 0.0082

Saturn 34103-12-01 00:14 G 14177258.41 14177258.51 14177258.62 0.0294 0.0236

Uranus 34103-12-01 16:48 G 14177259.04 14177259.20 14177259.38 0.0134 0.0058

Uranus 34104-02-27 23:31 G 14177347.30 14177347.48 14177347.66 0.0134 0.0033

Saturn 34104-02-28 00:43 G 14177347.35 14177347.53 14177347.71 0.0295 0.0033 *

Uranus 34104-05-26 06:00 G 14177435.57 14177435.75 14177435.94 0.0134 0.0010

Saturn 34104-05-27 00:43 G 14177436.39 14177436.53 14177436.68 0.0296 0.0168

Uranus 34104-08-22 12:29 G 14177523.84 14177524.02 14177524.21 0.0134 0.0016

Uranus 34104-11-18 18:57 G 14177612.12 14177612.29 14177612.47 0.0134 0.0039

Uranus 34105-02-15 01:26 G 14177700.40 14177700.56 14177700.72 0.0134 0.0062

Uranus 34105-05-14 07:26 G 14177788.69 14177788.81 14177788.97 0.0134 0.0086

Uranus 34105-08-10 13:55 G 14177876.99 14177877.08 14177877.19 0.0134 0.0109

Uranus 34105-11-06 20:09 G 14177965.32 14177965.34 14177965.38 0.0134 0.0132

Moon 34107-05-20 13:12 G 14178524.94 14178525.05 14178525.15 0.2657 0.0535

Earth 34107-05-20 13:41 G 14178524.97 14178525.07 14178525.18 0.2655 0.0639 *

Mars 34107-08-19 13:26 G 14178616.05 14178616.06 14178616.08 0.1852 0.1826

Jupiter 34109-06-12 14:53 G 14179278.94 14179279.12 14179279.29 0.0506 0.0153

Jupiter 34115-02-02 15:07 G 14181340.01 14181340.13 14181340.26 0.0521 0.0158

Jupiter 34115-05-02 20:53 G 14181429.31 14181429.37 14181429.44 0.0518 0.0438

Mars 34117-01-08 21:21 G 14182046.28 14182046.39 14182046.51 0.1860 0.0591

Saturn 34117-07-02 14:38 G 14182221.03 14182221.11 14182221.20 0.0268 0.0198

Saturn 34117-09-29 00:57 G 14182309.42 14182309.54 14182309.67 0.0267 0.0091

Earth 34117-11-15 00:14 G 14182356.46 14182356.51 14182356.56 0.2676 0.2530

Moon 34117-11-15 00:43 G 14182356.49 14182356.53 14182356.58 0.2682 0.2563 *

Saturn 34117-12-26 11:17 G 14182397.84 14182397.97 14182398.11 0.0266 0.0019

Saturn 34118-03-24 21:50 G 14182486.29 14182486.41 14182486.53 0.0265 0.0124

Saturn 34118-06-21 08:09 G 14182574.78 14182574.84 14182574.91 0.0265 0.0232

Moon 34120-05-22 06:43 G 14183275.71 14183275.78 14183275.85 0.2660 0.1956

Earth 34120-05-22 07:12 G 14183275.73 14183275.80 14183275.87 0.2655 0.1963 *

Jupiter 34121-03-31 11:17 G 14183588.85 14183588.97 14183589.10 0.0505 0.0361

Jupiter 34121-06-29 20:53 G 14183679.29 14183679.37 14183679.46 0.0508 0.0445

Mars 34125-08-06 03:07 G 14185177.49 14185177.63 14185177.76 0.1678 0.0796

Mars 34126-06-01 05:31 G 14185476.62 14185476.73 14185476.84 0.1867 0.0637

Jupiter 34126-11-21 19:41 G 14185650.22 14185650.32 14185650.43 0.0521 0.0301

Jupiter 34127-02-19 01:12 G 14185739.45 14185739.55 14185739.66 0.0519 0.0294

Moon 34127-05-16 07:26 G 14185825.74 14185825.81 14185825.89 0.2649 0.1800

Earth 34127-05-16 07:55 G 14185825.74 14185825.83 14185825.91 0.2655 0.1717 *

Earth 34130-11-18 08:24 G 14187107.69 14187107.85 14187108.01 0.2676 0.0529

Moon 34130-11-18 09:36 G 14187107.75 14187107.90 14187108.05 0.2681 0.0707 *

Jupiter 34133-04-17 18:43 G 14187989.13 14187989.28 14187989.44 0.0507 0.0254

Saturn 34133-07-16 21:36 G 14188079.23 14188079.40 14188079.57 0.0295 0.0101

Venus 34133-08-24 18:14 G 14188118.17 14188118.26 14188118.35 0.3684 0.1992

Saturn 34133-10-13 21:50 G 14188168.24 14188168.41 14188168.58 0.0295 0.0101

Mars 34134-12-27 05:17 G 14188607.57 14188607.72 14188607.87 0.1671 0.0531

Mars 34135-10-22 13:41 G 14188907.06 14188907.07 14188907.08 0.1875 0.1866

Venus 34137-08-24 20:24 G 14189579.30 14189579.35 14189579.39 0.3687 0.3456

Jupiter 34138-09-09 23:17 G 14189960.42 14189960.47 14189960.53 0.0522 0.0461

Jupiter 34138-12-08 04:48 G 14190049.58 14190049.70 14190049.83 0.0519 0.0131

Venus 34139-03-10 11:17 G 14190141.86 14190141.97 14190142.08 0.3683 0.0078

Moon 34140-05-18 00:29 G 14190576.42 14190576.52 14190576.63 0.2652 0.0480

Earth 34140-05-18 01:12 G 14190576.44 14190576.55 14190576.66 0.2655 0.0415 *

Venus 34143-03-10 23:02 G 14191603.33 14191603.46 14191603.60 0.3687 0.0539

Venus 34144-09-23 04:19 G 14192165.59 14192165.68 14192165.78 0.3683 0.1912

Jupiter 34145-02-03 16:48 G 14192299.02 14192299.20 14192299.38 0.0507 0.0064

Uranus 34146-05-27 18:29 G 14192777.22 14192777.27 14192777.35 0.0144 0.0125

Uranus 34146-08-23 22:19 G 14192865.35 14192865.43 14192865.53 0.0144 0.0104

Saturn 34146-11-19 17:45 G 14192953.17 14192953.24 14192953.31 0.0268 0.0225

Uranus 34146-11-20 02:09 G 14192953.48 14192953.59 14192953.70 0.0144 0.0082

Saturn 34147-02-16 04:05 G 14193041.55 14193041.67 14193041.79 0.0267 0.0118

Uranus 34147-02-16 06:00 G 14193041.63 14193041.75 14193041.87 0.0144 0.0061 *

Uranus 34147-05-15 09:50 G 14193129.78 14193129.91 14193130.04 0.0144 0.0039

Saturn 34147-05-15 14:24 G 14193129.97 14193130.10 14193130.24 0.0267 0.0011 *

Uranus 34147-08-11 13:41 G 14193217.94 14193218.07 14193218.21 0.0144 0.0018

Saturn 34147-08-12 00:43 G 14193218.41 14193218.53 14193218.66 0.0266 0.0098

Uranus 34147-11-07 17:31 G 14193306.10 14193306.23 14193306.37 0.0144 0.0005

Saturn 34147-11-08 11:17 G 14193306.89 14193306.97 14193307.06 0.0265 0.0205

Uranus 34148-02-03 21:21 G 14193394.26 14193394.39 14193394.53 0.0144 0.0026

Uranus 34148-05-02 01:26 G 14193482.43 14193482.56 14193482.69 0.0144 0.0048

Uranus 34148-07-29 05:17 G 14193570.60 14193570.72 14193570.84 0.0144 0.0070

Uranus 34148-10-25 09:07 G 14193658.78 14193658.88 14193658.99 0.0144 0.0093

Neptune 34148-12-12 12:14 G 14193706.95 14193707.01 14193707.07 0.0089 0.0083

Uranus 34149-01-21 13:12 G 14193746.97 14193747.05 14193747.14 0.0144 0.0115

Neptune 34149-03-10 15:21 G 14193795.04 14193795.14 14193795.26 0.0089 0.0073

Uranus 34149-04-19 17:02 G 14193835.19 14193835.21 14193835.26 0.0144 0.0139

Neptune 34149-06-06 18:29 G 14193883.16 14193883.27 14193883.43 0.0089 0.0063

Neptune 34149-09-02 22:19 G 14193971.28 14193971.43 14193971.59 0.0089 0.0052

Neptune 34149-11-30 01:26 G 14194059.41 14194059.56 14194059.74 0.0089 0.0042

Neptune 34150-02-26 05:17 G 14194147.54 14194147.72 14194147.89 0.0089 0.0031

Neptune 34150-05-25 08:24 G 14194235.67 14194235.85 14194236.04 0.0089 0.0021

Neptune 34150-08-21 11:45 G 14194323.81 14194323.99 14194324.19 0.0089 0.0011

Jupiter 34150-09-26 09:07 G 14194359.75 14194359.88 14194360.00 0.0520 0.0026

Neptune 34150-11-17 15:21 G 14194411.95 14194412.14 14194412.33 0.0089 0.0001

Neptune 34151-02-13 18:29 G 14194500.09 14194500.27 14194500.46 0.0089 0.0010

Neptune 34151-05-12 21:50 G 14194588.23 14194588.41 14194588.60 0.0089 0.0020

Neptune 34151-08-09 01:12 G 14194676.38 14194676.55 14194676.73 0.0089 0.0030

Neptune 34151-11-05 04:19 G 14194764.53 14194764.68 14194764.86 0.0089 0.0041

Neptune 34152-02-01 07:41 G 14194852.68 14194852.82 14194852.98 0.0089 0.0051

Neptune 34152-04-29 10:48 G 14194940.83 14194940.95 14194941.10 0.0089 0.0061

Neptune 34152-07-26 14:09 G 14195028.99 14195029.09 14195029.21 0.0089 0.0071

Neptune 34152-10-22 17:17 G 14195117.16 14195117.22 14195117.31 0.0089 0.0081

Moon 34153-05-20 17:45 G 14195327.14 14195327.24 14195327.35 0.2658 0.0819

Earth 34153-05-20 18:29 G 14195327.17 14195327.27 14195327.37 0.2655 0.0906 *

Mars 34156-07-09 21:21 G 14196473.29 14196473.39 14196473.50 0.1860 0.0750

Jupiter 34156-11-22 13:41 G 14196608.89 14196609.07 14196609.24 0.0506 0.0140

Jupiter 34162-07-15 13:26 G 14198669.94 14198670.06 14198670.18 0.0521 0.0163

Jupiter 34162-10-12 19:12 G 14198759.23 14198759.30 14198759.37 0.0518 0.0433

Saturn 34162-12-03 19:41 G 14198811.17 14198811.32 14198811.48 0.0295 0.0163

Saturn 34163-03-02 20:09 G 14198900.16 14198900.34 14198900.52 0.0296 0.0040

Saturn 34163-05-30 19:55 G 14198989.24 14198989.33 14198989.44 0.0297 0.0241

Earth 34163-11-16 06:57 G 14199158.69 14199158.79 14199158.90 0.2676 0.1953

Moon 34163-11-16 07:41 G 14199158.71 14199158.82 14199158.94 0.2683 0.1760 *

Mars 34165-02-04 03:36 G 14199604.52 14199604.65 14199604.78 0.1678 0.0986

Mars 34165-11-30 05:31 G 14199903.62 14199903.73 14199903.85 0.1867 0.0483

Moon 34166-05-23 11:45 G 14200077.93 14200077.99 14200078.05 0.2661 0.2175

Earth 34166-05-23 12:00 G 14200077.94 14200078.00 14200078.05 0.2655 0.2239 *

Jupiter 34168-09-10 10:33 G 14200918.81 14200918.94 14200919.07 0.0505 0.0343

Jupiter 34168-12-09 19:55 G 14201009.26 14201009.33 14201009.40 0.0507 0.0461

Moon 34173-05-16 12:14 G 14202627.92 14202628.01 14202628.10 0.2649 0.1436

Earth 34173-05-16 12:29 G 14202627.93 14202628.02 14202628.11 0.2655 0.1453 *

Jupiter 34174-05-03 18:14 G 14202980.15 14202980.26 14202980.36 0.0521 0.0302

Mars 34174-06-27 05:45 G 14203034.59 14203034.74 14203034.90 0.1672 0.0340

Jupiter 34174-07-31 23:45 G 14203069.39 14203069.49 14203069.60 0.0519 0.0293

Mars 34175-04-22 13:41 G 14203334.02 14203334.07 14203334.11 0.1875 0.1725

Pluto 34175-05-27 22:19 G 14203369.35 14203369.43 14203369.55 0.0075 0.0065

Pluto 34175-08-24 01:12 G 14203457.40 14203457.55 14203457.72 0.0075 0.0046

Pluto 34175-11-20 03:50 G 14203545.48 14203545.66 14203545.86 0.0075 0.0027

Pluto 34176-02-16 06:29 G 14203633.58 14203633.77 14203633.98 0.0074 0.0009

Saturn 34176-04-07 20:09 G 14203685.31 14203685.34 14203685.37 0.0268 0.0258

Pluto 34176-05-14 09:21 G 14203721.69 14203721.89 14203722.09 0.0074 0.0011

Saturn 34176-07-05 06:29 G 14203773.66 14203773.77 14203773.88 0.0267 0.0151

Pluto 34176-08-10 11:45 G 14203809.81 14203809.99 14203810.18 0.0074 0.0029

Saturn 34176-10-01 16:48 G 14203862.07 14203862.20 14203862.33 0.0266 0.0044

Pluto 34176-11-06 13:55 G 14203897.95 14203898.08 14203898.26 0.0074 0.0049

Earth 34176-11-18 15:07 G 14203909.99 14203910.13 14203910.27 0.2676 0.1101

Moon 34176-11-18 16:33 G 14203910.05 14203910.19 14203910.33 0.2680 0.1228 *

Saturn 34176-12-29 03:07 G 14203950.50 14203950.63 14203950.76 0.0266 0.0063

Pluto 34177-02-02 16:48 G 14203986.13 14203986.20 14203986.30 0.0074 0.0066

Saturn 34177-03-27 13:26 G 14204038.96 14204039.06 14204039.17 0.0265 0.0171

Jupiter 34180-09-27 17:02 G 14205319.05 14205319.21 14205319.36 0.0507 0.0258

Venus 34184-09-14 23:17 G 14206767.42 14206767.47 14206767.52 0.3685 0.3209

Jupiter 34186-02-19 22:48 G 14207290.39 14207290.45 14207290.52 0.0522 0.0443

Moon 34186-05-19 05:17 G 14207378.61 14207378.72 14207378.83 0.2654 0.0276

Earth 34186-05-19 06:00 G 14207378.64 14207378.75 14207378.85 0.2655 0.0172 *

Jupiter 34186-05-20 04:19 G 14207379.56 14207379.68 14207379.80 0.0519 0.0150

Uranus 34187-04-01 03:50 G 14207695.60 14207695.66 14207695.73 0.0135 0.0125

Uranus 34187-06-28 10:19 G 14207783.82 14207783.93 14207784.07 0.0135 0.0101

Uranus 34187-09-24 17:17 G 14207872.07 14207872.22 14207872.38 0.0134 0.0076

Uranus 34187-12-21 23:45 G 14207960.33 14207960.49 14207960.67 0.0134 0.0052

Uranus 34188-03-19 06:29 G 14208048.59 14208048.77 14208048.96 0.0134 0.0027

Uranus 34188-06-15 13:12 G 14208136.86 14208137.05 14208137.23 0.0134 0.0003

Uranus 34188-09-11 19:41 G 14208225.14 14208225.32 14208225.50 0.0134 0.0021

Uranus 34188-12-09 01:55 G 14208313.41 14208313.58 14208313.76 0.0134 0.0045

Uranus 34189-03-07 08:24 G 14208401.70 14208401.85 14208402.01 0.0134 0.0068

Uranus 34189-06-03 14:38 G 14208489.99 14208490.11 14208490.25 0.0134 0.0092

Uranus 34189-08-30 20:53 G 14208578.29 14208578.37 14208578.47 0.0134 0.0115

Venus 34190-03-31 16:05 G 14208791.07 14208791.17 14208791.27 0.3684 0.1327

Saturn 34192-04-21 15:50 G 14209543.05 14209543.16 14209543.26 0.0294 0.0237

Jupiter 34192-07-16 14:53 G 14209628.94 14209629.12 14209629.30 0.0507 0.0069

Saturn 34192-07-19 16:19 G 14209632.00 14209632.18 14209632.36 0.0295 0.0035

Saturn 34192-10-16 16:19 G 14209721.03 14209721.18 14209721.33 0.0296 0.0167

Venus 34194-03-31 20:53 G 14210252.25 14210252.37 14210252.48 0.3687 0.2109

Venus 34195-10-15 09:07 G 14210814.77 14210814.88 14210814.99 0.3683 0.0614

Mars 34196-01-08 21:21 G 14210900.29 14210900.39 14210900.50 0.1859 0.0898

Jupiter 34198-03-08 07:55 G 14211689.70 14211689.83 14211689.96 0.0520 0.0011

Moon 34199-05-21 22:33 G 14212129.34 14212129.44 14212129.54 0.2658 0.1100

Earth 34199-05-21 23:17 G 14212129.37 14212129.47 14212129.57 0.2655 0.1177 *

Venus 34199-10-15 23:17 G 14212276.35 14212276.47 14212276.59 0.3688 0.1796

Venus 34201-05-01 02:24 G 14212838.52 14212838.60 14212838.67 0.3682 0.2611

Jupiter 34204-05-05 12:43 G 14213938.86 14213939.03 14213939.21 0.0506 0.0122

Mars 34204-08-06 04:05 G 14214031.56 14214031.67 14214031.78 0.1678 0.1186

Mars 34205-06-01 05:31 G 14214330.61 14214330.73 14214330.84 0.1867 0.0348

Saturn 34205-11-23 09:21 G 14214505.79 14214505.89 14214505.98 0.0268 0.0182

Saturn 34206-02-19 19:26 G 14214594.19 14214594.31 14214594.44 0.0267 0.0075

Moon 34206-05-16 00:00 G 14214679.46 14214679.50 14214679.55 0.2649 0.2413

Earth 34206-05-16 00:00 G 14214679.47 14214679.50 14214679.54 0.2655 0.2474 *

Saturn 34206-05-19 06:00 G 14214682.61 14214682.75 14214682.88 0.0266 0.0034

Saturn 34206-08-15 16:19 G 14214771.07 14214771.18 14214771.30 0.0266 0.0141

Saturn 34206-11-12 02:38 G 14214859.57 14214859.61 14214859.66 0.0265 0.0249

Earth 34209-11-17 13:55 G 14215960.94 14215961.08 14215961.22 0.2676 0.1359

Moon 34209-11-17 14:38 G 14215960.98 14215961.11 14215961.25 0.2683 0.1374 *

Jupiter 34209-12-26 12:14 G 14215999.88 14216000.01 14216000.13 0.0520 0.0159

Jupiter 34210-03-25 17:45 G 14216089.18 14216089.24 14216089.31 0.0518 0.0436

Moon 34212-05-24 16:33 G 14216880.16 14216880.19 14216880.23 0.2662 0.2510

Earth 34212-05-24 16:48 G 14216880.17 14216880.20 14216880.23 0.2655 0.2511 *

Mars 34213-12-27 06:14 G 14217461.60 14217461.76 14217461.92 0.1672 0.0156

Mars 34214-10-22 13:41 G 14217761.01 14217761.07 14217761.14 0.1875 0.1562

Jupiter 34216-02-22 09:50 G 14218248.77 14218248.91 14218249.05 0.0505 0.0324

Jupiter 34216-05-22 19:12 G 14218339.24 14218339.30 14218339.36 0.0507 0.0479

Moon 34219-05-18 17:02 G 14219430.11 14219430.21 14219430.30 0.2649 0.1289

Earth 34219-05-18 17:17 G 14219430.13 14219430.22 14219430.32 0.2655 0.1180 *

Jupiter 34221-10-14 16:33 G 14220310.09 14220310.19 14220310.29 0.0521 0.0303

Saturn 34221-12-07 13:55 G 14220363.91 14220364.08 14220364.25 0.0295 0.0099

Jupiter 34222-01-11 22:05 G 14220399.32 14220399.42 14220399.53 0.0519 0.0292

Saturn 34222-03-06 14:09 G 14220452.92 14220453.09 14220453.26 0.0296 0.0104

Earth 34222-11-20 21:50 G 14220712.29 14220712.41 14220712.53 0.2676 0.1663

Moon 34222-11-20 23:31 G 14220712.37 14220712.48 14220712.58 0.2678 0.1958 *

Mars 34223-05-19 08:38 G 14220891.78 14220891.86 14220891.93 0.1666 0.1478

Jupiter 34228-03-10 16:33 G 14222649.04 14222649.19 14222649.34 0.0507 0.0281

Neptune 34229-04-03 06:29 G 14223037.77 14223037.77 14223037.80 0.0089 0.0088

Neptune 34229-06-30 07:55 G 14223125.79 14223125.83 14223125.89 0.0089 0.0081

Neptune 34229-09-26 09:07 G 14223213.82 14223213.88 14223213.97 0.0089 0.0074

Neptune 34229-12-23 10:48 G 14223301.87 14223301.95 14223302.04 0.0089 0.0066

Neptune 34230-03-21 12:14 G 14223389.91 14223390.01 14223390.11 0.0089 0.0059

Uranus 34230-03-21 21:36 G 14223390.40 14223390.40 14223390.42 0.0143 0.0143

Neptune 34230-06-17 13:26 G 14223477.96 14223478.06 14223478.17 0.0089 0.0052

Uranus 34230-06-18 01:26 G 14223478.49 14223478.56 14223478.63 0.0144 0.0122

Neptune 34230-09-13 14:53 G 14223566.01 14223566.12 14223566.24 0.0088 0.0044

Uranus 34230-09-14 05:02 G 14223566.62 14223566.71 14223566.81 0.0144 0.0101

Neptune 34230-12-10 16:05 G 14223654.06 14223654.17 14223654.30 0.0088 0.0038

Uranus 34230-12-11 08:53 G 14223654.76 14223654.87 14223654.99 0.0144 0.0080

Neptune 34231-03-08 17:45 G 14223742.11 14223742.24 14223742.36 0.0088 0.0030

Uranus 34231-03-09 12:43 G 14223742.91 14223743.03 14223743.16 0.0144 0.0058

Neptune 34231-06-04 18:57 G 14223830.16 14223830.29 14223830.43 0.0088 0.0023

Uranus 34231-06-05 16:33 G 14223831.06 14223831.19 14223831.32 0.0144 0.0036

Neptune 34231-08-31 20:24 G 14223918.22 14223918.35 14223918.49 0.0088 0.0015

Uranus 34231-09-01 20:24 G 14223919.22 14223919.35 14223919.49 0.0144 0.0015

Neptune 34231-11-27 21:50 G 14224006.27 14224006.41 14224006.54 0.0088 0.0008

Uranus 34231-11-29 00:14 G 14224007.38 14224007.51 14224007.65 0.0144 0.0008

Neptune 34232-02-23 23:17 G 14224094.33 14224094.47 14224094.60 0.0088 0.0002

Uranus 34232-02-25 04:19 G 14224095.54 14224095.68 14224095.81 0.0144 0.0029

Moon 34232-05-20 10:05 G 14224180.81 14224180.92 14224181.02 0.2655 0.0138

Earth 34232-05-20 10:33 G 14224180.84 14224180.94 14224181.05 0.2655 0.0163 *

Neptune 34232-05-22 00:29 G 14224182.39 14224182.52 14224182.66 0.0088 0.0008

Uranus 34232-05-23 08:09 G 14224183.71 14224183.84 14224183.97 0.0144 0.0051

Neptune 34232-08-18 01:55 G 14224270.45 14224270.58 14224270.72 0.0088 0.0014

Uranus 34232-08-19 12:00 G 14224271.89 14224272.00 14224272.12 0.0144 0.0074

Neptune 34232-11-14 03:21 G 14224358.51 14224358.64 14224358.77 0.0088 0.0021

Uranus 34232-11-15 15:50 G 14224360.07 14224360.16 14224360.27 0.0144 0.0097

Neptune 34233-02-10 04:48 G 14224446.57 14224446.70 14224446.83 0.0088 0.0029

Uranus 34233-02-11 20:09 G 14224448.26 14224448.34 14224448.41 0.0144 0.0119

Neptune 34233-05-09 06:00 G 14224534.63 14224534.75 14224534.88 0.0088 0.0037

Uranus 34233-05-11 00:00 G 14224536.48 14224536.50 14224536.53 0.0144 0.0141

Jupiter 34233-08-02 21:21 G 14224620.32 14224620.39 14224620.46 0.0522 0.0442

Neptune 34233-08-05 07:26 G 14224622.70 14224622.81 14224622.94 0.0088 0.0044

Jupiter 34233-10-31 02:53 G 14224709.50 14224709.62 14224709.74 0.0520 0.0152

Neptune 34233-11-01 08:53 G 14224710.77 14224710.87 14224710.99 0.0088 0.0051

Neptune 34234-01-28 10:19 G 14224798.83 14224798.93 14224799.04 0.0088 0.0058

Neptune 34234-04-26 11:45 G 14224886.91 14224886.99 14224887.08 0.0088 0.0066

Neptune 34234-07-23 12:57 G 14224974.98 14224975.04 14224975.13 0.0088 0.0074

Neptune 34234-10-19 14:38 G 14225063.06 14225063.11 14225063.17 0.0088 0.0081

Neptune 34235-01-15 16:05 G 14225151.17 14225151.17 14225151.18 0.0088 0.0088

Saturn 34235-04-12 11:31 G 14225237.90 14225237.98 14225238.05 0.0268 0.0217

Saturn 34235-07-09 21:50 G 14225326.28 14225326.41 14225326.53 0.0267 0.0110

Mars 34235-07-10 21:36 G 14225327.30 14225327.40 14225327.49 0.1859 0.1045

Saturn 34235-10-06 08:09 G 14225414.70 14225414.84 14225414.97 0.0266 0.0007

Saturn 34236-01-02 18:29 G 14225503.14 14225503.27 14225503.39 0.0265 0.0105

Saturn 34236-03-31 04:48 G 14225591.63 14225591.70 14225591.78 0.0265 0.0213

Jupiter 34239-12-28 13:26 G 14226958.88 14226959.06 14226959.24 0.0506 0.0079

Venus 34241-04-22 20:53 G 14227440.30 14227440.37 14227440.45 0.3684 0.2559

Mars 34244-02-05 04:48 G 14228458.61 14228458.70 14228458.78 0.1678 0.1379

Mars 34244-11-30 05:31 G 14228757.61 14228757.73 14228757.85 0.1867 0.0189

Moon 34245-05-23 03:21 G 14228931.55 14228931.64 14228931.74 0.2659 0.1348

Earth 34245-05-23 04:05 G 14228931.58 14228931.67 14228931.76 0.2655 0.1448 *

Jupiter 34245-08-19 07:26 G 14229019.68 14229019.81 14229019.94 0.0520 0.0012

Venus 34246-11-06 13:55 G 14229463.97 14229464.08 14229464.19 0.3684 0.0647

Venus 34250-11-06 21:07 G 14230925.25 14230925.38 14230925.52 0.3687 0.0791

Saturn 34251-04-26 08:53 G 14231095.74 14231095.87 14231096.02 0.0294 0.0182

Saturn 34251-07-24 09:21 G 14231184.71 14231184.89 14231185.08 0.0295 0.0023

Jupiter 34251-10-16 11:31 G 14231268.80 14231268.98 14231269.16 0.0506 0.0112

Saturn 34251-10-21 09:21 G 14231273.78 14231273.89 14231274.01 0.0296 0.0223

Moon 34252-05-16 04:48 G 14231481.64 14231481.70 14231481.75 0.2648 0.2244

Earth 34252-05-16 04:48 G 14231481.64 14231481.70 14231481.76 0.2655 0.2207 *

Venus 34252-05-22 06:57 G 14231487.69 14231487.79 14231487.89 0.3683 0.1319

Mars 34253-06-27 06:57 G 14231888.63 14231888.79 14231888.95 0.1672 0.0052

Mars 34254-04-22 13:41 G 14232187.99 14232188.07 14232188.14 0.1874 0.1429

Earth 34255-11-18 20:38 G 14232763.21 14232763.36 14232763.52 0.2676 0.0775

Moon 34255-11-18 21:36 G 14232763.25 14232763.40 14232763.55 0.2682 0.0553 *

Venus 34256-05-22 23:45 G 14232949.41 14232949.49 14232949.56 0.3688 0.3075

Jupiter 34257-06-07 11:17 G 14233329.84 14233329.97 14233330.09 0.0520 0.0148

Jupiter 34257-09-04 16:48 G 14233419.14 14233419.20 14233419.27 0.0518 0.0447

Venus 34257-12-06 00:14 G 14233511.46 14233511.51 14233511.55 0.3682 0.3328

Mars 34262-11-17 09:07 G 14235318.78 14235318.88 14235318.98 0.1665 0.1278

Jupiter 34263-08-04 09:07 G 14235578.74 14235578.88 14235579.03 0.0506 0.0303

Jupiter 34263-11-02 18:43 G 14235669.26 14235669.28 14235669.30 0.0508 0.0503

Saturn 34264-08-29 13:55 G 14235970.04 14235970.08 14235970.13 0.0268 0.0251

Saturn 34264-11-26 00:14 G 14236058.40 14236058.51 14236058.63 0.0268 0.0143

Saturn 34265-02-22 10:33 G 14236146.81 14236146.94 14236147.08 0.0267 0.0036

Moon 34265-05-18 21:36 G 14236232.30 14236232.40 14236232.50 0.2650 0.0923

Earth 34265-05-18 22:05 G 14236232.32 14236232.42 14236232.52 0.2655 0.0914 *

Saturn 34265-05-21 21:07 G 14236235.25 14236235.38 14236235.51 0.0266 0.0073

Saturn 34265-08-18 07:26 G 14236323.71 14236323.81 14236323.91 0.0265 0.0181

Earth 34268-11-21 04:33 G 14237514.61 14237514.69 14237514.78 0.2676 0.2245

Moon 34268-11-21 06:29 G 14237514.70 14237514.77 14237514.84 0.2678 0.2359 *

Jupiter 34269-03-26 15:36 G 14237640.04 14237640.15 14237640.25 0.0521 0.0295

Jupiter 34269-06-23 21:07 G 14237729.27 14237729.38 14237729.48 0.0519 0.0299

Uranus 34271-04-22 10:19 G 14238396.85 14238396.93 14238397.01 0.0135 0.0121

Uranus 34271-07-19 16:48 G 14238485.09 14238485.20 14238485.34 0.0135 0.0097

Uranus 34271-10-15 23:45 G 14238573.34 14238573.49 14238573.65 0.0134 0.0072

Uranus 34272-01-12 06:14 G 14238661.60 14238661.76 14238661.94 0.0134 0.0048

Uranus 34272-04-09 12:57 G 14238749.86 14238750.04 14238750.23 0.0134 0.0023

Uranus 34272-07-06 19:41 G 14238838.13 14238838.32 14238838.50 0.0134 0.0002

Uranus 34272-10-03 02:09 G 14238926.41 14238926.59 14238926.77 0.0134 0.0025

Uranus 34272-12-30 08:24 G 14239014.69 14239014.85 14239015.03 0.0134 0.0049

Uranus 34273-03-28 14:38 G 14239102.97 14239103.11 14239103.28 0.0134 0.0073

Uranus 34273-06-24 21:07 G 14239191.27 14239191.38 14239191.52 0.0134 0.0096

Uranus 34273-09-21 03:36 G 14239279.57 14239279.65 14239279.74 0.0134 0.0119

Mars 34275-01-08 21:36 G 14239754.31 14239754.40 14239754.49 0.1859 0.1200

Jupiter 34275-05-23 06:14 G 14239888.75 14239888.76 14239888.77 0.0505 0.0503

Jupiter 34275-08-21 16:05 G 14239979.03 14239979.17 14239979.31 0.0507 0.0304

Moon 34278-05-21 14:38 G 14240983.00 14240983.11 14240983.22 0.2655 0.0245

Earth 34278-05-21 15:21 G 14240983.03 14240983.14 14240983.25 0.2655 0.0404 *

Saturn 34280-09-12 06:14 G 14241827.67 14241827.76 14241827.86 0.0294 0.0250

Saturn 34280-12-10 06:43 G 14241916.60 14241916.78 14241916.96 0.0295 0.0046

Jupiter 34281-01-12 19:55 G 14241950.27 14241950.33 14241950.40 0.0522 0.0439

Saturn 34281-03-09 06:57 G 14242005.64 14242005.79 14242005.94 0.0296 0.0157

Jupiter 34281-04-12 01:26 G 14242039.44 14242039.56 14242039.68 0.0520 0.0154

Mars 34283-08-06 05:17 G 14242885.66 14242885.72 14242885.77 0.1679 0.1565

Mars 34284-05-31 05:31 G 14243184.62 14243184.73 14243184.85 0.1867 0.0081

Jupiter 34287-06-09 13:26 G 14244288.88 14244289.06 14244289.23 0.0506 0.0106

Moon 34291-05-24 08:24 G 14245733.77 14245733.85 14245733.93 0.2660 0.1708

Earth 34291-05-24 08:53 G 14245733.79 14245733.87 14245733.95 0.2655 0.1722 *

Mars 34292-12-26 07:41 G 14246315.66 14246315.82 14246315.98 0.1672 0.0253

Jupiter 34293-01-29 06:14 G 14246349.63 14246349.76 14246349.89 0.0520 0.0017

Mars 34293-10-21 13:41 G 14246614.99 14246615.07 14246615.16 0.1874 0.1275

Saturn 34294-04-15 02:24 G 14246790.50 14246790.60 14246790.70 0.0267 0.0179

Saturn 34294-07-12 12:43 G 14246878.90 14246879.03 14246879.16 0.0267 0.0071

Saturn 34294-10-08 23:02 G 14246967.33 14246967.46 14246967.59 0.0266 0.0036

Saturn 34295-01-05 09:21 G 14247055.78 14247055.89 14247056.01 0.0265 0.0144

Saturn 34295-04-03 19:55 G 14247144.29 14247144.33 14247144.37 0.0265 0.0252

Venus 34297-11-27 18:43 G 14248113.19 14248113.28 14248113.37 0.3684 0.1886

Moon 34298-05-17 09:21 G 14248283.82 14248283.89 14248283.97 0.2648 0.1930

Earth 34298-05-17 09:36 G 14248283.83 14248283.90 14248283.97 0.2655 0.1940 *

Jupiter 34299-03-28 10:19 G 14248598.75 14248598.93 14248599.11 0.0506 0.0098

Earth 34301-11-20 03:21 G 14249565.48 14249565.64 14249565.80 0.2676 0.0205

Moon 34301-11-20 04:33 G 14249565.54 14249565.69 14249565.85 0.2681 0.0154 *

Venus 34301-11-28 18:43 G 14249574.24 14249574.28 14249574.33 0.3686 0.3480

Mars 34302-05-19 09:36 G 14249745.78 14249745.90 14249746.03 0.1666 0.1087

Venus 34303-06-14 11:45 G 14250136.88 14250136.99 14250137.10 0.3683 0.0060

Jupiter 34304-11-18 10:48 G 14250659.83 14250659.95 14250660.08 0.0521 0.0125

Jupiter 34305-02-15 16:33 G 14250749.14 14250749.19 14250749.24 0.0518 0.0471

Venus 34307-06-14 21:36 G 14251598.26 14251598.40 14251598.54 0.3687 0.0539

Venus 34308-12-28 04:48 G 14252160.61 14252160.70 14252160.79 0.3683 0.2028

Saturn 34310-04-30 01:41 G 14252648.41 14252648.57 14252648.74 0.0294 0.0130

Saturn 34310-07-28 02:09 G 14252737.41 14252737.59 14252737.76 0.0295 0.0073

Saturn 34310-10-25 01:55 G 14252826.52 14252826.58 14252826.65 0.0296 0.0274

Jupiter 34311-01-15 08:09 G 14252908.69 14252908.84 14252908.99 0.0505 0.0288

Moon 34311-05-21 02:24 G 14253034.49 14253034.60 14253034.70 0.2652 0.0767

Earth 34311-05-21 02:53 G 14253034.51 14253034.62 14253034.73 0.2655 0.0642 *

Neptune 34313-06-14 07:26 G 14253789.81 14253789.81 14253789.84 0.0089 0.0089

Neptune 34313-09-10 11:02 G 14253877.88 14253877.96 14253878.06 0.0089 0.0078

Neptune 34313-12-07 14:09 G 14253965.99 14253966.09 14253966.23 0.0089 0.0068

Neptune 34314-03-05 18:00 G 14254054.11 14254054.25 14254054.40 0.0089 0.0057

Uranus 34314-04-12 04:05 G 14254091.66 14254091.67 14254091.71 0.0143 0.0141

Neptune 34314-06-01 21:07 G 14254142.24 14254142.38 14254142.56 0.0089 0.0047

Uranus 34314-07-09 07:55 G 14254179.77 14254179.83 14254179.91 0.0143 0.0120

Mars 34314-07-10 21:36 G 14254181.32 14254181.40 14254181.48 0.1859 0.1348

Neptune 34314-08-29 00:57 G 14254230.37 14254230.54 14254230.71 0.0089 0.0036

Uranus 34314-10-05 11:45 G 14254267.90 14254267.99 14254268.09 0.0144 0.0098

Neptune 34314-11-25 04:05 G 14254318.50 14254318.67 14254318.86 0.0089 0.0026

Uranus 34315-01-01 15:36 G 14254356.04 14254356.15 14254356.26 0.0144 0.0077

Neptune 34315-02-21 07:26 G 14254406.63 14254406.81 14254407.01 0.0089 0.0016

Uranus 34315-03-30 19:26 G 14254444.18 14254444.31 14254444.43 0.0144 0.0056

Neptune 34315-05-20 11:02 G 14254494.77 14254494.96 14254495.15 0.0089 0.0005

Uranus 34315-06-26 23:17 G 14254532.34 14254532.47 14254532.60 0.0144 0.0034

Neptune 34315-08-16 14:24 G 14254582.91 14254583.10 14254583.29 0.0089 0.0005

Uranus 34315-09-23 03:07 G 14254620.49 14254620.63 14254620.76 0.0144 0.0013

Neptune 34315-11-12 17:31 G 14254671.06 14254671.23 14254671.43 0.0089 0.0016

Uranus 34315-12-20 06:57 G 14254708.65 14254708.79 14254708.93 0.0144 0.0010

Neptune 34316-02-08 20:53 G 14254759.20 14254759.37 14254759.56 0.0089 0.0026

Uranus 34316-03-17 10:48 G 14254796.82 14254796.95 14254797.08 0.0144 0.0031

Neptune 34316-05-07 00:14 G 14254847.35 14254847.51 14254847.69 0.0089 0.0036

Uranus 34316-06-13 14:38 G 14254884.99 14254885.11 14254885.24 0.0144 0.0054

Neptune 34316-08-03 03:36 G 14254935.50 14254935.65 14254935.82 0.0089 0.0046

Jupiter 34316-09-06 14:38 G 14254970.01 14254970.11 14254970.22 0.0521 0.0281

Uranus 34316-09-09 18:29 G 14254973.16 14254973.27 14254973.40 0.0144 0.0077

Neptune 34316-10-30 06:57 G 14255023.65 14255023.79 14255023.94 0.0089 0.0056

Jupiter 34316-12-04 20:09 G 14255059.24 14255059.34 14255059.45 0.0518 0.0313

Uranus 34316-12-06 22:33 G 14255061.35 14255061.44 14255061.54 0.0144 0.0098

Neptune 34317-01-26 10:19 G 14255111.81 14255111.93 14255112.05 0.0089 0.0066

Uranus 34317-03-05 02:24 G 14255149.54 14255149.60 14255149.68 0.0144 0.0121

Neptune 34317-04-24 13:12 G 14255199.97 14255200.05 14255200.16 0.0089 0.0077

Uranus 34317-06-01 06:43 G 14255237.77 14255237.78 14255237.79 0.0144 0.0143

Neptune 34317-07-21 16:19 G 14255288.16 14255288.18 14255288.24 0.0089 0.0087

Jupiter 34322-11-03 05:45 G 14257218.69 14257218.74 14257218.80 0.0505 0.0480

Jupiter 34323-02-01 15:50 G 14257309.02 14257309.16 14257309.29 0.0507 0.0330

Saturn 34323-09-03 04:33 G 14257522.62 14257522.69 14257522.77 0.0268 0.0215

Saturn 34323-11-30 14:53 G 14257611.00 14257611.12 14257611.25 0.0268 0.0107

Mars 34323-12-01 05:31 G 14257611.61 14257611.73 14257611.85 0.1867 0.0110

Saturn 34324-02-27 01:26 G 14257699.42 14257699.56 14257699.69 0.0267 0.0009

Moon 34324-05-22 19:26 G 14257785.21 14257785.31 14257785.42 0.2656 0.0632

Earth 34324-05-22 20:09 G 14257785.24 14257785.34 14257785.45 0.2655 0.0667 *

Saturn 34324-05-25 11:45 G 14257787.87 14257787.99 14257788.11 0.0266 0.0109

Saturn 34324-08-21 22:05 G 14257876.35 14257876.42 14257876.50 0.0265 0.0218

Jupiter 34328-06-25 19:12 G 14259280.22 14259280.30 14259280.37 0.0521 0.0427

Jupiter 34328-09-23 00:29 G 14259369.40 14259369.52 14259369.64 0.0519 0.0166

Mars 34332-06-27 07:55 G 14260742.68 14260742.83 14260742.99 0.1672 0.0433

Mars 34333-04-22 13:41 G 14261041.98 14261042.07 14261042.17 0.1874 0.1119

Jupiter 34334-11-20 12:57 G 14261618.87 14261619.04 14261619.22 0.0506 0.0131

Pluto 34335-03-19 13:26 G 14261738.01 14261738.06 14261738.13 0.0069 0.0062

Pluto 34335-06-15 14:09 G 14261826.01 14261826.09 14261826.18 0.0070 0.0052

Pluto 34335-09-11 14:38 G 14261914.01 14261914.11 14261914.22 0.0070 0.0042

Pluto 34335-12-08 15:07 G 14262002.02 14262002.13 14262002.25 0.0070 0.0032

Pluto 34336-03-05 15:36 G 14262090.04 14262090.15 14262090.28 0.0070 0.0022

Pluto 34336-06-01 16:19 G 14262178.05 14262178.18 14262178.31 0.0070 0.0012

Pluto 34336-08-28 17:02 G 14262266.08 14262266.21 14262266.34 0.0070 0.0002

Pluto 34336-11-24 17:31 G 14262354.10 14262354.23 14262354.36 0.0070 0.0009

Pluto 34337-02-20 18:00 G 14262442.13 14262442.25 14262442.38 0.0070 0.0019

Pluto 34337-05-19 18:29 G 14262530.16 14262530.27 14262530.39 0.0070 0.0030

Moon 34337-05-25 13:12 G 14262535.98 14262536.05 14262536.13 0.2661 0.1897

Earth 34337-05-25 13:41 G 14262536.00 14262536.07 14262536.14 0.2655 0.1996 *

Pluto 34337-08-15 18:57 G 14262618.19 14262618.29 14262618.41 0.0070 0.0041

Pluto 34337-11-11 19:41 G 14262706.24 14262706.32 14262706.42 0.0071 0.0051

Pluto 34338-02-07 19:55 G 14262794.29 14262794.33 14262794.41 0.0071 0.0062

Saturn 34339-09-16 22:33 G 14263380.32 14263380.44 14263380.58 0.0294 0.0201

Saturn 34339-12-14 23:17 G 14263469.29 14263469.47 14263469.65 0.0295 0.0005

Saturn 34340-03-12 23:17 G 14263558.34 14263558.47 14263558.60 0.0296 0.0206

Jupiter 34340-07-12 04:48 G 14263679.58 14263679.70 14263679.83 0.0520 0.0026

Mars 34341-11-17 10:19 G 14264172.79 14264172.93 14264173.07 0.1666 0.0888

Moon 34344-05-18 14:09 G 14265086.01 14265086.09 14265086.17 0.2648 0.1701

Earth 34344-05-18 14:24 G 14265086.01 14265086.10 14265086.18 0.2655 0.1676 *

Jupiter 34346-09-08 10:19 G 14265928.75 14265928.93 14265929.11 0.0506 0.0069

Earth 34347-11-21 10:19 G 14266367.77 14266367.93 14266368.08 0.2676 0.0384

Moon 34347-11-21 11:45 G 14266367.83 14266367.99 14266368.14 0.2680 0.0628 *

Venus 34348-12-19 23:45 G 14266762.43 14266762.49 14266762.55 0.3684 0.3100

Jupiter 34352-04-30 09:36 G 14267989.78 14267989.90 14267990.03 0.0521 0.0119

Jupiter 34352-07-28 15:21 G 14268079.09 14268079.14 14268079.19 0.0518 0.0477

Saturn 34353-01-20 06:43 G 14268254.74 14268254.78 14268254.82 0.0268 0.0252

Saturn 34353-04-18 16:48 G 14268343.10 14268343.20 14268343.32 0.0267 0.0145

Saturn 34353-07-16 03:21 G 14268431.50 14268431.64 14268431.77 0.0267 0.0036

Saturn 34353-10-12 13:41 G 14268519.94 14268520.07 14268520.20 0.0266 0.0072

Mars 34354-01-08 21:36 G 14268608.33 14268608.40 14268608.47 0.1859 0.1496

Saturn 34354-01-09 00:00 G 14268608.41 14268608.50 14268608.60 0.0265 0.0180 *

Venus 34354-07-05 16:33 G 14268786.09 14268786.19 14268786.29 0.3684 0.1207

Uranus 34355-05-13 16:33 G 14269098.11 14269098.19 14269098.29 0.0135 0.0117

Uranus 34355-08-09 23:17 G 14269186.35 14269186.47 14269186.62 0.0135 0.0092

Uranus 34355-11-06 06:00 G 14269274.60 14269274.75 14269274.92 0.0135 0.0068

Uranus 34356-02-02 12:57 G 14269362.86 14269363.04 14269363.21 0.0135 0.0043

Uranus 34356-04-30 19:26 G 14269451.13 14269451.31 14269451.50 0.0134 0.0019

Uranus 34356-07-28 02:09 G 14269539.40 14269539.59 14269539.77 0.0134 0.0006

Uranus 34356-10-24 08:38 G 14269627.68 14269627.86 14269628.04 0.0134 0.0030

Uranus 34357-01-20 15:07 G 14269715.96 14269716.13 14269716.30 0.0134 0.0053

Uranus 34357-04-18 21:21 G 14269804.25 14269804.39 14269804.55 0.0134 0.0077

Moon 34357-05-21 06:57 G 14269836.68 14269836.79 14269836.90 0.2653 0.0442

Earth 34357-05-21 07:41 G 14269836.71 14269836.82 14269836.93 0.2655 0.0380 *

Uranus 34357-07-16 03:50 G 14269892.54 14269892.66 14269892.78 0.0134 0.0100

Uranus 34357-10-12 09:50 G 14269980.86 14269980.91 14269981.00 0.0134 0.0124

Jupiter 34358-06-27 07:12 G 14270238.65 14270238.80 14270238.95 0.0505 0.0272

Venus 34358-07-05 19:26 G 14270247.19 14270247.31 14270247.42 0.3687 0.2112

Venus 34360-01-19 09:36 G 14270809.79 14270809.90 14270810.01 0.3683 0.0745

Mars 34363-06-01 05:31 G 14272038.62 14272038.73 14272038.85 0.1866 0.0276

Venus 34364-01-19 22:05 G 14272271.30 14272271.42 14272271.54 0.3687 0.1850

Jupiter 34364-02-17 14:24 G 14272299.99 14272300.10 14272300.21 0.0521 0.0259

Jupiter 34364-05-16 19:55 G 14272389.23 14272389.33 14272389.43 0.0519 0.0337

Venus 34365-08-04 02:38 G 14272833.54 14272833.61 14272833.69 0.3683 0.2745

Saturn 34369-02-02 17:17 G 14274112.19 14274112.22 14274112.26 0.0294 0.0287

Saturn 34369-05-02 18:00 G 14274201.07 14274201.25 14274201.42 0.0294 0.0083

Saturn 34369-07-30 18:14 G 14274290.09 14274290.26 14274290.42 0.0295 0.0120

Jupiter 34370-04-15 04:48 G 14274548.64 14274548.70 14274548.78 0.0505 0.0464

Moon 34370-05-24 00:14 G 14274587.41 14274587.51 14274587.62 0.2657 0.0804

Earth 34370-05-24 00:57 G 14274587.44 14274587.54 14274587.64 0.2655 0.0941 *

Jupiter 34370-07-14 14:38 G 14274638.98 14274639.11 14274639.25 0.0507 0.0345

Mars 34371-12-27 08:38 G 14275169.72 14275169.86 14275170.01 0.1672 0.0641

Mars 34372-10-21 13:41 G 14275468.97 14275469.07 14275469.17 0.1874 0.0978

Jupiter 34375-12-06 18:14 G 14276610.19 14276610.26 14276610.34 0.0521 0.0411

Jupiter 34376-03-04 23:45 G 14276699.37 14276699.49 14276699.61 0.0519 0.0180

Moon 34377-05-17 01:55 G 14277137.57 14277137.58 14277137.59 0.2648 0.2622

Earth 34380-11-18 08:53 G 14278418.77 14278418.87 14278418.96 0.2676 0.2113

Moon 34380-11-18 09:21 G 14278418.79 14278418.89 14278418.99 0.2683 0.2064 *

Mars 34381-05-18 10:48 G 14278599.81 14278599.95 14278600.10 0.1666 0.0695

Jupiter 34382-05-02 12:43 G 14278948.86 14278949.03 14278949.20 0.0507 0.0155

Saturn 34382-09-05 19:12 G 14279075.20 14279075.30 14279075.40 0.0268 0.0181

Saturn 34382-12-03 05:31 G 14279163.60 14279163.73 14279163.86 0.0268 0.0073

Saturn 34383-03-01 15:50 G 14279252.03 14279252.16 14279252.29 0.0267 0.0036

Moon 34383-05-26 18:00 G 14279338.20 14279338.25 14279338.31 0.2661 0.2298

Earth 34383-05-26 18:29 G 14279338.21 14279338.27 14279338.32 0.2655 0.2267 *

Saturn 34383-05-29 02:09 G 14279340.48 14279340.59 14279340.71 0.0266 0.0144

Saturn 34383-08-25 12:43 G 14279428.99 14279429.03 14279429.07 0.0265 0.0253

Jupiter 34387-12-23 04:05 G 14281009.54 14281009.67 14281009.80 0.0519 0.0034

Moon 34390-05-19 18:43 G 14281888.19 14281888.28 14281888.37 0.2649 0.1462

Earth 34390-05-19 19:12 G 14281888.20 14281888.30 14281888.39 0.2655 0.1408 *

Mars 34393-07-09 21:36 G 14283035.35 14283035.40 14283035.45 0.1859 0.1659

Earth 34393-11-21 17:02 G 14283170.06 14283170.21 14283170.35 0.2676 0.0949

Moon 34393-11-21 18:43 G 14283170.13 14283170.28 14283170.42 0.2680 0.1120 *

Neptune 34393-12-30 06:43 G 14283208.74 14283208.78 14283208.82 0.0089 0.0084

Jupiter 34394-02-18 09:50 G 14283258.73 14283258.91 14283259.10 0.0506 0.0045

Neptune 34394-03-28 07:55 G 14283296.77 14283296.83 14283296.90 0.0089 0.0077

Neptune 34394-06-24 09:07 G 14283384.81 14283384.88 14283384.98 0.0089 0.0070

Neptune 34394-09-20 10:33 G 14283472.86 14283472.94 14283473.04 0.0089 0.0063

Neptune 34394-12-17 12:00 G 14283560.90 14283561.00 14283561.11 0.0089 0.0055

Neptune 34395-03-15 13:26 G 14283648.95 14283649.06 14283649.18 0.0089 0.0048

Neptune 34395-06-11 14:53 G 14283737.00 14283737.12 14283737.24 0.0089 0.0041

Neptune 34395-09-07 16:05 G 14283825.05 14283825.17 14283825.30 0.0089 0.0034

Neptune 34395-12-04 17:31 G 14283913.10 14283913.23 14283913.36 0.0088 0.0026

Neptune 34396-03-01 18:57 G 14284001.16 14284001.29 14284001.42 0.0088 0.0019

Neptune 34396-05-28 20:24 G 14284089.21 14284089.35 14284089.48 0.0088 0.0012

Neptune 34396-08-24 21:36 G 14284177.27 14284177.40 14284177.54 0.0088 0.0005

Neptune 34396-11-20 23:02 G 14284265.33 14284265.46 14284265.60 0.0088 0.0003

Neptune 34397-02-17 00:29 G 14284353.38 14284353.52 14284353.65 0.0088 0.0010

Neptune 34397-05-16 01:55 G 14284441.44 14284441.58 14284441.71 0.0088 0.0018

Neptune 34397-08-12 03:07 G 14284529.50 14284529.63 14284529.77 0.0088 0.0025

Neptune 34397-11-08 04:33 G 14284617.57 14284617.69 14284617.82 0.0088 0.0032

Neptune 34398-02-04 06:00 G 14284705.63 14284705.75 14284705.87 0.0088 0.0040

Uranus 34398-05-02 11:31 G 14284792.94 14284792.98 14284793.02 0.0143 0.0136

Neptune 34398-05-03 07:12 G 14284793.69 14284793.80 14284793.92 0.0088 0.0048

Uranus 34398-07-29 15:07 G 14284881.05 14284881.13 14284881.21 0.0143 0.0115

Neptune 34398-07-30 08:38 G 14284881.76 14284881.86 14284881.97 0.0088 0.0055

Saturn 34398-09-19 15:07 G 14284932.98 14284933.13 14284933.29 0.0294 0.0151

Uranus 34398-10-25 18:57 G 14284969.19 14284969.29 14284969.39 0.0144 0.0094

Neptune 34398-10-26 10:05 G 14284969.83 14284969.92 14284970.02 0.0088 0.0062

Saturn 34398-12-17 15:36 G 14285021.97 14285022.15 14285022.33 0.0295 0.0053

Uranus 34399-01-21 22:33 G 14285057.33 14285057.44 14285057.56 0.0144 0.0073

Neptune 34399-01-22 11:31 G 14285057.90 14285057.98 14285058.07 0.0088 0.0070

Saturn 34399-03-16 15:36 G 14285111.06 14285111.15 14285111.24 0.0296 0.0254

Uranus 34399-04-20 02:24 G 14285145.48 14285145.60 14285145.73 0.0144 0.0051

Neptune 34399-04-20 13:12 G 14285145.98 14285146.05 14285146.11 0.0088 0.0077

Uranus 34399-07-17 06:14 G 14285233.63 14285233.76 14285233.90 0.0144 0.0030

Neptune 34399-07-17 14:09 G 14285234.07 14285234.09 14285234.14 0.0088 0.0085

Jupiter 34399-10-11 08:24 G 14285319.73 14285319.85 14285319.98 0.0520 0.0113

Uranus 34399-10-13 10:05 G 14285321.79 14285321.92 14285322.06 0.0144 0.0008

Jupiter 34400-01-08 14:09 G 14285409.04 14285409.09 14285409.13 0.0518 0.0483

Uranus 34400-01-09 13:55 G 14285409.95 14285410.08 14285410.22 0.0144 0.0015

Uranus 34400-04-06 18:00 G 14285498.11 14285498.25 14285498.38 0.0144 0.0036

Uranus 34400-07-03 21:50 G 14285586.28 14285586.41 14285586.53 0.0144 0.0058

Uranus 34400-09-30 01:41 G 14285674.46 14285674.57 14285674.69 0.0144 0.0080

Uranus 34400-12-27 05:31 G 14285762.64 14285762.73 14285762.83 0.0144 0.0103

Uranus 34401-03-25 09:36 G 14285850.84 14285850.90 14285850.97 0.0144 0.0125

Mars 34402-11-30 05:45 G 14286465.62 14286465.74 14286465.85 0.1866 0.0423

Moon 34403-05-22 11:45 G 14286638.88 14286638.99 14286639.10 0.2653 0.0224

Earth 34403-05-22 12:29 G 14286638.91 14286639.02 14286639.12 0.2655 0.0142 *

Venus 34405-07-26 21:36 G 14287435.32 14287435.40 14287435.48 0.3684 0.2436

Jupiter 34405-12-07 06:57 G 14287568.64 14287568.79 14287568.95 0.0505 0.0245

Venus 34411-02-09 14:24 G 14289458.99 14289459.10 14289459.21 0.3684 0.0522

Mars 34411-06-27 09:21 G 14289596.75 14289596.89 14289597.02 0.1672 0.0835

Jupiter 34411-07-30 13:12 G 14289629.93 14289630.05 14289630.16 0.0521 0.0253

Jupiter 34411-10-27 18:43 G 14289719.18 14289719.28 14289719.38 0.0519 0.0342

Saturn 34412-01-23 21:21 G 14289807.31 14289807.39 14289807.46 0.0268 0.0218

Saturn 34412-04-21 07:41 G 14289895.69 14289895.82 14289895.94 0.0267 0.0110

Mars 34412-04-21 13:41 G 14289895.97 14289896.07 14289896.18 0.1874 0.0831

Saturn 34412-07-18 18:00 G 14289984.11 14289984.25 14289984.38 0.0267 0.0008

Saturn 34412-10-15 04:19 G 14290072.56 14290072.68 14290072.80 0.0266 0.0107

Saturn 34413-01-11 14:38 G 14290161.04 14290161.11 14290161.19 0.0265 0.0216

Venus 34415-02-09 19:55 G 14290920.19 14290920.33 14290920.46 0.3687 0.0766

Moon 34416-05-24 05:17 G 14291389.62 14291389.72 14291389.81 0.2659 0.1175

Earth 34416-05-24 05:45 G 14291389.64 14291389.74 14291389.84 0.2655 0.1211 *

Venus 34416-08-25 07:26 G 14291482.71 14291482.81 14291482.91 0.3683 0.1449

Jupiter 34417-09-25 03:50 G 14291878.58 14291878.66 14291878.74 0.0505 0.0448

Jupiter 34417-12-24 13:41 G 14291968.94 14291969.07 14291969.20 0.0507 0.0359

Venus 34420-08-25 22:19 G 14292944.36 14292944.43 14292944.50 0.3688 0.3135

Mars 34420-11-16 11:31 G 14293026.83 14293026.98 14293027.13 0.1666 0.0495

Pluto 34421-01-26 12:00 G 14293097.92 14293098.00 14293098.08 0.0075 0.0067

Pluto 34421-04-24 14:38 G 14293185.96 14293186.11 14293186.26 0.0075 0.0048

Pluto 34421-07-21 17:02 G 14293274.04 14293274.21 14293274.40 0.0075 0.0029

Pluto 34421-10-17 19:41 G 14293362.13 14293362.32 14293362.53 0.0074 0.0011

Pluto 34422-01-13 22:19 G 14293450.24 14293450.43 14293450.64 0.0074 0.0009

Venus 34422-03-11 00:43 G 14293506.49 14293506.53 14293506.56 0.3683 0.3458

Pluto 34422-04-12 00:43 G 14293538.36 14293538.53 14293538.73 0.0074 0.0027

Pluto 34422-07-09 03:21 G 14293626.50 14293626.64 14293626.81 0.0074 0.0046

Pluto 34422-10-05 05:45 G 14293714.66 14293714.74 14293714.86 0.0074 0.0064

Earth 34423-05-18 06:43 G 14293939.73 14293939.78 14293939.82 0.2655 0.2434

Moon 34423-05-18 06:43 G 14293939.74 14293939.78 14293939.82 0.2648 0.2458 *

Jupiter 34423-05-18 17:45 G 14293940.16 14293940.24 14293940.33 0.0522 0.0392

Jupiter 34423-08-15 23:17 G 14294029.35 14294029.47 14294029.59 0.0519 0.0203

Earth 34426-11-19 15:36 G 14295221.02 14295221.15 14295221.28 0.2676 0.1530

Moon 34426-11-19 16:33 G 14295221.05 14295221.19 14295221.33 0.2682 0.1348 *

Saturn 34428-02-06 10:05 G 14295664.81 14295664.92 14295665.03 0.0294 0.0236

Saturn 34428-05-05 10:33 G 14295753.76 14295753.94 14295754.12 0.0295 0.0032

Saturn 34428-08-02 10:33 G 14295842.80 14295842.94 14295843.09 0.0295 0.0171

Moon 34429-05-26 23:02 G 14296140.42 14296140.46 14296140.50 0.2661 0.2461

Earth 34429-05-26 23:17 G 14296140.44 14296140.47 14296140.49 0.2655 0.2544 *

Jupiter 34429-10-12 11:45 G 14296278.82 14296278.99 14296279.16 0.0507 0.0171

Mars 34433-01-07 21:36 G 14297462.38 14297462.40 14297462.43 0.1858 0.1805

Jupiter 34435-06-04 03:21 G 14298339.51 14298339.64 14298339.77 0.0519 0.0049

Moon 34436-05-19 23:17 G 14298690.38 14298690.47 14298690.57 0.2650 0.1169

Earth 34436-05-19 23:45 G 14298690.40 14298690.49 14298690.59 0.2655 0.1145 *

Uranus 34439-06-02 22:48 G 14299799.36 14299799.45 14299799.55 0.0135 0.0114

Uranus 34439-08-30 05:31 G 14299887.60 14299887.73 14299887.87 0.0135 0.0089

Earth 34439-11-22 23:45 G 14299972.36 14299972.49 14299972.62 0.2676 0.1525

Moon 34439-11-23 01:26 G 14299972.44 14299972.56 14299972.68 0.2680 0.1757 *

Uranus 34439-11-26 12:14 G 14299975.85 14299976.01 14299976.18 0.0135 0.0064

Uranus 34440-02-22 18:57 G 14300064.12 14300064.29 14300064.47 0.0135 0.0040

Uranus 34440-05-21 01:41 G 14300152.39 14300152.57 14300152.76 0.0134 0.0015

Uranus 34440-08-17 08:09 G 14300240.66 14300240.84 14300241.03 0.0134 0.0010

Uranus 34440-11-13 14:38 G 14300328.94 14300329.11 14300329.30 0.0134 0.0034

Uranus 34441-02-09 21:07 G 14300417.22 14300417.38 14300417.56 0.0134 0.0057

Uranus 34441-05-09 03:36 G 14300505.51 14300505.65 14300505.80 0.0134 0.0081

Saturn 34441-06-11 23:17 G 14300539.44 14300539.47 14300539.51 0.0269 0.0257

Jupiter 34441-07-31 09:21 G 14300588.71 14300588.89 14300589.07 0.0507 0.0022

Uranus 34441-08-05 09:50 G 14300593.81 14300593.91 14300594.04 0.0134 0.0104

Saturn 34441-09-08 09:36 G 14300627.79 14300627.90 14300628.01 0.0268 0.0148

Uranus 34441-11-01 16:19 G 14300682.13 14300682.18 14300682.24 0.0134 0.0127

Saturn 34441-12-05 19:55 G 14300716.20 14300716.33 14300716.46 0.0268 0.0039

Saturn 34442-03-04 06:14 G 14300804.64 14300804.76 14300804.90 0.0267 0.0071

Mars 34442-05-31 05:31 G 14300892.62 14300892.73 14300892.85 0.1866 0.0562

Saturn 34442-05-31 16:48 G 14300893.10 14300893.20 14300893.30 0.0266 0.0179

Jupiter 34447-03-23 07:41 G 14302649.69 14302649.82 14302649.94 0.0520 0.0099

Jupiter 34447-06-20 13:12 G 14302739.02 14302739.05 14302739.09 0.0518 0.0495

Moon 34449-05-22 16:33 G 14303441.08 14303441.19 14303441.30 0.2653 0.0113

Earth 34449-05-22 17:02 G 14303441.11 14303441.21 14303441.32 0.2655 0.0192 *

Mars 34450-12-26 09:50 G 14304023.78 14304023.91 14304024.03 0.1673 0.1021

Mars 34451-10-21 13:55 G 14304322.97 14304323.08 14304323.19 0.1873 0.0663

Jupiter 34453-05-19 06:29 G 14304898.61 14304898.77 14304898.94 0.0506 0.0223

Venus 34456-08-17 02:38 G 14306084.59 14306084.61 14306084.62 0.3685 0.3645

Saturn 34457-09-22 08:09 G 14306485.67 14306485.84 14306486.01 0.0294 0.0097

Saturn 34457-12-20 08:24 G 14306574.68 14306574.85 14306575.02 0.0295 0.0105

Jupiter 34459-01-09 12:00 G 14306959.88 14306960.00 14306960.11 0.0521 0.0247

Jupiter 34459-04-08 17:31 G 14307049.13 14307049.23 14307049.32 0.0519 0.0348

Mars 34460-05-17 12:00 G 14307453.85 14307454.00 14307454.16 0.1667 0.0301

Venus 34462-03-02 19:12 G 14308108.21 14308108.30 14308108.40 0.3684 0.1773

Moon 34462-05-25 10:05 G 14308191.83 14308191.92 14308192.01 0.2660 0.1397

Earth 34462-05-25 10:33 G 14308191.85 14308191.94 14308192.03 0.2655 0.1486 *

Jupiter 34465-03-07 03:36 G 14309208.55 14309208.65 14309208.75 0.0505 0.0423

Jupiter 34465-06-05 13:12 G 14309298.94 14309299.05 14309299.17 0.0507 0.0385

Venus 34466-03-02 17:17 G 14309569.18 14309569.22 14309569.26 0.3686 0.3493

Venus 34467-09-16 12:14 G 14310131.90 14310132.01 14310132.12 0.3684 0.0169

Moon 34469-05-18 11:17 G 14310741.91 14310741.97 14310742.04 0.2648 0.2103

Earth 34469-05-18 11:17 G 14310741.91 14310741.97 14310742.03 0.2655 0.2168 *

Mars 34469-10-07 14:24 G 14310884.07 14310884.10 14310884.13 0.1660 0.1625

Jupiter 34470-10-28 16:33 G 14311270.11 14311270.19 14311270.27 0.0522 0.0388

Jupiter 34471-01-25 22:05 G 14311359.30 14311359.42 14311359.54 0.0519 0.0206

Saturn 34471-01-26 11:45 G 14311359.90 14311359.99 14311360.09 0.0268 0.0183

Saturn 34471-04-24 22:05 G 14311448.29 14311448.42 14311448.55 0.0267 0.0074

Saturn 34471-07-22 08:24 G 14311536.72 14311536.85 14311536.99 0.0267 0.0036

Venus 34471-09-16 20:09 G 14311593.21 14311593.34 14311593.48 0.3687 0.0567

Saturn 34471-10-18 18:57 G 14311625.18 14311625.29 14311625.40 0.0266 0.0143

Saturn 34472-01-15 05:17 G 14311713.69 14311713.72 14311713.77 0.0265 0.0252

Earth 34472-11-19 22:19 G 14312023.28 14312023.43 14312023.58 0.2677 0.0953

Moon 34472-11-19 23:31 G 14312023.34 14312023.48 14312023.63 0.2681 0.0887 *

Venus 34473-04-01 05:17 G 14312155.63 14312155.72 14312155.81 0.3683 0.2144

Jupiter 34477-03-24 10:19 G 14313608.77 14313608.93 14313609.10 0.0507 0.0183

Neptune 34478-03-11 06:43 G 14313960.72 14313960.78 14313960.84 0.0089 0.0083

Neptune 34478-06-07 09:50 G 14314048.82 14314048.91 14314049.03 0.0089 0.0073

Neptune 34478-09-03 13:41 G 14314136.93 14314137.07 14314137.20 0.0089 0.0062

Neptune 34478-11-30 16:48 G 14314225.06 14314225.20 14314225.37 0.0089 0.0052

Neptune 34479-02-26 20:09 G 14314313.19 14314313.34 14314313.52 0.0089 0.0042

Neptune 34479-05-25 23:45 G 14314401.32 14314401.49 14314401.67 0.0089 0.0031

Neptune 34479-08-22 03:07 G 14314489.46 14314489.63 14314489.82 0.0089 0.0021

Neptune 34479-11-18 06:43 G 14314577.59 14314577.78 14314577.97 0.0089 0.0010

Neptune 34480-02-14 10:05 G 14314665.73 14314665.92 14314666.11 0.0089 0.0001

Neptune 34480-05-12 13:26 G 14314753.87 14314754.06 14314754.25 0.0089 0.0011

Neptune 34480-08-08 16:48 G 14314842.02 14314842.20 14314842.39 0.0089 0.0021

Neptune 34480-11-04 20:09 G 14314930.17 14314930.34 14314930.52 0.0089 0.0031

Neptune 34481-01-31 23:31 G 14315018.32 14315018.48 14315018.65 0.0089 0.0041

Neptune 34481-04-30 02:24 G 14315106.47 14315106.60 14315106.77 0.0089 0.0052

Neptune 34481-07-27 05:45 G 14315194.62 14315194.74 14315194.89 0.0089 0.0062

Neptune 34481-10-23 09:07 G 14315282.79 14315282.88 14315283.00 0.0089 0.0072

Mars 34481-11-29 05:45 G 14315319.63 14315319.74 14315319.85 0.1866 0.0724

Neptune 34482-01-19 12:29 G 14315370.96 14315371.02 14315371.10 0.0089 0.0082

Moon 34482-05-21 04:05 G 14315492.57 14315492.67 14315492.77 0.2650 0.1000

Earth 34482-05-21 04:33 G 14315492.59 14315492.69 14315492.79 0.2655 0.0873 *

Uranus 34482-05-22 18:57 G 14315494.24 14315494.29 14315494.34 0.0143 0.0130

Uranus 34482-08-18 22:33 G 14315582.36 14315582.44 14315582.53 0.0143 0.0109

Jupiter 34482-11-14 02:38 G 14315669.48 14315669.61 14315669.74 0.0520 0.0066

Uranus 34482-11-15 02:24 G 14315670.49 14315670.60 14315670.71 0.0143 0.0088

Uranus 34483-02-11 06:00 G 14315758.64 14315758.75 14315758.88 0.0144 0.0067

Uranus 34483-05-10 09:50 G 14315846.79 14315846.91 14315847.04 0.0144 0.0045

Uranus 34483-08-06 13:41 G 14315934.94 14315935.07 14315935.21 0.0144 0.0024

Uranus 34483-11-02 17:31 G 14316023.10 14316023.23 14316023.37 0.0144 0.0004

Uranus 34484-01-29 21:21 G 14316111.26 14316111.39 14316111.53 0.0144 0.0021

Uranus 34484-04-27 01:12 G 14316199.43 14316199.55 14316199.69 0.0144 0.0043

Uranus 34484-07-24 05:17 G 14316287.60 14316287.72 14316287.84 0.0144 0.0064

Uranus 34484-10-20 09:07 G 14316375.77 14316375.88 14316375.99 0.0144 0.0087

Uranus 34485-01-16 12:57 G 14316463.96 14316464.04 14316464.14 0.0144 0.0109

Uranus 34485-04-14 16:48 G 14316552.16 14316552.20 14316552.27 0.0144 0.0133

Earth 34485-11-23 06:29 G 14316774.67 14316774.77 14316774.87 0.2677 0.2088

Moon 34485-11-23 08:09 G 14316774.76 14316774.84 14316774.92 0.2679 0.2311 *

Saturn 34487-02-09 03:21 G 14317217.50 14317217.64 14317217.79 0.0294 0.0179

Saturn 34487-05-09 03:50 G 14317306.48 14317306.66 14317306.84 0.0295 0.0024

Saturn 34487-08-06 03:50 G 14317395.55 14317395.66 14317395.78 0.0295 0.0226

Jupiter 34489-01-10 08:09 G 14317918.66 14317918.84 14317919.02 0.0506 0.0011

Mars 34490-06-26 10:19 G 14318450.83 14318450.93 14318451.04 0.1673 0.1227

Mars 34491-04-21 13:41 G 14318749.96 14318750.07 14318750.19 0.1873 0.0532

Jupiter 34494-09-02 06:43 G 14319979.65 14319979.78 14319979.91 0.0520 0.0086

Jupiter 34494-11-30 12:14 G 14320068.99 14320069.01 14320069.04 0.0517 0.0508

Moon 34495-05-23 21:21 G 14320243.28 14320243.39 14320243.49 0.2655 0.0378

Earth 34495-05-23 21:50 G 14320243.31 14320243.41 14320243.52 0.2655 0.0438 *

Mars 34499-11-16 12:43 G 14321880.87 14321881.03 14321881.19 0.1666 0.0105

Saturn 34500-06-15 13:41 G 14322092.01 14322092.07 14322092.15 0.0269 0.0223

Mars 34500-09-11 21:50 G 14322180.38 14322180.41 14322180.45 0.1881 0.1768

Saturn 34500-09-12 00:14 G 14322180.39 14322180.51 14322180.63 0.0268 0.0112 *

Jupiter 34500-10-30 05:31 G 14322228.56 14322228.73 14322228.90 0.0506 0.0207

Saturn 34500-12-09 10:33 G 14322268.81 14322268.94 14322269.08 0.0268 0.0007

Saturn 34501-03-07 21:07 G 14322357.25 14322357.38 14322357.50 0.0267 0.0107

Saturn 34501-06-04 07:26 G 14322445.74 14322445.81 14322445.89 0.0266 0.0216

Jupiter 34506-06-22 11:02 G 14324289.85 14324289.96 14324290.08 0.0520 0.0233

Jupiter 34506-09-19 16:33 G 14324379.10 14324379.19 14324379.28 0.0518 0.0360

Moon 34508-05-26 14:53 G 14324994.03 14324994.12 14324994.20 0.2660 0.1699

Earth 34508-05-26 15:21 G 14324994.06 14324994.14 14324994.22 0.2655 0.1756 *

Mars 34509-04-08 14:38 G 14325311.04 14325311.11 14325311.19 0.1660 0.1441

Jupiter 34512-08-18 02:38 G 14326538.50 14326538.61 14326538.72 0.0505 0.0407

Jupiter 34512-11-16 12:29 G 14326628.91 14326629.02 14326629.13 0.0507 0.0402

Venus 34513-03-25 00:14 G 14326757.45 14326757.51 14326757.57 0.3685 0.2992

Moon 34515-05-20 15:50 G 14327544.09 14327544.16 14327544.24 0.2649 0.1971

Earth 34515-05-20 16:05 G 14327544.10 14327544.17 14327544.24 0.2655 0.1902 *

Saturn 34516-06-29 01:41 G 14327949.46 14327949.57 14327949.67 0.0293 0.0239

Saturn 34516-09-26 02:09 G 14328038.41 14328038.59 14328038.77 0.0294 0.0035

Saturn 34516-12-24 02:09 G 14328127.45 14328127.59 14328127.74 0.0295 0.0167

Jupiter 34518-04-10 15:21 G 14328600.05 14328600.14 14328600.22 0.0521 0.0382

Jupiter 34518-07-08 20:38 G 14328689.25 14328689.36 14328689.48 0.0519 0.0211

Venus 34518-10-08 17:02 G 14328781.11 14328781.21 14328781.31 0.3684 0.1091

Earth 34518-11-22 05:02 G 14328825.56 14328825.71 14328825.87 0.2677 0.0376

Moon 34518-11-22 06:29 G 14328825.61 14328825.77 14328825.93 0.2682 0.0091 *

Mars 34521-05-31 05:45 G 14329746.64 14329746.74 14329746.84 0.1866 0.0876

Venus 34522-10-08 17:45 G 14330242.13 14330242.24 14330242.35 0.3687 0.2136

Uranus 34523-03-27 22:33 G 14330412.43 14330412.44 14330412.46 0.0135 0.0134

Uranus 34523-06-24 05:31 G 14330500.62 14330500.73 14330500.84 0.0135 0.0109

Uranus 34523-09-20 12:14 G 14330588.87 14330589.01 14330589.16 0.0135 0.0084

Uranus 34523-12-17 18:43 G 14330677.13 14330677.28 14330677.46 0.0135 0.0060

Uranus 34524-03-15 01:41 G 14330765.39 14330765.57 14330765.75 0.0135 0.0035

Venus 34524-04-23 10:05 G 14330804.81 14330804.92 14330805.02 0.3683 0.0862

Uranus 34524-06-11 08:24 G 14330853.66 14330853.85 14330854.03 0.0134 0.0010

Jupiter 34524-09-04 09:50 G 14330938.74 14330938.91 14330939.07 0.0507 0.0203

Uranus 34524-09-07 14:53 G 14330941.94 14330942.12 14330942.31 0.0134 0.0014

Uranus 34524-12-04 21:21 G 14331030.22 14331030.39 14331030.57 0.0134 0.0038

Uranus 34525-03-03 03:50 G 14331118.51 14331118.66 14331118.83 0.0134 0.0062

Uranus 34525-05-30 10:19 G 14331206.80 14331206.93 14331207.08 0.0134 0.0086

Uranus 34525-08-26 16:33 G 14331295.10 14331295.19 14331295.31 0.0134 0.0110

Uranus 34525-11-22 23:02 G 14331383.44 14331383.46 14331383.50 0.0134 0.0132

Venus 34528-04-23 20:38 G 14332266.24 14332266.36 14332266.48 0.3687 0.1883

Moon 34528-05-22 08:38 G 14332294.76 14332294.86 14332294.97 0.2651 0.0637

Earth 34528-05-22 09:21 G 14332294.78 14332294.89 14332294.99 0.2655 0.0610 *

Saturn 34529-11-02 16:19 G 14332824.14 14332824.18 14332824.22 0.0269 0.0255

Venus 34529-11-07 03:07 G 14332828.56 14332828.63 14332828.70 0.3683 0.2860

Mars 34529-12-26 11:02 G 14332877.88 14332877.96 14332878.04 0.1673 0.1426

Saturn 34530-01-30 02:38 G 14332912.50 14332912.61 14332912.72 0.0268 0.0145

Jupiter 34530-04-27 01:12 G 14332999.42 14332999.55 14332999.68 0.0520 0.0067

Saturn 34530-04-28 12:57 G 14333000.91 14333001.04 14333001.18 0.0267 0.0037

Saturn 34530-07-25 23:31 G 14333089.35 14333089.48 14333089.61 0.0267 0.0073

Mars 34530-10-21 13:55 G 14333176.96 14333177.08 14333177.19 0.1873 0.0377

Saturn 34530-10-22 09:50 G 14333177.82 14333177.91 14333178.01 0.0266 0.0183

Earth 34531-11-25 13:12 G 14333577.03 14333577.05 14333577.07 0.2677 0.2654

Jupiter 34536-06-23 06:43 G 14335248.59 14335248.78 14335248.96 0.0506 0.0009

Mars 34539-05-18 13:12 G 14336307.89 14336308.05 14336308.21 0.1667 0.0092

Mars 34540-03-12 21:50 G 14336607.36 14336607.41 14336607.47 0.1880 0.1619

Moon 34541-05-25 01:55 G 14337045.48 14337045.58 14337045.69 0.2657 0.0579

Earth 34541-05-25 02:38 G 14337045.51 14337045.61 14337045.72 0.2655 0.0705 *

Jupiter 34542-02-13 06:00 G 14337309.62 14337309.75 14337309.87 0.0520 0.0076

Saturn 34546-02-12 22:05 G 14338770.25 14338770.42 14338770.59 0.0294 0.0112

Saturn 34546-05-12 22:19 G 14338859.26 14338859.43 14338859.61 0.0295 0.0091

Saturn 34546-08-09 22:19 G 14338948.41 14338948.43 14338948.46 0.0296 0.0292

Jupiter 34548-04-11 04:05 G 14339558.51 14339558.67 14339558.84 0.0506 0.0197

Mars 34548-10-07 15:36 G 14339738.04 14339738.15 14339738.25 0.1661 0.1230

Jupiter 34553-12-02 10:05 G 14341619.81 14341619.92 14341620.04 0.0520 0.0223

Jupiter 34554-03-01 15:36 G 14341709.06 14341709.15 14341709.24 0.0518 0.0370

Moon 34554-05-27 19:41 G 14341796.25 14341796.32 14341796.39 0.2660 0.1979

Earth 34554-05-27 20:09 G 14341796.27 14341796.34 14341796.41 0.2655 0.2027 *

Neptune 34558-07-01 05:02 G 14343291.70 14343291.71 14343291.74 0.0089 0.0088

Neptune 34558-09-27 06:43 G 14343379.73 14343379.78 14343379.83 0.0089 0.0080

Neptune 34558-12-24 07:55 G 14343467.76 14343467.83 14343467.91 0.0089 0.0073

Neptune 34559-03-22 09:21 G 14343555.80 14343555.89 14343555.98 0.0089 0.0066

Neptune 34559-06-18 10:33 G 14343643.85 14343643.94 14343644.05 0.0089 0.0059

Saturn 34559-06-19 04:48 G 14343644.61 14343644.70 14343644.80 0.0269 0.0183

Neptune 34559-09-14 12:00 G 14343731.90 14343732.00 14343732.11 0.0089 0.0051

Saturn 34559-09-15 15:07 G 14343733.01 14343733.13 14343733.26 0.0268 0.0074

Neptune 34559-12-11 13:12 G 14343819.94 14343820.05 14343820.18 0.0089 0.0045

Saturn 34559-12-13 01:41 G 14343821.44 14343821.57 14343821.70 0.0268 0.0037

Jupiter 34560-01-29 00:57 G 14343868.44 14343868.54 14343868.66 0.0506 0.0399

Neptune 34560-03-08 14:53 G 14343908.00 14343908.12 14343908.24 0.0089 0.0037

Saturn 34560-03-10 12:00 G 14343909.89 14343910.00 14343910.12 0.0267 0.0147

Jupiter 34560-04-28 11:17 G 14343958.86 14343958.97 14343959.07 0.0508 0.0413

Neptune 34560-06-04 16:05 G 14343996.05 14343996.17 14343996.30 0.0088 0.0030

Saturn 34560-06-06 22:33 G 14343998.41 14343998.44 14343998.48 0.0266 0.0256

Neptune 34560-08-31 17:31 G 14344084.10 14344084.23 14344084.36 0.0088 0.0022

Neptune 34560-11-27 18:43 G 14344172.15 14344172.28 14344172.42 0.0088 0.0016

Mars 34560-11-29 05:45 G 14344173.64 14344173.74 14344173.84 0.1866 0.1022

Neptune 34561-02-23 20:09 G 14344260.21 14344260.34 14344260.48 0.0088 0.0008

Moon 34561-05-20 20:38 G 14344346.27 14344346.36 14344346.44 0.2649 0.1629

Earth 34561-05-20 20:53 G 14344346.28 14344346.37 14344346.45 0.2655 0.1636 *

Neptune 34561-05-22 21:36 G 14344348.27 14344348.40 14344348.54 0.0088 0.0001

Neptune 34561-08-18 23:02 G 14344436.32 14344436.46 14344436.59 0.0088 0.0007

Neptune 34561-11-15 00:14 G 14344524.38 14344524.51 14344524.65 0.0088 0.0015

Neptune 34562-02-11 01:41 G 14344612.44 14344612.57 14344612.71 0.0088 0.0022

Neptune 34562-05-10 02:53 G 14344700.50 14344700.62 14344700.76 0.0088 0.0030

Neptune 34562-08-06 04:19 G 14344788.57 14344788.68 14344788.81 0.0088 0.0037

Neptune 34562-11-02 06:00 G 14344876.63 14344876.75 14344876.87 0.0088 0.0044

Neptune 34563-01-29 07:12 G 14344964.70 14344964.80 14344964.92 0.0088 0.0051

Neptune 34563-04-27 08:38 G 14345052.76 14345052.86 14345052.97 0.0088 0.0059

Neptune 34563-07-24 09:50 G 14345140.83 14345140.91 14345141.01 0.0088 0.0066

Neptune 34563-10-20 11:17 G 14345228.91 14345228.97 14345229.06 0.0088 0.0074

Neptune 34564-01-16 12:57 G 14345316.99 14345317.04 14345317.10 0.0088 0.0081

Neptune 34564-04-13 14:24 G 14345405.10 14345405.10 14345405.11 0.0088 0.0088

Earth 34564-11-22 12:00 G 14345627.84 14345628.00 14345628.16 0.2677 0.0216

Moon 34564-11-22 13:26 G 14345627.90 14345628.06 14345628.22 0.2681 0.0283 *

Jupiter 34565-09-20 14:24 G 14345930.01 14345930.10 14345930.19 0.0521 0.0369

Jupiter 34565-12-18 19:41 G 14346019.21 14346019.32 14346019.44 0.0518 0.0222

Uranus 34566-06-13 02:24 G 14346195.54 14346195.60 14346195.67 0.0143 0.0123

Uranus 34566-09-09 06:00 G 14346283.67 14346283.75 14346283.85 0.0143 0.0103

Uranus 34566-12-06 10:05 G 14346371.81 14346371.92 14346372.03 0.0144 0.0081

Uranus 34567-03-04 13:41 G 14346459.95 14346460.07 14346460.20 0.0144 0.0060

Uranus 34567-05-31 17:31 G 14346548.10 14346548.23 14346548.36 0.0144 0.0038

Uranus 34567-08-27 21:21 G 14346636.26 14346636.39 14346636.53 0.0144 0.0016

Uranus 34567-11-24 01:12 G 14346724.41 14346724.55 14346724.69 0.0144 0.0005

Uranus 34568-02-20 05:02 G 14346812.58 14346812.71 14346812.85 0.0144 0.0027

Uranus 34568-05-18 08:53 G 14346900.75 14346900.87 14346901.00 0.0144 0.0050

Uranus 34568-08-14 12:43 G 14346988.92 14346989.03 14346989.16 0.0144 0.0072

Uranus 34568-11-10 16:33 G 14347077.10 14347077.19 14347077.30 0.0144 0.0094

Uranus 34569-02-06 20:38 G 14347165.29 14347165.36 14347165.45 0.0144 0.0116

Uranus 34569-05-06 00:29 G 14347253.50 14347253.52 14347253.57 0.0144 0.0139

Mars 34569-06-26 11:17 G 14347304.93 14347304.97 14347305.02 0.1673 0.1606

Venus 34569-10-29 22:05 G 14347430.33 14347430.42 14347430.50 0.3685 0.2330

Mars 34570-04-21 13:55 G 14347603.96 14347604.08 14347604.20 0.1873 0.0213

Jupiter 34572-02-15 08:24 G 14348268.69 14348268.85 14348269.02 0.0507 0.0213

Moon 34574-05-23 13:26 G 14349096.96 14349097.06 14349097.17 0.2651 0.0485

Earth 34574-05-23 14:09 G 14349096.98 14349097.09 14349097.20 0.2655 0.0343 *

Venus 34575-05-15 14:53 G 14349454.01 14349454.12 14349454.23 0.3684 0.0410

Saturn 34575-07-02 20:53 G 14349502.22 14349502.37 14349502.52 0.0293 0.0166

Saturn 34575-09-29 21:21 G 14349591.21 14349591.39 14349591.57 0.0294 0.0037

Saturn 34575-12-27 21:07 G 14349680.28 14349680.38 14349680.49 0.0295 0.0238

Jupiter 34577-07-09 18:29 G 14350240.27 14350240.27 14350240.28 0.0522 0.0521

Jupiter 34577-10-06 23:45 G 14350329.37 14350329.49 14350329.62 0.0519 0.0072

Mars 34578-11-16 13:55 G 14350734.92 14350735.08 14350735.24 0.1667 0.0294

Venus 34579-05-15 18:14 G 14350915.12 14350915.26 14350915.40 0.3687 0.0770

Mars 34579-09-11 22:05 G 14351034.34 14351034.42 14351034.49 0.1880 0.1469

Pluto 34580-11-17 04:33 G 14351466.67 14351466.69 14351466.74 0.0069 0.0067

Venus 34580-11-28 07:55 G 14351477.73 14351477.83 14351477.93 0.3683 0.1563

Pluto 34581-02-13 05:17 G 14351554.66 14351554.72 14351554.80 0.0069 0.0056

Pluto 34581-05-12 05:45 G 14351642.66 14351642.74 14351642.85 0.0070 0.0047

Pluto 34581-08-08 06:14 G 14351730.66 14351730.76 14351730.89 0.0070 0.0037

Pluto 34581-11-04 07:12 G 14351818.68 14351818.80 14351818.92 0.0070 0.0026

Pluto 34582-01-31 07:41 G 14351906.69 14351906.82 14351906.95 0.0070 0.0016

Pluto 34582-04-29 08:09 G 14351994.71 14351994.84 14351994.97 0.0070 0.0006

Pluto 34582-07-26 08:53 G 14352082.74 14352082.87 14352083.00 0.0070 0.0005

Pluto 34582-10-22 09:07 G 14352170.76 14352170.88 14352171.02 0.0070 0.0016

Pluto 34583-01-18 09:50 G 14352258.79 14352258.91 14352259.04 0.0070 0.0025

Pluto 34583-04-16 10:19 G 14352346.83 14352346.93 14352347.05 0.0070 0.0036

Pluto 34583-07-13 10:48 G 14352434.86 14352434.95 14352435.06 0.0071 0.0046

Pluto 34583-10-09 11:17 G 14352522.91 14352522.97 14352523.06 0.0071 0.0057

Jupiter 34583-12-04 05:31 G 14352578.55 14352578.73 14352578.91 0.0506 0.0013

Pluto 34584-01-05 12:14 G 14352610.97 14352611.01 14352611.05 0.0071 0.0067

Venus 34584-11-28 21:07 G 14352939.31 14352939.38 14352939.44 0.3687 0.3184

Venus 34586-06-14 00:57 G 14353501.52 14353501.54 14353501.56 0.3683 0.3589

Moon 34587-05-26 06:43 G 14353847.68 14353847.78 14353847.88 0.2658 0.0941

Earth 34587-05-26 07:26 G 14353847.71 14353847.81 14353847.91 0.2655 0.0971 *

Mars 34588-04-07 16:05 G 14354165.04 14354165.17 14354165.29 0.1661 0.1034

Saturn 34588-11-05 07:41 G 14354376.74 14354376.82 14354376.90 0.0269 0.0213

Saturn 34589-02-01 18:00 G 14354465.13 14354465.25 14354465.37 0.0268 0.0103

Saturn 34589-05-01 04:19 G 14354553.55 14354553.68 14354553.82 0.0267 0.0009

Jupiter 34589-07-26 04:19 G 14354639.55 14354639.68 14354639.81 0.0520 0.0076

Saturn 34589-07-28 14:53 G 14354642.00 14354642.12 14354642.24 0.0267 0.0117

Saturn 34589-10-25 01:26 G 14354730.49 14354730.56 14354730.63 0.0266 0.0226

Moon 34594-05-19 08:38 G 14356397.84 14356397.86 14356397.88 0.2649 0.2597

Earth 34594-05-19 08:24 G 14356397.85 14356397.85 14356397.85 0.2655 0.2654 *

Jupiter 34595-09-22 02:09 G 14356888.42 14356888.59 14356888.76 0.0506 0.0194

Earth 34597-11-20 10:19 G 14357678.85 14357678.93 14357679.02 0.2677 0.2289

Moon 34597-11-20 11:17 G 14357678.89 14357678.97 14357679.06 0.2683 0.2242 *

Moon 34600-05-29 00:29 G 14358598.47 14358598.52 14358598.58 0.2660 0.2239

Earth 34600-05-29 00:43 G 14358598.48 14358598.53 14358598.59 0.2655 0.2301 *

Mars 34600-05-31 05:45 G 14358600.65 14358600.74 14358600.83 0.1865 0.1180

Jupiter 34601-05-15 08:53 G 14358949.75 14358949.87 14358949.99 0.0521 0.0217

Jupiter 34601-08-12 14:24 G 14359039.01 14359039.10 14359039.19 0.0518 0.0377

Saturn 34604-11-19 18:00 G 14360234.14 14360234.25 14360234.36 0.0293 0.0234

Saturn 34605-02-16 18:29 G 14360323.09 14360323.27 14360323.45 0.0294 0.0032

Saturn 34605-05-16 18:29 G 14360412.13 14360412.27 14360412.42 0.0295 0.0171

Uranus 34607-04-18 05:17 G 14361113.67 14361113.72 14361113.78 0.0135 0.0129

Moon 34607-05-23 01:12 G 14361148.46 14361148.55 14361148.64 0.2649 0.1454

Earth 34607-05-23 01:41 G 14361148.47 14361148.57 14361148.66 0.2655 0.1371 *

Jupiter 34607-07-11 23:17 G 14361198.36 14361198.47 14361198.59 0.0505 0.0393

Uranus 34607-07-15 12:00 G 14361201.89 14361202.00 14361202.13 0.0135 0.0104

Jupiter 34607-10-10 09:07 G 14361288.79 14361288.88 14361288.99 0.0508 0.0418

Uranus 34607-10-11 18:57 G 14361290.14 14361290.29 14361290.44 0.0135 0.0079

Uranus 34608-01-08 01:26 G 14361378.40 14361378.56 14361378.74 0.0135 0.0055

Uranus 34608-04-05 08:24 G 14361466.67 14361466.85 14361467.03 0.0134 0.0030

Uranus 34608-07-02 15:07 G 14361554.94 14361555.13 14361555.31 0.0134 0.0006

Uranus 34608-09-28 21:36 G 14361643.22 14361643.40 14361643.59 0.0134 0.0019

Uranus 34608-12-26 04:05 G 14361731.50 14361731.67 14361731.85 0.0134 0.0043

Uranus 34609-03-24 10:19 G 14361819.79 14361819.93 14361820.10 0.0134 0.0068

Uranus 34609-06-20 17:02 G 14361908.08 14361908.21 14361908.35 0.0134 0.0090

Uranus 34609-09-16 23:17 G 14361996.39 14361996.47 14361996.58 0.0134 0.0114

Mars 34609-10-21 13:55 G 14362030.96 14362031.08 14362031.19 0.1873 0.0089

Earth 34610-11-24 18:43 G 14362430.13 14362430.28 14362430.44 0.2677 0.0798

Moon 34610-11-24 20:24 G 14362430.20 14362430.35 14362430.49 0.2680 0.1095 *

Jupiter 34613-03-03 13:12 G 14363259.96 14363260.05 14363260.14 0.0521 0.0364

Jupiter 34613-05-31 18:29 G 14363349.16 14363349.27 14363349.39 0.0518 0.0227

Saturn 34618-03-26 09:50 G 14365108.87 14365108.91 14365108.96 0.0270 0.0249

Mars 34618-05-18 14:24 G 14365161.95 14365162.10 14365162.25 0.1667 0.0485

Saturn 34618-06-22 20:09 G 14365197.23 14365197.34 14365197.46 0.0269 0.0140

Saturn 34618-09-19 06:43 G 14365285.65 14365285.78 14365285.91 0.0268 0.0029

Saturn 34618-12-16 17:02 G 14365374.09 14365374.21 14365374.34 0.0268 0.0082

Mars 34619-03-13 21:50 G 14365461.33 14365461.41 14365461.50 0.1880 0.1321

Saturn 34619-03-15 03:36 G 14365462.56 14365462.65 14365462.74 0.0267 0.0192

Jupiter 34619-07-29 06:29 G 14365598.60 14365598.77 14365598.93 0.0507 0.0216

Moon 34620-05-24 18:14 G 14365899.15 14365899.26 14365899.37 0.2653 0.0108

Earth 34620-05-24 18:57 G 14365899.18 14365899.29 14365899.40 0.2655 0.0113 *

Venus 34620-11-21 03:07 G 14366079.60 14366079.63 14366079.65 0.3685 0.3542

Jupiter 34624-12-20 17:31 G 14367570.21 14367570.23 14367570.25 0.0521 0.0511

Jupiter 34625-03-19 22:48 G 14367659.32 14367659.45 14367659.58 0.0519 0.0078

Venus 34626-06-06 19:41 G 14368103.23 14368103.32 14368103.42 0.3684 0.1658

Mars 34627-10-08 16:33 G 14368592.05 14368592.19 14368592.33 0.1661 0.0845

Venus 34630-06-06 15:36 G 14369564.12 14369564.15 14369564.19 0.3686 0.3537

Jupiter 34631-05-17 03:36 G 14369908.47 14369908.65 14369908.83 0.0507 0.0015

Venus 34631-12-21 12:43 G 14370126.92 14370127.03 14370127.14 0.3684 0.0290

Moon 34633-05-27 11:31 G 14370649.89 14370649.98 14370650.08 0.2658 0.1101

Earth 34633-05-27 12:14 G 14370649.91 14370650.01 14370650.11 0.2655 0.1246 *

Saturn 34634-04-08 17:17 G 14370966.18 14370966.22 14370966.27 0.0293 0.0283

Saturn 34634-07-06 18:00 G 14371055.07 14371055.25 14371055.42 0.0294 0.0080

Saturn 34634-10-03 18:00 G 14371144.09 14371144.25 14371144.42 0.0295 0.0123

Venus 34635-12-21 18:57 G 14371588.15 14371588.29 14371588.42 0.3687 0.0607

Jupiter 34637-01-06 02:38 G 14371969.49 14371969.61 14371969.74 0.0520 0.0078

Venus 34637-07-06 05:45 G 14372150.65 14372150.74 14372150.82 0.3683 0.2276

Mars 34639-11-30 05:45 G 14373027.66 14373027.74 14373027.83 0.1865 0.1340

Moon 34640-05-20 13:12 G 14373200.00 14373200.05 14373200.09 0.2648 0.2369

Earth 34640-05-20 13:12 G 14373200.00 14373200.05 14373200.09 0.2655 0.2392 *

Neptune 34642-09-11 02:09 G 14374043.58 14374043.59 14374043.62 0.0089 0.0088

Neptune 34642-12-08 05:31 G 14374131.66 14374131.73 14374131.84 0.0089 0.0078

Jupiter 34643-03-05 00:29 G 14374218.36 14374218.52 14374218.70 0.0506 0.0188

Neptune 34643-03-06 09:07 G 14374219.77 14374219.88 14374220.02 0.0089 0.0067

Neptune 34643-06-02 12:29 G 14374307.89 14374308.02 14374308.18 0.0089 0.0057

Neptune 34643-08-29 16:05 G 14374396.02 14374396.17 14374396.34 0.0089 0.0046

Earth 34643-11-22 17:17 G 14374481.10 14374481.22 14374481.34 0.2677 0.1706

Moon 34643-11-22 18:14 G 14374481.13 14374481.26 14374481.39 0.2683 0.1537 *

Neptune 34643-11-25 19:26 G 14374484.15 14374484.31 14374484.50 0.0089 0.0036

Neptune 34644-02-21 23:02 G 14374572.28 14374572.46 14374572.65 0.0089 0.0025

Neptune 34644-05-20 02:24 G 14374660.42 14374660.60 14374660.79 0.0089 0.0015

Neptune 34644-08-16 06:00 G 14374748.56 14374748.75 14374748.94 0.0089 0.0004

Neptune 34644-11-12 09:21 G 14374836.70 14374836.89 14374837.08 0.0089 0.0006

Neptune 34645-02-08 12:29 G 14374924.85 14374925.02 14374925.22 0.0089 0.0017

Neptune 34645-05-07 15:50 G 14375012.99 14375013.16 14375013.35 0.0089 0.0027

Neptune 34645-08-03 19:12 G 14375101.14 14375101.30 14375101.48 0.0089 0.0037

Neptune 34645-10-30 22:48 G 14375189.29 14375189.45 14375189.61 0.0089 0.0047

Neptune 34646-01-27 01:41 G 14375277.45 14375277.57 14375277.73 0.0089 0.0058

Neptune 34646-04-25 05:02 G 14375365.61 14375365.71 14375365.85 0.0089 0.0068

Moon 34646-05-30 05:31 G 14375400.71 14375400.73 14375400.75 0.2661 0.2610

Earth 34646-05-30 05:31 G 14375400.71 14375400.73 14375400.76 0.2654 0.2569 *

Neptune 34646-07-22 08:24 G 14375453.78 14375453.85 14375453.95 0.0089 0.0078

Neptune 34646-10-18 11:45 G 14375541.98 14375541.99 14375542.02 0.0089 0.0088

Saturn 34647-11-09 23:17 G 14375929.37 14375929.47 14375929.58 0.0269 0.0166

Saturn 34648-02-06 09:36 G 14376017.78 14376017.90 14376018.04 0.0268 0.0057

Saturn 34648-05-04 20:09 G 14376106.21 14376106.34 14376106.47 0.0267 0.0055

Saturn 34648-08-01 06:43 G 14376194.67 14376194.78 14376194.88 0.0267 0.0165

Jupiter 34648-10-25 06:57 G 14376279.68 14376279.79 14376279.91 0.0521 0.0224

Jupiter 34649-01-22 12:29 G 14376368.94 14376369.02 14376369.11 0.0518 0.0372

Mars 34649-04-21 13:55 G 14376457.96 14376458.08 14376458.19 0.1873 0.0096

Uranus 34650-04-07 06:00 G 14376808.73 14376808.75 14376808.79 0.0143 0.0139

Uranus 34650-07-04 09:50 G 14376896.84 14376896.91 14376896.99 0.0143 0.0117

Uranus 34650-09-30 13:26 G 14376984.97 14376985.06 14376985.17 0.0143 0.0097

Uranus 34650-12-27 17:17 G 14377073.11 14377073.22 14377073.34 0.0144 0.0075

Uranus 34651-03-25 21:07 G 14377161.26 14377161.38 14377161.51 0.0144 0.0054

Uranus 34651-06-22 00:57 G 14377249.41 14377249.54 14377249.67 0.0144 0.0032

Uranus 34651-09-18 04:48 G 14377337.56 14377337.70 14377337.83 0.0144 0.0011

Uranus 34651-12-15 08:38 G 14377425.72 14377425.86 14377425.99 0.0144 0.0011

Uranus 34652-03-12 12:29 G 14377513.89 14377514.02 14377514.15 0.0144 0.0033

Uranus 34652-06-08 16:19 G 14377602.05 14377602.18 14377602.31 0.0144 0.0055

Uranus 34652-09-04 20:09 G 14377690.23 14377690.34 14377690.46 0.0144 0.0078

Uranus 34652-12-02 00:00 G 14377778.41 14377778.50 14377778.61 0.0144 0.0100

Uranus 34653-02-28 04:05 G 14377866.60 14377866.67 14377866.74 0.0144 0.0122

Moon 34653-05-23 06:00 G 14377950.65 14377950.75 14377950.85 0.2649 0.1129

Earth 34653-05-23 06:14 G 14377950.67 14377950.76 14377950.86 0.2655 0.1105 *

Jupiter 34654-12-21 20:53 G 14378528.26 14378528.37 14378528.49 0.0505 0.0397

Jupiter 34655-03-22 06:57 G 14378618.69 14378618.79 14378618.89 0.0507 0.0413

Earth 34656-11-25 01:26 G 14379232.43 14379232.56 14379232.70 0.2677 0.1366

Moon 34656-11-25 03:07 G 14379232.50 14379232.63 14379232.77 0.2678 0.1494 *

Mars 34657-11-16 15:07 G 14379588.98 14379589.13 14379589.27 0.1667 0.0688

Mars 34658-09-11 22:05 G 14379888.33 14379888.42 14379888.51 0.1880 0.1161

Jupiter 34660-08-13 11:45 G 14380589.90 14380589.99 14380590.08 0.0521 0.0366

Jupiter 34660-11-10 17:02 G 14380679.10 14380679.21 14380679.33 0.0519 0.0228

Saturn 34663-11-23 15:50 G 14381787.00 14381787.16 14381787.32 0.0293 0.0141

Saturn 34664-02-20 16:05 G 14381875.99 14381876.17 14381876.35 0.0294 0.0061

Saturn 34664-05-19 15:50 G 14381965.09 14381965.16 14381965.25 0.0295 0.0262

Moon 34666-05-25 23:02 G 14382701.35 14382701.46 14382701.57 0.2655 0.0089

Earth 34666-05-25 23:45 G 14382701.38 14382701.49 14382701.59 0.2655 0.0227 *

Pluto 34666-12-25 02:24 G 14382914.48 14382914.60 14382914.74 0.0075 0.0057

Jupiter 34667-01-08 04:19 G 14382928.52 14382928.68 14382928.84 0.0507 0.0215

Pluto 34667-03-23 05:17 G 14383002.55 14383002.72 14383002.89 0.0075 0.0038

Mars 34667-04-08 17:17 G 14383019.07 14383019.22 14383019.37 0.1661 0.0638

Pluto 34667-06-19 07:55 G 14383090.64 14383090.83 14383091.02 0.0075 0.0019

Pluto 34667-09-15 10:33 G 14383178.74 14383178.94 14383179.14 0.0074 0.0000

Pluto 34667-12-12 13:12 G 14383266.86 14383267.05 14383267.24 0.0074 0.0019

Pluto 34668-03-09 15:36 G 14383354.99 14383355.15 14383355.33 0.0074 0.0037

Pluto 34668-06-05 17:45 G 14383443.14 14383443.24 14383443.40 0.0074 0.0056

Jupiter 34672-06-01 16:05 G 14384900.15 14384900.17 14384900.19 0.0521 0.0510

Jupiter 34672-08-29 21:21 G 14384989.26 14384989.39 14384989.52 0.0519 0.0080

Saturn 34677-03-29 01:55 G 14386661.49 14386661.58 14386661.67 0.0270 0.0199

Saturn 34677-06-25 12:14 G 14386749.89 14386750.01 14386750.14 0.0269 0.0089

Venus 34677-06-28 00:43 G 14386752.47 14386752.53 14386752.60 0.3685 0.2876

Saturn 34677-09-21 22:48 G 14386838.32 14386838.45 14386838.58 0.0268 0.0022

Saturn 34677-12-19 09:07 G 14386926.77 14386926.88 14386927.00 0.0267 0.0133

Saturn 34678-03-17 19:41 G 14387015.27 14387015.32 14387015.38 0.0267 0.0243

Jupiter 34678-10-27 00:57 G 14387238.36 14387238.54 14387238.73 0.0507 0.0014

Moon 34679-05-28 16:33 G 14387452.10 14387452.19 14387452.27 0.2658 0.1501

Earth 34679-05-28 17:02 G 14387452.12 14387452.21 14387452.30 0.2655 0.1515 *

Mars 34679-05-31 05:45 G 14387454.67 14387454.74 14387454.81 0.1865 0.1479

Venus 34683-01-11 17:31 G 14388776.13 14388776.23 14388776.34 0.3684 0.0971

Jupiter 34684-06-18 01:41 G 14389299.44 14389299.57 14389299.69 0.0519 0.0071

Moon 34686-05-21 17:45 G 14390002.18 14390002.24 14390002.30 0.2648 0.2161

Earth 34686-05-21 17:45 G 14390002.18 14390002.24 14390002.31 0.2655 0.2129 *

Venus 34687-01-11 16:19 G 14390237.06 14390237.18 14390237.29 0.3686 0.2137

Venus 34688-07-27 10:33 G 14390799.83 14390799.94 14390800.04 0.3683 0.0990

Mars 34688-10-20 13:55 G 14390884.97 14390885.08 14390885.20 0.1872 0.0258

Earth 34689-11-23 00:00 G 14391283.36 14391283.50 14391283.65 0.2677 0.1122

Moon 34689-11-23 01:12 G 14391283.40 14391283.55 14391283.69 0.2682 0.1002 *

Jupiter 34690-08-14 22:05 G 14391548.25 14391548.42 14391548.59 0.0506 0.0194

Uranus 34691-05-08 12:14 G 14391814.94 14391815.01 14391815.09 0.0135 0.0123

Uranus 34691-08-04 19:12 G 14391903.17 14391903.30 14391903.43 0.0135 0.0098

Uranus 34691-11-01 01:41 G 14391991.43 14391991.57 14391991.74 0.0134 0.0074

Uranus 34692-01-28 08:38 G 14392079.69 14392079.86 14392080.04 0.0134 0.0048

Uranus 34692-04-25 15:07 G 14392167.96 14392168.13 14392168.32 0.0134 0.0025

Uranus 34692-07-22 22:05 G 14392256.23 14392256.42 14392256.60 0.0134 0.0003

Venus 34692-07-27 19:12 G 14392261.19 14392261.30 14392261.42 0.3687 0.1935

Uranus 34692-10-19 04:33 G 14392344.51 14392344.69 14392344.87 0.0134 0.0025

Uranus 34693-01-15 11:02 G 14392432.79 14392432.96 14392433.13 0.0134 0.0049

Saturn 34693-04-11 15:50 G 14392519.02 14392519.16 14392519.31 0.0293 0.0184

Uranus 34693-04-13 17:31 G 14392521.08 14392521.23 14392521.39 0.0134 0.0072

Saturn 34693-07-09 16:19 G 14392608.00 14392608.18 14392608.36 0.0294 0.0019

Uranus 34693-07-10 23:45 G 14392609.38 14392609.49 14392609.63 0.0134 0.0096

Saturn 34693-10-06 16:05 G 14392697.06 14392697.17 14392697.30 0.0295 0.0221

Uranus 34693-10-07 06:14 G 14392697.69 14392697.76 14392697.85 0.0134 0.0119

Venus 34694-02-10 03:36 G 14392823.59 14392823.65 14392823.71 0.3683 0.2996

Jupiter 34696-04-06 05:31 G 14393609.61 14393609.73 14393609.84 0.0520 0.0226

Jupiter 34696-07-04 10:48 G 14393698.87 14393698.95 14393699.05 0.0518 0.0367

Mars 34697-05-17 15:36 G 14394016.02 14394016.15 14394016.29 0.1667 0.0884

Mars 34698-03-12 22:05 G 14394315.32 14394315.42 14394315.51 0.1880 0.1021

Moon 34699-05-24 10:33 G 14394752.84 14394752.94 14394753.04 0.2650 0.0907

Earth 34699-05-24 11:02 G 14394752.86 14394752.96 14394753.06 0.2655 0.0838 *

Jupiter 34702-06-03 18:57 G 14395858.18 14395858.29 14395858.40 0.0505 0.0397

Jupiter 34702-09-02 05:02 G 14395948.61 14395948.71 14395948.81 0.0507 0.0414

Earth 34702-11-27 08:09 G 14396034.74 14396034.84 14396034.95 0.2677 0.1937

Moon 34702-11-27 10:05 G 14396034.83 14396034.92 14396035.01 0.2677 0.2234 *

Saturn 34706-08-17 05:17 G 14397393.65 14397393.72 14397393.80 0.0270 0.0223

Mars 34706-10-08 17:45 G 14397446.09 14397446.24 14397446.40 0.1661 0.0444

Saturn 34706-11-13 15:36 G 14397482.03 14397482.15 14397482.28 0.0269 0.0113

Saturn 34707-02-10 02:09 G 14397570.46 14397570.59 14397570.72 0.0268 0.0003

Saturn 34707-05-09 12:29 G 14397658.90 14397659.02 14397659.15 0.0267 0.0109

Saturn 34707-08-05 23:02 G 14397747.39 14397747.46 14397747.54 0.0267 0.0219

Jupiter 34708-01-25 09:36 G 14397919.82 14397919.90 14397919.99 0.0521 0.0375

Jupiter 34708-04-23 15:07 G 14398009.01 14398009.13 14398009.25 0.0519 0.0218

Moon 34712-05-27 03:36 G 14399503.55 14399503.65 14399503.76 0.2655 0.0411

Earth 34712-05-27 04:19 G 14399503.58 14399503.68 14399503.79 0.2655 0.0478 *

Jupiter 34714-06-21 01:26 G 14400258.40 14400258.56 14400258.73 0.0507 0.0207

Mars 34718-11-30 06:00 G 14401881.69 14401881.75 14401881.80 0.1865 0.1647

Jupiter 34719-11-13 14:09 G 14402230.08 14402230.09 14402230.11 0.0522 0.0518

Jupiter 34720-02-10 19:26 G 14402319.19 14402319.31 14402319.44 0.0520 0.0075

Saturn 34722-08-30 14:38 G 14403251.01 14403251.11 14403251.23 0.0293 0.0238

Saturn 34722-11-27 15:21 G 14403339.96 14403340.14 14403340.32 0.0294 0.0035

Saturn 34723-02-24 15:21 G 14403428.99 14403429.14 14403429.29 0.0295 0.0167

Neptune 34723-03-30 05:02 G 14403462.68 14403462.71 14403462.77 0.0089 0.0084

Neptune 34723-06-26 06:14 G 14403550.71 14403550.76 14403550.85 0.0089 0.0077

Neptune 34723-09-22 07:55 G 14403638.75 14403638.83 14403638.92 0.0089 0.0069

Neptune 34723-12-19 09:21 G 14403726.80 14403726.89 14403726.99 0.0089 0.0062

Neptune 34724-03-16 10:33 G 14403814.84 14403814.94 14403815.05 0.0089 0.0055

Neptune 34724-06-12 11:45 G 14403902.89 14403902.99 14403903.12 0.0089 0.0048

Neptune 34724-09-08 13:12 G 14403990.94 14403991.05 14403991.18 0.0089 0.0040

Neptune 34724-12-05 14:53 G 14404078.99 14404079.12 14404079.24 0.0089 0.0033

Neptune 34725-03-03 16:05 G 14404167.04 14404167.17 14404167.30 0.0089 0.0026

Moon 34725-05-29 21:21 G 14404254.31 14404254.39 14404254.47 0.2659 0.1683

Earth 34725-05-29 21:50 G 14404254.33 14404254.41 14404254.49 0.2654 0.1789 *

Neptune 34725-05-30 17:31 G 14404255.10 14404255.23 14404255.36 0.0088 0.0018

Neptune 34725-08-26 18:43 G 14404343.15 14404343.28 14404343.42 0.0088 0.0012

Neptune 34725-11-22 20:09 G 14404431.21 14404431.34 14404431.48 0.0088 0.0004

Neptune 34726-02-18 21:36 G 14404519.26 14404519.40 14404519.54 0.0088 0.0004

Jupiter 34726-04-08 22:33 G 14404568.26 14404568.44 14404568.63 0.0506 0.0011

Neptune 34726-05-17 22:48 G 14404607.32 14404607.45 14404607.59 0.0088 0.0012

Neptune 34726-08-14 00:14 G 14404695.38 14404695.51 14404695.65 0.0088 0.0018

Neptune 34726-11-10 01:41 G 14404783.44 14404783.57 14404783.70 0.0088 0.0026

Neptune 34727-02-06 02:53 G 14404871.50 14404871.62 14404871.76 0.0088 0.0033

Neptune 34727-05-05 04:19 G 14404959.57 14404959.68 14404959.81 0.0088 0.0041

Neptune 34727-08-01 05:45 G 14405047.63 14405047.74 14405047.86 0.0088 0.0048

Neptune 34727-10-28 06:57 G 14405135.70 14405135.79 14405135.91 0.0088 0.0056

Neptune 34728-01-24 08:24 G 14405223.77 14405223.85 14405223.96 0.0088 0.0063

Neptune 34728-04-21 10:05 G 14405311.84 14405311.92 14405312.00 0.0088 0.0070

Mars 34728-04-21 13:55 G 14405311.96 14405312.08 14405312.19 0.1872 0.0383 *

Neptune 34728-07-18 11:17 G 14405399.92 14405399.97 14405400.04 0.0088 0.0078

Neptune 34728-10-14 12:43 G 14405488.00 14405488.03 14405488.07 0.0088 0.0085

Jupiter 34731-11-30 00:00 G 14406629.37 14406629.50 14406629.62 0.0520 0.0073

Moon 34732-05-22 22:33 G 14406804.36 14406804.44 14406804.51 0.2648 0.1836

Earth 34732-05-22 22:33 G 14406804.37 14406804.44 14406804.52 0.2655 0.1862 *

Venus 34734-02-02 22:33 G 14407425.35 14407425.44 14407425.53 0.3685 0.2203

Uranus 34734-04-28 12:57 G 14407510.00 14407510.04 14407510.09 0.0143 0.0135

Uranus 34734-07-25 16:48 G 14407598.12 14407598.20 14407598.28 0.0143 0.0114

Uranus 34734-10-21 20:24 G 14407686.25 14407686.35 14407686.46 0.0144 0.0093

Uranus 34735-01-18 00:14 G 14407774.40 14407774.51 14407774.63 0.0144 0.0071

Uranus 34735-04-16 04:05 G 14407862.54 14407862.67 14407862.80 0.0144 0.0050

Uranus 34735-07-13 07:55 G 14407950.69 14407950.83 14407950.96 0.0144 0.0029

Uranus 34735-10-09 11:45 G 14408038.85 14408038.99 14408039.12 0.0144 0.0008

Earth 34735-11-25 06:57 G 14408085.63 14408085.79 14408085.94 0.2677 0.0544

Moon 34735-11-25 08:09 G 14408085.69 14408085.84 14408086.00 0.2681 0.0397 *

Saturn 34736-01-04 08:09 G 14408125.80 14408125.84 14408125.88 0.0270 0.0255

Uranus 34736-01-05 15:36 G 14408127.01 14408127.15 14408127.28 0.0144 0.0015

Saturn 34736-04-01 18:29 G 14408214.16 14408214.27 14408214.38 0.0270 0.0144

Uranus 34736-04-02 19:26 G 14408215.18 14408215.31 14408215.44 0.0144 0.0037

Saturn 34736-06-29 04:48 G 14408302.57 14408302.70 14408302.84 0.0269 0.0034

Uranus 34736-06-29 23:17 G 14408303.35 14408303.47 14408303.59 0.0144 0.0059

Saturn 34736-09-25 15:21 G 14408391.01 14408391.14 14408391.27 0.0268 0.0078

Uranus 34736-09-26 03:07 G 14408391.52 14408391.63 14408391.74 0.0144 0.0081

Mars 34736-11-16 16:05 G 14408443.05 14408443.17 14408443.29 0.1667 0.1079

Saturn 34736-12-23 01:55 G 14408479.48 14408479.58 14408479.67 0.0267 0.0188

Uranus 34736-12-23 06:57 G 14408479.70 14408479.79 14408479.89 0.0144 0.0104

Uranus 34737-03-21 11:02 G 14408567.90 14408567.96 14408568.03 0.0144 0.0126

Mars 34737-09-11 22:05 G 14408742.32 14408742.42 14408742.52 0.1880 0.0860

Jupiter 34738-01-25 18:57 G 14408878.13 14408878.29 14408878.46 0.0506 0.0207

Venus 34739-08-19 15:21 G 14409449.03 14409449.14 14409449.25 0.3684 0.0282

Venus 34743-08-19 16:48 G 14410910.07 14410910.20 14410910.34 0.3687 0.0750

Jupiter 34743-09-18 04:05 G 14410939.56 14410939.67 14410939.79 0.0520 0.0222

Jupiter 34743-12-16 09:36 G 14411028.81 14411028.90 14411028.99 0.0518 0.0371

Venus 34745-03-04 08:24 G 14411472.75 14411472.85 14411472.94 0.3683 0.1693

Moon 34745-05-25 15:21 G 14411555.03 14411555.14 14411555.24 0.2652 0.0674

Earth 34745-05-25 15:50 G 14411555.06 14411555.16 14411555.27 0.2654 0.0568 *

Mars 34746-04-08 18:29 G 14411873.11 14411873.27 14411873.43 0.1661 0.0255

Earth 34748-11-27 14:53 G 14412837.07 14412837.12 14412837.18 0.2677 0.2501

Venus 34749-03-04 19:41 G 14412934.26 14412934.32 14412934.38 0.3687 0.3248

Jupiter 34749-11-13 15:50 G 14413188.06 14413188.16 14413188.27 0.0505 0.0410

Jupiter 34750-02-12 02:09 G 14413278.48 14413278.59 14413278.70 0.0508 0.0403

Saturn 34752-01-17 14:53 G 14413983.07 14413983.12 14413983.18 0.0292 0.0279

Saturn 34752-04-15 15:21 G 14414071.97 14414072.14 14414072.32 0.0293 0.0076

Saturn 34752-07-13 15:36 G 14414160.99 14414161.15 14414161.32 0.0294 0.0127

Jupiter 34755-07-07 07:55 G 14415249.75 14415249.83 14415249.92 0.0521 0.0380

Mars 34755-08-29 20:38 G 14415303.31 14415303.36 14415303.41 0.1656 0.1569

Jupiter 34755-10-04 13:12 G 14415338.94 14415339.05 14415339.17 0.0519 0.0212

Moon 34758-05-28 08:24 G 14416305.75 14416305.85 14416305.96 0.2655 0.0625

Earth 34758-05-28 09:07 G 14416305.78 14416305.88 14416305.99 0.2654 0.0740 *

Mars 34758-05-31 06:00 G 14416308.72 14416308.75 14416308.78 0.1865 0.1798

Jupiter 34761-11-30 23:17 G 14417588.30 14417588.47 14417588.64 0.0507 0.0203

Saturn 34765-08-19 22:05 G 14418946.32 14418946.42 14418946.53 0.0269 0.0165

Saturn 34765-11-16 08:24 G 14419034.72 14419034.85 14419034.99 0.0269 0.0055

Saturn 34766-02-12 18:57 G 14419123.16 14419123.29 14419123.42 0.0268 0.0057

Saturn 34766-05-12 05:31 G 14419211.62 14419211.73 14419211.83 0.0267 0.0167

Jupiter 34767-07-23 17:31 G 14419649.10 14419649.23 14419649.35 0.0520 0.0063

Mars 34767-10-21 13:55 G 14419738.97 14419739.08 14419739.19 0.1872 0.0543

Moon 34771-05-31 02:09 G 14421056.52 14421056.59 14421056.66 0.2661 0.2054

Earth 34771-05-31 02:24 G 14421056.54 14421056.60 14421056.67 0.2654 0.2056 *

Jupiter 34773-09-18 19:41 G 14421898.14 14421898.32 14421898.50 0.0506 0.0008

Uranus 34775-05-29 18:57 G 14422516.21 14422516.29 14422516.38 0.0135 0.0118

Uranus 34775-08-26 01:55 G 14422604.44 14422604.58 14422604.71 0.0135 0.0093

Uranus 34775-11-22 08:24 G 14422692.70 14422692.85 14422693.02 0.0134 0.0068

Uranus 34776-02-18 15:21 G 14422780.96 14422781.14 14422781.32 0.0134 0.0043

Uranus 34776-05-16 21:50 G 14422869.23 14422869.41 14422869.60 0.0134 0.0020

Mars 34776-05-17 16:48 G 14422870.10 14422870.20 14422870.30 0.1668 0.1275

Uranus 34776-08-13 04:33 G 14422957.51 14422957.69 14422957.88 0.0134 0.0006

Uranus 34776-11-09 11:17 G 14423045.79 14423045.97 14423046.15 0.0134 0.0029

Uranus 34777-02-05 17:45 G 14423134.07 14423134.24 14423134.41 0.0134 0.0053

Mars 34777-03-12 22:05 G 14423169.31 14423169.42 14423169.53 0.1879 0.0712

Uranus 34777-05-05 00:00 G 14423222.36 14423222.50 14423222.66 0.0134 0.0077

Uranus 34777-08-01 06:43 G 14423310.66 14423310.78 14423310.90 0.0134 0.0101

Uranus 34777-10-28 12:43 G 14423398.98 14423399.03 14423399.11 0.0134 0.0124

Moon 34778-05-24 03:07 G 14423606.55 14423606.63 14423606.72 0.2648 0.1669

Earth 34778-05-24 03:21 G 14423606.55 14423606.64 14423606.73 0.2655 0.1597 *

Jupiter 34779-05-11 21:50 G 14423959.28 14423959.41 14423959.54 0.0520 0.0084

Jupiter 34779-08-09 03:21 G 14424048.63 14424048.64 14424048.66 0.0518 0.0511

Saturn 34781-09-02 15:07 G 14424803.97 14424804.13 14424804.30 0.0293 0.0124

Earth 34781-11-25 13:41 G 14424887.91 14424888.07 14424888.23 0.2677 0.0047

Moon 34781-11-25 15:21 G 14424887.98 14424888.14 14424888.29 0.2680 0.0323 *

Saturn 34781-11-30 15:21 G 14424892.97 14424893.14 14424893.32 0.0294 0.0079

Saturn 34782-02-27 15:21 G 14424982.09 14424982.14 14424982.20 0.0295 0.0280

Venus 34785-02-24 03:36 G 14426074.61 14426074.65 14426074.69 0.3685 0.3423

Jupiter 34785-07-07 16:33 G 14426208.02 14426208.19 14426208.35 0.0506 0.0213

Mars 34785-10-07 19:12 G 14426300.14 14426300.30 14426300.46 0.1662 0.0057

Venus 34790-09-09 20:24 G 14428098.25 14428098.35 14428098.44 0.3684 0.1530

Jupiter 34791-02-28 02:24 G 14428269.48 14428269.60 14428269.71 0.0520 0.0228

Moon 34791-05-26 19:55 G 14428357.22 14428357.33 14428357.44 0.2653 0.0356

Earth 34791-05-26 20:38 G 14428357.25 14428357.36 14428357.47 0.2654 0.0302 *

Jupiter 34791-05-28 07:41 G 14428358.73 14428358.82 14428358.91 0.0518 0.0365

Venus 34794-09-09 14:09 G 14429559.05 14429559.09 14429559.12 0.3686 0.3565

Saturn 34795-01-07 00:57 G 14429678.45 14429678.54 14429678.63 0.0270 0.0195

Mars 34795-02-27 21:07 G 14429730.29 14429730.38 14429730.47 0.1656 0.1380

Saturn 34795-04-05 11:31 G 14429766.85 14429766.98 14429767.10 0.0269 0.0084

Saturn 34795-07-02 21:50 G 14429855.28 14429855.41 14429855.54 0.0268 0.0027

Saturn 34795-09-29 08:09 G 14429943.73 14429943.84 14429943.96 0.0268 0.0139

Saturn 34795-12-26 18:43 G 14430032.24 14430032.28 14430032.33 0.0267 0.0249

Venus 34796-03-25 13:12 G 14430121.94 14430122.05 14430122.15 0.3684 0.0417

Jupiter 34797-04-25 12:29 G 14430517.93 14430518.02 14430518.12 0.0506 0.0427

Jupiter 34797-07-24 22:48 G 14430608.34 14430608.45 14430608.57 0.0508 0.0388

Venus 34800-03-25 17:31 G 14431583.09 14431583.23 14431583.36 0.3687 0.0632

Venus 34801-10-09 06:14 G 14432145.68 14432145.76 14432145.84 0.3683 0.2406

Jupiter 34802-12-17 06:43 G 14432579.69 14432579.78 14432579.86 0.0521 0.0376

Jupiter 34803-03-16 12:00 G 14432668.88 14432669.00 14432669.12 0.0518 0.0215

Moon 34804-05-28 13:12 G 14433107.95 14433108.05 14433108.16 0.2656 0.0926

Earth 34804-05-28 13:55 G 14433107.98 14433108.08 14433108.18 0.2654 0.1008 *

Mars 34807-04-21 14:09 G 14434165.98 14434166.09 14434166.19 0.1872 0.0709

Neptune 34807-06-09 01:12 G 14434214.50 14434214.55 14434214.63 0.0089 0.0083

Neptune 34807-09-05 04:48 G 14434302.60 14434302.70 14434302.82 0.0089 0.0072

Neptune 34807-12-02 08:09 G 14434390.72 14434390.84 14434390.99 0.0089 0.0062

Neptune 34808-02-28 11:45 G 14434478.84 14434478.99 14434479.15 0.0089 0.0051

Neptune 34808-05-26 15:07 G 14434566.97 14434567.13 14434567.31 0.0089 0.0041

Neptune 34808-08-22 18:43 G 14434655.11 14434655.28 14434655.46 0.0089 0.0030

Neptune 34808-11-18 22:05 G 14434743.24 14434743.42 14434743.61 0.0089 0.0020

Neptune 34809-02-15 01:41 G 14434831.38 14434831.57 14434831.76 0.0089 0.0009

Jupiter 34809-05-12 20:09 G 14434918.17 14434918.34 14434918.51 0.0507 0.0187

Neptune 34809-05-14 05:02 G 14434919.52 14434919.71 14434919.90 0.0089 0.0002

Neptune 34809-08-10 08:24 G 14435007.67 14435007.85 14435008.04 0.0089 0.0012

Neptune 34809-11-06 11:45 G 14435095.81 14435095.99 14435096.18 0.0089 0.0022

Neptune 34810-02-02 14:53 G 14435183.96 14435184.12 14435184.31 0.0089 0.0033

Neptune 34810-05-01 18:29 G 14435272.11 14435272.27 14435272.44 0.0089 0.0043

Neptune 34810-07-28 21:50 G 14435360.27 14435360.41 14435360.57 0.0089 0.0053

Neptune 34810-10-25 01:12 G 14435448.43 14435448.55 14435448.69 0.0089 0.0063

Saturn 34811-01-20 15:36 G 14435536.00 14435536.15 14435536.30 0.0293 0.0163

Neptune 34811-01-21 04:05 G 14435536.59 14435536.67 14435536.80 0.0089 0.0074

Neptune 34811-04-19 07:26 G 14435624.77 14435624.81 14435624.89 0.0089 0.0084

Saturn 34811-04-19 15:50 G 14435624.98 14435625.16 14435625.34 0.0294 0.0040

Earth 34811-05-22 14:53 G 14435658.11 14435658.12 14435658.13 0.2655 0.2618

Moon 34811-05-22 15:07 G 14435658.13 14435658.13 14435658.13 0.2648 0.2646 *

Saturn 34811-07-17 15:50 G 14435714.06 14435714.16 14435714.27 0.0295 0.0241

Earth 34814-11-23 12:00 G 14436938.94 14436939.00 14436939.06 0.2677 0.2479

Moon 34814-11-23 12:43 G 14436938.95 14436939.03 14436939.11 0.2683 0.2282 *

Jupiter 34815-01-02 15:36 G 14436979.02 14436979.15 14436979.28 0.0519 0.0054

Mars 34815-11-16 17:31 G 14437297.16 14437297.23 14437297.30 0.1668 0.1480

Mars 34816-09-10 22:05 G 14437596.31 14437596.42 14437596.53 0.1879 0.0558

Moon 34817-05-31 06:57 G 14437858.74 14437858.79 14437858.85 0.2661 0.2274

Earth 34817-05-31 07:12 G 14437858.75 14437858.80 14437858.85 0.2654 0.2328 *

Uranus 34818-05-18 19:41 G 14438211.27 14438211.32 14438211.37 0.0143 0.0133

Uranus 34818-08-14 23:17 G 14438299.39 14438299.47 14438299.56 0.0144 0.0112

Uranus 34818-11-11 03:07 G 14438387.53 14438387.63 14438387.73 0.0144 0.0091

Uranus 34819-02-07 06:43 G 14438475.67 14438475.78 14438475.90 0.0144 0.0070

Uranus 34819-05-06 10:33 G 14438563.82 14438563.94 14438564.07 0.0144 0.0048

Uranus 34819-08-02 14:24 G 14438651.97 14438652.10 14438652.23 0.0144 0.0027

Uranus 34819-10-29 18:14 G 14438740.12 14438740.26 14438740.40 0.0144 0.0005

Uranus 34820-01-25 22:05 G 14438828.28 14438828.42 14438828.55 0.0144 0.0017

Uranus 34820-04-23 01:55 G 14438916.45 14438916.58 14438916.71 0.0144 0.0039

Uranus 34820-07-20 05:45 G 14439004.62 14439004.74 14439004.87 0.0144 0.0061

Uranus 34820-10-16 09:36 G 14439092.79 14439092.90 14439093.02 0.0144 0.0083

Uranus 34821-01-12 13:41 G 14439180.98 14439181.07 14439181.16 0.0144 0.0106

Jupiter 34821-02-28 17:17 G 14439228.03 14439228.22 14439228.40 0.0506 0.0015

Uranus 34821-04-10 17:31 G 14439269.17 14439269.23 14439269.29 0.0144 0.0128

Moon 34824-05-24 07:41 G 14440408.73 14440408.82 14440408.92 0.2649 0.1323

Earth 34824-05-24 08:09 G 14440408.74 14440408.84 14440408.93 0.2654 0.1334 *

Saturn 34824-05-26 04:48 G 14440410.62 14440410.70 14440410.78 0.0270 0.0215

Saturn 34824-08-22 15:07 G 14440499.01 14440499.13 14440499.26 0.0269 0.0104

Saturn 34824-11-19 01:41 G 14440587.43 14440587.57 14440587.70 0.0268 0.0009

Saturn 34825-02-15 12:00 G 14440675.88 14440676.00 14440676.12 0.0267 0.0118

Mars 34825-04-07 19:41 G 14440727.16 14440727.32 14440727.48 0.1662 0.0152

Saturn 34825-05-14 22:33 G 14440764.37 14440764.44 14440764.51 0.0267 0.0229

Mars 34826-02-01 06:14 G 14441026.73 14441026.76 14441026.79 0.1886 0.1821

Pluto 34826-07-19 20:09 G 14441195.34 14441195.34 14441195.38 0.0069 0.0069

Pluto 34826-10-15 20:53 G 14441283.31 14441283.37 14441283.45 0.0069 0.0058

Jupiter 34826-10-21 19:41 G 14441289.20 14441289.32 14441289.45 0.0520 0.0097

Pluto 34827-01-11 21:21 G 14441371.31 14441371.39 14441371.50 0.0069 0.0049

Jupiter 34827-01-19 01:12 G 14441378.52 14441378.55 14441378.59 0.0518 0.0497

Pluto 34827-04-09 22:19 G 14441459.32 14441459.43 14441459.54 0.0070 0.0038

Pluto 34827-07-06 22:48 G 14441547.33 14441547.45 14441547.57 0.0070 0.0028

Pluto 34827-10-02 23:17 G 14441635.35 14441635.47 14441635.60 0.0070 0.0018

Earth 34827-11-26 20:24 G 14441690.19 14441690.35 14441690.50 0.2677 0.0616

Moon 34827-11-26 22:05 G 14441690.27 14441690.42 14441690.58 0.2679 0.0750 *

Pluto 34827-12-29 23:45 G 14441723.37 14441723.49 14441723.63 0.0070 0.0008

Pluto 34828-03-27 00:29 G 14441811.39 14441811.52 14441811.65 0.0070 0.0003

Pluto 34828-06-23 00:57 G 14441899.41 14441899.54 14441899.67 0.0070 0.0013

Pluto 34828-09-19 01:26 G 14441987.44 14441987.56 14441987.69 0.0070 0.0024

Pluto 34828-12-16 01:55 G 14442075.48 14442075.58 14442075.70 0.0070 0.0034

Pluto 34829-03-14 02:38 G 14442163.51 14442163.61 14442163.71 0.0071 0.0045

Pluto 34829-06-10 03:21 G 14442251.56 14442251.64 14442251.72 0.0071 0.0055

Pluto 34829-09-06 03:36 G 14442339.62 14442339.65 14442339.71 0.0071 0.0066

Jupiter 34832-12-17 13:26 G 14443537.90 14443538.06 14443538.23 0.0505 0.0225

Mars 34834-08-28 21:50 G 14444157.30 14444157.41 14444157.52 0.1656 0.1177

Moon 34837-05-27 00:43 G 14445159.42 14445159.53 14445159.64 0.2653 0.0182

Earth 34837-05-27 01:26 G 14445159.45 14445159.56 14445159.67 0.2654 0.0062 *

Jupiter 34838-08-10 00:00 G 14445599.39 14445599.50 14445599.62 0.0521 0.0244

Jupiter 34838-11-07 05:31 G 14445688.64 14445688.73 14445688.83 0.0519 0.0351

Saturn 34840-06-08 15:21 G 14446268.02 14446268.14 14446268.27 0.0293 0.0210

Saturn 34840-09-05 15:50 G 14446356.98 14446357.16 14446357.34 0.0294 0.0006

Saturn 34840-12-03 15:50 G 14446446.03 14446446.16 14446446.30 0.0295 0.0196

Venus 34841-10-01 01:26 G 14446747.49 14446747.56 14446747.62 0.3685 0.2763

Jupiter 34844-10-05 10:05 G 14447847.83 14447847.92 14447848.01 0.0505 0.0432

Jupiter 34845-01-03 20:09 G 14447938.23 14447938.34 14447938.46 0.0507 0.0381

Mars 34846-10-20 13:55 G 14448592.98 14448593.08 14448593.19 0.1872 0.0847

Venus 34847-04-16 18:00 G 14448771.15 14448771.25 14448771.36 0.3684 0.0857

Jupiter 34850-05-29 04:33 G 14449909.61 14449909.69 14449909.78 0.0521 0.0386

Moon 34850-05-29 18:14 G 14449910.16 14449910.26 14449910.35 0.2658 0.1230

Earth 34850-05-29 18:43 G 14449910.18 14449910.28 14449910.37 0.2654 0.1274 *

Jupiter 34850-08-26 10:05 G 14449998.80 14449998.92 14449999.04 0.0519 0.0207

Venus 34851-04-16 14:38 G 14450232.00 14450232.11 14450232.23 0.3686 0.2147

Venus 34852-10-30 11:02 G 14450794.85 14450794.96 14450795.06 0.3684 0.1114

Saturn 34853-10-13 07:55 G 14451142.77 14451142.83 14451142.88 0.0270 0.0243

Saturn 34854-01-09 18:14 G 14451231.14 14451231.26 14451231.37 0.0269 0.0132

Saturn 34854-04-08 04:33 G 14451319.56 14451319.69 14451319.83 0.0269 0.0022

Saturn 34854-07-05 15:07 G 14451408.00 14451408.13 14451408.25 0.0268 0.0090

Saturn 34854-10-02 01:41 G 14451496.48 14451496.57 14451496.65 0.0267 0.0200

Mars 34856-03-11 22:05 G 14452023.31 14452023.42 14452023.54 0.1879 0.0406

Jupiter 34856-10-22 16:33 G 14452248.02 14452248.19 14452248.37 0.0507 0.0170

Venus 34856-10-30 17:45 G 14452256.12 14452256.24 14452256.36 0.3687 0.1949

Moon 34857-05-22 19:41 G 14452460.27 14452460.32 14452460.37 0.2647 0.2285

Earth 34857-05-22 19:41 G 14452460.27 14452460.32 14452460.37 0.2655 0.2353 *

Venus 34858-05-16 04:05 G 14452818.61 14452818.67 14452818.72 0.3683 0.3122

Uranus 34859-06-19 01:12 G 14453217.47 14453217.55 14453217.67 0.0135 0.0114

Uranus 34859-09-15 08:09 G 14453305.71 14453305.84 14453305.99 0.0135 0.0089

Uranus 34859-12-12 15:07 G 14453393.97 14453394.13 14453394.30 0.0135 0.0064

Uranus 34860-03-09 21:50 G 14453482.24 14453482.41 14453482.59 0.0134 0.0039

Uranus 34860-06-06 04:33 G 14453570.51 14453570.69 14453570.88 0.0134 0.0015

Uranus 34860-09-02 11:17 G 14453658.78 14453658.97 14453659.15 0.0134 0.0010

Earth 34860-11-23 18:43 G 14453741.17 14453741.28 14453741.40 0.2677 0.1887

Moon 34860-11-23 19:55 G 14453741.22 14453741.33 14453741.45 0.2682 0.1842 *

Uranus 34860-11-29 17:45 G 14453747.06 14453747.24 14453747.42 0.0134 0.0034

Uranus 34861-02-26 00:00 G 14453835.35 14453835.50 14453835.68 0.0134 0.0059

Uranus 34861-05-25 06:43 G 14453923.64 14453923.78 14453923.93 0.0134 0.0082

Uranus 34861-08-21 12:57 G 14454011.94 14454012.04 14454012.16 0.0134 0.0105

Uranus 34861-11-17 19:26 G 14454100.27 14454100.31 14454100.37 0.0134 0.0128

Jupiter 34862-06-14 14:09 G 14454308.97 14454309.09 14454309.22 0.0519 0.0060

Moon 34863-06-01 11:45 G 14454660.97 14454660.99 14454661.02 0.2661 0.2588

Earth 34863-06-01 12:00 G 14454660.98 14454661.00 14454661.02 0.2654 0.2598 *

Mars 34864-10-06 20:09 G 14455154.18 14455154.34 14455154.50 0.1662 0.0344

Mars 34865-08-02 06:14 G 14455453.71 14455453.76 14455453.82 0.1886 0.1660

Jupiter 34868-08-10 13:55 G 14456557.90 14456558.08 14456558.26 0.0506 0.0031

Saturn 34869-10-26 15:07 G 14457000.05 14457000.13 14457000.23 0.0292 0.0254

Saturn 34870-01-23 15:50 G 14457088.98 14457089.16 14457089.34 0.0293 0.0050

Saturn 34870-04-22 15:50 G 14457178.01 14457178.16 14457178.32 0.0294 0.0154

Moon 34870-05-25 12:29 G 14457210.92 14457211.02 14457211.11 0.2650 0.1189

Earth 34870-05-25 12:57 G 14457210.94 14457211.04 14457211.14 0.2654 0.1072 *

Earth 34873-11-27 03:07 G 14458492.49 14458492.63 14458492.78 0.2677 0.1200

Moon 34873-11-27 05:02 G 14458492.58 14458492.71 14458492.84 0.2680 0.1521 *

Mars 34874-02-26 22:33 G 14458584.31 14458584.44 14458584.57 0.1656 0.0973

Jupiter 34874-04-02 17:45 G 14458619.12 14458619.24 14458619.37 0.0520 0.0105

Jupiter 34874-06-30 23:17 G 14458708.43 14458708.47 14458708.51 0.0518 0.0489

Jupiter 34880-05-29 11:02 G 14460867.80 14460867.96 14460868.12 0.0506 0.0230

Saturn 34883-03-02 11:31 G 14461874.96 14461874.98 14461875.01 0.0270 0.0264

Moon 34883-05-28 05:31 G 14461961.62 14461961.73 14461961.84 0.2653 0.0208

Earth 34883-05-28 06:00 G 14461961.65 14461961.75 14461961.86 0.2654 0.0257 *

Saturn 34883-05-29 21:50 G 14461963.31 14461963.41 14461963.53 0.0269 0.0153

Saturn 34883-08-26 08:24 G 14462051.72 14462051.85 14462051.98 0.0269 0.0042

Saturn 34883-11-22 18:43 G 14462140.15 14462140.28 14462140.41 0.0268 0.0070

Saturn 34884-02-19 05:17 G 14462228.62 14462228.72 14462228.82 0.0267 0.0180

Jupiter 34886-01-19 22:05 G 14462929.31 14462929.42 14462929.53 0.0521 0.0256

Jupiter 34886-04-19 03:21 G 14463018.55 14463018.64 14463018.74 0.0519 0.0338

Mars 34886-04-20 13:55 G 14463019.98 14463020.08 14463020.18 0.1872 0.1004

Neptune 34887-09-28 03:50 G 14463545.64 14463545.66 14463545.69 0.0089 0.0087

Neptune 34887-12-25 05:02 G 14463633.67 14463633.71 14463633.78 0.0089 0.0080

Neptune 34888-03-22 06:29 G 14463721.70 14463721.77 14463721.86 0.0089 0.0072

Neptune 34888-06-18 07:55 G 14463809.75 14463809.83 14463809.93 0.0089 0.0065

Neptune 34888-09-14 09:21 G 14463897.79 14463897.89 14463897.99 0.0089 0.0058

Neptune 34888-12-11 10:33 G 14463985.84 14463985.94 14463986.06 0.0089 0.0051

Neptune 34889-03-09 12:00 G 14464073.89 14464074.00 14464074.12 0.0089 0.0043

Neptune 34889-06-05 13:26 G 14464161.94 14464162.06 14464162.18 0.0088 0.0036

Neptune 34889-09-01 14:38 G 14464249.99 14464250.11 14464250.24 0.0088 0.0029

Neptune 34889-11-28 16:05 G 14464338.04 14464338.17 14464338.30 0.0088 0.0021

Neptune 34890-02-24 17:31 G 14464426.10 14464426.23 14464426.36 0.0088 0.0014

Neptune 34890-05-23 18:57 G 14464514.15 14464514.29 14464514.42 0.0088 0.0007

Neptune 34890-08-19 20:09 G 14464602.21 14464602.34 14464602.48 0.0088 0.0003

Neptune 34890-11-15 21:36 G 14464690.27 14464690.40 14464690.54 0.0088 0.0008

Neptune 34891-02-11 22:48 G 14464778.32 14464778.45 14464778.59 0.0088 0.0016

Neptune 34891-05-11 00:14 G 14464866.38 14464866.51 14464866.65 0.0088 0.0023

Neptune 34891-08-07 01:41 G 14464954.45 14464954.57 14464954.70 0.0088 0.0030

Neptune 34891-11-03 02:53 G 14465042.51 14465042.62 14465042.75 0.0088 0.0038

Neptune 34892-01-30 04:33 G 14465130.57 14465130.69 14465130.81 0.0088 0.0045

Jupiter 34892-03-17 07:12 G 14465177.72 14465177.80 14465177.89 0.0505 0.0441

Neptune 34892-04-27 05:45 G 14465218.64 14465218.74 14465218.86 0.0088 0.0052

Jupiter 34892-06-15 17:31 G 14465268.11 14465268.23 14465268.35 0.0507 0.0371

Neptune 34892-07-24 07:12 G 14465306.71 14465306.80 14465306.91 0.0088 0.0059

Neptune 34892-10-20 08:38 G 14465394.78 14465394.86 14465394.95 0.0088 0.0067

Neptune 34893-01-16 09:50 G 14465482.85 14465482.91 14465482.99 0.0088 0.0075

Neptune 34893-04-14 11:17 G 14465570.93 14465570.97 14465571.03 0.0088 0.0082

Mars 34895-09-10 22:05 G 14466450.31 14466450.42 14466450.54 0.1879 0.0254

Moon 34896-05-29 23:02 G 14466712.37 14466712.46 14466712.55 0.2659 0.1437

Earth 34896-05-29 23:31 G 14466712.39 14466712.48 14466712.56 0.2654 0.1547 *

Jupiter 34897-11-08 02:24 G 14467239.52 14467239.60 14467239.68 0.0522 0.0402

Jupiter 34898-02-05 07:41 G 14467328.70 14467328.82 14467328.94 0.0519 0.0191

Venus 34898-05-07 23:02 G 14467420.37 14467420.46 14467420.55 0.3685 0.2093

Saturn 34899-06-12 15:50 G 14467820.99 14467821.16 14467821.34 0.0293 0.0095

Saturn 34899-09-09 16:05 G 14467910.01 14467910.17 14467910.34 0.0294 0.0110

Uranus 34902-06-09 02:24 G 14468912.54 14468912.60 14468912.65 0.0143 0.0131

Uranus 34902-09-05 06:00 G 14469000.67 14469000.75 14469000.83 0.0144 0.0110

Uranus 34902-12-02 09:36 G 14469088.80 14469088.90 14469089.01 0.0144 0.0089

Uranus 34903-02-28 13:26 G 14469176.94 14469177.06 14469177.18 0.0144 0.0068

Moon 34903-05-25 00:29 G 14469262.45 14469262.52 14469262.58 0.2648 0.2113

Earth 34903-05-25 00:29 G 14469262.45 14469262.52 14469262.58 0.2655 0.2088 *

Uranus 34903-05-27 17:02 G 14469265.09 14469265.21 14469265.34 0.0144 0.0047

Uranus 34903-08-23 20:53 G 14469353.24 14469353.37 14469353.51 0.0144 0.0025

Uranus 34903-11-20 00:43 G 14469441.40 14469441.53 14469441.67 0.0144 0.0004

Venus 34903-11-22 15:50 G 14469444.05 14469444.16 14469444.27 0.3684 0.0165

Uranus 34904-02-16 04:33 G 14469529.56 14469529.69 14469529.83 0.0144 0.0019

Jupiter 34904-04-04 14:24 G 14469577.93 14469578.10 14469578.27 0.0507 0.0166

Mars 34904-04-07 20:53 G 14469581.22 14469581.37 14469581.52 0.1662 0.0549

Uranus 34904-05-14 08:24 G 14469617.72 14469617.85 14469617.98 0.0144 0.0041

Uranus 34904-08-10 12:14 G 14469705.89 14469706.01 14469706.14 0.0144 0.0063

Uranus 34904-11-06 16:05 G 14469794.07 14469794.17 14469794.29 0.0144 0.0085

Mars 34905-02-01 06:14 G 14469880.69 14469880.76 14469880.82 0.1886 0.1529

Uranus 34905-02-02 20:09 G 14469882.25 14469882.34 14469882.43 0.0144 0.0107

Uranus 34905-05-02 00:00 G 14469970.45 14469970.50 14469970.56 0.0144 0.0130

Earth 34906-11-26 01:41 G 14470543.43 14470543.57 14470543.71 0.2677 0.1296

Moon 34906-11-26 03:07 G 14470543.48 14470543.63 14470543.78 0.2681 0.1027 *

Venus 34907-11-22 15:21 G 14470905.00 14470905.14 14470905.28 0.3686 0.0754

Venus 34909-06-07 08:53 G 14471467.77 14471467.87 14471467.96 0.3683 0.1824

Jupiter 34909-11-25 12:14 G 14471638.88 14471639.01 14471639.14 0.0520 0.0050

Pluto 34912-08-25 14:53 G 14472643.03 14472643.12 14472643.26 0.0075 0.0061

Saturn 34912-10-17 00:57 G 14472695.45 14472695.54 14472695.64 0.0269 0.0181

Pluto 34912-11-21 17:45 G 14472731.09 14472731.24 14472731.42 0.0075 0.0042

Saturn 34913-01-13 11:17 G 14472783.84 14472783.97 14472784.10 0.0269 0.0071

Pluto 34913-02-17 20:24 G 14472819.17 14472819.35 14472819.55 0.0075 0.0023

Saturn 34913-04-11 21:50 G 14472872.27 14472872.41 14472872.54 0.0268 0.0041

Pluto 34913-05-16 23:17 G 14472907.27 14472907.47 14472907.67 0.0074 0.0004

Venus 34913-06-07 18:14 G 14472929.20 14472929.26 14472929.32 0.3687 0.3278

Saturn 34913-07-09 08:09 G 14472960.73 14472960.84 14472960.95 0.0267 0.0151

Pluto 34913-08-13 01:41 G 14472995.39 14472995.57 14472995.78 0.0074 0.0016

Mars 34913-08-28 22:48 G 14473011.31 14473011.45 14473011.60 0.1656 0.0789

Saturn 34913-10-05 18:29 G 14473049.26 14473049.27 14473049.30 0.0266 0.0263

Pluto 34913-11-09 04:05 G 14473083.51 14473083.67 14473083.87 0.0074 0.0035

Pluto 34914-02-05 06:57 G 14473171.66 14473171.79 14473171.94 0.0074 0.0052

Pluto 34914-05-04 09:07 G 14473259.85 14473259.88 14473259.96 0.0074 0.0071

Jupiter 34916-01-22 10:33 G 14473887.76 14473887.94 14473888.13 0.0506 0.0048

Moon 34916-05-26 17:02 G 14474013.11 14474013.21 14474013.31 0.2650 0.0827

Earth 34916-05-26 17:45 G 14474013.13 14474013.24 14474013.34 0.2654 0.0807 *

Earth 34919-11-29 10:05 G 14475294.80 14475294.92 14475295.04 0.2677 0.1775

Moon 34919-11-29 11:45 G 14475294.88 14475294.99 14475295.10 0.2678 0.1883 *

Jupiter 34921-09-13 16:33 G 14475949.07 14475949.19 14475949.32 0.0520 0.0100

Jupiter 34921-12-11 22:05 G 14476038.39 14476038.42 14476038.46 0.0518 0.0495

Mars 34925-10-20 14:09 G 14477447.00 14477447.09 14477447.18 0.1871 0.1173

Jupiter 34927-11-10 07:41 G 14478197.67 14478197.82 14478197.99 0.0506 0.0247

Saturn 34928-10-30 14:53 G 14478552.97 14478553.12 14478553.29 0.0293 0.0145

Saturn 34929-01-27 15:21 G 14478641.96 14478642.14 14478642.32 0.0294 0.0059

Saturn 34929-04-26 15:21 G 14478731.06 14478731.14 14478731.23 0.0295 0.0261

Moon 34929-05-29 10:19 G 14478763.82 14478763.93 14478764.03 0.2655 0.0357

Earth 34929-05-29 10:48 G 14478763.85 14478763.95 14478764.06 0.2654 0.0506 *

Jupiter 34933-07-02 20:09 G 14480259.23 14480259.34 14480259.45 0.0521 0.0261

Jupiter 34933-09-30 01:41 G 14480348.47 14480348.57 14480348.67 0.0518 0.0332

Mars 34935-03-12 22:05 G 14480877.30 14480877.42 14480877.54 0.1879 0.0108

Jupiter 34939-08-29 05:02 G 14482507.63 14482507.71 14482507.80 0.0505 0.0444

Jupiter 34939-11-27 15:21 G 14482598.02 14482598.14 14482598.26 0.0507 0.0370

Saturn 34942-03-06 04:33 G 14483427.61 14483427.69 14483427.78 0.0270 0.0204

Moon 34942-06-01 03:36 G 14483514.58 14483514.65 14483514.73 0.2660 0.1805

Earth 34942-06-01 04:05 G 14483514.60 14483514.67 14483514.75 0.2654 0.1812 *

Saturn 34942-06-02 14:53 G 14483516.00 14483516.12 14483516.25 0.0269 0.0093

Saturn 34942-08-30 01:26 G 14483604.42 14483604.56 14483604.69 0.0268 0.0019

Saturn 34942-11-26 11:45 G 14483692.87 14483692.99 14483693.11 0.0267 0.0129

Saturn 34943-02-22 22:05 G 14483781.37 14483781.42 14483781.49 0.0267 0.0241

Uranus 34943-07-10 07:26 G 14483918.72 14483918.81 14483918.93 0.0135 0.0111

Uranus 34943-10-06 14:24 G 14484006.96 14484007.10 14484007.25 0.0135 0.0086

Mars 34943-10-07 21:21 G 14484008.25 14484008.39 14484008.54 0.1662 0.0748

Uranus 34944-01-02 21:07 G 14484095.22 14484095.38 14484095.56 0.0135 0.0061

Uranus 34944-03-31 04:05 G 14484183.49 14484183.67 14484183.85 0.0135 0.0036

Uranus 34944-06-27 10:48 G 14484271.76 14484271.95 14484272.13 0.0134 0.0012

Mars 34944-08-02 06:14 G 14484307.68 14484307.76 14484307.84 0.1886 0.1362

Uranus 34944-09-23 17:17 G 14484360.04 14484360.22 14484360.41 0.0134 0.0013

Uranus 34944-12-20 23:45 G 14484448.32 14484448.49 14484448.67 0.0134 0.0037

Uranus 34945-03-19 06:14 G 14484536.61 14484536.76 14484536.93 0.0134 0.0061

Jupiter 34945-04-21 00:29 G 14484569.44 14484569.52 14484569.59 0.0521 0.0411

Uranus 34945-06-15 12:57 G 14484624.90 14484625.04 14484625.18 0.0134 0.0085

Jupiter 34945-07-19 05:45 G 14484658.62 14484658.74 14484658.86 0.0519 0.0181

Uranus 34945-09-11 19:12 G 14484713.20 14484713.30 14484713.41 0.0134 0.0108

Uranus 34945-12-09 01:41 G 14484801.54 14484801.57 14484801.61 0.0134 0.0132

Moon 34949-05-25 05:02 G 14486064.63 14486064.71 14486064.79 0.2648 0.1831

Earth 34949-05-25 05:02 G 14486064.64 14486064.71 14486064.79 0.2654 0.1826 *

Venus 34949-05-30 04:05 G 14486069.63 14486069.67 14486069.72 0.3685 0.3310

Jupiter 34951-09-15 12:00 G 14486907.83 14486908.00 14486908.17 0.0506 0.0162

Earth 34952-11-26 08:24 G 14487345.70 14487345.85 14487346.01 0.2677 0.0714

Moon 34952-11-26 10:05 G 14487345.76 14487345.92 14487346.07 0.2681 0.0596 *

Mars 34953-02-26 23:45 G 14487438.34 14487438.49 14487438.64 0.1656 0.0577

Venus 34954-12-13 20:53 G 14488093.27 14488093.37 14488093.47 0.3684 0.1422

Jupiter 34957-05-07 10:05 G 14488968.79 14488968.92 14488969.05 0.0520 0.0034

Saturn 34958-03-19 14:38 G 14489284.98 14489285.11 14489285.25 0.0293 0.0193

Saturn 34958-06-16 15:07 G 14489373.95 14489374.13 14489374.31 0.0294 0.0011

Saturn 34958-09-13 15:21 G 14489463.01 14489463.14 14489463.26 0.0295 0.0214

Venus 34958-12-13 12:29 G 14489553.99 14489554.02 14489554.05 0.3686 0.3585

Venus 34960-06-28 13:41 G 14490116.96 14490117.07 14490117.17 0.3684 0.0540

Moon 34962-05-27 21:50 G 14490815.30 14490815.41 14490815.51 0.2650 0.0656

Earth 34962-05-27 22:19 G 14490815.33 14490815.43 14490815.54 0.2654 0.0535 *

Jupiter 34963-07-04 08:38 G 14491217.68 14491217.86 14491218.04 0.0506 0.0044

Venus 34964-06-28 15:50 G 14491578.02 14491578.16 14491578.30 0.3687 0.0633

Mars 34965-04-20 13:55 G 14491874.00 14491874.08 14491874.17 0.1871 0.1305

Earth 34965-11-29 16:48 G 14492097.13 14492097.20 14492097.27 0.2677 0.2349

Moon 34965-11-29 18:29 G 14492097.26 14492097.27 14492097.28 0.2676 0.2664 *

Venus 34966-01-12 06:43 G 14492140.70 14492140.78 14492140.85 0.3683 0.2539

Jupiter 34969-02-23 14:38 G 14493278.99 14493279.11 14493279.24 0.0520 0.0109

Jupiter 34969-05-23 20:09 G 14493368.30 14493368.34 14493368.39 0.0518 0.0488

Saturn 34971-07-24 07:26 G 14494159.75 14494159.81 14494159.88 0.0270 0.0233

Saturn 34971-10-20 17:45 G 14494248.13 14494248.24 14494248.36 0.0269 0.0122

Neptune 34971-12-08 20:38 G 14494297.36 14494297.36 14494297.42 0.0089 0.0088

Saturn 34972-01-17 04:19 G 14494336.54 14494336.68 14494336.81 0.0268 0.0014

Neptune 34972-03-06 00:29 G 14494385.44 14494385.52 14494385.62 0.0089 0.0077

Saturn 34972-04-14 14:38 G 14494424.98 14494425.11 14494425.23 0.0267 0.0100

Neptune 34972-06-02 04:05 G 14494473.55 14494473.67 14494473.80 0.0089 0.0066

Saturn 34972-07-12 00:57 G 14494513.47 14494513.54 14494513.63 0.0267 0.0211

Neptune 34972-08-29 07:26 G 14494561.67 14494561.81 14494561.97 0.0089 0.0056

Neptune 34972-11-25 11:02 G 14494649.80 14494649.96 14494650.13 0.0089 0.0045

Neptune 34973-02-21 14:24 G 14494737.93 14494738.10 14494738.28 0.0089 0.0035

Neptune 34973-05-20 18:00 G 14494826.07 14494826.25 14494826.43 0.0089 0.0024

Neptune 34973-08-16 21:21 G 14494914.21 14494914.39 14494914.58 0.0089 0.0014

Neptune 34973-11-13 00:43 G 14495002.35 14495002.53 14495002.73 0.0089 0.0004

Neptune 34974-02-09 04:19 G 14495090.49 14495090.68 14495090.87 0.0089 0.0007

Neptune 34974-05-08 07:26 G 14495178.63 14495178.81 14495179.00 0.0089 0.0018

Neptune 34974-08-04 10:48 G 14495266.78 14495266.95 14495267.14 0.0089 0.0028

Mars 34974-09-10 22:19 G 14495304.31 14495304.43 14495304.54 0.1879 0.0080

Neptune 34974-10-31 14:24 G 14495354.93 14495355.10 14495355.27 0.0089 0.0038

Neptune 34975-01-27 17:31 G 14495443.08 14495443.23 14495443.40 0.0089 0.0049

Jupiter 34975-04-22 05:02 G 14495527.55 14495527.71 14495527.86 0.0506 0.0257

Neptune 34975-04-25 20:53 G 14495531.24 14495531.37 14495531.52 0.0089 0.0059

Moon 34975-05-30 14:53 G 14495566.02 14495566.12 14495566.23 0.2657 0.0744

Earth 34975-05-30 15:36 G 14495566.05 14495566.15 14495566.26 0.2654 0.0770 *

Neptune 34975-07-23 00:14 G 14495619.40 14495619.51 14495619.64 0.0089 0.0069

Neptune 34975-10-19 03:50 G 14495707.58 14495707.66 14495707.74 0.0089 0.0079

Jupiter 34980-12-12 19:12 G 14497589.19 14497589.30 14497589.41 0.0521 0.0252

Jupiter 34981-03-12 00:29 G 14497678.43 14497678.52 14497678.62 0.0519 0.0341

Mars 34983-04-07 22:05 G 14498435.28 14498435.42 14498435.55 0.1662 0.0940

Mars 34984-02-01 06:14 G 14498734.67 14498734.76 14498734.85 0.1885 0.1210

Uranus 34986-06-29 09:21 G 14499613.83 14499613.89 14499613.95 0.0143 0.0127

Uranus 34986-09-25 12:57 G 14499701.95 14499702.04 14499702.13 0.0144 0.0106

Uranus 34986-12-22 16:48 G 14499790.09 14499790.20 14499790.30 0.0144 0.0085

Jupiter 34987-02-08 02:09 G 14499837.51 14499837.59 14499837.67 0.0505 0.0455

Uranus 34987-03-20 20:24 G 14499878.23 14499878.35 14499878.47 0.0144 0.0064

Jupiter 34987-05-09 12:29 G 14499927.89 14499928.02 14499928.15 0.0507 0.0359

Uranus 34987-06-17 00:00 G 14499966.38 14499966.50 14499966.64 0.0144 0.0043

Saturn 34987-08-06 12:43 G 14500016.94 14500017.03 14500017.13 0.0292 0.0250

Uranus 34987-09-13 03:50 G 14500054.53 14500054.66 14500054.80 0.0144 0.0021

Saturn 34987-11-03 13:26 G 14500105.88 14500106.06 14500106.24 0.0293 0.0046

Uranus 34987-12-10 07:41 G 14500142.69 14500142.82 14500142.96 0.0144 0.0004

Saturn 34988-01-31 13:41 G 14500194.92 14500195.07 14500195.22 0.0294 0.0158

Uranus 34988-03-07 11:31 G 14500230.85 14500230.98 14500231.12 0.0144 0.0023

Moon 34988-06-01 08:38 G 14500316.79 14500316.86 14500316.93 0.2660 0.1978

Earth 34988-06-01 08:53 G 14500316.81 14500316.87 14500316.94 0.2654 0.2087 *

Uranus 34988-06-03 15:21 G 14500319.01 14500319.14 14500319.27 0.0144 0.0045

Uranus 34988-08-30 19:12 G 14500407.18 14500407.30 14500407.43 0.0144 0.0067

Uranus 34988-11-26 23:02 G 14500495.36 14500495.46 14500495.57 0.0144 0.0089

Uranus 34989-02-23 03:07 G 14500583.55 14500583.63 14500583.72 0.0144 0.0111

Uranus 34989-05-22 06:57 G 14500671.75 14500671.79 14500671.84 0.0144 0.0134

Mars 34992-08-28 00:14 G 14501865.35 14501865.51 14501865.67 0.1656 0.0380

Jupiter 34992-09-30 22:48 G 14501899.38 14501899.45 14501899.53 0.0521 0.0414

Jupiter 34992-12-29 04:05 G 14501988.55 14501988.67 14501988.79 0.0519 0.0178

Moon 34995-05-26 09:36 G 14502866.81 14502866.90 14502866.99 0.2649 0.1585

Earth 34995-05-26 09:50 G 14502866.83 14502866.91 14502867.00 0.2654 0.1560 *

Earth 34998-11-27 15:21 G 14504147.98 14504148.14 14504148.30 0.2677 0.0152

Moon 34998-11-27 16:48 G 14504148.04 14504148.20 14504148.36 0.2681 0.0115 *

Jupiter 34999-02-25 10:05 G 14504237.75 14504237.92 14504238.09 0.0507 0.0166

Saturn 35000-12-11 11:02 G 14504891.92 14504891.96 14504892.00 0.0270 0.0257

36TH MILLENNIUM CE

This is a list of transits of Mercury in the 36th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	**35001-03-09 21:21**	**G**	**14504980.28**	**14504980.39**	**14504980.50**	**0.0269**	**0.0147**	
Saturn	**35001-06-06 07:41**	**G**	**14505068.69**	**14505068.82**	**14505068.95**	**0.0268**	**0.0036**	
Saturn	**35001-09-02 18:00**	**G**	**14505157.12**	**14505157.25**	**14505157.38**	**0.0268**	**0.0075**	
Saturn	**35001-11-30 04:33**	**G**	**14505245.59**	**14505245.69**	**14505245.78**	**0.0267**	**0.0186**	
Jupiter	**35004-10-18 08:09**	**G**	**14506298.72**	**14506298.84**	**14506298.97**	**0.0520**	**0.0033**	
Mars	**35004-10-20 14:09**	**G**	**14506301.02**	**14506301.09**	**14506301.16**	**0.1871**	**0.1470**	
Venus	**35006-01-05 01:55**	**G**	**14506742.50**	**14506742.58**	**14506742.65**	**0.3685**	**0.2641**	
Moon	**35008-05-29 02:38**	**G**	**14507617.50**	**14507617.61**	**14507617.71**	**0.2651**	**0.0343**	
Earth	**35008-05-29 03:07**	**G**	**14507617.52**	**14507617.63**	**14507617.74**	**0.2654**	**0.0267**	*
Jupiter	**35010-12-15 06:43**	**G**	**14508547.60**	**14508547.78**	**14508547.96**	**0.0506**	**0.0042**	
Venus	**35011-07-21 18:29**	**G**	**14508766.17**	**14508766.27**	**14508766.38**	**0.3684**	**0.0737**	
Mars	**35014-03-12 22:05**	**G**	**14509731.31**	**14509731.42**	**14509731.54**	**0.1878**	**0.0216**	
Venus	**35015-07-21 13:12**	**G**	**14510226.94**	**14510227.05**	**14510227.16**	**0.3686**	**0.2142**	
Jupiter	**35016-08-06 12:43**	**G**	**14510608.90**	**14510609.03**	**14510609.15**	**0.0521**	**0.0119**	
Jupiter	**35016-11-03 18:14**	**G**	**14510698.21**	**14510698.26**	**14510698.31**	**0.0518**	**0.0477**	
Venus	**35017-02-03 11:31**	**G**	**14510789.88**	**14510789.98**	**14510790.08**	**0.3684**	**0.1247**	
Saturn	**35017-03-23 12:29**	**G**	**14510837.85**	**14510838.02**	**14510838.20**	**0.0294**	**0.0099**	
Saturn	**35017-06-20 12:57**	**G**	**14510926.87**	**14510927.04**	**14510927.21**	**0.0295**	**0.0106**	
Venus	**35021-02-03 16:19**	**G**	**14512251.07**	**14512251.18**	**14512251.30**	**0.3687**	**0.2001**	
Moon	**35021-05-31 19:41**	**G**	**14512368.22**	**14512368.32**	**14512368.43**	**0.2658**	**0.0907**	
Earth	**35021-05-31 20:24**	**G**	**14512368.25**	**14512368.35**	**14512368.45**	**0.2654**	**0.1038**	*
Venus	**35022-08-20 04:33**	**G**	**14512813.64**	**14512813.69**	**14512813.74**	**0.3683**	**0.3264**	

Jupiter 35022-10-03 03:21 G 14512857.49 14512857.64 14512857.80 0.0505 0.0248

Mars 35022-10-07 22:33 G 14512862.33 14512862.44 14512862.56 0.1662 0.1145

Mars 35023-08-03 06:14 G 14513161.67 14513161.76 14513161.86 0.1886 0.1066

Uranus 35027-05-04 06:57 G 14514531.76 14514531.79 14514531.84 0.0135 0.0132

Uranus 35027-07-31 13:55 G 14514619.97 14514620.08 14514620.20 0.0135 0.0107

Uranus 35027-10-27 20:38 G 14514708.22 14514708.36 14514708.52 0.0135 0.0082

Uranus 35028-01-24 03:36 G 14514796.48 14514796.65 14514796.82 0.0135 0.0057

Uranus 35028-04-21 10:19 G 14514884.75 14514884.93 14514885.11 0.0135 0.0032

Earth 35028-05-24 21:21 G 14514918.37 14514918.39 14514918.42 0.2654 0.2578

Moon 35028-05-24 21:36 G 14514918.37 14514918.40 14514918.43 0.2648 0.2500 *

Jupiter 35028-05-25 17:17 G 14514919.11 14514919.22 14514919.34 0.0521 0.0259

Uranus 35028-07-18 17:02 G 14514973.02 14514973.21 14514973.40 0.0135 0.0008

Jupiter 35028-08-22 22:48 G 14515008.35 14515008.45 14515008.55 0.0519 0.0336

Uranus 35028-10-14 23:45 G 14515061.30 14515061.49 14515061.67 0.0134 0.0017

Uranus 35029-01-11 06:14 G 14515149.59 14515149.76 14515149.94 0.0134 0.0041

Uranus 35029-04-09 12:43 G 14515237.87 14515238.03 14515238.19 0.0134 0.0065

Uranus 35029-07-06 19:12 G 14515326.17 14515326.30 14515326.44 0.0134 0.0089

Uranus 35029-10-03 01:26 G 14515414.47 14515414.56 14515414.67 0.0134 0.0112

Saturn 35030-07-28 00:00 G 14515712.40 14515712.50 14515712.60 0.0269 0.0178

Saturn 35030-10-24 10:19 G 14515800.80 14515800.93 14515801.06 0.0268 0.0068

Saturn 35031-01-20 20:38 G 14515889.23 14515889.36 14515889.49 0.0268 0.0043

Saturn 35031-04-19 06:57 G 14515977.68 14515977.79 14515977.90 0.0267 0.0154

Saturn 35031-07-16 17:31 G 14516066.22 14516066.23 14516066.24 0.0266 0.0264

Earth 35031-11-26 13:26 G 14516199.06 14516199.06 14516199.06 0.2677 0.2673

Moon 35031-11-26 14:38 G 14516199.07 14516199.11 14516199.14 0.2683 0.2604

Mars 35032-02-28 00:43 G 14516292.37 14516292.53 14516292.69 0.1657 0.0191

Moon 35034-06-03 13:26 G 14517119.02 14517119.06 14517119.11 0.2660 0.2382

Earth 35034-06-03 13:41 G 14517119.03 14517119.07 14517119.12 0.2654 0.2356 *

Jupiter 35034-07-21 23:45 G 14517167.42 14517167.49 14517167.57 0.0505 0.0459

Jupiter 35034-10-20 10:05 G 14517257.79 14517257.92 14517258.05 0.0507 0.0355

Jupiter 35040-03-13 22:05 G 14519229.34 14519229.42 14519229.50 0.0522 0.0402

Jupiter 35040-06-11 03:21 G 14519318.52 14519318.64 14519318.76 0.0519 0.0192

Moon 35041-05-27 14:09 G 14519669.00 14519669.09 14519669.19 0.2648 0.1380

Earth 35041-05-27 14:38 G 14519669.02 14519669.11 14519669.20 0.2654 0.1296 *

Mars 35041-07-20 03:07 G 14519722.56 14519722.63 14519722.69 0.1651 0.1507

Mars 35044-04-20 14:09 G 14520728.04 14520728.09 14520728.15 0.1871 0.1633

Earth 35044-11-28 22:05 G 14520950.26 14520950.42 14520950.58 0.2677 0.0449

Moon 35044-11-28 23:45 G 14520950.33 14520950.49 14520950.64 0.2680 0.0641 *

Jupiter 35046-08-08 07:41 G 14521567.65 14521567.82 14521567.99 0.0507 0.0161

Saturn 35046-08-10 09:36 G 14521569.75 14521569.90 14521570.06 0.0293 0.0165

Saturn 35046-11-07 10:05 G 14521658.74 14521658.92 14521659.10 0.0294 0.0040

Saturn 35047-02-04 10:19 G 14521747.83 14521747.93 14521748.03 0.0295 0.0243

Jupiter 35052-03-30 06:57 G 14523628.66 14523628.79 14523628.91 0.0520 0.0033

Neptune 35052-06-26 03:50 G 14523716.62 14523716.66 14523716.71 0.0089 0.0083

Neptune 35052-09-22 05:02 G 14523804.65 14523804.71 14523804.79 0.0089 0.0076

Neptune 35052-12-19 06:29 G 14523892.69 14523892.77 14523892.86 0.0089 0.0068

Neptune 35053-03-17 07:41 G 14523980.74 14523980.82 14523980.93 0.0089 0.0062

Neptune 35053-06-13 09:21 G 14524068.78 14524068.89 14524069.00 0.0089 0.0054

Neptune 35053-09-09 10:33 G 14524156.83 14524156.94 14524157.06 0.0088 0.0047

Mars 35053-09-10 22:19 G 14524158.31 14524158.43 14524158.54 0.1878 0.0365

Neptune 35053-12-06 12:00 G 14524244.88 14524245.00 14524245.12 0.0088 0.0039

Neptune 35054-03-04 13:12 G 14524332.93 14524333.05 14524333.18 0.0088 0.0032

Moon 35054-05-30 07:12 G 14524419.69 14524419.80 14524419.91 0.2653 0.0094

Earth 35054-05-30 07:55 G 14524419.72 14524419.83 14524419.94 0.2654 0.0066 *

Neptune 35054-05-31 14:38 G 14524420.99 14524421.11 14524421.24 0.0088 0.0025

Neptune 35054-08-27 16:05 G 14524509.04 14524509.17 14524509.30 0.0088 0.0017

Neptune 35054-11-23 17:31 G 14524597.09 14524597.23 14524597.36 0.0088 0.0010

Neptune 35055-02-19 18:43 G 14524685.15 14524685.28 14524685.42 0.0088 0.0004

Neptune 35055-05-18 20:09 G 14524773.21 14524773.34 14524773.48 0.0088 0.0005

Neptune 35055-08-14 21:36 G 14524861.26 14524861.40 14524861.53 0.0088 0.0012

Neptune 35055-11-10 22:48 G 14524949.32 14524949.45 14524949.59 0.0088 0.0020

Neptune 35056-02-07 00:14 G 14525037.38 14525037.51 14525037.64 0.0088 0.0027

Neptune 35056-05-05 01:41 G 14525125.45 14525125.57 14525125.70 0.0088 0.0034

Neptune 35056-08-01 02:53 G 14525213.51 14525213.62 14525213.75 0.0088 0.0042

Neptune 35056-10-28 04:19 G 14525301.57 14525301.68 14525301.80 0.0088 0.0049

Neptune 35057-01-24 05:31 G 14525389.64 14525389.73 14525389.85 0.0088 0.0057

Neptune 35057-04-22 07:12 G 14525477.71 14525477.80 14525477.90 0.0088 0.0063

Neptune 35057-07-19 08:38 G 14525565.78 14525565.86 14525565.94 0.0088 0.0071

Neptune 35057-10-15 09:50 G 14525653.86 14525653.91 14525653.98 0.0088 0.0078

Neptune 35058-01-11 11:17 G 14525741.95 14525741.97 14525742.01 0.0088 0.0086

Jupiter 35058-05-27 05:17 G 14525877.54 14525877.72 14525877.91 0.0506 0.0034

Saturn 35059-12-15 03:07 G 14526444.55 14526444.63 14526444.71 0.0270 0.0206

Saturn 35060-03-12 13:26 G 14526532.93 14526533.06 14526533.18 0.0269 0.0095

Saturn 35060-06-08 23:45 G 14526621.36 14526621.49 14526621.62 0.0268 0.0016

Saturn 35060-09-05 10:05 G 14526709.80 14526709.92 14526710.04 0.0267 0.0127

Saturn 35060-12-02 20:24 G 14526798.30 14526798.35 14526798.42 0.0266 0.0238

Mars 35062-04-07 23:17 G 14527289.37 14527289.47 14527289.56 0.1663 0.1339

Venus 35062-08-11 23:31 G 14527415.39 14527415.48 14527415.57 0.3685 0.1970

Mars 35063-02-01 06:14 G 14527588.66 14527588.76 14527588.86 0.1885 0.0911

Jupiter 35064-01-17 11:02 G 14527938.84 14527938.96 14527939.09 0.0520 0.0120

Jupiter 35064-04-15 16:33 G 14528028.14 14528028.19 14528028.24 0.0518 0.0475

Moon 35067-06-02 00:29 G 14529170.43 14529170.52 14529170.62 0.2658 0.1260

Earth 35067-06-02 01:12 G 14529170.45 14529170.55 14529170.64 0.2654 0.1308 *

Venus 35068-02-25 16:19 G 14529439.07 14529439.18 14529439.29 0.3684 0.0053

Jupiter 35070-03-15 02:09 G 14530187.43 14530187.59 14530187.75 0.0505 0.0237

Uranus 35070-04-23 12:43 G 14530227.03 14530227.03 14530227.06 0.0143 0.0143

Uranus 35070-07-20 16:33 G 14530315.13 14530315.19 14530315.27 0.0143 0.0121

Uranus 35070-10-16 20:09 G 14530403.25 14530403.34 14530403.44 0.0144 0.0101

Uranus 35071-01-13 00:00 G 14530491.39 14530491.50 14530491.62 0.0144 0.0079

Uranus 35071-04-11 03:50 G 14530579.54 14530579.66 14530579.78 0.0144 0.0058

Uranus 35071-07-08 07:26 G 14530667.68 14530667.81 14530667.95 0.0144 0.0037

Mars 35071-08-29 01:26 G 14530719.40 14530719.56 14530719.72 0.1657 0.0019

Uranus 35071-10-04 11:17 G 14530755.84 14530755.97 14530756.11 0.0144 0.0015

Uranus 35071-12-31 15:07 G 14530843.99 14530844.13 14530844.27 0.0144 0.0007

Venus 35072-02-25 13:55 G 14530899.94 14530900.08 14530900.21 0.3686 0.0737

Uranus 35072-03-28 18:57 G 14530932.16 14530932.29 14530932.42 0.0144 0.0029

Pluto 35072-06-16 12:00 G 14531011.96 14531012.00 14531012.07 0.0069 0.0063

Uranus 35072-06-24 22:48 G 14531020.32 14531020.45 14531020.58 0.0144 0.0051

Pluto 35072-09-12 12:29 G 14531099.95 14531100.02 14531100.12 0.0069 0.0053

Uranus 35072-09-21 02:38 G 14531108.49 14531108.61 14531108.73 0.0144 0.0073

Pluto 35072-12-09 13:26 G 14531187.96 14531188.06 14531188.16 0.0070 0.0043

Uranus 35072-12-18 06:29 G 14531196.67 14531196.77 14531196.88 0.0144 0.0095

Pluto 35073-03-07 13:55 G 14531275.97 14531276.08 14531276.19 0.0070 0.0033

Uranus 35073-03-16 10:33 G 14531284.86 14531284.94 14531285.02 0.0144 0.0118

Pluto 35073-06-03 14:24 G 14531363.98 14531364.10 14531364.23 0.0070 0.0023

Uranus 35073-06-12 14:24 G 14531373.07 14531373.10 14531373.13 0.0144 0.0140

Pluto 35073-08-30 14:53 G 14531452.00 14531452.12 14531452.26 0.0070 0.0013

Venus 35073-09-10 09:21 G 14531462.80 14531462.89 14531462.98 0.3683 0.1958

Pluto 35073-11-26 15:36 G 14531540.02 14531540.15 14531540.28 0.0070 0.0002

Pluto 35074-02-22 16:05 G 14531628.04 14531628.17 14531628.30 0.0070 0.0008

Pluto 35074-05-21 16:48 G 14531716.07 14531716.20 14531716.32 0.0070 0.0018

Earth 35074-05-26 02:09 G 14531720.54 14531720.59 14531720.64 0.2654 0.2313

Moon 35074-05-26 02:09 G 14531720.55 14531720.59 14531720.64 0.2648 0.2353 *

Pluto 35074-08-17 17:17 G 14531804.10 14531804.22 14531804.34 0.0070 0.0029

Pluto 35074-11-13 17:45 G 14531892.14 14531892.24 14531892.35 0.0070 0.0039

Pluto 35075-02-09 18:29 G 14531980.18 14531980.27 14531980.36 0.0071 0.0050

Pluto 35075-05-08 18:43 G 14532068.23 14532068.28 14532068.36 0.0071 0.0061

Jupiter 35075-11-05 15:36 G 14532249.04 14532249.15 14532249.26 0.0521 0.0266

Saturn 35075-12-28 07:55 G 14532301.72 14532301.83 14532301.95 0.0293 0.0225

Jupiter 35076-02-02 20:53 G 14532338.27 14532338.37 14532338.47 0.0519 0.0329

Saturn 35076-03-26 08:38 G 14532390.67 14532390.86 14532391.04 0.0294 0.0020

Saturn 35076-06-23 08:53 G 14532479.73 14532479.87 14532480.01 0.0295 0.0185

Venus 35077-09-10 16:48 G 14532924.14 14532924.20 14532924.26 0.3687 0.3339

Earth 35077-11-26 20:24 G 14533001.25 14533001.35 14533001.45 0.2677 0.2080

Moon 35077-11-26 21:21 G 14533001.28 14533001.39 14533001.51 0.2683 0.1854 *

Moon 35080-06-03 18:29 G 14533921.25 14533921.27 14533921.29 0.2661 0.2576

Earth 35080-06-03 18:29 G 14533921.26 14533921.27 14533921.28 0.2654 0.2627 *

Mars 35081-01-18 03:36 G 14534149.55 14534149.65 14534149.75 0.1651 0.1307

Jupiter 35081-12-31 22:48 G 14534497.36 14534497.45 14534497.54 0.0505 0.0443

Jupiter 35082-04-01 08:53 G 14534587.75 14534587.87 14534588.00 0.0507 0.0370

Mars 35083-10-20 14:09 G 14535155.05 14535155.09 14535155.12 0.1871 0.1776

Moon 35087-05-28 18:57 G 14536471.19 14536471.29 14536471.39 0.2649 0.1046

Earth 35087-05-28 19:26 G 14536471.21 14536471.31 14536471.41 0.2654 0.1031 *

Jupiter 35087-08-24 20:24 G 14536559.27 14536559.35 14536559.43 0.0522 0.0405

Jupiter 35087-11-22 01:41 G 14536648.45 14536648.57 14536648.69 0.0520 0.0189

Saturn 35089-05-03 05:31 G 14537176.67 14537176.73 14537176.79 0.0269 0.0239

Saturn 35089-07-30 15:50 G 14537265.04 14537265.16 14537265.28 0.0269 0.0129

Saturn 35089-10-27 02:09 G 14537353.46 14537353.59 14537353.72 0.0268 0.0018

Saturn 35090-01-23 12:29 G 14537441.90 14537442.02 14537442.15 0.0267 0.0093

Saturn 35090-04-21 22:48 G 14537530.37 14537530.45 14537530.54 0.0266 0.0204

Earth 35090-11-30 04:48 G 14537752.55 14537752.70 14537752.85 0.2677 0.1023

Moon 35090-11-30 06:43 G 14537752.63 14537752.78 14537752.92 0.2678 0.1211 *

Mars 35093-03-11 22:19 G 14538585.31 14538585.43 14538585.54 0.1878 0.0520

Jupiter 35094-01-18 05:45 G 14538897.57 14538897.74 14538897.91 0.0506 0.0163

Jupiter 35099-09-10 06:14 G 14540958.63 14540958.76 14540958.89 0.0520 0.0047

Moon 35100-05-31 12:00 G 14541221.89 14541222.00 14541222.11 0.2655 0.0157

Earth 35100-05-31 12:43 G 14541221.92 14541222.03 14541222.13 0.2654 0.0284 *

Mars 35101-10-07 23:45 G 14541716.43 14541716.49 14541716.55 0.1663 0.1532

Mars 35102-08-03 06:29 G 14542015.66 14542015.77 14542015.87 0.1885 0.0751

Saturn 35105-08-14 04:48 G 14543122.53 14543122.70 14543122.88 0.0293 0.0093

Jupiter 35105-11-07 03:21 G 14543207.46 14543207.64 14543207.83 0.0506 0.0031

Saturn 35105-11-11 05:17 G 14543211.55 14543211.72 14543211.89 0.0294 0.0112

Mars 35111-02-28 02:09 G 14545146.43 14545146.59 14545146.75 0.1657 0.0220

Uranus 35111-05-25 13:26 G 14545233.01 14545233.06 14545233.13 0.0135 0.0128

Jupiter 35111-06-30 09:50 G 14545268.79 14545268.91 14545269.04 0.0520 0.0114

Uranus 35111-08-21 20:09 G 14545321.24 14545321.34 14545321.48 0.0135 0.0103

Jupiter 35111-09-27 15:21 G 14545358.09 14545358.14 14545358.19 0.0518 0.0480

Uranus 35111-11-18 03:07 G 14545409.49 14545409.63 14545409.79 0.0135 0.0078

Uranus 35112-02-14 10:05 G 14545497.75 14545497.92 14545498.09 0.0135 0.0053

Uranus 35112-05-12 16:48 G 14545586.02 14545586.20 14545586.39 0.0135 0.0028

Uranus 35112-08-08 23:31 G 14545674.30 14545674.48 14545674.67 0.0134 0.0003

Uranus 35112-11-05 06:00 G 14545762.57 14545762.75 14545762.94 0.0134 0.0022

Uranus 35113-02-01 12:43 G 14545850.86 14545851.03 14545851.21 0.0134 0.0045

Uranus 35113-04-30 19:12 G 14545939.15 14545939.30 14545939.46 0.0134 0.0069

Moon 35113-06-03 05:17 G 14545972.64 14545972.72 14545972.81 0.2658 0.1482

Earth 35113-06-03 06:00 G 14545972.66 14545972.75 14545972.83 0.2654 0.1575 *

Uranus 35113-07-28 01:26 G 14546027.44 14546027.56 14546027.71 0.0134 0.0094

Venus 35113-09-03 04:48 G 14546064.64 14546064.70 14546064.75 0.3685 0.3190

Uranus 35113-10-24 08:09 G 14546115.76 14546115.84 14546115.93 0.0134 0.0117

Jupiter 35117-08-26 00:57 G 14547517.38 14547517.54 14547517.71 0.0506 0.0222

Saturn 35118-12-18 18:43 G 14547997.17 14547997.28 14547997.38 0.0269 0.0161

Saturn 35119-03-17 05:02 G 14548085.58 14548085.71 14548085.84 0.0268 0.0050

Venus 35119-03-19 21:21 G 14548088.29 14548088.39 14548088.49 0.3685 0.1294

Saturn 35119-06-13 15:21 G 14548174.01 14548174.14 14548174.27 0.0268 0.0062

Saturn 35119-09-10 01:41 G 14548262.47 14548262.57 14548262.67 0.0267 0.0173

Moon 35120-05-27 06:43 G 14548522.71 14548522.78 14548522.85 0.2647 0.2007

Earth 35120-05-27 06:57 G 14548522.72 14548522.79 14548522.86 0.2654 0.2053 *

Mars 35120-07-20 04:19 G 14548576.56 14548576.68 14548576.80 0.1651 0.1109

Venus 35123-03-19 10:48 G 14549548.93 14549548.95 14549548.98 0.3686 0.3600

Jupiter 35123-04-18 14:09 G 14549578.98 14549579.09 14549579.20 0.0521 0.0262

Jupiter 35123-07-16 19:41 G 14549668.22 14549668.32 14549668.41 0.0519 0.0332

Earth 35123-11-29 03:07 G 14549803.50 14549803.63 14549803.77 0.2677 0.1487

Moon 35123-11-29 04:33 G 14549803.55 14549803.69 14549803.82 0.2682 0.1428 *

Venus 35124-10-02 14:09 G 14550111.98 14550112.09 14550112.20 0.3684 0.0667

Venus 35128-10-02 14:24 G 14551572.96 14551573.10 14551573.24 0.3687 0.0653

Jupiter 35129-06-13 21:50 G 14551827.32 14551827.41 14551827.51 0.0505 0.0426

Jupiter 35129-09-12 08:09 G 14551917.72 14551917.84 14551917.96 0.0507 0.0387

Venus 35130-04-18 06:57 G 14552135.72 14552135.79 14552135.87 0.3683 0.2666

Mars 35132-09-10 22:19 G 14553012.32 14553012.43 14553012.54 0.1878 0.0672

Moon 35133-05-29 23:45 G 14553273.38 14553273.49 14553273.59 0.2650 0.0889

Earth 35133-05-30 00:00 G 14553273.40 14553273.50 14553273.61 0.2654 0.0774 *

Saturn 35135-01-01 02:24 G 14553854.45 14553854.60 14553854.76 0.0293 0.0158

Jupiter 35135-02-04 18:43 G 14553889.20 14553889.28 14553889.36 0.0522 0.0407

Saturn 35135-03-31 02:53 G 14553943.44 14553943.62 14553943.80 0.0294 0.0048

Jupiter 35135-05-05 00:00 G 14553978.38 14553978.50 14553978.62 0.0520 0.0186

Saturn 35135-06-28 02:53 G 14554032.54 14554032.62 14554032.73 0.0295 0.0253

Neptune 35136-09-05 19:55 G 14554468.28 14554468.33 14554468.42 0.0089 0.0082

Earth 35136-12-01 11:45 G 14554554.86 14554554.99 14554555.12 0.2677 0.1604

Moon 35136-12-01 13:26 G 14554554.95 14554555.06 14554555.18 0.2677 0.1901 *

Neptune 35136-12-02 23:45 G 14554556.38 14554556.49 14554556.61 0.0089 0.0071

Neptune 35137-03-01 02:53 G 14554644.50 14554644.62 14554644.78 0.0089 0.0061

Neptune 35137-05-28 06:43 G 14554732.63 14554732.78 14554732.94 0.0089 0.0050

Neptune 35137-08-24 10:05 G 14554820.76 14554820.92 14554821.10 0.0089 0.0040

Neptune 35137-11-20 13:41 G 14554908.89 14554909.07 14554909.25 0.0089 0.0029

Neptune 35138-02-16 17:02 G 14554997.03 14554997.21 14554997.40 0.0089 0.0019

Neptune 35138-05-15 20:38 G 14555085.17 14555085.36 14555085.55 0.0089 0.0008

Neptune 35138-08-12 00:00 G 14555173.31 14555173.50 14555173.69 0.0089 0.0003

Neptune 35138-11-08 03:21 G 14555261.46 14555261.64 14555261.83 0.0089 0.0013

Neptune 35139-02-04 06:43 G 14555349.60 14555349.78 14555349.97 0.0089 0.0024

Neptune 35139-05-03 10:05 G 14555437.75 14555437.92 14555438.10 0.0089 0.0034

Neptune 35139-07-30 13:26 G 14555525.91 14555526.06 14555526.23 0.0089 0.0044

Neptune 35139-10-26 16:33 G 14555614.06 14555614.19 14555614.36 0.0089 0.0055

Neptune 35140-01-22 19:55 G 14555702.22 14555702.33 14555702.48 0.0089 0.0065

Neptune 35140-04-19 23:31 G 14555790.39 14555790.48 14555790.59 0.0089 0.0075

Neptune 35140-07-17 02:53 G 14555878.58 14555878.62 14555878.68 0.0089 0.0085

Jupiter 35141-07-01 05:17 G 14556227.55 14556227.72 14556227.89 0.0506 0.0185

Mars 35142-02-01 06:14 G 14556442.65 14556442.76 14556442.87 0.1885 0.0613

Moon 35146-06-01 16:33 G 14558024.09 14558024.19 14558024.30 0.2655 0.0478

Earth 35146-06-01 17:17 G 14558024.12 14558024.22 14558024.33 0.2654 0.0539 *

Jupiter 35147-02-21 04:48 G 14558288.57 14558288.70 14558288.83 0.0520 0.0048

Saturn 35148-05-06 20:53 G 14558729.28 14558729.37 14558729.46 0.0269 0.0196

Saturn 35148-08-03 07:12 G 14558817.67 14558817.80 14558817.93 0.0268 0.0085

Saturn 35148-10-30 17:31 G 14558906.10 14558906.23 14558906.36 0.0267 0.0026

Saturn 35149-01-27 03:50 G 14558994.55 14558994.66 14558994.78 0.0267 0.0137

Saturn 35149-04-25 14:09 G 14559083.05 14559083.09 14559083.14 0.0266 0.0247

Mars 35150-08-29 02:38 G 14559573.45 14559573.61 14559573.76 0.1657 0.0405

Mars 35151-06-24 14:24 G 14559873.09 14559873.10 14559873.12 0.1892 0.1875

Jupiter 35153-04-19 01:55 G 14560537.40 14560537.58 14560537.76 0.0506 0.0021

Uranus 35154-05-14 20:24 G 14560928.32 14560928.35 14560928.39 0.0143 0.0136

Uranus 35154-08-11 00:00 G 14561016.43 14561016.50 14561016.58 0.0143 0.0116

Uranus 35154-11-07 03:36 G 14561104.56 14561104.65 14561104.76 0.0144 0.0095

Uranus 35155-02-03 07:26 G 14561192.70 14561192.81 14561192.93 0.0144 0.0073

Uranus 35155-05-02 11:17 G 14561280.84 14561280.97 14561281.10 0.0144 0.0052

Uranus 35155-07-29 14:53 G 14561369.00 14561369.12 14561369.26 0.0144 0.0031

Uranus 35155-10-25 18:43 G 14561457.15 14561457.28 14561457.42 0.0144 0.0010

Uranus 35156-01-21 22:33 G 14561545.31 14561545.44 14561545.58 0.0144 0.0014

Uranus 35156-04-19 02:24 G 14561633.47 14561633.60 14561633.73 0.0144 0.0035

Uranus 35156-07-16 06:14 G 14561721.64 14561721.76 14561721.89 0.0144 0.0057

Uranus 35156-10-12 10:05 G 14561809.81 14561809.92 14561810.04 0.0144 0.0080

Uranus 35157-01-08 13:55 G 14561897.99 14561898.08 14561898.18 0.0144 0.0102

Uranus 35157-04-06 18:00 G 14561986.19 14561986.25 14561986.32 0.0144 0.0124

Pluto 35158-04-27 02:53 G 14562371.57 14562371.62 14562371.69 0.0075 0.0071

Pluto 35158-07-24 05:31 G 14562459.60 14562459.73 14562459.89 0.0075 0.0052

Pluto 35158-10-20 08:09 G 14562547.67 14562547.84 14562548.03 0.0075 0.0033

Jupiter 35158-12-10 09:21 G 14562598.77 14562598.89 14562599.02 0.0521 0.0095

Pluto 35159-01-16 11:02 G 14562635.77 14562635.96 14562636.16 0.0075 0.0014

Jupiter 35159-03-09 14:53 G 14562688.09 14562688.12 14562688.15 0.0518 0.0501

Pluto 35159-04-14 13:41 G 14562723.87 14562724.07 14562724.27 0.0074 0.0005

Moon 35159-06-04 10:19 G 14562774.85 14562774.93 14562775.01 0.2659 0.1788

Earth 35159-06-04 10:48 G 14562774.87 14562774.95 14562775.02 0.2654 0.1847 *

Pluto 35159-07-11 16:05 G 14562811.99 14562812.17 14562812.37 0.0074 0.0024

Pluto 35159-10-07 18:57 G 14562900.13 14562900.29 14562900.45 0.0074 0.0043

Pluto 35160-01-03 21:07 G 14562988.29 14562988.38 14562988.51 0.0074 0.0061

Mars 35160-01-19 04:48 G 14563003.57 14563003.70 14563003.84 0.1651 0.0909

Saturn 35164-05-19 21:50 G 14564586.31 14564586.41 14564586.52 0.0292 0.0239

Saturn 35164-08-16 22:33 G 14564675.25 14564675.44 14564675.62 0.0293 0.0034

Saturn 35164-11-13 22:48 G 14564764.30 14564764.45 14564764.60 0.0294 0.0172

Jupiter 35165-02-04 23:31 G 14564847.32 14564847.48 14564847.65 0.0505 0.0214

Moon 35166-05-28 11:31 G 14565324.90 14565324.98 14565325.06 0.2647 0.1862

Earth 35166-05-28 11:45 G 14565324.91 14565324.99 14565325.07 0.2654 0.1791 *

Earth 35169-11-29 10:05 G 14566605.77 14566605.92 14566606.07 0.2677 0.0898

Moon 35169-11-29 11:31 G 14566605.83 14566605.98 14566606.14 0.2681 0.0603 *

Venus 35170-04-10 02:24 G 14566737.52 14566737.60 14566737.67 0.3685 0.2531

Jupiter 35170-09-28 13:12 G 14566908.94 14566909.05 14566909.16 0.0521 0.0251

Jupiter 35170-12-26 18:29 G 14566998.18 14566998.27 14566998.37 0.0519 0.0342

Mars 35172-03-11 22:19 G 14567439.32 14567439.43 14567439.53 0.1878 0.0819

Venus 35175-10-24 18:57 G 14568761.19 14568761.29 14568761.40 0.3685 0.0620

Jupiter 35176-11-23 21:07 G 14569157.28 14569157.38 14569157.49 0.0505 0.0406

Jupiter 35177-02-22 07:26 G 14569247.71 14569247.81 14569247.92 0.0507 0.0408

Saturn 35177-09-23 23:17 G 14569461.41 14569461.47 14569461.54 0.0270 0.0231

Saturn 35177-12-21 09:36 G 14569549.79 14569549.90 14569550.02 0.0269 0.0120

Saturn 35178-03-19 20:09 G 14569638.20 14569638.34 14569638.47 0.0268 0.0011

Saturn 35178-06-16 06:29 G 14569726.64 14569726.77 14569726.89 0.0267 0.0103

Saturn 35178-09-12 16:48 G 14569815.12 14569815.20 14569815.28 0.0267 0.0214

Moon 35179-05-31 04:19 G 14570075.57 14570075.68 14570075.78 0.2651 0.0530

Earth 35179-05-31 04:48 G 14570075.60 14570075.70 14570075.81 0.2654 0.0505 *

Venus 35179-10-24 11:31 G 14570221.86 14570221.98 14570222.09 0.3686 0.2179

Venus 35181-05-09 11:45 G 14570784.89 14570784.99 14570785.10 0.3684 0.1372

Mars 35181-08-02 06:29 G 14570869.65 14570869.77 14570869.88 0.1885 0.0450

Jupiter 35182-07-17 17:31 G 14571219.16 14571219.23 14571219.32 0.0521 0.0398

Jupiter 35182-10-14 22:48 G 14571308.33 14571308.45 14571308.57 0.0519 0.0195

Earth 35182-12-02 18:29 G 14571357.18 14571357.27 14571357.36 0.2678 0.2181

Moon 35182-12-02 20:24 G 14571357.27 14571357.35 14571357.43 0.2677 0.2334 *

Venus 35185-05-09 14:53 G 14572246.00 14572246.12 14572246.24 0.3687 0.2023

Venus 35186-11-23 04:48 G 14572808.66 14572808.70 14572808.74 0.3683 0.3388

Jupiter 35188-12-11 04:48 G 14573557.53 14573557.70 14573557.86 0.0506 0.0208

Mars 35190-02-27 03:21 G 14574000.49 14574000.64 14574000.79 0.1657 0.0615

Mars 35190-12-23 14:24 G 14574300.06 14574300.10 14574300.14 0.1892 0.1738

Moon 35192-06-01 21:21 G 14574826.29 14574826.39 14574826.50 0.2655 0.0663

Earth 35192-06-01 22:05 G 14574826.32 14574826.42 14574826.53 0.2654 0.0801 *

Saturn 35194-01-03 19:41 G 14575407.15 14575407.32 14575407.49 0.0294 0.0102

Saturn 35194-04-02 20:09 G 14575496.17 14575496.34 14575496.51 0.0295 0.0104

Jupiter 35194-08-03 03:21 G 14575618.51 14575618.64 14575618.77 0.0520 0.0049

Uranus 35195-06-14 20:24 G 14575934.28 14575934.35 14575934.44 0.0135 0.0122

Uranus 35195-09-11 03:07 G 14576022.51 14576022.63 14576022.77 0.0135 0.0097

Uranus 35195-12-08 10:05 G 14576110.77 14576110.92 14576111.09 0.0135 0.0072

Uranus 35196-03-05 17:02 G 14576199.03 14576199.21 14576199.38 0.0135 0.0047

Uranus 35196-06-01 23:45 G 14576287.30 14576287.49 14576287.67 0.0134 0.0022

Uranus 35196-08-29 06:29 G 14576375.58 14576375.77 14576375.95 0.0134 0.0003

Uranus 35196-11-25 12:57 G 14576463.86 14576464.04 14576464.23 0.0134 0.0027

Uranus 35197-02-21 19:41 G 14576552.15 14576552.32 14576552.49 0.0134 0.0051

Uranus 35197-05-21 02:09 G 14576640.44 14576640.59 14576640.74 0.0134 0.0075

Uranus 35197-08-17 08:38 G 14576728.74 14576728.86 14576728.98 0.0134 0.0098

Uranus 35197-11-13 14:53 G 14576817.06 14576817.12 14576817.20 0.0134 0.0122

Mars 35199-07-20 05:17 G 14577430.58 14577430.72 14577430.87 0.1651 0.0718

Jupiter 35200-09-29 01:41 G 14577867.39 14577867.57 14577867.76 0.0506 0.0008

Moon 35205-06-04 15:07 G 14579577.07 14579577.13 14579577.20 0.2660 0.2108

Earth 35205-06-04 15:21 G 14579577.08 14579577.14 14579577.21 0.2654 0.2116 *

Jupiter 35206-05-22 08:09 G 14579928.71 14579928.84 14579928.96 0.0521 0.0091

Jupiter 35206-08-19 13:26 G 14580018.04 14580018.06 14580018.09 0.0518 0.0506

Saturn 35207-02-11 01:26 G 14580193.55 14580193.56 14580193.57 0.0270 0.0268

Saturn 35207-05-10 11:45 G 14580281.88 14580281.99 14580282.10 0.0269 0.0157

Saturn 35207-08-06 22:05 G 14580370.29 14580370.42 14580370.55 0.0268 0.0046

Saturn 35207-11-03 08:24 G 14580458.72 14580458.85 14580458.98 0.0267 0.0065

Saturn 35208-01-30 18:43 G 14580547.18 14580547.28 14580547.38 0.0266 0.0176

Mars 35211-09-10 22:19 G 14581866.33 14581866.43 14581866.53 0.1878 0.0989

Moon 35212-05-28 16:05 G 14582127.09 14582127.17 14582127.26 0.2648 0.1508

Earth 35212-05-28 16:19 G 14582127.10 14582127.18 14582127.27 0.2654 0.1529 *

Jupiter 35212-07-17 22:19 G 14582177.27 14582177.43 14582177.60 0.0505 0.0200

Earth 35215-11-30 17:02 G 14583408.05 14583408.21 14583408.37 0.2677 0.0316

Moon 35215-11-30 18:43 G 14583408.12 14583408.28 14583408.44 0.2679 0.0196 *

Neptune 35216-12-26 02:38 G 14583799.58 14583799.61 14583799.64 0.0089 0.0086

Neptune 35217-03-24 03:50 G 14583887.61 14583887.66 14583887.72 0.0089 0.0079

Neptune 35217-06-20 05:02 G 14583975.64 14583975.71 14583975.80 0.0089 0.0072

Neptune 35217-09-16 06:29 G 14584063.69 14584063.77 14584063.87 0.0089 0.0065

Neptune 35217-12-13 07:41 G 14584151.73 14584151.82 14584151.93 0.0089 0.0058

Jupiter 35218-03-10 12:43 G 14584238.92 14584239.03 14584239.15 0.0521 0.0231

Neptune 35218-03-11 09:21 G 14584239.78 14584239.89 14584240.00 0.0089 0.0050

Neptune 35218-06-07 10:33 G 14584327.83 14584327.94 14584328.06 0.0088 0.0043

Jupiter 35218-06-07 18:14 G 14584328.17 14584328.26 14584328.35 0.0519 0.0364

Neptune 35218-09-03 11:45 G 14584415.88 14584415.99 14584416.12 0.0088 0.0036

Neptune 35218-11-30 13:12 G 14584503.93 14584504.05 14584504.18 0.0088 0.0028

Neptune 35219-02-26 14:38 G 14584591.98 14584592.11 14584592.24 0.0088 0.0021

Neptune 35219-05-25 16:05 G 14584680.04 14584680.17 14584680.30 0.0088 0.0014

Neptune 35219-08-21 17:31 G 14584768.09 14584768.23 14584768.36 0.0088 0.0007

Neptune 35219-11-17 18:43 G 14584856.15 14584856.28 14584856.42 0.0088 0.0002

Neptune 35220-02-13 20:09 G 14584944.21 14584944.34 14584944.47 0.0088 0.0008

Neptune 35220-05-11 21:21 G 14585032.26 14585032.39 14585032.53 0.0088 0.0016

Neptune 35220-08-07 22:48 G 14585120.32 14585120.45 14585120.58 0.0088 0.0023

Neptune 35220-11-04 00:14 G 14585208.38 14585208.51 14585208.64 0.0088 0.0031

Neptune 35221-01-31 01:26 G 14585296.45 14585296.56 14585296.69 0.0088 0.0038

Mars 35221-01-31 06:29 G 14585296.65 14585296.77 14585296.88 0.1884 0.0301 *

Neptune 35221-04-29 02:53 G 14585384.51 14585384.62 14585384.74 0.0088 0.0046

Neptune 35221-07-26 04:19 G 14585472.58 14585472.68 14585472.79 0.0088 0.0053

Neptune 35221-10-22 05:31 G 14585560.64 14585560.73 14585560.84 0.0088 0.0061

Neptune 35222-01-18 06:57 G 14585648.72 14585648.79 14585648.89 0.0088 0.0068

Neptune 35222-04-16 08:24 G 14585736.79 14585736.85 14585736.93 0.0088 0.0075

Neptune 35222-07-13 09:50 G 14585824.87 14585824.91 14585824.96 0.0088 0.0083

Saturn 35223-05-23 14:38 G 14586138.97 14586139.11 14586139.25 0.0293 0.0187

Saturn 35223-08-20 15:07 G 14586227.95 14586228.13 14586228.31 0.0294 0.0019

Saturn 35223-11-17 15:21 G 14586317.03 14586317.14 14586317.26 0.0295 0.0223

Jupiter 35224-05-05 19:55 G 14586487.22 14586487.33 14586487.45 0.0505 0.0393

Jupiter 35224-08-04 06:14 G 14586577.67 14586577.76 14586577.87 0.0507 0.0421

Moon 35225-05-31 08:53 G 14586877.77 14586877.87 14586877.98 0.2652 0.0395

Earth 35225-05-31 09:36 G 14586877.79 14586877.90 14586878.01 0.2654 0.0237 *

Venus 35226-11-15 00:00 G 14587410.41 14587410.50 14587410.60 0.3685 0.1858

Mars 35229-08-28 03:50 G 14588427.52 14588427.66 14588427.80 0.1657 0.0809

Jupiter 35229-12-27 16:48 G 14588549.12 14588549.20 14588549.28 0.0521 0.0384

Jupiter 35230-03-26 22:05 G 14588638.30 14588638.42 14588638.54 0.0519 0.0207

Mars 35230-06-23 14:24 G 14588727.04 14588727.10 14588727.16 0.1892 0.1585

Venus 35232-05-30 16:48 G 14589434.09 14589434.20 14589434.31 0.3684 0.0107

Jupiter 35236-05-23 04:19 G 14590887.52 14590887.68 14590887.84 0.0507 0.0231

Venus 35236-05-30 12:14 G 14590894.87 14590895.01 14590895.15 0.3686 0.0748

Saturn 35236-09-26 13:55 G 14591014.00 14591014.08 14591014.18 0.0270 0.0195

Saturn 35236-12-24 00:29 G 14591102.39 14591102.52 14591102.64 0.0269 0.0083

Saturn 35237-03-22 10:48 G 14591190.81 14591190.95 14591191.08 0.0268 0.0030

Saturn 35237-06-18 21:07 G 14591279.26 14591279.38 14591279.49 0.0267 0.0140

Saturn 35237-09-15 07:26 G 14591367.77 14591367.81 14591367.86 0.0267 0.0251

Venus 35237-12-14 09:36 G 14591457.82 14591457.90 14591457.99 0.3684 0.2084

Moon 35238-06-03 02:09 G 14591628.49 14591628.59 14591628.69 0.2656 0.1038

Earth 35238-06-03 02:53 G 14591628.52 14591628.62 14591628.72 0.2654 0.1066 *

Uranus 35238-06-04 03:36 G 14591629.60 14591629.65 14591629.70 0.0143 0.0132

Uranus 35238-08-31 07:12 G 14591717.72 14591717.80 14591717.89 0.0144 0.0111

Uranus 35238-11-27 10:48 G 14591805.86 14591805.95 14591806.06 0.0144 0.0090

Mars 35239-01-18 06:14 G 14591857.60 14591857.76 14591857.91 0.1652 0.0513

Uranus 35239-02-23 14:38 G 14591894.00 14591894.11 14591894.23 0.0144 0.0068

Uranus 35239-05-22 18:29 G 14591982.14 14591982.27 14591982.40 0.0144 0.0047

Uranus 35239-08-18 22:19 G 14592070.29 14592070.43 14592070.56 0.0144 0.0025

Uranus 35239-11-15 02:09 G 14592158.45 14592158.59 14592158.72 0.0144 0.0005

Uranus 35240-02-11 06:00 G 14592246.61 14592246.75 14592246.88 0.0144 0.0019

Uranus 35240-05-09 09:36 G 14592334.77 14592334.90 14592335.04 0.0144 0.0041

Uranus 35240-08-05 13:26 G 14592422.94 14592423.06 14592423.19 0.0144 0.0063

Uranus 35240-11-01 17:17 G 14592511.12 14592511.22 14592511.34 0.0144 0.0086

Uranus 35241-01-28 21:21 G 14592599.30 14592599.39 14592599.48 0.0144 0.0108

Uranus 35241-04-27 01:12 G 14592687.50 14592687.55 14592687.61 0.0144 0.0130

Venus 35241-12-14 15:21 G 14592919.09 14592919.14 14592919.19 0.3687 0.3396

Jupiter 35242-01-13 02:24 G 14592948.47 14592948.60 14592948.73 0.0520 0.0061

Moon 35245-05-27 04:05 G 14594178.64 14594178.67 14594178.70 0.2647 0.2514

Earth 35245-05-27 04:05 G 14594178.64 14594178.67 14594178.70 0.2654 0.2538 *

Jupiter 35248-03-11 01:26 G 14595197.38 14595197.56 14595197.74 0.0506 0.0031

Mars 35251-03-11 22:19 G 14596293.34 14596293.43 14596293.52 0.1877 0.1130

Moon 35251-06-05 19:55 G 14596379.28 14596379.33 14596379.38 0.2661 0.2316

Earth 35251-06-05 20:09 G 14596379.30 14596379.34 14596379.39 0.2654 0.2383 *

Saturn 35252-10-09 11:02 G 14596870.89 14596870.96 14596871.05 0.0293 0.0260

Saturn 35253-01-06 12:00 G 14596959.82 14596960.00 14596960.18 0.0294 0.0053

Saturn 35253-04-05 12:14 G 14597048.86 14597049.01 14597049.17 0.0295 0.0152

Jupiter 35253-11-01 06:43 G 14597258.66 14597258.78 14597258.91 0.0520 0.0087

Jupiter 35254-01-29 12:14 G 14597347.99 14597348.01 14597348.03 0.0518 0.0510

Moon 35258-05-29 20:53 G 14598929.27 14598929.37 14598929.46 0.2649 0.1332

Earth 35258-05-29 21:07 G 14598929.29 14598929.38 14598929.48 0.2654 0.1258 *

Jupiter 35259-12-28 22:19 G 14599507.26 14599507.43 14599507.61 0.0505 0.0171

Mars 35260-08-01 06:14 G 14599723.65 14599723.76 14599723.88 0.1885 0.0158

Earth 35261-11-30 23:45 G 14600210.33 14600210.49 14600210.65 0.2677 0.0272

Moon 35261-12-01 01:41 G 14600210.41 14600210.57 14600210.72 0.2679 0.0610 *

Jupiter 35265-08-20 11:31 G 14601568.87 14601568.98 14601569.10 0.0521 0.0225

Jupiter 35265-11-17 17:02 G 14601658.12 14601658.21 14601658.30 0.0519 0.0370

Saturn 35266-02-13 16:05 G 14601746.11 14601746.17 14601746.24 0.0270 0.0232

Saturn 35266-05-13 02:24 G 14601834.48 14601834.60 14601834.72 0.0269 0.0121

Saturn 35266-08-09 12:43 G 14601922.90 14601923.03 14601923.16 0.0268 0.0009

Saturn 35266-11-05 23:02 G 14602011.34 14602011.46 14602011.59 0.0267 0.0102

Saturn 35267-02-02 09:21 G 14602099.82 14602099.89 14602099.98 0.0266 0.0213

Mars 35269-02-26 04:19 G 14602854.55 14602854.68 14602854.81 0.1657 0.1000

Mars 35269-12-22 14:24 G 14603154.03 14603154.10 14603154.18 0.1891 0.1421

Moon 35271-06-01 13:41 G 14603679.96 14603680.07 14603680.18 0.2652 0.0010

Earth 35271-06-01 14:24 G 14603679.99 14603680.10 14603680.21 0.2654 0.0039 *

Jupiter 35271-10-16 18:57 G 14603817.18 14603817.29 14603817.42 0.0505 0.0377

Jupiter 35272-01-15 05:17 G 14603907.64 14603907.72 14603907.82 0.0507 0.0437

Jupiter 35277-06-08 16:19 G 14605879.09 14605879.18 14605879.27 0.0522 0.0364

Jupiter 35277-09-05 21:36 G 14605968.29 14605968.40 14605968.52 0.0519 0.0231

Venus 35277-12-06 05:17 G 14606059.66 14606059.72 14606059.77 0.3685 0.3080

Mars 35278-07-19 06:43 G 14606284.62 14606284.78 14606284.94 0.1652 0.0312

Uranus 35279-07-05 03:21 G 14606635.55 14606635.64 14606635.74 0.0135 0.0116

Uranus 35279-10-01 10:19 G 14606723.79 14606723.93 14606724.07 0.0135 0.0091

Uranus 35279-12-28 16:48 G 14606812.05 14606812.20 14606812.38 0.0134 0.0067

Uranus 35280-03-25 23:45 G 14606900.32 14606900.49 14606900.67 0.0134 0.0041

Uranus 35280-06-22 06:29 G 14606988.59 14606988.77 14606988.96 0.0134 0.0017

Uranus 35280-09-18 13:12 G 14607076.87 14607077.05 14607077.24 0.0134 0.0008

Uranus 35280-12-15 19:55 G 14607165.15 14607165.33 14607165.51 0.0134 0.0032

Uranus 35281-03-14 02:24 G 14607253.44 14607253.60 14607253.77 0.0134 0.0056

Uranus 35281-06-10 08:53 G 14607341.73 14607341.87 14607342.02 0.0134 0.0080

Uranus 35281-09-06 15:07 G 14607430.03 14607430.13 14607430.26 0.0134 0.0105

Uranus 35281-12-03 21:50 G 14607518.36 14607518.41 14607518.47 0.0134 0.0127

Saturn 35282-05-26 06:43 G 14607691.62 14607691.78 14607691.94 0.0293 0.0140

Saturn 35282-08-23 07:12 G 14607780.62 14607780.80 14607780.98 0.0294 0.0066

Saturn 35282-11-20 07:26 G 14607869.74 14607869.81 14607869.88 0.0295 0.0270

Venus 35283-06-21 21:50 G 14608083.31 14608083.41 14608083.51 0.3685 0.1164

Jupiter 35283-11-03 03:21 G 14608217.48 14608217.64 14608217.80 0.0507 0.0247

Moon 35284-06-03 07:12 G 14608430.70 14608430.80 14608430.89 0.2658 0.1206

Earth 35284-06-03 07:41 G 14608430.73 14608430.82 14608430.91 0.2654 0.1335 *

Venus 35287-06-21 09:07 G 14609543.86 14609543.88 14609543.90 0.3685 0.3645

Mars 35287-12-09 08:53 G 14609714.85 14609714.87 14609714.89 0.1646 0.1632

Venus 35289-01-04 14:38 G 14610107.00 14610107.11 14610107.21 0.3684 0.0794

Jupiter 35289-03-27 20:24 G 14610189.34 14610189.35 14610189.37 0.0522 0.0515

Jupiter 35289-06-25 01:41 G 14610278.44 14610278.57 14610278.69 0.0519 0.0076

Mars 35290-09-09 22:19 G 14610720.35 14610720.43 14610720.52 0.1877 0.1287

Moon 35291-05-28 08:53 G 14610980.81 14610980.87 14610980.92 0.2647 0.2247

Earth 35291-05-28 08:38 G 14610980.81 14610980.86 14610980.92 0.2654 0.2280 *

Venus 35293-01-04 12:43 G 14611567.90 14611568.03 14611568.17 0.3686 0.0687

Venus 35294-07-21 07:26 G 14612130.74 14612130.81 14612130.88 0.3683 0.2804

Earth 35294-11-28 21:50 G 14612261.33 14612261.41 14612261.50 0.2677 0.2266

Moon 35294-11-28 23:17 G 14612261.37 14612261.47 14612261.57 0.2682 0.2102 *

Jupiter 35295-08-22 00:57 G 14612527.36 14612527.54 14612527.72 0.0506 0.0055

Saturn 35295-09-30 04:33 G 14612566.58 14612566.69 14612566.79 0.0270 0.0160

Saturn 35295-12-27 14:53 G 14612654.99 14612655.12 14612655.25 0.0269 0.0048

Saturn 35296-03-25 01:12 G 14612743.42 14612743.55 14612743.68 0.0268 0.0064

Saturn 35296-06-21 11:31 G 14612831.88 14612831.98 14612832.09 0.0267 0.0176

Earth 35297-06-06 00:57 G 14613181.54 14613181.54 14613181.54 0.2654 0.2649

Mars 35300-01-31 06:29 G 14614150.65 14614150.77 14614150.88 0.1884 0.0069

Neptune 35301-03-07 15:36 G 14614551.13 14614551.15 14614551.21 0.0089 0.0087

Jupiter 35301-04-14 06:00 G 14614588.63 14614588.75 14614588.88 0.0520 0.0071

Neptune 35301-06-03 19:12 G 14614639.22 14614639.30 14614639.41 0.0089 0.0076

Neptune 35301-08-30 22:33 G 14614727.33 14614727.44 14614727.59 0.0089 0.0066

Neptune 35301-11-27 02:09 G 14614815.45 14614815.59 14614815.75 0.0089 0.0055

Neptune 35302-02-23 05:31 G 14614903.58 14614903.73 14614903.91 0.0089 0.0045

Neptune 35302-05-22 09:07 G 14614991.71 14614991.88 14614992.07 0.0089 0.0034

Neptune 35302-08-18 12:29 G 14615079.85 14615080.02 14615080.22 0.0089 0.0024

Neptune 35302-11-14 16:05 G 14615167.99 14615168.17 14615168.37 0.0089 0.0013

Neptune 35303-02-10 19:41 G 14615256.13 14615256.32 14615256.51 0.0089 0.0002

Neptune 35303-05-09 23:02 G 14615344.27 14615344.46 14615344.65 0.0089 0.0008

Neptune 35303-08-06 02:24 G 14615432.42 14615432.60 14615432.79 0.0089 0.0019

Neptune 35303-11-02 05:45 G 14615520.57 14615520.74 14615520.92 0.0089 0.0029

Neptune 35304-01-29 09:07 G 14615608.72 14615608.88 14615609.06 0.0089 0.0039

Neptune 35304-04-26 12:14 G 14615696.87 14615697.01 14615697.18 0.0089 0.0050

Moon 35304-05-31 01:26 G 14615731.46 14615731.56 14615731.66 0.2650 0.1058

Earth 35304-05-31 01:55 G 14615731.48 14615731.58 14615731.68 0.2654 0.0996 *

Neptune 35304-07-23 15:50 G 14615785.03 14615785.16 14615785.31 0.0089 0.0060

Neptune 35304-10-19 19:12 G 14615873.19 14615873.30 14615873.42 0.0089 0.0070

Neptune 35305-01-15 22:19 G 14615961.37 14615961.43 14615961.53 0.0089 0.0081

Jupiter 35307-06-10 22:05 G 14616837.25 14616837.42 14616837.60 0.0506 0.0146

Earth 35307-12-03 06:43 G 14617012.62 14617012.78 14617012.93 0.2678 0.0863

Moon 35307-12-03 08:24 G 14617012.70 14617012.85 14617013.00 0.2679 0.1001 *

Mars 35308-08-28 05:02 G 14617281.60 14617281.71 14617281.82 0.1658 0.1206

Mars 35309-06-23 14:24 G 14617581.01 14617581.10 14617581.18 0.1891 0.1284

Saturn 35311-10-14 03:21 G 14618423.52 14618423.64 14618423.78 0.0293 0.0211

Saturn 35312-01-11 04:19 G 14618512.49 14618512.68 14618512.86 0.0294 0.0009

Saturn 35312-04-09 04:19 G 14618601.56 14618601.68 14618601.82 0.0295 0.0201

Jupiter 35313-01-31 10:33 G 14618898.82 14618898.94 14618899.05 0.0521 0.0218

Jupiter 35313-04-30 15:50 G 14618988.07 14618988.16 14618988.25 0.0519 0.0376

Moon 35317-06-02 18:29 G 14620482.16 14620482.27 14620482.38 0.2653 0.0160

Earth 35317-06-02 19:12 G 14620482.19 14620482.30 14620482.41 0.2654 0.0308 *

Mars 35318-01-18 07:12 G 14620711.64 14620711.80 14620711.96 0.1652 0.0120

Pluto 35318-02-16 03:50 G 14620740.62 14620740.66 14620740.71 0.0069 0.0065

Pluto 35318-05-15 04:19 G 14620828.61 14620828.68 14620828.76 0.0069 0.0055

Pluto 35318-08-11 05:02 G 14620916.61 14620916.71 14620916.81 0.0069 0.0045

Pluto 35318-11-07 05:31 G 14621004.62 14621004.73 14621004.84 0.0070 0.0035

Pluto 35319-02-03 06:00 G 14621092.63 14621092.75 14621092.88 0.0070 0.0025

Jupiter 35319-03-29 19:12 G 14621147.16 14621147.30 14621147.43 0.0505 0.0347

Pluto 35319-05-02 06:29 G 14621180.65 14621180.77 14621180.90 0.0070 0.0015

Jupiter 35319-06-28 05:17 G 14621237.66 14621237.72 14621237.79 0.0507 0.0466

Pluto 35319-07-29 07:12 G 14621268.67 14621268.80 14621268.93 0.0070 0.0004

Pluto 35319-10-25 07:41 G 14621356.69 14621356.82 14621356.95 0.0070 0.0006

Pluto 35320-01-21 08:24 G 14621444.72 14621444.85 14621444.97 0.0070 0.0017

Pluto 35320-04-18 08:38 G 14621532.75 14621532.86 14621532.99 0.0070 0.0027

Pluto 35320-07-15 09:07 G 14621620.78 14621620.88 14621621.00 0.0070 0.0038

Pluto 35320-10-11 09:50 G 14621708.82 14621708.91 14621709.01 0.0070 0.0048

Pluto 35321-01-07 10:19 G 14621796.87 14621796.93 14621797.01 0.0071 0.0059

Pluto 35321-04-05 10:48 G 14621884.94 14621884.95 14621884.99 0.0071 0.0070

Uranus 35322-06-25 10:19 G 14622330.88 14622330.93 14622330.99 0.0144 0.0129

Uranus 35322-09-21 13:55 G 14622419.00 14622419.08 14622419.18 0.0144 0.0108

Uranus 35322-12-18 17:45 G 14622507.14 14622507.24 14622507.35 0.0144 0.0086

Uranus 35323-03-16 21:36 G 14622595.28 14622595.40 14622595.52 0.0144 0.0065

Uranus 35323-06-13 01:12 G 14622683.43 14622683.55 14622683.69 0.0144 0.0044

Uranus 35323-09-09 05:02 G 14622771.58 14622771.71 14622771.85 0.0144 0.0022

Uranus 35323-12-06 08:53 G 14622859.74 14622859.87 14622860.01 0.0144 0.0002

Uranus 35324-03-03 12:43 G 14622947.90 14622948.03 14622948.17 0.0144 0.0022

Uranus 35324-05-30 16:33 G 14623036.06 14623036.19 14623036.32 0.0144 0.0044

Uranus 35324-08-26 20:24 G 14623124.23 14623124.35 14623124.47 0.0144 0.0067

Jupiter 35324-11-19 15:07 G 14623209.04 14623209.13 14623209.23 0.0522 0.0358

Uranus 35324-11-23 00:14 G 14623212.41 14623212.51 14623212.62 0.0144 0.0089

Jupiter 35325-02-16 20:24 G 14623298.24 14623298.35 14623298.47 0.0519 0.0237

Saturn 35325-02-17 06:29 G 14623298.68 14623298.77 14623298.86 0.0270 0.0198

Uranus 35325-02-19 04:19 G 14623300.59 14623300.68 14623300.77 0.0144 0.0111

Saturn 35325-05-16 16:48 G 14623387.08 14623387.20 14623387.33 0.0269 0.0086

Uranus 35325-05-18 07:55 G 14623388.80 14623388.83 14623388.89 0.0144 0.0135

Saturn 35325-08-13 03:07 G 14623475.50 14623475.63 14623475.77 0.0268 0.0026

Saturn 35325-11-09 13:26 G 14623563.95 14623564.06 14623564.18 0.0267 0.0138

Saturn 35326-02-06 00:00 G 14623652.46 14623652.50 14623652.55 0.0266 0.0248

Mars 35327-06-10 09:21 G 14624141.81 14624141.89 14624141.97 0.1646 0.1444

Mars 35330-03-11 22:19 G 14625147.36 14625147.43 14625147.51 0.1877 0.1448

Moon 35330-06-05 12:00 G 14625232.91 14625233.00 14625233.08 0.2659 0.1601

Earth 35330-06-05 12:29 G 14625232.93 14625233.02 14625233.10 0.2654 0.1607 *

Jupiter 35331-04-16 02:24 G 14625547.44 14625547.60 14625547.75 0.0507 0.0263

Venus 35334-07-14 02:53 G 14626732.54 14626732.62 14626732.70 0.3685 0.2406

Jupiter 35336-09-07 19:55 G 14627519.30 14627519.33 14627519.37 0.0522 0.0496

Jupiter 35336-12-06 01:12 G 14627608.43 14627608.55 14627608.68 0.0520 0.0097

Moon 35337-05-29 13:26 G 14627782.99 14627783.06 14627783.13 0.2647 0.2037

Earth 35337-05-29 13:26 G 14627782.99 14627783.06 14627783.13 0.2654 0.2016 *

Mars 35339-08-02 06:29 G 14628577.65 14628577.77 14628577.88 0.1884 0.0171

Venus 35340-01-27 19:41 G 14628756.21 14628756.32 14628756.42 0.3684 0.0480

Earth 35340-11-30 04:48 G 14629063.57 14629063.70 14629063.82 0.2677 0.1675

Moon 35340-11-30 06:14 G 14629063.63 14629063.76 14629063.90 0.2681 0.1442 *

Saturn 35341-05-29 22:48 G 14629244.28 14629244.45 14629244.63 0.0293 0.0092

Saturn 35341-08-26 23:17 G 14629333.30 14629333.47 14629333.64 0.0294 0.0113

Jupiter 35343-02-02 00:00 G 14629857.32 14629857.50 14629857.69 0.0506 0.0073

Venus 35344-01-27 09:50 G 14630216.80 14630216.91 14630217.03 0.3686 0.2177

Venus 35345-08-12 12:29 G 14630779.92 14630780.02 14630780.12 0.3684 0.1504

Mars 35348-02-27 05:45 G 14631708.65 14631708.74 14631708.82 0.1658 0.1409

Jupiter 35348-09-24 05:17 G 14631918.59 14631918.72 14631918.85 0.0520 0.0056

Mars 35348-12-22 14:24 G 14632008.01 14632008.10 14632008.19 0.1891 0.1126

Venus 35349-08-12 13:26 G 14632240.94 14632241.06 14632241.17 0.3687 0.2080

Moon 35350-06-01 06:00 G 14632533.65 14632533.75 14632533.86 0.2650 0.0801

Earth 35350-06-01 06:43 G 14632533.67 14632533.78 14632533.88 0.2654 0.0734 *

Venus 35351-02-26 05:17 G 14632803.70 14632803.72 14632803.75 0.3683 0.3533

Earth 35353-12-03 13:26 G 14633814.92 14633815.06 14633815.19 0.2678 0.1434

Moon 35353-12-03 15:07 G 14633815.01 14633815.13 14633815.25 0.2678 0.1711 *

Saturn 35354-07-07 08:24 G 14634030.80 14634030.85 14634030.92 0.0271 0.0239

Saturn 35354-10-03 18:57 G 14634119.17 14634119.29 14634119.40 0.0270 0.0126

Jupiter 35354-11-20 21:36 G 14634167.22 14634167.40 14634167.58 0.0506 0.0124

Saturn 35354-12-31 05:17 G 14634207.58 14634207.72 14634207.85 0.0269 0.0014

Saturn 35355-03-29 15:36 G 14634296.03 14634296.15 14634296.28 0.0268 0.0099

Saturn 35355-06-26 02:09 G 14634384.51 14634384.59 14634384.67 0.0267 0.0211

Mars 35357-07-19 07:55 G 14635138.67 14635138.83 14635138.99 0.1652 0.0084

Jupiter 35360-07-13 09:36 G 14636228.79 14636228.90 14636229.02 0.0520 0.0203

Jupiter 35360-10-10 14:53 G 14636318.04 14636318.12 14636318.21 0.0518 0.0392

Moon 35363-06-03 23:17 G 14637284.36 14637284.47 14637284.58 0.2654 0.0499

Earth 35363-06-04 00:00 G 14637284.39 14637284.50 14637284.60 0.2654 0.0573 *

Uranus 35363-07-26 10:19 G 14637336.83 14637336.93 14637337.04 0.0135 0.0110

Uranus 35363-10-22 17:17 G 14637425.08 14637425.22 14637425.36 0.0134 0.0085

Uranus 35364-01-18 23:45 G 14637513.34 14637513.49 14637513.67 0.0134 0.0061

Uranus 35364-04-16 06:43 G 14637601.61 14637601.78 14637601.97 0.0134 0.0035

Uranus 35364-07-13 13:26 G 14637689.88 14637690.06 14637690.25 0.0134 0.0011

Uranus 35364-10-09 20:09 G 14637778.16 14637778.34 14637778.53 0.0134 0.0014

Uranus 35365-01-06 02:53 G 14637866.44 14637866.62 14637866.80 0.0134 0.0038

Uranus 35365-04-04 09:21 G 14637954.73 14637954.89 14637955.06 0.0134 0.0062

Uranus 35365-07-01 15:50 G 14638043.03 14638043.16 14638043.31 0.0134 0.0086

Uranus 35365-09-27 22:19 G 14638131.33 14638131.43 14638131.54 0.0134 0.0110

Uranus 35365-12-25 04:48 G 14638219.69 14638219.70 14638219.72 0.0134 0.0133

Jupiter 35366-09-08 18:43 G 14638477.14 14638477.28 14638477.42 0.0505 0.0325

Jupiter 35366-12-08 05:02 G 14638567.66 14638567.71 14638567.75 0.0507 0.0489

Mars 35366-12-09 10:05 G 14638568.81 14638568.92 14638569.03 0.1647 0.1234

Mars 35369-09-09 22:19 G 14639574.37 14639574.43 14639574.49 0.1877 0.1598

Saturn 35370-10-16 20:09 G 14639976.19 14639976.34 14639976.49 0.0293 0.0160

Saturn 35371-01-13 20:38 G 14640065.18 14640065.36 14640065.54 0.0294 0.0046

Saturn 35371-04-12 20:38 G 14640154.28 14640154.36 14640154.46 0.0295 0.0251

Jupiter 35372-05-01 14:09 G 14640538.99 14640539.09 14640539.18 0.0521 0.0349

Jupiter 35372-07-29 19:12 G 14640628.19 14640628.30 14640628.42 0.0519 0.0244

Moon 35376-06-05 16:48 G 14642035.12 14642035.20 14642035.28 0.2659 0.1766

Earth 35376-06-05 17:17 G 14642035.14 14642035.22 14642035.29 0.2654 0.1877 *

Jupiter 35378-09-26 02:09 G 14642877.44 14642877.59 14642877.74 0.0507 0.0290

Mars 35379-01-31 06:14 G 14643004.65 14643004.76 14643004.88 0.1884 0.0316

Neptune 35381-09-23 02:09 G 14643970.56 14643970.59 14643970.65 0.0089 0.0083

Neptune 35381-12-20 03:36 G 14644058.59 14644058.65 14644058.73 0.0089 0.0076

Neptune 35382-03-18 04:48 G 14644146.63 14644146.70 14644146.80 0.0089 0.0069

Neptune 35382-06-14 06:29 G 14644234.67 14644234.77 14644234.87 0.0089 0.0061

Neptune 35382-09-10 07:41 G 14644322.72 14644322.82 14644322.93 0.0088 0.0054

Neptune 35382-12-07 08:53 G 14644410.77 14644410.87 14644410.99 0.0088 0.0047

Neptune 35383-03-05 10:19 G 14644498.82 14644498.93 14644499.06 0.0088 0.0039

Moon 35383-05-30 18:00 G 14644585.17 14644585.25 14644585.33 0.2648 0.1728

Earth 35383-05-30 18:14 G 14644585.18 14644585.26 14644585.34 0.2654 0.1754 *

Neptune 35383-06-01 11:45 G 14644586.87 14644586.99 14644587.12 0.0088 0.0032

Neptune 35383-08-28 13:12 G 14644674.92 14644675.05 14644675.18 0.0088 0.0025

Neptune 35383-11-24 14:24 G 14644762.97 14644763.10 14644763.24 0.0088 0.0018

Jupiter 35384-02-18 18:43 G 14644849.24 14644849.28 14644849.32 0.0522 0.0491

Neptune 35384-02-20 15:50 G 14644851.03 14644851.16 14644851.30 0.0088 0.0010

Saturn 35384-02-20 21:07 G 14644851.27 14644851.38 14644851.48 0.0270 0.0163 *

Jupiter 35384-05-18 00:00 G 14644938.37 14644938.50 14644938.62 0.0520 0.0102

Neptune 35384-05-18 17:17 G 14644939.09 14644939.22 14644939.35 0.0088 0.0003

Saturn 35384-05-19 07:26 G 14644939.68 14644939.81 14644939.94 0.0269 0.0051

Neptune 35384-08-14 18:43 G 14645027.14 14645027.28 14645027.41 0.0088 0.0005

Saturn 35384-08-15 17:45 G 14645028.11 14645028.24 14645028.37 0.0268 0.0062

Neptune 35384-11-10 19:55 G 14645115.20 14645115.33 14645115.47 0.0088 0.0012

Saturn 35384-11-12 04:05 G 14645116.57 14645116.67 14645116.78 0.0267 0.0174

Neptune 35385-02-06 21:21 G 14645203.26 14645203.39 14645203.52 0.0088 0.0019

Neptune 35385-05-05 22:48 G 14645291.32 14645291.45 14645291.58 0.0088 0.0027

Neptune 35385-08-02 00:00 G 14645379.38 14645379.50 14645379.63 0.0088 0.0034

Venus 35385-08-04 08:09 G 14645381.82 14645381.84 14645381.85 0.3685 0.3623

Neptune 35385-10-29 01:26 G 14645467.45 14645467.56 14645467.68 0.0088 0.0042

Neptune 35386-01-25 02:38 G 14645555.51 14645555.61 14645555.73 0.0088 0.0050

Neptune 35386-04-23 04:05 G 14645643.58 14645643.67 14645643.78 0.0088 0.0057

Neptune 35386-07-20 05:45 G 14645731.65 14645731.74 14645731.83 0.0088 0.0064

Neptune 35386-10-16 06:57 G 14645819.72 14645819.79 14645819.87 0.0088 0.0071

Earth 35386-12-01 11:31 G 14645865.84 14645865.98 14645866.13 0.2678 0.1090

Moon 35386-12-01 13:12 G 14645865.90 14645866.05 14645866.20 0.2681 0.0940 *

Neptune 35387-01-12 08:24 G 14645907.80 14645907.85 14645907.91 0.0088 0.0079

Neptune 35387-04-10 09:36 G 14645995.89 14645995.90 14645995.94 0.0088 0.0086

Mars 35387-08-28 06:00 G 14646135.71 14646135.75 14646135.80 0.1658 0.1591

Mars 35388-06-22 14:24 G 14646435.00 14646435.10 14646435.20 0.1891 0.0967

Jupiter 35390-07-14 23:02 G 14647187.28 14647187.46 14647187.64 0.0506 0.0086

Venus 35391-02-18 00:43 G 14647405.43 14647405.53 14647405.62 0.3685 0.1723

Jupiter 35396-03-06 04:48 G 14649248.57 14649248.70 14649248.82 0.0520 0.0040

Moon 35396-06-01 10:48 G 14649335.84 14649335.95 14649336.06 0.2650 0.0574

Earth 35396-06-01 11:17 G 14649335.87 14649335.97 14649336.08 0.2654 0.0481 *

Venus 35396-09-02 17:17 G 14649429.12 14649429.22 14649429.33 0.3684 0.0265

Mars 35397-01-17 08:24 G 14649565.70 14649565.85 14649566.01 0.1652 0.0288

Earth 35399-12-04 20:09 G 14650617.24 14650617.34 14650617.45 0.2678 0.2012

Moon 35399-12-04 21:50 G 14650617.32 14650617.41 14650617.50 0.2676 0.2212 *

Saturn 35400-03-05 15:07 G 14650708.04 14650708.13 14650708.24 0.0292 0.0243

Saturn 35400-06-02 15:50 G 14650796.98 14650797.16 14650797.35 0.0293 0.0037

Saturn 35400-08-30 16:19 G 14650886.03 14650886.18 14650886.33 0.0294 0.0168

Venus 35400-09-03 10:33 G 14650889.80 14650889.94 14650890.08 0.3686 0.0734

Venus 35402-03-20 10:05 G 14651452.84 14651452.92 14651453.01 0.3684 0.2221

Jupiter 35402-05-03 20:38 G 14651497.18 14651497.36 14651497.54 0.0506 0.0108

Pluto 35403-12-27 15:50 G 14652100.16 14652100.16 14652100.19 0.0075 0.0075

Pluto 35404-03-24 18:57 G 14652188.16 14652188.29 14652188.42 0.0075 0.0055

Pluto 35404-06-20 21:36 G 14652276.22 14652276.40 14652276.57 0.0075 0.0036

Pluto 35404-09-17 00:00 G 14652364.31 14652364.50 14652364.70 0.0075 0.0017

Pluto 35404-12-14 02:38 G 14652452.42 14652452.61 14652452.81 0.0074 0.0003

Pluto 35405-03-12 05:17 G 14652540.53 14652540.72 14652540.92 0.0074 0.0021

Pluto 35405-06-08 07:41 G 14652628.66 14652628.82 14652629.00 0.0074 0.0040

Pluto 35405-09-04 10:05 G 14652716.82 14652716.92 14652717.06 0.0074 0.0058

Venus 35406-03-20 13:55 G 14652914.04 14652914.08 14652914.13 0.3687 0.3459

Mars 35406-06-10 10:33 G 14652995.82 14652995.94 14652996.07 0.1647 0.1039

Uranus 35406-07-16 17:02 G 14653032.15 14653032.21 14653032.27 0.0144 0.0127

Uranus 35406-10-12 20:38 G 14653120.27 14653120.36 14653120.45 0.0144 0.0106

Uranus 35407-01-09 00:14 G 14653208.41 14653208.51 14653208.62 0.0144 0.0085

Uranus 35407-04-07 04:05 G 14653296.55 14653296.67 14653296.79 0.0144 0.0063

Uranus 35407-07-04 07:55 G 14653384.70 14653384.83 14653384.96 0.0144 0.0042

Uranus 35407-09-30 11:31 G 14653472.85 14653472.98 14653473.12 0.0144 0.0021

Jupiter 35407-12-25 08:53 G 14653558.75 14653558.87 14653558.99 0.0520 0.0188

Uranus 35407-12-27 15:21 G 14653561.01 14653561.14 14653561.28 0.0144 0.0004

Jupiter 35408-03-23 14:09 G 14653648.01 14653648.09 14653648.17 0.0518 0.0405

Uranus 35408-03-24 19:12 G 14653649.17 14653649.30 14653649.44 0.0144 0.0024

Uranus 35408-06-20 23:02 G 14653737.34 14653737.46 14653737.59 0.0144 0.0046

Uranus 35408-09-17 02:53 G 14653825.51 14653825.62 14653825.75 0.0144 0.0069

Uranus 35408-12-14 06:57 G 14653913.68 14653913.79 14653913.89 0.0144 0.0091

Mars 35409-03-11 22:19 G 14654001.39 14654001.43 14654001.47 0.1877 0.1747

Uranus 35409-03-12 10:33 G 14654001.87 14654001.94 14654002.03 0.0144 0.0114

Moon 35409-06-05 04:05 G 14654086.56 14654086.67 14654086.77 0.2656 0.0746

Earth 35409-06-05 04:33 G 14654086.59 14654086.69 14654086.80 0.2654 0.0837 *

Uranus 35409-06-08 14:53 G 14654090.07 14654090.12 14654090.16 0.0144 0.0136

Saturn 35413-07-10 23:02 G 14655583.37 14655583.46 14655583.55 0.0271 0.0204

Saturn 35413-10-07 09:21 G 14655671.77 14655671.89 14655672.02 0.0270 0.0090

Saturn 35414-01-03 19:41 G 14655760.19 14655760.32 14655760.46 0.0269 0.0024

Jupiter 35414-02-19 17:45 G 14655807.09 14655807.24 14655807.38 0.0506 0.0308

Saturn 35414-04-02 06:14 G 14655848.65 14655848.76 14655848.88 0.0268 0.0135

Saturn 35414-06-29 16:48 G 14655937.15 14655937.20 14655937.25 0.0267 0.0248

Mars 35418-08-02 06:29 G 14657431.65 14657431.77 14657431.88 0.1884 0.0476

Jupiter 35419-10-13 13:26 G 14657868.96 14657869.06 14657869.16 0.0521 0.0333

Jupiter 35420-01-10 18:29 G 14657958.16 14657958.27 14657958.39 0.0518 0.0258

Moon 35422-06-07 21:36 G 14658837.34 14658837.40 14658837.46 0.2659 0.2132

Earth 35422-06-07 21:50 G 14658837.35 14658837.41 14658837.48 0.2654 0.2145 *

Jupiter 35426-03-09 01:26 G 14660207.42 14660207.56 14660207.70 0.0507 0.0309

Mars 35427-12-23 14:24 G 14660862.00 14660862.10 14660862.20 0.1891 0.0828

Moon 35429-05-31 22:33 G 14661387.36 14661387.44 14661387.53 0.2648 0.1586

Earth 35429-05-31 23:02 G 14661387.37 14661387.46 14661387.54 0.2654 0.1492 *

Saturn 35429-10-20 13:26 G 14661528.89 14661529.06 14661529.24 0.0293 0.0102

Saturn 35430-01-17 13:55 G 14661617.91 14661618.08 14661618.25 0.0294 0.0104

Jupiter 35431-08-01 17:45 G 14662179.19 14662179.24 14662179.28 0.0522 0.0483

Jupiter 35431-10-29 22:48 G 14662268.33 14662268.45 14662268.58 0.0519 0.0109

Earth 35432-12-02 18:29 G 14662668.11 14662668.27 14662668.43 0.2678 0.0500

Moon	35432-12-02 20:09 G	14662668.18	14662668.34	14662668.50	0.2681	0.0226	*
Mars	35436-07-19 09:07 G	14663992.72	14663992.88	14663993.03	0.1652	0.0478	
Jupiter	35437-12-25 22:33 G	14664517.26	14664517.44	14664517.62	0.0506	0.0109	
Venus	35442-03-12 05:45 G	14666054.68	14666054.74	14666054.80	0.3686	0.2959	
Moon	35442-06-03 15:36 G	14666138.04	14666138.15	14666138.26	0.2651	0.0252	
Earth	35442-06-03 16:05 G	14666138.07	14666138.17	14666138.28	0.2654	0.0215	*
Saturn	35442-11-28 01:12 G	14666315.50	14666315.55	14666315.62	0.0271	0.0239	
Saturn	35443-02-24 11:45 G	14666403.87	14666403.99	14666404.11	0.0270	0.0125	
Saturn	35443-05-23 22:05 G	14666492.29	14666492.42	14666492.56	0.0269	0.0013	
Jupiter	35443-08-18 03:21 G	14666578.51	14666578.64	14666578.77	0.0520	0.0035	
Saturn	35443-08-20 08:24 G	14666580.73	14666580.85	14666580.98	0.0268	0.0101	
Saturn	35443-11-16 18:57 G	14666669.21	14666669.29	14666669.37	0.0267	0.0213	
Earth	35445-12-06 02:53 G	14667419.58	14667419.62	14667419.66	0.2678	0.2578	
Mars	35445-12-09 11:17 G	14667422.83	14667422.97	14667423.11	0.1647	0.0844	
Uranus	35447-05-20 09:50 G	14667949.88	14667949.91	14667949.96	0.0135	0.0131	
Uranus	35447-08-16 16:48 G	14668038.09	14668038.20	14668038.33	0.0135	0.0105	
Venus	35447-09-25 22:19 G	14668078.33	14668078.43	14668078.54	0.3685	0.1040	
Uranus	35447-11-12 23:31 G	14668126.35	14668126.48	14668126.65	0.0134	0.0081	
Uranus	35448-02-09 06:29 G	14668214.61	14668214.77	14668214.95	0.0134	0.0056	
Uranus	35448-05-07 13:26 G	14668302.88	14668303.06	14668303.24	0.0134	0.0030	
Uranus	35448-08-03 20:09 G	14668391.16	14668391.34	14668391.53	0.0134	0.0006	
Uranus	35448-10-31 02:53 G	14668479.44	14668479.62	14668479.81	0.0134	0.0019	
Uranus	35449-01-27 09:21 G	14668567.72	14668567.89	14668568.07	0.0134	0.0043	
Uranus	35449-04-25 15:50 G	14668656.01	14668656.16	14668656.33	0.0134	0.0068	
Uranus	35449-07-22 22:19 G	14668744.31	14668744.43	14668744.58	0.0134	0.0092	
Jupiter	35449-10-13 19:12 G	14668827.12	14668827.30	14668827.48	0.0506	0.0098	
Uranus	35449-10-19 04:48 G	14668832.62	14668832.70	14668832.81	0.0134	0.0115	
Venus	35451-09-25 07:26 G	14669538.81	14669538.81	14669538.81	0.3686	0.3679	
Venus	35453-04-10 15:07 G	14670102.02	14670102.13	14670102.23	0.3684	0.0919	
Jupiter	35455-06-06 08:09 G	14670888.72	14670888.84	14670888.96	0.0521	0.0175	

Moon 35455-06-06 08:53 G 14670888.77 14670888.87 14670888.97 0.2657 0.0997 *

Earth 35455-06-06 09:21 G 14670888.79 14670888.89 14670888.99 0.2654 0.1100 *

Jupiter 35455-09-03 13:26 G 14670977.99 14670978.06 14670978.14 0.0519 0.0419

Venus 35457-04-10 11:17 G 14671562.83 14671562.97 14671563.11 0.3686 0.0699

Mars 35458-01-31 06:29 G 14671858.66 14671858.77 14671858.88 0.1884 0.0626

Venus 35458-10-25 07:55 G 14672125.77 14672125.83 14672125.90 0.3684 0.2938

Saturn 35459-03-09 09:21 G 14672260.75 14672260.89 14672261.04 0.0292 0.0179

Saturn 35459-06-06 10:05 G 14672349.73 14672349.92 14672350.10 0.0293 0.0027

Saturn 35459-09-03 10:05 G 14672438.81 14672438.92 14672439.04 0.0294 0.0231

Jupiter 35461-08-01 16:33 G 14673137.04 14673137.19 14673137.34 0.0505 0.0295

Earth 35462-05-30 10:33 G 14673438.91 14673438.94 14673438.97 0.2654 0.2503

Moon 35462-05-30 10:48 G 14673438.92 14673438.95 14673438.98 0.2648 0.2519 *

Neptune 35465-12-03 14:53 G 14674722.05 14674722.12 14674722.20 0.0089 0.0081

Neptune 35466-03-01 18:14 G 14674810.16 14674810.26 14674810.39 0.0089 0.0071

Neptune 35466-05-28 21:50 G 14674898.28 14674898.41 14674898.56 0.0089 0.0060

Neptune 35466-08-25 01:12 G 14674986.41 14674986.55 14674986.72 0.0089 0.0050

Neptune 35466-11-21 04:48 G 14675074.54 14675074.70 14675074.88 0.0089 0.0039

Neptune 35467-02-17 08:24 G 14675162.67 14675162.85 14675163.03 0.0089 0.0028

Jupiter 35467-03-25 12:29 G 14675198.92 14675199.02 14675199.12 0.0521 0.0322

Neptune 35467-05-16 11:45 G 14675250.81 14675250.99 14675251.18 0.0089 0.0018

Jupiter 35467-06-22 17:31 G 14675288.13 14675288.23 14675288.34 0.0518 0.0270

Mars 35467-06-23 14:24 G 14675288.99 14675289.10 14675289.21 0.1891 0.0671

Neptune 35467-08-12 15:21 G 14675338.95 14675339.14 14675339.33 0.0089 0.0007

Neptune 35467-11-08 18:43 G 14675427.09 14675427.28 14675427.47 0.0089 0.0003

Neptune 35468-02-04 22:05 G 14675515.24 14675515.42 14675515.61 0.0089 0.0014

Neptune 35468-05-03 01:26 G 14675603.38 14675603.56 14675603.75 0.0089 0.0024

Moon 35468-06-08 02:24 G 14675639.56 14675639.60 14675639.65 0.2659 0.2365

Earth 35468-06-08 02:38 G 14675639.57 14675639.61 14675639.66 0.2654 0.2408 *

Neptune 35468-07-30 04:33 G 14675691.53 14675691.69 14675691.88 0.0089 0.0035

Neptune 35468-10-26 08:09 G 14675779.69 14675779.84 14675780.01 0.0089 0.0045

Neptune 35469-01-22 11:31 G 14675867.84 14675867.98 14675868.14 0.0089 0.0055

Neptune 35469-04-20 14:38 G 14675956.00 14675956.11 14675956.26 0.0089 0.0066

Neptune 35469-07-17 18:00 G 14676044.17 14676044.25 14676044.37 0.0089 0.0076

Neptune 35469-10-13 21:36 G 14676132.37 14676132.40 14676132.45 0.0089 0.0086

Saturn 35472-07-13 13:55 G 14677135.97 14677136.08 14677136.18 0.0271 0.0165

Saturn 35472-10-10 00:14 G 14677224.38 14677224.51 14677224.64 0.0270 0.0051

Saturn 35473-01-06 10:33 G 14677312.82 14677312.94 14677313.07 0.0269 0.0063

Saturn 35473-04-04 21:07 G 14677401.28 14677401.38 14677401.48 0.0268 0.0175

Jupiter 35473-05-20 13:12 G 14677447.03 14677447.05 14677447.08 0.0505 0.0500

Jupiter 35473-08-19 00:00 G 14677537.37 14677537.50 14677537.65 0.0507 0.0322

Moon 35475-06-02 03:21 G 14678189.54 14678189.64 14678189.73 0.2648 0.1223

Earth 35475-06-02 03:36 G 14678189.56 14678189.65 14678189.75 0.2654 0.1231 *

Mars 35476-01-18 09:36 G 14678419.76 14678419.90 14678420.05 0.1653 0.0682

Earth 35478-12-04 01:26 G 14679470.40 14679470.56 14679470.72 0.2678 0.0110

Moon 35478-12-04 03:07 G 14679470.47 14679470.63 14679470.79 0.2679 0.0214 *

Jupiter 35479-01-11 16:48 G 14679509.15 14679509.20 14679509.26 0.0521 0.0468

Jupiter 35479-04-10 21:50 G 14679598.29 14679598.41 14679598.54 0.0519 0.0123

Jupiter 35485-06-06 21:21 G 14681847.21 14681847.39 14681847.57 0.0507 0.0121

Mars 35485-06-09 11:45 G 14681849.85 14681849.99 14681850.14 0.1647 0.0642

Moon 35488-06-03 20:09 G 14682940.24 14682940.34 14682940.45 0.2653 0.0138

Earth 35488-06-03 20:53 G 14682940.26 14682940.37 14682940.48 0.2654 0.0071 *

Saturn 35488-07-26 07:55 G 14682992.73 14682992.83 14682992.94 0.0291 0.0235

Saturn 35488-10-23 08:38 G 14683081.67 14683081.86 14683082.04 0.0293 0.0031

Saturn 35489-01-20 08:38 G 14683170.72 14683170.86 14683171.01 0.0294 0.0175

Uranus 35490-08-05 23:31 G 14683733.42 14683733.48 14683733.55 0.0143 0.0125

Uranus 35490-11-02 03:07 G 14683821.55 14683821.63 14683821.73 0.0144 0.0104

Jupiter 35491-01-28 02:09 G 14683908.46 14683908.59 14683908.72 0.0520 0.0030

Uranus 35491-01-29 06:57 G 14683909.69 14683909.79 14683909.90 0.0144 0.0082

Uranus 35491-04-27 10:48 G 14683997.83 14683997.95 14683998.07 0.0144 0.0061

Uranus 35491-07-24 14:24 G 14684085.98 14684086.10 14684086.24 0.0144 0.0040

Uranus 35491-10-20 18:14 G 14684174.13 14684174.26 14684174.40 0.0144 0.0018

Uranus 35492-01-16 22:05 G 14684262.29 14684262.42 14684262.56 0.0144 0.0005

Uranus 35492-04-14 01:55 G 14684350.45 14684350.58 14684350.71 0.0144 0.0026

Uranus 35492-07-11 05:45 G 14684438.61 14684438.74 14684438.87 0.0144 0.0048

Uranus 35492-10-07 09:36 G 14684526.78 14684526.90 14684527.02 0.0144 0.0071

Uranus 35493-01-03 13:26 G 14684614.96 14684615.06 14684615.17 0.0144 0.0093

Uranus 35493-04-01 17:31 G 14684703.15 14684703.23 14684703.31 0.0144 0.0115

Uranus 35493-06-28 21:07 G 14684791.36 14684791.38 14684791.43 0.0144 0.0139

Jupiter 35497-03-25 18:14 G 14686157.08 14686157.26 14686157.44 0.0506 0.0082

Mars 35497-08-01 06:29 G 14686285.66 14686285.77 14686285.87 0.1884 0.0778

Venus 35498-10-17 03:21 G 14686727.56 14686727.64 14686727.73 0.3685 0.2287

Moon 35501-06-07 13:26 G 14687690.97 14687691.06 14687691.16 0.2657 0.1316

Earth 35501-06-07 14:09 G 14687691.00 14687691.09 14687691.18 0.2654 0.1367 *

Saturn 35501-12-01 16:33 G 14687868.10 14687868.19 14687868.28 0.0271 0.0197

Saturn 35502-02-28 02:53 G 14687956.49 14687956.62 14687956.74 0.0270 0.0083

Saturn 35502-05-27 13:12 G 14688044.92 14688045.05 14688045.18 0.0269 0.0030

Saturn 35502-08-23 23:45 G 14688133.37 14688133.49 14688133.60 0.0268 0.0143

Jupiter 35502-11-17 06:43 G 14688218.66 14688218.78 14688218.90 0.0521 0.0175

Saturn 35502-11-20 10:05 G 14688221.89 14688221.92 14688221.96 0.0267 0.0256

Jupiter 35503-02-14 12:00 G 14688307.92 14688308.00 14688308.07 0.0518 0.0419

Venus 35504-05-02 20:09 G 14688751.23 14688751.34 14688751.44 0.3685 0.0369

Mars 35506-12-23 14:38 G 14689715.99 14689716.11 14689716.22 0.1890 0.0507

Venus 35508-05-02 08:09 G 14690211.73 14690211.84 14690211.96 0.3686 0.2198

Moon 35508-05-31 15:21 G 14690241.08 14690241.14 14690241.19 0.2648 0.2200

Earth 35508-05-31 15:21 G 14690241.08 14690241.14 14690241.19 0.2654 0.2244 *

Jupiter 35509-01-12 14:38 G 14690466.97 14690467.11 14690467.27 0.0505 0.0290

Venus 35509-11-16 12:57 G 14690774.94 14690775.04 14690775.13 0.3684 0.1635

Earth 35511-12-02 23:31 G 14691521.41 14691521.48 14691521.54 0.2678 0.2455

Moon 35511-12-03 00:43 G 14691521.46 14691521.53 14691521.60 0.2683 0.2397 *

Venus 35513-11-16 11:45 G 14692235.88 14692235.99 14692236.11 0.3686 0.2099

Jupiter 35514-09-05 11:17 G 14692528.87 14692528.97 14692529.07 0.0521 0.0316

Jupiter 35514-12-03 16:33 G 14692618.08 14692618.19 14692618.30 0.0519 0.0277

Venus 35515-06-02 05:45 G 14692798.74 14692798.74 14692798.75 0.3683 0.3664

Mars 35515-07-20 10:19 G 14692846.79 14692846.93 14692847.06 0.1653 0.0878

Mars 35516-05-14 22:33 G 14693146.41 14693146.44 14693146.47 0.1897 0.1813

Saturn 35518-03-13 05:17 G 14693813.55 14693813.72 14693813.89 0.0292 0.0101

Saturn 35518-06-10 05:31 G 14693902.57 14693902.73 14693902.91 0.0293 0.0104

Jupiter 35520-10-31 11:45 G 14694776.95 14694776.99 14694777.04 0.0505 0.0490

Jupiter 35521-01-29 22:33 G 14694867.30 14694867.44 14694867.58 0.0507 0.0329

Moon 35521-06-03 07:55 G 14694991.74 14694991.83 14694991.93 0.2648 0.1081

Earth 35521-06-03 08:24 G 14694991.75 14694991.85 14694991.95 0.2654 0.0962 *

Earth 35524-12-05 08:09 G 14696272.69 14696272.84 14696273.00 0.2678 0.0676

Moon 35524-12-05 09:50 G 14696272.77 14696272.91 14696273.06 0.2678 0.1012 *

Mars 35524-12-09 12:29 G 14696276.86 14696277.02 14696277.18 0.1647 0.0442

Jupiter 35526-06-24 15:50 G 14696839.10 14696839.16 14696839.21 0.0521 0.0461

Jupiter 35526-09-21 20:53 G 14696928.24 14696928.37 14696928.49 0.0519 0.0129

Saturn 35531-04-20 18:29 G 14698600.21 14698600.27 14698600.34 0.0272 0.0236

Uranus 35531-06-10 16:33 G 14698651.13 14698651.19 14698651.26 0.0135 0.0126

Saturn 35531-07-18 05:02 G 14698688.59 14698688.71 14698688.83 0.0271 0.0121

Uranus 35531-09-06 23:17 G 14698739.36 14698739.47 14698739.61 0.0135 0.0101

Saturn 35531-10-14 15:21 G 14698777.01 14698777.14 14698777.28 0.0270 0.0012

Uranus 35531-12-04 06:14 G 14698827.61 14698827.76 14698827.92 0.0135 0.0076

Saturn 35532-01-11 01:55 G 14698865.46 14698865.58 14698865.70 0.0269 0.0106

Uranus 35532-03-01 13:12 G 14698915.88 14698916.05 14698916.23 0.0134 0.0051

Saturn 35532-04-08 12:14 G 14698953.94 14698954.01 14698954.09 0.0268 0.0221

Uranus 35532-05-28 19:55 G 14699004.15 14699004.33 14699004.52 0.0134 0.0026

Uranus 35532-08-25 02:53 G 14699092.43 14699092.62 14699092.80 0.0134 0.0003

Jupiter 35532-11-17 19:26 G 14699177.13 14699177.31 14699177.49 0.0507 0.0124

Uranus 35532-11-21 09:21 G 14699180.71 14699180.89 14699181.08 0.0134 0.0024

Uranus 35533-02-17 15:50 G 14699269.00 14699269.16 14699269.35 0.0134 0.0049

Uranus 35533-05-16 22:33 G 14699357.29 14699357.44 14699357.60 0.0134 0.0072

Uranus 35533-08-13 05:02 G 14699445.59 14699445.71 14699445.85 0.0134 0.0096

Uranus 35533-11-09 11:45 G 14699533.91 14699533.99 14699534.07 0.0134 0.0119

Moon 35534-06-06 00:57 G 14699742.43 14699742.54 14699742.65 0.2654 0.0296

Earth 35534-06-06 01:41 G 14699742.46 14699742.57 14699742.68 0.2654 0.0329 *

Mars 35537-01-31 06:29 G 14700712.67 14700712.77 14700712.87 0.1883 0.0935

Jupiter 35538-07-11 01:12 G 14701238.42 14701238.55 14701238.68 0.0519 0.0019

Jupiter 35544-09-05 16:33 G 14703487.01 14703487.19 14703487.37 0.0506 0.0079

Neptune 35546-03-26 00:43 G 14704053.52 14704053.53 14704053.57 0.0089 0.0087

Neptune 35546-06-22 01:55 G 14704141.54 14704141.58 14704141.66 0.0089 0.0080

Mars 35546-06-23 14:24 G 14704142.99 14704143.10 14704143.21 0.1890 0.0371

Neptune 35546-09-18 03:36 G 14704229.58 14704229.65 14704229.73 0.0089 0.0072

Neptune 35546-12-15 04:48 G 14704317.62 14704317.70 14704317.80 0.0089 0.0065

Neptune 35547-03-13 06:14 G 14704405.66 14704405.76 14704405.86 0.0089 0.0058

Moon 35547-06-08 18:29 G 14704493.18 14704493.27 14704493.35 0.2657 0.1523

Earth 35547-06-08 18:57 G 14704493.20 14704493.29 14704493.37 0.2654 0.1633 *

Neptune 35547-06-09 07:26 G 14704493.71 14704493.81 14704493.93 0.0089 0.0051

Saturn 35547-07-31 04:19 G 14704545.53 14704545.68 14704545.84 0.0292 0.0152

Neptune 35547-09-05 08:38 G 14704581.76 14704581.86 14704581.99 0.0089 0.0044

Saturn 35547-10-28 04:48 G 14704634.52 14704634.70 14704634.88 0.0293 0.0053

Neptune 35547-12-02 10:19 G 14704669.81 14704669.93 14704670.05 0.0088 0.0036

Saturn 35548-01-25 05:02 G 14704723.62 14704723.71 14704723.79 0.0294 0.0256

Neptune 35548-02-28 11:31 G 14704757.86 14704757.98 14704758.11 0.0088 0.0029

Neptune 35548-05-26 12:57 G 14704845.91 14704846.04 14704846.17 0.0088 0.0021

Neptune 35548-08-22 14:24 G 14704933.97 14704934.10 14704934.23 0.0088 0.0014

Neptune 35548-11-18 15:36 G 14705022.02 14705022.15 14705022.29 0.0088 0.0007

Neptune 35549-02-14 17:02 G 14705110.08 14705110.21 14705110.35 0.0088 0.0001

Neptune 35549-05-13 18:29 G 14705198.13 14705198.27 14705198.40 0.0088 0.0008

Neptune 35549-08-09 19:41 G 14705286.19 14705286.32 14705286.46 0.0088 0.0016

Neptune 35549-11-05 21:07 G 14705374.25 14705374.38 14705374.51 0.0088 0.0023

Venus 35549-11-08 08:38 G 14705376.83 14705376.86 14705376.89 0.3686 0.3508

Neptune 35550-02-01 22:19 G 14705462.31 14705462.43 14705462.57 0.0088 0.0031

Jupiter 35550-04-29 05:17 G 14705548.60 14705548.72 14705548.84 0.0520 0.0173

Neptune 35550-04-30 23:45 G 14705550.37 14705550.49 14705550.62 0.0088 0.0038

Jupiter 35550-07-27 10:33 G 14705637.87 14705637.94 14705638.01 0.0518 0.0420

Neptune 35550-07-28 00:57 G 14705638.44 14705638.54 14705638.67 0.0088 0.0046

Neptune 35550-10-24 02:38 G 14705726.50 14705726.61 14705726.72 0.0088 0.0052

Neptune 35551-01-20 04:05 G 14705814.57 14705814.67 14705814.77 0.0088 0.0060

Neptune 35551-04-18 05:17 G 14705902.64 14705902.72 14705902.81 0.0088 0.0067

Neptune 35551-07-15 06:43 G 14705990.72 14705990.78 14705990.86 0.0088 0.0075

Neptune 35551-10-11 07:55 G 14706078.80 14706078.83 14706078.89 0.0088 0.0083

Moon 35554-06-01 19:55 G 14707043.26 14707043.33 14707043.40 0.2647 0.2006

Earth 35554-06-01 19:55 G 14707043.26 14707043.33 14707043.40 0.2654 0.1979 *

Mars 35555-01-18 10:48 G 14707273.83 14707273.95 14707274.07 0.1653 0.1070

Venus 35555-05-25 01:12 G 14707400.45 14707400.55 14707400.64 0.3685 0.1603

Mars 35555-11-13 22:33 G 14707573.39 14707573.44 14707573.50 0.1897 0.1652

Jupiter 35556-06-24 13:12 G 14707796.91 14707797.05 14707797.21 0.0505 0.0282

Earth 35557-12-03 06:14 G 14708323.65 14708323.76 14708323.87 0.2678 0.1871

Moon 35557-12-03 07:41 G 14708323.69 14708323.82 14708323.94 0.2682 0.1615 *

Saturn 35560-09-06 21:36 G 14709332.37 14709332.40 14709332.43 0.0272 0.0265

Saturn 35560-12-04 07:55 G 14709420.72 14709420.83 14709420.94 0.0271 0.0151

Venus 35560-12-07 17:45 G 14709424.14 14709424.24 14709424.35 0.3684 0.0355

Saturn 35561-03-02 18:29 G 14709509.14 14709509.27 14709509.40 0.0270 0.0037

Saturn 35561-05-30 04:48 G 14709597.57 14709597.70 14709597.83 0.0269 0.0077

Saturn 35561-08-26 15:21 G 14709686.05 14709686.14 14709686.23 0.0268 0.0191

Jupiter 35562-02-15 09:36 G 14709858.80 14709858.90 14709859.00 0.0521 0.0320

Jupiter 35562-05-15 14:53 G 14709948.01 14709948.12 14709948.23 0.0519 0.0273

Pluto 35564-01-14 19:26 G 14710557.26 14710557.31 14710557.39 0.0069 0.0060

Pluto 35564-04-11 20:09 G 14710645.25 14710645.34 14710645.44 0.0069 0.0049

Mars 35564-06-09 12:57 G 14710703.88 14710704.04 14710704.20 0.1647 0.0251

Pluto 35564-07-08 20:38 G 14710733.26 14710733.36 14710733.47 0.0070 0.0039

Pluto 35564-10-04 21:07 G 14710821.27 14710821.38 14710821.51 0.0070 0.0030

Venus 35564-12-07 08:53 G 14710884.73 14710884.87 14710885.01 0.3686 0.0741

Pluto 35564-12-31 21:50 G 14710909.29 14710909.41 14710909.54 0.0070 0.0019

Pluto 35565-03-29 22:19 G 14710997.31 14710997.43 14710997.57 0.0070 0.0009

Pluto 35565-06-25 23:02 G 14711085.33 14711085.46 14711085.59 0.0070 0.0002

Pluto 35565-09-21 23:31 G 14711173.35 14711173.48 14711173.61 0.0070 0.0012

Pluto 35565-12-19 00:00 G 14711261.38 14711261.50 14711261.63 0.0070 0.0022

Pluto 35566-03-17 00:43 G 14711349.41 14711349.53 14711349.64 0.0070 0.0033

Pluto 35566-06-13 00:57 G 14711437.45 14711437.54 14711437.65 0.0070 0.0044

Venus 35566-06-23 10:33 G 14711447.86 14711447.94 14711448.03 0.3684 0.2357

Pluto 35566-09-09 01:41 G 14711525.49 14711525.57 14711525.66 0.0071 0.0054

Pluto 35566-12-06 02:09 G 14711613.55 14711613.59 14711613.65 0.0071 0.0065

Moon 35567-06-04 12:43 G 14711793.93 14711794.03 14711794.13 0.2649 0.0718

Earth 35567-06-04 13:12 G 14711793.95 14711794.05 14711794.15 0.2654 0.0698 *

Jupiter 35568-04-12 09:36 G 14712106.86 14712106.90 14712106.94 0.0505 0.0491

Jupiter 35568-07-11 20:24 G 14712197.21 14712197.35 14712197.49 0.0507 0.0327

Venus 35570-06-23 12:29 G 14712908.97 14712909.02 14712909.06 0.3687 0.3492

Earth 35570-12-06 15:07 G 14713074.98 14713075.13 14713075.27 0.2678 0.1263

Moon 35570-12-06 16:48 G 14713075.07 14713075.20 14713075.34 0.2677 0.1382 *

Mars 35573-10-30 15:21 G 14714134.09 14714134.14 14714134.19 0.1642 0.1559

Jupiter 35573-12-04 14:24 G 14714169.04 14714169.10 14714169.15 0.0522 0.0462

Jupiter 35574-03-03 19:26 G 14714258.19 14714258.31 14714258.43 0.0519 0.0130

Uranus 35574-05-31 03:07 G 14714346.61 14714346.63 14714346.66 0.0143 0.0141

Uranus 35574-08-27 06:43 G 14714434.72 14714434.78 14714434.86 0.0143 0.0120

Uranus 35574-11-23 10:33 G 14714522.85 14714522.94 14714523.04 0.0144 0.0098

Uranus 35575-02-19 14:09 G 14714610.98 14714611.09 14714611.21 0.0144 0.0077

Uranus 35575-05-18 18:00 G 14714699.13 14714699.25 14714699.37 0.0144 0.0056

Uranus 35575-08-14 21:36 G 14714787.28 14714787.40 14714787.54 0.0144 0.0035

Uranus 35575-11-11 01:26 G 14714875.43 14714875.56 14714875.70 0.0144 0.0013

Uranus 35576-02-07 05:17 G 14714963.59 14714963.72 14714963.86 0.0144 0.0009

Uranus 35576-05-05 09:07 G 14715051.75 14715051.88 14715052.01 0.0144 0.0031

Mars 35576-08-01 06:29 G 14715139.67 14715139.77 14715139.86 0.1883 0.1091

Uranus 35576-08-01 12:57 G 14715139.91 14715140.04 14715140.17 0.0144 0.0053

Uranus 35576-10-28 16:48 G 14715228.08 14715228.20 14715228.32 0.0144 0.0076

Saturn 35576-12-17 01:55 G 14715277.47 14715277.58 14715277.72 0.0291 0.0216

Uranus 35577-01-24 20:24 G 14715316.26 14715316.35 14715316.46 0.0144 0.0099

Saturn 35577-03-16 02:38 G 14715366.43 14715366.61 14715366.80 0.0292 0.0011

Uranus 35577-04-23 00:29 G 14715404.45 14715404.52 14715404.60 0.0144 0.0120

Saturn 35577-06-13 02:53 G 14715455.49 14715455.62 14715455.76 0.0293 0.0194

Uranus 35577-07-20 04:19 G 14715492.67 14715492.68 14715492.70 0.0144 0.0143

Jupiter 35580-04-29 17:31 G 14716507.05 14716507.23 14716507.41 0.0507 0.0127

Moon 35580-06-06 05:45 G 14716544.63 14716544.74 14716544.85 0.2655 0.0437

Earth 35580-06-06 06:29 G 14716544.66 14716544.77 14716544.87 0.2654 0.0601 *

Jupiter 35585-12-20 23:45 G 14718568.37 14718568.49 14718568.62 0.0519 0.0021

Mars 35585-12-22 14:24 G 14718569.99 14718570.10 14718570.22 0.1890 0.0212

Saturn 35590-04-23 10:19 G 14720152.84 14720152.93 14720153.03 0.0272 0.0187

Saturn 35590-07-20 20:53 G 14720241.24 14720241.37 14720241.50 0.0271 0.0072

Saturn 35590-10-17 07:12 G 14720329.67 14720329.80 14720329.94 0.0270 0.0044

Saturn 35591-01-13 17:45 G 14720418.13 14720418.24 14720418.35 0.0269 0.0157

Jupiter 35592-02-16 13:55 G 14720816.90 14720817.08 14720817.27 0.0506 0.0084

Moon 35593-06-08 23:17 G 14721295.39 14721295.47 14721295.54 0.2659 0.1900

Earth 35593-06-08 23:45 G 14721295.41 14721295.49 14721295.56 0.2653 0.1901 *

Mars 35594-07-19 11:17 G 14721700.87 14721700.97 14721701.08 0.1653 0.1272

Mars 35595-05-14 22:33 G 14722000.37 14722000.44 14722000.51 0.1897 0.1508

Jupiter 35597-10-09 04:05 G 14722878.55 14722878.67 14722878.79 0.0520 0.0165

Jupiter 35598-01-06 09:21 G 14722967.82 14722967.89 14722967.96 0.0518 0.0427

Moon 35600-06-02 00:29 G 14723845.44 14723845.52 14723845.61 0.2647 0.1732

Earth 35600-06-02 00:43 G 14723845.45 14723845.53 14723845.61 0.2654 0.1715 *

Earth 35603-12-04 13:12 G 14725125.91 14725126.05 14725126.19 0.2678 0.1273

Moon 35603-12-04 14:53 G 14725125.97 14725126.12 14725126.26 0.2680 0.1115 *

Jupiter 35603-12-05 10:48 G 14725126.80 14725126.95 14725127.11 0.0506 0.0287

Mars 35603-12-09 13:41 G 14725130.91 14725131.07 14725131.23 0.1647 0.0045

Saturn 35606-05-06 01:55 G 14726009.50 14726009.58 14726009.67 0.0291 0.0260

Venus 35606-06-15 06:14 G 14726049.70 14726049.76 14726049.83 0.3685 0.2837

Saturn 35606-08-03 02:38 G 14726098.43 14726098.61 14726098.79 0.0292 0.0055

Saturn 35606-10-31 02:53 G 14726187.46 14726187.62 14726187.77 0.0293 0.0149

Jupiter 35609-07-28 08:09 G 14727188.74 14727188.84 14727188.94 0.0521 0.0320

Jupiter 35609-10-25 13:12 G 14727277.94 14727278.05 14727278.16 0.0519 0.0271

Venus 35611-12-29 22:48 G 14728073.35 14728073.45 14728073.56 0.3685 0.0924

Mars 35613-04-30 15:50 G 14728561.07 14728561.16 14728561.24 0.1642 0.1374

Moon 35613-06-04 17:17 G 14728596.12 14728596.22 14728596.33 0.2651 0.0546

Earth 35613-06-04 18:00 G 14728596.14 14728596.25 14728596.36 0.2654 0.0431 *

Uranus 35615-06-30 23:17 G 14729352.39 14729352.47 14729352.55 0.0135 0.0121

Jupiter 35615-09-23 07:41 G 14729436.78 14729436.82 14729436.86 0.0505 0.0490

Uranus 35615-09-27 06:00 G 14729440.63 14729440.75 14729440.89 0.0135 0.0096

Jupiter 35615-12-22 18:29 G 14729527.14 14729527.27 14729527.41 0.0507 0.0330

Uranus 35615-12-24 12:57 G 14729528.89 14729529.04 14729529.21 0.0135 0.0071

Mars 35616-01-31 06:29 G 14729566.68 14729566.77 14729566.85 0.1883 0.1239

Uranus 35616-03-21 19:55 G 14729617.16 14729617.33 14729617.51 0.0134 0.0046

Uranus 35616-06-18 02:38 G 14729705.43 14729705.61 14729705.80 0.0134 0.0021

Uranus 35616-09-14 09:36 G 14729793.71 14729793.90 14729794.08 0.0134 0.0005

Earth 35616-12-06 21:50 G 14729877.29 14729877.41 14729877.52 0.2678 0.1832

Moon 35616-12-06 23:31 G 14729877.39 14729877.48 14729877.58 0.2677 0.2173 *

Uranus 35616-12-11 16:05 G 14729881.99 14729882.17 14729882.36 0.0134 0.0029

Uranus 35617-03-09 22:33 G 14729970.28 14729970.44 14729970.62 0.0134 0.0053

Uranus 35617-06-06 05:17 G 14730058.58 14730058.72 14730058.88 0.0134 0.0077

Venus 35617-07-14 15:36 G 14730097.05 14730097.15 14730097.25 0.3684 0.1055

Uranus 35617-09-02 11:45 G 14730146.88 14730146.99 14730147.12 0.0134 0.0101

Uranus 35617-11-29 18:29 G 14730235.21 14730235.27 14730235.34 0.0134 0.0124

Saturn 35619-09-10 13:26 G 14730884.99 14730885.06 14730885.15 0.0272 0.0214

Saturn 35619-12-08 00:00 G 14730973.38 14730973.50 14730973.62 0.0271 0.0099

Saturn 35620-03-05 10:33 G 14731061.80 14731061.94 14731062.07 0.0270 0.0017

Saturn 35620-06-01 20:53 G 14731150.26 14731150.37 14731150.49 0.0269 0.0130

Saturn 35620-08-29 07:26 G 14731238.76 14731238.81 14731238.87 0.0268 0.0244

Jupiter 35621-05-16 12:29 G 14731498.97 14731499.02 14731499.07 0.0521 0.0469

Venus 35621-07-14 09:36 G 14731557.76 14731557.90 14731558.04 0.3686 0.0724

Jupiter 35621-08-13 17:31 G 14731588.11 14731588.23 14731588.36 0.0519 0.0122

Venus 35623-01-28 08:24 G 14732120.80 14732120.85 14732120.91 0.3684 0.3082

Mars 35625-06-22 14:38 G 14732996.99 14732997.11 14732997.22 0.1890 0.0086

Moon 35626-06-07 10:33 G 14733346.83 14733346.94 14733347.04 0.2655 0.0829

Earth 35626-06-07 11:02 G 14733346.86 14733346.96 14733347.07 0.2654 0.0871 *

Jupiter 35627-10-10 14:53 G 14733836.95 14733837.12 14733837.30 0.0506 0.0120

Neptune 35630-06-04 10:05 G 14734804.89 14734804.92 14734804.96 0.0089 0.0087

Neptune 35630-08-31 13:12 G 14734892.98 14734893.05 14734893.17 0.0089 0.0077

Neptune 35630-11-27 17:02 G 14734981.09 14734981.21 14734981.35 0.0089 0.0066

Neptune 35631-02-23 20:24 G 14735069.22 14735069.35 14735069.51 0.0089 0.0056

Neptune 35631-05-23 00:00 G 14735157.35 14735157.50 14735157.68 0.0089 0.0045

Neptune 35631-08-19 03:36 G 14735245.48 14735245.65 14735245.83 0.0089 0.0034

Neptune 35631-11-15 06:57 G 14735333.62 14735333.79 14735333.98 0.0089 0.0024

Neptune 35632-02-11 10:33 G 14735421.76 14735421.94 14735422.13 0.0089 0.0013

Neptune 35632-05-09 14:09 G 14735509.90 14735510.09 14735510.28 0.0089 0.0003

Neptune 35632-08-05 17:31 G 14735598.04 14735598.23 14735598.42 0.0089 0.0008

Neptune 35632-11-01 20:53 G 14735686.19 14735686.37 14735686.56 0.0089 0.0019

Neptune 35633-01-29 00:14 G 14735774.34 14735774.51 14735774.70 0.0089 0.0029

Neptune 35633-04-27 03:50 G 14735862.49 14735862.66 14735862.83 0.0089 0.0039

Jupiter 35633-06-01 22:05 G 14735898.29 14735898.42 14735898.55 0.0520 0.0023

Neptune 35633-07-24 06:57 G 14735950.64 14735950.79 14735950.96 0.0089 0.0050

Neptune 35633-10-20 10:19 G 14736038.80 14736038.93 14736039.08 0.0089 0.0060

Neptune 35634-01-16 13:55 G 14736126.97 14736127.08 14736127.19 0.0089 0.0070

Mars 35634-01-17 12:00 G 14736127.93 14736128.00 14736128.07 0.1653 0.1476

Neptune 35634-04-14 16:48 G 14736215.14 14736215.20 14736215.30 0.0089 0.0081

Mars 35634-11-12 22:33 G 14736427.36 14736427.44 14736427.52 0.1897 0.1355

Saturn 35635-12-21 01:12 G 14736830.38 14736830.55 14736830.72 0.0292 0.0111

Saturn 35636-03-19 01:41 G 14736919.40 14736919.57 14736919.74 0.0293 0.0094

Moon 35639-06-10 04:05 G 14738097.61 14738097.67 14738097.74 0.2660 0.2077

Earth 35639-06-10 04:19 G 14738097.62 14738097.68 14738097.75 0.2653 0.2168 *

Jupiter 35639-07-29 11:45 G 14738146.81 14738146.99 14738147.17 0.0506 0.0084

Mars 35643-06-09 14:09 G 14739557.93 14739558.09 14739558.26 0.1647 0.0161

Jupiter 35645-03-21 02:38 G 14740208.49 14740208.61 14740208.73 0.0520 0.0167

Jupiter 35645-06-18 07:41 G 14740297.75 14740297.82 14740297.90 0.0518 0.0425

Moon 35646-06-03 05:17 G 14740647.63 14740647.72 14740647.81 0.2647 0.1471

Earth 35646-06-03 05:31 G 14740647.64 14740647.73 14740647.82 0.2654 0.1454 *

Saturn 35649-01-27 16:19 G 14741617.13 14741617.18 14741617.23 0.0272 0.0246

Saturn 35649-04-26 02:38 G 14741705.50 14741705.61 14741705.73 0.0271 0.0132

Saturn 35649-07-23 13:12 G 14741793.92 14741794.05 14741794.18 0.0270 0.0017

Saturn 35649-10-19 23:31 G 14741882.36 14741882.48 14741882.61 0.0270 0.0098

Pluto 35649-11-23 06:14 G 14741916.68 14741916.76 14741916.86 0.0075 0.0066

Earth 35649-12-04 19:55 G 14741928.18 14741928.33 14741928.49 0.2678 0.0686

Moon 35649-12-04 21:50 G 14741928.25 14741928.41 14741928.57 0.2679 0.0453 *

Saturn 35650-01-16 10:05 G 14741970.84 14741970.92 14741971.00 0.0269 0.0212

Pluto 35650-02-19 08:53 G 14742004.72 14742004.87 14742005.03 0.0075 0.0047

Pluto 35650-05-18 11:31 G 14742092.80 14742092.98 14742093.17 0.0075 0.0028

Pluto 35650-08-14 14:24 G 14742180.90 14742181.10 14742181.29 0.0075 0.0009

Pluto 35650-11-10 16:48 G 14742269.01 14742269.20 14742269.40 0.0074 0.0010

Pluto 35651-02-06 19:12 G 14742357.13 14742357.30 14742357.50 0.0074 0.0029

Pluto 35651-05-05 21:36 G 14742445.27 14742445.40 14742445.57 0.0074 0.0048

Jupiter 35651-05-17 07:55 G 14742456.68 14742456.83 14742456.98 0.0506 0.0299

Pluto 35651-08-02 00:29 G 14742533.44 14742533.52 14742533.62 0.0074 0.0066

Mars 35652-10-29 16:33 G 14742988.07 14742988.19 14742988.30 0.1642 0.1163

Mars 35655-08-01 06:29 G 14743993.69 14743993.77 14743993.85 0.1883 0.1401

Jupiter 35657-01-07 06:57 G 14744518.69 14744518.79 14744518.89 0.0520 0.0315

Jupiter 35657-04-06 12:00 G 14744607.89 14744608.00 14744608.11 0.0518 0.0276

Uranus 35658-06-20 10:33 G 14745047.91 14745047.94 14745047.99 0.0143 0.0135

Uranus 35658-09-16 14:09 G 14745136.02 14745136.09 14745136.18 0.0144 0.0114

Uranus 35658-12-13 18:00 G 14745224.15 14745224.25 14745224.36 0.0144 0.0092

Uranus 35659-03-11 21:50 G 14745312.29 14745312.41 14745312.53 0.0144 0.0071

Moon 35659-06-05 22:05 G 14745398.31 14745398.42 14745398.53 0.2652 0.0256

Earth 35659-06-05 22:48 G 14745398.34 14745398.45 14745398.55 0.2654 0.0190 *

Uranus 35659-06-08 01:26 G 14745400.44 14745400.56 14745400.69 0.0144 0.0050

Uranus 35659-09-04 05:17 G 14745488.59 14745488.72 14745488.85 0.0144 0.0028

Uranus 35659-12-01 09:07 G 14745576.74 14745576.88 14745577.01 0.0144 0.0007

Uranus 35660-02-27 12:43 G 14745664.90 14745665.03 14745665.17 0.0144 0.0017

Uranus 35660-05-25 16:33 G 14745753.06 14745753.19 14745753.32 0.0144 0.0038

Uranus 35660-08-21 20:24 G 14745841.23 14745841.35 14745841.48 0.0144 0.0060

Uranus 35660-11-18 00:14 G 14745929.40 14745929.51 14745929.63 0.0144 0.0082

Uranus 35661-02-14 04:19 G 14746017.58 14746017.68 14746017.77 0.0144 0.0105

Uranus 35661-05-13 07:55 G 14746105.78 14746105.83 14746105.90 0.0144 0.0127

Earth 35662-12-08 04:48 G 14746679.63 14746679.70 14746679.76 0.2678 0.2421

Moon 35662-12-08 06:29 G 14746679.72 14746679.77 14746679.82 0.2677 0.2544 *

Venus 35663-01-20 04:05 G 14746722.58 14746722.67 14746722.75 0.3685 0.2152

Jupiter 35663-03-05 04:33 G 14746766.68 14746766.69 14746766.71 0.0505 0.0503

Jupiter 35663-06-03 15:36 G 14746857.01 14746857.15 14746857.29 0.0507 0.0319

Mars 35664-12-21 14:24 G 14747423.98 14747424.10 14747424.22 0.1890 0.0090

Saturn 35665-05-09 01:26 G 14747562.40 14747562.56 14747562.72 0.0291 0.0152

Saturn 35665-08-06 01:55 G 14747651.40 14747651.58 14747651.76 0.0292 0.0053

Saturn 35665-11-03 01:55 G 14747740.50 14747740.58 14747740.67 0.0293 0.0256

Venus 35668-08-04 20:38 G 14748746.25 14748746.36 14748746.47 0.3685 0.0220

Jupiter 35668-10-26 10:48 G 14748828.90 14748828.95 14748829.00 0.0521 0.0473

Jupiter 35669-01-23 15:50 G 14748918.04 14748918.16 14748918.28 0.0519 0.0117

Moon 35672-06-07 15:21 G 14750149.04 14750149.14 14750149.24 0.2656 0.1001

Earth 35672-06-07 15:50 G 14750149.06 14750149.16 14750149.26 0.2653 0.1133 *

Venus 35672-08-04 06:43 G 14750206.66 14750206.78 14750206.89 0.3686 0.2203

Venus 35674-02-18 13:26 G 14750769.96 14750770.06 14750770.15 0.3684 0.1775

Mars 35674-05-13 22:33 G 14750854.35 14750854.44 14750854.53 0.1897 0.1198

Jupiter 35675-03-22 12:43 G 14751166.85 14751167.03 14751167.21 0.0507 0.0117

Venus 35678-02-18 10:19 G 14752230.82 14752230.93 14752231.04 0.3686 0.2147

Saturn 35678-06-16 19:41 G 14752349.31 14752349.32 14752349.34 0.0272 0.0270

Saturn 35678-09-13 06:14 G 14752437.65 14752437.76 14752437.87 0.0271 0.0155

Saturn 35678-12-10 16:33 G 14752526.06 14752526.19 14752526.32 0.0270 0.0041

Saturn 35679-03-09 03:07 G 14752614.50 14752614.63 14752614.76 0.0269 0.0074

Moon 35679-06-01 17:17 G 14752699.17 14752699.22 14752699.26 0.2647 0.2396

Earth 35679-06-01 17:02 G 14752699.18 14752699.21 14752699.25 0.2654 0.2470 *

Saturn 35679-06-05 13:26 G 14752702.97 14752703.06 14752703.16 0.0269 0.0189

Jupiter 35680-11-11 20:09 G 14753228.21 14753228.34 14753228.46 0.0520 0.0036

Mars 35682-12-08 14:53 G 14753984.96 14753985.12 14753985.28 0.1648 0.0349

Moon 35685-06-10 08:53 G 14754899.84 14754899.87 14754899.91 0.2660 0.2473

Earth 35685-06-10 09:07 G 14754899.84 14754899.88 14754899.92 0.2653 0.2437 *

Jupiter 35687-01-08 08:53 G 14755476.69 14755476.87 14755477.05 0.0506 0.0096

Mars 35692-04-29 17:02 G 14757415.08 14757415.21 14757415.34 0.1642 0.0966

Moon 35692-06-03 09:50 G 14757449.82 14757449.91 14757450.01 0.2648 0.1267

Earth 35692-06-03 10:19 G 14757449.83 14757449.93 14757450.02 0.2654 0.1191 *

Jupiter 35692-08-31 00:29 G 14757538.40 14757538.52 14757538.64 0.0521 0.0179

Jupiter 35692-11-28 05:45 G 14757627.67 14757627.74 14757627.82 0.0518 0.0415

Saturn 35694-09-26 00:57 G 14758294.41 14758294.54 14758294.68 0.0291 0.0201

Saturn 35694-12-24 01:26 G 14758383.38 14758383.56 14758383.75 0.0292 0.0006

Mars 35695-01-30 06:29 G 14758420.70 14758420.77 14758420.83 0.1883 0.1549

Saturn 35695-03-23 01:41 G 14758472.44 14758472.57 14758472.70 0.0293 0.0208

Earth 35695-12-06 02:53 G 14758730.46 14758730.62 14758730.78 0.2678 0.0104

Moon 35695-12-06 04:48 G 14758730.54 14758730.70 14758730.86 0.2679 0.0165 *

Jupiter 35698-10-27 05:31 G 14759786.58 14759786.73 14759786.88 0.0505 0.0303

Uranus 35699-07-21 06:14 G 14760053.68 14760053.76 14760053.87 0.0135 0.0115

Uranus 35699-10-17 13:26 G 14760141.92 14760142.06 14760142.20 0.0135 0.0089

Uranus 35700-01-13 20:24 G 14760230.18 14760230.35 14760230.51 0.0134 0.0064

Uranus 35700-04-12 03:07 G 14760318.45 14760318.63 14760318.81 0.0134 0.0039

Uranus 35700-07-09 09:50 G 14760406.73 14760406.91 14760407.10 0.0134 0.0014

Uranus 35700-10-05 16:33 G 14760495.01 14760495.19 14760495.38 0.0134 0.0012

Uranus 35701-01-01 23:17 G 14760583.30 14760583.47 14760583.66 0.0134 0.0035

Uranus 35701-03-31 06:00 G 14760671.59 14760671.75 14760671.92 0.0134 0.0059

Uranus 35701-06-27 12:29 G 14760759.88 14760760.02 14760760.17 0.0134 0.0084

Uranus 35701-09-23 19:12 G 14760848.19 14760848.30 14760848.41 0.0134 0.0107

Uranus 35701-12-21 01:26 G 14760936.54 14760936.56 14760936.61 0.0134 0.0131

Jupiter 35704-06-20 05:02 G 14761848.62 14761848.71 14761848.81 0.0521 0.0322

Mars 35704-06-22 14:24 G 14761850.99 14761851.10 14761851.22 0.1890 0.0252

Jupiter 35704-09-17 10:19 G 14761937.82 14761937.93 14761938.04 0.0518 0.0270

Moon 35705-06-07 02:38 G 14762200.51 14762200.61 14762200.72 0.2652 0.0110

Earth 35705-06-07 03:21 G 14762200.54 14762200.64 14762200.75 0.2653 0.0127 *

Saturn 35708-02-01 08:53 G 14763169.78 14763169.87 14763169.97 0.0272 0.0187

Saturn 35708-04-29 19:26 G 14763258.18 14763258.31 14763258.44 0.0271 0.0072

Saturn 35708-07-27 06:00 G 14763346.62 14763346.75 14763346.88 0.0270 0.0043

Saturn 35708-10-23 16:19 G 14763435.08 14763435.18 14763435.29 0.0269 0.0158

Jupiter 35710-11-14 12:14 G 14764186.87 14764187.01 14764187.16 0.0507 0.0303

Neptune 35710-12-22 00:29 G 14764224.49 14764224.52 14764224.58 0.0089 0.0084

Neptune 35711-03-20 02:09 G 14764312.52 14764312.59 14764312.66 0.0089 0.0076

Neptune 35711-06-16 03:21 G 14764400.56 14764400.64 14764400.73 0.0089 0.0069

Neptune 35711-09-12 04:33 G 14764488.60 14764488.69 14764488.79 0.0089 0.0062

Neptune 35711-12-09 06:00 G 14764576.65 14764576.75 14764576.86 0.0089 0.0054

Neptune 35712-03-06 07:12 G 14764664.70 14764664.80 14764664.92 0.0088 0.0047

Neptune 35712-06-02 08:38 G 14764752.75 14764752.86 14764752.98 0.0088 0.0040

Neptune 35712-08-29 10:05 G 14764840.80 14764840.92 14764841.04 0.0088 0.0033

Neptune 35712-11-25 11:17 G 14764928.85 14764928.97 14764929.10 0.0088 0.0026

Neptune 35713-02-21 12:43 G 14765016.90 14765017.03 14765017.16 0.0088 0.0018

Neptune 35713-05-20 14:09 G 14765104.95 14765105.09 14765105.22 0.0088 0.0011

Neptune 35713-08-16 15:21 G 14765193.01 14765193.14 14765193.28 0.0088 0.0004

Neptune 35713-11-12 16:48 G 14765281.07 14765281.20 14765281.34 0.0088 0.0004

Mars 35713-11-12 22:33 G 14765281.34 14765281.44 14765281.54 0.1896 0.1048 *

Neptune 35714-02-08 18:14 G 14765369.12 14765369.26 14765369.39 0.0088 0.0011

Venus 35714-02-11 09:07 G 14765371.84 14765371.88 14765371.92 0.3686 0.3383

Neptune 35714-05-07 19:26 G 14765457.18 14765457.31 14765457.45 0.0088 0.0019

Neptune 35714-08-03 20:53 G 14765545.24 14765545.37 14765545.50 0.0088 0.0026

Neptune 35714-10-30 22:05 G 14765633.30 14765633.42 14765633.55 0.0088 0.0034

Neptune 35715-01-26 23:31 G 14765721.37 14765721.48 14765721.61 0.0088 0.0041

Neptune 35715-04-25 00:57 G 14765809.43 14765809.54 14765809.66 0.0088 0.0048

Neptune 35715-07-22 02:24 G 14765897.50 14765897.60 14765897.70 0.0088 0.0056

Neptune 35715-10-18 03:36 G 14765985.56 14765985.65 14765985.75 0.0088 0.0063

Neptune 35716-01-14 05:02 G 14766073.64 14766073.71 14766073.80 0.0088 0.0071

Jupiter 35716-04-08 09:21 G 14766158.84 14766158.89 14766158.95 0.0521 0.0470

Neptune 35716-04-11 06:14 G 14766161.71 14766161.76 14766161.84 0.0088 0.0078

Jupiter 35716-07-06 14:38 G 14766247.98 14766248.11 14766248.23 0.0519 0.0122

Neptune 35716-07-08 07:41 G 14766249.80 14766249.82 14766249.86 0.0088 0.0086

Moon 35718-06-09 20:09 G 14766951.25 14766951.34 14766951.43 0.2657 0.1345

Earth 35718-06-09 20:38 G 14766951.27 14766951.36 14766951.45 0.2653 0.1393 *

Venus 35719-08-28 01:41 G 14767395.47 14767395.57 14767395.67 0.3685 0.1472

Mars 35722-06-09 15:21 G 14768411.99 14768412.14 14768412.30 0.1648 0.0551

Jupiter 35722-09-02 09:21 G 14768496.71 14768496.89 14768497.07 0.0507 0.0099

Saturn 35724-02-14 01:12 G 14769026.45 14769026.55 14769026.65 0.0291 0.0242

Saturn 35724-05-13 01:41 G 14769115.39 14769115.57 14769115.76 0.0292 0.0037

Saturn 35724-08-10 01:55 G 14769204.44 14769204.58 14769204.73 0.0293 0.0167

Venus 35725-03-12 18:29 G 14769419.16 14769419.27 14769419.37 0.3685 0.0505

Earth 35725-06-02 21:50 G 14769501.35 14769501.41 14769501.47 0.2654 0.2204

Moon 35725-06-02 21:50 G 14769501.36 14769501.41 14769501.47 0.2647 0.2247 *

Jupiter 35728-04-24 18:14 G 14770558.13 14770558.26 14770558.39 0.0520 0.0040

Earth 35728-12-04 00:43 G 14770781.52 14770781.53 14770781.54 0.2678 0.2670

Moon 35728-12-04 02:09 G 14770781.52 14770781.59 14770781.66 0.2681 0.2389 *

Venus 35729-03-12 07:26 G 14770879.67 14770879.81 14770879.95 0.3686 0.0721

Venus 35730-09-26 11:17 G 14771442.89 14771442.97 14771443.04 0.3684 0.2497

Moon 35731-06-12 13:41 G 14771702.07 14771702.07 14771702.08 0.2660 0.2640

Mars 35731-10-30 17:31 G 14771842.09 14771842.23 14771842.38 0.1643 0.0776

Jupiter 35734-06-21 06:14 G 14772806.58 14772806.76 14772806.94 0.0506 0.0103

Mars 35734-08-01 06:29 G 14772847.72 14772847.77 14772847.81 0.1883 0.1708

Venus 35734-09-26 10:48 G 14772903.92 14772903.95 14772903.99 0.3687 0.3548

Saturn 35737-06-20 12:43 G 14773901.95 14773902.03 14773902.11 0.0272 0.0209

Saturn 35737-09-16 23:02 G 14773990.34 14773990.46 14773990.59 0.0271 0.0094

Saturn 35737-12-14 09:36 G 14774078.77 14774078.90 14774079.03 0.0270 0.0021

Saturn 35738-03-12 19:55 G 14774167.22 14774167.33 14774167.45 0.0269 0.0136

Moon 35738-06-05 14:24 G 14774252.00 14774252.10 14774252.21 0.2649 0.0953

Earth 35738-06-05 14:53 G 14774252.02 14774252.12 14774252.23 0.2654 0.0936 *

Saturn 35738-06-09 06:29 G 14774255.73 14774255.77 14774255.82 0.0268 0.0250

Jupiter 35740-02-11 22:19 G 14774868.32 14774868.43 14774868.55 0.0520 0.0192

Jupiter 35740-05-11 03:36 G 14774957.57 14774957.65 14774957.73 0.0518 0.0402

Earth 35741-12-07 09:36 G 14775532.75 14775532.90 14775533.06 0.2678 0.0489

Moon 35741-12-07 11:31 G 14775532.83 14775532.98 14775533.14 0.2679 0.0681 *

Uranus 35742-07-11 18:14 G 14775749.21 14775749.26 14775749.32 0.0144 0.0128

Uranus 35742-10-07 21:50 G 14775837.33 14775837.41 14775837.51 0.0144 0.0107

Uranus 35743-01-04 01:26 G 14775925.46 14775925.56 14775925.68 0.0144 0.0086

Uranus 35743-04-02 05:17 G 14776013.61 14776013.72 14776013.84 0.0144 0.0064

Uranus 35743-06-29 09:07 G 14776101.75 14776101.88 14776102.01 0.0144 0.0043

Uranus 35743-09-25 12:57 G 14776189.90 14776190.04 14776190.17 0.0144 0.0021

Mars 35743-12-22 14:38 G 14776277.99 14776278.11 14776278.22 0.1889 0.0420

Uranus 35743-12-22 16:33 G 14776278.06 14776278.19 14776278.33 0.0144 0.0005 *

Uranus 35744-03-19 20:24 G 14776366.22 14776366.35 14776366.49 0.0144 0.0023

Uranus 35744-06-16 00:14 G 14776454.38 14776454.51 14776454.64 0.0144 0.0045

Uranus 35744-09-12 04:05 G 14776542.55 14776542.67 14776542.79 0.0144 0.0067

Uranus 35744-12-09 07:55 G 14776630.73 14776630.83 14776630.94 0.0144 0.0089

Uranus 35745-03-07 11:31 G 14776718.91 14776718.98 14776719.08 0.0144 0.0113

Uranus 35745-06-03 15:36 G 14776807.11 14776807.15 14776807.20 0.0144 0.0135

Jupiter 35746-04-09 02:24 G 14777116.46 14777116.60 14777116.75 0.0505 0.0315

Jupiter 35746-07-08 12:57 G 14777207.02 14777207.04 14777207.07 0.0507 0.0502

Moon 35751-06-08 07:26 G 14779002.70 14779002.81 14779002.92 0.2652 0.0252

Earth 35751-06-08 08:09 G 14779002.73 14779002.84 14779002.95 0.2653 0.0360 *

Jupiter 35751-12-01 02:53 G 14779178.52 14779178.62 14779178.72 0.0521 0.0337

Jupiter 35752-02-28 07:55 G 14779267.72 14779267.83 14779267.94 0.0519 0.0256

Mars 35753-05-13 22:33 G 14779708.33 14779708.44 14779708.54 0.1896 0.0907

Saturn 35753-07-03 00:57 G 14779758.53 14779758.54 14779758.57 0.0291 0.0288

Saturn 35753-09-30 01:41 G 14779847.40 14779847.57 14779847.75 0.0292 0.0083

Saturn 35753-12-28 01:55 G 14779936.42 14779936.58 14779936.75 0.0293 0.0123

Jupiter 35758-04-26 09:50 G 14781516.76 14781516.91 14781517.06 0.0507 0.0296

Mars 35761-12-08 16:05 G 14782839.03 14782839.17 14782839.31 0.1648 0.0750

Jupiter 35763-09-19 07:26 G 14783488.77 14783488.81 14783488.86 0.0521 0.0479

Jupiter 35763-12-17 12:29 G 14783577.90 14783578.02 14783578.15 0.0519 0.0113

Moon 35764-06-10 00:57 G 14783753.45 14783753.54 14783753.63 0.2659 0.1595

Earth 35764-06-10 01:26 G 14783753.47 14783753.56 14783753.64 0.2653 0.1660 *

Saturn 35766-11-07 15:50 G 14784634.10 14784634.16 14784634.22 0.0272 0.0237

Saturn 35767-02-04 02:09 G 14784722.47 14784722.59 14784722.71 0.0271 0.0122

Saturn 35767-05-03 12:43 G 14784810.89 14784811.03 14784811.16 0.0270 0.0010

Saturn 35767-07-30 23:02 G 14784899.34 14784899.46 14784899.58 0.0269 0.0107

Saturn 35767-10-27 09:36 G 14784987.83 14784987.90 14784987.97 0.0269 0.0221

Jupiter 35770-02-12 05:45 G 14785826.56 14785826.74 14785826.93 0.0507 0.0082

Venus 35770-09-18 06:57 G 14786044.72 14786044.79 14786044.86 0.3686 0.2704

Mars 35771-04-30 18:14 G 14786269.11 14786269.26 14786269.42 0.1643 0.0568

Moon 35771-06-04 02:38 G 14786303.53 14786303.61 14786303.68 0.2647 0.1885

Earth 35771-06-04 02:38 G 14786303.54 14786303.61 14786303.68 0.2654 0.1945 *

Mars 35774-01-30 06:29 G 14787274.76 14787274.77 14787274.78 0.1882 0.1863

Earth 35774-12-05 07:41 G 14787583.72 14787583.82 14787583.93 0.2678 0.2060

Moon 35774-12-05 09:21 G 14787583.79 14787583.89 14787584.00 0.2681 0.1966 *

Jupiter 35775-10-05 16:48 G 14787888.08 14787888.20 14787888.33 0.0520 0.0040

Venus 35776-04-02 23:31 G 14788068.37 14788068.48 14788068.58 0.3685 0.0801

Venus 35781-10-17 16:05 G 14790092.07 14790092.17 14790092.27 0.3684 0.1195

Jupiter 35781-12-01 02:53 G 14790136.44 14790136.62 14790136.80 0.0506 0.0122

Saturn 35783-02-17 01:41 G 14790579.41 14790579.57 14790579.74 0.0291 0.0125

Uranus 35783-05-15 06:57 G 14790666.76 14790666.79 14790666.83 0.0135 0.0132

Saturn 35783-05-17 02:09 G 14790668.42 14790668.59 14790668.77 0.0292 0.0080

Mars 35783-06-22 14:24 G 14790704.99 14790705.10 14790705.21 0.1890 0.0549

Uranus 35783-08-11 13:55 G 14790754.97 14790755.08 14790755.20 0.0135 0.0107

Saturn 35783-08-14 02:09 G 14790757.56 14790757.59 14790757.64 0.0293 0.0284

Uranus 35783-11-07 20:38 G 14790843.22 14790843.36 14790843.52 0.0134 0.0082

Uranus 35784-02-04 03:36 G 14790931.49 14790931.65 14790931.83 0.0134 0.0057

Uranus 35784-05-02 10:33 G 14791019.76 14791019.94 14791020.12 0.0134 0.0031

Moon 35784-06-05 19:12 G 14791054.20 14791054.30 14791054.40 0.2650 0.0801

Earth 35784-06-05 19:41 G 14791054.22 14791054.32 14791054.43 0.2653 0.0665 *

Uranus 35784-07-29 17:17 G 14791108.04 14791108.22 14791108.41 0.0134 0.0007

Uranus 35784-10-26 00:00 G 14791196.32 14791196.50 14791196.69 0.0134 0.0018

Uranus 35785-01-22 06:43 G 14791284.61 14791284.78 14791284.96 0.0134 0.0042

Uranus 35785-04-20 13:26 G 14791372.90 14791373.06 14791373.22 0.0134 0.0066

Uranus 35785-07-17 19:55 G 14791461.20 14791461.33 14791461.47 0.0134 0.0090

Uranus 35785-10-14 02:24 G 14791549.51 14791549.60 14791549.70 0.0134 0.0114

Venus 35785-10-17 07:55 G 14791552.70 14791552.83 14791552.97 0.3686 0.0736

Venus 35787-05-03 08:53 G 14792115.82 14792115.87 14792115.92 0.3684 0.3208

Jupiter 35787-07-24 20:38 G 14792198.24 14792198.36 14792198.48 0.0520 0.0198

Jupiter 35787-10-22 01:41 G 14792287.49 14792287.57 14792287.66 0.0518 0.0394

Earth 35787-12-08 16:33 G 14792335.04 14792335.19 14792335.34 0.2678 0.1071

Moon 35787-12-08 18:14 G 14792335.13 14792335.26 14792335.40 0.2678 0.1361 *

Mars 35792-11-11 22:33 G 14794135.33 14794135.44 14794135.55 0.1896 0.0736

Jupiter 35793-09-18 23:45 G 14794446.35 14794446.49 14794446.64 0.0505 0.0323

Jupiter 35793-12-18 10:19 G 14794536.90 14794536.93 14794536.98 0.0507 0.0496

Neptune 35795-03-02 08:24 G 14794975.80 14794975.85 14794975.93 0.0089 0.0083

Neptune 35795-05-29 12:14 G 14795063.90 14795064.01 14795064.12 0.0089 0.0072

Neptune 35795-08-25 15:21 G 14795152.02 14795152.14 14795152.30 0.0089 0.0062

Neptune 35795-11-21 19:12 G 14795240.15 14795240.30 14795240.46 0.0089 0.0051

Neptune 35796-02-17 22:48 G 14795328.28 14795328.45 14795328.62 0.0089 0.0040

Saturn 35796-03-26 19:26 G 14795366.28 14795366.31 14795366.35 0.0272 0.0260

Neptune 35796-05-16 02:09 G 14795416.42 14795416.59 14795416.78 0.0089 0.0030

Saturn 35796-06-23 06:00 G 14795454.64 14795454.75 14795454.86 0.0271 0.0144

Neptune 35796-08-12 05:45 G 14795504.55 14795504.74 14795504.93 0.0089 0.0019

Saturn 35796-09-19 16:19 G 14795543.05 14795543.18 14795543.31 0.0270 0.0029

Neptune 35796-11-08 09:07 G 14795592.70 14795592.88 14795593.08 0.0089 0.0009

Saturn 35796-12-17 02:38 G 14795631.49 14795631.61 14795631.74 0.0269 0.0086

Neptune 35797-02-04 12:43 G 14795680.84 14795681.03 14795681.22 0.0089 0.0002

Saturn 35797-03-15 13:12 G 14795719.96 14795720.05 14795720.14 0.0269 0.0200

Neptune 35797-05-03 16:05 G 14795768.98 14795769.17 14795769.36 0.0089 0.0013

Moon 35797-06-08 12:14 G 14795804.90 14795805.01 14795805.12 0.2654 0.0569

Earth 35797-06-08 12:57 G 14795804.93 14795805.04 14795805.14 0.2653 0.0627 *

Neptune 35797-07-30 19:26 G 14795857.13 14795857.31 14795857.50 0.0089 0.0023

Neptune 35797-10-26 23:02 G 14795945.28 14795945.46 14795945.63 0.0089 0.0033

Neptune 35798-01-23 02:09 G 14796033.44 14796033.59 14796033.77 0.0089 0.0044

Neptune 35798-04-21 05:45 G 14796121.59 14796121.74 14796121.89 0.0089 0.0054

Neptune 35798-07-18 08:53 G 14796209.76 14796209.87 14796210.01 0.0089 0.0065

Neptune 35798-10-14 12:14 G 14796297.93 14796298.01 14796298.12 0.0089 0.0075

Neptune 35799-01-10 15:50 G 14796386.12 14796386.16 14796386.22 0.0089 0.0085

Jupiter 35799-05-13 00:43 G 14796508.44 14796508.53 14796508.63 0.0521 0.0350

Jupiter 35799-08-10 05:45 G 14796597.63 14796597.74 14796597.86 0.0519 0.0243

Mars 35801-06-09 16:33 G 14797266.06 14797266.19 14797266.32 0.1648 0.0945

Jupiter 35805-10-07 06:57 G 14798846.64 14798846.79 14798846.94 0.0507 0.0285

Pluto 35809-09-15 10:48 G 14800285.91 14800285.95 14800286.02 0.0069 0.0062

Pluto 35809-12-12 11:17 G 14800373.90 14800373.97 14800374.07 0.0069 0.0053

Pluto 35810-03-10 12:14 G 14800461.91 14800462.01 14800462.12 0.0069 0.0042

Pluto 35810-06-06 12:43 G 14800549.92 14800550.03 14800550.15 0.0070 0.0032

Moon 35810-06-12 05:45 G 14800555.66 14800555.74 14800555.81 0.2659 0.1857

Earth 35810-06-12 06:14 G 14800555.68 14800555.76 14800555.83 0.2653 0.1926 *

Pluto 35810-09-02 13:12 G 14800637.93 14800638.05 14800638.18 0.0070 0.0022

Mars 35810-10-30 18:57 G 14800696.13 14800696.29 14800696.45 0.1643 0.0366

Pluto 35810-11-29 13:55 G 14800725.95 14800726.08 14800726.21 0.0070 0.0011

Pluto 35811-02-25 14:24 G 14800813.97 14800814.10 14800814.24 0.0070 0.0003

Jupiter 35811-03-02 05:02 G 14800818.68 14800818.71 14800818.75 0.0522 0.0497

Pluto 35811-05-24 15:07 G 14800902.00 14800902.13 14800902.26 0.0070 0.0009

Jupiter 35811-05-30 10:19 G 14800907.80 14800907.93 14800908.05 0.0520 0.0095

Pluto 35811-08-20 15:36 G 14800990.03 14800990.15 14800990.28 0.0070 0.0020

Pluto 35811-11-16 16:05 G 14801078.06 14801078.17 14801078.29 0.0070 0.0030

Pluto 35812-02-12 16:48 G 14801166.09 14801166.20 14801166.30 0.0070 0.0041

Pluto 35812-05-10 17:02 G 14801254.13 14801254.21 14801254.31 0.0070 0.0052

Saturn 35812-07-07 01:55 G 14801311.43 14801311.58 14801311.73 0.0291 0.0169

Pluto 35812-08-06 18:00 G 14801342.19 14801342.25 14801342.31 0.0071 0.0062

Saturn 35812-10-04 02:24 G 14801400.42 14801400.60 14801400.78 0.0292 0.0036

Saturn 35813-01-01 02:38 G 14801489.51 14801489.61 14801489.71 0.0293 0.0241

Moon 35817-06-05 07:12 G 14803105.72 14803105.80 14803105.88 0.2648 0.1746

Earth 35817-06-05 07:26 G 14803105.72 14803105.81 14803105.89 0.2654 0.1683 *

Jupiter 35817-07-26 03:36 G 14803156.46 14803156.65 14803156.83 0.0506 0.0077

Earth 35820-12-06 14:38 G 14804385.98 14804386.11 14804386.25 0.2678 0.1466

Moon 35820-12-06 16:19 G 14804386.04 14804386.18 14804386.33 0.2681 0.1130 *

Mars 35822-12-22 14:24 G 14805131.99 14805132.10 14805132.21 0.1889 0.0716

Jupiter 35823-03-18 14:53 G 14805217.99 14805218.12 14805218.25 0.0520 0.0048

Saturn 35825-11-11 09:07 G 14806186.77 14806186.88 14806186.98 0.0271 0.0173

Saturn 35826-02-07 19:26 G 14806275.18 14806275.31 14806275.44 0.0270 0.0058

Saturn 35826-05-07 05:45 G 14806363.61 14806363.74 14806363.87 0.0270 0.0057

Uranus 35826-08-02 01:26 G 14806450.50 14806450.56 14806450.63 0.0144 0.0123

Saturn 35826-08-03 16:05 G 14806452.08 14806452.17 14806452.28 0.0269 0.0172

Uranus 35826-10-29 05:02 G 14806538.63 14806538.71 14806538.81 0.0144 0.0102

Uranus 35827-01-25 08:53 G 14806626.76 14806626.87 14806626.98 0.0144 0.0080

Uranus 35827-04-23 12:43 G 14806714.91 14806715.03 14806715.15 0.0144 0.0059

Venus 35827-04-26 04:33 G 14806717.60 14806717.69 14806717.78 0.3685 0.2037

Uranus 35827-07-20 16:19 G 14806803.05 14806803.18 14806803.31 0.0144 0.0037

Uranus 35827-10-16 20:09 G 14806891.21 14806891.34 14806891.47 0.0144 0.0016

Uranus 35828-01-13 00:00 G 14806979.36 14806979.50 14806979.63 0.0144 0.0007

Uranus 35828-04-10 03:50 G 14807067.52 14807067.66 14807067.79 0.0144 0.0029

Uranus 35828-07-07 07:41 G 14807155.69 14807155.82 14807155.94 0.0144 0.0051

Uranus 35828-10-03 11:17 G 14807243.86 14807243.97 14807244.09 0.0144 0.0073

Uranus 35828-12-30 15:07 G 14807332.04 14807332.13 14807332.24 0.0144 0.0095

Uranus 35829-03-28 19:12 G 14807420.22 14807420.30 14807420.38 0.0144 0.0118

Jupiter 35829-05-13 23:31 G 14807466.30 14807466.48 14807466.66 0.0506 0.0140

Uranus 35829-06-24 22:48 G 14807508.43 14807508.45 14807508.49 0.0144 0.0141

Moon 35830-06-07 23:45 G 14807856.39 14807856.49 14807856.60 0.2650 0.0439

Earth 35830-06-08 00:29 G 14807856.41 14807856.52 14807856.63 0.2654 0.0402 *

Mars 35832-05-13 22:33 G 14808562.32 14808562.44 14808562.55 0.1896 0.0598

Venus 35832-11-08 21:07 G 14808741.27 14808741.38 14808741.49 0.3685 0.0092

Earth 35833-12-09 23:31 G 14809137.36 14809137.48 14809137.61 0.2678 0.1667

Moon 35833-12-10 01:12 G 14809137.43 14809137.55 14809137.67 0.2676 0.1778 *

Jupiter 35835-01-04 19:12 G 14809528.19 14809528.30 14809528.42 0.0520 0.0195

Jupiter 35835-04-04 00:29 G 14809617.44 14809617.52 14809617.60 0.0518 0.0398

Venus 35836-11-08 04:48 G 14810201.59 14810201.70 14810201.81 0.3685 0.2240

Venus 35838-05-25 13:55 G 14810764.99 14810765.08 14810765.17 0.3684 0.1903

Mars 35840-12-08 17:17 G 14811693.10 14811693.22 14811693.33 0.1648 0.1149

Jupiter 35841-03-01 20:24 G 14811776.22 14811776.35 14811776.49 0.0505 0.0342

Jupiter 35841-05-31 06:57 G 14811866.74 14811866.79 14811866.86 0.0508 0.0478

Mars 35841-10-04 06:29 G 14811992.77 14811992.77 14811992.78 0.1903 0.1901

Saturn 35841-11-24 01:12 G 14812043.43 14812043.55 14812043.67 0.0291 0.0218

Saturn 35842-02-21 01:41 G 14812132.39 14812132.57 14812132.76 0.0292 0.0014

Saturn 35842-05-21 01:55 G 14812221.45 14812221.58 14812221.72 0.0293 0.0193

Venus 35842-05-25 08:38 G 14812225.75 14812225.86 14812225.98 0.3686 0.2170

Moon 35843-06-10 17:02 G 14812607.11 14812607.21 14812607.31 0.2656 0.0750

Earth 35843-06-10 17:45 G 14812607.13 14812607.24 14812607.34 0.2653 0.0896 *

Jupiter 35846-10-23 23:02 G 14813838.37 14813838.46 14813838.55 0.0521 0.0356

Jupiter 35847-01-21 04:05 G 14813927.56 14813927.67 14813927.78 0.0519 0.0235

Mars 35850-04-30 19:26 G 14815123.14 14815123.31 14815123.47 0.1643 0.0184

Jupiter 35853-03-19 04:33 G 14816176.54 14816176.69 14816176.84 0.0507 0.0280

Saturn 35855-03-31 12:43 G 14816918.94 14816919.03 14816919.12 0.0272 0.0195

Saturn 35855-06-27 23:02 G 14817007.34 14817007.46 14817007.59 0.0271 0.0080

Saturn 35855-09-24 09:36 G 14817095.76 14817095.90 14817096.03 0.0270 0.0035

Saturn 35855-12-21 19:55 G 14817184.22 14817184.33 14817184.44 0.0269 0.0150

Saturn 35856-03-19 06:29 G 14817272.75 14817272.77 14817272.79 0.0268 0.0263

Moon 35856-06-12 10:33 G 14817357.88 14817357.94 14817358.00 0.2659 0.2168

Earth 35856-06-12 11:02 G 14817357.90 14817357.96 14817358.02 0.2653 0.2196 *

Jupiter 35858-08-12 03:07 G 14818148.61 14818148.63 14818148.66 0.0522 0.0507

Jupiter 35858-11-09 08:09 G 14818237.72 14818237.84 14818237.97 0.0520 0.0084

Mars 35859-09-20 21:36 G 14818553.34 14818553.40 14818553.47 0.1638 0.1492

Mars 35862-06-22 14:38 G 14819559.00 14819559.11 14819559.21 0.1889 0.0880

Moon 35863-06-06 11:45 G 14819907.90 14819907.99 14819908.08 0.2648 0.1427

Earth 35863-06-06 12:00 G 14819907.91 14819908.00 14819908.09 0.2654 0.1420 *

Jupiter 35865-01-05 00:57 G 14820486.36 14820486.54 14820486.72 0.0506 0.0070

Earth 35866-12-07 21:36 G 14821188.24 14821188.40 14821188.55 0.2678 0.0875

Moon 35866-12-07 23:17 G 14821188.32 14821188.47 14821188.62 0.2681 0.0768 *

Uranus 35867-06-05 14:24 G 14821368.04 14821368.10 14821368.19 0.0135 0.0124

Uranus 35867-09-01 21:21 G 14821456.28 14821456.39 14821456.53 0.0134 0.0099

Uranus 35867-11-29 04:19 G 14821544.53 14821544.68 14821544.85 0.0134 0.0073

Uranus 35868-02-25 11:17 G 14821632.80 14821632.97 14821633.15 0.0134 0.0048

Uranus 35868-05-23 18:14 G 14821721.07 14821721.26 14821721.44 0.0134 0.0023

Uranus 35868-08-20 00:57 G 14821809.35 14821809.54 14821809.73 0.0134 0.0001

Uranus 35868-11-16 07:26 G 14821897.64 14821897.81 14821898.00 0.0134 0.0027

Uranus 35869-02-12 14:09 G 14821985.92 14821986.09 14821986.27 0.0134 0.0050

Uranus 35869-05-11 20:53 G 14822074.22 14822074.37 14822074.53 0.0134 0.0074

Uranus 35869-08-08 03:21 G 14822162.52 14822162.64 14822162.77 0.0134 0.0098

Uranus 35869-11-04 09:36 G 14822250.84 14822250.90 14822250.99 0.0134 0.0122

Jupiter 35870-08-28 12:29 G 14822547.90 14822548.02 14822548.15 0.0520 0.0066

Saturn 35871-04-13 01:12 G 14822775.47 14822775.55 14822775.62 0.0291 0.0264

Saturn 35871-07-11 01:41 G 14822864.39 14822864.57 14822864.75 0.0292 0.0059

Saturn 35871-10-08 02:09 G 14822953.43 14822953.59 14822953.75 0.0293 0.0147

Mars 35871-11-12 22:33 G 14822989.32 14822989.44 14822989.55 0.1896 0.0441

Neptune 35875-06-22 22:48 G 14824307.45 14824307.45 14824307.48 0.0089 0.0088

Neptune 35875-09-19 00:14 G 14824395.47 14824395.51 14824395.57 0.0089 0.0081

Neptune 35875-12-16 01:26 G 14824483.50 14824483.56 14824483.65 0.0089 0.0074

Neptune 35876-03-13 03:07 G 14824571.54 14824571.63 14824571.72 0.0089 0.0066

Moon 35876-06-08 04:33 G 14824658.58 14824658.69 14824658.80 0.2650 0.0285

Earth 35876-06-08 05:17 G 14824658.61 14824658.72 14824658.83 0.2653 0.0151 *

Neptune 35876-06-09 04:19 G 14824659.59 14824659.68 14824659.78 0.0089 0.0059

Neptune 35876-09-05 05:31 G 14824747.63 14824747.73 14824747.85 0.0089 0.0052

Jupiter 35876-10-23 21:21 G 14824796.21 14824796.39 14824796.57 0.0506 0.0139

Neptune 35876-12-02 06:57 G 14824835.68 14824835.79 14824835.91 0.0088 0.0044

Neptune 35877-02-28 08:24 G 14824923.73 14824923.85 14824923.97 0.0088 0.0037

Neptune 35877-05-27 09:36 G 14825011.78 14825011.90 14825012.03 0.0088 0.0030

Neptune 35877-08-23 11:02 G 14825099.83 14825099.96 14825100.09 0.0088 0.0022

Neptune 35877-11-19 12:14 G 14825187.88 14825188.01 14825188.15 0.0088 0.0016

Neptune 35878-02-15 13:41 G 14825275.94 14825276.07 14825276.21 0.0088 0.0008

Neptune 35878-05-14 15:07 G 14825364.00 14825364.13 14825364.26 0.0088 0.0001

Venus 35878-05-17 09:50 G 14825366.86 14825366.91 14825366.95 0.3686 0.3267

Neptune 35878-08-10 16:19 G 14825452.05 14825452.18 14825452.32 0.0088 0.0008

Neptune 35878-11-06 17:45 G 14825540.11 14825540.24 14825540.37 0.0088 0.0014

Neptune 35879-02-02 19:12 G 14825628.17 14825628.30 14825628.43 0.0088 0.0021

Neptune 35879-05-01 20:24 G 14825716.23 14825716.35 14825716.48 0.0088 0.0029

Neptune 35879-07-28 21:50 G 14825804.29 14825804.41 14825804.53 0.0088 0.0036

Neptune 35879-10-24 23:02 G 14825892.35 14825892.46 14825892.59 0.0088 0.0044

Earth 35879-12-11 06:14 G 14825939.68 14825939.76 14825939.85 0.2678 0.2244

Moon 35879-12-11 07:55 G 14825939.79 14825939.83 14825939.88 0.2675 0.2555 *

Neptune 35880-01-21 00:14 G 14825980.42 14825980.51 14825980.64 0.0088 0.0052

Neptune 35880-04-18 01:55 G 14826068.48 14826068.58 14826068.68 0.0088 0.0058

Mars 35880-06-08 17:45 G 14826120.15 14826120.24 14826120.33 0.1648 0.1344

Neptune 35880-07-15 03:21 G 14826156.55 14826156.64 14826156.73 0.0088 0.0066

Neptune 35880-10-11 04:33 G 14826244.62 14826244.69 14826244.77 0.0088 0.0073

Neptune 35881-01-07 06:00 G 14826332.70 14826332.75 14826332.81 0.0088 0.0081

Mars 35881-04-04 06:29 G 14826419.73 14826419.77 14826419.82 0.1902 0.1746

Neptune 35881-04-05 07:26 G 14826420.81 14826420.81 14826420.82 0.0088 0.0088

Jupiter 35882-06-16 17:17 G 14826858.10 14826858.22 14826858.34 0.0521 0.0205

Jupiter 35882-09-13 22:33 G 14826947.35 14826947.44 14826947.52 0.0519 0.0388

Venus 35883-12-01 02:09 G 14827390.49 14827390.59 14827390.69 0.3685 0.1355

Saturn 35884-08-17 15:36 G 14827651.09 14827651.15 14827651.23 0.0272 0.0224

Saturn 35884-11-14 02:09 G 14827739.47 14827739.59 14827739.71 0.0271 0.0109

Saturn 35885-02-10 12:29 G 14827827.89 14827828.02 14827828.16 0.0270 0.0008

Saturn 35885-05-09 22:48 G 14827916.34 14827916.45 14827916.58 0.0269 0.0121

Saturn 35885-08-06 09:21 G 14828004.83 14828004.89 14828004.96 0.0268 0.0234

Jupiter 35888-08-11 17:17 G 14829106.09 14829106.22 14829106.35 0.0505 0.0355

Jupiter 35888-11-10 04:05 G 14829196.60 14829196.67 14829196.74 0.0507 0.0464

Moon 35889-06-10 21:50 G 14829409.31 14829409.41 14829409.51 0.2657 0.1132

Earth 35889-06-10 22:19 G 14829409.34 14829409.43 14829409.53 0.2653 0.1160 *

Venus 35889-06-15 18:57 G 14829414.18 14829414.29 14829414.39 0.3685 0.0625

Mars 35889-10-29 20:09 G 14829550.18 14829550.34 14829550.50 0.1643 0.0035

Venus 35893-06-15 05:31 G 14830874.59 14830874.73 14830874.87 0.3686 0.0741

Jupiter 35894-04-04 21:50 G 14831168.32 14831168.41 14831168.50 0.0521 0.0350

Jupiter 35894-07-03 02:53 G 14831257.51 14831257.62 14831257.73 0.0519 0.0242

Venus 35894-12-30 11:31 G 14831437.91 14831437.98 14831438.06 0.3684 0.2629

Pluto 35895-07-25 18:29 G 14831645.24 14831645.27 14831645.37 0.0075 0.0071

Pluto 35895-10-21 21:36 G 14831733.27 14831733.40 14831733.56 0.0075 0.0051

Pluto 35896-01-18 00:14 G 14831821.34 14831821.51 14831821.70 0.0075 0.0032

Pluto 35896-04-15 03:07 G 14831909.43 14831909.63 14831909.83 0.0075 0.0013

Moon 35896-06-04 00:00 G 14831959.45 14831959.50 14831959.54 0.2647 0.2391

Earth 35896-06-03 23:45 G 14831959.45 14831959.49 14831959.53 0.2654 0.2429 *

Pluto 35896-07-12 05:31 G 14831997.54 14831997.73 14831997.94 0.0074 0.0007

Pluto 35896-10-08 07:55 G 14832085.66 14832085.83 14832086.03 0.0074 0.0026

Pluto 35897-01-04 10:33 G 14832173.80 14832173.94 14832174.12 0.0074 0.0044

Pluto 35897-04-02 13:12 G 14832261.96 14832262.05 14832262.17 0.0074 0.0063

Venus 35898-12-30 09:21 G 14832898.86 14832898.89 14832898.92 0.3686 0.3602

Mars 35899-03-21 22:05 G 14832980.33 14832980.42 14832980.52 0.1638 0.1295

Jupiter 35900-08-30 01:26 G 14833506.40 14833506.56 14833506.72 0.0507 0.0266

Saturn 35900-11-28 00:14 G 14833596.35 14833596.51 14833596.69 0.0291 0.0113

Saturn 35901-02-25 00:43 G 14833685.36 14833685.53 14833685.71 0.0292 0.0093

Mars 35901-12-22 14:24 G 14833986.00 14833986.10 14833986.20 0.1889 0.1017

Moon 35902-06-14 15:21 G 14834160.10 14834160.14 14834160.19 0.2659 0.2399

Earth 35902-06-14 15:36 G 14834160.12 14834160.15 14834160.19 0.2653 0.2463 *

Jupiter 35906-01-23 01:26 G 14835478.54 14835478.56 14835478.59 0.0522 0.0511

Jupiter 35906-04-22 06:29 G 14835567.65 14835567.77 14835567.90 0.0519 0.0080

Moon 35909-06-07 16:19 G 14836710.09 14836710.18 14836710.28 0.2648 0.1236

Earth 35909-06-07 16:48 G 14836710.10 14836710.20 14836710.30 0.2653 0.1156 *

Uranus 35910-05-27 04:48 G 14837063.68 14837063.70 14837063.73 0.0144 0.0140

Uranus 35910-08-23 08:24 G 14837151.78 14837151.85 14837151.93 0.0144 0.0119

Uranus 35910-11-19 12:00 G 14837239.91 14837240.00 14837240.11 0.0144 0.0098

Uranus 35911-02-15 15:50 G 14837328.05 14837328.16 14837328.28 0.0144 0.0076

Uranus 35911-05-14 19:41 G 14837416.20 14837416.32 14837416.44 0.0144 0.0055

Mars 35911-05-14 22:33 G 14837416.32 14837416.44 14837416.55 0.1896 0.0279 *

Uranus 35911-08-10 23:17 G 14837504.34 14837504.47 14837504.61 0.0144 0.0034

Uranus 35911-11-07 03:07 G 14837592.50 14837592.63 14837592.77 0.0144 0.0012

Uranus 35912-02-03 06:57 G 14837680.65 14837680.79 14837680.92 0.0144 0.0011

Uranus 35912-05-01 10:48 G 14837768.81 14837768.95 14837769.08 0.0144 0.0033

Jupiter 35912-06-17 22:48 G 14837816.27 14837816.45 14837816.63 0.0506 0.0070

Uranus 35912-07-28 14:38 G 14837856.98 14837857.11 14837857.23 0.0144 0.0055

Uranus 35912-10-24 18:14 G 14837945.15 14837945.26 14837945.38 0.0144 0.0077

Earth 35912-12-09 04:19 G 14837990.52 14837990.68 14837990.84 0.2678 0.0295

Moon 35912-12-09 06:14 G 14837990.59 14837990.76 14837990.92 0.2679 0.0074 *

Uranus 35913-01-20 22:05 G 14838033.33 14838033.42 14838033.53 0.0144 0.0100

Uranus 35913-04-19 02:09 G 14838121.52 14838121.59 14838121.66 0.0144 0.0122

Uranus 35913-07-16 06:00 G 14838209.75 14838209.75 14838209.76 0.0145 0.0144

Saturn 35914-01-05 19:12 G 14838383.26 14838383.30 14838383.36 0.0272 0.0248

Saturn 35914-04-04 05:45 G 14838471.62 14838471.74 14838471.85 0.0271 0.0133

Saturn 35914-07-01 16:05 G 14838560.04 14838560.17 14838560.30 0.0270 0.0018

Saturn 35914-09-28 02:24 G 14838648.48 14838648.60 14838648.73 0.0269 0.0096

Saturn 35914-12-25 12:57 G 14838736.96 14838737.04 14838737.12 0.0268 0.0210

Jupiter 35918-02-08 10:48 G 14839877.82 14839877.95 14839878.07 0.0520 0.0071

Mars 35919-12-09 18:29 G 14840547.21 14840547.27 14840547.32 0.1649 0.1542

Mars 35920-10-04 06:43 G 14840846.71 14840846.78 14840846.84 0.1902 0.1587

Moon 35922-06-10 09:21 G 14841460.78 14841460.89 14841461.00 0.2652 0.0100

Earth 35922-06-10 09:50 G 14841460.81 14841460.91 14841461.02 0.2653 0.0160 *

Jupiter 35924-04-05 19:12 G 14842126.13 14842126.30 14842126.48 0.0505 0.0139

Mars 35929-04-30 20:38 G 14843977.20 14843977.36 14843977.52 0.1643 0.0232

Jupiter 35929-11-27 15:07 G 14844188.02 14844188.13 14844188.25 0.0521 0.0218

Jupiter 35930-02-24 20:24 G 14844277.26 14844277.35 14844277.44 0.0519 0.0376

Saturn 35930-04-16 23:31 G 14844328.33 14844328.48 14844328.63 0.0292 0.0166

Saturn 35930-07-15 00:00 G 14844417.32 14844417.50 14844417.69 0.0293 0.0041

Saturn 35930-10-12 00:14 G 14844506.42 14844506.51 14844506.61 0.0294 0.0247

Venus 35934-12-23 07:26 G 14846039.74 14846039.81 14846039.88 0.3686 0.2588

Moon 35935-06-13 02:38 G 14846211.51 14846211.61 14846211.70 0.2657 0.1279

Earth 35935-06-13 03:07 G 14846211.54 14846211.63 14846211.72 0.2653 0.1426 *

Jupiter 35936-01-23 15:36 G 14846436.02 14846436.15 14846436.29 0.0505 0.0348

Jupiter 35936-04-23 02:24 G 14846526.54 14846526.60 14846526.67 0.0507 0.0470

Mars 35938-09-20 22:48 G 14847407.33 14847407.45 14847407.57 0.1638 0.1092

Venus 35940-07-08 00:00 G 14848063.39 14848063.50 14848063.60 0.3685 0.0658

Mars 35941-06-22 14:24 G 14848413.01 14848413.10 14848413.19 0.1889 0.1180

Jupiter 35941-09-15 19:55 G 14848498.24 14848498.33 14848498.42 0.0521 0.0359

Jupiter 35941-12-14 00:57 G 14848587.43 14848587.54 14848587.66 0.0519 0.0235

Moon 35942-06-06 04:33 G 14848761.62 14848761.69 14848761.75 0.2647 0.2143

Earth 35942-06-06 04:19 G 14848761.62 14848761.68 14848761.75 0.2654 0.2173 *

Saturn 35943-08-22 08:38 G 14849203.75 14849203.86 14849203.96 0.0271 0.0163

Saturn 35943-11-18 18:57 G 14849292.16 14849292.29 14849292.42 0.0270 0.0049

Saturn 35944-02-15 05:17 G 14849380.59 14849380.72 14849380.85 0.0269 0.0066

Saturn 35944-05-13 15:36 G 14849469.06 14849469.15 14849469.25 0.0268 0.0180

Venus 35946-01-21 16:33 G 14850087.09 14850087.19 14850087.29 0.3684 0.1334

Jupiter 35948-02-09 22:48 G 14850836.29 14850836.45 14850836.61 0.0507 0.0259

Venus 35950-01-21 06:29 G 14851547.63 14851547.77 14851547.91 0.3686 0.0758

Mars 35950-11-12 22:33 G 14851843.32 14851843.44 14851843.55 0.1895 0.0143

Uranus 35951-06-26 22:05 G 14852069.33 14852069.42 14852069.52 0.0134 0.0116

Venus 35951-08-07 09:21 G 14852110.85 14852110.89 14852110.93 0.3684 0.3353

Uranus 35951-09-23 05:02 G 14852157.58 14852157.71 14852157.85 0.0134 0.0091

Uranus 35951-12-20 12:00 G 14852245.84 14852246.00 14852246.16 0.0134 0.0066

Uranus 35952-03-17 18:43 G 14852334.11 14852334.28 14852334.46 0.0134 0.0041

Uranus 35952-06-14 01:41 G 14852422.38 14852422.57 14852422.75 0.0134 0.0016

Uranus 35952-09-10 08:24 G 14852510.66 14852510.85 14852511.04 0.0134 0.0009

Uranus 35952-12-07 14:53 G 14852598.95 14852599.12 14852599.31 0.0134 0.0034

Uranus 35953-03-05 21:36 G 14852687.24 14852687.40 14852687.57 0.0134 0.0057

Uranus 35953-06-02 04:19 G 14852775.53 14852775.68 14852775.83 0.0134 0.0081

Jupiter 35953-07-05 00:29 G 14852808.49 14852808.52 14852808.55 0.0522 0.0502

Uranus 35953-08-29 10:48 G 14852863.84 14852863.95 14852864.07 0.0134 0.0105

Jupiter 35953-10-02 05:31 G 14852897.61 14852897.73 14852897.86 0.0520 0.0090

Uranus 35953-11-25 17:02 G 14852952.18 14852952.21 14852952.27 0.0134 0.0129

Moon 35955-06-08 21:07 G 14853512.28 14853512.38 14853512.48 0.2648 0.0940

Earth 35955-06-08 21:36 G 14853512.30 14853512.40 14853512.50 0.2653 0.0896 *

Earth 35958-12-10 11:17 G 14854792.81 14854792.97 14854793.13 0.2678 0.0304

Moon 35958-12-10 13:12 G 14854792.89 14854793.05 14854793.21 0.2677 0.0487 *

Saturn 35959-09-03 21:07 G 14855060.27 14855060.38 14855060.50 0.0291 0.0228

Jupiter 35959-11-28 20:09 G 14855146.16 14855146.34 14855146.52 0.0506 0.0062

Neptune 35959-11-29 06:29 G 14855146.71 14855146.77 14855146.87 0.0089 0.0080

Saturn 35959-12-01 21:50 G 14855149.22 14855149.41 14855149.59 0.0292 0.0021

Neptune 35960-02-25 10:19 G 14855234.82 14855234.93 14855235.06 0.0089 0.0069

Saturn 35960-02-28 22:05 G 14855238.28 14855238.42 14855238.57 0.0293 0.0185

Mars 35960-04-04 06:29 G 14855273.70 14855273.77 14855273.85 0.1902 0.1448

Neptune 35960-05-23 13:55 G 14855322.94 14855323.08 14855323.23 0.0089 0.0058

Neptune 35960-08-19 17:17 G 14855411.07 14855411.22 14855411.39 0.0089 0.0048

Neptune 35960-11-15 20:53 G 14855499.20 14855499.37 14855499.55 0.0089 0.0037

Neptune 35961-02-12 00:29 G 14855587.34 14855587.52 14855587.71 0.0089 0.0026

Neptune 35961-05-11 03:50 G 14855675.48 14855675.66 14855675.86 0.0089 0.0016

Neptune 35961-08-07 07:26 G 14855763.62 14855763.81 14855764.01 0.0089 0.0005

Neptune 35961-11-03 11:02 G 14855851.77 14855851.96 14855852.15 0.0089 0.0006

Neptune 35962-01-30 14:24 G 14855939.92 14855940.10 14855940.29 0.0089 0.0016

Neptune 35962-04-28 17:45 G 14856028.07 14856028.24 14856028.43 0.0089 0.0027

Neptune 35962-07-25 21:21 G 14856116.22 14856116.39 14856116.56 0.0089 0.0037

Neptune 35962-10-22 00:29 G 14856204.37 14856204.52 14856204.69 0.0089 0.0048

Neptune 35963-01-18 04:05 G 14856292.53 14856292.67 14856292.82 0.0089 0.0058

Neptune 35963-04-16 07:12 G 14856380.70 14856380.80 14856380.94 0.0089 0.0069

Neptune 35963-07-13 10:48 G 14856468.88 14856468.95 14856469.04 0.0089 0.0079

Jupiter 35965-07-21 09:07 G 14857207.76 14857207.88 14857208.01 0.0520 0.0074

Moon 35968-06-10 14:09 G 14858262.98 14858263.09 14858263.19 0.2654 0.0291

Earth 35968-06-10 14:38 G 14858263.01 14858263.11 14858263.22 0.2653 0.0399 *

Mars 35968-10-29 21:07 G 14858404.23 14858404.38 14858404.54 0.1643 0.0422

Jupiter 35971-09-16 17:31 G 14859456.06 14859456.23 14859456.41 0.0506 0.0134

Saturn 35973-01-08 11:45 G 14859935.90 14859935.99 14859936.09 0.0271 0.0191

Saturn 35973-04-06 22:05 G 14860024.30 14860024.42 14860024.55 0.0271 0.0076

Saturn 35973-07-04 08:38 G 14860112.73 14860112.86 14860112.99 0.0270 0.0039

Saturn 35973-09-30 18:57 G 14860201.18 14860201.29 14860201.40 0.0269 0.0153

Saturn 35973-12-28 05:31 G 14860289.72 14860289.73 14860289.73 0.0268 0.0267

Jupiter 35977-05-09 13:26 G 14861517.95 14861518.06 14861518.18 0.0521 0.0221

Jupiter 35977-08-06 18:43 G 14861607.19 14861607.28 14861607.37 0.0519 0.0372

Mars 35978-03-21 23:31 G 14861834.34 14861834.48 14861834.61 0.1638 0.0891

Mars 35980-12-21 14:38 G 14862840.02 14862840.11 14862840.19 0.1889 0.1346

Moon 35981-06-13 07:26 G 14863013.73 14863013.81 14863013.89 0.2657 0.1672

Earth 35981-06-13 07:55 G 14863013.75 14863013.83 14863013.91 0.2653 0.1688 *

Jupiter 35983-07-05 14:09 G 14863765.95 14863766.09 14863766.22 0.0505 0.0341

Jupiter 35983-10-04 00:57 G 14863856.48 14863856.54 14863856.60 0.0507 0.0477

Moon 35988-06-06 09:07 G 14865563.81 14865563.88 14865563.95 0.2647 0.1961

Earth 35988-06-06 09:07 G 14865563.81 14865563.88 14865563.96 0.2653 0.1909 *

Saturn 35989-01-20 19:41 G 14865792.29 14865792.32 14865792.36 0.0291 0.0285

Jupiter 35989-02-25 18:00 G 14865828.16 14865828.25 14865828.34 0.0522 0.0367

Saturn 35989-04-19 20:24 G 14865881.18 14865881.35 14865881.53 0.0292 0.0078

Jupiter 35989-05-25 23:02 G 14865917.35 14865917.46 14865917.58 0.0519 0.0226

Saturn 35989-07-17 20:53 G 14865970.21 14865970.37 14865970.54 0.0293 0.0129

Mars 35990-05-13 22:19 G 14866270.32 14866270.43 14866270.55 0.1895 0.0073

Venus 35991-07-30 05:02 G 14866712.62 14866712.71 14866712.80 0.3685 0.1908

Earth	**35991-12-08 09:07**	**G**	**14866843.80**	**14866843.88**	**14866843.97**	**0.2678**	**0.2270**	
Moon	**35991-12-08 10:33**	**G**	**14866843.84**	**14866843.94**	**14866844.05**	**0.2682**	**0.2045**	*
Uranus	**35994-06-16 11:31**	**G**	**14867764.95**	**14867764.98**	**14867765.02**	**0.0144**	**0.0138**	
Uranus	**35994-09-12 15:07**	**G**	**14867853.06**	**14867853.13**	**14867853.21**	**0.0144**	**0.0117**	
Uranus	**35994-12-09 18:43**	**G**	**14867941.19**	**14867941.28**	**14867941.38**	**0.0144**	**0.0096**	
Uranus	**35995-03-07 22:33**	**G**	**14868029.33**	**14868029.44**	**14868029.55**	**0.0144**	**0.0074**	
Uranus	**35995-06-04 02:09**	**G**	**14868117.47**	**14868117.59**	**14868117.72**	**0.0144**	**0.0053**	
Jupiter	**35995-07-22 21:36**	**G**	**14868166.25**	**14868166.40**	**14868166.56**	**0.0506**	**0.0272**	
Uranus	**35995-08-31 06:00**	**G**	**14868205.62**	**14868205.75**	**14868205.88**	**0.0144**	**0.0031**	
Uranus	**35995-11-27 09:50**	**G**	**14868293.77**	**14868293.91**	**14868294.04**	**0.0144**	**0.0010**	
Uranus	**35996-02-23 13:26**	**G**	**14868381.93**	**14868382.06**	**14868382.20**	**0.0144**	**0.0013**	
Uranus	**35996-05-21 17:17**	**G**	**14868470.09**	**14868470.22**	**14868470.35**	**0.0144**	**0.0034**	
Uranus	**35996-08-17 21:07**	**G**	**14868558.26**	**14868558.38**	**14868558.50**	**0.0144**	**0.0057**	
Uranus	**35996-11-14 00:43**	**G**	**14868646.43**	**14868646.53**	**14868646.65**	**0.0144**	**0.0080**	
Uranus	**35997-02-10 04:48**	**G**	**14868734.61**	**14868734.70**	**14868734.80**	**0.0144**	**0.0101**	
Venus	**35997-02-11 21:36**	**G**	**14868736.30**	**14868736.40**	**14868736.51**	**0.3685**	**0.0154**	
Uranus	**35997-05-09 08:53**	**G**	**14868822.80**	**14868822.87**	**14868822.93**	**0.0145**	**0.0124**	
Mars	**35999-10-04 06:43**	**G**	**14869700.69**	**14869700.78**	**14869700.86**	**0.1902**	**0.1282**	
Jupiter	**36000-12-14 22:48**	**G**	**14870138.42**	**14870138.45**	**14870138.48**	**0.0522**	**0.0507**	

37TH MILLENNIUM CE

This is a list of transits of Mercury in the 37th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Venus	36001-02-11 03:07 G	14870196.52	14870196.63	14870196.74	0.3685	0.2235
Jupiter	36001-03-14 03:50 G	14870227.53	14870227.66	14870227.79	0.0520	0.0085
Moon	36001-06-09 01:41 G	14870314.47	14870314.57	14870314.68	0.2649	0.0700
Earth	36001-06-09 02:09 G	14870314.49	14870314.59	14870314.70	0.2653	0.0643 *
Saturn	36002-05-28 14:24 G	14870668.03	14870668.10	14870668.18	0.0271	0.0224
Saturn	36002-08-25 00:43 G	14870756.41	14870756.53	14870756.66	0.0270	0.0109
Venus	36002-08-28 14:24 G	14870760.01	14870760.10	14870760.19	0.3684	0.2048
Saturn	36002-11-21 11:17 G	14870844.83	14870844.97	14870845.10	0.0269	0.0010
Saturn	36003-02-17 21:36 G	14870933.28	14870933.40	14870933.52	0.0269	0.0120
Saturn	36003-05-17 07:55 G	14871021.77	14871021.83	14871021.90	0.0268	0.0234
Earth	36004-12-10 18:14 G	14871595.11	14871595.26	14871595.41	0.2678	0.0892
Moon	36004-12-10 20:09 G	14871595.19	14871595.34	14871595.48	0.2677	0.1144 *
Venus	36006-08-28 07:12 G	14872220.69	14872220.80	14872220.91	0.3686	0.2222
Jupiter	36007-05-10 18:00 G	14872476.07	14872476.25	14872476.43	0.0506	0.0062
Mars	36008-04-29 21:50 G	14872831.26	14872831.41	14872831.56	0.1643	0.0629
Jupiter	36012-12-31 08:24 G	14874537.72	14874537.85	14874537.98	0.0520	0.0058
Moon	36014-06-11 18:43 G	14875065.18	14875065.28	14875065.39	0.2654	0.0577
Earth	36014-06-11 19:26 G	14875065.21	14875065.31	14875065.42	0.2653	0.0656 *
Mars	36017-09-20 00:00 G	14876261.35	14876261.50	14876261.65	0.1638	0.0698
Saturn	36018-09-06 16:48 G	14876613.05	14876613.20	14876613.37	0.0291	0.0150
Saturn	36018-12-04 17:31 G	14876702.05	14876702.23	14876702.41	0.0292	0.0057
Jupiter	36019-02-26 15:21 G	14876785.96	14876786.14	14876786.32	0.0506	0.0135
Saturn	36019-03-03 17:45 G	14876791.17	14876791.24	14876791.32	0.0293	0.0263
Mars	36020-06-21 14:24 G	14877267.03	14877267.10	14877267.17	0.1889	0.1480
Jupiter	36024-10-19 12:14 G	14878847.90	14878848.01	14878848.13	0.0521	0.0216
Jupiter	36025-01-16 17:17 G	14878937.14	14878937.22	14878937.31	0.0518	0.0377
Moon	36027-06-14 12:14 G	14879815.94	14879816.01	14879816.09	0.2658	0.1866
Earth	36027-06-14 12:43 G	14879815.96	14879816.03	14879816.10	0.2653	0.1956 *
Mars	36029-11-11 22:33 G	14880697.32	14880697.44	14880697.56	0.1895	0.0191
Jupiter	36030-12-15 12:43 G	14881095.90	14881096.03	14881096.17	0.0505	0.0330

Jupiter 36031-03-15 23:45 G 14881186.44 14881186.49 14881186.53 0.0507 0.0490

Saturn 36031-10-15 17:17 G 14881400.18 14881400.22 14881400.27 0.0272 0.0256

Saturn 36032-01-12 03:36 G 14881488.54 14881488.65 14881488.77 0.0271 0.0141

Saturn 36032-04-09 14:09 G 14881576.96 14881577.09 14881577.22 0.0270 0.0025

Saturn 36032-07-07 00:29 G 14881665.40 14881665.52 14881665.65 0.0269 0.0090

Saturn 36032-10-03 10:48 G 14881753.87 14881753.95 14881754.04 0.0268 0.0205

Moon 36034-06-07 13:41 G 14882365.98 14882366.07 14882366.15 0.2647 0.1620

Earth 36034-06-07 13:55 G 14882365.99 14882366.08 14882366.16 0.2653 0.1653 *

Uranus 36035-04-19 22:19 G 14882682.43 14882682.43 14882682.45 0.0135 0.0134

Uranus 36035-07-17 05:31 G 14882770.62 14882770.73 14882770.84 0.0135 0.0109

Uranus 36035-10-13 12:14 G 14882858.87 14882859.01 14882859.17 0.0134 0.0084

Uranus 36036-01-09 19:12 G 14882947.14 14882947.30 14882947.47 0.0134 0.0059

Uranus 36036-04-07 02:09 G 14883035.41 14883035.59 14883035.77 0.0134 0.0034

Uranus 36036-07-04 08:53 G 14883123.68 14883123.87 14883124.06 0.0134 0.0009

Jupiter 36036-08-07 16:33 G 14883158.10 14883158.19 14883158.28 0.0521 0.0364

Uranus 36036-09-30 15:36 G 14883211.97 14883212.15 14883212.34 0.0134 0.0016

Jupiter 36036-11-04 21:36 G 14883247.29 14883247.40 14883247.52 0.0519 0.0228

Uranus 36036-12-27 22:19 G 14883300.25 14883300.43 14883300.61 0.0134 0.0040

Uranus 36037-03-26 05:02 G 14883388.55 14883388.71 14883388.87 0.0134 0.0064

Uranus 36037-06-22 11:31 G 14883476.85 14883476.98 14883477.12 0.0134 0.0088

Uranus 36037-09-18 18:00 G 14883565.16 14883565.25 14883565.36 0.0134 0.0112

Earth 36037-12-08 16:05 G 14883646.04 14883646.17 14883646.30 0.2678 0.1673

Moon 36037-12-08 17:45 G 14883646.11 14883646.24 14883646.37 0.2680 0.1541 *

Mars 36039-04-04 06:29 G 14884127.68 14884127.77 14884127.87 0.1901 0.1135

Neptune 36040-03-19 22:48 G 14884478.42 14884478.45 14884478.48 0.0089 0.0085

Neptune 36040-06-16 00:00 G 14884566.44 14884566.50 14884566.57 0.0089 0.0078

Neptune 36040-09-12 01:12 G 14884654.48 14884654.55 14884654.64 0.0088 0.0071

Neptune 36040-12-09 02:24 G 14884742.52 14884742.60 14884742.71 0.0088 0.0064

Neptune 36041-03-07 03:50 G 14884830.57 14884830.66 14884830.77 0.0088 0.0056

Neptune 36041-06-03 05:17 G 14884918.61 14884918.72 14884918.83 0.0088 0.0049

Neptune 36041-08-30 06:29 G 14885006.66 14885006.77 14885006.90 0.0088 0.0042

Neptune 36041-11-26 07:55 G 14885094.71 14885094.83 14885094.96 0.0088 0.0034

Neptune 36042-02-22 09:07 G 14885182.76 14885182.88 14885183.02 0.0088 0.0028

Neptune 36042-05-21 10:48 G 14885270.82 14885270.95 14885271.08 0.0088 0.0020

Neptune 36042-08-17 12:00 G 14885358.87 14885359.00 14885359.13 0.0088 0.0013

Venus 36042-08-20 10:19 G 14885361.88 14885361.93 14885361.99 0.3686 0.3133

Neptune 36042-11-13 13:26 G 14885446.92 14885447.06 14885447.19 0.0088 0.0005

Jupiter 36043-01-01 20:38 G 14885496.21 14885496.36 14885496.51 0.0507 0.0287

Neptune 36043-02-09 14:38 G 14885534.98 14885535.11 14885535.25 0.0088 0.0003

Neptune 36043-05-08 16:05 G 14885623.04 14885623.17 14885623.30 0.0088 0.0009

Neptune 36043-08-04 17:17 G 14885711.09 14885711.22 14885711.36 0.0088 0.0017

Neptune 36043-10-31 18:43 G 14885799.15 14885799.28 14885799.41 0.0088 0.0024

Neptune 36044-01-27 19:55 G 14885887.21 14885887.33 14885887.46 0.0088 0.0032

Neptune 36044-04-24 21:07 G 14885975.27 14885975.38 14885975.52 0.0088 0.0040

Neptune 36044-07-21 22:33 G 14886063.34 14886063.44 14886063.57 0.0088 0.0047

Neptune 36044-10-18 00:00 G 14886151.40 14886151.50 14886151.61 0.0088 0.0054

Neptune 36045-01-14 01:12 G 14886239.47 14886239.55 14886239.66 0.0088 0.0062

Neptune 36045-04-12 02:38 G 14886327.54 14886327.61 14886327.71 0.0088 0.0069

Neptune 36045-07-09 04:19 G 14886415.61 14886415.68 14886415.75 0.0088 0.0076

Neptune 36045-10-05 05:17 G 14886503.69 14886503.72 14886503.78 0.0088 0.0084

Moon 36047-06-10 06:29 G 14887116.66 14887116.77 14887116.87 0.2651 0.0488

Earth 36047-06-10 06:57 G 14887116.68 14887116.79 14887116.90 0.2653 0.0372 *

Mars 36047-10-29 22:33 G 14887258.30 14887258.44 14887258.58 0.1644 0.0830

Saturn 36048-01-24 14:53 G 14887344.99 14887345.12 14887345.24 0.0291 0.0214

Venus 36048-03-05 02:53 G 14887385.52 14887385.62 14887385.72 0.3685 0.1217

Saturn 36048-04-22 15:21 G 14887433.96 14887434.14 14887434.33 0.0292 0.0010

Jupiter 36048-05-26 21:07 G 14887468.36 14887468.38 14887468.40 0.0522 0.0510

Saturn 36048-07-20 15:50 G 14887523.03 14887523.16 14887523.29 0.0293 0.0200

Jupiter 36048-08-24 02:09 G 14887557.46 14887557.59 14887557.71 0.0520 0.0082

Earth 36050-12-12 00:57 G 14888397.41 14888397.54 14888397.67 0.2678 0.1468

Moon 36050-12-12 02:53 G 14888397.49 14888397.62 14888397.74 0.2677 0.1699 *

Venus 36053-09-18 19:26 G 14889409.20 14889409.31 14889409.41 0.3685 0.0760

Jupiter 36054-10-20 17:17 G 14889806.04 14889806.22 14889806.41 0.0506 0.0083

Pluto 36055-05-17 02:09 G 14890014.57 14890014.59 14890014.62 0.0069 0.0068

Pluto 36055-08-13 02:38 G 14890102.55 14890102.61 14890102.69 0.0069 0.0058

Pluto 36055-11-09 03:21 G 14890190.55 14890190.64 14890190.74 0.0069 0.0048

Pluto 36056-02-05 03:50 G 14890278.55 14890278.66 14890278.77 0.0069 0.0038

Pluto 36056-05-03 04:19 G 14890366.57 14890366.68 14890366.81 0.0070 0.0028

Pluto 36056-07-30 04:48 G 14890454.58 14890454.70 14890454.83 0.0070 0.0018

Pluto 36056-10-26 05:31 G 14890542.60 14890542.73 14890542.86 0.0070 0.0007

Pluto 36057-01-22 06:00 G 14890630.62 14890630.75 14890630.88 0.0070 0.0004

Mars 36057-03-21 00:43 G 14890688.37 14890688.53 14890688.68 0.1638 0.0492

Pluto 36057-04-20 06:29 G 14890718.65 14890718.77 14890718.91 0.0070 0.0014

Pluto 36057-07-17 07:12 G 14890806.68 14890806.80 14890806.92 0.0070 0.0024

Venus 36057-09-18 04:05 G 14890869.52 14890869.67 14890869.81 0.3686 0.0737

Pluto 36057-10-13 07:26 G 14890894.71 14890894.81 14890894.94 0.0070 0.0035

Pluto 36058-01-09 08:09 G 14890982.75 14890982.84 14890982.95 0.0070 0.0045

Pluto 36058-04-07 08:53 G 14891070.79 14891070.87 14891070.95 0.0070 0.0056

Pluto 36058-07-04 09:21 G 14891158.86 14891158.89 14891158.94 0.0071 0.0067

Venus 36059-04-04 12:00 G 14891432.94 14891433.00 14891433.07 0.3684 0.2768

Mars 36059-12-21 14:24 G 14891694.05 14891694.10 14891694.16 0.1888 0.1651

Moon 36060-06-11 23:31 G 14891867.38 14891867.48 14891867.58 0.2654 0.0817

Earth 36060-06-12 00:14 G 14891867.41 14891867.51 14891867.61 0.2653 0.0920 *

Jupiter 36060-06-12 06:57 G 14891867.66 14891867.79 14891867.92 0.0521 0.0059

Saturn 36061-05-31 06:14 G 14892220.66 14892220.76 14892220.86 0.0271 0.0175

Saturn 36061-08-27 16:33 G 14892309.06 14892309.19 14892309.32 0.0270 0.0060

Saturn 36061-11-24 02:53 G 14892397.49 14892397.62 14892397.75 0.0269 0.0055

Saturn 36062-02-20 13:12 G 14892485.95 14892486.05 14892486.16 0.0268 0.0169

Venus 36063-04-04 07:41 G 14892893.81 14892893.82 14892893.84 0.3686 0.3659

Jupiter 36066-08-08 13:55 G 14894115.90 14894116.08 14894116.25 0.0505 0.0128

Moon 36067-06-06 01:41 G 14894417.55 14894417.57 14894417.59 0.2647 0.2568

Mars 36069-05-12 22:19 G 14895124.32 14895124.43 14895124.55 0.1895 0.0339

Jupiter 36072-03-31 11:31 G 14896177.87 14896177.98 14896178.10 0.0521 0.0200

Jupiter 36072-06-28 16:48 G 14896267.12 14896267.20 14896267.28 0.0519 0.0395

Moon 36073-06-14 17:17 G 14896618.16 14896618.22 14896618.27 0.2659 0.2214

Earth 36073-06-14 17:31 G 14896618.17 14896618.23 14896618.28 0.2653 0.2220 *

Saturn 36077-09-09 11:17 G 14898165.80 14898165.97 14898166.15 0.0292 0.0084

Saturn 36077-12-07 11:45 G 14898254.83 14898254.99 14898255.16 0.0293 0.0124

Jupiter 36078-05-27 11:17 G 14898425.83 14898425.97 14898426.11 0.0505 0.0323

Uranus 36078-07-06 18:29 G 14898466.23 14898466.27 14898466.32 0.0144 0.0134

Jupiter 36078-08-25 21:50 G 14898516.38 14898516.41 14898516.45 0.0507 0.0496

Uranus 36078-10-02 22:05 G 14898554.35 14898554.42 14898554.51 0.0144 0.0113

Mars 36078-10-03 06:29 G 14898554.67 14898554.77 14898554.87 0.1902 0.0982

Uranus 36078-12-30 01:41 G 14898642.48 14898642.57 14898642.68 0.0144 0.0092

Uranus 36079-03-28 05:31 G 14898730.62 14898730.73 14898730.85 0.0144 0.0070

Uranus 36079-06-24 09:07 G 14898818.76 14898818.88 14898819.01 0.0144 0.0049

Uranus 36079-09-20 12:57 G 14898906.91 14898907.04 14898907.17 0.0144 0.0027

Uranus 36079-12-17 16:48 G 14898995.06 14898995.20 14898995.33 0.0144 0.0006

Uranus 36080-03-14 20:24 G 14899083.22 14899083.35 14899083.49 0.0144 0.0017

Moon 36080-06-07 18:29 G 14899168.18 14899168.27 14899168.36 0.2647 0.1474

Earth 36080-06-07 18:29 G 14899168.18 14899168.27 14899168.37 0.2653 0.1394 *

Uranus 36080-06-11 00:14 G 14899171.38 14899171.51 14899171.64 0.0144 0.0039

Uranus 36080-09-07 04:05 G 14899259.55 14899259.67 14899259.79 0.0144 0.0061

Uranus 36080-12-04 07:55 G 14899347.72 14899347.83 14899347.94 0.0144 0.0083

Uranus 36081-03-02 11:45 G 14899435.90 14899435.99 14899436.09 0.0144 0.0105

Uranus 36081-05-29 15:36 G 14899524.10 14899524.15 14899524.22 0.0144 0.0128

Earth 36083-12-09 23:02 G 14900448.31 14900448.46 14900448.61 0.2678 0.1080

Moon 36083-12-10 00:43 G 14900448.38 14900448.53 14900448.69 0.2679 0.0743 *

Jupiter 36084-01-18 15:36 G 14900488.06 14900488.15 14900488.24 0.0521 0.0355

Jupiter 36084-04-16 20:38 G 14900577.25 14900577.36 14900577.47 0.0519 0.0236

Mars 36087-04-29 23:02 G 14901685.33 14901685.46 14901685.58 0.1644 0.1017

Jupiter 36090-06-13 19:41 G 14902826.18 14902826.32 14902826.47 0.0507 0.0305

Saturn 36090-10-18 08:38 G 14902952.78 14902952.86 14902952.95 0.0272 0.0211

Saturn 36091-01-14 19:12 G 14903041.17 14903041.30 14903041.42 0.0271 0.0095

Saturn 36091-04-13 05:31 G 14903129.60 14903129.73 14903129.86 0.0270 0.0021

Saturn 36091-07-10 15:50 G 14903218.05 14903218.16 14903218.28 0.0269 0.0135

Saturn 36091-10-07 02:09 G 14903306.55 14903306.59 14903306.64 0.0268 0.0250

Moon 36093-06-10 11:02 G 14903918.85 14903918.96 14903919.07 0.2652 0.0159

Earth 36093-06-10 11:45 G 14903918.88 14903918.99 14903919.10 0.2653 0.0111 *

Jupiter 36095-11-06 19:55 G 14904798.30 14904798.33 14904798.37 0.0522 0.0502

Jupiter 36096-02-04 00:57 G 14904887.42 14904887.54 14904887.67 0.0519 0.0089

Mars 36096-09-19 01:12 G 14905115.39 14905115.55 14905115.72 0.1639 0.0293

Earth 36096-12-12 07:55 G 14905199.73 14905199.83 14905199.93 0.2678 0.2055

Moon 36096-12-12 09:36 G 14905199.81 14905199.90 14905199.99 0.2677 0.2240 *

Venus 36099-03-27 07:55 G 14906034.76 14906034.83 14906034.91 0.3686 0.2465

Mars 36099-06-21 14:38 G 14906121.08 14906121.11 14906121.14 0.1888 0.1812

Jupiter 36102-04-02 16:48 G 14907136.02 14907136.20 14907136.38 0.0506 0.0103

Venus 36104-10-11 00:29 G 14908058.42 14908058.52 14908058.63 0.3685 0.0521

Mars 36106-02-10 03:21 G 14908545.62 14908545.64 14908545.67 0.1634 0.1609

Moon 36106-06-14 04:19 G 14908669.58 14908669.68 14908669.78 0.2655 0.1086

Earth 36106-06-14 05:02 G 14908669.61 14908669.71 14908669.80 0.2653 0.1187 *

Saturn 36107-01-28 08:38 G 14908897.70 14908897.86 14908898.01 0.0291 0.0153

Saturn 36107-04-27 09:07 G 14908986.70 14908986.88 14908987.06 0.0293 0.0055

Saturn 36107-07-25 09:21 G 14909075.81 14909075.89 14909075.98 0.0294 0.0261

Jupiter 36107-11-24 05:31 G 14909197.60 14909197.73 14909197.85 0.0520 0.0058

Mars 36108-11-11 22:33 G 14909551.32 14909551.44 14909551.55 0.1895 0.0492

Venus 36110-04-26 17:02 G 14910082.11 14910082.21 14910082.31 0.3685 0.1462

Moon 36113-06-07 06:14 G 14911219.72 14911219.76 14911219.81 0.2647 0.2423

Earth 36113-06-07 06:14 G 14911219.72 14911219.76 14911219.80 0.2654 0.2396 *

Jupiter 36114-01-19 13:26 G 14911445.88 14911446.06 14911446.24 0.0505 0.0102

Venus 36114-04-26 04:48 G 14911542.56 14911542.70 14911542.84 0.3686 0.0773

Venus 36115-11-10 09:50 G 14912105.88 14912105.91 14912105.94 0.3684 0.3496

Mars 36118-04-04 06:29 G 14912981.67 14912981.77 14912981.88 0.1901 0.0826

Uranus 36119-05-11 05:31 G 14913383.68 14913383.73 14913383.79 0.0135 0.0128

Moon 36119-06-16 22:05 G 14913420.38 14913420.42 14913420.45 0.2660 0.2455

Earth 36119-06-16 22:05 G 14913420.39 14913420.42 14913420.46 0.2653 0.2489 *

Uranus 36119-08-07 12:29 G 14913471.91 14913472.02 14913472.15 0.0135 0.0103

Jupiter 36119-09-12 10:19 G 14913507.81 14913507.93 14913508.04 0.0521 0.0197

Uranus 36119-11-03 19:12 G 14913560.16 14913560.30 14913560.47 0.0135 0.0078

Jupiter 36119-12-10 15:21 G 14913597.06 14913597.14 14913597.23 0.0519 0.0398

Uranus 36120-01-31 02:09 G 14913648.43 14913648.59 14913648.77 0.0134 0.0053

Saturn 36120-03-07 10:48 G 14913684.90 14913684.95 14913685.00 0.0272 0.0248

Uranus 36120-04-28 09:07 G 14913736.70 14913736.88 14913737.07 0.0134 0.0028

Saturn 36120-06-03 21:07 G 14913773.27 14913773.38 14913773.50 0.0271 0.0133

Uranus 36120-07-25 16:05 G 14913824.98 14913825.17 14913825.36 0.0134 0.0003

Saturn 36120-08-31 07:26 G 14913861.68 14913861.81 14913861.95 0.0270 0.0020

Uranus 36120-10-21 22:48 G 14913913.26 14913913.45 14913913.63 0.0134 0.0022

Saturn 36120-11-27 18:00 G 14913950.12 14913950.25 14913950.37 0.0269 0.0097

Uranus 36121-01-18 05:31 G 14914001.55 14914001.73 14914001.90 0.0134 0.0047

Saturn 36121-02-24 04:19 G 14914038.60 14914038.68 14914038.76 0.0268 0.0211

Uranus 36121-04-16 11:45 G 14914089.85 14914089.99 14914090.16 0.0134 0.0072

Uranus 36121-07-13 18:29 G 14914178.15 14914178.27 14914178.41 0.0134 0.0095

Uranus 36121-10-10 00:57 G 14914266.47 14914266.54 14914266.64 0.0134 0.0119

Neptune 36124-05-30 00:57 G 14915229.53 14915229.54 14915229.58 0.0089 0.0088

Neptune 36124-08-26 04:33 G 14915317.61 14915317.69 14915317.80 0.0089 0.0077

Neptune 36124-11-22 08:24 G 14915405.72 14915405.85 14915405.98 0.0089 0.0066

Neptune 36125-02-18 11:31 G 14915493.85 14915493.98 14915494.15 0.0089 0.0056

Neptune 36125-05-17 15:07 G 14915581.98 14915582.13 14915582.31 0.0089 0.0045

Neptune 36125-08-13 18:57 G 14915670.11 14915670.29 14915670.47 0.0089 0.0034

Jupiter 36125-11-07 09:50 G 14915755.77 14915755.91 14915756.06 0.0505 0.0310

Neptune 36125-11-09 22:19 G 14915758.25 14915758.43 14915758.62 0.0089 0.0024

Neptune 36126-02-06 01:55 G 14915846.39 14915846.58 14915846.77 0.0089 0.0013

Neptune 36126-05-05 05:31 G 14915934.54 14915934.73 14915934.92 0.0089 0.0003

Moon 36126-06-09 23:02 G 14915970.36 14915970.46 14915970.56 0.2648 0.1117

Earth 36126-06-09 23:17 G 14915970.38 14915970.47 14915970.57 0.2653 0.1128 *

Neptune 36126-08-01 08:53 G 14916022.68 14916022.87 14916023.06 0.0089 0.0008

Neptune 36126-10-28 12:14 G 14916110.83 14916111.01 14916111.20 0.0089 0.0019

Mars 36126-10-29 23:45 G 14916112.38 14916112.49 14916112.59 0.1644 0.1230

Neptune 36127-01-24 15:36 G 14916198.98 14916199.15 14916199.34 0.0089 0.0030

Neptune 36127-04-22 19:12 G 14916287.14 14916287.30 14916287.47 0.0089 0.0040

Neptune 36127-07-19 22:19 G 14916375.29 14916375.43 14916375.60 0.0089 0.0051

Neptune 36127-10-16 01:55 G 14916463.45 14916463.58 14916463.73 0.0089 0.0061

Neptune 36128-01-12 05:31 G 14916551.62 14916551.73 14916551.85 0.0089 0.0071

Neptune 36128-04-09 08:38 G 14916639.80 14916639.86 14916639.95 0.0089 0.0082

Earth 36129-12-11 06:00 G 14917250.59 14917250.75 14917250.91 0.2678 0.0477

Moon 36129-12-11 07:55 G 14917250.67 14917250.83 14917250.99 0.2679 0.0350 *

Jupiter 36131-07-01 15:07 G 14917818.03 14917818.13 14917818.22 0.0522 0.0336

Jupiter 36131-09-28 20:09 G 14917907.23 14917907.34 14917907.45 0.0519 0.0257

Mars 36136-03-21 01:55 G 14919542.41 14919542.58 14919542.74 0.1639 0.0101

Saturn 36136-06-16 03:21 G 14919629.54 14919629.64 14919629.76 0.0291 0.0237

Saturn 36136-09-13 04:19 G 14919718.50 14919718.68 14919718.86 0.0292 0.0029

Saturn 36136-12-11 04:33 G 14919807.55 14919807.69 14919807.84 0.0293 0.0178

Jupiter 36137-11-24 18:29 G 14920156.13 14920156.27 14920156.41 0.0507 0.0317

Moon 36139-06-12 15:50 G 14920721.05 14920721.16 14920721.27 0.2652 0.0004

Earth 36139-06-12 16:33 G 14920721.08 14920721.19 14920721.30 0.2653 0.0162 *

Pluto 36141-06-22 09:07 G 14921461.79 14921461.88 14921461.99 0.0075 0.0063

Pluto 36141-09-18 11:45 G 14921549.84 14921549.99 14921550.16 0.0075 0.0044

Pluto 36141-12-15 14:24 G 14921637.92 14921638.10 14921638.30 0.0075 0.0025

Pluto 36142-03-13 17:02 G 14921726.02 14921726.21 14921726.42 0.0075 0.0006

Pluto 36142-06-09 19:41 G 14921814.13 14921814.32 14921814.52 0.0074 0.0013

Pluto 36142-09-05 22:05 G 14921902.25 14921902.42 14921902.61 0.0074 0.0033

Pluto 36142-12-03 00:29 G 14921990.40 14921990.52 14921990.68 0.0074 0.0051

Earth 36142-12-14 14:38 G 14922002.09 14922002.11 14922002.14 0.2679 0.2635

Pluto 36143-03-01 02:53 G 14922078.58 14922078.62 14922078.71 0.0074 0.0070

Jupiter 36143-04-19 19:12 G 14922128.26 14922128.30 14922128.34 0.0521 0.0489

Jupiter 36143-07-18 00:00 G 14922217.38 14922217.50 14922217.63 0.0519 0.0102

Mars 36145-08-11 04:05 G 14922972.59 14922972.67 14922972.75 0.1634 0.1417

Mars 36148-05-12 22:33 G 14923978.33 14923978.44 14923978.55 0.1895 0.0654

Jupiter 36149-09-12 16:05 G 14924465.99 14924466.17 14924466.35 0.0507 0.0125

Saturn 36149-10-21 23:31 G 14924505.38 14924505.48 14924505.58 0.0272 0.0172

Saturn 36150-01-18 09:50 G 14924593.78 14924593.91 14924594.04 0.0271 0.0056

Saturn 36150-04-16 20:09 G 14924682.21 14924682.34 14924682.47 0.0270 0.0060

Saturn 36150-07-14 06:29 G 14924770.68 14924770.77 14924770.88 0.0269 0.0175

Moon 36152-06-14 09:07 G 14925471.79 14925471.88 14925471.97 0.2657 0.1414

Earth 36152-06-14 09:36 G 14925471.81 14925471.90 14925471.99 0.2653 0.1451 *

Jupiter 36155-05-06 04:33 G 14926527.56 14926527.69 14926527.82 0.0520 0.0045

Venus 36155-11-02 05:45 G 14926707.64 14926707.74 14926707.83 0.3686 0.1780

Mars 36157-10-03 06:43 G 14927408.67 14927408.78 14927408.88 0.1901 0.0669

Moon 36159-06-08 11:02 G 14928021.89 14928021.96 14928022.02 0.2646 0.2084

Earth 36159-06-08 11:02 G 14928021.90 14928021.96 14928022.02 0.2653 0.2138 *

Venus 36161-05-17 22:05 G 14928731.32 14928731.42 14928731.53 0.3685 0.0231

Jupiter 36161-07-01 13:12 G 14928775.87 14928776.05 14928776.23 0.0506 0.0078

Uranus 36162-07-28 01:41 G 14929167.53 14929167.57 14929167.64 0.0144 0.0129

Uranus 36162-10-24 05:31 G 14929255.65 14929255.73 14929255.82 0.0144 0.0107

Uranus 36163-01-20 09:21 G 14929343.78 14929343.89 14929343.99 0.0144 0.0086

Uranus 36163-04-18 12:57 G 14929431.92 14929432.04 14929432.16 0.0144 0.0065

Uranus 36163-07-15 16:33 G 14929520.07 14929520.19 14929520.32 0.0144 0.0043

Uranus 36163-10-11 20:24 G 14929608.22 14929608.35 14929608.48 0.0144 0.0021

Uranus 36164-01-08 00:14 G 14929696.37 14929696.51 14929696.64 0.0144 0.0004

Uranus 36164-04-05 03:50 G 14929784.53 14929784.66 14929784.80 0.0144 0.0023

Uranus 36164-07-02 07:41 G 14929872.69 14929872.82 14929872.95 0.0144 0.0045

Uranus 36164-09-28 11:31 G 14929960.86 14929960.98 14929961.10 0.0144 0.0067

Uranus 36164-12-25 15:07 G 14930049.03 14930049.13 14930049.25 0.0144 0.0090

Uranus 36165-03-23 19:12 G 14930137.22 14930137.30 14930137.39 0.0144 0.0112

Venus 36165-05-17 01:26 G 14930191.44 14930191.56 14930191.67 0.3685 0.2266

Uranus 36165-06-19 23:02 G 14930225.42 14930225.46 14930225.51 0.0144 0.0134

Saturn 36166-01-31 01:12 G 14930450.37 14930450.55 14930450.72 0.0292 0.0101

Saturn 36166-04-30 01:41 G 14930539.40 14930539.57 14930539.74 0.0293 0.0107

Mars 36166-04-30 00:14 G 14930539.43 14930539.51 14930539.59 0.1644 0.1429 *

Venus 36166-12-01 14:53 G 14930755.03 14930755.12 14930755.20 0.3684 0.2179

Jupiter 36167-02-22 08:53 G 14930837.76 14930837.87 14930837.99 0.0521 0.0193

Jupiter 36167-05-22 14:09 G 14930927.01 14930927.09 14930927.17 0.0519 0.0402

Venus 36170-12-01 05:31 G 14932215.61 14932215.73 14932215.84 0.3686 0.2233

Moon 36172-06-10 03:36 G 14932772.55 14932772.65 14932772.75 0.2649 0.0978

Earth 36172-06-10 04:05 G 14932772.57 14932772.67 14932772.77 0.2653 0.0864 *

Jupiter 36173-04-19 09:50 G 14933085.76 14933085.91 14933086.07 0.0505 0.0281

Mars 36175-09-20 02:38 G 14933969.44 14933969.61 14933969.77 0.1639 0.0119

Earth 36175-12-12 12:57 G 14934052.87 14934053.04 14934053.20 0.2678 0.0138

Moon 36175-12-12 14:38 G 14934052.95 14934053.11 14934053.27 0.2679 0.0469 *

Jupiter 36178-12-11 13:55 G 14935147.98 14935148.08 14935148.17 0.0521 0.0331

Jupiter 36179-03-10 18:57 G 14935237.18 14935237.29 14935237.40 0.0519 0.0262

Saturn 36179-03-11 01:26 G 14935237.48 14935237.56 14935237.64 0.0272 0.0211

Saturn 36179-06-07 11:45 G 14935325.87 14935325.99 14935326.12 0.0271 0.0096

Saturn 36179-09-03 22:19 G 14935414.29 14935414.43 14935414.56 0.0270 0.0021

Saturn 36179-12-01 08:38 G 14935502.75 14935502.86 14935502.97 0.0269 0.0135

Saturn 36180-02-27 18:57 G 14935591.25 14935591.29 14935591.34 0.0268 0.0249

Jupiter 36185-02-05 06:14 G 14937395.73 14937395.76 14937395.81 0.0505 0.0489

Mars 36185-02-09 04:33 G 14937399.59 14937399.69 14937399.80 0.1634 0.1208

Jupiter 36185-05-06 17:31 G 14937486.10 14937486.23 14937486.37 0.0507 0.0333

Moon 36185-06-12 20:38 G 14937523.25 14937523.36 14937523.47 0.2652 0.0387

Earth 36185-06-12 21:21 G 14937523.28 14937523.39 14937523.49 0.2653 0.0428 *

Mars 36187-11-11 22:33 G 14938405.33 14938405.44 14938405.54 0.1894 0.0803

Jupiter 36190-09-29 18:43 G 14939458.23 14939458.28 14939458.33 0.0522 0.0470

Jupiter 36190-12-27 23:45 G 14939547.36 14939547.49 14939547.61 0.0520 0.0123

Saturn 36195-06-19 19:41 G 14941182.19 14941182.32 14941182.47 0.0291 0.0188

Saturn 36195-09-16 20:38 G 14941271.17 14941271.36 14941271.54 0.0292 0.0020

Saturn 36195-12-14 20:53 G 14941360.26 14941360.37 14941360.49 0.0293 0.0227

Jupiter 36197-02-22 15:07 G 14941795.96 14941796.13 14941796.31 0.0506 0.0141

Mars 36197-04-03 06:29 G 14941835.66 14941835.77 14941835.88 0.1901 0.0521

Moon 36198-06-15 13:55 G 14942274.00 14942274.08 14942274.17 0.2658 0.1604

Earth 36198-06-15 14:24 G 14942274.02 14942274.10 14942274.18 0.2653 0.1716 *

Jupiter 36202-10-17 03:50 G 14943857.53 14943857.66 14943857.79 0.0520 0.0031

Uranus 36203-06-01 13:12 G 14944084.97 14944085.05 14944085.14 0.0135 0.0120

Uranus 36203-08-28 19:55 G 14944173.21 14944173.33 14944173.48 0.0135 0.0095

Uranus 36203-11-25 02:53 G 14944261.47 14944261.62 14944261.79 0.0135 0.0070

Uranus 36204-02-21 09:50 G 14944349.74 14944349.91 14944350.09 0.0134 0.0044

Uranus 36204-05-19 16:48 G 14944438.01 14944438.20 14944438.39 0.0134 0.0019

Uranus 36204-08-15 23:31 G 14944526.30 14944526.48 14944526.67 0.0134 0.0006

Uranus 36204-11-12 06:14 G 14944614.58 14944614.76 14944614.95 0.0134 0.0030

Neptune 36204-12-16 22:05 G 14944649.38 14944649.42 14944649.47 0.0088 0.0083

Uranus 36205-02-08 12:57 G 14944702.87 14944703.04 14944703.21 0.0134 0.0055

Neptune 36205-03-14 23:31 G 14944737.41 14944737.48 14944737.55 0.0088 0.0076

Uranus 36205-05-07 19:26 G 14944791.17 14944791.31 14944791.47 0.0134 0.0079

Moon 36205-06-09 15:36 G 14944824.08 14944824.15 14944824.23 0.2647 0.1898

Earth 36205-06-09 15:36 G 14944824.08 14944824.15 14944824.23 0.2653 0.1881 *

Neptune 36205-06-11 00:43 G 14944825.45 14944825.53 14944825.62 0.0088 0.0069

Uranus 36205-08-04 01:55 G 14944879.48 14944879.58 14944879.71 0.0134 0.0104

Neptune 36205-09-07 01:55 G 14944913.50 14944913.58 14944913.69 0.0088 0.0062

Mars 36205-10-30 00:43 G 14944966.51 14944966.53 14944966.56 0.1644 0.1620

Uranus 36205-10-31 08:38 G 14944967.81 14944967.86 14944967.93 0.0134 0.0127

Neptune 36205-12-04 03:21 G 14945001.54 14945001.64 14945001.75 0.0088 0.0054

Neptune 36206-03-02 04:48 G 14945089.59 14945089.70 14945089.81 0.0088 0.0047

Neptune 36206-05-29 06:00 G 14945177.64 14945177.75 14945177.88 0.0088 0.0040

Neptune 36206-08-25 07:26 G 14945265.69 14945265.81 14945265.94 0.0088 0.0032

Mars 36206-08-25 14:53 G 14945266.08 14945266.12 14945266.15 0.1907 0.1825

Neptune 36206-11-21 08:38 G 14945353.74 14945353.86 14945354.00 0.0088 0.0025

Venus 36206-11-24 10:48 G 14945356.90 14945356.95 14945357.01 0.3686 0.3018

Neptune 36207-02-17 10:05 G 14945441.79 14945441.92 14945442.05 0.0088 0.0018

Neptune 36207-05-16 11:31 G 14945529.85 14945529.98 14945530.11 0.0088 0.0010

Neptune 36207-08-12 12:43 G 14945617.90 14945618.03 14945618.17 0.0088 0.0004

Neptune 36207-11-08 14:09 G 14945705.96 14945706.09 14945706.22 0.0088 0.0004

Neptune 36208-02-04 15:36 G 14945794.01 14945794.15 14945794.28 0.0088 0.0012

Neptune 36208-05-02 16:48 G 14945882.07 14945882.20 14945882.33 0.0088 0.0019

Saturn 36208-07-29 03:21 G 14945969.60 14945969.64 14945969.69 0.0273 0.0254

Neptune 36208-07-29 18:00 G 14945970.13 14945970.25 14945970.39 0.0088 0.0027

Saturn 36208-10-25 13:55 G 14946057.96 14946058.08 14946058.19 0.0272 0.0137

Neptune 36208-10-25 19:26 G 14946058.19 14946058.31 14946058.44 0.0088 0.0034 *

Earth 36208-12-10 10:33 G 14946103.88 14946103.94 14946104.00 0.2678 0.2474

Moon 36208-12-10 12:29 G 14946103.93 14946104.02 14946104.11 0.2681 0.2206 *

Jupiter 36208-12-12 12:43 G 14946105.85 14946106.03 14946106.21 0.0506 0.0055

Neptune 36209-01-21 20:38 G 14946146.25 14946146.36 14946146.49 0.0088 0.0042

Saturn 36209-01-22 00:14 G 14946146.38 14946146.51 14946146.64 0.0271 0.0021 *

Neptune 36209-04-19 22:05 G 14946234.32 14946234.42 14946234.54 0.0088 0.0049

Saturn 36209-04-20 10:33 G 14946234.82 14946234.94 14946235.07 0.0270 0.0095

Neptune 36209-07-16 23:31 G 14946322.38 14946322.48 14946322.59 0.0088 0.0056

Saturn 36209-07-17 21:07 G 14946323.30 14946323.38 14946323.46 0.0269 0.0210

Neptune 36209-10-13 00:43 G 14946410.45 14946410.53 14946410.63 0.0088 0.0063

Neptune 36210-01-09 02:09 G 14946498.52 14946498.59 14946498.68 0.0088 0.0071

Neptune 36210-04-07 03:21 G 14946586.59 14946586.64 14946586.72 0.0088 0.0078

Neptune 36210-07-04 04:48 G 14946674.68 14946674.70 14946674.74 0.0088 0.0086

Venus 36212-06-09 03:21 G 14947380.54 14947380.64 14947380.74 0.3685 0.1087

Jupiter 36214-08-05 08:24 G 14948167.73 14948167.85 14948167.97 0.0520 0.0176

Jupiter 36214-11-02 13:26 G 14948256.98 14948257.06 14948257.13 0.0518 0.0416

Mars 36215-03-22 03:07 G 14948396.47 14948396.63 14948396.79 0.1639 0.0312

Venus 36217-12-23 19:55 G 14949404.23 14949404.33 14949404.43 0.3685 0.0886

Moon 36218-06-12 08:09 G 14949574.74 14949574.84 14949574.95 0.2649 0.0648

Earth 36218-06-12 08:53 G 14949574.76 14949574.87 14949574.97 0.2653 0.0602 *

Jupiter 36220-09-30 09:36 G 14950415.74 14950415.90 14950416.06 0.0505 0.0256

Earth 36221-12-13 19:41 G 14950855.16 14950855.32 14950855.47 0.2678 0.0696

Moon 36221-12-13 21:21 G 14950855.24 14950855.39 14950855.55 0.2678 0.0814 *

Venus 36221-12-23 02:09 G 14950864.45 14950864.59 14950864.73 0.3685 0.0730

Venus 36223-07-09 12:43 G 14951427.96 14951428.03 14951428.09 0.3684 0.2912

Mars 36224-08-11 05:17 G 14951826.59 14951826.72 14951826.85 0.1634 0.1007

Saturn 36224-11-06 16:19 G 14951914.11 14951914.18 14951914.27 0.0290 0.0261

Saturn 36225-02-03 17:17 G 14952003.04 14952003.22 14952003.40 0.0292 0.0053

Saturn 36225-05-03 17:31 G 14952092.08 14952092.23 14952092.39 0.0293 0.0154

Jupiter 36226-05-24 12:43 G 14952477.93 14952478.03 14952478.13 0.0521 0.0323

Jupiter 36226-08-21 17:45 G 14952567.13 14952567.24 14952567.35 0.0519 0.0270

Mars 36227-05-13 22:19 G 14952832.33 14952832.43 14952832.54 0.1895 0.0956

Moon 36231-06-15 01:26 G 14954325.45 14954325.56 14954325.66 0.2654 0.0541

Earth 36231-06-15 01:55 G 14954325.48 14954325.58 14954325.69 0.2653 0.0692 *

Jupiter 36232-07-19 06:29 G 14954725.70 14954725.77 14954725.85 0.0505 0.0459

Jupiter 36232-10-17 17:31 G 14954816.11 14954816.23 14954816.36 0.0507 0.0364

Mars 36236-10-03 06:43 G 14956262.66 14956262.78 14956262.89 0.1901 0.0359

Jupiter 36238-03-12 17:31 G 14956788.18 14956788.23 14956788.29 0.0522 0.0463

Saturn 36238-03-14 15:50 G 14956790.06 14956790.16 14956790.26 0.0272 0.0177

Jupiter 36238-06-09 22:33 G 14956877.32 14956877.44 14956877.56 0.0520 0.0129

Saturn 36238-06-11 02:09 G 14956878.46 14956878.59 14956878.72 0.0271 0.0061

Saturn 36238-09-07 12:29 G 14956966.89 14956967.02 14956967.15 0.0270 0.0055

Saturn 36238-12-04 23:02 G 14957055.35 14957055.46 14957055.56 0.0269 0.0170

Moon 36244-06-16 18:43 G 14959076.21 14959076.28 14959076.35 0.2659 0.1981

Earth 36244-06-16 19:12 G 14959076.23 14959076.30 14959076.37 0.2653 0.1978 *

Jupiter 36244-08-05 14:24 G 14959125.93 14959126.10 14959126.27 0.0506 0.0158

Mars 36246-02-23 14:38 G 14959693.06 14959693.11 14959693.16 0.1907 0.1695

Uranus 36246-05-22 06:14 G 14959780.74 14959780.76 14959780.78 0.0144 0.0141

Uranus 36246-08-18 09:50 G 14959868.84 14959868.91 14959868.98 0.0144 0.0120

Uranus 36246-11-14 13:26 G 14959956.97 14959957.06 14959957.16 0.0144 0.0099

Uranus 36247-02-10 17:02 G 14960045.11 14960045.21 14960045.33 0.0144 0.0078

Uranus 36247-05-09 20:53 G 14960133.25 14960133.37 14960133.49 0.0144 0.0056

Uranus 36247-08-06 00:29 G 14960221.40 14960221.52 14960221.66 0.0144 0.0035

Uranus 36247-11-02 04:19 G 14960309.55 14960309.68 14960309.82 0.0144 0.0013

Uranus 36248-01-29 08:09 G 14960397.70 14960397.84 14960397.97 0.0144 0.0009

Uranus 36248-04-26 12:00 G 14960485.86 14960486.00 14960486.13 0.0144 0.0032

Uranus 36248-07-23 15:36 G 14960574.03 14960574.15 14960574.28 0.0144 0.0054

Uranus 36248-10-19 19:26 G 14960662.20 14960662.31 14960662.43 0.0144 0.0076

Uranus 36249-01-15 23:17 G 14960750.38 14960750.47 14960750.57 0.0144 0.0098

Uranus 36249-04-14 03:21 G 14960838.56 14960838.64 14960838.71 0.0144 0.0121

Uranus 36249-07-11 06:57 G 14960926.79 14960926.79 14960926.81 0.0144 0.0144

Jupiter 36250-03-29 03:21 G 14961187.51 14961187.64 14961187.77 0.0520 0.0010

Moon 36251-06-10 20:09 G 14961626.26 14961626.34 14961626.43 0.2647 0.1641

Earth 36251-06-10 20:24 G 14961626.27 14961626.35 14961626.44 0.2653 0.1617 *

Saturn 36254-06-23 11:45 G 14962734.83 14962734.99 14962735.16 0.0291 0.0141

Mars 36254-09-20 03:36 G 14962823.50 14962823.65 14962823.81 0.1639 0.0506

Saturn 36254-09-20 12:29 G 14962823.84 14962824.02 14962824.20 0.0292 0.0066

Earth 36254-12-11 17:31 G 14962906.11 14962906.23 14962906.34 0.2678 0.1879

Moon 36254-12-11 19:12 G 14962906.18 14962906.30 14962906.43 0.2681 0.1680 *

Saturn 36254-12-18 12:43 G 14962912.97 14962913.03 14962913.10 0.0293 0.0273

Jupiter 36256-05-24 12:00 G 14963435.81 14963436.00 14963436.18 0.0506 0.0038

Jupiter 36262-01-15 07:41 G 14965497.70 14965497.82 14965497.94 0.0520 0.0161

Jupiter 36262-04-14 12:43 G 14965586.96 14965587.03 14965587.10 0.0518 0.0431

Venus 36263-07-01 08:38 G 14966029.78 14966029.86 14966029.94 0.3686 0.2330

Mars 36264-02-10 06:00 G 14966253.60 14966253.75 14966253.89 0.1634 0.0809

Moon 36264-06-12 12:57 G 14966376.93 14966377.04 14966377.15 0.2649 0.0456

Earth 36264-06-12 13:41 G 14966376.96 14966377.07 14966377.17 0.2653 0.0351 *

Mars 36266-11-11 22:33 G 14967259.35 14967259.44 14967259.53 0.1894 0.1130

Saturn 36267-08-01 17:31 G 14967522.16 14967522.23 14967522.31 0.0273 0.0221

Saturn 36267-10-29 04:05 G 14967610.55 14967610.67 14967610.79 0.0272 0.0104

Earth 36267-12-15 02:38 G 14967657.46 14967657.61 14967657.75 0.2679 0.1284

Moon 36267-12-15 04:05 G 14967657.54 14967657.67 14967657.80 0.2676 0.1567 *

Saturn 36268-01-25 14:24 G 14967698.97 14967699.10 14967699.23 0.0271 0.0014

Jupiter 36268-03-12 09:07 G 14967745.72 14967745.88 14967746.04 0.0506 0.0235

Saturn 36268-04-23 00:57 G 14967787.42 14967787.54 14967787.65 0.0270 0.0129

Saturn 36268-07-20 11:17 G 14967875.92 14967875.97 14967876.03 0.0269 0.0244

Venus 36269-01-14 00:57 G 14968053.44 14968053.54 14968053.65 0.3685 0.0412

Jupiter 36273-11-03 12:00 G 14969807.90 14969808.00 14969808.11 0.0521 0.0306

Jupiter 36274-01-31 17:02 G 14969897.11 14969897.21 14969897.32 0.0518 0.0286

Venus 36274-07-30 17:45 G 14970077.14 14970077.24 14970077.33 0.3685 0.1611

Mars 36276-04-03 06:29 G 14970689.66 14970689.77 14970689.89 0.1901 0.0212

Moon 36277-06-15 06:00 G 14971127.65 14971127.75 14971127.86 0.2656 0.0915

Earth 36277-06-15 06:43 G 14971127.68 14971127.78 14971127.88 0.2653 0.0947 *

Venus 36278-07-30 03:07 G 14971537.49 14971537.63 14971537.77 0.3685 0.0792

Jupiter 36279-12-30 06:00 G 14972055.66 14972055.75 14972055.85 0.0505 0.0436

Venus 36280-02-13 10:19 G 14972100.92 14972100.93 14972100.94 0.3684 0.3653

Jupiter 36280-03-29 17:17 G 14972146.11 14972146.22 14972146.34 0.0507 0.0388

Saturn 36283-11-10 08:38 G 14973466.74 14973466.86 14973466.99 0.0290 0.0211

Saturn 36284-02-07 09:21 G 14973555.71 14973555.89 14973556.08 0.0291 0.0005

Saturn 36284-05-06 09:36 G 14973644.78 14973644.90 14973645.04 0.0293 0.0203

Earth 36284-06-08 08:09 G 14973677.82 14973677.84 14973677.85 0.2653 0.2626

Moon 36284-06-08 08:24 G 14973677.84 14973677.85 14973677.86 0.2647 0.2617 *

Jupiter 36285-08-22 16:33 G 14974118.13 14974118.19 14974118.25 0.0521 0.0453

Mars 36285-08-24 14:38 G 14974120.04 14974120.11 14974120.18 0.1907 0.1527

Jupiter 36285-11-19 21:21 G 14974207.27 14974207.39 14974207.52 0.0519 0.0140

Uranus 36287-06-21 20:53 G 14974786.28 14974786.37 14974786.49 0.0135 0.0111

Uranus 36287-09-18 03:50 G 14974874.53 14974874.66 14974874.82 0.0135 0.0086

Uranus 36287-12-15 10:48 G 14974962.79 14974962.95 14974963.13 0.0134 0.0061

Uranus 36288-03-12 17:45 G 14975051.06 14975051.24 14975051.43 0.0134 0.0035

Uranus 36288-06-09 00:43 G 14975139.34 14975139.53 14975139.72 0.0134 0.0010

Uranus 36288-09-05 07:26 G 14975227.63 14975227.81 14975228.00 0.0134 0.0015

Uranus 36288-12-02 14:09 G 14975315.92 14975316.09 14975316.27 0.0134 0.0039

Neptune 36289-02-24 22:33 G 14975400.41 14975400.44 14975400.51 0.0089 0.0086

Uranus 36289-02-28 20:38 G 14975404.21 14975404.36 14975404.54 0.0134 0.0064

Neptune 36289-05-24 02:09 G 14975488.50 14975488.59 14975488.71 0.0089 0.0075

Uranus 36289-05-28 03:21 G 14975492.51 14975492.64 14975492.79 0.0134 0.0088

Neptune 36289-08-20 06:00 G 14975576.62 14975576.75 14975576.88 0.0089 0.0064

Uranus 36289-08-24 09:50 G 14975580.83 14975580.91 14975581.03 0.0134 0.0112

Neptune 36289-11-16 09:07 G 14975664.75 14975664.88 14975665.05 0.0089 0.0054

Neptune 36290-02-12 12:57 G 14975752.88 14975753.04 14975753.22 0.0089 0.0043

Neptune 36290-05-11 16:33 G 14975841.02 14975841.19 14975841.37 0.0089 0.0032

Moon 36290-06-17 23:31 G 14975878.42 14975878.48 14975878.54 0.2658 0.2143

Earth 36290-06-18 00:00 G 14975878.44 14975878.50 14975878.55 0.2653 0.2247 *

Neptune 36290-08-07 20:09 G 14975929.15 14975929.34 14975929.53 0.0089 0.0021

Neptune 36290-11-03 23:31 G 14976017.30 14976017.48 14976017.68 0.0089 0.0011

Neptune 36291-01-31 03:07 G 14976105.44 14976105.63 14976105.82 0.0089 0.0001

Neptune 36291-04-29 06:29 G 14976193.59 14976193.77 14976193.97 0.0089 0.0011

Neptune 36291-07-26 10:05 G 14976281.74 14976281.92 14976282.11 0.0089 0.0021

Neptune 36291-10-22 13:26 G 14976369.89 14976370.06 14976370.25 0.0089 0.0032

Jupiter 36292-01-16 14:24 G 14976455.93 14976456.10 14976456.27 0.0506 0.0187

Neptune 36292-01-18 17:02 G 14976458.04 14976458.21 14976458.38 0.0089 0.0042

Neptune 36292-04-15 20:09 G 14976546.20 14976546.34 14976546.51 0.0089 0.0053

Neptune 36292-07-13 00:00 G 14976634.37 14976634.50 14976634.63 0.0089 0.0063

Neptune 36292-10-09 03:07 G 14976722.54 14976722.63 14976722.75 0.0089 0.0074

Neptune 36293-01-05 06:43 G 14976810.73 14976810.78 14976810.84 0.0089 0.0084

Mars 36294-03-21 04:19 G 14977250.54 14977250.68 14977250.83 0.1639 0.0716

Saturn 36296-12-18 19:26 G 14978254.28 14978254.31 14978254.35 0.0273 0.0261

Saturn 36297-03-17 06:00 G 14978342.64 14978342.75 14978342.86 0.0272 0.0144

Moon 36297-06-11 00:57 G 14978428.44 14978428.54 14978428.63 0.2648 0.1378

Earth 36297-06-11 01:12 G 14978428.46 14978428.55 14978428.64 0.2653 0.1356 *

Saturn 36297-06-13 16:19 G 14978431.05 14978431.18 14978431.31 0.0271 0.0028

Jupiter 36297-09-08 02:09 G 14978517.46 14978517.59 14978517.72 0.0520 0.0010

Saturn 36297-09-10 02:53 G 14978519.49 14978519.62 14978519.74 0.0270 0.0089

Saturn 36297-12-07 13:12 G 14978607.97 14978608.05 14978608.14 0.0269 0.0204

Earth 36300-12-13 00:29 G 14979708.37 14979708.52 14979708.66 0.2678 0.1282

Moon 36300-12-13 02:09 G 14979708.44 14979708.59 14979708.74 0.2680 0.1053 *

Pluto 36301-04-14 17:45 G 14979831.20 14979831.24 14979831.30 0.0069 0.0063

Pluto 36301-07-11 18:14 G 14979919.19 14979919.26 14979919.35 0.0069 0.0053

Pluto 36301-10-07 18:43 G 14980007.19 14980007.28 14980007.39 0.0069 0.0044

Pluto 36302-01-03 19:26 G 14980095.20 14980095.31 14980095.43 0.0070 0.0033

Pluto 36302-04-01 20:09 G 14980183.22 14980183.34 14980183.46 0.0070 0.0023

Pluto 36302-06-28 20:38 G 14980271.23 14980271.36 14980271.49 0.0070 0.0013

Pluto 36302-09-24 21:07 G 14980359.25 14980359.38 14980359.52 0.0070 0.0003

Pluto 36302-12-21 21:50 G 14980447.28 14980447.41 14980447.54 0.0070 0.0008

Pluto 36303-03-19 22:05 G 14980535.31 14980535.42 14980535.56 0.0070 0.0020

Pluto 36303-06-15 22:48 G 14980623.34 14980623.45 14980623.57 0.0070 0.0029

Mars 36303-08-12 06:29 G 14980680.62 14980680.77 14980680.92 0.1634 0.0605

Pluto 36303-09-11 23:31 G 14980711.37 14980711.48 14980711.59 0.0070 0.0040

Jupiter 36303-11-05 11:02 G 14980765.78 14980765.96 14980766.14 0.0506 0.0019

Pluto 36303-12-08 23:45 G 14980799.41 14980799.49 14980799.59 0.0070 0.0051

Pluto 36304-03-06 00:29 G 14980887.46 14980887.52 14980887.59 0.0071 0.0061

Mars 36306-05-13 22:19 G 14981686.35 14981686.43 14981686.52 0.1894 0.1269

Jupiter 36309-06-28 06:57 G 14982827.67 14982827.79 14982827.92 0.0521 0.0143

Jupiter 36309-09-25 12:14 G 14982916.95 14982917.01 14982917.07 0.0519 0.0451

Moon 36310-06-14 17:45 G 14983179.13 14983179.24 14983179.35 0.2650 0.0148

Earth 36310-06-14 18:14 G 14983179.16 14983179.26 14983179.37 0.2653 0.0122 *

Saturn 36313-06-27 04:19 G 14984287.51 14984287.68 14984287.86 0.0291 0.0090

Saturn 36313-09-24 04:48 G 14984376.53 14984376.70 14984376.87 0.0292 0.0117

Earth 36313-12-16 09:21 G 14984459.78 14984459.89 14984460.01 0.2679 0.1865

Moon 36313-12-16 11:02 G 14984459.85 14984459.96 14984460.06 0.2675 0.2002 *

Venus 36314-07-23 13:55 G 14984679.05 14984679.08 14984679.10 0.3686 0.3559

Jupiter 36315-08-24 08:24 G 14985075.68 14985075.85 14985076.02 0.0505 0.0216

Mars 36315-10-04 06:29 G 14985116.66 14985116.77 14985116.89 0.1901 0.0080

Venus 36320-02-06 06:14 G 14986702.67 14986702.76 14986702.86 0.3686 0.1639

Jupiter 36321-04-16 11:31 G 14987137.87 14987137.98 14987138.08 0.0520 0.0291

Jupiter 36321-07-14 16:19 G 14987227.08 14987227.18 14987227.29 0.0518 0.0300

Moon 36323-06-17 10:48 G 14987929.86 14987929.95 14987930.05 0.2656 0.1096

Earth 36323-06-17 11:31 G 14987929.88 14987929.98 14987930.07 0.2653 0.1212 *

Mars 36325-02-23 14:38 G 14988547.03 14988547.11 14988547.19 0.1907 0.1367

Venus 36325-08-21 22:48 G 14988726.34 14988726.45 14988726.55 0.3685 0.0326

Saturn 36326-08-05 07:41 G 14989074.73 14989074.82 14989074.92 0.0273 0.0188

Saturn 36326-11-01 18:14 G 14989163.13 14989163.26 14989163.39 0.0272 0.0070

Saturn 36327-01-29 04:33 G 14989251.56 14989251.69 14989251.83 0.0271 0.0048

Saturn 36327-04-27 15:07 G 14989340.03 14989340.13 14989340.24 0.0270 0.0163

Jupiter 36327-06-12 05:17 G 14989385.62 14989385.72 14989385.82 0.0506 0.0418

Jupiter 36327-09-10 16:33 G 14989476.08 14989476.19 14989476.30 0.0508 0.0407

Venus 36329-08-20 23:31 G 14990186.37 14990186.48 14990186.60 0.3685 0.2270

Moon 36330-06-10 12:57 G 14990479.99 14990480.04 14990480.09 0.2647 0.2286

Earth 36330-06-10 12:43 G 14990479.99 14990480.03 14990480.08 0.2653 0.2368 *

Uranus 36330-06-12 13:55 G 14990482.04 14990482.08 14990482.13 0.0144 0.0134

Uranus 36330-09-08 17:31 G 14990570.15 14990570.23 14990570.31 0.0144 0.0113

Uranus 36330-12-05 21:07 G 14990658.28 14990658.38 14990658.49 0.0144 0.0092

Uranus 36331-03-04 00:57 G 14990746.42 14990746.54 14990746.66 0.0144 0.0070

Venus 36331-03-07 15:21 G 14990750.06 14990750.14 14990750.22 0.3684 0.2327

Uranus 36331-05-31 04:33 G 14990834.57 14990834.69 14990834.82 0.0144 0.0049

Uranus 36331-08-27 08:24 G 14990922.72 14990922.85 14990922.98 0.0144 0.0027

Uranus 36331-11-23 12:00 G 14991010.87 14991011.00 14991011.14 0.0144 0.0007

Uranus 36332-02-19 15:50 G 14991099.03 14991099.16 14991099.30 0.0144 0.0017

Uranus 36332-05-17 19:41 G 14991187.19 14991187.32 14991187.45 0.0144 0.0039

Uranus 36332-08-13 23:31 G 14991275.36 14991275.48 14991275.60 0.0144 0.0061

Uranus 36332-11-10 03:07 G 14991363.53 14991363.63 14991363.75 0.0144 0.0084

Jupiter 36333-02-02 15:50 G 14991448.10 14991448.16 14991448.23 0.0521 0.0435

Uranus 36333-02-06 07:12 G 14991451.71 14991451.80 14991451.89 0.0144 0.0106

Jupiter 36333-05-02 20:53 G 14991537.25 14991537.37 14991537.49 0.0519 0.0155

Uranus 36333-05-05 10:48 G 14991539.91 14991539.95 14991540.02 0.0144 0.0130

Mars 36333-09-20 05:02 G 14991677.57 14991677.71 14991677.84 0.1640 0.0916

Venus 36335-03-07 03:50 G 14992210.55 14992210.66 14992210.77 0.3686 0.2280

Moon 36336-06-19 04:33 G 14992680.66 14992680.69 14992680.72 0.2659 0.2536

Earth 36336-06-19 04:48 G 14992680.66 14992680.70 14992680.73 0.2653 0.2509 *

Jupiter 36339-06-29 13:41 G 14993785.91 14993786.07 14993786.24 0.0507 0.0207

Saturn 36342-11-14 01:26 G 14995019.41 14995019.56 14995019.72 0.0290 0.0158

Mars 36343-02-10 07:12 G 14995107.64 14995107.80 14995107.96 0.1634 0.0401

Saturn 36343-02-11 02:09 G 14995108.41 14995108.59 14995108.77 0.0291 0.0049

Saturn 36343-05-11 02:09 G 14995197.51 14995197.59 14995197.69 0.0293 0.0256

Moon 36343-06-13 05:31 G 14995230.63 14995230.73 14995230.83 0.2647 0.1189

Earth 36343-06-13 06:00 G 14995230.65 14995230.75 14995230.84 0.2653 0.1098 *

Jupiter 36345-02-19 01:12 G 14995847.42 14995847.55 14995847.68 0.0520 0.0008

Mars 36345-11-11 22:33 G 14996113.36 14996113.44 14996113.51 0.1894 0.1430

Earth 36346-12-14 07:12 G 14996510.65 14996510.80 14996510.96 0.2678 0.0693

Moon 36346-12-14 09:07 G 14996510.72 14996510.88 14996511.04 0.2679 0.0427 *

Jupiter 36351-04-17 10:48 G 14998095.76 14998095.95 14998096.13 0.0506 0.0010

Mars 36355-04-04 06:29 G 14999543.66 14999543.77 14999543.89 0.1900 0.0124

Saturn 36355-12-23 09:50 G 14999806.84 14999806.91 14999806.99 0.0273 0.0226

Saturn 36356-03-20 20:24 G 14999895.23 14999895.35 14999895.47 0.0272 0.0108

Moon 36356-06-14 22:19 G 14999981.33 14999981.43 14999981.54 0.2652 0.0147

Earth 36356-06-14 23:02 G 14999981.35 14999981.46 14999981.57 0.2653 0.0186 *

Saturn 36356-06-17 06:43 G 14999983.65 14999983.78 14999983.92 0.0271 0.0012

Saturn 36356-09-13 17:17 G 15000072.10 15000072.22 15000072.34 0.0270 0.0125

Jupiter 36356-12-08 05:45 G 15000157.62 15000157.74 15000157.86 0.0520 0.0138

Saturn 36356-12-11 03:36 G 15000160.60 15000160.65 15000160.71 0.0269 0.0241

Jupiter 36357-03-07 10:48 G 15000246.90 15000246.95 15000247.01 0.0518 0.0457

Earth 36359-12-17 16:19 G 15001262.12 15001262.18 15001262.24 0.2679 0.2450

Moon 36359-12-17 17:45 G 15001262.24 15001262.24 15001262.25 0.2674 0.2672 *

Jupiter 36363-02-03 07:12 G 15002405.63 15002405.80 15002405.97 0.0505 0.0202

Mars 36364-08-24 14:38 G 15002974.02 15002974.11 15002974.20 0.1907 0.1224

Jupiter 36368-09-26 10:33 G 15004467.84 15004467.94 15004468.05 0.0521 0.0277

Jupiter 36368-12-24 15:36 G 15004557.05 15004557.15 15004557.25 0.0519 0.0316

Moon 36369-06-17 15:36 G 15004732.06 15004732.15 15004732.24 0.2657 0.1419

Earth 36369-06-17 16:19 G 15004732.09 15004732.18 15004732.27 0.2653 0.1478 *

Neptune 36369-06-17 20:09 G 15004732.34 15004732.34 15004732.35 0.0088 0.0088

Neptune 36369-09-13 21:21 G 15004820.35 15004820.39 15004820.45 0.0088 0.0081

Neptune 36369-12-10 23:02 G 15004908.39 15004908.46 15004908.53 0.0088 0.0074

Neptune 36370-03-09 00:14 G 15004996.43 15004996.51 15004996.60 0.0088 0.0067

Neptune 36370-06-05 01:26 G 15005084.47 15005084.56 15005084.66 0.0088 0.0060

Neptune 36370-09-01 02:38 G 15005172.51 15005172.61 15005172.73 0.0088 0.0053

Neptune 36370-11-28 04:05 G 15005260.56 15005260.67 15005260.79 0.0088 0.0045

Neptune 36371-02-24 05:31 G 15005348.61 15005348.73 15005348.85 0.0088 0.0038

Venus 36371-02-27 11:31 G 15005351.92 15005351.98 15005352.04 0.3686 0.2880

Uranus 36371-04-15 22:19 G 15005399.37 15005399.43 15005399.50 0.0135 0.0126

Neptune 36371-05-23 06:43 G 15005436.66 15005436.78 15005436.91 0.0088 0.0031

Uranus 36371-07-13 05:02 G 15005487.60 15005487.71 15005487.85 0.0135 0.0101

Neptune 36371-08-19 08:09 G 15005524.71 15005524.84 15005524.97 0.0088 0.0023

Uranus 36371-10-09 12:29 G 15005575.86 15005576.02 15005576.18 0.0134 0.0075

Neptune 36371-11-15 09:21 G 15005612.77 15005612.89 15005613.03 0.0088 0.0016

Uranus 36372-01-05 19:12 G 15005664.13 15005664.30 15005664.48 0.0134 0.0050

Neptune 36372-02-11 10:48 G 15005700.82 15005700.95 15005701.09 0.0088 0.0009

Saturn 36372-04-01 21:07 G 15005751.28 15005751.38 15005751.49 0.0290 0.0237

Uranus 36372-04-03 02:09 G 15005752.41 15005752.59 15005752.78 0.0134 0.0025

Neptune 36372-05-09 12:14 G 15005788.87 15005789.01 15005789.14 0.0088 0.0002

Saturn 36372-06-29 21:50 G 15005840.23 15005840.41 15005840.59 0.0291 0.0031

Uranus 36372-06-30 09:07 G 15005840.69 15005840.88 15005841.07 0.0134 0.0002

Neptune 36372-08-05 13:26 G 15005876.93 15005877.06 15005877.20 0.0088 0.0007

Uranus 36372-09-26 15:50 G 15005928.98 15005929.16 15005929.34 0.0134 0.0025

Saturn 36372-09-26 22:05 G 15005929.28 15005929.42 15005929.57 0.0292 0.0176 *

Neptune 36372-11-01 14:53 G 15005964.99 15005965.12 15005965.25 0.0088 0.0013

Uranus 36372-12-23 22:19 G 15006017.27 15006017.43 15006017.61 0.0134 0.0050

Neptune 36373-01-28 16:05 G 15006053.05 15006053.17 15006053.31 0.0088 0.0021

Mars 36373-03-21 05:31 G 15006104.61 15006104.73 15006104.85 0.1639 0.1110

Uranus 36373-03-22 05:02 G 15006105.57 15006105.71 15006105.87 0.0134 0.0074

Neptune 36373-04-26 17:31 G 15006141.10 15006141.23 15006141.36 0.0088 0.0028

Uranus 36373-06-18 11:45 G 15006193.87 15006193.99 15006194.12 0.0134 0.0098

Neptune 36373-07-23 18:43 G 15006229.16 15006229.28 15006229.41 0.0088 0.0036

Uranus 36373-09-14 18:29 G 15006282.20 15006282.27 15006282.34 0.0134 0.0122

Neptune 36373-10-19 19:55 G 15006317.23 15006317.33 15006317.46 0.0088 0.0044

Neptune 36374-01-15 21:21 G 15006405.29 15006405.39 15006405.51 0.0088 0.0051

Neptune 36374-04-13 22:48 G 15006493.36 15006493.45 15006493.56 0.0088 0.0058

Neptune 36374-07-11 00:00 G 15006581.42 15006581.50 15006581.60 0.0088 0.0065

Neptune 36374-10-07 01:26 G 15006669.49 15006669.56 15006669.65 0.0088 0.0073

Jupiter 36374-11-22 04:19 G 15006715.57 15006715.68 15006715.79 0.0505 0.0401

Neptune 36375-01-03 02:53 G 15006757.57 15006757.62 15006757.68 0.0088 0.0080

Jupiter 36375-02-20 15:21 G 15006806.05 15006806.14 15006806.25 0.0507 0.0423

Neptune 36375-04-01 04:05 G 15006845.67 15006845.67 15006845.70 0.0088 0.0088

Moon 36376-06-10 17:31 G 15007282.17 15007282.23 15007282.29 0.2647 0.2153

Earth 36376-06-10 17:31 G 15007282.17 15007282.23 15007282.29 0.2653 0.2108 *

Venus 36376-09-12 03:50 G 15007375.56 15007375.66 15007375.77 0.3686 0.0957

Jupiter 36380-07-15 15:07 G 15008778.06 15008778.13 15008778.20 0.0521 0.0422

Jupiter 36380-10-12 19:55 G 15008867.21 15008867.33 15008867.45 0.0519 0.0167

Venus 36382-03-28 20:24 G 15009399.25 15009399.35 15009399.45 0.3685 0.1030

Mars 36382-08-11 07:41 G 15009534.66 15009534.82 15009534.99 0.1635 0.0208

Saturn 36385-05-11 11:45 G 15010538.97 15010538.99 15010539.01 0.0274 0.0269

Mars 36385-05-12 22:33 G 15010540.38 15010540.44 15010540.50 0.1894 0.1597

Saturn 36385-08-07 22:19 G 15010627.32 15010627.43 15010627.54 0.0273 0.0151

Saturn 36385-11-04 08:38 G 15010715.73 15010715.86 15010715.99 0.0272 0.0033

Saturn 36386-01-31 19:12 G 15010804.17 15010804.30 15010804.42 0.0271 0.0084

Venus 36386-03-28 00:29 G 15010859.38 15010859.52 15010859.66 0.3685 0.0719

Saturn 36386-04-30 05:31 G 15010892.65 15010892.73 15010892.82 0.0270 0.0201

Jupiter 36386-12-09 12:29 G 15011115.86 15011116.02 15011116.19 0.0507 0.0221

Pluto 36387-02-21 20:38 G 15011190.34 15011190.36 15011190.42 0.0075 0.0074

Pluto 36387-05-20 23:17 G 15011278.35 15011278.47 15011278.63 0.0075 0.0054

Pluto 36387-08-17 01:55 G 15011366.42 15011366.58 15011366.78 0.0075 0.0035

Venus 36387-10-12 13:12 G 15011422.99 15011423.05 15011423.11 0.3684 0.3060

Pluto 36387-11-13 05:02 G 15011454.51 15011454.71 15011454.90 0.0075 0.0015

Pluto 36388-02-09 07:41 G 15011542.62 15011542.82 15011543.02 0.0075 0.0004

Pluto 36388-05-07 09:50 G 15011630.74 15011630.91 15011631.12 0.0074 0.0024

Pluto 36388-08-03 12:14 G 15011718.87 15011719.01 15011719.20 0.0074 0.0043

Pluto 36388-10-30 15:21 G 15011807.03 15011807.14 15011807.26 0.0074 0.0061

Moon 36389-06-13 10:19 G 15012032.82 15012032.93 15012033.03 0.2648 0.0852

Earth 36389-06-13 10:33 G 15012032.84 15012032.94 15012033.05 0.2653 0.0840 *

Mars 36392-01-01 10:05 G 15012964.86 15012964.92 15012964.97 0.1630 0.1513

Jupiter 36392-08-01 00:29 G 15013177.39 15013177.52 15013177.65 0.0519 0.0022

Earth 36392-12-14 14:09 G 15013312.93 15013313.09 15013313.25 0.2679 0.0099

Moon 36392-12-14 16:05 G 15013313.00 15013313.17 15013313.33 0.2677 0.0067 *

Mars 36394-10-03 06:43 G 15013970.66 15013970.78 15013970.89 0.1900 0.0277

Jupiter 36398-09-27 09:36 G 15015425.72 15015425.90 15015426.09 0.0506 0.0019

Saturn 36401-11-16 19:41 G 15016572.15 15016572.32 15016572.50 0.0290 0.0092

Saturn 36402-02-13 20:09 G 15016661.17 15016661.34 15016661.51 0.0291 0.0114

Moon 36402-06-16 03:07 G 15016783.52 15016783.63 15016783.74 0.2654 0.0318

Earth 36402-06-16 03:50 G 15016783.55 15016783.66 15016783.76 0.2653 0.0452 *

Mars 36404-02-23 14:38 G 15017401.01 15017401.11 15017401.20 0.1907 0.1067

Jupiter 36404-05-20 04:48 G 15017487.57 15017487.70 15017487.82 0.0520 0.0131

Jupiter 36404-08-17 09:50 G 15017576.85 15017576.91 15017576.96 0.0518 0.0462

Jupiter 36410-07-16 06:29 G 15019735.60 15019735.77 15019735.94 0.0506 0.0184

Mars 36412-09-19 06:14 G 15020531.66 15020531.76 15020531.85 0.1640 0.1315

Uranus 36414-07-02 21:21 G 15021183.34 15021183.39 15021183.46 0.0144 0.0127

Uranus 36414-09-29 01:12 G 15021271.47 15021271.55 15021271.64 0.0144 0.0105

Saturn 36414-12-26 00:29 G 15021359.43 15021359.52 15021359.62 0.0273 0.0187

Uranus 36414-12-26 04:48 G 15021359.60 15021359.70 15021359.81 0.0144 0.0084 *

Uranus 36415-03-24 08:38 G 15021447.74 15021447.86 15021447.98 0.0144 0.0062

Saturn 36415-03-24 11:02 G 15021447.83 15021447.96 15021448.09 0.0272 0.0069 *

Moon 36415-06-18 20:24 G 15021534.27 15021534.35 15021534.44 0.2657 0.1659

Earth 36415-06-18 20:53 G 15021534.29 15021534.37 15021534.45 0.2653 0.1740 *

Uranus 36415-06-20 12:14 G 15021535.89 15021536.01 15021536.14 0.0144 0.0041

Saturn 36415-06-20 21:36 G 15021536.27 15021536.40 15021536.53 0.0271 0.0049

Uranus 36415-09-16 16:05 G 15021624.04 15021624.17 15021624.31 0.0144 0.0019

Saturn 36415-09-17 07:55 G 15021624.73 15021624.83 15021624.94 0.0270 0.0165

Uranus 36415-12-13 19:55 G 15021712.19 15021712.33 15021712.46 0.0144 0.0003

Jupiter 36416-03-08 09:21 G 15021797.78 15021797.89 15021797.99 0.0521 0.0275

Uranus 36416-03-10 23:45 G 15021800.35 15021800.49 15021800.62 0.0144 0.0025

Jupiter 36416-06-05 14:24 G 15021887.00 15021887.10 15021887.20 0.0519 0.0318

Uranus 36416-06-07 03:21 G 15021888.52 15021888.64 15021888.77 0.0144 0.0048

Uranus 36416-09-03 07:12 G 15021976.69 15021976.80 15021976.92 0.0144 0.0070

Uranus 36416-11-30 11:02 G 15022064.86 15022064.96 15022065.07 0.0144 0.0092

Uranus 36417-02-26 14:53 G 15022153.05 15022153.12 15022153.21 0.0144 0.0115

Uranus 36417-05-25 18:43 G 15022241.25 15022241.28 15022241.33 0.0144 0.0137

Mars 36422-02-09 08:24 G 15023961.69 15023961.85 15023962.02 0.1635 0.0028

Jupiter 36422-05-04 02:53 G 15024045.51 15024045.62 15024045.74 0.0505 0.0393

Moon 36422-06-11 22:05 G 15024084.34 15024084.42 15024084.50 0.2647 0.1807

Earth 36422-06-11 22:19 G 15024084.35 15024084.43 15024084.51 0.2653 0.1845 *

Jupiter 36422-08-02 13:55 G 15024135.99 15024136.08 15024136.18 0.0507 0.0431

Mars 36424-11-10 22:33 G 15024967.40 15024967.44 15024967.48 0.1894 0.1746

Moon 36425-12-12 13:41 G 15025364.03 15025364.07 15025364.10 0.2682 0.2599

Venus 36427-10-04 09:07 G 15026024.80 15026024.88 15026024.97 0.3686 0.2196

Jupiter 36427-12-26 13:55 G 15026108.01 15026108.08 15026108.16 0.0521 0.0415

Jupiter 36428-03-24 18:57 G 15026197.17 15026197.29 15026197.41 0.0519 0.0177

Saturn 36431-04-05 16:05 G 15027304.02 15027304.17 15027304.32 0.0290 0.0167

Mars 36431-07-02 10:33 G 15027391.84 15027391.94 15027392.03 0.1630 0.1322

Saturn 36431-07-03 16:33 G 15027393.01 15027393.19 15027393.37 0.0291 0.0039

Saturn 36431-09-30 16:33 G 15027482.10 15027482.19 15027482.30 0.0292 0.0245

Venus 36433-04-19 01:41 G 15028048.46 15028048.57 15028048.67 0.3685 0.0292

Mars 36434-04-03 06:29 G 15028397.66 15028397.77 15028397.89 0.1900 0.0424

Jupiter 36434-05-21 11:17 G 15028445.81 15028445.97 15028446.13 0.0507 0.0232

Moon 36435-06-14 14:53 G 15028835.02 15028835.12 15028835.23 0.2649 0.0697

Earth 36435-06-14 15:21 G 15028835.04 15028835.14 15028835.25 0.2653 0.0575 *

Venus 36438-11-02 18:14 G 15030072.16 15030072.26 15030072.35 0.3685 0.1747

Earth 36438-12-15 21:07 G 15030115.22 15030115.38 15030115.54 0.2679 0.0499

Moon 36438-12-15 23:02 G 15030115.30 15030115.46 15030115.61 0.2676 0.0831 *

Jupiter 36440-01-11 23:31 G 15030507.35 15030507.48 15030507.60 0.0519 0.0032

Venus 36442-11-02 01:12 G 15031532.41 15031532.55 15031532.69 0.3685 0.0786

Mars 36443-08-24 14:38 G 15031828.01 15031828.11 15031828.21 0.1906 0.0897

Saturn 36444-05-14 02:38 G 15032091.54 15032091.61 15032091.69 0.0274 0.0228

Saturn 36444-08-10 13:12 G 15032179.93 15032180.05 15032180.17 0.0273 0.0109

Saturn 36444-11-06 23:45 G 15032268.35 15032268.49 15032268.62 0.0272 0.0012

Saturn 36445-02-03 10:05 G 15032356.81 15032356.92 15032357.04 0.0271 0.0127

Saturn 36445-05-02 20:38 G 15032445.31 15032445.36 15032445.42 0.0270 0.0244

Jupiter 36446-03-09 07:55 G 15032755.64 15032755.83 15032756.01 0.0507 0.0025

Moon 36448-06-16 07:55 G 15033585.72 15033585.83 15033585.93 0.2654 0.0666

Earth 36448-06-16 08:24 G 15033585.75 15033585.85 15033585.96 0.2653 0.0714 *

Jupiter 36451-10-31 03:50 G 15034817.54 15034817.66 15034817.79 0.0520 0.0117

Jupiter 36452-01-28 08:53 G 15034906.82 15034906.87 15034906.92 0.0517 0.0474

Mars 36452-03-20 06:57 G 15034958.73 15034958.79 15034958.84 0.1640 0.1522

Neptune 36453-11-22 19:41 G 15035571.29 15035571.32 15035571.40 0.0089 0.0085

Neptune 36454-02-18 23:31 G 15035659.39 15035659.48 15035659.60 0.0089 0.0074

Neptune 36454-05-18 03:07 G 15035747.50 15035747.63 15035747.77 0.0089 0.0063

Neptune 36454-08-14 06:57 G 15035835.63 15035835.79 15035835.94 0.0089 0.0052

Neptune 36454-11-10 10:05 G 15035923.76 15035923.92 15035924.10 0.0089 0.0042

Neptune 36455-02-06 13:41 G 15036011.90 15036012.07 15036012.26 0.0089 0.0031

Neptune 36455-05-05 17:31 G 15036100.04 15036100.23 15036100.41 0.0089 0.0020

Uranus 36455-05-06 06:43 G 15036100.69 15036100.78 15036100.88 0.0135 0.0115

Neptune 36455-08-01 20:53 G 15036188.18 15036188.37 15036188.56 0.0089 0.0010

Uranus 36455-08-02 13:41 G 15036188.94 15036189.07 15036189.22 0.0134 0.0089

Neptune 36455-10-29 00:29 G 15036276.33 15036276.52 15036276.71 0.0089 0.0001

Uranus 36455-10-29 20:38 G 15036277.20 15036277.36 15036277.53 0.0134 0.0064

Neptune 36456-01-25 03:50 G 15036364.48 15036364.66 15036364.85 0.0089 0.0012

Uranus 36456-01-26 03:36 G 15036365.48 15036365.65 15036365.84 0.0134 0.0039

Neptune 36456-04-22 07:12 G 15036452.63 15036452.80 15036453.00 0.0089 0.0023

Uranus 36456-04-23 10:33 G 15036453.75 15036453.94 15036454.13 0.0134 0.0014

Neptune 36456-07-19 10:48 G 15036540.78 15036540.95 15036541.13 0.0089 0.0033

Uranus 36456-07-20 17:31 G 15036542.04 15036542.23 15036542.41 0.0134 0.0011

Neptune 36456-10-15 14:09 G 15036628.93 15036629.09 15036629.27 0.0089 0.0044

Uranus 36456-10-17 00:00 G 15036630.33 15036630.50 15036630.69 0.0134 0.0036

Neptune 36457-01-11 17:45 G 15036717.09 15036717.24 15036717.39 0.0089 0.0054

Uranus 36457-01-13 06:43 G 15036718.62 15036718.78 15036718.95 0.0134 0.0060

Neptune 36457-04-09 20:53 G 15036805.26 15036805.37 15036805.52 0.0089 0.0065

Uranus 36457-04-11 13:12 G 15036806.92 15036807.05 15036807.21 0.0134 0.0085

Neptune 36457-07-07 00:29 G 15036893.43 15036893.52 15036893.63 0.0089 0.0075

Uranus 36457-07-08 19:55 G 15036895.24 15036895.33 15036895.45 0.0134 0.0109

Neptune 36457-10-03 03:36 G 15036981.63 15036981.65 15036981.72 0.0089 0.0086

Uranus 36457-10-05 02:24 G 15036983.60 15036983.60 15036983.64 0.0134 0.0133

Jupiter 36457-12-26 04:48 G 15037065.53 15037065.70 15037065.87 0.0506 0.0179

Saturn 36460-08-22 14:38 G 15038036.00 15038036.11 15038036.23 0.0289 0.0221

Saturn 36460-11-19 15:21 G 15038124.95 15038125.14 15038125.32 0.0290 0.0016

Saturn 36461-02-16 15:36 G 15038214.01 15038214.15 15038214.29 0.0292 0.0191

Moon 36461-06-19 01:26 G 15038336.48 15038336.56 15038336.63 0.2658 0.1940

Earth 36461-06-19 01:41 G 15038336.50 15038336.57 15038336.64 0.2653 0.2002 *

Mars 36461-08-10 09:07 G 15038388.72 15038388.88 15038389.04 0.1635 0.0205

Jupiter 36463-08-19 07:55 G 15039127.73 15039127.83 15039127.94 0.0520 0.0270

Jupiter 36463-11-16 12:57 G 15039216.94 15039217.04 15039217.14 0.0518 0.0322

Moon 36468-06-12 02:53 G 15040886.53 15040886.62 15040886.70 0.2646 0.1656

Earth 36468-06-12 03:07 G 15040886.54 15040886.63 15040886.71 0.2653 0.1586 *

Jupiter 36469-10-14 01:26 G 15041375.45 15041375.56 15041375.69 0.0505 0.0383

Jupiter 36470-01-12 12:43 G 15041465.95 15041466.03 15041466.12 0.0507 0.0443

Mars 36470-12-31 11:17 G 15041818.85 15041818.97 15041819.09 0.1630 0.1108

Earth 36471-12-13 18:57 G 15042166.19 15042166.29 15042166.39 0.2678 0.2085

Moon 36471-12-13 20:38 G 15042166.24 15042166.36 15042166.48 0.2680 0.1766 *

Saturn 36473-10-01 05:17 G 15042823.69 15042823.72 15042823.76 0.0274 0.0261

Mars 36473-10-02 06:43 G 15042824.66 15042824.78 15042824.89 0.1900 0.0589

Saturn 36473-12-28 15:50 G 15042912.05 15042912.16 15042912.27 0.0273 0.0142

Saturn 36474-03-27 02:24 G 15043000.47 15043000.60 15043000.73 0.0272 0.0024

Saturn 36474-06-23 12:43 G 15043088.91 15043089.03 15043089.16 0.0271 0.0095

Saturn 36474-09-19 23:17 G 15043177.39 15043177.47 15043177.56 0.0270 0.0211

Jupiter 36475-06-07 12:29 G 15043437.95 15043438.02 15043438.10 0.0521 0.0416

Jupiter 36475-09-04 17:31 G 15043527.11 15043527.23 15043527.35 0.0519 0.0176

Venus 36478-10-25 14:24 G 15044674.07 15044674.10 15044674.14 0.3687 0.3433

Moon 36481-06-14 19:26 G 15045637.21 15045637.31 15045637.42 0.2650 0.0350

Earth 36481-06-14 20:09 G 15045637.23 15045637.34 15045637.45 0.2653 0.0311 *

Jupiter 36481-10-31 09:21 G 15045775.73 15045775.89 15045776.05 0.0507 0.0234

Mars 36483-02-22 14:38 G 15046255.00 15046255.11 15046255.21 0.1906 0.0765

Venus 36484-05-10 06:43 G 15046697.69 15046697.78 15046697.88 0.3686 0.1520

Earth 36484-12-16 04:05 G 15046917.52 15046917.67 15046917.82 0.2679 0.1090

Moon 36484-12-16 06:00 G 15046917.60 15046917.75 15046917.89 0.2676 0.1205 *

Jupiter 36487-06-23 22:05 G 15047837.29 15047837.42 15047837.55 0.0520 0.0033

Venus 36489-11-23 23:17 G 15048721.36 15048721.47 15048721.58 0.3685 0.0453

Saturn 36490-01-09 12:00 G 15048767.99 15048768.00 15048768.04 0.0289 0.0286

Saturn 36490-04-08 12:57 G 15048856.86 15048857.04 15048857.21 0.0290 0.0080

Saturn 36490-07-06 13:12 G 15048945.89 15048946.05 15048946.22 0.0291 0.0126

Jupiter 36493-08-19 06:14 G 15050085.58 15050085.76 15050085.95 0.0506 0.0033

Venus 36493-11-22 21:36 G 15050181.29 15050181.40 15050181.52 0.3685 0.2315

Moon 36494-06-17 12:43 G 15050387.92 15050388.03 15050388.13 0.2654 0.0832

Earth 36494-06-17 13:12 G 15050387.95 15050388.05 15050388.15 0.2653 0.0976 *

Venus 36495-06-09 15:50 G 15050745.08 15050745.16 15050745.24 0.3684 0.2468

Uranus 36498-04-26 00:57 G 15051796.54 15051796.54 15051796.55 0.0144 0.0143

Uranus 36498-07-23 04:33 G 15051884.63 15051884.69 15051884.76 0.0144 0.0122

Uranus 36498-10-19 08:24 G 15051972.76 15051972.85 15051972.94 0.0144 0.0101

Uranus 36499-01-15 12:00 G 15052060.89 15052061.00 15052061.11 0.0144 0.0080

Jupiter 36499-04-12 02:38 G 15052147.48 15052147.61 15052147.73 0.0520 0.0112

Uranus 36499-04-13 15:36 G 15052149.03 15052149.15 15052149.28 0.0144 0.0058

Venus 36499-06-09 02:09 G 15052205.48 15052205.59 15052205.70 0.3686 0.2304

Jupiter 36499-07-10 07:41 G 15052236.77 15052236.82 15052236.87 0.0518 0.0478

Uranus 36499-07-10 19:26 G 15052237.18 15052237.31 15052237.44 0.0144 0.0036

Uranus 36499-10-06 23:17 G 15052325.33 15052325.47 15052325.60 0.0144 0.0015

Uranus 36500-01-03 02:53 G 15052413.49 15052413.62 15052413.76 0.0144 0.0008

Uranus 36500-04-01 06:43 G 15052501.65 15052501.78 15052501.91 0.0144 0.0029

Uranus 36500-06-28 10:33 G 15052589.81 15052589.94 15052590.06 0.0144 0.0052

Uranus 36500-09-24 14:09 G 15052677.98 15052678.09 15052678.21 0.0144 0.0075

Uranus 36500-12-21 18:14 G 15052766.16 15052766.26 15052766.36 0.0144 0.0096

Mars 36501-02-09 09:36 G 15052815.75 15052815.90 15052816.06 0.1635 0.0407

Uranus 36501-03-19 21:50 G 15052854.35 15052854.41 15052854.50 0.0144 0.0120

Earth 36501-06-11 14:38 G 15052938.09 15052938.11 15052938.13 0.2653 0.2592

Moon 36501-06-11 14:53 G 15052938.10 15052938.12 15052938.14 0.2647 0.2565 *

Uranus 36501-06-16 01:55 G 15052942.56 15052942.58 15052942.61 0.0145 0.0142

Saturn 36503-05-18 18:14 G 15053644.16 15053644.26 15053644.36 0.0274 0.0180

Saturn 36503-08-15 04:33 G 15053732.57 15053732.69 15053732.82 0.0273 0.0062

Saturn 36503-11-11 15:07 G 15053821.00 15053821.13 15053821.26 0.0272 0.0057

Saturn 36504-02-08 01:41 G 15053909.47 15053909.57 15053909.67 0.0271 0.0175

Jupiter 36505-06-08 02:24 G 15054395.43 15054395.60 15054395.78 0.0506 0.0182

Moon 36507-06-21 06:14 G 15055138.71 15055138.76 15055138.81 0.2659 0.2272

Earth 36507-06-21 06:29 G 15055138.72 15055138.77 15055138.82 0.2653 0.2262 *

Mars 36510-07-02 11:45 G 15056245.86 15056245.99 15056246.13 0.1630 0.0909

Jupiter 36511-01-30 06:57 G 15056457.69 15056457.79 15056457.90 0.0520 0.0260

Jupiter 36511-04-29 12:00 G 15056546.90 15056547.00 15056547.10 0.0518 0.0331

Mars 36513-04-03 06:29 G 15057251.67 15057251.77 15057251.88 0.1900 0.0738

Moon 36514-06-14 07:26 G 15057688.72 15057688.81 15057688.91 0.2647 0.1318

Earth 36514-06-14 07:41 G 15057688.73 15057688.82 15057688.92 0.2653 0.1328 *

Jupiter 36517-03-26 23:17 G 15058705.35 15058705.47 15058705.59 0.0506 0.0386

Jupiter 36517-06-25 10:33 G 15058795.86 15058795.94 15058796.03 0.0508 0.0441

Earth 36517-12-15 01:41 G 15058968.44 15058968.57 15058968.71 0.2679 0.1490

Moon 36517-12-15 03:36 G 15058968.51 15058968.65 15058968.79 0.2678 0.1330 *

Saturn 36519-08-27 12:00 G 15059588.84 15059589.00 15059589.17 0.0290 0.0130

Saturn 36519-11-24 12:29 G 15059677.84 15059678.02 15059678.20 0.0291 0.0076

Saturn 36520-02-21 12:43 G 15059766.99 15059767.03 15059767.08 0.0292 0.0281

Mars 36522-08-24 14:38 G 15060682.00 15060682.11 15060682.22 0.1906 0.0592

Jupiter 36522-11-18 11:02 G 15060767.89 15060767.96 15060768.04 0.0521 0.0414

Jupiter 36523-02-15 16:05 G 15060857.05 15060857.17 15060857.29 0.0519 0.0176

Moon 36527-06-17 00:14 G 15062439.40 15062439.51 15062439.62 0.2652 0.0199

Earth 36527-06-17 00:57 G 15062439.43 15062439.54 15062439.64 0.2653 0.0114 *

Jupiter 36529-04-13 07:41 G 15063105.66 15063105.82 15063105.98 0.0507 0.0239

Earth 36530-12-18 11:02 G 15063719.83 15063719.96 15063720.08 0.2679 0.1676

Moon 36530-12-18 12:29 G 15063719.92 15063720.02 15063720.13 0.2676 0.1987 *

Saturn 36532-10-04 21:07 G 15064376.30 15064376.38 15064376.47 0.0274 0.0209

Saturn 36533-01-01 07:41 G 15064464.70 15064464.82 15064464.95 0.0273 0.0090

Saturn 36533-03-30 18:14 G 15064553.13 15064553.26 15064553.39 0.0272 0.0028

Saturn 36533-06-27 04:33 G 15064641.59 15064641.69 15064641.81 0.0271 0.0147

Saturn 36533-09-23 15:07 G 15064730.11 15064730.13 15064730.16 0.0270 0.0264

Neptune 36534-03-15 19:12 G 15064903.30 15064903.30 15064903.34 0.0088 0.0088

Neptune 36534-06-11 20:53 G 15064991.32 15064991.37 15064991.43 0.0088 0.0080

Neptune 36534-09-07 22:05 G 15065079.35 15065079.42 15065079.50 0.0088 0.0073

Jupiter 36534-12-04 20:24 G 15065167.22 15065167.35 15065167.48 0.0520 0.0028

Neptune 36534-12-04 23:17 G 15065167.39 15065167.47 15065167.57 0.0088 0.0066 *

Neptune 36535-03-03 00:43 G 15065255.44 15065255.53 15065255.63 0.0088 0.0058

Neptune 36535-05-30 02:09 G 15065343.48 15065343.59 15065343.70 0.0088 0.0051

Venus 36535-06-02 12:00 G 15065346.93 15065347.00 15065347.07 0.3686 0.2758

Neptune 36535-08-26 03:21 G 15065431.53 15065431.64 15065431.76 0.0088 0.0044

Neptune 36535-11-22 04:48 G 15065519.58 15065519.70 15065519.82 0.0088 0.0036

Neptune 36536-02-18 06:00 G 15065607.63 15065607.75 15065607.88 0.0088 0.0029

Neptune 36536-05-16 07:26 G 15065695.68 15065695.81 15065695.94 0.0088 0.0022

Neptune 36536-08-12 08:53 G 15065783.74 15065783.87 15065784.00 0.0088 0.0015

Neptune 36536-11-08 10:05 G 15065871.79 15065871.92 15065872.06 0.0088 0.0007

Neptune 36537-02-04 11:31 G 15065959.84 15065959.98 15065960.11 0.0088 0.0001

Neptune 36537-05-03 12:43 G 15066047.90 15066048.03 15066048.17 0.0088 0.0008

Neptune 36537-07-30 14:09 G 15066135.96 15066136.09 15066136.22 0.0088 0.0015

Neptune 36537-10-26 15:21 G 15066224.02 15066224.14 15066224.27 0.0088 0.0022

Neptune 36538-01-22 16:48 G 15066312.07 15066312.20 15066312.33 0.0088 0.0030

Neptune 36538-04-20 18:00 G 15066400.14 15066400.25 15066400.38 0.0088 0.0037

Neptune 36538-07-17 19:26 G 15066488.20 15066488.31 15066488.43 0.0088 0.0044

Neptune 36538-10-13 20:53 G 15066576.26 15066576.37 15066576.48 0.0088 0.0052

Neptune 36539-01-09 22:05 G 15066664.33 15066664.42 15066664.52 0.0088 0.0059

Uranus 36539-02-28 07:55 G 15066713.80 15066713.83 15066713.89 0.0135 0.0130

Neptune 36539-04-07 23:31 G 15066752.39 15066752.48 15066752.57 0.0088 0.0067

Uranus 36539-05-27 14:53 G 15066802.02 15066802.12 15066802.26 0.0135 0.0105

Neptune 36539-07-05 00:43 G 15066840.47 15066840.53 15066840.61 0.0088 0.0074

Uranus 36539-08-23 22:05 G 15066890.27 15066890.42 15066890.58 0.0134 0.0079

Neptune 36539-10-01 02:09 G 15066928.55 15066928.59 15066928.65 0.0088 0.0081

Uranus 36539-11-20 05:02 G 15066978.54 15066978.71 15066978.89 0.0134 0.0054

Uranus 36540-02-16 12:00 G 15067066.82 15067067.00 15067067.19 0.0134 0.0028

Uranus 36540-05-14 18:57 G 15067155.10 15067155.29 15067155.48 0.0134 0.0003

Moon 36540-06-18 17:17 G 15067190.13 15067190.22 15067190.32 0.2655 0.1214

Earth 36540-06-18 18:00 G 15067190.16 15067190.25 15067190.35 0.2653 0.1236 *

Mars 36540-08-10 10:19 G 15067242.78 15067242.93 15067243.08 0.1635 0.0608

Uranus 36540-08-11 01:41 G 15067243.39 15067243.57 15067243.76 0.0134 0.0022

Uranus 36540-11-07 08:24 G 15067331.68 15067331.85 15067332.03 0.0134 0.0046

Venus 36540-12-16 04:33 G 15067370.58 15067370.69 15067370.79 0.3686 0.0830

Jupiter 36541-01-30 03:50 G 15067415.48 15067415.66 15067415.85 0.0506 0.0029

Uranus 36541-02-03 15:07 G 15067419.98 15067420.13 15067420.29 0.0134 0.0071

Uranus 36541-05-02 21:36 G 15067508.28 15067508.40 15067508.54 0.0134 0.0095

Uranus 36541-07-30 04:19 G 15067596.61 15067596.68 15067596.77 0.0134 0.0119

Venus 36546-07-01 20:53 G 15069394.27 15069394.37 15069394.48 0.3685 0.1181

Jupiter 36546-09-23 00:57 G 15069477.42 15069477.54 15069477.66 0.0520 0.0117

Jupiter 36546-12-21 06:00 G 15069566.70 15069566.75 15069566.80 0.0518 0.0476

Pluto 36547-03-12 08:38 G 15069647.83 15069647.86 15069647.93 0.0069 0.0064

Pluto 36547-06-08 09:21 G 15069735.82 15069735.89 15069735.98 0.0069 0.0053

Moon 36547-06-12 19:26 G 15069740.26 15069740.31 15069740.36 0.2646 0.2330

Earth 36547-06-12 19:26 G 15069740.26 15069740.31 15069740.36 0.2653 0.2335 *

Pluto 36547-09-04 10:05 G 15069823.82 15069823.92 15069824.03 0.0069 0.0043

Pluto 36547-12-01 10:33 G 15069911.83 15069911.94 15069912.06 0.0069 0.0033

Pluto 36548-02-27 11:02 G 15069999.84 15069999.96 15070000.09 0.0070 0.0023

Pluto 36548-05-25 11:45 G 15070087.86 15070087.99 15070088.12 0.0070 0.0012

Pluto 36548-08-21 12:14 G 15070175.88 15070176.01 15070176.15 0.0070 0.0003

Pluto 36548-11-17 12:43 G 15070263.91 15070264.03 15070264.17 0.0070 0.0009

Saturn 36549-01-13 10:33 G 15070320.80 15070320.94 15070321.09 0.0289 0.0187

Pluto 36549-02-13 13:26 G 15070351.93 15070352.06 15070352.19 0.0070 0.0019

Saturn 36549-04-12 11:02 G 15070409.78 15070409.96 15070410.15 0.0290 0.0020

Pluto 36549-05-12 13:55 G 15070439.96 15070440.08 15070440.20 0.0070 0.0029

Saturn 36549-07-10 11:17 G 15070498.86 15070498.97 15070499.09 0.0292 0.0225

Pluto 36549-08-08 14:24 G 15070528.00 15070528.10 15070528.21 0.0070 0.0040

Pluto 36549-11-04 15:07 G 15070616.04 15070616.13 15070616.22 0.0070 0.0051

Mars 36549-12-31 12:29 G 15070672.87 15070673.02 15070673.17 0.1630 0.0712

Pluto 36550-01-31 15:21 G 15070704.09 15070704.14 15070704.22 0.0071 0.0062

Venus 36550-06-30 22:33 G 15070854.30 15070854.44 15070854.58 0.3685 0.0750

Venus 36552-01-15 13:41 G 15071418.02 15071418.07 15071418.12 0.3684 0.3200

Mars 36552-10-02 06:43 G 15071678.67 15071678.78 15071678.88 0.1900 0.0902

Jupiter 36552-11-18 00:29 G 15071725.35 15071725.52 15071725.70 0.0506 0.0179

Moon 36553-06-21 11:02 G 15071940.92 15071940.96 15071941.00 0.2659 0.2461

Earth 36553-06-21 11:17 G 15071940.94 15071940.97 15071941.00 0.2653 0.2531 *

Jupiter 36558-07-12 05:31 G 15073787.62 15073787.73 15073787.84 0.0520 0.0260

Jupiter 36558-10-09 10:33 G 15073876.84 15073876.94 15073877.04 0.0518 0.0330

Moon 36560-06-14 12:14 G 15074490.91 15074491.01 15074491.10 0.2648 0.1136

Earth 36560-06-14 12:29 G 15074490.92 15074491.02 15074491.12 0.2653 0.1066 *

Saturn 36562-02-21 23:45 G 15075108.44 15075108.49 15075108.55 0.0274 0.0244

Mars 36562-02-22 14:38 G 15075109.00 15075109.11 15075109.22 0.1906 0.0433

Saturn 36562-05-21 10:19 G 15075196.81 15075196.93 15075197.05 0.0273 0.0125

Saturn 36562-08-17 20:53 G 15075285.24 15075285.37 15075285.50 0.0272 0.0007

Saturn 36562-11-14 07:26 G 15075373.69 15075373.81 15075373.93 0.0271 0.0113

Saturn 36563-02-10 17:45 G 15075462.18 15075462.24 15075462.31 0.0270 0.0231

Earth 36563-12-16 08:38 G 15075770.71 15075770.86 15075771.02 0.2679 0.0897

Moon 36563-12-16 10:33 G 15075770.79 15075770.94 15075771.10 0.2678 0.0593 *

Jupiter 36564-09-05 20:24 G 15076035.24 15076035.35 15076035.46 0.0506 0.0397

Jupiter 36564-12-05 07:41 G 15076125.73 15076125.82 15076125.92 0.0508 0.0432

Jupiter 36570-04-30 10:05 G 15078097.84 15078097.92 15078098.00 0.0521 0.0407

Jupiter 36570-07-28 14:53 G 15078187.00 15078187.12 15078187.24 0.0518 0.0182

Mars 36571-07-15 22:48 G 15078539.41 15078539.45 15078539.48 0.1912 0.1780

Moon 36573-06-17 04:48 G 15079241.60 15079241.70 15079241.81 0.2652 0.0185

Earth 36573-06-17 05:31 G 15079241.63 15079241.73 15079241.84 0.2653 0.0224 *

Jupiter 36576-09-23 04:48 G 15080435.54 15080435.70 15080435.86 0.0507 0.0228

Earth 36576-12-18 17:45 G 15080522.16 15080522.24 15080522.33 0.2679 0.2258

Moon 36576-12-18 19:12 G 15080522.22 15080522.30 15080522.38 0.2675 0.2320 *

Saturn 36578-06-02 10:33 G 15081052.83 15081052.94 15081053.06 0.0289 0.0229

Saturn 36578-08-30 11:02 G 15081141.78 15081141.96 15081142.15 0.0290 0.0025

Saturn 36578-11-27 11:17 G 15081230.84 15081230.97 15081231.12 0.0291 0.0182

Mars 36580-02-09 11:02 G 15081669.82 15081669.96 15081670.10 0.1635 0.0813

Jupiter 36582-05-16 18:43 G 15082497.15 15082497.28 15082497.41 0.0519 0.0026

Uranus 36582-05-17 08:09 G 15082497.81 15082497.84 15082497.88 0.0144 0.0139

Uranus 36582-08-13 11:45 G 15082585.92 15082585.99 15082586.07 0.0144 0.0118

Uranus 36582-11-09 15:36 G 15082674.05 15082674.15 15082674.25 0.0144 0.0096

Uranus 36583-02-05 19:12 G 15082762.19 15082762.30 15082762.42 0.0144 0.0075

Uranus 36583-05-04 23:02 G 15082850.33 15082850.46 15082850.58 0.0144 0.0053

Uranus 36583-08-01 02:38 G 15082938.48 15082938.61 15082938.74 0.0144 0.0032

Uranus 36583-10-28 06:14 G 15083026.63 15083026.76 15083026.90 0.0144 0.0011

Uranus 36584-01-24 10:05 G 15083114.79 15083114.92 15083115.06 0.0144 0.0013

Uranus 36584-04-21 13:55 G 15083202.95 15083203.08 15083203.21 0.0144 0.0034

Uranus 36584-07-18 17:45 G 15083291.11 15083291.24 15083291.36 0.0144 0.0057

Uranus 36584-10-14 21:21 G 15083379.28 15083379.39 15083379.51 0.0144 0.0079

Uranus 36585-01-11 01:12 G 15083467.46 15083467.55 15083467.65 0.0144 0.0102

Uranus 36585-04-09 05:17 G 15083555.65 15083555.72 15083555.79 0.0145 0.0124

Moon 36586-06-19 22:19 G 15083992.34 15083992.43 15083992.52 0.2657 0.1376

Earth 36586-06-19 22:48 G 15083992.36 15083992.45 15083992.54 0.2653 0.1499 *

Jupiter 36588-07-12 01:41 G 15084745.39 15084745.57 15084745.76 0.0506 0.0025

Mars 36589-07-01 13:12 G 15085099.89 15085100.05 15085100.21 0.1631 0.0499

Saturn 36591-07-12 03:07 G 15085840.62 15085840.63 15085840.65 0.0274 0.0271

Saturn 36591-10-08 13:41 G 15085928.96 15085929.07 15085929.18 0.0273 0.0151

Saturn 36592-01-05 00:14 G 15086017.38 15086017.51 15086017.64 0.0272 0.0032

Venus 36592-01-07 09:36 G 15086019.82 15086019.90 15086019.99 0.3686 0.2078

Mars 36592-04-02 06:29 G 15086105.68 15086105.77 15086105.87 0.1899 0.1058

Saturn 36592-04-02 10:33 G 15086105.82 15086105.94 15086106.07 0.0271 0.0087 *

Saturn 36592-06-29 21:07 G 15086194.30 15086194.38 15086194.47 0.0270 0.0205

Moon 36593-06-13 00:14 G 15086542.44 15086542.51 15086542.57 0.2646 0.2036

Earth 36593-06-13 00:14 G 15086542.44 15086542.51 15086542.57 0.2653 0.2076 *

Jupiter 36594-03-04 23:02 G 15086807.34 15086807.46 15086807.58 0.0520 0.0125

Jupiter 36594-06-02 04:05 G 15086896.62 15086896.67 15086896.72 0.0518 0.0467

Venus 36597-07-23 02:09 G 15088043.48 15088043.59 15088043.70 0.3685 0.0116

Jupiter 36600-04-30 21:50 G 15089055.24 15089055.41 15089055.58 0.0506 0.0188

Mars 36601-08-24 14:38 G 15089535.99 15089536.11 15089536.22 0.1906 0.0288

Venus 36603-02-06 18:43 G 15090067.19 15090067.28 15090067.37 0.3685 0.1891

Jupiter 36605-12-23 03:36 G 15091117.54 15091117.65 15091117.76 0.0521 0.0271

Jupiter 36606-03-22 08:38 G 15091206.76 15091206.86 15091206.96 0.0519 0.0322

Moon 36606-06-16 16:48 G 15091293.09 15091293.20 15091293.30 0.2649 0.0886

Earth 36606-06-16 17:17 G 15091293.11 15091293.22 15091293.32 0.2653 0.0809 *

Venus 36607-02-05 23:31 G 15091527.34 15091527.48 15091527.62 0.3685 0.0816

Saturn 36607-10-21 09:50 G 15091784.87 15091784.91 15091784.96 0.0289 0.0280

Saturn 36608-01-18 10:33 G 15091873.76 15091873.94 15091874.12 0.0290 0.0074

Saturn 36608-04-16 10:48 G 15091962.79 15091962.95 15091963.12 0.0291 0.0132

Earth 36609-12-17 15:36 G 15092572.99 15092573.15 15092573.31 0.2679 0.0303

Moon 36609-12-17 17:31 G 15092573.07 15092573.23 15092573.39 0.2678 0.0106 *

Mars 36611-01-14 22:48 G 15092966.39 15092966.45 15092966.51 0.1912 0.1613

Jupiter 36612-02-17 18:14 G 15093365.15 15093365.26 15093365.37 0.0505 0.0398

Jupiter 36612-05-18 05:31 G 15093455.64 15093455.73 15093455.83 0.0507 0.0429

Jupiter 36617-10-11 08:09 G 15095427.77 15095427.84 15095427.92 0.0521 0.0413

Jupiter 36618-01-08 13:12 G 15095516.93 15095517.05 15095517.17 0.0519 0.0177

Neptune 36618-08-21 17:02 G 15095742.16 15095742.21 15095742.28 0.0089 0.0084

Neptune 36618-11-17 20:38 G 15095830.26 15095830.36 15095830.48 0.0089 0.0073

Neptune 36619-02-14 00:29 G 15095918.38 15095918.52 15095918.66 0.0089 0.0062

Neptune 36619-05-13 03:36 G 15096006.51 15096006.65 15096006.82 0.0089 0.0052

Moon 36619-06-19 09:36 G 15096043.79 15096043.90 15096044.01 0.2652 0.0345

Earth 36619-06-19 10:19 G 15096043.82 15096043.93 15096044.04 0.2653 0.0472 *

Neptune 36619-08-09 07:12 G 15096094.64 15096094.80 15096094.98 0.0089 0.0041

Mars 36619-08-11 11:31 G 15096096.86 15096096.98 15096097.11 0.1635 0.1013

Neptune 36619-11-05 11:02 G 15096182.78 15096182.96 15096183.14 0.0089 0.0030

Neptune 36620-02-01 14:24 G 15096270.92 15096271.10 15096271.30 0.0089 0.0020

Neptune 36620-04-29 18:00 G 15096359.06 15096359.25 15096359.45 0.0089 0.0009

Neptune 36620-07-26 21:36 G 15096447.21 15096447.40 15096447.59 0.0089 0.0002

Neptune 36620-10-23 00:57 G 15096535.36 15096535.54 15096535.74 0.0089 0.0013

Neptune 36621-01-19 04:33 G 15096623.51 15096623.69 15096623.88 0.0089 0.0023

Saturn 36621-02-25 16:33 G 15096661.09 15096661.19 15096661.29 0.0274 0.0183

Neptune 36621-04-17 07:55 G 15096711.66 15096711.83 15096712.01 0.0089 0.0034

Saturn 36621-05-25 03:07 G 15096749.50 15096749.63 15096749.75 0.0273 0.0064

Neptune 36621-07-14 11:31 G 15096799.82 15096799.98 15096800.15 0.0089 0.0044

Saturn 36621-08-21 13:26 G 15096837.93 15096838.06 15096838.19 0.0272 0.0056

Neptune 36621-10-10 14:38 G 15096887.98 15096888.11 15096888.27 0.0089 0.0055

Saturn 36621-11-18 00:00 G 15096926.40 15096926.50 15096926.60 0.0271 0.0174

Neptune 36622-01-06 18:00 G 15096976.14 15096976.25 15096976.40 0.0089 0.0066

Neptune 36622-04-04 21:36 G 15097064.32 15097064.40 15097064.51 0.0089 0.0076

Neptune 36622-07-02 01:12 G 15097152.51 15097152.55 15097152.60 0.0089 0.0086

Uranus 36623-03-21 15:50 G 15097415.09 15097415.16 15097415.26 0.0135 0.0121

Uranus 36623-06-17 23:02 G 15097503.33 15097503.46 15097503.60 0.0135 0.0095

Uranus 36623-09-14 06:00 G 15097591.60 15097591.75 15097591.92 0.0134 0.0070

Uranus 36623-12-11 12:57 G 15097679.87 15097680.04 15097680.23 0.0134 0.0044

Jupiter 36624-03-06 01:26 G 15097765.40 15097765.56 15097765.73 0.0507 0.0213

Uranus 36624-03-08 19:55 G 15097768.15 15097768.33 15097768.52 0.0134 0.0019

Uranus 36624-06-05 02:53 G 15097856.43 15097856.62 15097856.81 0.0134 0.0006

Uranus 36624-09-01 09:36 G 15097944.72 15097944.90 15097945.09 0.0134 0.0031

Uranus 36624-11-28 16:33 G 15098033.02 15098033.19 15098033.36 0.0134 0.0056

Uranus 36625-02-24 23:02 G 15098121.32 15098121.46 15098121.62 0.0134 0.0080

Uranus 36625-05-24 05:45 G 15098209.63 15098209.74 15098209.86 0.0134 0.0104

Uranus 36625-08-20 12:14 G 15098297.97 15098298.01 15098298.07 0.0134 0.0128

Mars 36628-12-31 13:55 G 15099526.92 15099527.08 15099527.24 0.1631 0.0297

Jupiter 36629-10-27 17:31 G 15099827.10 15099827.23 15099827.36 0.0519 0.0029

Mars 36631-10-03 06:43 G 15100532.69 15100532.78 15100532.87 0.1899 0.1216

Moon 36632-06-21 03:07 G 15100794.55 15100794.63 15100794.71 0.2658 0.1754

Earth 36632-06-21 03:36 G 15100794.57 15100794.65 15100794.73 0.2653 0.1763 *

Pluto 36633-04-17 11:45 G 15101094.88 15101094.99 15101095.14 0.0075 0.0056

Pluto 36633-07-14 14:38 G 15101182.94 15101183.11 15101183.29 0.0075 0.0036

Pluto 36633-10-10 17:17 G 15101271.03 15101271.22 15101271.42 0.0075 0.0017

Pluto 36634-01-06 19:55 G 15101359.14 15101359.33 15101359.53 0.0075 0.0003

Pluto 36634-04-04 22:19 G 15101447.25 15101447.43 15101447.63 0.0074 0.0022

Pluto 36634-07-02 00:57 G 15101535.38 15101535.54 15101535.72 0.0074 0.0040

Pluto 36634-09-28 03:21 G 15101623.54 15101623.64 15101623.78 0.0074 0.0059

Jupiter 36635-12-23 22:19 G 15102075.25 15102075.43 15102075.62 0.0507 0.0009

Saturn 36637-06-06 10:48 G 15102605.78 15102605.95 15102606.12 0.0289 0.0115

Saturn 36637-09-03 11:17 G 15102694.79 15102694.97 15102695.14 0.0290 0.0091

Mars 36638-05-23 15:50 G 15102957.15 15102957.16 15102957.18 0.1626 0.1616

Moon 36639-06-15 04:48 G 15103344.62 15103344.70 15103344.78 0.2646 0.1853

Earth 36639-06-15 04:48 G 15103344.63 15103344.70 15103344.78 0.2653 0.1817 *

Mars 36641-02-22 14:38 G 15103962.99 15103963.11 15103963.22 0.1906 0.0128

Jupiter 36641-08-15 21:21 G 15104137.27 15104137.39 15104137.51 0.0520 0.0131

Jupiter 36641-11-13 02:09 G 15104226.54 15104226.59 15104226.65 0.0518 0.0461

Moon 36642-12-15 15:07 G 15104624.09 15104624.13 15104624.17 0.2680 0.2586

Venus 36643-01-29 15:07 G 15104669.08 15104669.13 15104669.17 0.3686 0.3300

Jupiter 36647-10-11 19:12 G 15106385.13 15106385.30 15106385.47 0.0506 0.0196

Venus 36648-08-14 07:26 G 15106692.71 15106692.81 15106692.91 0.3686 0.1377

Saturn 36650-07-15 20:09 G 15107393.26 15107393.34 15107393.42 0.0274 0.0207

Mars 36650-07-15 22:48 G 15107393.37 15107393.45 15107393.52 0.1911 0.1469 *

Saturn 36650-10-12 06:29 G 15107481.65 15107481.77 15107481.90 0.0273 0.0088

Saturn 36651-01-08 17:02 G 15107570.08 15107570.21 15107570.34 0.0272 0.0032

Saturn 36651-04-07 03:36 G 15107658.54 15107658.65 15107658.76 0.0271 0.0150

Saturn 36651-07-04 14:09 G 15107747.08 15107747.09 15107747.10 0.0270 0.0268

Moon 36652-06-16 21:21 G 15108095.28 15108095.39 15108095.49 0.2649 0.0601

Earth 36652-06-16 21:50 G 15108095.31 15108095.41 15108095.52 0.2653 0.0551 *

Jupiter 36653-06-04 01:26 G 15108447.46 15108447.56 15108447.67 0.0521 0.0282

Jupiter 36653-09-01 06:29 G 15108536.67 15108536.77 15108536.87 0.0519 0.0309

Venus 36654-02-27 23:45 G 15108716.39 15108716.49 15108716.60 0.3685 0.0616

Earth 36655-12-18 22:33 G 15109375.28 15109375.44 15109375.60 0.2679 0.0288

Moon 36655-12-19 00:14 G 15109375.35 15109375.51 15109375.67 0.2677 0.0512 *

Venus 36658-02-26 19:55 G 15110176.22 15110176.33 15110176.44 0.3685 0.2320

Mars 36659-02-09 12:14 G 15110523.90 15110524.01 15110524.12 0.1635 0.1219

Jupiter 36659-07-30 15:07 G 15110695.03 15110695.13 15110695.24 0.0505 0.0410

Venus 36659-09-13 16:33 G 15110740.11 15110740.19 15110740.26 0.3685 0.2625

Jupiter 36659-10-29 02:38 G 15110785.51 15110785.61 15110785.71 0.0507 0.0416

Venus 36663-09-13 00:29 G 15112200.41 15112200.52 15112200.63 0.3686 0.2349

Jupiter 36665-03-23 06:00 G 15112757.68 15112757.75 15112757.82 0.0521 0.0429

Moon 36665-06-19 14:24 G 15112846.00 15112846.10 15112846.21 0.2653 0.0658

Earth 36665-06-19 15:07 G 15112846.02 15112846.13 15112846.23 0.2653 0.0736 *

Jupiter 36665-06-20 10:48 G 15112846.83 15112846.95 15112847.08 0.0519 0.0164

Uranus 36666-06-07 15:21 G 15113199.10 15113199.14 15113199.19 0.0143 0.0134

Uranus 36666-09-03 18:57 G 15113287.22 15113287.29 15113287.38 0.0144 0.0113

Saturn 36666-10-24 10:48 G 15113337.80 15113337.95 15113338.11 0.0289 0.0160

Uranus 36666-11-30 22:33 G 15113375.35 15113375.44 15113375.55 0.0144 0.0092

Saturn 36667-01-21 11:17 G 15113426.79 15113426.97 15113427.16 0.0290 0.0047

Uranus 36667-02-27 02:24 G 15113463.49 15113463.60 15113463.72 0.0144 0.0070

Saturn 36667-04-20 11:31 G 15113515.90 15113515.98 15113516.08 0.0291 0.0252

Uranus 36667-05-26 06:00 G 15113551.63 15113551.75 15113551.88 0.0144 0.0049

Uranus 36667-08-22 09:50 G 15113639.78 15113639.91 15113640.04 0.0144 0.0027

Uranus 36667-11-18 13:41 G 15113727.93 15113728.07 15113728.20 0.0144 0.0007

Uranus 36668-02-14 17:17 G 15113816.09 15113816.22 15113816.36 0.0144 0.0017

Uranus 36668-05-12 21:07 G 15113904.25 15113904.38 15113904.51 0.0144 0.0039

Mars 36668-07-01 14:24 G 15113953.93 15113954.10 15113954.26 0.1631 0.0104

Uranus 36668-08-09 00:57 G 15113992.42 15113992.54 15113992.66 0.0144 0.0061

Uranus 36668-11-05 04:33 G 15114080.59 15114080.69 15114080.80 0.0144 0.0084

Uranus 36669-02-01 08:24 G 15114168.76 15114168.85 15114168.95 0.0144 0.0106

Uranus 36669-04-30 12:14 G 15114256.96 15114257.01 15114257.08 0.0144 0.0129

Mars 36671-04-03 06:29 G 15114959.70 15114959.77 15114959.85 0.1900 0.1374

Jupiter 36671-08-16 23:02 G 15115095.30 15115095.46 15115095.63 0.0507 0.0208

Jupiter 36677-04-08 15:36 G 15117157.02 15117157.15 15117157.28 0.0519 0.0020

Mars 36677-11-21 16:33 G 15117384.11 15117384.19 15117384.27 0.1626 0.1410

Moon 36678-06-22 07:55 G 15117596.76 15117596.83 15117596.90 0.2658 0.1932

Earth 36678-06-22 08:09 G 15117596.78 15117596.84 15117596.91 0.2652 0.2026 *

Saturn 36679-12-02 23:02 G 15118125.40 15118125.46 15118125.53 0.0274 0.0237

Saturn 36680-02-29 09:36 G 15118213.78 15118213.90 15118214.02 0.0273 0.0117

Saturn 36680-05-27 20:09 G 15118302.21 15118302.34 15118302.47 0.0272 0.0002

Mars 36680-08-23 14:38 G 15118390.00 15118390.11 15118390.23 0.1905 0.0075

Saturn 36680-08-24 06:43 G 15118390.66 15118390.78 15118390.90 0.0271 0.0121

Saturn 36680-11-20 17:02 G 15118479.16 15118479.21 15118479.28 0.0270 0.0239

Jupiter 36683-06-04 18:57 G 15119405.10 15119405.29 15119405.47 0.0506 0.0016

Moon 36685-06-15 09:21 G 15120146.80 15120146.89 15120146.98 0.2647 0.1532

Earth 36685-06-15 09:36 G 15120146.81 15120146.90 15120146.99 0.2653 0.1559 *

Earth 36688-12-15 20:09 G 15121426.26 15121426.34 15121426.42 0.2679 0.2304

Moon 36688-12-15 22:05 G 15121426.33 15121426.42 15121426.52 0.2680 0.2167 *

Jupiter 36689-01-25 19:55 G 15121467.21 15121467.33 15121467.46 0.0520 0.0129

Jupiter 36689-04-25 00:57 G 15121556.49 15121556.54 15121556.60 0.0518 0.0463

Mars 36690-01-13 22:48 G 15121820.36 15121820.45 15121820.53 0.1911 0.1313

Jupiter 36695-03-23 15:36 G 15123714.98 15123715.15 15123715.32 0.0506 0.0217

Saturn 36696-03-12 11:02 G 15124069.83 15124069.96 15124070.09 0.0289 0.0201

Saturn 36696-06-09 11:31 G 15124158.80 15124158.98 15124159.17 0.0290 0.0005

Saturn 36696-09-06 11:45 G 15124247.87 15124247.99 15124248.12 0.0291 0.0210

Moon 36698-06-18 02:09 G 15124897.48 15124897.59 15124897.69 0.2649 0.0421

Earth 36698-06-18 02:38 G 15124897.50 15124897.61 15124897.72 0.2653 0.0287 *

Mars 36698-08-10 12:43 G 15124950.96 15124951.03 15124951.11 0.1636 0.1421

Neptune 36698-12-11 18:29 G 15125074.25 15125074.27 15125074.31 0.0088 0.0086

Neptune 36699-03-09 19:41 G 15125162.28 15125162.32 15125162.39 0.0088 0.0079

Neptune 36699-06-05 21:21 G 15125250.31 15125250.39 15125250.47 0.0088 0.0072

Neptune 36699-09-01 22:33 G 15125338.36 15125338.44 15125338.53 0.0088 0.0065

Venus 36699-09-05 12:43 G 15125341.96 15125342.03 15125342.10 0.3686 0.2619

Neptune 36699-11-28 23:45 G 15125426.40 15125426.49 15125426.60 0.0088 0.0058

Neptune 36700-02-25 00:57 G 15125514.44 15125514.54 15125514.66 0.0088 0.0051

Neptune 36700-05-24 02:38 G 15125602.49 15125602.61 15125602.72 0.0088 0.0043

Neptune 36700-08-20 03:50 G 15125690.54 15125690.66 15125690.79 0.0088 0.0036

Jupiter 36700-11-14 23:45 G 15125777.39 15125777.49 15125777.60 0.0520 0.0289

Neptune 36700-11-16 05:02 G 15125778.59 15125778.71 15125778.85 0.0088 0.0029

Jupiter 36701-02-12 04:33 G 15125866.59 15125866.69 15125866.80 0.0518 0.0302

Neptune 36701-02-12 06:29 G 15125866.64 15125866.77 15125866.90 0.0088 0.0021 *

Neptune 36701-05-11 07:55 G 15125954.70 15125954.83 15125954.96 0.0088 0.0014

Neptune 36701-08-07 09:21 G 15126042.75 15126042.89 15126043.02 0.0088 0.0007

Neptune 36701-11-03 10:33 G 15126130.81 15126130.94 15126131.07 0.0088 0.0001

Earth 36701-12-20 05:31 G 15126177.57 15126177.73 15126177.88 0.2679 0.0882

Moon 36701-12-20 06:57 G 15126177.64 15126177.79 15126177.94 0.2676 0.1118 *

Neptune 36702-01-30 12:00 G 15126218.86 15126219.00 15126219.13 0.0088 0.0009

Neptune 36702-04-28 13:12 G 15126306.92 15126307.05 15126307.18 0.0088 0.0016

Neptune 36702-07-25 14:24 G 15126394.98 15126395.10 15126395.24 0.0088 0.0024

Neptune 36702-10-21 15:50 G 15126483.04 15126483.16 15126483.29 0.0088 0.0031

Neptune 36703-01-17 17:02 G 15126571.10 15126571.21 15126571.34 0.0088 0.0038

Neptune 36703-04-15 18:29 G 15126659.16 15126659.27 15126659.39 0.0088 0.0045

Neptune 36703-07-12 19:55 G 15126747.22 15126747.33 15126747.44 0.0088 0.0053

Neptune 36703-10-08 21:07 G 15126835.29 15126835.38 15126835.49 0.0088 0.0060

Neptune 36704-01-04 22:33 G 15126923.36 15126923.44 15126923.53 0.0088 0.0068

Neptune 36704-04-01 23:45 G 15127011.43 15127011.49 15127011.57 0.0088 0.0075

Neptune 36704-06-29 01:12 G 15127099.51 15127099.55 15127099.60 0.0088 0.0082

Venus 36705-03-22 05:02 G 15127365.61 15127365.71 15127365.81 0.3686 0.0677

Jupiter 36707-01-10 12:29 G 15128024.92 15128025.02 15128025.12 0.0505 0.0419

Jupiter 36707-04-11 00:00 G 15128115.39 15128115.50 15128115.61 0.0507 0.0408

Uranus 36707-04-11 23:45 G 15128116.40 15128116.49 15128116.61 0.0135 0.0112

Uranus 36707-07-09 06:57 G 15128204.65 15128204.79 15128204.95 0.0135 0.0086

Uranus 36707-10-05 13:55 G 15128292.92 15128293.08 15128293.26 0.0135 0.0061

Mars 36708-01-01 15:07 G 15128380.97 15128381.13 15128381.29 0.1631 0.0111

Uranus 36708-01-01 21:07 G 15128381.20 15128381.38 15128381.56 0.0135 0.0035 *

Uranus 36708-03-30 04:05 G 15128469.48 15128469.67 15128469.86 0.0134 0.0010

Uranus 36708-06-26 10:48 G 15128557.77 15128557.95 15128558.14 0.0134 0.0016

Uranus 36708-09-22 17:31 G 15128646.06 15128646.23 15128646.42 0.0134 0.0040

Uranus 36708-12-20 00:14 G 15128734.36 15128734.51 15128734.68 0.0134 0.0065

Uranus 36709-03-18 06:57 G 15128822.66 15128822.79 15128822.94 0.0134 0.0089

Saturn 36709-04-22 02:53 G 15128857.58 15128857.62 15128857.66 0.0275 0.0260

Uranus 36709-06-14 13:41 G 15128910.98 15128911.07 15128911.17 0.0134 0.0114

Saturn 36709-07-19 13:12 G 15128945.94 15128946.05 15128946.17 0.0273 0.0141

Saturn 36709-10-15 23:45 G 15129034.36 15129034.49 15129034.62 0.0272 0.0021

Saturn 36710-01-12 10:19 G 15129122.81 15129122.93 15129123.05 0.0272 0.0098

Saturn 36710-04-10 20:38 G 15129211.29 15129211.36 15129211.45 0.0271 0.0217

Mars 36710-10-03 06:43 G 15129386.71 15129386.78 15129386.84 0.1899 0.1535

Venus 36710-10-05 21:36 G 15129389.30 15129389.40 15129389.50 0.3685 0.1318

Moon 36711-06-21 19:12 G 15129648.20 15129648.30 15129648.40 0.2655 0.0927

Earth 36711-06-21 19:55 G 15129648.23 15129648.33 15129648.43 0.2653 0.1002 *

Jupiter 36712-09-03 04:05 G 15130087.60 15130087.67 15130087.73 0.0521 0.0440

Jupiter 36712-12-01 08:53 G 15130176.75 15130176.87 15130176.99 0.0519 0.0150

Venus 36714-10-04 20:53 G 15130849.23 15130849.37 15130849.51 0.3685 0.0750

Venus 36716-04-20 14:09 G 15131413.05 15131413.09 15131413.13 0.3685 0.3344

Mars 36717-05-23 17:17 G 15131811.11 15131811.22 15131811.32 0.1626 0.1214

Earth 36718-06-14 21:21 G 15132198.36 15132198.39 15132198.41 0.2653 0.2565

Moon 36718-06-14 21:36 G 15132198.36 15132198.40 15132198.43 0.2647 0.2465 *

Jupiter 36719-01-27 20:09 G 15132425.17 15132425.34 15132425.51 0.0506 0.0196

Mars 36720-02-23 14:38 G 15132816.99 15132817.11 15132817.22 0.1905 0.0189

Moon 36724-06-23 12:43 G 15134398.97 15134399.03 15134399.08 0.2658 0.2272

Earth 36724-06-23 12:57 G 15134398.99 15134399.04 15134399.09 0.2652 0.2288 *

Jupiter 36724-09-19 13:12 G 15134486.92 15134487.05 15134487.18 0.0520 0.0005

Saturn 36725-07-31 11:02 G 15134801.87 15134801.96 15134802.07 0.0289 0.0245

Saturn 36725-10-28 11:45 G 15134890.81 15134890.99 15134891.18 0.0290 0.0039

Saturn 36726-01-25 12:14 G 15134979.86 15134980.01 15134980.16 0.0291 0.0168

Mars 36729-07-15 22:48 G 15136247.36 15136247.45 15136247.54 0.1911 0.1142

Jupiter 36730-11-15 16:33 G 15136735.00 15136735.19 15136735.37 0.0506 0.0017

Moon 36731-06-17 13:55 G 15136948.99 15136949.08 15136949.17 0.2648 0.1402

Earth 36731-06-17 14:24 G 15136949.00 15136949.10 15136949.19 0.2653 0.1303 *

Earth 36734-12-18 03:07 G 15138228.51 15138228.63 15138228.76 0.2679 0.1703

Moon 36734-12-18 05:02 G 15138228.57 15138228.71 15138228.85 0.2680 0.1360 *

Jupiter 36736-07-08 18:00 G 15138797.12 15138797.25 15138797.37 0.0520 0.0140

Jupiter 36736-10-05 22:48 G 15138886.40 15138886.45 15138886.52 0.0518 0.0452

Mars 36738-02-09 13:26 G 15139378.04 15139378.06 15139378.08 0.1636 0.1622

Saturn 36738-12-06 16:33 G 15139678.09 15139678.19 15139678.29 0.0273 0.0168

Saturn 36739-03-05 02:53 G 15139766.49 15139766.62 15139766.75 0.0273 0.0050

Saturn 36739-06-01 13:26 G 15139854.93 15139855.06 15139855.19 0.0272 0.0070

Saturn 36739-08-29 00:00 G 15139943.41 15139943.50 15139943.59 0.0271 0.0188

Jupiter 36742-09-03 12:00 G 15141044.84 15141045.00 15141045.17 0.0506 0.0236

Moon 36744-06-19 06:43 G 15141699.67 15141699.78 15141699.89 0.2650 0.0088

Earth 36744-06-19 07:26 G 15141699.70 15141699.81 15141699.92 0.2653 0.0050 *

Mars 36747-07-02 15:50 G 15142808.00 15142808.16 15142808.32 0.1631 0.0314

Earth 36747-12-21 12:14 G 15142979.88 15142980.01 15142980.15 0.2679 0.1473

Moon 36747-12-21 13:55 G 15142979.94 15142980.08 15142980.21 0.2674 0.1569 *

Jupiter 36748-04-26 22:19 G 15143107.33 15143107.43 15143107.54 0.0521 0.0287

Jupiter 36748-07-25 03:21 G 15143196.54 15143196.64 15143196.74 0.0518 0.0305

Mars 36750-04-03 06:29 G 15143813.72 15143813.77 15143813.83 0.1899 0.1688

Uranus 36750-06-28 23:31 G 15143900.42 15143900.48 15143900.55 0.0143 0.0125

Uranus 36750-09-25 03:07 G 15143988.54 15143988.63 15143988.73 0.0144 0.0104

Uranus 36750-12-22 06:43 G 15144076.68 15144076.78 15144076.89 0.0144 0.0082

Uranus 36751-03-20 10:33 G 15144164.82 15144164.94 15144165.06 0.0144 0.0061

Uranus 36751-06-16 14:09 G 15144252.96 15144253.09 15144253.22 0.0144 0.0039

Uranus 36751-09-12 18:00 G 15144341.11 15144341.25 15144341.38 0.0144 0.0018

Uranus 36751-12-09 21:36 G 15144429.27 15144429.40 15144429.54 0.0144 0.0004

Uranus 36752-03-07 01:26 G 15144517.42 15144517.56 15144517.69 0.0144 0.0026

Uranus 36752-06-03 05:02 G 15144605.59 15144605.71 15144605.84 0.0144 0.0048

Uranus 36752-08-30 08:53 G 15144693.75 15144693.87 15144693.99 0.0144 0.0071

Uranus 36752-11-26 12:43 G 15144781.93 15144782.03 15144782.13 0.0144 0.0093

Uranus 36753-02-22 16:19 G 15144870.11 15144870.18 15144870.27 0.0144 0.0116

Uranus 36753-05-21 20:24 G 15144958.31 15144958.35 15144958.39 0.0144 0.0138

Jupiter 36754-06-22 08:38 G 15145354.78 15145354.86 15145354.96 0.0505 0.0442

Jupiter 36754-09-20 20:24 G 15145445.23 15145445.35 15145445.47 0.0507 0.0388

Saturn 36755-03-17 11:31 G 15145622.80 15145622.98 15145623.16 0.0289 0.0084

Saturn 36755-06-14 12:00 G 15145711.83 15145712.00 15145712.17 0.0290 0.0122

Venus 36756-04-12 10:19 G 15146014.84 15146014.93 15146015.02 0.3686 0.1938

Mars 36756-11-21 18:00 G 15146238.12 15146238.25 15146238.38 0.1627 0.1001

Moon 36757-06-22 00:00 G 15146450.40 15146450.50 15146450.60 0.2656 0.1144

Earth 36757-06-22 00:29 G 15146450.43 15146450.52 15146450.62 0.2652 0.1259 *

Mars 36759-08-24 14:38 G 15147244.00 15147244.11 15147244.23 0.1905 0.0357

Jupiter 36760-02-14 02:09 G 15147417.53 15147417.59 15147417.65 0.0521 0.0447

Jupiter 36760-05-13 06:57 G 15147506.67 15147506.79 15147506.91 0.0519 0.0143

Venus 36761-10-27 02:38 G 15148038.51 15148038.61 15148038.72 0.3686 0.0117

Earth 36764-06-15 01:55 G 15149000.53 15149000.58 15149000.63 0.2653 0.2302

Moon 36764-06-15 02:09 G 15149000.54 15149000.59 15149000.64 0.2647 0.2315 *

Jupiter 36766-07-09 17:31 G 15149755.06 15149755.23 15149755.40 0.0507 0.0188

Venus 36767-05-12 19:12 G 15150062.21 15150062.30 15150062.39 0.3685 0.2028

Saturn 36768-04-24 20:09 G 15150410.25 15150410.34 15150410.44 0.0274 0.0192

Saturn 36768-07-22 06:43 G 15150498.65 15150498.78 15150498.91 0.0273 0.0072

Saturn 36768-10-18 17:02 G 15150587.08 15150587.21 15150587.34 0.0272 0.0048

Mars 36769-01-13 22:33 G 15150674.35 15150674.44 15150674.54 0.1911 0.1003

Saturn 36769-01-15 03:36 G 15150675.55 15150675.65 15150675.76 0.0271 0.0165

Moon 36770-06-24 17:31 G 15151201.20 15151201.23 15151201.26 0.2658 0.2526

Earth 36770-06-24 17:45 G 15151201.21 15151201.24 15151201.27 0.2652 0.2549 *

Venus 36771-05-11 21:50 G 15151522.27 15151522.41 15151522.55 0.3685 0.0828

Jupiter 36772-03-01 11:17 G 15151816.84 15151816.97 15151817.09 0.0520 0.0020

Moon 36777-06-17 18:29 G 15153751.18 15153751.27 15153751.37 0.2647 0.1045

Earth 36777-06-17 18:57 G 15153751.19 15153751.29 15153751.39 0.2653 0.1041 *

Jupiter 36778-04-27 13:41 G 15154064.89 15154065.07 15154065.26 0.0506 0.0026

Earth 36780-12-18 10:05 G 15155030.77 15155030.92 15155031.07 0.2679 0.1107

Moon 36780-12-18 12:00 G 15155030.84 15155031.00 15155031.15 0.2678 0.0994 *

Neptune 36783-05-19 13:41 G 15155913.03 15155913.07 15155913.15 0.0089 0.0084

Neptune 36783-08-15 17:31 G 15156001.13 15156001.23 15156001.35 0.0089 0.0073

Neptune 36783-11-11 21:07 G 15156089.25 15156089.38 15156089.53 0.0089 0.0062

Jupiter 36783-12-19 15:36 G 15156127.03 15156127.15 15156127.27 0.0520 0.0157

Neptune 36784-02-08 00:29 G 15156177.38 15156177.52 15156177.69 0.0089 0.0052

Jupiter 36784-03-17 20:38 G 15156216.29 15156216.36 15156216.43 0.0518 0.0435

Neptune 36784-05-06 04:05 G 15156265.51 15156265.67 15156265.86 0.0089 0.0041

Neptune 36784-08-02 07:41 G 15156353.65 15156353.82 15156354.01 0.0089 0.0030

Saturn 36784-08-03 11:31 G 15156354.82 15156354.98 15156355.16 0.0290 0.0129

Neptune 36784-10-29 11:31 G 15156441.79 15156441.98 15156442.17 0.0089 0.0019

Saturn 36784-10-31 12:14 G 15156443.83 15156444.01 15156444.19 0.0291 0.0078

Neptune 36785-01-25 14:53 G 15156529.93 15156530.12 15156530.32 0.0089 0.0009

Saturn 36785-01-28 12:14 G 15156532.98 15156533.01 15156533.06 0.0292 0.0285

Neptune 36785-04-23 18:29 G 15156618.08 15156618.27 15156618.46 0.0089 0.0002

Neptune 36785-07-20 21:50 G 15156706.23 15156706.41 15156706.61 0.0089 0.0013

Neptune 36785-10-17 01:12 G 15156794.38 15156794.55 15156794.75 0.0089 0.0024

Neptune 36786-01-13 04:48 G 15156882.53 15156882.70 15156882.88 0.0089 0.0034

Neptune 36786-04-11 08:09 G 15156970.69 15156970.84 15156971.02 0.0089 0.0045

Neptune 36786-07-08 11:45 G 15157058.85 15157058.99 15157059.15 0.0089 0.0055

Neptune 36786-10-04 15:07 G 15157147.01 15157147.13 15157147.27 0.0089 0.0066

Mars 36786-12-31 16:19 G 15157235.03 15157235.18 15157235.34 0.1631 0.0510

Neptune 36786-12-31 18:43 G 15157235.19 15157235.28 15157235.38 0.0089 0.0076 *

Neptune 36787-03-29 21:50 G 15157323.39 15157323.41 15157323.47 0.0089 0.0087

Mars 36789-10-02 06:43 G 15158240.76 15158240.78 15158240.80 0.1899 0.1858

Jupiter 36790-02-13 09:50 G 15158374.75 15158374.91 15158375.08 0.0505 0.0237

Moon 36790-06-20 11:31 G 15158501.87 15158501.98 15158502.09 0.2652 0.0089

Earth 36790-06-20 12:14 G 15158501.90 15158502.01 15158502.11 0.2653 0.0251 *

Uranus 36791-02-03 01:12 G 15158729.49 15158729.55 15158729.61 0.0135 0.0127

Uranus 36791-05-02 08:24 G 15158817.72 15158817.85 15158817.97 0.0135 0.0101

Uranus 36791-07-29 15:07 G 15158905.99 15158906.13 15158906.30 0.0135 0.0076

Uranus 36791-10-25 22:05 G 15158994.26 15158994.42 15158994.61 0.0135 0.0051

Uranus 36792-01-22 05:17 G 15159082.54 15159082.72 15159082.91 0.0135 0.0025

Uranus 36792-04-19 12:14 G 15159170.82 15159171.01 15159171.20 0.0134 0.0000

Uranus 36792-07-16 18:57 G 15159259.11 15159259.29 15159259.48 0.0134 0.0026

Uranus 36792-10-13 01:41 G 15159347.41 15159347.57 15159347.75 0.0134 0.0051

Uranus 36793-01-09 08:24 G 15159435.71 15159435.85 15159436.02 0.0134 0.0075

Pluto 36793-02-06 23:31 G 15159464.45 15159464.48 15159464.55 0.0069 0.0064

Uranus 36793-04-07 15:07 G 15159524.02 15159524.13 15159524.26 0.0134 0.0099

Pluto 36793-05-06 00:14 G 15159552.44 15159552.51 15159552.60 0.0069 0.0054

Uranus 36793-07-04 21:50 G 15159612.35 15159612.41 15159612.49 0.0134 0.0123

Pluto 36793-08-02 00:57 G 15159640.44 15159640.54 15159640.64 0.0069 0.0044

Pluto 36793-10-29 01:26 G 15159728.45 15159728.56 15159728.68 0.0069 0.0034

Earth 36793-12-21 19:12 G 15159782.20 15159782.30 15159782.41 0.2679 0.2063

Moon 36793-12-21 20:38 G 15159782.28 15159782.36 15159782.44 0.2674 0.2327 *

Pluto 36794-01-25 01:55 G 15159816.47 15159816.58 15159816.71 0.0070 0.0024

Pluto 36794-04-23 02:38 G 15159904.48 15159904.61 15159904.74 0.0070 0.0013

Pluto 36794-07-20 03:07 G 15159992.50 15159992.63 15159992.77 0.0070 0.0004

Pluto 36794-10-16 03:50 G 15160080.53 15160080.66 15160080.79 0.0070 0.0008

Pluto 36795-01-12 04:19 G 15160168.56 15160168.68 15160168.81 0.0070 0.0018

Pluto 36795-04-10 05:02 G 15160256.59 15160256.71 15160256.83 0.0070 0.0029

Pluto 36795-07-07 05:17 G 15160344.62 15160344.72 15160344.84 0.0070 0.0039

Pluto 36795-10-03 06:00 G 15160432.66 15160432.75 15160432.85 0.0070 0.0050

Jupiter 36795-10-07 20:24 G 15160437.24 15160437.35 15160437.45 0.0521 0.0299

Pluto 36795-12-30 06:29 G 15160520.71 15160520.77 15160520.84 0.0070 0.0061

Jupiter 36796-01-05 01:12 G 15160526.45 15160526.55 15160526.66 0.0519 0.0294

Mars 36796-05-22 18:29 G 15160665.13 15160665.27 15160665.42 0.1627 0.0800

Saturn 36797-09-11 23:17 G 15161142.40 15161142.47 15161142.55 0.0274 0.0221

Saturn 36797-12-09 09:36 G 15161230.78 15161230.90 15161231.03 0.0273 0.0102

Saturn 36798-03-07 20:09 G 15161319.21 15161319.34 15161319.47 0.0272 0.0018

Saturn 36798-06-04 06:43 G 15161407.66 15161407.78 15161407.89 0.0271 0.0136

Saturn 36798-08-31 17:02 G 15161496.17 15161496.21 15161496.26 0.0270 0.0254

Mars 36799-02-22 14:38 G 15161671.00 15161671.11 15161671.22 0.1905 0.0514

Jupiter 36801-12-02 05:31 G 15162684.66 15162684.73 15162684.81 0.0505 0.0456

Jupiter 36802-03-02 17:02 G 15162775.09 15162775.21 15162775.34 0.0507 0.0372

Moon 36803-06-23 04:48 G 15163252.61 15163252.70 15163252.79 0.2656 0.1485

Earth 36803-06-23 05:17 G 15163252.63 15163252.72 15163252.81 0.2653 0.1519 *

Venus 36807-05-04 15:36 G 15164664.10 15164664.15 15164664.20 0.3687 0.3179

Jupiter 36807-07-27 00:57 G 15164747.47 15164747.54 15164747.60 0.0521 0.0444

Jupiter 36807-10-24 05:45 G 15164836.62 15164836.74 15164836.86 0.0519 0.0147

Mars 36808-07-14 22:48 G 15165101.34 15165101.45 15165101.55 0.1911 0.0844

Moon 36810-06-16 06:43 G 15165802.71 15165802.78 15165802.85 0.2647 0.2019

Earth 36810-06-16 06:43 G 15165802.71 15165802.78 15165802.85 0.2653 0.2045 *

Venus 36812-11-17 07:55 G 15166687.73 15166687.83 15166687.93 0.3686 0.1242

Jupiter 36813-12-19 14:09 G 15167084.92 15167085.09 15167085.26 0.0507 0.0170

Saturn 36813-12-21 10:33 G 15167086.80 15167086.94 15167087.09 0.0289 0.0180

Saturn 36814-03-20 11:17 G 15167175.78 15167175.97 15167176.15 0.0290 0.0027

Saturn 36814-06-17 11:17 G 15167264.87 15167264.97 15167265.09 0.0291 0.0233

Venus 36818-06-03 00:14 G 15168711.41 15168711.51 15168711.62 0.3685 0.0749

Jupiter 36819-08-12 09:21 G 15169146.77 15169146.89 15169147.02 0.0520 0.0021

Venus 36822-06-01 18:00 G 15170171.14 15170171.25 15170171.36 0.3685 0.2363

Moon 36823-06-18 23:17 G 15170553.37 15170553.47 15170553.57 0.2648 0.0892

Earth 36823-06-18 23:45 G 15170553.39 15170553.49 15170553.59 0.2653 0.0777 *

Venus 36823-12-17 16:48 G 15170735.14 15170735.20 15170735.27 0.3685 0.2760

Jupiter 36825-10-07 11:17 G 15171394.79 15171394.97 15171395.16 0.0506 0.0030

Mars 36826-07-01 17:02 G 15171662.06 15171662.21 15171662.36 0.1631 0.0721

Earth 36826-12-19 17:02 G 15171833.05 15171833.21 15171833.37 0.2679 0.0512

Moon 36826-12-19 18:43 G 15171833.12 15171833.28 15171833.44 0.2676 0.0193 *

Saturn 36827-01-30 02:53 G 15171874.57 15171874.62 15171874.68 0.0274 0.0246

Saturn 36827-04-28 13:12 G 15171962.94 15171963.05 15171963.17 0.0273 0.0127

Saturn 36827-07-25 23:45 G 15172051.36 15172051.49 15172051.62 0.0272 0.0007

Saturn 36827-10-22 10:05 G 15172139.80 15172139.92 15172140.05 0.0271 0.0112

Venus 36827-12-16 22:33 G 15172195.33 15172195.44 15172195.55 0.3685 0.2361

Saturn 36828-01-18 20:38 G 15172228.29 15172228.36 15172228.43 0.0270 0.0230

Jupiter 36831-05-31 13:41 G 15173456.95 15173457.07 15173457.19 0.0520 0.0166

Jupiter 36831-08-28 18:43 G 15173546.21 15173546.28 15173546.35 0.0518 0.0426

Uranus 36834-04-22 03:36 G 15174513.63 15174513.65 15174513.70 0.0143 0.0138

Uranus 36834-07-19 07:26 G 15174601.74 15174601.81 15174601.89 0.0144 0.0116

Uranus 36834-10-15 11:02 G 15174689.87 15174689.96 15174690.06 0.0144 0.0095

Uranus 36835-01-11 14:38 G 15174778.00 15174778.11 15174778.23 0.0144 0.0074

Uranus 36835-04-09 18:14 G 15174866.14 15174866.26 15174866.39 0.0144 0.0053

Uranus 36835-07-06 22:05 G 15174954.29 15174954.42 15174954.55 0.0144 0.0031

Uranus 36835-10-03 01:55 G 15175042.44 15175042.58 15175042.71 0.0144 0.0010

Mars 36835-11-21 19:12 G 15175092.15 15175092.30 15175092.45 0.1627 0.0602

Uranus 36835-12-30 05:31 G 15175130.60 15175130.73 15175130.87 0.0144 0.0013

Uranus 36836-03-27 09:21 G 15175218.76 15175218.89 15175219.02 0.0144 0.0035

Moon 36836-06-20 16:19 G 15175304.07 15175304.18 15175304.28 0.2654 0.0473

Earth 36836-06-20 16:48 G 15175304.10 15175304.20 15175304.31 0.2653 0.0508 *

Uranus 36836-06-23 12:57 G 15175306.92 15175307.04 15175307.17 0.0144 0.0057

Uranus 36836-09-19 16:48 G 15175395.09 15175395.20 15175395.32 0.0144 0.0079

Uranus 36836-12-16 20:38 G 15175483.27 15175483.36 15175483.46 0.0144 0.0102

Uranus 36837-03-15 00:14 G 15175571.46 15175571.51 15175571.59 0.0144 0.0125

Jupiter 36837-07-26 07:41 G 15175704.66 15175704.82 15175704.98 0.0505 0.0239

Mars 36838-08-23 14:38 G 15176098.00 15176098.11 15176098.22 0.1905 0.0662

Earth 36839-12-23 02:09 G 15176584.57 15176584.59 15176584.61 0.2679 0.2643

Jupiter 36843-03-19 18:00 G 15177767.15 15177767.25 15177767.35 0.0521 0.0314

Saturn 36843-05-10 10:05 G 15177818.81 15177818.92 15177819.03 0.0289 0.0230

Jupiter 36843-06-16 23:02 G 15177856.35 15177856.46 15177856.57 0.0519 0.0279

Saturn 36843-08-07 10:48 G 15177907.76 15177907.95 15177908.13 0.0290 0.0023

Saturn 36843-11-04 11:02 G 15177996.82 15177996.96 15177997.11 0.0291 0.0184

Mars 36848-01-13 22:48 G 15179528.34 15179528.45 15179528.56 0.1911 0.0671

Jupiter 36849-05-14 03:50 G 15180014.58 15180014.66 15180014.74 0.0505 0.0451

Moon 36849-06-23 09:36 G 15180054.81 15180054.90 15180054.98 0.2657 0.1668

Earth 36849-06-23 10:05 G 15180054.84 15180054.92 15180055.00 0.2652 0.1784 *

Jupiter 36849-08-12 15:21 G 15180105.02 15180105.14 15180105.26 0.0507 0.0376

Jupiter 36855-01-05 22:48 G 15182077.40 15182077.45 15182077.51 0.0522 0.0455

Jupiter 36855-04-05 03:50 G 15182166.53 15182166.66 15182166.78 0.0520 0.0138

Moon 36856-06-16 11:17 G 15182604.89 15182604.97 15182605.05 0.2646 0.1809

Earth 36856-06-16 11:31 G 15182604.90 15182604.98 15182605.05 0.2653 0.1790 *

Saturn 36856-09-14 16:19 G 15182695.07 15182695.18 15182695.29 0.0273 0.0156

Saturn 36856-12-12 02:38 G 15182783.48 15182783.61 15182783.74 0.0272 0.0038

Saturn 36857-03-10 13:12 G 15182871.92 15182872.05 15182872.18 0.0271 0.0081

Saturn 36857-06-06 23:31 G 15182960.40 15182960.48 15182960.57 0.0270 0.0200

Jupiter 36861-05-31 11:17 G 15184414.80 15184414.97 15184415.15 0.0506 0.0161

Neptune 36863-09-08 17:31 G 15185245.21 15185245.23 15185245.28 0.0088 0.0086

Neptune 36863-12-05 18:57 G 15185333.24 15185333.29 15185333.36 0.0088 0.0078

Venus 36863-12-09 13:12 G 15185336.98 15185337.05 15185337.13 0.3686 0.2497

Neptune 36864-03-02 20:24 G 15185421.28 15185421.35 15185421.43 0.0088 0.0071

Neptune 36864-05-29 21:36 G 15185509.32 15185509.40 15185509.50 0.0088 0.0064

Neptune 36864-08-25 23:02 G 15185597.36 15185597.46 15185597.56 0.0088 0.0056

Neptune 36864-11-22 00:14 G 15185685.41 15185685.51 15185685.63 0.0088 0.0049

Neptune 36865-02-18 01:41 G 15185773.46 15185773.57 15185773.69 0.0088 0.0042

Neptune 36865-05-17 02:53 G 15185861.50 15185861.62 15185861.75 0.0088 0.0035

Neptune 36865-08-13 04:19 G 15185949.55 15185949.68 15185949.81 0.0088 0.0027

Neptune 36865-11-09 05:31 G 15186037.61 15186037.73 15186037.87 0.0088 0.0020

Mars 36865-12-30 17:45 G 15186089.10 15186089.24 15186089.37 0.1631 0.0925

Neptune 36866-02-05 06:57 G 15186125.66 15186125.79 15186125.92 0.0088 0.0013

Neptune 36866-05-04 08:24 G 15186213.71 15186213.85 15186213.98 0.0088 0.0006

Neptune 36866-07-31 09:36 G 15186301.77 15186301.90 15186302.04 0.0088 0.0002

Neptune 36866-10-27 11:02 G 15186389.82 15186389.96 15186390.09 0.0088 0.0009

Jupiter 36867-01-22 08:24 G 15186476.72 15186476.85 15186476.97 0.0520 0.0013

Neptune 36867-01-23 12:14 G 15186477.88 15186478.01 15186478.15 0.0088 0.0017

Neptune 36867-04-21 13:26 G 15186565.94 15186566.06 15186566.20 0.0088 0.0025

Neptune 36867-07-18 14:53 G 15186654.00 15186654.12 15186654.25 0.0088 0.0032

Neptune 36867-10-14 16:19 G 15186742.06 15186742.18 15186742.30 0.0088 0.0039

Neptune 36868-01-10 17:31 G 15186830.12 15186830.23 15186830.35 0.0088 0.0046

Neptune 36868-04-07 18:57 G 15186918.19 15186918.29 15186918.40 0.0088 0.0054

Neptune 36868-07-04 20:09 G 15187006.25 15187006.34 15187006.45 0.0088 0.0061

Neptune 36868-09-30 21:36 G 15187094.32 15187094.40 15187094.49 0.0088 0.0069

Neptune 36868-12-27 22:48 G 15187182.40 15187182.45 15187182.53 0.0088 0.0076

Neptune 36869-03-26 00:14 G 15187270.48 15187270.51 15187270.56 0.0088 0.0084

Moon 36869-06-19 04:05 G 15187355.56 15187355.67 15187355.77 0.2649 0.0560

Earth 36869-06-19 04:33 G 15187355.58 15187355.69 15187355.79 0.2653 0.0522 *

Venus 36869-06-24 05:31 G 15187360.63 15187360.73 15187360.84 0.3686 0.0554

Earth 36872-12-20 00:00 G 15188635.34 15188635.50 15188635.66 0.2679 0.0090

Moon 36872-12-20 01:41 G 15188635.41 15188635.57 15188635.74 0.2676 0.0219 *

Saturn 36872-12-24 08:53 G 15188639.69 15188639.87 15188640.05 0.0289 0.0082

Jupiter 36873-03-19 08:24 G 15188724.66 15188724.85 15188725.03 0.0506 0.0041

Saturn 36873-03-23 09:21 G 15188728.72 15188728.89 15188729.06 0.0291 0.0125

Venus 36875-01-07 22:05 G 15189384.32 15189384.42 15189384.52 0.3685 0.1453

Uranus 36875-02-23 09:36 G 15189430.82 15189430.90 15189431.01 0.0135 0.0116

Uranus 36875-05-22 16:48 G 15189519.07 15189519.20 15189519.35 0.0135 0.0090

Mars 36875-05-22 19:55 G 15189519.17 15189519.33 15189519.49 0.1627 0.0393 *

Uranus 36875-08-18 23:45 G 15189607.33 15189607.49 15189607.67 0.0135 0.0065

Uranus 36875-11-15 06:57 G 15189695.61 15189695.79 15189695.97 0.0135 0.0039

Uranus 36876-02-11 13:55 G 15189783.89 15189784.08 15189784.27 0.0135 0.0013

Uranus 36876-05-09 20:53 G 15189872.18 15189872.37 15189872.56 0.0134 0.0012

Uranus 36876-08-06 03:36 G 15189960.47 15189960.65 15189960.83 0.0134 0.0037

Uranus 36876-11-02 10:19 G 15190048.77 15190048.93 15190049.10 0.0134 0.0061

Uranus 36877-01-29 17:02 G 15190137.07 15190137.21 15190137.36 0.0134 0.0086

Uranus 36877-04-27 23:45 G 15190225.39 15190225.49 15190225.60 0.0134 0.0110

Mars 36878-02-21 14:38 G 15190525.01 15190525.11 15190525.22 0.1905 0.0826

Jupiter 36878-11-10 12:00 G 15190786.88 15190787.00 15190787.12 0.0520 0.0168

Venus 36879-01-06 18:57 G 15190844.15 15190844.29 15190844.43 0.3685 0.0748

Jupiter 36879-02-07 17:02 G 15190876.14 15190876.21 15190876.28 0.0518 0.0424

Pluto 36879-03-15 00:14 G 15190911.40 15190911.51 15190911.65 0.0075 0.0057

Pluto 36879-06-11 02:53 G 15190999.47 15190999.62 15190999.81 0.0075 0.0038

Pluto 36879-09-07 05:31 G 15191087.55 15191087.73 15191087.94 0.0075 0.0019

Pluto 36879-12-04 08:24 G 15191175.65 15191175.85 15191176.05 0.0075 0.0002

Pluto 36880-03-01 11:02 G 15191263.77 15191263.96 15191264.15 0.0074 0.0020

Pluto 36880-05-28 13:12 G 15191351.90 15191352.05 15191352.24 0.0074 0.0040

Venus 36880-07-23 14:38 G 15191408.08 15191408.11 15191408.14 0.3685 0.3496

Pluto 36880-08-24 16:19 G 15191440.05 15191440.18 15191440.30 0.0074 0.0058

Moon 36882-06-21 20:53 G 15192106.27 15192106.37 15192106.48 0.2654 0.0614

Earth 36882-06-21 21:36 G 15192106.30 15192106.40 15192106.50 0.2653 0.0762 *

Jupiter 36885-01-05 05:31 G 15193034.57 15193034.73 15193034.90 0.0506 0.0238

Saturn 36886-02-01 19:41 G 15193427.22 15193427.32 15193427.41 0.0274 0.0185

Saturn 36886-05-01 06:00 G 15193515.62 15193515.75 15193515.88 0.0273 0.0065

Saturn 36886-07-28 16:19 G 15193604.06 15193604.18 15193604.32 0.0272 0.0055

Saturn 36886-10-25 02:53 G 15193692.52 15193692.62 15193692.72 0.0271 0.0172

Mars 36887-07-14 22:33 G 15193955.33 15193955.44 15193955.56 0.1910 0.0535

Jupiter 36890-08-29 16:19 G 15195097.09 15195097.18 15195097.28 0.0521 0.0318

Jupiter 36890-11-26 21:21 G 15195186.28 15195186.39 15195186.50 0.0519 0.0274

Moon 36895-06-24 14:24 G 15196857.03 15196857.10 15196857.17 0.2658 0.2057

Earth 36895-06-24 14:53 G 15196857.05 15196857.12 15196857.18 0.2652 0.2050 *

Jupiter 36896-10-24 01:55 G 15197344.50 15197344.58 15197344.67 0.0505 0.0447

Mars 36896-12-04 06:43 G 15197385.76 15197385.78 15197385.80 0.1916 0.1873

Jupiter 36897-01-22 13:26 G 15197434.94 15197435.06 15197435.18 0.0507 0.0380

Saturn 36902-05-14 07:26 G 15199371.65 15199371.81 15199371.98 0.0290 0.0139

Moon 36902-06-18 15:50 G 15199407.08 15199407.16 15199407.25 0.2646 0.1572

Earth 36902-06-18 16:05 G 15199407.09 15199407.17 15199407.26 0.2653 0.1533 *

Jupiter 36902-06-18 20:53 G 15199407.32 15199407.37 15199407.42 0.0522 0.0465

Saturn 36902-08-11 08:09 G 15199460.66 15199460.84 15199461.02 0.0291 0.0070

Jupiter 36902-09-16 01:41 G 15199496.45 15199496.57 15199496.70 0.0520 0.0127

Saturn 36902-11-08 08:24 G 15199549.80 15199549.85 15199549.91 0.0292 0.0277

Mars 36905-07-01 18:14 G 15200516.14 15200516.26 15200516.38 0.1632 0.1117

Earth 36905-12-18 21:21 G 15200686.34 15200686.39 15200686.45 0.2679 0.2529

Moon 36905-12-18 23:17 G 15200686.39 15200686.47 15200686.55 0.2679 0.2282 *

Jupiter 36908-11-11 10:05 G 15201744.75 15201744.92 15201745.09 0.0506 0.0172

Jupiter 36914-07-05 06:29 G 15203806.64 15203806.77 15203806.90 0.0520 0.0015

Mars 36914-11-21 20:38 G 15203946.19 15203946.36 15203946.52 0.1627 0.0187

Moon 36915-06-21 08:38 G 15204157.75 15204157.86 15204157.97 0.2650 0.0356

Earth 36915-06-21 09:21 G 15204157.78 15204157.89 15204157.99 0.2653 0.0283 *

Saturn 36915-06-22 22:19 G 15204159.35 15204159.43 15204159.51 0.0273 0.0217

Saturn 36915-09-19 08:38 G 15204247.74 15204247.86 15204247.99 0.0272 0.0099

Saturn 36915-12-16 19:12 G 15204336.17 15204336.30 15204336.43 0.0271 0.0021

Saturn 36916-03-14 05:31 G 15204424.62 15204424.73 15204424.85 0.0271 0.0140

Saturn 36916-06-10 16:05 G 15204513.14 15204513.17 15204513.21 0.0270 0.0257

Mars 36917-08-23 14:38 G 15204952.02 15204952.11 15204952.21 0.1904 0.0997

Uranus 36918-05-13 12:00 G 15205214.95 15205215.00 15205215.06 0.0143 0.0128

Uranus 36918-08-09 15:36 G 15205303.07 15205303.15 15205303.24 0.0144 0.0107

Uranus 36918-11-05 19:12 G 15205391.20 15205391.30 15205391.41 0.0144 0.0086

Earth 36918-12-22 06:57 G 15205437.63 15205437.79 15205437.94 0.2679 0.0676

Moon 36918-12-22 08:38 G 15205437.70 15205437.86 15205438.01 0.2676 0.0958 *

Uranus 36919-02-01 23:02 G 15205479.34 15205479.46 15205479.58 0.0144 0.0064

Uranus 36919-05-01 02:38 G 15205567.48 15205567.61 15205567.74 0.0144 0.0043

Uranus 36919-07-28 06:14 G 15205655.63 15205655.76 15205655.90 0.0144 0.0021

Uranus 36919-10-24 10:05 G 15205743.78 15205743.92 15205744.05 0.0144 0.0002

Uranus 36920-01-20 13:41 G 15205831.94 15205832.07 15205832.21 0.0144 0.0023

Uranus 36920-04-17 17:31 G 15205920.10 15205920.23 15205920.36 0.0144 0.0045

Uranus 36920-07-14 21:07 G 15206008.27 15206008.38 15206008.51 0.0144 0.0068

Venus 36920-07-16 10:48 G 15206009.86 15206009.95 15206010.05 0.3686 0.1803

Jupiter 36920-08-30 06:00 G 15206054.57 15206054.75 15206054.94 0.0506 0.0044

Uranus 36920-10-11 00:57 G 15206096.44 15206096.54 15206096.65 0.0144 0.0090

Uranus 36921-01-07 05:02 G 15206184.62 15206184.71 15206184.79 0.0144 0.0112

Uranus 36921-04-05 08:38 G 15206272.82 15206272.86 15206272.91 0.0144 0.0134

Mars 36924-04-12 22:33 G 15207376.38 15207376.44 15207376.50 0.1623 0.1505

Venus 36926-01-30 03:21 G 15208033.53 15208033.64 15208033.74 0.3685 0.0203

Jupiter 36926-04-23 11:17 G 15208116.85 15208116.97 15208117.09 0.0521 0.0158

Jupiter 36926-07-21 16:05 G 15208206.11 15208206.17 15208206.24 0.0518 0.0436

Mars 36927-01-13 22:48 G 15208382.33 15208382.45 15208382.56 0.1910 0.0372

Moon 36928-06-23 01:41 G 15208908.47 15208908.57 15208908.67 0.2654 0.0977

Earth 36928-06-23 02:24 G 15208908.50 15208908.60 15208908.70 0.2652 0.1021 *

Venus 36931-08-15 19:41 G 15210057.24 15210057.32 15210057.41 0.3685 0.2183

Saturn 36931-10-01 04:33 G 15210103.56 15210103.69 15210103.82 0.0289 0.0206

Saturn 36931-12-29 05:17 G 15210192.53 15210192.72 15210192.90 0.0290 0.0003

Saturn 36932-03-27 05:31 G 15210281.61 15210281.73 15210281.86 0.0291 0.0209

Jupiter 36932-06-18 03:07 G 15210364.47 15210364.63 15210364.79 0.0505 0.0243

Earth 36935-06-17 03:50 G 15211458.63 15211458.66 15211458.69 0.2653 0.2533

Moon 36935-06-17 04:05 G 15211458.64 15211458.67 15211458.69 0.2647 0.2550 *

Venus 36935-08-14 20:09 G 15211517.19 15211517.34 15211517.48 0.3685 0.0855

Mars 36936-06-05 06:43 G 15211812.73 15211812.78 15211812.83 0.1916 0.1718

Jupiter 36938-02-09 15:07 G 15212427.03 15212427.13 15212427.23 0.0521 0.0315

Jupiter 36938-05-09 19:55 G 15212516.22 15212516.33 15212516.44 0.0519 0.0276

Moon 36941-06-25 19:12 G 15213659.25 15213659.30 15213659.36 0.2659 0.2232

Earth 36941-06-25 19:26 G 15213659.26 15213659.31 15213659.36 0.2652 0.2309 *

Jupiter 36944-04-06 00:14 G 15214674.43 15214674.51 15214674.60 0.0505 0.0440

Jupiter 36944-07-05 12:00 G 15214764.89 15214765.00 15214765.12 0.0507 0.0389

Saturn 36944-11-09 01:12 G 15214891.51 15214891.55 15214891.61 0.0274 0.0250

Mars 36944-12-30 18:57 G 15214943.20 15214943.29 15214943.38 0.1632 0.1333

Saturn 36945-02-05 11:45 G 15214979.88 15214979.99 15214980.11 0.0273 0.0129

Saturn 36945-05-04 22:19 G 15215068.29 15215068.43 15215068.56 0.0272 0.0013

Saturn 36945-08-01 08:38 G 15215156.74 15215156.86 15215156.98 0.0271 0.0109

Saturn 36945-10-28 18:57 G 15215245.23 15215245.29 15215245.37 0.0270 0.0228

Neptune 36948-02-14 10:33 G 15216083.89 15216083.94 15216084.02 0.0089 0.0084

Neptune 36948-05-12 14:09 G 15216172.00 15216172.09 15216172.21 0.0089 0.0073

Moon 36948-06-18 20:38 G 15216209.26 15216209.36 15216209.45 0.2646 0.1281

Earth 36948-06-18 20:53 G 15216209.28 15216209.37 15216209.46 0.2653 0.1272 *

Neptune 36948-08-08 18:00 G 15216260.12 15216260.25 15216260.39 0.0089 0.0062

Neptune 36948-11-04 21:07 G 15216348.24 15216348.38 15216348.56 0.0089 0.0052

Neptune 36949-02-01 00:57 G 15216436.38 15216436.54 15216436.72 0.0089 0.0041

Neptune 36949-04-30 04:33 G 15216524.52 15216524.69 15216524.88 0.0089 0.0030

Neptune 36949-07-27 08:09 G 15216612.66 15216612.84 15216613.03 0.0089 0.0019

Neptune 36949-10-23 11:45 G 15216700.80 15216700.99 15216701.18 0.0089 0.0009

Jupiter 36949-11-28 19:26 G 15216737.26 15216737.31 15216737.37 0.0521 0.0463

Neptune 36950-01-19 15:21 G 15216788.94 15216789.14 15216789.33 0.0089 0.0003

Jupiter 36950-02-26 00:14 G 15216826.39 15216826.51 15216826.64 0.0519 0.0128

Neptune 36950-04-17 18:43 G 15216877.09 15216877.28 15216877.47 0.0089 0.0013

Neptune 36950-07-14 22:05 G 15216965.24 15216965.42 15216965.61 0.0089 0.0024

Neptune 36950-10-11 01:41 G 15217053.40 15217053.57 15217053.75 0.0089 0.0034

Neptune 36951-01-07 04:48 G 15217141.55 15217141.70 15217141.88 0.0089 0.0045

Neptune 36951-04-05 08:38 G 15217229.71 15217229.86 15217230.01 0.0089 0.0055

Neptune 36951-07-02 11:45 G 15217317.88 15217317.99 15217318.13 0.0089 0.0066

Neptune 36951-09-28 15:21 G 15217406.05 15217406.14 15217406.25 0.0089 0.0076

Earth 36951-12-20 04:19 G 15217488.57 15217488.68 15217488.79 0.2679 0.1935

Moon 36951-12-20 06:14 G 15217488.64 15217488.76 15217488.88 0.2678 0.1755 *

Neptune 36951-12-25 18:29 G 15217494.25 15217494.27 15217494.33 0.0089 0.0087

Mars 36954-05-22 21:07 G 15218373.21 15218373.38 15218373.54 0.1627 0.0028

Jupiter 36956-04-23 08:38 G 15219074.69 15219074.86 15219075.04 0.0506 0.0183

Mars 36957-02-21 14:38 G 15219379.02 15219379.11 15219379.20 0.1905 0.1136

Uranus 36958-12-18 11:31 G 15220043.93 15220043.98 15220044.04 0.0135 0.0129

Uranus 36959-03-16 18:29 G 15220132.16 15220132.27 15220132.40 0.0135 0.0104

Uranus 36959-06-13 01:41 G 15220220.42 15220220.57 15220220.73 0.0135 0.0078

Uranus 36959-09-09 08:38 G 15220308.69 15220308.86 15220309.04 0.0135 0.0052

Uranus 36959-12-06 15:50 G 15220396.97 15220397.16 15220397.34 0.0135 0.0027

Uranus 36960-03-03 22:33 G 15220485.25 15220485.44 15220485.63 0.0134 0.0003

Uranus 36960-05-31 05:31 G 15220573.54 15220573.73 15220573.92 0.0134 0.0023

Uranus 36960-08-27 12:14 G 15220661.84 15220662.01 15220662.19 0.0134 0.0048

Uranus 36960-11-23 18:43 G 15220750.14 15220750.28 15220750.45 0.0134 0.0074

Saturn 36961-02-17 02:38 G 15220835.54 15220835.61 15220835.68 0.0289 0.0268

Uranus 36961-02-20 01:41 G 15220838.45 15220838.57 15220838.70 0.0134 0.0097

Saturn 36961-05-17 03:21 G 15220924.46 15220924.64 15220924.82 0.0290 0.0060

Uranus 36961-05-19 08:24 G 15220926.78 15220926.85 15220926.93 0.0134 0.0122

Moon 36961-06-21 13:12 G 15220959.95 15220960.05 15220960.16 0.2652 0.0151

Earth 36961-06-21 13:55 G 15220959.97 15220960.08 15220960.19 0.2653 0.0058 *

Saturn 36961-08-14 03:36 G 15221013.50 15221013.65 15221013.82 0.0291 0.0149

Jupiter 36961-12-15 04:48 G 15221136.57 15221136.70 15221136.82 0.0520 0.0024

Mars 36963-10-12 23:17 G 15221803.37 15221803.47 15221803.56 0.1623 0.1304

Earth 36964-12-22 13:41 G 15222239.93 15222240.07 15222240.22 0.2679 0.1262

Moon 36964-12-22 15:21 G 15222240.00 15222240.14 15222240.28 0.2676 0.1408 *

Mars 36966-07-14 22:48 G 15222809.33 15222809.45 15222809.56 0.1910 0.0199

Jupiter 36968-02-10 05:17 G 15223384.54 15223384.72 15223384.91 0.0506 0.0025

Venus 36971-08-07 16:19 G 15224659.12 15224659.18 15224659.23 0.3687 0.3046

Jupiter 36973-10-03 09:36 G 15225446.78 15225446.90 15225447.02 0.0521 0.0161

Jupiter 36973-12-31 14:24 G 15225536.04 15225536.10 15225536.17 0.0519 0.0434

Moon 36974-06-24 06:29 G 15225710.67 15225710.77 15225710.87 0.2655 0.1164

Earth 36974-06-24 06:57 G 15225710.70 15225710.79 15225710.89 0.2652 0.1286 *

Saturn 36974-06-25 14:09 G 15225711.99 15225712.09 15225712.20 0.0273 0.0165

Saturn 36974-09-22 00:43 G 15225800.40 15225800.53 15225800.66 0.0272 0.0045

Saturn 36974-12-19 11:02 G 15225888.84 15225888.96 15225889.09 0.0271 0.0074

Saturn 36975-03-17 21:21 G 15225977.31 15225977.39 15225977.49 0.0270 0.0192

Mars 36975-12-05 06:43 G 15226239.72 15226239.78 15226239.85 0.1916 0.1561

Venus 36977-02-20 08:38 G 15226682.76 15226682.86 15226682.96 0.3686 0.1102

Jupiter 36979-11-29 01:26 G 15227694.39 15227694.56 15227694.72 0.0505 0.0238

Moon 36981-06-17 08:38 G 15228260.80 15228260.86 15228260.91 0.2646 0.2209

Earth 36981-06-17 08:38 G 15228260.80 15228260.86 15228260.91 0.2653 0.2281 *

Venus 36982-09-06 00:57 G 15228706.44 15228706.54 15228706.64 0.3685 0.0883

Mars	36984-06-30 19:26	G	15229370.26	15229370.31	15229370.37	0.1632	0.1534	
Jupiter	36985-07-22 14:24	G	15229756.99	15229757.10	15229757.20	0.0521	0.0302	
Jupiter	36985-10-19 19:12	G	15229846.20	15229846.30	15229846.41	0.0519	0.0291	
Venus	36986-09-04 16:05	G	15230166.06	15230166.17	15230166.28	0.3685	0.2367	
Moon	36987-06-27 00:00	G	15230461.49	15230461.50	15230461.52	0.2659	0.2608	
Earth	36987-06-27 00:14	G	15230461.49	15230461.51	15230461.53	0.2652	0.2570	*
Venus	36988-03-21 17:31	G	15230730.16	15230730.23	15230730.29	0.3685	0.2912	
Saturn	36990-10-03 23:31	G	15231656.32	15231656.48	15231656.64	0.0289	0.0135	
Saturn	36991-01-01 00:00	G	15231745.33	15231745.50	15231745.68	0.0290	0.0073	
Saturn	36991-03-31 00:14	G	15231834.47	15231834.51	15231834.57	0.0291	0.0281	
Jupiter	36991-09-16 22:19	G	15232004.35	15232004.43	15232004.53	0.0505	0.0437	
Jupiter	36991-12-16 10:05	G	15232094.81	15232094.92	15232095.04	0.0507	0.0392	
Venus	36992-03-20 20:53	G	15232190.27	15232190.37	15232190.48	0.3685	0.2410	
Mars	36993-11-20 21:50	G	15232800.25	15232800.41	15232800.57	0.1627	0.0222	
Moon	36994-06-20 01:12	G	15233011.45	15233011.55	15233011.65	0.2648	0.1104	
Earth	36994-06-20 01:41	G	15233011.47	15233011.57	15233011.67	0.2653	0.1015	*
Mars	36996-08-22 14:38	G	15233806.03	15233806.11	15233806.20	0.1904	0.1310	
Jupiter	36997-05-10 18:14	G	15234067.20	15234067.26	15234067.32	0.0521	0.0456	
Jupiter	36997-08-07 23:02	G	15234156.34	15234156.46	15234156.59	0.0519	0.0134	
Earth	36997-12-20 11:17	G	15234290.83	15234290.97	15234291.12	0.2679	0.1330	
Moon	36997-12-20 13:12	G	15234290.90	15234291.05	15234291.21	0.2678	0.1006	*

38TH MILLENNIUM CE

This is a list of transits of Mercury in the 38th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S

	TRANSIT TIME					
Uranus	**37002-03-07 15:50 G**	**15235828.16**	**15235828.16**	**15235828.18**	**0.0143**	**0.0143**
Uranus	**37002-06-03 19:26 G**	**15235916.25**	**15235916.31**	**15235916.39**	**0.0143**	**0.0122**
Uranus	**37002-08-30 23:02 G**	**15236004.38**	**15236004.46**	**15236004.56**	**0.0144**	**0.0101**
Uranus	**37002-11-27 02:53 G**	**15236092.51**	**15236092.62**	**15236092.73**	**0.0144**	**0.0079**
Uranus	**37003-02-23 06:29 G**	**15236180.65**	**15236180.77**	**15236180.89**	**0.0144**	**0.0058**
Mars	**37003-04-13 23:45 G**	**15236230.37**	**15236230.49**	**15236230.62**	**0.1623**	**0.1099**
Uranus	**37003-05-22 10:05 G**	**15236268.80**	**15236268.92**	**15236269.05**	**0.0144**	**0.0036**
Uranus	**37003-08-18 13:55 G**	**15236356.94**	**15236357.08**	**15236357.21**	**0.0144**	**0.0015**
Jupiter	**37003-10-05 07:41 G**	**15236404.65**	**15236404.82**	**15236404.99**	**0.0507**	**0.0197**
Saturn	**37003-11-13 17:02 G**	**15236444.12**	**15236444.21**	**15236444.29**	**0.0274**	**0.0200**
Uranus	**37003-11-14 17:31 G**	**15236445.10**	**15236445.23**	**15236445.37**	**0.0144**	**0.0008**
Saturn	**37004-02-10 03:21 G**	**15236532.51**	**15236532.64**	**15236532.76**	**0.0273**	**0.0080**
Uranus	**37004-02-10 21:21 G**	**15236533.26**	**15236533.39**	**15236533.52**	**0.0144**	**0.0029**
Saturn	**37004-05-08 13:41 G**	**15236620.94**	**15236621.07**	**15236621.20**	**0.0272**	**0.0040**
Uranus	**37004-05-09 00:57 G**	**15236621.42**	**15236621.54**	**15236621.67**	**0.0144**	**0.0052**
Saturn	**37004-08-05 00:14 G**	**15236709.40**	**15236709.51**	**15236709.62**	**0.0271**	**0.0158**
Uranus	**37004-08-05 04:48 G**	**15236709.59**	**15236709.70**	**15236709.82**	**0.0144**	**0.0074** *
Uranus	**37004-11-01 08:24 G**	**15236797.76**	**15236797.85**	**15236797.96**	**0.0144**	**0.0097**
Uranus	**37005-01-28 12:29 G**	**15236885.94**	**15236886.02**	**15236886.10**	**0.0144**	**0.0118**
Uranus	**37005-04-26 16:05 G**	**15236974.15**	**15236974.17**	**15236974.21**	**0.0144**	**0.0141**
Mars	**37006-01-13 22:33 G**	**15237236.33**	**15237236.44**	**15237236.56**	**0.1910**	**0.0093**
Moon	**37007-06-23 18:00 G**	**15237762.14**	**15237762.25**	**15237762.36**	**0.2652**	**0.0184**
Earth	**37007-06-23 18:43 G**	**15237762.17**	**15237762.28**	**15237762.39**	**0.2652**	**0.0262** *
Jupiter	**37009-05-28 03:36 G**	**15238466.52**	**15238466.65**	**15238466.77**	**0.0520**	**0.0017**
Earth	**37010-12-24 20:38 G**	**15239042.24**	**15239042.36**	**15239042.48**	**0.2679**	**0.1846**
Moon	**37010-12-24 21:50 G**	**15239042.30**	**15239042.41**	**15239042.52**	**0.2674**	**0.1984** *
Mars	**37015-06-06 06:43 G**	**15240666.70**	**15240666.78**	**15240666.86**	**0.1916**	**0.1407**
Jupiter	**37015-07-24 04:19 G**	**15240714.50**	**15240714.68**	**15240714.87**	**0.0506**	**0.0011**

Saturn 37020-02-21 20:38 G 15242388.23 15242388.36 15242388.49 0.0289 0.0204

Saturn 37020-05-20 21:21 G 15242477.20 15242477.39 15242477.57 0.0290 0.0005

Moon 37020-06-25 11:17 G 15242512.88 15242512.97 15242513.06 0.2657 0.1486

Earth 37020-06-25 11:45 G 15242512.91 15242512.99 15242513.08 0.2652 0.1543 *

Saturn 37020-08-17 21:36 G 15242566.28 15242566.40 15242566.53 0.0291 0.0212

Jupiter 37021-03-16 07:55 G 15242776.71 15242776.83 15242776.95 0.0521 0.0162

Jupiter 37021-06-13 12:57 G 15242865.97 15242866.04 15242866.11 0.0518 0.0432

Jupiter 37027-05-12 00:57 G 15245024.37 15245024.54 15245024.71 0.0505 0.0214

Earth 37027-06-19 13:12 G 15245062.98 15245063.05 15245063.12 0.2653 0.2019

Moon 37027-06-19 13:12 G 15245062.99 15245063.05 15245063.12 0.2646 0.2071 *

Venus 37028-03-14 13:55 G 15245332.00 15245332.08 15245332.16 0.3687 0.2353

Neptune 37028-06-06 16:48 G 15245416.17 15245416.20 15245416.24 0.0089 0.0085

Neptune 37028-09-02 18:00 G 15245504.20 15245504.25 15245504.32 0.0089 0.0078

Neptune 37028-11-29 19:12 G 15245592.23 15245592.30 15245592.39 0.0089 0.0071

Neptune 37029-02-25 20:38 G 15245680.28 15245680.36 15245680.46 0.0088 0.0063

Neptune 37029-05-24 21:50 G 15245768.32 15245768.41 15245768.52 0.0088 0.0056

Neptune 37029-08-20 23:17 G 15245856.37 15245856.47 15245856.59 0.0088 0.0049

Neptune 37029-11-17 00:29 G 15245944.41 15245944.52 15245944.65 0.0088 0.0042

Neptune 37030-02-13 01:55 G 15246032.46 15246032.58 15246032.71 0.0088 0.0034

Neptune 37030-05-12 03:21 G 15246120.51 15246120.64 15246120.77 0.0088 0.0027

Neptune 37030-08-08 04:33 G 15246208.56 15246208.69 15246208.82 0.0088 0.0020

Neptune 37030-11-04 06:00 G 15246296.62 15246296.75 15246296.88 0.0088 0.0012

Neptune 37031-01-31 07:12 G 15246384.67 15246384.80 15246384.94 0.0088 0.0006

Neptune 37031-04-29 08:38 G 15246472.73 15246472.86 15246472.99 0.0088 0.0002

Neptune 37031-07-26 09:50 G 15246560.78 15246560.91 15246561.05 0.0088 0.0010

Neptune 37031-10-22 11:17 G 15246648.84 15246648.97 15246649.10 0.0088 0.0017

Neptune 37032-01-18 12:29 G 15246736.90 15246737.02 15246737.15 0.0088 0.0025

Neptune 37032-04-15 13:41 G 15246824.96 15246825.07 15246825.21 0.0088 0.0033

Neptune 37032-07-12 15:07 G 15246913.02 15246913.13 15246913.26 0.0088 0.0040

Neptune 37032-10-08 16:33 G 15247001.08 15247001.19 15247001.31 0.0088 0.0047

Jupiter 37033-01-02 12:43 G 15247086.93 15247087.03 15247087.14 0.0521 0.0302

Neptune 37033-01-04 17:45 G 15247089.15 15247089.24 15247089.36 0.0088 0.0055

Jupiter 37033-04-01 17:45 G 15247176.14 15247176.24 15247176.34 0.0519 0.0292

Saturn 37033-04-01 19:12 G 15247176.24 15247176.30 15247176.36 0.0274 0.0238 *

Neptune 37033-04-02 19:12 G 15247177.21 15247177.30 15247177.40 0.0088 0.0062

Mars 37033-05-22 22:19 G 15247227.28 15247227.43 15247227.59 0.1628 0.0426

Saturn 37033-06-29 05:45 G 15247264.62 15247264.74 15247264.85 0.0273 0.0118

Neptune 37033-06-29 20:24 G 15247265.28 15247265.35 15247265.45 0.0088 0.0070

Saturn 37033-09-25 16:05 G 15247353.04 15247353.17 15247353.30 0.0272 0.0002

Neptune 37033-09-25 21:50 G 15247353.36 15247353.41 15247353.49 0.0088 0.0077

Venus 37033-09-28 06:14 G 15247355.65 15247355.76 15247355.86 0.3686 0.0393

Neptune 37033-12-22 23:31 G 15247441.44 15247441.48 15247441.52 0.0088 0.0084

Saturn 37033-12-23 02:24 G 15247441.49 15247441.60 15247441.72 0.0271 0.0121 *

Saturn 37034-03-21 12:57 G 15247529.98 15247530.04 15247530.10 0.0270 0.0238

Mars 37036-02-22 14:38 G 15248233.04 15248233.11 15248233.19 0.1904 0.1465

Pluto 37039-01-05 14:38 G 15249281.08 15249281.11 15249281.13 0.0069 0.0068

Jupiter 37039-02-27 21:07 G 15249334.29 15249334.38 15249334.48 0.0505 0.0425

Pluto 37039-04-03 15:07 G 15249369.06 15249369.13 15249369.20 0.0069 0.0058

Venus 37039-04-13 22:33 G 15249379.35 15249379.44 15249379.54 0.3685 0.1602

Jupiter 37039-05-29 08:38 G 15249424.76 15249424.86 15249424.98 0.0507 0.0403

Pluto 37039-06-30 15:36 G 15249457.06 15249457.15 15249457.25 0.0069 0.0048

Pluto 37039-09-26 16:05 G 15249545.06 15249545.17 15249545.28 0.0069 0.0037

Pluto 37039-12-23 16:33 G 15249633.08 15249633.19 15249633.32 0.0069 0.0027

Pluto 37040-03-20 17:17 G 15249721.09 15249721.22 15249721.35 0.0070 0.0017

Pluto 37040-06-16 17:45 G 15249809.11 15249809.24 15249809.37 0.0070 0.0007

Moon 37040-06-21 05:45 G 15249813.64 15249813.74 15249813.85 0.2649 0.0775

Earth 37040-06-21 06:14 G 15249813.66 15249813.76 15249813.87 0.2653 0.0763 *

Pluto 37040-09-12 18:29 G 15249897.13 15249897.27 15249897.40 0.0070 0.0004

Pluto 37040-12-09 18:57 G 15249985.16 15249985.29 15249985.42 0.0070 0.0014

Pluto 37041-03-07 19:26 G 15250073.19 15250073.31 15250073.43 0.0070 0.0024

Pluto 37041-06-03 19:55 G 15250161.22 15250161.33 15250161.45 0.0070 0.0035

Pluto 37041-08-30 20:38 G 15250249.26 15250249.36 15250249.46 0.0070 0.0046

Pluto 37041-11-26 20:53 G 15250337.31 15250337.37 15250337.46 0.0070 0.0057

Pluto 37042-02-22 21:21 G 15250425.37 15250425.39 15250425.44 0.0070 0.0067

Mars 37042-10-13 00:29 G 15250657.39 15250657.52 15250657.66 0.1623 0.0894

Uranus 37043-01-08 19:55 G 15250745.26 15250745.33 15250745.44 0.0135 0.0118

Uranus 37043-04-07 03:07 G 15250833.50 15250833.63 15250833.78 0.0135 0.0092

Venus 37043-04-12 17:17 G 15250839.08 15250839.22 15250839.36 0.3685 0.0743

Uranus 37043-07-04 10:05 G 15250921.77 15250921.92 15250922.10 0.0135 0.0067

Uranus 37043-09-30 17:17 G 15251010.04 15251010.22 15251010.41 0.0135 0.0041

Earth 37043-12-22 18:29 G 15251093.11 15251093.27 15251093.42 0.2679 0.0727

Moon 37043-12-22 20:09 G 15251093.19 15251093.34 15251093.50 0.2678 0.0584 *

Uranus 37043-12-28 00:14 G 15251098.33 15251098.51 15251098.70 0.0135 0.0016

Uranus 37044-03-25 07:12 G 15251186.61 15251186.80 15251186.99 0.0134 0.0010

Uranus 37044-06-21 14:09 G 15251274.91 15251275.09 15251275.27 0.0134 0.0035

Uranus 37044-09-17 20:53 G 15251363.20 15251363.37 15251363.54 0.0134 0.0059

Jupiter 37044-10-21 17:45 G 15251397.17 15251397.24 15251397.30 0.0522 0.0440

Venus 37044-10-27 15:07 G 15251403.12 15251403.13 15251403.14 0.3685 0.3652

Uranus 37044-12-15 03:21 G 15251451.51 15251451.64 15251451.80 0.0134 0.0084

Jupiter 37045-01-18 22:33 G 15251486.32 15251486.44 15251486.56 0.0520 0.0152

Uranus 37045-03-13 10:05 G 15251539.82 15251539.92 15251540.04 0.0134 0.0109

Uranus 37045-06-09 17:02 G 15251628.19 15251628.21 15251628.24 0.0134 0.0132

Mars 37045-07-14 22:48 G 15251663.33 15251663.45 15251663.56 0.1910 0.0128

Saturn 37049-07-10 15:50 G 15253120.15 15253120.16 15253120.20 0.0288 0.0285

Saturn 37049-10-07 16:48 G 15253209.02 15253209.20 15253209.38 0.0289 0.0077

Saturn 37050-01-04 17:17 G 15253298.06 15253298.22 15253298.39 0.0291 0.0132

Jupiter 37051-03-17 06:14 G 15253734.59 15253734.76 15253734.93 0.0506 0.0207

Moon 37053-06-23 22:48 G 15254564.34 15254564.45 15254564.56 0.2652 0.0395

Earth 37053-06-23 23:31 G 15254564.37 15254564.48 15254564.58 0.2652 0.0528 *

Mars 37054-12-05 06:43 G 15255093.70 15255093.78 15255093.87 0.1915 0.1244

Jupiter 37056-11-07 02:38 G 15255796.48 15255796.61 15255796.74 0.0520 0.0007

Earth 37056-12-25 03:36 G 15255844.59 15255844.65 15255844.72 0.2679 0.2442

Moon 37056-12-25 04:33 G 15255844.65 15255844.69 15255844.73 0.2673 0.2592 *

Saturn 37062-11-16 07:55 G 15257996.73 15257996.83 15257996.94 0.0274 0.0157

Jupiter 37063-01-03 03:36 G 15258044.47 15258044.65 15258044.84 0.0506 0.0011

Saturn 37063-02-12 18:29 G 15258085.14 15258085.27 15258085.40 0.0273 0.0037

Saturn 37063-05-12 04:48 G 15258173.58 15258173.70 15258173.83 0.0272 0.0083

Saturn 37063-08-08 15:21 G 15258262.05 15258262.14 15258262.23 0.0271 0.0201

Moon 37066-06-26 16:05 G 15259315.09 15259315.17 15259315.25 0.2658 0.1766

Earth 37066-06-26 16:33 G 15259315.11 15259315.19 15259315.27 0.2652 0.1804 *

Jupiter 37068-08-26 07:12 G 15260106.67 15260106.80 15260106.92 0.0520 0.0150

Jupiter 37068-11-23 12:00 G 15260195.94 15260196.00 15260196.07 0.0518 0.0442

Mars 37072-11-20 23:02 G 15261654.31 15261654.46 15261654.61 0.1628 0.0621

Moon 37073-06-19 18:00 G 15261865.17 15261865.25 15261865.33 0.2646 0.1715

Earth 37073-06-19 18:00 G 15261865.17 15261865.25 15261865.33 0.2653 0.1763 *

Jupiter 37074-10-22 00:29 G 15262354.35 15262354.52 15262354.69 0.0506 0.0192

Mars 37075-08-23 14:38 G 15262660.05 15262660.11 15262660.17 0.1904 0.1619

Saturn 37079-02-24 13:41 G 15263940.91 15263941.07 15263941.23 0.0289 0.0148

Venus 37079-04-05 19:12 G 15263981.28 15263981.30 15263981.32 0.3687 0.3595

Saturn 37079-05-24 14:24 G 15264029.92 15264030.10 15264030.28 0.0290 0.0060

Saturn 37079-08-21 14:38 G 15264119.05 15264119.11 15264119.19 0.0292 0.0268

Jupiter 37080-06-14 11:31 G 15264416.88 15264416.98 15264417.09 0.0521 0.0296

Jupiter 37080-09-11 16:33 G 15264506.08 15264506.19 15264506.29 0.0519 0.0296

Mars 37082-04-13 01:12 G 15265084.40 15265084.55 15265084.70 0.1623 0.0691

Venus 37084-10-19 11:31 G 15266004.89 15266004.98 15266005.07 0.3686 0.1658

Mars 37085-01-12 22:48 G 15266090.34 15266090.45 15266090.56 0.1910 0.0278

Uranus 37086-03-27 23:17 G 15266529.44 15266529.47 15266529.52 0.0143 0.0137

Moon 37086-06-22 10:33 G 15266615.83 15266615.94 15266616.04 0.2649 0.0641

Earth 37086-06-22 11:02 G 15266615.86 15266615.96 15266616.07 0.2653 0.0494 *

Uranus 37086-06-24 02:53 G 15266617.55 15266617.62 15266617.70 0.0144 0.0116

Jupiter 37086-08-09 21:07 G 15266664.27 15266664.38 15266664.49 0.0505 0.0398

Uranus 37086-09-20 06:29 G 15266705.68 15266705.77 15266705.88 0.0144 0.0095

Jupiter 37086-11-08 08:38 G 15266754.77 15266754.86 15266754.96 0.0507 0.0431

Uranus 37086-12-17 10:19 G 15266793.82 15266793.93 15266794.04 0.0144 0.0073

Uranus 37087-03-15 13:55 G 15266881.96 15266882.08 15266882.21 0.0144 0.0052

Uranus 37087-06-11 17:31 G 15266970.10 15266970.23 15266970.36 0.0144 0.0030

Uranus 37087-09-07 21:21 G 15267058.25 15267058.39 15267058.52 0.0144 0.0009

Uranus 37087-12-05 00:57 G 15267146.41 15267146.54 15267146.68 0.0144 0.0014

Uranus 37088-03-02 04:48 G 15267234.57 15267234.70 15267234.83 0.0144 0.0036

Uranus 37088-05-29 08:24 G 15267322.73 15267322.85 15267322.98 0.0144 0.0058

Uranus 37088-08-25 12:00 G 15267410.90 15267411.00 15267411.12 0.0144 0.0081

Uranus 37088-11-21 15:50 G 15267499.08 15267499.16 15267499.26 0.0144 0.0103

Uranus 37089-02-17 19:55 G 15267587.26 15267587.33 15267587.40 0.0144 0.0125

Earth 37089-12-23 01:26 G 15267895.39 15267895.56 15267895.72 0.2679 0.0152

Moon 37089-12-23 02:53 G 15267895.46 15267895.62 15267895.79 0.2677 0.0192 *

Venus 37090-05-05 03:50 G 15268028.55 15268028.66 15268028.76 0.3686 0.0310

Jupiter 37092-04-02 16:19 G 15268727.12 15268727.18 15268727.25 0.0522 0.0437

Saturn 37092-04-04 10:05 G 15268728.83 15268728.92 15268729.01 0.0274 0.0197

Jupiter 37092-06-30 21:21 G 15268816.27 15268816.39 15268816.51 0.0520 0.0157

Saturn 37092-07-01 20:24 G 15268817.23 15268817.35 15268817.48 0.0273 0.0077

Saturn 37092-09-28 06:57 G 15268905.66 15268905.79 15268905.92 0.0272 0.0043

Saturn 37092-12-25 17:17 G 15268994.12 15268994.22 15268994.33 0.0271 0.0162

Mars 37094-06-05 06:43 G 15269520.69 15269520.78 15269520.87 0.1915 0.1095

Venus 37095-11-18 20:24 G 15270052.26 15270052.35 15270052.43 0.3685 0.2330

Jupiter 37098-08-27 05:17 G 15271064.55 15271064.72 15271064.88 0.0506 0.0223

Moon 37099-06-25 03:36 G 15271366.54 15271366.65 15271366.75 0.2653 0.0742

Earth 37099-06-25 04:05 G 15271366.57 15271366.67 15271366.78 0.2652 0.0786 *

Venus 37099-11-17 18:00 G 15271512.11 15271512.25 15271512.40 0.3685 0.0839

Jupiter 37104-04-20 02:09 G 15273126.46 15273126.59 15273126.71 0.0520 0.0019

Saturn 37108-07-14 08:24 G 15274672.75 15274672.85 15274672.97 0.0288 0.0234

Saturn 37108-10-11 09:21 G 15274761.70 15274761.89 15274762.07 0.0290 0.0026

Saturn 37109-01-08 09:50 G 15274850.77 15274850.91 15274851.05 0.0291 0.0182

Jupiter 37110-06-16 02:38 G 15275374.42 15275374.61 15275374.79 0.0506 0.0027

Mars 37112-05-22 23:45 G 15276081.35 15276081.49 15276081.63 0.1628 0.0832

Moon 37112-06-27 20:53 G 15276117.30 15276117.37 15276117.44 0.2658 0.1989

Earth 37112-06-27 21:21 G 15276117.32 15276117.39 15276117.45 0.2652 0.2065 *

Neptune 37112-11-12 07:26 G 15276254.76 15276254.81 15276254.88 0.0089 0.0084

Neptune 37113-02-08 11:02 G 15276342.86 15276342.96 15276343.08 0.0089 0.0073

Neptune 37113-05-07 14:53 G 15276430.98 15276431.12 15276431.26 0.0089 0.0062

Neptune 37113-08-03 18:00 G 15276519.11 15276519.25 15276519.42 0.0089 0.0052

Neptune 37113-10-30 21:36 G 15276607.25 15276607.40 15276607.59 0.0089 0.0041

Neptune 37114-01-27 01:26 G 15276695.38 15276695.56 15276695.75 0.0089 0.0030

Neptune 37114-04-25 05:02 G 15276783.52 15276783.71 15276783.90 0.0089 0.0019

Neptune 37114-07-22 08:38 G 15276871.67 15276871.86 15276872.05 0.0089 0.0008

Neptune 37114-10-18 12:14 G 15276959.81 15276960.01 15276960.20 0.0089 0.0003

Neptune 37115-01-14 15:36 G 15277047.96 15277048.15 15277048.34 0.0089 0.0013

Mars 37115-02-22 14:38 G 15277087.08 15277087.11 15277087.15 0.1904 0.1784

Neptune 37115-04-12 18:57 G 15277136.11 15277136.29 15277136.48 0.0089 0.0024

Neptune 37115-07-09 22:33 G 15277224.27 15277224.44 15277224.62 0.0089 0.0034

Neptune 37115-10-06 01:55 G 15277312.42 15277312.58 15277312.75 0.0089 0.0045

Neptune 37116-01-02 05:17 G 15277400.59 15277400.72 15277400.88 0.0089 0.0056

Jupiter 37116-02-07 06:14 G 15277436.64 15277436.76 15277436.88 0.0520 0.0136

Neptune 37116-03-30 08:53 G 15277488.75 15277488.87 15277489.00 0.0089 0.0066

Jupiter 37116-05-06 11:02 G 15277525.91 15277525.96 15277526.02 0.0518 0.0456

Neptune 37116-06-26 12:00 G 15277576.93 15277577.00 15277577.12 0.0089 0.0077

Neptune 37116-09-22 15:36 G 15277665.13 15277665.15 15277665.20 0.0089 0.0087

Moon 37119-06-21 22:33 G 15278667.35 15278667.44 15278667.53 0.2647 0.1564

Earth 37119-06-21 22:48 G 15278667.36 15278667.45 15278667.54 0.2653 0.1501 *

Saturn 37121-08-23 12:00 G 15279460.94 15279461.00 15279461.07 0.0275 0.0240

Mars 37121-10-13 01:55 G 15279511.42 15279511.58 15279511.73 0.1623 0.0485

Saturn 37121-11-19 22:33 G 15279549.32 15279549.44 15279549.56 0.0274 0.0119

Saturn 37122-02-16 09:07 G 15279637.74 15279637.88 15279638.01 0.0273 0.0010

Jupiter 37122-04-03 23:45 G 15279684.32 15279684.49 15279684.67 0.0506 0.0172

Saturn 37122-05-15 19:26 G 15279726.19 15279726.31 15279726.43 0.0272 0.0122

Saturn 37122-08-12 05:45 G 15279814.69 15279814.74 15279814.81 0.0271 0.0241

Moon 37122-12-22 00:43 G 15279946.46 15279946.53 15279946.59 0.2679 0.2417

Mars 37124-07-14 22:33 G 15280517.33 15280517.44 15280517.56 0.1910 0.0421

Pluto 37125-02-10 11:02 G 15280727.90 15280727.96 15280728.05 0.0075 0.0069

Pluto 37125-05-09 13:55 G 15280815.94 15280816.08 15280816.24 0.0075 0.0049

Pluto 37125-08-05 16:33 G 15280904.02 15280904.19 15280904.38 0.0075 0.0030

Pluto 37125-11-01 19:12 G 15280992.11 15280992.30 15280992.50 0.0075 0.0011

Pluto 37126-01-28 21:50 G 15281080.22 15281080.41 15281080.61 0.0075 0.0009

Pluto 37126-04-27 00:14 G 15281168.34 15281168.51 15281168.70 0.0074 0.0028

Pluto 37126-07-24 02:53 G 15281256.47 15281256.62 15281256.78 0.0074 0.0047

Pluto 37126-10-20 05:17 G 15281344.64 15281344.72 15281344.83 0.0074 0.0066

Uranus 37126-11-02 21:21 G 15281358.37 15281358.39 15281358.43 0.0135 0.0133

Uranus 37127-01-30 04:33 G 15281446.58 15281446.69 15281446.81 0.0135 0.0107

Uranus 37127-04-28 11:45 G 15281534.84 15281534.99 15281535.14 0.0135 0.0081

Uranus 37127-07-25 18:43 G 15281623.11 15281623.28 15281623.46 0.0135 0.0056

Uranus 37127-10-22 01:41 G 15281711.39 15281711.57 15281711.76 0.0135 0.0030

Jupiter 37127-11-26 10:48 G 15281746.85 15281746.95 15281747.06 0.0520 0.0280

Uranus 37128-01-18 08:38 G 15281799.67 15281799.86 15281800.05 0.0135 0.0005

Jupiter 37128-02-23 15:36 G 15281836.05 15281836.15 15281836.26 0.0518 0.0311

Uranus 37128-04-15 15:36 G 15281887.96 15281888.15 15281888.34 0.0134 0.0020

Uranus 37128-07-12 22:19 G 15281976.26 15281976.43 15281976.61 0.0134 0.0045

Uranus 37128-10-09 05:02 G 15282064.56 15282064.71 15282064.88 0.0134 0.0070

Uranus 37129-01-05 11:45 G 15282152.87 15282152.99 15282153.13 0.0134 0.0095

Uranus 37129-04-03 18:14 G 15282241.19 15282241.26 15282241.36 0.0134 0.0119

Moon 37132-06-23 15:07 G 15283418.02 15283418.13 15283418.24 0.2649 0.0267

Earth 37132-06-23 15:50 G 15283418.05 15283418.16 15283418.27 0.2653 0.0237 *

Mars	37133-12-05 06:43 G	15283947.68	15283947.78	15283947.88	0.1916	0.0931
Jupiter	37134-01-20 20:38 G	15283994.24	15283994.36	15283994.49	0.0505	0.0374
Jupiter	37134-04-21 08:24 G	15284084.77	15284084.85	15284084.93	0.0507	0.0455
Venus	37135-11-11 16:48 G	15284654.14	15284654.20	15284654.27	0.3687	0.2911
Earth	37135-12-25 08:09 G	15284697.68	15284697.84	15284698.00	0.2679	0.0466
Moon	37135-12-25 09:36 G	15284697.74	15284697.90	15284698.07	0.2675	0.0536 *
Saturn	37138-02-28 06:00 G	15285493.57	15285493.75	15285493.92	0.0289	0.0099
Saturn	37138-05-28 06:29 G	15285582.60	15285582.77	15285582.94	0.0290	0.0109
Jupiter	37139-09-14 15:21 G	15286057.07	15286057.14	15286057.21	0.0521	0.0428
Jupiter	37139-12-12 20:09 G	15286146.22	15286146.34	15286146.46	0.0519	0.0163
Venus	37141-05-27 09:07 G	15286677.78	15286677.88	15286677.98	0.3686	0.0968
Moon	37145-06-26 08:24 G	15288168.75	15288168.85	15288168.95	0.2655	0.0907
Earth	37145-06-26 08:53 G	15288168.77	15288168.87	15288168.97	0.2652	0.1042 *
Jupiter	37146-02-07 05:17 G	15288394.56	15288394.72	15288394.88	0.0507	0.0253
Venus	37146-12-11 01:26 G	15288701.46	15288701.56	15288701.66	0.3686	0.1024
Venus	37150-12-09 14:09 G	15290160.98	15290161.09	15290161.20	0.3684	0.2413
Saturn	37151-04-09 00:29 G	15290281.42	15290281.52	15290281.63	0.0274	0.0160
Saturn	37151-07-06 11:02 G	15290369.83	15290369.96	15290370.09	0.0273	0.0040
Jupiter	37151-10-01 00:57 G	15290456.41	15290456.54	15290456.67	0.0520	0.0024
Saturn	37151-10-02 21:21 G	15290458.27	15290458.39	15290458.52	0.0272	0.0081
Mars	37151-11-22 00:29 G	15290508.39	15290508.52	15290508.64	0.1628	0.1039
Saturn	37151-12-30 07:55 G	15290546.74	15290546.83	15290546.92	0.0271	0.0200
Earth	37152-06-19 10:19 G	15290718.90	15290718.93	15290718.97	0.2653	0.2509
Moon	37152-06-19 10:33 G	15290718.91	15290718.94	15290718.98	0.2646	0.2472 *
Venus	37152-06-25 18:00 G	15290725.19	15290725.25	15290725.31	0.3685	0.3059
Venus	37156-06-24 18:57 G	15292185.19	15292185.29	15292185.40	0.3685	0.2417
Jupiter	37157-11-26 01:55 G	15292704.39	15292704.58	15292704.76	0.0506	0.0046
Moon	37158-06-29 01:41 G	15292919.52	15292919.57	15292919.62	0.2658	0.2326
Earth	37158-06-29 02:09 G	15292919.54	15292919.59	15292919.64	0.2652	0.2329 *
Mars	37161-04-13 02:24 G	15293938.44	15293938.60	15293938.77	0.1623	0.0285

Jupiter 37163-07-20 05:45 G 15294766.62 15294766.74 15294766.87 0.0520 0.0116

Jupiter 37163-10-17 10:48 G 15294855.90 15294855.95 15294856.00 0.0518 0.0477

Mars 37164-01-13 22:33 G 15294944.33 15294944.44 15294944.56 0.1910 0.0585

Moon 37165-06-22 03:07 G 15295469.53 15295469.63 15295469.72 0.2647 0.1274

Earth 37165-06-22 03:36 G 15295469.55 15295469.65 15295469.74 0.2653 0.1249 *

Saturn 37167-07-18 00:43 G 15296225.40 15296225.53 15296225.68 0.0288 0.0185

Saturn 37167-10-15 01:26 G 15296314.38 15296314.56 15296314.75 0.0290 0.0024

Saturn 37168-01-12 01:41 G 15296403.47 15296403.57 15296403.69 0.0291 0.0232

Earth 37168-12-22 05:45 G 15296748.64 15296748.74 15296748.84 0.2679 0.2145

Moon 37168-12-22 07:41 G 15296748.71 15296748.82 15296748.93 0.2679 0.1980 *

Jupiter 37169-09-13 23:02 G 15297014.29 15297014.46 15297014.64 0.0506 0.0153

Uranus 37170-04-18 06:29 G 15297230.73 15297230.77 15297230.82 0.0143 0.0133

Uranus 37170-07-15 10:05 G 15297318.84 15297318.92 15297319.00 0.0143 0.0112

Mars 37170-09-03 04:33 G 15297368.67 15297368.69 15297368.72 0.1619 0.1597

Uranus 37170-10-11 13:41 G 15297406.97 15297407.07 15297407.17 0.0143 0.0091

Uranus 37171-01-07 17:17 G 15297495.11 15297495.22 15297495.34 0.0144 0.0069

Uranus 37171-04-05 20:53 G 15297583.25 15297583.37 15297583.50 0.0144 0.0048

Uranus 37171-07-03 00:29 G 15297671.39 15297671.52 15297671.66 0.0144 0.0027

Uranus 37171-09-29 04:19 G 15297759.55 15297759.68 15297759.81 0.0144 0.0005

Uranus 37171-12-26 07:55 G 15297847.70 15297847.83 15297847.97 0.0144 0.0018

Uranus 37172-03-23 11:45 G 15297935.86 15297935.99 15297936.12 0.0144 0.0039

Uranus 37172-06-19 15:21 G 15298024.02 15298024.14 15298024.27 0.0144 0.0062

Uranus 37172-09-15 19:12 G 15298112.19 15298112.30 15298112.41 0.0144 0.0084

Uranus 37172-12-12 22:48 G 15298200.37 15298200.45 15298200.55 0.0144 0.0106

Uranus 37173-03-11 02:38 G 15298288.56 15298288.61 15298288.68 0.0144 0.0129

Mars 37173-06-05 06:43 G 15298374.67 15298374.78 15298374.88 0.1915 0.0777

Jupiter 37175-05-08 10:05 G 15299076.81 15299076.92 15299077.03 0.0520 0.0265

Jupiter 37175-08-05 14:53 G 15299166.03 15299166.12 15299166.22 0.0518 0.0326

Moon 37178-06-24 19:55 G 15300220.22 15300220.33 15300220.44 0.2650 0.0112

Earth 37178-06-24 20:38 G 15300220.25 15300220.36 15300220.46 0.2652 0.0112 *

Saturn 37180-08-26 02:24 G 15301013.51 15301013.60 15301013.69 0.0275 0.0204

Saturn 37180-11-22 12:43 G 15301101.91 15301102.03 15301102.16 0.0274 0.0084

Saturn 37181-02-18 23:17 G 15301190.34 15301190.47 15301190.60 0.0273 0.0038

Saturn 37181-05-18 09:50 G 15301278.80 15301278.91 15301279.02 0.0272 0.0158

Jupiter 37181-07-02 19:55 G 15301324.20 15301324.33 15301324.47 0.0506 0.0355

Jupiter 37181-10-01 07:41 G 15301414.77 15301414.82 15301414.89 0.0508 0.0478

Earth 37181-12-25 15:07 G 15301499.98 15301500.13 15301500.28 0.2679 0.1052

Moon 37181-12-25 16:19 G 15301500.04 15301500.18 15301500.33 0.2674 0.1315 *

Jupiter 37187-02-24 14:38 G 15303387.04 15303387.11 15303387.19 0.0521 0.0410

Jupiter 37187-05-24 19:26 G 15303476.19 15303476.31 15303476.43 0.0519 0.0181

Mars 37191-05-23 00:57 G 15304935.43 15304935.54 15304935.64 0.1628 0.1229

Moon 37191-06-27 12:57 G 15304970.95 15304971.04 15304971.14 0.2656 0.1292

Earth 37191-06-27 13:41 G 15304970.97 15304971.07 15304971.16 0.2652 0.1305 *

Venus 37192-06-17 14:24 G 15305327.02 15305327.10 15305327.19 0.3687 0.2221

Neptune 37193-03-04 15:36 G 15305587.13 15305587.15 15305587.20 0.0089 0.0085

Neptune 37193-05-31 17:02 G 15305675.16 15305675.21 15305675.28 0.0089 0.0077

Jupiter 37193-07-20 05:02 G 15305724.55 15305724.71 15305724.86 0.0507 0.0277

Neptune 37193-08-27 18:29 G 15305763.19 15305763.27 15305763.35 0.0089 0.0070

Neptune 37193-11-23 19:41 G 15305851.24 15305851.32 15305851.42 0.0089 0.0063

Neptune 37194-02-19 20:53 G 15305939.28 15305939.37 15305939.48 0.0089 0.0056

Neptune 37194-05-18 22:19 G 15306027.33 15306027.43 15306027.55 0.0089 0.0048

Neptune 37194-08-14 23:45 G 15306115.37 15306115.49 15306115.61 0.0089 0.0041

Neptune 37194-11-11 00:57 G 15306203.42 15306203.54 15306203.67 0.0088 0.0034

Neptune 37195-02-07 02:09 G 15306291.47 15306291.59 15306291.73 0.0088 0.0027

Neptune 37195-05-06 03:36 G 15306379.52 15306379.65 15306379.78 0.0088 0.0019

Neptune 37195-08-02 05:02 G 15306467.58 15306467.71 15306467.84 0.0088 0.0012

Neptune 37195-10-29 06:14 G 15306555.63 15306555.76 15306555.90 0.0088 0.0005

Neptune 37196-01-25 07:41 G 15306643.68 15306643.82 15306643.95 0.0088 0.0003

Neptune 37196-04-22 08:53 G 15306731.74 15306731.87 15306732.01 0.0088 0.0010

Neptune 37196-07-19 10:19 G 15306819.80 15306819.93 15306820.06 0.0088 0.0018

Neptune 37196-10-15 11:31 G 15306907.86 15306907.98 15306908.11 0.0088 0.0025

Saturn 37196-12-03 21:21 G 15306957.32 15306957.39 15306957.48 0.0288 0.0256

Neptune 37197-01-11 12:57 G 15306995.92 15306996.04 15306996.16 0.0088 0.0032

Saturn 37197-03-02 22:05 G 15307046.24 15307046.42 15307046.61 0.0289 0.0049

Neptune 37197-04-09 14:09 G 15307083.98 15307084.09 15307084.21 0.0088 0.0040

Saturn 37197-05-30 22:33 G 15307135.29 15307135.44 15307135.60 0.0290 0.0159

Neptune 37197-07-06 15:21 G 15307172.04 15307172.14 15307172.26 0.0088 0.0048

Neptune 37197-10-02 16:48 G 15307260.10 15307260.20 15307260.31 0.0088 0.0055

Neptune 37197-12-29 18:00 G 15307348.17 15307348.25 15307348.36 0.0088 0.0063

Venus 37198-01-01 06:43 G 15307350.67 15307350.78 15307350.89 0.3686 0.0262

Neptune 37198-03-27 19:26 G 15307436.24 15307436.31 15307436.40 0.0088 0.0070

Moon 37198-06-20 15:21 G 15307521.08 15307521.14 15307521.19 0.2647 0.2236

Earth 37198-06-20 15:07 G 15307521.08 15307521.13 15307521.19 0.2653 0.2249 *

Neptune 37198-06-23 20:38 G 15307524.31 15307524.36 15307524.44 0.0088 0.0078

Neptune 37198-09-19 22:05 G 15307612.40 15307612.42 15307612.47 0.0088 0.0085

Jupiter 37199-03-13 00:00 G 15307786.37 15307786.50 15307786.63 0.0520 0.0033

Mars 37200-10-12 03:07 G 15308365.47 15308365.63 15308365.79 0.1624 0.0080

Mars 37203-07-14 22:48 G 15309371.34 15309371.45 15309371.55 0.1909 0.0751

Venus 37203-07-17 23:17 G 15309374.37 15309374.47 15309374.56 0.3685 0.1758

Moon 37204-06-29 06:43 G 15309721.75 15309721.78 15309721.81 0.2658 0.2526

Earth 37204-06-29 06:43 G 15309721.76 15309721.78 15309721.80 0.2652 0.2591 *

Jupiter 37205-05-08 01:55 G 15310034.39 15310034.58 15310034.76 0.0506 0.0074

Venus 37207-07-16 15:21 G 15310833.99 15310834.14 15310834.28 0.3684 0.0782

Saturn 37210-01-13 04:05 G 15311745.62 15311745.67 15311745.73 0.0275 0.0247

Mars 37210-03-04 05:17 G 15311795.64 15311795.72 15311795.80 0.1620 0.1390

Saturn 37210-04-11 14:53 G 15311834.00 15311834.12 15311834.23 0.0274 0.0125

Saturn 37210-07-09 01:12 G 15311922.42 15311922.55 15311922.68 0.0273 0.0005

Saturn 37210-10-05 11:45 G 15312010.87 15312010.99 15312011.11 0.0272 0.0116

Uranus 37210-11-23 05:02 G 15312059.65 15312059.71 15312059.79 0.0135 0.0125

Jupiter 37210-12-30 04:48 G 15312096.57 15312096.70 15312096.82 0.0520 0.0110

Saturn 37211-01-01 22:05 G 15312099.36 15312099.42 15312099.49 0.0271 0.0236

Uranus 37211-02-19 12:14 G 15312147.89 15312148.01 15312148.15 0.0135 0.0099

Jupiter 37211-03-29 09:36 G 15312185.86 15312185.90 15312185.95 0.0518 0.0484

Uranus 37211-05-18 19:26 G 15312236.15 15312236.31 15312236.47 0.0135 0.0073

Moon 37211-06-23 07:41 G 15312271.72 15312271.82 15312271.92 0.2647 0.1055

Earth 37211-06-23 08:09 G 15312271.74 15312271.84 15312271.94 0.2653 0.0987 *

Uranus 37211-08-15 02:24 G 15312324.43 15312324.60 15312324.78 0.0135 0.0048

Uranus 37211-11-11 09:21 G 15312412.71 15312412.89 15312413.08 0.0135 0.0022

Uranus 37212-02-07 16:19 G 15312501.00 15312501.18 15312501.37 0.0135 0.0005

Uranus 37212-05-05 23:17 G 15312589.29 15312589.47 15312589.66 0.0135 0.0029

Uranus 37212-08-02 06:00 G 15312677.59 15312677.75 15312677.93 0.0135 0.0054

Uranus 37212-10-29 12:43 G 15312765.89 15312766.03 15312766.19 0.0134 0.0079

Mars 37212-12-04 06:43 G 15312801.67 15312801.78 15312801.89 0.1915 0.0620

Uranus 37213-01-25 19:26 G 15312854.20 15312854.31 15312854.44 0.0134 0.0103

Uranus 37213-04-24 02:09 G 15312942.55 15312942.59 15312942.66 0.0134 0.0128

Earth 37214-12-23 12:43 G 15313550.90 15313551.03 15313551.16 0.2679 0.1549

Moon 37214-12-23 14:24 G 15313550.96 15313551.10 15313551.25 0.2678 0.1295 *

Jupiter 37217-02-23 22:19 G 15314344.25 15314344.43 15314344.61 0.0506 0.0134

Jupiter 37222-10-18 09:36 G 15316406.79 15316406.90 15316407.01 0.0521 0.0248

Jupiter 37223-01-15 14:24 G 15316496.01 15316496.10 15316496.20 0.0519 0.0345

Moon 37224-06-25 00:43 G 15317022.42 15317022.53 15317022.63 0.2652 0.0249

Earth 37224-06-25 01:12 G 15317022.45 15317022.55 15317022.66 0.2652 0.0290 *

Saturn 37226-07-20 17:02 G 15317778.05 15317778.21 15317778.38 0.0288 0.0135

Saturn 37226-10-17 17:45 G 15317867.06 15317867.24 15317867.42 0.0290 0.0073

Saturn 37227-01-14 18:00 G 15317956.21 15317956.25 15317956.30 0.0291 0.0281

Earth 37227-12-26 22:05 G 15318302.30 15318302.42 15318302.55 0.2679 0.1650

Moon 37227-12-26 23:31 G 15318302.35 15318302.48 15318302.60 0.2674 0.1709 *

Jupiter 37228-12-12 19:26 G 15318654.17 15318654.31 15318654.45 0.0505 0.0333

Jupiter 37229-03-13 07:12 G 15318744.76 15318744.80 15318744.83 0.0507 0.0496

Mars 37230-11-21 01:41 G 15319362.49 15319362.57 15319362.64 0.1628 0.1442

Jupiter 37234-08-06 13:55 G 15320717.01 15320717.08 15320717.17 0.0521 0.0395

Jupiter 37234-11-03 18:43 G 15320806.16 15320806.28 15320806.40 0.0519 0.0196

Moon 37237-06-27 17:45 G 15321773.15 15321773.24 15321773.33 0.2656 0.1435

Earth 37237-06-27 18:29 G 15321773.18 15321773.27 15321773.35 0.2652 0.1569 *

Saturn 37239-08-29 16:33 G 15322566.09 15322566.19 15322566.29 0.0275 0.0170

Saturn 37239-11-26 03:07 G 15322654.50 15322654.63 15322654.76 0.0274 0.0049

Saturn 37240-02-22 13:26 G 15322742.94 15322743.06 15322743.19 0.0273 0.0074

Mars 37240-04-12 03:50 G 15322792.49 15322792.66 15322792.82 0.1624 0.0129

Saturn 37240-05-21 00:00 G 15322831.41 15322831.50 15322831.59 0.0272 0.0193

Jupiter 37240-12-30 04:05 G 15323054.53 15323054.67 15323054.82 0.0507 0.0296

Mars 37243-01-12 22:33 G 15323798.34 15323798.44 15323798.54 0.1909 0.0893

Venus 37243-07-09 19:55 G 15323976.30 15323976.33 15323976.36 0.3687 0.3459

Moon 37244-06-20 19:55 G 15324323.25 15324323.33 15324323.40 0.2646 0.1962

Earth 37244-06-20 19:55 G 15324323.26 15324323.33 15324323.40 0.2653 0.1994 *

Jupiter 37246-08-22 23:17 G 15325116.35 15325116.47 15325116.60 0.0519 0.0052

Venus 37249-01-22 12:00 G 15325999.91 15326000.00 15326000.10 0.3686 0.1528

Mars 37249-09-02 05:45 G 15326222.63 15326222.74 15326222.85 0.1620 0.1198

Mars 37252-06-04 06:43 G 15327228.67 15327228.78 15327228.89 0.1915 0.0462

Jupiter 37252-10-18 01:12 G 15327364.37 15327364.55 15327364.73 0.0507 0.0095

Uranus 37254-05-08 14:09 G 15327932.03 15327932.09 15327932.15 0.0143 0.0125

Uranus 37254-08-04 17:45 G 15328020.15 15328020.24 15328020.33 0.0143 0.0104

Venus 37254-08-08 04:19 G 15328023.58 15328023.68 15328023.79 0.3686 0.0466

Uranus 37254-10-31 21:21 G 15328108.28 15328108.39 15328108.50 0.0143 0.0083

Uranus 37255-01-28 00:57 G 15328196.42 15328196.54 15328196.66 0.0144 0.0062

Uranus 37255-04-26 04:33 G 15328284.57 15328284.69 15328284.82 0.0144 0.0041

Uranus 37255-07-23 08:09 G 15328372.71 15328372.84 15328372.98 0.0144 0.0020

Uranus 37255-10-19 12:00 G 15328460.87 15328461.00 15328461.13 0.0144 0.0003

Saturn 37255-12-07 14:09 G 15328509.97 15328510.09 15328510.23 0.0288 0.0202

Uranus 37256-01-15 15:36 G 15328549.02 15328549.15 15328549.29 0.0144 0.0025

Saturn 37256-03-05 14:53 G 15328598.93 15328599.12 15328599.31 0.0289 0.0005

Uranus 37256-04-12 19:12 G 15328637.18 15328637.30 15328637.44 0.0144 0.0047

Saturn 37256-06-02 15:07 G 15328688.01 15328688.13 15328688.26 0.0290 0.0213

Uranus 37256-07-09 23:02 G 15328725.35 15328725.46 15328725.58 0.0144 0.0069

Uranus 37256-10-06 02:53 G 15328813.52 15328813.62 15328813.73 0.0144 0.0091

Uranus 37257-01-02 06:43 G 15328901.70 15328901.78 15328901.86 0.0144 0.0113

Uranus 37257-03-31 10:19 G 15328989.90 15328989.93 15328989.98 0.0144 0.0136

Moon 37257-06-23 12:29 G 15329073.91 15329074.02 15329074.12 0.2647 0.0801

Earth 37257-06-23 12:57 G 15329073.93 15329074.04 15329074.14 0.2653 0.0731 *

Jupiter 37258-06-11 03:50 G 15329426.53 15329426.66 15329426.78 0.0520 0.0100

Jupiter 37258-09-08 08:38 G 15329515.82 15329515.86 15329515.90 0.0518 0.0493

Venus 37260-02-21 20:53 G 15330047.29 15330047.37 15330047.45 0.3685 0.2483

Earth 37260-12-23 19:41 G 15330353.17 15330353.32 15330353.47 0.2679 0.0954

Moon 37260-12-23 21:21 G 15330353.23 15330353.39 15330353.55 0.2676 0.0725 *

Mars 37261-10-25 14:53 G 15330659.09 15330659.12 15330659.15 0.1920 0.1814

Venus 37264-02-20 16:19 G 15331507.04 15331507.18 15331507.32 0.3685 0.0858

Jupiter 37264-08-05 22:05 G 15331674.24 15331674.42 15331674.60 0.0506 0.0109

Saturn 37269-01-15 18:29 G 15333298.19 15333298.27 15333298.35 0.0275 0.0211

Saturn 37269-04-14 05:02 G 15333386.59 15333386.71 15333386.83 0.0274 0.0089

Saturn 37269-07-11 15:36 G 15333475.02 15333475.15 15333475.28 0.0273 0.0033

Saturn 37269-10-08 01:55 G 15333563.48 15333563.58 15333563.69 0.0272 0.0153

Jupiter 37270-03-30 08:24 G 15333736.74 15333736.85 15333736.96 0.0521 0.0241

Moon 37270-06-26 05:17 G 15333824.62 15333824.72 15333824.83 0.2654 0.0442

Earth 37270-06-26 06:00 G 15333824.64 15333824.75 15333824.86 0.2652 0.0545 *

Jupiter 37270-06-27 13:12 G 15333825.96 15333826.05 15333826.15 0.0519 0.0351

Earth 37273-12-27 05:02 G 15335104.62 15335104.71 15335104.80 0.2679 0.2229

Moon 37273-12-27 06:00 G 15335104.69 15335104.75 15335104.82 0.2674 0.2433 *

Jupiter 37276-05-24 18:29 G 15335984.13 15335984.27 15335984.41 0.0505 0.0318

Neptune 37277-08-09 04:05 G 15336425.62 15336425.67 15336425.74 0.0089 0.0084

Neptune 37277-11-05 07:55 G 15336513.72 15336513.83 15336513.94 0.0089 0.0073

Neptune 37278-02-01 11:02 G 15336601.85 15336601.96 15336602.12 0.0089 0.0063

Neptune 37278-04-30 14:53 G 15336689.97 15336690.12 15336690.29 0.0089 0.0052

Neptune 37278-07-27 18:29 G 15336778.11 15336778.27 15336778.45 0.0089 0.0041

Neptune 37278-10-23 22:05 G 15336866.25 15336866.42 15336866.61 0.0089 0.0030

Neptune 37279-01-20 01:55 G 15336954.39 15336954.58 15336954.77 0.0089 0.0019

Neptune 37279-04-18 05:17 G 15337042.53 15337042.72 15337042.92 0.0089 0.0009

Neptune 37279-07-15 08:53 G 15337130.68 15337130.87 15337131.06 0.0089 0.0003

Neptune 37279-10-11 12:29 G 15337218.83 15337219.02 15337219.21 0.0089 0.0013

Mars 37279-10-12 04:19 G 15337219.52 15337219.68 15337219.85 0.1624 0.0335

Neptune 37280-01-07 15:50 G 15337306.98 15337307.16 15337307.35 0.0089 0.0024

Neptune 37280-04-04 19:12 G 15337395.13 15337395.30 15337395.49 0.0089 0.0035

Neptune 37280-07-01 22:48 G 15337483.29 15337483.45 15337483.62 0.0089 0.0045

Neptune 37280-09-28 02:09 G 15337571.45 15337571.59 15337571.75 0.0089 0.0056

Neptune 37280-12-25 05:45 G 15337659.62 15337659.74 15337659.87 0.0089 0.0066

Neptune 37281-03-23 09:07 G 15337747.80 15337747.88 15337747.99 0.0089 0.0077

Neptune 37281-06-19 12:43 G 15337836.00 15337836.03 15337836.07 0.0089 0.0087

Jupiter 37282-01-16 13:12 G 15338046.97 15338047.05 15338047.14 0.0521 0.0381

Jupiter 37282-04-15 18:00 G 15338136.14 15338136.25 15338136.37 0.0519 0.0212

Mars 37282-07-13 22:33 G 15338225.35 15338225.44 15338225.54 0.1909 0.1058

Moon 37283-06-28 22:33 G 15338575.37 15338575.44 15338575.52 0.2656 0.1810

Earth 37283-06-28 23:02 G 15338575.39 15338575.46 15338575.54 0.2652 0.1827 *

Pluto 37285-02-28 05:17 G 15339185.68 15339185.72 15339185.78 0.0069 0.0063

Saturn 37285-04-25 09:50 G 15339241.88 15339241.91 15339241.94 0.0287 0.0282

Pluto 37285-05-27 05:45 G 15339273.67 15339273.74 15339273.83 0.0069 0.0053

Saturn 37285-07-23 10:19 G 15339330.76 15339330.93 15339331.12 0.0288 0.0077

Pluto 37285-08-23 06:14 G 15339361.67 15339361.76 15339361.88 0.0069 0.0043

Saturn 37285-10-20 10:48 G 15339419.79 15339419.95 15339420.12 0.0290 0.0131

Pluto 37285-11-19 06:57 G 15339449.68 15339449.79 15339449.91 0.0069 0.0033

Pluto 37286-02-15 07:26 G 15339537.69 15339537.81 15339537.94 0.0070 0.0023

Pluto 37286-05-14 08:09 G 15339625.71 15339625.84 15339625.97 0.0070 0.0012

Pluto 37286-08-10 08:38 G 15339713.73 15339713.86 15339713.99 0.0070 0.0003

Pluto 37286-11-06 09:07 G 15339801.76 15339801.88 15339802.02 0.0070 0.0009

Pluto 37287-02-02 09:50 G 15339889.78 15339889.91 15339890.04 0.0070 0.0019

Pluto 37287-05-01 10:19 G 15339977.81 15339977.93 15339978.05 0.0070 0.0029

Pluto 37287-07-28 10:48 G 15340065.85 15340065.95 15340066.06 0.0070 0.0040

Pluto 37287-10-24 11:31 G 15340153.89 15340153.98 15340154.07 0.0070 0.0051

Pluto 37288-01-20 11:45 G 15340241.94 15340241.99 15340242.07 0.0070 0.0062

Jupiter 37288-06-11 03:21 G 15340384.50 15340384.64 15340384.79 0.0507 0.0314

Mars 37289-03-03 06:29 G 15340649.64 15340649.77 15340649.91 0.1620 0.0983

Moon 37290-06-22 00:29 G 15341125.44 15341125.52 15341125.60 0.2646 0.1804

Earth 37290-06-22 00:29 G 15341125.44 15341125.52 15341125.61 0.2653 0.1737 *

Mars 37291-12-04 06:43 G 15341655.67 15341655.78 15341655.89 0.1915 0.0302

Jupiter 37294-02-01 22:33 G 15342446.31 15342446.44 15342446.57 0.0519 0.0064

Uranus 37294-12-13 12:57 G 15342760.95 15342761.04 15342761.14 0.0135 0.0116

Uranus 37295-03-11 20:09 G 15342849.20 15342849.34 15342849.48 0.0135 0.0090

Uranus 37295-06-08 02:53 G 15342937.47 15342937.62 15342937.80 0.0135 0.0065

Uranus 37295-09-04 10:05 G 15343025.75 15343025.92 15343026.11 0.0135 0.0039

Uranus 37295-12-01 17:17 G 15343114.03 15343114.22 15343114.41 0.0135 0.0013

Uranus 37296-02-28 00:14 G 15343202.32 15343202.51 15343202.70 0.0135 0.0012

Uranus 37296-05-26 06:57 G 15343290.62 15343290.79 15343290.98 0.0135 0.0038

Uranus 37296-08-22 13:55 G 15343378.92 15343379.08 15343379.25 0.0135 0.0062

Uranus 37296-11-18 20:38 G 15343467.23 15343467.36 15343467.51 0.0135 0.0087

Uranus 37297-02-15 03:36 G 15343555.55 15343555.65 15343555.75 0.0134 0.0112

Saturn 37298-06-04 20:09 G 15344030.30 15344030.34 15344030.39 0.0276 0.0258

Saturn 37298-09-01 06:43 G 15344118.67 15344118.78 15344118.90 0.0275 0.0135

Saturn 37298-11-28 17:17 G 15344207.09 15344207.22 15344207.35 0.0274 0.0013

Saturn 37299-02-25 03:50 G 15344295.54 15344295.66 15344295.78 0.0273 0.0109

Saturn 37299-05-24 14:24 G 15344384.03 15344384.10 15344384.17 0.0272 0.0230

Venus 37300-02-13 17:31 G 15344649.16 15344649.23 15344649.30 0.3687 0.2767

Jupiter 37300-03-31 00:14 G 15344694.33 15344694.51 15344694.69 0.0507 0.0109

Mars 37301-04-26 14:38 G 15345086.06 15345086.11 15345086.17 0.1920 0.1682

Moon 37303-06-25 17:02 G 15345876.11 15345876.21 15345876.32 0.2648 0.0522

Earth 37303-06-25 17:31 G 15345876.13 15345876.23 15345876.34 0.2652 0.0481 *

Venus 37305-08-30 09:36 G 15346672.80 15346672.90 15346673.01 0.3686 0.0834

Jupiter 37305-11-22 03:07 G 15346756.51 15346756.63 15346756.76 0.0519 0.0081

Jupiter 37306-02-19 07:55 G 15346845.81 15346845.83 15346845.85 0.0517 0.0509

Earth 37306-12-26 02:38 G 15347155.45 15347155.61 15347155.77 0.2679 0.0361

Moon 37306-12-26 04:19 G 15347155.51 15347155.68 15347155.84 0.2675 0.0201 *

Venus 37311-03-16 02:09 G 15348696.49 15348696.59 15348696.69 0.3686 0.1185

Jupiter 37312-01-17 21:07 G 15349004.20 15349004.38 15349004.56 0.0506 0.0094

Saturn 37314-12-11 07:55 G 15350062.67 15350062.83 15350063.00 0.0288 0.0140

Saturn 37315-03-10 08:24 G 15350151.67 15350151.85 15350152.03 0.0289 0.0067

Venus 37315-03-14 12:14 G 15350155.90 15350156.01 15350156.12 0.3684 0.2426

Saturn 37315-06-07 08:38 G 15350240.81 15350240.86 15350240.92 0.0290 0.0273

Moon 37316-06-27 10:05 G 15350626.81 15350626.92 15350627.02 0.2654 0.0708

Earth 37316-06-27 10:48 G 15350626.84 15350626.95 15350627.05 0.2652 0.0807 *

Venus 37316-09-28 18:29 G 15350720.22 15350720.27 15350720.32 0.3685 0.3219

Jupiter 37317-09-10 07:26 G 15351066.70 15351066.81 15351066.92 0.0520 0.0232

Jupiter 37317-12-08 12:14 G 15351155.92 15351156.01 15351156.10 0.0518 0.0359

Mars 37319-04-13 05:02 G 15351646.55 15351646.71 15351646.87 0.1624 0.0533

Venus 37320-09-27 17:17 G 15352180.11 15352180.22 15352180.33 0.3685 0.2449

Mars 37322-01-12 22:48 G 15352652.36 15352652.45 15352652.54 0.1909 0.1230

Jupiter 37323-11-05 18:00 G 15353314.10 15353314.25 15353314.40 0.0506 0.0298

Saturn 37328-01-20 08:53 G 15354850.77 15354850.87 15354850.97 0.0275 0.0174

Saturn 37328-04-17 19:26 G 15354939.18 15354939.31 15354939.44 0.0274 0.0052

Saturn 37328-07-15 06:00 G 15355027.62 15355027.75 15355027.88 0.0273 0.0070

Mars 37328-09-02 07:12 G 15355076.65 15355076.80 15355076.94 0.1620 0.0782

Saturn 37328-10-11 16:33 G 15355116.10 15355116.19 15355116.28 0.0272 0.0191

Jupiter 37329-06-29 12:00 G 15355376.92 15355377.00 15355377.09 0.0521 0.0376

Moon 37329-06-30 03:36 G 15355377.58 15355377.65 15355377.72 0.2657 0.2015

Earth 37329-06-30 03:50 G 15355377.60 15355377.66 15355377.73 0.2652 0.2086 *

Jupiter 37329-09-26 16:48 G 15355466.09 15355466.20 15355466.32 0.0519 0.0215

Mars 37331-06-05 06:43 G 15356082.66 15356082.78 15356082.89 0.1915 0.0165

Jupiter 37335-11-23 02:09 G 15357714.45 15357714.59 15357714.73 0.0507 0.0325

Moon 37336-06-23 05:02 G 15357927.62 15357927.71 15357927.80 0.2646 0.1449

Earth 37336-06-23 05:17 G 15357927.63 15357927.72 15357927.81 0.2653 0.1478 *

Uranus 37338-03-02 18:29 G 15358545.24 15358545.27 15358545.30 0.0143 0.0138

Uranus 37338-05-29 22:05 G 15358633.35 15358633.42 15358633.49 0.0143 0.0117

Uranus 37338-08-26 01:41 G 15358721.47 15358721.57 15358721.67 0.0143 0.0096

Uranus 37338-11-22 05:02 G 15358809.61 15358809.71 15358809.83 0.0143 0.0076

Uranus 37339-02-18 08:53 G 15358897.75 15358897.87 15358897.99 0.0143 0.0054

Uranus 37339-05-17 12:29 G 15358985.89 15358986.02 15358986.15 0.0143 0.0032

Uranus 37339-08-13 16:05 G 15359074.04 15359074.17 15359074.31 0.0144 0.0012

Uranus 37339-11-09 19:55 G 15359162.20 15359162.33 15359162.46 0.0144 0.0011

Uranus 37340-02-05 23:31 G 15359250.35 15359250.48 15359250.61 0.0144 0.0033

Uranus 37340-05-04 03:21 G 15359338.51 15359338.64 15359338.76 0.0144 0.0055

Uranus 37340-07-31 06:57 G 15359426.68 15359426.79 15359426.91 0.0144 0.0077

Mars 37340-10-25 14:53 G 15359513.05 15359513.12 15359513.19 0.1920 0.1508

Uranus 37340-10-27 10:48 G 15359514.86 15359514.95 15359515.05 0.0144 0.0099

Uranus 37341-01-23 14:24 G 15359603.04 15359603.10 15359603.18 0.0144 0.0122

Jupiter 37341-04-17 16:48 G 15359687.19 15359687.20 15359687.22 0.0521 0.0516

Jupiter 37341-07-15 21:36 G 15359776.27 15359776.40 15359776.53 0.0520 0.0074

Saturn 37344-04-29 04:19 G 15360794.56 15360794.68 15360794.80 0.0287 0.0215

Saturn 37344-07-27 04:48 G 15360883.52 15360883.70 15360883.89 0.0289 0.0009

Saturn 37344-10-24 05:02 G 15360972.58 15360972.71 15360972.85 0.0290 0.0198

Jupiter 37347-09-10 23:02 G 15362024.29 15362024.46 15362024.64 0.0507 0.0125

Moon 37349-06-25 21:50 G 15362678.30 15362678.41 15362678.51 0.2650 0.0346

Earth 37349-06-25 22:19 G 15362678.32 15362678.43 15362678.54 0.2652 0.0213 *

Earth 37352-12-26 09:36 G 15363957.74 15363957.90 15363958.06 0.2679 0.0245

Moon 37352-12-26 11:17 G 15363957.80 15363957.97 15363958.13 0.2675 0.0513 *

Jupiter 37353-05-04 02:09 G 15364086.47 15364086.59 15364086.72 0.0519 0.0071

Venus 37356-09-20 15:07 G 15365322.04 15365322.13 15365322.22 0.3687 0.2076

Saturn 37357-06-08 10:48 G 15365582.88 15365582.95 15365583.03 0.0276 0.0218

Saturn 37357-09-04 21:21 G 15365671.27 15365671.39 15365671.52 0.0275 0.0095

Neptune 37357-11-30 14:53 G 15365758.09 15365758.12 15365758.16 0.0089 0.0084

Saturn 37357-12-02 07:55 G 15365759.70 15365759.83 15365759.96 0.0274 0.0029

Neptune 37358-02-26 16:05 G 15365846.11 15365846.17 15365846.24 0.0089 0.0077

Saturn 37358-02-28 18:29 G 15365848.16 15365848.27 15365848.38 0.0273 0.0150

Neptune 37358-05-25 17:17 G 15365934.15 15365934.22 15365934.31 0.0089 0.0070

Saturn 37358-05-28 05:02 G 15365936.71 15365936.71 15365936.72 0.0272 0.0271

Neptune 37358-08-21 18:43 G 15366022.19 15366022.28 15366022.38 0.0089 0.0062

Mars 37358-10-12 05:45 G 15366073.59 15366073.74 15366073.88 0.1624 0.0737

Neptune 37358-11-17 20:09 G 15366110.24 15366110.34 15366110.44 0.0089 0.0055

Neptune 37359-02-13 21:21 G 15366198.28 15366198.39 15366198.51 0.0089 0.0048

Neptune 37359-05-12 22:33 G 15366286.33 15366286.44 15366286.57 0.0089 0.0041

Jupiter 37359-06-29 19:26 G 15366334.13 15366334.31 15366334.49 0.0507 0.0088

Neptune 37359-08-09 00:00 G 15366374.38 15366374.50 15366374.63 0.0089 0.0033

Neptune 37359-11-05 01:26 G 15366462.43 15366462.56 15366462.69 0.0089 0.0026

Neptune 37360-02-01 02:38 G 15366550.48 15366550.61 15366550.74 0.0088 0.0019

Neptune 37360-04-29 04:05 G 15366638.54 15366638.67 15366638.80 0.0088 0.0011

Neptune 37360-07-26 05:17 G 15366726.59 15366726.72 15366726.86 0.0088 0.0004

Neptune 37360-10-22 06:43 G 15366814.64 15366814.78 15366814.91 0.0088 0.0004

Neptune 37361-01-18 07:55 G 15366902.70 15366902.83 15366902.97 0.0088 0.0011

Neptune 37361-04-16 09:21 G 15366990.76 15366990.89 15366991.02 0.0088 0.0018

Neptune 37361-07-13 10:33 G 15367078.82 15367078.94 15367079.07 0.0088 0.0026

Mars 37361-07-13 22:33 G 15367079.36 15367079.44 15367079.52 0.1909 0.1365

Neptune 37361-10-09 11:45 G 15367166.87 15367166.99 15367167.12 0.0088 0.0033

Neptune 37362-01-05 13:12 G 15367254.94 15367255.05 15367255.17 0.0088 0.0041

Neptune 37362-04-03 14:38 G 15367343.00 15367343.11 15367343.22 0.0088 0.0048

Venus 37362-04-06 07:26 G 15367345.70 15367345.81 15367345.91 0.3686 0.0192

Moon 37362-06-28 14:53 G 15367429.02 15367429.12 15367429.22 0.2654 0.0986

Earth 37362-06-28 15:21 G 15367429.05 15367429.14 15367429.24 0.2652 0.1071 *

Neptune 37362-06-30 15:50 G 15367431.06 15367431.16 15367431.27 0.0088 0.0055

Neptune 37362-09-26 17:17 G 15367519.13 15367519.22 15367519.32 0.0088 0.0063

Neptune 37362-12-23 18:29 G 15367607.20 15367607.27 15367607.36 0.0088 0.0070

Neptune 37363-03-21 19:55 G 15367695.27 15367695.33 15367695.40 0.0088 0.0078

Neptune 37363-06-17 21:07 G 15367783.36 15367783.38 15367783.43 0.0088 0.0085

Jupiter 37365-02-20 06:43 G 15368396.67 15368396.78 15368396.90 0.0520 0.0216

Jupiter 37365-05-20 11:31 G 15368485.89 15368485.98 15368486.07 0.0518 0.0373

Venus 37367-10-20 23:45 G 15369369.40 15369369.49 15369369.58 0.3685 0.1903

Mars 37368-03-03 07:41 G 15369503.67 15369503.82 15369503.98 0.1620 0.0586

Earth 37369-06-21 17:02 G 15369979.17 15369979.21 15369979.24 0.2653 0.2477

Moon 37369-06-21 17:02 G 15369979.17 15369979.21 15369979.26 0.2647 0.2407 *

Mars 37370-12-04 06:43 G 15370509.66 15370509.78 15370509.90 0.1915 0.0017

Pluto 37371-04-06 00:43 G 15370632.43 15370632.53 15370632.66 0.0075 0.0060

Jupiter 37371-04-17 16:19 G 15370644.03 15370644.18 15370644.33 0.0506 0.0291

Pluto 37371-07-03 03:21 G 15370720.49 15370720.64 15370720.82 0.0075 0.0041

Pluto 37371-09-29 06:14 G 15370808.57 15370808.76 15370808.95 0.0075 0.0021

Venus 37371-10-19 13:12 G 15370828.91 15370829.05 15370829.20 0.3685 0.0793

Pluto 37371-12-26 08:53 G 15370896.67 15370896.87 15370897.07 0.0075 0.0002

Pluto 37372-03-23 11:17 G 15370984.79 15370984.97 15370985.17 0.0074 0.0018

Pluto 37372-06-19 13:55 G 15371072.92 15371073.08 15371073.26 0.0074 0.0037

Pluto 37372-09-15 16:19 G 15371161.07 15371161.18 15371161.33 0.0074 0.0056

Saturn 37373-09-16 02:24 G 15371526.55 15371526.60 15371526.67 0.0287 0.0272

Saturn 37373-12-14 03:07 G 15371615.45 15371615.63 15371615.81 0.0288 0.0066

Saturn 37374-03-13 03:21 G 15371704.49 15371704.64 15371704.81 0.0289 0.0141

Moon 37375-07-01 08:24 G 15372179.80 15372179.85 15372179.90 0.2658 0.2330

Earth 37375-07-01 08:38 G 15372179.81 15372179.86 15372179.91 0.2652 0.2345 *

Jupiter 37376-12-09 11:02 G 15372706.87 15372706.96 15372707.05 0.0520 0.0368

Jupiter 37377-03-08 15:36 G 15372796.04 15372796.15 15372796.27 0.0519 0.0222

Uranus 37378-10-07 13:12 G 15373374.05 15373374.05 15373374.09 0.0135 0.0134

Uranus 37379-01-03 20:53 G 15373462.25 15373462.37 15373462.48 0.0135 0.0108

Uranus 37379-04-02 03:36 G 15373550.51 15373550.65 15373550.82 0.0135 0.0082

Uranus 37379-06-29 10:48 G 15373638.79 15373638.95 15373639.13 0.0135 0.0056

Uranus 37379-09-25 18:00 G 15373727.07 15373727.25 15373727.44 0.0135 0.0030

Uranus 37379-12-23 01:12 G 15373815.36 15373815.55 15373815.74 0.0135 0.0005

Uranus 37380-03-20 08:09 G 15373903.65 15373903.84 15373904.02 0.0135 0.0021

Mars 37380-04-25 14:53 G 15373940.04 15373940.12 15373940.20 0.1920 0.1352

Uranus 37380-06-16 14:53 G 15373991.95 15373992.12 15373992.30 0.0135 0.0047

Uranus 37380-09-12 21:36 G 15374080.25 15374080.40 15374080.57 0.0135 0.0072

Uranus 37380-12-10 04:33 G 15374168.57 15374168.69 15374168.83 0.0135 0.0096

Uranus 37381-03-08 11:31 G 15374256.90 15374256.98 15374257.06 0.0134 0.0121

Moon 37382-06-24 09:50 G 15374729.81 15374729.91 15374730.00 0.2646 0.1312

Earth 37382-06-24 10:05 G 15374729.82 15374729.92 15374730.01 0.2653 0.1218 *

Jupiter 37383-02-03 12:57 G 15374954.01 15374954.04 15374954.08 0.0505 0.0495

Jupiter 37383-05-05 00:57 G 15375044.41 15375044.54 15375044.68 0.0507 0.0340

Earth 37385-12-24 06:57 G 15376008.72 15376008.79 15376008.87 0.2679 0.2373

Moon 37385-12-24 08:53 G 15376008.76 15376008.87 15376008.97 0.2677 0.2020 *

Saturn 37386-10-26 13:12 G 15376315.01 15376315.05 15376315.10 0.0276 0.0255

Saturn 37387-01-22 23:45 G 15376403.38 15376403.49 15376403.61 0.0275 0.0132

Saturn 37387-04-21 10:19 G 15376491.80 15376491.93 15376492.06 0.0274 0.0010

Saturn 37387-07-18 20:53 G 15376580.25 15376580.37 15376580.49 0.0273 0.0113

Saturn 37387-10-15 07:26 G 15376668.75 15376668.81 15376668.88 0.0272 0.0235

Jupiter 37388-09-27 15:36 G 15377017.13 15377017.15 15377017.16 0.0521 0.0514

Jupiter 37388-12-25 20:09 G 15377106.22 15377106.34 15377106.47 0.0519 0.0075

Jupiter 37395-02-20 21:21 G 15379354.21 15379354.39 15379354.57 0.0506 0.0129

Moon 37395-06-27 02:24 G 15379480.49 15379480.60 15379480.71 0.2651 0.0034

Earth 37395-06-27 03:07 G 15379480.52 15379480.63 15379480.74 0.2652 0.0050 *

Mars 37398-04-12 06:14 G 15380500.63 15380500.76 15380500.90 0.1624 0.0940

Earth 37398-12-27 16:33 G 15380760.04 15380760.19 15380760.35 0.2679 0.0847

Moon 37398-12-27 18:00 G 15380760.10 15380760.25 15380760.41 0.2675 0.0943 *

Jupiter 37400-10-15 00:57 G 15381416.41 15381416.54 15381416.66 0.0520 0.0067

Mars 37401-01-12 22:33 G 15381506.38 15381506.44 15381506.51 0.1909 0.1535

Saturn 37403-05-04 00:14 G 15382347.35 15382347.51 15382347.68 0.0288 0.0134

Saturn 37403-08-01 00:43 G 15382436.35 15382436.53 15382436.71 0.0289 0.0073

Saturn 37403-10-29 00:43 G 15382525.50 15382525.53 15382525.59 0.0290 0.0279

Jupiter 37406-12-10 18:14 G 15383664.07 15383664.26 15383664.44 0.0506 0.0076

Mars 37407-09-03 08:24 G 15383930.69 15383930.85 15383931.02 0.1620 0.0374

Venus 37407-10-13 20:38 G 15383971.31 15383971.36 15383971.40 0.3687 0.3322

Moon 37408-06-29 19:41 G 15384231.22 15384231.32 15384231.41 0.2655 0.1216

Earth 37408-06-29 20:09 G 15384231.25 15384231.34 15384231.44 0.2652 0.1326 *

Mars 37410-06-05 06:43 G 15384936.66 15384936.78 15384936.89 0.1914 0.0178

Jupiter 37412-08-03 05:31 G 15385726.62 15385726.73 15385726.85 0.0520 0.0211

Jupiter 37412-10-31 10:19 G 15385815.84 15385815.93 15385816.02 0.0518 0.0379

Venus 37413-04-28 12:43 G 15385994.93 15385995.03 15385995.12 0.3687 0.1390

Moon 37415-06-23 21:50 G 15386781.35 15386781.41 15386781.46 0.2646 0.2243

Earth 37415-06-23 21:50 G 15386781.35 15386781.41 15386781.46 0.2653 0.2223 *

Saturn 37416-06-12 01:55 G 15387135.48 15387135.58 15387135.68 0.0276 0.0172

Saturn 37416-09-08 12:29 G 15387223.89 15387224.02 15387224.15 0.0275 0.0049

Saturn 37416-12-05 23:02 G 15387312.34 15387312.46 15387312.59 0.0274 0.0074

Saturn 37417-03-04 09:36 G 15387400.81 15387400.90 15387400.99 0.0273 0.0196

Jupiter 37418-09-28 14:09 G 15387973.94 15387974.09 15387974.24 0.0506 0.0293

Venus 37418-11-12 05:02 G 15388018.60 15388018.71 15388018.81 0.3686 0.0608

Mars 37419-10-26 14:38 G 15388367.02 15388367.11 15388367.20 0.1920 0.1207

Moon 37421-07-02 13:12 G 15388982.03 15388982.05 15388982.07 0.2659 0.2602

Earth 37421-07-02 13:26 G 15388982.04 15388982.06 15388982.07 0.2652 0.2608 *

Uranus 37422-03-24 02:38 G 15389246.56 15389246.61 15389246.67 0.0143 0.0128

Uranus 37422-06-20 06:14 G 15389334.68 15389334.76 15389334.85 0.0143 0.0107

Uranus 37422-09-16 09:50 G 15389422.81 15389422.91 15389423.02 0.0143 0.0086

Uranus 37422-12-13 13:26 G 15389510.95 15389511.06 15389511.18 0.0143 0.0065

Uranus 37423-03-11 17:02 G 15389599.09 15389599.21 15389599.34 0.0143 0.0044

Uranus 37423-06-07 20:53 G 15389687.23 15389687.37 15389687.50 0.0143 0.0022

Uranus 37423-09-04 00:29 G 15389775.39 15389775.52 15389775.65 0.0144 0.0001

Uranus 37423-12-01 04:05 G 15389863.54 15389863.67 15389863.81 0.0144 0.0022

Uranus 37424-02-27 07:55 G 15389951.70 15389951.83 15389951.96 0.0144 0.0043

Jupiter 37424-05-22 10:05 G 15390036.83 15390036.92 15390037.01 0.0520 0.0356

Uranus 37424-05-25 11:31 G 15390039.87 15390039.98 15390040.10 0.0144 0.0066

Venus 37424-05-27 21:21 G 15390042.32 15390042.39 15390042.46 0.3685 0.2623

Jupiter 37424-08-19 14:53 G 15390126.00 15390126.12 15390126.23 0.0518 0.0233

Uranus 37424-08-21 15:21 G 15390128.04 15390128.14 15390128.25 0.0144 0.0088

Uranus 37424-11-17 18:57 G 15390216.21 15390216.29 15390216.38 0.0144 0.0110

Uranus 37425-02-13 23:02 G 15390304.41 15390304.46 15390304.51 0.0144 0.0132

Venus 37428-05-26 14:24 G 15391501.96 15391502.10 15391502.24 0.3685 0.0854

Moon 37428-06-25 14:24 G 15391532.00 15391532.10 15391532.20 0.2647 0.0962

Earth 37428-06-25 14:38 G 15391532.01 15391532.11 15391532.21 0.2653 0.0968 *

Jupiter 37430-07-17 10:48 G 15392283.92 15392283.95 15392283.98 0.0506 0.0498

Jupiter 37430-10-15 23:02 G 15392374.32 15392374.46 15392374.60 0.0507 0.0339

Earth 37431-12-26 13:55 G 15392810.96 15392811.08 15392811.20 0.2679 0.1772

Moon 37431-12-26 15:50 G 15392811.03 15392811.16 15392811.29 0.2677 0.1644 *

Saturn 37432-09-19 23:17 G 15393079.33 15393079.47 15393079.61 0.0287 0.0185

Saturn 37432-12-17 23:45 G 15393168.30 15393168.49 15393168.68 0.0288 0.0021

Saturn 37433-03-17 00:00 G 15393257.39 15393257.50 15393257.62 0.0289 0.0227

Jupiter 37436-03-10 14:09 G 15394347.07 15394347.09 15394347.12 0.0521 0.0511

Jupiter 37436-06-07 18:57 G 15394436.16 15394436.29 15394436.41 0.0519 0.0078

Mars 37437-10-12 06:57 G 15394927.67 15394927.79 15394927.91 0.1624 0.1144

Mars 37440-07-13 22:33 G 15395933.40 15395933.44 15395933.49 0.1909 0.1706

Moon 37441-06-28 07:12 G 15396282.69 15396282.80 15396282.91 0.2652 0.0156

Earth 37441-06-28 07:55 G 15396282.72 15396282.83 15396282.93 0.2652 0.0321 *

Neptune 37442-05-08 00:43 G 15396596.49 15396596.53 15396596.62 0.0089 0.0084

Jupiter 37442-08-03 19:55 G 15396684.15 15396684.33 15396684.51 0.0507 0.0135

Neptune 37442-08-04 04:33 G 15396684.60 15396684.69 15396684.82 0.0089 0.0073

Neptune 37442-10-31 08:09 G 15396772.72 15396772.84 15396773.00 0.0089 0.0062

Neptune 37443-01-27 12:00 G 15396860.85 15396861.00 15396861.17 0.0089 0.0051

Neptune 37443-04-25 15:36 G 15396948.98 15396949.15 15396949.33 0.0089 0.0040

Neptune 37443-07-22 19:12 G 15397037.12 15397037.30 15397037.49 0.0089 0.0029

Neptune 37443-10-18 22:48 G 15397125.27 15397125.45 15397125.64 0.0089 0.0018

Neptune 37444-01-15 02:24 G 15397213.41 15397213.60 15397213.79 0.0089 0.0008

Neptune 37444-04-12 06:00 G 15397301.56 15397301.75 15397301.94 0.0089 0.0003

Neptune 37444-07-09 09:36 G 15397389.71 15397389.90 15397390.09 0.0089 0.0014

Neptune 37444-10-05 12:57 G 15397477.86 15397478.04 15397478.23 0.0089 0.0025

Earth 37444-12-28 23:31 G 15397562.34 15397562.48 15397562.61 0.2679 0.1431

Moon 37444-12-29 00:29 G 15397562.39 15397562.52 15397562.65 0.2674 0.1656 *

Neptune 37445-01-01 16:19 G 15397566.01 15397566.18 15397566.37 0.0089 0.0036

Neptune 37445-03-30 19:55 G 15397654.17 15397654.33 15397654.50 0.0089 0.0046

Neptune 37445-06-26 23:17 G 15397742.34 15397742.47 15397742.63 0.0089 0.0057

Neptune 37445-09-23 03:07 G 15397830.50 15397830.63 15397830.75 0.0089 0.0067

Saturn 37445-10-30 04:33 G 15397867.61 15397867.69 15397867.78 0.0276 0.0206

Neptune 37445-12-20 06:14 G 15397918.68 15397918.76 15397918.86 0.0089 0.0078

Saturn 37446-01-26 15:21 G 15397956.01 15397956.14 15397956.26 0.0275 0.0082

Neptune 37446-03-18 09:36 G 15398006.90 15398006.90 15398006.93 0.0089 0.0089

Saturn 37446-04-25 01:55 G 15398044.45 15398044.58 15398044.71 0.0274 0.0041

Saturn 37446-07-22 12:29 G 15398132.91 15398133.02 15398133.12 0.0273 0.0163

Mars 37447-03-04 09:07 G 15398357.72 15398357.88 15398358.05 0.1620 0.0167

Jupiter 37448-03-26 23:17 G 15398746.35 15398746.47 15398746.60 0.0520 0.0070

Mars 37449-12-04 06:43 G 15399363.66 15399363.78 15399363.89 0.1914 0.0329

Jupiter 37454-05-22 16:05 G 15400993.98 15400994.17 15400994.35 0.0506 0.0078

Moon 37454-07-01 00:29 G 15401033.43 15401033.52 15401033.61 0.2656 0.1565

Earth 37454-07-01 00:57 G 15401033.45 15401033.54 15401033.63 0.2652 0.1584 *

Mars 37456-07-24 11:17 G 15401787.91 15401787.97 15401788.03 0.1616 0.1484

Mars 37459-04-26 14:38 G 15402794.02 15402794.11 15402794.21 0.1920 0.1044

Jupiter 37460-01-14 04:05 G 15403056.55 15403056.67 15403056.78 0.0520 0.0214

Jupiter 37460-04-12 08:38 G 15403145.78 15403145.86 15403145.95 0.0518 0.0379

Moon 37461-06-24 02:24 G 15403583.53 15403583.60 15403583.67 0.2646 0.1936

Earth 37461-06-24 02:24 G 15403583.53 15403583.60 15403583.67 0.2653 0.1965 *

Saturn 37462-02-06 21:36 G 15403811.31 15403811.40 15403811.50 0.0287 0.0244

Saturn 37462-05-06 22:05 G 15403900.24 15403900.42 15403900.61 0.0288 0.0038

Saturn 37462-08-03 22:19 G 15403989.28 15403989.43 15403989.58 0.0289 0.0168

Uranus 37462-10-28 21:36 G 15404075.34 15404075.40 15404075.50 0.0135 0.0124

Uranus 37463-01-25 05:17 G 15404163.59 15404163.72 15404163.85 0.0135 0.0097

Uranus 37463-04-23 12:00 G 15404251.85 15404252.00 15404252.18 0.0135 0.0071

Uranus 37463-07-20 19:12 G 15404340.13 15404340.30 15404340.49 0.0135 0.0045

Uranus 37463-10-17 02:24 G 15404428.42 15404428.60 15404428.79 0.0135 0.0019

Uranus 37464-01-13 09:36 G 15404516.71 15404516.90 15404517.09 0.0135 0.0007

Uranus 37464-04-10 16:33 G 15404605.00 15404605.19 15404605.37 0.0135 0.0032

Venus 37464-05-19 18:00 G 15404644.18 15404644.25 15404644.32 0.3687 0.2642

Uranus 37464-07-07 23:17 G 15404693.31 15404693.47 15404693.65 0.0135 0.0057

Uranus 37464-10-04 06:00 G 15404781.61 15404781.75 15404781.91 0.0135 0.0083

Uranus 37464-12-31 12:43 G 15404869.94 15404870.03 15404870.16 0.0134 0.0108

Uranus 37465-03-29 19:41 G 15404958.30 15404958.32 15404958.36 0.0134 0.0132

Jupiter 37466-03-10 12:29 G 15405303.87 15405304.02 15405304.17 0.0506 0.0286

Venus 37469-12-03 10:19 G 15406667.82 15406667.93 15406668.03 0.3686 0.0689

Jupiter 37471-11-02 08:38 G 15407366.77 15407366.86 15407366.95 0.0520 0.0356

Jupiter 37472-01-30 13:26 G 15407455.95 15407456.06 15407456.17 0.0518 0.0233

Moon 37474-06-26 18:57 G 15408334.19 15408334.29 15408334.39 0.2649 0.0810

Earth 37474-06-26 19:26 G 15408334.21 15408334.31 15408334.42 0.2652 0.0703 *

Saturn 37475-03-19 07:12 G 15408599.74 15408599.80 15408599.86 0.0277 0.0244

Saturn 37475-06-15 17:45 G 15408688.12 15408688.24 15408688.36 0.0276 0.0120

Venus 37475-06-19 02:38 G 15408691.51 15408691.61 15408691.71 0.3686 0.1320

Saturn 37475-09-12 04:19 G 15408776.55 15408776.68 15408776.81 0.0275 0.0004

Saturn 37475-12-09 14:53 G 15408865.00 15408865.12 15408865.24 0.0273 0.0127

Saturn 37476-03-07 01:26 G 15408953.51 15408953.56 15408953.61 0.0272 0.0249

Mars 37477-04-12 07:26 G 15409354.72 15409354.81 15409354.90 0.1624 0.1347

Earth 37477-12-26 20:53 G 15409613.22 15409613.37 15409613.52 0.2679 0.1179

Moon 37477-12-26 22:48 G 15409613.29 15409613.45 15409613.60 0.2677 0.0849 *

Jupiter 37478-03-27 20:09 G 15409704.21 15409704.34 15409704.48 0.0508 0.0331

Venus 37479-06-17 10:05 G 15410150.82 15410150.92 15410151.03 0.3684 0.2479

Mars 37480-01-12 22:33 G 15410360.41 15410360.44 15410360.47 0.1909 0.1845

Venus 37481-01-01 18:57 G 15410715.25 15410715.29 15410715.33 0.3685 0.3360

Jupiter 37483-08-21 13:12 G 15411677.02 15411677.05 15411677.08 0.0521 0.0501

Jupiter 37483-11-18 17:45 G 15411766.12 15411766.24 15411766.37 0.0519 0.0088

Venus 37484-12-31 15:21 G 15412175.04 15412175.14 15412175.25 0.3685 0.2469

Mars 37486-09-02 09:36 G 15412784.74 15412784.90 15412785.07 0.1620 0.0031

Moon 37487-06-29 12:00 G 15413084.89 15413085.00 15413085.10 0.2652 0.0541

Earth 37487-06-29 12:29 G 15413084.92 15413085.02 15413085.13 0.2652 0.0575 *

Mars 37489-06-04 06:43 G 15413790.66 15413790.78 15413790.89 0.1914 0.0490

Jupiter 37490-01-13 17:02 G 15414014.03 15414014.21 15414014.39 0.0507 0.0126

Earth 37490-12-30 06:29 G 15414364.66 15414364.77 15414364.87 0.2679 0.2025

Moon 37490-12-30 07:12 G 15414364.69 15414364.80 15414364.91 0.2673 0.1999 *

Saturn 37491-09-23 21:36 G 15414632.22 15414632.40 15414632.58 0.0287 0.0085

Saturn 37491-12-21 22:05 G 15414721.25 15414721.42 15414721.59 0.0288 0.0121

Jupiter 37495-09-06 21:50 G 15416076.28 15416076.41 15416076.54 0.0519 0.0070

Mars 37496-01-23 11:45 G 15416214.90 15416214.99 15416215.09 0.1617 0.1280

Mars 37498-10-25 14:53 G 15417221.01 15417221.12 15417221.22 0.1919 0.0880

Moon 37500-07-02 05:17 G 15417835.64 15417835.72 15417835.80 0.2658 0.1734

Earth 37500-07-02 05:45 G 15417835.66 15417835.74 15417835.81 0.2652 0.1847 *

Jupiter 37501-11-02 13:55 G 15418323.89 15418324.08 15418324.26 0.0506 0.0079

Saturn 37504-08-06 10:19 G 15419331.91 15419331.93 15419331.94 0.0277 0.0274

Saturn 37504-11-02 20:53 G 15419420.26 15419420.37 15419420.48 0.0276 0.0150

Saturn 37505-01-30 07:26 G 15419508.68 15419508.81 15419508.94 0.0275 0.0026

Saturn 37505-04-28 18:00 G 15419597.13 15419597.25 15419597.37 0.0274 0.0097

Saturn 37505-07-26 04:33 G 15419685.61 15419685.69 15419685.77 0.0273 0.0219

Uranus 37506-01-16 06:57 G 15419859.78 15419859.79 15419859.82 0.0143 0.0141

Uranus 37506-04-14 10:33 G 15419947.88 15419947.94 15419948.02 0.0143 0.0120

Uranus 37506-07-11 14:09 G 15420036.00 15420036.09 15420036.19 0.0143 0.0099

Uranus 37506-10-07 18:00 G 15420124.14 15420124.25 15420124.36 0.0143 0.0078

Uranus 37507-01-03 21:21 G 15420212.27 15420212.39 15420212.52 0.0143 0.0057

Uranus 37507-04-02 01:12 G 15420300.42 15420300.55 15420300.68 0.0143 0.0035

Moon 37507-06-26 07:12 G 15420385.71 15420385.80 15420385.88 0.2646 0.1722

Earth 37507-06-26 07:12 G 15420385.72 15420385.80 15420385.88 0.2653 0.1709 *

Jupiter 37507-06-27 02:09 G 15420386.48 15420386.59 15420386.71 0.0520 0.0220

Uranus 37507-06-29 04:48 G 15420388.57 15420388.70 15420388.83 0.0143 0.0013

Jupiter 37507-09-24 06:57 G 15420475.70 15420475.79 15420475.88 0.0518 0.0371

Uranus 37507-09-25 08:24 G 15420476.72 15420476.85 15420476.99 0.0144 0.0009

Uranus 37507-12-22 12:14 G 15420564.88 15420565.01 15420565.14 0.0144 0.0031

Uranus 37508-03-19 15:50 G 15420653.04 15420653.16 15420653.29 0.0144 0.0052

Uranus 37508-06-15 19:26 G 15420741.20 15420741.31 15420741.43 0.0144 0.0075

Uranus 37508-09-11 23:17 G 15420829.38 15420829.47 15420829.57 0.0144 0.0097

Uranus 37508-12-09 03:07 G 15420917.56 15420917.63 15420917.71 0.0144 0.0119

Uranus 37509-03-07 06:57 G 15421005.77 15421005.79 15421005.81 0.0144 0.0141

Jupiter 37513-08-21 09:50 G 15422633.76 15422633.91 15422634.06 0.0506 0.0293

Mars 37516-10-12 08:09 G 15423781.80 15423781.84 15423781.89 0.1625 0.1551

Jupiter 37519-04-15 06:43 G 15424696.69 15424696.78 15424696.87 0.0521 0.0365

Jupiter 37519-07-13 11:31 G 15424785.86 15424785.98 15424786.09 0.0519 0.0225

Moon 37520-06-27 23:31 G 15425136.38 15425136.48 15425136.59 0.2649 0.0514

Earth 37520-06-28 00:14 G 15425136.40 15425136.51 15425136.62 0.2652 0.0444 *

Venus 37520-12-25 15:36 G 15425317.06 15425317.15 15425317.24 0.3687 0.1948

Saturn 37521-02-10 20:38 G 15425364.20 15425364.36 15425364.53 0.0287 0.0137

Saturn 37521-05-10 21:07 G 15425453.20 15425453.38 15425453.57 0.0288 0.0069

Saturn 37521-08-07 21:21 G 15425542.34 15425542.39 15425542.45 0.0290 0.0275

Neptune 37522-08-29 13:41 G 15425929.04 15425929.07 15425929.13 0.0089 0.0084

Neptune 37522-11-25 15:07 G 15426017.07 15426017.13 15426017.20 0.0089 0.0076

Neptune 37523-02-21 16:33 G 15426105.11 15426105.19 15426105.27 0.0089 0.0069

Neptune 37523-05-20 17:45 G 15426193.15 15426193.24 15426193.34 0.0089 0.0062

Neptune 37523-08-16 18:57 G 15426281.20 15426281.29 15426281.40 0.0089 0.0055

Neptune 37523-11-12 20:24 G 15426369.24 15426369.35 15426369.47 0.0089 0.0047

Earth 37523-12-29 03:50 G 15426415.50 15426415.66 15426415.82 0.2679 0.0574

Moon 37523-12-29 05:31 G 15426415.57 15426415.73 15426415.89 0.2676 0.0441 *

Neptune 37524-02-08 21:50 G 15426457.29 15426457.41 15426457.53 0.0089 0.0040

Neptune 37524-05-06 23:02 G 15426545.34 15426545.46 15426545.59 0.0089 0.0033

Neptune 37524-08-03 00:14 G 15426633.39 15426633.51 15426633.65 0.0089 0.0026

Neptune 37524-10-30 01:41 G 15426721.44 15426721.57 15426721.70 0.0089 0.0018

Neptune 37525-01-26 03:07 G 15426809.50 15426809.63 15426809.76 0.0089 0.0011

Neptune 37525-04-24 04:19 G 15426897.55 15426897.68 15426897.82 0.0089 0.0004

Jupiter 37525-06-09 06:00 G 15426943.75 15426943.75 15426943.76 0.0505 0.0504

Neptune 37525-07-21 05:45 G 15426985.60 15426985.74 15426985.87 0.0089 0.0004

Jupiter 37525-09-07 18:14 G 15427034.12 15427034.26 15427034.40 0.0507 0.0331

Neptune 37525-10-17 06:57 G 15427073.66 15427073.79 15427073.92 0.0088 0.0012

Neptune 37526-01-13 08:24 G 15427161.72 15427161.85 15427161.98 0.0088 0.0019

Mars 37526-03-04 10:19 G 15427211.77 15427211.93 15427212.10 0.1620 0.0243

Neptune 37526-04-11 09:36 G 15427249.78 15427249.90 15427250.03 0.0088 0.0026

Neptune 37526-07-08 11:02 G 15427337.84 15427337.96 15427338.08 0.0088 0.0034

Venus 37526-07-11 07:55 G 15427340.72 15427340.83 15427340.94 0.3686 0.0035

Neptune 37526-10-04 12:14 G 15427425.90 15427426.01 15427426.13 0.0088 0.0041

Neptune 37526-12-31 13:26 G 15427513.96 15427514.06 15427514.18 0.0088 0.0049

Neptune 37527-03-29 14:53 G 15427602.02 15427602.12 15427602.23 0.0088 0.0056

Neptune 37527-06-25 16:05 G 15427690.09 15427690.17 15427690.27 0.0088 0.0064

Neptune 37527-09-21 17:31 G 15427778.16 15427778.23 15427778.32 0.0088 0.0071

Neptune 37527-12-18 18:43 G 15427866.23 15427866.28 15427866.35 0.0088 0.0079

Neptune 37528-03-15 20:09 G 15427954.32 15427954.34 15427954.38 0.0088 0.0086

Mars 37528-12-04 06:43 G 15428217.67 15428217.78 15428217.88 0.1914 0.0648

Jupiter 37531-02-01 11:31 G 15429006.96 15429006.98 15429007.01 0.0521 0.0507

Pluto 37531-04-25 19:41 G 15429090.28 15429090.32 15429090.39 0.0069 0.0062

Jupiter 37531-05-01 16:05 G 15429096.05 15429096.17 15429096.30 0.0519 0.0083

Pluto 37531-07-22 20:09 G 15429178.27 15429178.34 15429178.44 0.0069 0.0052

Pluto 37531-10-18 21:07 G 15429266.28 15429266.38 15429266.48 0.0069 0.0042

Pluto 37532-01-14 21:36 G 15429354.29 15429354.40 15429354.52 0.0069 0.0032

Venus 37532-01-25 00:14 G 15429364.42 15429364.51 15429364.60 0.3685 0.2048

Pluto 37532-04-11 22:05 G 15429442.30 15429442.42 15429442.55 0.0069 0.0021

Pluto 37532-07-08 22:33 G 15429530.32 15429530.44 15429530.58 0.0070 0.0012

Pluto 37532-10-04 23:17 G 15429618.34 15429618.47 15429618.60 0.0070 0.0001

Pluto 37532-12-31 23:45 G 15429706.36 15429706.49 15429706.62 0.0070 0.0010

Pluto 37533-03-30 00:29 G 15429794.39 15429794.52 15429794.64 0.0070 0.0020

Pluto 37533-06-26 00:43 G 15429882.42 15429882.53 15429882.66 0.0070 0.0031

Moon 37533-06-30 16:48 G 15429887.09 15429887.20 15429887.30 0.2653 0.0695

Earth 37533-06-30 17:17 G 15429887.12 15429887.22 15429887.32 0.2652 0.0830 *

Pluto 37533-09-22 01:26 G 15429970.46 15429970.56 15429970.67 0.0070 0.0041

Pluto 37533-12-19 01:41 G 15430058.50 15430058.57 15430058.67 0.0070 0.0053

Pluto 37534-03-17 02:38 G 15430146.55 15430146.61 15430146.67 0.0070 0.0063

Saturn 37534-03-22 23:31 G 15430152.39 15430152.48 15430152.58 0.0276 0.0183

Saturn 37534-06-19 10:19 G 15430240.80 15430240.93 15430241.05 0.0275 0.0060

Saturn 37534-09-15 20:38 G 15430329.24 15430329.36 15430329.49 0.0274 0.0066

Saturn 37534-12-13 07:26 G 15430417.71 15430417.81 15430417.90 0.0273 0.0187

Mars 37535-07-25 12:29 G 15430641.90 15430642.02 15430642.14 0.1616 0.1082

Venus 37536-01-23 11:31 G 15430823.83 15430823.98 15430824.12 0.3684 0.0798

Earth 37536-12-31 13:12 G 15431167.02 15431167.05 15431167.09 0.2679 0.2608

Jupiter 37537-06-26 13:55 G 15431343.90 15431344.08 15431344.26 0.0507 0.0110

Mars 37538-04-26 14:38 G 15431648.00 15431648.11 15431648.21 0.1919 0.0741

Moon 37540-06-23 19:12 G 15432437.29 15432437.30 15432437.31 0.2646 0.2622

Jupiter 37543-02-17 20:38 G 15433406.24 15433406.36 15433406.49 0.0519 0.0065

Moon 37546-07-03 10:05 G 15434637.85 15434637.92 15434637.98 0.2658 0.2119

Earth 37546-07-03 10:19 G 15434637.87 15434637.93 15434638.00 0.2652 0.2106 *

Uranus 37546-11-19 06:14 G 15434776.66 15434776.76 15434776.87 0.0135 0.0113

Uranus 37547-02-15 13:26 G 15434864.91 15434865.06 15434865.21 0.0135 0.0086

Uranus 37547-05-14 20:38 G 15434953.19 15434953.36 15434953.53 0.0135 0.0060

Uranus 37547-08-11 03:36 G 15435041.47 15435041.65 15435041.84 0.0135 0.0035

Uranus 37547-11-07 10:48 G 15435129.76 15435129.95 15435130.14 0.0135 0.0009

Uranus 37548-02-03 17:45 G 15435218.05 15435218.24 15435218.43 0.0135 0.0017

Uranus 37548-05-02 00:43 G 15435306.35 15435306.53 15435306.71 0.0135 0.0042

Uranus 37548-07-29 07:26 G 15435394.65 15435394.81 15435394.98 0.0135 0.0067

Uranus 37548-10-25 14:09 G 15435482.97 15435483.09 15435483.24 0.0135 0.0093

Uranus 37549-01-21 20:53 G 15435571.30 15435571.37 15435571.48 0.0134 0.0118

Jupiter 37549-04-14 10:33 G 15435653.76 15435653.94 15435654.12 0.0506 0.0096

Saturn 37550-06-30 20:53 G 15436096.22 15436096.37 15436096.52 0.0287 0.0179

Saturn 37550-09-27 21:21 G 15436185.20 15436185.39 15436185.57 0.0288 0.0027

Saturn 37550-12-25 21:21 G 15436274.29 15436274.39 15436274.51 0.0289 0.0233

Moon 37553-06-26 11:45 G 15437187.90 15437187.99 15437188.08 0.2647 0.1495

Earth 37553-06-26 12:00 G 15437187.91 15437188.00 15437188.08 0.2653 0.1454 *

Jupiter 37554-12-07 00:29 G 15437716.41 15437716.52 15437716.64 0.0520 0.0224

Jupiter 37555-03-06 05:17 G 15437805.63 15437805.72 15437805.81 0.0518 0.0366

Jupiter 37561-01-31 07:12 G 15439963.66 15439963.80 15439963.95 0.0506 0.0301

Saturn 37563-08-10 02:53 G 15440884.54 15440884.62 15440884.71 0.0276 0.0210

Saturn 37563-11-06 13:26 G 15440972.94 15440973.06 15440973.19 0.0275 0.0087

Saturn 37564-02-03 00:14 G 15441061.38 15441061.51 15441061.64 0.0274 0.0038

Saturn 37564-05-01 10:48 G 15441149.84 15441149.95 15441150.05 0.0273 0.0161

Mars 37565-09-02 11:02 G 15441638.80 15441638.96 15441639.12 0.1621 0.0441

Moon 37566-06-29 04:19 G 15441938.57 15441938.68 15441938.79 0.2649 0.0291

Earth 37566-06-29 05:02 G 15441938.60 15441938.71 15441938.81 0.2652 0.0200 *

Jupiter 37566-09-25 04:48 G 15442026.62 15442026.70 15442026.79 0.0521 0.0375

Jupiter 37566-12-23 09:36 G 15442115.78 15442115.90 15442116.01 0.0519 0.0215

Mars 37568-06-04 06:29 G 15442644.67 15442644.77 15442644.88 0.1914 0.0796

Earth 37569-12-29 10:48 G 15443217.79 15443217.95 15443218.12 0.2679 0.0057

Moon 37569-12-29 12:14 G 15443217.84 15443218.01 15443218.17 0.2675 0.0218 *

Venus 37572-01-16 21:07 G 15443966.33 15443966.38 15443966.43 0.3687 0.3190

Jupiter 37573-02-17 15:21 G 15444364.00 15444364.14 15444364.28 0.0507 0.0319

Mars 37575-01-23 13:12 G 15445068.91 15445069.05 15445069.19 0.1617 0.0869

Venus 37577-08-01 13:12 G 15445989.95 15445990.05 15445990.15 0.3687 0.1245

Mars 37577-10-25 14:38 G 15446075.00 15446075.11 15446075.22 0.1919 0.0567

Jupiter 37578-10-11 13:55 G 15446425.96 15446426.08 15446426.21 0.0519 0.0071

Moon 37579-07-01 21:21 G 15446689.30 15446689.39 15446689.49 0.2655 0.1043

Earth 37579-07-01 22:05 G 15446689.32 15446689.42 15446689.52 0.2652 0.1085 *

Saturn 37579-11-17 20:38 G 15446828.26 15446828.36 15446828.49 0.0287 0.0225

Saturn 37580-02-14 21:21 G 15446917.20 15446917.39 15446917.58 0.0288 0.0019

Saturn 37580-05-13 21:36 G 15447006.26 15447006.40 15447006.54 0.0289 0.0187

Venus 37583-02-15 05:31 G 15448013.63 15448013.73 15448013.84 0.3686 0.0755

Jupiter 37584-12-06 11:31 G 15448673.80 15448673.98 15448674.17 0.0506 0.0109

Earth 37586-06-24 23:31 G 15449239.45 15449239.48 15449239.52 0.2653 0.2454

Moon 37586-06-24 23:45 G 15449239.46 15449239.49 15449239.53 0.2646 0.2464 *

Venus 37588-08-30 21:50 G 15450037.35 15450037.41 15450037.48 0.3685 0.2781

Uranus 37590-02-05 14:53 G 15450561.08 15450561.12 15450561.17 0.0143 0.0133

Uranus 37590-05-04 18:29 G 15450649.19 15450649.27 15450649.35 0.0143 0.0112

Jupiter 37590-07-30 18:43 G 15450736.16 15450736.28 15450736.41 0.0520 0.0075

Uranus 37590-07-31 22:05 G 15450737.32 15450737.42 15450737.52 0.0143 0.0091

Uranus 37590-10-28 01:26 G 15450825.45 15450825.56 15450825.68 0.0143 0.0071

Jupiter 37590-10-27 23:31 G 15450825.48 15450825.48 15450825.49 0.0517 0.0516 *

Uranus 37591-01-24 05:17 G 15450913.59 15450913.72 15450913.84 0.0143 0.0049

Uranus 37591-04-22 08:53 G 15451001.74 15451001.87 15451002.00 0.0143 0.0027

Uranus 37591-07-19 12:29 G 15451089.89 15451090.02 15451090.16 0.0143 0.0006

Uranus 37591-10-15 16:19 G 15451178.04 15451178.18 15451178.31 0.0144 0.0017

Uranus 37592-01-11 19:55 G 15451266.20 15451266.33 15451266.46 0.0144 0.0038

Uranus 37592-04-08 23:31 G 15451354.36 15451354.48 15451354.61 0.0144 0.0060

Moon 37592-07-03 14:53 G 15451440.06 15451440.12 15451440.17 0.2658 0.2272

Earth 37592-07-03 15:07 G 15451440.08 15451440.13 15451440.18 0.2652 0.2366 *

Uranus 37592-07-06 03:21 G 15451442.53 15451442.64 15451442.75 0.0144 0.0082

Venus 37592-08-29 12:29 G 15451496.88 15451497.02 15451497.16 0.3685 0.0874

Uranus 37592-10-02 06:57 G 15451530.71 15451530.79 15451530.89 0.0144 0.0105

Saturn 37592-12-27 06:00 G 15451616.69 15451616.75 15451616.81 0.0277 0.0241

Uranus 37592-12-29 10:48 G 15451618.89 15451618.95 15451619.02 0.0144 0.0127

Saturn 37593-03-25 16:33 G 15451705.07 15451705.19 15451705.31 0.0276 0.0117

Saturn 37593-06-22 03:07 G 15451793.50 15451793.63 15451793.76 0.0274 0.0009

Saturn 37593-09-18 13:41 G 15451881.96 15451882.07 15451882.19 0.0273 0.0131

Saturn 37593-12-16 00:14 G 15451970.47 15451970.51 15451970.56 0.0272 0.0253

Jupiter 37596-09-24 06:57 G 15452983.61 15452983.79 15452983.98 0.0506 0.0116

Moon 37599-06-27 16:19 G 15453990.08 15453990.18 15453990.27 0.2647 0.1211

Earth 37599-06-27 16:33 G 15453990.10 15453990.19 15453990.29 0.2652 0.1198 *

Jupiter 37602-05-18 23:17 G 15455046.35 15455046.47 15455046.58 0.0520 0.0221

Jupiter 37602-08-16 03:50 G 15455135.58 15455135.66 15455135.75 0.0518 0.0369

Earth 37602-12-27 08:09 G 15455268.81 15455268.84 15455268.88 0.2679 0.2608

Moon 37602-12-27 10:05 G 15455268.85 15455268.92 15455268.99 0.2679 0.2427 *

Mars 37605-03-03 11:31 G 15456065.83 15456065.98 15456066.13 0.1621 0.0642

Neptune 37607-02-02 22:33 G 15456767.37 15456767.44 15456767.51 0.0089 0.0082

Neptune 37607-05-02 01:41 G 15456855.48 15456855.57 15456855.71 0.0089 0.0072

Neptune 37607-07-29 05:17 G 15456943.60 15456943.72 15456943.88 0.0089 0.0061

Neptune 37607-10-25 09:07 G 15457031.73 15457031.88 15457032.05 0.0089 0.0050

Mars 37607-12-04 06:43 G 15457071.68 15457071.78 15457071.88 0.1914 0.0971

Neptune 37608-01-21 12:43 G 15457119.87 15457120.03 15457120.22 0.0089 0.0039

Neptune 37608-04-18 16:19 G 15457208.01 15457208.18 15457208.37 0.0089 0.0028

Jupiter 37608-07-13 03:36 G 15457293.51 15457293.65 15457293.79 0.0506 0.0323

Neptune 37608-07-15 20:09 G 15457296.15 15457296.34 15457296.53 0.0089 0.0017

Neptune 37608-10-11 23:31 G 15457384.30 15457384.48 15457384.68 0.0089 0.0007

Neptune 37609-01-08 03:07 G 15457472.44 15457472.63 15457472.83 0.0089 0.0005

Saturn 37609-04-05 20:38 G 15457560.30 15457560.36 15457560.43 0.0286 0.0267

Neptune 37609-04-06 06:43 G 15457560.59 15457560.78 15457560.97 0.0089 0.0015

Neptune 37609-07-03 10:19 G 15457648.75 15457648.93 15457649.12 0.0089 0.0026

Saturn 37609-07-03 21:21 G 15457649.21 15457649.39 15457649.57 0.0287 0.0062

Neptune 37609-09-29 13:41 G 15457736.90 15457737.07 15457737.25 0.0089 0.0037

Saturn 37609-09-30 21:36 G 15457738.24 15457738.40 15457738.56 0.0288 0.0145

Neptune 37609-12-26 17:02 G 15457825.06 15457825.21 15457825.39 0.0089 0.0048

Neptune 37610-03-24 20:53 G 15457913.23 15457913.37 15457913.52 0.0089 0.0058

Neptune 37610-06-21 00:00 G 15458001.40 15458001.50 15458001.64 0.0089 0.0069

Neptune 37610-09-17 03:21 G 15458089.58 15458089.64 15458089.75 0.0089 0.0080

Moon 37612-06-29 09:07 G 15458740.77 15458740.88 15458740.99 0.2650 0.0060

Earth 37612-06-29 09:36 G 15458740.80 15458740.90 15458741.01 0.2652 0.0105 *

Jupiter 37614-03-07 03:07 G 15459356.55 15459356.63 15459356.71 0.0520 0.0381

Jupiter 37614-06-04 07:41 G 15459445.71 15459445.82 15459445.94 0.0518 0.0209

Mars 37614-07-24 13:55 G 15459495.92 15459496.08 15459496.23 0.1617 0.0667

Earth 37615-12-30 17:45 G 15460020.08 15460020.24 15460020.40 0.2679 0.0614

Moon 37615-12-30 18:57 G 15460020.13 15460020.29 15460020.45 0.2674 0.0766 *

Mars 37617-04-25 14:38 G 15460502.00 15460502.11 15460502.22 0.1919 0.0412

Pluto 37617-05-30 12:43 G 15460536.92 15460537.03 15460537.15 0.0075 0.0061

Pluto 37617-08-26 15:07 G 15460624.98 15460625.13 15460625.31 0.0075 0.0042

Pluto 37617-11-22 17:45 G 15460713.07 15460713.24 15460713.45 0.0075 0.0023

Pluto 37618-02-18 20:38 G 15460801.17 15460801.36 15460801.56 0.0075 0.0003

Pluto 37618-05-17 23:02 G 15460889.28 15460889.46 15460889.67 0.0075 0.0017

Pluto 37618-08-14 01:41 G 15460977.41 15460977.57 15460977.75 0.0074 0.0036

Pluto 37618-11-10 04:05 G 15461065.55 15461065.67 15461065.82 0.0074 0.0055

Pluto 37619-02-06 06:43 G 15461153.77 15461153.78 15461153.82 0.0074 0.0073

Jupiter 37620-07-30 12:29 G 15461693.88 15461694.02 15461694.17 0.0507 0.0310

Saturn 37622-05-16 09:36 G 15462348.87 15462348.90 15462348.94 0.0277 0.0266

Saturn 37622-08-12 20:09 G 15462437.23 15462437.34 15462437.46 0.0276 0.0141

Saturn 37622-11-09 06:57 G 15462525.65 15462525.79 15462525.92 0.0275 0.0019

Saturn 37623-02-05 17:17 G 15462614.10 15462614.22 15462614.35 0.0274 0.0107

Saturn 37623-05-05 03:50 G 15462702.60 15462702.66 15462702.74 0.0273 0.0229

Moon 37625-07-02 02:09 G 15463491.50 15463491.59 15463491.69 0.2656 0.1247

Earth 37625-07-02 02:38 G 15463491.52 15463491.61 15463491.71 0.2652 0.1350 *

Jupiter 37626-03-23 12:00 G 15463755.87 15463756.00 15463756.13 0.0519 0.0057

Mars 37626-09-15 22:33 G 15463932.41 15463932.44 15463932.48 0.1924 0.1792

Venus 37628-08-22 18:43 G 15464639.20 15464639.28 15464639.35 0.3687 0.2498

Uranus 37630-09-12 07:12 G 15465389.75 15465389.80 15465389.87 0.0135 0.0128

Uranus 37630-12-09 14:24 G 15465477.99 15465478.10 15465478.24 0.0135 0.0102

Uranus 37631-03-07 21:50 G 15465566.25 15465566.41 15465566.57 0.0135 0.0076

Uranus 37631-06-04 04:48 G 15465654.53 15465654.70 15465654.88 0.0135 0.0050

Uranus 37631-08-31 12:00 G 15465742.82 15465743.00 15465743.19 0.0135 0.0024

Uranus 37631-11-27 19:12 G 15465831.11 15465831.30 15465831.49 0.0135 0.0003

Uranus 37632-02-24 01:55 G 15465919.40 15465919.58 15465919.77 0.0135 0.0028

Jupiter 37632-05-18 08:38 G 15466003.68 15466003.86 15466004.04 0.0506 0.0096

Uranus 37632-05-22 08:53 G 15466007.70 15466007.87 15466008.05 0.0135 0.0053

Moon 37632-06-25 04:33 G 15466041.62 15466041.69 15466041.75 0.2646 0.2119

Earth 37632-06-25 04:19 G 15466041.62 15466041.68 15466041.74 0.2653 0.2195 *

Uranus 37632-08-18 15:50 G 15466096.01 15466096.16 15466096.32 0.0135 0.0078

Uranus 37632-11-14 22:48 G 15466184.33 15466184.45 15466184.57 0.0134 0.0103

Uranus 37633-02-11 05:31 G 15466272.68 15466272.73 15466272.79 0.0134 0.0128

Venus 37634-03-08 10:48 G 15466662.85 15466662.95 15466663.06 0.3686 0.0551

Jupiter 37638-01-09 16:19 G 15468066.06 15468066.18 15468066.31 0.0520 0.0092

Jupiter 37638-04-08 21:07 G 15468155.36 15468155.38 15468155.42 0.0518 0.0500

Moon 37638-07-04 19:41 G 15468242.32 15468242.32 15468242.32 0.2658 0.2650

Earth 37638-07-04 19:55 G 15468242.32 15468242.33 15468242.34 0.2652 0.2623 *

Saturn 37638-11-20 21:36 G 15468381.23 15468381.40 15468381.58 0.0287 0.0104

Saturn 37639-02-17 22:05 G 15468470.25 15468470.42 15468470.60 0.0289 0.0102

Venus 37639-09-22 03:07 G 15468686.54 15468686.63 15468686.73 0.3686 0.1483

Venus 37643-09-20 08:09 G 15470145.74 15470145.84 15470145.95 0.3684 0.2494

Jupiter 37644-03-06 04:48 G 15470313.52 15470313.70 15470313.88 0.0506 0.0118

Mars 37644-09-01 12:14 G 15470492.87 15470493.01 15470493.15 0.1621 0.0851

Venus 37645-04-06 19:41 G 15470710.29 15470710.32 15470710.35 0.3685 0.3522

Moon 37645-06-27 20:53 G 15470792.27 15470792.37 15470792.47 0.2647 0.1048

Earth 37645-06-27 21:21 G 15470792.29 15470792.39 15470792.49 0.2652 0.0936 *

Mars 37647-06-04 06:29 G 15471498.68 15471498.77 15471498.87 0.1913 0.1116

Earth 37648-12-27 15:07 G 15472071.03 15472071.13 15472071.24 0.2679 0.2007

Moon 37648-12-27 16:48 G 15472071.08 15472071.20 15472071.33 0.2677 0.1699 *

Venus 37649-04-05 13:41 G 15472169.96 15472170.07 15472170.17 0.3685 0.2515

Jupiter 37649-10-28 21:07 G 15472376.27 15472376.38 15472376.50 0.0520 0.0234

Jupiter 37650-01-26 01:55 G 15472465.49 15472465.58 15472465.67 0.0518 0.0357

Saturn 37651-12-30 23:31 G 15473169.38 15473169.48 15473169.58 0.0276 0.0169

Saturn 37652-03-28 10:05 G 15473257.79 15473257.92 15473258.05 0.0275 0.0045

Saturn 37652-06-24 20:38 G 15473346.23 15473346.36 15473346.49 0.0274 0.0078

Saturn 37652-09-21 07:12 G 15473434.71 15473434.80 15473434.89 0.0273 0.0201

Mars 37654-01-22 14:24 G 15473922.94 15473923.10 15473923.26 0.1617 0.0469

Jupiter 37655-12-24 00:00 G 15474623.37 15474623.50 15474623.64 0.0506 0.0343

Jupiter 37656-03-23 12:00 G 15474713.96 15474714.00 15474714.05 0.0508 0.0492

Mars 37656-10-24 14:38 G 15474928.99 15474929.11 15474929.22 0.1919 0.0266

Moon 37658-06-30 13:41 G 15475542.97 15475543.07 15475543.18 0.2651 0.0276

Earth 37658-06-30 14:24 G 15475542.99 15475543.10 15475543.21 0.2652 0.0327 *

Jupiter 37661-08-17 01:41 G 15476686.49 15476686.57 15476686.66 0.0521 0.0379

Jupiter 37661-11-14 06:29 G 15476775.65 15476775.77 15476775.88 0.0519 0.0211

Earth 37661-12-31 00:43 G 15476822.39 15476822.53 15476822.68 0.2680 0.1213

Moon 37661-12-31 01:55 G 15476822.44 15476822.58 15476822.72 0.2674 0.1322 *

Mars 37666-03-16 22:48 G 15478359.39 15478359.45 15478359.51 0.1924 0.1625

Jupiter 37668-01-10 08:53 G 15479023.72 15479023.87 15479024.02 0.0507 0.0288

Saturn 37668-04-08 21:36 G 15479113.24 15479113.40 15479113.57 0.0287 0.0147

Saturn 37668-07-06 22:05 G 15479202.24 15479202.42 15479202.61 0.0288 0.0059

Saturn 37668-10-03 22:05 G 15479291.37 15479291.42 15479291.51 0.0289 0.0267

Moon 37671-07-03 06:57 G 15480293.70 15480293.79 15480293.87 0.2656 0.1535

Earth 37671-07-03 07:26 G 15480293.73 15480293.81 15480293.90 0.2652 0.1601 *

Jupiter 37673-09-02 10:05 G 15481085.80 15481085.92 15481086.05 0.0519 0.0051

Uranus 37674-02-25 22:05 G 15481262.37 15481262.42 15481262.48 0.0143 0.0128

Uranus 37674-05-25 01:41 G 15481350.49 15481350.57 15481350.66 0.0143 0.0107

Uranus 37674-08-21 05:17 G 15481438.62 15481438.72 15481438.83 0.0143 0.0086

Uranus 37674-11-17 08:53 G 15481526.75 15481526.87 15481526.99 0.0143 0.0065

Uranus 37675-02-13 12:29 G 15481614.89 15481615.02 15481615.15 0.0143 0.0044

Uranus 37675-05-12 16:05 G 15481703.04 15481703.17 15481703.30 0.0143 0.0022

Uranus 37675-08-08 19:41 G 15481791.19 15481791.32 15481791.46 0.0143 0.0004

Uranus 37675-11-04 23:31 G 15481879.34 15481879.48 15481879.61 0.0144 0.0021

Uranus 37676-02-01 03:07 G 15481967.50 15481967.63 15481967.76 0.0144 0.0043

Uranus 37676-04-29 06:43 G 15482055.67 15482055.78 15482055.90 0.0144 0.0065

Uranus 37676-07-26 10:33 G 15482143.83 15482143.94 15482144.05 0.0144 0.0087

Uranus 37676-10-22 14:24 G 15482232.01 15482232.10 15482232.18 0.0144 0.0109

Uranus 37677-01-18 17:45 G 15482320.20 15482320.24 15482320.31 0.0144 0.0132

Moon 37678-06-26 09:07 G 15482843.81 15482843.88 15482843.95 0.2646 0.1991

Earth 37678-06-26 09:07 G 15482843.81 15482843.88 15482843.95 0.2653 0.1939 *

Jupiter 37679-10-29 05:45 G 15483333.56 15483333.74 15483333.93 0.0507 0.0087

Saturn 37681-05-19 03:07 G 15483901.54 15483901.63 15483901.73 0.0276 0.0194

Saturn 37681-08-15 13:41 G 15483989.95 15483990.07 15483990.20 0.0275 0.0070

Saturn 37681-11-12 00:14 G 15484078.38 15484078.51 15484078.64 0.0274 0.0054

Saturn 37682-02-08 10:48 G 15484166.85 15484166.95 15484167.05 0.0273 0.0177

Mars 37684-03-02 12:57 G 15484919.91 15484920.04 15484920.16 0.1621 0.1055

Venus 37685-03-29 16:19 G 15485312.09 15485312.18 15485312.27 0.3687 0.1801

Jupiter 37685-06-21 14:24 G 15485395.98 15485396.10 15485396.22 0.0520 0.0103

Jupiter 37685-09-18 19:12 G 15485485.26 15485485.30 15485485.34 0.0518 0.0488

Mars 37686-12-03 06:29 G 15485925.69 15485925.77 15485925.86 0.1913 0.1276

Neptune 37687-05-26 12:57 G 15486100.01 15486100.04 15486100.10 0.0089 0.0083

Neptune 37687-08-22 14:09 G 15486188.04 15486188.09 15486188.17 0.0089 0.0076

Neptune 37687-11-18 15:50 G 15486276.07 15486276.16 15486276.24 0.0089 0.0068

Neptune 37688-02-14 17:02 G 15486364.12 15486364.21 15486364.31 0.0089 0.0061

Neptune 37688-05-12 18:14 G 15486452.16 15486452.26 15486452.37 0.0089 0.0054

Neptune 37688-08-08 19:26 G 15486540.21 15486540.31 15486540.43 0.0089 0.0047

Neptune 37688-11-04 20:53 G 15486628.26 15486628.37 15486628.49 0.0089 0.0039

Neptune 37689-01-31 22:05 G 15486716.31 15486716.42 15486716.55 0.0089 0.0032

Neptune 37689-04-29 23:31 G 15486804.36 15486804.48 15486804.61 0.0089 0.0024

Neptune 37689-07-27 00:57 G 15486892.41 15486892.54 15486892.67 0.0089 0.0017

Neptune 37689-10-23 02:09 G 15486980.46 15486980.59 15486980.73 0.0089 0.0010

Neptune 37690-01-19 03:36 G 15487068.52 15487068.65 15487068.78 0.0089 0.0002

Neptune 37690-04-17 04:48 G 15487156.57 15487156.70 15487156.84 0.0089 0.0006

Neptune 37690-07-14 06:14 G 15487244.63 15487244.76 15487244.89 0.0089 0.0013

Neptune 37690-10-10 07:26 G 15487332.68 15487332.81 15487332.94 0.0089 0.0020

Venus 37690-10-13 08:38 G 15487335.75 15487335.86 15487335.96 0.3686 0.0238

Neptune 37691-01-06 08:53 G 15487420.74 15487420.87 15487421.00 0.0088 0.0027

Neptune 37691-04-04 10:05 G 15487508.80 15487508.92 15487509.05 0.0088 0.0035

Moon 37691-06-29 01:41 G 15487594.46 15487594.57 15487594.67 0.2647 0.0690

Earth 37691-06-29 02:09 G 15487594.48 15487594.59 15487594.69 0.2652 0.0682 *

Neptune 37691-07-01 11:17 G 15487596.86 15487596.97 15487597.10 0.0088 0.0043

Jupiter 37691-08-17 01:55 G 15487643.40 15487643.58 15487643.76 0.0506 0.0129

Neptune 37691-09-27 12:43 G 15487684.93 15487685.03 15487685.15 0.0088 0.0050

Neptune 37691-12-24 13:55 G 15487772.99 15487773.08 15487773.19 0.0088 0.0058

Neptune 37692-03-21 15:21 G 15487861.06 15487861.14 15487861.24 0.0088 0.0065

Neptune 37692-06-17 16:48 G 15487949.13 15487949.20 15487949.28 0.0088 0.0072

Neptune 37692-09-13 18:00 G 15488037.20 15488037.25 15488037.32 0.0088 0.0079

Neptune 37692-12-10 19:26 G 15488125.29 15488125.31 15488125.34 0.0088 0.0087

Mars 37693-07-23 15:07 G 15488349.97 15488350.13 15488350.29 0.1617 0.0259

Earth 37694-12-28 22:19 G 15488873.29 15488873.43 15488873.57 0.2679 0.1393

Moon 37694-12-29 00:00 G 15488873.35 15488873.50 15488873.64 0.2675 0.1302 *

Mars 37696-04-24 14:38 G 15489355.99 15489356.11 15489356.22 0.1919 0.0102

Venus 37696-04-28 00:43 G 15489359.45 15489359.53 15489359.62 0.3686 0.2201

Jupiter 37697-04-09 18:43 G 15489706.17 15489706.28 15489706.40 0.0520 0.0252

Jupiter 37697-07-07 23:31 G 15489795.39 15489795.48 15489795.58 0.0518 0.0340

Saturn 37697-08-26 21:50 G 15489845.27 15489845.41 15489845.55 0.0287 0.0192

Saturn 37697-11-23 22:19 G 15489934.24 15489934.43 15489934.62 0.0288 0.0015

Saturn 37698-02-20 22:33 G 15490023.33 15490023.44 15490023.56 0.0289 0.0222

Venus 37700-04-27 09:21 G 15490818.75 15490818.89 15490819.04 0.3684 0.0807

Mars 37702-12-14 17:17 G 15491780.18 15491780.22 15491780.25 0.1613 0.1572

Jupiter 37703-06-05 21:50 G 15491953.28 15491953.41 15491953.55 0.0505 0.0343

Jupiter 37703-09-04 09:50 G 15492043.87 15492043.91 15492043.96 0.0507 0.0490

Moon 37704-07-01 18:29 G 15492345.16 15492345.27 15492345.38 0.2653 0.0451

Earth 37704-07-01 19:12 G 15492345.19 15492345.30 15492345.40 0.2652 0.0592 *

Mars 37705-09-15 22:33 G 15492786.37 15492786.44 15492786.51 0.1924 0.1480

Earth 37708-01-02 07:41 G 15493624.71 15493624.82 15493624.94 0.2680 0.1809

Moon 37708-01-02 08:53 G 15493624.75 15493624.87 15493624.98 0.2674 0.1974 *

Jupiter 37709-01-27 23:31 G 15494016.40 15494016.48 15494016.57 0.0521 0.0393

Jupiter 37709-04-27 04:19 G 15494105.56 15494105.68 15494105.80 0.0519 0.0198

Saturn 37710-10-07 06:29 G 15494633.69 15494633.77 15494633.85 0.0276 0.0222

Saturn 37711-01-03 17:02 G 15494722.09 15494722.21 15494722.33 0.0275 0.0097

Saturn 37711-04-02 03:36 G 15494810.52 15494810.65 15494810.78 0.0274 0.0027

Saturn 37711-06-29 14:09 G 15494898.98 15494899.09 15494899.20 0.0273 0.0149

Saturn 37711-09-26 00:29 G 15494987.52 15494987.52 15494987.53 0.0272 0.0271

Uranus 37714-10-03 14:38 G 15496091.04 15496091.11 15496091.21 0.0135 0.0121

Uranus 37714-12-30 21:50 G 15496179.29 15496179.41 15496179.56 0.0135 0.0095

Uranus 37715-03-29 05:02 G 15496267.56 15496267.71 15496267.89 0.0135 0.0069

Jupiter 37715-06-23 05:31 G 15496353.57 15496353.73 15496353.89 0.0507 0.0270

Uranus 37715-06-25 12:14 G 15496355.84 15496356.01 15496356.20 0.0135 0.0042

Uranus 37715-09-21 19:41 G 15496444.13 15496444.32 15496444.51 0.0135 0.0016

Uranus 37715-12-19 02:38 G 15496532.42 15496532.61 15496532.80 0.0135 0.0010

Uranus 37716-03-16 09:36 G 15496620.72 15496620.90 15496621.08 0.0135 0.0035

Uranus 37716-06-12 16:33 G 15496709.02 15496709.19 15496709.36 0.0135 0.0061

Uranus 37716-09-08 23:17 G 15496797.34 15496797.47 15496797.62 0.0135 0.0086

Uranus 37716-12-06 06:14 G 15496885.66 15496885.76 15496885.87 0.0135 0.0111

Moon 37717-07-04 11:45 G 15497095.91 15497095.99 15497096.07 0.2656 0.1804

Earth 37717-07-04 12:14 G 15497095.93 15497096.01 15497096.08 0.2652 0.1862 *

Jupiter 37721-02-13 08:53 G 15498415.74 15498415.87 15498415.99 0.0519 0.0053

Mars 37723-09-02 13:26 G 15499346.96 15499347.06 15499347.16 0.1621 0.1249

Moon 37724-06-27 13:41 G 15499645.98 15499646.07 15499646.15 0.2646 0.1659

Earth 37724-06-27 13:41 G 15499645.99 15499646.07 15499646.16 0.2653 0.1685 *

Mars 37726-06-04 06:29 G 15500352.70 15500352.77 15500352.85 0.1914 0.1443

Saturn 37727-01-14 20:53 G 15500577.28 15500577.37 15500577.48 0.0286 0.0241

Jupiter 37727-04-11 02:09 G 15500663.41 15500663.59 15500663.78 0.0507 0.0066

Saturn 37727-04-13 21:36 G 15500666.22 15500666.40 15500666.59 0.0287 0.0035

Saturn 37727-07-11 22:05 G 15500755.27 15500755.42 15500755.57 0.0289 0.0173

Jupiter 37732-12-02 12:43 G 15502725.90 15502726.03 15502726.15 0.0520 0.0110

Mars 37733-01-22 15:50 G 15502776.99 15502777.16 15502777.32 0.1617 0.0057

Jupiter 37733-03-01 17:17 G 15502815.18 15502815.22 15502815.27 0.0518 0.0481

Mars 37735-10-25 14:38 G 15503782.99 15503783.11 15503783.23 0.1918 0.0067

Venus 37736-04-20 21:50 G 15503961.35 15503961.41 15503961.46 0.3687 0.3059

Moon 37737-06-30 06:14 G 15504396.66 15504396.76 15504396.87 0.2648 0.0555

Earth 37737-06-30 06:43 G 15504396.68 15504396.78 15504396.89 0.2652 0.0432 *

Jupiter 37739-01-27 23:17 G 15504973.29 15504973.47 15504973.65 0.0506 0.0136

Saturn 37740-02-24 10:05 G 15505365.87 15505365.92 15505365.98 0.0277 0.0247

Saturn 37740-05-22 20:38 G 15505454.24 15505454.36 15505454.48 0.0276 0.0122

Saturn 37740-08-19 07:12 G 15505542.67 15505542.80 15505542.93 0.0275 0.0003

Saturn 37740-11-15 17:45 G 15505631.12 15505631.24 15505631.35 0.0274 0.0125

Earth 37740-12-30 05:17 G 15505675.56 15505675.72 15505675.87 0.2679 0.0800

Moon 37740-12-30 06:43 G 15505675.62 15505675.78 15505675.94 0.2675 0.0482 *

Saturn 37741-02-12 04:19 G 15505719.62 15505719.68 15505719.73 0.0272 0.0247

Venus 37741-11-04 13:55 G 15505984.98 15505985.08 15505985.18 0.3687 0.1098

Mars 37742-06-14 17:45 G 15506207.16 15506207.24 15506207.33 0.1613 0.1369

Jupiter 37744-09-20 16:48 G 15507036.10 15507036.20 15507036.31 0.0520 0.0261

Jupiter 37744-12-18 21:36 G 15507125.30 15507125.40 15507125.50 0.0518 0.0330

Mars 37745-03-16 22:33 G 15507213.36 15507213.44 15507213.52 0.1924 0.1325

Venus 37747-05-21 06:00 G 15508008.65 15508008.75 15508008.86 0.3686 0.0902

Moon 37750-07-02 23:17 G 15509147.36 15509147.47 15509147.57 0.2654 0.0814

Earth 37750-07-02 23:45 G 15509147.39 15509147.49 15509147.60 0.2652 0.0853 *

Jupiter 37750-11-15 19:12 G 15509283.17 15509283.30 15509283.44 0.0505 0.0349

Jupiter 37751-02-14 07:12 G 15509373.76 15509373.80 15509373.86 0.0507 0.0485

Venus 37752-12-03 22:33 G 15510032.37 15510032.44 15510032.50 0.3686 0.2934

Earth 37754-01-02 14:53 G 15510427.05 15510427.12 15510427.19 0.2680 0.2408

Moon 37754-01-02 15:21 G 15510427.07 15510427.14 15510427.21 0.2674 0.2393 *

Jupiter 37756-07-09 21:21 G 15511346.31 15511346.39 15511346.46 0.0521 0.0409

Saturn 37756-08-30 21:36 G 15511398.22 15511398.40 15511398.58 0.0288 0.0080

Jupiter 37756-10-07 01:55 G 15511435.46 15511435.58 15511435.70 0.0519 0.0182

Saturn 37756-11-27 21:50 G 15511487.25 15511487.41 15511487.59 0.0289 0.0128

Venus 37756-12-02 10:33 G 15511491.80 15511491.94 15511492.08 0.3684 0.0858

Moon 37757-06-26 01:55 G 15511697.56 15511697.58 15511697.59 0.2647 0.2613

Uranus 37758-03-19 05:02 G 15511963.66 15511963.71 15511963.79 0.0143 0.0124

Uranus 37758-06-15 08:38 G 15512051.78 15512051.86 15512051.96 0.0143 0.0103

Uranus 37758-09-11 12:29 G 15512139.91 15512140.02 15512140.13 0.0143 0.0081

Uranus 37758-12-08 16:05 G 15512228.05 15512228.17 15512228.29 0.0143 0.0060

Uranus 37759-03-06 19:41 G 15512316.19 15512316.32 15512316.45 0.0143 0.0039

Uranus 37759-06-02 23:17 G 15512404.34 15512404.47 15512404.60 0.0143 0.0018

Uranus 37759-08-30 02:53 G 15512492.49 15512492.62 15512492.76 0.0143 0.0005

Uranus 37759-11-26 06:29 G 15512580.64 15512580.77 15512580.91 0.0143 0.0026

Uranus 37760-02-22 10:19 G 15512668.80 15512668.93 15512669.05 0.0144 0.0048

Uranus 37760-05-20 13:55 G 15512756.97 15512757.08 15512757.20 0.0144 0.0070

Uranus 37760-08-16 17:31 G 15512845.14 15512845.23 15512845.34 0.0144 0.0092

Uranus 37760-11-12 21:21 G 15512933.31 15512933.39 15512933.47 0.0144 0.0114

Uranus 37761-02-09 01:12 G 15513021.51 15513021.55 15513021.59 0.0144 0.0136

Jupiter 37762-12-03 03:36 G 15513683.50 15513683.65 15513683.81 0.0507 0.0273

Mars 37763-03-03 14:09 G 15513774.02 15513774.09 15513774.16 0.1621 0.1464

Moon 37763-07-05 16:33 G 15513898.13 15513898.19 15513898.26 0.2657 0.2054

Earth 37763-07-05 17:02 G 15513898.14 15513898.21 15513898.27 0.2652 0.2125 *

Mars 37765-12-03 06:29 G 15514779.71 15514779.77 15514779.83 0.1913 0.1597

Jupiter 37768-07-26 06:43 G 15515745.65 15515745.78 15515745.91 0.0520 0.0040

Saturn 37769-07-13 13:12 G 15516098.05 15516098.05 15516098.06 0.0276 0.0276

Saturn 37769-10-09 23:45 G 15516186.38 15516186.49 15516186.60 0.0275 0.0152

Saturn 37770-01-06 10:19 G 15516274.80 15516274.93 15516275.06 0.0274 0.0028

Saturn 37770-04-04 20:53 G 15516363.24 15516363.37 15516363.49 0.0273 0.0095

Moon 37770-06-28 18:14 G 15516448.17 15516448.26 15516448.35 0.2646 0.1497

Earth 37770-06-28 18:29 G 15516448.18 15516448.27 15516448.36 0.2652 0.1428 *

Saturn 37770-07-02 07:26 G 15516451.73 15516451.81 15516451.89 0.0272 0.0218

Neptune 37771-10-31 20:09 G 15516938.26 15516938.34 15516938.42 0.0089 0.0080

Neptune 37772-01-27 23:45 G 15517026.37 15517026.49 15517026.61 0.0089 0.0069

Neptune 37772-04-25 02:53 G 15517114.50 15517114.62 15517114.79 0.0089 0.0059

Neptune 37772-07-22 06:43 G 15517202.63 15517202.78 15517202.95 0.0089 0.0048

Mars 37772-07-23 16:19 G 15517204.01 15517204.18 15517204.34 0.1617 0.0145

Neptune 37772-10-18 10:19 G 15517290.76 15517290.93 15517291.12 0.0089 0.0037

Neptune 37773-01-14 13:55 G 15517378.90 15517379.08 15517379.27 0.0089 0.0026

Neptune 37773-04-12 17:45 G 15517467.05 15517467.24 15517467.43 0.0089 0.0015

Neptune 37773-07-09 21:07 G 15517555.19 15517555.38 15517555.58 0.0089 0.0005

Neptune 37773-10-06 00:43 G 15517643.34 15517643.53 15517643.73 0.0089 0.0007

Neptune 37774-01-02 04:05 G 15517731.49 15517731.67 15517731.87 0.0089 0.0018

Neptune 37774-03-31 07:55 G 15517819.65 15517819.83 15517820.01 0.0089 0.0028

Neptune 37774-06-27 11:17 G 15517907.80 15517907.97 15517908.15 0.0089 0.0039

Jupiter 37774-09-20 23:17 G 15517993.28 15517993.47 15517993.65 0.0506 0.0053

Neptune 37774-09-23 14:38 G 15517995.97 15517996.11 15517996.28 0.0089 0.0050

Neptune 37774-12-20 18:29 G 15518084.13 15518084.27 15518084.41 0.0089 0.0060

Neptune 37775-03-18 21:36 G 15518172.30 15518172.40 15518172.53 0.0089 0.0071

Mars 37775-04-25 14:24 G 15518209.99 15518210.10 15518210.22 0.1919 0.0218

Neptune 37775-06-15 00:57 G 15518260.49 15518260.54 15518260.64 0.0089 0.0082

Pluto 37777-06-18 09:36 G 15518994.87 15518994.90 15518994.96 0.0069 0.0065

Pluto 37777-09-14 10:33 G 15519082.86 15519082.94 15519083.02 0.0069 0.0055

Pluto 37777-12-11 11:02 G 15519170.86 15519170.96 15519171.06 0.0069 0.0044

Pluto 37778-03-09 11:31 G 15519258.87 15519258.98 15519259.10 0.0069 0.0034

Pluto 37778-06-05 12:00 G 15519346.88 15519347.00 15519347.13 0.0069 0.0024

Pluto 37778-09-01 12:43 G 15519434.90 15519435.03 15519435.16 0.0070 0.0014

Pluto 37778-11-28 13:12 G 15519522.92 15519523.05 15519523.18 0.0070 0.0003

Pluto 37779-02-24 13:41 G 15519610.94 15519611.07 15519611.20 0.0070 0.0007

Pluto 37779-05-23 14:09 G 15519698.97 15519699.09 15519699.22 0.0070 0.0018

Pluto 37779-08-19 14:38 G 15519787.00 15519787.11 15519787.24 0.0070 0.0028

Pluto 37779-11-15 15:21 G 15519875.03 15519875.14 15519875.25 0.0070 0.0039

Pluto 37780-02-11 15:50 G 15519963.08 15519963.16 15519963.26 0.0070 0.0049

Pluto 37780-05-09 16:19 G 15520051.13 15520051.18 15520051.26 0.0070 0.0060

Jupiter 37780-05-14 11:17 G 15520055.85 15520055.97 15520056.10 0.0520 0.0106

Jupiter 37780-08-11 16:05 G 15520145.13 15520145.17 15520145.22 0.0518 0.0487

Mars 37781-12-13 18:29 G 15520634.16 15520634.27 15520634.38 0.1614 0.1166

Moon 37783-07-01 11:02 G 15521198.85 15521198.96 15521199.06 0.2650 0.0224

Earth 37783-07-01 11:31 G 15521198.87 15521198.98 15521199.09 0.2652 0.0165 *

Mars 37784-09-14 22:48 G 15521640.36 15521640.45 15521640.54 0.1923 0.1149

Saturn 37786-01-17 19:55 G 15522130.17 15522130.33 15522130.50 0.0287 0.0136

Saturn 37786-04-16 20:38 G 15522219.18 15522219.36 15522219.54 0.0288 0.0072

Jupiter 37786-07-09 19:55 G 15522303.16 15522303.33 15522303.51 0.0506 0.0152

Saturn 37786-07-14 20:38 G 15522308.33 15522308.36 15522308.42 0.0289 0.0280

Earth 37786-12-31 12:14 G 15522477.84 15522478.01 15522478.17 0.2679 0.0204

Moon 37786-12-31 13:41 G 15522477.91 15522478.07 15522478.24 0.2675 0.0130 *

Jupiter 37792-03-02 15:07 G 15524366.03 15524366.13 15524366.24 0.0520 0.0265

Jupiter 37792-05-30 19:55 G 15524455.23 15524455.33 15524455.43 0.0518 0.0326

Venus 37792-11-25 19:12 G 15524634.22 15524634.30 15524634.38 0.3687 0.2365

Moon 37796-07-03 03:50 G 15525949.56 15525949.66 15525949.76 0.2654 0.0962

Earth 37796-07-03 04:33 G 15525949.59 15525949.69 15525949.79 0.2652 0.1108 *

Jupiter 37798-04-27 17:02 G 15526613.08 15526613.21 15526613.34 0.0506 0.0352

Venus 37798-06-11 11:31 G 15526657.87 15526657.98 15526658.08 0.3686 0.0399

Jupiter 37798-07-27 05:02 G 15526703.66 15526703.71 15526703.77 0.0507 0.0484

Uranus 37798-10-23 22:05 G 15526792.33 15526792.42 15526792.53 0.0135 0.0113

Uranus 37799-01-20 05:31 G 15526880.59 15526880.73 15526880.88 0.0135 0.0087

Saturn 37799-02-27 03:07 G 15526918.53 15526918.63 15526918.73 0.0276 0.0180

Uranus 37799-04-18 12:43 G 15526968.86 15526969.03 15526969.20 0.0135 0.0060

Saturn 37799-05-26 13:41 G 15527006.94 15527007.07 15527007.20 0.0275 0.0056

Uranus 37799-07-15 19:55 G 15527057.14 15527057.33 15527057.51 0.0135 0.0034

Saturn 37799-08-23 00:14 G 15527095.38 15527095.51 15527095.64 0.0274 0.0068

Uranus 37799-10-12 02:53 G 15527145.43 15527145.62 15527145.81 0.0135 0.0009

Saturn 37799-11-19 10:33 G 15527183.85 15527183.94 15527184.04 0.0273 0.0191

Uranus 37800-01-08 10:05 G 15527233.73 15527233.92 15527234.11 0.0135 0.0017

Uranus 37800-04-06 17:02 G 15527322.03 15527322.21 15527322.39 0.0135 0.0043

Uranus 37800-07-04 00:00 G 15527410.34 15527410.50 15527410.66 0.0135 0.0068

Uranus 37800-09-30 06:43 G 15527498.65 15527498.78 15527498.92 0.0135 0.0094

Uranus 37800-12-27 13:26 G 15527586.99 15527587.06 15527587.16 0.0135 0.0119

Moon 37803-06-28 06:14 G 15528499.72 15528499.76 15528499.81 0.2646 0.2394

Earth 37803-06-28 06:14 G 15528499.72 15528499.76 15528499.80 0.2653 0.2425 *

Jupiter 37803-12-21 19:41 G 15528676.24 15528676.32 15528676.39 0.0521 0.0414

Venus 37803-12-27 03:50 G 15528681.56 15528681.66 15528681.75 0.3686 0.1625

Jupiter 37804-03-20 00:14 G 15528765.39 15528765.51 15528765.63 0.0519 0.0176

Mars 37805-06-04 06:29 G 15529206.73 15529206.77 15529206.81 0.1913 0.1750

Venus 37807-12-25 06:14 G 15530140.65 15530140.76 15530140.86 0.3684 0.2551

Moon 37809-07-06 21:36 G 15530700.35 15530700.40 15530700.44 0.2658 0.2410

Earth 37809-07-06 21:36 G 15530700.36 15530700.40 15530700.45 0.2652 0.2385 *

Venus 37809-07-11 20:09 G 15530705.34 15530705.34 15530705.34 0.3685 0.3678

Jupiter 37810-05-16 01:41 G 15531013.41 15531013.57 15531013.72 0.0507 0.0274

Mars 37812-01-23 17:02 G 15531631.05 15531631.21 15531631.37 0.1617 0.0357

Venus 37813-07-10 11:31 G 15532164.88 15532164.98 15532165.09 0.3685 0.2512

Mars 37814-10-25 14:38 G 15532636.99 15532637.11 15532637.22 0.1918 0.0385

Saturn 37815-06-07 19:12 G 15532862.16 15532862.30 15532862.44 0.0287 0.0189

Saturn 37815-09-04 19:41 G 15532951.14 15532951.32 15532951.51 0.0288 0.0019

Saturn 37815-12-02 19:55 G 15533040.23 15533040.33 15533040.45 0.0289 0.0227

Jupiter 37816-01-07 04:33 G 15533075.57 15533075.69 15533075.82 0.0520 0.0034

Moon 37816-06-29 23:02 G 15533250.36 15533250.46 15533250.55 0.2646 0.1182

Earth 37816-06-29 23:17 G 15533250.37 15533250.47 15533250.56 0.2652 0.1171 *

Moon 37819-12-30 11:17 G 15534528.94 15534528.97 15534528.99 0.2677 0.2633

Mars 37821-06-14 19:12 G 15535061.16 15535061.30 15535061.43 0.1614 0.0962

Jupiter 37822-03-03 21:50 G 15535323.23 15535323.41 15535323.59 0.0506 0.0062

Mars 37824-03-16 22:33 G 15536067.34 15536067.44 15536067.53 0.1923 0.1017

Jupiter 37827-10-26 09:21 G 15537385.77 15537385.89 15537386.02 0.0520 0.0115

Jupiter 37828-01-23 14:24 G 15537475.05 15537475.10 15537475.14 0.0518 0.0479

Saturn 37828-07-17 06:00 G 15537650.67 15537650.75 15537650.84 0.0276 0.0212

Saturn 37828-10-13 16:33 G 15537739.07 15537739.19 15537739.32 0.0275 0.0087

Saturn 37829-01-10 03:07 G 15537827.50 15537827.63 15537827.76 0.0274 0.0036

Saturn 37829-04-08 13:41 G 15537915.96 15537916.07 15537916.18 0.0273 0.0159

Moon 37829-07-02 15:36 G 15538001.04 15538001.15 15538001.26 0.2651 0.0044

Earth 37829-07-02 16:19 G 15538001.07 15538001.18 15538001.29 0.2652 0.0108 *

Earth 37833-01-01 19:12 G 15539280.14 15539280.30 15539280.46 0.2679 0.0396

Moon 37833-01-01 20:24 G 15539280.19 15539280.35 15539280.51 0.2675 0.0651 *

Jupiter 37833-12-20 17:31 G 15539633.06 15539633.23 15539633.41 0.0506 0.0156

Jupiter 37839-08-14 14:09 G 15541695.98 15541696.09 15541696.20 0.0521 0.0256

Jupiter 37839-11-11 18:57 G 15541785.19 15541785.29 15541785.38 0.0519 0.0335

Uranus 37842-01-11 09:07 G 15542576.86 15542576.88 15542576.92 0.0143 0.0138

Uranus 37842-04-09 12:43 G 15542664.96 15542665.03 15542665.11 0.0143 0.0117

Moon 37842-07-05 08:38 G 15542751.77 15542751.86 15542751.96 0.2655 0.1342

Earth 37842-07-05 09:21 G 15542751.80 15542751.89 15542751.98 0.2652 0.1363 *

Uranus 37842-07-06 16:19 G 15542753.09 15542753.18 15542753.28 0.0143 0.0096

Uranus 37842-10-02 19:55 G 15542841.22 15542841.33 15542841.45 0.0143 0.0075

Uranus 37842-12-29 23:31 G 15542929.36 15542929.48 15542929.61 0.0143 0.0054

Uranus 37843-03-28 03:07 G 15543017.50 15543017.63 15543017.76 0.0143 0.0033

Uranus 37843-06-24 06:43 G 15543105.65 15543105.78 15543105.92 0.0143 0.0012

Uranus 37843-09-20 10:33 G 15543193.80 15543193.94 15543194.07 0.0143 0.0011

Uranus 37843-12-17 14:09 G 15543281.96 15543282.09 15543282.22 0.0143 0.0032

Venus 37843-12-19 00:43 G 15543283.51 15543283.53 15543283.55 0.3688 0.3607

Uranus 37844-03-14 17:45 G 15543370.12 15543370.24 15543370.36 0.0143 0.0054

Uranus 37844-06-10 21:21 G 15543458.28 15543458.39 15543458.51 0.0144 0.0076

Uranus 37844-09-07 01:12 G 15543546.45 15543546.55 15543546.65 0.0144 0.0098

Saturn 37844-10-24 16:33 G 15543594.11 15543594.19 15543594.29 0.0286 0.0252

Uranus 37844-12-04 04:48 G 15543634.63 15543634.70 15543634.78 0.0144 0.0120

Saturn 37845-01-21 17:31 G 15543683.04 15543683.23 15543683.41 0.0287 0.0045

Uranus 37845-03-02 08:38 G 15543722.85 15543722.86 15543722.88 0.0144 0.0142

Saturn 37845-04-20 17:45 G 15543772.09 15543772.24 15543772.40 0.0289 0.0164

Jupiter 37845-10-08 14:24 G 15543942.97 15543943.10 15543943.23 0.0505 0.0360

Jupiter 37846-01-07 02:24 G 15544033.54 15544033.60 15544033.66 0.0507 0.0475

Moon 37849-06-28 11:02 G 15545301.90 15545301.96 15545302.02 0.2646 0.2188

Earth 37849-06-28 11:02 G 15545301.90 15545301.96 15545302.02 0.2653 0.2174 *

Venus 37849-07-03 16:48 G 15545307.11 15545307.20 15545307.30 0.3687 0.1664

Jupiter 37851-06-02 18:14 G 15546006.18 15546006.26 15546006.33 0.0521 0.0414

Mars 37851-07-24 17:45 G 15546058.08 15546058.24 15546058.39 0.1617 0.0562

Jupiter 37851-08-30 22:48 G 15546095.33 15546095.45 15546095.57 0.0519 0.0176

Neptune 37852-02-22 12:14 G 15546270.97 15546271.01 15546271.07 0.0089 0.0082

Neptune 37852-05-20 13:26 G 15546359.00 15546359.06 15546359.14 0.0089 0.0075

Neptune 37852-08-16 14:53 G 15546447.04 15546447.12 15546447.21 0.0089 0.0067

Neptune 37852-11-12 16:05 G 15546535.08 15546535.17 15546535.28 0.0089 0.0060

Neptune 37853-02-08 17:17 G 15546623.13 15546623.22 15546623.34 0.0089 0.0053

Neptune 37853-05-07 18:57 G 15546711.17 15546711.29 15546711.40 0.0089 0.0045

Neptune 37853-08-03 20:09 G 15546799.22 15546799.34 15546799.46 0.0089 0.0038

Neptune 37853-10-30 21:21 G 15546887.27 15546887.39 15546887.52 0.0089 0.0031

Neptune 37854-01-26 22:48 G 15546975.32 15546975.45 15546975.58 0.0089 0.0023

Neptune 37854-04-25 00:14 G 15547063.38 15547063.51 15547063.64 0.0089 0.0016

Mars 37854-04-25 14:24 G 15547063.99 15547064.10 15547064.22 0.1918 0.0539

Neptune 37854-07-22 01:26 G 15547151.43 15547151.56 15547151.69 0.0089 0.0008

Neptune 37854-10-18 02:53 G 15547239.48 15547239.62 15547239.75 0.0089 0.0002

Neptune 37855-01-14 04:05 G 15547327.54 15547327.67 15547327.80 0.0089 0.0007

Venus 37855-01-17 09:07 G 15547330.77 15547330.88 15547330.98 0.3686 0.0329

Neptune 37855-04-12 05:17 G 15547415.59 15547415.72 15547415.86 0.0089 0.0015

Moon 37855-07-08 02:24 G 15547502.57 15547502.60 15547502.62 0.2659 0.2577

Earth 37855-07-08 02:24 G 15547502.60 15547502.60 15547502.61 0.2652 0.2645 *

Neptune 37855-07-09 06:43 G 15547503.65 15547503.78 15547503.91 0.0089 0.0021

Neptune 37855-10-05 08:09 G 15547591.71 15547591.84 15547591.96 0.0088 0.0029

Neptune 37856-01-01 09:21 G 15547679.77 15547679.89 15547680.01 0.0088 0.0036

Neptune 37856-03-29 10:33 G 15547767.83 15547767.94 15547768.06 0.0088 0.0044

Neptune 37856-06-25 12:00 G 15547855.89 15547856.00 15547856.11 0.0088 0.0051

Neptune 37856-09-21 13:12 G 15547943.96 15547944.05 15547944.16 0.0088 0.0059

Neptune 37856-12-18 14:38 G 15548032.03 15548032.11 15548032.20 0.0088 0.0066

Neptune 37857-03-16 15:50 G 15548120.10 15548120.16 15548120.24 0.0088 0.0074

Neptune 37857-06-12 17:17 G 15548208.17 15548208.22 15548208.28 0.0088 0.0081

Neptune 37857-09-08 18:29 G 15548296.27 15548296.27 15548296.29 0.0088 0.0088

Jupiter 37857-10-25 23:45 G 15548343.34 15548343.49 15548343.64 0.0507 0.0278

Saturn 37857-12-04 09:07 G 15548382.82 15548382.88 15548382.94 0.0277 0.0244

Saturn 37858-03-02 19:41 G 15548471.20 15548471.32 15548471.44 0.0276 0.0119

Saturn 37858-05-30 06:14 G 15548559.63 15548559.76 15548559.89 0.0275 0.0006

Saturn 37858-08-26 16:48 G 15548648.08 15548648.20 15548648.31 0.0273 0.0129

Saturn 37858-11-23 03:07 G 15548736.59 15548736.63 15548736.68 0.0272 0.0251

Venus 37860-08-02 01:26 G 15549354.48 15549354.56 15549354.64 0.3686 0.2354

Mars 37860-12-13 19:55 G 15549488.18 15549488.33 15549488.47 0.1614 0.0755

Moon 37862-07-01 03:36 G 15550052.55 15550052.65 15550052.75 0.2647 0.0970

Earth 37862-07-01 03:50 G 15550052.56 15550052.66 15550052.77 0.2652 0.0921 *

Jupiter 37863-06-19 03:07 G 15550405.50 15550405.63 15550405.76 0.0519 0.0028

Pluto 37863-07-24 23:31 G 15550441.41 15550441.48 15550441.60 0.0075 0.0066

Mars 37863-09-15 22:33 G 15550494.34 15550494.44 15550494.54 0.1923 0.0846

Pluto 37863-10-21 02:24 G 15550529.46 15550529.60 15550529.77 0.0075 0.0046

Pluto 37864-01-17 05:02 G 15550617.54 15550617.71 15550617.91 0.0075 0.0027

Pluto 37864-04-14 07:55 G 15550705.63 15550705.83 15550706.03 0.0075 0.0007

Pluto 37864-07-11 10:33 G 15550793.74 15550793.94 15550794.13 0.0075 0.0012

Venus 37864-07-31 07:26 G 15550813.66 15550813.81 15550813.95 0.3684 0.0832

Pluto 37864-10-07 12:43 G 15550881.87 15550882.03 15550882.23 0.0074 0.0032

Pluto 37865-01-03 15:21 G 15550970.01 15550970.14 15550970.30 0.0074 0.0050

Pluto 37865-04-01 17:45 G 15551058.19 15551058.24 15551058.33 0.0074 0.0069

Earth 37865-12-30 16:19 G 15551331.10 15551331.18 15551331.27 0.2679 0.2238

Moon 37865-12-30 18:14 G 15551331.15 15551331.26 15551331.37 0.2676 0.1997 *

Jupiter 37869-08-13 20:09 G 15552653.16 15552653.34 15552653.53 0.0506 0.0071

Saturn 37874-06-10 15:36 G 15554414.98 15554415.15 15554415.33 0.0287 0.0105

Saturn 37874-09-07 16:05 G 15554504.00 15554504.17 15554504.35 0.0289 0.0104

Jupiter 37875-04-07 07:41 G 15554715.69 15554715.82 15554715.94 0.0520 0.0122

Moon 37875-07-03 20:24 G 15554803.24 15554803.35 15554803.45 0.2651 0.0309

Earth 37875-07-03 20:53 G 15554803.27 15554803.37 15554803.48 0.2652 0.0366 *

Jupiter 37875-07-05 12:14 G 15554804.97 15554805.01 15554805.07 0.0518 0.0471

Earth 37879-01-03 02:09 G 15556082.44 15556082.59 15556082.74 0.2679 0.0993

Moon 37879-01-03 03:07 G 15556082.47 15556082.63 15556082.78 0.2674 0.1037 *

Jupiter 37881-06-01 16:33 G 15556963.01 15556963.19 15556963.37 0.0506 0.0140

Uranus 37882-08-17 21:21 G 15557405.39 15557405.39 15557405.43 0.0136 0.0135

Uranus 37882-11-14 05:02 G 15557493.60 15557493.71 15557493.83 0.0135 0.0108

Uranus 37883-02-10 12:14 G 15557581.86 15557582.01 15557582.17 0.0135 0.0081

Uranus 37883-05-09 19:26 G 15557670.14 15557670.31 15557670.49 0.0135 0.0055

Uranus 37883-08-06 02:38 G 15557758.43 15557758.61 15557758.80 0.0135 0.0029

Uranus 37883-11-02 09:50 G 15557846.72 15557846.91 15557847.10 0.0135 0.0003

Uranus 37884-01-29 16:48 G 15557935.02 15557935.20 15557935.39 0.0135 0.0023

Uranus 37884-04-26 23:45 G 15558023.32 15558023.49 15558023.67 0.0135 0.0049

Uranus 37884-07-24 06:43 G 15558111.63 15558111.78 15558111.94 0.0135 0.0074

Uranus 37884-10-20 13:41 G 15558199.95 15558200.07 15558200.20 0.0135 0.0099

Uranus 37885-01-16 20:38 G 15558288.29 15558288.36 15558288.43 0.0135 0.0124

Jupiter 37887-01-24 12:29 G 15559025.91 15559026.02 15559026.13 0.0521 0.0262

Jupiter 37887-04-23 17:02 G 15559115.12 15559115.21 15559115.31 0.0519 0.0331

Saturn 37887-07-20 22:19 G 15559203.32 15559203.43 15559203.54 0.0275 0.0154

Saturn 37887-10-17 08:53 G 15559291.73 15559291.87 15559292.00 0.0274 0.0032

Saturn 37888-01-13 19:12 G 15559380.18 15559380.30 15559380.43 0.0273 0.0093

Saturn 37888-04-11 05:45 G 15559468.66 15559468.74 15559468.82 0.0272 0.0215

Moon 37888-07-05 13:41 G 15559553.98 15559554.07 15559554.15 0.2656 0.1512

Earth 37888-07-05 14:09 G 15559554.00 15559554.09 15559554.17 0.2652 0.1626 *

Mars 37891-01-22 18:14 G 15560485.11 15560485.26 15560485.40 0.1618 0.0757

Jupiter 37893-03-20 12:29 G 15561272.89 15561273.02 15561273.15 0.0505 0.0356

Jupiter 37893-06-19 00:29 G 15561363.46 15561363.52 15561363.58 0.0507 0.0478

Mars 37893-10-24 14:24 G 15561491.00 15561491.10 15561491.21 0.1918 0.0695

Moon 37895-06-29 15:36 G 15562104.08 15562104.15 15562104.23 0.2645 0.1874

Earth 37895-06-29 15:36 G 15562104.08 15562104.15 15562104.23 0.2653 0.1918 *

Jupiter 37898-11-12 17:17 G 15563336.14 15563336.22 15563336.30 0.0521 0.0403

Jupiter 37899-02-09 21:50 G 15563425.29 15563425.41 15563425.53 0.0519 0.0189

Mars 37900-06-14 20:24 G 15563915.20 15563915.35 15563915.51 0.1614 0.0551

Venus 37900-07-25 22:19 G 15563956.37 15563956.43 15563956.49 0.3687 0.2912

Mars 37903-03-17 22:33 G 15564921.33 15564921.44 15564921.55 0.1923 0.0681

Saturn 37903-10-29 12:14 G 15565146.86 15565147.01 15565147.16 0.0287 0.0176

Saturn 37904-01-26 12:57 G 15565235.85 15565236.04 15565236.22 0.0288 0.0032

Saturn 37904-04-24 13:12 G 15565324.95 15565325.05 15565325.15 0.0289 0.0240

Jupiter 37905-04-07 21:36 G 15565673.25 15565673.40 15565673.56 0.0507 0.0278

Venus 37906-02-08 14:24 G 15565980.00 15565980.10 15565980.21 0.3687 0.0961

Moon 37908-07-02 08:09 G 15566854.74 15566854.84 15566854.94 0.2648 0.0750

Earth 37908-07-02 08:38 G 15566854.76 15566854.86 15566854.97 0.2652 0.0658 *

Jupiter 37910-11-30 01:55 G 15567735.45 15567735.58 15567735.71 0.0519 0.0032

Venus 37911-08-25 06:43 G 15568003.68 15568003.78 15568003.88 0.3686 0.1048

Earth 37912-01-01 23:31 G 15568133.35 15568133.48 15568133.60 0.2679 0.1638

Moon 37912-01-02 01:12 G 15568133.41 15568133.55 15568133.69 0.2677 0.1392 *

Saturn 37916-12-08 00:57 G 15569935.45 15569935.54 15569935.63 0.0276 0.0191

Jupiter 37917-01-24 18:57 G 15569983.10 15569983.29 15569983.47 0.0507 0.0081

Saturn 37917-03-06 11:31 G 15570023.85 15570023.98 15570024.11 0.0275 0.0066

Venus 37917-03-09 23:02 G 15570027.41 15570027.46 15570027.52 0.3686 0.3100

Saturn 37917-06-02 22:05 G 15570112.29 15570112.42 15570112.55 0.0274 0.0058

Saturn 37917-08-30 08:38 G 15570200.76 15570200.86 15570200.95 0.0273 0.0181

Venus 37921-03-08 08:38 G 15571486.72 15571486.86 15571487.00 0.3684 0.0877

Moon 37921-07-05 00:57 G 15571605.44 15571605.54 15571605.65 0.2652 0.0496

Earth 37921-07-05 01:41 G 15571605.47 15571605.57 15571605.68 0.2652 0.0609 *

Jupiter 37922-09-18 06:29 G 15572045.64 15572045.77 15572045.89 0.0520 0.0116

Jupiter 37922-12-16 11:02 G 15572134.92 15572134.96 15572135.01 0.0518 0.0475

Earth 37925-01-04 09:07 G 15572884.75 15572884.88 15572885.01 0.2680 0.1585

Moon 37925-01-04 09:36 G 15572884.78 15572884.90 15572885.03 0.2673 0.1681 *

Uranus 37926-02-01 17:02 G 15573278.17 15573278.21 15573278.27 0.0143 0.0130

Uranus 37926-04-30 20:38 G 15573366.28 15573366.36 15573366.45 0.0143 0.0109

Uranus 37926-07-28 00:14 G 15573454.41 15573454.51 15573454.62 0.0143 0.0088

Uranus 37926-10-24 03:50 G 15573542.54 15573542.66 15573542.78 0.0143 0.0067

Uranus 37927-01-20 07:26 G 15573630.68 15573630.81 15573630.94 0.0143 0.0046

Uranus 37927-04-18 11:02 G 15573718.83 15573718.96 15573719.09 0.0143 0.0024

Uranus 37927-07-15 14:38 G 15573806.98 15573807.11 15573807.24 0.0143 0.0003

Uranus 37927-10-11 18:14 G 15573895.13 15573895.26 15573895.39 0.0143 0.0019

Uranus 37928-01-07 21:50 G 15573983.29 15573983.41 15573983.54 0.0143 0.0041

Uranus 37928-04-05 01:26 G 15574071.45 15574071.56 15574071.69 0.0143 0.0063

Uranus 37928-07-02 05:17 G 15574159.61 15574159.72 15574159.83 0.0144 0.0084

Uranus 37928-09-28 09:07 G 15574247.79 15574247.88 15574247.97 0.0144 0.0106

Jupiter 37928-11-12 15:36 G 15574292.97 15574293.15 15574293.33 0.0506 0.0126

Uranus 37928-12-25 12:43 G 15574335.97 15574336.03 15574336.09 0.0144 0.0128

Mars 37930-07-24 18:57 G 15574912.16 15574912.29 15574912.42 0.1618 0.0971

Saturn 37933-03-17 09:36 G 15575878.81 15575878.90 15575879.01 0.0287 0.0242

Mars 37933-04-25 14:24 G 15575918.00 15575918.10 15575918.21 0.1918 0.0857

Saturn 37933-06-14 10:19 G 15575967.75 15575967.93 15575968.12 0.0288 0.0035

Saturn 37933-09-11 10:48 G 15576056.80 15576056.95 15576057.10 0.0289 0.0174

Jupiter 37934-07-07 10:48 G 15576355.85 15576355.95 15576356.06 0.0521 0.0264

Moon 37934-07-07 18:29 G 15576356.19 15576356.27 15576356.34 0.2657 0.1871

Earth 37934-07-07 18:43 G 15576356.21 15576356.28 15576356.36 0.2652 0.1884 *

Jupiter 37934-10-04 15:36 G 15576445.05 15576445.15 15576445.25 0.0519 0.0328

Neptune 37936-05-02 14:24 G 15577021.08 15577021.10 15577021.13 0.0089 0.0088

Neptune 37936-07-29 18:00 G 15577109.16 15577109.25 15577109.35 0.0089 0.0077

Neptune 37936-10-25 21:50 G 15577197.28 15577197.41 15577197.53 0.0089 0.0066

Neptune 37937-01-22 00:57 G 15577285.41 15577285.54 15577285.71 0.0089 0.0056

Neptune 37937-04-20 04:33 G 15577373.54 15577373.69 15577373.87 0.0089 0.0045

Neptune 37937-07-17 08:24 G 15577461.68 15577461.85 15577462.04 0.0089 0.0034

Neptune 37937-10-13 12:00 G 15577549.82 15577550.00 15577550.19 0.0089 0.0023

Neptune 37938-01-09 15:36 G 15577637.96 15577638.15 15577638.35 0.0089 0.0012

Neptune 37938-04-07 19:12 G 15577726.11 15577726.30 15577726.50 0.0089 0.0002

Neptune 37938-07-04 22:48 G 15577814.26 15577814.45 15577814.64 0.0089 0.0010

Neptune 37938-10-01 02:09 G 15577902.41 15577902.59 15577902.79 0.0089 0.0021

Neptune 37938-12-28 06:00 G 15577990.57 15577990.75 15577990.93 0.0089 0.0031

Neptune 37939-03-26 09:21 G 15578078.72 15578078.89 15578079.06 0.0089 0.0042

Neptune 37939-06-22 12:43 G 15578166.89 15578167.03 15578167.20 0.0089 0.0053

Neptune 37939-09-18 16:05 G 15578255.05 15578255.17 15578255.32 0.0089 0.0064

Mars 37939-12-14 21:07 G 15578342.22 15578342.38 15578342.54 0.1614 0.0344

Neptune 37939-12-15 19:41 G 15578343.23 15578343.32 15578343.44 0.0089 0.0074

Neptune 37940-03-12 23:02 G 15578431.43 15578431.46 15578431.54 0.0089 0.0085

Jupiter 37940-08-31 11:45 G 15578602.86 15578602.99 15578603.14 0.0505 0.0335

Jupiter 37940-11-30 00:00 G 15578693.47 15578693.50 15578693.53 0.0507 0.0500

Moon 37941-06-30 20:24 G 15578906.27 15578906.35 15578906.43 0.2646 0.1715

Earth 37941-06-30 20:24 G 15578906.27 15578906.35 15578906.43 0.2653 0.1662 *

Mars 37942-09-15 22:33 G 15579348.33 15579348.44 15579348.55 0.1923 0.0538

Jupiter 37946-04-25 15:36 G 15580666.08 15580666.15 15580666.23 0.0521 0.0405

Saturn 37946-04-27 03:07 G 15580667.57 15580667.63 15580667.71 0.0276 0.0230

Jupiter 37946-07-23 20:24 G 15580755.23 15580755.35 15580755.47 0.0519 0.0188

Saturn 37946-07-24 13:55 G 15580755.96 15580756.08 15580756.20 0.0275 0.0104

Saturn 37946-10-21 00:14 G 15580844.38 15580844.51 15580844.65 0.0274 0.0022

Saturn 37947-01-17 10:48 G 15580932.84 15580932.95 15580933.06 0.0273 0.0143

Saturn 37947-04-15 21:21 G 15581021.37 15581021.39 15581021.42 0.0272 0.0265

Mars 37952-02-06 06:43 G 15582778.77 15582778.78 15582778.78 0.1928 0.1917

Jupiter 37952-09-17 20:09 G 15583003.19 15583003.34 15583003.50 0.0507 0.0288

Moon 37954-07-03 12:43 G 15583656.93 15583657.03 15583657.14 0.2649 0.0451

Earth 37954-07-03 13:26 G 15583656.95 15583657.06 15583657.16 0.2652 0.0408 *

Venus 37957-03-01 19:55 G 15584629.25 15584629.33 15584629.41 0.3687 0.2211

Earth 37958-01-02 06:29 G 15584935.62 15584935.77 15584935.92 0.2679 0.1029

Moon 37958-01-02 07:55 G 15584935.68 15584935.83 15584935.99 0.2676 0.0891 *

Jupiter 37958-05-12 01:12 G 15585065.43 15585065.55 15585065.68 0.0520 0.0048

Venus 37962-09-15 12:00 G 15586652.90 15586653.00 15586653.11 0.3686 0.0270

Saturn 37962-11-01 06:14 G 15586699.59 15586699.76 15586699.93 0.0287 0.0113

Saturn 37963-01-29 06:43 G 15586788.61 15586788.78 15586788.96 0.0288 0.0096

Jupiter 37964-07-06 17:17 G 15587313.04 15587313.22 15587313.41 0.0506 0.0089

Uranus 37966-09-08 05:02 G 15588106.66 15588106.71 15588106.79 0.0136 0.0127

Uranus 37966-12-05 12:29 G 15588194.90 15588195.02 15588195.16 0.0135 0.0100

Uranus 37967-03-03 19:41 G 15588283.17 15588283.32 15588283.49 0.0135 0.0074

Uranus 37967-05-31 02:53 G 15588371.45 15588371.62 15588371.81 0.0135 0.0047

Moon 37967-07-06 05:45 G 15588407.64 15588407.74 15588407.84 0.2653 0.0778

Earth 37967-07-06 06:29 G 15588407.67 15588407.77 15588407.87 0.2652 0.0868 *

Uranus 37967-08-27 10:05 G 15588459.74 15588459.92 15588460.11 0.0135 0.0021

Uranus 37967-11-23 17:17 G 15588548.03 15588548.22 15588548.41 0.0135 0.0005

Uranus 37968-02-20 00:14 G 15588636.33 15588636.51 15588636.70 0.0135 0.0031

Venus 37968-03-31 04:19 G 15588676.59 15588676.68 15588676.77 0.3686 0.1777

Uranus 37968-05-18 07:26 G 15588724.64 15588724.81 15588724.98 0.0135 0.0056

Uranus 37968-08-14 14:09 G 15588812.95 15588813.09 15588813.25 0.0135 0.0082

Uranus 37968-11-10 21:07 G 15588901.27 15588901.38 15588901.50 0.0135 0.0107

Uranus 37969-02-07 03:50 G 15588989.64 15588989.66 15588989.71 0.0135 0.0132

Mars 37970-01-22 19:41 G 15589339.21 15589339.32 15589339.43 0.1618 0.1178

Jupiter 37970-02-28 05:17 G 15589375.60 15589375.72 15589375.85 0.0520 0.0108

Jupiter 37970-05-28 10:05 G 15589464.88 15589464.92 15589464.96 0.0518 0.0484

Earth 37971-01-05 16:05 G 15589687.07 15589687.17 15589687.26 0.2680 0.2175

Moon 37971-01-05 16:33 G 15589687.10 15589687.19 15589687.28 0.2673 0.2220 *

Venus 37972-03-29 04:05 G 15590135.57 15590135.67 15590135.78 0.3684 0.2570

Mars 37972-10-24 14:24 G 15590345.01 15590345.10 15590345.20 0.1918 0.1022

Saturn 37975-09-14 05:31 G 15591399.71 15591399.73 15591399.76 0.0277 0.0271

Saturn 37975-12-11 16:05 G 15591488.06 15591488.17 15591488.28 0.0276 0.0145

Saturn 37976-03-09 02:38 G 15591576.48 15591576.61 15591576.74 0.0275 0.0020

Jupiter 37976-04-24 14:24 G 15591622.92 15591623.10 15591623.29 0.0506 0.0111

Saturn 37976-06-05 13:12 G 15591664.93 15591665.05 15591665.17 0.0274 0.0104

Saturn 37976-09-01 23:45 G 15591753.42 15591753.49 15591753.56 0.0273 0.0227

Venus 37977-10-13 09:36 G 15592159.80 15592159.90 15592160.01 0.3685 0.2542

Mars 37979-06-14 21:50 G 15592769.24 15592769.41 15592769.57 0.1614 0.0144

Moon 37980-07-07 23:17 G 15593158.40 15593158.47 15593158.53 0.2658 0.2070

Earth 37980-07-07 23:31 G 15593158.42 15593158.48 15593158.54 0.2652 0.2140 *

Jupiter 37981-12-17 09:50 G 15593685.80 15593685.91 15593686.02 0.0520 0.0253

Jupiter 37982-03-16 14:38 G 15593775.01 15593775.11 15593775.20 0.0518 0.0338

Mars 37982-03-16 22:33 G 15593775.32 15593775.44 15593775.55 0.1923 0.0381

Moon 37987-07-02 00:57 G 15595708.44 15595708.54 15595708.63 0.2647 0.1381

Earth 37987-07-02 01:12 G 15595708.46 15595708.55 15595708.64 0.2652 0.1406 *

Jupiter	**37988-02-11 11:17**	**G**	**15595932.82**	**15595932.97**	**15595933.11**	**0.0506**	**0.0316**	
Mars	**37988-11-03 23:45**	**G**	**15596199.42**	**15596199.49**	**15596199.56**	**0.1611**	**0.1452**	
Mars	**37991-08-07 06:43**	**G**	**15597205.73**	**15597205.78**	**15597205.82**	**0.1927**	**0.1759**	
Saturn	**37992-03-20 03:07**	**G**	**15597431.49**	**15597431.63**	**15597431.77**	**0.0287**	**0.0184**	
Saturn	**37992-06-17 03:36**	**G**	**15597520.47**	**15597520.65**	**15597520.84**	**0.0288**	**0.0024**	
Saturn	**37992-09-14 04:05**	**G**	**15597609.56**	**15597609.67**	**15597609.78**	**0.0289**	**0.0232**	
Jupiter	**37993-10-05 14:24**	**G**	**15597996.02**	**15597996.10**	**15597996.18**	**0.0521**	**0.0400**	
Jupiter	**37994-01-02 18:57**	**G**	**15598085.18**	**15598085.29**	**15598085.41**	**0.0519**	**0.0192**	
Jupiter	**38000-02-28 19:55**	**G**	**15600333.19**	**15600333.33**	**15600333.48**	**0.0507**	**0.0315**	
Moon	**38000-07-03 17:31**	**G**	**15600459.12**	**15600459.23**	**15600459.34**	**0.2649**	**0.0280**	
Earth	**38000-07-03 18:00**	**G**	**15600459.15**	**15600459.25**	**15600459.36**	**0.2652**	**0.0180**	*****

39TH MILLENNIUM CE

This is a list of transits of Mercury in the 39th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	**38004-01-03 13:26**	**G**	**15601737.90**	**15601738.06**	**15601738.22**	**0.2679**	**0.0430**	
Moon	**38004-01-03 14:38**	**G**	**15601737.94**	**15601738.11**	**15601738.28**	**0.2674**	**0.0190**	*****
Saturn	**38005-04-29 18:14**	**G**	**15602220.16**	**15602220.26**	**15602220.35**	**0.0276**	**0.0187**	
Saturn	**38005-07-27 04:33**	**G**	**15602308.57**	**15602308.69**	**15602308.82**	**0.0275**	**0.0062**	
Jupiter	**38005-10-22 00:00**	**G**	**15602395.37**	**15602395.50**	**15602395.62**	**0.0520**	**0.0053**	
Saturn	**38005-10-23 15:07**	**G**	**15602397.01**	**15602397.13**	**15602397.26**	**0.0274**	**0.0063**	
Saturn	**38006-01-20 01:41**	**G**	**15602485.48**	**15602485.57**	**15602485.67**	**0.0273**	**0.0186**	
Venus	**38008-03-23 01:26**	**G**	**15603278.53**	**15603278.56**	**15603278.59**	**0.3688**	**0.3462**	

Mars 38009-07-23 20:09 G 15603766.25 15603766.34 15603766.42 0.1618 0.1372

Uranus 38009-11-25 21:36 G 15603891.40 15603891.40 15603891.41 0.0143 0.0142

Uranus 38010-02-22 00:57 G 15603979.48 15603979.54 15603979.62 0.0143 0.0122

Uranus 38010-05-21 04:33 G 15604067.60 15604067.69 15604067.79 0.0143 0.0101

Uranus 38010-08-17 08:09 G 15604155.73 15604155.84 15604155.95 0.0143 0.0080

Uranus 38010-11-13 11:45 G 15604243.87 15604243.99 15604244.11 0.0143 0.0059

Uranus 38011-02-09 15:21 G 15604332.01 15604332.14 15604332.27 0.0143 0.0037

Uranus 38011-05-08 18:57 G 15604420.16 15604420.29 15604420.42 0.0143 0.0016

Uranus 38011-08-04 22:33 G 15604508.31 15604508.44 15604508.58 0.0143 0.0006

Uranus 38011-11-01 02:09 G 15604596.46 15604596.59 15604596.72 0.0143 0.0027

Jupiter 38011-12-17 16:19 G 15604643.00 15604643.18 15604643.36 0.0506 0.0104

Uranus 38012-01-28 05:45 G 15604684.62 15604684.74 15604684.87 0.0143 0.0049

Mars 38012-04-24 14:24 G 15604772.01 15604772.10 15604772.19 0.1918 0.1168

Uranus 38012-04-25 09:36 G 15604772.78 15604772.90 15604773.02 0.0143 0.0071

Uranus 38012-07-22 13:12 G 15604860.95 15604861.05 15604861.15 0.0144 0.0093

Uranus 38012-10-18 16:48 G 15604949.13 15604949.20 15604949.29 0.0144 0.0115

Uranus 38013-01-14 20:38 G 15605037.33 15605037.36 15605037.40 0.0144 0.0137

Moon 38013-07-06 10:33 G 15605209.84 15605209.94 15605210.04 0.2655 0.1069

Earth 38013-07-06 11:17 G 15605209.87 15605209.97 15605210.06 0.2652 0.1126 *

Venus 38013-10-06 17:31 G 15605302.14 15605302.23 15605302.33 0.3687 0.1508

Neptune 38016-08-23 10:05 G 15606353.92 15606353.92 15606353.96 0.0089 0.0088

Neptune 38016-11-19 11:45 G 15606441.94 15606441.99 15606442.05 0.0089 0.0080

Neptune 38017-02-15 12:57 G 15606529.97 15606530.04 15606530.12 0.0089 0.0073

Neptune 38017-05-14 14:09 G 15606618.01 15606618.09 15606618.19 0.0089 0.0066

Jupiter 38017-08-10 04:48 G 15606705.57 15606705.70 15606705.82 0.0520 0.0089

Neptune 38017-08-10 15:36 G 15606706.05 15606706.15 15606706.25 0.0089 0.0058

Neptune 38017-11-06 16:48 G 15606794.10 15606794.20 15606794.32 0.0089 0.0051

Jupiter 38017-11-07 09:36 G 15606794.87 15606794.90 15606794.93 0.0518 0.0503

Neptune 38018-02-02 18:14 G 15606882.15 15606882.26 15606882.38 0.0089 0.0043

Neptune 38018-05-01 19:41 G 15606970.20 15606970.32 15606970.44 0.0089 0.0036

Neptune 38018-07-28 20:53 G 15607058.25 15607058.37 15607058.50 0.0089 0.0029

Neptune 38018-10-24 22:05 G 15607146.30 15607146.42 15607146.56 0.0089 0.0022

Mars 38018-12-13 22:19 G 15607196.27 15607196.43 15607196.60 0.1614 0.0071

Neptune 38019-01-20 23:31 G 15607234.35 15607234.48 15607234.61 0.0089 0.0014

Neptune 38019-04-19 00:57 G 15607322.40 15607322.54 15607322.67 0.0089 0.0007

Venus 38019-04-22 09:36 G 15607325.80 15607325.90 15607326.01 0.3686 0.0489

Neptune 38019-07-16 02:09 G 15607410.46 15607410.59 15607410.72 0.0089 0.0001

Neptune 38019-10-12 03:36 G 15607498.51 15607498.65 15607498.78 0.0089 0.0009

Neptune 38020-01-08 04:48 G 15607586.57 15607586.70 15607586.83 0.0089 0.0016

Neptune 38020-04-05 06:00 G 15607674.63 15607674.75 15607674.89 0.0089 0.0024

Moon 38020-06-29 12:57 G 15607759.99 15607760.04 15607760.09 0.2646 0.2318

Earth 38020-06-29 12:43 G 15607759.99 15607760.03 15607760.08 0.2653 0.2406 *

Neptune 38020-07-02 07:26 G 15607762.69 15607762.81 15607762.94 0.0089 0.0031

Neptune 38020-09-28 08:38 G 15607850.75 15607850.86 15607850.99 0.0089 0.0038

Neptune 38020-12-25 10:05 G 15607938.81 15607938.92 15607939.04 0.0089 0.0045

Neptune 38021-03-23 11:31 G 15608026.87 15608026.98 15608027.08 0.0088 0.0053

Neptune 38021-06-19 12:29 G 15608114.94 15608115.02 15608115.13 0.0088 0.0061

Saturn 38021-08-06 22:19 G 15608163.36 15608163.43 15608163.49 0.0286 0.0267

Mars 38021-09-14 22:33 G 15608202.33 15608202.44 15608202.56 0.1923 0.0202

Neptune 38021-09-15 13:55 G 15608203.00 15608203.08 15608203.17 0.0088 0.0068

Saturn 38021-11-03 22:48 G 15608252.27 15608252.45 15608252.64 0.0287 0.0060

Neptune 38021-12-12 15:07 G 15608291.08 15608291.13 15608291.21 0.0088 0.0076

Saturn 38022-01-31 23:17 G 15608341.31 15608341.47 15608341.63 0.0288 0.0148

Neptune 38022-03-10 16:33 G 15608379.16 15608379.19 15608379.25 0.0088 0.0083

Jupiter 38023-10-05 13:26 G 15608952.88 15608953.06 15608953.24 0.0506 0.0096

Pluto 38023-11-08 23:45 G 15608987.44 15608987.49 15608987.56 0.0069 0.0061

Pluto 38024-02-05 00:14 G 15609075.43 15609075.51 15609075.61 0.0069 0.0051

Pluto 38024-05-03 00:43 G 15609163.44 15609163.53 15609163.65 0.0069 0.0041

Pluto 38024-07-30 01:41 G 15609251.45 15609251.57 15609251.68 0.0069 0.0031

Pluto 38024-10-26 02:09 G 15609339.46 15609339.59 15609339.72 0.0069 0.0020

Venus 38024-11-05 01:55 G 15609349.51 15609349.58 15609349.66 0.3686 0.2517

Pluto 38025-01-22 02:38 G 15609427.48 15609427.61 15609427.74 0.0070 0.0010

Pluto 38025-04-20 03:07 G 15609515.50 15609515.63 15609515.77 0.0070 0.0003

Pluto 38025-07-17 03:50 G 15609603.53 15609603.66 15609603.79 0.0070 0.0011

Pluto 38025-10-13 04:19 G 15609691.56 15609691.68 15609691.81 0.0070 0.0021

Pluto 38026-01-09 04:48 G 15609779.59 15609779.70 15609779.82 0.0070 0.0032

Pluto 38026-04-07 05:17 G 15609867.62 15609867.72 15609867.83 0.0070 0.0042

Pluto 38026-07-04 05:45 G 15609955.67 15609955.74 15609955.84 0.0070 0.0053

Moon 38026-07-09 03:50 G 15609960.62 15609960.66 15609960.71 0.2658 0.2376

Earth 38026-07-09 04:19 G 15609960.63 15609960.68 15609960.72 0.2652 0.2398 *

Pluto 38026-09-30 06:29 G 15610043.72 15610043.77 15610043.83 0.0070 0.0064

Mars 38028-05-05 00:29 G 15610626.42 15610626.52 15610626.62 0.1611 0.1247

Venus 38028-11-03 05:17 G 15610808.58 15610808.72 15610808.87 0.3684 0.0854

Jupiter 38029-05-29 09:07 G 15611015.77 15611015.88 15611015.99 0.0520 0.0240

Jupiter 38029-08-26 13:41 G 15611104.98 15611105.07 15611105.16 0.0518 0.0350

Mars 38031-02-05 06:29 G 15611632.71 15611632.77 15611632.83 0.1927 0.1607

Moon 38033-07-02 05:31 G 15612510.63 15612510.73 15612510.82 0.2647 0.1252

Earth 38033-07-02 05:45 G 15612510.65 15612510.74 15612510.84 0.2652 0.1147 *

Saturn 38034-09-16 20:09 G 15612952.27 15612952.34 15612952.41 0.0277 0.0231

Saturn 38034-12-14 06:43 G 15613040.66 15613040.78 15613040.90 0.0276 0.0105

Saturn 38035-03-12 17:17 G 15613129.09 15613129.22 15613129.35 0.0275 0.0020

Saturn 38035-06-09 03:36 G 15613217.55 15613217.65 15613217.77 0.0274 0.0145

Jupiter 38035-07-24 10:19 G 15613262.78 15613262.93 15613263.08 0.0506 0.0298

Saturn 38035-09-05 14:09 G 15613306.08 15613306.09 15613306.12 0.0273 0.0268

Jupiter 38041-03-17 13:41 G 15615325.99 15615326.07 15615326.16 0.0520 0.0384

Jupiter 38041-06-14 18:14 G 15615415.15 15615415.26 15615415.38 0.0518 0.0206

Moon 38046-07-04 22:19 G 15617261.32 15617261.43 15617261.53 0.2650 0.0133

Earth 38046-07-04 22:48 G 15617261.34 15617261.45 15617261.56 0.2652 0.0122 *

Jupiter 38047-05-12 06:57 G 15617572.78 15617572.79 15617572.82 0.0505 0.0502

Jupiter 38047-08-10 19:41 G 15617663.18 15617663.32 15617663.46 0.0507 0.0338

Mars 38049-01-21 20:53 G 15618193.34 15618193.37 15618193.40 0.1618 0.1587

Earth 38050-01-03 20:24 G 15618540.19 15618540.35 15618540.52 0.2679 0.0179

Moon 38050-01-03 21:36 G 15618540.23 15618540.40 15618540.56 0.2673 0.0198 *

Uranus 38050-09-28 12:43 G 15618807.94 15618808.03 15618808.12 0.0136 0.0119

Uranus 38050-12-25 19:41 G 15618896.19 15618896.32 15618896.47 0.0135 0.0093

Saturn 38051-03-23 19:26 G 15618984.14 15618984.31 15618984.48 0.0287 0.0133

Uranus 38051-03-24 02:53 G 15618984.47 15618984.62 15618984.80 0.0135 0.0067 *

Uranus 38051-06-20 10:05 G 15619072.75 15619072.92 15619073.11 0.0135 0.0041

Saturn 38051-06-20 19:55 G 15619073.15 15619073.33 15619073.51 0.0288 0.0075

Uranus 38051-09-16 17:31 G 15619161.04 15619161.23 15619161.42 0.0135 0.0014

Saturn 38051-09-17 20:09 G 15619162.31 15619162.34 15619162.38 0.0289 0.0283

Mars 38051-10-24 14:24 G 15619199.02 15619199.10 15619199.18 0.1918 0.1341

Uranus 38051-12-14 00:29 G 15619249.33 15619249.52 15619249.71 0.0135 0.0012

Uranus 38052-03-11 07:26 G 15619337.64 15619337.81 15619338.00 0.0135 0.0038

Uranus 38052-06-07 14:38 G 15619425.94 15619426.11 15619426.28 0.0135 0.0063

Uranus 38052-09-03 21:21 G 15619514.26 15619514.39 15619514.54 0.0135 0.0089

Uranus 38052-12-01 04:19 G 15619602.59 15619602.68 15619602.79 0.0135 0.0114

Jupiter 38053-04-02 22:48 G 15619725.32 15619725.45 15619725.58 0.0519 0.0058

Mars 38058-06-13 23:02 G 15621623.29 15621623.46 15621623.62 0.1614 0.0271

Jupiter 38059-05-29 16:19 G 15621973.00 15621973.18 15621973.36 0.0506 0.0133

Moon 38059-07-07 15:21 G 15622012.05 15622012.14 15622012.23 0.2656 0.1265

Earth 38059-07-07 15:50 G 15622012.07 15622012.16 15622012.26 0.2652 0.1388 *

Mars 38061-03-15 22:19 G 15622629.32 15622629.43 15622629.55 0.1923 0.0086

Saturn 38064-02-03 21:50 G 15623684.40 15623684.41 15623684.43 0.0277 0.0275

Saturn 38064-05-02 08:24 G 15623772.75 15623772.85 15623772.97 0.0276 0.0149

Saturn 38064-07-29 19:12 G 15623861.17 15623861.30 15623861.43 0.0275 0.0024

Saturn 38064-10-26 05:45 G 15623949.61 15623949.74 15623949.86 0.0274 0.0101

Venus 38064-10-27 23:02 G 15623951.39 15623951.46 15623951.53 0.3687 0.2767

Jupiter 38065-01-20 03:36 G 15624035.53 15624035.65 15624035.78 0.0520 0.0083

Saturn 38065-01-22 16:05 G 15624038.10 15624038.17 15624038.25 0.0273 0.0224

Jupiter 38065-04-19 08:24 G 15624124.83 15624124.85 15624124.87 0.0518 0.0509

Earth 38066-06-30 17:31 G 15624562.17 15624562.23 15624562.29 0.2653 0.2148

Moon 38066-06-30 17:45 G 15624562.18 15624562.24 15624562.30 0.2646 0.2160 *

Mars 38067-11-04 00:57 G 15625053.42 15625053.54 15625053.67 0.1611 0.1048

Venus 38070-05-13 15:07 G 15625975.03 15625975.13 15625975.23 0.3687 0.0813

Mars 38070-08-06 06:43 G 15626059.70 15626059.78 15626059.85 0.1927 0.1439

Jupiter 38071-03-17 12:43 G 15626282.85 15626283.03 15626283.21 0.0506 0.0077

Moon 38072-07-09 08:53 G 15626762.87 15626762.87 15626762.87 0.2658 0.2651

Venus 38075-11-27 07:12 G 15627998.70 15627998.80 15627998.90 0.3686 0.1203

Jupiter 38076-11-08 08:38 G 15628345.74 15628345.86 15628345.97 0.0521 0.0221

Jupiter 38077-02-05 13:12 G 15628434.97 15628435.05 15628435.14 0.0519 0.0371

Moon 38079-07-03 10:05 G 15629312.82 15629312.92 15629313.02 0.2647 0.0904

Earth 38079-07-03 10:33 G 15629312.84 15629312.94 15629313.04 0.2652 0.0891 *

Saturn 38080-08-09 14:09 G 15629715.98 15629716.09 15629716.22 0.0286 0.0219

Saturn 38080-11-06 14:53 G 15629804.94 15629805.12 15629805.31 0.0287 0.0012

Saturn 38081-02-03 15:07 G 15629894.01 15629894.13 15629894.27 0.0288 0.0197

Venus 38081-06-11 23:31 G 15630022.43 15630022.48 15630022.53 0.3686 0.3245

Earth 38083-01-01 17:31 G 15630591.17 15630591.23 15630591.30 0.2679 0.2472

Moon 38083-01-01 19:26 G 15630591.23 15630591.31 15630591.38 0.2676 0.2350 *

Jupiter 38083-01-03 09:36 G 15630592.75 15630592.90 15630593.06 0.0506 0.0278

Venus 38085-06-10 06:29 G 15631481.63 15631481.77 15631481.92 0.3684 0.0866

Jupiter 38088-08-27 12:57 G 15632655.96 15632656.04 15632656.13 0.0520 0.0369

Jupiter 38088-11-24 17:31 G 15632745.12 15632745.23 15632745.35 0.0518 0.0220

Mars 38091-04-24 14:24 G 15633626.03 15633626.10 15633626.17 0.1917 0.1493

Moon 38092-07-05 02:53 G 15634063.52 15634063.62 15634063.73 0.2651 0.0238

Earth 38092-07-05 03:36 G 15634063.54 15634063.65 15634063.76 0.2652 0.0373 *

Saturn 38093-09-19 10:19 G 15634504.84 15634504.93 15634505.02 0.0277 0.0196

Uranus 38093-12-16 05:17 G 15634592.68 15634592.72 15634592.76 0.0143 0.0135

Saturn 38093-12-16 20:53 G 15634593.24 15634593.37 15634593.50 0.0276 0.0069

Uranus 38094-03-14 08:38 G 15634680.79 15634680.86 15634680.95 0.0143 0.0115

Saturn 38094-03-15 07:26 G 15634681.68 15634681.81 15634681.94 0.0275 0.0056

Uranus 38094-06-10 12:14 G 15634768.92 15634769.01 15634769.11 0.0143 0.0094

Saturn 38094-06-11 18:00 G 15634770.15 15634770.25 15634770.35 0.0274 0.0180

Uranus 38094-09-06 15:50 G 15634857.05 15634857.16 15634857.28 0.0143 0.0073

Jupiter 38094-10-22 06:14 G 15634902.72 15634902.76 15634902.82 0.0506 0.0483

Uranus 38094-12-03 19:26 G 15634945.19 15634945.31 15634945.43 0.0143 0.0051

Jupiter 38095-01-20 18:57 G 15634993.16 15634993.29 15634993.42 0.0508 0.0359

Uranus 38095-03-01 23:02 G 15635033.33 15635033.46 15635033.59 0.0143 0.0030

Uranus 38095-05-29 02:38 G 15635121.48 15635121.61 15635121.74 0.0143 0.0009

Uranus 38095-08-25 06:14 G 15635209.63 15635209.76 15635209.89 0.0143 0.0013

Uranus 38095-11-21 09:50 G 15635297.78 15635297.91 15635298.04 0.0143 0.0035

Earth 38096-01-05 03:21 G 15635342.49 15635342.64 15635342.80 0.2680 0.0767

Moon 38096-01-05 04:19 G 15635342.53 15635342.68 15635342.84 0.2673 0.0998 *

Uranus 38096-02-17 13:26 G 15635385.94 15635386.06 15635386.19 0.0143 0.0056

Uranus 38096-05-15 17:02 G 15635474.11 15635474.21 15635474.33 0.0143 0.0078

Uranus 38096-08-11 20:38 G 15635562.28 15635562.36 15635562.47 0.0144 0.0101

Uranus 38096-11-08 00:29 G 15635650.46 15635650.52 15635650.60 0.0144 0.0122

Mars 38097-12-12 23:45 G 15636050.33 15636050.49 15636050.65 0.1614 0.0482

Jupiter 38100-06-16 17:45 G 15636966.22 15636966.24 15636966.26 0.0521 0.0512

Jupiter 38100-09-13 22:19 G 15637055.30 15637055.43 15637055.55 0.0519 0.0078

Mars 38100-09-14 22:33 G 15637056.32 15637056.44 15637056.55 0.1922 0.0118

Neptune 38101-01-28 12:14 G 15637191.97 15637192.01 15637192.09 0.0089 0.0085

Neptune 38101-04-26 15:50 G 15637280.07 15637280.16 15637280.29 0.0089 0.0074

Neptune 38101-07-23 19:41 G 15637368.19 15637368.32 15637368.47 0.0089 0.0063

Neptune 38101-10-19 23:17 G 15637456.32 15637456.47 15637456.64 0.0089 0.0052

Neptune 38102-01-16 02:53 G 15637544.46 15637544.62 15637544.80 0.0089 0.0041

Neptune 38102-04-14 06:43 G 15637632.60 15637632.78 15637632.96 0.0089 0.0030

Neptune 38102-07-11 10:19 G 15637720.74 15637720.93 15637721.12 0.0089 0.0019

Neptune 38102-10-07 13:41 G 15637808.88 15637809.07 15637809.27 0.0089 0.0009

Neptune 38103-01-03 17:31 G 15637897.03 15637897.23 15637897.42 0.0089 0.0003

Neptune 38103-04-01 20:53 G 15637985.18 15637985.37 15637985.56 0.0089 0.0013

Neptune 38103-06-29 00:29 G 15638073.34 15638073.52 15638073.71 0.0089 0.0024

Neptune 38103-09-25 03:50 G 15638161.49 15638161.66 15638161.85 0.0089 0.0035

Neptune 38103-12-22 07:12 G 15638249.65 15638249.80 15638249.98 0.0089 0.0046

Neptune 38104-03-19 11:02 G 15638337.82 15638337.96 15638338.11 0.0089 0.0056

Neptune 38104-06-15 14:24 G 15638425.99 15638426.10 15638426.24 0.0089 0.0067

Neptune 38104-09-11 17:45 G 15638514.17 15638514.24 15638514.35 0.0089 0.0078

Neptune 38104-12-08 21:36 G 15638602.39 15638602.40 15638602.42 0.0089 0.0088

Moon 38105-07-08 20:09 G 15638814.25 15638814.34 15638814.42 0.2656 0.1622

Earth 38105-07-08 20:38 G 15638814.28 15638814.36 15638814.44 0.2652 0.1643 *

Jupiter 38106-11-09 16:05 G 15639302.99 15639303.17 15639303.34 0.0507 0.0157

Mars 38107-05-06 01:41 G 15639480.43 15639480.57 15639480.72 0.1611 0.0836

Pluto 38109-12-14 11:45 G 15640433.90 15640433.99 15640434.12 0.0075 0.0062

Mars 38110-02-05 06:29 G 15640486.69 15640486.77 15640486.86 0.1927 0.1288

Pluto 38110-03-12 14:38 G 15640521.96 15640522.11 15640522.28 0.0075 0.0042

Saturn 38110-03-27 11:17 G 15640536.79 15640536.97 15640537.15 0.0287 0.0085

Pluto 38110-06-08 17:17 G 15640610.04 15640610.22 15640610.42 0.0075 0.0023

Saturn 38110-06-24 11:45 G 15640625.82 15640625.99 15640626.16 0.0288 0.0122

Pluto 38110-09-04 19:55 G 15640698.14 15640698.33 15640698.53 0.0075 0.0004

Pluto 38110-12-01 22:33 G 15640786.25 15640786.44 15640786.64 0.0075 0.0016

Pluto 38111-02-28 00:43 G 15640874.38 15640874.53 15640874.73 0.0074 0.0036

Pluto 38111-05-27 03:21 G 15640962.52 15640962.64 15640962.79 0.0074 0.0054

Pluto 38111-08-23 05:45 G 15641050.73 15641050.74 15641050.79 0.0074 0.0073

Moon 38112-07-01 22:05 G 15641364.35 15641364.42 15641364.50 0.2646 0.1888

Earth 38112-07-01 22:19 G 15641364.35 15641364.43 15641364.50 0.2652 0.1895 *

Jupiter 38112-07-03 02:38 G 15641365.49 15641365.61 15641365.74 0.0520 0.0073

Jupiter 38118-08-28 12:43 G 15643612.85 15643613.03 15643613.22 0.0506 0.0048

Venus 38121-06-04 20:38 G 15644624.27 15644624.36 15644624.44 0.3687 0.2085

Saturn 38123-02-07 12:00 G 15645236.94 15645237.00 15645237.07 0.0277 0.0240

Saturn 38123-05-06 22:33 G 15645325.33 15645325.44 15645325.57 0.0276 0.0114

Saturn 38123-08-03 09:21 G 15645413.76 15645413.89 15645414.02 0.0275 0.0014

Saturn 38123-10-30 19:55 G 15645502.21 15645502.33 15645502.44 0.0274 0.0137

Saturn 38124-01-27 06:29 G 15645590.73 15645590.77 15645590.80 0.0273 0.0260

Jupiter 38124-04-21 07:26 G 15645675.70 15645675.81 15645675.93 0.0520 0.0214

Jupiter 38124-07-19 12:14 G 15645764.92 15645765.01 15645765.09 0.0518 0.0378

Moon 38125-07-04 14:53 G 15646115.01 15646115.12 15646115.22 0.2647 0.0754

Earth 38125-07-04 15:21 G 15646115.03 15646115.14 15646115.24 0.2652 0.0645 *

Venus 38126-12-19 12:43 G 15646647.92 15646648.03 15646648.13 0.3687 0.0127

Earth 38129-01-03 00:43 G 15647393.41 15647393.53 15647393.64 0.2679 0.1868

Moon 38129-01-03 02:09 G 15647393.46 15647393.59 15647393.72 0.2675 0.1617 *

Jupiter 38130-06-16 09:07 G 15647922.72 15647922.88 15647923.04 0.0506 0.0258

Mars 38130-10-24 14:24 G 15648053.04 15648053.10 15648053.16 0.1918 0.1658

Venus 38132-07-04 04:48 G 15648671.62 15648671.70 15648671.79 0.3686 0.1936

Uranus 38134-10-19 20:09 G 15649509.24 15649509.34 15649509.46 0.0135 0.0110

Uranus 38135-01-16 03:36 G 15649597.50 15649597.65 15649597.80 0.0135 0.0084

Uranus 38135-04-14 10:48 G 15649685.78 15649685.95 15649686.13 0.0135 0.0057

Uranus 38135-07-11 18:00 G 15649774.07 15649774.25 15649774.44 0.0135 0.0031

Uranus 38135-10-08 01:12 G 15649862.36 15649862.55 15649862.74 0.0135 0.0005

Uranus 38136-01-04 08:09 G 15649950.66 15649950.84 15649951.03 0.0135 0.0021

Jupiter 38136-02-08 12:29 G 15649985.93 15649986.02 15649986.11 0.0521 0.0352

Uranus 38136-04-01 15:07 G 15650038.96 15650039.13 15650039.31 0.0135 0.0046

Jupiter 38136-05-07 17:02 G 15650075.10 15650075.21 15650075.32 0.0519 0.0239

Uranus 38136-06-28 22:05 G 15650127.27 15650127.42 15650127.59 0.0135 0.0072

Venus 38136-07-02 01:55 G 15650130.48 15650130.58 15650130.69 0.3684 0.2627

Uranus 38136-09-25 05:02 G 15650215.59 15650215.71 15650215.85 0.0135 0.0097

Uranus 38136-12-22 12:00 G 15650303.93 15650304.00 15650304.08 0.0135 0.0122

Mars 38137-06-14 00:14 G 15650477.36 15650477.51 15650477.66 0.1615 0.0685

Moon 38138-07-07 07:41 G 15650865.71 15650865.82 15650865.92 0.2653 0.0593

Earth 38138-07-07 08:24 G 15650865.74 15650865.85 15650865.95 0.2652 0.0635 *

Saturn 38139-08-14 06:29 G 15651268.62 15651268.77 15651268.92 0.0286 0.0170

Saturn 38139-11-11 06:57 G 15651357.60 15651357.79 15651357.97 0.0287 0.0037

Saturn 38140-02-08 07:12 G 15651446.71 15651446.80 15651446.90 0.0288 0.0245

Mars 38140-03-15 22:33 G 15651483.32 15651483.44 15651483.55 0.1922 0.0275

Earth 38142-01-06 10:19 G 15652144.79 15652144.93 15652145.07 0.2680 0.1360

Moon 38142-01-06 11:02 G 15652144.82 15652144.96 15652145.11 0.2674 0.1347 *

Venus 38142-01-16 07:41 G 15652154.72 15652154.82 15652154.93 0.3684 0.2558

Jupiter 38142-04-04 06:00 G 15652232.68 15652232.75 15652232.83 0.0505 0.0459

Jupiter 38142-07-03 18:14 G 15652323.15 15652323.26 15652323.39 0.0507 0.0381

Mars 38146-11-04 02:24 G 15653907.45 15653907.60 15653907.76 0.1611 0.0629

Jupiter 38147-11-27 17:02 G 15654296.18 15654296.21 15654296.24 0.0521 0.0497

Jupiter 38148-02-24 21:36 G 15654385.27 15654385.40 15654385.52 0.0519 0.0092

Mars 38149-08-06 06:29 G 15654913.68 15654913.77 15654913.86 0.1927 0.1131

Moon 38151-07-10 00:57 G 15655616.46 15655616.54 15655616.62 0.2656 0.1784

Earth 38151-07-10 01:26 G 15655616.48 15655616.56 15655616.63 0.2652 0.1901 *

Saturn 38152-09-23 00:14 G 15656057.41 15656057.51 15656057.62 0.0277 0.0162

Saturn 38152-12-20 11:02 G 15656145.83 15656145.96 15656146.09 0.0276 0.0035

Saturn 38153-03-18 21:36 G 15656234.27 15656234.40 15656234.52 0.0275 0.0091

Saturn 38153-06-15 08:09 G 15656322.76 15656322.84 15656322.92 0.0274 0.0216

Jupiter 38154-04-21 15:07 G 15656632.96 15656633.13 15656633.31 0.0507 0.0176

Moon 38158-07-03 02:38 G 15658166.53 15658166.61 15658166.70 0.2646 0.1653

Earth 38158-07-03 02:53 G 15658166.54 15658166.62 15658166.71 0.2652 0.1639 *

Jupiter 38159-12-14 02:09 G 15658695.47 15658695.59 15658695.72 0.0519 0.0053

Jupiter 38166-02-07 12:14 G 15660942.82 15660943.01 15660943.20 0.0507 0.0027

Saturn 38168-12-31 03:07 G 15662000.53 15662000.63 15662000.73 0.0285 0.0240

Saturn 38169-03-30 03:36 G 15662089.47 15662089.65 15662089.84 0.0287 0.0034

Saturn 38169-06-27 03:50 G 15662178.52 15662178.66 15662178.82 0.0288 0.0174

Mars 38170-04-24 14:24 G 15662480.07 15662480.10 15662480.13 0.1917 0.1818

Moon 38171-07-05 19:26 G 15662917.20 15662917.31 15662917.42 0.2648 0.0427

Earth 38171-07-05 19:55 G 15662917.23 15662917.33 15662917.44 0.2652 0.0385 *

Jupiter 38171-10-02 06:43 G 15663005.66 15663005.78 15663005.89 0.0520 0.0202

Jupiter 38171-12-30 11:17 G 15663094.89 15663094.97 15663095.05 0.0518 0.0388

Venus 38172-06-26 02:09 G 15663273.54 15663273.59 15663273.63 0.3688 0.3327

Earth 38175-01-04 07:41 G 15664195.67 15664195.82 15664195.96 0.2679 0.1274

Moon 38175-01-04 09:07 G 15664195.73 15664195.88 15664196.03 0.2674 0.1125 *

Mars 38176-12-13 00:57 G 15664904.40 15664904.54 15664904.68 0.1615 0.0889

Jupiter 38177-11-26 08:53 G 15665252.71 15665252.87 15665253.04 0.0506 0.0232

Uranus 38178-01-06 12:29 G 15665293.97 15665294.02 15665294.08 0.0143 0.0130

Venus 38178-01-09 18:00 G 15665297.16 15665297.25 15665297.35 0.3687 0.1380

Uranus 38178-04-04 15:50 G 15665382.09 15665382.16 15665382.26 0.0143 0.0110

Uranus 38178-07-01 19:26 G 15665470.22 15665470.31 15665470.42 0.0143 0.0089

Uranus 38178-09-27 23:02 G 15665558.35 15665558.46 15665558.58 0.0143 0.0068

Uranus 38178-12-25 02:53 G 15665646.49 15665646.62 15665646.74 0.0143 0.0046

Uranus 38179-03-23 06:14 G 15665734.63 15665734.76 15665734.90 0.0143 0.0025

Uranus 38179-06-19 09:50 G 15665822.78 15665822.91 15665823.05 0.0143 0.0005

Mars 38179-09-14 22:19 G 15665910.32 15665910.43 15665910.55 0.1922 0.0421

Uranus 38179-09-15 13:26 G 15665910.93 15665911.06 15665911.20 0.0143 0.0019

Uranus 38179-12-12 17:02 G 15665999.09 15665999.21 15665999.34 0.0143 0.0040

Uranus 38180-03-09 20:53 G 15666087.25 15666087.37 15666087.49 0.0143 0.0062

Uranus 38180-06-06 00:29 G 15666175.41 15666175.52 15666175.63 0.0143 0.0084

Uranus 38180-09-02 04:05 G 15666263.59 15666263.67 15666263.77 0.0144 0.0106

Uranus 38180-11-29 07:55 G 15666351.77 15666351.83 15666351.89 0.0144 0.0128

Neptune 38181-05-21 09:36 G 15666524.88 15666524.90 15666524.95 0.0089 0.0086

Neptune 38181-08-17 11:02 G 15666612.91 15666612.96 15666613.03 0.0089 0.0078

Neptune 38181-11-13 12:14 G 15666700.95 15666701.01 15666701.10 0.0089 0.0071

Neptune 38182-02-09 13:41 G 15666788.99 15666789.07 15666789.17 0.0089 0.0063

Saturn 38182-02-10 02:09 G 15666789.51 15666789.59 15666789.68 0.0277 0.0206

Neptune 38182-05-08 15:07 G 15666877.03 15666877.13 15666877.23 0.0089 0.0056

Saturn 38182-05-09 12:43 G 15666877.91 15666878.03 15666878.16 0.0276 0.0079

Neptune 38182-08-04 16:19 G 15666965.08 15666965.18 15666965.30 0.0089 0.0049

Saturn 38182-08-05 23:17 G 15666966.34 15666966.47 15666966.60 0.0275 0.0048

Neptune 38182-10-31 17:31 G 15667053.12 15667053.23 15667053.36 0.0089 0.0042

Saturn 38182-11-02 09:50 G 15667054.81 15667054.91 15667055.02 0.0274 0.0172

Neptune 38183-01-27 18:57 G 15667141.17 15667141.29 15667141.42 0.0089 0.0034

Neptune 38183-04-25 20:24 G 15667229.23 15667229.35 15667229.48 0.0089 0.0026

Jupiter 38183-07-21 11:17 G 15667315.88 15667315.97 15667316.07 0.0521 0.0345

Neptune 38183-07-22 21:36 G 15667317.28 15667317.40 15667317.54 0.0089 0.0019

Venus 38183-07-26 10:19 G 15667320.82 15667320.93 15667321.03 0.3686 0.0632

Jupiter 38183-10-18 16:05 G 15667405.05 15667405.17 15667405.28 0.0519 0.0247

Neptune 38183-10-18 23:02 G 15667405.33 15667405.46 15667405.59 0.0089 0.0012

Neptune 38184-01-15 00:14 G 15667493.38 15667493.51 15667493.65 0.0089 0.0006

Neptune 38184-04-12 01:41 G 15667581.44 15667581.57 15667581.70 0.0089 0.0003

Moon 38184-07-07 12:29 G 15667667.91 15667668.02 15667668.12 0.2654 0.0748

Earth 38184-07-07 12:57 G 15667667.94 15667668.04 15667668.15 0.2652 0.0890 *

Neptune 38184-07-09 03:07 G 15667669.49 15667669.63 15667669.76 0.0089 0.0011

Neptune 38184-10-05 04:19 G 15667757.55 15667757.68 15667757.81 0.0089 0.0018

Neptune 38185-01-01 05:31 G 15667845.61 15667845.73 15667845.86 0.0089 0.0026

Neptune 38185-03-30 06:57 G 15667933.67 15667933.79 15667933.91 0.0088 0.0033

Neptune 38185-06-26 08:09 G 15668021.73 15668021.84 15668021.97 0.0088 0.0040

Neptune 38185-09-22 09:36 G 15668109.79 15668109.90 15668110.01 0.0088 0.0048

Neptune 38185-12-19 10:48 G 15668197.85 15668197.95 15668198.06 0.0088 0.0055

Neptune 38186-03-17 12:14 G 15668285.92 15668286.01 15668286.11 0.0088 0.0063

Mars 38186-05-05 03:07 G 15668334.47 15668334.63 15668334.79 0.1611 0.0432

Neptune 38186-06-13 13:26 G 15668373.99 15668374.06 15668374.15 0.0088 0.0070

Neptune 38186-09-09 14:53 G 15668462.06 15668462.12 15668462.19 0.0088 0.0078

Neptune 38186-12-06 16:05 G 15668550.15 15668550.17 15668550.21 0.0088 0.0085

Earth 38188-01-07 17:17 G 15668947.11 15668947.22 15668947.33 0.2680 0.1952

Moon 38188-01-07 17:45 G 15668947.13 15668947.24 15668947.34 0.2673 0.2071 *

Mars 38189-02-04 06:29 G 15669340.67 15669340.77 15669340.87 0.1927 0.0965

Venus 38189-02-08 02:38 G 15669344.53 15669344.61 15669344.68 0.3686 0.2671

Jupiter 38189-09-14 05:17 G 15669562.63 15669562.72 15669562.81 0.0505 0.0441

Jupiter 38189-12-13 17:31 G 15669653.12 15669653.23 15669653.35 0.0507 0.0398

Moon 38191-07-01 14:53 G 15670218.10 15670218.12 15670218.15 0.2647 0.2551

Earth 38191-07-01 14:38 G 15670218.11 15670218.11 15670218.12 0.2653 0.2637 *

Venus 38193-02-06 03:21 G 15670803.50 15670803.64 15670803.78 0.3684 0.0862

Jupiter 38195-05-09 16:19 G 15671626.14 15671626.18 15671626.22 0.0521 0.0483

Jupiter 38195-08-06 20:53 G 15671715.25 15671715.37 15671715.49 0.0519 0.0107

Moon 38197-07-10 05:45 G 15672418.68 15672418.74 15672418.80 0.2657 0.2168

Earth 38197-07-10 06:00 G 15672418.69 15672418.75 15672418.81 0.2651 0.2156 *

Saturn 38198-08-16 22:48 G 15672821.29 15672821.45 15672821.63 0.0286 0.0118

Saturn 38198-11-13 23:17 G 15672910.30 15672910.47 15672910.65 0.0287 0.0090

Jupiter 38201-10-02 14:38 G 15673962.94 15673963.11 15673963.28 0.0507 0.0197

Moon 38204-07-04 07:26 G 15674968.72 15674968.81 15674968.90 0.2646 0.1442

Earth 38204-07-04 07:41 G 15674968.73 15674968.82 15674968.91 0.2652 0.1384 *

Jupiter 38207-05-27 01:26 G 15676025.43 15676025.56 15676025.69 0.0519 0.0039

Saturn 38211-07-01 03:50 G 15677521.61 15677521.66 15677521.71 0.0279 0.0254

Saturn 38211-09-27 14:24 G 15677609.99 15677610.10 15677610.22 0.0277 0.0126

Saturn 38211-12-25 01:12 G 15677698.42 15677698.55 15677698.68 0.0276 0.0006

Saturn 38212-03-22 11:45 G 15677786.87 15677786.99 15677787.11 0.0275 0.0127

Saturn 38212-06-18 22:19 G 15677875.38 15677875.43 15677875.48 0.0274 0.0252

Jupiter 38213-07-21 11:17 G 15678272.78 15678272.97 15678273.15 0.0507 0.0017

Mars 38216-06-14 01:41 G 15679331.45 15679331.57 15679331.69 0.1615 0.1096

Moon 38217-07-07 00:00 G 15679719.40 15679719.50 15679719.61 0.2650 0.0233

Earth 38217-07-07 00:43 G 15679719.42 15679719.53 15679719.64 0.2652 0.0122 *

Uranus 38218-08-13 19:55 G 15680122.29 15680122.33 15680122.39 0.0136 0.0131

Uranus 38218-11-10 03:21 G 15680210.52 15680210.64 15680210.77 0.0135 0.0104

Uranus 38219-02-06 10:33 G 15680298.79 15680298.94 15680299.10 0.0135 0.0078

Jupiter 38219-03-15 06:14 G 15680335.64 15680335.76 15680335.87 0.0519 0.0183

Mars 38219-03-16 22:19 G 15680337.32 15680337.43 15680337.54 0.1922 0.0586

Uranus 38219-05-05 17:45 G 15680387.07 15680387.24 15680387.42 0.0135 0.0051

Jupiter 38219-06-12 10:48 G 15680424.87 15680424.95 15680425.02 0.0517 0.0407

Uranus 38219-08-02 00:57 G 15680475.36 15680475.54 15680475.73 0.0135 0.0025

Uranus 38219-10-29 08:09 G 15680563.65 15680563.84 15680564.03 0.0135 0.0002

Uranus 38220-01-25 15:07 G 15680651.95 15680652.13 15680652.32 0.0135 0.0027

Uranus 38220-04-22 22:05 G 15680740.26 15680740.42 15680740.60 0.0135 0.0053

Uranus 38220-07-20 05:02 G 15680828.57 15680828.71 15680828.87 0.0135 0.0078

Uranus 38220-10-16 12:14 G 15680916.89 15680917.01 15680917.13 0.0135 0.0103

Earth 38221-01-05 14:38 G 15680997.95 15680998.11 15680998.27 0.2679 0.0670

Moon 38221-01-05 16:05 G 15680998.00 15680998.17 15680998.33 0.2674 0.0484 *

Uranus 38221-01-12 18:43 G 15681005.24 15681005.28 15681005.35 0.0135 0.0129

Jupiter 38225-05-09 07:55 G 15682582.67 15682582.83 15682583.00 0.0506 0.0216

Mars 38225-11-04 03:50 G 15682761.50 15682761.66 15682761.83 0.1611 0.0213

Saturn 38228-01-04 20:09 G 15683553.20 15683553.34 15683553.49 0.0285 0.0183

Saturn 38228-04-02 20:38 G 15683642.17 15683642.36 15683642.55 0.0286 0.0023

Saturn 38228-06-30 20:53 G 15683731.26 15683731.37 15683731.48 0.0288 0.0230

Mars 38228-08-06 06:29 G 15683767.67 15683767.77 15683767.87 0.1927 0.0809

Venus 38229-01-31 23:31 G 15683946.41 15683946.48 15683946.56 0.3687 0.2635

Moon 38230-07-09 17:02 G 15684470.12 15684470.21 15684470.31 0.2654 0.1095

Earth 38230-07-09 17:45 G 15684470.14 15684470.24 15684470.34 0.2652 0.1144 *

Jupiter 38231-01-01 10:33 G 15684645.84 15684645.94 15684646.03 0.0520 0.0332

Jupiter 38231-03-31 15:07 G 15684735.02 15684735.13 15684735.24 0.0518 0.0257

Moon 38234-01-09 00:14 G 15685749.45 15685749.51 15685749.57 0.2673 0.2460

Earth 38234-01-09 00:14 G 15685749.46 15685749.51 15685749.56 0.2680 0.2540 *

Venus 38234-08-17 15:36 G 15685970.05 15685970.15 15685970.26 0.3687 0.0672

Mars 38235-03-27 05:45 G 15686191.70 15686191.74 15686191.79 0.1608 0.1538

Jupiter 38237-02-25 04:48 G 15686892.60 15686892.70 15686892.80 0.0506 0.0420

Jupiter 38237-05-26 17:17 G 15686983.12 15686983.22 15686983.32 0.0507 0.0420

Earth 38237-07-02 19:26 G 15687020.26 15687020.31 15687020.35 0.2653 0.2381

Moon 38237-07-02 19:26 G 15687020.27 15687020.31 15687020.36 0.2646 0.2408 *

Venus 38240-03-02 07:55 G 15687993.73 15687993.83 15687993.93 0.3686 0.1359

Saturn 38241-02-13 16:33 G 15688342.09 15688342.19 15688342.29 0.0278 0.0169

Saturn 38241-05-13 03:07 G 15688430.50 15688430.63 15688430.76 0.0276 0.0041

Saturn 38241-08-09 13:41 G 15688518.95 15688519.07 15688519.20 0.0275 0.0085

Saturn 38241-11-06 00:29 G 15688607.43 15688607.52 15688607.60 0.0274 0.0211

Jupiter 38242-10-20 15:07 G 15688956.08 15688956.13 15688956.18 0.0521 0.0476

Jupiter 38243-01-17 19:41 G 15689045.20 15689045.32 15689045.45 0.0519 0.0113

Moon 38243-07-12 10:33 G 15689220.90 15689220.94 15689220.99 0.2658 0.2347

Earth 38243-07-12 10:48 G 15689220.91 15689220.95 15689220.99 0.2651 0.2412 *

Venus 38245-09-16 00:14 G 15690017.47 15690017.51 15690017.55 0.3686 0.3410

Jupiter 38249-03-14 13:41 G 15691292.90 15691293.07 15691293.24 0.0507 0.0211

Venus 38249-09-14 04:33 G 15691476.55 15691476.69 15691476.84 0.3684 0.0882

Moon 38250-07-05 12:00 G 15691770.91 15691771.00 15691771.10 0.2646 0.1134

Earth 38250-07-05 12:29 G 15691770.92 15691771.02 15691771.11 0.2652 0.1130 *

Jupiter 38254-11-06 00:29 G 15693355.40 15693355.52 15693355.65 0.0520 0.0029

Mars 38255-12-14 02:24 G 15693758.50 15693758.60 15693758.69 0.1615 0.1305

Saturn 38257-05-23 16:19 G 15694285.11 15694285.18 15694285.26 0.0285 0.0259

Saturn 38257-08-20 16:48 G 15694374.02 15694374.20 15694374.39 0.0286 0.0053

Saturn 38257-11-17 17:02 G 15694463.06 15694463.21 15694463.38 0.0287 0.0154

Mars 38258-09-14 22:33 G 15694764.33 15694764.44 15694764.54 0.1922 0.0761

Jupiter 38260-12-31 10:33 G 15695602.75 15695602.94 15695603.12 0.0506 0.0012

Uranus 38262-01-27 19:12 G 15695995.25 15695995.30 15695995.37 0.0143 0.0128

Uranus 38262-04-25 22:48 G 15696083.37 15696083.45 15696083.54 0.0143 0.0107

Uranus 38262-07-23 02:24 G 15696171.50 15696171.60 15696171.71 0.0143 0.0086

Uranus 38262-10-19 05:45 G 15696259.63 15696259.74 15696259.87 0.0143 0.0065

Uranus 38263-01-15 09:36 G 15696347.77 15696347.90 15696348.02 0.0143 0.0043

Uranus 38263-04-13 13:12 G 15696435.92 15696436.05 15696436.18 0.0143 0.0022

Moon 38263-07-08 04:48 G 15696521.59 15696521.70 15696521.81 0.2651 0.0023

Earth 38263-07-08 05:31 G 15696521.62 15696521.73 15696521.83 0.2652 0.0151 *

Uranus 38263-07-10 16:48 G 15696524.06 15696524.20 15696524.33 0.0143 0.0003

Uranus 38263-10-06 20:24 G 15696612.22 15696612.35 15696612.48 0.0143 0.0021

Uranus 38264-01-03 00:00 G 15696700.37 15696700.50 15696700.63 0.0143 0.0043

Uranus 38264-03-31 03:36 G 15696788.53 15696788.65 15696788.77 0.0143 0.0065

Uranus 38264-06-27 07:12 G 15696876.70 15696876.80 15696876.91 0.0143 0.0087

Uranus 38264-09-23 11:02 G 15696964.87 15696964.96 15696965.05 0.0143 0.0109

Uranus 38264-12-20 14:38 G 15697053.06 15697053.11 15697053.17 0.0144 0.0131

Mars 38265-05-05 04:33 G 15697188.52 15697188.69 15697188.85 0.1611 0.0038

Neptune 38265-10-26 11:02 G 15697362.89 15697362.96 15697363.05 0.0089 0.0080

Neptune 38266-01-22 14:38 G 15697451.00 15697451.11 15697451.24 0.0089 0.0069

Neptune 38266-04-20 18:29 G 15697539.12 15697539.27 15697539.42 0.0089 0.0058

Neptune 38266-07-17 22:05 G 15697627.26 15697627.42 15697627.59 0.0089 0.0047

Jupiter 38266-08-25 05:17 G 15697665.60 15697665.72 15697665.84 0.0519 0.0171

Neptune 38266-10-14 01:26 G 15697715.39 15697715.56 15697715.75 0.0089 0.0037

Jupiter 38266-11-22 09:50 G 15697754.84 15697754.91 15697754.98 0.0517 0.0418

Earth 38267-01-06 21:36 G 15697800.24 15697800.40 15697800.57 0.2680 0.0073

Moon 38267-01-06 22:48 G 15697800.28 15697800.45 15697800.61 0.2674 0.0094 *

Neptune 38267-01-10 05:02 G 15697803.53 15697803.71 15697803.91 0.0089 0.0026

Neptune 38267-04-08 08:38 G 15697891.68 15697891.86 15697892.06 0.0089 0.0015

Neptune 38267-07-05 12:29 G 15697979.82 15697980.02 15697980.21 0.0089 0.0004

Neptune 38267-10-01 16:05 G 15698067.97 15698068.17 15698068.36 0.0089 0.0007

Neptune 38267-12-28 19:26 G 15698156.13 15698156.31 15698156.50 0.0089 0.0018

Mars 38268-02-05 06:29 G 15698194.66 15698194.77 15698194.88 0.1926 0.0656

Neptune 38268-03-25 22:48 G 15698244.28 15698244.45 15698244.65 0.0089 0.0029

Neptune 38268-06-22 02:38 G 15698332.44 15698332.61 15698332.78 0.0089 0.0039

Neptune 38268-09-18 06:00 G 15698420.60 15698420.75 15698420.92 0.0089 0.0050

Neptune 38268-12-15 09:21 G 15698508.77 15698508.89 15698509.04 0.0089 0.0061

Neptune 38269-03-13 12:43 G 15698596.94 15698597.03 15698597.16 0.0089 0.0072

Neptune 38269-06-09 16:33 G 15698685.13 15698685.19 15698685.27 0.0089 0.0082

Pluto 38270-03-31 13:12 G 15698980.01 15698980.05 15698980.11 0.0069 0.0063

Pluto 38270-06-27 13:41 G 15699068.00 15699068.07 15699068.17 0.0069 0.0053

Saturn 38270-07-03 18:14 G 15699074.18 15699074.26 15699074.34 0.0278 0.0215

Pluto 38270-09-23 14:24 G 15699156.00 15699156.10 15699156.21 0.0069 0.0043

Saturn 38270-09-30 04:48 G 15699162.58 15699162.70 15699162.83 0.0277 0.0088

Pluto 38270-12-20 14:53 G 15699244.01 15699244.12 15699244.24 0.0069 0.0032

Saturn 38270-12-27 15:36 G 15699251.02 15699251.15 15699251.28 0.0276 0.0040

Pluto 38271-03-18 15:21 G 15699332.02 15699332.14 15699332.27 0.0069 0.0022

Saturn 38271-03-26 02:09 G 15699339.49 15699339.59 15699339.70 0.0275 0.0167

Pluto 38271-06-14 16:05 G 15699420.04 15699420.17 15699420.30 0.0070 0.0012

Pluto 38271-09-10 16:33 G 15699508.06 15699508.19 15699508.32 0.0070 0.0002

Pluto 38271-12-07 17:02 G 15699596.09 15699596.21 15699596.35 0.0070 0.0010

Pluto 38272-03-04 17:31 G 15699684.11 15699684.23 15699684.37 0.0070 0.0020

Pluto 38272-05-31 18:14 G 15699772.14 15699772.26 15699772.38 0.0070 0.0030

Pluto 38272-08-27 18:29 G 15699860.18 15699860.27 15699860.39 0.0070 0.0041

Jupiter 38272-10-19 06:29 G 15699912.60 15699912.77 15699912.94 0.0507 0.0208

Pluto 38272-11-23 19:12 G 15699948.22 15699948.30 15699948.40 0.0070 0.0052

Pluto 38273-02-19 19:41 G 15700036.27 15700036.32 15700036.39 0.0070 0.0062

Mars 38274-09-25 06:29 G 15700618.68 15700618.77 15700618.87 0.1608 0.1325

Moon 38276-07-09 21:50 G 15701272.32 15701272.41 15701272.51 0.2655 0.1299

Earth 38276-07-09 22:33 G 15701272.35 15701272.44 15701272.53 0.2652 0.1401 *

Jupiter 38278-06-13 09:50 G 15701975.81 15701975.91 15701976.01 0.0520 0.0315

Jupiter 38278-09-10 14:24 G 15702064.99 15702065.10 15702065.21 0.0518 0.0274

Moon 38283-07-04 00:14 G 15703822.44 15703822.51 15703822.57 0.2646 0.2063

Earth 38283-07-04 00:14 G 15703822.44 15703822.51 15703822.57 0.2653 0.2128 *

Jupiter 38284-08-07 03:21 G 15704222.53 15704222.64 15704222.75 0.0506 0.0412

Jupiter 38284-11-05 15:50 G 15704313.07 15704313.16 15704313.26 0.0508 0.0431

Venus 38285-09-07 21:07 G 15704619.29 15704619.38 15704619.47 0.3687 0.1929

Saturn 38287-01-07 14:38 G 15705105.94 15705106.11 15705106.28 0.0285 0.0114

Saturn 38287-04-06 14:53 G 15705194.95 15705195.12 15705195.30 0.0286 0.0092

Jupiter 38290-04-01 14:09 G 15706286.04 15706286.09 15706286.15 0.0520 0.0466

Jupiter 38290-06-29 18:43 G 15706375.16 15706375.28 15706375.40 0.0519 0.0122

Venus 38291-03-24 13:12 G 15706642.95 15706643.05 15706643.16 0.3687 0.0166

Mars 38295-06-14 02:53 G 15708185.56 15708185.62 15708185.68 0.1615 0.1507

Moon 38296-07-05 16:48 G 15708573.10 15708573.20 15708573.30 0.2647 0.0974

Earth 38296-07-05 17:02 G 15708573.11 15708573.21 15708573.32 0.2652 0.0878 *

Jupiter 38296-08-24 12:43 G 15708622.87 15708623.03 15708623.20 0.0507 0.0227

Venus 38296-10-07 05:31 G 15708666.64 15708666.73 15708666.82 0.3686 0.2094

Mars 38298-03-15 22:19 G 15709191.33 15709191.43 15709191.53 0.1922 0.0896

Saturn 38299-11-20 20:24 G 15709806.31 15709806.35 15709806.40 0.0279 0.0256

Moon 38300-01-04 20:38 G 15709851.28 15709851.36 15709851.43 0.2676 0.2370

Saturn 38300-02-17 07:12 G 15709894.68 15709894.80 15709894.91 0.0278 0.0127

Saturn 38300-05-16 17:45 G 15709983.11 15709983.24 15709983.37 0.0276 0.0001

Saturn 38300-08-13 04:19 G 15710071.57 15710071.68 15710071.80 0.0275 0.0127

Venus 38300-10-06 00:00 G 15710125.40 15710125.50 15710125.60 0.3684 0.2653

Saturn 38300-11-09 14:53 G 15710160.08 15710160.12 15710160.18 0.0274 0.0253

Jupiter 38302-04-18 23:17 G 15710685.34 15710685.47 15710685.60 0.0519 0.0024

Uranus 38302-09-04 02:53 G 15710823.56 15710823.62 15710823.70 0.0136 0.0125

Uranus 38302-12-01 10:05 G 15710911.80 15710911.92 15710912.06 0.0136 0.0098

Uranus 38303-02-27 17:31 G 15711000.07 15711000.23 15711000.40 0.0135 0.0072

Uranus 38303-05-27 00:43 G 15711088.35 15711088.53 15711088.71 0.0135 0.0045

Uranus 38303-08-23 07:55 G 15711176.64 15711176.83 15711177.02 0.0135 0.0019

Uranus 38303-11-19 15:07 G 15711264.94 15711265.13 15711265.32 0.0135 0.0007

Uranus 38304-02-15 22:05 G 15711353.24 15711353.42 15711353.61 0.0135 0.0033

Uranus 38304-05-14 05:17 G 15711441.55 15711441.72 15711441.89 0.0135 0.0059

Uranus 38304-08-10 12:00 G 15711529.86 15711530.00 15711530.16 0.0135 0.0084

Mars 38304-11-04 05:02 G 15711615.55 15711615.71 15711615.88 0.1612 0.0194

Uranus 38304-11-06 19:12 G 15711618.19 15711618.30 15711618.41 0.0135 0.0109

Uranus 38305-02-03 01:55 G 15711706.58 15711706.58 15711706.60 0.0135 0.0134

Venus 38306-04-22 05:45 G 15712149.64 15712149.74 15712149.85 0.3684 0.2583

Mars 38307-08-07 06:29 G 15712621.66 15712621.77 15712621.88 0.1927 0.0482

Jupiter 38308-06-13 09:07 G 15712932.69 15712932.88 15712933.06 0.0506 0.0019

Moon 38309-07-09 09:21 G 15713323.79 15713323.89 15713324.00 0.2652 0.0344

Earth 38309-07-09 10:05 G 15713323.82 15713323.92 15713324.03 0.2652 0.0399 *

Earth 38313-01-08 04:33 G 15714602.53 15714602.69 15714602.85 0.2680 0.0540

Moon 38313-01-08 05:17 G 15714602.56 15714602.72 15714602.89 0.2674 0.0562 *

Jupiter 38314-02-05 04:05 G 15714995.55 15714995.67 15714995.79 0.0520 0.0165

Mars 38314-03-27 07:12 G 15715045.68 15715045.80 15715045.92 0.1608 0.1117

Jupiter 38314-05-05 08:38 G 15715084.79 15715084.86 15715084.93 0.0518 0.0425

Saturn 38316-05-27 11:45 G 15715837.85 15715837.99 15715838.13 0.0285 0.0183

Saturn 38316-08-24 12:00 G 15715926.82 15715927.00 15715927.19 0.0286 0.0024

Saturn 38316-11-21 12:14 G 15716015.90 15716016.01 15716016.13 0.0287 0.0229

Mars 38316-12-27 14:38 G 15716052.09 15716052.11 15716052.13 0.1930 0.1887

Jupiter 38320-04-01 05:31 G 15717242.56 15717242.73 15717242.91 0.0506 0.0192

Moon 38322-07-12 02:38 G 15718074.53 15718074.61 15718074.70 0.2656 0.1591

Earth 38322-07-12 03:07 G 15718074.55 15718074.63 15718074.72 0.2652 0.1656 *

Jupiter 38325-11-24 08:53 G 15719305.77 15719305.87 15719305.97 0.0520 0.0308

Jupiter 38326-02-21 13:26 G 15719394.95 15719395.06 15719395.16 0.0518 0.0281

Moon 38329-07-05 04:48 G 15720624.63 15720624.70 15720624.77 0.2645 0.1923

Earth 38329-07-05 04:48 G 15720624.63 15720624.70 15720624.78 0.2653 0.1869 *

Saturn 38329-07-07 09:07 G 15720626.78 15720626.88 15720626.98 0.0278 0.0170

Saturn 38329-10-03 19:55 G 15720715.20 15720715.33 15720715.46 0.0277 0.0042

Saturn 38329-12-31 06:29 G 15720803.65 15720803.77 15720803.90 0.0276 0.0086

Saturn 38330-03-29 17:02 G 15720892.13 15720892.21 15720892.30 0.0275 0.0212

Jupiter 38332-01-19 01:12 G 15721552.45 15721552.55 15721552.66 0.0506 0.0411

Jupiter 38332-04-18 13:55 G 15721642.99 15721643.08 15721643.18 0.0508 0.0433

Venus 38336-09-30 02:38 G 15723268.56 15723268.61 15723268.66 0.3688 0.3182

Jupiter 38337-09-12 13:26 G 15723616.00 15723616.06 15723616.12 0.0520 0.0452

Mars 38337-09-14 22:19 G 15723618.34 15723618.43 15723618.53 0.1922 0.1077

Jupiter 38337-12-10 18:00 G 15723705.13 15723705.25 15723705.37 0.0518 0.0136

Venus 38342-04-15 18:43 G 15725292.18 15725292.28 15725292.38 0.3687 0.1221

Moon 38342-07-07 21:22 G 15725375.28 15725375.39 15725375.49 0.2649 0.0631

Earth 38342-07-07 21:50 G 15725375.31 15725375.41 15725375.52 0.2652 0.0615 *

Jupiter 38344-02-05 10:48 G 15725952.79 15725952.95 15725953.12 0.0507 0.0229

Mars 38344-05-05 05:46 G 15726042.58 15726042.74 15726042.90 0.1611 0.0407

Saturn 38345-10-14 10:34 G 15726569.83 15726569.94 15726570.04 0.0284 0.0236

Earth 38346-01-06 01:41 G 15726653.48 15726653.57 15726653.67 0.2679 0.2113

Moon 38346-01-06 03:22 G 15726653.54 15726653.64 15726653.75 0.2676 0.2015 *

Saturn 38346-01-11 10:48 G 15726658.77 15726658.95 15726659.14 0.0285 0.0031

Neptune 38346-02-17 09:22 G 15726695.86 15726695.89 15726695.95 0.0089 0.0083

Uranus 38346-02-18 02:10 G 15726696.53 15726696.59 15726696.66 0.0143 0.0124

Saturn 38346-04-10 11:02 G 15726747.82 15726747.96 15726748.11 0.0287 0.0175

Neptune 38346-05-16 10:34 G 15726783.89 15726783.94 15726784.02 0.0089 0.0076

Uranus 38346-05-17 05:46 G 15726784.65 15726784.74 15726784.83 0.0143 0.0103

Neptune 38346-08-12 12:14 G 15726871.93 15726872.01 15726872.09 0.0089 0.0068

Uranus 38346-08-13 09:22 G 15726872.78 15726872.89 15726873.00 0.0143 0.0082

Neptune 38346-11-08 13:26 G 15726959.97 15726960.06 15726960.16 0.0089 0.0061

Uranus 38346-11-09 12:58 G 15726960.92 15726961.04 15726961.16 0.0143 0.0061

Neptune 38347-02-04 14:38 G 15727048.01 15727048.11 15727048.22 0.0089 0.0054

Mars 38347-02-05 06:29 G 15727048.65 15727048.77 15727048.88 0.1926 0.0339

Uranus 38347-02-05 16:19 G 15727049.06 15727049.18 15727049.31 0.0143 0.0040

Neptune 38347-05-03 16:05 G 15727136.06 15727136.17 15727136.28 0.0089 0.0046

Uranus 38347-05-04 19:55 G 15727137.20 15727137.33 15727137.47 0.0143 0.0019

Neptune 38347-07-30 17:17 G 15727224.11 15727224.22 15727224.35 0.0089 0.0039

Uranus 38347-07-31 23:31 G 15727225.35 15727225.48 15727225.62 0.0143 0.0005

Neptune 38347-10-26 18:29 G 15727312.16 15727312.27 15727312.41 0.0089 0.0032

Uranus 38347-10-28 03:07 G 15727313.50 15727313.63 15727313.77 0.0143 0.0025

Venus 38347-10-30 10:48 G 15727315.85 15727315.95 15727316.06 0.3687 0.0799

Neptune 38348-01-22 20:10 G 15727400.21 15727400.34 15727400.46 0.0089 0.0024

Uranus 38348-01-24 06:43 G 15727401.66 15727401.78 15727401.91 0.0143 0.0047

Neptune 38348-04-19 21:22 G 15727488.26 15727488.39 15727488.52 0.0089 0.0016

Uranus 38348-04-21 10:19 G 15727489.82 15727489.93 15727490.06 0.0143 0.0069

Neptune 38348-07-16 22:34 G 15727576.31 15727576.44 15727576.58 0.0089 0.0010

Uranus 38348-07-18 13:55 G 15727577.99 15727578.08 15727578.20 0.0143 0.0091

Neptune 38348-10-13 00:00 G 15727664.37 15727664.50 15727664.63 0.0089 0.0002

Uranus 38348-10-14 17:46 G 15727666.16 15727666.24 15727666.33 0.0143 0.0112

Neptune 38349-01-09 01:12 G 15727752.42 15727752.55 15727752.69 0.0089 0.0006

Uranus 38349-01-10 21:22 G 15727754.36 15727754.39 15727754.45 0.0143 0.0135

Neptune 38349-04-07 02:38 G 15727840.48 15727840.61 15727840.74 0.0089 0.0013

Neptune 38349-07-04 03:50 G 15727928.53 15727928.66 15727928.79 0.0089 0.0021

Jupiter 38349-09-28 22:05 G 15728015.30 15728015.42 15728015.55 0.0519 0.0022

Neptune 38349-09-30 05:17 G 15728016.59 15728016.72 15728016.85 0.0089 0.0028

Neptune 38349-12-27 06:29 G 15728104.65 15728104.77 15728104.90 0.0089 0.0036

Neptune 38350-03-25 07:55 G 15728192.71 15728192.83 15728192.95 0.0089 0.0043

Neptune 38350-06-21 09:07 G 15728280.78 15728280.88 15728280.99 0.0088 0.0050

Neptune 38350-09-17 10:34 G 15728368.84 15728368.94 15728369.04 0.0088 0.0058

Neptune 38350-12-14 11:46 G 15728456.91 15728456.99 15728457.09 0.0088 0.0065

Neptune 38351-03-12 13:12 G 15728544.98 15728545.05 15728545.13 0.0088 0.0073

Neptune 38351-06-08 14:10 G 15728633.05 15728633.09 15728633.16 0.0088 0.0081

Neptune 38351-09-04 15:50 G 15728721.15 15728721.16 15728721.18 0.0088 0.0088

Venus 38353-05-15 03:07 G 15729339.56 15729339.63 15729339.70 0.3686 0.2821

Mars 38353-09-25 07:41 G 15729472.69 15729472.82 15729472.96 0.1608 0.0919

Moon 38355-07-10 14:10 G 15730125.99 15730126.09 15730126.20 0.2652 0.0512

Earth 38355-07-10 14:53 G 15730126.02 15730126.12 15730126.22 0.2652 0.0646 *

Jupiter 38355-11-24 07:41 G 15730262.63 15730262.82 15730263.00 0.0507 0.0026

Pluto 38356-05-05 23:02 G 15730426.36 15730426.46 15730426.56 0.0075 0.0065

Mars 38356-06-27 14:24 G 15730479.05 15730479.10 15730479.15 0.1931 0.1741

Pluto 38356-08-02 01:26 G 15730514.41 15730514.56 15730514.73 0.0075 0.0045

Pluto 38356-10-29 04:05 G 15730602.49 15730602.67 15730602.87 0.0075 0.0026

Pluto 38357-01-25 06:58 G 15730690.59 15730690.79 15730690.99 0.0075 0.0006

Pluto 38357-04-23 09:22 G 15730778.70 15730778.89 15730779.09 0.0075 0.0014

Venus 38357-05-13 01:12 G 15730798.41 15730798.55 15730798.70 0.3684 0.0886

Pluto 38357-07-20 12:00 G 15730866.82 15730867.00 15730867.18 0.0074 0.0033

Pluto 38357-10-16 14:38 G 15730954.97 15730955.11 15730955.25 0.0074 0.0052

Pluto 38358-01-12 16:34 G 15731043.16 15731043.19 15731043.27 0.0074 0.0071

Saturn 38358-11-24 11:46 G 15731358.90 15731358.99 15731359.07 0.0279 0.0208

Earth 38359-01-09 11:46 G 15731404.84 15731404.99 15731405.13 0.2680 0.1132

Moon 38359-01-09 12:00 G 15731404.85 15731405.00 15731405.15 0.2673 0.1263 *

Saturn 38359-02-20 22:19 G 15731447.31 15731447.43 15731447.56 0.0278 0.0079

Saturn 38359-05-20 09:07 G 15731535.75 15731535.88 15731536.01 0.0276 0.0049

Saturn 38359-08-16 19:41 G 15731624.22 15731624.32 15731624.42 0.0275 0.0176

Jupiter 38361-07-18 02:38 G 15732325.49 15732325.61 15732325.73 0.0520 0.0165

Jupiter 38361-10-15 07:12 G 15732414.73 15732414.80 15732414.87 0.0518 0.0424

Jupiter 38367-09-12 03:36 G 15734572.48 15734572.65 15734572.83 0.0506 0.0190

Moon 38368-07-12 07:26 G 15734876.74 15734876.81 15734876.89 0.2657 0.1891

Earth 38368-07-12 07:55 G 15734876.76 15734876.83 15734876.90 0.2652 0.1910 *

Jupiter 38373-05-06 07:12 G 15736635.71 15736635.80 15736635.91 0.0520 0.0310

Jupiter 38373-08-03 12:00 G 15736724.89 15736725.00 15736725.10 0.0518 0.0282

Saturn 38375-05-31 08:53 G 15737390.69 15737390.87 15737391.05 0.0285 0.0092

Moon 38375-07-06 09:22 G 15737426.81 15737426.89 15737426.98 0.2646 0.1583

Earth 38375-07-06 09:36 G 15737426.82 15737426.90 15737426.98 0.2652 0.1617 *

Saturn 38375-08-28 09:07 G 15737479.71 15737479.88 15737480.05 0.0286 0.0114

Mars 38377-03-15 22:19 G 15738045.35 15738045.43 15738045.52 0.1921 0.1240

Jupiter 38379-07-01 00:00 G 15738882.39 15738882.50 15738882.61 0.0506 0.0400

Jupiter 38379-09-29 12:29 G 15738972.93 15738973.02 15738973.11 0.0508 0.0442

Mars 38383-11-04 06:29 G 15740469.62 15740469.77 15740469.92 0.1612 0.0614

Jupiter 38385-02-22 12:00 G 15740945.95 15740946.00 15740946.07 0.0520 0.0451

Jupiter 38385-05-22 16:34 G 15741035.07 15741035.19 15741035.31 0.0518 0.0138

Mars 38386-08-06 06:29 G 15741475.65 15741475.77 15741475.88 0.1926 0.0181

Uranus 38386-09-24 08:53 G 15741524.79 15741524.87 15741524.96 0.0136 0.0122

Uranus 38386-12-21 16:05 G 15741613.04 15741613.17 15741613.32 0.0136 0.0096

Uranus 38387-03-19 23:31 G 15741701.32 15741701.48 15741701.65 0.0136 0.0069

Uranus 38387-06-16 06:43 G 15741789.60 15741789.78 15741789.97 0.0135 0.0042

Uranus 38387-09-12 13:55 G 15741877.89 15741878.08 15741878.27 0.0135 0.0016

Uranus 38387-12-09 21:07 G 15741966.19 15741966.38 15741966.57 0.0135 0.0010

Uranus 38388-03-07 04:05 G 15742054.49 15742054.67 15742054.86 0.0135 0.0036

Saturn 38388-04-12 13:55 G 15742091.03 15742091.08 15742091.14 0.0279 0.0248

Uranus 38388-06-03 11:02 G 15742142.80 15742142.96 15742143.14 0.0135 0.0062

Moon 38388-07-08 01:55 G 15742177.48 15742177.58 15742177.69 0.2649 0.0508

Earth 38388-07-08 02:38 G 15742177.50 15742177.61 15742177.72 0.2652 0.0359 *

Saturn 38388-07-10 00:43 G 15742179.41 15742179.53 15742179.65 0.0278 0.0119

Uranus 38388-08-30 18:14 G 15742231.12 15742231.26 15742231.41 0.0135 0.0087

Saturn 38388-10-06 11:17 G 15742267.84 15742267.97 15742268.11 0.0277 0.0014

Uranus 38388-11-27 00:58 G 15742319.45 15742319.54 15742319.66 0.0135 0.0113

Saturn 38389-01-02 22:05 G 15742356.31 15742356.42 15742356.53 0.0276 0.0137

Saturn 38389-04-01 08:38 G 15742444.83 15742444.86 15742444.90 0.0275 0.0264

Jupiter 38391-07-18 08:10 G 15743282.68 15743282.84 15743283.01 0.0508 0.0222

Earth 38392-01-07 08:53 G 15743455.73 15743455.87 15743456.00 0.2679 0.1507

Moon 38392-01-07 10:05 G 15743455.78 15743455.92 15743456.07 0.2675 0.1229 *

Mars 38393-03-26 08:38 G 15743899.71 15743899.86 15743900.01 0.1608 0.0700

Venus 38393-05-07 00:14 G 15743941.43 15743941.51 15743941.59 0.3688 0.2490

Mars 38395-12-27 14:24 G 15744906.04 15744906.10 15744906.17 0.1930 0.1568

Jupiter 38397-03-10 21:07 G 15745345.26 15745345.38 15745345.51 0.0519 0.0013

Venus 38398-11-20 16:19 G 15745965.08 15745965.18 15745965.28 0.3687 0.0507

Moon 38401-07-10 18:58 G 15746928.19 15746928.29 15746928.39 0.2653 0.0868

Earth 38401-07-10 19:41 G 15746928.22 15746928.32 15746928.42 0.2652 0.0906 *

Jupiter 38403-05-06 05:02 G 15747592.52 15747592.71 15747592.89 0.0507 0.0018

Venus 38404-06-05 08:24 G 15747988.76 15747988.85 15747988.95 0.3686 0.1508

Saturn 38404-10-17 08:10 G 15748122.68 15748122.84 15748123.01 0.0284 0.0140

Earth 38405-01-09 18:43 G 15748207.15 15748207.28 15748207.40 0.2680 0.1725

Moon 38405-01-09 18:58 G 15748207.16 15748207.29 15748207.42 0.2673 0.1643 *

Saturn 38405-01-14 08:24 G 15748211.67 15748211.85 15748212.04 0.0286 0.0066

Saturn 38405-04-13 08:38 G 15748300.81 15748300.86 15748300.92 0.0287 0.0271

Earth 38408-07-03 21:22 G 15749478.37 15749478.39 15749478.40 0.2653 0.2615

Moon 38408-07-03 21:36 G 15749478.37 15749478.40 15749478.42 0.2646 0.2572 *

Jupiter 38408-12-28 01:12 G 15749655.43 15749655.55 15749655.67 0.0519 0.0164

Jupiter 38409-03-27 05:46 G 15749744.67 15749744.74 15749744.81 0.0517 0.0426

Venus 38409-12-20 00:43 G 15750012.51 15750012.53 15750012.55 0.3686 0.3565

Venus 38413-12-18 02:24 G 15751471.46 15751471.60 15751471.75 0.3684 0.0851

Moon 38414-07-13 12:14 G 15751678.95 15751679.01 15751679.08 0.2658 0.2090

Earth 38414-07-13 12:43 G 15751678.97 15751679.03 15751679.09 0.2651 0.2171 *

Jupiter 38415-02-22 01:41 G 15751902.40 15751902.57 15751902.74 0.0506 0.0190

Mars 38416-09-13 22:19 G 15752472.35 15752472.43 15752472.51 0.1922 0.1386

Saturn 38417-11-27 03:36 G 15752911.54 15752911.65 15752911.76 0.0278 0.0152

Saturn 38418-02-23 14:10 G 15752999.96 15753000.09 15753000.22 0.0277 0.0025

Saturn 38418-05-23 00:58 G 15753088.42 15753088.54 15753088.66 0.0276 0.0105

Saturn 38418-08-19 11:31 G 15753176.92 15753176.98 15753177.05 0.0275 0.0232

Jupiter 38420-10-16 05:46 G 15753965.64 15753965.74 15753965.84 0.0520 0.0312

Jupiter 38421-01-13 10:19 G 15754054.82 15754054.93 15754055.03 0.0518 0.0277

Moon 38421-07-06 14:10 G 15754229.00 15754229.09 15754229.18 0.2647 0.1423

Earth 38421-07-06 14:24 G 15754229.00 15754229.10 15754229.19 0.2652 0.1364 *

Mars 38423-05-05 06:58 G 15754896.65 15754896.79 15754896.94 0.1612 0.0817

Mars 38426-02-04 06:29 G 15755902.65 15755902.77 15755902.88 0.1926 0.0021

Jupiter 38426-12-10 21:36 G 15756212.29 15756212.40 15756212.51 0.0506 0.0405

Jupiter 38427-03-11 10:05 G 15756302.83 15756302.92 15756303.01 0.0507 0.0437

Uranus 38429-12-12 06:00 G 15757309.73 15757309.75 15757309.78 0.0142 0.0139

Uranus 38430-03-10 09:36 G 15757397.83 15757397.90 15757397.97 0.0142 0.0119

Neptune 38430-04-27 06:14 G 15757445.72 15757445.76 15757445.80 0.0089 0.0086

Uranus 38430-06-06 12:43 G 15757485.95 15757486.03 15757486.14 0.0143 0.0099

Neptune 38430-07-24 09:50 G 15757533.81 15757533.91 15757534.01 0.0089 0.0075

Uranus 38430-09-02 16:34 G 15757574.08 15757574.19 15757574.30 0.0143 0.0077

Neptune 38430-10-20 12:58 G 15757621.93 15757622.04 15757622.20 0.0089 0.0065

Uranus 38430-11-29 20:10 G 15757662.22 15757662.34 15757662.46 0.0143 0.0056

Neptune 38431-01-16 16:48 G 15757710.06 15757710.20 15757710.37 0.0089 0.0054

Uranus 38431-02-25 23:46 G 15757750.36 15757750.49 15757750.61 0.0143 0.0035

Neptune 38431-04-14 20:24 G 15757798.20 15757798.35 15757798.54 0.0089 0.0043

Uranus 38431-05-25 03:07 G 15757838.50 15757838.63 15757838.77 0.0143 0.0014

Neptune 38431-07-12 00:14 G 15757886.33 15757886.51 15757886.70 0.0089 0.0032

Uranus 38431-08-21 06:43 G 15757926.65 15757926.78 15757926.92 0.0143 0.0009

Neptune 38431-10-08 03:50 G 15757974.48 15757974.66 15757974.85 0.0089 0.0021

Uranus 38431-11-17 10:19 G 15758014.81 15758014.93 15758015.07 0.0143 0.0030

Neptune 38432-01-04 07:26 G 15758062.62 15758062.81 15758063.01 0.0089 0.0010

Uranus 38432-02-13 14:10 G 15758102.96 15758103.09 15758103.21 0.0143 0.0051

Neptune 38432-04-01 11:02 G 15758150.77 15758150.96 15758151.16 0.0089 0.0002

Uranus 38432-05-11 17:46 G 15758191.13 15758191.24 15758191.35 0.0143 0.0073

Neptune 38432-06-28 14:38 G 15758238.92 15758239.11 15758239.31 0.0089 0.0012

Jupiter 38432-08-04 10:19 G 15758275.87 15758275.93 15758275.99 0.0521 0.0458

Uranus 38432-08-07 21:22 G 15758279.29 15758279.39 15758279.49 0.0143 0.0095

Mars 38432-09-24 09:22 G 15758326.73 15758326.89 15758327.04 0.1609 0.0495

Neptune 38432-09-24 18:00 G 15758327.07 15758327.25 15758327.45 0.0089 0.0023

Jupiter 38432-11-01 14:53 G 15758365.00 15758365.12 15758365.24 0.0519 0.0132

Uranus 38432-11-04 00:58 G 15758367.47 15758367.54 15758367.62 0.0143 0.0117

Neptune 38432-12-21 21:36 G 15758415.23 15758415.40 15758415.59 0.0089 0.0034

Uranus 38433-01-31 04:34 G 15758455.67 15758455.69 15758455.73 0.0143 0.0140

Neptune 38433-03-20 01:26 G 15758503.39 15758503.56 15758503.72 0.0089 0.0044

Neptune 38433-06-16 04:48 G 15758591.55 15758591.70 15758591.86 0.0089 0.0055

Neptune 38433-09-12 08:10 G 15758679.72 15758679.84 15758679.98 0.0089 0.0066

Neptune 38433-12-09 11:31 G 15758767.90 15758767.98 15758768.10 0.0089 0.0077

Saturn 38434-03-06 07:12 G 15758854.67 15758854.80 15758854.95 0.0284 0.0193

Neptune 38434-03-07 15:22 G 15758856.11 15758856.14 15758856.18 0.0089 0.0087

Saturn 38434-06-03 07:41 G 15758943.63 15758943.82 15758944.01 0.0286 0.0013

Moon 38434-07-09 06:43 G 15758979.67 15758979.78 15758979.89 0.2649 0.0144

Earth 38434-07-09 07:12 G 15758979.70 15758979.80 15758979.91 0.2652 0.0157 *

Saturn 38434-08-31 07:41 G 15759032.71 15759032.82 15759032.95 0.0287 0.0219

Mars 38435-06-27 14:24 G 15759333.03 15759333.10 15759333.18 0.1930 0.1413

Earth 38438-01-07 15:50 G 15760258.01 15760258.16 15760258.32 0.2680 0.0903

Moon 38438-01-07 16:48 G 15760258.05 15760258.20 15760258.36 0.2674 0.0862 *

Jupiter 38438-12-28 06:29 G 15760612.60 15760612.77 15760612.94 0.0507 0.0226

Jupiter 38444-08-20 19:41 G 15762675.19 15762675.32 15762675.44 0.0519 0.0015

Saturn 38447-04-16 06:14 G 15763643.67 15763643.76 15763643.85 0.0279 0.0188

Moon 38447-07-11 23:46 G 15763730.39 15763730.49 15763730.59 0.2655 0.1022

Earth 38447-07-12 00:14 G 15763730.42 15763730.51 15763730.61 0.2652 0.1161 *

Saturn 38447-07-13 16:48 G 15763732.08 15763732.20 15763732.33 0.0278 0.0060

Saturn 38447-10-10 03:36 G 15763820.52 15763820.65 15763820.78 0.0277 0.0069

Saturn 38448-01-06 14:10 G 15763909.00 15763909.09 15763909.19 0.0275 0.0197

Venus 38449-12-11 21:50 G 15764614.32 15764614.41 15764614.50 0.3687 0.1784

Jupiter 38450-10-16 01:55 G 15764922.39 15764922.58 15764922.77 0.0507 0.0003

Earth 38451-01-11 01:41 G 15765009.49 15765009.57 15765009.65 0.2680 0.2318

Moon 38451-01-11 01:41 G 15765009.51 15765009.57 15765009.64 0.2673 0.2434 *

Moon 38454-07-05 02:10 G 15766280.54 15766280.59 15766280.64 0.2646 0.2315

Earth 38454-07-05 01:55 G 15766280.54 15766280.58 15766280.63 0.2653 0.2361 *

Venus 38455-06-27 13:55 G 15766637.97 15766638.08 15766638.18 0.3687 0.0217

Mars 38456-03-14 22:19 G 15766899.37 15766899.43 15766899.50 0.1921 0.1555

Jupiter 38456-06-09 00:14 G 15766985.39 15766985.51 15766985.63 0.0519 0.0156

Jupiter 38456-09-06 04:34 G 15767074.63 15767074.69 15767074.77 0.0517 0.0433

Moon 38460-07-13 17:02 G 15768481.17 15768481.21 15768481.25 0.2657 0.2441

Earth 38460-07-13 17:17 G 15768481.18 15768481.22 15768481.27 0.2651 0.2431 *

Venus 38461-01-10 06:00 G 15768661.67 15768661.75 15768661.84 0.3686 0.2242

Jupiter 38462-08-03 22:19 G 15769232.26 15769232.43 15769232.61 0.0506 0.0206

Mars 38462-11-03 07:55 G 15769323.70 15769323.83 15769323.95 0.1612 0.1032

Saturn 38463-07-24 06:58 G 15769586.70 15769586.79 15769586.91 0.0284 0.0236

Saturn 38463-10-21 07:41 G 15769675.63 15769675.82 15769676.00 0.0285 0.0031

Saturn 38464-01-18 07:41 G 15769764.68 15769764.82 15769764.97 0.0286 0.0175

Venus 38465-01-07 21:50 G 15770120.31 15770120.41 15770120.50 0.3683 0.2714

Mars 38465-08-05 06:29 G 15770329.65 15770329.77 15770329.88 0.1926 0.0169

Moon 38467-07-07 18:43 G 15771031.18 15771031.28 15771031.37 0.2647 0.1158

Earth 38467-07-07 18:58 G 15771031.20 15771031.29 15771031.39 0.2652 0.1111 *

Jupiter 38468-03-28 04:05 G 15771295.58 15771295.67 15771295.77 0.0520 0.0315

Jupiter 38468-06-25 08:38 G 15771384.76 15771384.86 15771384.97 0.0518 0.0274

Venus 38470-07-25 03:36 G 15772144.55 15772144.65 15772144.76 0.3684 0.2575

Uranus 38470-10-14 15:07 G 15772226.05 15772226.13 15772226.23 0.0136 0.0118

Uranus 38471-01-10 22:19 G 15772314.30 15772314.43 15772314.59 0.0136 0.0092

Uranus 38471-04-09 05:46 G 15772402.58 15772402.74 15772402.92 0.0136 0.0065

Uranus 38471-07-06 12:58 G 15772490.87 15772491.04 15772491.23 0.0135 0.0039

Uranus 38471-10-02 20:24 G 15772579.16 15772579.35 15772579.54 0.0135 0.0012

Uranus 38471-12-30 03:36 G 15772667.46 15772667.65 15772667.84 0.0135 0.0014

Mars 38472-03-25 09:50 G 15772753.75 15772753.91 15772754.07 0.1609 0.0294

Uranus 38472-03-27 10:34 G 15772755.76 15772755.94 15772756.13 0.0135 0.0041

Uranus 38472-06-23 17:31 G 15772844.08 15772844.23 15772844.41 0.0135 0.0067

Uranus 38472-09-20 00:29 G 15772932.40 15772932.52 15772932.67 0.0135 0.0092

Uranus 38472-12-17 07:41 G 15773020.73 15773020.82 15773020.92 0.0135 0.0117

Jupiter 38474-05-22 18:58 G 15773542.19 15773542.29 15773542.40 0.0506 0.0412

Jupiter 38474-08-21 07:41 G 15773632.73 15773632.82 15773632.92 0.0508 0.0432

Mars 38474-12-26 14:24 G 15773760.01 15773760.10 15773760.19 0.1930 0.1258

Saturn 38476-09-02 09:22 G 15774375.81 15774375.89 15774375.97 0.0279 0.0219

Saturn 38476-11-29 19:55 G 15774464.21 15774464.33 15774464.46 0.0278 0.0090

Saturn 38477-02-26 06:43 G 15774552.65 15774552.78 15774552.91 0.0277 0.0039

Saturn 38477-05-25 17:31 G 15774641.12 15774641.23 15774641.33 0.0276 0.0167

Jupiter 38480-01-15 08:38 G 15775605.80 15775605.86 15775605.91 0.0520 0.0465

Jupiter 38480-04-13 12:58 G 15775694.92 15775695.04 15775695.16 0.0519 0.0124

Moon 38480-07-09 11:17 G 15775781.87 15775781.97 15775782.08 0.2650 0.0111

Earth 38480-07-09 12:00 G 15775781.89 15775782.00 15775782.11 0.2652 0.0150 *

Earth 38484-01-08 22:48 G 15777060.29 15777060.45 15777060.62 0.2680 0.0310

Moon 38484-01-08 23:46 G 15777060.32 15777060.49 15777060.65 0.2673 0.0146 *

Jupiter 38486-06-09 03:36 G 15777942.49 15777942.65 15777942.82 0.0507 0.0217

Jupiter 38492-01-31 17:31 G 15780005.10 15780005.23 15780005.36 0.0519 0.0023

Saturn 38492-12-10 06:58 G 15780318.78 15780318.79 15780318.81 0.0284 0.0282

Saturn 38493-03-09 07:26 G 15780407.63 15780407.81 15780407.99 0.0285 0.0078

Saturn 38493-06-06 07:41 G 15780496.65 15780496.82 15780496.99 0.0286 0.0128

Moon 38493-07-12 04:34 G 15780532.60 15780532.69 15780532.78 0.2656 0.1399

Earth 38493-07-12 05:02 G 15780532.62 15780532.71 15780532.80 0.2652 0.1413 *

Mars 38495-09-13 22:34 G 15781326.39 15781326.44 15781326.48 0.1921 0.1731

Jupiter 38498-03-27 23:46 G 15782252.31 15782252.49 15782252.68 0.0507 0.0006

Moon 38500-07-06 06:58 G 15783082.72 15783082.79 15783082.85 0.2646 0.2110

Earth 38500-07-06 06:43 G 15783082.72 15783082.78 15783082.84 0.2653 0.2105 *

Venus 38501-01-03 03:22 G 15783263.58 15783263.64 15783263.70 0.3688 0.3047

Mars 38502-05-05 08:24 G 15783750.75 15783750.85 15783750.96 0.1612 0.1236

Jupiter 38503-11-20 22:19 G 15784315.31 15784315.43 15784315.55 0.0520 0.0165

Jupiter 38504-02-18 02:53 G 15784404.55 15784404.62 15784404.69 0.0518 0.0424

Mars 38505-02-04 06:14 G 15784756.65 15784756.76 15784756.88 0.1926 0.0315

Saturn 38506-01-21 12:14 G 15785107.96 15785108.01 15785108.07 0.0279 0.0252

Saturn 38506-04-19 23:02 G 15785196.34 15785196.46 15785196.58 0.0278 0.0122

Moon 38506-07-15 22:05 G 15785283.40 15785283.42 15785283.43 0.2657 0.2621

Saturn 38506-07-17 09:50 G 15785284.77 15785284.91 15785285.04 0.0277 0.0011

Venus 38506-07-19 19:26 G 15785287.21 15785287.31 15785287.41 0.3687 0.1073

Saturn 38506-10-13 20:24 G 15785373.24 15785373.35 15785373.46 0.0276 0.0135

Saturn 38507-01-10 06:58 G 15785461.76 15785461.79 15785461.83 0.0275 0.0262

Jupiter 38510-01-14 18:58 G 15786562.12 15786562.29 15786562.46 0.0506 0.0224

Neptune 38510-08-19 07:55 G 15786778.82 15786778.83 15786778.87 0.0089 0.0087

Neptune 38510-11-15 09:07 G 15786866.84 15786866.88 15786866.95 0.0089 0.0080

Neptune 38511-02-11 10:48 G 15786954.88 15786954.95 15786955.03 0.0089 0.0072

Neptune 38511-05-10 12:00 G 15787042.91 15787043.00 15787043.09 0.0089 0.0065

Neptune 38511-08-06 13:12 G 15787130.96 15787131.05 15787131.16 0.0089 0.0058

Mars 38511-09-25 10:34 G 15787180.77 15787180.94 15787181.11 0.1609 0.0080

Neptune 38511-11-02 14:38 G 15787219.00 15787219.11 15787219.22 0.0089 0.0050

Neptune 38512-01-29 15:50 G 15787307.05 15787307.16 15787307.28 0.0089 0.0043

Venus 38512-02-02 11:31 G 15787310.88 15787310.98 15787311.08 0.3686 0.0936

Neptune 38512-04-26 17:02 G 15787395.10 15787395.21 15787395.34 0.0089 0.0036

Neptune 38512-07-23 18:29 G 15787483.15 15787483.27 15787483.40 0.0089 0.0028

Neptune 38512-10-19 19:55 G 15787571.20 15787571.33 15787571.46 0.0089 0.0021

Neptune 38513-01-15 21:07 G 15787659.25 15787659.38 15787659.51 0.0089 0.0013

Neptune 38513-04-13 22:34 G 15787747.30 15787747.44 15787747.57 0.0089 0.0006

Moon 38513-07-08 23:17 G 15787833.37 15787833.47 15787833.57 0.2647 0.0909

Earth 38513-07-08 23:46 G 15787833.39 15787833.49 15787833.59 0.2652 0.0852 *

Neptune 38513-07-10 23:46 G 15787835.36 15787835.49 15787835.62 0.0089 0.0002

Neptune 38513-10-07 00:58 G 15787923.41 15787923.54 15787923.68 0.0089 0.0010

Uranus 38514-01-02 13:41 G 15788011.02 15788011.07 15788011.11 0.0142 0.0133

Neptune 38514-01-03 02:24 G 15788011.47 15788011.60 15788011.73 0.0089 0.0016

Uranus 38514-03-31 17:02 G 15788099.14 15788099.21 15788099.29 0.0142 0.0112

Neptune 38514-04-01 03:36 G 15788099.53 15788099.65 15788099.78 0.0089 0.0024

Mars 38514-06-27 14:24 G 15788187.01 15788187.10 15788187.19 0.1930 0.1092

Uranus 38514-06-27 20:24 G 15788187.26 15788187.35 15788187.46 0.0143 0.0092

Neptune 38514-06-28 04:48 G 15788187.59 15788187.70 15788187.83 0.0089 0.0032

Uranus 38514-09-24 00:00 G 15788275.39 15788275.50 15788275.62 0.0143 0.0071

Neptune 38514-09-24 06:14 G 15788275.65 15788275.76 15788275.88 0.0089 0.0039

Uranus 38514-12-21 03:36 G 15788363.53 15788363.65 15788363.78 0.0143 0.0049

Neptune 38514-12-21 07:26 G 15788363.71 15788363.81 15788363.93 0.0088 0.0047 *

Uranus 38515-03-19 07:12 G 15788451.67 15788451.80 15788451.93 0.0143 0.0028

Neptune 38515-03-19 08:53 G 15788451.77 15788451.87 15788451.98 0.0088 0.0054 *

Uranus 38515-06-15 10:48 G 15788539.82 15788539.95 15788540.08 0.0143 0.0007

Neptune 38515-06-15 10:05 G 15788539.84 15788539.92 15788540.03 0.0088 0.0061 *

Jupiter 38515-09-09 02:53 G 15788625.52 15788625.62 15788625.72 0.0520 0.0311

Neptune 38515-09-11 11:31 G 15788627.90 15788627.98 15788628.07 0.0088 0.0069

Uranus 38515-09-11 14:24 G 15788627.97 15788628.10 15788628.23 0.0143 0.0015 *

Jupiter 38515-12-07 07:26 G 15788714.70 15788714.81 15788714.91 0.0518 0.0278

Neptune 38515-12-08 12:58 G 15788715.98 15788716.04 15788716.11 0.0088 0.0076

Uranus 38515-12-08 18:00 G 15788716.12 15788716.25 15788716.38 0.0143 0.0037

Neptune 38516-03-05 14:10 G 15788804.06 15788804.09 15788804.14 0.0088 0.0084

Uranus 38516-03-05 21:36 G 15788804.28 15788804.40 15788804.53 0.0143 0.0058

Uranus 38516-06-02 01:12 G 15788892.45 15788892.55 15788892.67 0.0143 0.0080

Pluto 38516-08-21 01:55 G 15788972.58 15788972.58 15788972.62 0.0069 0.0068

Uranus 38516-08-29 04:48 G 15788980.62 15788980.70 15788980.80 0.0143 0.0103

Pluto 38516-11-17 02:38 G 15789060.55 15789060.61 15789060.69 0.0069 0.0058

Uranus 38516-11-25 08:38 G 15789068.80 15789068.86 15789068.93 0.0143 0.0124

Pluto 38517-02-13 03:22 G 15789148.55 15789148.64 15789148.74 0.0069 0.0047

Pluto 38517-05-12 03:50 G 15789236.56 15789236.66 15789236.78 0.0069 0.0037

Pluto 38517-08-08 04:19 G 15789324.57 15789324.68 15789324.81 0.0069 0.0027

Venus 38517-08-18 03:36 G 15789334.59 15789334.65 15789334.71 0.3686 0.2988

Pluto 38517-11-04 05:02 G 15789412.58 15789412.71 15789412.84 0.0069 0.0017

Pluto 38518-01-31 05:31 G 15789500.60 15789500.73 15789500.87 0.0070 0.0007

Pluto 38518-04-29 06:14 G 15789588.63 15789588.76 15789588.89 0.0070 0.0004

Pluto 38518-07-26 06:43 G 15789676.65 15789676.78 15789676.91 0.0070 0.0014

Pluto 38518-10-22 07:12 G 15789764.68 15789764.80 15789764.93 0.0070 0.0025

Pluto 38519-01-18 07:41 G 15789852.71 15789852.82 15789852.94 0.0070 0.0036

Pluto 38519-04-16 08:10 G 15789940.75 15789940.84 15789940.95 0.0070 0.0046

Pluto 38519-07-13 08:38 G 15790028.80 15790028.86 15790028.95 0.0070 0.0057

Pluto 38519-10-09 09:36 G 15790116.87 15790116.90 15790116.93 0.0070 0.0068

Mars 38521-02-14 12:43 G 15790610.95 15790611.03 15790611.11 0.1606 0.1396

Venus 38521-08-15 23:02 G 15790793.32 15790793.46 15790793.61 0.3683 0.0919

Jupiter 38521-11-02 15:22 G 15790872.05 15790872.14 15790872.24 0.0506 0.0434

Jupiter 38522-02-01 04:05 G 15790962.57 15790962.67 15790962.78 0.0508 0.0411

Saturn 38522-07-28 07:26 G 15791139.64 15791139.81 15791139.99 0.0284 0.0120

Saturn 38522-10-25 07:41 G 15791228.65 15791228.82 15791229.01 0.0286 0.0086

Moon 38526-07-11 16:05 G 15792584.06 15792584.17 15792584.28 0.2651 0.0339

Earth 38526-07-11 16:48 G 15792584.09 15792584.20 15792584.30 0.2652 0.0412 *

Jupiter 38527-06-28 06:43 G 15792935.73 15792935.78 15792935.84 0.0520 0.0470

Jupiter 38527-09-25 11:17 G 15793024.85 15793024.97 15793025.09 0.0518 0.0118

Earth 38530-01-10 05:46 G 15793862.58 15793862.74 15793862.91 0.2680 0.0291

Moon 38530-01-10 06:43 G 15793862.61 15793862.78 15793862.94 0.2673 0.0345 *

Jupiter 38533-11-20 00:58 G 15795272.37 15795272.54 15795272.71 0.0507 0.0207

Mars 38535-03-15 22:19 G 15795753.41 15795753.43 15795753.45 0.1921 0.1868

Saturn 38535-06-10 15:50 G 15795840.16 15795840.16 15795840.17 0.0280 0.0279

Saturn 38535-09-07 02:24 G 15795928.50 15795928.60 15795928.72 0.0279 0.0150

Saturn 38535-12-04 13:12 G 15796016.92 15796017.05 15796017.18 0.0277 0.0020

Saturn 38536-03-01 23:46 G 15796105.37 15796105.49 15796105.61 0.0276 0.0109

Saturn 38536-05-29 10:34 G 15796193.87 15796193.94 15796194.01 0.0275 0.0235

Moon 38539-07-14 09:22 G 15797334.80 15797334.89 15797334.97 0.2656 0.1550

Earth 38539-07-14 09:50 G 15797334.82 15797334.91 15797334.99 0.2651 0.1670 *

Jupiter 38539-07-14 15:36 G 15797335.02 15797335.15 15797335.28 0.0519 0.0034

Mars 38541-11-03 09:07 G 15798177.81 15798177.88 15798177.95 0.1612 0.1439

Mars 38544-08-05 06:29 G 15799183.66 15799183.77 15799183.88 0.1926 0.0486

Jupiter 38545-09-07 20:53 G 15799582.18 15799582.37 15799582.55 0.0506 0.0011

Moon 38546-07-07 11:31 G 15799884.90 15799884.98 15799885.05 0.2646 0.1818

Earth 38546-07-07 11:31 G 15799884.90 15799884.98 15799885.05 0.2652 0.1853 *

Mars 38551-03-26 11:17 G 15801607.80 15801607.97 15801608.14 0.1609 0.0132

Jupiter 38551-05-02 19:55 G 15801645.22 15801645.33 15801645.45 0.0520 0.0183

Jupiter 38551-07-31 00:29 G 15801734.45 15801734.52 15801734.60 0.0518 0.0409

Saturn 38551-12-15 07:55 G 15801871.68 15801871.83 15801871.98 0.0285 0.0162

Saturn 38552-03-13 08:10 G 15801960.66 15801960.84 15801961.03 0.0286 0.0044

Saturn 38552-06-10 08:10 G 15802049.76 15802049.84 15802049.94 0.0287 0.0250

Mars 38553-12-26 14:24 G 15802614.00 15802614.10 15802614.20 0.1930 0.0930

Uranus 38554-11-04 21:22 G 15802927.30 15802927.39 15802927.51 0.0136 0.0114

Uranus 38555-02-01 05:02 G 15803015.57 15803015.71 15803015.86 0.0136 0.0087

Uranus 38555-04-30 12:14 G 15803103.84 15803104.01 15803104.19 0.0135 0.0060

Uranus 38555-07-27 19:41 G 15803192.13 15803192.32 15803192.50 0.0135 0.0034

Uranus 38555-10-24 02:53 G 15803280.43 15803280.62 15803280.81 0.0135 0.0007

Uranus 38556-01-20 09:50 G 15803368.73 15803368.91 15803369.11 0.0135 0.0020

Uranus 38556-04-17 17:02 G 15803457.04 15803457.21 15803457.39 0.0135 0.0045

Uranus 38556-07-15 00:00 G 15803545.35 15803545.50 15803545.67 0.0135 0.0071

Uranus 38556-10-11 07:12 G 15803633.67 15803633.80 15803633.93 0.0135 0.0096

Uranus 38557-01-07 13:55 G 15803722.02 15803722.08 15803722.17 0.0135 0.0122

Jupiter 38557-06-26 16:48 G 15803892.03 15803892.20 15803892.37 0.0506 0.0226

Venus 38557-08-10 00:58 G 15803936.46 15803936.54 15803936.62 0.3688 0.2339

Moon 38559-07-10 03:50 G 15804635.56 15804635.66 15804635.77 0.2647 0.0697

Earth 38559-07-10 04:34 G 15804635.58 15804635.69 15804635.79 0.2652 0.0609 *

Mars 38560-08-15 13:12 G 15805037.94 15805038.05 15805038.17 0.1606 0.1187

Earth 38563-01-08 02:53 G 15805913.55 15805913.62 15805913.70 0.2679 0.2355

Moon 38563-01-08 04:19 G 15805913.58 15805913.68 15805913.78 0.2674 0.2106 *

Jupiter 38563-02-19 00:43 G 15805955.44 15805955.53 15805955.63 0.0520 0.0325

Venus 38563-02-23 17:02 G 15805960.10 15805960.21 15805960.31 0.3687 0.0371

Jupiter 38563-05-19 05:17 G 15806044.62 15806044.72 15806044.83 0.0518 0.0266

Saturn 38565-01-24 05:31 G 15806660.64 15806660.73 15806660.84 0.0279 0.0180

Saturn 38565-04-22 16:19 G 15806749.05 15806749.18 15806749.31 0.0277 0.0050

Saturn 38565-07-20 02:53 G 15806837.50 15806837.62 15806837.75 0.0276 0.0079

Saturn 38565-10-16 13:41 G 15806925.98 15806926.07 15806926.15 0.0275 0.0206

Venus 38568-09-08 09:07 G 15807983.78 15807983.88 15807983.97 0.3686 0.1669

Jupiter 38569-04-14 11:46 G 15808201.91 15808201.99 15808202.07 0.0506 0.0454

Jupiter 38569-07-14 00:29 G 15808292.41 15808292.52 15808292.64 0.0508 0.0390

Moon 38572-07-11 20:53 G 15809386.26 15809386.37 15809386.47 0.2653 0.0577

Earth 38572-07-11 21:22 G 15809386.29 15809386.39 15809386.50 0.2652 0.0665 *

Jupiter 38574-12-08 05:17 G 15810265.68 15810265.72 15810265.78 0.0521 0.0470

Jupiter 38575-03-07 09:50 G 15810354.79 15810354.91 15810355.04 0.0519 0.0120

Earth 38576-01-11 12:58 G 15810664.88 15810665.04 15810665.19 0.2680 0.0892

Moon 38576-01-11 13:26 G 15810664.90 15810665.06 15810665.21 0.2673 0.0973 *

Venus 38578-03-23 00:29 G 15811466.38 15811466.52 15811466.66 0.3684 0.0856

Jupiter 38581-05-01 21:07 G 15812602.21 15812602.38 15812602.55 0.0507 0.0183

Saturn 38581-05-03 07:41 G 15812603.70 15812603.82 15812603.96 0.0284 0.0205

Saturn 38581-07-31 08:24 G 15812692.66 15812692.85 15812693.03 0.0285 0.0007

Saturn 38581-10-28 08:24 G 15812781.73 15812781.85 15812781.98 0.0286 0.0207

Mars 38584-02-04 06:14 G 15813610.65 15813610.76 15813610.87 0.1925 0.0633

Moon 38585-07-14 14:10 G 15814137.01 15814137.09 15814137.16 0.2656 0.1909

Earth 38585-07-14 14:24 G 15814137.03 15814137.10 15814137.18 0.2651 0.1929 *

Jupiter 38586-12-24 13:41 G 15814664.95 15814665.07 15814665.20 0.0519 0.0043

Mars 38590-09-24 11:46 G 15816034.83 15816034.99 15816035.16 0.1609 0.0333

Moon 38592-07-07 16:05 G 15816687.08 15816687.17 15816687.25 0.2646 0.1678

Earth 38592-07-07 16:05 G 15816687.09 15816687.17 15816687.26 0.2652 0.1600 *

Jupiter 38593-02-17 18:00 G 15816912.06 15816912.25 15816912.43 0.0507 0.0024

Mars 38593-06-26 14:24 G 15817040.99 15817041.10 15817041.20 0.1930 0.0778

Saturn 38594-06-13 09:07 G 15817392.80 15817392.88 15817392.97 0.0279 0.0206

Saturn 38594-09-09 19:55 G 15817481.20 15817481.33 15817481.45 0.0278 0.0076

Saturn 38594-12-07 06:29 G 15817569.64 15817569.77 15817569.90 0.0277 0.0053

Neptune 38595-01-23 04:48 G 15817616.64 15817616.70 15817616.79 0.0089 0.0081

Saturn 38595-03-05 17:02 G 15817658.12 15817658.21 15817658.32 0.0276 0.0181

Neptune 38595-04-21 08:38 G 15817704.75 15817704.86 15817704.98 0.0089 0.0070

Neptune 38595-07-18 12:14 G 15817792.87 15817793.01 15817793.16 0.0089 0.0059

Neptune 38595-10-14 15:50 G 15817881.00 15817881.16 15817881.33 0.0089 0.0048

Neptune 38596-01-10 19:41 G 15817969.14 15817969.32 15817969.49 0.0089 0.0037

Neptune 38596-04-07 23:17 G 15818057.28 15818057.47 15818057.65 0.0089 0.0026

Neptune 38596-07-05 02:38 G 15818145.43 15818145.61 15818145.81 0.0089 0.0016

Neptune 38596-10-01 06:29 G 15818233.57 15818233.77 15818233.96 0.0089 0.0004

Neptune 38596-12-28 10:05 G 15818321.72 15818321.92 15818322.11 0.0089 0.0006

Neptune 38597-03-26 13:26 G 15818409.88 15818410.06 15818410.26 0.0089 0.0018

Neptune 38597-06-22 17:02 G 15818498.03 15818498.21 15818498.40 0.0089 0.0028

Neptune 38597-09-18 20:38 G 15818586.19 15818586.36 15818586.54 0.0089 0.0039

Neptune 38597-12-16 00:00 G 15818674.35 15818674.50 15818674.67 0.0089 0.0050

Uranus 38598-01-22 21:07 G 15818712.33 15818712.38 15818712.44 0.0142 0.0126

Neptune 38598-03-14 03:22 G 15818762.52 15818762.64 15818762.80 0.0089 0.0061

Uranus 38598-04-21 00:43 G 15818800.44 15818800.53 15818800.62 0.0142 0.0106

Neptune 38598-06-10 07:12 G 15818850.69 15818850.80 15818850.92 0.0089 0.0071

Uranus 38598-07-18 04:05 G 15818888.57 15818888.67 15818888.78 0.0143 0.0085

Neptune 38598-09-06 10:34 G 15818938.88 15818938.94 15818939.03 0.0089 0.0082

Jupiter 38598-10-12 18:00 G 15818975.14 15818975.25 15818975.37 0.0520 0.0193

Uranus 38598-10-14 07:41 G 15818976.70 15818976.82 15818976.94 0.0143 0.0064

Jupiter 38599-01-09 22:34 G 15819064.36 15819064.44 15819064.52 0.0518 0.0397

Uranus 38599-01-10 11:17 G 15819064.84 15819064.97 15819065.10 0.0143 0.0043

Uranus 38599-04-08 14:53 G 15819152.99 15819153.12 15819153.25 0.0143 0.0021

Uranus 38599-07-05 18:29 G 15819241.14 15819241.27 15819241.40 0.0143 0.0002

Uranus 38599-10-01 22:05 G 15819329.29 15819329.42 15819329.55 0.0143 0.0022

Uranus 38599-12-29 01:41 G 15819417.44 15819417.57 15819417.70 0.0143 0.0043

Mars 38600-02-14 13:55 G 15819464.95 15819465.08 15819465.22 0.1606 0.0980

Uranus 38600-03-27 05:17 G 15819505.60 15819505.72 15819505.84 0.0143 0.0065

Uranus 38600-06-23 08:53 G 15819593.77 15819593.87 15819593.98 0.0143 0.0087

Uranus 38600-09-19 12:29 G 15819681.94 15819682.02 15819682.11 0.0143 0.0109

Uranus 38600-12-16 16:05 G 15819770.13 15819770.17 15819770.23 0.0143 0.0132

Pluto 38602-12-23 10:34 G 15820506.82 15820506.94 15820507.07 0.0075 0.0059

Pluto 38603-03-21 12:58 G 15820594.88 15820595.04 15820595.22 0.0075 0.0039

Pluto 38603-06-17 15:36 G 15820682.97 15820683.15 15820683.35 0.0075 0.0020

Pluto 38603-09-13 18:29 G 15820771.07 15820771.27 15820771.47 0.0075 0.0000

Pluto 38603-12-10 20:53 G 15820859.19 15820859.37 15820859.57 0.0075 0.0020

Pluto 38604-03-07 23:31 G 15820947.32 15820947.48 15820947.65 0.0074 0.0039

Pluto 38604-06-04 02:10 G 15821035.47 15821035.59 15821035.72 0.0074 0.0058

Jupiter 38604-12-07 13:41 G 15821221.91 15821222.07 15821222.24 0.0506 0.0238

Moon 38605-07-11 08:38 G 15821437.75 15821437.86 15821437.97 0.2648 0.0384

Earth 38605-07-11 09:07 G 15821437.78 15821437.88 15821437.99 0.2652 0.0347 *

Venus 38608-09-01 06:29 G 15822585.75 15822585.77 15822585.79 0.3688 0.3594

Earth 38609-01-09 10:05 G 15822715.79 15822715.92 15822716.04 0.2680 0.1746

Moon 38609-01-09 11:17 G 15822715.84 15822715.97 15822716.10 0.2674 0.1672 *

Jupiter 38610-08-01 22:34 G 15823285.34 15823285.44 15823285.53 0.0520 0.0342

Saturn 38610-09-21 07:55 G 15823335.75 15823335.83 15823335.93 0.0284 0.0248

Jupiter 38610-10-30 02:53 G 15823374.51 15823374.62 15823374.74 0.0518 0.0248

Saturn 38610-12-19 08:38 G 15823424.67 15823424.86 15823425.04 0.0285 0.0043

Saturn 38611-03-18 08:38 G 15823513.72 15823513.86 15823514.02 0.0287 0.0165

Venus 38614-03-17 22:34 G 15824609.34 15824609.44 15824609.53 0.3687 0.1631

Jupiter 38616-09-25 09:36 G 15825531.82 15825531.90 15825531.98 0.0505 0.0454

Jupiter 38616-12-24 22:19 G 15825622.31 15825622.43 15825622.55 0.0507 0.0388

Moon 38618-07-14 01:26 G 15826188.46 15826188.56 15826188.67 0.2654 0.0811

Earth 38618-07-14 02:10 G 15826188.49 15826188.59 15826188.69 0.2652 0.0915 *

Venus 38619-10-01 14:38 G 15826633.00 15826633.11 15826633.21 0.3687 0.0401

Earth 38622-01-12 19:55 G 15827467.19 15827467.33 15827467.46 0.2680 0.1492

Moon 38622-01-12 19:55 G 15827467.20 15827467.33 15827467.47 0.2674 0.1529 *

Jupiter 38622-05-21 03:22 G 15827595.59 15827595.64 15827595.68 0.0521 0.0484

Jupiter 38622-08-18 07:41 G 15827684.70 15827684.82 15827684.95 0.0519 0.0107

Mars 38623-08-06 06:14 G 15828037.66 15828037.76 15828037.87 0.1925 0.0796

Saturn 38623-11-01 12:29 G 15828124.96 15828125.02 15828125.09 0.0279 0.0234

Saturn 38624-01-28 23:17 G 15828213.35 15828213.47 15828213.59 0.0278 0.0104

Saturn 38624-04-26 09:50 G 15828301.78 15828301.91 15828302.04 0.0277 0.0024

Saturn 38624-07-23 20:24 G 15828390.25 15828390.35 15828390.46 0.0276 0.0152

Venus 38625-04-16 06:43 G 15828656.70 15828656.78 15828656.86 0.3686 0.2405

Earth 38625-07-07 03:50 G 15828738.64 15828738.66 15828738.68 0.2653 0.2592

Moon 38625-07-07 04:19 G 15828738.66 15828738.68 15828738.69 0.2647 0.2594 *

Jupiter 38628-10-12 17:31 G 15829932.06 15829932.23 15829932.41 0.0507 0.0163

Venus 38629-04-13 19:41 G 15830115.22 15830115.32 15830115.42 0.3683 0.2740

Mars 38630-03-26 12:43 G 15830461.87 15830462.03 15830462.18 0.1609 0.0550

Moon 38631-07-16 18:58 G 15830939.23 15830939.29 15830939.35 0.2657 0.2127

Earth 38631-07-16 19:12 G 15830939.24 15830939.30 15830939.36 0.2651 0.2183 *

Mars 38632-12-26 14:24 G 15831467.99 15831468.10 15831468.21 0.1930 0.0605

Jupiter 38634-06-06 12:14 G 15831994.89 15831995.01 15831995.14 0.0519 0.0042

Venus 38634-10-29 01:41 G 15832139.47 15832139.57 15832139.67 0.3684 0.2598

Moon 38638-07-09 20:38 G 15833489.27 15833489.36 15833489.45 0.2646 0.1320

Earth 38638-07-09 20:53 G 15833489.28 15833489.37 15833489.46 0.2652 0.1345 *

Uranus 38638-08-29 21:07 G 15833540.37 15833540.38 15833540.42 0.0136 0.0134

Uranus 38638-11-26 04:48 G 15833628.58 15833628.70 15833628.82 0.0136 0.0107

Uranus 38639-02-22 11:46 G 15833716.85 15833716.99 15833717.16 0.0135 0.0081

Uranus 38639-05-21 19:12 G 15833805.13 15833805.30 15833805.49 0.0135 0.0054

Mars 38639-08-16 14:38 G 15833891.96 15833892.11 15833892.26 0.1606 0.0772

Uranus 38639-08-18 02:38 G 15833893.42 15833893.61 15833893.80 0.0135 0.0027

Uranus 38639-11-14 09:50 G 15833981.72 15833981.91 15833982.10 0.0135 0.0002

Uranus 38640-02-10 17:02 G 15834070.02 15834070.21 15834070.40 0.0135 0.0026

Saturn 38640-05-07 08:10 G 15834156.67 15834156.84 15834157.03 0.0285 0.0088

Uranus 38640-05-09 00:14 G 15834158.33 15834158.51 15834158.68 0.0135 0.0052

Jupiter 38640-07-31 14:10 G 15834241.90 15834242.09 15834242.27 0.0507 0.0045

Saturn 38640-08-04 08:24 G 15834245.69 15834245.85 15834246.03 0.0286 0.0119

Uranus 38640-08-05 07:12 G 15834246.65 15834246.80 15834246.96 0.0135 0.0077

Uranus 38640-11-01 14:10 G 15834334.98 15834335.09 15834335.22 0.0135 0.0103

Uranus 38641-01-28 21:07 G 15834423.33 15834423.38 15834423.44 0.0135 0.0128

Jupiter 38646-03-25 16:05 G 15836305.06 15836305.17 15836305.29 0.0520 0.0201

Jupiter 38646-06-22 20:38 G 15836394.28 15836394.36 15836394.45 0.0518 0.0389

Moon 38651-07-12 13:12 G 15838239.95 15838240.05 15838240.16 0.2650 0.0235

Earth 38651-07-12 13:55 G 15838239.97 15838240.08 15838240.19 0.2652 0.0106 *

Jupiter 38652-05-19 10:48 G 15838551.79 15838551.95 15838552.12 0.0506 0.0249

Saturn 38653-03-20 16:05 G 15838857.13 15838857.17 15838857.22 0.0279 0.0261

Saturn 38653-06-17 02:53 G 15838945.50 15838945.62 15838945.73 0.0278 0.0131

Saturn 38653-09-13 13:26 G 15839033.93 15839034.06 15839034.19 0.0277 0.0002

Saturn 38653-12-11 00:00 G 15839122.39 15839122.50 15839122.62 0.0276 0.0126

Saturn 38654-03-09 10:48 G 15839210.90 15839210.95 15839211.00 0.0275 0.0253

Earth 38655-01-10 17:02 G 15839518.06 15839518.21 15839518.36 0.2680 0.1146

Moon 38655-01-10 18:14 G 15839518.10 15839518.26 15839518.42 0.2674 0.0888 *

Jupiter 38658-01-11 20:38 G 15840615.26 15840615.36 15840615.45 0.0520 0.0351

Jupiter 38658-04-11 00:58 G 15840704.43 15840704.54 15840704.65 0.0518 0.0238

Mars 38663-02-04 06:29 G 15842464.67 15842464.77 15842464.87 0.1925 0.0973

Jupiter 38664-03-07 06:43 G 15842861.71 15842861.78 15842861.86 0.0505 0.0463

Jupiter 38664-06-05 19:26 G 15842952.20 15842952.31 15842952.44 0.0507 0.0380

Moon 38664-07-14 06:14 G 15842990.66 15842990.76 15842990.86 0.2654 0.1109

Earth 38664-07-14 06:58 G 15842990.69 15842990.79 15842990.88 0.2652 0.1174 *

Venus 38665-04-08 04:05 G 15843258.61 15843258.67 15843258.73 0.3688 0.2894

Moon 38668-01-14 02:38 G 15844269.50 15844269.61 15844269.72 0.2673 0.1975

Earth 38668-01-14 02:53 G 15844269.52 15844269.62 15844269.72 0.2680 0.2086 *

Saturn 38669-09-24 08:10 G 15844888.68 15844888.84 15844889.01 0.0285 0.0134

Mars 38669-09-24 13:12 G 15844888.91 15844889.05 15844889.20 0.1609 0.0756 *

Jupiter 38669-10-31 00:58 G 15844925.51 15844925.54 15844925.57 0.0521 0.0501

Saturn 38669-12-22 08:38 G 15844977.68 15844977.86 15844978.04 0.0286 0.0073

Jupiter 38670-01-28 05:31 G 15845014.60 15845014.73 15845014.85 0.0519 0.0090

Saturn 38670-03-21 08:38 G 15845066.83 15845066.86 15845066.91 0.0287 0.0281

Venus 38670-10-22 19:55 G 15845282.23 15845282.33 15845282.44 0.3687 0.0929

Moon 38671-07-08 08:53 G 15845540.81 15845540.87 15845540.92 0.2646 0.2281

Earth 38671-07-08 08:38 G 15845540.81 15845540.86 15845540.91 0.2653 0.2339 *

Mars 38672-06-26 14:24 G 15845894.99 15845895.10 15845895.21 0.1929 0.0452

Neptune 38675-05-17 07:41 G 15846949.80 15846949.82 15846949.88 0.0089 0.0084

Neptune 38675-08-13 09:22 G 15847037.83 15847037.89 15847037.96 0.0089 0.0076

Neptune 38675-11-09 10:34 G 15847125.86 15847125.94 15847126.03 0.0089 0.0069

Neptune 38676-02-05 11:46 G 15847213.91 15847213.99 15847214.09 0.0089 0.0062

Jupiter 38676-03-24 15:36 G 15847261.97 15847262.15 15847262.33 0.0507 0.0165

Neptune 38676-05-03 13:12 G 15847301.95 15847302.05 15847302.16 0.0089 0.0054

Venus 38676-05-07 12:00 G 15847305.90 15847306.00 15847306.10 0.3687 0.1098

Neptune 38676-07-30 14:24 G 15847389.99 15847390.10 15847390.22 0.0089 0.0047

Neptune 38676-10-26 15:36 G 15847478.04 15847478.15 15847478.28 0.0089 0.0040

Neptune 38677-01-22 17:02 G 15847566.09 15847566.21 15847566.34 0.0089 0.0032

Neptune 38677-04-20 18:29 G 15847654.14 15847654.27 15847654.40 0.0089 0.0025

Moon 38677-07-16 23:46 G 15847741.45 15847741.49 15847741.53 0.2658 0.2415

Earth 38677-07-17 00:00 G 15847741.46 15847741.50 15847741.54 0.2651 0.2438 *

Neptune 38677-07-17 19:41 G 15847742.19 15847742.32 15847742.45 0.0089 0.0017

Neptune 38677-10-13 20:53 G 15847830.24 15847830.37 15847830.51 0.0089 0.0011

Neptune 38678-01-09 22:19 G 15847918.30 15847918.43 15847918.56 0.0089 0.0002

Neptune 38678-04-07 23:31 G 15848006.35 15848006.48 15848006.62 0.0089 0.0006

Neptune 38678-07-05 00:58 G 15848094.41 15848094.54 15848094.67 0.0089 0.0012

Neptune 38678-10-01 02:10 G 15848182.46 15848182.59 15848182.72 0.0089 0.0020

Neptune 38678-12-28 03:22 G 15848270.52 15848270.64 15848270.77 0.0089 0.0028

Mars 38679-02-14 15:22 G 15848318.99 15848319.14 15848319.30 0.1606 0.0560

Neptune 38679-03-26 04:48 G 15848358.58 15848358.70 15848358.82 0.0089 0.0035

Neptune 38679-06-22 06:00 G 15848446.64 15848446.75 15848446.87 0.0089 0.0042

Neptune 38679-09-18 07:26 G 15848534.70 15848534.81 15848534.92 0.0089 0.0049

Neptune 38679-12-15 08:53 G 15848622.77 15848622.87 15848622.97 0.0088 0.0057

Neptune 38680-03-12 09:50 G 15848710.83 15848710.91 15848711.01 0.0088 0.0065

Neptune 38680-06-08 11:31 G 15848798.90 15848798.98 15848799.05 0.0088 0.0072

Neptune 38680-09-04 12:29 G 15848886.98 15848887.02 15848887.09 0.0088 0.0080

Neptune 38680-12-01 14:10 G 15848975.07 15848975.09 15848975.11 0.0088 0.0087

Jupiter 38681-11-16 10:19 G 15849324.80 15849324.93 15849325.05 0.0520 0.0056

Mars 38681-11-16 22:34 G 15849325.41 15849325.44 15849325.47 0.1933 0.1857

Uranus 38681-11-17 00:58 G 15849325.53 15849325.54 15849325.55 0.0142 0.0142

Venus 38681-11-21 04:19 G 15849329.63 15849329.68 15849329.73 0.3686 0.3150

Uranus 38682-02-13 04:34 G 15849413.62 15849413.69 15849413.76 0.0142 0.0121

Uranus 38682-05-12 07:55 G 15849501.74 15849501.83 15849501.93 0.0142 0.0100

Uranus 38682-08-08 11:31 G 15849589.87 15849589.98 15849590.09 0.0143 0.0079

Saturn 38682-11-04 06:00 G 15849677.65 15849677.75 15849677.86 0.0278 0.0160

Uranus 38682-11-04 15:07 G 15849678.01 15849678.13 15849678.25 0.0143 0.0058

Saturn 38683-01-31 16:48 G 15849766.07 15849766.20 15849766.33 0.0277 0.0032

Uranus 38683-01-31 18:43 G 15849766.15 15849766.28 15849766.41 0.0143 0.0037 *

Uranus 38683-04-29 22:19 G 15849854.29 15849854.43 15849854.56 0.0143 0.0016

Saturn 38683-04-30 03:22 G 15849854.52 15849854.64 15849854.76 0.0276 0.0097 *

Uranus 38683-07-27 01:55 G 15849942.44 15849942.58 15849942.71 0.0143 0.0007

Saturn 38683-07-27 13:55 G 15849943.01 15849943.08 15849943.16 0.0275 0.0224

Uranus 38683-10-23 05:17 G 15850030.60 15850030.72 15850030.86 0.0143 0.0028

Uranus 38684-01-19 09:07 G 15850118.75 15850118.88 15850119.00 0.0143 0.0049

Uranus 38684-04-16 12:43 G 15850206.91 15850207.03 15850207.14 0.0143 0.0071

Moon 38684-07-10 01:12 G 15850291.46 15850291.55 15850291.65 0.2646 0.1189

Earth 38684-07-10 01:41 G 15850291.47 15850291.57 15850291.66 0.2652 0.1090 *

Uranus 38684-07-13 16:05 G 15850295.08 15850295.17 15850295.28 0.0143 0.0094

Uranus 38684-10-09 19:55 G 15850383.26 15850383.33 15850383.41 0.0143 0.0115

Uranus 38685-01-05 23:31 G 15850471.45 15850471.48 15850471.52 0.0143 0.0137

Venus 38685-11-18 20:53 G 15850788.23 15850788.37 15850788.52 0.3683 0.0960

Jupiter 38688-01-11 10:48 G 15851571.77 15851571.95 15851572.14 0.0506 0.0061

Jupiter 38693-09-04 14:53 G 15853635.00 15853635.12 15853635.24 0.0520 0.0198

Jupiter 38693-12-02 19:26 G 15853724.23 15853724.31 15853724.39 0.0518 0.0392

Moon 38697-07-12 18:00 G 15855042.14 15855042.25 15855042.35 0.2651 0.0152

Earth 38697-07-12 18:29 G 15855042.17 15855042.27 15855042.38 0.2652 0.0202 *

Saturn 38699-02-11 07:12 G 15855620.66 15855620.80 15855620.94 0.0284 0.0187

Saturn 38699-05-11 07:26 G 15855709.63 15855709.81 15855710.00 0.0285 0.0022

Saturn 38699-08-08 07:55 G 15855798.72 15855798.83 15855798.94 0.0287 0.0227

Jupiter 38699-10-30 07:26 G 15855881.65 15855881.81 15855881.97 0.0506 0.0267

Earth 38701-01-12 00:00 G 15856320.34 15856320.50 15856320.66 0.2680 0.0550

Moon 38701-01-12 00:58 G 15856320.38 15856320.54 15856320.70 0.2674 0.0536 *

Mars 38702-08-06 06:14 G 15856891.67 15856891.76 15856891.85 0.1925 0.1117

Jupiter 38705-06-24 18:43 G 15857945.19 15857945.28 15857945.37 0.0520 0.0357

Jupiter 38705-09-21 23:17 G 15858034.36 15858034.47 15858034.58 0.0518 0.0232

Mars 38709-03-26 13:55 G 15859315.94 15859316.08 15859316.21 0.1609 0.0956

Moon 38710-07-16 11:02 G 15859792.87 15859792.96 15859793.05 0.2654 0.1312

Earth 38710-07-16 11:46 G 15859792.90 15859792.99 15859793.08 0.2652 0.1433 *

Jupiter 38711-08-19 04:19 G 15860191.61 15860191.68 15860191.74 0.0506 0.0470

Jupiter 38711-11-17 17:02 G 15860282.09 15860282.21 15860282.33 0.0507 0.0375

Mars 38711-12-27 14:24 G 15860321.98 15860322.10 15860322.21 0.1930 0.0291

Saturn 38712-03-24 09:36 G 15860409.80 15860409.90 15860409.99 0.0279 0.0188

Saturn 38712-06-20 20:10 G 15860498.21 15860498.34 15860498.47 0.0278 0.0059

Saturn 38712-09-17 06:43 G 15860586.66 15860586.78 15860586.91 0.0276 0.0071

Saturn 38712-12-14 17:31 G 15860675.14 15860675.23 15860675.32 0.0275 0.0198

Earth 38714-01-15 09:50 G 15861071.91 15861071.91 15861071.92 0.2680 0.2675

Jupiter 38717-04-12 23:17 G 15862255.44 15862255.47 15862255.49 0.0521 0.0507

Moon 38717-07-09 13:26 G 15862342.99 15862343.06 15862343.12 0.2646 0.2103

Earth 38717-07-09 13:26 G 15862342.99 15862343.06 15862343.12 0.2652 0.2089 *

Jupiter 38717-07-11 03:36 G 15862344.53 15862344.65 15862344.78 0.0519 0.0082

Mars 38718-08-16 16:05 G 15862746.01 15862746.17 15862746.33 0.1606 0.0352

Mars 38721-05-18 22:34 G 15863752.38 15863752.44 15863752.49 0.1933 0.1689

Venus 38721-11-14 01:41 G 15863931.48 15863931.57 15863931.65 0.3688 0.2195

Uranus 38722-09-20 04:05 G 15864241.62 15864241.67 15864241.74 0.0136 0.0128

Uranus 38722-12-17 11:31 G 15864329.86 15864329.98 15864330.12 0.0135 0.0101

Uranus 38723-03-15 18:43 G 15864418.13 15864418.28 15864418.45 0.0135 0.0075

Uranus 38723-06-12 02:10 G 15864506.42 15864506.59 15864506.78 0.0135 0.0048

Jupiter 38723-09-05 13:12 G 15864591.88 15864592.05 15864592.23 0.0507 0.0162

Uranus 38723-09-08 09:36 G 15864594.71 15864594.90 15864595.09 0.0135 0.0021

Uranus 38723-12-05 16:48 G 15864683.01 15864683.20 15864683.39 0.0135 0.0005

Uranus 38724-03-03 00:00 G 15864771.31 15864771.50 15864771.68 0.0135 0.0032

Uranus 38724-05-30 06:58 G 15864859.62 15864859.79 15864859.97 0.0135 0.0057

Uranus 38724-08-26 13:55 G 15864947.94 15864948.08 15864948.24 0.0135 0.0083

Uranus 38724-11-22 20:53 G 15865036.27 15865036.37 15865036.49 0.0135 0.0109

Uranus 38725-02-19 03:50 G 15865124.66 15865124.66 15865124.69 0.0135 0.0134

Venus 38727-05-30 17:31 G 15865955.13 15865955.23 15865955.33 0.3687 0.0210

Saturn 38728-07-01 06:14 G 15866352.67 15866352.76 15866352.87 0.0284 0.0238

Saturn 38728-09-28 06:58 G 15866441.60 15866441.79 15866441.98 0.0286 0.0031

Saturn 38728-12-26 07:12 G 15866530.66 15866530.80 15866530.95 0.0287 0.0177

Jupiter 38729-04-29 07:55 G 15866654.71 15866654.83 15866654.96 0.0520 0.0071

Moon 38730-07-12 06:00 G 15867093.64 15867093.75 15867093.85 0.2647 0.0850

Earth 38730-07-12 06:14 G 15867093.66 15867093.76 15867093.87 0.2652 0.0841 *

Venus 38732-12-13 09:36 G 15867978.81 15867978.90 15867978.99 0.3687 0.1825

Jupiter 38735-06-24 09:22 G 15868901.70 15868901.89 15868902.07 0.0506 0.0053

Jupiter 38741-02-15 12:43 G 15870964.92 15870965.03 15870965.15 0.0520 0.0210

Jupiter 38741-05-15 17:17 G 15871054.14 15871054.22 15871054.31 0.0518 0.0382

Saturn 38741-08-11 12:43 G 15871141.95 15871142.03 15871142.10 0.0278 0.0219

Saturn 38741-11-07 23:17 G 15871230.35 15871230.47 15871230.59 0.0277 0.0090

Mars 38742-02-04 06:14 G 15871318.68 15871318.76 15871318.85 0.1925 0.1280

Saturn 38742-02-04 09:50 G 15871318.78 15871318.91 15871319.04 0.0276 0.0039 *

Saturn 38742-05-03 20:24 G 15871407.25 15871407.35 15871407.46 0.0275 0.0166

Venus 38742-06-26 22:19 G 15871461.28 15871461.43 15871461.57 0.3684 0.0833

Moon 38743-07-14 22:34 G 15871844.34 15871844.44 15871844.55 0.2651 0.0279

Earth 38743-07-14 23:17 G 15871844.37 15871844.47 15871844.58 0.2652 0.0427 *

Earth 38747-01-13 06:58 G 15873122.63 15873122.79 15873122.96 0.2680 0.0081

Moon 38747-01-13 07:26 G 15873122.65 15873122.81 15873122.98 0.2673 0.0215 *

Jupiter 38747-04-12 04:48 G 15873211.54 15873211.70 15873211.85 0.0506 0.0275

Mars 38748-09-24 14:38 G 15873743.00 15873743.11 15873743.22 0.1609 0.1172

Mars 38751-06-27 14:24 G 15874748.98 15874749.10 15874749.21 0.1929 0.0127

Jupiter 38752-12-04 17:31 G 15875275.14 15875275.23 15875275.32 0.0521 0.0352

Jupiter 38753-03-03 22:05 G 15875364.31 15875364.42 15875364.53 0.0519 0.0238

Moon 38756-07-16 15:50 G 15876595.08 15876595.16 15876595.25 0.2656 0.1680

Earth 38756-07-16 16:19 G 15876595.10 15876595.18 15876595.26 0.2651 0.1687 *

Mars 38758-02-14 16:48 G 15877173.03 15877173.20 15877173.36 0.1606 0.0148

Saturn 38758-02-15 05:02 G 15877173.54 15877173.71 15877173.89 0.0285 0.0090

Saturn 38758-05-15 05:31 G 15877262.56 15877262.73 15877262.90 0.0286 0.0118

Jupiter 38759-01-29 01:12 G 15877521.50 15877521.55 15877521.61 0.0505 0.0482

Jupiter 38759-04-29 13:55 G 15877611.96 15877612.08 15877612.21 0.0507 0.0363

Neptune 38759-07-25 23:46 G 15877699.48 15877699.49 15877699.56 0.0089 0.0087

Neptune 38759-10-22 03:36 G 15877787.57 15877787.65 15877787.77 0.0089 0.0076

Neptune 38760-01-18 07:12 G 15877875.69 15877875.80 15877875.95 0.0089 0.0065

Neptune 38760-04-15 11:02 G 15877963.82 15877963.96 15877964.13 0.0089 0.0054

Neptune 38760-07-12 14:38 G 15878051.95 15878052.11 15878052.29 0.0089 0.0043

Neptune 38760-10-08 18:29 G 15878140.09 15878140.27 15878140.46 0.0089 0.0032

Mars 38760-11-16 22:19 G 15878179.37 15878179.43 15878179.50 0.1933 0.1546

Neptune 38761-01-04 22:05 G 15878228.24 15878228.42 15878228.62 0.0089 0.0021

Neptune 38761-04-03 01:41 G 15878316.38 15878316.57 15878316.77 0.0089 0.0010

Neptune 38761-06-30 05:31 G 15878404.53 15878404.73 15878404.92 0.0089 0.0002

Neptune 38761-09-26 09:07 G 15878492.69 15878492.88 15878493.07 0.0089 0.0012

Neptune 38761-12-23 12:43 G 15878580.84 15878581.03 15878581.21 0.0089 0.0023

Neptune 38762-03-21 16:05 G 15878669.00 15878669.17 15878669.36 0.0089 0.0034

Neptune 38762-06-17 19:26 G 15878757.16 15878757.31 15878757.49 0.0089 0.0045

Neptune 38762-09-13 23:02 G 15878845.32 15878845.46 15878845.62 0.0089 0.0056

Neptune 38762-12-11 02:24 G 15878933.50 15878933.60 15878933.75 0.0089 0.0067

Neptune 38763-03-09 06:14 G 15879021.68 15879021.76 15879021.86 0.0089 0.0077

Pluto 38763-04-09 14:53 G 15879053.12 15879053.12 15879053.15 0.0069 0.0068

Neptune 38763-06-05 09:36 G 15879109.89 15879109.90 15879109.94 0.0089 0.0088

Pluto 38763-07-06 15:22 G 15879141.08 15879141.14 15879141.22 0.0069 0.0058

Moon 38763-07-10 18:00 G 15879145.17 15879145.25 15879145.33 0.2645 0.1826

Earth 38763-07-10 18:00 G 15879145.18 15879145.25 15879145.33 0.2652 0.1835 *

Pluto 38763-10-02 15:50 G 15879229.08 15879229.16 15879229.27 0.0069 0.0049

Pluto 38763-12-29 16:34 G 15879317.09 15879317.19 15879317.31 0.0069 0.0038

Pluto 38764-03-26 17:17 G 15879405.10 15879405.22 15879405.34 0.0069 0.0027

Pluto 38764-06-22 17:46 G 15879493.12 15879493.24 15879493.37 0.0069 0.0017

Pluto 38764-09-18 18:14 G 15879581.14 15879581.26 15879581.40 0.0069 0.0008

Jupiter 38764-09-22 21:36 G 15879585.38 15879585.40 15879585.42 0.0521 0.0509

Pluto 38764-12-15 18:58 G 15879669.16 15879669.29 15879669.42 0.0070 0.0004

Jupiter 38764-12-21 01:55 G 15879674.46 15879674.58 15879674.71 0.0519 0.0082

Pluto 38765-03-13 19:26 G 15879757.18 15879757.31 15879757.44 0.0070 0.0014

Pluto 38765-06-09 19:55 G 15879845.21 15879845.33 15879845.46 0.0070 0.0025

Pluto 38765-09-05 20:38 G 15879933.25 15879933.36 15879933.47 0.0070 0.0035

Pluto 38765-12-02 20:53 G 15880021.29 15880021.37 15880021.48 0.0070 0.0046

Uranus 38765-12-08 07:41 G 15880026.80 15880026.82 15880026.86 0.0142 0.0139

Pluto 38766-02-28 21:50 G 15880109.33 15880109.41 15880109.48 0.0070 0.0057

Uranus 38766-03-06 11:17 G 15880114.91 15880114.97 15880115.05 0.0142 0.0118

Pluto 38766-05-27 22:05 G 15880197.40 15880197.42 15880197.46 0.0070 0.0068

Uranus 38766-06-02 14:53 G 15880203.03 15880203.12 15880203.22 0.0143 0.0097

Uranus 38766-08-29 18:29 G 15880291.16 15880291.27 15880291.38 0.0143 0.0076

Uranus 38766-11-25 21:50 G 15880379.30 15880379.41 15880379.54 0.0143 0.0055

Uranus 38767-02-22 01:26 G 15880467.44 15880467.56 15880467.70 0.0143 0.0034

Uranus 38767-05-21 05:02 G 15880555.58 15880555.71 15880555.85 0.0143 0.0013

Mars 38767-07-07 18:43 G 15880603.22 15880603.28 15880603.35 0.1603 0.1468

Uranus 38767-08-17 08:38 G 15880643.73 15880643.86 15880644.00 0.0143 0.0010

Uranus 38767-11-13 12:14 G 15880731.88 15880732.01 15880732.14 0.0143 0.0031

Uranus 38768-02-09 15:50 G 15880820.04 15880820.16 15880820.29 0.0143 0.0053

Uranus 38768-05-07 19:26 G 15880908.20 15880908.31 15880908.43 0.0143 0.0075

Uranus 38768-08-03 23:17 G 15880996.37 15880996.47 15880996.57 0.0143 0.0097

Uranus 38768-10-31 02:53 G 15881084.55 15881084.62 15881084.70 0.0143 0.0119

Uranus 38769-01-27 06:29 G 15881172.75 15881172.77 15881172.80 0.0143 0.0141

Saturn 38770-12-29 15:36 G 15881874.10 15881874.15 15881874.21 0.0279 0.0252

Jupiter 38771-02-15 11:02 G 15881921.79 15881921.96 15881922.14 0.0507 0.0162

Saturn 38771-03-28 02:24 G 15881962.48 15881962.60 15881962.72 0.0278 0.0121

Saturn 38771-06-24 12:58 G 15882050.91 15882051.04 15882051.17 0.0277 0.0011

Saturn 38771-09-20 23:46 G 15882139.37 15882139.49 15882139.60 0.0276 0.0136

Saturn 38771-12-18 10:19 G 15882227.89 15882227.93 15882227.96 0.0275 0.0263

Venus 38772-12-05 07:12 G 15882580.76 15882580.80 15882580.83 0.3688 0.3453

Moon 38776-07-12 10:34 G 15883895.83 15883895.94 15883896.04 0.2649 0.0684

Earth 38776-07-12 11:02 G 15883895.85 15883895.96 15883896.06 0.2652 0.0581 *

Jupiter 38776-10-09 06:29 G 15883984.64 15883984.77 15883984.89 0.0519 0.0069

Venus 38778-06-20 23:02 G 15884604.37 15884604.46 15884604.56 0.3687 0.1488

Earth 38780-01-11 04:05 G 15885173.64 15885173.67 15885173.70 0.2679 0.2608

Moon 38780-01-11 05:31 G 15885173.66 15885173.73 15885173.81 0.2675 0.2353 *

Mars 38781-08-05 06:29 G 15885745.69 15885745.77 15885745.84 0.1925 0.1461

Jupiter 38782-12-04 07:26 G 15886231.63 15886231.81 15886232.00 0.0506 0.0049

Venus 38784-01-04 15:07 G 15886628.03 15886628.13 15886628.23 0.3687 0.0518

Saturn 38787-07-05 03:36 G 15887905.49 15887905.65 15887905.81 0.0285 0.0148

Saturn 38787-10-02 03:50 G 15887994.48 15887994.66 15887994.85 0.0286 0.0060

Saturn 38787-12-30 04:19 G 15888083.61 15888083.68 15888083.74 0.0287 0.0267

Mars 38788-03-25 15:22 G 15888170.06 15888170.14 15888170.22 0.1609 0.1383

Jupiter 38788-07-28 10:48 G 15888294.84 15888294.95 15888295.07 0.0520 0.0220

Jupiter 38788-10-25 15:22 G 15888384.06 15888384.14 15888384.23 0.0518 0.0372

Moon 38789-07-15 03:22 G 15888646.54 15888646.64 15888646.75 0.2652 0.0639

Earth 38789-07-15 04:05 G 15888646.57 15888646.67 15888646.77 0.2652 0.0675 *

Venus 38789-07-20 07:12 G 15888651.73 15888651.80 15888651.88 0.3686 0.2568

Mars 38790-12-26 14:24 G 15889175.98 15889176.10 15889176.21 0.1929 0.0044

Moon 38793-01-13 14:10 G 15889924.93 15889925.09 15889925.26 0.2673 0.0585

Earth 38793-01-13 14:10 G 15889924.93 15889925.09 15889925.25 0.2680 0.0657 *

Venus 38793-07-17 17:17 G 15890110.13 15890110.22 15890110.32 0.3683 0.2817

Jupiter 38794-09-22 03:36 G 15890541.49 15890541.65 15890541.81 0.0506 0.0262

Mars 38797-08-15 17:31 G 15891600.06 15891600.23 15891600.39 0.1606 0.0073

Venus 38799-01-31 23:31 G 15892134.38 15892134.48 15892134.59 0.3684 0.2616

Jupiter 38800-05-16 15:50 G 15892605.07 15892605.16 15892605.25 0.0521 0.0361

Mars 38800-05-17 22:19 G 15892606.35 15892606.43 15892606.51 0.1933 0.1382

Jupiter 38800-08-13 20:10 G 15892694.23 15892694.34 15892694.46 0.0519 0.0232

Saturn 38800-08-14 05:17 G 15892694.61 15892694.72 15892694.83 0.0278 0.0155

Saturn 38800-11-10 15:50 G 15892783.03 15892783.16 15892783.29 0.0277 0.0026

Saturn 38801-02-07 02:24 G 15892871.48 15892871.60 15892871.73 0.0276 0.0103

Saturn 38801-05-06 12:58 G 15892959.98 15892960.04 15892960.12 0.0275 0.0230

Moon 38802-07-17 20:38 G 15893397.29 15893397.36 15893397.44 0.2657 0.1840

Earth 38802-07-17 21:07 G 15893397.31 15893397.38 15893397.45 0.2651 0.1942 *

Jupiter 38806-07-10 23:02 G 15894851.41 15894851.46 15894851.52 0.0505 0.0481

Jupiter 38806-10-09 11:46 G 15894941.87 15894941.99 15894942.13 0.0507 0.0362

Uranus 38806-10-10 11:02 G 15894942.89 15894942.96 15894943.05 0.0136 0.0122

Mars 38807-01-05 19:26 G 15895030.21 15895030.31 15895030.42 0.1603 0.1251

Uranus 38807-01-06 18:29 G 15895031.14 15895031.27 15895031.41 0.0135 0.0095

Uranus 38807-04-05 01:55 G 15895119.42 15895119.58 15895119.75 0.0135 0.0068

Uranus 38807-07-02 09:07 G 15895207.70 15895207.88 15895208.07 0.0135 0.0042

Uranus 38807-09-28 16:34 G 15895296.00 15895296.19 15895296.38 0.0135 0.0015

Uranus 38807-12-25 23:46 G 15895384.30 15895384.49 15895384.68 0.0135 0.0011

Uranus 38808-03-23 06:58 G 15895472.60 15895472.79 15895472.97 0.0135 0.0038

Uranus 38808-06-19 13:55 G 15895560.92 15895561.08 15895561.25 0.0135 0.0063

Uranus 38808-09-15 20:53 G 15895649.24 15895649.37 15895649.52 0.0135 0.0089

Uranus 38808-12-13 03:50 G 15895737.57 15895737.66 15895737.77 0.0135 0.0115

Moon 38809-07-10 22:34 G 15895947.36 15895947.44 15895947.53 0.2646 0.1588

Earth 38809-07-10 22:48 G 15895947.36 15895947.45 15895947.53 0.2652 0.1583 *

Jupiter 38812-03-04 20:24 G 15896915.33 15896915.35 15896915.39 0.0521 0.0502

Jupiter 38812-06-02 00:58 G 15897004.42 15897004.54 15897004.67 0.0519 0.0090

Saturn 38816-11-21 00:43 G 15898637.41 15898637.53 15898637.66 0.0284 0.0214

Saturn 38817-02-18 01:12 G 15898726.37 15898726.55 15898726.74 0.0285 0.0009

Saturn 38817-05-18 01:41 G 15898815.44 15898815.57 15898815.70 0.0286 0.0201

Jupiter 38818-07-28 08:38 G 15899251.69 15899251.86 15899252.04 0.0507 0.0159

Mars 38821-02-03 06:14 G 15900172.70 15900172.76 15900172.82 0.1925 0.1604

Moon 38822-07-13 15:07 G 15900698.02 15900698.13 15900698.24 0.2649 0.0405

Earth 38822-07-13 15:50 G 15900698.05 15900698.16 15900698.26 0.2652 0.0344 *

Jupiter 38824-03-21 05:02 G 15901314.59 15901314.71 15901314.84 0.0519 0.0068

Earth 38826-01-11 11:02 G 15901975.85 15901975.96 15901976.07 0.2679 0.2005

Moon 38826-01-11 12:14 G 15901975.89 15901976.01 15901976.13 0.2675 0.1861 *

Mars 38827-09-24 15:50 G 15902597.13 15902597.16 15902597.19 0.1609 0.1580

Venus 38829-07-12 04:34 G 15903253.63 15903253.69 15903253.76 0.3688 0.2752

Saturn 38830-01-01 07:55 G 15903426.74 15903426.83 15903426.93 0.0279 0.0191

Saturn 38830-03-30 18:43 G 15903515.15 15903515.28 15903515.41 0.0278 0.0061

Jupiter 38830-05-16 05:46 G 15903561.55 15903561.74 15903561.93 0.0507 0.0043

Mars 38830-06-26 14:24 G 15903602.98 15903603.10 15903603.21 0.1929 0.0203

Saturn 38830-06-27 05:17 G 15903603.60 15903603.72 15903603.85 0.0277 0.0069

Saturn 38830-09-23 15:50 G 15903692.08 15903692.16 15903692.26 0.0275 0.0196

Venus 38835-01-25 20:38 G 15905277.26 15905277.36 15905277.46 0.3687 0.0774

Moon 38835-07-16 08:10 G 15905448.74 15905448.84 15905448.94 0.2653 0.0801

Earth 38835-07-16 08:53 G 15905448.77 15905448.87 15905448.97 0.2652 0.0938 *

Jupiter 38836-01-08 09:36 G 15905624.79 15905624.90 15905625.02 0.0520 0.0215

Jupiter 38836-04-06 14:10 G 15905714.00 15905714.09 15905714.18 0.0518 0.0375

Mars 38837-02-13 18:00 G 15906027.09 15906027.25 15906027.42 0.1607 0.0277

Moon 38839-01-14 21:07 G 15906727.23 15906727.38 15906727.52 0.2673 0.1318

Earth 38839-01-14 21:07 G 15906727.23 15906727.38 15906727.52 0.2680 0.1243 *

Neptune 38839-11-16 06:29 G 15907032.76 15907032.77 15907032.81 0.0089 0.0087

Mars 38839-11-16 22:34 G 15907033.35 15907033.44 15907033.52 0.1933 0.1206

Neptune 38840-02-12 07:55 G 15907120.78 15907120.83 15907120.89 0.0089 0.0080

Neptune 38840-05-10 09:22 G 15907208.82 15907208.89 15907208.97 0.0089 0.0072

Neptune 38840-08-06 10:34 G 15907296.86 15907296.94 15907297.03 0.0089 0.0065

Venus 38840-08-10 12:43 G 15907300.93 15907301.03 15907301.13 0.3687 0.1253

Neptune 38840-11-02 11:46 G 15907384.90 15907384.99 15907385.10 0.0089 0.0058

Neptune 38841-01-29 13:12 G 15907472.94 15907473.05 15907473.16 0.0089 0.0050

Neptune 38841-04-27 14:24 G 15907560.99 15907561.10 15907561.22 0.0089 0.0043

Neptune 38841-07-24 15:36 G 15907649.04 15907649.15 15907649.28 0.0089 0.0036

Neptune 38841-10-20 17:02 G 15907737.09 15907737.21 15907737.34 0.0089 0.0028

Neptune 38842-01-16 18:29 G 15907825.14 15907825.27 15907825.40 0.0089 0.0021

Jupiter 38842-03-04 02:10 G 15907871.43 15907871.59 15907871.75 0.0506 0.0252

Neptune 38842-04-14 19:41 G 15907913.19 15907913.32 15907913.45 0.0089 0.0013

Moon 38842-07-09 10:48 G 15907998.91 15907998.95 15907998.98 0.2646 0.2486

Earth 38842-07-09 10:34 G 15907998.92 15907998.94 15907998.96 0.2653 0.2575 *

Neptune 38842-07-11 20:53 G 15908001.24 15908001.37 15908001.51 0.0089 0.0007

Neptune 38842-10-07 22:19 G 15908089.30 15908089.43 15908089.56 0.0089 0.0001

Neptune 38843-01-03 23:31 G 15908177.35 15908177.48 15908177.62 0.0089 0.0009

Neptune 38843-04-02 00:43 G 15908265.41 15908265.53 15908265.67 0.0089 0.0017

Neptune 38843-06-29 02:10 G 15908353.46 15908353.59 15908353.72 0.0089 0.0024

Neptune 38843-09-25 03:22 G 15908441.52 15908441.64 15908441.77 0.0089 0.0031

Neptune 38843-12-22 04:48 G 15908529.58 15908529.70 15908529.82 0.0089 0.0039

Neptune 38844-03-19 06:14 G 15908617.64 15908617.76 15908617.87 0.0089 0.0046

Neptune 38844-06-15 07:12 G 15908705.70 15908705.80 15908705.92 0.0089 0.0054

Neptune 38844-09-11 08:38 G 15908793.77 15908793.86 15908793.96 0.0089 0.0061

Neptune 38844-12-08 09:50 G 15908881.84 15908881.91 15908882.00 0.0089 0.0069

Neptune 38845-03-06 11:17 G 15908969.91 15908969.97 15908970.04 0.0088 0.0076

Neptune 38845-06-02 12:29 G 15909057.99 15909058.02 15909058.07 0.0088 0.0084

Venus 38846-02-24 04:48 G 15909324.66 15909324.70 15909324.75 0.3686 0.3313

Saturn 38846-04-09 22:34 G 15909369.41 15909369.44 15909369.48 0.0284 0.0277

Mars 38846-07-06 20:10 G 15909457.21 15909457.34 15909457.47 0.1604 0.1042

Saturn 38846-07-07 23:02 G 15909458.28 15909458.46 15909458.65 0.0285 0.0071

Saturn 38846-10-04 23:31 G 15909547.32 15909547.48 15909547.65 0.0286 0.0138

Jupiter 38847-10-27 14:10 G 15909935.00 15909935.09 15909935.18 0.0520 0.0363

Jupiter 38848-01-24 18:29 G 15910024.16 15910024.27 15910024.39 0.0519 0.0228

Moon 38848-07-18 01:26 G 15910199.50 15910199.56 15910199.62 0.2657 0.2213

Earth 38848-07-18 01:55 G 15910199.52 15910199.58 15910199.63 0.2651 0.2196 *

Pluto 38849-08-09 20:38 G 15910587.26 15910587.36 15910587.51 0.0075 0.0059

Pluto 38849-11-05 23:31 G 15910675.32 15910675.48 15910675.66 0.0075 0.0039

Uranus 38849-12-28 14:24 G 15910728.07 15910728.10 15910728.14 0.0142 0.0137

Pluto 38850-02-02 02:10 G 15910763.41 15910763.59 15910763.79 0.0075 0.0020

Venus 38850-02-21 18:43 G 15910783.14 15910783.28 15910783.43 0.3683 0.0981

Uranus 38850-03-26 18:00 G 15910816.18 15910816.25 15910816.33 0.0142 0.0116

Pluto 38850-05-01 05:02 G 15910851.51 15910851.71 15910851.91 0.0075 0.0000

Uranus 38850-06-22 21:36 G 15910904.30 15910904.40 15910904.50 0.0143 0.0095

Pluto 38850-07-28 07:26 G 15910939.63 15910939.81 15910940.01 0.0075 0.0020

Uranus 38850-09-19 00:58 G 15910992.43 15910992.54 15910992.66 0.0143 0.0074

Pluto 38850-10-24 10:05 G 15911027.75 15911027.92 15911028.09 0.0074 0.0039

Uranus 38850-12-16 04:34 G 15911080.57 15911080.69 15911080.81 0.0143 0.0053

Pluto 38851-01-20 12:14 G 15911115.91 15911116.01 15911116.15 0.0074 0.0058

Uranus 38851-03-14 08:10 G 15911168.71 15911168.84 15911168.97 0.0143 0.0031

Uranus 38851-06-10 11:46 G 15911256.86 15911256.99 15911257.12 0.0143 0.0010

Uranus 38851-09-06 15:22 G 15911345.01 15911345.14 15911345.27 0.0143 0.0012

Uranus 38851-12-03 18:58 G 15911433.16 15911433.29 15911433.42 0.0143 0.0033

Uranus 38852-02-29 22:19 G 15911521.32 15911521.43 15911521.56 0.0143 0.0055

Uranus 38852-05-28 02:10 G 15911609.48 15911609.59 15911609.70 0.0143 0.0076

Uranus 38852-08-24 05:46 G 15911697.65 15911697.74 15911697.84 0.0143 0.0098

Uranus 38852-11-20 09:22 G 15911785.83 15911785.89 15911785.97 0.0143 0.0121

Uranus 38853-02-16 12:58 G 15911874.04 15911874.04 15911874.06 0.0143 0.0143

Jupiter 38853-12-20 22:19 G 15912181.36 15912181.43 15912181.51 0.0505 0.0463

Jupiter 38854-03-21 11:02 G 15912271.85 15912271.96 15912272.09 0.0507 0.0381

Moon 38855-07-12 03:07 G 15912749.54 15912749.63 15912749.73 0.2647 0.1390

Earth 38855-07-12 03:22 G 15912749.55 15912749.64 15912749.74 0.2652 0.1332 *

Saturn 38859-05-21 10:34 G 15914158.87 15914158.94 15914159.01 0.0279 0.0228

Jupiter 38859-08-15 18:58 G 15914245.26 15914245.29 15914245.32 0.0521 0.0505

Saturn 38859-08-17 21:07 G 15914247.26 15914247.38 15914247.51 0.0278 0.0099

Jupiter 38859-11-12 23:31 G 15914334.35 15914334.48 15914334.60 0.0519 0.0087

Saturn 38859-11-14 07:55 G 15914335.70 15914335.83 15914335.96 0.0276 0.0032

Saturn 38860-02-10 18:29 G 15914424.16 15914424.27 15914424.37 0.0275 0.0158

Mars 38860-08-04 06:14 G 15914599.72 15914599.76 15914599.80 0.1925 0.1769

Jupiter 38866-01-07 07:12 G 15916581.62 15916581.80 15916581.97 0.0507 0.0165

Moon 38868-07-13 19:55 G 15917500.22 15917500.33 15917500.43 0.2649 0.0179

Earth 38868-07-13 20:24 G 15917500.25 15917500.35 15917500.46 0.2652 0.0106 *

Mars 38869-12-25 14:24 G 15918029.98 15918030.10 15918030.21 0.1929 0.0366

Jupiter 38871-09-01 04:19 G 15918644.55 15918644.68 15918644.80 0.0520 0.0055

Earth 38872-01-12 18:00 G 15918778.11 15918778.25 15918778.39 0.2680 0.1405

Moon 38872-01-12 18:58 G 15918778.14 15918778.29 15918778.43 0.2674 0.1329 *

Saturn 38875-11-24 19:12 G 15920190.15 15920190.30 15920190.47 0.0284 0.0146

Saturn 38876-02-21 19:55 G 15920279.14 15920279.33 15920279.51 0.0286 0.0062

Saturn 38876-05-20 20:10 G 15920368.28 15920368.34 15920368.40 0.0287 0.0270

Mars 38876-08-14 18:43 G 15920454.12 15920454.28 15920454.44 0.1606 0.0480

Jupiter 38877-10-26 04:05 G 15920891.48 15920891.67 15920891.85 0.0506 0.0039

Mars 38879-05-17 22:19 G 15921460.33 15921460.43 15921460.52 0.1933 0.1071

Moon 38881-07-16 12:58 G 15922250.94 15922251.04 15922251.14 0.2655 0.1130

Earth 38881-07-16 13:26 G 15922250.97 15922251.06 15922251.16 0.2651 0.1186 *

Jupiter 38883-06-20 08:24 G 15922954.74 15922954.85 15922954.97 0.0520 0.0208

Jupiter 38883-09-17 12:58 G 15923043.96 15923044.04 15923044.13 0.0518 0.0381

Moon 38885-01-15 03:50 G 15923529.54 15923529.66 15923529.79 0.2673 0.1772

Earth 38885-01-15 04:05 G 15923529.55 15923529.67 15923529.79 0.2680 0.1838 *

Mars 38886-01-04 20:53 G 15923884.23 15923884.37 15923884.51 0.1604 0.0838

Venus 38886-02-16 02:10 G 15923926.51 15923926.59 15923926.68 0.3688 0.2043

Earth 38888-07-09 15:07 G 15924801.09 15924801.13 15924801.18 0.2653 0.2324

Moon 38888-07-09 15:22 G 15924801.10 15924801.14 15924801.19 0.2646 0.2344 *

Saturn 38888-10-07 12:58 G 15924891.01 15924891.04 15924891.07 0.0280 0.0269

Saturn 38889-01-03 23:31 G 15924979.37 15924979.48 15924979.60 0.0279 0.0139

Saturn 38889-04-02 10:19 G 15925067.80 15925067.93 15925068.06 0.0278 0.0009

Saturn 38889-06-29 20:53 G 15925156.25 15925156.37 15925156.49 0.0276 0.0120

Jupiter 38889-08-14 00:43 G 15925201.37 15925201.53 15925201.70 0.0506 0.0242

Saturn 38889-09-26 07:26 G 15925244.76 15925244.81 15925244.87 0.0275 0.0248

Uranus 38890-10-30 17:31 G 15925644.14 15925644.23 15925644.32 0.0136 0.0118

Uranus 38891-01-27 00:29 G 15925732.40 15925732.52 15925732.68 0.0136 0.0092

Uranus 38891-04-25 07:55 G 15925820.67 15925820.83 15925821.01 0.0135 0.0065

Uranus 38891-07-22 15:36 G 15925908.96 15925909.15 15925909.33 0.0135 0.0038

Venus 38891-09-01 18:14 G 15925950.15 15925950.26 15925950.36 0.3687 0.0090

Uranus 38891-10-18 22:48 G 15925997.26 15925997.45 15925997.64 0.0135 0.0011

Uranus 38892-01-15 06:00 G 15926085.56 15926085.75 15926085.94 0.0135 0.0015

Uranus 38892-04-12 12:58 G 15926173.87 15926174.04 15926174.23 0.0135 0.0041

Uranus 38892-07-09 20:10 G 15926262.18 15926262.34 15926262.51 0.0135 0.0067

Uranus 38892-10-06 03:07 G 15926350.50 15926350.63 15926350.78 0.0135 0.0093

Uranus 38893-01-02 10:19 G 15926438.84 15926438.93 15926439.02 0.0135 0.0118

Moon 38894-07-19 06:14 G 15927001.71 15927001.76 15927001.81 0.2657 0.2368

Earth 38894-07-19 06:29 G 15927001.73 15927001.77 15927001.81 0.2651 0.2450 *

Jupiter 38895-04-08 12:58 G 15927264.96 15927265.04 15927265.14 0.0520 0.0354

Jupiter 38895-07-06 17:31 G 15927354.12 15927354.23 15927354.34 0.0518 0.0235

Venus 38897-03-17 10:19 G 15927973.84 15927973.93 15927974.02 0.3687 0.1993

Jupiter 38901-06-02 21:22 G 15929511.31 15929511.39 15929511.48 0.0506 0.0447

Moon 38901-07-13 07:41 G 15929551.73 15929551.82 15929551.92 0.2647 0.1087

Earth 38901-07-13 08:10 G 15929551.74 15929551.84 15929551.94 0.2652 0.1075 *

Jupiter 38901-09-01 10:19 G 15929601.82 15929601.93 15929602.04 0.0507 0.0398

Saturn 38905-04-13 16:34 G 15930922.07 15930922.19 15930922.32 0.0284 0.0213

Saturn 38905-07-11 17:02 G 15931011.02 15931011.21 15931011.40 0.0285 0.0006

Saturn 38905-10-08 17:17 G 15931100.09 15931100.22 15931100.36 0.0286 0.0202

Venus 38906-09-29 20:10 G 15931456.20 15931456.34 15931456.49 0.3684 0.0855

Jupiter 38907-01-26 17:31 G 15931575.21 15931575.23 15931575.26 0.0521 0.0502

Jupiter 38907-04-25 22:05 G 15931664.29 15931664.42 15931664.54 0.0519 0.0088

Mars 38909-06-26 14:24 G 15932456.98 15932457.10 15932457.21 0.1929 0.0522

Jupiter 38913-06-20 06:43 G 15933911.61 15933911.78 15933911.96 0.0507 0.0190

Moon 38914-07-16 00:29 G 15934302.42 15934302.52 15934302.63 0.2650 0.0133

Earth 38914-07-16 01:12 G 15934302.44 15934302.55 15934302.66 0.2652 0.0183 *

Mars 38916-02-14 19:26 G 15934881.16 15934881.31 15934881.46 0.1607 0.0696

Earth 38918-01-14 01:12 G 15935580.39 15935580.55 15935580.71 0.2680 0.0792

Moon 38918-01-14 01:55 G 15935580.41 15935580.58 15935580.74 0.2673 0.0644 *

Saturn 38918-05-25 01:41 G 15935711.48 15935711.57 15935711.67 0.0279 0.0180

Saturn 38918-08-21 12:29 G 15935799.89 15935800.02 15935800.15 0.0277 0.0050

Mars 38918-11-16 22:19 G 15935887.33 15935887.43 15935887.53 0.1933 0.0893

Saturn 38918-11-17 23:02 G 15935888.34 15935888.46 15935888.59 0.0276 0.0079

Jupiter 38919-02-12 02:53 G 15935974.49 15935974.62 15935974.75 0.0520 0.0053

Saturn 38919-02-14 09:36 G 15935976.82 15935976.90 15935976.99 0.0275 0.0207

Neptune 38924-04-21 23:02 G 15937870.39 15937870.46 15937870.55 0.0089 0.0081

Neptune 38924-07-19 02:38 G 15937958.50 15937958.61 15937958.74 0.0089 0.0070

Neptune 38924-10-15 06:29 G 15938046.63 15938046.77 15938046.92 0.0089 0.0059

Neptune 38925-01-11 10:05 G 15938134.76 15938134.92 15938135.09 0.0089 0.0048

Jupiter 38925-04-08 02:53 G 15938221.43 15938221.62 15938221.81 0.0506 0.0024

Neptune 38925-04-09 13:41 G 15938222.90 15938223.07 15938223.26 0.0089 0.0037

Neptune 38925-07-06 17:31 G 15938311.04 15938311.23 15938311.42 0.0089 0.0026

Mars 38925-07-06 21:36 G 15938311.24 15938311.40 15938311.55 0.1604 0.0624 *

Neptune 38925-10-02 21:07 G 15938399.19 15938399.38 15938399.57 0.0089 0.0015

Neptune 38925-12-30 00:43 G 15938487.34 15938487.53 15938487.73 0.0089 0.0004

Neptune 38926-03-28 04:19 G 15938575.49 15938575.68 15938575.88 0.0089 0.0007

Neptune 38926-06-24 07:55 G 15938663.64 15938663.83 15938664.02 0.0089 0.0018

Neptune 38926-09-20 11:31 G 15938751.80 15938751.98 15938752.17 0.0089 0.0029

Neptune 38926-12-17 14:53 G 15938839.96 15938840.12 15938840.31 0.0089 0.0040

Neptune 38927-03-15 18:29 G 15938928.12 15938928.27 15938928.44 0.0089 0.0051

Neptune 38927-06-11 22:19 G 15939016.29 15939016.43 15939016.57 0.0089 0.0061

Moon 38927-07-18 17:46 G 15939053.15 15939053.24 15939053.33 0.2656 0.1367

Earth 38927-07-18 18:14 G 15939053.17 15939053.26 15939053.35 0.2651 0.1442 *

Neptune 38927-09-08 01:41 G 15939104.47 15939104.57 15939104.69 0.0089 0.0072

Neptune 38927-12-05 05:02 G 15939192.66 15939192.71 15939192.79 0.0089 0.0083

Jupiter 38930-12-01 07:41 G 15940284.71 15940284.82 15940284.94 0.0520 0.0194

Moon 38931-01-17 10:34 G 15940331.87 15940331.94 15940332.01 0.2674 0.2372

Earth 38931-01-17 11:02 G 15940331.89 15940331.96 15940332.03 0.2680 0.2433 *

Jupiter 38931-02-28 12:14 G 15940373.93 15940374.01 15940374.09 0.0518 0.0398

Uranus 38934-01-18 21:22 G 15941429.35 15941429.39 15941429.43 0.0142 0.0134

Uranus 38934-04-17 00:43 G 15941517.46 15941517.53 15941517.61 0.0142 0.0113

Moon 38934-07-11 19:55 G 15941603.26 15941603.33 15941603.40 0.2646 0.1999

Earth 38934-07-11 19:55 G 15941603.27 15941603.33 15941603.40 0.2653 0.2070 *

Uranus 38934-07-14 04:05 G 15941605.58 15941605.67 15941605.78 0.0143 0.0093

Uranus 38934-10-10 07:41 G 15941693.71 15941693.82 15941693.94 0.0143 0.0072

Saturn 38934-11-28 12:43 G 15941742.85 15941743.03 15941743.21 0.0285 0.0086

Uranus 38935-01-06 11:17 G 15941781.85 15941781.97 15941782.10 0.0143 0.0050

Saturn 38935-02-25 13:12 G 15941831.88 15941832.05 15941832.22 0.0286 0.0122

Uranus 38935-04-04 14:53 G 15941869.99 15941870.12 15941870.25 0.0143 0.0029

Uranus 38935-07-01 18:29 G 15941958.13 15941958.27 15941958.40 0.0143 0.0008

Uranus 38935-09-27 22:05 G 15942046.28 15942046.42 15942046.55 0.0143 0.0014

Uranus 38935-12-25 01:41 G 15942134.44 15942134.57 15942134.70 0.0143 0.0035

Uranus 38936-03-22 05:02 G 15942222.59 15942222.71 15942222.84 0.0143 0.0057

Uranus 38936-06-18 08:53 G 15942310.76 15942310.87 15942310.98 0.0143 0.0079

Uranus 38936-09-14 12:29 G 15942398.93 15942399.02 15942399.11 0.0143 0.0101

Uranus 38936-12-11 16:05 G 15942487.11 15942487.17 15942487.24 0.0143 0.0123

Jupiter 38937-01-24 23:46 G 15942531.32 15942531.49 15942531.66 0.0506 0.0227

Venus 38937-03-10 07:55 G 15942575.78 15942575.83 15942575.87 0.3688 0.3298

Jupiter 38942-09-19 12:14 G 15944594.92 15944595.01 15944595.10 0.0520 0.0343

Venus 38942-09-23 23:46 G 15944599.39 15944599.49 15944599.59 0.3687 0.1329

Jupiter 38942-12-17 16:34 G 15944684.08 15944684.19 15944684.30 0.0518 0.0246

Moon 38947-07-14 12:29 G 15946353.92 15946354.02 15946354.12 0.2647 0.0941

Earth 38947-07-14 12:58 G 15946353.94 15946354.04 15946354.14 0.2652 0.0817 *

Saturn 38947-10-12 03:50 G 15946443.59 15946443.66 15946443.74 0.0280 0.0225

Saturn 38948-01-08 14:38 G 15946531.98 15946532.11 15946532.23 0.0279 0.0094

Saturn 38948-04-06 01:12 G 15946620.42 15946620.55 15946620.68 0.0277 0.0036

Venus 38948-04-08 15:50 G 15946623.05 15946623.16 15946623.26 0.3687 0.0692

Saturn 38948-07-03 11:46 G 15946708.89 15946708.99 15946709.10 0.0276 0.0166

Jupiter 38948-11-12 20:24 G 15946841.26 15946841.35 15946841.45 0.0506 0.0433

Mars 38948-12-25 14:24 G 15946883.99 15946884.10 15946884.20 0.1929 0.0688

Jupiter 38949-02-11 09:22 G 15946931.79 15946931.89 15946932.00 0.0508 0.0415

Venus 38953-10-23 07:55 G 15948646.76 15948646.83 15948646.90 0.3686 0.2734

Jupiter 38954-07-08 16:48 G 15948905.16 15948905.20 15948905.25 0.0520 0.0487

Jupiter 38954-10-05 21:22 G 15948994.26 15948994.39 15948994.51 0.0518 0.0102

Mars 38955-08-15 20:10 G 15949308.20 15949308.34 15949308.48 0.1607 0.0901

Venus 38957-10-20 15:07 G 15950105.04 15950105.13 15950105.22 0.3683 0.2864

Mars 38958-05-17 22:19 G 15950314.33 15950314.43 15950314.54 0.1933 0.0728

Moon 38960-07-16 05:17 G 15951104.61 15951104.72 15951104.83 0.2652 0.0384

Earth 38960-07-16 06:00 G 15951104.64 15951104.75 15951104.85 0.2652 0.0440 *

Jupiter 38960-11-30 06:14 G 15951241.59 15951241.76 15951241.93 0.0507 0.0211

Venus 38963-05-06 21:36 G 15952129.30 15952129.40 15952129.50 0.3684 0.2630

Earth 38964-01-15 08:10 G 15952382.68 15952382.84 15952383.01 0.2680 0.0196

Moon 38964-01-15 08:53 G 15952382.70 15952382.87 15952383.04 0.2673 0.0200 *

Saturn 38964-04-16 09:22 G 15952474.74 15952474.89 15952475.05 0.0284 0.0157

Saturn 38964-07-14 09:50 G 15952563.73 15952563.91 15952564.10 0.0285 0.0050

Saturn 38964-10-11 10:05 G 15952652.85 15952652.92 15952653.00 0.0286 0.0258

Mars 38965-01-04 22:19 G 15952738.26 15952738.43 15952738.59 0.1604 0.0416

Jupiter 38966-07-25 01:41 G 15953304.45 15953304.57 15953304.70 0.0519 0.0050

Jupiter 38972-09-18 02:53 G 15955551.43 15955551.62 15955551.81 0.0506 0.0006

Moon 38973-07-18 22:19 G 15955855.35 15955855.43 15955855.52 0.2656 0.1623

Earth 38973-07-18 23:02 G 15955855.37 15955855.46 15955855.54 0.2651 0.1699 *

Uranus 38974-11-20 23:31 G 15956345.38 15956345.48 15956345.58 0.0136 0.0115

Uranus 38975-02-17 06:58 G 15956433.64 15956433.79 15956433.93 0.0136 0.0088

Uranus 38975-05-16 13:55 G 15956521.92 15956522.08 15956522.26 0.0136 0.0062

Uranus 38975-08-12 21:36 G 15956610.21 15956610.40 15956610.58 0.0135 0.0035

Uranus 38975-11-09 04:48 G 15956698.51 15956698.70 15956698.89 0.0135 0.0008

Uranus 38976-02-05 12:00 G 15956786.81 15956787.00 15956787.19 0.0135 0.0018

Uranus 38976-05-03 18:58 G 15956875.12 15956875.29 15956875.48 0.0135 0.0045

Uranus 38976-07-31 02:10 G 15956963.43 15956963.59 15956963.76 0.0135 0.0070

Uranus 38976-10-27 09:07 G 15957051.76 15957051.88 15957052.02 0.0135 0.0096

Uranus 38977-01-23 16:05 G 15957140.10 15957140.17 15957140.26 0.0135 0.0122

Saturn 38977-02-28 05:31 G 15957175.71 15957175.73 15957175.77 0.0280 0.0271

Saturn 38977-05-27 16:19 G 15957264.07 15957264.18 15957264.30 0.0279 0.0139

Saturn 38977-08-24 03:07 G 15957352.50 15957352.63 15957352.76 0.0277 0.0010

Saturn 38977-11-20 13:41 G 15957440.95 15957441.07 15957441.19 0.0276 0.0121

Saturn 38978-02-17 00:14 G 15957529.46 15957529.51 15957529.57 0.0275 0.0249

Jupiter 38978-05-13 06:43 G 15957614.66 15957614.78 15957614.89 0.0520 0.0188

Jupiter 38978-08-10 11:02 G 15957703.89 15957703.96 15957704.04 0.0518 0.0403

Moon 38980-07-12 00:29 G 15958405.45 15958405.52 15958405.60 0.2646 0.1870

Earth 38980-07-12 00:43 G 15958405.45 15958405.53 15958405.60 0.2652 0.1816 *

Jupiter 38984-07-06 22:48 G 15959861.29 15959861.45 15959861.63 0.0506 0.0210

Mars 38988-06-25 14:10 G 15961310.99 15961311.09 15961311.20 0.1929 0.0849

Jupiter 38990-03-01 11:31 G 15961924.89 15961924.98 15961925.08 0.0520 0.0327

Jupiter 38990-05-29 16:05 G 15962014.06 15962014.17 15962014.28 0.0519 0.0264

Moon 38993-07-14 17:02 G 15963156.11 15963156.21 15963156.32 0.2647 0.0584

Earth 38993-07-14 17:46 G 15963156.13 15963156.24 15963156.34 0.2652 0.0575 *

Saturn 38993-09-03 04:48 G 15963206.60 15963206.70 15963206.80 0.0283 0.0239

Venus 38993-10-15 05:17 G 15963248.65 15963248.72 15963248.80 0.3688 0.2597

Saturn 38993-12-01 05:17 G 15963295.53 15963295.72 15963295.91 0.0285 0.0034

Saturn 38994-02-28 05:31 G 15963384.58 15963384.73 15963384.88 0.0286 0.0174

Mars 38995-02-13 20:38 G 15963735.24 15963735.36 15963735.48 0.1607 0.1107

Jupiter 38996-04-24 19:41 G 15964171.22 15964171.32 15964171.43 0.0506 0.0412

Jupiter 38996-07-24 08:24 G 15964261.77 15964261.85 15964261.95 0.0507 0.0434

Mars 38997-11-15 22:19 G 15964741.32 15964741.43 15964741.54 0.1933 0.0584

Venus 38999-04-30 21:22 G 15965272.28 15965272.39 15965272.49 0.3688 0.0634

40TH MILLENNIUM CE

This is a list of transits of Mercury in the 40th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	39001-12-19 16:05	G	15966235.12	15966235.17	15966235.22	0.0520	0.0473	
Jupiter	39002-03-18 20:24	G	15966324.23	15966324.35	15966324.48	0.0518	0.0115	
Mars	39004-07-06 22:48	G	15967165.29	15967165.45	15967165.62	0.1604	0.0213	
Neptune	39004-08-14 06:43	G	15967203.74	15967203.78	15967203.83	0.0089	0.0083	
Neptune	39004-11-10 07:55	G	15967291.77	15967291.83	15967291.90	0.0089	0.0076	
Venus	39004-11-14 13:26	G	15967295.96	15967296.06	15967296.15	0.3687	0.1423	
Neptune	39005-02-06 09:07	G	15967379.81	15967379.88	15967379.97	0.0089	0.0069	
Neptune	39005-05-05 10:34	G	15967467.85	15967467.94	15967468.04	0.0089	0.0061	
Neptune	39005-08-01 11:46	G	15967555.89	15967555.99	15967556.10	0.0089	0.0054	
Neptune	39005-10-28 12:58	G	15967643.94	15967644.04	15967644.16	0.0089	0.0047	
Neptune	39006-01-24 14:24	G	15967731.99	15967732.10	15967732.22	0.0089	0.0039	
Neptune	39006-04-22 15:50	G	15967820.04	15967820.16	15967820.28	0.0089	0.0032	
Moon	39006-07-18 10:05	G	15967906.81	15967906.92	15967907.02	0.2653	0.0553	
Earth	39006-07-18 10:34	G	15967906.84	15967906.94	15967907.05	0.2652	0.0699	*
Neptune	39006-07-19 17:02	G	15967908.09	15967908.21	15967908.34	0.0089	0.0024	
Neptune	39006-10-15 18:29	G	15967996.14	15967996.27	15967996.40	0.0089	0.0017	
Saturn	39006-10-15 18:14	G	15967996.16	15967996.26	15967996.35	0.0280	0.0187	*
Neptune	39007-01-11 19:41	G	15968084.19	15968084.32	15968084.45	0.0089	0.0009	
Saturn	39007-01-12 04:48	G	15968084.58	15968084.70	15968084.83	0.0279	0.0056	
Neptune	39007-04-09 20:53	G	15968172.24	15968172.37	15968172.51	0.0089	0.0004	
Saturn	39007-04-10 15:36	G	15968173.02	15968173.15	15968173.27	0.0277	0.0075	
Neptune	39007-07-06 22:19	G	15968260.30	15968260.43	15968260.56	0.0089	0.0005	

Saturn 39007-07-08 02:10 G 15968261.51 15968261.59 15968261.68 0.0276 0.0204

Neptune 39007-10-02 23:31 G 15968348.35 15968348.48 15968348.61 0.0089 0.0013

Neptune 39007-12-30 00:43 G 15968436.41 15968436.53 15968436.67 0.0089 0.0021

Neptune 39008-03-27 02:10 G 15968524.47 15968524.59 15968524.72 0.0089 0.0028

Jupiter 39008-05-13 05:17 G 15968571.56 15968571.72 15968571.89 0.0507 0.0230

Neptune 39008-06-23 03:22 G 15968612.52 15968612.64 15968612.77 0.0089 0.0035

Neptune 39008-09-19 04:48 G 15968700.58 15968700.70 15968700.82 0.0089 0.0043

Neptune 39008-12-16 06:14 G 15968788.65 15968788.76 15968788.87 0.0089 0.0050

Neptune 39009-03-14 07:12 G 15968876.71 15968876.80 15968876.91 0.0089 0.0058

Neptune 39009-06-10 08:38 G 15968964.78 15968964.86 15968964.96 0.0089 0.0065

Neptune 39009-09-06 09:50 G 15969052.85 15969052.91 15969053.00 0.0088 0.0073

Neptune 39009-12-03 11:17 G 15969140.92 15969140.97 15969141.03 0.0088 0.0080

Earth 39010-01-16 15:07 G 15969184.97 15969185.13 15969185.30 0.2680 0.0411

Moon 39010-01-16 15:36 G 15969184.98 15969185.15 15969185.31 0.2673 0.0540 *

Pluto 39010-02-22 03:50 G 15969221.62 15969221.66 15969221.73 0.0069 0.0061

Neptune 39010-03-01 12:29 G 15969229.01 15969229.02 15969229.05 0.0088 0.0088

Pluto 39010-05-21 04:19 G 15969309.61 15969309.68 15969309.78 0.0069 0.0051

Venus 39010-05-31 05:31 G 15969319.69 15969319.73 15969319.76 0.3686 0.3470

Pluto 39010-08-17 05:17 G 15969397.61 15969397.72 15969397.82 0.0069 0.0041

Pluto 39010-11-13 05:46 G 15969485.62 15969485.74 15969485.86 0.0069 0.0030

Pluto 39011-02-09 06:14 G 15969573.64 15969573.76 15969573.89 0.0069 0.0020

Pluto 39011-05-08 06:58 G 15969661.66 15969661.79 15969661.92 0.0069 0.0010

Pluto 39011-08-04 07:26 G 15969749.68 15969749.81 15969749.94 0.0069 0.0001

Pluto 39011-10-31 07:55 G 15969837.70 15969837.83 15969837.96 0.0070 0.0011

Pluto 39012-01-27 08:24 G 15969925.73 15969925.85 15969925.98 0.0070 0.0022

Pluto 39012-04-24 09:07 G 15970013.76 15970013.88 15970014.00 0.0070 0.0032

Pluto 39012-07-21 09:22 G 15970101.80 15970101.89 15970102.01 0.0070 0.0043

Pluto 39012-10-17 09:50 G 15970189.84 15970189.91 15970190.01 0.0070 0.0054

Pluto 39013-01-13 10:34 G 15970277.90 15970277.94 15970278.00 0.0070 0.0064

Mars 39013-11-27 00:58 G 15970595.49 15970595.54 15970595.59 0.1601 0.1524

Jupiter 39014-01-05 01:12 G 15970634.42 15970634.55 15970634.68 0.0519 0.0029

Venus 39014-05-28 16:34 G 15970778.05 15970778.19 15970778.34 0.3683 0.1010

Uranus 39018-02-09 04:19 G 15972130.64 15972130.68 15972130.74 0.0142 0.0130

Uranus 39018-05-08 07:55 G 15972218.75 15972218.83 15972218.92 0.0142 0.0109

Uranus 39018-08-04 11:31 G 15972306.87 15972306.98 15972307.08 0.0143 0.0088

Uranus 39018-10-31 14:53 G 15972395.01 15972395.12 15972395.24 0.0143 0.0067

Uranus 39019-01-27 18:29 G 15972483.14 15972483.27 15972483.39 0.0143 0.0046

Uranus 39019-04-25 22:05 G 15972571.29 15972571.42 15972571.55 0.0143 0.0025

Moon 39019-07-21 03:07 G 15972657.56 15972657.63 15972657.71 0.2656 0.1917

Earth 39019-07-21 03:36 G 15972657.58 15972657.65 15972657.72 0.2651 0.1953 *

Uranus 39019-07-23 01:26 G 15972659.43 15972659.56 15972659.70 0.0143 0.0005

Uranus 39019-10-19 05:02 G 15972747.58 15972747.71 15972747.84 0.0143 0.0018

Uranus 39020-01-15 08:38 G 15972835.73 15972835.86 15972835.99 0.0143 0.0040

Jupiter 39020-03-01 02:24 G 15972881.41 15972881.60 15972881.78 0.0507 0.0026

Uranus 39020-04-12 12:14 G 15972923.89 15972924.01 15972924.13 0.0143 0.0061

Uranus 39020-07-09 15:50 G 15973012.06 15973012.16 15973012.27 0.0143 0.0083

Uranus 39020-10-05 19:26 G 15973100.23 15973100.31 15973100.40 0.0143 0.0105

Uranus 39021-01-01 23:02 G 15973188.41 15973188.46 15973188.53 0.0143 0.0127

Saturn 39023-04-21 01:41 G 15974027.40 15974027.57 15974027.75 0.0284 0.0106

Saturn 39023-07-19 02:10 G 15974116.41 15974116.59 15974116.76 0.0285 0.0101

Jupiter 39025-10-24 05:46 G 15974944.62 15974944.74 15974944.86 0.0520 0.0177

Jupiter 39026-01-21 10:05 G 15975033.85 15975033.92 15975034.00 0.0518 0.0413

Moon 39026-07-14 05:02 G 15975207.63 15975207.71 15975207.80 0.2646 0.1559

Earth 39026-07-14 05:17 G 15975207.64 15975207.72 15975207.81 0.2652 0.1566 *

Mars 39027-12-26 14:10 G 15975738.00 15975738.09 15975738.19 0.1928 0.1009

Jupiter 39031-12-18 23:02 G 15977191.28 15977191.46 15977191.63 0.0506 0.0181

Mars 39034-08-15 21:36 G 15978162.30 15978162.40 15978162.49 0.1607 0.1319

Saturn 39036-03-03 19:55 G 15978728.26 15978728.33 15978728.40 0.0280 0.0234

Saturn 39036-05-31 06:29 G 15978816.65 15978816.77 15978816.89 0.0279 0.0102

Saturn 39036-08-27 17:17 G 15978905.09 15978905.22 15978905.35 0.0278 0.0029

Saturn 39036-11-24 03:50 G 15978993.56 15978993.66 15978993.77 0.0276 0.0159

Mars 39037-05-17 22:19 G 15979168.32 15979168.43 15979168.54 0.1932 0.0418

Jupiter 39037-08-12 10:34 G 15979254.84 15979254.94 15979255.04 0.0520 0.0319

Jupiter 39037-11-09 14:53 G 15979344.02 15979344.12 15979344.23 0.0518 0.0272

Moon 39039-07-16 21:50 G 15979958.30 15979958.41 15979958.52 0.2648 0.0441

Earth 39039-07-16 22:19 G 15979958.33 15979958.43 15979958.54 0.2652 0.0317 *

Earth 39043-01-14 12:14 G 15981235.92 15981236.01 15981236.09 0.2679 0.2257

Moon 39043-01-14 13:12 G 15981235.94 15981236.05 15981236.16 0.2673 0.2013 *

Jupiter 39043-10-06 19:12 G 15981501.18 15981501.30 15981501.41 0.0506 0.0393

Jupiter 39044-01-05 07:55 G 15981591.75 15981591.83 15981591.91 0.0507 0.0452

Mars 39044-01-05 23:31 G 15981592.32 15981592.48 15981592.65 0.1604 0.0028

Mars 39046-10-08 06:29 G 15982598.73 15982598.77 15982598.80 0.1936 0.1828

Jupiter 39049-05-31 15:22 G 15983565.09 15983565.14 15983565.20 0.0521 0.0458

Jupiter 39049-08-28 19:55 G 15983654.21 15983654.33 15983654.45 0.0519 0.0133

Venus 39050-05-23 02:53 G 15983921.53 15983921.62 15983921.71 0.3688 0.1899

Moon 39052-07-18 14:38 G 15984709.01 15984709.11 15984709.21 0.2654 0.0920

Earth 39052-07-18 15:22 G 15984709.04 15984709.14 15984709.24 0.2651 0.0946 *

Saturn 39052-09-06 20:53 G 15984759.24 15984759.37 15984759.52 0.0283 0.0189

Saturn 39052-12-04 21:22 G 15984848.20 15984848.39 15984848.58 0.0284 0.0017

Saturn 39053-03-03 21:22 G 15984937.29 15984937.39 15984937.52 0.0286 0.0224

Mars 39053-05-28 01:26 G 15985022.47 15985022.56 15985022.66 0.1601 0.1324

Jupiter 39055-10-24 05:02 G 15985901.55 15985901.71 15985901.87 0.0507 0.0251

Venus 39055-12-06 18:43 G 15985945.18 15985945.28 15985945.39 0.3687 0.0172

Moon 39056-01-17 22:05 G 15985987.26 15985987.42 15985987.58 0.2674 0.0883

Earth 39056-01-17 22:19 G 15985987.27 15985987.43 15985987.58 0.2680 0.1005 *

Uranus 39058-12-12 05:31 G 15987046.62 15987046.73 15987046.84 0.0136 0.0112

Uranus 39059-03-10 12:58 G 15987134.89 15987135.04 15987135.19 0.0136 0.0085

Uranus 39059-06-06 20:10 G 15987223.17 15987223.34 15987223.52 0.0136 0.0058

Earth 39059-07-12 17:02 G 15987259.19 15987259.21 15987259.24 0.2653 0.2558

Moon 39059-07-12 17:17 G 15987259.19 15987259.22 15987259.26 0.2647 0.2509 *

Uranus 39059-09-03 03:36 G 15987311.46 15987311.65 15987311.83 0.0135 0.0032

Uranus 39059-11-30 10:48 G 15987399.76 15987399.95 15987400.14 0.0135 0.0005

Uranus 39060-02-26 18:00 G 15987488.06 15987488.25 15987488.44 0.0135 0.0021

Uranus 39060-05-25 00:58 G 15987576.37 15987576.54 15987576.73 0.0135 0.0048

Uranus 39060-08-21 08:10 G 15987664.69 15987664.84 15987665.01 0.0135 0.0073

Uranus 39060-11-17 15:07 G 15987753.01 15987753.13 15987753.27 0.0135 0.0099

Uranus 39061-02-13 22:19 G 15987841.36 15987841.43 15987841.50 0.0135 0.0125

Jupiter 39061-06-17 00:29 G 15987964.39 15987964.52 15987964.65 0.0519 0.0014

Venus 39061-06-21 10:48 G 15987968.87 15987968.95 15987969.04 0.3687 0.2143

Moon 39065-07-21 08:10 G 15989459.77 15989459.84 15989459.90 0.2657 0.2132

Earth 39065-07-21 08:24 G 15989459.79 15989459.85 15989459.91 0.2651 0.2206 *

Saturn 39065-10-18 08:10 G 15989548.73 15989548.84 15989548.95 0.0280 0.0152

Saturn 39066-01-14 18:58 G 15989637.16 15989637.29 15989637.42 0.0279 0.0022

Saturn 39066-04-13 05:31 G 15989725.61 15989725.73 15989725.85 0.0277 0.0110

Saturn 39066-07-10 16:19 G 15989814.11 15989814.18 15989814.24 0.0276 0.0240

Mars 39067-06-26 14:10 G 15990165.00 15990165.09 15990165.18 0.1929 0.1167

Jupiter 39067-08-12 01:26 G 15990211.38 15990211.56 15990211.75 0.0507 0.0044

Venus 39071-01-02 18:00 G 15991451.10 15991451.25 15991451.39 0.3683 0.0807

Moon 39072-07-14 09:50 G 15992009.82 15992009.91 15992010.00 0.2646 0.1373

Earth 39072-07-14 10:05 G 15992009.83 15992009.92 15992010.01 0.2652 0.1310 *

Jupiter 39073-04-05 05:17 G 15992274.60 15992274.72 15992274.84 0.0519 0.0157

Jupiter 39073-07-03 09:36 G 15992363.84 15992363.90 15992363.97 0.0517 0.0431

Mars 39074-02-13 22:05 G 15992589.37 15992589.42 15992589.47 0.1607 0.1526

Mars 39076-11-15 22:19 G 15993595.32 15993595.43 15993595.55 0.1932 0.0241

Jupiter 39079-05-30 22:19 G 15994521.26 15994521.43 15994521.61 0.0507 0.0161

Saturn 39082-01-24 17:17 G 15995491.16 15995491.22 15995491.30 0.0282 0.0261

Saturn 39082-04-23 18:00 G 15995580.06 15995580.25 15995580.43 0.0284 0.0056

Saturn 39082-07-21 18:00 G 15995669.10 15995669.25 15995669.42 0.0285 0.0151

Mars 39083-07-07 00:14 G 15996019.34 15996019.51 15996019.68 0.1604 0.0213

Jupiter 39085-01-22 09:50 G 15996584.80 15996584.91 15996585.01 0.0520 0.0306

Jupiter 39085-04-21 14:10 G 15996673.98 15996674.09 15996674.19 0.0518 0.0283

Moon 39085-07-17 02:24 G 15996760.50 15996760.60 15996760.71 0.2650 0.0135

Earth 39085-07-17 03:07 G 15996760.52 15996760.63 15996760.74 0.2652 0.0058 *

Mars 39086-04-08 06:14 G 15997025.71 15997025.76 15997025.82 0.1936 0.1677

Neptune 39088-10-21 18:29 G 15997953.24 15997953.27 15997953.32 0.0089 0.0086

Earth 39089-01-14 19:12 G 15998038.17 15998038.30 15998038.43 0.2679 0.1646

Moon 39089-01-14 20:24 G 15998038.21 15998038.35 15998038.48 0.2673 0.1593 *

Neptune 39089-01-17 22:19 G 15998041.33 15998041.43 15998041.54 0.0089 0.0075

Neptune 39089-04-16 01:55 G 15998129.45 15998129.58 15998129.72 0.0089 0.0064

Neptune 39089-07-13 05:31 G 15998217.58 15998217.73 15998217.89 0.0089 0.0053

Neptune 39089-10-09 09:22 G 15998305.72 15998305.89 15998306.06 0.0089 0.0042

Neptune 39090-01-05 12:58 G 15998393.86 15998394.04 15998394.23 0.0089 0.0031

Neptune 39090-04-03 16:34 G 15998482.00 15998482.19 15998482.38 0.0089 0.0020

Neptune 39090-06-30 20:24 G 15998570.15 15998570.35 15998570.54 0.0089 0.0009

Neptune 39090-09-27 00:00 G 15998658.30 15998658.50 15998658.69 0.0089 0.0002

Neptune 39090-12-24 03:36 G 15998746.46 15998746.65 15998746.84 0.0089 0.0013

Jupiter 39091-03-18 18:58 G 15998831.17 15998831.29 15998831.42 0.0506 0.0366

Neptune 39091-03-22 06:58 G 15998834.61 15998834.79 15998834.99 0.0089 0.0024

Jupiter 39091-06-17 07:55 G 15998921.78 15998921.83 15998921.89 0.0508 0.0481

Neptune 39091-06-18 10:34 G 15998922.77 15998922.94 15998923.13 0.0089 0.0035

Neptune 39091-09-14 13:55 G 15999010.93 15999011.08 15999011.26 0.0089 0.0046

Neptune 39091-12-11 17:31 G 15999099.10 15999099.23 15999099.39 0.0089 0.0057

Neptune 39092-03-08 20:53 G 15999187.27 15999187.37 15999187.52 0.0089 0.0068

Neptune 39092-06-05 00:58 G 15999275.46 15999275.54 15999275.63 0.0089 0.0078

Mars 39092-11-26 02:24 G 15999449.48 15999449.60 15999449.72 0.1601 0.1106

Saturn 39095-03-07 09:50 G 16000280.82 16000280.91 16000281.00 0.0280 0.0200

Saturn 39095-06-03 20:24 G 16000369.23 16000369.35 16000369.48 0.0279 0.0069

Saturn 39095-08-31 07:12 G 16000457.67 16000457.80 16000457.93 0.0278 0.0063

Saturn 39095-11-27 17:46 G 16000546.16 16000546.24 16000546.34 0.0276 0.0194

Pluto 39096-03-28 05:46 G 16000667.68 16000667.74 16000667.84 0.0075 0.0069

Pluto 39096-06-24 08:38 G 16000755.72 16000755.86 16000756.02 0.0075 0.0048

Pluto 39096-09-20 11:02 G 16000843.79 16000843.96 16000844.16 0.0075 0.0029

Jupiter 39096-11-10 14:24 G 16000895.04 16000895.10 16000895.17 0.0520 0.0449

Pluto 39096-12-17 13:41 G 16000931.89 16000932.07 16000932.28 0.0075 0.0010

Jupiter 39097-02-07 18:58 G 16000984.17 16000984.29 16000984.41 0.0519 0.0142

Pluto 39097-03-15 16:19 G 16001019.99 16001020.18 16001020.38 0.0075 0.0011

Pluto 39097-06-11 18:43 G 16001108.11 16001108.28 16001108.48 0.0074 0.0030

Pluto 39097-09-07 21:22 G 16001196.25 16001196.39 16001196.55 0.0074 0.0049

Pluto 39097-12-05 00:00 G 16001284.43 16001284.50 16001284.59 0.0074 0.0068

Moon 39098-07-19 19:26 G 16001511.21 16001511.31 16001511.41 0.2654 0.1053

Earth 39098-07-19 20:10 G 16001511.24 16001511.34 16001511.43 0.2651 0.1204 *

Venus 39101-06-14 08:24 G 16002570.80 16002570.85 16002570.90 0.3688 0.3162

Moon 39102-01-19 04:48 G 16002789.56 16002789.70 16002789.83 0.2673 0.1628

Earth 39102-01-19 05:17 G 16002789.59 16002789.72 16002789.85 0.2680 0.1599 *

Uranus 39102-03-02 11:46 G 16002831.93 16002831.99 16002832.06 0.0142 0.0124

Uranus 39102-05-29 15:07 G 16002920.05 16002920.13 16002920.23 0.0142 0.0104

Uranus 39102-08-25 18:43 G 16003008.18 16003008.28 16003008.39 0.0143 0.0083

Uranus 39102-11-21 22:19 G 16003096.31 16003096.43 16003096.55 0.0143 0.0061

Uranus 39103-02-18 01:55 G 16003184.45 16003184.58 16003184.71 0.0143 0.0040

Jupiter 39103-04-06 04:19 G 16003231.52 16003231.68 16003231.84 0.0507 0.0270

Uranus 39103-05-17 05:17 G 16003272.59 16003272.72 16003272.86 0.0143 0.0020

Uranus 39103-08-13 08:53 G 16003360.74 16003360.87 16003361.01 0.0143 0.0004

Uranus 39103-11-09 12:29 G 16003448.89 16003449.02 16003449.15 0.0143 0.0024

Uranus 39104-02-05 16:05 G 16003537.04 16003537.17 16003537.30 0.0143 0.0046

Uranus 39104-05-03 19:41 G 16003625.20 16003625.32 16003625.44 0.0143 0.0067

Uranus 39104-07-30 23:17 G 16003713.37 16003713.47 16003713.58 0.0143 0.0089

Uranus 39104-10-27 02:53 G 16003801.54 16003801.62 16003801.71 0.0143 0.0111

Uranus 39105-01-23 06:29 G 16003889.73 16003889.77 16003889.82 0.0143 0.0133

Moon 39105-07-13 21:50 G 16004061.36 16004061.41 16004061.47 0.2646 0.2267

Earth 39105-07-13 21:50 G 16004061.36 16004061.41 16004061.46 0.2653 0.2307 *

Mars 39106-12-26 14:10 G 16004592.01 16004592.09 16004592.17 0.1928 0.1336

Venus 39106-12-29 00:14 G 16004594.42 16004594.51 16004594.61 0.3688 0.1192

Jupiter 39108-11-27 23:46 G 16005294.37 16005294.49 16005294.62 0.0519 0.0010

Moon 39111-07-23 12:58 G 16006262.01 16006262.04 16006262.07 0.2658 0.2501

Earth 39111-07-23 13:12 G 16006262.01 16006262.05 16006262.08 0.2651 0.2462 *

Saturn 39111-09-11 13:26 G 16006311.89 16006312.06 16006312.22 0.0283 0.0138

Saturn 39111-12-09 13:41 G 16006400.89 16006401.07 16006401.25 0.0284 0.0068

Saturn 39112-03-07 13:41 G 16006490.03 16006490.07 16006490.13 0.0286 0.0275

Venus 39112-07-13 16:19 G 16006618.08 16006618.18 16006618.28 0.3687 0.0839

Jupiter 39115-01-23 01:12 G 16007541.36 16007541.55 16007541.73 0.0507 0.0067

Mars 39116-05-17 22:05 G 16008022.31 16008022.42 16008022.54 0.1932 0.0110

Venus 39118-01-27 08:24 G 16008641.79 16008641.85 16008641.92 0.3686 0.2885

Moon 39118-07-16 14:24 G 16008812.01 16008812.10 16008812.20 0.2646 0.1091

Earth 39118-07-16 14:53 G 16008812.02 16008812.12 16008812.22 0.2652 0.1058 *

Jupiter 39120-09-16 04:34 G 16009604.57 16009604.69 16009604.81 0.0519 0.0143

Jupiter 39120-12-14 08:53 G 16009693.81 16009693.87 16009693.93 0.0517 0.0446

Venus 39122-01-24 12:43 G 16010099.94 16010100.03 16010100.12 0.3683 0.2924

Mars 39123-01-06 00:58 G 16010446.38 16010446.54 16010446.70 0.1604 0.0417

Saturn 39124-07-25 11:17 G 16011012.92 16011012.97 16011013.03 0.0281 0.0251

Saturn 39124-10-21 22:05 G 16011101.30 16011101.42 16011101.54 0.0280 0.0118

Saturn 39125-01-18 08:53 G 16011189.74 16011189.87 16011190.00 0.0279 0.0015

Saturn 39125-04-16 19:26 G 16011278.20 16011278.31 16011278.43 0.0277 0.0146

Saturn 39125-07-14 06:14 G 16011366.75 16011366.76 16011366.77 0.0276 0.0275

Mars 39125-10-08 06:29 G 16011452.70 16011452.77 16011452.84 0.1936 0.1497

Jupiter 39126-11-10 21:22 G 16011851.21 16011851.39 16011851.57 0.0507 0.0146

Venus 39127-08-10 19:26 G 16012124.20 16012124.31 16012124.41 0.3684 0.2617

Moon 39131-07-19 07:12 G 16013562.69 16013562.80 16013562.91 0.2651 0.0092

Earth 39131-07-19 07:55 G 16013562.72 16013562.83 16013562.93 0.2652 0.0227 *

Mars 39132-05-28 02:53 G 16013876.48 16013876.62 16013876.76 0.1602 0.0901

Jupiter 39132-07-05 09:22 G 16013914.78 16013914.89 16013914.99 0.0519 0.0285

Jupiter 39132-10-02 13:41 G 16014003.97 16014004.07 16014004.17 0.0517 0.0303

Earth 39135-01-17 02:10 G 16014840.44 16014840.59 16014840.75 0.2680 0.1053

Moon 39135-01-17 02:53 G 16014840.47 16014840.62 16014840.78 0.2674 0.0915 *

Jupiter 39138-08-29 18:00 G 16016161.12 16016161.25 16016161.39 0.0506 0.0351

Jupiter 39138-11-28 07:12 G 16016251.77 16016251.80 16016251.83 0.0508 0.0499

Saturn 39141-01-28 10:19 G 16017043.80 16017043.93 16017044.06 0.0282 0.0205

Saturn 39141-04-27 10:34 G 16017132.76 16017132.94 16017133.13 0.0284 0.0007

Saturn 39141-07-25 10:34 G 16017221.82 16017221.94 16017222.08 0.0285 0.0206

Uranus 39142-10-06 04:34 G 16017659.67 16017659.69 16017659.72 0.0136 0.0134

Uranus 39143-01-02 12:00 G 16017747.89 16017748.00 16017748.12 0.0136 0.0107

Uranus 39143-03-31 19:12 G 16017836.16 16017836.30 16017836.47 0.0136 0.0081

Uranus 39143-06-28 02:38 G 16017924.44 16017924.61 16017924.79 0.0136 0.0054

Uranus 39143-09-24 10:05 G 16018012.73 16018012.92 16018013.11 0.0135 0.0027

Uranus 39143-12-21 17:17 G 16018101.03 16018101.22 16018101.41 0.0135 0.0002

Uranus 39144-03-19 00:29 G 16018189.34 16018189.52 16018189.71 0.0135 0.0026

Jupiter 39144-04-23 13:41 G 16018225.01 16018225.07 16018225.14 0.0520 0.0434

Uranus 39144-06-15 07:26 G 16018277.65 16018277.81 16018278.00 0.0135 0.0053

Moon 39144-07-21 00:14 G 16018313.42 16018313.51 16018313.60 0.2655 0.1430

Earth 39144-07-21 00:43 G 16018313.44 16018313.53 16018313.62 0.2651 0.1454 *

Jupiter 39144-07-21 18:00 G 16018314.13 16018314.25 16018314.37 0.0518 0.0154

Uranus 39144-09-11 14:38 G 16018365.96 16018366.11 16018366.27 0.0135 0.0078

Uranus 39144-12-08 21:36 G 16018454.29 16018454.40 16018454.53 0.0135 0.0104

Uranus 39145-03-07 04:48 G 16018542.66 16018542.70 16018542.76 0.0135 0.0129

Mars 39146-06-26 14:10 G 16019019.02 16019019.09 16019019.16 0.1928 0.1487

Moon 39148-01-20 11:31 G 16019591.88 16019591.98 16019592.09 0.2673 0.2008

Earth 39148-01-20 12:14 G 16019591.92 16019592.01 16019592.10 0.2680 0.2199 *

Jupiter 39150-09-16 04:05 G 16020561.52 16020561.67 16020561.82 0.0507 0.0295

Moon 39151-07-15 02:38 G 16020863.54 16020863.61 16020863.67 0.2646 0.2090

Earth 39151-07-15 02:38 G 16020863.54 16020863.61 16020863.67 0.2653 0.2053 *

Saturn 39154-03-10 23:46 G 16021833.39 16021833.49 16021833.59 0.0280 0.0166

Saturn 39154-06-07 10:34 G 16021921.81 16021921.94 16021922.07 0.0279 0.0033

Saturn 39154-09-03 21:22 G 16022010.26 16022010.39 16022010.51 0.0278 0.0099

Saturn 39154-12-01 07:55 G 16022098.76 16022098.83 16022098.90 0.0277 0.0229

Mars 39155-11-16 22:19 G 16022449.31 16022449.43 16022449.54 0.1932 0.0090

Jupiter 39156-05-09 22:48 G 16022624.32 16022624.45 16022624.57 0.0519 0.0012

Moon 39157-07-23 17:46 G 16023064.24 16023064.24 16023064.24 0.2658 0.2654

Venus 39158-01-19 06:00 G 16023243.67 16023243.75 16023243.82 0.3688 0.2457

Jupiter 39162-07-05 00:14 G 16024871.33 16024871.51 16024871.70 0.0507 0.0083

Mars 39162-07-07 01:41 G 16024873.41 16024873.57 16024873.72 0.1604 0.0629

Venus 39163-08-04 21:50 G 16025267.31 16025267.41 16025267.52 0.3687 0.0470

Moon 39164-07-16 19:12 G 16025614.19 16025614.30 16025614.40 0.2647 0.0855

Earth 39164-07-16 19:26 G 16025614.21 16025614.31 16025614.42 0.2652 0.0812 *

Mars 39165-04-08 06:14 G 16025879.68 16025879.76 16025879.84 0.1935 0.1356

Jupiter 39168-02-27 03:36 G 16026934.53 16026934.65 16026934.77 0.0520 0.0131

Jupiter 39168-05-26 08:10 G 16027023.78 16027023.84 16027023.90 0.0518 0.0460

Neptune 39169-02-13 05:17 G 16027286.71 16027286.72 16027286.76 0.0089 0.0087

Venus 39169-02-17 13:55 G 16027290.99 16027291.08 16027291.18 0.3687 0.1573

Neptune 39169-05-12 06:43 G 16027374.73 16027374.78 16027374.84 0.0089 0.0079

Neptune 39169-08-08 07:55 G 16027462.76 16027462.83 16027462.91 0.0089 0.0072

Neptune 39169-11-04 09:07 G 16027550.80 16027550.88 16027550.98 0.0089 0.0065

Neptune 39170-01-31 10:48 G 16027638.85 16027638.95 16027639.05 0.0089 0.0057

Neptune 39170-04-29 11:46 G 16027726.89 16027726.99 16027727.11 0.0089 0.0050

Neptune 39170-07-26 12:58 G 16027814.94 16027815.04 16027815.17 0.0089 0.0043

Saturn 39170-09-14 06:43 G 16027864.60 16027864.78 16027864.96 0.0283 0.0078

Neptune 39170-10-22 14:38 G 16027902.99 16027903.11 16027903.23 0.0089 0.0035

Saturn 39170-12-12 06:43 G 16027953.62 16027953.78 16027953.95 0.0284 0.0127

Neptune 39171-01-18 15:50 G 16027991.03 16027991.16 16027991.29 0.0089 0.0028

Neptune 39171-04-16 17:02 G 16028079.09 16028079.21 16028079.34 0.0089 0.0020

Neptune 39171-07-13 18:29 G 16028167.14 16028167.27 16028167.40 0.0089 0.0013

Neptune 39171-10-09 19:41 G 16028255.19 16028255.32 16028255.45 0.0089 0.0005

Mars 39171-11-27 03:36 G 16028303.50 16028303.65 16028303.80 0.1602 0.0696

Neptune 39172-01-05 20:53 G 16028343.24 16028343.37 16028343.51 0.0089 0.0004

Neptune 39172-04-02 22:19 G 16028431.30 16028431.43 16028431.56 0.0089 0.0009

Neptune 39172-06-29 23:31 G 16028519.35 16028519.48 16028519.61 0.0089 0.0017

Neptune 39172-09-26 00:43 G 16028607.41 16028607.53 16028607.67 0.0089 0.0025

Neptune 39172-12-23 02:10 G 16028695.47 16028695.59 16028695.72 0.0089 0.0032

Neptune 39173-03-21 03:22 G 16028783.53 16028783.64 16028783.77 0.0089 0.0039

Neptune 39173-06-17 04:48 G 16028871.59 16028871.70 16028871.81 0.0089 0.0047

Neptune 39173-09-13 05:46 G 16028959.65 16028959.74 16028959.86 0.0089 0.0055

Neptune 39173-12-10 07:12 G 16029047.72 16029047.80 16029047.91 0.0089 0.0062

Neptune 39174-03-08 08:38 G 16029135.78 16029135.86 16029135.95 0.0089 0.0069

Jupiter 39174-04-22 20:53 G 16029181.19 16029181.37 16029181.56 0.0506 0.0123

Neptune 39174-06-04 09:50 G 16029223.86 16029223.91 16029223.99 0.0089 0.0077

Neptune 39174-08-31 11:17 G 16029311.94 16029311.97 16029312.02 0.0088 0.0084

Venus 39174-09-03 06:00 G 16029314.74 16029314.75 16029314.76 0.3686 0.3642

Moon 39177-07-19 11:46 G 16030364.89 16030364.99 16030365.10 0.2652 0.0371

Earth 39177-07-19 12:29 G 16030364.91 16030365.02 16030365.13 0.2652 0.0449 *

Venus 39178-08-31 14:24 G 16030772.96 16030773.10 16030773.24 0.3683 0.1038

Jupiter 39179-12-16 08:24 G 16031244.75 16031244.85 16031244.96 0.0519 0.0273

Jupiter 39180-03-14 12:43 G 16031333.94 16031334.03 16031334.13 0.0518 0.0316

Moon 39181-01-17 09:36 G 16031642.73 16031642.90 16031643.06 0.2673 0.0420

Earth 39181-01-17 09:22 G 16031642.73 16031642.89 16031643.05 0.2680 0.0447 *

Saturn 39183-07-29 01:26 G 16032565.48 16032565.56 16032565.64 0.0281 0.0215

Saturn 39183-10-25 12:14 G 16032653.88 16032654.01 16032654.13 0.0280 0.0082

Saturn 39184-01-21 22:48 G 16032742.33 16032742.45 16032742.58 0.0279 0.0052

Saturn 39184-04-19 09:36 G 16032830.81 16032830.90 16032831.00 0.0278 0.0182

Uranus 39185-12-24 15:36 G 16033445.13 16033445.15 16033445.18 0.0142 0.0139

Mars 39185-12-25 14:10 G 16033446.04 16033446.09 16033446.15 0.1928 0.1661

Jupiter 39186-02-08 16:48 G 16033491.06 16033491.20 16033491.34 0.0507 0.0341

Uranus 39186-03-22 19:12 G 16033533.23 16033533.30 16033533.37 0.0142 0.0118

Uranus 39186-06-18 22:34 G 16033621.35 16033621.44 16033621.54 0.0143 0.0098

Uranus 39186-09-15 02:10 G 16033709.48 16033709.59 16033709.70 0.0143 0.0077

Uranus 39186-12-12 05:46 G 16033797.62 16033797.74 16033797.86 0.0143 0.0056

Uranus 39187-03-10 09:07 G 16033885.76 16033885.88 16033886.01 0.0143 0.0035

Uranus 39187-06-06 12:43 G 16033973.90 16033974.03 16033974.17 0.0143 0.0014

Uranus 39187-09-02 16:19 G 16034062.05 16034062.18 16034062.31 0.0143 0.0009

Uranus 39187-11-29 19:55 G 16034150.20 16034150.33 16034150.46 0.0143 0.0030

Uranus 39188-02-25 23:31 G 16034238.36 16034238.48 16034238.60 0.0143 0.0052

Uranus 39188-05-24 03:07 G 16034326.52 16034326.63 16034326.74 0.0143 0.0073

Uranus 39188-08-20 06:43 G 16034414.68 16034414.78 16034414.88 0.0143 0.0095

Uranus 39188-11-16 10:19 G 16034502.86 16034502.93 16034503.01 0.0143 0.0117

Uranus 39189-02-12 13:55 G 16034591.06 16034591.08 16034591.12 0.0143 0.0139

Moon 39190-07-22 05:02 G 16035115.63 16035115.71 16035115.80 0.2656 0.1611

Earth 39190-07-22 05:31 G 16035115.65 16035115.73 16035115.81 0.2651 0.1708 *

Jupiter 39191-10-04 13:12 G 16035554.98 16035555.05 16035555.13 0.0520 0.0415

Jupiter 39192-01-01 17:31 G 16035644.11 16035644.23 16035644.35 0.0518 0.0172

Mars 39195-05-17 22:19 G 16036876.31 16036876.43 16036876.54 0.1932 0.0245

Moon 39197-07-15 07:12 G 16037665.72 16037665.80 16037665.88 0.2645 0.1752

Earth 39197-07-15 07:12 G 16037665.73 16037665.80 16037665.88 0.2653 0.1801 *

Jupiter 39198-02-26 02:38 G 16037891.47 16037891.61 16037891.77 0.0508 0.0307

Saturn 39200-02-01 03:50 G 16038596.51 16038596.66 16038596.83 0.0282 0.0143

Saturn 39200-04-30 04:19 G 16038685.49 16038685.68 16038685.86 0.0284 0.0063

Saturn 39200-07-28 04:19 G 16038774.62 16038774.68 16038774.74 0.0285 0.0268

Mars 39202-01-05 02:10 G 16039300.45 16039300.59 16039300.74 0.1604 0.0839

Jupiter 39203-10-20 21:50 G 16039954.29 16039954.41 16039954.54 0.0519 0.0026

Mars 39204-10-07 06:14 G 16040306.67 16040306.76 16040306.85 0.1935 0.1192

Jupiter 39209-12-14 23:31 G 16042201.30 16042201.48 16042201.67 0.0507 0.0102

Moon 39210-07-17 23:46 G 16042416.38 16042416.49 16042416.59 0.2649 0.0659

Earth 39210-07-18 00:14 G 16042416.41 16042416.51 16042416.62 0.2652 0.0549 *

Mars 39211-05-28 04:19 G 16042730.52 16042730.68 16042730.84 0.1602 0.0479

Saturn	39212-12-15 03:07 G	16043297.59	16043297.63	16043297.68	0.0281	0.0261	
Saturn	39213-03-13 14:10 G	16043385.97	16043386.09	16043386.20	0.0280	0.0126	
Saturn	39213-06-10 00:58 G	16043474.41	16043474.54	16043474.67	0.0279	0.0009	
Saturn	39213-09-06 11:31 G	16043562.87	16043562.98	16043563.10	0.0278	0.0139	
Saturn	39213-12-03 22:19 G	16043651.41	16043651.43	16043651.46	0.0277	0.0269	
Venus	39214-08-26 03:36 G	16043916.55	16043916.65	16043916.74	0.3688	0.1749	
Jupiter	39215-08-09 02:38 G	16044264.48	16044264.61	16044264.73	0.0519	0.0124	
Jupiter	39215-11-06 06:58 G	16044353.74	16044353.79	16044353.85	0.0517	0.0465	
Venus	39220-03-10 19:26 G	16045940.21	16045940.31	16045940.42	0.3687	0.0275	
Jupiter	39221-10-02 19:41 G	16046511.14	16046511.32	16046511.50	0.0506	0.0112	
Moon	39223-07-20 16:34 G	16047167.09	16047167.19	16047167.29	0.2652	0.0602	
Earth	39223-07-20 17:17 G	16047167.11	16047167.22	16047167.32	0.2652	0.0705	*
Mars	39225-06-25 14:10 G	16047873.05	16047873.09	16047873.12	0.1928	0.1817	
Venus	39225-09-24 11:31 G	16047963.90	16047963.98	16047964.06	0.3687	0.2311	
Uranus	39226-10-26 11:17 G	16048360.92	16048360.97	16048361.04	0.0136	0.0129	
Moon	39227-01-18 16:19 G	16048445.01	16048445.18	16048445.35	0.2673	0.0107	
Earth	39227-01-18 16:19 G	16048445.02	16048445.18	16048445.35	0.2680	0.0161	*
Uranus	39227-01-22 18:43 G	16048449.16	16048449.28	16048449.42	0.0136	0.0102	
Uranus	39227-04-21 02:10 G	16048537.44	16048537.59	16048537.76	0.0136	0.0075	
Jupiter	39227-05-28 07:26 G	16048574.70	16048574.81	16048574.92	0.0520	0.0266	
Uranus	39227-07-18 09:36 G	16048625.72	16048625.90	16048626.08	0.0135	0.0048	
Jupiter	39227-08-25 11:46 G	16048663.89	16048663.99	16048664.09	0.0518	0.0324	
Uranus	39227-10-14 16:48 G	16048714.01	16048714.20	16048714.39	0.0135	0.0021	
Uranus	39228-01-11 00:00 G	16048802.31	16048802.50	16048802.70	0.0135	0.0006	
Uranus	39228-04-08 07:12 G	16048890.62	16048890.80	16048890.99	0.0135	0.0032	
Uranus	39228-07-05 14:24 G	16048978.93	16048979.10	16048979.28	0.0135	0.0058	
Uranus	39228-10-01 21:36 G	16049067.25	16049067.40	16049067.55	0.0135	0.0083	
Uranus	39228-12-29 04:34 G	16049155.58	16049155.69	16049155.80	0.0135	0.0109	
Uranus	39229-03-27 11:31 G	16049243.98	16049243.98	16049244.00	0.0135	0.0135	
Saturn	39229-06-20 00:58 G	16049328.42	16049328.54	16049328.66	0.0282	0.0212	

Saturn 39229-09-17 01:12 G 16049417.36 16049417.55 16049417.74 0.0283 0.0010

Saturn 39229-12-15 01:12 G 16049506.42 16049506.55 16049506.69 0.0285 0.0197

Jupiter 39233-07-21 16:05 G 16050821.03 16050821.17 16050821.32 0.0506 0.0320

Mars 39234-11-15 22:05 G 16051303.31 16051303.42 16051303.53 0.1932 0.0385

Venus 39235-04-07 15:50 G 16051446.02 16051446.16 16051446.31 0.3683 0.0811

Moon 39236-07-22 09:50 G 16051917.84 16051917.91 16051917.98 0.2657 0.1939

Earth 39236-07-22 10:19 G 16051917.86 16051917.93 16051918.00 0.2651 0.1960 *

Jupiter 39239-03-16 12:14 G 16052884.93 16052885.01 16052885.09 0.0520 0.0406

Jupiter 39239-06-13 16:34 G 16052974.07 16052974.19 16052974.31 0.0518 0.0181

Mars 39241-07-06 02:53 G 16053727.49 16053727.62 16053727.75 0.1605 0.1042

Saturn 39242-07-31 15:50 G 16054118.06 16054118.16 16054118.27 0.0281 0.0174

Saturn 39242-10-28 02:38 G 16054206.48 16054206.61 16054206.74 0.0280 0.0040

Saturn 39243-01-24 13:26 G 16054294.94 16054295.06 16054295.19 0.0279 0.0093

Saturn 39243-04-23 00:14 G 16054383.44 16054383.51 16054383.59 0.0277 0.0224

Moon 39243-07-16 12:00 G 16054467.91 16054468.00 16054468.08 0.2646 0.1616

Earth 39243-07-16 12:00 G 16054467.91 16054468.00 16054468.09 0.2652 0.1545 *

Mars 39244-04-07 06:14 G 16054733.67 16054733.76 16054733.86 0.1935 0.1023

Jupiter 39245-08-08 00:58 G 16055221.40 16055221.54 16055221.69 0.0508 0.0310

Mars 39250-11-26 05:02 G 16057157.54 16057157.71 16057157.87 0.1602 0.0270

Jupiter 39251-04-01 21:22 G 16057284.26 16057284.39 16057284.51 0.0518 0.0041

Neptune 39253-07-19 17:17 G 16058124.16 16058124.22 16058124.32 0.0089 0.0081

Neptune 39253-10-15 20:53 G 16058212.27 16058212.37 16058212.51 0.0089 0.0070

Neptune 39254-01-12 00:43 G 16058300.40 16058300.53 16058300.69 0.0089 0.0059

Neptune 39254-04-10 04:19 G 16058388.53 16058388.68 16058388.86 0.0089 0.0048

Neptune 39254-07-07 08:10 G 16058476.67 16058476.84 16058477.03 0.0089 0.0037

Neptune 39254-10-03 11:46 G 16058564.81 16058564.99 16058565.19 0.0089 0.0026

Neptune 39254-12-30 15:36 G 16058652.96 16058653.15 16058653.35 0.0089 0.0014

Neptune 39255-03-28 19:12 G 16058741.11 16058741.30 16058741.50 0.0089 0.0004

Neptune 39255-06-24 22:48 G 16058829.26 16058829.45 16058829.65 0.0089 0.0008

Neptune 39255-09-21 02:24 G 16058917.42 16058917.60 16058917.80 0.0089 0.0019

Neptune 39255-12-18 06:00 G 16059005.57 16059005.75 16059005.94 0.0089 0.0030

Neptune 39256-03-15 09:22 G 16059093.73 16059093.89 16059094.08 0.0089 0.0041

Neptune 39256-06-11 12:58 G 16059181.90 16059182.04 16059182.21 0.0089 0.0052

Moon 39256-07-18 04:19 G 16059218.57 16059218.68 16059218.79 0.2649 0.0334

Earth 39256-07-18 05:02 G 16059218.60 16059218.71 16059218.81 0.2652 0.0302 *

Neptune 39256-09-07 17:02 G 16059270.07 16059270.21 16059270.34 0.0089 0.0062

Neptune 39256-12-04 20:24 G 16059358.25 16059358.35 16059358.46 0.0089 0.0073

Pluto 39257-01-05 16:19 G 16059390.12 16059390.18 16059390.25 0.0069 0.0059

Neptune 39257-03-02 23:46 G 16059446.44 16059446.49 16059446.56 0.0089 0.0084

Pluto 39257-04-03 16:48 G 16059478.12 16059478.20 16059478.30 0.0069 0.0049

Jupiter 39257-05-26 21:50 G 16059531.22 16059531.41 16059531.59 0.0507 0.0105

Pluto 39257-06-30 17:17 G 16059566.12 16059566.22 16059566.34 0.0069 0.0039

Pluto 39257-09-26 17:46 G 16059654.13 16059654.24 16059654.37 0.0069 0.0029

Pluto 39257-12-23 18:29 G 16059742.15 16059742.27 16059742.40 0.0069 0.0019

Pluto 39258-03-21 18:58 G 16059830.17 16059830.29 16059830.43 0.0069 0.0009

Pluto 39258-06-17 19:41 G 16059918.19 16059918.32 16059918.45 0.0069 0.0002

Pluto 39258-09-13 20:10 G 16060006.21 16060006.34 16060006.47 0.0070 0.0013

Saturn 39258-11-06 22:48 G 16060060.41 16060060.45 16060060.52 0.0281 0.0270

Pluto 39258-12-10 20:38 G 16060094.24 16060094.36 16060094.49 0.0070 0.0023

Saturn 39259-02-03 23:17 G 16060149.29 16060149.47 16060149.66 0.0283 0.0066

Pluto 39259-03-08 21:07 G 16060182.28 16060182.38 16060182.50 0.0070 0.0034

Saturn 39259-05-03 23:17 G 16060238.31 16060238.47 16060238.64 0.0284 0.0139

Pluto 39259-06-04 21:36 G 16060270.31 16060270.40 16060270.51 0.0070 0.0045

Pluto 39259-08-31 22:19 G 16060358.36 16060358.43 16060358.52 0.0070 0.0055

Pluto 39259-11-27 22:48 G 16060446.42 16060446.45 16060446.50 0.0070 0.0066

Earth 39260-01-16 13:26 G 16060496.00 16060496.06 16060496.12 0.2679 0.2496

Moon 39260-01-16 14:24 G 16060496.04 16060496.10 16060496.16 0.2674 0.2459 *

Mars 39260-04-17 06:58 G 16060587.78 16060587.79 16060587.80 0.1599 0.1594

Jupiter 39263-01-19 01:26 G 16061594.44 16061594.56 16061594.69 0.0519 0.0116

Jupiter 39263-04-18 06:00 G 16061683.70 16061683.75 16061683.80 0.0517 0.0472

Venus 39265-09-16 09:07 G 16062565.82 16062565.88 16062565.94 0.3688 0.3008

Jupiter 39269-03-14 18:29 G 16063841.09 16063841.27 16063841.45 0.0507 0.0101

Moon 39269-07-20 21:22 G 16063969.29 16063969.39 16063969.49 0.2653 0.0857

Earth 39269-07-20 21:50 G 16063969.31 16063969.41 16063969.51 0.2652 0.0964 *

Uranus 39270-01-13 22:48 G 16064146.42 16064146.45 16064146.50 0.0142 0.0135

Uranus 39270-04-12 02:24 G 16064234.52 16064234.60 16064234.68 0.0143 0.0114

Uranus 39270-07-09 05:46 G 16064322.65 16064322.74 16064322.84 0.0143 0.0093

Uranus 39270-10-05 09:22 G 16064410.78 16064410.89 16064411.00 0.0143 0.0072

Uranus 39271-01-01 12:58 G 16064498.92 16064499.04 16064499.16 0.0143 0.0051

Uranus 39271-03-30 16:19 G 16064587.06 16064587.18 16064587.31 0.0143 0.0030

Venus 39271-04-02 00:58 G 16064589.44 16064589.54 16064589.64 0.3688 0.1026

Uranus 39271-06-26 19:55 G 16064675.20 16064675.33 16064675.46 0.0143 0.0009

Uranus 39271-09-22 23:31 G 16064763.35 16064763.48 16064763.61 0.0143 0.0013

Saturn 39271-12-18 18:14 G 16064850.18 16064850.26 16064850.34 0.0281 0.0216

Uranus 39271-12-20 03:07 G 16064851.50 16064851.63 16064851.76 0.0143 0.0035

Saturn 39272-03-16 04:48 G 16064938.58 16064938.70 16064938.83 0.0280 0.0083

Uranus 39272-03-17 06:43 G 16064939.66 16064939.78 16064939.90 0.0143 0.0057

Saturn 39272-06-12 15:36 G 16065027.03 16065027.15 16065027.28 0.0279 0.0053

Uranus 39272-06-13 10:19 G 16065027.82 16065027.93 16065028.04 0.0143 0.0078

Saturn 39272-09-09 02:24 G 16065115.51 16065115.60 16065115.70 0.0278 0.0184

Uranus 39272-09-09 13:55 G 16065115.99 16065116.08 16065116.18 0.0143 0.0100

Uranus 39272-12-06 17:31 G 16065204.17 16065204.23 16065204.30 0.0143 0.0123

Moon 39273-01-18 23:17 G 16065247.31 16065247.47 16065247.63 0.2673 0.0795

Earth 39273-01-18 23:31 G 16065247.32 16065247.48 16065247.63 0.2680 0.0762 *

Mars 39274-05-16 22:05 G 16065730.31 16065730.42 16065730.53 0.1932 0.0555

Jupiter 39274-11-07 06:00 G 16065904.65 16065904.75 16065904.86 0.0519 0.0263

Jupiter 39275-02-04 10:19 G 16065993.84 16065993.93 16065994.03 0.0518 0.0327

Earth 39276-07-13 23:46 G 16066519.46 16066519.49 16066519.52 0.2653 0.2540

Moon 39276-07-14 00:00 G 16066519.47 16066519.50 16066519.52 0.2646 0.2552 *

Venus 39276-10-15 17:02 G 16066613.11 16066613.21 16066613.31 0.3687 0.1004

Jupiter 39280-12-31 14:24 G 16068150.96 16068151.10 16068151.25 0.0506 0.0315

Mars 39281-01-04 03:36 G 16068154.55 16068154.65 16068154.75 0.1605 0.1256

Venus 39282-05-01 09:07 G 16068636.82 16068636.88 16068636.93 0.3687 0.3057

Moon 39282-07-23 14:38 G 16068720.05 16068720.11 16068720.17 0.2658 0.2170

Earth 39282-07-23 14:53 G 16068720.07 16068720.12 16068720.18 0.2651 0.2218 *

Mars 39283-10-07 06:14 G 16069160.66 16069160.76 16069160.86 0.1935 0.0869

Venus 39286-04-28 10:34 G 16070094.86 16070094.94 16070095.03 0.3683 0.2958

Jupiter 39286-08-26 10:48 G 16070214.88 16070214.95 16070215.03 0.0520 0.0406

Jupiter 39286-11-23 15:07 G 16070304.01 16070304.13 16070304.25 0.0518 0.0184

Saturn 39288-06-22 20:53 G 16070881.21 16070881.37 16070881.54 0.0282 0.0130

Saturn 39288-09-19 21:07 G 16070970.20 16070970.38 16070970.56 0.0284 0.0074

Saturn 39288-12-17 21:07 G 16071059.35 16071059.38 16071059.42 0.0285 0.0279

Moon 39289-07-16 16:34 G 16071270.09 16071270.19 16071270.28 0.2647 0.1280

Earth 39289-07-16 16:48 G 16071270.10 16071270.20 16071270.29 0.2652 0.1294 *

Mars 39290-05-27 05:31 G 16071584.56 16071584.73 16071584.90 0.1602 0.0073

Venus 39291-11-12 17:17 G 16072119.11 16072119.22 16072119.32 0.3684 0.2620

Jupiter 39293-01-17 23:46 G 16072551.35 16072551.49 16072551.64 0.0508 0.0325

Jupiter 39298-09-11 20:10 G 16074614.21 16074614.34 16074614.46 0.0518 0.0046

Mars 39299-10-17 07:41 G 16075014.74 16075014.82 16075014.90 0.1600 0.1388

Saturn 39301-05-07 20:10 G 16075582.30 16075582.34 16075582.40 0.0282 0.0259

Saturn 39301-08-04 07:12 G 16075670.68 16075670.80 16075670.91 0.0281 0.0124

Saturn 39301-10-31 18:00 G 16075759.12 16075759.25 16075759.38 0.0280 0.0012

Saturn 39302-01-28 04:48 G 16075847.58 16075847.70 16075847.81 0.0278 0.0143

Saturn 39302-04-26 15:22 G 16075936.13 16075936.14 16075936.16 0.0277 0.0274

Moon 39302-07-20 09:07 G 16076020.77 16076020.88 16076020.98 0.2649 0.0203

Earth 39302-07-20 09:36 G 16076020.80 16076020.90 16076021.01 0.2652 0.0088 *

Jupiter 39304-11-06 19:26 G 16076861.13 16076861.31 16076861.49 0.0508 0.0101

Earth 39306-01-17 20:24 G 16077298.23 16077298.35 16077298.46 0.2679 0.1901

Moon 39306-01-17 20:53 G 16077298.24 16077298.37 16077298.50 0.2673 0.1713 *

Jupiter 39310-07-02 00:43 G 16078924.41 16078924.53 16078924.65 0.0519 0.0103

Jupiter 39310-09-29 05:02 G 16079013.67 16079013.71 16079013.75 0.0517 0.0484

Uranus 39310-11-16 18:29 G 16079062.19 16079062.27 16079062.36 0.0136 0.0122

Uranus 39311-02-13 01:55 G 16079150.45 16079150.58 16079150.72 0.0136 0.0095

Uranus 39311-05-12 09:22 G 16079238.72 16079238.89 16079239.06 0.0135 0.0068

Uranus 39311-08-08 16:34 G 16079327.01 16079327.19 16079327.38 0.0135 0.0041

Uranus 39311-11-04 23:46 G 16079415.31 16079415.49 16079415.69 0.0135 0.0015

Uranus 39312-02-01 07:12 G 16079503.61 16079503.80 16079503.99 0.0135 0.0012

Uranus 39312-04-29 14:10 G 16079591.91 16079592.09 16079592.28 0.0135 0.0038

Uranus 39312-07-26 21:22 G 16079680.23 16079680.39 16079680.56 0.0135 0.0064

Uranus 39312-10-23 04:19 G 16079768.55 16079768.68 16079768.83 0.0135 0.0090

Uranus 39313-01-19 11:17 G 16079856.89 16079856.97 16079857.08 0.0135 0.0116

Mars 39313-11-15 22:05 G 16080157.32 16080157.42 16080157.53 0.1931 0.0732

Moon 39315-07-23 02:10 G 16080771.49 16080771.59 16080771.68 0.2655 0.1175

Earth 39315-07-23 02:38 G 16080771.52 16080771.61 16080771.71 0.2651 0.1211 *

Jupiter 39316-08-25 16:05 G 16081170.99 16081171.17 16081171.35 0.0507 0.0107

Saturn 39317-11-10 19:55 G 16081613.19 16081613.33 16081613.48 0.0282 0.0181

Saturn 39318-02-07 20:10 G 16081702.15 16081702.34 16081702.53 0.0283 0.0023

Saturn 39318-05-07 19:55 G 16081791.23 16081791.33 16081791.45 0.0284 0.0229

Moon 39319-01-21 06:14 G 16082049.61 16082049.76 16082049.91 0.2673 0.1236

Earth 39319-01-21 06:29 G 16082049.63 16082049.77 16082049.91 0.2680 0.1361 *

Mars 39320-07-06 04:19 G 16082581.61 16082581.68 16082581.74 0.1605 0.1464

Jupiter 39322-04-20 04:48 G 16083234.60 16083234.70 16083234.81 0.0519 0.0258

Venus 39322-04-24 06:43 G 16083238.70 16083238.78 16083238.86 0.3688 0.2304

Moon 39322-07-16 04:34 G 16083321.64 16083321.69 16083321.75 0.2646 0.2222

Earth 39322-07-16 04:34 G 16083321.64 16083321.69 16083321.74 0.2653 0.2288 *

Jupiter 39322-07-18 09:22 G 16083323.79 16083323.89 16083323.98 0.0517 0.0331

Mars 39323-04-08 06:14 G 16083587.65 16083587.76 16083587.86 0.1935 0.0717

Venus 39327-11-07 22:34 G 16085262.34 16085262.44 16085262.54 0.3688 0.0295

Jupiter 39328-06-13 12:43 G 16085480.88 16085481.03 16085481.17 0.0506 0.0313

Moon 39328-07-24 19:26 G 16085522.27 16085522.31 16085522.35 0.2657 0.2439

Earth 39328-07-24 19:41 G 16085522.29 16085522.32 16085522.36 0.2651 0.2471 *

Mars 39329-11-26 06:29 G 16086011.60 16086011.77 16086011.93 0.1602 0.0153

Saturn 39330-12-22 09:36 G 16086402.80 16086402.90 16086403.01 0.0281 0.0162

Saturn 39331-03-20 20:24 G 16086491.22 16086491.35 16086491.48 0.0280 0.0029

Saturn 39331-06-17 07:12 G 16086579.68 16086579.80 16086579.92 0.0279 0.0106

Saturn 39331-09-13 18:00 G 16086668.19 16086668.25 16086668.32 0.0278 0.0237

Venus 39333-05-23 14:38 G 16087286.01 16087286.11 16087286.20 0.3687 0.1737

Neptune 39333-11-11 05:17 G 16087457.69 16087457.72 16087457.78 0.0089 0.0083

Jupiter 39334-02-06 09:22 G 16087544.82 16087544.89 16087544.97 0.0520 0.0406

Neptune 39334-02-07 06:29 G 16087545.72 16087545.77 16087545.85 0.0089 0.0076

Neptune 39334-05-06 07:55 G 16087633.76 16087633.83 16087633.92 0.0089 0.0068

Jupiter 39334-05-06 13:41 G 16087633.95 16087634.07 16087634.19 0.0518 0.0182

Neptune 39334-08-02 09:07 G 16087721.80 16087721.88 16087721.99 0.0089 0.0061

Neptune 39334-10-29 10:19 G 16087809.84 16087809.93 16087810.05 0.0089 0.0054

Neptune 39335-01-25 12:00 G 16087897.89 16087898.00 16087898.11 0.0089 0.0046

Neptune 39335-04-23 13:12 G 16087985.93 16087986.05 16087986.17 0.0089 0.0038

Moon 39335-07-18 21:07 G 16088072.28 16088072.38 16088072.47 0.2647 0.1149

Earth 39335-07-18 21:22 G 16088072.30 16088072.39 16088072.49 0.2652 0.1044 *

Neptune 39335-07-20 14:38 G 16088073.98 16088074.11 16088074.23 0.0089 0.0031

Neptune 39335-10-16 15:50 G 16088162.03 16088162.16 16088162.29 0.0089 0.0024

Neptune 39336-01-12 17:02 G 16088250.08 16088250.21 16088250.34 0.0089 0.0016

Neptune 39336-04-09 18:29 G 16088338.14 16088338.27 16088338.40 0.0089 0.0009

Neptune 39336-07-06 19:41 G 16088426.19 16088426.32 16088426.46 0.0089 0.0002

Neptune 39336-10-02 21:07 G 16088514.24 16088514.38 16088514.51 0.0089 0.0006

Neptune 39336-12-29 22:19 G 16088602.30 16088602.43 16088602.56 0.0089 0.0014

Neptune 39337-03-27 23:31 G 16088690.36 16088690.48 16088690.61 0.0089 0.0021

Neptune 39337-06-24 00:43 G 16088778.41 16088778.53 16088778.66 0.0089 0.0029

Neptune 39337-09-20 02:10 G 16088866.47 16088866.59 16088866.72 0.0089 0.0036

Neptune 39337-12-17 03:22 G 16088954.53 16088954.64 16088954.76 0.0089 0.0044

Neptune 39338-03-15 04:48 G 16089042.59 16089042.70 16089042.81 0.0089 0.0051

Neptune 39338-06-11 06:00 G 16089130.66 16089130.75 16089130.86 0.0089 0.0058

Neptune 39338-09-07 07:26 G 16089218.73 16089218.81 16089218.90 0.0089 0.0066

Neptune 39338-12-04 08:38 G 16089306.80 16089306.86 16089306.94 0.0088 0.0073

Neptune 39339-03-02 09:50 G 16089394.87 16089394.91 16089394.98 0.0088 0.0081

Mars 39339-04-18 08:10 G 16089441.73 16089441.84 16089441.96 0.1600 0.1181

Neptune 39339-05-29 11:17 G 16089482.97 16089482.97 16089482.99 0.0088 0.0088

Jupiter 39340-06-30 21:36 G 16089881.26 16089881.40 16089881.55 0.0507 0.0323

Venus 39342-12-04 12:00 G 16090767.86 16090768.00 16090768.14 0.3683 0.1102

Pluto 39343-02-10 16:05 G 16090836.10 16090836.17 16090836.29 0.0075 0.0065

Pluto 39343-05-09 18:58 G 16090924.15 16090924.29 16090924.46 0.0075 0.0045

Pluto 39343-08-05 21:50 G 16091012.23 16091012.41 16091012.60 0.0075 0.0025

Pluto 39343-11-02 00:29 G 16091100.32 16091100.52 16091100.72 0.0075 0.0006

Pluto 39344-01-29 02:53 G 16091188.43 16091188.62 16091188.82 0.0075 0.0014

Pluto 39344-04-26 05:17 G 16091276.56 16091276.72 16091276.91 0.0074 0.0033

Pluto 39344-07-23 07:41 G 16091364.70 16091364.82 16091364.98 0.0074 0.0053

Pluto 39344-10-19 10:19 G 16091452.89 16091452.93 16091453.00 0.0074 0.0072

Jupiter 39346-02-22 18:14 G 16091944.14 16091944.26 16091944.39 0.0519 0.0042

Saturn 39347-03-30 18:29 G 16092345.18 16092345.27 16092345.39 0.0282 0.0236

Saturn 39347-06-27 18:58 G 16092434.10 16092434.29 16092434.48 0.0283 0.0032

Saturn 39347-09-24 18:58 G 16092523.15 16092523.29 16092523.44 0.0284 0.0173

Moon 39348-07-20 13:41 G 16092822.97 16092823.07 16092823.18 0.2650 0.0188

Earth 39348-07-20 14:24 G 16092822.99 16092823.10 16092823.21 0.2652 0.0208 *

Earth 39352-01-19 03:22 G 16094100.50 16094100.64 16094100.79 0.2680 0.1296

Moon 39352-01-19 03:50 G 16094100.52 16094100.66 16094100.81 0.2672 0.1349 *

Jupiter 39352-04-18 18:00 G 16094191.07 16094191.25 16094191.43 0.0507 0.0110

Mars 39353-05-16 22:05 G 16094584.31 16094584.42 16094584.52 0.1932 0.0867

Uranus 39354-02-04 05:31 G 16094847.69 16094847.73 16094847.78 0.0142 0.0132

Uranus 39354-05-03 09:07 G 16094935.80 16094935.88 16094935.96 0.0143 0.0111

Uranus 39354-07-30 12:29 G 16095023.93 16095024.02 16095024.13 0.0143 0.0091

Uranus 39354-10-26 16:05 G 16095112.06 16095112.17 16095112.29 0.0143 0.0069

Uranus 39355-01-22 19:41 G 16095200.19 16095200.32 16095200.44 0.0143 0.0048

Uranus 39355-04-20 23:17 G 16095288.34 16095288.47 16095288.60 0.0143 0.0027

Uranus 39355-07-18 02:38 G 16095376.48 16095376.61 16095376.75 0.0143 0.0007

Uranus 39355-10-14 06:14 G 16095464.63 16095464.76 16095464.89 0.0143 0.0016

Uranus 39356-01-10 09:50 G 16095552.78 16095552.91 16095553.04 0.0143 0.0038

Uranus 39356-04-07 13:26 G 16095640.94 16095641.06 16095641.18 0.0143 0.0060

Uranus 39356-07-04 17:02 G 16095729.11 16095729.21 16095729.32 0.0143 0.0082

Uranus 39356-09-30 20:38 G 16095817.27 16095817.36 16095817.46 0.0143 0.0104

Uranus 39356-12-28 00:14 G 16095905.46 16095905.51 16095905.58 0.0143 0.0126

Jupiter 39357-12-11 23:17 G 16096254.34 16096254.47 16096254.59 0.0519 0.0105

Jupiter 39358-03-11 03:36 G 16096343.61 16096343.65 16096343.69 0.0517 0.0483

Saturn 39360-05-10 12:14 G 16097134.92 16097135.01 16097135.10 0.0281 0.0201

Saturn 39360-08-06 23:02 G 16097223.33 16097223.46 16097223.58 0.0280 0.0066

Saturn 39360-11-03 09:50 G 16097311.78 16097311.91 16097312.04 0.0279 0.0067

Saturn 39361-01-30 20:24 G 16097400.27 16097400.35 16097400.45 0.0278 0.0200

Moon 39361-07-23 06:58 G 16097573.70 16097573.79 16097573.88 0.2656 0.1346

Earth 39361-07-23 07:26 G 16097573.72 16097573.81 16097573.90 0.2651 0.1468 *

Mars 39362-10-07 06:14 G 16098014.65 16098014.76 16098014.87 0.1935 0.0535

Jupiter 39364-02-05 13:12 G 16098500.86 16098501.05 16098501.23 0.0507 0.0118

Moon 39365-01-21 12:43 G 16098851.92 16098852.03 16098852.14 0.2674 0.1948

Earth 39365-01-21 13:26 G 16098851.95 16098852.06 16098852.17 0.2680 0.1947 *

Moon 39368-07-16 09:22 G 16100123.82 16100123.89 16100123.95 0.2646 0.2041

Earth 39368-07-16 09:07 G 16100123.82 16100123.88 16100123.95 0.2653 0.2035 *

Mars 39369-05-27 06:58 G 16100438.63 16100438.79 16100438.95 0.1602 0.0354

Jupiter 39369-09-30 03:50 G 16100564.55 16100564.66 16100564.77 0.0519 0.0249

Jupiter 39369-12-28 08:10 G 16100653.75 16100653.84 16100653.94 0.0517 0.0339

Venus 39373-05-15 12:14 G 16101887.99 16101888.01 16101888.04 0.3689 0.3568

Jupiter 39375-11-24 09:36 G 16102810.76 16102810.90 16102811.04 0.0507 0.0327

Saturn 39376-11-13 18:29 G 16103166.09 16103166.27 16103166.45 0.0282 0.0079

Saturn 39377-02-10 18:29 G 16103255.10 16103255.27 16103255.44 0.0283 0.0125

Mars 39378-10-17 09:07 G 16103868.75 16103868.88 16103869.01 0.1600 0.0964

Venus 39378-11-29 04:05 G 16103911.58 16103911.67 16103911.77 0.3688 0.1591

Moon 39381-07-19 01:41 G 16104874.47 16104874.57 16104874.67 0.2647 0.0819

Earth 39381-07-19 02:10 G 16104874.49 16104874.59 16104874.69 0.2652 0.0788 *

Jupiter 39381-07-19 07:55 G 16104874.76 16104874.83 16104874.91 0.0520 0.0405

Jupiter 39381-10-16 12:14 G 16104963.89 16104964.01 16104964.13 0.0518 0.0182

Venus 39384-06-13 20:10 G 16105935.23 16105935.34 16105935.44 0.3687 0.0446

Jupiter 39387-12-11 19:26 G 16107211.17 16107211.31 16107211.45 0.0508 0.0319

Saturn 39389-09-27 15:07 G 16107867.06 16107867.13 16107867.20 0.0282 0.0235

Saturn 39389-12-25 01:55 G 16107955.46 16107955.58 16107955.71 0.0281 0.0100

Venus 39389-12-28 12:00 G 16107958.93 16107959.00 16107959.08 0.3687 0.2475

Saturn 39390-03-23 12:43 G 16108043.90 16108044.03 16108044.16 0.0280 0.0036

Saturn 39390-06-19 23:31 G 16108132.38 16108132.48 16108132.59 0.0278 0.0167

Mars 39392-11-14 22:05 G 16109011.32 16109011.42 16109011.52 0.1931 0.1044

Jupiter 39393-08-04 16:34 G 16109274.07 16109274.19 16109274.32 0.0518 0.0036

Moon 39394-07-21 18:29 G 16109625.16 16109625.27 16109625.38 0.2652 0.0319

Earth 39394-07-21 19:12 G 16109625.19 16109625.30 16109625.40 0.2652 0.0470 *

Uranus 39394-12-07 00:58 G 16109763.46 16109763.54 16109763.65 0.0136 0.0117

Uranus 39395-03-05 08:24 G 16109851.72 16109851.85 16109852.01 0.0136 0.0090

Uranus 39395-06-01 16:05 G 16109940.00 16109940.17 16109940.34 0.0135 0.0063

Uranus 39395-08-28 23:17 G 16110028.29 16110028.47 16110028.66 0.0135 0.0036

Uranus 39395-11-25 06:43 G 16110116.59 16110116.78 16110116.97 0.0135 0.0009

Uranus 39396-02-21 13:55 G 16110204.89 16110205.08 16110205.27 0.0135 0.0017

Uranus 39396-05-19 21:07 G 16110293.20 16110293.38 16110293.56 0.0135 0.0043

Uranus 39396-08-16 04:05 G 16110381.51 16110381.67 16110381.84 0.0135 0.0069

Uranus 39396-11-12 11:17 G 16110469.84 16110469.97 16110470.11 0.0135 0.0095

Uranus 39397-02-08 18:14 G 16110558.19 16110558.26 16110558.35 0.0135 0.0121

Earth 39398-01-19 10:34 G 16110902.78 16110902.94 16110903.09 0.2680 0.0703

Moon 39398-01-19 10:48 G 16110902.78 16110902.95 16110903.11 0.2673 0.0556 *

Venus 39399-07-11 13:26 G 16111440.92 16111441.06 16111441.21 0.3683 0.0782

Jupiter 39399-09-29 15:22 G 16111520.96 16111521.14 16111521.32 0.0507 0.0102

Mars 39402-04-08 06:00 G 16112441.64 16112441.75 16112441.87 0.1935 0.0401

Jupiter 39405-05-24 21:07 G 16113584.26 16113584.38 16113584.51 0.0519 0.0116

Jupiter 39405-08-22 01:41 G 16113673.52 16113673.57 16113673.62 0.0517 0.0474

Saturn 39406-04-03 18:00 G 16113898.09 16113898.25 16113898.42 0.0282 0.0127

Saturn 39406-07-01 18:14 G 16113987.08 16113987.26 16113987.44 0.0283 0.0078

Saturn 39406-09-28 18:14 G 16114076.24 16114076.26 16114076.28 0.0285 0.0283

Moon 39407-07-25 11:31 G 16114375.90 16114375.98 16114376.07 0.2656 0.1713

Earth 39407-07-25 12:14 G 16114375.93 16114376.01 16114376.09 0.2651 0.1720 *

Mars 39408-11-26 07:41 G 16114865.66 16114865.82 16114865.97 0.1602 0.0560

Moon 39411-01-23 19:26 G 16115654.22 16115654.31 16115654.39 0.2675 0.2293

Earth 39411-01-23 20:24 G 16115654.31 16115654.35 16115654.40 0.2680 0.2549 *

Jupiter 39411-07-19 11:17 G 16115830.79 16115830.97 16115831.15 0.0507 0.0114

Mars 39411-08-29 14:10 G 16115872.06 16115872.09 16115872.13 0.1938 0.1815

Moon 39414-07-18 13:41 G 16116926.00 16116926.07 16116926.15 0.2646 0.1799

Earth 39414-07-18 13:55 G 16116926.00 16116926.08 16116926.16 0.2652 0.1784 *

Jupiter 39417-03-13 02:10 G 16117894.48 16117894.59 16117894.70 0.0519 0.0256

Jupiter 39417-06-10 06:29 G 16117983.67 16117983.77 16117983.87 0.0518 0.0332

Neptune 39418-01-19 12:43 G 16118207.00 16118207.03 16118207.10 0.0089 0.0086

Neptune 39418-04-17 16:19 G 16118295.10 16118295.18 16118295.31 0.0089 0.0075

Mars 39418-04-18 09:36 G 16118295.76 16118295.90 16118296.05 0.1600 0.0760

Neptune 39418-07-14 20:10 G 16118383.22 16118383.34 16118383.49 0.0089 0.0064

Neptune 39418-10-10 23:46 G 16118471.35 16118471.49 16118471.66 0.0089 0.0053

Neptune 39419-01-07 03:22 G 16118559.49 16118559.64 16118559.83 0.0089 0.0042

Saturn 39419-02-15 18:00 G 16118599.22 16118599.25 16118599.29 0.0282 0.0269

Neptune 39419-04-05 07:12 G 16118647.63 16118647.80 16118647.99 0.0089 0.0031

Saturn 39419-05-15 04:48 G 16118687.59 16118687.70 16118687.82 0.0281 0.0134

Neptune 39419-07-02 10:48 G 16118735.77 16118735.95 16118736.15 0.0089 0.0020

Saturn 39419-08-11 15:36 G 16118776.02 16118776.15 16118776.29 0.0280 0.0010

Neptune 39419-09-28 14:38 G 16118823.92 16118824.11 16118824.31 0.0089 0.0009

Saturn 39419-11-08 02:24 G 16118864.49 16118864.60 16118864.72 0.0279 0.0134

Neptune 39419-12-25 18:14 G 16118912.07 16118912.26 16118912.46 0.0089 0.0004

Saturn 39420-02-04 13:12 G 16118953.02 16118953.05 16118953.09 0.0277 0.0265

Neptune 39420-03-22 21:50 G 16119000.22 16119000.41 16119000.61 0.0089 0.0014

Neptune 39420-06-19 01:26 G 16119088.38 16119088.56 16119088.75 0.0089 0.0025

Neptune 39420-09-15 04:48 G 16119176.54 16119176.70 16119176.89 0.0089 0.0036

Neptune 39420-12-12 08:24 G 16119264.70 16119264.85 16119265.03 0.0089 0.0047

Neptune 39421-03-10 12:29 G 16119352.87 16119353.02 16119353.16 0.0089 0.0057

Neptune 39421-06-06 15:50 G 16119441.04 16119441.16 16119441.29 0.0089 0.0068

Neptune 39421-09-02 19:12 G 16119529.23 16119529.30 16119529.40 0.0089 0.0079

Jupiter 39423-05-07 06:14 G 16120140.62 16120140.76 16120140.90 0.0506 0.0344

Jupiter 39423-08-05 19:26 G 16120231.30 16120231.31 16120231.31 0.0508 0.0508

Moon 39427-07-21 06:14 G 16121676.66 16121676.76 16121676.87 0.2647 0.0644

Earth 39427-07-21 06:43 G 16121676.68 16121676.78 16121676.89 0.2652 0.0549 *

Jupiter 39428-12-30 06:43 G 16122204.70 16122204.78 16122204.86 0.0520 0.0401

Jupiter 39429-03-29 11:02 G 16122293.84 16122293.96 16122294.08 0.0518 0.0187

Venus 39429-12-21 09:50 G 16122560.84 16122560.91 16122560.97 0.3688 0.2862

Mars 39432-05-16 22:05 G 16123438.33 16123438.42 16123438.51 0.1931 0.1204

Jupiter 39435-05-24 15:50 G 16124541.01 16124541.16 16124541.31 0.0508 0.0299

Venus 39435-07-07 01:41 G 16124584.47 16124584.57 16124584.67 0.3688 0.0870

Saturn 39435-08-21 18:00 G 16124630.11 16124630.25 16124630.41 0.0281 0.0169

Saturn 39435-11-18 18:29 G 16124719.08 16124719.27 16124719.45 0.0283 0.0036

Saturn 39436-02-15 18:29 G 16124808.17 16124808.27 16124808.37 0.0284 0.0240

Uranus 39438-02-25 12:14 G 16125548.96 16125549.01 16125549.06 0.0142 0.0131

Uranus 39438-05-24 15:36 G 16125637.07 16125637.15 16125637.24 0.0143 0.0110

Uranus 39438-08-20 19:12 G 16125725.20 16125725.30 16125725.40 0.0143 0.0089

Uranus 39438-11-16 22:34 G 16125813.33 16125813.44 16125813.56 0.0143 0.0068

Uranus 39439-02-13 02:10 G 16125901.47 16125901.59 16125901.72 0.0143 0.0047

Uranus 39439-05-12 05:46 G 16125989.61 16125989.74 16125989.87 0.0143 0.0025

Uranus 39439-08-08 09:22 G 16126077.76 16126077.89 16126078.02 0.0143 0.0004

Uranus 39439-11-04 12:58 G 16126165.91 16126166.04 16126166.17 0.0143 0.0018

Uranus 39440-01-31 16:19 G 16126254.06 16126254.18 16126254.31 0.0143 0.0040

Uranus 39440-04-28 19:55 G 16126342.22 16126342.33 16126342.46 0.0143 0.0062

Moon 39440-07-22 23:17 G 16126427.36 16126427.47 16126427.57 0.2654 0.0678

Earth 39440-07-22 23:46 G 16126427.39 16126427.49 16126427.60 0.2652 0.0720 *

Uranus 39440-07-25 23:31 G 16126430.38 16126430.48 16126430.59 0.0143 0.0083

Uranus 39440-10-22 03:07 G 16126518.55 16126518.63 16126518.73 0.0143 0.0106

Jupiter 39441-01-15 15:07 G 16126604.00 16126604.13 16126604.25 0.0518 0.0030

Uranus 39441-01-18 06:58 G 16126606.73 16126606.79 16126606.85 0.0143 0.0127

Venus 39441-01-19 17:31 G 16126608.13 16126608.23 16126608.33 0.3687 0.1159

Mars 39441-10-07 06:14 G 16126868.64 16126868.76 16126868.87 0.1935 0.0239

Earth 39444-01-21 17:31 G 16127705.06 16127705.23 16127705.39 0.2680 0.0095

Moon 39444-01-21 17:31 G 16127705.07 16127705.23 16127705.40 0.2673 0.0168 *

Venus 39446-08-05 09:36 G 16128631.86 16128631.90 16128631.95 0.3687 0.3228

Jupiter 39447-03-12 12:43 G 16128850.84 16128851.03 16128851.21 0.0507 0.0094

Mars 39448-05-27 08:24 G 16129292.70 16129292.85 16129292.99 0.1602 0.0774

Saturn 39448-10-01 08:10 G 16129419.74 16129419.84 16129419.95 0.0281 0.0164

Saturn 39448-12-28 18:58 G 16129508.16 16129508.29 16129508.42 0.0280 0.0030

Saturn 39449-03-27 05:46 G 16129596.62 16129596.74 16129596.86 0.0279 0.0104

Saturn 39449-06-23 16:34 G 16129685.12 16129685.19 16129685.26 0.0278 0.0236

Venus 39450-08-02 08:10 G 16130089.76 16130089.84 16130089.92 0.3683 0.3047

Mars 39451-02-27 14:10 G 16130299.03 16130299.09 16130299.15 0.1938 0.1655

Jupiter 39452-11-03 19:26 G 16130914.19 16130914.31 16130914.43 0.0519 0.0123

Jupiter 39453-01-31 23:46 G 16131003.44 16131003.49 16131003.54 0.0517 0.0465

Moon 39453-07-25 16:34 G 16131178.11 16131178.19 16131178.26 0.2656 0.1865

Earth 39453-07-25 16:48 G 16131178.13 16131178.20 16131178.27 0.2651 0.1975 *

Venus 39456-02-16 15:07 G 16132114.02 16132114.13 16132114.23 0.3683 0.2624

Mars 39457-10-17 10:19 G 16132722.77 16132722.93 16132723.09 0.1600 0.0553

Jupiter 39458-12-29 08:24 G 16133160.67 16133160.85 16133161.03 0.0507 0.0125

Moon 39460-07-18 18:14 G 16133728.18 16133728.26 16133728.35 0.2646 0.1542

Earth 39460-07-18 18:29 G 16133728.19 16133728.27 16133728.36 0.2652 0.1538 *

Jupiter 39464-08-22 23:46 G 16135224.39 16135224.49 16135224.60 0.0520 0.0273

Jupiter 39464-11-20 04:19 G 16135313.58 16135313.68 16135313.78 0.0518 0.0317

Saturn 39465-01-07 18:14 G 16135362.14 16135362.26 16135362.39 0.0282 0.0212

Saturn 39465-04-06 18:29 G 16135451.08 16135451.27 16135451.46 0.0283 0.0010

Saturn 39465-07-04 18:29 G 16135540.14 16135540.27 16135540.41 0.0284 0.0197

Jupiter 39470-10-17 04:19 G 16137470.54 16137470.68 16137470.81 0.0506 0.0343

Jupiter 39471-01-15 17:17 G 16137561.22 16137561.22 16137561.23 0.0508 0.0507

Mars 39471-11-15 22:05 G 16137865.34 16137865.42 16137865.50 0.1931 0.1359

Moon 39473-07-21 11:02 G 16138478.85 16138478.96 16138479.07 0.2648 0.0351

Earth 39473-07-21 11:31 G 16138478.87 16138478.98 16138479.09 0.2652 0.0286 *

Jupiter 39476-06-11 04:48 G 16139534.62 16139534.70 16139534.77 0.0520 0.0413

Jupiter 39476-09-08 09:07 G 16139623.76 16139623.88 16139624.00 0.0518 0.0176

Moon 39477-01-18 15:22 G 16139756.10 16139756.14 16139756.17 0.2673 0.2609

Saturn 39478-02-18 11:17 G 16140151.88 16140151.97 16140152.06 0.0281 0.0195

Saturn 39478-05-17 22:05 G 16140240.29 16140240.42 16140240.55 0.0280 0.0061

Saturn 39478-08-14 08:53 G 16140328.75 16140328.87 16140329.00 0.0279 0.0073

Saturn 39478-11-10 19:41 G 16140417.23 16140417.32 16140417.41 0.0278 0.0206

Uranus 39478-12-28 07:41 G 16140464.72 16140464.82 16140464.93 0.0136 0.0112

Uranus 39479-03-26 14:53 G 16140552.98 16140553.12 16140553.28 0.0136 0.0085

Uranus 39479-06-22 22:19 G 16140641.26 16140641.43 16140641.61 0.0135 0.0058

Uranus 39479-09-19 05:46 G 16140729.55 16140729.74 16140729.93 0.0135 0.0032

Uranus 39479-12-16 13:12 G 16140817.85 16140818.05 16140818.24 0.0135 0.0006

Uranus 39480-03-13 20:24 G 16140906.16 16140906.35 16140906.54 0.0135 0.0022

Uranus 39480-06-10 03:22 G 16140994.47 16140994.64 16140994.83 0.0135 0.0048

Uranus 39480-09-06 10:34 G 16141082.79 16141082.94 16141083.11 0.0135 0.0074

Uranus 39480-12-03 17:31 G 16141171.12 16141171.23 16141171.37 0.0135 0.0100

Uranus 39481-03-02 00:58 G 16141259.47 16141259.54 16141259.61 0.0135 0.0125

Mars 39481-04-07 06:14 G 16141295.64 16141295.76 16141295.87 0.1935 0.0086

Jupiter 39482-11-03 12:29 G 16141870.86 16141871.02 16141871.17 0.0508 0.0279

Moon 39486-07-24 03:50 G 16143229.56 16143229.66 16143229.77 0.2654 0.0848

Earth 39486-07-24 04:34 G 16143229.59 16143229.69 16143229.79 0.2651 0.0969 *

Venus 39486-07-28 07:12 G 16143233.72 16143233.80 16143233.89 0.3688 0.2153

Mars 39487-11-26 09:07 G 16143719.74 16143719.88 16143720.01 0.1602 0.0984

Jupiter 39488-06-27 13:41 G 16143933.94 16143934.07 16143934.20 0.0518 0.0030

Moon 39490-01-22 00:14 G 16144507.34 16144507.51 16144507.67 0.2674 0.0492

Earth 39490-01-22 00:29 G 16144507.36 16144507.52 16144507.68 0.2680 0.0506 *

Mars 39490-08-28 14:10 G 16144726.02 16144726.09 16144726.16 0.1938 0.1494

Venus 39492-02-10 23:17 G 16145257.36 16145257.47 16145257.57 0.3687 0.0200

Earth 39493-07-17 06:29 G 16145779.74 16145779.77 16145779.80 0.2653 0.2523

Moon 39493-07-17 06:43 G 16145779.74 16145779.78 16145779.82 0.2647 0.2433 *

Saturn 39494-05-27 18:29 G 16146094.20 16146094.27 16146094.36 0.0281 0.0253

Jupiter 39494-08-22 08:38 G 16146180.68 16146180.86 16146181.05 0.0507 0.0070

Saturn 39494-08-24 18:43 G 16146183.10 16146183.28 16146183.47 0.0282 0.0050

Saturn 39494-11-21 18:43 G 16146272.13 16146272.28 16146272.44 0.0283 0.0155

Mars 39497-04-17 11:02 G 16147149.80 16147149.96 16147150.13 0.1600 0.0339

Venus 39497-08-26 15:07 G 16147281.04 16147281.13 16147281.22 0.3687 0.1898

Neptune 39498-05-13 03:50 G 16147540.65 16147540.66 16147540.70 0.0089 0.0087

Neptune 39498-08-09 05:31 G 16147628.67 16147628.73 16147628.79 0.0089 0.0079

Neptune 39498-11-05 06:29 G 16147716.71 16147716.77 16147716.86 0.0089 0.0072

Neptune 39499-02-01 07:41 G 16147804.75 16147804.82 16147804.92 0.0089 0.0065

Neptune 39499-04-30 09:22 G 16147892.79 16147892.89 16147892.99 0.0089 0.0057

Moon 39499-07-26 21:22 G 16147980.33 16147980.39 16147980.44 0.2657 0.2243

Earth 39499-07-26 21:36 G 16147980.34 16147980.40 16147980.46 0.2651 0.2226 *

Neptune 39499-07-27 10:34 G 16147980.83 16147980.94 16147981.05 0.0089 0.0050

Neptune 39499-10-23 11:46 G 16148068.88 16148068.99 16148069.11 0.0089 0.0042

Neptune 39500-01-19 13:12 G 16148156.93 16148157.05 16148157.17 0.0089 0.0035

Jupiter 39500-04-16 17:31 G 16148244.11 16148244.23 16148244.36 0.0519 0.0130

Neptune 39500-04-17 14:24 G 16148244.98 16148245.10 16148245.23 0.0089 0.0027

Neptune 39500-07-14 15:50 G 16148333.03 16148333.16 16148333.29 0.0089 0.0020

Jupiter 39500-07-14 22:05 G 16148333.36 16148333.42 16148333.47 0.0517 0.0458

Neptune 39500-10-10 17:02 G 16148421.08 16148421.21 16148421.34 0.0089 0.0013

Neptune 39501-01-06 18:14 G 16148509.13 16148509.26 16148509.40 0.0089 0.0006

Neptune 39501-04-04 19:41 G 16148597.19 16148597.32 16148597.45 0.0089 0.0002

Neptune 39501-07-01 20:53 G 16148685.24 16148685.37 16148685.50 0.0089 0.0010

Neptune 39501-09-27 22:05 G 16148773.30 16148773.42 16148773.56 0.0089 0.0018

Neptune 39501-12-24 23:31 G 16148861.35 16148861.48 16148861.61 0.0089 0.0025

Neptune 39502-03-23 00:43 G 16148949.41 16148949.53 16148949.66 0.0089 0.0032

Neptune 39502-06-19 02:10 G 16149037.47 16149037.59 16149037.71 0.0089 0.0040

Neptune 39502-09-15 03:22 G 16149125.53 16149125.64 16149125.76 0.0089 0.0047

Neptune 39502-12-12 04:34 G 16149213.60 16149213.69 16149213.80 0.0089 0.0055

Neptune 39503-03-10 06:14 G 16149301.66 16149301.76 16149301.85 0.0088 0.0062

Neptune 39503-06-06 07:12 G 16149389.73 16149389.80 16149389.89 0.0088 0.0070

Neptune 39503-09-02 08:38 G 16149477.80 16149477.86 16149477.93 0.0088 0.0077

Pluto 39503-11-22 04:05 G 16149558.62 16149558.67 16149558.75 0.0069 0.0061

Neptune 39503-11-29 09:50 G 16149565.88 16149565.91 16149565.96 0.0088 0.0085

Pluto 39504-02-18 05:02 G 16149646.62 16149646.71 16149646.80 0.0069 0.0050

Pluto 39504-05-16 05:17 G 16149734.62 16149734.72 16149734.84 0.0069 0.0040

Pluto 39504-08-12 05:46 G 16149822.63 16149822.74 16149822.87 0.0069 0.0031

Pluto 39504-11-08 06:29 G 16149910.65 16149910.77 16149910.90 0.0069 0.0020

Pluto 39505-02-04 07:12 G 16149998.67 16149998.80 16149998.93 0.0069 0.0009

Pluto 39505-05-03 07:41 G 16150086.69 16150086.82 16150086.95 0.0069 0.0001

Pluto 39505-07-30 08:10 G 16150174.71 16150174.84 16150174.97 0.0070 0.0012

Pluto 39505-10-26 08:38 G 16150262.74 16150262.86 16150262.99 0.0070 0.0022

Pluto 39506-01-22 09:07 G 16150350.77 16150350.88 16150351.00 0.0070 0.0033

Pluto 39506-04-20 09:50 G 16150438.81 16150438.91 16150439.01 0.0070 0.0043

Jupiter 39506-06-11 05:31 G 16150490.55 16150490.73 16150490.91 0.0507 0.0138

Pluto 39506-07-17 10:05 G 16150526.85 16150526.92 16150527.02 0.0070 0.0054

Moon 39506-07-20 23:02 G 16150530.37 16150530.46 16150530.55 0.2646 0.1358

Earth 39506-07-20 23:17 G 16150530.38 16150530.47 16150530.56 0.2652 0.1280 *

Pluto 39506-10-13 10:34 G 16150614.91 16150614.94 16150615.01 0.0070 0.0065

Venus 39507-03-10 09:50 G 16150762.77 16150762.91 16150763.05 0.3683 0.1126

Saturn 39507-07-09 14:53 G 16150884.04 16150884.12 16150884.20 0.0282 0.0223

Saturn 39507-10-06 01:41 G 16150972.45 16150972.57 16150972.69 0.0281 0.0088

Saturn 39508-01-02 12:29 G 16151060.89 16151061.02 16151061.15 0.0280 0.0046

Saturn 39508-03-30 23:02 G 16151149.37 16151149.46 16151149.57 0.0278 0.0180

Mars 39511-05-17 21:50 G 16152292.35 16152292.41 16152292.48 0.1931 0.1528

Jupiter 39512-02-03 21:50 G 16152554.31 16152554.41 16152554.52 0.0519 0.0282

Jupiter 39512-05-03 02:10 G 16152643.49 16152643.59 16152643.70 0.0518 0.0308

Jupiter 39518-03-30 01:12 G 16154800.42 16154800.55 16154800.68 0.0506 0.0355

Jupiter 39518-06-28 14:10 G 16154891.06 16154891.09 16154891.14 0.0508 0.0495

Moon 39519-07-23 15:36 G 16155281.05 16155281.15 16155281.26 0.2650 0.0126

Earth 39519-07-23 16:19 G 16155281.07 16155281.18 16155281.29 0.2652 0.0049 *

Mars 39520-10-07 06:00 G 16155722.64 16155722.75 16155722.87 0.1934 0.0096

Uranus 39522-03-18 18:58 G 16156250.24 16156250.29 16156250.35 0.0142 0.0128

Uranus 39522-06-14 22:19 G 16156338.35 16156338.43 16156338.52 0.0142 0.0107

Uranus 39522-09-11 01:55 G 16156426.48 16156426.58 16156426.69 0.0143 0.0086

Uranus 39522-12-08 05:31 G 16156514.61 16156514.73 16156514.85 0.0143 0.0065

Earth 39523-01-20 21:36 G 16156558.30 16156558.40 16156558.49 0.2680 0.2153

Moon 39523-01-20 22:19 G 16156558.33 16156558.43 16156558.53 0.2673 0.2091 *

Uranus 39523-03-06 08:53 G 16156602.75 16156602.87 16156603.00 0.0143 0.0044

Uranus 39523-06-02 12:29 G 16156690.89 16156691.02 16156691.15 0.0143 0.0023

Uranus 39523-08-29 16:05 G 16156779.04 16156779.17 16156779.30 0.0143 0.0001

Jupiter 39523-11-23 02:24 G 16156864.53 16156864.60 16156864.67 0.0520 0.0431

Uranus 39523-11-25 19:41 G 16156867.19 16156867.32 16156867.45 0.0143 0.0021

Saturn 39524-01-12 19:12 G 16156915.12 16156915.30 16156915.48 0.0282 0.0091

Jupiter 39524-02-20 06:43 G 16156953.66 16156953.78 16156953.90 0.0518 0.0158

Uranus 39524-02-21 23:17 G 16156955.34 16156955.47 16156955.60 0.0143 0.0042

Saturn 39524-04-10 19:26 G 16157004.14 16157004.31 16157004.48 0.0284 0.0114

Uranus 39524-05-20 02:38 G 16157043.50 16157043.61 16157043.74 0.0143 0.0065

Uranus 39524-08-16 06:14 G 16157131.66 16157131.76 16157131.87 0.0143 0.0086

Uranus 39524-11-12 09:50 G 16157219.83 16157219.91 16157220.01 0.0143 0.0108

Uranus 39525-02-08 13:26 G 16157308.02 16157308.06 16157308.13 0.0143 0.0131

Mars 39527-05-28 09:36 G 16158146.79 16158146.90 16158147.01 0.1602 0.1183

Mars 39530-02-27 14:10 G 16159153.01 16159153.09 16159153.17 0.1938 0.1340

Jupiter 39530-04-16 10:05 G 16159200.77 16159200.92 16159201.08 0.0507 0.0278

Moon 39532-07-25 08:38 G 16160031.76 16160031.86 16160031.96 0.2654 0.1161

Earth 39532-07-25 09:22 G 16160031.79 16160031.89 16160031.98 0.2651 0.1224 *

Jupiter 39535-12-09 11:31 G 16161263.85 16161263.98 16161264.11 0.0519 0.0016

Moon 39536-01-24 06:43 G 16161309.63 16161309.78 16161309.94 0.2674 0.1010

Earth 39536-01-24 07:41 G 16161309.67 16161309.82 16161309.97 0.2680 0.1105 *

Mars 39536-10-17 11:46 G 16161576.82 16161576.99 16161577.16 0.1600 0.0131

Saturn 39536-11-25 18:14 G 16161616.20 16161616.26 16161616.31 0.0282 0.0252

Saturn 39537-02-22 05:02 G 16161704.59 16161704.71 16161704.83 0.0280 0.0117

Saturn 39537-05-21 15:50 G 16161793.03 16161793.16 16161793.29 0.0279 0.0018

Saturn 39537-08-18 02:38 G 16161881.50 16161881.61 16161881.72 0.0278 0.0150

Venus 39537-08-19 12:58 G 16161883.01 16161883.04 16161883.08 0.3689 0.3414

Earth 39539-07-19 11:02 G 16162581.91 16162581.96 16162582.02 0.2653 0.2270

Moon 39539-07-19 11:17 G 16162581.92 16162581.97 16162582.02 0.2646 0.2304 *

Jupiter 39542-02-02 05:17 G 16163510.53 16163510.72 16163510.90 0.0507 0.0049

Venus 39543-03-05 04:48 G 16163906.61 16163906.70 16163906.80 0.3688 0.1429

Moon 39545-07-28 02:10 G 16164782.55 16164782.59 16164782.63 0.2658 0.2430

Earth 39545-07-28 02:10 G 16164782.56 16164782.59 16164782.63 0.2651 0.2482 *

Mars 39546-03-09 13:41 G 16165007.00 16165007.07 16165007.14 0.1598 0.1453

Jupiter 39547-09-27 16:05 G 16165574.05 16165574.17 16165574.30 0.0519 0.0131

Jupiter 39547-12-25 20:38 G 16165663.30 16165663.36 16165663.41 0.0517 0.0459

Venus 39548-09-17 20:38 G 16165930.26 16165930.36 16165930.47 0.3687 0.0597

Mars 39550-11-15 22:05 G 16166719.37 16166719.42 16166719.47 0.1931 0.1696

Moon 39552-07-21 03:36 G 16167332.55 16167332.65 16167332.75 0.2646 0.1027

Earth 39552-07-21 04:05 G 16167332.57 16167332.67 16167332.77 0.2652 0.1028 *

Saturn 39553-05-31 19:12 G 16167647.14 16167647.30 16167647.47 0.0282 0.0135

Saturn 39553-08-28 19:26 G 16167736.13 16167736.31 16167736.49 0.0283 0.0070

Jupiter 39553-11-21 01:26 G 16167820.39 16167820.56 16167820.74 0.0507 0.0163

Saturn 39553-11-25 19:12 G 16167825.27 16167825.30 16167825.36 0.0284 0.0277

Venus 39554-04-03 12:43 G 16167953.96 16167954.03 16167954.10 0.3687 0.2650

Jupiter 39559-07-16 20:10 G 16169884.24 16169884.34 16169884.44 0.0519 0.0289

Jupiter 39559-10-14 00:29 G 16169973.42 16169973.52 16169973.62 0.0518 0.0299

Mars 39560-04-07 06:00 G 16170149.64 16170149.75 16170149.86 0.1935 0.0250

Uranus 39563-01-18 13:41 G 16171165.96 16171166.07 16171166.19 0.0136 0.0109

Uranus 39563-04-16 21:07 G 16171254.23 16171254.38 16171254.54 0.0136 0.0082

Uranus 39563-07-14 04:34 G 16171342.52 16171342.69 16171342.87 0.0135 0.0055

Uranus 39563-10-10 11:46 G 16171430.81 16171430.99 16171431.19 0.0135 0.0029

Venus 39563-10-15 11:17 G 16171435.83 16171435.97 16171436.12 0.3683 0.0775

Uranus 39564-01-06 19:12 G 16171519.11 16171519.30 16171519.49 0.0135 0.0002

Uranus 39564-04-04 02:24 G 16171607.42 16171607.60 16171607.79 0.0135 0.0025

Uranus 39564-07-01 09:36 G 16171695.73 16171695.90 16171696.08 0.0135 0.0051

Uranus 39564-09-27 16:48 G 16171784.05 16171784.20 16171784.36 0.0135 0.0077

Uranus 39564-12-25 00:00 G 16171872.38 16171872.50 16171872.62 0.0135 0.0103

Uranus 39565-03-23 06:58 G 16171960.74 16171960.79 16171960.85 0.0135 0.0129

Moon 39565-07-23 20:24 G 16172083.24 16172083.35 16172083.46 0.2652 0.0101

Earth 39565-07-23 21:07 G 16172083.27 16172083.38 16172083.48 0.2652 0.0243 *

Jupiter 39565-09-08 22:05 G 16172130.30 16172130.42 16172130.55 0.0506 0.0368

Jupiter 39565-12-08 11:17 G 16172220.92 16172220.97 16172221.03 0.0508 0.0483

Saturn 39566-04-14 21:50 G 16172348.40 16172348.41 16172348.42 0.0282 0.0281

Saturn 39566-07-12 08:24 G 16172436.75 16172436.85 16172436.97 0.0281 0.0146

Saturn 39566-10-08 19:12 G 16172525.17 16172525.30 16172525.43 0.0280 0.0014

Mars 39566-11-26 10:19 G 16172573.85 16172573.93 16172574.01 0.1603 0.1402

Saturn 39567-01-05 06:00 G 16172613.64 16172613.75 16172613.87 0.0279 0.0123

Saturn 39567-04-03 16:48 G 16172702.15 16172702.20 16172702.25 0.0278 0.0255

Earth 39569-01-21 04:34 G 16173360.56 16173360.69 16173360.82 0.2680 0.1553

Moon 39569-01-21 05:02 G 16173360.57 16173360.71 16173360.85 0.2673 0.1414 *

Mars 39569-08-28 14:10 G 16173580.00 16173580.09 16173580.18 0.1937 0.1171

Jupiter 39571-05-05 00:29 G 16174194.46 16174194.52 16174194.59 0.0520 0.0440

Jupiter 39571-08-02 04:48 G 16174283.58 16174283.70 16174283.82 0.0518 0.0148

Mars 39576-04-17 12:14 G 16176003.85 16176004.01 16176004.18 0.1600 0.0082

Jupiter 39577-09-26 07:26 G 16176530.65 16176530.81 16176530.96 0.0507 0.0267

Moon 39578-07-26 13:26 G 16176833.97 16176834.06 16176834.15 0.2655 0.1391

Earth 39578-07-26 13:55 G 16176834.00 16176834.08 16176834.17 0.2651 0.1477 *

Moon 39582-01-24 13:41 G 16178111.94 16178112.07 16178112.21 0.2674 0.1562

Earth 39582-01-24 14:38 G 16178111.99 16178112.11 16178112.24 0.2680 0.1707 *

Neptune 39582-10-17 11:46 G 16178377.93 16178377.99 16178378.09 0.0089 0.0080

Saturn 39582-10-18 19:12 G 16178379.16 16178379.30 16178379.46 0.0282 0.0179

Neptune 39583-01-13 15:36 G 16178466.04 16178466.15 16178466.28 0.0089 0.0069

Saturn 39583-01-15 19:41 G 16178468.13 16178468.32 16178468.51 0.0283 0.0027

Neptune 39583-04-11 19:12 G 16178554.17 16178554.30 16178554.46 0.0089 0.0058

Saturn 39583-04-14 19:41 G 16178557.22 16178557.32 16178557.43 0.0284 0.0232

Jupiter 39583-05-21 09:07 G 16178593.76 16178593.88 16178594.01 0.0519 0.0013

Neptune 39583-07-08 22:48 G 16178642.30 16178642.45 16178642.63 0.0089 0.0047

Neptune 39583-10-05 02:38 G 16178730.44 16178730.61 16178730.80 0.0089 0.0036

Neptune 39584-01-01 06:14 G 16178818.58 16178818.76 16178818.96 0.0089 0.0025

Neptune 39584-03-29 10:05 G 16178906.73 16178906.92 16178907.12 0.0089 0.0014

Neptune 39584-06-25 13:41 G 16178994.88 16178995.07 16178995.27 0.0089 0.0003

Neptune 39584-09-21 17:17 G 16179083.03 16179083.22 16179083.42 0.0089 0.0009

Neptune 39584-12-18 20:53 G 16179171.19 16179171.37 16179171.57 0.0089 0.0020

Neptune 39585-03-17 00:14 G 16179259.34 16179259.51 16179259.71 0.0089 0.0031

Neptune 39585-06-13 03:50 G 16179347.50 16179347.66 16179347.85 0.0089 0.0042

Moon 39585-07-19 15:50 G 16179384.09 16179384.16 16179384.23 0.2646 0.1968

Earth 39585-07-19 15:50 G 16179384.09 16179384.16 16179384.23 0.2652 0.2021 *

Mars 39585-09-07 14:10 G 16179433.99 16179434.09 16179434.20 0.1598 0.1252

Neptune 39585-09-09 07:41 G 16179435.67 16179435.82 16179435.98 0.0089 0.0052

Neptune 39585-12-06 11:17 G 16179523.84 16179523.97 16179524.11 0.0089 0.0063

Neptune 39586-03-04 14:38 G 16179612.02 16179612.11 16179612.23 0.0089 0.0074

Neptune 39586-05-31 18:14 G 16179700.22 16179700.26 16179700.33 0.0089 0.0085

Jupiter 39589-07-15 03:07 G 16180840.45 16180840.63 16180840.82 0.0507 0.0050

Pluto 39589-12-26 00:58 G 16181004.50 16181004.54 16181004.63 0.0075 0.0071

Pluto 39590-03-24 03:50 G 16181092.53 16181092.66 16181092.82 0.0075 0.0051

Mars 39590-05-16 21:50 G 16181146.38 16181146.41 16181146.44 0.1931 0.1839

Pluto 39590-06-20 06:43 G 16181180.60 16181180.78 16181180.96 0.0075 0.0031

Pluto 39590-09-16 09:07 G 16181268.69 16181268.88 16181269.08 0.0075 0.0012

Pluto 39590-12-13 11:46 G 16181356.80 16181356.99 16181357.19 0.0075 0.0008

Pluto 39591-03-11 14:10 G 16181444.92 16181445.09 16181445.29 0.0075 0.0028

Pluto 39591-06-07 16:48 G 16181533.05 16181533.20 16181533.36 0.0074 0.0047

Pluto 39591-09-03 18:58 G 16181621.22 16181621.29 16181621.40 0.0074 0.0066

Venus 39594-03-26 10:34 G 16182555.87 16182555.94 16182556.01 0.3688 0.2703

Jupiter 39595-03-09 13:55 G 16182903.96 16182904.08 16182904.21 0.0519 0.0146

Jupiter 39595-06-06 18:29 G 16182993.21 16182993.27 16182993.33 0.0518 0.0445

Saturn 39595-11-29 11:46 G 16183168.89 16183168.99 16183169.10 0.0281 0.0174

Saturn 39596-02-25 22:34 G 16183257.32 16183257.44 16183257.57 0.0280 0.0040

Saturn 39596-05-24 09:22 G 16183345.77 16183345.89 16183346.01 0.0279 0.0094

Saturn 39596-08-20 20:10 G 16183434.27 16183434.34 16183434.41 0.0277 0.0226

Moon 39598-07-22 08:24 G 16184134.75 16184134.85 16184134.95 0.2647 0.0888

Earth 39598-07-22 08:38 G 16184134.76 16184134.86 16184134.97 0.2652 0.0782 *

Mars 39599-10-07 06:00 G 16184576.64 16184576.75 16184576.87 0.1934 0.0438

Venus 39599-10-10 02:24 G 16184579.50 16184579.60 16184579.70 0.3688 0.0711

Jupiter 39601-05-02 22:05 G 16185150.25 16185150.42 16185150.60 0.0506 0.0179

Venus 39605-04-24 18:14 G 16186603.16 16186603.26 16186603.36 0.3687 0.1322

Uranus 39606-04-08 02:10 G 16186951.53 16186951.59 16186951.66 0.0142 0.0123

Uranus 39606-07-05 05:31 G 16187039.65 16187039.73 16187039.83 0.0142 0.0103

Uranus 39606-10-01 09:07 G 16187127.78 16187127.88 16187127.99 0.0143 0.0081

Jupiter 39606-12-26 18:43 G 16187214.18 16187214.28 16187214.38 0.0520 0.0289

Uranus 39606-12-28 12:43 G 16187215.91 16187216.03 16187216.15 0.0143 0.0060

Jupiter 39607-03-25 23:02 G 16187303.36 16187303.46 16187303.56 0.0518 0.0301

Uranus 39607-03-26 16:19 G 16187304.05 16187304.18 16187304.30 0.0143 0.0039

Uranus 39607-06-22 19:41 G 16187392.19 16187392.32 16187392.46 0.0143 0.0018

Uranus 39607-09-18 23:17 G 16187480.34 16187480.47 16187480.60 0.0143 0.0004

Uranus 39607-12-16 02:53 G 16187568.49 16187568.62 16187568.75 0.0143 0.0025

Uranus 39608-03-13 06:29 G 16187656.64 16187656.77 16187656.89 0.0143 0.0047

Uranus 39608-06-09 10:05 G 16187744.80 16187744.92 16187745.04 0.0143 0.0069

Uranus 39608-09-05 13:26 G 16187832.97 16187833.06 16187833.17 0.0143 0.0091

Uranus 39608-12-02 17:02 G 16187921.14 16187921.21 16187921.30 0.0143 0.0113

Mars 39609-02-26 13:55 G 16188006.99 16188007.08 16188007.18 0.1937 0.1021

Uranus 39609-02-28 20:38 G 16188009.33 16188009.36 16188009.42 0.0143 0.0136

Venus 39610-11-08 10:19 G 16188626.89 16188626.93 16188626.97 0.3687 0.3399

Moon 39611-07-25 00:58 G 16188885.44 16188885.54 16188885.65 0.2652 0.0436

Earth 39611-07-25 01:41 G 16188885.47 16188885.57 16188885.68 0.2652 0.0482 *

Saturn 39612-03-06 18:43 G 16189111.18 16189111.28 16189111.40 0.0281 0.0227

Saturn 39612-06-03 19:12 G 16189200.11 16189200.30 16189200.49 0.0283 0.0022

Saturn 39612-08-31 19:12 G 16189289.16 16189289.30 16189289.45 0.0284 0.0184

Jupiter 39613-02-18 18:29 G 16189460.15 16189460.27 16189460.39 0.0506 0.0389

Jupiter 39613-05-20 07:41 G 16189550.75 16189550.82 16189550.90 0.0508 0.0462

Venus 39614-11-05 05:46 G 16190084.67 16190084.74 16190084.82 0.3683 0.3109

Moon 39615-01-22 11:46 G 16190162.83 16190162.99 16190163.14 0.2673 0.1040

Earth 39615-01-22 11:31 G 16190162.83 16190162.98 16190163.14 0.2680 0.0946 *

Mars 39615-10-17 13:12 G 16190430.88 16190431.05 16190431.21 0.1600 0.0293

Jupiter 39618-10-14 22:48 G 16191524.38 16191524.45 16191524.51 0.0520 0.0447

Jupiter 39619-01-12 02:53 G 16191613.50 16191613.62 16191613.75 0.0518 0.0142

Venus 39620-05-21 12:58 G 16192108.93 16192109.04 16192109.14 0.3683 0.2634

Moon 39624-07-26 18:14 G 16193636.18 16193636.26 16193636.35 0.2656 0.1658

Earth 39624-07-26 18:43 G 16193636.20 16193636.28 16193636.36 0.2651 0.1731 *

Jupiter 39625-03-08 04:34 G 16193860.53 16193860.69 16193860.85 0.0508 0.0258

Mars 39625-03-08 15:07 G 16193861.00 16193861.13 16193861.25 0.1598 0.1036

Saturn 39625-04-17 15:22 G 16193901.05 16193901.14 16193901.23 0.0282 0.0203

Saturn 39625-07-15 02:10 G 16193989.46 16193989.59 16193989.71 0.0280 0.0068

Saturn 39625-10-11 12:43 G 16194077.91 16194078.03 16194078.16 0.0279 0.0068

Saturn 39626-01-07 23:31 G 16194166.39 16194166.48 16194166.57 0.0278 0.0199

Moon 39628-01-25 20:38 G 16194914.27 16194914.36 16194914.45 0.2674 0.2226

Earth 39628-01-25 21:36 G 16194914.32 16194914.40 16194914.49 0.2680 0.2301 *

Jupiter 39630-10-31 07:26 G 16195923.68 16195923.81 16195923.93 0.0519 0.0015

Moon 39631-07-20 20:24 G 16196186.27 16196186.35 16196186.43 0.2645 0.1826

Earth 39631-07-20 20:24 G 16196186.28 16196186.35 16196186.43 0.2652 0.1773 *

Jupiter 39636-12-25 00:29 G 16198170.34 16198170.52 16198170.71 0.0507 0.0045

Mars 39639-04-07 05:46 G 16199003.64 16199003.74 16199003.85 0.1934 0.0574

Saturn 39641-07-24 18:14 G 16199843.23 16199843.26 16199843.31 0.0281 0.0275

Saturn 39641-10-21 18:43 G 16199932.10 16199932.28 16199932.47 0.0283 0.0070

Saturn 39642-01-18 18:58 G 16200021.13 16200021.29 16200021.46 0.0284 0.0136

Jupiter 39642-08-19 11:46 G 16200233.87 16200233.99 16200234.11 0.0519 0.0160

Jupiter 39642-11-16 16:05 G 16200323.10 16200323.17 16200323.24 0.0518 0.0429

Moon 39644-07-22 12:58 G 16200936.93 16200937.04 16200937.14 0.2649 0.0544

Earth 39644-07-22 13:26 G 16200936.96 16200937.06 16200937.17 0.2652 0.0524 *

Uranus 39646-11-11 12:29 G 16201778.99 16201779.02 16201779.08 0.0136 0.0132

Uranus 39647-02-07 19:55 G 16201867.22 16201867.33 16201867.47 0.0136 0.0105

Uranus 39647-05-07 03:22 G 16201955.50 16201955.64 16201955.81 0.0136 0.0078

Uranus 39647-08-03 10:48 G 16202043.78 16202043.95 16202044.14 0.0135 0.0051

Uranus 39647-10-30 18:29 G 16202132.08 16202132.27 16202132.46 0.0135 0.0023

Uranus 39648-01-27 01:41 G 16202220.38 16202220.57 16202220.76 0.0135 0.0004

Uranus 39648-04-24 08:53 G 16202308.69 16202308.87 16202309.06 0.0135 0.0030

Uranus 39648-07-21 16:05 G 16202397.00 16202397.17 16202397.35 0.0135 0.0056

Mars 39648-08-27 14:10 G 16202433.98 16202434.09 16202434.19 0.1938 0.0855

Jupiter 39648-10-12 20:24 G 16202480.18 16202480.35 16202480.53 0.0506 0.0174

Uranus 39648-10-17 23:17 G 16202485.33 16202485.47 16202485.63 0.0135 0.0082

Uranus 39649-01-14 06:29 G 16202573.66 16202573.77 16202573.89 0.0135 0.0108

Uranus 39649-04-12 13:26 G 16202662.05 16202662.06 16202662.09 0.0135 0.0134

Venus 39650-10-31 07:55 G 16203228.75 16203228.83 16203228.92 0.3688 0.1991

Jupiter 39654-06-07 16:34 G 16204544.09 16204544.19 16204544.29 0.0520 0.0302

Saturn 39654-09-04 18:29 G 16204633.20 16204633.27 16204633.34 0.0281 0.0234

Jupiter 39654-09-04 20:53 G 16204633.27 16204633.37 16204633.48 0.0518 0.0288 *

Saturn 39654-12-02 05:17 G 16204721.60 16204721.72 16204721.84 0.0280 0.0099

Saturn 39655-02-28 16:05 G 16204810.04 16204810.17 16204810.30 0.0279 0.0036

Mars 39655-04-17 13:41 G 16204857.91 16204858.07 16204858.23 0.1600 0.0496

Saturn 39655-05-28 02:38 G 16204898.51 16204898.61 16204898.72 0.0278 0.0168

Venus 39656-05-15 23:46 G 16205252.39 16205252.49 16205252.60 0.3688 0.0103

Moon 39657-07-25 05:46 G 16205687.64 16205687.74 16205687.85 0.2652 0.0586

Earth 39657-07-25 06:29 G 16205687.67 16205687.77 16205687.87 0.2652 0.0730 *

Jupiter 39660-07-31 15:36 G 16206790.04 16206790.15 16206790.26 0.0506 0.0399

Jupiter 39660-10-30 04:48 G 16206880.62 16206880.70 16206880.78 0.0508 0.0450

Moon 39661-01-22 18:14 G 16206965.10 16206965.26 16206965.43 0.2673 0.0277

Earth 39661-01-22 18:43 G 16206965.11 16206965.28 16206965.44 0.2680 0.0349 *

Venus 39661-11-29 15:50 G 16207276.07 16207276.16 16207276.24 0.3687 0.2068

Neptune 39663-02-08 03:50 G 16207711.63 16207711.66 16207711.72 0.0089 0.0083

Neptune 39663-05-07 05:02 G 16207799.66 16207799.71 16207799.79 0.0089 0.0076

Neptune 39663-08-03 06:43 G 16207887.70 16207887.78 16207887.86 0.0089 0.0068

Neptune 39663-10-30 07:55 G 16207975.74 16207975.83 16207975.93 0.0089 0.0061

Neptune 39664-01-26 09:07 G 16208063.78 16208063.88 16208063.99 0.0089 0.0053

Neptune 39664-04-23 10:34 G 16208151.83 16208151.94 16208152.05 0.0089 0.0046

Neptune 39664-07-20 11:46 G 16208239.87 16208239.99 16208240.11 0.0089 0.0038

Mars 39664-09-06 15:36 G 16208288.01 16208288.15 16208288.30 0.1598 0.0828

Neptune 39664-10-16 13:12 G 16208327.92 16208328.05 16208328.17 0.0089 0.0031

Neptune 39665-01-12 14:24 G 16208415.97 16208416.10 16208416.23 0.0089 0.0024

Neptune 39665-04-10 15:36 G 16208504.02 16208504.15 16208504.28 0.0089 0.0016

Neptune 39665-07-07 17:02 G 16208592.08 16208592.21 16208592.34 0.0089 0.0009

Neptune 39665-10-03 18:14 G 16208680.13 16208680.26 16208680.39 0.0089 0.0002

Neptune 39665-12-30 19:41 G 16208768.18 16208768.32 16208768.45 0.0089 0.0007

Jupiter 39666-03-26 21:22 G 16208854.33 16208854.39 16208854.45 0.0520 0.0446

Neptune 39666-03-28 20:53 G 16208856.24 16208856.37 16208856.50 0.0089 0.0014

Jupiter 39666-06-24 01:41 G 16208943.45 16208943.57 16208943.69 0.0519 0.0144

Neptune 39666-06-24 22:05 G 16208944.30 16208944.42 16208944.55 0.0089 0.0021

Neptune 39666-09-20 23:17 G 16209032.35 16209032.47 16209032.60 0.0089 0.0029

Neptune 39666-12-18 00:43 G 16209120.41 16209120.53 16209120.65 0.0089 0.0036

Neptune 39667-03-16 01:55 G 16209208.47 16209208.58 16209208.70 0.0089 0.0044

Neptune 39667-06-12 03:22 G 16209296.54 16209296.64 16209296.75 0.0089 0.0051

Neptune 39667-09-08 04:34 G 16209384.60 16209384.69 16209384.80 0.0088 0.0058

Neptune 39667-12-05 06:00 G 16209472.67 16209472.75 16209472.84 0.0088 0.0066

Neptune 39668-03-02 07:12 G 16209560.74 16209560.80 16209560.88 0.0088 0.0073

Neptune 39668-05-29 08:38 G 16209648.81 16209648.86 16209648.92 0.0088 0.0081

Neptune 39668-08-25 09:50 G 16209736.91 16209736.91 16209736.92 0.0088 0.0088

Moon 39670-07-27 23:02 G 16210438.39 16210438.46 16210438.53 0.2657 0.1981

Earth 39670-07-27 23:31 G 16210438.41 16210438.48 16210438.55 0.2651 0.1984 *

Saturn 39671-03-10 17:17 G 16210664.05 16210664.22 16210664.39 0.0282 0.0125

Saturn 39671-06-07 17:31 G 16210753.05 16210753.23 16210753.42 0.0283 0.0081

Venus 39671-06-12 07:26 G 16210757.67 16210757.81 16210757.96 0.3683 0.1177

Jupiter 39672-08-18 01:12 G 16211190.39 16211190.55 16211190.72 0.0507 0.0243

Moon 39674-01-26 03:36 G 16211716.64 16211716.65 16211716.66 0.2675 0.2665

Moon 39677-07-21 00:58 G 16212988.46 16212988.54 16212988.63 0.2646 0.1498

Earth 39677-07-21 01:12 G 16212988.46 16212988.55 16212988.64 0.2652 0.1519 *

Jupiter 39678-04-12 05:46 G 16213253.61 16213253.74 16213253.86 0.0519 0.0016

Mars 39678-10-06 06:00 G 16213430.64 16213430.75 16213430.85 0.1934 0.0743

Saturn 39684-01-22 21:36 G 16215365.37 16215365.40 16215365.45 0.0282 0.0267

Saturn 39684-04-20 08:24 G 16215453.74 16215453.85 16215453.97 0.0281 0.0131

Jupiter 39684-06-05 22:05 G 16215500.24 16215500.42 16215500.61 0.0507 0.0039

Saturn 39684-07-17 19:12 G 16215542.17 16215542.30 16215542.43 0.0280 0.0007

Saturn 39684-10-14 06:00 G 16215630.64 16215630.75 16215630.86 0.0279 0.0137

Saturn 39685-01-10 16:34 G 16215719.17 16215719.19 16215719.23 0.0277 0.0270

Mars 39688-02-26 13:55 G 16216860.98 16216861.08 16216861.19 0.1937 0.0696

Jupiter 39690-01-29 10:05 G 16217563.80 16217563.92 16217564.04 0.0519 0.0163

Uranus 39690-01-30 06:00 G 16217564.73 16217564.75 16217564.79 0.0142 0.0138

Uranus 39690-04-28 09:36 G 16217652.83 16217652.90 16217652.98 0.0142 0.0117

Jupiter 39690-04-28 14:24 G 16217653.03 16217653.10 16217653.17 0.0517 0.0426

Moon 39690-07-23 17:31 G 16217739.13 16217739.23 16217739.34 0.2649 0.0417

Earth 39690-07-23 18:14 G 16217739.15 16217739.26 16217739.37 0.2652 0.0273 *

Uranus 39690-07-25 12:58 G 16217740.96 16217741.04 16217741.15 0.0142 0.0097

Uranus 39690-10-21 16:34 G 16217829.08 16217829.19 16217829.31 0.0143 0.0075

Uranus 39691-01-17 20:10 G 16217917.22 16217917.34 16217917.46 0.0143 0.0054

Uranus 39691-04-15 23:46 G 16218005.36 16218005.49 16218005.62 0.0143 0.0033

Uranus 39691-07-13 03:22 G 16218093.50 16218093.64 16218093.77 0.0143 0.0012

Uranus 39691-10-09 06:43 G 16218181.65 16218181.78 16218181.92 0.0143 0.0011

Uranus 39692-01-05 10:19 G 16218269.80 16218269.93 16218270.06 0.0143 0.0032

Uranus 39692-04-02 13:55 G 16218357.96 16218358.08 16218358.20 0.0143 0.0053

Uranus 39692-06-29 17:31 G 16218446.12 16218446.23 16218446.34 0.0143 0.0075

Uranus 39692-09-25 21:07 G 16218534.29 16218534.38 16218534.48 0.0143 0.0097

Uranus 39692-12-23 00:43 G 16218622.46 16218622.53 16218622.61 0.0143 0.0119

Uranus 39693-03-21 04:19 G 16218710.67 16218710.68 16218710.70 0.0143 0.0141

Mars 39694-10-16 14:24 G 16219284.95 16219285.10 16219285.25 0.1600 0.0703

Jupiter 39696-03-24 18:14 G 16219810.09 16219810.26 16219810.44 0.0506 0.0175

Saturn 39700-07-28 16:05 G 16221396.03 16221396.17 16221396.32 0.0282 0.0180

Saturn 39700-10-25 16:34 G 16221485.00 16221485.19 16221485.38 0.0283 0.0026

Saturn 39701-01-22 16:34 G 16221574.09 16221574.19 16221574.30 0.0284 0.0233

Jupiter 39701-11-18 14:38 G 16221874.01 16221874.11 16221874.21 0.0520 0.0313

Venus 39701-11-22 13:41 G 16221878.02 16221878.07 16221878.12 0.3689 0.3260

Jupiter 39702-02-15 18:58 G 16221963.18 16221963.29 16221963.40 0.0518 0.0276

Moon 39703-07-27 10:34 G 16222489.84 16222489.94 16222490.04 0.2653 0.0951

Earth 39703-07-27 11:17 G 16222489.87 16222489.97 16222490.07 0.2652 0.0986 *

Mars 39704-03-08 16:19 G 16222715.03 16222715.18 16222715.34 0.1598 0.0619

Moon 39707-01-25 01:26 G 16223767.39 16223767.56 16223767.73 0.2673 0.0100

Earth 39707-01-25 01:41 G 16223767.41 16223767.57 16223767.74 0.2680 0.0259 *

Venus 39707-06-08 05:31 G 16223901.63 16223901.73 16223901.82 0.3688 0.1285

Jupiter 39708-01-12 14:10 G 16224119.98 16224120.09 16224120.21 0.0506 0.0390

Jupiter 39708-04-12 03:22 G 16224210.57 16224210.64 16224210.72 0.0508 0.0461

Moon 39710-07-20 13:12 G 16225040.01 16225040.05 16225040.08 0.2646 0.2487

Earth 39710-07-20 12:58 G 16225040.01 16225040.04 16225040.07 0.2653 0.2511 *

Venus 39712-12-21 21:22 G 16225925.29 16225925.39 16225925.49 0.3688 0.0747

Jupiter 39713-09-06 19:26 G 16226184.25 16226184.31 16226184.37 0.0521 0.0456

Saturn 39713-09-08 11:31 G 16226185.87 16226185.98 16226186.08 0.0281 0.0164

Jupiter 39713-12-04 23:46 G 16226273.37 16226273.49 16226273.61 0.0519 0.0135

Saturn 39713-12-05 22:05 G 16226274.30 16226274.42 16226274.55 0.0280 0.0031

Saturn 39714-03-04 08:53 G 16226362.75 16226362.87 16226362.99 0.0278 0.0104

Saturn 39714-05-31 19:26 G 16226451.25 16226451.31 16226451.39 0.0277 0.0236

Moon 39716-07-29 03:50 G 16227240.60 16227240.66 16227240.72 0.2657 0.2153

Earth 39716-07-29 04:05 G 16227240.62 16227240.67 16227240.73 0.2651 0.2239 *

Mars 39718-04-07 06:00 G 16227857.65 16227857.75 16227857.85 0.1934 0.0912

Venus 39718-07-07 13:12 G 16227948.99 16227949.05 16227949.12 0.3687 0.2811

Jupiter 39720-01-29 23:02 G 16228520.29 16228520.46 16228520.62 0.0507 0.0239

Moon 39723-07-23 05:46 G 16229790.64 16229790.74 16229790.83 0.2647 0.1321

Earth 39723-07-23 06:00 G 16229790.65 16229790.75 16229790.84 0.2652 0.1267 *

Jupiter 39725-09-23 04:34 G 16230583.56 16230583.69 16230583.82 0.0519 0.0008

Mars 39727-08-28 13:55 G 16231287.97 16231288.08 16231288.19 0.1937 0.0535

Venus 39728-01-18 09:07 G 16231430.73 16231430.88 16231431.02 0.3683 0.0728

Saturn 39729-12-15 13:55 G 16232127.99 16232128.08 16232128.18 0.0281 0.0242

Saturn 39730-03-14 14:24 G 16232216.91 16232217.10 16232217.28 0.0283 0.0037

Saturn 39730-06-11 14:38 G 16232305.96 16232306.11 16232306.26 0.0284 0.0170

Uranus 39730-12-02 19:26 G 16232480.25 16232480.31 16232480.40 0.0136 0.0126

Uranus 39731-03-01 02:53 G 16232568.50 16232568.62 16232568.77 0.0136 0.0099

Uranus 39731-05-28 10:19 G 16232656.78 16232656.93 16232657.11 0.0135 0.0072

Uranus 39731-08-24 17:46 G 16232745.07 16232745.24 16232745.43 0.0135 0.0045

Jupiter 39731-11-17 19:26 G 16232830.13 16232830.31 16232830.50 0.0507 0.0033

Uranus 39731-11-21 01:26 G 16232833.37 16232833.56 16232833.75 0.0135 0.0017

Uranus 39732-02-17 08:38 G 16232921.67 16232921.86 16232922.05 0.0135 0.0009

Uranus 39732-05-15 15:50 G 16233009.98 16233010.16 16233010.35 0.0135 0.0036

Uranus 39732-08-11 23:02 G 16233098.29 16233098.46 16233098.63 0.0135 0.0062

Uranus 39732-11-08 06:14 G 16233186.62 16233186.76 16233186.91 0.0135 0.0088

Uranus 39733-02-04 13:12 G 16233274.96 16233275.05 16233275.16 0.0135 0.0114

Mars 39734-04-17 15:07 G 16233711.99 16233712.13 16233712.27 0.1600 0.0919

Moon 39736-07-24 22:19 G 16234541.32 16234541.43 16234541.54 0.2649 0.0080

Earth 39736-07-24 22:48 G 16234541.35 16234541.45 16234541.56 0.2652 0.0118 *

Jupiter 39737-07-12 08:38 G 16234893.74 16234893.86 16234893.98 0.0519 0.0163

Jupiter 39737-10-09 12:58 G 16234982.97 16234983.04 16234983.11 0.0517 0.0425

Earth 39740-01-22 22:34 G 16235818.37 16235818.44 16235818.51 0.2679 0.2420

Moon 39740-01-22 22:48 G 16235818.38 16235818.45 16235818.53 0.2673 0.2397 *

Saturn 39743-01-26 14:10 G 16236918.01 16236918.09 16236918.18 0.0282 0.0201

Saturn 39743-04-25 00:58 G 16237006.42 16237006.54 16237006.67 0.0281 0.0066

Saturn 39743-07-22 11:46 G 16237094.86 16237094.99 16237095.12 0.0279 0.0069

Jupiter 39743-09-05 16:19 G 16237140.00 16237140.18 16237140.35 0.0507 0.0174

Mars 39743-09-07 17:02 G 16237142.05 16237142.21 16237142.37 0.1598 0.0406

Saturn 39743-10-18 22:34 G 16237183.35 16237183.44 16237183.53 0.0278 0.0201

Neptune 39747-04-18 06:58 G 16238460.76 16238460.79 16238460.86 0.0089 0.0086

Neptune 39747-07-15 10:34 G 16238548.86 16238548.94 16238549.06 0.0089 0.0075

Neptune 39747-10-11 14:10 G 16238636.98 16238637.09 16238637.25 0.0089 0.0064

Neptune 39748-01-07 18:00 G 16238725.11 16238725.25 16238725.42 0.0089 0.0053

Neptune 39748-04-04 22:05 G 16238813.25 16238813.42 16238813.59 0.0089 0.0041

Neptune 39748-07-02 01:41 G 16238901.39 16238901.57 16238901.75 0.0089 0.0030

Neptune 39748-09-28 05:17 G 16238989.53 16238989.72 16238989.91 0.0089 0.0019

Neptune 39748-12-25 08:53 G 16239077.68 16239077.87 16239078.07 0.0089 0.0008

Neptune 39749-03-23 12:29 G 16239165.83 16239166.02 16239166.22 0.0089 0.0004

Jupiter 39749-04-30 13:12 G 16239203.95 16239204.05 16239204.15 0.0520 0.0311

Neptune 39749-06-19 16:05 G 16239253.98 16239254.17 16239254.37 0.0089 0.0014

Moon 39749-07-27 15:22 G 16239292.04 16239292.14 16239292.24 0.2655 0.1103

Earth 39749-07-27 15:50 G 16239292.07 16239292.16 16239292.26 0.2651 0.1234 *

Jupiter 39749-07-28 17:31 G 16239293.12 16239293.23 16239293.34 0.0518 0.0278

Neptune 39749-09-15 19:41 G 16239342.14 16239342.32 16239342.51 0.0089 0.0025

Neptune 39749-12-12 23:17 G 16239430.30 16239430.47 16239430.66 0.0089 0.0036

Neptune 39750-03-11 02:53 G 16239518.46 16239518.62 16239518.79 0.0089 0.0047

Neptune 39750-06-07 06:14 G 16239606.63 16239606.76 16239606.92 0.0089 0.0058

Neptune 39750-09-03 09:50 G 16239694.81 16239694.91 16239695.05 0.0089 0.0069

Pluto 39750-10-05 15:22 G 16239727.14 16239727.14 16239727.16 0.0069 0.0068

Neptune 39750-11-30 13:12 G 16239782.99 16239783.05 16239783.16 0.0089 0.0080

Pluto 39751-01-01 16:05 G 16239815.10 16239815.17 16239815.24 0.0069 0.0058

Pluto 39751-03-30 16:34 G 16239903.10 16239903.19 16239903.28 0.0069 0.0048

Pluto 39751-06-26 17:02 G 16239991.11 16239991.21 16239991.32 0.0069 0.0038

Pluto 39751-09-22 17:31 G 16240079.12 16240079.23 16240079.36 0.0069 0.0028

Pluto 39751-12-19 18:14 G 16240167.13 16240167.26 16240167.39 0.0069 0.0017

Pluto 39752-03-16 18:43 G 16240255.15 16240255.28 16240255.41 0.0069 0.0007

Pluto 39752-06-12 19:12 G 16240343.17 16240343.30 16240343.44 0.0069 0.0004

Pluto 39752-09-08 19:55 G 16240431.20 16240431.33 16240431.46 0.0070 0.0014

Pluto 39752-12-05 20:10 G 16240519.23 16240519.34 16240519.47 0.0070 0.0025

Moon 39753-01-25 08:10 G 16240569.68 16240569.84 16240570.00 0.2673 0.0879

Earth 39753-01-25 08:38 G 16240569.71 16240569.86 16240570.02 0.2680 0.0851 *

Pluto 39753-03-03 20:53 G 16240607.26 16240607.37 16240607.49 0.0070 0.0035

Pluto 39753-05-30 21:22 G 16240695.30 16240695.39 16240695.49 0.0070 0.0046

Pluto 39753-08-26 22:05 G 16240783.34 16240783.42 16240783.50 0.0070 0.0056

Pluto 39753-11-22 22:34 G 16240871.41 16240871.44 16240871.48 0.0070 0.0067

Jupiter 39755-06-24 12:29 G 16241449.90 16241450.02 16241450.15 0.0506 0.0384

Jupiter 39755-09-23 01:55 G 16241540.51 16241540.58 16241540.65 0.0508 0.0468

Earth 39756-07-20 17:46 G 16241842.18 16241842.24 16241842.29 0.2653 0.2260

Moon 39756-07-20 17:46 G 16241842.19 16241842.24 16241842.30 0.2646 0.2208 *

Mars 39757-10-06 05:46 G 16242284.65 16242284.74 16242284.84 0.1934 0.1059

Venus 39758-06-29 11:02 G 16242550.89 16242550.96 16242551.04 0.3688 0.2563

Saturn 39759-08-01 12:14 G 16242948.84 16242949.01 16242949.19 0.0282 0.0098

Saturn 39759-10-29 12:29 G 16243037.85 16243038.02 16243038.20 0.0284 0.0109

Jupiter 39761-02-16 17:46 G 16243514.18 16243514.24 16243514.29 0.0520 0.0461

Jupiter 39761-05-16 22:05 G 16243603.29 16243603.42 16243603.54 0.0518 0.0130

Moon 39762-07-30 08:38 G 16244042.83 16244042.86 16244042.89 0.2657 0.2511

Earth 39762-07-30 08:53 G 16244042.84 16244042.87 16244042.90 0.2651 0.2485 *

Venus 39764-01-13 02:53 G 16244574.52 16244574.62 16244574.73 0.3688 0.0565

Mars 39767-02-26 13:55 G 16245714.97 16245715.08 16245715.19 0.1937 0.0371

Jupiter 39767-07-11 22:05 G 16245850.26 16245850.42 16245850.58 0.0507 0.0255

Moon 39769-07-23 10:19 G 16246592.83 16246592.93 16246593.02 0.2647 0.1083

Earth 39769-07-23 10:34 G 16246592.85 16246592.94 16246593.04 0.2652 0.1021 *

Venus 39769-07-28 18:58 G 16246598.19 16246598.29 16246598.38 0.3687 0.1490

Saturn 39772-06-14 16:48 G 16247650.13 16247650.20 16247650.27 0.0282 0.0239

Saturn 39772-09-11 03:36 G 16247738.53 16247738.65 16247738.77 0.0280 0.0104

Saturn 39772-12-08 14:24 G 16247826.97 16247827.10 16247827.23 0.0279 0.0031

Jupiter 39773-03-05 02:53 G 16247913.49 16247913.62 16247913.74 0.0519 0.0016

Saturn 39773-03-07 00:58 G 16247915.44 16247915.54 16247915.65 0.0278 0.0164

Mars 39773-10-16 15:50 G 16248139.04 16248139.16 16248139.27 0.1601 0.1128

Uranus 39774-02-20 13:26 G 16248266.02 16248266.06 16248266.12 0.0142 0.0133

Uranus 39774-05-19 17:02 G 16248354.13 16248354.21 16248354.29 0.0143 0.0112

Uranus 39774-08-15 20:24 G 16248442.26 16248442.35 16248442.46 0.0143 0.0091

Uranus 39774-11-12 00:00 G 16248530.39 16248530.50 16248530.62 0.0143 0.0070

Uranus 39775-02-08 03:36 G 16248618.53 16248618.65 16248618.78 0.0143 0.0048

Venus 39775-02-11 10:48 G 16248621.93 16248621.95 16248621.98 0.3687 0.3560

Uranus 39775-05-07 07:12 G 16248706.67 16248706.80 16248706.93 0.0143 0.0027

Uranus 39775-08-03 10:48 G 16248794.81 16248794.95 16248795.08 0.0143 0.0007

Uranus 39775-10-30 14:10 G 16248882.96 16248883.09 16248883.23 0.0143 0.0017

Uranus 39776-01-26 17:46 G 16248971.11 16248971.24 16248971.37 0.0143 0.0038

Uranus 39776-04-23 21:22 G 16249059.27 16249059.39 16249059.51 0.0143 0.0060

Mars 39776-07-18 22:05 G 16249145.38 16249145.42 16249145.46 0.1940 0.1805

Uranus 39776-07-21 00:58 G 16249147.43 16249147.54 16249147.65 0.0143 0.0082

Uranus 39776-10-17 04:34 G 16249235.60 16249235.69 16249235.78 0.0143 0.0104

Uranus 39777-01-13 08:10 G 16249323.78 16249323.84 16249323.91 0.0143 0.0126

Venus 39779-02-08 03:36 G 16250079.57 16250079.65 16250079.72 0.3682 0.3173

Jupiter 39779-04-29 17:46 G 16250160.05 16250160.24 16250160.42 0.0507 0.0036

Moon 39782-07-26 02:53 G 16251343.52 16251343.62 16251343.73 0.2650 0.0160

Earth 39782-07-26 03:36 G 16251343.54 16251343.65 16251343.76 0.2652 0.0237 *

Mars 39783-03-08 17:46 G 16251569.07 16251569.24 16251569.41 0.1598 0.0195

Venus 39784-08-24 10:34 G 16252103.84 16252103.94 16252104.04 0.3683 0.2619

Jupiter 39784-12-22 07:41 G 16252223.70 16252223.82 16252223.94 0.0520 0.0154

Jupiter 39785-03-21 12:00 G 16252312.94 16252313.00 16252313.07 0.0518 0.0436

Earth 39786-01-23 05:31 G 16252620.61 16252620.73 16252620.86 0.2680 0.1812

Moon 39786-01-23 05:46 G 16252620.62 16252620.74 16252620.87 0.2672 0.1770 *

Saturn 39788-12-18 09:07 G 16253680.73 16253680.88 16253681.03 0.0282 0.0168

Saturn 39789-03-17 09:22 G 16253769.70 16253769.89 16253770.08 0.0283 0.0038

Saturn 39789-06-14 09:36 G 16253858.81 16253858.90 16253858.99 0.0284 0.0244

Jupiter 39791-02-15 14:10 G 16254469.92 16254470.09 16254470.27 0.0506 0.0172

Mars 39792-07-28 19:41 G 16254999.28 16254999.32 16254999.37 0.1596 0.1519

Moon 39795-07-28 20:10 G 16256094.25 16256094.34 16256094.42 0.2656 0.1470

Earth 39795-07-28 20:38 G 16256094.27 16256094.36 16256094.45 0.2651 0.1487 *

Jupiter 39796-10-10 12:00 G 16256533.90 16256534.00 16256534.10 0.0520 0.0306

Jupiter 39797-01-07 16:19 G 16256623.07 16256623.18 16256623.28 0.0518 0.0282

Mars 39797-04-06 05:46 G 16256711.65 16256711.74 16256711.83 0.1934 0.1223

Moon 39799-01-26 14:53 G 16257371.97 16257372.12 16257372.27 0.2674 0.1262

Earth 39799-01-26 15:50 G 16257372.02 16257372.16 16257372.29 0.2680 0.1448 *

Saturn 39801-11-02 19:12 G 16258382.29 16258382.30 16258382.32 0.0283 0.0280

Saturn 39802-01-30 06:00 G 16258470.64 16258470.75 16258470.87 0.0281 0.0144

Saturn 39802-04-28 16:48 G 16258559.07 16258559.20 16258559.33 0.0280 0.0012

Moon 39802-07-22 22:34 G 16258644.37 16258644.44 16258644.50 0.2646 0.2029

Earth 39802-07-22 22:19 G 16258644.37 16258644.43 16258644.50 0.2653 0.2010 *

Saturn 39802-07-26 03:36 G 16258647.54 16258647.65 16258647.77 0.0279 0.0126

Saturn 39802-10-22 14:24 G 16258736.06 16258736.10 16258736.15 0.0278 0.0258

Jupiter 39802-12-05 10:48 G 16258779.83 16258779.95 16258780.08 0.0506 0.0378

Jupiter 39803-03-06 00:14 G 16258870.45 16258870.51 16258870.57 0.0508 0.0476

Mars 39806-08-28 13:55 G 16260141.97 16260142.08 16260142.19 0.1937 0.0208

Jupiter 39808-07-30 16:34 G 16260844.13 16260844.19 16260844.25 0.0520 0.0452

Jupiter 39808-10-27 20:53 G 16260933.25 16260933.37 16260933.49 0.0518 0.0136

Mars 39813-04-17 16:19 G 16262566.09 16262566.18 16262566.27 0.1601 0.1331

Jupiter 39814-12-22 20:53 G 16263180.21 16263180.37 16263180.53 0.0507 0.0269

Uranus 39814-12-24 02:53 G 16263181.54 16263181.62 16263181.73 0.0136 0.0118

Venus 39815-02-04 08:38 G 16263223.77 16263223.86 16263223.95 0.3688 0.1841

Uranus 39815-03-22 10:19 G 16263269.80 16263269.93 16263270.09 0.0135 0.0091

Uranus 39815-06-18 17:46 G 16263358.08 16263358.24 16263358.42 0.0135 0.0064

Moon 39815-07-25 14:53 G 16263395.02 16263395.12 16263395.22 0.2648 0.0809

Earth 39815-07-25 15:22 G 16263395.04 16263395.14 16263395.24 0.2652 0.0763 *

Uranus 39815-09-15 01:26 G 16263446.37 16263446.56 16263446.75 0.0135 0.0036

Uranus 39815-12-12 08:38 G 16263534.67 16263534.86 16263535.06 0.0135 0.0010

Mars 39816-01-18 21:50 G 16263572.36 16263572.41 16263572.47 0.1940 0.1661

Uranus 39816-03-09 16:05 G 16263622.98 16263623.17 16263623.36 0.0135 0.0017

Uranus 39816-06-05 23:17 G 16263711.29 16263711.47 16263711.65 0.0135 0.0043

Uranus 39816-09-02 06:14 G 16263799.61 16263799.76 16263799.93 0.0135 0.0070

Uranus 39816-11-29 13:26 G 16263887.94 16263888.06 16263888.20 0.0135 0.0096

Uranus 39817-02-25 20:24 G 16263976.29 16263976.35 16263976.45 0.0135 0.0122

Saturn 39818-05-08 06:29 G 16264412.67 16264412.77 16264412.88 0.0281 0.0233

Saturn 39818-08-05 06:43 G 16264501.59 16264501.78 16264501.97 0.0282 0.0029

Saturn 39818-11-02 06:58 G 16264590.65 16264590.79 16264590.94 0.0284 0.0178

Jupiter 39820-08-16 01:26 G 16265243.43 16265243.56 16265243.69 0.0519 0.0013

Venus 39820-08-20 00:29 G 16265247.42 16265247.52 16265247.62 0.3688 0.0180

Mars 39822-09-07 18:29 G 16265996.10 16265996.27 16265996.43 0.1598 0.0037

Venus 39826-03-05 16:19 G 16267271.10 16267271.18 16267271.27 0.3687 0.2241

Jupiter 39826-10-10 17:17 G 16267490.03 16267490.22 16267490.40 0.0507 0.0058

Neptune 39827-08-11 02:38 G 16267794.59 16267794.61 16267794.64 0.0089 0.0087

Neptune 39827-11-07 03:50 G 16267882.61 16267882.66 16267882.72 0.0089 0.0079

Neptune 39828-02-03 05:17 G 16267970.65 16267970.72 16267970.80 0.0089 0.0072

Neptune 39828-05-01 06:29 G 16268058.69 16268058.77 16268058.86 0.0089 0.0065

Moon 39828-07-27 07:41 G 16268145.71 16268145.82 16268145.93 0.2652 0.0408

Earth 39828-07-27 08:24 G 16268145.74 16268145.85 16268145.95 0.2652 0.0489 *

Neptune 39828-07-28 07:41 G 16268146.73 16268146.82 16268146.93 0.0089 0.0057

Neptune 39828-10-24 09:07 G 16268234.77 16268234.88 16268234.99 0.0089 0.0050

Neptune 39829-01-20 10:19 G 16268322.82 16268322.93 16268323.05 0.0089 0.0043

Neptune 39829-04-18 11:31 G 16268410.87 16268410.98 16268411.11 0.0089 0.0035

Neptune 39829-07-15 12:58 G 16268498.92 16268499.04 16268499.17 0.0089 0.0028

Neptune 39829-10-11 14:10 G 16268586.96 16268587.09 16268587.22 0.0089 0.0020

Neptune 39830-01-07 15:22 G 16268675.02 16268675.14 16268675.28 0.0089 0.0014

Neptune 39830-04-05 16:48 G 16268763.07 16268763.20 16268763.33 0.0089 0.0006

Neptune 39830-07-02 18:00 G 16268851.12 16268851.25 16268851.39 0.0089 0.0004

Neptune 39830-09-28 19:26 G 16268939.18 16268939.31 16268939.44 0.0089 0.0009

Neptune 39830-12-25 20:38 G 16269027.23 16269027.36 16269027.49 0.0089 0.0017

Neptune 39831-03-23 21:50 G 16269115.29 16269115.41 16269115.54 0.0089 0.0025

Saturn 39831-06-19 08:10 G 16269202.75 16269202.84 16269202.94 0.0281 0.0187

Neptune 39831-06-19 23:17 G 16269203.35 16269203.47 16269203.60 0.0089 0.0032

Saturn 39831-09-15 19:12 G 16269291.17 16269291.30 16269291.42 0.0280 0.0051

Neptune 39831-09-16 00:29 G 16269291.41 16269291.52 16269291.65 0.0088 0.0039 *

Neptune 39831-12-13 01:55 G 16269379.47 16269379.58 16269379.69 0.0088 0.0047

Saturn 39831-12-13 05:46 G 16269379.62 16269379.74 16269379.87 0.0279 0.0084 *

Moon 39832-01-25 12:58 G 16269422.88 16269423.04 16269423.19 0.2673 0.1168

Earth 39832-01-25 12:43 G 16269422.88 16269423.03 16269423.18 0.2680 0.1206 *

Mars 39832-01-28 20:24 G 16269426.26 16269426.35 16269426.45 0.1596 0.1309

Neptune 39832-03-10 03:07 G 16269467.53 16269467.63 16269467.74 0.0088 0.0054

Saturn 39832-03-10 16:34 G 16269468.11 16269468.19 16269468.27 0.0278 0.0217

Jupiter 39832-06-04 06:14 G 16269553.64 16269553.76 16269553.88 0.0520 0.0154

Neptune 39832-06-06 04:19 G 16269555.60 16269555.68 16269555.78 0.0088 0.0062

Jupiter 39832-09-01 10:34 G 16269642.88 16269642.94 16269643.01 0.0518 0.0436

Neptune 39832-09-02 05:31 G 16269643.66 16269643.73 16269643.83 0.0088 0.0070

Neptune 39832-11-29 06:58 G 16269731.74 16269731.79 16269731.86 0.0088 0.0077

Neptune 39833-02-25 08:10 G 16269819.82 16269819.84 16269819.89 0.0088 0.0085

Venus 39835-09-16 05:17 G 16270752.57 16270752.72 16270752.86 0.3683 0.1223

Mars 39836-10-06 06:00 G 16271138.67 16271138.75 16271138.82 0.1934 0.1407

Pluto 39837-02-05 10:48 G 16271260.88 16271260.95 16271261.07 0.0075 0.0066

Pluto 39837-05-04 13:41 G 16271348.93 16271349.07 16271349.24 0.0075 0.0046

Pluto 39837-07-31 16:34 G 16271437.01 16271437.19 16271437.38 0.0075 0.0026

Pluto 39837-10-27 19:12 G 16271525.10 16271525.30 16271525.50 0.0075 0.0007

Pluto 39838-01-23 21:36 G 16271613.21 16271613.40 16271613.60 0.0075 0.0013

Pluto 39838-04-22 00:00 G 16271701.33 16271701.50 16271701.69 0.0074 0.0033

Pluto 39838-07-19 02:38 G 16271789.48 16271789.61 16271789.76 0.0074 0.0052

Jupiter 39838-07-29 12:58 G 16271799.87 16271800.04 16271800.22 0.0506 0.0160

Pluto 39838-10-15 05:17 G 16271877.67 16271877.72 16271877.78 0.0074 0.0071

Moon 39841-07-30 00:43 G 16272896.45 16272896.53 16272896.62 0.2656 0.1633

Earth 39841-07-30 01:12 G 16272896.47 16272896.55 16272896.63 0.2651 0.1740 *

Jupiter 39844-03-23 11:02 G 16273863.86 16273863.96 16273864.07 0.0520 0.0295

Jupiter 39844-06-20 15:36 G 16273953.04 16273953.15 16273953.25 0.0518 0.0296

Moon 39845-01-27 21:36 G 16274174.28 16274174.40 16274174.51 0.2675 0.1910

Earth 39845-01-27 22:48 G 16274174.35 16274174.45 16274174.56 0.2680 0.2047 *

Mars 39846-02-26 13:55 G 16274568.96 16274569.08 16274569.19 0.1937 0.0077

Saturn 39847-12-23 02:53 G 16275233.45 16275233.62 16275233.80 0.0282 0.0105

Saturn 39848-03-21 03:07 G 16275322.46 16275322.63 16275322.81 0.0283 0.0102

Moon 39848-07-23 03:07 G 16275446.55 16275446.63 16275446.71 0.2646 0.1718

Earth 39848-07-23 03:07 G 16275446.55 16275446.63 16275446.71 0.2652 0.1754 *

Jupiter 39850-05-17 09:36 G 16276109.77 16276109.90 16276110.03 0.0506 0.0366

Jupiter 39850-08-15 22:48 G 16276200.41 16276200.45 16276200.51 0.0508 0.0486

Mars 39852-10-16 17:02 G 16276993.17 16276993.21 16276993.25 0.1601 0.1547

Mars 39855-07-19 21:50 G 16277999.34 16277999.41 16277999.49 0.1940 0.1492

Jupiter 39856-01-10 15:36 G 16278174.09 16278174.15 16278174.22 0.0520 0.0444

Jupiter 39856-04-08 19:55 G 16278263.21 16278263.33 16278263.45 0.0518 0.0145

Uranus 39858-03-13 20:38 G 16278967.31 16278967.36 16278967.42 0.0142 0.0128

Uranus 39858-06-10 00:14 G 16279055.43 16279055.51 16279055.60 0.0143 0.0107

Uranus 39858-09-06 03:36 G 16279143.55 16279143.65 16279143.76 0.0143 0.0086

Uranus 39858-12-03 07:12 G 16279231.69 16279231.80 16279231.92 0.0143 0.0065

Uranus 39859-03-01 10:48 G 16279319.82 16279319.95 16279320.08 0.0143 0.0043

Uranus 39859-05-28 14:24 G 16279407.97 16279408.10 16279408.23 0.0143 0.0022

Uranus 39859-08-24 17:46 G 16279496.11 16279496.24 16279496.38 0.0143 0.0005

Uranus 39859-11-20 21:22 G 16279584.26 16279584.39 16279584.52 0.0143 0.0021

Uranus 39860-02-17 00:58 G 16279672.42 16279672.54 16279672.67 0.0143 0.0043

Uranus 39860-05-15 04:34 G 16279760.57 16279760.69 16279760.81 0.0143 0.0065

Uranus 39860-08-11 08:10 G 16279848.74 16279848.84 16279848.95 0.0143 0.0087

Saturn 39860-11-05 10:19 G 16279934.86 16279934.93 16279935.01 0.0282 0.0232

Uranus 39860-11-07 11:46 G 16279936.91 16279936.99 16279937.08 0.0143 0.0109

Saturn 39861-02-01 21:07 G 16280023.26 16280023.38 16280023.51 0.0281 0.0096

Uranus 39861-02-03 15:22 G 16280025.09 16280025.14 16280025.20 0.0144 0.0131

Saturn 39861-05-01 07:55 G 16280111.71 16280111.83 16280111.96 0.0280 0.0042

Moon 39861-07-25 19:41 G 16280197.21 16280197.32 16280197.42 0.2648 0.0624

Earth 39861-07-25 20:10 G 16280197.23 16280197.34 16280197.44 0.2652 0.0514 *

Saturn 39861-07-28 18:43 G 16280200.18 16280200.28 16280200.38 0.0279 0.0175

Mars 39862-03-08 19:12 G 16280423.13 16280423.30 16280423.46 0.1598 0.0228

Jupiter 39862-06-03 19:41 G 16280510.17 16280510.32 16280510.47 0.0508 0.0281

Venus 39866-02-25 14:24 G 16281873.04 16281873.10 16281873.15 0.3689 0.3112

Jupiter 39868-01-27 00:29 G 16282573.40 16282573.52 16282573.65 0.0518 0.0016

Mars 39871-07-29 21:07 G 16283853.26 16283853.38 16283853.50 0.1596 0.1105

Venus 39871-09-11 06:14 G 16283896.66 16283896.76 16283896.85 0.3688 0.1129

Jupiter 39874-03-22 16:19 G 16284820.00 16284820.18 16284820.37 0.0507 0.0075

Moon 39874-07-28 12:29 G 16284947.91 16284948.02 16284948.12 0.2654 0.0667

Earth 39874-07-28 12:58 G 16284947.94 16284948.04 16284948.15 0.2652 0.0742 *

Mars 39876-04-06 05:46 G 16285565.67 16285565.74 16285565.80 0.1934 0.1541

Venus 39877-03-26 22:05 G 16285920.32 16285920.42 16285920.52 0.3687 0.0922

Saturn 39877-05-10 23:31 G 16285965.34 16285965.48 16285965.64 0.0281 0.0176

Saturn 39877-08-07 23:46 G 16286054.31 16286054.49 16286054.68 0.0282 0.0031

Saturn 39877-11-05 00:00 G 16286143.40 16286143.50 16286143.61 0.0284 0.0236

Moon 39878-01-25 19:41 G 16286225.16 16286225.32 16286225.48 0.2673 0.0659

Earth 39878-01-25 19:55 G 16286225.17 16286225.33 16286225.49 0.2680 0.0601 *

Jupiter 39879-11-15 05:02 G 16286883.59 16286883.71 16286883.83 0.0519 0.0148

Jupiter 39880-02-12 09:22 G 16286972.83 16286972.89 16286972.96 0.0517 0.0440

Moon 39881-07-21 15:22 G 16287498.13 16287498.14 16287498.14 0.2647 0.2636

Venus 39882-10-10 13:55 G 16287944.02 16287944.08 16287944.14 0.3687 0.2983

Mars 39885-08-27 13:55 G 16288995.96 16288996.08 16288996.19 0.1937 0.0124

Jupiter 39886-01-08 12:43 G 16289129.85 16289130.03 16289130.21 0.0507 0.0135

Moon 39887-07-31 05:31 G 16289698.66 16289698.73 16289698.80 0.2656 0.1965

Earth 39887-07-31 06:00 G 16289698.68 16289698.75 16289698.82 0.2651 0.1990 *

Saturn 39890-03-25 12:14 G 16290666.99 16290667.01 16290667.04 0.0283 0.0278

Saturn 39890-06-21 23:17 G 16290755.35 16290755.47 16290755.58 0.0281 0.0141

Saturn 39890-09-18 10:05 G 16290843.79 16290843.92 16290844.05 0.0280 0.0010

Saturn 39890-12-15 20:38 G 16290932.25 16290932.36 16290932.48 0.0279 0.0130

Moon 39891-01-29 04:19 G 16290976.62 16290976.68 16290976.75 0.2675 0.2445

Earth 39891-01-29 05:46 G 16290976.72 16290976.74 16290976.77 0.2680 0.2643 *

Saturn 39891-03-14 07:26 G 16291020.77 16291020.81 16291020.85 0.0278 0.0263

Jupiter 39891-09-03 09:50 G 16291193.81 16291193.91 16291194.02 0.0520 0.0291

Jupiter 39891-12-01 14:10 G 16291282.99 16291283.09 16291283.20 0.0518 0.0300

Venus 39892-04-22 06:43 G 16291425.64 16291425.78 16291425.93 0.3683 0.0725

Moon 39894-07-24 07:41 G 16292248.73 16292248.82 16292248.90 0.2646 0.1590

Earth 39894-07-24 07:55 G 16292248.74 16292248.83 16292248.92 0.2652 0.1502 *

Mars 39895-01-17 22:05 G 16292426.33 16292426.42 16292426.50 0.1939 0.1323

Jupiter 39897-10-27 08:38 G 16293439.73 16293439.86 16293440.00 0.0506 0.0349

Jupiter 39898-01-25 21:50 G 16293530.39 16293530.41 16293530.44 0.0508 0.0502

Uranus 39899-01-13 10:19 G 16293882.83 16293882.93 16293883.06 0.0135 0.0110

Uranus 39899-04-11 17:46 G 16293971.10 16293971.24 16293971.41 0.0135 0.0083

Uranus 39899-07-09 01:26 G 16294059.39 16294059.56 16294059.74 0.0135 0.0055

Uranus 39899-10-05 08:53 G 16294147.68 16294147.87 16294148.06 0.0135 0.0028

Uranus 39900-01-01 16:05 G 16294235.98 16294236.17 16294236.37 0.0135 0.0004

Uranus 39900-03-30 23:17 G 16294324.29 16294324.47 16294324.67 0.0135 0.0025

Uranus 39900-06-27 06:29 G 16294412.60 16294412.77 16294412.96 0.0135 0.0051

Uranus 39900-09-23 13:41 G 16294500.92 16294501.07 16294501.24 0.0135 0.0077

Uranus 39900-12-20 20:53 G 16294589.26 16294589.37 16294589.50 0.0135 0.0103

Uranus 39901-03-19 03:50 G 16294677.62 16294677.66 16294677.73 0.0135 0.0129

Mars 39901-09-07 19:55 G 16294850.16 16294850.33 16294850.49 0.1598 0.0438

Jupiter 39903-06-23 14:53 G 16295504.05 16295504.12 16295504.19 0.0520 0.0430

Jupiter 39903-09-20 19:12 G 16295593.18 16295593.30 16295593.42 0.0519 0.0160

Saturn 39906-09-28 19:12 G 16296697.23 16296697.30 16296697.39 0.0281 0.0255

Saturn 39906-12-26 19:41 G 16296786.13 16296786.32 16296786.51 0.0282 0.0050

Saturn 39907-03-25 19:41 G 16296875.17 16296875.32 16296875.48 0.0283 0.0156

Moon 39907-07-28 00:14 G 16296999.40 16296999.51 16296999.62 0.2648 0.0288

Earth 39907-07-28 00:43 G 16296999.43 16296999.53 16296999.64 0.2652 0.0272 *

Jupiter 39909-11-14 18:43 G 16297840.13 16297840.28 16297840.43 0.0507 0.0299

Mars 39911-01-28 21:50 G 16298280.27 16298280.41 16298280.55 0.1597 0.0886

Neptune 39912-01-15 05:31 G 16298631.67 16298631.73 16298631.83 0.0089 0.0081

Neptune 39912-04-12 09:22 G 16298719.79 16298719.89 16298720.03 0.0089 0.0070

Neptune 39912-07-09 13:26 G 16298807.91 16298808.06 16298808.21 0.0089 0.0058

Neptune 39912-10-05 17:02 G 16298896.05 16298896.21 16298896.38 0.0089 0.0047

Neptune 39913-01-01 20:38 G 16298984.19 16298984.36 16298984.55 0.0089 0.0036

Neptune 39913-03-31 00:29 G 16299072.33 16299072.52 16299072.71 0.0089 0.0025

Neptune 39913-06-27 04:05 G 16299160.48 16299160.67 16299160.87 0.0089 0.0014

Neptune 39913-09-23 07:41 G 16299248.63 16299248.82 16299249.02 0.0089 0.0003

Neptune 39913-12-20 11:17 G 16299336.78 16299336.97 16299337.17 0.0089 0.0009

Neptune 39914-03-18 15:07 G 16299424.94 16299425.13 16299425.32 0.0089 0.0019

Neptune 39914-06-14 18:43 G 16299513.09 16299513.28 16299513.46 0.0089 0.0030

Neptune 39914-09-10 22:05 G 16299601.26 16299601.42 16299601.60 0.0089 0.0041

Neptune 39914-12-08 01:41 G 16299689.42 16299689.57 16299689.74 0.0089 0.0052

Neptune 39915-03-06 05:17 G 16299777.59 16299777.72 16299777.87 0.0089 0.0063

Neptune 39915-06-02 08:53 G 16299865.77 16299865.87 16299865.98 0.0089 0.0074

Jupiter 39915-07-09 23:46 G 16299903.36 16299903.49 16299903.61 0.0518 0.0017

Neptune 39915-08-29 12:14 G 16299953.97 16299954.01 16299954.08 0.0089 0.0085

Mars 39915-10-07 05:46 G 16299992.69 16299992.74 16299992.79 0.1934 0.1718

Saturn 39919-11-10 00:58 G 16301487.45 16301487.54 16301487.64 0.0282 0.0189

Saturn 39920-02-06 11:46 G 16301575.87 16301575.99 16301576.12 0.0281 0.0052

Saturn 39920-05-04 22:34 G 16301664.32 16301664.44 16301664.57 0.0280 0.0084

Moon 39920-07-29 17:02 G 16301750.11 16301750.21 16301750.31 0.2654 0.0878

Earth 39920-07-29 17:46 G 16301750.14 16301750.24 16301750.34 0.2651 0.0992 *

Saturn 39920-08-01 09:22 G 16301752.81 16301752.89 16301752.97 0.0279 0.0217

Jupiter 39921-09-02 15:22 G 16302149.96 16302150.14 16302150.33 0.0508 0.0090

Venus 39922-10-03 11:46 G 16302545.92 16302545.99 16302546.07 0.3688 0.2399

Moon 39924-01-28 02:10 G 16303027.42 16303027.59 16303027.76 0.2674 0.0024

Earth 39924-01-28 02:53 G 16303027.45 16303027.62 16303027.78 0.2680 0.0038 *

Mars 39925-02-26 13:41 G 16303422.96 16303423.07 16303423.19 0.1936 0.0281

Jupiter 39927-04-28 04:34 G 16304213.57 16304213.69 16304213.81 0.0519 0.0132

Earth 39927-07-23 19:41 G 16304300.28 16304300.32 16304300.35 0.2653 0.2495

Moon 39927-07-23 19:55 G 16304300.30 16304300.33 16304300.36 0.2647 0.2498 *

Jupiter 39927-07-26 08:38 G 16304302.81 16304302.86 16304302.92 0.0517 0.0456

Venus 39928-04-18 03:36 G 16304569.55 16304569.65 16304569.76 0.3688 0.0393

Jupiter 39933-06-21 12:14 G 16306459.82 16306460.01 16306460.19 0.0507 0.0115

Moon 39933-08-01 10:34 G 16306500.88 16306500.94 16306501.00 0.2657 0.2205

Earth 39933-08-01 10:48 G 16306500.89 16306500.95 16306501.00 0.2651 0.2241 *

Venus 39933-11-01 19:26 G 16306593.22 16306593.31 16306593.41 0.3687 0.1670

Mars 39934-07-19 21:50 G 16306853.32 16306853.41 16306853.50 0.1940 0.1180

Saturn 39936-05-14 16:19 G 16307518.01 16307518.18 16307518.35 0.0281 0.0121

Saturn 39936-08-11 16:19 G 16307607.00 16307607.18 16307607.37 0.0282 0.0084

Jupiter 39939-02-14 08:53 G 16308523.77 16308523.87 16308523.98 0.0519 0.0281

Jupiter 39939-05-14 13:12 G 16308612.95 16308613.05 16308613.16 0.0518 0.0309

Moon 39940-07-25 12:14 G 16309050.92 16309051.01 16309051.11 0.2646 0.1238

Earth 39940-07-25 12:29 G 16309050.93 16309051.02 16309051.12 0.2652 0.1258 *

Mars 39941-03-08 20:24 G 16309277.20 16309277.35 16309277.51 0.1599 0.0644

Uranus 39942-04-04 03:22 G 16309668.59 16309668.64 16309668.71 0.0143 0.0126

Uranus 39942-07-01 06:58 G 16309756.71 16309756.79 16309756.88 0.0143 0.0104

Uranus 39942-09-27 10:19 G 16309844.83 16309844.93 16309845.04 0.0143 0.0084

Uranus 39942-12-24 13:55 G 16309932.97 16309933.08 16309933.20 0.0143 0.0062

Uranus 39943-03-22 17:31 G 16310021.10 16310021.23 16310021.36 0.0143 0.0041

Venus 39943-05-15 01:12 G 16310074.48 16310074.55 16310074.62 0.3682 0.3233

Uranus 39943-06-18 21:07 G 16310109.25 16310109.38 16310109.51 0.0143 0.0020

Uranus 39943-09-15 00:29 G 16310197.39 16310197.52 16310197.66 0.0143 0.0005

Uranus 39943-12-12 04:05 G 16310285.54 16310285.67 16310285.80 0.0143 0.0024

Uranus 39944-03-09 07:41 G 16310373.70 16310373.82 16310373.95 0.0143 0.0045

Uranus 39944-06-05 11:17 G 16310461.85 16310461.97 16310462.09 0.0143 0.0067

Uranus 39944-09-01 14:53 G 16310550.02 16310550.12 16310550.23 0.0143 0.0089

Uranus 39944-11-28 18:29 G 16310638.19 16310638.27 16310638.36 0.0144 0.0111

Uranus 39945-02-24 22:05 G 16310726.38 16310726.42 16310726.47 0.0144 0.0133

Jupiter 39945-04-09 08:38 G 16310769.72 16310769.86 16310770.01 0.0506 0.0323

Venus 39948-11-28 08:10 G 16312098.74 16312098.84 16312098.95 0.3683 0.2606

Saturn 39949-03-29 02:38 G 16312219.54 16312219.61 16312219.68 0.0283 0.0238

Saturn 39949-06-25 13:26 G 16312307.94 16312308.06 16312308.18 0.0281 0.0101

Saturn 39949-09-22 00:14 G 16312396.38 16312396.51 16312396.64 0.0280 0.0036

Saturn 39949-12-19 11:02 G 16312484.86 16312484.96 16312485.07 0.0279 0.0170

Mars 39950-07-29 22:34 G 16312707.28 16312707.44 16312707.59 0.1597 0.0678

Jupiter 39950-12-03 13:55 G 16312834.01 16312834.08 16312834.15 0.0520 0.0422

Jupiter 39951-03-02 18:00 G 16312923.14 16312923.25 16312923.37 0.0518 0.0168

Moon 39953-07-28 05:02 G 16313801.60 16313801.71 16313801.81 0.2650 0.0186

Earth 39953-07-28 05:31 G 16313801.62 16313801.73 16313801.84 0.2652 0.0007 *

Mars 39955-04-07 05:46 G 16314419.72 16314419.74 16314419.76 0.1933 0.1886

Moon 39957-01-25 00:14 G 16315078.45 16315078.51 16315078.57 0.2673 0.2475

Earth 39957-01-24 23:46 G 16315078.48 16315078.49 16315078.50 0.2679 0.2672 *

Jupiter 39957-04-26 18:14 G 16315170.11 16315170.26 16315170.40 0.0507 0.0318

Jupiter 39962-12-19 23:02 G 16317233.34 16317233.46 16317233.59 0.0519 0.0029

Mars 39964-08-27 13:41 G 16317849.96 16317850.07 16317850.19 0.1937 0.0440

Saturn 39965-10-01 11:31 G 16318249.86 16318249.98 16318250.12 0.0281 0.0204

Saturn 39965-12-29 11:46 G 16318338.80 16318338.99 16318339.18 0.0282 0.0005

Saturn 39966-03-28 12:00 G 16318427.87 16318428.00 16318428.13 0.0283 0.0206

Moon 39966-07-30 21:50 G 16318552.32 16318552.41 16318552.51 0.2654 0.1199

Earth 39966-07-30 22:34 G 16318552.34 16318552.44 16318552.53 0.2651 0.1247 *

Jupiter 39969-02-12 14:53 G 16319479.94 16319480.12 16319480.31 0.0507 0.0114

Moon 39970-01-28 08:53 G 16319829.71 16319829.87 16319830.04 0.2674 0.0372

Earth 39970-01-28 09:50 G 16319829.75 16319829.91 16319830.07 0.2680 0.0599 *

Moon 39973-07-24 00:29 G 16321102.46 16321102.52 16321102.57 0.2646 0.2206

Earth 39973-07-24 00:14 G 16321102.46 16321102.51 16321102.57 0.2653 0.2248 *

Venus 39973-10-24 17:31 G 16321195.22 16321195.23 16321195.24 0.3689 0.3664

Mars 39974-01-17 21:50 G 16321280.31 16321280.41 16321280.51 0.1939 0.1003

Jupiter 39974-10-08 03:50 G 16321543.53 16321543.66 16321543.78 0.0519 0.0118

Jupiter 39975-01-05 07:55 G 16321632.78 16321632.83 16321632.88 0.0517 0.0470

Saturn 39978-11-12 15:07 G 16323040.02 16323040.13 16323040.24 0.0282 0.0151

Saturn 39979-02-09 01:55 G 16323128.45 16323128.58 16323128.71 0.0281 0.0017

Saturn 39979-05-08 12:43 G 16323216.92 16323217.03 16323217.15 0.0280 0.0122

Venus 39979-05-10 09:22 G 16323218.80 16323218.89 16323218.98 0.3688 0.1684

Moon 39979-08-02 15:22 G 16323303.10 16323303.14 16323303.18 0.2658 0.2466

Earth 39979-08-02 15:36 G 16323303.11 16323303.15 16323303.18 0.2651 0.2497 *

Saturn 39979-08-04 23:31 G 16323305.44 16323305.48 16323305.53 0.0279 0.0256

Mars 39980-09-06 21:07 G 16323704.24 16323704.38 16323704.52 0.1599 0.0855

Jupiter 39980-12-01 11:17 G 16323789.78 16323789.97 16323790.15 0.0507 0.0099

Uranus 39982-11-07 10:34 G 16324495.88 16324495.94 16324496.00 0.0136 0.0129

Uranus 39983-02-03 18:00 G 16324584.12 16324584.25 16324584.38 0.0135 0.0102

Uranus 39983-05-03 01:26 G 16324672.40 16324672.56 16324672.72 0.0135 0.0075

Uranus 39983-07-30 08:38 G 16324760.69 16324760.86 16324761.05 0.0135 0.0048

Uranus 39983-10-26 16:05 G 16324848.98 16324849.17 16324849.36 0.0135 0.0021

Uranus 39984-01-22 23:31 G 16324937.29 16324937.48 16324937.67 0.0135 0.0006

Uranus 39984-04-20 06:43 G 16325025.59 16325025.78 16325025.97 0.0135 0.0032

Uranus 39984-07-17 13:55 G 16325113.91 16325114.08 16325114.26 0.0135 0.0058

Uranus 39984-10-13 21:07 G 16325202.23 16325202.38 16325202.53 0.0135 0.0084

Venus 39984-11-23 01:12 G 16325242.44 16325242.55 16325242.65 0.3688 0.0352

Uranus 39985-01-10 04:05 G 16325290.57 16325290.67 16325290.79 0.0135 0.0110

Moon 39986-07-26 17:02 G 16325853.11 16325853.21 16325853.30 0.2646 0.1104

Earth 39986-07-26 17:17 G 16325853.12 16325853.22 16325853.32 0.2652 0.1001 *

Jupiter 39986-07-27 08:38 G 16325853.75 16325853.86 16325853.97 0.0519 0.0260

Jupiter 39986-10-24 12:43 G 16325942.94 16325943.03 16325943.13 0.0517 0.0328

Mars 39990-01-27 23:02 G 16327134.30 16327134.46 16327134.62 0.1597 0.0474

Venus 39990-06-08 17:02 G 16327266.13 16327266.21 16327266.29 0.3687 0.2394

Neptune 39992-05-08 02:24 G 16327965.57 16327965.60 16327965.65 0.0089 0.0084

Neptune 39992-08-04 03:50 G 16328053.60 16328053.66 16328053.73 0.0089 0.0076

Jupiter 39992-09-19 07:55 G 16328099.69 16328099.83 16328099.98 0.0507 0.0304

Neptune 39992-10-31 05:02 G 16328141.63 16328141.71 16328141.80 0.0089 0.0069

Neptune 39993-01-27 06:14 G 16328229.67 16328229.76 16328229.86 0.0089 0.0062

Neptune 39993-04-25 07:41 G 16328317.72 16328317.82 16328317.92 0.0089 0.0054

Neptune 39993-07-22 08:53 G 16328405.76 16328405.87 16328405.99 0.0089 0.0047

Neptune 39993-10-18 10:05 G 16328493.81 16328493.92 16328494.04 0.0089 0.0039

Neptune 39994-01-14 11:31 G 16328581.86 16328581.98 16328582.10 0.0089 0.0032

Neptune 39994-04-12 12:43 G 16328669.91 16328670.03 16328670.16 0.0089 0.0025

Neptune 39994-07-09 13:55 G 16328757.96 16328758.08 16328758.22 0.0089 0.0018

Neptune 39994-10-05 15:22 G 16328846.01 16328846.14 16328846.27 0.0089 0.0010

Neptune 39995-01-01 16:34 G 16328934.06 16328934.19 16328934.33 0.0089 0.0003

Saturn 39995-02-18 08:10 G 16328981.81 16328981.84 16328981.89 0.0280 0.0273

Neptune 39995-03-30 18:00 G 16329022.11 16329022.25 16329022.38 0.0089 0.0006

Saturn 39995-05-18 08:24 G 16329070.67 16329070.85 16329071.04 0.0281 0.0070

Neptune 39995-06-26 19:12 G 16329110.17 16329110.30 16329110.43 0.0089 0.0013

Saturn 39995-08-15 08:24 G 16329159.69 16329159.85 16329160.02 0.0282 0.0135

Neptune 39995-09-22 20:24 G 16329198.23 16329198.35 16329198.48 0.0089 0.0020

Neptune 39995-12-19 21:36 G 16329286.28 16329286.40 16329286.53 0.0089 0.0028

Neptune 39996-03-16 23:02 G 16329374.34 16329374.46 16329374.58 0.0089 0.0035

Neptune 39996-06-13 00:14 G 16329462.40 16329462.51 16329462.63 0.0089 0.0043

Neptune 39996-09-09 01:41 G 16329550.46 16329550.57 16329550.68 0.0088 0.0050

Neptune 39996-12-06 02:53 G 16329638.53 16329638.62 16329638.73 0.0088 0.0057

Neptune 39997-03-04 04:19 G 16329726.59 16329726.68 16329726.77 0.0088 0.0065

Neptune 39997-05-31 05:17 G 16329814.66 16329814.72 16329814.81 0.0088 0.0073

Neptune 39997-08-27 06:43 G 16329902.73 16329902.78 16329902.84 0.0088 0.0080

Neptune 39997-11-23 07:55 G 16329990.83 16329990.83 16329990.86 0.0088 0.0088

Pluto 39998-02-12 03:07 G 16330071.57 16330071.63 16330071.70 0.0069 0.0060

Pluto 39998-05-11 03:36 G 16330159.57 16330159.65 16330159.75 0.0069 0.0050

Jupiter 39998-05-15 12:58 G 16330163.97 16330164.04 16330164.12 0.0520 0.0409

Pluto 39998-08-07 04:05 G 16330247.57 16330247.67 16330247.78 0.0069 0.0040

Jupiter 39998-08-12 17:17 G 16330253.10 16330253.22 16330253.34 0.0518 0.0180

Pluto 39998-11-03 04:48 G 16330335.58 16330335.70 16330335.82 0.0069 0.0029

Pluto 39999-01-30 05:17 G 16330423.60 16330423.72 16330423.85 0.0069 0.0019

Pluto 39999-04-28 05:46 G 16330511.61 16330511.74 16330511.88 0.0069 0.0009

Pluto 39999-07-25 06:29 G 16330599.64 16330599.77 16330599.90 0.0069 0.0002

Moon 39999-07-29 09:36 G 16330603.79 16330603.90 16330604.01 0.2652 0.0214

Earth 39999-07-29 10:19 G 16330603.82 16330603.93 16330604.03 0.2652 0.0260 *

Pluto 39999-10-21 06:58 G 16330687.66 16330687.79 16330687.92 0.0069 0.0012

Venus 39999-12-20 02:38 G 16330747.47 16330747.61 16330747.75 0.3683 0.1295

Pluto 40000-01-17 07:26 G 16330775.69 16330775.81 16330775.94 0.0070 0.0023

Pluto 40000-04-14 07:55 G 16330863.72 16330863.83 16330863.95 0.0070 0.0034

Pluto 40000-07-11 08:38 G 16330951.76 16330951.86 16330951.96 0.0070 0.0044

Pluto 40000-10-07 08:53 G 16331039.80 16331039.87 16331039.96 0.0070 0.0055

41ST MILLENNIUM CE

This is a list of transits of Mercury in the 41st millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Pluto 40001-01-03 09:22 G 16331127.86 16331127.89 16331127.95 0.0070 0.0066

Earth 40003-01-26 06:43 G 16331880.68 16331880.78 16331880.88 0.2679 0.2069

Moon 40003-01-26 06:58 G 16331880.69 16331880.79 16331880.89 0.2673 0.2123 *

Mars 40004-02-26 13:41 G 16332276.97 16332277.07 16332277.18 0.1937 0.0608

Jupiter 40004-10-06 18:00 G 16332500.12 16332500.25 16332500.39 0.0508 0.0346

Saturn 40008-03-31 16:48 G 16333772.11 16333772.20 16333772.29 0.0283 0.0202

Saturn 40008-06-28 03:36 G 16333860.52 16333860.65 16333860.78 0.0282 0.0064

Saturn 40008-09-24 14:24 G 16333948.98 16333949.10 16333949.23 0.0280 0.0072

Saturn 40008-12-22 01:12 G 16334037.47 16334037.55 16334037.64 0.0279 0.0207

Jupiter 40010-05-31 22:05 G 16334563.29 16334563.42 16334563.55 0.0519 0.0037

Moon 40012-07-31 02:38 G 16335354.52 16335354.61 16335354.70 0.2655 0.1374

Earth 40012-07-31 03:07 G 16335354.55 16335354.63 16335354.72 0.2651 0.1497 *

Mars 40013-07-18 21:50 G 16335707.31 16335707.41 16335707.51 0.1939 0.0842

Moon 40016-01-29 15:50 G 16336632.01 16336632.16 16336632.31 0.2674 0.1173

Earth 40016-01-29 17:02 G 16336632.06 16336632.21 16336632.35 0.2680 0.1197 *

Jupiter 40016-07-25 14:24 G 16336809.92 16336810.10 16336810.28 0.0507 0.0133

Moon 40019-07-25 05:02 G 16337904.64 16337904.71 16337904.78 0.2646 0.2001

Earth 40019-07-25 05:02 G 16337904.64 16337904.71 16337904.78 0.2653 0.1993 *

Mars 40020-03-07 21:50 G 16338131.29 16338131.41 16338131.53 0.1599 0.1069

Jupiter 40022-03-20 03:07 G 16338873.50 16338873.63 16338873.75 0.0519 0.0103

Jupiter 40022-06-17 07:12 G 16338962.77 16338962.80 16338962.85 0.0517 0.0488

Saturn 40024-10-04 04:19 G 16339802.52 16339802.68 16339802.84 0.0281 0.0150

Saturn 40025-01-01 04:19 G 16339891.49 16339891.68 16339891.87 0.0282 0.0054

Saturn 40025-03-31 04:19 G 16339980.61 16339980.68 16339980.75 0.0283 0.0259

Uranus 40026-04-24 10:05 G 16340369.86 16340369.92 16340369.99 0.0143 0.0124

Uranus 40026-07-21 13:26 G 16340457.98 16340458.06 16340458.16 0.0143 0.0103

Uranus 40026-10-17 17:02 G 16340546.11 16340546.21 16340546.32 0.0143 0.0082

Uranus 40027-01-13 20:38 G 16340634.24 16340634.36 16340634.48 0.0143 0.0060

Uranus 40027-04-12 00:14 G 16340722.38 16340722.51 16340722.63 0.0143 0.0039

Uranus 40027-07-09 03:36 G 16340810.52 16340810.65 16340810.78 0.0143 0.0018

Uranus 40027-10-05 07:12 G 16340898.67 16340898.80 16340898.93 0.0143 0.0004

Uranus 40028-01-01 10:48 G 16340986.82 16340986.95 16340987.08 0.0143 0.0026

Uranus 40028-03-29 14:24 G 16341074.97 16341075.10 16341075.22 0.0143 0.0047

Jupiter 40028-05-13 11:02 G 16341119.77 16341119.96 16341120.14 0.0507 0.0073

Uranus 40028-06-25 17:46 G 16341163.13 16341163.24 16341163.36 0.0143 0.0069

Uranus 40028-09-21 21:22 G 16341251.29 16341251.39 16341251.50 0.0143 0.0091

Uranus 40028-12-19 00:58 G 16341339.47 16341339.54 16341339.63 0.0144 0.0113

Uranus 40029-03-17 04:34 G 16341427.66 16341427.69 16341427.74 0.0144 0.0136

Mars 40029-07-29 00:00 G 16341561.33 16341561.50 16341561.66 0.1597 0.0255

Venus 40030-05-31 15:07 G 16341868.07 16341868.13 16341868.18 0.3689 0.2968

Moon 40032-07-26 21:36 G 16342655.29 16342655.40 16342655.50 0.2647 0.0778

Earth 40032-07-26 22:05 G 16342655.31 16342655.42 16342655.52 0.2652 0.0759 *

Jupiter 40034-01-06 07:41 G 16343183.72 16343183.82 16343183.94 0.0519 0.0246

Jupiter 40034-04-05 12:00 G 16343272.91 16343273.00 16343273.10 0.0517 0.0342

Venus 40035-12-15 06:43 G 16343891.68 16343891.78 16343891.88 0.3688 0.0964

Saturn 40037-08-18 18:14 G 16344504.21 16344504.26 16344504.31 0.0284 0.0254

Saturn 40037-11-15 05:02 G 16344592.60 16344592.71 16344592.83 0.0283 0.0116

Saturn 40038-02-11 16:05 G 16344681.04 16344681.17 16344681.30 0.0281 0.0023

Saturn 40038-05-11 02:53 G 16344769.51 16344769.62 16344769.73 0.0280 0.0158

Mars 40038-12-19 01:41 G 16344991.56 16344991.57 16344991.59 0.1595 0.1585

Jupiter 40040-03-01 06:58 G 16345429.64 16345429.79 16345429.94 0.0507 0.0290

Venus 40041-06-29 22:34 G 16345915.34 16345915.44 16345915.54 0.3688 0.1077

Mars 40043-08-27 13:41 G 16346703.97 16346704.07 16346704.18 0.1936 0.0764

Moon 40045-07-29 14:10 G 16347405.99 16347406.09 16347406.20 0.2652 0.0354

Earth 40045-07-29 14:53 G 16347406.02 16347406.12 16347406.23 0.2652 0.0498 *

Jupiter 40045-10-25 12:43 G 16347493.95 16347494.03 16347494.11 0.0519 0.0387

Jupiter 40046-01-22 16:48 G 16347583.09 16347583.20 16347583.32 0.0517 0.0200

Venus 40047-01-13 14:38 G 16347939.06 16347939.11 16347939.16 0.3687 0.3147

Moon 40049-01-26 13:26 G 16348682.92 16348683.06 16348683.20 0.2673 0.1435

Earth 40049-01-26 13:41 G 16348682.94 16348683.07 16348683.21 0.2679 0.1472 *

Jupiter 40051-12-19 03:36 G 16349739.62 16349739.65 16349739.69 0.0506 0.0495

Jupiter 40052-03-18 17:17 G 16349830.10 16349830.22 16349830.35 0.0508 0.0364

Mars 40053-01-16 21:50 G 16350134.30 16350134.41 16350134.51 0.1939 0.0696

Saturn 40054-02-21 00:43 G 16350534.42 16350534.53 16350534.66 0.0280 0.0219

Saturn 40054-05-21 00:58 G 16350623.36 16350623.54 16350623.73 0.0281 0.0017

Saturn 40054-08-18 00:58 G 16350712.41 16350712.54 16350712.69 0.0282 0.0189

Venus 40056-07-26 04:19 G 16351420.53 16351420.68 16351420.83 0.3683 0.0671

Jupiter 40057-11-10 21:22 G 16351893.26 16351893.39 16351893.52 0.0518 0.0051

Moon 40058-08-01 07:26 G 16352156.73 16352156.81 16352156.89 0.2656 0.1747

Earth 40058-08-01 07:55 G 16352156.75 16352156.83 16352156.91 0.2651 0.1744 *

Mars 40059-09-06 22:34 G 16352558.34 16352558.44 16352558.54 0.1599 0.1275

Moon 40062-01-29 22:48 G 16353434.32 16353434.45 16353434.59 0.2674 0.1529

Earth 40062-01-30 00:00 G 16353434.38 16353434.50 16353434.62 0.2680 0.1791 *

Jupiter 40064-01-05 14:10 G 16354139.91 16354140.09 16354140.26 0.0508 0.0158

Moon 40065-07-25 09:36 G 16354706.82 16354706.90 16354706.98 0.2646 0.1760

Earth 40065-07-25 09:50 G 16354706.83 16354706.91 16354706.99 0.2653 0.1745 *

Uranus 40066-11-27 17:02 G 16355197.15 16355197.21 16355197.30 0.0136 0.0124

Uranus 40067-02-24 00:29 G 16355285.40 16355285.52 16355285.67 0.0136 0.0097

Saturn 40067-04-04 06:43 G 16355324.67 16355324.78 16355324.88 0.0283 0.0166

Uranus 40067-05-23 07:55 G 16355373.68 16355373.83 16355374.01 0.0135 0.0070

Saturn 40067-07-01 17:31 G 16355413.10 16355413.23 16355413.36 0.0282 0.0028

Uranus 40067-08-19 15:36 G 16355461.97 16355462.15 16355462.33 0.0135 0.0043

Saturn 40067-09-28 04:19 G 16355501.56 16355501.68 16355501.80 0.0280 0.0109

Uranus 40067-11-15 22:48 G 16355550.26 16355550.45 16355550.65 0.0135 0.0016

Saturn 40067-12-25 15:07 G 16355590.07 16355590.13 16355590.20 0.0279 0.0244

Uranus 40068-02-12 06:14 G 16355638.57 16355638.76 16355638.95 0.0135 0.0011

Uranus 40068-05-10 13:26 G 16355726.88 16355727.06 16355727.25 0.0135 0.0037

Uranus 40068-08-06 20:38 G 16355815.19 16355815.36 16355815.53 0.0135 0.0064

Uranus 40068-11-03 03:36 G 16355903.52 16355903.65 16355903.80 0.0135 0.0090

Mars 40069-01-27 00:29 G 16355988.35 16355988.52 16355988.69 0.1597 0.0053

Uranus 40069-01-30 10:34 G 16355991.86 16355991.94 16355992.06 0.0135 0.0116

Jupiter 40069-08-30 02:10 G 16356203.46 16356203.59 16356203.71 0.0519 0.0093

Jupiter 40069-11-27 06:29 G 16356292.73 16356292.77 16356292.80 0.0517 0.0495

Jupiter 40075-10-24 10:19 G 16358449.74 16358449.93 16358450.11 0.0507 0.0056

Neptune 40076-07-15 00:14 G 16358714.50 16358714.51 16358714.55 0.0089 0.0088

Neptune 40076-10-11 03:50 G 16358802.58 16358802.66 16358802.78 0.0089 0.0077

Neptune 40077-01-07 07:41 G 16358890.70 16358890.82 16358890.97 0.0089 0.0066

Neptune 40077-04-05 11:46 G 16358978.84 16358978.99 16358979.14 0.0089 0.0054

Neptune 40077-07-02 15:22 G 16359066.97 16359067.14 16359067.31 0.0089 0.0043

Neptune 40077-09-28 18:58 G 16359155.11 16359155.29 16359155.48 0.0089 0.0032

Neptune 40077-12-25 22:48 G 16359243.26 16359243.45 16359243.64 0.0089 0.0021

Neptune 40078-03-24 02:24 G 16359331.41 16359331.60 16359331.80 0.0089 0.0010

Mars 40078-06-19 02:24 G 16359418.52 16359418.60 16359418.69 0.1595 0.1371

Neptune 40078-06-20 06:00 G 16359419.56 16359419.75 16359419.95 0.0089 0.0003

Moon 40078-07-28 02:10 G 16359457.48 16359457.59 16359457.69 0.2649 0.0589

Earth 40078-07-28 02:38 G 16359457.51 16359457.61 16359457.72 0.2652 0.0501 *

Neptune 40078-09-16 09:36 G 16359507.71 16359507.90 16359508.10 0.0089 0.0013

Neptune 40078-12-13 13:12 G 16359595.87 16359596.05 16359596.25 0.0089 0.0024

Neptune 40079-03-11 16:48 G 16359684.03 16359684.20 16359684.39 0.0089 0.0035

Neptune 40079-06-07 20:24 G 16359772.20 16359772.35 16359772.53 0.0089 0.0046

Neptune 40079-09-04 00:00 G 16359860.36 16359860.50 16359860.66 0.0089 0.0057

Neptune 40079-12-01 03:22 G 16359948.54 16359948.64 16359948.79 0.0089 0.0068

Neptune 40080-02-27 07:26 G 16360036.73 16360036.81 16360036.90 0.0089 0.0078

Jupiter 40081-06-18 06:58 G 16360513.68 16360513.79 16360513.90 0.0519 0.0233

Jupiter 40081-09-15 11:17 G 16360602.88 16360602.97 16360603.06 0.0518 0.0356

Mars 40083-02-25 13:41 G 16361130.97 16361131.07 16361131.17 0.1936 0.0920

Saturn 40083-10-07 21:07 G 16361355.20 16361355.38 16361355.56 0.0281 0.0092

Saturn 40084-01-04 21:07 G 16361444.21 16361444.38 16361444.56 0.0282 0.0112

Pluto 40084-03-17 18:58 G 16361517.26 16361517.29 16361517.36 0.0075 0.0072

Pluto 40084-06-13 21:36 G 16361605.28 16361605.40 16361605.56 0.0075 0.0052

Pluto 40084-09-10 00:29 G 16361693.35 16361693.52 16361693.70 0.0075 0.0032

Pluto 40084-12-07 03:07 G 16361781.44 16361781.63 16361781.83 0.0075 0.0013

Pluto 40085-03-05 05:46 G 16361869.54 16361869.74 16361869.94 0.0075 0.0007

Pluto 40085-06-01 08:10 G 16361957.66 16361957.84 16361958.03 0.0075 0.0027

Pluto 40085-08-28 10:48 G 16362045.80 16362045.95 16362046.11 0.0074 0.0046

Pluto 40085-11-24 12:58 G 16362133.97 16362134.04 16362134.15 0.0074 0.0065

Venus 40087-01-05 12:29 G 16362540.94 16362541.02 16362541.10 0.3689 0.2245

Jupiter 40087-08-12 06:43 G 16362759.62 16362759.78 16362759.94 0.0507 0.0263

Moon 40091-07-30 18:58 G 16364208.19 16364208.29 16364208.39 0.2652 0.0703

Earth 40091-07-30 19:41 G 16364208.22 16364208.32 16364208.42 0.2651 0.0747 *

Mars 40092-07-17 21:50 G 16364561.30 16364561.41 16364561.52 0.1939 0.0522

Venus 40092-07-21 04:19 G 16364564.57 16364564.68 16364564.78 0.3688 0.0239

Jupiter 40093-04-06 11:46 G 16364823.91 16364823.99 16364824.08 0.0519 0.0375

Jupiter 40093-07-04 16:05 G 16364913.06 16364913.17 16364913.29 0.0517 0.0213

Moon 40095-01-27 20:10 G 16365485.19 16365485.34 16365485.50 0.2673 0.0977

Earth 40095-01-27 20:53 G 16365485.21 16365485.37 16365485.52 0.2680 0.0878 *

Saturn 40096-08-21 08:10 G 16366056.76 16366056.84 16366056.92 0.0284 0.0218

Saturn 40096-11-17 19:12 G 16366145.17 16366145.30 16366145.42 0.0283 0.0079

Saturn 40097-02-14 06:00 G 16366233.62 16366233.75 16366233.88 0.0281 0.0059

Saturn 40097-05-13 16:48 G 16366322.11 16366322.20 16366322.30 0.0280 0.0196

Venus 40098-02-03 20:10 G 16366588.25 16366588.34 16366588.43 0.3687 0.1817

Mars 40099-03-07 23:17 G 16366985.41 16366985.47 16366985.52 0.1599 0.1491

Jupiter 40099-05-31 02:10 G 16367069.55 16367069.59 16367069.65 0.0507 0.0485

Jupiter 40099-08-29 16:05 G 16367160.05 16367160.17 16367160.30 0.0508 0.0375

Moon 40104-08-02 12:14 G 16368958.94 16368959.01 16368959.09 0.2657 0.1903

Earth 40104-08-02 12:43 G 16368958.96 16368959.03 16368959.10 0.2651 0.1996 *

Jupiter 40105-01-24 16:48 G 16369134.19 16369134.20 16369134.21 0.0520 0.0516

Jupiter 40105-04-23 20:53 G 16369223.25 16369223.37 16369223.50 0.0518 0.0071

Venus 40107-08-17 22:34 G 16370069.38 16370069.44 16370069.50 0.3682 0.3332

Moon 40108-02-01 05:31 G 16370236.65 16370236.73 16370236.81 0.2676 0.2300

Earth 40108-02-01 06:58 G 16370236.72 16370236.79 16370236.86 0.2680 0.2380 *

Mars 40108-07-29 01:12 G 16370415.38 16370415.55 16370415.72 0.1597 0.0163

Uranus 40110-02-16 13:26 G 16370983.06 16370983.06 16370983.09 0.0142 0.0142

Uranus 40110-05-15 17:02 G 16371071.15 16371071.21 16371071.28 0.0143 0.0120

Uranus 40110-08-11 20:24 G 16371159.27 16371159.35 16371159.45 0.0143 0.0100

Uranus 40110-11-08 00:00 G 16371247.39 16371247.50 16371247.61 0.0143 0.0078

Uranus 40111-02-04 03:36 G 16371335.53 16371335.65 16371335.77 0.0143 0.0057

Uranus 40111-05-03 06:58 G 16371423.67 16371423.79 16371423.92 0.0143 0.0036

Jupiter 40111-06-18 12:58 G 16371469.86 16371470.04 16371470.22 0.0508 0.0170

Moon 40111-07-27 14:24 G 16371509.01 16371509.10 16371509.18 0.2646 0.1492

Earth 40111-07-27 14:24 G 16371509.02 16371509.10 16371509.19 0.2652 0.1495 *

Uranus 40111-07-30 10:34 G 16371511.81 16371511.94 16371512.07 0.0143 0.0015

Uranus 40111-10-26 14:10 G 16371599.95 16371600.09 16371600.22 0.0143 0.0008

Uranus 40112-01-22 17:31 G 16371688.10 16371688.23 16371688.36 0.0143 0.0029

Uranus 40112-04-19 21:07 G 16371776.26 16371776.38 16371776.51 0.0143 0.0050

Uranus 40112-07-17 00:43 G 16371864.42 16371864.53 16371864.65 0.0143 0.0072

Uranus 40112-10-13 04:05 G 16371952.58 16371952.67 16371952.78 0.0143 0.0095

Uranus 40113-01-09 07:41 G 16372040.76 16372040.82 16372040.91 0.0143 0.0117

Saturn 40113-02-24 18:29 G 16372087.12 16372087.27 16372087.43 0.0280 0.0156

Venus 40113-03-03 06:00 G 16372093.64 16372093.75 16372093.85 0.3683 0.2603

Uranus 40113-04-07 11:17 G 16372128.95 16372128.97 16372129.02 0.0144 0.0139

Saturn 40113-05-24 18:29 G 16372176.09 16372176.27 16372176.46 0.0281 0.0047

Saturn 40113-08-21 18:29 G 16372265.19 16372265.27 16372265.36 0.0282 0.0251

Jupiter 40117-02-10 01:26 G 16373533.43 16373533.56 16373533.68 0.0518 0.0082

Jupiter 40117-05-10 05:31 G 16373622.71 16373622.73 16373622.75 0.0517 0.0507

Mars 40117-12-19 03:07 G 16373845.52 16373845.63 16373845.75 0.1595 0.1160

Mars 40122-08-27 13:41 G 16375557.98 16375558.07 16375558.17 0.1936 0.1098

Jupiter 40123-04-06 09:36 G 16375779.71 16375779.90 16375780.09 0.0507 0.0036

Moon 40124-07-29 06:43 G 16376259.68 16376259.78 16376259.89 0.2650 0.0348

Earth 40124-07-29 07:26 G 16376259.70 16376259.81 16376259.92 0.2652 0.0252 *

Saturn 40126-01-09 09:50 G 16376788.87 16376788.91 16376788.96 0.0284 0.0268

Saturn 40126-04-07 20:53 G 16376877.25 16376877.37 16376877.49 0.0283 0.0128

Saturn 40126-07-05 07:41 G 16376965.69 16376965.82 16376965.95 0.0282 0.0014

Saturn 40126-10-01 18:43 G 16377054.17 16377054.28 16377054.39 0.0281 0.0148

Jupiter 40128-11-29 06:00 G 16377843.64 16377843.75 16377843.86 0.0519 0.0224

Jupiter 40129-02-26 10:19 G 16377932.84 16377932.93 16377933.02 0.0517 0.0364

Mars 40132-01-17 21:50 G 16378988.30 16378988.41 16378988.52 0.1939 0.0354

Jupiter 40135-01-23 05:31 G 16380089.58 16380089.73 16380089.90 0.0507 0.0251

Moon 40137-07-31 23:46 G 16381010.39 16381010.49 16381010.59 0.2653 0.0881

Earth 40137-08-01 00:29 G 16381010.42 16381010.52 16381010.61 0.2652 0.1003 *

Venus 40138-01-27 18:14 G 16381190.23 16381190.26 16381190.29 0.3689 0.3522

Jupiter 40140-09-17 10:48 G 16382153.86 16382153.95 16382154.04 0.0520 0.0366

Jupiter 40140-12-15 15:07 G 16382243.01 16382243.13 16382243.24 0.0518 0.0223

Moon 40141-01-29 03:22 G 16382287.47 16382287.64 16382287.80 0.2673 0.0331

Earth 40141-01-29 03:50 G 16382287.50 16382287.66 16382287.83 0.2680 0.0269 *

Mars 40141-06-09 05:46 G 16382418.70 16382418.74 16382418.78 0.1941 0.1808

Saturn 40142-07-14 15:22 G 16382819.03 16382819.14 16382819.25 0.0279 0.0226

Saturn 40142-10-11 15:22 G 16382907.95 16382908.14 16382908.33 0.0281 0.0025

Saturn 40143-01-08 15:22 G 16382996.99 16382997.14 16382997.28 0.0282 0.0179

Venus 40143-08-13 10:05 G 16383213.82 16383213.92 16383214.01 0.3688 0.1525

Moon 40144-07-25 02:24 G 16383560.56 16383560.60 16383560.64 0.2646 0.2396

Earth 40144-07-25 02:10 G 16383560.56 16383560.59 16383560.63 0.2653 0.2485 *

Jupiter 40146-11-11 02:10 G 16384399.51 16384399.59 16384399.66 0.0506 0.0460

Jupiter 40147-02-09 15:36 G 16384490.04 16384490.15 16384490.27 0.0508 0.0397

Mars 40148-01-28 01:55 G 16384842.42 16384842.58 16384842.75 0.1597 0.0382

Venus 40149-02-26 01:41 G 16385237.47 16385237.57 16385237.68 0.3688 0.0532

Moon 40150-08-03 17:02 G 16385761.16 16385761.21 16385761.26 0.2658 0.2267

Earth 40150-08-03 17:17 G 16385761.17 16385761.22 16385761.28 0.2651 0.2248 *

Uranus 40150-12-18 23:46 G 16385898.41 16385898.49 16385898.59 0.0136 0.0119

Uranus 40151-03-17 07:12 G 16385986.67 16385986.80 16385986.95 0.0136 0.0092

Uranus 40151-06-13 14:38 G 16386074.95 16386075.11 16386075.29 0.0136 0.0065

Uranus 40151-09-09 22:05 G 16386163.24 16386163.42 16386163.61 0.0135 0.0038

Uranus 40151-12-07 05:31 G 16386251.54 16386251.73 16386251.93 0.0135 0.0011

Uranus 40152-03-04 12:43 G 16386339.85 16386340.03 16386340.23 0.0135 0.0017

Uranus 40152-05-31 20:10 G 16386428.16 16386428.34 16386428.52 0.0135 0.0043

Jupiter 40152-07-06 15:50 G 16386464.13 16386464.16 16386464.18 0.0520 0.0506

Uranus 40152-08-28 03:07 G 16386516.48 16386516.63 16386516.81 0.0135 0.0069

Jupiter 40152-10-03 19:55 G 16386553.21 16386553.33 16386553.46 0.0518 0.0081

Uranus 40152-11-24 10:19 G 16386604.80 16386604.93 16386605.07 0.0135 0.0095

Uranus 40153-02-20 17:17 G 16386693.15 16386693.22 16386693.32 0.0135 0.0121

Venus 40154-09-11 17:46 G 16387261.16 16387261.24 16387261.31 0.3687 0.2570

Saturn 40155-08-25 22:34 G 16387609.34 16387609.44 16387609.54 0.0284 0.0178

Saturn 40155-11-22 09:22 G 16387697.77 16387697.89 16387698.02 0.0283 0.0039

Saturn 40156-02-18 20:24 G 16387786.23 16387786.35 16387786.47 0.0281 0.0100

Saturn 40156-05-17 07:12 G 16387874.73 16387874.80 16387874.87 0.0280 0.0236

Neptune 40156-11-07 00:58 G 16388048.53 16388048.54 16388048.56 0.0089 0.0088

Neptune 40157-02-03 02:10 G 16388136.55 16388136.59 16388136.65 0.0089 0.0081

Neptune 40157-05-02 03:36 G 16388224.58 16388224.65 16388224.72 0.0089 0.0073

Mars 40157-06-19 03:50 G 16388272.52 16388272.66 16388272.79 0.1595 0.0951

Moon 40157-07-27 18:58 G 16388311.19 16388311.29 16388311.38 0.2647 0.1321

Earth 40157-07-27 19:12 G 16388311.20 16388311.30 16388311.39 0.2652 0.1242 *

Neptune 40157-07-29 04:48 G 16388312.62 16388312.70 16388312.79 0.0089 0.0066

Neptune 40157-10-25 06:00 G 16388400.66 16388400.75 16388400.85 0.0089 0.0059

Neptune 40158-01-21 07:26 G 16388488.70 16388488.81 16388488.92 0.0089 0.0051

Neptune 40158-04-19 08:38 G 16388576.75 16388576.86 16388576.98 0.0089 0.0044

Neptune 40158-07-16 09:50 G 16388664.80 16388664.91 16388665.04 0.0089 0.0036

Neptune 40158-10-12 11:17 G 16388752.84 16388752.97 16388753.09 0.0089 0.0029

Jupiter 40158-11-28 11:17 G 16388799.79 16388799.97 16388800.14 0.0508 0.0175

Neptune 40159-01-08 12:29 G 16388840.89 16388841.02 16388841.15 0.0089 0.0022

Neptune 40159-04-06 13:41 G 16388928.95 16388929.07 16388929.21 0.0089 0.0015

Neptune 40159-07-03 15:07 G 16389017.00 16389017.13 16389017.26 0.0089 0.0007

Neptune 40159-09-29 16:19 G 16389105.05 16389105.18 16389105.31 0.0089 0.0002

Neptune 40159-12-26 17:46 G 16389193.11 16389193.24 16389193.37 0.0089 0.0008

Neptune 40160-03-23 18:58 G 16389281.16 16389281.29 16389281.42 0.0089 0.0016

Neptune 40160-06-19 20:10 G 16389369.22 16389369.34 16389369.47 0.0089 0.0023

Neptune 40160-09-15 21:22 G 16389457.27 16389457.39 16389457.52 0.0089 0.0031

Neptune 40160-12-12 22:48 G 16389545.33 16389545.45 16389545.57 0.0088 0.0038

Neptune 40161-03-11 00:00 G 16389633.39 16389633.50 16389633.62 0.0088 0.0045

Neptune 40161-06-07 01:26 G 16389721.45 16389721.56 16389721.67 0.0088 0.0053

Neptune 40161-09-03 02:24 G 16389809.52 16389809.60 16389809.71 0.0088 0.0061

Neptune 40161-11-30 03:50 G 16389897.58 16389897.66 16389897.75 0.0088 0.0068

Mars 40162-02-25 13:41 G 16389984.98 16389985.07 16389985.15 0.1936 0.1251

Neptune 40162-02-26 05:02 G 16389985.65 16389985.71 16389985.79 0.0088 0.0076

Neptune 40162-05-25 06:29 G 16390073.73 16390073.77 16390073.82 0.0088 0.0083

Venus 40164-03-24 00:29 G 16390742.37 16390742.52 16390742.66 0.3682 0.1324

Jupiter 40164-07-23 00:43 G 16390863.41 16390863.53 16390863.66 0.0518 0.0062

Moon 40170-07-30 11:31 G 16393061.87 16393061.98 16393062.09 0.2650 0.0089

Earth 40170-07-30 12:14 G 16393061.90 16393062.01 16393062.11 0.2652 0.0115 *

Jupiter 40170-09-16 07:55 G 16393109.64 16393109.83 16393110.02 0.0508 0.0032

Mars 40171-07-18 21:36 G 16393415.29 16393415.40 16393415.51 0.1939 0.0207

Saturn 40172-02-28 13:26 G 16393639.87 16393640.06 16393640.24 0.0280 0.0084

Saturn 40172-05-27 13:12 G 16393728.88 16393729.05 16393729.22 0.0281 0.0119

Jupiter 40176-05-11 05:02 G 16395173.60 16395173.71 16395173.83 0.0519 0.0214

Jupiter 40176-08-08 09:22 G 16395262.80 16395262.89 16395262.97 0.0517 0.0373

Mars 40180-12-08 06:00 G 16396845.69 16396845.75 16396845.81 0.1941 0.1628

Jupiter 40182-07-05 04:34 G 16397419.53 16397419.69 16397419.86 0.0507 0.0238

Moon 40183-08-02 04:34 G 16397812.60 16397812.69 16397812.79 0.2655 0.1183

Earth 40183-08-02 05:02 G 16397812.62 16397812.71 16397812.81 0.2651 0.1249 *

Saturn 40185-01-12 00:29 G 16398341.44 16398341.52 16398341.60 0.0284 0.0224

Saturn 40185-04-10 11:17 G 16398429.85 16398429.97 16398430.10 0.0283 0.0085

Saturn 40185-07-07 22:19 G 16398518.30 16398518.43 16398518.56 0.0282 0.0054

Saturn 40185-10-04 09:07 G 16398606.79 16398606.88 16398606.98 0.0281 0.0192

Moon 40187-01-30 10:19 G 16399089.76 16399089.93 16399090.09 0.2674 0.0265

Earth 40187-01-30 11:02 G 16399089.79 16399089.96 16399090.12 0.2680 0.0339 *

Mars 40187-07-29 02:38 G 16399269.45 16399269.61 16399269.76 0.1597 0.0592

Jupiter 40188-02-28 09:50 G 16399483.82 16399483.91 16399483.99 0.0519 0.0361

Jupiter 40188-05-27 13:55 G 16399572.97 16399573.08 16399573.19 0.0518 0.0227

Earth 40190-07-26 06:58 G 16400362.73 16400362.79 16400362.85 0.2653 0.2230

Moon 40190-07-26 07:12 G 16400362.74 16400362.80 16400362.85 0.2646 0.2265 *

Uranus 40194-03-08 20:53 G 16401684.34 16401684.37 16401684.42 0.0142 0.0136

Jupiter 40194-04-23 00:29 G 16401729.44 16401729.52 16401729.61 0.0506 0.0452

Uranus 40194-06-05 00:29 G 16401772.45 16401772.52 16401772.60 0.0143 0.0115

Jupiter 40194-07-22 14:10 G 16401819.98 16401820.09 16401820.20 0.0508 0.0405

Uranus 40194-09-01 03:50 G 16401860.57 16401860.66 16401860.77 0.0143 0.0094

Venus 40194-09-03 15:36 G 16401863.09 16401863.15 16401863.22 0.3689 0.2807

Uranus 40194-11-28 07:26 G 16401948.70 16401948.81 16401948.92 0.0143 0.0073

Uranus 40195-02-24 10:48 G 16402036.83 16402036.95 16402037.08 0.0143 0.0052

Uranus 40195-05-23 14:24 G 16402124.97 16402125.10 16402125.23 0.0143 0.0030

Uranus 40195-08-19 18:00 G 16402213.12 16402213.25 16402213.38 0.0143 0.0009

Uranus 40195-11-15 21:36 G 16402301.26 16402301.40 16402301.53 0.0143 0.0013

Uranus 40196-02-12 00:58 G 16402389.42 16402389.54 16402389.67 0.0143 0.0035

Uranus 40196-05-10 04:34 G 16402477.57 16402477.69 16402477.81 0.0143 0.0056

Moon 40196-08-03 21:50 G 16402563.37 16402563.41 16402563.45 0.2657 0.2434

Earth 40196-08-03 22:05 G 16402563.39 16402563.42 16402563.45 0.2651 0.2498 *

Uranus 40196-08-06 08:10 G 16402565.73 16402565.84 16402565.95 0.0143 0.0078

Uranus 40196-11-02 11:31 G 16402653.90 16402653.98 16402654.09 0.0143 0.0101

Mars 40196-12-18 04:34 G 16402699.54 16402699.69 16402699.84 0.1595 0.0732

Uranus 40197-01-29 15:07 G 16402742.07 16402742.13 16402742.21 0.0143 0.0123

Jupiter 40199-12-17 14:24 G 16403794.08 16403794.10 16403794.13 0.0520 0.0504

Jupiter 40200-03-16 18:43 G 16403883.15 16403883.28 16403883.40 0.0518 0.0085

Venus 40200-03-20 07:26 G 16403886.71 16403886.81 16403886.91 0.3688 0.0793

Saturn 40201-07-18 10:48 G 16404371.80 16404371.95 16404372.12 0.0280 0.0148

Mars 40201-08-27 13:41 G 16404411.99 16404412.07 16404412.14 0.1936 0.1415

Saturn 40201-10-15 10:48 G 16404460.77 16404460.95 16404461.14 0.0281 0.0054

Saturn 40202-01-12 10:34 G 16404549.88 16404549.94 16404550.02 0.0282 0.0258

Moon 40203-07-29 23:31 G 16405113.38 16405113.48 16405113.58 0.2648 0.1001

Earth 40203-07-30 00:00 G 16405113.40 16405113.50 16405113.59 0.2652 0.0998 *

Venus 40205-10-03 23:17 G 16405910.37 16405910.47 16405910.57 0.3688 0.1247

Jupiter 40206-05-11 10:34 G 16406129.76 16406129.94 16406130.11 0.0508 0.0194

Mars 40211-01-17 21:36 G 16407842.29 16407842.40 16407842.52 0.1939 0.0082

Venus 40211-04-19 15:07 G 16407934.09 16407934.13 16407934.18 0.3687 0.3329

Jupiter 40212-01-03 23:31 G 16408193.36 16408193.48 16408193.61 0.0518 0.0059

Saturn 40214-06-02 02:24 G 16409073.57 16409073.60 16409073.64 0.0285 0.0271

Saturn 40214-08-29 13:26 G 16409161.94 16409162.06 16409162.17 0.0283 0.0130

Saturn 40214-11-26 00:14 G 16409250.38 16409250.51 16409250.64 0.0282 0.0013

Saturn 40215-02-22 11:17 G 16409338.86 16409338.97 16409339.08 0.0281 0.0147

Moon 40216-07-31 16:19 G 16409864.07 16409864.18 16409864.28 0.2650 0.0173

Earth 40216-07-31 16:48 G 16409864.09 16409864.20 16409864.31 0.2652 0.0256 *

Jupiter 40218-02-27 05:46 G 16410439.55 16410439.74 16410439.93 0.0508 0.0033

Moon 40220-01-29 07:41 G 16411140.73 16411140.82 16411140.91 0.2672 0.2220

Earth 40220-01-29 07:41 G 16411140.75 16411140.82 16411140.90 0.2679 0.2335 *

Mars 40220-06-09 05:46 G 16411272.67 16411272.74 16411272.81 0.1941 0.1491

Venus 40220-10-30 02:10 G 16411415.44 16411415.59 16411415.74 0.3683 0.0653

Jupiter 40223-10-23 04:19 G 16412503.57 16412503.68 16412503.80 0.0519 0.0200

Jupiter 40224-01-20 08:38 G 16412592.78 16412592.86 16412592.94 0.0517 0.0387

Mars 40227-01-28 03:07 G 16413696.49 16413696.63 16413696.78 0.1597 0.0801

Moon 40229-08-03 09:22 G 16414614.80 16414614.89 16414614.98 0.2656 0.1447

Earth 40229-08-03 09:50 G 16414614.82 16414614.91 16414615.00 0.2651 0.1501 *

Jupiter 40229-12-16 02:10 G 16414749.43 16414749.59 16414749.76 0.0507 0.0242

Saturn 40230-12-05 09:36 G 16415103.77 16415103.90 16415104.04 0.0279 0.0200

Saturn 40231-03-04 09:36 G 16415192.71 16415192.90 16415193.09 0.0280 0.0003

Saturn 40231-06-01 09:22 G 16415281.77 16415281.89 16415282.03 0.0281 0.0204

Moon 40233-01-31 17:02 G 16415892.05 16415892.21 16415892.37 0.2675 0.0740

Earth 40233-01-31 18:00 G 16415892.10 16415892.25 16415892.41 0.2680 0.0939 *

Uranus 40235-01-09 06:43 G 16416599.68 16416599.78 16416599.90 0.0136 0.0112

Uranus 40235-04-07 14:24 G 16416687.95 16416688.10 16416688.25 0.0136 0.0085

Uranus 40235-07-04 21:36 G 16416776.24 16416776.40 16416776.59 0.0135 0.0058

Jupiter 40235-08-11 08:38 G 16416813.77 16416813.86 16416813.95 0.0519 0.0353

Uranus 40235-10-01 05:02 G 16416864.53 16416864.71 16416864.91 0.0135 0.0032

Jupiter 40235-11-08 12:43 G 16416902.92 16416903.03 16416903.15 0.0517 0.0235

Uranus 40235-12-28 12:29 G 16416952.83 16416953.02 16416953.22 0.0135 0.0005

Uranus 40236-03-25 19:55 G 16417041.14 16417041.33 16417041.52 0.0135 0.0022

Mars 40236-06-19 05:17 G 16417126.56 16417126.72 16417126.88 0.1595 0.0523

Uranus 40236-06-22 02:53 G 16417129.45 16417129.62 16417129.81 0.0135 0.0049

Moon 40236-07-27 11:46 G 16417164.91 16417164.99 16417165.06 0.2646 0.1920

Earth 40236-07-27 11:46 G 16417164.92 16417164.99 16417165.06 0.2653 0.1985 *

Uranus 40236-09-18 10:05 G 16417217.77 16417217.92 16417218.09 0.0135 0.0075

Uranus 40236-12-15 17:17 G 16417306.11 16417306.22 16417306.36 0.0135 0.0101

Uranus 40237-03-14 00:29 G 16417394.47 16417394.52 16417394.59 0.0135 0.0127

Mars 40241-02-25 13:41 G 16418839.01 16418839.07 16418839.13 0.1936 0.1589

Neptune 40241-04-12 22:34 G 16418885.39 16418885.44 16418885.51 0.0089 0.0084

Neptune 40241-07-10 02:10 G 16418973.49 16418973.59 16418973.72 0.0089 0.0073

Jupiter 40241-10-03 22:48 G 16419059.37 16419059.45 16419059.54 0.0507 0.0448

Neptune 40241-10-06 05:46 G 16419061.62 16419061.74 16419061.90 0.0089 0.0062

Neptune 40242-01-02 09:36 G 16419149.75 16419149.90 16419150.07 0.0089 0.0051

Jupiter 40242-01-02 12:29 G 16419149.92 16419150.02 16419150.13 0.0508 0.0411 *

Neptune 40242-03-31 13:12 G 16419237.89 16419238.05 16419238.24 0.0089 0.0040

Neptune 40242-06-27 17:17 G 16419326.04 16419326.22 16419326.41 0.0089 0.0028

Neptune 40242-09-23 20:53 G 16419414.18 16419414.37 16419414.57 0.0089 0.0017

Neptune 40242-12-21 00:43 G 16419502.33 16419502.53 16419502.72 0.0089 0.0006

Neptune 40243-03-19 04:19 G 16419590.48 16419590.68 16419590.88 0.0089 0.0005

Neptune 40243-06-15 07:55 G 16419678.64 16419678.83 16419679.02 0.0089 0.0016

Neptune 40243-09-11 11:17 G 16419766.80 16419766.97 16419767.17 0.0089 0.0028

Neptune 40243-12-08 14:53 G 16419854.96 16419855.12 16419855.31 0.0089 0.0039

Saturn 40244-01-16 15:36 G 16419894.05 16419894.15 16419894.25 0.0284 0.0174

Neptune 40244-03-05 18:29 G 16419943.13 16419943.27 16419943.45 0.0089 0.0050

Saturn 40244-04-14 02:38 G 16419982.48 16419982.61 16419982.74 0.0283 0.0034

Neptune 40244-06-01 22:34 G 16420031.30 16420031.44 16420031.58 0.0089 0.0060

Saturn 40244-07-11 13:26 G 16420070.94 16420071.06 16420071.18 0.0282 0.0105

Neptune 40244-08-29 02:10 G 16420119.48 16420119.59 16420119.71 0.0089 0.0071

Saturn 40244-10-08 00:29 G 16420159.45 16420159.52 16420159.58 0.0280 0.0242

Neptune 40244-11-25 05:46 G 16420207.67 16420207.74 16420207.81 0.0089 0.0082

Pluto 40245-06-21 13:41 G 16420416.02 16420416.07 16420416.15 0.0069 0.0059

Pluto 40245-09-17 14:10 G 16420504.01 16420504.09 16420504.20 0.0069 0.0049

Pluto 40245-12-14 14:38 G 16420592.02 16420592.11 16420592.23 0.0069 0.0039

Pluto 40246-03-12 15:22 G 16420680.03 16420680.14 16420680.27 0.0069 0.0028

Pluto 40246-06-08 16:05 G 16420768.04 16420768.17 16420768.30 0.0069 0.0018

Pluto 40246-09-04 16:34 G 16420856.06 16420856.19 16420856.33 0.0069 0.0008

Pluto 40246-12-01 17:17 G 16420944.09 16420944.22 16420944.35 0.0069 0.0003

Pluto 40247-02-27 17:46 G 16421032.11 16421032.24 16421032.37 0.0069 0.0014

Pluto 40247-05-26 18:00 G 16421120.14 16421120.25 16421120.39 0.0070 0.0025

Jupiter 40247-05-30 13:12 G 16421124.02 16421124.05 16421124.08 0.0520 0.0501

Pluto 40247-08-22 18:43 G 16421208.17 16421208.28 16421208.40 0.0070 0.0035

Jupiter 40247-08-27 17:17 G 16421213.10 16421213.22 16421213.35 0.0518 0.0087

Pluto 40247-11-18 19:12 G 16421296.21 16421296.30 16421296.41 0.0070 0.0046

Pluto 40248-02-14 19:55 G 16421384.26 16421384.33 16421384.41 0.0070 0.0056

Pluto 40248-05-12 20:10 G 16421472.32 16421472.34 16421472.39 0.0070 0.0067

Moon 40249-07-30 04:05 G 16421915.57 16421915.67 16421915.77 0.2648 0.0870

Earth 40249-07-30 04:34 G 16421915.59 16421915.69 16421915.79 0.2652 0.0740 *

Mars 40250-07-18 21:36 G 16422269.29 16422269.40 16422269.52 0.1938 0.0136

Venus 40251-04-11 13:12 G 16422535.97 16422536.05 16422536.13 0.3689 0.2080

Jupiter 40253-10-21 08:38 G 16423459.68 16423459.86 16423460.03 0.0508 0.0195

Venus 40256-10-25 05:02 G 16424559.60 16424559.71 16424559.81 0.3688 0.0116

Jupiter 40259-06-15 22:05 G 16425523.29 16425523.42 16425523.54 0.0519 0.0060

Mars 40259-12-09 05:46 G 16425699.66 16425699.74 16425699.82 0.1941 0.1315

Saturn 40260-04-23 07:55 G 16425835.77 16425835.83 16425835.91 0.0279 0.0258

Saturn 40260-07-21 08:10 G 16425924.65 16425924.84 16425925.03 0.0280 0.0056

Saturn 40260-10-18 07:55 G 16426013.67 16426013.83 16426014.00 0.0281 0.0147

Venus 40262-05-10 20:53 G 16426583.28 16426583.37 16426583.45 0.3688 0.1992

Moon 40262-08-01 20:53 G 16426666.27 16426666.37 16426666.48 0.2652 0.0466

Earth 40262-08-01 21:36 G 16426666.29 16426666.40 16426666.50 0.2652 0.0506 *

Jupiter 40265-08-09 04:34 G 16427769.50 16427769.69 16427769.88 0.0507 0.0020

Moon 40266-01-29 14:38 G 16427942.99 16427943.11 16427943.23 0.2672 0.1855

Earth 40266-01-29 14:53 G 16427942.99 16427943.12 16427943.24 0.2679 0.1737 *

Mars 40266-07-29 04:05 G 16428123.54 16428123.67 16428123.80 0.1597 0.1019

Jupiter 40271-04-04 02:53 G 16429833.51 16429833.62 16429833.74 0.0519 0.0200

Jupiter 40271-07-02 07:12 G 16429922.72 16429922.80 16429922.88 0.0517 0.0388

Venus 40271-11-20 20:10 G 16430064.28 16430064.34 16430064.39 0.3682 0.3407

Saturn 40273-06-04 18:00 G 16430626.17 16430626.25 16430626.33 0.0284 0.0216

Saturn 40273-09-01 05:02 G 16430714.58 16430714.71 16430714.83 0.0283 0.0076

Saturn 40273-11-28 15:50 G 16430803.04 16430803.16 16430803.29 0.0282 0.0064

Saturn 40274-02-25 02:38 G 16430891.53 16430891.61 16430891.71 0.0281 0.0202

Moon 40275-08-04 14:10 G 16431417.00 16431417.09 16431417.17 0.2656 0.1669

Earth 40275-08-04 14:38 G 16431417.03 16431417.11 16431417.18 0.2651 0.1755 *

Mars 40275-12-19 06:00 G 16431553.58 16431553.75 16431553.91 0.1595 0.0314

Jupiter 40277-05-27 23:31 G 16432079.32 16432079.48 16432079.64 0.0507 0.0250

Venus 40277-06-06 03:36 G 16432088.55 16432088.65 16432088.76 0.3683 0.2597

Uranus 40278-03-30 04:19 G 16432385.64 16432385.68 16432385.74 0.0143 0.0130

Uranus 40278-06-26 07:55 G 16432473.75 16432473.83 16432473.92 0.0143 0.0109

Uranus 40278-09-22 11:17 G 16432561.88 16432561.97 16432562.08 0.0143 0.0088

Uranus 40278-12-19 14:53 G 16432650.01 16432650.12 16432650.24 0.0143 0.0066

Moon 40279-02-01 23:31 G 16432694.34 16432694.48 16432694.62 0.2676 0.1434

Earth 40279-02-02 00:58 G 16432694.41 16432694.54 16432694.68 0.2680 0.1531 *

Uranus 40279-03-17 18:29 G 16432738.14 16432738.27 16432738.39 0.0143 0.0045

Uranus 40279-06-13 21:50 G 16432826.29 16432826.41 16432826.55 0.0143 0.0024

Uranus 40279-09-10 01:26 G 16432914.43 16432914.56 16432914.69 0.0143 0.0003

Uranus 40279-12-07 05:02 G 16433002.58 16433002.71 16433002.84 0.0143 0.0019

Uranus 40280-03-04 08:38 G 16433090.73 16433090.86 16433090.98 0.0143 0.0041

Uranus 40280-05-31 12:00 G 16433178.89 16433179.00 16433179.13 0.0143 0.0063

Mars 40280-08-26 13:26 G 16433266.02 16433266.06 16433266.11 0.1936 0.1744

Uranus 40280-08-27 15:36 G 16433267.05 16433267.15 16433267.26 0.0143 0.0085

Uranus 40280-11-23 19:12 G 16433355.22 16433355.30 16433355.39 0.0143 0.0107

Uranus 40281-02-19 22:48 G 16433443.40 16433443.45 16433443.51 0.0144 0.0129

Moon 40282-07-28 16:19 G 16433967.10 16433967.18 16433967.25 0.2646 0.1785

Earth 40282-07-28 16:19 G 16433967.10 16433967.18 16433967.26 0.2653 0.1733 *

Jupiter 40283-01-21 07:41 G 16434143.73 16434143.82 16434143.92 0.0519 0.0343

Jupiter 40283-04-20 11:46 G 16434232.88 16434232.99 16434233.11 0.0517 0.0245

Jupiter 40289-03-15 19:55 G 16436389.26 16436389.33 16436389.41 0.0507 0.0460

Jupiter 40289-06-14 09:36 G 16436479.79 16436479.90 16436480.02 0.0508 0.0400

Saturn 40289-12-08 07:26 G 16436656.63 16436656.81 16436656.99 0.0279 0.0104

Mars 40290-01-16 21:36 G 16436696.29 16436696.40 16436696.51 0.1939 0.0288

Saturn 40290-03-07 07:26 G 16436745.63 16436745.81 16436745.98 0.0280 0.0098

Jupiter 40294-11-09 12:00 G 16438453.96 16438454.00 16438454.03 0.0519 0.0498

Jupiter 40295-02-06 16:05 G 16438543.04 16438543.17 16438543.29 0.0518 0.0089

Moon 40295-07-31 08:53 G 16438717.76 16438717.87 16438717.97 0.2648 0.0519

Earth 40295-07-31 09:22 G 16438717.78 16438717.89 16438717.99 0.2652 0.0495 *

Mars 40299-06-09 05:46 G 16440126.65 16440126.74 16440126.83 0.1941 0.1144

Jupiter 40301-04-03 06:14 G 16440789.59 16440789.76 16440789.94 0.0508 0.0193

Venus 40302-05-03 18:58 G 16441185.25 16441185.29 16441185.33 0.3689 0.3362

Saturn 40302-10-23 20:38 G 16441358.31 16441358.36 16441358.42 0.0285 0.0254

Saturn 40303-01-20 07:41 G 16441446.70 16441446.82 16441446.94 0.0284 0.0113

Saturn 40303-04-18 18:43 G 16441535.15 16441535.28 16441535.41 0.0282 0.0028

Saturn 40303-07-16 05:31 G 16441623.63 16441623.73 16441623.84 0.0281 0.0165

Mars 40306-01-28 04:34 G 16442550.59 16442550.69 16442550.80 0.1597 0.1231

Jupiter 40306-11-26 20:24 G 16442853.23 16442853.35 16442853.48 0.0518 0.0063

Venus 40307-11-17 10:48 G 16443208.85 16443208.95 16443209.04 0.3688 0.1364

Moon 40308-08-03 01:41 G 16443468.47 16443468.57 16443468.67 0.2654 0.0611

Earth 40308-08-03 02:24 G 16443468.49 16443468.60 16443468.70 0.2652 0.0763 *

Moon 40312-01-31 21:36 G 16444745.24 16444745.40 16444745.55 0.2673 0.1069

Earth 40312-01-31 21:50 G 16444745.26 16444745.41 16444745.56 0.2679 0.1131 *

Jupiter 40313-01-20 02:10 G 16445099.40 16445099.59 16445099.78 0.0507 0.0025

Venus 40313-06-02 02:24 G 16445232.50 16445232.60 16445232.70 0.3688 0.0671

Mars 40315-06-20 06:43 G 16445980.61 16445980.78 16445980.95 0.1595 0.0096

Jupiter 40318-09-15 01:12 G 16447163.43 16447163.55 16447163.66 0.0519 0.0209

Uranus 40318-11-03 06:58 G 16447212.75 16447212.79 16447212.85 0.0136 0.0131

Jupiter 40318-12-13 05:17 G 16447252.64 16447252.72 16447252.81 0.0517 0.0380

Venus 40318-12-16 18:14 G 16447256.20 16447256.26 16447256.33 0.3687 0.2745

Uranus 40319-01-30 14:24 G 16447300.99 16447301.10 16447301.23 0.0136 0.0104

Saturn 40319-04-28 06:43 G 16447388.63 16447388.78 16447388.95 0.0279 0.0154

Uranus 40319-04-28 21:50 G 16447389.26 16447389.41 16447389.58 0.0135 0.0077

Uranus 40319-07-26 05:17 G 16447477.55 16447477.72 16447477.91 0.0135 0.0050

Saturn 40319-07-26 06:43 G 16447477.60 16447477.78 16447477.97 0.0281 0.0049 *

Uranus 40319-10-22 12:58 G 16447565.85 16447566.04 16447566.23 0.0135 0.0023

Saturn 40319-10-23 06:29 G 16447566.70 16447566.77 16447566.86 0.0282 0.0252

Uranus 40320-01-18 20:10 G 16447654.15 16447654.34 16447654.54 0.0135 0.0005

Mars 40320-02-26 13:26 G 16447693.05 16447693.06 16447693.08 0.1936 0.1904

Uranus 40320-04-16 03:22 G 16447742.46 16447742.64 16447742.83 0.0135 0.0031

Uranus 40320-07-13 10:34 G 16447830.77 16447830.94 16447831.12 0.0135 0.0058

Uranus 40320-10-09 18:00 G 16447919.10 16447919.25 16447919.40 0.0135 0.0084

Uranus 40321-01-06 00:43 G 16448007.44 16448007.53 16448007.66 0.0135 0.0110

Moon 40321-08-05 18:43 G 16448219.22 16448219.28 16448219.35 0.2656 0.1989

Earth 40321-08-05 19:12 G 16448219.23 16448219.30 16448219.37 0.2651 0.2004 *

Neptune 40321-08-06 00:29 G 16448219.50 16448219.52 16448219.56 0.0089 0.0086

Neptune 40321-11-02 01:55 G 16448307.52 16448307.58 16448307.64 0.0089 0.0078

Neptune 40322-01-29 03:07 G 16448395.56 16448395.63 16448395.71 0.0089 0.0071

Neptune 40322-04-27 04:19 G 16448483.60 16448483.68 16448483.78 0.0089 0.0064

Neptune 40322-07-24 05:46 G 16448571.64 16448571.74 16448571.84 0.0089 0.0056

Neptune 40322-10-20 06:58 G 16448659.68 16448659.79 16448659.90 0.0089 0.0049

Neptune 40323-01-16 08:10 G 16448747.73 16448747.84 16448747.96 0.0089 0.0041

Neptune 40323-04-14 09:36 G 16448835.78 16448835.90 16448836.02 0.0089 0.0034

Neptune 40323-07-11 10:48 G 16448923.83 16448923.95 16448924.08 0.0089 0.0027

Neptune 40323-10-07 12:00 G 16449011.88 16449012.00 16449012.13 0.0089 0.0019

Neptune 40324-01-03 13:26 G 16449099.93 16449100.06 16449100.19 0.0089 0.0012

Neptune 40324-03-31 14:38 G 16449187.98 16449188.11 16449188.25 0.0089 0.0005

Neptune 40324-06-27 16:05 G 16449276.03 16449276.17 16449276.30 0.0089 0.0004

Neptune 40324-09-23 17:17 G 16449364.09 16449364.22 16449364.35 0.0089 0.0011

Jupiter 40324-11-07 22:05 G 16449409.25 16449409.42 16449409.58 0.0507 0.0242

Mars 40324-11-09 08:38 G 16449410.79 16449410.86 16449410.93 0.1594 0.1426

Neptune 40324-12-20 18:29 G 16449452.14 16449452.27 16449452.40 0.0089 0.0018

Moon 40325-02-03 06:29 G 16449496.65 16449496.77 16449496.89 0.2676 0.1808

Earth 40325-02-03 08:10 G 16449496.74 16449496.84 16449496.94 0.2680 0.2127 *

Neptune 40325-03-18 19:41 G 16449540.20 16449540.32 16449540.45 0.0089 0.0026

Neptune 40325-06-14 21:07 G 16449628.26 16449628.38 16449628.50 0.0089 0.0033

Neptune 40325-09-10 22:19 G 16449716.32 16449716.43 16449716.55 0.0088 0.0040

Neptune 40325-12-07 23:46 G 16449804.38 16449804.49 16449804.60 0.0088 0.0048

Neptune 40326-03-06 00:43 G 16449892.44 16449892.53 16449892.64 0.0088 0.0056

Neptune 40326-06-02 02:10 G 16449980.50 16449980.59 16449980.69 0.0088 0.0063

Neptune 40326-08-29 03:22 G 16450068.57 16450068.64 16450068.73 0.0088 0.0070

Neptune 40326-11-25 04:48 G 16450156.64 16450156.70 16450156.77 0.0088 0.0078

Neptune 40327-02-21 05:46 G 16450244.72 16450244.74 16450244.79 0.0088 0.0086

Venus 40328-06-27 21:50 G 16450737.27 16450737.41 16450737.55 0.3682 0.1392

Moon 40328-07-29 20:53 G 16450769.28 16450769.37 16450769.45 0.2646 0.1502

Earth 40328-07-29 21:07 G 16450769.29 16450769.38 16450769.47 0.2653 0.1487 *

Mars 40329-07-18 21:36 G 16451123.29 16451123.40 16451123.51 0.1938 0.0460

Jupiter 40330-07-04 06:00 G 16451473.66 16451473.75 16451473.84 0.0519 0.0349

Jupiter 40330-10-01 10:05 G 16451562.81 16451562.92 16451563.04 0.0517 0.0240

Pluto 40331-07-27 03:36 G 16451861.60 16451861.65 16451861.75 0.0075 0.0070

Pluto 40331-10-23 06:29 G 16451949.64 16451949.77 16451949.93 0.0075 0.0049

Pluto 40332-01-19 09:22 G 16452037.71 16452037.89 16452038.07 0.0075 0.0029

Pluto 40332-04-16 11:46 G 16452125.80 16452125.99 16452126.19 0.0075 0.0010

Saturn 40332-06-08 10:19 G 16452178.82 16452178.93 16452179.04 0.0284 0.0151

Pluto 40332-07-13 14:24 G 16452213.91 16452214.10 16452214.30 0.0075 0.0010

Saturn 40332-09-04 21:22 G 16452267.26 16452267.39 16452267.52 0.0283 0.0014

Pluto 40332-10-09 16:48 G 16452302.03 16452302.20 16452302.39 0.0075 0.0030

Saturn 40332-12-02 08:10 G 16452355.73 16452355.84 16452355.96 0.0281 0.0127

Pluto 40333-01-05 19:26 G 16452390.17 16452390.31 16452390.46 0.0074 0.0049

Saturn 40333-02-28 19:12 G 16452444.26 16452444.30 16452444.34 0.0280 0.0265

Pluto 40333-04-03 21:36 G 16452478.34 16452478.40 16452478.50 0.0074 0.0068

Jupiter 40336-08-26 16:48 G 16453719.14 16453719.20 16453719.26 0.0507 0.0475

Jupiter 40336-11-25 06:29 G 16453809.65 16453809.77 16453809.89 0.0508 0.0385

Mars 40338-12-09 05:31 G 16454553.64 16454553.73 16454553.83 0.1941 0.1001

Moon 40341-08-01 13:26 G 16455519.95 16455520.06 16455520.17 0.2649 0.0371

Earth 40341-08-01 13:55 G 16455519.98 16455520.08 16455520.19 0.2652 0.0261 *

Jupiter 40342-04-22 10:48 G 16455783.91 16455783.95 16455783.99 0.0520 0.0493

Jupiter 40342-07-20 14:53 G 16455873.00 16455873.12 16455873.25 0.0518 0.0095

Mars 40345-07-29 05:17 G 16456977.65 16456977.72 16456977.79 0.1597 0.1434

Jupiter 40348-09-13 02:53 G 16458119.45 16458119.62 16458119.80 0.0508 0.0174

Saturn 40348-09-14 06:43 G 16458120.65 16458120.78 16458120.92 0.0279 0.0197

Saturn 40348-12-12 06:43 G 16458209.59 16458209.78 16458209.97 0.0280 0.0004

Saturn 40349-03-11 06:29 G 16458298.65 16458298.77 16458298.90 0.0281 0.0207

Jupiter 40354-05-08 18:58 G 16460183.17 16460183.29 16460183.42 0.0518 0.0063

Moon 40354-08-04 06:14 G 16460270.67 16460270.76 16460270.86 0.2654 0.0986

Earth 40354-08-04 06:58 G 16460270.69 16460270.79 16460270.89 0.2651 0.1004 *

Mars 40354-12-19 07:26 G 16460407.64 16460407.81 16460407.98 0.1596 0.0117

Moon 40358-02-01 04:05 G 16461547.51 16461547.67 16461547.84 0.2674 0.0720

Earth 40358-02-01 05:02 G 16461547.55 16461547.71 16461547.87 0.2680 0.0531 *

Venus 40358-12-08 16:19 G 16461858.11 16461858.18 16461858.25 0.3689 0.2647

Jupiter 40360-07-01 23:31 G 16462429.29 16462429.48 16462429.67 0.0507 0.0034

Earth 40361-07-28 08:53 G 16462820.83 16462820.87 16462820.90 0.2653 0.2473

Moon 40361-07-28 09:07 G 16462820.84 16462820.88 16462820.92 0.2647 0.2443 *

Saturn 40361-10-26 13:26 G 16462910.96 16462911.06 16462911.15 0.0284 0.0186

Saturn 40362-01-23 00:14 G 16462999.39 16462999.51 16462999.64 0.0283 0.0046

Uranus 40362-04-20 12:00 G 16463086.94 16463087.00 16463087.07 0.0143 0.0123

Saturn 40362-04-21 11:17 G 16463087.85 16463087.97 16463088.09 0.0282 0.0094

Uranus 40362-07-17 15:36 G 16463175.06 16463175.15 16463175.24 0.0143 0.0101

Saturn 40362-07-18 22:05 G 16463176.35 16463176.42 16463176.49 0.0281 0.0232

Uranus 40362-10-13 18:58 G 16463263.19 16463263.29 16463263.40 0.0143 0.0081

Uranus 40363-01-09 22:34 G 16463351.32 16463351.44 16463351.56 0.0143 0.0059

Uranus 40363-04-08 02:10 G 16463439.46 16463439.59 16463439.71 0.0143 0.0038

Uranus 40363-07-05 05:31 G 16463527.60 16463527.73 16463527.86 0.0143 0.0017

Uranus 40363-10-01 09:07 G 16463615.75 16463615.88 16463616.01 0.0143 0.0005

Uranus 40363-12-28 12:43 G 16463703.90 16463704.03 16463704.16 0.0143 0.0027

Uranus 40364-03-25 16:19 G 16463792.05 16463792.18 16463792.30 0.0143 0.0049

Mars 40364-05-10 09:22 G 16463837.78 16463837.89 16463838.00 0.1594 0.1213

Uranus 40364-06-21 19:55 G 16463880.21 16463880.33 16463880.44 0.0143 0.0071

Venus 40364-06-23 08:10 G 16463881.74 16463881.84 16463881.94 0.3688 0.0647

Uranus 40364-09-17 23:17 G 16463968.38 16463968.47 16463968.58 0.0143 0.0093

Uranus 40364-12-15 02:53 G 16464056.55 16464056.62 16464056.71 0.0143 0.0115

Uranus 40365-03-13 06:43 G 16464144.74 16464144.78 16464144.82 0.0144 0.0137

Jupiter 40366-02-24 23:17 G 16464493.36 16464493.47 16464493.59 0.0519 0.0214

Jupiter 40366-05-25 03:36 G 16464582.56 16464582.65 16464582.73 0.0517 0.0374

Moon 40367-08-06 23:46 G 16465021.43 16465021.49 16465021.55 0.2657 0.2177

Earth 40367-08-07 00:00 G 16465021.44 16465021.50 16465021.55 0.2651 0.2253 *

Mars 40369-01-16 21:36 G 16465550.29 16465550.40 16465550.51 0.1938 0.0626

Venus 40370-01-07 00:00 G 16465905.40 16465905.50 16465905.59 0.3688 0.1415

Moon 40371-02-04 13:26 G 16466299.04 16466299.06 16466299.09 0.2676 0.2631

Jupiter 40372-04-19 19:12 G 16466739.14 16466739.30 16466739.47 0.0507 0.0252

Moon 40374-07-31 01:26 G 16467571.47 16467571.56 16467571.65 0.2646 0.1289

Earth 40374-07-31 01:41 G 16467571.48 16467571.57 16467571.67 0.2652 0.1238 *

Venus 40375-07-23 15:50 G 16467929.13 16467929.16 16467929.19 0.3687 0.3490

Jupiter 40377-12-14 03:50 G 16468803.57 16468803.66 16468803.75 0.0520 0.0363

Saturn 40378-02-01 06:43 G 16468852.69 16468852.78 16468852.87 0.0279 0.0243

Jupiter 40378-03-13 08:10 G 16468892.72 16468892.84 16468892.95 0.0518 0.0226

Saturn 40378-05-01 06:29 G 16468941.59 16468941.77 16468941.96 0.0280 0.0042

Mars 40378-06-09 05:31 G 16468980.63 16468980.73 16468980.84 0.1941 0.0836

Saturn 40378-07-29 06:29 G 16469030.62 16469030.77 16469030.93 0.0281 0.0161

Jupiter 40384-02-06 14:53 G 16471049.06 16471049.12 16471049.19 0.0506 0.0471

Jupiter 40384-05-07 04:34 G 16471139.57 16471139.69 16471139.81 0.0508 0.0387

Venus 40385-02-01 23:31 G 16471410.33 16471410.48 16471410.63 0.3682 0.0605

Moon 40387-08-02 18:00 G 16472322.15 16472322.25 16472322.36 0.2651 0.0123

Earth 40387-08-02 18:43 G 16472322.17 16472322.28 16472322.39 0.2652 0.0018 *

Jupiter 40389-10-02 08:53 G 16473113.84 16473113.87 16473113.89 0.0520 0.0504

Jupiter 40389-12-30 12:58 G 16473202.91 16473203.04 16473203.16 0.0518 0.0084

Saturn 40391-03-15 16:19 G 16473643.10 16473643.18 16473643.27 0.0284 0.0218

Saturn 40391-06-12 03:22 G 16473731.52 16473731.64 16473731.77 0.0283 0.0078

Saturn 40391-09-08 14:24 G 16473819.97 16473820.10 16473820.22 0.0282 0.0062

Saturn 40391-12-06 01:12 G 16473908.46 16473908.55 16473908.64 0.0281 0.0199

Mars 40394-06-19 08:10 G 16474834.67 16474834.84 16474835.00 0.1596 0.0328

Jupiter 40396-02-23 23:17 G 16475449.30 16475449.47 16475449.65 0.0508 0.0155

Moon 40400-08-04 11:02 G 16477072.86 16477072.96 16477073.06 0.2654 0.1113

Earth 40400-08-04 11:46 G 16477072.89 16477072.99 16477073.08 0.2651 0.1258 *

Jupiter 40401-10-18 17:31 G 16477513.11 16477513.23 16477513.36 0.0518 0.0063

Uranus 40402-11-23 15:07 G 16477914.05 16477914.13 16477914.22 0.0136 0.0121

Uranus 40403-02-19 22:34 G 16478002.30 16478002.44 16478002.58 0.0135 0.0094

Uranus 40403-05-19 06:00 G 16478090.58 16478090.75 16478090.92 0.0135 0.0067

Uranus 40403-08-15 13:26 G 16478178.88 16478179.06 16478179.25 0.0135 0.0040

Mars 40403-11-09 10:05 G 16478264.79 16478264.92 16478265.05 0.1594 0.1005

Uranus 40403-11-11 20:53 G 16478267.18 16478267.37 16478267.56 0.0135 0.0013

Moon 40404-02-02 10:48 G 16478349.78 16478349.95 16478350.12 0.2674 0.0022

Earth 40404-02-02 12:00 G 16478349.84 16478350.00 16478350.17 0.2680 0.0069 *

Uranus 40404-02-08 04:05 G 16478355.48 16478355.67 16478355.87 0.0135 0.0014

Uranus 40404-05-06 11:31 G 16478443.79 16478443.98 16478444.16 0.0135 0.0040

Uranus 40404-08-02 18:29 G 16478532.11 16478532.27 16478532.45 0.0135 0.0067

Uranus 40404-10-30 01:41 G 16478620.44 16478620.57 16478620.72 0.0135 0.0093

Uranus 40405-01-26 08:53 G 16478708.79 16478708.87 16478708.97 0.0135 0.0119

Neptune 40406-01-08 19:55 G 16479056.28 16479056.33 16479056.43 0.0089 0.0082

Neptune 40406-04-07 00:14 G 16479144.39 16479144.51 16479144.63 0.0089 0.0070

Neptune 40406-07-04 03:50 G 16479232.52 16479232.66 16479232.81 0.0089 0.0059

Neptune 40406-09-30 07:26 G 16479320.66 16479320.81 16479320.99 0.0089 0.0048

Neptune 40406-12-27 11:02 G 16479408.80 16479408.96 16479409.15 0.0089 0.0037

Neptune 40407-03-25 14:53 G 16479496.94 16479497.12 16479497.32 0.0089 0.0026

Neptune 40407-06-21 18:43 G 16479585.09 16479585.28 16479585.48 0.0089 0.0014

Moon 40407-07-29 13:41 G 16479623.01 16479623.07 16479623.13 0.2647 0.2179

Earth 40407-07-29 13:26 G 16479623.01 16479623.06 16479623.12 0.2653 0.2227 *

Neptune 40407-09-17 22:19 G 16479673.24 16479673.43 16479673.63 0.0089 0.0004

Saturn 40407-09-18 06:43 G 16479673.60 16479673.78 16479673.97 0.0279 0.0083 *

Jupiter 40407-12-12 19:41 G 16479759.13 16479759.32 16479759.51 0.0507 0.0058

Neptune 40407-12-15 02:10 G 16479761.39 16479761.59 16479761.78 0.0089 0.0008

Saturn 40407-12-16 06:43 G 16479762.61 16479762.78 16479762.95 0.0280 0.0120

Neptune 40408-03-12 05:46 G 16479849.55 16479849.74 16479849.93 0.0089 0.0019

Neptune 40408-06-08 09:22 G 16479937.71 16479937.89 16479938.08 0.0089 0.0030

Mars 40408-07-17 21:36 G 16479977.29 16479977.40 16479977.50 0.1939 0.0781

Neptune 40408-09-04 13:12 G 16480025.88 16480026.05 16480026.22 0.0089 0.0041

Neptune 40408-12-01 16:48 G 16480114.04 16480114.20 16480114.36 0.0089 0.0052

Neptune 40409-02-27 20:24 G 16480202.22 16480202.35 16480202.49 0.0089 0.0063

Neptune 40409-05-26 23:31 G 16480290.40 16480290.48 16480290.61 0.0089 0.0075

Neptune 40409-08-23 03:36 G 16480378.60 16480378.65 16480378.71 0.0089 0.0085

Jupiter 40413-08-06 21:36 G 16481823.29 16481823.40 16481823.52 0.0519 0.0219

Moon 40413-08-07 04:34 G 16481823.66 16481823.69 16481823.72 0.2658 0.2552

Earth 40413-08-07 04:34 G 16481823.66 16481823.69 16481823.73 0.2651 0.2504 *

Jupiter 40413-11-04 01:55 G 16481912.49 16481912.58 16481912.66 0.0517 0.0368

Venus 40415-07-15 13:55 G 16482530.99 16482531.08 16482531.16 0.3689 0.1931

Mars 40417-12-08 05:46 G 16483407.63 16483407.74 16483407.85 0.1940 0.0650

Jupiter 40419-09-30 16:05 G 16484069.02 16484069.17 16484069.33 0.0507 0.0266

Moon 40420-07-31 06:14 G 16484373.66 16484373.76 16484373.85 0.2647 0.1040

Earth 40420-07-31 06:29 G 16484373.67 16484373.77 16484373.87 0.2652 0.0984 *

Saturn 40420-08-01 19:41 G 16484375.27 16484375.32 16484375.38 0.0285 0.0250

Saturn 40420-10-29 06:43 G 16484463.66 16484463.78 16484463.90 0.0284 0.0109

Saturn 40421-01-25 17:46 G 16484552.11 16484552.24 16484552.37 0.0282 0.0032

Venus 40421-01-28 05:31 G 16484554.63 16484554.73 16484554.84 0.3688 0.0145

Saturn 40421-04-24 04:34 G 16484640.59 16484640.69 16484640.79 0.0281 0.0169

Jupiter 40425-05-26 02:10 G 16486133.50 16486133.59 16486133.67 0.0519 0.0371

Jupiter 40425-08-23 06:14 G 16486222.64 16486222.76 16486222.87 0.0517 0.0217

Venus 40426-08-13 21:22 G 16486578.31 16486578.39 16486578.48 0.3687 0.2168

Jupiter 40431-07-19 12:00 G 16488378.95 16488379.00 16488379.05 0.0506 0.0483

Jupiter 40431-10-18 01:41 G 16488469.44 16488469.57 16488469.69 0.0508 0.0375

Moon 40433-08-02 22:48 G 16489124.34 16489124.45 16489124.56 0.2652 0.0152

Earth 40433-08-02 23:31 G 16489124.37 16489124.48 16489124.58 0.2652 0.0267 *

Mars 40433-12-18 08:53 G 16489261.71 16489261.87 16489262.03 0.1596 0.0546

Venus 40436-02-23 17:46 G 16490059.19 16490059.24 16490059.28 0.3682 0.3474

Earth 40437-01-30 08:38 G 16490400.83 16490400.86 16490400.90 0.2679 0.2608

Moon 40437-01-30 08:38 G 16490400.84 16490400.86 16490400.90 0.2673 0.2620 *

Saturn 40437-02-04 07:12 G 16490405.63 16490405.80 16490405.97 0.0280 0.0125

Saturn 40437-05-04 07:12 G 16490494.62 16490494.80 16490494.98 0.0281 0.0078

Jupiter 40437-06-11 10:34 G 16490532.82 16490532.94 16490533.07 0.0518 0.0069

Venus 40441-09-09 01:12 G 16492083.45 16492083.55 16492083.66 0.3683 0.2572

Mars 40443-05-10 10:48 G 16492691.80 16492691.95 16492692.09 0.1594 0.0789

Jupiter 40443-08-05 21:22 G 16492779.21 16492779.39 16492779.57 0.0507 0.0155

Uranus 40446-02-11 15:50 G 16493700.14 16493700.16 16493700.19 0.0143 0.0139

Uranus 40446-05-10 19:12 G 16493788.24 16493788.30 16493788.38 0.0143 0.0118

Moon 40446-08-05 15:50 G 16493875.07 16493875.16 16493875.25 0.2655 0.1480

Earth 40446-08-05 16:19 G 16493875.10 16493875.18 16493875.27 0.2651 0.1505 *

Uranus 40446-08-06 22:48 G 16493876.36 16493876.45 16493876.55 0.0143 0.0097

Uranus 40446-11-03 02:10 G 16493964.49 16493964.59 16493964.71 0.0143 0.0076

Uranus 40447-01-30 05:46 G 16494052.62 16494052.74 16494052.86 0.0143 0.0054

Uranus 40447-04-28 09:22 G 16494140.76 16494140.89 16494141.02 0.0143 0.0033

Uranus 40447-07-25 12:43 G 16494228.90 16494229.03 16494229.17 0.0143 0.0012

Uranus 40447-10-21 16:19 G 16494317.05 16494317.18 16494317.31 0.0143 0.0011

Mars 40448-01-16 21:36 G 16494404.30 16494404.40 16494404.50 0.1938 0.0956

Uranus 40448-01-17 19:55 G 16494405.20 16494405.33 16494405.46 0.0143 0.0032

Uranus 40448-04-14 23:31 G 16494493.36 16494493.48 16494493.60 0.0143 0.0054

Uranus 40448-07-12 02:53 G 16494581.52 16494581.62 16494581.74 0.0143 0.0077

Uranus 40448-10-08 06:29 G 16494669.68 16494669.77 16494669.88 0.0143 0.0099

Uranus 40449-01-04 10:05 G 16494757.86 16494757.92 16494758.00 0.0144 0.0121

Jupiter 40449-03-30 15:36 G 16494843.02 16494843.15 16494843.27 0.0519 0.0076

Uranus 40449-04-02 13:41 G 16494846.07 16494846.07 16494846.10 0.0144 0.0143

Jupiter 40449-06-27 19:41 G 16494932.31 16494932.32 16494932.34 0.0517 0.0513

Saturn 40449-12-19 23:02 G 16495107.44 16495107.46 16495107.48 0.0285 0.0280

Moon 40450-02-02 17:46 G 16495152.08 16495152.24 16495152.41 0.2674 0.0452

Earth 40450-02-02 18:58 G 16495152.13 16495152.29 16495152.45 0.2680 0.0666 *

Saturn 40450-03-18 10:05 G 16495195.81 16495195.92 16495196.03 0.0283 0.0139

Saturn 40450-06-14 20:53 G 16495284.24 16495284.37 16495284.50 0.0282 0.0006

Saturn 40450-09-11 07:55 G 16495372.71 16495372.83 16495372.94 0.0281 0.0139

Saturn 40450-12-08 18:43 G 16495461.26 16495461.28 16495461.30 0.0280 0.0276

Moon 40453-07-29 18:14 G 16496425.19 16496425.26 16496425.33 0.2646 0.2025

Earth 40453-07-29 18:14 G 16496425.19 16496425.26 16496425.33 0.2653 0.1972 *

Jupiter 40455-05-24 16:05 G 16497088.99 16497089.17 16497089.36 0.0507 0.0078

Mars 40457-06-08 05:31 G 16497834.62 16497834.73 16497834.84 0.1940 0.0513

Jupiter 40461-01-16 20:10 G 16499153.23 16499153.34 16499153.46 0.0519 0.0220

Jupiter 40461-04-16 00:29 G 16499242.43 16499242.52 16499242.61 0.0517 0.0368

Saturn 40466-06-24 07:12 G 16501137.65 16501137.80 16501137.95 0.0279 0.0168

Moon 40466-08-01 10:48 G 16501175.85 16501175.95 16501176.05 0.2648 0.0772

Earth 40466-08-01 11:17 G 16501175.86 16501175.97 16501176.07 0.2652 0.0736 *

Venus 40466-08-05 19:41 G 16501180.27 16501180.32 16501180.37 0.3689 0.3204

Saturn 40466-09-21 07:12 G 16501226.61 16501226.80 16501226.99 0.0280 0.0034

Mars 40466-10-29 13:55 G 16501265.07 16501265.08 16501265.08 0.1943 0.1938

Saturn 40466-12-19 06:58 G 16501315.70 16501315.79 16501315.90 0.0281 0.0238

Jupiter 40467-03-12 12:14 G 16501398.86 16501399.01 16501399.16 0.0507 0.0291

Venus 40472-02-19 11:17 G 16503203.87 16503203.97 16503204.07 0.3688 0.1204

Jupiter 40472-11-05 00:14 G 16503463.43 16503463.51 16503463.60 0.0519 0.0378

Jupiter 40473-02-02 04:19 G 16503552.57 16503552.68 16503552.80 0.0517 0.0210

Mars 40473-06-18 09:36 G 16503688.75 16503688.90 16503689.04 0.1596 0.0755

Venus 40477-09-04 03:07 G 16505227.53 16505227.63 16505227.73 0.3688 0.0841

Jupiter 40478-12-29 08:38 G 16505708.84 16505708.86 16505708.89 0.0506 0.0499

Jupiter 40479-03-29 22:34 G 16505799.31 16505799.44 16505799.57 0.0508 0.0361

Moon 40479-08-04 03:36 G 16505926.54 16505926.65 16505926.75 0.2652 0.0431

Earth 40479-08-04 04:05 G 16505926.57 16505926.67 16505926.78 0.2652 0.0518 *

Saturn 40479-08-05 13:26 G 16505927.96 16505928.06 16505928.17 0.0284 0.0168

Saturn 40479-11-02 00:29 G 16506016.39 16506016.52 16506016.65 0.0283 0.0027

Saturn 40480-01-29 11:17 G 16506104.86 16506104.97 16506105.09 0.0282 0.0112

Saturn 40480-04-26 22:05 G 16506193.37 16506193.42 16506193.48 0.0280 0.0249

Mars 40482-11-08 11:31 G 16507118.82 16507118.98 16507119.14 0.1594 0.0572

Moon 40483-01-31 15:22 G 16507203.03 16507203.14 16507203.25 0.2673 0.1986

Earth 40483-01-31 16:05 G 16507203.06 16507203.17 16507203.27 0.2679 0.1995 *

Venus 40483-03-20 18:58 G 16507251.23 16507251.29 16507251.35 0.3687 0.2916

Jupiter 40484-11-21 08:38 G 16507862.74 16507862.86 16507862.99 0.0518 0.0061

Neptune 40486-05-03 00:00 G 16508390.47 16508390.50 16508390.55 0.0089 0.0084

Neptune 40486-07-30 01:26 G 16508478.50 16508478.56 16508478.63 0.0089 0.0076

Neptune 40486-10-26 02:38 G 16508566.54 16508566.61 16508566.70 0.0089 0.0069

Uranus 40486-12-13 23:02 G 16508615.37 16508615.46 16508615.59 0.0136 0.0111

Neptune 40487-01-22 04:05 G 16508654.58 16508654.67 16508654.76 0.0089 0.0061

Uranus 40487-03-12 06:29 G 16508703.63 16508703.77 16508703.94 0.0135 0.0084

Neptune 40487-04-20 05:17 G 16508742.62 16508742.72 16508742.83 0.0089 0.0054

Uranus 40487-06-08 14:10 G 16508791.92 16508792.09 16508792.27 0.0135 0.0056

Neptune 40487-07-17 06:29 G 16508830.67 16508830.77 16508830.89 0.0089 0.0046

Mars 40487-07-17 21:36 G 16508831.30 16508831.40 16508831.49 0.1938 0.1116

Uranus 40487-09-04 21:36 G 16508880.22 16508880.40 16508880.59 0.0135 0.0029

Neptune 40487-10-13 07:55 G 16508918.71 16508918.83 16508918.95 0.0089 0.0039

Uranus 40487-12-02 05:02 G 16508968.52 16508968.71 16508968.90 0.0135 0.0002

Neptune 40488-01-09 09:07 G 16509006.76 16509006.88 16509007.00 0.0089 0.0032

Uranus 40488-02-28 12:29 G 16509056.83 16509057.02 16509057.21 0.0135 0.0025

Neptune 40488-04-06 10:19 G 16509094.81 16509094.93 16509095.06 0.0089 0.0024

Uranus 40488-05-26 19:26 G 16509145.14 16509145.31 16509145.50 0.0135 0.0051

Neptune 40488-07-03 11:46 G 16509182.86 16509182.99 16509183.12 0.0089 0.0017

Uranus 40488-08-23 02:53 G 16509233.46 16509233.62 16509233.78 0.0135 0.0077

Neptune 40488-09-29 12:58 G 16509270.91 16509271.04 16509271.17 0.0089 0.0009

Uranus 40488-11-19 10:05 G 16509321.80 16509321.92 16509322.04 0.0135 0.0103

Neptune 40488-12-26 14:10 G 16509358.96 16509359.09 16509359.23 0.0089 0.0004

Uranus 40489-02-15 17:17 G 16509410.17 16509410.22 16509410.27 0.0135 0.0129

Neptune 40489-03-24 15:36 G 16509447.02 16509447.15 16509447.28 0.0089 0.0006

Neptune 40489-06-20 16:48 G 16509535.07 16509535.20 16509535.33 0.0089 0.0013

Neptune 40489-09-16 18:00 G 16509623.13 16509623.25 16509623.38 0.0089 0.0021

Neptune 40489-12-13 19:26 G 16509711.18 16509711.31 16509711.43 0.0088 0.0028

Neptune 40490-03-11 20:38 G 16509799.24 16509799.36 16509799.48 0.0088 0.0035

Neptune 40490-06-07 21:50 G 16509887.30 16509887.41 16509887.53 0.0088 0.0043

Neptune 40490-09-03 23:02 G 16509975.36 16509975.46 16509975.58 0.0088 0.0051

Neptune 40490-12-01 00:29 G 16510063.42 16510063.52 16510063.62 0.0088 0.0058

Jupiter 40491-01-15 18:29 G 16510109.09 16510109.27 16510109.45 0.0507 0.0143

Neptune 40491-02-27 01:41 G 16510151.49 16510151.57 16510151.67 0.0088 0.0065

Neptune 40491-05-26 02:53 G 16510239.56 16510239.62 16510239.71 0.0088 0.0073

Neptune 40491-08-22 04:05 G 16510327.63 16510327.67 16510327.74 0.0088 0.0080

Neptune 40491-11-18 05:31 G 16510415.72 16510415.73 16510415.76 0.0088 0.0088

Moon 40492-08-05 20:38 G 16510677.28 16510677.36 16510677.45 0.2656 0.1677

Earth 40492-08-05 21:07 G 16510677.30 16510677.38 16510677.46 0.2651 0.1756 *

Venus 40492-09-29 19:26 G 16510732.17 16510732.31 16510732.45 0.3682 0.1437

Pluto 40492-10-27 23:46 G 16510760.45 16510760.49 16510760.56 0.0069 0.0062

Pluto 40493-01-24 00:43 G 16510848.44 16510848.53 16510848.62 0.0069 0.0051

Pluto 40493-04-22 00:58 G 16510936.45 16510936.54 16510936.66 0.0069 0.0041

Pluto 40493-07-19 01:41 G 16511024.46 16511024.57 16511024.69 0.0069 0.0031

Pluto 40493-10-15 02:24 G 16511112.47 16511112.60 16511112.72 0.0069 0.0020

Pluto 40494-01-11 02:53 G 16511200.49 16511200.62 16511200.75 0.0069 0.0010

Pluto 40494-04-09 03:22 G 16511288.51 16511288.64 16511288.77 0.0069 0.0001

Pluto 40494-07-06 03:50 G 16511376.53 16511376.66 16511376.80 0.0069 0.0011

Pluto 40494-10-02 04:19 G 16511464.56 16511464.68 16511464.81 0.0069 0.0022

Pluto 40494-12-29 05:02 G 16511552.59 16511552.71 16511552.83 0.0070 0.0032

Pluto 40495-03-27 05:31 G 16511640.63 16511640.73 16511640.84 0.0070 0.0043

Pluto 40495-06-23 05:46 G 16511728.68 16511728.74 16511728.84 0.0070 0.0054

Pluto 40495-09-19 06:29 G 16511816.73 16511816.77 16511816.83 0.0070 0.0064

Saturn 40495-11-11 07:26 G 16511869.69 16511869.81 16511869.94 0.0279 0.0211

Moon 40496-02-04 00:43 G 16511954.38 16511954.53 16511954.69 0.2675 0.1124

Earth 40496-02-04 02:10 G 16511954.45 16511954.59 16511954.74 0.2680 0.1267 *

Saturn 40496-02-08 07:26 G 16511958.62 16511958.81 16511959.00 0.0280 0.0010

Saturn 40496-05-07 07:26 G 16512047.68 16512047.81 16512047.95 0.0281 0.0196

Jupiter 40496-09-09 13:12 G 16512172.92 16512173.05 16512173.17 0.0519 0.0093

Mars 40496-12-07 05:31 G 16512261.62 16512261.73 16512261.85 0.1940 0.0340

Jupiter 40496-12-07 17:17 G 16512262.19 16512262.22 16512262.26 0.0517 0.0495

Moon 40499-07-30 22:48 G 16513227.37 16513227.45 16513227.53 0.2646 0.1682

Earth 40499-07-30 23:02 G 16513227.38 16513227.46 16513227.54 0.2653 0.1727 *

Jupiter 40502-11-04 13:55 G 16514418.90 16514419.08 16514419.27 0.0507 0.0078

Mars 40506-04-30 13:41 G 16515692.03 16515692.07 16515692.11 0.1942 0.1785

Jupiter 40508-06-29 18:00 G 16516483.14 16516483.25 16516483.36 0.0519 0.0235

Jupiter 40508-09-26 22:19 G 16516572.33 16516572.43 16516572.52 0.0517 0.0354

Saturn 40508-12-23 16:48 G 16516660.12 16516660.20 16516660.30 0.0284 0.0197

Saturn 40509-03-22 03:50 G 16516748.53 16516748.66 16516748.79 0.0283 0.0056

Saturn 40509-06-18 14:38 G 16516836.99 16516837.11 16516837.24 0.0281 0.0084

Saturn 40509-09-15 01:41 G 16516925.49 16516925.57 16516925.65 0.0280 0.0220

Moon 40512-08-02 15:22 G 16517978.04 16517978.14 16517978.25 0.2649 0.0604

Earth 40512-08-02 15:50 G 16517978.06 16517978.16 16517978.27 0.2652 0.0490 *

Mars 40512-12-18 10:05 G 16518115.79 16518115.92 16518116.06 0.1596 0.0964

Jupiter 40514-08-23 08:53 G 16518728.72 16518728.87 16518729.02 0.0506 0.0308

Jupiter 40520-04-17 22:48 G 16520793.36 16520793.45 16520793.53 0.0520 0.0380

Jupiter 40520-07-16 02:53 G 16520882.51 16520882.62 16520882.74 0.0518 0.0209

Mars 40522-05-10 12:14 G 16521545.84 16521546.01 16521546.17 0.1594 0.0366

Venus 40523-03-13 17:02 G 16521853.14 16521853.21 16521853.29 0.3689 0.2486

Saturn 40525-03-31 07:12 G 16522601.73 16522601.80 16522601.88 0.0279 0.0256

Saturn 40525-06-28 07:26 G 16522690.62 16522690.81 16522691.00 0.0280 0.0053

Moon 40525-08-05 08:10 G 16522728.74 16522728.84 16522728.95 0.2652 0.0679

Earth 40525-08-05 08:53 G 16522728.77 16522728.87 16522728.97 0.2652 0.0761 *

Saturn 40525-09-25 07:12 G 16522779.65 16522779.80 16522779.97 0.0281 0.0151

Jupiter 40526-09-09 18:29 G 16523129.14 16523129.27 16523129.42 0.0508 0.0338

Mars 40527-01-16 21:22 G 16523258.31 16523258.39 16523258.48 0.1938 0.1279

Venus 40528-09-26 08:53 G 16523876.76 16523876.87 16523876.97 0.3688 0.0482

Moon 40529-02-01 22:19 G 16524005.29 16524005.43 16524005.56 0.2673 0.1575

Earth 40529-02-01 23:02 G 16524005.32 16524005.46 16524005.60 0.2679 0.1394 *

Uranus 40530-03-04 22:48 G 16524401.42 16524401.45 16524401.50 0.0143 0.0135

Uranus 40530-06-01 02:24 G 16524489.53 16524489.60 16524489.68 0.0143 0.0114

Uranus 40530-08-28 05:46 G 16524577.65 16524577.74 16524577.85 0.0143 0.0093

Uranus 40530-11-24 09:22 G 16524665.78 16524665.89 16524666.01 0.0143 0.0071

Uranus 40531-02-20 12:58 G 16524753.92 16524754.04 16524754.16 0.0143 0.0050

Uranus 40531-05-19 16:19 G 16524842.06 16524842.18 16524842.31 0.0143 0.0029

Uranus 40531-08-15 19:55 G 16524930.20 16524930.33 16524930.46 0.0143 0.0007

Uranus 40531-11-11 23:31 G 16525018.35 16525018.48 16525018.61 0.0143 0.0015

Uranus 40532-02-08 03:07 G 16525106.50 16525106.63 16525106.76 0.0143 0.0037

Jupiter 40532-05-04 06:58 G 16525192.66 16525192.79 16525192.91 0.0518 0.0051

Uranus 40532-05-06 06:43 G 16525194.66 16525194.78 16525194.90 0.0143 0.0059

Moon 40532-07-29 11:02 G 16525278.95 16525278.96 16525278.97 0.2647 0.2628

Uranus 40532-08-02 10:05 G 16525282.82 16525282.92 16525283.03 0.0143 0.0081

Uranus 40532-10-29 13:41 G 16525370.99 16525371.07 16525371.17 0.0143 0.0103

Uranus 40533-01-25 17:31 G 16525459.17 16525459.23 16525459.29 0.0144 0.0125

Venus 40534-04-12 00:43 G 16525900.43 16525900.53 16525900.62 0.3688 0.1595

Mars 40536-06-08 05:31 G 16526688.62 16526688.73 16526688.85 0.1940 0.0182

Saturn 40538-05-12 20:24 G 16527392.28 16527392.35 16527392.43 0.0285 0.0226

Jupiter 40538-06-28 15:22 G 16527438.96 16527439.14 16527439.32 0.0508 0.0131

Moon 40538-08-08 01:26 G 16527479.49 16527479.56 16527479.63 0.2657 0.1980

Earth 40538-08-08 01:55 G 16527479.51 16527479.58 16527479.65 0.2651 0.2006 *

Saturn 40538-08-09 07:26 G 16527480.69 16527480.81 16527480.93 0.0283 0.0085

Saturn 40538-11-05 18:14 G 16527569.13 16527569.26 16527569.39 0.0282 0.0054

Saturn 40539-02-02 05:02 G 16527657.62 16527657.71 16527657.81 0.0281 0.0192

Venus 40539-10-26 16:34 G 16527924.18 16527924.19 16527924.19 0.3687 0.3675

Moon 40542-02-05 07:41 G 16528756.70 16528756.82 16528756.95 0.2676 0.1697

Earth 40542-02-05 09:22 G 16528756.77 16528756.89 16528757.00 0.2680 0.1869 *

Jupiter 40544-02-21 11:17 G 16529502.85 16529502.97 16529503.10 0.0518 0.0101

Jupiter 40544-05-20 15:36 G 16529592.11 16529592.15 16529592.19 0.0517 0.0487

Moon 40545-08-01 03:36 G 16530029.56 16530029.65 16530029.73 0.2646 0.1551

Earth 40545-08-01 03:36 G 16530029.57 16530029.65 16530029.74 0.2653 0.1478 *

Mars 40545-10-29 13:41 G 16530119.01 16530119.07 16530119.13 0.1942 0.1621

Venus 40549-05-07 21:22 G 16531405.24 16531405.39 16531405.54 0.3682 0.0586

Jupiter 40550-04-16 11:17 G 16531748.79 16531748.97 16531749.16 0.0507 0.0086

Mars 40552-06-18 11:02 G 16532542.84 16532542.96 16532543.07 0.1596 0.1184

Saturn 40554-11-15 07:12 G 16533422.62 16533422.80 16533422.98 0.0280 0.0100

Saturn 40555-02-12 07:12 G 16533511.62 16533511.80 16533511.97 0.0281 0.0104

Jupiter 40555-12-10 15:50 G 16533813.05 16533813.16 16533813.26 0.0519 0.0253

Jupiter 40556-03-08 19:55 G 16533902.24 16533902.33 16533902.43 0.0517 0.0337

Moon 40558-08-03 19:55 G 16534780.23 16534780.33 16534780.44 0.2650 0.0279

Earth 40558-08-03 20:38 G 16534780.25 16534780.36 16534780.47 0.2652 0.0234 *

Mars 40561-11-08 12:58 G 16535972.87 16535973.04 16535973.21 0.1594 0.0148

Jupiter 40562-02-02 06:58 G 16536058.64 16536058.79 16536058.94 0.0506 0.0306

Mars 40566-07-17 21:22 G 16537685.32 16537685.39 16537685.47 0.1938 0.1447

Jupiter 40567-09-28 20:38 G 16538123.28 16538123.36 16538123.44 0.0520 0.0395

Saturn 40567-09-29 23:46 G 16538124.44 16538124.49 16538124.54 0.0284 0.0256

Jupiter 40567-12-27 00:43 G 16538212.41 16538212.53 16538212.65 0.0518 0.0195

Saturn 40567-12-27 10:48 G 16538212.83 16538212.95 16538213.06 0.0283 0.0115

Saturn 40568-03-24 21:36 G 16538301.27 16538301.40 16538301.53 0.0282 0.0024

Saturn 40568-06-21 08:24 G 16538389.75 16538389.85 16538389.96 0.0281 0.0163

Neptune 40570-10-06 17:31 G 16539227.17 16539227.23 16539227.34 0.0089 0.0080

Uranus 40570-10-07 23:31 G 16539228.43 16539228.48 16539228.55 0.0136 0.0129

Neptune 40571-01-02 21:36 G 16539315.28 16539315.40 16539315.53 0.0089 0.0068

Uranus 40571-01-04 06:58 G 16539316.68 16539316.79 16539316.93 0.0136 0.0102

Mars 40571-03-31 14:38 G 16539403.05 16539403.11 16539403.17 0.1593 0.1487

Neptune 40571-04-01 01:12 G 16539403.41 16539403.55 16539403.71 0.0089 0.0057

Uranus 40571-04-02 14:53 G 16539404.95 16539405.12 16539405.28 0.0135 0.0074

Neptune 40571-06-28 05:02 G 16539491.55 16539491.71 16539491.88 0.0089 0.0046

Uranus 40571-06-29 21:50 G 16539493.24 16539493.41 16539493.61 0.0135 0.0048

Moon 40571-08-06 12:58 G 16539530.94 16539531.04 16539531.14 0.2654 0.0899

Earth 40571-08-06 13:41 G 16539530.97 16539531.07 16539531.16 0.2652 0.1016 *

Neptune 40571-09-24 08:38 G 16539579.69 16539579.86 16539580.05 0.0089 0.0035

Uranus 40571-09-26 05:31 G 16539581.54 16539581.73 16539581.92 0.0135 0.0020

Neptune 40571-12-21 12:14 G 16539667.83 16539668.01 16539668.21 0.0089 0.0024

Uranus 40571-12-23 12:58 G 16539669.85 16539670.04 16539670.23 0.0135 0.0007

Neptune 40572-03-18 16:05 G 16539755.98 16539756.17 16539756.37 0.0089 0.0013

Uranus 40572-03-20 20:10 G 16539758.16 16539758.34 16539758.53 0.0135 0.0034

Neptune 40572-06-14 19:55 G 16539844.14 16539844.33 16539844.53 0.0089 0.0001

Uranus 40572-06-17 03:22 G 16539846.48 16539846.64 16539846.82 0.0135 0.0060

Neptune 40572-09-10 23:31 G 16539932.29 16539932.48 16539932.68 0.0089 0.0010

Uranus 40572-09-13 10:34 G 16539934.80 16539934.94 16539935.10 0.0135 0.0087

Neptune 40572-12-08 03:22 G 16540020.45 16540020.64 16540020.83 0.0089 0.0021

Uranus 40572-12-10 17:46 G 16540023.15 16540023.24 16540023.35 0.0135 0.0113

Neptune 40573-03-06 06:58 G 16540108.61 16540108.79 16540108.97 0.0089 0.0032

Neptune 40573-06-02 10:34 G 16540196.77 16540196.94 16540197.11 0.0089 0.0043

Neptune 40573-08-29 13:55 G 16540284.94 16540285.08 16540285.25 0.0089 0.0055

Neptune 40573-11-25 17:31 G 16540373.12 16540373.23 16540373.38 0.0089 0.0066

Jupiter 40574-02-19 15:36 G 16540459.01 16540459.15 16540459.29 0.0508 0.0324

Neptune 40574-02-21 21:07 G 16540461.30 16540461.38 16540461.50 0.0089 0.0077

Neptune 40574-05-21 00:43 G 16540549.52 16540549.53 16540549.58 0.0089 0.0088

Moon 40575-02-03 05:17 G 16540807.56 16540807.72 16540807.88 0.2673 0.0795

Earth 40575-02-03 06:00 G 16540807.60 16540807.75 16540807.91 0.2679 0.0800 *

Mars 40575-12-08 05:31 G 16541115.62 16541115.73 16541115.84 0.1940 0.0024

Moon 40578-07-30 15:36 G 16542081.11 16542081.15 16542081.19 0.2646 0.2473

Earth 40578-07-30 15:22 G 16542081.11 16542081.14 16542081.18 0.2653 0.2467 *

Pluto 40579-02-28 13:26 G 16542293.95 16542294.06 16542294.19 0.0075 0.0058

Pluto 40579-05-27 16:05 G 16542382.01 16542382.17 16542382.35 0.0075 0.0038

Pluto 40579-08-23 18:29 G 16542470.09 16542470.27 16542470.47 0.0075 0.0019

Jupiter 40579-10-15 05:31 G 16542522.60 16542522.73 16542522.86 0.0519 0.0051

Venus 40579-10-18 14:38 G 16542526.02 16542526.11 16542526.20 0.3689 0.1764

Pluto 40579-11-19 21:22 G 16542558.19 16542558.39 16542558.59 0.0075 0.0001

Pluto 40580-02-15 23:46 G 16542646.31 16542646.49 16542646.68 0.0075 0.0021

Pluto 40580-05-14 02:24 G 16542734.43 16542734.60 16542734.77 0.0074 0.0040

Pluto 40580-08-10 04:34 G 16542822.59 16542822.69 16542822.82 0.0074 0.0059

Saturn 40584-04-03 06:14 G 16544154.60 16544154.76 16544154.93 0.0279 0.0151

Saturn 40584-07-01 06:29 G 16544243.58 16544243.77 16544243.95 0.0280 0.0053

Moon 40584-08-08 06:14 G 16544281.71 16544281.76 16544281.82 0.2658 0.2235

Earth 40584-08-08 06:29 G 16544281.72 16544281.77 16544281.83 0.2651 0.2260 *

Saturn 40584-09-28 06:14 G 16544332.69 16544332.76 16544332.84 0.0282 0.0258

Mars 40585-04-29 13:41 G 16544546.00 16544546.07 16544546.15 0.1942 0.1454

Venus 40585-05-03 06:14 G 16544549.66 16544549.76 16544549.87 0.3688 0.0281

Jupiter 40585-12-08 12:00 G 16544768.81 16544769.00 16544769.18 0.0507 0.0113

Moon 40588-02-06 14:24 G 16545559.01 16545559.10 16545559.20 0.2678 0.2168

Earth 40588-02-06 16:19 G 16545559.12 16545559.18 16545559.24 0.2680 0.2458 *

Venus 40590-11-16 22:05 G 16546573.34 16546573.42 16546573.50 0.3688 0.2340

Moon 40591-08-02 08:10 G 16546831.74 16546831.84 16546831.93 0.2647 0.1217

Earth 40591-08-02 08:24 G 16546831.76 16546831.85 16546831.95 0.2653 0.1225 *

Jupiter 40591-08-03 09:36 G 16546832.78 16546832.90 16546833.02 0.0519 0.0106

Jupiter 40591-10-31 13:41 G 16546922.03 16546922.07 16546922.12 0.0517 0.0481

Mars 40591-12-18 11:31 G 16546969.91 16546969.98 16546970.06 0.1596 0.1398

Saturn 40597-05-15 13:55 G 16548944.98 16548945.08 16548945.20 0.0284 0.0147

Saturn 40597-08-12 00:58 G 16549033.41 16549033.54 16549033.67 0.0283 0.0007

Jupiter 40597-09-26 08:24 G 16549078.67 16549078.85 16549079.04 0.0507 0.0096

Saturn 40597-11-08 11:46 G 16549121.88 16549121.99 16549122.11 0.0281 0.0133

Saturn 40598-02-04 22:34 G 16549210.41 16549210.44 16549210.48 0.0280 0.0270

Venus 40600-05-29 15:07 G 16550054.10 16550054.13 16550054.17 0.3682 0.3554

Mars 40601-05-10 13:41 G 16550399.90 16550400.07 16550400.24 0.1595 0.0077

Jupiter 40603-05-23 14:10 G 16551142.98 16551143.09 16551143.20 0.0519 0.0256

Jupiter 40603-08-20 18:14 G 16551232.16 16551232.26 16551232.36 0.0517 0.0332

Moon 40604-08-05 00:43 G 16551582.42 16551582.53 16551582.64 0.2650 0.0135

Earth 40604-08-05 01:26 G 16551582.45 16551582.56 16551582.66 0.2652 0.0086 *

Venus 40605-12-13 22:48 G 16552078.34 16552078.45 16552078.56 0.3683 0.2533

Mars 40606-01-16 21:22 G 16552112.33 16552112.39 16552112.45 0.1938 0.1612

Jupiter 40609-07-16 04:34 G 16553388.54 16553388.69 16553388.84 0.0507 0.0310

Mars 40610-09-30 15:22 G 16553830.04 16553830.14 16553830.25 0.1593 0.1267

Saturn 40613-08-22 05:31 G 16554886.60 16554886.73 16554886.87 0.0279 0.0201

Saturn 40613-11-19 05:46 G 16554975.55 16554975.74 16554975.93 0.0280 0.0005

Saturn 40614-02-16 05:31 G 16555064.61 16555064.73 16555064.86 0.0282 0.0208

Uranus 40614-03-26 05:46 G 16555102.70 16555102.74 16555102.80 0.0143 0.0132

Uranus 40614-06-22 09:07 G 16555190.81 16555190.88 16555190.97 0.0143 0.0111

Uranus 40614-09-18 12:43 G 16555278.93 16555279.03 16555279.14 0.0143 0.0089

Uranus 40614-12-15 16:19 G 16555367.06 16555367.18 16555367.29 0.0143 0.0068

Jupiter 40615-03-11 18:29 G 16555453.20 16555453.27 16555453.35 0.0520 0.0407

Uranus 40615-03-13 19:41 G 16555455.20 16555455.32 16555455.45 0.0143 0.0047

Jupiter 40615-06-08 22:34 G 16555542.33 16555542.44 16555542.56 0.0518 0.0182

Mars 40615-06-09 05:31 G 16555542.62 16555542.73 16555542.84 0.1940 0.0152

Uranus 40615-06-09 23:17 G 16555543.34 16555543.47 16555543.60 0.0143 0.0025

Uranus 40615-09-06 02:53 G 16555631.49 16555631.62 16555631.75 0.0143 0.0005

Uranus 40615-12-03 06:14 G 16555719.63 16555719.76 16555719.90 0.0143 0.0018

Uranus 40616-02-29 09:50 G 16555807.79 16555807.91 16555808.04 0.0143 0.0040

Uranus 40616-05-27 13:26 G 16555895.94 16555896.06 16555896.18 0.0143 0.0062

Uranus 40616-08-23 17:02 G 16555984.10 16555984.21 16555984.32 0.0143 0.0083

Uranus 40616-11-19 20:38 G 16556072.27 16556072.36 16556072.45 0.0143 0.0106

Uranus 40617-02-16 00:14 G 16556160.45 16556160.51 16556160.57 0.0144 0.0128

Moon 40617-08-07 17:46 G 16556333.15 16556333.24 16556333.33 0.2655 0.1237

Earth 40617-08-07 18:14 G 16556333.17 16556333.26 16556333.36 0.2651 0.1262 *

Moon 40621-02-04 12:14 G 16557609.84 16557610.01 16557610.17 0.2674 0.0435

Earth 40621-02-04 13:12 G 16557609.88 16557610.05 16557610.21 0.2680 0.0214 *

Jupiter 40621-08-02 13:55 G 16557788.95 16557789.08 16557789.23 0.0508 0.0332

Moon 40624-07-31 20:10 G 16558883.28 16558883.34 16558883.40 0.2646 0.2171

Earth 40624-07-31 20:10 G 16558883.28 16558883.34 16558883.40 0.2653 0.2216 *

Mars 40624-10-29 13:41 G 16558972.99 16558973.07 16558973.15 0.1942 0.1290

Saturn 40626-10-03 17:02 G 16559677.11 16559677.21 16559677.31 0.0284 0.0180

Saturn 40626-12-31 04:05 G 16559765.54 16559765.67 16559765.80 0.0282 0.0039

Jupiter 40627-03-28 03:22 G 16559852.52 16559852.64 16559852.77 0.0519 0.0044

Saturn 40627-03-29 14:53 G 16559854.00 16559854.12 16559854.24 0.0281 0.0100

Saturn 40627-06-26 01:41 G 16559942.51 16559942.57 16559942.64 0.0280 0.0237

Moon 40630-08-10 11:02 G 16561083.93 16561083.96 16561084.00 0.2657 0.2467

Earth 40630-08-10 11:17 G 16561083.94 16561083.97 16561084.00 0.2651 0.2506 *

Venus 40630-11-09 20:24 G 16561175.29 16561175.35 16561175.40 0.3689 0.3042

Jupiter 40633-05-21 09:22 G 16562098.71 16562098.89 16562099.07 0.0507 0.0106

Venus 40636-05-25 12:00 G 16563198.90 16563199.00 16563199.10 0.3689 0.1041

Moon 40637-08-03 12:43 G 16563633.93 16563634.03 16563634.13 0.2648 0.1076

Earth 40637-08-03 13:12 G 16563633.95 16563634.05 16563634.15 0.2652 0.0979 *

Jupiter 40639-01-14 08:10 G 16564162.72 16564162.84 16564162.97 0.0519 0.0105

Jupiter 40639-04-13 12:29 G 16564251.98 16564252.02 16564252.06 0.0517 0.0485

Mars 40640-11-08 14:10 G 16564826.93 16564827.09 16564827.26 0.1595 0.0279

Venus 40641-12-09 03:50 G 16565222.56 16565222.66 16565222.76 0.3688 0.1015

Saturn 40643-01-09 03:50 G 16565618.60 16565618.66 16565618.74 0.0279 0.0258

Saturn 40643-04-08 04:05 G 16565707.48 16565707.67 16565707.85 0.0280 0.0056

Saturn 40643-07-06 04:05 G 16565796.51 16565796.67 16565796.83 0.0281 0.0149

Jupiter 40645-03-09 05:31 G 16566408.55 16566408.73 16566408.92 0.0507 0.0106

Mars 40645-07-17 21:22 G 16566539.35 16566539.39 16566539.43 0.1938 0.1768

Venus 40647-06-24 19:41 G 16567246.26 16567246.32 16567246.37 0.3687 0.3083

Mars 40650-03-31 16:05 G 16568257.05 16568257.17 16568257.30 0.1593 0.1054

Moon 40650-08-06 05:31 G 16568384.62 16568384.73 16568384.83 0.2650 0.0261

Earth 40650-08-06 06:00 G 16568384.65 16568384.75 16568384.86 0.2652 0.0270 *

Jupiter 40650-11-02 12:29 G 16568472.91 16568473.02 16568473.13 0.0519 0.0259

Neptune 40651-01-29 23:31 G 16568561.44 16568561.48 16568561.53 0.0089 0.0082

Jupiter 40651-01-30 16:34 G 16568562.10 16568562.19 16568562.29 0.0517 0.0329

Neptune 40651-04-28 00:43 G 16568649.47 16568649.53 16568649.61 0.0089 0.0074

Neptune 40651-07-25 02:10 G 16568737.51 16568737.59 16568737.68 0.0089 0.0067

Neptune 40651-10-21 03:22 G 16568825.55 16568825.64 16568825.74 0.0089 0.0060

Neptune 40652-01-17 04:34 G 16568913.59 16568913.69 16568913.80 0.0089 0.0052

Neptune 40652-04-14 06:00 G 16569001.64 16569001.75 16569001.86 0.0089 0.0045

Neptune 40652-07-11 07:12 G 16569089.68 16569089.80 16569089.92 0.0089 0.0037

Neptune 40652-10-07 08:38 G 16569177.73 16569177.86 16569177.98 0.0089 0.0030

Neptune 40653-01-03 09:50 G 16569265.78 16569265.91 16569266.04 0.0089 0.0022

Neptune 40653-04-01 11:02 G 16569353.83 16569353.96 16569354.09 0.0089 0.0015

Neptune 40653-06-28 12:29 G 16569441.89 16569442.02 16569442.15 0.0088 0.0008

Neptune 40653-09-24 13:41 G 16569529.94 16569530.07 16569530.20 0.0088 0.0000

Neptune 40653-12-21 14:53 G 16569617.99 16569618.12 16569618.26 0.0088 0.0008

Neptune 40654-03-19 16:19 G 16569706.05 16569706.18 16569706.31 0.0088 0.0015

Neptune 40654-06-15 17:31 G 16569794.10 16569794.23 16569794.36 0.0088 0.0022

Neptune 40654-09-11 18:43 G 16569882.16 16569882.28 16569882.41 0.0088 0.0030

Uranus 40654-10-29 06:58 G 16569929.72 16569929.79 16569929.90 0.0136 0.0121

Mars 40654-12-08 05:31 G 16569969.62 16569969.73 16569969.85 0.1940 0.0340

Neptune 40654-12-08 19:55 G 16569970.22 16569970.33 16569970.46 0.0088 0.0037

Uranus 40655-01-25 14:53 G 16570017.98 16570018.12 16570018.26 0.0136 0.0093

Neptune 40655-03-06 21:22 G 16570058.28 16570058.39 16570058.51 0.0088 0.0044

Uranus 40655-04-23 22:19 G 16570106.26 16570106.43 16570106.60 0.0135 0.0066

Neptune 40655-06-02 22:19 G 16570146.34 16570146.43 16570146.55 0.0088 0.0053

Uranus 40655-07-21 05:46 G 16570194.56 16570194.74 16570194.93 0.0135 0.0038

Neptune 40655-08-29 23:46 G 16570234.40 16570234.49 16570234.60 0.0088 0.0060

Uranus 40655-10-17 13:12 G 16570282.86 16570283.05 16570283.24 0.0135 0.0011

Neptune 40655-11-26 01:12 G 16570322.47 16570322.55 16570322.64 0.0088 0.0067

Uranus 40656-01-13 20:38 G 16570371.17 16570371.36 16570371.55 0.0135 0.0016

Saturn 40656-02-20 20:10 G 16570409.25 16570409.34 16570409.42 0.0285 0.0216

Neptune 40656-02-22 02:24 G 16570410.54 16570410.60 16570410.68 0.0088 0.0074

Uranus 40656-04-11 03:50 G 16570459.48 16570459.66 16570459.85 0.0135 0.0042

Saturn 40656-05-19 06:58 G 16570497.67 16570497.79 16570497.92 0.0283 0.0075

Neptune 40656-05-20 03:50 G 16570498.61 16570498.66 16570498.71 0.0088 0.0082

Uranus 40656-07-08 11:02 G 16570547.80 16570547.96 16570548.13 0.0135 0.0069

Saturn 40656-08-15 17:46 G 16570586.12 16570586.24 16570586.37 0.0282 0.0067

Uranus 40656-10-04 18:14 G 16570636.13 16570636.26 16570636.41 0.0135 0.0095

Saturn 40656-11-12 04:34 G 16570674.61 16570674.69 16570674.79 0.0281 0.0204

Jupiter 40656-12-26 02:10 G 16570718.44 16570718.59 16570718.74 0.0507 0.0313

Uranus 40657-01-01 01:26 G 16570724.49 16570724.56 16570724.65 0.0135 0.0121

Venus 40657-01-03 16:48 G 16570727.07 16570727.20 16570727.34 0.3682 0.1531

Jupiter 40662-08-21 17:02 G 16572783.14 16572783.21 16572783.29 0.0519 0.0406

Jupiter 40662-11-18 21:07 G 16572872.27 16572872.38 16572872.50 0.0518 0.0182

Moon 40663-08-08 22:34 G 16573135.35 16573135.44 16573135.53 0.2656 0.1390

Earth 40663-08-08 23:02 G 16573135.37 16573135.46 16573135.55 0.2651 0.1512 *

Mars 40664-04-29 13:41 G 16573399.98 16573400.07 16573400.16 0.1942 0.1138

Moon 40667-02-05 18:43 G 16574412.12 16574412.28 16574412.45 0.2675 0.0343

Earth 40667-02-05 20:10 G 16574412.18 16574412.34 16574412.50 0.2680 0.0399 *

Jupiter 40669-01-12 12:14 G 16575118.87 16575119.01 16575119.15 0.0508 0.0335

Moon 40670-08-02 00:58 G 16575685.47 16575685.54 16575685.61 0.2646 0.1968

Earth 40670-08-02 00:58 G 16575685.47 16575685.54 16575685.61 0.2653 0.1970 *

Saturn 40672-08-25 02:24 G 16576439.43 16576439.60 16576439.78 0.0279 0.0113

Saturn 40672-11-22 02:24 G 16576528.42 16576528.60 16576528.78 0.0281 0.0091

Jupiter 40674-09-07 01:41 G 16577182.44 16577182.57 16577182.69 0.0518 0.0032

Mars 40680-05-09 14:53 G 16579253.96 16579254.12 16579254.28 0.1595 0.0492

Jupiter 40680-10-31 08:10 G 16579428.66 16579428.84 16579429.02 0.0507 0.0119

Moon 40683-08-04 17:17 G 16580436.12 16580436.22 16580436.32 0.2648 0.0774

Earth 40683-08-04 17:46 G 16580436.14 16580436.24 16580436.35 0.2652 0.0730 *

Saturn 40685-07-09 22:48 G 16581141.39 16581141.45 16581141.51 0.0285 0.0253

Saturn 40685-10-06 09:50 G 16581229.79 16581229.91 16581230.02 0.0283 0.0112

Saturn 40686-01-02 20:38 G 16581318.23 16581318.36 16581318.49 0.0282 0.0029

Saturn 40686-04-01 07:26 G 16581406.71 16581406.81 16581406.92 0.0281 0.0167

Jupiter 40686-06-26 06:29 G 16581492.65 16581492.77 16581492.89 0.0519 0.0111

Jupiter 40686-09-23 10:34 G 16581581.90 16581581.94 16581581.99 0.0517 0.0479

Venus 40687-06-16 17:46 G 16581848.16 16581848.24 16581848.32 0.3689 0.2333

Mars 40689-09-29 16:48 G 16582684.06 16582684.20 16582684.35 0.1593 0.0844

Jupiter 40692-08-19 03:36 G 16583738.47 16583738.65 16583738.84 0.0507 0.0104

Venus 40692-12-30 09:22 G 16583871.79 16583871.89 16583872.00 0.3688 0.0345

Mars 40694-06-08 05:17 G 16584396.61 16584396.72 16584396.83 0.1940 0.0477

Moon 40696-08-06 10:05 G 16585186.82 16585186.92 16585187.03 0.2652 0.0382

Earth 40696-08-06 10:48 G 16585186.84 16585186.95 16585187.05 0.2652 0.0519 *

Jupiter 40698-04-14 11:17 G 16585802.86 16585802.97 16585803.08 0.0520 0.0253

Uranus 40698-04-15 13:12 G 16585804.00 16585804.05 16585804.12 0.0142 0.0126

Jupiter 40698-07-12 15:36 G 16585892.05 16585892.15 16585892.24 0.0518 0.0337

Uranus 40698-07-12 16:48 G 16585892.12 16585892.20 16585892.29 0.0143 0.0104 *

Venus 40698-07-16 01:12 G 16585895.46 16585895.55 16585895.64 0.3688 0.1751

Uranus 40698-10-08 20:24 G 16585980.24 16585980.35 16585980.45 0.0143 0.0083

Uranus 40699-01-04 23:46 G 16586068.37 16586068.49 16586068.61 0.0143 0.0062

Uranus 40699-04-03 03:22 G 16586156.51 16586156.64 16586156.76 0.0143 0.0041

Uranus 40699-06-30 06:43 G 16586244.65 16586244.78 16586244.91 0.0143 0.0020

Uranus 40699-09-26 10:19 G 16586332.80 16586332.93 16586333.06 0.0143 0.0002

Uranus 40699-12-23 13:55 G 16586420.95 16586421.08 16586421.21 0.0143 0.0024

Moon 40700-02-03 16:34 G 16586463.10 16586463.19 16586463.28 0.2672 0.2259

Earth 40700-02-03 16:48 G 16586463.12 16586463.20 16586463.29 0.2679 0.2278 *

Uranus 40700-03-21 17:17 G 16586509.10 16586509.22 16586509.35 0.0143 0.0046

Uranus 40700-06-17 20:53 G 16586597.26 16586597.37 16586597.49 0.0143 0.0068

Uranus 40700-09-14 00:29 G 16586685.42 16586685.52 16586685.63 0.0143 0.0090

Uranus 40700-12-11 04:05 G 16586773.59 16586773.67 16586773.75 0.0143 0.0112

Uranus 40701-03-09 07:41 G 16586861.78 16586861.82 16586861.87 0.0144 0.0134

Saturn 40702-01-13 00:00 G 16587171.35 16587171.50 16587171.65 0.0279 0.0177

Saturn 40702-04-12 00:00 G 16587260.31 16587260.50 16587260.69 0.0280 0.0027

Saturn 40702-07-10 00:00 G 16587349.40 16587349.50 16587349.61 0.0281 0.0231

Mars 40703-10-30 13:41 G 16587826.97 16587827.07 16587827.17 0.1942 0.0957

Jupiter 40704-06-08 00:00 G 16588048.35 16588048.50 16588048.65 0.0506 0.0314

Moon 40709-08-10 03:22 G 16589937.56 16589937.64 16589937.72 0.2656 0.1761

Earth 40709-08-10 03:50 G 16589937.58 16589937.66 16589937.74 0.2651 0.1760 *

Jupiter 40710-02-01 15:36 G 16590113.08 16590113.15 16590113.23 0.0519 0.0405

Jupiter 40710-05-01 19:55 G 16590202.21 16590202.33 16590202.44 0.0518 0.0184

Moon 40713-02-07 01:41 G 16591214.41 16591214.57 16591214.73 0.2676 0.0701

Earth 40713-02-07 03:07 G 16591214.48 16591214.63 16591214.79 0.2680 0.0998 *

Venus 40713-08-11 18:43 G 16591400.13 16591400.28 16591400.43 0.3682 0.0504

Saturn 40715-02-24 12:29 G 16591961.91 16591962.02 16591962.13 0.0284 0.0152

Saturn 40715-05-23 23:17 G 16592050.34 16592050.47 16592050.60 0.0283 0.0011

Saturn 40715-08-20 10:05 G 16592138.81 16592138.92 16592139.04 0.0282 0.0130

Saturn 40715-11-16 21:07 G 16592227.34 16592227.38 16592227.42 0.0281 0.0267

Jupiter 40716-06-25 10:19 G 16592448.79 16592448.93 16592449.07 0.0508 0.0338

Moon 40716-08-03 05:31 G 16592487.65 16592487.73 16592487.81 0.2647 0.1748

Earth 40716-08-03 05:31 G 16592487.65 16592487.73 16592487.81 0.2653 0.1719 *

Mars 40719-11-09 15:50 G 16593681.00 16593681.16 16593681.31 0.1595 0.0712

Jupiter 40722-02-18 00:29 G 16594512.40 16594512.52 16594512.65 0.0518 0.0038

Jupiter 40728-04-13 06:43 G 16596758.60 16596758.78 16596758.97 0.0508 0.0129

Mars 40729-03-31 17:31 G 16597111.08 16597111.23 16597111.39 0.1593 0.0625

Moon 40729-08-05 22:05 G 16597238.31 16597238.42 16597238.52 0.2648 0.0579

Earth 40729-08-05 22:34 G 16597238.33 16597238.44 16597238.54 0.2652 0.0479 *

Saturn 40731-06-01 21:50 G 16597903.31 16597903.41 16597903.50 0.0278 0.0239

Saturn 40731-08-29 21:50 G 16597992.22 16597992.41 16597992.60 0.0280 0.0036

Saturn 40731-11-26 21:36 G 16598081.26 16598081.40 16598081.56 0.0281 0.0168

Jupiter 40733-12-07 05:02 G 16598822.59 16598822.71 16598822.83 0.0519 0.0112

Mars 40733-12-08 05:31 G 16598823.62 16598823.73 16598823.84 0.1940 0.0652

Jupiter 40734-03-06 09:07 G 16598911.84 16598911.88 16598911.93 0.0517 0.0476

Neptune 40735-07-05 15:07 G 16599398.05 16599398.13 16599398.23 0.0089 0.0078

Neptune 40735-10-01 18:43 G 16599486.17 16599486.28 16599486.42 0.0089 0.0067

Neptune 40735-12-28 22:19 G 16599574.30 16599574.43 16599574.60 0.0089 0.0056

Neptune 40736-03-26 02:10 G 16599662.43 16599662.59 16599662.77 0.0089 0.0045

Neptune 40736-06-22 06:00 G 16599750.58 16599750.75 16599750.94 0.0089 0.0033

Neptune 40736-09-18 09:50 G 16599838.72 16599838.91 16599839.10 0.0089 0.0022

Neptune 40736-12-15 13:26 G 16599926.87 16599927.06 16599927.26 0.0089 0.0011

Neptune 40737-03-13 17:17 G 16600015.02 16600015.22 16600015.41 0.0089 0.0001

Neptune 40737-06-09 20:53 G 16600103.18 16600103.37 16600103.57 0.0089 0.0012

Neptune 40737-09-06 00:29 G 16600191.34 16600191.52 16600191.71 0.0089 0.0023

Neptune 40737-12-03 04:05 G 16600279.50 16600279.67 16600279.86 0.0089 0.0034

Neptune 40738-03-01 07:41 G 16600367.66 16600367.82 16600368.00 0.0089 0.0045

Neptune 40738-05-28 11:17 G 16600455.83 16600455.97 16600456.13 0.0089 0.0056

Venus 40738-07-08 23:31 G 16600497.47 16600497.48 16600497.50 0.3689 0.3613

Neptune 40738-08-24 14:53 G 16600544.01 16600544.12 16600544.26 0.0089 0.0067

Uranus 40738-11-19 14:24 G 16600631.01 16600631.10 16600631.23 0.0136 0.0113

Neptune 40738-11-20 18:43 G 16600632.20 16600632.28 16600632.38 0.0089 0.0078

Uranus 40739-02-15 22:19 G 16600719.28 16600719.43 16600719.59 0.0136 0.0085

Uranus 40739-05-15 05:46 G 16600807.57 16600807.74 16600807.92 0.0136 0.0058

Uranus 40739-08-11 13:12 G 16600895.87 16600896.05 16600896.25 0.0135 0.0031

Uranus 40739-11-07 20:38 G 16600984.17 16600984.36 16600984.56 0.0135 0.0005

Jupiter 40740-01-31 02:53 G 16601068.44 16601068.62 16601068.81 0.0507 0.0086

Uranus 40740-02-04 04:05 G 16601072.48 16601072.67 16601072.86 0.0135 0.0024

Uranus 40740-05-02 11:17 G 16601160.80 16601160.97 16601161.16 0.0135 0.0051

Pluto 40740-06-03 10:05 G 16601192.86 16601192.92 16601192.99 0.0069 0.0060

Uranus 40740-07-29 18:29 G 16601249.13 16601249.27 16601249.44 0.0135 0.0077

Pluto 40740-08-30 10:34 G 16601280.86 16601280.94 16601281.04 0.0069 0.0050

Uranus 40740-10-26 01:55 G 16601337.46 16601337.58 16601337.71 0.0135 0.0103

Pluto 40740-11-26 11:02 G 16601368.86 16601368.96 16601369.08 0.0069 0.0040

Uranus 40741-01-22 09:07 G 16601425.83 16601425.88 16601425.94 0.0135 0.0129

Pluto 40741-02-22 11:46 G 16601456.87 16601456.99 16601457.11 0.0069 0.0029

Pluto 40741-05-21 12:14 G 16601544.89 16601545.01 16601545.14 0.0069 0.0019

Pluto 40741-08-17 12:43 G 16601632.91 16601633.03 16601633.17 0.0069 0.0009

Pluto 40741-11-13 13:26 G 16601720.93 16601721.06 16601721.19 0.0069 0.0002

Pluto 40742-02-09 13:55 G 16601808.95 16601809.08 16601809.21 0.0069 0.0012

Pluto 40742-05-08 14:24 G 16601896.98 16601897.10 16601897.23 0.0069 0.0023

Pluto 40742-08-04 14:53 G 16601985.01 16601985.12 16601985.24 0.0070 0.0034

Moon 40742-08-08 14:53 G 16601989.02 16601989.12 16601989.22 0.2654 0.0712

Earth	40742-08-08 15:22 G	16601989.04	16601989.14	16601989.25	0.2652	0.0770 *
Pluto	40742-10-31 15:36 G	16602073.05	16602073.15	16602073.25	0.0070	0.0044
Pluto	40743-01-27 16:05 G	16602161.10	16602161.17	16602161.25	0.0070	0.0055
Pluto	40743-04-25 16:19 G	16602249.16	16602249.18	16602249.24	0.0070	0.0066
Mars	40743-04-30 13:26 G	16602253.96	16602254.06	16602254.17	0.1941	0.0812
Venus	40744-01-22 15:07 G	16602521.04	16602521.13	16602521.23	0.3689	0.1612
Saturn	40744-07-13 14:24 G	16602694.02	16602694.10	16602694.20	0.0284	0.0196
Saturn	40744-10-10 01:26 G	16602782.44	16602782.56	16602782.69	0.0283	0.0054
Saturn	40745-01-06 12:29 G	16602870.90	16602871.02	16602871.14	0.0282	0.0086
Saturn	40745-04-04 23:17 G	16602959.40	16602959.47	16602959.55	0.0281	0.0225
Jupiter	40745-09-25 09:50 G	16603132.80	16603132.91	16603133.02	0.0519	0.0255
Jupiter	40745-12-23 13:55 G	16603221.99	16603222.08	16603222.18	0.0518	0.0335
Moon	40746-02-04 23:17 G	16603265.35	16603265.47	16603265.60	0.2673	0.1760
Earth	40746-02-05 00:00 G	16603265.37	16603265.50	16603265.63	0.2679	0.1672 *
Venus	40749-08-07 06:58 G	16604544.69	16604544.79	16604544.89	0.3688	0.0436
Jupiter	40751-11-18 22:34 G	16605378.29	16605378.44	16605378.59	0.0506	0.0305
Venus	40755-02-20 22:48 G	16606568.37	16606568.45	16606568.52	0.3688	0.2502
Moon	40755-08-11 08:10 G	16606739.76	16606739.84	16606739.91	0.2656	0.1908
Earth	40755-08-11 08:24 G	16606739.78	16606739.85	16606739.92	0.2651	0.2011 *
Jupiter	40757-07-14 14:38 G	16607443.03	16607443.11	16607443.19	0.0520	0.0396
Jupiter	40757-10-11 18:58 G	16607532.17	16607532.29	16607532.40	0.0518	0.0194
Moon	40759-02-08 08:24 G	16608016.71	16608016.85	16608016.99	0.2676	0.1440
Earth	40759-02-08 10:19 G	16608016.79	16608016.93	16608017.06	0.2680	0.1587 *
Mars	40759-05-10 16:19 G	16608108.04	16608108.18	16608108.32	0.1595	0.0919
Saturn	40761-01-15 18:29 G	16608724.09	16608724.27	16608724.45	0.0279	0.0108
Saturn	40761-04-14 18:29 G	16608813.09	16608813.27	16608813.45	0.0280	0.0096
Moon	40762-08-04 10:05 G	16609289.83	16609289.92	16609290.01	0.2647	0.1467
Earth	40762-08-04 10:19 G	16609289.84	16609289.93	16609290.02	0.2653	0.1466 *
Jupiter	40763-12-06 08:53 G	16609778.73	16609778.87	16609779.00	0.0508	0.0346
Venus	40764-09-01 12:29 G	16610049.01	16610049.02	16610049.04	0.3682	0.3658

Mars 40768-09-29 18:14 G 16611538.10 16611538.26 16611538.43 0.1593 0.0412

Jupiter 40769-07-30 23:17 G 16611842.35 16611842.47 16611842.60 0.0518 0.0045

Venus 40770-03-18 20:24 G 16612073.24 16612073.35 16612073.46 0.3683 0.2532

Mars 40773-06-08 05:31 G 16613250.63 16613250.73 16613250.83 0.1940 0.0820

Saturn 40773-11-30 16:48 G 16613426.13 16613426.20 16613426.27 0.0285 0.0240

Saturn 40774-02-27 03:50 G 16613514.54 16613514.66 16613514.78 0.0284 0.0098

Saturn 40774-05-26 14:38 G 16613602.98 16613603.11 16613603.24 0.0283 0.0044

Saturn 40774-08-23 01:41 G 16613691.47 16613691.57 16613691.67 0.0282 0.0183

Moon 40775-08-07 02:38 G 16614040.50 16614040.61 16614040.72 0.2649 0.0310

Earth 40775-08-07 03:22 G 16614040.53 16614040.64 16614040.74 0.2652 0.0255 *

Jupiter 40775-09-24 05:17 G 16614088.54 16614088.72 16614088.90 0.0508 0.0137

Jupiter 40781-05-19 04:05 G 16616152.55 16616152.67 16616152.79 0.0518 0.0101

Jupiter 40781-08-16 08:10 G 16616241.80 16616241.84 16616241.88 0.0517 0.0486

Uranus 40782-02-07 17:31 G 16616417.21 16616417.23 16616417.26 0.0142 0.0139

Uranus 40782-05-06 20:53 G 16616505.31 16616505.37 16616505.45 0.0142 0.0118

Uranus 40782-08-03 00:14 G 16616593.43 16616593.51 16616593.62 0.0143 0.0098

Mars 40782-10-29 13:41 G 16616680.96 16616681.07 16616681.17 0.1941 0.0644

Uranus 40782-10-30 03:50 G 16616681.56 16616681.66 16616681.78 0.0143 0.0076

Uranus 40783-01-26 07:26 G 16616769.69 16616769.81 16616769.93 0.0143 0.0055

Uranus 40783-04-24 10:48 G 16616857.83 16616857.95 16616858.08 0.0143 0.0034

Uranus 40783-07-21 14:24 G 16616945.97 16616946.10 16616946.23 0.0143 0.0012

Uranus 40783-10-17 18:00 G 16617034.12 16617034.25 16617034.38 0.0143 0.0010

Uranus 40784-01-13 21:22 G 16617122.27 16617122.39 16617122.52 0.0143 0.0032

Uranus 40784-04-11 00:58 G 16617210.42 16617210.54 16617210.67 0.0143 0.0053

Uranus 40784-07-08 04:34 G 16617298.58 16617298.69 16617298.80 0.0143 0.0075

Uranus 40784-10-04 08:10 G 16617386.74 16617386.84 16617386.94 0.0143 0.0097

Uranus 40784-12-31 11:46 G 16617474.92 16617474.99 16617475.06 0.0143 0.0119

Uranus 40785-03-29 15:22 G 16617563.12 16617563.14 16617563.16 0.0144 0.0141

Jupiter 40787-07-13 01:55 G 16618398.39 16618398.58 16618398.76 0.0507 0.0072

Moon 40788-08-08 19:41 G 16618791.22 16618791.32 16618791.42 0.2655 0.0912

Earth 40788-08-08 20:10 G 16618791.24 16618791.34 16618791.44 0.2652 0.1017 *

Saturn 40790-06-04 15:22 G 16619456.00 16619456.14 16619456.30 0.0278 0.0176

Saturn 40790-09-01 15:36 G 16619544.96 16619545.15 16619545.34 0.0280 0.0028

Saturn 40790-11-29 15:22 G 16619634.04 16619634.14 16619634.25 0.0281 0.0232

Moon 40792-02-06 06:00 G 16620067.60 16620067.75 16620067.90 0.2674 0.1234

Earth 40792-02-06 06:58 G 16620067.64 16620067.79 16620067.95 0.2679 0.1073 *

Jupiter 40793-03-07 08:38 G 16620462.75 16620462.86 16620462.97 0.0519 0.0250

Jupiter 40793-06-04 12:43 G 16620551.94 16620552.03 16620552.13 0.0517 0.0338

Venus 40795-02-12 21:07 G 16621170.31 16621170.38 16621170.44 0.3689 0.2897

Moon 40795-08-02 22:19 G 16621341.38 16621341.43 16621341.47 0.2647 0.2368

Earth 40795-08-02 22:05 G 16621341.38 16621341.42 16621341.46 0.2653 0.2456 *

Mars 40798-11-08 17:02 G 16622535.09 16622535.21 16622535.33 0.1595 0.1134

Jupiter 40799-04-30 22:05 G 16622708.27 16622708.42 16622708.58 0.0507 0.0283

Venus 40800-08-28 12:43 G 16623193.93 16623194.03 16623194.13 0.3689 0.0870

Moon 40801-08-11 12:58 G 16623541.99 16623542.04 16623542.09 0.2657 0.2271

Earth 40801-08-11 13:12 G 16623541.99 16623542.05 16623542.10 0.2651 0.2255 *

Saturn 40803-07-17 05:31 G 16624246.63 16624246.73 16624246.85 0.0284 0.0146

Saturn 40803-10-13 16:34 G 16624335.06 16624335.19 16624335.32 0.0283 0.0007

Saturn 40804-01-10 03:36 G 16624423.53 16624423.65 16624423.76 0.0282 0.0136

Saturn 40804-04-07 14:24 G 16624512.08 16624512.10 16624512.12 0.0280 0.0274

Jupiter 40804-12-24 13:26 G 16624772.98 16624773.06 16624773.14 0.0520 0.0393

Moon 40805-02-08 15:36 G 16624819.03 16624819.15 16624819.26 0.2677 0.1901

Earth 40805-02-08 17:17 G 16624819.13 16624819.22 16624819.32 0.2680 0.2187 *

Jupiter 40805-03-23 17:31 G 16624862.12 16624862.23 16624862.35 0.0518 0.0197

Venus 40806-03-14 04:34 G 16625217.59 16625217.69 16625217.78 0.3688 0.1191

Mars 40808-03-30 18:58 G 16625965.12 16625965.29 16625965.46 0.1593 0.0204

Moon 40808-08-04 14:38 G 16626092.02 16626092.11 16626092.20 0.2647 0.1312

Earth 40808-08-04 15:07 G 16626092.03 16626092.13 16626092.22 0.2653 0.1220 *

Jupiter 40811-02-16 18:00 G 16627018.22 16627018.25 16627018.28 0.0506 0.0499

Jupiter 40811-05-18 07:41 G 16627108.69 16627108.82 16627108.96 0.0508 0.0361

Venus 40811-09-27 20:10 G 16627241.30 16627241.34 16627241.39 0.3687 0.3266

Mars 40812-12-07 05:17 G 16627677.63 16627677.72 16627677.82 0.1940 0.0971

Neptune 40815-07-31 21:36 G 16628644.39 16628644.40 16628644.42 0.0089 0.0088

Neptune 40815-10-27 22:48 G 16628732.41 16628732.45 16628732.51 0.0089 0.0080

Neptune 40816-01-24 00:14 G 16628820.44 16628820.51 16628820.58 0.0089 0.0073

Neptune 40816-04-21 01:26 G 16628908.48 16628908.56 16628908.65 0.0089 0.0066

Neptune 40816-07-18 02:38 G 16628996.52 16628996.61 16628996.71 0.0089 0.0058

Neptune 40816-10-14 04:05 G 16629084.56 16629084.67 16629084.78 0.0089 0.0051

Jupiter 40817-01-09 22:34 G 16629172.32 16629172.44 16629172.57 0.0519 0.0057

Neptune 40817-01-10 05:17 G 16629172.61 16629172.72 16629172.84 0.0089 0.0043

Neptune 40817-04-08 06:43 G 16629260.66 16629260.78 16629260.90 0.0089 0.0036

Neptune 40817-07-05 07:55 G 16629348.71 16629348.83 16629348.95 0.0089 0.0028

Mars 40817-08-20 20:53 G 16629395.33 16629395.37 16629395.41 0.1592 0.1534

Neptune 40817-10-01 09:07 G 16629436.75 16629436.88 16629437.01 0.0089 0.0021

Neptune 40817-12-28 10:34 G 16629524.81 16629524.94 16629525.07 0.0089 0.0014

Neptune 40818-03-26 11:46 G 16629612.86 16629612.99 16629613.12 0.0088 0.0006

Neptune 40818-06-22 12:58 G 16629700.91 16629701.04 16629701.17 0.0088 0.0002

Neptune 40818-09-18 14:10 G 16629788.96 16629789.09 16629789.23 0.0088 0.0009

Neptune 40818-12-15 15:36 G 16629877.02 16629877.15 16629877.28 0.0088 0.0016

Neptune 40819-03-13 16:48 G 16629965.08 16629965.20 16629965.33 0.0088 0.0024

Neptune 40819-06-09 18:00 G 16630053.13 16630053.25 16630053.38 0.0088 0.0031

Neptune 40819-09-05 19:12 G 16630141.19 16630141.30 16630141.43 0.0088 0.0039

Saturn 40819-10-22 11:46 G 16630187.91 16630187.99 16630188.07 0.0278 0.0250

Neptune 40819-12-02 20:38 G 16630229.25 16630229.36 16630229.47 0.0088 0.0046

Saturn 40820-01-19 11:46 G 16630276.80 16630276.99 16630277.18 0.0279 0.0048

Neptune 40820-02-28 21:50 G 16630317.31 16630317.41 16630317.52 0.0088 0.0054

Saturn 40820-04-17 11:31 G 16630365.83 16630365.98 16630366.14 0.0280 0.0156

Neptune 40820-05-26 23:17 G 16630405.38 16630405.47 16630405.56 0.0088 0.0061

Neptune 40820-08-23 00:14 G 16630493.44 16630493.51 16630493.61 0.0088 0.0069

Neptune 40820-11-19 01:41 G 16630581.51 16630581.57 16630581.64 0.0088 0.0076

Neptune 40821-02-15 02:53 G 16630669.59 16630669.62 16630669.67 0.0088 0.0083

Venus 40821-04-08 14:24 G 16630721.97 16630722.10 16630722.24 0.3682 0.1577

Moon 40821-08-07 07:26 G 16630842.70 16630842.81 16630842.91 0.2651 0.0107

Earth 40821-08-07 07:55 G 16630842.72 16630842.83 16630842.94 0.2652 0.0045 *

Mars 40822-04-29 13:26 G 16631107.95 16631108.06 16631108.18 0.1942 0.0478

Uranus 40822-09-12 15:07 G 16631244.09 16631244.13 16631244.20 0.0136 0.0130

Uranus 40822-12-09 23:02 G 16631332.33 16631332.46 16631332.59 0.0136 0.0102

Jupiter 40823-03-06 04:19 G 16631418.50 16631418.68 16631418.86 0.0507 0.0153

Uranus 40823-03-08 06:29 G 16631420.61 16631420.77 16631420.93 0.0136 0.0075

Uranus 40823-06-04 13:55 G 16631508.90 16631509.08 16631509.27 0.0135 0.0047

Uranus 40823-08-31 21:22 G 16631597.20 16631597.39 16631597.59 0.0135 0.0020

Uranus 40823-11-28 04:48 G 16631685.51 16631685.70 16631685.90 0.0135 0.0008

Uranus 40824-02-24 12:00 G 16631773.82 16631774.00 16631774.20 0.0135 0.0035

Uranus 40824-05-22 19:26 G 16631862.14 16631862.31 16631862.49 0.0135 0.0061

Uranus 40824-08-19 02:38 G 16631950.47 16631950.61 16631950.77 0.0135 0.0087

Uranus 40824-11-15 10:05 G 16632038.82 16632038.92 16632039.03 0.0135 0.0113

Pluto 40826-10-03 21:22 G 16632726.27 16632726.39 16632726.53 0.0075 0.0056

Pluto 40826-12-31 00:00 G 16632814.34 16632814.50 16632814.68 0.0075 0.0036

Pluto 40827-03-29 02:38 G 16632902.42 16632902.61 16632902.81 0.0075 0.0017

Pluto 40827-06-25 05:17 G 16632990.53 16632990.72 16632990.92 0.0075 0.0003

Pluto 40827-09-21 07:41 G 16633078.64 16633078.82 16633079.02 0.0075 0.0023

Pluto 40827-12-18 10:05 G 16633166.77 16633166.92 16633167.09 0.0074 0.0043

Pluto 40828-03-15 12:43 G 16633254.93 16633255.03 16633255.15 0.0074 0.0062

Jupiter 40828-10-29 03:07 G 16633482.51 16633482.63 16633482.76 0.0518 0.0091

Jupiter 40829-01-26 07:12 G 16633571.77 16633571.80 16633571.84 0.0517 0.0496

Mars 40831-09-19 21:50 G 16634538.39 16634538.41 16634538.42 0.1943 0.1923

Saturn 40832-12-03 07:26 G 16634978.72 16634978.81 16634978.90 0.0285 0.0195

Saturn 40833-03-01 18:29 G 16635067.14 16635067.27 16635067.40 0.0284 0.0053

Saturn 40833-05-29 05:17 G 16635155.60 16635155.72 16635155.85 0.0283 0.0089

Saturn 40833-08-25 16:19 G 16635244.11 16635244.18 16635244.26 0.0281 0.0228

Moon 40834-08-10 00:14 G 16635593.42 16635593.51 16635593.61 0.2655 0.1198

Earth 40834-08-10 00:58 G 16635593.45 16635593.54 16635593.63 0.2652 0.1266 *

Jupiter 40834-12-23 00:43 G 16635728.34 16635728.53 16635728.72 0.0508 0.0059

Moon 40838-02-06 12:43 G 16636869.87 16636870.03 16636870.20 0.2674 0.0568

Earth 40838-02-06 14:10 G 16636869.93 16636870.09 16636870.25 0.2679 0.0466 *

Mars 40838-05-09 17:46 G 16636962.15 16636962.24 16636962.33 0.1595 0.1348

Jupiter 40840-08-17 07:55 G 16637792.72 16637792.83 16637792.95 0.0519 0.0234

Jupiter 40840-11-14 12:00 G 16637881.91 16637882.00 16637882.10 0.0517 0.0354

Moon 40841-08-03 02:53 G 16638143.56 16638143.62 16638143.67 0.2647 0.2248

Earth 40841-08-03 02:53 G 16638143.56 16638143.62 16638143.67 0.2653 0.2209 *

Jupiter 40846-10-10 21:22 G 16640038.23 16640038.39 16640038.55 0.0507 0.0266

Moon 40847-08-12 17:46 G 16640344.21 16640344.24 16640344.28 0.2658 0.2478

Earth 40847-08-12 18:00 G 16640344.21 16640344.25 16640344.28 0.2651 0.2509 *

Mars 40847-09-29 19:41 G 16640392.15 16640392.32 16640392.49 0.1593 0.0033

Saturn 40849-06-07 08:10 G 16641008.68 16641008.84 16641009.02 0.0278 0.0120

Saturn 40849-09-04 08:10 G 16641097.66 16641097.84 16641098.03 0.0280 0.0084

Moon 40851-02-09 22:34 G 16641621.40 16641621.44 16641621.48 0.2678 0.2584

Venus 40851-09-19 18:29 G 16641843.19 16641843.27 16641843.35 0.3689 0.2167

Jupiter 40852-06-05 12:29 G 16642102.94 16642103.02 16642103.11 0.0519 0.0383

Mars 40852-06-07 05:17 G 16642104.63 16642104.72 16642104.82 0.1940 0.1142

Jupiter 40852-09-02 16:34 G 16642192.08 16642192.19 16642192.31 0.0518 0.0206

Moon 40854-08-05 19:26 G 16642894.21 16642894.31 16642894.41 0.2647 0.0972

Earth 40854-08-05 19:41 G 16642894.22 16642894.32 16642894.42 0.2653 0.0971 *

Mars 40857-02-18 21:36 G 16643822.31 16643822.40 16643822.49 0.1592 0.1323

Venus 40857-04-04 10:05 G 16643866.82 16643866.92 16643867.03 0.3688 0.0189

Jupiter 40858-07-29 17:46 G 16644348.18 16644348.24 16644348.30 0.0506 0.0475

Jupiter 40858-10-28 07:41 G 16644438.70 16644438.82 16644438.94 0.0508 0.0387

Mars 40861-10-28 13:26 G 16645534.95 16645535.06 16645535.17 0.1941 0.0315

Saturn 40862-04-22 09:07 G 16645710.82 16645710.88 16645710.94 0.0286 0.0247

Saturn 40862-07-19 19:55 G 16645799.22 16645799.33 16645799.46 0.0284 0.0105

Saturn 40862-10-16 06:58 G 16645887.66 16645887.79 16645887.92 0.0283 0.0039

Venus 40862-10-19 01:55 G 16645890.49 16645890.58 16645890.67 0.3688 0.1928

Saturn 40863-01-12 18:00 G 16645976.15 16645976.25 16645976.35 0.0282 0.0178

Jupiter 40864-06-21 21:22 G 16646502.27 16646502.39 16646502.52 0.0518 0.0066

Uranus 40866-02-28 01:41 G 16647118.52 16647118.57 16647118.62 0.0142 0.0130

Uranus 40866-05-27 05:02 G 16647206.63 16647206.71 16647206.80 0.0142 0.0109

Uranus 40866-08-23 08:38 G 16647294.76 16647294.86 16647294.96 0.0143 0.0088

Uranus 40866-11-19 12:00 G 16647382.89 16647383.00 16647383.12 0.0143 0.0067

Uranus 40867-02-15 15:22 G 16647471.02 16647471.14 16647471.27 0.0143 0.0046

Uranus 40867-05-14 18:58 G 16647559.16 16647559.29 16647559.42 0.0143 0.0024

Moon 40867-08-08 12:00 G 16647644.89 16647645.00 16647645.11 0.2652 0.0138

Earth 40867-08-08 12:43 G 16647644.92 16647645.03 16647645.14 0.2652 0.0276 *

Uranus 40867-08-10 22:34 G 16647647.31 16647647.44 16647647.57 0.0143 0.0003

Uranus 40867-11-07 02:10 G 16647735.46 16647735.59 16647735.72 0.0143 0.0020

Uranus 40868-02-03 05:31 G 16647823.61 16647823.73 16647823.86 0.0143 0.0041

Uranus 40868-05-01 09:07 G 16647911.76 16647911.88 16647912.00 0.0143 0.0063

Uranus 40868-07-28 12:43 G 16647999.92 16648000.03 16648000.14 0.0143 0.0085

Uranus 40868-10-24 16:19 G 16648088.09 16648088.18 16648088.27 0.0143 0.0107

Uranus 40869-01-20 19:55 G 16648176.27 16648176.33 16648176.39 0.0144 0.0129

Jupiter 40870-08-16 03:36 G 16648748.48 16648748.65 16648748.83 0.0507 0.0172

Mars 40871-03-20 21:36 G 16648965.36 16648965.40 16648965.44 0.1943 0.1776

Jupiter 40876-04-10 02:24 G 16650812.48 16650812.60 16650812.73 0.0519 0.0076

Jupiter 40876-07-08 06:43 G 16650901.76 16650901.78 16650901.79 0.0517 0.0512

Mars 40877-11-07 18:29 G 16651389.24 16651389.27 16651389.30 0.1595 0.1559

Venus 40877-11-13 16:19 G 16651395.03 16651395.18 16651395.33 0.3682 0.0475

Saturn 40878-10-25 04:05 G 16651740.54 16651740.67 16651740.81 0.0278 0.0198

Saturn 40879-01-22 04:05 G 16651829.48 16651829.67 16651829.86 0.0279 0.0004

Saturn 40879-04-21 03:50 G 16651918.54 16651918.66 16651918.79 0.0280 0.0207

Moon 40880-08-10 05:02 G 16652395.62 16652395.71 16652395.80 0.2655 0.1452

Earth 40880-08-10 05:46 G 16652395.65 16652395.74 16652395.82 0.2651 0.1518 *

Jupiter 40882-06-04 00:14 G 16653058.32 16653058.51 16653058.70 0.0507 0.0036

Moon 40884-02-07 19:41 G 16653672.16 16653672.32 16653672.49 0.2675 0.0157

Earth 40884-02-07 21:07 G 16653672.22 16653672.38 16653672.55 0.2680 0.0152 *

Mars 40887-03-30 20:24 G 16654819.18 16654819.35 16654819.52 0.1594 0.0233

Moon 40887-08-04 07:26 G 16654945.74 16654945.81 16654945.88 0.2646 0.1918

Earth 40887-08-04 07:26 G 16654945.74 16654945.81 16654945.88 0.2653 0.1959 *

Jupiter 40888-01-28 07:12 G 16655122.69 16655122.80 16655122.91 0.0519 0.0221

Jupiter 40888-04-26 11:17 G 16655211.88 16655211.97 16655212.06 0.0517 0.0366

Saturn 40891-12-06 21:36 G 16656531.30 16656531.40 16656531.51 0.0285 0.0156

Mars 40891-12-07 05:31 G 16656531.64 16656531.73 16656531.81 0.1939 0.1320

Saturn 40892-03-04 08:38 G 16656619.73 16656619.86 16656619.99 0.0284 0.0013

Saturn 40892-05-31 19:41 G 16656708.20 16656708.32 16656708.43 0.0283 0.0128

Saturn 40892-08-28 06:29 G 16656796.74 16656796.77 16656796.81 0.0281 0.0268

Jupiter 40894-03-22 20:10 G 16657368.18 16657368.34 16657368.51 0.0507 0.0252

Mars 40896-08-19 22:19 G 16658249.31 16658249.43 16658249.55 0.1592 0.1103

Jupiter 40899-11-16 12:00 G 16659432.91 16659433.00 16659433.09 0.0519 0.0362

Neptune 40900-01-03 08:10 G 16659480.84 16659480.84 16659480.87 0.0089 0.0089

Jupiter 40900-02-13 16:05 G 16659522.06 16659522.17 16659522.29 0.0517 0.0225

Neptune 40900-04-01 11:46 G 16659568.92 16659568.99 16659569.11 0.0089 0.0078

Neptune 40900-06-28 15:50 G 16659657.04 16659657.16 16659657.30 0.0089 0.0066

Moon 40900-08-07 00:00 G 16659696.40 16659696.50 16659696.60 0.2648 0.0838

Earth 40900-08-07 00:29 G 16659696.42 16659696.52 16659696.62 0.2652 0.0721 *

Neptune 40900-09-24 19:26 G 16659745.17 16659745.31 16659745.47 0.0089 0.0055

Neptune 40900-12-21 23:02 G 16659833.30 16659833.46 16659833.64 0.0089 0.0044

Neptune 40901-03-20 02:53 G 16659921.44 16659921.62 16659921.81 0.0089 0.0033

Mars 40901-04-29 13:26 G 16659961.95 16659962.06 16659962.17 0.1941 0.0157

Neptune 40901-06-16 06:29 G 16660009.59 16660009.77 16660009.97 0.0089 0.0022

Neptune 40901-09-12 10:19 G 16660097.74 16660097.93 16660098.13 0.0089 0.0011

Neptune 40901-12-09 14:10 G 16660185.89 16660186.09 16660186.29 0.0089 0.0001

Neptune 40902-03-07 17:46 G 16660274.05 16660274.24 16660274.44 0.0089 0.0012

Neptune 40902-06-03 21:22 G 16660362.21 16660362.39 16660362.58 0.0089 0.0023

Neptune 40902-08-31 01:12 G 16660450.37 16660450.55 16660450.73 0.0089 0.0034

Venus 40902-10-12 00:14 G 16660492.48 16660492.51 16660492.55 0.3689 0.3450

Neptune 40902-11-27 04:19 G 16660538.53 16660538.68 16660538.87 0.0089 0.0046

Neptune 40903-02-23 08:10 G 16660626.70 16660626.84 16660627.00 0.0089 0.0057

Neptune 40903-05-22 11:46 G 16660714.88 16660714.99 16660715.13 0.0089 0.0068

Neptune 40903-08-18 15:22 G 16660803.07 16660803.14 16660803.25 0.0089 0.0079

Jupiter 40906-01-09 16:48 G 16661678.13 16661678.20 16661678.29 0.0507 0.0458

Jupiter 40906-04-10 06:58 G 16661768.68 16661768.79 16661768.90 0.0509 0.0407

Uranus 40906-10-03 23:46 G 16661945.41 16661945.49 16661945.60 0.0136 0.0118

Uranus 40906-12-31 07:12 G 16662033.67 16662033.80 16662033.96 0.0136 0.0091

Uranus 40907-03-29 15:07 G 16662121.96 16662122.13 16662122.30 0.0136 0.0063

Uranus 40907-06-25 22:34 G 16662210.25 16662210.44 16662210.63 0.0135 0.0036

Uranus 40907-09-22 06:00 G 16662298.56 16662298.75 16662298.95 0.0135 0.0008

Uranus 40907-12-19 13:26 G 16662386.87 16662387.06 16662387.25 0.0135 0.0019

Saturn 40908-03-14 00:29 G 16662472.49 16662472.52 16662472.58 0.0277 0.0268

Uranus 40908-03-16 20:38 G 16662475.19 16662475.36 16662475.55 0.0135 0.0046

Venus 40908-04-26 15:50 G 16662516.07 16662516.16 16662516.26 0.3689 0.1443

Saturn 40908-06-11 00:43 G 16662561.34 16662561.53 16662561.71 0.0278 0.0068

Uranus 40908-06-13 03:50 G 16662563.51 16662563.66 16662563.83 0.0135 0.0072

Saturn 40908-09-08 00:29 G 16662650.35 16662650.52 16662650.69 0.0280 0.0135

Uranus 40908-09-09 11:17 G 16662651.85 16662651.97 16662652.11 0.0135 0.0098

Uranus 40908-12-06 18:14 G 16662740.21 16662740.26 16662740.35 0.0135 0.0125

Mars 40910-09-19 21:36 G 16663392.34 16663392.40 16663392.46 0.1943 0.1598

Jupiter 40911-09-05 16:34 G 16663743.17 16663743.19 16663743.21 0.0519 0.0511

Jupiter 40911-12-03 20:38 G 16663832.24 16663832.36 16663832.49 0.0518 0.0077

Moon 40913-08-09 16:48 G 16664447.09 16664447.20 16664447.30 0.2652 0.0485

Earth 40913-08-09 17:31 G 16664447.12 16664447.23 16664447.33 0.2652 0.0530 *

Venus 40913-11-10 07:41 G 16664539.72 16664539.82 16664539.92 0.3688 0.0613

Earth 40917-02-05 18:00 G 16665723.20 16665723.25 16665723.30 0.2679 0.2541

Jupiter 40918-01-27 03:36 G 16666078.48 16666078.65 16666078.82 0.0508 0.0199

Venus 40919-05-26 23:31 G 16666563.41 16666563.48 16666563.55 0.3688 0.2684

Saturn 40921-04-25 23:02 G 16667263.37 16667263.46 16667263.55 0.0286 0.0210

Saturn 40921-07-23 10:05 G 16667351.79 16667351.92 16667352.04 0.0284 0.0067

Saturn 40921-10-19 20:53 G 16667440.25 16667440.37 16667440.50 0.0283 0.0076

Saturn 40922-01-16 07:55 G 16667528.75 16667528.83 16667528.91 0.0282 0.0215

Jupiter 40923-09-22 01:26 G 16668142.44 16668142.56 16668142.69 0.0518 0.0067

Moon 40926-08-12 10:05 G 16669197.83 16669197.92 16669198.00 0.2656 0.1687

Earth 40926-08-12 10:19 G 16669197.85 16669197.93 16669198.01 0.2651 0.1763 *

Mars 40926-09-29 21:07 G 16669246.22 16669246.38 16669246.54 0.1594 0.0439

Jupiter 40929-11-14 23:46 G 16670388.30 16670388.49 16670388.67 0.0507 0.0017

Moon 40930-02-09 02:53 G 16670474.45 16670474.62 16670474.78 0.2675 0.0642

Earth 40930-02-09 04:19 G 16670474.52 16670474.68 16670474.84 0.2680 0.0724 *

Mars 40931-06-08 05:17 G 16670958.64 16670958.72 16670958.79 0.1939 0.1457

Moon 40933-08-05 12:00 G 16671747.92 16671748.00 16671748.08 0.2646 0.1764

Earth 40933-08-05 12:14 G 16671747.93 16671748.01 16671748.09 0.2653 0.1710 *

Venus 40934-06-21 18:00 G 16672068.14 16672068.25 16672068.36 0.3683 0.2510

Jupiter 40935-07-11 06:29 G 16672452.65 16672452.77 16672452.88 0.0519 0.0207

Jupiter 40935-10-08 10:34 G 16672541.86 16672541.94 16672542.03 0.0517 0.0382

Mars 40936-02-19 23:02 G 16672676.32 16672676.46 16672676.60 0.1593 0.0894

Saturn 40937-10-28 20:10 G 16673293.19 16673293.34 16673293.51 0.0278 0.0147

Saturn 40938-01-25 20:10 G 16673382.16 16673382.34 16673382.53 0.0279 0.0055

Saturn 40938-04-24 19:55 G 16673471.27 16673471.33 16673471.41 0.0280 0.0259

Mars 40940-10-28 13:26 G 16674388.95 16674389.06 16674389.18 0.1941 0.0050

Jupiter 40941-09-02 20:10 G 16674698.17 16674698.34 16674698.51 0.0507 0.0224

Moon 40946-08-08 04:34 G 16676498.59 16676498.69 16676498.80 0.2650 0.0499

Earth 40946-08-08 05:02 G 16676498.61 16676498.71 16676498.82 0.2652 0.0483 *

Jupiter 40947-04-29 11:17 G 16676762.88 16676762.97 16676763.06 0.0519 0.0349

Jupiter 40947-07-27 15:22 G 16676852.03 16676852.14 16676852.25 0.0517 0.0238

Mars 40950-03-20 21:36 G 16677819.33 16677819.40 16677819.47 0.1942 0.1440

Uranus 40950-03-21 09:22 G 16677819.83 16677819.89 16677819.96 0.0142 0.0123

Uranus 40950-06-17 12:43 G 16677907.95 16677908.03 16677908.13 0.0143 0.0102

Saturn 40950-09-13 00:14 G 16677995.47 16677995.51 16677995.56 0.0286 0.0266

Uranus 40950-09-13 16:19 G 16677996.07 16677996.18 16677996.29 0.0143 0.0081

Saturn 40950-12-10 11:31 G 16678083.86 16678083.98 16678084.09 0.0285 0.0121

Uranus 40950-12-10 19:41 G 16678084.21 16678084.32 16678084.44 0.0143 0.0059

Saturn 40951-03-08 22:34 G 16678172.31 16678172.44 16678172.57 0.0284 0.0023

Uranus 40951-03-08 23:17 G 16678172.34 16678172.47 16678172.60 0.0143 0.0038 *

Uranus 40951-06-05 02:38 G 16678260.48 16678260.61 16678260.75 0.0143 0.0017

Saturn 40951-06-05 09:22 G 16678260.79 16678260.89 16678261.00 0.0283 0.0164

Uranus 40951-09-01 06:14 G 16678348.63 16678348.76 16678348.89 0.0143 0.0005

Uranus 40951-11-28 09:50 G 16678436.78 16678436.91 16678437.04 0.0143 0.0027

Uranus 40952-02-24 13:12 G 16678524.93 16678525.05 16678525.18 0.0143 0.0049

Uranus 40952-05-22 16:48 G 16678613.09 16678613.20 16678613.32 0.0143 0.0070

Uranus 40952-08-18 20:24 G 16678701.25 16678701.35 16678701.45 0.0143 0.0092

Uranus 40952-11-14 23:46 G 16678789.42 16678789.49 16678789.58 0.0143 0.0115

Uranus 40953-02-11 03:22 G 16678877.61 16678877.64 16678877.69 0.0144 0.0137

Jupiter 40953-06-21 15:50 G 16679008.08 16679008.16 16679008.26 0.0507 0.0444

Jupiter 40953-09-20 06:00 G 16679098.65 16679098.75 16679098.85 0.0509 0.0422

Jupiter 40959-02-15 16:19 G 16681073.14 16681073.18 16681073.22 0.0519 0.0489

Jupiter 40959-05-15 20:24 G 16681162.22 16681162.35 16681162.47 0.0517 0.0098

Venus 40959-05-18 21:50 G 16681165.34 16681165.41 16681165.47 0.3689 0.2735

Moon 40959-08-10 21:22 G 16681249.29 16681249.39 16681249.50 0.2653 0.0631

Earth 40959-08-10 22:05 G 16681249.32 16681249.42 16681249.52 0.2652 0.0772 *

Moon 40963-02-07 00:00 G 16682525.39 16682525.50 16682525.61 0.2673 0.1966

Earth 40963-02-07 00:58 G 16682525.43 16682525.54 16682525.65 0.2679 0.1949 *

Venus 40964-12-01 13:26 G 16683188.96 16683189.06 16683189.16 0.3689 0.0700

Jupiter 40965-07-09 02:53 G 16683408.45 16683408.62 16683408.79 0.0508 0.0216

Mars 40966-03-30 21:50 G 16683673.26 16683673.41 16683673.56 0.1594 0.0659

Saturn 40967-03-17 17:02 G 16684025.09 16684025.21 16684025.33 0.0277 0.0216

Saturn 40967-06-14 16:48 G 16684114.01 16684114.20 16684114.39 0.0278 0.0016

Saturn 40967-09-11 16:19 G 16684203.05 16684203.18 16684203.33 0.0279 0.0187

Venus 40970-06-17 05:02 G 16685212.62 16685212.71 16685212.81 0.3688 0.1347

Mars 40970-12-07 05:17 G 16685385.66 16685385.72 16685385.78 0.1939 0.1638

Jupiter 40971-03-04 00:43 G 16685472.41 16685472.53 16685472.66 0.0518 0.0055

Moon 40972-08-12 14:38 G 16686000.05 16686000.11 16686000.18 0.2657 0.2027

Earth 40972-08-12 15:07 G 16686000.06 16686000.13 16686000.20 0.2651 0.2009 *

Mars 40975-08-20 23:46 G 16687103.33 16687103.49 16687103.64 0.1592 0.0683

Venus 40975-12-31 20:53 G 16687236.34 16687236.37 16687236.41 0.3688 0.3440

Moon 40976-02-10 09:50 G 16687276.75 16687276.91 16687277.06 0.2677 0.1009

Earth 40976-02-10 11:17 G 16687276.83 16687276.97 16687277.12 0.2680 0.1325 *

Jupiter 40977-04-26 23:31 G 16687718.29 16687718.48 16687718.67 0.0508 0.0011

Moon 40979-08-06 16:48 G 16688550.11 16688550.20 16688550.29 0.2646 0.1461

Earth 40979-08-06 16:48 G 16688550.12 16688550.20 16688550.29 0.2653 0.1467 *

Neptune 40980-04-27 20:53 G 16688815.35 16688815.37 16688815.40 0.0089 0.0087

Saturn 40980-04-28 12:43 G 16688815.94 16688816.03 16688816.14 0.0286 0.0176

Mars 40980-04-28 13:26 G 16688815.94 16688816.06 16688816.17 0.1941 0.0182 *

Neptune 40980-07-24 21:50 G 16688903.37 16688903.41 16688903.48 0.0089 0.0080

Saturn 40980-07-26 00:00 G 16688904.37 16688904.50 16688904.62 0.0284 0.0033

Neptune 40980-10-20 23:31 G 16688991.40 16688991.48 16688991.55 0.0089 0.0072

Saturn 40980-10-22 10:48 G 16688992.83 16688992.95 16688993.07 0.0283 0.0111

Neptune 40981-01-17 00:29 G 16689079.44 16689079.52 16689079.62 0.0089 0.0065

Saturn 40981-01-18 21:50 G 16689081.36 16689081.41 16689081.47 0.0282 0.0251

Neptune 40981-04-15 01:41 G 16689167.49 16689167.57 16689167.68 0.0089 0.0058

Neptune 40981-07-12 03:07 G 16689255.53 16689255.63 16689255.75 0.0089 0.0050

Neptune 40981-10-08 04:19 G 16689343.58 16689343.68 16689343.80 0.0089 0.0043

Neptune 40982-01-04 05:46 G 16689431.62 16689431.74 16689431.86 0.0089 0.0035

Neptune 40982-04-02 06:58 G 16689519.67 16689519.79 16689519.92 0.0089 0.0028

Neptune 40982-06-29 08:24 G 16689607.72 16689607.85 16689607.98 0.0089 0.0020

Neptune 40982-09-25 09:36 G 16689695.77 16689695.90 16689696.03 0.0088 0.0013

Jupiter 40982-12-21 05:31 G 16689782.62 16689782.73 16689782.85 0.0519 0.0196

Neptune 40982-12-22 11:02 G 16689783.82 16689783.96 16689784.09 0.0088 0.0006

Jupiter 40983-03-20 09:36 G 16689871.82 16689871.90 16689871.99 0.0517 0.0393

Neptune 40983-03-20 12:14 G 16689871.88 16689872.01 16689872.14 0.0088 0.0002 *

Neptune 40983-06-16 13:26 G 16689959.93 16689960.06 16689960.19 0.0088 0.0010

Neptune 40983-09-12 14:38 G 16690047.99 16690048.11 16690048.25 0.0088 0.0018

Neptune 40983-12-09 16:05 G 16690136.04 16690136.17 16690136.30 0.0088 0.0025

Neptune 40984-03-06 17:17 G 16690224.10 16690224.22 16690224.35 0.0088 0.0032

Neptune 40984-06-02 18:29 G 16690312.16 16690312.27 16690312.39 0.0088 0.0040

Neptune 40984-08-29 19:41 G 16690400.22 16690400.32 16690400.44 0.0088 0.0047

Neptune 40984-11-25 21:07 G 16690488.28 16690488.38 16690488.49 0.0088 0.0055

Neptune 40985-02-21 22:19 G 16690576.34 16690576.43 16690576.53 0.0088 0.0062

Neptune 40985-05-20 23:31 G 16690664.41 16690664.48 16690664.57 0.0088 0.0070

Venus 40985-07-12 11:46 G 16690716.86 16690716.99 16690717.13 0.3682 0.1671

Neptune 40985-08-17 00:43 G 16690752.48 16690752.53 16690752.61 0.0088 0.0078

Neptune 40985-11-13 02:10 G 16690840.56 16690840.59 16690840.64 0.0088 0.0085

Pluto 40988-01-06 19:41 G 16691625.27 16691625.32 16691625.39 0.0069 0.0061

Pluto 40988-04-03 20:24 G 16691713.27 16691713.35 16691713.44 0.0069 0.0051

Pluto 40988-06-30 20:53 G 16691801.27 16691801.37 16691801.48 0.0069 0.0041

Pluto 40988-09-26 21:22 G 16691889.28 16691889.39 16691889.51 0.0069 0.0031

Pluto 40988-12-23 22:05 G 16691977.29 16691977.42 16691977.54 0.0069 0.0020

Jupiter 40989-02-12 19:41 G 16692028.14 16692028.32 16692028.49 0.0507 0.0205

Pluto 40989-03-21 22:34 G 16692065.31 16692065.44 16692065.57 0.0069 0.0010

Pluto 40989-06-17 23:02 G 16692153.33 16692153.46 16692153.60 0.0069 0.0002

Pluto 40989-09-13 23:31 G 16692241.36 16692241.48 16692241.62 0.0069 0.0011

Mars 40989-09-18 21:36 G 16692246.31 16692246.40 16692246.48 0.1943 0.1282

Pluto 40989-12-11 00:00 G 16692329.38 16692329.50 16692329.63 0.0069 0.0022

Pluto 40990-03-09 00:43 G 16692417.41 16692417.53 16692417.65 0.0069 0.0032

Pluto 40990-06-05 01:12 G 16692505.45 16692505.55 16692505.66 0.0070 0.0043

Uranus 40990-07-28 01:26 G 16692558.52 16692558.56 16692558.61 0.0136 0.0132

Pluto 40990-09-01 01:26 G 16692593.49 16692593.56 16692593.66 0.0070 0.0054

Uranus 40990-10-24 08:53 G 16692646.76 16692646.87 16692647.00 0.0136 0.0105

Pluto 40990-11-28 02:10 G 16692681.55 16692681.59 16692681.65 0.0070 0.0064

Uranus 40991-01-20 16:19 G 16692735.03 16692735.18 16692735.35 0.0136 0.0078

Uranus 40991-04-19 00:00 G 16692823.32 16692823.50 16692823.69 0.0135 0.0050

Uranus 40991-07-16 07:26 G 16692911.62 16692911.81 16692912.01 0.0135 0.0023

Uranus 40991-10-12 14:53 G 16692999.93 16693000.12 16693000.32 0.0135 0.0006

Uranus 40992-01-08 22:19 G 16693088.24 16693088.43 16693088.62 0.0135 0.0031

Uranus 40992-04-06 05:31 G 16693176.57 16693176.73 16693176.91 0.0135 0.0058

Uranus 40992-07-03 12:43 G 16693264.89 16693265.03 16693265.19 0.0135 0.0085

Moon 40992-08-08 09:07 G 16693300.78 16693300.88 16693300.99 0.2650 0.0373

Earth 40992-08-08 09:50 G 16693300.80 16693300.91 16693301.02 0.2652 0.0225 *

Uranus 40992-09-29 19:55 G 16693353.24 16693353.33 16693353.45 0.0135 0.0111

Jupiter 40994-10-09 10:34 G 16694092.84 16694092.94 16694093.03 0.0519 0.0336

Jupiter 40995-01-06 14:38 G 16694182.00 16694182.11 16694182.22 0.0518 0.0253

Saturn 40996-10-31 12:43 G 16694845.86 16694846.03 16694846.22 0.0278 0.0093

Saturn 40997-01-28 12:29 G 16694934.85 16694935.02 16694935.20 0.0279 0.0110

Jupiter 41000-12-02 15:50 G 16696338.06 16696338.16 16696338.27 0.0507 0.0415

42ND MILLENNIUM CE

This is a list of transits of Mercury in the 42nd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Jupiter 41001-03-03 06:00 G 16696428.66 16696428.75 16696428.83 0.0508 0.0449

Moon 41005-08-12 02:10 G 16698051.49 16698051.59 16698051.69 0.2654 0.0993

Earth 41005-08-12 02:53 G 16698051.52 16698051.62 16698051.72 0.2652 0.1019 *

Mars 41005-09-29 22:34 G 16698100.30 16698100.44 16698100.58 0.1594 0.0871

Jupiter 41006-07-29 15:22 G 16698403.10 16698403.14 16698403.19 0.0519 0.0477

Jupiter 41006-10-26 19:26 G 16698492.19 16698492.31 16698492.44 0.0517 0.0112

Moon 41009-02-08 06:58 G 16699327.66 16699327.79 16699327.93 0.2673 0.1552

Earth 41009-02-08 08:10 G 16699327.69 16699327.84 16699327.98 0.2679 0.1344 *

Saturn 41009-09-16 14:10 G 16699548.02 16699548.09 16699548.17 0.0286 0.0230

Saturn 41009-12-14 01:26 G 16699636.43 16699636.56 16699636.68 0.0285 0.0085

Saturn 41010-03-12 12:29 G 16699724.89 16699725.02 16699725.14 0.0284 0.0059

Mars 41010-06-08 05:17 G 16699812.68 16699812.72 16699812.76 0.1939 0.1805

Saturn 41010-06-08 23:17 G 16699813.38 16699813.47 16699813.57 0.0283 0.0200

Moon 41012-08-05 04:48 G 16700601.66 16700601.70 16700601.74 0.2646 0.2449

Earth 41012-08-05 04:48 G 16700601.66 16700601.70 16700601.73 0.2653 0.2452 *

Jupiter 41012-12-20 01:41 G 16700738.40 16700738.57 16700738.74 0.0508 0.0228

Mars 41015-02-20 00:29 G 16701530.36 16701530.52 16701530.68 0.1593 0.0460

Venus 41015-12-24 19:12 G 16701838.21 16701838.30 16701838.38 0.3689 0.2005

Moon 41018-08-14 19:26 G 16702802.25 16702802.31 16702802.37 0.2658 0.2178

Earth 41018-08-14 19:41 G 16702802.27 16702802.32 16702802.38 0.2651 0.2261 *

Jupiter 41018-08-15 00:29 G 16702802.39 16702802.52 16702802.64 0.0518 0.0031

Mars 41019-10-29 13:26 G 16703242.94 16703243.06 16703243.17 0.1941 0.0345

Venus 41021-07-09 10:48 G 16703861.85 16703861.95 16703862.05 0.3688 0.0032

Moon 41022-02-11 16:34 G 16704079.07 16704079.19 16704079.31 0.2678 0.1793

Earth 41022-02-11 18:29 G 16704079.15 16704079.27 16704079.38 0.2680 0.1914 *

Jupiter 41024-10-07 22:19 G 16705048.25 16705048.43 16705048.62 0.0508 0.0024

Moon 41025-08-07 21:22 G 16705352.29 16705352.39 16705352.48 0.2647 0.1260

Earth 41025-08-07 21:36 G 16705352.31 16705352.40 16705352.50 0.2653 0.1215 *

Saturn 41026-03-21 09:50 G 16705577.76 16705577.91 16705578.07 0.0277 0.0159

Saturn 41026-06-18 09:36 G 16705666.72 16705666.90 16705667.09 0.0278 0.0042

Saturn 41026-09-15 09:22 G 16705755.81 16705755.89 16705755.99 0.0279 0.0244

Venus	41027-01-23 02:38 G	16705885.52	16705885.61	16705885.69	0.3688	0.2100
Mars	41029-03-20 21:36 G	16706673.30	16706673.40	16706673.49	0.1942	0.1116
Jupiter	41030-06-03 05:02 G	16707112.59	16707112.71	16707112.82	0.0518	0.0181
Jupiter	41030-08-31 08:53 G	16707201.80	16707201.87	16707201.95	0.0517	0.0407
Uranus	41034-01-13 13:26 G	16708433.04	16708433.06	16708433.11	0.0142	0.0137
Uranus	41034-04-11 17:02 G	16708521.14	16708521.21	16708521.29	0.0143	0.0115
Uranus	41034-07-08 20:24 G	16708609.26	16708609.35	16708609.46	0.0143	0.0095
Uranus	41034-10-05 00:00 G	16708697.39	16708697.50	16708697.61	0.0143	0.0073
Uranus	41035-01-01 03:22 G	16708785.52	16708785.64	16708785.77	0.0143	0.0052
Uranus	41035-03-30 06:58 G	16708873.66	16708873.79	16708873.92	0.0143	0.0031
Uranus	41035-06-26 10:34 G	16708961.81	16708961.94	16708962.07	0.0143	0.0010
Uranus	41035-09-22 13:55 G	16709049.95	16709050.08	16709050.21	0.0143	0.0013
Uranus	41035-12-19 17:31 G	16709138.10	16709138.23	16709138.36	0.0143	0.0034
Uranus	41036-03-16 20:53 G	16709226.26	16709226.37	16709226.50	0.0143	0.0057
Uranus	41036-06-13 00:29 G	16709314.41	16709314.52	16709314.64	0.0143	0.0078
Jupiter	41036-07-26 18:58 G	16709358.12	16709358.29	16709358.47	0.0507	0.0185
Uranus	41036-09-09 04:05 G	16709402.58	16709402.67	16709402.77	0.0143	0.0100
Uranus	41036-12-06 07:26 G	16709490.76	16709490.81	16709490.89	0.0144	0.0123
Moon	41038-08-10 13:55 G	16710102.97	16710103.08	16710103.19	0.2650	0.0032
Earth	41038-08-10 14:38 G	16710103.00	16710103.11	16710103.22	0.2652	0.0056 *
Saturn	41039-02-03 15:36 G	16710280.14	16710280.15	16710280.17	0.0287	0.0285
Saturn	41039-05-03 02:53 G	16710368.50	16710368.62	16710368.73	0.0286	0.0139
Saturn	41039-07-30 13:55 G	16710456.95	16710457.08	16710457.21	0.0285	0.0009
Saturn	41039-10-27 00:43 G	16710545.43	16710545.53	16710545.65	0.0283	0.0148
Venus	41042-02-17 13:41 G	16711389.92	16711390.07	16711390.22	0.3682	0.0426
Jupiter	41042-03-22 09:36 G	16711422.80	16711422.90	16711423.00	0.0519	0.0325
Jupiter	41042-06-19 13:41 G	16711511.96	16711512.07	16711512.18	0.0517	0.0263
Mars	41045-03-30 23:17 G	16712527.34	16712527.47	16712527.59	0.1594	0.1081
Jupiter	41048-05-14 15:07 G	16713668.02	16713668.13	16713668.24	0.0507	0.0398
Jupiter	41048-08-13 05:02 G	16713758.64	16713758.71	16713758.78	0.0508	0.0465

Moon 41051-08-13 06:58 G 16714853.70 16714853.79 16714853.89 0.2655 0.1148

Earth 41051-08-13 07:26 G 16714853.72 16714853.81 16714853.91 0.2651 0.1267 *

Jupiter 41054-01-08 14:24 G 16715733.05 16715733.10 16715733.16 0.0520 0.0468

Jupiter 41054-04-07 18:29 G 16715822.15 16715822.27 16715822.40 0.0518 0.0123

Mars 41054-08-21 01:12 G 16715957.38 16715957.55 16715957.72 0.1593 0.0250

Moon 41055-02-09 13:55 G 16716129.92 16716130.08 16716130.24 0.2674 0.0836

Earth 41055-02-09 15:07 G 16716129.97 16716130.13 16716130.29 0.2679 0.0748 *

Saturn 41055-08-08 06:14 G 16716309.67 16716309.76 16716309.87 0.0277 0.0232

Saturn 41055-11-05 06:14 G 16716398.57 16716398.76 16716398.95 0.0278 0.0032

Saturn 41056-02-02 05:46 G 16716487.60 16716487.74 16716487.90 0.0279 0.0170

Moon 41058-08-06 09:36 G 16717403.83 16717403.90 16717403.96 0.2646 0.2144

Earth 41058-08-06 09:22 G 16717403.83 16717403.89 16717403.95 0.2653 0.2200 *

Mars 41059-04-29 13:26 G 16717669.95 16717670.06 16717670.17 0.1941 0.0514

Jupiter 41060-06-01 01:26 G 16718068.40 16718068.56 16718068.72 0.0508 0.0255

Mars 41064-01-11 02:53 G 16719387.62 16719387.62 16719387.63 0.1592 0.1590

Moon 41064-08-15 00:14 G 16719604.48 16719604.51 16719604.54 0.2657 0.2543

Earth 41064-08-15 00:29 G 16719604.49 16719604.52 16719604.55 0.2651 0.2505 *

Neptune 41064-10-01 05:17 G 16719651.70 16719651.72 16719651.75 0.0089 0.0088

Neptune 41064-12-28 08:53 G 16719739.78 16719739.87 16719739.98 0.0089 0.0077

Neptune 41065-03-26 12:29 G 16719827.90 16719828.02 16719828.17 0.0089 0.0066

Neptune 41065-06-22 16:05 G 16719916.03 16719916.17 16719916.34 0.0089 0.0055

Neptune 41065-09-18 19:55 G 16720004.17 16720004.33 16720004.51 0.0089 0.0044

Neptune 41065-12-15 23:46 G 16720092.31 16720092.49 16720092.68 0.0089 0.0032

Jupiter 41066-01-24 23:31 G 16720132.36 16720132.48 16720132.61 0.0518 0.0021

Neptune 41066-03-14 03:36 G 16720180.46 16720180.65 16720180.84 0.0089 0.0021

Neptune 41066-06-10 07:12 G 16720268.61 16720268.80 16720269.00 0.0089 0.0010

Neptune 41066-09-06 11:02 G 16720356.76 16720356.96 16720357.15 0.0089 0.0002

Neptune 41066-12-03 14:38 G 16720444.92 16720445.11 16720445.31 0.0089 0.0012

Venus 41067-01-15 00:58 G 16720487.50 16720487.54 16720487.58 0.3689 0.3294

Neptune 41067-03-01 18:14 G 16720533.07 16720533.26 16720533.45 0.0089 0.0024

Neptune 41067-05-28 21:50 G 16720621.24 16720621.41 16720621.60 0.0089 0.0035

Neptune 41067-08-25 01:26 G 16720709.40 16720709.56 16720709.74 0.0089 0.0046

Neptune 41067-11-21 05:02 G 16720797.57 16720797.71 16720797.87 0.0089 0.0057

Moon 41068-02-12 23:31 G 16720881.38 16720881.48 16720881.58 0.2679 0.2161

Earth 41068-02-13 01:26 G 16720881.51 16720881.56 16720881.62 0.2680 0.2513 *

Neptune 41068-02-17 08:38 G 16720885.75 16720885.86 16720886.00 0.0089 0.0068

Neptune 41068-05-15 12:14 G 16720973.94 16720974.01 16720974.11 0.0089 0.0079

Mars 41068-09-18 21:36 G 16721100.30 16721100.40 16721100.49 0.1942 0.0952

Saturn 41068-09-19 04:19 G 16721100.59 16721100.68 16721100.78 0.0286 0.0191

Saturn 41068-12-16 15:22 G 16721189.02 16721189.14 16721189.27 0.0285 0.0047

Saturn 41069-03-15 02:24 G 16721277.48 16721277.60 16721277.73 0.0284 0.0098

Saturn 41069-06-11 13:26 G 16721366.00 16721366.06 16721366.13 0.0283 0.0239

Moon 41071-08-09 01:55 G 16722154.48 16722154.58 16722154.68 0.2648 0.1047

Earth 41071-08-09 02:24 G 16722154.50 16722154.60 16722154.70 0.2653 0.0963 *

Jupiter 41072-03-19 20:53 G 16722378.18 16722378.37 16722378.56 0.0508 0.0029

Venus 41072-07-30 16:34 G 16722511.10 16722511.19 16722511.29 0.3689 0.1276

Pluto 41074-05-09 03:36 G 16723158.56 16723158.65 16723158.77 0.0075 0.0064

Pluto 41074-08-05 06:14 G 16723246.61 16723246.76 16723246.93 0.0075 0.0044

Uranus 41074-08-18 10:05 G 16723259.85 16723259.92 16723260.03 0.0136 0.0120

Pluto 41074-11-01 09:07 G 16723334.69 16723334.88 16723335.06 0.0075 0.0024

Uranus 41074-11-14 17:46 G 16723348.11 16723348.24 16723348.39 0.0136 0.0092

Pluto 41075-01-28 11:31 G 16723422.79 16723422.98 16723423.18 0.0075 0.0005

Uranus 41075-02-11 01:12 G 16723436.39 16723436.55 16723436.73 0.0136 0.0065

Pluto 41075-04-26 14:10 G 16723510.90 16723511.09 16723511.28 0.0075 0.0015

Uranus 41075-05-10 08:53 G 16723524.69 16723524.87 16723525.06 0.0135 0.0037

Pluto 41075-07-23 16:34 G 16723599.02 16723599.19 16723599.37 0.0075 0.0035

Uranus 41075-08-06 16:19 G 16723612.99 16723613.18 16723613.38 0.0135 0.0011

Pluto 41075-10-19 18:43 G 16723687.17 16723687.28 16723687.44 0.0074 0.0055

Uranus 41075-11-02 23:46 G 16723701.30 16723701.49 16723701.69 0.0135 0.0017

Pluto 41076-01-15 21:22 G 16723775.38 16723775.39 16723775.43 0.0074 0.0073

Uranus 41076-01-30 06:58 G 16723789.62 16723789.79 16723789.98 0.0135 0.0044

Uranus 41076-04-27 14:24 G 16723877.94 16723878.10 16723878.27 0.0135 0.0071

Uranus 41076-07-24 21:36 G 16723966.28 16723966.40 16723966.54 0.0135 0.0097

Uranus 41076-10-21 04:48 G 16724054.63 16724054.70 16724054.79 0.0135 0.0123

Jupiter 41077-11-13 04:34 G 16724442.57 16724442.69 16724442.81 0.0518 0.0161

Jupiter 41078-02-10 08:38 G 16724531.79 16724531.86 16724531.93 0.0516 0.0425

Venus 41078-02-13 08:10 G 16724534.74 16724534.84 16724534.95 0.3688 0.0790

Venus 41083-08-30 00:00 G 16726558.44 16726558.50 16726558.57 0.3688 0.2863

Jupiter 41084-01-06 17:31 G 16726688.05 16726688.23 16726688.41 0.0508 0.0178

Moon 41084-08-10 18:43 G 16726905.17 16726905.28 16726905.38 0.2651 0.0170

Earth 41084-08-10 19:12 G 16726905.20 16726905.30 16726905.41 0.2652 0.0292 *

Mars 41084-09-29 00:00 G 16726954.40 16726954.50 16726954.59 0.1594 0.1301

Saturn 41085-03-24 03:50 G 16727130.48 16727130.66 16727130.84 0.0277 0.0093

Saturn 41085-06-21 03:36 G 16727219.48 16727219.65 16727219.83 0.0278 0.0108

Jupiter 41089-09-01 08:53 G 16728752.77 16728752.87 16728752.97 0.0519 0.0311

Jupiter 41089-11-29 12:58 G 16728841.93 16728842.04 16728842.15 0.0517 0.0275

Mars 41094-02-19 01:41 G 16730384.40 16730384.57 16730384.74 0.1593 0.0051

Jupiter 41095-10-25 14:10 G 16730997.97 16730998.09 16730998.21 0.0507 0.0384

Jupiter 41096-01-24 04:05 G 16731088.62 16731088.67 16731088.73 0.0509 0.0481

Moon 41097-08-13 11:46 G 16731655.90 16731655.99 16731656.08 0.2657 0.1489

Earth 41097-08-13 12:14 G 16731655.92 16731656.01 16731656.10 0.2652 0.1512 *

Saturn 41098-02-06 06:00 G 16731832.69 16731832.75 16731832.82 0.0287 0.0243

Saturn 41098-05-05 17:02 G 16731921.09 16731921.21 16731921.34 0.0286 0.0097

Saturn 41098-08-02 04:05 G 16732009.55 16732009.67 16732009.80 0.0285 0.0048

Venus 41098-09-24 15:36 G 16732063.04 16732063.15 16732063.26 0.3682 0.2479

Mars 41098-10-28 13:12 G 16732096.95 16732097.05 16732097.16 0.1941 0.0668

Saturn 41098-10-29 15:07 G 16732098.04 16732098.13 16732098.23 0.0283 0.0190

Moon 41101-02-10 20:53 G 16732932.20 16732932.37 16732932.53 0.2676 0.0337

Earth 41101-02-10 22:19 G 16732932.26 16732932.43 16732932.59 0.2680 0.0144 *

Jupiter 41101-06-21 13:26 G 16733063.01 16733063.06 16733063.12 0.0519 0.0458

Jupiter 41101-09-18 17:31 G 16733152.11 16733152.23 16733152.36 0.0517 0.0130

Mars 41103-07-13 03:36 G 16733814.57 16733814.65 16733814.73 0.1592 0.1381

Moon 41104-08-07 14:10 G 16734206.02 16734206.09 16734206.16 0.2646 0.1988

Earth 41104-08-07 14:10 G 16734206.02 16734206.09 16734206.16 0.2653 0.1951 *

Jupiter 41107-11-13 00:14 G 16735398.35 16735398.51 16735398.67 0.0508 0.0266

Mars 41108-03-20 21:22 G 16735527.29 16735527.39 16735527.49 0.1943 0.0797

Jupiter 41113-07-07 22:19 G 16737462.31 16737462.43 16737462.56 0.0518 0.0021

Saturn 41114-08-12 01:26 G 16737862.40 16737862.56 16737862.72 0.0277 0.0158

Saturn 41114-11-09 01:12 G 16737951.36 16737951.55 16737951.73 0.0278 0.0042

Saturn 41115-02-06 00:43 G 16738040.44 16738040.53 16738040.62 0.0279 0.0243

Moon 41117-08-10 06:29 G 16738956.67 16738956.77 16738956.88 0.2648 0.0753

Earth 41117-08-10 07:12 G 16738956.69 16738956.80 16738956.90 0.2653 0.0722 *

Uranus 41118-02-03 20:38 G 16739134.32 16739134.36 16739134.41 0.0142 0.0132

Uranus 41118-05-03 00:00 G 16739222.43 16739222.50 16739222.59 0.0142 0.0112

Uranus 41118-07-30 03:36 G 16739310.55 16739310.65 16739310.75 0.0143 0.0090

Uranus 41118-10-26 07:12 G 16739398.68 16739398.80 16739398.91 0.0143 0.0069

Uranus 41119-01-22 10:34 G 16739486.82 16739486.94 16739487.07 0.0143 0.0048

Uranus 41119-04-20 13:55 G 16739574.96 16739575.08 16739575.22 0.0143 0.0027

Uranus 41119-07-17 17:31 G 16739663.10 16739663.23 16739663.36 0.0143 0.0005

Jupiter 41119-08-31 20:24 G 16739708.16 16739708.35 16739708.54 0.0508 0.0053

Uranus 41119-10-13 21:07 G 16739751.25 16739751.38 16739751.51 0.0143 0.0017

Uranus 41120-01-10 00:29 G 16739839.40 16739839.52 16739839.65 0.0143 0.0038

Uranus 41120-04-07 04:05 G 16739927.55 16739927.67 16739927.79 0.0143 0.0060

Uranus 41120-07-04 07:26 G 16740015.71 16740015.81 16740015.93 0.0143 0.0082

Uranus 41120-09-30 11:17 G 16740103.88 16740103.97 16740104.06 0.0143 0.0104

Uranus 41120-12-27 14:53 G 16740192.06 16740192.12 16740192.18 0.0144 0.0126

Venus 41123-08-22 22:19 G 16741160.36 16741160.43 16741160.51 0.3689 0.2572

Mars 41124-03-31 00:29 G 16741381.48 16741381.52 16741381.58 0.1594 0.1514

Jupiter 41125-04-26 03:22 G 16741772.52 16741772.64 16741772.76 0.0518 0.0153

Jupiter 41125-07-24 07:26 G 16741861.74 16741861.81 16741861.88 0.0516 0.0433

Saturn 41127-09-23 18:58 G 16742653.18 16742653.29 16742653.40 0.0286 0.0146

Saturn 41127-12-21 06:00 G 16742741.62 16742741.75 16742741.88 0.0285 0.0004

Saturn 41128-03-18 17:02 G 16742830.10 16742830.21 16742830.32 0.0284 0.0142

Venus 41129-03-07 14:10 G 16743183.98 16743184.09 16743184.19 0.3688 0.0553

Moon 41130-08-12 23:17 G 16743707.37 16743707.47 16743707.58 0.2652 0.0445

Earth 41130-08-13 00:00 G 16743707.40 16743707.50 16743707.61 0.2652 0.0525 *

Jupiter 41131-06-19 15:36 G 16744017.97 16744018.15 16744018.32 0.0508 0.0177

Mars 41133-08-21 02:38 G 16744811.44 16744811.61 16744811.78 0.1593 0.0182

Venus 41134-09-21 05:46 G 16745207.65 16745207.74 16745207.83 0.3688 0.1523

Jupiter 41137-02-12 08:10 G 16746082.74 16746082.84 16746082.95 0.0518 0.0295

Jupiter 41137-05-12 12:14 G 16746171.91 16746172.01 16746172.12 0.0517 0.0291

Mars 41138-04-29 13:12 G 16746523.95 16746524.05 16746524.15 0.1941 0.0825

Venus 41140-04-05 21:36 G 16747231.38 16747231.40 16747231.41 0.3687 0.3624

Mars 41143-01-11 04:19 G 16748241.57 16748241.68 16748241.80 0.1592 0.1163

Jupiter 41143-04-07 12:00 G 16748327.88 16748328.00 16748328.12 0.0507 0.0386

Jupiter 41143-07-07 02:10 G 16748418.53 16748418.59 16748418.65 0.0509 0.0482

Moon 41143-08-15 16:34 G 16748458.11 16748458.19 16748458.27 0.2657 0.1678

Earth 41143-08-15 17:02 G 16748458.13 16748458.21 16748458.28 0.2651 0.1765 *

Saturn 41143-12-29 23:31 G 16748594.37 16748594.48 16748594.61 0.0276 0.0214

Saturn 41144-03-27 23:17 G 16748683.28 16748683.47 16748683.66 0.0277 0.0016

Saturn 41144-06-24 23:02 G 16748772.32 16748772.46 16748772.60 0.0278 0.0186

Neptune 41145-01-24 20:10 G 16748986.31 16748986.34 16748986.36 0.0089 0.0086

Neptune 41145-04-22 21:07 G 16749074.33 16749074.38 16749074.45 0.0089 0.0079

Neptune 41145-07-19 22:19 G 16749162.37 16749162.43 16749162.52 0.0089 0.0072

Neptune 41145-10-15 23:46 G 16749250.41 16749250.49 16749250.59 0.0089 0.0064

Neptune 41146-01-12 00:58 G 16749338.45 16749338.54 16749338.65 0.0089 0.0057

Neptune 41146-04-10 02:10 G 16749426.49 16749426.59 16749426.71 0.0089 0.0050

Neptune 41146-07-07 03:36 G 16749514.54 16749514.65 16749514.77 0.0089 0.0042

Neptune 41146-10-03 04:48 G 16749602.59 16749602.70 16749602.83 0.0089 0.0035

Neptune 41146-12-30 06:14 G 16749690.63 16749690.76 16749690.88 0.0089 0.0027

Moon 41147-02-12 03:36 G 16749734.48 16749734.65 16749734.82 0.2677 0.0201

Earth 41147-02-12 05:17 G 16749734.56 16749734.72 16749734.89 0.2680 0.0462 *

Neptune 41147-03-28 07:26 G 16749778.68 16749778.81 16749778.94 0.0089 0.0020

Neptune 41147-06-24 08:38 G 16749866.73 16749866.86 16749867.00 0.0089 0.0012

Mars 41147-09-19 21:22 G 16749954.29 16749954.39 16749954.50 0.1942 0.0624

Neptune 41147-09-20 10:05 G 16749954.79 16749954.92 16749955.05 0.0089 0.0005

Neptune 41147-12-17 11:17 G 16750042.84 16750042.97 16750043.10 0.0089 0.0003

Neptune 41148-03-14 12:29 G 16750130.89 16750131.02 16750131.16 0.0088 0.0011

Neptune 41148-06-10 13:55 G 16750218.95 16750219.08 16750219.21 0.0088 0.0018

Neptune 41148-09-06 15:07 G 16750307.00 16750307.13 16750307.26 0.0088 0.0025

Jupiter 41148-12-01 12:29 G 16750392.97 16750393.02 16750393.09 0.0519 0.0448

Neptune 41148-12-03 16:19 G 16750395.06 16750395.18 16750395.31 0.0088 0.0033

Jupiter 41149-02-28 16:34 G 16750482.07 16750482.19 16750482.32 0.0517 0.0140

Neptune 41149-03-01 17:31 G 16750483.12 16750483.23 16750483.36 0.0088 0.0040

Neptune 41149-05-28 18:58 G 16750571.18 16750571.29 16750571.40 0.0088 0.0048

Neptune 41149-08-24 19:55 G 16750659.24 16750659.33 16750659.45 0.0088 0.0056

Venus 41149-10-16 09:22 G 16750711.75 16750711.89 16750712.03 0.3682 0.1714

Neptune 41149-11-20 21:22 G 16750747.31 16750747.39 16750747.49 0.0088 0.0063

Neptune 41150-02-16 22:34 G 16750835.37 16750835.44 16750835.53 0.0088 0.0071

Neptune 41150-05-16 00:00 G 16750923.45 16750923.50 16750923.57 0.0088 0.0078

Moon 41150-08-08 18:43 G 16751008.20 16751008.28 16751008.36 0.2647 0.1669

Earth 41150-08-08 18:58 G 16751008.20 16751008.29 16751008.37 0.2653 0.1707 *

Neptune 41150-08-12 01:12 G 16751011.53 16751011.55 16751011.59 0.0088 0.0085

Jupiter 41155-04-24 22:48 G 16752728.29 16752728.45 16752728.61 0.0508 0.0274

Saturn 41157-02-09 20:53 G 16753385.28 16753385.37 16753385.47 0.0287 0.0194

Saturn 41157-05-09 08:10 G 16753473.71 16753473.84 16753473.96 0.0286 0.0049

Saturn 41157-08-05 19:12 G 16753562.18 16753562.30 16753562.42 0.0284 0.0096

Saturn 41157-11-02 06:14 G 16753650.69 16753650.76 16753650.83 0.0283 0.0239

Uranus 41158-09-08 18:29 G 16753961.17 16753961.27 16753961.40 0.0136 0.0109

Uranus 41158-12-06 02:24 G 16754049.45 16754049.60 16754049.76 0.0136 0.0081

Uranus 41159-03-04 09:50 G 16754137.74 16754137.91 16754138.09 0.0136 0.0054

Uranus 41159-05-31 17:17 G 16754226.03 16754226.22 16754226.42 0.0136 0.0027

Uranus 41159-08-28 00:43 G 16754314.34 16754314.53 16754314.73 0.0136 0.0003

Uranus 41159-11-24 08:10 G 16754402.65 16754402.84 16754403.03 0.0135 0.0028

Uranus 41160-02-20 15:36 G 16754490.97 16754491.15 16754491.33 0.0135 0.0055

Uranus 41160-05-18 22:48 G 16754579.30 16754579.45 16754579.61 0.0135 0.0081

Uranus 41160-08-15 06:14 G 16754667.64 16754667.76 16754667.87 0.0135 0.0108

Uranus 41160-11-11 12:58 G 16754756.04 16754756.04 16754756.08 0.0135 0.0134

Jupiter 41160-12-17 21:07 G 16754792.26 16754792.38 16754792.51 0.0518 0.0019

Moon 41163-08-11 11:17 G 16755758.86 16755758.97 16755759.07 0.2648 0.0589

Earth 41163-08-11 11:46 G 16755758.89 16755758.99 16755759.10 0.2652 0.0467 *

Jupiter 41167-02-10 18:43 G 16757038.09 16757038.28 16757038.47 0.0508 0.0057

Jupiter 41172-10-06 01:55 G 16759102.46 16759102.58 16759102.70 0.0518 0.0154

Jupiter 41173-01-03 06:00 G 16759191.68 16759191.75 16759191.82 0.0517 0.0434

Mars 41173-02-19 03:07 G 16759238.47 16759238.63 16759238.80 0.1593 0.0393

Saturn 41173-05-17 21:50 G 16759326.39 16759326.41 16759326.45 0.0276 0.0272

Saturn 41173-08-14 21:36 G 16759415.22 16759415.40 16759415.59 0.0277 0.0074

Saturn 41173-11-11 21:07 G 16759504.22 16759504.38 16759504.56 0.0278 0.0128

Moon 41176-08-13 04:05 G 16760509.57 16760509.67 16760509.77 0.2654 0.0718

Earth 41176-08-13 04:48 G 16760509.59 16760509.70 16760509.80 0.2652 0.0777 *

Mars 41177-10-28 13:12 G 16760950.96 16760951.05 16760951.15 0.1941 0.1013

Jupiter 41178-11-29 14:38 G 16761347.94 16761348.11 16761348.29 0.0507 0.0159

Moon 41180-02-10 01:12 G 16761785.48 16761785.55 16761785.62 0.2673 0.2404

Earth 41180-02-10 02:10 G 16761785.50 16761785.59 16761785.68 0.2679 0.2210 *

Venus 41180-03-28 19:55 G 16761833.24 16761833.33 16761833.42 0.3689 0.1834

Mars 41182-07-12 05:02 G 16762668.58 16762668.71 16762668.85 0.1592 0.0946

Moon 41183-08-07 06:58 G 16763059.77 16763059.79 16763059.81 0.2647 0.2593

Jupiter 41184-07-25 06:58 G 16763412.69 16763412.79 16763412.89 0.0519 0.0293

Jupiter 41184-10-22 11:02 G 16763501.86 16763501.96 16763502.06 0.0517 0.0294

Venus 41185-10-12 11:31 G 16763856.88 16763856.98 16763857.08 0.3688 0.0204

Saturn 41186-06-29 23:02 G 16764117.39 16764117.46 16764117.53 0.0287 0.0239

Saturn 41186-09-26 10:19 G 16764205.81 16764205.93 16764206.05 0.0286 0.0093

Saturn 41186-12-23 21:22 G 16764294.26 16764294.39 16764294.52 0.0285 0.0052

Mars 41187-03-20 21:22 G 16764381.28 16764381.39 16764381.50 0.1942 0.0467

Saturn 41187-03-22 08:24 G 16764382.76 16764382.85 16764382.94 0.0284 0.0195

Moon 41189-08-15 21:22 G 16765260.32 16765260.39 16765260.46 0.2657 0.1981

Earth 41189-08-15 21:36 G 16765260.33 16765260.40 16765260.47 0.2651 0.2014 *

Jupiter 41190-09-17 09:36 G 16765657.78 16765657.90 16765658.02 0.0507 0.0391

Jupiter 41190-12-16 23:31 G 16765748.42 16765748.48 16765748.55 0.0509 0.0476

Venus 41191-04-28 03:22 G 16765880.56 16765880.64 16765880.72 0.3688 0.2287

Moon 41193-02-12 10:34 G 16766536.78 16766536.94 16766537.10 0.2677 0.0878

Earth 41193-02-12 12:29 G 16766536.87 16766537.02 16766537.17 0.2680 0.1053 *

Jupiter 41196-05-13 11:46 G 16767722.93 16767722.99 16767723.06 0.0519 0.0435

Moon 41196-08-08 23:17 G 16767810.38 16767810.47 16767810.56 0.2647 0.1549

Earth 41196-08-08 23:31 G 16767810.39 16767810.48 16767810.57 0.2653 0.1457 *

Mars 41196-08-10 05:31 G 16767811.72 16767811.73 16767811.74 0.1943 0.1925

Jupiter 41196-08-10 15:50 G 16767812.04 16767812.16 16767812.28 0.0517 0.0151

Uranus 41202-02-24 04:05 G 16769835.62 16769835.67 16769835.74 0.0142 0.0127

Uranus 41202-05-23 07:41 G 16769923.73 16769923.82 16769923.91 0.0142 0.0105

Uranus 41202-08-19 11:02 G 16770011.86 16770011.96 16770012.07 0.0143 0.0085

Jupiter 41202-10-04 20:10 G 16770058.18 16770058.34 16770058.50 0.0509 0.0266

Uranus 41202-11-15 14:24 G 16770099.99 16770100.10 16770100.22 0.0143 0.0064

Saturn 41203-01-01 20:53 G 16770147.20 16770147.37 16770147.54 0.0276 0.0122

Uranus 41203-02-11 18:00 G 16770188.12 16770188.25 16770188.38 0.0143 0.0042

Saturn 41203-03-31 20:24 G 16770236.17 16770236.35 16770236.54 0.0277 0.0078

Uranus 41203-05-10 21:22 G 16770276.26 16770276.39 16770276.52 0.0143 0.0021

Saturn 41203-06-28 20:10 G 16770325.33 16770325.34 16770325.35 0.0279 0.0278

Uranus 41203-08-07 00:58 G 16770364.41 16770364.54 16770364.67 0.0143 0.0001

Uranus 41203-11-03 04:19 G 16770452.55 16770452.68 16770452.82 0.0143 0.0023

Uranus 41204-01-30 07:55 G 16770540.71 16770540.83 16770540.96 0.0143 0.0044

Uranus 41204-04-27 11:31 G 16770628.86 16770628.98 16770629.10 0.0143 0.0066

Uranus 41204-07-24 15:07 G 16770717.02 16770717.13 16770717.23 0.0143 0.0088

Uranus 41204-10-20 18:29 G 16770805.19 16770805.27 16770805.36 0.0143 0.0110

Uranus 41205-01-16 22:05 G 16770893.37 16770893.42 16770893.47 0.0143 0.0132

Venus 41206-05-23 11:17 G 16771384.82 16771384.97 16771385.12 0.3682 0.0386

Jupiter 41208-05-29 20:10 G 16772122.21 16772122.34 16772122.46 0.0518 0.0011

Moon 41209-08-11 15:50 G 16772561.06 16772561.16 16772561.27 0.2649 0.0257

Earth 41209-08-11 16:34 G 16772561.08 16772561.19 16772561.29 0.2652 0.0228 *

Mars 41212-08-20 03:50 G 16773665.50 16773665.66 16773665.82 0.1593 0.0602

Jupiter 41214-07-23 16:48 G 16774368.01 16774368.20 16774368.38 0.0508 0.0058

Saturn 41215-11-17 01:26 G 16774849.54 16774849.56 16774849.59 0.0288 0.0283

Saturn 41216-02-13 12:43 G 16774937.91 16774938.03 16774938.14 0.0287 0.0135

Saturn 41216-05-11 23:46 G 16775026.36 16775026.49 16775026.62 0.0285 0.0010

Saturn 41216-08-08 10:48 G 16775114.84 16775114.95 16775115.06 0.0284 0.0154

Mars 41217-04-28 13:12 G 16775377.95 16775378.05 16775378.14 0.1940 0.1152

Jupiter 41220-03-18 00:29 G 16776432.41 16776432.52 16776432.65 0.0518 0.0154

Jupiter 41220-06-15 04:34 G 16776521.63 16776521.69 16776521.76 0.0516 0.0434

Mars 41222-01-10 05:46 G 16777095.59 16777095.74 16777095.89 0.1592 0.0737

Moon 41222-08-14 08:53 G 16777311.77 16777311.87 16777311.97 0.2655 0.0896

Earth 41222-08-14 09:22 G 16777311.79 16777311.89 16777311.99 0.2652 0.1024 *

Moon 41226-02-10 07:55 G 16778587.70 16778587.83 16778587.96 0.2674 0.1660

Earth 41226-02-10 09:07 G 16778587.75 16778587.88 16778588.01 0.2679 0.1616 *

Jupiter 41226-05-11 12:29 G 16778677.85 16778678.02 16778678.20 0.0507 0.0161

Mars 41226-09-18 21:22 G 16778808.28 16778808.39 16778808.50 0.1942 0.0303

Neptune 41229-06-29 01:41 G 16779822.57 16779822.57 16779822.60 0.0089 0.0088

Earth 41229-08-07 11:17 G 16779861.93 16779861.97 16779862.01 0.2653 0.2442

Moon 41229-08-07 11:31 G 16779861.94 16779861.98 16779862.02 0.2647 0.2442 *

Neptune 41229-09-25 05:31 G 16779910.64 16779910.73 16779910.83 0.0089 0.0077

Neptune 41229-12-22 09:07 G 16779998.76 16779998.88 16779999.02 0.0089 0.0066

Neptune 41230-03-20 12:43 G 16780086.89 16780087.03 16780087.20 0.0089 0.0055

Neptune 41230-06-16 16:34 G 16780175.03 16780175.19 16780175.37 0.0089 0.0044

Neptune 41230-09-12 20:10 G 16780263.17 16780263.34 16780263.54 0.0089 0.0033

Neptune 41230-12-10 00:14 G 16780351.32 16780351.51 16780351.70 0.0089 0.0021

Neptune 41231-03-08 03:50 G 16780439.47 16780439.66 16780439.86 0.0089 0.0010

Venus 41231-04-20 01:41 G 16780482.52 16780482.57 16780482.62 0.3689 0.3125

Neptune 41231-06-04 07:41 G 16780527.62 16780527.82 16780528.01 0.0089 0.0002

Neptune 41231-08-31 11:17 G 16780615.78 16780615.97 16780616.17 0.0089 0.0012

Neptune 41231-11-27 14:53 G 16780703.94 16780704.12 16780704.31 0.0089 0.0024

Jupiter 41232-01-05 05:17 G 16780742.62 16780742.72 16780742.82 0.0519 0.0300

Neptune 41232-02-23 18:29 G 16780792.10 16780792.27 16780792.46 0.0089 0.0035

Jupiter 41232-04-03 09:22 G 16780831.78 16780831.89 16780831.99 0.0517 0.0288

Saturn 41232-05-20 19:55 G 16780879.19 16780879.33 16780879.48 0.0276 0.0174

Neptune 41232-05-21 22:05 G 16780880.26 16780880.42 16780880.60 0.0089 0.0046

Saturn 41232-08-17 19:41 G 16780968.13 16780968.32 16780968.51 0.0278 0.0025

Neptune 41232-08-18 01:41 G 16780968.43 16780968.57 16780968.73 0.0089 0.0057 *

Neptune 41232-11-14 05:17 G 16781056.61 16781056.72 16781056.86 0.0089 0.0068

Saturn 41232-11-14 19:12 G 16781057.20 16781057.30 16781057.41 0.0279 0.0227

Neptune 41233-02-10 09:07 G 16781144.80 16781144.88 16781144.97 0.0089 0.0079

Pluto 41235-08-12 04:48 G 16782057.69 16782057.70 16782057.73 0.0068 0.0068

Moon 41235-08-17 02:10 G 16782062.54 16782062.59 16782062.64 0.2657 0.2247

Earth 41235-08-17 02:24 G 16782062.55 16782062.60 16782062.65 0.2651 0.2260 *

Pluto 41235-11-08 05:17 G 16782145.66 16782145.72 16782145.80 0.0069 0.0058

Pluto 41236-02-04 05:46 G 16782233.66 16782233.74 16782233.85 0.0069 0.0048

Mars 41236-02-09 05:31 G 16782238.68 16782238.73 16782238.78 0.1943 0.1752

Pluto 41236-05-02 06:29 G 16782321.66 16782321.77 16782321.88 0.0069 0.0037

Pluto 41236-07-29 06:58 G 16782409.68 16782409.79 16782409.92 0.0069 0.0027

Pluto 41236-10-25 07:41 G 16782497.69 16782497.82 16782497.95 0.0069 0.0016

Venus 41236-11-02 17:17 G 16782506.12 16782506.22 16782506.32 0.3689 0.1102

Pluto 41237-01-21 08:10 G 16782585.71 16782585.84 16782585.97 0.0069 0.0006

Pluto 41237-04-19 08:38 G 16782673.73 16782673.86 16782674.00 0.0069 0.0005

Pluto 41237-07-16 09:07 G 16782761.76 16782761.88 16782762.02 0.0069 0.0015

Pluto 41237-10-12 09:50 G 16782849.79 16782849.91 16782850.03 0.0069 0.0025

Pluto 41238-01-08 10:05 G 16782937.82 16782937.92 16782938.04 0.0070 0.0037

Jupiter 41238-02-27 08:24 G 16782987.73 16782987.85 16782987.97 0.0507 0.0378

Pluto 41238-04-06 10:48 G 16783025.86 16783025.95 16783026.05 0.0070 0.0047

Jupiter 41238-05-28 22:19 G 16783078.38 16783078.43 16783078.48 0.0509 0.0487

Pluto 41238-07-03 11:17 G 16783113.91 16783113.97 16783114.05 0.0070 0.0058

Pluto 41238-09-29 12:00 G 16783201.98 16783202.00 16783202.03 0.0070 0.0068

Moon 41239-02-13 17:46 G 16783339.09 16783339.24 16783339.38 0.2677 0.1342

Earth 41239-02-13 19:26 G 16783339.18 16783339.31 16783339.44 0.2680 0.1652 *

Venus 41242-05-19 08:53 G 16784529.77 16784529.87 16784529.97 0.3688 0.0957

Uranus 41242-07-02 18:58 G 16784574.23 16784574.29 16784574.36 0.0136 0.0128

Moon 41242-08-10 03:50 G 16784612.57 16784612.66 16784612.76 0.2647 0.1206

Earth 41242-08-10 04:19 G 16784612.58 16784612.68 16784612.77 0.2653 0.1209 *

Uranus 41242-09-29 02:24 G 16784662.48 16784662.60 16784662.74 0.0136 0.0100

Uranus 41242-12-26 10:05 G 16784750.76 16784750.92 16784751.09 0.0136 0.0072

Uranus 41243-03-24 17:31 G 16784839.06 16784839.23 16784839.42 0.0136 0.0045

Uranus 41243-06-21 01:12 G 16784927.36 16784927.55 16784927.74 0.0136 0.0017

Uranus 41243-09-17 08:38 G 16785015.67 16785015.86 16785016.05 0.0136 0.0010

Jupiter 41243-10-24 10:05 G 16785052.86 16785052.92 16785052.99 0.0519 0.0440

Uranus 41243-12-14 16:05 G 16785103.98 16785104.17 16785104.35 0.0136 0.0037

Jupiter 41244-01-21 14:10 G 16785141.97 16785142.09 16785142.21 0.0517 0.0149

Uranus 41244-03-11 23:17 G 16785192.30 16785192.47 16785192.65 0.0135 0.0064

Uranus 41244-06-08 06:29 G 16785280.64 16785280.77 16785280.92 0.0135 0.0091

Uranus 41244-09-04 13:55 G 16785368.99 16785369.08 16785369.18 0.0135 0.0117

Saturn 41245-07-02 15:07 G 16785670.03 16785670.13 16785670.23 0.0287 0.0176

Saturn 41245-09-29 02:10 G 16785758.47 16785758.59 16785758.72 0.0285 0.0031

Saturn 41245-12-26 13:12 G 16785846.94 16785847.05 16785847.17 0.0284 0.0114

Saturn 41246-03-25 00:14 G 16785935.46 16785935.51 16785935.57 0.0283 0.0257

Venus 41247-12-03 00:43 G 16786553.48 16786553.53 16786553.59 0.3688 0.3042

Jupiter 41250-03-16 17:17 G 16787388.05 16787388.22 16787388.38 0.0508 0.0254

Mars 41252-02-19 04:34 G 16788092.55 16788092.69 16788092.84 0.1593 0.0824

Moon 41255-08-12 20:38 G 16789363.25 16789363.36 16789363.46 0.2651 0.0128

Earth 41255-08-12 21:07 G 16789363.28 16789363.38 16789363.49 0.2652 0.0078 *

Jupiter 41255-11-09 18:58 G 16789452.17 16789452.29 16789452.42 0.0518 0.0011

Mars 41256-10-27 13:12 G 16789804.97 16789805.05 16789805.13 0.1941 0.1323

Mars 41261-07-11 06:29 G 16791522.61 16791522.77 16791522.93 0.1592 0.0522

Saturn 41261-10-07 19:41 G 16791611.21 16791611.32 16791611.44 0.0276 0.0218

Jupiter 41262-01-02 13:26 G 16791697.87 16791698.06 16791698.25 0.0508 0.0041

Saturn 41262-01-04 19:26 G 16791700.12 16791700.31 16791700.50 0.0277 0.0020

Saturn 41262-04-03 18:58 G 16791789.15 16791789.29 16791789.44 0.0278 0.0181

Venus 41262-12-28 12:58 G 16792057.93 16792058.04 16792058.15 0.3682 0.2425

Mars 41266-03-19 21:22 G 16793235.27 16793235.39 16793235.50 0.1942 0.0150

Jupiter 41267-08-28 23:17 G 16793762.35 16793762.47 16793762.59 0.0518 0.0151

Jupiter 41267-11-26 03:07 G 16793851.57 16793851.63 16793851.70 0.0516 0.0435

Moon 41268-08-14 13:26 G 16794113.97 16794114.06 16794114.16 0.2655 0.1239

Earth 41268-08-14 14:10 G 16794114.00 16794114.09 16794114.18 0.2652 0.1267 *

Moon 41272-02-11 14:38 G 16795389.97 16795390.11 16795390.26 0.2675 0.1316

Earth 41272-02-11 16:19 G 16795390.03 16795390.18 16795390.33 0.2679 0.1014 *

Jupiter 41273-10-21 09:50 G 16796007.74 16796007.91 16796008.09 0.0508 0.0168

Saturn 41274-11-19 18:00 G 16796402.17 16796402.25 16796402.33 0.0287 0.0215

Saturn 41275-02-16 05:02 G 16796490.59 16796490.71 16796490.84 0.0286 0.0068

Saturn 41275-05-15 16:05 G 16796579.05 16796579.17 16796579.30 0.0285 0.0078

Moon 41275-08-08 16:05 G 16796664.11 16796664.17 16796664.23 0.2647 0.2177

Earth 41275-08-08 16:05 G 16796664.11 16796664.17 16796664.23 0.2653 0.2198 *

Mars 41275-08-10 05:17 G 16796665.66 16796665.72 16796665.78 0.1943 0.1614

Saturn 41275-08-12 03:07 G 16796667.56 16796667.63 16796667.72 0.0284 0.0221

Jupiter 41279-06-17 03:36 G 16798072.55 16798072.65 16798072.75 0.0519 0.0302

Jupiter 41279-09-14 07:41 G 16798161.72 16798161.82 16798161.92 0.0517 0.0285

Moon 41281-08-17 06:58 G 16798864.76 16798864.79 16798864.83 0.2658 0.2477

Earth 41281-08-17 07:12 G 16798864.77 16798864.80 16798864.83 0.2651 0.2511 *

Moon 41285-02-14 00:43 G 16800141.43 16800141.53 16800141.63 0.2678 0.2106

Earth 41285-02-14 02:38 G 16800141.52 16800141.61 16800141.70 0.2680 0.2239 *

Jupiter 41285-08-09 05:46 G 16800317.62 16800317.74 16800317.86 0.0507 0.0386

Jupiter 41285-11-07 19:41 G 16800408.27 16800408.32 16800408.38 0.0509 0.0479

Uranus 41285-12-18 08:10 G 16800448.84 16800448.84 16800448.86 0.0142 0.0141

Uranus 41286-03-16 11:31 G 16800536.92 16800536.98 16800537.06 0.0142 0.0121

Uranus 41286-06-12 15:07 G 16800625.04 16800625.13 16800625.23 0.0142 0.0099

Uranus 41286-09-08 18:29 G 16800713.17 16800713.27 16800713.38 0.0142 0.0079

Uranus 41286-12-05 21:50 G 16800801.30 16800801.41 16800801.54 0.0143 0.0058

Uranus 41287-03-04 01:26 G 16800889.43 16800889.56 16800889.69 0.0143 0.0036

Uranus 41287-05-31 04:48 G 16800977.58 16800977.70 16800977.84 0.0143 0.0016

Uranus 41287-08-27 08:24 G 16801065.72 16801065.85 16801065.98 0.0143 0.0007

Uranus 41287-11-23 11:46 G 16801153.87 16801153.99 16801154.13 0.0143 0.0029

Venus 41287-11-24 23:17 G 16801155.39 16801155.47 16801155.54 0.3689 0.2403

Uranus 41288-02-19 15:22 G 16801242.02 16801242.14 16801242.27 0.0143 0.0050

Uranus 41288-05-17 18:43 G 16801330.18 16801330.28 16801330.40 0.0143 0.0073

Moon 41288-08-10 08:38 G 16801414.76 16801414.86 16801414.96 0.2647 0.1056

Earth 41288-08-10 08:53 G 16801414.77 16801414.87 16801414.97 0.2653 0.0964 *

Uranus 41288-08-13 22:34 G 16801418.34 16801418.44 16801418.54 0.0143 0.0094

Uranus 41288-11-10 02:10 G 16801506.51 16801506.59 16801506.66 0.0143 0.0116

Uranus 41289-02-06 05:31 G 16801594.70 16801594.73 16801594.77 0.0143 0.0138

Saturn 41291-02-24 19:41 G 16802343.27 16802343.32 16802343.37 0.0276 0.0264

Jupiter 41291-04-05 08:10 G 16802382.78 16802382.84 16802382.90 0.0519 0.0452

Saturn 41291-05-24 19:12 G 16802432.12 16802432.30 16802432.49 0.0277 0.0066

Jupiter 41291-07-03 12:14 G 16802471.89 16802472.01 16802472.13 0.0518 0.0137

Mars 41291-08-20 05:17 G 16802519.59 16802519.72 16802519.85 0.1593 0.1033

Saturn 41291-08-21 18:58 G 16802521.12 16802521.29 16802521.46 0.0278 0.0135

Venus 41293-06-09 14:38 G 16803179.01 16803179.11 16803179.22 0.3689 0.0402

Mars 41296-04-27 13:12 G 16804231.98 16804232.05 16804232.12 0.1941 0.1495

Jupiter 41297-08-26 15:22 G 16804717.99 16804718.14 16804718.31 0.0508 0.0260

Venus 41298-12-24 06:29 G 16805202.68 16805202.77 16805202.86 0.3688 0.1702

Mars 41301-01-10 07:12 G 16805949.63 16805949.80 16805949.97 0.1592 0.0304

Moon 41301-08-14 01:12 G 16806165.44 16806165.55 16806165.66 0.2653 0.0241

Earth 41301-08-14 01:55 G 16806165.47 16806165.58 16806165.69 0.2652 0.0279 *

Jupiter 41303-04-22 17:17 G 16806782.09 16806782.22 16806782.34 0.0518 0.0019

Saturn 41304-04-08 20:53 G 16807134.31 16807134.37 16807134.43 0.0287 0.0250

Saturn 41304-07-06 07:55 G 16807222.72 16807222.83 16807222.96 0.0286 0.0104

Saturn 41304-10-02 19:12 G 16807311.17 16807311.30 16807311.43 0.0285 0.0042

Saturn 41304-12-30 06:00 G 16807399.66 16807399.75 16807399.85 0.0284 0.0186

Mars 41305-09-18 21:22 G 16807662.27 16807662.39 16807662.50 0.1942 0.0064

Jupiter 41309-06-15 10:05 G 16809027.73 16809027.92 16809028.11 0.0508 0.0025

Neptune 41309-10-22 18:58 G 16809157.27 16809157.29 16809157.33 0.0089 0.0086

Neptune 41310-01-18 20:10 G 16809245.29 16809245.34 16809245.41 0.0089 0.0079

Neptune 41310-04-16 21:36 G 16809333.33 16809333.40 16809333.48 0.0089 0.0071

Neptune 41310-07-13 22:48 G 16809421.37 16809421.45 16809421.55 0.0089 0.0064

Neptune 41310-10-10 00:14 G 16809509.41 16809509.51 16809509.61 0.0089 0.0056

Neptune 41311-01-06 01:26 G 16809597.46 16809597.56 16809597.67 0.0089 0.0049

Neptune 41311-04-04 02:38 G 16809685.50 16809685.61 16809685.73 0.0089 0.0041

Neptune 41311-07-01 04:05 G 16809773.55 16809773.67 16809773.79 0.0089 0.0034

Neptune 41311-09-27 05:17 G 16809861.60 16809861.72 16809861.85 0.0089 0.0026

Neptune 41311-12-24 06:29 G 16809949.65 16809949.77 16809949.90 0.0089 0.0019

Neptune 41312-03-21 07:55 G 16810037.70 16810037.83 16810037.96 0.0089 0.0012

Neptune 41312-06-17 09:07 G 16810125.75 16810125.88 16810126.01 0.0089 0.0004

Neptune 41312-09-13 10:19 G 16810213.80 16810213.93 16810214.06 0.0089 0.0004

Neptune 41312-12-10 11:31 G 16810301.86 16810301.98 16810302.12 0.0089 0.0012

Neptune 41313-03-08 12:58 G 16810389.91 16810390.04 16810390.17 0.0089 0.0018

Neptune 41313-06-04 14:10 G 16810477.97 16810478.09 16810478.22 0.0088 0.0026

Neptune 41313-08-31 15:22 G 16810566.02 16810566.14 16810566.27 0.0088 0.0034

Neptune 41313-11-27 16:48 G 16810654.08 16810654.20 16810654.32 0.0088 0.0041

Venus 41314-01-19 06:43 G 16810706.64 16810706.78 16810706.91 0.3682 0.1819

Neptune 41314-02-23 18:00 G 16810742.14 16810742.25 16810742.36 0.0088 0.0048

Neptune 41314-05-22 19:12 G 16810830.21 16810830.30 16810830.41 0.0088 0.0056

Moon 41314-08-16 18:14 G 16810916.17 16810916.26 16810916.35 0.2655 0.1400

Earth 41314-08-16 18:58 G 16810916.20 16810916.29 16810916.37 0.2651 0.1521 *

Neptune 41314-08-18 20:24 G 16810918.27 16810918.35 16810918.45 0.0088 0.0064

Neptune 41314-11-14 21:50 G 16811006.34 16811006.41 16811006.49 0.0088 0.0071

Jupiter 41315-02-08 21:50 G 16811092.29 16811092.41 16811092.53 0.0518 0.0149

Mars 41315-02-09 05:17 G 16811092.65 16811092.72 16811092.80 0.1943 0.1439

Neptune 41315-02-10 23:02 G 16811094.41 16811094.46 16811094.53 0.0088 0.0078

Jupiter 41315-05-09 01:55 G 16811181.52 16811181.58 16811181.65 0.0516 0.0438

Neptune 41315-05-10 00:29 G 16811182.49 16811182.52 16811182.55 0.0088 0.0086

Moon 41318-02-12 21:36 G 16812192.24 16812192.40 16812192.56 0.2675 0.0518

Earth 41318-02-12 23:17 G 16812192.31 16812192.47 16812192.63 0.2679 0.0427 *

Saturn 41320-10-11 19:41 G 16813164.14 16813164.32 16813164.49 0.0276 0.0107

Saturn 41321-01-08 19:12 G 16813253.12 16813253.30 16813253.48 0.0278 0.0094

Jupiter 41321-04-03 06:14 G 16813337.59 16813337.76 16813337.94 0.0507 0.0190

Moon 41321-08-09 20:38 G 16813466.29 16813466.36 16813466.43 0.2646 0.1947

Earth 41321-08-09 20:38 G 16813466.29 16813466.36 16813466.44 0.2653 0.1951 *

Pluto 41322-03-10 11:31 G 16813678.88 16813678.98 16813679.13 0.0075 0.0058

Pluto 41322-06-06 14:24 G 16813766.94 16813767.10 16813767.28 0.0075 0.0037

Pluto 41322-09-02 17:02 G 16813855.03 16813855.21 16813855.41 0.0075 0.0017

Pluto 41322-11-29 19:41 G 16813943.13 16813943.32 16813943.52 0.0075 0.0003

Pluto 41323-02-25 22:05 G 16814031.24 16814031.42 16814031.62 0.0075 0.0023

Pluto 41323-05-25 00:43 G 16814119.37 16814119.53 16814119.70 0.0075 0.0042

Pluto 41323-08-21 02:53 G 16814207.53 16814207.62 16814207.75 0.0074 0.0062

Uranus 41326-07-24 02:24 G 16815275.52 16815275.60 16815275.71 0.0136 0.0120

Uranus 41326-10-20 10:19 G 16815363.79 16815363.93 16815364.08 0.0136 0.0091

Jupiter 41326-11-28 01:55 G 16815402.49 16815402.58 16815402.69 0.0519 0.0306

Uranus 41327-01-16 17:46 G 16815452.08 16815452.24 16815452.42 0.0136 0.0064

Jupiter 41327-02-25 06:00 G 16815491.65 16815491.75 16815491.86 0.0517 0.0282

Uranus 41327-04-15 01:26 G 16815540.37 16815540.56 16815540.75 0.0136 0.0036

Uranus 41327-07-12 08:53 G 16815628.68 16815628.87 16815629.07 0.0136 0.0009

Uranus 41327-10-08 16:19 G 16815716.99 16815717.18 16815717.37 0.0136 0.0019

Uranus 41328-01-04 23:46 G 16815805.31 16815805.49 16815805.67 0.0136 0.0045

Uranus 41328-04-02 06:58 G 16815893.64 16815893.79 16815893.96 0.0135 0.0073

Uranus 41328-06-29 14:10 G 16815981.97 16815982.09 16815982.23 0.0135 0.0099

Uranus 41328-09-25 21:36 G 16816070.34 16816070.40 16816070.48 0.0135 0.0126

Moon 41331-02-16 07:41 G 16816943.77 16816943.82 16816943.88 0.2681 0.2493

Mars 41331-02-19 05:46 G 16816946.64 16816946.74 16816946.85 0.1593 0.1242

Jupiter 41333-01-20 02:38 G 16817647.50 16817647.61 16817647.73 0.0507 0.0399

Jupiter 41333-04-20 16:48 G 16817738.13 16817738.20 16817738.27 0.0509 0.0468

Saturn 41333-08-27 00:00 G 16817866.49 16817866.50 16817866.51 0.0288 0.0286

Saturn 41333-11-23 11:02 G 16817954.85 16817954.96 16817955.08 0.0287 0.0139

Saturn 41334-02-19 22:19 G 16818043.30 16818043.43 16818043.56 0.0285 0.0011

Saturn 41334-05-19 09:07 G 16818131.78 16818131.88 16818132.00 0.0284 0.0152

Moon 41334-08-12 13:12 G 16818216.95 16818217.05 16818217.15 0.2648 0.0755

Earth 41334-08-12 13:41 G 16818216.97 16818217.07 16818217.17 0.2653 0.0714 *

Mars 41335-10-28 12:58 G 16818658.98 16818659.04 16818659.10 0.1940 0.1646

Jupiter 41338-09-16 06:29 G 16819712.71 16819712.77 16819712.83 0.0519 0.0457

Jupiter 41338-12-14 10:34 G 16819801.82 16819801.94 16819802.06 0.0517 0.0131

Venus 41338-12-17 05:02 G 16819804.71 16819804.71 16819804.71 0.3690 0.3688

Mars 41340-07-11 07:55 G 16820376.66 16820376.83 16820377.00 0.1592 0.0099

Venus 41344-07-01 20:38 G 16821828.27 16821828.36 16821828.45 0.3689 0.1683

Jupiter 41345-02-06 12:43 G 16822047.86 16822048.03 16822048.19 0.0508 0.0248

Mars 41345-03-19 21:07 G 16822089.27 16822089.38 16822089.50 0.1942 0.0192

Moon 41347-08-15 06:00 G 16822967.64 16822967.75 16822967.85 0.2653 0.0387

Earth 41347-08-15 06:43 G 16822967.67 16822967.78 16822967.88 0.2652 0.0537 *

Mars 41349-12-01 09:36 G 16823806.83 16823806.90 16823806.97 0.1592 0.1436

Venus 41350-01-15 12:14 G 16823851.91 16823852.01 16823852.11 0.3689 0.0381

Saturn 41350-02-28 19:41 G 16823896.16 16823896.32 16823896.48 0.0277 0.0150

Saturn 41350-05-28 19:26 G 16823985.12 16823985.31 16823985.50 0.0278 0.0050

Saturn 41350-08-25 18:58 G 16824074.22 16824074.29 16824074.38 0.0279 0.0252

Jupiter 41350-10-02 14:53 G 16824112.00 16824112.12 16824112.25 0.0518 0.0023

Mars 41354-08-10 05:17 G 16825519.64 16825519.72 16825519.81 0.1943 0.1271

Venus 41355-08-01 03:50 G 16825875.59 16825875.66 16825875.74 0.3688 0.2453

Jupiter 41356-11-25 08:10 G 16826357.65 16826357.84 16826358.03 0.0508 0.0027

Moon 41360-08-16 23:17 G 16827718.39 16827718.47 16827718.54 0.2657 0.1774

Earth 41360-08-16 23:31 G 16827718.40 16827718.48 16827718.56 0.2651 0.1765 *

Jupiter 41362-07-21 19:55 G 16828422.21 16828422.33 16828422.45 0.0519 0.0162

Jupiter 41362-10-19 00:00 G 16828511.43 16828511.50 16828511.57 0.0517 0.0426

Saturn 41363-04-12 14:24 G 16828687.00 16828687.10 16828687.20 0.0286 0.0170

Saturn 41363-07-10 01:26 G 16828775.43 16828775.56 16828775.69 0.0285 0.0024

Saturn 41363-10-06 12:29 G 16828863.90 16828864.02 16828864.14 0.0284 0.0120

Saturn 41364-01-02 23:31 G 16828952.43 16828952.48 16828952.52 0.0283 0.0263

Moon 41364-02-14 04:48 G 16828994.53 16828994.70 16828994.87 0.2676 0.0119

Earth 41364-02-14 06:29 G 16828994.60 16828994.77 16828994.93 0.2679 0.0191 *

Moon 41367-08-11 01:12 G 16830268.47 16830268.55 16830268.63 0.2646 0.1744

Earth 41367-08-11 01:26 G 16830268.48 16830268.56 16830268.64 0.2653 0.1701 *

Jupiter 41368-09-13 02:38 G 16830667.44 16830667.61 16830667.79 0.0507 0.0210

Uranus 41370-01-08 16:19 G 16831150.14 16831150.18 16831150.23 0.0142 0.0132

Uranus 41370-04-06 19:41 G 16831238.25 16831238.32 16831238.41 0.0142 0.0111

Uranus 41370-07-03 23:02 G 16831326.37 16831326.46 16831326.57 0.0142 0.0090

Mars 41370-08-20 06:43 G 16831373.72 16831373.78 16831373.84 0.1593 0.1464

Venus 41370-08-26 08:38 G 16831379.70 16831379.86 16831380.01 0.3682 0.0305

Uranus 41370-09-30 02:38 G 16831414.50 16831414.61 16831414.73 0.0142 0.0069

Uranus 41370-12-27 06:00 G 16831502.63 16831502.75 16831502.88 0.0143 0.0048

Uranus 41371-03-25 09:36 G 16831590.77 16831590.90 16831591.03 0.0143 0.0027

Uranus 41371-06-21 12:58 G 16831678.91 16831679.04 16831679.17 0.0143 0.0006

Uranus 41371-09-17 16:34 G 16831767.06 16831767.19 16831767.32 0.0143 0.0016

Uranus 41371-12-14 20:10 G 16831855.21 16831855.34 16831855.46 0.0143 0.0038

Uranus 41372-03-11 23:31 G 16831943.36 16831943.48 16831943.60 0.0143 0.0060

Uranus 41372-06-08 03:07 G 16832031.52 16832031.63 16832031.74 0.0143 0.0082

Uranus 41372-09-04 06:43 G 16832119.69 16832119.78 16832119.87 0.0143 0.0103

Uranus 41372-12-01 10:05 G 16832207.86 16832207.92 16832207.99 0.0143 0.0126

Jupiter 41374-05-10 00:29 G 16832732.42 16832732.52 16832732.63 0.0519 0.0307

Jupiter 41374-08-07 04:34 G 16832821.59 16832821.69 16832821.80 0.0517 0.0282

Mars 41375-04-28 12:58 G 16833086.00 16833086.04 16833086.08 0.1940 0.1809

Saturn 41379-07-18 19:55 G 16834628.20 16834628.33 16834628.47 0.0276 0.0191

Saturn 41379-10-15 19:41 G 16834717.13 16834717.32 16834717.52 0.0277 0.0011

Mars 41380-01-10 08:38 G 16834803.69 16834803.86 16834804.03 0.1592 0.0125

Saturn 41380-01-12 19:26 G 16834806.19 16834806.31 16834806.43 0.0278 0.0211

Jupiter 41380-07-01 22:48 G 16834977.35 16834977.45 16834977.55 0.0507 0.0424

Moon 41380-08-12 17:46 G 16835019.14 16835019.24 16835019.35 0.2650 0.0544

Earth 41380-08-12 18:29 G 16835019.16 16835019.27 16835019.37 0.2653 0.0473 *

Jupiter 41380-09-30 12:43 G 16835067.95 16835068.03 16835068.13 0.0509 0.0443

Mars 41384-09-17 21:07 G 16836516.27 16836516.38 16836516.49 0.1942 0.0359

Jupiter 41386-02-26 04:34 G 16837042.64 16837042.69 16837042.75 0.0519 0.0464

Jupiter 41386-05-26 08:38 G 16837131.74 16837131.86 16837131.99 0.0517 0.0125

Mars 41389-06-01 10:19 G 16838233.82 16838233.93 16838234.04 0.1592 0.1229

Jupiter 41392-07-19 09:22 G 16839377.73 16839377.89 16839378.06 0.0508 0.0234

Saturn 41392-08-29 17:46 G 16839419.15 16839419.24 16839419.33 0.0287 0.0202

Saturn 41392-11-26 04:48 G 16839507.57 16839507.70 16839507.83 0.0286 0.0056

Saturn 41393-02-22 15:50 G 16839596.04 16839596.16 16839596.28 0.0285 0.0089

Saturn 41393-05-22 02:53 G 16839684.55 16839684.62 16839684.69 0.0283 0.0233

Moon 41393-08-15 10:34 G 16839769.84 16839769.94 16839770.05 0.2653 0.0729

Earth 41393-08-15 11:17 G 16839769.87 16839769.97 16839770.07 0.2652 0.0775 *

Mars 41394-02-08 05:17 G 16839946.63 16839946.72 16839946.81 0.1943 0.1128

Neptune 41394-03-26 22:19 G 16839993.43 16839993.43 16839993.45 0.0089 0.0088

Neptune 41394-06-23 02:10 G 16840081.50 16840081.59 16840081.69 0.0089 0.0077

Neptune 41394-09-19 05:46 G 16840169.62 16840169.74 16840169.88 0.0089 0.0066

Neptune 41394-12-16 09:22 G 16840257.75 16840257.89 16840258.06 0.0089 0.0055

Neptune 41395-03-14 13:12 G 16840345.89 16840346.05 16840346.23 0.0089 0.0044

Neptune 41395-06-10 16:48 G 16840434.03 16840434.20 16840434.40 0.0089 0.0033

Venus 41395-07-24 02:24 G 16840477.54 16840477.60 16840477.66 0.3689 0.2972

Neptune 41395-09-06 20:53 G 16840522.18 16840522.37 16840522.56 0.0089 0.0021

Neptune 41395-12-04 00:29 G 16840610.33 16840610.52 16840610.72 0.0089 0.0010

Neptune 41396-03-01 04:19 G 16840698.48 16840698.68 16840698.87 0.0089 0.0002

Neptune 41396-05-28 07:55 G 16840786.64 16840786.83 16840787.03 0.0089 0.0013

Neptune 41396-08-24 11:31 G 16840874.80 16840874.98 16840875.17 0.0089 0.0024

Neptune 41396-11-20 15:07 G 16840962.96 16840963.13 16840963.32 0.0089 0.0035

Moon 41397-02-11 01:55 G 16841045.54 16841045.58 16841045.62 0.2673 0.2595

Earth 41397-02-11 03:07 G 16841045.57 16841045.63 16841045.69 0.2679 0.2487 *

Neptune 41397-02-16 18:43 G 16841051.12 16841051.28 16841051.46 0.0089 0.0046

Neptune 41397-05-15 22:19 G 16841139.29 16841139.43 16841139.59 0.0089 0.0057

Neptune 41397-08-12 02:10 G 16841227.47 16841227.59 16841227.72 0.0089 0.0068

Neptune 41397-11-08 05:46 G 16841315.66 16841315.74 16841315.83 0.0089 0.0079

Jupiter 41398-03-14 13:12 G 16841441.92 16841442.05 16841442.17 0.0518 0.0032

Venus 41401-02-06 18:00 G 16842501.15 16842501.25 16842501.35 0.3689 0.0943

Jupiter 41404-05-08 05:17 G 16843687.53 16843687.72 16843687.90 0.0508 0.0016

Moon 41406-08-19 04:05 G 16844520.60 16844520.67 16844520.74 0.2658 0.1932

Earth 41406-08-19 04:19 G 16844520.61 16844520.68 16844520.75 0.2651 0.2011 *

Venus 41406-08-23 09:36 G 16844524.80 16844524.90 16844525.00 0.3688 0.1128

Saturn 41408-12-05 20:24 G 16845360.25 16845360.35 16845360.45 0.0276 0.0232

Saturn 41409-03-04 20:10 G 16845449.15 16845449.34 16845449.53 0.0277 0.0033

Saturn 41409-06-01 19:41 G 16845538.18 16845538.32 16845538.48 0.0279 0.0169

Jupiter 41410-01-01 17:31 G 16845752.11 16845752.23 16845752.35 0.0519 0.0179

Moon 41410-02-15 11:46 G 16845796.83 16845796.99 16845797.15 0.2677 0.0607

Earth 41410-02-15 13:26 G 16845796.90 16845797.06 16845797.22 0.2680 0.0776 *

Jupiter 41410-03-31 21:36 G 16845841.32 16845841.40 16845841.47 0.0517 0.0408

Uranus 41410-08-14 10:48 G 16845976.84 16845976.95 16845977.07 0.0136 0.0109

Uranus 41410-11-10 18:14 G 16846065.12 16846065.26 16846065.43 0.0136 0.0081

Uranus 41411-02-07 01:55 G 16846153.41 16846153.58 16846153.77 0.0136 0.0053

Uranus 41411-05-06 09:36 G 16846241.71 16846241.90 16846242.09 0.0136 0.0026

Uranus 41411-08-02 17:02 G 16846330.02 16846330.21 16846330.41 0.0136 0.0003

Uranus 41411-10-30 00:29 G 16846418.34 16846418.52 16846418.71 0.0136 0.0029

Uranus 41412-01-26 07:41 G 16846506.66 16846506.82 16846507.01 0.0136 0.0057

Venus 41412-03-08 01:26 G 16846548.51 16846548.56 16846548.61 0.3688 0.3212

Uranus 41412-04-23 15:22 G 16846594.99 16846595.14 16846595.29 0.0135 0.0083

Uranus 41412-07-20 22:34 G 16846683.34 16846683.44 16846683.56 0.0135 0.0110

Moon 41413-08-12 06:00 G 16847070.66 16847070.75 16847070.84 0.2647 0.1440

Earth 41413-08-12 06:14 G 16847070.67 16847070.76 16847070.85 0.2653 0.1451 *

Jupiter 41416-02-25 00:43 G 16847997.36 16847997.53 16847997.70 0.0507 0.0208

Mars 41419-07-12 09:22 G 16849230.72 16849230.89 16849231.05 0.1592 0.0340

Jupiter 41421-10-20 22:19 G 16850062.33 16850062.43 16850062.53 0.0519 0.0322

Saturn 41422-01-17 20:53 G 16850151.30 16850151.37 16850151.45 0.0287 0.0233

Jupiter 41422-01-18 02:24 G 16850151.49 16850151.60 16850151.71 0.0517 0.0266

Saturn 41422-04-16 08:10 G 16850239.72 16850239.84 16850239.96 0.0286 0.0086

Saturn 41422-07-13 19:12 G 16850328.17 16850328.30 16850328.43 0.0284 0.0059

Saturn 41422-10-10 06:14 G 16850416.67 16850416.76 16850416.85 0.0283 0.0202

Mars 41424-03-19 21:07 G 16850943.27 16850943.38 16850943.49 0.1942 0.0509

Moon 41426-08-14 22:34 G 16851821.33 16851821.44 16851821.54 0.2651 0.0344

Earth 41426-08-14 23:02 G 16851821.36 16851821.46 16851821.57 0.2652 0.0222 *

Venus 41427-04-03 10:34 G 16852052.82 16852052.94 16852053.05 0.3682 0.2407

Jupiter 41427-12-13 19:26 G 16852307.22 16852307.31 16852307.40 0.0506 0.0442

Jupiter 41428-03-13 09:22 G 16852397.79 16852397.89 16852397.99 0.0508 0.0423

Mars 41428-12-01 11:02 G 16852660.83 16852660.96 16852661.09 0.1592 0.1008

Jupiter 41433-08-09 03:07 G 16854372.58 16854372.63 16854372.68 0.0520 0.0467

Mars 41433-08-10 05:17 G 16854373.62 16854373.72 16854373.82 0.1943 0.0955

Jupiter 41433-11-06 07:12 G 16854461.68 16854461.80 16854461.92 0.0518 0.0122

Saturn 41438-04-24 20:24 G 16856092.35 16856092.35 16856092.36 0.0276 0.0275

Saturn 41438-07-22 20:10 G 16856181.16 16856181.34 16856181.53 0.0277 0.0076

Saturn 41438-10-19 19:55 G 16856270.16 16856270.33 16856270.50 0.0278 0.0125

Moon 41439-08-17 15:22 G 16856572.04 16856572.14 16856572.24 0.2654 0.0927

Earth 41439-08-17 16:05 G 16856572.07 16856572.17 16856572.27 0.2652 0.1022 *

Jupiter 41439-12-31 05:31 G 16856707.56 16856707.73 16856707.90 0.0508 0.0208

Moon 41443-02-13 09:07 G 16857847.77 16857847.88 16857847.98 0.2673 0.2081

Earth 41443-02-13 10:19 G 16857847.81 16857847.93 16857848.04 0.2679 0.1884 *

Jupiter 41445-08-25 11:17 G 16858771.84 16858771.97 16858772.10 0.0518 0.0036

Moon 41446-08-10 18:00 G 16859122.21 16859122.25 16859122.30 0.2646 0.2360

Earth 41446-08-10 18:00 G 16859122.21 16859122.25 16859122.29 0.2653 0.2441 *

Saturn 41451-06-07 00:29 G 16860883.47 16860883.52 16860883.57 0.0288 0.0264

Saturn 41451-09-03 11:31 G 16860971.87 16860971.98 16860972.10 0.0286 0.0117

Jupiter 41451-10-19 01:55 G 16861017.39 16861017.58 16861017.77 0.0508 0.0007

Saturn 41451-11-30 22:34 G 16861060.32 16861060.44 16861060.57 0.0285 0.0031

Saturn 41452-02-27 09:36 G 16861148.80 16861148.90 16861149.01 0.0284 0.0173

Venus 41452-02-28 23:46 G 16861150.41 16861150.49 16861150.57 0.3689 0.2244

Moon 41452-08-19 08:53 G 16861322.81 16861322.87 16861322.92 0.2658 0.2280

Earth 41452-08-19 09:07 G 16861322.82 16861322.88 16861322.93 0.2651 0.2262 *

Uranus 41454-01-30 00:14 G 16861851.46 16861851.51 16861851.58 0.0142 0.0123

Uranus 41454-04-28 03:50 G 16861939.57 16861939.66 16861939.75 0.0142 0.0102

Uranus 41454-07-25 07:12 G 16862027.69 16862027.80 16862027.91 0.0142 0.0081

Uranus 41454-10-21 10:34 G 16862115.83 16862115.94 16862116.06 0.0142 0.0060

Uranus 41455-01-17 13:55 G 16862203.96 16862204.08 16862204.21 0.0142 0.0040

Uranus 41455-04-15 17:31 G 16862292.10 16862292.23 16862292.36 0.0143 0.0018

Uranus 41455-07-12 21:07 G 16862380.24 16862380.38 16862380.51 0.0143 0.0005

Uranus 41455-10-09 00:29 G 16862468.39 16862468.52 16862468.65 0.0143 0.0025

Uranus 41456-01-05 04:05 G 16862556.54 16862556.67 16862556.79 0.0143 0.0047

Moon 41456-02-16 18:43 G 16862599.13 16862599.28 16862599.43 0.2679 0.1134

Earth 41456-02-16 20:38 G 16862599.22 16862599.36 16862599.50 0.2680 0.1375 *

Uranus 41456-04-02 07:26 G 16862644.70 16862644.81 16862644.93 0.0143 0.0069

Uranus 41456-06-29 11:02 G 16862732.86 16862732.96 16862733.06 0.0143 0.0091

Uranus 41456-09-25 14:38 G 16862821.03 16862821.11 16862821.19 0.0143 0.0112

Uranus 41456-12-22 18:14 G 16862909.22 16862909.26 16862909.30 0.0143 0.0135

Jupiter 41457-06-13 15:36 G 16863082.04 16863082.15 16863082.27 0.0518 0.0188

Jupiter 41457-09-10 19:41 G 16863171.25 16863171.32 16863171.40 0.0517 0.0400

Venus 41457-09-13 15:22 G 16863174.04 16863174.14 16863174.25 0.3689 0.0235

Mars 41459-01-10 09:50 G 16863657.75 16863657.91 16863658.07 0.1592 0.0549

Moon 41459-08-13 10:34 G 16863872.85 16863872.94 16863873.03 0.2648 0.1294

Earth 41459-08-13 10:48 G 16863872.86 16863872.95 16863873.05 0.2653 0.1206 *

Venus 41463-03-30 07:12 G 16865197.71 16865197.80 16865197.89 0.3688 0.1883

Jupiter 41463-08-06 21:50 G 16865327.24 16865327.41 16865327.58 0.0507 0.0220

Mars 41463-09-18 21:07 G 16865370.27 16865370.38 16865370.49 0.1942 0.0679

Saturn 41467-12-09 20:10 G 16866913.17 16866913.34 16866913.51 0.0277 0.0121

Saturn 41468-03-07 19:55 G 16867002.15 16867002.33 16867002.51 0.0278 0.0081

Mars 41468-06-01 11:46 G 16867087.84 16867087.99 16867088.14 0.1592 0.0795

Jupiter 41469-04-01 20:10 G 16867392.24 16867392.34 16867392.43 0.0519 0.0340

Jupiter 41469-06-30 00:14 G 16867481.40 16867481.51 16867481.62 0.0517 0.0249

Moon 41472-08-15 03:07 G 16868623.52 16868623.63 16868623.74 0.2651 0.0037

Earth 41472-08-15 03:50 G 16868623.55 16868623.66 16868623.77 0.2652 0.0041 *

Mars 41473-02-08 05:17 G 16868800.62 16868800.72 16868800.82 0.1942 0.0780

Neptune 41474-07-20 18:00 G 16869328.23 16869328.25 16869328.29 0.0089 0.0086

Neptune 41474-10-16 19:26 G 16869416.25 16869416.31 16869416.37 0.0089 0.0078

Neptune 41475-01-12 20:38 G 16869504.29 16869504.36 16869504.44 0.0089 0.0071

Neptune 41475-04-10 21:50 G 16869592.33 16869592.41 16869592.51 0.0089 0.0063

Jupiter 41475-05-25 17:17 G 16869637.13 16869637.22 16869637.31 0.0506 0.0441

Neptune 41475-07-07 23:17 G 16869680.37 16869680.47 16869680.57 0.0089 0.0056

Jupiter 41475-08-24 07:26 G 16869727.71 16869727.81 16869727.91 0.0508 0.0424

Neptune 41475-10-04 00:14 G 16869768.41 16869768.51 16869768.63 0.0089 0.0049

Neptune 41475-12-31 01:41 G 16869856.46 16869856.57 16869856.69 0.0089 0.0041

Neptune 41476-03-28 02:53 G 16869944.51 16869944.62 16869944.75 0.0089 0.0034

Neptune 41476-06-24 04:05 G 16870032.56 16870032.67 16870032.81 0.0089 0.0027

Neptune 41476-09-20 05:31 G 16870120.60 16870120.73 16870120.86 0.0089 0.0019

Neptune 41476-12-17 06:43 G 16870208.66 16870208.78 16870208.92 0.0089 0.0012

Neptune 41477-03-15 08:10 G 16870296.71 16870296.84 16870296.97 0.0089 0.0004

Neptune 41477-06-11 09:22 G 16870384.76 16870384.89 16870385.02 0.0089 0.0004

Neptune 41477-09-07 10:34 G 16870472.81 16870472.94 16870473.08 0.0089 0.0012

Neptune 41477-12-04 12:00 G 16870560.87 16870561.00 16870561.13 0.0089 0.0019

Neptune 41478-03-02 12:58 G 16870648.92 16870649.04 16870649.18 0.0089 0.0027

Venus 41478-04-24 04:05 G 16870701.54 16870701.67 16870701.80 0.3682 0.1880

Neptune 41478-05-29 14:24 G 16870736.98 16870737.10 16870737.23 0.0089 0.0034

Neptune 41478-08-25 15:36 G 16870825.04 16870825.15 16870825.27 0.0089 0.0041

Neptune 41478-11-21 17:02 G 16870913.10 16870913.21 16870913.32 0.0088 0.0048

Neptune 41479-02-17 18:00 G 16871001.16 16871001.25 16871001.37 0.0088 0.0057

Neptune 41479-05-16 19:26 G 16871089.23 16871089.31 16871089.41 0.0088 0.0064

Neptune 41479-08-12 20:38 G 16871177.30 16871177.36 16871177.45 0.0088 0.0071

Neptune 41479-11-08 22:05 G 16871265.37 16871265.42 16871265.49 0.0088 0.0079

Neptune 41480-02-04 23:31 G 16871353.45 16871353.48 16871353.51 0.0088 0.0086

Jupiter 41481-01-19 00:43 G 16871702.49 16871702.53 16871702.58 0.0520 0.0484

Saturn 41481-01-20 14:53 G 16871704.02 16871704.12 16871704.24 0.0286 0.0147

Jupiter 41481-04-18 05:02 G 16871791.58 16871791.71 16871791.83 0.0518 0.0107

Saturn 41481-04-19 02:10 G 16871792.46 16871792.59 16871792.71 0.0285 0.0009

Saturn 41481-07-16 12:58 G 16871880.93 16871881.04 16871881.16 0.0284 0.0143

Pluto 41483-06-13 13:55 G 16872578.07 16872578.08 16872578.12 0.0068 0.0067

Pluto 41483-09-09 14:24 G 16872666.04 16872666.10 16872666.19 0.0068 0.0057

Pluto 41483-12-06 15:07 G 16872754.04 16872754.13 16872754.23 0.0069 0.0046

Pluto 41484-03-03 15:50 G 16872842.05 16872842.16 16872842.27 0.0069 0.0036

Pluto 41484-05-30 16:19 G 16872930.06 16872930.18 16872930.30 0.0069 0.0026

Pluto 41484-08-26 16:48 G 16873018.08 16873018.20 16873018.33 0.0069 0.0016

Pluto 41484-11-22 17:31 G 16873106.09 16873106.23 16873106.36 0.0069 0.0005

Pluto 41485-02-18 18:00 G 16873194.12 16873194.25 16873194.38 0.0069 0.0005

Pluto 41485-05-17 18:29 G 16873282.14 16873282.27 16873282.40 0.0069 0.0016

Pluto 41485-08-13 18:58 G 16873370.17 16873370.29 16873370.42 0.0069 0.0027

Moon 41485-08-17 20:24 G 16873374.25 16873374.35 16873374.44 0.2656 0.1204

Earth 41485-08-17 20:53 G 16873374.27 16873374.37 16873374.46 0.2652 0.1276 *

Pluto 41485-11-09 19:26 G 16873458.21 16873458.31 16873458.43 0.0069 0.0037

Pluto 41486-02-05 20:10 G 16873546.25 16873546.34 16873546.44 0.0070 0.0048

Pluto 41486-05-04 20:24 G 16873634.30 16873634.35 16873634.43 0.0070 0.0059

Pluto 41486-07-31 21:07 G 16873722.38 16873722.38 16873722.40 0.0070 0.0069

Jupiter 41487-06-12 02:10 G 16874037.42 16874037.59 16874037.77 0.0508 0.0193

Moon 41489-02-13 15:50 G 16874650.02 16874650.16 16874650.30 0.2674 0.1383

Earth 41489-02-13 17:17 G 16874650.07 16874650.22 16874650.36 0.2679 0.1296 *

Moon 41492-08-10 22:48 G 16875924.39 16875924.45 16875924.50 0.2646 0.2230

Earth 41492-08-10 22:34 G 16875924.39 16875924.44 16875924.50 0.2653 0.2193 *

Jupiter 41493-02-04 09:50 G 16876101.78 16876101.91 16876102.03 0.0518 0.0041

Uranus 41494-06-07 11:31 G 16876589.92 16876589.98 16876590.07 0.0136 0.0125

Uranus 41494-09-03 19:12 G 16876678.18 16876678.30 16876678.45 0.0136 0.0097

Uranus 41494-12-01 03:07 G 16876766.46 16876766.63 16876766.79 0.0136 0.0069

Uranus 41495-02-27 10:34 G 16876854.76 16876854.94 16876855.13 0.0136 0.0042

Uranus 41495-05-26 18:00 G 16876943.06 16876943.25 16876943.45 0.0136 0.0015

Uranus 41495-08-23 01:26 G 16877031.37 16877031.56 16877031.76 0.0136 0.0014

Uranus 41495-11-19 08:53 G 16877119.69 16877119.87 16877120.06 0.0136 0.0041

Uranus 41496-02-15 16:19 G 16877208.02 16877208.18 16877208.35 0.0136 0.0068

Uranus 41496-05-13 23:31 G 16877296.36 16877296.48 16877296.63 0.0135 0.0095

Uranus 41496-08-10 06:43 G 16877384.72 16877384.78 16877384.88 0.0135 0.0122

Saturn 41497-04-27 19:41 G 16877645.17 16877645.32 16877645.48 0.0276 0.0168

Saturn 41497-07-25 19:26 G 16877734.12 16877734.31 16877734.50 0.0278 0.0034

Saturn 41497-10-22 19:12 G 16877823.21 16877823.30 16877823.40 0.0279 0.0236

Mars 41498-07-11 10:34 G 16878084.79 16878084.94 16878085.09 0.1592 0.0763

Moon 41498-08-20 13:41 G 16878125.03 16878125.07 16878125.10 0.2658 0.2466

Earth 41498-08-20 13:41 G 16878125.04 16878125.07 16878125.10 0.2651 0.2508 *

Jupiter 41499-03-30 22:19 G 16878347.24 16878347.43 16878347.62 0.0507 0.0022

Moon 41502-02-18 01:41 G 16879401.44 16879401.57 16879401.70 0.2680 0.1694

Earth 41502-02-18 03:36 G 16879401.54 16879401.65 16879401.76 0.2680 0.1970 *

Mars 41503-03-20 21:07 G 16879797.27 16879797.38 16879797.48 0.1941 0.0842

Venus 41503-03-23 05:46 G 16879799.71 16879799.74 16879799.77 0.3689 0.3527

Jupiter 41504-11-24 13:55 G 16880411.96 16880412.08 16880412.19 0.0518 0.0194

Jupiter 41505-02-21 18:00 G 16880501.17 16880501.25 16880501.33 0.0517 0.0393

Moon 41505-08-14 15:07 G 16880675.03 16880675.13 16880675.23 0.2648 0.0966

Earth 41505-08-14 15:36 G 16880675.05 16880675.15 16880675.25 0.2653 0.0957 *

Mars 41507-12-02 12:29 G 16881514.86 16881515.02 16881515.18 0.1592 0.0584

Venus 41508-10-05 21:22 G 16881823.29 16881823.39 16881823.48 0.3689 0.1511

Saturn 41510-06-10 18:14 G 16882436.16 16882436.26 16882436.36 0.0287 0.0179

Saturn 41510-09-07 05:17 G 16882524.60 16882524.72 16882524.85 0.0286 0.0034

Saturn 41510-12-04 16:19 G 16882613.06 16882613.18 16882613.30 0.0284 0.0112

Jupiter 41511-01-17 18:43 G 16882657.11 16882657.28 16882657.45 0.0507 0.0232

Saturn 41511-03-03 03:22 G 16882701.59 16882701.64 16882701.70 0.0283 0.0254

Mars 41512-08-10 05:02 G 16883227.60 16883227.71 16883227.82 0.1943 0.0642

Venus 41514-04-21 12:58 G 16883846.94 16883847.04 16883847.14 0.3689 0.0558

Jupiter 41516-09-12 18:14 G 16884722.17 16884722.26 16884722.36 0.0519 0.0345

Jupiter 41516-12-10 22:19 G 16884811.32 16884811.43 16884811.54 0.0517 0.0244

Moon 41518-08-17 07:55 G 16885425.72 16885425.83 16885425.94 0.2651 0.0149

Earth 41518-08-17 08:38 G 16885425.75 16885425.86 16885425.96 0.2652 0.0297 *

Venus 41519-11-05 04:34 G 16885870.62 16885870.69 16885870.76 0.3688 0.2637

Jupiter 41522-11-05 14:38 G 16886967.03 16886967.11 16886967.20 0.0507 0.0448

Jupiter 41523-02-04 04:48 G 16887057.60 16887057.70 16887057.81 0.0508 0.0418

Saturn 41526-09-15 19:12 G 16888377.19 16888377.30 16888377.42 0.0276 0.0216

Saturn 41526-12-13 18:58 G 16888466.10 16888466.29 16888466.48 0.0277 0.0016

Saturn 41527-03-12 18:43 G 16888555.14 16888555.28 16888555.42 0.0279 0.0187

Jupiter 41528-07-01 22:48 G 16889032.42 16889032.45 16889032.48 0.0520 0.0497

Jupiter 41528-09-29 02:53 G 16889121.49 16889121.62 16889121.74 0.0518 0.0093

Moon 41531-08-20 00:58 G 16890176.46 16890176.54 16890176.63 0.2657 0.1491

Earth 41531-08-20 01:26 G 16890176.48 16890176.56 16890176.65 0.2652 0.1522 *

Jupiter 41534-11-23 00:29 G 16891367.35 16891367.52 16891367.69 0.0508 0.0198

Venus 41534-11-30 06:00 G 16891374.60 16891374.75 16891374.90 0.3682 0.0248

Moon 41535-02-15 22:48 G 16891452.29 16891452.45 16891452.60 0.2676 0.0994

Earth 41535-02-16 00:29 G 16891452.36 16891452.52 16891452.68 0.2679 0.0693 *

Uranus 41537-11-24 04:48 G 16892464.67 16892464.70 16892464.75 0.0142 0.0135

Mars 41538-01-10 11:17 G 16892511.84 16892511.97 16892512.11 0.1592 0.0983

Uranus 41538-02-20 08:24 G 16892552.78 16892552.85 16892552.93 0.0142 0.0114

Uranus 41538-05-19 11:46 G 16892640.90 16892640.99 16892641.09 0.0142 0.0093

Moon 41538-08-13 03:22 G 16892726.57 16892726.64 16892726.71 0.2647 0.1897

Earth 41538-08-13 03:22 G 16892726.57 16892726.64 16892726.71 0.2653 0.1946 *

Uranus 41538-08-15 15:07 G 16892729.03 16892729.13 16892729.25 0.0142 0.0073

Uranus 41538-11-11 18:43 G 16892817.16 16892817.28 16892817.40 0.0142 0.0051

Uranus 41539-02-07 22:05 G 16892905.30 16892905.42 16892905.55 0.0143 0.0030

Uranus 41539-05-07 01:41 G 16892993.44 16892993.57 16892993.70 0.0143 0.0008

Uranus 41539-08-03 05:02 G 16893081.58 16893081.71 16893081.84 0.0143 0.0014

Saturn 41539-10-28 21:22 G 16893168.31 16893168.39 16893168.48 0.0287 0.0212

Uranus 41539-10-30 08:38 G 16893169.73 16893169.86 16893169.99 0.0143 0.0035

Saturn 41540-01-25 08:24 G 16893256.73 16893256.85 16893256.98 0.0285 0.0066

Uranus 41540-01-26 12:00 G 16893257.88 16893258.00 16893258.13 0.0143 0.0057

Saturn 41540-04-22 19:26 G 16893345.19 16893345.31 16893345.44 0.0284 0.0080

Uranus 41540-04-23 15:36 G 16893346.04 16893346.15 16893346.26 0.0143 0.0078

Jupiter 41540-07-18 07:41 G 16893431.69 16893431.82 16893431.94 0.0518 0.0053

Saturn 41540-07-20 06:29 G 16893433.69 16893433.77 16893433.85 0.0283 0.0222

Uranus 41540-07-20 19:12 G 16893434.21 16893434.30 16893434.39 0.0143 0.0100

Uranus 41540-10-16 22:48 G 16893522.38 16893522.45 16893522.52 0.0143 0.0122

Mars 41542-09-18 21:07 G 16894224.28 16894224.38 16894224.47 0.1941 0.1006

Jupiter 41546-09-10 19:26 G 16895677.13 16895677.31 16895677.50 0.0507 0.0035

Mars 41547-06-02 13:12 G 16895941.88 16895942.05 16895942.21 0.1592 0.0365

Moon 41548-02-19 08:38 G 16896203.79 16896203.86 16896203.94 0.2680 0.2354

Earth 41548-02-19 10:48 G 16896203.90 16896203.95 16896203.99 0.2680 0.2559 *

Moon 41551-08-15 19:41 G 16897477.22 16897477.32 16897477.42 0.2649 0.0845

Earth 41551-08-15 20:24 G 16897477.24 16897477.35 16897477.45 0.2653 0.0717 *

Mars 41552-02-09 05:02 G 16897654.60 16897654.71 16897654.82 0.1943 0.0466

Jupiter 41552-05-06 12:29 G 16897741.90 16897742.02 16897742.13 0.0519 0.0195

Jupiter 41552-08-03 16:34 G 16897831.11 16897831.19 16897831.27 0.0517 0.0394

Saturn 41556-02-02 18:00 G 16899109.22 16899109.25 16899109.29 0.0276 0.0270

Saturn 41556-05-01 17:46 G 16899198.06 16899198.24 16899198.43 0.0277 0.0070

Saturn 41556-07-29 17:31 G 16899287.06 16899287.23 16899287.40 0.0278 0.0132

Jupiter 41558-06-29 15:36 G 16899986.99 16899987.15 16899987.32 0.0507 0.0246

Neptune 41558-12-23 18:58 G 16900164.29 16900164.29 16900164.32 0.0089 0.0088

Neptune 41559-03-21 22:48 G 16900252.36 16900252.45 16900252.55 0.0089 0.0077

Neptune 41559-06-18 02:24 G 16900340.48 16900340.60 16900340.74 0.0089 0.0066

Neptune 41559-09-14 06:00 G 16900428.61 16900428.75 16900428.92 0.0089 0.0055

Venus 41559-10-28 03:07 G 16900472.57 16900472.63 16900472.70 0.3689 0.2800

Neptune 41559-12-11 09:50 G 16900516.75 16900516.91 16900517.10 0.0089 0.0044

Neptune 41560-03-08 13:55 G 16900604.90 16900605.08 16900605.26 0.0089 0.0032

Neptune 41560-06-04 17:31 G 16900693.04 16900693.23 16900693.43 0.0089 0.0021

Neptune 41560-08-31 21:22 G 16900781.19 16900781.39 16900781.59 0.0089 0.0009

Neptune 41560-11-28 00:58 G 16900869.35 16900869.54 16900869.74 0.0089 0.0002

Neptune 41561-02-24 04:48 G 16900957.50 16900957.70 16900957.89 0.0089 0.0013

Neptune 41561-05-23 08:24 G 16901045.66 16901045.85 16901046.04 0.0089 0.0024

Mars 41561-07-01 13:12 G 16901085.04 16901085.05 16901085.06 0.1943 0.1932

Neptune 41561-08-19 11:46 G 16901133.83 16901133.99 16901134.19 0.0089 0.0036

Neptune 41561-11-15 15:22 G 16901221.99 16901222.14 16901222.33 0.0089 0.0047

Neptune 41562-02-11 19:12 G 16901310.16 16901310.30 16901310.46 0.0089 0.0058

Neptune 41562-05-10 22:48 G 16901398.34 16901398.45 16901398.59 0.0089 0.0069

Neptune 41562-08-07 02:24 G 16901486.53 16901486.60 16901486.70 0.0089 0.0080

Jupiter 41564-02-23 16:48 G 16902052.10 16902052.20 16902052.29 0.0519 0.0350

Jupiter 41564-05-22 20:38 G 16902141.25 16902141.36 16902141.47 0.0517 0.0239

Moon 41564-08-17 12:43 G 16902227.92 16902228.03 16902228.13 0.2653 0.0503

Earth 41564-08-17 13:12 G 16902227.95 16902228.05 16902228.16 0.2652 0.0532 *

Venus 41565-05-12 18:43 G 16902496.18 16902496.28 16902496.38 0.3689 0.0765

Saturn 41569-03-17 00:29 G 16903900.46 16903900.52 16903900.59 0.0288 0.0247

Saturn 41569-06-13 11:46 G 16903988.87 16903988.99 16903989.11 0.0286 0.0100

Saturn 41569-09-09 22:48 G 16904077.32 16904077.45 16904077.57 0.0285 0.0046

Saturn 41569-12-07 09:36 G 16904165.81 16904165.90 16904166.00 0.0284 0.0190

Pluto 41570-01-09 18:29 G 16904199.15 16904199.27 16904199.39 0.0075 0.0060

Pluto 41570-04-07 20:38 G 16904287.21 16904287.36 16904287.54 0.0075 0.0040

Jupiter 41570-04-17 12:00 G 16904296.92 16904297.00 16904297.08 0.0507 0.0457

Pluto 41570-07-04 23:17 G 16904375.29 16904375.47 16904375.67 0.0075 0.0020

Jupiter 41570-07-17 02:10 G 16904387.48 16904387.59 16904387.70 0.0509 0.0411

Pluto 41570-10-01 02:10 G 16904463.39 16904463.59 16904463.79 0.0075 0.0000

Venus 41570-11-26 10:19 G 16904519.84 16904519.93 16904520.03 0.3688 0.1310

Pluto 41570-12-28 04:34 G 16904551.51 16904551.69 16904551.88 0.0075 0.0020

Pluto 41571-03-26 06:43 G 16904639.63 16904639.78 16904639.97 0.0075 0.0040

Pluto 41571-06-22 09:36 G 16904727.79 16904727.90 16904728.02 0.0074 0.0059

Jupiter 41575-12-12 21:07 G 16906362.35 16906362.38 16906362.42 0.0519 0.0498

Jupiter 41576-03-11 01:12 G 16906451.43 16906451.55 16906451.68 0.0517 0.0092

Venus 41576-06-11 02:10 G 16906543.55 16906543.59 16906543.62 0.3688 0.3396

Mars 41577-07-11 12:00 G 16906938.89 16906939.00 16906939.11 0.1593 0.1192

Moon 41577-08-20 05:46 G 16906978.66 16906978.74 16906978.82 0.2657 0.1673

Earth 41577-08-20 06:14 G 16906978.68 16906978.76 16906978.84 0.2651 0.1766 *

Uranus 41578-06-28 20:24 G 16907291.26 16907291.35 16907291.48 0.0136 0.0113

Uranus 41578-09-25 04:19 G 16907379.53 16907379.68 16907379.84 0.0136 0.0084

Uranus 41578-12-22 11:46 G 16907467.82 16907467.99 16907468.18 0.0136 0.0057

Uranus 41579-03-20 19:26 G 16907556.12 16907556.31 16907556.50 0.0136 0.0029

Uranus 41579-06-17 02:53 G 16907644.43 16907644.62 16907644.82 0.0136 0.0004

Uranus 41579-09-13 10:34 G 16907732.75 16907732.94 16907733.13 0.0136 0.0026

Uranus 41579-12-10 17:46 G 16907821.07 16907821.24 16907821.43 0.0136 0.0053

Uranus 41580-03-08 00:58 G 16907909.40 16907909.54 16907909.71 0.0135 0.0081

Uranus 41580-06-04 08:24 G 16907997.75 16907997.85 16907997.98 0.0135 0.0107

Uranus 41580-08-31 15:50 G 16908086.14 16908086.16 16908086.20 0.0135 0.0134

Moon 41581-02-16 05:31 G 16908254.57 16908254.73 16908254.90 0.2677 0.0212

Earth 41581-02-16 07:26 G 16908254.65 16908254.81 16908254.98 0.2679 0.0100 *

Mars 41582-03-19 20:53 G 16908651.28 16908651.37 16908651.46 0.1942 0.1169

Jupiter 41582-05-04 22:19 G 16908697.26 16908697.43 16908697.60 0.0508 0.0196

Moon 41584-08-13 07:55 G 16909528.75 16909528.83 16909528.91 0.2647 0.1743

Earth 41584-08-13 08:10 G 16909528.76 16909528.84 16909528.92 0.2653 0.1698 *

Saturn 41585-09-18 16:34 G 16909930.02 16909930.19 16909930.36 0.0277 0.0124

Saturn 41585-12-16 16:19 G 16910019.00 16910019.18 16910019.37 0.0278 0.0078

Mars 41586-12-01 13:55 G 16910368.91 16910369.08 16910369.25 0.1592 0.0150

Jupiter 41587-12-29 05:46 G 16910761.61 16910761.74 16910761.86 0.0518 0.0061

Venus 41591-07-07 07:55 G 16912047.71 16912047.83 16912047.95 0.3682 0.2357

Mars 41591-08-10 05:02 G 16912081.60 16912081.71 16912081.82 0.1942 0.0299

Jupiter 41594-02-20 18:14 G 16913007.07 16913007.26 16913007.45 0.0507 0.0023

Mars 41596-04-22 15:36 G 16913799.10 16913799.15 16913799.21 0.1591 0.1499

Moon 41597-08-16 00:29 G 16914279.41 16914279.52 16914279.62 0.2649 0.0488

Earth 41597-08-16 00:58 G 16914279.44 16914279.54 16914279.65 0.2652 0.0464 *

Saturn 41598-08-04 03:22 G 16914632.63 16914632.64 16914632.66 0.0287 0.0284

Saturn 41598-10-31 14:24 G 16914720.99 16914721.10 16914721.22 0.0286 0.0137

Saturn 41599-01-28 01:41 G 16914809.44 16914809.57 16914809.69 0.0285 0.0013

Saturn 41599-04-26 12:29 G 16914897.92 16914898.02 16914898.13 0.0284 0.0154

Jupiter 41599-10-17 10:34 G 16915071.82 16915071.94 16915072.05 0.0519 0.0205

Jupiter 41600-01-14 14:38 G 16915161.03 16915161.11 16915161.19 0.0517 0.0384

Mars 41600-12-30 13:12 G 16915512.01 16915512.05 16915512.10 0.1943 0.1765

Jupiter 41605-12-09 13:26 G 16917316.90 16917317.06 16917317.22 0.0507 0.0248

Moon 41610-08-18 17:17 G 16919030.12 16919030.22 16919030.33 0.2655 0.0642

Earth 41610-08-18 18:00 G 16919030.15 16919030.25 16919030.35 0.2652 0.0776 *

Jupiter 41611-08-05 15:22 G 16919382.05 16919382.14 16919382.23 0.0520 0.0348

Jupiter 41611-11-02 19:26 G 16919471.20 16919471.31 16919471.42 0.0518 0.0242

Saturn 41615-02-05 14:38 G 16920661.97 16920662.11 16920662.26 0.0276 0.0183

Saturn 41615-05-05 14:24 G 16920750.91 16920751.10 16920751.30 0.0277 0.0020

Saturn 41615-08-02 14:10 G 16920839.98 16920840.09 16920840.21 0.0279 0.0221

Venus 41616-06-03 00:29 G 16921145.44 16921145.52 16921145.61 0.3689 0.2076

Mars 41617-01-09 12:43 G 16921365.95 16921366.03 16921366.11 0.1593 0.1406

Moon 41617-08-11 20:10 G 16921580.33 16921580.34 16921580.35 0.2647 0.2628

Jupiter 41617-09-27 09:36 G 16921626.82 16921626.90 16921626.98 0.0506 0.0460

Jupiter 41617-12-26 23:31 G 16921717.38 16921717.48 16921717.60 0.0508 0.0406

Mars 41621-09-17 20:53 G 16923078.29 16923078.37 16923078.45 0.1941 0.1334

Uranus 41621-12-14 12:29 G 16923165.97 16923166.02 16923166.08 0.0142 0.0129

Venus 41621-12-17 16:05 G 16923169.07 16923169.17 16923169.28 0.3689 0.0106

Uranus 41622-03-12 15:50 G 16923254.08 16923254.16 16923254.25 0.0142 0.0108

Uranus 41622-06-08 19:12 G 16923342.21 16923342.30 16923342.41 0.0142 0.0087

Uranus 41622-09-04 22:48 G 16923430.34 16923430.45 16923430.57 0.0142 0.0066

Uranus 41622-12-02 02:24 G 16923518.47 16923518.60 16923518.72 0.0142 0.0045

Uranus 41623-02-28 05:46 G 16923606.61 16923606.74 16923606.87 0.0142 0.0023

Jupiter 41623-05-24 19:41 G 16923692.29 16923692.32 16923692.36 0.0519 0.0500

Uranus 41623-05-27 09:07 G 16923694.75 16923694.88 16923695.02 0.0143 0.0004

Moon 41623-08-21 10:34 G 16923780.87 16923780.94 16923781.01 0.2657 0.2012

Earth 41623-08-21 10:48 G 16923780.89 16923780.95 16923781.02 0.2651 0.2014 *

Jupiter 41623-08-21 23:46 G 16923781.37 16923781.49 16923781.62 0.0518 0.0089

Uranus 41623-08-23 12:43 G 16923782.90 16923783.03 16923783.16 0.0143 0.0020

Uranus 41623-11-19 16:05 G 16923871.05 16923871.17 16923871.30 0.0143 0.0042

Uranus 41624-02-15 19:41 G 16923959.20 16923959.32 16923959.44 0.0143 0.0063

Uranus 41624-05-13 23:02 G 16924047.36 16924047.46 16924047.57 0.0143 0.0085

Uranus 41624-08-10 02:38 G 16924135.53 16924135.61 16924135.70 0.0143 0.0107

Uranus 41624-11-06 06:14 G 16924223.71 16924223.76 16924223.82 0.0143 0.0129

Mars 41626-06-01 14:24 G 16924795.93 16924796.10 16924796.27 0.1592 0.0063

Moon 41627-02-17 12:43 G 16925056.86 16925057.03 16925057.19 0.2677 0.0151

Earth 41627-02-17 14:38 G 16925056.94 16925057.11 16925057.27 0.2679 0.0502 *

Venus 41627-07-03 07:41 G 16925192.74 16925192.82 16925192.91 0.3688 0.2052

Saturn 41628-03-19 17:17 G 16925453.12 16925453.22 16925453.32 0.0287 0.0176

Saturn 41628-06-16 04:19 G 16925541.55 16925541.68 16925541.81 0.0286 0.0030

Saturn 41628-09-12 15:22 G 16925630.02 16925630.14 16925630.26 0.0285 0.0116

Saturn 41628-12-10 02:24 G 16925718.55 16925718.60 16925718.65 0.0283 0.0259

Jupiter 41629-10-14 20:10 G 16926027.16 16926027.34 16926027.51 0.0508 0.0194

Moon 41630-08-14 12:29 G 16926330.93 16926331.02 16926331.11 0.2647 0.1484

Earth 41630-08-14 12:43 G 16926330.94 16926331.03 16926331.12 0.2653 0.1451 *

Mars 41631-02-08 05:02 G 16926508.59 16926508.71 16926508.82 0.1942 0.0169

Jupiter 41635-06-10 04:34 G 16928091.56 16928091.69 16928091.81 0.0518 0.0059

Mars 41635-10-22 16:19 G 16928226.08 16928226.18 16928226.28 0.1591 0.1286

Neptune 41639-04-17 17:17 G 16929499.19 16929499.22 16929499.26 0.0089 0.0085

Neptune 41639-07-14 18:14 G 16929587.21 16929587.26 16929587.34 0.0089 0.0078

Neptune 41639-10-10 19:55 G 16929675.25 16929675.33 16929675.41 0.0089 0.0070

Neptune 41640-01-06 20:53 G 16929763.29 16929763.37 16929763.47 0.0089 0.0063

Neptune 41640-04-03 22:05 G 16929851.33 16929851.42 16929851.53 0.0089 0.0056

Mars 41640-06-30 13:12 G 16929938.99 16929939.05 16929939.12 0.1943 0.1593

Neptune 41640-06-30 23:31 G 16929939.37 16929939.48 16929939.59 0.0089 0.0048

Neptune 41640-09-27 00:43 G 16930027.42 16930027.53 16930027.65 0.0089 0.0041

Neptune 41640-12-24 02:10 G 16930115.47 16930115.59 16930115.71 0.0089 0.0033

Neptune 41641-03-22 03:22 G 16930203.52 16930203.64 16930203.77 0.0089 0.0026

Neptune 41641-06-18 04:34 G 16930291.57 16930291.69 16930291.82 0.0089 0.0018

Jupiter 41641-08-02 16:19 G 16930337.00 16930337.18 16930337.37 0.0508 0.0021

Neptune 41641-09-14 06:00 G 16930379.62 16930379.75 16930379.88 0.0089 0.0011

Neptune 41641-12-11 07:12 G 16930467.67 16930467.80 16930467.93 0.0089 0.0003

Neptune 41642-03-09 08:24 G 16930555.72 16930555.85 16930555.98 0.0089 0.0005

Neptune 41642-06-05 09:50 G 16930643.78 16930643.91 16930644.04 0.0089 0.0012

Venus 41642-07-28 01:26 G 16930696.43 16930696.56 16930696.69 0.3682 0.1990

Neptune 41642-09-01 11:02 G 16930731.83 16930731.96 16930732.09 0.0089 0.0019

Neptune 41642-11-28 12:14 G 16930819.89 16930820.01 16930820.14 0.0089 0.0027

Neptune 41643-02-24 13:26 G 16930907.94 16930908.06 16930908.19 0.0089 0.0034

Neptune 41643-05-23 14:38 G 16930996.00 16930996.11 16930996.23 0.0089 0.0042

Moon 41643-08-17 05:17 G 16931081.61 16931081.72 16931081.82 0.2650 0.0356

Earth 41643-08-17 05:46 G 16931081.63 16931081.74 16931081.85 0.2652 0.0213 *

Neptune 41643-08-19 16:05 G 16931084.06 16931084.17 16931084.28 0.0089 0.0049

Neptune 41643-11-15 17:17 G 16931172.13 16931172.22 16931172.33 0.0089 0.0057

Neptune 41644-02-11 18:43 G 16931260.19 16931260.28 16931260.37 0.0089 0.0064

Neptune 41644-05-09 19:41 G 16931348.26 16931348.32 16931348.41 0.0089 0.0072

Saturn 41644-06-24 12:29 G 16931393.94 16931394.02 16931394.12 0.0276 0.0243

Neptune 41644-08-05 21:22 G 16931436.33 16931436.39 16931436.44 0.0089 0.0079

Saturn 41644-09-21 12:29 G 16931482.83 16931483.02 16931483.21 0.0277 0.0043

Neptune 41644-11-01 22:19 G 16931524.42 16931524.43 16931524.46 0.0088 0.0087

Saturn 41644-12-19 12:14 G 16931571.85 16931572.01 16931572.17 0.0278 0.0159

Jupiter 41647-03-29 08:53 G 16932401.76 16932401.87 16932401.99 0.0519 0.0208

Jupiter 41647-06-26 12:58 G 16932490.96 16932491.04 16932491.12 0.0517 0.0380

Jupiter 41653-05-21 12:14 G 16934646.85 16934647.01 16934647.18 0.0507 0.0234

Moon 41656-08-18 22:05 G 16935832.32 16935832.42 16935832.52 0.2655 0.0999

Earth 41656-08-18 22:48 G 16935832.35 16935832.45 16935832.54 0.2652 0.1029 *

Saturn 41657-08-06 19:41 G 16936185.24 16936185.32 16936185.40 0.0287 0.0218

Saturn 41657-11-03 06:43 G 16936273.66 16936273.78 16936273.91 0.0286 0.0071

Saturn 41658-01-30 17:46 G 16936362.12 16936362.24 16936362.37 0.0285 0.0075

Saturn 41658-04-29 04:48 G 16936450.62 16936450.70 16936450.78 0.0283 0.0219

Jupiter 41659-01-15 13:41 G 16936711.98 16936712.07 16936712.16 0.0519 0.0352

Jupiter 41659-04-14 17:46 G 16936801.13 16936801.24 16936801.35 0.0518 0.0238

Moon 41660-02-15 09:36 G 16937107.83 16937107.90 16937107.98 0.2675 0.2385

Earth 41660-02-15 11:02 G 16937107.87 16937107.96 16937108.06 0.2679 0.2176 *

Mars 41661-03-18 20:53 G 16937505.30 16937505.37 16937505.44 0.1941 0.1488

Uranus 41662-04-21 21:22 G 16937904.34 16937904.39 16937904.45 0.0136 0.0129

Uranus 41662-07-19 05:02 G 16937992.59 16937992.71 16937992.84 0.0136 0.0101

Uranus 41662-10-15 12:43 G 16938080.87 16938081.03 16938081.20 0.0136 0.0073

Uranus 41663-01-11 20:10 G 16938169.17 16938169.34 16938169.53 0.0136 0.0046

Uranus 41663-04-10 03:50 G 16938257.47 16938257.66 16938257.86 0.0136 0.0018

Uranus 41663-07-07 11:17 G 16938345.78 16938345.97 16938346.17 0.0136 0.0010

Earth 41663-08-13 00:29 G 16938382.48 16938382.52 16938382.56 0.2654 0.2435

Moon 41663-08-13 00:43 G 16938382.49 16938382.53 16938382.57 0.2647 0.2426 *

Uranus 41663-10-03 18:58 G 16938434.10 16938434.29 16938434.47 0.0136 0.0037

Uranus 41663-12-31 02:24 G 16938522.43 16938522.60 16938522.77 0.0136 0.0064

Uranus 41664-03-28 09:22 G 16938610.76 16938610.89 16938611.05 0.0135 0.0092

Uranus 41664-06-24 17:02 G 16938699.12 16938699.21 16938699.31 0.0135 0.0118

Jupiter 41665-03-09 07:41 G 16938956.75 16938956.82 16938956.91 0.0506 0.0456

Jupiter 41665-06-07 22:05 G 16939047.31 16939047.42 16939047.52 0.0508 0.0410

Mars 41665-11-30 15:22 G 16939222.97 16939223.14 16939223.30 0.1592 0.0283

Venus 41667-06-25 06:29 G 16939794.73 16939794.77 16939794.81 0.3690 0.3373

Moon 41669-08-21 15:22 G 16940583.08 16940583.14 16940583.20 0.2657 0.2185

Earth 41669-08-21 15:36 G 16940583.10 16940583.15 16940583.20 0.2651 0.2258 *

Mars 41670-08-09 05:02 G 16940935.59 16940935.71 16940935.82 0.1942 0.0049

Jupiter 41670-11-03 18:29 G 16941022.24 16941022.27 16941022.31 0.0520 0.0495

Jupiter 41671-01-31 22:34 G 16941111.32 16941111.44 16941111.57 0.0518 0.0098

Venus 41673-01-07 22:05 G 16941818.32 16941818.42 16941818.51 0.3689 0.1344

Moon 41673-02-17 19:41 G 16941859.16 16941859.32 16941859.47 0.2678 0.0961

Earth 41673-02-17 21:36 G 16941859.25 16941859.40 16941859.55 0.2680 0.1086 *

Saturn 41674-02-08 09:50 G 16942214.74 16942214.91 16942215.09 0.0277 0.0109

Saturn 41674-05-08 09:36 G 16942303.72 16942303.90 16942304.08 0.0278 0.0093

Mars 41675-04-22 17:02 G 16942653.08 16942653.21 16942653.33 0.1591 0.1074

Moon 41676-08-14 17:02 G 16943133.12 16943133.21 16943133.31 0.2647 0.1247

Earth 41676-08-14 17:31 G 16943133.13 16943133.23 16943133.32 0.2653 0.1200 *

Jupiter 41677-03-26 18:14 G 16943357.09 16943357.26 16943357.44 0.0508 0.0199

Venus 41678-07-24 13:41 G 16943841.96 16943842.07 16943842.17 0.3688 0.0736

Mars 41679-12-30 13:12 G 16944365.97 16944366.05 16944366.12 0.1943 0.1441

Jupiter 41682-11-20 03:07 G 16945421.51 16945421.63 16945421.76 0.0518 0.0056

Venus 41684-02-07 05:17 G 16945865.65 16945865.72 16945865.78 0.3688 0.2808

Saturn 41686-12-24 22:05 G 16946917.37 16946917.42 16946917.47 0.0288 0.0263

Saturn 41687-03-23 09:07 G 16947005.77 16947005.88 16947006.00 0.0287 0.0114

Saturn 41687-06-19 20:24 G 16947094.22 16947094.35 16947094.47 0.0286 0.0034

Saturn 41687-09-16 07:12 G 16947182.70 16947182.80 16947182.91 0.0284 0.0178

Jupiter 41689-01-12 14:38 G 16947666.92 16947667.11 16947667.30 0.0508 0.0015

Moon 41689-08-17 09:50 G 16947883.80 16947883.91 16947884.02 0.2652 0.0033

Earth 41689-08-17 10:34 G 16947883.83 16947883.94 16947884.04 0.2652 0.0096 *

Jupiter 41694-09-08 07:55 G 16949731.72 16949731.83 16949731.95 0.0518 0.0198

Jupiter 41694-12-06 12:00 G 16949820.92 16949821.00 16949821.08 0.0516 0.0388

Venus 41699-03-04 03:22 G 16951369.49 16951369.64 16951369.79 0.3682 0.0180

Mars 41700-09-17 20:53 G 16951932.31 16951932.37 16951932.43 0.1941 0.1665

Jupiter 41700-11-01 11:02 G 16951976.79 16951976.96 16951977.13 0.0507 0.0224

Moon 41702-08-21 02:53 G 16952634.52 16952634.62 16952634.71 0.2655 0.1141

Earth 41702-08-21 03:22 G 16952634.55 16952634.64 16952634.74 0.2652 0.1272 *

Saturn 41703-06-29 07:12 G 16952946.66 16952946.80 16952946.96 0.0276 0.0172

Saturn 41703-09-26 07:12 G 16953035.60 16953035.80 16953035.99 0.0277 0.0029

Saturn 41703-12-24 06:29 G 16953124.68 16953124.77 16953124.89 0.0278 0.0232

Mars 41705-06-01 15:50 G 16953650.00 16953650.16 16953650.33 0.1592 0.0497

Uranus 41706-01-04 19:55 G 16953867.27 16953867.33 16953867.40 0.0142 0.0123

Moon 41706-02-16 16:34 G 16953910.07 16953910.19 16953910.32 0.2675 0.1768

Earth 41706-02-16 18:29 G 16953910.13 16953910.27 16953910.40 0.2679 0.1566 *

Uranus 41706-04-02 23:17 G 16953955.39 16953955.47 16953955.56 0.0142 0.0102

Jupiter 41706-06-28 12:29 G 16954041.93 16954042.02 16954042.11 0.0519 0.0349

Uranus 41706-06-30 02:38 G 16954043.51 16954043.61 16954043.72 0.0142 0.0081

Jupiter 41706-09-25 16:34 G 16954131.08 16954131.19 16954131.30 0.0517 0.0240

Uranus 41706-09-26 06:14 G 16954131.64 16954131.76 16954131.88 0.0142 0.0060

Uranus 41706-12-23 09:36 G 16954219.78 16954219.90 16954220.03 0.0142 0.0039

Uranus 41707-03-21 13:12 G 16954307.92 16954308.05 16954308.18 0.0142 0.0018

Uranus 41707-06-17 16:34 G 16954396.06 16954396.19 16954396.32 0.0143 0.0004

Uranus 41707-09-13 19:55 G 16954484.21 16954484.33 16954484.47 0.0143 0.0026

Uranus 41707-12-10 23:31 G 16954572.36 16954572.48 16954572.61 0.0143 0.0047

Uranus 41708-03-08 02:53 G 16954660.51 16954660.62 16954660.74 0.0143 0.0069

Uranus 41708-06-04 06:29 G 16954748.67 16954748.77 16954748.88 0.0143 0.0091

Uranus 41708-08-31 10:05 G 16954836.84 16954836.92 16954837.00 0.0143 0.0112

Uranus 41708-11-27 13:41 G 16954925.03 16954925.07 16954925.11 0.0143 0.0134

Moon 41709-08-14 05:17 G 16955184.66 16955184.72 16955184.78 0.2647 0.2139

Earth 41709-08-14 05:17 G 16955184.66 16955184.72 16955184.78 0.2653 0.2188 *

Mars 41710-02-08 05:02 G 16955362.59 16955362.71 16955362.82 0.1942 0.0200

Jupiter 41712-08-20 07:12 G 16956286.71 16956286.80 16956286.90 0.0507 0.0437

Jupiter 41712-11-18 21:22 G 16956377.29 16956377.39 16956377.49 0.0508 0.0431

Mars 41714-10-22 17:46 G 16957080.10 16957080.24 16957080.38 0.1591 0.0852

Earth 41715-08-23 20:24 G 16957385.31 16957385.35 16957385.38 0.2651 0.2505

Moon 41715-08-23 20:10 G 16957385.32 16957385.34 16957385.37 0.2658 0.2562 *

Saturn 41716-08-10 11:02 G 16957737.86 16957737.96 16957738.07 0.0287 0.0162

Saturn 41716-11-06 22:19 G 16957826.30 16957826.43 16957826.56 0.0286 0.0015

Saturn 41717-02-03 09:22 G 16957914.78 16957914.89 16957915.01 0.0285 0.0131

Saturn 41717-05-02 20:24 G 16958003.32 16958003.35 16958003.38 0.0283 0.0274

Jupiter 41718-04-16 17:17 G 16958352.18 16958352.22 16958352.26 0.0520 0.0493

Jupiter 41718-07-14 21:22 G 16958441.27 16958441.39 16958441.51 0.0518 0.0097

Moon 41719-02-20 02:53 G 16958661.48 16958661.62 16958661.76 0.2679 0.1366

Earth 41719-02-20 04:48 G 16958661.57 16958661.70 16958661.82 0.2680 0.1688 *

Mars 41719-07-01 12:58 G 16958792.96 16958793.04 16958793.13 0.1943 0.1287

Moon 41722-08-16 21:50 G 16959935.31 16959935.41 16959935.51 0.2647 0.1027

Earth 41722-08-16 22:19 G 16959935.33 16959935.43 16959935.53 0.2653 0.0958 *

Neptune 41723-09-20 15:36 G 16960335.14 16960335.15 16960335.19 0.0089 0.0088

Neptune 41723-12-17 19:26 G 16960423.23 16960423.31 16960423.42 0.0089 0.0077

Venus 41724-01-31 03:50 G 16960467.59 16960467.66 16960467.73 0.3689 0.2641

Neptune 41724-03-14 23:02 G 16960511.35 16960511.46 16960511.61 0.0089 0.0066

Neptune 41724-06-11 03:07 G 16960599.48 16960599.63 16960599.79 0.0089 0.0054

Jupiter 41724-09-06 17:02 G 16960687.04 16960687.21 16960687.38 0.0508 0.0211

Neptune 41724-09-07 06:43 G 16960687.62 16960687.78 16960687.96 0.0089 0.0043

Neptune 41724-12-04 10:34 G 16960775.76 16960775.94 16960776.13 0.0089 0.0032

Neptune 41725-03-02 14:10 G 16960863.91 16960864.09 16960864.29 0.0089 0.0021

Neptune 41725-05-29 18:14 G 16960952.06 16960952.26 16960952.45 0.0089 0.0009

Neptune 41725-08-25 21:50 G 16961040.21 16961040.41 16961040.61 0.0089 0.0002

Neptune 41725-11-22 01:26 G 16961128.37 16961128.56 16961128.76 0.0089 0.0014

Neptune 41726-02-18 05:02 G 16961216.53 16961216.71 16961216.91 0.0089 0.0025

Neptune 41726-05-17 08:53 G 16961304.69 16961304.87 16961305.05 0.0089 0.0036

Neptune 41726-08-13 12:29 G 16961392.86 16961393.02 16961393.19 0.0089 0.0047

Neptune 41726-11-09 16:19 G 16961481.03 16961481.18 16961481.33 0.0089 0.0058

Neptune 41727-02-05 19:26 G 16961569.21 16961569.31 16961569.46 0.0089 0.0070

Neptune 41727-05-04 23:02 G 16961657.41 16961657.46 16961657.57 0.0089 0.0081

Venus 41729-08-15 19:26 G 16962491.21 16962491.31 16962491.41 0.3689 0.0599

Jupiter 41730-05-03 02:10 G 16962751.47 16962751.59 16962751.72 0.0518 0.0047

Pluto 41731-07-11 23:02 G 16963186.42 16963186.46 16963186.54 0.0068 0.0061

Pluto 41731-10-08 00:00 G 16963274.41 16963274.50 16963274.59 0.0069 0.0050

Pluto 41732-01-04 00:14 G 16963362.41 16963362.51 16963362.63 0.0069 0.0040

Pluto 41732-04-01 00:43 G 16963450.42 16963450.53 16963450.66 0.0069 0.0030

Pluto 41732-06-28 01:26 G 16963538.44 16963538.56 16963538.69 0.0069 0.0019

Pluto 41732-09-24 02:10 G 16963626.46 16963626.59 16963626.72 0.0069 0.0009

Saturn 41732-11-15 04:05 G 16963678.58 16963678.67 16963678.76 0.0275 0.0243

Pluto 41732-12-21 02:38 G 16963714.48 16963714.61 16963714.74 0.0069 0.0002

Saturn 41733-02-12 03:50 G 16963767.47 16963767.66 16963767.85 0.0277 0.0044

Pluto 41733-03-19 03:07 G 16963802.50 16963802.63 16963802.76 0.0069 0.0012

Saturn 41733-05-12 03:22 G 16963856.49 16963856.64 16963856.80 0.0278 0.0158

Pluto 41733-06-15 03:36 G 16963890.53 16963890.65 16963890.78 0.0069 0.0023

Pluto 41733-09-11 04:05 G 16963978.56 16963978.67 16963978.79 0.0069 0.0034

Pluto 41733-12-08 04:34 G 16964066.60 16964066.69 16964066.80 0.0070 0.0044

Pluto 41734-03-06 05:17 G 16964154.65 16964154.72 16964154.80 0.0070 0.0055

Pluto 41734-06-02 05:46 G 16964242.71 16964242.74 16964242.79 0.0070 0.0066

Venus 41735-03-01 11:02 G 16964514.86 16964514.96 16964515.05 0.3688 0.1473

Moon 41735-08-19 14:24 G 16964686.00 16964686.10 16964686.21 0.2653 0.0226

Earth 41735-08-19 15:07 G 16964686.03 16964686.13 16964686.24 0.2652 0.0290 *

Jupiter 41736-06-25 13:26 G 16964996.87 16964997.06 16964997.25 0.0507 0.0008

Mars 41740-03-18 20:53 G 16966359.33 16966359.37 16966359.40 0.1941 0.1823

Venus 41740-09-14 02:38 G 16966538.59 16966538.61 16966538.63 0.3688 0.3579

Jupiter 41742-02-19 06:58 G 16967061.67 16967061.79 16967061.90 0.0518 0.0191

Jupiter 41742-05-19 10:48 G 16967150.88 16967150.95 16967151.03 0.0517 0.0396

Mars 41744-11-30 16:34 G 16968077.04 16968077.19 16968077.34 0.1592 0.0707

Saturn 41745-12-28 13:12 G 16968469.96 16968470.05 16968470.14 0.0288 0.0211

Saturn 41746-03-27 00:14 G 16968558.39 16968558.51 16968558.64 0.0287 0.0063

Uranus 41746-05-13 05:17 G 16968605.64 16968605.72 16968605.82 0.0136 0.0120

Saturn 41746-06-23 11:31 G 16968646.85 16968646.98 16968647.10 0.0285 0.0085

Uranus 41746-08-09 13:12 G 16968693.91 16968694.05 16968694.19 0.0136 0.0091

Saturn 41746-09-19 22:19 G 16968735.36 16968735.43 16968735.51 0.0284 0.0230

Uranus 41746-11-05 20:53 G 16968782.20 16968782.37 16968782.54 0.0136 0.0063

Uranus 41747-02-02 04:19 G 16968870.50 16968870.68 16968870.87 0.0136 0.0036

Uranus 41747-05-01 12:00 G 16968958.81 16968959.00 16968959.19 0.0136 0.0008

Uranus 41747-07-28 19:26 G 16969047.12 16969047.31 16969047.50 0.0136 0.0020

Uranus 41747-10-25 02:53 G 16969135.44 16969135.62 16969135.81 0.0136 0.0047

Uranus 41748-01-21 10:19 G 16969223.77 16969223.93 16969224.10 0.0136 0.0074

Jupiter 41748-04-13 09:36 G 16969306.73 16969306.90 16969307.07 0.0508 0.0216

Uranus 41748-04-18 17:31 G 16969312.12 16969312.23 16969312.37 0.0136 0.0101

Uranus 41748-07-16 01:12 G 16969400.49 16969400.55 16969400.61 0.0135 0.0128

Moon 41748-08-21 07:41 G 16969436.73 16969436.82 16969436.90 0.2656 0.1490

Earth 41748-08-21 08:10 G 16969436.75 16969436.84 16969436.92 0.2652 0.1517 *

Mars 41749-08-09 04:48 G 16969789.59 16969789.70 16969789.81 0.1942 0.0337

Moon 41752-02-17 23:46 G 16970712.34 16970712.49 16970712.64 0.2675 0.1165

Earth 41752-02-18 01:26 G 16970712.41 16970712.56 16970712.72 0.2679 0.0967 *

Jupiter 41753-12-08 11:46 G 16971371.90 16971371.99 16971372.09 0.0519 0.0334

Jupiter 41754-03-07 15:36 G 16971461.05 16971461.15 16971461.26 0.0517 0.0254

Mars 41754-04-22 18:29 G 16971507.11 16971507.27 16971507.42 0.1592 0.0643

Moon 41755-08-15 09:50 G 16971986.84 16971986.91 16971986.98 0.2647 0.2004

Earth 41755-08-15 10:05 G 16971986.84 16971986.92 16971986.99 0.2653 0.1940 *

Venus 41755-10-10 05:17 G 16972042.60 16972042.72 16972042.84 0.3682 0.2325

Mars 41758-12-30 13:12 G 16973219.96 16973220.05 16973220.14 0.1943 0.1100

Jupiter 41760-01-31 06:00 G 16973616.66 16973616.75 16973616.86 0.0507 0.0425

Jupiter 41760-04-30 20:24 G 16973707.26 16973707.35 16973707.44 0.0509 0.0446

Saturn 41762-07-02 00:43 G 16974499.36 16974499.53 16974499.71 0.0276 0.0111

Saturn 41762-09-29 00:14 G 16974588.34 16974588.51 16974588.70 0.0277 0.0090

Moon 41765-02-20 10:05 G 16975463.82 16975463.92 16975464.02 0.2681 0.2111

Earth 41765-02-20 11:46 G 16975463.91 16975463.99 16975464.08 0.2680 0.2287 *

Jupiter 41765-09-26 16:19 G 16975682.14 16975682.18 16975682.22 0.0519 0.0483

Jupiter 41765-12-24 20:10 G 16975771.22 16975771.34 16975771.47 0.0517 0.0107

Moon 41768-08-17 02:24 G 16976737.50 16976737.60 16976737.71 0.2649 0.0737

Earth 41768-08-17 02:53 G 16976737.52 16976737.62 16976737.73 0.2653 0.0708 *

Jupiter 41772-02-17 16:48 G 16978017.03 16978017.20 16978017.37 0.0508 0.0234

Saturn 41775-05-17 14:38 G 16979202.07 16979202.11 16979202.17 0.0288 0.0264

Saturn 41775-08-14 01:55 G 16979290.47 16979290.58 16979290.70 0.0287 0.0114

Saturn 41775-11-10 13:12 G 16979378.92 16979379.05 16979379.18 0.0286 0.0034

Saturn 41776-02-07 00:00 G 16979467.41 16979467.50 16979467.61 0.0285 0.0180

Jupiter 41777-10-13 01:12 G 16980081.42 16980081.55 16980081.67 0.0518 0.0042

Venus 41780-09-06 01:12 G 16981140.47 16981140.55 16981140.64 0.3689 0.1906

Moon 41781-08-19 19:12 G 16981488.19 16981488.30 16981488.41 0.2653 0.0422

Earth 41781-08-19 19:55 G 16981488.22 16981488.33 16981488.43 0.2652 0.0531 *

Jupiter 41783-12-06 12:43 G 16982326.84 16982327.03 16982327.22 0.0507 0.0017

Mars 41784-05-31 17:17 G 16982504.08 16982504.22 16982504.36 0.1592 0.0924

Venus 41786-03-22 16:48 G 16983164.10 16983164.20 16983164.30 0.3689 0.0169

Mars 41789-02-07 04:48 G 16984216.59 16984216.70 16984216.81 0.1942 0.0520

Jupiter 41789-08-01 06:00 G 16984391.63 16984391.75 16984391.87 0.0519 0.0179

Uranus 41789-10-29 00:00 G 16984480.47 16984480.50 16984480.52 0.0142 0.0138

Jupiter 41789-10-29 10:05 G 16984480.85 16984480.92 16984481.00 0.0517 0.0410

Uranus 41790-01-25 03:07 G 16984568.57 16984568.63 16984568.71 0.0142 0.0118

Uranus 41790-04-23 06:29 G 16984656.69 16984656.77 16984656.88 0.0142 0.0097

Uranus 41790-07-20 10:05 G 16984744.81 16984744.92 16984745.03 0.0142 0.0076

Uranus 41790-10-16 13:26 G 16984832.94 16984833.06 16984833.19 0.0142 0.0055

Uranus 41791-01-12 17:02 G 16984921.08 16984921.21 16984921.34 0.0142 0.0034

Uranus 41791-04-10 20:24 G 16985009.22 16985009.35 16985009.48 0.0142 0.0012

Uranus 41791-07-08 00:00 G 16985097.37 16985097.50 16985097.63 0.0142 0.0010

Uranus 41791-10-04 03:22 G 16985185.51 16985185.64 16985185.77 0.0143 0.0031

Venus 41791-10-06 08:24 G 16985187.77 16985187.85 16985187.93 0.3688 0.2235

Saturn 41791-11-18 21:07 G 16985231.24 16985231.38 16985231.53 0.0275 0.0184

Uranus 41791-12-31 06:43 G 16985273.66 16985273.78 16985273.91 0.0143 0.0052

Saturn 41792-02-15 20:53 G 16985320.18 16985320.37 16985320.56 0.0277 0.0016

Uranus 41792-03-28 10:19 G 16985361.82 16985361.93 16985362.04 0.0143 0.0074

Saturn 41792-05-14 20:24 G 16985409.24 16985409.35 16985409.47 0.0278 0.0217

Uranus 41792-06-24 13:41 G 16985449.98 16985450.07 16985450.17 0.0143 0.0096

Uranus 41792-09-20 17:02 G 16985538.15 16985538.21 16985538.30 0.0143 0.0118

Uranus 41792-12-17 20:53 G 16985626.35 16985626.37 16985626.40 0.0143 0.0139

Mars 41793-10-21 18:58 G 16985934.13 16985934.29 16985934.46 0.1591 0.0431

Moon 41794-08-22 12:29 G 16986238.94 16986239.02 16986239.10 0.2657 0.1703

Earth 41794-08-22 12:43 G 16986238.95 16986239.03 16986239.11 0.2652 0.1764 *

Jupiter 41795-09-24 09:07 G 16986636.70 16986636.88 16986637.05 0.0507 0.0194

Moon 41798-02-18 06:43 G 16987514.62 16987514.78 16987514.95 0.2676 0.0631

Earth 41798-02-18 08:38 G 16987514.69 16987514.86 16987515.02 0.2679 0.0374 *

Mars 41798-06-30 12:58 G 16987646.94 16987647.04 16987647.14 0.1942 0.0960

Jupiter 41801-05-21 10:48 G 16988701.86 16988701.95 16988702.05 0.0519 0.0324

Moon 41801-08-16 14:24 G 16988789.02 16988789.10 16988789.19 0.2646 0.1659

Earth 41801-08-16 14:38 G 16988789.03 16988789.11 16988789.19 0.2653 0.1696 *

Jupiter 41801-08-18 14:53 G 16988791.01 16988791.12 16988791.23 0.0517 0.0264

Neptune 41804-01-14 16:05 G 16989670.15 16989670.17 16989670.22 0.0089 0.0085

Neptune 41804-04-11 17:17 G 16989758.17 16989758.22 16989758.30 0.0089 0.0078

Neptune 41804-07-08 18:43 G 16989846.21 16989846.28 16989846.37 0.0089 0.0070

Neptune 41804-10-04 19:55 G 16989934.25 16989934.33 16989934.43 0.0089 0.0063

Neptune 41804-12-31 21:22 G 16990022.29 16990022.39 16990022.50 0.0089 0.0055

Saturn 41805-01-01 03:36 G 16990022.55 16990022.65 16990022.76 0.0288 0.0166

Neptune 41805-03-29 22:34 G 16990110.34 16990110.44 16990110.56 0.0089 0.0048

Saturn 41805-03-30 14:53 G 16990110.99 16990111.12 16990111.25 0.0287 0.0018

Neptune 41805-06-26 00:00 G 16990198.38 16990198.50 16990198.61 0.0089 0.0040

Saturn 41805-06-27 01:55 G 16990199.47 16990199.58 16990199.70 0.0285 0.0129

Neptune 41805-09-22 01:12 G 16990286.43 16990286.55 16990286.67 0.0089 0.0033

Saturn 41805-09-23 12:58 G 16990288.01 16990288.04 16990288.07 0.0284 0.0274

Neptune 41805-12-19 02:24 G 16990374.48 16990374.60 16990374.73 0.0089 0.0025

Neptune 41806-03-17 03:50 G 16990462.53 16990462.66 16990462.79 0.0089 0.0018

Neptune 41806-06-13 05:02 G 16990550.58 16990550.71 16990550.84 0.0089 0.0010

Neptune 41806-09-09 06:14 G 16990638.63 16990638.76 16990638.89 0.0089 0.0003

Venus 41806-10-31 22:48 G 16990691.32 16990691.45 16990691.58 0.3682 0.2052

Neptune 41806-12-06 07:26 G 16990726.68 16990726.81 16990726.95 0.0089 0.0006

Neptune 41807-03-04 08:53 G 16990814.74 16990814.87 16990815.00 0.0089 0.0012

Neptune 41807-05-31 10:05 G 16990902.79 16990902.92 16990903.05 0.0089 0.0020

Jupiter 41807-07-14 04:48 G 16990946.60 16990946.70 16990946.81 0.0507 0.0413

Neptune 41807-08-27 11:17 G 16990990.85 16990990.97 16990991.10 0.0089 0.0027

Jupiter 41807-10-12 19:12 G 16991037.22 16991037.30 16991037.38 0.0509 0.0458

Neptune 41807-11-23 12:29 G 16991078.91 16991079.02 16991079.15 0.0089 0.0035

Neptune 41808-02-19 13:41 G 16991166.97 16991167.07 16991167.20 0.0089 0.0043

Neptune 41808-05-17 15:07 G 16991255.03 16991255.13 16991255.24 0.0089 0.0050

Neptune 41808-08-13 16:19 G 16991343.09 16991343.18 16991343.29 0.0089 0.0057

Neptune 41808-11-09 17:46 G 16991431.15 16991431.24 16991431.33 0.0089 0.0065

Neptune 41809-02-05 18:43 G 16991519.22 16991519.28 16991519.37 0.0089 0.0073

Neptune 41809-05-04 20:10 G 16991607.29 16991607.34 16991607.40 0.0089 0.0080

Neptune 41809-07-31 21:22 G 16991695.38 16991695.39 16991695.42 0.0089 0.0087

Moon 41811-02-22 17:02 G 16992266.19 16992266.21 16992266.23 0.2683 0.2641

Jupiter 41813-03-09 15:50 G 16993012.10 16993012.16 16993012.21 0.0519 0.0464

Jupiter 41813-06-06 19:41 G 16993101.20 16993101.32 16993101.45 0.0517 0.0123

Moon 41814-08-19 07:12 G 16993539.69 16993539.80 16993539.90 0.2650 0.0596

Earth 41814-08-19 07:41 G 16993539.71 16993539.82 16993539.93 0.2653 0.0456 *

Pluto 41817-11-11 00:00 G 16994719.42 16994719.50 16994719.60 0.0075 0.0066

Pluto 41818-02-07 02:38 G 16994807.46 16994807.61 16994807.77 0.0075 0.0046

Pluto 41818-05-06 05:17 G 16994895.54 16994895.72 16994895.91 0.0075 0.0026

Pluto 41818-08-02 07:55 G 16994983.63 16994983.83 16994984.03 0.0075 0.0007

Pluto 41818-10-29 10:19 G 16995071.74 16995071.93 16995072.13 0.0075 0.0013

Pluto 41819-01-25 12:58 G 16995159.87 16995160.04 16995160.22 0.0075 0.0033

Pluto 41819-04-23 15:07 G 16995248.01 16995248.13 16995248.29 0.0074 0.0053

Pluto 41819-07-20 17:46 G 16995336.20 16995336.24 16995336.30 0.0074 0.0072

Jupiter 41819-07-31 15:50 G 16995347.00 16995347.16 16995347.33 0.0509 0.0251

Saturn 41821-04-07 18:00 G 16995963.18 16995963.25 16995963.33 0.0274 0.0252

Saturn 41821-07-05 17:31 G 16996052.05 16996052.23 16996052.42 0.0276 0.0054

Saturn 41821-10-02 17:17 G 16996141.05 16996141.22 16996141.38 0.0277 0.0146

Mars 41823-12-01 18:00 G 16996931.14 16996931.25 16996931.37 0.1592 0.1142

Jupiter 41825-03-26 00:14 G 16997411.39 16997411.51 16997411.64 0.0518 0.0030

Moon 41827-08-22 00:00 G 16998290.39 16998290.50 16998290.60 0.2653 0.0714

Earth 41827-08-22 00:29 G 16998290.42 16998290.52 16998290.63 0.2652 0.0786 *

Mars 41828-08-09 04:48 G 16998643.60 16998643.70 16998643.81 0.1942 0.0683

Uranus 41830-06-03 12:14 G 16999306.92 16999307.01 16999307.13 0.0136 0.0114

Uranus 41830-08-30 19:55 G 16999395.19 16999395.33 16999395.49 0.0136 0.0086

Uranus 41830-11-27 03:36 G 16999483.48 16999483.65 16999483.84 0.0136 0.0058

Uranus 41831-02-23 11:31 G 16999571.79 16999571.98 16999572.17 0.0136 0.0029

Jupiter 41831-05-19 12:29 G 16999656.83 16999657.02 16999657.21 0.0508 0.0041

Uranus 41831-05-22 18:58 G 16999660.10 16999660.29 16999660.49 0.0136 0.0003

Uranus 41831-08-19 02:38 G 16999748.42 16999748.61 16999748.80 0.0136 0.0026

Venus 41831-09-29 07:12 G 16999789.75 16999789.80 16999789.85 0.3690 0.3201

Uranus 41831-11-15 09:50 G 16999836.74 16999836.91 16999837.10 0.0136 0.0054

Uranus 41832-02-11 17:17 G 16999925.08 16999925.22 16999925.39 0.0136 0.0081

Uranus 41832-05-10 00:43 G 17000013.43 17000013.53 17000013.66 0.0136 0.0108

Uranus 41832-08-06 08:10 G 17000101.83 17000101.84 17000101.87 0.0136 0.0135

Mars 41833-04-22 19:55 G 17000361.16 17000361.33 17000361.50 0.1592 0.0205

Saturn 41834-05-21 04:48 G 17000754.63 17000754.70 17000754.79 0.0288 0.0224

Moon 41834-08-15 02:38 G 17000840.60 17000840.61 17000840.62 0.2648 0.2612

Saturn 41834-08-17 16:05 G 17000843.05 17000843.17 17000843.30 0.0287 0.0074

Saturn 41834-11-14 03:22 G 17000931.51 17000931.64 17000931.76 0.0286 0.0074

Saturn 41835-02-10 14:24 G 17001020.02 17001020.10 17001020.18 0.0285 0.0220

Jupiter 41837-01-12 05:02 G 17001721.60 17001721.71 17001721.83 0.0518 0.0170

Jupiter 41837-04-11 09:07 G 17001810.81 17001810.88 17001810.95 0.0517 0.0418

Venus 41837-04-13 22:48 G 17001813.35 17001813.45 17001813.54 0.3689 0.1165

Mars 41837-12-30 12:58 G 17002073.94 17002074.04 17002074.15 0.1943 0.0789

Moon 41840-08-23 17:17 G 17003041.15 17003041.22 17003041.29 0.2658 0.1975

Earth 41840-08-23 17:31 G 17003041.16 17003041.23 17003041.30 0.2651 0.2010 *

Mars 41842-09-12 21:36 G 17003791.37 17003791.40 17003791.43 0.1591 0.1563

Venus 41842-10-28 14:24 G 17003837.00 17003837.10 17003837.19 0.3688 0.0918

Jupiter 41843-03-07 08:24 G 17003966.68 17003966.85 17003967.03 0.0507 0.0175

Moon 41844-02-20 13:41 G 17004316.91 17004317.07 17004317.24 0.2678 0.0072

Earth 41844-02-20 15:36 G 17004316.98 17004317.15 17004317.31 0.2679 0.0216 *

Moon 41847-08-17 19:12 G 17005591.21 17005591.30 17005591.39 0.2647 0.1527

Earth 41847-08-17 19:26 G 17005591.22 17005591.31 17005591.40 0.2653 0.1444 *

Venus 41848-05-13 06:00 G 17005860.69 17005860.75 17005860.81 0.3688 0.2999

Jupiter 41848-10-31 10:05 G 17006031.82 17006031.92 17006032.02 0.0519 0.0310

Jupiter 41849-01-28 14:10 G 17006120.98 17006121.09 17006121.19 0.0517 0.0279

Saturn 41850-11-22 13:41 G 17006783.90 17006784.07 17006784.24 0.0275 0.0130

Saturn 41851-02-19 13:12 G 17006872.87 17006873.05 17006873.24 0.0276 0.0070

Saturn 41851-05-19 12:43 G 17006962.00 17006962.03 17006962.08 0.0278 0.0271

Jupiter 41854-12-24 04:48 G 17008276.58 17008276.70 17008276.82 0.0507 0.0385

Jupiter 41855-03-24 18:58 G 17008367.24 17008367.29 17008367.35 0.0509 0.0484

Moon 41860-08-19 11:46 G 17010341.88 17010341.99 17010342.10 0.2651 0.0247

Earth 41860-08-19 12:29 G 17010341.91 17010342.02 17010342.12 0.2652 0.0236 *

Jupiter 41860-08-19 14:53 G 17010342.07 17010342.12 17010342.18 0.0519 0.0453 *

Jupiter 41860-11-16 18:58 G 17010431.17 17010431.29 17010431.41 0.0517 0.0136

Mars 41863-06-01 18:43 G 17011358.19 17011358.28 17011358.37 0.1592 0.1350

Venus 41863-06-08 00:43 G 17011364.38 17011364.53 17011364.69 0.3682 0.0126

Saturn 41863-10-08 06:14 G 17011486.74 17011486.76 17011486.80 0.0289 0.0279

Saturn 41864-01-04 17:31 G 17011575.12 17011575.23 17011575.35 0.0288 0.0129

Saturn 41864-04-02 04:48 G 17011663.57 17011663.70 17011663.83 0.0287 0.0021

Saturn 41864-06-29 15:50 G 17011752.06 17011752.16 17011752.27 0.0285 0.0168

Jupiter 41867-01-10 14:53 G 17012676.96 17012677.12 17012677.28 0.0509 0.0264

Mars 41868-02-08 04:48 G 17013070.59 17013070.70 17013070.80 0.1942 0.0836

Jupiter 41872-09-05 00:00 G 17014741.37 17014741.50 17014741.62 0.0517 0.0013

Mars 41872-10-21 20:38 G 17014788.19 17014788.36 17014788.53 0.1592 0.0030

Moon 41873-08-22 04:48 G 17015092.60 17015092.70 17015092.80 0.2654 0.0906

Earth 41873-08-22 05:17 G 17015092.62 17015092.72 17015092.82 0.2652 0.1022 *

Uranus 41873-11-19 07:41 G 17015181.77 17015181.82 17015181.87 0.0142 0.0131

Uranus 41874-02-15 11:02 G 17015269.88 17015269.96 17015270.04 0.0142 0.0110

Uranus 41874-05-14 14:24 G 17015358.00 17015358.10 17015358.20 0.0142 0.0089

Uranus 41874-08-10 17:46 G 17015446.13 17015446.24 17015446.36 0.0142 0.0068

Uranus 41874-11-06 21:22 G 17015534.26 17015534.39 17015534.51 0.0142 0.0047

Uranus 41875-02-03 00:43 G 17015622.40 17015622.53 17015622.66 0.0142 0.0026

Uranus 41875-05-02 04:05 G 17015710.54 17015710.67 17015710.80 0.0142 0.0006

Uranus 41875-07-29 07:41 G 17015798.69 17015798.82 17015798.95 0.0142 0.0017

Uranus 41875-10-25 11:02 G 17015886.84 17015886.96 17015887.09 0.0142 0.0038

Uranus 41876-01-21 14:24 G 17015974.99 17015975.10 17015975.23 0.0143 0.0060

Uranus 41876-04-18 18:00 G 17016063.14 17016063.25 17016063.36 0.0143 0.0081

Uranus 41876-07-15 21:36 G 17016151.31 17016151.40 17016151.49 0.0143 0.0103

Uranus 41876-10-12 00:58 G 17016239.48 17016239.54 17016239.61 0.0143 0.0125

Moon 41877-02-17 10:48 G 17016367.89 17016367.95 17016368.01 0.2673 0.2488

Earth 41877-02-17 12:14 G 17016367.95 17016368.01 17016368.08 0.2679 0.2442 *

Mars 41877-06-30 12:58 G 17016500.94 17016501.04 17016501.15 0.1943 0.0616

Jupiter 41878-10-29 11:31 G 17016986.80 17016986.98 17016987.17 0.0508 0.0057

Saturn 41880-04-10 10:34 G 17017515.81 17017515.94 17017516.07 0.0274 0.0197

Saturn 41880-07-08 10:05 G 17017604.73 17017604.92 17017605.11 0.0276 0.0002

Moon 41880-08-15 07:12 G 17017642.76 17017642.80 17017642.84 0.2647 0.2436

Earth 41880-08-15 07:12 G 17017642.76 17017642.80 17017642.84 0.2654 0.2434 *

Saturn 41880-10-05 09:22 G 17017693.77 17017693.89 17017694.03 0.0277 0.0201

Mars 41882-03-13 22:19 G 17018218.34 17018218.43 17018218.52 0.1591 0.1343

Jupiter 41884-06-24 04:34 G 17019051.57 17019051.69 17019051.81 0.0518 0.0154

Jupiter 41884-09-21 08:24 G 17019140.79 17019140.85 17019140.92 0.0516 0.0432

Moon 41886-08-24 22:05 G 17019843.36 17019843.42 17019843.47 0.2658 0.2257

Earth 41886-08-24 22:19 G 17019843.37 17019843.43 17019843.48 0.2651 0.2258 *

Venus 41888-05-05 04:34 G 17020462.62 17020462.69 17020462.77 0.3689 0.2466

Neptune 41888-06-17 12:43 G 17020506.01 17020506.03 17020506.10 0.0089 0.0087

Neptune 41888-09-13 16:48 G 17020594.11 17020594.20 17020594.31 0.0089 0.0075

Neptune 41888-12-10 20:24 G 17020682.23 17020682.35 17020682.50 0.0089 0.0064

Neptune 41889-03-09 00:14 G 17020770.36 17020770.51 17020770.68 0.0089 0.0053

Neptune 41889-06-05 03:50 G 17020858.50 17020858.66 17020858.85 0.0089 0.0042

Neptune 41889-09-01 07:55 G 17020946.65 17020946.83 17020947.02 0.0089 0.0030

Neptune 41889-11-28 11:31 G 17021034.79 17021034.98 17021035.18 0.0089 0.0019

Moon 41890-02-20 20:53 G 17021119.20 17021119.37 17021119.53 0.2680 0.0474

Earth 41890-02-20 22:48 G 17021119.29 17021119.45 17021119.60 0.2679 0.0821 *

Neptune 41890-02-24 15:22 G 17021122.95 17021123.14 17021123.34 0.0089 0.0007

Neptune 41890-05-23 19:12 G 17021211.10 17021211.30 17021211.49 0.0089 0.0004

Jupiter 41890-08-17 08:10 G 17021296.66 17021296.84 17021297.02 0.0508 0.0151

Neptune 41890-08-19 22:48 G 17021299.26 17021299.45 17021299.64 0.0089 0.0015

Neptune 41890-11-16 02:10 G 17021387.42 17021387.59 17021387.79 0.0089 0.0027

Neptune 41891-02-12 06:00 G 17021475.58 17021475.75 17021475.94 0.0089 0.0038

Neptune 41891-05-11 09:36 G 17021563.75 17021563.90 17021564.08 0.0089 0.0049

Neptune 41891-08-07 13:12 G 17021651.92 17021652.05 17021652.21 0.0089 0.0060

Neptune 41891-11-03 17:02 G 17021740.10 17021740.21 17021740.34 0.0089 0.0071

Neptune 41892-01-30 20:38 G 17021828.30 17021828.36 17021828.45 0.0089 0.0082

Saturn 41893-05-23 18:43 G 17022307.19 17022307.28 17022307.38 0.0289 0.0187

Moon 41893-08-17 23:46 G 17022393.40 17022393.49 17022393.59 0.2648 0.1206

Earth 41893-08-18 00:14 G 17022393.41 17022393.51 17022393.60 0.2653 0.1205 *

Saturn 41893-08-20 06:00 G 17022395.63 17022395.75 17022395.88 0.0287 0.0038

Saturn 41893-11-16 17:17 G 17022484.10 17022484.22 17022484.34 0.0286 0.0112

Venus 41893-11-18 20:10 G 17022486.24 17022486.34 17022486.44 0.3689 0.0420

Saturn 41894-02-13 04:19 G 17022572.63 17022572.68 17022572.74 0.0285 0.0257

Jupiter 41896-04-12 09:07 G 17023361.78 17023361.88 17023361.99 0.0519 0.0299

Jupiter 41896-07-10 13:12 G 17023450.95 17023451.05 17023451.15 0.0517 0.0290

Venus 41899-06-04 11:46 G 17024509.90 17024509.99 17024510.08 0.3689 0.1654

Jupiter 41902-06-06 04:05 G 17025606.55 17025606.67 17025606.81 0.0507 0.0366

Jupiter 41902-09-04 18:14 G 17025697.25 17025697.26 17025697.29 0.0509 0.0504

Mars 41902-12-01 19:26 G 17025785.29 17025785.31 17025785.33 0.1592 0.1573

Moon 41906-08-21 16:19 G 17027144.08 17027144.18 17027144.29 0.2651 0.0145

Earth 41906-08-21 17:02 G 17027144.10 17027144.21 17027144.32 0.2652 0.0042 *

Mars 41907-08-10 04:48 G 17027497.60 17027497.70 17027497.79 0.1942 0.1010

Jupiter 41908-01-31 14:10 G 17027672.03 17027672.09 17027672.15 0.0519 0.0440

Jupiter 41908-04-29 18:14 G 17027761.14 17027761.26 17027761.38 0.0518 0.0150

Saturn 41909-08-29 06:43 G 17028247.77 17028247.78 17028247.82 0.0274 0.0271

Saturn 41909-11-26 06:29 G 17028336.58 17028336.77 17028336.95 0.0275 0.0074

Saturn 41910-02-23 06:00 G 17028425.58 17028425.75 17028425.92 0.0276 0.0125

Mars 41912-04-22 21:07 G 17029215.21 17029215.38 17029215.55 0.1592 0.0221

Uranus 41914-03-28 12:00 G 17029919.97 17029920.00 17029920.05 0.0136 0.0134

Jupiter 41914-06-23 14:53 G 17030006.97 17030007.12 17030007.27 0.0508 0.0293

Uranus 41914-06-24 19:41 G 17030008.21 17030008.32 17030008.45 0.0136 0.0106

Uranus 41914-09-21 03:22 G 17030096.49 17030096.64 17030096.81 0.0136 0.0078

Uranus 41914-12-18 11:02 G 17030184.79 17030184.96 17030185.15 0.0136 0.0050

Uranus 41915-03-16 18:58 G 17030273.10 17030273.29 17030273.48 0.0136 0.0021

Uranus 41915-06-13 02:24 G 17030361.41 17030361.60 17030361.80 0.0136 0.0007

Uranus 41915-09-09 10:05 G 17030449.73 17030449.92 17030450.11 0.0136 0.0034

Uranus 41915-12-06 17:17 G 17030538.06 17030538.22 17030538.40 0.0136 0.0062

Uranus 41916-03-04 00:58 G 17030626.40 17030626.54 17030626.69 0.0136 0.0089

Uranus 41916-05-31 08:24 G 17030714.75 17030714.85 17030714.95 0.0136 0.0116

Mars 41916-12-30 12:58 G 17030927.93 17030928.04 17030928.15 0.1942 0.0467

Moon 41919-08-24 09:36 G 17031894.80 17031894.90 17031894.99 0.2656 0.1260

Earth 41919-08-24 10:05 G 17031894.82 17031894.92 17031895.01 0.2652 0.1271 *

Venus 41920-01-14 02:38 G 17032037.49 17032037.61 17032037.73 0.3682 0.2256

Jupiter 41920-02-16 23:02 G 17032071.34 17032071.46 17032071.59 0.0517 0.0018

Mars 41921-09-12 23:02 G 17032645.34 17032645.46 17032645.58 0.1591 0.1134

Saturn 41922-10-11 20:10 G 17033039.27 17033039.34 17033039.41 0.0289 0.0244

Saturn 41923-01-08 07:26 G 17033127.69 17033127.81 17033127.93 0.0288 0.0093

Moon 41923-02-19 17:46 G 17033170.14 17033170.24 17033170.34 0.2675 0.2136

Earth 41923-02-19 19:12 G 17033170.19 17033170.30 17033170.42 0.2679 0.1853 *

Saturn 41923-04-06 18:43 G 17033216.15 17033216.28 17033216.40 0.0287 0.0057

Saturn 41923-07-04 05:46 G 17033304.65 17033304.74 17033304.83 0.0286 0.0204

Jupiter 41926-04-11 10:19 G 17034316.75 17034316.93 17034317.12 0.0508 0.0069

Mars 41926-05-22 21:07 G 17034358.37 17034358.38 17034358.39 0.1943 0.1924

Moon 41926-08-17 12:00 G 17034444.94 17034445.00 17034445.06 0.2647 0.2160

Earth 41926-08-17 12:00 G 17034444.94 17034445.00 17034445.06 0.2654 0.2186 *

Jupiter 41931-12-06 04:05 G 17036381.55 17036381.67 17036381.79 0.0518 0.0132

Jupiter 41932-03-04 08:10 G 17036470.78 17036470.84 17036470.89 0.0516 0.0453

Moon 41932-08-26 02:53 G 17036645.58 17036645.62 17036645.65 0.2658 0.2457

Earth 41932-08-26 02:53 G 17036645.59 17036645.62 17036645.66 0.2651 0.2502 *

Moon 41936-02-23 03:36 G 17037921.51 17037921.65 17037921.80 0.2680 0.1286

Earth 41936-02-23 05:46 G 17037921.60 17037921.74 17037921.88 0.2679 0.1409 *

Jupiter 41938-01-28 06:58 G 17038626.61 17038626.79 17038626.98 0.0508 0.0139

Saturn 41939-04-15 03:22 G 17039068.48 17039068.64 17039068.81 0.0274 0.0141

Saturn 41939-07-13 02:53 G 17039157.43 17039157.62 17039157.81 0.0275 0.0057

Moon 41939-08-20 04:19 G 17039195.58 17039195.68 17039195.78 0.2649 0.1045

Earth 41939-08-20 04:48 G 17039195.60 17039195.70 17039195.80 0.2653 0.0954 *

Saturn 41939-10-10 02:24 G 17039246.53 17039246.60 17039246.67 0.0277 0.0257

Jupiter 41943-09-24 08:38 G 17040691.76 17040691.86 17040691.97 0.0518 0.0282

Jupiter 41943-12-22 12:29 G 17040780.92 17040781.02 17040781.13 0.0516 0.0306

Venus 41944-12-11 01:55 G 17041135.49 17041135.58 17041135.67 0.3689 0.1734

Mars 41947-02-08 04:48 G 17041924.61 17041924.70 17041924.79 0.1942 0.1179

Jupiter 41949-11-16 03:36 G 17042936.52 17042936.65 17042936.79 0.0507 0.0345

Venus 41950-06-26 17:31 G 17043159.13 17043159.23 17043159.33 0.3689 0.0321

Mars 41951-10-22 22:05 G 17043642.25 17043642.42 17043642.58 0.1592 0.0444

Saturn 41952-05-27 08:38 G 17043859.75 17043859.86 17043859.97 0.0289 0.0151

Moon 41952-08-21 21:07 G 17043946.27 17043946.38 17043946.49 0.2651 0.0244

Earth 41952-08-21 21:50 G 17043946.30 17043946.41 17043946.51 0.2652 0.0288 *

Saturn 41952-08-23 19:55 G 17043948.20 17043948.33 17043948.46 0.0287 0.0003

Saturn 41952-11-20 06:58 G 17044036.68 17044036.79 17044036.90 0.0286 0.0148

Jupiter 41955-07-13 13:26 G 17045001.99 17045002.06 17045002.13 0.0519 0.0427

Jupiter 41955-10-10 17:17 G 17045091.10 17045091.22 17045091.34 0.0517 0.0162

Venus 41956-01-10 09:07 G 17045182.81 17045182.88 17045182.96 0.3688 0.2414

Mars 41956-06-30 12:43 G 17045354.92 17045355.03 17045355.15 0.1942 0.0313

Uranus 41957-12-10 15:36 G 17045883.09 17045883.15 17045883.22 0.0142 0.0122

Uranus 41958-03-08 18:58 G 17045971.21 17045971.29 17045971.39 0.0142 0.0101

Uranus 41958-06-04 22:19 G 17046059.33 17046059.43 17046059.54 0.0142 0.0081

Uranus 41958-09-01 01:41 G 17046147.46 17046147.57 17046147.70 0.0142 0.0060

Uranus 41958-11-28 05:17 G 17046235.59 17046235.72 17046235.85 0.0142 0.0039

Uranus 41959-02-24 08:38 G 17046323.73 17046323.86 17046323.99 0.0142 0.0018

Uranus 41959-05-23 12:00 G 17046411.87 17046412.00 17046412.14 0.0142 0.0006

Uranus 41959-08-19 15:36 G 17046500.02 17046500.15 17046500.28 0.0142 0.0025

Uranus 41959-11-15 18:58 G 17046588.17 17046588.29 17046588.42 0.0142 0.0047

Uranus 41960-02-11 22:19 G 17046676.32 17046676.43 17046676.55 0.0143 0.0069

Uranus 41960-05-10 01:55 G 17046764.48 17046764.58 17046764.68 0.0143 0.0090

Uranus 41960-08-06 05:17 G 17046852.65 17046852.72 17046852.81 0.0143 0.0112

Uranus 41960-11-02 08:53 G 17046940.83 17046940.87 17046940.92 0.0143 0.0133

Mars 41961-03-13 23:46 G 17047072.35 17047072.49 17047072.63 0.1591 0.0915

Jupiter 41961-12-03 14:10 G 17047336.94 17047337.09 17047337.24 0.0508 0.0311

Moon 41965-08-24 14:10 G 17048697.00 17048697.09 17048697.18 0.2657 0.1400

Earth 41965-08-24 14:38 G 17048697.02 17048697.11 17048697.20 0.2652 0.1514 *

Mars 41965-11-20 21:07 G 17048785.33 17048785.38 17048785.43 0.1942 0.1748

Jupiter 41967-07-29 22:19 G 17049401.30 17049401.43 17049401.55 0.0518 0.0022

Saturn 41968-09-01 00:00 G 17049800.39 17049800.50 17049800.63 0.0274 0.0212

Neptune 41968-10-11 15:22 G 17049841.11 17049841.14 17049841.19 0.0089 0.0084

Saturn 41968-11-28 23:31 G 17049889.29 17049889.48 17049889.67 0.0275 0.0015

Neptune 41969-01-07 16:34 G 17049929.14 17049929.19 17049929.26 0.0089 0.0077

Moon 41969-02-20 00:43 G 17049972.39 17049972.53 17049972.67 0.2677 0.1400

Earth 41969-02-20 02:24 G 17049972.46 17049972.60 17049972.75 0.2679 0.1257 *

Saturn 41969-02-25 22:48 G 17049978.32 17049978.45 17049978.60 0.0276 0.0185

Neptune 41969-04-05 18:00 G 17050017.17 17050017.25 17050017.33 0.0089 0.0069

Neptune 41969-07-02 19:12 G 17050105.21 17050105.30 17050105.40 0.0089 0.0062

Neptune 41969-09-28 20:24 G 17050193.25 17050193.35 17050193.46 0.0089 0.0054

Neptune 41969-12-25 21:50 G 17050281.30 17050281.41 17050281.52 0.0089 0.0047

Neptune 41970-03-23 23:02 G 17050369.35 17050369.46 17050369.58 0.0089 0.0039

Neptune 41970-06-20 00:14 G 17050457.39 17050457.51 17050457.64 0.0089 0.0032

Neptune 41970-09-16 01:26 G 17050545.44 17050545.56 17050545.69 0.0089 0.0025

Neptune 41970-12-13 02:53 G 17050633.49 17050633.62 17050633.75 0.0089 0.0017

Venus 41971-02-03 19:55 G 17050686.21 17050686.33 17050686.45 0.3681 0.2180

Neptune 41971-03-11 04:05 G 17050721.54 17050721.67 17050721.81 0.0089 0.0010

Neptune 41971-06-07 05:31 G 17050809.60 17050809.73 17050809.86 0.0089 0.0002

Neptune 41971-09-03 06:43 G 17050897.65 17050897.78 17050897.91 0.0089 0.0006

Neptune 41971-11-30 07:55 G 17050985.70 17050985.83 17050985.96 0.0089 0.0013

Neptune 41972-02-26 09:07 G 17051073.76 17051073.88 17051074.01 0.0089 0.0021

Neptune 41972-05-24 10:34 G 17051161.82 17051161.94 17051162.06 0.0089 0.0028

Moon 41972-08-17 16:34 G 17051247.12 17051247.19 17051247.26 0.2647 0.1930

Earth 41972-08-17 16:34 G 17051247.12 17051247.19 17051247.26 0.2654 0.1940 *

Neptune 41972-08-20 11:46 G 17051249.87 17051249.99 17051250.11 0.0089 0.0036

Neptune 41972-11-16 13:12 G 17051337.93 17051338.05 17051338.16 0.0089 0.0043

Neptune 41973-02-12 14:10 G 17051425.99 17051426.09 17051426.21 0.0089 0.0051

Neptune 41973-05-11 15:36 G 17051514.05 17051514.15 17051514.25 0.0089 0.0058

Neptune 41973-08-07 16:48 G 17051602.12 17051602.20 17051602.29 0.0089 0.0066

Jupiter 41973-09-21 10:19 G 17051646.75 17051646.93 17051647.12 0.0508 0.0099

Neptune 41973-11-03 18:14 G 17051690.19 17051690.26 17051690.33 0.0089 0.0073

Neptune 41974-01-30 19:12 G 17051778.26 17051778.30 17051778.37 0.0089 0.0081

Neptune 41974-04-28 20:38 G 17051866.36 17051866.36 17051866.38 0.0089 0.0088

Pluto 41979-05-13 07:26 G 17053706.80 17053706.81 17053706.83 0.0068 0.0068

Jupiter 41979-05-18 03:22 G 17053711.52 17053711.64 17053711.76 0.0518 0.0121

Pluto 41979-08-09 07:55 G 17053794.77 17053794.83 17053794.91 0.0068 0.0058

Jupiter 41979-08-15 07:12 G 17053800.75 17053800.80 17053800.85 0.0516 0.0465

Pluto 41979-11-05 08:24 G 17053882.77 17053882.85 17053882.96 0.0068 0.0048

Pluto 41980-02-01 09:07 G 17053970.77 17053970.88 17053971.00 0.0069 0.0037

Pluto 41980-04-29 09:36 G 17054058.79 17054058.90 17054059.03 0.0069 0.0027

Pluto 41980-07-26 10:05 G 17054146.80 17054146.92 17054147.06 0.0069 0.0017

Pluto 41980-10-22 10:48 G 17054234.82 17054234.95 17054235.08 0.0069 0.0006

Pluto 41981-01-18 11:17 G 17054322.84 17054322.97 17054323.11 0.0069 0.0005

Pluto 41981-04-16 11:46 G 17054410.87 17054410.99 17054411.13 0.0069 0.0015

Pluto 41981-07-13 12:29 G 17054498.90 17054499.02 17054499.14 0.0069 0.0026

Pluto 41981-10-09 12:43 G 17054586.93 17054587.03 17054587.15 0.0069 0.0037

Saturn 41981-10-14 10:05 G 17054591.83 17054591.92 17054592.01 0.0289 0.0206

Pluto 41982-01-05 13:12 G 17054674.97 17054675.05 17054675.16 0.0069 0.0048

Saturn 41982-01-10 21:22 G 17054680.26 17054680.39 17054680.51 0.0288 0.0055

Moon 41982-02-23 10:48 G 17054723.82 17054723.95 17054724.08 0.2680 0.1631

Earth 41982-02-23 12:43 G 17054723.92 17054724.03 17054724.14 0.2679 0.1997 *

Pluto 41982-04-03 13:55 G 17054763.02 17054763.08 17054763.16 0.0070 0.0058

Saturn 41982-04-09 08:24 G 17054768.73 17054768.85 17054768.98 0.0287 0.0095

Pluto 41982-06-30 14:24 G 17054851.09 17054851.10 17054851.13 0.0070 0.0069

Saturn 41982-07-06 19:41 G 17054857.25 17054857.32 17054857.39 0.0285 0.0241

Jupiter 41985-07-10 05:31 G 17055956.55 17055956.73 17055956.92 0.0508 0.0131

Moon 41985-08-20 09:07 G 17055997.77 17055997.88 17055997.98 0.2649 0.0778

Earth 41985-08-20 09:36 G 17055997.80 17055997.90 17055998.00 0.2653 0.0705 *

Mars 41986-08-09 04:34 G 17056351.61 17056351.69 17056351.77 0.1942 0.1324

Jupiter 41991-03-06 08:10 G 17058021.74 17058021.84 17058021.95 0.0518 0.0261

Mars 41991-04-22 22:34 G 17058069.29 17058069.44 17058069.60 0.1592 0.0657

Jupiter 41991-06-03 12:14 G 17058110.91 17058111.01 17058111.10 0.0516 0.0325

Mars 41995-12-30 12:58 G 17059781.93 17059782.04 17059782.15 0.1942 0.0117

Venus 41996-01-02 07:55 G 17059784.77 17059784.83 17059784.89 0.3690 0.3034

Jupiter 41997-04-28 02:10 G 17060266.45 17060266.59 17060266.73 0.0508 0.0338

Saturn 41998-01-18 21:36 G 17060532.40 17060532.40 17060532.41 0.0273 0.0273

Saturn 41998-04-17 21:07 G 17060621.19 17060621.38 17060621.56 0.0274 0.0077

Uranus 41998-04-17 19:26 G 17060621.25 17060621.31 17060621.39 0.0136 0.0126 *

Uranus 41998-07-15 03:07 G 17060709.51 17060709.63 17060709.78 0.0136 0.0098

Saturn 41998-07-15 20:24 G 17060710.18 17060710.35 17060710.53 0.0275 0.0121

Moon 41998-08-23 01:55 G 17060748.47 17060748.58 17060748.68 0.2653 0.0404

Earth 41998-08-23 02:24 G 17060748.50 17060748.60 17060748.71 0.2652 0.0533 *

Uranus 41998-10-11 10:48 G 17060797.79 17060797.95 17060798.13 0.0136 0.0070

Uranus 41999-01-07 18:43 G 17060886.09 17060886.28 17060886.47 0.0136 0.0041

Uranus 41999-04-06 02:24 G 17060974.40 17060974.60 17060974.79 0.0136 0.0013

Uranus 41999-07-03 09:50 G 17061062.72 17061062.91 17061063.11 0.0136 0.0015

Uranus 41999-09-29 17:17 G 17061151.04 17061151.22 17061151.41 0.0136 0.0042

Uranus 41999-12-27 00:43 G 17061239.37 17061239.53 17061239.71 0.0136 0.0070

Uranus 42000-03-24 08:10 G 17061327.72 17061327.84 17061327.99 0.0136 0.0097

Uranus 42000-06-20 15:36 G 17061416.08 17061416.15 17061416.24 0.0136 0.0124

Mars 42000-09-12 00:29 G 17061499.37 17061499.52 17061499.67 0.1591 0.0692

43RD MILLENNIUM CE

This is a list of transits of Mercury in the 43rd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Venus 42001-07-17 23:17 G 17061808.38 17061808.47 17061808.57 0.3689 0.1008

Jupiter 42002-12-23 12:43 G 17062331.96 17062332.03 17062332.11 0.0519 0.0411

Jupiter 42003-03-22 16:34 G 17062421.08 17062421.19 17062421.31 0.0517 0.0176

Mars 42005-05-21 21:07 G 17063212.31 17063212.38 17063212.44 0.1942 0.1598

Venus 42007-01-31 14:53 G 17063832.02 17063832.12 17063832.22 0.3689 0.1077

Jupiter 42009-05-15 13:12 G 17064666.91 17064667.05 17064667.20 0.0509 0.0329

Saturn 42011-03-03 11:17 G 17065323.93 17065323.97 17065324.03 0.0290 0.0264

Saturn 42011-05-30 22:48 G 17065412.33 17065412.45 17065412.57 0.0289 0.0112

Moon 42011-08-25 18:58 G 17065499.21 17065499.29 17065499.37 0.2657 0.1765

Earth 42011-08-25 19:26 G 17065499.23 17065499.31 17065499.39 0.2652 0.1759 *

Saturn 42011-08-27 09:50 G 17065500.79 17065500.91 17065501.04 0.0287 0.0039

Saturn 42011-11-23 21:07 G 17065589.28 17065589.38 17065589.48 0.0286 0.0187

Venus 42012-08-16 06:29 G 17065855.72 17065855.77 17065855.83 0.3688 0.3178

Jupiter 42015-01-08 21:22 G 17066731.26 17066731.39 17066731.52 0.0517 0.0030

Moon 42015-02-21 07:26 G 17066774.66 17066774.81 17066774.97 0.2678 0.0946

Earth 42015-02-21 09:22 G 17066774.73 17066774.89 17066775.05 0.2679 0.0668 *

Moon 42018-08-18 21:07 G 17068049.30 17068049.38 17068049.46 0.2648 0.1741

Earth 42018-08-18 21:22 G 17068049.31 17068049.39 17068049.47 0.2653 0.1689 *

Jupiter 42021-03-03 09:22 G 17068976.71 17068976.89 17068977.07 0.0508 0.0112

Mars 42026-02-07 04:34 G 17070778.62 17070778.69 17070778.76 0.1942 0.1508

Jupiter 42026-10-28 02:10 G 17071041.47 17071041.59 17071041.71 0.0518 0.0114

Jupiter 42027-01-25 06:00 G 17071130.71 17071130.75 17071130.80 0.0516 0.0474

Saturn 42027-09-04 18:14 G 17071353.10 17071353.26 17071353.43 0.0274 0.0144

Venus 42027-09-10 22:05 G 17071359.26 17071359.42 17071359.57 0.3682 0.0082

Saturn 42027-12-02 17:46 G 17071442.05 17071442.24 17071442.43 0.0275 0.0053

Moon 42028-02-24 18:00 G 17071526.19 17071526.25 17071526.31 0.2681 0.2473

Earth 42028-02-24 19:55 G 17071526.29 17071526.33 17071526.37 0.2680 0.2586 *

Saturn 42028-02-29 16:48 G 17071531.14 17071531.20 17071531.29 0.0277 0.0253

Mars 42030-10-21 23:17 G 17072496.33 17072496.47 17072496.61 0.1592 0.0871

Moon 42031-08-21 13:41 G 17072799.96 17072800.07 17072800.18 0.2649 0.0540

Earth 42031-08-21 14:10 G 17072799.99 17072800.09 17072800.20 0.2653 0.0470 *

Jupiter 42032-12-20 05:31 G 17073286.54 17073286.73 17073286.91 0.0508 0.0102

Mars 42035-06-30 12:43 G 17074208.92 17074209.03 17074209.14 0.1942 0.0022

Jupiter 42038-08-16 07:12 G 17075351.69 17075351.80 17075351.91 0.0518 0.0253

Jupiter 42038-11-13 11:02 G 17075440.87 17075440.96 17075441.06 0.0516 0.0335

Mars 42040-03-13 01:12 G 17075926.39 17075926.55 17075926.71 0.1592 0.0482

Saturn 42040-10-17 00:14 G 17076144.41 17076144.51 17076144.62 0.0289 0.0165

Saturn 42041-01-13 11:31 G 17076232.85 17076232.98 17076233.11 0.0288 0.0015

Saturn 42041-04-11 22:48 G 17076321.34 17076321.45 17076321.56 0.0287 0.0135

Saturn 42041-07-09 10:05 G 17076409.90 17076409.92 17076409.93 0.0285 0.0283

Uranus 42041-10-03 20:24 G 17076496.31 17076496.35 17076496.39 0.0142 0.0134

Uranus 42041-12-30 23:31 G 17076584.41 17076584.48 17076584.56 0.0142 0.0114

Uranus 42042-03-29 02:53 G 17076672.53 17076672.62 17076672.73 0.0142 0.0093

Uranus 42042-06-25 06:29 G 17076760.66 17076760.77 17076760.88 0.0142 0.0072

Uranus 42042-09-21 09:50 G 17076848.79 17076848.91 17076849.03 0.0142 0.0051

Uranus 42042-12-18 13:12 G 17076936.92 17076937.05 17076937.18 0.0142 0.0030

Uranus 42043-03-16 16:34 G 17077025.06 17077025.19 17077025.32 0.0142 0.0010

Uranus 42043-06-12 20:10 G 17077113.21 17077113.34 17077113.47 0.0142 0.0013

Uranus 42043-09-08 23:31 G 17077201.35 17077201.48 17077201.61 0.0142 0.0034

Uranus 42043-12-06 02:53 G 17077289.50 17077289.62 17077289.75 0.0142 0.0056

Uranus 42044-03-03 06:14 G 17077377.66 17077377.76 17077377.88 0.0143 0.0078

Uranus 42044-05-30 09:50 G 17077465.82 17077465.91 17077466.01 0.0143 0.0099

Moon 42044-08-23 06:29 G 17077550.67 17077550.77 17077550.88 0.2655 0.0721

Earth 42044-08-23 07:12 G 17077550.70 17077550.80 17077550.90 0.2652 0.0773 *

Uranus 42044-08-26 13:12 G 17077553.99 17077554.05 17077554.13 0.0143 0.0121

Jupiter 42044-10-08 00:14 G 17077596.38 17077596.51 17077596.66 0.0508 0.0335

Mars 42044-11-19 21:07 G 17077639.30 17077639.38 17077639.45 0.1943 0.1428

Uranus 42044-11-22 17:02 G 17077642.20 17077642.21 17077642.22 0.0143 0.0142

Jupiter 42050-06-04 12:14 G 17079661.93 17079662.01 17079662.09 0.0518 0.0393

Jupiter 42050-09-01 16:05 G 17079751.05 17079751.17 17079751.29 0.0517 0.0193

Venus 42052-08-08 05:17 G 17080457.64 17080457.72 17080457.80 0.3689 0.2304

Neptune 42053-03-15 10:05 G 17080676.89 17080676.92 17080677.01 0.0089 0.0085

Neptune 42053-06-11 14:24 G 17080764.99 17080765.10 17080765.21 0.0089 0.0073

Neptune 42053-09-07 18:00 G 17080853.12 17080853.25 17080853.40 0.0089 0.0062

Neptune 42053-12-04 21:36 G 17080941.25 17080941.40 17080941.58 0.0089 0.0051

Neptune 42054-03-03 01:12 G 17081029.39 17081029.55 17081029.75 0.0089 0.0040

Neptune 42054-05-30 05:17 G 17081117.54 17081117.72 17081117.91 0.0089 0.0028

Neptune 42054-08-26 09:07 G 17081205.69 17081205.88 17081206.07 0.0089 0.0017

Neptune 42054-11-22 12:43 G 17081293.84 17081294.03 17081294.23 0.0089 0.0006

Neptune 42055-02-18 16:34 G 17081381.99 17081382.19 17081382.39 0.0089 0.0006

Neptune 42055-05-17 20:10 G 17081470.15 17081470.34 17081470.54 0.0089 0.0017

Neptune 42055-08-13 23:46 G 17081558.31 17081558.49 17081558.68 0.0089 0.0029

Neptune 42055-11-10 03:22 G 17081646.48 17081646.64 17081646.83 0.0089 0.0040

Neptune 42056-02-06 07:12 G 17081734.65 17081734.80 17081734.97 0.0089 0.0051

Neptune 42056-05-04 10:48 G 17081822.82 17081822.95 17081823.10 0.0089 0.0062

Neptune 42056-07-31 14:38 G 17081911.01 17081911.11 17081911.22 0.0089 0.0073

Jupiter 42056-10-25 11:31 G 17081996.83 17081996.98 17081997.12 0.0509 0.0331

Neptune 42056-10-27 18:14 G 17081999.21 17081999.26 17081999.33 0.0089 0.0084

Saturn 42057-01-21 16:19 G 17082085.06 17082085.18 17082085.31 0.0273 0.0202

Saturn 42057-04-20 15:50 G 17082173.96 17082174.16 17082174.35 0.0274 0.0007

Saturn 42057-07-18 14:53 G 17082263.00 17082263.12 17082263.27 0.0276 0.0193

Moon 42057-08-25 23:46 G 17082301.42 17082301.49 17082301.57 0.2657 0.1918

Earth 42057-08-26 00:14 G 17082301.44 17082301.51 17082301.58 0.2652 0.2009 *

Venus 42058-02-21 20:53 G 17082481.26 17082481.37 17082481.47 0.3689 0.0278

Moon 42061-02-21 14:38 G 17083576.94 17083577.11 17083577.27 0.2678 0.0286

Earth 42061-02-21 16:34 G 17083577.03 17083577.19 17083577.36 0.2679 0.0086 *

Jupiter 42062-06-20 20:38 G 17084061.23 17084061.36 17084061.48 0.0517 0.0045

Venus 42063-09-07 12:29 G 17084504.93 17084505.02 17084505.11 0.3688 0.1838

Moon 42064-08-19 01:41 G 17084851.48 17084851.57 17084851.66 0.2648 0.1443

Earth 42064-08-19 02:10 G 17084851.50 17084851.59 17084851.67 0.2653 0.1450 *

Mars 42065-08-08 04:34 G 17085205.64 17085205.69 17085205.75 0.1941 0.1670

Pluto 42065-12-08 06:29 G 17085327.68 17085327.77 17085327.88 0.0075 0.0065

Pluto 42066-03-06 09:07 G 17085415.73 17085415.88 17085416.04 0.0075 0.0044

Pluto 42066-06-02 11:31 G 17085503.81 17085503.98 17085504.18 0.0075 0.0025

Pluto 42066-08-29 14:24 G 17085591.90 17085592.10 17085592.29 0.0075 0.0005

Pluto 42066-11-25 16:48 G 17085680.01 17085680.20 17085680.40 0.0075 0.0015

Pluto 42067-02-21 19:12 G 17085768.13 17085768.30 17085768.48 0.0075 0.0035

Pluto 42067-05-20 21:22 G 17085856.28 17085856.39 17085856.55 0.0074 0.0055

Pluto 42067-08-17 00:00 G 17085944.49 17085944.50 17085944.54 0.0074 0.0074

Jupiter 42068-08-13 08:10 G 17086306.65 17086306.84 17086307.02 0.0508 0.0123

Saturn 42070-03-06 01:55 G 17086876.50 17086876.58 17086876.67 0.0290 0.0218

Mars 42070-04-22 00:14 G 17086923.38 17086923.51 17086923.63 0.1592 0.1094

Saturn 42070-06-02 13:12 G 17086964.93 17086965.05 17086965.18 0.0289 0.0067

Saturn 42070-08-30 00:29 G 17087053.40 17087053.52 17087053.65 0.0287 0.0084

Saturn 42070-11-26 11:46 G 17087141.91 17087141.99 17087142.06 0.0286 0.0232

Jupiter 42074-04-09 01:12 G 17088371.43 17088371.55 17088371.67 0.0518 0.0105

Jupiter 42074-07-07 05:02 G 17088460.67 17088460.71 17088460.76 0.0516 0.0480

Mars 42074-12-29 12:43 G 17088635.92 17088636.03 17088636.15 0.1942 0.0200

Moon 42077-08-21 18:29 G 17089602.16 17089602.27 17089602.37 0.2650 0.0329

Earth 42077-08-21 18:58 G 17089602.18 17089602.29 17089602.40 0.2653 0.0212 *

Mars 42079-09-12 01:55 G 17090353.41 17090353.58 17090353.74 0.1591 0.0267

Jupiter 42080-06-01 04:05 G 17090616.48 17090616.67 17090616.85 0.0508 0.0095

Uranus 42082-05-08 03:50 G 17091322.56 17091322.66 17091322.77 0.0136 0.0115

Uranus 42082-08-04 11:31 G 17091410.84 17091410.98 17091411.14 0.0136 0.0087

Uranus 42082-10-31 19:12 G 17091499.13 17091499.30 17091499.48 0.0136 0.0059

Uranus 42083-01-28 02:53 G 17091587.43 17091587.62 17091587.81 0.0136 0.0031

Uranus 42083-04-26 10:34 G 17091675.75 17091675.94 17091676.14 0.0136 0.0003

Uranus 42083-07-23 18:00 G 17091764.06 17091764.25 17091764.45 0.0136 0.0025

Uranus 42083-10-20 01:26 G 17091852.39 17091852.56 17091852.75 0.0136 0.0053

Uranus 42084-01-16 08:53 G 17091940.73 17091940.87 17091941.04 0.0136 0.0080

Uranus 42084-04-13 16:34 G 17092029.07 17092029.19 17092029.31 0.0136 0.0107

Venus 42084-04-17 00:00 G 17092032.38 17092032.50 17092032.63 0.3682 0.2230

Mars 42084-05-20 20:53 G 17092066.29 17092066.37 17092066.46 0.1942 0.1267

Uranus 42084-07-11 00:00 G 17092117.48 17092117.50 17092117.53 0.0136 0.0134

Jupiter 42086-01-26 06:00 G 17092681.64 17092681.75 17092681.86 0.0518 0.0251

Jupiter 42086-04-25 09:50 G 17092770.82 17092770.91 17092771.01 0.0517 0.0336

Saturn 42086-06-10 14:10 G 17092817.05 17092817.09 17092817.15 0.0273 0.0263

Saturn 42086-09-07 13:41 G 17092905.89 17092906.07 17092906.26 0.0275 0.0067

Saturn 42086-12-05 12:58 G 17092994.88 17092995.04 17092995.22 0.0276 0.0132

Moon 42090-08-24 11:17 G 17094352.87 17094352.97 17094353.07 0.2656 0.0937

Earth 42090-08-24 12:00 G 17094352.90 17094353.00 17094353.09 0.2652 0.1025 *

Jupiter 42092-03-20 00:00 G 17094926.35 17094926.50 17094926.65 0.0507 0.0311

Moon 42097-08-17 13:55 G 17096903.04 17096903.08 17096903.13 0.2648 0.2350

Earth 42097-08-17 13:55 G 17096903.04 17096903.08 17096903.12 0.2654 0.2432 *

Jupiter 42097-11-14 11:02 G 17096991.88 17096991.96 17096992.04 0.0519 0.0390

Jupiter 42098-02-11 14:53 G 17097081.01 17097081.12 17097081.24 0.0517 0.0198

Saturn 42099-07-24 03:50 G 17097608.62 17097608.66 17097608.71 0.0290 0.0267

Saturn 42099-10-20 15:07 G 17097697.02 17097697.13 17097697.25 0.0289 0.0115

Saturn 42100-01-17 02:24 G 17097785.47 17097785.60 17097785.73 0.0288 0.0036

Saturn 42100-04-15 13:41 G 17097873.97 17097874.07 17097874.17 0.0286 0.0185

Moon 42103-08-28 04:48 G 17099103.64 17099103.70 17099103.75 0.2658 0.2268

Earth 42103-08-28 04:48 G 17099103.65 17099103.70 17099103.76 0.2652 0.2252 *

Venus 42103-08-31 11:17 G 17099106.95 17099106.97 17099106.99 0.3690 0.3597

Jupiter 42104-04-07 09:07 G 17099326.74 17099326.88 17099327.03 0.0509 0.0328

Mars 42105-02-07 04:34 G 17099632.65 17099632.69 17099632.72 0.1942 0.1825

Moon 42107-02-23 21:50 G 17100379.24 17100379.41 17100379.57 0.2678 0.0299

Earth 42107-02-23 23:46 G 17100379.33 17100379.49 17100379.65 0.2679 0.0537 *

Venus 42109-03-16 02:38 G 17101130.52 17101130.61 17101130.70 0.3689 0.1567

Mars 42109-10-22 00:43 G 17101350.44 17101350.53 17101350.63 0.1592 0.1307

Jupiter 42109-12-01 19:55 G 17101391.20 17101391.33 17101391.45 0.0517 0.0058

Moon 42110-08-21 06:14 G 17101653.67 17101653.76 17101653.86 0.2647 0.1313

Earth 42110-08-21 06:43 G 17101653.69 17101653.78 17101653.88 0.2653 0.1199 *

Mars 42114-06-30 12:43 G 17103062.92 17103063.03 17103063.14 0.1942 0.0374

Venus 42114-09-29 18:14 G 17103154.16 17103154.26 17103154.36 0.3689 0.0503

Jupiter 42116-01-25 05:31 G 17103636.55 17103636.73 17103636.92 0.0509 0.0117

Saturn 42116-01-26 12:29 G 17103637.85 17103638.02 17103638.20 0.0274 0.0119

Saturn 42116-04-24 12:00 G 17103726.82 17103727.00 17103727.18 0.0275 0.0078

Mars 42119-03-14 02:38 G 17104780.44 17104780.61 17104780.78 0.1592 0.0043

Venus 42120-04-14 09:50 G 17105177.84 17105177.91 17105177.98 0.3688 0.2599

Jupiter 42121-09-20 00:14 G 17105701.38 17105701.51 17105701.63 0.0518 0.0098

Jupiter 42121-12-18 04:05 G 17105790.63 17105790.67 17105790.71 0.0516 0.0488

Moon 42123-08-23 23:02 G 17106404.35 17106404.46 17106404.57 0.2652 0.0017

Earth 42123-08-23 23:46 G 17106404.38 17106404.49 17106404.59 0.2652 0.0087 *

Mars 42123-11-20 20:53 G 17106493.28 17106493.37 17106493.47 0.1942 0.1101

Uranus 42125-10-25 03:50 G 17107197.62 17107197.66 17107197.73 0.0142 0.0127

Uranus 42126-01-21 07:26 G 17107285.73 17107285.81 17107285.90 0.0142 0.0106

Uranus 42126-04-19 10:48 G 17107373.85 17107373.95 17107374.05 0.0142 0.0085

Uranus 42126-07-16 14:10 G 17107461.98 17107462.09 17107462.21 0.0142 0.0064

Uranus 42126-10-12 17:31 G 17107550.11 17107550.23 17107550.36 0.0142 0.0043

Uranus 42127-01-08 21:07 G 17107638.25 17107638.38 17107638.51 0.0142 0.0023

Uranus 42127-04-07 00:29 G 17107726.39 17107726.52 17107726.65 0.0142 0.0002

Uranus 42127-07-04 03:50 G 17107814.53 17107814.66 17107814.79 0.0142 0.0020

Uranus 42127-09-30 07:12 G 17107902.68 17107902.80 17107902.93 0.0142 0.0042

Jupiter 42127-11-13 02:10 G 17107946.40 17107946.59 17107946.78 0.0508 0.0092

Uranus 42127-12-27 10:48 G 17107990.83 17107990.95 17107991.07 0.0142 0.0063

Uranus 42128-03-24 14:10 G 17108078.99 17108079.09 17108079.20 0.0143 0.0085

Uranus 42128-06-20 17:31 G 17108167.15 17108167.23 17108167.33 0.0143 0.0107

Mars 42128-08-03 04:19 G 17108210.60 17108210.68 17108210.76 0.1591 0.1399

Uranus 42128-09-16 21:07 G 17108255.33 17108255.38 17108255.44 0.0143 0.0129

Saturn 42129-03-09 17:17 G 17108429.12 17108429.22 17108429.33 0.0289 0.0163

Saturn 42129-06-06 04:34 G 17108517.56 17108517.69 17108517.82 0.0288 0.0012

Saturn 42129-09-02 15:36 G 17108606.04 17108606.15 17108606.27 0.0287 0.0138

Saturn 42129-11-30 02:53 G 17108694.62 17108694.62 17108694.62 0.0286 0.0286

Jupiter 42133-07-09 04:48 G 17110011.59 17110011.70 17110011.81 0.0518 0.0246

Neptune 42133-07-09 14:38 G 17110012.07 17110012.11 17110012.16 0.0089 0.0083

Neptune 42133-10-05 15:50 G 17110100.10 17110100.16 17110100.24 0.0089 0.0076

Jupiter 42133-10-06 08:38 G 17110100.77 17110100.86 17110100.95 0.0516 0.0340

Neptune 42134-01-01 17:17 G 17110188.14 17110188.22 17110188.30 0.0089 0.0068

Neptune 42134-03-30 18:29 G 17110276.18 17110276.27 17110276.37 0.0089 0.0061

Neptune 42134-06-26 19:55 G 17110364.22 17110364.33 17110364.43 0.0089 0.0053

Neptune 42134-09-22 20:53 G 17110452.27 17110452.37 17110452.49 0.0089 0.0046

Neptune 42134-12-19 22:19 G 17110540.32 17110540.43 17110540.55 0.0089 0.0038

Neptune 42135-03-17 23:31 G 17110628.36 17110628.48 17110628.61 0.0089 0.0031

Venus 42135-05-09 17:17 G 17110681.10 17110681.22 17110681.34 0.3681 0.2253

Neptune 42135-06-14 00:58 G 17110716.41 17110716.54 17110716.67 0.0089 0.0023

Neptune 42135-09-10 02:10 G 17110804.46 17110804.59 17110804.72 0.0089 0.0016

Neptune 42135-12-07 03:22 G 17110892.51 17110892.64 17110892.78 0.0089 0.0009

Neptune 42136-03-04 04:48 G 17110980.57 17110980.70 17110980.83 0.0089 0.0001

Neptune 42136-05-31 06:00 G 17111068.62 17111068.75 17111068.88 0.0089 0.0007

Moon 42136-08-25 16:05 G 17111155.07 17111155.17 17111155.26 0.2656 0.1183

Earth 42136-08-25 16:34 G 17111155.10 17111155.19 17111155.29 0.2652 0.1268 *

Neptune 42136-08-27 07:12 G 17111156.68 17111156.80 17111156.94 0.0089 0.0015

Neptune 42136-11-23 08:38 G 17111244.73 17111244.86 17111244.99 0.0089 0.0022

Neptune 42137-02-19 09:50 G 17111332.79 17111332.91 17111333.04 0.0089 0.0029

Neptune 42137-05-18 11:02 G 17111420.84 17111420.96 17111421.08 0.0089 0.0037

Neptune 42137-08-14 12:14 G 17111508.90 17111509.01 17111509.13 0.0089 0.0045

Neptune 42137-11-10 13:41 G 17111596.97 17111597.07 17111597.18 0.0089 0.0052

Neptune 42138-02-06 14:53 G 17111685.03 17111685.12 17111685.22 0.0089 0.0059

Neptune 42138-05-05 16:19 G 17111773.09 17111773.18 17111773.26 0.0089 0.0067

Neptune 42138-08-01 17:17 G 17111861.16 17111861.22 17111861.30 0.0089 0.0075

Neptune 42138-10-28 18:43 G 17111949.24 17111949.28 17111949.33 0.0089 0.0082

Jupiter 42139-08-31 22:05 G 17112256.27 17112256.42 17112256.57 0.0507 0.0310

Moon 42140-02-21 18:29 G 17112430.18 17112430.27 17112430.36 0.2676 0.2238

Earth 42140-02-21 20:24 G 17112430.25 17112430.35 17112430.45 0.2679 0.2130 *

Earth 42143-08-19 18:29 G 17113705.21 17113705.27 17113705.33 0.2654 0.2186

Moon 42143-08-19 18:29 G 17113705.22 17113705.27 17113705.33 0.2647 0.2228 *

Jupiter 42145-04-27 09:22 G 17114321.81 17114321.89 17114321.97 0.0519 0.0394

Saturn 42145-06-14 11:17 G 17114369.82 17114369.97 17114370.12 0.0274 0.0174

Jupiter 42145-07-25 13:12 G 17114410.94 17114411.05 17114411.17 0.0517 0.0195

Saturn 42145-09-11 10:34 G 17114458.75 17114458.94 17114459.13 0.0275 0.0024

Saturn 42145-12-09 09:50 G 17114547.81 17114547.91 17114548.03 0.0276 0.0222

Mars 42149-04-22 01:26 G 17115777.51 17115777.56 17115777.61 0.1592 0.1519

Moon 42149-08-28 09:36 G 17115905.86 17115905.90 17115905.93 0.2658 0.2493

Earth 42149-08-28 09:36 G 17115905.87 17115905.90 17115905.93 0.2651 0.2499 *

Jupiter 42151-09-18 08:10 G 17116656.70 17116656.84 17116656.98 0.0509 0.0344

Moon 42153-02-24 05:02 G 17117181.55 17117181.71 17117181.86 0.2680 0.0858

Earth 42153-02-24 06:43 G 17117181.63 17117181.78 17117181.93 0.2679 0.1127 *

Mars 42153-12-29 12:43 G 17117489.92 17117490.03 17117490.14 0.1942 0.0522

Moon 42156-08-21 11:02 G 17118455.86 17118455.96 17118456.06 0.2648 0.0953

Earth 42156-08-21 11:31 G 17118455.88 17118455.98 17118456.08 0.2653 0.0956 *

Jupiter 42157-05-13 18:14 G 17118721.14 17118721.26 17118721.39 0.0517 0.0056

Saturn 42158-07-27 19:41 G 17119161.23 17119161.32 17119161.41 0.0289 0.0207

Mars 42158-09-12 03:22 G 17119207.47 17119207.64 17119207.81 0.1592 0.0174

Saturn 42158-10-24 06:58 G 17119249.66 17119249.79 17119249.92 0.0288 0.0055

Saturn 42159-01-20 18:14 G 17119338.14 17119338.26 17119338.38 0.0287 0.0095

Saturn 42159-04-19 05:17 G 17119426.66 17119426.72 17119426.79 0.0286 0.0244

Venus 42160-04-06 08:38 G 17119779.80 17119779.86 17119779.92 0.3690 0.2863

Mars 42163-05-21 20:53 G 17120920.27 17120920.37 17120920.47 0.1942 0.0938

Jupiter 42163-07-07 02:53 G 17120966.43 17120966.62 17120966.80 0.0508 0.0107

Venus 42165-10-21 00:00 G 17121803.41 17121803.50 17121803.60 0.3689 0.0837

Uranus 42166-03-02 04:05 G 17121935.64 17121935.67 17121935.70 0.0137 0.0134

Uranus 42166-05-29 11:31 G 17122023.87 17122023.98 17122024.11 0.0136 0.0106

Uranus 42166-08-25 19:12 G 17122112.15 17122112.30 17122112.47 0.0136 0.0078

Uranus 42166-11-22 03:07 G 17122200.45 17122200.63 17122200.81 0.0136 0.0049

Uranus 42167-02-18 10:48 G 17122288.76 17122288.95 17122289.14 0.0136 0.0021

Uranus 42167-05-17 18:14 G 17122377.07 17122377.26 17122377.46 0.0136 0.0007

Uranus 42167-08-14 01:55 G 17122465.39 17122465.58 17122465.77 0.0136 0.0034

Uranus 42167-11-10 09:07 G 17122553.72 17122553.88 17122554.07 0.0136 0.0062

Mars 42168-02-02 05:02 G 17122637.60 17122637.71 17122637.82 0.1592 0.1183

Uranus 42168-02-06 16:48 G 17122642.06 17122642.20 17122642.35 0.0136 0.0089

Uranus 42168-05-05 00:14 G 17122730.42 17122730.51 17122730.61 0.0136 0.0116

Jupiter 42169-03-01 23:17 G 17123031.34 17123031.47 17123031.59 0.0518 0.0089

Jupiter 42169-05-30 03:07 G 17123120.60 17123120.63 17123120.66 0.0516 0.0497

Moon 42169-08-24 03:50 G 17123206.55 17123206.66 17123206.76 0.2653 0.0163

Earth 42169-08-24 04:19 G 17123206.58 17123206.68 17123206.79 0.2652 0.0290 *

Venus 42171-05-06 15:36 G 17123827.06 17123827.15 17123827.25 0.3689 0.1267

Saturn 42174-11-01 10:34 G 17125101.84 17125101.94 17125102.06 0.0273 0.0220

Saturn 42175-01-29 10:05 G 17125190.73 17125190.92 17125191.12 0.0274 0.0025

Jupiter 42175-04-24 23:02 G 17125276.28 17125276.46 17125276.65 0.0508 0.0106

Saturn 42175-04-28 09:22 G 17125279.75 17125279.89 17125280.05 0.0275 0.0175

Venus 42176-11-19 07:12 G 17125850.77 17125850.80 17125850.84 0.3688 0.3370

Jupiter 42180-12-19 03:22 G 17127341.53 17127341.64 17127341.75 0.0518 0.0243

Jupiter 42181-03-18 07:26 G 17127430.71 17127430.81 17127430.90 0.0516 0.0344

Moon 42182-08-26 20:53 G 17127957.28 17127957.37 17127957.46 0.2656 0.1470

Earth 42182-08-26 21:22 G 17127957.30 17127957.39 17127957.48 0.2652 0.1512 *

Moon 42186-02-22 01:41 G 17129232.45 17129232.57 17129232.68 0.2676 0.1882

Earth 42186-02-22 03:22 G 17129232.51 17129232.64 17129232.78 0.2679 0.1537 *

Jupiter 42187-02-10 19:26 G 17129586.17 17129586.31 17129586.46 0.0508 0.0315

Saturn 42187-12-14 22:05 G 17129893.36 17129893.42 17129893.49 0.0290 0.0250

Saturn 42188-03-12 09:22 G 17129981.77 17129981.89 17129982.02 0.0289 0.0098

Saturn 42188-06-08 20:38 G 17130070.24 17130070.36 17130070.49 0.0288 0.0054

Saturn 42188-09-05 07:55 G 17130158.74 17130158.83 17130158.92 0.0287 0.0202

Moon 42189-08-19 23:02 G 17130507.39 17130507.46 17130507.53 0.2647 0.1920

Earth 42189-08-19 23:17 G 17130507.40 17130507.47 17130507.54 0.2654 0.1941 *

Venus 42191-12-14 19:12 G 17131354.15 17131354.30 17131354.46 0.3682 0.0100

Jupiter 42192-10-07 07:55 G 17131651.75 17131651.83 17131651.91 0.0518 0.0393

Jupiter 42193-01-04 11:46 G 17131740.88 17131740.99 17131741.11 0.0517 0.0195

Mars 42193-06-29 12:43 G 17131916.92 17131917.03 17131917.13 0.1942 0.0688

Mars 42198-03-13 04:05 G 17133634.50 17133634.67 17133634.83 0.1592 0.0391

Moon 42199-02-25 12:00 G 17133983.87 17133984.00 17133984.13 0.2682 0.1583

Earth 42199-02-25 13:55 G 17133983.95 17133984.08 17133984.20 0.2679 0.1715 *

Jupiter 42199-02-28 05:46 G 17133986.60 17133986.74 17133986.88 0.0509 0.0339

Moon 42202-08-23 15:36 G 17135258.05 17135258.15 17135258.25 0.2649 0.0831

Earth 42202-08-23 16:05 G 17135258.07 17135258.17 17135258.28 0.2653 0.0710 *

Mars 42202-11-20 20:53 G 17135347.27 17135347.37 17135347.47 0.1942 0.0767

Saturn 42204-03-21 10:05 G 17135833.90 17135833.92 17135833.97 0.0273 0.0269

Saturn 42204-06-18 09:36 G 17135922.72 17135922.90 17135923.09 0.0274 0.0073

Saturn 42204-09-15 09:07 G 17136011.71 17136011.88 17136012.05 0.0275 0.0126

Jupiter 42204-10-24 16:19 G 17136051.06 17136051.18 17136051.31 0.0517 0.0050

Mars 42207-08-04 05:46 G 17137064.60 17137064.74 17137064.87 0.1592 0.0969

Uranus 42209-11-15 11:17 G 17137898.91 17137898.97 17137899.04 0.0142 0.0121

Uranus 42210-02-11 14:38 G 17137987.03 17137987.11 17137987.21 0.0142 0.0101

Uranus 42210-05-10 18:00 G 17138075.15 17138075.25 17138075.36 0.0142 0.0080

Uranus 42210-08-06 21:22 G 17138163.28 17138163.39 17138163.52 0.0142 0.0059

Uranus 42210-11-03 00:58 G 17138251.41 17138251.54 17138251.66 0.0142 0.0038

Jupiter 42210-12-18 01:26 G 17138296.38 17138296.56 17138296.75 0.0508 0.0118

Uranus 42211-01-30 04:19 G 17138339.55 17138339.68 17138339.81 0.0142 0.0017

Uranus 42211-04-28 07:41 G 17138427.69 17138427.82 17138427.95 0.0142 0.0006

Uranus 42211-07-25 11:02 G 17138515.84 17138515.96 17138516.10 0.0142 0.0027

Uranus 42211-10-21 14:38 G 17138603.99 17138604.11 17138604.23 0.0142 0.0047

Uranus 42212-01-17 18:00 G 17138692.14 17138692.25 17138692.37 0.0143 0.0069

Uranus 42212-04-14 21:22 G 17138780.30 17138780.39 17138780.50 0.0143 0.0091

Uranus 42212-07-12 00:58 G 17138868.47 17138868.54 17138868.63 0.0143 0.0112

Uranus 42212-10-08 04:34 G 17138956.65 17138956.69 17138956.73 0.0143 0.0134

Moon 42215-08-26 08:24 G 17140008.75 17140008.85 17140008.96 0.2654 0.0491

Earth 42215-08-26 09:07 G 17140008.77 17140008.88 17140008.98 0.2652 0.0523 *

Jupiter 42216-08-12 21:22 G 17140361.27 17140361.39 17140361.52 0.0518 0.0096

Jupiter 42216-11-10 01:26 G 17140450.52 17140450.56 17140450.59 0.0516 0.0491

Venus 42216-11-12 06:00 G 17140452.67 17140452.75 17140452.83 0.3689 0.2127

Saturn 42217-05-04 00:43 G 17140625.53 17140625.53 17140625.54 0.0290 0.0289

Saturn 42217-07-31 12:14 G 17140713.90 17140714.01 17140714.12 0.0289 0.0136

Saturn 42217-10-27 23:31 G 17140802.35 17140802.48 17140802.61 0.0288 0.0016

Neptune 42217-12-12 07:55 G 17140847.78 17140847.83 17140847.94 0.0089 0.0082

Saturn 42218-01-24 10:34 G 17140890.84 17140890.94 17140891.05 0.0286 0.0164

Neptune 42218-03-10 12:14 G 17140935.89 17140936.01 17140936.13 0.0089 0.0070

Neptune 42218-06-06 15:50 G 17141024.02 17141024.16 17141024.32 0.0089 0.0059

Neptune 42218-09-02 19:26 G 17141112.16 17141112.31 17141112.49 0.0089 0.0048

Neptune 42218-11-29 23:02 G 17141200.30 17141200.46 17141200.66 0.0089 0.0037

Neptune 42219-02-26 03:07 G 17141288.44 17141288.63 17141288.82 0.0089 0.0025

Neptune 42219-05-25 06:58 G 17141376.59 17141376.79 17141376.98 0.0089 0.0014

Neptune 42219-08-21 10:34 G 17141464.75 17141464.94 17141465.14 0.0089 0.0003

Neptune 42219-11-17 14:24 G 17141552.90 17141553.10 17141553.29 0.0089 0.0009

Neptune 42220-02-13 18:00 G 17141641.06 17141641.25 17141641.44 0.0089 0.0020

Neptune 42220-05-11 21:22 G 17141729.22 17141729.39 17141729.59 0.0089 0.0032

Neptune 42220-08-08 01:12 G 17141817.39 17141817.55 17141817.73 0.0089 0.0043

Neptune 42220-11-04 04:48 G 17141905.56 17141905.70 17141905.87 0.0089 0.0054

Neptune 42221-01-31 08:38 G 17141993.74 17141993.86 17141994.00 0.0089 0.0065

Neptune 42221-04-29 12:14 G 17142081.92 17142082.01 17142082.12 0.0089 0.0076

Neptune 42221-07-26 16:05 G 17142170.14 17142170.17 17142170.21 0.0089 0.0087

Venus 42222-05-28 21:36 G 17142476.29 17142476.40 17142476.50 0.3689 0.0125

Jupiter 42222-10-05 19:55 G 17142606.15 17142606.33 17142606.52 0.0508 0.0120

Pluto 42227-09-06 16:19 G 17144403.12 17144403.18 17144403.25 0.0068 0.0059

Pluto 42227-12-03 16:34 G 17144491.11 17144491.19 17144491.30 0.0068 0.0049

Venus 42227-12-12 13:12 G 17144499.96 17144500.05 17144500.13 0.3688 0.2025

Pluto 42228-02-29 17:17 G 17144579.12 17144579.22 17144579.34 0.0069 0.0038

Pluto 42228-05-27 18:00 G 17144667.13 17144667.25 17144667.37 0.0069 0.0028

Jupiter 42228-06-01 02:10 G 17144671.48 17144671.59 17144671.70 0.0518 0.0239

Pluto 42228-08-23 18:29 G 17144755.14 17144755.27 17144755.40 0.0069 0.0018

Moon 42228-08-28 01:41 G 17144759.49 17144759.57 17144759.65 0.2657 0.1675

Earth 42228-08-28 02:10 G 17144759.51 17144759.59 17144759.67 0.2652 0.1760 *

Jupiter 42228-08-29 06:14 G 17144760.67 17144760.76 17144760.85 0.0516 0.0349

Pluto 42228-11-19 18:58 G 17144843.16 17144843.29 17144843.43 0.0069 0.0008

Pluto 42229-02-15 19:41 G 17144931.19 17144931.32 17144931.45 0.0069 0.0004

Pluto 42229-05-14 20:10 G 17145019.21 17145019.34 17145019.47 0.0069 0.0014

Pluto 42229-08-10 20:38 G 17145107.24 17145107.36 17145107.49 0.0069 0.0025

Pluto 42229-11-06 21:07 G 17145195.27 17145195.38 17145195.50 0.0069 0.0035

Pluto 42230-02-02 21:50 G 17145283.31 17145283.41 17145283.51 0.0069 0.0046

Pluto 42230-05-01 22:05 G 17145371.36 17145371.42 17145371.51 0.0070 0.0057

Pluto 42230-07-28 22:34 G 17145459.43 17145459.44 17145459.48 0.0070 0.0068

Moon 42232-02-24 08:38 G 17146034.71 17146034.86 17146035.02 0.2676 0.1048

Earth 42232-02-24 10:34 G 17146034.79 17146034.94 17146035.10 0.2679 0.0941 *

Mars 42232-12-29 12:43 G 17146343.93 17146344.03 17146344.13 0.1942 0.0873

Saturn 42233-11-05 09:36 G 17146654.73 17146654.90 17146655.08 0.0274 0.0116

Saturn 42234-02-02 09:07 G 17146743.70 17146743.88 17146744.06 0.0275 0.0082

Jupiter 42234-07-24 16:05 G 17146916.03 17146916.17 17146916.31 0.0507 0.0335

Moon 42235-08-22 03:50 G 17147309.58 17147309.66 17147309.74 0.2647 0.1747

Earth 42235-08-22 03:50 G 17147309.58 17147309.66 17147309.75 0.2654 0.1698 *

Mars 42237-09-12 04:48 G 17148061.54 17148061.70 17148061.86 0.1592 0.0613

Jupiter 42240-03-20 06:29 G 17148981.69 17148981.77 17148981.85 0.0519 0.0394

Jupiter 42240-06-17 10:19 G 17149070.82 17149070.93 17149071.05 0.0517 0.0193

Mars 42242-05-21 20:53 G 17149774.26 17149774.37 17149774.47 0.1942 0.0617

Moon 42245-02-26 19:12 G 17150786.19 17150786.30 17150786.41 0.2683 0.1988

Earth 42245-02-26 20:53 G 17150786.29 17150786.37 17150786.46 0.2679 0.2309 *

Jupiter 42246-08-11 02:53 G 17151316.48 17151316.62 17151316.77 0.0509 0.0329

Saturn 42246-12-18 15:07 G 17151446.03 17151446.13 17151446.23 0.0290 0.0174

Mars 42247-02-02 06:29 G 17151491.62 17151491.77 17151491.92 0.1592 0.0748

Saturn 42247-03-17 02:24 G 17151534.47 17151534.60 17151534.73 0.0288 0.0022

Saturn 42247-06-13 13:26 G 17151622.95 17151623.06 17151623.18 0.0287 0.0129

Saturn 42247-09-10 00:43 G 17151711.50 17151711.53 17151711.56 0.0286 0.0276

Venus 42248-07-21 21:22 G 17152027.26 17152027.39 17152027.51 0.3682 0.2156

Moon 42248-08-23 20:10 G 17152060.24 17152060.34 17152060.45 0.2651 0.0515

Earth 42248-08-23 20:53 G 17152060.26 17152060.37 17152060.47 0.2653 0.0465 *

Uranus 42250-03-23 11:46 G 17152636.92 17152636.99 17152637.08 0.0137 0.0125

Uranus 42250-06-19 19:26 G 17152725.18 17152725.31 17152725.46 0.0136 0.0096

Uranus 42250-09-16 03:07 G 17152813.47 17152813.63 17152813.81 0.0136 0.0068

Uranus 42250-12-13 10:48 G 17152901.77 17152901.95 17152902.15 0.0136 0.0041

Uranus 42251-03-11 18:43 G 17152990.08 17152990.28 17152990.47 0.0136 0.0012

Uranus 42251-06-08 02:10 G 17153078.40 17153078.59 17153078.79 0.0136 0.0016

Uranus 42251-09-04 09:50 G 17153166.72 17153166.91 17153167.09 0.0136 0.0043

Uranus 42251-12-01 17:02 G 17153255.06 17153255.21 17153255.39 0.0136 0.0071

Uranus 42252-02-28 00:43 G 17153343.40 17153343.53 17153343.66 0.0136 0.0098

Jupiter 42252-04-05 14:53 G 17153380.99 17153381.12 17153381.24 0.0517 0.0043

Uranus 42252-05-26 08:10 G 17153431.77 17153431.84 17153431.91 0.0136 0.0125

Jupiter 42258-05-29 22:48 G 17155626.26 17155626.45 17155626.63 0.0508 0.0108

Moon 42261-08-26 13:12 G 17156810.95 17156811.05 17156811.15 0.2654 0.0622

Earth 42261-08-26 13:55 G 17156810.97 17156811.08 17156811.18 0.2652 0.0778 *

Saturn 42263-03-25 09:50 G 17157386.75 17157386.91 17157387.06 0.0274 0.0159

Saturn 42263-06-22 09:07 G 17157475.69 17157475.88 17157476.07 0.0275 0.0038

Saturn 42263-09-19 08:24 G 17157564.76 17157564.85 17157564.95 0.0276 0.0238

Jupiter 42264-01-23 19:12 G 17157691.18 17157691.30 17157691.43 0.0518 0.0110

Jupiter 42264-04-21 23:17 G 17157780.42 17157780.47 17157780.51 0.0516 0.0477

Venus 42267-12-04 12:00 G 17159101.96 17159102.00 17159102.03 0.3690 0.3426

Moon 42268-08-19 15:50 G 17159361.15 17159361.16 17159361.17 0.2648 0.2625

Jupiter 42270-03-17 18:14 G 17159936.08 17159936.26 17159936.44 0.0508 0.0115

Mars 42272-06-29 12:29 G 17160770.92 17160771.02 17160771.12 0.1942 0.1009

Venus 42273-06-19 03:22 G 17161125.55 17161125.64 17161125.74 0.3689 0.1397

Moon 42274-08-29 06:29 G 17161561.70 17161561.77 17161561.84 0.2658 0.2031

Earth 42274-08-29 06:43 G 17161561.71 17161561.78 17161561.85 0.2652 0.2000 *

Jupiter 42275-11-12 00:14 G 17162001.40 17162001.51 17162001.62 0.0519 0.0251

Jupiter 42276-02-09 04:05 G 17162090.58 17162090.67 17162090.77 0.0517 0.0337

Saturn 42276-05-06 18:14 G 17162178.17 17162178.26 17162178.35 0.0289 0.0208

Saturn 42276-08-03 05:31 G 17162266.60 17162266.73 17162266.86 0.0288 0.0056

Saturn 42276-10-30 16:48 G 17162355.08 17162355.20 17162355.32 0.0287 0.0095

Saturn 42277-01-27 03:50 G 17162443.60 17162443.66 17162443.73 0.0286 0.0243

Mars 42277-03-13 05:31 G 17162488.58 17162488.73 17162488.87 0.1592 0.0825

Moon 42278-02-24 15:50 G 17162837.00 17162837.16 17162837.32 0.2678 0.0683

Earth 42278-02-24 17:31 G 17162837.07 17162837.23 17162837.40 0.2679 0.0355 *

Venus 42279-01-02 18:58 G 17163149.19 17163149.29 17163149.39 0.3689 0.0683

Moon 42281-08-22 08:24 G 17164111.76 17164111.85 17164111.94 0.2647 0.1466

Earth 42281-08-22 08:38 G 17164111.77 17164111.86 17164111.95 0.2654 0.1447 *

Mars 42281-11-19 20:53 G 17164201.26 17164201.37 17164201.48 0.1942 0.0438

Jupiter 42282-01-03 12:43 G 17164245.89 17164246.03 17164246.16 0.0507 0.0352

Venus 42284-07-18 10:34 G 17165172.87 17165172.94 17165173.00 0.3688 0.2772

Mars 42286-08-03 07:12 G 17165918.64 17165918.80 17165918.96 0.1592 0.0529

Jupiter 42287-08-31 05:02 G 17166311.63 17166311.71 17166311.79 0.0519 0.0395

Jupiter 42287-11-28 08:53 G 17166400.76 17166400.87 17166400.99 0.0517 0.0194

Mars 42291-04-12 05:02 G 17167631.69 17167631.71 17167631.73 0.1941 0.1898

Saturn 42292-08-11 10:05 G 17168118.79 17168118.92 17168119.06 0.0273 0.0199

Saturn 42292-11-08 09:36 G 17168207.71 17168207.90 17168208.09 0.0274 0.0002

Saturn 42293-02-05 08:53 G 17168296.74 17168296.87 17168297.01 0.0276 0.0197

Uranus 42293-09-08 15:07 G 17168512.11 17168512.13 17168512.16 0.0141 0.0137

Uranus 42293-12-05 18:29 G 17168600.20 17168600.27 17168600.34 0.0142 0.0117

Jupiter 42294-01-20 23:02 G 17168646.31 17168646.46 17168646.61 0.0509 0.0304

Uranus 42294-03-03 21:36 G 17168688.32 17168688.40 17168688.51 0.0142 0.0097

Uranus 42294-05-31 01:12 G 17168776.44 17168776.55 17168776.66 0.0142 0.0076

Moon 42294-08-25 00:58 G 17168862.43 17168862.54 17168862.65 0.2652 0.0338

Earth 42294-08-25 01:41 G 17168862.46 17168862.57 17168862.67 0.2653 0.0231 *

Uranus 42294-08-27 04:34 G 17168864.57 17168864.69 17168864.81 0.0142 0.0055

Uranus 42294-11-23 07:55 G 17168952.71 17168952.83 17168952.96 0.0142 0.0034

Uranus 42295-02-19 11:31 G 17169040.85 17169040.98 17169041.11 0.0142 0.0013

Uranus 42295-05-18 14:53 G 17169128.99 17169129.12 17169129.25 0.0142 0.0009

Uranus 42295-08-14 18:14 G 17169217.13 17169217.26 17169217.39 0.0142 0.0030

Uranus 42295-11-10 21:36 G 17169305.28 17169305.40 17169305.53 0.0142 0.0052

Uranus 42296-02-07 01:12 G 17169393.44 17169393.55 17169393.66 0.0142 0.0073

Uranus 42296-05-05 04:34 G 17169481.60 17169481.69 17169481.79 0.0143 0.0095

Uranus 42296-08-01 07:55 G 17169569.77 17169569.83 17169569.92 0.0143 0.0117

Uranus 42296-10-28 11:31 G 17169657.96 17169657.98 17169658.02 0.0143 0.0138

Neptune 42298-04-06 13:55 G 17170183.04 17170183.08 17170183.14 0.0089 0.0082

Neptune 42298-07-03 15:22 G 17170271.07 17170271.14 17170271.21 0.0089 0.0074

Neptune 42298-09-29 16:34 G 17170359.11 17170359.19 17170359.28 0.0089 0.0067

Neptune 42298-12-26 18:00 G 17170447.15 17170447.25 17170447.34 0.0089 0.0059

Neptune 42299-03-24 18:58 G 17170535.19 17170535.29 17170535.41 0.0089 0.0052

Neptune 42299-06-20 20:10 G 17170623.24 17170623.34 17170623.47 0.0089 0.0045

Venus 42299-08-12 14:24 G 17170675.98 17170676.10 17170676.22 0.3681 0.2372

Jupiter 42299-09-16 13:12 G 17170710.92 17170711.05 17170711.17 0.0517 0.0039

Neptune 42299-09-16 21:36 G 17170711.29 17170711.40 17170711.53 0.0089 0.0037

Neptune 42299-12-13 22:48 G 17170799.34 17170799.45 17170799.58 0.0089 0.0030

Neptune 42300-03-12 00:14 G 17170887.39 17170887.51 17170887.64 0.0089 0.0022

Neptune 42300-06-08 01:26 G 17170975.44 17170975.56 17170975.69 0.0089 0.0015

Neptune 42300-09-04 02:53 G 17171063.49 17171063.62 17171063.75 0.0089 0.0007

Neptune 42300-12-01 04:05 G 17171151.54 17171151.67 17171151.80 0.0089 0.0002

Neptune 42301-02-27 05:17 G 17171239.59 17171239.72 17171239.86 0.0089 0.0009

Neptune 42301-05-26 06:43 G 17171327.65 17171327.78 17171327.91 0.0089 0.0016

Neptune 42301-08-22 07:55 G 17171415.70 17171415.83 17171415.96 0.0089 0.0023

Neptune 42301-11-18 09:07 G 17171503.76 17171503.88 17171504.01 0.0089 0.0031

Neptune 42302-02-14 10:19 G 17171591.82 17171591.93 17171592.06 0.0089 0.0039

Neptune 42302-05-13 11:46 G 17171679.88 17171679.99 17171680.10 0.0089 0.0046

Neptune 42302-08-09 12:58 G 17171767.94 17171768.04 17171768.15 0.0089 0.0054

Neptune 42302-11-05 14:24 G 17171856.00 17171856.10 17171856.19 0.0089 0.0061

Neptune 42303-02-01 15:22 G 17171944.07 17171944.14 17171944.23 0.0089 0.0069

Neptune 42303-04-30 16:34 G 17172032.14 17172032.19 17172032.27 0.0089 0.0077

Neptune 42303-07-27 18:00 G 17172120.22 17172120.25 17172120.30 0.0089 0.0084

Saturn 42305-09-24 21:22 G 17172910.33 17172910.39 17172910.46 0.0290 0.0243

Jupiter 42305-11-09 19:26 G 17172956.13 17172956.31 17172956.50 0.0508 0.0093

Saturn 42305-12-22 08:38 G 17172998.74 17172998.86 17172998.99 0.0289 0.0091

Saturn 42306-03-20 19:55 G 17173087.21 17173087.33 17173087.46 0.0288 0.0061

Saturn 42306-06-17 07:12 G 17173175.71 17173175.80 17173175.89 0.0286 0.0210

Moon 42307-08-28 18:00 G 17173613.15 17173613.25 17173613.35 0.2655 0.0989

Earth 42307-08-28 18:29 G 17173613.17 17173613.27 17173613.37 0.2652 0.1015 *

Jupiter 42311-07-06 17:31 G 17175021.11 17175021.23 17175021.35 0.0518 0.0115

Jupiter 42311-10-03 21:22 G 17175110.35 17175110.39 17175110.44 0.0516 0.0471

Mars 42311-12-30 12:29 G 17175197.94 17175198.02 17175198.11 0.1942 0.1191

Pluto 42314-01-06 12:14 G 17175935.93 17175936.01 17175936.11 0.0075 0.0066

Pluto 42314-04-04 14:53 G 17176023.98 17176024.12 17176024.28 0.0075 0.0046

Pluto 42314-07-01 17:31 G 17176112.05 17176112.23 17176112.42 0.0075 0.0026

Earth 42314-08-21 20:24 G 17176163.31 17176163.35 17176163.39 0.2654 0.2432

Moon 42314-08-21 20:24 G 17176163.32 17176163.35 17176163.39 0.2647 0.2456 *

Pluto 42314-09-27 20:10 G 17176200.15 17176200.34 17176200.54 0.0075 0.0006

Pluto 42314-12-24 22:34 G 17176288.25 17176288.44 17176288.64 0.0075 0.0014

Pluto 42315-03-23 00:43 G 17176376.38 17176376.53 17176376.73 0.0075 0.0034

Pluto 42315-06-19 03:36 G 17176464.52 17176464.65 17176464.79 0.0074 0.0053

Pluto 42315-09-15 05:46 G 17176552.72 17176552.74 17176552.80 0.0074 0.0072

Mars 42316-09-12 06:00 G 17176915.63 17176915.75 17176915.88 0.1592 0.1042

Jupiter 42317-08-28 15:22 G 17177265.95 17177266.14 17177266.32 0.0508 0.0128

Moon 42320-08-30 11:17 G 17178363.91 17178363.97 17178364.03 0.2658 0.2169

Earth 42320-08-30 11:31 G 17178363.92 17178363.98 17178364.03 0.2652 0.2247 *

Mars 42321-05-21 20:38 G 17178628.25 17178628.36 17178628.48 0.1942 0.0287

Saturn 42321-12-30 10:19 G 17178850.85 17178850.93 17178851.02 0.0273 0.0242

Saturn 42322-03-29 09:50 G 17178939.72 17178939.91 17178940.10 0.0275 0.0045

Saturn 42322-06-26 09:07 G 17179028.73 17179028.88 17179029.04 0.0276 0.0154

Jupiter 42323-04-24 22:05 G 17179331.31 17179331.42 17179331.52 0.0518 0.0268

Jupiter 42323-07-23 01:55 G 17179420.48 17179420.58 17179420.68 0.0517 0.0320

Moon 42324-02-26 22:48 G 17179639.28 17179639.45 17179639.61 0.2680 0.0083

Earth 42324-02-27 00:43 G 17179639.37 17179639.53 17179639.70 0.2679 0.0242 *

Venus 42324-07-11 09:22 G 17179774.82 17179774.89 17179774.96 0.3690 0.2704

Mars 42326-02-02 07:55 G 17180345.66 17180345.83 17180346.00 0.1592 0.0315

Moon 42327-08-24 12:58 G 17180913.95 17180914.04 17180914.14 0.2648 0.1237

Earth 42327-08-24 13:26 G 17180913.96 17180914.06 17180914.15 0.2653 0.1203 *

Jupiter 42329-06-16 10:34 G 17181575.81 17181575.94 17181576.08 0.0507 0.0351

Venus 42330-01-25 00:43 G 17181798.43 17181798.53 17181798.63 0.3689 0.0661

Mars 42330-10-12 05:02 G 17182058.66 17182058.71 17182058.75 0.1942 0.1746

Uranus 42334-04-13 18:14 G 17183338.18 17183338.26 17183338.37 0.0137 0.0120

Uranus 42334-07-11 01:55 G 17183426.45 17183426.58 17183426.74 0.0137 0.0092

Uranus 42334-10-07 10:05 G 17183514.75 17183514.92 17183515.09 0.0136 0.0063

Uranus 42335-01-03 17:46 G 17183603.05 17183603.24 17183603.43 0.0136 0.0035

Jupiter 42335-02-11 02:53 G 17183641.54 17183641.62 17183641.69 0.0519 0.0411

Saturn 42335-02-12 00:43 G 17183642.50 17183642.53 17183642.57 0.0290 0.0274

Uranus 42335-04-02 01:12 G 17183691.36 17183691.55 17183691.75 0.0136 0.0008

Jupiter 42335-05-11 06:43 G 17183730.67 17183730.78 17183730.90 0.0517 0.0179

Saturn 42335-05-11 12:00 G 17183730.89 17183731.00 17183731.12 0.0289 0.0122 *

Uranus 42335-06-29 08:53 G 17183779.68 17183779.87 17183780.06 0.0136 0.0021

Saturn 42335-08-07 23:17 G 17183819.35 17183819.47 17183819.60 0.0287 0.0031

Venus 42335-08-10 16:19 G 17183822.09 17183822.18 17183822.28 0.3689 0.1433

Uranus 42335-09-25 16:19 G 17183868.00 17183868.18 17183868.37 0.0136 0.0049

Saturn 42335-11-04 10:34 G 17183907.84 17183907.94 17183908.04 0.0286 0.0179

Uranus 42335-12-22 23:46 G 17183956.34 17183956.49 17183956.66 0.0136 0.0076

Uranus 42336-03-20 07:26 G 17184044.69 17184044.81 17184044.93 0.0136 0.0103

Uranus 42336-06-16 14:24 G 17184133.07 17184133.10 17184133.17 0.0136 0.0131

Moon 42340-08-26 05:46 G 17185664.63 17185664.74 17185664.84 0.2652 0.0121

Earth 42340-08-26 06:14 G 17185664.66 17185664.76 17185664.87 0.2653 0.0088 *

Venus 42341-02-23 07:55 G 17185845.81 17185845.83 17185845.86 0.3688 0.3542

Jupiter 42341-07-03 19:41 G 17185976.16 17185976.32 17185976.47 0.0508 0.0285

Jupiter 42347-02-27 11:31 G 17188040.86 17188040.98 17188041.11 0.0518 0.0035

Mars 42351-06-30 12:29 G 17189624.94 17189625.02 17189625.10 0.1942 0.1364

Saturn 42351-08-16 10:05 G 17189671.74 17189671.92 17189672.11 0.0274 0.0086

Saturn 42351-11-13 09:36 G 17189760.73 17189760.90 17189761.08 0.0275 0.0113

Jupiter 42353-04-21 15:36 G 17190285.96 17190286.15 17190286.34 0.0508 0.0067

Moon 42353-08-28 22:48 G 17190415.35 17190415.45 17190415.55 0.2657 0.1161

Earth 42353-08-28 23:17 G 17190415.38 17190415.47 17190415.56 0.2652 0.1263 *

Mars 42356-03-13 06:58 G 17191342.69 17191342.79 17191342.89 0.1592 0.1267

Venus 42356-03-19 16:34 G 17191349.03 17191349.19 17191349.35 0.3681 0.0117

Moon 42357-02-23 19:41 G 17191690.29 17191690.32 17191690.35 0.2675 0.2621

Earth 42357-02-23 21:22 G 17191690.32 17191690.39 17191690.46 0.2678 0.2410 *

Jupiter 42358-12-16 15:50 G 17192351.03 17192351.16 17192351.28 0.0518 0.0124

Jupiter 42359-03-15 19:41 G 17192440.27 17192440.32 17192440.37 0.0516 0.0463

Moon 42360-08-22 01:12 G 17192965.49 17192965.55 17192965.61 0.2647 0.2129

Earth 42360-08-22 01:12 G 17192965.49 17192965.55 17192965.61 0.2654 0.2189 *

Mars 42360-11-19 20:38 G 17193055.25 17193055.36 17193055.48 0.1942 0.0136

Saturn 42364-09-27 15:36 G 17194463.04 17194463.15 17194463.26 0.0289 0.0153

Saturn 42364-12-25 02:53 G 17194551.49 17194551.62 17194551.74 0.0288 0.0009

Jupiter 42365-02-07 12:00 G 17194595.82 17194596.00 17194596.18 0.0508 0.0144

Saturn 42365-03-23 13:55 G 17194639.97 17194640.08 17194640.19 0.0287 0.0149

Mars 42365-08-03 08:38 G 17194772.69 17194772.86 17194773.03 0.1592 0.0093

Moon 42366-08-31 16:05 G 17195166.14 17195166.17 17195166.20 0.2658 0.2536

Earth 42366-08-31 16:05 G 17195166.14 17195166.17 17195166.21 0.2651 0.2491 *

Moon 42370-02-27 05:46 G 17196441.58 17196441.74 17196441.91 0.2681 0.0543

Earth 42370-02-27 07:55 G 17196441.67 17196441.83 17196441.98 0.2679 0.0840 *

Mars 42370-04-12 05:02 G 17196485.64 17196485.71 17196485.77 0.1942 0.1575

Jupiter 42370-10-04 20:10 G 17196661.24 17196661.34 17196661.45 0.0518 0.0274

Jupiter 42371-01-02 00:00 G 17196750.41 17196750.50 17196750.60 0.0516 0.0314

Moon 42373-08-24 17:31 G 17197716.13 17197716.23 17197716.33 0.2649 0.1060

Earth 42373-08-24 18:00 G 17197716.15 17197716.25 17197716.35 0.2653 0.0956 *

Mars 42374-12-24 10:19 G 17198202.86 17198202.93 17198202.99 0.1592 0.1460

Jupiter 42376-11-26 07:41 G 17198905.69 17198905.82 17198905.95 0.0507 0.0363

Uranus 42377-09-29 22:05 G 17199213.39 17199213.42 17199213.47 0.0141 0.0134

Uranus 42377-12-27 01:41 G 17199301.49 17199301.57 17199301.65 0.0141 0.0112

Uranus 42378-03-25 05:02 G 17199389.61 17199389.71 17199389.81 0.0142 0.0092

Uranus 42378-06-21 08:24 G 17199477.74 17199477.85 17199477.96 0.0142 0.0071

Uranus 42378-09-17 11:46 G 17199565.87 17199565.99 17199566.11 0.0142 0.0050

Uranus 42378-12-14 15:07 G 17199654.00 17199654.13 17199654.26 0.0142 0.0029

Uranus 42379-03-12 18:29 G 17199742.14 17199742.27 17199742.40 0.0142 0.0009

Uranus 42379-06-08 21:50 G 17199830.28 17199830.41 17199830.55 0.0142 0.0014

Uranus 42379-09-05 01:26 G 17199918.43 17199918.56 17199918.69 0.0142 0.0034

Uranus 42379-12-02 04:48 G 17200006.58 17200006.70 17200006.82 0.0142 0.0056

Uranus 42380-02-28 08:10 G 17200094.74 17200094.84 17200094.96 0.0142 0.0078

Uranus 42380-05-26 11:46 G 17200182.90 17200182.99 17200183.08 0.0142 0.0099

Uranus 42380-08-22 15:07 G 17200271.07 17200271.13 17200271.20 0.0143 0.0121

Uranus 42380-11-18 18:43 G 17200359.28 17200359.28 17200359.29 0.0143 0.0142

Saturn 42381-01-02 10:19 G 17200403.77 17200403.93 17200404.11 0.0274 0.0128

Venus 42381-02-15 06:43 G 17200447.69 17200447.78 17200447.86 0.3689 0.1966

Saturn 42381-04-01 09:50 G 17200492.73 17200492.91 17200493.10 0.0275 0.0071

Saturn 42381-06-29 09:22 G 17200581.86 17200581.89 17200581.92 0.0276 0.0271

Neptune 42382-06-13 03:07 G 17200930.63 17200930.63 17200930.63 0.0089 0.0089

Jupiter 42382-07-24 00:29 G 17200971.45 17200971.52 17200971.59 0.0519 0.0428

Neptune 42382-09-09 06:14 G 17201018.69 17201018.76 17201018.88 0.0089 0.0078

Jupiter 42382-10-21 04:34 G 17201060.57 17201060.69 17201060.81 0.0517 0.0162

Neptune 42382-12-06 10:34 G 17201106.81 17201106.94 17201107.07 0.0089 0.0066

Neptune 42383-03-04 13:55 G 17201194.94 17201195.08 17201195.25 0.0089 0.0055

Neptune 42383-05-31 17:46 G 17201283.08 17201283.24 17201283.42 0.0089 0.0044

Neptune 42383-08-27 21:22 G 17201371.22 17201371.39 17201371.59 0.0089 0.0033

Neptune 42383-11-24 01:26 G 17201459.37 17201459.56 17201459.75 0.0089 0.0021

Neptune 42384-02-20 05:02 G 17201547.52 17201547.71 17201547.91 0.0089 0.0010

Neptune 42384-05-18 08:53 G 17201635.67 17201635.87 17201636.06 0.0089 0.0002

Neptune 42384-08-14 12:29 G 17201723.83 17201724.02 17201724.22 0.0089 0.0013

Neptune 42384-11-10 16:05 G 17201811.99 17201812.17 17201812.37 0.0089 0.0024

Neptune 42385-02-06 19:55 G 17201900.15 17201900.33 17201900.51 0.0089 0.0035

Neptune 42385-05-05 23:17 G 17201988.32 17201988.47 17201988.65 0.0089 0.0047

Neptune 42385-08-02 02:53 G 17202076.49 17202076.62 17202076.79 0.0089 0.0058

Neptune 42385-10-29 06:43 G 17202164.67 17202164.78 17202164.92 0.0089 0.0069

Neptune 42386-01-25 10:19 G 17202252.86 17202252.93 17202253.03 0.0089 0.0080

Moon 42386-08-27 10:19 G 17202466.83 17202466.93 17202467.04 0.2652 0.0193

Earth 42386-08-27 11:02 G 17202466.85 17202466.96 17202467.07 0.2653 0.0277 *

Venus 42386-08-31 22:19 G 17202471.32 17202471.43 17202471.53 0.3689 0.0163

Jupiter 42388-12-13 17:31 G 17203306.08 17203306.23 17203306.39 0.0508 0.0286

Mars 42390-12-29 12:29 G 17204051.95 17204052.02 17204052.09 0.1941 0.1512

Venus 42392-03-16 13:41 G 17204494.99 17204495.07 17204495.16 0.3688 0.2196

Saturn 42394-02-14 18:58 G 17205195.19 17205195.29 17205195.39 0.0289 0.0183

Saturn 42394-05-14 06:14 G 17205283.63 17205283.76 17205283.89 0.0288 0.0032

Jupiter 42394-08-09 09:22 G 17205370.76 17205370.89 17205371.01 0.0518 0.0019

Saturn 42394-08-10 17:17 G 17205372.11 17205372.22 17205372.34 0.0287 0.0119

Saturn 42394-11-07 04:19 G 17205460.64 17205460.68 17205460.73 0.0285 0.0267

Mars 42395-09-12 07:41 G 17205769.76 17205769.82 17205769.88 0.1592 0.1480

Moon 42399-08-30 03:36 G 17207217.56 17207217.65 17207217.74 0.2658 0.1479

Earth 42399-08-30 04:05 G 17207217.58 17207217.67 17207217.75 0.2652 0.1512 *

Mars 42400-05-20 20:38 G 17207482.25 17207482.36 17207482.48 0.1942 0.0070

Jupiter 42400-10-01 12:14 G 17207615.82 17207616.01 17207616.20 0.0508 0.0051

Moon 42403-02-25 02:38 G 17208492.50 17208492.61 17208492.72 0.2677 0.1976

Earth 42403-02-25 04:34 G 17208492.57 17208492.69 17208492.81 0.2678 0.1813 *

Mars 42405-02-01 09:22 G 17209199.72 17209199.89 17209200.06 0.1592 0.0127

Jupiter 42406-05-28 14:10 G 17209680.97 17209681.09 17209681.21 0.0518 0.0127

Moon 42406-08-23 05:46 G 17209767.67 17209767.74 17209767.81 0.2647 0.1996

Earth 42406-08-23 05:46 G 17209767.67 17209767.74 17209767.81 0.2654 0.1943 *

Jupiter 42406-08-25 18:00 G 17209770.20 17209770.25 17209770.31 0.0516 0.0461

Mars 42409-10-11 05:02 G 17210912.63 17210912.71 17210912.79 0.1941 0.1401

Saturn 42410-05-22 10:19 G 17211135.79 17211135.93 17211136.09 0.0274 0.0172

Saturn 42410-08-19 09:50 G 17211224.72 17211224.91 17211225.10 0.0275 0.0027

Saturn 42410-11-16 09:07 G 17211313.78 17211313.88 17211314.00 0.0276 0.0227

Jupiter 42412-07-20 08:10 G 17211925.66 17211925.84 17211926.02 0.0507 0.0167

Venus 42412-10-24 18:43 G 17212022.15 17212022.28 17212022.41 0.3682 0.2118

Mars 42414-06-24 11:02 G 17212629.86 17212629.96 17212630.07 0.1592 0.1235

Moon 42416-02-28 12:58 G 17213243.90 17213244.04 17213244.19 0.2681 0.1234

Earth 42416-02-28 14:53 G 17213243.98 17213244.12 17213244.26 0.2679 0.1435 *

Jupiter 42418-03-16 18:14 G 17213991.16 17213991.26 17213991.37 0.0518 0.0283

Uranus 42418-05-04 00:58 G 17214039.44 17214039.54 17214039.65 0.0137 0.0115

Jupiter 42418-06-13 22:19 G 17214080.33 17214080.43 17214080.53 0.0517 0.0305

Uranus 42418-07-31 08:38 G 17214127.72 17214127.86 17214128.02 0.0137 0.0087

Uranus 42418-10-27 16:34 G 17214216.01 17214216.19 17214216.37 0.0137 0.0058

Uranus 42419-01-24 00:14 G 17214304.32 17214304.51 17214304.70 0.0136 0.0030

Uranus 42419-04-22 07:55 G 17214392.63 17214392.83 17214393.02 0.0136 0.0003

Uranus 42419-07-19 15:22 G 17214480.95 17214481.14 17214481.34 0.0136 0.0026

Moon 42419-08-25 22:19 G 17214518.32 17214518.43 17214518.53 0.2650 0.0748

Earth 42419-08-25 22:48 G 17214518.35 17214518.45 17214518.55 0.2653 0.0711 *

Uranus 42419-10-15 22:48 G 17214569.28 17214569.45 17214569.64 0.0136 0.0054

Uranus 42420-01-12 06:29 G 17214657.62 17214657.77 17214657.93 0.0136 0.0081

Uranus 42420-04-09 13:41 G 17214745.97 17214746.07 17214746.20 0.0136 0.0109

Uranus 42420-07-06 21:22 G 17214834.39 17214834.39 17214834.40 0.0136 0.0136

Saturn 42423-07-04 22:19 G 17215927.34 17215927.43 17215927.51 0.0290 0.0217

Saturn 42423-10-01 09:22 G 17216015.77 17216015.89 17216016.02 0.0289 0.0065

Saturn 42423-12-28 20:38 G 17216104.24 17216104.36 17216104.48 0.0287 0.0086

Saturn 42424-03-26 07:41 G 17216192.76 17216192.82 17216192.90 0.0286 0.0235

Jupiter 42424-05-08 04:19 G 17216235.56 17216235.68 17216235.81 0.0507 0.0379

Jupiter 42424-08-06 18:43 G 17216326.25 17216326.28 17216326.33 0.0509 0.0495

Jupiter 42430-01-02 22:48 G 17218301.38 17218301.45 17218301.52 0.0519 0.0433

Jupiter 42430-04-02 02:38 G 17218390.49 17218390.61 17218390.73 0.0517 0.0156

Mars 42430-06-29 12:29 G 17218478.96 17218479.02 17218479.07 0.1942 0.1682

Venus 42432-03-08 12:43 G 17219096.98 17219097.03 17219097.07 0.3690 0.3269

Moon 42432-08-27 15:07 G 17219269.03 17219269.13 17219269.24 0.2654 0.0420

Earth 42432-08-27 15:50 G 17219269.05 17219269.16 17219269.26 0.2653 0.0531 *

Jupiter 42436-05-25 14:53 G 17220635.96 17220636.12 17220636.28 0.0508 0.0276

Venus 42437-09-22 04:05 G 17221120.58 17221120.67 17221120.77 0.3689 0.1219

Saturn 42439-10-09 10:05 G 17221867.81 17221867.92 17221868.04 0.0274 0.0217

Mars 42439-11-19 20:38 G 17221909.25 17221909.36 17221909.47 0.1941 0.0224

Saturn 42440-01-06 09:36 G 17221956.71 17221956.90 17221957.09 0.0275 0.0020

Saturn 42440-04-04 09:07 G 17222045.74 17222045.88 17222046.02 0.0276 0.0180

Jupiter 42442-01-19 07:12 G 17222700.67 17222700.80 17222700.92 0.0518 0.0007

Venus 42443-04-07 19:41 G 17223144.22 17223144.32 17223144.42 0.3689 0.0863

Mars 42444-08-02 10:05 G 17223626.75 17223626.92 17223627.09 0.1592 0.0340

Moon 42445-08-30 08:10 G 17224019.76 17224019.84 17224019.93 0.2658 0.1695

Earth 42445-08-30 08:38 G 17224019.78 17224019.86 17224019.94 0.2652 0.1754 *

Jupiter 42448-03-13 10:19 G 17224945.75 17224945.93 17224946.12 0.0508 0.0055

Venus 42448-10-21 11:17 G 17225167.91 17225167.97 17225168.03 0.3688 0.2964

Moon 42449-02-25 09:36 G 17225294.77 17225294.90 17225295.03 0.2678 0.1562

Earth 42449-02-25 11:31 G 17225294.84 17225294.98 17225295.13 0.2678 0.1225 *

Mars 42449-04-11 04:48 G 17225339.62 17225339.70 17225339.79 0.1942 0.1259

Moon 42452-08-23 10:19 G 17226569.85 17226569.93 17226570.01 0.2648 0.1670

Earth 42452-08-23 10:34 G 17226569.86 17226569.94 17226570.02 0.2654 0.1695 *

Saturn 42452-11-21 01:26 G 17226659.50 17226659.56 17226659.63 0.0290 0.0249

Saturn 42453-02-17 12:43 G 17226747.91 17226748.03 17226748.15 0.0288 0.0097

Saturn 42453-05-17 00:00 G 17226836.37 17226836.50 17226836.63 0.0287 0.0054

Saturn 42453-08-13 11:02 G 17226924.88 17226924.96 17226925.05 0.0286 0.0204

Jupiter 42453-11-07 12:00 G 17227010.88 17227011.00 17227011.12 0.0518 0.0142

Mars 42453-12-23 11:46 G 17227056.86 17227056.99 17227057.12 0.1592 0.1019

Jupiter 42454-02-04 15:50 G 17227100.10 17227100.16 17227100.23 0.0517 0.0447

Jupiter 42459-12-31 05:17 G 17229255.54 17229255.72 17229255.90 0.0507 0.0178

Uranus 42461-10-20 05:46 G 17229914.69 17229914.74 17229914.80 0.0141 0.0127

Uranus 42462-01-16 09:07 G 17230002.80 17230002.88 17230002.97 0.0141 0.0106

Moon 42462-02-28 20:10 G 17230046.22 17230046.34 17230046.46 0.2682 0.1809

Earth 42462-02-28 22:05 G 17230046.31 17230046.42 17230046.52 0.2679 0.2025 *

Uranus 42462-04-14 12:29 G 17230090.92 17230091.02 17230091.13 0.0142 0.0086

Uranus 42462-07-11 15:50 G 17230179.05 17230179.16 17230179.28 0.0142 0.0065

Neptune 42462-10-06 12:14 G 17230266.00 17230266.01 17230266.04 0.0089 0.0087

Uranus 42462-10-07 19:12 G 17230267.18 17230267.30 17230267.43 0.0142 0.0044

Neptune 42463-01-02 13:26 G 17230354.02 17230354.06 17230354.13 0.0089 0.0080

Uranus 42463-01-03 22:34 G 17230355.32 17230355.44 17230355.57 0.0142 0.0023

Neptune 42463-03-31 14:53 G 17230442.05 17230442.12 17230442.20 0.0089 0.0072

Uranus 42463-04-02 02:10 G 17230443.46 17230443.59 17230443.72 0.0142 0.0004

Neptune 42463-06-27 16:05 G 17230530.09 17230530.17 17230530.26 0.0089 0.0065

Uranus 42463-06-29 05:31 G 17230531.60 17230531.73 17230531.86 0.0142 0.0020

Neptune 42463-09-23 17:31 G 17230618.13 17230618.23 17230618.33 0.0089 0.0057

Uranus 42463-09-25 08:53 G 17230619.75 17230619.87 17230620.00 0.0142 0.0041

Venus 42463-11-15 11:46 G 17230670.87 17230670.99 17230671.10 0.3681 0.2454

Neptune 42463-12-20 18:29 G 17230706.17 17230706.27 17230706.39 0.0089 0.0050

Uranus 42463-12-22 12:14 G 17230707.90 17230708.01 17230708.13 0.0142 0.0063

Neptune 42464-03-17 19:55 G 17230794.22 17230794.33 17230794.45 0.0089 0.0042

Uranus 42464-03-19 15:36 G 17230796.05 17230796.15 17230796.27 0.0142 0.0084

Neptune 42464-06-13 21:07 G 17230882.27 17230882.38 17230882.51 0.0089 0.0035

Uranus 42464-06-15 19:12 G 17230884.22 17230884.30 17230884.39 0.0142 0.0106

Neptune 42464-09-09 22:34 G 17230970.32 17230970.44 17230970.57 0.0089 0.0027

Uranus 42464-09-11 22:34 G 17230972.39 17230972.44 17230972.51 0.0142 0.0128

Neptune 42464-12-06 23:46 G 17231058.37 17231058.49 17231058.62 0.0089 0.0020

Neptune 42465-03-05 01:12 G 17231146.42 17231146.55 17231146.68 0.0089 0.0012

Neptune 42465-06-01 02:24 G 17231234.47 17231234.60 17231234.73 0.0089 0.0004

Moon 42465-08-26 02:53 G 17231320.52 17231320.62 17231320.73 0.2650 0.0602

Earth 42465-08-26 03:36 G 17231320.54 17231320.65 17231320.75 0.2653 0.0469 *

Jupiter 42465-08-26 16:48 G 17231321.09 17231321.20 17231321.30 0.0519 0.0286

Neptune 42465-08-28 03:36 G 17231322.52 17231322.65 17231322.78 0.0089 0.0004

Jupiter 42465-11-23 20:38 G 17231410.26 17231410.36 17231410.47 0.0517 0.0304

Neptune 42465-11-24 05:02 G 17231410.58 17231410.71 17231410.84 0.0089 0.0011

Neptune 42466-02-20 06:14 G 17231498.63 17231498.76 17231498.89 0.0089 0.0018

Neptune 42466-05-19 07:26 G 17231586.69 17231586.81 17231586.94 0.0089 0.0026

Neptune 42466-08-15 08:38 G 17231674.74 17231674.86 17231674.99 0.0089 0.0033

Neptune 42466-11-11 09:50 G 17231762.80 17231762.91 17231763.04 0.0089 0.0041

Neptune 42467-02-07 11:02 G 17231850.86 17231850.96 17231851.08 0.0089 0.0049

Neptune 42467-05-06 12:29 G 17231938.92 17231939.02 17231939.13 0.0089 0.0056

Neptune 42467-08-02 13:41 G 17232026.99 17232027.07 17232027.17 0.0089 0.0064

Neptune 42467-10-29 15:07 G 17232115.05 17232115.13 17232115.21 0.0089 0.0071

Neptune 42468-01-25 16:05 G 17232203.13 17232203.17 17232203.24 0.0089 0.0079

Neptune 42468-04-22 17:31 G 17232291.21 17232291.23 17232291.27 0.0089 0.0086

Saturn 42469-02-25 09:36 G 17232599.86 17232599.90 17232599.94 0.0273 0.0266

Saturn 42469-05-25 09:07 G 17232688.69 17232688.88 17232689.07 0.0274 0.0068

Saturn 42469-08-22 08:24 G 17232777.69 17232777.85 17232778.03 0.0275 0.0131

Mars 42469-12-28 12:29 G 17232905.99 17232906.02 17232906.05 0.1941 0.1866

Jupiter 42471-10-19 01:12 G 17233565.43 17233565.55 17233565.67 0.0507 0.0394

Jupiter 42472-01-17 15:22 G 17233656.09 17233656.14 17233656.21 0.0509 0.0478

Pluto 42475-10-04 00:00 G 17235011.46 17235011.50 17235011.55 0.0068 0.0064

Pluto 42475-12-31 00:29 G 17235099.44 17235099.52 17235099.61 0.0068 0.0054

Pluto 42476-03-28 00:58 G 17235187.45 17235187.54 17235187.65 0.0068 0.0044

Pluto 42476-06-24 01:26 G 17235275.45 17235275.56 17235275.69 0.0069 0.0034

Pluto 42476-09-20 02:10 G 17235363.47 17235363.59 17235363.72 0.0069 0.0023

Pluto 42476-12-17 02:38 G 17235451.48 17235451.61 17235451.75 0.0069 0.0013

Pluto 42477-03-15 03:22 G 17235539.51 17235539.64 17235539.77 0.0069 0.0002

Pluto 42477-06-11 03:50 G 17235627.53 17235627.66 17235627.79 0.0069 0.0009

Jupiter 42477-06-14 21:07 G 17235631.31 17235631.38 17235631.44 0.0519 0.0440

Pluto 42477-09-07 04:19 G 17235715.56 17235715.68 17235715.81 0.0069 0.0019

Jupiter 42477-09-12 00:58 G 17235720.42 17235720.54 17235720.66 0.0517 0.0149

Pluto 42477-12-04 05:02 G 17235803.59 17235803.71 17235803.83 0.0069 0.0030

Pluto 42478-03-02 05:17 G 17235891.62 17235891.72 17235891.84 0.0069 0.0041

Pluto 42478-05-29 05:46 G 17235979.67 17235979.74 17235979.84 0.0069 0.0052

Pluto 42478-08-25 06:29 G 17236067.72 17236067.77 17236067.83 0.0070 0.0062

Moon 42478-08-28 19:55 G 17236071.23 17236071.33 17236071.43 0.2655 0.0729

Earth 42478-08-28 20:24 G 17236071.25 17236071.35 17236071.45 0.2652 0.0767 *

Mars 42479-05-20 20:38 G 17236336.25 17236336.36 17236336.47 0.1941 0.0378

Saturn 42482-04-10 04:34 G 17237391.67 17237391.69 17237391.72 0.0290 0.0285

Saturn 42482-07-07 15:50 G 17237480.05 17237480.16 17237480.28 0.0289 0.0132

Saturn 42482-10-04 03:07 G 17237568.50 17237568.63 17237568.76 0.0288 0.0022

Saturn 42482-12-31 14:24 G 17237657.00 17237657.10 17237657.20 0.0287 0.0170

Jupiter 42483-11-05 12:00 G 17237965.84 17237966.00 17237966.16 0.0509 0.0265

Mars 42484-02-01 10:48 G 17238053.79 17238053.95 17238054.11 0.1592 0.0563

Moon 42485-08-21 22:34 G 17238621.42 17238621.44 17238621.46 0.2648 0.2602

Mars 42488-10-10 05:02 G 17239766.61 17239766.71 17239766.80 0.1941 0.1076

Venus 42488-10-13 10:05 G 17239769.85 17239769.92 17239769.99 0.3690 0.2529

Jupiter 42489-07-01 05:31 G 17240030.61 17240030.73 17240030.86 0.0517 0.0012

Moon 42491-08-31 12:58 G 17240821.97 17240822.04 17240822.11 0.2657 0.1955

Earth 42491-08-31 13:26 G 17240821.99 17240822.06 17240822.13 0.2652 0.1997 *

Mars 42493-06-23 12:29 G 17241483.87 17241484.02 17241484.17 0.1592 0.0804

Venus 42494-04-29 01:26 G 17241793.46 17241793.56 17241793.67 0.3689 0.0491

Moon 42495-02-26 16:34 G 17242097.03 17242097.19 17242097.35 0.2678 0.0777

Earth 42495-02-26 18:43 G 17242097.12 17242097.28 17242097.44 0.2679 0.0633 *

Jupiter 42495-08-24 07:55 G 17242275.64 17242275.83 17242276.02 0.0508 0.0049

Moon 42498-08-24 14:53 G 17243372.03 17243372.12 17243372.21 0.2648 0.1545

Earth 42498-08-24 15:22 G 17243372.05 17243372.14 17243372.23 0.2654 0.1453 *

Saturn 42498-10-12 08:10 G 17243420.67 17243420.84 17243421.02 0.0274 0.0119

Saturn 42499-01-09 07:41 G 17243509.64 17243509.82 17243510.01 0.0275 0.0080

Venus 42499-11-12 17:02 G 17243817.12 17243817.21 17243817.30 0.3689 0.1621

Jupiter 42501-04-20 10:05 G 17244340.80 17244340.92 17244341.04 0.0518 0.0153

Jupiter 42501-07-18 13:55 G 17244430.01 17244430.08 17244430.15 0.0516 0.0435

Uranus 42502-05-25 07:12 G 17244740.69 17244740.80 17244740.92 0.0137 0.0111

Uranus 42502-08-21 14:53 G 17244828.97 17244829.12 17244829.28 0.0137 0.0083

Uranus 42502-11-17 22:34 G 17244917.27 17244917.44 17244917.63 0.0137 0.0054

Uranus 42503-02-14 06:14 G 17245005.58 17245005.76 17245005.96 0.0136 0.0026

Uranus 42503-05-13 13:55 G 17245093.89 17245094.08 17245094.28 0.0136 0.0004

Uranus 42503-08-09 21:36 G 17245182.21 17245182.40 17245182.59 0.0136 0.0030

Uranus 42503-11-06 05:02 G 17245270.54 17245270.71 17245270.89 0.0136 0.0058

Uranus 42504-02-02 12:43 G 17245358.88 17245359.03 17245359.18 0.0136 0.0085

Uranus 42504-04-30 19:55 G 17245447.24 17245447.33 17245447.45 0.0136 0.0113

Jupiter 42507-06-13 03:36 G 17246585.48 17246585.65 17246585.83 0.0507 0.0172

Moon 42508-03-02 03:36 G 17246848.58 17246848.65 17246848.72 0.2683 0.2388

Earth 42508-03-02 05:02 G 17246848.68 17246848.71 17246848.74 0.2679 0.2608 *

Moon 42511-08-28 07:41 G 17248122.71 17248122.82 17248122.92 0.2651 0.0249

Earth 42511-08-28 08:10 G 17248122.74 17248122.84 17248122.95 0.2653 0.0229 *

Saturn 42511-11-25 18:43 G 17248212.18 17248212.28 17248212.39 0.0289 0.0169

Saturn 42512-02-22 06:00 G 17248300.63 17248300.75 17248300.88 0.0288 0.0018

Saturn 42512-05-20 17:17 G 17248389.11 17248389.22 17248389.33 0.0287 0.0134

Saturn 42512-08-17 04:19 G 17248477.67 17248477.68 17248477.70 0.0285 0.0282

Jupiter 42513-02-06 14:38 G 17248651.01 17248651.11 17248651.22 0.0519 0.0298

Jupiter 42513-05-06 18:43 G 17248740.18 17248740.28 17248740.38 0.0517 0.0292

Mars 42518-11-19 20:38 G 17250763.25 17250763.36 17250763.47 0.1942 0.0559

Jupiter 42519-03-31 22:48 G 17250895.34 17250895.45 17250895.56 0.0507 0.0399

Jupiter 42519-06-30 12:58 G 17250985.98 17250986.04 17250986.11 0.0508 0.0472

Venus 42520-06-22 13:55 G 17251343.92 17251344.08 17251344.23 0.3682 0.0207

Mars 42523-08-03 11:31 G 17252480.83 17252480.98 17252481.13 0.1592 0.0784

Moon 42524-08-30 00:29 G 17252873.42 17252873.52 17252873.62 0.2656 0.0887

Earth 42524-08-30 01:12 G 17252873.45 17252873.55 17252873.65 0.2652 0.1015 *

Jupiter 42524-11-25 19:26 G 17252961.25 17252961.31 17252961.38 0.0519 0.0442

Jupiter 42525-02-22 23:31 G 17253050.36 17253050.48 17253050.60 0.0518 0.0149

Saturn 42528-03-01 06:58 G 17254152.64 17254152.79 17254152.94 0.0274 0.0174

Mars 42528-04-11 04:48 G 17254193.60 17254193.70 17254193.80 0.1941 0.0915

Saturn 42528-05-29 06:29 G 17254241.58 17254241.77 17254241.96 0.0275 0.0025

Saturn 42528-08-26 05:46 G 17254330.64 17254330.74 17254330.86 0.0276 0.0225

Jupiter 42531-04-18 09:07 G 17255295.72 17255295.88 17255296.04 0.0508 0.0257

Moon 42531-08-24 03:07 G 17255423.59 17255423.63 17255423.67 0.2648 0.2432

Earth 42531-08-24 03:07 G 17255423.59 17255423.63 17255423.67 0.2654 0.2439 *

Mars 42532-12-23 13:12 G 17255910.90 17255911.05 17255911.21 0.1592 0.0578

Jupiter 42536-12-12 03:50 G 17257360.54 17257360.66 17257360.79 0.0518 0.0019

Moon 42537-09-01 18:00 G 17257624.19 17257624.25 17257624.30 0.2658 0.2250

Earth 42537-09-01 18:00 G 17257624.20 17257624.25 17257624.31 0.2652 0.2240 *

Moon 42541-02-27 23:46 G 17258899.33 17258899.49 17258899.65 0.2679 0.0402

Earth 42541-02-28 01:41 G 17258899.41 17258899.57 17258899.74 0.2679 0.0050 *

Saturn 42541-04-13 21:36 G 17258944.32 17258944.40 17258944.49 0.0290 0.0208

Saturn 42541-07-11 08:53 G 17259032.75 17259032.87 17259033.00 0.0289 0.0055

Saturn 42541-10-07 20:10 G 17259121.22 17259121.34 17259121.46 0.0287 0.0097

Saturn 42542-01-04 07:26 G 17259209.74 17259209.81 17259209.87 0.0286 0.0246

Jupiter 42543-02-04 05:17 G 17259605.54 17259605.72 17259605.91 0.0508 0.0044

Moon 42544-08-25 19:41 G 17260174.22 17260174.32 17260174.41 0.2648 0.1224

Earth 42544-08-25 19:55 G 17260174.24 17260174.33 17260174.43 0.2654 0.1207 *

Venus 42545-05-21 07:26 G 17260442.72 17260442.81 17260442.90 0.3690 0.1786

Uranus 42545-08-14 10:05 G 17260527.91 17260527.92 17260527.93 0.0141 0.0140

Uranus 42545-11-10 13:12 G 17260616.00 17260616.05 17260616.13 0.0141 0.0121

Uranus 42546-02-06 16:48 G 17260704.11 17260704.20 17260704.29 0.0141 0.0099

Uranus 42546-05-05 20:10 G 17260792.23 17260792.34 17260792.45 0.0142 0.0079

Uranus 42546-08-01 23:31 G 17260880.36 17260880.48 17260880.60 0.0142 0.0058

Uranus 42546-10-29 02:53 G 17260968.50 17260968.62 17260968.75 0.0142 0.0037

Uranus 42547-01-25 06:14 G 17261056.63 17261056.76 17261056.89 0.0142 0.0016

Neptune 42547-03-11 00:58 G 17261101.50 17261101.54 17261101.61 0.0089 0.0085

Uranus 42547-04-23 09:50 G 17261144.77 17261144.91 17261145.04 0.0142 0.0007

Neptune 42547-06-07 04:34 G 17261189.60 17261189.69 17261189.82 0.0089 0.0074

Uranus 42547-07-20 13:12 G 17261232.92 17261233.05 17261233.18 0.0142 0.0027

Neptune 42547-09-03 08:38 G 17261277.73 17261277.86 17261278.01 0.0089 0.0062

Uranus 42547-10-16 16:34 G 17261321.07 17261321.19 17261321.31 0.0142 0.0048

Neptune 42547-11-30 12:14 G 17261365.86 17261366.01 17261366.18 0.0089 0.0051

Uranus 42548-01-12 19:55 G 17261409.22 17261409.33 17261409.45 0.0142 0.0070

Neptune 42548-02-26 16:05 G 17261454.00 17261454.17 17261454.36 0.0089 0.0040

Uranus 42548-04-09 23:17 G 17261497.38 17261497.47 17261497.58 0.0142 0.0092

Neptune 42548-05-24 19:55 G 17261542.15 17261542.33 17261542.52 0.0089 0.0028

Uranus 42548-07-07 02:53 G 17261585.55 17261585.62 17261585.70 0.0142 0.0113

Neptune 42548-08-20 23:46 G 17261630.29 17261630.49 17261630.68 0.0089 0.0017

Jupiter 42548-09-30 08:38 G 17261670.74 17261670.86 17261670.98 0.0518 0.0150

Uranus 42548-10-03 06:29 G 17261673.73 17261673.77 17261673.81 0.0142 0.0135

Neptune 42548-11-17 03:22 G 17261718.45 17261718.64 17261718.84 0.0089 0.0006

Jupiter 42548-12-28 12:29 G 17261759.96 17261760.02 17261760.09 0.0516 0.0436

Neptune 42549-02-13 07:12 G 17261806.60 17261806.80 17261807.00 0.0089 0.0006

Neptune 42549-05-12 10:48 G 17261894.76 17261894.95 17261895.15 0.0089 0.0017

Neptune 42549-08-08 14:38 G 17261982.92 17261983.11 17261983.29 0.0089 0.0028

Neptune 42549-11-04 18:00 G 17262071.09 17262071.25 17262071.44 0.0089 0.0040

Neptune 42550-01-31 21:36 G 17262159.25 17262159.40 17262159.58 0.0089 0.0051

Neptune 42550-04-30 01:26 G 17262247.43 17262247.56 17262247.71 0.0089 0.0062

Neptune 42550-07-27 05:02 G 17262335.61 17262335.71 17262335.83 0.0089 0.0073

Neptune 42550-10-23 08:53 G 17262423.82 17262423.87 17262423.94 0.0089 0.0084

Venus 42550-12-04 23:02 G 17262466.36 17262466.46 17262466.56 0.3689 0.0304

Jupiter 42554-11-23 01:26 G 17263915.39 17263915.56 17263915.74 0.0508 0.0173

Venus 42556-06-19 14:24 G 17264490.03 17264490.10 17264490.18 0.3689 0.2383

Saturn 42557-07-19 05:02 G 17264884.62 17264884.71 17264884.83 0.0273 0.0230

Moon 42557-08-28 12:14 G 17264924.91 17264925.01 17264925.12 0.2652 0.0135

Earth 42557-08-28 12:58 G 17264924.93 17264925.04 17264925.15 0.2653 0.0039 *

Saturn 42557-10-16 04:48 G 17264973.51 17264973.70 17264973.89 0.0274 0.0032

Saturn 42558-01-13 04:05 G 17265062.53 17265062.67 17265062.83 0.0275 0.0167

Mars 42558-05-20 20:38 G 17265190.25 17265190.36 17265190.46 0.1941 0.0714

Jupiter 42560-07-19 13:12 G 17265980.94 17265981.05 17265981.15 0.0519 0.0303

Jupiter 42560-10-16 17:02 G 17266070.11 17266070.21 17266070.31 0.0517 0.0286

Pluto 42562-05-01 18:58 G 17266632.18 17266632.29 17266632.42 0.0075 0.0059

Pluto 42562-07-28 21:36 G 17266720.24 17266720.40 17266720.57 0.0075 0.0039

Pluto 42562-10-25 00:14 G 17266808.32 17266808.51 17266808.70 0.0075 0.0019

Pluto 42563-01-21 02:38 G 17266896.42 17266896.61 17266896.81 0.0075 0.0002

Mars 42563-02-01 12:14 G 17266907.88 17266908.01 17266908.14 0.1592 0.0998

Pluto 42563-04-19 05:02 G 17266984.53 17266984.71 17266984.91 0.0075 0.0020

Pluto 42563-07-16 07:41 G 17267072.66 17267072.82 17267072.99 0.0075 0.0040

Pluto 42563-10-12 09:50 G 17267160.81 17267160.91 17267161.04 0.0074 0.0060

Jupiter 42566-09-10 21:22 G 17268225.28 17268225.39 17268225.52 0.0507 0.0389

Jupiter 42566-12-10 12:00 G 17268315.94 17268316.00 17268316.05 0.0509 0.0484

Mars 42567-10-11 04:48 G 17268620.60 17268620.70 17268620.80 0.1941 0.0758

Moon 42570-08-31 05:17 G 17269675.63 17269675.72 17269675.81 0.2656 0.1237

Earth 42570-08-31 05:46 G 17269675.65 17269675.74 17269675.84 0.2652 0.1258 *

Saturn 42570-09-01 00:00 G 17269676.44 17269676.50 17269676.57 0.0290 0.0250

Saturn 42570-11-28 11:31 G 17269764.86 17269764.98 17269765.10 0.0289 0.0097

Saturn 42571-02-24 22:48 G 17269853.32 17269853.45 17269853.57 0.0288 0.0056

Saturn 42571-05-24 09:50 G 17269941.82 17269941.91 17269942.00 0.0286 0.0205

Jupiter 42572-05-07 17:46 G 17270291.18 17270291.24 17270291.31 0.0519 0.0448

Mars 42572-06-23 13:55 G 17270337.91 17270338.08 17270338.25 0.1592 0.0364

Jupiter 42572-08-04 21:50 G 17270380.29 17270380.41 17270380.53 0.0517 0.0143

Venus 42577-01-27 15:50 G 17272017.03 17272017.16 17272017.29 0.3682 0.2021

Moon 42577-08-24 07:41 G 17272225.76 17272225.82 17272225.88 0.2648 0.2193

Earth 42577-08-24 07:41 G 17272225.76 17272225.82 17272225.88 0.2654 0.2190 *

Jupiter 42578-09-28 07:12 G 17272625.64 17272625.80 17272625.97 0.0508 0.0259

Moon 42583-09-02 22:48 G 17274426.41 17274426.45 17274426.49 0.2658 0.2447

Earth 42583-09-02 22:48 G 17274426.42 17274426.45 17274426.48 0.2652 0.2484 *

Jupiter 42584-05-24 02:38 G 17274690.49 17274690.61 17274690.74 0.0518 0.0014

Uranus 42586-03-18 06:14 G 17275353.73 17275353.76 17275353.82 0.0137 0.0133

Uranus 42586-06-14 14:10 G 17275441.97 17275442.09 17275442.22 0.0137 0.0104

Uranus 42586-09-10 21:50 G 17275530.26 17275530.41 17275530.58 0.0137 0.0076

Uranus 42586-12-08 05:31 G 17275618.56 17275618.73 17275618.92 0.0136 0.0048

Moon 42587-03-01 06:58 G 17275701.63 17275701.79 17275701.95 0.2680 0.0434

Earth 42587-03-01 08:53 G 17275701.70 17275701.87 17275702.03 0.2679 0.0547 *

Saturn 42587-03-05 02:53 G 17275705.43 17275705.62 17275705.80 0.0274 0.0093

Uranus 42587-03-06 13:26 G 17275706.87 17275707.06 17275707.25 0.0136 0.0019

Saturn 42587-06-02 02:10 G 17275794.42 17275794.59 17275794.77 0.0275 0.0106

Uranus 42587-06-02 21:07 G 17275795.19 17275795.38 17275795.57 0.0136 0.0009

Uranus 42587-08-30 04:34 G 17275883.51 17275883.69 17275883.88 0.0136 0.0037

Uranus 42587-11-26 12:00 G 17275971.84 17275972.00 17275972.18 0.0136 0.0065

Uranus 42588-02-22 19:41 G 17276060.19 17276060.32 17276060.47 0.0136 0.0092

Uranus 42588-05-21 03:07 G 17276148.55 17276148.63 17276148.73 0.0136 0.0120

Jupiter 42590-07-17 03:22 G 17276935.46 17276935.64 17276935.83 0.0508 0.0045

Moon 42590-08-27 00:14 G 17276976.41 17276976.51 17276976.61 0.2648 0.1050

Earth 42590-08-27 00:43 G 17276976.43 17276976.53 17276976.63 0.2654 0.0960 *

Jupiter 42596-03-12 07:12 G 17279000.68 17279000.80 17279000.92 0.0518 0.0151

Jupiter 42596-06-09 11:17 G 17279089.90 17279089.97 17279090.03 0.0516 0.0437

Venus 42596-06-11 13:26 G 17279092.01 17279092.06 17279092.11 0.3690 0.3097

Mars 42597-11-18 20:38 G 17279617.26 17279617.36 17279617.46 0.1941 0.0882

Saturn 42600-04-17 13:55 G 17280496.97 17280497.08 17280497.19 0.0290 0.0140

Saturn 42600-07-15 01:12 G 17280585.42 17280585.55 17280585.68 0.0288 0.0012

Saturn 42600-10-11 12:14 G 17280673.91 17280674.01 17280674.12 0.0287 0.0163

Venus 42601-12-27 04:48 G 17281115.61 17281115.70 17281115.80 0.3689 0.1042

Jupiter 42602-05-05 23:31 G 17281245.30 17281245.48 17281245.66 0.0508 0.0173

Mars 42602-08-03 12:58 G 17281334.93 17281335.04 17281335.15 0.1592 0.1219

Moon 42603-08-30 17:02 G 17281727.10 17281727.21 17281727.31 0.2654 0.0234

Earth 42603-08-30 17:31 G 17281727.13 17281727.23 17281727.34 0.2653 0.0294 *

Mars 42607-04-12 04:48 G 17283047.59 17283047.70 17283047.81 0.1941 0.0586

Venus 42607-07-12 20:24 G 17283139.25 17283139.35 17283139.44 0.3689 0.1041

Jupiter 42607-12-31 12:00 G 17283310.90 17283311.00 17283311.10 0.0518 0.0295

Jupiter 42608-03-29 15:50 G 17283400.06 17283400.16 17283400.27 0.0516 0.0293

Mars 42611-12-24 14:38 G 17284764.94 17284765.11 17284765.28 0.1592 0.0148

Venus 42613-01-25 12:00 G 17285162.94 17285163.00 17285163.05 0.3688 0.3152

Jupiter 42614-02-21 19:41 G 17285555.21 17285555.32 17285555.45 0.0507 0.0385

Jupiter 42614-05-23 10:19 G 17285645.89 17285645.93 17285645.98 0.0509 0.0491

Saturn 42616-07-23 00:29 G 17286437.36 17286437.52 17286437.68 0.0273 0.0155

Moon 42616-09-01 10:05 G 17286477.83 17286477.92 17286478.01 0.2656 0.1383

Earth 42616-09-01 10:34 G 17286477.85 17286477.94 17286478.03 0.2652 0.1500 *

Saturn 42616-10-19 23:46 G 17286526.31 17286526.49 17286526.69 0.0274 0.0044

Saturn 42617-01-16 23:17 G 17286615.38 17286615.47 17286615.56 0.0276 0.0243

Jupiter 42619-10-19 16:34 G 17287621.13 17287621.19 17287621.25 0.0519 0.0446

Jupiter 42620-01-16 20:24 G 17287710.23 17287710.35 17287710.47 0.0517 0.0143

Moon 42620-02-28 03:36 G 17287752.56 17287752.65 17287752.73 0.2676 0.2281

Earth 42620-02-28 05:31 G 17287752.63 17287752.73 17287752.83 0.2678 0.2109 *

Mars 42621-05-15 16:19 G 17288195.13 17288195.18 17288195.23 0.1593 0.1515

Moon 42623-08-26 12:14 G 17289027.94 17289028.01 17289028.08 0.2647 0.1935

Earth 42623-08-26 12:29 G 17289027.95 17289028.02 17289028.09 0.2654 0.1941 *

Jupiter 42626-03-11 06:29 G 17289955.61 17289955.77 17289955.93 0.0508 0.0275

Neptune 42627-07-05 11:46 G 17290436.97 17290436.99 17290437.04 0.0089 0.0085

Neptune 42627-10-01 13:12 G 17290524.99 17290525.05 17290525.12 0.0089 0.0077

Neptune 42627-12-28 14:24 G 17290613.03 17290613.10 17290613.19 0.0089 0.0070

Venus 42628-02-19 08:38 G 17290665.75 17290665.86 17290665.97 0.3681 0.2593

Neptune 42628-03-25 15:50 G 17290701.07 17290701.16 17290701.26 0.0089 0.0062

Neptune 42628-06-21 17:02 G 17290789.11 17290789.21 17290789.32 0.0089 0.0055

Neptune 42628-09-17 18:29 G 17290877.16 17290877.27 17290877.38 0.0089 0.0047

Neptune 42628-12-14 19:26 G 17290965.20 17290965.31 17290965.44 0.0089 0.0040

Neptune 42629-03-12 20:53 G 17291053.25 17291053.37 17291053.50 0.0089 0.0032

Neptune 42629-06-08 22:05 G 17291141.30 17291141.42 17291141.55 0.0089 0.0025

Saturn 42629-09-04 15:50 G 17291229.07 17291229.16 17291229.26 0.0290 0.0189

Uranus 42629-09-04 17:46 G 17291229.20 17291229.24 17291229.28 0.0141 0.0133 *

Neptune 42629-09-04 23:31 G 17291229.35 17291229.48 17291229.61 0.0089 0.0017

Uranus 42629-12-01 21:07 G 17291317.30 17291317.38 17291317.46 0.0141 0.0113

Neptune 42629-12-02 00:43 G 17291317.40 17291317.53 17291317.66 0.0089 0.0010 *

Saturn 42629-12-02 03:07 G 17291317.51 17291317.63 17291317.76 0.0289 0.0037 *

Uranus 42630-02-28 00:14 G 17291405.42 17291405.51 17291405.62 0.0141 0.0093

Neptune 42630-02-28 01:55 G 17291405.45 17291405.58 17291405.72 0.0089 0.0004 *

Saturn 42630-02-28 14:24 G 17291405.99 17291406.10 17291406.22 0.0287 0.0116

Neptune 42630-05-27 03:22 G 17291493.51 17291493.64 17291493.77 0.0089 0.0006

Uranus 42630-05-27 03:50 G 17291493.55 17291493.66 17291493.77 0.0142 0.0071 *

Saturn 42630-05-28 01:41 G 17291494.52 17291494.57 17291494.62 0.0286 0.0265

Neptune 42630-08-23 04:34 G 17291581.56 17291581.69 17291581.82 0.0089 0.0013

Uranus 42630-08-23 07:12 G 17291581.68 17291581.80 17291581.92 0.0142 0.0050 *

Neptune 42630-11-19 05:46 G 17291669.62 17291669.74 17291669.87 0.0089 0.0021

Uranus 42630-11-19 10:34 G 17291669.82 17291669.94 17291670.07 0.0142 0.0029 *

Neptune 42631-02-15 06:58 G 17291757.67 17291757.79 17291757.92 0.0089 0.0029

Uranus 42631-02-15 13:55 G 17291757.95 17291758.08 17291758.22 0.0142 0.0009

Neptune 42631-05-14 08:24 G 17291845.73 17291845.85 17291845.97 0.0089 0.0036

Uranus 42631-05-14 17:31 G 17291846.10 17291846.23 17291846.36 0.0142 0.0013

Neptune 42631-08-10 09:36 G 17291933.79 17291933.90 17291934.02 0.0089 0.0043

Uranus 42631-08-10 20:53 G 17291934.24 17291934.37 17291934.50 0.0142 0.0034

Jupiter 42631-11-05 01:12 G 17292020.43 17292020.55 17292020.68 0.0518 0.0012

Neptune 42631-11-06 10:48 G 17292021.85 17292021.95 17292022.06 0.0089 0.0051

Uranus 42631-11-07 00:14 G 17292022.39 17292022.51 17292022.63 0.0142 0.0056

Neptune 42632-02-02 12:00 G 17292109.91 17292110.00 17292110.11 0.0089 0.0059

Uranus 42632-02-03 03:36 G 17292110.55 17292110.65 17292110.77 0.0142 0.0078

Neptune 42632-04-30 13:26 G 17292197.98 17292198.06 17292198.15 0.0089 0.0066

Uranus 42632-05-01 06:58 G 17292198.71 17292198.79 17292198.89 0.0142 0.0100

Neptune 42632-07-27 14:38 G 17292286.05 17292286.11 17292286.19 0.0089 0.0074

Uranus 42632-07-28 10:34 G 17292286.88 17292286.94 17292287.01 0.0142 0.0121

Neptune 42632-10-23 16:05 G 17292374.12 17292374.17 17292374.22 0.0089 0.0081

Uranus 42632-10-24 14:10 G 17292375.09 17292375.09 17292375.09 0.0142 0.0142

Neptune 42633-01-19 17:17 G 17292462.22 17292462.22 17292462.22 0.0089 0.0089

Moon 42633-03-02 14:10 G 17292503.94 17292504.09 17292504.25 0.2682 0.0832

Earth 42633-03-02 15:50 G 17292504.01 17292504.16 17292504.31 0.2679 0.1138 *

Moon 42636-08-28 04:48 G 17293778.60 17293778.70 17293778.81 0.2650 0.0780

Earth 42636-08-28 05:31 G 17293778.62 17293778.73 17293778.83 0.2653 0.0716 *

Mars 42637-05-20 20:38 G 17294044.26 17294044.36 17294044.45 0.1942 0.1053

Jupiter 42637-12-28 01:55 G 17294265.40 17294265.58 17294265.77 0.0508 0.0055

Mars 42642-02-01 13:41 G 17295762.00 17295762.07 17295762.14 0.1592 0.1438

Jupiter 42643-08-24 06:14 G 17296330.64 17296330.76 17296330.88 0.0518 0.0144

Jupiter 42643-11-21 10:05 G 17296419.86 17296419.92 17296419.98 0.0517 0.0445

Saturn 42645-12-09 21:22 G 17297169.29 17297169.39 17297169.52 0.0273 0.0222

Saturn 42646-03-08 21:07 G 17297258.19 17297258.38 17297258.57 0.0274 0.0025

Saturn 42646-06-05 20:24 G 17297347.21 17297347.35 17297347.50 0.0275 0.0175

Mars 42646-10-11 04:48 G 17297474.59 17297474.70 17297474.81 0.1941 0.0415

Moon 42649-08-30 21:36 G 17298529.30 17298529.40 17298529.51 0.2654 0.0394

Earth 42649-08-30 22:19 G 17298529.33 17298529.43 17298529.54 0.2653 0.0517 *

Jupiter 42649-10-15 22:05 G 17298575.25 17298575.42 17298575.61 0.0507 0.0162

Mars 42651-06-24 15:22 G 17299191.97 17299192.14 17299192.31 0.1592 0.0087

Venus 42653-01-17 10:48 G 17299764.87 17299764.95 17299765.03 0.3690 0.2358

Jupiter 42655-06-12 10:48 G 17300640.85 17300640.95 17300641.06 0.0518 0.0290

Jupiter 42655-09-09 14:38 G 17300730.01 17300730.11 17300730.22 0.0517 0.0298

Mars 42656-03-02 12:58 G 17300905.02 17300905.04 17300905.06 0.1940 0.1886

Venus 42658-08-03 02:10 G 17301788.49 17301788.59 17301788.69 0.3689 0.0315

Saturn 42659-01-22 18:00 G 17301961.18 17301961.25 17301961.32 0.0291 0.0237

Saturn 42659-04-21 05:17 G 17302049.60 17302049.72 17302049.85 0.0289 0.0083

Saturn 42659-07-18 16:34 G 17302138.07 17302138.19 17302138.32 0.0288 0.0070

Saturn 42659-10-15 03:50 G 17302226.58 17302226.66 17302226.74 0.0287 0.0220

Mars 42660-11-13 17:02 G 17302622.11 17302622.21 17302622.31 0.1593 0.1293

Jupiter 42661-08-03 18:00 G 17302885.13 17302885.25 17302885.38 0.0508 0.0380

Jupiter 42661-11-02 08:38 G 17302975.82 17302975.86 17302975.90 0.0509 0.0496

Moon 42662-09-02 14:53 G 17303280.04 17303280.12 17303280.20 0.2658 0.1752

Earth 42662-09-02 15:22 G 17303280.06 17303280.14 17303280.22 0.2652 0.1743 *

Venus 42664-02-16 17:46 G 17303812.15 17303812.24 17303812.33 0.3689 0.1795

Moon 42666-02-28 10:48 G 17304554.82 17304554.95 17304555.07 0.2677 0.1774

Earth 42666-02-28 12:43 G 17304554.89 17304555.03 17304555.16 0.2678 0.1510 *

Jupiter 42667-03-31 15:36 G 17304951.09 17304951.15 17304951.22 0.0519 0.0433

Jupiter 42667-06-28 19:41 G 17305040.20 17305040.32 17305040.44 0.0517 0.0155

Moon 42669-08-26 17:02 G 17305830.13 17305830.21 17305830.29 0.2647 0.1759

Earth 42669-08-26 17:17 G 17305830.14 17305830.22 17305830.30 0.2654 0.1699 *

Uranus 42670-04-08 13:26 G 17306055.00 17306055.06 17306055.14 0.0137 0.0126

Uranus 42670-07-05 21:22 G 17306143.26 17306143.39 17306143.53 0.0137 0.0097

Uranus 42670-10-02 05:02 G 17306231.55 17306231.71 17306231.88 0.0137 0.0069

Uranus 42670-12-29 12:43 G 17306319.85 17306320.03 17306320.22 0.0136 0.0041

Uranus 42671-03-27 20:24 G 17306408.16 17306408.35 17306408.55 0.0136 0.0013

Uranus 42671-06-24 04:05 G 17306496.48 17306496.67 17306496.87 0.0136 0.0016

Uranus 42671-09-20 11:31 G 17306584.81 17306584.98 17306585.18 0.0136 0.0045

Uranus 42671-12-17 19:26 G 17306673.14 17306673.31 17306673.47 0.0136 0.0072

Uranus 42672-03-15 02:38 G 17306761.49 17306761.61 17306761.75 0.0136 0.0099

Uranus 42672-06-11 10:05 G 17306849.87 17306849.92 17306850.00 0.0136 0.0127

Jupiter 42673-08-21 05:02 G 17307285.56 17307285.71 17307285.87 0.0509 0.0287

Saturn 42675-07-26 18:14 G 17307990.08 17307990.26 17307990.45 0.0273 0.0090

Saturn 42675-10-23 17:31 G 17308079.06 17308079.23 17308079.41 0.0274 0.0108

Mars 42676-11-18 20:24 G 17308471.27 17308471.35 17308471.44 0.1941 0.1213

Moon 42679-03-03 21:22 G 17309306.26 17309306.39 17309306.52 0.2683 0.1617

Earth 42679-03-03 23:02 G 17309306.33 17309306.46 17309306.58 0.2679 0.1727 *

Jupiter 42679-04-17 00:14 G 17309350.38 17309350.51 17309350.63 0.0517 0.0010

Moon 42682-08-29 09:36 G 17310580.79 17310580.90 17310581.00 0.2651 0.0534

Earth 42682-08-29 10:05 G 17310580.82 17310580.92 17310581.03 0.2653 0.0469 *

Venus 42684-09-25 11:02 G 17311338.80 17311338.96 17311339.11 0.3681 0.0300

Jupiter 42685-06-09 01:26 G 17311595.38 17311595.56 17311595.75 0.0508 0.0073

Mars 42686-04-11 04:34 G 17311901.58 17311901.69 17311901.81 0.1941 0.0276

Saturn 42688-09-07 06:58 G 17312781.68 17312781.79 17312781.90 0.0290 0.0137

Saturn 42688-12-04 18:14 G 17312870.13 17312870.26 17312870.39 0.0289 0.0017

Saturn 42689-03-03 05:31 G 17312958.63 17312958.73 17312958.83 0.0287 0.0168

Mars 42690-12-23 16:05 G 17313619.01 17313619.17 17313619.34 0.1592 0.0296

Jupiter 42691-02-03 05:02 G 17313660.59 17313660.71 17313660.83 0.0518 0.0138

Jupiter 42691-05-03 08:53 G 17313749.81 17313749.87 17313749.93 0.0516 0.0449

Moon 42695-09-01 02:24 G 17315331.50 17315331.60 17315331.70 0.2654 0.0700

Earth 42695-09-01 03:07 G 17315331.52 17315331.63 17315331.73 0.2653 0.0766 *

Mars 42695-09-01 12:58 G 17315331.99 17315332.04 17315332.09 0.1940 0.1709

Jupiter 42697-03-27 21:22 G 17315905.21 17315905.39 17315905.57 0.0507 0.0146

Mars 42700-05-15 17:46 G 17317049.12 17317049.24 17317049.37 0.1593 0.1072

Jupiter 42702-11-23 09:50 G 17317970.81 17317970.91 17317971.02 0.0519 0.0281

Jupiter 42703-02-20 13:55 G 17318059.98 17318060.08 17318060.18 0.0517 0.0309

Venus 42704-02-09 16:48 G 17318414.19 17318414.20 17318414.21 0.3690 0.3666

Saturn 42704-12-13 15:07 G 17318721.97 17318722.13 17318722.29 0.0273 0.0160

Saturn 42705-03-12 14:24 G 17318810.91 17318811.10 17318811.29 0.0274 0.0037

Saturn 42705-06-09 13:41 G 17318899.98 17318900.07 17318900.17 0.0275 0.0236

Moon 42708-09-03 19:41 G 17320082.25 17320082.32 17320082.40 0.2658 0.1931

Earth 42708-09-03 19:55 G 17320082.26 17320082.33 17320082.40 0.2652 0.1990 *

Jupiter 42709-01-14 17:31 G 17320215.10 17320215.23 17320215.36 0.0507 0.0359

Venus 42709-08-25 08:10 G 17320437.75 17320437.84 17320437.93 0.3689 0.1612

Neptune 42711-12-07 23:31 G 17321272.41 17321272.48 17321272.59 0.0089 0.0080

Moon 42712-03-01 17:46 G 17321357.09 17321357.24 17321357.39 0.2679 0.1168

Earth 42712-03-01 19:41 G 17321357.16 17321357.32 17321357.47 0.2678 0.0922 *

Neptune 42712-03-05 03:50 G 17321360.53 17321360.66 17321360.78 0.0089 0.0068

Neptune 42712-06-01 07:12 G 17321448.66 17321448.80 17321448.96 0.0089 0.0057

Neptune 42712-08-28 11:02 G 17321536.80 17321536.96 17321537.14 0.0089 0.0046

Neptune 42712-11-24 14:38 G 17321624.94 17321625.11 17321625.31 0.0089 0.0035

Neptune 42713-02-20 18:43 G 17321713.09 17321713.28 17321713.47 0.0089 0.0023

Neptune 42713-05-19 22:19 G 17321801.24 17321801.43 17321801.63 0.0089 0.0012

Neptune 42713-08-16 02:10 G 17321889.39 17321889.59 17321889.79 0.0089 0.0000

Uranus 42713-09-26 01:12 G 17321930.50 17321930.55 17321930.60 0.0141 0.0128

Neptune 42713-11-12 05:46 G 17321977.55 17321977.74 17321977.94 0.0089 0.0011

Uranus 42713-12-23 04:19 G 17322018.61 17322018.68 17322018.77 0.0141 0.0108

Neptune 42714-02-08 09:36 G 17322065.71 17322065.90 17322066.09 0.0089 0.0022

Uranus 42714-03-21 07:41 G 17322106.73 17322106.82 17322106.93 0.0142 0.0087

Neptune 42714-05-07 12:58 G 17322153.87 17322154.04 17322154.24 0.0089 0.0034

Uranus 42714-06-17 11:17 G 17322194.85 17322194.97 17322195.08 0.0142 0.0066

Neptune 42714-08-03 16:48 G 17322242.04 17322242.20 17322242.38 0.0089 0.0045

Jupiter 42714-09-11 14:38 G 17322281.05 17322281.11 17322281.19 0.0519 0.0425

Uranus 42714-09-13 14:38 G 17322282.99 17322283.11 17322283.23 0.0142 0.0045

Neptune 42714-10-30 20:24 G 17322330.21 17322330.35 17322330.51 0.0089 0.0056

Jupiter 42714-12-09 18:43 G 17322370.16 17322370.28 17322370.40 0.0517 0.0164

Uranus 42714-12-10 18:00 G 17322371.12 17322371.25 17322371.38 0.0142 0.0024

Neptune 42715-01-27 00:14 G 17322418.39 17322418.51 17322418.64 0.0089 0.0067

Uranus 42715-03-08 21:22 G 17322459.26 17322459.39 17322459.52 0.0142 0.0004

Venus 42715-03-10 23:31 G 17322461.38 17322461.48 17322461.59 0.3689 0.0489

Neptune 42715-04-25 03:50 G 17322506.58 17322506.66 17322506.76 0.0089 0.0078

Uranus 42715-06-05 00:43 G 17322547.41 17322547.53 17322547.67 0.0142 0.0020

Moon 42715-08-28 21:36 G 17322632.31 17322632.40 17322632.49 0.2648 0.1440

Earth 42715-08-28 21:50 G 17322632.32 17322632.41 17322632.50 0.2654 0.1454 *

Uranus 42715-09-01 04:19 G 17322635.55 17322635.68 17322635.80 0.0142 0.0040

Uranus 42715-11-28 07:41 G 17322723.70 17322723.82 17322723.94 0.0142 0.0062

Uranus 42716-02-24 11:02 G 17322811.86 17322811.96 17322812.07 0.0142 0.0084

Mars 42716-05-20 20:24 G 17322898.27 17322898.35 17322898.43 0.1941 0.1370

Uranus 42716-05-22 14:24 G 17322900.02 17322900.10 17322900.20 0.0142 0.0106

Uranus 42716-08-18 18:00 G 17322988.20 17322988.25 17322988.31 0.0142 0.0127

Saturn 42718-01-26 08:38 G 17323513.76 17323513.86 17323513.96 0.0291 0.0190

Saturn 42718-04-24 19:55 G 17323602.21 17323602.33 17323602.46 0.0289 0.0036

Saturn 42718-07-22 07:12 G 17323690.69 17323690.80 17323690.92 0.0288 0.0117

Saturn 42718-10-18 18:29 G 17323779.23 17323779.27 17323779.31 0.0287 0.0267

Venus 42720-09-23 15:07 G 17324485.06 17324485.13 17324485.21 0.3689 0.2572

Jupiter 42721-02-01 03:50 G 17324615.51 17324615.66 17324615.81 0.0509 0.0295

Pluto 42724-01-29 07:41 G 17325707.78 17325707.82 17325707.89 0.0068 0.0062

Pluto 42724-04-26 08:10 G 17325795.77 17325795.84 17325795.94 0.0068 0.0052

Pluto 42724-07-23 08:53 G 17325883.77 17325883.87 17325883.98 0.0068 0.0041

Pluto 42724-10-19 09:22 G 17325971.78 17325971.89 17325972.02 0.0069 0.0031

Pluto 42725-01-15 10:05 G 17326059.80 17326059.92 17326060.05 0.0069 0.0020

Moon 42725-03-05 04:34 G 17326108.59 17326108.69 17326108.79 0.2684 0.2061

Earth 42725-03-05 06:00 G 17326108.67 17326108.75 17326108.83 0.2679 0.2324 *

Pluto 42725-04-13 10:34 G 17326147.82 17326147.94 17326148.08 0.0069 0.0010

Pluto 42725-07-10 11:17 G 17326235.84 17326235.97 17326236.10 0.0069 0.0001

Pluto 42725-10-06 11:46 G 17326323.86 17326323.99 17326324.12 0.0069 0.0011

Mars 42725-10-11 04:48 G 17326328.58 17326328.70 17326328.81 0.1941 0.0101

Pluto 42726-01-02 12:14 G 17326411.89 17326412.01 17326412.14 0.0069 0.0022

Pluto 42726-03-31 12:58 G 17326499.92 17326500.04 17326500.16 0.0069 0.0032

Pluto 42726-06-27 13:12 G 17326587.96 17326588.05 17326588.16 0.0069 0.0044

Pluto 42726-09-23 13:41 G 17326676.00 17326676.07 17326676.17 0.0069 0.0055

Jupiter 42726-09-27 23:31 G 17326680.36 17326680.48 17326680.61 0.0517 0.0027

Pluto 42726-12-20 14:24 G 17326764.06 17326764.10 17326764.15 0.0070 0.0065

Moon 42728-08-30 14:10 G 17327382.98 17327383.09 17327383.20 0.2652 0.0350

Earth 42728-08-30 14:53 G 17327383.01 17327383.12 17327383.22 0.2653 0.0226 *

Mars 42730-06-24 16:48 G 17328046.04 17328046.20 17328046.36 0.1592 0.0508

Jupiter 42732-11-20 00:29 G 17328925.33 17328925.52 17328925.70 0.0509 0.0087

Saturn 42734-05-02 11:46 G 17329453.89 17329453.99 17329454.10 0.0272 0.0228

Saturn 42734-07-30 11:02 G 17329542.77 17329542.96 17329543.16 0.0273 0.0034

Saturn 42734-10-27 10:19 G 17329631.79 17329631.93 17329632.09 0.0274 0.0166

Mars 42735-03-03 12:43 G 17329758.97 17329759.03 17329759.10 0.1940 0.1568

Jupiter 42738-07-17 04:05 G 17330990.55 17330990.67 17330990.80 0.0518 0.0128

Jupiter 42738-10-14 07:55 G 17331079.78 17331079.83 17331079.89 0.0516 0.0460

Mars 42739-11-14 18:29 G 17331476.13 17331476.27 17331476.41 0.1593 0.0857

Venus 42741-05-03 13:12 G 17332011.92 17332012.05 17332012.18 0.3682 0.1973

Moon 42741-09-02 07:12 G 17332133.70 17332133.80 17332133.90 0.2655 0.0924

Earth 42741-09-02 07:41 G 17332133.72 17332133.82 17332133.92 0.2652 0.1009 *

Jupiter 42744-09-07 20:53 G 17333235.19 17333235.37 17333235.55 0.0508 0.0124

Saturn 42747-06-15 09:50 G 17334245.85 17334245.91 17334245.98 0.0291 0.0248

Saturn 42747-09-11 21:22 G 17334334.27 17334334.39 17334334.51 0.0290 0.0093

Saturn 42747-12-09 08:38 G 17334422.74 17334422.86 17334422.99 0.0289 0.0061

Saturn 42748-03-06 19:55 G 17334511.25 17334511.33 17334511.42 0.0287 0.0212

Moon 42748-08-26 09:36 G 17334683.86 17334683.90 17334683.95 0.2647 0.2370

Earth 42748-08-26 09:36 G 17334683.86 17334683.90 17334683.94 0.2654 0.2439 *

Jupiter 42750-05-05 08:53 G 17335300.77 17335300.87 17335300.98 0.0518 0.0271

Jupiter 42750-08-02 12:58 G 17335389.94 17335390.04 17335390.14 0.0517 0.0318

Uranus 42754-04-29 20:53 G 17336756.29 17336756.37 17336756.48 0.0137 0.0118

Uranus 42754-07-27 04:48 G 17336844.56 17336844.70 17336844.85 0.0137 0.0089

Moon 42754-09-05 00:29 G 17336884.47 17336884.52 17336884.58 0.2659 0.2249

Earth 42754-09-05 00:43 G 17336884.47 17336884.53 17336884.59 0.2652 0.2234 *

Uranus 42754-10-23 12:29 G 17336932.85 17336933.02 17336933.20 0.0136 0.0061

Uranus 42755-01-19 20:10 G 17337021.16 17337021.34 17337021.54 0.0136 0.0033

Uranus 42755-04-18 04:05 G 17337109.47 17337109.67 17337109.86 0.0136 0.0004

Uranus 42755-07-15 11:46 G 17337197.80 17337197.99 17337198.18 0.0136 0.0024

Uranus 42755-10-11 19:12 G 17337286.13 17337286.30 17337286.48 0.0136 0.0052

Mars 42755-11-19 20:24 G 17337325.29 17337325.35 17337325.42 0.1941 0.1557

Uranus 42756-01-08 02:38 G 17337374.46 17337374.61 17337374.78 0.0136 0.0080

Uranus 42756-04-05 10:19 G 17337462.82 17337462.93 17337463.05 0.0136 0.0107

Jupiter 42756-06-26 16:48 G 17337545.06 17337545.20 17337545.34 0.0507 0.0341

Uranus 42756-07-02 17:31 G 17337551.23 17337551.23 17337551.27 0.0136 0.0135

Moon 42758-03-03 00:58 G 17338159.37 17338159.54 17338159.70 0.2681 0.0502

Earth 42758-03-03 02:53 G 17338159.45 17338159.62 17338159.78 0.2678 0.0337 *

Venus 42760-09-15 14:10 G 17339087.03 17339087.09 17339087.15 0.3690 0.2923

Moon 42761-08-29 02:10 G 17339434.50 17339434.59 17339434.69 0.2649 0.1314

Earth 42761-08-29 02:38 G 17339434.51 17339434.61 17339434.70 0.2654 0.1208 *

Jupiter 42762-02-21 13:55 G 17339611.00 17339611.08 17339611.15 0.0519 0.0413

Jupiter 42762-05-21 17:46 G 17339700.12 17339700.24 17339700.36 0.0517 0.0177

Saturn 42763-12-17 07:41 G 17340274.64 17340274.82 17340275.00 0.0273 0.0105

Saturn 42764-03-15 06:58 G 17340363.61 17340363.79 17340363.97 0.0274 0.0092

Mars 42765-04-11 04:34 G 17340755.58 17340755.69 17340755.81 0.1941 0.0095

Venus 42766-04-01 05:31 G 17341110.63 17341110.73 17341110.83 0.3689 0.0868

Jupiter 42768-07-14 03:36 G 17341945.51 17341945.65 17341945.79 0.0509 0.0322

Mars 42769-12-23 17:31 G 17342473.08 17342473.23 17342473.39 0.1592 0.0736

Venus 42771-10-15 21:07 G 17343134.28 17343134.38 17343134.47 0.3689 0.1224

Jupiter 42774-03-09 22:48 G 17344010.32 17344010.45 17344010.57 0.0517 0.0035

Moon 42774-08-31 18:58 G 17344185.18 17344185.29 17344185.39 0.2652 0.0117

Earth 42774-08-31 19:26 G 17344185.21 17344185.31 17344185.42 0.2653 0.0089 *

Mars 42774-09-01 12:58 G 17344185.96 17344186.04 17344186.11 0.1940 0.1398

Saturn 42777-01-28 22:48 G 17345066.34 17345066.45 17345066.56 0.0291 0.0148

Saturn 42777-04-27 10:19 G 17345154.80 17345154.93 17345155.06 0.0289 0.0010

Venus 42777-04-30 12:43 G 17345157.99 17345158.03 17345158.07 0.3688 0.3345

Saturn 42777-07-24 21:22 G 17345243.29 17345243.39 17345243.50 0.0288 0.0160

Mars 42779-05-15 19:12 G 17345903.14 17345903.30 17345903.45 0.1593 0.0640

Jupiter 42780-05-01 23:17 G 17346255.28 17346255.47 17346255.65 0.0509 0.0098

Jupiter 42785-12-27 03:50 G 17348320.53 17348320.66 17348320.78 0.0517 0.0107

Jupiter 42786-03-26 07:41 G 17348409.77 17348409.82 17348409.86 0.0516 0.0479

Moon 42787-09-03 12:00 G 17348935.91 17348936.00 17348936.10 0.2657 0.1168

Earth 42787-09-03 12:29 G 17348935.93 17348936.02 17348936.11 0.2652 0.1250 *

Neptune 42792-01-04 10:34 G 17350519.94 17350519.94 17350519.95 0.0089 0.0089

Jupiter 42792-02-18 19:55 G 17350565.14 17350565.33 17350565.51 0.0508 0.0110

Neptune 42792-04-01 12:00 G 17350607.95 17350608.00 17350608.05 0.0089 0.0081

Venus 42792-05-24 06:00 G 17350660.64 17350660.75 17350660.86 0.3681 0.2674

Neptune 42792-06-28 12:58 G 17350695.98 17350696.04 17350696.12 0.0089 0.0074

Neptune 42792-09-24 14:10 G 17350784.02 17350784.09 17350784.19 0.0089 0.0067

Neptune 42792-12-21 15:36 G 17350872.06 17350872.15 17350872.25 0.0089 0.0059

Neptune 42793-03-19 16:48 G 17350960.10 17350960.20 17350960.31 0.0089 0.0052

Saturn 42793-05-05 04:34 G 17351006.55 17351006.69 17351006.84 0.0272 0.0172

Neptune 42793-06-15 18:14 G 17351048.15 17351048.26 17351048.37 0.0089 0.0044

Saturn 42793-08-02 03:50 G 17351095.47 17351095.66 17351095.85 0.0273 0.0023

Neptune 42793-09-11 19:26 G 17351136.19 17351136.31 17351136.43 0.0089 0.0036

Saturn 42793-10-30 02:53 G 17351184.52 17351184.62 17351184.74 0.0274 0.0221

Neptune 42793-12-08 20:38 G 17351224.24 17351224.36 17351224.49 0.0089 0.0029

Neptune 42794-03-06 21:50 G 17351312.29 17351312.41 17351312.55 0.0089 0.0022

Neptune 42794-06-02 23:17 G 17351400.34 17351400.47 17351400.60 0.0089 0.0014

Moon 42794-08-27 14:24 G 17351486.04 17351486.10 17351486.16 0.2647 0.2233

Earth 42794-08-27 14:24 G 17351486.04 17351486.10 17351486.16 0.2654 0.2191 *

Neptune 42794-08-30 00:29 G 17351488.39 17351488.52 17351488.65 0.0089 0.0007

Neptune 42794-11-26 01:55 G 17351576.45 17351576.58 17351576.71 0.0089 0.0002

Neptune 42795-02-22 03:07 G 17351664.50 17351664.63 17351664.76 0.0089 0.0009

Mars 42795-05-20 20:24 G 17351752.29 17351752.35 17351752.40 0.1941 0.1702

Neptune 42795-05-21 04:19 G 17351752.55 17351752.68 17351752.81 0.0089 0.0016

Neptune 42795-08-17 05:31 G 17351840.61 17351840.73 17351840.86 0.0089 0.0024

Neptune 42795-11-13 06:43 G 17351928.66 17351928.78 17351928.91 0.0089 0.0032

Neptune 42796-02-09 08:10 G 17352016.72 17352016.84 17352016.96 0.0089 0.0039

Neptune 42796-05-07 09:07 G 17352104.78 17352104.88 17352105.00 0.0089 0.0047

Neptune 42796-08-03 10:34 G 17352192.84 17352192.94 17352193.05 0.0089 0.0054

Neptune 42796-10-30 11:46 G 17352280.91 17352280.99 17352281.09 0.0089 0.0062

Neptune 42797-01-26 13:12 G 17352368.97 17352369.05 17352369.13 0.0089 0.0069

Neptune 42797-04-24 14:24 G 17352457.04 17352457.10 17352457.17 0.0089 0.0077

Neptune 42797-07-21 15:50 G 17352545.12 17352545.16 17352545.20 0.0089 0.0084

Jupiter 42797-10-15 08:10 G 17352630.74 17352630.84 17352630.95 0.0518 0.0256

Uranus 42797-10-16 07:55 G 17352631.78 17352631.83 17352631.90 0.0141 0.0124

Uranus 42798-01-12 11:31 G 17352719.89 17352719.98 17352720.07 0.0141 0.0103

Jupiter 42798-01-12 12:14 G 17352719.91 17352720.01 17352720.10 0.0516 0.0332 *

Uranus 42798-04-10 14:53 G 17352808.02 17352808.12 17352808.23 0.0142 0.0082

Uranus 42798-07-07 18:14 G 17352896.15 17352896.26 17352896.38 0.0142 0.0062

Uranus 42798-10-03 21:36 G 17352984.28 17352984.40 17352984.53 0.0142 0.0041

Uranus 42798-12-31 00:58 G 17353072.42 17353072.54 17353072.67 0.0142 0.0020

Uranus 42799-03-29 04:34 G 17353160.56 17353160.69 17353160.82 0.0142 0.0003

Uranus 42799-06-25 07:55 G 17353248.70 17353248.83 17353248.96 0.0142 0.0023

Uranus 42799-09-21 11:17 G 17353336.85 17353336.97 17353337.10 0.0142 0.0044

Uranus 42799-12-18 14:38 G 17353425.00 17353425.11 17353425.23 0.0142 0.0066

Uranus 42800-03-15 18:14 G 17353513.16 17353513.26 17353513.36 0.0142 0.0087

Uranus 42800-06-11 21:36 G 17353601.32 17353601.40 17353601.49 0.0142 0.0109

Moon 42800-09-05 05:17 G 17353686.68 17353686.72 17353686.76 0.2658 0.2456

Earth 42800-09-05 05:31 G 17353686.69 17353686.73 17353686.76 0.2652 0.2477 *

Uranus 42800-09-08 01:12 G 17353689.50 17353689.55 17353689.60 0.0142 0.0131

Jupiter 42803-12-07 16:19 G 17354875.04 17354875.18 17354875.33 0.0508 0.0319

Moon 42804-03-03 07:55 G 17354961.67 17354961.83 17354962.00 0.2681 0.0069

Earth 42804-03-03 09:50 G 17354961.75 17354961.91 17354962.08 0.2679 0.0262 *

Mars 42804-10-10 04:34 G 17355182.58 17355182.69 17355182.80 0.1941 0.0233

Saturn 42806-06-18 00:00 G 17355798.41 17355798.50 17355798.59 0.0291 0.0209

Saturn 42806-09-14 11:17 G 17355886.85 17355886.97 17355887.10 0.0290 0.0054

Saturn 42806-12-11 22:34 G 17355975.32 17355975.44 17355975.57 0.0289 0.0100

Saturn 42807-03-10 09:50 G 17356063.85 17356063.91 17356063.97 0.0287 0.0251

Moon 42807-08-30 06:43 G 17356236.68 17356236.78 17356236.88 0.2650 0.0980

Earth 42807-08-30 07:12 G 17356236.71 17356236.80 17356236.90 0.2654 0.0968 *

Mars 42809-06-23 18:14 G 17356900.12 17356900.26 17356900.40 0.1593 0.0949

Jupiter 42809-08-03 12:58 G 17356940.97 17356941.04 17356941.12 0.0519 0.0401

Jupiter 42809-10-31 17:02 G 17357030.09 17357030.21 17357030.32 0.0517 0.0189

Pluto 42810-05-29 22:19 G 17357240.42 17357240.43 17357240.48 0.0075 0.0075

Pluto 42810-08-26 00:58 G 17357328.42 17357328.54 17357328.69 0.0075 0.0054

Pluto 42810-11-22 03:36 G 17357416.49 17357416.65 17357416.84 0.0075 0.0034

Pluto 42811-02-18 06:14 G 17357504.58 17357504.76 17357504.96 0.0075 0.0014

Pluto 42811-05-17 08:53 G 17357592.68 17357592.87 17357593.07 0.0075 0.0006

Pluto 42811-08-13 11:17 G 17357680.79 17357680.97 17357681.16 0.0075 0.0026

Pluto 42811-11-09 13:26 G 17357768.93 17357769.06 17357769.24 0.0075 0.0046

Pluto 42812-02-05 16:19 G 17357857.09 17357857.18 17357857.28 0.0074 0.0065

Mars 42814-03-02 12:58 G 17358612.95 17358613.04 17358613.12 0.1940 0.1218

Jupiter 42815-12-25 02:53 G 17359275.49 17359275.62 17359275.76 0.0509 0.0342

Venus 42817-04-22 11:31 G 17359759.90 17359759.98 17359760.06 0.3690 0.2177

Mars 42818-11-13 19:55 G 17360330.17 17360330.33 17360330.50 0.1593 0.0413

Moon 42820-08-31 23:31 G 17360987.38 17360987.48 17360987.59 0.2652 0.0141

Earth 42820-09-01 00:14 G 17360987.40 17360987.51 17360987.62 0.2653 0.0266 *

Jupiter 42821-08-19 21:50 G 17361340.29 17361340.41 17361340.54 0.0518 0.0050

Saturn 42822-09-22 00:58 G 17361738.47 17361738.54 17361738.63 0.0272 0.0245

Venus 42822-11-06 02:53 G 17361783.52 17361783.62 17361783.73 0.3689 0.0191

Saturn 42822-12-20 00:14 G 17361827.32 17361827.51 17361827.70 0.0273 0.0050

Saturn 42823-03-18 23:31 G 17361916.32 17361916.48 17361916.64 0.0274 0.0146

Jupiter 42827-10-12 23:17 G 17363585.29 17363585.47 17363585.65 0.0508 0.0128

Venus 42828-05-21 18:29 G 17363807.19 17363807.27 17363807.36 0.3689 0.1991

Jupiter 42833-06-08 02:53 G 17365650.50 17365650.62 17365650.75 0.0517 0.0095

Moon 42833-09-03 16:48 G 17365738.11 17365738.20 17365738.29 0.2658 0.1479

Earth 42833-09-03 17:17 G 17365738.13 17365738.22 17365738.30 0.2652 0.1493 *

Jupiter 42833-09-05 06:43 G 17365739.75 17365739.78 17365739.82 0.0516 0.0492

Mars 42834-11-18 20:24 G 17366179.32 17366179.35 17366179.37 0.1941 0.1872

Saturn 42835-11-05 01:12 G 17366530.51 17366530.55 17366530.60 0.0292 0.0267

Saturn 42836-02-01 12:43 G 17366618.91 17366619.03 17366619.15 0.0291 0.0111

Saturn 42836-04-30 00:00 G 17366707.38 17366707.50 17366707.63 0.0289 0.0045

Saturn 42836-07-27 11:17 G 17366795.88 17366795.97 17366796.07 0.0288 0.0197

Earth 42837-03-01 06:29 G 17367012.70 17367012.77 17367012.84 0.2678 0.2391

Uranus 42838-05-20 03:36 G 17367457.56 17367457.65 17367457.78 0.0137 0.0112

Uranus 42838-08-16 11:46 G 17367545.84 17367545.99 17367546.15 0.0137 0.0083

Uranus 42838-11-12 19:26 G 17367634.13 17367634.31 17367634.49 0.0136 0.0054

Uranus 42839-02-09 03:07 G 17367722.44 17367722.63 17367722.83 0.0136 0.0026

Uranus 42839-05-08 10:48 G 17367810.76 17367810.95 17367811.15 0.0136 0.0004

Jupiter 42839-07-31 18:43 G 17367895.09 17367895.28 17367895.46 0.0508 0.0099

Uranus 42839-08-04 18:29 G 17367899.08 17367899.27 17367899.46 0.0136 0.0030

Uranus 42839-11-01 01:55 G 17367987.41 17367987.58 17367987.77 0.0136 0.0058

Uranus 42840-01-28 09:22 G 17368075.76 17368075.89 17368076.06 0.0136 0.0086

Uranus 42840-04-25 17:02 G 17368164.12 17368164.21 17368164.33 0.0136 0.0113

Moon 42840-08-27 18:58 G 17368288.22 17368288.29 17368288.36 0.2648 0.1919

Earth 42840-08-27 19:12 G 17368288.22 17368288.30 17368288.37 0.2654 0.1952 *

Mars 42844-04-10 04:34 G 17369609.58 17369609.69 17369609.80 0.1941 0.0404

Jupiter 42845-03-27 07:55 G 17369960.72 17369960.83 17369960.94 0.0518 0.0234

Jupiter 42845-06-24 11:46 G 17370049.90 17370049.99 17370050.08 0.0516 0.0353

Mars 42848-12-22 18:58 G 17371327.18 17371327.29 17371327.40 0.1592 0.1166

Venus 42848-12-29 08:10 G 17371333.68 17371333.84 17371333.99 0.3681 0.0408

Moon 42850-03-04 15:07 G 17371763.97 17371764.13 17371764.29 0.2681 0.0720

Earth 42850-03-04 17:02 G 17371764.05 17371764.21 17371764.36 0.2679 0.0851 *

Jupiter 42851-05-19 15:07 G 17372204.99 17372205.13 17372205.29 0.0508 0.0307

Saturn 42852-05-07 21:07 G 17372559.21 17372559.38 17372559.56 0.0272 0.0117

Saturn 42852-08-04 20:24 G 17372648.17 17372648.35 17372648.54 0.0273 0.0079

Moon 42853-08-30 11:31 G 17373038.87 17373038.98 17373039.08 0.2650 0.0856

Earth 42853-08-30 12:00 G 17373038.90 17373039.00 17373039.10 0.2653 0.0718 *

Mars 42853-08-31 12:43 G 17373039.94 17373040.03 17373040.12 0.1940 0.1075

Jupiter 42857-01-13 12:29 G 17374270.94 17374271.02 17374271.11 0.0518 0.0383

Jupiter 42857-04-12 16:19 G 17374360.07 17374360.18 17374360.30 0.0516 0.0205

Mars 42858-05-14 20:38 G 17374757.19 17374757.36 17374757.53 0.1593 0.0200

Jupiter 42863-06-06 02:38 G 17376605.48 17376605.61 17376605.74 0.0509 0.0364

Saturn 42865-06-20 13:41 G 17377350.97 17377351.07 17377351.18 0.0291 0.0172

Saturn 42865-09-17 01:12 G 17377439.42 17377439.55 17377439.68 0.0290 0.0016

Saturn 42865-12-14 12:29 G 17377527.91 17377528.02 17377528.14 0.0289 0.0138

Moon 42866-09-02 04:19 G 17377789.58 17377789.68 17377789.79 0.2654 0.0481

Earth 42866-09-02 05:02 G 17377789.60 17377789.71 17377789.81 0.2653 0.0517 *

Mars 42867-10-04 22:19 G 17378187.40 17378187.43 17378187.45 0.1593 0.1573

Venus 42868-05-13 17:31 G 17378409.20 17378409.23 17378409.26 0.3690 0.3487

Jupiter 42869-01-29 21:07 G 17378670.26 17378670.38 17378670.51 0.0517 0.0061

Venus 42873-11-27 08:53 G 17380432.78 17380432.87 17380432.97 0.3689 0.1432

Jupiter 42875-03-24 22:34 G 17380915.26 17380915.44 17380915.62 0.0508 0.0148

Neptune 42876-06-06 18:29 G 17381355.24 17381355.27 17381355.33 0.0089 0.0086

Neptune 42876-09-02 22:05 G 17381443.34 17381443.42 17381443.55 0.0089 0.0075

Neptune 42876-11-30 02:24 G 17381531.46 17381531.60 17381531.74 0.0089 0.0063

Neptune 42877-02-26 06:00 G 17381619.60 17381619.75 17381619.91 0.0089 0.0052

Neptune 42877-05-25 09:36 G 17381707.74 17381707.90 17381708.09 0.0089 0.0041

Neptune 42877-08-21 13:12 G 17381795.88 17381796.05 17381796.25 0.0089 0.0030

Neptune 42877-11-17 17:17 G 17381884.03 17381884.22 17381884.42 0.0089 0.0018

Neptune 42878-02-13 21:07 G 17381972.18 17381972.38 17381972.58 0.0089 0.0007

Neptune 42878-05-13 00:43 G 17382060.34 17382060.53 17382060.73 0.0089 0.0005

Neptune 42878-08-09 04:34 G 17382148.50 17382148.69 17382148.88 0.0089 0.0016

Neptune 42878-11-05 07:55 G 17382236.66 17382236.83 17382237.03 0.0089 0.0028

Neptune 42879-02-01 11:46 G 17382324.82 17382324.99 17382325.18 0.0089 0.0039

Neptune 42879-04-30 15:36 G 17382412.99 17382413.15 17382413.32 0.0089 0.0050

Venus 42879-06-13 00:29 G 17382456.41 17382456.52 17382456.62 0.3689 0.0666

Neptune 42879-07-27 19:12 G 17382501.17 17382501.30 17382501.45 0.0089 0.0061

Moon 42879-09-04 21:36 G 17382540.31 17382540.40 17382540.48 0.2658 0.1643

Earth 42879-09-04 21:50 G 17382540.33 17382540.41 17382540.49 0.2652 0.1739 *

Neptune 42879-10-23 22:34 G 17382589.35 17382589.44 17382589.58 0.0089 0.0073

Neptune 42880-01-20 02:24 G 17382677.55 17382677.60 17382677.68 0.0089 0.0084

Jupiter 42880-11-18 02:10 G 17382980.46 17382980.59 17382980.71 0.0518 0.0084

Jupiter 42881-02-15 06:00 G 17383069.73 17383069.75 17383069.77 0.0516 0.0504

Saturn 42881-09-24 18:14 G 17383291.12 17383291.26 17383291.40 0.0272 0.0186

Uranus 42881-11-05 14:53 G 17383333.06 17383333.12 17383333.19 0.0141 0.0121

Saturn 42881-12-22 17:17 G 17383380.03 17383380.22 17383380.41 0.0273 0.0008

Uranus 42882-02-01 18:14 G 17383421.17 17383421.26 17383421.36 0.0141 0.0101

Saturn 42882-03-21 16:19 G 17383469.06 17383469.18 17383469.31 0.0274 0.0205

Uranus 42882-04-30 21:50 G 17383509.30 17383509.41 17383509.51 0.0141 0.0080

Uranus 42882-07-28 00:58 G 17383597.43 17383597.54 17383597.66 0.0142 0.0059

Uranus 42882-10-24 04:19 G 17383685.56 17383685.68 17383685.81 0.0142 0.0038

Uranus 42883-01-20 07:41 G 17383773.70 17383773.82 17383773.96 0.0142 0.0018

Moon 42883-03-02 11:31 G 17383814.87 17383814.98 17383815.09 0.2679 0.1951

Earth 42883-03-02 13:26 G 17383814.94 17383815.06 17383815.19 0.2678 0.1810 *

Uranus 42883-04-18 11:17 G 17383861.84 17383861.97 17383862.10 0.0142 0.0005

Uranus 42883-07-15 14:38 G 17383949.98 17383950.11 17383950.24 0.0142 0.0026

Mars 42883-10-10 04:34 G 17384036.58 17384036.69 17384036.80 0.1941 0.0572

Uranus 42883-10-11 18:00 G 17384038.13 17384038.25 17384038.38 0.0142 0.0047

Uranus 42884-01-07 21:22 G 17384126.28 17384126.39 17384126.51 0.0142 0.0069

Uranus 42884-04-05 00:58 G 17384214.44 17384214.54 17384214.64 0.0142 0.0090

Uranus 42884-07-02 04:19 G 17384302.60 17384302.68 17384302.77 0.0142 0.0111

Uranus 42884-09-28 07:41 G 17384390.79 17384390.82 17384390.87 0.0142 0.0133

Venus 42884-12-26 15:50 G 17384480.10 17384480.16 17384480.23 0.3689 0.2762

Moon 42886-08-28 23:31 G 17385090.40 17385090.48 17385090.56 0.2648 0.1744

Earth 42886-08-28 23:46 G 17385090.41 17385090.49 17385090.57 0.2654 0.1702 *

Jupiter 42887-01-10 18:43 G 17385225.10 17385225.28 17385225.47 0.0508 0.0068

Mars 42888-06-22 19:41 G 17385754.24 17385754.32 17385754.40 0.1592 0.1391

Jupiter 42892-09-06 07:12 G 17387290.69 17387290.80 17387290.91 0.0518 0.0222

Jupiter 42892-12-04 11:02 G 17387379.87 17387379.96 17387380.05 0.0516 0.0365

Mars 42893-03-01 12:43 G 17387466.93 17387467.03 17387467.13 0.1940 0.0903

Saturn 42894-11-07 15:07 G 17388083.05 17388083.13 17388083.21 0.0292 0.0230

Saturn 42895-02-04 02:38 G 17388171.48 17388171.61 17388171.73 0.0291 0.0073

Saturn 42895-05-03 13:55 G 17388259.96 17388260.08 17388260.21 0.0289 0.0082

Saturn 42895-07-31 01:12 G 17388348.48 17388348.55 17388348.63 0.0288 0.0235

Moon 42896-03-04 22:19 G 17388566.29 17388566.43 17388566.58 0.2682 0.1134

Earth 42896-03-05 00:00 G 17388566.36 17388566.50 17388566.64 0.2679 0.1435 *

Mars 42897-11-12 21:22 G 17389184.22 17389184.39 17389184.56 0.1593 0.0019

Jupiter 42898-10-29 13:55 G 17389534.93 17389535.08 17389535.23 0.0508 0.0297

Moon 42899-08-31 16:05 G 17389841.07 17389841.17 17389841.28 0.2650 0.0512

Earth 42899-08-31 16:48 G 17389841.09 17389841.20 17389841.30 0.2653 0.0481 *

Jupiter 42904-06-26 12:14 G 17391600.92 17391601.01 17391601.10 0.0518 0.0361

Jupiter 42904-09-23 16:05 G 17391690.06 17391690.17 17391690.28 0.0516 0.0226

Venus 42905-08-06 10:19 G 17392006.80 17392006.93 17392007.06 0.3682 0.1886

Mars 42907-04-05 22:48 G 17392614.37 17392614.45 17392614.54 0.1593 0.1359

Jupiter 42910-08-18 10:19 G 17393844.92 17393844.93 17393844.95 0.0508 0.0506

Jupiter 42910-11-17 01:12 G 17393935.43 17393935.55 17393935.68 0.0509 0.0374

Saturn 42911-02-12 15:22 G 17394023.08 17394023.14 17394023.23 0.0271 0.0249

Saturn 42911-05-12 14:38 G 17394111.92 17394112.11 17394112.30 0.0272 0.0055

Saturn 42911-08-09 13:41 G 17394200.91 17394201.07 17394201.24 0.0273 0.0140

Moon 42912-09-03 09:07 G 17394591.78 17394591.88 17394591.98 0.2656 0.0619

Earth 42912-09-03 09:36 G 17394591.80 17394591.90 17394592.01 0.2653 0.0757 *

Jupiter 42916-04-14 16:34 G 17395911.18 17395911.19 17395911.21 0.0519 0.0512

Jupiter 42916-07-12 20:38 G 17396000.23 17396000.36 17396000.48 0.0517 0.0078

Moon 42919-08-28 11:46 G 17397141.98 17397141.99 17397142.00 0.2648 0.2622

Uranus 42922-03-14 02:10 G 17398070.59 17398070.59 17398070.63 0.0137 0.0136

Uranus 42922-06-10 10:19 G 17398158.81 17398158.93 17398159.05 0.0137 0.0107

Jupiter 42922-09-04 21:50 G 17398245.23 17398245.41 17398245.59 0.0509 0.0166

Uranus 42922-09-06 18:00 G 17398247.10 17398247.25 17398247.42 0.0137 0.0079

Uranus 42922-12-04 01:55 G 17398335.40 17398335.58 17398335.76 0.0137 0.0050

Uranus 42923-03-02 09:36 G 17398423.71 17398423.90 17398424.09 0.0136 0.0022

Mars 42923-04-11 04:19 G 17398463.58 17398463.68 17398463.79 0.1941 0.0727

Uranus 42923-05-29 17:17 G 17398512.03 17398512.22 17398512.42 0.0136 0.0007

Uranus 42923-08-26 00:58 G 17398600.35 17398600.54 17398600.73 0.0136 0.0035

Uranus 42923-11-22 08:38 G 17398688.69 17398688.86 17398689.03 0.0136 0.0063

Uranus 42924-02-18 16:05 G 17398777.03 17398777.17 17398777.32 0.0136 0.0090

Saturn 42924-03-27 16:19 G 17398815.17 17398815.18 17398815.19 0.0293 0.0291

Uranus 42924-05-16 23:31 G 17398865.39 17398865.48 17398865.58 0.0136 0.0118

Saturn 42924-06-24 03:50 G 17398903.54 17398903.66 17398903.77 0.0291 0.0134

Saturn 42924-09-20 15:07 G 17398992.00 17398992.13 17398992.26 0.0290 0.0023

Saturn 42924-12-18 02:24 G 17399080.50 17399080.60 17399080.71 0.0289 0.0177

Venus 42924-12-19 14:53 G 17399082.06 17399082.12 17399082.19 0.3690 0.2748

Moon 42925-09-06 02:24 G 17399342.53 17399342.60 17399342.67 0.2658 0.1998

Earth 42925-09-06 02:38 G 17399342.54 17399342.61 17399342.68 0.2652 0.1980 *

Jupiter 42928-05-01 01:12 G 17400310.43 17400310.55 17400310.68 0.0517 0.0071

Moon 42929-03-03 18:43 G 17400617.14 17400617.28 17400617.41 0.2679 0.1552

Earth 42929-03-03 20:38 G 17400617.22 17400617.36 17400617.51 0.2678 0.1210 *

Venus 42930-07-05 06:14 G 17401105.66 17401105.76 17401105.86 0.3689 0.0694

Moon 42932-08-30 04:05 G 17401892.58 17401892.67 17401892.76 0.2649 0.1516

Earth 42932-08-30 04:34 G 17401892.60 17401892.69 17401892.78 0.2654 0.1458 *

Mars 42932-08-31 12:43 G 17401893.93 17401894.03 17401894.14 0.1940 0.0727

Jupiter 42934-06-23 18:00 G 17402555.06 17402555.25 17402555.44 0.0508 0.0051

Venus 42936-01-18 21:50 G 17403129.31 17403129.41 17403129.50 0.3689 0.1410

Mars 42937-05-14 22:05 G 17403611.25 17403611.42 17403611.59 0.1593 0.0243

Jupiter 42940-02-18 06:00 G 17404620.64 17404620.75 17404620.87 0.0518 0.0214

Jupiter 42940-05-17 10:05 G 17404709.83 17404709.92 17404710.00 0.0516 0.0374

Saturn 42940-09-28 12:00 G 17404843.83 17404844.00 17404844.17 0.0272 0.0122

Saturn 42940-12-26 11:02 G 17404932.78 17404932.96 17404933.15 0.0273 0.0073

Saturn 42941-03-25 10:05 G 17405021.90 17405021.92 17405021.96 0.0274 0.0270

Venus 42941-08-03 13:12 G 17405153.03 17405153.05 17405153.08 0.3688 0.3521

Moon 42942-03-07 05:46 G 17405368.63 17405368.74 17405368.85 0.2684 0.1977

Earth 42942-03-07 06:58 G 17405368.69 17405368.79 17405368.90 0.2679 0.2022 *

Moon 42945-09-01 20:53 G 17406643.26 17406643.37 17406643.47 0.2651 0.0348

Earth 42945-09-01 21:22 G 17406643.29 17406643.39 17406643.50 0.2653 0.0242 *

Jupiter 42946-04-11 13:55 G 17406864.93 17406865.08 17406865.25 0.0508 0.0267

Mars 42946-10-04 23:46 G 17407041.37 17407041.49 17407041.61 0.1593 0.1133

Jupiter 42951-12-07 11:17 G 17408930.88 17408930.97 17408931.06 0.0518 0.0352

Jupiter 42952-03-05 15:07 G 17409020.02 17409020.13 17409020.24 0.0516 0.0235

Saturn 42953-11-11 05:17 G 17409635.62 17409635.72 17409635.82 0.0292 0.0189

Saturn 42954-02-07 16:48 G 17409724.07 17409724.20 17409724.32 0.0291 0.0033

Saturn 42954-05-07 04:05 G 17409812.55 17409812.67 17409812.79 0.0289 0.0123

Saturn 42954-08-03 15:22 G 17409901.11 17409901.14 17409901.18 0.0288 0.0276

Venus 42956-08-27 02:53 G 17410655.53 17410655.62 17410655.72 0.3681 0.2830

Neptune 42956-10-01 10:34 G 17410690.91 17410690.94 17410690.98 0.0089 0.0085

Neptune 42956-12-28 11:46 G 17410778.93 17410778.99 17410779.06 0.0089 0.0078

Neptune 42957-03-26 12:43 G 17410866.97 17410867.03 17410867.13 0.0089 0.0071

Neptune 42957-06-22 14:10 G 17410955.01 17410955.09 17410955.19 0.0089 0.0063

Neptune 42957-09-18 15:22 G 17411043.05 17411043.14 17411043.25 0.0089 0.0056

Neptune 42957-12-15 16:48 G 17411131.10 17411131.20 17411131.32 0.0089 0.0048

Jupiter 42958-01-28 08:53 G 17411174.84 17411174.87 17411174.90 0.0508 0.0500

Neptune 42958-03-13 18:00 G 17411219.14 17411219.25 17411219.37 0.0089 0.0041

Jupiter 42958-04-28 23:31 G 17411265.36 17411265.48 17411265.61 0.0509 0.0380

Neptune 42958-06-09 19:26 G 17411307.19 17411307.31 17411307.43 0.0089 0.0033

Moon 42958-09-04 13:55 G 17411393.98 17411394.08 17411394.18 0.2657 0.0976

Earth 42958-09-04 14:24 G 17411394.00 17411394.10 17411394.20 0.2653 0.0998 *

Neptune 42958-09-05 20:38 G 17411395.24 17411395.36 17411395.49 0.0089 0.0025

Neptune 42958-12-02 21:50 G 17411483.29 17411483.41 17411483.54 0.0089 0.0018

Neptune 42959-02-28 23:17 G 17411571.34 17411571.47 17411571.60 0.0089 0.0010

Neptune 42959-05-28 00:29 G 17411659.39 17411659.52 17411659.65 0.0089 0.0003

Neptune 42959-08-24 01:41 G 17411747.44 17411747.57 17411747.70 0.0089 0.0005

Neptune 42959-11-20 02:53 G 17411835.50 17411835.62 17411835.76 0.0089 0.0013

Neptune 42960-02-16 04:19 G 17411923.55 17411923.68 17411923.81 0.0089 0.0020

Neptune 42960-05-14 05:31 G 17412011.61 17412011.73 17412011.86 0.0089 0.0027

Neptune 42960-08-10 06:43 G 17412099.66 17412099.78 17412099.90 0.0089 0.0035

Neptune 42960-11-06 07:55 G 17412187.72 17412187.83 17412187.95 0.0089 0.0042

Neptune 42961-02-02 09:22 G 17412275.78 17412275.89 17412276.00 0.0089 0.0050

Neptune 42961-05-01 10:19 G 17412363.84 17412363.93 17412364.04 0.0089 0.0058

Neptune 42961-07-28 11:46 G 17412451.91 17412451.99 17412452.08 0.0089 0.0065

Neptune 42961-10-24 12:58 G 17412539.97 17412540.04 17412540.12 0.0089 0.0073

Neptune 42962-01-20 14:24 G 17412628.05 17412628.10 17412628.16 0.0089 0.0080

Neptune 42962-04-18 15:36 G 17412716.14 17412716.15 17412716.17 0.0089 0.0088

Mars 42962-10-10 04:34 G 17412890.59 17412890.69 17412890.79 0.1941 0.0905

Jupiter 42963-09-25 16:05 G 17413241.14 17413241.17 17413241.21 0.0518 0.0493

Jupiter 42963-12-23 20:10 G 17413330.21 17413330.34 17413330.46 0.0517 0.0096

Earth 42965-08-28 16:19 G 17413944.14 17413944.18 17413944.22 0.2655 0.2440

Moon 42965-08-28 16:19 G 17413944.15 17413944.18 17413944.22 0.2648 0.2455 *

Uranus 42965-08-30 18:29 G 17413946.26 17413946.27 17413946.30 0.0141 0.0138

Uranus 42965-11-26 22:05 G 17414034.35 17414034.42 17414034.49 0.0141 0.0118

Uranus 42966-02-23 01:12 G 17414122.46 17414122.55 17414122.65 0.0141 0.0097

Uranus 42966-05-22 04:34 G 17414210.59 17414210.69 17414210.80 0.0141 0.0076

Uranus 42966-08-18 07:55 G 17414298.72 17414298.83 17414298.96 0.0142 0.0056

Uranus 42966-11-14 11:17 G 17414386.85 17414386.97 17414387.10 0.0142 0.0035

Uranus 42967-02-10 14:53 G 17414474.99 17414475.12 17414475.25 0.0142 0.0014

Uranus 42967-05-09 18:14 G 17414563.13 17414563.26 17414563.39 0.0142 0.0008

Uranus 42967-08-05 21:36 G 17414651.27 17414651.40 17414651.53 0.0142 0.0029

Uranus 42967-11-02 00:58 G 17414739.42 17414739.54 17414739.66 0.0142 0.0050

Uranus 42968-01-29 04:19 G 17414827.57 17414827.68 17414827.80 0.0142 0.0072

Uranus 42968-04-26 07:41 G 17414915.73 17414915.82 17414915.93 0.0142 0.0093

Uranus 42968-07-23 11:17 G 17415003.90 17415003.97 17415004.05 0.0142 0.0115

Uranus 42968-10-19 14:38 G 17415092.08 17415092.11 17415092.15 0.0142 0.0136

Jupiter 42970-02-14 20:10 G 17415575.16 17415575.34 17415575.52 0.0509 0.0169

Saturn 42970-02-15 09:50 G 17415575.78 17415575.91 17415576.06 0.0271 0.0180

Saturn 42970-05-15 09:07 G 17415664.69 17415664.88 17415665.07 0.0272 0.0014

Saturn 42970-08-12 07:55 G 17415753.72 17415753.83 17415753.96 0.0273 0.0210

Moon 42971-09-07 07:12 G 17416144.74 17416144.80 17416144.86 0.2658 0.2159

Earth 42971-09-07 07:12 G 17416144.75 17416144.80 17416144.86 0.2652 0.2226 *

Mars 42972-03-01 12:29 G 17416320.92 17416321.02 17416321.13 0.1940 0.0589

Pluto 42972-05-23 15:22 G 17416404.09 17416404.14 17416404.20 0.0068 0.0062

Pluto 42972-08-19 15:50 G 17416492.08 17416492.16 17416492.25 0.0068 0.0052

Pluto 42972-11-15 16:19 G 17416580.08 17416580.18 17416580.29 0.0068 0.0042

Pluto 42973-02-11 17:02 G 17416668.09 17416668.21 17416668.33 0.0069 0.0032

Pluto 42973-05-10 17:31 G 17416756.11 17416756.23 17416756.36 0.0069 0.0021

Pluto 42973-08-06 18:14 G 17416844.13 17416844.26 17416844.39 0.0069 0.0011

Pluto 42973-11-02 18:43 G 17416932.15 17416932.28 17416932.41 0.0069 0.0001

Pluto 42974-01-29 19:12 G 17417020.17 17417020.30 17417020.43 0.0069 0.0010

Pluto 42974-04-27 19:41 G 17417108.20 17417108.32 17417108.45 0.0069 0.0021

Pluto 42974-07-24 20:10 G 17417196.23 17417196.34 17417196.47 0.0069 0.0032

Pluto 42974-10-20 20:38 G 17417284.27 17417284.36 17417284.48 0.0069 0.0042

Pluto 42975-01-16 21:22 G 17417372.31 17417372.39 17417372.48 0.0069 0.0053

Moon 42975-03-05 01:55 G 17417419.42 17417419.58 17417419.74 0.2679 0.0786

Earth 42975-03-05 03:50 G 17417419.50 17417419.66 17417419.82 0.2678 0.0619 *

Pluto 42975-04-14 21:50 G 17417460.37 17417460.41 17417460.47 0.0069 0.0064

Jupiter 42975-10-12 00:43 G 17417640.40 17417640.53 17417640.65 0.0517 0.0057

Mars 42976-11-12 22:48 G 17418038.29 17418038.45 17418038.61 0.1593 0.0458

Moon 42978-08-31 08:38 G 17418694.77 17418694.86 17418694.96 0.2648 0.1253

Earth 42978-08-31 09:07 G 17418694.79 17418694.88 17418694.98 0.2654 0.1215 *

Venus 42981-07-26 12:14 G 17419754.93 17419755.01 17419755.09 0.3690 0.2012

Jupiter 42981-12-03 16:48 G 17419885.01 17419885.20 17419885.39 0.0508 0.0039

Saturn 42983-03-31 06:43 G 17420367.71 17420367.78 17420367.85 0.0293 0.0247

Saturn	**42983-06-27 18:14**	**G**	**17420456.14**	**17420456.26**	**17420456.38**	**0.0291**	**0.0089**	
Saturn	**42983-09-24 05:31**	**G**	**17420544.61**	**17420544.73**	**17420544.86**	**0.0290**	**0.0067**	
Saturn	**42983-12-21 16:48**	**G**	**17420633.12**	**17420633.20**	**17420633.29**	**0.0289**	**0.0221**	
Mars	**42986-04-05 00:29**	**G**	**17421468.38**	**17421468.52**	**17421468.66**	**0.1594**	**0.0915**	
Venus	**42987-02-09 03:36**	**G**	**17421778.55**	**17421778.65**	**17421778.75**	**0.3689**	**0.0124**	
Jupiter	**42987-07-31 05:17**	**G**	**17421950.60**	**17421950.72**	**17421950.83**	**0.0518**	**0.0202**	
Jupiter	**42987-10-28 09:07**	**G**	**17422039.80**	**17422039.88**	**17422039.96**	**0.0516**	**0.0384**	
Moon	**42988-03-07 13:12**	**G**	**17422170.98**	**17422171.05**	**17422171.12**	**0.2685**	**0.2388**	
Earth	**42988-03-07 14:10**	**G**	**17422171.06**	**17422171.09**	**17422171.12**	**0.2679**	**0.2617**	*
Moon	**42991-09-03 01:26**	**G**	**17423445.46**	**17423445.56**	**17423445.67**	**0.2653**	**0.0117**	
Earth	**42991-09-03 02:10**	**G**	**17423445.48**	**17423445.59**	**17423445.70**	**0.2653**	**0.0019**	*
Venus	**42992-08-24 19:12**	**G**	**17423802.22**	**17423802.30**	**17423802.38**	**0.3689**	**0.2172**	
Jupiter	**42993-09-21 12:43**	**G**	**17424194.87**	**17424195.03**	**17424195.20**	**0.0508**	**0.0256**	
Jupiter	**42999-05-19 10:05**	**G**	**17426260.82**	**17426260.92**	**17426261.01**	**0.0518**	**0.0349**	
Saturn	**42999-07-05 07:41**	**G**	**17426307.75**	**17426307.82**	**17426307.92**	**0.0271**	**0.0241**	
Jupiter	**42999-08-16 13:55**	**G**	**17426349.97**	**17426350.08**	**17426350.19**	**0.0517**	**0.0240**	
Saturn	**42999-10-02 06:58**	**G**	**17426396.60**	**17426396.79**	**17426396.98**	**0.0272**	**0.0047**	
Saturn	**42999-12-30 06:00**	**G**	**17426485.59**	**17426485.75**	**17426485.91**	**0.0273**	**0.0148**	

44TH MILLENNIUM CE

This is a list of transits of Mercury in the 44th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	**43002-04-11 04:19**	**G**	**17427317.59**	**17427317.68**	**17427317.78**	**0.1940**	**0.1059**	

Moon 43004-09-05 18:29 G 17428196.18 17428196.27 17428196.37 0.2657 0.1134

Earth 43004-09-05 19:12 G 17428196.20 17428196.30 17428196.39 0.2653 0.1245 *

Jupiter 43005-07-11 08:38 G 17428504.80 17428504.86 17428504.93 0.0507 0.0473

Jupiter 43005-10-09 23:17 G 17428595.36 17428595.47 17428595.59 0.0509 0.0405

Uranus 43006-04-04 07:55 G 17428771.81 17428771.83 17428771.88 0.0137 0.0134

Uranus 43006-07-01 15:50 G 17428860.05 17428860.16 17428860.29 0.0137 0.0105

Uranus 43006-09-27 23:31 G 17428948.33 17428948.48 17428948.66 0.0137 0.0077

Uranus 43006-12-25 07:41 G 17429036.63 17429036.82 17429037.00 0.0137 0.0048

Uranus 43007-03-23 15:22 G 17429124.95 17429125.14 17429125.33 0.0136 0.0019

Uranus 43007-06-19 23:02 G 17429213.26 17429213.46 17429213.65 0.0136 0.0009

Uranus 43007-09-16 06:29 G 17429301.59 17429301.77 17429301.97 0.0136 0.0037

Uranus 43007-12-13 14:10 G 17429389.93 17429390.09 17429390.27 0.0136 0.0065

Uranus 43008-03-10 21:36 G 17429478.27 17429478.40 17429478.55 0.0136 0.0093

Uranus 43008-06-07 05:17 G 17429566.64 17429566.72 17429566.82 0.0136 0.0120

Jupiter 43011-03-08 15:07 G 17430571.09 17430571.13 17430571.17 0.0519 0.0487

Jupiter 43011-06-05 18:58 G 17430660.17 17430660.29 17430660.41 0.0517 0.0101

Moon 43011-08-30 20:53 G 17430746.31 17430746.37 17430746.43 0.2648 0.2152

Earth 43011-08-30 20:53 G 17430746.32 17430746.37 17430746.43 0.2654 0.2201 *

Mars 43011-09-01 12:29 G 17430747.91 17430748.02 17430748.14 0.1940 0.0419

Saturn 43012-11-14 19:55 G 17431188.22 17431188.33 17431188.44 0.0291 0.0142

Saturn 43013-02-11 07:12 G 17431276.68 17431276.80 17431276.93 0.0290 0.0017

Venus 43013-04-04 05:17 G 17431328.56 17431328.72 17431328.87 0.3681 0.0490

Saturn 43013-05-10 18:43 G 17431365.17 17431365.28 17431365.38 0.0289 0.0170

Mars 43016-05-14 23:31 G 17432465.32 17432465.48 17432465.63 0.1593 0.0675

Jupiter 43017-07-28 18:00 G 17432905.08 17432905.25 17432905.43 0.0509 0.0170

Earth 43017-09-08 12:00 G 17432946.96 17432947.00 17432947.04 0.2652 0.2465

Moon 43017-09-08 12:00 G 17432946.97 17432947.00 17432947.03 0.2659 0.2526 *

Mars 43021-01-21 20:53 G 17434178.34 17434178.37 17434178.40 0.1939 0.1866

Moon 43021-03-06 09:07 G 17434221.72 17434221.88 17434222.05 0.2681 0.0276

Earth 43021-03-06 11:02 G 17434221.79 17434221.96 17434222.12 0.2678 0.0056 *

Jupiter 43023-03-25 00:00 G 17434970.37 17434970.50 17434970.62 0.0517 0.0041

Moon 43024-09-01 13:26 G 17435496.96 17435497.06 17435497.16 0.2649 0.1065

Earth 43024-09-01 13:55 G 17435496.98 17435497.08 17435497.18 0.2654 0.0969 *

Mars 43025-10-05 00:58 G 17435895.39 17435895.54 17435895.70 0.1594 0.0701

Saturn 43029-02-19 05:31 G 17437128.56 17437128.73 17437128.92 0.0271 0.0101

Jupiter 43029-05-16 14:24 G 17437214.91 17437215.10 17437215.29 0.0509 0.0043

Saturn 43029-05-19 04:48 G 17437217.52 17437217.70 17437217.88 0.0272 0.0094

Venus 43032-08-17 18:14 G 17438404.22 17438404.26 17438404.30 0.3690 0.3324

Jupiter 43035-01-11 04:19 G 17439280.56 17439280.68 17439280.80 0.0518 0.0191

Jupiter 43035-04-10 08:10 G 17439369.76 17439369.84 17439369.92 0.0516 0.0394

Moon 43037-09-04 06:14 G 17440247.65 17440247.76 17440247.87 0.2655 0.0189

Earth 43037-09-04 06:58 G 17440247.68 17440247.79 17440247.89 0.2653 0.0268 *

Venus 43038-03-03 09:36 G 17440427.81 17440427.90 17440428.00 0.3689 0.1264

Jupiter 43041-03-04 11:02 G 17441524.80 17441524.96 17441525.12 0.0508 0.0251

Neptune 43041-03-05 17:02 G 17441526.16 17441526.21 17441526.32 0.0089 0.0081

Neptune 43041-06-01 21:22 G 17441614.27 17441614.39 17441614.52 0.0089 0.0069

Neptune 43041-08-29 00:58 G 17441702.40 17441702.54 17441702.70 0.0089 0.0058

Mars 43041-10-10 04:19 G 17441744.59 17441744.68 17441744.77 0.1941 0.1223

Neptune 43041-11-25 04:34 G 17441790.54 17441790.69 17441790.88 0.0089 0.0047

Neptune 43042-02-21 08:38 G 17441878.68 17441878.86 17441879.04 0.0089 0.0035

Saturn 43042-04-03 21:36 G 17441920.31 17441920.40 17441920.50 0.0292 0.0195

Neptune 43042-05-20 12:14 G 17441966.83 17441967.01 17441967.21 0.0089 0.0024

Saturn 43042-07-01 09:07 G 17442008.75 17442008.88 17442009.01 0.0291 0.0038

Neptune 43042-08-16 16:05 G 17442054.98 17442055.17 17442055.37 0.0089 0.0012

Saturn 43042-09-27 20:24 G 17442097.24 17442097.35 17442097.47 0.0290 0.0119

Neptune 43042-11-12 19:55 G 17442143.13 17442143.33 17442143.53 0.0089 0.0001

Saturn 43042-12-25 07:55 G 17442185.79 17442185.83 17442185.87 0.0289 0.0272

Neptune 43043-02-08 23:31 G 17442231.29 17442231.48 17442231.68 0.0089 0.0011

Neptune 43043-05-08 03:22 G 17442319.45 17442319.64 17442319.83 0.0089 0.0022

Neptune 43043-08-04 07:12 G 17442407.62 17442407.80 17442407.98 0.0089 0.0033

Venus 43043-09-17 01:12 G 17442451.45 17442451.55 17442451.65 0.3689 0.0842

Neptune 43043-10-31 10:34 G 17442495.78 17442495.94 17442496.12 0.0089 0.0045

Neptune 43044-01-27 14:10 G 17442583.96 17442584.09 17442584.26 0.0089 0.0056

Neptune 43044-04-24 18:00 G 17442672.14 17442672.25 17442672.39 0.0089 0.0067

Neptune 43044-07-21 21:50 G 17442760.33 17442760.41 17442760.51 0.0089 0.0078

Jupiter 43046-10-30 08:53 G 17443590.78 17443590.87 17443590.97 0.0518 0.0340

Jupiter 43047-01-27 12:43 G 17443679.92 17443680.03 17443680.14 0.0516 0.0247

Venus 43049-04-01 16:34 G 17444475.13 17444475.19 17444475.25 0.3688 0.2941

Uranus 43049-09-21 01:55 G 17444647.54 17444647.58 17444647.62 0.0141 0.0133

Uranus 43049-12-18 05:02 G 17444735.64 17444735.71 17444735.80 0.0141 0.0113

Uranus 43050-03-16 08:24 G 17444823.76 17444823.85 17444823.96 0.0141 0.0093

Uranus 43050-06-12 11:46 G 17444911.89 17444911.99 17444912.11 0.0141 0.0072

Moon 43050-09-06 23:17 G 17444998.39 17444998.47 17444998.56 0.2657 0.1457

Earth 43050-09-06 23:46 G 17444998.40 17444998.49 17444998.58 0.2652 0.1489 *

Uranus 43050-09-08 15:22 G 17445000.02 17445000.14 17445000.26 0.0142 0.0051

Uranus 43050-12-05 18:43 G 17445088.15 17445088.28 17445088.40 0.0142 0.0030

Mars 43051-03-02 12:43 G 17445174.91 17445175.03 17445175.14 0.1940 0.0239

Uranus 43051-03-03 22:05 G 17445176.29 17445176.42 17445176.55 0.0142 0.0009

Uranus 43051-05-31 01:26 G 17445264.43 17445264.56 17445264.69 0.0142 0.0013

Uranus 43051-08-27 04:48 G 17445352.57 17445352.70 17445352.83 0.0142 0.0034

Uranus 43051-11-23 08:10 G 17445440.72 17445440.84 17445440.96 0.0142 0.0055

Uranus 43052-02-19 11:31 G 17445528.87 17445528.98 17445529.09 0.0142 0.0077

Uranus 43052-05-17 14:53 G 17445617.03 17445617.12 17445617.22 0.0142 0.0098

Uranus 43052-08-13 18:29 G 17445705.20 17445705.27 17445705.34 0.0142 0.0119

Uranus 43052-11-09 21:50 G 17445793.40 17445793.41 17445793.43 0.0142 0.0141

Jupiter 43052-12-21 06:58 G 17445834.72 17445834.79 17445834.86 0.0507 0.0468

Jupiter 43053-03-21 21:36 G 17445925.29 17445925.40 17445925.51 0.0509 0.0410

Earth 43054-03-04 07:41 G 17446272.81 17446272.82 17446272.82 0.2678 0.2677

Mars 43055-11-14 00:14 G 17446892.37 17446892.51 17446892.65 0.1593 0.0902

Moon 43057-08-31 01:26 G 17447548.49 17447548.56 17447548.63 0.2648 0.2032

Earth 43057-08-31 01:41 G 17447548.50 17447548.57 17447548.64 0.2654 0.1953 *

Saturn 43058-07-09 04:19 G 17447860.52 17447860.68 17447860.83 0.0271 0.0157

Jupiter 43058-08-18 13:26 G 17447901.03 17447901.06 17447901.10 0.0519 0.0489

Saturn 43058-10-06 03:22 G 17447949.45 17447949.64 17447949.83 0.0272 0.0038

Jupiter 43058-11-15 17:31 G 17447990.10 17447990.23 17447990.35 0.0517 0.0101

Pluto 43058-12-20 05:31 G 17448024.63 17448024.73 17448024.87 0.0075 0.0060

Saturn 43059-01-03 02:10 G 17448038.50 17448038.59 17448038.70 0.0273 0.0234

Pluto 43059-03-18 08:10 G 17448112.69 17448112.84 17448113.02 0.0075 0.0040

Pluto 43059-06-14 11:02 G 17448200.77 17448200.96 17448201.15 0.0075 0.0019

Pluto 43059-09-10 13:41 G 17448288.87 17448289.07 17448289.26 0.0075 0.0001

Pluto 43059-12-07 15:50 G 17448376.98 17448377.16 17448377.36 0.0075 0.0021

Pluto 43060-03-04 18:14 G 17448465.11 17448465.26 17448465.44 0.0075 0.0041

Pluto 43060-05-31 21:07 G 17448553.26 17448553.38 17448553.49 0.0074 0.0060

Mars 43060-07-22 20:53 G 17448605.32 17448605.37 17448605.42 0.1939 0.1714

Jupiter 43065-01-07 17:31 G 17450235.05 17450235.23 17450235.40 0.0509 0.0190

Mars 43065-04-05 01:55 G 17450322.41 17450322.58 17450322.74 0.1593 0.0479

Moon 43067-03-07 16:19 G 17451024.02 17451024.18 17451024.35 0.2683 0.0356

Earth 43067-03-07 18:00 G 17451024.09 17451024.25 17451024.41 0.2678 0.0558 *

Venus 43069-11-09 07:41 G 17452001.68 17452001.82 17452001.95 0.3682 0.1846

Moon 43070-09-02 18:00 G 17452299.15 17452299.25 17452299.36 0.2650 0.0757

Earth 43070-09-02 18:43 G 17452299.17 17452299.28 17452299.38 0.2654 0.0729 *

Jupiter 43070-09-03 22:34 G 17452300.31 17452300.44 17452300.56 0.0517 0.0039

Saturn 43071-08-21 23:46 G 17452652.42 17452652.49 17452652.56 0.0292 0.0242

Saturn 43071-11-18 11:17 G 17452740.85 17452740.97 17452741.09 0.0291 0.0084

Saturn 43072-02-14 22:48 G 17452829.32 17452829.45 17452829.57 0.0290 0.0072

Saturn 43072-05-13 10:05 G 17452917.84 17452917.92 17452918.00 0.0289 0.0226

Jupiter 43076-10-26 12:00 G 17454544.81 17454545.00 17454545.19 0.0508 0.0049

Mars 43081-04-10 04:19 G 17456171.60 17456171.68 17456171.76 0.1940 0.1392

Jupiter 43082-06-23 03:36 G 17456610.53 17456610.65 17456610.76 0.0518 0.0181

Jupiter 43082-09-20 07:12 G 17456699.73 17456699.80 17456699.88 0.0516 0.0406

Moon 43083-09-05 11:02 G 17457049.85 17457049.96 17457050.06 0.2655 0.0391

Earth 43083-09-05 11:31 G 17457049.88 17457049.98 17457050.09 0.2653 0.0512 *

Saturn 43087-11-26 03:36 G 17458592.53 17458592.65 17458592.78 0.0271 0.0204

Saturn 43088-02-23 02:38 G 17458681.42 17458681.61 17458681.81 0.0272 0.0011

Saturn 43088-05-22 01:41 G 17458770.43 17458770.57 17458770.71 0.0273 0.0185

Jupiter 43088-08-14 08:10 G 17458854.68 17458854.84 17458855.00 0.0508 0.0263

Venus 43089-03-24 15:36 G 17459077.08 17459077.15 17459077.22 0.3690 0.2579

Uranus 43090-04-24 14:10 G 17459473.04 17459473.09 17459473.16 0.0137 0.0130

Uranus 43090-07-21 22:05 G 17459561.30 17459561.42 17459561.56 0.0137 0.0101

Mars 43090-08-31 12:29 G 17459601.90 17459602.02 17459602.13 0.1940 0.0102

Uranus 43090-10-18 05:46 G 17459649.59 17459649.74 17459649.92 0.0137 0.0073

Uranus 43091-01-14 13:41 G 17459737.89 17459738.07 17459738.26 0.0137 0.0044

Uranus 43091-04-12 21:36 G 17459826.20 17459826.40 17459826.59 0.0136 0.0016

Uranus 43091-07-10 05:02 G 17459914.52 17459914.71 17459914.91 0.0136 0.0013

Uranus 43091-10-06 12:43 G 17460002.85 17460003.03 17460003.22 0.0136 0.0041

Uranus 43092-01-02 20:24 G 17460091.18 17460091.35 17460091.52 0.0136 0.0069

Uranus 43092-03-31 03:50 G 17460179.53 17460179.66 17460179.81 0.0136 0.0097

Uranus 43092-06-27 11:17 G 17460267.91 17460267.97 17460268.06 0.0136 0.0124

Jupiter 43094-04-11 07:55 G 17460920.73 17460920.83 17460920.92 0.0518 0.0334

Jupiter 43094-07-09 11:46 G 17461009.88 17461009.99 17461010.10 0.0516 0.0253

Venus 43094-10-08 06:58 G 17461100.69 17461100.79 17461100.89 0.3689 0.0517

Mars 43095-05-15 00:58 G 17461319.42 17461319.54 17461319.66 0.1593 0.1112

Moon 43096-09-07 04:19 G 17461800.60 17461800.68 17461800.76 0.2658 0.1696

Earth 43096-09-07 04:34 G 17461800.61 17461800.69 17461800.77 0.2652 0.1730 *

Mars 43100-01-21 20:53 G 17463032.30 17463032.37 17463032.44 0.1939 0.1536

Moon 43100-03-05 12:43 G 17463074.97 17463075.03 17463075.10 0.2677 0.2409

Earth 43100-03-05 14:38 G 17463075.01 17463075.11 17463075.22 0.2678 0.2080 *

Venus 43100-04-23 22:34 G 17463124.35 17463124.44 17463124.53 0.3689 0.1600

Jupiter 43100-06-03 04:34 G 17463164.63 17463164.69 17463164.76 0.0508 0.0472

Jupiter 43100-09-01 19:26 G 17463255.20 17463255.31 17463255.42 0.0509 0.0408

Saturn 43101-01-09 01:55 G 17463384.58 17463384.58 17463384.59 0.0293 0.0292

Saturn 43101-04-07 13:26 G 17463472.95 17463473.06 17463473.18 0.0292 0.0133

Saturn 43101-07-05 00:58 G 17463561.41 17463561.54 17463561.67 0.0291 0.0025

Saturn 43101-10-01 12:14 G 17463649.91 17463650.01 17463650.11 0.0289 0.0179

Moon 43103-09-02 06:14 G 17464350.67 17464350.76 17464350.84 0.2648 0.1684

Earth 43103-09-02 06:29 G 17464350.69 17464350.77 17464350.85 0.2654 0.1713 *

Mars 43104-10-05 02:38 G 17464749.44 17464749.61 17464749.77 0.1594 0.0261

Jupiter 43106-01-29 12:14 G 17465230.97 17465231.01 17465231.06 0.0518 0.0485

Jupiter 43106-04-28 16:05 G 17465320.05 17465320.17 17465320.30 0.0517 0.0106

Jupiter 43112-06-20 15:22 G 17467564.96 17467565.14 17467565.31 0.0509 0.0188

Moon 43113-03-08 23:31 G 17467826.33 17467826.48 17467826.63 0.2684 0.1021

Earth 43113-03-09 00:58 G 17467826.40 17467826.54 17467826.69 0.2679 0.1149 *

Moon 43116-09-03 22:48 G 17469101.34 17469101.45 17469101.55 0.2652 0.0622

Earth 43116-09-03 23:17 G 17469101.37 17469101.47 17469101.58 0.2654 0.0487 *

Saturn 43117-04-15 02:38 G 17469324.56 17469324.61 17469324.69 0.0271 0.0255

Saturn 43117-07-13 01:55 G 17469413.39 17469413.58 17469413.77 0.0272 0.0061

Saturn 43117-10-10 00:58 G 17469502.38 17469502.54 17469502.71 0.0273 0.0134

Jupiter 43118-02-14 20:53 G 17469630.24 17469630.37 17469630.49 0.0517 0.0048

Mars 43120-10-10 04:19 G 17470598.61 17470598.68 17470598.74 0.1940 0.1556

Venus 43120-12-01 00:14 G 17470650.41 17470650.51 17470650.60 0.3681 0.2936

Neptune 43121-06-30 10:19 G 17470861.89 17470861.93 17470861.99 0.0089 0.0082

Neptune 43121-09-26 11:46 G 17470949.92 17470949.99 17470950.06 0.0089 0.0074

Neptune 43121-12-23 12:58 G 17471037.96 17471038.04 17471038.13 0.0089 0.0067

Neptune 43122-03-21 14:24 G 17471126.00 17471126.10 17471126.19 0.0089 0.0059

Neptune 43122-06-17 15:22 G 17471214.05 17471214.14 17471214.26 0.0089 0.0052

Neptune 43122-09-13 16:48 G 17471302.09 17471302.20 17471302.32 0.0089 0.0044

Neptune 43122-12-10 18:00 G 17471390.14 17471390.25 17471390.37 0.0089 0.0037

Neptune 43123-03-08 19:26 G 17471478.18 17471478.31 17471478.43 0.0089 0.0029

Neptune 43123-06-04 20:38 G 17471566.23 17471566.36 17471566.49 0.0089 0.0022

Neptune 43123-08-31 21:50 G 17471654.28 17471654.41 17471654.54 0.0089 0.0014

Neptune 43123-11-27 23:02 G 17471742.33 17471742.46 17471742.60 0.0089 0.0007

Neptune 43124-02-24 00:29 G 17471830.39 17471830.52 17471830.65 0.0089 0.0002

Jupiter 43124-04-08 10:48 G 17471874.77 17471874.95 17471875.14 0.0508 0.0037

Neptune 43124-05-22 01:41 G 17471918.44 17471918.57 17471918.70 0.0089 0.0008

Neptune 43124-08-18 02:53 G 17472006.49 17472006.62 17472006.75 0.0089 0.0016

Neptune 43124-11-14 04:05 G 17472094.55 17472094.67 17472094.80 0.0089 0.0024

Neptune 43125-02-10 05:31 G 17472182.60 17472182.73 17472182.85 0.0089 0.0031

Neptune 43125-05-09 06:29 G 17472270.66 17472270.77 17472270.90 0.0089 0.0039

Neptune 43125-08-05 07:55 G 17472358.72 17472358.83 17472358.95 0.0089 0.0046

Neptune 43125-11-01 09:07 G 17472446.78 17472446.88 17472446.99 0.0089 0.0054

Neptune 43126-01-28 10:34 G 17472534.84 17472534.94 17472535.03 0.0089 0.0061

Neptune 43126-04-26 11:31 G 17472622.91 17472622.98 17472623.07 0.0089 0.0069

Neptune 43126-07-23 12:43 G 17472710.98 17472711.03 17472711.11 0.0089 0.0077

Neptune 43126-10-19 14:10 G 17472799.06 17472799.09 17472799.14 0.0089 0.0084

Moon 43129-09-06 15:36 G 17473852.05 17473852.15 17473852.26 0.2655 0.0702

Earth 43129-09-06 16:19 G 17473852.08 17473852.18 17473852.28 0.2653 0.0747 *

Jupiter 43129-12-04 01:41 G 17473940.46 17473940.57 17473940.69 0.0518 0.0187

Mars 43130-03-02 12:29 G 17474028.91 17474029.02 17474029.13 0.1940 0.0081

Jupiter 43130-03-03 05:46 G 17474029.66 17474029.74 17474029.81 0.0516 0.0401

Saturn 43130-08-25 16:05 G 17474205.07 17474205.17 17474205.27 0.0292 0.0175

Saturn 43130-11-22 03:22 G 17474293.52 17474293.64 17474293.77 0.0290 0.0019

Saturn 43131-02-18 14:38 G 17474382.01 17474382.11 17474382.23 0.0289 0.0139

Uranus 43133-10-12 09:07 G 17475348.84 17475348.88 17475348.94 0.0141 0.0128

Uranus 43134-01-08 12:29 G 17475436.94 17475437.02 17475437.11 0.0141 0.0107

Uranus 43134-04-06 15:50 G 17475525.06 17475525.16 17475525.27 0.0141 0.0087

Uranus 43134-07-03 19:12 G 17475613.19 17475613.30 17475613.42 0.0141 0.0066

Uranus 43134-09-29 22:34 G 17475701.32 17475701.44 17475701.57 0.0142 0.0045

Mars 43134-11-14 01:41 G 17475746.48 17475746.57 17475746.66 0.1593 0.1330

Uranus 43134-12-27 01:55 G 17475789.46 17475789.58 17475789.71 0.0142 0.0024

Uranus 43135-03-25 05:31 G 17475877.59 17475877.73 17475877.86 0.0142 0.0006

Uranus 43135-06-21 08:53 G 17475965.74 17475965.87 17475966.00 0.0142 0.0019

Uranus 43135-09-17 12:14 G 17476053.88 17476054.01 17476054.13 0.0142 0.0040

Uranus 43135-12-14 15:36 G 17476142.03 17476142.15 17476142.27 0.0142 0.0061

Jupiter 43136-01-26 05:17 G 17476184.56 17476184.72 17476184.88 0.0508 0.0274

Uranus 43136-03-11 18:58 G 17476230.19 17476230.29 17476230.40 0.0142 0.0082

Uranus 43136-06-07 22:19 G 17476318.35 17476318.43 17476318.52 0.0142 0.0104

Moon 43136-08-30 18:14 G 17476402.26 17476402.26 17476402.26 0.2648 0.2647

Uranus 43136-09-04 01:55 G 17476406.52 17476406.58 17476406.64 0.0142 0.0125

Mars 43139-07-23 20:38 G 17477459.29 17477459.36 17477459.44 0.1938 0.1385

Jupiter 43141-09-22 06:43 G 17478250.68 17478250.78 17478250.87 0.0518 0.0329

Jupiter 43141-12-20 10:34 G 17478339.83 17478339.94 17478340.05 0.0516 0.0259

Moon 43142-09-09 09:07 G 17478602.81 17478602.88 17478602.95 0.2659 0.1931

Earth 43142-09-09 09:07 G 17478602.81 17478602.88 17478602.95 0.2652 0.1975 *

Mars 43144-04-05 03:07 G 17479176.46 17479176.63 17479176.80 0.1594 0.0055

Venus 43145-10-30 12:58 G 17479749.95 17479750.04 17479750.13 0.3690 0.1831

Moon 43146-03-06 19:55 G 17479877.20 17479877.33 17479877.46 0.2679 0.1612

Earth 43146-03-06 21:50 G 17479877.27 17479877.41 17479877.54 0.2678 0.1499 *

Saturn 43146-11-30 01:55 G 17480145.40 17480145.58 17480145.75 0.0271 0.0106

Saturn 43147-02-27 00:58 G 17480234.36 17480234.54 17480234.72 0.0272 0.0089

Jupiter 43147-11-14 01:12 G 17480494.51 17480494.55 17480494.60 0.0507 0.0489

Jupiter 43148-02-12 15:50 G 17480585.05 17480585.16 17480585.29 0.0509 0.0391

Moon 43149-09-02 10:48 G 17481152.86 17481152.95 17481153.04 0.2648 0.1549

Earth 43149-09-02 11:02 G 17481152.87 17481152.96 17481153.05 0.2654 0.1465 *

Venus 43151-05-16 04:19 G 17481773.58 17481773.68 17481773.79 0.3689 0.0305

Jupiter 43153-07-11 11:02 G 17482560.91 17482560.96 17482561.00 0.0519 0.0484

Mars 43153-08-26 04:48 G 17482606.63 17482606.70 17482606.78 0.1594 0.1419

Jupiter 43153-10-08 14:53 G 17482649.99 17482650.12 17482650.24 0.0517 0.0106

Venus 43156-11-28 19:55 G 17483797.25 17483797.33 17483797.41 0.3689 0.2364

Moon 43159-03-10 06:43 G 17484628.65 17484628.78 17484628.92 0.2684 0.1496

Earth 43159-03-10 08:10 G 17484628.72 17484628.84 17484628.97 0.2679 0.1739 *

Jupiter 43159-12-01 12:29 G 17484894.84 17484895.02 17484895.20 0.0509 0.0179

Saturn 43160-01-12 18:43 G 17484937.19 17484937.28 17484937.36 0.0292 0.0217

Mars 43160-04-10 04:05 G 17485025.62 17485025.67 17485025.72 0.1941 0.1714

Saturn 43160-04-10 06:00 G 17485025.63 17485025.75 17485025.88 0.0291 0.0060 *

Saturn 43160-07-07 17:31 G 17485114.11 17485114.23 17485114.35 0.0290 0.0097

Saturn 43160-10-04 04:48 G 17485202.64 17485202.70 17485202.76 0.0289 0.0251

Moon 43162-09-05 03:22 G 17485903.54 17485903.64 17485903.75 0.2653 0.0273

Earth 43162-09-05 04:05 G 17485903.56 17485903.67 17485903.78 0.2653 0.0236 *

Jupiter 43165-07-27 19:12 G 17486960.18 17486960.30 17486960.43 0.0517 0.0049

Mars 43169-08-31 12:29 G 17488455.91 17488456.02 17488456.13 0.1940 0.0254

Jupiter 43171-09-19 08:24 G 17489204.66 17489204.85 17489205.03 0.0508 0.0043

Mars 43174-05-15 02:24 G 17490173.57 17490173.60 17490173.63 0.1593 0.1556

Uranus 43174-05-15 20:38 G 17490174.30 17490174.36 17490174.45 0.0137 0.0125

Uranus 43174-08-12 04:48 G 17490262.56 17490262.70 17490262.84 0.0137 0.0096

Uranus 43174-11-08 12:14 G 17490350.85 17490351.01 17490351.19 0.0137 0.0068

Uranus 43175-02-04 20:10 G 17490439.16 17490439.34 17490439.53 0.0136 0.0039

Uranus 43175-05-04 03:50 G 17490527.47 17490527.66 17490527.86 0.0136 0.0011

Uranus 43175-07-31 11:31 G 17490615.79 17490615.98 17490616.18 0.0136 0.0018

Moon 43175-09-07 20:24 G 17490654.25 17490654.35 17490654.45 0.2656 0.0868

Earth 43175-09-07 21:07 G 17490654.28 17490654.38 17490654.47 0.2653 0.0997 *

Uranus 43175-10-27 19:12 G 17490704.12 17490704.30 17490704.49 0.0136 0.0045

Uranus 43176-01-24 02:38 G 17490792.46 17490792.61 17490792.78 0.0136 0.0074

Saturn 43176-04-18 01:26 G 17490877.41 17490877.56 17490877.73 0.0271 0.0151

Uranus 43176-04-21 10:05 G 17490880.81 17490880.92 17490881.06 0.0136 0.0102

Saturn 43176-07-16 00:43 G 17490966.34 17490966.53 17490966.72 0.0272 0.0044

Uranus 43176-07-18 18:00 G 17490969.19 17490969.25 17490969.31 0.0136 0.0128

Saturn 43176-10-12 23:46 G 17491055.40 17491055.49 17491055.58 0.0273 0.0240

Jupiter 43177-05-15 23:46 G 17491270.37 17491270.49 17491270.61 0.0518 0.0197

Venus 43177-07-08 02:24 G 17491323.45 17491323.60 17491323.76 0.3681 0.0576

Jupiter 43177-08-13 03:36 G 17491359.57 17491359.65 17491359.73 0.0516 0.0390

Mars 43179-01-21 20:38 G 17491886.28 17491886.36 17491886.45 0.1938 0.1220

Moon 43182-08-31 22:48 G 17493204.41 17493204.45 17493204.49 0.2648 0.2444

Earth 43182-08-31 22:48 G 17493204.41 17493204.45 17493204.49 0.2655 0.2449 *

Jupiter 43183-07-08 03:36 G 17493514.50 17493514.65 17493514.82 0.0508 0.0266

Mars 43183-10-05 04:05 G 17493603.50 17493603.67 17493603.84 0.1594 0.0184

Moon 43188-09-09 13:41 G 17495405.02 17495405.07 17495405.13 0.2659 0.2239

Earth 43188-09-09 13:55 G 17495405.02 17495405.08 17495405.14 0.2652 0.2213 *

Jupiter 43189-03-04 04:48 G 17495580.60 17495580.70 17495580.79 0.0519 0.0340

Saturn 43189-05-31 21:36 G 17495669.34 17495669.40 17495669.46 0.0292 0.0254

Jupiter 43189-06-01 08:38 G 17495669.75 17495669.86 17495669.97 0.0517 0.0249

Saturn 43189-08-28 09:07 G 17495757.76 17495757.88 17495758.00 0.0291 0.0097

Saturn 43189-11-24 20:24 G 17495846.23 17495846.35 17495846.48 0.0290 0.0060

Saturn 43190-02-21 07:41 G 17495934.74 17495934.82 17495934.91 0.0289 0.0214

Moon 43192-03-07 03:07 G 17496679.48 17496679.63 17496679.77 0.2681 0.1247

Earth 43192-03-07 04:48 G 17496679.55 17496679.70 17496679.86 0.2678 0.0910 *

Mars 43193-02-24 05:31 G 17497033.62 17497033.73 17497033.84 0.1594 0.1206

Jupiter 43195-04-25 22:05 G 17497824.41 17497824.42 17497824.44 0.0507 0.0504

Jupiter 43195-07-25 12:43 G 17497914.91 17497915.03 17497915.16 0.0509 0.0374

Moon 43195-09-03 15:22 G 17497955.05 17497955.14 17497955.24 0.2649 0.1245

Earth 43195-09-03 15:50 G 17497955.07 17497955.16 17497955.25 0.2654 0.1221 *

Venus 43196-11-20 18:58 G 17498399.24 17498399.29 17498399.34 0.3690 0.3145

Mars 43199-10-10 04:05 G 17499452.65 17499452.67 17499452.70 0.1940 0.1889

Jupiter 43200-12-21 09:36 G 17499890.86 17499890.90 17499890.94 0.0519 0.0484

Jupiter 43201-03-20 13:26 G 17499979.94 17499980.06 17499980.18 0.0517 0.0106

Venus 43202-06-06 10:19 G 17500422.84 17500422.93 17500423.03 0.3690 0.1083

Moon 43205-03-10 13:55 G 17501431.00 17501431.08 17501431.17 0.2684 0.2259

Earth 43205-03-10 15:07 G 17501431.05 17501431.13 17501431.21 0.2679 0.2319 *

Neptune 43205-09-04 12:29 G 17501608.99 17501609.02 17501609.08 0.0089 0.0086

Saturn 43205-09-05 01:55 G 17501609.45 17501609.58 17501609.72 0.0271 0.0192

Neptune 43205-12-01 16:05 G 17501697.09 17501697.17 17501697.30 0.0089 0.0075

Saturn 43205-12-03 00:58 G 17501698.35 17501698.54 17501698.74 0.0272 0.0005

Neptune 43206-02-27 19:55 G 17501785.21 17501785.33 17501785.48 0.0089 0.0064

Saturn 43206-03-02 00:00 G 17501787.38 17501787.50 17501787.64 0.0273 0.0199

Neptune 43206-05-27 00:00 G 17501873.34 17501873.50 17501873.66 0.0089 0.0052

Neptune 43206-08-23 03:36 G 17501961.48 17501961.65 17501961.84 0.0089 0.0041

Neptune 43206-11-19 07:12 G 17502049.63 17502049.80 17502050.00 0.0089 0.0030

Neptune 43207-02-15 11:17 G 17502137.78 17502137.97 17502138.17 0.0089 0.0018

Jupiter 43207-05-13 08:38 G 17502224.69 17502224.86 17502225.04 0.0509 0.0156

Neptune 43207-05-14 15:07 G 17502225.93 17502226.13 17502226.33 0.0089 0.0006

Neptune 43207-08-10 18:58 G 17502314.09 17502314.29 17502314.48 0.0089 0.0005

Neptune 43207-11-06 22:34 G 17502402.25 17502402.44 17502402.64 0.0089 0.0016

Venus 43207-12-21 01:55 G 17502446.48 17502446.58 17502446.67 0.3689 0.1027

Neptune 43208-02-03 02:10 G 17502490.41 17502490.59 17502490.79 0.0089 0.0028

Neptune 43208-05-01 06:00 G 17502578.58 17502578.75 17502578.93 0.0089 0.0039

Neptune 43208-07-28 09:22 G 17502666.75 17502666.89 17502667.07 0.0089 0.0051

Moon 43208-09-05 08:10 G 17502705.73 17502705.84 17502705.95 0.2653 0.0143

Earth 43208-09-05 08:53 G 17502705.76 17502705.87 17502705.97 0.2653 0.0070 *

Neptune 43208-10-24 13:12 G 17502754.92 17502755.05 17502755.21 0.0089 0.0062

Neptune 43209-01-20 17:02 G 17502843.11 17502843.21 17502843.33 0.0089 0.0073

Mars 43209-03-01 12:14 G 17502882.90 17502883.01 17502883.12 0.1940 0.0399

Neptune 43209-04-18 20:53 G 17502931.32 17502931.37 17502931.44 0.0089 0.0084

Jupiter 43213-01-06 17:46 G 17504290.11 17504290.24 17504290.36 0.0517 0.0051

Venus 43213-07-05 17:17 G 17504470.17 17504470.22 17504470.27 0.3689 0.3128

Uranus 43217-11-01 16:34 G 17506050.13 17506050.19 17506050.25 0.0141 0.0123

Uranus 43218-01-28 19:41 G 17506138.24 17506138.32 17506138.42 0.0141 0.0103

Uranus 43218-04-26 23:02 G 17506226.36 17506226.46 17506226.58 0.0141 0.0082

Mars 43218-07-22 20:38 G 17506313.27 17506313.36 17506313.46 0.1939 0.1051

Uranus 43218-07-24 02:38 G 17506314.49 17506314.61 17506314.73 0.0142 0.0060

Uranus 43218-10-20 06:00 G 17506402.62 17506402.75 17506402.88 0.0142 0.0040

Saturn 43219-01-15 12:00 G 17506489.89 17506490.00 17506490.12 0.0292 0.0135

Uranus 43219-01-16 09:22 G 17506490.76 17506490.89 17506491.02 0.0142 0.0018

Jupiter 43219-03-01 05:02 G 17506534.53 17506534.71 17506534.90 0.0508 0.0057

Saturn 43219-04-13 23:31 G 17506578.35 17506578.48 17506578.61 0.0291 0.0023

Uranus 43219-04-14 12:43 G 17506578.90 17506579.03 17506579.16 0.0142 0.0003

Saturn 43219-07-11 10:48 G 17506666.85 17506666.95 17506667.05 0.0289 0.0177

Uranus 43219-07-11 16:05 G 17506667.04 17506667.17 17506667.30 0.0142 0.0024 *

Uranus 43219-10-07 19:26 G 17506755.19 17506755.31 17506755.44 0.0142 0.0045

Uranus 43220-01-03 23:02 G 17506843.34 17506843.46 17506843.57 0.0142 0.0067

Uranus 43220-04-01 02:10 G 17506931.50 17506931.59 17506931.70 0.0142 0.0089

Uranus 43220-06-28 05:46 G 17507019.66 17507019.74 17507019.83 0.0142 0.0110

Pluto 43220-09-16 22:34 G 17507100.41 17507100.44 17507100.50 0.0068 0.0065

Uranus 43220-09-24 09:07 G 17507107.84 17507107.88 17507107.94 0.0142 0.0131

Pluto 43220-12-13 23:02 G 17507188.40 17507188.46 17507188.56 0.0068 0.0055

Pluto 43221-03-12 00:00 G 17507276.40 17507276.50 17507276.60 0.0068 0.0044

Pluto 43221-06-08 00:14 G 17507364.41 17507364.51 17507364.64 0.0068 0.0034

Pluto 43221-09-04 00:43 G 17507452.42 17507452.53 17507452.67 0.0069 0.0024

Moon 43221-09-08 01:12 G 17507456.46 17507456.55 17507456.65 0.2657 0.1233

Earth 43221-09-08 01:41 G 17507456.48 17507456.57 17507456.67 0.2653 0.1234 *

Pluto 43221-12-01 01:26 G 17507540.43 17507540.56 17507540.70 0.0069 0.0013

Pluto 43222-02-27 02:10 G 17507628.46 17507628.59 17507628.72 0.0069 0.0002

Pluto 43222-05-26 02:38 G 17507716.48 17507716.61 17507716.74 0.0069 0.0008

Pluto 43222-08-22 03:07 G 17507804.51 17507804.63 17507804.76 0.0069 0.0019

Pluto 43222-11-18 03:50 G 17507892.54 17507892.66 17507892.78 0.0069 0.0030

Pluto 43223-02-14 04:05 G 17507980.57 17507980.67 17507980.79 0.0069 0.0041

Mars 43223-04-05 04:34 G 17508030.53 17508030.69 17508030.86 0.1594 0.0402

Pluto 43223-05-13 04:34 G 17508068.62 17508068.69 17508068.79 0.0069 0.0051

Pluto 43223-08-09 05:17 G 17508156.67 17508156.72 17508156.79 0.0069 0.0062

Jupiter 43224-10-25 22:05 G 17508600.31 17508600.42 17508600.54 0.0518 0.0202

Jupiter 43225-01-23 01:55 G 17508689.50 17508689.58 17508689.66 0.0516 0.0385

Moon 43228-09-01 03:36 G 17510006.59 17510006.65 17510006.71 0.2648 0.2204

Earth 43228-09-01 03:36 G 17510006.59 17510006.65 17510006.71 0.2655 0.2203 *

Jupiter 43230-12-18 00:58 G 17510844.38 17510844.54 17510844.70 0.0508 0.0277

Mars 43232-08-25 06:14 G 17511460.63 17511460.76 17511460.90 0.1594 0.0978

Venus 43234-02-12 04:34 G 17511996.55 17511996.69 17511996.83 0.3681 0.1728

Moon 43234-09-10 18:29 G 17512207.23 17512207.27 17512207.32 0.2659 0.2411

Earth 43234-09-10 18:43 G 17512207.24 17512207.28 17512207.31 0.2652 0.2458 *

Saturn 43235-01-23 01:41 G 17512341.49 17512341.57 17512341.68 0.0271 0.0236

Saturn 43235-04-22 00:58 G 17512430.35 17512430.54 17512430.74 0.0272 0.0042

Saturn 43235-07-20 00:00 G 17512519.35 17512519.50 17512519.67 0.0273 0.0155

Jupiter 43236-08-14 02:38 G 17512910.52 17512910.61 17512910.70 0.0518 0.0355

Jupiter 43236-11-11 06:29 G 17512999.66 17512999.77 17512999.88 0.0517 0.0234

Moon 43238-03-08 10:05 G 17513481.76 17513481.92 17513482.08 0.2682 0.0443

Earth 43238-03-08 11:46 G 17513481.83 17513481.99 17513482.16 0.2678 0.0337 *

Moon 43241-09-03 19:55 G 17514757.24 17514757.33 17514757.43 0.2650 0.1061

Earth 43241-09-03 20:38 G 17514757.26 17514757.36 17514757.46 0.2654 0.0975 *

Jupiter 43242-10-05 20:10 G 17515154.32 17515154.34 17515154.37 0.0507 0.0501

Jupiter 43243-01-04 10:48 G 17515244.83 17515244.95 17515245.08 0.0509 0.0377

Jupiter 43248-06-02 07:26 G 17517220.78 17517220.81 17517220.84 0.0519 0.0499

Saturn 43248-06-03 15:22 G 17517222.04 17517222.14 17517222.25 0.0291 0.0167

Jupiter 43248-08-30 11:17 G 17517309.85 17517309.97 17517310.10 0.0517 0.0092

Mars 43248-08-30 12:14 G 17517309.91 17517310.01 17517310.12 0.1940 0.0575 *

Saturn 43248-08-31 02:53 G 17517310.49 17517310.62 17517310.74 0.0290 0.0013

Saturn 43248-11-27 14:10 G 17517398.98 17517399.09 17517399.20 0.0289 0.0145

Venus 43253-06-27 16:19 G 17519072.11 17519072.18 17519072.26 0.3690 0.2404

Moon 43254-09-06 12:58 G 17519507.93 17519508.04 17519508.14 0.2653 0.0238

Earth 43254-09-06 13:26 G 17519507.96 17519508.06 17519508.17 0.2653 0.0260 *

Jupiter 43254-10-23 05:17 G 17519554.54 17519554.72 17519554.90 0.0508 0.0138

Mars 43258-01-20 20:38 G 17520740.26 17520740.36 17520740.46 0.1938 0.0890

Uranus 43258-06-05 03:50 G 17520875.57 17520875.66 17520875.76 0.0137 0.0118

Uranus 43258-09-01 11:31 G 17520963.84 17520963.98 17520964.14 0.0137 0.0090

Uranus 43258-11-28 19:26 G 17521052.14 17521052.31 17521052.49 0.0137 0.0061

Venus 43259-01-11 07:41 G 17521095.72 17521095.82 17521095.93 0.3689 0.0348

Uranus 43259-02-25 03:07 G 17521140.45 17521140.63 17521140.83 0.0136 0.0033

Uranus 43259-05-24 11:02 G 17521228.76 17521228.96 17521229.15 0.0136 0.0005

Uranus 43259-08-20 18:29 G 17521317.08 17521317.27 17521317.47 0.0136 0.0024

Uranus 43259-11-17 02:10 G 17521405.41 17521405.59 17521405.77 0.0136 0.0052

Uranus 43260-02-13 09:36 G 17521493.75 17521493.90 17521494.07 0.0136 0.0080

Uranus 43260-05-11 17:17 G 17521582.11 17521582.22 17521582.34 0.0136 0.0107

Jupiter 43260-06-18 16:05 G 17521620.05 17521620.17 17521620.30 0.0518 0.0053

Uranus 43260-08-08 00:29 G 17521670.52 17521670.52 17521670.56 0.0136 0.0135

Mars 43262-10-04 05:17 G 17522457.56 17522457.72 17522457.88 0.1594 0.0613

Venus 43264-07-26 23:17 G 17523119.38 17523119.47 17523119.55 0.3689 0.1780

Saturn 43264-09-08 01:26 G 17523162.38 17523162.56 17523162.75 0.0272 0.0082

Saturn 43264-12-06 00:29 G 17523251.35 17523251.52 17523251.70 0.0273 0.0115

Jupiter 43266-08-11 01:12 G 17523864.36 17523864.55 17523864.74 0.0508 0.0082

Moon 43267-09-09 06:00 G 17524258.66 17524258.75 17524258.84 0.2658 0.1372

Earth 43267-09-09 06:29 G 17524258.68 17524258.77 17524258.86 0.2653 0.1478 *

Mars 43272-02-24 06:58 G 17525887.64 17525887.79 17525887.94 0.1595 0.0764

Jupiter 43272-04-06 20:24 G 17525930.23 17525930.35 17525930.46 0.0518 0.0209

Jupiter 43272-07-05 00:14 G 17526019.42 17526019.51 17526019.59 0.0516 0.0378

Moon 43274-09-02 08:10 G 17526808.77 17526808.84 17526808.91 0.2648 0.1944

Earth 43274-09-02 08:24 G 17526808.78 17526808.85 17526808.92 0.2654 0.1960 *

Saturn 43277-10-21 18:29 G 17527954.18 17527954.27 17527954.37 0.0292 0.0202

Saturn 43278-01-18 06:00 G 17528042.62 17528042.75 17528042.88 0.0291 0.0045

Saturn 43278-04-16 17:17 G 17528131.10 17528131.22 17528131.34 0.0290 0.0111

Jupiter 43278-05-29 21:22 G 17528174.24 17528174.39 17528174.55 0.0508 0.0295

Saturn 43278-07-14 04:34 G 17528219.65 17528219.69 17528219.74 0.0289 0.0265

Jupiter 43284-01-25 00:43 G 17530240.44 17530240.53 17530240.62 0.0518 0.0361

Moon 43284-03-08 17:17 G 17530284.06 17530284.22 17530284.38 0.2682 0.0044

Earth 43284-03-08 18:58 G 17530284.13 17530284.29 17530284.46 0.2678 0.0270 *

Jupiter 43284-04-23 04:34 G 17530329.58 17530329.69 17530329.81 0.0516 0.0228

Venus 43285-03-04 21:07 G 17530645.30 17530645.38 17530645.47 0.3681 0.3071

Neptune 43285-12-29 09:22 G 17530944.86 17530944.89 17530944.92 0.0089 0.0085

Neptune 43286-03-27 10:19 G 17531032.88 17531032.93 17531033.00 0.0089 0.0078

Neptune 43286-06-23 12:00 G 17531120.92 17531121.00 17531121.07 0.0089 0.0070

Neptune 43286-09-19 12:58 G 17531208.96 17531209.04 17531209.14 0.0089 0.0063

Neptune 43286-12-16 14:24 G 17531297.00 17531297.10 17531297.20 0.0089 0.0055

Neptune 43287-03-14 15:36 G 17531385.04 17531385.15 17531385.26 0.0089 0.0048

Neptune 43287-06-10 16:48 G 17531473.09 17531473.20 17531473.32 0.0089 0.0040

Moon 43287-09-05 00:43 G 17531559.43 17531559.53 17531559.63 0.2651 0.0818

Earth 43287-09-05 01:12 G 17531559.45 17531559.55 17531559.66 0.2654 0.0735 *

Neptune 43287-09-06 18:00 G 17531561.14 17531561.25 17531561.38 0.0089 0.0033

Neptune 43287-12-03 19:26 G 17531649.18 17531649.31 17531649.44 0.0089 0.0025

Mars 43288-02-29 12:14 G 17531736.91 17531737.01 17531737.12 0.1939 0.0751

Neptune 43288-02-29 20:38 G 17531737.23 17531737.36 17531737.49 0.0089 0.0018

Neptune 43288-05-27 21:50 G 17531825.28 17531825.41 17531825.54 0.0089 0.0010

Neptune 43288-08-23 23:17 G 17531913.34 17531913.47 17531913.60 0.0089 0.0003

Neptune 43288-11-20 00:29 G 17532001.39 17532001.52 17532001.65 0.0089 0.0005

Neptune 43289-02-16 01:41 G 17532089.44 17532089.57 17532089.70 0.0089 0.0013

Neptune 43289-05-15 02:53 G 17532177.50 17532177.62 17532177.75 0.0089 0.0020

Neptune 43289-08-11 04:05 G 17532265.55 17532265.67 17532265.80 0.0089 0.0028

Neptune 43289-11-07 05:31 G 17532353.61 17532353.73 17532353.85 0.0089 0.0035

Neptune 43290-02-03 06:43 G 17532441.67 17532441.78 17532441.90 0.0089 0.0043

Neptune 43290-05-02 07:41 G 17532529.73 17532529.82 17532529.94 0.0089 0.0051

Jupiter 43290-06-16 07:55 G 17532574.70 17532574.83 17532574.96 0.0509 0.0364

Neptune 43290-07-29 09:07 G 17532617.79 17532617.88 17532617.99 0.0089 0.0058

Neptune 43290-10-25 10:19 G 17532705.85 17532705.93 17532706.03 0.0089 0.0066

Neptune 43291-01-21 11:46 G 17532793.92 17532793.99 17532794.07 0.0089 0.0073

Neptune 43291-04-19 12:43 G 17532881.99 17532882.03 17532882.10 0.0089 0.0081

Neptune 43291-07-16 14:10 G 17532970.09 17532970.09 17532970.12 0.0089 0.0088

Saturn 43294-01-26 01:41 G 17533894.40 17533894.57 17533894.74 0.0272 0.0124

Saturn 43294-04-25 00:58 G 17533983.35 17533983.54 17533983.72 0.0273 0.0072

Saturn 43294-07-22 23:46 G 17534072.47 17534072.49 17534072.53 0.0274 0.0270

Jupiter 43295-11-13 05:02 G 17534550.70 17534550.71 17534550.72 0.0519 0.0515

Jupiter 43296-02-10 09:07 G 17534639.75 17534639.88 17534640.00 0.0517 0.0076

Mars 43297-07-21 20:24 G 17535167.25 17535167.35 17535167.46 0.1938 0.0742

Moon 43300-09-07 17:31 G 17536310.13 17536310.23 17536310.34 0.2655 0.0393

Earth 43300-09-07 18:14 G 17536310.15 17536310.26 17536310.36 0.2653 0.0499 *

Uranus 43301-08-26 20:10 G 17536663.33 17536663.34 17536663.36 0.0141 0.0139

Uranus 43301-11-22 23:31 G 17536751.42 17536751.48 17536751.55 0.0141 0.0119

Uranus 43302-02-19 02:53 G 17536839.53 17536839.62 17536839.72 0.0141 0.0098

Jupiter 43302-04-05 03:22 G 17536884.46 17536884.64 17536884.82 0.0508 0.0139

Mars 43302-04-05 06:00 G 17536884.61 17536884.75 17536884.90 0.1594 0.0835 *

Uranus 43302-05-18 06:14 G 17536927.66 17536927.76 17536927.87 0.0142 0.0077

Uranus 43302-08-14 09:36 G 17537015.78 17537015.90 17537016.02 0.0142 0.0057

Uranus 43302-11-10 12:58 G 17537103.92 17537104.04 17537104.17 0.0142 0.0036

Uranus 43303-02-06 16:19 G 17537192.05 17537192.18 17537192.31 0.0142 0.0015

Uranus 43303-05-05 19:55 G 17537280.20 17537280.33 17537280.46 0.0142 0.0008

Uranus 43303-08-01 23:17 G 17537368.34 17537368.47 17537368.60 0.0142 0.0028

Uranus 43303-10-29 02:38 G 17537456.49 17537456.61 17537456.73 0.0142 0.0049

Uranus 43304-01-25 06:00 G 17537544.64 17537544.75 17537544.87 0.0142 0.0071

Uranus 43304-04-22 09:22 G 17537632.80 17537632.89 17537632.99 0.0142 0.0093

Uranus 43304-07-19 12:43 G 17537720.96 17537721.03 17537721.12 0.0142 0.0114

Uranus 43304-10-15 16:19 G 17537809.15 17537809.18 17537809.22 0.0142 0.0136

Saturn 43307-03-11 21:50 G 17538686.34 17538686.41 17538686.49 0.0292 0.0234

Pluto 43307-04-15 10:34 G 17538720.85 17538720.94 17538721.06 0.0075 0.0063

Saturn 43307-06-08 09:22 G 17538774.77 17538774.89 17538775.02 0.0291 0.0076

Pluto 43307-07-12 13:12 G 17538808.90 17538809.05 17538809.22 0.0075 0.0042

Saturn 43307-09-04 20:53 G 17538863.24 17538863.37 17538863.49 0.0290 0.0081

Pluto 43307-10-08 15:50 G 17538896.98 17538897.16 17538897.35 0.0075 0.0022

Jupiter 43307-11-30 13:55 G 17538949.95 17538950.08 17538950.20 0.0518 0.0069

Saturn 43307-12-02 07:55 G 17538951.76 17538951.83 17538951.91 0.0288 0.0235

Pluto 43308-01-04 18:29 G 17538985.07 17538985.27 17538985.46 0.0075 0.0002

Pluto 43308-04-01 20:38 G 17539073.18 17539073.36 17539073.56 0.0075 0.0018

Pluto 43308-06-28 23:02 G 17539161.31 17539161.46 17539161.65 0.0075 0.0038

Pluto 43308-09-25 01:41 G 17539249.46 17539249.57 17539249.70 0.0075 0.0057

Venus 43310-02-02 13:41 G 17539744.98 17539745.07 17539745.16 0.3690 0.1657

Mars 43311-08-26 07:41 G 17540314.66 17540314.82 17540314.98 0.1594 0.0546

Moon 43313-09-10 10:48 G 17541060.87 17541060.95 17541061.03 0.2658 0.1729

Earth 43313-09-10 11:02 G 17541060.88 17541060.96 17541061.04 0.2652 0.1724 *

Jupiter 43314-01-21 21:50 G 17541194.23 17541194.41 17541194.60 0.0508 0.0099

Venus 43315-08-19 05:02 G 17541768.61 17541768.71 17541768.82 0.3689 0.0452

Moon 43317-03-07 13:41 G 17542335.03 17542335.07 17542335.11 0.2679 0.2584

Earth 43317-03-07 15:50 G 17542335.08 17542335.16 17542335.23 0.2678 0.2369 *

Jupiter 43319-09-18 18:43 G 17543260.16 17543260.28 17543260.39 0.0518 0.0214

Jupiter 43319-12-16 22:34 G 17543349.36 17543349.44 17543349.53 0.0516 0.0374

Moon 43320-09-03 12:43 G 17543610.95 17543611.03 17543611.11 0.2649 0.1786

Earth 43320-09-03 12:58 G 17543610.96 17543611.04 17543611.12 0.2654 0.1714 *

Venus 43321-03-03 20:38 G 17543792.28 17543792.36 17543792.43 0.3689 0.2544

Saturn 43323-06-16 01:55 G 17544626.43 17544626.58 17544626.73 0.0271 0.0166

Saturn 43323-09-13 00:58 G 17544715.35 17544715.54 17544715.73 0.0272 0.0029

Saturn 43323-12-11 00:00 G 17544804.40 17544804.50 17544804.62 0.0273 0.0226

Jupiter 43325-11-09 17:31 G 17545504.09 17545504.23 17545504.38 0.0507 0.0318

Mars 43327-08-31 12:14 G 17546163.91 17546164.01 17546164.11 0.1939 0.0888

Moon 43330-03-11 00:43 G 17547086.37 17547086.53 17547086.68 0.2682 0.0751

Earth 43330-03-11 02:10 G 17547086.43 17547086.59 17547086.75 0.2678 0.0860 *

Jupiter 43331-07-07 22:48 G 17547570.37 17547570.45 17547570.54 0.0518 0.0371

Jupiter 43331-10-05 02:53 G 17547659.50 17547659.62 17547659.73 0.0517 0.0219

Moon 43333-09-06 05:17 G 17548361.62 17548361.72 17548361.83 0.2651 0.0562

Earth 43333-09-06 06:00 G 17548361.64 17548361.75 17548361.86 0.2654 0.0484 *

Saturn 43336-07-29 01:12 G 17549418.51 17549418.55 17549418.60 0.0293 0.0267

Saturn 43336-10-25 12:43 G 17549506.91 17549507.03 17549507.15 0.0291 0.0109

Mars 43337-01-20 20:38 G 17549594.25 17549594.36 17549594.47 0.1939 0.0557

Saturn 43337-01-22 00:14 G 17549595.38 17549595.51 17549595.63 0.0290 0.0049

Saturn 43337-04-20 11:17 G 17549683.89 17549683.97 17549684.07 0.0289 0.0204

Jupiter 43337-11-27 04:34 G 17549904.55 17549904.69 17549904.83 0.0509 0.0347

Mars 43341-10-04 06:43 G 17551311.66 17551311.78 17551311.91 0.1594 0.1058

Venus 43341-10-10 23:31 G 17551318.33 17551318.48 17551318.63 0.3681 0.0686

Uranus 43342-06-26 10:48 G 17551576.85 17551576.95 17551577.07 0.0137 0.0112

Uranus 43342-09-22 18:43 G 17551665.13 17551665.28 17551665.44 0.0137 0.0083

Uranus 43342-12-20 02:24 G 17551753.42 17551753.60 17551753.78 0.0136 0.0055

Uranus 43343-03-18 10:05 G 17551841.73 17551841.92 17551842.12 0.0136 0.0026

Uranus 43343-06-14 17:46 G 17551930.05 17551930.24 17551930.44 0.0136 0.0003

Jupiter 43343-07-24 07:26 G 17551969.68 17551969.81 17551969.93 0.0517 0.0071

Uranus 43343-09-11 01:26 G 17552018.37 17552018.56 17552018.75 0.0136 0.0030

Uranus 43343-12-08 08:53 G 17552106.70 17552106.87 17552107.06 0.0136 0.0058

Uranus 43344-03-05 16:19 G 17552195.05 17552195.18 17552195.35 0.0136 0.0086

Uranus 43344-06-02 00:14 G 17552283.41 17552283.51 17552283.62 0.0136 0.0113

Moon 43346-09-08 22:19 G 17553112.33 17553112.43 17553112.53 0.2656 0.0669

Earth 43346-09-08 22:48 G 17553112.35 17553112.45 17553112.56 0.2653 0.0750 *

Jupiter 43349-09-15 00:29 G 17554214.34 17554214.52 17554214.70 0.0508 0.0127

Mars 43351-02-24 08:24 G 17554741.68 17554741.85 17554742.02 0.1594 0.0321

Saturn 43352-11-02 01:41 G 17555358.46 17555358.57 17555358.70 0.0271 0.0211

Saturn 43353-01-30 00:58 G 17555447.35 17555447.54 17555447.73 0.0272 0.0015

Saturn 43353-04-29 00:00 G 17555536.37 17555536.50 17555536.65 0.0273 0.0182

Jupiter 43355-05-12 11:46 G 17556279.86 17556279.99 17556280.11 0.0518 0.0085

Jupiter 43355-08-09 15:36 G 17556369.12 17556369.15 17556369.17 0.0516 0.0501

Moon 43359-09-11 15:36 G 17557863.08 17557863.15 17557863.22 0.2658 0.1892

Earth 43359-09-11 15:50 G 17557863.09 17557863.16 17557863.23 0.2652 0.1964 *

Venus 43361-02-23 19:41 G 17558394.26 17558394.32 17558394.38 0.3690 0.2977

Jupiter 43361-07-03 19:55 G 17558524.14 17558524.33 17558524.51 0.0508 0.0098

Moon 43363-03-08 20:53 G 17559137.27 17559137.37 17559137.47 0.2679 0.2073

Earth 43363-03-08 22:48 G 17559137.33 17559137.45 17559137.57 0.2678 0.1781 *

Saturn 43366-03-14 16:05 G 17560239.06 17560239.17 17560239.28 0.0291 0.0141

Saturn 43366-06-11 03:36 G 17560327.52 17560327.65 17560327.78 0.0290 0.0018

Moon 43366-09-04 17:17 G 17560413.13 17560413.22 17560413.31 0.2649 0.1470

Earth 43366-09-04 17:46 G 17560413.15 17560413.24 17560413.33 0.2654 0.1471 *

Saturn 43366-09-07 14:53 G 17560416.02 17560416.12 17560416.22 0.0289 0.0171

Venus 43366-09-09 11:02 G 17560417.86 17560417.96 17560418.06 0.3689 0.0904

Jupiter 43367-02-28 16:34 G 17560590.07 17560590.19 17560590.30 0.0518 0.0231

Mars 43367-03-01 12:14 G 17560590.91 17560591.01 17560591.10 0.1939 0.1066

Jupiter 43367-05-28 20:24 G 17560679.26 17560679.35 17560679.44 0.0517 0.0359

Neptune 43370-06-02 11:02 G 17561779.91 17561779.96 17561780.07 0.0089 0.0081

Neptune 43370-08-29 15:07 G 17561868.02 17561868.13 17561868.27 0.0089 0.0069

Neptune 43370-11-25 18:58 G 17561956.15 17561956.29 17561956.45 0.0089 0.0058

Neptune 43371-02-21 23:02 G 17562044.29 17562044.46 17562044.63 0.0089 0.0046

Neptune 43371-05-21 02:38 G 17562132.43 17562132.61 17562132.80 0.0089 0.0035

Neptune 43371-08-17 06:14 G 17562220.58 17562220.76 17562220.96 0.0089 0.0024

Neptune 43371-11-13 10:19 G 17562308.73 17562308.93 17562309.12 0.0089 0.0012

Neptune 43372-02-09 13:55 G 17562396.89 17562397.08 17562397.28 0.0089 0.0002

Venus 43372-03-25 02:24 G 17562441.51 17562441.60 17562441.70 0.3689 0.1208

Neptune 43372-05-07 17:46 G 17562485.04 17562485.24 17562485.44 0.0089 0.0011

Neptune 43372-08-03 21:22 G 17562573.20 17562573.39 17562573.59 0.0089 0.0022

Neptune 43372-10-31 00:58 G 17562661.37 17562661.54 17562661.73 0.0089 0.0034

Neptune 43373-01-27 04:48 G 17562749.54 17562749.70 17562749.88 0.0089 0.0045

Jupiter 43373-04-21 14:38 G 17562833.97 17562834.11 17562834.25 0.0507 0.0331

Neptune 43373-04-25 08:38 G 17562837.71 17562837.86 17562838.02 0.0089 0.0056

Neptune 43373-07-22 12:00 G 17562925.89 17562926.00 17562926.15 0.0089 0.0068

Neptune 43373-10-18 15:36 G 17563014.08 17563014.15 17563014.26 0.0089 0.0079

Moon 43376-03-11 08:10 G 17563888.70 17563888.84 17563888.98 0.2684 0.1291

Earth 43376-03-11 09:07 G 17563888.75 17563888.88 17563889.02 0.2678 0.1446 *

Mars 43376-07-21 20:24 G 17564021.24 17564021.35 17564021.46 0.1938 0.0407

Venus 43377-10-08 18:00 G 17564465.21 17564465.25 17564465.29 0.3688 0.3321

Jupiter 43378-12-17 21:07 G 17564900.30 17564900.38 17564900.47 0.0519 0.0377

Jupiter 43379-03-17 01:12 G 17564989.43 17564989.55 17564989.66 0.0517 0.0215

Moon 43379-09-07 10:05 G 17565163.81 17565163.92 17565164.03 0.2652 0.0358

Earth 43379-09-07 10:48 G 17565163.84 17565163.95 17565164.05 0.2654 0.0257 *

Mars 43381-04-04 07:26 G 17565738.71 17565738.81 17565738.91 0.1594 0.1271

Saturn 43382-03-22 01:41 G 17566090.51 17566090.57 17566090.64 0.0271 0.0255

Saturn 43382-06-19 00:58 G 17566179.35 17566179.54 17566179.73 0.0272 0.0060

Saturn 43382-09-16 00:00 G 17566268.34 17566268.50 17566268.67 0.0273 0.0137

Jupiter 43385-05-09 00:58 G 17567234.40 17567234.54 17567234.69 0.0509 0.0327

Uranus 43385-09-16 02:53 G 17567364.60 17567364.62 17567364.66 0.0141 0.0137

Mars 43385-12-12 04:48 G 17567451.67 17567451.70 17567451.73 0.1937 0.1863

Uranus 43385-12-13 06:14 G 17567452.69 17567452.76 17567452.84 0.0141 0.0117

Uranus 43386-03-11 09:36 G 17567540.81 17567540.90 17567541.00 0.0142 0.0096

Uranus 43386-06-07 12:58 G 17567628.94 17567629.04 17567629.16 0.0142 0.0075

Uranus 43386-09-03 16:19 G 17567717.06 17567717.18 17567717.30 0.0142 0.0054

Uranus 43386-11-30 19:41 G 17567805.20 17567805.32 17567805.45 0.0142 0.0033

Uranus 43387-02-26 23:02 G 17567893.33 17567893.46 17567893.60 0.0142 0.0013

Uranus 43387-05-26 02:38 G 17567981.48 17567981.61 17567981.74 0.0142 0.0010

Uranus 43387-08-22 06:00 G 17568069.62 17568069.75 17568069.88 0.0142 0.0031

Uranus 43387-11-18 09:22 G 17568157.77 17568157.89 17568158.01 0.0142 0.0052

Uranus 43388-02-14 12:43 G 17568245.92 17568246.03 17568246.14 0.0142 0.0073

Uranus 43388-05-12 16:05 G 17568334.08 17568334.17 17568334.27 0.0142 0.0095

Uranus 43388-08-08 19:41 G 17568422.25 17568422.32 17568422.39 0.0142 0.0117

Uranus 43388-11-04 23:02 G 17568510.44 17568510.46 17568510.49 0.0142 0.0138

Mars 43390-08-25 09:07 G 17569168.71 17569168.88 17569169.05 0.1595 0.0107

Jupiter 43391-01-03 05:31 G 17569299.60 17569299.73 17569299.85 0.0517 0.0060

Moon 43392-09-09 03:07 G 17569914.53 17569914.63 17569914.73 0.2657 0.0923

Earth 43392-09-09 03:36 G 17569914.55 17569914.65 17569914.75 0.2653 0.0985 *

Saturn 43395-08-01 19:12 G 17570971.20 17570971.30 17570971.41 0.0292 0.0176

Saturn 43395-10-29 06:43 G 17571059.65 17571059.78 17571059.91 0.0291 0.0018

Saturn 43396-01-25 18:00 G 17571148.14 17571148.25 17571148.37 0.0290 0.0138

Jupiter 43397-02-24 21:07 G 17571544.20 17571544.38 17571544.57 0.0509 0.0112

Venus 43398-05-18 01:55 G 17571991.44 17571991.58 17571991.71 0.3681 0.1671

Moon 43399-09-03 05:31 G 17572464.69 17572464.73 17572464.78 0.2649 0.2388

Earth 43399-09-03 05:31 G 17572464.69 17572464.73 17572464.77 0.2655 0.2457 *

Mars 43400-01-15 10:34 G 17572598.88 17572598.94 17572599.00 0.1596 0.1489

Jupiter 43402-10-23 10:05 G 17573609.80 17573609.92 17573610.04 0.0517 0.0089

Jupiter 43403-01-20 13:55 G 17573699.05 17573699.08 17573699.11 0.0516 0.0497

Moon 43405-09-12 20:24 G 17574665.30 17574665.35 17574665.41 0.2658 0.2217

Earth 43405-09-12 20:38 G 17574665.30 17574665.36 17574665.42 0.2652 0.2207 *

Mars 43406-08-31 12:14 G 17575017.92 17575018.01 17575018.09 0.1939 0.1237

Jupiter 43408-12-14 17:17 G 17575854.03 17575854.22 17575854.40 0.0508 0.0107

Moon 43409-03-10 03:50 G 17575939.52 17575939.66 17575939.81 0.2680 0.1368

Earth 43409-03-10 05:46 G 17575939.60 17575939.74 17575939.89 0.2678 0.1204 *

Saturn 43411-11-07 00:14 G 17576911.34 17576911.51 17576911.69 0.0272 0.0109

Saturn 43412-02-03 23:17 G 17577000.29 17577000.47 17577000.66 0.0273 0.0088

Moon 43412-09-05 22:05 G 17577215.33 17577215.42 17577215.51 0.2649 0.1346

Earth 43412-09-05 22:34 G 17577215.34 17577215.44 17577215.53 0.2654 0.1227 *

Jupiter 43414-08-11 14:24 G 17577919.99 17577920.10 17577920.21 0.0518 0.0243

Jupiter 43414-11-08 18:14 G 17578009.17 17578009.26 17578009.35 0.0516 0.0346

Mars 43416-01-21 20:24 G 17578448.24 17578448.35 17578448.46 0.1938 0.0241

Venus 43417-10-01 17:02 G 17579067.13 17579067.21 17579067.29 0.3690 0.2226

Jupiter 43420-10-02 12:43 G 17580163.89 17580164.03 17580164.18 0.0507 0.0328

Mars 43420-10-04 08:10 G 17580165.78 17580165.84 17580165.90 0.1594 0.1492

Moon 43422-03-13 15:22 G 17580691.03 17580691.14 17580691.25 0.2685 0.1911

Earth 43422-03-13 16:19 G 17580691.07 17580691.18 17580691.28 0.2679 0.2027 *

Venus 43423-04-17 08:24 G 17581090.75 17581090.85 17581090.96 0.3689 0.0214

Saturn 43424-12-19 22:19 G 17581703.35 17581703.43 17581703.52 0.0292 0.0211

Saturn 43425-03-18 09:50 G 17581791.78 17581791.91 17581792.04 0.0291 0.0053

Mars 43425-06-13 04:48 G 17581878.64 17581878.70 17581878.75 0.1937 0.1695

Saturn 43425-06-14 21:07 G 17581880.26 17581880.38 17581880.50 0.0290 0.0103

Moon 43425-09-08 14:53 G 17581966.01 17581966.12 17581966.22 0.2654 0.0124

Earth 43425-09-08 15:22 G 17581966.03 17581966.14 17581966.25 0.2653 0.0036 *

Saturn 43425-09-11 08:24 G 17581968.80 17581968.85 17581968.91 0.0288 0.0257

Uranus 43426-04-20 09:36 G 17582189.88 17582189.90 17582189.94 0.0137 0.0135

Jupiter 43426-05-30 19:12 G 17582230.22 17582230.30 17582230.38 0.0519 0.0389

Uranus 43426-07-17 17:17 G 17582278.11 17582278.22 17582278.36 0.0137 0.0107

Jupiter 43426-08-27 23:02 G 17582319.35 17582319.46 17582319.58 0.0517 0.0202

Uranus 43426-10-14 01:12 G 17582366.40 17582366.55 17582366.72 0.0137 0.0078

Uranus 43427-01-10 08:53 G 17582454.70 17582454.87 17582455.06 0.0137 0.0050

Uranus 43427-04-08 16:48 G 17582543.01 17582543.20 17582543.40 0.0136 0.0021

Uranus 43427-07-06 00:29 G 17582631.33 17582631.52 17582631.72 0.0136 0.0008

Uranus 43427-10-02 08:10 G 17582719.65 17582719.84 17582720.03 0.0136 0.0035

Uranus 43427-12-29 15:36 G 17582807.99 17582808.15 17582808.33 0.0136 0.0064

Uranus 43428-03-26 23:17 G 17582896.33 17582896.47 17582896.62 0.0136 0.0091

Uranus 43428-06-23 06:43 G 17582984.70 17582984.78 17582984.88 0.0136 0.0119

Venus 43428-10-31 00:00 G 17583114.41 17583114.50 17583114.58 0.3689 0.1969

Mars 43430-02-24 09:36 G 17583595.73 17583595.90 17583596.07 0.1595 0.0116

Jupiter 43432-10-19 22:19 G 17584564.29 17584564.43 17584564.58 0.0508 0.0319

Jupiter 43438-06-16 03:50 G 17586629.54 17586629.66 17586629.79 0.0518 0.0059

Moon 43438-09-11 07:55 G 17586716.73 17586716.83 17586716.92 0.2657 0.1135

Earth 43438-09-11 08:24 G 17586716.75 17586716.85 17586716.94 0.2653 0.1226 *

Mars 43439-07-17 11:17 G 17587025.87 17587025.97 17587026.07 0.1596 0.1275

Saturn 43441-03-25 23:31 G 17587643.33 17587643.48 17587643.64 0.0271 0.0158

Saturn 43441-06-22 22:48 G 17587732.26 17587732.45 17587732.64 0.0272 0.0037

Saturn 43441-09-19 21:36 G 17587821.32 17587821.40 17587821.51 0.0273 0.0236

Jupiter 43444-08-07 18:14 G 17588874.08 17588874.26 17588874.45 0.0508 0.0100

Moon 43445-09-04 10:05 G 17589266.87 17589266.92 17589266.98 0.2649 0.2252

Earth 43445-09-04 10:19 G 17589266.87 17589266.93 17589266.98 0.2655 0.2211 *

Mars 43446-03-01 12:00 G 17589444.92 17589445.00 17589445.08 0.1939 0.1381

Venus 43449-06-08 18:14 G 17590640.18 17590640.26 17590640.34 0.3681 0.3169

Jupiter 43450-04-04 08:24 G 17590939.72 17590939.85 17590939.97 0.0518 0.0096

Jupiter 43450-07-02 12:14 G 17591028.97 17591029.01 17591029.04 0.0516 0.0491

Neptune 43450-09-27 09:07 G 17591115.84 17591115.88 17591115.94 0.0089 0.0082

Neptune 43450-12-24 10:34 G 17591203.87 17591203.94 17591204.01 0.0089 0.0074

Neptune 43451-03-22 11:31 G 17591291.91 17591291.98 17591292.08 0.0089 0.0067

Neptune 43451-06-18 12:58 G 17591379.95 17591380.04 17591380.14 0.0089 0.0059

Moon 43451-09-14 01:26 G 17591467.52 17591467.56 17591467.59 0.2659 0.2468

Earth 43451-09-14 01:12 G 17591467.52 17591467.55 17591467.59 0.2652 0.2450 *

Neptune 43451-09-14 14:10 G 17591467.99 17591468.09 17591468.20 0.0089 0.0052

Neptune 43451-12-11 15:36 G 17591556.04 17591556.15 17591556.27 0.0089 0.0044

Neptune 43452-03-08 16:48 G 17591644.09 17591644.20 17591644.32 0.0089 0.0036

Neptune 43452-06-04 18:00 G 17591732.13 17591732.25 17591732.38 0.0089 0.0029

Neptune 43452-08-31 19:12 G 17591820.18 17591820.30 17591820.44 0.0089 0.0022

Neptune 43452-11-27 20:38 G 17591908.23 17591908.36 17591908.49 0.0089 0.0014

Neptune 43453-02-23 21:50 G 17591996.28 17591996.41 17591996.55 0.0089 0.0007

Neptune 43453-05-22 23:17 G 17592084.34 17592084.47 17592084.60 0.0089 0.0003

Neptune 43453-08-19 00:29 G 17592172.39 17592172.52 17592172.65 0.0089 0.0009

Neptune 43453-11-15 01:41 G 17592260.44 17592260.57 17592260.70 0.0089 0.0016

Neptune 43454-02-11 02:53 G 17592348.50 17592348.62 17592348.75 0.0089 0.0024

Saturn 43454-05-09 01:26 G 17592435.49 17592435.56 17592435.62 0.0293 0.0249

Neptune 43454-05-10 04:05 G 17592436.55 17592436.67 17592436.80 0.0089 0.0032

Saturn 43454-08-05 12:43 G 17592523.91 17592524.03 17592524.16 0.0291 0.0091

Neptune 43454-08-06 05:31 G 17592524.61 17592524.73 17592524.85 0.0089 0.0039

Saturn 43454-11-02 00:14 G 17592612.38 17592612.51 17592612.64 0.0290 0.0067

Neptune 43454-11-02 06:43 G 17592612.67 17592612.78 17592612.89 0.0089 0.0047

Neptune 43455-01-29 07:41 G 17592700.73 17592700.82 17592700.94 0.0089 0.0055

Saturn 43455-01-29 11:31 G 17592700.90 17592700.98 17592701.06 0.0289 0.0222 *

Moon 43455-03-11 11:17 G 17592741.82 17592741.97 17592742.13 0.2681 0.0904

Earth 43455-03-11 12:58 G 17592741.88 17592742.04 17592742.20 0.2678 0.0608 *

Neptune 43455-04-27 09:07 G 17592788.80 17592788.88 17592788.98 0.0089 0.0062

Mars 43455-07-22 20:24 G 17592875.24 17592875.35 17592875.46 0.1938 0.0070

Neptune 43455-07-24 10:19 G 17592876.86 17592876.93 17592877.02 0.0089 0.0070

Neptune 43455-10-20 11:46 G 17592964.93 17592964.99 17592965.06 0.0089 0.0077

Neptune 43456-01-16 12:43 G 17593053.01 17593053.03 17593053.09 0.0089 0.0085

Jupiter 43456-05-26 14:24 G 17593183.91 17593184.10 17593184.28 0.0508 0.0118

Moon 43458-09-07 02:38 G 17594017.51 17594017.61 17594017.71 0.2649 0.0990

Earth 43458-09-07 03:07 G 17594017.53 17594017.63 17594017.73 0.2654 0.0985 *

Jupiter 43462-01-21 12:58 G 17595249.93 17595250.04 17595250.15 0.0518 0.0243

Jupiter 43462-04-20 16:48 G 17595339.11 17595339.20 17595339.30 0.0516 0.0345

Mars 43464-12-12 04:48 G 17596305.63 17596305.70 17596305.76 0.1936 0.1528

Moon 43468-03-13 22:34 G 17597493.39 17597493.44 17597493.48 0.2685 0.2562

Earth 43468-03-13 23:17 G 17597493.44 17597493.47 17597493.51 0.2679 0.2614 *

Jupiter 43468-03-14 10:34 G 17597493.79 17597493.94 17597494.08 0.0508 0.0333

Venus 43468-10-22 23:17 G 17597716.44 17597716.47 17597716.49 0.3690 0.3544

Pluto 43469-04-09 06:00 G 17597884.70 17597884.75 17597884.83 0.0068 0.0059

Pluto 43469-07-06 06:58 G 17597972.70 17597972.79 17597972.88 0.0068 0.0049

Mars 43469-08-25 10:34 G 17598022.77 17598022.94 17598023.11 0.1594 0.0339

Pluto 43469-10-02 07:12 G 17598060.70 17598060.80 17598060.92 0.0068 0.0039

Uranus 43469-10-07 09:36 G 17598065.87 17598065.90 17598065.94 0.0141 0.0135

Pluto 43469-12-29 07:41 G 17598148.71 17598148.82 17598148.96 0.0069 0.0029

Uranus 43470-01-03 12:58 G 17598153.97 17598154.04 17598154.12 0.0141 0.0115

Pluto 43470-03-27 08:24 G 17598236.73 17598236.85 17598236.99 0.0069 0.0018

Uranus 43470-04-01 16:05 G 17598242.09 17598242.17 17598242.28 0.0141 0.0095

Pluto 43470-06-23 09:07 G 17598324.75 17598324.88 17598325.01 0.0069 0.0007

Uranus 43470-06-28 19:41 G 17598330.21 17598330.32 17598330.43 0.0142 0.0073

Saturn 43470-08-12 22:19 G 17598375.32 17598375.43 17598375.56 0.0271 0.0210

Pluto 43470-09-19 09:36 G 17598412.77 17598412.90 17598413.03 0.0069 0.0003

Uranus 43470-09-24 23:02 G 17598418.34 17598418.46 17598418.58 0.0142 0.0052

Saturn 43470-11-09 21:36 G 17598464.21 17598464.40 17598464.59 0.0272 0.0015

Pluto 43470-12-16 10:05 G 17598500.79 17598500.92 17598501.05 0.0069 0.0014

Uranus 43470-12-22 02:24 G 17598506.47 17598506.60 17598506.73 0.0142 0.0031

Saturn 43471-02-06 20:38 G 17598553.22 17598553.36 17598553.51 0.0273 0.0182

Pluto 43471-03-14 10:48 G 17598588.82 17598588.95 17598589.07 0.0069 0.0024

Uranus 43471-03-20 05:46 G 17598594.61 17598594.74 17598594.87 0.0142 0.0010

Pluto 43471-06-10 11:02 G 17598676.86 17598676.96 17598677.08 0.0069 0.0035

Uranus 43471-06-16 09:07 G 17598682.75 17598682.88 17598683.01 0.0142 0.0011

Pluto 43471-09-06 11:31 G 17598764.90 17598764.98 17598765.09 0.0069 0.0046

Moon 43471-09-09 19:26 G 17598768.20 17598768.31 17598768.42 0.2655 0.0098

Earth 43471-09-09 20:10 G 17598768.23 17598768.34 17598768.44 0.2653 0.0251 *

Uranus 43471-09-12 12:29 G 17598770.90 17598771.02 17598771.15 0.0142 0.0033

Pluto 43471-12-03 12:14 G 17598852.94 17598853.01 17598853.09 0.0069 0.0057

Uranus 43471-12-09 15:50 G 17598859.05 17598859.16 17598859.29 0.0142 0.0054

Pluto 43472-02-29 12:43 G 17598941.01 17598941.03 17598941.07 0.0069 0.0068

Uranus 43472-03-06 19:26 G 17598947.20 17598947.31 17598947.42 0.0142 0.0075

Uranus 43472-06-02 22:34 G 17599035.36 17599035.44 17599035.55 0.0142 0.0098

Uranus 43472-08-30 02:10 G 17599123.52 17599123.59 17599123.67 0.0142 0.0119

Uranus 43472-11-26 05:31 G 17599211.72 17599211.73 17599211.76 0.0142 0.0141

Jupiter 43473-11-09 17:31 G 17599560.15 17599560.23 17599560.31 0.0519 0.0396

Jupiter 43474-02-06 21:22 G 17599649.27 17599649.39 17599649.51 0.0517 0.0194

Venus 43474-05-08 14:24 G 17599740.01 17599740.10 17599740.20 0.3690 0.1475

Mars 43479-01-15 12:00 G 17601452.87 17601453.00 17601453.13 0.1596 0.1055

Venus 43479-11-22 06:00 G 17601763.64 17601763.75 17601763.85 0.3689 0.0647

Jupiter 43480-03-31 20:53 G 17601894.23 17601894.37 17601894.52 0.0509 0.0327

Saturn 43483-09-26 03:50 G 17603167.66 17603167.66 17603167.68 0.0293 0.0291

Saturn 43483-12-23 15:36 G 17603256.03 17603256.15 17603256.26 0.0292 0.0131

Saturn 43484-03-21 02:53 G 17603344.49 17603344.62 17603344.75 0.0290 0.0027

Saturn 43484-06-17 14:10 G 17603433.00 17603433.09 17603433.19 0.0289 0.0182

Moon 43484-09-11 12:43 G 17603518.94 17603519.03 17603519.11 0.2657 0.1450

Earth 43484-09-11 12:58 G 17603518.96 17603519.04 17603519.13 0.2653 0.1472 *

Venus 43485-06-06 21:22 G 17603787.32 17603787.39 17603787.45 0.3689 0.2742

Mars 43485-08-30 12:00 G 17603871.94 17603872.00 17603872.07 0.1939 0.1556

Jupiter 43485-11-26 02:10 G 17603959.46 17603959.59 17603959.71 0.0517 0.0050

Moon 43491-09-05 14:38 G 17606069.04 17606069.11 17606069.18 0.2648 0.1968

Earth 43491-09-05 14:53 G 17606069.05 17606069.12 17606069.19 0.2655 0.1965 *

Jupiter 43492-01-18 16:05 G 17606203.99 17606204.17 17606204.36 0.0508 0.0100

Mars 43495-01-20 20:24 G 17607302.23 17607302.35 17607302.46 0.1938 0.0116

Jupiter 43497-09-14 06:58 G 17608269.67 17608269.79 17608269.91 0.0518 0.0095

Jupiter 43497-12-12 10:48 G 17608358.92 17608358.95 17608358.99 0.0516 0.0493

Saturn 43499-12-30 21:07 G 17609107.34 17609107.38 17609107.42 0.0271 0.0265

Saturn 43500-03-29 20:10 G 17609196.15 17609196.34 17609196.53 0.0272 0.0071

Saturn 43500-06-26 19:12 G 17609285.13 17609285.30 17609285.48 0.0273 0.0125

Moon 43501-03-12 18:43 G 17609544.11 17609544.28 17609544.44 0.2683 0.0106

Earth 43501-03-12 20:10 G 17609544.17 17609544.34 17609544.50 0.2678 0.0078 *

Jupiter 43503-11-07 12:14 G 17610513.82 17610514.01 17610514.19 0.0508 0.0119

Mars 43504-06-13 04:34 G 17610732.61 17610732.69 17610732.77 0.1937 0.1378

Moon 43504-09-08 07:26 G 17610819.70 17610819.81 17610819.91 0.2651 0.0861

Earth 43504-09-08 07:55 G 17610819.73 17610819.83 17610819.93 0.2654 0.0737 *

Venus 43506-01-14 20:24 G 17611313.20 17611313.35 17611313.51 0.3681 0.0821

Mars 43509-02-24 11:17 G 17612449.81 17612449.97 17612450.13 0.1595 0.0555

Jupiter 43509-07-04 11:31 G 17612579.87 17612579.98 17612580.09 0.0518 0.0245

Jupiter 43509-10-01 15:22 G 17612669.05 17612669.14 17612669.23 0.0516 0.0343

Uranus 43510-05-11 15:36 G 17612891.11 17612891.15 17612891.21 0.0137 0.0132

Uranus 43510-08-07 23:17 G 17612979.36 17612979.47 17612979.61 0.0137 0.0104

Uranus 43510-11-04 07:12 G 17613067.64 17613067.80 17613067.97 0.0137 0.0075

Uranus 43511-01-31 14:53 G 17613155.95 17613156.12 17613156.31 0.0137 0.0047

Uranus 43511-04-29 22:48 G 17613244.26 17613244.45 17613244.65 0.0136 0.0018

Uranus 43511-07-27 06:29 G 17613332.58 17613332.77 17613332.97 0.0136 0.0010

Uranus 43511-10-23 14:10 G 17613420.90 17613421.09 17613421.28 0.0136 0.0039

Uranus 43512-01-19 21:50 G 17613509.24 17613509.41 17613509.58 0.0136 0.0066

Uranus 43512-04-17 05:17 G 17613597.59 17613597.72 17613597.87 0.0136 0.0094

Uranus 43512-07-14 12:43 G 17613685.96 17613686.03 17613686.13 0.0136 0.0122

Saturn 43513-05-12 18:14 G 17613988.15 17613988.26 17613988.36 0.0292 0.0174

Saturn 43513-08-09 05:31 G 17614076.60 17614076.73 17614076.86 0.0291 0.0016

Saturn 43513-11-05 16:48 G 17614165.10 17614165.20 17614165.32 0.0290 0.0142

Jupiter 43515-08-26 07:55 G 17614823.69 17614823.83 17614823.97 0.0508 0.0339

Moon 43517-09-11 00:14 G 17615570.40 17615570.51 17615570.61 0.2655 0.0463

Earth 43517-09-11 00:43 G 17615570.43 17615570.53 17615570.64 0.2653 0.0499 *

Mars 43518-07-17 12:43 G 17615879.89 17615880.03 17615880.18 0.1596 0.0828

Jupiter 43521-04-22 16:19 G 17616890.10 17616890.18 17616890.26 0.0518 0.0390

Jupiter 43521-07-20 20:10 G 17616979.22 17616979.34 17616979.45 0.0516 0.0199

Mars 43525-03-01 12:00 G 17618298.95 17618299.00 17618299.05 0.1939 0.1730

Venus 43525-05-30 20:38 G 17618389.29 17618389.36 17618389.42 0.3690 0.2796

Jupiter 43527-09-12 18:58 G 17619224.15 17619224.29 17619224.44 0.0509 0.0329

Saturn 43529-08-16 18:14 G 17619928.10 17619928.26 17619928.44 0.0271 0.0129

Saturn 43529-11-13 17:17 G 17620017.04 17620017.22 17620017.42 0.0272 0.0067

Saturn 43530-02-10 16:34 G 17620106.15 17620106.19 17620106.24 0.0273 0.0264

Moon 43530-09-13 17:31 G 17620321.15 17620321.23 17620321.31 0.2658 0.1625

Earth 43530-09-13 17:46 G 17620321.16 17620321.24 17620321.32 0.2653 0.1708 *

Venus 43530-12-14 11:46 G 17620412.90 17620412.99 17620413.09 0.3689 0.0731

Jupiter 43533-05-09 00:43 G 17621289.40 17621289.53 17621289.65 0.0517 0.0051

Earth 43534-03-10 16:48 G 17621595.18 17621595.20 17621595.21 0.2677 0.2662

Mars 43534-07-22 20:10 G 17621729.23 17621729.34 17621729.45 0.1938 0.0245

Neptune 43534-12-03 06:29 G 17621862.74 17621862.77 17621862.84 0.0089 0.0086

Neptune 43535-03-01 10:48 G 17621950.84 17621950.95 17621951.06 0.0089 0.0074

Neptune 43535-05-28 14:10 G 17622038.97 17622039.09 17622039.24 0.0089 0.0063

Neptune 43535-08-24 18:00 G 17622127.10 17622127.25 17622127.42 0.0089 0.0052

Neptune 43535-11-20 22:05 G 17622215.24 17622215.42 17622215.60 0.0089 0.0040

Neptune 43536-02-17 01:41 G 17622303.39 17622303.57 17622303.76 0.0089 0.0029

Neptune 43536-05-15 05:17 G 17622391.54 17622391.72 17622391.93 0.0089 0.0018

Venus 43536-06-29 03:22 G 17622436.54 17622436.64 17622436.73 0.3689 0.1394

Neptune 43536-08-11 09:22 G 17622479.69 17622479.89 17622480.09 0.0089 0.0006

Neptune 43536-11-07 12:58 G 17622567.85 17622568.04 17622568.24 0.0089 0.0006

Neptune 43537-02-03 16:48 G 17622656.01 17622656.20 17622656.39 0.0089 0.0017

Neptune 43537-05-02 20:10 G 17622744.17 17622744.34 17622744.54 0.0089 0.0029

Neptune 43537-07-30 00:00 G 17622832.34 17622832.50 17622832.69 0.0089 0.0040

Moon 43537-09-06 19:26 G 17622871.23 17622871.31 17622871.39 0.2648 0.1762

Earth 43537-09-06 19:41 G 17622871.24 17622871.32 17622871.40 0.2655 0.1720 *

Neptune 43537-10-26 03:50 G 17622920.51 17622920.66 17622920.83 0.0089 0.0051

Neptune 43538-01-22 07:41 G 17623008.68 17623008.82 17623008.96 0.0089 0.0062

Neptune 43538-04-20 11:02 G 17623096.87 17623096.96 17623097.09 0.0089 0.0074

Neptune 43538-07-17 14:53 G 17623185.08 17623185.12 17623185.19 0.0089 0.0085

Jupiter 43539-07-01 14:53 G 17623533.94 17623534.12 17623534.31 0.0508 0.0113

Venus 43542-01-12 18:43 G 17624460.25 17624460.28 17624460.31 0.3689 0.3517

Saturn 43542-09-29 20:10 G 17624720.26 17624720.34 17624720.43 0.0293 0.0222

Saturn 43542-12-27 07:41 G 17624808.70 17624808.82 17624808.95 0.0291 0.0063

Saturn 43543-03-25 19:12 G 17624897.18 17624897.30 17624897.42 0.0290 0.0095

Saturn 43543-06-22 06:29 G 17624985.71 17624985.77 17624985.83 0.0289 0.0250

Mars 43543-12-13 04:34 G 17625159.61 17625159.69 17625159.78 0.1936 0.1199

Jupiter 43545-02-25 05:17 G 17625599.60 17625599.72 17625599.85 0.0518 0.0099

Jupiter 43545-05-25 09:07 G 17625688.85 17625688.88 17625688.92 0.0516 0.0490

Moon 43547-03-14 01:55 G 17626346.42 17626346.58 17626346.74 0.2684 0.0284

Earth 43547-03-14 03:07 G 17626346.47 17626346.63 17626346.79 0.2678 0.0559 *

Mars 43548-08-25 12:00 G 17626876.85 17626877.00 17626877.14 0.1595 0.0773

Moon 43550-09-09 12:00 G 17627621.89 17627622.00 17627622.10 0.2652 0.0549

Earth 43550-09-09 12:29 G 17627621.92 17627622.02 17627622.13 0.2654 0.0507 *

Jupiter 43551-04-19 10:34 G 17627843.76 17627843.94 17627844.12 0.0508 0.0113

Uranus 43553-10-28 16:34 G 17628767.15 17628767.19 17628767.24 0.0141 0.0132

Uranus 43554-01-24 19:55 G 17628855.25 17628855.33 17628855.41 0.0141 0.0112

Uranus 43554-04-22 23:02 G 17628943.37 17628943.46 17628943.57 0.0141 0.0092

Uranus 43554-07-20 02:24 G 17629031.50 17629031.60 17629031.72 0.0141 0.0071

Uranus 43554-10-16 05:46 G 17629119.63 17629119.74 17629119.87 0.0142 0.0050

Uranus 43555-01-12 09:22 G 17629207.76 17629207.89 17629208.02 0.0142 0.0028

Uranus 43555-04-10 12:43 G 17629295.90 17629296.03 17629296.16 0.0142 0.0007

Uranus 43555-07-07 16:05 G 17629384.04 17629384.17 17629384.30 0.0142 0.0014

Pluto 43555-08-09 14:10 G 17629417.08 17629417.09 17629417.12 0.0075 0.0075

Uranus 43555-10-03 19:26 G 17629472.18 17629472.31 17629472.44 0.0142 0.0036

Pluto 43555-11-05 16:48 G 17629505.07 17629505.20 17629505.34 0.0075 0.0055

Uranus 43555-12-30 22:48 G 17629560.33 17629560.45 17629560.57 0.0142 0.0057

Pluto 43556-02-01 19:12 G 17629593.14 17629593.30 17629593.48 0.0075 0.0035

Uranus 43556-03-28 02:24 G 17629648.49 17629648.60 17629648.70 0.0142 0.0078

Pluto 43556-04-29 21:50 G 17629681.22 17629681.41 17629681.61 0.0075 0.0014

Uranus 43556-06-24 05:31 G 17629736.65 17629736.73 17629736.83 0.0142 0.0100

Pluto 43556-07-27 00:29 G 17629769.32 17629769.52 17629769.71 0.0075 0.0006

Uranus 43556-09-20 09:07 G 17629824.82 17629824.88 17629824.95 0.0142 0.0122

Pluto 43556-10-23 02:38 G 17629857.44 17629857.61 17629857.81 0.0075 0.0026

Jupiter 43556-12-14 10:19 G 17629909.82 17629909.93 17629910.04 0.0519 0.0242

Pluto 43557-01-19 04:48 G 17629945.57 17629945.70 17629945.88 0.0075 0.0046

Jupiter 43557-03-13 14:10 G 17629999.00 17629999.09 17629999.18 0.0517 0.0348

Pluto 43557-04-17 07:41 G 17630033.73 17630033.82 17630033.92 0.0074 0.0065

Mars 43558-01-15 13:26 G 17630306.90 17630307.06 17630307.21 0.1596 0.0617

Saturn 43559-01-03 16:19 G 17630660.05 17630660.18 17630660.32 0.0271 0.0189

Saturn 43559-04-02 15:22 G 17630748.95 17630749.14 17630749.34 0.0272 0.0007

Saturn 43559-06-30 14:24 G 17630837.98 17630838.10 17630838.23 0.0273 0.0202

Venus 43562-08-21 22:48 G 17631986.31 17631986.45 17631986.59 0.3681 0.1557

Jupiter 43563-02-05 06:29 G 17632153.63 17632153.77 17632153.92 0.0507 0.0329

Moon 43563-09-12 05:02 G 17632372.60 17632372.71 17632372.81 0.2655 0.0596

Earth 43563-09-12 05:31 G 17632372.63 17632372.73 17632372.83 0.2653 0.0734 *

Mars 43564-08-30 11:46 G 17632725.97 17632725.99 17632726.02 0.1939 0.1871

Jupiter 43568-10-02 14:53 G 17634220.04 17634220.12 17634220.21 0.0518 0.0389

Jupiter 43568-12-30 18:43 G 17634309.17 17634309.28 17634309.40 0.0517 0.0202

Saturn 43572-02-16 22:19 G 17635452.39 17635452.43 17635452.49 0.0293 0.0269

Saturn 43572-05-15 10:05 G 17635540.80 17635540.92 17635541.04 0.0292 0.0109

Saturn 43572-08-11 21:22 G 17635629.27 17635629.39 17635629.52 0.0291 0.0051

Saturn 43572-11-08 08:53 G 17635717.78 17635717.87 17635717.96 0.0290 0.0206

Mars 43574-01-20 20:24 G 17636156.24 17636156.35 17636156.46 0.1938 0.0435

Jupiter 43575-02-22 17:02 G 17636554.07 17636554.21 17636554.35 0.0509 0.0330

Moon 43576-09-13 22:19 G 17637123.36 17637123.43 17637123.50 0.2659 0.1993

Earth 43576-09-13 22:34 G 17637123.37 17637123.44 17637123.51 0.2652 0.1951 *

Moon 43580-03-10 22:05 G 17638397.34 17638397.42 17638397.50 0.2680 0.2346

Earth 43580-03-10 23:46 G 17638397.39 17638397.49 17638397.60 0.2677 0.2075 *

Jupiter 43580-10-18 23:46 G 17638619.36 17638619.49 17638619.61 0.0517 0.0058

Venus 43582-01-04 18:00 G 17639062.16 17639062.25 17639062.33 0.3690 0.2045

Mars 43583-06-13 04:34 G 17639586.59 17639586.69 17639586.78 0.1936 0.1044

Moon 43583-09-08 00:00 G 17639673.41 17639673.50 17639673.59 0.2649 0.1520

Earth 43583-09-08 00:14 G 17639673.43 17639673.51 17639673.60 0.2655 0.1480 *

Jupiter 43586-12-11 13:26 G 17640863.88 17640864.06 17640864.25 0.0509 0.0118

Venus 43587-07-21 09:07 G 17641085.78 17641085.88 17641085.99 0.3689 0.0135

Mars 43588-02-24 12:43 G 17641303.89 17641304.03 17641304.16 0.1595 0.0995

Saturn 43588-05-22 14:10 G 17641392.02 17641392.09 17641392.16 0.0270 0.0249

Saturn 43588-08-19 12:58 G 17641480.86 17641481.04 17641481.23 0.0271 0.0057

Saturn 43588-11-16 12:00 G 17641569.84 17641570.00 17641570.17 0.0272 0.0139

Jupiter 43592-08-07 04:19 G 17642929.55 17642929.68 17642929.80 0.0517 0.0093

Jupiter 43592-11-04 08:10 G 17643018.80 17643018.84 17643018.87 0.0516 0.0494

Venus 43593-02-03 00:43 G 17643109.44 17643109.53 17643109.61 0.3689 0.2159

Moon 43593-03-14 08:53 G 17643148.72 17643148.87 17643149.02 0.2684 0.1104

Earth 43593-03-14 10:19 G 17643148.78 17643148.93 17643149.07 0.2678 0.1143 *

Uranus 43594-05-31 21:07 G 17643592.34 17643592.38 17643592.46 0.0137 0.0130

Uranus 43594-08-28 05:17 G 17643680.59 17643680.72 17643680.86 0.0137 0.0101

Uranus 43594-11-24 13:12 G 17643768.88 17643769.05 17643769.22 0.0137 0.0072

Uranus 43595-02-20 20:53 G 17643857.19 17643857.37 17643857.56 0.0137 0.0044

Uranus 43595-05-20 04:34 G 17643945.50 17643945.69 17643945.89 0.0136 0.0016

Uranus 43595-08-16 12:29 G 17644033.82 17644034.02 17644034.21 0.0136 0.0013

Uranus 43595-11-12 19:55 G 17644122.15 17644122.33 17644122.52 0.0136 0.0042

Uranus 43596-02-09 03:36 G 17644210.49 17644210.65 17644210.82 0.0136 0.0070

Uranus 43596-05-07 11:17 G 17644298.84 17644298.97 17644299.11 0.0136 0.0097

Uranus 43596-08-03 18:43 G 17644387.22 17644387.28 17644387.36 0.0136 0.0125

Moon 43596-09-09 16:34 G 17644424.09 17644424.19 17644424.30 0.2653 0.0365

Earth 43596-09-09 17:17 G 17644424.11 17644424.22 17644424.33 0.2654 0.0250 *

Mars 43597-07-16 14:10 G 17644733.92 17644734.09 17644734.25 0.1596 0.0398

Jupiter 43598-09-29 09:36 G 17645173.72 17645173.90 17645174.09 0.0508 0.0097

Saturn 43601-10-02 11:31 G 17646272.88 17646272.98 17646273.09 0.0293 0.0165

Saturn 43601-12-29 23:02 G 17646361.33 17646361.46 17646361.59 0.0291 0.0009

Saturn 43602-03-28 10:34 G 17646449.83 17646449.94 17646450.05 0.0290 0.0152

Jupiter 43604-05-26 09:07 G 17647239.77 17647239.88 17647239.99 0.0518 0.0238

Jupiter 43604-08-23 12:58 G 17647328.95 17647329.04 17647329.13 0.0516 0.0351

Moon 43609-09-12 09:50 G 17649174.81 17649174.91 17649175.01 0.2656 0.0950

Earth 43609-09-12 10:19 G 17649174.83 17649174.93 17649175.03 0.2653 0.0973 *

Jupiter 43610-07-18 05:31 G 17649483.58 17649483.73 17649483.87 0.0507 0.0317

Mars 43613-07-21 20:10 G 17650583.23 17650583.34 17650583.44 0.1938 0.0575

Venus 43613-09-11 15:07 G 17650635.07 17650635.13 17650635.20 0.3681 0.3341

Neptune 43615-03-29 07:55 G 17651198.80 17651198.83 17651198.87 0.0089 0.0085

Neptune 43615-06-25 09:07 G 17651286.83 17651286.88 17651286.95 0.0089 0.0078

Neptune 43615-09-21 10:34 G 17651374.86 17651374.94 17651375.02 0.0089 0.0070

Neptune 43615-12-18 11:46 G 17651462.90 17651462.99 17651463.09 0.0089 0.0063

Jupiter 43616-03-14 13:55 G 17651550.00 17651550.08 17651550.16 0.0519 0.0382

Neptune 43616-03-15 12:58 G 17651550.95 17651551.04 17651551.15 0.0089 0.0055

Neptune 43616-06-11 14:10 G 17651638.99 17651639.09 17651639.21 0.0089 0.0048

Jupiter 43616-06-11 17:46 G 17651639.13 17651639.24 17651639.36 0.0517 0.0209 *

Moon 43616-09-05 12:14 G 17651724.97 17651725.01 17651725.04 0.2648 0.2503

Earth 43616-09-05 12:14 G 17651724.97 17651725.01 17651725.04 0.2655 0.2462 *

Neptune 43616-09-07 15:36 G 17651727.04 17651727.15 17651727.27 0.0089 0.0040

Neptune 43616-12-04 16:48 G 17651815.08 17651815.20 17651815.33 0.0089 0.0033

Neptune 43617-03-02 18:14 G 17651903.13 17651903.26 17651903.38 0.0089 0.0025

Neptune 43617-05-29 19:26 G 17651991.18 17651991.31 17651991.44 0.0089 0.0017

Neptune 43617-08-25 20:38 G 17652079.23 17652079.36 17652079.49 0.0089 0.0010

Neptune 43617-11-21 21:50 G 17652167.28 17652167.41 17652167.55 0.0089 0.0004

Saturn 43618-01-06 10:19 G 17652212.76 17652212.93 17652213.10 0.0271 0.0122

Neptune 43618-02-17 23:17 G 17652255.34 17652255.47 17652255.60 0.0089 0.0006

Saturn 43618-04-05 09:22 G 17652301.71 17652301.89 17652302.08 0.0272 0.0072

Neptune 43618-05-17 00:29 G 17652343.39 17652343.52 17652343.65 0.0089 0.0013

Saturn 43618-07-03 08:10 G 17652390.82 17652390.84 17652390.88 0.0273 0.0269

Neptune 43618-08-13 01:41 G 17652431.44 17652431.57 17652431.70 0.0089 0.0020

Neptune 43618-11-09 02:53 G 17652519.50 17652519.62 17652519.75 0.0089 0.0028

Neptune 43619-02-05 04:05 G 17652607.56 17652607.67 17652607.80 0.0089 0.0036

Neptune 43619-05-04 05:31 G 17652695.62 17652695.73 17652695.85 0.0089 0.0043

Neptune 43619-07-31 06:43 G 17652783.68 17652783.78 17652783.89 0.0089 0.0051

Neptune 43619-10-27 08:10 G 17652871.74 17652871.84 17652871.93 0.0089 0.0058

Neptune 43620-01-23 09:07 G 17652959.80 17652959.88 17652959.98 0.0089 0.0066

Neptune 43620-04-20 10:19 G 17653047.87 17653047.93 17653048.01 0.0089 0.0074

Neptune 43620-07-17 11:46 G 17653135.94 17653135.99 17653136.05 0.0089 0.0081

Neptune 43620-10-13 12:58 G 17653224.04 17653224.04 17653224.06 0.0089 0.0088

Jupiter 43622-08-04 16:05 G 17653884.04 17653884.17 17653884.31 0.0509 0.0348

Moon 43622-09-15 03:07 G 17653925.57 17653925.63 17653925.69 0.2659 0.2128

Earth 43622-09-15 03:07 G 17653925.58 17653925.63 17653925.69 0.2652 0.2196 *

Mars 43622-12-12 04:34 G 17654013.59 17654013.69 17654013.79 0.1937 0.0882

Moon 43626-03-12 05:17 G 17655199.60 17655199.72 17655199.85 0.2681 0.1673

Earth 43626-03-12 06:58 G 17655199.66 17655199.79 17655199.93 0.2678 0.1479 *

Mars 43627-08-25 13:12 G 17655730.95 17655731.05 17655731.16 0.1595 0.1214

Jupiter 43628-03-30 22:34 G 17655949.32 17655949.44 17655949.57 0.0517 0.0066

Moon 43629-09-08 04:34 G 17656475.60 17656475.69 17656475.79 0.2650 0.1264

Earth 43629-09-08 05:02 G 17656475.62 17656475.71 17656475.81 0.2654 0.1234 *

Saturn 43631-02-19 13:26 G 17657004.98 17657005.06 17657005.15 0.0293 0.0216

Saturn 43631-05-19 00:58 G 17657093.42 17657093.54 17657093.67 0.0292 0.0056

Saturn 43631-08-15 12:29 G 17657181.90 17657182.02 17657182.14 0.0291 0.0102

Saturn 43631-11-11 23:46 G 17657270.44 17657270.49 17657270.55 0.0290 0.0259

Venus 43633-01-26 00:00 G 17657711.46 17657711.50 17657711.53 0.3690 0.3368

Jupiter 43634-05-23 11:46 G 17658193.81 17658193.99 17658194.18 0.0509 0.0124

Mars 43637-01-14 14:53 G 17659160.95 17659161.12 17659161.29 0.1596 0.0168

Uranus 43637-11-17 23:46 G 17659468.44 17659468.49 17659468.54 0.0141 0.0128

Uranus 43638-02-14 02:53 G 17659556.55 17659556.62 17659556.71 0.0141 0.0107

Uranus 43638-05-13 06:14 G 17659644.67 17659644.76 17659644.87 0.0141 0.0087

Uranus 43638-08-09 09:36 G 17659732.79 17659732.90 17659733.02 0.0141 0.0066

Venus 43638-08-11 15:07 G 17659735.04 17659735.13 17659735.23 0.3690 0.1303

Uranus 43638-11-05 13:12 G 17659820.92 17659821.05 17659821.17 0.0142 0.0044

Uranus 43639-02-01 16:34 G 17659909.06 17659909.19 17659909.32 0.0142 0.0023

Moon 43639-03-15 16:19 G 17659951.05 17659951.18 17659951.32 0.2684 0.1527

Earth 43639-03-15 17:17 G 17659951.10 17659951.22 17659951.35 0.2678 0.1737 *

Uranus 43639-04-30 19:55 G 17659997.20 17659997.33 17659997.46 0.0142 0.0002

Uranus 43639-07-27 23:17 G 17660085.34 17660085.47 17660085.60 0.0142 0.0019

Uranus 43639-10-24 02:38 G 17660173.49 17660173.61 17660173.74 0.0142 0.0041

Jupiter 43640-01-18 03:36 G 17660259.53 17660259.65 17660259.77 0.0517 0.0077

Uranus 43640-01-20 06:00 G 17660261.64 17660261.75 17660261.87 0.0142 0.0062

Jupiter 43640-04-16 07:26 G 17660348.79 17660348.81 17660348.82 0.0515 0.0508

Uranus 43640-04-17 09:36 G 17660349.79 17660349.90 17660350.00 0.0142 0.0083

Uranus 43640-07-14 12:43 G 17660437.95 17660438.03 17660438.13 0.0142 0.0106

Uranus 43640-10-10 16:19 G 17660526.13 17660526.18 17660526.24 0.0142 0.0127

Moon 43642-09-10 21:22 G 17661226.28 17661226.39 17661226.50 0.2653 0.0099

Earth 43642-09-10 22:05 G 17661226.31 17661226.42 17661226.53 0.2654 0.0036 *

Venus 43644-02-25 06:29 G 17661758.67 17661758.77 17661758.87 0.3689 0.0815

Jupiter 43646-03-11 08:24 G 17662503.66 17662503.85 17662504.04 0.0508 0.0086

Mars 43646-06-06 16:19 G 17662591.15 17662591.18 17662591.21 0.1597 0.1569

Saturn 43647-05-26 07:26 G 17662944.68 17662944.81 17662944.96 0.0270 0.0187

Saturn 43647-08-23 06:29 G 17663033.58 17663033.77 17663033.97 0.0271 0.0007

Saturn 43647-11-20 05:31 G 17663122.60 17663122.73 17663122.86 0.0272 0.0201

Venus 43649-09-09 22:05 G 17663782.36 17663782.42 17663782.48 0.3689 0.2929

Jupiter 43651-11-06 08:10 G 17664569.73 17664569.84 17664569.95 0.0518 0.0227

Jupiter 43652-02-03 12:00 G 17664658.91 17664659.00 17664659.09 0.0516 0.0361

Mars 43653-01-19 20:10 G 17665010.23 17665010.34 17665010.44 0.1938 0.0743

Moon 43655-09-13 14:38 G 17665977.01 17665977.11 17665977.20 0.2658 0.1139

Earth 43655-09-13 14:53 G 17665977.03 17665977.12 17665977.22 0.2653 0.1222 *

Jupiter 43657-12-28 04:48 G 17666813.55 17666813.70 17666813.85 0.0508 0.0298

Saturn 43660-07-08 14:38 G 17667737.08 17667737.11 17667737.16 0.0294 0.0277

Saturn 43660-10-05 02:24 G 17667825.48 17667825.60 17667825.72 0.0293 0.0115

Saturn 43661-01-01 13:55 G 17667913.95 17667914.08 17667914.20 0.0291 0.0045

Saturn 43661-03-31 01:12 G 17668002.46 17668002.55 17668002.64 0.0290 0.0201

Mars 43662-06-12 04:19 G 17668440.58 17668440.68 17668440.79 0.1936 0.0719

Moon 43662-09-06 16:48 G 17668527.14 17668527.20 17668527.26 0.2648 0.2158

Earth 43662-09-06 16:48 G 17668527.14 17668527.20 17668527.26 0.2655 0.2217 *

Jupiter 43663-08-25 12:58 G 17668879.95 17668880.04 17668880.12 0.0518 0.0372

Jupiter 43663-11-22 16:48 G 17668969.09 17668969.20 17668969.31 0.0517 0.0217

Mars 43667-02-23 13:55 G 17670158.01 17670158.08 17670158.16 0.1595 0.1429

Moon 43668-09-15 07:55 G 17670727.79 17670727.83 17670727.86 0.2659 0.2486

Earth 43668-09-15 07:55 G 17670727.79 17670727.83 17670727.87 0.2652 0.2435 *

Jupiter 43670-01-14 15:22 G 17671214.01 17671214.14 17671214.27 0.0509 0.0364

Venus 43670-04-18 17:31 G 17671308.08 17671308.23 17671308.39 0.3681 0.0917

Moon 43672-03-12 12:29 G 17672001.87 17672002.02 17672002.16 0.2682 0.1098

Earth 43672-03-12 14:10 G 17672001.93 17672002.09 17672002.24 0.2678 0.0901 *

Jupiter 43675-06-13 17:46 G 17673190.23 17673190.24 17673190.25 0.0519 0.0517

Moon 43675-09-09 09:22 G 17673277.79 17673277.89 17673277.98 0.2651 0.1115

Earth 43675-09-09 09:50 G 17673277.81 17673277.91 17673278.01 0.2654 0.0989 *

Jupiter 43675-09-10 21:36 G 17673279.28 17673279.40 17673279.53 0.0517 0.0077

Mars 43676-07-15 15:36 G 17673587.98 17673588.15 17673588.32 0.1596 0.0053

Saturn 43676-10-12 04:34 G 17673676.63 17673676.69 17673676.75 0.0270 0.0255

Saturn 43677-01-09 03:36 G 17673765.46 17673765.65 17673765.84 0.0271 0.0063

Saturn 43677-04-08 02:24 G 17673854.44 17673854.60 17673854.77 0.0272 0.0132

Uranus 43678-06-21 03:22 G 17674293.58 17674293.64 17674293.73 0.0137 0.0126

Uranus 43678-09-17 11:31 G 17674381.85 17674381.98 17674382.12 0.0137 0.0097

Uranus 43678-12-14 19:12 G 17674470.14 17674470.30 17674470.48 0.0137 0.0068

Uranus 43679-03-13 03:07 G 17674558.44 17674558.63 17674558.82 0.0136 0.0040

Uranus 43679-06-09 10:48 G 17674646.76 17674646.95 17674647.15 0.0136 0.0011

Uranus 43679-09-05 18:29 G 17674735.08 17674735.27 17674735.47 0.0136 0.0017

Uranus 43679-12-03 02:10 G 17674823.41 17674823.59 17674823.78 0.0136 0.0045

Uranus 43680-02-29 09:50 G 17674911.75 17674911.91 17674912.08 0.0136 0.0073

Uranus 43680-05-27 17:17 G 17675000.10 17675000.22 17675000.36 0.0136 0.0102

Uranus 43680-08-24 00:58 G 17675088.49 17675088.54 17675088.61 0.0136 0.0129

Jupiter 43681-11-02 11:31 G 17675523.80 17675523.98 17675524.16 0.0508 0.0150

Moon 43685-03-16 00:00 G 17676753.42 17676753.50 17676753.58 0.2685 0.2323

Earth 43685-03-16 00:29 G 17676753.44 17676753.52 17676753.60 0.2679 0.2325 *

Mars 43685-12-05 17:02 G 17677018.12 17677018.21 17677018.30 0.1597 0.1346

Jupiter 43687-06-30 02:38 G 17677589.49 17677589.61 17677589.74 0.0517 0.0067

Moon 43688-09-11 02:10 G 17678028.48 17678028.59 17678028.69 0.2654 0.0164

Earth 43688-09-11 02:53 G 17678028.51 17678028.62 17678028.72 0.2653 0.0262 *

Venus 43689-09-01 21:22 G 17678384.32 17678384.39 17678384.46 0.3690 0.2622

Saturn 43690-02-22 03:50 G 17678557.56 17678557.66 17678557.76 0.0293 0.0172

Saturn 43690-05-21 15:22 G 17678646.01 17678646.14 17678646.27 0.0292 0.0012

Saturn 43690-08-18 02:38 G 17678734.51 17678734.61 17678734.73 0.0291 0.0147

Mars 43692-07-20 20:10 G 17679437.24 17679437.34 17679437.44 0.1938 0.0916

Jupiter 43693-08-21 06:58 G 17679833.61 17679833.79 17679833.98 0.0509 0.0078

Venus 43695-03-18 12:29 G 17680407.92 17680408.02 17680408.12 0.3689 0.0557

Jupiter 43699-04-18 07:41 G 17681899.71 17681899.82 17681899.94 0.0518 0.0207

Jupiter 43699-07-16 11:31 G 17681988.90 17681988.98 17681989.06 0.0516 0.0379

Neptune 43699-08-30 05:31 G 17682033.66 17682033.73 17682033.83 0.0089 0.0080

Neptune 43699-11-26 09:07 G 17682121.78 17682121.88 17682122.03 0.0089 0.0069

Neptune 43700-02-22 13:12 G 17682209.91 17682210.05 17682210.21 0.0089 0.0057

Neptune 43700-05-21 17:02 G 17682298.05 17682298.21 17682298.39 0.0089 0.0046

Neptune 43700-08-17 20:38 G 17682386.19 17682386.36 17682386.56 0.0089 0.0035

Venus 43700-10-02 04:05 G 17682431.57 17682431.67 17682431.76 0.3689 0.1583

Neptune 43700-11-14 00:43 G 17682474.34 17682474.53 17682474.72 0.0089 0.0023

Neptune 43701-02-10 04:19 G 17682562.49 17682562.68 17682562.88 0.0089 0.0012

Neptune 43701-05-09 08:10 G 17682650.64 17682650.84 17682651.04 0.0089 0.0001

Neptune 43701-08-05 11:46 G 17682738.80 17682738.99 17682739.19 0.0089 0.0012

Moon 43701-09-14 19:26 G 17682779.22 17682779.31 17682779.40 0.2659 0.1421

Earth 43701-09-14 19:41 G 17682779.23 17682779.32 17682779.41 0.2653 0.1456 *

Neptune 43701-11-01 15:36 G 17682826.96 17682827.15 17682827.35 0.0089 0.0023

Mars 43701-12-12 04:19 G 17682867.58 17682867.68 17682867.79 0.1936 0.0553

Neptune 43702-01-28 19:26 G 17682915.13 17682915.31 17682915.49 0.0089 0.0034

Neptune 43702-04-26 22:48 G 17683003.30 17683003.45 17683003.63 0.0089 0.0046

Neptune 43702-07-24 02:38 G 17683091.47 17683091.61 17683091.77 0.0089 0.0057

Neptune 43702-10-20 06:29 G 17683179.65 17683179.77 17683179.90 0.0089 0.0068

Neptune 43703-01-16 10:19 G 17683267.85 17683267.93 17683268.02 0.0089 0.0079

Jupiter 43705-06-10 03:36 G 17684143.50 17684143.65 17684143.81 0.0508 0.0286

Saturn 43706-05-30 00:29 G 17684497.35 17684497.52 17684497.69 0.0270 0.0129

Saturn 43706-08-26 23:31 G 17684586.29 17684586.48 17684586.66 0.0271 0.0064

Saturn 43706-11-23 22:05 G 17684675.38 17684675.42 17684675.49 0.0272 0.0259

Moon 43708-09-07 21:22 G 17685329.32 17685329.39 17685329.46 0.2648 0.2039

Earth 43708-09-07 21:36 G 17685329.33 17685329.40 17685329.47 0.2655 0.1974 *

Jupiter 43711-02-05 12:14 G 17686209.92 17686210.01 17686210.10 0.0518 0.0357

Jupiter 43711-05-05 16:05 G 17686299.06 17686299.17 17686299.28 0.0516 0.0231

Mars 43716-01-15 16:19 G 17688015.01 17688015.18 17688015.34 0.1596 0.0268

Jupiter 43717-03-29 00:14 G 17688453.47 17688453.51 17688453.55 0.0508 0.0495

Jupiter 43717-06-27 14:53 G 17688544.01 17688544.12 17688544.25 0.0509 0.0388

Pluto 43717-08-03 13:26 G 17688581.02 17688581.06 17688581.12 0.0068 0.0063

Pluto 43717-10-30 13:55 G 17688669.01 17688669.08 17688669.17 0.0068 0.0053

Pluto 43718-01-26 14:24 G 17688757.01 17688757.10 17688757.22 0.0068 0.0042

Moon 43718-03-14 19:41 G 17688804.16 17688804.32 17688804.48 0.2682 0.0545

Earth 43718-03-14 21:07 G 17688804.22 17688804.38 17688804.55 0.2678 0.0316 *

Pluto 43718-04-24 15:07 G 17688845.02 17688845.13 17688845.25 0.0068 0.0032

Pluto 43718-07-21 15:36 G 17688933.03 17688933.15 17688933.28 0.0069 0.0022

Pluto 43718-10-17 16:19 G 17689021.05 17689021.18 17689021.31 0.0069 0.0011

Pluto 43719-01-13 16:48 G 17689109.07 17689109.20 17689109.33 0.0069 0.0001

Pluto 43719-04-11 17:17 G 17689197.09 17689197.22 17689197.35 0.0069 0.0010

Pluto 43719-07-08 17:46 G 17689285.12 17689285.24 17689285.37 0.0069 0.0021

Saturn 43719-07-13 04:48 G 17689289.63 17689289.70 17689289.77 0.0294 0.0236

Pluto 43719-10-04 18:29 G 17689373.15 17689373.27 17689373.39 0.0069 0.0031

Saturn 43719-10-09 16:19 G 17689378.06 17689378.18 17689378.31 0.0293 0.0075

Pluto 43719-12-31 18:43 G 17689461.19 17689461.28 17689461.40 0.0069 0.0042

Saturn 43720-01-06 03:50 G 17689466.54 17689466.66 17689466.78 0.0291 0.0084

Pluto 43720-03-28 19:12 G 17689549.23 17689549.30 17689549.40 0.0069 0.0053

Saturn 43720-04-03 15:22 G 17689555.07 17689555.14 17689555.21 0.0290 0.0242

Pluto 43720-06-24 19:55 G 17689637.29 17689637.33 17689637.39 0.0069 0.0064

Moon 43721-09-10 13:55 G 17690079.98 17690080.08 17690080.18 0.2651 0.0775

Earth 43721-09-10 14:24 G 17690080.00 17690080.10 17690080.21 0.2654 0.0754 *

Uranus 43721-12-09 06:58 G 17690169.73 17690169.79 17690169.86 0.0141 0.0122

Uranus 43722-03-07 10:19 G 17690257.85 17690257.93 17690258.03 0.0141 0.0102

Uranus 43722-06-03 13:41 G 17690345.97 17690346.07 17690346.18 0.0141 0.0081

Uranus 43722-08-30 17:02 G 17690434.10 17690434.21 17690434.33 0.0142 0.0060

Jupiter 43722-11-24 17:02 G 17690520.18 17690520.21 17690520.24 0.0519 0.0503

Uranus 43722-11-26 20:38 G 17690522.23 17690522.36 17690522.48 0.0142 0.0039

Jupiter 43723-02-21 20:53 G 17690609.25 17690609.37 17690609.50 0.0517 0.0088

Uranus 43723-02-23 00:00 G 17690610.37 17690610.50 17690610.63 0.0142 0.0018

Uranus 43723-05-22 03:22 G 17690698.51 17690698.64 17690698.77 0.0142 0.0005

Uranus 43723-08-18 06:43 G 17690786.65 17690786.78 17690786.91 0.0142 0.0025

Uranus 43723-11-14 10:05 G 17690874.80 17690874.92 17690875.04 0.0142 0.0046

Uranus 43724-02-10 13:26 G 17690962.95 17690963.06 17690963.18 0.0142 0.0068

Uranus 43724-05-08 16:48 G 17691051.11 17691051.20 17691051.31 0.0142 0.0090

Uranus 43724-08-04 20:10 G 17691139.27 17691139.34 17691139.43 0.0142 0.0111

Uranus 43724-10-31 23:46 G 17691227.45 17691227.49 17691227.54 0.0142 0.0133

Mars 43725-06-06 17:31 G 17691445.12 17691445.23 17691445.35 0.1597 0.1133

Venus 43726-11-24 19:55 G 17691981.19 17691981.33 17691981.48 0.3681 0.1486

Jupiter 43729-04-15 11:02 G 17692853.78 17692853.96 17692854.14 0.0509 0.0169

Mars 43732-01-20 19:55 G 17693864.24 17693864.33 17693864.43 0.1938 0.1069

Moon 43734-09-13 06:58 G 17694830.68 17694830.79 17694830.89 0.2655 0.0371

Earth 43734-09-13 07:26 G 17694830.71 17694830.81 17694830.92 0.2653 0.0481 *

Jupiter 43734-12-11 01:55 G 17694919.45 17694919.58 17694919.70 0.0518 0.0057

Saturn 43735-10-16 21:07 G 17695229.26 17695229.38 17695229.52 0.0270 0.0200

Saturn 43736-01-13 20:10 G 17695318.15 17695318.34 17695318.53 0.0271 0.0008

Saturn 43736-04-11 18:58 G 17695407.16 17695407.29 17695407.43 0.0272 0.0187

Jupiter 43741-02-01 07:12 G 17697163.61 17697163.80 17697163.99 0.0508 0.0046

Mars 43741-06-12 04:19 G 17697294.57 17697294.68 17697294.79 0.1937 0.0393

Venus 43746-04-09 18:43 G 17699057.19 17699057.28 17699057.36 0.3690 0.1870

Jupiter 43746-09-29 06:58 G 17699229.67 17699229.79 17699229.90 0.0518 0.0197

Jupiter 43746-12-27 10:34 G 17699318.86 17699318.94 17699319.03 0.0516 0.0391

Moon 43747-09-16 00:00 G 17699581.42 17699581.50 17699581.58 0.2659 0.1664

Earth 43747-09-16 00:29 G 17699581.44 17699581.52 17699581.60 0.2653 0.1701 *

Saturn 43749-02-25 17:46 G 17700110.12 17700110.24 17700110.35 0.0293 0.0133

Saturn 43749-05-25 05:17 G 17700198.59 17700198.72 17700198.85 0.0292 0.0028

Saturn 43749-08-21 16:34 G 17700287.10 17700287.19 17700287.29 0.0291 0.0186

Mars 43750-11-02 12:43 G 17700725.00 17700725.03 17700725.07 0.1934 0.1828

Venus 43751-10-24 09:50 G 17701080.81 17701080.91 17701081.02 0.3689 0.0288

Jupiter 43752-11-20 02:24 G 17701473.44 17701473.60 17701473.76 0.0508 0.0276

Moon 43754-09-09 01:55 G 17702131.50 17702131.58 17702131.66 0.2649 0.1720

Earth 43754-09-09 02:10 G 17702131.51 17702131.59 17702131.67 0.2655 0.1733 *

Mars 43755-07-16 17:02 G 17702442.05 17702442.21 17702442.37 0.1596 0.0493

Venus 43757-05-09 01:26 G 17703104.48 17703104.56 17703104.63 0.3689 0.2355

Jupiter 43758-07-18 12:00 G 17703539.90 17703540.00 17703540.09 0.0518 0.0335

Jupiter 43758-10-15 15:36 G 17703629.05 17703629.15 17703629.26 0.0516 0.0253

Uranus 43762-07-12 10:19 G 17704994.85 17704994.93 17704995.04 0.0137 0.0120

Uranus 43762-10-08 18:14 G 17705083.12 17705083.26 17705083.42 0.0137 0.0091

Uranus 43763-01-05 02:10 G 17705171.42 17705171.59 17705171.77 0.0136 0.0062

Uranus 43763-04-03 09:50 G 17705259.73 17705259.91 17705260.11 0.0136 0.0034

Uranus 43763-06-30 17:46 G 17705348.04 17705348.24 17705348.44 0.0136 0.0005

Uranus 43763-09-27 01:26 G 17705436.37 17705436.56 17705436.75 0.0136 0.0024

Uranus 43763-12-24 08:53 G 17705524.70 17705524.87 17705525.06 0.0136 0.0052

Moon 43764-03-15 02:53 G 17705606.46 17705606.62 17705606.78 0.2683 0.0169

Earth 43764-03-15 04:05 G 17705606.51 17705606.67 17705606.84 0.2678 0.0273 *

Uranus 43764-03-21 16:34 G 17705613.04 17705613.19 17705613.36 0.0136 0.0080

Uranus 43764-06-18 00:00 G 17705701.40 17705701.50 17705701.64 0.0136 0.0108

Jupiter 43764-09-07 22:48 G 17705783.41 17705783.45 17705783.51 0.0508 0.0484

Uranus 43764-09-14 07:55 G 17705789.82 17705789.83 17705789.85 0.0136 0.0135

Mars 43764-12-05 18:29 G 17705872.13 17705872.27 17705872.41 0.1597 0.0905

Jupiter 43764-12-07 13:55 G 17705873.97 17705874.08 17705874.20 0.0510 0.0400

Saturn 43765-03-04 18:14 G 17705961.24 17705961.26 17705961.30 0.0269 0.0264

Saturn 43765-06-01 17:17 G 17706050.03 17706050.22 17706050.40 0.0270 0.0074

Saturn 43765-08-29 15:50 G 17706139.00 17706139.16 17706139.34 0.0271 0.0120

Moon 43767-09-11 18:43 G 17706882.17 17706882.28 17706882.38 0.2651 0.0657

Earth 43767-09-11 19:12 G 17706882.20 17706882.30 17706882.41 0.2654 0.0503 *

Jupiter 43770-05-06 16:34 G 17707850.15 17707850.19 17707850.23 0.0518 0.0485

Jupiter 43770-08-03 20:24 G 17707939.22 17707939.35 17707939.47 0.0517 0.0105

Mars 43771-07-21 19:55 G 17708291.24 17708291.33 17708291.42 0.1938 0.1230

Jupiter 43776-09-25 10:34 G 17710183.76 17710183.94 17710184.11 0.0509 0.0191

Venus 43777-12-15 12:14 G 17710629.96 17710630.01 17710630.06 0.3681 0.3464

Saturn 43778-07-15 18:29 G 17710842.18 17710842.27 17710842.37 0.0294 0.0200

Saturn 43778-10-12 06:00 G 17710930.63 17710930.75 17710930.88 0.0293 0.0040

Saturn 43779-01-08 17:31 G 17711019.12 17711019.23 17711019.35 0.0292 0.0122

Saturn 43779-04-07 05:02 G 17711107.68 17711107.71 17711107.74 0.0290 0.0279

Neptune 43779-12-25 07:41 G 17711369.79 17711369.82 17711369.88 0.0089 0.0082

Neptune 43780-03-22 09:07 G 17711457.82 17711457.88 17711457.96 0.0089 0.0074

Neptune 43780-06-18 10:19 G 17711545.86 17711545.93 17711546.03 0.0089 0.0067

Moon 43780-09-13 11:31 G 17711632.88 17711632.98 17711633.09 0.2657 0.0701

Earth 43780-09-13 12:14 G 17711632.90 17711633.01 17711633.11 0.2653 0.0721 *

Neptune 43780-09-14 11:46 G 17711633.90 17711633.99 17711634.09 0.0089 0.0059

Mars 43780-12-11 04:19 G 17711721.57 17711721.68 17711721.79 0.1936 0.0218

Neptune 43780-12-11 12:58 G 17711721.94 17711722.04 17711722.15 0.0089 0.0051

Neptune 43781-03-09 14:10 G 17711809.98 17711810.09 17711810.21 0.0089 0.0044

Neptune 43781-06-05 15:36 G 17711898.03 17711898.15 17711898.27 0.0089 0.0036

Neptune 43781-09-01 16:48 G 17711986.08 17711986.20 17711986.33 0.0089 0.0029

Neptune 43781-11-28 18:00 G 17712074.13 17712074.25 17712074.38 0.0089 0.0021

Neptune 43782-02-24 19:26 G 17712162.18 17712162.31 17712162.44 0.0089 0.0014

Jupiter 43782-05-23 01:12 G 17712249.42 17712249.55 17712249.67 0.0517 0.0044

Neptune 43782-05-23 20:38 G 17712250.23 17712250.36 17712250.49 0.0089 0.0006

Neptune 43782-08-19 21:50 G 17712338.28 17712338.41 17712338.54 0.0089 0.0003

Neptune 43782-11-15 23:02 G 17712426.34 17712426.46 17712426.60 0.0089 0.0010

Neptune 43783-02-12 00:29 G 17712514.39 17712514.52 17712514.65 0.0089 0.0017

Neptune 43783-05-11 01:41 G 17712602.45 17712602.57 17712602.70 0.0089 0.0024

Neptune 43783-08-07 02:53 G 17712690.50 17712690.62 17712690.75 0.0089 0.0032

Neptune 43783-11-03 04:05 G 17712778.56 17712778.67 17712778.80 0.0089 0.0040

Neptune 43784-01-30 05:31 G 17712866.62 17712866.73 17712866.84 0.0089 0.0047

Neptune 43784-04-27 06:43 G 17712954.68 17712954.78 17712954.89 0.0089 0.0055

Neptune 43784-07-24 08:10 G 17713042.74 17713042.84 17713042.93 0.0089 0.0062

Neptune 43784-10-20 09:07 G 17713130.81 17713130.88 17713130.97 0.0089 0.0070

Neptune 43785-01-16 10:19 G 17713218.88 17713218.93 17713219.01 0.0089 0.0078

Neptune 43785-04-14 11:46 G 17713306.96 17713306.99 17713307.03 0.0089 0.0085

Jupiter 43788-07-14 06:43 G 17714493.59 17714493.78 17714493.96 0.0508 0.0029

Mars 43790-05-03 12:29 G 17715151.97 17715152.02 17715152.08 0.1934 0.1692

Moon 43793-09-16 04:48 G 17716383.63 17716383.70 17716383.78 0.2659 0.1892

Earth 43793-09-16 05:02 G 17716383.64 17716383.71 17716383.78 0.2653 0.1941 *

Jupiter 43794-03-11 06:00 G 17716559.63 17716559.75 17716559.87 0.0518 0.0185

Jupiter 43794-06-08 09:50 G 17716648.83 17716648.91 17716648.98 0.0516 0.0403

Saturn 43794-10-19 13:55 G 17716781.92 17716782.08 17716782.25 0.0270 0.0144

Mars 43795-01-14 17:46 G 17716869.08 17716869.24 17716869.39 0.1596 0.0708

Saturn 43795-01-16 12:43 G 17716870.85 17716871.03 17716871.23 0.0271 0.0049

Saturn 43795-04-15 11:46 G 17716959.91 17716959.99 17716960.07 0.0272 0.0243

Moon 43797-03-12 23:02 G 17717657.40 17717657.46 17717657.52 0.2679 0.2473

Earth 43797-03-13 00:58 G 17717657.46 17717657.54 17717657.62 0.2677 0.2359 *

Venus 43797-05-01 00:43 G 17717706.48 17717706.53 17717706.58 0.3690 0.3182

Jupiter 43800-05-03 02:38 G 17718803.45 17718803.61 17718803.78 0.0508 0.0242

Moon 43800-09-10 06:29 G 17718933.69 17718933.77 17718933.86 0.2650 0.1579

Earth 43800-09-10 06:58 G 17718933.70 17718933.79 17718933.88 0.2655 0.1486 *

Venus 43802-11-15 16:05 G 17719730.07 17719730.17 17719730.26 0.3690 0.1118

Pluto 43804-02-29 20:38 G 17720201.27 17720201.36 17720201.49 0.0075 0.0063

Pluto 43804-05-27 23:46 G 17720289.33 17720289.49 17720289.65 0.0075 0.0042

Mars 43804-06-06 19:12 G 17720299.14 17720299.30 17720299.45 0.1597 0.0683

Pluto 43804-08-24 02:10 G 17720377.41 17720377.59 17720377.78 0.0075 0.0022

Pluto 43804-11-20 04:48 G 17720465.50 17720465.70 17720465.89 0.0075 0.0002

Pluto 43805-02-16 07:12 G 17720553.61 17720553.80 17720553.99 0.0075 0.0018

Pluto 43805-05-15 09:36 G 17720641.73 17720641.90 17720642.07 0.0075 0.0038

Pluto 43805-08-11 11:46 G 17720729.88 17720729.99 17720730.13 0.0075 0.0058

Uranus 43805-10-03 11:02 G 17720782.94 17720782.96 17720782.99 0.0141 0.0138

Jupiter 43805-12-29 11:02 G 17720869.87 17720869.96 17720870.06 0.0518 0.0324

Uranus 43805-12-30 14:10 G 17720871.03 17720871.09 17720871.17 0.0141 0.0118

Jupiter 43806-03-28 14:53 G 17720959.01 17720959.12 17720959.23 0.0516 0.0264

Uranus 43806-03-28 17:31 G 17720959.15 17720959.23 17720959.34 0.0141 0.0097 *

Uranus 43806-06-24 20:53 G 17721047.27 17721047.37 17721047.49 0.0142 0.0076

Uranus 43806-09-21 00:29 G 17721135.40 17721135.52 17721135.64 0.0142 0.0054

Uranus 43806-12-18 03:50 G 17721223.53 17721223.66 17721223.79 0.0142 0.0033

Uranus 43807-03-16 07:12 G 17721311.67 17721311.80 17721311.93 0.0142 0.0012

Uranus 43807-06-12 10:34 G 17721399.81 17721399.94 17721400.07 0.0142 0.0010

Uranus 43807-09-08 13:55 G 17721487.96 17721488.08 17721488.21 0.0142 0.0031

Saturn 43807-12-03 19:41 G 17721574.27 17721574.32 17721574.38 0.0294 0.0260

Uranus 43807-12-05 17:31 G 17721576.11 17721576.23 17721576.35 0.0142 0.0052

Saturn 43808-03-01 07:26 G 17721662.69 17721662.81 17721662.93 0.0293 0.0098

Uranus 43808-03-02 20:53 G 17721664.26 17721664.37 17721664.48 0.0142 0.0074

Saturn 43808-05-28 18:58 G 17721751.16 17721751.29 17721751.41 0.0292 0.0063

Uranus 43808-05-30 00:14 G 17721752.42 17721752.51 17721752.61 0.0142 0.0095

Venus 43808-05-31 07:26 G 17721753.71 17721753.81 17721753.90 0.3689 0.1008

Saturn 43808-08-25 06:14 G 17721839.69 17721839.76 17721839.85 0.0291 0.0222

Uranus 43808-08-26 03:36 G 17721840.58 17721840.65 17721840.73 0.0142 0.0117

Uranus 43808-11-22 07:12 G 17721928.77 17721928.80 17721928.83 0.0142 0.0138

Moon 43810-03-17 10:19 G 17722408.78 17722408.93 17722409.09 0.2684 0.0655

Earth 43810-03-17 11:17 G 17722408.81 17722408.97 17722409.13 0.2678 0.0852 *

Mars 43811-01-20 19:55 G 17722718.26 17722718.33 17722718.41 0.1938 0.1417

Jupiter 43812-02-19 21:36 G 17723113.34 17723113.40 17723113.47 0.0508 0.0474

Jupiter 43812-05-20 12:29 G 17723203.92 17723204.02 17723204.14 0.0510 0.0411

Moon 43813-09-12 23:17 G 17723684.37 17723684.47 17723684.58 0.2652 0.0295

Earth 43813-09-13 00:00 G 17723684.39 17723684.50 17723684.60 0.2654 0.0268 *

Venus 43813-12-14 22:48 G 17723777.40 17723777.45 17723777.50 0.3689 0.3129

Jupiter 43817-10-17 16:05 G 17725180.12 17725180.17 17725180.23 0.0518 0.0463

Jupiter 43818-01-14 19:55 G 17725269.21 17725269.33 17725269.45 0.0516 0.0127

Mars 43820-06-12 04:19 G 17726148.56 17726148.68 17726148.79 0.1936 0.0080

Jupiter 43824-03-08 09:07 G 17727513.71 17727513.88 17727514.06 0.0509 0.0201

Saturn 43824-03-08 11:17 G 17727513.85 17727513.97 17727514.09 0.0269 0.0208 *

Saturn 43824-06-05 10:05 G 17727602.73 17727602.92 17727603.11 0.0270 0.0017

Saturn 43824-09-02 08:53 G 17727691.73 17727691.87 17727692.02 0.0271 0.0176

Moon 43826-09-15 16:19 G 17728435.08 17728435.18 17728435.28 0.2658 0.0831

Earth 43826-09-15 16:48 G 17728435.10 17728435.20 17728435.30 0.2653 0.0965 *

Mars 43829-11-02 12:43 G 17729578.96 17729579.03 17729579.10 0.1934 0.1511

Jupiter 43829-11-03 00:29 G 17729579.40 17729579.52 17729579.65 0.0517 0.0028

Moon 43833-09-08 18:43 G 17730985.24 17730985.28 17730985.32 0.2649 0.2456

Earth 43833-09-08 18:43 G 17730985.24 17730985.28 17730985.32 0.2655 0.2468 *

Mars 43834-07-16 18:14 G 17731296.13 17731296.26 17731296.40 0.1596 0.0930

Venus 43834-07-23 14:38 G 17731302.96 17731303.11 17731303.26 0.3681 0.1033

Jupiter 43835-12-26 06:00 G 17731823.56 17731823.75 17731823.93 0.0509 0.0014

Saturn 43837-07-19 08:24 G 17732394.74 17732394.85 17732394.96 0.0294 0.0162

Saturn 43837-10-15 19:55 G 17732483.20 17732483.33 17732483.46 0.0293 0.0002

Saturn 43838-01-12 07:26 G 17732571.70 17732571.81 17732571.92 0.0292 0.0159

Moon 43839-09-18 09:36 G 17733185.85 17733185.90 17733185.96 0.2659 0.2215

Earth 43839-09-18 09:50 G 17733185.85 17733185.91 17733185.97 0.2652 0.2180 *

Jupiter 43841-08-22 05:17 G 17733889.60 17733889.72 17733889.84 0.0517 0.0169

Jupiter 43841-11-19 09:07 G 17733978.81 17733978.88 17733978.95 0.0516 0.0417

Moon 43843-03-15 06:14 G 17734459.66 17734459.76 17734459.86 0.2680 0.2110

Earth 43843-03-15 07:55 G 17734459.71 17734459.83 17734459.95 0.2677 0.1781 *

Mars 43843-12-06 19:55 G 17734726.16 17734726.33 17734726.49 0.1597 0.0465

Uranus 43846-08-02 17:46 G 17735696.14 17735696.24 17735696.36 0.0137 0.0112

Moon 43846-09-11 11:17 G 17735735.87 17735735.97 17735736.06 0.2650 0.1278

Earth 43846-09-11 11:46 G 17735735.89 17735735.99 17735736.08 0.2655 0.1243 *

Uranus 43846-10-30 01:41 G 17735784.42 17735784.57 17735784.73 0.0136 0.0083

Uranus 43847-01-26 09:22 G 17735872.72 17735872.89 17735873.08 0.0136 0.0054

Uranus 43847-04-24 17:17 G 17735961.03 17735961.22 17735961.41 0.0136 0.0026

Uranus 43847-07-22 00:58 G 17736049.35 17736049.54 17736049.74 0.0136 0.0004

Jupiter 43847-10-14 01:55 G 17736133.42 17736133.58 17736133.75 0.0508 0.0224

Uranus 43847-10-18 08:38 G 17736137.67 17736137.86 17736138.06 0.0136 0.0031

Uranus 43848-01-14 16:19 G 17736226.01 17736226.18 17736226.36 0.0136 0.0059

Uranus 43848-04-12 00:00 G 17736314.35 17736314.50 17736314.65 0.0136 0.0087

Uranus 43848-07-09 07:26 G 17736402.72 17736402.81 17736402.92 0.0136 0.0115

Mars 43850-07-21 19:41 G 17737145.26 17737145.32 17737145.39 0.1937 0.1557

Jupiter 43853-06-10 10:05 G 17738199.82 17738199.92 17738200.02 0.0518 0.0315

Jupiter 43853-09-07 13:55 G 17738288.98 17738289.08 17738289.19 0.0516 0.0275

Saturn 43853-10-23 07:12 G 17738334.62 17738334.80 17738334.98 0.0270 0.0084

Venus 43853-12-06 22:05 G 17738379.34 17738379.42 17738379.49 0.3690 0.2433

Saturn 43854-01-20 06:00 G 17738423.57 17738423.75 17738423.93 0.0271 0.0108

Moon 43856-03-17 17:46 G 17739211.10 17739211.24 17739211.37 0.2685 0.1474

Earth 43856-03-17 18:14 G 17739211.13 17739211.26 17739211.40 0.2678 0.1434 *

Venus 43859-06-22 13:26 G 17740402.95 17740403.06 17740403.16 0.3690 0.0380

Jupiter 43859-08-01 22:05 G 17740443.33 17740443.42 17740443.51 0.0508 0.0439

Moon 43859-09-14 04:05 G 17740486.56 17740486.67 17740486.78 0.2654 0.0155

Earth 43859-09-14 04:34 G 17740486.59 17740486.69 17740486.80 0.2654 0.0106 *

Jupiter 43859-10-31 12:43 G 17740533.95 17740534.03 17740534.13 0.0509 0.0443

Mars 43859-12-12 04:19 G 17740575.56 17740575.68 17740575.79 0.1936 0.0124

Neptune 43864-03-01 00:58 G 17742116.50 17742116.54 17742116.60 0.0089 0.0085

Neptune 43864-05-28 04:34 G 17742204.60 17742204.69 17742204.82 0.0089 0.0074

Neptune 43864-08-24 08:10 G 17742292.72 17742292.84 17742293.00 0.0089 0.0063

Neptune 43864-11-20 12:14 G 17742380.86 17742381.01 17742381.18 0.0089 0.0051

Venus 43865-01-05 04:48 G 17742426.61 17742426.70 17742426.79 0.3689 0.1775

Neptune 43865-02-16 15:50 G 17742469.00 17742469.16 17742469.35 0.0089 0.0040

Jupiter 43865-03-29 15:07 G 17742510.08 17742510.13 17742510.19 0.0518 0.0454

Neptune 43865-05-15 19:55 G 17742557.14 17742557.33 17742557.52 0.0089 0.0028

Jupiter 43865-06-26 19:12 G 17742599.17 17742599.30 17742599.42 0.0517 0.0138

Neptune 43865-08-11 23:31 G 17742645.29 17742645.48 17742645.68 0.0089 0.0017

Neptune 43865-11-08 03:22 G 17742733.45 17742733.64 17742733.84 0.0089 0.0006

Neptune 43866-02-04 07:12 G 17742821.60 17742821.80 17742822.00 0.0089 0.0006

Neptune 43866-05-03 10:48 G 17742909.76 17742909.95 17742910.15 0.0089 0.0017

Neptune 43866-07-30 14:24 G 17742997.92 17742998.10 17742998.30 0.0089 0.0029

Neptune 43866-10-26 18:14 G 17743086.09 17743086.26 17743086.44 0.0089 0.0040

Saturn 43866-12-06 09:36 G 17743126.82 17743126.90 17743126.99 0.0294 0.0221

Neptune 43867-01-22 21:36 G 17743174.26 17743174.40 17743174.58 0.0089 0.0052

Saturn 43867-03-04 21:22 G 17743215.26 17743215.39 17743215.51 0.0293 0.0059

Neptune 43867-04-21 01:26 G 17743262.44 17743262.56 17743262.72 0.0089 0.0063

Saturn 43867-06-01 08:53 G 17743303.75 17743303.87 17743303.99 0.0292 0.0102

Neptune 43867-07-18 05:17 G 17743350.63 17743350.72 17743350.84 0.0089 0.0074

Saturn 43867-08-28 20:10 G 17743392.29 17743392.34 17743392.40 0.0291 0.0260

Neptune 43867-10-14 09:07 G 17743438.84 17743438.88 17743438.94 0.0089 0.0085

Mars 43869-05-03 12:43 G 17744005.95 17744006.03 17744006.11 0.1934 0.1343

Jupiter 43871-08-19 07:41 G 17744843.65 17744843.82 17744843.99 0.0509 0.0209

Moon 43872-09-15 21:07 G 17745237.28 17745237.38 17745237.47 0.2658 0.1194

Earth 43872-09-15 21:36 G 17745237.30 17745237.40 17745237.49 0.2653 0.1201 *

Mars 43874-01-14 19:12 G 17745723.18 17745723.30 17745723.42 0.1596 0.1158

Jupiter 43877-04-15 00:14 G 17746909.38 17746909.51 17746909.63 0.0517 0.0011

Moon 43879-09-09 23:17 G 17747787.42 17747787.47 17747787.53 0.2649 0.2254

Earth 43879-09-09 23:31 G 17747787.42 17747787.48 17747787.53 0.2655 0.2226 *

Saturn 43883-03-12 05:02 G 17749066.55 17749066.71 17749066.87 0.0269 0.0144

Mars 43883-06-06 20:38 G 17749153.19 17749153.36 17749153.53 0.1597 0.0245

Jupiter 43883-06-07 04:19 G 17749153.49 17749153.68 17749153.87 0.0509 0.0009 *

Saturn 43883-06-09 03:50 G 17749155.47 17749155.66 17749155.85 0.0270 0.0047

Saturn 43883-09-06 02:24 G 17749244.52 17749244.60 17749244.70 0.0271 0.0241

Moon 43885-09-18 14:38 G 17749988.06 17749988.11 17749988.15 0.2659 0.2384

Earth 43885-09-18 14:24 G 17749988.06 17749988.10 17749988.15 0.2652 0.2423 *

Jupiter 43889-02-01 04:48 G 17751219.58 17751219.70 17751219.82 0.0517 0.0153

Moon 43889-03-15 13:41 G 17751261.92 17751262.07 17751262.21 0.2681 0.1293

Earth 43889-03-15 15:07 G 17751261.98 17751262.13 17751262.28 0.2677 0.1195 *

Jupiter 43889-05-01 08:24 G 17751308.79 17751308.85 17751308.92 0.0515 0.0433

Uranus 43889-10-23 18:14 G 17751484.22 17751484.26 17751484.30 0.0141 0.0134

Mars 43890-01-19 19:55 G 17751572.28 17751572.33 17751572.37 0.1938 0.1731

Uranus 43890-01-19 21:22 G 17751572.32 17751572.39 17751572.47 0.0141 0.0113 *

Uranus 43890-04-18 00:43 G 17751660.44 17751660.53 17751660.63 0.0142 0.0092

Uranus 43890-07-15 04:05 G 17751748.56 17751748.67 17751748.79 0.0142 0.0071

Uranus 43890-10-11 07:26 G 17751836.69 17751836.81 17751836.94 0.0142 0.0050

Uranus 43891-01-07 10:48 G 17751924.83 17751924.95 17751925.08 0.0142 0.0030

Venus 43891-02-27 16:48 G 17751976.06 17751976.20 17751976.35 0.3681 0.1357

Uranus 43891-04-05 14:24 G 17752012.97 17752013.10 17752013.23 0.0142 0.0009

Uranus 43891-07-02 17:46 G 17752101.11 17752101.24 17752101.37 0.0142 0.0014

Uranus 43891-09-28 21:07 G 17752189.25 17752189.38 17752189.51 0.0142 0.0035

Uranus 43891-12-26 00:29 G 17752277.40 17752277.52 17752277.64 0.0142 0.0056

Uranus 43892-03-23 03:50 G 17752365.56 17752365.66 17752365.77 0.0142 0.0078

Uranus 43892-06-19 07:12 G 17752453.72 17752453.80 17752453.90 0.0142 0.0100

Moon 43892-09-11 15:50 G 17752538.07 17752538.16 17752538.26 0.2650 0.1083

Earth 43892-09-11 16:19 G 17752538.09 17752538.18 17752538.28 0.2655 0.1004 *

Uranus 43892-09-15 10:34 G 17752541.89 17752541.94 17752542.02 0.0142 0.0122

Jupiter 43895-03-26 00:58 G 17753463.37 17753463.54 17753463.71 0.0508 0.0211

Saturn 43896-04-24 10:48 G 17753858.92 17753858.95 17753858.98 0.0295 0.0285

Saturn 43896-07-21 22:19 G 17753947.32 17753947.43 17753947.55 0.0294 0.0122

Saturn 43896-10-18 10:05 G 17754035.79 17754035.92 17754036.04 0.0293 0.0041

Saturn 43897-01-14 21:36 G 17754124.30 17754124.40 17754124.49 0.0292 0.0200

Mars 43899-06-12 04:05 G 17755002.56 17755002.67 17755002.79 0.1936 0.0277

Jupiter 43900-11-21 09:22 G 17755529.79 17755529.89 17755529.99 0.0518 0.0300

Jupiter 43901-02-18 13:12 G 17755618.94 17755619.05 17755619.15 0.0516 0.0288

Moon 43902-03-20 00:43 G 17756013.42 17756013.53 17756013.65 0.2685 0.1833

Earth 43902-03-20 01:26 G 17756013.45 17756013.56 17756013.67 0.2678 0.2013 *

Moon 43905-09-15 08:38 G 17757288.76 17757288.86 17757288.97 0.2656 0.0195

Earth 43905-09-15 09:22 G 17757288.78 17757288.89 17757289.00 0.2654 0.0227 *

Jupiter 43907-01-12 20:53 G 17757773.28 17757773.37 17757773.48 0.0508 0.0426

Jupiter 43907-04-13 11:46 G 17757863.91 17757863.99 17757864.07 0.0509 0.0457

Mars 43908-11-02 12:29 G 17758432.93 17758433.02 17758433.11 0.1934 0.1193

Venus 43910-07-14 19:26 G 17759052.22 17759052.31 17759052.40 0.3690 0.1694

Saturn 43912-07-30 02:24 G 17759798.49 17759798.60 17759798.73 0.0269 0.0208

Jupiter 43912-09-09 14:10 G 17759840.03 17759840.09 17759840.15 0.0519 0.0447

Saturn 43912-10-27 01:12 G 17759887.36 17759887.55 17759887.75 0.0270 0.0018

Jupiter 43912-12-07 18:00 G 17759929.13 17759929.25 17759929.37 0.0517 0.0143

Saturn 43913-01-24 00:00 G 17759976.36 17759976.50 17759976.65 0.0271 0.0176

Mars 43913-07-16 19:55 G 17760150.24 17760150.33 17760150.41 0.1596 0.1372

Venus 43916-01-28 10:48 G 17761075.85 17761075.95 17761076.05 0.3689 0.0439

Moon 43918-09-18 01:55 G 17762039.49 17762039.58 17762039.67 0.2658 0.1341

Earth 43918-09-18 02:24 G 17762039.51 17762039.60 17762039.68 0.2653 0.1450 *

Jupiter 43919-01-30 07:41 G 17762173.66 17762173.82 17762173.99 0.0509 0.0239

Venus 43921-08-13 02:10 G 17763099.51 17763099.59 17763099.66 0.3689 0.2535

Mars 43922-12-06 21:22 G 17763580.22 17763580.39 17763580.56 0.1597 0.0020

Jupiter 43924-09-25 23:02 G 17764239.34 17764239.46 17764239.59 0.0517 0.0010

Moon 43925-09-11 03:50 G 17764589.59 17764589.66 17764589.73 0.2649 0.1974

Earth 43925-09-11 04:05 G 17764589.60 17764589.67 17764589.74 0.2655 0.1986 *

Saturn 43925-12-10 00:00 G 17764679.40 17764679.50 17764679.60 0.0294 0.0176

Saturn 43926-03-08 11:31 G 17764767.86 17764767.98 17764768.11 0.0293 0.0018

Saturn 43926-06-04 23:02 G 17764856.35 17764856.46 17764856.58 0.0292 0.0147

Mars 43929-07-21 19:55 G 17765999.31 17765999.33 17765999.34 0.1938 0.1906

Uranus 43930-05-27 17:31 G 17766309.19 17766309.23 17766309.28 0.0137 0.0132

Uranus 43930-08-24 01:12 G 17766397.43 17766397.55 17766397.69 0.0137 0.0103

Jupiter 43930-11-18 02:24 G 17766483.41 17766483.60 17766483.79 0.0509 0.0001

Uranus 43930-11-20 09:07 G 17766485.72 17766485.88 17766486.05 0.0136 0.0075

Uranus 43931-02-16 16:48 G 17766574.03 17766574.20 17766574.40 0.0136 0.0046

Uranus 43931-05-16 00:43 G 17766662.34 17766662.53 17766662.73 0.0136 0.0018

Uranus 43931-08-12 08:24 G 17766750.66 17766750.85 17766751.05 0.0136 0.0011

Uranus 43931-11-08 16:05 G 17766838.99 17766839.17 17766839.36 0.0136 0.0039

Uranus 43932-02-04 23:46 G 17766927.33 17766927.49 17766927.66 0.0136 0.0067

Mars 43932-04-27 22:48 G 17767010.37 17767010.45 17767010.53 0.1598 0.1418

Uranus 43932-05-03 07:26 G 17767015.68 17767015.81 17767015.95 0.0136 0.0095

Uranus 43932-07-30 14:53 G 17767104.05 17767104.12 17767104.21 0.0136 0.0123

Moon 43935-03-17 20:53 G 17768064.22 17768064.37 17768064.53 0.2683 0.0815

Earth 43935-03-17 22:05 G 17768064.26 17768064.42 17768064.58 0.2678 0.0614 *

Jupiter 43936-07-15 04:05 G 17768549.55 17768549.67 17768549.79 0.0517 0.0135

Jupiter 43936-10-12 07:55 G 17768638.77 17768638.83 17768638.89 0.0515 0.0450

Moon 43938-09-13 20:38 G 17769340.26 17769340.36 17769340.46 0.2651 0.0838

Earth 43938-09-13 21:07 G 17769340.28 17769340.38 17769340.48 0.2654 0.0755 *

Mars 43938-12-12 04:05 G 17769429.56 17769429.67 17769429.78 0.1936 0.0441

Saturn 43941-12-17 00:58 G 17770530.51 17770530.54 17770530.58 0.0268 0.0262

Saturn 43942-03-15 23:46 G 17770619.30 17770619.49 17770619.68 0.0269 0.0072

Venus 43942-03-21 09:07 G 17770624.85 17770624.88 17770624.91 0.3681 0.3613

Saturn 43942-06-12 22:34 G 17770708.27 17770708.44 17770708.61 0.0270 0.0119

Jupiter 43942-09-05 22:48 G 17770793.28 17770793.45 17770793.62 0.0508 0.0211

Neptune 43944-06-26 06:29 G 17771452.75 17771452.77 17771452.81 0.0089 0.0086

Neptune 43944-09-22 07:55 G 17771540.77 17771540.83 17771540.89 0.0089 0.0078

Neptune 43944-12-19 08:53 G 17771628.81 17771628.87 17771628.96 0.0089 0.0071

Neptune 43945-03-17 10:19 G 17771716.85 17771716.93 17771717.03 0.0089 0.0063

Neptune 43945-06-13 11:31 G 17771804.89 17771804.98 17771805.09 0.0089 0.0056

Neptune 43945-09-09 12:58 G 17771892.93 17771893.04 17771893.15 0.0089 0.0048

Neptune 43945-12-06 14:10 G 17771980.98 17771981.09 17771981.21 0.0089 0.0040

Neptune 43946-03-04 15:22 G 17772069.02 17772069.14 17772069.27 0.0089 0.0033

Neptune 43946-05-31 16:48 G 17772157.07 17772157.20 17772157.32 0.0089 0.0025

Neptune 43946-08-27 18:00 G 17772245.12 17772245.25 17772245.38 0.0089 0.0018

Neptune 43946-11-23 19:12 G 17772333.17 17772333.30 17772333.43 0.0089 0.0010

Neptune 43947-02-19 20:38 G 17772421.23 17772421.36 17772421.49 0.0089 0.0003

Neptune 43947-05-18 21:50 G 17772509.28 17772509.41 17772509.54 0.0089 0.0005

Neptune 43947-08-14 23:02 G 17772597.33 17772597.46 17772597.59 0.0089 0.0013

Neptune 43947-11-11 00:14 G 17772685.39 17772685.51 17772685.64 0.0089 0.0020

Neptune 43948-02-07 01:41 G 17772773.44 17772773.57 17772773.69 0.0089 0.0028

Moon 43948-03-20 08:10 G 17772815.82 17772815.84 17772815.85 0.2685 0.2667

Earth 43948-03-20 08:38 G 17772815.82 17772815.86 17772815.89 0.2678 0.2599 *

Jupiter 43948-05-03 08:38 G 17772859.76 17772859.86 17772859.96 0.0518 0.0286

Mars 43948-05-03 12:29 G 17772859.92 17772860.02 17772860.11 0.1934 0.1024 *

Neptune 43948-05-05 02:38 G 17772861.50 17772861.61 17772861.74 0.0089 0.0036

Jupiter 43948-07-31 12:29 G 17772948.92 17772949.02 17772949.12 0.0516 0.0301

Neptune 43948-08-01 04:05 G 17772949.56 17772949.67 17772949.79 0.0089 0.0043

Neptune 43948-10-28 05:17 G 17773037.62 17773037.72 17773037.83 0.0089 0.0051

Neptune 43949-01-24 06:43 G 17773125.68 17773125.78 17773125.88 0.0089 0.0058

Neptune 43949-04-22 07:41 G 17773213.75 17773213.82 17773213.92 0.0089 0.0066

Neptune 43949-07-19 08:53 G 17773301.81 17773301.87 17773301.96 0.0089 0.0074

Neptune 43949-10-15 10:19 G 17773389.89 17773389.93 17773389.99 0.0089 0.0081

Neptune 43950-01-11 11:31 G 17773477.98 17773477.98 17773478.00 0.0089 0.0089

Moon 43951-09-16 13:26 G 17774090.95 17774091.06 17774091.17 0.2656 0.0356

Earth 43951-09-16 14:10 G 17774090.98 17774091.09 17774091.19 0.2654 0.0475 *

Mars 43953-01-14 20:24 G 17774577.35 17774577.35 17774577.36 0.1596 0.1592

Jupiter 43954-06-24 19:26 G 17775103.21 17775103.31 17775103.42 0.0508 0.0419

Jupiter 43954-09-23 10:19 G 17775193.86 17775193.93 17775194.01 0.0510 0.0466

Saturn 43955-04-29 01:26 G 17775411.49 17775411.56 17775411.64 0.0295 0.0235

Saturn 43955-07-26 13:12 G 17775499.92 17775500.05 17775500.17 0.0294 0.0072

Saturn 43955-10-23 00:43 G 17775588.41 17775588.53 17775588.65 0.0293 0.0089

Saturn 43956-01-19 12:14 G 17775676.94 17775677.01 17775677.07 0.0291 0.0249

Jupiter 43960-02-20 13:12 G 17777169.99 17777170.05 17777170.12 0.0518 0.0435

Jupiter 43960-05-19 17:02 G 17777259.09 17777259.21 17777259.33 0.0516 0.0154

Venus 43961-08-05 01:26 G 17777701.50 17777701.56 17777701.61 0.3690 0.3017

Mars 43962-06-06 22:05 G 17778007.25 17778007.42 17778007.59 0.1597 0.0201

Moon 43964-09-18 06:43 G 17778841.70 17778841.78 17778841.86 0.2659 0.1697

Earth 43964-09-18 06:58 G 17778841.71 17778841.79 17778841.87 0.2653 0.1687 *

Pluto 43966-02-23 20:38 G 17779365.31 17779365.36 17779365.44 0.0068 0.0059

Pluto 43966-05-22 21:22 G 17779453.30 17779453.39 17779453.49 0.0068 0.0049

Jupiter 43966-07-12 06:14 G 17779503.60 17779503.76 17779503.93 0.0509 0.0247

Pluto 43966-08-18 21:50 G 17779541.31 17779541.41 17779541.53 0.0068 0.0038

Pluto 43966-11-14 22:34 G 17779629.32 17779629.44 17779629.56 0.0068 0.0028

Pluto 43967-02-10 23:02 G 17779717.33 17779717.46 17779717.59 0.0069 0.0018

Venus 43967-02-18 16:48 G 17779725.10 17779725.20 17779725.29 0.3690 0.0936

Pluto 43967-05-09 23:31 G 17779805.35 17779805.48 17779805.62 0.0069 0.0007

Pluto 43967-08-06 00:14 G 17779893.37 17779893.51 17779893.64 0.0069 0.0004

Pluto 43967-11-02 00:43 G 17779981.40 17779981.53 17779981.66 0.0069 0.0014

Pluto 43968-01-29 00:58 G 17780069.43 17780069.54 17780069.68 0.0069 0.0025

Pluto 43968-04-26 01:41 G 17780157.46 17780157.57 17780157.69 0.0069 0.0035

Pluto 43968-07-23 02:10 G 17780245.50 17780245.59 17780245.70 0.0069 0.0046

Pluto 43968-10-19 02:38 G 17780333.55 17780333.61 17780333.69 0.0069 0.0057

Pluto 43969-01-15 03:22 G 17780421.62 17780421.64 17780421.67 0.0069 0.0068

Saturn 43971-08-02 22:05 G 17781351.25 17781351.42 17781351.59 0.0269 0.0130

Moon 43971-09-12 08:38 G 17781391.78 17781391.86 17781391.94 0.2649 0.1822

Earth 43971-09-12 08:53 G 17781391.79 17781391.87 17781391.95 0.2655 0.1739 *

Mars 43971-10-27 23:31 G 17781437.37 17781437.48 17781437.59 0.1599 0.1199

Saturn 43971-10-30 20:53 G 17781440.18 17781440.37 17781440.56 0.0270 0.0061

Saturn 43972-01-27 19:26 G 17781529.26 17781529.31 17781529.38 0.0271 0.0255

Jupiter 43972-03-07 21:50 G 17781569.28 17781569.41 17781569.53 0.0517 0.0017

Venus 43972-09-03 08:10 G 17781748.74 17781748.84 17781748.93 0.3689 0.1193

Uranus 43973-11-14 00:43 G 17782185.50 17782185.53 17782185.59 0.0141 0.0132

Uranus 43974-02-10 04:05 G 17782273.60 17782273.67 17782273.76 0.0141 0.0111

Uranus 43974-05-09 07:41 G 17782361.72 17782361.82 17782361.92 0.0142 0.0090

Uranus	43974-08-05 11:02 G	17782449.84	17782449.96	17782450.07	0.0142	0.0069
Uranus	43974-11-01 14:24 G	17782537.98	17782538.10	17782538.22	0.0142	0.0048
Uranus	43975-01-28 17:46 G	17782626.11	17782626.24	17782626.37	0.0142	0.0027
Uranus	43975-04-26 21:07 G	17782714.25	17782714.38	17782714.51	0.0142	0.0006
Uranus	43975-07-24 00:29 G	17782802.39	17782802.52	17782802.65	0.0142	0.0016
Uranus	43975-10-20 03:50 G	17782890.54	17782890.66	17782890.79	0.0142	0.0037
Uranus	43976-01-16 07:12 G	17782978.68	17782978.80	17782978.92	0.0142	0.0059
Uranus	43976-04-13 10:34 G	17783066.84	17783066.94	17783067.05	0.0142	0.0081
Uranus	43976-07-10 13:55 G	17783155.00	17783155.08	17783155.18	0.0142	0.0102
Uranus	43976-10-06 17:31 G	17783243.17	17783243.23	17783243.30	0.0142	0.0124
Venus	43978-03-19 23:31 G	17783772.43	17783772.48	17783772.52	0.3689	0.3314
Jupiter	43978-04-30 02:10 G	17783813.40	17783813.59	17783813.78	0.0509	0.0026
Mars	43978-06-12 04:05 G	17783856.56	17783856.67	17783856.78	0.1936	0.0597
Moon	43981-03-18 04:05 G	17784866.51	17784866.67	17784866.84	0.2684	0.0145
Earth	43981-03-18 05:17 G	17784866.55	17784866.72	17784866.89	0.2678	0.0024 *
Jupiter	43983-12-26 02:53 G	17785879.50	17785879.62	17785879.74	0.0517	0.0133
Jupiter	43984-03-24 06:43 G	17785968.72	17785968.78	17785968.83	0.0516	0.0454
Moon	43984-09-14 01:12 G	17786142.45	17786142.55	17786142.66	0.2653	0.0569
Earth	43984-09-14 01:55 G	17786142.47	17786142.58	17786142.68	0.2654	0.0521 *
Saturn	43984-09-15 03:22 G	17786143.62	17786143.64	17786143.67	0.0295	0.0286
Saturn	43984-12-12 15:07 G	17786232.01	17786232.13	17786232.25	0.0294	0.0123
Saturn	43985-03-11 02:38 G	17786320.48	17786320.61	17786320.74	0.0292	0.0039
Saturn	43985-06-07 14:10 G	17786409.00	17786409.09	17786409.18	0.0291	0.0199
Mars	43987-11-02 12:29 G	17787286.92	17787287.02	17787287.12	0.1934	0.0846
Jupiter	43990-02-15 20:38 G	17788123.19	17788123.36	17788123.53	0.0508	0.0213
Jupiter	43995-10-14 07:55 G	17790189.72	17790189.83	17790189.93	0.0518	0.0274
Jupiter	43996-01-11 11:31 G	17790278.89	17790278.98	17790279.08	0.0516	0.0315
Moon	43997-09-16 18:14 G	17790893.15	17790893.26	17790893.36	0.2656	0.0637
Earth	43997-09-16 18:43 G	17790893.18	17790893.28	17790893.39	0.2654	0.0711 *
Venus	43998-10-26 11:31 G	17791297.83	17791297.98	17791298.13	0.3681	0.1158

Saturn 44000-12-19 21:07 G 17792083.24 17792083.38 17792083.52 0.0268 0.0181

45TH MILLENNIUM CE

This is a list of transits of Mercury in the 45th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	**44001-03-18 19:55**	**G**	**17792172.14**	**17792172.33**	**17792172.52**	**0.0269**	**0.0010**	
Saturn	**44001-06-15 18:29**	**G**	**17792261.15**	**17792261.27**	**17792261.40**	**0.0270**	**0.0203**	
Jupiter	**44001-12-04 16:48**	**G**	**17792433.10**	**17792433.20**	**17792433.30**	**0.0508**	**0.0427**	
Mars	**44001-12-05 22:48**	**G**	**17792434.29**	**17792434.45**	**17792434.61**	**0.1597**	**0.0426**	
Jupiter	**44002-03-05 07:41**	**G**	**17792523.74**	**17792523.82**	**17792523.90**	**0.0510**	**0.0458**	
Jupiter	**44007-08-02 12:14**	**G**	**17794499.94**	**17794500.01**	**17794500.08**	**0.0518**	**0.0426**	
Jupiter	**44007-10-30 16:05**	**G**	**17794589.05**	**17794589.17**	**17794589.29**	**0.0516**	**0.0162**	
Moon	**44010-09-19 11:31**	**G**	**17795643.91**	**17795643.98**	**17795644.06**	**0.2660**	**0.1894**	
Earth	**44010-09-19 11:46**	**G**	**17795643.92**	**17795643.99**	**17795644.06**	**0.2653**	**0.1929**	*
Mars	**44011-04-28 00:00**	**G**	**17795864.37**	**17795864.50**	**17795864.64**	**0.1599**	**0.0981**	
Jupiter	**44013-12-22 04:19**	**G**	**17796833.51**	**17796833.68**	**17796833.84**	**0.0509**	**0.0248**	
Earth	**44014-03-16 01:55**	**G**	**17796917.56**	**17796917.58**	**17796917.60**	**0.2677**	**0.2648**	
Saturn	**44014-05-01 16:48**	**G**	**17796964.11**	**17796964.20**	**17796964.31**	**0.0294**	**0.0177**	
Uranus	**44014-06-17 00:14**	**G**	**17797010.45**	**17797010.51**	**17797010.60**	**0.0137**	**0.0126**	
Saturn	**44014-07-29 04:34**	**G**	**17797052.56**	**17797052.69**	**17797052.82**	**0.0293**	**0.0013**	
Uranus	**44014-09-13 08:24**	**G**	**17797098.72**	**17797098.85**	**17797098.99**	**0.0137**	**0.0097**	
Saturn	**44014-10-25 16:05**	**G**	**17797141.06**	**17797141.17**	**17797141.28**	**0.0292**	**0.0148**	
Uranus	**44014-12-10 16:19**	**G**	**17797187.01**	**17797187.18**	**17797187.35**	**0.0136**	**0.0068**	

Uranus 44015-03-09 00:00 G 17797275.32 17797275.50 17797275.69 0.0136 0.0039

Uranus 44015-06-05 07:41 G 17797363.63 17797363.82 17797364.02 0.0136 0.0012

Uranus 44015-09-01 15:36 G 17797451.95 17797452.15 17797452.34 0.0136 0.0017

Uranus 44015-11-28 23:17 G 17797540.28 17797540.47 17797540.65 0.0136 0.0046

Uranus 44016-02-25 06:29 G 17797628.62 17797628.77 17797628.95 0.0136 0.0075

Uranus 44016-05-23 14:10 G 17797716.98 17797717.09 17797717.23 0.0136 0.0102

Uranus 44016-08-19 22:05 G 17797805.36 17797805.42 17797805.48 0.0136 0.0129

Moon 44017-09-12 13:12 G 17798193.96 17798194.05 17798194.14 0.2649 0.1485

Earth 44017-09-12 13:41 G 17798193.98 17798194.07 17798194.15 0.2655 0.1499 *

Mars 44017-12-11 04:05 G 17798283.57 17798283.67 17798283.77 0.1936 0.0770

Venus 44018-03-11 22:48 G 17798374.37 17798374.45 17798374.53 0.3690 0.2265

Jupiter 44019-08-18 20:38 G 17798899.23 17798899.36 17798899.49 0.0517 0.0014

Venus 44023-09-25 14:10 G 17800397.99 17800398.09 17800398.19 0.3689 0.0198

Jupiter 44025-10-10 00:14 G 17801143.32 17801143.51 17801143.70 0.0509 0.0028

Moon 44027-03-19 11:17 G 17801668.81 17801668.97 17801669.13 0.2684 0.0426

Earth 44027-03-19 12:14 G 17801668.85 17801669.01 17801669.18 0.2678 0.0559 *

Mars 44027-05-03 12:14 G 17801713.91 17801714.01 17801714.12 0.1934 0.0707

Neptune 44028-11-26 23:31 G 17802287.41 17802287.48 17802287.58 0.0089 0.0080

Neptune 44029-02-23 03:07 G 17802375.53 17802375.63 17802375.78 0.0089 0.0069

Venus 44029-04-10 05:31 G 17802421.64 17802421.73 17802421.81 0.3689 0.1959

Neptune 44029-05-22 07:12 G 17802463.66 17802463.80 17802463.96 0.0089 0.0057

Neptune 44029-08-18 10:48 G 17802551.80 17802551.95 17802552.14 0.0089 0.0046

Neptune 44029-11-14 14:53 G 17802639.94 17802640.12 17802640.31 0.0089 0.0034

Neptune 44030-02-10 18:43 G 17802728.09 17802728.28 17802728.47 0.0089 0.0023

Saturn 44030-05-08 20:10 G 17802815.25 17802815.34 17802815.43 0.0268 0.0233

Neptune 44030-05-09 22:19 G 17802816.24 17802816.43 17802816.63 0.0089 0.0012

Saturn 44030-08-05 18:43 G 17802904.09 17802904.28 17802904.48 0.0269 0.0043

Neptune 44030-08-06 02:10 G 17802904.40 17802904.59 17802904.79 0.0089 0.0002 *

Moon 44030-09-15 06:00 G 17802944.64 17802944.75 17802944.85 0.2654 0.0429

Earth 44030-09-15 06:29 G 17802944.67 17802944.77 17802944.88 0.2654 0.0279 *

Neptune 44030-11-02 06:00 G 17802992.55 17802992.75 17802992.95 0.0089 0.0011

Saturn 44030-11-02 17:31 G 17802993.07 17802993.23 17802993.39 0.0270 0.0150

Neptune 44031-01-29 09:36 G 17803080.72 17803080.90 17803081.10 0.0089 0.0023

Neptune 44031-04-27 13:12 G 17803168.88 17803169.05 17803169.24 0.0089 0.0035

Jupiter 44031-06-07 01:12 G 17803209.43 17803209.55 17803209.67 0.0518 0.0136

Neptune 44031-07-24 16:48 G 17803257.05 17803257.20 17803257.39 0.0089 0.0046

Jupiter 44031-09-04 05:02 G 17803298.65 17803298.71 17803298.77 0.0516 0.0450

Neptune 44031-10-20 20:38 G 17803345.22 17803345.36 17803345.52 0.0089 0.0057

Neptune 44032-01-17 00:43 G 17803433.40 17803433.53 17803433.65 0.0089 0.0068

Neptune 44032-04-14 03:50 G 17803521.60 17803521.66 17803521.77 0.0089 0.0080

Jupiter 44037-07-28 19:55 G 17805453.15 17805453.33 17805453.50 0.0508 0.0195

Mars 44041-06-05 23:31 G 17806861.32 17806861.48 17806861.64 0.1597 0.0650

Jupiter 44043-03-26 06:14 G 17807519.65 17807519.76 17807519.87 0.0518 0.0277

Jupiter 44043-06-23 10:05 G 17807608.82 17807608.92 17807609.02 0.0516 0.0312

Moon 44043-09-17 23:02 G 17807695.36 17807695.46 17807695.56 0.2657 0.0892

Earth 44043-09-17 23:31 G 17807695.38 17807695.48 17807695.58 0.2653 0.0949 *

Saturn 44043-09-18 19:26 G 17807696.22 17807696.31 17807696.39 0.0294 0.0221

Saturn 44043-12-16 06:58 G 17807784.67 17807784.79 17807784.92 0.0293 0.0058

Saturn 44044-03-13 18:29 G 17807873.15 17807873.27 17807873.39 0.0292 0.0104

Saturn 44044-06-10 06:00 G 17807961.70 17807961.75 17807961.80 0.0291 0.0262

Jupiter 44049-05-16 14:10 G 17809763.00 17809763.09 17809763.19 0.0508 0.0434

Jupiter 44049-08-15 05:02 G 17809853.62 17809853.71 17809853.80 0.0510 0.0449

Moon 44050-09-11 01:12 G 17810245.51 17810245.55 17810245.59 0.2649 0.2431

Earth 44050-09-11 01:12 G 17810245.52 17810245.55 17810245.59 0.2656 0.2484 *

Mars 44050-10-27 00:58 G 17810291.39 17810291.54 17810291.69 0.1599 0.0751

Pluto 44052-09-20 02:38 G 17810985.49 17810985.61 17810985.74 0.0075 0.0057

Pluto 44052-12-17 05:02 G 17811073.55 17811073.71 17811073.89 0.0075 0.0037

Pluto 44053-03-15 07:41 G 17811161.63 17811161.82 17811162.01 0.0075 0.0016

Pluto 44053-06-11 10:05 G 17811249.73 17811249.92 17811250.12 0.0075 0.0004

Pluto 44053-09-07 12:29 G 17811337.84 17811338.02 17811338.21 0.0075 0.0024

Pluto 44053-12-04 14:38 G 17811425.97 17811426.11 17811426.29 0.0075 0.0044

Pluto 44054-03-02 17:31 G 17811514.13 17811514.23 17811514.34 0.0075 0.0063

Jupiter 44055-01-12 11:02 G 17811829.89 17811829.96 17811830.04 0.0518 0.0420

Jupiter 44055-04-11 14:53 G 17811919.01 17811919.12 17811919.24 0.0516 0.0171

Venus 44055-06-02 13:55 G 17811970.94 17811971.08 17811971.23 0.3681 0.1294

Moon 44056-09-19 16:19 G 17812446.12 17812446.18 17812446.24 0.2660 0.2173

Earth 44056-09-19 16:34 G 17812446.13 17812446.19 17812446.25 0.2653 0.2168 *

Mars 44057-06-11 04:05 G 17812710.57 17812710.67 17812710.76 0.1936 0.0928

Uranus 44057-12-04 07:26 G 17812886.77 17812886.81 17812886.87 0.0141 0.0130

Uranus 44058-03-02 10:48 G 17812974.88 17812974.95 17812975.04 0.0141 0.0109

Uranus 44058-05-29 14:10 G 17813063.00 17813063.09 17813063.20 0.0142 0.0088

Uranus 44058-08-25 17:31 G 17813151.12 17813151.23 17813151.35 0.0142 0.0067

Uranus 44058-11-21 21:07 G 17813239.25 17813239.38 17813239.50 0.0142 0.0046

Uranus 44059-02-18 00:29 G 17813327.39 17813327.52 17813327.65 0.0142 0.0025

Uranus 44059-05-17 03:50 G 17813415.53 17813415.66 17813415.79 0.0142 0.0004

Uranus 44059-08-13 07:12 G 17813503.67 17813503.80 17813503.93 0.0142 0.0018

Uranus 44059-11-09 10:34 G 17813591.81 17813591.94 17813592.07 0.0142 0.0039

Saturn 44059-12-23 18:43 G 17813636.09 17813636.28 17813636.46 0.0269 0.0087

Uranus 44060-02-05 13:55 G 17813679.96 17813680.08 17813680.20 0.0142 0.0061

Moon 44060-03-16 07:26 G 17813719.72 17813719.81 17813719.91 0.2681 0.2153

Earth 44060-03-16 09:07 G 17813719.78 17813719.88 17813719.98 0.2677 0.2068 *

Saturn 44060-03-21 17:31 G 17813725.05 17813725.23 17813725.40 0.0270 0.0105

Uranus 44060-05-03 17:17 G 17813768.12 17813768.22 17813768.33 0.0142 0.0083

Uranus 44060-07-30 20:38 G 17813856.28 17813856.36 17813856.45 0.0142 0.0104

Uranus 44060-10-27 00:14 G 17813944.45 17813944.51 17813944.57 0.0142 0.0126

Jupiter 44061-06-03 01:12 G 17814163.38 17814163.55 17814163.71 0.0509 0.0233

Moon 44063-09-13 17:46 G 17814996.15 17814996.24 17814996.34 0.2650 0.1372

Earth 44063-09-13 18:14 G 17814996.17 17814996.26 17814996.36 0.2655 0.1257 *

Mars 44066-11-01 12:29 G 17816140.91 17816141.02 17816141.13 0.1934 0.0525

Jupiter 44067-01-28 19:26 G 17816229.18 17816229.31 17816229.43 0.0517 0.0019

Venus 44069-04-02 04:48 G 17817023.68 17817023.70 17817023.72 0.3690 0.3585

Saturn 44073-02-04 21:36 G 17818428.35 17818428.40 17818428.45 0.0295 0.0269

Moon 44073-03-19 18:43 G 17818471.13 17818471.28 17818471.43 0.2684 0.1018

Earth 44073-03-19 19:26 G 17818471.16 17818471.31 17818471.46 0.2678 0.1136 *

Jupiter 44073-03-21 21:36 G 17818473.21 17818473.40 17818473.59 0.0509 0.0021

Saturn 44073-05-04 09:22 G 17818516.77 17818516.89 17818517.01 0.0294 0.0105

Saturn 44073-07-31 20:53 G 17818605.25 17818605.37 17818605.50 0.0293 0.0057

Saturn 44073-10-28 08:24 G 17818693.77 17818693.85 17818693.94 0.0292 0.0217

Venus 44074-10-16 20:10 G 17819047.25 17819047.34 17819047.43 0.3690 0.1500

Moon 44076-09-15 10:34 G 17819746.83 17819746.94 17819747.05 0.2654 0.0070

Earth 44076-09-15 11:17 G 17819746.86 17819746.97 17819747.08 0.2654 0.0038 *

Jupiter 44078-11-17 00:00 G 17820539.38 17820539.50 17820539.62 0.0517 0.0134

Jupiter 44079-02-14 03:36 G 17820628.60 17820628.65 17820628.71 0.0515 0.0452

Venus 44080-05-01 11:31 G 17821070.88 17821070.98 17821071.08 0.3689 0.0616

Mars 44080-12-05 00:14 G 17821288.37 17821288.51 17821288.65 0.1597 0.0868

Jupiter 44085-01-07 17:31 G 17822783.05 17822783.23 17822783.40 0.0508 0.0199

Venus 44085-11-15 02:53 G 17823094.55 17823094.62 17823094.68 0.3689 0.2735

Saturn 44089-05-11 18:14 G 17824368.09 17824368.26 17824368.43 0.0269 0.0134

Saturn 44089-08-08 17:02 G 17824457.02 17824457.21 17824457.40 0.0270 0.0058

Moon 44089-09-18 03:50 G 17824497.56 17824497.66 17824497.76 0.2658 0.1103

Earth 44089-09-18 04:19 G 17824497.58 17824497.68 17824497.77 0.2653 0.1197 *

Saturn 44089-11-05 15:50 G 17824546.09 17824546.16 17824546.23 0.0271 0.0251

Mars 44090-04-27 01:41 G 17824718.41 17824718.57 17824718.73 0.1599 0.0534

Jupiter 44090-09-05 04:19 G 17824849.58 17824849.68 17824849.79 0.0518 0.0286

Jupiter 44090-12-03 08:10 G 17824938.74 17824938.84 17824938.94 0.0516 0.0303

Moon 44096-09-11 06:00 G 17827047.70 17827047.75 17827047.80 0.2649 0.2279

Earth 44096-09-11 06:00 G 17827047.70 17827047.75 17827047.81 0.2656 0.2239 *

Jupiter 44096-10-26 12:58 G 17827092.94 17827093.04 17827093.15 0.0508 0.0422

Mars 44096-12-10 04:05 G 17827137.58 17827137.67 17827137.76 0.1936 0.1103

Jupiter 44097-01-25 03:36 G 17827183.58 17827183.65 17827183.74 0.0509 0.0462

Uranus 44098-07-07 06:58 G 17827711.71 17827711.79 17827711.89 0.0137 0.0121

Uranus 44098-10-03 14:53 G 17827799.98 17827800.12 17827800.27 0.0137 0.0092

Uranus 44098-12-30 22:34 G 17827888.28 17827888.44 17827888.63 0.0136 0.0064

Uranus 44099-03-29 06:29 G 17827976.59 17827976.77 17827976.96 0.0136 0.0035

Uranus 44099-06-25 14:24 G 17828064.90 17828065.10 17828065.29 0.0136 0.0006

Uranus 44099-09-21 22:05 G 17828153.23 17828153.42 17828153.61 0.0136 0.0022

Uranus 44099-12-19 05:46 G 17828241.56 17828241.74 17828241.92 0.0136 0.0050

Uranus 44100-03-17 13:26 G 17828329.90 17828330.06 17828330.22 0.0136 0.0079

Uranus 44100-06-13 20:53 G 17828418.26 17828418.37 17828418.50 0.0136 0.0106

Uranus 44100-09-10 04:19 G 17828506.66 17828506.68 17828506.72 0.0136 0.0134

Jupiter 44102-06-25 09:22 G 17829159.82 17829159.89 17829159.96 0.0519 0.0429

Moon 44102-09-21 21:07 G 17829248.34 17829248.38 17829248.42 0.2659 0.2415

Earth 44102-09-21 21:07 G 17829248.34 17829248.38 17829248.42 0.2652 0.2408 *

Saturn 44102-09-22 12:14 G 17829248.90 17829249.01 17829249.12 0.0294 0.0145

Jupiter 44102-09-22 13:12 G 17829248.93 17829249.05 17829249.17 0.0517 0.0162 *

Saturn 44102-12-19 23:46 G 17829337.36 17829337.49 17829337.62 0.0293 0.0018

Saturn 44103-03-18 11:17 G 17829425.87 17829425.97 17829426.07 0.0291 0.0178

Moon 44106-03-18 14:38 G 17830521.99 17830522.11 17830522.23 0.2682 0.1799

Earth 44106-03-18 16:05 G 17830522.03 17830522.17 17830522.31 0.2677 0.1492 *

Mars 44106-05-03 12:14 G 17830567.90 17830568.01 17830568.12 0.1934 0.0362

Jupiter 44108-11-13 22:05 G 17831493.25 17831493.42 17831493.59 0.0509 0.0219

Neptune 44109-03-24 06:29 G 17831623.73 17831623.77 17831623.83 0.0089 0.0082

Neptune 44109-06-20 07:55 G 17831711.76 17831711.83 17831711.90 0.0089 0.0074

Moon 44109-09-14 22:34 G 17831798.34 17831798.44 17831798.53 0.2652 0.1045

Earth 44109-09-14 23:02 G 17831798.36 17831798.46 17831798.56 0.2655 0.1012 *

Neptune 44109-09-16 08:53 G 17831799.80 17831799.87 17831799.97 0.0089 0.0067

Neptune 44109-12-13 10:05 G 17831887.84 17831887.92 17831888.03 0.0089 0.0060

Neptune 44110-03-11 11:31 G 17831975.88 17831975.98 17831976.09 0.0089 0.0052

Neptune 44110-06-07 12:58 G 17832063.93 17832064.04 17832064.15 0.0089 0.0044

Neptune 44110-09-03 14:10 G 17832151.97 17832152.09 17832152.21 0.0089 0.0037

Neptune 44110-11-30 15:22 G 17832240.02 17832240.14 17832240.27 0.0089 0.0029

Neptune 44111-02-26 16:34 G 17832328.07 17832328.19 17832328.32 0.0089 0.0022

Neptune 44111-05-25 18:00 G 17832416.12 17832416.25 17832416.38 0.0089 0.0014

Neptune 44111-08-21 19:12 G 17832504.17 17832504.30 17832504.43 0.0089 0.0006

Neptune 44111-11-17 20:24 G 17832592.22 17832592.35 17832592.48 0.0089 0.0002

Venus 44112-01-08 16:19 G 17832644.17 17832644.18 17832644.18 0.3682 0.3675

Neptune 44112-02-13 21:50 G 17832680.28 17832680.41 17832680.54 0.0089 0.0009

Neptune 44112-05-11 23:02 G 17832768.33 17832768.46 17832768.59 0.0089 0.0016

Neptune 44112-08-08 00:14 G 17832856.38 17832856.51 17832856.64 0.0089 0.0024

Neptune 44112-11-04 01:26 G 17832944.44 17832944.56 17832944.69 0.0089 0.0031

Neptune 44113-01-31 02:38 G 17833032.50 17833032.61 17833032.73 0.0089 0.0039

Neptune 44113-04-29 03:50 G 17833120.56 17833120.66 17833120.78 0.0089 0.0047

Neptune 44113-07-26 05:17 G 17833208.62 17833208.72 17833208.83 0.0089 0.0054

Neptune 44113-10-22 06:29 G 17833296.68 17833296.77 17833296.87 0.0089 0.0062

Neptune 44114-01-18 07:41 G 17833384.75 17833384.82 17833384.91 0.0089 0.0069

Neptune 44114-04-16 08:53 G 17833472.82 17833472.87 17833472.95 0.0089 0.0077

Jupiter 44114-07-11 18:00 G 17833559.13 17833559.25 17833559.38 0.0517 0.0025

Neptune 44114-07-13 10:05 G 17833560.90 17833560.92 17833560.97 0.0089 0.0085

Mars 44115-09-23 20:38 G 17833998.33 17833998.36 17833998.40 0.1932 0.1813

Saturn 44118-09-29 18:29 G 17835100.13 17835100.27 17835100.42 0.0269 0.0176

Saturn 44118-12-27 17:17 G 17835189.03 17835189.22 17835189.41 0.0269 0.0016

Moon 44119-03-22 02:10 G 17835273.47 17835273.59 17835273.71 0.2684 0.1753

Earth 44119-03-22 02:24 G 17835273.48 17835273.60 17835273.73 0.2678 0.1715 *

Saturn 44119-03-26 15:50 G 17835278.05 17835278.16 17835278.29 0.0270 0.0210

Mars 44120-06-06 00:58 G 17835715.42 17835715.54 17835715.66 0.1597 0.1090

Jupiter 44120-09-01 18:00 G 17835803.06 17835803.25 17835803.44 0.0509 0.0001

Moon 44122-09-17 15:22 G 17836549.03 17836549.14 17836549.25 0.2654 0.0074

Earth 44122-09-17 16:05 G 17836549.06 17836549.17 17836549.27 0.2654 0.0241 *

Venus 44125-11-08 02:10 G 17837696.53 17837696.59 17837696.65 0.3690 0.2831

Jupiter 44126-04-29 22:19 G 17837869.31 17837869.43 17837869.55 0.0517 0.0136

Jupiter 44126-07-28 02:10 G 17837958.53 17837958.59 17837958.65 0.0515 0.0450

Mars 44129-10-27 02:24 G 17839145.43 17839145.60 17839145.76 0.1599 0.0311

Venus 44131-05-24 17:31 G 17839720.13 17839720.23 17839720.33 0.3690 0.0734

Saturn 44132-02-09 14:53 G 17839981.02 17839981.12 17839981.22 0.0294 0.0186

Saturn 44132-05-08 02:24 G 17840069.48 17840069.60 17840069.73 0.0293 0.0025

Jupiter 44132-06-20 14:24 G 17840112.93 17840113.10 17840113.27 0.0508 0.0212

Saturn 44132-08-04 13:55 G 17840157.97 17840158.08 17840158.20 0.0292 0.0138

Moon 44135-09-20 08:38 G 17841299.77 17841299.86 17841299.95 0.2659 0.1439

Earth 44135-09-20 08:53 G 17841299.78 17841299.87 17841299.96 0.2653 0.1430 *

Mars 44136-06-11 03:50 G 17841564.58 17841564.66 17841564.75 0.1936 0.1261

Venus 44136-12-07 08:53 G 17841743.77 17841743.87 17841743.96 0.3689 0.1383

Jupiter 44138-02-16 02:53 G 17842179.52 17842179.62 17842179.72 0.0518 0.0287

Jupiter 44138-05-16 06:43 G 17842268.68 17842268.78 17842268.88 0.0516 0.0301

Uranus 44141-12-25 14:38 G 17843588.06 17843588.11 17843588.17 0.0141 0.0125

Uranus 44142-03-23 18:00 G 17843676.17 17843676.25 17843676.34 0.0141 0.0105

Uranus 44142-06-19 21:22 G 17843764.29 17843764.39 17843764.50 0.0142 0.0084

Venus 44142-06-23 00:14 G 17843767.48 17843767.51 17843767.54 0.3689 0.3515

Moon 44142-09-13 10:34 G 17843849.87 17843849.94 17843850.01 0.2649 0.1987

Earth 44142-09-13 10:48 G 17843849.88 17843849.95 17843850.02 0.2655 0.1993 *

Uranus 44142-09-16 00:43 G 17843852.41 17843852.53 17843852.65 0.0142 0.0063

Uranus 44142-12-13 04:05 G 17843940.55 17843940.67 17843940.79 0.0142 0.0042

Uranus 44143-03-11 07:26 G 17844028.68 17844028.81 17844028.94 0.0142 0.0021

Uranus 44143-06-07 10:48 G 17844116.82 17844116.95 17844117.08 0.0142 0.0001

Uranus 44143-09-03 14:10 G 17844204.96 17844205.09 17844205.22 0.0142 0.0022

Uranus 44143-11-30 17:31 G 17844293.11 17844293.23 17844293.36 0.0142 0.0043

Uranus 44144-02-26 20:53 G 17844381.26 17844381.37 17844381.49 0.0142 0.0065

Jupiter 44144-04-08 10:05 G 17844422.83 17844422.92 17844423.02 0.0508 0.0432

Uranus 44144-05-25 00:14 G 17844469.41 17844469.51 17844469.62 0.0142 0.0086

Jupiter 44144-07-08 00:58 G 17844513.46 17844513.54 17844513.63 0.0509 0.0452

Uranus 44144-08-21 03:50 G 17844557.57 17844557.66 17844557.74 0.0142 0.0108

Uranus 44144-11-17 06:58 G 17844645.75 17844645.79 17844645.85 0.0142 0.0130

Mars 44145-11-01 12:14 G 17844994.90 17844995.01 17844995.12 0.1934 0.0206

Saturn 44148-02-16 18:14 G 17845832.16 17845832.26 17845832.38 0.0269 0.0220

Saturn 44148-05-15 17:17 G 17845921.03 17845921.22 17845921.41 0.0270 0.0028

Saturn 44148-08-12 15:50 G 17846010.02 17846010.16 17846010.32 0.0271 0.0166

Moon 44148-09-22 01:55 G 17846050.58 17846050.58 17846050.59 0.2659 0.2649

Earth 44148-09-22 01:55 G 17846050.58 17846050.58 17846050.58 0.2652 0.2648 *

Jupiter 44149-12-05 07:12 G 17846489.74 17846489.80 17846489.87 0.0519 0.0442

Jupiter 44150-03-04 11:02 G 17846578.84 17846578.96 17846579.08 0.0517 0.0150

Moon 44152-03-18 21:50 G 17847324.26 17847324.41 17847324.56 0.2682 0.0968

Earth 44152-03-18 23:17 G 17847324.31 17847324.47 17847324.62 0.2677 0.0911 *

Mars 44155-03-24 20:38 G 17848425.31 17848425.36 17848425.42 0.1932 0.1639

Moon 44155-09-16 03:07 G 17848600.53 17848600.63 17848600.73 0.2652 0.0897

Earth 44155-09-16 03:50 G 17848600.55 17848600.66 17848600.76 0.2655 0.0777 *

Jupiter 44156-04-25 20:24 G 17848823.18 17848823.35 17848823.52 0.0509 0.0225

Mars 44159-12-06 01:41 G 17850142.48 17850142.57 17850142.67 0.1597 0.1321

Saturn 44161-06-28 18:00 G 17850713.17 17850713.25 17850713.34 0.0294 0.0221

Saturn 44161-09-25 05:46 G 17850801.61 17850801.74 17850801.86 0.0293 0.0058

Jupiter 44161-12-21 16:05 G 17850889.04 17850889.17 17850889.29 0.0517 0.0013

Saturn 44161-12-22 17:17 G 17850890.10 17850890.22 17850890.34 0.0292 0.0103

Saturn 44162-03-21 04:48 G 17850978.64 17850978.70 17850978.75 0.0291 0.0262

Venus 44163-01-29 08:24 G 17851292.70 17851292.85 17851293.00 0.3681 0.1310

Moon 44165-03-22 09:36 G 17852075.81 17852075.90 17852075.99 0.2685 0.2210

Earth 44165-03-22 09:36 G 17852075.81 17852075.90 17852075.98 0.2678 0.2294 *

Jupiter 44168-02-12 14:53 G 17853132.93 17853133.12 17853133.30 0.0508 0.0019

Moon 44168-09-17 20:10 G 17853351.23 17853351.34 17853351.44 0.2656 0.0432

Earth 44168-09-17 20:38 G 17853351.26 17853351.36 17853351.47 0.2654 0.0454 *

Mars 44169-04-27 03:07 G 17853572.46 17853572.63 17853572.80 0.1599 0.0083

Jupiter 44173-10-09 20:53 G 17855199.25 17855199.37 17855199.49 0.0518 0.0138

Jupiter 44174-01-07 00:29 G 17855288.47 17855288.52 17855288.59 0.0516 0.0450

Mars 44175-12-11 03:50 G 17855991.59 17855991.66 17855991.74 0.1936 0.1428

Saturn 44177-07-05 18:58 G 17856564.25 17856564.29 17856564.35 0.0268 0.0258

Saturn 44177-10-02 17:46 G 17856653.06 17856653.24 17856653.43 0.0269 0.0067

Saturn 44177-12-30 16:34 G 17856742.02 17856742.19 17856742.37 0.0270 0.0126

Mars 44178-09-17 04:19 G 17857002.63 17857002.68 17857002.74 0.1600 0.1495

Jupiter 44179-12-01 10:34 G 17857442.77 17857442.94 17857443.11 0.0508 0.0236

Moon 44181-09-20 13:26 G 17858101.97 17858102.06 17858102.14 0.2659 0.1581

Earth 44181-09-20 13:41 G 17858101.99 17858102.07 17858102.15 0.2653 0.1673 *

Venus 44182-06-14 23:31 G 17858369.40 17858369.48 17858369.56 0.3690 0.2074

Uranus 44182-07-28 13:12 G 17858412.96 17858413.05 17858413.17 0.0137 0.0117

Uranus 44182-10-24 21:07 G 17858501.24 17858501.38 17858501.54 0.0137 0.0088

Uranus 44183-01-21 05:02 G 17858589.54 17858589.71 17858589.89 0.0137 0.0059

Uranus 44183-04-19 12:43 G 17858677.85 17858678.03 17858678.23 0.0136 0.0031

Uranus 44183-07-16 20:38 G 17858766.17 17858766.36 17858766.56 0.0136 0.0002

Uranus 44183-10-13 04:19 G 17858854.49 17858854.68 17858854.87 0.0136 0.0027

Uranus 44184-01-09 11:46 G 17858942.82 17858942.99 17858943.18 0.0136 0.0055

Uranus 44184-04-06 19:26 G 17859031.17 17859031.31 17859031.48 0.0136 0.0083

Uranus 44184-07-04 02:53 G 17859119.53 17859119.62 17859119.75 0.0136 0.0111

Mars 44185-05-02 12:14 G 17859421.90 17859422.01 17859422.12 0.1934 0.0036

Jupiter 44185-07-29 01:12 G 17859509.45 17859509.55 17859509.65 0.0518 0.0294

Jupiter 44185-10-26 05:02 G 17859598.60 17859598.71 17859598.81 0.0516 0.0295

Venus 44187-12-29 14:53 G 17860393.02 17860393.12 17860393.22 0.3689 0.0057

Moon 44188-09-13 15:07 G 17860652.05 17860652.13 17860652.21 0.2650 0.1784

Earth 44188-09-13 15:36 G 17860652.07 17860652.15 17860652.23 0.2655 0.1751 *

Saturn 44190-11-15 21:07 G 17861445.32 17861445.38 17861445.44 0.0295 0.0260

Saturn 44191-02-12 08:38 G 17861533.74 17861533.86 17861533.98 0.0294 0.0096

Saturn 44191-05-11 20:10 G 17861622.22 17861622.34 17861622.47 0.0293 0.0066

Saturn 44191-08-08 07:41 G 17861710.74 17861710.82 17861710.90 0.0291 0.0225

Jupiter 44191-09-19 06:43 G 17861752.70 17861752.78 17861752.87 0.0508 0.0450

Jupiter 44191-12-18 21:36 G 17861843.31 17861843.40 17861843.50 0.0510 0.0435

Neptune 44193-05-28 18:43 G 17862370.24 17862370.28 17862370.32 0.0089 0.0086

Venus 44193-07-14 06:14 G 17862416.67 17862416.76 17862416.84 0.3689 0.2150

Neptune 44193-08-24 22:05 G 17862458.33 17862458.42 17862458.54 0.0089 0.0075

Neptune 44193-11-21 01:55 G 17862546.46 17862546.58 17862546.73 0.0089 0.0064

Neptune 44194-02-17 05:46 G 17862634.59 17862634.74 17862634.91 0.0089 0.0052

Neptune 44194-05-16 09:36 G 17862722.73 17862722.90 17862723.08 0.0089 0.0041

Neptune 44194-08-12 13:41 G 17862810.88 17862811.07 17862811.25 0.0089 0.0029

Mars 44194-09-22 20:38 G 17862852.29 17862852.36 17862852.43 0.1931 0.1485

Neptune 44194-11-08 17:17 G 17862899.03 17862899.22 17862899.42 0.0089 0.0018

Neptune 44195-02-04 21:07 G 17862987.18 17862987.38 17862987.58 0.0089 0.0006

Neptune 44195-05-04 00:43 G 17863075.34 17863075.53 17863075.73 0.0089 0.0006

Neptune 44195-07-31 04:34 G 17863163.50 17863163.69 17863163.89 0.0089 0.0017

Neptune 44195-10-27 08:10 G 17863251.66 17863251.84 17863252.04 0.0089 0.0028

Neptune 44196-01-23 11:46 G 17863339.83 17863339.99 17863340.18 0.0089 0.0040

Neptune 44196-04-20 15:36 G 17863428.00 17863428.15 17863428.32 0.0089 0.0051

Neptune 44196-07-17 19:26 G 17863516.17 17863516.31 17863516.46 0.0089 0.0062

Neptune 44196-10-13 22:48 G 17863604.36 17863604.45 17863604.58 0.0089 0.0074

Neptune 44197-01-10 02:38 G 17863692.57 17863692.61 17863692.68 0.0089 0.0085

Jupiter 44197-05-17 05:31 G 17863819.67 17863819.73 17863819.80 0.0518 0.0446

Jupiter 44197-08-14 09:22 G 17863908.77 17863908.89 17863909.01 0.0516 0.0145

Moon 44198-03-20 05:17 G 17864126.56 17864126.72 17864126.88 0.2683 0.0562

Earth 44198-03-20 06:14 G 17864126.60 17864126.76 17864126.93 0.2677 0.0330 *

Mars 44199-06-06 02:24 G 17864569.56 17864569.60 17864569.64 0.1597 0.1535

Moon 44201-09-17 07:55 G 17865402.72 17865402.83 17865402.93 0.2652 0.0589

Earth 44201-09-17 08:24 G 17865402.75 17865402.85 17865402.96 0.2655 0.0526 *

Jupiter 44203-10-07 17:31 G 17866153.06 17866153.23 17866153.40 0.0509 0.0213

Saturn 44207-02-20 17:46 G 17867385.07 17867385.24 17867385.43 0.0269 0.0111

Saturn 44207-05-20 16:48 G 17867474.02 17867474.20 17867474.38 0.0270 0.0083

Mars 44208-10-27 03:50 G 17867999.49 17867999.66 17867999.83 0.1599 0.0139

Jupiter 44209-06-03 13:55 G 17868218.95 17868219.08 17868219.20 0.0517 0.0016

Pluto 44214-06-20 03:36 G 17870061.62 17870061.65 17870061.72 0.0068 0.0063

Pluto 44214-09-16 04:34 G 17870149.61 17870149.69 17870149.77 0.0068 0.0052

Moon 44214-09-20 00:58 G 17870153.43 17870153.54 17870153.64 0.2658 0.0582

Earth 44214-09-20 01:26 G 17870153.46 17870153.56 17870153.66 0.2654 0.0697 *

Pluto 44214-12-13 04:48 G 17870237.61 17870237.70 17870237.82 0.0068 0.0043

Pluto 44215-03-11 05:17 G 17870325.62 17870325.72 17870325.85 0.0068 0.0033

Pluto 44215-06-07 06:00 G 17870413.63 17870413.75 17870413.88 0.0069 0.0022

Mars 44215-06-12 03:50 G 17870418.60 17870418.66 17870418.72 0.1936 0.1594

Jupiter 44215-07-26 12:58 G 17870462.85 17870463.04 17870463.23 0.0508 0.0017

Pluto 44215-09-03 06:43 G 17870501.65 17870501.78 17870501.91 0.0069 0.0011

Pluto 44215-11-30 07:12 G 17870589.67 17870589.80 17870589.94 0.0069 0.0002

Pluto 44216-02-26 07:41 G 17870677.69 17870677.82 17870677.96 0.0069 0.0010

Pluto 44216-05-24 08:10 G 17870765.72 17870765.84 17870765.98 0.0069 0.0021

Pluto 44216-08-20 08:53 G 17870853.75 17870853.87 17870853.99 0.0069 0.0031

Pluto 44216-11-16 09:07 G 17870941.79 17870941.88 17870942.00 0.0069 0.0043

Pluto 44217-02-12 09:36 G 17871029.83 17871029.90 17871030.00 0.0069 0.0053

Pluto 44217-05-11 10:19 G 17871117.89 17871117.93 17871117.99 0.0069 0.0064

Mars 44218-03-19 05:17 G 17871429.62 17871429.72 17871429.82 0.1600 0.1265

Venus 44219-09-06 10:48 G 17871965.80 17871965.95 17871966.10 0.3681 0.1160

Saturn 44220-04-05 00:14 G 17872177.51 17872177.51 17872177.53 0.0295 0.0293

Saturn 44220-07-02 12:00 G 17872265.89 17872266.00 17872266.12 0.0293 0.0129

Saturn 44220-09-28 23:31 G 17872354.36 17872354.48 17872354.61 0.0292 0.0035

Saturn 44220-12-26 11:02 G 17872442.87 17872442.96 17872443.06 0.0291 0.0194

Jupiter 44221-03-22 18:43 G 17872529.16 17872529.28 17872529.40 0.0518 0.0154

Jupiter 44221-06-19 22:34 G 17872618.37 17872618.44 17872618.50 0.0516 0.0434

Mars 44224-11-01 12:14 G 17873848.90 17873849.01 17873849.12 0.1934 0.0144

Uranus 44225-10-19 18:29 G 17874201.27 17874201.27 17874201.28 0.0141 0.0141

Uranus 44226-01-15 21:50 G 17874289.35 17874289.41 17874289.48 0.0141 0.0121

Uranus 44226-04-14 01:12 G 17874377.46 17874377.55 17874377.64 0.0141 0.0100

Uranus 44226-07-11 04:34 G 17874465.59 17874465.69 17874465.80 0.0142 0.0079

Uranus 44226-10-07 07:55 G 17874553.71 17874553.83 17874553.95 0.0142 0.0058

Uranus 44227-01-03 11:17 G 17874641.85 17874641.97 17874642.10 0.0142 0.0037

Uranus 44227-04-01 14:38 G 17874729.98 17874730.11 17874730.24 0.0142 0.0016

Jupiter 44227-05-14 07:12 G 17874772.64 17874772.80 17874772.97 0.0508 0.0252

Uranus 44227-06-28 18:00 G 17874818.12 17874818.25 17874818.38 0.0142 0.0006

Moon 44227-09-22 18:14 G 17874904.18 17874904.26 17874904.33 0.2659 0.1942

Earth 44227-09-22 18:29 G 17874904.19 17874904.27 17874904.34 0.2653 0.1913 *

Uranus 44227-09-24 21:22 G 17874906.26 17874906.39 17874906.52 0.0142 0.0027

Uranus 44227-12-22 00:43 G 17874994.41 17874994.53 17874994.66 0.0142 0.0048

Uranus 44228-03-19 04:05 G 17875082.56 17875082.67 17875082.79 0.0142 0.0070

Uranus 44228-06-15 07:26 G 17875170.72 17875170.81 17875170.92 0.0142 0.0091

Uranus 44228-09-11 11:02 G 17875258.88 17875258.96 17875259.04 0.0142 0.0113

Uranus 44228-12-08 14:24 G 17875347.06 17875347.10 17875347.14 0.0142 0.0134

Jupiter 44233-01-08 23:31 G 17876839.38 17876839.48 17876839.58 0.0519 0.0300

Jupiter 44233-04-08 03:22 G 17876928.53 17876928.64 17876928.74 0.0517 0.0291

Venus 44233-07-07 05:31 G 17877018.70 17877018.73 17877018.77 0.3690 0.3407

Mars 44234-03-24 20:38 G 17877279.28 17877279.36 17877279.44 0.1932 0.1321

Moon 44234-09-15 19:41 G 17877454.24 17877454.32 17877454.41 0.2650 0.1593

Earth 44234-09-15 20:10 G 17877454.25 17877454.34 17877454.43 0.2655 0.1509 *

Saturn 44236-07-09 18:14 G 17878117.11 17878117.26 17878117.43 0.0269 0.0150

Saturn 44236-10-06 17:17 G 17878206.03 17878206.22 17878206.41 0.0270 0.0043

Saturn 44237-01-03 16:05 G 17878295.08 17878295.17 17878295.27 0.0271 0.0238

Venus 44239-01-20 20:53 G 17879042.28 17879042.37 17879042.46 0.3690 0.1310

Jupiter 44239-03-02 02:53 G 17879082.56 17879082.62 17879082.69 0.0507 0.0473

Jupiter 44239-05-31 17:46 G 17879173.13 17879173.24 17879173.35 0.0509 0.0410

Moon 44244-03-21 12:43 G 17880928.87 17880929.03 17880929.19 0.2684 0.0261

Earth 44244-03-21 13:26 G 17880928.89 17880929.06 17880929.22 0.2678 0.0256 *

Venus 44244-08-05 12:14 G 17881065.91 17881066.01 17881066.10 0.3689 0.0802

Jupiter 44244-10-28 03:50 G 17881149.60 17881149.66 17881149.71 0.0519 0.0456

Jupiter 44245-01-25 07:41 G 17881238.70 17881238.82 17881238.94 0.0517 0.0136

Moon 44247-09-18 12:29 G 17882204.92 17882205.02 17882205.13 0.2653 0.0390

Earth 44247-09-18 13:12 G 17882204.94 17882205.05 17882205.16 0.2654 0.0285 *

Mars 44248-04-27 04:34 G 17882426.52 17882426.69 17882426.85 0.1599 0.0358

Saturn 44249-11-19 15:22 G 17882998.03 17882998.14 17882998.25 0.0294 0.0163

Saturn 44250-02-16 02:53 G 17883086.49 17883086.62 17883086.75 0.0293 0.0003

Venus 44250-02-19 03:36 G 17883089.59 17883089.65 17883089.71 0.3689 0.2929

Saturn 44250-05-15 14:24 G 17883174.99 17883175.10 17883175.21 0.0292 0.0160

Jupiter 44251-03-19 13:55 G 17883482.91 17883483.08 17883483.26 0.0509 0.0194

Mars 44254-12-11 03:50 G 17884845.62 17884845.66 17884845.70 0.1935 0.1762

Jupiter 44256-11-13 12:14 G 17885548.88 17885549.01 17885549.13 0.0517 0.0023

Mars 44257-09-17 06:00 G 17885856.62 17885856.75 17885856.87 0.1600 0.1048

Moon 44260-09-20 05:31 G 17886955.63 17886955.73 17886955.83 0.2658 0.0913

Earth 44260-09-20 06:14 G 17886955.66 17886955.76 17886955.86 0.2654 0.0943 *

Jupiter 44263-01-05 09:50 G 17887792.72 17887792.91 17887793.10 0.0508 0.0027

Mars 44264-05-02 12:00 G 17888275.89 17888276.00 17888276.12 0.1934 0.0292

Saturn 44265-11-26 18:29 G 17888849.14 17888849.27 17888849.41 0.0269 0.0192

Saturn 44266-02-23 17:17 G 17888938.03 17888938.22 17888938.42 0.0270 0.0007

Saturn 44266-05-23 16:19 G 17889027.05 17889027.18 17889027.31 0.0271 0.0194

Uranus 44266-08-18 20:24 G 17889114.24 17889114.35 17889114.47 0.0137 0.0110

Uranus 44266-11-15 03:50 G 17889202.52 17889202.66 17889202.83 0.0137 0.0082

Uranus 44267-02-11 12:00 G 17889290.82 17889291.00 17889291.18 0.0136 0.0053

Uranus 44267-05-10 19:41 G 17889379.13 17889379.32 17889379.52 0.0136 0.0024

Uranus 44267-08-07 03:36 G 17889467.45 17889467.65 17889467.84 0.0136 0.0005

Moon 44267-09-14 07:55 G 17889505.80 17889505.83 17889505.86 0.2649 0.2528

Earth 44267-09-14 07:55 G 17889505.80 17889505.83 17889505.86 0.2656 0.2494 *

Uranus 44267-11-03 11:17 G 17889555.78 17889555.97 17889556.16 0.0136 0.0033

Uranus 44268-01-30 18:43 G 17889644.11 17889644.28 17889644.46 0.0136 0.0061

Uranus 44268-04-28 02:10 G 17889732.46 17889732.59 17889732.75 0.0136 0.0089

Uranus 44268-07-25 09:50 G 17889820.82 17889820.91 17889821.02 0.0136 0.0117

Jupiter 44268-09-01 16:34 G 17889859.07 17889859.19 17889859.30 0.0518 0.0170

Jupiter 44268-11-29 20:10 G 17889948.27 17889948.34 17889948.42 0.0516 0.0419

Mars 44273-09-22 20:38 G 17891706.27 17891706.36 17891706.45 0.1932 0.1141

Moon 44273-09-22 23:02 G 17891706.40 17891706.46 17891706.52 0.2659 0.2104 *

Earth 44273-09-22 23:02 G 17891706.40 17891706.46 17891706.52 0.2653 0.2154 *

Neptune 44273-09-23 05:17 G 17891706.69 17891706.72 17891706.75 0.0089 0.0086

Neptune 44273-12-20 06:14 G 17891794.71 17891794.76 17891794.83 0.0089 0.0079

Neptune 44274-03-18 07:41 G 17891882.75 17891882.82 17891882.90 0.0089 0.0071

Neptune 44274-06-14 08:53 G 17891970.79 17891970.87 17891970.97 0.0089 0.0064

Neptune 44274-09-10 10:05 G 17892058.83 17892058.92 17892059.03 0.0089 0.0056

Jupiter 44274-10-24 05:17 G 17892102.56 17892102.72 17892102.88 0.0508 0.0252

Neptune 44274-12-07 11:17 G 17892146.87 17892146.97 17892147.09 0.0089 0.0049

Neptune 44275-03-05 12:43 G 17892234.92 17892235.03 17892235.15 0.0089 0.0041

Neptune 44275-06-01 13:55 G 17892322.96 17892323.08 17892323.20 0.0089 0.0034

Neptune 44275-08-28 15:22 G 17892411.01 17892411.14 17892411.26 0.0089 0.0026

Neptune 44275-11-24 16:19 G 17892499.06 17892499.18 17892499.32 0.0089 0.0019

Neptune 44276-02-20 17:46 G 17892587.11 17892587.24 17892587.37 0.0089 0.0011

Venus 44276-04-12 13:12 G 17892639.02 17892639.05 17892639.08 0.3681 0.3596

Neptune 44276-05-18 18:58 G 17892675.16 17892675.29 17892675.42 0.0089 0.0004

Neptune 44276-08-14 20:24 G 17892763.21 17892763.35 17892763.48 0.0089 0.0005

Neptune 44276-11-10 21:36 G 17892851.27 17892851.40 17892851.53 0.0089 0.0012

Neptune 44277-02-06 22:48 G 17892939.32 17892939.45 17892939.58 0.0089 0.0019

Moon 44277-03-19 08:24 G 17892979.81 17892979.85 17892979.90 0.2680 0.2558

Earth 44277-03-19 10:05 G 17892979.85 17892979.92 17892980.00 0.2677 0.2359 *

Neptune 44277-05-06 00:00 G 17893027.38 17893027.50 17893027.63 0.0089 0.0027

Neptune 44277-08-02 01:12 G 17893115.44 17893115.55 17893115.68 0.0089 0.0035

Neptune 44277-10-29 02:38 G 17893203.49 17893203.61 17893203.72 0.0089 0.0042

Neptune 44278-01-25 03:36 G 17893291.55 17893291.65 17893291.77 0.0089 0.0050

Neptune 44278-04-23 04:48 G 17893379.61 17893379.70 17893379.81 0.0089 0.0058

Neptune 44278-07-20 06:14 G 17893467.68 17893467.76 17893467.85 0.0089 0.0065

Neptune 44278-10-16 07:26 G 17893555.75 17893555.81 17893555.89 0.0089 0.0072

Neptune 44279-01-12 08:53 G 17893643.82 17893643.87 17893643.93 0.0089 0.0080

Saturn 44279-04-08 18:43 G 17893730.18 17893730.28 17893730.37 0.0294 0.0197

Neptune 44279-04-10 09:50 G 17893731.91 17893731.91 17893731.94 0.0089 0.0088

Saturn 44279-07-06 06:14 G 17893818.63 17893818.76 17893818.89 0.0293 0.0034

Saturn 44279-10-02 17:46 G 17893907.12 17893907.24 17893907.35 0.0292 0.0127

Saturn 44279-12-30 05:02 G 17893995.70 17893995.71 17893995.74 0.0291 0.0285

Jupiter 44280-06-20 21:07 G 17894169.28 17894169.38 17894169.48 0.0518 0.0317

Moon 44280-09-16 00:29 G 17894256.42 17894256.52 17894256.61 0.2650 0.1297

Earth 44280-09-16 00:58 G 17894256.44 17894256.54 17894256.63 0.2655 0.1268 *

Jupiter 44280-09-18 00:58 G 17894258.44 17894258.54 17894258.65 0.0517 0.0275

Jupiter 44286-08-12 00:00 G 17896412.45 17896412.50 17896412.55 0.0507 0.0486

Jupiter 44286-11-10 14:38 G 17896502.99 17896503.11 17896503.23 0.0509 0.0394

Mars 44287-10-27 05:17 G 17896853.56 17896853.72 17896853.88 0.1599 0.0588

Venus 44290-02-11 02:53 G 17897691.55 17897691.62 17897691.69 0.3690 0.2653

Moon 44290-03-22 20:10 G 17897731.18 17897731.34 17897731.49 0.2685 0.0734

Earth 44290-03-22 20:24 G 17897731.20 17897731.35 17897731.51 0.2678 0.0838 *

Jupiter 44292-04-09 01:55 G 17898479.53 17898479.58 17898479.63 0.0519 0.0463

Jupiter 44292-07-07 05:46 G 17898568.62 17898568.74 17898568.87 0.0517 0.0130

Moon 44293-09-18 17:17 G 17899007.11 17899007.22 17899007.33 0.2655 0.0142

Earth 44293-09-18 18:00 G 17899007.14 17899007.25 17899007.35 0.2654 0.0120 *

Mars 44294-06-11 03:50 G 17899272.65 17899272.66 17899272.67 0.1935 0.1920

Saturn 44295-04-15 18:58 G 17899581.19 17899581.29 17899581.38 0.0269 0.0234

Saturn 44295-07-13 17:31 G 17899670.04 17899670.23 17899670.43 0.0270 0.0043

Venus 44295-08-27 18:14 G 17899715.16 17899715.26 17899715.36 0.3689 0.0560

Saturn 44295-10-10 16:19 G 17899759.03 17899759.18 17899759.35 0.0271 0.0152

Mars 44297-03-18 06:43 G 17900283.63 17900283.78 17900283.92 0.1600 0.0825

Jupiter 44298-08-29 10:19 G 17900812.76 17900812.93 17900813.11 0.0508 0.0173

Pluto 44301-01-15 06:43 G 17901681.69 17901681.78 17901681.89 0.0075 0.0065

Venus 44301-03-13 09:36 G 17901738.80 17901738.90 17901738.99 0.3689 0.1567

Pluto 44301-04-13 09:07 G 17901769.74 17901769.88 17901770.05 0.0075 0.0045

Pluto 44301-07-10 11:46 G 17901857.81 17901857.99 17901858.18 0.0075 0.0024

Pluto 44301-10-06 14:24 G 17901945.91 17901946.10 17901946.30 0.0075 0.0004

Pluto 44302-01-02 16:48 G 17902034.02 17902034.20 17902034.40 0.0075 0.0016

Pluto 44302-03-31 19:12 G 17902122.14 17902122.30 17902122.48 0.0075 0.0036

Pluto 44302-06-27 21:22 G 17902210.28 17902210.39 17902210.54 0.0075 0.0056

Mars 44303-11-02 12:14 G 17902702.90 17902703.01 17902703.12 0.1934 0.0475

Jupiter 44304-04-26 10:19 G 17902878.80 17902878.93 17902879.05 0.0517 0.0029

Moon 44306-09-22 10:19 G 17903757.84 17903757.93 17903758.03 0.2658 0.1087

Earth 44306-09-22 10:48 G 17903757.86 17903757.95 17903758.05 0.2653 0.1179 *

Saturn 44308-08-26 21:50 G 17904462.33 17904462.41 17904462.49 0.0295 0.0232

Saturn 44308-11-23 09:22 G 17904550.77 17904550.89 17904551.02 0.0293 0.0069

Saturn 44309-02-19 20:53 G 17904639.25 17904639.37 17904639.50 0.0292 0.0093

Saturn 44309-05-19 08:24 G 17904727.79 17904727.85 17904727.91 0.0291 0.0252

Uranus 44309-11-10 01:55 G 17904902.55 17904902.58 17904902.62 0.0141 0.0135

Uranus 44310-02-06 05:17 G 17904990.65 17904990.72 17904990.80 0.0141 0.0115

Uranus 44310-05-05 08:38 G 17905078.77 17905078.86 17905078.96 0.0142 0.0094

Jupiter 44310-06-18 06:29 G 17905122.58 17905122.77 17905122.96 0.0508 0.0046

Uranus 44310-08-01 12:00 G 17905166.89 17905167.00 17905167.11 0.0142 0.0073

Uranus 44310-10-28 15:22 G 17905255.02 17905255.14 17905255.26 0.0142 0.0052

Uranus 44311-01-24 18:43 G 17905343.15 17905343.28 17905343.41 0.0142 0.0031

Uranus 44311-04-22 22:05 G 17905431.29 17905431.42 17905431.55 0.0142 0.0010

Uranus 44311-07-20 01:26 G 17905519.43 17905519.56 17905519.69 0.0142 0.0012

Uranus 44311-10-16 04:48 G 17905607.58 17905607.70 17905607.83 0.0142 0.0033

Uranus 44312-01-12 08:10 G 17905695.72 17905695.84 17905695.97 0.0142 0.0055

Uranus 44312-04-09 11:31 G 17905783.88 17905783.98 17905784.10 0.0142 0.0076

Uranus 44312-07-06 15:07 G 17905872.03 17905872.13 17905872.22 0.0142 0.0097

Uranus 44312-10-02 18:14 G 17905960.20 17905960.26 17905960.34 0.0142 0.0120

Uranus 44312-12-29 21:50 G 17906048.40 17906048.41 17906048.43 0.0142 0.0141

Mars 44313-03-24 20:24 G 17906133.26 17906133.35 17906133.45 0.1931 0.0996

Moon 44313-09-15 12:29 G 17906307.96 17906308.02 17906308.08 0.2650 0.2210

Earth 44313-09-15 12:43 G 17906307.97 17906308.03 17906308.08 0.2656 0.2251 *

Jupiter 44316-02-13 14:53 G 17907189.00 17907189.12 17907189.24 0.0518 0.0175

Jupiter 44316-05-12 18:29 G 17907278.20 17907278.27 17907278.35 0.0516 0.0414

Earth 44319-09-25 03:50 G 17908508.61 17908508.66 17908508.70 0.2653 0.2393

Moon 44319-09-25 03:50 G 17908508.62 17908508.66 17908508.70 0.2659 0.2452 *

Jupiter 44322-04-06 02:24 G 17909432.44 17909432.60 17909432.76 0.0508 0.0264

Moon 44323-03-21 15:50 G 17909782.05 17909782.16 17909782.28 0.2681 0.1903

Earth 44323-03-21 17:17 G 17909782.10 17909782.22 17909782.34 0.2677 0.1777 *

Saturn 44324-11-30 17:02 G 17910402.03 17910402.21 17910402.40 0.0269 0.0090

Saturn 44325-02-27 16:05 G 17910490.99 17910491.17 17910491.35 0.0270 0.0104

Moon 44326-09-18 05:02 G 17911058.62 17911058.71 17911058.81 0.2650 0.1140

Earth 44326-09-18 05:31 G 17911058.63 17911058.73 17911058.83 0.2655 0.1027 *

Mars 44327-04-28 06:00 G 17911280.60 17911280.75 17911280.90 0.1599 0.0809

Venus 44327-05-05 05:31 G 17911287.58 17911287.73 17911287.87 0.3681 0.1413

Jupiter 44327-12-02 19:12 G 17911499.20 17911499.30 17911499.39 0.0518 0.0329

Jupiter 44328-02-29 23:02 G 17911588.35 17911588.46 17911588.57 0.0516 0.0261

Jupiter 44334-01-22 21:50 G 17913742.37 17913742.41 17913742.47 0.0507 0.0486

Jupiter 44334-04-23 12:43 G 17913832.91 17913833.03 17913833.15 0.0509 0.0396

Moon 44336-03-24 03:07 G 17914533.50 17914533.63 17914533.77 0.2685 0.1416

Earth 44336-03-24 03:36 G 17914533.51 17914533.65 17914533.79 0.2678 0.1416 *

Mars 44336-09-17 07:26 G 17914710.65 17914710.81 17914710.97 0.1600 0.0592

Saturn 44338-01-14 00:58 G 17915194.49 17915194.54 17915194.59 0.0295 0.0268

Saturn 44338-04-12 12:29 G 17915282.91 17915283.02 17915283.14 0.0293 0.0105

Saturn 44338-07-10 00:14 G 17915371.38 17915371.51 17915371.63 0.0292 0.0058

Saturn 44338-10-06 11:31 G 17915459.90 17915459.98 17915460.07 0.0291 0.0218

Moon 44339-09-20 22:05 G 17915809.31 17915809.42 17915809.52 0.2656 0.0182

Earth 44339-09-20 22:34 G 17915809.34 17915809.44 17915809.55 0.2654 0.0203 *

Jupiter 44339-09-20 23:46 G 17915809.45 17915809.49 17915809.54 0.0519 0.0478 *

Jupiter 44339-12-19 03:50 G 17915898.53 17915898.66 17915898.78 0.0517 0.0116

Mars 44343-05-03 12:00 G 17917129.90 17917130.00 17917130.11 0.1934 0.0637

Jupiter 44346-02-09 07:41 G 17918142.64 17918142.82 17918143.00 0.0508 0.0162

Venus 44346-09-19 00:14 G 17918364.43 17918364.51 17918364.60 0.3690 0.1890

Uranus 44350-06-12 19:41 G 17919727.28 17919727.32 17919727.39 0.0137 0.0131

Uranus 44350-09-09 03:50 G 17919815.53 17919815.66 17919815.79 0.0137 0.0102

Uranus 44350-12-06 11:17 G 17919903.82 17919903.97 17919904.15 0.0137 0.0074

Uranus 44351-03-04 19:26 G 17919992.12 17919992.31 17919992.49 0.0136 0.0045

Uranus 44351-06-01 03:07 G 17920080.43 17920080.63 17920080.82 0.0136 0.0016

Uranus 44351-08-28 10:48 G 17920168.76 17920168.95 17920169.15 0.0136 0.0012

Jupiter 44351-10-07 08:38 G 17920208.73 17920208.86 17920208.98 0.0518 0.0034

Uranus 44351-11-24 18:29 G 17920257.09 17920257.27 17920257.46 0.0136 0.0040

Uranus 44352-02-21 02:10 G 17920345.42 17920345.59 17920345.76 0.0136 0.0069

Venus 44352-04-03 15:36 G 17920388.05 17920388.15 17920388.25 0.3689 0.0226

Uranus 44352-05-19 09:50 G 17920433.77 17920433.91 17920434.05 0.0136 0.0096

Uranus 44352-08-15 17:17 G 17920522.15 17920522.22 17920522.30 0.0136 0.0124

Moon 44352-09-22 15:07 G 17920560.04 17920560.13 17920560.22 0.2658 0.1376

Earth 44352-09-22 15:36 G 17920560.06 17920560.15 17920560.24 0.2653 0.1417 *

Mars 44352-09-22 20:24 G 17920560.25 17920560.35 17920560.45 0.1931 0.0826

Saturn 44354-04-19 17:02 G 17921134.04 17921134.21 17921134.38 0.0269 0.0135

Saturn 44354-07-17 15:50 G 17921222.97 17921223.16 17921223.35 0.0270 0.0059

Saturn 44354-10-14 14:38 G 17921312.05 17921312.11 17921312.18 0.0271 0.0254

Venus 44357-10-18 06:58 G 17922411.71 17922411.79 17922411.86 0.3689 0.2348

Jupiter 44357-11-28 03:22 G 17922452.45 17922452.64 17922452.83 0.0508 0.0059

Neptune 44358-02-24 16:48 G 17922541.14 17922541.20 17922541.29 0.0089 0.0082

Neptune 44358-05-23 20:24 G 17922629.25 17922629.35 17922629.49 0.0089 0.0071

Neptune 44358-08-20 00:29 G 17922717.38 17922717.52 17922717.67 0.0089 0.0059

Neptune 44358-11-16 04:05 G 17922805.52 17922805.67 17922805.85 0.0089 0.0048

Neptune 44359-02-12 08:10 G 17922893.66 17922893.84 17922894.02 0.0089 0.0036

Neptune 44359-05-11 11:46 G 17922981.81 17922981.99 17922982.19 0.0089 0.0025

Neptune 44359-08-07 15:36 G 17923069.96 17923070.15 17923070.35 0.0089 0.0013

Moon 44359-09-16 17:02 G 17923110.15 17923110.21 17923110.28 0.2649 0.2092

Earth 44359-09-16 17:17 G 17923110.15 17923110.22 17923110.29 0.2656 0.2007 *

Neptune 44359-11-03 19:26 G 17923158.11 17923158.31 17923158.51 0.0089 0.0002

Neptune 44360-01-30 23:17 G 17923246.27 17923246.47 17923246.67 0.0089 0.0010

Neptune 44360-04-28 02:53 G 17923334.43 17923334.62 17923334.82 0.0089 0.0021

Neptune 44360-07-25 06:29 G 17923422.60 17923422.77 17923422.97 0.0089 0.0033

Neptune 44360-10-21 10:19 G 17923510.77 17923510.93 17923511.11 0.0089 0.0044

Neptune 44361-01-17 13:55 G 17923598.94 17923599.08 17923599.25 0.0089 0.0056

Neptune 44361-04-15 17:46 G 17923687.12 17923687.24 17923687.38 0.0089 0.0067

Neptune 44361-07-12 21:36 G 17923775.32 17923775.40 17923775.50 0.0089 0.0078

Jupiter 44363-07-26 12:58 G 17924518.93 17924519.04 17924519.16 0.0518 0.0183

Jupiter 44363-10-23 16:48 G 17924608.12 17924608.20 17924608.28 0.0516 0.0405

Earth 44365-09-25 08:24 G 17925310.84 17925310.85 17925310.86 0.2653 0.2631

Moon 44365-09-25 08:38 G 17925310.85 17925310.86 17925310.87 0.2660 0.2633 *

Mars 44366-10-27 06:43 G 17925707.65 17925707.78 17925707.91 0.1599 0.1031

Saturn 44367-08-30 15:36 G 17926015.04 17926015.15 17926015.26 0.0294 0.0141

Saturn 44367-11-27 03:07 G 17926103.51 17926103.63 17926103.76 0.0293 0.0024

Saturn 44368-02-23 14:38 G 17926192.01 17926192.11 17926192.21 0.0292 0.0182

Moon 44369-03-21 23:17 G 17926584.33 17926584.47 17926584.61 0.2683 0.1409

Earth 44369-03-22 00:14 G 17926584.36 17926584.51 17926584.66 0.2677 0.1202 *

Jupiter 44369-09-15 23:17 G 17926762.31 17926762.47 17926762.63 0.0508 0.0279

Moon 44372-09-18 09:50 G 17927860.80 17927860.91 17927861.01 0.2652 0.0807

Earth 44372-09-18 10:19 G 17927860.83 17927860.93 17927861.03 0.2655 0.0782 *

Jupiter 44375-05-14 17:46 G 17928829.14 17928829.24 17928829.33 0.0518 0.0331

Jupiter 44375-08-11 21:22 G 17928918.29 17928918.39 17928918.50 0.0516 0.0259

Mars 44376-03-18 08:10 G 17929137.67 17929137.84 17929138.00 0.1600 0.0379

Jupiter 44381-07-04 19:12 G 17931072.27 17931072.30 17931072.34 0.0507 0.0495

Jupiter 44381-10-03 10:05 G 17931162.80 17931162.92 17931163.04 0.0509 0.0389

Moon 44382-03-25 10:34 G 17931335.83 17931335.94 17931336.05 0.2685 0.1985

Earth 44382-03-25 10:34 G 17931335.83 17931335.94 17931336.05 0.2678 0.1998 *

Mars 44382-11-01 12:00 G 17931556.90 17931557.00 17931557.10 0.1934 0.0789

Saturn 44383-09-06 15:50 G 17931866.03 17931866.16 17931866.31 0.0269 0.0185

Saturn 44383-12-04 14:53 G 17931954.93 17931955.12 17931955.31 0.0270 0.0008

Venus 44383-12-10 07:55 G 17931960.68 17931960.83 17931960.98 0.3681 0.1068

Saturn 44384-03-02 13:41 G 17932043.95 17932044.07 17932044.20 0.0271 0.0202

Moon 44385-09-21 02:38 G 17932611.51 17932611.61 17932611.72 0.2656 0.0312

Earth 44385-09-21 03:22 G 17932611.53 17932611.64 17932611.74 0.2654 0.0443 *

Jupiter 44387-03-02 22:05 G 17933139.38 17933139.42 17933139.46 0.0519 0.0486

Jupiter 44387-05-31 01:55 G 17933228.46 17933228.58 17933228.70 0.0517 0.0106

Mars 44392-03-23 20:24 G 17934987.25 17934987.35 17934987.46 0.1931 0.0651

Jupiter 44393-07-22 05:46 G 17935472.57 17935472.74 17935472.92 0.0509 0.0167

Uranus 44393-11-30 09:07 G 17935603.84 17935603.88 17935603.94 0.0141 0.0131

Uranus 44394-02-26 12:29 G 17935691.95 17935692.02 17935692.11 0.0142 0.0110

Uranus 44394-05-25 15:50 G 17935780.06 17935780.16 17935780.27 0.0142 0.0089

Uranus 44394-08-21 19:12 G 17935868.19 17935868.30 17935868.42 0.0142 0.0068

Uranus 44394-11-17 22:34 G 17935956.32 17935956.44 17935956.57 0.0142 0.0047

Uranus 44395-02-14 01:55 G 17936044.46 17936044.58 17936044.71 0.0142 0.0026

Uranus 44395-05-13 05:17 G 17936132.59 17936132.72 17936132.86 0.0142 0.0007

Uranus 44395-08-09 08:38 G 17936220.74 17936220.86 17936221.00 0.0142 0.0018

Uranus 44395-11-05 12:14 G 17936308.88 17936309.01 17936309.13 0.0142 0.0039

Uranus 44396-02-01 15:22 G 17936397.03 17936397.14 17936397.27 0.0142 0.0061

Uranus 44396-04-29 18:58 G 17936485.19 17936485.29 17936485.40 0.0142 0.0082

Uranus 44396-07-26 22:19 G 17936573.35 17936573.43 17936573.52 0.0142 0.0103

Uranus 44396-10-23 01:55 G 17936661.52 17936661.58 17936661.64 0.0143 0.0125

Saturn 44397-01-16 18:14 G 17936747.17 17936747.26 17936747.37 0.0294 0.0183

Saturn 44397-04-15 06:00 G 17936835.62 17936835.75 17936835.88 0.0293 0.0019

Saturn 44397-07-12 17:31 G 17936924.12 17936924.23 17936924.34 0.0292 0.0142

Venus 44397-10-10 06:14 G 17937013.72 17937013.76 17937013.81 0.3690 0.3226

Moon 44398-09-23 19:55 G 17937362.25 17937362.33 17937362.42 0.2659 0.1647

Earth 44398-09-23 20:10 G 17937362.26 17937362.34 17937362.43 0.2653 0.1656 *

Jupiter 44399-03-19 06:43 G 17937538.65 17937538.78 17937538.90 0.0518 0.0043

Venus 44403-04-25 21:36 G 17939037.31 17939037.40 17939037.50 0.3690 0.1126

Jupiter 44405-05-10 00:58 G 17939782.35 17939782.54 17939782.73 0.0508 0.0063

Moon 44405-09-16 21:50 G 17939912.33 17939912.41 17939912.49 0.2649 0.1754

Earth 44405-09-16 22:05 G 17939912.34 17939912.42 17939912.50 0.2656 0.1765 *

Mars 44406-04-27 07:26 G 17940134.71 17940134.81 17940134.92 0.1599 0.1257

Venus 44408-11-08 12:58 G 17941060.94 17941061.04 17941061.14 0.3689 0.0988

Jupiter 44411-01-05 11:17 G 17941848.86 17941848.97 17941849.09 0.0518 0.0188

Jupiter 44411-04-04 15:07 G 17941938.06 17941938.13 17941938.21 0.0516 0.0404

Saturn 44413-01-23 15:07 G 17942598.04 17942598.13 17942598.22 0.0269 0.0236

Saturn 44413-04-22 13:55 G 17942686.89 17942687.08 17942687.27 0.0269 0.0044

Saturn 44413-07-20 12:43 G 17942775.87 17942776.03 17942776.19 0.0270 0.0150

Venus 44414-05-25 04:19 G 17943084.63 17943084.68 17943084.73 0.3689 0.3131

Moon 44415-03-23 06:29 G 17943386.61 17943386.77 17943386.93 0.2684 0.0635

Earth 44415-03-23 07:26 G 17943386.65 17943386.81 17943386.97 0.2677 0.0626 *

Mars 44415-09-17 08:53 G 17943564.70 17943564.87 17943565.04 0.1600 0.0155

Jupiter 44417-02-25 20:53 G 17944092.21 17944092.37 17944092.52 0.0507 0.0283

Moon 44418-09-19 14:24 G 17944663.00 17944663.10 17944663.21 0.2654 0.0685

Earth 44418-09-19 15:07 G 17944663.02 17944663.13 17944663.23 0.2655 0.0542 *

Mars 44422-05-02 12:00 G 17945983.90 17945984.00 17945984.10 0.1934 0.0963

Jupiter 44422-10-24 16:05 G 17946159.07 17946159.17 17946159.26 0.0518 0.0337

Jupiter 44423-01-21 19:41 G 17946248.22 17946248.32 17946248.44 0.0516 0.0255

Mars 44425-02-06 10:05 G 17946994.89 17946994.92 17946994.96 0.1602 0.1568

Saturn 44426-06-05 21:07 G 17947479.30 17947479.38 17947479.47 0.0295 0.0223

Saturn 44426-09-02 08:53 G 17947567.74 17947567.87 17947567.99 0.0294 0.0059

Saturn 44426-11-29 20:24 G 17947656.23 17947656.35 17947656.47 0.0293 0.0103

Saturn 44427-02-26 07:41 G 17947744.77 17947744.82 17947744.88 0.0291 0.0264

Earth 44428-03-25 17:46 G 17948138.19 17948138.24 17948138.28 0.2678 0.2572

Moon 44428-03-25 18:00 G 17948138.21 17948138.25 17948138.29 0.2684 0.2581 *

Jupiter 44428-12-14 16:34 G 17948402.18 17948402.19 17948402.21 0.0508 0.0505

Jupiter 44429-03-15 07:26 G 17948492.69 17948492.81 17948492.93 0.0509 0.0380

Moon 44431-09-22 07:26 G 17949413.71 17949413.81 17949413.91 0.2657 0.0648

Earth 44431-09-22 08:10 G 17949413.73 17949413.84 17949413.94 0.2654 0.0690 *

Mars 44431-09-22 20:24 G 17949414.24 17949414.35 17949414.46 0.1931 0.0499

Uranus 44434-07-03 03:50 G 17950428.57 17950428.66 17950428.75 0.0137 0.0121

Jupiter 44434-08-12 20:38 G 17950469.32 17950469.36 17950469.41 0.0518 0.0483

Uranus 44434-09-29 11:17 G 17950516.84 17950516.97 17950517.13 0.0137 0.0093

Jupiter 44434-11-10 00:29 G 17950558.40 17950558.52 17950558.65 0.0517 0.0110

Uranus 44434-12-26 19:26 G 17950605.14 17950605.31 17950605.48 0.0136 0.0064

Uranus 44435-03-25 03:07 G 17950693.44 17950693.63 17950693.82 0.0136 0.0035

Uranus 44435-06-21 11:02 G 17950781.76 17950781.96 17950782.15 0.0136 0.0007

Uranus 44435-09-17 18:43 G 17950870.08 17950870.28 17950870.47 0.0136 0.0022

Uranus 44435-12-15 02:10 G 17950958.42 17950958.59 17950958.78 0.0136 0.0050

Uranus 44436-03-12 09:50 G 17951046.76 17951046.91 17951047.08 0.0136 0.0078

Uranus 44436-06-08 17:17 G 17951135.11 17951135.22 17951135.36 0.0136 0.0106

Uranus 44436-09-05 00:43 G 17951223.52 17951223.53 17951223.58 0.0136 0.0134

Neptune 44438-06-21 05:02 G 17951877.67 17951877.71 17951877.75 0.0089 0.0083

Neptune 44438-09-17 06:00 G 17951965.70 17951965.75 17951965.83 0.0089 0.0076

Neptune 44438-12-14 07:26 G 17952053.73 17952053.81 17952053.90 0.0089 0.0068

Neptune 44439-03-12 08:38 G 17952141.77 17952141.86 17952141.96 0.0089 0.0061

Neptune 44439-06-08 10:05 G 17952229.81 17952229.92 17952230.02 0.0089 0.0053

Neptune 44439-09-04 11:02 G 17952317.86 17952317.96 17952318.08 0.0089 0.0046

Neptune 44439-12-01 12:29 G 17952405.90 17952406.02 17952406.14 0.0089 0.0038

Neptune 44440-02-27 13:41 G 17952493.95 17952494.07 17952494.20 0.0089 0.0031

Neptune 44440-05-25 15:07 G 17952582.00 17952582.13 17952582.25 0.0089 0.0023

Venus 44440-07-16 10:19 G 17952633.89 17952633.93 17952633.97 0.3681 0.3523

Neptune 44440-08-21 16:19 G 17952670.05 17952670.18 17952670.31 0.0089 0.0015

Neptune 44440-11-17 17:31 G 17952758.10 17952758.23 17952758.36 0.0089 0.0008

Jupiter 44441-01-01 03:36 G 17952802.47 17952802.65 17952802.83 0.0509 0.0164

Neptune 44441-02-13 18:43 G 17952846.15 17952846.28 17952846.42 0.0089 0.0003

Neptune 44441-05-12 20:10 G 17952934.21 17952934.34 17952934.47 0.0089 0.0008

Neptune 44441-08-08 21:22 G 17953022.26 17953022.39 17953022.52 0.0089 0.0015

Neptune 44441-11-04 22:34 G 17953110.32 17953110.44 17953110.57 0.0089 0.0022

Neptune 44442-01-31 23:46 G 17953198.37 17953198.49 17953198.62 0.0089 0.0030

Neptune 44442-04-30 00:58 G 17953286.43 17953286.54 17953286.66 0.0089 0.0038

Neptune 44442-07-27 02:24 G 17953374.49 17953374.60 17953374.71 0.0089 0.0045

Saturn 44442-09-09 12:29 G 17953418.84 17953419.02 17953419.20 0.0269 0.0099

Neptune 44442-10-23 03:22 G 17953462.55 17953462.64 17953462.76 0.0089 0.0053

Saturn 44442-12-07 11:17 G 17953507.79 17953507.97 17953508.15 0.0270 0.0094

Neptune 44443-01-19 04:48 G 17953550.61 17953550.70 17953550.80 0.0089 0.0060

Neptune 44443-04-17 06:00 G 17953638.67 17953638.75 17953638.84 0.0089 0.0068

Neptune 44443-07-14 06:58 G 17953726.74 17953726.79 17953726.88 0.0089 0.0076

Neptune 44443-10-10 08:24 G 17953814.82 17953814.85 17953814.90 0.0089 0.0083

Moon 44444-09-24 00:43 G 17954164.46 17954164.53 17954164.61 0.2660 0.1852

Earth 44444-09-24 00:58 G 17954164.47 17954164.54 17954164.61 0.2653 0.1895 *

Mars 44445-10-26 08:10 G 17954561.78 17954561.84 17954561.90 0.1599 0.1480

Jupiter 44446-08-29 05:02 G 17954868.59 17954868.71 17954868.84 0.0517 0.0044

Moon 44451-09-18 02:24 G 17956714.52 17956714.60 17956714.69 0.2650 0.1605

Earth 44451-09-18 02:53 G 17956714.53 17956714.62 17956714.70 0.2656 0.1524 *

Jupiter 44452-10-19 23:31 G 17957112.29 17957112.48 17957112.67 0.0508 0.0055

Venus 44454-05-17 03:50 G 17957686.58 17957686.66 17957686.73 0.3690 0.2465

Mars 44455-03-18 09:36 G 17957991.73 17957991.90 17957992.07 0.1600 0.0087

Saturn 44455-10-23 23:17 G 17958211.43 17958211.47 17958211.52 0.0295 0.0271

Saturn 44456-01-20 11:02 G 17958299.84 17958299.96 17958300.08 0.0294 0.0106

Saturn 44456-04-17 22:34 G 17958388.32 17958388.44 17958388.57 0.0293 0.0058

Saturn 44456-07-15 10:05 G 17958476.84 17958476.92 17958477.01 0.0292 0.0217

Jupiter 44458-06-17 09:50 G 17959178.79 17959178.91 17959179.03 0.0518 0.0190

Jupiter 44458-09-14 13:41 G 17959267.99 17959268.07 17959268.15 0.0516 0.0399

Venus 44459-11-30 18:58 G 17959710.19 17959710.29 17959710.39 0.3689 0.0360

Moon 44461-03-23 13:41 G 17960188.90 17960189.07 17960189.23 0.2684 0.0271

Earth 44461-03-23 14:24 G 17960188.93 17960189.10 17960189.26 0.2677 0.0061 *

Mars 44461-10-31 12:00 G 17960410.91 17960411.00 17960411.09 0.1933 0.1136

Pluto 44463-01-09 11:02 G 17960845.91 17960845.96 17960846.04 0.0068 0.0059

Pluto 44463-04-07 11:31 G 17960933.90 17960933.98 17960934.09 0.0068 0.0049

Pluto 44463-07-04 12:14 G 17961021.91 17961022.01 17961022.13 0.0068 0.0039

Pluto 44463-09-30 12:43 G 17961109.92 17961110.03 17961110.16 0.0068 0.0029

Pluto 44463-12-27 13:26 G 17961197.93 17961198.06 17961198.19 0.0069 0.0018

Pluto 44464-03-24 13:55 G 17961285.95 17961286.08 17961286.22 0.0069 0.0008

Pluto 44464-06-20 14:38 G 17961373.97 17961374.11 17961374.24 0.0069 0.0003

Mars 44464-08-07 10:48 G 17961421.86 17961421.95 17961422.05 0.1602 0.1342

Jupiter 44464-08-07 18:58 G 17961422.14 17961422.29 17961422.45 0.0507 0.0280

Pluto 44464-09-16 15:07 G 17961462.00 17961462.13 17961462.26 0.0069 0.0014

Moon 44464-09-19 19:12 G 17961465.19 17961465.30 17961465.40 0.2655 0.0349

Earth 44464-09-19 19:41 G 17961465.22 17961465.32 17961465.43 0.2655 0.0317 *

Pluto 44464-12-13 15:22 G 17961550.03 17961550.14 17961550.28 0.0069 0.0025

Pluto 44465-03-11 16:05 G 17961638.06 17961638.17 17961638.29 0.0069 0.0035

Pluto 44465-06-07 16:34 G 17961726.10 17961726.19 17961726.30 0.0069 0.0046

Venus 44465-06-15 10:19 G 17961733.84 17961733.93 17961734.02 0.3689 0.1767

Pluto 44465-09-03 17:17 G 17961814.15 17961814.22 17961814.30 0.0069 0.0057

Pluto 44465-11-30 17:46 G 17961902.22 17961902.24 17961902.27 0.0069 0.0068

Jupiter 44470-04-05 14:38 G 17963489.01 17963489.11 17963489.20 0.0519 0.0337

Jupiter 44470-07-03 18:29 G 17963578.16 17963578.27 17963578.38 0.0517 0.0255

Mars 44471-03-23 20:24 G 17963841.24 17963841.35 17963841.46 0.1931 0.0332

Saturn 44472-01-27 10:48 G 17964150.80 17964150.95 17964151.12 0.0269 0.0155

Saturn 44472-04-25 09:50 G 17964239.72 17964239.91 17964240.10 0.0270 0.0038

Saturn 44472-07-23 08:24 G 17964328.76 17964328.85 17964328.96 0.0271 0.0232

Jupiter 44476-05-26 14:53 G 17965732.09 17965732.12 17965732.16 0.0507 0.0498

Jupiter 44476-08-25 05:46 G 17965822.62 17965822.74 17965822.86 0.0509 0.0384

Moon 44477-09-22 12:14 G 17966215.91 17966216.01 17966216.11 0.2657 0.0796

Earth 44477-09-22 12:43 G 17966215.93 17966216.03 17966216.13 0.2654 0.0919 *

Uranus 44477-12-20 16:19 G 17966305.13 17966305.18 17966305.24 0.0141 0.0126

Uranus 44478-03-18 19:41 G 17966393.24 17966393.32 17966393.41 0.0142 0.0105

Uranus 44478-06-14 23:02 G 17966481.36 17966481.46 17966481.57 0.0142 0.0084

Uranus 44478-09-11 02:24 G 17966569.49 17966569.60 17966569.72 0.0142 0.0063

Uranus 44478-12-08 05:46 G 17966657.62 17966657.74 17966657.87 0.0142 0.0042

Uranus 44479-03-06 09:07 G 17966745.75 17966745.88 17966746.01 0.0142 0.0021

Uranus 44479-06-02 12:29 G 17966833.89 17966834.02 17966834.15 0.0142 0.0003

Uranus 44479-08-29 15:50 G 17966922.03 17966922.16 17966922.29 0.0142 0.0022

Uranus 44479-11-25 19:12 G 17967010.18 17967010.30 17967010.43 0.0142 0.0044

Uranus 44480-02-21 22:34 G 17967098.33 17967098.44 17967098.56 0.0142 0.0065

Uranus 44480-05-20 02:10 G 17967186.49 17967186.59 17967186.69 0.0142 0.0086

Mars 44480-08-13 04:48 G 17967271.66 17967271.70 17967271.74 0.1928 0.1771

Uranus 44480-08-16 05:31 G 17967274.65 17967274.73 17967274.82 0.0142 0.0108

Uranus 44480-11-12 09:07 G 17967362.83 17967362.88 17967362.93 0.0143 0.0130

Jupiter 44482-01-22 19:12 G 17967799.26 17967799.30 17967799.35 0.0519 0.0485

Jupiter 44482-04-21 23:17 G 17967888.34 17967888.47 17967888.59 0.0517 0.0108

Moon 44484-09-15 14:24 G 17968766.07 17968766.10 17968766.14 0.2649 0.2491

Earth 44484-09-15 14:24 G 17968766.07 17968766.10 17968766.14 0.2656 0.2506 *

Saturn 44485-06-08 13:26 G 17969031.95 17969032.06 17969032.17 0.0294 0.0152

Saturn 44485-09-05 01:12 G 17969120.42 17969120.55 17969120.67 0.0293 0.0016

Saturn 44485-12-02 12:29 G 17969208.92 17969209.02 17969209.13 0.0292 0.0174

Jupiter 44488-06-13 01:26 G 17970132.38 17970132.56 17970132.73 0.0509 0.0160

Moon 44490-09-25 05:31 G 17970966.67 17970966.73 17970966.79 0.2660 0.2180

Earth 44490-09-25 05:46 G 17970966.67 17970966.74 17970966.80 0.2653 0.2135 *

Venus 44491-08-07 02:24 G 17971282.45 17971282.60 17971282.74 0.3681 0.1555

Jupiter 44494-02-08 04:05 G 17972198.55 17972198.67 17972198.80 0.0517 0.0036

Earth 44494-03-21 11:17 G 17972239.95 17972239.97 17972239.99 0.2676 0.2647

Mars 44494-09-16 10:19 G 17972418.76 17972418.93 17972419.10 0.1600 0.0296

Moon 44497-09-18 06:58 G 17973516.70 17973516.79 17973516.89 0.2651 0.1326

Earth 44497-09-18 07:26 G 17973516.72 17973516.81 17973516.91 0.2655 0.1280 *

Jupiter 44500-04-01 21:36 G 17974442.22 17974442.40 17974442.59 0.0509 0.0054

Mars 44501-05-02 11:46 G 17974837.91 17974837.99 17974838.08 0.1934 0.1284

Saturn 44501-06-16 08:38 G 17974882.76 17974882.86 17974882.99 0.0268 0.0214

Saturn 44501-09-13 07:41 G 17974971.62 17974971.82 17974972.01 0.0269 0.0024

Saturn 44501-12-11 06:14 G 17975060.62 17975060.76 17975060.91 0.0270 0.0170

Mars 44504-02-07 11:46 G 17975848.87 17975848.99 17975849.11 0.1602 0.1115

Jupiter 44505-11-28 08:38 G 17976508.74 17976508.86 17976508.97 0.0518 0.0187

Jupiter 44506-02-25 12:14 G 17976597.94 17976598.01 17976598.09 0.0516 0.0401

Moon 44507-03-25 20:53 G 17976991.21 17976991.37 17976991.53 0.2684 0.0576

Earth 44507-03-25 21:22 G 17976991.23 17976991.39 17976991.56 0.2677 0.0532 *

Moon 44510-09-21 23:46 G 17978267.39 17978267.49 17978267.60 0.2655 0.0211

Earth 44510-09-22 00:29 G 17978267.41 17978267.52 17978267.63 0.2655 0.0062 *

Mars 44510-09-22 20:24 G 17978268.24 17978268.35 17978268.46 0.1931 0.0151

Venus 44510-12-23 00:58 G 17978359.45 17978359.54 17978359.63 0.3690 0.1702

Jupiter 44512-01-19 17:46 G 17978752.08 17978752.24 17978752.40 0.0508 0.0269

Saturn 44514-10-27 15:22 G 17979764.05 17979764.14 17979764.23 0.0295 0.0206

Saturn 44515-01-24 02:53 G 17979852.50 17979852.62 17979852.75 0.0294 0.0042

Saturn 44515-04-22 14:24 G 17979940.99 17979941.10 17979941.22 0.0293 0.0122

Saturn 44515-07-20 01:55 G 17980029.56 17980029.58 17980029.61 0.0292 0.0282

Venus 44516-07-07 16:19 G 17980383.08 17980383.18 17980383.28 0.3689 0.0407

Jupiter 44517-09-16 13:12 G 17980818.96 17980819.05 17980819.15 0.0518 0.0335

Jupiter 44517-12-14 17:02 G 17980908.10 17980908.21 17980908.32 0.0516 0.0257

Uranus 44518-07-24 11:31 G 17981129.88 17981129.98 17981130.10 0.0137 0.0112

Uranus 44518-10-20 19:26 G 17981218.16 17981218.31 17981218.47 0.0137 0.0083

Uranus 44519-01-17 03:07 G 17981306.46 17981306.63 17981306.82 0.0136 0.0055

Uranus 44519-04-15 11:02 G 17981394.77 17981394.96 17981395.15 0.0136 0.0026

Uranus 44519-07-12 18:43 G 17981483.09 17981483.28 17981483.48 0.0136 0.0003

Uranus 44519-10-09 02:24 G 17981571.41 17981571.60 17981571.79 0.0136 0.0031

Uranus 44520-01-05 10:05 G 17981659.75 17981659.92 17981660.10 0.0136 0.0059

Mars 44520-02-13 04:48 G 17981698.64 17981698.70 17981698.76 0.1928 0.1608

Uranus 44520-04-02 17:31 G 17981748.09 17981748.23 17981748.39 0.0136 0.0087

Uranus 44520-06-30 01:12 G 17981836.46 17981836.55 17981836.66 0.0136 0.0115

Venus 44522-01-21 07:41 G 17982406.75 17982406.82 17982406.89 0.3689 0.2546

Neptune 44522-11-22 14:38 G 17982712.04 17982712.11 17982712.22 0.0089 0.0079

Neptune 44523-02-18 18:43 G 17982800.16 17982800.28 17982800.41 0.0089 0.0067

Neptune 44523-05-17 22:19 G 17982888.29 17982888.43 17982888.60 0.0089 0.0056

Neptune 44523-08-14 02:10 G 17982976.43 17982976.59 17982976.77 0.0089 0.0044

Moon 44523-09-24 17:02 G 17983018.11 17983018.21 17983018.31 0.2659 0.1164

Earth 44523-09-24 17:31 G 17983018.13 17983018.23 17983018.32 0.2654 0.1162 *

Jupiter 44523-11-07 13:26 G 17983062.02 17983062.06 17983062.11 0.0507 0.0489

Neptune 44523-11-10 06:00 G 17983064.57 17983064.75 17983064.94 0.0089 0.0033

Jupiter 44524-02-06 04:19 G 17983152.56 17983152.68 17983152.80 0.0509 0.0393

Neptune 44524-02-06 09:50 G 17983152.72 17983152.91 17983153.11 0.0089 0.0021 *

Neptune 44524-05-04 13:41 G 17983240.87 17983241.07 17983241.27 0.0089 0.0010

Neptune 44524-07-31 17:31 G 17983329.03 17983329.23 17983329.43 0.0089 0.0002

Neptune 44524-10-27 21:07 G 17983417.19 17983417.38 17983417.58 0.0089 0.0013

Neptune 44525-01-24 00:58 G 17983505.35 17983505.54 17983505.73 0.0089 0.0025

Neptune 44525-04-22 04:48 G 17983593.52 17983593.70 17983593.88 0.0089 0.0036

Neptune 44525-07-19 08:10 G 17983681.69 17983681.84 17983682.02 0.0089 0.0048

Neptune 44525-10-15 12:14 G 17983769.87 17983770.01 17983770.16 0.0089 0.0059

Neptune 44526-01-11 15:36 G 17983858.05 17983858.15 17983858.29 0.0089 0.0071

Neptune 44526-04-09 19:26 G 17983946.25 17983946.31 17983946.40 0.0089 0.0082

Jupiter 44529-07-05 18:00 G 17985129.21 17985129.25 17985129.30 0.0519 0.0481

Jupiter 44529-10-02 22:05 G 17985218.29 17985218.42 17985218.54 0.0517 0.0114

Moon 44530-09-17 19:12 G 17985568.25 17985568.30 17985568.35 0.2649 0.2290

Earth 44530-09-17 19:12 G 17985568.25 17985568.30 17985568.36 0.2656 0.2262 *

Saturn 44531-01-31 05:31 G 17985703.55 17985703.73 17985703.92 0.0269 0.0084

Saturn 44531-04-30 04:19 G 17985792.50 17985792.68 17985792.86 0.0270 0.0109

Mars 44534-03-18 11:02 G 17986845.80 17986845.96 17986846.12 0.1600 0.0519

Jupiter 44535-11-25 00:14 G 17987462.34 17987462.51 17987462.69 0.0509 0.0175

Moon 44536-09-26 10:19 G 17987768.88 17987768.93 17987768.98 0.2660 0.2328

Earth 44536-09-26 10:19 G 17987768.89 17987768.93 17987768.98 0.2653 0.2374 *

Moon 44540-03-22 17:02 G 17989042.11 17989042.21 17989042.30 0.2682 0.2176

Earth 44540-03-22 18:14 G 17989042.16 17989042.26 17989042.37 0.2677 0.2072 *

Mars 44540-10-31 12:00 G 17989264.93 17989265.00 17989265.07 0.1933 0.1465

Jupiter 44541-07-22 02:53 G 17989528.49 17989528.62 17989528.74 0.0517 0.0033

Mars 44543-08-08 12:14 G 17990275.87 17990276.01 17990276.16 0.1602 0.0897

Moon 44543-09-20 11:46 G 17990318.89 17990318.99 17990319.08 0.2652 0.1109

Earth 44543-09-20 12:14 G 17990318.91 17990319.01 17990319.11 0.2655 0.1035 *

Saturn 44544-03-15 17:17 G 17990496.16 17990496.22 17990496.28 0.0295 0.0257

Saturn 44544-06-12 05:02 G 17990584.59 17990584.71 17990584.83 0.0294 0.0091

Saturn 44544-09-08 16:34 G 17990673.07 17990673.19 17990673.32 0.0293 0.0073

Saturn 44544-12-06 04:05 G 17990761.60 17990761.67 17990761.75 0.0292 0.0234

Jupiter 44547-09-12 19:41 G 17991772.14 17991772.32 17991772.51 0.0509 0.0053

Venus 44548-03-14 04:48 G 17991955.55 17991955.70 17991955.85 0.3681 0.0930

Pluto 44549-08-06 12:00 G 17992465.90 17992466.00 17992466.14 0.0075 0.0060

Pluto 44549-11-02 14:38 G 17992553.96 17992554.11 17992554.29 0.0075 0.0039

Pluto 44550-01-29 17:31 G 17992642.04 17992642.23 17992642.42 0.0075 0.0019

Mars 44550-03-23 20:10 G 17992695.23 17992695.34 17992695.46 0.1931 0.0033

Pluto 44550-04-27 19:55 G 17992730.14 17992730.33 17992730.53 0.0075 0.0002

Pluto 44550-07-24 22:05 G 17992818.25 17992818.42 17992818.62 0.0075 0.0022

Pluto 44550-10-21 00:29 G 17992906.38 17992906.52 17992906.70 0.0075 0.0042

Pluto 44551-01-17 03:22 G 17992994.53 17992994.64 17992994.75 0.0075 0.0061

Moon 44553-03-26 04:34 G 17993793.54 17993793.69 17993793.84 0.2684 0.1018

Earth 44553-03-26 04:34 G 17993793.54 17993793.69 17993793.84 0.2678 0.1113 *

Jupiter 44553-05-10 07:41 G 17993838.71 17993838.82 17993838.94 0.0517 0.0175

Jupiter 44553-08-07 11:31 G 17993927.91 17993927.98 17993928.05 0.0515 0.0413

Moon 44556-09-22 04:34 G 17995069.58 17995069.69 17995069.80 0.2655 0.0133

Earth 44556-09-22 05:17 G 17995069.61 17995069.72 17995069.82 0.2654 0.0194 *

Jupiter 44559-07-01 16:05 G 17996082.02 17996082.17 17996082.34 0.0508 0.0264

Mars 44559-08-14 04:48 G 17996125.62 17996125.70 17996125.77 0.1929 0.1446

Saturn 44560-06-19 03:07 G 17996435.47 17996435.63 17996435.79 0.0268 0.0145

Saturn 44560-09-16 01:55 G 17996524.39 17996524.58 17996524.77 0.0269 0.0046

Saturn 44560-12-14 00:14 G 17996613.44 17996613.51 17996613.61 0.0270 0.0239

Uranus 44562-01-10 23:02 G 17997006.41 17997006.46 17997006.53 0.0141 0.0124

Venus 44562-01-13 07:12 G 17997008.74 17997008.80 17997008.85 0.3690 0.3038

Uranus 44562-04-09 02:24 G 17997094.52 17997094.60 17997094.70 0.0142 0.0103

Uranus 44562-07-06 05:46 G 17997182.64 17997182.74 17997182.85 0.0142 0.0082

Uranus 44562-10-02 09:07 G 17997270.77 17997270.88 17997271.00 0.0142 0.0061

Uranus 44562-12-29 12:29 G 17997358.90 17997359.02 17997359.15 0.0142 0.0040

Uranus 44563-03-27 15:50 G 17997447.04 17997447.16 17997447.29 0.0142 0.0019

Uranus 44563-06-23 19:12 G 17997535.17 17997535.30 17997535.44 0.0142 0.0006

Uranus 44563-09-19 22:34 G 17997623.32 17997623.44 17997623.57 0.0142 0.0025

Uranus 44563-12-17 01:55 G 17997711.46 17997711.58 17997711.71 0.0142 0.0047

Uranus 44564-03-14 05:31 G 17997799.62 17997799.73 17997799.84 0.0142 0.0067

Uranus 44564-06-10 08:53 G 17997887.77 17997887.87 17997887.97 0.0142 0.0089

Uranus 44564-09-06 12:14 G 17997975.94 17997976.01 17997976.10 0.0142 0.0111

Uranus 44564-12-03 15:36 G 17998064.12 17998064.15 17998064.21 0.0143 0.0133

Jupiter 44565-02-26 12:14 G 17998148.92 17998149.01 17998149.11 0.0518 0.0325

Jupiter 44565-05-26 16:05 G 17998238.07 17998238.17 17998238.28 0.0516 0.0265

Venus 44567-07-29 22:19 G 17999032.33 17999032.43 17999032.53 0.3690 0.0947

Moon 44569-09-24 21:50 G 17999820.32 17999820.41 17999820.50 0.2660 0.1311

Earth 44569-09-24 22:05 G 17999820.33 17999820.42 17999820.51 0.2654 0.1402 *

Jupiter 44571-04-19 12:29 G 18000391.96 18000392.02 18000392.09 0.0508 0.0475

Jupiter 44571-07-19 03:22 G 18000482.54 18000482.64 18000482.76 0.0509 0.0412

Venus 44573-02-11 13:41 G 18001055.97 18001056.07 18001056.17 0.3689 0.1180

Mars 44573-09-16 12:00 G 18001272.85 18001273.00 18001273.15 0.1600 0.0751

Saturn 44573-10-30 06:14 G 18001316.66 18001316.76 18001316.87 0.0295 0.0152

Saturn 44574-01-26 18:00 G 18001405.12 18001405.25 18001405.38 0.0294 0.0013

Saturn 44574-04-25 05:31 G 18001493.63 18001493.73 18001493.83 0.0293 0.0176

Moon 44576-09-17 23:46 G 18002370.42 18002370.49 18002370.56 0.2650 0.2001

Earth 44576-09-18 00:00 G 18002370.43 18002370.50 18002370.57 0.2656 0.2021 *

Jupiter 44576-12-15 17:02 G 18002459.16 18002459.21 18002459.26 0.0519 0.0472

Jupiter 44577-03-14 20:53 G 18002548.25 18002548.37 18002548.49 0.0517 0.0121

Venus 44578-08-28 05:02 G 18003079.67 18003079.71 18003079.75 0.3689 0.3317

Mars 44580-05-01 11:46 G 18003691.94 18003691.99 18003692.05 0.1933 0.1626

Earth 44582-09-27 15:07 G 18004571.11 18004571.13 18004571.14 0.2653 0.2611

Mars 44583-02-06 13:12 G 18004702.89 18004703.05 18004703.20 0.1602 0.0673

Jupiter 44583-05-06 23:17 G 18004792.30 18004792.47 18004792.65 0.0509 0.0190

Moon 44586-03-24 00:14 G 18005844.38 18005844.51 18005844.63 0.2682 0.1682

Earth 44586-03-24 01:26 G 18005844.42 18005844.56 18005844.69 0.2677 0.1491 *

Jupiter 44589-01-01 01:55 G 18006858.45 18006858.58 18006858.70 0.0518 0.0030

Moon 44589-09-20 16:19 G 18007121.08 18007121.18 18007121.28 0.2652 0.0906

Earth 44589-09-20 17:02 G 18007121.11 18007121.21 18007121.31 0.2655 0.0799 *

Mars 44589-09-21 20:10 G 18007122.23 18007122.34 18007122.46 0.1931 0.0177

Saturn 44589-11-06 00:29 G 18007167.41 18007167.52 18007167.65 0.0268 0.0210

Saturn 44590-02-02 23:17 G 18007256.27 18007256.47 18007256.66 0.0269 0.0020

Saturn 44590-05-02 21:50 G 18007345.27 18007345.41 18007345.56 0.0270 0.0173

Jupiter 44595-02-22 19:26 G 18009102.12 18009102.31 18009102.50 0.0508 0.0028

Mars 44599-02-12 04:34 G 18010552.61 18010552.69 18010552.78 0.1928 0.1275

Earth 44599-03-27 11:46 G 18010595.86 18010595.99 18010596.11 0.2678 0.1693

Moon 44599-03-27 12:00 G 18010595.88 18010596.00 18010596.12 0.2685 0.1821 *

Jupiter 44600-10-21 06:43 G 18011168.66 18011168.78 18011168.90 0.0518 0.0167

Jupiter 44601-01-18 10:34 G 18011257.87 18011257.94 18011258.01 0.0516 0.0421

Uranus 44602-05-18 11:02 G 18011742.93 18011742.96 18011743.02 0.0137 0.0133

Uranus 44602-08-14 18:58 G 18011831.18 18011831.29 18011831.43 0.0137 0.0104

Moon 44602-09-24 09:22 G 18011871.78 18011871.89 18011872.00 0.2657 0.0333

Earth 44602-09-24 09:50 G 18011871.81 18011871.91 18011872.02 0.2654 0.0436 *

Uranus 44602-11-11 02:53 G 18011919.46 18011919.62 18011919.79 0.0137 0.0075

Neptune 44602-12-22 03:22 G 18011960.63 18011960.64 18011960.66 0.0089 0.0088

Uranus 44603-02-07 10:34 G 18012007.77 18012007.94 18012008.14 0.0136 0.0047

Neptune 44603-03-20 04:19 G 18012048.64 18012048.68 18012048.75 0.0089 0.0081

Saturn 44603-03-20 07:55 G 18012048.74 18012048.83 18012048.92 0.0295 0.0207 *

Uranus 44603-05-06 18:29 G 18012096.08 18012096.27 18012096.47 0.0136 0.0018

Neptune 44603-06-16 05:46 G 18012136.68 18012136.74 18012136.82 0.0089 0.0073

Saturn 44603-06-16 19:41 G 18012137.19 18012137.32 18012137.45 0.0294 0.0041

Uranus 44603-08-03 02:10 G 18012184.40 18012184.59 18012184.79 0.0136 0.0012

Neptune 44603-09-12 06:58 G 18012224.71 18012224.79 18012224.89 0.0089 0.0066

Saturn 44603-09-13 07:12 G 18012225.69 18012225.80 18012225.92 0.0293 0.0123

Uranus 44603-10-30 09:50 G 18012272.73 18012272.91 18012273.11 0.0136 0.0040

Neptune 44603-12-09 08:24 G 18012312.75 18012312.85 18012312.95 0.0089 0.0058

Saturn 44603-12-10 18:43 G 18012314.26 18012314.28 18012314.31 0.0292 0.0284

Uranus 44604-01-26 17:46 G 18012361.07 18012361.24 18012361.41 0.0136 0.0067

Neptune 44604-03-06 09:36 G 18012400.80 18012400.90 18012401.01 0.0089 0.0050

Uranus 44604-04-24 01:26 G 18012449.42 18012449.56 18012449.70 0.0136 0.0095

Neptune 44604-06-02 10:48 G 18012488.84 18012488.95 18012489.07 0.0089 0.0043

Uranus 44604-07-21 08:53 G 18012537.80 18012537.87 18012537.95 0.0136 0.0123

Neptune 44604-08-29 12:00 G 18012576.89 18012577.00 18012577.13 0.0089 0.0036

Venus 44604-10-20 07:12 G 18012628.74 18012628.80 18012628.86 0.3681 0.3404

Neptune 44604-11-25 13:26 G 18012664.94 18012665.06 18012665.19 0.0089 0.0028

Neptune 44605-02-21 14:38 G 18012752.99 18012753.11 18012753.24 0.0089 0.0020

Neptune 44605-05-20 16:05 G 18012841.04 18012841.17 18012841.30 0.0089 0.0013

Neptune 44605-08-16 17:17 G 18012929.09 18012929.22 18012929.35 0.0089 0.0005

Neptune 44605-11-12 18:29 G 18013017.14 18013017.27 18013017.40 0.0089 0.0003

Neptune 44606-02-08 19:41 G 18013105.19 18013105.32 18013105.45 0.0089 0.0010

Neptune 44606-05-07 20:53 G 18013193.25 18013193.37 18013193.50 0.0089 0.0018

Neptune 44606-08-03 22:19 G 18013281.30 18013281.43 18013281.55 0.0089 0.0025

Neptune 44606-10-30 23:31 G 18013369.36 18013369.48 18013369.60 0.0089 0.0033

Jupiter 44606-12-12 14:38 G 18013411.95 18013412.11 18013412.28 0.0508 0.0257

Neptune 44607-01-27 00:29 G 18013457.42 18013457.52 18013457.65 0.0089 0.0041

Neptune 44607-04-25 01:55 G 18013545.48 18013545.58 18013545.70 0.0089 0.0048

Neptune 44607-07-22 03:07 G 18013633.54 18013633.63 18013633.74 0.0089 0.0055

Neptune 44607-10-18 04:19 G 18013721.60 18013721.68 18013721.78 0.0089 0.0063

Neptune 44608-01-14 05:31 G 18013809.66 18013809.73 18013809.82 0.0089 0.0071

Neptune 44608-04-11 06:58 G 18013897.73 18013897.79 18013897.86 0.0089 0.0078

Neptune 44608-07-08 07:55 G 18013985.82 18013985.83 18013985.88 0.0089 0.0086

Jupiter 44612-08-09 11:46 G 18015478.89 18015478.99 18015479.09 0.0518 0.0307

Jupiter 44612-11-06 15:36 G 18015568.05 18015568.15 18015568.25 0.0516 0.0282

Mars 44613-03-18 12:29 G 18015699.89 18015700.02 18015700.16 0.1601 0.0965

Moon 44615-09-27 02:38 G 18016622.52 18016622.61 18016622.69 0.2660 0.1649

Earth 44615-09-27 02:53 G 18016622.54 18016622.62 18016622.70 0.2653 0.1641 *

Venus 44618-08-21 04:19 G 18017681.61 18017681.68 18017681.76 0.3690 0.2292

Jupiter 44618-09-30 11:17 G 18017721.90 18017721.97 18017722.04 0.0508 0.0466

Jupiter 44618-12-30 02:10 G 18017812.49 18017812.59 18017812.70 0.0510 0.0422

Saturn 44619-06-23 20:38 G 18017988.17 18017988.36 18017988.54 0.0268 0.0084

Saturn 44619-09-20 19:12 G 18018077.12 18018077.30 18018077.48 0.0269 0.0107

Mars 44619-11-01 11:46 G 18018118.95 18018118.99 18018119.03 0.1934 0.1785

Mars 44622-08-08 13:55 G 18019129.92 18019130.08 18019130.24 0.1602 0.0440

Moon 44622-09-20 04:19 G 18019172.61 18019172.68 18019172.76 0.2650 0.1870

Earth 44622-09-20 04:34 G 18019172.62 18019172.69 18019172.77 0.2656 0.1782 *

Venus 44624-03-05 19:41 G 18019705.22 18019705.32 18019705.42 0.3690 0.0177

Jupiter 44624-05-28 16:19 G 18019789.13 18019789.18 18019789.24 0.0518 0.0457

Jupiter 44624-08-25 20:10 G 18019878.22 18019878.34 18019878.46 0.0516 0.0134

Mars 44629-03-23 20:10 G 18021549.23 18021549.34 18021549.46 0.1931 0.0353

Venus 44629-09-19 11:02 G 18021728.87 18021728.96 18021729.04 0.3689 0.1958

Jupiter 44630-10-17 22:48 G 18022122.28 18022122.45 18022122.62 0.0509 0.0210

Moon 44632-03-25 07:26 G 18022646.67 18022646.81 18022646.96 0.2682 0.1032

Earth 44632-03-25 08:24 G 18022646.69 18022646.85 18022647.00 0.2677 0.0925 *

Saturn 44632-08-06 08:53 G 18022780.83 18022780.87 18022780.92 0.0296 0.0272

Saturn 44632-11-02 20:38 G 18022869.24 18022869.36 18022869.48 0.0295 0.0106

Saturn 44633-01-30 08:24 G 18022957.72 18022957.85 18022957.98 0.0294 0.0060

Saturn 44633-04-28 19:55 G 18023046.25 18023046.33 18023046.41 0.0293 0.0222

Moon 44635-09-22 21:07 G 18023923.27 18023923.38 18023923.48 0.2653 0.0616

Earth 44635-09-22 21:36 G 18023923.30 18023923.40 18023923.51 0.2655 0.0559 *

Jupiter 44636-06-14 00:58 G 18024188.42 18024188.54 18024188.67 0.0517 0.0013

Mars 44638-08-14 04:34 G 18024979.60 18024979.69 18024979.78 0.1928 0.1119

Jupiter 44642-08-05 18:43 G 18026432.09 18026432.28 18026432.47 0.0508 0.0009

Earth 44645-03-28 18:43 G 18027398.20 18027398.28 18027398.37 0.2678 0.2270

Moon 44645-03-28 19:12 G 18027398.21 18027398.30 18027398.38 0.2685 0.2263 *

Uranus 44645-11-05 02:53 G 18027619.61 18027619.62 18027619.63 0.0141 0.0141

Uranus 44646-02-01 06:14 G 18027707.69 18027707.76 18027707.83 0.0141 0.0120

Uranus 44646-04-30 09:36 G 18027795.81 18027795.90 18027795.99 0.0141 0.0099

Uranus 44646-07-27 12:58 G 18027883.93 18027884.04 18027884.15 0.0142 0.0078

Uranus 44646-10-23 16:19 G 18027972.06 18027972.18 18027972.30 0.0142 0.0057

Uranus 44647-01-19 19:41 G 18028060.19 18028060.32 18028060.44 0.0142 0.0036

Uranus 44647-04-17 23:02 G 18028148.33 18028148.46 18028148.59 0.0142 0.0015

Uranus 44647-07-15 02:24 G 18028236.47 18028236.60 18028236.73 0.0142 0.0007

Uranus 44647-10-11 05:46 G 18028324.61 18028324.74 18028324.87 0.0142 0.0028

Uranus 44648-01-07 09:07 G 18028412.76 18028412.88 18028413.00 0.0142 0.0050

Jupiter 44648-04-02 05:46 G 18028498.62 18028498.74 18028498.86 0.0518 0.0157

Uranus 44648-04-04 12:29 G 18028500.91 18028501.02 18028501.14 0.0142 0.0071

Jupiter 44648-06-30 09:36 G 18028587.83 18028587.90 18028587.97 0.0516 0.0432

Uranus 44648-07-01 15:50 G 18028589.07 18028589.16 18028589.26 0.0142 0.0093

Moon 44648-09-24 14:10 G 18028673.98 18028674.09 18028674.19 0.2658 0.0583

Earth 44648-09-24 14:38 G 18028674.01 18028674.11 18028674.21 0.2654 0.0664 *

Uranus 44648-09-27 19:12 G 18028677.23 18028677.30 18028677.38 0.0142 0.0115

Saturn 44648-11-09 17:46 G 18028720.08 18028720.24 18028720.40 0.0268 0.0150

Uranus 44648-12-24 22:34 G 18028765.42 18028765.44 18028765.49 0.0143 0.0137

Saturn 44649-02-06 16:19 G 18028808.99 18028809.18 18028809.37 0.0269 0.0040

Saturn 44649-05-06 14:38 G 18028898.03 18028898.11 18028898.22 0.0270 0.0233

Mars 44652-09-16 13:12 G 18030126.94 18030127.05 18030127.17 0.1600 0.1192

Jupiter 44654-05-24 14:53 G 18030741.95 18030742.12 18030742.29 0.0508 0.0226

Venus 44655-11-10 23:17 G 18031277.33 18031277.47 18031277.61 0.3681 0.1684

Jupiter 44660-01-20 10:48 G 18032808.85 18032808.95 18032809.06 0.0518 0.0298

Jupiter 44660-04-18 14:38 G 18032898.01 18032898.11 18032898.21 0.0516 0.0292

Moon 44661-09-27 07:26 G 18033424.73 18033424.81 18033424.88 0.2660 0.1832

Earth 44661-09-27 07:41 G 18033424.74 18033424.82 18033424.89 0.2653 0.1880 *

Mars 44662-02-06 14:38 G 18033556.94 18033557.11 18033557.28 0.1602 0.0227

Saturn 44662-03-22 22:05 G 18033601.32 18033601.42 18033601.53 0.0295 0.0164

Saturn 44662-06-19 09:50 G 18033689.78 18033689.91 18033690.04 0.0294 0.0002

Saturn 44662-09-15 21:22 G 18033778.29 18033778.39 18033778.50 0.0293 0.0166

Jupiter 44666-03-12 09:50 G 18035051.83 18035051.91 18035051.99 0.0508 0.0457

Jupiter 44666-06-11 00:43 G 18035142.44 18035142.53 18035142.64 0.0510 0.0431

Moon 44668-09-20 08:53 G 18035974.79 18035974.87 18035974.96 0.2651 0.1540

Earth 44668-09-20 09:22 G 18035974.81 18035974.89 18035974.98 0.2656 0.1537 *

Mars 44668-09-21 20:10 G 18035976.23 18035976.34 18035976.45 0.1931 0.0490

Venus 44669-09-11 10:34 G 18036330.92 18036330.94 18036330.96 0.3690 0.3617

Jupiter 44671-11-08 15:50 G 18037119.10 18037119.16 18037119.23 0.0518 0.0437

Jupiter 44672-02-05 19:41 G 18037208.20 18037208.32 18037208.44 0.0516 0.0154

Venus 44675-03-28 01:41 G 18038354.48 18038354.57 18038354.67 0.3690 0.1528

Mars 44678-02-12 04:34 G 18039406.59 18039406.69 18039406.79 0.1929 0.0946

Moon 44678-03-26 15:07 G 18039448.97 18039449.13 18039449.29 0.2683 0.0345

Earth 44678-03-26 15:36 G 18039448.98 18039449.15 18039449.31 0.2677 0.0349 *

Saturn 44678-03-29 15:07 G 18039452.02 18039452.13 18039452.25 0.0267 0.0213

Jupiter 44678-03-29 21:22 G 18039452.22 18039452.39 18039452.56 0.0510 0.0221 *

Saturn 44678-06-26 13:41 G 18039540.87 18039541.07 18039541.26 0.0268 0.0025

Saturn 44678-09-23 12:14 G 18039629.86 18039630.01 18039630.16 0.0268 0.0166

Venus 44680-10-10 17:02 G 18040378.11 18040378.21 18040378.31 0.3689 0.0602

Moon 44681-09-23 01:41 G 18040725.47 18040725.57 18040725.68 0.2654 0.0452

Earth 44681-09-23 02:24 G 18040725.49 18040725.60 18040725.71 0.2655 0.0317 *

Jupiter 44683-11-25 00:29 G 18041518.39 18041518.52 18041518.64 0.0517 0.0014

Venus 44686-04-26 08:24 G 18042401.78 18042401.85 18042401.92 0.3689 0.2738

Uranus 44686-06-07 18:14 G 18042444.19 18042444.26 18042444.34 0.0137 0.0126

Uranus 44686-09-04 01:41 G 18042532.45 18042532.57 18042532.73 0.0137 0.0098

Uranus 44686-12-01 09:50 G 18042620.75 18042620.91 18042621.08 0.0137 0.0069

Uranus 44687-02-27 17:46 G 18042709.05 18042709.24 18042709.43 0.0136 0.0040

Neptune 44687-05-24 08:38 G 18042794.84 18042794.86 18042794.92 0.0089 0.0087

Uranus 44687-05-27 01:26 G 18042797.37 18042797.56 18042797.76 0.0136 0.0011

Neptune 44687-08-20 12:14 G 18042882.93 18042883.01 18042883.14 0.0089 0.0076

Uranus 44687-08-23 09:22 G 18042885.69 18042885.89 18042886.08 0.0136 0.0018

Neptune 44687-11-16 16:19 G 18042971.06 18042971.18 18042971.33 0.0089 0.0064

Uranus 44687-11-19 16:48 G 18042974.02 18042974.20 18042974.39 0.0136 0.0046

Neptune 44688-02-12 19:55 G 18043059.19 18043059.33 18043059.51 0.0089 0.0053

Uranus 44688-02-16 00:29 G 18043062.37 18043062.52 18043062.69 0.0136 0.0074

Neptune 44688-05-11 00:00 G 18043147.33 18043147.50 18043147.68 0.0089 0.0041

Uranus 44688-05-14 08:10 G 18043150.72 18043150.84 18043150.98 0.0136 0.0102

Neptune 44688-08-07 03:50 G 18043235.48 18043235.66 18043235.85 0.0089 0.0030

Uranus 44688-08-10 15:50 G 18043239.11 18043239.16 18043239.22 0.0136 0.0130

Neptune 44688-11-03 07:41 G 18043323.63 18043323.82 18043324.02 0.0089 0.0018

Neptune 44689-01-30 11:31 G 18043411.78 18043411.98 18043412.18 0.0089 0.0007

Neptune 44689-04-28 15:22 G 18043499.94 18043500.14 18043500.34 0.0089 0.0005

Neptune 44689-07-25 18:58 G 18043588.10 18043588.29 18043588.49 0.0089 0.0017

Neptune 44689-10-21 22:48 G 18043676.26 18043676.45 18043676.64 0.0089 0.0028

Jupiter 44690-01-15 18:00 G 18043762.06 18043762.25 18043762.44 0.0509 0.0012

Neptune 44690-01-18 02:10 G 18043764.43 18043764.59 18043764.79 0.0089 0.0040

Neptune 44690-04-16 06:00 G 18043852.60 18043852.75 18043852.93 0.0089 0.0051

Neptune 44690-07-13 10:05 G 18043940.78 18043940.92 18043941.06 0.0089 0.0062

Neptune 44690-10-09 13:26 G 18044028.97 18044029.06 18044029.19 0.0089 0.0074

Neptune 44691-01-05 17:17 G 18044117.18 18044117.22 18044117.29 0.0089 0.0085

Saturn 44691-08-09 22:48 G 18044333.38 18044333.45 18044333.53 0.0296 0.0233

Saturn 44691-11-06 10:34 G 18044421.82 18044421.94 18044422.07 0.0295 0.0066

Saturn 44692-02-02 22:19 G 18044510.31 18044510.43 18044510.55 0.0294 0.0099

Mars 44692-03-17 14:10 G 18044554.01 18044554.09 18044554.16 0.1600 0.1422

Saturn 44692-05-01 09:50 G 18044598.86 18044598.91 18044598.97 0.0293 0.0262

Moon 44694-09-25 18:43 G 18045476.18 18045476.28 18045476.38 0.2659 0.0869

Earth 44694-09-25 19:12 G 18045476.20 18045476.30 18045476.41 0.2654 0.0910 *

Jupiter 44695-09-13 05:02 G 18045828.59 18045828.71 18045828.84 0.0517 0.0142

Jupiter 44695-12-11 08:53 G 18045917.81 18045917.87 18045917.93 0.0515 0.0446

Mars 44701-08-08 15:22 G 18047983.97 18047984.14 18047984.31 0.1602 0.0027

Moon 44701-09-19 21:07 G 18048026.34 18048026.38 18048026.42 0.2650 0.2471

Earth 44701-09-19 21:07 G 18048026.35 18048026.38 18048026.41 0.2656 0.2521 *

Jupiter 44701-11-04 14:10 G 18048071.92 18048072.09 18048072.26 0.0508 0.0207

Jupiter 44707-07-03 10:05 G 18050138.81 18050138.92 18050139.02 0.0518 0.0287

Moon 44707-09-29 12:14 G 18050226.95 18050227.01 18050227.07 0.2660 0.2121

Earth 44707-09-29 12:14 G 18050226.95 18050227.01 18050227.08 0.2653 0.2119 *

Jupiter 44707-09-30 13:41 G 18050227.97 18050228.07 18050228.18 0.0516 0.0304

Saturn 44707-11-14 10:34 G 18050272.77 18050272.94 18050273.13 0.0268 0.0093

Saturn 44708-02-11 09:07 G 18050361.71 18050361.88 18050362.07 0.0269 0.0098

Mars 44708-03-23 20:10 G 18050403.23 18050403.34 18050403.44 0.1931 0.0660

Mars 44710-12-29 16:34 G 18051414.11 18051414.19 18051414.26 0.1604 0.1425

Pluto 44711-05-06 18:14 G 18051542.22 18051542.26 18051542.32 0.0068 0.0063

Pluto 44711-08-02 18:58 G 18051630.21 18051630.29 18051630.38 0.0068 0.0053

Pluto 44711-10-29 19:26 G 18051718.21 18051718.31 18051718.42 0.0068 0.0042

Pluto 44712-01-25 19:55 G 18051806.22 18051806.33 18051806.45 0.0068 0.0032

Pluto 44712-04-22 20:24 G 18051894.23 18051894.35 18051894.49 0.0068 0.0022

Venus 44712-06-18 01:41 G 18051950.42 18051950.57 18051950.73 0.3681 0.0847

Pluto 44712-07-19 21:07 G 18051982.25 18051982.38 18051982.51 0.0069 0.0011

Pluto 44712-10-15 21:36 G 18052070.27 18052070.40 18052070.54 0.0069 0.0002

Pluto 44713-01-11 22:19 G 18052158.30 18052158.43 18052158.56 0.0069 0.0010

Pluto 44713-04-09 22:34 G 18052246.32 18052246.44 18052246.58 0.0069 0.0021

Pluto 44713-07-06 23:17 G 18052334.36 18052334.47 18052334.59 0.0069 0.0031

Jupiter 44713-08-23 10:19 G 18052381.83 18052381.93 18052382.03 0.0508 0.0422

Pluto 44713-10-02 23:46 G 18052422.39 18052422.49 18052422.60 0.0069 0.0042

Jupiter 44713-11-22 01:12 G 18052472.47 18052472.55 18052472.62 0.0510 0.0464

Pluto 44713-12-30 00:14 G 18052510.44 18052510.51 18052510.60 0.0069 0.0053

Pluto 44714-03-28 00:58 G 18052598.49 18052598.54 18052598.59 0.0069 0.0064

Moon 44714-09-22 13:41 G 18052776.98 18052777.07 18052777.16 0.2651 0.1421

Earth 44714-09-22 14:10 G 18052777.00 18052777.09 18052777.18 0.2656 0.1293 *

Mars 44717-08-14 04:34 G 18053833.58 18053833.69 18053833.79 0.1928 0.0787

Jupiter 44719-04-21 15:07 G 18054449.06 18054449.13 18054449.20 0.0518 0.0426

Jupiter 44719-07-19 18:58 G 18054538.17 18054538.29 18054538.41 0.0516 0.0165

Saturn 44720-12-28 00:00 G 18055065.49 18055065.50 18055065.52 0.0296 0.0294

Saturn 44721-03-26 12:00 G 18055153.88 18055154.00 18055154.11 0.0295 0.0126

Saturn 44721-06-22 23:46 G 18055242.36 18055242.49 18055242.61 0.0294 0.0041

Saturn 44721-09-19 11:17 G 18055330.88 18055330.97 18055331.06 0.0293 0.0204

Moon 44724-03-27 22:19 G 18056251.27 18056251.43 18056251.60 0.2684 0.0149

Earth 44724-03-27 22:34 G 18056251.28 18056251.44 18056251.61 0.2677 0.0233 *

Jupiter 44725-09-09 20:10 G 18056782.17 18056782.34 18056782.51 0.0510 0.0230

Venus 44726-04-19 07:55 G 18057003.77 18057003.83 18057003.89 0.3690 0.2856

Moon 44727-09-25 06:29 G 18057527.66 18057527.77 18057527.88 0.2656 0.0108

Earth 44727-09-25 07:12 G 18057527.69 18057527.80 18057527.90 0.2655 0.0134 *

Uranus 44729-11-26 09:50 G 18058320.89 18058320.91 18058320.95 0.0141 0.0136

Uranus 44730-02-22 13:12 G 18058408.99 18058409.05 18058409.13 0.0141 0.0116

Uranus 44730-05-21 16:34 G 18058497.10 18058497.19 18058497.29 0.0141 0.0095

Uranus 44730-08-17 19:55 G 18058585.23 18058585.33 18058585.45 0.0142 0.0074

Uranus 44730-11-13 23:17 G 18058673.36 18058673.47 18058673.60 0.0142 0.0053

Uranus 44731-02-10 02:38 G 18058761.49 18058761.61 18058761.74 0.0142 0.0032

Jupiter 44731-05-08 00:00 G 18058848.38 18058848.50 18058848.63 0.0517 0.0028

Uranus 44731-05-09 06:14 G 18058849.63 18058849.76 18058849.89 0.0142 0.0011

Uranus 44731-08-05 09:36 G 18058937.77 18058937.90 18058938.03 0.0142 0.0012

Uranus 44731-11-01 12:58 G 18059025.91 18059026.04 18059026.17 0.0142 0.0033

Venus 44731-11-02 23:02 G 18059027.36 18059027.46 18059027.56 0.3690 0.0761

Uranus 44732-01-28 16:19 G 18059114.06 18059114.18 18059114.30 0.0142 0.0054

Uranus 44732-04-25 19:41 G 18059202.21 18059202.32 18059202.43 0.0142 0.0076

Uranus 44732-07-22 23:02 G 18059290.37 18059290.46 18059290.56 0.0142 0.0098

Uranus 44732-10-19 02:24 G 18059378.54 18059378.60 18059378.68 0.0142 0.0119

Uranus 44733-01-15 06:00 G 18059466.74 18059466.75 18059466.77 0.0142 0.0141

Saturn 44737-04-02 08:10 G 18061004.69 18061004.84 18061005.00 0.0267 0.0155

Venus 44737-05-18 14:24 G 18061051.01 18061051.10 18061051.19 0.3689 0.1383

Jupiter 44737-06-28 16:48 G 18061092.01 18061092.20 18061092.39 0.0509 0.0021

Saturn 44737-06-30 06:43 G 18061093.59 18061093.78 18061093.97 0.0267 0.0034

Saturn 44737-09-27 05:17 G 18061182.62 18061182.72 18061182.82 0.0268 0.0225

Moon 44740-09-26 23:31 G 18062278.38 18062278.48 18062278.58 0.2659 0.1045

Earth 44740-09-27 00:00 G 18062278.41 18062278.50 18062278.60 0.2654 0.1144 *

Mars 44741-02-06 16:05 G 18062411.00 18062411.17 18062411.34 0.1602 0.0229

Venus 44742-12-02 05:46 G 18063074.71 18063074.74 18063074.77 0.3689 0.3522

Jupiter 44743-02-24 04:34 G 18063158.57 18063158.69 18063158.82 0.0517 0.0124

Jupiter 44743-05-24 08:24 G 18063247.80 18063247.85 18063247.90 0.0515 0.0464

Moon 44747-09-21 01:41 G 18064828.52 18064828.57 18064828.62 0.2650 0.2315

Earth 44747-09-21 01:55 G 18064828.52 18064828.58 18064828.63 0.2656 0.2276 *

Mars 44747-09-22 20:10 G 18064830.24 18064830.34 18064830.44 0.1931 0.0838

Jupiter 44749-04-16 13:26 G 18065401.88 18065402.06 18065402.23 0.0509 0.0189

Mars 44750-06-29 17:17 G 18065841.11 18065841.22 18065841.33 0.1604 0.1196

Saturn 44750-08-13 12:43 G 18065885.94 18065886.03 18065886.13 0.0296 0.0194

Saturn 44750-11-10 00:29 G 18065974.39 18065974.52 18065974.65 0.0295 0.0027

Saturn 44751-02-06 12:14 G 18066062.89 18066063.01 18066063.12 0.0294 0.0139

Earth 44753-09-29 17:02 G 18067029.16 18067029.21 18067029.26 0.2653 0.2354

Moon 44753-09-29 17:02 G 18067029.17 18067029.21 18067029.26 0.2660 0.2402 *

Jupiter 44754-12-13 09:22 G 18067468.79 18067468.89 18067469.00 0.0518 0.0269

Jupiter 44755-03-12 13:12 G 18067557.95 18067558.05 18067558.15 0.0516 0.0319

Mars 44757-02-12 04:34 G 18068260.58 18068260.69 18068260.79 0.1928 0.0624

Moon 44757-03-25 18:14 G 18068302.23 18068302.26 18068302.29 0.2681 0.2614

Earth 44757-03-25 19:26 G 18068302.23 18068302.31 18068302.38 0.2676 0.2369 *

Moon 44760-09-22 18:14 G 18069579.16 18069579.26 18069579.36 0.2651 0.1073

Earth 44760-09-22 18:43 G 18069579.19 18069579.28 18069579.38 0.2655 0.1061 *

Jupiter 44761-02-02 09:36 G 18069711.79 18069711.90 18069712.01 0.0508 0.0404

Jupiter 44761-05-04 00:29 G 18069802.47 18069802.52 18069802.58 0.0510 0.0483

Saturn 44766-08-20 05:31 G 18071736.62 18071736.73 18071736.84 0.0267 0.0220

Jupiter 44766-10-01 14:10 G 18071779.02 18071779.09 18071779.16 0.0518 0.0417

Saturn 44766-11-17 03:50 G 18071825.47 18071825.66 18071825.86 0.0268 0.0033

Jupiter 44766-12-29 18:00 G 18071868.13 18071868.25 18071868.37 0.0517 0.0175

Saturn 44767-02-14 02:24 G 18071914.45 18071914.60 18071914.76 0.0269 0.0158

Neptune 44767-09-19 02:53 G 18072131.60 18072131.62 18072131.65 0.0089 0.0086

Neptune 44767-12-16 03:50 G 18072219.62 18072219.66 18072219.74 0.0089 0.0079

Neptune 44768-03-13 05:17 G 18072307.65 18072307.72 18072307.81 0.0089 0.0071

Neptune 44768-06-09 06:29 G 18072395.69 18072395.77 18072395.87 0.0089 0.0064

Neptune 44768-09-05 07:55 G 18072483.73 18072483.83 18072483.93 0.0089 0.0056

Neptune 44768-12-02 09:07 G 18072571.78 18072571.88 18072571.99 0.0089 0.0048

Venus 44769-01-23 04:05 G 18072623.60 18072623.67 18072623.74 0.3681 0.3293

Neptune 44769-02-28 10:19 G 18072659.82 18072659.93 18072660.05 0.0089 0.0041

Neptune 44769-05-27 11:46 G 18072747.87 18072747.99 18072748.11 0.0089 0.0033

Neptune 44769-08-23 12:58 G 18072835.92 18072836.04 18072836.17 0.0089 0.0026

Neptune 44769-11-19 14:10 G 18072923.97 18072924.09 18072924.22 0.0089 0.0018

Neptune 44770-02-15 15:36 G 18073012.02 18073012.15 18073012.28 0.0089 0.0011

Moon 44770-03-29 05:31 G 18073053.58 18073053.73 18073053.88 0.2684 0.0891

Earth 44770-03-29 05:31 G 18073053.58 18073053.73 18073053.89 0.2677 0.0810 *

Neptune 44770-05-14 16:48 G 18073100.07 18073100.20 18073100.33 0.0089 0.0003

Uranus 44770-06-29 01:12 G 18073145.46 18073145.55 18073145.65 0.0137 0.0119

Neptune 44770-08-10 18:00 G 18073188.12 18073188.25 18073188.38 0.0089 0.0005

Uranus 44770-09-25 08:53 G 18073233.74 18073233.87 18073234.03 0.0137 0.0091

Neptune 44770-11-06 19:12 G 18073276.18 18073276.30 18073276.43 0.0089 0.0013

Uranus 44770-12-22 16:48 G 18073322.04 18073322.20 18073322.39 0.0137 0.0062

Neptune 44771-02-02 20:38 G 18073364.23 18073364.36 18073364.48 0.0089 0.0020

Uranus 44771-03-21 00:43 G 18073410.35 18073410.53 18073410.73 0.0136 0.0033

Neptune 44771-05-01 21:36 G 18073452.29 18073452.40 18073452.53 0.0089 0.0028

Uranus 44771-06-17 08:38 G 18073498.67 18073498.86 18073499.06 0.0136 0.0004

Neptune 44771-07-28 23:02 G 18073540.34 18073540.46 18073540.58 0.0089 0.0035

Uranus 44771-09-13 16:19 G 18073586.99 18073587.18 18073587.38 0.0136 0.0025

Neptune 44771-10-25 00:14 G 18073628.40 18073628.51 18073628.63 0.0089 0.0042

Uranus 44771-12-11 00:00 G 18073675.33 18073675.50 18073675.69 0.0136 0.0053

Neptune 44772-01-21 01:26 G 18073716.46 18073716.56 18073716.67 0.0089 0.0050

Uranus 44772-03-08 07:41 G 18073763.67 18073763.82 18073763.98 0.0136 0.0081

Neptune 44772-04-18 02:38 G 18073804.52 18073804.61 18073804.72 0.0089 0.0058

Uranus 44772-06-04 15:36 G 18073852.03 18073852.15 18073852.26 0.0136 0.0109

Neptune 44772-07-15 04:05 G 18073892.58 18073892.67 18073892.76 0.0089 0.0065

Neptune 44772-10-11 05:02 G 18073980.65 18073980.71 18073980.80 0.0089 0.0073

Neptune 44773-01-07 06:29 G 18074068.72 18074068.77 18074068.83 0.0089 0.0080

Jupiter 44773-02-19 20:24 G 18074112.19 18074112.35 18074112.52 0.0509 0.0265

Neptune 44773-04-05 07:41 G 18074156.81 18074156.82 18074156.84 0.0089 0.0088

Moon 44773-09-25 11:17 G 18074329.86 18074329.97 18074330.07 0.2657 0.0094

Earth 44773-09-25 11:46 G 18074329.88 18074329.99 18074330.10 0.2655 0.0174 *

Jupiter 44778-10-17 23:02 G 18076178.34 18076178.46 18076178.59 0.0517 0.0040

Saturn 44779-12-31 13:55 G 18076618.02 18076618.08 18076618.14 0.0296 0.0256

Saturn 44780-03-29 01:41 G 18076706.45 18076706.57 18076706.69 0.0295 0.0088

Saturn 44780-06-25 13:26 G 18076794.94 18076795.06 18076795.18 0.0294 0.0078

Mars 44780-08-07 16:48 G 18076838.03 18076838.20 18076838.36 0.1602 0.0449

Saturn 44780-09-22 00:58 G 18076883.47 18076883.54 18076883.62 0.0293 0.0242

Venus 44782-11-24 05:17 G 18077676.64 18077676.72 18077676.80 0.3690 0.2095

Jupiter 44784-12-08 15:22 G 18078421.95 18078422.14 18078422.33 0.0509 0.0029

Moon 44786-09-28 04:19 G 18079080.59 18079080.68 18079080.77 0.2659 0.1385

Earth 44786-09-28 04:48 G 18079080.61 18079080.70 18079080.79 0.2654 0.1383 *

Mars 44787-03-23 19:55 G 18079257.23 18079257.33 18079257.43 0.1931 0.0981

Venus 44788-06-08 20:24 G 18079700.25 18079700.35 18079700.45 0.3690 0.0107

Mars 44789-12-28 18:00 G 18080268.11 18080268.25 18080268.38 0.1605 0.0975

Jupiter 44790-08-06 04:19 G 18080488.55 18080488.68 18080488.80 0.0517 0.0102

Jupiter 44790-11-03 07:55 G 18080577.79 18080577.83 18080577.87 0.0515 0.0484

Moon 44793-09-21 06:14 G 18081630.70 18081630.76 18081630.83 0.2650 0.2064

Earth 44793-09-21 06:29 G 18081630.71 18081630.77 18081630.84 0.2656 0.2037 *

Venus 44793-12-23 11:46 G 18081723.91 18081723.99 18081724.07 0.3689 0.2159

Saturn 44796-04-05 01:41 G 18082557.39 18082557.57 18082557.76 0.0267 0.0093

Saturn 44796-07-03 00:14 G 18082646.33 18082646.51 18082646.69 0.0268 0.0096

Mars 44796-08-13 04:19 G 18082687.57 18082687.68 18082687.79 0.1929 0.0461

Jupiter 44796-09-26 11:46 G 18082731.82 18082731.99 18082732.17 0.0509 0.0183

Pluto 44797-11-30 16:19 G 18083162.11 18083162.18 18083162.29 0.0075 0.0067

Pluto 44798-02-26 18:58 G 18083250.15 18083250.29 18083250.46 0.0075 0.0046

Pluto 44798-05-25 21:50 G 18083338.23 18083338.41 18083338.59 0.0075 0.0026

Pluto 44798-08-22 00:14 G 18083426.32 18083426.51 18083426.71 0.0075 0.0006

Pluto 44798-11-18 02:38 G 18083514.43 18083514.61 18083514.81 0.0075 0.0015

Pluto 44799-02-14 04:48 G 18083602.55 18083602.70 18083602.89 0.0075 0.0035

Pluto 44799-05-13 07:12 G 18083690.69 18083690.80 18083690.95 0.0075 0.0055

Pluto 44799-08-09 10:05 G 18083778.90 18083778.92 18083778.94 0.0075 0.0074

Moon 44799-09-30 21:50 G 18083831.39 18083831.41 18083831.43 0.2660 0.2594

Earth 44799-09-30 21:50 G 18083831.39 18083831.41 18083831.42 0.2653 0.2596 *

Jupiter 44802-05-25 08:53 G 18084798.76 18084798.87 18084798.98 0.0517 0.0252

Jupiter 44802-08-22 12:29 G 18084887.93 18084888.02 18084888.12 0.0516 0.0337

Moon 44803-03-27 01:41 G 18085104.45 18085104.57 18085104.69 0.2683 0.1799

Earth 44803-03-27 02:24 G 18085104.48 18085104.60 18085104.72 0.2676 0.1799 *

Mars 44806-01-03 12:58 G 18086118.02 18086118.04 18086118.06 0.1925 0.1884

Moon 44806-09-23 23:02 G 18086381.36 18086381.46 18086381.56 0.2653 0.0927

Earth 44806-09-23 23:31 G 18086381.38 18086381.48 18086381.58 0.2655 0.0810 *

Jupiter 44808-07-15 08:24 G 18087041.74 18087041.85 18087041.97 0.0508 0.0390

Jupiter 44808-10-13 23:31 G 18087132.45 18087132.48 18087132.52 0.0510 0.0499

Saturn 44809-08-16 02:38 G 18087438.50 18087438.61 18087438.72 0.0296 0.0155

Saturn 44809-11-12 14:24 G 18087526.97 18087527.10 18087527.23 0.0295 0.0013

Saturn 44810-02-09 01:55 G 18087615.49 18087615.58 18087615.69 0.0294 0.0178

Uranus 44813-12-16 17:31 G 18089022.19 18089022.23 18089022.29 0.0141 0.0129

Jupiter 44814-03-13 13:26 G 18089108.98 18089109.06 18089109.14 0.0518 0.0400

Uranus 44814-03-14 20:53 G 18089110.30 18089110.37 18089110.46 0.0141 0.0108

Jupiter 44814-06-10 17:17 G 18089198.10 18089198.22 18089198.34 0.0516 0.0191

Uranus 44814-06-11 00:14 G 18089198.42 18089198.51 18089198.62 0.0141 0.0087

Uranus 44814-09-07 03:36 G 18089286.54 18089286.65 18089286.77 0.0142 0.0066

Uranus 44814-12-04 06:58 G 18089374.67 18089374.79 18089374.92 0.0142 0.0046

Uranus 44815-03-02 10:34 G 18089462.81 18089462.94 18089463.06 0.0142 0.0024

Uranus 44815-05-29 13:55 G 18089550.95 18089551.08 18089551.21 0.0142 0.0004

Uranus 44815-08-25 17:17 G 18089639.09 18089639.22 18089639.35 0.0142 0.0019

Uranus 44815-11-21 20:38 G 18089727.23 18089727.36 18089727.48 0.0142 0.0040

Uranus 44816-02-18 00:00 G 18089815.38 18089815.50 18089815.62 0.0142 0.0062

Moon 44816-03-29 12:43 G 18089855.89 18089856.03 18089856.18 0.2684 0.1300

Earth 44816-03-29 12:43 G 18089855.89 18089856.03 18089856.17 0.2677 0.1380 *

Uranus 44816-05-16 03:22 G 18089903.54 18089903.64 18089903.75 0.0142 0.0083

Uranus 44816-08-12 06:43 G 18089991.70 18089991.78 18089991.87 0.0142 0.0105

Uranus 44816-11-08 10:19 G 18090079.87 18090079.93 18090079.99 0.0142 0.0127

Moon 44819-09-26 15:50 G 18091132.06 18091132.16 18091132.27 0.2657 0.0381

Earth 44819-09-26 16:34 G 18091132.08 18091132.19 18091132.29 0.2655 0.0410 *

Mars 44820-02-06 17:31 G 18091265.07 18091265.23 18091265.38 0.1602 0.0673

Venus 44820-02-13 19:55 G 18091272.20 18091272.33 18091272.47 0.3681 0.1860

Jupiter 44820-08-01 19:41 G 18091442.16 18091442.32 18091442.48 0.0509 0.0281

Saturn 44825-08-22 23:17 G 18093289.32 18093289.47 18093289.63 0.0267 0.0156

Saturn 44825-11-19 21:50 G 18093378.21 18093378.41 18093378.60 0.0268 0.0033

Saturn 44826-02-16 20:10 G 18093467.24 18093467.34 18093467.45 0.0269 0.0223

Jupiter 44826-03-29 22:05 G 18093508.29 18093508.42 18093508.55 0.0517 0.0045

Mars 44826-09-21 19:55 G 18093684.24 18093684.33 18093684.42 0.1931 0.1153

Mars 44829-06-28 18:43 G 18094695.13 18094695.28 18094695.43 0.1604 0.0753

Jupiter 44832-05-20 15:36 G 18095751.96 18095752.15 18095752.34 0.0509 0.0061

Moon 44832-09-28 09:22 G 18095882.80 18095882.89 18095882.97 0.2660 0.1546

Earth 44832-09-28 09:36 G 18095882.81 18095882.90 18095882.98 0.2654 0.1625 *

Venus 44833-12-15 11:17 G 18096325.94 18096325.97 18096326.01 0.3690 0.3430

Mars 44836-02-12 04:19 G 18097114.57 18097114.68 18097114.79 0.1928 0.0293

Jupiter 44838-01-16 03:22 G 18097818.51 18097818.64 18097818.76 0.0517 0.0095

Jupiter 44838-04-15 06:58 G 18097907.76 18097907.79 18097907.82 0.0515 0.0493

Saturn 44839-01-03 04:05 G 18098170.59 18098170.67 18098170.76 0.0296 0.0213

Saturn 44839-04-01 15:50 G 18098259.04 18098259.16 18098259.29 0.0295 0.0046

Saturn 44839-06-29 03:36 G 18098347.53 18098347.65 18098347.77 0.0294 0.0121

Venus 44839-07-01 02:38 G 18098349.51 18098349.61 18098349.70 0.3690 0.1336

Moon 44839-09-22 11:02 G 18098432.88 18098432.96 18098433.03 0.2650 0.1827

Earth 44839-09-22 11:17 G 18098432.89 18098432.97 18098433.05 0.2656 0.1792 *

Saturn 44839-09-25 15:22 G 18098436.11 18098436.14 18098436.16 0.0293 0.0284

Jupiter 44844-03-08 10:05 G 18100061.75 18100061.92 18100062.10 0.0509 0.0178

Venus 44845-01-13 17:46 G 18100373.14 18100373.24 18100373.34 0.3689 0.0806

Mars 44845-07-04 12:43 G 18100544.99 18100545.03 18100545.08 0.1925 0.1744

Moon 44849-03-27 08:53 G 18101906.73 18101906.87 18101907.01 0.2683 0.1389

Earth 44849-03-27 09:36 G 18101906.75 18101906.90 18101907.05 0.2676 0.1211 *

Jupiter 44849-11-04 08:24 G 18102128.74 18102128.85 18102128.96 0.0518 0.0234

Jupiter 44850-02-01 12:00 G 18102217.91 18102218.00 18102218.09 0.0516 0.0355

Venus 44850-07-30 09:07 G 18102396.82 18102396.88 18102396.94 0.3689 0.2931

Neptune 44852-02-19 06:00 G 18102965.72 18102965.75 18102965.83 0.0089 0.0085

Neptune 44852-05-17 09:50 G 18103053.82 18103053.91 18103054.04 0.0089 0.0074

Neptune 44852-08-13 13:41 G 18103141.95 18103142.07 18103142.23 0.0089 0.0062

Moon 44852-09-24 03:36 G 18103183.55 18103183.65 18103183.76 0.2654 0.0645

Earth 44852-09-24 04:19 G 18103183.57 18103183.68 18103183.78 0.2655 0.0573 *

Neptune 44852-11-09 17:31 G 18103230.08 18103230.23 18103230.41 0.0089 0.0051

Neptune 44853-02-05 21:22 G 18103318.22 18103318.39 18103318.58 0.0089 0.0039

Neptune 44853-05-05 01:12 G 18103406.37 18103406.55 18103406.75 0.0089 0.0028

Neptune 44853-08-01 05:02 G 18103494.52 18103494.71 18103494.91 0.0089 0.0016

Neptune 44853-10-28 08:53 G 18103582.67 18103582.87 18103583.07 0.0089 0.0005

Neptune 44854-01-24 12:43 G 18103670.83 18103671.03 18103671.23 0.0089 0.0007

Neptune 44854-04-22 16:19 G 18103758.99 18103759.18 18103759.38 0.0089 0.0019

Uranus 44854-07-19 08:38 G 18103846.76 18103846.86 18103846.99 0.0137 0.0111

Neptune 44854-07-19 20:10 G 18103847.16 18103847.34 18103847.53 0.0089 0.0030

Uranus 44854-10-15 16:34 G 18103935.05 18103935.19 18103935.36 0.0137 0.0082

Neptune 44854-10-15 23:46 G 18103935.33 18103935.49 18103935.68 0.0089 0.0042 *

Saturn 44855-01-09 21:50 G 18104021.29 18104021.41 18104021.52 0.0266 0.0211

Uranus 44855-01-12 00:29 G 18104023.35 18104023.52 18104023.71 0.0137 0.0053

Neptune 44855-01-12 03:36 G 18104023.50 18104023.65 18104023.82 0.0089 0.0053 *

Saturn 44855-04-08 20:10 G 18104110.15 18104110.34 18104110.53 0.0267 0.0024

Uranus 44855-04-10 08:24 G 18104111.66 18104111.85 18104112.05 0.0136 0.0024

Neptune 44855-04-10 06:58 G 18104111.68 18104111.79 18104111.95 0.0089 0.0065 *

Saturn 44855-07-06 18:29 G 18104199.13 18104199.27 18104199.43 0.0268 0.0166

Neptune 44855-07-07 11:02 G 18104199.87 18104199.96 18104200.07 0.0089 0.0076

Uranus 44855-07-07 16:19 G 18104199.98 18104200.18 18104200.38 0.0136 0.0005 *

Neptune 44855-10-03 14:53 G 18104288.10 18104288.12 18104288.16 0.0089 0.0087

Uranus 44855-10-04 00:00 G 18104288.31 18104288.50 18104288.69 0.0136 0.0034

Jupiter 44855-12-26 06:29 G 18104371.65 18104371.77 18104371.89 0.0508 0.0389

Uranus 44855-12-31 07:41 G 18104376.65 18104376.82 18104377.00 0.0136 0.0062

Jupiter 44856-03-25 21:36 G 18104462.37 18104462.40 18104462.43 0.0510 0.0500

Uranus 44856-03-28 15:22 G 18104465.00 18104465.14 18104465.29 0.0136 0.0090

Uranus 44856-06-24 23:02 G 18104553.37 18104553.46 18104553.56 0.0136 0.0118

Mars 44859-08-07 18:14 G 18105692.12 18105692.26 18105692.40 0.1602 0.0904

Jupiter 44861-08-23 12:43 G 18106438.95 18106439.03 18106439.12 0.0518 0.0385

Jupiter 44861-11-20 16:34 G 18106528.08 18106528.19 18106528.31 0.0516 0.0206

Earth 44862-03-30 19:41 G 18106658.21 18106658.32 18106658.44 0.2677 0.1959

Moon 44862-03-30 20:24 G 18106658.25 18106658.35 18106658.44 0.2684 0.2141 *

Moon 44865-09-26 20:38 G 18107934.26 18107934.36 18107934.47 0.2657 0.0519

Earth 44865-09-26 21:22 G 18107934.28 18107934.39 18107934.49 0.2654 0.0659 *

Mars 44866-03-22 19:55 G 18108111.25 18108111.33 18108111.41 0.1931 0.1330

Jupiter 44868-01-12 18:14 G 18108772.11 18108772.26 18108772.41 0.0510 0.0291

Saturn 44868-05-22 05:02 G 18108902.68 18108902.71 18108902.76 0.0297 0.0278

Saturn 44868-08-18 17:02 G 18108991.09 18108991.21 18108991.33 0.0296 0.0109

Saturn 44868-11-15 04:48 G 18109079.57 18109079.70 18109079.82 0.0295 0.0058

Mars 44868-12-27 19:26 G 18109122.15 18109122.31 18109122.47 0.1604 0.0525

Saturn 44869-02-11 16:19 G 18109168.10 18109168.18 18109168.27 0.0294 0.0223

Jupiter 44873-09-08 21:22 G 18110838.26 18110838.39 18110838.51 0.0516 0.0059

Mars 44875-08-13 04:19 G 18111541.57 18111541.68 18111541.79 0.1928 0.0140

Venus 44876-09-19 22:34 G 18111945.28 18111945.44 18111945.59 0.3681 0.0672

Moon 44878-09-29 14:10 G 18112685.02 18112685.09 18112685.16 0.2661 0.1913

Earth 44878-09-29 14:10 G 18112685.02 18112685.09 18112685.17 0.2654 0.1864 *

Jupiter 44879-10-31 14:24 G 18113081.91 18113082.10 18113082.28 0.0509 0.0073

Saturn 44884-08-25 18:14 G 18114842.07 18114842.26 18114842.44 0.0267 0.0084

Saturn 44884-11-22 16:34 G 18114931.02 18114931.19 18114931.37 0.0268 0.0106

Mars 44885-01-02 12:58 G 18114971.97 18114972.04 18114972.10 0.1925 0.1562

Jupiter 44885-06-28 01:55 G 18115148.46 18115148.58 18115148.71 0.0517 0.0091

Moon 44885-09-22 15:36 G 18115235.07 18115235.15 18115235.24 0.2650 0.1620

Earth 44885-09-22 16:05 G 18115235.08 18115235.17 18115235.25 0.2656 0.1552 *

Jupiter 44885-09-25 05:46 G 18115237.71 18115237.74 18115237.77 0.0515 0.0497

Venus 44890-07-22 08:38 G 18116998.79 18116998.86 18116998.93 0.3690 0.2674

Jupiter 44891-08-19 10:05 G 18117391.74 18117391.92 18117392.10 0.0508 0.0149

Moon 44895-03-28 16:05 G 18118709.01 18118709.17 18118709.33 0.2683 0.0640

Earth 44895-03-28 16:34 G 18118709.03 18118709.19 18118709.35 0.2677 0.0640 *

Venus 44896-02-05 00:00 G 18119022.40 18119022.50 18119022.59 0.3690 0.0585

Jupiter 44897-04-16 07:12 G 18119458.68 18119458.80 18119458.91 0.0518 0.0230

Jupiter 44897-07-14 10:48 G 18119547.86 18119547.95 18119548.04 0.0516 0.0359

Saturn 44898-01-05 18:43 G 18119723.18 18119723.28 18119723.39 0.0296 0.0163

Uranus 44898-01-06 01:12 G 18119723.49 18119723.55 18119723.62 0.0141 0.0122

Uranus 44898-04-04 04:34 G 18119811.60 18119811.69 18119811.78 0.0141 0.0102

Saturn 44898-04-04 06:29 G 18119811.65 18119811.77 18119811.90 0.0295 0.0009 *

Uranus 44898-07-01 07:55 G 18119899.73 18119899.83 18119899.94 0.0142 0.0081

Saturn 44898-07-01 18:14 G 18119900.16 18119900.26 18119900.36 0.0294 0.0170

Moon 44898-09-25 08:24 G 18119985.74 18119985.85 18119985.95 0.2655 0.0428

Earth 44898-09-25 08:53 G 18119985.77 18119985.87 18119985.98 0.2655 0.0344 *

Uranus 44898-09-27 11:17 G 18119987.85 18119987.97 18119988.09 0.0142 0.0059

Uranus 44898-12-24 14:38 G 18120075.99 18120076.11 18120076.24 0.0142 0.0038

Mars 44899-02-05 18:58 G 18120119.17 18120119.29 18120119.41 0.1602 0.1118

Uranus 44899-03-22 18:00 G 18120164.12 18120164.25 18120164.38 0.0142 0.0017

Uranus 44899-06-18 21:22 G 18120252.26 18120252.39 18120252.52 0.0142 0.0005

Uranus 44899-09-15 00:43 G 18120340.40 18120340.53 18120340.66 0.0142 0.0026

Uranus 44899-12-12 04:05 G 18120428.55 18120428.67 18120428.80 0.0142 0.0047

Uranus 44900-03-10 07:26 G 18120516.70 18120516.81 18120516.93 0.0142 0.0069

Uranus 44900-06-06 10:48 G 18120604.86 18120604.95 18120605.06 0.0142 0.0091

Uranus 44900-09-02 14:10 G 18120693.02 18120693.09 18120693.18 0.0142 0.0113

Uranus 44900-11-29 17:46 G 18120781.20 18120781.24 18120781.29 0.0142 0.0134

Venus 44901-08-21 15:07 G 18121046.04 18121046.13 18121046.22 0.3689 0.1564

Jupiter 44903-06-08 04:34 G 18121701.57 18121701.69 18121701.81 0.0508 0.0388

Jupiter 44903-09-06 19:26 G 18121792.28 18121792.31 18121792.35 0.0510 0.0501

Mars 44905-09-21 19:41 G 18122538.25 18122538.32 18122538.40 0.1931 0.1472

Earth 44908-04-01 02:53 G 18123460.57 18123460.62 18123460.67 0.2678 0.2545

Moon 44908-04-01 03:50 G 18123460.62 18123460.66 18123460.71 0.2684 0.2572 *

Mars 44908-06-28 20:10 G 18123549.17 18123549.34 18123549.51 0.1605 0.0306

Jupiter 44909-02-03 12:00 G 18123768.92 18123769.00 18123769.09 0.0518 0.0371

Jupiter 44909-05-03 15:50 G 18123858.05 18123858.16 18123858.28 0.0516 0.0221

Moon 44911-09-29 01:26 G 18124736.46 18124736.56 18124736.66 0.2658 0.0857

Earth 44911-09-29 01:55 G 18124736.48 18124736.58 18124736.68 0.2654 0.0891 *

Saturn 44914-01-13 16:48 G 18125574.05 18125574.20 18125574.38 0.0266 0.0137

Saturn 44914-04-12 15:22 G 18125662.95 18125663.14 18125663.33 0.0267 0.0053

Saturn 44914-07-10 13:41 G 18125752.00 18125752.07 18125752.16 0.0268 0.0243

Mars 44915-02-12 04:19 G 18125968.57 18125968.68 18125968.79 0.1928 0.0042

Jupiter 44915-06-25 15:36 G 18126102.00 18126102.15 18126102.31 0.0510 0.0286

Moon 44918-09-22 03:36 G 18127286.63 18127286.65 18127286.67 0.2650 0.2593

Earth 44918-09-22 03:36 G 18127286.63 18127286.65 18127286.68 0.2657 0.2536 *

Jupiter 44921-02-19 20:24 G 18128168.23 18128168.35 18128168.47 0.0516 0.0069

Mars 44924-07-04 12:43 G 18129398.96 18129399.03 18129399.11 0.1925 0.1400

Moon 44924-09-30 18:58 G 18129487.22 18129487.29 18129487.35 0.2661 0.2051

Earth 44924-09-30 18:58 G 18129487.23 18129487.29 18129487.35 0.2653 0.2101 *

Jupiter 44927-04-13 12:14 G 18130411.83 18130412.01 18130412.20 0.0509 0.0076

Saturn 44927-05-26 20:24 G 18130455.27 18130455.35 18130455.43 0.0297 0.0221

Saturn 44927-08-23 08:10 G 18130543.71 18130543.84 18130543.97 0.0296 0.0053

Saturn 44927-11-19 19:55 G 18130632.21 18130632.33 18130632.45 0.0295 0.0113

Saturn 44928-02-16 07:26 G 18130720.77 18130720.81 18130720.85 0.0294 0.0277

Moon 44931-09-24 20:10 G 18132037.25 18132037.34 18132037.43 0.2652 0.1335

Earth 44931-09-24 20:38 G 18132037.27 18132037.36 18132037.46 0.2656 0.1313 *

Neptune 44932-06-16 02:24 G 18132302.56 18132302.60 18132302.64 0.0089 0.0084

Neptune 44932-09-12 03:22 G 18132390.59 18132390.64 18132390.72 0.0089 0.0077

Jupiter 44932-12-09 00:58 G 18132478.42 18132478.54 18132478.67 0.0517 0.0080

Neptune 44932-12-09 04:48 G 18132478.63 18132478.70 18132478.79 0.0089 0.0069 *

Neptune 44933-03-07 06:00 G 18132566.67 18132566.75 18132566.85 0.0089 0.0062

Jupiter 44933-03-08 04:34 G 18132567.68 18132567.69 18132567.72 0.0515 0.0506

Venus 44933-04-28 00:58 G 18132618.47 18132618.54 18132618.62 0.3681 0.3209

Neptune 44933-06-03 07:26 G 18132654.71 18132654.81 18132654.92 0.0089 0.0054

Neptune 44933-08-30 08:38 G 18132742.75 18132742.86 18132742.98 0.0089 0.0046

Neptune 44933-11-26 09:50 G 18132830.80 18132830.91 18132831.03 0.0089 0.0039

Neptune 44934-02-22 11:02 G 18132918.85 18132918.96 18132919.09 0.0089 0.0032

Neptune 44934-05-21 12:29 G 18133006.90 18133007.02 18133007.15 0.0089 0.0024

Neptune 44934-08-17 13:41 G 18133094.95 18133095.07 18133095.20 0.0089 0.0016

Neptune 44934-11-13 15:07 G 18133183.00 18133183.13 18133183.26 0.0089 0.0009

Neptune 44935-02-09 16:19 G 18133271.05 18133271.18 18133271.31 0.0089 0.0001

Neptune 44935-05-08 17:31 G 18133359.10 18133359.23 18133359.36 0.0089 0.0007

Neptune 44935-08-04 18:43 G 18133447.16 18133447.28 18133447.41 0.0089 0.0014

Neptune 44935-10-31 20:10 G 18133535.21 18133535.34 18133535.46 0.0089 0.0022

Neptune 44936-01-27 21:07 G 18133623.27 18133623.38 18133623.51 0.0089 0.0030

Neptune 44936-04-24 22:34 G 18133711.32 18133711.44 18133711.56 0.0089 0.0037

Neptune 44936-07-21 23:46 G 18133799.38 18133799.49 18133799.61 0.0089 0.0044

Neptune 44936-10-18 00:58 G 18133887.44 18133887.54 18133887.65 0.0089 0.0052

Neptune 44937-01-14 02:10 G 18133975.50 18133975.59 18133975.69 0.0089 0.0060

Neptune 44937-04-12 03:36 G 18134063.57 18134063.65 18134063.73 0.0089 0.0067

Neptune 44937-07-09 04:34 G 18134151.63 18134151.69 18134151.77 0.0089 0.0075

Neptune 44937-10-05 05:46 G 18134239.71 18134239.74 18134239.80 0.0089 0.0083

Uranus 44938-05-13 09:07 G 18134459.83 18134459.88 18134459.97 0.0137 0.0128

Mars 44938-08-07 19:26 G 18134546.22 18134546.31 18134546.41 0.1602 0.1343

Uranus 44938-08-09 17:17 G 18134548.09 18134548.22 18134548.36 0.0137 0.0099

Uranus 44938-11-06 01:12 G 18134636.39 18134636.55 18134636.72 0.0137 0.0070

Jupiter 44939-01-30 08:24 G 18134721.67 18134721.85 18134722.03 0.0508 0.0144

Uranus 44939-02-02 09:07 G 18134724.69 18134724.88 18134725.07 0.0136 0.0041

Uranus 44939-05-01 16:48 G 18134813.01 18134813.20 18134813.40 0.0136 0.0013

Uranus 44939-07-29 00:43 G 18134901.33 18134901.53 18134901.72 0.0136 0.0016

Uranus 44939-10-25 08:24 G 18134989.67 18134989.85 18134990.04 0.0136 0.0045

Uranus 44940-01-21 16:05 G 18135078.01 18135078.17 18135078.34 0.0136 0.0073

Uranus 44940-04-19 00:00 G 18135166.37 18135166.50 18135166.62 0.0136 0.0102

Uranus 44940-07-16 07:12 G 18135254.76 18135254.80 18135254.87 0.0136 0.0130

Moon 44941-03-29 23:31 G 18135511.32 18135511.48 18135511.64 0.2683 0.0128

Earth 44941-03-29 23:46 G 18135511.32 18135511.49 18135511.65 0.2677 0.0074 *

Saturn 44943-06-02 15:36 G 18136306.02 18136306.15 18136306.29 0.0267 0.0191

Saturn 44943-08-30 14:10 G 18136394.90 18136395.09 18136395.28 0.0267 0.0002

Saturn 44943-11-27 12:29 G 18136483.89 18136484.02 18136484.16 0.0268 0.0188

Moon 44944-09-26 12:58 G 18136787.94 18136788.04 18136788.15 0.2655 0.0208

Earth 44944-09-26 13:41 G 18136787.96 18136788.07 18136788.18 0.2655 0.0093 *

Jupiter 44944-09-27 05:31 G 18136788.62 18136788.73 18136788.85 0.0518 0.0231

Jupiter 44944-12-25 09:22 G 18136877.80 18136877.89 18136877.98 0.0516 0.0358

Mars 44945-03-22 19:41 G 18136965.27 18136965.32 18136965.38 0.1931 0.1648

Venus 44947-02-27 06:00 G 18137671.66 18137671.75 18137671.83 0.3690 0.1910

Mars 44947-12-28 20:53 G 18137976.20 18137976.37 18137976.54 0.1605 0.0080

Jupiter 44950-11-18 04:05 G 18139031.54 18139031.67 18139031.80 0.0508 0.0365

Venus 44952-09-11 21:07 G 18139695.28 18139695.38 18139695.48 0.3689 0.0245

Mars 44954-08-13 04:05 G 18140395.56 18140395.67 18140395.79 0.1928 0.0212

Jupiter 44956-07-16 10:34 G 18141098.86 18141098.94 18141099.03 0.0518 0.0372

Saturn 44956-10-12 22:34 G 18141187.39 18141187.44 18141187.49 0.0296 0.0270

Jupiter 44956-10-13 14:24 G 18141187.99 18141188.10 18141188.22 0.0516 0.0220

Saturn 44957-01-09 10:19 G 18141275.81 18141275.93 18141276.05 0.0295 0.0102

Saturn 44957-04-07 22:05 G 18141364.30 18141364.42 18141364.55 0.0294 0.0065

Mars 44957-05-19 22:05 G 18141406.36 18141406.42 18141406.47 0.1607 0.1515

Saturn 44957-07-05 09:36 G 18141452.83 18141452.90 18141452.98 0.0293 0.0230

Moon 44957-09-29 06:14 G 18141538.67 18141538.76 18141538.86 0.2660 0.1078

Earth 44957-09-29 06:43 G 18141538.68 18141538.78 18141538.88 0.2654 0.1129 *

Venus 44958-03-28 12:29 G 18141718.94 18141719.02 18141719.10 0.3689 0.2346

Pluto 44959-11-26 01:41 G 18142326.51 18142326.57 18142326.64 0.0068 0.0059

Pluto 44960-02-22 02:10 G 18142414.51 18142414.59 18142414.69 0.0068 0.0049

Pluto 44960-05-20 02:53 G 18142502.51 18142502.62 18142502.73 0.0068 0.0039

Pluto 44960-08-16 03:07 G 18142590.52 18142590.63 18142590.76 0.0068 0.0029

Pluto 44960-11-12 03:50 G 18142678.53 18142678.66 18142678.79 0.0068 0.0018

Pluto 44961-02-08 04:19 G 18142766.55 18142766.68 18142766.82 0.0069 0.0008

Pluto 44961-05-07 05:02 G 18142854.58 18142854.71 18142854.84 0.0069 0.0003

Pluto 44961-08-03 05:31 G 18142942.60 18142942.73 18142942.86 0.0069 0.0014

Pluto 44961-10-30 06:00 G 18143030.63 18143030.75 18143030.88 0.0069 0.0025

Pluto 44962-01-26 06:29 G 18143118.66 18143118.77 18143118.89 0.0069 0.0035

Pluto 44962-04-24 06:58 G 18143206.70 18143206.79 18143206.90 0.0069 0.0046

Pluto 44962-07-21 07:26 G 18143294.75 18143294.81 18143294.90 0.0069 0.0057

Pluto 44962-10-17 08:24 G 18143382.82 18143382.85 18143382.87 0.0069 0.0068

Jupiter 44962-12-05 13:12 G 18143431.90 18143432.05 18143432.21 0.0509 0.0281

Mars 44964-01-03 12:43 G 18143825.94 18143826.03 18143826.11 0.1925 0.1248

Moon 44964-09-22 08:24 G 18144088.79 18144088.85 18144088.90 0.2650 0.2248

Earth 44964-09-22 08:24 G 18144088.80 18144088.85 18144088.90 0.2657 0.2296 *

Jupiter 44968-05-04 15:36 G 18145409.14 18145409.15 18145409.16 0.0519 0.0514

Jupiter 44968-08-01 19:26 G 18145498.19 18145498.31 18145498.43 0.0517 0.0079

Moon 44970-10-01 23:46 G 18146289.44 18146289.49 18146289.53 0.2660 0.2392

Earth 44970-10-01 23:46 G 18146289.44 18146289.49 18146289.53 0.2653 0.2341 *

Saturn 44972-10-19 15:07 G 18147038.05 18147038.13 18147038.22 0.0266 0.0237

Saturn 44973-01-16 13:41 G 18147126.88 18147127.07 18147127.26 0.0267 0.0050

Saturn 44973-04-15 12:14 G 18147215.84 18147216.01 18147216.17 0.0268 0.0140

Earth 44974-03-27 20:24 G 18147562.34 18147562.35 18147562.37 0.2676 0.2657

Jupiter 44974-09-23 09:22 G 18147741.71 18147741.89 18147742.08 0.0509 0.0064

Moon 44977-09-25 00:43 G 18148839.44 18148839.53 18148839.63 0.2653 0.1209

Earth 44977-09-25 01:26 G 18148839.46 18148839.56 18148839.66 0.2656 0.1069 *

Mars 44978-02-05 20:24 G 18148973.32 18148973.35 18148973.38 0.1603 0.1573

Jupiter 44980-05-21 00:00 G 18149808.37 18149808.50 18149808.62 0.0517 0.0076

Jupiter 44980-08-18 03:36 G 18149897.64 18149897.65 18149897.66 0.0515 0.0511

Uranus 44981-10-31 05:46 G 18150336.71 18150336.74 18150336.77 0.0141 0.0136

Uranus 44982-01-27 09:07 G 18150424.80 18150424.88 18150424.95 0.0141 0.0115

Uranus 44982-04-25 12:29 G 18150512.92 18150513.02 18150513.11 0.0142 0.0094

Uranus 44982-07-22 15:50 G 18150601.04 18150601.16 18150601.27 0.0142 0.0073

Uranus 44982-10-18 18:58 G 18150689.17 18150689.29 18150689.42 0.0142 0.0052

Uranus 44983-01-14 22:19 G 18150777.31 18150777.43 18150777.56 0.0142 0.0031

Uranus 44983-04-13 01:41 G 18150865.44 18150865.57 18150865.70 0.0142 0.0010

Uranus 44983-07-10 05:02 G 18150953.58 18150953.71 18150953.84 0.0142 0.0013

Uranus	44983-10-06 08:24 G	18151041.73	18151041.85	18151041.98	0.0142	0.0034
Uranus	44984-01-02 11:46 G	18151129.88	18151129.99	18151130.12	0.0142	0.0055
Uranus	44984-03-30 15:22 G	18151218.03	18151218.14	18151218.25	0.0142	0.0076
Venus	44984-05-18 16:48 G	18151267.07	18151267.20	18151267.34	0.3681	0.1987
Uranus	44984-06-26 18:29 G	18151306.19	18151306.27	18151306.37	0.0142	0.0099
Mars	44984-09-20 19:55 G	18151392.29	18151392.33	18151392.36	0.1931	0.1822
Uranus	44984-09-22 22:05 G	18151394.36	18151394.42	18151394.49	0.0142	0.0120
Uranus	44984-12-20 01:26 G	18151482.56	18151482.56	18151482.58	0.0143	0.0142
Saturn	44986-05-29 12:29 G	18152007.91	18152008.02	18152008.12	0.0296	0.0155
Jupiter	44986-07-12 06:00 G	18152051.57	18152051.75	18152051.93	0.0509	0.0149
Saturn	44986-08-26 00:00 G	18152096.38	18152096.50	18152096.63	0.0295	0.0017
Saturn	44986-11-22 11:46 G	18152184.89	18152184.99	18152185.09	0.0294	0.0179
Earth	44987-03-31 06:43 G	18152313.62	18152313.78	18152313.94	0.2677	0.0503
Moon	44987-03-31 06:58 G	18152313.63	18152313.79	18152313.95	0.2683	0.0523 *
Mars	44987-06-28 21:36 G	18152403.23	18152403.40	18152403.57	0.1604	0.0146
Moon	44990-09-27 17:46 G	18153590.13	18153590.24	18153590.35	0.2656	0.0092
Earth	44990-09-27 18:29 G	18153590.16	18153590.27	18153590.37	0.2655	0.0161 *
Jupiter	44992-03-09 04:19 G	18154118.57	18154118.68	18154118.80	0.0517	0.0226
Jupiter	44992-06-06 08:10 G	18154207.75	18154207.84	18154207.93	0.0516	0.0363
Mars	44994-02-11 04:05 G	18154822.56	18154822.67	18154822.78	0.1928	0.0365
Mars	44996-11-17 22:48 G	18155833.35	18155833.45	18155833.55	0.1607	0.1290
Venus	44998-03-20 12:00 G	18156320.96	18156321.00	18156321.05	0.3690	0.3254
Jupiter	44998-04-30 01:55 G	18156361.45	18156361.58	18156361.71	0.0508	0.0367

46TH MILLENNIUM CE

This is a list of transits of Mercury in the 46th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	**45002-06-06 12:43**	**G**	**18157858.86**	**18157859.03**	**18157859.21**	**0.0267**	**0.0101**	
Saturn	**45002-09-03 11:17**	**G**	**18157947.79**	**18157947.97**	**18157948.15**	**0.0268**	**0.0089**	
Mars	**45003-07-05 12:43**	**G**	**18158252.93**	**18158253.03**	**18158253.12**	**0.1925**	**0.1078**	
Moon	**45003-10-01 11:02**	**G**	**18158340.87**	**18158340.96**	**18158341.05**	**0.2660**	**0.1320**	
Earth	**45003-10-01 11:31**	**G**	**18158340.88**	**18158340.98**	**18158341.07**	**0.2654**	**0.1369**	*****
Venus	**45003-10-05 03:22**	**G**	**18158344.54**	**18158344.64**	**18158344.73**	**0.3690**	**0.1140**	
Jupiter	**45003-12-28 08:53**	**G**	**18158428.79**	**18158428.87**	**18158428.96**	**0.0518**	**0.0378**	
Jupiter	**45004-03-26 12:43**	**G**	**18158517.92**	**18158518.03**	**18158518.14**	**0.0516**	**0.0213**	
Venus	**45009-04-19 18:29**	**G**	**18160368.18**	**18160368.27**	**18160368.37**	**0.3689**	**0.0991**	
Jupiter	**45010-05-18 12:14**	**G**	**18160761.86**	**18160762.01**	**18160762.17**	**0.0509**	**0.0296**	
Moon	**45010-09-24 12:58**	**G**	**18160890.98**	**18160891.04**	**18160891.10**	**0.2650**	**0.2124**	
Earth	**45010-09-24 13:12**	**G**	**18160890.98**	**18160891.05**	**18160891.11**	**0.2656**	**0.2051**	*****
Venus	**45014-11-03 09:50**	**G**	**18162391.86**	**18162391.91**	**18162391.96**	**0.3689**	**0.3135**	
Saturn	**45015-10-17 15:07**	**G**	**18162740.03**	**18162740.13**	**18162740.22**	**0.0296**	**0.0196**	
Jupiter	**45016-01-13 17:46**	**G**	**18162828.11**	**18162828.24**	**18162828.36**	**0.0517**	**0.0073**	
Saturn	**45016-01-14 02:53**	**G**	**18162828.49**	**18162828.62**	**18162828.74**	**0.0295**	**0.0030**	
Saturn	**45016-04-11 14:24**	**G**	**18162916.99**	**18162917.10**	**18162917.22**	**0.0294**	**0.0137**	
Earth	**45016-10-03 04:19**	**G**	**18163091.66**	**18163091.68**	**18163091.70**	**0.2653**	**0.2576**	
Moon	**45016-10-03 04:34**	**G**	**18163091.67**	**18163091.69**	**18163091.71**	**0.2659**	**0.2588**	*****
Neptune	**45016-11-17 03:36**	**G**	**18163136.59**	**18163136.65**	**18163136.72**	**0.0089**	**0.0083**	
Neptune	**45017-02-13 07:12**	**G**	**18163224.70**	**18163224.80**	**18163224.93**	**0.0089**	**0.0072**	
Neptune	**45017-05-12 10:48**	**G**	**18163312.83**	**18163312.95**	**18163313.11**	**0.0089**	**0.0061**	
Neptune	**45017-08-08 14:53**	**G**	**18163400.96**	**18163401.12**	**18163401.29**	**0.0089**	**0.0049**	
Neptune	**45017-11-04 18:29**	**G**	**18163489.10**	**18163489.27**	**18163489.46**	**0.0089**	**0.0038**	
Neptune	**45018-01-31 22:34**	**G**	**18163577.25**	**18163577.44**	**18163577.63**	**0.0089**	**0.0026**	
Neptune	**45018-04-30 02:10**	**G**	**18163665.40**	**18163665.59**	**18163665.79**	**0.0089**	**0.0015**	

Neptune 45018-07-27 06:00 G 18163753.56 18163753.75 18163753.95 0.0089 0.0004

Neptune 45018-10-23 09:50 G 18163841.71 18163841.91 18163842.11 0.0089 0.0008

Neptune 45019-01-19 13:41 G 18163929.88 18163930.07 18163930.26 0.0089 0.0020

Neptune 45019-04-17 17:02 G 18164018.04 18164018.21 18164018.41 0.0089 0.0032

Neptune 45019-07-14 20:53 G 18164106.21 18164106.37 18164106.56 0.0089 0.0043

Neptune 45019-10-11 00:58 G 18164194.38 18164194.54 18164194.70 0.0089 0.0054

Neptune 45020-01-07 04:19 G 18164282.56 18164282.68 18164282.83 0.0089 0.0066

Moon 45020-03-29 02:38 G 18164364.53 18164364.61 18164364.69 0.2682 0.2289

Earth 45020-03-29 03:36 G 18164364.55 18164364.65 18164364.75 0.2676 0.2078 *

Neptune 45020-04-04 08:10 G 18164370.76 18164370.84 18164370.95 0.0089 0.0077

Neptune 45020-07-01 12:00 G 18164459.00 18164459.00 18164459.02 0.0089 0.0089

Jupiter 45022-03-06 06:43 G 18165071.59 18165071.78 18165071.96 0.0509 0.0053

Uranus 45022-06-03 18:14 G 18165161.16 18165161.26 18165161.37 0.0137 0.0115

Uranus 45022-08-31 02:10 G 18165249.44 18165249.59 18165249.74 0.0137 0.0086

Uranus 45022-11-27 09:50 G 18165337.74 18165337.91 18165338.10 0.0137 0.0057

Uranus 45023-02-23 17:46 G 18165426.05 18165426.24 18165426.43 0.0136 0.0028

Uranus 45023-05-23 01:41 G 18165514.37 18165514.57 18165514.76 0.0136 0.0002

Uranus 45023-08-19 09:07 G 18165602.70 18165602.88 18165603.08 0.0136 0.0030

Moon 45023-09-27 05:31 G 18165641.63 18165641.73 18165641.83 0.2653 0.0856

Earth 45023-09-27 06:14 G 18165641.65 18165641.76 18165641.86 0.2656 0.0835 *

Uranus 45023-11-15 17:02 G 18165691.04 18165691.21 18165691.39 0.0136 0.0057

Uranus 45024-02-12 00:43 G 18165779.38 18165779.53 18165779.69 0.0136 0.0085

Uranus 45024-05-10 08:10 G 18165867.75 18165867.84 18165867.96 0.0136 0.0114

Mars 45026-12-28 22:19 G 18166830.26 18166830.43 18166830.60 0.1605 0.0368

Jupiter 45027-11-01 22:34 G 18167138.32 18167138.44 18167138.57 0.0517 0.0072

Saturn 45031-10-24 12:58 G 18168590.88 18168591.04 18168591.20 0.0267 0.0143

Saturn 45032-01-21 11:31 G 18168679.79 18168679.98 18168680.17 0.0267 0.0047

Saturn 45032-04-19 09:50 G 18168768.83 18168768.91 18168769.00 0.0268 0.0237

Earth 45033-04-01 13:41 G 18169115.92 18169116.07 18169116.23 0.2677 0.1085

Moon 45033-04-01 14:24 G 18169115.95 18169116.10 18169116.24 0.2684 0.1203 *

Mars 45033-08-13 04:05 G 18169249.56 18169249.67 18169249.78 0.1928 0.0529

Jupiter 45033-12-23 02:38 G 18169381.43 18169381.61 18169381.79 0.0508 0.0166

Mars 45036-05-19 23:31 G 18170260.35 18170260.48 18170260.61 0.1607 0.1059

Moon 45036-09-28 22:34 G 18170392.33 18170392.44 18170392.55 0.2657 0.0268

Earth 45036-09-28 23:02 G 18170392.36 18170392.46 18170392.57 0.2655 0.0407 *

Jupiter 45039-08-21 02:53 G 18171448.51 18171448.62 18171448.74 0.0518 0.0226

Jupiter 45039-11-18 06:43 G 18171537.69 18171537.78 18171537.87 0.0516 0.0364

Venus 45040-12-24 19:26 G 18171940.15 18171940.31 18171940.47 0.3681 0.0572

Mars 45043-01-03 12:43 G 18172679.93 18172680.03 18172680.13 0.1925 0.0907

Saturn 45045-03-05 17:31 G 18173472.16 18173472.23 18173472.30 0.0297 0.0243

Saturn 45045-06-02 05:17 G 18173560.60 18173560.72 18173560.84 0.0296 0.0075

Saturn 45045-08-29 17:02 G 18173649.08 18173649.21 18173649.33 0.0295 0.0092

Jupiter 45045-10-10 22:48 G 18173691.33 18173691.45 18173691.58 0.0508 0.0379

Saturn 45045-11-26 04:34 G 18173737.63 18173737.69 18173737.75 0.0294 0.0256

Pluto 45046-06-22 22:19 G 18173946.32 18173946.43 18173946.55 0.0075 0.0060

Pluto 45046-09-19 00:43 G 18174034.38 18174034.53 18174034.70 0.0075 0.0040

Pluto 45046-12-16 03:22 G 18174122.46 18174122.64 18174122.83 0.0075 0.0019

Pluto 45047-03-14 06:00 G 18174210.55 18174210.75 18174210.94 0.0075 0.0001

Pluto 45047-06-10 08:10 G 18174298.66 18174298.84 18174299.04 0.0075 0.0021

Pluto 45047-09-06 10:34 G 18174386.79 18174386.94 18174387.11 0.0075 0.0041

Pluto 45047-12-03 12:58 G 18174474.94 18174475.04 18174475.17 0.0075 0.0061

Moon 45049-10-01 15:50 G 18175143.08 18175143.16 18175143.24 0.2660 0.1595

Earth 45049-10-01 16:05 G 18175143.09 18175143.17 18175143.26 0.2654 0.1605 *

Jupiter 45051-06-09 07:26 G 18175758.73 18175758.81 18175758.90 0.0518 0.0377

Jupiter 45051-09-06 11:17 G 18175847.86 18175847.97 18175848.08 0.0516 0.0214

Venus 45054-10-26 09:22 G 18176993.82 18176993.89 18176993.97 0.3690 0.2486

Moon 45056-09-24 17:31 G 18177693.15 18177693.23 18177693.31 0.2651 0.1816

Earth 45056-09-24 17:46 G 18177693.17 18177693.24 18177693.32 0.2656 0.1811 *

Jupiter 45057-10-28 09:50 G 18178091.75 18178091.91 18178092.06 0.0509 0.0288

Venus 45060-05-11 00:43 G 18179017.43 18179017.53 18179017.63 0.3689 0.0376

Saturn 45061-03-12 12:29 G 18179322.90 18179323.02 18179323.17 0.0267 0.0189

Saturn 45061-06-09 11:17 G 18179411.77 18179411.97 18179412.16 0.0268 0.0005

Saturn 45061-09-06 09:36 G 18179500.77 18179500.90 18179501.04 0.0268 0.0192

Jupiter 45063-06-25 15:50 G 18180158.03 18180158.16 18180158.28 0.0517 0.0063

Uranus 45065-11-21 12:43 G 18181038.00 18181038.03 18181038.09 0.0141 0.0131

Venus 45065-11-24 15:50 G 18181041.07 18181041.16 18181041.25 0.3689 0.1769

Uranus 45066-02-17 16:05 G 18181126.10 18181126.17 18181126.26 0.0141 0.0111

Moon 45066-03-30 10:05 G 18181166.78 18181166.92 18181167.05 0.2682 0.1490

Earth 45066-03-30 10:34 G 18181166.81 18181166.94 18181167.08 0.2676 0.1516 *

Uranus 45066-05-16 19:26 G 18181214.22 18181214.31 18181214.42 0.0142 0.0090

Mars 45066-06-28 23:02 G 18181257.30 18181257.46 18181257.62 0.1605 0.0589

Uranus 45066-08-12 22:48 G 18181302.34 18181302.45 18181302.57 0.0142 0.0069

Uranus 45066-11-09 02:10 G 18181390.47 18181390.59 18181390.72 0.0142 0.0048

Uranus 45067-02-05 05:31 G 18181478.61 18181478.73 18181478.86 0.0142 0.0026

Uranus 45067-05-04 08:53 G 18181566.74 18181566.87 18181567.01 0.0142 0.0007

Uranus 45067-07-31 12:29 G 18181654.89 18181655.02 18181655.14 0.0142 0.0018

Uranus 45067-10-27 15:50 G 18181743.03 18181743.16 18181743.28 0.0142 0.0038

Uranus 45068-01-23 18:58 G 18181831.18 18181831.29 18181831.42 0.0142 0.0060

Uranus 45068-04-20 22:19 G 18181919.33 18181919.43 18181919.55 0.0142 0.0082

Uranus 45068-07-18 01:55 G 18182007.49 18182007.58 18182007.67 0.0142 0.0103

Uranus 45068-10-14 05:17 G 18182095.66 18182095.72 18182095.78 0.0143 0.0125

Jupiter 45069-08-16 05:17 G 18182401.53 18182401.72 18182401.90 0.0509 0.0062

Moon 45069-09-27 10:19 G 18182443.82 18182443.93 18182444.03 0.2653 0.0737

Earth 45069-09-27 10:48 G 18182443.85 18182443.95 18182444.06 0.2656 0.0590 *

Mars 45073-02-11 04:05 G 18183676.56 18183676.67 18183676.77 0.1928 0.0690

Saturn 45074-07-23 20:24 G 18184204.32 18184204.35 18184204.39 0.0296 0.0281

Saturn 45074-10-20 08:10 G 18184292.73 18184292.84 18184292.96 0.0295 0.0113

Saturn 45075-01-16 19:55 G 18184381.21 18184381.33 18184381.46 0.0294 0.0055

Jupiter 45075-04-13 20:38 G 18184468.24 18184468.36 18184468.48 0.0518 0.0082

Saturn 45075-04-15 07:26 G 18184469.73 18184469.81 18184469.90 0.0293 0.0220

Jupiter 45075-07-12 00:29 G 18184557.50 18184557.52 18184557.54 0.0516 0.0506

Mars 45075-11-19 00:14 G 18184687.36 18184687.51 18184687.65 0.1607 0.0843

Earth 45079-04-02 20:53 G 18185918.24 18185918.37 18185918.50 0.2677 0.1658

Moon 45079-04-02 21:36 G 18185918.27 18185918.40 18185918.52 0.2684 0.1673 *

Jupiter 45081-06-03 23:31 G 18186711.30 18186711.48 18186711.66 0.0508 0.0180

Mars 45082-07-04 12:29 G 18187106.92 18187107.02 18187107.12 0.1925 0.0762

Moon 45082-09-30 03:22 G 18187194.54 18187194.64 18187194.74 0.2659 0.0620

Earth 45082-09-30 03:50 G 18187194.56 18187194.66 18187194.77 0.2655 0.0633 *

Jupiter 45087-01-31 01:26 G 18188778.45 18188778.56 18188778.68 0.0518 0.0227

Jupiter 45087-04-30 05:17 G 18188867.63 18188867.72 18188867.81 0.0516 0.0363

Saturn 45090-07-30 12:58 G 18190054.95 18190055.04 18190055.14 0.0266 0.0229

Saturn 45090-10-27 11:31 G 18190143.79 18190143.98 18190144.17 0.0267 0.0040

Saturn 45091-01-24 10:05 G 18190232.76 18190232.92 18190233.08 0.0268 0.0151

Jupiter 45093-03-22 19:12 G 18191021.19 18191021.30 18191021.42 0.0508 0.0400

Jupiter 45093-06-21 10:05 G 18191111.88 18191111.92 18191111.98 0.0510 0.0488

Moon 45095-10-02 20:38 G 18191945.28 18191945.36 18191945.44 0.2660 0.1789

Earth 45095-10-02 20:53 G 18191945.29 18191945.37 18191945.44 0.2654 0.1843 *

Neptune 45097-03-14 01:41 G 18192473.53 18192473.57 18192473.62 0.0089 0.0083

Neptune 45097-06-10 02:38 G 18192561.56 18192561.61 18192561.69 0.0089 0.0076

Venus 45097-07-31 22:05 G 18192613.34 18192613.42 18192613.50 0.3681 0.3114

Neptune 45097-09-06 04:05 G 18192649.60 18192649.67 18192649.76 0.0089 0.0068

Neptune 45097-12-03 05:17 G 18192737.64 18192737.72 18192737.83 0.0089 0.0061

Neptune 45098-03-01 06:43 G 18192825.68 18192825.78 18192825.89 0.0089 0.0053

Neptune 45098-05-28 07:55 G 18192913.72 18192913.83 18192913.95 0.0089 0.0045

Neptune 45098-08-24 09:07 G 18193001.77 18193001.88 18193002.01 0.0089 0.0038

Jupiter 45098-11-19 05:46 G 18193088.66 18193088.74 18193088.83 0.0518 0.0383

Neptune 45098-11-20 10:34 G 18193089.82 18193089.94 18193090.06 0.0089 0.0030

Jupiter 45099-02-16 09:36 G 18193177.79 18193177.90 18193178.02 0.0516 0.0210

Neptune 45099-02-16 11:46 G 18193177.87 18193177.99 18193178.12 0.0089 0.0023 *

Neptune 45099-05-15 13:12 G 18193265.92 18193266.05 18193266.18 0.0089 0.0015

Neptune 45099-08-11 14:24 G 18193353.97 18193354.10 18193354.23 0.0089 0.0007

Neptune 45099-11-07 15:36 G 18193442.02 18193442.15 18193442.28 0.0089 0.0001

Neptune 45100-02-03 16:48 G 18193530.07 18193530.20 18193530.33 0.0089 0.0008

Neptune 45100-05-02 18:00 G 18193618.13 18193618.25 18193618.38 0.0089 0.0016

Neptune 45100-07-29 19:26 G 18193706.18 18193706.31 18193706.43 0.0089 0.0023

Neptune 45100-10-25 20:38 G 18193794.24 18193794.36 18193794.48 0.0089 0.0031

Neptune 45101-01-21 21:36 G 18193882.29 18193882.40 18193882.53 0.0089 0.0039

Neptune 45101-04-19 23:02 G 18193970.35 18193970.46 18193970.58 0.0089 0.0046

Neptune 45101-07-17 00:14 G 18194058.41 18194058.51 18194058.62 0.0089 0.0053

Neptune 45101-10-13 01:41 G 18194146.48 18194146.57 18194146.66 0.0089 0.0061

Neptune 45102-01-09 02:38 G 18194234.54 18194234.61 18194234.70 0.0089 0.0069

Neptune 45102-04-07 04:05 G 18194322.61 18194322.67 18194322.74 0.0089 0.0076

Neptune 45102-07-04 05:17 G 18194410.69 18194410.72 18194410.77 0.0089 0.0084

Moon 45102-09-26 22:05 G 18194495.34 18194495.42 18194495.50 0.2652 0.1651

Earth 45102-09-26 22:34 G 18194495.36 18194495.44 18194495.53 0.2656 0.1566 *

Saturn 45104-03-09 11:02 G 18195024.86 18195024.96 18195025.08 0.0296 0.0153

Saturn 45104-06-05 23:02 G 18195113.33 18195113.46 18195113.58 0.0295 0.0018

Saturn 45104-09-02 10:34 G 18195201.84 18195201.94 18195202.04 0.0294 0.0180

Jupiter 45105-04-10 06:29 G 18195421.61 18195421.77 18195421.93 0.0509 0.0272

Mars 45105-12-28 23:46 G 18195684.34 18195684.49 18195684.64 0.1604 0.0816

Uranus 45106-03-28 18:58 G 18195774.25 18195774.29 18195774.35 0.0137 0.0132

Uranus 45106-06-25 02:53 G 18195862.50 18195862.62 18195862.76 0.0137 0.0103

Uranus 45106-09-21 10:48 G 18195950.79 18195950.95 18195951.12 0.0137 0.0074

Uranus 45106-12-18 18:43 G 18196039.10 18196039.28 18196039.47 0.0137 0.0045

Uranus 45107-03-17 02:38 G 18196127.41 18196127.61 18196127.80 0.0136 0.0016

Uranus 45107-06-13 10:19 G 18196215.74 18196215.93 18196216.13 0.0136 0.0013

Uranus 45107-09-09 18:00 G 18196304.07 18196304.25 18196304.44 0.0136 0.0041

Uranus 45107-12-07 01:55 G 18196392.41 18196392.58 18196392.75 0.0136 0.0070

Uranus 45108-03-04 09:07 G 18196480.76 18196480.88 18196481.03 0.0136 0.0099

Uranus 45108-05-31 16:48 G 18196569.15 18196569.20 18196569.29 0.0136 0.0126

Jupiter 45110-12-06 14:10 G 18197487.97 18197488.09 18197488.22 0.0517 0.0059

Venus 45111-06-03 06:43 G 18197666.69 18197666.78 18197666.87 0.3690 0.1713

Moon 45112-03-31 17:31 G 18197969.08 18197969.23 18197969.38 0.2683 0.1069

Earth 45112-03-31 17:46 G 18197969.08 18197969.24 18197969.39 0.2676 0.0943 *

Mars 45112-08-13 04:05 G 18198103.56 18198103.67 18198103.77 0.1928 0.0848

Mars 45115-05-21 00:58 G 18199114.38 18199114.54 18199114.69 0.1607 0.0621

Moon 45115-09-29 14:53 G 18199246.02 18199246.12 18199246.23 0.2654 0.0392

Earth 45115-09-29 15:36 G 18199246.04 18199246.15 18199246.26 0.2655 0.0346 *

Venus 45116-12-16 22:05 G 18199690.32 18199690.42 18199690.52 0.3689 0.0436

Jupiter 45117-01-27 02:24 G 18199731.41 18199731.60 18199731.78 0.0509 0.0051

Saturn 45120-03-16 11:31 G 18200875.80 18200875.98 18200876.17 0.0267 0.0083

Saturn 45120-06-13 10:05 G 18200964.75 18200964.92 18200965.10 0.0268 0.0107

Mars 45122-01-03 12:29 G 18201533.91 18201534.02 18201534.13 0.1925 0.0583

Venus 45122-07-02 13:12 G 18201713.98 18201714.05 18201714.12 0.3689 0.2552

Jupiter 45122-09-24 18:29 G 18201798.15 18201798.27 18201798.40 0.0517 0.0097

Jupiter 45122-12-22 22:19 G 18201887.40 18201887.43 18201887.46 0.0515 0.0492

Earth 45125-04-04 03:50 G 18202720.57 18202720.66 18202720.75 0.2677 0.2226

Moon 45125-04-04 04:34 G 18202720.62 18202720.69 18202720.76 0.2684 0.2415 *

Moon 45128-10-01 08:10 G 18203996.74 18203996.84 18203996.94 0.2660 0.0748

Earth 45128-10-01 08:38 G 18203996.76 18203996.86 18203996.96 0.2655 0.0874 *

Jupiter 45128-11-14 21:50 G 18204041.23 18204041.41 18204041.58 0.0508 0.0177

Saturn 45133-07-27 14:38 G 18205757.01 18205757.11 18205757.20 0.0296 0.0186

Saturn 45133-10-24 02:10 G 18205845.47 18205845.59 18205845.72 0.0295 0.0021

Saturn 45134-01-20 13:55 G 18205933.97 18205934.08 18205934.19 0.0294 0.0147

Jupiter 45134-07-13 23:17 G 18206108.36 18206108.47 18206108.58 0.0518 0.0242

Jupiter 45134-10-11 03:07 G 18206197.54 18206197.63 18206197.72 0.0516 0.0349

Moon 45135-09-25 10:19 G 18206546.90 18206546.93 18206546.96 0.2650 0.2535

Earth 45135-09-25 10:19 G 18206546.90 18206546.93 18206546.95 0.2657 0.2552 *

Jupiter 45140-09-02 16:19 G 18208351.07 18208351.18 18208351.28 0.0507 0.0415

Jupiter 45140-12-02 06:58 G 18208441.72 18208441.79 18208441.86 0.0509 0.0471

Moon 45141-10-04 01:26 G 18208747.50 18208747.56 18208747.62 0.2660 0.2135

Earth 45141-10-04 01:26 G 18208747.50 18208747.56 18208747.63 0.2654 0.2082 *

Mars 45145-06-29 00:29 G 18210111.39 18210111.52 18210111.65 0.1605 0.1039

Jupiter 45146-05-02 04:05 G 18210418.59 18210418.67 18210418.75 0.0519 0.0389

Jupiter 45146-07-30 07:55 G 18210507.72 18210507.83 18210507.95 0.0517 0.0205

Venus 45148-08-22 13:41 G 18211261.94 18211262.07 18211262.20 0.3681 0.2157

Moon 45148-09-27 02:53 G 18211297.53 18211297.62 18211297.71 0.2652 0.1388

Earth 45148-09-27 03:22 G 18211297.55 18211297.64 18211297.73 0.2656 0.1326 *

Saturn 45149-08-03 12:14 G 18211607.84 18211608.01 18211608.19 0.0267 0.0121

Saturn 45149-10-31 10:48 G 18211696.77 18211696.95 18211697.14 0.0268 0.0069

Uranus 45149-12-12 20:10 G 18211739.29 18211739.34 18211739.40 0.0141 0.0126

Saturn 45150-01-28 09:22 G 18211785.85 18211785.89 18211785.94 0.0269 0.0261

Uranus 45150-03-10 23:31 G 18211827.40 18211827.48 18211827.57 0.0141 0.0105

Uranus 45150-06-07 02:53 G 18211915.52 18211915.62 18211915.73 0.0142 0.0084

Uranus 45150-09-03 06:14 G 18212003.65 18212003.76 18212003.88 0.0142 0.0063

Uranus 45150-11-30 09:36 G 18212091.78 18212091.90 18212092.03 0.0142 0.0042

Uranus 45151-02-26 12:58 G 18212179.91 18212180.04 18212180.17 0.0142 0.0021

Uranus 45151-05-25 16:19 G 18212268.05 18212268.18 18212268.31 0.0142 0.0001

Uranus 45151-08-21 19:41 G 18212356.19 18212356.32 18212356.45 0.0142 0.0022

Uranus 45151-11-17 23:02 G 18212444.34 18212444.46 18212444.58 0.0142 0.0043

Mars 45152-02-12 04:05 G 18212530.57 18212530.67 18212530.76 0.1928 0.1026

Uranus 45152-02-14 02:24 G 18212532.49 18212532.60 18212532.72 0.0142 0.0065

Uranus 45152-05-12 05:46 G 18212620.64 18212620.74 18212620.85 0.0142 0.0087

Uranus 45152-08-08 09:07 G 18212708.80 18212708.88 18212708.97 0.0142 0.0108

Jupiter 45152-09-20 02:38 G 18212751.45 18212751.61 18212751.78 0.0509 0.0248

Uranus 45152-11-04 12:43 G 18212796.98 18212797.03 18212797.08 0.0143 0.0130

Mars 45154-11-19 01:41 G 18213541.41 18213541.57 18213541.74 0.1607 0.0385

Moon 45158-04-02 00:43 G 18214771.37 18214771.53 18214771.69 0.2684 0.0260

Earth 45158-04-02 00:43 G 18214771.37 18214771.53 18214771.69 0.2676 0.0374 *

Jupiter 45158-05-18 12:14 G 18214817.89 18214818.01 18214818.14 0.0517 0.0053

Mars 45161-07-04 12:29 G 18215960.91 18215961.02 18215961.13 0.1925 0.0424

Moon 45161-09-29 19:41 G 18216048.22 18216048.32 18216048.43 0.2656 0.0228

Earth 45161-09-29 20:24 G 18216048.24 18216048.35 18216048.46 0.2655 0.0114 *

Venus 45162-06-24 12:58 G 18216315.98 18216316.04 18216316.09 0.3690 0.3062

Saturn 45162-12-14 17:31 G 18216489.15 18216489.23 18216489.32 0.0296 0.0224

Saturn 45163-03-13 05:31 G 18216577.60 18216577.73 18216577.85 0.0295 0.0056

Saturn 45163-06-09 17:02 G 18216666.09 18216666.21 18216666.33 0.0294 0.0111

Saturn 45163-09-06 04:34 G 18216754.65 18216754.69 18216754.74 0.0293 0.0275

Jupiter 45164-07-08 22:48 G 18217061.26 18217061.45 18217061.64 0.0509 0.0030

Venus 45168-01-08 04:05 G 18218339.57 18218339.67 18218339.77 0.3690 0.0943

Jupiter 45170-03-06 16:48 G 18219128.08 18219128.20 18219128.33 0.0517 0.0102

Jupiter 45170-06-03 20:38 G 18219217.32 18219217.36 18219217.40 0.0515 0.0486

Mars 45170-11-24 20:53 G 18219391.35 18219391.37 18219391.40 0.1921 0.1853

Venus 45173-07-23 19:12 G 18220363.21 18220363.30 18220363.40 0.3689 0.1191

Moon 45174-10-02 12:43 G 18220798.94 18220799.03 18220799.13 0.2659 0.1114

Earth 45174-10-02 13:12 G 18220798.96 18220799.05 18220799.15 0.2654 0.1114 *

Jupiter 45176-04-26 18:29 G 18221371.10 18221371.27 18221371.45 0.0508 0.0191

Saturn 45178-12-21 12:14 G 18222339.86 18222340.01 18222340.17 0.0267 0.0164

Venus 45179-02-06 10:34 G 18222386.90 18222386.94 18222386.98 0.3689 0.3339

Saturn 45179-03-20 10:48 G 18222428.76 18222428.95 18222429.15 0.0268 0.0026

Saturn 45179-06-17 09:22 G 18222517.78 18222517.89 18222518.01 0.0269 0.0217

Neptune 45181-08-15 00:43 G 18223307.46 18223307.53 18223307.60 0.0089 0.0082

Moon 45181-09-25 14:53 G 18223349.07 18223349.12 18223349.16 0.2651 0.2365

Earth 45181-09-25 14:53 G 18223349.07 18223349.12 18223349.18 0.2657 0.2311 *

Neptune 45181-11-11 04:05 G 18223395.57 18223395.67 18223395.81 0.0089 0.0071

Jupiter 45181-12-23 21:07 G 18223438.28 18223438.38 18223438.49 0.0518 0.0257

Neptune 45182-02-07 07:55 G 18223483.70 18223483.83 18223483.99 0.0089 0.0060

Jupiter 45182-03-23 00:58 G 18223527.45 18223527.54 18223527.64 0.0516 0.0334

Neptune 45182-05-06 11:46 G 18223571.84 18223571.99 18223572.17 0.0089 0.0048

Neptune 45182-08-02 15:36 G 18223659.98 18223660.15 18223660.34 0.0089 0.0037

Neptune 45182-10-29 19:26 G 18223748.13 18223748.31 18223748.51 0.0089 0.0025

Neptune 45183-01-25 23:17 G 18223836.28 18223836.47 18223836.67 0.0089 0.0014

Neptune 45183-04-24 03:07 G 18223924.43 18223924.63 18223924.83 0.0089 0.0002

Neptune 45183-07-21 06:43 G 18224012.59 18224012.78 18224012.98 0.0089 0.0010

Neptune 45183-10-17 10:34 G 18224100.75 18224100.94 18224101.14 0.0089 0.0021

Neptune 45184-01-13 14:10 G 18224188.92 18224189.09 18224189.28 0.0089 0.0033

Neptune 45184-04-10 18:00 G 18224277.09 18224277.25 18224277.43 0.0089 0.0044

Neptune 45184-07-07 21:50 G 18224365.26 18224365.41 18224365.57 0.0089 0.0055

Neptune 45184-10-04 01:12 G 18224453.44 18224453.55 18224453.70 0.0089 0.0067

Mars 45184-12-28 01:12 G 18224538.44 18224538.55 18224538.65 0.1605 0.1262

Neptune 45184-12-31 05:17 G 18224541.64 18224541.72 18224541.82 0.0089 0.0078

Moon 45187-10-05 06:29 G 18225549.71 18225549.77 18225549.82 0.2660 0.2291

Earth 45187-10-05 06:14 G 18225549.71 18225549.76 18225549.81 0.2654 0.2318 *

Jupiter 45188-02-13 14:10 G 18225680.98 18225681.09 18225681.20 0.0507 0.0415

Jupiter 45188-05-14 05:02 G 18225771.64 18225771.71 18225771.78 0.0509 0.0472

Uranus 45190-04-18 02:53 G 18226475.55 18226475.62 18226475.73 0.0137 0.0122

Uranus 45190-07-15 10:48 G 18226563.82 18226563.95 18226564.11 0.0137 0.0093

Uranus 45190-10-11 18:58 G 18226652.12 18226652.29 18226652.47 0.0137 0.0064

Uranus 45191-01-08 02:53 G 18226740.43 18226740.62 18226740.81 0.0137 0.0035

Uranus 45191-04-06 10:48 G 18226828.75 18226828.95 18226829.14 0.0137 0.0006

Uranus 45191-07-03 18:29 G 18226917.08 18226917.27 18226917.46 0.0136 0.0023

Mars 45191-08-13 03:50 G 18226957.57 18226957.66 18226957.75 0.1928 0.1173

Uranus 45191-09-30 02:10 G 18227005.41 18227005.59 18227005.78 0.0136 0.0051

Uranus 45191-12-27 09:36 G 18227093.76 18227093.90 18227094.07 0.0136 0.0080

Uranus 45192-03-24 17:17 G 18227182.12 18227182.22 18227182.35 0.0136 0.0109

Saturn 45192-05-02 20:53 G 18227221.31 18227221.37 18227221.43 0.0296 0.0257

Uranus 45192-06-21 01:12 G 18227270.55 18227270.55 18227270.56 0.0136 0.0136

Saturn 45192-07-30 08:38 G 18227309.74 18227309.86 18227309.99 0.0295 0.0089

Saturn 45192-10-26 20:24 G 18227398.23 18227398.35 18227398.47 0.0294 0.0078

Saturn 45193-01-23 07:55 G 18227486.77 18227486.83 18227486.91 0.0293 0.0242

Jupiter 45193-10-12 01:55 G 18227748.50 18227748.58 18227748.66 0.0519 0.0405

Jupiter 45194-01-09 05:46 G 18227837.62 18227837.74 18227837.86 0.0517 0.0189

Mars 45194-05-20 02:10 G 18227968.42 18227968.59 18227968.76 0.1607 0.0179

Moon 45194-09-28 07:26 G 18228099.72 18228099.81 18228099.91 0.2652 0.1156

Earth 45194-09-28 08:10 G 18228099.74 18228099.84 18228099.93 0.2656 0.1089 *

Jupiter 45200-03-01 23:31 G 18230081.31 18230081.48 18230081.65 0.0509 0.0232

Mars 45201-01-02 12:29 G 18230387.90 18230388.02 18230388.13 0.1925 0.0275

Mars 45203-10-10 03:22 G 18231398.64 18231398.64 18231398.65 0.1609 0.1607

Earth 45204-04-02 07:55 G 18231573.66 18231573.83 18231573.99 0.2676 0.0217

Moon 45204-04-02 07:55 G 18231573.67 18231573.83 18231574.00 0.2684 0.0157 *

Venus 45205-03-29 16:19 G 18231935.02 18231935.18 18231935.34 0.3681 0.0434

Jupiter 45205-10-28 10:34 G 18232147.82 18232147.94 18232148.07 0.0517 0.0043

Moon 45207-10-01 00:29 G 18232850.41 18232850.52 18232850.63 0.2658 0.0074

Earth 45207-10-01 00:58 G 18232850.44 18232850.54 18232850.65 0.2655 0.0173 *

Pluto 45208-03-21 08:38 G 18233022.82 18233022.86 18233022.92 0.0068 0.0063

Saturn 45208-05-09 12:58 G 18233071.92 18233072.04 18233072.17 0.0267 0.0203

Pluto 45208-06-17 09:22 G 18233110.81 18233110.89 18233110.98 0.0068 0.0053

Saturn 45208-08-06 11:31 G 18233160.78 18233160.98 18233161.17 0.0268 0.0014

Pluto 45208-09-13 09:50 G 18233198.81 18233198.91 18233199.02 0.0068 0.0042

Saturn 45208-11-03 09:50 G 18233249.78 18233249.91 18233250.06 0.0268 0.0179

Pluto 45208-12-10 10:34 G 18233286.82 18233286.94 18233287.06 0.0068 0.0032

Pluto 45209-03-08 11:02 G 18233374.83 18233374.96 18233375.09 0.0068 0.0021

Pluto 45209-06-04 11:31 G 18233462.85 18233462.98 18233463.11 0.0069 0.0011

Pluto 45209-08-31 12:00 G 18233550.87 18233551.00 18233551.14 0.0069 0.0003

Pluto 45209-11-27 12:29 G 18233638.90 18233639.02 18233639.16 0.0069 0.0011

Pluto 45210-02-23 13:12 G 18233726.92 18233727.05 18233727.18 0.0069 0.0021

Pluto 45210-05-22 13:26 G 18233814.96 18233815.06 18233815.19 0.0069 0.0032

Mars 45210-05-25 20:53 G 18233818.32 18233818.37 18233818.42 0.1921 0.1682

Pluto 45210-08-18 14:24 G 18233902.99 18233903.10 18233903.20 0.0069 0.0042

Pluto 45210-11-14 14:38 G 18233991.04 18233991.11 18233991.20 0.0069 0.0054

Pluto 45211-02-10 15:07 G 18234079.10 18234079.13 18234079.19 0.0069 0.0065

Jupiter 45211-12-19 19:12 G 18234391.11 18234391.30 18234391.49 0.0508 0.0009

Jupiter 45217-08-16 14:53 G 18236458.00 18236458.12 18236458.25 0.0518 0.0113

Jupiter 45217-11-13 18:43 G 18236547.24 18236547.28 18236547.33 0.0515 0.0476

Venus 45219-01-29 10:19 G 18236988.85 18236988.93 18236989.00 0.3690 0.2297

Moon 45220-10-02 17:46 G 18237601.14 18237601.24 18237601.33 0.2660 0.1264

Earth 45220-10-02 18:00 G 18237601.16 18237601.25 18237601.34 0.2654 0.1349 *

Saturn 45221-09-20 00:14 G 18237953.49 18237953.51 18237953.53 0.0297 0.0292

Saturn 45221-12-17 12:00 G 18238041.89 18238042.00 18238042.12 0.0296 0.0123

Saturn 45222-03-15 23:46 G 18238130.36 18238130.49 18238130.62 0.0295 0.0044

Saturn 45222-06-12 11:17 G 18238218.89 18238218.97 18238219.06 0.0294 0.0209

Jupiter 45223-10-07 15:07 G 18238700.96 18238701.13 18238701.30 0.0508 0.0211

Mars 45224-06-28 01:55 G 18238965.52 18238965.58 18238965.64 0.1605 0.1486

Venus 45224-08-14 01:26 G 18239012.46 18239012.56 18239012.66 0.3690 0.0201

Moon 45227-09-26 19:26 G 18240151.24 18240151.31 18240151.38 0.2651 0.2054

Earth 45227-09-26 19:41 G 18240151.26 18240151.32 18240151.39 0.2657 0.2068 *

Jupiter 45229-06-04 19:26 G 18240768.21 18240768.31 18240768.42 0.0518 0.0263

Jupiter 45229-09-01 23:17 G 18240857.38 18240857.47 18240857.57 0.0516 0.0328

Venus 45230-02-27 16:34 G 18241036.11 18241036.19 18241036.28 0.3689 0.1968

Mars 45231-02-11 03:50 G 18241384.58 18241384.66 18241384.74 0.1928 0.1340

Earth 45233-10-05 11:02 G 18242351.93 18242351.96 18242351.98 0.2653 0.2557

Moon 45233-10-05 11:02 G 18242351.96 18242351.96 18242351.97 0.2660 0.2654 *

Mars 45233-11-18 02:53 G 18242395.45 18242395.62 18242395.80 0.1607 0.0069

Uranus 45234-01-02 03:22 G 18242440.58 18242440.64 18242440.71 0.0141 0.0121

Uranus 45234-03-31 06:43 G 18242528.69 18242528.78 18242528.87 0.0141 0.0100

Uranus 45234-06-27 10:05 G 18242616.81 18242616.92 18242617.03 0.0141 0.0079

Uranus 45234-09-23 13:26 G 18242704.94 18242705.06 18242705.18 0.0142 0.0058

Uranus 45234-12-20 16:48 G 18242793.07 18242793.20 18242793.32 0.0142 0.0037

Uranus 45235-03-18 20:10 G 18242881.21 18242881.34 18242881.47 0.0142 0.0017

Uranus 45235-06-14 23:31 G 18242969.35 18242969.48 18242969.61 0.0142 0.0006

Jupiter 45235-07-26 11:02 G 18243010.86 18243010.96 18243011.06 0.0508 0.0429

Uranus 45235-09-11 02:53 G 18243057.49 18243057.62 18243057.75 0.0142 0.0026

Jupiter 45235-10-25 01:55 G 18243101.50 18243101.58 18243101.66 0.0510 0.0459

Uranus 45235-12-08 06:00 G 18243145.63 18243145.75 18243145.88 0.0142 0.0048

Uranus 45236-03-05 09:22 G 18243233.78 18243233.89 18243234.01 0.0142 0.0070

Uranus 45236-06-01 12:58 G 18243321.94 18243322.04 18243322.14 0.0142 0.0091

Uranus 45236-08-28 16:19 G 18243410.10 18243410.18 18243410.26 0.0142 0.0112

Uranus 45236-11-24 19:41 G 18243498.28 18243498.32 18243498.37 0.0142 0.0134

Moon 45237-03-31 04:05 G 18243624.61 18243624.67 18243624.74 0.2682 0.2433

Earth 45237-03-31 04:34 G 18243624.62 18243624.69 18243624.77 0.2676 0.2376 *

Saturn 45237-09-26 12:43 G 18243803.97 18243804.03 18243804.11 0.0266 0.0247

Saturn 45237-12-24 11:17 G 18243892.78 18243892.97 18243893.16 0.0267 0.0058

Saturn 45238-03-23 09:50 G 18243981.74 18243981.91 18243982.08 0.0268 0.0133

Mars 45240-07-03 12:14 G 18244814.90 18244815.01 18244815.13 0.1925 0.0113

Moon 45240-09-28 12:14 G 18244901.91 18244902.01 18244902.11 0.2653 0.0946

Earth 45240-09-28 12:43 G 18244901.93 18244902.03 18244902.13 0.2656 0.0844 *

Jupiter 45241-03-23 23:46 G 18245078.42 18245078.49 18245078.57 0.0518 0.0419

Jupiter 45241-06-21 03:36 G 18245167.54 18245167.65 18245167.77 0.0517 0.0176

Mars 45243-04-10 04:05 G 18245825.59 18245825.67 18245825.76 0.1609 0.1388

Jupiter 45247-08-12 21:22 G 18247411.23 18247411.39 18247411.56 0.0509 0.0233

Mars 45249-11-23 20:53 G 18248245.30 18248245.37 18248245.43 0.1921 0.1535

Earth 45250-04-03 14:53 G 18248375.96 18248376.12 18248376.28 0.2677 0.0784

Moon 45250-04-03 15:22 G 18248375.99 18248376.14 18248376.29 0.2683 0.0902 *

Saturn 45251-05-06 15:07 G 18248774.03 18248774.13 18248774.24 0.0296 0.0159

Saturn 45251-08-03 02:53 G 18248862.50 18248862.62 18248862.75 0.0295 0.0012

Saturn 45251-10-30 14:38 G 18248951.01 18248951.11 18248951.21 0.0294 0.0174

Jupiter 45253-04-09 08:24 G 18249477.73 18249477.85 18249477.98 0.0517 0.0029

Moon 45253-10-01 05:02 G 18249652.61 18249652.71 18249652.82 0.2658 0.0306

Earth 45253-10-01 05:46 G 18249652.63 18249652.74 18249652.85 0.2655 0.0376 *

Jupiter 45259-05-31 16:19 G 18251720.99 18251721.18 18251721.37 0.0508 0.0005

Venus 45261-11-03 18:43 G 18252608.19 18252608.28 18252608.38 0.3681 0.2991

Neptune 45261-12-10 00:58 G 18252644.50 18252644.54 18252644.59 0.0089 0.0082

Neptune 45262-03-08 01:55 G 18252732.53 18252732.58 18252732.67 0.0089 0.0075

Neptune 45262-06-04 03:22 G 18252820.56 18252820.64 18252820.73 0.0089 0.0067

Neptune 45262-08-31 04:48 G 18252908.60 18252908.70 18252908.80 0.0089 0.0059

Neptune 45262-11-27 06:00 G 18252996.65 18252996.75 18252996.86 0.0089 0.0052

Neptune 45263-02-23 07:12 G 18253084.69 18253084.80 18253084.92 0.0089 0.0044

Neptune 45263-05-22 08:24 G 18253172.74 18253172.85 18253172.98 0.0089 0.0037

Neptune 45263-08-18 09:50 G 18253260.79 18253260.91 18253261.03 0.0089 0.0029

Neptune 45263-11-14 11:02 G 18253348.84 18253348.96 18253349.09 0.0089 0.0021

Neptune 45264-02-10 12:14 G 18253436.89 18253437.01 18253437.14 0.0089 0.0014

Neptune 45264-05-08 13:41 G 18253524.94 18253525.07 18253525.20 0.0089 0.0006

Neptune 45264-08-04 14:53 G 18253612.99 18253613.12 18253613.25 0.0089 0.0001

Neptune 45264-10-31 16:05 G 18253701.04 18253701.17 18253701.30 0.0089 0.0009

Jupiter 45265-01-26 13:12 G 18253787.93 18253788.05 18253788.17 0.0518 0.0120

Neptune 45265-01-27 17:17 G 18253789.10 18253789.22 18253789.35 0.0089 0.0017

Neptune 45265-04-25 18:29 G 18253877.15 18253877.27 18253877.40 0.0089 0.0025

Jupiter 45265-04-25 17:02 G 18253877.16 18253877.21 18253877.26 0.0516 0.0471 *

Neptune 45265-07-22 19:55 G 18253965.21 18253965.33 18253965.45 0.0089 0.0032

Neptune 45265-10-18 20:53 G 18254053.26 18254053.37 18254053.50 0.0089 0.0040

Neptune 45266-01-14 22:19 G 18254141.32 18254141.43 18254141.54 0.0089 0.0047

Neptune 45266-04-12 23:31 G 18254229.38 18254229.48 18254229.59 0.0089 0.0055

Neptune 45266-07-10 00:58 G 18254317.45 18254317.54 18254317.63 0.0089 0.0062

Moon 45266-10-03 22:34 G 18254403.35 18254403.44 18254403.52 0.2660 0.1592

Earth 45266-10-03 22:48 G 18254403.36 18254403.45 18254403.53 0.2654 0.1586 *

Neptune 45266-10-06 01:55 G 18254405.51 18254405.58 18254405.67 0.0089 0.0070

Neptune 45267-01-02 03:07 G 18254493.58 18254493.63 18254493.71 0.0089 0.0078

Neptune 45267-03-31 04:34 G 18254581.66 18254581.69 18254581.73 0.0089 0.0085

Saturn 45267-05-13 11:31 G 18254624.80 18254624.98 18254625.16 0.0267 0.0099

Saturn 45267-08-10 10:05 G 18254713.74 18254713.92 18254714.10 0.0268 0.0092

Venus 45270-02-19 16:19 G 18255638.17 18255638.18 18255638.19 0.3690 0.3639

Mars 45270-08-12 03:50 G 18255811.59 18255811.66 18255811.73 0.1928 0.1509

Jupiter 45271-03-19 12:00 G 18256030.83 18256031.00 18256031.17 0.0508 0.0225

Mars 45273-05-19 03:50 G 18256822.49 18256822.66 18256822.83 0.1607 0.0284

Moon 45273-09-27 00:14 G 18256953.43 18256953.51 18256953.58 0.2650 0.1927

Earth 45273-09-27 00:29 G 18256953.44 18256953.52 18256953.60 0.2657 0.1825 *

Uranus 45274-05-08 10:48 G 18257176.85 18257176.95 18257177.07 0.0137 0.0113

Uranus 45274-08-04 18:43 G 18257265.13 18257265.28 18257265.44 0.0137 0.0084

Uranus 45274-11-01 02:38 G 18257353.44 18257353.61 18257353.80 0.0137 0.0055

Uranus 45275-01-28 10:34 G 18257441.75 18257441.94 18257442.14 0.0137 0.0026

Uranus 45275-04-26 18:29 G 18257530.07 18257530.27 18257530.46 0.0137 0.0003

Uranus 45275-07-24 02:10 G 18257618.40 18257618.59 18257618.78 0.0137 0.0032

Venus 45275-09-05 07:26 G 18257661.72 18257661.81 18257661.90 0.3690 0.1535

Uranus 45275-10-20 09:50 G 18257706.74 18257706.91 18257707.09 0.0136 0.0060

Uranus 45276-01-16 17:31 G 18257795.09 18257795.23 18257795.38 0.0136 0.0089

Uranus 45276-04-14 00:58 G 18257883.46 18257883.54 18257883.66 0.0136 0.0117

Jupiter 45276-11-14 17:31 G 18258098.13 18258098.23 18258098.34 0.0518 0.0273

Jupiter 45277-02-11 21:22 G 18258187.30 18258187.39 18258187.49 0.0516 0.0319

Mars 45280-01-02 12:14 G 18259241.90 18259242.01 18259242.13 0.1925 0.0099

Saturn 45280-09-22 18:29 G 18259506.17 18259506.27 18259506.36 0.0296 0.0196

Saturn 45280-12-20 06:00 G 18259594.63 18259594.75 18259594.88 0.0295 0.0030

Saturn 45281-03-18 17:46 G 18259683.13 18259683.24 18259683.35 0.0294 0.0139

Venus 45281-03-20 22:48 G 18259685.35 18259685.45 18259685.55 0.3689 0.0617

Mars 45282-10-09 04:48 G 18260252.59 18260252.70 18260252.82 0.1609 0.1162

Jupiter 45283-01-05 07:41 G 18260340.74 18260340.82 18260340.91 0.0508 0.0447

Moon 45283-04-01 11:17 G 18260426.86 18260426.97 18260427.08 0.2683 0.1907

Earth 45283-04-01 11:46 G 18260426.87 18260426.99 18260427.11 0.2676 0.1802 *

Jupiter 45283-04-05 22:34 G 18260431.35 18260431.44 18260431.54 0.0510 0.0441

Moon 45286-09-29 16:48 G 18261704.10 18261704.20 18261704.31 0.2655 0.0649

Earth 45286-09-29 17:31 G 18261704.12 18261704.23 18261704.33 0.2656 0.0605 *

Venus 45286-10-04 13:55 G 18261709.02 18261709.08 18261709.15 0.3689 0.2751

Jupiter 45288-09-02 22:19 G 18262408.36 18262408.43 18262408.50 0.0518 0.0421

Jupiter 45288-12-01 02:10 G 18262497.47 18262497.59 18262497.71 0.0516 0.0171

Mars 45289-05-24 20:38 G 18262672.29 18262672.36 18262672.44 0.1921 0.1371

Pluto 45294-10-16 02:38 G 18264642.53 18264642.61 18264642.70 0.0075 0.0067

Pluto 45295-01-12 05:02 G 18264730.57 18264730.71 18264730.87 0.0075 0.0047

Jupiter 45295-01-22 18:29 G 18264741.11 18264741.27 18264741.45 0.0509 0.0222

Pluto 45295-04-10 07:26 G 18264818.64 18264818.81 18264819.00 0.0075 0.0027

Pluto 45295-07-07 10:05 G 18264906.73 18264906.92 18264907.12 0.0075 0.0006

Pluto 45295-10-03 12:43 G 18264994.84 18264995.03 18264995.22 0.0075 0.0014

Pluto 45295-12-30 15:07 G 18265082.96 18265083.13 18265083.30 0.0075 0.0034

Pluto 45296-03-27 17:31 G 18265171.10 18265171.23 18265171.37 0.0075 0.0054

Earth 45296-04-03 22:05 G 18265178.27 18265178.42 18265178.56 0.2677 0.1356

Moon 45296-04-03 22:48 G 18265178.31 18265178.45 18265178.59 0.2683 0.1439 *

Pluto 45296-06-23 19:41 G 18265259.31 18265259.32 18265259.36 0.0075 0.0074

Saturn 45296-09-29 11:02 G 18265356.80 18265356.96 18265357.12 0.0267 0.0147

Saturn 45296-12-27 09:22 G 18265445.71 18265445.89 18265446.09 0.0268 0.0044

Saturn 45297-03-26 07:55 G 18265534.75 18265534.83 18265534.93 0.0268 0.0235

Moon 45299-10-02 09:50 G 18266454.81 18266454.91 18266455.02 0.2658 0.0529

Earth 45299-10-02 10:34 G 18266454.83 18266454.94 18266455.04 0.2655 0.0619 *

Jupiter 45300-09-20 06:29 G 18266807.65 18266807.77 18266807.90 0.0517 0.0019

Jupiter 45306-11-11 14:24 G 18269050.91 18269051.10 18269051.29 0.0508 0.0006

Saturn 45310-02-10 21:07 G 18270238.31 18270238.38 18270238.46 0.0297 0.0236

Mars 45310-02-11 03:50 G 18270238.60 18270238.66 18270238.71 0.1928 0.1668

Saturn 45310-05-10 08:53 G 18270326.75 18270326.87 18270327.00 0.0296 0.0068

Saturn 45310-08-06 20:38 G 18270415.24 18270415.36 18270415.48 0.0294 0.0100

Saturn 45310-11-03 08:10 G 18270503.79 18270503.84 18270503.90 0.0293 0.0264

Jupiter 45312-07-09 11:17 G 18271117.85 18271117.97 18271118.09 0.0518 0.0131

Moon 45312-10-05 03:22 G 18271205.56 18271205.64 18271205.72 0.2661 0.1813

Earth 45312-10-05 03:22 G 18271205.57 18271205.64 18271205.72 0.2654 0.1825 *

Jupiter 45312-10-06 14:53 G 18271207.07 18271207.12 18271207.18 0.0516 0.0459

Mars 45312-11-18 04:19 G 18271249.52 18271249.68 18271249.85 0.1607 0.0504

Venus 45312-11-25 10:34 G 18271256.81 18271256.94 18271257.06 0.3681 0.2284

Uranus 45317-10-27 07:41 G 18273053.79 18273053.82 18273053.87 0.0141 0.0135

Uranus 45318-01-23 11:17 G 18273141.89 18273141.97 18273142.04 0.0141 0.0113

Uranus 45318-04-21 14:38 G 18273230.01 18273230.11 18273230.20 0.0141 0.0093

Uranus 45318-07-18 17:46 G 18273318.13 18273318.24 18273318.36 0.0141 0.0072

Jupiter 45318-08-30 09:22 G 18273360.73 18273360.89 18273361.06 0.0507 0.0232

Uranus 45318-10-14 21:07 G 18273406.26 18273406.38 18273406.50 0.0142 0.0051

Uranus 45319-01-11 00:29 G 18273494.39 18273494.52 18273494.65 0.0142 0.0030

Uranus 45319-04-09 03:50 G 18273582.53 18273582.66 18273582.79 0.0142 0.0009

Mars 45319-07-04 12:14 G 18273668.89 18273669.01 18273669.12 0.1925 0.0225

Uranus 45319-07-06 07:12 G 18273670.67 18273670.80 18273670.93 0.0142 0.0013

Moon 45319-09-29 04:48 G 18273755.61 18273755.70 18273755.79 0.2651 0.1578

Earth 45319-09-29 05:17 G 18273755.63 18273755.72 18273755.80 0.2657 0.1587 *

Uranus 45319-10-02 10:34 G 18273758.81 18273758.94 18273759.07 0.0142 0.0034

Uranus 45319-12-29 13:55 G 18273846.96 18273847.08 18273847.20 0.0142 0.0055

Uranus 45320-03-26 17:17 G 18273935.11 18273935.22 18273935.33 0.0142 0.0077

Uranus 45320-06-22 20:38 G 18274023.27 18274023.36 18274023.46 0.0142 0.0098

Uranus 45320-09-19 00:00 G 18274111.44 18274111.50 18274111.57 0.0142 0.0120

Uranus 45320-12-16 03:22 G 18274199.64 18274199.64 18274199.66 0.0142 0.0142

Mars 45322-04-10 05:31 G 18274679.60 18274679.73 18274679.87 0.1609 0.0935

Jupiter 45324-04-27 15:50 G 18275428.06 18275428.16 18275428.27 0.0519 0.0279

Jupiter 45324-07-25 19:41 G 18275517.23 18275517.32 18275517.42 0.0517 0.0315

Saturn 45326-02-17 10:34 G 18276088.82 18276088.94 18276089.08 0.0267 0.0193

Saturn 45326-05-17 09:22 G 18276177.69 18276177.89 18276178.08 0.0268 0.0007

Saturn 45326-08-14 07:41 G 18276266.69 18276266.82 18276266.96 0.0268 0.0188

Venus 45326-09-27 13:41 G 18276311.01 18276311.07 18276311.13 0.3690 0.2874

Mars 45328-11-23 20:53 G 18277099.28 18277099.37 18277099.45 0.1921 0.1190

Moon 45329-04-02 18:29 G 18277229.12 18277229.27 18277229.41 0.2683 0.1220

Earth 45329-04-02 18:43 G 18277229.14 18277229.28 18277229.43 0.2676 0.1238 *

Jupiter 45330-06-18 05:17 G 18277670.64 18277670.72 18277670.80 0.0507 0.0452

Jupiter 45330-09-16 19:55 G 18277761.24 18277761.33 18277761.43 0.0509 0.0433

Venus 45332-04-12 04:48 G 18278334.60 18278334.70 18278334.80 0.3690 0.0761

Moon 45332-09-30 21:36 G 18278506.29 18278506.40 18278506.50 0.2656 0.0515

Earth 45332-09-30 22:19 G 18278506.32 18278506.43 18278506.53 0.2656 0.0374 *

Jupiter 45336-02-14 20:38 G 18279738.29 18279738.36 18279738.42 0.0519 0.0430

Jupiter 45336-05-14 00:29 G 18279827.40 18279827.52 18279827.64 0.0517 0.0164

Venus 45337-10-26 20:10 G 18280358.24 18280358.34 18280358.43 0.3689 0.1391

Saturn 45339-07-01 00:00 G 18280970.46 18280970.50 18280970.55 0.0297 0.0275

Saturn 45339-09-27 12:00 G 18281058.88 18281059.00 18281059.12 0.0296 0.0106

Saturn 45339-12-24 23:31 G 18281147.36 18281147.48 18281147.61 0.0295 0.0063

Saturn 45340-03-22 11:17 G 18281235.89 18281235.97 18281236.05 0.0294 0.0227

Earth 45342-04-06 05:02 G 18281980.60 18281980.71 18281980.82 0.2677 0.1925

Moon 45342-04-06 06:14 G 18281980.66 18281980.76 18281980.86 0.2682 0.2060 *

Jupiter 45342-07-05 15:36 G 18282070.98 18282071.15 18282071.33 0.0509 0.0209

Venus 45343-05-12 11:17 G 18282381.95 18282381.97 18282382.00 0.3689 0.3543

Moon 45345-10-03 14:38 G 18283257.01 18283257.11 18283257.21 0.2659 0.0815

Earth 45345-10-03 15:07 G 18283257.03 18283257.13 18283257.23 0.2655 0.0852 *

Neptune 45346-05-12 21:07 G 18283478.32 18283478.38 18283478.47 0.0089 0.0082

Neptune 45346-08-09 00:43 G 18283566.43 18283566.53 18283566.67 0.0089 0.0071

Neptune 45346-11-05 04:48 G 18283654.56 18283654.70 18283654.85 0.0089 0.0059

Neptune 45347-02-01 08:24 G 18283742.70 18283742.85 18283743.03 0.0089 0.0048

Neptune 45347-04-30 12:29 G 18283830.84 18283831.02 18283831.20 0.0089 0.0036

Neptune 45347-07-27 16:05 G 18283918.99 18283919.17 18283919.37 0.0089 0.0025

Neptune 45347-10-23 19:55 G 18284007.14 18284007.33 18284007.53 0.0089 0.0013

Neptune 45348-01-19 23:46 G 18284095.29 18284095.49 18284095.69 0.0089 0.0002

Jupiter 45348-03-02 05:17 G 18284137.59 18284137.72 18284137.84 0.0517 0.0025

Neptune 45348-04-17 03:36 G 18284183.45 18284183.65 18284183.85 0.0089 0.0010

Neptune 45348-07-14 06:58 G 18284271.61 18284271.79 18284272.00 0.0089 0.0022

Neptune 45348-10-10 10:48 G 18284359.78 18284359.95 18284360.15 0.0089 0.0033

Neptune 45349-01-06 14:38 G 18284447.95 18284448.11 18284448.29 0.0089 0.0044

Neptune 45349-04-04 18:14 G 18284536.12 18284536.26 18284536.43 0.0089 0.0056

Neptune 45349-07-01 22:05 G 18284624.30 18284624.42 18284624.56 0.0089 0.0067

Mars 45349-08-12 03:36 G 18284665.62 18284665.65 18284665.69 0.1928 0.1825

Neptune 45349-09-28 02:10 G 18284712.50 18284712.59 18284712.68 0.0089 0.0078

Mars 45352-05-19 05:02 G 18285676.56 18285676.71 18285676.87 0.1607 0.0724

Moon 45352-09-26 16:48 G 18285807.17 18285807.20 18285807.23 0.2650 0.2534

Earth 45352-09-26 16:48 G 18285807.18 18285807.20 18285807.23 0.2657 0.2567 *

Jupiter 45354-04-23 11:46 G 18286380.80 18286380.99 18286381.18 0.0509 0.0013

Saturn 45355-07-07 09:36 G 18286820.83 18286820.90 18286820.98 0.0266 0.0243

Saturn 45355-10-04 08:10 G 18286909.65 18286909.84 18286910.03 0.0267 0.0055

Saturn 45356-01-01 06:29 G 18286998.61 18286998.77 18286998.94 0.0268 0.0136

Uranus 45358-03-02 10:34 G 18287789.91 18287789.94 18287790.00 0.0137 0.0133

Uranus 45358-05-29 18:29 G 18287878.15 18287878.27 18287878.41 0.0137 0.0104

Uranus 45358-08-26 02:24 G 18287966.45 18287966.60 18287966.77 0.0137 0.0075

Moon 45358-10-06 08:10 G 18288007.77 18288007.84 18288007.90 0.2661 0.2059

Earth 45358-10-06 08:10 G 18288007.77 18288007.84 18288007.91 0.2654 0.2060 *

Uranus 45358-11-22 10:19 G 18288054.75 18288054.93 18288055.12 0.0137 0.0046

Mars 45359-01-02 12:14 G 18288095.90 18288096.01 18288096.12 0.1925 0.0398

Uranus 45359-02-18 18:14 G 18288143.07 18288143.26 18288143.46 0.0137 0.0017

Uranus 45359-05-18 02:10 G 18288231.39 18288231.59 18288231.78 0.0137 0.0012

Uranus 45359-08-14 09:50 G 18288319.73 18288319.91 18288320.10 0.0137 0.0041

Uranus 45359-11-10 17:31 G 18288408.07 18288408.23 18288408.40 0.0136 0.0070

Jupiter 45359-12-20 09:36 G 18288447.78 18288447.90 18288448.02 0.0517 0.0136

Uranus 45360-02-07 01:26 G 18288496.42 18288496.56 18288496.69 0.0136 0.0098

Jupiter 45360-03-18 13:12 G 18288537.00 18288537.05 18288537.11 0.0516 0.0454

Uranus 45360-05-05 08:38 G 18288584.81 18288584.86 18288584.95 0.0136 0.0127

Mars 45361-10-09 06:14 G 18289106.61 18289106.76 18289106.91 0.1609 0.0716

Moon 45365-09-29 09:22 G 18290557.80 18290557.89 18290557.98 0.2653 0.1460

Earth 45365-09-29 09:50 G 18290557.82 18290557.91 18290558.01 0.2656 0.1345 *

Jupiter 45366-02-09 07:41 G 18290690.66 18290690.82 18290690.99 0.0508 0.0228

Mars 45368-05-24 20:38 G 18291526.26 18291526.36 18291526.45 0.1921 0.1054

Saturn 45369-02-13 14:10 G 18291790.98 18291791.09 18291791.20 0.0296 0.0154

Saturn 45369-05-13 01:55 G 18291879.45 18291879.58 18291879.71 0.0295 0.0014

Venus 45369-07-02 13:12 G 18291929.89 18291930.05 18291930.21 0.3681 0.0320

Saturn 45369-08-09 13:41 G 18291967.97 18291968.07 18291968.17 0.0294 0.0180

Jupiter 45371-10-08 14:10 G 18292757.99 18292758.09 18292758.20 0.0518 0.0285

Jupiter 45372-01-05 18:00 G 18292847.15 18292847.25 18292847.35 0.0516 0.0308

Earth 45375-04-04 01:55 G 18294031.42 18294031.58 18294031.74 0.2676 0.0662

Moon 45375-04-04 01:55 G 18294031.43 18294031.58 18294031.74 0.2682 0.0745 *

Jupiter 45377-11-28 03:07 G 18295000.55 18295000.63 18295000.72 0.0507 0.0453

Jupiter 45378-02-26 18:00 G 18295091.15 18295091.25 18295091.35 0.0509 0.0432

Moon 45378-10-02 02:10 G 18295308.49 18295308.59 18295308.70 0.2656 0.0177

Earth 45378-10-02 02:53 G 18295308.51 18295308.62 18295308.73 0.2655 0.0135 *

Venus 45383-05-04 11:02 G 18296983.88 18296983.96 18296984.04 0.3690 0.2107

Jupiter 45383-07-27 18:58 G 18297068.22 18297068.29 18297068.36 0.0519 0.0433

Jupiter 45383-10-24 22:48 G 18297157.33 18297157.45 18297157.57 0.0517 0.0163

Saturn 45385-02-20 07:12 G 18297641.62 18297641.80 18297641.98 0.0267 0.0106

Saturn 45385-05-20 05:31 G 18297730.55 18297730.73 18297730.92 0.0268 0.0084

Earth 45388-04-06 12:00 G 18298782.95 18298783.00 18298783.06 0.2677 0.2499

Venus 45388-11-17 02:10 G 18299007.49 18299007.59 18299007.69 0.3689 0.0024

Jupiter 45389-12-15 13:41 G 18299400.90 18299401.07 18299401.24 0.0509 0.0211

Moon 45391-10-04 19:26 G 18300059.22 18300059.31 18300059.41 0.2660 0.1003

Earth 45391-10-04 19:55 G 18300059.23 18300059.33 18300059.43 0.2655 0.1089 *

Mars 45391-11-18 06:00 G 18300103.61 18300103.75 18300103.89 0.1607 0.0957

Venus 45394-06-02 17:31 G 18301031.14 18301031.23 18301031.31 0.3689 0.2178

Jupiter 45395-08-13 03:36 G 18301467.52 18301467.65 18301467.78 0.0517 0.0014

Mars 45398-07-03 12:00 G 18302522.90 18302523.00 18302523.11 0.1924 0.0557

Saturn 45398-07-03 16:48 G 18302523.11 18302523.20 18302523.29 0.0297 0.0198 *

Moon 45398-09-27 21:36 G 18302609.35 18302609.40 18302609.44 0.2650 0.2362

Earth 45398-09-27 21:36 G 18302609.35 18302609.40 18302609.45 0.2657 0.2324 *

Saturn 45398-09-30 04:34 G 18302611.56 18302611.69 18302611.82 0.0296 0.0029

Saturn 45398-12-27 16:19 G 18302700.07 18302700.18 18302700.29 0.0295 0.0138

Mars 45401-04-10 06:58 G 18303533.63 18303533.79 18303533.95 0.1609 0.0493

Jupiter 45401-10-04 09:22 G 18303710.70 18303710.89 18303711.07 0.0509 0.0020

Uranus 45401-11-17 15:22 G 18303755.10 18303755.14 18303755.21 0.0141 0.0127

Uranus 45402-02-13 18:43 G 18303843.21 18303843.28 18303843.37 0.0141 0.0107

Uranus 45402-05-12 22:05 G 18303931.32 18303931.42 18303931.53 0.0141 0.0086

Uranus 45402-08-09 01:26 G 18304019.45 18304019.56 18304019.68 0.0141 0.0065

Uranus 45402-11-05 04:48 G 18304107.58 18304107.70 18304107.83 0.0141 0.0044

Uranus 45403-02-01 08:10 G 18304195.71 18304195.84 18304195.97 0.0142 0.0023

Uranus 45403-04-30 11:31 G 18304283.85 18304283.98 18304284.11 0.0142 0.0002

Uranus 45403-07-27 14:53 G 18304371.99 18304372.12 18304372.25 0.0142 0.0020

Uranus 45403-10-23 18:14 G 18304460.14 18304460.26 18304460.39 0.0142 0.0042

Uranus 45404-01-19 21:36 G 18304548.29 18304548.40 18304548.52 0.0142 0.0063

Uranus 45404-04-17 00:58 G 18304636.44 18304636.54 18304636.65 0.0142 0.0084

Uranus 45404-07-14 04:19 G 18304724.60 18304724.68 18304724.77 0.0142 0.0106

Moon 45404-10-07 12:58 G 18304809.99 18304810.04 18304810.09 0.2660 0.2331

Earth 45404-10-07 12:58 G 18304809.99 18304810.04 18304810.09 0.2654 0.2299 *

Uranus 45404-10-10 07:55 G 18304812.77 18304812.83 18304812.88 0.0142 0.0128

Jupiter 45407-06-02 08:24 G 18305777.73 18305777.85 18305777.97 0.0517 0.0130

Jupiter 45407-08-30 12:14 G 18305866.95 18305867.01 18305867.06 0.0515 0.0458

Mars 45407-11-24 20:38 G 18305953.26 18305953.36 18305953.46 0.1921 0.0874

Moon 45411-10-01 14:10 G 18307359.99 18307360.09 18307360.18 0.2654 0.1145

Earth 45411-10-01 14:38 G 18307360.01 18307360.11 18307360.21 0.2656 0.1099 *

Jupiter 45413-07-23 05:31 G 18308020.56 18308020.73 18308020.90 0.0508 0.0230

Saturn 45414-07-11 05:31 G 18308373.58 18308373.73 18308373.88 0.0266 0.0162

Saturn 45414-10-08 03:50 G 18308462.47 18308462.66 18308462.85 0.0267 0.0026

Saturn 45415-01-05 02:10 G 18308551.49 18308551.59 18308551.71 0.0268 0.0217

Jupiter 45419-03-21 12:58 G 18310087.93 18310088.04 18310088.14 0.0518 0.0282

Jupiter 45419-06-18 16:48 G 18310177.10 18310177.20 18310177.30 0.0516 0.0309

Earth 45421-04-05 08:53 G 18310833.71 18310833.87 18310834.04 0.2676 0.0100

Moon 45421-04-05 09:22 G 18310833.73 18310833.89 18310834.05 0.2683 0.0073 *

Moon 45424-10-03 06:58 G 18312110.68 18312110.79 18312110.90 0.2656 0.0054

Earth 45424-10-03 07:41 G 18312110.71 18312110.82 18312110.93 0.2655 0.0125 *

Jupiter 45425-05-11 01:41 G 18312330.49 18312330.57 18312330.66 0.0508 0.0445

Jupiter 45425-08-09 16:34 G 18312421.10 18312421.19 18312421.28 0.0510 0.0443

Venus 45426-02-07 15:36 G 18312603.05 18312603.15 18312603.25 0.3681 0.2854

Neptune 45426-09-08 00:14 G 18312815.46 18312815.51 18312815.56 0.0089 0.0081

Neptune 45426-12-05 01:12 G 18312903.49 18312903.55 18312903.63 0.0089 0.0074

Neptune 45427-03-03 02:38 G 18312991.53 18312991.61 18312991.70 0.0089 0.0066

Neptune 45427-05-30 03:50 G 18313079.57 18313079.66 18313079.76 0.0089 0.0059

Neptune 45427-08-26 05:17 G 18313167.61 18313167.72 18313167.82 0.0089 0.0051

Saturn 45427-11-21 18:29 G 18313255.21 18313255.27 18313255.34 0.0297 0.0253

Neptune 45427-11-22 06:14 G 18313255.66 18313255.76 18313255.88 0.0089 0.0044

Saturn 45428-02-18 06:29 G 18313343.65 18313343.77 18313343.89 0.0296 0.0083

Neptune 45428-02-18 07:41 G 18313343.70 18313343.82 18313343.94 0.0089 0.0036 *

Neptune 45428-05-16 08:53 G 18313431.75 18313431.87 18313432.00 0.0089 0.0028

Saturn 45428-05-16 18:14 G 18313432.14 18313432.26 18313432.38 0.0295 0.0085

Neptune 45428-08-12 10:19 G 18313519.80 18313519.93 18313520.05 0.0089 0.0021

Saturn 45428-08-13 05:46 G 18313520.68 18313520.74 18313520.81 0.0294 0.0251

Neptune 45428-11-08 11:31 G 18313607.85 18313607.98 18313608.11 0.0089 0.0013

Neptune 45429-02-04 12:43 G 18313695.90 18313696.03 18313696.16 0.0089 0.0006

Neptune 45429-05-03 13:55 G 18313783.95 18313784.08 18313784.21 0.0089 0.0003

Neptune 45429-07-30 15:22 G 18313872.01 18313872.14 18313872.27 0.0089 0.0010

Neptune 45429-10-26 16:34 G 18313960.06 18313960.19 18313960.32 0.0089 0.0017

Neptune 45430-01-22 17:46 G 18314048.11 18314048.24 18314048.37 0.0089 0.0025

Neptune 45430-04-20 18:58 G 18314136.17 18314136.29 18314136.41 0.0089 0.0032

Neptune 45430-07-17 20:10 G 18314224.23 18314224.34 18314224.46 0.0089 0.0040

Neptune 45430-10-13 21:22 G 18314312.29 18314312.39 18314312.51 0.0089 0.0048

Jupiter 45431-01-07 17:31 G 18314398.17 18314398.23 18314398.30 0.0519 0.0432

Neptune 45431-01-09 22:34 G 18314400.35 18314400.44 18314400.55 0.0089 0.0056

Jupiter 45431-04-06 21:22 G 18314487.28 18314487.39 18314487.51 0.0517 0.0163

Neptune 45431-04-08 00:00 G 18314488.41 18314488.50 18314488.59 0.0089 0.0063

Mars 45431-05-20 06:29 G 18314530.66 18314530.77 18314530.89 0.1607 0.1170

Neptune 45431-07-05 00:58 G 18314576.48 18314576.54 18314576.63 0.0089 0.0071

Neptune 45431-10-01 02:38 G 18314664.55 18314664.61 18314664.67 0.0089 0.0078

Neptune 45431-12-28 03:36 G 18314752.63 18314752.65 18314752.69 0.0089 0.0086

Venus 45434-05-26 17:02 G 18315633.18 18315633.21 18315633.25 0.3690 0.3448

Jupiter 45437-05-28 12:14 G 18316730.84 18316731.01 18316731.18 0.0509 0.0217

Moon 45437-10-06 00:14 G 18316861.42 18316861.51 18316861.61 0.2661 0.1354

Earth 45437-10-06 00:43 G 18316861.43 18316861.53 18316861.62 0.2654 0.1330 *

Mars 45438-01-02 12:00 G 18316949.90 18316950.00 18316950.11 0.1925 0.0717

Venus 45439-12-10 08:24 G 18317656.75 18317656.85 18317656.94 0.3690 0.1344

Mars 45440-10-09 07:55 G 18317960.66 18317960.83 18317960.99 0.1609 0.0261

Uranus 45442-03-23 18:43 G 18318491.21 18318491.28 18318491.39 0.0137 0.0122

Uranus 45442-06-20 02:38 G 18318579.48 18318579.61 18318579.77 0.0137 0.0093

Uranus 45442-09-16 10:34 G 18318667.78 18318667.94 18318668.13 0.0137 0.0064

Uranus 45442-12-13 18:43 G 18318756.09 18318756.28 18318756.47 0.0137 0.0035

Jupiter 45443-01-24 02:10 G 18318797.47 18318797.59 18318797.72 0.0517 0.0026

Uranus 45443-03-12 02:38 G 18318844.41 18318844.61 18318844.80 0.0137 0.0006

Uranus 45443-06-08 10:19 G 18318932.74 18318932.93 18318933.13 0.0137 0.0023

Uranus 45443-09-04 18:00 G 18319021.08 18319021.25 18319021.44 0.0137 0.0052

Saturn 45443-11-28 03:50 G 18319105.56 18319105.66 18319105.78 0.0266 0.0218

Uranus 45443-12-02 01:41 G 18319109.42 18319109.57 18319109.74 0.0136 0.0081

Saturn 45444-02-25 02:24 G 18319194.40 18319194.60 18319194.79 0.0267 0.0030

Uranus 45444-02-28 09:36 G 18319197.79 18319197.90 18319198.02 0.0136 0.0109

Saturn 45444-05-24 00:43 G 18319283.38 18319283.53 18319283.69 0.0268 0.0160

Moon 45444-09-29 02:10 G 18319411.53 18319411.59 18319411.65 0.2651 0.2102

Earth 45444-09-29 02:24 G 18319411.53 18319411.60 18319411.66 0.2657 0.2082 *

Venus 45445-06-24 23:31 G 18319680.38 18319680.48 18319680.58 0.3689 0.0804

Mars 45447-05-25 20:38 G 18320380.25 18320380.36 18320380.46 0.1921 0.0706

Jupiter 45449-03-16 08:10 G 18321040.65 18321040.84 18321041.03 0.0508 0.0007

Moon 45450-10-08 17:46 G 18321612.21 18321612.24 18321612.27 0.2660 0.2529

Earth 45450-10-08 17:31 G 18321612.21 18321612.23 18321612.26 0.2654 0.2534 *

Venus 45451-01-08 14:38 G 18321704.06 18321704.11 18321704.17 0.3689 0.2964

Moon 45454-04-03 05:02 G 18322884.70 18322884.71 18322884.73 0.2682 0.2666

Earth 45454-04-03 05:46 G 18322884.73 18322884.74 18322884.76 0.2675 0.2661 *

Jupiter 45454-11-12 07:12 G 18323107.68 18323107.80 18323107.92 0.0518 0.0130

Jupiter 45455-02-09 10:48 G 18323196.90 18323196.95 18323197.01 0.0515 0.0460

Pluto 45456-10-11 16:05 G 18323807.11 18323807.17 18323807.24 0.0068 0.0059

Pluto 45457-01-07 16:34 G 18323895.11 18323895.19 18323895.29 0.0068 0.0049

Pluto 45457-04-05 17:17 G 18323983.11 18323983.22 18323983.33 0.0068 0.0039

Pluto 45457-07-02 17:46 G 18324071.12 18324071.24 18324071.36 0.0068 0.0028

Saturn 45457-07-07 08:38 G 18324075.74 18324075.86 18324075.97 0.0297 0.0133

Pluto 45457-09-28 18:14 G 18324159.14 18324159.26 18324159.39 0.0068 0.0018

Moon 45457-10-01 18:43 G 18324162.18 18324162.28 18324162.38 0.2654 0.0979

Earth 45457-10-01 19:26 G 18324162.21 18324162.31 18324162.41 0.2656 0.0862 *

Saturn 45457-10-03 20:24 G 18324164.22 18324164.35 18324164.47 0.0295 0.0037

Pluto 45457-12-25 18:43 G 18324247.15 18324247.28 18324247.42 0.0069 0.0008

Saturn 45457-12-31 07:55 G 18324252.74 18324252.83 18324252.93 0.0294 0.0203

Pluto 45458-03-23 19:26 G 18324335.18 18324335.31 18324335.44 0.0069 0.0003

Pluto 45458-06-19 19:55 G 18324423.20 18324423.33 18324423.46 0.0069 0.0014

Pluto 45458-09-15 20:24 G 18324511.23 18324511.35 18324511.48 0.0069 0.0025

Pluto 45458-12-12 21:07 G 18324599.26 18324599.38 18324599.49 0.0069 0.0035

Pluto 45459-03-10 21:22 G 18324687.30 18324687.39 18324687.50 0.0069 0.0047

Pluto 45459-06-06 21:50 G 18324775.35 18324775.41 18324775.50 0.0069 0.0058

Pluto 45459-09-02 22:19 G 18324863.43 18324863.43 18324863.47 0.0069 0.0069

Jupiter 45461-01-02 03:22 G 18325350.48 18325350.64 18325350.81 0.0508 0.0232

Jupiter 45466-08-31 12:00 G 18327417.90 18327418.00 18327418.11 0.0518 0.0272

Jupiter 45466-11-28 15:50 G 18327507.06 18327507.16 18327507.26 0.0516 0.0319

Earth 45467-04-06 16:05 G 18327636.00 18327636.17 18327636.33 0.2676 0.0480

Moon 45467-04-06 16:48 G 18327636.04 18327636.20 18327636.36 0.2683 0.0461 *

Moon 45470-10-04 11:46 G 18328912.89 18328912.99 18328913.10 0.2658 0.0330

Earth 45470-10-04 12:29 G 18328912.91 18328913.02 18328913.12 0.2655 0.0373 *

Mars 45470-11-18 07:12 G 18328957.72 18328957.80 18328957.88 0.1607 0.1398

Jupiter 45472-10-21 00:00 G 18329660.41 18329660.50 18329660.59 0.0508 0.0443

Jupiter 45473-01-19 14:53 G 18329751.03 18329751.12 18329751.21 0.0510 0.0447

Saturn 45473-07-14 00:00 G 18329926.32 18329926.50 18329926.69 0.0266 0.0091

Saturn 45473-10-10 22:34 G 18330015.26 18330015.44 18330015.62 0.0267 0.0098

Venus 45477-02-28 07:12 G 18331251.68 18331251.80 18331251.92 0.3681 0.2473

Mars 45477-07-03 12:00 G 18331376.90 18331377.00 18331377.10 0.1925 0.0881

Jupiter 45478-06-19 16:34 G 18331728.12 18331728.19 18331728.26 0.0518 0.0423

Jupiter 45478-09-16 20:24 G 18331817.23 18331817.35 18331817.47 0.0516 0.0170

Mars 45480-04-09 08:24 G 18332387.68 18332387.85 18332388.02 0.1609 0.0042

Moon 45483-10-07 05:02 G 18333663.63 18333663.71 18333663.80 0.2661 0.1484

Earth 45483-10-07 05:17 G 18333663.64 18333663.72 18333663.81 0.2654 0.1571 *

Jupiter 45484-11-07 11:02 G 18334060.80 18334060.96 18334061.13 0.0509 0.0232

Uranus 45485-09-10 20:24 G 18334368.33 18334368.35 18334368.37 0.0141 0.0138

Uranus 45485-12-07 23:46 G 18334456.42 18334456.49 18334456.56 0.0141 0.0118

Uranus 45486-03-06 02:53 G 18334544.53 18334544.62 18334544.72 0.0141 0.0097

Uranus 45486-06-02 06:14 G 18334632.66 18334632.76 18334632.87 0.0141 0.0076

Uranus 45486-08-29 09:36 G 18334720.78 18334720.90 18334721.02 0.0141 0.0055

Mars 45486-11-23 20:24 G 18334807.24 18334807.35 18334807.46 0.1921 0.0560

Saturn 45486-11-24 09:50 G 18334807.82 18334807.91 18334808.01 0.0297 0.0194

Uranus 45486-11-25 12:58 G 18334808.91 18334809.04 18334809.17 0.0142 0.0034

Saturn 45487-02-20 21:36 G 18334896.28 18334896.40 18334896.53 0.0296 0.0026

Uranus 45487-02-21 16:19 G 18334897.05 18334897.18 18334897.31 0.0142 0.0013

Saturn 45487-05-20 09:22 G 18334984.78 18334984.89 18334985.01 0.0295 0.0144

Uranus 45487-05-20 19:41 G 18334985.19 18334985.32 18334985.45 0.0142 0.0009

Uranus 45487-08-16 23:02 G 18335073.33 18335073.46 18335073.59 0.0142 0.0030

Uranus 45487-11-13 02:24 G 18335161.48 18335161.60 18335161.72 0.0142 0.0051

Uranus 45488-02-09 05:31 G 18335249.63 18335249.73 18335249.85 0.0142 0.0073

Uranus 45488-05-07 09:07 G 18335337.79 18335337.88 18335337.98 0.0142 0.0094

Uranus 45488-08-03 12:29 G 18335425.95 18335426.02 18335426.10 0.0142 0.0116

Uranus 45488-10-30 15:50 G 18335514.14 18335514.16 18335514.20 0.0142 0.0138

Mars 45489-08-30 09:36 G 18335817.83 18335817.90 18335817.96 0.1612 0.1490

Jupiter 45490-07-06 01:12 G 18336127.42 18336127.55 18336127.68 0.0517 0.0023

Moon 45490-09-30 06:43 G 18336213.70 18336213.78 18336213.85 0.2652 0.1871

Earth 45490-09-30 07:12 G 18336213.72 18336213.80 18336213.87 0.2657 0.1847 *

Venus 45490-12-31 14:24 G 18336306.03 18336306.10 18336306.17 0.3690 0.2679

Venus 45496-07-16 05:31 G 18338329.63 18338329.73 18338329.83 0.3690 0.0570

Jupiter 45496-08-26 06:58 G 18338370.60 18338370.79 18338370.98 0.0508 0.0010

Moon 45500-04-04 12:43 G 18339686.94 18339687.03 18339687.12 0.2682 0.2190

Earth 45500-04-04 12:58 G 18339686.94 18339687.04 18339687.14 0.2675 0.2091 *

Venus 45502-01-30 20:53 G 18340353.28 18340353.37 18340353.46 0.3689 0.1589

Jupiter 45502-04-25 06:00 G 18340437.63 18340437.75 18340437.87 0.0518 0.0123

Jupiter 45502-07-23 09:50 G 18340526.86 18340526.91 18340526.96 0.0516 0.0467

Saturn 45502-12-01 21:50 G 18340658.26 18340658.41 18340658.57 0.0266 0.0152

Saturn 45503-02-28 20:10 G 18340747.15 18340747.34 18340747.54 0.0267 0.0037

Saturn 45503-05-28 18:29 G 18340836.18 18340836.27 18340836.38 0.0268 0.0227

Moon 45503-10-03 23:31 G 18340964.37 18340964.48 18340964.58 0.2654 0.0698

Earth 45503-10-04 00:00 G 18340964.40 18340964.50 18340964.61 0.2656 0.0628 *

Jupiter 45508-06-15 02:53 G 18342680.45 18342680.62 18342680.80 0.0508 0.0210

Neptune 45511-02-08 17:46 G 18343649.18 18343649.24 18343649.33 0.0089 0.0082

Neptune 45511-05-07 21:50 G 18343737.29 18343737.41 18343737.53 0.0089 0.0070

Neptune 45511-08-04 01:26 G 18343825.42 18343825.56 18343825.72 0.0089 0.0059

Neptune 45511-10-31 05:02 G 18343913.56 18343913.71 18343913.89 0.0089 0.0048

Neptune 45512-01-27 09:07 G 18344001.70 18344001.88 18344002.07 0.0089 0.0036

Neptune 45512-04-24 12:43 G 18344089.85 18344090.03 18344090.23 0.0089 0.0025

Neptune 45512-07-21 16:48 G 18344178.00 18344178.20 18344178.39 0.0089 0.0013

Neptune 45512-10-17 20:24 G 18344266.16 18344266.35 18344266.55 0.0089 0.0003

Neptune 45513-01-14 00:14 G 18344354.31 18344354.51 18344354.71 0.0089 0.0010

Earth 45513-04-07 23:02 G 18344438.31 18344438.46 18344438.61 0.2677 0.1049

Moon 45513-04-08 00:00 G 18344438.35 18344438.50 18344438.64 0.2683 0.1271 *

Neptune 45513-04-12 03:50 G 18344442.48 18344442.66 18344442.86 0.0089 0.0022

Neptune 45513-07-09 07:41 G 18344530.64 18344530.82 18344531.01 0.0089 0.0033

Neptune 45513-10-05 11:17 G 18344618.81 18344618.97 18344619.15 0.0089 0.0045

Neptune 45514-01-01 15:07 G 18344706.98 18344707.13 18344707.29 0.0089 0.0056

Jupiter 45514-02-11 11:02 G 18344747.85 18344747.96 18344748.06 0.0518 0.0267

Neptune 45514-03-30 18:58 G 18344795.17 18344795.29 18344795.42 0.0089 0.0067

Jupiter 45514-05-11 14:38 G 18344837.02 18344837.11 18344837.21 0.0516 0.0325

Neptune 45514-06-26 22:19 G 18344883.36 18344883.43 18344883.54 0.0089 0.0079

Saturn 45516-04-13 11:46 G 18345539.92 18345539.99 18345540.05 0.0297 0.0249

Saturn 45516-07-10 23:31 G 18345628.36 18345628.48 18345628.60 0.0296 0.0078

Moon 45516-10-05 16:34 G 18345715.09 18345715.19 18345715.30 0.2660 0.0495

Earth 45516-10-05 17:02 G 18345715.11 18345715.21 18345715.32 0.2655 0.0597 *

Saturn 45516-10-07 11:17 G 18345716.85 18345716.97 18345717.09 0.0295 0.0091

Mars 45517-01-02 12:00 G 18345803.90 18345804.00 18345804.09 0.1924 0.1047

Saturn 45517-01-03 23:02 G 18345805.40 18345805.46 18345805.52 0.0294 0.0257

Mars 45519-10-10 09:07 G 18346814.71 18346814.88 18346815.05 0.1609 0.0184

Jupiter 45520-04-02 22:05 G 18346990.33 18346990.42 18346990.52 0.0508 0.0440

Jupiter 45520-07-02 12:58 G 18347080.96 18347081.04 18347081.13 0.0510 0.0451

Jupiter 45525-11-30 15:50 G 18349058.09 18349058.16 18349058.24 0.0518 0.0408

Jupiter 45526-02-27 19:41 G 18349147.21 18349147.32 18349147.44 0.0516 0.0186

Uranus 45526-04-14 03:36 G 18349192.55 18349192.65 18349192.78 0.0137 0.0109

Mars 45526-05-25 20:24 G 18349234.24 18349234.35 18349234.46 0.1921 0.0392

Uranus 45526-07-11 11:31 G 18349280.84 18349280.98 18349281.15 0.0137 0.0080

Uranus 45526-10-07 19:26 G 18349369.14 18349369.31 18349369.50 0.0137 0.0051

Uranus 45527-01-04 03:36 G 18349457.45 18349457.65 18349457.84 0.0137 0.0022

Uranus 45527-04-02 11:17 G 18349545.78 18349545.97 18349546.17 0.0137 0.0008

Uranus 45527-06-29 19:12 G 18349634.11 18349634.30 18349634.49 0.0137 0.0036

Uranus 45527-09-26 02:53 G 18349722.45 18349722.62 18349722.80 0.0136 0.0065

Uranus 45527-12-23 10:19 G 18349810.80 18349810.93 18349811.09 0.0136 0.0094

Uranus 45528-03-20 18:14 G 18349899.18 18349899.26 18349899.35 0.0136 0.0121

Mars 45529-03-01 10:05 G 18350244.82 18350244.92 18350245.03 0.1612 0.1269

Moon 45529-10-08 09:50 G 18350465.84 18350465.91 18350465.99 0.2661 0.1844

Earth 45529-10-08 10:05 G 18350465.84 18350465.92 18350466.00 0.2654 0.1804 *

Saturn 45532-04-19 19:26 G 18351390.20 18351390.31 18351390.43 0.0265 0.0213

Jupiter 45532-04-20 09:36 G 18351390.74 18351390.90 18351391.07 0.0510 0.0238

Saturn 45532-07-17 17:46 G 18351479.05 18351479.24 18351479.43 0.0266 0.0027

Saturn 45532-10-14 16:05 G 18351568.02 18351568.17 18351568.32 0.0267 0.0162

Venus 45533-10-06 09:50 G 18351924.75 18351924.91 18351925.07 0.3681 0.0142

Mars 45535-10-16 05:02 G 18352664.67 18352664.71 18352664.74 0.1917 0.1806

Moon 45536-10-01 11:17 G 18353015.89 18353015.97 18353016.05 0.2652 0.1706

Earth 45536-10-01 11:46 G 18353015.91 18353015.99 18353016.08 0.2657 0.1601 *

Jupiter 45537-12-17 00:29 G 18353457.39 18353457.52 18353457.64 0.0517 0.0040

Pluto 45543-05-09 08:24 G 18355426.74 18355426.85 18355426.97 0.0076 0.0060

Pluto 45543-08-05 10:48 G 18355514.79 18355514.95 18355515.12 0.0075 0.0040

Pluto 45543-11-01 13:12 G 18355602.87 18355603.05 18355603.25 0.0075 0.0020

Pluto 45544-01-28 15:50 G 18355690.97 18355691.16 18355691.36 0.0075 0.0002

Jupiter 45544-02-07 06:00 G 18355700.57 18355700.75 18355700.94 0.0509 0.0029

Pluto 45544-04-25 18:14 G 18355779.08 18355779.26 18355779.45 0.0075 0.0021

Pluto 45544-07-22 20:38 G 18355867.21 18355867.36 18355867.53 0.0075 0.0041

Pluto 45544-10-18 23:02 G 18355955.36 18355955.46 18355955.58 0.0075 0.0061

Saturn 45545-11-28 00:29 G 18356360.41 18356360.52 18356360.63 0.0297 0.0145

Saturn 45546-02-24 12:14 G 18356448.89 18356449.01 18356449.14 0.0296 0.0026

Earth 45546-04-05 19:55 G 18356489.20 18356489.33 18356489.47 0.2675 0.1523

Moon 45546-04-05 20:10 G 18356489.21 18356489.34 18356489.47 0.2682 0.1493 *

Saturn 45546-05-24 00:00 G 18356537.41 18356537.50 18356537.60 0.0295 0.0193

Venus 45547-08-08 11:46 G 18356978.90 18356978.99 18356979.07 0.3690 0.1923

Moon 45549-10-04 04:05 G 18357766.57 18357766.67 18357766.78 0.2655 0.0476

Earth 45549-10-04 04:48 G 18357766.59 18357766.70 18357766.81 0.2656 0.0384 *

Jupiter 45549-10-05 05:02 G 18357767.59 18357767.71 18357767.84 0.0517 0.0112

Jupiter 45550-01-02 08:53 G 18357856.82 18357856.87 18357856.91 0.0515 0.0477

Venus 45553-02-21 02:53 G 18359002.52 18359002.62 18359002.72 0.3690 0.0226

Jupiter 45555-11-26 02:10 G 18360010.42 18360010.59 18360010.76 0.0508 0.0193

Mars 45556-07-03 11:46 G 18360230.91 18360230.99 18360231.08 0.1925 0.1204

Venus 45558-09-06 18:00 G 18361026.18 18361026.25 18361026.33 0.3689 0.2365

Earth 45559-04-09 06:14 G 18361240.63 18361240.76 18361240.89 0.2677 0.1626

Moon 45559-04-09 07:12 G 18361240.67 18361240.80 18361240.93 0.2682 0.1657 *

Mars 45559-04-10 09:50 G 18361241.75 18361241.91 18361242.08 0.1609 0.0416

Jupiter 45561-07-24 09:50 G 18362077.81 18362077.91 18362078.02 0.0518 0.0258

Jupiter 45561-10-21 13:41 G 18362166.98 18362167.07 18362167.17 0.0516 0.0334

Saturn 45561-12-04 15:22 G 18362210.95 18362211.14 18362211.32 0.0266 0.0091

Saturn 45562-03-03 13:26 G 18362299.88 18362300.06 18362300.24 0.0267 0.0097

Moon 45562-10-06 21:22 G 18362517.29 18362517.39 18362517.49 0.2660 0.0791

Earth 45562-10-06 21:50 G 18362517.31 18362517.41 18362517.51 0.2655 0.0831 *

Mars 45565-11-23 20:24 G 18363661.24 18363661.35 18363661.47 0.1921 0.0221

Jupiter 45567-09-13 22:05 G 18364320.32 18364320.42 18364320.54 0.0508 0.0410

Jupiter 45567-12-13 12:58 G 18364410.99 18364411.04 18364411.11 0.0510 0.0479

Mars 45568-08-30 11:02 G 18364671.83 18364671.96 18364672.09 0.1612 0.1035

Earth 45569-09-29 23:31 G 18365067.46 18365067.48 18365067.50 0.2657 0.2586

Moon 45569-09-29 23:31 G 18365067.47 18365067.48 18365067.48 0.2651 0.2637 *

Uranus 45569-10-02 04:05 G 18365069.63 18365069.67 18365069.72 0.0141 0.0131

Uranus 45569-12-29 07:26 G 18365157.73 18365157.81 18365157.89 0.0141 0.0110

Uranus 45570-03-27 10:48 G 18365245.85 18365245.95 18365246.05 0.0141 0.0089

Uranus 45570-06-23 14:10 G 18365333.97 18365334.09 18365334.20 0.0141 0.0069

Uranus 45570-09-19 17:17 G 18365422.10 18365422.22 18365422.35 0.0141 0.0048

Uranus 45570-12-16 20:38 G 18365510.24 18365510.36 18365510.49 0.0142 0.0027

Uranus 45571-03-15 00:00 G 18365598.37 18365598.50 18365598.63 0.0142 0.0006

Uranus 45571-06-11 03:22 G 18365686.51 18365686.64 18365686.77 0.0142 0.0016

Uranus 45571-09-07 06:43 G 18365774.66 18365774.78 18365774.91 0.0142 0.0037

Uranus 45571-12-04 10:05 G 18365862.80 18365862.92 18365863.04 0.0142 0.0059

Uranus 45572-03-01 13:26 G 18365950.96 18365951.06 18365951.17 0.0142 0.0080

Uranus 45572-05-28 16:48 G 18366039.11 18366039.20 18366039.29 0.0142 0.0102

Uranus 45572-08-24 20:24 G 18366127.28 18366127.35 18366127.41 0.0142 0.0124

Jupiter 45573-05-12 14:53 G 18366388.05 18366388.12 18366388.20 0.0518 0.0400

Jupiter 45573-08-09 18:43 G 18366477.17 18366477.28 18366477.40 0.0516 0.0194

Mars 45575-04-16 05:02 G 18367091.65 18367091.71 18367091.76 0.1917 0.1650

Saturn 45575-04-17 01:55 G 18367092.49 18367092.58 18367092.67 0.0297 0.0204

Saturn 45575-07-14 13:41 G 18367180.95 18367181.07 18367181.20 0.0296 0.0035

Moon 45575-10-09 14:53 G 18367268.05 18367268.12 18367268.19 0.2660 0.2013

Earth 45575-10-09 14:53 G 18367268.05 18367268.12 18367268.18 0.2654 0.2044 *

Saturn 45575-10-11 01:26 G 18367269.45 18367269.56 18367269.68 0.0295 0.0136

Jupiter 45579-10-01 08:10 G 18368720.68 18368720.84 18368721.01 0.0510 0.0246

Moon 45582-10-02 16:05 G 18369818.07 18369818.17 18369818.26 0.2652 0.1388

Earth 45582-10-02 16:34 G 18369818.10 18369818.19 18369818.28 0.2657 0.1362 *

Jupiter 45585-05-29 00:00 G 18370787.37 18370787.50 18370787.62 0.0517 0.0056

Venus 45590-05-13 12:29 G 18372597.91 18372598.02 18372598.12 0.3681 0.2747

Neptune 45591-03-09 21:50 G 18372898.41 18372898.41 18372898.43 0.0089 0.0089

Saturn 45591-04-23 12:29 G 18372942.87 18372943.02 18372943.18 0.0265 0.0155

Neptune 45591-06-05 23:02 G 18372986.42 18372986.46 18372986.52 0.0089 0.0081

Jupiter 45591-07-20 04:48 G 18373030.51 18373030.70 18373030.89 0.0509 0.0035

Saturn 45591-07-21 10:48 G 18373031.76 18373031.95 18373032.14 0.0266 0.0032

Neptune 45591-09-02 00:29 G 18373074.45 18373074.52 18373074.60 0.0089 0.0073

Saturn 45591-10-18 09:07 G 18373120.77 18373120.88 18373120.99 0.0267 0.0220

Neptune 45591-11-29 01:41 G 18373162.49 18373162.57 18373162.66 0.0089 0.0066

Neptune 45592-02-25 03:07 G 18373250.53 18373250.63 18373250.73 0.0089 0.0058

Earth 45592-04-06 03:07 G 18373291.47 18373291.63 18373291.78 0.2676 0.0960

Moon 45592-04-06 03:22 G 18373291.49 18373291.64 18373291.79 0.2683 0.0917 *

Neptune 45592-05-23 04:05 G 18373338.57 18373338.67 18373338.79 0.0089 0.0051

Neptune 45592-08-19 05:31 G 18373426.62 18373426.73 18373426.85 0.0089 0.0043

Neptune 45592-11-15 06:43 G 18373514.67 18373514.78 18373514.91 0.0089 0.0036

Neptune 45593-02-11 07:55 G 18373602.71 18373602.83 18373602.96 0.0089 0.0028

Neptune 45593-05-10 09:07 G 18373690.76 18373690.88 18373691.02 0.0089 0.0021

Neptune 45593-08-06 10:34 G 18373778.81 18373778.94 18373779.07 0.0089 0.0013

Neptune 45593-11-02 11:46 G 18373866.86 18373866.99 18373867.12 0.0089 0.0006

Neptune 45594-01-29 13:12 G 18373954.91 18373955.05 18373955.18 0.0089 0.0004

Neptune 45594-04-27 14:10 G 18374042.97 18374043.09 18374043.23 0.0089 0.0011

Neptune 45594-07-24 15:36 G 18374131.02 18374131.15 18374131.28 0.0089 0.0018

Neptune 45594-10-20 16:48 G 18374219.08 18374219.20 18374219.33 0.0089 0.0025

Neptune 45595-01-16 18:00 G 18374307.13 18374307.25 18374307.38 0.0089 0.0033

Neptune 45595-04-14 19:12 G 18374395.19 18374395.30 18374395.42 0.0089 0.0041

Neptune 45595-07-11 20:38 G 18374483.25 18374483.36 18374483.47 0.0089 0.0048

Moon 45595-10-05 08:53 G 18374568.76 18374568.87 18374568.98 0.2657 0.0256

Earth 45595-10-05 09:36 G 18374568.79 18374568.90 18374569.00 0.2656 0.0164 *

Neptune 45595-10-07 21:36 G 18374571.31 18374571.40 18374571.51 0.0089 0.0056

Mars 45596-01-02 12:00 G 18374657.92 18374658.00 18374658.07 0.1924 0.1379

Neptune 45596-01-03 22:48 G 18374659.37 18374659.45 18374659.55 0.0089 0.0064

Neptune 45596-04-01 00:14 G 18374747.44 18374747.51 18374747.59 0.0089 0.0071

Neptune 45596-06-28 01:26 G 18374835.51 18374835.56 18374835.63 0.0089 0.0078

Neptune 45596-09-24 02:53 G 18374923.59 18374923.62 18374923.65 0.0089 0.0086

Jupiter 45597-03-17 04:34 G 18375097.57 18375097.69 18375097.81 0.0517 0.0094

Jupiter 45597-06-14 08:10 G 18375186.81 18375186.84 18375186.88 0.0515 0.0493

Venus 45598-08-29 17:46 G 18375628.20 18375628.24 18375628.29 0.3690 0.3274

Mars 45598-10-09 10:34 G 18375668.78 18375668.94 18375669.10 0.1609 0.0634

Jupiter 45603-05-08 01:26 G 18377340.38 18377340.56 18377340.73 0.0509 0.0175

Venus 45604-03-14 09:07 G 18377651.78 18377651.88 18377651.97 0.3690 0.1153

Saturn 45604-09-03 02:38 G 18377824.56 18377824.61 18377824.66 0.0298 0.0275

Saturn 45604-11-30 14:24 G 18377912.99 18377913.10 18377913.23 0.0297 0.0104

Saturn 45605-02-27 02:24 G 18378001.47 18378001.60 18378001.72 0.0296 0.0068

Earth 45605-04-09 13:12 G 18378042.96 18378043.05 18378043.14 0.2677 0.2194

Moon 45605-04-09 14:38 G 18378043.04 18378043.11 18378043.17 0.2681 0.2419 *

Mars 45605-05-24 20:10 G 18378088.23 18378088.34 18378088.46 0.1921 0.0105

Saturn 45605-05-26 14:10 G 18378090.01 18378090.09 18378090.16 0.0295 0.0235

Mars 45608-02-29 11:46 G 18379098.84 18379098.99 18379099.13 0.1612 0.0815

Moon 45608-10-07 02:10 G 18379319.49 18379319.59 18379319.69 0.2660 0.1005

Earth 45608-10-07 02:38 G 18379319.51 18379319.61 18379319.70 0.2655 0.1075 *

Jupiter 45609-01-03 09:22 G 18379407.78 18379407.89 18379408.00 0.0518 0.0242

Jupiter 45609-04-02 12:58 G 18379496.95 18379497.04 18379497.14 0.0516 0.0349

Venus 45609-09-28 00:14 G 18379675.41 18379675.51 18379675.61 0.3689 0.0998

Uranus 45610-02-05 04:48 G 18379805.63 18379805.70 18379805.79 0.0137 0.0125

Uranus 45610-05-04 12:43 G 18379893.90 18379894.03 18379894.18 0.0137 0.0096

Uranus 45610-07-31 20:38 G 18379982.20 18379982.36 18379982.54 0.0137 0.0067

Uranus 45610-10-28 04:34 G 18380070.51 18380070.69 18380070.89 0.0137 0.0038

Uranus 45611-01-24 12:29 G 18380158.83 18380159.02 18380159.22 0.0137 0.0009

Uranus 45611-04-22 20:10 G 18380247.15 18380247.34 18380247.54 0.0137 0.0021

Uranus 45611-07-20 03:50 G 18380335.49 18380335.66 18380335.86 0.0137 0.0050

Uranus 45611-10-16 11:46 G 18380423.84 18380423.99 18380424.16 0.0136 0.0078

Uranus 45612-01-12 19:26 G 18380512.20 18380512.31 18380512.44 0.0136 0.0106

Uranus 45612-04-10 03:07 G 18380600.61 18380600.63 18380600.67 0.0136 0.0135

Mars 45614-10-15 05:02 G 18381518.64 18381518.71 18381518.78 0.1918 0.1474

Jupiter 45615-02-23 21:36 G 18381650.28 18381650.40 18381650.52 0.0508 0.0391

Venus 45615-04-13 15:22 G 18381699.09 18381699.14 18381699.19 0.3689 0.3154

Jupiter 45615-05-25 12:29 G 18381740.99 18381741.02 18381741.06 0.0510 0.0499

Moon 45615-10-01 04:05 G 18381869.62 18381869.67 18381869.72 0.2651 0.2319

Earth 45615-10-01 04:19 G 18381869.63 18381869.68 18381869.72 0.2657 0.2347 *

Saturn 45620-09-09 09:50 G 18383674.81 18383674.91 18383675.02 0.0265 0.0221

Jupiter 45620-10-22 13:55 G 18383718.00 18383718.08 18383718.17 0.0518 0.0390

Saturn 45620-12-07 08:10 G 18383763.64 18383763.84 18383764.03 0.0266 0.0035

Jupiter 45621-01-19 17:46 G 18383807.13 18383807.24 18383807.36 0.0517 0.0206

Saturn 45621-03-06 06:14 G 18383852.61 18383852.76 18383852.92 0.0267 0.0154

Earth 45621-10-09 19:26 G 18384070.26 18384070.31 18384070.37 0.2654 0.2276

Moon 45621-10-09 19:41 G 18384070.27 18384070.32 18384070.37 0.2661 0.2331 *

Jupiter 45627-03-13 08:24 G 18386050.70 18386050.85 18386051.01 0.0509 0.0280

Moon 45628-10-02 20:38 G 18386620.27 18386620.36 18386620.46 0.2653 0.1252

Earth 45628-10-02 21:07 G 18386620.29 18386620.38 18386620.48 0.2656 0.1127 *

Jupiter 45632-11-07 23:02 G 18388117.34 18388117.46 18388117.59 0.0517 0.0065

Saturn 45634-04-19 15:50 G 18388645.05 18388645.16 18388645.27 0.0297 0.0164

Saturn 45634-07-17 03:36 G 18388733.53 18388733.65 18388733.78 0.0296 0.0011

Saturn 45634-10-13 15:22 G 18388822.04 18388822.14 18388822.25 0.0295 0.0176

Mars 45635-07-03 11:46 G 18389084.92 18389084.99 18389085.06 0.1924 0.1531

Earth 45638-04-07 10:05 G 18390093.76 18390093.92 18390094.08 0.2676 0.0390

Moon 45638-04-07 10:34 G 18390093.78 18390093.94 18390094.10 0.2683 0.0379 *

Mars 45638-04-09 11:17 G 18390095.83 18390095.97 18390096.11 0.1609 0.0859

Jupiter 45638-12-30 03:22 G 18390360.45 18390360.64 18390360.83 0.0509 0.0044

Venus 45641-06-03 04:05 G 18391246.55 18391246.67 18391246.78 0.3681 0.2615

Moon 45641-10-05 13:41 G 18391370.96 18391371.07 18391371.18 0.2658 0.0073

Earth 45641-10-05 14:10 G 18391370.99 18391371.09 18391371.20 0.2656 0.0133 *

Jupiter 45644-08-27 04:05 G 18392427.55 18392427.67 18392427.80 0.0517 0.0075

Mars 45644-11-22 20:24 G 18392515.23 18392515.35 18392515.46 0.1921 0.0111

Jupiter 45644-11-24 07:55 G 18392516.82 18392516.83 18392516.83 0.0515 0.0514

Mars 45647-08-30 12:29 G 18393525.86 18393526.02 18393526.18 0.1612 0.0589

Saturn 45650-04-26 05:31 G 18394495.55 18394495.73 18394495.91 0.0265 0.0097

Saturn 45650-07-24 03:50 G 18394584.48 18394584.66 18394584.84 0.0266 0.0090

Jupiter 45650-10-18 00:00 G 18394670.32 18394670.50 18394670.68 0.0509 0.0166

Uranus 45653-10-22 11:46 G 18395770.93 18395770.99 18395771.05 0.0141 0.0124

Uranus 45654-01-18 15:07 G 18395859.04 18395859.13 18395859.22 0.0141 0.0103

Mars 45654-04-15 04:48 G 18395945.62 18395945.70 18395945.78 0.1917 0.1322

Uranus 45654-04-16 18:29 G 18395947.16 18395947.27 18395947.37 0.0141 0.0082

Uranus 45654-07-13 21:36 G 18396035.29 18396035.40 18396035.52 0.0141 0.0062

Moon 45654-10-08 06:58 G 18396121.70 18396121.79 18396121.88 0.2660 0.1260

Earth 45654-10-08 07:12 G 18396121.71 18396121.80 18396121.90 0.2655 0.1311 *

Uranus 45654-10-10 00:58 G 18396123.42 18396123.54 18396123.67 0.0141 0.0041

Uranus 45655-01-06 04:19 G 18396211.56 18396211.68 18396211.81 0.0142 0.0020

Uranus 45655-04-04 07:41 G 18396299.69 18396299.82 18396299.95 0.0142 0.0004

Venus 45655-04-05 15:07 G 18396301.06 18396301.13 18396301.20 0.3690 0.2501

Uranus 45655-07-01 11:02 G 18396387.83 18396387.96 18396388.09 0.0142 0.0024

Uranus 45655-09-27 14:24 G 18396475.98 18396476.10 18396476.23 0.0142 0.0045

Uranus 45655-12-24 17:46 G 18396564.13 18396564.24 18396564.36 0.0142 0.0066

Uranus 45656-03-21 21:07 G 18396652.28 18396652.38 18396652.49 0.0142 0.0088

Jupiter 45656-06-15 08:53 G 18396737.75 18396737.87 18396737.98 0.0517 0.0223

Uranus 45656-06-18 00:29 G 18396740.44 18396740.52 18396740.61 0.0142 0.0110

Jupiter 45656-09-12 12:29 G 18396826.93 18396827.02 18396827.11 0.0515 0.0367

Uranus 45656-09-14 03:50 G 18396828.62 18396828.66 18396828.72 0.0142 0.0131

Venus 45660-10-19 06:29 G 18398324.66 18398324.77 18398324.87 0.3689 0.0399

Moon 45661-10-01 08:38 G 18398671.80 18398671.86 18398671.92 0.2651 0.2192

Earth 45661-10-01 08:53 G 18398671.81 18398671.87 18398671.94 0.2657 0.2104 *

Jupiter 45662-08-05 20:38 G 18398980.24 18398980.36 18398980.49 0.0508 0.0374

Saturn 45663-09-06 16:19 G 18399377.11 18399377.18 18399377.26 0.0298 0.0236

Saturn 45663-12-04 04:19 G 18399465.56 18399465.68 18399465.81 0.0297 0.0064

Saturn 45664-03-01 16:05 G 18399554.05 18399554.17 18399554.29 0.0296 0.0106

Saturn 45664-05-29 03:50 G 18399642.62 18399642.66 18399642.71 0.0295 0.0274

Venus 45666-05-04 21:36 G 18400348.31 18400348.40 18400348.49 0.3689 0.1782

Earth 45667-10-11 00:14 G 18400872.48 18400872.51 18400872.54 0.2654 0.2514

Moon 45667-10-11 00:29 G 18400872.49 18400872.52 18400872.55 0.2661 0.2541 *

Jupiter 45668-04-03 13:26 G 18401047.98 18401048.06 18401048.15 0.0518 0.0370

Jupiter 45668-07-01 17:17 G 18401137.11 18401137.22 18401137.33 0.0516 0.0222

Jupiter 45674-08-23 07:55 G 18403380.68 18403380.83 18403380.98 0.0509 0.0300

Moon 45674-10-04 01:26 G 18403422.46 18403422.56 18403422.66 0.2654 0.0911

Earth 45674-10-04 01:55 G 18403422.48 18403422.58 18403422.68 0.2656 0.0884 *

Mars 45675-01-01 11:46 G 18403511.94 18403511.99 18403512.04 0.1925 0.1701

Neptune 45675-11-05 14:10 G 18403820.04 18403820.09 18403820.18 0.0089 0.0082

Neptune 45676-02-01 18:00 G 18403908.15 18403908.25 18403908.39 0.0089 0.0071

Neptune 45676-04-29 22:05 G 18403996.28 18403996.42 18403996.57 0.0089 0.0059

Neptune 45676-07-27 01:41 G 18404084.42 18404084.57 18404084.75 0.0089 0.0048

Neptune 45676-10-23 05:31 G 18404172.56 18404172.73 18404172.92 0.0089 0.0036

Neptune 45677-01-19 09:22 G 18404260.71 18404260.89 18404261.09 0.0089 0.0025

Neptune 45677-04-17 13:12 G 18404348.86 18404349.05 18404349.25 0.0089 0.0013

Neptune 45677-07-14 17:02 G 18404437.01 18404437.21 18404437.41 0.0089 0.0002

Mars 45677-10-08 12:00 G 18404522.88 18404523.00 18404523.13 0.1609 0.1095

Neptune 45677-10-10 20:53 G 18404525.17 18404525.37 18404525.57 0.0089 0.0010

Neptune 45678-01-07 00:29 G 18404613.33 18404613.52 18404613.72 0.0089 0.0022

Neptune 45678-04-05 04:19 G 18404701.50 18404701.68 18404701.87 0.0089 0.0033

Neptune 45678-07-02 07:55 G 18404789.67 18404789.83 18404790.01 0.0089 0.0045

Neptune 45678-09-28 11:46 G 18404877.84 18404877.99 18404878.15 0.0089 0.0056

Neptune 45678-12-25 15:07 G 18404966.03 18404966.13 18404966.28 0.0089 0.0068

Neptune 45679-03-23 18:58 G 18405054.22 18405054.29 18405054.40 0.0089 0.0079

Saturn 45679-09-13 02:53 G 18405227.47 18405227.62 18405227.77 0.0265 0.0163

Saturn 45679-12-11 00:58 G 18405316.35 18405316.54 18405316.73 0.0266 0.0023

Saturn 45680-03-08 23:02 G 18405405.35 18405405.46 18405405.58 0.0267 0.0211

Jupiter 45680-04-19 22:05 G 18405447.30 18405447.42 18405447.55 0.0517 0.0076

Earth 45684-04-07 17:02 G 18406896.05 18406896.21 18406896.38 0.2676 0.0175

Moon 45684-04-07 17:46 G 18406896.08 18406896.24 18406896.40 0.2682 0.0311 *

Mars 45684-05-23 20:24 G 18406942.23 18406942.35 18406942.46 0.1921 0.0280

Jupiter 45686-06-11 03:50 G 18407690.48 18407690.66 18407690.85 0.0509 0.0081

Mars 45687-02-28 13:12 G 18407952.88 18407953.05 18407953.21 0.1612 0.0363

Moon 45687-10-06 18:29 G 18408173.16 18408173.27 18408173.37 0.2659 0.0221

Earth 45687-10-06 18:58 G 18408173.18 18408173.29 18408173.40 0.2655 0.0337 *

Jupiter 45692-02-07 03:22 G 18409757.51 18409757.64 18409757.76 0.0517 0.0065

Saturn 45693-01-23 17:46 G 18410109.24 18410109.24 18410109.24 0.0298 0.0298

Saturn 45693-04-22 05:31 G 18410197.62 18410197.73 18410197.85 0.0297 0.0126

Saturn 45693-07-19 17:31 G 18410286.10 18410286.23 18410286.36 0.0296 0.0046

Mars 45693-10-14 04:48 G 18410372.61 18410372.70 18410372.79 0.1917 0.1158

Saturn 45693-10-16 05:17 G 18410374.63 18410374.72 18410374.81 0.0295 0.0214

Uranus 45694-02-25 13:41 G 18410506.97 18410507.07 18410507.19 0.0137 0.0112

Uranus 45694-05-24 21:36 G 18410595.25 18410595.40 18410595.57 0.0137 0.0083

Uranus 45694-08-21 05:31 G 18410683.56 18410683.73 18410683.92 0.0137 0.0054

Uranus 45694-11-17 13:26 G 18410771.87 18410772.06 18410772.26 0.0137 0.0025

Uranus 45695-02-13 21:22 G 18410860.20 18410860.39 18410860.59 0.0137 0.0005

Uranus 45695-05-13 05:02 G 18410948.53 18410948.71 18410948.91 0.0137 0.0034

Uranus 45695-08-09 12:58 G 18411036.87 18411037.04 18411037.22 0.0137 0.0062

Uranus 45695-11-05 20:38 G 18411125.22 18411125.36 18411125.51 0.0136 0.0091

Uranus 45696-02-02 04:05 G 18411213.60 18411213.67 18411213.78 0.0136 0.0120

Venus 45698-01-08 06:43 G 18411919.62 18411919.78 18411919.94 0.3681 0.0071

Jupiter 45698-03-29 22:34 G 18412000.26 18412000.44 18412000.62 0.0509 0.0157

Moon 45700-10-09 11:46 G 18412923.91 18412923.99 18412924.08 0.2661 0.1558

Earth 45700-10-09 12:00 G 18412923.91 18412924.00 18412924.09 0.2655 0.1543 *

Jupiter 45703-11-27 08:24 G 18414067.74 18414067.85 18414067.97 0.0517 0.0201

Jupiter 45704-02-24 12:00 G 18414156.93 18414157.00 18414157.09 0.0515 0.0389

Pluto 45705-02-04 23:02 G 18414503.42 18414503.46 18414503.52 0.0068 0.0063

Pluto 45705-05-03 23:46 G 18414591.41 18414591.49 18414591.58 0.0068 0.0052

Pluto 45705-07-31 00:14 G 18414679.41 18414679.51 18414679.62 0.0068 0.0042

Pluto 45705-10-27 00:58 G 18414767.42 18414767.54 18414767.66 0.0068 0.0032

Pluto 45706-01-23 01:26 G 18414855.44 18414855.56 18414855.69 0.0068 0.0021

Pluto 45706-04-21 01:55 G 18414943.45 18414943.58 18414943.72 0.0068 0.0011

Pluto 45706-07-18 02:38 G 18415031.47 18415031.61 18415031.74 0.0069 0.0001

Pluto 45706-10-14 03:07 G 18415119.50 18415119.63 18415119.76 0.0069 0.0011

Pluto 45707-01-10 03:36 G 18415207.53 18415207.65 18415207.78 0.0069 0.0021

Pluto 45707-04-08 04:05 G 18415295.56 18415295.67 18415295.79 0.0069 0.0032

Pluto 45707-07-05 04:34 G 18415383.60 18415383.69 18415383.80 0.0069 0.0043

Pluto 45707-10-01 05:02 G 18415471.64 18415471.71 18415471.80 0.0069 0.0054

Moon 45707-10-03 13:12 G 18415473.98 18415474.05 18415474.13 0.2651 0.1867

Earth 45707-10-03 13:41 G 18415473.99 18415474.07 18415474.14 0.2657 0.1861 *

Pluto 45707-12-28 05:46 G 18415559.70 18415559.74 18415559.79 0.0069 0.0065

Saturn 45709-01-31 00:43 G 18415959.43 18415959.53 18415959.63 0.0264 0.0223

Saturn 45709-04-29 22:48 G 18416048.26 18416048.45 18416048.64 0.0265 0.0038

Saturn 45709-07-27 20:53 G 18416137.21 18416137.37 18416137.53 0.0266 0.0149

Jupiter 45710-01-16 19:12 G 18416310.17 18416310.30 18416310.43 0.0508 0.0367

Venus 45711-11-11 12:29 G 18416973.93 18416974.02 18416974.11 0.3690 0.1723

Mars 45714-07-03 11:46 G 18417938.96 18417938.99 18417939.01 0.1924 0.1862

Jupiter 45715-09-15 12:58 G 18418377.95 18418378.04 18418378.13 0.0518 0.0351

Jupiter 45715-12-13 16:48 G 18418467.09 18418467.20 18418467.31 0.0516 0.0240

Moon 45717-04-06 13:55 G 18418947.00 18418947.08 18418947.16 0.2682 0.2305

Earth 45717-04-06 14:10 G 18418947.02 18418947.09 18418947.16 0.2675 0.2386 *

Mars 45717-04-09 12:43 G 18418949.93 18418950.03 18418950.13 0.1609 0.1309

Venus 45717-05-27 03:36 G 18418997.55 18418997.65 18418997.75 0.3689 0.0451

Moon 45720-10-05 06:00 G 18420224.65 18420224.75 18420224.85 0.2656 0.0782

Earth 45720-10-05 06:43 G 18420224.67 18420224.78 18420224.88 0.2656 0.0642 *

Jupiter 45722-02-03 06:58 G 18420710.64 18420710.79 18420710.94 0.0510 0.0316

Saturn 45722-09-10 06:14 G 18420929.67 18420929.76 18420929.86 0.0298 0.0196

Saturn 45722-12-07 18:14 G 18421018.13 18421018.26 18421018.39 0.0297 0.0024

Venus 45722-12-10 18:58 G 18421021.22 18421021.29 18421021.36 0.3689 0.2572

Saturn 45723-03-06 06:00 G 18421106.64 18421106.75 18421106.86 0.0296 0.0146

Mars 45723-11-23 20:10 G 18421369.23 18421369.34 18421369.45 0.1921 0.0420

Mars 45726-08-30 13:55 G 18422379.91 18422380.08 18422380.25 0.1612 0.0140

Jupiter 45727-07-04 17:31 G 18422688.21 18422688.23 18422688.27 0.0518 0.0501

Jupiter 45727-10-01 21:36 G 18422777.27 18422777.40 18422777.52 0.0516 0.0094

Earth 45730-04-10 00:14 G 18423698.35 18423698.51 18423698.66 0.2676 0.0744

Moon 45730-04-10 01:12 G 18423698.40 18423698.55 18423698.71 0.2681 0.0779 *

Mars 45733-04-15 04:48 G 18424799.60 18424799.70 18424799.80 0.1917 0.0987

Moon 45733-10-07 23:02 G 18424975.36 18424975.46 18424975.57 0.2659 0.0560

Earth 45733-10-07 23:46 G 18424975.38 18424975.49 18424975.59 0.2655 0.0573 *

Jupiter 45733-11-22 03:07 G 18425020.45 18425020.63 18425020.82 0.0509 0.0099

Mars 45736-01-20 14:53 G 18425810.10 18425810.12 18425810.15 0.1615 0.1588

Uranus 45737-08-16 15:50 G 18426384.15 18426384.16 18426384.18 0.0141 0.0139

Uranus 45737-11-12 18:58 G 18426472.23 18426472.29 18426472.37 0.0141 0.0119

Uranus 45738-02-08 22:19 G 18426560.34 18426560.43 18426560.53 0.0141 0.0098

Uranus 45738-05-08 01:41 G 18426648.47 18426648.57 18426648.68 0.0141 0.0077

Uranus 45738-08-04 05:02 G 18426736.59 18426736.71 18426736.83 0.0141 0.0056

Saturn 45738-09-16 20:24 G 18426780.17 18426780.35 18426780.53 0.0265 0.0101

Uranus 45738-10-31 08:24 G 18426824.72 18426824.85 18426824.98 0.0141 0.0035

Saturn 45738-12-14 18:29 G 18426869.09 18426869.27 18426869.45 0.0266 0.0085

Uranus 45739-01-27 11:46 G 18426912.86 18426912.99 18426913.12 0.0141 0.0014

Uranus 45739-04-25 15:07 G 18427001.00 18427001.13 18427001.26 0.0142 0.0007

Jupiter 45739-07-21 02:24 G 18427087.47 18427087.60 18427087.72 0.0517 0.0056

Uranus 45739-07-22 18:29 G 18427089.14 18427089.27 18427089.40 0.0142 0.0029

Uranus 45739-10-18 21:50 G 18427177.29 18427177.41 18427177.53 0.0142 0.0050

Uranus 45740-01-15 00:58 G 18427265.44 18427265.54 18427265.66 0.0142 0.0072

Uranus 45740-04-12 04:34 G 18427353.59 18427353.69 18427353.79 0.0142 0.0093

Uranus 45740-07-09 07:55 G 18427441.76 18427441.83 18427441.91 0.0142 0.0114

Uranus 45740-10-05 11:17 G 18427529.94 18427529.97 18427530.01 0.0142 0.0136

Jupiter 45745-09-09 23:02 G 18429330.28 18429330.46 18429330.65 0.0508 0.0121

Moon 45746-10-10 16:34 G 18429726.11 18429726.19 18429726.27 0.2662 0.1736

Earth 45746-10-10 16:48 G 18429726.12 18429726.20 18429726.27 0.2655 0.1786 *

Jupiter 45751-05-09 07:26 G 18431397.69 18431397.81 18431397.93 0.0518 0.0193

Jupiter 45751-08-06 11:17 G 18431486.89 18431486.97 18431487.05 0.0516 0.0398

Saturn 45752-01-28 07:41 G 18431661.76 18431661.82 18431661.88 0.0298 0.0256

Saturn 45752-04-25 19:41 G 18431750.20 18431750.32 18431750.44 0.0297 0.0084

Saturn 45752-07-23 07:26 G 18431838.69 18431838.81 18431838.94 0.0296 0.0087

Saturn 45752-10-19 19:12 G 18431927.24 18431927.30 18431927.37 0.0295 0.0255

Moon 45753-10-03 18:00 G 18432276.17 18432276.25 18432276.33 0.2652 0.1699

Earth 45753-10-03 18:29 G 18432276.18 18432276.27 18432276.35 0.2657 0.1623 *

Venus 45754-08-16 09:07 G 18432592.77 18432592.88 18432593.00 0.3681 0.2620

Neptune 45755-12-05 20:53 G 18433069.37 18433069.37 18433069.40 0.0089 0.0088

Neptune 45756-03-02 22:05 G 18433157.38 18433157.42 18433157.49 0.0089 0.0081

Neptune 45756-05-29 23:31 G 18433245.41 18433245.48 18433245.56 0.0089 0.0073

Neptune 45756-08-26 00:58 G 18433333.45 18433333.54 18433333.63 0.0089 0.0065

Mars 45756-10-08 13:26 G 18433377.01 18433377.06 18433377.11 0.1609 0.1535

Neptune 45756-11-22 01:55 G 18433421.49 18433421.58 18433421.69 0.0089 0.0058

Neptune 45757-02-18 03:22 G 18433509.54 18433509.64 18433509.75 0.0089 0.0050

Neptune 45757-05-17 04:34 G 18433597.58 18433597.69 18433597.81 0.0089 0.0043

Jupiter 45757-06-28 17:46 G 18433640.11 18433640.24 18433640.37 0.0508 0.0360

Neptune 45757-08-13 05:46 G 18433685.63 18433685.74 18433685.87 0.0089 0.0035

Neptune 45757-11-09 06:58 G 18433773.67 18433773.79 18433773.92 0.0089 0.0028

Neptune 45758-02-05 08:24 G 18433861.72 18433861.85 18433861.98 0.0089 0.0020

Neptune 45758-05-04 09:36 G 18433949.77 18433949.90 18433950.03 0.0089 0.0012

Neptune 45758-07-31 10:48 G 18434037.82 18434037.95 18434038.09 0.0089 0.0006

Neptune 45758-10-27 12:14 G 18434125.88 18434126.01 18434126.14 0.0089 0.0004

Neptune 45759-01-23 13:26 G 18434213.93 18434214.06 18434214.19 0.0089 0.0011

Neptune 45759-04-21 14:38 G 18434301.98 18434302.11 18434302.24 0.0089 0.0018

Neptune 45759-07-18 15:50 G 18434390.04 18434390.16 18434390.29 0.0089 0.0026

Neptune 45759-10-14 17:02 G 18434478.09 18434478.21 18434478.34 0.0089 0.0034

Neptune 45760-01-10 18:29 G 18434566.15 18434566.27 18434566.38 0.0089 0.0041

Neptune 45760-04-07 19:26 G 18434654.21 18434654.31 18434654.43 0.0089 0.0049

Neptune 45760-07-04 20:53 G 18434742.27 18434742.37 18434742.47 0.0089 0.0056

Neptune 45760-09-30 22:05 G 18434830.34 18434830.42 18434830.52 0.0089 0.0064

Neptune 45760-12-27 23:17 G 18434918.40 18434918.47 18434918.55 0.0089 0.0071

Neptune 45761-03-26 00:29 G 18435006.47 18435006.52 18435006.59 0.0089 0.0079

Neptune 45761-06-22 01:41 G 18435094.56 18435094.57 18435094.61 0.0089 0.0087

Venus 45762-12-02 18:43 G 18435623.22 18435623.28 18435623.33 0.3690 0.3076

Jupiter 45763-02-25 12:29 G 18435707.93 18435708.02 18435708.12 0.0518 0.0332

Earth 45763-04-07 21:07 G 18435749.26 18435749.38 18435749.50 0.2675 0.1822

Moon 45763-04-07 21:07 G 18435749.27 18435749.38 18435749.49 0.2682 0.1946 *

Mars 45763-05-24 20:10 G 18435796.23 18435796.34 18435796.45 0.1921 0.0592

Jupiter 45763-05-25 16:19 G 18435797.07 18435797.18 18435797.29 0.0516 0.0260

Mars 45766-02-28 14:24 G 18436806.93 18436807.10 18436807.28 0.1612 0.0096

Moon 45766-10-06 10:48 G 18437026.84 18437026.95 18437027.05 0.2657 0.0451

Earth 45766-10-06 11:31 G 18437026.87 18437026.98 18437027.08 0.2656 0.0408 *

Saturn 45768-02-03 18:29 G 18437512.12 18437512.27 18437512.43 0.0264 0.0158

Saturn 45768-05-02 16:48 G 18437601.00 18437601.20 18437601.39 0.0265 0.0028

Venus 45768-06-17 09:50 G 18437646.81 18437646.91 18437647.01 0.3690 0.0940

Saturn 45768-07-30 14:38 G 18437690.01 18437690.11 18437690.23 0.0266 0.0215

Jupiter 45769-07-16 05:02 G 18438040.57 18438040.71 18438040.86 0.0510 0.0320

Mars 45772-10-14 04:48 G 18439226.60 18439226.70 18439226.80 0.1917 0.0831

Venus 45774-01-01 00:58 G 18439670.45 18439670.54 18439670.64 0.3689 0.1205

Jupiter 45774-12-14 17:02 G 18440018.17 18440018.21 18440018.26 0.0518 0.0483

Jupiter 45775-03-13 20:53 G 18440107.25 18440107.37 18440107.50 0.0516 0.0111

Mars 45775-07-21 15:36 G 18440237.06 18440237.15 18440237.23 0.1615 0.1372

Earth 45776-04-10 07:12 G 18440500.66 18440500.80 18440500.94 0.2676 0.1309

Moon 45776-04-10 08:38 G 18440500.73 18440500.86 18440500.99 0.2681 0.1594 *

Uranus 45777-12-20 13:41 G 18441120.03 18441120.07 18441120.12 0.0137 0.0133

Uranus 45778-03-18 21:22 G 18441208.28 18441208.39 18441208.53 0.0137 0.0104

Uranus 45778-06-15 05:17 G 18441296.57 18441296.72 18441296.90 0.0137 0.0075

Uranus 45778-09-11 13:26 G 18441384.88 18441385.06 18441385.25 0.0137 0.0045

Uranus 45778-12-08 21:22 G 18441473.20 18441473.39 18441473.59 0.0137 0.0015

Uranus 45779-03-07 05:17 G 18441561.53 18441561.72 18441561.92 0.0137 0.0014

Uranus 45779-06-03 12:58 G 18441649.86 18441650.04 18441650.23 0.0137 0.0043

Venus 45779-07-17 16:19 G 18441694.14 18441694.18 18441694.21 0.3689 0.3364

Uranus 45779-08-30 20:38 G 18441738.21 18441738.36 18441738.54 0.0137 0.0072

Moon 45779-10-09 04:05 G 18441777.56 18441777.67 18441777.77 0.2660 0.0704

Earth 45779-10-09 04:19 G 18441777.58 18441777.68 18441777.79 0.2655 0.0823 *

Uranus 45779-11-27 04:19 G 18441826.57 18441826.68 18441826.83 0.0137 0.0101

Uranus 45780-02-23 12:14 G 18441914.96 18441915.01 18441915.08 0.0136 0.0129

Jupiter 45781-05-04 01:41 G 18442350.39 18442350.57 18442350.76 0.0509 0.0110

Saturn 45781-09-12 20:24 G 18442482.25 18442482.35 18442482.46 0.0298 0.0153

Saturn 45781-12-10 08:24 G 18442570.72 18442570.85 18442570.98 0.0297 0.0020

Saturn 45782-03-08 20:10 G 18442659.24 18442659.34 18442659.44 0.0296 0.0189

Moon 45786-10-02 06:00 G 18444327.73 18444327.75 18444327.77 0.2651 0.2588

Earth 45786-10-02 06:00 G 18444327.73 18444327.75 18444327.77 0.2658 0.2606 *

Jupiter 45786-12-31 01:41 G 18444417.44 18444417.57 18444417.69 0.0517 0.0038

Pluto 45791-09-01 12:14 G 18446122.95 18446123.01 18446123.11 0.0076 0.0068

Pluto 45791-11-28 14:38 G 18446210.98 18446211.11 18446211.28 0.0075 0.0048

Pluto 45792-02-24 17:31 G 18446299.06 18446299.23 18446299.42 0.0075 0.0027

Pluto 45792-05-22 20:10 G 18446387.15 18446387.34 18446387.53 0.0075 0.0006

Pluto 45792-08-18 22:19 G 18446475.25 18446475.43 18446475.63 0.0075 0.0015

Earth 45792-10-10 21:22 G 18446528.32 18446528.39 18446528.46 0.2654 0.2017

Moon 45792-10-10 21:22 G 18446528.33 18446528.39 18446528.46 0.2662 0.2080 *

Pluto 45792-11-15 00:43 G 18446563.37 18446563.53 18446563.72 0.0075 0.0034

Pluto 45793-02-11 03:07 G 18446651.51 18446651.63 18446651.78 0.0075 0.0054

Jupiter 45793-02-19 22:05 G 18446660.23 18446660.42 18446660.60 0.0509 0.0108

Pluto 45793-05-10 05:31 G 18446739.72 18446739.73 18446739.78 0.0075 0.0074

Saturn 45797-06-22 16:19 G 18448244.08 18448244.18 18448244.30 0.0264 0.0219

Saturn 45797-09-19 14:38 G 18448332.92 18448333.11 18448333.30 0.0265 0.0033

Saturn 45797-12-17 12:43 G 18448421.88 18448422.03 18448422.19 0.0266 0.0154

Jupiter 45798-10-19 06:14 G 18448727.64 18448727.76 18448727.88 0.0518 0.0187

Jupiter 45799-01-16 10:05 G 18448816.84 18448816.92 18448816.99 0.0516 0.0403

Moon 45799-10-04 22:34 G 18449078.35 18449078.44 18449078.53 0.2653 0.1450

Earth 45799-10-04 23:02 G 18449078.37 18449078.46 18449078.55 0.2657 0.1383 *

Mars 45802-11-23 20:10 G 18450223.24 18450223.34 18450223.45 0.1921 0.0771

Jupiter 45804-12-09 17:46 G 18450970.10 18450970.24 18450970.39 0.0508 0.0327

Mars 45805-08-30 15:22 G 18451233.97 18451234.14 18451234.31 0.1612 0.0321

Venus 45805-09-07 00:43 G 18451241.42 18451241.53 18451241.63 0.3681 0.2807

Earth 45809-04-09 04:19 G 18452551.53 18452551.68 18452551.82 0.2675 0.1253

Moon 45809-04-09 04:34 G 18452551.54 18452551.69 18452551.83 0.2682 0.1137 *

Jupiter 45810-08-08 11:17 G 18453037.88 18453037.97 18453038.07 0.0518 0.0327

Jupiter 45810-11-05 15:07 G 18453127.03 18453127.13 18453127.24 0.0516 0.0266

Saturn 45811-01-31 22:19 G 18453214.34 18453214.43 18453214.52 0.0298 0.0208

Saturn 45811-04-30 10:05 G 18453302.80 18453302.92 18453303.05 0.0297 0.0036

Saturn 45811-07-27 21:50 G 18453391.30 18453391.41 18453391.53 0.0296 0.0135

Mars 45812-04-15 04:34 G 18453653.59 18453653.69 18453653.80 0.1917 0.0673

Moon 45812-10-07 15:36 G 18453829.04 18453829.15 18453829.25 0.2657 0.0311

Earth 45812-10-07 16:05 G 18453829.07 18453829.17 18453829.28 0.2656 0.0185 *

Mars 45815-01-20 16:19 G 18454664.06 18454664.18 18454664.30 0.1615 0.1146

Jupiter 45816-12-27 03:07 G 18455370.49 18455370.63 18455370.78 0.0510 0.0323

Venus 45819-07-10 16:05 G 18456296.09 18456296.17 18456296.24 0.3690 0.2310

Uranus 45821-09-06 23:31 G 18457085.44 18457085.48 18457085.52 0.0141 0.0132

Uranus 45821-12-04 02:38 G 18457173.54 18457173.61 18457173.69 0.0141 0.0112

Uranus 45822-03-02 06:00 G 18457261.66 18457261.75 18457261.85 0.0141 0.0091

Earth 45822-04-12 14:24 G 18457302.98 18457303.10 18457303.21 0.2676 0.1883

Moon 45822-04-12 15:50 G 18457303.05 18457303.16 18457303.27 0.2682 0.1944 *

Jupiter 45822-05-27 16:19 G 18457348.13 18457348.18 18457348.24 0.0519 0.0468

Uranus 45822-05-29 09:22 G 18457349.78 18457349.89 18457350.01 0.0141 0.0070

Jupiter 45822-08-24 20:24 G 18457437.22 18457437.35 18457437.47 0.0517 0.0128

Uranus 45822-08-25 12:43 G 18457437.91 18457438.03 18457438.15 0.0141 0.0049

Uranus 45822-11-21 16:05 G 18457526.04 18457526.17 18457526.30 0.0141 0.0028

Uranus 45823-02-17 19:26 G 18457614.18 18457614.31 18457614.44 0.0141 0.0007

Uranus 45823-05-16 22:48 G 18457702.32 18457702.45 18457702.58 0.0141 0.0015

Uranus 45823-08-13 02:10 G 18457790.46 18457790.59 18457790.71 0.0142 0.0036

Uranus 45823-11-09 05:31 G 18457878.61 18457878.73 18457878.85 0.0142 0.0057

Uranus 45824-02-05 08:38 G 18457966.76 18457966.86 18457966.97 0.0142 0.0079

Uranus 45824-05-03 12:00 G 18458054.92 18458055.00 18458055.10 0.0142 0.0100

Uranus 45824-07-30 15:36 G 18458143.08 18458143.15 18458143.21 0.0142 0.0121

Venus 45825-01-23 07:12 G 18458319.70 18458319.80 18458319.90 0.3689 0.0174

Moon 45825-10-10 08:53 G 18458579.77 18458579.87 18458579.97 0.2661 0.1059

Earth 45825-10-10 09:07 G 18458579.78 18458579.88 18458579.98 0.2655 0.1053 *

Saturn 45827-02-07 13:26 G 18459064.88 18459065.06 18459065.25 0.0265 0.0086

Saturn 45827-05-07 11:31 G 18459153.81 18459153.98 18459154.16 0.0265 0.0101

Jupiter 45828-10-14 23:31 G 18459680.30 18459680.48 18459680.67 0.0509 0.0107

Venus 45830-08-08 22:19 G 18460343.35 18460343.43 18460343.51 0.3689 0.1980

Moon 45832-10-03 10:34 G 18461129.90 18461129.94 18461129.98 0.2651 0.2418

Earth 45832-10-03 10:48 G 18461129.90 18461129.95 18461129.99 0.2658 0.2366 *

Jupiter 45834-06-13 00:58 G 18461747.41 18461747.54 18461747.66 0.0517 0.0030

Moon 45838-10-13 02:10 G 18463330.53 18463330.59 18463330.65 0.2661 0.2218

Earth 45838-10-13 02:10 G 18463330.53 18463330.59 18463330.64 0.2654 0.2258 *

Saturn 45840-06-19 23:31 G 18463946.43 18463946.48 18463946.53 0.0299 0.0272

Jupiter 45840-08-02 20:10 G 18463990.16 18463990.34 18463990.53 0.0509 0.0103

Neptune 45840-08-03 10:48 G 18463990.90 18463990.95 18463991.05 0.0089 0.0082

Saturn 45840-09-16 11:31 G 18464034.86 18464034.98 18464035.10 0.0298 0.0099

Neptune 45840-10-30 14:53 G 18464079.01 18464079.12 18464079.25 0.0089 0.0070

Saturn 45840-12-13 23:17 G 18464123.35 18464123.47 18464123.60 0.0297 0.0073

Neptune 45841-01-26 18:29 G 18464167.14 18464167.27 18464167.44 0.0089 0.0059

Saturn 45841-03-12 11:02 G 18464211.89 18464211.96 18464212.03 0.0296 0.0242

Neptune 45841-04-24 22:34 G 18464255.28 18464255.44 18464255.61 0.0089 0.0047

Neptune 45841-07-22 02:10 G 18464343.42 18464343.59 18464343.78 0.0089 0.0036

Neptune 45841-10-18 06:14 G 18464431.57 18464431.76 18464431.95 0.0089 0.0024

Neptune 45842-01-14 09:50 G 18464519.72 18464519.91 18464520.11 0.0089 0.0013

Neptune 45842-04-12 13:41 G 18464607.88 18464608.07 18464608.27 0.0089 0.0002

Mars 45842-05-24 19:55 G 18464650.23 18464650.33 18464650.43 0.1921 0.0909

Neptune 45842-07-09 17:31 G 18464696.03 18464696.23 18464696.43 0.0089 0.0011

Neptune 45842-10-05 21:22 G 18464784.20 18464784.39 18464784.58 0.0089 0.0022

Neptune 45843-01-02 00:43 G 18464872.36 18464872.53 18464872.73 0.0089 0.0034

Neptune 45843-03-31 04:48 G 18464960.53 18464960.70 18464960.87 0.0089 0.0045

Neptune 45843-06-27 08:10 G 18465048.71 18465048.84 18465049.01 0.0089 0.0057

Neptune 45843-09-23 12:00 G 18465136.89 18465137.00 18465137.14 0.0089 0.0068

Neptune 45843-12-20 15:36 G 18465225.09 18465225.15 18465225.26 0.0089 0.0080

Mars 45845-02-28 16:05 G 18465661.01 18465661.17 18465661.33 0.1612 0.0545

Moon 45845-10-06 03:07 G 18465880.54 18465880.63 18465880.73 0.2655 0.1206

Earth 45845-10-06 03:50 G 18465880.56 18465880.66 18465880.76 0.2657 0.1143 *

Jupiter 45846-04-01 05:31 G 18466057.61 18466057.73 18466057.85 0.0517 0.0173

Jupiter 45846-06-29 09:07 G 18466146.81 18466146.88 18466146.96 0.0515 0.0416

Mars 45851-10-15 04:48 G 18468080.59 18468080.70 18468080.81 0.1917 0.0497

Jupiter 45852-05-21 16:19 G 18468300.04 18468300.18 18468300.33 0.0508 0.0320

Mars 45854-07-21 17:02 G 18469091.07 18469091.21 18469091.35 0.1615 0.0910

Earth 45855-04-10 11:17 G 18469353.81 18469353.97 18469354.13 0.2675 0.0694

Moon 45855-04-10 12:00 G 18469353.84 18469354.00 18469354.16 0.2682 0.0653 *

Saturn 45856-06-26 12:00 G 18469796.84 18469797.00 18469797.16 0.0265 0.0142

Saturn 45856-09-23 10:05 G 18469885.73 18469885.92 18469886.11 0.0266 0.0045

Saturn 45856-12-21 08:10 G 18469974.76 18469974.84 18469974.94 0.0266 0.0233

Jupiter 45858-01-18 10:05 G 18470367.82 18470367.92 18470368.02 0.0518 0.0325

Jupiter 45858-04-17 13:55 G 18470456.97 18470457.08 18470457.18 0.0516 0.0267

Moon 45858-10-08 20:10 G 18470631.24 18470631.34 18470631.45 0.2657 0.0086

Earth 45858-10-08 20:53 G 18470631.26 18470631.37 18470631.48 0.2656 0.0077 *

Mars 45861-03-06 13:12 G 18471511.05 18471511.05 18471511.05 0.1913 0.1912

Uranus 45862-01-10 20:53 G 18471821.31 18471821.37 18471821.47 0.0137 0.0125

Uranus 45862-04-09 05:02 G 18471909.58 18471909.71 18471909.86 0.0137 0.0095

Venus 45862-04-14 03:22 G 18471914.48 18471914.64 18471914.80 0.3681 0.0152

Uranus 45862-07-06 12:58 G 18471997.88 18471998.04 18471998.22 0.0137 0.0065

Uranus 45862-10-02 20:53 G 18472086.19 18472086.37 18472086.57 0.0137 0.0036

Uranus 45862-12-30 05:02 G 18472174.51 18472174.71 18472174.91 0.0137 0.0007

Uranus 45863-03-28 12:43 G 18472262.84 18472263.03 18472263.23 0.0137 0.0023

Uranus 45863-06-24 20:38 G 18472351.18 18472351.36 18472351.55 0.0137 0.0052

Uranus 45863-09-21 04:19 G 18472439.53 18472439.68 18472439.85 0.0137 0.0081

Uranus 45863-12-18 12:00 G 18472527.90 18472528.00 18472528.13 0.0137 0.0110

Jupiter 45864-06-08 03:07 G 18472700.49 18472700.63 18472700.77 0.0509 0.0349

Earth 45868-04-12 21:22 G 18474105.33 18474105.39 18474105.45 0.2677 0.2453

Jupiter 45869-11-06 14:53 G 18474678.08 18474678.12 18474678.18 0.0519 0.0468

Saturn 45870-02-03 13:26 G 18474766.95 18474767.06 18474767.17 0.0298 0.0151

Jupiter 45870-02-03 18:58 G 18474767.17 18474767.29 18474767.41 0.0517 0.0128 *

Saturn 45870-05-03 01:12 G 18474855.43 18474855.55 18474855.68 0.0297 0.0024

Saturn 45870-07-30 12:58 G 18474943.95 18474944.04 18474944.14 0.0296 0.0191

Venus 45870-07-31 22:05 G 18474945.41 18474945.42 18474945.43 0.3690 0.3658

Moon 45871-10-11 13:41 G 18475381.97 18475382.07 18475382.16 0.2661 0.1220

Earth 45871-10-11 13:55 G 18475381.98 18475382.08 18475382.17 0.2655 0.1288 *

Venus 45876-02-14 13:12 G 18476968.96 18476969.05 18476969.14 0.3690 0.1530

Jupiter 45876-03-26 21:22 G 18477010.21 18477010.39 18477010.58 0.0509 0.0106

Moon 45878-10-04 15:07 G 18477932.07 18477932.13 18477932.20 0.2651 0.2107

Earth 45878-10-04 15:36 G 18477932.08 18477932.15 18477932.21 0.2657 0.2127 *

Venus 45881-08-30 04:19 G 18478992.58 18478992.68 18478992.78 0.3689 0.0623

Mars 45881-11-22 20:10 G 18479077.24 18479077.34 18479077.43 0.1921 0.1091

Jupiter 45881-11-23 00:00 G 18479077.37 18479077.50 18479077.62 0.0517 0.0015 *

Mars 45884-08-29 16:48 G 18480088.05 18480088.20 18480088.35 0.1612 0.0771

Earth 45884-10-13 06:43 G 18480132.75 18480132.78 18480132.82 0.2654 0.2492

Moon 45884-10-13 06:58 G 18480132.77 18480132.79 18480132.82 0.2660 0.2578 *

Saturn 45885-11-13 11:17 G 18480528.84 18480528.97 18480529.11 0.0264 0.0190

Saturn 45886-02-10 09:36 G 18480617.70 18480617.90 18480618.09 0.0265 0.0005

Saturn 45886-05-10 07:26 G 18480706.68 18480706.81 18480706.96 0.0266 0.0184

Venus 45887-03-15 19:41 G 18481016.25 18481016.32 18481016.38 0.3689 0.2774

Jupiter 45888-01-13 17:31 G 18481320.05 18481320.23 18481320.42 0.0509 0.0111

Mars 45891-04-15 04:34 G 18482507.58 18482507.69 18482507.80 0.1917 0.0343

Moon 45891-10-07 07:55 G 18482682.73 18482682.83 18482682.93 0.2655 0.1029

Earth 45891-10-07 08:38 G 18482682.76 18482682.86 18482682.96 0.2657 0.0904 *

Jupiter 45893-09-11 04:19 G 18483387.57 18483387.68 18483387.80 0.0517 0.0167

Jupiter 45893-12-09 08:10 G 18483476.77 18483476.84 18483476.91 0.0515 0.0424

Mars 45894-01-19 17:46 G 18483518.08 18483518.24 18483518.39 0.1615 0.0693

Saturn 45899-06-23 15:07 G 18485499.04 18485499.13 18485499.22 0.0298 0.0208

Saturn 45899-09-20 03:07 G 18485587.50 18485587.63 18485587.75 0.0297 0.0037

Jupiter 45899-11-01 13:55 G 18485629.94 18485630.08 18485630.23 0.0508 0.0323

Saturn 45899-12-17 14:53 G 18485676.01 18485676.12 18485676.23 0.0296 0.0135

Mars 45900-09-05 12:58 G 18485938.00 18485938.04 18485938.09 0.1913 0.1762

Earth 45901-04-11 18:14 G 18486156.10 18486156.26 18486156.43 0.2676 0.0126

Moon 45901-04-11 19:12 G 18486156.14 18486156.30 18486156.46 0.2682 0.0047 *

Moon 45904-10-10 00:58 G 18487433.44 18487433.54 18487433.65 0.2659 0.0251

Earth 45904-10-10 01:41 G 18487433.46 18487433.57 18487433.67 0.2656 0.0325 *

Jupiter 45905-07-01 08:53 G 18487697.78 18487697.87 18487697.97 0.0518 0.0317

Uranus 45905-09-28 07:12 G 18487786.75 18487786.80 18487786.86 0.0141 0.0124

Jupiter 45905-09-28 12:43 G 18487786.93 18487787.03 18487787.14 0.0516 0.0276

Uranus 45905-12-25 10:34 G 18487874.86 18487874.94 18487875.03 0.0141 0.0104

Uranus 45906-03-23 13:55 G 18487962.97 18487963.08 18487963.18 0.0141 0.0083

Uranus 45906-06-19 17:02 G 18488051.10 18488051.21 18488051.33 0.0141 0.0062

Uranus 45906-09-15 20:24 G 18488139.23 18488139.35 18488139.48 0.0141 0.0041

Uranus 45906-12-12 23:46 G 18488227.36 18488227.49 18488227.62 0.0141 0.0020

Uranus 45907-03-11 03:07 G 18488315.50 18488315.63 18488315.76 0.0141 0.0001

Uranus 45907-06-07 06:29 G 18488403.64 18488403.77 18488403.90 0.0141 0.0022

Uranus 45907-09-03 09:50 G 18488491.78 18488491.91 18488492.03 0.0141 0.0043

Uranus 45907-11-30 13:12 G 18488579.93 18488580.05 18488580.16 0.0142 0.0065

Uranus 45908-02-26 16:34 G 18488668.09 18488668.19 18488668.29 0.0142 0.0086

Uranus 45908-05-24 19:41 G 18488756.25 18488756.32 18488756.41 0.0142 0.0108

Uranus 45908-08-20 23:02 G 18488844.42 18488844.46 18488844.52 0.0142 0.0129

Jupiter 45911-11-20 00:58 G 18490030.41 18490030.54 18490030.68 0.0510 0.0351

Saturn 45915-04-03 10:19 G 18491260.86 18491260.93 18491261.01 0.0264 0.0241

Saturn 45915-07-01 08:38 G 18491349.67 18491349.86 18491350.05 0.0265 0.0056

Saturn 45915-09-28 06:43 G 18491438.61 18491438.78 18491438.95 0.0266 0.0131

Jupiter 45917-04-19 13:26 G 18492008.01 18492008.06 18492008.11 0.0519 0.0471

Jupiter 45917-07-17 17:17 G 18492097.10 18492097.22 18492097.34 0.0517 0.0125

Moon 45917-10-12 18:14 G 18492184.18 18492184.26 18492184.35 0.2662 0.1526

Earth 45917-10-12 18:29 G 18492184.19 18492184.27 18492184.36 0.2655 0.1524 *

Venus 45918-11-20 06:00 G 18492587.63 18492587.75 18492587.87 0.3681 0.2495

Neptune 45920-09-02 19:55 G 18493240.33 18493240.33 18493240.35 0.0089 0.0088

Neptune 45920-11-29 21:22 G 18493328.34 18493328.39 18493328.45 0.0089 0.0080

Neptune 45921-02-25 22:34 G 18493416.37 18493416.44 18493416.52 0.0089 0.0073

Mars 45921-05-24 20:10 G 18493504.25 18493504.34 18493504.42 0.1921 0.1257

Neptune 45921-05-24 23:46 G 18493504.41 18493504.49 18493504.59 0.0089 0.0065 *

Neptune 45921-08-21 00:58 G 18493592.45 18493592.54 18493592.65 0.0089 0.0058

Neptune 45921-11-17 02:24 G 18493680.49 18493680.60 18493680.71 0.0089 0.0050

Neptune 45922-02-13 03:22 G 18493768.54 18493768.64 18493768.77 0.0089 0.0043

Neptune 45922-05-12 04:48 G 18493856.59 18493856.70 18493856.83 0.0089 0.0035

Neptune 45922-08-08 06:14 G 18493944.63 18493944.76 18493944.88 0.0089 0.0027

Neptune 45922-11-04 07:26 G 18494032.68 18494032.81 18494032.94 0.0089 0.0019

Neptune 45923-01-31 08:38 G 18494120.73 18494120.86 18494120.99 0.0089 0.0012

Neptune 45923-04-29 09:50 G 18494208.78 18494208.91 18494209.05 0.0089 0.0005

Neptune 45923-07-26 11:17 G 18494296.84 18494296.97 18494297.10 0.0089 0.0004

Jupiter 45923-09-07 20:38 G 18494340.18 18494340.36 18494340.55 0.0509 0.0126

Neptune 45923-10-22 12:29 G 18494384.89 18494385.02 18494385.15 0.0089 0.0011

Neptune 45924-01-18 13:41 G 18494472.94 18494473.07 18494473.20 0.0089 0.0018

Mars 45924-02-29 17:31 G 18494515.09 18494515.23 18494515.36 0.1612 0.0997

Neptune 45924-04-15 14:53 G 18494561.00 18494561.12 18494561.25 0.0089 0.0026

Neptune 45924-07-12 16:05 G 18494649.06 18494649.17 18494649.30 0.0089 0.0034

Moon 45924-10-05 19:55 G 18494734.26 18494734.33 18494734.40 0.2653 0.1991

Earth 45924-10-05 20:10 G 18494734.27 18494734.34 18494734.42 0.2657 0.1886 *

Neptune 45924-10-08 17:17 G 18494737.11 18494737.22 18494737.34 0.0089 0.0042

Neptune 45925-01-04 18:43 G 18494825.17 18494825.28 18494825.39 0.0089 0.0049

Neptune 45925-04-02 19:41 G 18494913.23 18494913.32 18494913.43 0.0089 0.0057

Neptune 45925-06-29 21:07 G 18495001.30 18495001.38 18495001.47 0.0089 0.0064

Neptune 45925-09-25 22:19 G 18495089.36 18495089.43 18495089.51 0.0089 0.0072

Neptune 45925-12-22 23:46 G 18495177.43 18495177.49 18495177.55 0.0089 0.0079

Neptune 45926-03-21 00:43 G 18495265.52 18495265.53 18495265.57 0.0089 0.0087

Venus 45927-03-08 19:26 G 18495618.25 18495618.31 18495618.37 0.3690 0.2887

Saturn 45928-11-10 17:31 G 18496231.17 18496231.23 18496231.30 0.0298 0.0254

Saturn 45929-02-07 05:31 G 18496319.61 18496319.73 18496319.85 0.0297 0.0081

Jupiter 45929-05-05 22:19 G 18496407.30 18496407.43 18496407.56 0.0517 0.0017

Saturn 45929-05-06 17:17 G 18496408.10 18496408.22 18496408.35 0.0296 0.0091

Saturn 45929-08-03 05:02 G 18496496.66 18496496.71 18496496.77 0.0295 0.0259

Mars 45930-10-15 04:34 G 18496934.58 18496934.69 18496934.80 0.1917 0.0177

Venus 45932-09-21 10:34 G 18497641.84 18497641.94 18497642.04 0.3689 0.0752

Mars 45933-07-21 18:29 G 18497945.11 18497945.27 18497945.43 0.1615 0.0463

Jupiter 45935-06-26 14:53 G 18498649.94 18498650.12 18498650.31 0.0508 0.0118

Moon 45937-10-08 12:43 G 18499484.92 18499485.03 18499485.13 0.2655 0.0710

Earth 45937-10-08 13:12 G 18499484.95 18499485.05 18499485.16 0.2657 0.0672 *

Venus 45938-04-07 01:41 G 18499665.48 18499665.57 18499665.67 0.3689 0.1396

Mars 45940-03-06 13:12 G 18500364.99 18500365.05 18500365.11 0.1913 0.1583

Jupiter 45941-02-22 03:07 G 18500717.52 18500717.63 18500717.75 0.0518 0.0162

Jupiter 45941-05-22 06:58 G 18500806.73 18500806.79 18500806.86 0.0516 0.0430

Venus 45943-10-21 17:02 G 18501689.19 18501689.21 18501689.23 0.3689 0.3569

Saturn 45944-11-17 08:38 G 18502081.68 18502081.86 18502082.04 0.0265 0.0099

Saturn 45945-02-14 06:43 G 18502170.60 18502170.78 18502170.96 0.0266 0.0088

Uranus 45946-02-01 04:19 G 18502522.59 18502522.68 18502522.80 0.0137 0.0117

Uranus 45946-04-30 12:29 G 18502610.87 18502611.02 18502611.18 0.0137 0.0087

Uranus 45946-07-27 20:24 G 18502699.18 18502699.35 18502699.53 0.0137 0.0057

Uranus 45946-10-24 04:19 G 18502787.49 18502787.68 18502787.88 0.0137 0.0028

Uranus 45947-01-20 12:29 G 18502875.82 18502876.02 18502876.21 0.0137 0.0003

Earth 45947-04-13 01:26 G 18502958.39 18502958.56 18502958.72 0.2676 0.0448

Moon 45947-04-13 02:24 G 18502958.44 18502958.60 18502958.76 0.2682 0.0568 *

Jupiter 45947-04-14 11:02 G 18502959.82 18502959.96 18502960.10 0.0508 0.0336

Uranus 45947-04-18 20:10 G 18502964.15 18502964.34 18502964.54 0.0137 0.0031

Uranus 45947-07-16 03:50 G 18503052.50 18503052.66 18503052.85 0.0137 0.0060

Uranus 45947-10-12 11:46 G 18503140.85 18503140.99 18503141.15 0.0137 0.0089

Uranus 45948-01-08 19:26 G 18503229.23 18503229.31 18503229.42 0.0137 0.0118

Moon 45950-10-11 05:46 G 18504235.64 18504235.74 18504235.85 0.2660 0.0463

Earth 45950-10-11 06:14 G 18504235.66 18504235.76 18504235.87 0.2655 0.0555 *

Jupiter 45952-12-11 07:41 G 18505027.72 18505027.82 18505027.92 0.0518 0.0314

Jupiter 45953-03-10 11:31 G 18505116.87 18505116.98 18505117.08 0.0516 0.0278

Pluto 45953-08-28 06:29 G 18505287.71 18505287.77 18505287.85 0.0068 0.0058

Pluto 45953-11-24 06:58 G 18505375.71 18505375.79 18505375.89 0.0068 0.0048

Pluto 45954-02-20 07:41 G 18505463.71 18505463.82 18505463.93 0.0068 0.0038

Pluto 45954-05-19 08:10 G 18505551.72 18505551.84 18505551.97 0.0068 0.0027

Pluto 45954-08-15 08:53 G 18505639.74 18505639.87 18505640.00 0.0068 0.0017

Pluto 45954-11-11 09:22 G 18505727.76 18505727.89 18505728.03 0.0068 0.0006

Pluto 45955-02-07 09:50 G 18505815.78 18505815.91 18505816.05 0.0069 0.0005

Pluto 45955-05-06 10:19 G 18505903.81 18505903.93 18505904.07 0.0069 0.0016

Pluto 45955-08-02 11:02 G 18505991.84 18505991.96 18505992.08 0.0069 0.0026

Pluto 45955-10-29 11:17 G 18506079.87 18506079.97 18506080.10 0.0069 0.0037

Pluto 45956-01-25 11:46 G 18506167.91 18506167.99 18506168.10 0.0069 0.0048

Pluto 45956-04-22 12:29 G 18506255.96 18506256.02 18506256.10 0.0069 0.0059

Saturn 45958-06-27 07:41 G 18507051.70 18507051.82 18507051.93 0.0298 0.0133

Saturn 45958-09-23 19:26 G 18507140.19 18507140.31 18507140.44 0.0297 0.0040

Saturn 45958-12-21 07:12 G 18507228.72 18507228.80 18507228.89 0.0296 0.0209

Jupiter 45959-05-01 22:19 G 18507360.29 18507360.43 18507360.57 0.0510 0.0341

Mars 45960-11-22 19:55 G 18507931.25 18507931.33 18507931.41 0.1921 0.1405

Mars 45963-08-30 18:14 G 18508942.15 18508942.26 18508942.37 0.1612 0.1228

Moon 45963-10-13 23:02 G 18508986.38 18508986.46 18508986.54 0.2661 0.1740

Earth 45963-10-13 23:17 G 18508986.39 18508986.47 18508986.55 0.2655 0.1758 *

Jupiter 45964-09-29 12:14 G 18509337.96 18509338.01 18509338.06 0.0518 0.0466

Jupiter 45964-12-27 16:05 G 18509427.05 18509427.17 18509427.29 0.0516 0.0128

Venus 45969-12-10 21:22 G 18511236.30 18511236.39 18511236.49 0.3681 0.2947

Mars 45970-04-15 04:34 G 18511361.58 18511361.69 18511361.80 0.1917 0.0003

Moon 45970-10-07 00:29 G 18511536.44 18511536.52 18511536.60 0.2653 0.1655

Earth 45970-10-07 00:58 G 18511536.46 18511536.54 18511536.62 0.2657 0.1643 *

Jupiter 45971-02-17 18:14 G 18511670.08 18511670.26 18511670.45 0.0509 0.0120

Mars 45973-01-19 19:12 G 18512372.13 18512372.30 18512372.47 0.1615 0.0230

Saturn 45974-04-06 07:55 G 18512813.67 18512813.83 18512814.00 0.0265 0.0147

Saturn 45974-07-04 06:14 G 18512902.57 18512902.76 18512902.95 0.0266 0.0040

Saturn 45974-10-01 04:19 G 18512991.59 18512991.68 18512991.78 0.0266 0.0228

Jupiter 45976-10-15 20:38 G 18513737.23 18513737.36 18513737.48 0.0517 0.0032

Mars 45979-09-05 12:58 G 18514791.97 18514792.04 18514792.12 0.1913 0.1426

Earth 45980-04-09 22:19 G 18515009.33 18515009.43 18515009.53 0.2675 0.2117

Moon 45980-04-09 22:34 G 18515009.34 18515009.44 18515009.55 0.2682 0.1984 *

Jupiter 45982-12-06 13:41 G 18515979.89 18515980.07 18515980.26 0.0508 0.0107

Moon 45983-10-09 17:17 G 18516287.12 18516287.22 18516287.33 0.2656 0.0577

Earth 45983-10-09 18:00 G 18516287.15 18516287.25 18516287.36 0.2656 0.0425 *

Venus 45983-10-13 16:48 G 18516291.12 18516291.20 18516291.28 0.3690 0.2108

Saturn 45987-11-14 10:34 G 18517783.84 18517783.94 18517784.04 0.0298 0.0173

Saturn 45988-02-10 22:34 G 18517872.31 18517872.44 18517872.56 0.0297 0.0010

Saturn 45988-05-09 10:19 G 18517960.82 18517960.93 18517961.03 0.0296 0.0169

Jupiter 45988-08-04 01:26 G 18518047.44 18518047.56 18518047.68 0.0518 0.0170

Jupiter 45988-11-01 05:02 G 18518136.65 18518136.71 18518136.79 0.0516 0.0422

Venus 45989-04-28 07:55 G 18518314.73 18518314.83 18518314.93 0.3689 0.0057

Uranus 45989-07-22 12:00 G 18518399.97 18518400.00 18518400.03 0.0141 0.0136

Uranus	45989-10-18 15:07 G	18518488.07	18518488.13	18518488.21	0.0141	0.0116
Uranus	45990-01-14 18:29 G	18518576.18	18518576.27	18518576.37	0.0141	0.0095
Uranus	45990-04-12 21:50 G	18518664.30	18518664.41	18518664.52	0.0141	0.0074
Uranus	45990-07-10 01:12 G	18518752.43	18518752.55	18518752.67	0.0141	0.0053
Uranus	45990-10-06 04:34 G	18518840.56	18518840.69	18518840.82	0.0141	0.0032
Uranus	45991-01-02 07:55 G	18518928.70	18518928.83	18518928.96	0.0141	0.0012
Uranus	45991-03-31 11:02 G	18519016.84	18519016.96	18519017.10	0.0141	0.0011
Uranus	45991-06-27 14:24 G	18519104.98	18519105.10	18519105.23	0.0141	0.0031
Uranus	45991-09-23 17:46 G	18519193.12	18519193.24	18519193.36	0.0141	0.0053
Uranus	45991-12-20 21:07 G	18519281.27	18519281.38	18519281.49	0.0142	0.0074
Uranus	45992-03-18 00:29 G	18519369.43	18519369.52	18519369.62	0.0142	0.0095
Uranus	45992-06-14 03:50 G	18519457.59	18519457.66	18519457.74	0.0142	0.0117
Uranus	45992-09-10 07:12 G	18519545.78	18519545.80	18519545.83	0.0142	0.0138
Earth	45993-04-13 08:24 G	18519760.70	18519760.85	18519761.00	0.2676	0.1006
Moon	45993-04-13 09:36 G	18519760.75	18519760.90	18519761.05	0.2681	0.1124 *
Jupiter	45994-09-24 08:10 G	18520289.71	18520289.84	18520289.98	0.0508	0.0346
Venus	45994-11-11 23:02 G	18520338.38	18520338.46	18520338.54	0.3689	0.2191
Moon	45996-10-11 10:34 G	18521037.84	18521037.94	18521038.04	0.2661	0.0770
Earth	45996-10-11 11:02 G	18521037.86	18521037.96	18521038.06	0.2655	0.0789 *
Jupiter	46000-05-23 06:14 G	18522357.66	18522357.76	18522357.86	0.0519	0.0316
Mars	46000-05-23 19:55 G	18522358.27	18522358.33	18522358.39	0.1921	0.1579
Jupiter	46000-08-20 10:05 G	18522446.82	18522446.92	18522447.03	0.0516	0.0278

47TH MILLENNIUM CE

This is a list of transits of Mercury in the 47th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	**46003-02-28 18:58**	**G**	**18523369.21**	**18523369.29**	**18523369.36**	**0.1612**	**0.1450**	
Saturn	**46003-08-24 08:10**	**G**	**18523545.72**	**18523545.84**	**18523545.99**	**0.0265**	**0.0188**	
Moon	**46003-10-05 12:29**	**G**	**18523588.00**	**18523588.02**	**18523588.04**	**0.2652**	**0.2599**	
Earth	**46003-10-05 12:43**	**G**	**18523588.01**	**18523588.03**	**18523588.04**	**0.2658**	**0.2628**	*****
Saturn	**46003-11-21 06:29**	**G**	**18523634.58**	**18523634.77**	**18523634.97**	**0.0265**	**0.0007**	
Saturn	**46004-02-18 04:48**	**G**	**18523723.57**	**18523723.70**	**18523723.84**	**0.0266**	**0.0187**	
Neptune	**46005-05-01 07:55**	**G**	**18524161.76**	**18524161.83**	**18524161.93**	**0.0088**	**0.0081**	
Neptune	**46005-07-28 12:00**	**G**	**18524249.88**	**18524250.00**	**18524250.13**	**0.0088**	**0.0069**	
Neptune	**46005-10-24 15:36**	**G**	**18524338.01**	**18524338.15**	**18524338.31**	**0.0088**	**0.0058**	
Neptune	**46006-01-20 19:41**	**G**	**18524426.15**	**18524426.32**	**18524426.49**	**0.0089**	**0.0046**	
Neptune	**46006-04-18 23:02**	**G**	**18524514.29**	**18524514.46**	**18524514.66**	**0.0089**	**0.0035**	
Neptune	**46006-07-16 03:07**	**G**	**18524602.44**	**18524602.63**	**18524602.82**	**0.0089**	**0.0023**	
Jupiter	**46006-10-11 18:43**	**G**	**18524690.14**	**18524690.28**	**18524690.43**	**0.0509**	**0.0322**	
Neptune	**46006-10-12 06:58**	**G**	**18524690.59**	**18524690.79**	**18524690.99**	**0.0089**	**0.0011**	
Neptune	**46007-01-08 10:48**	**G**	**18524778.75**	**18524778.95**	**18524779.15**	**0.0089**	**0.0001**	
Neptune	**46007-04-06 14:24**	**G**	**18524866.91**	**18524867.10**	**18524867.30**	**0.0089**	**0.0012**	
Neptune	**46007-07-03 18:14**	**G**	**18524955.07**	**18524955.26**	**18524955.45**	**0.0089**	**0.0023**	
Neptune	**46007-09-29 21:50**	**G**	**18525043.24**	**18525043.41**	**18525043.60**	**0.0089**	**0.0035**	
Neptune	**46007-12-27 01:41**	**G**	**18525131.41**	**18525131.57**	**18525131.74**	**0.0089**	**0.0046**	
Neptune	**46008-03-24 05:17**	**G**	**18525219.58**	**18525219.72**	**18525219.88**	**0.0089**	**0.0058**	
Neptune	**46008-06-20 09:07**	**G**	**18525307.77**	**18525307.88**	**18525308.01**	**0.0089**	**0.0069**	
Neptune	**46008-09-16 12:29**	**G**	**18525395.96**	**18525396.02**	**18525396.13**	**0.0089**	**0.0081**	
Mars	**46009-10-14 04:19**	**G**	**18525788.57**	**18525788.68**	**18525788.80**	**0.1917**	**0.0164**	
Moon	**46009-10-14 04:05**	**G**	**18525788.60**	**18525788.67**	**18525788.74**	**0.2661**	**0.1993**	*****
Earth	**46009-10-14 04:05**	**G**	**18525788.60**	**18525788.67**	**18525788.74**	**0.2655**	**0.1996**	*****
Jupiter	**46012-03-11 10:34**	**G**	**18526667.89**	**18526667.94**	**18526667.99**	**0.0519**	**0.0470**	
Jupiter	**46012-06-08 14:24**	**G**	**18526756.98**	**18526757.10**	**18526757.23**	**0.0517**	**0.0127**	

Mars 46012-07-20 19:55 G 18526799.16 18526799.33 18526799.50 0.1615 0.0015

Moon 46016-10-07 05:17 G 18528338.63 18528338.72 18528338.80 0.2653 0.1533

Earth 46016-10-07 05:46 G 18528338.65 18528338.74 18528338.83 0.2657 0.1402 *

Saturn 46017-04-02 13:12 G 18528515.96 18528516.05 18528516.14 0.0298 0.0217

Saturn 46017-06-30 01:12 G 18528604.42 18528604.55 18528604.67 0.0297 0.0046

Saturn 46017-09-26 12:58 G 18528692.92 18528693.04 18528693.15 0.0296 0.0126

Saturn 46017-12-24 00:29 G 18528781.52 18528781.52 18528781.54 0.0295 0.0295

Jupiter 46018-07-30 15:07 G 18528999.94 18529000.13 18529000.31 0.0509 0.0105

Mars 46019-03-06 12:58 G 18529218.96 18529219.04 18529219.13 0.1913 0.1265

Mars 46021-12-10 20:53 G 18530229.30 18530229.37 18530229.44 0.1618 0.1470

Jupiter 46024-03-27 18:58 G 18531067.17 18531067.29 18531067.42 0.0517 0.0029

Earth 46026-04-11 05:17 G 18531811.59 18531811.72 18531811.85 0.2675 0.1559

Moon 46026-04-11 05:46 G 18531811.61 18531811.74 18531811.87 0.2682 0.1617 *

Venus 46026-07-18 00:00 G 18531909.34 18531909.50 18531909.67 0.3681 0.0301

Moon 46029-10-09 22:05 G 18533089.31 18533089.42 18533089.53 0.2658 0.0214

Earth 46029-10-09 22:48 G 18533089.34 18533089.45 18533089.55 0.2656 0.0193 *

Uranus 46029-11-25 04:48 G 18533135.67 18533135.70 18533135.74 0.0137 0.0135

Uranus 46030-02-21 12:29 G 18533223.91 18533224.02 18533224.16 0.0137 0.0106

Jupiter 46030-05-18 11:02 G 18533309.77 18533309.96 18533310.14 0.0508 0.0116

Uranus 46030-05-20 20:53 G 18533312.21 18533312.37 18533312.53 0.0137 0.0076

Uranus 46030-08-17 04:34 G 18533400.52 18533400.69 18533400.89 0.0137 0.0047

Uranus 46030-11-13 12:43 G 18533488.83 18533489.03 18533489.23 0.0137 0.0017

Uranus 46031-02-09 20:38 G 18533577.16 18533577.36 18533577.56 0.0137 0.0013

Uranus 46031-05-09 04:19 G 18533665.50 18533665.68 18533665.88 0.0137 0.0042

Uranus 46031-08-05 12:14 G 18533753.85 18533754.01 18533754.18 0.0137 0.0071

Uranus 46031-11-01 19:55 G 18533842.21 18533842.33 18533842.48 0.0137 0.0100

Uranus 46032-01-29 03:36 G 18533930.60 18533930.65 18533930.73 0.0137 0.0129

Saturn 46033-01-10 08:10 G 18534277.76 18534277.84 18534277.94 0.0265 0.0232

Saturn 46033-04-09 06:29 G 18534366.58 18534366.77 18534366.96 0.0265 0.0046

Saturn 46033-07-07 04:34 G 18534455.53 18534455.69 18534455.86 0.0266 0.0143

Venus 46034-11-03 22:48 G 18534940.42 18534940.45 18534940.49 0.3690 0.3467

Jupiter 46036-01-14 23:17 G 18535377.36 18535377.47 18535377.59 0.0518 0.0183

Jupiter 46036-04-13 03:07 G 18535466.56 18535466.63 18535466.71 0.0516 0.0409

Earth 46039-04-14 15:22 G 18536563.01 18536563.14 18536563.27 0.2676 0.1567

Moon 46039-04-14 16:48 G 18536563.08 18536563.20 18536563.32 0.2680 0.1819 *

Mars 46039-11-22 19:55 G 18536785.29 18536785.33 18536785.38 0.1921 0.1753

Pluto 46040-03-23 18:29 G 18536907.16 18536907.27 18536907.40 0.0076 0.0059

Venus 46040-05-19 14:10 G 18536963.99 18536964.09 18536964.18 0.3690 0.1335

Pluto 46040-06-19 20:53 G 18536995.22 18536995.37 18536995.55 0.0075 0.0039

Pluto 46040-09-15 23:31 G 18537083.30 18537083.48 18537083.67 0.0075 0.0018

Pluto 46040-12-13 02:10 G 18537171.40 18537171.59 18537171.78 0.0075 0.0002

Pluto 46041-03-11 04:34 G 18537259.51 18537259.69 18537259.88 0.0075 0.0022

Pluto 46041-06-07 06:58 G 18537347.63 18537347.79 18537347.95 0.0075 0.0042

Pluto 46041-09-03 08:53 G 18537435.79 18537435.87 18537436.00 0.0075 0.0063

Jupiter 46042-03-06 06:29 G 18537619.63 18537619.77 18537619.91 0.0508 0.0341

Moon 46042-10-12 15:22 G 18537840.04 18537840.14 18537840.24 0.2661 0.0924

Earth 46042-10-12 15:50 G 18537840.06 18537840.16 18537840.25 0.2655 0.1032 *

Venus 46045-12-03 05:17 G 18538987.62 18538987.72 18538987.81 0.3689 0.0822

Saturn 46046-08-20 16:19 G 18539248.12 18539248.18 18539248.24 0.0298 0.0254

Saturn 46046-11-17 04:05 G 18539336.55 18539336.67 18539336.80 0.0297 0.0082

Saturn 46047-02-13 16:05 G 18539425.05 18539425.17 18539425.29 0.0296 0.0089

Saturn 46047-05-13 03:36 G 18539513.60 18539513.65 18539513.72 0.0295 0.0258

Jupiter 46047-11-03 04:05 G 18539687.58 18539687.67 18539687.77 0.0519 0.0329

Jupiter 46048-01-31 07:55 G 18539776.73 18539776.83 18539776.94 0.0516 0.0266

Mars 46049-04-14 04:19 G 18540215.57 18540215.68 18540215.79 0.1917 0.0316

Moon 46049-10-05 17:02 G 18540390.17 18540390.21 18540390.26 0.2652 0.2419

Earth 46049-10-05 17:17 G 18540390.18 18540390.22 18540390.27 0.2658 0.2385 *

Venus 46051-06-18 20:24 G 18541011.29 18541011.35 18541011.41 0.3689 0.2986

Mars 46052-01-19 20:38 G 18541226.19 18541226.36 18541226.53 0.1615 0.0219

Jupiter 46054-03-23 15:36 G 18542020.01 18542020.15 18542020.31 0.0509 0.0307

Earth 46055-10-15 08:38 G 18542590.81 18542590.86 18542590.92 0.2654 0.2229

Moon 46055-10-15 08:53 G 18542590.82 18542590.87 18542590.92 0.2661 0.2296 *

Mars 46058-09-04 12:58 G 18543645.95 18543646.04 18543646.13 0.1913 0.1094

Jupiter 46059-08-22 08:53 G 18543997.82 18543997.87 18543997.92 0.0519 0.0477

Jupiter 46059-11-19 12:43 G 18544086.91 18544087.03 18544087.16 0.0517 0.0121

Mars 46061-06-10 21:36 G 18544656.29 18544656.40 18544656.50 0.1618 0.1252

Saturn 46062-08-27 07:12 G 18545098.62 18545098.80 18545098.98 0.0265 0.0084

Moon 46062-10-08 09:50 G 18545140.82 18545140.91 18545141.01 0.2653 0.1193

Earth 46062-10-08 10:34 G 18545140.84 18545140.94 18545141.03 0.2657 0.1166 *

Saturn 46062-11-24 05:17 G 18545187.55 18545187.72 18545187.90 0.0266 0.0104

Jupiter 46066-01-09 11:31 G 18546329.79 18546329.98 18546330.16 0.0508 0.0084

Jupiter 46071-09-07 17:17 G 18548397.09 18548397.22 18548397.34 0.0517 0.0035

Earth 46072-04-11 12:29 G 18548613.86 18548614.02 18548614.17 0.2675 0.0994

Moon 46072-04-11 12:58 G 18548613.89 18548614.04 18548614.19 0.2682 0.0809 *

Uranus 46073-08-11 19:55 G 18549101.28 18549101.33 18549101.39 0.0141 0.0127

Uranus 46073-11-07 23:17 G 18549189.39 18549189.47 18549189.56 0.0141 0.0107

Uranus 46074-02-04 02:38 G 18549277.51 18549277.61 18549277.71 0.0141 0.0086

Uranus 46074-05-03 06:00 G 18549365.63 18549365.75 18549365.86 0.0141 0.0065

Uranus 46074-07-30 09:07 G 18549453.76 18549453.88 18549454.01 0.0141 0.0045

Uranus 46074-10-26 12:29 G 18549541.89 18549542.02 18549542.15 0.0141 0.0023

Uranus 46075-01-22 15:50 G 18549630.03 18549630.16 18549630.29 0.0141 0.0003

Uranus 46075-04-20 19:12 G 18549718.17 18549718.30 18549718.43 0.0141 0.0019

Uranus 46075-07-17 22:19 G 18549806.31 18549806.43 18549806.56 0.0141 0.0040

Moon 46075-10-11 02:53 G 18549891.51 18549891.62 18549891.73 0.2659 0.0087

Earth 46075-10-11 03:22 G 18549891.54 18549891.64 18549891.75 0.2656 0.0110 *

Uranus 46075-10-14 01:41 G 18549894.46 18549894.57 18549894.69 0.0142 0.0061

Saturn 46076-01-07 19:12 G 18549980.28 18549980.30 18549980.32 0.0298 0.0294

Uranus 46076-01-10 05:02 G 18549982.61 18549982.71 18549982.82 0.0142 0.0082

Saturn 46076-04-05 07:12 G 18550068.68 18550068.80 18550068.92 0.0297 0.0121

Uranus 46076-04-07 08:24 G 18550070.77 18550070.85 18550070.94 0.0142 0.0104

Saturn 46076-07-02 18:58 G 18550157.17 18550157.29 18550157.42 0.0297 0.0051

Uranus 46076-07-04 11:46 G 18550158.93 18550158.99 18550159.05 0.0142 0.0125

Saturn 46076-09-29 06:43 G 18550245.70 18550245.78 18550245.87 0.0296 0.0220

Jupiter 46077-10-28 07:26 G 18550639.63 18550639.81 18550639.99 0.0508 0.0136

Mars 46079-05-23 19:41 G 18551212.31 18551212.32 18551212.34 0.1921 0.1894

Venus 46083-02-22 02:38 G 18552582.49 18552582.61 18552582.73 0.3681 0.2337

Jupiter 46083-06-26 21:50 G 18552707.29 18552707.41 18552707.52 0.0518 0.0186

Jupiter 46083-09-24 01:26 G 18552796.49 18552796.56 18552796.64 0.0516 0.0405

Earth 46085-04-14 22:19 G 18553365.34 18553365.43 18553365.53 0.2676 0.2135

Moon 46085-04-15 00:14 G 18553365.42 18553365.51 18553365.60 0.2679 0.2248 *

Neptune 46085-05-30 18:58 G 18553411.28 18553411.29 18553411.32 0.0089 0.0088

Neptune 46085-08-26 20:24 G 18553499.30 18553499.35 18553499.41 0.0089 0.0080

Neptune 46085-11-22 21:50 G 18553587.33 18553587.41 18553587.48 0.0089 0.0072

Neptune 46086-02-18 22:48 G 18553675.37 18553675.45 18553675.55 0.0089 0.0065

Neptune 46086-05-18 00:14 G 18553763.41 18553763.51 18553763.61 0.0089 0.0057

Neptune 46086-08-14 01:26 G 18553851.46 18553851.56 18553851.67 0.0089 0.0049

Neptune 46086-11-10 02:38 G 18553939.50 18553939.61 18553939.73 0.0089 0.0042

Neptune 46087-02-06 04:05 G 18554027.55 18554027.67 18554027.79 0.0089 0.0034

Neptune 46087-05-05 05:17 G 18554115.60 18554115.72 18554115.85 0.0089 0.0027

Neptune 46087-08-01 06:29 G 18554203.65 18554203.77 18554203.90 0.0089 0.0019

Neptune 46087-10-28 07:41 G 18554291.70 18554291.82 18554291.96 0.0089 0.0012

Neptune 46088-01-24 09:07 G 18554379.75 18554379.88 18554380.01 0.0089 0.0004

Neptune 46088-04-21 10:19 G 18554467.80 18554467.93 18554468.06 0.0089 0.0004

Neptune 46088-07-18 11:31 G 18554555.85 18554555.98 18554556.11 0.0089 0.0012

Moon 46088-10-12 20:10 G 18554642.25 18554642.34 18554642.43 0.2661 0.1276

Earth 46088-10-12 20:24 G 18554642.26 18554642.35 18554642.45 0.2655 0.1262 *

Mars 46088-10-13 04:34 G 18554642.58 18554642.69 18554642.79 0.1917 0.0500

Neptune 46088-10-14 12:43 G 18554643.91 18554644.03 18554644.16 0.0089 0.0019

Neptune 46089-01-10 13:55 G 18554731.96 18554732.08 18554732.21 0.0089 0.0027

Neptune 46089-04-08 15:07 G 18554820.02 18554820.13 18554820.26 0.0089 0.0035

Neptune 46089-07-05 16:34 G 18554908.08 18554908.19 18554908.31 0.0089 0.0042

Jupiter 46089-08-16 03:22 G 18554949.51 18554949.64 18554949.78 0.0508 0.0356

Neptune 46089-10-01 17:46 G 18554996.14 18554996.24 18554996.35 0.0089 0.0050

Neptune 46089-12-28 19:12 G 18555084.20 18555084.30 18555084.40 0.0089 0.0057

Neptune 46090-03-26 20:10 G 18555172.26 18555172.34 18555172.44 0.0089 0.0065

Neptune 46090-06-22 21:22 G 18555260.33 18555260.39 18555260.48 0.0089 0.0073

Neptune 46090-09-18 22:48 G 18555348.40 18555348.45 18555348.51 0.0089 0.0080

Neptune 46090-12-15 23:46 G 18555436.49 18555436.49 18555436.53 0.0089 0.0088

Venus 46091-06-10 20:10 G 18555613.28 18555613.34 18555613.41 0.3690 0.2687

Mars 46091-07-20 21:22 G 18555653.23 18555653.39 18555653.56 0.1615 0.0456

Saturn 46092-01-14 06:58 G 18555830.62 18555830.79 18555830.96 0.0265 0.0128

Saturn 46092-04-12 05:17 G 18555919.53 18555919.72 18555919.91 0.0266 0.0060

Saturn 46092-07-10 03:36 G 18556008.58 18556008.65 18556008.72 0.0267 0.0249

Jupiter 46095-04-15 01:55 G 18557017.49 18557017.58 18557017.68 0.0518 0.0344

Jupiter 46095-07-13 06:00 G 18557106.64 18557106.75 18557106.86 0.0516 0.0251

Moon 46095-10-06 21:50 G 18557192.35 18557192.41 18557192.46 0.2652 0.2201

Earth 46095-10-06 22:05 G 18557192.36 18557192.42 18557192.48 0.2658 0.2146 *

Venus 46096-12-24 11:17 G 18557636.87 18557636.97 18557637.07 0.3689 0.0564

Mars 46098-03-05 12:58 G 18558072.94 18558073.04 18558073.14 0.1913 0.0929

Mars 46100-12-10 22:19 G 18559083.30 18559083.43 18559083.56 0.1618 0.1020

Jupiter 46101-09-03 13:41 G 18559349.92 18559350.07 18559350.22 0.0509 0.0308

Earth 46101-10-16 13:26 G 18559393.02 18559393.06 18559393.10 0.2654 0.2466

Moon 46101-10-16 13:41 G 18559393.03 18559393.07 18559393.11 0.2661 0.2459 *

Venus 46102-07-11 02:38 G 18559660.52 18559660.61 18559660.70 0.3689 0.1613

Saturn 46105-08-24 10:34 G 18560800.83 18560800.94 18560801.05 0.0297 0.0155

Saturn 46105-11-20 22:19 G 18560889.30 18560889.43 18560889.56 0.0296 0.0018

Saturn 46106-02-17 10:05 G 18560977.83 18560977.92 18560978.02 0.0296 0.0186

Jupiter 46107-02-02 06:43 G 18561327.74 18561327.78 18561327.82 0.0519 0.0493

Jupiter 46107-05-02 10:34 G 18561416.82 18561416.94 18561417.07 0.0517 0.0107

Moon 46108-10-09 14:38 G 18561943.01 18561943.11 18561943.21 0.2655 0.1027

Earth 46108-10-09 15:07 G 18561943.03 18561943.13 18561943.23 0.2657 0.0924 *

Jupiter 46113-06-22 08:24 G 18563659.66 18563659.85 18563660.03 0.0508 0.0068

Uranus 46113-12-16 12:43 G 18563836.96 18563837.03 18563837.13 0.0137 0.0125

Uranus 46114-03-14 20:53 G 18563925.24 18563925.37 18563925.52 0.0137 0.0095

Uranus 46114-06-11 04:48 G 18564013.54 18564013.70 18564013.88 0.0137 0.0065

Uranus 46114-09-07 12:58 G 18564101.85 18564102.04 18564102.23 0.0137 0.0035

Uranus 46114-12-04 20:53 G 18564190.17 18564190.37 18564190.57 0.0137 0.0006

Uranus 46115-03-03 04:48 G 18564278.51 18564278.70 18564278.89 0.0137 0.0023

Uranus 46115-05-30 12:43 G 18564366.85 18564367.03 18564367.21 0.0137 0.0052

Uranus 46115-08-26 20:38 G 18564455.20 18564455.36 18564455.51 0.0137 0.0081

Uranus 46115-11-23 04:19 G 18564543.57 18564543.68 18564543.80 0.0137 0.0110

Earth 46118-04-13 19:26 G 18565416.15 18565416.31 18565416.47 0.2675 0.0424

Moon 46118-04-13 20:24 G 18565416.19 18565416.35 18565416.51 0.2681 0.0426 *

Jupiter 46119-02-18 15:22 G 18565727.02 18565727.14 18565727.27 0.0518 0.0044

Saturn 46121-06-03 07:41 G 18566562.68 18566562.82 18566562.98 0.0265 0.0165

Saturn 46121-08-31 06:00 G 18566651.56 18566651.75 18566651.94 0.0266 0.0022

Moon 46121-10-12 07:41 G 18566693.71 18566693.82 18566693.92 0.2659 0.0283

Earth 46121-10-12 08:10 G 18566693.73 18566693.84 18566693.95 0.2656 0.0293 *

Saturn 46121-11-28 04:05 G 18566740.56 18566740.67 18566740.80 0.0267 0.0212

Jupiter 46125-04-10 03:50 G 18567969.49 18567969.66 18567969.84 0.0508 0.0157

Mars 46128-04-14 04:19 G 18569069.57 18569069.68 18569069.78 0.1917 0.0642

Jupiter 46130-12-07 19:55 G 18570037.21 18570037.33 18570037.44 0.0518 0.0197

Mars 46131-01-19 22:05 G 18570080.27 18570080.42 18570080.58 0.1615 0.0676

Jupiter 46131-03-06 23:31 G 18570126.41 18570126.48 18570126.56 0.0516 0.0395

Venus 46134-03-15 18:00 G 18571231.17 18571231.25 18571231.33 0.3681 0.3164

Moon 46134-10-15 00:58 G 18571444.46 18571444.54 18571444.63 0.2661 0.1437

Earth 46134-10-15 01:12 G 18571444.46 18571444.55 18571444.64 0.2655 0.1500 *

Saturn 46135-01-11 13:41 G 18571532.97 18571533.07 18571533.17 0.0298 0.0191

Saturn 46135-04-10 01:41 G 18571621.44 18571621.57 18571621.69 0.0297 0.0020

Saturn 46135-07-07 13:26 G 18571709.95 18571710.06 18571710.17 0.0296 0.0151

Jupiter 46137-01-26 23:46 G 18572279.37 18572279.49 18572279.62 0.0508 0.0377

Mars 46137-09-04 12:58 G 18572499.93 18572500.04 18572500.14 0.1913 0.0775

Mars 46140-06-10 23:02 G 18573510.31 18573510.46 18573510.61 0.1618 0.0787

Moon 46141-10-08 02:24 G 18573994.53 18573994.60 18573994.67 0.2652 0.1929

Earth 46141-10-08 02:53 G 18573994.54 18573994.62 18573994.69 0.2658 0.1905 *

Jupiter 46142-09-26 00:29 G 18574347.43 18574347.52 18574347.61 0.0518 0.0348

Jupiter 46142-12-24 04:19 G 18574436.57 18574436.68 18574436.79 0.0516 0.0246

Venus 46148-01-16 17:31 G 18576286.15 18576286.23 18576286.32 0.3690 0.1905

Jupiter 46149-02-13 10:34 G 18576679.79 18576679.94 18576680.10 0.0509 0.0293

Saturn 46150-10-21 07:41 G 18577294.70 18577294.82 18577294.94 0.0265 0.0209

Saturn 46151-01-18 05:46 G 18577383.55 18577383.74 18577383.94 0.0266 0.0023

Saturn 46151-04-17 04:05 G 18577472.52 18577472.67 18577472.82 0.0266 0.0167

Venus 46153-08-01 08:38 G 18578309.76 18578309.86 18578309.96 0.3689 0.0230

Jupiter 46154-07-15 04:34 G 18578657.67 18578657.69 18578657.72 0.0519 0.0506

Moon 46154-10-10 19:12 G 18578745.20 18578745.30 18578745.40 0.2657 0.0777

Earth 46154-10-10 19:55 G 18578745.22 18578745.33 18578745.43 0.2657 0.0687 *

Jupiter 46154-10-12 08:38 G 18578746.73 18578746.86 18578746.98 0.0517 0.0091

Uranus 46157-06-06 00:29 G 18579714.52 18579714.52 18579714.53 0.0141 0.0140

Uranus 46157-09-02 03:36 G 18579802.59 18579802.65 18579802.73 0.0141 0.0120

Uranus 46157-11-29 07:12 G 18579890.70 18579890.80 18579890.89 0.0141 0.0099

Uranus 46158-02-25 10:19 G 18579978.82 18579978.93 18579979.04 0.0141 0.0078

Uranus 46158-05-24 13:26 G 18580066.95 18580067.06 18580067.19 0.0141 0.0058

Uranus 46158-08-20 16:48 G 18580155.08 18580155.20 18580155.33 0.0141 0.0037

Uranus 46158-11-16 20:10 G 18580243.22 18580243.34 18580243.47 0.0141 0.0017

Uranus 46159-02-12 23:31 G 18580331.35 18580331.48 18580331.61 0.0141 0.0006

Venus 46159-02-14 23:46 G 18580333.42 18580333.49 18580333.57 0.3689 0.2403

Uranus 46159-05-12 02:53 G 18580419.49 18580419.62 18580419.75 0.0141 0.0026

Uranus 46159-08-08 06:14 G 18580507.64 18580507.76 18580507.88 0.0141 0.0048

Uranus 46159-11-04 09:36 G 18580595.78 18580595.90 18580596.01 0.0142 0.0069

Uranus 46160-01-31 12:43 G 18580683.94 18580684.03 18580684.14 0.0142 0.0091

Uranus 46160-04-28 16:05 G 18580772.10 18580772.17 18580772.26 0.0142 0.0112

Uranus 46160-07-25 19:26 G 18580860.27 18580860.31 18580860.36 0.0142 0.0133

Jupiter 46160-12-02 06:14 G 18580989.57 18580989.76 18580989.94 0.0509 0.0067

Earth 46164-04-14 02:38 G 18582218.44 18582218.61 18582218.77 0.2675 0.0160

Moon 46164-04-14 03:50 G 18582218.50 18582218.66 18582218.82 0.2680 0.0376 *

Saturn 46164-05-30 16:48 G 18582265.12 18582265.20 18582265.28 0.0298 0.0228

Saturn 46164-08-27 04:48 G 18582353.57 18582353.70 18582353.83 0.0297 0.0055

Saturn 46164-11-23 16:34 G 18582442.07 18582442.19 18582442.31 0.0296 0.0115

Saturn 46165-02-20 04:19 G 18582530.65 18582530.68 18582530.71 0.0295 0.0283

Jupiter 46166-07-31 13:12 G 18583056.93 18583057.05 18583057.18 0.0518 0.0059

Moon 46167-10-13 12:14 G 18583495.91 18583496.01 18583496.12 0.2659 0.0428

Earth 46167-10-13 12:58 G 18583495.93 18583496.04 18583496.14 0.2656 0.0531 *

Mars 46167-10-14 04:19 G 18583496.58 18583496.68 18583496.78 0.1917 0.0811

Neptune 46170-01-27 05:17 G 18584332.64 18584332.72 18584332.81 0.0088 0.0079

Neptune 46170-04-25 08:53 G 18584420.76 18584420.87 18584421.01 0.0088 0.0068

Mars 46170-07-20 22:48 G 18584507.31 18584507.45 18584507.59 0.1615 0.0904

Neptune 46170-07-22 12:29 G 18584508.89 18584509.02 18584509.19 0.0089 0.0057

Neptune 46170-10-18 16:34 G 18584597.03 18584597.19 18584597.37 0.0089 0.0045

Neptune 46171-01-14 20:10 G 18584685.17 18584685.34 18584685.54 0.0089 0.0034

Neptune 46171-04-13 00:14 G 18584773.32 18584773.51 18584773.70 0.0089 0.0022

Neptune 46171-07-10 03:50 G 18584861.47 18584861.66 18584861.86 0.0089 0.0011

Neptune 46171-10-06 07:41 G 18584949.63 18584949.82 18584950.02 0.0089 0.0002

Neptune 46172-01-02 11:31 G 18585037.79 18585037.98 18585038.18 0.0089 0.0013

Neptune 46172-03-30 15:07 G 18585125.95 18585126.13 18585126.33 0.0089 0.0025

Neptune 46172-06-26 18:58 G 18585214.11 18585214.29 18585214.48 0.0089 0.0036

Jupiter 46172-09-20 00:58 G 18585299.36 18585299.54 18585299.72 0.0508 0.0169

Neptune 46172-09-22 22:34 G 18585302.29 18585302.44 18585302.62 0.0089 0.0048

Neptune 46172-12-20 02:24 G 18585390.46 18585390.60 18585390.76 0.0089 0.0059

Neptune 46173-03-18 06:00 G 18585478.65 18585478.75 18585478.89 0.0089 0.0071

Neptune 46173-06-14 09:50 G 18585566.85 18585566.91 18585567.00 0.0089 0.0082

Mars 46177-03-05 12:58 G 18586926.93 18586927.04 18586927.14 0.1913 0.0599

Jupiter 46178-05-19 18:00 G 18587367.13 18587367.25 18587367.36 0.0518 0.0207

Jupiter 46178-08-16 21:50 G 18587456.33 18587456.41 18587456.49 0.0516 0.0387

Mars 46179-12-10 23:46 G 18587937.33 18587937.49 18587937.65 0.1618 0.0566

Saturn 46180-03-09 08:10 G 18588026.78 18588026.84 18588026.91 0.0265 0.0248

Saturn 46180-06-06 06:29 G 18588115.58 18588115.77 18588115.96 0.0266 0.0062

Saturn 46180-09-03 04:34 G 18588204.52 18588204.69 18588204.86 0.0266 0.0127

Moon 46180-10-15 06:00 G 18588246.67 18588246.75 18588246.82 0.2662 0.1791

Earth 46180-10-15 06:00 G 18588246.67 18588246.75 18588246.83 0.2655 0.1737 *

Jupiter 46184-07-08 20:38 G 18589609.24 18589609.36 18589609.48 0.0507 0.0392

Jupiter 46184-10-07 11:31 G 18589699.94 18589699.98 18589700.01 0.0509 0.0497

Moon 46187-10-09 07:12 G 18590796.72 18590796.80 18590796.88 0.2652 0.1759

Earth 46187-10-09 07:26 G 18590796.73 18590796.81 18590796.90 0.2658 0.1670 *

Jupiter 46190-03-07 22:19 G 18591677.35 18591677.43 18591677.52 0.0519 0.0361

Jupiter 46190-06-05 02:10 G 18591766.48 18591766.59 18591766.71 0.0516 0.0236

Venus 46190-10-20 20:38 G 18591904.20 18591904.36 18591904.52 0.3681 0.0471

Saturn 46193-10-17 20:10 G 18592997.28 18592997.34 18592997.40 0.0298 0.0263

Saturn 46194-01-14 08:10 G 18593085.71 18593085.84 18593085.96 0.0297 0.0090

Saturn 46194-04-12 19:55 G 18593174.21 18593174.33 18593174.45 0.0296 0.0081

Saturn 46194-07-10 07:26 G 18593262.75 18593262.81 18593262.89 0.0295 0.0251

Jupiter 46196-07-26 06:58 G 18594009.64 18594009.79 18594009.96 0.0509 0.0274

Earth 46197-04-11 23:31 G 18594269.41 18594269.48 18594269.55 0.2674 0.2408

Moon 46197-04-11 23:46 G 18594269.42 18594269.49 18594269.56 0.2681 0.2393 *

Uranus 46198-01-05 21:36 G 18594538.30 18594538.40 18594538.53 0.0137 0.0112

Uranus 46198-04-04 05:31 G 18594626.59 18594626.73 18594626.90 0.0137 0.0082

Uranus 46198-07-01 13:41 G 18594714.89 18594715.07 18594715.26 0.0137 0.0052

Uranus 46198-09-27 21:36 G 18594803.21 18594803.40 18594803.60 0.0137 0.0023

Uranus 46198-12-25 05:31 G 18594891.54 18594891.73 18594891.93 0.0137 0.0007

Venus 46199-02-06 23:46 G 18594935.44 18594935.49 18594935.53 0.3690 0.3269

Uranus 46199-03-23 13:26 G 18594979.87 18594980.06 18594980.25 0.0137 0.0036

Uranus 46199-06-19 21:07 G 18595068.22 18595068.38 18595068.56 0.0137 0.0065

Uranus 46199-09-16 04:48 G 18595156.57 18595156.70 18595156.86 0.0137 0.0094

Uranus 46199-12-13 12:58 G 18595244.96 18595245.04 18595245.13 0.0137 0.0122

Moon 46200-10-12 00:00 G 18595547.39 18595547.50 18595547.60 0.2658 0.0529

Earth 46200-10-12 00:29 G 18595547.42 18595547.52 18595547.63 0.2657 0.0459 *

Pluto 46201-12-22 13:41 G 18595984.02 18595984.07 18595984.15 0.0068 0.0060

Jupiter 46201-12-26 03:07 G 18595987.61 18595987.63 18595987.65 0.0519 0.0510

Pluto 46202-03-20 14:24 G 18596072.02 18596072.10 18596072.20 0.0068 0.0049

Jupiter 46202-03-25 06:58 G 18596076.67 18596076.79 18596076.91 0.0517 0.0087

Pluto 46202-06-16 14:53 G 18596160.02 18596160.12 18596160.24 0.0068 0.0039

Pluto 46202-09-12 15:36 G 18596248.03 18596248.15 18596248.28 0.0068 0.0028

Pluto 46202-12-09 16:05 G 18596336.05 18596336.17 18596336.31 0.0068 0.0018

Pluto 46203-03-07 16:48 G 18596424.07 18596424.20 18596424.33 0.0068 0.0007

Pluto 46203-06-03 17:17 G 18596512.09 18596512.22 18596512.36 0.0069 0.0004

Pluto 46203-08-30 17:46 G 18596600.12 18596600.24 18596600.38 0.0069 0.0014

Pluto 46203-11-26 18:14 G 18596688.14 18596688.26 18596688.39 0.0069 0.0025

Pluto 46204-02-22 18:43 G 18596776.18 18596776.28 18596776.41 0.0069 0.0036

Pluto 46204-05-20 19:26 G 18596864.22 18596864.31 18596864.41 0.0069 0.0046

Pluto 46204-08-16 19:55 G 18596952.27 18596952.33 18596952.41 0.0069 0.0057

Venus 46204-08-23 14:53 G 18596959.02 18596959.12 18596959.21 0.3690 0.1145

Pluto 46204-11-12 20:24 G 18597040.34 18597040.35 18597040.38 0.0069 0.0068

Mars 46207-04-15 04:19 G 18597923.58 18597923.68 18597923.78 0.1917 0.0987

Jupiter 46208-05-15 03:07 G 18598319.44 18598319.63 18598319.82 0.0509 0.0053

Saturn 46209-10-25 06:00 G 18598847.57 18598847.75 18598847.93 0.0265 0.0108

Mars 46210-01-19 23:46 G 18598934.37 18598934.49 18598934.61 0.1615 0.1139

Saturn 46210-01-22 04:05 G 18598936.49 18598936.67 18598936.86 0.0266 0.0080

Venus 46210-03-09 06:00 G 18598982.65 18598982.75 18598982.85 0.3689 0.1018

Earth 46210-04-16 09:36 G 18599020.74 18599020.90 18599021.05 0.2676 0.0702

Moon 46210-04-16 11:02 G 18599020.81 18599020.96 18599021.12 0.2680 0.0828 *

Moon 46213-10-14 17:17 G 18600298.11 18600298.22 18600298.32 0.2660 0.0732

Earth 46213-10-14 17:31 G 18600298.13 18600298.23 18600298.34 0.2656 0.0770 *

Jupiter 46214-01-11 11:17 G 18600386.85 18600386.97 18600387.10 0.0517 0.0069

Venus 46215-09-22 21:07 G 18601006.33 18601006.38 18601006.43 0.3689 0.3182

Mars 46216-09-04 12:43 G 18601353.92 18601354.03 18601354.14 0.1913 0.0447

Mars 46219-06-12 00:29 G 18602364.35 18602364.52 18602364.69 0.1618 0.0339

Jupiter 46220-03-02 22:48 G 18602629.28 18602629.45 18602629.63 0.0508 0.0171

Earth 46220-10-07 19:12 G 18602848.30 18602848.30 18602848.31 0.2658 0.2647

Saturn 46223-06-04 11:02 G 18603817.84 18603817.96 18603818.07 0.0298 0.0130

Saturn 46223-08-31 22:48 G 18603906.32 18603906.45 18603906.58 0.0297 0.0042

Saturn 46223-11-28 10:34 G 18603994.85 18603994.94 18603995.03 0.0296 0.0211

Jupiter 46225-10-30 16:05 G 18604697.05 18604697.17 18604697.28 0.0518 0.0220

Mars 46226-01-25 21:22 G 18604784.37 18604784.39 18604784.42 0.1909 0.1839

Jupiter 46226-01-27 19:41 G 18604786.24 18604786.32 18604786.41 0.0516 0.0375

Moon 46226-10-17 10:34 G 18605048.87 18605048.94 18605049.02 0.2662 0.1939

Earth 46226-10-17 10:34 G 18605048.87 18605048.94 18605049.01 0.2655 0.1970 *

Jupiter 46231-12-20 18:00 G 18606939.14 18606939.25 18606939.37 0.0507 0.0401

Jupiter 46232-03-20 08:38 G 18607029.81 18607029.86 18607029.92 0.0509 0.0487

Moon 46233-10-10 11:46 G 18607598.90 18607598.99 18607599.08 0.2654 0.1445

Earth 46233-10-10 12:14 G 18607598.92 18607599.01 18607599.10 0.2657 0.1426 *

Jupiter 46237-08-18 20:38 G 18609007.27 18609007.36 18609007.45 0.0519 0.0370

Jupiter 46237-11-16 00:29 G 18609096.41 18609096.52 18609096.63 0.0517 0.0228

Saturn 46239-03-14 06:14 G 18609579.60 18609579.76 18609579.92 0.0265 0.0149

Saturn 46239-06-11 04:19 G 18609668.49 18609668.68 18609668.88 0.0266 0.0038

Saturn 46239-09-08 02:24 G 18609757.51 18609757.60 18609757.71 0.0267 0.0228

Uranus 46241-06-27 07:41 G 18610415.80 18610415.82 18610415.87 0.0141 0.0135

Uranus 46241-09-23 11:02 G 18610503.89 18610503.96 18610504.04 0.0141 0.0114

Uranus 46241-12-20 14:38 G 18610592.01 18610592.11 18610592.20 0.0141 0.0093

Uranus 46242-03-18 17:46 G 18610680.13 18610680.24 18610680.35 0.0141 0.0072

Uranus 46242-06-14 21:07 G 18610768.26 18610768.38 18610768.50 0.0141 0.0052

Uranus 46242-09-11 00:14 G 18610856.39 18610856.51 18610856.64 0.0141 0.0032

Uranus 46242-12-08 03:36 G 18610944.52 18610944.65 18610944.78 0.0141 0.0011

Uranus 46243-03-06 06:58 G 18611032.66 18611032.79 18611032.92 0.0141 0.0012

Earth 46243-04-14 06:29 G 18611071.66 18611071.77 18611071.89 0.2675 0.1844

Moon 46243-04-14 07:12 G 18611071.68 18611071.80 18611071.92 0.2681 0.1747 *

Uranus 46243-06-02 10:19 G 18611120.80 18611120.93 18611121.06 0.0141 0.0032

Uranus 46243-08-29 13:41 G 18611208.95 18611209.07 18611209.19 0.0141 0.0053

Uranus 46243-11-25 17:02 G 18611297.10 18611297.21 18611297.32 0.0142 0.0075

Jupiter 46244-01-07 04:19 G 18611339.52 18611339.68 18611339.84 0.0509 0.0262

Uranus 46244-02-21 20:24 G 18611385.25 18611385.35 18611385.44 0.0142 0.0096

Uranus 46244-05-19 23:31 G 18611473.42 18611473.48 18611473.56 0.0142 0.0118

Uranus 46244-08-16 02:53 G 18611561.60 18611561.62 18611561.65 0.0142 0.0139

Moon 46246-10-13 04:34 G 18612349.59 18612349.69 18612349.80 0.2657 0.0340

Earth 46246-10-13 05:17 G 18612349.61 18612349.72 18612349.83 0.2656 0.0211 *

Mars 46246-10-14 04:05 G 18612350.58 18612350.67 18612350.76 0.1917 0.1135

Venus 46247-05-28 23:31 G 18612577.35 18612577.48 18612577.61 0.3681 0.2220

Mars 46249-07-21 00:14 G 18613361.42 18613361.51 18613361.60 0.1615 0.1358

Jupiter 46249-09-04 05:02 G 18613406.59 18613406.71 18613406.84 0.0517 0.0078

Neptune 46250-02-26 18:14 G 18613582.24 18613582.26 18613582.29 0.0089 0.0087

Neptune 46250-05-25 19:41 G 18613670.26 18613670.32 18613670.37 0.0089 0.0079

Neptune 46250-08-21 20:38 G 18613758.30 18613758.36 18613758.45 0.0089 0.0072

Neptune 46250-11-17 22:05 G 18613846.33 18613846.42 18613846.51 0.0089 0.0064

Neptune 46251-02-13 23:17 G 18613934.38 18613934.47 18613934.58 0.0089 0.0057

Neptune 46251-05-13 00:29 G 18614022.42 18614022.52 18614022.64 0.0089 0.0049

Neptune 46251-08-09 01:55 G 18614110.47 18614110.58 18614110.70 0.0089 0.0041

Neptune 46251-11-05 03:07 G 18614198.51 18614198.63 18614198.75 0.0089 0.0034

Neptune 46252-02-01 04:19 G 18614286.56 18614286.68 18614286.81 0.0089 0.0026

Neptune 46252-04-29 05:46 G 18614374.61 18614374.74 18614374.87 0.0089 0.0018

Neptune 46252-07-26 06:58 G 18614462.66 18614462.79 18614462.92 0.0089 0.0011

Saturn 46252-10-21 13:55 G 18614549.98 18614550.08 18614550.19 0.0298 0.0168

Neptune 46252-10-22 08:10 G 18614550.71 18614550.84 18614550.97 0.0089 0.0004

Saturn 46253-01-18 01:55 G 18614638.45 18614638.58 18614638.71 0.0297 0.0006

Neptune 46253-01-18 09:22 G 18614638.77 18614638.89 18614639.03 0.0089 0.0006

Neptune 46253-04-16 10:48 G 18614726.82 18614726.95 18614727.08 0.0089 0.0012

Saturn 46253-04-16 13:41 G 18614726.97 18614727.07 18614727.18 0.0296 0.0175 *

Neptune 46253-07-13 12:00 G 18614814.87 18614815.00 18614815.13 0.0089 0.0020

Neptune 46253-10-09 13:12 G 18614902.93 18614903.05 18614903.18 0.0089 0.0028

Neptune 46254-01-05 14:38 G 18614990.99 18614991.11 18614991.23 0.0089 0.0035

Neptune 46254-04-03 15:36 G 18615079.04 18615079.15 18615079.27 0.0089 0.0043

Neptune 46254-06-30 16:48 G 18615167.10 18615167.20 18615167.32 0.0089 0.0051

Neptune 46254-09-26 18:14 G 18615255.17 18615255.26 18615255.36 0.0089 0.0058

Neptune 46254-12-23 19:26 G 18615343.23 18615343.31 18615343.40 0.0089 0.0066

Neptune 46255-03-21 20:53 G 18615431.30 18615431.37 18615431.44 0.0089 0.0073

Neptune 46255-06-17 21:50 G 18615519.37 18615519.41 18615519.47 0.0089 0.0081

Neptune 46255-09-13 23:02 G 18615607.46 18615607.46 18615607.48 0.0089 0.0089

Venus 46255-09-14 20:53 G 18615608.30 18615608.37 18615608.45 0.3690 0.2504

Jupiter 46255-10-26 00:00 G 18615649.31 18615649.50 18615649.69 0.0509 0.0037

Mars 46256-03-05 12:43 G 18615780.92 18615781.03 18615781.15 0.1913 0.0280

Earth 46256-04-16 16:34 G 18615823.04 18615823.19 18615823.33 0.2676 0.1262

Moon 46256-04-16 18:14 G 18615823.12 18615823.26 18615823.39 0.2680 0.1503 *

Mars 46258-12-11 01:26 G 18616791.39 18616791.56 18616791.73 0.1618 0.0103

Moon 46259-10-15 22:05 G 18617100.32 18617100.42 18617100.52 0.2661 0.0969

Earth 46259-10-15 22:19 G 18617100.33 18617100.43 18617100.53 0.2656 0.1000 *

Venus 46261-03-30 12:00 G 18617631.90 18617632.00 18617632.10 0.3689 0.0382

Jupiter 46261-06-23 09:50 G 18617716.79 18617716.91 18617717.04 0.0517 0.0070

Mars 46265-07-26 21:22 G 18619211.34 18619211.39 18619211.45 0.1908 0.1671

Moon 46266-10-08 23:46 G 18619650.44 18619650.49 18619650.54 0.2652 0.2369

Earth 46266-10-09 00:00 G 18619650.46 18619650.50 18619650.54 0.2658 0.2410 *

Venus 46266-10-14 03:22 G 18619655.55 18619655.64 18619655.72 0.3689 0.1813

Jupiter 46267-08-13 19:55 G 18619959.16 18619959.33 18619959.51 0.0508 0.0182

Mars 46268-05-02 02:10 G 18620221.56 18620221.59 18620221.62 0.1621 0.1585

Saturn 46268-07-31 05:17 G 18620311.60 18620311.72 18620311.85 0.0264 0.0199

Saturn 46268-10-28 03:22 G 18620400.45 18620400.64 18620400.84 0.0265 0.0014

Saturn 46269-01-25 01:26 G 18620489.43 18620489.56 18620489.71 0.0266 0.0176

Earth 46272-10-17 15:22 G 18621851.08 18621851.14 18621851.20 0.2655 0.2204

Moon 46272-10-17 15:22 G 18621851.09 18621851.14 18621851.20 0.2661 0.2252 *

Jupiter 46273-04-11 14:10 G 18622026.98 18622027.09 18622027.21 0.0518 0.0226

Jupiter 46273-07-09 18:00 G 18622116.16 18622116.25 18622116.34 0.0516 0.0367

Jupiter 46279-06-01 15:50 G 18624269.05 18624269.16 18624269.28 0.0508 0.0401

Jupiter 46279-08-31 06:43 G 18624359.74 18624359.78 18624359.83 0.0510 0.0490

Moon 46279-10-11 16:19 G 18624401.09 18624401.18 18624401.28 0.2655 0.1330

Earth 46279-10-11 17:02 G 18624401.11 18624401.21 18624401.30 0.2657 0.1185 *

Uranus 46281-10-30 21:07 G 18625151.35 18625151.38 18625151.45 0.0138 0.0133

Uranus 46282-01-27 05:17 G 18625239.60 18625239.72 18625239.86 0.0138 0.0103

Saturn 46282-03-10 16:34 G 18625282.10 18625282.19 18625282.28 0.0298 0.0214

Uranus 46282-04-25 13:12 G 18625327.90 18625328.05 18625328.23 0.0137 0.0074

Saturn 46282-06-07 04:34 G 18625370.56 18625370.69 18625370.81 0.0297 0.0042

Uranus 46282-07-22 21:22 G 18625416.21 18625416.39 18625416.58 0.0137 0.0044

Saturn 46282-09-03 16:19 G 18625459.06 18625459.18 18625459.29 0.0296 0.0130

Uranus 46282-10-19 05:17 G 18625504.53 18625504.72 18625504.92 0.0137 0.0015

Uranus 46283-01-15 13:12 G 18625592.86 18625593.05 18625593.25 0.0137 0.0015

Uranus 46283-04-13 21:07 G 18625681.20 18625681.38 18625681.57 0.0137 0.0044

Uranus 46283-07-11 05:02 G 18625769.55 18625769.71 18625769.88 0.0137 0.0073

Uranus 46283-10-07 12:43 G 18625857.91 18625858.03 18625858.17 0.0137 0.0102

Uranus 46284-01-03 20:24 G 18625946.31 18625946.35 18625946.42 0.0137 0.0131

Jupiter 46285-01-28 18:43 G 18626337.20 18626337.28 18626337.37 0.0519 0.0377

Jupiter 46285-04-27 22:48 G 18626426.33 18626426.45 18626426.56 0.0517 0.0220

Mars 46286-04-14 04:05 G 18626777.59 18626777.67 18626777.75 0.1917 0.1301

Pluto 46288-07-17 23:02 G 18627603.37 18627603.46 18627603.57 0.0076 0.0064

Pluto 46288-10-14 01:26 G 18627691.42 18627691.56 18627691.73 0.0075 0.0044

Pluto 46289-01-10 04:19 G 18627779.49 18627779.68 18627779.86 0.0075 0.0023

Mars 46289-01-19 00:58 G 18627788.52 18627788.54 18627788.57 0.1615 0.1588

Pluto 46289-04-08 06:43 G 18627867.59 18627867.78 18627867.97 0.0075 0.0003

Earth 46289-04-14 13:26 G 18627873.92 18627874.06 18627874.21 0.2675 0.1290

Moon 46289-04-14 14:38 G 18627873.96 18627874.11 18627874.25 0.2680 0.1252 *

Pluto 46289-07-05 08:53 G 18627955.70 18627955.87 18627956.07 0.0075 0.0018

Pluto 46289-10-01 11:17 G 18628043.82 18628043.97 18628044.15 0.0075 0.0038

Pluto 46289-12-28 13:41 G 18628131.96 18628132.07 18628132.21 0.0075 0.0058

Jupiter 46291-06-19 02:10 G 18628669.43 18628669.59 18628669.75 0.0509 0.0259

Moon 46292-10-13 09:22 G 18629151.78 18629151.89 18629152.00 0.2658 0.0052

Earth 46292-10-13 10:05 G 18629151.81 18629151.92 18629152.03 0.2656 0.0044 *

Mars 46295-09-04 12:43 G 18630207.92 18630208.03 18630208.15 0.1913 0.0113

Jupiter 46297-02-14 03:22 G 18630736.52 18630736.64 18630736.77 0.0518 0.0073

Saturn 46297-12-18 04:48 G 18631043.64 18631043.70 18631043.78 0.0265 0.0245

Saturn 46298-03-17 03:07 G 18631132.44 18631132.63 18631132.82 0.0265 0.0059

Mars 46298-06-11 01:55 G 18631218.41 18631218.58 18631218.75 0.1618 0.0119

Saturn 46298-06-14 01:12 G 18631221.39 18631221.55 18631221.72 0.0266 0.0129

Venus 46298-06-18 14:38 G 18631226.05 18631226.11 18631226.18 0.3681 0.3313

Earth 46302-04-18 23:31 G 18632625.37 18632625.48 18632625.60 0.2676 0.1832

Moon 46302-04-19 01:12 G 18632625.45 18632625.55 18632625.66 0.2680 0.2017 *

Jupiter 46303-04-07 21:50 G 18632979.22 18632979.41 18632979.60 0.0508 0.0036

Mars 46305-01-25 21:22 G 18633638.32 18633638.39 18633638.45 0.1908 0.1522

Moon 46305-10-17 02:53 G 18633902.52 18633902.62 18633902.71 0.2662 0.1184

Earth 46305-10-17 03:07 G 18633902.53 18633902.63 18633902.72 0.2655 0.1238 *

Mars 46307-11-02 02:53 G 18634648.53 18634648.62 18634648.71 0.1621 0.1356

Jupiter 46308-12-04 08:10 G 18635046.72 18635046.84 18635046.96 0.0518 0.0077

Jupiter 46309-03-03 11:46 G 18635135.99 18635135.99 18635136.00 0.0515 0.0514

Saturn 46311-07-29 19:12 G 18636014.24 18636014.30 18636014.37 0.0298 0.0255

Saturn 46311-10-26 07:12 G 18636102.68 18636102.80 18636102.93 0.0298 0.0082

Saturn 46312-01-22 19:12 G 18636191.18 18636191.30 18636191.42 0.0297 0.0091

Saturn 46312-04-20 06:58 G 18636279.73 18636279.79 18636279.85 0.0296 0.0260

Venus 46312-04-21 18:14 G 18636281.17 18636281.26 18636281.35 0.3690 0.1723

Moon 46312-10-10 04:19 G 18636452.63 18636452.68 18636452.74 0.2652 0.2242

Earth 46312-10-10 04:34 G 18636452.63 18636452.69 18636452.76 0.2658 0.2168 *

Jupiter 46315-01-24 17:17 G 18637289.04 18637289.22 18637289.39 0.0508 0.0193

Venus 46317-11-05 09:22 G 18638304.79 18638304.89 18638304.99 0.3689 0.0448

Earth 46318-10-19 19:55 G 18638653.30 18638653.33 18638653.37 0.2655 0.2440

Moon 46318-10-19 20:10 G 18638653.31 18638653.34 18638653.38 0.2660 0.2476 *

Jupiter 46320-09-22 12:58 G 18639356.93 18639357.04 18639357.16 0.0518 0.0222

Jupiter 46320-12-20 16:48 G 18639446.11 18639446.20 18639446.29 0.0516 0.0370

Venus 46323-05-22 00:43 G 18640328.46 18640328.53 18640328.60 0.3689 0.2606

Uranus 46325-07-18 15:07 G 18641117.09 18641117.13 18641117.19 0.0140 0.0129

Moon 46325-10-12 21:07 G 18641203.28 18641203.38 18641203.48 0.2656 0.0980

Earth 46325-10-12 21:36 G 18641203.30 18641203.40 18641203.51 0.2657 0.0955 *

Mars 46325-10-14 04:05 G 18641204.61 18641204.67 18641204.75 0.1917 0.1484

Uranus 46325-10-14 18:29 G 18641205.19 18641205.27 18641205.35 0.0141 0.0109

Uranus 46326-01-10 21:50 G 18641293.31 18641293.41 18641293.51 0.0141 0.0088

Uranus 46326-04-09 00:58 G 18641381.43 18641381.54 18641381.66 0.0141 0.0068

Uranus 46326-07-06 04:19 G 18641469.56 18641469.68 18641469.80 0.0141 0.0047

Uranus 46326-10-02 07:41 G 18641557.69 18641557.82 18641557.95 0.0141 0.0026

Jupiter 46326-11-12 13:26 G 18641598.95 18641599.06 18641599.18 0.0508 0.0408

Uranus 46326-12-29 11:02 G 18641645.83 18641645.96 18641646.09 0.0141 0.0006

Jupiter 46327-02-11 04:19 G 18641689.63 18641689.68 18641689.74 0.0510 0.0485

Uranus 46327-03-27 14:10 G 18641733.96 18641734.09 18641734.22 0.0141 0.0017

Uranus 46327-06-23 17:31 G 18641822.11 18641822.23 18641822.36 0.0141 0.0037

Saturn 46327-08-05 01:55 G 18641864.40 18641864.58 18641864.75 0.0264 0.0112

Uranus 46327-09-19 20:53 G 18641910.25 18641910.37 18641910.49 0.0141 0.0058

Saturn 46327-11-02 00:00 G 18641953.31 18641953.50 18641953.69 0.0265 0.0075

Uranus 46327-12-17 00:14 G 18641998.40 18641998.51 18641998.62 0.0141 0.0080

Saturn 46328-01-29 22:19 G 18642042.40 18642042.43 18642042.45 0.0266 0.0264

Uranus 46328-03-14 03:36 G 18642086.56 18642086.65 18642086.74 0.0142 0.0101

Uranus 46328-06-10 06:43 G 18642174.72 18642174.78 18642174.85 0.0142 0.0123

Jupiter 46332-07-11 17:31 G 18643667.14 18643667.23 18643667.31 0.0518 0.0377

Jupiter 46332-10-08 21:22 G 18643756.27 18643756.39 18643756.50 0.0516 0.0219

Neptune 46334-07-29 23:02 G 18644415.45 18644415.46 18644415.49 0.0088 0.0088

Neptune 46334-10-26 02:38 G 18644503.53 18644503.61 18644503.72 0.0088 0.0077

Neptune 46335-01-22 06:43 G 18644591.65 18644591.78 18644591.92 0.0088 0.0065

Mars 46335-03-06 12:43 G 18644634.92 18644635.03 18644635.14 0.1913 0.0057

Earth 46335-04-16 20:38 G 18644676.20 18644676.36 18644676.52 0.2675 0.0732

Moon 46335-04-16 21:50 G 18644676.25 18644676.41 18644676.57 0.2681 0.0495 *

Neptune 46335-04-20 10:19 G 18644679.78 18644679.93 18644680.10 0.0089 0.0054

Neptune 46335-07-17 13:55 G 18644767.92 18644768.08 18644768.27 0.0089 0.0043

Neptune 46335-10-13 17:46 G 18644856.07 18644856.24 18644856.44 0.0089 0.0031

Neptune 46336-01-09 21:36 G 18644944.21 18644944.40 18644944.60 0.0089 0.0019

Neptune 46336-04-07 01:26 G 18645032.37 18645032.56 18645032.76 0.0089 0.0008

Neptune 46336-07-04 05:17 G 18645120.52 18645120.72 18645120.92 0.0089 0.0004

Neptune 46336-09-30 08:53 G 18645208.68 18645208.87 18645209.07 0.0089 0.0016

Neptune 46336-12-27 12:43 G 18645296.85 18645297.03 18645297.22 0.0089 0.0027

Neptune 46337-03-25 16:19 G 18645385.01 18645385.18 18645385.37 0.0089 0.0039

Neptune 46337-06-21 20:10 G 18645473.19 18645473.34 18645473.51 0.0089 0.0050

Neptune 46337-09-17 23:46 G 18645561.36 18645561.49 18645561.65 0.0089 0.0062

Mars 46337-12-11 02:38 G 18645645.45 18645645.61 18645645.78 0.1618 0.0350

Neptune 46337-12-15 03:36 G 18645649.55 18645649.65 18645649.78 0.0089 0.0073

Neptune 46338-03-13 07:41 G 18645737.76 18645737.82 18645737.88 0.0089 0.0084

Moon 46338-10-15 14:10 G 18645953.99 18645954.09 18645954.20 0.2660 0.0161

Earth 46338-10-15 14:53 G 18645954.01 18645954.12 18645954.22 0.2656 0.0284 *

Jupiter 46338-11-30 00:29 G 18645999.36 18645999.52 18645999.68 0.0509 0.0265

Saturn 46341-03-14 09:07 G 18646834.77 18646834.88 18646835.00 0.0298 0.0135

Saturn 46341-06-10 21:07 G 18646923.25 18646923.38 18646923.51 0.0297 0.0038

Saturn 46341-09-07 08:53 G 18647011.78 18647011.87 18647011.96 0.0296 0.0209

Mars 46344-07-26 21:22 G 18648065.31 18648065.39 18648065.47 0.1908 0.1352

Jupiter 46344-07-28 01:55 G 18648066.46 18648066.58 18648066.71 0.0517 0.0072

Mars 46347-05-03 03:36 G 18649075.53 18649075.65 18649075.77 0.1621 0.1133

Earth 46348-04-19 06:29 G 18649427.70 18649427.77 18649427.85 0.2676 0.2388

Moon 46348-04-19 08:24 G 18649427.81 18649427.85 18649427.89 0.2678 0.2570 *

Jupiter 46350-09-17 20:10 G 18650309.15 18650309.34 18650309.52 0.0508 0.0040

Moon 46351-10-18 07:41 G 18650704.73 18650704.82 18650704.90 0.2662 0.1489

Earth 46351-10-18 07:55 G 18650704.74 18650704.83 18650704.91 0.2655 0.1478 *

Venus 46355-01-24 17:31 G 18651899.07 18651899.23 18651899.39 0.3681 0.0616

Jupiter 46356-05-16 06:43 G 18652376.66 18652376.78 18652376.90 0.0518 0.0078

Jupiter 46356-08-13 10:34 G 18652465.93 18652465.94 18652465.95 0.0516 0.0514

Saturn 46356-12-22 00:58 G 18652596.39 18652596.54 18652596.69 0.0265 0.0163

Saturn 46357-03-20 23:02 G 18652685.27 18652685.46 18652685.65 0.0265 0.0024

Saturn 46357-06-17 21:07 G 18652774.27 18652774.38 18652774.50 0.0266 0.0212

Moon 46358-10-11 08:53 G 18653254.80 18653254.87 18653254.95 0.2653 0.1959

Earth 46358-10-11 09:22 G 18653254.82 18653254.89 18653254.96 0.2658 0.1929 *

Jupiter 46362-07-06 15:50 G 18654618.99 18654619.16 18654619.34 0.0508 0.0183

Venus 46363-05-14 00:29 G 18654930.47 18654930.52 18654930.57 0.3690 0.3076

Mars 46365-04-14 04:05 G 18655631.61 18655631.67 18655631.73 0.1917 0.1625

Uranus 46365-11-21 04:34 G 18655852.62 18655852.69 18655852.78 0.0138 0.0125

Uranus 46366-02-17 12:29 G 18655940.89 18655941.02 18655941.18 0.0138 0.0096

Uranus 46366-05-16 20:38 G 18656029.19 18656029.36 18656029.54 0.0138 0.0066

Uranus 46366-08-13 04:34 G 18656117.51 18656117.69 18656117.89 0.0137 0.0036

Uranus 46366-11-09 12:43 G 18656205.83 18656206.03 18656206.23 0.0137 0.0007

Uranus 46367-02-05 20:24 G 18656294.16 18656294.35 18656294.55 0.0137 0.0024

Uranus 46367-05-05 04:19 G 18656382.51 18656382.68 18656382.87 0.0137 0.0052

Uranus 46367-08-01 12:14 G 18656470.86 18656471.01 18656471.17 0.0137 0.0081

Uranus 46367-10-28 19:55 G 18656559.23 18656559.33 18656559.46 0.0137 0.0110

Jupiter 46368-03-04 11:31 G 18656686.87 18656686.98 18656687.09 0.0518 0.0224

Jupiter 46368-06-01 15:22 G 18656776.05 18656776.14 18656776.23 0.0516 0.0368

Venus 46368-11-26 15:36 G 18656954.05 18656954.15 18656954.25 0.3689 0.0935

Saturn 46370-08-01 11:31 G 18657566.88 18657566.98 18657567.08 0.0298 0.0182

Saturn 46370-10-28 23:31 G 18657655.35 18657655.48 18657655.61 0.0297 0.0009

Saturn 46371-01-25 11:17 G 18657743.87 18657743.97 18657744.08 0.0297 0.0163

Moon 46371-10-14 01:55 G 18658005.47 18658005.58 18658005.68 0.2656 0.0863

Earth 46371-10-14 02:24 G 18658005.50 18658005.60 18658005.71 0.2657 0.0710 *

Jupiter 46374-04-24 11:02 G 18658928.86 18658928.96 18658929.07 0.0508 0.0413

Venus 46374-06-12 06:43 G 18658977.69 18658977.78 18658977.88 0.3689 0.1232

Jupiter 46374-07-24 01:55 G 18659019.53 18659019.58 18659019.65 0.0510 0.0480

Mars 46374-09-04 12:43 G 18659061.92 18659062.03 18659062.14 0.1913 0.0218

Mars 46377-06-11 03:36 G 18660072.49 18660072.65 18660072.80 0.1618 0.0585

Jupiter 46379-12-22 16:19 G 18660997.10 18660997.18 18660997.27 0.0518 0.0369

Venus 46379-12-26 21:50 G 18661001.38 18661001.41 18661001.45 0.3689 0.3398

Jupiter 46380-03-20 20:24 G 18661086.23 18661086.35 18661086.46 0.0516 0.0227

Earth 46381-04-17 03:36 G 18661478.48 18661478.65 18661478.81 0.2675 0.0181

Moon 46381-04-17 04:48 G 18661478.54 18661478.70 18661478.86 0.2681 0.0139 *

Mars 46384-01-25 21:22 G 18662492.30 18662492.39 18662492.48 0.1908 0.1174

Moon 46384-10-15 18:58 G 18662756.19 18662756.29 18662756.40 0.2661 0.0506

Earth 46384-10-15 19:26 G 18662756.21 18662756.31 18662756.42 0.2656 0.0509 *

Saturn 46386-05-10 23:17 G 18663328.37 18663328.47 18663328.58 0.0264 0.0218

Jupiter 46386-05-11 22:19 G 18663329.27 18663329.43 18663329.60 0.0509 0.0265

Saturn 46386-08-07 21:22 G 18663417.19 18663417.39 18663417.58 0.0264 0.0034

Mars 46386-11-01 04:19 G 18663502.54 18663502.68 18663502.82 0.1621 0.0899

Saturn 46386-11-04 19:12 G 18663506.15 18663506.30 18663506.46 0.0265 0.0153

Jupiter 46392-01-08 00:58 G 18665396.41 18665396.54 18665396.66 0.0517 0.0078

Moon 46397-10-18 12:29 G 18667506.93 18667507.02 18667507.10 0.2662 0.1656

Earth 46397-10-18 12:29 G 18667506.94 18667507.02 18667507.10 0.2655 0.1708 *

Jupiter 46398-02-27 18:43 G 18667639.09 18667639.28 18667639.47 0.0509 0.0049

Saturn 46399-12-19 12:58 G 18668298.97 18668299.04 18668299.12 0.0299 0.0243

Saturn 46400-03-17 00:58 G 18668387.42 18668387.54 18668387.67 0.0298 0.0069

Saturn 46400-06-13 12:58 G 18668475.92 18668476.04 18668476.16 0.0297 0.0104

Saturn 46400-09-10 00:43 G 18668564.49 18668564.53 18668564.58 0.0296 0.0275

Jupiter 46403-10-27 05:31 G 18669706.61 18669706.73 18669706.85 0.0517 0.0072

Moon 46404-10-11 13:41 G 18670056.99 18670057.07 18670057.15 0.2654 0.1768

Earth 46404-10-11 14:10 G 18670057.01 18670057.09 18670057.17 0.2658 0.1688 *

Mars 46404-10-13 04:05 G 18670058.63 18670058.67 18670058.70 0.1917 0.1795

Uranus 46409-08-07 22:34 G 18671818.39 18671818.44 18671818.51 0.0140 0.0123

Uranus 46409-11-04 01:55 G 18671906.50 18671906.58 18671906.67 0.0140 0.0103

Jupiter 46409-12-16 14:24 G 18671948.93 18671949.10 18671949.28 0.0508 0.0174

Uranus 46410-01-31 05:17 G 18671994.61 18671994.72 18671994.82 0.0141 0.0082

Uranus 46410-04-29 08:24 G 18672082.74 18672082.85 18672082.97 0.0141 0.0062

Uranus 46410-07-26 11:46 G 18672170.87 18672170.99 18672171.12 0.0141 0.0041

Uranus 46410-10-22 15:07 G 18672259.00 18672259.13 18672259.26 0.0141 0.0020

Uranus 46411-01-18 18:29 G 18672347.14 18672347.27 18672347.40 0.0141 0.0005

Uranus 46411-04-16 21:36 G 18672435.27 18672435.40 18672435.53 0.0141 0.0022

Uranus 46411-07-14 00:58 G 18672523.42 18672523.54 18672523.66 0.0141 0.0043

Venus 46411-08-31 20:10 G 18672572.21 18672572.34 18672572.47 0.3681 0.2070

Uranus 46411-10-10 04:19 G 18672611.56 18672611.68 18672611.79 0.0141 0.0064

Uranus 46412-01-06 07:26 G 18672699.72 18672699.81 18672699.92 0.0141 0.0086

Uranus 46412-04-03 10:48 G 18672787.87 18672787.95 18672788.04 0.0141 0.0107

Uranus 46412-06-30 14:24 G 18672876.04 18672876.10 18672876.15 0.0142 0.0128

Mars 46414-03-05 12:43 G 18673488.92 18673489.03 18673489.14 0.1913 0.0388

Neptune 46414-11-24 17:31 G 18673753.20 18673753.23 18673753.26 0.0089 0.0086

Neptune 46415-02-20 18:58 G 18673841.23 18673841.29 18673841.35 0.0089 0.0078

Neptune 46415-05-19 19:55 G 18673929.26 18673929.33 18673929.42 0.0089 0.0071

Jupiter 46415-08-15 10:19 G 18674016.81 18674016.93 18674017.04 0.0518 0.0222

Neptune 46415-08-15 21:22 G 18674017.30 18674017.39 18674017.48 0.0089 0.0063

Neptune 46415-11-11 22:19 G 18674105.34 18674105.43 18674105.55 0.0089 0.0056

Jupiter 46415-11-12 13:55 G 18674106.00 18674106.08 18674106.17 0.0516 0.0373

Saturn 46415-12-25 19:41 G 18674149.14 18674149.32 18674149.50 0.0265 0.0090

Neptune 46416-02-07 23:46 G 18674193.39 18674193.49 18674193.61 0.0089 0.0048

Saturn 46416-03-23 17:46 G 18674238.06 18674238.24 18674238.42 0.0265 0.0097

Neptune 46416-05-06 01:12 G 18674281.43 18674281.55 18674281.67 0.0089 0.0040

Neptune 46416-08-02 02:24 G 18674369.48 18674369.60 18674369.72 0.0089 0.0032

Neptune 46416-10-29 03:36 G 18674457.53 18674457.65 18674457.78 0.0089 0.0025

Mars 46416-12-10 04:05 G 18674499.53 18674499.67 18674499.82 0.1618 0.0805

Neptune 46417-01-25 05:02 G 18674545.58 18674545.71 18674545.84 0.0089 0.0017

Neptune 46417-04-23 06:14 G 18674633.63 18674633.76 18674633.89 0.0089 0.0010

Neptune 46417-07-20 07:26 G 18674721.68 18674721.81 18674721.94 0.0089 0.0003

Moon 46417-10-14 06:29 G 18674807.67 18674807.77 18674807.88 0.2657 0.0519

Earth 46417-10-14 07:12 G 18674807.69 18674807.80 18674807.91 0.2657 0.0471 *

Neptune 46417-10-16 08:38 G 18674809.74 18674809.86 18674810.00 0.0089 0.0007

Neptune 46418-01-12 10:05 G 18674897.79 18674897.92 18674898.05 0.0089 0.0013

Neptune 46418-04-10 11:17 G 18674985.84 18674985.97 18674986.10 0.0089 0.0021

Neptune 46418-07-07 12:29 G 18675073.90 18675074.02 18675074.15 0.0089 0.0029

Neptune 46418-10-03 13:41 G 18675161.96 18675162.07 18675162.20 0.0089 0.0037

Neptune 46418-12-30 15:07 G 18675250.02 18675250.13 18675250.24 0.0089 0.0044

Neptune 46419-03-28 16:05 G 18675338.07 18675338.17 18675338.29 0.0089 0.0052

Neptune 46419-06-24 17:31 G 18675426.14 18675426.23 18675426.33 0.0089 0.0059

Neptune 46419-09-20 18:43 G 18675514.20 18675514.28 18675514.37 0.0089 0.0067

Neptune 46419-12-17 19:41 G 18675602.27 18675602.32 18675602.41 0.0089 0.0075

Venus 46419-12-18 21:50 G 18675603.33 18675603.41 18675603.49 0.3690 0.2298

Neptune 46420-03-14 21:07 G 18675690.34 18675690.38 18675690.44 0.0089 0.0082

Jupiter 46421-10-04 10:19 G 18676258.82 18676258.93 18676259.06 0.0507 0.0393

Jupiter 46422-01-03 01:12 G 18676349.52 18676349.55 18676349.59 0.0509 0.0498

Mars 46423-07-26 21:07 G 18676919.29 18676919.38 18676919.48 0.1908 0.1036

Venus 46425-07-03 12:58 G 18677626.94 18677627.04 18677627.14 0.3689 0.0166

Mars 46426-05-02 05:02 G 18677929.56 18677929.71 18677929.87 0.1621 0.0671

Earth 46427-04-18 10:34 G 18678280.78 18678280.94 18678281.11 0.2675 0.0396

Moon 46427-04-18 12:00 G 18678280.84 18678281.00 18678281.16 0.2680 0.0668 *

Jupiter 46427-06-03 15:07 G 18678327.04 18678327.13 18678327.22 0.0518 0.0366

Jupiter 46427-08-31 18:58 G 18678416.18 18678416.29 18678416.41 0.0516 0.0230

Saturn 46429-05-07 14:53 G 18679031.11 18679031.12 18679031.14 0.0299 0.0296

Saturn 46429-08-04 02:53 G 18679119.51 18679119.62 18679119.74 0.0298 0.0121

Saturn 46429-10-31 14:53 G 18679208.00 18679208.12 18679208.25 0.0297 0.0054

Saturn 46430-01-28 02:38 G 18679296.54 18679296.61 18679296.70 0.0296 0.0225

Moon 46430-10-16 23:46 G 18679558.39 18679558.49 18679558.60 0.2661 0.0626

Earth 46430-10-17 00:14 G 18679558.41 18679558.51 18679558.61 0.2656 0.0741 *

Venus 46431-01-17 04:05 G 18679650.59 18679650.67 18679650.75 0.3689 0.2021

Jupiter 46433-10-21 20:24 G 18680659.19 18680659.35 18680659.51 0.0509 0.0265

Moon 46437-10-10 01:41 G 18682108.57 18682108.57 18682108.57 0.2652 0.2652

Jupiter 46439-03-22 20:10 G 18682637.32 18682637.34 18682637.36 0.0519 0.0508

Jupiter 46439-06-20 00:00 G 18682726.38 18682726.50 18682726.63 0.0517 0.0091

Moon 46443-10-19 17:17 G 18684309.15 18684309.22 18684309.29 0.2661 0.2012

Earth 46443-10-19 17:17 G 18684309.15 18684309.22 18684309.29 0.2655 0.1945 *

Saturn 46445-05-13 17:31 G 18684881.08 18684881.23 18684881.40 0.0264 0.0149

Jupiter 46445-08-09 16:48 G 18684969.02 18684969.20 18684969.39 0.0509 0.0053

Saturn 46445-08-10 15:36 G 18684969.96 18684970.15 18684970.35 0.0264 0.0037

Saturn 46445-11-07 13:41 G 18685058.97 18685059.07 18685059.18 0.0265 0.0223

Uranus 46449-12-11 10:48 G 18686553.87 18686553.95 18686554.05 0.0138 0.0121

Uranus 46450-03-09 18:58 G 18686642.15 18686642.29 18686642.44 0.0138 0.0091

Pluto 46450-04-16 20:53 G 18686680.33 18686680.37 18686680.44 0.0068 0.0062

Uranus 46450-06-06 02:53 G 18686730.45 18686730.62 18686730.80 0.0138 0.0062

Pluto 46450-07-13 21:50 G 18686768.32 18686768.41 18686768.50 0.0068 0.0051

Uranus 46450-09-02 11:02 G 18686818.77 18686818.96 18686819.15 0.0137 0.0032

Pluto 46450-10-09 22:05 G 18686856.33 18686856.42 18686856.54 0.0068 0.0041

Moon 46450-10-12 18:14 G 18686859.17 18686859.26 18686859.35 0.2654 0.1531

Earth 46450-10-12 18:58 G 18686859.20 18686859.29 18686859.37 0.2658 0.1454 *

Uranus 46450-11-29 18:58 G 18686907.09 18686907.29 18686907.49 0.0137 0.0003

Pluto 46451-01-05 22:48 G 18686944.34 18686944.45 18686944.57 0.0068 0.0031

Uranus 46451-02-26 02:38 G 18686995.43 18686995.61 18686995.81 0.0137 0.0028

Pluto 46451-04-03 23:17 G 18687032.35 18687032.47 18687032.61 0.0068 0.0020

Jupiter 46451-04-08 04:34 G 18687036.57 18687036.69 18687036.82 0.0517 0.0064

Uranus 46451-05-25 10:34 G 18687083.77 18687083.94 18687084.13 0.0137 0.0056

Pluto 46451-07-01 00:00 G 18687120.37 18687120.50 18687120.63 0.0068 0.0009

Uranus 46451-08-21 18:29 G 18687172.12 18687172.27 18687172.43 0.0137 0.0085

Pluto 46451-09-27 00:29 G 18687208.39 18687208.52 18687208.66 0.0068 0.0003

Uranus 46451-11-18 02:24 G 18687260.50 18687260.60 18687260.71 0.0137 0.0114

Pluto 46451-12-24 01:12 G 18687296.42 18687296.55 18687296.68 0.0069 0.0012

Pluto 46452-03-21 01:26 G 18687384.44 18687384.56 18687384.70 0.0069 0.0023

Pluto 46452-06-17 01:55 G 18687472.48 18687472.58 18687472.71 0.0069 0.0034

Pluto 46452-09-13 02:38 G 18687560.52 18687560.61 18687560.72 0.0069 0.0044

Pluto 46452-12-10 03:07 G 18687648.56 18687648.63 18687648.72 0.0069 0.0055

Pluto 46453-03-08 03:36 G 18687736.63 18687736.65 18687736.70 0.0069 0.0066

Mars 46453-09-03 12:29 G 18687915.92 18687916.02 18687916.13 0.1913 0.0546

Mars 46456-06-10 04:48 G 18688926.57 18688926.70 18688926.83 0.1618 0.1033

Jupiter 46457-05-28 13:26 G 18689278.88 18689279.06 18689279.24 0.0508 0.0161

Saturn 46458-12-22 03:50 G 18689851.57 18689851.66 18689851.76 0.0299 0.0189

Saturn 46459-03-20 15:50 G 18689940.04 18689940.16 18689940.29 0.0298 0.0017

Saturn 46459-06-17 03:50 G 18690028.55 18690028.66 18690028.77 0.0297 0.0158

Earth 46460-04-15 07:41 G 18690331.73 18690331.82 18690331.92 0.2674 0.2139

Moon 46460-04-15 08:24 G 18690331.75 18690331.85 18690331.96 0.2681 0.1993 *

Venus 46462-09-21 11:17 G 18691220.92 18691220.97 18691221.01 0.3681 0.3517

Mars 46463-01-24 21:22 G 18691346.28 18691346.39 18691346.49 0.1908 0.0856

Jupiter 46463-01-25 09:22 G 18691346.78 18691346.89 18691347.01 0.0518 0.0210

Jupiter 46463-04-24 13:12 G 18691435.97 18691436.05 18691436.13 0.0516 0.0383

Moon 46463-10-15 11:17 G 18691609.87 18691609.97 18691610.08 0.2659 0.0340

Earth 46463-10-15 12:00 G 18691609.89 18691610.00 18691610.10 0.2657 0.0239 *

Mars 46465-10-31 05:46 G 18692356.58 18692356.74 18692356.91 0.1621 0.0443

Jupiter 46469-03-16 09:36 G 18693588.77 18693588.90 18693589.02 0.0508 0.0378

Venus 46471-01-09 04:05 G 18694252.66 18694252.67 18694252.68 0.3690 0.3656

Earth 46473-04-18 17:46 G 18695083.09 18695083.24 18695083.39 0.2675 0.0961

Moon 46473-04-18 19:26 G 18695083.16 18695083.31 18695083.46 0.2679 0.1055 *

Saturn 46474-09-30 15:36 G 18695613.04 18695613.15 18695613.27 0.0264 0.0209

Jupiter 46474-11-13 13:55 G 18695657.00 18695657.08 18695657.18 0.0519 0.0360

Saturn 46474-12-28 13:41 G 18695701.87 18695702.07 18695702.26 0.0264 0.0025

Jupiter 46475-02-10 18:00 G 18695746.14 18695746.25 18695746.36 0.0517 0.0237

Saturn 46475-03-27 11:31 G 18695790.83 18695790.98 18695791.14 0.0265 0.0162

Venus 46476-07-24 18:58 G 18696276.20 18696276.29 18696276.39 0.3690 0.1529

Moon 46476-10-17 04:34 G 18696360.59 18696360.69 18696360.79 0.2661 0.0976

Earth 46476-10-17 05:02 G 18696360.61 18696360.71 18696360.81 0.2656 0.0980 *

Jupiter 46481-04-02 20:24 G 18697989.19 18697989.35 18697989.50 0.0509 0.0292

Venus 46482-02-07 10:19 G 18698299.83 18698299.93 18698300.03 0.3689 0.0656

Moon 46483-10-11 06:14 G 18698910.73 18698910.76 18698910.79 0.2653 0.2509

Earth 46483-10-11 06:29 G 18698910.73 18698910.77 18698910.81 0.2659 0.2433 *

Jupiter 46486-09-01 18:58 G 18699967.27 18699967.29 18699967.32 0.0519 0.0502

Jupiter 46486-11-29 23:02 G 18700056.34 18700056.46 18700056.58 0.0517 0.0096

Venus 46487-08-24 01:26 G 18700323.49 18700323.56 18700323.62 0.3689 0.2806

Saturn 46488-05-10 05:31 G 18700583.66 18700583.73 18700583.80 0.0299 0.0246

Saturn 46488-08-06 17:31 G 18700672.11 18700672.23 18700672.36 0.0298 0.0071

Saturn 46488-11-03 05:31 G 18700760.61 18700760.73 18700760.85 0.0297 0.0103

Saturn 46489-01-30 17:17 G 18700849.18 18700849.22 18700849.27 0.0296 0.0274

Earth 46489-10-19 21:50 G 18701111.35 18701111.41 18701111.47 0.2655 0.2181

Moon 46489-10-19 22:05 G 18701111.36 18701111.42 18701111.48 0.2661 0.2161 *

Jupiter 46493-01-19 15:22 G 18702298.95 18702299.14 18702299.32 0.0509 0.0058

Mars 46493-03-04 12:43 G 18702342.92 18702343.03 18702343.13 0.1913 0.0718

Uranus 46493-06-01 03:07 G 18702431.60 18702431.63 18702431.65 0.0140 0.0137

Uranus 46493-08-28 06:14 G 18702519.69 18702519.76 18702519.84 0.0140 0.0116

Uranus 46493-11-24 09:36 G 18702607.81 18702607.90 18702607.99 0.0140 0.0096

Uranus 46494-02-20 12:43 G 18702695.93 18702696.03 18702696.15 0.0141 0.0076

Uranus 46494-05-19 16:05 G 18702784.05 18702784.17 18702784.29 0.0141 0.0055

Uranus 46494-08-15 19:26 G 18702872.18 18702872.31 18702872.43 0.0141 0.0034

Uranus 46494-11-11 22:34 G 18702960.32 18702960.44 18702960.57 0.0141 0.0014

Uranus 46495-02-08 01:55 G 18703048.45 18703048.58 18703048.71 0.0141 0.0008

Uranus 46495-05-07 05:17 G 18703136.59 18703136.72 18703136.85 0.0141 0.0029

Uranus 46495-08-03 08:24 G 18703224.74 18703224.85 18703224.98 0.0141 0.0051

Uranus 46495-10-30 11:46 G 18703312.88 18703312.99 18703313.11 0.0141 0.0071

Mars 46495-12-10 05:46 G 18703353.64 18703353.74 18703353.84 0.1618 0.1274

Uranus 46496-01-26 15:07 G 18703401.04 18703401.13 18703401.23 0.0141 0.0092

Uranus 46496-04-23 18:29 G 18703489.20 18703489.27 18703489.35 0.0141 0.0114

Uranus 46496-07-20 21:50 G 18703577.38 18703577.41 18703577.45 0.0141 0.0135

Moon 46496-10-12 23:02 G 18703661.36 18703661.46 18703661.55 0.2654 0.1271

Earth 46496-10-12 23:31 G 18703661.39 18703661.48 18703661.58 0.2658 0.1213 *

Jupiter 46498-09-18 04:05 G 18704366.55 18704366.67 18704366.80 0.0517 0.0045

Neptune 46499-04-25 20:53 G 18704586.32 18704586.37 18704586.43 0.0088 0.0085

Neptune 46499-07-23 00:14 G 18704674.42 18704674.51 18704674.64 0.0088 0.0074

Neptune 46499-10-19 04:34 G 18704762.55 18704762.69 18704762.83 0.0088 0.0062

Neptune 46500-01-15 07:55 G 18704850.68 18704850.83 18704851.01 0.0089 0.0051

Neptune 46500-04-13 11:46 G 18704938.82 18704938.99 18704939.18 0.0089 0.0039

Neptune 46500-07-10 15:36 G 18705026.97 18705027.15 18705027.35 0.0089 0.0028

Neptune 46500-10-06 19:26 G 18705115.12 18705115.31 18705115.51 0.0089 0.0016

Neptune 46501-01-02 23:17 G 18705203.27 18705203.47 18705203.67 0.0089 0.0005

Neptune 46501-04-01 03:07 G 18705291.43 18705291.63 18705291.82 0.0089 0.0007

Neptune 46501-06-28 06:43 G 18705379.59 18705379.78 18705379.98 0.0089 0.0018

Neptune 46501-09-24 10:19 G 18705467.75 18705467.93 18705468.13 0.0089 0.0030

Neptune 46501-12-21 13:55 G 18705555.92 18705556.08 18705556.27 0.0089 0.0042

Neptune 46502-03-19 17:46 G 18705644.10 18705644.24 18705644.41 0.0089 0.0053

Neptune 46502-06-15 21:50 G 18705732.28 18705732.41 18705732.55 0.0089 0.0064

Mars 46502-07-26 21:07 G 18705773.28 18705773.38 18705773.49 0.1908 0.0690

Neptune 46502-09-12 01:12 G 18705820.47 18705820.55 18705820.67 0.0089 0.0076

Neptune 46502-12-09 05:17 G 18705908.69 18705908.72 18705908.76 0.0089 0.0087

Saturn 46504-05-17 11:17 G 18706433.79 18706433.97 18706434.16 0.0264 0.0086

Saturn 46504-08-14 09:22 G 18706522.71 18706522.89 18706523.07 0.0264 0.0099

Jupiter 46504-11-08 11:46 G 18706608.81 18706608.99 18706609.17 0.0509 0.0155

Mars 46505-05-02 06:29 G 18706783.60 18706783.77 18706783.94 0.1621 0.0216

Earth 46506-04-17 14:38 G 18707133.98 18707134.11 18707134.25 0.2674 0.1583

Moon 46506-04-17 15:36 G 18707134.02 18707134.15 18707134.28 0.2681 0.1532 *

Moon 46509-10-16 16:05 G 18708412.06 18708412.17 18708412.28 0.2660 0.0082

Earth 46509-10-16 16:34 G 18708412.09 18708412.19 18708412.30 0.2657 0.0094 *

Jupiter 46510-07-08 08:38 G 18708676.75 18708676.86 18708676.98 0.0518 0.0194

Jupiter 46510-10-05 12:29 G 18708765.94 18708766.02 18708766.10 0.0515 0.0398

Jupiter 46516-08-27 08:24 G 18710918.73 18710918.85 18710918.99 0.0508 0.0364

Saturn 46517-12-25 18:14 G 18711404.15 18711404.26 18711404.37 0.0299 0.0142

Saturn 46518-03-24 06:14 G 18711492.63 18711492.76 18711492.89 0.0298 0.0032

Saturn 46518-06-20 18:00 G 18711581.17 18711581.25 18711581.35 0.0297 0.0205

Earth 46519-04-21 00:43 G 18711885.40 18711885.53 18711885.67 0.2676 0.1516

Moon 46519-04-21 02:38 G 18711885.49 18711885.61 18711885.73 0.2677 0.1829 *

Venus 46519-04-29 14:10 G 18711893.93 18711894.09 18711894.24 0.3681 0.0793

Jupiter 46522-04-26 13:26 G 18712986.97 18712987.06 18712987.15 0.0518 0.0342

Jupiter 46522-07-24 17:17 G 18713076.11 18713076.22 18713076.33 0.0516 0.0252

Moon 46522-10-19 09:22 G 18713162.80 18713162.89 18713162.99 0.2661 0.1145

Earth 46522-10-19 09:36 G 18713162.81 18713162.90 18713163.00 0.2656 0.1216 *

Venus 46527-08-17 01:12 G 18714925.49 18714925.55 18714925.61 0.3690 0.2887

Jupiter 46528-09-13 19:26 G 18715319.17 18715319.31 18715319.46 0.0509 0.0311

Moon 46529-10-12 10:48 G 18715712.89 18715712.95 18715713.01 0.2653 0.2183

Earth 46529-10-12 11:17 G 18715712.91 18715712.97 18715713.03 0.2658 0.2197 *

Mars 46532-09-03 12:29 G 18716769.92 18716770.02 18716770.12 0.1913 0.0874

Venus 46533-03-01 16:19 G 18716949.08 18716949.18 18716949.28 0.3690 0.0738

Saturn 46533-10-04 08:53 G 18717165.71 18717165.87 18717166.03 0.0264 0.0149

Saturn 46534-01-01 06:43 G 18717254.59 18717254.78 18717254.98 0.0264 0.0037

Uranus 46534-01-01 18:00 G 18717255.14 18717255.25 18717255.36 0.0138 0.0114

Jupiter 46534-02-12 18:00 G 18717297.22 18717297.25 18717297.29 0.0519 0.0493

Uranus 46534-03-31 01:41 G 18717343.43 18717343.57 18717343.74 0.0138 0.0085

Saturn 46534-03-31 04:48 G 18717343.60 18717343.70 18717343.81 0.0265 0.0223 *

Jupiter 46534-05-12 22:05 G 18717386.30 18717386.42 18717386.54 0.0517 0.0106

Uranus 46534-06-27 09:50 G 18717431.73 18717431.91 18717432.10 0.0138 0.0055

Uranus 46534-09-23 17:46 G 18717520.05 18717520.24 18717520.44 0.0137 0.0026

Uranus 46534-12-21 01:55 G 18717608.38 18717608.58 18717608.77 0.0137 0.0005

Uranus 46535-03-19 09:50 G 18717696.72 18717696.91 18717697.10 0.0137 0.0034

Mars 46535-06-11 06:14 G 18717780.70 18717780.76 18717780.83 0.1618 0.1489

Uranus 46535-06-15 17:31 G 18717785.06 18717785.23 18717785.41 0.0137 0.0063

Uranus 46535-09-12 01:12 G 18717873.42 18717873.55 18717873.71 0.0137 0.0093

Earth 46535-10-22 02:38 G 18717913.57 18717913.61 18717913.65 0.2655 0.2413

Moon 46535-10-22 02:53 G 18717913.59 18717913.62 18717913.65 0.2661 0.2511 *

Uranus 46535-12-09 09:07 G 18717961.80 18717961.88 18717961.98 0.0137 0.0121

Pluto 46536-11-11 03:36 G 18718299.59 18718299.65 18718299.75 0.0076 0.0069

Pluto 46537-02-07 06:29 G 18718387.62 18718387.77 18718387.92 0.0076 0.0048

Pluto 46537-05-06 08:38 G 18718475.69 18718475.86 18718476.05 0.0075 0.0028

Pluto 46537-08-02 11:17 G 18718563.78 18718563.97 18718564.17 0.0075 0.0007

Pluto 46537-10-29 13:41 G 18718651.89 18718652.07 18718652.27 0.0075 0.0014

Pluto 46538-01-25 16:19 G 18718740.01 18718740.18 18718740.35 0.0075 0.0033

Pluto 46538-04-23 18:14 G 18718828.15 18718828.26 18718828.42 0.0075 0.0054

Pluto 46538-07-20 20:38 G 18718916.35 18718916.36 18718916.42 0.0075 0.0074

Venus 46538-09-15 07:26 G 18718972.72 18718972.81 18718972.90 0.3689 0.1423

Jupiter 46540-07-02 15:36 G 18719628.96 18719629.15 18719629.33 0.0509 0.0091

Mars 46542-01-24 21:07 G 18720200.27 18720200.38 18720200.49 0.1908 0.0540

Moon 46542-10-15 03:36 G 18720463.56 18720463.65 18720463.75 0.2656 0.1100

Earth 46542-10-15 04:19 G 18720463.58 18720463.68 18720463.78 0.2657 0.0974 *

Venus 46544-03-30 22:34 G 18720996.43 18720996.44 18720996.46 0.3689 0.3600

Mars 46544-10-31 07:12 G 18721210.63 18721210.80 18721210.97 0.1621 0.0025

Jupiter 46546-03-01 03:07 G 18721696.51 18721696.63 18721696.76 0.0517 0.0035

Saturn 46547-05-14 19:26 G 18722136.22 18722136.31 18722136.41 0.0299 0.0205

Saturn 46547-08-11 07:41 G 18722224.69 18722224.82 18722224.94 0.0298 0.0030

Saturn 46547-11-07 19:26 G 18722313.20 18722313.31 18722313.42 0.0297 0.0144

Earth 46552-04-17 21:50 G 18723936.25 18723936.41 18723936.56 0.2675 0.1033

Moon 46552-04-17 22:48 G 18723936.30 18723936.45 18723936.60 0.2680 0.0904 *

Jupiter 46552-04-20 10:19 G 18723938.75 18723938.93 18723939.11 0.0509 0.0146

Mars 46554-03-23 08:10 G 18724640.77 18724640.84 18724640.91 0.1625 0.1467

Moon 46555-10-17 20:53 G 18725214.26 18725214.37 18725214.47 0.2660 0.0202

Earth 46555-10-17 21:22 G 18725214.28 18725214.39 18725214.50 0.2657 0.0242 *

Jupiter 46557-12-18 08:10 G 18726006.73 18726006.84 18726006.96 0.0518 0.0175

Jupiter 46558-03-17 12:00 G 18726095.93 18726096.00 18726096.07 0.0515 0.0418

Saturn 46563-02-21 06:43 G 18727897.66 18727897.78 18727897.89 0.0263 0.0209

Saturn 46563-05-21 04:34 G 18727986.49 18727986.69 18727986.88 0.0264 0.0026

Saturn 46563-08-18 02:10 G 18728075.45 18728075.59 18728075.76 0.0264 0.0160

Jupiter 46564-02-07 06:58 G 18728248.66 18728248.79 18728248.93 0.0508 0.0356

Earth 46565-04-21 07:41 G 18728687.72 18728687.82 18728687.93 0.2676 0.2078

Moon 46565-04-21 09:50 G 18728687.82 18728687.91 18728687.99 0.2678 0.2239 *

Moon 46568-10-19 14:10 G 18729965.01 18729965.09 18729965.18 0.2662 0.1451

Earth 46568-10-19 14:24 G 18729965.01 18729965.10 18729965.19 0.2656 0.1447 *

Jupiter 46569-10-06 12:58 G 18730316.94 18730317.04 18730317.14 0.0518 0.0323

Jupiter 46570-01-03 16:48 G 18730406.09 18730406.20 18730406.30 0.0516 0.0270

Mars 46572-03-04 12:29 G 18731196.93 18731197.02 18731197.11 0.1913 0.1037

Moon 46575-10-13 15:36 G 18732515.08 18732515.15 18732515.21 0.2653 0.2063

Earth 46575-10-13 15:50 G 18732515.09 18732515.16 18732515.24 0.2658 0.1955 *

Venus 46575-12-04 16:48 G 18732567.07 18732567.20 18732567.34 0.3681 0.1939

Jupiter 46576-02-24 18:43 G 18732649.14 18732649.28 18732649.42 0.0510 0.0328

Saturn 46576-09-30 19:55 G 18732868.29 18732868.33 18732868.38 0.0300 0.0280

Saturn 46576-12-28 08:10 G 18732956.72 18732956.84 18732956.96 0.0299 0.0103

Saturn 46577-03-26 20:10 G 18733045.21 18733045.34 18733045.46 0.0298 0.0072

Uranus 46577-06-22 10:48 G 18733132.91 18733132.95 18733133.00 0.0140 0.0129

Saturn 46577-06-23 07:55 G 18733133.76 18733133.83 18733133.91 0.0297 0.0244

Uranus 46577-09-18 14:10 G 18733221.01 18733221.09 18733221.17 0.0140 0.0109

Uranus 46577-12-15 17:17 G 18733309.12 18733309.22 18733309.32 0.0140 0.0088

Uranus 46578-03-13 20:38 G 18733397.25 18733397.36 18733397.47 0.0141 0.0068

Uranus 46578-06-10 00:00 G 18733485.37 18733485.50 18733485.62 0.0141 0.0047

Uranus 46578-09-06 03:07 G 18733573.50 18733573.63 18733573.76 0.0141 0.0026

Uranus 46578-12-03 06:29 G 18733661.64 18733661.77 18733661.90 0.0141 0.0005

Uranus 46579-03-01 09:50 G 18733749.78 18733749.91 18733750.04 0.0141 0.0016

Uranus 46579-05-28 12:58 G 18733837.92 18733838.04 18733838.17 0.0141 0.0037

Neptune 46579-08-22 17:02 G 18733924.17 18733924.21 18733924.25 0.0089 0.0084

Uranus 46579-08-24 16:19 G 18733926.06 18733926.18 18733926.30 0.0141 0.0058

Neptune 46579-11-18 18:00 G 18734012.20 18734012.25 18734012.33 0.0089 0.0077

Uranus 46579-11-20 19:41 G 18734014.21 18734014.32 18734014.43 0.0141 0.0079

Neptune 46580-02-14 19:26 G 18734100.23 18734100.31 18734100.39 0.0089 0.0069

Uranus 46580-02-16 23:02 G 18734102.37 18734102.46 18734102.55 0.0141 0.0100

Neptune 46580-05-12 20:38 G 18734188.27 18734188.36 18734188.46 0.0089 0.0062

Uranus 46580-05-15 02:24 G 18734190.53 18734190.60 18734190.66 0.0141 0.0122

Neptune 46580-08-08 21:50 G 18734276.32 18734276.41 18734276.52 0.0089 0.0054

Neptune 46580-11-04 23:17 G 18734364.36 18734364.47 18734364.58 0.0089 0.0046

Neptune 46581-02-01 00:29 G 18734452.41 18734452.52 18734452.64 0.0089 0.0039

Neptune 46581-04-30 01:41 G 18734540.46 18734540.57 18734540.70 0.0089 0.0031

Jupiter 46581-07-25 17:31 G 18734627.18 18734627.23 18734627.28 0.0519 0.0473

Mars 46581-07-25 21:07 G 18734627.27 18734627.38 18734627.49 0.1908 0.0370 *

Neptune 46581-07-27 03:07 G 18734628.50 18734628.63 18734628.76 0.0089 0.0023

Earth 46581-10-22 07:26 G 18734715.80 18734715.81 18734715.81 0.2655 0.2646

Moon 46581-10-22 07:41 G 18734715.82 18734715.82 18734715.82 0.2661 0.2651

Jupiter 46581-10-22 21:36 G 18734716.27 18734716.40 18734716.52 0.0517 0.0125

Neptune 46581-10-23 04:19 G 18734716.56 18734716.68 18734716.81 0.0089 0.0016

Neptune 46582-01-19 05:46 G 18734804.61 18734804.74 18734804.87 0.0089 0.0008

Neptune 46582-04-17 06:58 G 18734892.66 18734892.79 18734892.92 0.0089 0.0001

Neptune 46582-07-14 08:10 G 18734980.71 18734980.84 18734980.97 0.0089 0.0008

Neptune 46582-10-10 09:22 G 18735068.77 18735068.89 18735069.02 0.0089 0.0016

Neptune 46583-01-06 10:48 G 18735156.82 18735156.95 18735157.07 0.0089 0.0023

Neptune 46583-04-04 11:46 G 18735244.88 18735244.99 18735245.12 0.0089 0.0031

Neptune 46583-07-01 13:12 G 18735332.93 18735333.05 18735333.17 0.0089 0.0038

Neptune 46583-09-27 14:24 G 18735420.99 18735421.10 18735421.22 0.0089 0.0046

Neptune 46583-12-24 15:36 G 18735509.05 18735509.15 18735509.26 0.0089 0.0054

Neptune 46584-03-21 17:02 G 18735597.12 18735597.21 18735597.30 0.0089 0.0061

Venus 46584-03-22 22:34 G 18735598.36 18735598.44 18735598.52 0.3690 0.2106

Mars 46584-05-01 07:55 G 18735637.66 18735637.83 18735638.00 0.1621 0.0240

Neptune 46584-06-17 18:00 G 18735685.18 18735685.25 18735685.34 0.0089 0.0069

Neptune 46584-09-13 19:26 G 18735773.25 18735773.31 18735773.38 0.0089 0.0076

Neptune 46584-12-10 20:38 G 18735861.33 18735861.36 18735861.41 0.0089 0.0084

Jupiter 46587-12-13 14:53 G 18736958.94 18736959.12 18736959.31 0.0509 0.0111

Moon 46588-10-15 08:24 G 18737265.75 18737265.85 18737265.95 0.2658 0.0769

Earth 46588-10-15 09:07 G 18737265.77 18737265.88 18737265.98 0.2657 0.0737 *

Venus 46589-10-06 13:41 G 18737621.97 18737622.07 18737622.17 0.3689 0.0053

Mars 46590-12-16 05:46 G 18738057.70 18738057.74 18738057.78 0.1903 0.1756

Saturn 46592-10-07 01:41 G 18738718.40 18738718.57 18738718.76 0.0264 0.0092

Saturn 46593-01-03 23:46 G 18738807.31 18738807.49 18738807.67 0.0264 0.0093

Jupiter 46593-08-11 02:10 G 18739026.47 18739026.59 18739026.72 0.0517 0.0027

Mars 46593-09-21 08:53 G 18739067.76 18739067.87 18739067.97 0.1625 0.1247

Venus 46595-04-22 04:48 G 18739645.62 18739645.70 18739645.78 0.3689 0.2215

Earth 46598-04-19 04:48 G 18740738.54 18740738.70 18740738.86 0.2675 0.0468

Moon 46598-04-19 06:14 G 18740738.60 18740738.76 18740738.92 0.2679 0.0251 *

Jupiter 46599-10-01 11:02 G 18741268.77 18741268.96 18741269.14 0.0508 0.0109

Moon 46601-10-19 01:26 G 18742016.46 18742016.56 18742016.67 0.2660 0.0393

Earth 46601-10-19 02:10 G 18742016.48 18742016.59 18742016.69 0.2656 0.0481 *

Jupiter 46605-05-31 07:26 G 18743336.69 18743336.81 18743336.93 0.0518 0.0164

Jupiter 46605-08-28 11:02 G 18743425.90 18743425.96 18743426.03 0.0516 0.0428

Saturn 46606-05-18 09:22 G 18743688.79 18743688.89 18743689.00 0.0299 0.0165

Saturn 46606-08-14 21:22 G 18743777.26 18743777.39 18743777.52 0.0298 0.0012

Saturn 46606-11-11 09:22 G 18743865.79 18743865.89 18743865.99 0.0297 0.0183

Earth 46611-04-23 14:53 G 18745490.09 18745490.12 18745490.14 0.2676 0.2637

Jupiter 46611-07-21 05:46 G 18745578.60 18745578.74 18745578.88 0.0508 0.0346

Mars 46611-09-04 12:29 G 18745623.93 18745624.02 18745624.11 0.1913 0.1200

Moon 46614-10-21 18:58 G 18746767.21 18746767.29 18746767.38 0.2663 0.1698

Earth 46614-10-21 19:12 G 18746767.21 18746767.30 18746767.38 0.2656 0.1685 *

Jupiter 46617-03-19 12:29 G 18747646.92 18747647.02 18747647.12 0.0518 0.0303

Jupiter 46617-06-16 16:19 G 18747736.08 18747736.18 18747736.28 0.0516 0.0291

Uranus 46617-10-26 17:02 G 18747868.19 18747868.21 18747868.22 0.0138 0.0137

Uranus 46618-01-23 00:43 G 18747956.42 18747956.53 18747956.66 0.0138 0.0108

Uranus 46618-04-21 08:53 G 18748044.71 18748044.87 18748045.03 0.0138 0.0078

Uranus 46618-07-18 16:48 G 18748133.02 18748133.20 18748133.39 0.0138 0.0048

Uranus 46618-10-15 00:43 G 18748221.34 18748221.53 18748221.73 0.0137 0.0019

Uranus 46619-01-11 08:38 G 18748309.67 18748309.86 18748310.06 0.0137 0.0012

Uranus 46619-04-09 16:34 G 18748398.01 18748398.19 18748398.38 0.0137 0.0040

Uranus 46619-07-07 00:29 G 18748486.36 18748486.52 18748486.69 0.0137 0.0070

Uranus 46619-10-03 08:10 G 18748574.72 18748574.84 18748574.99 0.0137 0.0099

Uranus 46619-12-30 15:50 G 18748663.11 18748663.16 18748663.25 0.0137 0.0128

Mars 46621-01-24 21:07 G 18749054.27 18749054.38 18749054.49 0.1908 0.0194

Moon 46621-10-14 20:10 G 18749317.26 18749317.34 18749317.43 0.2653 0.1717

Earth 46621-10-14 20:38 G 18749317.28 18749317.36 18749317.44 0.2658 0.1715 *

Saturn 46622-02-24 23:31 G 18749450.33 18749450.48 18749450.65 0.0263 0.0152

Saturn 46622-05-24 21:36 G 18749539.21 18749539.40 18749539.59 0.0264 0.0032

Saturn 46622-08-21 19:26 G 18749628.21 18749628.31 18749628.42 0.0264 0.0217

Jupiter 46623-08-07 17:17 G 18749979.08 18749979.22 18749979.36 0.0510 0.0336

Mars 46623-11-01 08:38 G 18750064.70 18750064.86 18750065.03 0.1621 0.0475

Venus 46626-12-26 07:55 G 18751215.82 18751215.83 18751215.84 0.3681 0.3669

Jupiter 46629-01-05 17:02 G 18751957.16 18751957.21 18751957.27 0.0518 0.0453

Jupiter 46629-04-04 21:07 G 18752046.26 18752046.38 18752046.50 0.0516 0.0144

Mars 46630-06-17 05:46 G 18752484.68 18752484.74 18752484.80 0.1904 0.1599

Mars 46633-03-23 09:22 G 18753494.76 18753494.89 18753495.03 0.1625 0.1021

Moon 46634-10-17 13:12 G 18754067.94 18754068.05 18754068.15 0.2658 0.0651

Earth 46634-10-17 13:55 G 18754067.97 18754068.08 18754068.18 0.2657 0.0507 *

Venus 46635-04-15 04:48 G 18754247.67 18754247.70 18754247.73 0.3690 0.3471

Jupiter 46635-05-26 13:55 G 18754288.90 18754289.08 18754289.26 0.0509 0.0126

Saturn 46635-10-05 09:50 G 18754420.84 18754420.91 18754420.99 0.0300 0.0240

Saturn 46636-01-01 21:50 G 18754509.29 18754509.41 18754509.54 0.0299 0.0064

Saturn 46636-03-30 09:50 G 18754597.79 18754597.91 18754598.03 0.0298 0.0111

Saturn 46636-06-26 21:36 G 18754686.37 18754686.40 18754686.44 0.0297 0.0283

Venus 46640-10-28 19:55 G 18756271.23 18756271.33 18756271.42 0.3689 0.1319

Jupiter 46641-01-22 01:41 G 18756356.45 18756356.57 18756356.70 0.0517 0.0011

Earth 46644-04-20 11:46 G 18757540.83 18757540.99 18757541.16 0.2675 0.0090

Moon 46644-04-20 13:26 G 18757540.90 18757541.06 18757541.22 0.2679 0.0216 *

Venus 46646-05-14 11:02 G 18758294.86 18758294.96 18758295.05 0.3689 0.0849

Jupiter 46647-03-14 10:19 G 18758598.74 18758598.93 18758599.11 0.0508 0.0090

Moon 46647-10-20 06:29 G 18758818.66 18758818.77 18758818.87 0.2661 0.0705

Earth 46647-10-20 06:43 G 18758818.68 18758818.78 18758818.89 0.2656 0.0719 *

Mars 46651-03-05 12:29 G 18760050.94 18760051.02 18760051.09 0.1912 0.1368

Saturn 46651-07-14 21:22 G 18760182.28 18760182.39 18760182.50 0.0263 0.0215

Saturn 46651-10-11 18:58 G 18760271.10 18760271.29 18760271.49 0.0264 0.0033

Venus 46651-11-28 02:10 G 18760318.53 18760318.59 18760318.64 0.3689 0.3016

Saturn 46652-01-08 16:48 G 18760360.05 18760360.20 18760360.36 0.0264 0.0153

Jupiter 46652-11-10 06:29 G 18760666.65 18760666.77 18760666.89 0.0518 0.0154

Jupiter 46653-02-07 10:05 G 18760755.86 18760755.92 18760755.99 0.0516 0.0438

Jupiter 46658-12-31 06:14 G 18762908.61 18762908.76 18762908.91 0.0508 0.0308

Mars 46660-07-25 20:53 G 18763481.26 18763481.37 18763481.48 0.1908 0.0057

Moon 46660-10-21 23:46 G 18763569.42 18763569.49 18763569.57 0.2662 0.1910

Earth 46660-10-21 23:46 G 18763569.42 18763569.49 18763569.57 0.2655 0.1917 *

Uranus 46661-07-13 18:14 G 18763834.21 18763834.26 18763834.33 0.0140 0.0123

Uranus 46661-10-09 21:50 G 18763922.32 18763922.41 18763922.49 0.0140 0.0102

Uranus 46662-01-06 00:58 G 18764010.44 18764010.54 18764010.65 0.0140 0.0081

Uranus 46662-04-04 04:05 G 18764098.56 18764098.67 18764098.79 0.0141 0.0061

Uranus 46662-07-01 07:26 G 18764186.69 18764186.81 18764186.94 0.0141 0.0040

Uranus 46662-09-27 10:48 G 18764274.82 18764274.95 18764275.08 0.0141 0.0019

Uranus 46662-12-24 14:10 G 18764362.96 18764363.09 18764363.22 0.0141 0.0002

Uranus 46663-03-22 17:17 G 18764451.10 18764451.22 18764451.35 0.0141 0.0024

Mars 46663-05-02 09:22 G 18764491.74 18764491.89 18764492.05 0.1621 0.0701

Uranus 46663-06-18 20:38 G 18764539.24 18764539.36 18764539.49 0.0141 0.0045

Uranus 46663-09-15 00:00 G 18764627.39 18764627.50 18764627.62 0.0141 0.0066

Uranus 46663-12-12 03:22 G 18764715.54 18764715.64 18764715.74 0.0141 0.0087

Neptune 46664-01-22 18:58 G 18764757.22 18764757.29 18764757.38 0.0088 0.0081

Uranus 46664-03-09 06:29 G 18764803.70 18764803.77 18764803.86 0.0141 0.0108

Neptune 46664-04-19 22:34 G 18764845.33 18764845.44 18764845.58 0.0089 0.0070

Uranus 46664-06-05 09:50 G 18764891.87 18764891.91 18764891.97 0.0141 0.0130

Neptune 46664-07-17 02:10 G 18764933.46 18764933.59 18764933.76 0.0089 0.0059

Jupiter 46664-08-29 11:31 G 18764976.88 18764976.98 18764977.08 0.0518 0.0294

Neptune 46664-10-13 06:14 G 18765021.60 18765021.76 18765021.93 0.0089 0.0047

Jupiter 46664-11-26 15:22 G 18765066.04 18765066.14 18765066.24 0.0516 0.0301

Neptune 46665-01-09 09:50 G 18765109.74 18765109.91 18765110.10 0.0089 0.0036

Neptune 46665-04-07 13:55 G 18765197.89 18765198.08 18765198.27 0.0089 0.0024

Saturn 46665-05-20 23:17 G 18765241.35 18765241.47 18765241.58 0.0299 0.0126

Neptune 46665-07-04 17:31 G 18765286.04 18765286.23 18765286.43 0.0089 0.0013

Saturn 46665-08-17 11:17 G 18765329.84 18765329.97 18765330.09 0.0298 0.0050

Neptune 46665-09-30 21:22 G 18765374.19 18765374.39 18765374.59 0.0089 0.0001

Saturn 46665-11-13 23:02 G 18765418.38 18765418.46 18765418.55 0.0297 0.0222

Neptune 46665-12-28 01:12 G 18765462.35 18765462.55 18765462.75 0.0089 0.0011

Neptune 46666-03-26 04:34 G 18765550.51 18765550.69 18765550.90 0.0089 0.0023

Neptune 46666-06-22 08:24 G 18765638.68 18765638.85 18765639.04 0.0089 0.0034

Neptune 46666-09-18 12:14 G 18765726.85 18765727.01 18765727.19 0.0089 0.0045

Neptune 46666-12-15 15:50 G 18765815.02 18765815.16 18765815.33 0.0089 0.0057

Neptune 46667-03-13 19:41 G 18765903.21 18765903.32 18765903.46 0.0089 0.0068

Neptune 46667-06-09 23:17 G 18765991.40 18765991.47 18765991.57 0.0089 0.0080

Moon 46667-10-16 00:58 G 18766119.45 18766119.54 18766119.62 0.2655 0.1587

Earth 46667-10-16 01:26 G 18766119.47 18766119.56 18766119.65 0.2658 0.1472 *

Mars 46669-12-16 05:46 G 18766911.67 18766911.74 18766911.81 0.1904 0.1419

Jupiter 46671-01-17 15:36 G 18767309.02 18767309.15 18767309.29 0.0510 0.0345

Mars 46672-09-21 10:19 G 18767921.78 18767921.93 18767922.08 0.1625 0.0782

Jupiter 46676-06-17 16:34 G 18769287.13 18769287.19 18769287.26 0.0519 0.0434

Jupiter 46676-09-14 20:38 G 18769376.24 18769376.36 18769376.47 0.0516 0.0164

Earth 46677-04-18 08:53 G 18769591.81 18769591.87 18769591.94 0.2674 0.2433

Moon 46677-04-18 09:50 G 18769591.84 18769591.91 18769591.97 0.2680 0.2452 *

Moon 46680-10-17 17:46 G 18770870.14 18770870.24 18770870.35 0.2658 0.0297

Earth 46680-10-17 18:29 G 18770870.16 18770870.27 18770870.38 0.2657 0.0261 *

Saturn 46681-02-27 17:02 G 18771003.03 18771003.21 18771003.40 0.0263 0.0091

Saturn 46681-05-27 14:53 G 18771091.94 18771092.12 18771092.31 0.0264 0.0093

Jupiter 46682-11-05 12:14 G 18771618.83 18771619.01 18771619.19 0.0509 0.0131

Venus 46683-08-02 10:48 G 18771888.79 18771888.95 18771889.11 0.3681 0.0932

Jupiter 46688-07-04 01:12 G 18773686.42 18773686.55 18773686.68 0.0517 0.0014

Earth 46690-04-21 18:43 G 18774343.13 18774343.28 18774343.44 0.2675 0.0647

Moon 46690-04-21 20:38 G 18774343.20 18774343.36 18774343.51 0.2679 0.0946 *

Mars 46690-09-03 12:14 G 18774477.95 18774478.01 18774478.08 0.1912 0.1522

Venus 46691-11-20 02:10 G 18774920.52 18774920.59 18774920.65 0.3690 0.2689

Moon 46693-10-20 11:17 G 18775620.87 18775620.97 18775621.07 0.2662 0.0862

Earth 46693-10-20 11:31 G 18775620.88 18775620.98 18775621.08 0.2656 0.0952 *

Jupiter 46694-08-24 08:53 G 18775928.69 18775928.87 18775929.06 0.0509 0.0079

Saturn 46694-10-07 23:46 G 18775973.40 18775973.49 18775973.59 0.0300 0.0198

Saturn 46695-01-04 12:00 G 18776061.87 18776062.00 18776062.13 0.0299 0.0023

Saturn 46695-04-02 23:46 G 18776150.39 18776150.49 18776150.61 0.0298 0.0153

Venus 46697-06-04 17:17 G 18776944.12 18776944.22 18776944.31 0.3689 0.0550

Pluto 46698-08-11 05:02 G 18777376.65 18777376.71 18777376.79 0.0068 0.0058

Pluto 46698-11-07 05:31 G 18777464.65 18777464.73 18777464.84 0.0068 0.0048

Pluto 46699-02-03 06:14 G 18777552.65 18777552.76 18777552.88 0.0068 0.0037

Pluto 46699-05-02 06:43 G 18777640.67 18777640.78 18777640.91 0.0068 0.0027

Pluto 46699-07-29 07:26 G 18777728.68 18777728.81 18777728.94 0.0068 0.0016

Pluto 46699-10-25 07:55 G 18777816.70 18777816.83 18777816.97 0.0068 0.0006

Pluto 46700-01-21 08:38 G 18777904.72 18777904.86 18777904.99 0.0068 0.0005

Mars 46700-01-24 20:53 G 18777908.26 18777908.37 18777908.49 0.1908 0.0138

Pluto 46700-04-19 09:07 G 18777992.75 18777992.88 18777993.01 0.0069 0.0016

Jupiter 46700-04-23 05:46 G 18777996.62 18777996.74 18777996.87 0.0517 0.0136

Pluto 46700-07-16 09:36 G 18778080.78 18778080.90 18778081.03 0.0069 0.0026

Jupiter 46700-07-21 09:36 G 18778085.84 18778085.90 18778085.96 0.0515 0.0455

Pluto 46700-10-12 10:19 G 18778168.82 18778168.93 18778169.04 0.0069 0.0037

Moon 46700-10-14 12:43 G 18778171.00 18778171.03 18778171.07 0.2652 0.2490

Earth 46700-10-14 12:58 G 18778171.01 18778171.04 18778171.08 0.2659 0.2460 *

Pluto 46701-01-08 10:34 G 18778256.86 18778256.94 18778257.05 0.0069 0.0048

Pluto 46701-04-06 11:02 G 18778344.91 18778344.96 18778345.04 0.0069 0.0059

Uranus 46701-11-17 00:29 G 18778569.46 18778569.52 18778569.60 0.0138 0.0128

Uranus 46702-02-13 08:38 G 18778657.73 18778657.86 18778658.00 0.0138 0.0098

Uranus 46702-05-12 16:34 G 18778746.03 18778746.19 18778746.37 0.0138 0.0068

Uranus 46702-08-09 00:43 G 18778834.34 18778834.53 18778834.72 0.0138 0.0039

Mars 46702-11-01 10:05 G 18778918.78 18778918.92 18778919.06 0.1621 0.0927

Uranus 46702-11-05 08:38 G 18778922.67 18778922.86 18778923.06 0.0137 0.0009

Venus 46702-12-20 08:24 G 18778967.76 18778967.85 18778967.94 0.3689 0.1643

Uranus 46703-02-01 16:34 G 18779011.00 18779011.19 18779011.39 0.0137 0.0021

Uranus 46703-05-01 00:14 G 18779099.34 18779099.51 18779099.71 0.0137 0.0051

Uranus 46703-07-28 08:10 G 18779187.69 18779187.84 18779188.01 0.0137 0.0079

Uranus 46703-10-24 16:05 G 18779276.06 18779276.17 18779276.30 0.0137 0.0108

Jupiter 46706-06-13 05:17 G 18780238.57 18780238.72 18780238.88 0.0508 0.0293

Earth 46706-10-24 04:34 G 18780371.63 18780371.69 18780371.75 0.2655 0.2152

Moon 46706-10-24 04:34 G 18780371.64 18780371.69 18780371.75 0.2662 0.2210 *

Mars 46709-06-17 05:31 G 18781338.65 18781338.73 18781338.82 0.1903 0.1276

Saturn 46710-07-18 14:53 G 18781734.96 18781735.12 18781735.28 0.0263 0.0153

Saturn 46710-10-15 12:43 G 18781823.84 18781824.03 18781824.22 0.0264 0.0031

Saturn 46711-01-12 10:19 G 18781912.83 18781912.93 18781913.05 0.0265 0.0217

Jupiter 46712-02-10 10:34 G 18782306.83 18782306.94 18782307.04 0.0518 0.0287

Mars 46712-03-23 10:48 G 18782348.79 18782348.95 18782349.11 0.1625 0.0567

Jupiter 46712-05-09 14:10 G 18782396.00 18782396.09 18782396.20 0.0516 0.0309

Moon 46713-10-17 05:31 G 18782921.64 18782921.73 18782921.83 0.2656 0.1296

Earth 46713-10-17 06:14 G 18782921.66 18782921.76 18782921.85 0.2658 0.1237 *

Jupiter 46718-06-30 16:05 G 18784639.05 18784639.17 18784639.30 0.0509 0.0379

Earth 46723-04-20 16:05 G 18786394.05 18786394.17 18786394.28 0.2674 0.1882

Moon 46723-04-20 17:02 G 18786394.09 18786394.21 18786394.34 0.2679 0.1646 *

Jupiter 46723-11-29 15:36 G 18786617.08 18786617.15 18786617.22 0.0519 0.0427

Saturn 46724-02-26 01:26 G 18786705.50 18786705.56 18786705.62 0.0299 0.0257

Jupiter 46724-02-26 19:26 G 18786706.19 18786706.31 18786706.43 0.0517 0.0170

Saturn 46724-05-24 13:26 G 18786793.94 18786794.06 18786794.19 0.0299 0.0081

Saturn 46724-08-21 01:26 G 18786882.44 18786882.56 18786882.68 0.0298 0.0094

Saturn 46724-11-17 13:26 G 18786971.00 18786971.06 18786971.11 0.0297 0.0266

Moon 46726-10-19 22:34 G 18787672.34 18787672.44 18787672.55 0.2659 0.0171

Earth 46726-10-19 23:17 G 18787672.36 18787672.47 18787672.58 0.2657 0.0043 *

Mars 46730-03-05 12:14 G 18788904.96 18788905.01 18788905.06 0.1913 0.1696

Jupiter 46730-04-18 10:34 G 18788948.76 18788948.94 18788949.12 0.0509 0.0137

Jupiter 46735-12-16 00:43 G 18791016.40 18791016.53 18791016.65 0.0517 0.0035

Earth 46736-04-23 01:55 G 18791145.43 18791145.58 18791145.72 0.2675 0.1203

Moon 46736-04-23 03:36 G 18791145.51 18791145.65 18791145.79 0.2678 0.1306 *

Mars 46739-07-26 20:53 G 18792335.26 18792335.37 18792335.48 0.1908 0.0289

Moon 46739-10-22 16:05 G 18792423.07 18792423.17 18792423.26 0.2663 0.1222

Earth 46739-10-22 16:19 G 18792423.08 18792423.18 18792423.27 0.2656 0.1189 *

Saturn 46739-12-05 13:26 G 18792466.95 18792467.06 18792467.18 0.0263 0.0207

Saturn 46740-03-03 11:17 G 18792555.78 18792555.97 18792556.17 0.0263 0.0024

Venus 46740-03-09 13:26 G 18792561.92 18792562.06 18792562.20 0.3681 0.1747

Saturn 46740-05-31 09:07 G 18792644.73 18792644.88 18792645.04 0.0264 0.0161

Jupiter 46742-02-04 06:58 G 18793258.60 18793258.79 18793258.98 0.0509 0.0078

Mars 46742-05-02 10:48 G 18793345.83 18793345.95 18793346.07 0.1621 0.1153

Neptune 46744-05-20 16:34 G 18794095.14 18794095.19 18794095.23 0.0089 0.0082

Neptune 46744-08-16 17:31 G 18794183.17 18794183.23 18794183.31 0.0089 0.0075

Neptune 46744-11-12 18:58 G 18794271.21 18794271.29 18794271.38 0.0089 0.0067

Neptune 46745-02-08 20:10 G 18794359.25 18794359.34 18794359.44 0.0089 0.0060

Neptune 46745-05-07 21:22 G 18794447.29 18794447.39 18794447.50 0.0089 0.0052

Uranus 46745-05-07 22:34 G 18794447.42 18794447.44 18794447.47 0.0140 0.0137 *

Neptune 46745-08-03 22:48 G 18794535.34 18794535.45 18794535.56 0.0089 0.0044

Uranus 46745-08-04 01:41 G 18794535.51 18794535.57 18794535.65 0.0140 0.0117 *

Neptune 46745-10-31 00:00 G 18794623.39 18794623.50 18794623.62 0.0089 0.0037

Uranus 46745-10-31 05:02 G 18794623.62 18794623.71 18794623.81 0.0140 0.0096 *

Neptune 46746-01-27 01:12 G 18794711.43 18794711.55 18794711.68 0.0089 0.0029

Uranus 46746-01-27 08:24 G 18794711.74 18794711.85 18794711.96 0.0141 0.0075

Neptune 46746-04-25 02:38 G 18794799.48 18794799.61 18794799.74 0.0089 0.0021

Uranus 46746-04-25 11:46 G 18794799.87 18794799.99 18794800.11 0.0141 0.0054

Neptune 46746-07-22 03:50 G 18794887.53 18794887.66 18794887.79 0.0089 0.0014

Uranus 46746-07-22 14:53 G 18794888.00 18794888.12 18794888.25 0.0141 0.0034

Moon 46746-10-15 17:31 G 18794973.18 18794973.23 18794973.28 0.2653 0.2260

Earth 46746-10-15 17:46 G 18794973.18 18794973.24 18794973.30 0.2659 0.2217 *

Neptune 46746-10-18 05:02 G 18794975.58 18794975.71 18794975.85 0.0089 0.0007

Uranus 46746-10-18 18:14 G 18794976.13 18794976.26 18794976.39 0.0141 0.0013

Neptune 46747-01-14 06:29 G 18795063.64 18795063.77 18795063.90 0.0089 0.0002

Uranus 46747-01-14 21:36 G 18795064.27 18795064.40 18795064.53 0.0141 0.0009

Neptune 46747-04-12 07:41 G 18795151.69 18795151.82 18795151.95 0.0089 0.0009

Uranus 46747-04-13 00:58 G 18795152.41 18795152.54 18795152.67 0.0141 0.0030

Neptune 46747-07-09 08:53 G 18795239.75 18795239.87 18795240.00 0.0089 0.0017

Uranus 46747-07-10 04:05 G 18795240.56 18795240.67 18795240.80 0.0141 0.0051

Jupiter 46747-10-04 05:17 G 18795326.59 18795326.72 18795326.84 0.0517 0.0120

Neptune 46747-10-05 10:05 G 18795327.80 18795327.92 18795328.05 0.0089 0.0025

Uranus 46747-10-06 07:26 G 18795328.70 18795328.81 18795328.93 0.0141 0.0072

Jupiter 46748-01-01 08:53 G 18795415.82 18795415.87 18795415.92 0.0515 0.0470

Neptune 46748-01-01 11:17 G 18795415.86 18795415.97 18795416.10 0.0089 0.0033 *

Uranus 46748-01-02 10:48 G 18795416.86 18795416.95 18795417.05 0.0141 0.0093

Neptune 46748-03-29 12:43 G 18795503.92 18795504.03 18795504.15 0.0089 0.0040

Uranus 46748-03-30 14:10 G 18795505.02 18795505.09 18795505.17 0.0141 0.0115

Neptune 46748-06-25 13:55 G 18795591.97 18795592.08 18795592.19 0.0089 0.0048

Uranus 46748-06-26 17:31 G 18795593.20 18795593.23 18795593.27 0.0141 0.0136

Venus 46748-06-26 23:17 G 18795593.39 18795593.47 18795593.56 0.3690 0.1901

Neptune 46748-09-21 15:07 G 18795680.03 18795680.13 18795680.24 0.0089 0.0055

Mars 46748-12-16 05:31 G 18795765.64 18795765.73 18795765.82 0.1904 0.1107

Neptune 46748-12-18 16:19 G 18795768.10 18795768.18 18795768.28 0.0089 0.0063

Neptune 46749-03-16 17:31 G 18795856.16 18795856.23 18795856.32 0.0089 0.0071

Neptune 46749-06-12 18:58 G 18795944.23 18795944.29 18795944.35 0.0089 0.0078

Neptune 46749-09-08 20:10 G 18796032.32 18796032.34 18796032.38 0.0089 0.0086

Mars 46751-09-22 11:46 G 18796775.82 18796775.99 18796776.15 0.1625 0.0335

Earth 46752-10-24 09:22 G 18797173.84 18797173.89 18797173.93 0.2655 0.2387

Moon 46752-10-24 09:36 G 18797173.85 18797173.90 18797173.94 0.2661 0.2381 *

Saturn 46753-10-11 14:24 G 18797525.99 18797526.10 18797526.21 0.0299 0.0149

Jupiter 46753-11-23 03:36 G 18797568.50 18797568.65 18797568.81 0.0508 0.0287

Saturn 46754-01-08 02:24 G 18797614.47 18797614.60 18797614.73 0.0299 0.0027

Venus 46754-01-10 14:24 G 18797617.00 18797617.10 18797617.20 0.3689 0.0277

Saturn 46754-04-06 14:24 G 18797703.01 18797703.10 18797703.19 0.0298 0.0200

Jupiter 46759-07-23 09:50 G 18799636.80 18799636.91 18799637.02 0.0518 0.0270

Venus 46759-07-27 05:31 G 18799640.66 18799640.73 18799640.81 0.3689 0.2431

Moon 46759-10-18 10:19 G 18799723.83 18799723.93 18799724.02 0.2656 0.1105

Earth 46759-10-18 10:48 G 18799723.86 18799723.95 18799724.05 0.2658 0.1003 *

Jupiter 46759-10-20 13:41 G 18799725.97 18799726.07 18799726.16 0.0516 0.0324

Jupiter 46765-09-11 00:00 G 18801878.48 18801878.50 18801878.53 0.0508 0.0501

Jupiter 46765-12-10 14:38 G 18801969.00 18801969.11 18801969.24 0.0510 0.0391

Earth 46769-04-20 23:02 G 18803196.32 18803196.46 18803196.60 0.2674 0.1314

Moon 46769-04-21 00:29 G 18803196.38 18803196.52 18803196.66 0.2679 0.1250 *

Saturn 46769-07-21 09:22 G 18803287.71 18803287.89 18803288.08 0.0263 0.0083

Mars 46769-09-03 12:14 G 18803331.98 18803332.01 18803332.03 0.1912 0.1848

Saturn 46769-10-18 07:12 G 18803376.62 18803376.80 18803376.98 0.0264 0.0101

Jupiter 46771-05-11 14:10 G 18803947.03 18803947.09 18803947.17 0.0519 0.0424

Jupiter 46771-08-08 18:14 G 18804036.14 18804036.26 18804036.38 0.0517 0.0174

Moon 46772-10-20 03:22 G 18804474.54 18804474.64 18804474.75 0.2660 0.0191

Earth 46772-10-20 03:50 G 18804474.56 18804474.66 18804474.77 0.2657 0.0243 *

Jupiter 46777-09-28 10:34 G 18806278.76 18806278.94 18806279.12 0.0509 0.0167

Mars 46779-01-24 20:53 G 18806762.26 18806762.37 18806762.48 0.1908 0.0443

Mars 46781-10-31 11:31 G 18807772.90 18807772.98 18807773.07 0.1621 0.1388

Earth 46782-04-24 08:53 G 18807947.75 18807947.87 18807948.00 0.2675 0.1769

Moon 46782-04-24 10:48 G 18807947.85 18807947.95 18807948.05 0.2677 0.2097 *

Saturn 46783-02-28 16:19 G 18808258.09 18808258.18 18808258.27 0.0299 0.0203

Jupiter 46783-05-27 23:17 G 18808346.35 18808346.47 18808346.60 0.0517 0.0034

Saturn 46783-05-28 04:19 G 18808346.55 18808346.68 18808346.81 0.0298 0.0027 *

Saturn 46783-08-24 16:19 G 18808435.07 18808435.18 18808435.29 0.0298 0.0147

Pluto 46785-03-07 09:50 G 18808995.82 18808995.91 18808996.02 0.0076 0.0064

Pluto 46785-06-03 12:14 G 18809083.87 18809084.01 18809084.18 0.0076 0.0044

Pluto 46785-08-30 14:38 G 18809171.94 18809172.11 18809172.31 0.0075 0.0024

Moon 46785-10-22 20:53 G 18809225.28 18809225.37 18809225.46 0.2663 0.1345

Earth 46785-10-22 21:07 G 18809225.29 18809225.38 18809225.47 0.2656 0.1427 *

Pluto 46785-11-26 17:31 G 18809260.04 18809260.23 18809260.42 0.0075 0.0003

Uranus 46785-12-07 07:55 G 18809270.75 18809270.83 18809270.94 0.0138 0.0120

Pluto 46786-02-22 19:55 G 18809348.14 18809348.33 18809348.52 0.0075 0.0018

Uranus 46786-03-05 16:05 G 18809359.03 18809359.17 18809359.32 0.0138 0.0090

Pluto 46786-05-21 22:05 G 18809436.27 18809436.42 18809436.60 0.0075 0.0038

Uranus 46786-06-02 00:14 G 18809447.33 18809447.51 18809447.69 0.0138 0.0060

Pluto 46786-08-18 00:29 G 18809524.41 18809524.52 18809524.65 0.0075 0.0058

Uranus 46786-08-29 08:10 G 18809535.65 18809535.84 18809536.03 0.0137 0.0030

Uranus 46786-11-25 16:05 G 18809623.97 18809624.17 18809624.37 0.0137 0.0001

Uranus 46787-02-22 00:00 G 18809712.31 18809712.50 18809712.69 0.0137 0.0029

Uranus 46787-05-21 07:41 G 18809800.65 18809800.82 18809801.01 0.0137 0.0059

Uranus 46787-08-17 15:36 G 18809889.01 18809889.15 18809889.31 0.0137 0.0088

Uranus 46787-11-13 23:31 G 18809977.39 18809977.48 18809977.59 0.0137 0.0116

Mars 46788-06-16 05:31 G 18810192.63 18810192.73 18810192.83 0.1904 0.0937

Jupiter 46789-07-17 05:02 G 18810588.52 18810588.71 18810588.90 0.0508 0.0076

Mars 46791-03-23 12:29 G 18811202.85 18811203.02 18811203.19 0.1625 0.0099

Moon 46792-10-15 22:05 G 18811775.35 18811775.42 18811775.49 0.2654 0.2001

Earth 46792-10-15 22:34 G 18811775.37 18811775.44 18811775.51 0.2659 0.1980 *

Jupiter 46795-03-16 04:19 G 18812656.56 18812656.68 18812656.80 0.0518 0.0108

Jupiter 46795-06-13 08:10 G 18812745.80 18812745.84 18812745.88 0.0516 0.0484

Earth 46798-10-25 13:55 G 18813976.07 18813976.08 18813976.10 0.2655 0.2621

Saturn 46798-12-08 08:38 G 18814019.70 18814019.86 18814020.03 0.0263 0.0133

Saturn 46799-03-07 06:29 G 18814108.58 18814108.77 18814108.96 0.0264 0.0051

Saturn 46799-06-04 04:05 G 18814197.60 18814197.67 18814197.77 0.0264 0.0238

Venus 46799-07-19 05:31 G 18814242.69 18814242.73 18814242.78 0.3690 0.3268

Mars 46800-08-12 13:12 G 18814633.02 18814633.05 18814633.07 0.1628 0.1603

Jupiter 46801-05-05 01:12 G 18814898.40 18814898.55 18814898.71 0.0508 0.0292

Venus 46805-01-31 20:38 G 18816266.26 18816266.36 18816266.46 0.3689 0.1112

Moon 46805-10-18 14:53 G 18816526.02 18816526.12 18816526.23 0.2656 0.0850

Earth 46805-10-18 15:36 G 18816526.05 18816526.15 18816526.25 0.2658 0.0759 *

Jupiter 46807-01-02 08:53 G 18816966.76 18816966.87 18816966.98 0.0518 0.0260

Jupiter 46807-04-01 12:43 G 18817055.93 18817056.03 18817056.12 0.0516 0.0334

Venus 46810-08-17 11:46 G 18818289.89 18818289.99 18818290.09 0.3689 0.1046

Saturn 46812-07-17 17:46 G 18818990.18 18818990.24 18818990.30 0.0300 0.0265

Saturn 46812-10-14 05:46 G 18819078.62 18819078.74 18819078.86 0.0299 0.0088

Saturn 46813-01-10 17:46 G 18819167.12 18819167.24 18819167.36 0.0298 0.0087

Jupiter 46813-02-20 21:50 G 18819208.39 18819208.41 18819208.44 0.0508 0.0501

Saturn 46813-04-09 05:46 G 18819255.68 18819255.74 18819255.80 0.0297 0.0260

Jupiter 46813-05-22 12:43 G 18819298.91 18819299.03 18819299.15 0.0510 0.0391

Earth 46815-04-22 06:00 G 18819998.59 18819998.75 18819998.91 0.2674 0.0769

Moon 46815-04-22 07:26 G 18819998.65 18819998.81 18819998.97 0.2679 0.0527 *

Venus 46816-03-02 02:53 G 18820313.57 18820313.62 18820313.67 0.3689 0.3228

Mars 46818-07-25 20:53 G 18821189.26 18821189.37 18821189.47 0.1908 0.0613

Moon 46818-10-21 08:10 G 18821276.74 18821276.84 18821276.95 0.2662 0.0376

Earth 46818-10-21 08:38 G 18821276.76 18821276.86 18821276.97 0.2657 0.0455 *

Jupiter 46818-10-21 13:26 G 18821276.98 18821277.06 18821277.13 0.0518 0.0411

Jupiter 46819-01-18 17:17 G 18821366.11 18821366.22 18821366.34 0.0516 0.0185

Mars 46821-05-01 12:14 G 18822200.00 18822200.01 18822200.03 0.1621 0.1610

Jupiter 46825-03-10 08:53 G 18823608.69 18823608.87 18823609.05 0.0509 0.0171

Mars 46827-12-16 05:31 G 18824619.62 18824619.73 18824619.83 0.1903 0.0785

Earth 46828-04-24 16:05 G 18824750.09 18824750.17 18824750.25 0.2676 0.2336

Moon 46828-04-24 18:00 G 18824750.19 18824750.25 18824750.31 0.2675 0.2454 *

Saturn 46828-04-26 07:12 G 18824751.67 18824751.80 18824751.94 0.0263 0.0187

Neptune 46828-07-23 13:41 G 18824840.05 18824840.07 18824840.09 0.0088 0.0088

Saturn 46828-07-24 05:17 G 18824840.52 18824840.72 18824840.91 0.0264 0.0005

Neptune 46828-10-19 17:02 G 18824928.13 18824928.21 18824928.33 0.0088 0.0077

Saturn 46828-10-21 02:53 G 18824929.49 18824929.62 18824929.77 0.0264 0.0183

Neptune 46829-01-15 20:38 G 18825016.25 18825016.36 18825016.52 0.0088 0.0066

Neptune 46829-04-14 00:43 G 18825104.38 18825104.53 18825104.70 0.0089 0.0054

Uranus 46829-05-28 05:46 G 18825148.70 18825148.74 18825148.78 0.0140 0.0132

Neptune 46829-07-11 04:19 G 18825192.52 18825192.68 18825192.87 0.0089 0.0043

Uranus 46829-08-24 09:07 G 18825236.80 18825236.88 18825236.96 0.0140 0.0112

Neptune 46829-10-07 08:24 G 18825280.67 18825280.85 18825281.04 0.0089 0.0031

Uranus 46829-11-20 12:14 G 18825324.92 18825325.01 18825325.11 0.0140 0.0091

Neptune 46830-01-03 12:00 G 18825368.82 18825369.00 18825369.20 0.0089 0.0020

Uranus 46830-02-16 15:36 G 18825413.04 18825413.15 18825413.26 0.0141 0.0070

Neptune 46830-04-01 16:05 G 18825456.97 18825457.17 18825457.36 0.0089 0.0008

Uranus 46830-05-15 18:58 G 18825501.17 18825501.29 18825501.41 0.0141 0.0050

Neptune 46830-06-28 19:41 G 18825545.12 18825545.32 18825545.52 0.0089 0.0004

Uranus 46830-08-11 22:05 G 18825589.30 18825589.42 18825589.55 0.0141 0.0029

Mars 46830-09-21 12:58 G 18825629.87 18825630.04 18825630.21 0.1625 0.0129

Neptune 46830-09-24 23:17 G 18825633.28 18825633.47 18825633.68 0.0089 0.0016

Jupiter 46830-11-06 21:50 G 18825676.28 18825676.41 18825676.54 0.0517 0.0033

Uranus 46830-11-08 01:26 G 18825677.43 18825677.56 18825677.69 0.0141 0.0008

Neptune 46830-12-22 03:07 G 18825721.45 18825721.63 18825721.83 0.0089 0.0027

Uranus 46831-02-04 04:48 G 18825765.57 18825765.70 18825765.83 0.0141 0.0013

Neptune 46831-03-20 06:43 G 18825809.61 18825809.78 18825809.97 0.0089 0.0038

Uranus 46831-05-03 08:10 G 18825853.71 18825853.84 18825853.96 0.0141 0.0034

Neptune 46831-06-16 10:34 G 18825897.79 18825897.94 18825898.11 0.0089 0.0050

Uranus 46831-07-30 11:31 G 18825941.86 18825941.98 18825942.10 0.0141 0.0055

Neptune 46831-09-12 14:24 G 18825985.96 18825986.10 18825986.25 0.0089 0.0061

Moon 46831-10-24 01:41 G 18826027.49 18826027.57 18826027.65 0.2662 0.1697

Earth 46831-10-24 01:41 G 18826027.49 18826027.57 18826027.66 0.2656 0.1656 *

Uranus 46831-10-26 14:38 G 18826030.01 18826030.11 18826030.22 0.0141 0.0077

Neptune 46831-12-09 18:00 G 18826074.15 18826074.25 18826074.38 0.0089 0.0073

Uranus 46832-01-22 18:00 G 18826118.16 18826118.25 18826118.35 0.0141 0.0098

Neptune 46832-03-06 21:50 G 18826162.36 18826162.41 18826162.48 0.0089 0.0084

Uranus 46832-04-19 21:07 G 18826206.32 18826206.38 18826206.46 0.0141 0.0120

Uranus 46832-07-17 00:29 G 18826294.52 18826294.52 18826294.55 0.0141 0.0141

Jupiter 46836-12-27 04:34 G 18827918.50 18827918.69 18827918.88 0.0508 0.0053

Moon 46838-10-17 02:38 G 18828577.54 18828577.61 18828577.69 0.2655 0.1863

Earth 46838-10-17 03:22 G 18828577.56 18828577.64 18828577.72 0.2658 0.1740 *

Mars 46840-02-11 13:55 G 18829059.99 18829060.08 18829060.17 0.1629 0.1369

Saturn 46842-03-03 08:10 G 18829810.72 18829810.84 18829810.95 0.0299 0.0137

Saturn 46842-05-30 20:10 G 18829899.21 18829899.34 18829899.46 0.0298 0.0039

Jupiter 46842-08-26 02:53 G 18829986.50 18829986.62 18829986.74 0.0518 0.0110

Saturn 46842-08-27 07:55 G 18829987.75 18829987.83 18829987.92 0.0297 0.0212

Jupiter 46842-11-23 06:29 G 18830075.73 18830075.77 18830075.82 0.0516 0.0483

Venus 46847-11-05 07:12 G 18831883.65 18831883.80 18831883.96 0.3681 0.1134

Jupiter 46848-10-14 23:02 G 18832228.31 18832228.46 18832228.61 0.0508 0.0294

Moon 46851-10-19 19:41 G 18833328.22 18833328.32 18833328.43 0.2657 0.0594

Earth 46851-10-19 20:24 G 18833328.24 18833328.35 18833328.45 0.2657 0.0526 *

Jupiter 46854-06-14 07:41 G 18834296.71 18834296.82 18834296.93 0.0518 0.0254

Jupiter 46854-09-11 11:31 G 18834385.89 18834385.98 18834386.08 0.0516 0.0342

Venus 46856-02-23 02:53 G 18834915.55 18834915.62 18834915.69 0.3690 0.2484

Saturn 46857-09-13 06:58 G 18835483.71 18835483.79 18835483.89 0.0263 0.0232

Saturn 46857-12-11 05:02 G 18835572.52 18835572.71 18835572.90 0.0264 0.0049

Mars 46858-01-23 20:53 G 18835616.26 18835616.37 18835616.47 0.1908 0.0782

Saturn 46858-03-10 02:53 G 18835661.45 18835661.62 18835661.79 0.0264 0.0137

Jupiter 46860-11-01 09:50 G 18836628.79 18836628.91 18836629.04 0.0509 0.0379

Earth 46861-04-22 12:58 G 18836800.88 18836801.04 18836801.21 0.2674 0.0222

Moon 46861-04-22 14:38 G 18836800.95 18836801.11 18836801.27 0.2679 0.0083 *

Venus 46861-09-07 18:00 G 18836939.15 18836939.25 18836939.35 0.3689 0.0360

Moon 46864-10-21 12:58 G 18838078.94 18838079.04 18838079.14 0.2662 0.0639

Earth 46864-10-21 13:26 G 18838078.96 18838079.06 18838079.16 0.2657 0.0688 *

Jupiter 46866-04-02 12:14 G 18838606.93 18838607.01 18838607.09 0.0519 0.0407

Jupiter 46866-06-30 16:05 G 18838696.06 18838696.17 18838696.29 0.0516 0.0190

Venus 46867-03-24 09:07 G 18838962.79 18838962.88 18838962.96 0.3689 0.1844

Mars 46867-06-16 05:31 G 18839046.62 18839046.73 18839046.83 0.1903 0.0629

Uranus 46869-12-27 15:22 G 18839972.03 18839972.14 18839972.26 0.0138 0.0112

Mars 46870-03-22 13:41 G 18840056.91 18840057.07 18840057.24 0.1625 0.0349

Uranus 46870-03-25 23:31 G 18840060.32 18840060.48 18840060.64 0.0138 0.0082

Uranus 46870-06-22 07:12 G 18840148.63 18840148.80 18840149.00 0.0138 0.0053

Uranus 46870-09-18 15:22 G 18840236.95 18840237.14 18840237.34 0.0137 0.0023

Uranus 46870-12-15 23:31 G 18840325.28 18840325.48 18840325.67 0.0137 0.0007

Uranus 46871-03-14 07:26 G 18840413.62 18840413.81 18840414.00 0.0137 0.0037

Uranus 46871-06-10 15:07 G 18840501.97 18840502.13 18840502.31 0.0137 0.0066

Saturn 46871-07-21 09:50 G 18840542.82 18840542.91 18840543.01 0.0299 0.0193

Uranus 46871-09-06 23:02 G 18840590.33 18840590.46 18840590.61 0.0137 0.0095

Saturn 46871-10-17 22:05 G 18840631.29 18840631.42 18840631.54 0.0299 0.0018

Uranus 46871-12-04 06:58 G 18840678.72 18840678.79 18840678.88 0.0137 0.0124

Saturn 46872-01-14 09:50 G 18840719.81 18840719.91 18840720.02 0.0298 0.0158

Jupiter 46872-08-20 06:14 G 18840938.58 18840938.76 18840938.94 0.0509 0.0165

Moon 46877-10-24 06:29 G 18842829.70 18842829.77 18842829.85 0.2662 0.1882

Earth 46877-10-24 06:29 G 18842829.70 18842829.77 18842829.84 0.2656 0.1891 *

Jupiter 46878-04-18 20:38 G 18843006.24 18843006.36 18843006.49 0.0517 0.0044

Mars 46879-08-12 14:24 G 18843486.99 18843487.10 18843487.22 0.1628 0.1149

Jupiter 46884-06-08 02:24 G 18845248.41 18845248.60 18845248.79 0.0508 0.0055

Moon 46884-10-17 07:26 G 18845379.72 18845379.81 18845379.90 0.2655 0.1521

Earth 46884-10-17 07:55 G 18845379.75 18845379.83 18845379.92 0.2658 0.1505 *

Saturn 46887-04-30 04:05 G 18846304.50 18846304.67 18846304.85 0.0263 0.0099

Saturn 46887-07-28 02:10 G 18846393.40 18846393.59 18846393.77 0.0264 0.0086

Jupiter 46890-02-05 01:12 G 18847316.43 18847316.55 18847316.67 0.0518 0.0115

Jupiter 46890-05-05 04:48 G 18847405.66 18847405.70 18847405.75 0.0516 0.0477

Moon 46894-04-20 11:02 G 18848851.92 18848851.96 18848852.01 0.2680 0.2553

Jupiter 46896-03-26 22:05 G 18849558.26 18849558.42 18849558.58 0.0508 0.0278

Mars 46897-07-24 20:38 G 18850043.26 18850043.36 18850043.46 0.1908 0.0922

Moon 46897-10-20 00:29 G 18850130.41 18850130.52 18850130.63 0.2660 0.0408

Earth 46897-10-20 01:12 G 18850130.44 18850130.55 18850130.65 0.2657 0.0308 *

Saturn 46900-12-08 12:43 G 18851274.95 18851275.03 18851275.11 0.0299 0.0235

Saturn 46901-03-07 00:43 G 18851363.41 18851363.53 18851363.66 0.0298 0.0059

Saturn 46901-06-03 12:43 G 18851451.91 18851452.03 18851452.15 0.0298 0.0116

Saturn 46901-08-31 00:29 G 18851540.50 18851540.52 18851540.55 0.0297 0.0288

Jupiter 46901-11-25 06:00 G 18851626.64 18851626.75 18851626.86 0.0518 0.0261

Jupiter 46902-02-22 09:50 G 18851715.82 18851715.91 18851716.01 0.0516 0.0335

Venus 46904-06-12 10:05 G 18852556.78 18852556.92 18852557.07 0.3681 0.1614

Mars 46906-12-16 05:31 G 18853473.62 18853473.73 18853473.84 0.1904 0.0445

Earth 46907-04-24 19:55 G 18853603.17 18853603.33 18853603.50 0.2675 0.0348

Moon 46907-04-24 21:50 G 18853603.25 18853603.41 18853603.57 0.2677 0.0545 *

Jupiter 46908-04-14 07:12 G 18853958.67 18853958.80 18853958.93 0.0509 0.0370

Neptune 46908-11-19 14:53 G 18854178.10 18854178.12 18854178.15 0.0089 0.0087

Neptune 46909-02-15 15:50 G 18854266.12 18854266.16 18854266.23 0.0089 0.0080

Neptune 46909-05-14 17:17 G 18854354.16 18854354.22 18854354.31 0.0089 0.0072

Neptune 46909-08-10 18:43 G 18854442.19 18854442.28 18854442.37 0.0089 0.0064

Mars 46909-09-21 14:38 G 18854483.95 18854484.11 18854484.27 0.1625 0.0586

Neptune 46909-11-06 19:55 G 18854530.24 18854530.33 18854530.43 0.0089 0.0057

Neptune 46910-02-02 21:07 G 18854618.28 18854618.38 18854618.50 0.0089 0.0049

Neptune 46910-05-01 22:34 G 18854706.33 18854706.44 18854706.56 0.0089 0.0041

Neptune 46910-07-28 23:46 G 18854794.37 18854794.49 18854794.61 0.0089 0.0034

Moon 46910-10-23 17:46 G 18854881.14 18854881.24 18854881.34 0.2662 0.0879

Earth 46910-10-23 18:14 G 18854881.16 18854881.26 18854881.36 0.2656 0.0929 *

Neptune 46910-10-25 00:58 G 18854882.42 18854882.54 18854882.67 0.0089 0.0026

Neptune 46911-01-21 02:10 G 18854970.47 18854970.59 18854970.73 0.0089 0.0019

Neptune 46911-04-19 03:36 G 18855058.52 18855058.65 18855058.78 0.0089 0.0011

Neptune 46911-07-16 04:48 G 18855146.57 18855146.70 18855146.83 0.0089 0.0004

Neptune 46911-10-12 06:00 G 18855234.62 18855234.75 18855234.89 0.0089 0.0006

Neptune 46912-01-08 07:12 G 18855322.68 18855322.80 18855322.94 0.0089 0.0013

Neptune 46912-04-05 08:38 G 18855410.73 18855410.86 18855410.99 0.0089 0.0020

Neptune 46912-07-02 09:50 G 18855498.79 18855498.91 18855499.04 0.0089 0.0028

Neptune 46912-09-28 11:02 G 18855586.85 18855586.96 18855587.09 0.0089 0.0035

Venus 46912-09-30 00:00 G 18855588.42 18855588.50 18855588.59 0.3689 0.1713

Neptune 46912-12-25 12:14 G 18855674.90 18855675.01 18855675.13 0.0089 0.0043

Neptune 46913-03-23 13:26 G 18855762.96 18855763.06 18855763.18 0.0089 0.0051

Uranus 46913-06-18 12:43 G 18855849.99 18855850.03 18855850.09 0.0140 0.0128

Neptune 46913-06-19 14:53 G 18855851.03 18855851.12 18855851.22 0.0089 0.0058

Jupiter 46913-09-13 10:48 G 18855936.87 18855936.95 18855937.03 0.0519 0.0407

Uranus 46913-09-14 16:05 G 18855938.09 18855938.17 18855938.26 0.0140 0.0107

Neptune 46913-09-15 16:05 G 18855939.09 18855939.17 18855939.26 0.0089 0.0066

Jupiter 46913-12-11 14:53 G 18856026.00 18856026.12 18856026.23 0.0517 0.0192

Uranus 46913-12-11 19:26 G 18856026.21 18856026.31 18856026.41 0.0140 0.0087 *

Neptune 46913-12-12 17:02 G 18856027.16 18856027.21 18856027.30 0.0089 0.0074

Uranus 46914-03-09 22:34 G 18856114.33 18856114.44 18856114.56 0.0140 0.0067

Neptune 46914-03-10 18:29 G 18856115.23 18856115.27 18856115.33 0.0089 0.0081

Uranus 46914-06-06 01:55 G 18856202.46 18856202.58 18856202.71 0.0141 0.0046

Neptune 46914-06-06 19:55 G 18856203.33 18856203.33 18856203.34 0.0089 0.0089

Uranus 46914-09-02 05:17 G 18856290.59 18856290.72 18856290.85 0.0141 0.0024

Uranus 46914-11-29 08:38 G 18856378.73 18856378.86 18856378.99 0.0141 0.0004

Uranus 46915-02-25 12:00 G 18856466.87 18856467.00 18856467.12 0.0141 0.0018

Uranus 46915-05-24 15:07 G 18856555.01 18856555.13 18856555.26 0.0141 0.0039

Uranus 46915-08-20 18:29 G 18856643.15 18856643.27 18856643.39 0.0141 0.0060

Uranus 46915-11-16 21:36 G 18856731.30 18856731.40 18856731.52 0.0141 0.0081

Uranus 46916-02-13 00:58 G 18856819.46 18856819.54 18856819.64 0.0141 0.0102

Mars 46916-05-07 14:10 G 18856904.06 18856904.09 18856904.11 0.1898 0.1838

Uranus 46916-05-11 04:19 G 18856907.63 18856907.68 18856907.75 0.0141 0.0123

Saturn 46916-09-17 04:19 G 18857036.53 18857036.68 18857036.86 0.0263 0.0140

Saturn 46916-12-15 02:24 G 18857125.41 18857125.60 18857125.79 0.0264 0.0046

Saturn 46917-03-14 00:29 G 18857214.43 18857214.52 18857214.61 0.0265 0.0232

Moon 46917-10-16 19:26 G 18857431.27 18857431.31 18857431.34 0.2654 0.2469

Earth 46917-10-16 19:41 G 18857431.28 18857431.32 18857431.35 0.2659 0.2481 *

Venus 46918-04-15 15:07 G 18857612.03 18857612.13 18857612.23 0.3689 0.0470

Mars 46919-02-11 15:07 G 18857914.00 18857914.13 18857914.27 0.1628 0.0921

Jupiter 46920-02-01 02:53 G 18858268.45 18858268.62 18858268.81 0.0509 0.0149

Earth 46923-10-26 11:02 G 18859631.90 18859631.96 18859632.03 0.2655 0.2124

Moon 46923-10-26 11:17 G 18859631.91 18859631.97 18859632.03 0.2662 0.2173 *

Venus 46923-10-30 06:14 G 18859635.70 18859635.76 18859635.83 0.3689 0.2644

Jupiter 46925-09-29 19:12 G 18860336.18 18860336.30 18860336.43 0.0517 0.0039

Saturn 46930-04-27 15:07 G 18862007.09 18862007.13 18862007.17 0.0300 0.0283

Saturn 46930-07-25 03:07 G 18862095.51 18862095.63 18862095.75 0.0299 0.0106

Moon 46930-10-19 12:14 G 18862181.92 18862182.01 18862182.10 0.2655 0.1399

Earth 46930-10-19 12:43 G 18862181.94 18862182.03 18862182.13 0.2658 0.1259 *

Saturn 46930-10-21 15:07 G 18862184.00 18862184.13 18862184.25 0.0298 0.0069

Saturn 46931-01-18 02:53 G 18862272.55 18862272.62 18862272.70 0.0297 0.0242

Jupiter 46931-11-19 23:17 G 18862578.29 18862578.47 18862578.66 0.0508 0.0068

Mars 46937-01-23 20:38 G 18864470.27 18864470.36 18864470.45 0.1908 0.1101

Jupiter 46937-07-18 23:46 G 18864646.37 18864646.49 18864646.61 0.0518 0.0113

Jupiter 46937-10-16 03:36 G 18864735.60 18864735.65 18864735.69 0.0515 0.0478

Earth 46940-04-21 17:17 G 18865654.13 18865654.22 18865654.31 0.2674 0.2165

Moon 46940-04-21 18:14 G 18865654.17 18865654.26 18865654.36 0.2680 0.2140 *

Jupiter 46943-09-07 19:26 G 18866888.15 18866888.31 18866888.46 0.0508 0.0287

Moon 46943-10-22 05:17 G 18866932.61 18866932.72 18866932.82 0.2661 0.0100

Earth 46943-10-22 05:46 G 18866932.63 18866932.74 18866932.85 0.2657 0.0072 *

Saturn 46946-02-04 04:05 G 18867768.54 18867768.67 18867768.81 0.0263 0.0186

Saturn 46946-05-04 02:10 G 18867857.39 18867857.59 18867857.78 0.0264 0.0004

Mars 46946-06-16 05:17 G 18867900.61 18867900.72 18867900.83 0.1903 0.0305

Saturn 46946-07-31 23:46 G 18867946.37 18867946.49 18867946.64 0.0265 0.0186

Pluto 46946-09-08 12:14 G 18867984.99 18867985.01 18867985.07 0.0068 0.0065

Pluto 46946-12-05 13:12 G 18868072.98 18868073.05 18868073.13 0.0068 0.0054

Pluto 46947-03-03 13:26 G 18868160.98 18868161.06 18868161.18 0.0068 0.0044

Pluto 46947-05-30 14:10 G 18868248.98 18868249.09 18868249.22 0.0068 0.0034

Pluto 46947-08-26 14:38 G 18868337.00 18868337.11 18868337.25 0.0068 0.0023

Pluto 46947-11-22 15:22 G 18868425.01 18868425.14 18868425.28 0.0068 0.0012

Pluto 46948-02-18 16:05 G 18868513.03 18868513.17 18868513.30 0.0068 0.0002

Pluto 46948-05-16 16:34 G 18868601.06 18868601.19 18868601.32 0.0069 0.0009

Pluto 46948-08-12 17:02 G 18868689.09 18868689.21 18868689.34 0.0069 0.0020

Pluto 46948-11-08 17:31 G 18868777.12 18868777.23 18868777.36 0.0069 0.0031

Pluto 46949-02-04 18:00 G 18868865.16 18868865.25 18868865.37 0.0069 0.0042

Mars 46949-03-22 15:07 G 18868910.98 18868911.13 18868911.28 0.1625 0.0805

Pluto 46949-05-03 18:43 G 18868953.20 18868953.28 18868953.37 0.0069 0.0052

Jupiter 46949-05-07 04:05 G 18868956.56 18868956.67 18868956.78 0.0518 0.0270

Pluto 46949-07-30 19:12 G 18869041.26 18869041.30 18869041.36 0.0069 0.0063

Jupiter 46949-08-04 07:55 G 18869045.74 18869045.83 18869045.93 0.0516 0.0325

Earth 46953-04-25 03:07 G 18870405.47 18870405.63 18870405.78 0.2675 0.0900

Moon 46953-04-25 05:02 G 18870405.56 18870405.71 18870405.85 0.2676 0.1173 *

Uranus 46954-01-17 21:36 G 18870673.28 18870673.40 18870673.52 0.0138 0.0108

Uranus 46954-04-16 05:46 G 18870761.57 18870761.74 18870761.90 0.0138 0.0078

Uranus 46954-07-13 13:26 G 18870849.88 18870850.06 18870850.25 0.0138 0.0049

Uranus 46954-10-09 21:36 G 18870938.21 18870938.40 18870938.60 0.0137 0.0019

Uranus 46955-01-06 05:31 G 18871026.54 18871026.73 18871026.93 0.0137 0.0011

Uranus 46955-04-04 13:26 G 18871114.88 18871115.06 18871115.25 0.0137 0.0041

Uranus 46955-07-01 21:22 G 18871203.23 18871203.39 18871203.57 0.0137 0.0070

Jupiter 46955-09-25 05:46 G 18871288.62 18871288.74 18871288.86 0.0509 0.0379

Uranus 46955-09-28 05:17 G 18871291.59 18871291.72 18871291.86 0.0137 0.0099

Mars 46955-11-06 14:10 G 18871331.04 18871331.09 18871331.14 0.1899 0.1673

Uranus 46955-12-25 13:12 G 18871379.99 18871380.05 18871380.12 0.0137 0.0128

Moon 46956-10-23 22:34 G 18871683.35 18871683.44 18871683.54 0.2662 0.1103

Earth 46956-10-23 22:48 G 18871683.36 18871683.45 18871683.55 0.2656 0.1160 *

Mars 46958-08-12 16:05 G 18872341.02 18872341.17 18872341.32 0.1628 0.0681

Saturn 46959-12-12 06:00 G 18872827.64 18872827.75 18872827.87 0.0299 0.0146

Saturn 46960-03-09 18:00 G 18872916.13 18872916.25 18872916.38 0.0298 0.0031

Saturn 46960-06-06 06:00 G 18873004.66 18873004.75 18873004.84 0.0297 0.0203

Jupiter 46961-02-23 08:53 G 18873266.80 18873266.87 18873266.94 0.0519 0.0419

Jupiter 46961-05-23 12:43 G 18873355.92 18873356.03 18873356.15 0.0517 0.0181

Moon 46963-10-18 00:00 G 18874233.45 18874233.50 18874233.55 0.2653 0.2327

Earth 46963-10-18 00:29 G 18874233.46 18874233.52 18874233.57 0.2659 0.2244 *

Venus 46963-10-22 06:14 G 18874237.71 18874237.76 18874237.82 0.3690 0.3073

Jupiter 46967-07-14 00:14 G 18875598.32 18875598.51 18875598.69 0.0508 0.0136

Venus 46969-05-06 21:22 G 18876261.29 18876261.39 18876261.49 0.3689 0.0921

Earth 46969-10-26 15:50 G 18876434.11 18876434.16 18876434.21 0.2655 0.2356

Moon 46969-10-26 16:05 G 18876434.13 18876434.17 18876434.22 0.2662 0.2405 *

Jupiter 46973-03-11 17:31 G 18877666.11 18877666.23 18877666.36 0.0518 0.0037

Venus 46974-11-20 12:29 G 18878284.93 18878285.02 18878285.12 0.3689 0.1259

Saturn 46975-06-24 04:48 G 18878500.61 18878500.70 18878500.81 0.0263 0.0223

Saturn 46975-09-21 02:53 G 18878589.43 18878589.62 18878589.81 0.0264 0.0038

Saturn 46975-12-19 00:43 G 18878678.37 18878678.53 18878678.69 0.0265 0.0148

Mars 46976-07-24 20:38 G 18878897.27 18878897.36 18878897.44 0.1908 0.1259

Moon 46976-10-19 16:48 G 18878984.10 18878984.20 18878984.30 0.2657 0.1050

Earth 46976-10-19 17:31 G 18878984.13 18878984.23 18878984.33 0.2658 0.1021 *

Jupiter 46979-05-01 19:55 G 18879908.14 18879908.33 18879908.51 0.0508 0.0087

Venus 46980-06-05 03:36 G 18880308.62 18880308.65 18880308.69 0.3689 0.3444

Jupiter 46984-12-28 22:05 G 18881976.30 18881976.42 18881976.54 0.0518 0.0120

Jupiter 46985-03-28 01:55 G 18882065.53 18882065.58 18882065.63 0.0516 0.0472

Mars 46985-12-15 05:17 G 18882327.61 18882327.72 18882327.83 0.1903 0.0135

Earth 46986-04-23 00:14 G 18882456.38 18882456.51 18882456.64 0.2674 0.1622

Moon 46986-04-23 01:26 G 18882456.42 18882456.56 18882456.70 0.2679 0.1376 *

Mars 46988-09-20 15:50 G 18883338.03 18883338.16 18883338.29 0.1625 0.1036

Saturn 46989-04-30 08:53 G 18883559.78 18883559.87 18883559.97 0.0299 0.0187

Saturn 46989-07-27 20:53 G 18883648.25 18883648.37 18883648.50 0.0298 0.0016

Moon 46989-10-22 10:05 G 18883734.81 18883734.92 18883735.02 0.2661 0.0109

Earth 46989-10-22 10:34 G 18883734.83 18883734.94 18883735.05 0.2657 0.0193 *

Saturn 46989-10-24 08:53 G 18883736.77 18883736.87 18883736.98 0.0298 0.0163

Jupiter 46991-02-17 16:05 G 18884218.02 18884218.17 18884218.32 0.0508 0.0305

Neptune 46993-04-20 11:31 G 18885010.94 18885010.98 18885011.07 0.0088 0.0084

Neptune 46993-07-17 15:36 G 18885099.05 18885099.15 18885099.28 0.0088 0.0072

Neptune 46993-10-13 19:12 G 18885187.18 18885187.30 18885187.46 0.0089 0.0061

Neptune 46994-01-09 23:17 G 18885275.31 18885275.47 18885275.64 0.0089 0.0049

Neptune 46994-04-08 02:53 G 18885363.45 18885363.62 18885363.81 0.0089 0.0038

Neptune 46994-07-05 06:58 G 18885451.60 18885451.79 18885451.98 0.0089 0.0026

Neptune 46994-10-01 10:34 G 18885539.75 18885539.94 18885540.14 0.0089 0.0015

Neptune 46994-12-28 14:24 G 18885627.90 18885628.10 18885628.30 0.0089 0.0003

Neptune 46995-03-26 18:14 G 18885716.06 18885716.26 18885716.46 0.0089 0.0008

Mars 46995-05-07 13:55 G 18885758.02 18885758.08 18885758.15 0.1898 0.1512

Neptune 46995-06-22 22:05 G 18885804.22 18885804.42 18885804.61 0.0089 0.0020

Neptune 46995-09-19 01:26 G 18885892.39 18885892.56 18885892.76 0.0089 0.0032

Neptune 46995-12-16 05:31 G 18885980.56 18885980.73 18885980.90 0.0089 0.0043

Neptune 46996-03-13 08:53 G 18886068.73 18886068.87 18886069.04 0.0089 0.0055

Neptune 46996-06-09 12:58 G 18886156.91 18886157.04 18886157.17 0.0089 0.0066

Neptune 46996-09-05 16:19 G 18886245.11 18886245.18 18886245.29 0.0089 0.0078

Jupiter 46996-10-17 02:38 G 18886286.50 18886286.61 18886286.72 0.0518 0.0272

Jupiter 46997-01-14 06:29 G 18886375.67 18886375.77 18886375.87 0.0516 0.0323

Uranus 46997-07-08 19:55 G 18886551.28 18886551.33 18886551.40 0.0140 0.0123

Uranus 46997-10-04 23:31 G 18886639.39 18886639.48 18886639.57 0.0140 0.0102

Uranus 46998-01-01 02:38 G 18886727.51 18886727.61 18886727.72 0.0140 0.0082

Mars 46998-02-10 16:34 G 18886768.03 18886768.19 18886768.36 0.1628 0.0468

Uranus 46998-03-30 06:00 G 18886815.63 18886815.75 18886815.87 0.0140 0.0061

Uranus 46998-06-26 09:07 G 18886903.76 18886903.88 18886904.01 0.0140 0.0041

Uranus 46998-09-22 12:29 G 18886991.89 18886992.02 18886992.15 0.0141 0.0020

Uranus 46998-12-19 15:50 G 18887080.03 18887080.16 18887080.29 0.0141 0.0002

Uranus 46999-03-17 18:58 G 18887168.17 18887168.29 18887168.42 0.0141 0.0023

Earth 46999-04-26 10:05 G 18887207.78 18887207.92 18887208.06 0.2675 0.1457

Moon 46999-04-26 12:00 G 18887207.88 18887208.00 18887208.13 0.2676 0.1633 *

Uranus 46999-06-13 22:19 G 18887256.31 18887256.43 18887256.56 0.0141 0.0043

Uranus 46999-09-10 01:41 G 18887344.45 18887344.57 18887344.69 0.0141 0.0064

Uranus 46999-12-07 05:02 G 18887432.61 18887432.71 18887432.81 0.0141 0.0085

Uranus 47000-03-05 08:24 G 18887520.76 18887520.85 18887520.93 0.0141 0.0107

Uranus 47000-06-01 11:46 G 18887608.93 18887608.99 18887609.04 0.0141 0.0128

48TH MILLENNIUM CE

This is a list of transits of Mercury in the 48th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	**47002-10-26 03:36**	**G**	**18888485.56**	**18888485.65**	**18888485.74**	**0.2663**	**0.1431**	
Earth	**47002-10-26 03:36**	**G**	**18888485.56**	**18888485.65**	**18888485.74**	**0.2656**	**0.1393**	*
Jupiter	**47003-03-08 02:53**	**G**	**18888618.49**	**18888618.62**	**18888618.75**	**0.0509**	**0.0367**	
Saturn	**47005-02-08 02:38**	**G**	**18889321.43**	**18889321.61**	**18889321.80**	**0.0264**	**0.0083**	
Saturn	**47005-05-08 00:29**	**G**	**18889410.35**	**18889410.52**	**18889410.71**	**0.0264**	**0.0103**	
Jupiter	**47008-08-06 06:43**	**G**	**18890596.72**	**18890596.78**	**18890596.85**	**0.0519**	**0.0432**	
Jupiter	**47008-11-03 10:48**	**G**	**18890685.83**	**18890685.95**	**18890686.07**	**0.0517**	**0.0168**	
Moon	**47009-10-19 04:48**	**G**	**18891035.63**	**18891035.70**	**18891035.76**	**0.2653**	**0.2029**	
Earth	**47009-10-19 05:02**	**G**	**18891035.64**	**18891035.71**	**18891035.78**	**0.2659**	**0.2004**	*
Venus	**47012-02-09 03:50**	**G**	**18891878.51**	**18891878.66**	**18891878.81**	**0.3681**	**0.1318**	
Jupiter	**47014-12-24 22:19**	**G**	**18892928.25**	**18892928.43**	**18892928.61**	**0.0509**	**0.0139**	
Earth	**47015-10-28 20:38**	**G**	**18893236.34**	**18893236.36**	**18893236.38**	**0.2655**	**0.2588**	
Moon	**47015-10-28 20:53**	**G**	**18893236.36**	**18893236.37**	**18893236.39**	**0.2661**	**0.2622**	*
Mars	**47016-01-24 20:24**	**G**	**18893324.28**	**18893324.35**	**18893324.43**	**0.1908**	**0.1417**	
Saturn	**47018-09-18 12:00**	**G**	**18894291.92**	**18894292.00**	**18894292.09**	**0.0299**	**0.0224**	
Saturn	**47018-12-16 00:14**	**G**	**18894380.38**	**18894380.51**	**18894380.64**	**0.0298**	**0.0048**	
Saturn	**47019-03-14 12:14**	**G**	**18894468.89**	**18894469.01**	**18894469.12**	**0.0298**	**0.0127**	

Venus	47020-05-29 03:36 G	18894910.57	18894910.65	18894910.73	0.3689	0.2284
Jupiter	47020-08-22 15:36 G	18894996.02	18894996.15	18894996.27	0.0518	0.0023
Moon	47022-10-21 21:36 G	18895786.30	18895786.40	18895786.50	0.2658	0.0916
Earth	47022-10-21 22:19 G	18895786.32	18895786.43	18895786.53	0.2658	0.0790 *
Mars	47025-06-16 05:17 G	18896754.61	18896754.72	18896754.83	0.1903	0.0037
Venus	47025-12-12 18:43 G	18896934.18	18896934.28	18896934.38	0.3689	0.0126
Jupiter	47026-10-12 16:48 G	18897238.02	18897238.20	18897238.39	0.0508	0.0101
Mars	47028-03-22 16:34 G	18897765.09	18897765.19	18897765.30	0.1625	0.1267
Venus	47031-06-28 09:50 G	18898957.83	18898957.91	18898957.99	0.3689	0.2058
Earth	47032-04-24 07:12 G	18899258.65	18899258.80	18899258.95	0.2674	0.1062
Moon	47032-04-24 08:53 G	18899258.72	18899258.87	18899259.02	0.2677	0.0986 *
Jupiter	47032-06-10 20:10 G	18899306.22	18899306.34	18899306.46	0.0518	0.0130
Jupiter	47032-09-08 00:00 G	18899395.45	18899395.50	18899395.55	0.0516	0.0465
Pluto	47033-07-01 16:34 G	18899692.08	18899692.19	18899692.33	0.0076	0.0056
Pluto	47033-09-27 18:58 G	18899780.14	18899780.29	18899780.48	0.0076	0.0036
Pluto	47033-12-24 21:36 G	18899868.22	18899868.40	18899868.60	0.0075	0.0015
Pluto	47034-03-23 00:14 G	18899956.32	18899956.51	18899956.70	0.0075	0.0006
Pluto	47034-06-19 02:24 G	18900044.43	18900044.60	18900044.79	0.0075	0.0026
Saturn	47034-06-28 03:50 G	18900053.48	18900053.66	18900053.83	0.0264	0.0118
Pluto	47034-09-15 04:48 G	18900132.56	18900132.70	18900132.86	0.0075	0.0046
Saturn	47034-09-25 01:41 G	18900142.38	18900142.57	18900142.76	0.0264	0.0067
Mars	47034-11-06 13:55 G	18900185.00	18900185.08	18900185.16	0.1898	0.1351
Pluto	47034-12-12 07:12 G	18900220.72	18900220.80	18900220.90	0.0075	0.0066
Saturn	47034-12-22 23:31 G	18900231.44	18900231.48	18900231.54	0.0265	0.0255
Moon	47035-10-24 14:53 G	18900537.01	18900537.12	18900537.22	0.2661	0.0428
Earth	47035-10-24 15:22 G	18900537.03	18900537.14	18900537.24	0.2657	0.0429 *
Mars	47037-08-12 17:17 G	18901195.05	18901195.22	18901195.39	0.1628	0.0238
Uranus	47037-11-11 19:26 G	18901286.28	18901286.31	18901286.37	0.0138	0.0134
Uranus	47038-02-08 03:36 G	18901374.53	18901374.65	18901374.79	0.0138	0.0104
Uranus	47038-05-07 11:46 G	18901462.83	18901462.99	18901463.16	0.0138	0.0074

Jupiter 47038-07-31 12:29 G 18901547.88 18901548.02 18901548.17 0.0507 0.0324

Uranus 47038-08-03 19:41 G 18901551.14 18901551.32 18901551.51 0.0138 0.0044

Uranus 47038-10-31 03:50 G 18901639.46 18901639.66 18901639.86 0.0138 0.0014

Uranus 47039-01-27 11:46 G 18901727.80 18901727.99 18901728.19 0.0137 0.0015

Uranus 47039-04-25 19:26 G 18901816.14 18901816.31 18901816.51 0.0137 0.0046

Uranus 47039-07-23 03:36 G 18901904.49 18901904.65 18901904.82 0.0137 0.0074

Uranus 47039-10-19 11:31 G 18901992.86 18901992.98 18901993.11 0.0137 0.0104

Uranus 47040-01-15 19:12 G 18902081.27 18902081.30 18902081.36 0.0137 0.0133

Jupiter 47044-03-30 00:43 G 18903616.42 18903616.53 18903616.63 0.0519 0.0284

Jupiter 47044-06-27 04:34 G 18903705.59 18903705.69 18903705.79 0.0516 0.0313

Earth 47045-04-27 17:02 G 18904010.11 18904010.21 18904010.32 0.2675 0.2010

Moon 47045-04-27 18:58 G 18904010.21 18904010.29 18904010.37 0.2676 0.2323 *

Saturn 47048-02-05 15:22 G 18905024.08 18905024.14 18905024.20 0.0299 0.0262

Saturn 47048-05-04 03:22 G 18905112.52 18905112.64 18905112.76 0.0299 0.0085

Saturn 47048-07-31 15:22 G 18905201.01 18905201.14 18905201.26 0.0298 0.0090

Moon 47048-10-26 08:24 G 18905287.76 18905287.85 18905287.93 0.2663 0.1584

Earth 47048-10-26 08:24 G 18905287.76 18905287.85 18905287.93 0.2656 0.1632 *

Saturn 47048-10-28 03:07 G 18905289.57 18905289.63 18905289.69 0.0297 0.0262

Jupiter 47050-08-17 23:02 G 18905948.33 18905948.46 18905948.60 0.0509 0.0345

Mars 47055-07-25 20:24 G 18907751.29 18907751.35 18907751.42 0.1908 0.1583

Moon 47055-10-20 09:22 G 18907837.81 18907837.89 18907837.97 0.2654 0.1836

Earth 47055-10-20 09:50 G 18907837.83 18907837.91 18907837.99 0.2659 0.1766 *

Jupiter 47056-01-17 05:17 G 18907926.65 18907926.72 18907926.78 0.0519 0.0436

Jupiter 47056-04-15 09:07 G 18908015.76 18908015.88 18908016.00 0.0517 0.0163

Jupiter 47062-06-05 19:12 G 18910258.11 18910258.30 18910258.48 0.0509 0.0124

Saturn 47063-11-15 03:22 G 18910785.50 18910785.64 18910785.80 0.0263 0.0163

Saturn 47064-02-12 01:26 G 18910874.37 18910874.56 18910874.76 0.0264 0.0023

Saturn 47064-05-10 23:17 G 18910963.36 18910963.47 18910963.60 0.0265 0.0210

Mars 47064-12-15 05:02 G 18911181.60 18911181.71 18911181.83 0.1903 0.0197

Mars 47067-09-21 17:17 G 18912192.16 18912192.22 18912192.29 0.1625 0.1490

Jupiter 47068-02-02 13:26 G 18912325.94 18912326.06 18912326.19 0.0517 0.0008

Venus 47068-09-15 06:43 G 18912551.63 18912551.78 18912551.93 0.3682 0.1448

Moon 47068-10-22 02:10 G 18912588.49 18912588.59 18912588.70 0.2659 0.0618

Earth 47068-10-22 02:53 G 18912588.52 18912588.62 18912588.73 0.2658 0.0553 *

Venus 47071-06-20 09:50 G 18913559.90 18913559.91 18913559.92 0.3690 0.3649

Neptune 47073-08-17 14:38 G 18914349.08 18914349.11 18914349.15 0.0089 0.0084

Neptune 47073-11-13 15:36 G 18914437.10 18914437.15 18914437.23 0.0089 0.0077

Neptune 47074-02-09 17:02 G 18914525.14 18914525.21 18914525.30 0.0089 0.0069

Jupiter 47074-03-24 14:38 G 18914567.93 18914568.11 18914568.30 0.0508 0.0103

Mars 47074-05-07 13:55 G 18914611.99 18914612.08 18914612.17 0.1899 0.1191

Neptune 47074-05-08 18:29 G 18914613.18 18914613.27 18914613.37 0.0089 0.0061

Neptune 47074-08-04 19:41 G 18914701.22 18914701.32 18914701.43 0.0089 0.0054

Neptune 47074-10-31 20:53 G 18914789.27 18914789.37 18914789.49 0.0089 0.0046

Neptune 47075-01-27 22:19 G 18914877.31 18914877.43 18914877.55 0.0089 0.0038

Neptune 47075-04-25 23:31 G 18914965.36 18914965.48 18914965.61 0.0089 0.0031

Neptune 47075-07-23 00:58 G 18915053.41 18915053.54 18915053.66 0.0089 0.0023

Neptune 47075-10-19 02:10 G 18915141.46 18915141.59 18915141.72 0.0089 0.0015

Neptune 47076-01-15 03:22 G 18915229.51 18915229.64 18915229.77 0.0089 0.0008

Neptune 47076-04-12 04:34 G 18915317.56 18915317.69 18915317.82 0.0089 0.0002

Neptune 47076-07-09 06:00 G 18915405.62 18915405.75 18915405.88 0.0089 0.0008

Neptune 47076-10-05 07:12 G 18915493.67 18915493.80 18915493.93 0.0089 0.0015

Neptune 47077-01-01 08:24 G 18915581.72 18915581.85 18915581.98 0.0089 0.0023

Venus 47077-01-03 00:58 G 18915583.45 18915583.54 18915583.63 0.3689 0.1499

Mars 47077-02-10 18:14 G 18915622.09 18915622.26 18915622.43 0.1628 0.0035

Neptune 47077-03-30 09:36 G 18915669.78 18915669.90 18915670.03 0.0089 0.0031

Saturn 47077-06-24 18:29 G 18915756.27 18915756.27 18915756.27 0.0300 0.0299

Neptune 47077-06-26 10:48 G 18915757.84 18915757.95 18915758.07 0.0089 0.0038

Saturn 47077-09-21 06:29 G 18915844.65 18915844.77 18915844.89 0.0299 0.0122

Neptune 47077-09-22 12:00 G 18915845.90 18915846.00 18915846.12 0.0089 0.0046

Saturn 47077-12-18 18:29 G 18915933.14 18915933.27 18915933.40 0.0298 0.0053

Neptune 47077-12-19 13:12 G 18915933.96 18915934.05 18915934.16 0.0089 0.0054

Saturn 47078-03-17 06:14 G 18916021.68 18916021.76 18916021.85 0.0297 0.0226

Neptune 47078-03-17 14:38 G 18916022.02 18916022.11 18916022.21 0.0089 0.0061

Earth 47078-04-25 14:10 G 18916060.93 18916061.09 18916061.26 0.2674 0.0517

Moon 47078-04-25 16:05 G 18916061.01 18916061.17 18916061.33 0.2677 0.0192 *

Neptune 47078-06-13 15:50 G 18916110.08 18916110.16 18916110.25 0.0089 0.0069

Neptune 47078-09-09 16:48 G 18916198.15 18916198.20 18916198.28 0.0089 0.0077

Neptune 47078-12-06 18:14 G 18916286.23 18916286.26 18916286.31 0.0089 0.0084

Jupiter 47079-11-21 18:00 G 18916636.13 18916636.25 18916636.38 0.0518 0.0145

Jupiter 47080-02-18 21:50 G 18916725.36 18916725.41 18916725.47 0.0516 0.0451

Uranus 47081-05-03 00:00 G 18917164.50 18917164.50 18917164.54 0.0140 0.0138

Uranus 47081-07-30 03:22 G 18917252.58 18917252.64 18917252.72 0.0140 0.0118

Moon 47081-10-24 19:41 G 18917339.21 18917339.32 18917339.42 0.2662 0.0560

Earth 47081-10-24 19:55 G 18917339.23 18917339.33 18917339.44 0.2657 0.0673 *

Uranus 47081-10-26 06:58 G 18917340.69 18917340.79 18917340.88 0.0140 0.0097

Uranus 47082-01-22 10:05 G 18917428.81 18917428.92 18917429.03 0.0140 0.0076

Uranus 47082-04-20 13:26 G 18917516.94 18917517.06 18917517.18 0.0140 0.0055

Uranus 47082-07-17 16:34 G 18917605.07 18917605.19 18917605.32 0.0140 0.0035

Venus 47082-07-19 16:05 G 18917607.07 18917607.17 18917607.27 0.3689 0.0679

Uranus 47082-10-13 19:55 G 18917693.20 18917693.33 18917693.46 0.0141 0.0014

Uranus 47083-01-09 23:17 G 18917781.34 18917781.47 18917781.60 0.0141 0.0008

Uranus 47083-04-08 02:24 G 18917869.48 18917869.60 18917869.73 0.0141 0.0028

Uranus 47083-07-05 05:46 G 18917957.62 18917957.74 18917957.86 0.0141 0.0049

Uranus 47083-10-01 09:07 G 18918045.77 18918045.88 18918045.99 0.0141 0.0070

Uranus 47083-12-28 12:14 G 18918133.92 18918134.01 18918134.11 0.0141 0.0091

Uranus 47084-03-25 15:36 G 18918222.08 18918222.15 18918222.23 0.0141 0.0113

Uranus 47084-06-21 18:58 G 18918310.25 18918310.29 18918310.33 0.0141 0.0134

Jupiter 47086-01-10 09:36 G 18918877.76 18918877.90 18918878.04 0.0507 0.0337

Mars 47086-07-03 18:43 G 18919052.22 18919052.28 18919052.34 0.1632 0.1518

Venus 47088-02-02 07:12 G 18919630.74 18919630.80 18919630.86 0.3689 0.2858

Earth 47091-04-29 00:14 G 18920812.47 18920812.51 18920812.55 0.2675 0.2575

Jupiter 47091-09-09 22:48 G 18920946.34 18920946.45 18920946.55 0.0519 0.0295

Jupiter 47091-12-08 02:38 G 18921035.51 18921035.61 18921035.71 0.0517 0.0304

Saturn 47093-04-03 04:19 G 18921517.56 18921517.68 18921517.82 0.0264 0.0199

Saturn 47093-07-01 02:24 G 18921606.41 18921606.60 18921606.79 0.0264 0.0014

Saturn 47093-09-28 00:14 G 18921695.37 18921695.51 18921695.66 0.0265 0.0173

Moon 47094-10-27 13:12 G 18922089.97 18922090.05 18922090.12 0.2663 0.1938

Earth 47094-10-27 12:58 G 18922089.97 18922090.04 18922090.12 0.2656 0.1863 *

Mars 47095-01-23 20:24 G 18922178.31 18922178.35 18922178.40 0.1908 0.1748

Jupiter 47098-01-27 19:55 G 18923278.18 18923278.33 18923278.47 0.0509 0.0327

Moon 47101-10-21 13:55 G 18924640.00 18924640.08 18924640.17 0.2656 0.1616

Earth 47101-10-21 14:38 G 18924640.02 18924640.11 18924640.19 0.2659 0.1527 *

Jupiter 47103-06-30 03:07 G 18925256.57 18925256.63 18925256.70 0.0519 0.0449

Jupiter 47103-09-27 07:12 G 18925345.68 18925345.80 18925345.92 0.0517 0.0151

Mars 47104-06-16 05:02 G 18925608.60 18925608.71 18925608.83 0.1903 0.0352

Saturn 47107-02-09 09:50 G 18926576.80 18926576.91 18926577.02 0.0299 0.0157

Saturn 47107-05-08 21:50 G 18926665.28 18926665.41 18926665.53 0.0298 0.0020

Saturn 47107-08-05 09:36 G 18926753.81 18926753.90 18926754.00 0.0297 0.0192

Jupiter 47109-11-16 15:36 G 18927587.96 18927588.15 18927588.33 0.0509 0.0102

Mars 47113-11-06 13:55 G 18929038.98 18929039.08 18929039.17 0.1898 0.1025

Moon 47114-10-24 06:58 G 18929390.69 18929390.79 18929390.90 0.2659 0.0429

Earth 47114-10-24 07:41 G 18929390.71 18929390.82 18929390.93 0.2658 0.0310 *

Jupiter 47115-07-16 11:46 G 18929655.87 18929655.99 18929656.12 0.0517 0.0020

Mars 47116-08-12 18:43 G 18930049.11 18930049.28 18930049.45 0.1628 0.0220

Jupiter 47121-09-04 11:31 G 18931897.80 18931897.98 18931898.17 0.0508 0.0119

Uranus 47121-12-03 01:41 G 18931987.52 18931987.57 18931987.65 0.0138 0.0130

Uranus 47122-03-01 09:50 G 18932075.78 18932075.91 18932076.05 0.0138 0.0100

Uranus 47122-05-28 18:00 G 18932164.08 18932164.25 18932164.42 0.0138 0.0070

Saturn 47122-08-22 04:05 G 18932249.61 18932249.67 18932249.75 0.0263 0.0243

Uranus 47122-08-25 01:55 G 18932252.40 18932252.58 18932252.77 0.0138 0.0040

Saturn 47122-11-19 01:55 G 18932338.40 18932338.58 18932338.78 0.0264 0.0060

Uranus 47122-11-21 10:05 G 18932340.72 18932340.92 18932341.11 0.0137 0.0010

Saturn 47123-02-16 00:00 G 18932427.33 18932427.50 18932427.67 0.0264 0.0127

Uranus 47123-02-17 18:00 G 18932429.05 18932429.25 18932429.44 0.0137 0.0019

Uranus 47123-05-17 01:41 G 18932517.40 18932517.57 18932517.77 0.0137 0.0049

Uranus 47123-08-13 09:36 G 18932605.75 18932605.90 18932606.07 0.0137 0.0079

Uranus 47123-11-09 17:46 G 18932694.12 18932694.24 18932694.36 0.0137 0.0108

Uranus 47124-02-06 01:26 G 18932782.56 18932782.56 18932782.58 0.0137 0.0137

Earth 47124-04-26 21:22 G 18932863.22 18932863.39 18932863.55 0.2674 0.0058

Moon 47124-04-26 23:17 G 18932863.30 18932863.47 18932863.63 0.2677 0.0177 *

Mars 47126-01-02 19:26 G 18933479.21 18933479.31 18933479.41 0.1632 0.1288

Jupiter 47127-05-04 16:05 G 18933966.05 18933966.17 18933966.29 0.0518 0.0156

Jupiter 47127-08-01 19:55 G 18934055.27 18934055.33 18934055.40 0.0516 0.0438

Moon 47127-10-27 00:29 G 18934141.42 18934141.52 18934141.62 0.2663 0.0898

Earth 47127-10-27 00:43 G 18934141.43 18934141.53 18934141.63 0.2657 0.0894 *

Venus 47128-01-26 07:12 G 18934232.74 18934232.80 18934232.86 0.3690 0.2866

Jupiter 47133-06-23 07:26 G 18936207.67 18936207.81 18936207.95 0.0507 0.0340

Venus 47133-08-10 22:05 G 18936256.33 18936256.42 18936256.52 0.3689 0.0728

Mars 47134-07-25 20:24 G 18936605.34 18936605.35 18936605.36 0.1908 0.1895

Moon 47134-10-20 01:55 G 18936691.56 18936691.58 18936691.60 0.2653 0.2580

Earth 47134-10-20 02:10 G 18936691.56 18936691.59 18936691.62 0.2659 0.2510 *

Saturn 47136-06-28 12:43 G 18937308.93 18937309.03 18937309.12 0.0299 0.0199

Saturn 47136-09-25 00:43 G 18937397.40 18937397.53 18937397.66 0.0298 0.0023

Saturn 47136-12-22 12:29 G 18937485.92 18937486.02 18937486.14 0.0298 0.0152

Jupiter 47139-02-20 20:38 G 18938276.26 18938276.36 18938276.46 0.0519 0.0308

Venus 47139-02-24 13:12 G 18938279.96 18938280.05 18938280.15 0.3689 0.1479

Jupiter 47139-05-21 00:43 G 18938365.42 18938365.53 18938365.63 0.0517 0.0291

Moon 47140-10-28 18:00 G 18938892.18 18938892.25 18938892.31 0.2662 0.2068

Earth 47140-10-28 17:46 G 18938892.18 18938892.24 18938892.30 0.2656 0.2096 *

Mars 47143-12-16 05:17 G 18940035.61 18940035.72 18940035.82 0.1903 0.0531

Venus 47144-09-09 04:19 G 18940303.67 18940303.68 18940303.69 0.3689 0.3648

Jupiter 47145-07-10 17:02 G 18940608.07 18940608.21 18940608.36 0.0509 0.0316

Moon 47147-10-22 18:43 G 18941442.19 18941442.28 18941442.37 0.2657 0.1338

Earth 47147-10-22 19:12 G 18941442.21 18941442.30 18941442.40 0.2659 0.1294 *

Jupiter 47150-12-10 01:12 G 18942586.50 18942586.55 18942586.61 0.0520 0.0461

Jupiter 47151-03-09 05:17 G 18942675.60 18942675.72 18942675.84 0.0518 0.0142

Saturn 47152-04-07 02:38 G 18943070.43 18943070.61 18943070.79 0.0264 0.0098

Saturn 47152-07-05 00:29 G 18943159.34 18943159.52 18943159.71 0.0265 0.0088

Mars 47153-05-07 13:41 G 18943465.97 18943466.07 18943466.17 0.1898 0.0872

Mars 47156-02-11 19:26 G 18944476.15 18944476.31 18944476.47 0.1628 0.0447

Earth 47157-04-24 18:29 G 18944914.21 18944914.27 18944914.33 0.2673 0.2454

Moon 47157-04-24 19:55 G 18944914.25 18944914.33 18944914.41 0.2678 0.2289 *

Jupiter 47157-04-28 12:43 G 18944917.84 18944918.03 18944918.21 0.0508 0.0090

Neptune 47158-01-17 10:34 G 18945181.86 18945181.94 18945182.04 0.0088 0.0078

Neptune 47158-04-15 14:10 G 18945269.98 18945270.09 18945270.24 0.0088 0.0067

Neptune 47158-07-12 18:14 G 18945358.11 18945358.26 18945358.42 0.0089 0.0055

Neptune 47158-10-08 21:50 G 18945446.25 18945446.41 18945446.59 0.0089 0.0044

Neptune 47159-01-05 01:55 G 18945534.39 18945534.58 18945534.76 0.0089 0.0032

Neptune 47159-04-03 05:31 G 18945622.54 18945622.73 18945622.93 0.0089 0.0021

Neptune 47159-06-30 09:22 G 18945710.70 18945710.89 18945711.09 0.0089 0.0009

Neptune 47159-09-26 13:12 G 18945798.85 18945799.05 18945799.25 0.0089 0.0003

Neptune 47159-12-23 16:48 G 18945887.01 18945887.20 18945887.40 0.0089 0.0014

Neptune 47160-03-20 20:38 G 18945975.18 18945975.36 18945975.56 0.0089 0.0026

Neptune 47160-06-17 00:29 G 18946063.34 18946063.52 18946063.70 0.0089 0.0037

Neptune 47160-09-13 04:05 G 18946151.51 18946151.67 18946151.84 0.0089 0.0049

Moon 47160-10-24 11:46 G 18946192.88 18946192.99 18946193.10 0.2659 0.0158

Earth 47160-10-24 12:29 G 18946192.91 18946193.02 18946193.13 0.2658 0.0088 *

Neptune 47160-12-10 08:10 G 18946239.69 18946239.84 18946239.98 0.0089 0.0060

Neptune 47161-03-08 11:31 G 18946327.88 18946327.98 18946328.11 0.0089 0.0072

Neptune 47161-06-04 15:22 G 18946416.08 18946416.14 18946416.22 0.0089 0.0083

Jupiter 47162-12-26 09:50 G 18946985.79 18946985.91 18946986.04 0.0518 0.0013

Uranus 47165-05-24 07:26 G 18947865.78 18947865.81 18947865.87 0.0140 0.0133

Mars 47165-07-03 20:10 G 18947906.21 18947906.34 18947906.46 0.1632 0.1066

Uranus 47165-08-20 11:02 G 18947953.88 18947953.96 18947954.04 0.0140 0.0111

Saturn 47165-11-15 15:50 G 18948041.08 18948041.16 18948041.24 0.0299 0.0235

Uranus 47165-11-16 14:10 G 18948042.00 18948042.09 18948042.19 0.0140 0.0091

Saturn 47166-02-12 03:50 G 18948129.54 18948129.66 18948129.79 0.0299 0.0058

Uranus 47166-02-12 17:31 G 18948130.12 18948130.23 18948130.34 0.0140 0.0070

Saturn 47166-05-11 15:50 G 18948218.04 18948218.16 18948218.28 0.0298 0.0116

Uranus 47166-05-11 20:38 G 18948218.25 18948218.36 18948218.49 0.0140 0.0050 *

Uranus 47166-08-08 00:00 G 18948306.38 18948306.50 18948306.63 0.0141 0.0029

Saturn 47166-08-08 03:36 G 18948306.63 18948306.65 18948306.68 0.0297 0.0289 *

Uranus 47166-11-04 03:22 G 18948394.51 18948394.64 18948394.77 0.0141 0.0008

Uranus 47167-01-31 06:43 G 18948482.65 18948482.78 18948482.91 0.0141 0.0014

Uranus 47167-04-29 09:50 G 18948570.79 18948570.91 18948571.04 0.0141 0.0034

Uranus 47167-07-26 13:12 G 18948658.93 18948659.05 18948659.17 0.0141 0.0055

Uranus 47167-10-22 16:34 G 18948747.08 18948747.19 18948747.30 0.0141 0.0076

Uranus 47168-01-18 19:41 G 18948835.23 18948835.32 18948835.42 0.0141 0.0098

Uranus 47168-04-15 23:02 G 18948923.40 18948923.46 18948923.53 0.0141 0.0119

Uranus 47168-07-13 02:24 G 18949011.59 18949011.60 18949011.62 0.0141 0.0140

Jupiter 47169-02-14 08:10 G 18949227.66 18949227.84 18949228.02 0.0508 0.0137

Earth 47170-04-28 04:19 G 18949665.52 18949665.68 18949665.84 0.2674 0.0597

Moon 47170-04-28 06:00 G 18949665.60 18949665.75 18949665.91 0.2677 0.0899 *

Moon 47173-10-27 05:17 G 18950943.62 18950943.72 18950943.82 0.2663 0.1082

Earth 47173-10-27 05:31 G 18950943.63 18950943.73 18950943.82 0.2657 0.1133 *

Jupiter 47174-10-14 14:38 G 18951295.99 18951296.11 18951296.23 0.0518 0.0158

Jupiter 47175-01-11 18:29 G 18951385.20 18951385.27 18951385.33 0.0516 0.0436

Venus 47176-05-14 00:29 G 18951873.37 18951873.52 18951873.67 0.3681 0.1492

Moon 47180-10-20 06:29 G 18953493.72 18953493.77 18953493.83 0.2654 0.2255

Earth 47180-10-20 06:58 G 18953493.73 18953493.79 18953493.84 0.2659 0.2271 *

Jupiter 47180-12-03 04:19 G 18953537.55 18953537.68 18953537.82 0.0508 0.0354

Saturn 47181-08-25 01:55 G 18953802.42 18953802.58 18953802.74 0.0263 0.0146

Saturn 47181-11-21 23:46 G 18953891.30 18953891.49 18953891.69 0.0264 0.0039

Saturn 47182-02-18 21:50 G 18953980.31 18953980.41 18953980.51 0.0265 0.0225

Mars 47183-06-16 05:02 G 18954462.60 18954462.71 18954462.81 0.1903 0.0665

Venus 47184-09-01 04:19 G 18954905.60 18954905.68 18954905.76 0.3690 0.2094

Jupiter 47186-08-02 18:58 G 18955606.19 18955606.29 18955606.39 0.0519 0.0315

Earth 47186-10-29 22:34 G 18955694.39 18955694.44 18955694.49 0.2656 0.2328

Moon 47186-10-29 22:48 G 18955694.41 18955694.45 18955694.49 0.2661 0.2414 *

Jupiter 47186-10-30 22:48 G 18955695.35 18955695.45 18955695.56 0.0516 0.0282

Venus 47190-03-17 19:26 G 18956929.21 18956929.31 18956929.41 0.3689 0.0107

Mars 47192-11-05 13:41 G 18957892.97 18957893.07 18957893.18 0.1899 0.0703

Jupiter 47192-12-20 14:53 G 18957937.98 18957938.12 18957938.27 0.0509 0.0316

Moon 47193-10-22 23:17 G 18958244.38 18958244.47 18958244.57 0.2657 0.1194

Earth 47193-10-23 00:00 G 18958244.40 18958244.50 18958244.60 0.2658 0.1051 *

Pluto 47194-10-06 20:53 G 18958593.34 18958593.37 18958593.41 0.0068 0.0065

Pluto 47195-01-02 21:22 G 18958681.32 18958681.39 18958681.47 0.0068 0.0055

Pluto 47195-03-31 21:36 G 18958769.32 18958769.40 18958769.52 0.0068 0.0045

Saturn 47195-04-04 18:14 G 18958773.22 18958773.26 18958773.31 0.0300 0.0281

Pluto 47195-06-27 22:19 G 18958857.33 18958857.43 18958857.56 0.0068 0.0035

Saturn 47195-07-02 06:29 G 18958861.65 18958861.77 18958861.89 0.0299 0.0104

Mars 47195-08-12 20:10 G 18958903.19 18958903.34 18958903.50 0.1628 0.0688

Pluto 47195-09-23 23:02 G 18958945.34 18958945.46 18958945.59 0.0068 0.0024

Saturn 47195-09-28 18:29 G 18958950.14 18958950.27 18958950.39 0.0298 0.0072

Venus 47195-10-01 10:34 G 18958952.86 18958952.94 18958953.02 0.3689 0.2256

Pluto 47195-12-20 23:31 G 18959033.35 18959033.48 18959033.62 0.0068 0.0013

Saturn 47195-12-26 06:14 G 18959038.69 18959038.76 18959038.84 0.0297 0.0245

Pluto 47196-03-18 00:14 G 18959121.37 18959121.51 18959121.64 0.0068 0.0002

Pluto 47196-06-14 00:43 G 18959209.40 18959209.53 18959209.67 0.0068 0.0008

Pluto 47196-09-10 01:26 G 18959297.43 18959297.56 18959297.68 0.0069 0.0019

Pluto 47196-12-07 01:41 G 18959385.46 18959385.57 18959385.70 0.0069 0.0030

Pluto 47197-03-05 02:10 G 18959473.50 18959473.59 18959473.71 0.0069 0.0041

Pluto 47197-06-01 02:38 G 18959561.54 18959561.61 18959561.71 0.0069 0.0052

Pluto 47197-08-28 03:36 G 18959649.60 18959649.65 18959649.70 0.0069 0.0062

Jupiter 47198-05-21 23:17 G 18959916.43 18959916.47 18959916.53 0.0519 0.0469

Jupiter 47198-08-19 03:22 G 18960005.52 18960005.64 18960005.77 0.0517 0.0135

Earth 47203-04-26 01:26 G 18961716.45 18961716.56 18961716.68 0.2673 0.1904

Moon 47203-04-26 03:07 G 18961716.51 18961716.63 18961716.75 0.2678 0.1767 *

Jupiter 47204-10-08 10:19 G 18962247.74 18962247.93 18962248.11 0.0508 0.0085

Mars 47205-01-01 20:53 G 18962333.22 18962333.37 18962333.51 0.1632 0.0836

Uranus 47205-12-23 08:38 G 18962688.79 18962688.86 18962688.96 0.0138 0.0123

Uranus 47206-03-21 16:48 G 18962777.06 18962777.20 18962777.35 0.0138 0.0093

Uranus 47206-06-18 00:58 G 18962865.37 18962865.54 18962865.72 0.0138 0.0063

Uranus 47206-09-14 08:53 G 18962953.68 18962953.87 18962954.07 0.0138 0.0033

Moon 47206-10-25 16:34 G 18962995.09 18962995.19 18962995.30 0.2661 0.0127

Earth 47206-10-25 17:02 G 18962995.11 18962995.21 18962995.32 0.2657 0.0197 *

Uranus 47206-12-11 17:02 G 18963042.01 18963042.21 18963042.40 0.0137 0.0004

Uranus 47207-03-10 00:43 G 18963130.35 18963130.53 18963130.73 0.0137 0.0027

Uranus 47207-06-06 08:53 G 18963218.69 18963218.87 18963219.05 0.0137 0.0055

Uranus 47207-09-02 16:34 G 18963307.05 18963307.19 18963307.35 0.0137 0.0085

Uranus 47207-11-30 00:29 G 18963395.42 18963395.52 18963395.64 0.0137 0.0114

Jupiter 47210-06-07 08:10 G 18964315.71 18964315.84 18964315.96 0.0518 0.0019

Saturn 47211-01-12 01:55 G 18964534.46 18964534.58 18964534.72 0.0263 0.0189

Saturn 47211-04-11 00:00 G 18964623.30 18964623.50 18964623.69 0.0264 0.0004

Saturn 47211-07-08 21:36 G 18964712.27 18964712.40 18964712.55 0.0265 0.0183

Earth 47216-04-28 11:17 G 18966467.83 18966467.97 18966468.12 0.2675 0.1154

Moon 47216-04-28 13:12 G 18966467.91 18966468.05 18966468.19 0.2675 0.1330 *

Jupiter 47216-07-27 06:00 G 18966557.57 18966557.75 18966557.93 0.0508 0.0139

Moon 47219-10-28 10:05 G 18967745.83 18967745.92 18967746.01 0.2663 0.1362

Earth 47219-10-28 10:05 G 18967745.83 18967745.92 18967746.02 0.2656 0.1370 *

Jupiter 47222-03-26 12:43 G 18968625.92 18968626.03 18968626.15 0.0518 0.0168

Jupiter 47222-06-23 16:34 G 18968715.13 18968715.19 18968715.26 0.0516 0.0428

Mars 47222-12-15 05:02 G 18968889.61 18968889.71 18968889.81 0.1903 0.0838

Saturn 47224-11-18 09:22 G 18969593.78 18969593.89 18969594.00 0.0299 0.0144

Saturn 47225-02-14 21:22 G 18969682.26 18969682.39 18969682.52 0.0298 0.0032

Saturn 47225-05-14 09:07 G 18969770.80 18969770.88 18969770.98 0.0297 0.0207

Moon 47226-10-21 11:17 G 18970295.90 18970295.97 18970296.03 0.2655 0.2142

Earth 47226-10-21 11:46 G 18970295.92 18970295.99 18970296.05 0.2659 0.2031 *

Jupiter 47228-05-15 01:26 G 18970867.43 18970867.56 18970867.69 0.0508 0.0369

Mars 47232-05-06 13:41 G 18972319.96 18972320.07 18972320.18 0.1898 0.0546

Earth 47232-10-30 03:07 G 18972496.61 18972496.63 18972496.66 0.2656 0.2563

Moon 47232-10-30 03:36 G 18972496.63 18972496.65 18972496.67 0.2661 0.2598 *

Venus 47232-12-19 03:22 G 18972546.49 18972546.64 18972546.79 0.3681 0.1312

Jupiter 47234-01-12 17:31 G 18972936.14 18972936.23 18972936.33 0.0518 0.0314

Jupiter 47234-04-11 21:36 G 18973025.29 18973025.40 18973025.50 0.0516 0.0284

Mars 47235-02-10 20:53 G 18973330.23 18973330.37 18973330.51 0.1628 0.0900

Venus 47235-09-23 10:34 G 18973554.91 18973554.94 18973554.97 0.3690 0.3465

Neptune 47238-02-16 13:12 G 18974432.05 18974432.05 18974432.07 0.0089 0.0088

Neptune 47238-05-15 14:24 G 18974520.06 18974520.10 18974520.16 0.0089 0.0081

Neptune 47238-08-11 15:50 G 18974608.09 18974608.16 18974608.24 0.0089 0.0073

Neptune 47238-11-07 17:17 G 18974696.13 18974696.22 18974696.31 0.0089 0.0065

Neptune 47239-02-03 18:14 G 18974784.17 18974784.26 18974784.37 0.0089 0.0058

Neptune 47239-05-02 19:41 G 18974872.22 18974872.32 18974872.43 0.0089 0.0050

Neptune 47239-07-29 20:53 G 18974960.26 18974960.37 18974960.49 0.0089 0.0042

Moon 47239-10-24 04:05 G 18975046.57 18975046.67 18975046.77 0.2657 0.0851

Earth 47239-10-24 04:48 G 18975046.60 18975046.70 18975046.80 0.2658 0.0814 *

Neptune 47239-10-25 22:05 G 18975048.31 18975048.42 18975048.55 0.0089 0.0035

Neptune 47240-01-21 23:31 G 18975136.36 18975136.48 18975136.61 0.0089 0.0027

Neptune 47240-04-19 00:43 G 18975224.41 18975224.53 18975224.66 0.0089 0.0019

Saturn 47240-05-31 00:58 G 18975266.47 18975266.54 18975266.63 0.0263 0.0239

Jupiter 47240-06-01 12:14 G 18975267.86 18975268.01 18975268.16 0.0509 0.0307

Neptune 47240-07-16 01:55 G 18975312.46 18975312.58 18975312.71 0.0089 0.0012

Saturn 47240-08-27 22:48 G 18975355.26 18975355.45 18975355.64 0.0263 0.0056

Neptune 47240-10-12 03:22 G 18975400.51 18975400.64 18975400.77 0.0089 0.0004

Saturn 47240-11-24 20:38 G 18975444.20 18975444.36 18975444.53 0.0264 0.0130

Neptune 47241-01-08 04:34 G 18975488.56 18975488.69 18975488.82 0.0089 0.0004

Neptune 47241-04-06 05:46 G 18975576.61 18975576.74 18975576.87 0.0089 0.0011

Venus 47241-04-08 01:41 G 18975578.48 18975578.57 18975578.66 0.3689 0.1301

Neptune 47241-07-03 06:58 G 18975664.67 18975664.79 18975664.92 0.0089 0.0019

Neptune 47241-09-29 08:10 G 18975752.72 18975752.84 18975752.97 0.0089 0.0027

Neptune 47241-12-26 09:36 G 18975840.78 18975840.90 18975841.02 0.0089 0.0034

Neptune 47242-03-24 10:48 G 18975928.84 18975928.95 18975929.07 0.0089 0.0042

Neptune 47242-06-20 11:46 G 18976016.89 18976016.99 18976017.11 0.0089 0.0050

Neptune 47242-09-16 13:12 G 18976104.96 18976105.05 18976105.15 0.0089 0.0057

Neptune 47242-12-13 14:24 G 18976193.02 18976193.10 18976193.20 0.0089 0.0065

Neptune 47243-03-11 15:50 G 18976281.09 18976281.16 18976281.23 0.0089 0.0072

Neptune 47243-06-07 16:48 G 18976369.16 18976369.20 18976369.27 0.0089 0.0080

Neptune 47243-09-03 18:00 G 18976457.25 18976457.25 18976457.28 0.0089 0.0088

Mars 47244-07-02 21:36 G 18976760.24 18976760.40 18976760.55 0.1632 0.0604

Jupiter 47245-10-31 21:50 G 18977246.37 18977246.41 18977246.47 0.0519 0.0470

Jupiter 47246-01-29 01:55 G 18977335.46 18977335.58 18977335.70 0.0517 0.0131

Venus 47246-10-22 16:48 G 18977602.10 18977602.20 18977602.30 0.3689 0.0878

Earth 47249-04-26 08:24 G 18978518.71 18978518.85 18978518.99 0.2673 0.1364

Moon 47249-04-26 10:05 G 18978518.77 18978518.92 18978519.06 0.2678 0.1130 *

Uranus 47249-06-13 14:53 G 18978567.08 18978567.12 18978567.18 0.0140 0.0127

Uranus 47249-09-09 18:14 G 18978655.18 18978655.26 18978655.35 0.0140 0.0106

Uranus 47249-12-06 21:36 G 18978743.30 18978743.40 18978743.50 0.0140 0.0085

Uranus 47250-03-05 00:43 G 18978831.42 18978831.53 18978831.65 0.0140 0.0065

Uranus 47250-06-01 04:05 G 18978919.55 18978919.67 18978919.80 0.0141 0.0044

Uranus 47250-08-28 07:26 G 18979007.68 18979007.81 18979007.94 0.0141 0.0023

Uranus 47250-11-24 10:48 G 18979095.82 18979095.95 18979096.08 0.0141 0.0004

Uranus 47251-02-20 13:55 G 18979183.95 18979184.08 18979184.21 0.0141 0.0019

Uranus 47251-05-19 17:17 G 18979272.10 18979272.22 18979272.34 0.0141 0.0040

Uranus 47251-08-15 20:24 G 18979360.24 18979360.35 18979360.47 0.0141 0.0061

Uranus 47251-11-11 23:46 G 18979448.39 18979448.49 18979448.60 0.0141 0.0082

Uranus 47252-02-08 03:07 G 18979536.55 18979536.63 18979536.72 0.0141 0.0103

Jupiter 47252-03-20 08:24 G 18979577.66 18979577.85 18979578.04 0.0509 0.0087

Uranus 47252-05-06 06:29 G 18979624.71 18979624.77 18979624.83 0.0141 0.0124

Venus 47252-05-07 07:55 G 18979625.77 18979625.83 18979625.88 0.3689 0.3059

Moon 47252-10-25 21:22 G 18979797.29 18979797.39 18979797.50 0.2663 0.0309

Earth 47252-10-25 21:50 G 18979797.31 18979797.41 18979797.52 0.2657 0.0400 *

Saturn 47254-04-07 11:17 G 18980325.88 18980325.97 18980326.07 0.0300 0.0197

Saturn 47254-07-04 23:17 G 18980414.35 18980414.47 18980414.60 0.0299 0.0023

Saturn 47254-10-01 11:17 G 18980502.86 18980502.97 18980503.08 0.0298 0.0155

Jupiter 47257-11-17 06:43 G 18981645.65 18981645.78 18981645.90 0.0518 0.0028

Earth 47262-04-29 18:29 G 18983270.14 18983270.27 18983270.39 0.2675 0.1706

Moon 47262-04-29 20:10 G 18983270.23 18983270.34 18983270.46 0.2674 0.1927 *

Mars 47262-06-15 05:02 G 18983316.61 18983316.71 18983316.80 0.1903 0.1005

Jupiter 47264-01-07 04:05 G 18983887.49 18983887.67 18983887.85 0.0508 0.0139

Moon 47265-10-28 14:53 G 18984548.03 18984548.12 18984548.20 0.2663 0.1601

Earth 47265-10-28 14:53 G 18984548.04 18984548.12 18984548.21 0.2656 0.1598 *

Jupiter 47269-09-05 11:17 G 18985955.85 18985955.97 18985956.09 0.0519 0.0172

Jupiter 47269-12-03 15:07 G 18986045.06 18986045.13 18986045.20 0.0516 0.0425

Saturn 47270-01-14 22:19 G 18986087.25 18986087.43 18986087.61 0.0264 0.0104

Saturn 47270-04-13 20:10 G 18986176.15 18986176.34 18986176.52 0.0264 0.0081

Mars 47271-11-05 13:41 G 18986746.96 18986747.07 18986747.18 0.1898 0.0386

Moon 47272-10-21 15:50 G 18987098.08 18987098.16 18987098.24 0.2655 0.1812

Earth 47272-10-21 16:19 G 18987098.11 18987098.18 18987098.26 0.2659 0.1792 *

Mars 47274-08-11 21:36 G 18987757.28 18987757.40 18987757.52 0.1628 0.1133

Jupiter 47275-10-25 23:46 G 18988197.36 18988197.49 18988197.63 0.0507 0.0361

Mars 47281-03-27 22:19 G 18990177.39 18990177.43 18990177.47 0.1893 0.1750

Jupiter 47281-06-24 15:50 G 18990266.07 18990266.16 18990266.26 0.0519 0.0320

Pluto 47281-07-28 22:05 G 18990300.32 18990300.42 18990300.56 0.0076 0.0060

Jupiter 47281-09-21 19:55 G 18990355.22 18990355.33 18990355.43 0.0517 0.0279

Pluto 47281-10-25 00:43 G 18990388.38 18990388.53 18990388.70 0.0076 0.0039

Pluto 47282-01-21 03:07 G 18990476.46 18990476.63 18990476.83 0.0075 0.0019

Pluto 47282-04-19 05:46 G 18990564.55 18990564.74 18990564.93 0.0075 0.0002

Pluto 47282-07-16 08:10 G 18990652.66 18990652.84 18990653.03 0.0075 0.0022

Pluto 47282-10-12 10:34 G 18990740.79 18990740.94 18990741.10 0.0075 0.0043

Pluto 47283-01-08 12:29 G 18990828.94 18990829.02 18990829.15 0.0075 0.0063

Saturn 47283-08-25 13:55 G 18991058.01 18991058.08 18991058.15 0.0300 0.0242

Saturn 47283-11-22 01:55 G 18991146.46 18991146.58 18991146.71 0.0299 0.0065

Mars 47284-01-01 22:19 G 18991187.26 18991187.43 18991187.59 0.1632 0.0380

Saturn 47284-02-18 13:55 G 18991234.97 18991235.08 18991235.20 0.0298 0.0112

Saturn 47284-05-17 01:55 G 18991323.55 18991323.58 18991323.62 0.0297 0.0285

Moon 47285-10-24 08:53 G 18991848.77 18991848.87 18991848.98 0.2658 0.0718

Earth 47285-10-24 09:36 G 18991848.79 18991848.90 18991849.00 0.2658 0.0575 *

Jupiter 47287-11-12 09:36 G 18992597.75 18992597.90 18992598.06 0.0509 0.0298

Uranus 47290-01-12 15:50 G 18993390.07 18993390.16 18993390.28 0.0138 0.0116

Uranus 47290-04-11 00:00 G 18993478.35 18993478.50 18993478.66 0.0138 0.0086

Uranus 47290-07-08 08:10 G 18993566.66 18993566.84 18993567.02 0.0138 0.0056

Uranus 47290-10-04 16:05 G 18993654.98 18993655.17 18993655.36 0.0137 0.0026

Uranus 47291-01-01 00:00 G 18993743.30 18993743.50 18993743.70 0.0137 0.0004

Uranus 47291-03-30 07:55 G 18993831.64 18993831.83 18993832.02 0.0137 0.0033

Uranus 47291-06-26 15:50 G 18993919.99 18993920.16 18993920.34 0.0137 0.0062

Uranus 47291-09-22 23:46 G 18994008.35 18994008.49 18994008.64 0.0137 0.0092

Uranus 47291-12-20 07:12 G 18994096.73 18994096.80 18994096.91 0.0137 0.0122

Venus 47292-04-29 07:55 G 18994227.76 18994227.83 18994227.90 0.3689 0.2678

Jupiter 47293-04-12 20:53 G 18994576.32 18994576.37 18994576.42 0.0519 0.0464

Jupiter 47293-07-11 00:43 G 18994665.41 18994665.53 18994665.66 0.0517 0.0138

Earth 47295-04-27 15:36 G 18995320.99 18995321.15 18995321.30 0.2674 0.0809

Moon 47295-04-27 17:02 G 18995321.06 18995321.21 18995321.37 0.2677 0.0705 *

Venus 47297-11-12 23:02 G 18996251.36 18996251.46 18996251.56 0.3689 0.0509

Moon 47298-10-27 02:10 G 18996599.49 18996599.59 18996599.69 0.2663 0.0629

Earth 47298-10-27 02:38 G 18996599.50 18996599.61 18996599.71 0.2657 0.0633 *

Saturn 47299-06-03 20:53 G 18996819.22 18996819.37 18996819.52 0.0263 0.0158

Jupiter 47299-08-31 06:00 G 18996907.56 18996907.75 18996907.94 0.0509 0.0082

Saturn 47299-08-31 18:43 G 18996908.08 18996908.28 18996908.47 0.0263 0.0026

Saturn 47299-11-28 16:19 G 18996997.07 18996997.18 18996997.30 0.0264 0.0211

Mars 47301-12-15 04:48 G 18997743.61 18997743.70 18997743.79 0.1903 0.1150

Venus 47303-05-30 14:10 G 18998275.00 18998275.09 18998275.18 0.3689 0.1680

Jupiter 47305-04-30 05:17 G 18998975.60 18998975.72 18998975.85 0.0517 0.0020

Earth 47308-05-01 01:26 G 19000072.47 19000072.56 19000072.64 0.2675 0.2257

Moon 47308-05-01 03:22 G 19000072.59 19000072.64 19000072.69 0.2673 0.2515 *

Mars 47311-05-07 13:41 G 19001173.95 19001174.07 19001174.18 0.1899 0.0228

Jupiter 47311-06-20 02:24 G 19001217.42 19001217.60 19001217.78 0.0508 0.0134

Earth 47311-10-30 19:41 G 19001350.24 19001350.32 19001350.39 0.2656 0.1833

Moon 47311-10-30 19:41 G 19001350.25 19001350.32 19001350.40 0.2663 0.1826 *

Saturn 47313-04-11 03:36 G 19001878.53 19001878.65 19001878.77 0.0300 0.0124

Saturn 47313-07-08 15:36 G 19001967.02 19001967.15 19001967.28 0.0299 0.0052

Saturn 47313-10-05 03:36 G 19002055.57 19002055.65 19002055.73 0.0298 0.0227

Mars 47314-02-10 22:19 G 19002184.34 19002184.43 19002184.52 0.1628 0.1371

Jupiter 47317-02-16 09:50 G 19003285.80 19003285.91 19003286.03 0.0518 0.0168

Jupiter 47317-05-16 13:41 G 19003375.01 19003375.07 19003375.14 0.0516 0.0428

Moon 47318-10-23 20:38 G 19003900.27 19003900.36 19003900.44 0.2655 0.1677

Earth 47318-10-23 21:07 G 19003900.30 19003900.38 19003900.47 0.2659 0.1554 *

Mars 47320-09-26 22:19 G 19004604.37 19004604.43 19004604.49 0.1893 0.1588

Neptune 47322-07-19 05:02 G 19005264.68 19005264.71 19005264.80 0.0088 0.0085

Neptune 47322-10-15 09:07 G 19005352.78 19005352.88 19005353.01 0.0088 0.0073

Neptune 47323-01-11 12:43 G 19005440.91 19005441.03 19005441.19 0.0089 0.0062

Jupiter 47323-04-07 22:19 G 19005527.30 19005527.43 19005527.56 0.0507 0.0354

Neptune 47323-04-09 16:48 G 19005529.05 19005529.20 19005529.37 0.0089 0.0050

Mars 47323-07-03 22:48 G 19005614.28 19005614.45 19005614.62 0.1632 0.0156

Neptune 47323-07-06 20:24 G 19005617.19 19005617.35 19005617.54 0.0089 0.0039

Neptune 47323-10-03 00:29 G 19005705.33 19005705.52 19005705.71 0.0089 0.0027

Neptune 47323-12-30 04:05 G 19005793.48 19005793.67 19005793.88 0.0089 0.0016

Neptune 47324-03-27 08:10 G 19005881.64 19005881.84 19005882.04 0.0089 0.0004

Neptune 47324-06-23 11:46 G 19005969.80 19005969.99 19005970.19 0.0089 0.0008

Neptune 47324-09-19 15:36 G 19006057.96 19006058.15 19006058.35 0.0089 0.0019

Neptune 47324-12-16 19:26 G 19006146.12 19006146.31 19006146.50 0.0089 0.0031

Neptune 47325-03-14 23:02 G 19006234.29 19006234.46 19006234.64 0.0089 0.0043

Neptune 47325-06-11 02:53 G 19006322.47 19006322.62 19006322.78 0.0089 0.0054

Neptune 47325-09-07 06:29 G 19006410.65 19006410.77 19006410.91 0.0089 0.0066

Neptune 47325-12-04 10:34 G 19006498.84 19006498.94 19006499.03 0.0089 0.0077

Neptune 47326-03-02 14:10 G 19006587.09 19006587.09 19006587.10 0.0089 0.0089

Saturn 47328-10-21 19:55 G 19007551.21 19007551.33 19007551.44 0.0263 0.0210

Jupiter 47328-12-05 14:38 G 19007596.01 19007596.11 19007596.21 0.0519 0.0319

Saturn 47329-01-18 17:31 G 19007640.04 19007640.23 19007640.42 0.0263 0.0027

Jupiter 47329-03-04 18:29 G 19007685.17 19007685.27 19007685.38 0.0517 0.0281

Saturn 47329-04-17 15:07 G 19007728.98 19007729.13 19007729.29 0.0264 0.0158

Moon 47331-10-26 13:41 G 19008650.96 19008651.07 19008651.18 0.2660 0.0363

Earth 47331-10-26 14:24 G 19008650.99 19008651.10 19008651.20 0.2658 0.0351 *

Uranus 47333-07-04 22:05 G 19009268.36 19009268.42 19009268.49 0.0140 0.0122

Uranus 47333-10-01 01:26 G 19009356.47 19009356.56 19009356.65 0.0140 0.0102

Uranus 47333-12-28 04:34 G 19009444.59 19009444.69 19009444.80 0.0140 0.0081

Uranus 47334-03-26 07:55 G 19009532.71 19009532.83 19009532.95 0.0141 0.0061

Uranus 47334-06-22 11:17 G 19009620.84 19009620.97 19009621.09 0.0141 0.0040

Uranus 47334-09-18 14:24 G 19009708.97 19009709.10 19009709.23 0.0141 0.0019

Uranus 47334-12-15 17:46 G 19009797.11 19009797.24 19009797.37 0.0141 0.0002

Uranus 47335-03-13 21:07 G 19009885.25 19009885.38 19009885.51 0.0141 0.0023

Jupiter 47335-04-25 08:38 G 19009927.72 19009927.86 19009928.01 0.0509 0.0314

Uranus 47335-06-10 00:14 G 19009973.39 19009973.51 19009973.64 0.0141 0.0044

Uranus 47335-09-06 03:36 G 19010061.54 19010061.65 19010061.77 0.0141 0.0065

Uranus 47335-12-03 06:58 G 19010149.69 19010149.79 19010149.89 0.0141 0.0086

Uranus 47336-02-29 10:05 G 19010237.85 19010237.92 19010238.01 0.0141 0.0108

Uranus 47336-05-27 13:26 G 19010326.02 19010326.06 19010326.12 0.0141 0.0129

Venus 47340-08-16 21:07 G 19011868.23 19011868.38 19011868.52 0.3681 0.1643

Jupiter 47340-09-23 19:26 G 19011906.26 19011906.31 19011906.36 0.0519 0.0465

Jupiter 47340-12-21 23:31 G 19011995.36 19011995.48 19011995.60 0.0517 0.0137

Earth 47341-04-28 22:34 G 19012123.28 19012123.44 19012123.60 0.2674 0.0261

Moon 47341-04-29 00:14 G 19012123.35 19012123.51 19012123.68 0.2675 0.0071 *

Mars 47341-06-15 04:48 G 19012170.62 19012170.70 19012170.78 0.1903 0.1317

Saturn 47342-08-29 05:31 G 19012610.63 19012610.73 19012610.84 0.0300 0.0176

Saturn 47342-11-25 17:46 G 19012699.11 19012699.24 19012699.37 0.0299 0.0002

Saturn 47343-02-22 05:46 G 19012787.64 19012787.74 19012787.84 0.0298 0.0177

Moon 47344-10-28 06:58 G 19013401.69 19013401.79 19013401.89 0.2663 0.0768

Earth 47344-10-28 07:26 G 19013401.70 19013401.81 19013401.91 0.2657 0.0878 *

Jupiter 47347-02-11 03:50 G 19014237.47 19014237.66 19014237.85 0.0509 0.0079

Venus 47348-12-05 05:17 G 19014900.63 19014900.72 19014900.80 0.3689 0.1886

Mars 47350-11-05 13:26 G 19015600.95 19015601.06 19015601.18 0.1898 0.0084

Moon 47351-10-22 08:24 G 19015951.83 19015951.85 19015951.87 0.2654 0.2565

Earth 47351-10-22 08:38 G 19015951.83 19015951.86 19015951.89 0.2660 0.2539 *

Jupiter 47352-10-10 04:34 G 19016305.56 19016305.69 19016305.81 0.0517 0.0011

Mars 47353-08-11 23:02 G 19016611.42 19016611.46 19016611.49 0.1628 0.1588

Venus 47354-06-20 20:24 G 19016924.25 19016924.35 19016924.45 0.3689 0.0332

Earth 47357-10-31 00:29 G 19018152.45 19018152.52 19018152.58 0.2656 0.2069

Moon 47357-10-31 00:43 G 19018152.46 19018152.53 19018152.59 0.2662 0.2156 *

Saturn 47358-06-07 15:36 G 19018371.97 19018372.15 19018372.34 0.0263 0.0085

Saturn 47358-09-04 13:26 G 19018460.88 19018461.06 19018461.24 0.0263 0.0098

Jupiter 47358-11-30 00:14 G 19018547.33 19018547.51 19018547.69 0.0508 0.0134

Venus 47360-01-04 11:17 G 19018947.90 19018947.97 19018948.05 0.3689 0.2482

Mars 47360-03-27 22:05 G 19019031.35 19019031.42 19019031.50 0.1893 0.1443

Mars 47363-01-01 23:46 G 19020041.32 19020041.49 19020041.66 0.1632 0.0094

Jupiter 47364-07-29 09:07 G 19020615.76 19020615.88 19020616.00 0.0518 0.0157

Moon 47364-10-24 01:12 G 19020702.46 19020702.55 19020702.65 0.2656 0.1365

Earth 47364-10-24 01:55 G 19020702.49 19020702.58 19020702.67 0.2659 0.1315 *

Jupiter 47364-10-26 12:43 G 19020704.97 19020705.03 19020705.10 0.0516 0.0437

Jupiter 47370-09-17 20:53 G 19022857.23 19022857.37 19022857.51 0.0508 0.0345

Saturn 47372-01-16 06:43 G 19023342.71 19023342.78 19023342.85 0.0300 0.0242

Saturn 47372-04-13 18:43 G 19023431.16 19023431.28 19023431.41 0.0300 0.0065

Mars 47372-05-24 00:14 G 19023471.43 19023471.51 19023471.59 0.1636 0.1438

Saturn 47372-07-11 06:58 G 19023519.67 19023519.79 19023519.91 0.0299 0.0113

Saturn 47372-10-07 18:43 G 19023608.25 19023608.28 19023608.32 0.0298 0.0287

Uranus 47373-11-06 15:22 G 19024003.14 19024003.14 19024003.14 0.0138 0.0138

Uranus 47374-02-02 23:17 G 19024091.35 19024091.47 19024091.60 0.0138 0.0108

Moon 47374-04-26 21:07 G 19024174.32 19024174.38 19024174.43 0.2678 0.2505

Uranus 47374-05-02 07:12 G 19024179.65 19024179.80 19024179.97 0.0138 0.0078

Uranus 47374-07-29 15:07 G 19024267.96 19024268.13 19024268.33 0.0138 0.0049

Uranus 47374-10-25 23:17 G 19024356.28 19024356.47 19024356.67 0.0137 0.0019

Uranus 47375-01-22 07:12 G 19024444.61 19024444.80 19024445.00 0.0137 0.0011

Uranus 47375-04-20 15:07 G 19024532.95 19024533.13 19024533.32 0.0137 0.0040

Uranus 47375-07-17 23:02 G 19024621.29 19024621.46 19024621.63 0.0137 0.0070

Uranus 47375-10-14 06:43 G 19024709.66 19024709.78 19024709.93 0.0137 0.0099

Uranus 47376-01-10 14:38 G 19024798.05 19024798.11 19024798.19 0.0137 0.0128

Jupiter 47376-05-17 13:41 G 19024925.97 19024926.07 19024926.17 0.0518 0.0308

Jupiter 47376-08-14 17:31 G 19025015.13 19025015.23 19025015.34 0.0516 0.0290

Moon 47377-10-26 18:29 G 19025453.16 19025453.27 19025453.37 0.2661 0.0237

Earth 47377-10-26 18:58 G 19025453.18 19025453.29 19025453.40 0.2658 0.0111 *

Mars 47380-12-14 04:48 G 19026597.63 19026597.70 19026597.77 0.1903 0.1495

Jupiter 47382-10-05 07:41 G 19027257.68 19027257.82 19027257.96 0.0509 0.0327

Earth 47387-04-30 05:31 G 19028925.57 19028925.73 19028925.90 0.2674 0.0307

Moon 47387-04-30 07:41 G 19028925.65 19028925.82 19028925.98 0.2674 0.0414 *

Saturn 47387-10-25 13:55 G 19029103.92 19029104.08 19029104.25 0.0263 0.0142

Saturn 47388-01-22 11:46 G 19029192.80 19029192.99 19029193.18 0.0263 0.0041

Jupiter 47388-03-05 18:14 G 19029236.20 19029236.26 19029236.32 0.0519 0.0460

Saturn 47388-04-20 09:22 G 19029281.80 19029281.89 19029281.99 0.0264 0.0226

Jupiter 47388-06-02 22:19 G 19029325.31 19029325.43 19029325.55 0.0517 0.0142

Mars 47390-05-06 13:26 G 19030027.95 19030028.06 19030028.17 0.1898 0.0096

Moon 47390-10-29 11:46 G 19030203.90 19030203.99 19030204.09 0.2663 0.1129

Earth 47390-10-29 12:00 G 19030203.91 19030204.00 19030204.10 0.2657 0.1105 *

Jupiter 47394-07-24 03:36 G 19031567.46 19031567.65 19031567.83 0.0508 0.0105

Venus 47397-03-23 23:46 G 19032541.34 19032541.49 19032541.65 0.3681 0.1106

Moon 47397-10-22 12:58 G 19032754.00 19032754.04 19032754.09 0.2654 0.2375

Earth 47397-10-22 13:26 G 19032754.01 19032754.06 19032754.11 0.2660 0.2298 *

Mars 47399-09-26 22:19 G 19033458.34 19033458.43 19033458.51 0.1893 0.1270

Venus 47399-12-27 11:31 G 19033549.93 19033549.98 19033550.02 0.3690 0.3259

Jupiter 47400-03-23 03:22 G 19033635.51 19033635.64 19033635.76 0.0518 0.0012

Saturn 47401-06-05 08:24 G 19034074.84 19034074.85 19034074.87 0.0300 0.0298

Saturn 47401-09-01 20:38 G 19034163.24 19034163.36 19034163.48 0.0300 0.0119

Saturn 47401-11-29 08:38 G 19034251.74 19034251.86 19034251.99 0.0299 0.0059

Saturn 47402-02-25 20:38 G 19034340.29 19034340.36 19034340.44 0.0298 0.0233

Mars 47402-07-04 00:14 G 19034468.34 19034468.51 19034468.68 0.1632 0.0305

Neptune 47402-11-15 12:58 G 19034603.02 19034603.04 19034603.10 0.0089 0.0085

Neptune 47403-02-11 14:24 G 19034691.05 19034691.10 19034691.17 0.0089 0.0077

Neptune 47403-05-10 15:50 G 19034779.08 19034779.16 19034779.24 0.0089 0.0069

Neptune 47403-08-06 17:02 G 19034867.12 19034867.21 19034867.31 0.0089 0.0062

Earth 47403-11-02 05:02 G 19034954.66 19034954.71 19034954.76 0.2656 0.2304

Moon 47403-11-02 05:31 G 19034954.67 19034954.73 19034954.78 0.2662 0.2297 *

Neptune 47403-11-02 18:14 G 19034955.17 19034955.26 19034955.37 0.0089 0.0054

Neptune 47404-01-29 19:41 G 19035043.21 19035043.32 19035043.43 0.0089 0.0046

Neptune 47404-04-26 20:53 G 19035131.26 19035131.37 19035131.49 0.0089 0.0039

Neptune 47404-07-23 22:05 G 19035219.30 19035219.42 19035219.55 0.0089 0.0031

Neptune 47404-10-19 23:31 G 19035307.35 19035307.48 19035307.61 0.0089 0.0023

Neptune 47405-01-16 00:43 G 19035395.40 19035395.53 19035395.66 0.0089 0.0016

Neptune 47405-04-14 01:55 G 19035483.45 19035483.58 19035483.72 0.0089 0.0008

Neptune 47405-07-11 03:22 G 19035571.51 19035571.64 19035571.77 0.0089 0.0002

Venus 47405-07-13 02:24 G 19035573.51 19035573.60 19035573.70 0.3689 0.1093

Neptune 47405-10-07 04:34 G 19035659.56 19035659.69 19035659.82 0.0089 0.0007

Neptune 47406-01-03 05:46 G 19035747.61 19035747.74 19035747.87 0.0089 0.0015

Neptune 47406-04-01 06:58 G 19035835.67 19035835.79 19035835.92 0.0089 0.0023

Jupiter 47406-05-12 22:34 G 19035877.26 19035877.44 19035877.62 0.0508 0.0131

Neptune 47406-06-28 08:10 G 19035923.72 19035923.84 19035923.97 0.0089 0.0031

Neptune 47406-09-24 09:36 G 19036011.78 19036011.90 19036012.02 0.0089 0.0038

Neptune 47406-12-21 10:34 G 19036099.84 19036099.94 19036100.06 0.0089 0.0046

Neptune 47407-03-19 12:00 G 19036187.90 19036188.00 19036188.11 0.0089 0.0053

Neptune 47407-06-15 13:12 G 19036275.96 19036276.05 19036276.15 0.0089 0.0061

Neptune 47407-09-11 14:24 G 19036364.03 19036364.10 19036364.19 0.0089 0.0069

Neptune 47407-12-08 15:50 G 19036452.09 19036452.16 19036452.22 0.0089 0.0076

Neptune 47408-03-05 16:48 G 19036540.17 19036540.20 19036540.25 0.0089 0.0084

Moon 47410-10-26 06:00 G 19037504.65 19037504.75 19037504.85 0.2657 0.1172

Earth 47410-10-26 06:43 G 19037504.68 19037504.78 19037504.87 0.2659 0.1082 *

Venus 47411-01-26 17:31 G 19037597.14 19037597.23 19037597.33 0.3689 0.1096

Mars 47411-11-24 00:58 G 19037898.43 19037898.54 19037898.65 0.1636 0.1214

Jupiter 47412-01-10 08:24 G 19037945.73 19037945.85 19037945.97 0.0518 0.0141

Jupiter 47412-04-08 12:00 G 19038034.95 19038035.00 19038035.06 0.0516 0.0453

Venus 47416-08-11 08:38 G 19039620.82 19039620.86 19039620.90 0.3689 0.3278

Saturn 47417-03-14 11:46 G 19039835.88 19039835.99 19039836.13 0.0262 0.0201

Uranus 47417-04-29 01:41 G 19039881.57 19039881.57 19039881.58 0.0140 0.0140

Saturn 47417-06-11 09:36 G 19039924.71 19039924.90 19039925.10 0.0262 0.0020

Uranus 47417-07-26 05:02 G 19039969.64 19039969.71 19039969.78 0.0140 0.0120

Saturn 47417-09-08 07:12 G 19040013.66 19040013.80 19040013.96 0.0263 0.0166

Uranus 47417-10-22 08:10 G 19040057.75 19040057.84 19040057.94 0.0140 0.0099

Uranus 47418-01-18 11:31 G 19040145.87 19040145.98 19040146.09 0.0140 0.0078

Jupiter 47418-02-28 18:58 G 19040187.16 19040187.29 19040187.43 0.0508 0.0342

Uranus 47418-04-16 14:53 G 19040234.00 19040234.12 19040234.23 0.0141 0.0058

Uranus 47418-07-13 18:00 G 19040322.13 19040322.25 19040322.38 0.0141 0.0037

Uranus 47418-10-09 21:22 G 19040410.26 19040410.39 19040410.52 0.0141 0.0016

Uranus 47419-01-06 00:29 G 19040498.40 19040498.52 19040498.66 0.0141 0.0007

Uranus 47419-04-04 03:50 G 19040586.53 19040586.66 19040586.79 0.0141 0.0026

Uranus 47419-07-01 07:12 G 19040674.68 19040674.80 19040674.92 0.0141 0.0047

Uranus 47419-09-27 10:19 G 19040762.82 19040762.93 19040763.05 0.0141 0.0068

Uranus 47419-12-24 13:41 G 19040850.98 19040851.07 19040851.18 0.0141 0.0089

Uranus 47420-03-21 17:02 G 19040939.13 19040939.21 19040939.29 0.0141 0.0110

Earth 47420-04-28 02:53 G 19040976.53 19040976.62 19040976.71 0.2673 0.2192

Moon 47420-04-28 04:19 G 19040976.58 19040976.68 19040976.78 0.2677 0.2097 *

Mars 47420-06-15 04:34 G 19041024.64 19041024.69 19041024.75 0.1903 0.1628

Uranus 47420-06-17 20:24 G 19041027.31 19041027.35 19041027.40 0.0141 0.0131

Moon 47423-10-28 23:02 G 19042255.36 19042255.46 19042255.57 0.2662 0.0131

Earth 47423-10-28 23:46 G 19042255.38 19042255.49 19042255.60 0.2658 0.0139 *

Jupiter 47423-10-29 12:58 G 19042255.94 19042256.04 19042256.14 0.0518 0.0293

Jupiter 47424-01-26 16:48 G 19042345.10 19042345.20 19042345.30 0.0516 0.0304

Mars 47429-11-05 13:26 G 19044454.95 19044455.06 19044455.17 0.1899 0.0270

Jupiter 47430-03-18 06:29 G 19044587.63 19044587.77 19044587.91 0.0509 0.0341

Saturn 47431-01-19 21:22 G 19044895.29 19044895.39 19044895.49 0.0300 0.0192

Saturn 47431-04-18 09:22 G 19044983.77 19044983.89 19044984.02 0.0300 0.0016

Saturn 47431-07-15 21:22 G 19045072.29 19045072.39 19045072.50 0.0299 0.0164

Earth 47433-05-01 12:29 G 19045727.87 19045728.02 19045728.18 0.2674 0.0848

Moon 47433-05-01 14:38 G 19045727.96 19045728.11 19045728.25 0.2675 0.1203 *

Jupiter 47435-08-17 17:31 G 19046566.17 19046566.23 19046566.30 0.0519 0.0443

Jupiter 47435-11-14 21:36 G 19046655.28 19046655.40 19046655.52 0.0517 0.0157

Moon 47436-10-30 16:48 G 19047006.10 19047006.20 19047006.29 0.2663 0.1286

Earth 47436-10-30 16:48 G 19047006.11 19047006.20 19047006.29 0.2657 0.1338 *

Mars 47439-03-28 22:19 G 19047885.33 19047885.43 19047885.52 0.1893 0.1105

Mars 47442-01-02 00:58 G 19048895.38 19048895.54 19048895.70 0.1632 0.0539

Jupiter 47442-01-04 02:38 G 19048897.43 19048897.61 19048897.80 0.0509 0.0122

Pluto 47442-11-04 04:48 G 19049201.68 19049201.70 19049201.75 0.0068 0.0066

Pluto 47443-01-31 05:31 G 19049289.66 19049289.73 19049289.82 0.0068 0.0055

Pluto 47443-04-29 06:00 G 19049377.66 19049377.75 19049377.86 0.0068 0.0045

Pluto 47443-07-26 06:43 G 19049465.67 19049465.78 19049465.90 0.0068 0.0034

Pluto 47443-10-22 07:26 G 19049553.68 19049553.81 19049553.93 0.0068 0.0024

Moon 47443-10-24 17:46 G 19049556.18 19049556.24 19049556.31 0.2654 0.2076

Earth 47443-10-24 18:14 G 19049556.19 19049556.26 19049556.33 0.2660 0.2059 *

Pluto 47444-01-18 07:55 G 19049641.70 19049641.83 19049641.96 0.0068 0.0013

Pluto 47444-04-15 08:24 G 19049729.72 19049729.85 19049729.99 0.0068 0.0003

Pluto 47444-07-12 08:53 G 19049817.74 19049817.87 19049818.01 0.0068 0.0009

Pluto 47444-10-08 09:36 G 19049905.77 19049905.90 19049906.03 0.0069 0.0019

Pluto 47445-01-04 10:05 G 19049993.80 19049993.92 19049994.04 0.0069 0.0030

Pluto 47445-04-02 10:34 G 19050081.84 19050081.94 19050082.05 0.0069 0.0041

Pluto 47445-06-29 11:02 G 19050169.88 19050169.96 19050170.06 0.0069 0.0052

Pluto 47445-09-25 11:31 G 19050257.94 19050257.98 19050258.05 0.0069 0.0063

Saturn 47446-08-01 09:50 G 19050567.90 19050567.91 19050567.93 0.0262 0.0261

Saturn 47446-10-29 07:26 G 19050656.63 19050656.81 19050657.00 0.0263 0.0080

Saturn 47447-01-26 05:17 G 19050745.54 19050745.72 19050745.89 0.0263 0.0104

Jupiter 47447-09-03 02:10 G 19050965.47 19050965.59 19050965.72 0.0518 0.0016

Earth 47449-11-02 09:50 G 19051756.88 19051756.91 19051756.94 0.2656 0.2530

Moon 47449-11-02 10:05 G 19051756.92 19051756.92 19051756.93 0.2662 0.2643 *

Mars 47451-05-25 01:41 G 19052325.43 19052325.57 19052325.70 0.1636 0.0986

Jupiter 47453-10-22 22:48 G 19053207.26 19053207.45 19053207.63 0.0508 0.0099

Venus 47456-08-03 08:38 G 19054222.79 19054222.86 19054222.94 0.3690 0.2472

Moon 47456-10-26 10:48 G 19054306.85 19054306.95 19054307.05 0.2659 0.0950

Earth 47456-10-26 11:17 G 19054306.87 19054306.97 19054307.08 0.2658 0.0845 *

Uranus 47457-11-27 21:36 G 19054704.36 19054704.40 19054704.46 0.0138 0.0133

Uranus 47458-02-24 05:46 G 19054792.62 19054792.74 19054792.88 0.0138 0.0103

Uranus 47458-05-23 13:41 G 19054880.91 19054881.07 19054881.25 0.0138 0.0074

Uranus 47458-08-19 21:50 G 19054969.22 19054969.41 19054969.60 0.0138 0.0044

Uranus 47458-11-16 05:46 G 19055057.55 19055057.74 19055057.94 0.0137 0.0014

Uranus 47459-02-12 13:41 G 19055145.88 19055146.07 19055146.27 0.0137 0.0016

Uranus 47459-05-11 21:36 G 19055234.22 19055234.40 19055234.59 0.0137 0.0045

Jupiter 47459-06-22 07:26 G 19055275.68 19055275.81 19055275.93 0.0518 0.0135

Uranus 47459-08-08 05:31 G 19055322.57 19055322.73 19055322.90 0.0137 0.0075

Jupiter 47459-09-19 11:02 G 19055364.91 19055364.96 19055365.02 0.0516 0.0460

Uranus 47459-11-04 13:12 G 19055410.94 19055411.05 19055411.19 0.0137 0.0104

Mars 47459-12-15 04:34 G 19055451.66 19055451.69 19055451.73 0.1903 0.1807

Uranus 47460-01-31 20:53 G 19055499.35 19055499.37 19055499.44 0.0137 0.0134

Saturn 47460-06-07 22:48 G 19055627.38 19055627.45 19055627.52 0.0300 0.0252

Saturn 47460-09-04 11:02 G 19055715.83 19055715.96 19055716.08 0.0300 0.0073

Saturn 47460-12-01 23:02 G 19055804.34 19055804.46 19055804.58 0.0299 0.0105

Saturn 47461-02-28 11:02 G 19055892.92 19055892.96 19055893.00 0.0298 0.0279

Venus 47462-02-16 23:46 G 19056246.39 19056246.49 19056246.59 0.3689 0.0293

Jupiter 47465-08-10 17:31 G 19057517.09 19057517.23 19057517.37 0.0508 0.0335

Earth 47466-04-29 09:50 G 19057778.78 19057778.91 19057779.04 0.2673 0.1644

Moon 47466-04-29 11:31 G 19057778.85 19057778.98 19057779.12 0.2676 0.1419 *

Venus 47467-09-02 14:53 G 19058270.03 19058270.12 19058270.20 0.3689 0.1883

Mars 47469-05-06 13:26 G 19058881.95 19058882.06 19058882.17 0.1898 0.0427

Moon 47469-10-29 03:50 G 19059057.56 19059057.66 19059057.77 0.2662 0.0283

Earth 47469-10-29 04:19 G 19059057.58 19059057.68 19059057.79 0.2658 0.0386 *

Jupiter 47471-04-10 12:29 G 19059585.91 19059586.02 19059586.12 0.0518 0.0274

Jupiter 47471-07-08 16:19 G 19059675.08 19059675.18 19059675.28 0.0516 0.0322

Saturn 47476-03-17 05:31 G 19061388.57 19061388.73 19061388.89 0.0262 0.0139

Saturn 47476-06-14 03:07 G 19061477.44 19061477.63 19061477.82 0.0262 0.0043

Saturn 47476-09-11 00:43 G 19061566.44 19061566.53 19061566.63 0.0263 0.0227

Jupiter 47477-08-28 04:48 G 19061917.57 19061917.70 19061917.84 0.0510 0.0348

Mars 47478-09-26 22:05 G 19062312.32 19062312.42 19062312.52 0.1893 0.0957

Earth 47479-05-02 19:41 G 19062530.18 19062530.32 19062530.46 0.2674 0.1400

Moon 47479-05-02 21:36 G 19062530.26 19062530.40 19062530.53 0.2674 0.1519 *

Mars 47481-07-03 01:41 G 19063322.42 19063322.57 19063322.72 0.1632 0.0772

Moon 47482-10-31 21:36 G 19063808.31 19063808.40 19063808.48 0.2664 0.1621

Earth 47482-10-31 21:36 G 19063808.31 19063808.40 19063808.48 0.2657 0.1570 *

Jupiter 47483-01-27 17:02 G 19063896.14 19063896.21 19063896.28 0.0519 0.0425

Jupiter 47483-04-26 21:07 G 19063985.26 19063985.38 19063985.49 0.0517 0.0175

Neptune 47487-04-16 04:05 G 19065435.60 19065435.67 19065435.78 0.0089 0.0079

Neptune 47487-07-13 08:10 G 19065523.72 19065523.84 19065523.98 0.0089 0.0067

Neptune 47487-10-09 11:46 G 19065611.85 19065611.99 19065612.16 0.0089 0.0056

Neptune 47488-01-05 15:50 G 19065699.99 19065700.16 19065700.33 0.0089 0.0044

Neptune 47488-04-02 19:26 G 19065788.13 19065788.31 19065788.50 0.0089 0.0033

Neptune 47488-06-29 23:17 G 19065876.28 19065876.47 19065876.67 0.0089 0.0021

Neptune 47488-09-26 03:07 G 19065964.44 19065964.63 19065964.83 0.0089 0.0009

Neptune 47488-12-23 06:58 G 19066052.59 19066052.79 19066052.99 0.0089 0.0002

Neptune 47489-03-21 10:48 G 19066140.75 19066140.95 19066141.14 0.0089 0.0014

Jupiter 47489-06-16 01:41 G 19066227.39 19066227.57 19066227.75 0.0509 0.0137

Neptune 47489-06-17 14:24 G 19066228.92 19066229.10 19066229.30 0.0089 0.0025

Neptune 47489-09-13 18:14 G 19066317.08 19066317.26 19066317.44 0.0089 0.0037

Moon 47489-10-24 22:34 G 19066358.37 19066358.44 19066358.51 0.2655 0.1929

Earth 47489-10-24 23:02 G 19066358.38 19066358.46 19066358.54 0.2659 0.1822 *

Neptune 47489-12-10 21:50 G 19066405.25 19066405.41 19066405.59 0.0089 0.0049

Saturn 47490-01-22 11:31 G 19066447.87 19066447.98 19066448.09 0.0300 0.0148

Neptune 47490-03-09 01:41 G 19066493.43 19066493.57 19066493.72 0.0089 0.0060

Saturn 47490-04-20 23:31 G 19066536.36 19066536.48 19066536.61 0.0300 0.0032

Neptune 47490-06-05 05:17 G 19066581.62 19066581.72 19066581.85 0.0089 0.0072

Saturn 47490-07-18 11:31 G 19066624.89 19066624.98 19066625.08 0.0299 0.0208

Neptune 47490-09-01 09:22 G 19066669.83 19066669.89 19066669.96 0.0089 0.0083

Mars 47490-11-23 02:24 G 19066752.45 19066752.60 19066752.75 0.1636 0.0749

Jupiter 47495-02-13 01:41 G 19068295.45 19068295.57 19068295.70 0.0517 0.0028

Jupiter 47501-04-04 22:05 G 19070537.23 19070537.42 19070537.60 0.0508 0.0080

Uranus 47501-05-20 08:38 G 19070582.84 19070582.86 19070582.88 0.0140 0.0137

Uranus 47501-08-16 11:46 G 19070670.92 19070670.99 19070671.06 0.0140 0.0117

Uranus 47501-11-12 15:07 G 19070759.04 19070759.13 19070759.22 0.0140 0.0096

Uranus 47502-02-08 18:14 G 19070847.16 19070847.26 19070847.37 0.0140 0.0076

Uranus 47502-05-07 21:36 G 19070935.28 19070935.40 19070935.52 0.0140 0.0055

Uranus 47502-08-04 00:43 G 19071023.41 19071023.53 19071023.66 0.0141 0.0035

Moon 47502-10-28 15:22 G 19071109.04 19071109.14 19071109.25 0.2660 0.0666

Earth 47502-10-28 16:05 G 19071109.07 19071109.17 19071109.28 0.2658 0.0605 *

Uranus 47502-10-31 04:05 G 19071111.54 19071111.67 19071111.80 0.0141 0.0014

Uranus 47503-01-27 07:26 G 19071199.68 19071199.81 19071199.94 0.0141 0.0007

Uranus 47503-04-25 10:34 G 19071287.82 19071287.94 19071288.07 0.0141 0.0029

Uranus 47503-07-22 13:55 G 19071375.96 19071376.08 19071376.20 0.0141 0.0049

Uranus 47503-10-18 17:17 G 19071464.11 19071464.22 19071464.33 0.0141 0.0070

Uranus 47504-01-14 20:38 G 19071552.26 19071552.36 19071552.46 0.0141 0.0092

Uranus 47504-04-11 23:46 G 19071640.42 19071640.49 19071640.57 0.0141 0.0113

Uranus 47504-07-09 02:53 G 19071728.60 19071728.62 19071728.67 0.0141 0.0135

Venus 47504-11-20 17:31 G 19071863.09 19071863.23 19071863.37 0.3681 0.1849

Saturn 47505-08-05 03:07 G 19072120.51 19072120.63 19072120.76 0.0262 0.0202

Saturn 47505-11-02 00:43 G 19072209.34 19072209.53 19072209.73 0.0263 0.0020

Saturn 47506-01-29 22:19 G 19072298.29 19072298.43 19072298.59 0.0263 0.0164

Jupiter 47506-12-03 06:29 G 19072605.64 19072605.77 19072605.89 0.0518 0.0125

Jupiter 47507-03-02 10:19 G 19072694.88 19072694.93 19072694.97 0.0516 0.0470

Mars 47508-11-05 13:12 G 19073308.95 19073309.05 19073309.16 0.1898 0.0590

Earth 47512-04-30 16:48 G 19074581.05 19074581.20 19074581.35 0.2673 0.1102

Moon 47512-04-30 18:43 G 19074581.13 19074581.28 19074581.43 0.2676 0.0882 *

Jupiter 47513-01-21 18:14 G 19074847.10 19074847.26 19074847.41 0.0508 0.0298

Venus 47513-03-11 06:00 G 19074895.66 19074895.75 19074895.84 0.3690 0.1676

Moon 47515-10-31 08:53 G 19075859.76 19075859.87 19075859.97 0.2662 0.0564

Earth 47515-10-31 09:07 G 19075859.78 19075859.88 19075859.99 0.2657 0.0608 *

Mars 47518-03-28 22:05 G 19076739.32 19076739.42 19076739.52 0.1893 0.0782

Jupiter 47518-09-21 11:31 G 19076915.87 19076915.98 19076916.09 0.0518 0.0265

Venus 47518-09-24 21:07 G 19076919.28 19076919.38 19076919.48 0.3689 0.0515

Jupiter 47518-12-19 15:22 G 19077005.05 19077005.14 19077005.24 0.0516 0.0332

Saturn 47519-06-12 12:43 G 19077179.94 19077180.03 19077180.12 0.0300 0.0210

Saturn 47519-09-09 00:58 G 19077268.41 19077268.54 19077268.67 0.0300 0.0031

Saturn 47519-12-06 12:58 G 19077356.93 19077357.04 19077357.15 0.0299 0.0146

Mars 47521-01-02 02:24 G 19077749.47 19077749.60 19077749.73 0.1632 0.0995

Venus 47524-04-09 12:00 G 19078942.94 19078943.00 19078943.07 0.3689 0.2691

Jupiter 47525-02-08 03:36 G 19079247.51 19079247.65 19079247.78 0.0510 0.0357

Earth 47525-05-04 02:38 G 19079332.50 19079332.61 19079332.72 0.2675 0.1952

Moon 47525-05-04 04:19 G 19079332.60 19079332.68 19079332.77 0.2673 0.2246 *

Moon 47528-11-02 02:24 G 19080610.52 19080610.60 19080610.68 0.2664 0.1791

Earth 47528-11-02 02:10 G 19080610.52 19080610.59 19080610.67 0.2656 0.1807 *

Pluto 47529-08-27 04:48 G 19080908.58 19080908.70 19080908.83 0.0076 0.0058

Pluto 47529-11-23 06:58 G 19080996.64 19080996.79 19080996.97 0.0076 0.0038

Pluto 47530-02-19 09:50 G 19081084.72 19081084.91 19081085.10 0.0076 0.0017

Pluto 47530-05-18 12:14 G 19081172.82 19081173.01 19081173.20 0.0075 0.0004

Mars 47530-05-25 02:53 G 19081179.46 19081179.62 19081179.78 0.1636 0.0532

Jupiter 47530-07-10 16:34 G 19081226.11 19081226.19 19081226.27 0.0519 0.0405

Pluto 47530-08-14 14:24 G 19081260.93 19081261.10 19081261.29 0.0075 0.0024

Jupiter 47530-10-07 20:38 G 19081315.24 19081315.36 19081315.47 0.0517 0.0195

Pluto 47530-11-10 16:48 G 19081349.05 19081349.20 19081349.36 0.0075 0.0044

Pluto 47531-02-06 19:12 G 19081437.21 19081437.30 19081437.41 0.0075 0.0064

Saturn 47534-12-23 01:12 G 19082852.54 19082852.55 19082852.58 0.0261 0.0259

Saturn 47535-03-21 22:48 G 19082941.27 19082941.45 19082941.64 0.0262 0.0079

Saturn 47535-06-18 20:24 G 19083030.18 19083030.35 19083030.53 0.0262 0.0103

Moon 47535-10-27 03:07 G 19083160.55 19083160.63 19083160.72 0.2657 0.1600

Earth 47535-10-27 03:50 G 19083160.57 19083160.66 19083160.74 0.2659 0.1585 *

Jupiter 47536-11-27 00:00 G 19083557.32 19083557.50 19083557.68 0.0509 0.0144

Uranus 47541-12-19 03:36 G 19085405.60 19085405.65 19085405.72 0.0138 0.0130

Uranus 47542-03-17 11:46 G 19085493.86 19085493.99 19085494.13 0.0138 0.0100

Uranus 47542-06-13 19:26 G 19085582.16 19085582.31 19085582.49 0.0138 0.0071

Jupiter 47542-07-27 01:12 G 19085625.43 19085625.55 19085625.68 0.0517 0.0046

Uranus 47542-09-10 03:36 G 19085670.47 19085670.65 19085670.85 0.0138 0.0041

Uranus 47542-12-07 11:46 G 19085758.79 19085758.99 19085759.19 0.0138 0.0011

Uranus 47543-03-05 19:41 G 19085847.12 19085847.32 19085847.52 0.0137 0.0019

Uranus 47543-06-02 03:36 G 19085935.47 19085935.65 19085935.83 0.0137 0.0048

Uranus 47543-08-29 11:31 G 19086023.82 19086023.98 19086024.14 0.0137 0.0078

Uranus 47543-11-25 19:12 G 19086112.19 19086112.30 19086112.43 0.0137 0.0107

Uranus 47544-02-22 03:07 G 19086200.62 19086200.63 19086200.66 0.0137 0.0136

Mars 47548-05-06 13:12 G 19087735.95 19087736.05 19087736.16 0.1898 0.0756

Jupiter 47548-09-14 20:53 G 19087867.18 19087867.37 19087867.56 0.0509 0.0066

Moon 47548-10-28 20:10 G 19087911.23 19087911.34 19087911.45 0.2660 0.0501

Earth 47548-10-28 20:53 G 19087911.26 19087911.37 19087911.47 0.2658 0.0372 *

Saturn 47548-10-29 12:58 G 19087912.01 19087912.04 19087912.08 0.0301 0.0288

Saturn 47549-01-26 01:12 G 19088000.43 19088000.55 19088000.67 0.0300 0.0108

Saturn 47549-04-24 13:26 G 19088088.93 19088089.06 19088089.18 0.0300 0.0071

Saturn 47549-07-22 01:26 G 19088177.49 19088177.56 19088177.63 0.0299 0.0247

Jupiter 47554-05-15 06:00 G 19089935.62 19089935.75 19089935.87 0.0518 0.0104

Jupiter 47554-08-12 09:36 G 19090024.87 19090024.90 19090024.94 0.0515 0.0489

Mars 47557-09-26 22:05 G 19091166.31 19091166.42 19091166.53 0.1893 0.0622

Earth 47558-05-01 23:46 G 19091383.33 19091383.49 19091383.65 0.2673 0.0558

Moon 47558-05-02 01:41 G 19091383.41 19091383.57 19091383.73 0.2676 0.0354 *

Mars 47560-07-03 03:07 G 19092176.52 19092176.63 19092176.74 0.1632 0.1222

Jupiter 47560-07-03 17:17 G 19092177.07 19092177.22 19092177.38 0.0508 0.0280

Venus 47561-06-27 20:24 G 19092536.20 19092536.35 19092536.51 0.3681 0.0967

Moon 47561-10-31 13:41 G 19092661.97 19092662.07 19092662.17 0.2664 0.0827

Earth 47561-10-31 13:55 G 19092661.98 19092662.08 19092662.18 0.2657 0.0838 *

Venus 47564-04-01 12:14 G 19093544.95 19093545.01 19093545.06 0.3690 0.3061

Saturn 47564-08-07 20:24 G 19093673.19 19093673.35 19093673.52 0.0262 0.0142

Saturn 47564-11-04 18:00 G 19093762.06 19093762.25 19093762.44 0.0263 0.0040

Saturn 47565-02-01 15:22 G 19093851.06 19093851.14 19093851.26 0.0263 0.0225

Jupiter 47566-03-03 10:34 G 19094245.83 19094245.94 19094246.05 0.0518 0.0255

Jupiter 47566-05-31 14:24 G 19094335.01 19094335.10 19094335.19 0.0516 0.0342

Neptune 47567-05-17 11:46 G 19094685.99 19094685.99 19094686.01 0.0089 0.0089

Neptune 47567-08-13 13:12 G 19094774.00 19094774.05 19094774.11 0.0089 0.0081

Neptune 47567-11-09 14:24 G 19094862.04 19094862.10 19094862.18 0.0089 0.0073

Neptune 47568-02-05 15:36 G 19094950.08 19094950.15 19094950.25 0.0089 0.0066

Neptune 47568-05-03 17:02 G 19095038.12 19095038.21 19095038.31 0.0089 0.0058

Neptune 47568-07-30 18:14 G 19095126.16 19095126.26 19095126.38 0.0089 0.0050

Moon 47568-10-24 15:07 G 19095212.10 19095212.13 19095212.16 0.2654 0.2538

Earth 47568-10-24 15:22 G 19095212.11 19095212.14 19095212.16 0.2660 0.2565 *

Neptune 47568-10-26 19:41 G 19095214.21 19095214.32 19095214.44 0.0089 0.0042

Neptune 47569-01-22 20:53 G 19095302.25 19095302.37 19095302.49 0.0089 0.0035

Neptune 47569-04-20 22:05 G 19095390.30 19095390.42 19095390.55 0.0089 0.0027

Neptune 47569-07-17 23:31 G 19095478.35 19095478.48 19095478.61 0.0089 0.0019

Neptune 47569-10-14 00:43 G 19095566.40 19095566.53 19095566.66 0.0089 0.0012

Venus 47569-10-16 03:22 G 19095568.54 19095568.64 19095568.73 0.3689 0.0898

Mars 47569-11-23 03:50 G 19095606.49 19095606.66 19095606.82 0.1636 0.0295

Neptune 47570-01-10 01:55 G 19095654.45 19095654.58 19095654.71 0.0089 0.0004

Neptune 47570-04-08 03:07 G 19095742.50 19095742.63 19095742.77 0.0089 0.0005

Neptune 47570-07-05 04:34 G 19095830.56 19095830.69 19095830.82 0.0089 0.0011

Neptune 47570-10-01 05:46 G 19095918.61 19095918.74 19095918.87 0.0089 0.0019

Neptune 47570-12-28 06:58 G 19096006.67 19096006.79 19096006.92 0.0089 0.0027

Neptune 47571-03-26 08:10 G 19096094.72 19096094.84 19096094.96 0.0089 0.0034

Earth 47571-05-05 09:36 G 19096134.85 19096134.90 19096134.96 0.2675 0.2501

Moon 47571-05-05 11:17 G 19096134.96 19096134.97 19096134.99 0.2672 0.2651 *

Neptune 47571-06-22 09:22 G 19096182.78 19096182.89 19096183.01 0.0089 0.0042

Neptune 47571-09-18 10:34 G 19096270.84 19096270.94 19096271.06 0.0089 0.0050

Neptune 47571-12-15 12:00 G 19096358.90 19096359.00 19096359.10 0.0089 0.0057

Neptune 47572-03-12 13:12 G 19096446.97 19096447.05 19096447.14 0.0089 0.0065

Jupiter 47572-04-21 13:26 G 19096487.03 19096487.06 19096487.10 0.0507 0.0496

Neptune 47572-06-08 14:10 G 19096535.03 19096535.09 19096535.18 0.0089 0.0073

Jupiter 47572-07-21 04:05 G 19096577.56 19096577.67 19096577.79 0.0509 0.0395

Neptune 47572-09-04 15:36 G 19096623.10 19096623.15 19096623.21 0.0089 0.0080

Neptune 47572-12-01 16:48 G 19096711.19 19096711.20 19096711.23 0.0089 0.0088

Earth 47574-11-03 06:58 G 19097412.72 19097412.79 19097412.86 0.2656 0.2037

Moon 47574-11-03 07:12 G 19097412.73 19097412.80 19097412.86 0.2663 0.2078 *

Venus 47575-05-01 18:14 G 19097592.17 19097592.26 19097592.36 0.3689 0.1295

Jupiter 47577-12-20 15:36 G 19098556.07 19098556.15 19098556.23 0.0519 0.0397

Jupiter 47578-03-19 19:26 G 19098645.20 19098645.31 19098645.43 0.0517 0.0205

Saturn 47578-06-15 02:38 G 19098732.51 19098732.61 19098732.72 0.0300 0.0169

Saturn 47578-09-11 14:53 G 19098820.99 19098821.12 19098821.25 0.0299 0.0010

Saturn 47578-12-09 02:53 G 19098909.52 19098909.62 19098909.72 0.0299 0.0186

Venus 47580-11-14 09:22 G 19099615.86 19099615.89 19099615.92 0.3688 0.3497

Moon 47581-10-27 07:55 G 19099962.74 19099962.83 19099962.91 0.2658 0.1493

Earth 47581-10-27 08:24 G 19099962.76 19099962.85 19099962.94 0.2659 0.1345 *

Jupiter 47584-05-08 22:48 G 19100887.27 19100887.45 19100887.63 0.0509 0.0153

Uranus 47585-06-09 15:22 G 19101284.11 19101284.14 19101284.19 0.0140 0.0134

Uranus 47585-09-05 18:43 G 19101372.21 19101372.28 19101372.36 0.0140 0.0113

Uranus 47585-12-02 22:05 G 19101460.32 19101460.42 19101460.52 0.0140 0.0093

Uranus 47586-03-01 01:12 G 19101548.45 19101548.55 19101548.67 0.0140 0.0072

Uranus 47586-05-28 04:34 G 19101636.57 19101636.69 19101636.81 0.0140 0.0051

Uranus 47586-08-24 07:55 G 19101724.70 19101724.83 19101724.95 0.0141 0.0031

Uranus 47586-11-20 11:02 G 19101812.83 19101812.96 19101813.09 0.0141 0.0010

Uranus 47587-02-16 14:24 G 19101900.97 19101901.10 19101901.23 0.0141 0.0011

Uranus 47587-05-15 17:46 G 19101989.11 19101989.24 19101989.36 0.0141 0.0032

Uranus 47587-08-11 20:53 G 19102077.25 19102077.37 19102077.49 0.0141 0.0053

Mars 47587-11-05 13:12 G 19102162.95 19102163.05 19102163.15 0.1898 0.0908

Uranus 47587-11-08 00:14 G 19102165.40 19102165.51 19102165.62 0.0141 0.0074

Uranus 47588-02-04 03:36 G 19102253.55 19102253.65 19102253.74 0.0141 0.0095

Uranus 47588-05-02 06:58 G 19102341.72 19102341.79 19102341.86 0.0141 0.0117

Uranus 47588-07-29 09:50 G 19102429.90 19102429.91 19102429.95 0.0141 0.0139

Jupiter 47590-01-06 00:43 G 19102955.41 19102955.53 19102955.66 0.0517 0.0065

Saturn 47593-12-25 18:43 G 19104405.16 19104405.28 19104405.41 0.0261 0.0199

Saturn 47594-03-24 16:19 G 19104493.99 19104494.18 19104494.37 0.0262 0.0018

Saturn 47594-06-21 13:55 G 19104582.93 19104583.08 19104583.23 0.0263 0.0165

Moon 47594-10-30 00:58 G 19104713.43 19104713.54 19104713.65 0.2660 0.0164

Earth 47594-10-30 01:41 G 19104713.46 19104713.57 19104713.67 0.2658 0.0172 *

Jupiter 47596-02-25 19:12 G 19105197.11 19105197.30 19105197.49 0.0509 0.0060

Mars 47597-03-27 21:50 G 19105593.30 19105593.41 19105593.53 0.1893 0.0476

Mars 47600-01-02 03:50 G 19106603.59 19106603.66 19106603.74 0.1632 0.1462

Jupiter 47601-10-25 05:31 G 19107265.60 19107265.73 19107265.85 0.0518 0.0086

Jupiter 47602-01-22 09:07 G 19107354.87 19107354.88 19107354.90 0.0515 0.0508

Earth 47604-05-02 06:43 G 19108185.62 19108185.78 19108185.95 0.2674 0.0030

Moon 47604-05-02 08:38 G 19108185.70 19108185.86 19108186.02 0.2675 0.0251 *

Mars 47606-08-18 06:43 G 19109023.75 19109023.78 19109023.81 0.1888 0.1811

Moon 47607-11-01 18:29 G 19109464.17 19109464.27 19109464.37 0.2664 0.1014

Earth 47607-11-01 18:43 G 19109464.18 19109464.28 19109464.38 0.2657 0.1076 *

Saturn 47607-11-02 03:07 G 19109464.56 19109464.63 19109464.71 0.0301 0.0245

Jupiter 47607-12-14 16:05 G 19109507.01 19109507.17 19109507.33 0.0508 0.0268

Saturn 47608-01-29 15:22 G 19109553.02 19109553.14 19109553.27 0.0300 0.0065

Saturn 47608-04-27 03:22 G 19109641.53 19109641.64 19109641.76 0.0300 0.0114

Saturn 47608-07-24 15:36 G 19109730.12 19109730.15 19109730.17 0.0299 0.0289

Mars 47609-05-24 04:34 G 19110033.52 19110033.69 19110033.86 0.1636 0.0061

Jupiter 47613-08-13 10:05 G 19111575.81 19111575.92 19111576.03 0.0518 0.0234

Jupiter 47613-11-10 13:55 G 19111664.99 19111665.08 19111665.17 0.0516 0.0361

Moon 47614-10-25 19:41 G 19112014.28 19112014.32 19112014.37 0.2654 0.2399

Earth 47614-10-25 20:10 G 19112014.29 19112014.34 19112014.39 0.2660 0.2326 *

Mars 47618-10-14 05:02 G 19113463.68 19113463.71 19113463.75 0.1641 0.1596

Jupiter 47619-10-02 12:43 G 19113816.97 19113817.03 19113817.09 0.0507 0.0480

Jupiter 47620-01-01 03:22 G 19113907.53 19113907.64 19113907.75 0.0509 0.0412

Earth 47620-11-03 11:46 G 19114214.93 19114214.99 19114215.04 0.2656 0.2266

Moon 47620-11-03 12:00 G 19114214.95 19114215.00 19114215.05 0.2662 0.2324 *

Venus 47620-11-06 09:36 G 19114217.82 19114217.90 19114217.97 0.3689 0.2267

Saturn 47623-05-14 16:19 G 19115137.18 19115137.18 19115137.21 0.0262 0.0261

Saturn 47623-08-11 13:55 G 19115225.90 19115226.08 19115226.27 0.0262 0.0080

Saturn 47623-11-08 11:31 G 19115314.81 19115314.98 19115315.16 0.0263 0.0103

Jupiter 47625-06-01 14:38 G 19115886.03 19115886.11 19115886.19 0.0519 0.0388

Jupiter 47625-08-29 18:29 G 19115975.16 19115975.27 19115975.39 0.0517 0.0213

Uranus 47626-01-08 09:07 G 19116106.82 19116106.88 19116106.96 0.0138 0.0128

Uranus 47626-04-06 17:17 G 19116195.09 19116195.22 19116195.36 0.0138 0.0098

Venus 47626-05-23 00:29 G 19116241.42 19116241.52 19116241.62 0.3689 0.0131

Uranus 47626-07-04 01:26 G 19116283.39 19116283.56 19116283.73 0.0138 0.0068

Uranus 47626-09-30 09:07 G 19116371.70 19116371.88 19116372.08 0.0138 0.0039

Uranus 47626-12-27 17:17 G 19116460.03 19116460.22 19116460.42 0.0138 0.0009

Uranus 47627-03-26 01:12 G 19116548.36 19116548.55 19116548.75 0.0137 0.0021

Mars 47627-05-06 13:12 G 19116589.96 19116590.05 19116590.14 0.1898 0.1065

Uranus 47627-06-22 09:07 G 19116636.70 19116636.88 19116637.07 0.0137 0.0051

Uranus 47627-09-18 16:48 G 19116725.06 19116725.20 19116725.37 0.0137 0.0081

Moon 47627-10-28 12:29 G 19116764.92 19116765.02 19116765.12 0.2658 0.1141

Earth 47627-10-28 13:12 G 19116764.95 19116765.05 19116765.15 0.2659 0.1106 *

Uranus 47627-12-16 00:43 G 19116813.43 19116813.53 19116813.66 0.0137 0.0110

Jupiter 47631-10-19 23:17 G 19118217.29 19118217.47 19118217.64 0.0509 0.0190

Venus 47631-12-06 15:36 G 19118265.07 19118265.15 19118265.23 0.3689 0.2102

Mars 47636-09-25 21:50 G 19120020.30 19120020.41 19120020.53 0.1893 0.0307

Earth 47637-04-30 04:19 G 19120236.62 19120236.68 19120236.73 0.2673 0.2479

Moon 47637-04-30 05:46 G 19120236.65 19120236.74 19120236.84 0.2677 0.2174 *

Saturn 47637-06-17 16:48 G 19120285.09 19120285.20 19120285.32 0.0300 0.0126

Jupiter 47637-06-17 23:46 G 19120285.36 19120285.49 19120285.61 0.0517 0.0073

Saturn 47637-09-14 05:02 G 19120373.58 19120373.71 19120373.83 0.0299 0.0054

Saturn 47637-12-11 17:02 G 19120462.13 19120462.21 19120462.29 0.0299 0.0229

Moon 47640-10-30 05:46 G 19121515.63 19121515.74 19121515.85 0.2662 0.0055

Earth 47640-10-30 06:14 G 19121515.66 19121515.76 19121515.87 0.2658 0.0130 *

Jupiter 47643-08-07 17:46 G 19122527.05 19122527.24 19122527.43 0.0508 0.0052

Mars 47646-02-16 06:43 G 19123450.73 19123450.78 19123450.83 0.1887 0.1662

Mars 47648-11-22 05:02 G 19124460.55 19124460.71 19124460.88 0.1636 0.0169

Jupiter 47649-04-06 04:48 G 19124595.58 19124595.70 19124595.83 0.0518 0.0067

Earth 47650-05-03 13:41 G 19124987.91 19124988.07 19124988.23 0.2674 0.0542

Moon 47650-05-03 15:36 G 19124987.99 19124988.15 19124988.31 0.2673 0.0670 *

Neptune 47651-10-15 23:31 G 19125518.43 19125518.48 19125518.55 0.0089 0.0084

Neptune 47652-01-12 03:07 G 19125606.53 19125606.63 19125606.76 0.0089 0.0073

Neptune 47652-04-09 07:12 G 19125694.66 19125694.80 19125694.94 0.0089 0.0061

Neptune 47652-07-06 10:34 G 19125782.79 19125782.94 19125783.12 0.0089 0.0050

Neptune 47652-10-02 14:38 G 19125870.94 19125871.11 19125871.29 0.0089 0.0038

Saturn 47652-12-28 12:43 G 19125957.87 19125958.03 19125958.20 0.0262 0.0134

Neptune 47652-12-29 18:14 G 19125959.08 19125959.26 19125959.46 0.0089 0.0027

Saturn 47653-03-27 10:19 G 19126046.74 19126046.93 19126047.12 0.0262 0.0048

Neptune 47653-03-27 22:19 G 19126047.23 19126047.43 19126047.63 0.0089 0.0015

Neptune 47653-06-24 02:10 G 19126135.39 19126135.59 19126135.79 0.0089 0.0004

Saturn 47653-06-24 07:55 G 19126135.74 19126135.83 19126135.92 0.0263 0.0231 *

Neptune 47653-09-20 05:46 G 19126223.55 19126223.74 19126223.94 0.0089 0.0008

Moon 47653-11-01 23:17 G 19126266.38 19126266.47 19126266.56 0.2664 0.1337

Earth 47653-11-01 23:31 G 19126266.38 19126266.48 19126266.57 0.2657 0.1311 *

Neptune 47653-12-17 09:36 G 19126311.71 19126311.90 19126312.09 0.0089 0.0020

Neptune 47654-03-15 13:12 G 19126399.87 19126400.05 19126400.24 0.0089 0.0031

Neptune 47654-06-11 17:02 G 19126488.04 19126488.21 19126488.39 0.0089 0.0043

Neptune 47654-09-07 20:38 G 19126576.22 19126576.36 19126576.53 0.0089 0.0055

Neptune 47654-12-05 00:29 G 19126664.40 19126664.52 19126664.66 0.0089 0.0066

Neptune 47655-03-03 04:05 G 19126752.59 19126752.67 19126752.78 0.0089 0.0078

Jupiter 47655-05-26 14:10 G 19126836.93 19126837.09 19126837.25 0.0508 0.0266

Mars 47658-04-14 05:46 G 19127890.65 19127890.74 19127890.84 0.1641 0.1358

Moon 47660-10-26 00:14 G 19128816.45 19128816.51 19128816.57 0.2656 0.2140

Earth 47660-10-26 00:43 G 19128816.47 19128816.53 19128816.60 0.2660 0.2091 *

Jupiter 47661-01-23 09:22 G 19128905.78 19128905.89 19128906.01 0.0518 0.0218

Jupiter 47661-04-22 13:12 G 19128994.97 19128995.05 19128995.14 0.0516 0.0378

Mars 47666-11-04 13:12 G 19131016.97 19131017.05 19131017.13 0.1898 0.1241

Saturn 47666-11-04 17:31 G 19131017.13 19131017.23 19131017.33 0.0301 0.0198 *

Earth 47666-11-04 16:19 G 19131017.15 19131017.18 19131017.22 0.2656 0.2501 *

Moon 47666-11-04 16:48 G 19131017.17 19131017.20 19131017.23 0.2661 0.2532 *

Saturn 47667-02-01 05:46 G 19131105.61 19131105.74 19131105.87 0.0300 0.0019

Jupiter 47667-03-14 11:02 G 19131146.90 19131146.96 19131147.03 0.0508 0.0473

Saturn 47667-04-30 17:46 G 19131194.13 19131194.24 19131194.35 0.0299 0.0159

Jupiter 47667-06-13 01:41 G 19131237.47 19131237.57 19131237.68 0.0510 0.0420

Venus 47669-02-22 13:55 G 19131857.95 19131858.08 19131858.22 0.3681 0.2060

Uranus 47669-06-29 22:34 G 19131985.40 19131985.44 19131985.49 0.0140 0.0130

Uranus 47669-09-26 01:41 G 19132073.50 19132073.57 19132073.66 0.0140 0.0110

Uranus 47669-12-23 05:02 G 19132161.62 19132161.71 19132161.82 0.0140 0.0089

Uranus 47670-03-21 08:24 G 19132249.74 19132249.85 19132249.97 0.0140 0.0068

Uranus 47670-06-17 11:46 G 19132337.87 19132337.99 19132338.11 0.0140 0.0047

Uranus 47670-09-13 14:53 G 19132426.00 19132426.12 19132426.25 0.0141 0.0027

Uranus 47670-12-10 18:14 G 19132514.13 19132514.26 19132514.39 0.0141 0.0006

Uranus 47671-03-08 21:36 G 19132602.27 19132602.40 19132602.53 0.0141 0.0016

Uranus 47671-06-05 00:58 G 19132690.41 19132690.54 19132690.66 0.0141 0.0037

Uranus 47671-09-01 04:05 G 19132778.56 19132778.67 19132778.79 0.0141 0.0058

Uranus 47671-11-28 07:26 G 19132866.70 19132866.81 19132866.92 0.0141 0.0079

Venus 47671-11-28 15:36 G 19132867.14 19132867.15 19132867.17 0.3690 0.3647

Uranus 47672-02-24 10:48 G 19132954.86 19132954.95 19132955.04 0.0141 0.0100

Uranus 47672-05-22 14:10 G 19133043.02 19133043.09 19133043.15 0.0141 0.0121

Jupiter 47672-11-11 13:55 G 19133216.00 19133216.08 19133216.17 0.0519 0.0370

Jupiter 47673-02-08 18:00 G 19133305.14 19133305.25 19133305.36 0.0516 0.0230

Moon 47673-10-28 17:17 G 19133567.12 19133567.22 19133567.32 0.2658 0.1010

Earth 47673-10-28 18:00 G 19133567.15 19133567.25 19133567.35 0.2659 0.0871 *

Mars 47676-03-26 21:50 G 19134447.30 19134447.41 19134447.53 0.1893 0.0152

Venus 47677-06-13 06:43 G 19134890.69 19134890.78 19134890.87 0.3689 0.1468

Jupiter 47679-03-31 22:05 G 19135547.25 19135547.42 19135547.59 0.0509 0.0202

Saturn 47682-05-17 10:34 G 19136689.82 19136689.94 19136690.08 0.0262 0.0194

Saturn 47682-08-14 08:24 G 19136778.65 19136778.85 19136779.04 0.0262 0.0014

Saturn 47682-11-11 05:46 G 19136867.60 19136867.74 19136867.89 0.0263 0.0171

Venus 47682-12-27 21:50 G 19136914.31 19136914.41 19136914.51 0.3689 0.0711

Earth 47683-05-01 11:17 G 19137038.85 19137038.97 19137039.08 0.2673 0.1934

Moon 47683-05-01 12:43 G 19137038.92 19137039.03 19137039.15 0.2677 0.1865 *

Jupiter 47684-11-27 22:34 G 19137615.31 19137615.44 19137615.56 0.0517 0.0079

Mars 47685-08-17 06:43 G 19137877.71 19137877.78 19137877.84 0.1887 0.1502

Moon 47686-10-31 10:34 G 19138317.84 19138317.94 19138318.05 0.2663 0.0350

Earth 47686-10-31 11:02 G 19138317.85 19138317.96 19138318.07 0.2658 0.0343 *

Mars 47688-05-23 05:46 G 19138887.58 19138887.74 19138887.91 0.1636 0.0396

Venus 47688-07-12 12:58 G 19138937.98 19138938.04 19138938.10 0.3689 0.2911

Pluto 47690-12-01 13:41 G 19139810.03 19139810.07 19139810.14 0.0068 0.0061

Jupiter 47691-01-17 18:00 G 19139857.06 19139857.25 19139857.44 0.0508 0.0020

Pluto 47691-02-27 14:24 G 19139898.02 19139898.10 19139898.20 0.0068 0.0050

Pluto 47691-05-26 14:53 G 19139986.02 19139986.12 19139986.24 0.0068 0.0040

Pluto 47691-08-22 15:36 G 19140074.03 19140074.15 19140074.28 0.0068 0.0029

Pluto 47691-11-18 16:19 G 19140162.05 19140162.18 19140162.31 0.0068 0.0019

Pluto 47692-02-14 16:48 G 19140250.07 19140250.20 19140250.33 0.0068 0.0008

Pluto 47692-05-12 17:17 G 19140338.09 19140338.22 19140338.36 0.0068 0.0003

Pluto 47692-08-08 17:46 G 19140426.12 19140426.24 19140426.38 0.0069 0.0014

Pluto 47692-11-04 18:14 G 19140514.15 19140514.26 19140514.40 0.0069 0.0025

Pluto 47693-01-31 18:58 G 19140602.18 19140602.29 19140602.41 0.0069 0.0035

Pluto 47693-04-29 19:26 G 19140690.22 19140690.31 19140690.42 0.0069 0.0046

Pluto 47693-07-26 19:55 G 19140778.27 19140778.33 19140778.42 0.0069 0.0057

Pluto 47693-10-22 20:24 G 19140866.34 19140866.35 19140866.39 0.0069 0.0068

Saturn 47696-03-23 19:12 G 19141749.24 19141749.30 19141749.37 0.0300 0.0254

Earth 47696-05-03 20:53 G 19141790.22 19141790.37 19141790.52 0.2674 0.1091

Moon 47696-05-03 22:34 G 19141790.31 19141790.44 19141790.58 0.2672 0.1418 *

Saturn 47696-06-20 07:26 G 19141837.69 19141837.81 19141837.94 0.0300 0.0074

Jupiter 47696-09-16 03:36 G 19141925.52 19141925.65 19141925.77 0.0518 0.0063

Saturn 47696-09-16 19:41 G 19141926.20 19141926.32 19141926.44 0.0299 0.0104

Saturn 47696-12-14 07:41 G 19142014.78 19142014.82 19142014.86 0.0298 0.0280

Mars 47697-10-13 06:29 G 19142317.65 19142317.77 19142317.89 0.1641 0.1138

Moon 47699-11-03 04:05 G 19143068.58 19143068.67 19143068.76 0.2663 0.1490

Earth 47699-11-03 04:05 G 19143068.59 19143068.67 19143068.76 0.2657 0.1543 *

Jupiter 47702-11-06 12:29 G 19144166.86 19144167.02 19144167.18 0.0508 0.0261

Mars 47706-05-06 12:58 G 19145443.97 19145444.04 19145444.12 0.1898 0.1393

Moon 47706-10-28 05:02 G 19145618.63 19145618.71 19145618.78 0.2656 0.1920

Earth 47706-10-28 05:31 G 19145618.65 19145618.73 19145618.81 0.2660 0.1850 *

Jupiter 47708-07-06 08:38 G 19146235.74 19146235.86 19146235.97 0.0519 0.0205

Jupiter 47708-10-03 12:29 G 19146324.94 19146325.02 19146325.10 0.0516 0.0392

Uranus 47710-01-29 15:22 G 19146808.07 19146808.14 19146808.23 0.0138 0.0124

Uranus 47710-04-27 23:31 G 19146896.34 19146896.48 19146896.63 0.0138 0.0094

Uranus 47710-07-25 07:26 G 19146984.64 19146984.81 19146984.99 0.0138 0.0064

Uranus 47710-10-21 15:22 G 19147072.96 19147073.14 19147073.34 0.0138 0.0035

Uranus 47711-01-17 23:31 G 19147161.28 19147161.48 19147161.68 0.0137 0.0005

Uranus 47711-04-16 07:26 G 19147249.62 19147249.81 19147250.01 0.0137 0.0025

Uranus 47711-07-13 15:22 G 19147337.96 19147338.14 19147338.32 0.0137 0.0055

Saturn 47711-10-05 09:50 G 19147421.85 19147421.91 19147421.99 0.0262 0.0244

Uranus 47711-10-09 23:02 G 19147426.32 19147426.46 19147426.63 0.0137 0.0085

Saturn 47712-01-02 07:26 G 19147510.62 19147510.81 19147511.00 0.0262 0.0063

Uranus 47712-01-06 07:12 G 19147514.69 19147514.80 19147514.91 0.0137 0.0113

Saturn 47712-03-31 05:02 G 19147599.54 19147599.71 19147599.88 0.0263 0.0120

Jupiter 47714-08-25 08:53 G 19148476.81 19148476.87 19148476.93 0.0507 0.0474

Jupiter 47714-11-23 23:17 G 19148567.37 19148567.47 19148567.58 0.0509 0.0418

Mars 47715-09-26 21:50 G 19148874.29 19148874.41 19148874.52 0.1893 0.0026

Moon 47719-10-30 22:05 G 19150369.31 19150369.42 19150369.52 0.2659 0.0691

Earth 47719-10-30 22:34 G 19150369.34 19150369.44 19150369.55 0.2659 0.0642 *

Jupiter 47720-04-24 13:12 G 19150545.96 19150546.05 19150546.14 0.0519 0.0357

Jupiter 47720-07-22 17:02 G 19150635.10 19150635.21 19150635.32 0.0517 0.0243

Mars 47725-02-16 06:43 G 19152304.70 19152304.78 19152304.86 0.1888 0.1321

Venus 47725-09-30 16:48 G 19152531.05 19152531.20 19152531.36 0.3682 0.0773

Saturn 47725-11-08 08:38 G 19152569.75 19152569.86 19152569.97 0.0300 0.0141

Saturn 47726-02-04 20:38 G 19152658.24 19152658.36 19152658.49 0.0300 0.0039

Saturn 47726-05-04 08:38 G 19152746.78 19152746.86 19152746.95 0.0299 0.0215

Jupiter 47726-09-11 20:10 G 19152877.17 19152877.34 19152877.51 0.0509 0.0205

Mars 47727-11-23 06:43 G 19153314.62 19153314.78 19153314.93 0.1636 0.0631

Venus 47728-07-05 12:58 G 19153539.98 19153540.04 19153540.10 0.3690 0.2849

Earth 47729-05-02 18:14 G 19153841.12 19153841.26 19153841.40 0.2673 0.1393

Moon 47729-05-02 19:55 G 19153841.18 19153841.33 19153841.48 0.2675 0.1096 *

Jupiter 47732-02-11 17:46 G 19154856.22 19154856.24 19154856.26 0.0519 0.0510

Neptune 47732-02-12 11:46 G 19154856.97 19154856.99 19154857.04 0.0089 0.0085

Neptune 47732-05-10 13:12 G 19154944.99 19154945.05 19154945.12 0.0089 0.0077

Jupiter 47732-05-10 21:50 G 19154945.28 19154945.41 19154945.53 0.0517 0.0093

Neptune 47732-08-06 14:38 G 19155033.03 19155033.11 19155033.19 0.0089 0.0069

Moon 47732-11-01 15:22 G 19155120.04 19155120.14 19155120.25 0.2664 0.0473

Earth 47732-11-01 15:50 G 19155120.05 19155120.16 19155120.26 0.2658 0.0575 *

Neptune 47732-11-02 15:50 G 19155121.07 19155121.16 19155121.26 0.0089 0.0061

Neptune 47733-01-29 17:02 G 19155209.11 19155209.21 19155209.32 0.0089 0.0054

Neptune 47733-04-27 18:14 G 19155297.16 19155297.26 19155297.38 0.0089 0.0046

Neptune 47733-07-24 19:41 G 19155385.20 19155385.32 19155385.44 0.0089 0.0038

Neptune 47733-10-20 20:53 G 19155473.25 19155473.37 19155473.50 0.0089 0.0031

Neptune 47734-01-16 22:19 G 19155561.30 19155561.43 19155561.55 0.0089 0.0023

Venus 47734-01-19 04:05 G 19155563.57 19155563.67 19155563.77 0.3689 0.0671

Neptune 47734-04-14 23:31 G 19155649.35 19155649.48 19155649.61 0.0089 0.0015

Neptune 47734-07-12 00:43 G 19155737.40 19155737.53 19155737.66 0.0089 0.0008

Neptune 47734-10-08 02:10 G 19155825.45 19155825.59 19155825.72 0.0089 0.0003

Neptune 47735-01-04 03:22 G 19155913.51 19155913.64 19155913.77 0.0089 0.0008

Neptune 47735-04-02 04:34 G 19156001.56 19156001.69 19156001.82 0.0089 0.0015

Neptune 47735-06-29 05:46 G 19156089.62 19156089.74 19156089.87 0.0089 0.0023

Neptune 47735-09-25 06:58 G 19156177.67 19156177.79 19156177.92 0.0089 0.0031

Neptune 47735-12-22 08:10 G 19156265.73 19156265.84 19156265.96 0.0089 0.0039

Neptune 47736-03-19 09:36 G 19156353.79 19156353.90 19156354.01 0.0089 0.0046

Neptune 47736-06-15 10:34 G 19156441.85 19156441.94 19156442.05 0.0089 0.0054

Neptune 47736-09-11 11:46 G 19156529.91 19156529.99 19156530.10 0.0089 0.0062

Neptune 47736-12-08 13:12 G 19156617.98 19156618.05 19156618.14 0.0089 0.0069

Neptune 47737-03-06 14:24 G 19156706.05 19156706.10 19156706.17 0.0089 0.0077

Mars 47737-04-14 07:12 G 19156744.66 19156744.80 19156744.94 0.1641 0.0907

Neptune 47737-06-02 15:50 G 19156794.12 19156794.16 19156794.20 0.0089 0.0084

Jupiter 47738-06-30 16:19 G 19157186.99 19157187.18 19157187.37 0.0508 0.0015

Venus 47739-08-04 19:12 G 19157587.21 19157587.30 19157587.39 0.3689 0.1517

Saturn 47741-05-21 05:46 G 19158242.57 19158242.74 19158242.92 0.0262 0.0120

Saturn 47741-08-18 03:22 G 19158331.46 19158331.64 19158331.83 0.0263 0.0063

Saturn 47741-11-15 00:58 G 19158420.49 19158420.54 19158420.61 0.0263 0.0247

Earth 47742-05-06 03:50 G 19158592.53 19158592.66 19158592.79 0.2674 0.1644

Moon 47742-05-06 05:46 G 19158592.62 19158592.74 19158592.87 0.2672 0.1743 *

Jupiter 47744-02-28 02:10 G 19159255.47 19159255.59 19159255.72 0.0518 0.0064

Earth 47745-11-04 08:53 G 19159870.79 19159870.87 19159870.95 0.2657 0.1773

Moon 47745-11-04 08:53 G 19159870.80 19159870.87 19159870.95 0.2663 0.1853 *

Mars 47745-11-04 12:58 G 19159870.98 19159871.04 19159871.11 0.1898 0.1555

Jupiter 47750-04-18 12:14 G 19161496.85 19161497.01 19161497.18 0.0508 0.0235

Moon 47752-10-28 09:36 G 19162420.82 19162420.90 19162420.98 0.2656 0.1713

Earth 47752-10-28 10:19 G 19162420.84 19162420.93 19162421.01 0.2660 0.1615 *

Uranus 47753-07-21 05:46 G 19162686.69 19162686.74 19162686.80 0.0140 0.0125

Uranus 47753-10-17 08:53 G 19162774.80 19162774.87 19162774.97 0.0140 0.0105

Uranus 47754-01-13 12:14 G 19162862.91 19162863.01 19162863.12 0.0140 0.0084

Uranus 47754-04-11 15:36 G 19162951.04 19162951.15 19162951.27 0.0140 0.0063

Uranus 47754-07-08 18:58 G 19163039.17 19163039.29 19163039.42 0.0140 0.0042

Uranus 47754-10-04 22:19 G 19163127.30 19163127.43 19163127.56 0.0141 0.0021

Uranus 47755-01-01 01:41 G 19163215.44 19163215.57 19163215.70 0.0141 0.0005

Mars 47755-03-27 21:50 G 19163301.30 19163301.41 19163301.52 0.1893 0.0190

Saturn 47755-03-28 10:48 G 19163301.85 19163301.95 19163302.05 0.0300 0.0192

Uranus 47755-03-30 04:48 G 19163303.57 19163303.70 19163303.83 0.0141 0.0021

Saturn 47755-06-24 22:48 G 19163390.33 19163390.45 19163390.58 0.0299 0.0015

Uranus 47755-06-26 08:10 G 19163391.72 19163391.84 19163391.96 0.0141 0.0042

Saturn 47755-09-21 11:02 G 19163478.85 19163478.96 19163479.06 0.0299 0.0164

Uranus 47755-09-22 11:31 G 19163479.86 19163479.98 19163480.09 0.0141 0.0063

Jupiter 47755-12-17 07:12 G 19163565.69 19163565.80 19163565.92 0.0519 0.0206

Uranus 47755-12-19 14:38 G 19163568.01 19163568.11 19163568.22 0.0141 0.0085

Jupiter 47756-03-15 11:02 G 19163654.88 19163654.96 19163655.04 0.0516 0.0392

Uranus 47756-03-16 18:00 G 19163656.17 19163656.25 19163656.34 0.0141 0.0106

Uranus 47756-06-12 21:07 G 19163744.34 19163744.38 19163744.45 0.0141 0.0128

Jupiter 47762-02-04 06:43 G 19165806.72 19165806.78 19165806.85 0.0507 0.0474

Jupiter 47762-05-05 21:22 G 19165897.28 19165897.39 19165897.50 0.0509 0.0416

Mars 47764-08-17 06:29 G 19166731.68 19166731.77 19166731.86 0.1887 0.1182

Moon 47765-10-31 02:53 G 19167171.51 19167171.62 19167171.72 0.2661 0.0490

Earth 47765-10-31 03:22 G 19167171.54 19167171.64 19167171.75 0.2659 0.0402 *

Mars 47767-05-24 07:12 G 19167741.66 19167741.80 19167741.95 0.1636 0.0854

Jupiter 47767-10-05 12:00 G 19167875.91 19167876.00 19167876.10 0.0519 0.0351

Jupiter	47768-01-02 16:05 G	19167965.06	19167965.17	19167965.28	0.0517	0.0251
Saturn	47770-10-08 05:17 G	19168974.58	19168974.72	19168974.88	0.0262	0.0166
Saturn	47771-01-05 03:07 G	19169063.44	19169063.63	19169063.82	0.0262	0.0016
Saturn	47771-04-04 00:43 G	19169152.41	19169152.53	19169152.66	0.0263	0.0200
Jupiter	47774-02-21 17:17 G	19170207.05	19170207.22	19170207.40	0.0509	0.0197
Earth	47775-05-04 00:58 G	19170643.39	19170643.54	19170643.70	0.2673	0.0858
Moon	47775-05-04 02:53 G	19170643.46	19170643.62	19170643.78	0.2674	0.0706 *
Mars	47776-10-13 07:55 G	19171171.68	19171171.83	19171171.99	0.1640	0.0662
Pluto	47777-06-27 09:22 G	19171428.85	19171428.89	19171428.99	0.0076	0.0071
Pluto	47777-09-23 12:14 G	19171516.88	19171517.01	19171517.16	0.0076	0.0050
Pluto	47777-12-20 14:38 G	19171604.94	19171605.11	19171605.30	0.0076	0.0029
Pluto	47778-03-18 17:17 G	19171693.03	19171693.22	19171693.41	0.0075	0.0009
Pluto	47778-06-14 19:41 G	19171781.13	19171781.32	19171781.51	0.0075	0.0012
Pluto	47778-09-10 21:50 G	19171869.25	19171869.41	19171869.60	0.0075	0.0032
Moon	47778-11-02 20:10 G	19171922.24	19171922.34	19171922.44	0.2663	0.0805
Earth	47778-11-02 20:24 G	19171922.25	19171922.35	19171922.46	0.2658	0.0817 *
Pluto	47778-12-08 00:14 G	19171957.38	19171957.51	19171957.66	0.0075	0.0052
Pluto	47779-03-06 02:38 G	19172045.57	19172045.61	19172045.67	0.0075	0.0072
Jupiter	47779-07-24 16:34 G	19172186.17	19172186.19	19172186.22	0.0519	0.0504
Jupiter	47779-10-21 20:38 G	19172275.24	19172275.36	19172275.48	0.0517	0.0099
Venus	47782-05-07 19:41 G	19173204.29	19173204.32	19173204.36	0.3682	0.3573
Saturn	47784-08-14 12:14 G	19174033.95	19174034.01	19174034.08	0.0301	0.0251
Saturn	47784-11-11 00:29 G	19174122.40	19174122.52	19174122.65	0.0300	0.0072
Saturn	47785-02-07 12:43 G	19174210.91	19174211.03	19174211.15	0.0299	0.0107
Venus	47785-02-09 10:19 G	19174212.85	19174212.93	19174213.01	0.3689	0.2051
Mars	47785-05-05 12:58 G	19174298.00	19174298.04	19174298.09	0.1898	0.1725
Saturn	47785-05-07 00:29 G	19174299.49	19174299.52	19174299.56	0.0299	0.0282
Earth	47785-10-26 21:50 G	19174472.39	19174472.41	19174472.43	0.2661	0.2594
Jupiter	47785-12-10 13:55 G	19174516.89	19174517.08	19174517.27	0.0508	0.0018
Earth	47788-05-06 10:48 G	19175394.86	19175394.95	19175395.05	0.2674	0.2189

Moon 47788-05-06 12:43 G 19175394.98 19175395.03 19175395.08 0.2672 0.2518 *

Venus 47790-08-26 01:12 G 19176236.45 19176236.55 19176236.65 0.3689 0.0198

Jupiter 47791-08-10 01:12 G 19176585.43 19176585.55 19176585.68 0.0518 0.0053

Earth 47791-11-05 13:26 G 19176673.00 19176673.06 19176673.13 0.2657 0.2005

Moon 47791-11-05 13:55 G 19176673.01 19176673.08 19176673.15 0.2663 0.1996 *

Uranus 47794-02-18 22:05 G 19177509.33 19177509.42 19177509.53 0.0138 0.0118

Uranus 47794-05-18 06:14 G 19177597.61 19177597.76 19177597.91 0.0138 0.0088

Uranus 47794-08-14 13:55 G 19177685.92 19177686.08 19177686.27 0.0138 0.0059

Mars 47794-09-25 21:50 G 19177728.30 19177728.41 19177728.52 0.1893 0.0350

Uranus 47794-11-10 22:05 G 19177774.23 19177774.42 19177774.62 0.0137 0.0029

Uranus 47795-02-07 06:14 G 19177862.56 19177862.76 19177862.96 0.0137 0.0001

Uranus 47795-05-06 13:55 G 19177950.90 19177951.08 19177951.28 0.0137 0.0032

Uranus 47795-08-02 22:05 G 19178039.24 19178039.42 19178039.60 0.0137 0.0060

Uranus 47795-10-30 05:46 G 19178127.60 19178127.74 19178127.90 0.0137 0.0090

Uranus 47796-01-26 13:41 G 19178215.99 19178216.07 19178216.18 0.0137 0.0119

Venus 47796-03-10 16:19 G 19178260.11 19178260.18 19178260.26 0.3689 0.2323

Jupiter 47797-09-28 10:05 G 19178826.76 19178826.92 19178827.09 0.0508 0.0235

Moon 47798-10-29 14:24 G 19179223.01 19179223.10 19179223.19 0.2657 0.1423

Earth 47798-10-29 15:07 G 19179223.03 19179223.13 19179223.22 0.2660 0.1379 *

Saturn 47800-02-25 04:19 G 19179706.58 19179706.68 19179706.79 0.0262 0.0218

Saturn 47800-05-25 01:55 G 19179795.39 19179795.58 19179795.78 0.0262 0.0037

Saturn 47800-08-21 23:31 G 19179884.33 19179884.48 19179884.65 0.0263 0.0147

Jupiter 47803-05-30 05:31 G 19180895.62 19180895.73 19180895.85 0.0518 0.0209

Jupiter 47803-08-27 09:22 G 19180984.82 19180984.89 19180984.98 0.0516 0.0389

Mars 47804-02-17 06:29 G 19181158.68 19181158.77 19181158.87 0.1887 0.1008

Mars 47806-11-23 08:10 G 19182168.71 19182168.84 19182168.96 0.1636 0.1092

Jupiter 47809-07-18 06:00 G 19183136.67 19183136.75 19183136.83 0.0507 0.0455

Jupiter 47809-10-16 20:38 G 19183227.26 19183227.36 19183227.45 0.0509 0.0436

Moon 47811-11-02 07:41 G 19183973.71 19183973.82 19183973.92 0.2662 0.0270

Earth 47811-11-02 08:10 G 19183973.73 19183973.84 19183973.95 0.2658 0.0162 *

Saturn 47814-01-02 14:53 G 19184766.11 19184766.12 19184766.13 0.0300 0.0298

Saturn 47814-04-01 02:53 G 19184854.51 19184854.62 19184854.74 0.0300 0.0119

Saturn 47814-06-28 15:07 G 19184943.01 19184943.13 19184943.26 0.0299 0.0060

Saturn 47814-09-25 03:07 G 19185031.56 19185031.63 19185031.71 0.0298 0.0236

Jupiter 47815-03-18 10:19 G 19185205.84 19185205.93 19185206.02 0.0519 0.0356

Jupiter 47815-06-15 14:24 G 19185294.99 19185295.10 19185295.21 0.0517 0.0246

Mars 47816-04-14 08:38 G 19185598.69 19185598.86 19185599.02 0.1641 0.0449

Neptune 47816-07-13 22:19 G 19185689.35 19185689.43 19185689.54 0.0089 0.0078

Neptune 47816-10-10 01:55 G 19185777.47 19185777.58 19185777.73 0.0089 0.0067

Neptune 47817-01-06 06:00 G 19185865.60 19185865.75 19185865.91 0.0089 0.0055

Neptune 47817-04-04 09:36 G 19185953.74 19185953.90 19185954.09 0.0089 0.0044

Neptune 47817-07-01 13:41 G 19186041.89 19186042.07 19186042.26 0.0089 0.0032

Neptune 47817-09-27 17:17 G 19186130.03 19186130.22 19186130.42 0.0089 0.0021

Neptune 47817-12-24 21:07 G 19186218.19 19186218.38 19186218.58 0.0089 0.0009

Neptune 47818-03-23 00:58 G 19186306.34 19186306.54 19186306.74 0.0089 0.0003

Neptune 47818-06-19 04:34 G 19186394.50 19186394.69 19186394.89 0.0089 0.0014

Neptune 47818-09-15 08:24 G 19186482.66 19186482.85 19186483.04 0.0089 0.0026

Neptune 47818-12-12 12:00 G 19186570.83 19186571.00 19186571.19 0.0089 0.0037

Neptune 47819-03-10 15:50 G 19186659.00 19186659.16 19186659.33 0.0089 0.0049

Neptune 47819-06-06 19:26 G 19186747.18 19186747.31 19186747.47 0.0089 0.0061

Neptune 47819-09-02 23:17 G 19186835.37 19186835.47 19186835.60 0.0089 0.0072

Neptune 47819-11-30 02:53 G 19186923.57 19186923.62 19186923.70 0.0089 0.0084

Earth 47821-05-05 08:10 G 19187445.68 19187445.84 19187446.00 0.2673 0.0307

Moon 47821-05-05 10:05 G 19187445.76 19187445.92 19187446.08 0.2673 0.0039 *

Jupiter 47821-08-04 14:53 G 19187536.95 19187537.12 19187537.30 0.0508 0.0191

Moon 47824-11-04 00:58 G 19188724.44 19188724.54 19188724.64 0.2663 0.0992

Earth 47824-11-04 01:12 G 19188724.45 19188724.55 19188724.65 0.2657 0.1040 *

Mars 47824-11-04 12:58 G 19188725.03 19188725.04 19188725.05 0.1898 0.1877

Jupiter 47827-01-04 15:07 G 19189516.11 19189516.13 19189516.16 0.0520 0.0504

Jupiter 47827-04-03 19:26 G 19189605.18 19189605.31 19189605.43 0.0518 0.0103

Saturn 47829-07-15 04:48 G 19190438.68 19190438.70 19190438.72 0.0262 0.0259

Saturn 47829-10-12 02:10 G 19190527.41 19190527.59 19190527.78 0.0262 0.0078

Saturn 47830-01-08 23:46 G 19190616.32 19190616.49 19190616.67 0.0263 0.0106

Moon 47831-10-29 02:10 G 19191274.54 19191274.59 19191274.64 0.2655 0.2349

Earth 47831-10-29 02:38 G 19191274.56 19191274.61 19191274.65 0.2660 0.2359 *

Jupiter 47833-05-23 11:02 G 19191846.77 19191846.96 19191847.14 0.0508 0.0032

Venus 47833-05-29 10:34 G 19191852.81 19191852.94 19191853.07 0.3681 0.2233

Mars 47834-03-27 21:36 G 19192155.30 19192155.40 19192155.51 0.1893 0.0513

Venus 47836-03-03 16:34 G 19192862.16 19192862.19 19192862.22 0.3690 0.3439

Uranus 47837-08-11 12:58 G 19193387.98 19193388.04 19193388.11 0.0140 0.0120

Earth 47837-11-06 18:14 G 19193475.20 19193475.26 19193475.32 0.2657 0.2233

Moon 47837-11-06 18:29 G 19193475.22 19193475.27 19193475.32 0.2663 0.2330 *

Uranus 47837-11-07 16:19 G 19193476.09 19193476.18 19193476.27 0.0140 0.0099

Uranus 47838-02-03 19:41 G 19193564.21 19193564.32 19193564.42 0.0140 0.0079

Uranus 47838-05-02 22:48 G 19193652.33 19193652.45 19193652.57 0.0141 0.0058

Uranus 47838-07-30 02:10 G 19193740.46 19193740.59 19193740.71 0.0141 0.0037

Uranus 47838-10-26 05:31 G 19193828.60 19193828.73 19193828.86 0.0141 0.0017

Jupiter 47839-01-20 23:46 G 19193915.37 19193915.49 19193915.62 0.0518 0.0055

Uranus 47839-01-22 08:38 G 19193916.73 19193916.86 19193916.99 0.0141 0.0007

Uranus 47839-04-20 12:00 G 19194004.87 19194005.00 19194005.13 0.0141 0.0026

Uranus 47839-07-17 15:22 G 19194093.02 19194093.14 19194093.26 0.0141 0.0047

Uranus 47839-10-13 18:43 G 19194181.16 19194181.28 19194181.39 0.0141 0.0068

Uranus 47840-01-09 21:50 G 19194269.32 19194269.41 19194269.52 0.0141 0.0090

Uranus 47840-04-07 01:12 G 19194357.48 19194357.55 19194357.63 0.0141 0.0111

Uranus 47840-07-04 04:19 G 19194445.65 19194445.68 19194445.74 0.0141 0.0133

Venus 47841-09-17 07:26 G 19194885.72 19194885.81 19194885.91 0.3689 0.1277

Mars 47843-08-18 06:29 G 19195585.67 19195585.77 19195585.87 0.1887 0.0841

Saturn 47843-08-19 05:02 G 19195586.61 19195586.71 19195586.82 0.0300 0.0170

Saturn 47843-11-15 17:17 G 19195675.09 19195675.22 19195675.35 0.0300 0.0009

Saturn 47844-02-12 05:17 G 19195763.62 19195763.72 19195763.82 0.0299 0.0186

Moon 47844-10-30 19:12 G 19196025.20 19196025.30 19196025.39 0.2658 0.1270

Earth 47844-10-30 19:41 G 19196025.23 19196025.32 19196025.42 0.2659 0.1140 *

Jupiter 47845-03-11 07:26 G 19196156.64 19196156.81 19196156.97 0.0508 0.0246

Mars 47846-05-24 08:53 G 19196595.77 19196595.87 19196595.96 0.1636 0.1322

Venus 47847-04-02 22:34 G 19196909.35 19196909.44 19196909.54 0.3689 0.0924

Jupiter 47850-11-09 04:19 G 19198225.57 19198225.68 19198225.80 0.0518 0.0205

Jupiter 47851-02-06 08:10 G 19198314.77 19198314.84 19198314.93 0.0516 0.0393

Venus 47852-10-16 13:41 G 19198933.02 19198933.07 19198933.12 0.3688 0.3117

Moon 47854-05-03 06:58 G 19199496.78 19199496.79 19199496.81 0.2675 0.2651

Mars 47855-10-14 09:22 G 19200025.72 19200025.89 19200026.06 0.1640 0.0214

Jupiter 47856-12-28 03:36 G 19200466.58 19200466.65 19200466.73 0.0507 0.0462

Jupiter 47857-03-28 18:00 G 19200557.16 19200557.25 19200557.36 0.0509 0.0430

Moon 47857-11-02 12:14 G 19200775.91 19200776.01 19200776.12 0.2662 0.0102

Earth 47857-11-02 12:58 G 19200775.93 19200776.04 19200776.15 0.2658 0.0086 *

Saturn 47859-03-01 01:26 G 19201259.39 19201259.56 19201259.73 0.0262 0.0128

Saturn 47859-05-28 23:02 G 19201348.27 19201348.46 19201348.65 0.0263 0.0055

Saturn 47859-08-25 20:53 G 19201437.29 19201437.37 19201437.45 0.0263 0.0240

Jupiter 47862-08-28 08:38 G 19202535.77 19202535.86 19202535.95 0.0519 0.0363

Jupiter 47862-11-25 12:43 G 19202624.92 19202625.03 19202625.14 0.0517 0.0238

Earth 47867-05-06 15:07 G 19204247.97 19204248.13 19204248.29 0.2673 0.0239

Moon 47867-05-06 17:02 G 19204248.05 19204248.21 19204248.37 0.2673 0.0456 *

Jupiter 47869-01-14 13:41 G 19204866.90 19204867.07 19204867.25 0.0509 0.0203

Moon 47870-11-05 06:00 G 19205526.65 19205526.75 19205526.84 0.2664 0.1272

Earth 47870-11-05 06:00 G 19205526.65 19205526.75 19205526.84 0.2657 0.1274 *

Saturn 47873-01-05 07:55 G 19206318.74 19206318.83 19206318.92 0.0300 0.0211

Saturn 47873-04-03 20:10 G 19206407.21 19206407.34 19206407.47 0.0299 0.0032

Saturn 47873-07-01 08:10 G 19206495.73 19206495.84 19206495.96 0.0299 0.0146

Mars 47873-09-25 21:36 G 19206582.30 19206582.40 19206582.51 0.1893 0.0678

Jupiter 47874-06-16 13:26 G 19206846.04 19206846.06 19206846.07 0.0520 0.0513

Jupiter 47874-09-13 17:31 G 19206935.11 19206935.23 19206935.35 0.0518 0.0092

Moon 47877-10-29 06:58 G 19208076.73 19208076.79 19208076.84 0.2655 0.2234

Earth 47877-10-29 07:26 G 19208076.74 19208076.81 19208076.87 0.2660 0.2119 *

Uranus 47878-03-12 05:02 G 19208210.61 19208210.71 19208210.85 0.0138 0.0111

Uranus 47878-06-08 13:12 G 19208298.90 19208299.05 19208299.22 0.0138 0.0081

Uranus 47878-09-04 21:22 G 19208387.21 19208387.39 19208387.58 0.0137 0.0051

Uranus 47878-12-02 05:17 G 19208475.53 19208475.72 19208475.92 0.0137 0.0021

Uranus 47879-02-28 13:26 G 19208563.86 19208564.06 19208564.26 0.0137 0.0009

Uranus 47879-05-27 21:22 G 19208652.20 19208652.39 19208652.58 0.0137 0.0038

Uranus 47879-08-24 05:02 G 19208740.55 19208740.71 19208740.89 0.0137 0.0068

Uranus 47879-11-20 12:58 G 19208828.91 19208829.04 19208829.19 0.0137 0.0097

Uranus 47880-02-16 21:07 G 19208917.31 19208917.38 19208917.45 0.0137 0.0126

Jupiter 47880-11-02 08:10 G 19209176.66 19209176.84 19209177.03 0.0508 0.0041

Mars 47883-02-16 06:29 G 19210012.66 19210012.77 19210012.87 0.1887 0.0693

Earth 47883-11-07 23:02 G 19210277.42 19210277.46 19210277.49 0.2656 0.2465

Moon 47883-11-07 23:17 G 19210277.44 19210277.47 19210277.51 0.2662 0.2488 *

Mars 47885-11-22 09:22 G 19211022.84 19211022.89 19211022.95 0.1636 0.1550

Jupiter 47886-07-02 22:19 G 19211245.30 19211245.43 19211245.55 0.0518 0.0057

Saturn 47888-07-18 02:10 G 19211991.44 19211991.59 19211991.74 0.0262 0.0165

Saturn 47888-10-14 23:46 G 19212080.30 19212080.49 19212080.69 0.0263 0.0018

Saturn 47889-01-11 21:22 G 19212169.28 19212169.39 19212169.52 0.0263 0.0202

Venus 47890-01-03 13:26 G 19212525.90 19212526.06 19212526.22 0.3682 0.0618

Moon 47890-10-31 23:46 G 19212827.39 19212827.49 19212827.59 0.2660 0.0933

Earth 47890-11-01 00:29 G 19212827.42 19212827.52 19212827.62 0.2659 0.0900 *

Jupiter 47892-08-21 04:05 G 19213486.51 19213486.67 19213486.83 0.0507 0.0262

Venus 47892-10-08 13:41 G 19213535.01 19213535.07 19213535.14 0.3689 0.2655

Mars 47895-04-14 10:05 G 19214452.75 19214452.92 19214453.09 0.1640 0.0036

Neptune 47896-08-13 10:48 G 19214939.94 19214939.95 19214939.96 0.0089 0.0088

Neptune 47896-11-09 11:46 G 19215027.95 19215027.99 19215028.06 0.0089 0.0081

Neptune 47897-02-05 13:12 G 19215115.98 19215116.05 19215116.13 0.0089 0.0073

Neptune 47897-05-04 14:38 G 19215204.02 19215204.11 19215204.20 0.0089 0.0065

Neptune 47897-07-31 15:36 G 19215292.06 19215292.15 19215292.26 0.0089 0.0058

Neptune 47897-10-27 17:02 G 19215380.11 19215380.21 19215380.32 0.0089 0.0050

Neptune 47898-01-23 18:29 G 19215468.15 19215468.27 19215468.38 0.0089 0.0042

Jupiter 47898-04-21 02:38 G 19215555.50 19215555.61 19215555.73 0.0519 0.0211

Neptune 47898-04-21 19:26 G 19215556.20 19215556.31 19215556.44 0.0089 0.0035

Venus 47898-04-24 04:48 G 19215558.60 19215558.70 19215558.80 0.3689 0.0471

Neptune 47898-07-18 20:53 G 19215644.25 19215644.37 19215644.50 0.0089 0.0027

Jupiter 47898-07-19 06:29 G 19215644.70 19215644.77 19215644.86 0.0516 0.0389

Neptune 47898-10-14 22:19 G 19215732.30 19215732.43 19215732.55 0.0089 0.0019

Neptune 47899-01-10 23:31 G 19215820.35 19215820.48 19215820.61 0.0089 0.0011

Neptune 47899-04-09 00:43 G 19215908.40 19215908.53 19215908.66 0.0089 0.0004

Neptune 47899-07-06 01:55 G 19215996.45 19215996.58 19215996.71 0.0089 0.0005

Neptune 47899-10-02 03:07 G 19216084.51 19216084.63 19216084.77 0.0089 0.0012

Neptune 47899-12-29 04:19 G 19216172.56 19216172.68 19216172.82 0.0089 0.0020

Neptune 47900-03-27 05:46 G 19216260.62 19216260.74 19216260.87 0.0089 0.0027

Earth 47900-05-04 12:29 G 19216298.93 19216299.02 19216299.11 0.2672 0.2230

Moon 47900-05-04 14:10 G 19216298.98 19216299.09 19216299.20 0.2674 0.1929 *

Neptune 47900-06-23 06:58 G 19216348.67 19216348.79 19216348.91 0.0089 0.0035

Neptune 47900-09-19 08:10 G 19216436.73 19216436.84 19216436.96 0.0089 0.0042

Neptune 47900-12-16 09:36 G 19216524.79 19216524.90 19216525.01 0.0089 0.0050

Neptune 47901-03-14 10:34 G 19216612.85 19216612.94 19216613.05 0.0089 0.0058

Neptune 47901-06-10 11:46 G 19216700.92 19216700.99 19216701.09 0.0089 0.0066

Neptune 47901-09-06 13:12 G 19216788.98 19216789.05 19216789.13 0.0089 0.0073

Neptune 47901-12-03 14:24 G 19216877.06 19216877.10 19216877.16 0.0089 0.0081

Neptune 47902-03-01 15:50 G 19216965.15 19216965.16 19216965.17 0.0089 0.0088

Saturn 47902-05-26 10:34 G 19217050.88 19217050.94 19217051.01 0.0300 0.0255

Saturn 47902-08-22 22:48 G 19217139.33 19217139.45 19217139.58 0.0300 0.0076

Saturn 47902-11-19 11:02 G 19217227.84 19217227.96 19217228.08 0.0299 0.0102

Saturn 47903-02-15 22:48 G 19217316.41 19217316.45 19217316.50 0.0298 0.0277

Moon 47903-11-04 17:02 G 19217578.11 19217578.21 19217578.32 0.2662 0.0220

Earth 47903-11-04 17:31 G 19217578.13 19217578.23 19217578.34 0.2658 0.0325 *

Venus 47903-11-08 19:55 G 19217582.24 19217582.33 19217582.42 0.3689 0.1730

Jupiter 47904-06-10 00:14 G 19217796.46 19217796.51 19217796.57 0.0507 0.0479

Mars 47904-09-04 10:34 G 19217882.88 19217882.94 19217883.00 0.1645 0.1519

Jupiter 47904-09-08 14:53 G 19217887.01 19217887.12 19217887.23 0.0509 0.0412

Jupiter 47910-02-08 07:12 G 19219865.71 19219865.80 19219865.89 0.0519 0.0363

Jupiter 47910-05-08 11:17 G 19219954.86 19219954.97 19219955.08 0.0517 0.0238

Mars 47913-03-27 21:36 G 19221009.30 19221009.40 19221009.50 0.1893 0.0839

Earth 47913-05-07 22:05 G 19221050.26 19221050.42 19221050.58 0.2674 0.0781

Moon 47913-05-08 00:00 G 19221050.35 19221050.50 19221050.65 0.2673 0.0999 *

Jupiter 47916-06-27 10:48 G 19222196.78 19222196.95 19222197.13 0.0509 0.0191

Moon 47916-11-06 10:48 G 19222328.86 19222328.95 19222329.03 0.2664 0.1542

Earth 47916-11-06 10:48 G 19222328.86 19222328.95 19222329.03 0.2657 0.1510 *

Saturn 47917-12-06 01:41 G 19222723.46 19222723.57 19222723.69 0.0262 0.0212

Saturn 47918-03-04 23:31 G 19222812.28 19222812.48 19222812.67 0.0263 0.0030

Saturn 47918-06-01 20:53 G 19222901.23 19222901.37 19222901.54 0.0263 0.0156

Uranus 47921-06-05 16:34 G 19224001.18 19224001.19 19224001.22 0.0140 0.0138

Uranus 47921-09-01 19:55 G 19224089.26 19224089.33 19224089.41 0.0140 0.0117

Uranus 47921-11-28 23:02 G 19224177.38 19224177.46 19224177.56 0.0140 0.0097

Jupiter 47922-02-24 15:36 G 19224265.02 19224265.15 19224265.27 0.0517 0.0082

Uranus 47922-02-25 02:24 G 19224265.50 19224265.60 19224265.72 0.0140 0.0076

Uranus 47922-05-24 05:46 G 19224353.62 19224353.74 19224353.86 0.0141 0.0055

Mars 47922-08-18 06:29 G 19224439.66 19224439.77 19224439.88 0.1887 0.0528

Uranus 47922-08-20 09:07 G 19224441.75 19224441.88 19224442.01 0.0141 0.0033

Uranus 47922-11-16 12:29 G 19224529.89 19224530.02 19224530.15 0.0141 0.0013

Uranus 47923-02-12 15:36 G 19224618.02 19224618.15 19224618.28 0.0141 0.0010

Uranus 47923-05-11 18:58 G 19224706.17 19224706.29 19224706.42 0.0141 0.0030

Uranus 47923-08-07 22:19 G 19224794.31 19224794.43 19224794.55 0.0141 0.0051

Moon 47923-10-31 11:31 G 19224878.91 19224878.98 19224879.06 0.2656 0.1894

Earth 47923-10-31 12:00 G 19224878.93 19224879.00 19224879.08 0.2660 0.1883 *

Uranus 47923-11-04 01:26 G 19224882.46 19224882.56 19224882.68 0.0141 0.0072

Uranus 47924-01-31 04:48 G 19224970.61 19224970.70 19224970.80 0.0141 0.0093

Uranus 47924-04-28 08:10 G 19225058.77 19225058.84 19225058.92 0.0141 0.0114

Uranus 47924-07-25 11:31 G 19225146.95 19225146.98 19225147.02 0.0141 0.0136

Jupiter 47928-04-15 06:29 G 19226506.58 19226506.77 19226506.96 0.0508 0.0035

Saturn 47931-10-13 13:41 G 19227783.05 19227783.07 19227783.09 0.0300 0.0294

Mars 47932-01-08 15:22 G 19227870.12 19227870.14 19227870.15 0.1882 0.1856

Saturn 47932-01-10 01:55 G 19227871.46 19227871.58 19227871.70 0.0300 0.0115

Saturn 47932-04-07 13:55 G 19227959.96 19227960.08 19227960.21 0.0299 0.0064

Saturn 47932-07-05 01:55 G 19228048.51 19228048.58 19228048.66 0.0298 0.0239

Jupiter 47933-12-13 20:10 G 19228575.22 19228575.34 19228575.47 0.0518 0.0069

Mars 47934-10-14 10:48 G 19228879.78 19228879.95 19228880.11 0.1640 0.0253

Moon 47936-11-02 04:34 G 19229629.59 19229629.69 19229629.79 0.2661 0.0819

Earth 47936-11-02 05:17 G 19229629.62 19229629.72 19229629.82 0.2659 0.0663 *

Pluto 47938-10-03 22:05 G 19230330.40 19230330.42 19230330.48 0.0068 0.0065

Pluto 47938-12-30 22:48 G 19230418.38 19230418.45 19230418.54 0.0068 0.0054

Pluto 47939-03-28 23:17 G 19230506.38 19230506.47 19230506.59 0.0068 0.0044

Pluto 47939-06-25 00:00 G 19230594.39 19230594.50 19230594.63 0.0068 0.0033

Pluto 47939-09-21 00:43 G 19230682.40 19230682.53 19230682.66 0.0068 0.0022

Pluto 47939-12-18 01:12 G 19230770.42 19230770.55 19230770.69 0.0068 0.0012

Jupiter 47940-02-02 01:12 G 19230816.39 19230816.55 19230816.71 0.0507 0.0273

Pluto 47940-03-15 01:55 G 19230858.44 19230858.58 19230858.71 0.0068 0.0001

Pluto 47940-06-11 02:24 G 19230946.47 19230946.60 19230946.73 0.0068 0.0010

Pluto 47940-09-07 02:53 G 19231034.50 19231034.62 19231034.75 0.0069 0.0020

Pluto 47940-12-04 03:36 G 19231122.53 19231122.65 19231122.77 0.0069 0.0031

Pluto 47941-03-02 04:05 G 19231210.57 19231210.67 19231210.78 0.0069 0.0042

Pluto 47941-05-29 04:34 G 19231298.61 19231298.69 19231298.78 0.0069 0.0053

Pluto 47941-08-25 05:02 G 19231386.67 19231386.71 19231386.77 0.0069 0.0064

Mars 47944-03-05 11:17 G 19232309.87 19232309.97 19232310.07 0.1645 0.1288

Jupiter 47945-10-02 00:43 G 19232885.42 19232885.53 19232885.65 0.0519 0.0221

Jupiter 47945-12-30 04:48 G 19232974.62 19232974.70 19232974.79 0.0517 0.0381

Earth 47946-05-05 19:26 G 19233101.18 19233101.31 19233101.43 0.2673 0.1691

Moon 47946-05-05 21:22 G 19233101.26 19233101.39 19233101.52 0.2674 0.1580 *

Venus 47946-08-11 16:19 G 19233199.13 19233199.18 19233199.24 0.3682 0.3442

Saturn 47947-04-25 02:38 G 19233455.56 19233455.61 19233455.68 0.0262 0.0247

Saturn 47947-07-23 00:29 G 19233544.33 19233544.52 19233544.70 0.0263 0.0065

Saturn 47947-10-19 22:05 G 19233633.25 19233633.42 19233633.59 0.0263 0.0119

Venus 47949-05-16 11:02 G 19234207.87 19234207.96 19234208.05 0.3689 0.1856

Moon 47949-11-04 22:05 G 19234380.31 19234380.42 19234380.52 0.2663 0.0552

Earth 47949-11-04 22:19 G 19234380.33 19234380.43 19234380.54 0.2658 0.0544 *

Jupiter 47951-11-20 21:07 G 19235126.34 19235126.38 19235126.41 0.0506 0.0495

Jupiter 47952-02-19 11:17 G 19235216.86 19235216.97 19235217.09 0.0509 0.0393

Mars 47952-09-25 21:36 G 19235436.30 19235436.40 19235436.50 0.1893 0.0990

Venus 47954-11-30 02:10 G 19236231.49 19236231.59 19236231.69 0.3689 0.0341

Jupiter 47957-07-21 05:17 G 19237195.64 19237195.72 19237195.81 0.0519 0.0374

Jupiter 47957-10-18 09:22 G 19237284.78 19237284.89 19237285.00 0.0517 0.0228

Earth 47959-05-09 05:02 G 19237852.57 19237852.71 19237852.85 0.2674 0.1322

Moon 47959-05-09 06:43 G 19237852.65 19237852.78 19237852.91 0.2672 0.1569 *

Venus 47960-06-14 17:17 G 19238255.15 19238255.22 19238255.29 0.3688 0.2537

Saturn 47961-05-29 05:02 G 19238603.60 19238603.71 19238603.82 0.0300 0.0153

Saturn 47961-08-25 17:02 G 19238692.08 19238692.21 19238692.34 0.0299 0.0026

Saturn 47961-11-22 05:02 G 19238780.62 19238780.71 19238780.81 0.0299 0.0202

Uranus 47962-01-04 04:19 G 19238823.65 19238823.68 19238823.75 0.0138 0.0133

Mars 47962-02-16 06:29 G 19238866.66 19238866.77 19238866.88 0.1887 0.0347

Uranus 47962-04-02 12:29 G 19238911.90 19238912.02 19238912.16 0.0138 0.0103

Uranus 47962-06-29 20:24 G 19239000.20 19239000.35 19239000.53 0.0138 0.0074

Uranus 47962-09-26 04:34 G 19239088.51 19239088.69 19239088.88 0.0137 0.0043

Earth 47962-11-07 15:22 G 19239131.06 19239131.14 19239131.22 0.2657 0.1740

Moon 47962-11-07 15:36 G 19239131.07 19239131.15 19239131.23 0.2664 0.1727 *

Uranus 47962-12-23 12:43 G 19239176.83 19239177.03 19239177.22 0.0137 0.0014

Uranus 47963-03-21 20:38 G 19239265.16 19239265.36 19239265.55 0.0137 0.0016

Uranus 47963-06-18 04:34 G 19239353.50 19239353.69 19239353.88 0.0137 0.0046

Uranus 47963-09-14 12:14 G 19239441.86 19239442.01 19239442.18 0.0137 0.0075

Jupiter 47963-12-08 07:12 G 19239526.63 19239526.80 19239526.98 0.0509 0.0170

Uranus 47963-12-11 20:24 G 19239530.22 19239530.35 19239530.48 0.0137 0.0104

Uranus 47964-03-09 03:50 G 19239618.64 19239618.66 19239618.72 0.0137 0.0134

Jupiter 47969-08-06 13:55 G 19241594.96 19241595.08 19241595.21 0.0517 0.0078

Moon 47969-10-31 16:19 G 19241681.10 19241681.18 19241681.26 0.2657 0.1751

Earth 47969-10-31 16:48 G 19241681.12 19241681.20 19241681.29 0.2660 0.1642 *

Mars 47971-07-09 15:22 G 19242297.09 19242297.14 19242297.18 0.1882 0.1703

Mars 47974-04-14 11:31 G 19243306.81 19243306.98 19243307.14 0.1640 0.0484

Jupiter 47975-09-26 03:22 G 19243836.45 19243836.64 19243836.83 0.0508 0.0051

Saturn 47976-12-09 00:14 G 19244276.33 19244276.51 19244276.68 0.0262 0.0110

Saturn 47977-03-07 21:50 G 19244365.22 19244365.41 19244365.60 0.0263 0.0074

Saturn 47977-06-04 19:41 G 19244454.29 19244454.32 19244454.35 0.0264 0.0259

Neptune 47981-01-12 17:46 G 19245772.18 19245772.24 19245772.32 0.0089 0.0083

Neptune 47981-04-10 21:22 G 19245860.29 19245860.39 19245860.52 0.0089 0.0072

Jupiter 47981-05-25 18:14 G 19245905.14 19245905.26 19245905.38 0.0518 0.0081

Neptune 47981-07-08 01:26 G 19245948.42 19245948.56 19245948.71 0.0089 0.0060

Jupiter 47981-08-22 22:05 G 19245994.41 19245994.42 19245994.43 0.0516 0.0514

Neptune 47981-10-04 05:02 G 19246036.55 19246036.71 19246036.88 0.0089 0.0049

Neptune 47981-12-31 08:38 G 19246124.69 19246124.86 19246125.05 0.0089 0.0038

Neptune 47982-03-29 12:29 G 19246212.84 19246213.02 19246213.22 0.0089 0.0026

Neptune 47982-06-25 16:19 G 19246300.99 19246301.18 19246301.38 0.0089 0.0014

Neptune 47982-09-21 20:10 G 19246389.14 19246389.34 19246389.54 0.0089 0.0003

Moon 47982-11-03 09:22 G 19246431.78 19246431.89 19246431.99 0.2661 0.0460

Earth 47982-11-03 10:05 G 19246431.81 19246431.92 19246432.02 0.2659 0.0435 *

Neptune 47982-12-19 00:00 G 19246477.30 19246477.50 19246477.70 0.0089 0.0009

Neptune 47983-03-17 03:36 G 19246565.46 19246565.65 19246565.85 0.0089 0.0021

Neptune 47983-06-13 07:26 G 19246653.63 19246653.81 19246654.00 0.0089 0.0032

Mars 47983-09-04 12:00 G 19246736.87 19246737.00 19246737.13 0.1645 0.1056

Neptune 47983-09-09 11:02 G 19246741.80 19246741.96 19246742.14 0.0089 0.0044

Neptune 47983-12-06 14:53 G 19246829.97 19246830.12 19246830.28 0.0089 0.0055

Neptune 47984-03-03 18:29 G 19246918.15 19246918.27 19246918.41 0.0089 0.0067

Neptune 47984-05-30 22:19 G 19247006.35 19247006.43 19247006.53 0.0089 0.0078

Jupiter 47987-07-14 23:02 G 19248146.31 19248146.46 19248146.62 0.0507 0.0275

Saturn 47990-10-16 07:55 G 19249335.74 19249335.83 19249335.93 0.0300 0.0191

Saturn 47991-01-12 20:10 G 19249424.21 19249424.34 19249424.47 0.0299 0.0013

Saturn 47991-04-11 08:10 G 19249512.74 19249512.84 19249512.95 0.0299 0.0165

Mars 47992-03-26 21:36 G 19249863.31 19249863.40 19249863.49 0.1893 0.1164

Earth 47992-05-06 02:24 G 19249903.46 19249903.60 19249903.75 0.2673 0.1145

Moon 47992-05-06 04:19 G 19249903.53 19249903.68 19249903.84 0.2674 0.0803 *

Jupiter 47993-03-13 22:48 G 19250215.34 19250215.45 19250215.56 0.0519 0.0233

Jupiter 47993-06-11 02:38 G 19250304.53 19250304.61 19250304.70 0.0517 0.0368

Moon 47995-11-06 02:53 G 19251182.52 19251182.62 19251182.72 0.2664 0.0690

Earth 47995-11-06 03:07 G 19251182.53 19251182.63 19251182.73 0.2658 0.0776 *

Venus 47997-09-01 07:12 G 19251847.68 19251847.80 19251847.92 0.3681 0.2418

Jupiter 47999-08-01 08:24 G 19252546.73 19252546.85 19252546.98 0.0508 0.0379

Venus 48000-06-06 17:17 G 19252857.18 19252857.22 19252857.27 0.3689 0.3234

49TH MILLENNIUM CE

This is a list of transits of Mercury in the 49th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Mars 48001-08-17 06:14 G 19253293.65 19253293.76 19253293.87 0.1887 0.0210

Moon 48002-10-30 04:05 G 19253732.67 19253732.67 19253732.67 0.2654 0.2649

Earth 48002-10-30 04:19 G 19253732.67 19253732.68 19253732.69 0.2661 0.2628 *

Jupiter 48004-12-31 03:22 G 19254525.56 19254525.64 19254525.72 0.0520 0.0387

Jupiter 48005-03-30 07:26 G 19254614.70 19254614.81 19254614.92 0.0518 0.0218

Earth 48005-05-09 12:00 G 19254654.89 19254655.00 19254655.12 0.2674 0.1876

Moon 48005-05-09 13:41 G 19254654.96 19254655.07 19254655.18 0.2670 0.1964 *

Uranus 48005-06-25 23:17 G 19254702.45 19254702.47 19254702.52 0.0140 0.0135

Uranus 48005-09-22 02:38 G 19254790.55 19254790.61 19254790.69 0.0140 0.0114

Uranus 48005-12-19 06:00 G 19254878.66 19254878.75 19254878.85 0.0140 0.0094

Venus 48005-12-21 08:24 G 19254880.75 19254880.85 19254880.94 0.3689 0.1057

Uranus 48006-03-17 09:22 G 19254966.78 19254966.89 19254967.00 0.0140 0.0073

Saturn 48006-04-28 01:12 G 19255008.39 19255008.55 19255008.72 0.0263 0.0144

Uranus 48006-06-13 12:43 G 19255054.91 19255055.03 19255055.15 0.0141 0.0052

Saturn 48006-07-25 22:48 G 19255097.26 19255097.45 19255097.65 0.0263 0.0040

Uranus 48006-09-09 15:50 G 19255143.04 19255143.16 19255143.29 0.0141 0.0031

Saturn 48006-10-22 20:38 G 19255186.26 19255186.36 19255186.46 0.0264 0.0225

Uranus 48006-12-06 19:12 G 19255231.17 19255231.30 19255231.43 0.0141 0.0010

Uranus 48007-03-04 22:34 G 19255319.31 19255319.44 19255319.57 0.0141 0.0011

Uranus 48007-06-01 01:41 G 19255407.45 19255407.57 19255407.70 0.0141 0.0033

Uranus 48007-08-28 05:02 G 19255495.59 19255495.71 19255495.83 0.0141 0.0053

Uranus 48007-11-24 08:24 G 19255583.74 19255583.85 19255583.96 0.0141 0.0074

Uranus 48008-02-20 11:46 G 19255671.89 19255671.99 19255672.08 0.0141 0.0096

Uranus 48008-05-18 14:53 G 19255760.06 19255760.12 19255760.20 0.0141 0.0117

Uranus 48008-08-14 18:14 G 19255848.24 19255848.26 19255848.29 0.0141 0.0138

Earth 48008-11-07 20:10 G 19255933.27 19255933.34 19255933.41 0.2657 0.1970

Moon 48008-11-07 20:24 G 19255933.28 19255933.35 19255933.41 0.2663 0.2045 *

Mars 48011-01-07 15:22 G 19256724.07 19256724.14 19256724.20 0.1882 0.1529

Jupiter 48011-05-20 04:05 G 19256856.49 19256856.67 19256856.85 0.0508 0.0152

Venus 48011-07-06 23:31 G 19256904.38 19256904.48 19256904.57 0.3689 0.1155

Mars 48013-10-13 12:14 G 19257733.86 19257734.01 19257734.17 0.1640 0.0729

Moon 48015-11-01 20:53 G 19258483.28 19258483.37 19258483.46 0.2659 0.1483

Earth 48015-11-01 21:36 G 19258483.31 19258483.40 19258483.49 0.2660 0.1407 *

Jupiter 48017-01-16 12:00 G 19258924.87 19258925.00 19258925.12 0.0518 0.0065

Venus 48017-01-19 14:24 G 19258928.06 19258928.10 19258928.14 0.3688 0.3343

Saturn 48020-03-04 11:17 G 19260067.89 19260067.97 19260068.06 0.0300 0.0226

Saturn 48020-05-31 23:31 G 19260156.35 19260156.48 19260156.61 0.0299 0.0047

Saturn 48020-08-28 11:31 G 19260244.87 19260244.98 19260245.10 0.0299 0.0130

Mars 48023-03-05 12:43 G 19261163.88 19261164.03 19261164.17 0.1645 0.0830

Jupiter 48023-03-07 23:46 G 19261166.30 19261166.49 19261166.68 0.0508 0.0073

Pluto 48025-07-25 18:00 G 19262037.14 19262037.25 19262037.40 0.0076 0.0056

Pluto 48025-10-21 20:38 G 19262125.20 19262125.36 19262125.54 0.0076 0.0035

Pluto 48026-01-17 23:02 G 19262213.28 19262213.46 19262213.66 0.0076 0.0015

Pluto 48026-04-16 01:41 G 19262301.38 19262301.57 19262301.76 0.0075 0.0006

Pluto 48026-07-13 03:50 G 19262389.49 19262389.66 19262389.85 0.0075 0.0027

Pluto 48026-10-09 06:29 G 19262477.62 19262477.77 19262477.92 0.0075 0.0047

Pluto 48027-01-05 08:24 G 19262565.79 19262565.85 19262565.96 0.0075 0.0067

Moon 48028-11-03 14:10 G 19263233.98 19263234.09 19263234.20 0.2661 0.0324

Earth 48028-11-03 14:38 G 19263234.01 19263234.11 19263234.22 0.2659 0.0212 *

Jupiter 48028-11-04 16:34 G 19263235.07 19263235.19 19263235.32 0.0518 0.0086

Jupiter 48029-02-01 20:24 G 19263324.34 19263324.35 19263324.37 0.0516 0.0510

Mars 48031-09-25 21:36 G 19264290.32 19264290.40 19264290.48 0.1893 0.1322

Jupiter 48034-12-24 19:55 G 19265476.18 19265476.33 19265476.48 0.0507 0.0292

Saturn 48035-09-15 00:58 G 19265740.41 19265740.54 19265740.68 0.0262 0.0189

Saturn 48035-12-12 22:34 G 19265829.25 19265829.44 19265829.64 0.0263 0.0008

Saturn 48036-03-10 20:10 G 19265918.21 19265918.34 19265918.49 0.0263 0.0179

Earth 48038-05-07 09:22 G 19266705.74 19266705.89 19266706.05 0.2673 0.0604

Moon 48038-05-07 11:17 G 19266705.81 19266705.97 19266706.13 0.2673 0.0499 *

Jupiter 48040-08-23 20:53 G 19267545.26 19267545.37 19267545.48 0.0519 0.0245

Jupiter 48040-11-21 00:43 G 19267634.44 19267634.53 19267634.62 0.0516 0.0355

Mars 48041-02-15 06:29 G 19267720.65 19267720.77 19267720.88 0.1887 0.0083

Moon 48041-11-06 07:41 G 19267984.72 19267984.82 19267984.92 0.2665 0.1049

Earth 48041-11-06 07:55 G 19267984.73 19267984.83 19267984.92 0.2658 0.1014 *

Uranus 48046-01-24 11:17 G 19269524.90 19269524.97 19269525.05 0.0138 0.0127

Uranus 48046-04-22 19:26 G 19269613.17 19269613.31 19269613.45 0.0138 0.0097

Uranus 48046-07-20 03:07 G 19269701.47 19269701.63 19269701.82 0.0138 0.0068

Uranus 48046-10-16 11:17 G 19269789.79 19269789.97 19269790.17 0.0137 0.0038

Jupiter 48047-01-11 06:14 G 19269876.63 19269876.76 19269876.88 0.0509 0.0377

Uranus 48047-01-12 19:26 G 19269878.11 19269878.31 19269878.51 0.0137 0.0008

Uranus 48047-04-11 03:22 G 19269966.45 19269966.64 19269966.83 0.0137 0.0022

Uranus 48047-07-08 11:17 G 19270054.79 19270054.97 19270055.15 0.0137 0.0052

Uranus 48047-10-04 18:58 G 19270143.14 19270143.29 19270143.46 0.0137 0.0081

Uranus 48048-01-01 03:07 G 19270231.52 19270231.63 19270231.75 0.0137 0.0110

Moon 48048-10-30 08:53 G 19270534.83 19270534.87 19270534.90 0.2655 0.2458

Earth 48048-10-30 09:07 G 19270534.84 19270534.88 19270534.93 0.2661 0.2390 *

Saturn 48049-07-22 14:10 G 19270800.04 19270800.09 19270800.15 0.0300 0.0268

Saturn 48049-10-19 02:24 G 19270888.48 19270888.60 19270888.72 0.0300 0.0088

Saturn 48050-01-15 14:38 G 19270976.98 19270977.11 19270977.23 0.0299 0.0091

Saturn 48050-04-14 02:24 G 19271065.55 19271065.60 19271065.66 0.0298 0.0266

Mars 48050-07-08 15:07 G 19271151.06 19271151.13 19271151.21 0.1881 0.1377

Earth 48051-05-10 19:12 G 19271457.23 19271457.30 19271457.37 0.2674 0.2428

Jupiter 48052-06-12 01:26 G 19271855.48 19271855.56 19271855.63 0.0520 0.0399

Jupiter 48052-09-09 05:17 G 19271944.61 19271944.72 19271944.84 0.0517 0.0206

Mars 48053-04-13 12:43 G 19272160.90 19272161.03 19272161.17 0.1640 0.0943

Venus 48054-04-08 09:50 G 19272520.75 19272520.91 19272521.07 0.3682 0.0401

Earth 48054-11-09 00:58 G 19272735.48 19272735.54 19272735.60 0.2657 0.2204

Moon 48054-11-09 01:12 G 19272735.49 19272735.55 19272735.61 0.2662 0.2199 *

Venus 48057-01-11 14:38 G 19273530.03 19273530.11 19273530.18 0.3689 0.2437

Jupiter 48058-10-30 01:12 G 19274186.37 19274186.55 19274186.73 0.0508 0.0141

Neptune 48061-05-11 10:48 G 19275110.91 19275110.95 19275110.99 0.0089 0.0084

Neptune 48061-08-07 11:46 G 19275198.94 19275198.99 19275199.07 0.0089 0.0077

Moon 48061-11-02 01:41 G 19275285.47 19275285.57 19275285.66 0.2659 0.1263

Earth 48061-11-02 02:24 G 19275285.50 19275285.60 19275285.69 0.2660 0.1172 *

Neptune 48061-11-03 13:12 G 19275286.98 19275287.05 19275287.14 0.0089 0.0069

Neptune 48062-01-30 14:38 G 19275375.02 19275375.11 19275375.20 0.0089 0.0061

Neptune 48062-04-28 15:36 G 19275463.06 19275463.15 19275463.27 0.0089 0.0054

Neptune 48062-07-25 17:02 G 19275551.10 19275551.21 19275551.33 0.0089 0.0046

Venus 48062-07-28 05:31 G 19275553.63 19275553.73 19275553.83 0.3689 0.0296

Mars 48062-09-03 13:26 G 19275590.90 19275591.06 19275591.22 0.1645 0.0587

Neptune 48062-10-21 18:29 G 19275639.15 19275639.27 19275639.38 0.0089 0.0038

Neptune 48063-01-17 19:26 G 19275727.20 19275727.31 19275727.44 0.0089 0.0031

Neptune 48063-04-15 20:53 G 19275815.25 19275815.37 19275815.50 0.0089 0.0023

Neptune 48063-07-12 22:05 G 19275903.30 19275903.42 19275903.55 0.0089 0.0015

Neptune 48063-10-08 23:31 G 19275991.35 19275991.48 19275991.61 0.0089 0.0008

Neptune 48064-01-05 00:43 G 19276079.40 19276079.53 19276079.66 0.0089 0.0000

Neptune 48064-04-02 01:55 G 19276167.45 19276167.58 19276167.71 0.0089 0.0008

Jupiter 48064-06-28 10:05 G 19276254.79 19276254.92 19276255.04 0.0518 0.0055

Neptune 48064-06-29 03:07 G 19276255.51 19276255.63 19276255.76 0.0089 0.0016

Neptune 48064-09-25 04:19 G 19276343.56 19276343.68 19276343.81 0.0089 0.0024

Neptune 48064-12-22 05:46 G 19276431.62 19276431.74 19276431.86 0.0089 0.0031

Saturn 48065-02-01 01:55 G 19276472.49 19276472.58 19276472.68 0.0262 0.0224

Neptune 48065-03-20 06:58 G 19276519.68 19276519.79 19276519.91 0.0089 0.0039

Saturn 48065-04-30 23:31 G 19276561.29 19276561.48 19276561.68 0.0263 0.0042

Neptune 48065-06-16 08:10 G 19276607.74 19276607.84 19276607.96 0.0089 0.0046

Saturn 48065-07-28 21:22 G 19276650.23 19276650.39 19276650.55 0.0264 0.0143

Neptune 48065-09-12 09:22 G 19276695.80 19276695.89 19276696.00 0.0089 0.0054

Neptune 48065-12-09 10:34 G 19276783.86 19276783.94 19276784.04 0.0089 0.0062

Neptune 48066-03-07 12:00 G 19276871.92 19276872.00 19276872.08 0.0089 0.0069

Neptune 48066-06-03 13:12 G 19276959.99 19276960.05 19276960.12 0.0089 0.0077

Neptune 48066-08-30 14:24 G 19277048.07 19277048.10 19277048.15 0.0089 0.0085

Venus 48068-02-10 20:38 G 19277577.28 19277577.36 19277577.45 0.3689 0.1952

Jupiter 48070-08-17 20:53 G 19278496.18 19278496.37 19278496.56 0.0507 0.0085

Mars 48071-03-26 21:36 G 19278717.33 19278717.40 19278717.47 0.1893 0.1484

Moon 48074-11-04 18:58 G 19280036.18 19280036.29 19280036.40 0.2663 0.0033

Earth 48074-11-04 19:26 G 19280036.20 19280036.31 19280036.42 0.2659 0.0040 *

Jupiter 48076-04-16 14:38 G 19280564.98 19280565.11 19280565.23 0.0518 0.0100

Jupiter 48076-07-14 18:29 G 19280654.24 19280654.27 19280654.30 0.0516 0.0498

Saturn 48079-03-08 05:46 G 19281620.62 19281620.74 19281620.86 0.0300 0.0122

Saturn 48079-06-04 18:00 G 19281709.12 19281709.25 19281709.37 0.0299 0.0057

Saturn 48079-09-01 06:00 G 19281797.67 19281797.75 19281797.82 0.0298 0.0233

Mars 48080-08-16 06:14 G 19282147.65 19282147.76 19282147.88 0.1887 0.0146

Jupiter 48082-06-05 16:19 G 19282806.04 19282806.18 19282806.33 0.0507 0.0312

Earth 48084-05-07 16:34 G 19283508.02 19283508.19 19283508.35 0.2673 0.0098

Moon 48084-05-07 18:14 G 19283508.09 19283508.26 19283508.42 0.2672 0.0244 *

Moon 48087-11-07 12:29 G 19284786.92 19284787.02 19284787.11 0.2665 0.1177

Earth 48087-11-07 12:29 G 19284786.93 19284787.02 19284787.12 0.2658 0.1242 *

Jupiter 48088-02-03 19:12 G 19284875.19 19284875.30 19284875.41 0.0519 0.0248

Jupiter 48088-05-02 23:17 G 19284964.38 19284964.47 19284964.56 0.0516 0.0351

Uranus 48089-07-16 06:29 G 19285403.73 19285403.77 19285403.81 0.0140 0.0132

Uranus 48089-10-12 09:36 G 19285491.83 19285491.90 19285491.98 0.0140 0.0111

Mars 48090-01-06 15:07 G 19285578.05 19285578.13 19285578.22 0.1882 0.1212

Uranus 48090-01-08 12:58 G 19285579.94 19285580.04 19285580.14 0.0140 0.0090

Uranus 48090-04-06 16:19 G 19285668.07 19285668.18 19285668.29 0.0140 0.0070

Uranus 48090-07-03 19:26 G 19285756.19 19285756.31 19285756.44 0.0141 0.0049

Uranus 48090-09-29 22:48 G 19285844.32 19285844.45 19285844.58 0.0141 0.0028

Uranus 48090-12-27 02:10 G 19285932.46 19285932.59 19285932.72 0.0141 0.0008

Uranus 48091-03-25 05:17 G 19286020.59 19286020.72 19286020.85 0.0141 0.0014

Uranus 48091-06-21 08:38 G 19286108.73 19286108.86 19286108.99 0.0141 0.0035

Uranus 48091-09-17 12:00 G 19286196.88 19286197.00 19286197.12 0.0141 0.0056

Uranus 48091-12-14 15:07 G 19286285.03 19286285.13 19286285.24 0.0141 0.0077

Uranus 48092-03-11 18:29 G 19286373.18 19286373.27 19286373.36 0.0141 0.0098

Uranus 48092-06-07 21:50 G 19286461.34 19286461.41 19286461.48 0.0141 0.0120

Uranus 48092-09-04 01:12 G 19286549.54 19286549.55 19286549.56 0.0141 0.0141

Mars 48092-10-12 13:41 G 19286587.95 19286588.07 19286588.18 0.1640 0.1181

Jupiter 48094-06-23 03:07 G 19287206.50 19287206.63 19287206.76 0.0509 0.0362

Saturn 48094-09-17 23:02 G 19287293.28 19287293.46 19287293.65 0.0262 0.0089

Moon 48094-10-31 13:26 G 19287337.00 19287337.06 19287337.12 0.2657 0.2170

Earth 48094-10-31 13:55 G 19287337.02 19287337.08 19287337.14 0.2661 0.2152 *

Saturn 48094-12-15 20:53 G 19287382.19 19287382.37 19287382.55 0.0263 0.0095

Jupiter 48099-11-22 23:31 G 19289185.40 19289185.48 19289185.56 0.0519 0.0407

Jupiter 48100-02-20 03:36 G 19289274.53 19289274.65 19289274.77 0.0517 0.0196

Earth 48100-11-10 05:31 G 19289537.69 19289537.73 19289537.78 0.2657 0.2435

Moon 48100-11-10 06:00 G 19289537.73 19289537.75 19289537.78 0.2662 0.2558 *

Mars 48102-03-05 14:10 G 19290017.92 19290018.09 19290018.25 0.1645 0.0363

Jupiter 48106-04-11 23:02 G 19291516.28 19291516.46 19291516.64 0.0508 0.0138

Moon 48107-11-04 06:29 G 19292087.67 19292087.77 19292087.86 0.2659 0.1044

Earth 48107-11-04 06:58 G 19292087.69 19292087.79 19292087.89 0.2660 0.0941 *

Saturn 48108-07-26 08:24 G 19292352.74 19292352.85 19292352.95 0.0300 0.0167

Saturn 48108-10-22 20:24 G 19292441.23 19292441.35 19292441.48 0.0299 0.0016

Saturn 48109-01-19 08:38 G 19292529.76 19292529.86 19292529.96 0.0299 0.0189

Mars 48110-09-25 21:22 G 19293144.34 19293144.39 19293144.45 0.1893 0.1647

Venus 48110-11-14 12:43 G 19293193.96 19293194.03 19293194.11 0.3682 0.3255

Jupiter 48111-12-10 08:10 G 19293584.71 19293584.84 19293584.97 0.0518 0.0045

Venus 48113-08-19 11:46 G 19294202.91 19294202.99 19294203.08 0.3689 0.1651

Earth 48117-05-06 13:55 G 19295559.03 19295559.08 19295559.13 0.2672 0.2512

Moon 48117-05-06 15:36 G 19295559.07 19295559.15 19295559.23 0.2675 0.2292 *

Jupiter 48118-01-28 18:14 G 19295826.08 19295826.26 19295826.45 0.0507 0.0093

Venus 48119-03-05 02:53 G 19296226.52 19296226.62 19296226.72 0.3689 0.0558

Mars 48120-02-16 06:14 G 19296574.65 19296574.76 19296574.87 0.1887 0.0283

Moon 48120-11-05 23:46 G 19296838.38 19296838.49 19296838.60 0.2664 0.0212

Earth 48120-11-06 00:14 G 19296838.40 19296838.51 19296838.61 0.2659 0.0283 *

Jupiter 48123-09-28 12:43 G 19297894.91 19297895.03 19297895.15 0.0519 0.0109

Jupiter 48123-12-26 16:34 G 19297984.16 19297984.19 19297984.23 0.0517 0.0490

Saturn 48124-02-05 23:46 G 19298025.32 19298025.49 19298025.66 0.0263 0.0127

Saturn 48124-05-04 21:22 G 19298114.20 19298114.39 19298114.58 0.0263 0.0056

Saturn 48124-08-01 18:58 G 19298203.22 19298203.29 19298203.37 0.0264 0.0242

Venus 48124-09-17 18:00 G 19298250.18 19298250.25 19298250.31 0.3688 0.2744

Mars 48129-07-08 15:07 G 19300005.04 19300005.13 19300005.23 0.1882 0.1046

Jupiter 48129-11-16 14:10 G 19300135.94 19300136.09 19300136.24 0.0507 0.0315

Uranus 48130-02-14 17:31 G 19300226.15 19300226.23 19300226.32 0.0138 0.0123

Earth 48130-05-09 23:17 G 19300310.31 19300310.47 19300310.63 0.2673 0.0479

Moon 48130-05-10 01:12 G 19300310.39 19300310.55 19300310.71 0.2670 0.0609 *

Uranus 48130-05-14 01:41 G 19300314.42 19300314.57 19300314.71 0.0138 0.0093

Uranus 48130-08-10 09:22 G 19300402.73 19300402.89 19300403.07 0.0138 0.0064

Uranus 48130-11-06 17:31 G 19300491.04 19300491.23 19300491.42 0.0137 0.0033

Uranus 48131-02-03 01:41 G 19300579.37 19300579.57 19300579.76 0.0137 0.0005

Uranus 48131-05-02 09:22 G 19300667.70 19300667.89 19300668.09 0.0137 0.0026

Uranus 48131-07-29 17:31 G 19300756.05 19300756.23 19300756.41 0.0137 0.0056

Uranus 48131-10-26 01:12 G 19300844.41 19300844.55 19300844.71 0.0137 0.0085

Uranus 48132-01-22 09:07 G 19300932.78 19300932.88 19300933.00 0.0137 0.0115

Mars 48132-04-13 14:24 G 19301015.02 19301015.10 19301015.18 0.1640 0.1423

Moon 48133-11-08 17:17 G 19301589.13 19301589.22 19301589.31 0.2664 0.1513

Earth 48133-11-08 17:17 G 19301589.13 19301589.22 19301589.31 0.2657 0.1473 *

Jupiter 48135-07-17 17:17 G 19302205.11 19302205.22 19302205.33 0.0519 0.0260

Jupiter 48135-10-14 21:22 G 19302294.30 19302294.39 19302294.48 0.0517 0.0341

Saturn 48137-12-13 11:17 G 19303084.88 19303084.97 19303085.07 0.0300 0.0206

Saturn 48138-03-11 23:31 G 19303173.35 19303173.48 19303173.61 0.0300 0.0027

Saturn 48138-06-08 11:31 G 19303261.87 19303261.98 19303262.09 0.0299 0.0152

Moon 48140-11-01 18:00 G 19304139.19 19304139.25 19304139.32 0.2657 0.2046

Earth 48140-11-01 18:43 G 19304139.20 19304139.28 19304139.35 0.2661 0.1912 *

Mars 48141-09-03 14:53 G 19304444.95 19304445.12 19304445.29 0.1645 0.0129

Jupiter 48141-12-03 23:46 G 19304536.36 19304536.49 19304536.63 0.0509 0.0344

Neptune 48145-10-10 16:19 G 19305943.10 19305943.18 19305943.29 0.0089 0.0078

Neptune 48146-01-06 20:24 G 19306031.22 19306031.35 19306031.49 0.0089 0.0066

Neptune 48146-04-05 00:00 G 19306119.36 19306119.50 19306119.67 0.0089 0.0055

Neptune 48146-07-02 03:50 G 19306207.49 19306207.66 19306207.84 0.0089 0.0043

Neptune 48146-09-28 07:26 G 19306295.64 19306295.81 19306296.01 0.0089 0.0032

Neptune 48146-12-25 11:31 G 19306383.79 19306383.98 19306384.17 0.0089 0.0020

Neptune 48147-03-23 15:07 G 19306471.94 19306472.13 19306472.33 0.0089 0.0009

Jupiter 48147-05-05 22:05 G 19306515.34 19306515.42 19306515.50 0.0519 0.0408

Neptune 48147-06-19 18:58 G 19306560.09 19306560.29 19306560.49 0.0089 0.0003

Jupiter 48147-08-03 02:10 G 19306604.47 19306604.59 19306604.71 0.0517 0.0196

Neptune 48147-09-15 22:48 G 19306648.25 19306648.45 19306648.64 0.0089 0.0015

Neptune 48147-12-13 02:10 G 19306736.42 19306736.59 19306736.79 0.0089 0.0027

Neptune 48148-03-10 06:00 G 19306824.58 19306824.75 19306824.94 0.0089 0.0038

Neptune 48148-06-06 09:36 G 19306912.75 19306912.90 19306913.08 0.0089 0.0050

Neptune 48148-09-02 13:26 G 19307000.93 19307001.06 19307001.22 0.0089 0.0061

Neptune 48148-11-29 17:02 G 19307089.12 19307089.21 19307089.34 0.0089 0.0073

Neptune 48149-02-25 20:53 G 19307177.33 19307177.37 19307177.45 0.0089 0.0084

Mars 48150-03-26 21:22 G 19307571.36 19307571.39 19307571.42 0.1893 0.1809

Saturn 48153-06-24 23:02 G 19308757.32 19308757.46 19308757.61 0.0262 0.0175

Jupiter 48153-09-21 19:55 G 19308846.15 19308846.33 19308846.52 0.0508 0.0127

Saturn 48153-09-21 20:38 G 19308846.17 19308846.36 19308846.55 0.0262 0.0007 *

Moon 48153-11-04 11:02 G 19308889.86 19308889.96 19308890.07 0.2660 0.0761

Earth 48153-11-04 11:46 G 19308889.89 19308889.99 19308890.10 0.2659 0.0699 *

Saturn 48153-12-19 18:00 G 19308935.13 19308935.25 19308935.39 0.0263 0.0191

Jupiter 48159-05-22 06:29 G 19310914.65 19310914.77 19310914.90 0.0518 0.0042

Mars 48159-08-17 06:14 G 19311001.65 19311001.76 19311001.87 0.1887 0.0450

Venus 48161-12-05 03:36 G 19311842.54 19311842.65 19311842.76 0.3681 0.2627

Earth 48163-05-07 20:53 G 19312361.26 19312361.37 19312361.48 0.2672 0.1972

Moon 48163-05-07 22:34 G 19312361.32 19312361.44 19312361.57 0.2674 0.1751 *

Venus 48164-09-09 18:00 G 19312852.20 19312852.25 19312852.31 0.3689 0.3037

Jupiter 48165-07-10 16:19 G 19313155.99 19313156.18 19313156.36 0.0508 0.0094

Moon 48166-11-07 04:34 G 19313640.58 19313640.69 19313640.79 0.2664 0.0451

Earth 48166-11-07 04:48 G 19313640.60 19313640.70 19313640.81 0.2658 0.0516 *

Saturn 48167-05-02 13:26 G 19313817.00 19313817.06 19313817.13 0.0301 0.0258

Saturn 48167-07-30 01:41 G 19313905.45 19313905.57 19313905.70 0.0300 0.0078

Saturn 48167-10-26 13:55 G 19313993.96 19313994.08 19313994.20 0.0299 0.0101

Saturn 48168-01-23 01:55 G 19314082.53 19314082.58 19314082.62 0.0299 0.0277

Mars 48169-01-06 15:07 G 19314432.03 19314432.13 19314432.23 0.1882 0.0884

Venus 48170-03-26 09:07 G 19314875.78 19314875.88 19314875.98 0.3689 0.0844

Jupiter 48171-03-10 11:02 G 19315224.84 19315224.96 19315225.09 0.0518 0.0112

Jupiter 48171-06-07 14:53 G 19315314.08 19315314.12 19315314.16 0.0516 0.0485

Uranus 48173-08-06 13:12 G 19316105.01 19316105.05 19316105.11 0.0140 0.0128

Uranus 48173-11-02 16:34 G 19316193.11 19316193.19 19316193.28 0.0140 0.0107

Uranus 48174-01-29 19:55 G 19316281.23 19316281.33 19316281.43 0.0140 0.0087

Uranus 48174-04-27 23:17 G 19316369.35 19316369.47 19316369.58 0.0140 0.0066

Uranus 48174-07-25 02:24 G 19316457.48 19316457.60 19316457.73 0.0141 0.0045

Uranus 48174-10-21 05:46 G 19316545.61 19316545.74 19316545.87 0.0141 0.0024

Uranus 48175-01-17 09:07 G 19316633.75 19316633.88 19316634.01 0.0141 0.0004

Uranus 48175-04-15 12:14 G 19316721.89 19316722.01 19316722.14 0.0141 0.0019

Uranus 48175-07-12 15:36 G 19316810.03 19316810.15 19316810.28 0.0141 0.0039

Uranus 48175-10-08 18:58 G 19316898.17 19316898.29 19316898.41 0.0141 0.0060

Venus 48175-10-10 00:14 G 19316899.41 19316899.51 19316899.60 0.3689 0.1354

Uranus 48176-01-04 22:05 G 19316986.32 19316986.42 19316986.53 0.0141 0.0081

Uranus 48176-04-02 01:26 G 19317074.48 19317074.56 19317074.65 0.0141 0.0102

Earth 48176-05-10 06:29 G 19317112.61 19317112.77 19317112.92 0.2673 0.1022

Moon 48176-05-10 08:10 G 19317112.69 19317112.84 19317112.98 0.2670 0.1281 *

Uranus 48176-06-29 04:48 G 19317162.64 19317162.70 19317162.76 0.0141 0.0123

Jupiter 48177-04-28 12:00 G 19317465.85 19317466.00 19317466.14 0.0507 0.0318

Moon 48179-11-09 22:05 G 19318391.34 19318391.42 19318391.50 0.2664 0.1718

Earth 48179-11-09 22:05 G 19318391.34 19318391.42 19318391.50 0.2657 0.1704 *

Mars 48181-03-04 15:36 G 19318871.98 19318872.15 19318872.32 0.1645 0.0106

Venus 48181-04-24 15:07 G 19318923.11 19318923.13 19318923.16 0.3688 0.3554

Saturn 48182-11-11 22:48 G 19319489.36 19319489.45 19319489.57 0.0262 0.0219

Jupiter 48182-12-27 15:36 G 19319535.04 19319535.15 19319535.26 0.0519 0.0267

Saturn 48183-02-08 20:38 G 19319578.17 19319578.36 19319578.55 0.0263 0.0037

Jupiter 48183-03-26 19:41 G 19319624.22 19319624.32 19319624.41 0.0517 0.0336

Saturn 48183-05-08 18:00 G 19319667.10 19319667.25 19319667.42 0.0263 0.0147

Pluto 48186-08-04 07:12 G 19320850.78 19320850.80 19320850.87 0.0068 0.0064

Pluto 48186-10-31 08:10 G 19320938.76 19320938.84 19320938.93 0.0068 0.0053

Moon 48186-11-02 22:48 G 19320941.37 19320941.45 19320941.53 0.2657 0.1695

Earth 48186-11-02 23:17 G 19320941.39 19320941.47 19320941.56 0.2660 0.1680 *

Pluto 48187-01-27 08:24 G 19321026.76 19321026.85 19321026.97 0.0068 0.0043

Pluto 48187-04-25 09:07 G 19321114.77 19321114.88 19321115.01 0.0068 0.0032

Pluto 48187-07-22 09:50 G 19321202.78 19321202.91 19321203.04 0.0068 0.0021

Pluto 48187-10-18 10:19 G 19321290.80 19321290.93 19321291.07 0.0068 0.0011

Pluto 48188-01-14 11:02 G 19321378.82 19321378.96 19321379.09 0.0068 0.0001

Pluto 48188-04-11 11:31 G 19321466.85 19321466.98 19321467.11 0.0068 0.0011

Pluto 48188-07-08 12:00 G 19321554.88 19321555.00 19321555.13 0.0069 0.0021

Pluto 48188-10-04 12:29 G 19321642.91 19321643.02 19321643.15 0.0069 0.0032

Pluto 48188-12-31 13:12 G 19321730.95 19321731.05 19321731.16 0.0069 0.0043

Pluto 48189-03-29 13:41 G 19321818.99 19321819.07 19321819.16 0.0069 0.0054

Jupiter 48189-05-15 22:05 G 19321866.28 19321866.42 19321866.56 0.0508 0.0348

Pluto 48189-06-25 14:10 G 19321907.06 19321907.09 19321907.14 0.0069 0.0065

Mars 48190-07-25 16:05 G 19322302.09 19322302.17 19322302.25 0.1649 0.1449

Jupiter 48194-10-15 20:10 G 19323845.27 19323845.34 19323845.42 0.0520 0.0417

Jupiter 48195-01-13 00:29 G 19323934.40 19323934.52 19323934.63 0.0517 0.0189

Saturn 48196-09-18 16:19 G 19324549.18 19324549.18 19324549.18 0.0301 0.0300

Saturn 48196-12-16 04:34 G 19324637.57 19324637.69 19324637.81 0.0300 0.0119

Saturn 48197-03-14 16:34 G 19324726.07 19324726.19 19324726.32 0.0299 0.0061

Saturn 48197-06-11 04:34 G 19324814.62 19324814.69 19324814.77 0.0299 0.0237

Mars 48199-02-15 06:14 G 19325428.65 19325428.76 19325428.87 0.1887 0.0627

Moon 48199-11-05 15:50 G 19325692.06 19325692.16 19325692.27 0.2662 0.0600

Earth 48199-11-05 16:34 G 19325692.08 19325692.19 19325692.30 0.2659 0.0461 *

Jupiter 48201-03-04 17:17 G 19326176.03 19326176.22 19326176.40 0.0508 0.0114

Jupiter 48206-11-02 05:17 G 19328244.60 19328244.72 19328244.85 0.0518 0.0046

Mars 48208-07-08 15:07 G 19328859.02 19328859.13 19328859.23 0.1882 0.0731

Earth 48209-05-09 03:50 G 19329163.52 19329163.66 19329163.79 0.2672 0.1444

Moon 48209-05-09 05:31 G 19329163.59 19329163.73 19329163.88 0.2672 0.1294 *

Saturn 48212-06-28 19:26 G 19330310.13 19330310.31 19330310.50 0.0262 0.0089

Saturn 48212-09-25 17:02 G 19330399.03 19330399.21 19330399.39 0.0262 0.0094

Moon 48212-11-08 09:22 G 19330442.79 19330442.89 19330442.99 0.2664 0.0721

Earth 48212-11-08 09:36 G 19330442.80 19330442.90 19330443.01 0.2658 0.0745 *

Jupiter 48212-12-21 13:41 G 19330485.88 19330486.07 19330486.25 0.0508 0.0102

Uranus 48214-03-07 23:31 G 19330927.40 19330927.48 19330927.59 0.0138 0.0119

Uranus 48214-06-04 07:41 G 19331015.68 19331015.82 19331015.98 0.0138 0.0089

Uranus 48214-08-31 15:50 G 19331103.98 19331104.16 19331104.34 0.0138 0.0059

Uranus 48214-11-27 23:46 G 19331192.30 19331192.49 19331192.68 0.0137 0.0029

Uranus 48215-02-24 07:41 G 19331280.63 19331280.82 19331281.02 0.0137 0.0003

Uranus 48215-05-23 15:36 G 19331368.96 19331369.15 19331369.35 0.0137 0.0031

Uranus 48215-08-19 23:31 G 19331457.31 19331457.48 19331457.66 0.0137 0.0060

Uranus 48215-11-16 07:26 G 19331545.67 19331545.81 19331545.97 0.0137 0.0089

Uranus 48216-02-12 15:07 G 19331634.05 19331634.13 19331634.24 0.0137 0.0119

Venus 48218-07-13 06:29 G 19332515.61 19332515.77 19332515.93 0.3682 0.0261

Jupiter 48218-08-21 09:50 G 19332554.79 19332554.91 19332555.03 0.0518 0.0110

Jupiter 48218-11-18 13:41 G 19332644.03 19332644.07 19332644.11 0.0516 0.0486

Mars 48220-09-03 16:19 G 19333299.01 19333299.18 19333299.34 0.1645 0.0336

Venus 48221-04-17 15:22 G 19333525.06 19333525.14 19333525.22 0.3689 0.2237

Earth 48222-05-12 13:26 G 19333914.93 19333915.06 19333915.19 0.2674 0.1565

Moon 48222-05-12 15:07 G 19333915.00 19333915.13 19333915.25 0.2670 0.1729 *

Jupiter 48224-10-09 09:50 G 19334795.77 19334795.91 19334796.06 0.0507 0.0317

Earth 48225-11-11 02:38 G 19335193.54 19335193.61 19335193.69 0.2657 0.1939

Moon 48225-11-11 03:07 G 19335193.56 19335193.63 19335193.70 0.2664 0.1979 *

Neptune 48225-11-11 09:22 G 19335193.88 19335193.89 19335193.91 0.0089 0.0088

Neptune 48226-02-07 10:34 G 19335281.90 19335281.94 19335282.00 0.0089 0.0081

Saturn 48226-05-06 06:00 G 19335369.65 19335369.75 19335369.86 0.0301 0.0180

Neptune 48226-05-06 11:46 G 19335369.93 19335369.99 19335370.07 0.0089 0.0073

Neptune 48226-08-02 13:12 G 19335457.97 19335458.05 19335458.14 0.0089 0.0065

Saturn 48226-08-02 18:14 G 19335458.13 19335458.26 19335458.39 0.0300 0.0003 *

Neptune 48226-10-29 14:24 G 19335546.01 19335546.10 19335546.21 0.0089 0.0058

Saturn 48226-10-30 06:14 G 19335546.66 19335546.76 19335546.87 0.0299 0.0178

Venus 48226-11-01 06:29 G 19335548.67 19335548.77 19335548.87 0.3689 0.0114

Neptune 48227-01-25 15:36 G 19335634.05 19335634.15 19335634.27 0.0089 0.0050

Neptune 48227-04-23 17:02 G 19335722.10 19335722.21 19335722.33 0.0089 0.0042

Neptune 48227-07-20 18:14 G 19335810.14 19335810.26 19335810.38 0.0089 0.0035

Neptune 48227-10-16 19:26 G 19335898.19 19335898.31 19335898.44 0.0089 0.0027

Neptune 48228-01-12 20:53 G 19335986.24 19335986.37 19335986.50 0.0089 0.0019

Neptune 48228-04-09 22:05 G 19336074.29 19336074.42 19336074.55 0.0089 0.0011

Neptune 48228-07-06 23:17 G 19336162.34 19336162.47 19336162.61 0.0089 0.0005

Neptune 48228-10-03 00:43 G 19336250.40 19336250.53 19336250.66 0.0089 0.0004

Neptune 48228-12-30 01:55 G 19336338.45 19336338.58 19336338.71 0.0089 0.0012

Neptune 48229-03-28 03:07 G 19336426.50 19336426.63 19336426.76 0.0089 0.0019

Neptune 48229-06-24 04:19 G 19336514.56 19336514.68 19336514.81 0.0089 0.0027

Neptune 48229-09-20 05:31 G 19336602.62 19336602.73 19336602.86 0.0089 0.0035

Neptune 48229-12-17 06:43 G 19336690.68 19336690.78 19336690.91 0.0089 0.0043

Mars 48230-01-24 16:34 G 19336729.08 19336729.19 19336729.31 0.1650 0.1225

Neptune 48230-03-15 08:10 G 19336778.74 19336778.84 19336778.95 0.0089 0.0050

Jupiter 48230-06-09 14:24 G 19336864.99 19336865.10 19336865.21 0.0519 0.0263

Neptune 48230-06-11 09:22 G 19336866.80 19336866.89 19336866.99 0.0089 0.0058

Jupiter 48230-09-06 18:14 G 19336954.17 19336954.26 19336954.36 0.0517 0.0338

Neptune 48230-09-07 10:34 G 19336954.86 19336954.94 19336955.04 0.0089 0.0065

Neptune 48230-12-04 12:00 G 19337042.93 19337043.00 19337043.07 0.0089 0.0073

Neptune 48231-03-02 12:58 G 19337131.00 19337131.04 19337131.11 0.0089 0.0081

Neptune 48231-05-29 14:38 G 19337219.10 19337219.11 19337219.12 0.0089 0.0088

Venus 48232-05-16 21:22 G 19337572.31 19337572.39 19337572.47 0.3688 0.2157

Moon 48232-11-04 03:36 G 19337743.56 19337743.65 19337743.73 0.2658 0.1581

Earth 48232-11-04 04:05 G 19337743.58 19337743.67 19337743.76 0.2660 0.1438 *

Jupiter 48236-10-26 20:10 G 19339196.21 19339196.34 19339196.48 0.0509 0.0353

Mars 48238-08-17 06:00 G 19339855.65 19339855.75 19339855.86 0.1887 0.0766

Saturn 48241-11-15 18:43 G 19341042.12 19341042.28 19341042.45 0.0262 0.0138

Saturn 48242-02-12 16:19 G 19341130.99 19341131.18 19341131.37 0.0263 0.0044

Jupiter 48242-03-28 18:43 G 19341175.21 19341175.28 19341175.36 0.0520 0.0419

Saturn 48242-05-12 13:55 G 19341219.99 19341220.08 19341220.18 0.0263 0.0228

Jupiter 48242-06-25 23:02 G 19341264.34 19341264.46 19341264.57 0.0518 0.0188

Moon 48245-11-06 20:38 G 19342494.25 19342494.36 19342494.47 0.2663 0.0248

Earth 48245-11-06 21:22 G 19342494.28 19342494.39 19342494.49 0.2659 0.0246 *

Mars 48248-01-07 15:07 G 19343286.02 19343286.13 19343286.24 0.1882 0.0554

Jupiter 48248-08-14 16:05 G 19343505.99 19343506.17 19343506.36 0.0508 0.0129

Jupiter 48254-04-14 03:50 G 19345574.53 19345574.66 19345574.79 0.0518 0.0042

Earth 48255-05-10 10:48 G 19345965.79 19345965.95 19345966.10 0.2672 0.0907

Moon 48255-05-10 12:43 G 19345965.87 19345966.03 19345966.19 0.2671 0.0590 *

Saturn 48255-09-23 08:24 G 19346101.77 19346101.85 19346101.93 0.0301 0.0228

Saturn 48255-12-20 20:38 G 19346190.23 19346190.36 19346190.49 0.0300 0.0048

Saturn 48256-03-18 08:38 G 19346278.75 19346278.86 19346278.98 0.0299 0.0131

Uranus 48257-08-27 20:24 G 19346806.30 19346806.35 19346806.42 0.0140 0.0123

Uranus 48257-11-23 23:46 G 19346894.41 19346894.49 19346894.58 0.0140 0.0103

Uranus 48258-02-20 03:07 G 19346982.53 19346982.63 19346982.74 0.0140 0.0082

Uranus 48258-05-19 06:29 G 19347070.65 19347070.77 19347070.89 0.0140 0.0061

Uranus 48258-08-15 09:36 G 19347158.78 19347158.90 19347159.03 0.0141 0.0041

Moon 48258-11-09 14:10 G 19347244.99 19347245.09 19347245.19 0.2664 0.0918

Earth 48258-11-09 14:24 G 19347245.00 19347245.10 19347245.20 0.2658 0.0976 *

Uranus 48258-11-11 12:58 G 19347246.91 19347247.04 19347247.17 0.0141 0.0019

Uranus 48259-02-07 16:19 G 19347335.05 19347335.18 19347335.31 0.0141 0.0002

Uranus 48259-05-06 19:26 G 19347423.19 19347423.31 19347423.44 0.0141 0.0023

Uranus 48259-08-02 22:48 G 19347511.33 19347511.45 19347511.58 0.0141 0.0044

Uranus 48259-10-30 02:10 G 19347599.48 19347599.59 19347599.71 0.0141 0.0065

Uranus 48260-01-26 05:17 G 19347687.63 19347687.72 19347687.83 0.0141 0.0086

Mars 48260-03-04 17:02 G 19347726.05 19347726.21 19347726.37 0.1645 0.0566

Uranus 48260-04-23 08:38 G 19347775.78 19347775.86 19347775.95 0.0141 0.0107

Jupiter 48260-06-02 11:17 G 19347815.78 19347815.97 19347816.15 0.0508 0.0107

Uranus 48260-07-20 12:00 G 19347863.95 19347864.00 19347864.05 0.0141 0.0128

Moon 48265-11-02 15:07 G 19349795.10 19349795.13 19349795.17 0.2656 0.2504

Earth 48265-11-02 15:36 G 19349795.11 19349795.15 19349795.19 0.2661 0.2423 *

Jupiter 48266-01-31 08:53 G 19349884.74 19349884.87 19349884.99 0.0518 0.0101

Jupiter 48266-04-30 12:43 G 19349974.00 19349974.03 19349974.06 0.0516 0.0495

Earth 48268-05-12 20:24 G 19350717.25 19350717.35 19350717.45 0.2674 0.2102

Moon 48268-05-12 21:36 G 19350717.32 19350717.40 19350717.49 0.2670 0.2261 *

Mars 48269-07-25 17:17 G 19351156.09 19351156.22 19351156.36 0.1650 0.0990

Saturn 48271-04-04 17:17 G 19351774.10 19351774.22 19351774.36 0.0261 0.0192

Saturn 48271-07-02 14:53 G 19351862.93 19351863.12 19351863.31 0.0262 0.0012

Saturn 48271-09-29 12:14 G 19351951.87 19351952.01 19351952.16 0.0262 0.0171

Earth 48271-11-12 07:26 G 19351995.75 19351995.81 19351995.87 0.2657 0.2170

Moon 48271-11-12 07:55 G 19351995.77 19351995.83 19351995.88 0.2664 0.2240 *

Jupiter 48272-03-21 07:41 G 19352125.68 19352125.82 19352125.97 0.0508 0.0320

Venus 48272-05-08 21:36 G 19352174.39 19352174.40 19352174.41 0.3689 0.3625

Pluto 48273-05-27 00:58 G 19352557.43 19352557.54 19352557.69 0.0076 0.0056

Pluto 48273-08-23 03:36 G 19352645.49 19352645.65 19352645.83 0.0076 0.0035

Pluto 48273-11-19 06:00 G 19352733.57 19352733.75 19352733.95 0.0076 0.0015

Pluto 48274-02-15 08:38 G 19352821.67 19352821.86 19352822.05 0.0075 0.0006

Pluto 48274-05-14 11:02 G 19352909.78 19352909.96 19352910.14 0.0075 0.0027

Pluto 48274-08-10 13:12 G 19352997.91 19352998.05 19352998.21 0.0075 0.0047

Pluto 48274-11-06 15:36 G 19353086.08 19353086.15 19353086.25 0.0075 0.0067

Venus 48275-02-17 09:22 G 19353188.80 19353188.89 19353188.98 0.3682 0.3090

Jupiter 48277-11-19 13:12 G 19354194.95 19354195.05 19354195.16 0.0519 0.0255

Venus 48277-11-22 12:43 G 19354197.94 19354198.03 19354198.12 0.3689 0.1433

Mars 48278-02-15 06:14 G 19354282.66 19354282.76 19354282.85 0.1887 0.0943

Jupiter 48278-02-16 17:17 G 19354284.13 19354284.22 19354284.31 0.0516 0.0345

Moon 48278-11-05 08:10 G 19354545.75 19354545.84 19354545.94 0.2659 0.1242

Earth 48278-11-05 08:53 G 19354545.77 19354545.87 19354545.96 0.2660 0.1206 *

Venus 48283-06-08 03:36 G 19356221.56 19356221.65 19356221.75 0.3689 0.0777

Jupiter 48284-04-07 18:43 G 19356526.15 19356526.28 19356526.41 0.0509 0.0360

Saturn 48285-02-09 09:22 G 19356833.87 19356833.89 19356833.92 0.0301 0.0296

Saturn 48285-05-08 21:50 G 19356922.29 19356922.41 19356922.53 0.0301 0.0114

Saturn 48285-08-05 09:50 G 19357010.79 19357010.91 19357011.04 0.0300 0.0067

Saturn 48285-11-01 21:50 G 19357099.35 19357099.41 19357099.49 0.0299 0.0244

Mars 48287-07-08 14:53 G 19357713.01 19357713.12 19357713.24 0.1881 0.0411

Venus 48288-12-21 18:43 G 19358245.22 19358245.28 19358245.34 0.3688 0.2967

Jupiter 48289-09-07 17:46 G 19358505.17 19358505.24 19358505.32 0.0519 0.0408

Jupiter 48289-12-05 21:50 G 19358594.30 19358594.41 19358594.53 0.0517 0.0197

Moon 48291-11-08 01:26 G 19359296.45 19359296.56 19359296.67 0.2663 0.0132

Earth 48291-11-08 01:55 G 19359296.48 19359296.58 19359296.69 0.2659 0.0096 *

Jupiter 48296-01-25 14:53 G 19360835.94 19360836.12 19360836.30 0.0508 0.0138

Mars 48296-11-27 23:46 G 19361143.45 19361143.49 19361143.54 0.1876 0.1733

Uranus 48298-03-28 06:14 G 19361628.66 19361628.76 19361628.88 0.0138 0.0113

Uranus 48298-06-24 14:24 G 19361716.95 19361717.10 19361717.26 0.0138 0.0083

Uranus 48298-09-20 22:19 G 19361805.26 19361805.43 19361805.62 0.0138 0.0053

Uranus 48298-12-18 06:29 G 19361893.58 19361893.77 19361893.96 0.0137 0.0023

Uranus 48299-03-16 14:24 G 19361981.90 19361982.10 19361982.30 0.0137 0.0006

Uranus 48299-06-12 22:19 G 19362070.24 19362070.43 19362070.62 0.0137 0.0036

Mars 48299-09-03 17:46 G 19362153.10 19362153.24 19362153.39 0.1645 0.0811

Uranus 48299-09-09 06:14 G 19362158.59 19362158.76 19362158.94 0.0137 0.0065

Uranus 48299-12-06 13:55 G 19362246.95 19362247.08 19362247.24 0.0137 0.0095

Uranus 48300-03-04 21:50 G 19362335.34 19362335.41 19362335.50 0.0137 0.0124

Saturn 48300-08-22 15:50 G 19362506.11 19362506.16 19362506.24 0.0261 0.0247

Saturn 48300-11-19 13:26 G 19362594.88 19362595.06 19362595.25 0.0262 0.0066

Saturn 48301-02-16 11:02 G 19362683.79 19362683.96 19362684.13 0.0262 0.0117

Earth 48301-05-11 17:46 G 19362768.07 19362768.24 19362768.40 0.2673 0.0373

Moon 48301-05-11 19:41 G 19362768.15 19362768.32 19362768.48 0.2671 0.0248 *

Jupiter 48301-09-25 02:24 G 19362904.48 19362904.60 19362904.73 0.0518 0.0049

Moon 48304-11-10 19:12 G 19364047.20 19364047.30 19364047.39 0.2665 0.1264

Earth 48304-11-10 19:12 G 19364047.20 19364047.30 19364047.39 0.2658 0.1210 *

Jupiter 48307-11-14 10:48 G 19365145.76 19365145.95 19365146.14 0.0508 0.0083

Mars 48309-01-24 18:14 G 19365583.11 19365583.26 19365583.41 0.1649 0.0754

Neptune 48310-04-12 11:46 G 19366025.93 19366025.99 19366026.06 0.0089 0.0083

Neptune 48310-07-09 15:07 G 19366114.03 19366114.13 19366114.26 0.0089 0.0072

Neptune 48310-10-05 18:58 G 19366202.16 19366202.29 19366202.45 0.0089 0.0060

Neptune 48311-01-01 22:48 G 19366290.30 19366290.45 19366290.63 0.0089 0.0049

Neptune 48311-03-31 02:24 G 19366378.44 19366378.60 19366378.80 0.0089 0.0038

Neptune 48311-06-27 06:29 G 19366466.58 19366466.77 19366466.96 0.0089 0.0026

Neptune 48311-09-23 10:05 G 19366554.74 19366554.92 19366555.13 0.0089 0.0015

Moon 48311-11-04 19:55 G 19366597.27 19366597.33 19366597.39 0.2656 0.2228

Earth 48311-11-04 20:24 G 19366597.29 19366597.35 19366597.41 0.2661 0.2184 *

Neptune 48311-12-20 14:10 G 19366642.89 19366643.09 19366643.29 0.0089 0.0003

Neptune 48312-03-17 17:46 G 19366731.05 19366731.24 19366731.44 0.0089 0.0009

Neptune 48312-06-13 21:22 G 19366819.21 19366819.39 19366819.59 0.0089 0.0021

Neptune 48312-09-10 01:12 G 19366907.37 19366907.55 19366907.74 0.0089 0.0032

Neptune 48312-12-07 04:48 G 19366995.54 19366995.70 19366995.89 0.0089 0.0044

Neptune 48313-03-05 08:53 G 19367083.72 19367083.87 19367084.02 0.0089 0.0055

Neptune 48313-06-01 12:14 G 19367171.90 19367172.01 19367172.16 0.0089 0.0067

Jupiter 48313-07-14 07:26 G 19367214.69 19367214.81 19367214.94 0.0518 0.0100

Neptune 48313-08-28 16:19 G 19367260.09 19367260.18 19367260.27 0.0089 0.0078

Jupiter 48313-10-11 11:17 G 19367303.94 19367303.97 19367304.00 0.0516 0.0497

Earth 48314-05-15 03:22 G 19367519.62 19367519.64 19367519.66 0.2674 0.2647

Saturn 48314-09-26 23:31 G 19367654.38 19367654.48 19367654.59 0.0301 0.0169

Saturn 48314-12-24 11:46 G 19367742.87 19367742.99 19367743.12 0.0300 0.0015

Saturn 48315-03-23 00:00 G 19367831.40 19367831.50 19367831.60 0.0299 0.0190

Mars 48317-08-17 06:14 G 19368709.66 19368709.76 19368709.85 0.1887 0.1107

Earth 48317-11-13 12:14 G 19368797.97 19368798.01 19368798.05 0.2657 0.2398

Moon 48317-11-13 12:29 G 19368797.98 19368798.02 19368798.07 0.2663 0.2426 *

Jupiter 48319-09-02 05:46 G 19369455.60 19369455.74 19369455.89 0.0507 0.0319

Moon 48324-11-06 12:58 G 19371347.94 19371348.04 19371348.14 0.2661 0.1089

Earth 48324-11-06 13:41 G 19371347.97 19371348.07 19371348.17 0.2660 0.0972 *

Jupiter 48325-05-02 12:29 G 19371524.91 19371525.02 19371525.13 0.0519 0.0241

Jupiter 48325-07-30 16:34 G 19371614.10 19371614.19 19371614.28 0.0516 0.0359

Venus 48326-03-11 00:00 G 19371837.40 19371837.50 19371837.60 0.3682 0.2843

Mars 48327-01-07 14:53 G 19372140.01 19372140.12 19372140.24 0.1882 0.0249

Venus 48328-12-14 18:58 G 19372847.23 19372847.29 19372847.35 0.3689 0.2822

Saturn 48330-04-08 11:46 G 19373326.82 19373326.99 19373327.16 0.0261 0.0123

Saturn 48330-07-06 09:07 G 19373415.70 19373415.88 19373416.07 0.0262 0.0059

Saturn 48330-10-03 06:29 G 19373504.71 19373504.77 19373504.86 0.0262 0.0242

Jupiter 48331-09-19 16:48 G 19373856.07 19373856.20 19373856.33 0.0509 0.0362

Moon 48334-05-09 17:17 G 19374819.21 19374819.22 19374819.23 0.2672 0.2664

Venus 48334-06-30 09:50 G 19374870.82 19374870.91 19374871.01 0.3689 0.0646

Mars 48336-05-29 23:46 G 19375570.43 19375570.49 19375570.55 0.1876 0.1567

Jupiter 48337-02-18 17:02 G 19375835.13 19375835.21 19375835.29 0.0519 0.0394

Jupiter 48337-05-18 21:07 G 19375924.27 19375924.38 19375924.50 0.0517 0.0209

Moon 48337-11-09 06:14 G 19376098.65 19376098.76 19376098.87 0.2663 0.0232

Earth 48337-11-09 06:43 G 19376098.67 19376098.78 19376098.89 0.2659 0.0242 *

Mars 48339-03-05 18:29 G 19376580.13 19376580.27 19376580.40 0.1645 0.1030

Venus 48340-01-14 00:58 G 19376894.45 19376894.54 19376894.63 0.3688 0.1573

Uranus 48341-06-22 00:29 G 19377419.51 19377419.52 19377419.54 0.0140 0.0139

Uranus 48341-09-18 03:50 G 19377507.59 19377507.66 19377507.73 0.0140 0.0118

Uranus 48341-12-15 06:58 G 19377595.71 19377595.79 19377595.89 0.0140 0.0098

Uranus 48342-03-13 10:19 G 19377683.83 19377683.93 19377684.04 0.0141 0.0077

Uranus 48342-06-09 13:41 G 19377771.95 19377772.07 19377772.19 0.0141 0.0056

Uranus 48342-09-05 16:48 G 19377860.08 19377860.20 19377860.33 0.0141 0.0036

Uranus 48342-12-02 20:10 G 19377948.21 19377948.34 19377948.47 0.0141 0.0015

Uranus 48343-02-28 23:31 G 19378036.35 19378036.48 19378036.61 0.0141 0.0007

Uranus 48343-05-28 02:53 G 19378124.49 19378124.62 19378124.74 0.0141 0.0028

Jupiter 48343-07-08 13:26 G 19378165.88 19378166.06 19378166.24 0.0509 0.0149

Uranus 48343-08-24 06:00 G 19378212.63 19378212.75 19378212.88 0.0141 0.0049

Uranus 48343-11-20 09:22 G 19378300.78 19378300.89 19378301.00 0.0141 0.0070

Saturn 48344-02-14 00:14 G 19378386.44 19378386.51 19378386.59 0.0301 0.0242

Uranus 48344-02-16 12:43 G 19378388.93 19378389.03 19378389.13 0.0141 0.0091

Saturn 48344-05-12 12:29 G 19378474.90 19378475.02 19378475.15 0.0301 0.0061

Uranus 48344-05-14 15:50 G 19378477.09 19378477.16 19378477.25 0.0141 0.0113

Saturn 48344-08-09 00:43 G 19378563.41 19378563.53 19378563.65 0.0300 0.0120

Uranus 48344-08-10 19:12 G 19378565.27 19378565.30 19378565.35 0.0141 0.0134

Saturn 48344-11-05 12:43 G 19378652.02 19378652.03 19378652.05 0.0299 0.0297

Earth 48347-05-13 00:43 G 19379570.37 19379570.53 19379570.69 0.2673 0.0176

Moon 48347-05-13 02:24 G 19379570.44 19379570.60 19379570.77 0.2671 0.0502 *

Mars 48348-07-25 18:43 G 19380010.12 19380010.28 19380010.44 0.1650 0.0529

Jupiter 48349-03-07 01:41 G 19380234.45 19380234.57 19380234.70 0.0518 0.0063

Moon 48350-11-12 00:00 G 19380849.41 19380849.50 19380849.59 0.2665 0.1396

Earth 48350-11-11 23:46 G 19380849.41 19380849.49 19380849.58 0.2658 0.1444 *

Jupiter 48355-04-26 09:50 G 19382475.72 19382475.91 19382476.10 0.0508 0.0069

Mars 48357-02-15 06:00 G 19383136.67 19383136.75 19383136.83 0.1887 0.1254

Moon 48357-11-05 00:43 G 19383399.46 19383399.53 19383399.60 0.2657 0.2012

Earth 48357-11-05 01:12 G 19383399.48 19383399.55 19383399.62 0.2661 0.1950 *

Saturn 48359-08-26 09:50 G 19384058.78 19384058.91 19384059.05 0.0261 0.0182

Saturn 48359-11-23 07:12 G 19384147.61 19384147.80 19384148.00 0.0262 0.0007

Saturn 48360-02-20 04:34 G 19384236.56 19384236.69 19384236.84 0.0262 0.0182

Jupiter 48360-12-24 06:29 G 19384544.64 19384544.77 19384544.89 0.0518 0.0093

Jupiter 48361-03-23 10:19 G 19384633.91 19384633.93 19384633.95 0.0516 0.0505

Earth 48363-11-14 17:02 G 19385600.19 19385600.21 19385600.22 0.2657 0.2630

Mars 48366-07-08 14:53 G 19386567.01 19386567.12 19386567.24 0.1882 0.0102

Jupiter 48367-02-12 06:00 G 19386785.59 19386785.75 19386785.90 0.0507 0.0287

Moon 48370-11-07 17:46 G 19388150.13 19388150.24 19388150.34 0.2662 0.0810

Earth 48370-11-07 18:14 G 19388150.16 19388150.26 19388150.37 0.2660 0.0738 *

Jupiter 48372-10-12 11:17 G 19388854.86 19388854.97 19388855.09 0.0519 0.0237

Jupiter 48373-01-09 15:22 G 19388944.05 19388944.14 19388944.23 0.0517 0.0365

Saturn 48373-07-03 01:55 G 19389118.57 19389118.58 19389118.59 0.0301 0.0300

Saturn 48373-09-29 14:10 G 19389206.98 19389207.09 19389207.21 0.0300 0.0118

Saturn 48373-12-27 02:24 G 19389295.48 19389295.60 19389295.73 0.0300 0.0062

Saturn 48374-03-25 14:38 G 19389384.03 19389384.11 19389384.18 0.0299 0.0240

Mars 48375-11-28 23:46 G 19389997.42 19389997.49 19389997.57 0.1876 0.1402

Mars 48378-09-03 19:12 G 19391007.19 19391007.30 19391007.40 0.1645 0.1264

Jupiter 48379-03-01 15:07 G 19391186.00 19391186.13 19391186.26 0.0509 0.0367

Earth 48380-05-09 22:05 G 19391621.34 19391621.42 19391621.51 0.2672 0.2266

Moon 48380-05-10 00:14 G 19391621.40 19391621.51 19391621.61 0.2672 0.1962 *

Uranus 48382-01-20 05:31 G 19392241.71 19392241.73 19392241.78 0.0138 0.0135

Uranus 48382-04-18 13:41 G 19392329.95 19392330.07 19392330.20 0.0138 0.0105

Uranus 48382-07-15 21:50 G 19392418.25 19392418.41 19392418.58 0.0138 0.0075

Uranus 48382-10-12 05:46 G 19392506.56 19392506.74 19392506.93 0.0137 0.0045

Venus 48382-10-16 02:53 G 19392510.46 19392510.62 19392510.78 0.3682 0.0044

Uranus 48383-01-08 13:41 G 19392594.88 19392595.07 19392595.27 0.0137 0.0016

Uranus 48383-04-06 21:36 G 19392683.21 19392683.40 19392683.60 0.0137 0.0015

Uranus 48383-07-04 05:31 G 19392771.55 19392771.73 19392771.92 0.0137 0.0044

Uranus 48383-09-30 13:26 G 19392859.90 19392860.06 19392860.23 0.0137 0.0073

Moon 48383-11-10 11:17 G 19392900.86 19392900.97 19392901.07 0.2664 0.0404

Earth 48383-11-10 11:31 G 19392900.87 19392900.98 19392901.09 0.2659 0.0477 *

Uranus 48383-12-27 21:22 G 19392948.27 19392948.39 19392948.52 0.0137 0.0102

Uranus 48384-03-25 05:02 G 19393036.67 19393036.71 19393036.77 0.0137 0.0132

Jupiter 48384-07-31 16:34 G 19393165.10 19393165.19 19393165.27 0.0519 0.0377

Jupiter 48384-10-28 20:38 G 19393254.24 19393254.36 19393254.47 0.0517 0.0227

Venus 48385-07-21 16:05 G 19393520.09 19393520.17 19393520.26 0.3689 0.2024

Mars 48388-01-24 19:26 G 19394437.15 19394437.31 19394437.48 0.1649 0.0294

Saturn 48389-01-12 07:55 G 19394790.77 19394790.83 19394790.91 0.0261 0.0240

Saturn 48389-04-11 05:31 G 19394879.54 19394879.73 19394879.92 0.0261 0.0060

Saturn 48389-07-09 02:53 G 19394968.45 19394968.62 19394968.79 0.0262 0.0121

Neptune 48390-08-09 09:07 G 19395364.86 19395364.88 19395364.93 0.0089 0.0085

Neptune 48390-11-05 10:34 G 19395452.88 19395452.94 19395453.01 0.0089 0.0077

Jupiter 48390-12-18 11:46 G 19395495.81 19395495.99 19395496.17 0.0509 0.0154

Neptune 48391-02-01 12:00 G 19395540.92 19395541.00 19395541.08 0.0089 0.0069

Venus 48391-02-04 07:12 G 19395543.70 19395543.80 19395543.90 0.3689 0.0182

Neptune 48391-04-30 12:58 G 19395628.96 19395629.04 19395629.14 0.0089 0.0062

Neptune 48391-07-27 14:24 G 19395717.00 19395717.10 19395717.21 0.0089 0.0054

Neptune 48391-10-23 15:22 G 19395805.04 19395805.14 19395805.27 0.0089 0.0047

Neptune 48392-01-19 16:48 G 19395893.09 19395893.20 19395893.33 0.0089 0.0039

Neptune 48392-04-16 18:14 G 19395981.14 19395981.26 19395981.38 0.0089 0.0031

Neptune 48392-07-13 19:26 G 19396069.19 19396069.31 19396069.44 0.0089 0.0023

Neptune 48392-10-09 20:38 G 19396157.24 19396157.36 19396157.49 0.0089 0.0016

Neptune 48393-01-05 22:05 G 19396245.29 19396245.42 19396245.55 0.0089 0.0008

Neptune 48393-04-03 23:17 G 19396333.34 19396333.47 19396333.60 0.0089 0.0000

Earth 48393-05-13 07:41 G 19396372.66 19396372.82 19396372.98 0.2673 0.0719

Moon 48393-05-13 09:22 G 19396372.73 19396372.89 19396373.05 0.2670 0.0796 *

Neptune 48393-07-01 00:29 G 19396421.39 19396421.52 19396421.65 0.0089 0.0008

Neptune 48393-09-27 01:41 G 19396509.45 19396509.57 19396509.70 0.0089 0.0015

Neptune 48393-12-24 03:07 G 19396597.50 19396597.63 19396597.75 0.0089 0.0023

Neptune 48394-03-22 04:05 G 19396685.56 19396685.67 19396685.80 0.0089 0.0031

Neptune 48394-06-18 05:31 G 19396773.61 19396773.73 19396773.85 0.0089 0.0038

Neptune 48394-09-14 06:43 G 19396861.67 19396861.78 19396861.90 0.0089 0.0046

Neptune 48394-12-11 07:55 G 19396949.73 19396949.83 19396949.94 0.0089 0.0054

Neptune 48395-03-09 09:22 G 19397037.80 19397037.89 19397037.98 0.0089 0.0061

Neptune 48395-06-05 10:19 G 19397125.86 19397125.93 19397126.02 0.0089 0.0069

Neptune 48395-09-01 11:31 G 19397213.93 19397213.98 19397214.06 0.0089 0.0077

Neptune 48395-11-28 12:58 G 19397302.01 19397302.04 19397302.09 0.0089 0.0084

Mars 48396-08-16 06:00 G 19397563.68 19397563.75 19397563.82 0.1887 0.1422

Jupiter 48396-08-17 01:12 G 19397564.43 19397564.55 19397564.68 0.0517 0.0077

Venus 48396-08-19 22:19 G 19397567.35 19397567.43 19397567.50 0.3688 0.2381

Earth 48396-11-12 04:34 G 19397651.61 19397651.69 19397651.77 0.2658 0.1671

Moon 48396-11-12 04:48 G 19397651.62 19397651.70 19397651.78 0.2665 0.1754 *

Jupiter 48402-10-06 08:38 G 19399805.67 19399805.86 19399806.05 0.0508 0.0056

Saturn 48403-02-16 14:38 G 19399939.01 19399939.11 19399939.21 0.0301 0.0195

Saturn 48403-05-16 02:53 G 19400027.49 19400027.62 19400027.75 0.0301 0.0014

Saturn 48403-08-12 14:53 G 19400116.02 19400116.12 19400116.23 0.0300 0.0166

Moon 48403-11-06 05:17 G 19400201.64 19400201.72 19400201.80 0.2658 0.1819

Earth 48403-11-06 06:00 G 19400201.66 19400201.75 19400201.83 0.2661 0.1714 *

Mars 48406-01-06 14:53 G 19400994.01 19400994.12 19400994.23 0.1881 0.0082

Jupiter 48408-06-05 05:46 G 19401874.62 19401874.74 19401874.87 0.0518 0.0076

Jupiter 48414-07-25 05:02 G 19404115.56 19404115.71 19404115.87 0.0507 0.0270

Mars 48415-05-29 23:46 G 19404424.41 19404424.49 19404424.57 0.1876 0.1251

Moon 48416-11-07 22:19 G 19404952.33 19404952.43 19404952.54 0.2662 0.0603

Earth 48416-11-07 23:02 G 19404952.36 19404952.46 19404952.57 0.2660 0.0499 *

Mars 48418-03-04 19:55 G 19405434.26 19405434.33 19405434.40 0.1645 0.1502

Saturn 48418-08-29 03:07 G 19405611.46 19405611.63 19405611.81 0.0261 0.0122

Saturn 48418-11-26 00:29 G 19405700.34 19405700.52 19405700.71 0.0262 0.0059

Saturn 48419-02-22 21:50 G 19405789.35 19405789.41 19405789.49 0.0262 0.0242

Jupiter 48420-03-24 10:19 G 19406184.82 19406184.93 19406185.05 0.0519 0.0227

Jupiter 48420-06-21 14:24 G 19406274.01 19406274.10 19406274.18 0.0517 0.0374

Uranus 48425-07-12 07:41 G 19408120.79 19408120.82 19408120.86 0.0140 0.0134

Uranus 48425-10-08 11:02 G 19408208.89 19408208.96 19408209.04 0.0140 0.0114

Uranus 48426-01-04 14:24 G 19408297.00 19408297.10 19408297.19 0.0141 0.0093

Uranus 48426-04-02 17:31 G 19408385.12 19408385.23 19408385.34 0.0141 0.0072

Earth 48426-05-11 05:17 G 19408423.59 19408423.72 19408423.84 0.2672 0.1728

Moon 48426-05-11 07:12 G 19408423.67 19408423.80 19408423.93 0.2672 0.1565 *

Jupiter 48426-05-13 01:26 G 19408425.51 19408425.56 19408425.61 0.0507 0.0486

Uranus 48426-06-29 20:53 G 19408473.25 19408473.37 19408473.49 0.0141 0.0051

Jupiter 48426-08-11 15:36 G 19408516.04 19408516.15 19408516.27 0.0509 0.0403

Uranus 48426-09-26 00:00 G 19408561.38 19408561.50 19408561.63 0.0141 0.0031

Uranus 48426-12-23 03:22 G 19408649.51 19408649.64 19408649.77 0.0141 0.0010

Uranus 48427-03-21 06:43 G 19408737.65 19408737.78 19408737.91 0.0141 0.0012

Uranus 48427-06-17 10:05 G 19408825.79 19408825.92 19408826.04 0.0141 0.0033

Mars 48427-07-25 20:10 G 19408864.18 19408864.34 19408864.51 0.1649 0.0071

Uranus 48427-09-13 13:12 G 19408913.93 19408914.05 19408914.17 0.0141 0.0054

Uranus 48427-12-10 16:34 G 19409002.08 19409002.19 19409002.30 0.0141 0.0075

Uranus 48428-03-07 19:41 G 19409090.24 19409090.32 19409090.42 0.0141 0.0097

Uranus 48428-06-03 23:02 G 19409178.40 19409178.46 19409178.54 0.0141 0.0118

Uranus 48428-08-31 02:38 G 19409266.59 19409266.61 19409266.63 0.0142 0.0139

Moon 48429-11-10 16:05 G 19409703.06 19409703.17 19409703.27 0.2665 0.0708

Earth 48429-11-10 16:19 G 19409703.07 19409703.18 19409703.28 0.2659 0.0710 *

Jupiter 48432-01-11 15:22 G 19410495.06 19410495.14 19410495.23 0.0519 0.0370

Jupiter 48432-04-09 19:26 G 19410584.20 19410584.31 19410584.42 0.0517 0.0235

Saturn 48432-07-05 15:50 G 19410671.10 19410671.16 19410671.23 0.0301 0.0257

Saturn 48432-10-02 04:19 G 19410759.55 19410759.68 19410759.80 0.0300 0.0075

Saturn 48432-12-29 16:34 G 19410848.07 19410848.19 19410848.31 0.0300 0.0105

Saturn 48433-03-28 04:34 G 19410936.65 19410936.69 19410936.73 0.0299 0.0282

Pluto 48434-06-05 16:48 G 19411371.15 19411371.20 19411371.28 0.0068 0.0060

Pluto 48434-09-01 17:31 G 19411459.15 19411459.23 19411459.33 0.0068 0.0049

Pluto 48434-11-28 18:14 G 19411547.15 19411547.26 19411547.37 0.0068 0.0038

Pluto 48435-02-24 18:43 G 19411635.16 19411635.28 19411635.41 0.0068 0.0028

Pluto 48435-05-23 19:26 G 19411723.18 19411723.31 19411723.44 0.0068 0.0017

Pluto 48435-08-19 19:55 G 19411811.20 19411811.33 19411811.47 0.0068 0.0007

Pluto 48435-11-15 20:24 G 19411899.22 19411899.35 19411899.49 0.0068 0.0005

Pluto 48436-02-11 21:07 G 19411987.25 19411987.38 19411987.51 0.0068 0.0015

Mars 48436-02-15 06:00 G 19411990.69 19411990.75 19411990.81 0.1887 0.1593

Pluto 48436-05-09 21:36 G 19412075.28 19412075.40 19412075.53 0.0069 0.0026

Pluto 48436-08-05 22:05 G 19412163.31 19412163.42 19412163.54 0.0069 0.0037

Venus 48436-08-11 22:19 G 19412169.40 19412169.43 19412169.47 0.3689 0.3416

Pluto 48436-11-01 22:19 G 19412251.35 19412251.43 19412251.54 0.0069 0.0048

Mars 48436-12-14 20:38 G 19412294.33 19412294.36 19412294.38 0.1654 0.1629

Pluto 48437-01-28 23:02 G 19412339.40 19412339.46 19412339.54 0.0069 0.0059

Jupiter 48438-05-30 10:19 G 19412825.75 19412825.93 19412826.11 0.0509 0.0163

Earth 48439-05-14 14:38 G 19413174.97 19413175.11 19413175.25 0.2673 0.1254

Moon 48439-05-14 16:05 G 19413175.03 19413175.17 19413175.30 0.2668 0.1506 *

Venus 48439-05-23 05:46 G 19413183.64 19413183.74 19413183.84 0.3682 0.2912

Venus 48442-02-25 13:26 G 19414192.97 19414193.06 19414193.15 0.3689 0.1216

Earth 48442-11-13 09:22 G 19414453.81 19414453.89 19414453.96 0.2658 0.1903

Moon 48442-11-13 09:36 G 19414453.82 19414453.90 19414453.97 0.2664 0.1887 *

Jupiter 48443-10-30 20:24 G 19414805.34 19414805.35 19414805.37 0.0520 0.0511

Jupiter 48444-01-28 00:43 G 19414894.41 19414894.53 19414894.65 0.0518 0.0096

Mars 48445-07-07 14:53 G 19415421.00 19415421.12 19415421.23 0.1882 0.0242

Venus 48447-09-11 04:34 G 19416216.59 19416216.69 19416216.78 0.3689 0.0988

Saturn 48448-01-16 01:12 G 19416343.42 19416343.55 19416343.69 0.0261 0.0181

Saturn 48448-04-13 22:34 G 19416432.25 19416432.44 19416432.64 0.0261 0.0003

Saturn 48448-07-11 19:55 G 19416521.20 19416521.33 19416521.47 0.0262 0.0180

Moon 48449-11-06 09:50 G 19417003.83 19417003.91 19417004.00 0.2660 0.1519

Earth 48449-11-06 10:34 G 19417003.85 19417003.94 19417004.03 0.2661 0.1477 *

Jupiter 48450-03-18 06:58 G 19417135.60 19417135.79 19417135.98 0.0508 0.0050

Venus 48453-03-26 19:26 G 19418240.27 19418240.31 19418240.36 0.3688 0.3190

Mars 48454-11-27 23:46 G 19418851.40 19418851.49 19418851.58 0.1876 0.1077

Jupiter 48455-11-16 05:17 G 19419204.60 19419204.72 19419204.85 0.0518 0.0055

Jupiter 48462-01-04 03:50 G 19421445.50 19421445.66 19421445.83 0.0508 0.0257

Saturn 48462-02-19 04:34 G 19421491.58 19421491.69 19421491.80 0.0301 0.0153

Saturn 48462-05-18 16:48 G 19421580.07 19421580.20 19421580.33 0.0301 0.0028

Saturn 48462-08-15 05:02 G 19421668.61 19421668.71 19421668.80 0.0300 0.0207

Moon 48462-11-09 03:22 G 19421754.53 19421754.64 19421754.74 0.2662 0.0366

Earth 48462-11-09 03:50 G 19421754.55 19421754.66 19421754.77 0.2660 0.0263 *

Uranus 48466-02-09 13:12 G 19422942.99 19422943.05 19422943.15 0.0138 0.0126

Uranus 48466-05-08 21:22 G 19423031.26 19423031.39 19423031.54 0.0138 0.0096

Uranus 48466-08-05 05:31 G 19423119.56 19423119.73 19423119.90 0.0138 0.0066

Uranus 48466-11-01 13:26 G 19423207.87 19423208.06 19423208.25 0.0137 0.0036

Mars 48467-01-23 20:53 G 19423291.20 19423291.37 19423291.54 0.1650 0.0169

Uranus 48467-01-28 21:22 G 19423296.20 19423296.39 19423296.59 0.0137 0.0007

Uranus 48467-04-27 05:17 G 19423384.53 19423384.72 19423384.92 0.0137 0.0023

Uranus 48467-07-24 13:12 G 19423472.87 19423473.05 19423473.23 0.0137 0.0052

Jupiter 48467-09-04 10:05 G 19423514.80 19423514.92 19423515.03 0.0518 0.0205

Uranus 48467-10-20 20:53 G 19423561.22 19423561.37 19423561.54 0.0137 0.0082

Jupiter 48467-12-02 13:55 G 19423604.00 19423604.08 19423604.16 0.0516 0.0394

Uranus 48468-01-17 04:48 G 19423649.60 19423649.70 19423649.82 0.0137 0.0111

Earth 48472-05-11 12:00 G 19425225.86 19425226.00 19425226.15 0.2672 0.1203

Moon 48472-05-11 13:55 G 19425225.93 19425226.08 19425226.23 0.2672 0.0960 *

Jupiter 48473-10-23 00:29 G 19425755.46 19425755.52 19425755.60 0.0507 0.0468

Jupiter 48474-01-21 14:53 G 19425846.02 19425846.12 19425846.23 0.0509 0.0423

Neptune 48475-01-07 09:50 G 19426196.84 19426196.91 19426197.02 0.0088 0.0079

Neptune 48475-04-05 13:41 G 19426284.96 19426285.07 19426285.22 0.0089 0.0067

Neptune 48475-07-02 17:17 G 19426373.09 19426373.22 19426373.40 0.0089 0.0056

Mars 48475-08-16 05:46 G 19426417.70 19426417.74 19426417.79 0.1887 0.1732

Neptune 48475-09-28 21:22 G 19426461.23 19426461.39 19426461.57 0.0089 0.0044

Moon 48475-11-11 20:53 G 19426505.27 19426505.37 19426505.47 0.2666 0.0915

Earth 48475-11-11 20:53 G 19426505.27 19426505.37 19426505.47 0.2658 0.0946 *

Neptune 48475-12-26 00:58 G 19426549.37 19426549.54 19426549.74 0.0089 0.0033

Neptune 48476-03-23 05:02 G 19426637.52 19426637.71 19426637.91 0.0089 0.0021

Mars 48476-06-14 21:22 G 19426721.30 19426721.39 19426721.48 0.1654 0.1389

Neptune 48476-06-19 08:38 G 19426725.67 19426725.86 19426726.07 0.0089 0.0010

Neptune 48476-09-15 12:29 G 19426813.83 19426814.02 19426814.22 0.0089 0.0003

Neptune 48476-12-12 16:19 G 19426901.99 19426902.18 19426902.38 0.0089 0.0014

Neptune 48477-03-10 19:55 G 19426990.15 19426990.33 19426990.53 0.0089 0.0026

Saturn 48477-06-03 22:48 G 19427075.39 19427075.45 19427075.52 0.0261 0.0244

Neptune 48477-06-06 23:31 G 19427078.32 19427078.48 19427078.68 0.0089 0.0038

Saturn 48477-08-31 20:10 G 19427164.15 19427164.34 19427164.53 0.0261 0.0065

Neptune 48477-09-03 03:22 G 19427166.49 19427166.64 19427166.82 0.0089 0.0049

Saturn 48477-11-28 17:31 G 19427253.06 19427253.23 19427253.41 0.0262 0.0117

Neptune 48477-11-30 06:58 G 19427254.67 19427254.79 19427254.95 0.0089 0.0061

Neptune 48478-02-26 10:48 G 19427342.85 19427342.95 19427343.08 0.0089 0.0072

Neptune 48478-05-25 14:24 G 19427431.06 19427431.10 19427431.19 0.0089 0.0084

Jupiter 48479-06-23 14:24 G 19427825.02 19427825.10 19427825.20 0.0519 0.0359

Jupiter 48479-09-20 18:29 G 19427914.17 19427914.27 19427914.39 0.0517 0.0246

Moon 48482-11-04 21:50 G 19429055.37 19429055.41 19429055.45 0.2656 0.2444

Earth 48482-11-04 22:05 G 19429055.39 19429055.42 19429055.46 0.2661 0.2457 *

Mars 48485-01-05 14:53 G 19429848.01 19429848.12 19429848.23 0.1882 0.0416

Earth 48485-05-14 21:36 G 19429977.28 19429977.40 19429977.52 0.2673 0.1798

Moon 48485-05-14 23:02 G 19429977.34 19429977.46 19429977.58 0.2668 0.1862 *

Jupiter 48485-11-09 11:02 G 19430155.79 19430155.96 19430156.13 0.0508 0.0201

Earth 48488-11-13 13:55 G 19431256.02 19431256.08 19431256.15 0.2657 0.2133

Moon 48488-11-13 14:24 G 19431256.04 19431256.10 19431256.16 0.2663 0.2215 *

Venus 48490-06-12 20:24 G 19431832.26 19431832.35 19431832.45 0.3682 0.3022

Jupiter 48491-04-11 19:26 G 19432135.28 19432135.31 19432135.34 0.0520 0.0503

Saturn 48491-07-09 05:46 G 19432223.66 19432223.74 19432223.84 0.0301 0.0216

Jupiter 48491-07-09 23:46 G 19432224.37 19432224.49 19432224.61 0.0518 0.0105

Saturn 48491-10-05 18:14 G 19432312.13 19432312.26 19432312.39 0.0300 0.0034

Saturn 48492-01-02 06:29 G 19432400.65 19432400.77 19432400.88 0.0300 0.0146

Venus 48493-03-18 19:41 G 19432842.25 19432842.32 19432842.39 0.3689 0.2612

Mars 48494-05-28 23:46 G 19433278.39 19433278.49 19433278.59 0.1876 0.0923

Moon 48495-11-07 14:38 G 19433806.02 19433806.11 19433806.20 0.2660 0.1387

Earth 48495-11-07 15:22 G 19433806.05 19433806.14 19433806.24 0.2660 0.1235 *

Jupiter 48497-08-28 05:46 G 19434465.55 19434465.74 19434465.92 0.0508 0.0041

Venus 48498-10-02 10:48 G 19434865.85 19434865.95 19434866.05 0.3689 0.0450

Jupiter 48503-04-29 04:48 G 19436534.58 19436534.70 19436534.83 0.0518 0.0037

Venus 48504-04-18 01:41 G 19436889.49 19436889.57 19436889.66 0.3688 0.1787

Mars 48506-07-25 21:36 G 19437718.24 19437718.40 19437718.56 0.1649 0.0402

Saturn 48507-01-19 18:29 G 19437896.10 19437896.27 19437896.44 0.0261 0.0122

Saturn 48507-04-18 15:50 G 19437984.97 19437985.16 19437985.35 0.0261 0.0059

Saturn 48507-07-16 13:12 G 19438073.98 19438074.05 19438074.13 0.0262 0.0241

Moon 48508-11-10 08:10 G 19438556.73 19438556.84 19438556.95 0.2664 0.0078

Earth 48508-11-10 08:38 G 19438556.75 19438556.86 19438556.97 0.2659 0.0052 *

Jupiter 48509-06-17 02:24 G 19438775.43 19438775.60 19438775.76 0.0508 0.0251

Uranus 48509-08-02 14:38 G 19438822.07 19438822.11 19438822.16 0.0140 0.0131

Uranus 48509-10-29 18:00 G 19438910.17 19438910.25 19438910.33 0.0140 0.0110

Uranus 48510-01-25 21:07 G 19438998.29 19438998.38 19438998.49 0.0141 0.0090

Uranus 48510-04-24 00:29 G 19439086.41 19439086.52 19439086.64 0.0141 0.0069

Uranus 48510-07-21 03:50 G 19439174.54 19439174.66 19439174.78 0.0141 0.0048

Uranus 48510-10-17 06:58 G 19439262.67 19439262.79 19439262.92 0.0141 0.0028

Uranus 48511-01-13 10:19 G 19439350.80 19439350.93 19439351.06 0.0141 0.0006

Uranus 48511-04-11 13:41 G 19439438.94 19439439.07 19439439.20 0.0141 0.0015

Uranus 48511-07-08 17:02 G 19439527.08 19439527.21 19439527.33 0.0141 0.0036

Uranus 48511-10-04 20:10 G 19439615.23 19439615.34 19439615.46 0.0141 0.0057

Uranus 48511-12-31 23:31 G 19439703.37 19439703.48 19439703.59 0.0141 0.0079

Uranus 48512-03-29 02:53 G 19439791.53 19439791.62 19439791.71 0.0141 0.0100

Uranus 48512-06-25 06:00 G 19439879.69 19439879.75 19439879.82 0.0141 0.0121

Jupiter 48515-02-15 09:36 G 19440844.78 19440844.90 19440845.02 0.0518 0.0185

Jupiter 48515-05-15 13:26 G 19440933.99 19440934.06 19440934.13 0.0516 0.0413

Mars 48515-12-15 21:50 G 19441148.30 19441148.41 19441148.53 0.1654 0.1170

Earth 48518-05-13 18:58 G 19442028.14 19442028.29 19442028.45 0.2672 0.0666

Moon 48518-05-13 20:53 G 19442028.20 19442028.37 19442028.53 0.2670 0.0444 *

Saturn 48520-11-26 06:14 G 19442955.73 19442955.76 19442955.78 0.0302 0.0295

Pluto 48520-12-30 07:12 G 19442989.72 19442989.80 19442989.90 0.0076 0.0066

Saturn 48521-02-22 18:29 G 19443044.15 19443044.27 19443044.39 0.0301 0.0112

Pluto 48521-03-28 09:22 G 19443077.76 19443077.89 19443078.06 0.0076 0.0046

Jupiter 48521-04-04 23:17 G 19443085.39 19443085.47 19443085.55 0.0507 0.0457

Saturn 48521-05-22 06:43 G 19443132.65 19443132.78 19443132.90 0.0301 0.0069

Pluto 48521-06-24 12:00 G 19443165.83 19443166.00 19443166.19 0.0076 0.0025

Jupiter 48521-07-04 13:41 G 19443175.98 19443176.07 19443176.17 0.0509 0.0436

Saturn 48521-08-18 18:43 G 19443221.22 19443221.28 19443221.36 0.0300 0.0248

Pluto 48521-09-20 14:38 G 19443253.92 19443254.11 19443254.30 0.0076 0.0004

Moon 48521-11-13 01:41 G 19443307.47 19443307.57 19443307.66 0.2665 0.1162

Earth 48521-11-13 01:41 G 19443307.47 19443307.57 19443307.67 0.2658 0.1171 *

Pluto 48521-12-17 16:48 G 19443342.02 19443342.20 19443342.40 0.0075 0.0017

Pluto 48522-03-15 19:12 G 19443430.14 19443430.30 19443430.48 0.0075 0.0037

Pluto 48522-06-11 21:22 G 19443518.29 19443518.39 19443518.53 0.0075 0.0057

Mars 48524-07-07 14:38 G 19444275.00 19444275.11 19444275.22 0.1881 0.0561

Jupiter 48526-12-04 14:10 G 19445154.99 19445155.09 19445155.18 0.0519 0.0336

Jupiter 48527-03-03 18:14 G 19445244.15 19445244.26 19445244.36 0.0517 0.0266

Moon 48528-11-06 02:24 G 19445857.55 19445857.60 19445857.65 0.2657 0.2333

Earth 48528-11-06 02:53 G 19445857.56 19445857.62 19445857.68 0.2661 0.2219 *

Earth 48531-05-17 04:34 G 19446779.62 19446779.69 19446779.77 0.2673 0.2336

Moon 48531-05-17 05:46 G 19446779.70 19446779.74 19446779.79 0.2668 0.2536 *

Jupiter 48533-04-22 10:05 G 19447485.76 19447485.92 19447486.09 0.0509 0.0220

Mars 48533-11-27 23:46 G 19447705.38 19447705.49 19447705.59 0.1876 0.0765

Earth 48534-11-15 18:43 G 19448058.24 19448058.28 19448058.33 0.2657 0.2360

Moon 48534-11-15 19:12 G 19448058.26 19448058.30 19448058.34 0.2662 0.2416 *

Saturn 48536-06-07 16:05 G 19448628.04 19448628.17 19448628.31 0.0261 0.0185

Saturn 48536-09-04 13:26 G 19448716.87 19448717.06 19448717.25 0.0261 0.0005

Saturn 48536-12-02 10:34 G 19448805.81 19448805.94 19448806.09 0.0262 0.0177

Jupiter 48538-09-22 18:29 G 19449465.24 19449465.27 19449465.31 0.0520 0.0492

Jupiter 48538-12-20 22:48 G 19449554.33 19449554.45 19449554.57 0.0518 0.0115

Moon 48541-11-08 19:26 G 19450608.21 19450608.31 19450608.41 0.2660 0.1032

Earth 48541-11-08 20:10 G 19450608.24 19450608.34 19450608.44 0.2660 0.1001 *

Jupiter 48545-02-08 06:14 G 19451795.57 19451795.76 19451795.95 0.0508 0.0004

Mars 48546-01-23 22:19 G 19452145.28 19452145.43 19452145.59 0.1649 0.0636

Venus 48547-01-18 23:31 G 19452505.31 19452505.48 19452505.64 0.3682 0.0130

Venus 48549-10-24 17:02 G 19453515.12 19453515.21 19453515.29 0.3689 0.1819

Uranus 48550-03-02 20:53 G 19453644.28 19453644.37 19453644.49 0.0138 0.0117

Uranus 48550-05-30 05:02 G 19453732.57 19453732.71 19453732.87 0.0138 0.0087

Saturn 48550-07-12 19:55 G 19453776.23 19453776.33 19453776.44 0.0301 0.0173

Uranus 48550-08-26 13:12 G 19453820.87 19453821.05 19453821.23 0.0138 0.0057

Jupiter 48550-10-09 03:50 G 19453864.53 19453864.66 19453864.78 0.0518 0.0027

Saturn 48550-10-09 08:10 G 19453864.71 19453864.84 19453864.97 0.0300 0.0009 *

Uranus 48550-11-22 21:07 G 19453909.19 19453909.38 19453909.57 0.0137 0.0027

Saturn 48551-01-05 20:24 G 19453953.25 19453953.35 19453953.45 0.0300 0.0188

Uranus 48551-02-19 05:02 G 19453997.51 19453997.71 19453997.91 0.0137 0.0003

Uranus 48551-05-18 12:58 G 19454085.85 19454086.04 19454086.23 0.0137 0.0032

Uranus 48551-08-14 20:53 G 19454174.19 19454174.37 19454174.55 0.0137 0.0061

Uranus 48551-11-11 04:34 G 19454262.55 19454262.69 19454262.85 0.0137 0.0091

Uranus 48552-02-07 12:29 G 19454350.94 19454351.02 19454351.12 0.0137 0.0120

Moon 48554-11-11 12:58 G 19455358.93 19455359.04 19455359.15 0.2665 0.0108

Earth 48554-11-11 13:26 G 19455358.95 19455359.06 19455359.16 0.2659 0.0227 *

Neptune 48555-05-07 09:07 G 19455535.84 19455535.88 19455535.94 0.0089 0.0081

Venus 48555-05-10 07:55 G 19455538.73 19455538.83 19455538.93 0.3689 0.0390

Mars 48555-06-15 22:34 G 19455575.30 19455575.44 19455575.58 0.1654 0.0937

Neptune 48555-08-03 10:19 G 19455623.87 19455623.93 19455624.01 0.0089 0.0074

Neptune 48555-10-30 11:31 G 19455711.91 19455711.98 19455712.08 0.0089 0.0066

Neptune 48556-01-26 12:58 G 19455799.95 19455800.04 19455800.14 0.0089 0.0058

Neptune 48556-04-23 14:10 G 19455887.99 19455888.09 19455888.20 0.0089 0.0051

Neptune 48556-07-20 15:22 G 19455976.04 19455976.14 19455976.26 0.0089 0.0043

Neptune 48556-10-16 16:48 G 19456064.08 19456064.20 19456064.32 0.0089 0.0035

Jupiter 48556-11-27 00:58 G 19456105.37 19456105.54 19456105.70 0.0507 0.0241

Neptune 48557-01-12 18:00 G 19456152.13 19456152.25 19456152.38 0.0089 0.0028

Neptune 48557-04-10 19:12 G 19456240.18 19456240.30 19456240.44 0.0089 0.0020

Neptune 48557-07-07 20:38 G 19456328.23 19456328.36 19456328.49 0.0089 0.0012

Neptune 48557-10-03 21:50 G 19456416.28 19456416.41 19456416.54 0.0089 0.0005

Neptune 48557-12-30 23:02 G 19456504.33 19456504.46 19456504.60 0.0089 0.0004

Neptune 48558-03-29 00:29 G 19456592.39 19456592.52 19456592.65 0.0089 0.0011

Neptune 48558-06-25 01:41 G 19456680.44 19456680.57 19456680.70 0.0089 0.0019

Neptune 48558-09-21 02:53 G 19456768.50 19456768.62 19456768.75 0.0089 0.0026

Neptune 48558-12-18 04:05 G 19456856.55 19456856.67 19456856.80 0.0089 0.0034

Neptune 48559-03-16 05:17 G 19456944.61 19456944.72 19456944.84 0.0089 0.0042

Neptune 48559-06-12 06:43 G 19457032.67 19457032.78 19457032.89 0.0089 0.0049

Neptune 48559-09-08 07:55 G 19457120.73 19457120.83 19457120.93 0.0089 0.0057

Neptune 48559-12-05 08:53 G 19457208.80 19457208.87 19457208.97 0.0089 0.0065

Neptune 48560-03-02 10:19 G 19457296.86 19457296.93 19457297.01 0.0089 0.0072

Neptune 48560-05-29 11:31 G 19457384.93 19457384.98 19457385.04 0.0089 0.0080

Neptune 48560-08-25 12:43 G 19457473.02 19457473.03 19457473.06 0.0089 0.0088

Venus 48560-11-22 23:02 G 19457562.39 19457562.46 19457562.53 0.3688 0.2600

Jupiter 48562-07-28 08:53 G 19458174.75 19458174.87 19458174.99 0.0519 0.0168

Jupiter 48562-10-25 12:43 G 19458263.97 19458264.03 19458264.10 0.0516 0.0432

Mars 48564-01-06 14:38 G 19458702.01 19458702.11 19458702.22 0.1882 0.0730

Earth 48564-05-14 01:55 G 19458830.42 19458830.58 19458830.75 0.2672 0.0141

Moon 48564-05-14 03:36 G 19458830.49 19458830.65 19458830.82 0.2669 0.0047 *

Saturn 48565-10-25 14:38 G 19459360.05 19459360.11 19459360.19 0.0261 0.0239

Saturn 48566-01-22 12:00 G 19459448.82 19459449.00 19459449.19 0.0261 0.0060

Saturn 48566-04-21 09:22 G 19459537.72 19459537.89 19459538.06 0.0261 0.0121

Moon 48567-11-14 06:29 G 19460109.68 19460109.77 19460109.86 0.2665 0.1433

Earth 48567-11-14 06:29 G 19460109.68 19460109.77 19460109.86 0.2658 0.1406 *

Jupiter 48568-09-14 21:36 G 19460415.32 19460415.40 19460415.48 0.0507 0.0452

Jupiter 48568-12-14 11:46 G 19460505.90 19460505.99 19460506.09 0.0509 0.0440

Mars 48573-05-28 23:31 G 19462132.38 19462132.48 19462132.59 0.1876 0.0603

Jupiter 48574-05-16 13:26 G 19462484.97 19462485.06 19462485.16 0.0519 0.0319

Jupiter 48574-08-13 17:31 G 19462574.13 19462574.23 19462574.34 0.0517 0.0284

Moon 48574-11-07 06:58 G 19462659.73 19462659.79 19462659.86 0.2658 0.2022

Earth 48574-11-07 07:41 G 19462659.75 19462659.82 19462659.89 0.2661 0.1983 *

Saturn 48579-11-29 20:24 G 19464508.28 19464508.35 19464508.42 0.0301 0.0248

Saturn 48580-02-26 08:38 G 19464596.74 19464596.86 19464596.99 0.0301 0.0066

Saturn 48580-05-24 20:53 G 19464685.25 19464685.37 19464685.49 0.0300 0.0115

Saturn 48580-08-21 09:07 G 19464773.86 19464773.88 19464773.90 0.0300 0.0293

Jupiter 48580-10-02 08:38 G 19464815.70 19464815.86 19464816.03 0.0509 0.0229

Earth 48580-11-15 23:31 G 19464860.46 19464860.48 19464860.50 0.2657 0.2589

Mars 48585-07-24 23:02 G 19466572.31 19466572.46 19466572.60 0.1650 0.0865

Jupiter 48586-03-04 18:00 G 19466795.20 19466795.25 19466795.31 0.0520 0.0472

Jupiter 48586-06-01 22:19 G 19466884.31 19466884.43 19466884.55 0.0517 0.0135

Moon 48587-11-10 00:14 G 19467410.41 19467410.51 19467410.61 0.2661 0.0908

Earth 48587-11-10 00:58 G 19467410.44 19467410.54 19467410.64 0.2660 0.0764 *

Jupiter 48592-07-21 05:17 G 19469125.53 19469125.72 19469125.91 0.0508 0.0014

Uranus 48593-08-22 21:22 G 19469523.35 19469523.39 19469523.45 0.0140 0.0129

Uranus 48593-11-19 00:43 G 19469611.46 19469611.53 19469611.62 0.0140 0.0108

Uranus 48594-02-15 04:05 G 19469699.57 19469699.67 19469699.78 0.0141 0.0087

Uranus 48594-05-14 07:26 G 19469787.70 19469787.81 19469787.93 0.0141 0.0066

Uranus 48594-08-10 10:48 G 19469875.82 19469875.95 19469876.07 0.0141 0.0045

Uranus 48594-11-06 13:55 G 19469963.96 19469964.08 19469964.21 0.0141 0.0024

Mars 48594-12-14 23:31 G 19470002.33 19470002.48 19470002.63 0.1654 0.0689

Uranus 48595-02-02 17:17 G 19470052.09 19470052.22 19470052.35 0.0141 0.0003

Uranus 48595-05-01 20:38 G 19470140.23 19470140.36 19470140.49 0.0141 0.0018

Saturn 48595-06-11 09:50 G 19470180.74 19470180.91 19470181.08 0.0261 0.0121

Uranus 48595-07-28 23:46 G 19470228.37 19470228.49 19470228.62 0.0141 0.0040

Saturn 48595-09-08 07:12 G 19470269.61 19470269.80 19470269.99 0.0262 0.0059

Uranus 48595-10-25 03:07 G 19470316.51 19470316.63 19470316.75 0.0141 0.0061

Saturn 48595-12-06 04:19 G 19470358.62 19470358.68 19470358.77 0.0262 0.0242

Uranus 48596-01-21 06:14 G 19470404.66 19470404.76 19470404.88 0.0141 0.0083

Uranus 48596-04-18 09:36 G 19470492.82 19470492.90 19470493.00 0.0141 0.0103

Uranus 48596-07-15 12:58 G 19470580.99 19470581.04 19470581.11 0.0141 0.0125

Earth 48597-05-11 23:46 G 19470881.44 19470881.49 19470881.53 0.2671 0.2541

Moon 48597-05-12 01:26 G 19470881.50 19470881.56 19470881.62 0.2672 0.2444 *

Jupiter 48598-03-21 02:53 G 19471194.49 19471194.62 19471194.74 0.0518 0.0025

Moon 48600-11-12 17:46 G 19472161.13 19472161.24 19472161.34 0.2665 0.0455

Earth 48600-11-12 18:00 G 19472161.15 19472161.25 19472161.36 0.2659 0.0446 *

Venus 48600-11-15 23:17 G 19472164.42 19472164.47 19472164.52 0.3689 0.3202

Mars 48603-07-08 14:38 G 19473129.01 19473129.11 19473129.21 0.1882 0.0893

Venus 48603-08-27 02:24 G 19473178.49 19473178.60 19473178.70 0.3682 0.2769

Jupiter 48604-05-10 01:12 G 19473435.38 19473435.55 19473435.73 0.0507 0.0207

Venus 48606-06-01 14:10 G 19474188.00 19474188.09 19474188.19 0.3689 0.1015

Saturn 48609-07-16 10:34 G 19475328.82 19475328.94 19475329.05 0.0301 0.0124

Saturn 48609-10-12 22:48 G 19475417.32 19475417.45 19475417.57 0.0300 0.0058

Jupiter 48610-01-08 07:41 G 19475504.70 19475504.82 19475504.94 0.0519 0.0163

Saturn 48610-01-09 10:48 G 19475505.87 19475505.95 19475506.03 0.0299 0.0236

Jupiter 48610-04-07 11:46 G 19475593.92 19475593.99 19475594.05 0.0516 0.0438

Earth 48610-05-16 09:07 G 19475632.71 19475632.88 19475633.04 0.2673 0.0414

Moon 48610-05-16 10:34 G 19475632.78 19475632.94 19475633.10 0.2669 0.0686 *

Venus 48611-12-16 05:17 G 19476211.63 19476211.72 19476211.81 0.3688 0.1199

Mars 48612-11-27 23:31 G 19476559.37 19476559.48 19476559.59 0.1876 0.0442

Earth 48613-11-15 11:17 G 19476911.88 19476911.97 19476912.05 0.2658 0.1641

Moon 48613-11-15 11:17 G 19476911.89 19476911.97 19476912.06 0.2664 0.1628 *

Jupiter 48616-02-26 19:55 G 19477745.25 19477745.33 19477745.42 0.0507 0.0445

Jupiter 48616-05-27 10:19 G 19477835.84 19477835.93 19477836.02 0.0509 0.0446

Venus 48617-06-30 20:24 G 19478235.31 19478235.35 19478235.38 0.3688 0.3417

Moon 48620-11-08 11:46 G 19479461.92 19479461.99 19479462.07 0.2658 0.1860

Earth 48620-11-08 12:29 G 19479461.94 19479462.02 19479462.10 0.2661 0.1745 *

Jupiter 48621-10-27 12:43 G 19479814.93 19479815.03 19479815.13 0.0519 0.0306

Jupiter 48622-01-24 16:48 G 19479904.10 19479904.20 19479904.30 0.0517 0.0298

Mars 48622-04-20 08:24 G 19479989.82 19479989.85 19479989.89 0.1870 0.1758

Saturn 48624-10-29 08:53 G 19480912.73 19480912.87 19480913.02 0.0261 0.0172

Mars 48625-01-23 23:46 G 19480999.36 19480999.49 19480999.61 0.1649 0.1099

Saturn 48625-01-26 06:14 G 19481001.57 19481001.76 19481001.96 0.0261 0.0009

Saturn 48625-04-25 03:36 G 19481090.52 19481090.65 19481090.79 0.0262 0.0190

Jupiter 48628-03-15 06:43 G 19482145.61 19482145.78 19482145.94 0.0509 0.0229

Jupiter 48633-08-15 17:17 G 19484125.17 19484125.22 19484125.28 0.0520 0.0458

Moon 48633-11-11 05:02 G 19484212.61 19484212.71 19484212.82 0.2663 0.0564

Earth 48633-11-11 05:46 G 19484212.63 19484212.74 19484212.84 0.2660 0.0540 *

Jupiter 48633-11-12 21:36 G 19484214.28 19484214.40 19484214.52 0.0517 0.0149

Uranus 48634-03-24 04:05 G 19484345.56 19484345.67 19484345.80 0.0138 0.0110

Mars 48634-06-16 00:00 G 19484429.34 19484429.50 19484429.66 0.1654 0.0477

Uranus 48634-06-20 12:14 G 19484433.85 19484434.01 19484434.17 0.0138 0.0080

Uranus 48634-09-16 19:55 G 19484522.16 19484522.33 19484522.53 0.0138 0.0051

Uranus 48634-12-14 04:05 G 19484610.48 19484610.67 19484610.87 0.0137 0.0021

Uranus 48635-03-12 12:14 G 19484698.81 19484699.01 19484699.20 0.0137 0.0010

Uranus 48635-06-08 19:55 G 19484787.15 19484787.33 19484787.52 0.0137 0.0039

Uranus 48635-09-05 03:50 G 19484875.49 19484875.66 19484875.84 0.0137 0.0068

Uranus 48635-12-02 11:31 G 19484963.86 19484963.98 19484964.13 0.0137 0.0098

Uranus 48636-02-28 19:26 G 19485052.25 19485052.31 19485052.39 0.0137 0.0127

Saturn 48638-12-03 11:17 G 19486060.87 19486060.97 19486061.07 0.0301 0.0194

Saturn 48639-03-01 23:31 G 19486149.35 19486149.48 19486149.61 0.0301 0.0013

Saturn 48639-05-29 11:46 G 19486237.88 19486237.99 19486238.09 0.0300 0.0167

Neptune 48639-07-10 04:19 G 19486279.65 19486279.68 19486279.75 0.0088 0.0086

Neptune 48639-10-06 08:24 G 19486367.75 19486367.85 19486367.97 0.0089 0.0074

Jupiter 48640-01-02 03:22 G 19486455.45 19486455.64 19486455.83 0.0508 0.0018

Neptune 48640-01-02 12:00 G 19486455.88 19486456.00 19486456.15 0.0089 0.0063

Neptune 48640-03-30 15:50 G 19486544.01 19486544.16 19486544.33 0.0089 0.0051

Neptune 48640-06-26 19:26 G 19486632.15 19486632.31 19486632.51 0.0089 0.0040

Neptune 48640-09-22 23:31 G 19486720.30 19486720.48 19486720.67 0.0089 0.0028

Neptune 48640-12-20 03:07 G 19486808.45 19486808.63 19486808.84 0.0089 0.0017

Neptune 48641-03-18 07:12 G 19486896.60 19486896.80 19486897.00 0.0089 0.0005

Neptune 48641-06-14 10:48 G 19486984.76 19486984.95 19486985.15 0.0089 0.0007

Neptune 48641-09-10 14:38 G 19487072.92 19487073.11 19487073.31 0.0089 0.0018

Neptune 48641-12-07 18:29 G 19487161.08 19487161.27 19487161.45 0.0089 0.0030

Neptune 48642-03-05 21:50 G 19487249.25 19487249.41 19487249.60 0.0089 0.0042

Neptune 48642-06-02 01:26 G 19487337.42 19487337.56 19487337.74 0.0089 0.0054

Neptune 48642-08-29 05:31 G 19487425.61 19487425.73 19487425.87 0.0089 0.0065

Neptune 48642-11-25 08:53 G 19487513.80 19487513.87 19487514.00 0.0089 0.0077

Mars 48643-01-06 14:38 G 19487556.01 19487556.11 19487556.20 0.1881 0.1043

Neptune 48643-02-21 12:58 G 19487602.03 19487602.04 19487602.08 0.0089 0.0088

Earth 48643-05-14 06:43 G 19487683.67 19487683.78 19487683.88 0.2671 0.2017

Moon 48643-05-14 08:24 G 19487683.72 19487683.85 19487683.97 0.2670 0.1695 *

Jupiter 48645-09-01 02:10 G 19488524.46 19488524.59 19488524.71 0.0518 0.0004

Moon 48646-11-13 22:34 G 19488963.33 19488963.44 19488963.54 0.2665 0.0581

Earth 48646-11-13 22:48 G 19488963.35 19488963.45 19488963.55 0.2659 0.0675 *

Jupiter 48651-10-21 00:00 G 19490765.32 19490765.50 19490765.67 0.0508 0.0197

Mars 48652-05-28 23:31 G 19490986.37 19490986.48 19490986.59 0.1876 0.0284

Saturn 48654-03-18 07:12 G 19491644.71 19491644.80 19491644.89 0.0261 0.0230

Saturn 48654-06-15 04:34 G 19491733.50 19491733.69 19491733.88 0.0261 0.0051

Saturn 48654-09-12 01:55 G 19491822.41 19491822.58 19491822.75 0.0262 0.0131

Venus 48654-09-16 17:02 G 19491827.13 19491827.21 19491827.28 0.3682 0.3220

Earth 48656-05-16 16:05 G 19492435.01 19492435.17 19492435.32 0.2673 0.0953

Moon 48656-05-16 17:31 G 19492435.08 19492435.23 19492435.38 0.2669 0.1038 *

Jupiter 48657-06-20 06:29 G 19492834.65 19492834.77 19492834.89 0.0519 0.0158

Venus 48657-06-22 20:24 G 19492837.28 19492837.35 19492837.43 0.3689 0.2402

Jupiter 48657-09-17 10:34 G 19492923.87 19492923.94 19492924.00 0.0516 0.0442

Earth 48659-11-16 15:50 G 19493714.09 19493714.16 19493714.24 0.2658 0.1866

Moon 48659-11-16 16:19 G 19493714.10 19493714.18 19493714.25 0.2664 0.1971 *

Mars 48661-10-19 08:38 G 19494416.80 19494416.86 19494416.91 0.1870 0.1590

Venus 48663-01-06 11:31 G 19494860.88 19494860.98 19494861.08 0.3689 0.0200

Jupiter 48663-08-08 19:55 G 19495075.23 19495075.33 19495075.44 0.0507 0.0416

Jupiter 48663-11-07 10:05 G 19495165.87 19495165.92 19495165.99 0.0509 0.0476

Mars 48664-07-25 00:29 G 19495426.42 19495426.52 19495426.62 0.1649 0.1331

Moon 48666-11-09 16:34 G 19496264.10 19496264.19 19496264.28 0.2658 0.1571

Earth 48666-11-09 17:17 G 19496264.13 19496264.22 19496264.31 0.2661 0.1508 *

Saturn 48668-04-21 13:26 G 19496792.98 19496793.06 19496793.13 0.0301 0.0247

Saturn 48668-07-19 01:41 G 19496881.44 19496881.57 19496881.69 0.0300 0.0066

Venus 48668-07-22 02:38 G 19496884.52 19496884.61 19496884.69 0.3688 0.2018

Saturn 48668-10-15 13:41 G 19496969.96 19496970.07 19496970.19 0.0300 0.0115

Saturn 48669-01-12 01:41 G 19497058.56 19497058.57 19497058.60 0.0299 0.0294

Jupiter 48669-04-08 11:17 G 19497144.87 19497144.97 19497145.08 0.0519 0.0305

Jupiter 48669-07-06 15:36 G 19497234.04 19497234.15 19497234.25 0.0517 0.0301

Mars 48673-12-15 00:43 G 19498856.36 19498856.53 19498856.70 0.1654 0.0240

Jupiter 48675-08-26 04:34 G 19499475.53 19499475.69 19499475.87 0.0508 0.0232

Uranus 48677-09-13 04:34 G 19500224.63 19500224.69 19500224.75 0.0140 0.0125

Uranus 48677-12-10 07:41 G 19500312.74 19500312.82 19500312.91 0.0140 0.0104

Uranus 48678-03-08 11:02 G 19500400.86 19500400.96 19500401.07 0.0140 0.0083

Uranus 48678-06-04 14:10 G 19500488.98 19500489.09 19500489.21 0.0141 0.0063

Uranus 48678-08-31 17:31 G 19500577.11 19500577.23 19500577.36 0.0141 0.0042

Uranus 48678-11-27 20:53 G 19500665.24 19500665.37 19500665.50 0.0141 0.0021

Uranus 48679-02-24 00:14 G 19500753.38 19500753.51 19500753.64 0.0141 0.0002

Uranus 48679-05-23 03:36 G 19500841.52 19500841.65 19500841.77 0.0141 0.0022

Uranus 48679-08-19 06:43 G 19500929.66 19500929.78 19500929.91 0.0141 0.0043

Moon 48679-11-12 09:50 G 19501014.80 19501014.91 19501015.02 0.2664 0.0407

Earth 48679-11-12 10:19 G 19501014.83 19501014.93 19501015.04 0.2660 0.0304 *

Uranus 48679-11-15 10:05 G 19501017.80 19501017.92 19501018.04 0.0141 0.0064

Uranus 48680-02-11 13:12 G 19501105.96 19501106.05 19501106.16 0.0141 0.0086

Uranus 48680-05-09 16:34 G 19501194.11 19501194.19 19501194.28 0.0141 0.0107

Uranus 48680-08-05 19:55 G 19501282.28 19501282.33 19501282.39 0.0141 0.0128

Jupiter 48681-01-25 16:19 G 19501455.12 19501455.18 19501455.24 0.0520 0.0450

Jupiter 48681-04-24 20:24 G 19501544.23 19501544.35 19501544.47 0.0518 0.0159

Pluto 48682-01-09 02:24 G 19501803.56 19501803.60 19501803.68 0.0068 0.0061

Pluto 48682-04-07 03:07 G 19501891.55 19501891.63 19501891.73 0.0068 0.0050

Pluto 48682-07-04 03:50 G 19501979.55 19501979.66 19501979.77 0.0068 0.0039

Mars 48682-07-07 14:38 G 19501983.02 19501983.11 19501983.19 0.1882 0.1203

Pluto 48682-09-30 04:19 G 19502067.56 19502067.68 19502067.81 0.0068 0.0029

Pluto 48682-12-27 04:48 G 19502155.58 19502155.70 19502155.84 0.0068 0.0019

Pluto 48683-03-25 05:31 G 19502243.60 19502243.73 19502243.87 0.0068 0.0008

Pluto 48683-06-21 06:00 G 19502331.62 19502331.75 19502331.89 0.0068 0.0004

Pluto 48683-09-17 06:29 G 19502419.65 19502419.77 19502419.91 0.0068 0.0015

Saturn 48683-11-02 04:05 G 19502465.50 19502465.67 19502465.85 0.0261 0.0097

Pluto 48683-12-14 07:12 G 19502507.68 19502507.80 19502507.93 0.0069 0.0025

Saturn 48684-01-30 01:26 G 19502554.38 19502554.56 19502554.75 0.0262 0.0084

Pluto 48684-03-11 07:41 G 19502595.71 19502595.82 19502595.94 0.0069 0.0036

Pluto 48684-06-07 08:10 G 19502683.75 19502683.84 19502683.95 0.0069 0.0047

Pluto 48684-09-03 08:38 G 19502771.80 19502771.86 19502771.95 0.0069 0.0058

Pluto 48684-11-30 09:22 G 19502859.89 19502859.89 19502859.91 0.0069 0.0069

Jupiter 48687-06-14 00:58 G 19503785.35 19503785.54 19503785.73 0.0508 0.0013

Earth 48689-05-14 13:41 G 19504485.93 19504486.07 19504486.20 0.2671 0.1478

Moon 48689-05-14 15:36 G 19504486.00 19504486.15 19504486.29 0.2669 0.1363 *

Mars 48691-11-27 23:31 G 19505413.37 19505413.48 19505413.59 0.1876 0.0115

Moon 48692-11-14 03:22 G 19505765.54 19505765.64 19505765.74 0.2665 0.0935

Earth 48692-11-14 03:36 G 19505765.55 19505765.65 19505765.75 0.2659 0.0907 *

Jupiter 48693-02-11 01:12 G 19505854.42 19505854.55 19505854.67 0.0518 0.0018

Saturn 48697-12-06 02:53 G 19507613.51 19507613.62 19507613.74 0.0301 0.0128

Saturn 48698-03-04 15:07 G 19507702.01 19507702.13 19507702.26 0.0300 0.0053

Saturn 48698-06-01 03:22 G 19507790.56 19507790.64 19507790.72 0.0300 0.0232

Jupiter 48699-04-01 21:36 G 19508095.23 19508095.40 19508095.58 0.0508 0.0200

Moon 48699-11-08 04:19 G 19508315.66 19508315.68 19508315.70 0.2657 0.2590

Earth 48699-11-08 04:48 G 19508315.66 19508315.70 19508315.73 0.2662 0.2494 *

Mars 48701-04-20 08:24 G 19508843.78 19508843.85 19508843.92 0.1870 0.1449

Earth 48702-05-18 23:02 G 19509237.32 19509237.46 19509237.59 0.2673 0.1491

Moon 48702-05-19 00:14 G 19509237.38 19509237.51 19509237.63 0.2668 0.1731 *

Mars 48704-01-25 00:58 G 19509853.49 19509853.54 19509853.60 0.1649 0.1560

Jupiter 48704-12-01 05:46 G 19510164.62 19510164.74 19510164.86 0.0519 0.0146

Jupiter 48705-02-28 09:36 G 19510253.84 19510253.90 19510253.96 0.0516 0.0453

Earth 48705-11-17 20:38 G 19510516.30 19510516.36 19510516.42 0.2658 0.2095

Moon 48705-11-17 20:53 G 19510516.31 19510516.37 19510516.44 0.2664 0.2092 *

Jupiter 48711-01-19 18:14 G 19512405.15 19512405.26 19512405.36 0.0507 0.0413

Jupiter 48711-04-20 08:24 G 19512495.79 19512495.85 19512495.91 0.0509 0.0479

Venus 48711-04-24 19:55 G 19512500.16 19512500.33 19512500.49 0.3682 0.0352

Moon 48712-11-10 21:22 G 19513066.30 19513066.39 19513066.48 0.2660 0.1351

Earth 48712-11-10 22:05 G 19513066.32 19513066.42 19513066.51 0.2661 0.1277 *

Saturn 48713-03-22 02:38 G 19513197.46 19513197.61 19513197.77 0.0261 0.0152

Mars 48713-06-16 01:26 G 19513283.39 19513283.56 19513283.73 0.1654 0.0032

Saturn 48713-06-19 00:00 G 19513286.31 19513286.50 19513286.70 0.0262 0.0030

Saturn 48713-09-15 21:36 G 19513375.29 19513375.40 19513375.51 0.0262 0.0211

Venus 48714-01-28 17:46 G 19513510.15 19513510.24 19513510.33 0.3689 0.1595

Jupiter 48716-09-19 09:50 G 19514474.81 19514474.91 19514475.02 0.0519 0.0305

Jupiter 48716-12-17 14:10 G 19514563.98 19514564.09 19514564.19 0.0517 0.0300

Uranus 48718-01-16 02:38 G 19514958.58 19514958.61 19514958.67 0.0138 0.0134

Uranus 48718-04-14 10:48 G 19515046.83 19515046.95 19515047.09 0.0138 0.0104

Uranus 48718-07-11 18:58 G 19515135.12 19515135.29 19515135.46 0.0138 0.0074

Uranus 48718-10-08 02:38 G 19515223.44 19515223.61 19515223.81 0.0138 0.0045

Uranus 48719-01-04 10:48 G 19515311.76 19515311.95 19515312.15 0.0137 0.0015

Uranus 48719-04-02 18:43 G 19515400.09 19515400.28 19515400.48 0.0137 0.0016

Uranus 48719-06-30 02:38 G 19515488.43 19515488.61 19515488.80 0.0137 0.0045

Venus 48719-08-14 08:53 G 19515533.77 19515533.87 19515533.96 0.3689 0.0624

Uranus 48719-09-26 10:34 G 19515576.78 19515576.94 19515577.11 0.0137 0.0074

Neptune 48719-11-07 07:26 G 19515618.79 19515618.81 19515618.85 0.0089 0.0086

Uranus 48719-12-23 18:14 G 19515665.15 19515665.26 19515665.40 0.0137 0.0104

Neptune 48720-02-03 08:53 G 19515706.82 19515706.87 19515706.93 0.0089 0.0078

Uranus 48720-03-21 02:10 G 19515753.56 19515753.59 19515753.65 0.0137 0.0133

Neptune 48720-05-01 10:05 G 19515794.85 19515794.92 19515795.01 0.0089 0.0071

Neptune 48720-07-28 11:17 G 19515882.89 19515882.97 19515883.07 0.0089 0.0063

Neptune 48720-10-24 12:43 G 19515970.93 19515971.03 19515971.14 0.0089 0.0055

Neptune 48721-01-20 13:55 G 19516058.98 19516059.08 19516059.20 0.0089 0.0048

Neptune 48721-04-18 15:07 G 19516147.02 19516147.13 19516147.26 0.0089 0.0040

Neptune 48721-07-15 16:34 G 19516235.07 19516235.19 19516235.31 0.0089 0.0032

Neptune 48721-10-11 17:46 G 19516323.12 19516323.24 19516323.37 0.0089 0.0025

Mars 48722-01-06 14:38 G 19516410.03 19516410.11 19516410.18 0.1882 0.1378

Neptune 48722-01-07 18:58 G 19516411.17 19516411.29 19516411.42 0.0089 0.0017

Neptune 48722-04-05 20:24 G 19516499.22 19516499.35 19516499.48 0.0089 0.0009

Neptune 48722-07-02 21:36 G 19516587.27 19516587.40 19516587.53 0.0089 0.0002

Neptune 48722-09-28 22:48 G 19516675.32 19516675.45 19516675.59 0.0089 0.0007

Mars 48722-11-06 01:41 G 19516713.53 19516713.57 19516713.62 0.1659 0.1586

Neptune 48722-12-26 00:14 G 19516763.38 19516763.51 19516763.64 0.0089 0.0014

Jupiter 48723-02-06 04:19 G 19516805.52 19516805.68 19516805.84 0.0508 0.0254

Neptune 48723-03-24 01:26 G 19516851.43 19516851.56 19516851.69 0.0089 0.0022

Neptune 48723-06-20 02:24 G 19516939.49 19516939.60 19516939.74 0.0089 0.0030

Neptune 48723-09-16 03:50 G 19517027.55 19517027.66 19517027.78 0.0089 0.0037

Neptune 48723-12-13 05:02 G 19517115.60 19517115.71 19517115.83 0.0089 0.0045

Neptune 48724-03-10 06:29 G 19517203.66 19517203.77 19517203.87 0.0089 0.0052

Neptune 48724-06-06 07:26 G 19517291.73 19517291.81 19517291.92 0.0089 0.0060

Neptune 48724-09-02 08:38 G 19517379.79 19517379.86 19517379.96 0.0089 0.0068

Neptune 48724-11-29 10:05 G 19517467.86 19517467.92 19517467.99 0.0089 0.0075

Neptune 48725-02-25 11:17 G 19517555.93 19517555.97 19517556.02 0.0089 0.0083

Venus 48725-02-26 23:46 G 19517557.43 19517557.49 19517557.56 0.3688 0.2827

Moon 48725-11-13 14:38 G 19517817.00 19517817.11 19517817.22 0.2664 0.0114

Earth 48725-11-13 15:07 G 19517817.02 19517817.13 19517817.24 0.2660 0.0067 *

Saturn 48727-04-26 05:17 G 19518345.62 19518345.72 19518345.82 0.0301 0.0178

Saturn 48727-07-23 17:31 G 19518434.10 19518434.23 19518434.36 0.0300 0.0005

Saturn 48727-10-20 05:31 G 19518522.63 19518522.73 19518522.84 0.0300 0.0183

Jupiter 48728-07-08 14:38 G 19518785.05 19518785.11 19518785.17 0.0520 0.0453

Jupiter 48728-10-05 18:58 G 19518874.17 19518874.29 19518874.41 0.0518 0.0155

Mars 48731-05-29 23:31 G 19519840.36 19519840.48 19519840.59 0.1876 0.0062

Jupiter 48734-11-24 22:48 G 19521115.26 19521115.45 19521115.64 0.0508 0.0011

Earth 48735-05-16 20:24 G 19521288.20 19521288.35 19521288.51 0.2672 0.0956

Moon 48735-05-16 22:19 G 19521288.27 19521288.43 19521288.59 0.2670 0.0647 *

Moon 48738-11-16 08:10 G 19522567.75 19522567.84 19522567.94 0.2665 0.1108

Earth 48738-11-16 08:10 G 19522567.75 19522567.84 19522567.94 0.2659 0.1140 *

Jupiter 48740-07-24 23:46 G 19523184.37 19523184.49 19523184.62 0.0519 0.0018

Mars 48740-10-19 08:24 G 19523270.77 19523270.85 19523270.93 0.1870 0.1278

Saturn 48742-08-09 02:53 G 19523929.50 19523929.62 19523929.75 0.0261 0.0194

Saturn 48742-11-06 00:14 G 19524018.32 19524018.51 19524018.71 0.0262 0.0014

Saturn 48743-02-02 21:36 G 19524107.26 19524107.40 19524107.55 0.0262 0.0169

Moon 48745-11-09 08:53 G 19525117.82 19525117.87 19525117.93 0.2657 0.2267

Earth 48745-11-09 09:22 G 19525117.84 19525117.89 19525117.95 0.2662 0.2257 *

Jupiter 48746-09-12 18:58 G 19525425.12 19525425.29 19525425.46 0.0507 0.0208

Earth 48748-05-19 06:00 G 19526039.65 19526039.75 19526039.85 0.2673 0.2034

Moon 48748-05-19 06:58 G 19526039.68 19526039.79 19526039.89 0.2667 0.2020 *

Earth 48751-11-19 01:26 G 19527318.51 19527318.56 19527318.61 0.2658 0.2325

Moon 48751-11-19 01:41 G 19527318.53 19527318.57 19527318.61 0.2663 0.2443 *

Jupiter 48752-05-13 04:19 G 19527494.56 19527494.68 19527494.80 0.0519 0.0144

Jupiter 48752-08-10 08:24 G 19527583.79 19527583.85 19527583.90 0.0516 0.0456

Mars 48752-12-15 02:10 G 19527710.42 19527710.59 19527710.75 0.1654 0.0223

Saturn 48756-09-12 07:12 G 19529077.72 19529077.80 19529077.88 0.0301 0.0232

Saturn 48756-12-09 19:26 G 19529166.18 19529166.31 19529166.44 0.0300 0.0050

Saturn 48757-03-08 07:41 G 19529254.70 19529254.82 19529254.93 0.0300 0.0129

Jupiter 48758-07-01 15:22 G 19529735.04 19529735.14 19529735.25 0.0507 0.0422

Jupiter 48758-09-30 05:46 G 19529825.67 19529825.74 19529825.81 0.0509 0.0470

Moon 48758-11-12 02:10 G 19529868.49 19529868.59 19529868.68 0.2662 0.1159

Earth 48758-11-12 02:38 G 19529868.51 19529868.61 19529868.71 0.2661 0.1037 *

Mars 48761-07-07 14:24 G 19530837.04 19530837.10 19530837.17 0.1881 0.1515

Uranus 48761-07-08 08:24 G 19530837.85 19530837.85 19530837.86 0.0140 0.0140

Uranus 48761-10-04 11:46 G 19530925.93 19530925.99 19530926.06 0.0140 0.0119

Uranus 48761-12-31 15:07 G 19531014.04 19531014.13 19531014.22 0.0140 0.0099

Uranus 48762-03-29 18:14 G 19531102.16 19531102.26 19531102.37 0.0140 0.0078

Mars 48762-05-07 02:24 G 19531140.51 19531140.60 19531140.70 0.1659 0.1352

Uranus 48762-06-25 21:36 G 19531190.28 19531190.40 19531190.52 0.0141 0.0057

Uranus 48762-09-22 00:43 G 19531278.41 19531278.53 19531278.66 0.0141 0.0037

Uranus 48762-12-19 04:05 G 19531366.55 19531366.67 19531366.80 0.0141 0.0016

Uranus 48763-03-17 07:26 G 19531454.68 19531454.81 19531454.94 0.0141 0.0006

Uranus 48763-06-13 10:48 G 19531542.82 19531542.95 19531543.08 0.0141 0.0027

Uranus 48763-09-09 14:10 G 19531630.97 19531631.09 19531631.21 0.0141 0.0048

Uranus 48763-12-06 17:17 G 19531719.11 19531719.22 19531719.34 0.0141 0.0070

Jupiter 48764-03-01 08:53 G 19531804.77 19531804.87 19531804.97 0.0519 0.0297

Uranus 48764-03-03 20:38 G 19531807.26 19531807.36 19531807.46 0.0141 0.0091

Jupiter 48764-05-29 12:58 G 19531893.94 19531894.04 19531894.14 0.0517 0.0306

Uranus 48764-05-30 23:46 G 19531895.42 19531895.49 19531895.58 0.0141 0.0112

Uranus 48764-08-27 03:07 G 19531983.60 19531983.63 19531983.68 0.0141 0.0134

Venus 48765-02-19 00:00 G 19532159.45 19532159.50 19532159.56 0.3689 0.2988

Venus 48767-11-29 22:48 G 19533173.33 19533173.45 19533173.56 0.3682 0.2555

Pluto 48768-08-04 14:10 G 19533422.03 19533422.09 19533422.17 0.0076 0.0070

Pluto 48768-10-31 16:19 G 19533510.06 19533510.18 19533510.35 0.0076 0.0050

Pluto 48769-01-27 19:12 G 19533598.13 19533598.30 19533598.48 0.0076 0.0029

Pluto 48769-04-25 21:36 G 19533686.22 19533686.40 19533686.60 0.0076 0.0008

Pluto 48769-07-23 00:00 G 19533774.32 19533774.50 19533774.69 0.0076 0.0013

Pluto 48769-10-19 02:38 G 19533862.43 19533862.61 19533862.78 0.0075 0.0033

Pluto 48770-01-15 04:34 G 19533950.57 19533950.69 19533950.84 0.0075 0.0054

Pluto 48770-04-13 06:58 G 19534038.77 19534038.79 19534038.84 0.0075 0.0074

Jupiter 48770-07-19 01:55 G 19534135.42 19534135.58 19534135.75 0.0508 0.0250

Venus 48770-09-04 15:07 G 19534183.03 19534183.13 19534183.22 0.3689 0.0808

Mars 48770-11-27 23:31 G 19534267.36 19534267.48 19534267.59 0.1876 0.0209

Moon 48771-11-14 19:26 G 19534619.20 19534619.31 19534619.42 0.2664 0.0108

Earth 48771-11-14 19:55 G 19534619.22 19534619.33 19534619.44 0.2660 0.0179 *

Saturn 48771-12-27 01:55 G 19534661.52 19534661.58 19534661.65 0.0261 0.0245

Saturn 48772-03-24 23:17 G 19534750.28 19534750.47 19534750.66 0.0262 0.0065

Saturn 48772-06-21 20:38 G 19534839.19 19534839.36 19534839.54 0.0262 0.0117

Jupiter 48775-12-19 13:12 G 19536114.99 19536115.05 19536115.11 0.0520 0.0457

Jupiter 48776-03-17 17:17 G 19536204.10 19536204.22 19536204.34 0.0518 0.0151

Venus 48776-03-20 06:00 G 19536206.66 19536206.75 19536206.84 0.3688 0.1424

Mars 48780-04-19 08:24 G 19537697.76 19537697.85 19537697.94 0.1870 0.1111

Earth 48781-05-17 03:36 G 19538090.48 19538090.65 19538090.81 0.2672 0.0422

Moon 48781-05-17 05:17 G 19538090.55 19538090.72 19538090.88 0.2669 0.0284 *

Venus 48781-10-03 21:07 G 19538230.36 19538230.38 19538230.39 0.3688 0.3628

Jupiter 48782-05-06 21:50 G 19538445.22 19538445.41 19538445.59 0.0508 0.0027

Earth 48784-11-16 12:58 G 19539369.95 19539370.04 19539370.13 0.2659 0.1367

Moon 48784-11-16 13:12 G 19539369.96 19539370.05 19539370.14 0.2666 0.1416 *

Saturn 48786-01-30 09:50 G 19539809.86 19539809.91 19539809.96 0.0301 0.0276

Saturn 48786-04-28 22:05 G 19539898.30 19539898.42 19539898.55 0.0300 0.0095

Saturn 48786-07-26 10:19 G 19539986.81 19539986.93 19539987.05 0.0300 0.0086

Saturn 48786-10-22 22:19 G 19540075.38 19540075.43 19540075.49 0.0299 0.0264

Jupiter 48788-01-04 22:05 G 19540514.29 19540514.42 19540514.55 0.0518 0.0003

Moon 48791-11-10 13:41 G 19541920.01 19541920.07 19541920.13 0.2658 0.2136

Earth 48791-11-10 14:10 G 19541920.02 19541920.09 19541920.16 0.2662 0.2015 *

Mars 48792-06-15 02:38 G 19542137.45 19542137.61 19542137.78 0.1654 0.0455

Jupiter 48794-02-22 16:19 G 19542755.02 19542755.18 19542755.36 0.0507 0.0215

Earth 48794-05-20 12:58 G 19542842.00 19542842.04 19542842.08 0.2673 0.2564

Earth 48797-11-19 06:00 G 19544120.73 19544120.75 19544120.78 0.2658 0.2559

Moon 48797-11-19 06:43 G 19544120.75 19544120.78 19544120.80 0.2662 0.2581 *

Jupiter 48799-10-24 02:53 G 19544824.50 19544824.62 19544824.74 0.0519 0.0148

Jupiter 48800-01-21 06:43 G 19544913.73 19544913.78 19544913.84 0.0517 0.0455

Mars 48801-01-05 14:24 G 19545264.05 19545264.10 19545264.15 0.1882 0.1683

Saturn 48801-08-12 00:00 G 19545482.32 19545482.50 19545482.68 0.0262 0.0103

Mars 48801-11-05 03:07 G 19545567.51 19545567.63 19545567.75 0.1659 0.1127

Saturn 48801-11-08 21:22 G 19545571.21 19545571.39 19545571.58 0.0262 0.0079

Uranus 48802-02-05 09:22 G 19545659.84 19545659.89 19545659.98 0.0138 0.0128

Uranus 48802-05-04 17:31 G 19545748.10 19545748.23 19545748.38 0.0138 0.0098

Uranus 48802-08-01 01:41 G 19545836.40 19545836.57 19545836.74 0.0138 0.0068

Uranus 48802-10-28 09:36 G 19545924.71 19545924.90 19545925.09 0.0138 0.0038

Uranus 48803-01-24 17:46 G 19546013.04 19546013.24 19546013.43 0.0137 0.0009

Uranus 48803-04-23 01:41 G 19546101.37 19546101.57 19546101.76 0.0137 0.0022

Uranus 48803-07-20 09:22 G 19546189.72 19546189.89 19546190.08 0.0137 0.0052

Uranus 48803-10-16 17:17 G 19546278.07 19546278.22 19546278.39 0.0137 0.0081

Uranus 48804-01-13 01:12 G 19546366.44 19546366.55 19546366.68 0.0137 0.0110

Neptune 48804-04-06 02:24 G 19546450.55 19546450.60 19546450.70 0.0088 0.0082

Neptune 48804-07-03 06:29 G 19546538.66 19546538.77 19546538.90 0.0088 0.0070

Neptune 48804-09-29 10:05 G 19546626.79 19546626.92 19546627.08 0.0089 0.0059

Moon 48804-11-12 06:43 G 19546670.68 19546670.78 19546670.88 0.2663 0.0847

Earth 48804-11-12 07:26 G 19546670.71 19546670.81 19546670.91 0.2660 0.0801 *

Neptune 48804-12-26 14:10 G 19546714.92 19546715.09 19546715.26 0.0089 0.0047

Neptune 48805-03-24 17:46 G 19546803.07 19546803.24 19546803.43 0.0089 0.0035

Neptune 48805-06-20 21:36 G 19546891.21 19546891.40 19546891.59 0.0089 0.0024

Neptune 48805-09-17 01:26 G 19546979.36 19546979.56 19546979.76 0.0089 0.0012

Jupiter 48805-12-11 12:29 G 19547064.93 19547065.02 19547065.12 0.0506 0.0434

Neptune 48805-12-14 05:17 G 19547067.52 19547067.72 19547067.92 0.0089 0.0001

Jupiter 48806-03-12 02:38 G 19547155.53 19547155.61 19547155.69 0.0509 0.0455

Neptune 48806-03-12 08:53 G 19547155.68 19547155.87 19547156.07 0.0089 0.0011 *

Neptune 48806-06-08 12:29 G 19547243.84 19547244.02 19547244.22 0.0089 0.0023

Neptune 48806-09-04 16:34 G 19547332.01 19547332.19 19547332.37 0.0089 0.0034

Neptune 48806-12-01 19:55 G 19547420.18 19547420.33 19547420.52 0.0089 0.0046

Neptune 48807-02-27 23:31 G 19547508.35 19547508.48 19547508.65 0.0089 0.0058

Neptune 48807-05-27 03:36 G 19547596.54 19547596.65 19547596.78 0.0089 0.0069

Neptune 48807-08-23 07:12 G 19547684.74 19547684.80 19547684.90 0.0089 0.0081

Mars 48810-05-28 23:17 G 19548694.36 19548694.47 19548694.59 0.1876 0.0363

Jupiter 48811-08-12 07:12 G 19549134.70 19549134.80 19549134.91 0.0520 0.0302

Jupiter 48811-11-09 11:17 G 19549223.87 19549223.97 19549224.07 0.0517 0.0303

Moon 48814-05-15 03:07 G 19550141.58 19550141.63 19550141.67 0.2671 0.2542

Saturn 48815-09-16 00:29 G 19550630.41 19550630.52 19550630.64 0.0300 0.0142

Saturn 48815-12-13 12:43 G 19550718.90 19550719.03 19550719.16 0.0300 0.0039

Saturn 48816-03-11 00:43 G 19550807.45 19550807.53 19550807.62 0.0299 0.0217

Moon 48817-11-15 00:14 G 19551421.41 19551421.51 19551421.62 0.2665 0.0350

Earth 48817-11-15 00:29 G 19551421.42 19551421.52 19551421.63 0.2659 0.0421 *

Jupiter 48817-12-28 22:48 G 19551465.29 19551465.45 19551465.62 0.0508 0.0235

Venus 48818-12-20 13:26 G 19551822.00 19551822.06 19551822.12 0.3682 0.3418

Mars 48819-10-19 08:10 G 19552124.75 19552124.84 19552124.94 0.1870 0.0970

Venus 48821-09-25 21:22 G 19552832.31 19552832.39 19552832.47 0.3689 0.2202

Jupiter 48823-05-31 11:46 G 19553444.93 19553444.99 19553445.05 0.0520 0.0456

Jupiter 48823-08-28 15:50 G 19553534.05 19553534.16 19553534.29 0.0518 0.0154

Venus 48827-04-11 12:14 G 19554855.91 19554856.01 19554856.11 0.3689 0.0081

Earth 48827-05-18 10:19 G 19554892.77 19554892.93 19554893.09 0.2672 0.0111

Moon 48827-05-18 11:46 G 19554892.83 19554892.99 19554893.16 0.2668 0.0295 *

Jupiter 48829-10-16 18:58 G 19555775.10 19555775.29 19555775.48 0.0508 0.0017

Earth 48830-11-17 17:46 G 19556172.15 19556172.24 19556172.32 0.2658 0.1599

Moon 48830-11-17 18:00 G 19556172.16 19556172.25 19556172.33 0.2665 0.1611 *

Saturn 48830-12-29 23:17 G 19556214.32 19556214.47 19556214.63 0.0261 0.0152

Saturn 48831-03-28 20:53 G 19556303.17 19556303.37 19556303.56 0.0262 0.0030

Saturn 48831-06-25 18:14 G 19556392.15 19556392.26 19556392.37 0.0262 0.0213

Mars 48831-12-15 03:36 G 19556564.50 19556564.65 19556564.80 0.1654 0.0696

Venus 48832-10-25 03:22 G 19556879.56 19556879.64 19556879.72 0.3688 0.2225

Jupiter 48835-06-16 20:10 G 19557844.22 19557844.34 19557844.47 0.0518 0.0014

Moon 48837-11-10 18:29 G 19558722.19 19558722.27 19558722.35 0.2659 0.1801

Earth 48837-11-10 18:58 G 19558722.21 19558722.29 19558722.37 0.2661 0.1777 *

Mars 48840-07-06 14:24 G 19559691.08 19559691.10 19559691.12 0.1882 0.1848

Mars 48841-05-06 03:36 G 19559994.51 19559994.65 19559994.80 0.1659 0.0900

Jupiter 48841-08-04 14:53 G 19560084.95 19560085.12 19560085.29 0.0507 0.0208

Saturn 48845-02-02 03:22 G 19561362.54 19561362.64 19561362.74 0.0301 0.0184

Saturn 48845-05-01 15:36 G 19561451.02 19561451.15 19561451.28 0.0300 0.0007

Uranus 48845-07-28 15:36 G 19561539.13 19561539.15 19561539.19 0.0140 0.0135

Saturn 48845-07-29 03:50 G 19561539.56 19561539.66 19561539.76 0.0299 0.0177

Uranus 48845-10-24 18:58 G 19561627.22 19561627.29 19561627.37 0.0140 0.0114

Uranus 48846-01-20 22:19 G 19561715.33 19561715.43 19561715.53 0.0140 0.0093

Uranus 48846-04-19 01:26 G 19561803.46 19561803.56 19561803.68 0.0140 0.0073

Uranus 48846-07-16 04:48 G 19561891.58 19561891.70 19561891.82 0.0141 0.0052

Uranus 48846-10-12 08:10 G 19561979.71 19561979.84 19561979.97 0.0141 0.0031

Uranus 48847-01-08 11:31 G 19562067.85 19562067.98 19562068.11 0.0141 0.0010

Jupiter 48847-04-05 00:58 G 19562154.42 19562154.54 19562154.66 0.0519 0.0158

Uranus 48847-04-06 14:53 G 19562155.99 19562156.12 19562156.25 0.0141 0.0012

Jupiter 48847-07-03 04:48 G 19562243.64 19562243.70 19562243.77 0.0517 0.0445

Uranus 48847-07-03 18:00 G 19562244.13 19562244.25 19562244.38 0.0141 0.0033

Uranus 48847-09-29 21:22 G 19562332.27 19562332.39 19562332.51 0.0141 0.0054

Uranus 48847-12-27 00:43 G 19562420.42 19562420.53 19562420.64 0.0141 0.0075

Uranus 48848-03-24 03:50 G 19562508.57 19562508.66 19562508.76 0.0141 0.0097

Uranus 48848-06-20 07:12 G 19562596.74 19562596.80 19562596.88 0.0141 0.0118

Uranus 48848-09-16 10:19 G 19562684.93 19562684.93 19562684.97 0.0141 0.0140

Mars 48849-11-26 23:17 G 19563121.36 19563121.47 19563121.58 0.1876 0.0520

Moon 48850-11-13 11:31 G 19563472.88 19563472.98 19563473.09 0.2662 0.0704

Earth 48850-11-13 12:14 G 19563472.90 19563473.01 19563473.11 0.2660 0.0564 *

Jupiter 48853-05-23 09:50 G 19564394.82 19564394.91 19564395.00 0.0506 0.0443

Jupiter 48853-08-21 23:46 G 19564485.41 19564485.49 19564485.59 0.0508 0.0444

Jupiter 48859-01-22 05:31 G 19566464.63 19566464.73 19566464.83 0.0520 0.0311

Mars 48859-04-19 08:10 G 19566551.74 19566551.84 19566551.95 0.1870 0.0801

Jupiter 48859-04-21 09:36 G 19566553.80 19566553.90 19566554.00 0.0518 0.0296

Earth 48860-05-15 08:10 G 19566943.76 19566943.84 19566943.92 0.2671 0.2295

Moon 48860-05-15 10:05 G 19566943.82 19566943.92 19566944.01 0.2671 0.2149 *

Saturn 48860-05-18 00:14 G 19566946.39 19566946.51 19566946.65 0.0262 0.0187

Saturn 48860-08-14 21:50 G 19567035.22 19567035.41 19567035.60 0.0262 0.0006

Saturn 48860-11-11 19:12 G 19567124.16 19567124.30 19567124.45 0.0263 0.0178

Moon 48863-11-16 05:02 G 19568223.61 19568223.71 19568223.82 0.2666 0.0661

Earth 48863-11-16 05:17 G 19568223.62 19568223.72 19568223.83 0.2659 0.0640 *

Jupiter 48865-06-09 19:41 G 19568795.15 19568795.32 19568795.49 0.0508 0.0218

Jupiter 48870-11-10 09:50 G 19570774.86 19570774.91 19570774.97 0.0520 0.0466

Jupiter 48871-02-07 14:10 G 19570863.97 19570864.09 19570864.21 0.0518 0.0143

Mars 48871-06-15 04:05 G 19570991.53 19570991.67 19570991.81 0.1654 0.0909

Venus 48872-10-17 03:36 G 19571481.63 19571481.65 19571481.67 0.3689 0.3592

Earth 48873-05-18 17:17 G 19571695.06 19571695.22 19571695.38 0.2672 0.0644

Moon 48873-05-18 18:29 G 19571695.11 19571695.27 19571695.43 0.2667 0.0803 *

Saturn 48874-06-22 06:29 G 19572094.68 19572094.77 19572094.85 0.0301 0.0223

Saturn 48874-09-18 18:43 G 19572183.15 19572183.28 19572183.41 0.0300 0.0042

Saturn 48874-12-16 06:43 G 19572271.67 19572271.78 19572271.90 0.0300 0.0138

Venus 48875-07-27 16:19 G 19572495.02 19572495.18 19572495.34 0.3682 0.0500

Earth 48876-11-17 22:34 G 19572974.36 19572974.44 19572974.51 0.2658 0.1829

Moon 48876-11-17 22:48 G 19572974.37 19572974.45 19572974.52 0.2665 0.1863 *

Jupiter 48877-03-28 15:36 G 19573104.96 19573105.15 19573105.34 0.0508 0.0006

Venus 48878-05-02 18:29 G 19573505.18 19573505.27 19573505.36 0.3689 0.1391

Mars 48880-11-04 04:34 G 19574421.53 19574421.69 19574421.84 0.1659 0.0656

Jupiter 48882-11-26 18:43 G 19575174.16 19575174.28 19575174.41 0.0518 0.0010

Moon 48883-11-11 23:02 G 19575524.38 19575524.46 19575524.54 0.2661 0.1687

Earth 48883-11-11 23:46 G 19575524.40 19575524.49 19575524.58 0.2661 0.1542 *

Venus 48883-11-16 09:36 G 19575528.80 19575528.90 19575529.00 0.3688 0.0829

Neptune 48884-08-03 07:26 G 19575789.77 19575789.81 19575789.85 0.0089 0.0083

Neptune 48884-10-30 08:24 G 19575877.80 19575877.85 19575877.93 0.0089 0.0076

Neptune 48885-01-26 09:50 G 19575965.83 19575965.91 19575966.00 0.0089 0.0068

Neptune 48885-04-24 11:02 G 19576053.87 19576053.96 19576054.06 0.0089 0.0060

Neptune 48885-07-21 12:29 G 19576141.92 19576142.02 19576142.13 0.0089 0.0052

Neptune 48885-10-17 13:41 G 19576229.96 19576230.07 19576230.19 0.0089 0.0045

Neptune 48886-01-13 14:53 G 19576318.01 19576318.12 19576318.25 0.0089 0.0037

Uranus 48886-02-25 17:02 G 19576361.12 19576361.21 19576361.32 0.0138 0.0119

Neptune 48886-04-11 16:19 G 19576406.06 19576406.18 19576406.30 0.0089 0.0029

Uranus 48886-05-25 01:12 G 19576449.40 19576449.55 19576449.70 0.0138 0.0089

Neptune 48886-07-08 17:31 G 19576494.11 19576494.23 19576494.36 0.0089 0.0022

Uranus 48886-08-21 08:53 G 19576537.71 19576537.87 19576538.06 0.0138 0.0060

Neptune 48886-10-04 18:43 G 19576582.16 19576582.28 19576582.41 0.0089 0.0014

Uranus 48886-11-17 17:02 G 19576626.02 19576626.21 19576626.41 0.0137 0.0030

Neptune 48886-12-31 20:10 G 19576670.21 19576670.34 19576670.47 0.0089 0.0006

Uranus 48887-02-14 01:12 G 19576714.35 19576714.55 19576714.75 0.0137 0.0001

Neptune 48887-03-29 21:22 G 19576758.26 19576758.39 19576758.52 0.0089 0.0002

Uranus 48887-05-13 09:07 G 19576802.69 19576802.88 19576803.07 0.0137 0.0030

Neptune 48887-06-25 22:34 G 19576846.31 19576846.44 19576846.57 0.0089 0.0009

Uranus 48887-08-09 16:48 G 19576891.03 19576891.20 19576891.39 0.0137 0.0060

Neptune 48887-09-21 23:46 G 19576934.37 19576934.49 19576934.62 0.0089 0.0017

Uranus 48887-11-06 00:58 G 19576979.39 19576979.54 19576979.69 0.0137 0.0089

Neptune 48887-12-19 00:58 G 19577022.42 19577022.54 19577022.67 0.0089 0.0025

Uranus 48888-02-02 08:38 G 19577067.78 19577067.86 19577067.97 0.0137 0.0119

Neptune 48888-03-16 02:24 G 19577110.48 19577110.60 19577110.72 0.0089 0.0032

Neptune 48888-06-12 03:36 G 19577198.54 19577198.65 19577198.77 0.0089 0.0040

Neptune 48888-09-08 04:48 G 19577286.59 19577286.70 19577286.81 0.0089 0.0047

Neptune 48888-12-05 06:00 G 19577374.66 19577374.75 19577374.86 0.0089 0.0055

Jupiter 48889-01-14 11:46 G 19577414.83 19577414.99 19577415.16 0.0507 0.0223

Neptune 48889-03-03 07:12 G 19577462.72 19577462.80 19577462.90 0.0089 0.0063

Mars 48889-05-27 23:17 G 19577548.36 19577548.47 19577548.58 0.1876 0.0676

Neptune 48889-05-30 08:24 G 19577550.78 19577550.85 19577550.94 0.0089 0.0071

Venus 48889-06-01 00:29 G 19577552.47 19577552.52 19577552.58 0.3688 0.3042

Neptune 48889-08-26 09:50 G 19577638.85 19577638.91 19577638.97 0.0089 0.0078

Saturn 48889-10-05 00:00 G 19577678.42 19577678.50 19577678.59 0.0261 0.0233

Neptune 48889-11-22 10:48 G 19577726.93 19577726.95 19577727.00 0.0089 0.0086

Saturn 48890-01-01 21:22 G 19577767.20 19577767.39 19577767.58 0.0262 0.0052

Saturn 48890-03-31 18:58 G 19577856.12 19577856.29 19577856.45 0.0262 0.0131

Jupiter 48894-09-14 23:02 G 19579484.34 19579484.46 19579484.58 0.0519 0.0169

Jupiter 48894-12-13 02:53 G 19579573.56 19579573.62 19579573.69 0.0517 0.0433

Moon 48896-11-13 16:19 G 19580275.08 19580275.18 19580275.29 0.2663 0.0355

Earth 48896-11-13 17:02 G 19580275.10 19580275.21 19580275.31 0.2660 0.0342 *

Mars 48898-10-18 08:10 G 19580978.74 19580978.84 19580978.95 0.1870 0.0636

Jupiter 48900-11-03 07:41 G 19581724.74 19581724.82 19581724.91 0.0506 0.0443

Jupiter 48901-02-01 21:50 G 19581815.32 19581815.41 19581815.50 0.0509 0.0446

Saturn 48903-11-10 09:22 G 19582826.83 19582826.89 19582826.95 0.0301 0.0264

Saturn 48904-02-06 21:36 G 19582915.28 19582915.40 19582915.52 0.0300 0.0082

Saturn 48904-05-05 09:50 G 19583003.79 19583003.91 19583004.03 0.0300 0.0097

Saturn 48904-08-01 21:50 G 19583092.37 19583092.41 19583092.46 0.0299 0.0275

Earth 48906-05-17 14:53 G 19583746.00 19583746.12 19583746.24 0.2671 0.1774

Moon 48906-05-17 16:48 G 19583746.06 19583746.20 19583746.33 0.2670 0.1474 *

Jupiter 48906-07-05 03:22 G 19583794.55 19583794.64 19583794.74 0.0520 0.0323

Jupiter 48906-10-02 07:41 G 19583883.71 19583883.82 19583883.92 0.0518 0.0284

Moon 48909-11-17 10:05 G 19585025.81 19585025.92 19585026.02 0.2666 0.0813

Earth 48909-11-17 10:05 G 19585025.82 19585025.92 19585026.02 0.2659 0.0873 *

Mars 48910-12-15 04:48 G 19585418.58 19585418.70 19585418.82 0.1654 0.1148

Jupiter 48912-11-20 16:48 G 19586125.03 19586125.20 19586125.37 0.0508 0.0206

Moon 48916-11-10 10:48 G 19587575.93 19587575.95 19587575.97 0.2657 0.2596

Earth 48916-11-10 11:17 G 19587575.94 19587575.97 19587576.00 0.2662 0.2527 *

Jupiter 48918-04-23 07:55 G 19588104.78 19588104.83 19588104.87 0.0521 0.0479

Jupiter 48918-07-21 12:14 G 19588193.89 19588194.01 19588194.13 0.0519 0.0133

Earth 48919-05-21 00:14 G 19588497.37 19588497.51 19588497.66 0.2673 0.1183

Moon 48919-05-21 01:26 G 19588497.41 19588497.56 19588497.71 0.2667 0.1254 *

Saturn 48919-05-22 22:34 G 19588499.26 19588499.44 19588499.62 0.0262 0.0086

Saturn 48919-08-19 19:55 G 19588588.16 19588588.33 19588588.51 0.0263 0.0097

Mars 48920-05-06 05:02 G 19588848.55 19588848.71 19588848.87 0.1659 0.0435

Earth 48922-11-20 03:07 G 19589776.57 19589776.63 19589776.70 0.2658 0.2064

Moon 48922-11-20 03:36 G 19589776.59 19589776.65 19589776.71 0.2663 0.2144 *

Jupiter 48924-09-08 12:29 G 19590434.83 19590435.02 19590435.21 0.0507 0.0020

Mars 48928-11-26 23:17 G 19591975.37 19591975.47 19591975.57 0.1876 0.0839

Pluto 48929-05-18 12:14 G 19592148.00 19592148.01 19592148.03 0.0068 0.0067

Venus 48929-05-25 00:43 G 19592154.47 19592154.53 19592154.60 0.3689 0.2789

Pluto 48929-08-14 12:43 G 19592235.97 19592236.03 19592236.11 0.0068 0.0057

Uranus 48929-08-18 23:17 G 19592240.42 19592240.47 19592240.52 0.0140 0.0128

Pluto 48929-11-10 13:26 G 19592323.96 19592324.06 19592324.16 0.0068 0.0046

Moon 48929-11-13 03:50 G 19592326.56 19592326.66 19592326.75 0.2661 0.1354

Earth 48929-11-13 04:34 G 19592326.59 19592326.69 19592326.78 0.2661 0.1309 *

Uranus 48929-11-15 02:38 G 19592328.53 19592328.61 19592328.69 0.0140 0.0108

Pluto 48930-02-06 13:41 G 19592411.97 19592412.07 19592412.20 0.0068 0.0036

Uranus 48930-02-11 06:00 G 19592416.64 19592416.75 19592416.85 0.0140 0.0087

Pluto 48930-05-05 14:24 G 19592499.98 19592500.10 19592500.23 0.0068 0.0025

Jupiter 48930-05-09 16:48 G 19592504.07 19592504.20 19592504.32 0.0519 0.0025

Uranus 48930-05-10 09:07 G 19592504.77 19592504.88 19592505.00 0.0141 0.0066

Pluto 48930-08-01 15:07 G 19592588.00 19592588.13 19592588.26 0.0068 0.0014

Uranus 48930-08-06 12:29 G 19592592.90 19592593.02 19592593.14 0.0141 0.0045

Pluto 48930-10-28 15:36 G 19592676.02 19592676.15 19592676.29 0.0068 0.0004

Uranus 48930-11-02 15:36 G 19592681.03 19592681.15 19592681.28 0.0141 0.0025

Pluto 48931-01-24 16:19 G 19592764.04 19592764.18 19592764.31 0.0068 0.0007

Uranus 48931-01-29 18:58 G 19592769.16 19592769.29 19592769.42 0.0141 0.0005

Pluto 48931-04-22 16:48 G 19592852.07 19592852.20 19592852.33 0.0068 0.0018

Uranus 48931-04-27 22:19 G 19592857.30 19592857.43 19592857.56 0.0141 0.0018

Pluto 48931-07-19 17:17 G 19592940.10 19592940.22 19592940.35 0.0069 0.0029

Uranus 48931-07-25 01:41 G 19592945.44 19592945.57 19592945.69 0.0141 0.0039

Pluto 48931-10-15 17:46 G 19593028.14 19593028.24 19593028.36 0.0069 0.0040

Uranus 48931-10-21 04:48 G 19593033.59 19593033.70 19593033.82 0.0141 0.0061

Pluto 48932-01-11 18:14 G 19593116.18 19593116.26 19593116.36 0.0069 0.0051

Uranus 48932-01-17 08:10 G 19593121.74 19593121.84 19593121.95 0.0141 0.0082

Venus 48932-03-03 19:12 G 19593168.17 19593168.30 19593168.42 0.3682 0.2369

Pluto 48932-04-08 18:43 G 19593204.24 19593204.28 19593204.36 0.0069 0.0062

Uranus 48932-04-14 11:31 G 19593209.90 19593209.98 19593210.07 0.0141 0.0103

Uranus 48932-07-11 14:53 G 19593298.06 19593298.12 19593298.18 0.0141 0.0125

Saturn 48933-03-29 12:29 G 19593559.02 19593559.02 19593559.03 0.0301 0.0300

Saturn 48933-06-26 00:58 G 19593647.42 19593647.54 19593647.66 0.0300 0.0118

Saturn 48933-09-22 12:58 G 19593735.92 19593736.04 19593736.17 0.0300 0.0063

Saturn 48933-12-20 01:12 G 19593824.47 19593824.55 19593824.62 0.0299 0.0240

Venus 48934-12-08 15:50 G 19594178.06 19594178.16 19594178.26 0.3689 0.0573

Jupiter 48936-06-27 08:10 G 19594744.68 19594744.84 19594745.01 0.0507 0.0245

Mars 48938-04-19 08:10 G 19595405.73 19595405.84 19595405.95 0.1870 0.0496

Venus 48940-06-23 06:58 G 19596201.70 19596201.79 19596201.87 0.3688 0.1649

Jupiter 48942-02-25 21:22 G 19596814.27 19596814.39 19596814.51 0.0519 0.0173

Jupiter 48942-05-26 01:26 G 19596903.49 19596903.56 19596903.62 0.0517 0.0429

Moon 48942-11-15 21:07 G 19597077.28 19597077.38 19597077.49 0.2665 0.0238

Earth 48942-11-15 21:36 G 19597077.30 19597077.40 19597077.51 0.2660 0.0122 *

Mars 48947-09-09 17:02 G 19598836.18 19598836.21 19598836.24 0.1864 0.1780

Jupiter 48948-04-15 04:34 G 19599054.62 19599054.69 19599054.77 0.0506 0.0460

Jupiter 48948-07-14 18:43 G 19599145.18 19599145.28 19599145.38 0.0509 0.0429

Saturn 48948-10-08 22:05 G 19599231.26 19599231.42 19599231.59 0.0262 0.0132

Saturn 48949-01-05 19:41 G 19599320.13 19599320.32 19599320.51 0.0262 0.0050

Saturn 48949-04-04 17:02 G 19599409.13 19599409.21 19599409.30 0.0262 0.0233

Mars 48950-06-15 05:31 G 19599845.64 19599845.73 19599845.82 0.1654 0.1387

Earth 48952-05-17 22:05 G 19600548.27 19600548.42 19600548.56 0.2671 0.1234

Moon 48952-05-17 23:31 G 19600548.34 19600548.48 19600548.63 0.2668 0.1157 *

Jupiter 48953-12-15 01:26 G 19601124.47 19601124.56 19601124.66 0.0520 0.0334

Jupiter 48954-03-14 05:31 G 19601213.63 19601213.73 19601213.84 0.0517 0.0273

Moon 48955-11-18 14:53 G 19601828.02 19601828.12 19601828.21 0.2666 0.1152

Earth 48955-11-18 14:53 G 19601828.02 19601828.12 19601828.22 0.2659 0.1100 *

Mars 48959-11-05 05:46 G 19603275.57 19603275.74 19603275.91 0.1659 0.0202

Jupiter 48960-05-02 14:24 G 19603454.93 19603455.10 19603455.28 0.0508 0.0204

Moon 48962-11-11 15:22 G 19604378.10 19604378.14 19604378.19 0.2658 0.2364

Earth 48962-11-11 16:05 G 19604378.11 19604378.17 19604378.22 0.2662 0.2289 *

Saturn 48962-11-13 03:50 G 19604379.55 19604379.66 19604379.77 0.0300 0.0159

Saturn 48963-02-09 16:05 G 19604468.04 19604468.17 19604468.29 0.0300 0.0023

Saturn 48963-05-09 04:05 G 19604556.58 19604556.67 19604556.77 0.0299 0.0200

Earth 48965-05-21 07:12 G 19605299.68 19605299.80 19605299.93 0.2673 0.1718

Moon 48965-05-21 08:24 G 19605299.73 19605299.85 19605299.96 0.2667 0.1900 *

Jupiter 48965-10-03 06:00 G 19605434.71 19605434.75 19605434.79 0.0520 0.0491

Jupiter 48965-12-31 10:05 G 19605523.80 19605523.92 19605524.05 0.0518 0.0122

Mars 48968-05-27 23:02 G 19606402.37 19606402.46 19606402.56 0.1876 0.0992

Earth 48968-11-20 07:55 G 19606578.78 19606578.83 19606578.88 0.2658 0.2293

Moon 48968-11-20 08:24 G 19606578.80 19606578.85 19606578.90 0.2662 0.2319 *

Neptune 48969-01-02 00:14 G 19606621.44 19606621.51 19606621.62 0.0089 0.0079

Neptune 48969-03-31 04:19 G 19606709.56 19606709.68 19606709.81 0.0089 0.0067

Neptune 48969-06-27 07:55 G 19606797.69 19606797.83 19606797.99 0.0089 0.0056

Neptune 48969-09-23 11:46 G 19606885.82 19606885.99 19606886.17 0.0089 0.0044

Neptune 48969-12-20 15:22 G 19606973.97 19606974.14 19606974.34 0.0089 0.0033

Neptune 48970-03-18 19:26 G 19607062.11 19607062.31 19607062.50 0.0089 0.0021

Uranus 48970-03-19 00:58 G 19607062.43 19607062.54 19607062.67 0.0138 0.0109 *

Neptune 48970-06-14 23:02 G 19607150.27 19607150.46 19607150.66 0.0089 0.0010

Uranus 48970-06-15 09:07 G 19607150.72 19607150.88 19607151.05 0.0138 0.0079

Neptune 48970-09-11 02:53 G 19607238.42 19607238.62 19607238.82 0.0089 0.0002

Uranus 48970-09-11 17:02 G 19607239.03 19607239.21 19607239.40 0.0138 0.0049

Neptune 48970-12-08 06:29 G 19607326.58 19607326.77 19607326.97 0.0089 0.0014

Uranus 48970-12-09 01:12 G 19607327.35 19607327.55 19607327.74 0.0137 0.0019

Neptune 48971-03-06 10:05 G 19607414.74 19607414.92 19607415.12 0.0089 0.0026

Uranus 48971-03-07 09:07 G 19607415.68 19607415.88 19607416.08 0.0137 0.0011

Neptune 48971-06-02 14:10 G 19607502.91 19607503.09 19607503.27 0.0089 0.0037

Uranus 48971-06-03 17:02 G 19607504.02 19607504.21 19607504.40 0.0137 0.0041

Neptune 48971-08-29 17:31 G 19607591.08 19607591.23 19607591.41 0.0089 0.0049

Uranus 48971-08-31 00:58 G 19607592.37 19607592.54 19607592.71 0.0137 0.0070

Neptune 48971-11-25 21:36 G 19607679.26 19607679.40 19607679.55 0.0089 0.0060

Uranus 48971-11-27 08:38 G 19607680.74 19607680.86 19607681.01 0.0137 0.0100

Jupiter 48972-02-19 09:36 G 19607764.72 19607764.90 19607765.09 0.0507 0.0032

Neptune 48972-02-22 01:12 G 19607767.45 19607767.55 19607767.68 0.0089 0.0072

Uranus 48972-02-23 16:34 G 19607769.14 19607769.19 19607769.27 0.0137 0.0129

Neptune 48972-05-20 05:17 G 19607855.66 19607855.72 19607855.79 0.0089 0.0083

Moon 48975-11-14 08:38 G 19609128.76 19609128.86 19609128.95 0.2661 0.1206

Earth 48975-11-14 09:07 G 19609128.79 19609128.88 19609128.98 0.2661 0.1076 *

Mars 48977-10-18 08:10 G 19609832.73 19609832.84 19609832.95 0.1870 0.0323

Jupiter 48977-10-19 14:38 G 19609833.99 19609834.11 19609834.24 0.0519 0.0036

Saturn	48978-02-25 23:17 G	19609963.33	19609963.47	19609963.62	0.0262	0.0166
Saturn	48978-05-25 20:53 G	19610052.17	19610052.37	19610052.56	0.0262	0.0017
Saturn	48978-08-22 18:00 G	19610141.14	19610141.25	19610141.39	0.0263	0.0200
Venus	48983-03-25 09:36 G	19611816.89	19611816.90	19611816.92	0.3682	0.3658
Jupiter	48983-12-08 05:17 G	19612074.57	19612074.72	19612074.89	0.0506	0.0256
Venus	48985-12-29 22:05 G	19612827.34	19612827.42	19612827.50	0.3689	0.1977
Mars	48987-03-10 17:02 G	19613263.16	19613263.21	19613263.26	0.1863	0.1625
Moon	48988-11-16 02:10 G	19613879.48	19613879.59	19613879.69	0.2666	0.0173
Earth	48988-11-16 02:24 G	19613879.49	19613879.60	19613879.71	0.2660	0.0137 *
Jupiter	48989-08-07 19:12 G	19614144.19	19614144.30	19614144.42	0.0519	0.0188
Jupiter	48989-11-04 23:17 G	19614233.40	19614233.47	19614233.54	0.0517	0.0416
Mars	48989-12-14 06:14 G	19614272.72	19614272.76	19614272.79	0.1654	0.1607
Venus	48991-07-15 13:12 G	19614850.95	19614851.05	19614851.15	0.3688	0.0268
Saturn	48992-04-01 07:12 G	19615111.70	19615111.80	19615111.89	0.0300	0.0194
Saturn	48992-06-28 19:12 G	19615200.18	19615200.30	19615200.43	0.0300	0.0017
Saturn	48992-09-25 07:26 G	19615288.70	19615288.81	19615288.92	0.0299	0.0166
Jupiter	48995-09-26 00:58 G	19616384.49	19616384.54	19616384.60	0.0506	0.0482
Jupiter	48995-12-25 15:07 G	19616475.02	19616475.13	19616475.24	0.0509	0.0407
Venus	48997-01-28 04:05 G	19616874.60	19616874.67	19616874.75	0.3688	0.2456
Earth	48998-05-19 04:48 G	19617350.55	19617350.70	19617350.86	0.2671	0.0716
Moon	48998-05-19 06:14 G	19617350.60	19617350.76	19617350.93	0.2667	0.0430 *
Mars	48999-05-06 06:29 G	19617702.60	19617702.77	19617702.94	0.1659	0.0035

50TH MILLENNIUM CE

This is a list of transits of Mercury in the 50th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**49001-05-28 00:00**	**G**	**19618454.40**	**19618454.50**	**19618454.59**	**0.0520**	**0.0339**	
Jupiter	**49001-08-25 04:05**	**G**	**19618543.56**	**19618543.67**	**19618543.78**	**0.0517**	**0.0268**	
Earth	**49001-11-19 19:41**	**G**	**19618630.22**	**19618630.32**	**19618630.41**	**0.2659**	**0.1336**	
Moon	**49001-11-19 19:41**	**G**	**19618630.23**	**19618630.32**	**19618630.41**	**0.2665**	**0.1290**	*
Saturn	**49007-07-16 23:02**	**G**	**19620695.35**	**19620695.46**	**19620695.57**	**0.0261**	**0.0212**	
Saturn	**49007-10-13 20:24**	**G**	**19620784.16**	**19620784.35**	**19620784.54**	**0.0262**	**0.0031**	
Jupiter	**49007-10-14 11:17**	**G**	**19620784.80**	**19620784.97**	**19620785.14**	**0.0508**	**0.0186**	
Mars	**49007-11-27 23:17**	**G**	**19620829.38**	**19620829.47**	**19620829.55**	**0.1876**	**0.1158**	
Saturn	**49008-01-10 17:46**	**G**	**19620873.09**	**19620873.24**	**19620873.40**	**0.0262**	**0.0152**	
Mars	**49008-09-26 06:43**	**G**	**19621132.73**	**19621132.78**	**19621132.84**	**0.1664**	**0.1558**	
Moon	**49008-11-12 20:10**	**G**	**19621180.27**	**19621180.34**	**19621180.40**	**0.2659**	**0.2108**	
Earth	**49008-11-12 20:53**	**G**	**19621180.30**	**19621180.37**	**19621180.43**	**0.2662**	**0.2054**	*
Earth	**49011-05-23 14:24**	**G**	**19622102.01**	**19622102.10**	**19622102.18**	**0.2673**	**0.2260**	
Moon	**49011-05-23 15:07**	**G**	**19622102.04**	**19622102.13**	**19622102.21**	**0.2667**	**0.2250**	*
Jupiter	**49013-03-16 04:05**	**G**	**19622764.64**	**19622764.67**	**19622764.70**	**0.0520**	**0.0499**	
Jupiter	**49013-06-13 08:24**	**G**	**19622853.73**	**19622853.85**	**19622853.97**	**0.0518**	**0.0111**	
Uranus	**49013-09-09 06:29**	**G**	**19622941.72**	**19622941.77**	**19622941.84**	**0.0140**	**0.0123**	
Uranus	**49013-12-06 09:50**	**G**	**19623029.82**	**19623029.91**	**19623030.00**	**0.0140**	**0.0103**	
Uranus	**49014-03-04 13:12**	**G**	**19623117.94**	**19623118.05**	**19623118.15**	**0.0140**	**0.0082**	
Uranus	**49014-05-31 16:34**	**G**	**19623206.07**	**19623206.19**	**19623206.30**	**0.0141**	**0.0061**	
Uranus	**49014-08-27 19:41**	**G**	**19623294.20**	**19623294.32**	**19623294.45**	**0.0141**	**0.0040**	
Earth	**49014-11-22 12:43**	**G**	**19623381.00**	**19623381.03**	**19623381.06**	**0.2658**	**0.2516**	
Moon	**49014-11-22 13:12**	**G**	**19623381.05**	**19623381.05**	**19623381.06**	**0.2662**	**0.2651**	*
Uranus	**49014-11-23 23:02**	**G**	**19623382.33**	**19623382.46**	**19623382.59**	**0.0141**	**0.0019**	
Uranus	**49015-02-20 02:24**	**G**	**19623470.47**	**19623470.60**	**19623470.73**	**0.0141**	**0.0004**	
Uranus	**49015-05-19 05:31**	**G**	**19623558.61**	**19623558.73**	**19623558.86**	**0.0141**	**0.0024**	
Uranus	**49015-08-15 08:53**	**G**	**19623646.75**	**19623646.87**	**19623647.00**	**0.0141**	**0.0045**	

Uranus 49015-11-11 12:00 G 19623734.90 19623735.00 19623735.12 0.0141 0.0067

Uranus 49016-02-07 15:22 G 19623823.05 19623823.14 19623823.25 0.0141 0.0087

Pluto 49016-03-09 23:02 G 19623854.37 19623854.46 19623854.60 0.0076 0.0061

Uranus 49016-05-05 18:43 G 19623911.20 19623911.28 19623911.37 0.0141 0.0109

Pluto 49016-06-06 01:41 G 19623942.42 19623942.57 19623942.74 0.0076 0.0040

Uranus 49016-08-01 22:05 G 19623999.38 19623999.42 19623999.47 0.0141 0.0130

Pluto 49016-09-02 04:19 G 19624030.50 19624030.68 19624030.87 0.0076 0.0019

Pluto 49016-11-29 06:43 G 19624118.59 19624118.78 19624118.97 0.0076 0.0002

Pluto 49017-02-25 08:53 G 19624206.70 19624206.87 19624207.07 0.0076 0.0023

Mars 49017-04-19 08:10 G 19624259.72 19624259.84 19624259.95 0.1870 0.0164

Pluto 49017-05-24 11:17 G 19624294.83 19624294.97 19624295.14 0.0075 0.0043

Pluto 49017-08-20 13:26 G 19624382.98 19624383.06 19624383.19 0.0075 0.0063

Jupiter 49019-08-02 07:12 G 19625094.62 19625094.80 19625094.99 0.0507 0.0036

Saturn 49021-08-20 09:36 G 19625843.83 19625843.90 19625843.98 0.0301 0.0240

Moon 49021-11-15 13:26 G 19625930.95 19625931.06 19625931.16 0.2662 0.0911

Earth 49021-11-15 13:55 G 19625930.98 19625931.08 19625931.18 0.2661 0.0838 *

Saturn 49021-11-16 21:50 G 19625932.29 19625932.41 19625932.54 0.0300 0.0059

Saturn 49022-02-13 10:05 G 19626020.80 19626020.92 19626021.04 0.0300 0.0122

Jupiter 49025-04-01 12:58 G 19627163.91 19627164.04 19627164.16 0.0519 0.0046

Mars 49026-09-09 17:02 G 19627690.14 19627690.21 19627690.28 0.1863 0.1472

Jupiter 49031-05-21 02:53 G 19629404.46 19629404.62 19629404.78 0.0506 0.0264

Moon 49034-11-18 06:58 G 19630681.68 19630681.79 19630681.89 0.2666 0.0304

Earth 49034-11-18 07:12 G 19630681.69 19630681.80 19630681.91 0.2660 0.0369 *

Saturn 49036-12-02 23:46 G 19631427.44 19631427.49 19631427.55 0.0262 0.0249

Jupiter 49037-01-18 17:17 G 19631474.10 19631474.22 19631474.34 0.0520 0.0200

Venus 49037-01-21 04:19 G 19631476.64 19631476.68 19631476.72 0.3689 0.3372

Saturn 49037-03-01 21:07 G 19631516.19 19631516.38 19631516.57 0.0262 0.0068

Jupiter 49037-04-17 21:22 G 19631563.31 19631563.39 19631563.47 0.0517 0.0405

Saturn 49037-05-29 18:29 G 19631605.10 19631605.27 19631605.45 0.0262 0.0115

Mars 49038-11-05 07:12 G 19632129.63 19632129.80 19632129.96 0.1659 0.0262

Venus 49039-10-31 12:43 G 19632489.87 19632490.03 19632490.19 0.3682 0.0747

Venus 49042-08-06 19:26 G 19633500.21 19633500.31 19633500.40 0.3689 0.1167

Jupiter 49043-03-08 22:34 G 19633714.40 19633714.44 19633714.50 0.0506 0.0486

Jupiter 49043-06-07 12:29 G 19633804.91 19633805.02 19633805.14 0.0508 0.0400

Earth 49044-05-20 11:46 G 19634152.83 19634152.99 19634153.16 0.2672 0.0183

Moon 49044-05-20 13:26 G 19634152.89 19634153.06 19634153.22 0.2667 0.0131 *

Mars 49047-05-28 23:02 G 19635256.38 19635256.46 19635256.54 0.1875 0.1311

Earth 49047-11-21 00:14 G 19635432.43 19635432.51 19635432.60 0.2659 0.1563

Moon 49047-11-21 00:29 G 19635432.44 19635432.52 19635432.61 0.2665 0.1645 *

Venus 49048-02-20 10:19 G 19635523.84 19635523.93 19635524.03 0.3688 0.1056

Mars 49048-03-27 07:12 G 19635559.71 19635559.80 19635559.90 0.1665 0.1337

Jupiter 49048-11-06 21:50 G 19635784.32 19635784.41 19635784.50 0.0520 0.0352

Neptune 49049-02-03 05:31 G 19635872.73 19635872.73 19635872.74 0.0089 0.0089

Jupiter 49049-02-04 01:55 G 19635873.48 19635873.58 19635873.69 0.0518 0.0257

Neptune 49049-05-02 06:43 G 19635960.74 19635960.78 19635960.84 0.0089 0.0081

Neptune 49049-07-29 08:10 G 19636048.77 19636048.84 19636048.92 0.0089 0.0073

Neptune 49049-10-25 09:07 G 19636136.81 19636136.88 19636136.98 0.0089 0.0066

Neptune 49050-01-21 10:34 G 19636224.85 19636224.94 19636225.05 0.0089 0.0058

Neptune 49050-04-19 12:00 G 19636312.90 19636313.00 19636313.11 0.0089 0.0050

Neptune 49050-07-16 13:12 G 19636400.94 19636401.05 19636401.17 0.0089 0.0042

Neptune 49050-10-12 14:24 G 19636488.99 19636489.10 19636489.23 0.0089 0.0035

Saturn 49051-01-07 12:58 G 19636575.99 19636576.04 19636576.09 0.0301 0.0275

Neptune 49051-01-08 15:50 G 19636577.04 19636577.16 19636577.29 0.0089 0.0027

Saturn 49051-04-06 01:12 G 19636664.43 19636664.55 19636664.67 0.0300 0.0093

Neptune 49051-04-06 17:02 G 19636665.09 19636665.21 19636665.34 0.0089 0.0019

Saturn 49051-07-03 13:26 G 19636752.94 19636753.06 19636753.18 0.0300 0.0087

Neptune 49051-07-03 18:29 G 19636753.14 19636753.27 19636753.40 0.0089 0.0012 *

Neptune 49051-09-29 19:41 G 19636841.19 19636841.32 19636841.45 0.0089 0.0004

Saturn 49051-09-30 01:26 G 19636841.51 19636841.56 19636841.62 0.0299 0.0265

Neptune 49051-12-26 20:53 G 19636929.24 19636929.37 19636929.50 0.0089 0.0004

Neptune 49052-03-23 22:19 G 19637017.30 19637017.43 19637017.56 0.0089 0.0012

Neptune 49052-06-19 23:17 G 19637105.35 19637105.47 19637105.61 0.0089 0.0020

Neptune 49052-09-16 00:43 G 19637193.41 19637193.53 19637193.66 0.0089 0.0027

Neptune 49052-12-13 01:55 G 19637281.46 19637281.58 19637281.70 0.0089 0.0035

Neptune 49053-03-11 03:07 G 19637369.52 19637369.63 19637369.75 0.0089 0.0042

Neptune 49053-06-07 04:19 G 19637457.58 19637457.68 19637457.80 0.0089 0.0050

Neptune 49053-09-03 05:31 G 19637545.64 19637545.73 19637545.84 0.0089 0.0058

Venus 49053-09-05 01:26 G 19637547.51 19637547.56 19637547.60 0.3688 0.3268

Neptune 49053-11-30 06:58 G 19637633.70 19637633.79 19637633.88 0.0089 0.0065

Uranus 49054-01-11 01:26 G 19637675.50 19637675.56 19637675.65 0.0138 0.0127

Neptune 49054-02-26 08:10 G 19637721.77 19637721.84 19637721.92 0.0089 0.0073

Uranus 49054-04-09 09:36 G 19637763.77 19637763.90 19637764.05 0.0138 0.0097

Neptune 49054-05-25 09:07 G 19637809.84 19637809.88 19637809.95 0.0089 0.0081

Uranus 49054-07-06 17:31 G 19637852.07 19637852.23 19637852.41 0.0138 0.0067

Neptune 49054-08-21 10:34 G 19637897.93 19637897.94 19637897.96 0.0089 0.0088

Uranus 49054-10-03 01:41 G 19637940.38 19637940.57 19637940.76 0.0137 0.0037

Moon 49054-11-14 00:58 G 19637982.46 19637982.54 19637982.61 0.2659 0.1938

Earth 49054-11-14 01:26 G 19637982.48 19637982.56 19637982.64 0.2662 0.1817 *

Uranus 49054-12-30 09:36 G 19638028.71 19638028.90 19638029.10 0.0137 0.0008

Jupiter 49055-03-26 07:55 G 19638114.65 19638114.83 19638115.01 0.0508 0.0167

Uranus 49055-03-28 17:31 G 19638117.04 19638117.23 19638117.43 0.0137 0.0023

Uranus 49055-06-25 01:26 G 19638205.39 19638205.56 19638205.75 0.0137 0.0053

Uranus 49055-09-21 09:22 G 19638293.74 19638293.89 19638294.06 0.0137 0.0082

Uranus 49055-12-18 17:17 G 19638382.12 19638382.22 19638382.34 0.0137 0.0111

Mars 49056-10-18 07:55 G 19638686.72 19638686.83 19638686.94 0.1870 0.0018

Jupiter 49060-08-26 02:24 G 19640094.58 19640094.60 19640094.64 0.0520 0.0503

Jupiter 49060-11-23 06:43 G 19640183.66 19640183.78 19640183.91 0.0518 0.0111

Mars 49066-03-10 17:02 G 19642117.13 19642117.21 19642117.29 0.1864 0.1298

Saturn 49066-07-19 20:38 G 19642248.19 19642248.36 19642248.53 0.0261 0.0116

Saturn 49066-10-16 18:00 G 19642337.06 19642337.25 19642337.44 0.0262 0.0066

Jupiter 49067-01-12 04:05 G 19642424.49 19642424.67 19642424.86 0.0508 0.0052

Saturn 49067-01-13 15:22 G 19642426.09 19642426.14 19642426.20 0.0262 0.0249

Moon 49067-11-16 18:14 G 19642733.15 19642733.26 19642733.36 0.2664 0.0673

Earth 49067-11-16 18:43 G 19642733.18 19642733.28 19642733.39 0.2661 0.0603 *

Jupiter 49072-09-11 11:17 G 19644493.84 19644493.97 19644494.09 0.0519 0.0052

Earth 49077-05-18 09:36 G 19646203.86 19646203.90 19646203.94 0.2670 0.2574

Moon 49077-05-18 11:17 G 19646203.90 19646203.97 19646204.04 0.2668 0.2375 *

Mars 49078-05-06 07:41 G 19646556.66 19646556.82 19646556.98 0.1659 0.0488

Jupiter 49078-10-31 00:29 G 19646734.36 19646734.52 19646734.68 0.0507 0.0268

Saturn 49080-08-23 03:22 G 19647396.53 19647396.64 19647396.76 0.0301 0.0144

Moon 49080-11-18 11:46 G 19647483.88 19647483.99 19647484.09 0.2666 0.0601

Earth 49080-11-18 12:00 G 19647483.89 19647484.00 19647484.10 0.2660 0.0603 *

Saturn 49080-11-19 15:36 G 19647485.03 19647485.15 19647485.28 0.0300 0.0038

Saturn 49081-02-16 03:50 G 19647573.57 19647573.66 19647573.75 0.0300 0.0216

Jupiter 49084-06-30 15:36 G 19648804.04 19648804.15 19648804.27 0.0519 0.0203

Jupiter 49084-09-27 19:41 G 19648893.24 19648893.32 19648893.40 0.0517 0.0400

Mars 49086-11-26 23:02 G 19649683.39 19649683.46 19649683.53 0.1876 0.1469

Mars 49087-09-26 08:10 G 19649986.71 19649986.84 19649986.96 0.1664 0.1098

Earth 49090-05-21 18:43 G 19650955.12 19650955.28 19650955.44 0.2672 0.0351

Moon 49090-05-21 20:10 G 19650955.18 19650955.34 19650955.50 0.2667 0.0595 *

Jupiter 49090-08-18 20:24 G 19651044.31 19651044.35 19651044.39 0.0506 0.0490

Jupiter 49090-11-17 10:19 G 19651134.81 19651134.93 19651135.04 0.0508 0.0395

Venus 49093-08-28 01:41 G 19652149.50 19652149.57 19652149.64 0.3689 0.2573

Earth 49093-11-21 05:02 G 19652234.63 19652234.71 19652234.79 0.2659 0.1793

Moon 49093-11-21 05:31 G 19652234.65 19652234.73 19652234.80 0.2665 0.1806 *

Saturn 49095-12-06 20:53 G 19652980.22 19652980.37 19652980.53 0.0262 0.0156

Saturn 49096-03-04 18:14 G 19653069.07 19653069.26 19653069.45 0.0262 0.0025

Mars 49096-04-18 07:55 G 19653113.72 19653113.83 19653113.95 0.1870 0.0156

Jupiter 49096-04-18 19:55 G 19653114.24 19653114.33 19653114.42 0.0520 0.0362

Saturn 49096-06-01 15:36 G 19653158.04 19653158.15 19653158.27 0.0263 0.0208

Venus 49096-06-06 15:36 G 19653163.02 19653163.15 19653163.28 0.3682 0.2202

Jupiter 49096-07-17 00:14 G 19653203.40 19653203.51 19653203.62 0.0518 0.0248

Uranus 49097-07-03 10:19 G 19653554.93 19653554.93 19653554.96 0.0140 0.0139

Uranus 49097-09-29 13:41 G 19653643.01 19653643.07 19653643.15 0.0140 0.0119

Uranus 49097-12-26 17:02 G 19653731.13 19653731.21 19653731.31 0.0140 0.0098

Uranus 49098-03-24 20:24 G 19653819.25 19653819.35 19653819.46 0.0141 0.0076

Uranus 49098-06-20 23:46 G 19653907.37 19653907.49 19653907.61 0.0141 0.0055

Uranus 49098-09-17 03:07 G 19653995.50 19653995.63 19653995.75 0.0141 0.0035

Uranus 49098-12-14 06:29 G 19654083.64 19654083.77 19654083.90 0.0141 0.0014

Uranus 49099-03-12 09:36 G 19654171.77 19654171.90 19654172.03 0.0141 0.0008

Venus 49099-03-13 16:34 G 19654173.09 19654173.19 19654173.29 0.3689 0.0370

Uranus 49099-06-08 12:58 G 19654259.91 19654260.04 19654260.17 0.0141 0.0029

Uranus 49099-09-04 16:05 G 19654348.06 19654348.17 19654348.30 0.0141 0.0050

Uranus 49099-12-01 19:26 G 19654436.20 19654436.31 19654436.43 0.0141 0.0071

Uranus 49100-02-27 22:48 G 19654524.35 19654524.45 19654524.55 0.0141 0.0092

Uranus 49100-05-27 02:10 G 19654612.51 19654612.59 19654612.67 0.0141 0.0114

Uranus 49100-08-23 05:17 G 19654700.69 19654700.72 19654700.76 0.0142 0.0135

Moon 49100-11-15 05:31 G 19654784.65 19654784.73 19654784.82 0.2660 0.1618

Earth 49100-11-15 06:14 G 19654784.67 19654784.76 19654784.85 0.2662 0.1578 *

Jupiter 49102-09-06 06:00 G 19655444.57 19655444.75 19655444.93 0.0507 0.0169

Venus 49104-09-27 07:41 G 19656196.73 19656196.82 19656196.90 0.3688 0.1857

Mars 49105-09-09 16:48 G 19656544.11 19656544.20 19656544.29 0.1863 0.1156

Jupiter 49108-02-07 00:43 G 19657424.51 19657424.53 19657424.55 0.0521 0.0513

Jupiter 49108-05-06 05:02 G 19657513.58 19657513.71 19657513.83 0.0518 0.0100

Saturn 49110-01-11 06:29 G 19658128.67 19658128.77 19658128.87 0.0301 0.0184

Saturn 49110-04-09 18:43 G 19658217.15 19658217.28 19658217.41 0.0300 0.0007

Saturn 49110-07-07 06:43 G 19658305.68 19658305.78 19658305.89 0.0300 0.0177

Moon 49113-11-17 23:02 G 19659535.35 19659535.46 19659535.56 0.2665 0.0477

Earth 49113-11-17 23:31 G 19659535.37 19659535.48 19659535.59 0.2661 0.0367 *

Jupiter 49114-06-25 01:12 G 19659754.36 19659754.55 19659754.74 0.0507 0.0065

Mars 49117-11-05 08:38 G 19660983.71 19660983.86 19660984.01 0.1659 0.0735

Jupiter 49120-02-23 09:50 G 19661823.79 19661823.91 19661824.04 0.0519 0.0047

Earth 49123-05-20 16:34 G 19663006.08 19663006.19 19663006.29 0.2671 0.2052

Moon 49123-05-20 18:14 G 19663006.15 19663006.26 19663006.38 0.2668 0.1867 *

Saturn 49125-04-25 19:55 G 19663712.23 19663712.33 19663712.46 0.0261 0.0206

Saturn 49125-07-23 17:31 G 19663801.03 19663801.23 19663801.42 0.0261 0.0026

Saturn 49125-10-20 14:53 G 19663889.96 19663890.12 19663890.27 0.0262 0.0156

Jupiter 49126-04-12 21:36 G 19664064.25 19664064.40 19664064.56 0.0507 0.0280

Mars 49126-05-28 23:02 G 19664110.40 19664110.46 19664110.51 0.1876 0.1629

Moon 49126-11-20 16:34 G 19664286.09 19664286.19 19664286.29 0.2666 0.0811

Earth 49126-11-20 16:48 G 19664286.09 19664286.20 19664286.30 0.2660 0.0839 *

Mars 49127-03-28 08:38 G 19664413.72 19664413.86 19664414.01 0.1664 0.0870

Jupiter 49131-12-12 14:10 G 19666133.98 19666134.09 19666134.21 0.0519 0.0204

Jupiter 49132-03-10 18:14 G 19666223.19 19666223.26 19666223.34 0.0517 0.0400

Neptune 49133-07-04 18:00 G 19666704.24 19666704.25 19666704.30 0.0089 0.0088

Neptune 49133-09-30 22:05 G 19666792.33 19666792.42 19666792.53 0.0089 0.0076

Moon 49133-11-13 17:17 G 19666836.19 19666836.22 19666836.24 0.2658 0.2563

Earth 49133-11-13 17:46 G 19666836.21 19666836.24 19666836.27 0.2662 0.2562 *

Neptune 49133-12-28 01:41 G 19666880.45 19666880.57 19666880.72 0.0089 0.0065

Neptune 49134-03-26 05:31 G 19666968.58 19666968.73 19666968.90 0.0089 0.0053

Neptune 49134-06-22 09:07 G 19667056.72 19667056.88 19667057.07 0.0089 0.0042

Neptune 49134-09-18 13:12 G 19667144.86 19667145.05 19667145.24 0.0089 0.0030

Neptune 49134-12-15 16:48 G 19667233.01 19667233.20 19667233.40 0.0089 0.0019

Neptune 49135-03-13 20:38 G 19667321.16 19667321.36 19667321.56 0.0089 0.0007

Neptune 49135-06-10 00:29 G 19667409.32 19667409.52 19667409.72 0.0089 0.0005

Neptune 49135-09-06 04:05 G 19667497.48 19667497.67 19667497.87 0.0089 0.0016

Mars 49135-10-19 07:55 G 19667540.72 19667540.83 19667540.94 0.1870 0.0316

Neptune 49135-12-03 07:55 G 19667585.64 19667585.83 19667586.02 0.0089 0.0028

Neptune 49136-02-29 11:31 G 19667673.81 19667673.98 19667674.17 0.0089 0.0040

Earth 49136-05-23 01:41 G 19667757.42 19667757.57 19667757.73 0.2672 0.0881

Moon 49136-05-23 02:38 G 19667757.46 19667757.61 19667757.77 0.2667 0.0941 *

Neptune 49136-05-27 15:22 G 19667761.98 19667762.14 19667762.31 0.0089 0.0051

Neptune 49136-08-23 18:58 G 19667850.16 19667850.29 19667850.44 0.0089 0.0063

Neptune 49136-11-19 23:02 G 19667938.35 19667938.46 19667938.57 0.0089 0.0074

Neptune 49137-02-16 02:24 G 19668026.57 19668026.60 19668026.67 0.0089 0.0086

Jupiter 49138-01-29 18:00 G 19668374.22 19668374.25 19668374.30 0.0506 0.0493

Uranus 49138-02-01 09:36 G 19668376.81 19668376.90 19668377.03 0.0138 0.0116

Jupiter 49138-04-30 08:10 G 19668464.72 19668464.84 19668464.96 0.0509 0.0396

Uranus 49138-04-30 17:46 G 19668465.10 19668465.24 19668465.41 0.0138 0.0086

Uranus 49138-07-28 01:55 G 19668553.41 19668553.58 19668553.77 0.0138 0.0056

Uranus 49138-10-24 10:05 G 19668641.72 19668641.92 19668642.11 0.0137 0.0026

Uranus 49139-01-20 18:00 G 19668730.05 19668730.25 19668730.45 0.0137 0.0004

Uranus 49139-04-19 01:55 G 19668818.39 19668818.58 19668818.77 0.0137 0.0034

Saturn 49139-05-31 07:55 G 19668860.76 19668860.83 19668860.91 0.0301 0.0243

Uranus 49139-07-16 09:50 G 19668906.74 19668906.91 19668907.09 0.0137 0.0063

Saturn 49139-08-27 20:24 G 19668949.22 19668949.35 19668949.47 0.0301 0.0060

Uranus 49139-10-12 17:31 G 19668995.10 19668995.23 19668995.39 0.0137 0.0093

Earth 49139-11-23 09:50 G 19669036.84 19669036.91 19669036.98 0.2659 0.2023

Moon 49139-11-23 10:05 G 19669036.86 19669036.92 19669036.99 0.2665 0.2115 *

Saturn 49139-11-24 08:38 G 19669037.74 19669037.86 19669037.97 0.0300 0.0121

Uranus 49140-01-09 01:41 G 19669083.49 19669083.57 19669083.66 0.0137 0.0122

Saturn 49140-02-20 20:38 G 19669126.36 19669126.36 19669126.37 0.0300 0.0299

Jupiter 49143-09-30 18:43 G 19670444.19 19670444.28 19670444.37 0.0520 0.0359

Jupiter 49143-12-28 22:48 G 19670533.34 19670533.45 19670533.56 0.0518 0.0249

Mars 49145-03-10 16:48 G 19670971.11 19670971.20 19670971.30 0.1863 0.0990

Moon 49146-11-16 10:19 G 19671586.84 19671586.93 19671587.02 0.2661 0.1485

Earth 49146-11-16 11:02 G 19671586.87 19671586.96 19671587.05 0.2661 0.1342 *

Jupiter 49150-02-16 04:05 G 19672774.49 19672774.67 19672774.85 0.0508 0.0171

Venus 49150-04-04 22:48 G 19672822.37 19672822.45 19672822.54 0.3689 0.1763

Saturn 49154-09-12 19:41 G 19674444.28 19674444.32 19674444.39 0.0261 0.0251

Saturn 49154-12-10 17:02 G 19674533.03 19674533.21 19674533.40 0.0262 0.0072

Saturn 49155-03-09 14:24 G 19674621.93 19674622.10 19674622.28 0.0262 0.0111

Jupiter 49155-07-19 23:02 G 19674754.45 19674754.46 19674754.47 0.0521 0.0518

Jupiter 49155-10-17 03:22 G 19674843.52 19674843.64 19674843.76 0.0519 0.0095

Venus 49155-10-19 13:55 G 19674845.98 19674846.08 19674846.18 0.3688 0.0459

Mars 49157-05-06 09:07 G 19675410.74 19675410.88 19675411.02 0.1659 0.0950

Moon 49159-11-19 03:50 G 19676337.55 19676337.66 19676337.76 0.2665 0.0193

Earth 49159-11-19 04:19 G 19676337.57 19676337.68 19676337.79 0.2660 0.0141 *

Venus 49161-05-04 04:48 G 19676869.64 19676869.70 19676869.77 0.3688 0.2674

Jupiter 49161-12-05 00:00 G 19677084.31 19677084.50 19677084.68 0.0507 0.0053

Mars 49165-11-26 23:02 G 19678537.42 19678537.46 19678537.49 0.1875 0.1788

Mars 49166-09-26 09:22 G 19678840.73 19678840.89 19678841.04 0.1664 0.0640

Jupiter 49167-08-05 08:10 G 19679153.72 19679153.84 19679153.97 0.0519 0.0053

Saturn 49168-10-17 10:34 G 19679592.91 19679592.94 19679592.98 0.0301 0.0287

Saturn 49169-01-13 23:02 G 19679681.34 19679681.46 19679681.58 0.0301 0.0105

Saturn 49169-04-12 11:17 G 19679769.84 19679769.97 19679770.09 0.0300 0.0077

Earth 49169-05-20 23:17 G 19679808.34 19679808.47 19679808.60 0.2671 0.1536

Moon 49169-05-21 00:58 G 19679808.40 19679808.54 19679808.69 0.2668 0.1290 *

Saturn 49169-07-09 23:17 G 19679858.41 19679858.47 19679858.54 0.0300 0.0256

Earth 49172-11-20 21:22 G 19681088.29 19681088.39 19681088.49 0.2659 0.1068

Moon 49172-11-20 21:22 G 19681088.30 19681088.39 19681088.49 0.2666 0.1061 *

Jupiter 49173-09-22 18:58 G 19681394.14 19681394.29 19681394.45 0.0507 0.0288

Mars 49175-04-19 07:41 G 19681967.71 19681967.82 19681967.94 0.1870 0.0468

Pluto 49176-09-24 22:34 G 19682492.44 19682492.44 19682492.45 0.0068 0.0068

Pluto 49176-12-21 23:17 G 19682580.40 19682580.47 19682580.54 0.0068 0.0057

Pluto 49177-03-19 23:31 G 19682668.40 19682668.48 19682668.59 0.0068 0.0047

Pluto 49177-06-16 00:14 G 19682756.40 19682756.51 19682756.63 0.0068 0.0036

Pluto 49177-09-12 00:58 G 19682844.42 19682844.54 19682844.67 0.0068 0.0025

Pluto 49177-12-09 01:26 G 19682932.43 19682932.56 19682932.70 0.0068 0.0015

Pluto 49178-03-07 02:10 G 19683020.45 19683020.59 19683020.72 0.0068 0.0004

Pluto 49178-06-03 02:38 G 19683108.48 19683108.61 19683108.74 0.0068 0.0007

Pluto 49178-08-30 03:07 G 19683196.50 19683196.63 19683196.76 0.0068 0.0018

Pluto 49178-11-26 03:36 G 19683284.54 19683284.65 19683284.78 0.0069 0.0029

Pluto 49179-02-22 04:05 G 19683372.57 19683372.67 19683372.79 0.0069 0.0040

Pluto 49179-05-21 04:34 G 19683460.62 19683460.69 19683460.80 0.0069 0.0051

Jupiter 49179-05-24 13:12 G 19683463.93 19683464.05 19683464.16 0.0519 0.0197

Pluto 49179-08-17 05:31 G 19683548.67 19683548.73 19683548.79 0.0069 0.0061

Jupiter 49179-08-21 17:02 G 19683553.14 19683553.21 19683553.29 0.0517 0.0407

Moon 49179-11-14 22:05 G 19683638.38 19683638.42 19683638.46 0.2658 0.2443

Earth 49179-11-14 22:34 G 19683638.39 19683638.44 19683638.49 0.2662 0.2324 *

Uranus 49181-07-24 17:31 G 19684256.20 19684256.23 19684256.27 0.0140 0.0135

Uranus 49181-10-20 20:53 G 19684344.30 19684344.37 19684344.45 0.0140 0.0114

Uranus 49182-01-17 00:14 G 19684432.41 19684432.51 19684432.61 0.0140 0.0093

Uranus 49182-04-15 03:22 G 19684520.54 19684520.64 19684520.76 0.0140 0.0073

Earth 49182-05-24 08:38 G 19684559.72 19684559.86 19684560.00 0.2672 0.1408

Moon 49182-05-24 09:07 G 19684559.75 19684559.88 19684560.02 0.2666 0.1486 *

Uranus 49182-07-12 06:43 G 19684608.66 19684608.78 19684608.90 0.0141 0.0052

Uranus 49182-10-08 10:05 G 19684696.79 19684696.92 19684697.05 0.0141 0.0031

Uranus 49183-01-04 13:26 G 19684784.93 19684785.06 19684785.19 0.0141 0.0011

Uranus 49183-04-02 16:34 G 19684873.06 19684873.19 19684873.32 0.0141 0.0012

Uranus 49183-06-29 19:55 G 19684961.20 19684961.33 19684961.46 0.0141 0.0032

Uranus 49183-09-25 23:17 G 19685049.35 19685049.47 19685049.59 0.0141 0.0054

Uranus 49183-12-23 02:24 G 19685137.49 19685137.60 19685137.71 0.0141 0.0075

Uranus 49184-03-20 05:31 G 19685225.65 19685225.73 19685225.84 0.0141 0.0097

Saturn 49184-04-28 16:05 G 19685265.00 19685265.17 19685265.34 0.0261 0.0123

Uranus 49184-06-16 08:53 G 19685313.81 19685313.87 19685313.95 0.0141 0.0118

Saturn 49184-07-26 13:26 G 19685353.87 19685354.06 19685354.25 0.0261 0.0057

Mars 49184-09-08 16:48 G 19685398.10 19685398.20 19685398.31 0.1863 0.0826

Uranus 49184-09-12 12:14 G 19685402.00 19685402.01 19685402.04 0.0142 0.0139

Saturn 49184-10-23 10:48 G 19685442.87 19685442.95 19685443.02 0.0262 0.0239

Jupiter 49185-07-11 15:36 G 19685704.13 19685704.15 19685704.18 0.0506 0.0499

Jupiter 49185-10-10 05:46 G 19685794.62 19685794.74 19685794.86 0.0509 0.0390

Earth 49185-11-23 14:24 G 19685839.05 19685839.10 19685839.16 0.2658 0.2254

Moon 49185-11-23 14:53 G 19685839.07 19685839.12 19685839.17 0.2664 0.2296 *

Jupiter 49191-03-12 17:31 G 19687774.14 19687774.23 19687774.32 0.0520 0.0352

Jupiter 49191-06-09 21:36 G 19687863.30 19687863.40 19687863.51 0.0517 0.0255

Moon 49192-11-16 15:07 G 19688389.03 19688389.13 19688389.23 0.2663 0.1134

Earth 49192-11-16 15:50 G 19688389.06 19688389.16 19688389.26 0.2661 0.1107 *

Mars 49196-11-04 09:50 G 19689837.79 19689837.91 19689838.03 0.1659 0.1185

Jupiter 49197-07-29 02:10 G 19690104.41 19690104.59 19690104.77 0.0508 0.0174

Saturn 49198-06-03 00:14 G 19690413.40 19690413.51 19690413.61 0.0301 0.0170

Saturn 49198-08-30 12:29 G 19690501.89 19690502.02 19690502.15 0.0301 0.0012

Saturn 49198-11-27 00:43 G 19690590.43 19690590.53 19690590.63 0.0300 0.0193

Venus 49201-04-26 05:02 G 19691471.66 19691471.71 19691471.76 0.3689 0.3169

Jupiter 49202-12-29 21:50 G 19692084.39 19692084.41 19692084.44 0.0520 0.0509

Jupiter 49203-03-29 02:24 G 19692173.47 19692173.60 19692173.72 0.0518 0.0104

Venus 49204-02-03 09:07 G 19692484.72 19692484.88 19692485.04 0.3682 0.0903

Moon 49205-11-19 08:38 G 19693139.75 19693139.86 19693139.96 0.2665 0.0060

Earth 49205-11-19 09:07 G 19693139.77 19693139.88 19693139.98 0.2660 0.0139 *

Mars 49206-03-27 10:05 G 19693267.75 19693267.92 19693268.08 0.1664 0.0410

Venus 49206-11-09 20:10 G 19693495.24 19693495.34 19693495.44 0.3688 0.0950

Jupiter 49209-05-16 22:19 G 19694414.25 19694414.43 19694414.62 0.0507 0.0047

Venus 49212-05-25 11:02 G 19695518.87 19695518.96 19695519.06 0.3688 0.1267

Saturn 49213-09-15 15:07 G 19695996.99 19695997.13 19695997.28 0.0261 0.0174

Neptune 49213-11-01 04:48 G 19696043.69 19696043.70 19696043.74 0.0089 0.0087

Saturn 49213-12-13 12:29 G 19696085.83 19696086.02 19696086.21 0.0261 0.0006

Neptune 49214-01-28 06:14 G 19696131.71 19696131.76 19696131.82 0.0089 0.0079

Saturn 49214-03-12 09:36 G 19696174.78 19696174.90 19696175.04 0.0262 0.0188

Neptune 49214-04-26 07:41 G 19696219.74 19696219.82 19696219.90 0.0089 0.0071

Neptune 49214-07-23 08:38 G 19696307.78 19696307.86 19696307.96 0.0089 0.0064

Mars 49214-10-18 07:41 G 19696394.72 19696394.82 19696394.93 0.1870 0.0636

Neptune 49214-10-19 10:05 G 19696395.83 19696395.92 19696396.03 0.0089 0.0056

Jupiter 49215-01-15 06:43 G 19696483.66 19696483.78 19696483.91 0.0519 0.0052

Neptune 49215-01-15 11:31 G 19696483.87 19696483.98 19696484.09 0.0089 0.0048 *

Neptune 49215-04-13 12:43 G 19696571.92 19696572.03 19696572.15 0.0089 0.0040

Earth 49215-05-22 06:14 G 19696610.61 19696610.76 19696610.91 0.2671 0.1003

Moon 49215-05-22 07:55 G 19696610.67 19696610.83 19696610.98 0.2668 0.0882 *

Neptune 49215-07-10 13:55 G 19696659.97 19696660.08 19696660.21 0.0089 0.0033

Neptune 49215-10-06 15:22 G 19696748.01 19696748.14 19696748.26 0.0089 0.0025

Neptune 49216-01-02 16:34 G 19696836.06 19696836.19 19696836.32 0.0089 0.0017

Neptune 49216-03-30 17:46 G 19696924.11 19696924.24 19696924.38 0.0089 0.0010

Neptune 49216-06-26 19:12 G 19697012.17 19697012.30 19697012.43 0.0089 0.0002

Neptune 49216-09-22 20:24 G 19697100.22 19697100.35 19697100.48 0.0089 0.0006

Neptune 49216-12-19 21:36 G 19697188.27 19697188.40 19697188.53 0.0089 0.0014

Neptune 49217-03-17 22:48 G 19697276.33 19697276.45 19697276.58 0.0089 0.0021

Neptune 49217-06-14 00:14 G 19697364.38 19697364.51 19697364.63 0.0089 0.0029

Neptune 49217-09-10 01:12 G 19697452.44 19697452.55 19697452.68 0.0089 0.0037

Neptune 49217-12-07 02:38 G 19697540.50 19697540.61 19697540.73 0.0089 0.0044

Venus 49217-12-09 02:10 G 19697542.56 19697542.59 19697542.62 0.3688 0.3495

Neptune 49218-03-05 03:50 G 19697628.56 19697628.66 19697628.77 0.0089 0.0052

Neptune 49218-06-01 05:02 G 19697716.62 19697716.71 19697716.81 0.0089 0.0060

Neptune 49218-08-28 06:29 G 19697804.69 19697804.77 19697804.85 0.0089 0.0067

Moon 49218-11-22 02:24 G 19697890.50 19697890.60 19697890.69 0.2666 0.1359

Earth 49218-11-22 02:10 G 19697890.50 19697890.59 19697890.68 0.2659 0.1295 *

Neptune 49218-11-24 07:26 G 19697892.75 19697892.81 19697892.89 0.0089 0.0075

Neptune 49219-02-20 08:38 G 19697980.83 19697980.86 19697980.92 0.0089 0.0083

Jupiter 49221-03-04 18:29 G 19698724.11 19698724.27 19698724.43 0.0507 0.0266

Uranus 49221-11-25 09:36 G 19698989.88 19698989.90 19698989.94 0.0138 0.0136

Uranus 49222-02-21 17:46 G 19699078.12 19699078.24 19699078.37 0.0138 0.0106

Uranus 49222-05-21 01:41 G 19699166.41 19699166.57 19699166.74 0.0138 0.0076

Uranus 49222-08-17 09:50 G 19699254.72 19699254.91 19699255.10 0.0138 0.0046

Uranus 49222-11-13 17:46 G 19699343.05 19699343.24 19699343.44 0.0138 0.0016

Uranus 49223-02-10 01:41 G 19699431.38 19699431.57 19699431.77 0.0137 0.0014

Uranus 49223-05-09 09:36 G 19699519.72 19699519.90 19699520.09 0.0137 0.0044

Uranus 49223-08-05 17:31 G 19699608.07 19699608.23 19699608.40 0.0137 0.0073

Uranus 49223-11-02 01:41 G 19699696.44 19699696.57 19699696.70 0.0137 0.0103

Uranus 49224-01-29 09:07 G 19699784.85 19699784.88 19699784.95 0.0137 0.0133

Mars 49224-03-09 16:48 G 19699825.09 19699825.20 19699825.30 0.1863 0.0676

Moon 49225-11-15 02:38 G 19700440.55 19700440.61 19700440.68 0.2659 0.2119

Earth 49225-11-15 03:07 G 19700440.57 19700440.63 19700440.70 0.2662 0.2093 *

Jupiter 49226-11-03 11:46 G 19700793.87 19700793.99 19700794.10 0.0519 0.0198

Jupiter 49227-01-31 15:50 G 19700883.08 19700883.16 19700883.23 0.0517 0.0406

Saturn 49227-10-21 02:10 G 19701145.51 19701145.59 19701145.68 0.0301 0.0222

Saturn 49228-01-17 14:38 G 19701233.98 19701234.11 19701234.24 0.0301 0.0039

Saturn 49228-04-15 02:53 G 19701322.51 19701322.62 19701322.73 0.0300 0.0142

Earth 49228-05-24 15:36 G 19701362.04 19701362.15 19701362.26 0.2672 0.1940

Moon 49228-05-24 16:05 G 19701362.06 19701362.17 19701362.28 0.2665 0.2000 *

Earth 49231-11-24 19:12 G 19702641.27 19702641.30 19702641.34 0.2658 0.2482

Moon 49231-11-24 19:41 G 19702641.30 19702641.32 19702641.35 0.2662 0.2548 *

Jupiter 49232-12-21 13:26 G 19703034.04 19703034.06 19703034.09 0.0506 0.0500

Jupiter 49233-03-22 03:22 G 19703124.53 19703124.64 19703124.77 0.0509 0.0388

Mars 49236-05-05 10:34 G 19704264.86 19704264.94 19704265.03 0.1659 0.1425

Jupiter 49238-08-22 16:34 G 19705104.10 19705104.19 19705104.29 0.0520 0.0342

Moon 49238-11-17 19:55 G 19705191.23 19705191.33 19705191.43 0.2664 0.1021

Earth 49238-11-17 20:38 G 19705191.25 19705191.36 19705191.46 0.2661 0.0877 *

Jupiter 49238-11-19 20:53 G 19705193.26 19705193.37 19705193.48 0.0517 0.0266

Saturn 49243-02-02 13:55 G 19706728.99 19706729.08 19706729.18 0.0260 0.0227

Saturn 49243-05-02 11:02 G 19706817.78 19706817.96 19706818.15 0.0261 0.0049

Saturn 49243-07-30 08:10 G 19706906.68 19706906.84 19706907.02 0.0261 0.0132

Jupiter 49245-01-08 00:00 G 19707434.33 19707434.50 19707434.68 0.0508 0.0173

Mars 49245-09-25 10:48 G 19707694.78 19707694.95 19707695.12 0.1664 0.0170

Jupiter 49250-06-10 21:07 G 19709414.35 19709414.38 19709414.42 0.0520 0.0496

Jupiter 49250-09-08 01:26 G 19709503.44 19709503.56 19709503.68 0.0518 0.0114

Moon 49251-11-20 13:26 G 19709941.95 19709942.06 19709942.17 0.2666 0.0350

Earth 49251-11-20 13:41 G 19709941.97 19709942.07 19709942.18 0.2660 0.0346 *

Mars 49254-04-18 07:41 G 19710821.72 19710821.82 19710821.93 0.1869 0.0797

Jupiter 49256-10-26 20:53 G 19711744.18 19711744.37 19711744.55 0.0508 0.0040

Saturn 49257-03-09 02:53 G 19711877.60 19711877.62 19711877.66 0.0302 0.0294

Saturn 49257-06-05 15:22 G 19711966.03 19711966.14 19711966.26 0.0301 0.0110

Saturn 49257-09-02 03:50 G 19712054.53 19712054.66 19712054.78 0.0301 0.0073

Saturn 49257-11-29 15:50 G 19712143.10 19712143.16 19712143.23 0.0300 0.0253

Venus 49257-12-01 02:24 G 19712144.52 19712144.60 19712144.68 0.3689 0.2350

Venus 49260-09-09 12:14 G 19713157.87 19713158.01 19713158.14 0.3682 0.2045

Earth 49261-05-22 13:12 G 19713412.89 19713413.05 19713413.21 0.2671 0.0478

Moon 49261-05-22 14:24 G 19713412.94 19713413.10 19713413.27 0.2667 0.0248 *

Jupiter 49262-06-27 06:00 G 19713813.63 19713813.75 19713813.88 0.0519 0.0038

Venus 49263-06-16 17:31 G 19714168.13 19714168.23 19714168.33 0.3688 0.0203

Pluto 49263-07-17 06:58 G 19714198.71 19714198.79 19714198.91 0.0076 0.0064

Mars 49263-09-08 16:48 G 19714252.09 19714252.20 19714252.31 0.1863 0.0523

Pluto 49263-10-13 09:36 G 19714286.76 19714286.90 19714287.07 0.0076 0.0043

Pluto 49264-01-09 12:14 G 19714374.83 19714375.01 19714375.19 0.0076 0.0022

Pluto 49264-04-06 14:38 G 19714462.92 19714463.11 19714463.30 0.0076 0.0002

Pluto 49264-07-03 17:02 G 19714551.03 19714551.21 19714551.40 0.0076 0.0019

Pluto 49264-09-29 19:12 G 19714639.15 19714639.30 19714639.47 0.0075 0.0040

Earth 49264-11-22 06:58 G 19714692.70 19714692.79 19714692.87 0.2659 0.1529

Moon 49264-11-22 06:58 G 19714692.71 19714692.79 19714692.88 0.2666 0.1513 *

Pluto 49264-12-26 21:36 G 19714727.29 19714727.40 19714727.52 0.0075 0.0060

Uranus 49265-08-14 00:58 G 19714957.50 19714957.54 19714957.59 0.0140 0.0129

Uranus 49265-11-10 04:19 G 19715045.60 19715045.68 19715045.76 0.0140 0.0108

Uranus 49266-02-06 07:26 G 19715133.72 19715133.81 19715133.92 0.0140 0.0088

Uranus 49266-05-05 10:48 G 19715221.84 19715221.95 19715222.07 0.0140 0.0067

Uranus 49266-08-01 14:10 G 19715309.97 19715310.09 19715310.21 0.0141 0.0046

Uranus 49266-10-28 17:17 G 19715398.10 19715398.22 19715398.35 0.0141 0.0026

Uranus 49267-01-24 20:38 G 19715486.23 19715486.36 19715486.49 0.0141 0.0005

Uranus 49267-04-23 00:00 G 19715574.37 19715574.50 19715574.63 0.0141 0.0017

Uranus 49267-07-20 03:22 G 19715662.51 19715662.64 19715662.76 0.0141 0.0038

Uranus 49267-10-16 06:29 G 19715750.66 19715750.77 19715750.89 0.0141 0.0059

Uranus 49268-01-12 09:50 G 19715838.81 19715838.91 19715839.02 0.0141 0.0080

Uranus 49268-04-09 13:12 G 19715926.96 19715927.05 19715927.14 0.0141 0.0102

Uranus 49268-07-06 16:34 G 19716015.13 19716015.19 19716015.25 0.0141 0.0123

Jupiter 49268-08-14 17:17 G 19716054.06 19716054.22 19716054.38 0.0507 0.0254

Venus 49268-12-30 08:24 G 19716191.77 19716191.85 19716191.93 0.3688 0.2086

Moon 49271-11-16 07:26 G 19717242.74 19717242.81 19717242.88 0.2660 0.1952

Earth 49271-11-16 07:55 G 19717242.76 19717242.83 19717242.91 0.2662 0.1855 *

Saturn 49272-09-18 09:36 G 19717549.73 19717549.90 19717550.08 0.0261 0.0105

Saturn 49272-12-16 06:58 G 19717638.60 19717638.79 19717638.97 0.0261 0.0076

Mars 49273-01-29 01:55 G 19717682.55 19717682.58 19717682.60 0.1857 0.1793

Saturn 49273-03-15 04:05 G 19717727.65 19717727.67 19717727.71 0.0262 0.0258

Jupiter 49274-04-15 10:34 G 19718123.82 19718123.94 19718124.05 0.0519 0.0193

Earth 49274-05-25 22:34 G 19718164.39 19718164.44 19718164.50 0.2673 0.2485

Moon 49274-05-25 23:02 G 19718164.40 19718164.46 19718164.52 0.2666 0.2471 *

Jupiter 49274-07-13 14:38 G 19718213.03 19718213.11 19718213.18 0.0517 0.0411

Mars 49275-11-04 11:17 G 19718691.95 19718691.97 19718691.98 0.1659 0.1649

Jupiter 49280-06-02 13:26 G 19720364.00 19720364.06 19720364.13 0.0506 0.0471

Jupiter 49280-09-01 03:22 G 19720454.54 19720454.64 19720454.75 0.0508 0.0416

Moon 49284-11-18 00:43 G 19721993.42 19721993.53 19721993.63 0.2663 0.0676

Earth 49284-11-18 01:12 G 19721993.45 19721993.55 19721993.66 0.2661 0.0645 *

Mars 49285-03-26 11:17 G 19722121.80 19722121.97 19722122.14 0.1664 0.0063

Jupiter 49286-02-01 15:22 G 19722434.05 19722434.14 19722434.24 0.0520 0.0339

Jupiter 49286-05-01 19:41 G 19722523.21 19722523.32 19722523.42 0.0518 0.0270

Saturn 49286-10-23 17:17 G 19722698.11 19722698.22 19722698.33 0.0301 0.0165

Saturn 49287-01-20 05:31 G 19722786.61 19722786.73 19722786.86 0.0301 0.0019

Saturn 49287-04-18 17:46 G 19722875.15 19722875.24 19722875.34 0.0300 0.0198

Jupiter 49292-06-19 22:05 G 19724764.25 19724764.42 19724764.60 0.0508 0.0176

Mars 49293-10-17 07:41 G 19725248.72 19725248.82 19725248.92 0.1870 0.0936

Moon 49294-05-20 12:58 G 19725463.99 19725464.04 19725464.09 0.2669 0.2525

Mars 49294-08-16 11:46 G 19725551.92 19725551.99 19725552.05 0.1670 0.1536

Moon 49297-11-20 18:14 G 19726744.16 19726744.26 19726744.37 0.2667 0.0497

Earth 49297-11-20 18:29 G 19726744.16 19726744.27 19726744.38 0.2660 0.0563 *

Jupiter 49297-11-20 20:24 G 19726744.31 19726744.35 19726744.40 0.0520 0.0482 *

Jupiter 49298-02-18 00:43 G 19726833.41 19726833.53 19726833.65 0.0518 0.0130

Neptune 49298-03-31 15:22 G 19726875.11 19726875.14 19726875.20 0.0088 0.0086

Neptune 49298-06-27 18:58 G 19726963.21 19726963.29 19726963.42 0.0089 0.0075

Neptune 49298-09-23 23:02 G 19727051.33 19727051.46 19727051.60 0.0089 0.0063

Neptune 49298-12-21 02:38 G 19727139.46 19727139.61 19727139.78 0.0089 0.0051

Neptune 49299-03-19 06:29 G 19727227.60 19727227.77 19727227.95 0.0089 0.0040

Neptune 49299-06-15 10:05 G 19727315.74 19727315.92 19727316.12 0.0089 0.0029

Neptune 49299-09-11 14:10 G 19727403.89 19727404.09 19727404.28 0.0089 0.0017

Neptune 49299-12-08 17:46 G 19727492.05 19727492.24 19727492.44 0.0089 0.0006

Neptune 49300-03-06 21:36 G 19727580.20 19727580.40 19727580.60 0.0089 0.0006

Neptune 49300-06-03 01:12 G 19727668.36 19727668.55 19727668.75 0.0089 0.0018

Neptune 49300-08-30 04:48 G 19727756.53 19727756.70 19727756.90 0.0089 0.0030

Neptune 49300-11-26 08:38 G 19727844.69 19727844.86 19727845.05 0.0089 0.0041

Neptune 49301-02-22 12:14 G 19727932.87 19727933.01 19727933.19 0.0089 0.0053

Neptune 49301-05-21 16:19 G 19728021.05 19728021.18 19728021.32 0.0089 0.0064

Neptune 49301-08-17 19:41 G 19728109.24 19728109.32 19728109.44 0.0089 0.0076

Neptune 49301-11-13 23:17 G 19728197.47 19728197.47 19728197.53 0.0089 0.0088

Saturn 49302-02-06 08:10 G 19728281.69 19728281.84 19728282.00 0.0260 0.0160

Saturn 49302-05-06 05:17 G 19728370.53 19728370.72 19728370.92 0.0261 0.0020

Saturn 49302-08-03 02:24 G 19728459.49 19728459.60 19728459.73 0.0261 0.0200

Mars 49303-03-10 16:48 G 19728679.09 19728679.20 19728679.31 0.1863 0.0344

Jupiter 49304-04-08 18:58 G 19729074.10 19729074.29 19729074.47 0.0508 0.0038

Uranus 49305-12-16 16:48 G 19729691.14 19729691.20 19729691.28 0.0138 0.0128

Uranus 49306-03-15 00:58 G 19729779.41 19729779.54 19729779.68 0.0138 0.0098

Uranus 49306-06-11 09:07 G 19729867.71 19729867.88 19729868.05 0.0138 0.0068

Uranus 49306-09-07 17:02 G 19729956.02 19729956.21 19729956.40 0.0138 0.0038

Uranus 49306-12-05 01:12 G 19730044.35 19730044.55 19730044.74 0.0138 0.0008

Uranus 49307-03-03 09:07 G 19730132.68 19730132.88 19730133.07 0.0137 0.0022

Earth 49307-05-24 20:10 G 19730215.18 19730215.34 19730215.51 0.2671 0.0095

Moon 49307-05-24 21:22 G 19730215.22 19730215.39 19730215.55 0.2665 0.0083 *

Uranus 49307-05-30 17:02 G 19730221.03 19730221.21 19730221.39 0.0137 0.0051

Uranus 49307-08-27 00:43 G 19730309.38 19730309.53 19730309.70 0.0137 0.0081

Uranus 49307-11-23 08:53 G 19730397.76 19730397.87 19730397.99 0.0137 0.0111

Jupiter 49309-12-08 05:17 G 19731143.60 19731143.72 19731143.85 0.0518 0.0024

Earth 49310-11-24 11:31 G 19731494.91 19731494.98 19731495.06 0.2659 0.1759

Moon 49310-11-24 12:00 G 19731494.92 19731495.00 19731495.07 0.2665 0.1850 *

Mars 49312-07-31 01:41 G 19732109.52 19732109.57 19732109.62 0.1857 0.1640

Venus 49314-07-08 23:46 G 19732817.40 19732817.49 19732817.58 0.3689 0.1537

Jupiter 49316-01-26 15:50 G 19733384.00 19733384.16 19733384.32 0.0507 0.0245

Saturn 49316-03-12 17:31 G 19733430.16 19733430.23 19733430.31 0.0302 0.0244

Saturn 49316-06-09 06:00 G 19733518.62 19733518.75 19733518.88 0.0301 0.0060

Saturn 49316-09-05 18:14 G 19733607.14 19733607.26 19733607.38 0.0301 0.0122

Moon 49317-11-17 12:00 G 19734044.92 19734045.00 19734045.09 0.2662 0.1716

Earth 49317-11-17 12:43 G 19734044.95 19734045.03 19734045.12 0.2662 0.1618 *

Venus 49320-01-22 14:38 G 19734841.01 19734841.11 19734841.21 0.3688 0.0681

Jupiter 49321-09-26 09:50 G 19735453.80 19735453.91 19735454.03 0.0519 0.0174

Jupiter 49321-12-24 13:55 G 19735543.01 19735543.08 19735543.15 0.0517 0.0429

Mars 49324-09-25 12:00 G 19736548.84 19736549.00 19736549.17 0.1664 0.0294

Venus 49325-08-07 05:46 G 19736864.68 19736864.74 19736864.80 0.3688 0.2909

Jupiter 49327-11-14 12:29 G 19737693.95 19737694.02 19737694.10 0.0506 0.0456

Jupiter 49328-02-13 02:24 G 19737784.51 19737784.60 19737784.70 0.0509 0.0433

Moon 49330-11-20 05:31 G 19738795.62 19738795.73 19738795.83 0.2664 0.0518

Earth 49330-11-20 06:00 G 19738795.65 19738795.75 19738795.86 0.2661 0.0409 *

Saturn 49331-06-26 06:00 G 19739013.66 19739013.75 19739013.87 0.0261 0.0220

Saturn 49331-09-23 03:22 G 19739102.45 19739102.64 19739102.83 0.0261 0.0041

Saturn 49331-12-21 00:29 G 19739191.36 19739191.52 19739191.69 0.0261 0.0140

Mars 49333-04-18 07:41 G 19739675.73 19739675.82 19739675.91 0.1870 0.1107

Jupiter 49333-07-15 14:24 G 19739764.00 19739764.10 19739764.19 0.0520 0.0330

Jupiter 49333-10-12 18:29 G 19739853.17 19739853.27 19739853.38 0.0518 0.0278

Mars 49334-02-15 12:00 G 19739978.91 19739979.00 19739979.11 0.1670 0.1324

Jupiter 49339-12-01 22:34 G 19742094.27 19742094.44 19742094.61 0.0508 0.0211

Earth 49340-05-21 18:00 G 19742266.17 19742266.25 19742266.33 0.2670 0.2329

Moon 49340-05-21 19:41 G 19742266.23 19742266.32 19742266.41 0.2668 0.2217 *

Mars 49342-09-08 16:34 G 19743106.08 19743106.19 19743106.30 0.1863 0.0204

Moon 49343-11-22 23:02 G 19743546.36 19743546.46 19743546.56 0.2667 0.0841

Earth 49343-11-22 23:17 G 19743546.36 19743546.47 19743546.57 0.2660 0.0798 *

Jupiter 49345-05-03 19:12 G 19744074.26 19744074.30 19744074.35 0.0521 0.0476

Jupiter 49345-07-31 23:31 G 19744163.36 19744163.48 19744163.61 0.0518 0.0137

Saturn 49345-10-27 07:41 G 19744250.70 19744250.82 19744250.94 0.0301 0.0119

Saturn 49346-01-23 19:55 G 19744339.20 19744339.33 19744339.45 0.0301 0.0064

Saturn 49346-04-22 08:10 G 19744427.77 19744427.84 19744427.91 0.0300 0.0244

Uranus 49349-09-04 08:24 G 19745658.79 19745658.85 19745658.91 0.0140 0.0123

Uranus 49349-12-01 11:46 G 19745746.90 19745746.99 19745747.07 0.0140 0.0103

Uranus 49350-02-27 14:53 G 19745835.02 19745835.12 19745835.23 0.0140 0.0082

Uranus 49350-05-26 18:00 G 19745923.14 19745923.25 19745923.38 0.0140 0.0062

Uranus 49350-08-22 21:22 G 19746011.27 19746011.39 19746011.52 0.0141 0.0041

Earth 49350-11-16 00:14 G 19746096.49 19746096.51 19746096.53 0.2663 0.2599

Uranus 49350-11-19 00:43 G 19746099.40 19746099.53 19746099.66 0.0141 0.0019

Uranus 49351-02-15 04:05 G 19746187.54 19746187.67 19746187.80 0.0141 0.0002

Uranus 49351-05-14 07:12 G 19746275.68 19746275.80 19746275.93 0.0141 0.0023

Uranus 49351-08-10 10:34 G 19746363.82 19746363.94 19746364.07 0.0141 0.0044

Jupiter 49351-09-19 17:17 G 19746404.04 19746404.22 19746404.41 0.0508 0.0031

Uranus 49351-11-06 13:55 G 19746451.96 19746452.08 19746452.20 0.0141 0.0065

Mars 49352-01-30 01:41 G 19746536.50 19746536.57 19746536.64 0.1857 0.1479

Uranus 49352-02-02 17:02 G 19746540.12 19746540.21 19746540.32 0.0141 0.0086

Uranus 49352-04-30 20:24 G 19746628.27 19746628.35 19746628.44 0.0141 0.0107

Uranus 49352-07-27 23:46 G 19746716.44 19746716.49 19746716.54 0.0141 0.0128

Earth 49353-05-25 03:07 G 19747017.47 19747017.63 19747017.79 0.2672 0.0577

Moon 49353-05-25 04:05 G 19747017.51 19747017.67 19747017.82 0.2665 0.0794 *

Earth 49356-11-24 16:19 G 19748297.11 19748297.18 19748297.25 0.2659 0.1985

Moon 49356-11-24 16:48 G 19748297.13 19748297.20 19748297.27 0.2664 0.1988 *

Jupiter 49357-05-20 04:48 G 19748473.57 19748473.70 19748473.82 0.0519 0.0007

Saturn 49361-02-09 01:41 G 19749834.40 19749834.57 19749834.76 0.0260 0.0098

Saturn 49361-05-08 23:02 G 19749923.27 19749923.46 19749923.64 0.0261 0.0082

Jupiter 49363-07-08 14:10 G 19750713.92 19750714.09 19750714.25 0.0507 0.0240

Moon 49363-11-18 16:48 G 19750847.11 19750847.20 19750847.29 0.2662 0.1457

Earth 49363-11-18 17:31 G 19750847.14 19750847.23 19750847.32 0.2662 0.1380 *

Mars 49364-03-26 12:43 G 19750975.87 19750976.03 19750976.19 0.1664 0.0520

Venus 49365-07-30 06:00 G 19751466.69 19751466.75 19751466.81 0.3689 0.2943

Venus 49368-05-08 05:31 G 19752479.57 19752479.73 19752479.89 0.3682 0.1111

Jupiter 49369-03-08 09:22 G 19752783.77 19752783.89 19752784.01 0.0519 0.0155

Jupiter 49369-06-05 13:26 G 19752873.00 19752873.06 19752873.12 0.0517 0.0447

Venus 49371-02-12 20:53 G 19753490.28 19753490.37 19753490.47 0.3688 0.0733

Mars 49372-10-17 07:41 G 19754102.74 19754102.82 19754102.90 0.1869 0.1266

Mars 49373-08-16 12:58 G 19754405.91 19754406.04 19754406.16 0.1670 0.1084

Saturn 49375-03-16 07:55 G 19754982.73 19754982.83 19754982.92 0.0302 0.0198

Jupiter 49375-04-26 11:02 G 19755023.88 19755023.96 19755024.06 0.0507 0.0446

Saturn 49375-06-12 20:10 G 19755071.21 19755071.34 19755071.47 0.0301 0.0015

Jupiter 49375-07-26 01:12 G 19755114.46 19755114.55 19755114.64 0.0509 0.0445

Saturn 49375-09-09 08:24 G 19755159.75 19755159.85 19755159.96 0.0301 0.0167

Venus 49376-08-28 12:00 G 19755513.91 19755514.00 19755514.09 0.3688 0.1495

Moon 49376-11-20 10:19 G 19755597.82 19755597.93 19755598.04 0.2666 0.0221

Earth 49376-11-20 10:48 G 19755597.84 19755597.95 19755598.06 0.2661 0.0171 *

Neptune 49378-07-30 04:19 G 19756214.65 19756214.68 19756214.72 0.0089 0.0085

Neptune 49378-10-26 05:31 G 19756302.68 19756302.73 19756302.80 0.0089 0.0078

Neptune 49379-01-22 06:43 G 19756390.71 19756390.78 19756390.87 0.0089 0.0070

Neptune 49379-04-20 08:10 G 19756478.75 19756478.84 19756478.94 0.0089 0.0062

Neptune 49379-07-17 09:36 G 19756566.80 19756566.90 19756567.00 0.0089 0.0054

Neptune 49379-10-13 10:48 G 19756654.84 19756654.95 19756655.06 0.0089 0.0047

Neptune 49380-01-09 12:00 G 19756742.89 19756743.00 19756743.12 0.0089 0.0039

Neptune 49380-04-06 13:26 G 19756830.94 19756831.06 19756831.18 0.0089 0.0031

Neptune 49380-07-03 14:38 G 19756918.99 19756919.11 19756919.24 0.0089 0.0023

Neptune 49380-09-29 15:50 G 19757007.04 19757007.16 19757007.30 0.0089 0.0016

Jupiter 49380-12-25 13:55 G 19757093.98 19757094.08 19757094.18 0.0520 0.0308

Neptune 49380-12-26 17:17 G 19757095.09 19757095.22 19757095.35 0.0089 0.0008

Neptune 49381-03-24 18:29 G 19757183.14 19757183.27 19757183.40 0.0089 0.0001

Jupiter 49381-03-24 18:00 G 19757183.15 19757183.25 19757183.36 0.0517 0.0299 *

Neptune 49381-06-20 19:41 G 19757271.19 19757271.32 19757271.46 0.0089 0.0008

Neptune 49381-09-16 20:53 G 19757359.25 19757359.37 19757359.51 0.0089 0.0016

Neptune 49381-12-13 22:19 G 19757447.30 19757447.43 19757447.56 0.0089 0.0023

Mars 49382-03-09 16:34 G 19757533.08 19757533.19 19757533.31 0.1863 0.0062

Neptune 49382-03-11 23:31 G 19757535.36 19757535.48 19757535.61 0.0089 0.0031

Neptune 49382-06-08 00:43 G 19757623.42 19757623.53 19757623.65 0.0089 0.0038

Neptune 49382-09-04 01:55 G 19757711.48 19757711.58 19757711.70 0.0089 0.0046

Neptune 49382-12-01 03:07 G 19757799.54 19757799.63 19757799.74 0.0089 0.0054

Neptune 49383-02-27 04:34 G 19757887.60 19757887.69 19757887.79 0.0089 0.0061

Neptune 49383-05-26 05:46 G 19757975.66 19757975.74 19757975.82 0.0089 0.0069

Neptune 49383-08-22 06:43 G 19758063.73 19758063.78 19758063.86 0.0089 0.0077

Neptune 49383-11-18 08:24 G 19758151.81 19758151.85 19758151.89 0.0089 0.0084

Earth 49386-05-23 00:58 G 19759068.42 19759068.54 19759068.66 0.2670 0.1805

Moon 49386-05-23 02:24 G 19759068.47 19759068.60 19759068.73 0.2666 0.1588 *

Jupiter 49387-05-13 21:50 G 19759424.24 19759424.41 19759424.58 0.0508 0.0229

Moon 49389-11-23 03:50 G 19760348.56 19760348.66 19760348.76 0.2667 0.0984

Earth 49389-11-23 04:05 G 19760348.57 19760348.67 19760348.76 0.2660 0.1033 *

Uranus 49390-01-06 00:29 G 19760392.44 19760392.52 19760392.63 0.0138 0.0119

Uranus 49390-04-04 08:38 G 19760480.72 19760480.86 19760481.02 0.0138 0.0089

Saturn 49390-06-28 23:31 G 19760566.33 19760566.48 19760566.64 0.0261 0.0159

Uranus 49390-07-01 16:34 G 19760569.02 19760569.19 19760569.38 0.0138 0.0059

Saturn 49390-09-25 20:38 G 19760655.17 19760655.36 19760655.56 0.0261 0.0021

Uranus 49390-09-28 00:43 G 19760657.34 19760657.53 19760657.72 0.0138 0.0029

Saturn 49390-12-23 18:00 G 19760744.13 19760744.25 19760744.37 0.0261 0.0201

Uranus 49390-12-25 08:38 G 19760745.67 19760745.86 19760746.06 0.0138 0.0003

Uranus 49391-03-23 16:48 G 19760834.00 19760834.20 19760834.39 0.0138 0.0031

Uranus 49391-06-20 00:29 G 19760922.35 19760922.52 19760922.70 0.0137 0.0061

Mars 49391-07-31 01:41 G 19760963.49 19760963.57 19760963.65 0.1857 0.1321

Uranus 49391-09-16 08:24 G 19761010.71 19761010.85 19761011.01 0.0137 0.0090

Uranus 49391-12-13 16:34 G 19761099.10 19761099.19 19761099.28 0.0137 0.0120

Jupiter 49392-10-13 18:14 G 19761404.21 19761404.26 19761404.32 0.0520 0.0466

Jupiter 49393-01-10 22:48 G 19761493.32 19761493.45 19761493.57 0.0518 0.0147

Moon 49396-11-16 04:34 G 19762898.64 19762898.69 19762898.73 0.2660 0.2380

Earth 49396-11-16 05:02 G 19762898.66 19762898.71 19762898.76 0.2663 0.2362 *

Jupiter 49399-03-01 18:00 G 19763734.06 19763734.25 19763734.44 0.0507 0.0010

Earth 49399-05-26 10:05 G 19763819.77 19763819.92 19763820.07 0.2672 0.1113

Moon 49399-05-26 10:48 G 19763819.80 19763819.95 19763820.11 0.2665 0.1099 *

Earth 49402-11-26 21:07 G 19765099.32 19765099.38 19765099.44 0.2659 0.2211

Moon 49402-11-26 21:36 G 19765099.35 19765099.40 19765099.45 0.2663 0.2338 *

Mars 49403-09-26 13:26 G 19765402.91 19765403.06 19765403.21 0.1664 0.0755

Saturn 49404-08-03 09:07 G 19765714.82 19765714.88 19765714.95 0.0301 0.0260

Saturn 49404-10-30 21:36 G 19765803.28 19765803.40 19765803.52 0.0301 0.0076

Jupiter 49404-10-31 03:36 G 19765803.53 19765803.65 19765803.78 0.0519 0.0018

Saturn 49405-01-27 09:50 G 19765891.79 19765891.91 19765892.03 0.0300 0.0106

Saturn 49405-04-25 22:05 G 19765980.38 19765980.42 19765980.46 0.0300 0.0285

Moon 49409-11-19 21:36 G 19767649.31 19767649.40 19767649.50 0.2662 0.1264

Earth 49409-11-19 22:19 G 19767649.33 19767649.43 19767649.53 0.2662 0.1144 *

Jupiter 49410-12-19 12:43 G 19768043.87 19768044.03 19768044.20 0.0507 0.0230

Mars 49412-04-18 07:26 G 19768529.74 19768529.81 19768529.89 0.1870 0.1416

Mars 49413-02-15 13:41 G 19768832.93 19768833.07 19768833.21 0.1669 0.0841

Jupiter 49416-08-19 08:53 G 19770113.75 19770113.87 19770113.99 0.0519 0.0137

Jupiter 49416-11-16 12:43 G 19770202.98 19770203.03 19770203.09 0.0517 0.0466

Saturn 49419-11-16 21:50 G 19771298.32 19771298.41 19771298.53 0.0260 0.0216

Saturn 49420-02-13 19:12 G 19771387.11 19771387.30 19771387.49 0.0260 0.0037

Saturn 49420-05-12 16:19 G 19771476.02 19771476.18 19771476.34 0.0261 0.0143

Mars 49421-09-08 16:34 G 19771960.08 19771960.19 19771960.31 0.1863 0.0134

Venus 49422-03-07 03:07 G 19772139.55 19772139.63 19772139.71 0.3689 0.2134

Jupiter 49422-10-07 09:22 G 19772353.81 19772353.89 19772353.99 0.0507 0.0440

Moon 49422-11-22 15:07 G 19772400.03 19772400.13 19772400.24 0.2667 0.0079

Earth 49422-11-22 15:36 G 19772400.04 19772400.15 19772400.26 0.2661 0.0079 *

Jupiter 49423-01-05 23:31 G 19772444.40 19772444.48 19772444.57 0.0509 0.0451

Pluto 49424-02-02 09:22 G 19772836.86 19772836.89 19772836.96 0.0068 0.0063

Pluto 49424-04-30 10:05 G 19772924.84 19772924.92 19772925.01 0.0068 0.0052

Pluto 49424-07-27 10:34 G 19773012.85 19773012.94 19773013.06 0.0068 0.0042

Pluto 49424-10-23 11:17 G 19773100.86 19773100.97 19773101.10 0.0068 0.0031

Venus 49424-12-14 08:24 G 19773152.71 19773152.85 19773152.99 0.3682 0.1829

Pluto 49425-01-19 12:00 G 19773188.87 19773189.00 19773189.13 0.0068 0.0020

Pluto 49425-04-17 12:29 G 19773276.89 19773277.02 19773277.16 0.0068 0.0010

Pluto 49425-07-14 13:12 G 19773364.91 19773365.05 19773365.18 0.0068 0.0002

Pluto 49425-10-10 13:41 G 19773452.94 19773453.07 19773453.20 0.0068 0.0012

Pluto 49426-01-06 14:10 G 19773540.97 19773541.09 19773541.22 0.0068 0.0023

Pluto 49426-04-04 14:38 G 19773629.00 19773629.11 19773629.24 0.0069 0.0034

Pluto 49426-07-01 15:07 G 19773717.04 19773717.13 19773717.24 0.0069 0.0045

Pluto 49426-09-27 15:50 G 19773805.09 19773805.16 19773805.24 0.0069 0.0056

Pluto 49426-12-24 16:19 G 19773893.16 19773893.18 19773893.22 0.0069 0.0067

Venus 49427-09-20 18:14 G 19774163.16 19774163.26 19774163.36 0.3688 0.0124

Jupiter 49428-06-07 13:26 G 19774423.96 19774424.06 19774424.17 0.0520 0.0289

Jupiter 49428-09-04 17:31 G 19774513.13 19774513.23 19774513.33 0.0517 0.0318

Mars 49431-01-30 01:41 G 19775390.48 19775390.57 19775390.66 0.1857 0.1161

Earth 49432-05-24 07:55 G 19775870.68 19775870.83 19775870.97 0.2671 0.1290

Moon 49432-05-24 09:07 G 19775870.73 19775870.88 19775871.03 0.2665 0.1143 *

Venus 49433-04-05 09:07 G 19776186.81 19776186.88 19776186.96 0.3688 0.2316

Uranus 49433-06-29 12:43 G 19776272.01 19776272.03 19776272.07 0.0140 0.0136

Uranus 49433-09-25 16:05 G 19776360.10 19776360.17 19776360.25 0.0140 0.0115

Uranus 49433-12-22 19:26 G 19776448.22 19776448.31 19776448.41 0.0140 0.0095

Saturn 49434-03-19 21:50 G 19776535.30 19776535.41 19776535.52 0.0302 0.0156

Uranus 49434-03-20 22:34 G 19776536.34 19776536.44 19776536.56 0.0140 0.0074

Saturn 49434-06-16 10:05 G 19776623.79 19776623.92 19776624.05 0.0301 0.0028

Uranus 49434-06-17 01:55 G 19776624.46 19776624.58 19776624.70 0.0140 0.0053

Saturn 49434-09-12 22:19 G 19776712.34 19776712.43 19776712.52 0.0301 0.0209

Uranus 49434-09-13 05:17 G 19776712.59 19776712.72 19776712.85 0.0141 0.0032

Jupiter 49434-10-24 20:24 G 19776754.19 19776754.35 19776754.52 0.0508 0.0241

Uranus 49434-12-10 08:38 G 19776800.73 19776800.86 19776800.99 0.0141 0.0012

Uranus 49435-03-08 11:46 G 19776888.86 19776888.99 19776889.12 0.0141 0.0010

Uranus 49435-06-04 15:07 G 19776977.00 19776977.13 19776977.26 0.0141 0.0031

Uranus 49435-08-31 18:14 G 19777065.15 19777065.26 19777065.39 0.0141 0.0052

Moon 49435-11-25 08:53 G 19777150.77 19777150.87 19777150.96 0.2666 0.1298

Earth 49435-11-25 08:38 G 19777150.77 19777150.86 19777150.96 0.2660 0.1259 *

Uranus 49435-11-27 21:36 G 19777153.29 19777153.40 19777153.51 0.0141 0.0073

Uranus 49436-02-24 00:58 G 19777241.45 19777241.54 19777241.64 0.0141 0.0094

Uranus 49436-05-22 04:19 G 19777329.61 19777329.68 19777329.75 0.0141 0.0115

Uranus 49436-08-18 07:26 G 19777417.79 19777417.81 19777417.85 0.0141 0.0137

Jupiter 49440-03-26 18:00 G 19778734.19 19778734.25 19778734.31 0.0520 0.0442

Jupiter 49440-06-23 22:19 G 19778823.31 19778823.43 19778823.55 0.0518 0.0169

Moon 49442-11-18 09:07 G 19779700.83 19779700.88 19779700.94 0.2660 0.2270

Earth 49442-11-18 09:50 G 19779700.85 19779700.91 19779700.97 0.2663 0.2124 *

Mars 49443-03-27 14:10 G 19779829.95 19779830.09 19779830.22 0.1664 0.0986

Earth 49445-05-27 17:02 G 19780622.08 19780622.21 19780622.34 0.2672 0.1643

Moon 49445-05-27 17:31 G 19780622.11 19780622.23 19780622.35 0.2666 0.1766 *

Jupiter 49446-08-12 17:02 G 19781064.03 19781064.21 19781064.40 0.0508 0.0029

Earth 49448-11-27 01:55 G 19781901.54 19781901.58 19781901.62 0.2658 0.2441

Moon 49448-11-27 02:24 G 19781901.57 19781901.60 19781901.64 0.2663 0.2473 *

Saturn 49449-07-02 16:48 G 19782119.02 19782119.20 19782119.38 0.0261 0.0101

Saturn 49449-09-29 13:55 G 19782207.90 19782208.08 19782208.26 0.0261 0.0079

Saturn 49449-12-27 11:02 G 19782296.95 19782296.96 19782296.98 0.0261 0.0260

Mars 49451-10-18 07:26 G 19782956.76 19782956.81 19782956.87 0.1870 0.1582

Jupiter 49452-04-12 02:53 G 19783133.49 19783133.62 19783133.74 0.0519 0.0024

Mars 49452-08-16 14:10 G 19783259.94 19783260.09 19783260.25 0.1670 0.0623

Moon 49455-11-21 02:24 G 19784451.50 19784451.60 19784451.70 0.2663 0.0949

Earth 49455-11-21 03:07 G 19784451.53 19784451.63 19784451.73 0.2662 0.0908 *

Jupiter 49458-05-31 13:26 G 19785373.88 19785374.06 19785374.23 0.0507 0.0192

Mars 49461-03-09 16:34 G 19786387.07 19786387.19 19786387.30 0.1863 0.0279

Neptune 49462-12-28 12:14 G 19787045.98 19787046.01 19787046.09 0.0088 0.0085

Neptune 49463-03-26 16:19 G 19787134.08 19787134.18 19787134.30 0.0089 0.0073

Neptune 49463-06-22 19:55 G 19787222.20 19787222.33 19787222.48 0.0089 0.0062

Saturn 49463-08-06 23:17 G 19787267.38 19787267.47 19787267.56 0.0301 0.0216

Neptune 49463-09-19 00:00 G 19787310.34 19787310.50 19787310.66 0.0089 0.0050

Saturn 49463-11-03 11:46 G 19787355.86 19787355.99 19787356.11 0.0301 0.0034

Neptune 49463-12-16 03:22 G 19787398.48 19787398.64 19787398.83 0.0089 0.0039

Jupiter 49464-01-30 07:41 G 19787443.70 19787443.82 19787443.95 0.0519 0.0130

Saturn 49464-01-31 00:00 G 19787444.39 19787444.50 19787444.61 0.0300 0.0149

Neptune 49464-03-13 07:12 G 19787486.62 19787486.80 19787487.00 0.0089 0.0027

Jupiter 49464-04-28 11:46 G 19787532.95 19787532.99 19787533.04 0.0517 0.0474

Neptune 49464-06-09 11:02 G 19787574.77 19787574.96 19787575.16 0.0089 0.0016

Neptune 49464-09-05 14:53 G 19787662.92 19787663.12 19787663.32 0.0089 0.0004

Neptune 49464-12-02 18:29 G 19787751.08 19787751.27 19787751.47 0.0089 0.0008

Neptune 49465-02-28 22:19 G 19787839.24 19787839.43 19787839.62 0.0089 0.0019

Neptune 49465-05-28 01:55 G 19787927.40 19787927.58 19787927.77 0.0089 0.0031

Neptune 49465-08-24 05:46 G 19788015.57 19788015.74 19788015.92 0.0089 0.0042

Neptune 49465-11-20 09:22 G 19788103.74 19788103.89 19788104.06 0.0089 0.0054

Neptune 49466-02-16 13:12 G 19788191.92 19788192.05 19788192.19 0.0089 0.0065

Neptune 49466-05-15 16:48 G 19788280.11 19788280.20 19788280.31 0.0089 0.0077

Neptune 49466-08-11 20:53 G 19788368.35 19788368.37 19788368.39 0.0089 0.0088

Moon 49468-11-22 19:55 G 19789202.22 19789202.33 19789202.44 0.2667 0.0233

Earth 49468-11-22 20:10 G 19789202.24 19789202.34 19789202.45 0.2660 0.0318 *

Jupiter 49470-03-19 08:10 G 19789683.75 19789683.84 19789683.94 0.0506 0.0429

Jupiter 49470-06-17 22:05 G 19789774.35 19789774.42 19789774.50 0.0509 0.0460

Mars 49470-07-31 01:41 G 19789817.47 19789817.57 19789817.66 0.1857 0.1006

Venus 49473-03-28 09:36 G 19790788.87 19790788.90 19790788.92 0.3689 0.3546

Uranus 49473-10-31 00:58 G 19791005.54 19791005.54 19791005.54 0.0138 0.0138

Uranus 49474-01-27 08:38 G 19791093.75 19791093.86 19791093.99 0.0138 0.0108

Uranus 49474-04-25 16:48 G 19791182.04 19791182.20 19791182.37 0.0138 0.0078

Uranus 49474-07-23 00:58 G 19791270.35 19791270.54 19791270.72 0.0138 0.0048

Uranus 49474-10-19 08:53 G 19791358.67 19791358.87 19791359.06 0.0138 0.0018

Uranus 49475-01-15 16:48 G 19791447.00 19791447.20 19791447.40 0.0138 0.0012

Uranus 49475-04-14 00:43 G 19791535.35 19791535.53 19791535.72 0.0138 0.0041

Uranus 49475-07-11 08:24 G 19791623.70 19791623.85 19791624.03 0.0137 0.0072

Uranus 49475-10-07 16:34 G 19791712.06 19791712.19 19791712.33 0.0137 0.0101

Jupiter 49475-11-18 12:43 G 19791753.93 19791754.03 19791754.14 0.0520 0.0272

Uranus 49476-01-04 00:14 G 19791800.47 19791800.51 19791800.58 0.0137 0.0131

Jupiter 49476-02-15 17:02 G 19791843.11 19791843.21 19791843.30 0.0517 0.0335

Earth 49478-05-25 14:38 G 19792672.96 19792673.11 19792673.27 0.2671 0.0769

Moon 49478-05-25 16:05 G 19792673.01 19792673.17 19792673.33 0.2665 0.0620 *

Venus 49478-10-12 00:29 G 19792812.43 19792812.52 19792812.61 0.3688 0.1330

Saturn 49478-11-19 15:22 G 19792850.99 19792851.14 19792851.30 0.0260 0.0155

Saturn 49479-02-16 12:43 G 19792939.83 19792940.03 19792940.22 0.0261 0.0025

Saturn 49479-05-16 09:36 G 19793028.79 19793028.90 19793029.03 0.0261 0.0205

Earth 49481-11-25 13:26 G 19793952.97 19793953.06 19793953.15 0.2659 0.1487

Moon 49481-11-25 13:41 G 19793952.98 19793953.07 19793953.16 0.2665 0.1527 *

Jupiter 49482-04-05 18:43 G 19794084.12 19794084.28 19794084.44 0.0508 0.0245

Mars 49482-09-25 14:53 G 19794257.01 19794257.12 19794257.23 0.1664 0.1224

Venus 49484-04-26 15:22 G 19794836.05 19794836.14 19794836.24 0.3688 0.0909

Jupiter 49487-09-06 17:31 G 19796064.16 19796064.23 19796064.30 0.0520 0.0424

Jupiter 49487-12-04 21:36 G 19796153.29 19796153.40 19796153.52 0.0518 0.0187

Moon 49488-11-18 13:55 G 19796503.01 19796503.08 19796503.15 0.2660 0.1912

Earth 49488-11-18 14:38 G 19796503.03 19796503.11 19796503.18 0.2662 0.1891 *

Venus 49489-11-10 06:29 G 19796859.72 19796859.77 19796859.82 0.3688 0.3126

Mars 49491-04-18 07:26 G 19797383.77 19797383.81 19797383.85 0.1869 0.1742

Moon 49491-05-29 00:00 G 19797424.40 19797424.50 19797424.60 0.2666 0.2111

Earth 49491-05-29 00:00 G 19797424.41 19797424.50 19797424.59 0.2672 0.2167 *

Mars 49492-02-15 14:53 G 19797686.96 19797687.12 19797687.28 0.1670 0.0389

Saturn 49492-12-23 23:31 G 19797999.46 19797999.48 19797999.51 0.0302 0.0295

Saturn 49493-03-22 12:00 G 19798087.88 19798088.00 19798088.12 0.0301 0.0111

Saturn 49493-06-19 00:14 G 19798176.39 19798176.51 19798176.64 0.0301 0.0072

Saturn 49493-09-15 12:29 G 19798264.95 19798265.02 19798265.09 0.0300 0.0252

Jupiter 49494-01-22 15:36 G 19798393.97 19798394.15 19798394.34 0.0508 0.0037

Jupiter 49499-09-23 02:24 G 19800463.47 19800463.60 19800463.72 0.0518 0.0036

Mars 49500-09-08 16:34 G 19800814.08 19800814.19 19800814.30 0.1863 0.0438

Moon 49501-11-22 07:12 G 19801253.70 19801253.80 19801253.91 0.2665 0.0812

Earth 49501-11-22 07:55 G 19801253.72 19801253.83 19801253.93 0.2661 0.0681 *

Jupiter 49505-11-11 12:29 G 19802703.84 19802704.02 19802704.19 0.0507 0.0177

Saturn 49508-04-08 12:58 G 19803582.95 19803583.04 19803583.15 0.0260 0.0218

Saturn 49508-07-06 10:19 G 19803671.74 19803671.93 19803672.12 0.0261 0.0039

Saturn 49508-10-03 07:26 G 19803760.65 19803760.81 19803760.97 0.0261 0.0141

Mars 49510-01-30 01:41 G 19804244.46 19804244.57 19804244.67 0.1857 0.0841

Pluto 49510-08-28 15:36 G 19804455.09 19804455.15 19804455.21 0.0076 0.0072

Pluto 49510-11-24 17:31 G 19804543.11 19804543.23 19804543.39 0.0076 0.0051

Pluto 49511-02-20 20:10 G 19804631.17 19804631.34 19804631.52 0.0076 0.0030

Pluto 49511-05-19 22:48 G 19804719.26 19804719.45 19804719.64 0.0076 0.0009

Jupiter 49511-07-13 06:43 G 19804773.66 19804773.78 19804773.91 0.0519 0.0121

Pluto 49511-08-16 00:58 G 19804807.36 19804807.54 19804807.73 0.0076 0.0012

Jupiter 49511-10-10 10:48 G 19804862.91 19804862.95 19804862.99 0.0517 0.0483

Pluto 49511-11-12 03:22 G 19804895.47 19804895.64 19804895.82 0.0076 0.0032

Pluto 49512-02-08 05:31 G 19804983.61 19804983.73 19804983.88 0.0075 0.0053

Pluto 49512-05-06 07:55 G 19805071.79 19805071.83 19805071.89 0.0075 0.0073

Moon 49514-11-25 00:43 G 19806004.43 19806004.53 19806004.64 0.2667 0.0532

Earth 49514-11-25 00:58 G 19806004.44 19806004.54 19806004.65 0.2660 0.0533 *

Uranus 49517-07-20 20:38 G 19806973.31 19806973.36 19806973.40 0.0140 0.0129

Jupiter 49517-08-30 08:38 G 19807013.75 19807013.86 19807013.98 0.0506 0.0393

Uranus 49517-10-16 23:31 G 19807061.41 19807061.48 19807061.57 0.0140 0.0110

Jupiter 49517-11-28 22:34 G 19807104.41 19807104.44 19807104.48 0.0509 0.0497

Uranus 49518-01-13 02:53 G 19807149.53 19807149.62 19807149.73 0.0140 0.0088

Uranus 49518-04-11 06:14 G 19807237.65 19807237.76 19807237.88 0.0140 0.0067

Uranus 49518-07-08 09:36 G 19807325.78 19807325.90 19807326.02 0.0140 0.0046

Uranus 49518-10-04 12:58 G 19807413.91 19807414.04 19807414.16 0.0141 0.0026

Uranus 49518-12-31 16:05 G 19807502.04 19807502.17 19807502.30 0.0141 0.0005

Uranus 49519-03-29 19:26 G 19807590.18 19807590.31 19807590.44 0.0141 0.0016

Uranus 49519-06-25 22:34 G 19807678.32 19807678.44 19807678.57 0.0141 0.0038

Uranus 49519-09-22 01:55 G 19807766.47 19807766.58 19807766.70 0.0141 0.0059

Uranus 49519-12-19 05:02 G 19807854.61 19807854.71 19807854.83 0.0141 0.0080

Uranus 49520-03-16 08:24 G 19807942.77 19807942.85 19807942.95 0.0141 0.0101

Uranus 49520-06-12 11:46 G 19808030.93 19808030.99 19808031.06 0.0141 0.0122

Mars 49522-03-27 15:22 G 19808684.06 19808684.14 19808684.22 0.1664 0.1452

Saturn 49522-08-10 13:26 G 19808819.96 19808820.06 19808820.17 0.0301 0.0170

Saturn 49522-11-07 01:55 G 19808908.45 19808908.58 19808908.71 0.0301 0.0014

Saturn 49523-02-03 14:10 G 19808996.99 19808997.09 19808997.19 0.0300 0.0194

Jupiter 49523-05-01 11:46 G 19809083.88 19809083.99 19809084.10 0.0520 0.0266

Jupiter 49523-07-29 15:50 G 19809173.07 19809173.16 19809173.25 0.0518 0.0342

Earth 49524-05-26 21:36 G 19809475.24 19809475.40 19809475.56 0.2671 0.0251

Moon 49524-05-26 22:48 G 19809475.28 19809475.45 19809475.61 0.2666 0.0095 *

Earth 49527-11-27 18:14 G 19810755.18 19810755.26 19810755.34 0.2659 0.1718

Moon 49527-11-27 18:29 G 19810755.19 19810755.27 19810755.35 0.2665 0.1754 *

Jupiter 49529-09-16 17:17 G 19811414.06 19811414.22 19811414.38 0.0508 0.0253

Venus 49529-11-03 06:43 G 19811461.71 19811461.78 19811461.85 0.3689 0.2732

Mars 49531-08-17 15:36 G 19812113.99 19812114.15 19812114.32 0.1669 0.0150

Venus 49532-08-12 01:55 G 19812474.43 19812474.58 19812474.74 0.3682 0.1283

Moon 49534-11-20 18:43 G 19813305.20 19813305.28 19813305.36 0.2661 0.1792

Earth 49534-11-20 19:26 G 19813305.22 19813305.31 19813305.39 0.2662 0.1655 *

Jupiter 49535-02-17 16:34 G 19813394.12 19813394.19 19813394.27 0.0521 0.0411

Jupiter 49535-05-17 20:53 G 19813483.26 19813483.37 19813483.49 0.0518 0.0201

Venus 49535-05-19 21:36 G 19813485.31 19813485.40 19813485.50 0.3688 0.0535

Moon 49537-05-30 06:29 G 19814226.77 19814226.77 19814226.78 0.2665 0.2661

Saturn 49537-11-23 09:07 G 19814403.71 19814403.88 19814404.07 0.0261 0.0091

Saturn 49538-02-20 06:29 G 19814492.59 19814492.77 19814492.95 0.0261 0.0089

Mars 49540-03-09 16:34 G 19815241.08 19815241.19 19815241.30 0.1863 0.0611

Venus 49540-12-02 12:43 G 19815508.94 19815509.03 19815509.12 0.3688 0.1722

Jupiter 49541-07-05 13:41 G 19815723.88 19815724.07 19815724.26 0.0507 0.0038

Neptune 49543-04-28 03:36 G 19816385.62 19816385.65 19816385.69 0.0089 0.0084

Neptune 49543-07-25 04:34 G 19816473.64 19816473.69 19816473.77 0.0089 0.0077

Neptune 49543-10-21 06:00 G 19816561.68 19816561.75 19816561.84 0.0089 0.0069

Neptune 49544-01-17 07:26 G 19816649.72 19816649.81 19816649.91 0.0089 0.0061

Neptune 49544-04-14 08:53 G 19816737.76 19816737.87 19816737.97 0.0089 0.0053

Neptune 49544-07-11 09:50 G 19816825.81 19816825.91 19816826.03 0.0089 0.0046

Neptune 49544-10-07 11:17 G 19816913.86 19816913.97 19816914.09 0.0089 0.0038

Neptune 49545-01-03 12:43 G 19817001.90 19817002.03 19817002.15 0.0089 0.0030

Neptune 49545-04-01 13:55 G 19817089.95 19817090.08 19817090.21 0.0089 0.0022

Neptune 49545-06-28 15:07 G 19817178.00 19817178.13 19817178.26 0.0089 0.0015

Neptune 49545-09-24 16:19 G 19817266.05 19817266.18 19817266.32 0.0089 0.0008

Neptune 49545-12-21 17:46 G 19817354.11 19817354.24 19817354.37 0.0089 0.0001

Neptune 49546-03-19 18:58 G 19817442.16 19817442.29 19817442.42 0.0089 0.0008

Neptune 49546-06-15 20:10 G 19817530.21 19817530.34 19817530.47 0.0089 0.0016

Neptune 49546-09-11 21:22 G 19817618.27 19817618.39 19817618.52 0.0089 0.0024

Neptune 49546-12-08 22:34 G 19817706.33 19817706.44 19817706.57 0.0089 0.0032

Jupiter 49547-03-06 01:41 G 19817793.44 19817793.57 19817793.69 0.0518 0.0051

Neptune 49547-03-07 00:00 G 19817794.38 19817794.50 19817794.62 0.0089 0.0039

Neptune 49547-06-03 01:12 G 19817882.44 19817882.55 19817882.66 0.0089 0.0047

Neptune 49547-08-30 02:24 G 19817970.50 19817970.60 19817970.71 0.0089 0.0055

Moon 49547-11-23 12:00 G 19818055.90 19818056.00 19818056.11 0.2666 0.0453

Earth 49547-11-23 12:29 G 19818055.92 19818056.02 19818056.13 0.2661 0.0451 *

Neptune 49547-11-26 03:50 G 19818058.57 19818058.66 19818058.75 0.0089 0.0062

Neptune 49548-02-22 04:48 G 19818146.63 19818146.70 19818146.79 0.0089 0.0070

Neptune 49548-05-20 06:00 G 19818234.70 19818234.75 19818234.83 0.0089 0.0078

Neptune 49548-08-16 07:26 G 19818322.78 19818322.81 19818322.85 0.0089 0.0085

Mars 49549-07-31 01:26 G 19818671.46 19818671.56 19818671.67 0.1857 0.0687

Saturn 49551-12-28 14:10 G 19819552.02 19819552.09 19819552.17 0.0301 0.0242

Saturn 49552-03-26 02:38 G 19819640.48 19819640.61 19819640.74 0.0301 0.0059

Saturn 49552-06-22 14:53 G 19819729.00 19819729.12 19819729.24 0.0301 0.0123

Jupiter 49553-04-23 10:34 G 19820033.77 19820033.94 19820034.12 0.0507 0.0172

Earth 49557-05-24 19:41 G 19821526.29 19821526.32 19821526.35 0.2670 0.2598

Moon 49557-05-24 21:22 G 19821526.31 19821526.39 19821526.47 0.2666 0.2287 *

Uranus 49557-11-21 09:36 G 19821706.82 19821706.90 19821706.98 0.0138 0.0125

Uranus 49558-02-17 17:46 G 19821795.10 19821795.24 19821795.38 0.0138 0.0095

Uranus 49558-05-17 01:26 G 19821883.40 19821883.56 19821883.74 0.0138 0.0066

Uranus 49558-08-13 09:22 G 19821971.71 19821971.89 19821972.09 0.0138 0.0036

Uranus 49558-11-09 17:31 G 19822060.04 19822060.23 19822060.43 0.0138 0.0006

Jupiter 49558-12-23 06:14 G 19822103.64 19822103.76 19822103.88 0.0519 0.0101

Uranus 49559-02-06 01:26 G 19822148.37 19822148.56 19822148.76 0.0138 0.0024

Jupiter 49559-03-22 10:05 G 19822192.90 19822192.92 19822192.95 0.0517 0.0501

Uranus 49559-05-05 09:07 G 19822236.71 19822236.88 19822237.08 0.0138 0.0055

Uranus 49559-08-01 17:17 G 19822325.07 19822325.22 19822325.38 0.0137 0.0084

Uranus 49559-10-29 00:58 G 19822413.45 19822413.54 19822413.67 0.0137 0.0114

Moon 49560-11-25 05:46 G 19822806.63 19822806.74 19822806.84 0.2666 0.0703

Earth 49560-11-25 05:46 G 19822806.64 19822806.74 19822806.84 0.2660 0.0758 *

Jupiter 49565-02-09 07:26 G 19824343.69 19824343.81 19824343.93 0.0506 0.0382

Jupiter 49565-05-10 21:22 G 19824434.39 19824434.39 19824434.39 0.0509 0.0509

Saturn 49567-04-12 07:12 G 19825135.64 19825135.80 19825135.96 0.0261 0.0152

Saturn 49567-07-10 04:19 G 19825224.49 19825224.68 19825224.87 0.0261 0.0028

Saturn 49567-10-07 01:26 G 19825313.45 19825313.56 19825313.68 0.0261 0.0209

Earth 49567-11-19 06:43 G 19825356.77 19825356.78 19825356.79 0.2663 0.2639

Earth 49570-05-28 04:34 G 19826277.53 19826277.69 19826277.85 0.2671 0.0286

Moon 49570-05-28 05:17 G 19826277.56 19826277.72 19826277.89 0.2665 0.0313 *

Jupiter 49570-10-11 10:34 G 19826413.83 19826413.94 19826414.05 0.0520 0.0259

Jupiter 49571-01-08 14:38 G 19826503.02 19826503.11 19826503.21 0.0517 0.0348

Mars 49571-02-15 16:19 G 19826541.01 19826541.18 19826541.34 0.1670 0.0087

Earth 49573-11-27 23:02 G 19827557.39 19827557.46 19827557.53 0.2659 0.1945

Moon 49573-11-27 23:17 G 19827557.41 19827557.47 19827557.54 0.2665 0.2038 *

Jupiter 49577-02-26 17:17 G 19828744.07 19828744.22 19828744.38 0.0508 0.0286

Mars 49579-09-08 16:19 G 19829668.08 19829668.18 19829668.29 0.1863 0.0748

Mars 49580-07-07 16:19 G 19829971.12 19829971.18 19829971.25 0.1675 0.1531

Moon 49580-11-20 23:31 G 19830107.39 19830107.48 19830107.57 0.2662 0.1472

Earth 49580-11-21 00:00 G 19830107.41 19830107.50 19830107.59 0.2662 0.1422 *

Saturn 49581-05-16 16:05 G 19830284.16 19830284.17 19830284.19 0.0301 0.0298

Saturn 49581-08-13 04:34 G 19830372.57 19830372.69 19830372.81 0.0301 0.0114

Saturn 49581-11-09 16:48 G 19830461.08 19830461.20 19830461.33 0.0300 0.0068

Saturn 49582-02-06 05:02 G 19830549.64 19830549.71 19830549.78 0.0300 0.0248

Jupiter 49582-07-30 15:22 G 19830724.06 19830724.14 19830724.22 0.0521 0.0408

Jupiter 49582-10-27 19:41 G 19830813.20 19830813.32 19830813.44 0.0518 0.0204

Venus 49586-06-10 04:05 G 19832134.58 19832134.67 19832134.75 0.3688 0.1923

Jupiter 49588-12-15 12:00 G 19833053.81 19833054.00 19833054.19 0.0507 0.0043

Mars 49589-01-29 01:26 G 19833098.45 19833098.56 19833098.67 0.1857 0.0522

Venus 49589-03-19 04:48 G 19833147.55 19833147.70 19833147.85 0.3682 0.1629

Venus 49591-12-24 18:58 G 19834158.19 19834158.29 19834158.39 0.3688 0.0313

Moon 49593-11-23 16:48 G 19834858.09 19834858.20 19834858.31 0.2666 0.0337

Earth 49593-11-23 17:17 G 19834858.11 19834858.22 19834858.33 0.2661 0.0213 *

Jupiter 49594-08-16 00:43 G 19835123.40 19835123.53 19835123.65 0.0519 0.0062

Saturn 49596-08-29 06:43 G 19835867.66 19835867.78 19835867.91 0.0261 0.0199

Saturn 49596-11-26 03:50 G 19835956.47 19835956.66 19835956.85 0.0261 0.0020

Saturn 49597-02-23 00:58 G 19836045.39 19836045.54 19836045.70 0.0261 0.0161

Venus 49597-07-09 10:05 G 19836181.85 19836181.92 19836181.99 0.3688 0.2544

Mars 49598-06-21 10:34 G 19836528.91 19836528.94 19836528.96 0.1850 0.1792

Jupiter 49600-10-03 08:24 G 19837363.68 19837363.85 19837364.03 0.0507 0.0173

Uranus 49601-08-10 04:05 G 19837674.62 19837674.67 19837674.74 0.0140 0.0122

Uranus 49601-11-06 07:26 G 19837762.73 19837762.81 19837762.90 0.0140 0.0101

Uranus 49602-02-02 10:48 G 19837850.85 19837850.95 19837851.06 0.0140 0.0081

Uranus 49602-05-01 14:10 G 19837938.97 19837939.09 19837939.20 0.0140 0.0060

Uranus 49602-07-28 17:17 G 19838027.10 19838027.22 19838027.35 0.0141 0.0039

Uranus 49602-10-24 20:38 G 19838115.23 19838115.36 19838115.49 0.0141 0.0018

Uranus 49603-01-21 00:00 G 19838203.37 19838203.50 19838203.63 0.0141 0.0005

Uranus 49603-04-19 03:07 G 19838291.50 19838291.63 19838291.76 0.0141 0.0024

Earth 49603-05-26 02:24 G 19838328.50 19838328.60 19838328.70 0.2670 0.2085

Moon 49603-05-26 04:05 G 19838328.57 19838328.67 19838328.78 0.2666 0.2009 *

Uranus 49603-07-16 06:29 G 19838379.65 19838379.77 19838379.89 0.0141 0.0045

Uranus 49603-10-12 09:50 G 19838467.79 19838467.91 19838468.02 0.0141 0.0066

Uranus 49604-01-08 12:58 G 19838555.94 19838556.04 19838556.15 0.0141 0.0088

Uranus 49604-04-05 16:05 G 19838644.10 19838644.17 19838644.26 0.0141 0.0110

Uranus 49604-07-02 19:26 G 19838732.27 19838732.31 19838732.37 0.0141 0.0131

Jupiter 49606-06-04 05:17 G 19839433.60 19839433.72 19839433.84 0.0519 0.0092

Jupiter 49606-09-01 09:22 G 19839522.87 19839522.89 19839522.90 0.0517 0.0511

Moon 49606-11-26 10:34 G 19839608.84 19839608.94 19839609.04 0.2667 0.1057

Earth 49606-11-26 10:34 G 19839608.84 19839608.94 19839609.04 0.2660 0.0988 *

Mars 49610-08-16 17:02 G 19840968.04 19840968.21 19840968.37 0.1669 0.0316

Saturn 49610-12-31 05:31 G 19841104.63 19841104.73 19841104.84 0.0301 0.0180

Saturn 49611-03-29 18:00 G 19841193.12 19841193.25 19841193.38 0.0301 0.0006

Saturn 49611-06-26 06:14 G 19841281.66 19841281.76 19841281.86 0.0300 0.0184

Jupiter 49612-07-22 05:17 G 19841673.60 19841673.72 19841673.84 0.0506 0.0383

Jupiter 49612-10-20 19:12 G 19841764.30 19841764.30 19841764.31 0.0509 0.0508

Moon 49613-11-19 11:02 G 19842158.92 19842158.96 19842159.00 0.2659 0.2472

Earth 49613-11-19 11:31 G 19842158.94 19842158.98 19842159.02 0.2663 0.2404 *

Earth 49616-05-28 11:31 G 19843079.83 19843079.98 19843080.14 0.2671 0.0814

Moon 49616-05-28 12:00 G 19843079.84 19843080.00 19843080.15 0.2665 0.0950 *

Jupiter 49618-03-23 09:50 G 19843743.80 19843743.91 19843744.02 0.0520 0.0245

Jupiter 49618-06-20 13:55 G 19843832.99 19843833.08 19843833.17 0.0517 0.0362

Mars 49619-03-09 16:19 G 19844095.08 19844095.18 19844095.28 0.1863 0.0919

Earth 49619-11-29 03:36 G 19844359.59 19844359.65 19844359.71 0.2659 0.2176

Moon 49619-11-29 04:05 G 19844359.61 19844359.67 19844359.73 0.2664 0.2194 *

Mars 49620-01-06 17:02 G 19844398.11 19844398.21 19844398.31 0.1675 0.1307

Jupiter 49624-08-08 15:36 G 19846074.00 19846074.15 19846074.31 0.0508 0.0291

Saturn 49626-01-16 04:48 G 19846599.68 19846599.70 19846599.73 0.0261 0.0257

Saturn 49626-04-15 01:55 G 19846688.40 19846688.58 19846688.77 0.0261 0.0079

Saturn 49626-07-12 23:02 G 19846777.29 19846777.46 19846777.64 0.0261 0.0102

Moon 49626-11-22 04:05 G 19846909.58 19846909.67 19846909.77 0.2664 0.1292

Earth 49626-11-22 04:48 G 19846909.60 19846909.70 19846909.80 0.2662 0.1183 *

Neptune 49627-09-25 09:22 G 19847216.84 19847216.89 19847216.96 0.0088 0.0084

Neptune 49627-12-22 12:43 G 19847304.94 19847305.03 19847305.17 0.0088 0.0073

Neptune 49628-03-19 16:48 G 19847393.07 19847393.20 19847393.35 0.0088 0.0061

Neptune 49628-06-15 20:24 G 19847481.20 19847481.35 19847481.53 0.0088 0.0050

Mars 49628-07-30 01:26 G 19847525.45 19847525.56 19847525.67 0.1857 0.0367

Neptune 49628-09-12 00:29 G 19847569.34 19847569.52 19847569.70 0.0088 0.0038

Neptune 49628-12-09 04:05 G 19847657.49 19847657.67 19847657.87 0.0089 0.0026

Neptune 49629-03-07 07:55 G 19847745.64 19847745.83 19847746.03 0.0089 0.0015

Neptune 49629-06-03 11:46 G 19847833.79 19847833.99 19847834.19 0.0089 0.0003

Neptune 49629-08-30 15:22 G 19847921.95 19847922.14 19847922.34 0.0089 0.0008

Neptune 49629-11-26 19:12 G 19848010.11 19848010.30 19848010.49 0.0089 0.0020

Jupiter 49630-01-09 14:10 G 19848054.01 19848054.09 19848054.16 0.0520 0.0405

Neptune 49630-02-22 22:34 G 19848098.27 19848098.44 19848098.64 0.0089 0.0032

Jupiter 49630-04-08 18:29 G 19848143.15 19848143.27 19848143.38 0.0518 0.0207

Neptune 49630-05-22 02:24 G 19848186.44 19848186.60 19848186.79 0.0089 0.0043

Neptune 49630-08-18 06:00 G 19848274.61 19848274.75 19848274.92 0.0089 0.0055

Neptune 49630-11-14 09:50 G 19848362.79 19848362.91 19848363.05 0.0089 0.0066

Neptune 49631-02-10 13:26 G 19848450.99 19848451.06 19848451.17 0.0089 0.0078

Jupiter 49636-05-27 11:46 G 19850383.80 19850383.99 19850384.18 0.0507 0.0068

Venus 49637-07-01 10:19 G 19850783.89 19850783.93 19850783.97 0.3689 0.3323

Mars 49637-12-20 10:34 G 19850955.89 19850955.94 19850955.99 0.1850 0.1645

Moon 49639-11-24 21:36 G 19851660.29 19851660.40 19851660.51 0.2666 0.0034

Earth 49639-11-24 22:05 G 19851660.31 19851660.42 19851660.53 0.2661 0.0026 *

Saturn 49640-05-19 07:55 G 19851836.75 19851836.83 19851836.91 0.0301 0.0231

Saturn 49640-08-15 20:10 G 19851925.21 19851925.34 19851925.47 0.0301 0.0048

Saturn 49640-11-12 08:24 G 19852013.74 19852013.85 19852013.97 0.0300 0.0133

Uranus 49641-12-11 18:29 G 19852408.16 19852408.27 19852408.39 0.0138 0.0112

Jupiter 49642-01-25 23:17 G 19852453.34 19852453.47 19852453.59 0.0519 0.0061

Uranus 49642-03-10 02:24 G 19852496.45 19852496.60 19852496.77 0.0138 0.0082

Uranus 49642-06-06 10:34 G 19852584.76 19852584.94 19852585.12 0.0138 0.0052

Uranus 49642-09-02 18:29 G 19852673.08 19852673.27 19852673.47 0.0138 0.0022

Uranus 49642-11-30 02:24 G 19852761.41 19852761.60 19852761.80 0.0138 0.0008

Venus 49643-01-15 01:12 G 19852807.46 19852807.55 19852807.65 0.3688 0.1108

Uranus 49643-02-26 10:19 G 19852849.75 19852849.93 19852850.13 0.0138 0.0038

Uranus 49643-05-25 18:14 G 19852938.09 19852938.26 19852938.44 0.0137 0.0067

Uranus 49643-08-22 02:24 G 19853026.46 19853026.60 19853026.74 0.0137 0.0097

Uranus 49643-11-18 10:05 G 19853114.85 19853114.92 19853115.00 0.0137 0.0126

Jupiter 49648-03-15 06:29 G 19854693.60 19854693.77 19854693.95 0.0506 0.0172

Venus 49648-07-30 16:19 G 19854831.08 19854831.18 19854831.27 0.3688 0.1134

Earth 49649-05-26 09:22 G 19855130.76 19855130.89 19855131.02 0.2670 0.1569

Moon 49649-05-26 10:48 G 19855130.80 19855130.95 19855131.09 0.2666 0.1305 *

Mars 49650-02-14 17:46 G 19855395.08 19855395.24 19855395.40 0.1669 0.0555

Earth 49652-11-26 15:22 G 19856411.04 19856411.14 19856411.23 0.2660 0.1219

Moon 49652-11-26 15:22 G 19856411.05 19856411.14 19856411.24 0.2667 0.1187 *

Jupiter 49653-11-14 04:05 G 19856763.54 19856763.67 19856763.79 0.0520 0.0088

Jupiter 49654-02-11 08:10 G 19856852.84 19856852.84 19856852.84 0.0517 0.0516

Venus 49654-02-13 07:12 G 19856854.76 19856854.80 19856854.84 0.3688 0.3362

Saturn 49655-09-02 02:10 G 19857420.42 19857420.59 19857420.76 0.0261 0.0121

Saturn 49655-11-29 23:17 G 19857509.28 19857509.47 19857509.66 0.0261 0.0059

Saturn 49656-02-26 20:24 G 19857598.29 19857598.35 19857598.43 0.0262 0.0241

Mars 49658-09-07 16:19 G 19858522.09 19858522.18 19858522.28 0.1863 0.1082

Mars 49659-07-07 17:46 G 19858825.11 19858825.24 19858825.36 0.1675 0.1076

Moon 49659-11-20 15:36 G 19858961.10 19858961.15 19858961.21 0.2660 0.2218

Earth 49659-11-20 16:19 G 19858961.12 19858961.18 19858961.24 0.2663 0.2165 *

Jupiter 49660-01-02 02:53 G 19859003.50 19859003.62 19859003.74 0.0506 0.0388

Jupiter 49660-04-01 16:34 G 19859094.17 19859094.19 19859094.22 0.0508 0.0501

Earth 49662-05-29 18:29 G 19859882.13 19859882.27 19859882.41 0.2671 0.1338

Moon 49662-05-29 18:43 G 19859882.13 19859882.28 19859882.43 0.2664 0.1242 *

Jupiter 49665-09-02 08:38 G 19861073.75 19861073.86 19861073.97 0.0520 0.0242

Earth 49665-11-29 08:24 G 19861161.81 19861161.85 19861161.89 0.2659 0.2401

Moon 49665-11-29 08:53 G 19861161.84 19861161.87 19861161.90 0.2662 0.2530 *

Jupiter 49665-11-30 12:43 G 19861162.94 19861163.03 19861163.12 0.0517 0.0366

Mars 49668-01-29 01:26 G 19861952.45 19861952.56 19861952.67 0.1857 0.0205

Saturn 49669-10-06 09:36 G 19862568.87 19862568.90 19862568.93 0.0301 0.0288

Saturn 49670-01-02 21:50 G 19862657.29 19862657.41 19862657.53 0.0301 0.0106

Saturn 49670-04-01 10:05 G 19862745.80 19862745.92 19862746.05 0.0300 0.0078

Saturn 49670-06-28 22:19 G 19862834.37 19862834.43 19862834.50 0.0300 0.0256

Pluto 49671-03-14 20:38 G 19863093.32 19863093.36 19863093.43 0.0068 0.0062

Pluto 49671-06-10 21:22 G 19863181.31 19863181.39 19863181.49 0.0068 0.0051

Pluto 49671-09-06 22:05 G 19863269.32 19863269.42 19863269.53 0.0068 0.0040

Pluto 49671-12-03 22:34 G 19863357.33 19863357.44 19863357.57 0.0068 0.0030

Jupiter 49672-01-19 13:12 G 19863403.89 19863404.05 19863404.20 0.0508 0.0284

Pluto 49672-02-29 23:17 G 19863445.34 19863445.47 19863445.60 0.0068 0.0019

Pluto 49672-05-27 23:46 G 19863533.36 19863533.49 19863533.63 0.0068 0.0009

Pluto 49672-08-24 00:29 G 19863621.38 19863621.52 19863621.65 0.0068 0.0003

Pluto 49672-11-20 00:58 G 19863709.41 19863709.54 19863709.67 0.0068 0.0013

Moon 49672-11-22 08:53 G 19863711.77 19863711.87 19863711.97 0.2665 0.1038

Earth 49672-11-22 09:36 G 19863711.80 19863711.90 19863712.00 0.2662 0.0951 *

Pluto 49673-02-16 01:26 G 19863797.44 19863797.56 19863797.69 0.0068 0.0024

Pluto 49673-05-15 02:10 G 19863885.47 19863885.59 19863885.70 0.0069 0.0035

Pluto 49673-08-11 02:38 G 19863973.51 19863973.61 19863973.71 0.0069 0.0046

Pluto 49673-11-07 03:07 G 19864061.57 19864061.63 19864061.71 0.0069 0.0057

Pluto 49674-02-03 03:50 G 19864149.65 19864149.66 19864149.68 0.0069 0.0068

Mars 49677-06-20 10:34 G 19865382.87 19865382.94 19865383.00 0.1850 0.1478

Jupiter 49677-06-21 12:58 G 19865383.96 19865384.04 19865384.13 0.0520 0.0397

Jupiter 49677-09-18 17:17 G 19865473.11 19865473.22 19865473.34 0.0518 0.0216

Jupiter 49683-11-07 09:36 G 19867713.71 19867713.90 19867714.09 0.0507 0.0067

Saturn 49685-01-19 00:43 G 19868152.39 19868152.53 19868152.67 0.0261 0.0176

Saturn 49685-04-17 21:50 G 19868241.22 19868241.41 19868241.61 0.0261 0.0007

Uranus 49685-06-03 08:10 G 19868287.83 19868287.84 19868287.87 0.0140 0.0137

Saturn 49685-07-15 18:58 G 19868330.17 19868330.29 19868330.44 0.0261 0.0186

Uranus 49685-08-30 11:31 G 19868375.91 19868375.98 19868376.06 0.0140 0.0117

Moon 49685-11-25 02:38 G 19868462.50 19868462.61 19868462.71 0.2667 0.0199

Earth 49685-11-25 02:53 G 19868462.51 19868462.62 19868462.73 0.2661 0.0256 *

Uranus 49685-11-26 14:38 G 19868464.03 19868464.11 19868464.22 0.0140 0.0097

Uranus 49686-02-22 18:00 G 19868552.15 19868552.25 19868552.37 0.0140 0.0075

Uranus 49686-05-21 21:22 G 19868640.27 19868640.39 19868640.51 0.0140 0.0054

Uranus 49686-08-18 00:43 G 19868728.40 19868728.53 19868728.66 0.0140 0.0033

Uranus 49686-11-14 04:05 G 19868816.54 19868816.67 19868816.80 0.0141 0.0013

Uranus 49687-02-10 07:12 G 19868904.67 19868904.80 19868904.93 0.0141 0.0009

Uranus 49687-05-09 10:34 G 19868992.81 19868992.94 19869993.07 0.0141 0.0030

Uranus 49687-08-05 13:41 G 19869080.96 19869081.07 19869081.20 0.0141 0.0051

Uranus 49687-11-01 17:02 G 19869169.10 19869169.21 19869169.32 0.0141 0.0072

Uranus 49688-01-28 20:24 G 19869257.25 19869257.35 19869257.45 0.0141 0.0093

Uranus 49688-04-25 23:31 G 19869345.41 19869345.48 19869345.56 0.0141 0.0115

Uranus 49688-07-23 02:53 G 19869433.59 19869433.62 19869433.66 0.0141 0.0136

Jupiter 49689-07-07 21:36 G 19869783.28 19869783.40 19869783.53 0.0519 0.0059

Mars 49689-08-15 18:14 G 19869822.11 19869822.26 19869822.41 0.1669 0.0776

Venus 49694-02-05 07:26 G 19871456.74 19871456.81 19871456.89 0.3688 0.2513

Earth 49695-05-27 16:19 G 19871933.03 19871933.18 19871933.32 0.2670 0.1056

Moon 49695-05-27 17:17 G 19871933.07 19871933.22 19871933.37 0.2665 0.1008 *

Jupiter 49695-08-26 05:31 G 19872023.56 19872023.73 19872023.91 0.0507 0.0155

Venus 49696-11-13 22:19 G 19872469.28 19872469.43 19872469.58 0.3682 0.1533

Mars 49698-03-08 16:19 G 19872949.09 19872949.18 19872949.26 0.1863 0.1228

Earth 49698-11-27 19:55 G 19873213.24 19873213.33 19873213.42 0.2660 0.1450

Moon 49698-11-27 20:10 G 19873213.26 19873213.34 19873213.43 0.2667 0.1532 *

Mars 49699-01-05 18:29 G 19873252.13 19873252.27 19873252.42 0.1675 0.0828

Saturn 49699-05-23 00:29 G 19873389.41 19873389.52 19873389.63 0.0301 0.0153

Saturn 49699-08-19 12:43 G 19873477.90 19873478.03 19873478.16 0.0300 0.0030

Venus 49699-08-21 22:34 G 19873480.34 19873480.44 19873480.54 0.3688 0.0289

Saturn 49699-11-16 00:58 G 19873566.45 19873566.54 19873566.63 0.0300 0.0210

Jupiter 49701-04-27 02:24 G 19874093.47 19874093.60 19874093.72 0.0520 0.0093

Jupiter 49701-07-25 06:29 G 19874182.76 19874182.77 19874182.78 0.0517 0.0512

Venus 49705-03-07 13:26 G 19875503.98 19875504.06 19875504.15 0.3688 0.1957

Moon 49705-11-21 20:24 G 19875763.28 19875763.35 19875763.42 0.2662 0.2053

Earth 49705-11-21 21:07 G 19875763.30 19875763.38 19875763.45 0.2663 0.1926 *

Jupiter 49707-06-15 00:29 G 19876333.41 19876333.52 19876333.64 0.0506 0.0391

Mars 49707-07-31 01:26 G 19876379.44 19876379.56 19876379.67 0.1857 0.0062

Jupiter 49707-09-13 14:24 G 19876424.06 19876424.10 19876424.14 0.0508 0.0496

Neptune 49708-01-24 02:53 G 19876556.58 19876556.62 19876556.66 0.0089 0.0083

Neptune 49708-04-21 03:50 G 19876644.61 19876644.66 19876644.74 0.0089 0.0076

Earth 49708-05-31 01:26 G 19876684.44 19876684.56 19876684.67 0.2672 0.1859

Moon 49708-05-31 01:26 G 19876684.45 19876684.56 19876684.67 0.2665 0.1974 *

Neptune 49708-07-18 05:17 G 19876732.64 19876732.72 19876732.81 0.0089 0.0068

Neptune 49708-10-14 06:43 G 19876820.69 19876820.78 19876820.88 0.0089 0.0060

Neptune 49709-01-10 07:41 G 19876908.73 19876908.82 19876908.94 0.0089 0.0053

Neptune 49709-04-08 09:07 G 19876996.78 19876996.88 19876997.00 0.0089 0.0045

Neptune 49709-07-05 10:34 G 19877084.82 19877084.94 19877085.06 0.0089 0.0037

Neptune 49709-10-01 11:46 G 19877172.87 19877172.99 19877173.12 0.0089 0.0029

Neptune 49709-12-28 12:58 G 19877260.92 19877261.04 19877261.17 0.0089 0.0022

Neptune 49710-03-26 14:24 G 19877348.97 19877349.10 19877349.23 0.0089 0.0014

Neptune 49710-06-22 15:36 G 19877437.02 19877437.15 19877437.28 0.0089 0.0006

Neptune 49710-09-18 16:48 G 19877525.07 19877525.20 19877525.34 0.0089 0.0003

Neptune 49710-12-15 18:14 G 19877613.13 19877613.26 19877613.39 0.0089 0.0010

Neptune 49711-03-13 19:26 G 19877701.18 19877701.31 19877701.44 0.0089 0.0017

Neptune 49711-06-09 20:38 G 19877789.24 19877789.36 19877789.49 0.0089 0.0025

Neptune 49711-09-05 21:50 G 19877877.29 19877877.41 19877877.54 0.0089 0.0033

Earth 49711-12-01 13:12 G 19877964.03 19877964.05 19877964.06 0.2659 0.2627

Moon 49711-12-01 13:41 G 19877964.07 19877964.07 19877964.08 0.2661 0.2654

Neptune 49711-12-02 23:17 G 19877965.35 19877965.47 19877965.58 0.0089 0.0040

Neptune 49712-02-29 00:14 G 19878053.41 19878053.51 19878053.63 0.0089 0.0048

Neptune 49712-05-27 01:26 G 19878141.47 19878141.56 19878141.67 0.0089 0.0056

Neptune 49712-08-23 02:53 G 19878229.53 19878229.62 19878229.71 0.0089 0.0063

Neptune 49712-11-19 04:05 G 19878317.60 19878317.67 19878317.75 0.0089 0.0071

Jupiter 49713-02-13 06:58 G 19878403.68 19878403.79 19878403.90 0.0521 0.0244

Neptune 49713-02-15 05:17 G 19878405.67 19878405.72 19878405.79 0.0089 0.0079

Jupiter 49713-05-13 11:17 G 19878492.88 19878492.97 19878493.06 0.0518 0.0366

Neptune 49713-05-14 06:43 G 19878493.75 19878493.78 19878493.81 0.0089 0.0086

Saturn 49714-06-09 01:26 G 19878884.45 19878884.56 19878884.67 0.0261 0.0214

Saturn 49714-09-05 22:34 G 19878973.25 19878973.44 19878973.63 0.0261 0.0035

Saturn 49714-12-03 19:41 G 19879062.17 19879062.32 19879062.48 0.0262 0.0147

Mars 49716-12-20 10:34 G 19879809.86 19879809.94 19879810.02 0.1850 0.1310

Moon 49718-11-24 13:41 G 19880513.97 19880514.07 19880514.17 0.2664 0.0792

Earth 49718-11-24 14:24 G 19880513.99 19880514.10 19880514.20 0.2662 0.0717 *

Jupiter 49719-07-02 10:19 G 19880733.77 19880733.93 19880734.09 0.0508 0.0273

Jupiter 49724-12-02 11:31 G 19882713.90 19882713.98 19882714.06 0.0521 0.0400

Jupiter 49725-03-01 15:50 G 19882803.05 19882803.16 19882803.28 0.0518 0.0213

Uranus 49725-10-05 18:58 G 19883021.24 19883021.29 19883021.36 0.0138 0.0130

Uranus 49726-01-02 02:53 G 19883109.50 19883109.62 19883109.76 0.0138 0.0101

Uranus 49726-03-31 11:02 G 19883197.79 19883197.96 19883198.13 0.0138 0.0070

Uranus 49726-06-27 19:12 G 19883286.11 19883286.30 19883286.48 0.0138 0.0040

Uranus 49726-09-24 03:07 G 19883374.43 19883374.63 19883374.83 0.0138 0.0010

Uranus 49726-12-21 11:02 G 19883462.77 19883462.96 19883463.16 0.0138 0.0020

Uranus 49727-03-19 18:58 G 19883551.11 19883551.29 19883551.48 0.0138 0.0050

Uranus 49727-06-16 02:38 G 19883639.46 19883639.61 19883639.78 0.0138 0.0080

Uranus 49727-09-12 10:34 G 19883727.84 19883727.94 19883728.07 0.0137 0.0109

Saturn 49728-10-10 02:38 G 19884121.52 19884121.61 19884121.71 0.0301 0.0202

Saturn 49729-01-06 14:53 G 19884210.00 19884210.12 19884210.25 0.0300 0.0021

Mars 49729-02-14 18:58 G 19884249.16 19884249.29 19884249.42 0.1669 0.1013

Saturn 49729-04-05 03:07 G 19884298.53 19884298.63 19884298.74 0.0300 0.0162

Jupiter 49731-04-20 06:43 G 19885043.59 19885043.78 19885043.97 0.0507 0.0054

Moon 49731-11-27 07:26 G 19885264.71 19885264.81 19885264.92 0.2667 0.0479

Earth 49731-11-27 07:41 G 19885264.71 19885264.82 19885264.92 0.2661 0.0492 *

Jupiter 49736-12-18 20:24 G 19887113.23 19887113.35 19887113.48 0.0519 0.0062

Mars 49737-09-07 16:19 G 19887376.10 19887376.18 19887376.25 0.1863 0.1391

Mars 49738-07-07 18:58 G 19887679.14 19887679.29 19887679.45 0.1675 0.0609

Earth 49741-05-28 23:17 G 19888735.31 19888735.47 19888735.62 0.2670 0.0538

Moon 49741-05-29 00:00 G 19888735.33 19888735.50 19888735.66 0.2664 0.0400 *

Jupiter 49743-02-06 03:07 G 19889353.45 19889353.63 19889353.81 0.0507 0.0163

Saturn 49744-01-23 21:36 G 19889705.22 19889705.40 19889705.58 0.0261 0.0086

Saturn 49744-04-21 18:43 G 19889794.11 19889794.28 19889794.46 0.0261 0.0095

Earth 49744-11-29 00:43 G 19890015.45 19890015.53 19890015.61 0.2660 0.1674

Moon 49744-11-29 00:58 G 19890015.46 19890015.54 19890015.63 0.2666 0.1678 *

Mars 49747-01-29 01:26 G 19890806.44 19890806.56 19890806.67 0.1857 0.0128

Jupiter 49748-10-07 00:43 G 19891423.40 19891423.53 19891423.65 0.0519 0.0099

Jupiter 49749-01-04 04:48 G 19891512.68 19891512.70 19891512.72 0.0517 0.0505

Venus 49750-09-13 04:48 G 19892129.61 19892129.70 19892129.79 0.3688 0.1699

Moon 49751-11-23 01:12 G 19892565.46 19892565.55 19892565.63 0.2663 0.1729

Earth 49751-11-23 01:55 G 19892565.49 19892565.58 19892565.66 0.2663 0.1697 *

Venus 49753-06-22 01:12 G 19893142.40 19893142.55 19893142.70 0.3682 0.1449

Moon 49754-06-01 08:10 G 19893486.76 19893486.84 19893486.93 0.2665 0.2262

Earth 49754-06-01 08:24 G 19893486.78 19893486.85 19893486.92 0.2672 0.2388 *

Jupiter 49754-11-24 23:17 G 19893663.35 19893663.47 19893663.59 0.0506 0.0382

Jupiter 49755-02-23 12:58 G 19893754.03 19893754.04 19893754.05 0.0508 0.0507

Venus 49756-03-28 19:55 G 19894153.23 19894153.33 19894153.42 0.3688 0.0559

Mars 49756-06-20 10:19 G 19894236.84 19894236.93 19894237.02 0.1850 0.1169

Pluto 49757-10-08 00:29 G 19894711.47 19894711.52 19894711.59 0.0076 0.0072

Pluto 49758-01-04 03:07 G 19894799.49 19894799.63 19894799.77 0.0076 0.0051

Saturn 49758-02-27 05:17 G 19894853.65 19894853.72 19894853.80 0.0301 0.0245

Pluto 49758-04-02 05:17 G 19894887.56 19894887.72 19894887.91 0.0076 0.0030

Saturn 49758-05-26 17:46 G 19894942.11 19894942.24 19894942.37 0.0301 0.0062

Pluto 49758-06-29 07:55 G 19894975.64 19894975.83 19894976.02 0.0076 0.0009

Saturn 49758-08-23 06:00 G 19895030.63 19895030.75 19895030.87 0.0300 0.0119

Pluto 49758-09-25 10:05 G 19895063.74 19895063.92 19895064.12 0.0076 0.0012

Saturn 49758-11-19 18:00 G 19895119.25 19895119.25 19895119.27 0.0300 0.0299

Pluto 49758-12-22 12:14 G 19895151.86 19895152.01 19895152.20 0.0076 0.0033

Pluto 49759-03-20 14:53 G 19895239.99 19895240.12 19895240.26 0.0075 0.0053

Pluto 49759-06-16 16:48 G 19895328.18 19895328.20 19895328.27 0.0075 0.0074

Jupiter 49760-07-26 05:17 G 19895733.61 19895733.72 19895733.83 0.0520 0.0252

Jupiter 49760-10-23 09:22 G 19895822.80 19895822.89 19895822.98 0.0518 0.0358

Venus 49761-10-12 10:48 G 19896176.88 19896176.95 19896177.01 0.3688 0.2759

Moon 49764-11-24 18:29 G 19897316.17 19897316.27 19897316.38 0.2665 0.0587

Earth 49764-11-24 19:12 G 19897316.19 19897316.30 19897316.40 0.2662 0.0488 *

Jupiter 49766-12-12 07:41 G 19898063.67 19898063.82 19898063.98 0.0507 0.0265

Mars 49768-08-15 19:55 G 19898676.22 19898676.33 19898676.44 0.1669 0.1258

Uranus 49769-06-24 15:50 G 19898989.12 19898989.16 19898989.21 0.0140 0.0130

Uranus 49769-09-20 18:58 G 19899077.22 19899077.29 19899077.38 0.0140 0.0110

Uranus 49769-12-17 22:19 G 19899165.34 19899165.43 19899165.54 0.0140 0.0089

Uranus 49770-03-16 01:41 G 19899253.46 19899253.57 19899253.69 0.0140 0.0068

Uranus 49770-06-12 05:02 G 19899341.59 19899341.71 19899341.83 0.0140 0.0047

Uranus 49770-09-08 08:10 G 19899429.72 19899429.84 19899429.97 0.0140 0.0027

Uranus 49770-12-05 11:31 G 19899517.85 19899517.98 19899518.11 0.0140 0.0006

Uranus 49771-03-03 14:53 G 19899605.99 19899606.12 19899606.25 0.0141 0.0016

Uranus 49771-05-30 18:00 G 19899694.13 19899694.25 19899694.38 0.0141 0.0037

Uranus 49771-08-26 21:22 G 19899782.27 19899782.39 19899782.51 0.0141 0.0058

Uranus 49771-11-23 00:29 G 19899870.42 19899870.52 19899870.64 0.0141 0.0079

Uranus 49772-02-19 03:50 G 19899958.58 19899958.66 19899958.76 0.0141 0.0100

Jupiter 49772-05-14 09:36 G 19900043.83 19900043.90 19900043.98 0.0521 0.0409

Uranus 49772-05-17 07:12 G 19900046.74 19900046.80 19900046.87 0.0141 0.0121

Jupiter 49772-08-11 14:10 G 19900132.97 19900133.09 19900133.20 0.0519 0.0207

Saturn 49773-06-11 22:48 G 19900437.28 19900437.45 19900437.62 0.0262 0.0121

Saturn 49773-09-08 19:55 G 19900526.14 19900526.33 19900526.52 0.0262 0.0060

Saturn 49773-12-06 17:17 G 19900615.15 19900615.22 19900615.29 0.0262 0.0243

Mars 49777-03-08 16:19 G 19901803.12 19901803.18 19901803.24 0.1863 0.1563

Moon 49777-11-27 12:14 G 19902066.91 19902067.01 19902067.11 0.2668 0.0718

Earth 49777-11-27 12:14 G 19902066.91 19902067.01 19902067.12 0.2661 0.0727 *

Mars 49778-01-05 19:55 G 19902106.16 19902106.33 19902106.49 0.1675 0.0372

Jupiter 49778-09-30 03:36 G 19902373.47 19902373.65 19902373.84 0.0507 0.0042

Jupiter 49784-05-30 18:43 G 19904443.15 19904443.28 19904443.40 0.0519 0.0054

Mars 49786-07-30 01:12 G 19905233.44 19905233.55 19905233.67 0.1857 0.0271

Earth 49787-05-30 06:00 G 19905537.59 19905537.75 19905537.91 0.2671 0.0033

Moon 49787-05-30 06:43 G 19905537.62 19905537.78 19905537.95 0.2664 0.0042 *

Saturn 49787-07-17 08:10 G 19905585.81 19905585.84 19905585.88 0.0301 0.0286

Saturn 49787-10-13 20:38 G 19905674.24 19905674.36 19905674.48 0.0300 0.0103

Saturn 49788-01-10 08:53 G 19905762.75 19905762.87 19905762.99 0.0300 0.0078

Saturn 49788-04-07 20:53 G 19905851.31 19905851.37 19905851.44 0.0300 0.0258

Jupiter 49790-07-18 23:46 G 19906683.32 19906683.49 19906683.67 0.0507 0.0180

Earth 49790-11-30 05:31 G 19906817.66 19906817.73 19906817.80 0.2660 0.1903

Moon 49790-11-30 06:00 G 19906817.68 19906817.75 19906817.82 0.2664 0.1983 *

Neptune 49792-06-22 05:46 G 19907387.70 19907387.74 19907387.83 0.0088 0.0084

Neptune 49792-09-18 09:50 G 19907475.80 19907475.91 19907476.03 0.0088 0.0072

Neptune 49792-12-15 13:26 G 19907563.93 19907564.06 19907564.22 0.0088 0.0061

Neptune 49793-03-13 17:31 G 19907652.06 19907652.23 19907652.39 0.0088 0.0049

Neptune 49793-06-09 20:53 G 19907740.20 19907740.37 19907740.56 0.0088 0.0038

Neptune 49793-09-06 00:58 G 19907828.35 19907828.54 19907828.73 0.0088 0.0026

Neptune 49793-12-03 04:34 G 19907916.50 19907916.69 19907916.89 0.0088 0.0015

Neptune 49794-03-01 08:24 G 19908004.65 19908004.85 19908005.05 0.0089 0.0003

Neptune 49794-05-28 12:00 G 19908092.81 19908093.00 19908093.20 0.0089 0.0009

Neptune 49794-08-24 15:50 G 19908180.97 19908181.16 19908181.35 0.0089 0.0020

Neptune 49794-11-20 19:26 G 19908269.13 19908269.31 19908269.50 0.0089 0.0032

Neptune 49795-02-16 23:17 G 19908357.30 19908357.47 19908357.64 0.0089 0.0043

Neptune 49795-05-16 02:53 G 19908445.47 19908445.62 19908445.78 0.0089 0.0055

Neptune 49795-08-12 06:14 G 19908533.65 19908533.76 19908533.91 0.0089 0.0067

Neptune 49795-11-08 10:19 G 19908621.85 19908621.93 19908622.03 0.0089 0.0078

Mars 49795-12-20 10:19 G 19908663.84 19908663.93 19908664.03 0.1850 0.0996

Jupiter 49796-03-18 23:17 G 19908753.34 19908753.47 19908753.59 0.0519 0.0100

Jupiter 49796-06-16 03:22 G 19908842.61 19908842.64 19908842.66 0.0517 0.0504

Moon 49797-11-23 05:46 G 19909367.66 19909367.74 19909367.83 0.2663 0.1619

Earth 49797-11-23 06:29 G 19909367.68 19909367.77 19909367.86 0.2663 0.1461 *

Venus 49801-10-05 11:02 G 19910778.91 19910778.96 19910779.01 0.3689 0.3114

Jupiter 49802-05-07 20:10 G 19910993.23 19910993.34 19910993.46 0.0506 0.0395

Jupiter 49802-08-06 10:05 G 19911083.88 19911083.92 19911083.96 0.0508 0.0494

Saturn 49802-10-30 22:05 G 19911169.28 19911169.42 19911169.57 0.0261 0.0169

Saturn 49803-01-27 19:12 G 19911258.11 19911258.30 19911258.50 0.0261 0.0012

Saturn 49803-04-26 16:34 G 19911347.06 19911347.19 19911347.32 0.0262 0.0193

Venus 49807-04-21 02:10 G 19912802.49 19912802.59 19912802.68 0.3688 0.0895

Jupiter 49808-01-07 03:22 G 19913063.53 19913063.64 19913063.75 0.0520 0.0261

Mars 49808-02-15 20:24 G 19913103.27 19913103.35 19913103.42 0.1669 0.1480

Jupiter 49808-04-05 07:41 G 19913152.72 19913152.82 19913152.91 0.0518 0.0348

Uranus 49809-10-27 02:53 G 19913722.53 19913722.62 19913722.72 0.0138 0.0120

Uranus 49810-01-23 10:48 G 19913810.81 19913810.95 19913811.11 0.0138 0.0090

Uranus 49810-04-21 18:58 G 19913899.12 19913899.29 19913899.47 0.0138 0.0060

Uranus 49810-07-19 02:53 G 19913987.44 19913987.62 19913987.82 0.0138 0.0030

Uranus 49810-10-15 11:02 G 19914075.76 19914075.96 19914076.16 0.0138 0.0000

Moon 49810-11-26 23:31 G 19914118.37 19914118.48 19914118.58 0.2666 0.0269

Earth 49810-11-26 23:46 G 19914118.39 19914118.49 19914118.60 0.2661 0.0274 *

Uranus 49811-01-11 18:58 G 19914164.10 19914164.29 19914164.49 0.0138 0.0030

Uranus 49811-04-10 03:07 G 19914252.45 19914252.63 19914252.80 0.0138 0.0060

Uranus 49811-07-07 10:48 G 19914340.81 19914340.95 19914341.11 0.0138 0.0090

Uranus 49811-10-03 18:43 G 19914429.20 19914429.28 19914429.39 0.0137 0.0120

Venus 49812-11-03 17:02 G 19914826.12 19914826.21 19914826.30 0.3688 0.1349

Jupiter 49814-05-25 05:46 G 19915393.59 19915393.74 19915393.90 0.0508 0.0268

Mars 49816-09-07 16:05 G 19916230.13 19916230.17 19916230.22 0.1863 0.1699

Saturn 49817-03-02 23:17 G 19916406.36 19916406.47 19916406.59 0.0301 0.0147

Saturn 49817-05-30 11:46 G 19916494.86 19916494.99 19916495.11 0.0300 0.0036

Mars 49817-07-07 20:38 G 19916533.19 19916533.36 19916533.52 0.1675 0.0131

Saturn 49817-08-26 23:46 G 19916583.41 19916583.49 19916583.58 0.0300 0.0216

Venus 49818-05-20 07:55 G 19916849.81 19916849.83 19916849.85 0.3688 0.3583

Jupiter 49819-10-26 07:41 G 19917373.75 19917373.82 19917373.90 0.0521 0.0418

Jupiter 49820-01-23 12:14 G 19917462.89 19917463.01 19917463.12 0.0519 0.0197

Earth 49820-05-28 04:05 G 19917588.59 19917588.67 19917588.74 0.2670 0.2369

Moon 49820-05-28 05:17 G 19917588.62 19917588.72 19917588.82 0.2665 0.2135 *

Moon 49823-11-29 17:02 G 19918869.11 19918869.21 19918869.31 0.2667 0.0928

Earth 49823-11-29 17:02 G 19918869.11 19918869.21 19918869.31 0.2660 0.0948 *

Mars 49826-01-29 01:26 G 19919660.44 19919660.56 19919660.67 0.1857 0.0444

Jupiter 49826-03-13 00:58 G 19919703.35 19919703.54 19919703.73 0.0507 0.0031

Moon 49830-11-22 17:31 G 19921419.20 19921419.23 19921419.25 0.2660 0.2557

Earth 49830-11-22 18:00 G 19921419.21 19921419.25 19921419.29 0.2663 0.2441 *

Jupiter 49831-11-11 16:48 G 19921773.07 19921773.20 19921773.32 0.0520 0.0046

Saturn 49832-03-18 23:17 G 19921901.36 19921901.47 19921901.60 0.0262 0.0202

Saturn 49832-06-15 20:38 G 19921990.17 19921990.36 19921990.55 0.0262 0.0021

Saturn 49832-09-12 17:46 G 19922079.09 19922079.24 19922079.40 0.0262 0.0161

Earth 49833-05-31 12:58 G 19922339.88 19922340.04 19922340.20 0.2671 0.0504

Moon 49833-05-31 13:26 G 19922339.90 19922340.06 19922340.23 0.2664 0.0569 *

Mars 49835-06-21 10:19 G 19923090.83 19923090.93 19923091.03 0.1850 0.0836

Earth 49836-12-01 10:19 G 19923619.86 19923619.93 19923619.99 0.2659 0.2134

Moon 49836-12-01 10:48 G 19923619.89 19923619.95 19923620.01 0.2664 0.2212 *

Jupiter 49837-12-29 20:53 G 19924013.20 19924013.37 19924013.54 0.0506 0.0192

Jupiter 49843-08-30 21:07 G 19926083.26 19926083.38 19926083.51 0.0520 0.0114

Moon 49843-11-25 10:34 G 19926169.85 19926169.94 19926170.04 0.2663 0.1257

Earth 49843-11-25 11:17 G 19926169.88 19926169.97 19926170.07 0.2662 0.1227 *

Jupiter 49843-11-28 01:26 G 19926172.52 19926172.56 19926172.59 0.0517 0.0494

Saturn 49846-07-21 02:38 G 19927138.51 19927138.61 19927138.71 0.0301 0.0182

Saturn 49846-10-17 14:53 G 19927226.99 19927227.12 19927227.25 0.0300 0.0007

Saturn 49847-01-14 03:07 G 19927315.53 19927315.63 19927315.73 0.0300 0.0180

Jupiter 49849-10-17 16:48 G 19928323.10 19928323.20 19928323.31 0.0506 0.0415

Jupiter 49850-01-16 06:29 G 19928413.71 19928413.77 19928413.84 0.0508 0.0472

Uranus 49853-07-15 23:17 G 19929690.42 19929690.47 19929690.54 0.0140 0.0124

Uranus 49853-10-12 02:38 G 19929778.53 19929778.61 19929778.70 0.0140 0.0103

Uranus 49854-01-08 06:00 G 19929866.65 19929866.75 19929866.85 0.0140 0.0082

Uranus 49854-04-06 09:07 G 19929954.77 19929954.88 19929955.00 0.0140 0.0062

Uranus 49854-07-03 12:29 G 19930042.90 19930043.02 19930043.15 0.0140 0.0041

Uranus 49854-09-29 15:50 G 19930131.03 19930131.16 19930131.29 0.0140 0.0020

Uranus 49854-12-26 18:58 G 19930219.16 19930219.29 19930219.43 0.0140 0.0005

Uranus 49855-03-24 22:19 G 19930307.30 19930307.43 19930307.56 0.0140 0.0022

Jupiter 49855-06-19 01:41 G 19930393.47 19930393.57 19930393.68 0.0520 0.0266

Uranus 49855-06-21 01:41 G 19930395.44 19930395.57 19930395.69 0.0141 0.0043

Jupiter 49855-09-16 06:00 G 19930482.66 19930482.75 19930482.84 0.0518 0.0344

Uranus 49855-09-17 05:02 G 19930483.59 19930483.71 19930483.82 0.0141 0.0064

Uranus 49855-12-14 08:10 G 19930571.74 19930571.84 19930571.95 0.0141 0.0085

Uranus 49856-03-11 11:31 G 19930659.90 19930659.98 19930660.06 0.0141 0.0106

Uranus 49856-06-07 14:53 G 19930748.06 19930748.12 19930748.17 0.0141 0.0127

Moon 49856-11-27 04:19 G 19930920.57 19930920.68 19930920.79 0.2667 0.0121

Earth 49856-11-27 04:34 G 19930920.59 19930920.69 19930920.80 0.2661 0.0080 *

Mars 49857-01-05 21:07 G 19930960.21 19930960.38 19930960.55 0.1675 0.0096

Venus 49858-05-12 08:24 G 19931451.77 19931451.85 19931451.92 0.3688 0.2300

Venus 49861-02-17 18:43 G 19932464.14 19932464.28 19932464.43 0.3682 0.1698

Saturn 49861-08-05 22:48 G 19932633.41 19932633.45 19932633.52 0.0261 0.0248

Saturn 49861-11-02 20:10 G 19932722.16 19932722.34 19932722.53 0.0261 0.0068

Jupiter 49861-11-04 02:38 G 19932723.45 19932723.61 19932723.78 0.0508 0.0252

Saturn 49862-01-30 17:31 G 19932811.05 19932811.23 19932811.40 0.0262 0.0113

Venus 49863-11-25 23:17 G 19933475.37 19933475.47 19933475.57 0.3688 0.0089

Mars 49865-07-30 01:12 G 19934087.44 19934087.55 19934087.66 0.1857 0.0589

Mars 49866-05-28 21:07 G 19934390.32 19934390.38 19934390.45 0.1681 0.1534

Earth 49866-05-29 10:48 G 19934390.84 19934390.95 19934391.07 0.2670 0.1852

Moon 49866-05-29 12:00 G 19934390.89 19934391.00 19934391.12 0.2664 0.1814 *

Jupiter 49867-04-07 05:46 G 19934703.68 19934703.74 19934703.82 0.0521 0.0429

Jupiter 49867-07-05 10:19 G 19934792.81 19934792.93 19934793.05 0.0518 0.0186

Venus 49869-06-10 14:24 G 19935499.02 19935499.10 19935499.18 0.3688 0.2172

Earth 49869-11-29 21:50 G 19935671.31 19935671.41 19935671.51 0.2660 0.1178

Moon 49869-11-29 21:50 G 19935671.32 19935671.41 19935671.51 0.2667 0.1234 *

Neptune 49872-10-21 01:41 G 19936727.54 19936727.57 19936727.63 0.0089 0.0083

Neptune 49873-01-17 03:07 G 19936815.57 19936815.63 19936815.70 0.0089 0.0075

Neptune 49873-04-15 04:34 G 19936903.60 19936903.69 19936903.77 0.0089 0.0067

Neptune 49873-07-12 05:31 G 19936991.65 19936991.73 19936991.84 0.0089 0.0060

Jupiter 49873-08-22 22:48 G 19937033.26 19937033.45 19937033.63 0.0507 0.0030

Neptune 49873-10-08 06:58 G 19937079.69 19937079.79 19937079.90 0.0089 0.0052

Neptune 49874-01-04 08:24 G 19937167.74 19937167.85 19937167.96 0.0089 0.0044

Neptune 49874-04-02 09:22 G 19937255.78 19937255.89 19937256.02 0.0089 0.0037

Neptune 49874-06-29 10:48 G 19937343.83 19937343.95 19937344.08 0.0089 0.0029

Neptune 49874-09-25 12:14 G 19937431.88 19937432.01 19937432.14 0.0089 0.0021

Mars 49874-12-20 10:19 G 19937517.82 19937517.93 19937518.04 0.1851 0.0683

Neptune 49874-12-22 13:26 G 19937519.93 19937520.06 19937520.19 0.0089 0.0013

Neptune 49875-03-20 14:38 G 19937607.98 19937608.11 19937608.24 0.0089 0.0006

Neptune 49875-06-16 15:50 G 19937696.03 19937696.16 19937696.30 0.0089 0.0004

Neptune 49875-09-12 17:17 G 19937784.09 19937784.22 19937784.35 0.0089 0.0010

Saturn 49875-12-08 05:17 G 19937870.64 19937870.72 19937870.81 0.0301 0.0225

Neptune 49875-12-09 18:29 G 19937872.14 19937872.27 19937872.40 0.0089 0.0018

Saturn 49876-03-05 17:46 G 19937959.11 19937959.24 19937959.37 0.0300 0.0042

Neptune 49876-03-06 19:41 G 19937960.20 19937960.32 19937960.45 0.0089 0.0025

Saturn 49876-06-02 06:00 G 19938047.64 19938047.75 19938047.86 0.0300 0.0139

Neptune 49876-06-02 20:53 G 19938048.25 19938048.37 19938048.50 0.0089 0.0033

Neptune 49876-08-29 22:05 G 19938136.31 19938136.42 19938136.54 0.0089 0.0041

Moon 49876-11-22 22:05 G 19938221.37 19938221.42 19938221.48 0.2661 0.2262

Earth 49876-11-22 22:48 G 19938221.39 19938221.45 19938221.51 0.2663 0.2206 *

Neptune 49876-11-25 23:17 G 19938224.37 19938224.47 19938224.59 0.0089 0.0049

Neptune 49877-02-22 00:43 G 19938312.43 19938312.53 19938312.63 0.0089 0.0056

Neptune 49877-05-21 01:55 G 19938400.50 19938400.58 19938400.68 0.0089 0.0064

Neptune 49877-08-17 03:07 G 19938488.56 19938488.63 19938488.71 0.0089 0.0071

Neptune 49877-11-13 04:34 G 19938576.63 19938576.69 19938576.75 0.0089 0.0079

Neptune 49878-02-09 05:31 G 19938664.72 19938664.73 19938664.77 0.0089 0.0087

Jupiter 49879-04-23 14:53 G 19939102.99 19939103.12 19939103.24 0.0519 0.0035

Moon 49879-06-01 20:10 G 19939142.18 19939142.34 19939142.49 0.2665 0.1082

Earth 49879-06-01 19:55 G 19939142.18 19939142.33 19939142.48 0.2671 0.1026 *

Earth 49882-12-02 14:53 G 19940422.08 19940422.12 19940422.17 0.2659 0.2362

Moon 49882-12-02 15:36 G 19940422.11 19940422.15 19940422.19 0.2663 0.2427 *

Jupiter 49885-06-10 18:14 G 19941343.09 19941343.26 19941343.43 0.0506 0.0203

Moon 49889-11-25 15:36 G 19942972.05 19942972.15 19942972.24 0.2664 0.1129

Earth 49889-11-25 16:05 G 19942972.07 19942972.17 19942972.27 0.2662 0.0989 *

Jupiter 49891-02-09 19:12 G 19943413.18 19943413.30 19943413.42 0.0520 0.0126

Saturn 49891-03-22 21:36 G 19943454.22 19943454.40 19943454.58 0.0262 0.0101

Jupiter 49891-05-09 23:17 G 19943502.43 19943502.47 19943502.52 0.0518 0.0482

Saturn 49891-06-19 18:43 G 19943543.10 19943543.28 19943543.47 0.0262 0.0081

Uranus 49893-11-16 10:05 G 19944423.82 19944423.92 19944424.05 0.0138 0.0113

Uranus 49894-02-12 18:14 G 19944512.11 19944512.26 19944512.43 0.0138 0.0082

Uranus 49894-05-12 02:10 G 19944600.42 19944600.59 19944600.79 0.0138 0.0053

Uranus 49894-08-08 10:34 G 19944688.74 19944688.94 19944689.13 0.0138 0.0021

Uranus 49894-11-04 18:29 G 19944777.08 19944777.27 19944777.47 0.0138 0.0009

Uranus 49895-02-01 02:24 G 19944865.42 19944865.60 19944865.80 0.0138 0.0039

Uranus 49895-04-30 10:19 G 19944953.77 19944953.93 19944954.11 0.0138 0.0069

Uranus 49895-07-27 18:29 G 19945042.14 19945042.27 19945042.41 0.0138 0.0099

Uranus 49895-10-24 02:10 G 19945130.54 19945130.59 19945130.67 0.0138 0.0129

Mars 49896-07-06 21:50 G 19945387.25 19945387.41 19945387.57 0.1675 0.0331

Jupiter 49897-03-29 14:10 G 19945652.99 19945653.09 19945653.19 0.0505 0.0425

Jupiter 49897-06-28 03:22 G 19945743.57 19945743.64 19945743.73 0.0508 0.0460

Moon 49902-11-29 09:07 G 19947722.77 19947722.88 19947722.98 0.2668 0.0242

Earth 49902-11-29 09:22 G 19947722.78 19947722.89 19947723.00 0.2661 0.0214 *

Jupiter 49902-11-29 23:46 G 19947723.38 19947723.49 19947723.59 0.0521 0.0281

Jupiter 49903-02-27 03:50 G 19947812.57 19947812.66 19947812.76 0.0518 0.0331

Mars 49905-01-29 01:12 G 19948514.45 19948514.55 19948514.66 0.1857 0.0751

Saturn 49905-04-27 08:38 G 19948602.80 19948602.86 19948602.93 0.0301 0.0259

Saturn 49905-07-24 21:07 G 19948691.25 19948691.38 19948691.50 0.0300 0.0076

Saturn 49905-10-21 09:22 G 19948779.77 19948779.89 19948780.01 0.0300 0.0105

Mars 49905-11-27 21:50 G 19948817.31 19948817.41 19948817.52 0.1681 0.1294

Saturn 49906-01-17 21:36 G 19948868.36 19948868.40 19948868.43 0.0300 0.0284

Jupiter 49909-04-16 23:17 G 19950053.30 19950053.47 19950053.63 0.0508 0.0230

Earth 49912-05-30 17:46 G 19951193.10 19951193.24 19951193.38 0.2670 0.1334

Moon 49912-05-30 18:58 G 19951193.14 19951193.29 19951193.44 0.2664 0.1089 *

Mars 49914-06-21 10:19 G 19951944.82 19951944.93 19951945.04 0.1850 0.0519

Jupiter 49914-09-18 04:19 G 19952033.61 19952033.68 19952033.75 0.0521 0.0433

Jupiter 49914-12-16 08:38 G 19952122.74 19952122.86 19952122.98 0.0518 0.0182

Venus 49914-12-18 05:31 G 19952124.64 19952124.73 19952124.82 0.3688 0.1477

Earth 49915-12-02 02:38 G 19952473.52 19952473.61 19952473.70 0.2660 0.1407

Moon 49915-12-02 02:53 G 19952473.53 19952473.62 19952473.71 0.2666 0.1395 *

Venus 49917-09-25 21:36 G 19953137.25 19953137.40 19953137.56 0.3683 0.1263

Pluto 49918-01-28 08:10 G 19953261.82 19953261.84 19953261.89 0.0068 0.0066

Pluto 49918-04-26 08:53 G 19953349.80 19953349.87 19953349.96 0.0068 0.0055

Pluto 49918-07-23 09:36 G 19953437.80 19953437.90 19953438.00 0.0068 0.0044

Pluto 49918-10-19 09:50 G 19953525.81 19953525.91 19953526.04 0.0068 0.0034

Pluto 49919-01-15 10:34 G 19953613.82 19953613.94 19953614.07 0.0068 0.0023

Pluto 49919-04-13 11:17 G 19953701.84 19953701.97 19953702.10 0.0068 0.0012

Pluto 49919-07-10 11:46 G 19953789.86 19953789.99 19953790.13 0.0068 0.0002

Pluto 49919-10-06 12:29 G 19953877.88 19953878.02 19953878.15 0.0068 0.0009

Pluto 49920-01-02 12:43 G 19953965.91 19953966.03 19953966.17 0.0068 0.0021

Pluto 49920-03-30 13:12 G 19954053.94 19954054.05 19954054.19 0.0069 0.0032

Pluto 49920-06-26 14:10 G 19954141.98 19954142.09 19954142.19 0.0069 0.0042

Venus 49920-07-02 20:38 G 19954148.26 19954148.36 19954148.46 0.3688 0.0766

Saturn 49920-08-09 21:07 G 19954186.23 19954186.38 19954186.54 0.0261 0.0147

Pluto 49920-09-22 14:38 G 19954230.03 19954230.11 19954230.20 0.0069 0.0053

Saturn 49920-11-06 18:29 G 19954275.08 19954275.27 19954275.46 0.0261 0.0034

Pluto 49920-12-19 15:07 G 19954318.09 19954318.13 19954318.18 0.0069 0.0064

Jupiter 49921-02-02 19:26 G 19954363.12 19954363.31 19954363.50 0.0507 0.0011

Saturn 49921-02-03 15:36 G 19954364.05 19954364.15 19954364.26 0.0262 0.0216

Moon 49922-11-25 02:53 G 19955023.55 19955023.62 19955023.69 0.2661 0.2076

Earth 49922-11-25 03:36 G 19955023.58 19955023.65 19955023.72 0.2663 0.1972 *

Mars 49923-11-11 19:26 G 19955375.28 19955375.31 19955375.33 0.1844 0.1783

Moon 49925-06-03 02:38 G 19955944.47 19955944.61 19955944.75 0.2665 0.1443

Earth 49925-06-03 02:53 G 19955944.49 19955944.62 19955944.75 0.2671 0.1557 *

Venus 49926-01-16 11:31 G 19956171.93 19956171.98 19956172.04 0.3688 0.2994

Jupiter 49926-10-04 12:58 G 19956432.91 19956433.04 19956433.16 0.0519 0.0023

Earth 49928-12-03 19:41 G 19957224.30 19957224.32 19957224.34 0.2659 0.2586

Jupiter 49932-11-21 15:36 G 19958672.98 19958673.15 19958673.32 0.0506 0.0209

Saturn 49934-12-11 23:46 G 19959423.37 19959423.49 19959423.61 0.0301 0.0122

Saturn 49935-03-10 12:00 G 19959511.87 19959512.00 19959512.13 0.0300 0.0060

Saturn 49935-06-07 00:14 G 19959600.43 19959600.51 19959600.58 0.0300 0.0240

Moon 49935-11-27 20:24 G 19959774.24 19959774.35 19959774.45 0.2666 0.0798

Earth 49935-11-27 20:53 G 19959774.27 19959774.37 19959774.47 0.2662 0.0758 *

Mars 49936-01-06 22:48 G 19959814.29 19959814.45 19959814.60 0.1675 0.0583

Uranus 49937-05-10 03:50 G 19960303.65 19960303.66 19960303.70 0.0140 0.0136

Uranus 49937-08-06 07:12 G 19960391.74 19960391.80 19960391.88 0.0140 0.0115

Uranus 49937-11-02 10:34 G 19960479.85 19960479.94 19960480.04 0.0140 0.0094

Uranus 49938-01-29 13:41 G 19960567.97 19960568.07 19960568.19 0.0140 0.0074

Uranus 49938-04-27 17:02 G 19960656.10 19960656.21 19960656.34 0.0140 0.0053

Jupiter 49938-07-23 17:17 G 19960743.10 19960743.22 19960743.34 0.0520 0.0134

Uranus 49938-07-24 20:24 G 19960744.23 19960744.35 19960744.48 0.0140 0.0032

Jupiter 49938-10-20 21:22 G 19960832.35 19960832.39 19960832.44 0.0517 0.0473

Uranus 49938-10-20 23:46 G 19960832.36 19960832.49 19960832.62 0.0140 0.0011 *

Uranus 49939-01-17 03:07 G 19960920.50 19960920.63 19960920.76 0.0140 0.0011

Uranus 49939-04-15 06:14 G 19961008.63 19961008.76 19961008.89 0.0140 0.0031

Uranus 49939-07-12 09:36 G 19961096.78 19961096.90 19961097.02 0.0141 0.0052

Uranus 49939-10-08 12:43 G 19961184.92 19961185.03 19961185.15 0.0141 0.0073

Uranus 49940-01-04 16:05 G 19961273.08 19961273.17 19961273.27 0.0141 0.0094

Uranus 49940-04-01 19:26 G 19961361.24 19961361.31 19961361.38 0.0141 0.0115

Uranus 49940-06-28 22:34 G 19961449.42 19961449.44 19961449.48 0.0141 0.0136

Mars 49944-07-30 01:12 G 19962941.45 19962941.55 19962941.65 0.1857 0.0912

Jupiter 49944-09-09 11:31 G 19962982.88 19962982.98 19962983.07 0.0505 0.0433

Jupiter 49944-12-09 00:58 G 19963073.46 19963073.54 19963073.62 0.0508 0.0450

Mars 49945-05-28 22:34 G 19963244.31 19963244.44 19963244.57 0.1680 0.1064

Moon 49948-11-29 13:55 G 19964524.97 19964525.08 19964525.19 0.2667 0.0362

Earth 49948-11-29 14:10 G 19964524.98 19964525.09 19964525.20 0.2661 0.0448 *

Saturn 49949-12-27 22:19 G 19964918.29 19964918.43 19964918.57 0.0262 0.0181

Saturn 49950-03-26 19:26 G 19965007.12 19965007.31 19965007.50 0.0262 0.0003

Jupiter 49950-05-11 21:36 G 19965053.30 19965053.40 19965053.50 0.0521 0.0294

Saturn 49950-06-23 16:34 G 19965096.06 19965096.19 19965096.34 0.0262 0.0181

Jupiter 49950-08-09 01:55 G 19965142.48 19965142.58 19965142.68 0.0519 0.0319

Mars 49953-12-20 10:19 G 19966371.82 19966371.93 19966372.04 0.1850 0.0354

Jupiter 49956-09-26 20:38 G 19967383.19 19967383.36 19967383.53 0.0507 0.0223

Neptune 49957-03-21 02:38 G 19967558.56 19967558.61 19967558.70 0.0088 0.0083

Neptune 49957-06-17 06:14 G 19967646.67 19967646.76 19967646.90 0.0088 0.0072

Neptune 49957-09-13 10:19 G 19967734.79 19967734.93 19967735.08 0.0088 0.0060

Neptune 49957-12-10 13:55 G 19967822.93 19967823.08 19967823.26 0.0088 0.0049

Neptune 49958-03-08 18:00 G 19967911.07 19967911.25 19967911.43 0.0088 0.0037

Earth 49958-06-01 00:43 G 19967995.37 19967995.53 19967995.68 0.2670 0.0821

Moon 49958-06-01 01:41 G 19967995.41 19967995.57 19967995.73 0.2664 0.0817 *

Neptune 49958-06-04 21:36 G 19967999.21 19967999.40 19967999.59 0.0088 0.0025

Neptune 49958-09-01 01:26 G 19968087.36 19968087.56 19968087.75 0.0088 0.0014

Neptune 49958-11-28 05:02 G 19968175.52 19968175.71 19968175.91 0.0088 0.0003

Neptune 49959-02-24 08:53 G 19968263.67 19968263.87 19968264.07 0.0088 0.0009

Neptune 49959-05-23 12:29 G 19968351.83 19968352.02 19968352.22 0.0088 0.0021

Neptune 49959-08-19 16:05 G 19968440.00 19968440.17 19968440.37 0.0089 0.0033

Neptune 49959-11-15 19:55 G 19968528.17 19968528.33 19968528.51 0.0089 0.0044

Neptune 49960-02-11 23:31 G 19968616.34 19968616.48 19968616.65 0.0089 0.0056

Neptune 49960-05-10 03:22 G 19968704.52 19968704.64 19968704.78 0.0089 0.0067

Neptune 49960-08-06 06:58 G 19968792.72 19968792.79 19968792.90 0.0089 0.0079

Earth 49961-12-02 07:12 G 19969275.72 19969275.80 19969275.89 0.2660 0.1636

Moon 49961-12-02 07:41 G 19969275.74 19969275.82 19969275.90 0.2666 0.1749 *

Jupiter 49962-02-28 02:10 G 19969363.53 19969363.59 19969363.65 0.0521 0.0449

Jupiter 49962-05-28 06:29 G 19969452.66 19969452.77 19969452.89 0.0519 0.0169

Mars 49963-05-12 19:26 G 19969802.26 19969802.31 19969802.36 0.1844 0.1620

Saturn 49964-04-30 03:07 G 19970155.52 19970155.63 19970155.74 0.0300 0.0155

Saturn 49964-07-27 15:22 G 19970244.01 19970244.14 19970244.27 0.0300 0.0027

Saturn 49964-10-24 03:36 G 19970332.56 19970332.65 19970332.74 0.0300 0.0207

Venus 49966-01-08 11:46 G 19970773.93 19970773.99 19970774.06 0.3688 0.2894

Jupiter 49968-07-15 16:05 G 19971692.98 19971693.17 19971693.36 0.0507 0.0010

Moon 49968-11-25 07:41 G 19971825.74 19971825.82 19971825.90 0.2662 0.1821

Earth 49968-11-25 08:24 G 19971825.77 19971825.85 19971825.93 0.2663 0.1738 *

Moon 49971-06-04 09:07 G 19972746.79 19972746.88 19972746.98 0.2665 0.2113

Earth 49971-06-04 09:50 G 19972746.81 19972746.91 19972747.01 0.2671 0.2082 *

Venus 49971-07-25 02:53 G 19972797.52 19972797.62 19972797.72 0.3688 0.0650

Jupiter 49974-03-16 11:17 G 19973762.85 19973762.97 19973763.10 0.0519 0.0022

Mars 49975-07-07 23:17 G 19974241.32 19974241.47 19974241.61 0.1675 0.0799

Venus 49977-02-06 17:46 G 19974821.15 19974821.24 19974821.33 0.3688 0.1591

Uranus 49977-09-10 10:19 G 19975036.88 19975036.93 19975036.99 0.0138 0.0132

Uranus 49977-12-07 18:14 G 19975125.14 19975125.26 19975125.40 0.0138 0.0102

Uranus 49978-03-06 02:24 G 19975213.44 19975213.60 19975213.77 0.0138 0.0071

Uranus 49978-06-02 10:19 G 19975301.75 19975301.93 19975302.13 0.0138 0.0041

Uranus 49978-08-29 18:29 G 19975390.08 19975390.27 19975390.47 0.0138 0.0011

Uranus 49978-11-26 02:24 G 19975478.41 19975478.60 19975478.80 0.0138 0.0020

Uranus 49979-02-22 10:19 G 19975566.76 19975566.93 19975567.13 0.0138 0.0050

Saturn 49979-05-16 22:05 G 19975650.33 19975650.42 19975650.51 0.0261 0.0227

Uranus 49979-05-21 18:14 G 19975655.11 19975655.26 19975655.44 0.0138 0.0080

Saturn 49979-08-13 19:12 G 19975739.11 19975739.30 19975739.49 0.0261 0.0049

Uranus 49979-08-18 02:10 G 19975743.49 19975743.59 19975743.73 0.0138 0.0110

Saturn 49979-11-10 16:19 G 19975828.01 19975828.18 19975828.35 0.0261 0.0133

Jupiter 49980-05-03 12:29 G 19976002.85 19976003.02 19976003.19 0.0506 0.0225

Moon 49981-11-28 01:12 G 19976576.44 19976576.55 19976576.65 0.2667 0.0621

Earth 49981-11-28 01:41 G 19976576.46 19976576.57 19976576.67 0.2662 0.0525 *

Mars 49984-01-29 01:12 G 19977368.45 19977368.55 19977368.64 0.1857 0.1069

Mars 49984-11-26 23:17 G 19977671.32 19977671.47 19977671.61 0.1681 0.0827

Jupiter 49986-01-02 15:36 G 19978073.03 19978073.15 19978073.27 0.0520 0.0140

Jupiter 49986-04-01 19:41 G 19978162.27 19978162.32 19978162.38 0.0517 0.0466

Jupiter 49992-02-20 08:53 G 19980312.78 19980312.87 19980312.96 0.0506 0.0440

Jupiter 49992-05-20 22:34 G 19980403.35 19980403.44 19980403.53 0.0508 0.0446

Mars 49993-06-20 10:19 G 19980798.81 19980798.93 19980799.04 0.1851 0.0216

Saturn 49993-09-17 05:17 G 19980887.63 19980887.72 19980887.81 0.0301 0.0207

Saturn 49993-12-14 17:31 G 19980976.11 19980976.23 19980976.36 0.0301 0.0026

Saturn 49994-03-13 05:46 G 19981064.63 19981064.74 19981064.85 0.0300 0.0157

Moon 49994-11-30 18:43 G 19981327.18 19981327.28 19981327.39 0.2667 0.0711

Earth 49994-11-30 18:58 G 19981327.18 19981327.29 19981327.39 0.2661 0.0681 *

Jupiter 49997-10-21 19:55 G 19982383.23 19982383.33 19982383.44 0.0521 0.0298

Jupiter 49998-01-19 00:14 G 19982472.41 19982472.51 19982472.61 0.0518 0.0314

51ST MILLENNIUM CE

This is a list of transits of Mercury in the 51st millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	**50002-11-10 19:26**	**G**	**19984229.24**	**19984229.31**	**19984229.38**	**0.1844**	**0.1448**	
Jupiter	**50004-03-08 18:14**	**G**	**19984713.09**	**19984713.26**	**19984713.43**	**0.0507**	**0.0217**	
Earth	**50004-06-01 07:41**	**G**	**19984797.66**	**19984797.82**	**19984797.98**	**0.2670**	**0.0309**	
Moon	**50004-06-01 08:10**	**G**	**19984797.67**	**19984797.84**	**19984798.00**	**0.2664**	**0.0160**	*
Pluto	**50004-11-18 12:14**	**G**	**19984967.88**	**19984968.01**	**19984968.14**	**0.0076**	**0.0056**	
Pluto	**50005-02-14 14:24**	**G**	**19985055.94**	**19985056.10**	**19985056.28**	**0.0076**	**0.0035**	
Pluto	**50005-05-13 17:02**	**G**	**19985144.02**	**19985144.21**	**19985144.40**	**0.0076**	**0.0014**	
Pluto	**50005-08-09 19:26**	**G**	**19985232.12**	**19985232.31**	**19985232.50**	**0.0076**	**0.0007**	
Pluto	**50005-11-05 21:36**	**G**	**19985320.23**	**19985320.40**	**19985320.58**	**0.0076**	**0.0028**	
Pluto	**50006-02-02 00:00**	**G**	**19985408.36**	**19985408.50**	**19985408.65**	**0.0076**	**0.0048**	
Pluto	**50006-05-01 02:10**	**G**	**19985496.53**	**19985496.59**	**19985496.68**	**0.0075**	**0.0069**	
Earth	**50007-12-03 12:00**	**G**	**19986077.93**	**19986078.00**	**19986078.08**	**0.2660**	**0.1863**	
Moon	**50007-12-03 12:29**	**G**	**19986077.94**	**19986078.02**	**19986078.10**	**0.2666**	**0.1862**	*
Saturn	**50008-12-30 19:41**	**G**	**19986471.14**	**19986471.32**	**19986471.50**	**0.0262**	**0.0087**	
Saturn	**50009-03-29 16:48**	**G**	**19986560.03**	**19986560.20**	**19986560.38**	**0.0262**	**0.0095**	
Jupiter	**50009-08-10 00:14**	**G**	**19986693.45**	**19986693.51**	**19986693.57**	**0.0522**	**0.0460**	
Jupiter	**50009-11-07 04:48**	**G**	**19986782.58**	**19986782.70**	**19986782.82**	**0.0519**	**0.0158**	
Moon	**50014-11-26 12:29**	**G**	**19988627.93**	**19988628.02**	**19988628.11**	**0.2663**	**0.1563**	
Earth	**50014-11-26 13:12**	**G**	**19988627.96**	**19988628.05**	**19988628.13**	**0.2663**	**0.1503**	*

Mars 50015-01-06 00:00 G 19988668.37 19988668.50 19988668.63 0.1675 0.1038

Jupiter 50015-12-26 14:10 G 19989022.90 19989023.09 19989023.27 0.0506 0.0012

Moon 50017-06-04 16:05 G 19989549.10 19989549.17 19989549.24 0.2665 0.2411

Earth 50017-06-04 16:34 G 19989549.16 19989549.19 19989549.23 0.2672 0.2603 *

Uranus 50021-05-30 12:00 G 19991004.95 19991005.00 19991005.05 0.0140 0.0127

Jupiter 50021-08-26 09:22 G 19991092.77 19991092.89 19991093.02 0.0520 0.0011

Uranus 50021-08-26 15:07 G 19991093.06 19991093.13 19991093.22 0.0140 0.0107

Uranus 50021-11-22 18:29 G 19991181.17 19991181.27 19991181.38 0.0140 0.0086

Uranus 50022-02-18 21:50 G 19991269.30 19991269.41 19991269.53 0.0140 0.0065

Uranus 50022-05-18 00:58 G 19991357.42 19991357.54 19991357.67 0.0140 0.0045

Uranus 50022-08-14 04:19 G 19991445.55 19991445.68 19991445.81 0.0140 0.0024

Venus 50022-08-15 09:07 G 19991446.80 19991446.88 19991446.96 0.3688 0.2067

Uranus 50022-11-10 07:41 G 19991533.69 19991533.82 19991533.95 0.0140 0.0003

Saturn 50023-02-04 08:24 G 19991619.78 19991619.85 19991619.92 0.0301 0.0245

Uranus 50023-02-06 10:48 G 19991621.83 19991621.95 19991622.08 0.0140 0.0019

Saturn 50023-05-03 20:38 G 19991708.24 19991708.36 19991708.49 0.0300 0.0062

Uranus 50023-05-05 14:10 G 19991709.97 19991710.09 19991710.22 0.0140 0.0039

Mars 50023-07-30 01:12 G 19991795.46 19991795.55 19991795.63 0.1857 0.1223

Saturn 50023-07-31 08:53 G 19991796.76 19991796.87 19991796.99 0.0300 0.0120

Uranus 50023-08-01 17:17 G 19991798.11 19991798.22 19991798.34 0.0141 0.0061

Saturn 50023-10-27 21:07 G 19991885.38 19991885.38 19991885.39 0.0300 0.0299

Uranus 50023-10-28 20:38 G 19991886.26 19991886.36 19991886.47 0.0141 0.0081

Uranus 50024-01-25 00:00 G 19991974.41 19991974.50 19991974.59 0.0141 0.0102

Uranus 50024-04-22 03:22 G 19992062.58 19992062.64 19992062.70 0.0141 0.0123

Mars 50024-05-27 23:46 G 19992098.34 19992098.49 19992098.65 0.1681 0.0598

Venus 50025-05-23 15:07 G 19992458.99 19992459.13 19992459.27 0.3682 0.1921

Jupiter 50027-10-14 09:22 G 19993332.73 19993332.89 19993333.06 0.0506 0.0241

Moon 50027-11-29 06:00 G 19993378.64 19993378.75 19993378.85 0.2667 0.0366

Earth 50027-11-29 06:29 G 19993378.66 19993378.77 19993378.87 0.2662 0.0307 *

Venus 50028-02-29 00:14 G 19993470.41 19993470.51 19993470.61 0.3688 0.0226

Mars 50032-12-19 10:19 G 19995225.81 19995225.93 19995226.04 0.1850 0.0040

Jupiter 50033-06-14 14:10 G 19995402.97 19995403.09 19995403.21 0.0520 0.0141

Jupiter 50033-09-11 18:14 G 19995492.21 19995492.26 19995492.32 0.0517 0.0467

Venus 50033-09-13 15:07 G 19995494.05 19995494.13 19995494.20 0.3688 0.2401

Earth 50037-05-30 05:31 G 19996848.72 19996848.73 19996848.75 0.2669 0.2643

Moon 50037-05-30 06:58 G 19996848.73 19996848.79 19996848.86 0.2665 0.2433 *

Neptune 50037-07-19 00:58 G 19996898.50 19996898.54 19996898.59 0.0089 0.0082

Neptune 50037-10-15 01:55 G 19996986.53 19996986.58 19996986.67 0.0089 0.0075

Neptune 50038-01-11 03:22 G 19997074.56 19997074.64 19997074.73 0.0089 0.0067

Neptune 50038-04-09 04:48 G 19997162.61 19997162.70 19997162.80 0.0089 0.0059

Saturn 50038-05-19 18:58 G 19997203.13 19997203.29 19997203.46 0.0261 0.0136

Neptune 50038-07-06 05:46 G 19997250.65 19997250.74 19997250.86 0.0089 0.0052

Saturn 50038-08-16 16:05 G 19997291.99 19997292.17 19997292.37 0.0261 0.0045

Neptune 50038-10-02 07:12 G 19997338.70 19997338.80 19997338.92 0.0089 0.0044

Saturn 50038-11-13 13:26 G 19997380.97 19997381.06 19997381.16 0.0261 0.0226

Neptune 50038-12-29 08:38 G 19997426.74 19997426.86 19997426.98 0.0089 0.0036

Neptune 50039-03-27 09:50 G 19997514.79 19997514.91 19997515.04 0.0089 0.0028

Neptune 50039-06-23 11:02 G 19997602.84 19997602.96 19997603.09 0.0089 0.0021

Jupiter 50039-08-02 05:46 G 19997642.67 19997642.74 19997642.83 0.0506 0.0454

Neptune 50039-09-19 12:29 G 19997690.89 19997691.02 19997691.15 0.0089 0.0013

Jupiter 50039-10-31 19:26 G 19997733.22 19997733.31 19997733.41 0.0508 0.0433

Neptune 50039-12-16 13:41 G 19997778.94 19997779.07 19997779.20 0.0089 0.0005

Neptune 50040-03-13 15:07 G 19997866.99 19997867.13 19997867.26 0.0089 0.0004

Neptune 50040-06-09 16:19 G 19997955.05 19997955.18 19997955.31 0.0089 0.0010

Neptune 50040-09-05 17:31 G 19998043.10 19998043.23 19998043.36 0.0089 0.0018

Earth 50040-11-30 23:31 G 19998129.38 19998129.48 19998129.58 0.2661 0.0908

Moon 50040-11-30 23:46 G 19998129.39 19998129.49 19998129.59 0.2667 0.0895 *

Neptune 50040-12-02 18:43 G 19998131.16 19998131.28 19998131.41 0.0089 0.0026

Neptune 50041-02-28 19:55 G 19998219.22 19998219.33 19998219.46 0.0089 0.0034

Neptune 50041-05-27 21:22 G 19998307.27 19998307.39 19998307.50 0.0089 0.0041

Neptune 50041-08-23 22:19 G 19998395.33 19998395.43 19998395.55 0.0089 0.0049

Neptune 50041-11-19 23:31 G 19998483.39 19998483.48 19998483.59 0.0089 0.0057

Neptune 50042-02-16 00:58 G 19998571.46 19998571.54 19998571.64 0.0089 0.0064

Mars 50042-05-11 19:12 G 19998656.22 19998656.30 19998656.38 0.1844 0.1308

Neptune 50042-05-15 02:10 G 19998659.52 19998659.59 19998659.67 0.0089 0.0072

Neptune 50042-08-11 03:22 G 19998747.60 19998747.64 19998747.71 0.0089 0.0080

Neptune 50042-11-07 04:48 G 19998835.68 19998835.70 19998835.73 0.0089 0.0087

Jupiter 50045-04-02 18:29 G 19999713.17 19999713.27 19999713.37 0.0520 0.0299

Jupiter 50045-06-30 22:48 G 19999802.35 19999802.45 19999802.55 0.0518 0.0312

Moon 50047-11-25 00:00 G 20000679.46 20000679.50 20000679.53 0.2660 0.2493

Earth 50047-11-25 00:29 G 20000679.49 20000679.52 20000679.56 0.2664 0.2484 *

Moon 50050-06-02 14:38 G 20001599.94 20001600.11 20001600.27 0.2664 0.0153

Earth 50050-06-02 14:24 G 20001599.94 20001600.10 20001600.26 0.2670 0.0210 *

Jupiter 50051-08-19 15:50 G 20002042.99 20002043.16 20002043.33 0.0507 0.0215

Saturn 50052-09-19 22:34 G 20002440.32 20002440.44 20002440.56 0.0301 0.0119

Saturn 50052-12-17 10:48 G 20002528.83 20002528.95 20002529.08 0.0301 0.0064

Saturn 50053-03-15 23:02 G 20002617.39 20002617.46 20002617.53 0.0300 0.0244

Earth 50053-12-03 16:48 G 20002880.14 20002880.20 20002880.27 0.2660 0.2089

Moon 50053-12-03 17:17 G 20002880.16 20002880.22 20002880.28 0.2665 0.2209 *

Mars 50054-07-07 00:43 G 20003095.42 20003095.53 20003095.64 0.1675 0.1282

Jupiter 50057-01-19 22:48 G 20004023.39 20004023.45 20004023.51 0.0521 0.0458

Jupiter 50057-04-19 03:22 G 20004112.52 20004112.64 20004112.76 0.0519 0.0159

Moon 50060-11-26 17:17 G 20005430.13 20005430.22 20005430.31 0.2665 0.1396

Earth 50060-11-26 18:00 G 20005430.15 20005430.25 20005430.34 0.2663 0.1267 *

Uranus 50061-09-30 18:14 G 20005738.18 20005738.26 20005738.37 0.0138 0.0122

Uranus 50061-12-28 02:38 G 20005826.46 20005826.61 20005826.76 0.0138 0.0091

Uranus 50062-03-26 10:34 G 20005914.77 20005914.94 20005915.12 0.0138 0.0061

Uranus 50062-06-22 18:43 G 20006003.09 20006003.28 20006003.47 0.0138 0.0030

Uranus 50062-09-19 02:38 G 20006091.42 20006091.61 20006091.81 0.0138 0.0003

Uranus 50062-12-16 10:48 G 20006179.76 20006179.95 20006180.14 0.0138 0.0030

Mars 50063-01-28 01:12 G 20006222.47 20006222.55 20006222.62 0.1857 0.1394

Uranus 50063-03-14 18:29 G 20006268.11 20006268.27 20006268.46 0.0138 0.0061

Jupiter 50063-06-07 12:00 G 20006352.81 20006353.00 20006353.19 0.0506 0.0009

Uranus 50063-06-11 02:24 G 20006356.47 20006356.60 20006356.76 0.0138 0.0091

Uranus 50063-09-07 10:19 G 20006444.86 20006444.93 20006445.04 0.0138 0.0121

Mars 50063-11-27 00:43 G 20006525.36 20006525.53 20006525.69 0.1680 0.0359

Saturn 50067-10-06 19:12 G 20007935.16 20007935.30 20007935.44 0.0261 0.0179

Saturn 50068-01-03 16:19 G 20008023.98 20008024.18 20008024.37 0.0261 0.0004

Saturn 50068-04-01 13:12 G 20008112.92 20008113.05 20008113.20 0.0262 0.0183

Jupiter 50069-02-05 07:41 G 20008422.69 20008422.82 20008422.95 0.0520 0.0004

Mars 50072-06-19 10:19 G 20009652.81 20009652.93 20009653.04 0.1850 0.0130

Venus 50073-09-05 15:22 G 20010096.11 20010096.14 20010096.17 0.3689 0.3487

Moon 50073-11-29 10:48 G 20010180.84 20010180.95 20010181.05 0.2667 0.0131

Earth 50073-11-29 11:02 G 20010180.86 20010180.96 20010181.07 0.2662 0.0110 *

Jupiter 50075-03-26 07:55 G 20010662.67 20010662.83 20010663.00 0.0506 0.0231

Venus 50079-03-22 06:29 G 20012119.67 20012119.77 20012119.86 0.3688 0.1251

Jupiter 50080-11-24 12:29 G 20012732.90 20012733.02 20012733.14 0.0520 0.0149

Jupiter 50081-02-21 16:34 G 20012822.14 20012822.19 20012822.25 0.0518 0.0459

Mars 50081-11-09 19:12 G 20013083.21 20013083.30 20013083.39 0.1844 0.1143

Venus 50081-12-28 18:00 G 20013132.09 20013132.25 20013132.41 0.3683 0.1068

Saturn 50082-02-07 01:12 G 20013172.45 20013172.55 20013172.66 0.0301 0.0161

Saturn 50082-05-06 13:41 G 20013260.94 20013261.07 20013261.20 0.0300 0.0022

Saturn 50082-08-03 01:55 G 20013349.48 20013349.58 20013349.67 0.0300 0.0202

Earth 50083-05-31 12:29 G 20013650.93 20013651.02 20013651.12 0.2669 0.2131

Moon 50083-05-31 13:41 G 20013650.96 20013651.07 20013651.18 0.2664 0.1988 *

Venus 50084-10-04 21:22 G 20014143.29 20014143.39 20014143.49 0.3688 0.0982

Earth 50086-12-02 04:19 G 20014931.58 20014931.68 20014931.78 0.2661 0.1134

Moon 50086-12-02 04:34 G 20014931.59 20014931.69 20014931.78 0.2668 0.1175 *

Jupiter 50087-01-12 03:22 G 20014972.56 20014972.64 20014972.71 0.0506 0.0463

Jupiter 50087-04-12 16:48 G 20015063.10 20015063.20 20015063.30 0.0508 0.0422

Venus 50090-04-20 12:29 G 20016166.97 20016167.02 20016167.06 0.3688 0.3228

Jupiter 50092-09-12 17:17 G 20017043.12 20017043.22 20017043.32 0.0521 0.0295

Jupiter 50092-12-10 21:36 G 20017132.30 20017132.40 20017132.50 0.0518 0.0317

Moon 50093-11-25 04:48 G 20017481.65 20017481.70 20017481.74 0.2661 0.2381

Earth 50093-11-25 05:17 G 20017481.66 20017481.72 20017481.78 0.2664 0.2247 *

Mars 50094-01-05 01:12 G 20017522.48 20017522.55 20017522.63 0.1675 0.1505

Moon 50096-06-02 21:22 G 20018402.23 20018402.39 20018402.55 0.2663 0.0775

Earth 50096-06-02 21:22 G 20018402.23 20018402.39 20018402.55 0.2670 0.0727 *

Saturn 50097-02-22 18:14 G 20018667.18 20018667.26 20018667.36 0.0261 0.0229

Saturn 50097-05-22 15:22 G 20018755.95 20018756.14 20018756.33 0.0261 0.0050

Saturn 50097-08-19 12:29 G 20018844.85 20018845.02 20018845.19 0.0261 0.0130

Jupiter 50099-01-29 13:12 G 20019372.88 20019373.05 20019373.22 0.0508 0.0206

Earth 50099-12-04 21:36 G 20019682.35 20019682.40 20019682.45 0.2660 0.2316

Moon 50099-12-04 22:05 G 20019682.37 20019682.42 20019682.47 0.2663 0.2355 *

Mars 50102-07-30 00:58 G 20020649.48 20020649.54 20020649.60 0.1857 0.1540

Mars 50103-05-29 01:12 G 20020952.39 20020952.55 20020952.72 0.1681 0.0128

Jupiter 50104-07-02 21:36 G 20021353.34 20021353.40 20021353.46 0.0521 0.0453

Jupiter 50104-09-30 02:10 G 20021442.47 20021442.59 20021442.71 0.0519 0.0163

Uranus 50105-03-24 16:48 G 20021618.19 20021618.20 20021618.21 0.0140 0.0139

Uranus 50105-06-20 19:55 G 20021706.27 20021706.33 20021706.40 0.0140 0.0118

Uranus 50105-09-16 23:17 G 20021794.38 20021794.47 20021794.57 0.0140 0.0098

Uranus 50105-12-14 02:38 G 20021882.50 20021882.61 20021882.72 0.0140 0.0077

Uranus 50106-03-12 05:46 G 20021970.63 20021970.74 20021970.86 0.0140 0.0056

Uranus 50106-06-08 09:07 G 20022058.75 20022058.88 20022059.01 0.0140 0.0035

Uranus 50106-09-04 12:29 G 20022146.89 20022147.02 20022147.15 0.0140 0.0015

Moon 50106-11-28 22:05 G 20022232.32 20022232.42 20022232.51 0.2665 0.1069

Earth 50106-11-28 22:34 G 20022232.34 20022232.44 20022232.54 0.2663 0.1035 *

Uranus 50106-12-01 15:36 G 20022235.02 20022235.15 20022235.28 0.0140 0.0007

Uranus 50107-02-27 18:58 G 20022323.16 20022323.29 20022323.42 0.0140 0.0027

Uranus 50107-05-26 22:05 G 20022411.30 20022411.42 20022411.55 0.0141 0.0048

Uranus 50107-08-23 01:26 G 20022499.45 20022499.56 20022499.67 0.0141 0.0069

Uranus 50107-11-19 04:34 G 20022587.60 20022587.69 20022587.80 0.0141 0.0091

Uranus 50108-02-15 07:41 G 20022675.76 20022675.82 20022675.91 0.0141 0.0112

Uranus 50108-05-13 11:17 G 20022763.93 20022763.97 20022764.01 0.0141 0.0132

Jupiter 50110-11-18 09:50 G 20023682.72 20023682.91 20023683.10 0.0507 0.0011

Saturn 50111-06-28 02:24 G 20023904.52 20023904.60 20023904.69 0.0301 0.0227

Saturn 50111-09-24 14:53 G 20023992.99 20023993.12 20023993.25 0.0301 0.0043

Mars 50111-12-20 10:05 G 20024079.81 20024079.92 20024080.04 0.1851 0.0281

Saturn 50111-12-22 03:07 G 20024081.52 20024081.63 20024081.75 0.0301 0.0140

Jupiter 50116-07-19 06:29 G 20025752.65 20025752.77 20025752.90 0.0519 0.0021

Moon 50119-12-01 15:36 G 20026983.04 20026983.15 20026983.26 0.2667 0.0127

Earth 50119-12-01 15:50 G 20026983.05 20026983.16 20026983.27 0.2662 0.0186 *

Mars 50121-05-11 19:26 G 20027510.21 20027510.31 20027510.40 0.1844 0.0976

Neptune 50121-12-16 23:17 G 20027729.42 20027729.47 20027729.56 0.0088 0.0082

Neptune 50122-03-15 03:22 G 20027817.53 20027817.64 20027817.77 0.0088 0.0071

Neptune 50122-06-11 06:58 G 20027905.66 20027905.79 20027905.95 0.0088 0.0059

Jupiter 50122-09-06 06:14 G 20027992.60 20027992.76 20027992.93 0.0506 0.0226

Neptune 50122-09-07 10:48 G 20027993.79 20027993.95 20027994.12 0.0088 0.0048

Neptune 50122-12-04 14:24 G 20028081.93 20028082.10 20028082.29 0.0088 0.0037

Neptune 50123-03-02 18:29 G 20028170.08 20028170.27 20028170.46 0.0088 0.0025

Neptune 50123-05-29 22:05 G 20028258.23 20028258.42 20028258.62 0.0088 0.0013

Neptune 50123-08-26 01:55 G 20028346.38 20028346.58 20028346.78 0.0088 0.0002

Neptune 50123-11-22 05:31 G 20028434.54 20028434.73 20028434.93 0.0088 0.0010

Neptune 50124-02-18 09:07 G 20028522.70 20028522.88 20028523.08 0.0088 0.0022

Neptune 50124-05-16 12:58 G 20028610.86 20028611.04 20028611.23 0.0088 0.0033

Neptune 50124-08-12 16:34 G 20028699.03 20028699.19 20028699.37 0.0088 0.0045

Neptune 50124-11-08 20:24 G 20028787.20 20028787.35 20028787.51 0.0088 0.0056

Neptune 50125-02-05 00:00 G 20028875.39 20028875.50 20028875.64 0.0088 0.0068

Neptune 50125-05-04 03:50 G 20028963.58 20028963.66 20028963.76 0.0089 0.0079

Saturn 50126-10-10 14:38 G 20029487.94 20029488.11 20029488.29 0.0261 0.0099

Saturn 50127-01-07 11:46 G 20029576.81 20029576.99 20029577.17 0.0261 0.0081

Jupiter 50128-05-07 10:48 G 20030062.83 20030062.95 20030063.08 0.0520 0.0151

Jupiter 50128-08-04 15:07 G 20030152.08 20030152.13 20030152.19 0.0518 0.0458

Earth 50129-06-01 19:12 G 20030453.18 20030453.30 20030453.43 0.2669 0.1627

Moon 50129-06-01 20:10 G 20030453.21 20030453.34 20030453.47 0.2664 0.1569 *

Venus 50130-04-13 12:43 G 20030768.96 20030769.03 20030769.10 0.3688 0.2669

Earth 50132-12-03 09:07 G 20031733.79 20031733.88 20031733.97 0.2661 0.1367

Moon 50132-12-03 09:22 G 20031733.80 20031733.89 20031733.98 0.2667 0.1400 *

Jupiter 50134-06-25 02:24 G 20032302.52 20032302.60 20032302.69 0.0505 0.0444

Jupiter 50134-09-23 16:05 G 20032393.07 20032393.17 20032393.26 0.0508 0.0440

Venus 50135-10-28 03:36 G 20032792.55 20032792.65 20032792.75 0.3688 0.0440

Moon 50139-11-27 09:22 G 20034283.82 20034283.89 20034283.96 0.2663 0.2045

Earth 50139-11-27 10:05 G 20034283.85 20034283.92 20034283.99 0.2664 0.2014 *

Jupiter 50140-02-24 15:36 G 20034373.05 20034373.15 20034373.26 0.0521 0.0300

Jupiter 50140-05-23 19:55 G 20034462.24 20034462.33 20034462.43 0.0518 0.0314

Saturn 50140-11-14 04:48 G 20034636.65 20034636.70 20034636.76 0.0301 0.0274

Saturn 50141-02-10 17:17 G 20034725.10 20034725.22 20034725.35 0.0301 0.0090

Saturn 50141-05-10 05:46 G 20034813.61 20034813.74 20034813.86 0.0300 0.0093

Venus 50141-05-12 18:43 G 20034816.19 20034816.28 20034816.36 0.3688 0.1811

Saturn 50141-08-06 17:46 G 20034902.19 20034902.24 20034902.30 0.0300 0.0273

Mars 50142-01-28 00:58 G 20035076.50 20035076.54 20035076.59 0.1857 0.1702

Moon 50142-06-05 04:05 G 20035204.53 20035204.67 20035204.82 0.2664 0.1197

Earth 50142-06-05 04:19 G 20035204.53 20035204.68 20035204.82 0.2671 0.1248 *

Mars 50142-11-27 01:55 G 20035379.42 20035379.58 20035379.75 0.1680 0.0114

Uranus 50145-07-25 19:26 G 20036351.30 20036351.31 20036351.33 0.0138 0.0138

Uranus 50145-10-22 03:22 G 20036439.53 20036439.64 20036439.77 0.0138 0.0108

Earth 50145-12-06 02:24 G 20036484.57 20036484.60 20036484.62 0.2659 0.2545

Moon 50145-12-06 02:53 G 20036484.62 20036484.62 20036484.63 0.2661 0.2648 *

Uranus 50146-01-18 11:17 G 20036527.82 20036527.97 20036528.15 0.0138 0.0078

Uranus 50146-04-16 19:26 G 20036616.13 20036616.31 20036616.50 0.0138 0.0047

Jupiter 50146-07-12 10:48 G 20036702.78 20036702.95 20036703.13 0.0507 0.0201

Uranus 50146-07-14 03:36 G 20036704.46 20036704.65 20036704.85 0.0138 0.0017

Uranus 50146-10-10 11:46 G 20036792.79 20036792.99 20036793.18 0.0138 0.0014

Uranus 50147-01-06 19:41 G 20036881.14 20036881.32 20036881.51 0.0138 0.0044

Uranus 50147-04-05 03:36 G 20036969.49 20036969.65 20036969.82 0.0138 0.0074

Uranus 50147-07-02 11:31 G 20037057.86 20037057.98 20037058.12 0.0138 0.0104

Uranus 50147-09-28 19:26 G 20037146.28 20037146.31 20037146.37 0.0138 0.0134

Mars 50151-06-20 10:05 G 20038506.81 20038506.92 20038507.04 0.1850 0.0440

Jupiter 50151-12-13 20:38 G 20038683.30 20038683.36 20038683.42 0.0521 0.0445

Jupiter 50152-03-12 00:58 G 20038772.43 20038772.54 20038772.66 0.0519 0.0173

Mars 50152-04-18 01:55 G 20038809.51 20038809.58 20038809.64 0.1686 0.1540

Moon 50152-11-29 02:38 G 20039034.51 20039034.61 20039034.72 0.2665 0.0948

Earth 50152-11-29 03:22 G 20039034.54 20039034.64 20039034.74 0.2663 0.0797 *

Saturn 50156-02-27 13:41 G 20040219.92 20040220.07 20040220.23 0.0260 0.0152

Saturn 50156-05-26 10:34 G 20040308.75 20040308.94 20040309.14 0.0261 0.0028

Saturn 50156-08-23 07:41 G 20040397.71 20040397.82 20040397.94 0.0261 0.0207

Jupiter 50158-04-30 07:26 G 20041012.63 20041012.81 20041013.00 0.0507 0.0016

Mars 50160-11-09 19:12 G 20041937.20 20041937.30 20041937.40 0.1844 0.0828

Jupiter 50163-12-30 05:31 G 20043082.61 20043082.73 20043082.86 0.0519 0.0023

Pluto 50164-12-11 20:24 G 20043430.31 20043430.35 20043430.40 0.0068 0.0064

Pluto 50165-03-09 20:38 G 20043518.30 20043518.36 20043518.46 0.0068 0.0054

Pluto 50165-06-05 21:22 G 20043606.30 20043606.39 20043606.51 0.0068 0.0043

Pluto 50165-09-01 22:05 G 20043694.31 20043694.42 20043694.55 0.0068 0.0032

Pluto 50165-11-28 22:48 G 20043782.32 20043782.45 20043782.58 0.0068 0.0021

Moon 50165-12-01 20:38 G 20043785.25 20043785.36 20043785.46 0.2668 0.0452

Earth 50165-12-01 20:38 G 20043785.25 20043785.36 20043785.47 0.2661 0.0403 *

Pluto 50166-02-24 23:17 G 20043870.34 20043870.47 20043870.61 0.0068 0.0011

Pluto 50166-05-24 00:00 G 20043958.36 20043958.50 20043958.63 0.0068 0.0001

Pluto 50166-08-20 00:29 G 20044046.39 20044046.52 20044046.65 0.0068 0.0011

Pluto 50166-11-16 00:58 G 20044134.42 20044134.54 20044134.67 0.0068 0.0022

Pluto 50167-02-12 01:26 G 20044222.45 20044222.56 20044222.69 0.0069 0.0033

Pluto 50167-05-11 02:10 G 20044310.49 20044310.59 20044310.70 0.0069 0.0044

Pluto 50167-08-07 02:38 G 20044398.54 20044398.61 20044398.70 0.0069 0.0055

Pluto 50167-11-03 03:07 G 20044486.61 20044486.63 20044486.68 0.0069 0.0066

Jupiter 50170-02-16 04:19 G 20045322.52 20045322.68 20045322.85 0.0506 0.0223

Saturn 50170-06-30 18:00 G 20045457.15 20045457.25 20045457.36 0.0301 0.0161

Saturn 50170-09-27 06:29 G 20045545.64 20045545.77 20045545.90 0.0301 0.0023

Saturn 50170-12-24 18:43 G 20045634.19 20045634.28 20045634.38 0.0301 0.0204

Earth 50175-06-03 02:10 G 20047255.45 20047255.59 20047255.74 0.2670 0.1110

Moon 50175-06-03 02:53 G 20047255.46 20047255.62 20047255.77 0.2663 0.0963 *

Jupiter 50175-10-18 10:05 G 20047392.80 20047392.92 20047393.04 0.0520 0.0136

Jupiter 50176-01-15 14:10 G 20047482.04 20047482.09 20047482.14 0.0517 0.0471

Earth 50178-12-04 13:55 G 20048535.99 20048536.08 20048536.16 0.2660 0.1594

Moon 50178-12-04 14:10 G 20048536.01 20048536.09 20048536.18 0.2666 0.1619 *

Jupiter 50181-12-05 00:58 G 20049632.46 20049632.54 20049632.64 0.0506 0.0435

Jupiter 50182-03-05 14:38 G 20049723.03 20049723.11 20049723.19 0.0508 0.0451

Mars 50182-05-28 02:38 G 20049806.45 20049806.61 20049806.77 0.1680 0.0341

Saturn 50185-07-16 12:29 G 20050951.90 20050952.02 20050952.14 0.0261 0.0206

Saturn 50185-10-13 09:22 G 20051040.70 20051040.89 20051041.08 0.0261 0.0028

Moon 50185-11-27 14:10 G 20051086.01 20051086.09 20051086.16 0.2664 0.1914

Earth 50185-11-27 14:53 G 20051086.04 20051086.12 20051086.20 0.2663 0.1777 *

Saturn 50186-01-10 06:14 G 20051129.62 20051129.76 20051129.93 0.0261 0.0154

Venus 50186-11-18 09:50 G 20051441.83 20051441.91 20051442.00 0.3688 0.1852

Jupiter 50187-08-06 14:24 G 20051703.00 20051703.10 20051703.20 0.0521 0.0296

Jupiter 50187-11-03 18:43 G 20051792.18 20051792.28 20051792.38 0.0518 0.0317

Moon 50188-06-05 10:48 G 20052006.82 20052006.95 20052007.07 0.2665 0.1704

Earth 50188-06-05 11:02 G 20052006.84 20052006.96 20052007.09 0.2671 0.1766 *

Uranus 50189-04-14 00:14 G 20052319.48 20052319.51 20052319.57 0.0140 0.0132

Uranus 50189-07-11 03:36 G 20052407.58 20052407.65 20052407.74 0.0140 0.0111

Venus 50189-08-26 11:31 G 20052453.85 20052453.98 20052454.11 0.3682 0.2097

Uranus 50189-10-07 06:58 G 20052495.70 20052495.79 20052495.89 0.0140 0.0090

Uranus 50190-01-03 10:19 G 20052583.82 20052583.93 20052584.04 0.0140 0.0069

Uranus 50190-04-01 13:26 G 20052671.94 20052672.06 20052672.19 0.0140 0.0049

Uranus 50190-06-28 16:48 G 20052760.07 20052760.20 20052760.33 0.0140 0.0028

Uranus 50190-09-24 20:10 G 20052848.21 20052848.34 20052848.47 0.0140 0.0007

Mars 50190-12-19 10:05 G 20052933.82 20052933.92 20052934.03 0.1850 0.0602

Uranus 50190-12-21 23:17 G 20052936.35 20052936.47 20052936.60 0.0140 0.0015

Uranus 50191-03-20 02:38 G 20053024.48 20053024.61 20053024.74 0.0140 0.0035

Uranus 50191-06-16 05:46 G 20053112.63 20053112.74 20053112.87 0.0141 0.0056

Uranus 50191-09-12 09:07 G 20053200.77 20053200.88 20053200.99 0.0141 0.0077

Mars 50191-10-18 02:38 G 20053236.51 20053236.61 20053236.72 0.1686 0.1294

Uranus 50191-12-09 12:14 G 20053288.93 20053289.01 20053289.11 0.0141 0.0098

Uranus 50192-03-06 15:36 G 20053377.09 20053377.15 20053377.22 0.0141 0.0119

Uranus 50192-06-02 18:43 G 20053465.28 20053465.28 20053465.31 0.0141 0.0140

Venus 50192-06-03 00:58 G 20053465.44 20053465.54 20053465.64 0.3688 0.0402

Jupiter 50193-12-22 10:34 G 20054032.78 20054032.94 20054033.11 0.0507 0.0228

Venus 50197-12-17 15:50 G 20055489.09 20055489.16 20055489.23 0.3687 0.2636

Moon 50198-11-30 07:41 G 20055836.71 20055836.82 20055836.92 0.2666 0.0591

Earth 50198-11-30 08:10 G 20055836.73 20055836.84 20055836.94 0.2662 0.0569 *

Jupiter 50199-05-25 19:12 G 20056013.24 20056013.30 20056013.36 0.0521 0.0444

Jupiter 50199-08-22 23:46 G 20056102.37 20056102.49 20056102.61 0.0519 0.0173

Saturn 50199-11-17 20:10 G 20056189.25 20056189.34 20056189.43 0.0301 0.0214

Saturn 50200-02-14 08:24 G 20056277.73 20056277.85 20056277.98 0.0301 0.0033

Mars 50200-05-11 19:12 G 20056364.19 20056364.30 20056364.41 0.1844 0.0664

Saturn 50200-05-13 20:53 G 20056366.26 20056366.37 20056366.48 0.0300 0.0151

Neptune 50202-04-17 00:00 G 20057069.45 20057069.50 20057069.55 0.0089 0.0082

Neptune 50202-07-14 01:12 G 20057157.49 20057157.55 20057157.63 0.0089 0.0074

Neptune 50202-10-10 02:24 G 20057245.52 20057245.60 20057245.69 0.0089 0.0067

Neptune 50203-01-06 03:36 G 20057333.57 20057333.65 20057333.76 0.0089 0.0059

Neptune 50203-04-04 05:02 G 20057421.61 20057421.71 20057421.82 0.0089 0.0051

Neptune 50203-07-01 06:29 G 20057509.66 20057509.77 20057509.88 0.0089 0.0043

Neptune 50203-09-27 07:26 G 20057597.70 20057597.81 20057597.94 0.0089 0.0036

Neptune 50203-12-24 08:53 G 20057685.75 20057685.87 20057686.00 0.0089 0.0028

Neptune 50204-03-21 10:19 G 20057773.80 20057773.93 20057774.06 0.0089 0.0020

Neptune 50204-06-17 11:31 G 20057861.85 20057861.98 20057862.11 0.0089 0.0012

Neptune 50204-09-13 12:43 G 20057949.90 20057950.03 20057950.16 0.0089 0.0005

Neptune 50204-12-10 14:10 G 20058037.96 20058038.09 20058038.22 0.0089 0.0004

Neptune 50205-03-08 15:22 G 20058126.01 20058126.14 20058126.27 0.0089 0.0011

Neptune 50205-06-04 16:34 G 20058214.06 20058214.19 20058214.32 0.0089 0.0019

Neptune 50205-08-31 17:46 G 20058302.12 20058302.24 20058302.37 0.0089 0.0027

Jupiter 50205-10-11 05:31 G 20058342.54 20058342.73 20058342.92 0.0507 0.0013

Neptune 50205-11-27 19:12 G 20058390.18 20058390.30 20058390.42 0.0089 0.0034

Neptune 50206-02-23 20:10 G 20058478.24 20058478.34 20058478.47 0.0089 0.0042

Neptune 50206-05-22 21:22 G 20058566.30 20058566.39 20058566.51 0.0089 0.0050

Neptune 50206-08-18 22:48 G 20058654.36 20058654.45 20058654.56 0.0089 0.0057

Neptune 50206-11-15 00:00 G 20058742.42 20058742.50 20058742.60 0.0089 0.0065

Neptune 50207-02-11 01:12 G 20058830.49 20058830.55 20058830.64 0.0089 0.0073

Neptune 50207-05-10 02:38 G 20058918.56 20058918.61 20058918.67 0.0089 0.0080

Neptune 50207-08-06 03:50 G 20059006.65 20059006.66 20059006.68 0.0089 0.0088

Jupiter 50211-06-12 04:48 G 20060412.57 20060412.70 20060412.82 0.0519 0.0031

Moon 50211-12-04 01:26 G 20060587.45 20060587.56 20060587.66 0.2668 0.0578

Earth 50211-12-04 01:26 G 20060587.45 20060587.56 20060587.66 0.2661 0.0635 *

Saturn 50214-12-04 11:02 G 20061683.96 20061683.96 20061683.98 0.0260 0.0259

Saturn 50215-03-03 07:55 G 20061772.66 20061772.83 20061773.02 0.0260 0.0083

Saturn 50215-05-31 05:02 G 20061861.53 20061861.71 20061861.89 0.0261 0.0097

Jupiter 50217-07-30 02:24 G 20062652.43 20062652.60 20062652.77 0.0506 0.0222

Earth 50221-06-04 09:07 G 20064057.72 20064057.88 20064058.04 0.2670 0.0596

Moon 50221-06-04 09:36 G 20064057.74 20064057.90 20064058.06 0.2663 0.0632 *

Mars 50221-11-27 03:22 G 20064233.48 20064233.64 20064233.80 0.1680 0.0583

Jupiter 50223-03-31 09:22 G 20064722.77 20064722.89 20064723.01 0.0520 0.0122

Jupiter 50223-06-28 13:26 G 20064812.02 20064812.06 20064812.10 0.0517 0.0484

Earth 50224-12-05 18:43 G 20065338.20 20065338.28 20065338.35 0.2660 0.1823

Moon 50224-12-05 18:58 G 20065338.22 20065338.29 20065338.37 0.2665 0.1928 *

Saturn 50229-04-06 20:38 G 20066921.33 20066921.36 20066921.39 0.0302 0.0291

Jupiter 50229-05-17 23:31 G 20066962.38 20066962.48 20066962.58 0.0506 0.0428

Saturn 50229-07-04 08:53 G 20067009.75 20067009.87 20067010.00 0.0301 0.0107

Uranus 50229-08-16 03:50 G 20067052.59 20067052.66 20067052.75 0.0139 0.0126

Jupiter 50229-08-16 12:58 G 20067052.97 20067053.04 20067053.12 0.0508 0.0459

Saturn 50229-09-30 21:22 G 20067098.27 20067098.39 20067098.51 0.0301 0.0077

Uranus 50229-11-12 12:00 G 20067140.87 20067141.00 20067141.15 0.0138 0.0095

Saturn 50229-12-28 09:36 G 20067186.84 20067186.90 20067186.96 0.0301 0.0258

Uranus 50230-02-08 19:55 G 20067229.17 20067229.33 20067229.51 0.0138 0.0065

Uranus 50230-05-08 04:05 G 20067317.49 20067317.67 20067317.87 0.0138 0.0035

Mars 50230-06-20 10:05 G 20067360.81 20067360.92 20067361.02 0.1851 0.0746

Uranus 50230-08-04 12:14 G 20067405.81 20067406.01 20067406.21 0.0138 0.0004

Uranus 50230-10-31 20:10 G 20067494.15 20067494.34 20067494.54 0.0138 0.0026

Uranus 50231-01-28 04:05 G 20067582.50 20067582.67 20067582.86 0.0138 0.0056

Mars 50231-04-19 03:22 G 20067663.51 20067663.64 20067663.77 0.1686 0.1055

Uranus 50231-04-26 12:14 G 20067670.86 20067671.01 20067671.17 0.0138 0.0086

Uranus 50231-07-23 20:10 G 20067759.24 20067759.34 20067759.45 0.0138 0.0116

Moon 50231-11-29 18:58 G 20067888.20 20067888.29 20067888.37 0.2664 0.1601

Earth 50231-11-29 19:41 G 20067888.23 20067888.32 20067888.40 0.2663 0.1544 *

Moon 50234-06-07 17:17 G 20068809.13 20068809.22 20068809.31 0.2665 0.2234

Earth 50234-06-07 18:14 G 20068809.17 20068809.26 20068809.34 0.2671 0.2293 *

Jupiter 50235-01-17 13:55 G 20069032.97 20069033.08 20069033.18 0.0520 0.0277

Jupiter 50235-04-16 18:14 G 20069122.16 20069122.26 20069122.35 0.0518 0.0335

Venus 50237-12-10 16:19 G 20070091.13 20070091.18 20070091.22 0.3688 0.3266

Mars 50239-11-10 19:12 G 20070791.19 20070791.30 20070791.41 0.1844 0.0498

Jupiter 50241-06-04 09:36 G 20071362.74 20071362.90 20071363.07 0.0507 0.0242

Venus 50243-06-26 07:12 G 20072114.70 20072114.80 20072114.90 0.3688 0.1026

Saturn 50244-07-20 06:14 G 20072504.60 20072504.76 20072504.93 0.0261 0.0141

Saturn 50244-10-17 03:22 G 20072593.45 20072593.64 20072593.83 0.0261 0.0038

Moon 50244-12-01 12:29 G 20072638.91 20072639.02 20072639.13 0.2667 0.0437

Earth 50244-12-01 12:58 G 20072638.93 20072639.04 20072639.14 0.2662 0.0342 *

Saturn 50245-01-14 00:29 G 20072682.41 20072682.52 20072682.62 0.0261 0.0218

Venus 50246-04-03 14:24 G 20073126.94 20073127.10 20073127.26 0.3683 0.0861

Jupiter 50246-11-05 18:00 G 20073343.19 20073343.25 20073343.32 0.0521 0.0437

Jupiter 50247-02-02 22:34 G 20073432.32 20073432.44 20073432.56 0.0519 0.0180

Venus 50249-01-08 22:05 G 20074138.33 20074138.42 20074138.52 0.3688 0.1227

Mars 50249-04-02 04:19 G 20074221.65 20074221.68 20074221.71 0.1837 0.1749

Pluto 50251-07-07 19:26 G 20075048.30 20075048.31 20075048.36 0.0076 0.0076

Pluto 50251-10-03 22:05 G 20075136.30 20075136.42 20075136.56 0.0076 0.0054

Pluto 50251-12-31 00:29 G 20075224.36 20075224.52 20075224.70 0.0076 0.0034

Pluto 50252-03-28 03:07 G 20075312.44 20075312.63 20075312.82 0.0076 0.0012

Pluto 50252-06-24 05:31 G 20075400.54 20075400.73 20075400.92 0.0076 0.0008

Pluto 50252-09-20 07:41 G 20075488.65 20075488.82 20075489.00 0.0076 0.0029

Pluto 50252-12-17 09:50 G 20075576.79 20075576.91 20075577.07 0.0076 0.0050

Pluto 50253-03-15 12:29 G 20075664.96 20075665.02 20075665.09 0.0075 0.0070

Jupiter 50253-03-23 05:46 G 20075672.56 20075672.74 20075672.93 0.0507 0.0024

Venus 50254-07-25 13:12 G 20076162.02 20076162.05 20076162.08 0.3687 0.3465

Earth 50257-12-04 06:14 G 20077389.65 20077389.76 20077389.86 0.2661 0.0866

Moon 50257-12-04 06:14 G 20077389.66 20077389.76 20077389.86 0.2668 0.0928 *

Saturn 50258-11-21 10:48 G 20077741.84 20077741.95 20077742.06 0.0301 0.0163

Jupiter 50258-11-22 03:36 G 20077742.52 20077742.65 20077742.78 0.0519 0.0036

Saturn 50259-02-17 23:17 G 20077830.34 20077830.47 20077830.59 0.0301 0.0023

Saturn 50259-05-17 11:17 G 20077918.88 20077918.97 20077919.07 0.0300 0.0203

Mars 50261-05-28 04:05 G 20078660.52 20078660.67 20078660.81 0.1680 0.0813

Moon 50264-11-27 06:29 G 20079939.75 20079939.77 20079939.78 0.2662 0.2625

Earth 50264-11-27 06:58 G 20079939.76 20079939.79 20079939.82 0.2664 0.2526 *

Jupiter 50265-01-09 00:43 G 20079982.36 20079982.53 20079982.70 0.0506 0.0216

Earth 50267-06-05 16:05 G 20080860.00 20080860.17 20080860.33 0.2670 0.0096

Moon 50267-06-05 16:19 G 20080860.01 20080860.18 20080860.34 0.2663 0.0058 *

Mars 50269-12-19 10:05 G 20081787.82 20081787.92 20081788.02 0.1850 0.0916

Jupiter 50270-09-10 08:38 G 20082052.74 20082052.86 20082052.99 0.0520 0.0107

Mars 50270-10-18 03:50 G 20082090.52 20082090.66 20082090.81 0.1686 0.0834

Earth 50270-12-06 23:17 G 20082140.41 20082140.47 20082140.54 0.2660 0.2047

Moon 50270-12-07 00:00 G 20082140.43 20082140.50 20082140.56 0.2664 0.2068 *

Jupiter 50270-12-08 12:43 G 20082142.01 20082142.03 20082142.06 0.0517 0.0501

Uranus 50273-05-05 07:55 G 20083020.78 20083020.83 20083020.90 0.0140 0.0125

Uranus 50273-08-01 11:17 G 20083108.89 20083108.97 20083109.06 0.0140 0.0104

Uranus 50273-10-28 14:38 G 20083197.01 20083197.11 20083197.22 0.0140 0.0083

Saturn 50273-12-07 04:48 G 20083236.59 20083236.70 20083236.84 0.0260 0.0195

Uranus 50274-01-24 17:46 G 20083285.13 20083285.24 20083285.36 0.0140 0.0063

Saturn 50274-03-06 01:55 G 20083325.39 20083325.58 20083325.77 0.0260 0.0017

Uranus 50274-04-22 21:07 G 20083373.26 20083373.38 20083373.51 0.0140 0.0042

Saturn 50274-06-02 22:48 G 20083414.31 20083414.45 20083414.61 0.0261 0.0162

Uranus 50274-07-20 00:29 G 20083461.39 20083461.52 20083461.65 0.0140 0.0021

Uranus 50274-10-16 03:36 G 20083549.52 20083549.65 20083549.78 0.0140 0.0004

Uranus 50275-01-12 06:58 G 20083637.66 20083637.79 20083637.92 0.0140 0.0021

Uranus 50275-04-10 10:19 G 20083725.80 20083725.93 20083726.05 0.0140 0.0042

Uranus 50275-07-07 13:26 G 20083813.95 20083814.06 20083814.18 0.0141 0.0062

Uranus 50275-10-03 16:34 G 20083902.09 20083902.19 20083902.30 0.0141 0.0084

Uranus 50275-12-30 19:55 G 20083990.25 20083990.33 20083990.42 0.0141 0.0104

Uranus 50276-03-27 23:17 G 20084078.41 20084078.47 20084078.53 0.0141 0.0125

Jupiter 50276-10-27 21:36 G 20084292.31 20084292.40 20084292.50 0.0506 0.0424

Jupiter 50277-01-26 11:17 G 20084382.89 20084382.97 20084383.04 0.0508 0.0463

Moon 50277-11-29 23:46 G 20084690.39 20084690.49 20084690.58 0.2664 0.1427

Earth 50277-11-30 00:14 G 20084690.42 20084690.51 20084690.61 0.2663 0.1313 *

Mars 50279-05-11 18:58 G 20085218.18 20085218.29 20085218.41 0.1844 0.0364

Moon 50280-06-08 00:00 G 20085611.46 20085611.50 20085611.53 0.2666 0.2591

Jupiter 50282-06-29 13:12 G 20086362.94 20086363.05 20086363.16 0.0520 0.0259

Jupiter 50282-09-26 17:31 G 20086452.14 20086452.23 20086452.32 0.0518 0.0352

Neptune 50286-09-13 20:38 G 20087900.29 20087900.36 20087900.45 0.0088 0.0081

Neptune 50286-12-11 00:14 G 20087988.40 20087988.51 20087988.65 0.0088 0.0069

Neptune 50287-03-09 04:19 G 20088076.53 20088076.68 20088076.83 0.0088 0.0058

Neptune 50287-06-05 07:41 G 20088164.67 20088164.82 20088165.00 0.0088 0.0047

Neptune 50287-09-01 11:17 G 20088252.81 20088252.97 20088253.17 0.0088 0.0036

Neptune 50287-11-28 15:22 G 20088340.95 20088341.14 20088341.33 0.0088 0.0024

Neptune 50288-02-24 18:58 G 20088429.10 20088429.29 20088429.49 0.0088 0.0013

Saturn 50288-04-09 11:02 G 20088473.88 20088473.96 20088474.03 0.0302 0.0243

Neptune 50288-05-22 22:48 G 20088517.26 20088517.45 20088517.65 0.0088 0.0002

Saturn 50288-07-06 23:17 G 20088562.35 20088562.47 20088562.60 0.0301 0.0059

Neptune 50288-08-19 02:24 G 20088605.41 20088605.60 20088605.81 0.0088 0.0012

Mars 50288-10-01 04:19 G 20088648.63 20088648.68 20088648.74 0.1837 0.1590

Saturn 50288-10-03 11:46 G 20088650.87 20088650.99 20088651.10 0.0301 0.0125

Jupiter 50288-11-14 08:10 G 20088692.68 20088692.84 20088693.00 0.0508 0.0252

Neptune 50288-11-15 06:14 G 20088693.57 20088693.76 20088693.96 0.0088 0.0022

Neptune 50289-02-11 10:05 G 20088781.74 20088781.92 20088782.10 0.0088 0.0034

Neptune 50289-05-10 13:26 G 20088869.91 20088870.06 20088870.24 0.0088 0.0046

Neptune 50289-08-06 17:02 G 20088958.08 20088958.21 20088958.38 0.0088 0.0058

Neptune 50289-11-02 20:53 G 20089046.26 20089046.37 20089046.51 0.0088 0.0069

Neptune 50290-01-30 00:29 G 20089134.46 20089134.52 20089134.62 0.0088 0.0081

Moon 50290-12-02 17:17 G 20089441.11 20089441.22 20089441.33 0.2668 0.0121

Earth 50290-12-02 17:46 G 20089441.13 20089441.24 20089441.34 0.2662 0.0139 *

Jupiter 50294-04-17 17:46 G 20090673.17 20090673.24 20090673.32 0.0521 0.0414

Jupiter 50294-07-15 22:05 G 20090762.31 20090762.42 20090762.54 0.0518 0.0202

Venus 50294-07-17 13:26 G 20090763.99 20090764.06 20090764.14 0.3688 0.2440

Venus 50300-01-31 04:34 G 20092787.59 20092787.69 20092787.79 0.3688 0.0252

Earth 50300-06-03 14:10 G 20092911.02 20092911.09 20092911.15 0.2669 0.2407

Moon 50300-06-03 15:07 G 20092911.04 20092911.13 20092911.22 0.2663 0.2202 *

Jupiter 50300-09-03 05:02 G 20093002.52 20093002.71 20093002.89 0.0507 0.0040

Mars 50300-11-27 04:48 G 20093087.57 20093087.70 20093087.83 0.1680 0.1050

Saturn 50303-04-27 02:53 G 20093968.59 20093968.62 20093968.65 0.0260 0.0256

Saturn 50303-07-24 23:46 G 20094057.31 20094057.49 20094057.67 0.0260 0.0079

Saturn 50303-10-21 20:53 G 20094146.19 20094146.37 20094146.54 0.0261 0.0100

Moon 50303-12-06 11:02 G 20094191.86 20094191.96 20094192.06 0.2667 0.1063

Earth 50303-12-06 11:02 G 20094191.86 20094191.96 20094192.05 0.2661 0.1100 *

Venus 50305-08-16 19:26 G 20094811.23 20094811.31 20094811.39 0.3688 0.2046

Jupiter 50306-05-05 02:38 G 20095072.48 20095072.61 20095072.73 0.0519 0.0046

Mars 50309-06-20 10:05 G 20096214.82 20096214.92 20096215.01 0.1850 0.1067

Mars 50310-04-19 04:34 G 20096517.54 20096517.69 20096517.85 0.1686 0.0597

Moon 50310-11-29 11:02 G 20096741.91 20096741.96 20096742.01 0.2662 0.2339

Earth 50310-11-29 11:46 G 20096741.94 20096741.99 20096742.04 0.2664 0.2291 *

Jupiter 50312-06-22 01:12 G 20097312.38 20097312.55 20097312.73 0.0506 0.0179

Moon 50313-06-06 22:48 G 20097662.29 20097662.45 20097662.62 0.2664 0.0330

Earth 50313-06-06 22:48 G 20097662.29 20097662.45 20097662.61 0.2670 0.0443 *

Uranus 50313-09-06 12:29 G 20097753.91 20097754.02 20097754.13 0.0139 0.0114

Uranus 50313-12-03 20:24 G 20097842.20 20097842.35 20097842.51 0.0138 0.0084

Uranus 50314-03-02 04:19 G 20097930.51 20097930.68 20097930.87 0.0138 0.0054

Uranus 50314-05-29 12:29 G 20098018.83 20098019.02 20098019.22 0.0138 0.0023

Uranus 50314-08-25 20:38 G 20098107.16 20098107.36 20098107.56 0.0138 0.0007

Uranus 50314-11-22 04:34 G 20098195.51 20098195.69 20098195.89 0.0138 0.0038

Uranus 50315-02-18 12:29 G 20098283.86 20098284.02 20098284.20 0.0138 0.0068

Uranus 50315-05-17 20:24 G 20098372.23 20098372.35 20098372.50 0.0138 0.0098

Uranus 50315-08-14 04:19 G 20098460.63 20098460.68 20098460.77 0.0138 0.0128

Earth 50316-12-08 04:05 G 20098942.62 20098942.67 20098942.72 0.2660 0.2272

Moon 50316-12-08 04:34 G 20098942.65 20098942.69 20098942.74 0.2664 0.2418 *

Saturn 50317-11-25 00:58 G 20099294.42 20099294.54 20099294.66 0.0301 0.0118

Jupiter 50318-02-21 07:26 G 20099382.69 20099382.81 20099382.94 0.0520 0.0101

Saturn 50318-02-21 13:12 G 20099382.93 20099383.05 20099383.18 0.0301 0.0065 *

Saturn 50318-05-21 01:26 G 20099471.49 20099471.56 20099471.64 0.0300 0.0247

Jupiter 50318-05-21 11:46 G 20099471.97 20099471.99 20099472.01 0.0517 0.0508

Mars 50318-11-10 19:12 G 20099645.18 20099645.30 20099645.41 0.1844 0.0193

Moon 50323-12-02 04:34 G 20101492.59 20101492.69 20101492.78 0.2665 0.1157

Earth 50323-12-02 05:02 G 20101492.61 20101492.71 20101492.81 0.2663 0.1075 *

Jupiter 50324-04-09 20:10 G 20101622.24 20101622.34 20101622.45 0.0506 0.0415

Jupiter 50324-07-09 09:50 G 20101712.84 20101712.91 20101712.98 0.0508 0.0472

Mars 50328-04-02 04:19 G 20103075.61 20103075.68 20103075.75 0.1837 0.1428

Jupiter 50329-12-10 12:29 G 20103692.91 20103693.02 20103693.14 0.0521 0.0243

Jupiter 50330-03-09 16:48 G 20103782.12 20103782.20 20103782.29 0.0518 0.0370

Saturn 50332-12-10 22:34 G 20104789.28 20104789.44 20104789.61 0.0260 0.0133

Saturn 50333-03-09 19:26 G 20104878.12 20104878.31 20104878.50 0.0260 0.0045

Saturn 50333-06-06 16:19 G 20104967.09 20104967.18 20104967.28 0.0261 0.0225

Jupiter 50336-04-27 06:29 G 20106022.61 20106022.77 20106022.93 0.0508 0.0258

Moon 50336-12-03 22:05 G 20106243.31 20106243.42 20106243.53 0.2669 0.0085

Earth 50336-12-03 22:19 G 20106243.33 20106243.43 20106243.54 0.2662 0.0163 *

Mars 50340-05-28 05:17 G 20107514.62 20107514.72 20107514.83 0.1680 0.1284

Jupiter 50341-09-28 17:17 G 20108003.14 20108003.22 20108003.30 0.0521 0.0396

Jupiter 50341-12-26 21:36 G 20108092.29 20108092.40 20108092.52 0.0518 0.0220

Earth 50346-06-04 20:53 G 20109713.26 20109713.37 20109713.49 0.2669 0.1896

Moon 50346-06-04 21:50 G 20109713.30 20109713.41 20109713.53 0.2663 0.1846 *

Saturn 50347-04-14 00:58 G 20110026.45 20110026.54 20110026.64 0.0302 0.0198

Saturn 50347-07-11 13:26 G 20110114.93 20110115.06 20110115.19 0.0301 0.0016

Saturn 50347-10-08 01:55 G 20110203.47 20110203.58 20110203.68 0.0301 0.0169

Jupiter 50348-02-14 03:36 G 20110332.46 20110332.65 20110332.83 0.0507 0.0049

Mars 50348-12-19 10:05 G 20110641.83 20110641.92 20110642.00 0.1851 0.1223

Mars 50349-10-18 05:31 G 20110944.56 20110944.73 20110944.89 0.1686 0.0353

Earth 50349-12-06 15:36 G 20110994.06 20110994.15 20110994.25 0.2661 0.1320

Moon 50349-12-06 16:05 G 20110994.07 20110994.17 20110994.26 0.2667 0.1407 *

Venus 50351-02-22 10:48 G 20111436.86 20111436.95 20111437.04 0.3688 0.1621

Jupiter 50353-10-15 02:10 G 20112402.47 20112402.59 20112402.72 0.0519 0.0070

Venus 50353-11-30 07:41 G 20112448.70 20112448.82 20112448.95 0.3683 0.2337

Venus 50356-09-07 01:41 G 20113460.47 20113460.57 20113460.67 0.3688 0.0623

Moon 50356-11-29 15:50 G 20113544.10 20113544.16 20113544.22 0.2662 0.2186

Earth 50356-11-29 16:34 G 20113544.12 20113544.19 20113544.26 0.2664 0.2052 *

Uranus 50357-02-27 12:14 G 20113634.01 20113634.01 20113634.03 0.0139 0.0138

Uranus 50357-05-26 15:36 G 20113722.09 20113722.15 20113722.22 0.0139 0.0118

Uranus 50357-08-22 18:43 G 20113810.20 20113810.28 20113810.38 0.0140 0.0098

Uranus 50357-11-18 22:05 G 20113898.32 20113898.42 20113898.53 0.0140 0.0077

Uranus 50358-02-15 01:26 G 20113986.44 20113986.56 20113986.68 0.0140 0.0056

Mars 50358-05-11 19:12 G 20114072.18 20114072.30 20114072.41 0.1844 0.0035

Uranus 50358-05-14 04:34 G 20114074.57 20114074.69 20114074.82 0.0140 0.0036

Uranus 50358-08-10 07:55 G 20114162.70 20114162.83 20114162.96 0.0140 0.0015

Uranus 50358-11-06 11:17 G 20114250.84 20114250.97 20114251.10 0.0140 0.0007

Uranus 50359-02-02 14:24 G 20114338.97 20114339.10 20114339.23 0.0140 0.0027

Uranus 50359-05-01 17:46 G 20114427.11 20114427.24 20114427.36 0.0140 0.0048

Moon 50359-06-08 05:17 G 20114464.57 20114464.72 20114464.87 0.2664 0.0976

Earth 50359-06-08 05:46 G 20114464.59 20114464.74 20114464.89 0.2670 0.0950 *

Uranus 50359-07-28 20:53 G 20114515.26 20114515.37 20114515.49 0.0140 0.0069

Uranus 50359-10-25 00:00 G 20114603.41 20114603.50 20114603.61 0.0141 0.0090

Jupiter 50359-12-03 00:29 G 20114642.34 20114642.52 20114642.70 0.0506 0.0162

Uranus 50360-01-21 03:22 G 20114691.57 20114691.64 20114691.72 0.0141 0.0110

Uranus 50360-04-18 06:43 G 20114779.74 20114779.78 20114779.83 0.0141 0.0131

Venus 50362-03-23 16:48 G 20115484.14 20115484.20 20115484.26 0.3687 0.2873

Saturn 50362-04-29 20:10 G 20115521.22 20115521.34 20115521.47 0.0260 0.0197

Saturn 50362-07-27 17:02 G 20115610.02 20115610.21 20115610.40 0.0260 0.0019

Saturn 50362-10-24 13:55 G 20115698.94 20115699.08 20115699.24 0.0261 0.0161

Earth 50362-12-09 08:53 G 20115744.83 20115744.87 20115744.90 0.2660 0.2500

Moon 50362-12-09 09:22 G 20115744.86 20115744.89 20115744.92 0.2663 0.2523 *

Jupiter 50365-08-03 06:43 G 20116712.65 20116712.78 20116712.90 0.0520 0.0089

Neptune 50367-01-12 22:48 G 20117240.41 20117240.45 20117240.51 0.0089 0.0082

Neptune 50367-04-11 00:14 G 20117328.44 20117328.51 20117328.59 0.0089 0.0074

Neptune 50367-07-08 01:26 G 20117416.48 20117416.56 20117416.66 0.0089 0.0066

Mars 50367-10-02 04:19 G 20117502.60 20117502.68 20117502.76 0.1837 0.1279

Neptune 50367-10-04 02:53 G 20117504.52 20117504.62 20117504.72 0.0089 0.0058

Neptune 50367-12-31 04:05 G 20117592.57 20117592.67 20117592.78 0.0089 0.0051

Neptune 50368-03-28 05:17 G 20117680.61 20117680.72 20117680.84 0.0089 0.0043

Neptune 50368-06-24 06:43 G 20117768.66 20117768.78 20117768.90 0.0089 0.0035

Neptune 50368-09-20 07:55 G 20117856.71 20117856.83 20117856.96 0.0089 0.0028

Neptune 50368-12-17 09:07 G 20117944.76 20117944.88 20117945.02 0.0089 0.0020

Neptune 50369-03-15 10:34 G 20118032.81 20118032.94 20118033.07 0.0089 0.0012

Neptune 50369-06-11 11:46 G 20118120.86 20118120.99 20118121.13 0.0089 0.0005

Neptune 50369-09-07 13:12 G 20118208.92 20118209.05 20118209.18 0.0089 0.0004

Moon 50369-12-02 09:22 G 20118294.79 20118294.89 20118294.99 0.2667 0.0887

Earth 50369-12-02 09:50 G 20118294.81 20118294.91 20118295.01 0.2663 0.0841 *

Neptune 50369-12-04 14:24 G 20118296.97 20118297.10 20118297.23 0.0089 0.0011

Neptune 50370-03-02 15:36 G 20118385.02 20118385.15 20118385.28 0.0089 0.0019

Neptune 50370-05-29 16:48 G 20118473.08 20118473.20 20118473.33 0.0089 0.0027

Neptune 50370-08-25 18:00 G 20118561.14 20118561.25 20118561.38 0.0089 0.0035

Neptune 50370-11-21 19:26 G 20118649.20 20118649.31 20118649.43 0.0089 0.0042

Neptune 50371-02-17 20:38 G 20118737.26 20118737.36 20118737.47 0.0089 0.0050

Neptune 50371-05-16 21:50 G 20118825.32 20118825.41 20118825.52 0.0089 0.0058

Neptune 50371-08-12 23:17 G 20118913.38 20118913.47 20118913.56 0.0089 0.0065

Jupiter 50371-09-20 20:53 G 20118952.25 20118952.37 20118952.50 0.0506 0.0377

Neptune 50371-11-09 00:29 G 20119001.45 20119001.52 20119001.60 0.0089 0.0073

Neptune 50372-02-05 01:26 G 20119089.52 20119089.56 20119089.63 0.0089 0.0081

Neptune 50372-05-03 02:53 G 20119177.62 20119177.62 20119177.64 0.0089 0.0088

Saturn 50376-08-31 02:38 G 20120758.55 20120758.61 20120758.67 0.0301 0.0258

Saturn 50376-11-27 15:07 G 20120847.00 20120847.13 20120847.25 0.0301 0.0074

Saturn 50377-02-24 03:22 G 20120935.52 20120935.64 20120935.76 0.0301 0.0109

Jupiter 50377-05-22 11:31 G 20121022.87 20121022.98 20121023.09 0.0521 0.0235

Saturn 50377-05-23 15:36 G 20121024.13 20121024.15 20121024.18 0.0300 0.0290

Jupiter 50377-08-19 15:50 G 20121112.08 20121112.16 20121112.25 0.0518 0.0377

Mars 50379-11-27 06:00 G 20121941.68 20121941.75 20121941.82 0.1680 0.1517

Moon 50382-12-05 02:53 G 20123045.52 20123045.62 20123045.73 0.2668 0.0361

Earth 50382-12-05 03:07 G 20123045.53 20123045.63 20123045.74 0.2662 0.0369 *

Jupiter 50383-10-08 05:02 G 20123352.56 20123352.71 20123352.87 0.0507 0.0268

Mars 50388-06-19 10:05 G 20125068.84 20125068.92 20125068.99 0.1850 0.1384

Jupiter 50389-03-10 16:34 G 20125333.10 20125333.19 20125333.27 0.0521 0.0380

Mars 50389-04-18 06:00 G 20125371.58 20125371.75 20125371.91 0.1686 0.0142

Jupiter 50389-06-07 20:53 G 20125422.26 20125422.37 20125422.49 0.0519 0.0238

Saturn 50391-09-16 19:12 G 20126253.25 20126253.30 20126253.35 0.0260 0.0249

Saturn 50391-12-14 16:05 G 20126341.98 20126342.17 20126342.35 0.0260 0.0072

Saturn 50392-03-12 12:43 G 20126430.86 20126431.03 20126431.21 0.0261 0.0108

Earth 50392-06-05 03:50 G 20126515.52 20126515.66 20126515.79 0.2669 0.1397

Moon 50392-06-05 04:34 G 20126515.54 20126515.69 20126515.83 0.2663 0.1277 *

Jupiter 50395-07-27 01:55 G 20127662.39 20127662.58 20127662.76 0.0507 0.0055

Earth 50395-12-07 20:24 G 20127796.26 20127796.35 20127796.44 0.2661 0.1549

Moon 50395-12-07 20:53 G 20127796.28 20127796.37 20127796.45 0.2666 0.1578 *

Uranus 50397-06-30 11:02 G 20128366.96 20128366.96 20128367.00 0.0139 0.0138

Uranus 50397-09-26 19:12 G 20128455.19 20128455.30 20128455.44 0.0139 0.0107

Mars 50397-11-09 18:58 G 20128499.18 20128499.29 20128499.41 0.1844 0.0121

Uranus 50397-12-24 03:22 G 20128543.49 20128543.64 20128543.81 0.0139 0.0077

Uranus 50398-03-22 11:31 G 20128631.80 20128631.98 20128632.17 0.0138 0.0046

Uranus 50398-06-18 19:41 G 20128720.12 20128720.32 20128720.51 0.0138 0.0016

Uranus 50398-09-15 03:36 G 20128808.46 20128808.65 20128808.85 0.0138 0.0015

Uranus 50398-12-12 11:46 G 20128896.80 20128896.99 20128897.18 0.0138 0.0045

Uranus 50399-03-10 19:26 G 20128985.16 20128985.31 20128985.49 0.0138 0.0075

Uranus 50399-06-07 03:36 G 20129073.53 20129073.65 20129073.78 0.0138 0.0105

Uranus 50399-09-03 11:31 G 20129161.95 20129161.98 20129162.03 0.0138 0.0135

Jupiter 50401-03-27 01:41 G 20129732.45 20129732.57 20129732.69 0.0519 0.0087

Venus 50402-03-15 17:02 G 20130086.16 20130086.21 20130086.26 0.3688 0.3038

Moon 50402-11-30 20:38 G 20130346.28 20130346.36 20130346.44 0.2663 0.1849

Earth 50402-11-30 21:22 G 20130346.31 20130346.39 20130346.47 0.2664 0.1818 *

Moon 50405-06-08 12:00 G 20131266.86 20131267.00 20131267.14 0.2664 0.1294

Earth 50405-06-08 12:43 G 20131266.89 20131267.03 20131267.16 0.2670 0.1466 *

Saturn 50406-04-16 15:07 G 20131579.03 20131579.13 20131579.25 0.0301 0.0154

Saturn 50406-07-14 03:36 G 20131667.53 20131667.65 20131667.78 0.0301 0.0032

Saturn 50406-10-10 15:50 G 20131756.08 20131756.16 20131756.25 0.0301 0.0213

Mars 50407-04-02 04:19 G 20131929.59 20131929.68 20131929.77 0.1837 0.1112

Jupiter 50407-05-14 23:02 G 20131972.28 20131972.46 20131972.64 0.0507 0.0153

Venus 50407-09-29 07:55 G 20132109.73 20132109.83 20132109.93 0.3688 0.0806

Venus 50410-07-07 10:48 G 20133121.79 20133121.95 20133122.11 0.3683 0.0675

Pluto 50411-10-27 08:38 G 20133598.81 20133598.86 20133598.95 0.0068 0.0059

Pluto 50412-01-23 09:22 G 20133686.81 20133686.89 20133687.00 0.0068 0.0048

Pluto 50412-04-20 10:05 G 20133774.81 20133774.92 20133775.04 0.0068 0.0037

Pluto 50412-07-17 10:34 G 20133862.82 20133862.94 20133863.07 0.0068 0.0027

Pluto 50412-10-13 11:17 G 20133950.84 20133950.97 20133951.10 0.0068 0.0016

Pluto 50413-01-09 12:00 G 20134038.86 20134039.00 20134039.13 0.0068 0.0005

Jupiter 50413-01-13 06:14 G 20134042.64 20134042.76 20134042.89 0.0520 0.0066

Pluto 50413-04-07 12:29 G 20134126.89 20134127.02 20134127.16 0.0068 0.0006

Venus 50413-04-13 23:02 G 20134133.37 20134133.46 20134133.55 0.3688 0.1451

Pluto 50413-07-04 12:58 G 20134214.91 20134215.04 20134215.18 0.0068 0.0017

Pluto 50413-09-30 13:26 G 20134302.94 20134303.06 20134303.19 0.0068 0.0028

Pluto 50413-12-27 14:10 G 20134390.98 20134391.09 20134391.20 0.0069 0.0039

Pluto 50414-03-25 14:38 G 20134479.03 20134479.11 20134479.21 0.0069 0.0050

Pluto 50414-06-21 15:07 G 20134567.08 20134567.13 20134567.20 0.0069 0.0061

Moon 50415-12-03 14:10 G 20135096.99 20135097.09 20135097.19 0.2668 0.0716

Earth 50415-12-03 14:38 G 20135097.01 20135097.11 20135097.22 0.2663 0.0605 *

Venus 50418-10-28 13:55 G 20136157.08 20136157.08 20136157.08 0.3687 0.3686

Jupiter 50419-03-02 19:55 G 20136282.20 20136282.33 20136282.46 0.0506 0.0362

Saturn 50421-05-02 13:26 G 20137073.90 20137074.06 20137074.23 0.0260 0.0136

Saturn 50421-07-30 10:34 G 20137162.75 20137162.94 20137163.13 0.0261 0.0043

Saturn 50421-10-27 07:26 G 20137251.72 20137251.81 20137251.92 0.0261 0.0223

Jupiter 50424-11-01 10:34 G 20138352.83 20138352.94 20138353.06 0.0520 0.0224

Jupiter 50425-01-29 14:53 G 20138442.04 20138442.12 20138442.20 0.0518 0.0387

Mars 50427-12-19 09:50 G 20139495.85 20139495.91 20139495.98 0.1850 0.1543

Mars 50428-10-17 06:43 G 20139798.61 20139798.78 20139798.95 0.1686 0.0111

Moon 50428-12-05 07:55 G 20139847.72 20139847.83 20139847.93 0.2668 0.0598

Earth 50428-12-05 07:55 G 20139847.73 20139847.83 20139847.94 0.2662 0.0593 *

Jupiter 50431-03-20 05:31 G 20140682.59 20140682.73 20140682.88 0.0508 0.0306

Saturn 50435-09-03 16:48 G 20142311.11 20142311.20 20142311.30 0.0301 0.0212

Saturn 50435-12-01 05:17 G 20142399.59 20142399.72 20142399.85 0.0301 0.0028

Saturn 50436-02-27 17:31 G 20142488.13 20142488.23 20142488.35 0.0301 0.0156

Jupiter 50436-08-20 15:22 G 20142663.05 20142663.14 20142663.23 0.0521 0.0373

Jupiter 50436-11-17 19:55 G 20142752.22 20142752.33 20142752.44 0.0519 0.0244

Mars 50437-05-10 18:58 G 20142926.18 20142926.29 20142926.41 0.1844 0.0287

Mars 50438-03-09 06:29 G 20143228.71 20143228.77 20143228.83 0.1692 0.1553

Earth 50438-06-06 10:34 G 20143317.79 20143317.94 20143318.10 0.2669 0.0886

Moon 50438-06-06 11:02 G 20143317.80 20143317.96 20143318.11 0.2663 0.0844 *

Uranus 50441-03-19 19:55 G 20144335.30 20144335.33 20144335.38 0.0139 0.0131

Uranus 50441-06-15 23:17 G 20144423.40 20144423.47 20144423.55 0.0139 0.0111

Uranus 50441-09-12 02:24 G 20144511.51 20144511.60 20144511.71 0.0140 0.0090

Earth 50441-12-08 01:12 G 20144598.47 20144598.55 20144598.63 0.2661 0.1776

Moon 50441-12-08 01:41 G 20144598.49 20144598.57 20144598.64 0.2666 0.1860 *

Uranus 50441-12-09 05:46 G 20144599.63 20144599.74 20144599.86 0.0140 0.0070

Uranus 50442-03-07 09:07 G 20144687.76 20144687.88 20144688.00 0.0140 0.0049

Uranus 50442-06-03 12:14 G 20144775.88 20144776.01 20144776.14 0.0140 0.0028

Uranus 50442-08-30 15:36 G 20144864.02 20144864.15 20144864.28 0.0140 0.0008

Uranus 50442-11-26 18:43 G 20144952.15 20144952.28 20144952.41 0.0140 0.0013

Jupiter 50443-01-06 00:29 G 20144992.33 20144992.52 20144992.70 0.0507 0.0064

Uranus 50443-02-22 21:50 G 20145040.29 20145040.41 20145040.54 0.0140 0.0035

Uranus 50443-05-22 01:12 G 20145128.43 20145128.55 20145128.67 0.0140 0.0055

Uranus 50443-08-18 04:19 G 20145216.58 20145216.68 20145216.80 0.0140 0.0076

Uranus 50443-11-14 07:41 G 20145304.73 20145304.82 20145304.92 0.0140 0.0096

Uranus 50444-02-10 10:48 G 20145392.89 20145392.95 20145393.03 0.0141 0.0118

Uranus 50444-05-08 14:24 G 20145481.08 20145481.10 20145481.12 0.0141 0.0138

Mars 50446-10-01 04:05 G 20146356.58 20146356.67 20146356.77 0.1837 0.0963

Jupiter 50448-06-08 20:10 G 20146973.34 20146973.34 20146973.35 0.0522 0.0521

Jupiter 50448-09-06 00:58 G 20147062.41 20147062.54 20147062.66 0.0520 0.0101

Moon 50448-12-01 01:26 G 20147148.48 20147148.56 20147148.64 0.2664 0.1731

Earth 50448-12-01 02:10 G 20147148.50 20147148.59 20147148.67 0.2664 0.1588 *

Saturn 50450-09-19 12:43 G 20147805.90 20147806.03 20147806.17 0.0260 0.0186

Saturn 50450-12-17 09:50 G 20147894.71 20147894.91 20147895.10 0.0261 0.0010

Saturn 50451-03-16 06:43 G 20147983.64 20147983.78 20147983.92 0.0261 0.0172

Moon 50451-06-09 18:43 G 20148069.17 20148069.28 20148069.39 0.2664 0.1942

Earth 50451-06-09 19:41 G 20148069.21 20148069.32 20148069.42 0.2671 0.1980 *

Neptune 50451-06-11 18:00 G 20148071.17 20148071.25 20148071.35 0.0088 0.0079

Neptune 50451-09-07 21:36 G 20148159.29 20148159.40 20148159.54 0.0088 0.0067

Neptune 50451-12-05 01:12 G 20148247.41 20148247.55 20148247.72 0.0088 0.0056

Neptune 50452-03-02 05:02 G 20148335.55 20148335.71 20148335.89 0.0088 0.0045

Neptune 50452-05-29 08:38 G 20148423.69 20148423.86 20148424.06 0.0088 0.0034

Neptune 50452-08-25 12:43 G 20148511.84 20148512.03 20148512.22 0.0088 0.0022

Neptune 50452-11-21 16:19 G 20148599.99 20148600.18 20148600.38 0.0088 0.0010

Neptune 50453-02-17 20:10 G 20148688.14 20148688.34 20148688.54 0.0088 0.0001

Neptune 50453-05-16 23:46 G 20148776.30 20148776.49 20148776.69 0.0088 0.0013

Neptune 50453-08-13 03:22 G 20148864.46 20148864.64 20148864.84 0.0088 0.0025

Neptune 50453-11-09 07:12 G 20148952.62 20148952.80 20148952.99 0.0088 0.0036

Neptune 50454-02-05 10:48 G 20149040.79 20149040.95 20149041.13 0.0088 0.0048

Neptune 50454-05-04 14:38 G 20149128.97 20149129.11 20149129.26 0.0088 0.0059

Neptune 50454-07-31 18:14 G 20149217.15 20149217.26 20149217.39 0.0088 0.0071

Jupiter 50454-10-24 21:07 G 20149302.20 20149302.38 20149302.56 0.0506 0.0149

Neptune 50454-10-27 22:19 G 20149305.36 20149305.43 20149305.50 0.0088 0.0082

Venus 50458-10-20 14:10 G 20150759.01 20150759.09 20150759.17 0.3688 0.2231

Jupiter 50460-06-25 05:31 G 20151372.61 20151372.73 20151372.86 0.0520 0.0051

Moon 50461-12-03 18:58 G 20151899.18 20151899.29 20151899.40 0.2668 0.0390

Earth 50461-12-03 19:26 G 20151899.20 20151899.31 20151899.42 0.2663 0.0376 *

Venus 50464-05-05 05:17 G 20152782.62 20152782.72 20152782.82 0.3688 0.0066

Saturn 50465-01-20 17:31 G 20153043.19 20153043.23 20153043.27 0.0301 0.0286

Saturn 50465-04-19 05:46 G 20153131.62 20153131.74 20153131.87 0.0301 0.0102

Saturn 50465-07-16 18:14 G 20153220.14 20153220.26 20153220.38 0.0301 0.0082

Saturn 50465-10-13 06:29 G 20153308.71 20153308.77 20153308.83 0.0301 0.0263

Jupiter 50466-08-12 18:14 G 20153612.13 20153612.26 20153612.39 0.0506 0.0356

Mars 50467-06-19 09:50 G 20153922.87 20153922.91 20153922.96 0.1851 0.1690

Mars 50468-04-17 07:26 G 20154225.64 20154225.81 20154225.97 0.1686 0.0346

Venus 50469-11-18 20:10 G 20154806.26 20154806.34 20154806.42 0.3687 0.2270

Jupiter 50472-04-13 10:05 G 20155682.81 20155682.92 20155683.04 0.0520 0.0204

Jupiter 50472-07-11 14:24 G 20155772.02 20155772.10 20155772.18 0.0518 0.0406

Moon 50474-12-06 12:43 G 20156649.93 20156650.03 20156650.14 0.2668 0.0816

Earth 50474-12-06 12:43 G 20156649.93 20156650.03 20156650.13 0.2661 0.0823 *

Mars 50476-11-08 18:58 G 20157353.18 20157353.29 20157353.41 0.1844 0.0451

Mars 50477-09-07 07:12 G 20157655.70 20157655.80 20157655.90 0.1692 0.1315

Jupiter 50478-08-30 04:34 G 20158012.54 20158012.69 20158012.83 0.0508 0.0318

Saturn 50480-02-06 10:19 G 20158537.89 20158537.93 20158538.00 0.0260 0.0249

Saturn 50480-05-05 07:26 G 20158626.63 20158626.81 20158627.00 0.0261 0.0070

Saturn 50480-08-02 04:19 G 20158715.51 20158715.68 20158715.86 0.0261 0.0109

Uranus 50481-07-20 18:29 G 20159068.21 20159068.27 20159068.35 0.0139 0.0130

Uranus 50481-10-17 02:24 G 20159156.48 20159156.60 20159156.75 0.0139 0.0100

Earth 50481-11-29 13:26 G 20159200.03 20159200.06 20159200.08 0.2665 0.2571

Uranus 50482-01-13 10:48 G 20159244.78 20159244.95 20159245.12 0.0139 0.0069

Uranus 50482-04-11 18:43 G 20159333.10 20159333.28 20159333.47 0.0138 0.0039

Uranus 50482-07-09 02:53 G 20159421.42 20159421.62 20159421.82 0.0138 0.0008

Uranus 50482-10-05 10:48 G 20159509.76 20159509.95 20159510.15 0.0138 0.0022

Uranus 50483-01-01 18:58 G 20159598.11 20159598.29 20159598.47 0.0138 0.0052

Uranus 50483-03-31 02:38 G 20159686.47 20159686.61 20159686.78 0.0138 0.0083

Uranus 50483-06-27 10:34 G 20159774.85 20159774.94 20159775.07 0.0138 0.0113

Jupiter 50484-01-31 14:24 G 20159993.01 20159993.10 20159993.19 0.0521 0.0365

Jupiter 50484-04-29 18:43 G 20160082.17 20160082.28 20160082.39 0.0519 0.0252

Moon 50484-06-06 17:31 G 20160120.07 20160120.23 20160120.39 0.2663 0.0432

Earth 50484-06-06 17:31 G 20160120.07 20160120.23 20160120.39 0.2670 0.0372 *

Mars 50486-04-01 04:05 G 20160783.57 20160783.67 20160783.78 0.1837 0.0805

Earth 50487-12-09 06:00 G 20161400.68 20161400.75 20161400.81 0.2660 0.2007

Moon 50487-12-09 06:29 G 20161400.70 20161400.77 20161400.83 0.2665 0.2073 *

Jupiter 50490-06-18 00:43 G 20162322.35 20162322.53 20162322.71 0.0507 0.0097

Saturn 50494-09-06 07:41 G 20163863.71 20163863.82 20163863.93 0.0301 0.0159

Moon 50494-12-02 06:14 G 20163950.67 20163950.76 20163950.85 0.2666 0.1382

Earth 50494-12-02 06:43 G 20163950.69 20163950.78 20163950.88 0.2664 0.1356 *

Saturn 50494-12-03 19:55 G 20163952.21 20163952.33 20163952.46 0.0301 0.0026

Saturn 50495-03-02 08:10 G 20164040.75 20164040.84 20164040.94 0.0300 0.0207

Jupiter 50495-11-19 18:58 G 20164303.28 20164303.29 20164303.31 0.0522 0.0516

Jupiter 50496-02-16 23:46 G 20164392.36 20164392.49 20164392.61 0.0519 0.0106

Moon 50497-06-10 01:41 G 20164871.49 20164871.57 20164871.64 0.2665 0.2350

Earth 50497-06-10 02:38 G 20164871.55 20164871.61 20164871.66 0.2671 0.2503 *

Pluto 50498-05-21 07:26 G 20165216.72 20165216.81 20165216.94 0.0076 0.0062

Pluto 50498-08-17 10:05 G 20165304.77 20165304.92 20165305.08 0.0076 0.0040

Pluto 50498-11-13 12:29 G 20165392.84 20165393.02 20165393.21 0.0076 0.0020

Pluto 50499-02-09 14:53 G 20165480.93 20165481.12 20165481.31 0.0076 0.0001

Pluto 50499-05-08 17:17 G 20165569.04 20165569.22 20165569.40 0.0076 0.0022

Pluto 50499-08-04 19:26 G 20165657.16 20165657.31 20165657.47 0.0076 0.0043

Pluto 50499-10-31 21:22 G 20165745.31 20165745.39 20165745.52 0.0076 0.0064

Jupiter 50502-04-06 19:41 G 20166632.14 20166632.32 20166632.50 0.0506 0.0142

Mars 50507-10-18 07:55 G 20168652.67 20168652.83 20168652.99 0.1686 0.0569

Moon 50507-12-05 23:46 G 20168701.38 20168701.49 20168701.60 0.2668 0.0252

Earth 50507-12-06 00:14 G 20168701.40 20168701.51 20168701.62 0.2662 0.0152 *

Jupiter 50507-12-07 04:34 G 20168702.57 20168702.69 20168702.82 0.0520 0.0042

Saturn 50509-09-23 06:58 G 20169358.63 20169358.79 20169358.97 0.0261 0.0117

Venus 50509-11-11 20:38 G 20169408.35 20169408.36 20169408.37 0.3688 0.3649

Saturn 50509-12-21 04:05 G 20169447.48 20169447.67 20169447.86 0.0261 0.0062

Saturn 50510-03-20 00:58 G 20169536.48 20169536.54 20169536.62 0.0261 0.0242

Jupiter 50514-01-23 16:19 G 20170942.05 20170942.18 20170942.31 0.0505 0.0354

Venus 50515-05-28 11:31 G 20171431.89 20171431.98 20171432.07 0.3688 0.1402

Mars 50516-05-10 18:58 G 20171780.18 20171780.29 20171780.40 0.1844 0.0588

Mars 50517-03-09 07:55 G 20172082.70 20172082.83 20172082.96 0.1692 0.1072

Earth 50517-06-05 15:50 G 20172171.16 20172171.16 20172171.16 0.2668 0.2665

Moon 50517-06-05 16:48 G 20172171.18 20172171.20 20172171.22 0.2663 0.2638

Venus 50518-03-05 04:19 G 20172443.56 20172443.68 20172443.79 0.3683 0.2506

Jupiter 50519-09-25 09:07 G 20173012.77 20173012.88 20173013.00 0.0521 0.0195

Jupiter 50519-12-23 13:26 G 20173101.99 20173102.06 20173102.14 0.0518 0.0418

Earth 50520-12-07 17:31 G 20173452.13 20173452.23 20173452.33 0.2661 0.1050

Moon 50520-12-07 17:31 G 20173452.14 20173452.23 20173452.33 0.2668 0.1130 *

Venus 50520-12-11 02:24 G 20173455.51 20173455.60 20173455.70 0.3687 0.0869

Saturn 50524-01-25 08:38 G 20174595.78 20174595.86 20174595.94 0.0301 0.0226

Saturn 50524-04-22 21:07 G 20174684.25 20174684.38 20174684.50 0.0301 0.0043

Saturn 50524-07-20 09:22 G 20174772.78 20174772.89 20174773.00 0.0301 0.0140

Uranus 50525-04-10 03:50 G 20175036.60 20175036.66 20175036.72 0.0139 0.0123

Uranus 50525-07-07 07:12 G 20175124.71 20175124.80 20175124.88 0.0139 0.0103

Mars 50525-10-01 04:05 G 20175210.57 20175210.67 20175210.78 0.1837 0.0644

Uranus 50525-10-03 10:19 G 20175212.83 20175212.93 20175213.04 0.0139 0.0082

Uranus 50525-12-30 13:41 G 20175300.95 20175301.07 20175301.18 0.0140 0.0062

Jupiter 50526-02-10 02:24 G 20175342.46 20175342.60 20175342.75 0.0508 0.0319

Uranus 50526-03-28 16:48 G 20175389.08 20175389.20 20175389.33 0.0140 0.0041

Uranus 50526-06-24 20:10 G 20175477.21 20175477.34 20175477.46 0.0140 0.0021

Venus 50526-06-26 17:31 G 20175479.18 20175479.23 20175479.28 0.3687 0.3098

Uranus 50526-09-20 23:17 G 20175565.34 20175565.47 20175565.60 0.0140 0.0000

Uranus 50526-12-18 02:24 G 20175653.48 20175653.60 20175653.73 0.0140 0.0021

Uranus 50527-03-16 05:46 G 20175741.62 20175741.74 20175741.86 0.0140 0.0041

Uranus 50527-06-12 08:53 G 20175829.76 20175829.87 20175829.99 0.0140 0.0062

Uranus 50527-09-08 12:00 G 20175917.91 20175918.00 20175918.11 0.0140 0.0084

Moon 50527-12-01 17:31 G 20176002.19 20176002.23 20176002.28 0.2662 0.2383

Earth 50527-12-01 18:14 G 20176002.21 20176002.26 20176002.31 0.2665 0.2334 *

Uranus 50527-12-05 15:22 G 20176006.06 20176006.14 20176006.23 0.0140 0.0104

Uranus 50528-03-02 18:43 G 20176094.23 20176094.28 20176094.34 0.0140 0.0125

Moon 50530-06-09 00:14 G 20176922.35 20176922.51 20176922.68 0.2662 0.0191

Earth 50530-06-09 00:29 G 20176922.36 20176922.52 20176922.68 0.2670 0.0146 *

Jupiter 50531-07-14 13:41 G 20177322.98 20177323.07 20177323.17 0.0521 0.0348

Neptune 50531-07-14 20:53 G 20177323.37 20177323.37 20177323.38 0.0089 0.0089

Neptune 50531-10-10 22:05 G 20177411.37 20177411.42 20177411.48 0.0089 0.0081

Jupiter 50531-10-11 18:14 G 20177412.15 20177412.26 20177412.36 0.0518 0.0268

Neptune 50532-01-06 23:17 G 20177499.41 20177499.47 20177499.55 0.0089 0.0073

Neptune 50532-04-04 00:43 G 20177587.44 20177587.53 20177587.62 0.0089 0.0065

Neptune 50532-07-01 01:55 G 20177675.49 20177675.58 20177675.69 0.0089 0.0058

Neptune 50532-09-27 03:07 G 20177763.53 20177763.63 20177763.75 0.0089 0.0050

Neptune 50532-12-24 04:34 G 20177851.58 20177851.69 20177851.81 0.0089 0.0042

Neptune 50533-03-22 06:00 G 20177939.63 20177939.75 20177939.87 0.0089 0.0034

Neptune 50533-06-18 07:12 G 20178027.68 20178027.80 20178027.93 0.0089 0.0026

Neptune 50533-09-14 08:24 G 20178115.73 20178115.85 20178115.98 0.0089 0.0019

Earth 50533-12-10 10:34 G 20178202.89 20178202.94 20178203.00 0.2660 0.2233

Moon 50533-12-10 11:17 G 20178202.91 20178202.97 20178203.02 0.2663 0.2285 *

Neptune 50533-12-11 09:50 G 20178203.78 20178203.91 20178204.04 0.0089 0.0011

Neptune 50534-03-09 11:02 G 20178291.83 20178291.96 20178292.09 0.0089 0.0003

Neptune 50534-06-05 12:14 G 20178379.88 20178380.01 20178380.14 0.0089 0.0005

Neptune 50534-09-01 13:26 G 20178467.94 20178468.06 20178468.20 0.0089 0.0013

Neptune 50534-11-28 14:53 G 20178555.99 20178556.12 20178556.25 0.0089 0.0020

Neptune 50535-02-24 16:05 G 20178644.05 20178644.17 20178644.30 0.0089 0.0028

Neptune 50535-05-23 17:17 G 20178732.11 20178732.22 20178732.35 0.0089 0.0036

Neptune 50535-08-19 18:43 G 20178820.17 20178820.28 20178820.39 0.0089 0.0043

Neptune 50535-11-15 19:55 G 20178908.23 20178908.33 20178908.44 0.0089 0.0051

Neptune 50536-02-11 21:07 G 20178996.29 20178996.38 20178996.48 0.0089 0.0059

Neptune 50536-05-09 22:34 G 20179084.35 20179084.44 20179084.52 0.0089 0.0066

Neptune 50536-08-05 23:31 G 20179172.42 20179172.48 20179172.56 0.0089 0.0074

Neptune 50536-11-02 00:43 G 20179260.49 20179260.53 20179260.59 0.0089 0.0082

Jupiter 50537-11-28 23:02 G 20179652.28 20179652.46 20179652.65 0.0507 0.0105

Saturn 50539-02-10 04:48 G 20180090.57 20180090.70 20180090.85 0.0261 0.0179

Saturn 50539-05-10 01:55 G 20180179.39 20180179.58 20180179.77 0.0261 0.0002

Saturn 50539-08-06 22:48 G 20180268.32 20180268.45 20180268.60 0.0261 0.0181

Moon 50540-12-03 11:02 G 20180752.86 20180752.96 20180753.05 0.2666 0.1257

Earth 50540-12-03 11:31 G 20180752.89 20180752.98 20180753.08 0.2663 0.1121 *

Jupiter 50543-05-02 17:46 G 20181633.22 20181633.24 20181633.27 0.0522 0.0511

Jupiter 50543-07-30 22:34 G 20181722.31 20181722.44 20181722.56 0.0519 0.0111

Mars 50547-04-18 08:38 G 20183079.71 20183079.86 20183080.01 0.1686 0.0805

Jupiter 50549-09-16 19:26 G 20183962.13 20183962.31 20183962.49 0.0506 0.0115

Saturn 50553-06-13 10:34 G 20185327.90 20185327.94 20185327.99 0.0301 0.0280

Saturn 50553-09-09 23:02 G 20185416.34 20185416.46 20185416.59 0.0301 0.0096

Moon 50553-12-06 04:48 G 20185503.59 20185503.70 20185503.80 0.2668 0.0138

Earth 50553-12-06 05:02 G 20185503.60 20185503.71 20185503.81 0.2662 0.0125 *

Saturn 50553-12-07 11:31 G 20185504.86 20185504.98 20185505.10 0.0300 0.0087

Saturn 50554-03-05 23:46 G 20185593.43 20185593.49 20185593.54 0.0300 0.0268

Jupiter 50555-05-19 03:07 G 20186032.51 20186032.63 20186032.76 0.0520 0.0043

Mars 50555-11-09 18:58 G 20186207.18 20186207.29 20186207.39 0.1844 0.0754

Mars 50556-09-07 08:24 G 20186509.71 20186509.85 20186510.00 0.1692 0.0851

Jupiter 50561-07-05 14:24 G 20188271.97 20188272.10 20188272.24 0.0505 0.0350

Earth 50563-06-06 22:34 G 20188973.35 20188973.44 20188973.53 0.2668 0.2171

Moon 50563-06-06 23:17 G 20188973.36 20188973.47 20188973.57 0.2662 0.1995 *

Mars 50565-04-01 04:05 G 20189637.56 20189637.67 20189637.78 0.1837 0.0486

Uranus 50565-08-11 01:41 G 20189769.48 20189769.57 20189769.65 0.0139 0.0123

Uranus 50565-11-07 09:22 G 20189857.76 20189857.89 20189858.05 0.0139 0.0093

Uranus 50566-02-03 17:31 G 20189946.06 20189946.23 20189946.41 0.0139 0.0063

Uranus 50566-05-03 01:41 G 20190034.38 20190034.57 20190034.76 0.0139 0.0032

Venus 50566-06-18 17:46 G 20190081.18 20190081.24 20190081.30 0.3688 0.2824

Uranus 50566-07-30 09:50 G 20190122.71 20190122.91 20190123.10 0.0138 0.0004

Uranus 50566-10-26 17:46 G 20190211.05 20190211.24 20190211.43 0.0138 0.0029

Earth 50566-12-08 22:05 G 20190254.33 20190254.42 20190254.52 0.2661 0.1282

Moon 50566-12-08 22:19 G 20190254.34 20190254.43 20190254.53 0.2668 0.1262 *

Uranus 50567-01-23 01:41 G 20190299.40 20190299.57 20190299.75 0.0138 0.0059

Jupiter 50567-03-07 07:55 G 20190342.71 20190342.83 20190342.95 0.0521 0.0190

Uranus 50567-04-21 09:36 G 20190387.76 20190387.90 20190388.06 0.0138 0.0089

Jupiter 50567-06-04 12:14 G 20190431.94 20190432.01 20190432.08 0.0518 0.0424

Uranus 50567-07-18 17:31 G 20190476.15 20190476.23 20190476.34 0.0138 0.0119

Saturn 50568-06-29 05:02 G 20190822.62 20190822.71 20190822.82 0.0261 0.0221

Saturn 50568-09-26 01:55 G 20190911.40 20190911.58 20190911.78 0.0261 0.0043

Saturn 50568-12-23 23:02 G 20191000.30 20191000.46 20191000.63 0.0261 0.0138

Venus 50572-01-02 08:53 G 20192104.77 20192104.87 20192104.96 0.3688 0.0585

Jupiter 50573-07-23 00:00 G 20192672.36 20192672.50 20192672.65 0.0507 0.0315

Moon 50573-12-01 22:19 G 20192804.37 20192804.43 20192804.49 0.2664 0.2184

Earth 50573-12-01 23:02 G 20192804.39 20192804.46 20192804.52 0.2665 0.2097 *

Mars 50574-08-22 13:12 G 20193068.01 20193068.05 20193068.09 0.1830 0.1726

Venus 50574-10-10 07:12 G 20193116.63 20193116.80 20193116.96 0.3683 0.0490

Moon 50576-06-09 06:58 G 20193724.63 20193724.79 20193724.96 0.2663 0.0531

Earth 50576-06-09 07:26 G 20193724.65 20193724.81 20193724.96 0.2670 0.0658 *

Venus 50577-07-17 23:46 G 20194128.40 20194128.49 20194128.58 0.3687 0.1683

Jupiter 50578-12-24 12:29 G 20194652.93 20194653.02 20194653.12 0.0521 0.0344

Jupiter 50579-03-23 17:02 G 20194742.10 20194742.21 20194742.31 0.0519 0.0273

Earth 50579-12-11 15:22 G 20195005.10 20195005.14 20195005.18 0.2660 0.2455

Moon 50579-12-11 16:05 G 20195005.15 20195005.17 20195005.19 0.2662 0.2586 *

Saturn 50583-01-28 00:29 G 20196148.42 20196148.52 20196148.64 0.0301 0.0156

Saturn 50583-04-26 12:58 G 20196236.91 20196237.04 20196237.17 0.0301 0.0027

Saturn 50583-07-24 01:12 G 20196325.46 20196325.55 20196325.64 0.0300 0.0208

Jupiter 50585-05-10 20:38 G 20196982.18 20196982.36 20196982.55 0.0507 0.0101

Mars 50586-10-17 09:22 G 20197506.76 20197506.89 20197507.02 0.1686 0.1048

Moon 50586-12-04 15:50 G 20197555.06 20197555.16 20197555.26 0.2666 0.0925

Earth 50586-12-04 16:19 G 20197555.08 20197555.18 20197555.29 0.2663 0.0888 *

Jupiter 50590-10-12 17:02 G 20198963.17 20198963.21 20198963.24 0.0522 0.0500

Jupiter 50591-01-09 21:36 G 20199052.28 20199052.40 20199052.52 0.0519 0.0121

Mars 50595-05-10 18:58 G 20200634.19 20200634.29 20200634.39 0.1844 0.0917

Mars 50596-03-08 09:07 G 20200936.73 20200936.88 20200937.04 0.1692 0.0620

Jupiter 50597-02-26 17:31 G 20201292.05 20201292.23 20201292.41 0.0506 0.0114

Saturn 50598-02-13 00:14 G 20201643.34 20201643.51 20201643.69 0.0261 0.0101

Saturn 50598-05-12 21:22 G 20201732.21 20201732.39 20201732.58 0.0261 0.0079

Saturn 50598-08-09 18:29 G 20201821.26 20201821.27 20201821.29 0.0261 0.0260

Moon 50599-12-07 09:36 G 20202305.79 20202305.90 20202306.01 0.2669 0.0258

Earth 50599-12-07 09:36 G 20202305.80 20202305.90 20202306.01 0.2662 0.0333 *

Jupiter 50602-10-30 01:55 G 20203362.45 20203362.58 20203362.70 0.0520 0.0041

Mars 50604-10-01 04:05 G 20204064.56 20204064.67 20204064.78 0.1837 0.0337

Jupiter 50608-12-16 13:41 G 20205601.94 20205602.07 20205602.22 0.0505 0.0332

Uranus 50609-02-02 08:10 G 20205649.82 20205649.84 20205649.87 0.0139 0.0136

Uranus 50609-05-01 11:31 G 20205737.91 20205737.98 20205738.06 0.0139 0.0116

Earth 50609-06-08 05:31 G 20205775.61 20205775.73 20205775.86 0.2669 0.1659

Moon 50609-06-08 06:00 G 20205775.62 20205775.75 20205775.87 0.2662 0.1713 *

Uranus 50609-07-28 14:38 G 20205826.03 20205826.11 20205826.21 0.0139 0.0096

Uranus 50609-10-24 18:00 G 20205914.14 20205914.25 20205914.36 0.0140 0.0075

Uranus 50610-01-20 21:07 G 20206002.27 20206002.38 20206002.51 0.0140 0.0055

Uranus 50610-04-19 00:29 G 20206090.40 20206090.52 20206090.65 0.0140 0.0034

Uranus 50610-07-16 03:50 G 20206178.53 20206178.66 20206178.79 0.0140 0.0013

Uranus 50610-10-12 06:58 G 20206266.66 20206266.79 20206266.92 0.0140 0.0009

Uranus 50611-01-08 10:19 G 20206354.80 20206354.93 20206355.06 0.0140 0.0029

Uranus 50611-04-06 13:26 G 20206442.94 20206443.06 20206443.19 0.0140 0.0049

Uranus 50611-07-03 16:48 G 20206531.09 20206531.20 20206531.31 0.0140 0.0070

Uranus 50611-09-29 19:55 G 20206619.24 20206619.33 20206619.43 0.0140 0.0091

Uranus 50611-12-26 23:17 G 20206707.39 20206707.47 20206707.55 0.0140 0.0112

Uranus 50612-03-24 02:24 G 20206795.57 20206795.60 20206795.65 0.0141 0.0133

Saturn 50612-06-17 02:53 G 20206880.53 20206880.62 20206880.71 0.0301 0.0205

Saturn 50612-09-13 15:22 G 20206969.01 20206969.14 20206969.26 0.0300 0.0024

Earth 50612-12-10 02:53 G 20207056.53 20207056.62 20207056.71 0.2661 0.1504

Moon 50612-12-10 03:07 G 20207056.55 20207056.63 20207056.72 0.2667 0.1610 *

Saturn 50612-12-11 03:36 G 20207057.54 20207057.65 20207057.76 0.0300 0.0160

Mars 50614-02-21 13:12 G 20207494.99 20207495.05 20207495.11 0.1830 0.1555

Jupiter 50614-08-18 06:29 G 20207672.65 20207672.77 20207672.89 0.0521 0.0192

Jupiter 50614-11-15 10:48 G 20207761.88 20207761.95 20207762.02 0.0518 0.0421

Neptune 50615-12-12 11:46 G 20208153.98 20208153.99 20208154.03 0.0088 0.0088

Neptune 50616-03-09 15:22 G 20208242.06 20208242.14 20208242.26 0.0088 0.0076

Neptune 50616-06-05 19:12 G 20208330.18 20208330.30 20208330.44 0.0088 0.0065

Neptune 50616-09-01 22:48 G 20208418.31 20208418.45 20208418.62 0.0088 0.0054

Neptune 50616-11-29 02:24 G 20208506.44 20208506.60 20208506.79 0.0088 0.0043

Neptune 50617-02-25 06:29 G 20208594.59 20208594.77 20208594.96 0.0088 0.0031

Neptune 50617-05-24 10:05 G 20208682.73 20208682.92 20208683.12 0.0088 0.0019

Neptune 50617-08-20 13:55 G 20208770.88 20208771.08 20208771.28 0.0088 0.0008

Neptune 50617-11-16 17:31 G 20208859.04 20208859.23 20208859.43 0.0088 0.0004

Neptune 50618-02-12 21:07 G 20208947.19 20208947.38 20208947.58 0.0088 0.0016

Neptune 50618-05-12 00:58 G 20209035.35 20209035.54 20209035.73 0.0088 0.0027

Neptune 50618-08-08 04:19 G 20209123.52 20209123.68 20209123.88 0.0088 0.0039

Neptune 50618-11-04 08:24 G 20209211.69 20209211.85 20209212.02 0.0088 0.0050

Neptune 50619-01-31 11:46 G 20209299.87 20209299.99 20209300.15 0.0088 0.0062

Neptune 50619-04-29 15:50 G 20209388.05 20209388.16 20209388.28 0.0088 0.0073

Neptune 50619-07-26 19:12 G 20209476.26 20209476.30 20209476.38 0.0088 0.0085

Moon 50619-12-04 03:07 G 20209606.56 20209606.63 20209606.70 0.2665 0.1974

Earth 50619-12-04 03:50 G 20209606.58 20209606.66 20209606.73 0.2664 0.1862 *

Jupiter 50621-01-02 21:50 G 20210002.27 20210002.41 20210002.56 0.0507 0.0314

Moon 50622-06-11 13:41 G 20210526.92 20210527.07 20210527.21 0.2664 0.1188

Earth 50622-06-11 14:10 G 20210526.95 20210527.09 20210527.24 0.2670 0.1168 *

Venus 50623-01-24 15:07 G 20210754.04 20210754.13 20210754.21 0.3688 0.1997

Mars 50626-04-18 09:50 G 20211933.80 20211933.91 20211934.02 0.1686 0.1266

Jupiter 50626-06-06 11:02 G 20211982.87 20211982.96 20211983.05 0.0522 0.0346

Jupiter 50626-09-03 15:36 G 20212072.04 20212072.15 20212072.25 0.0519 0.0273

Saturn 50627-07-04 00:58 G 20212375.38 20212375.54 20212375.70 0.0261 0.0140

Saturn 50627-09-30 21:50 G 20212464.22 20212464.41 20212464.60 0.0261 0.0040

Saturn 50627-12-28 18:43 G 20212553.19 20212553.28 20212553.39 0.0262 0.0222

Venus 50628-08-09 06:00 G 20212777.65 20212777.75 20212777.85 0.3688 0.0285

Venus 50631-05-18 10:05 G 20213789.86 20213789.92 20213789.97 0.3683 0.3464

Jupiter 50632-10-21 18:14 G 20214312.07 20214312.26 20214312.44 0.0506 0.0093

Moon 50632-12-05 20:38 G 20214357.26 20214357.36 20214357.46 0.2667 0.0745

Earth 50632-12-05 21:07 G 20214357.28 20214357.38 20214357.49 0.2663 0.0654 *

Venus 50634-02-22 21:07 G 20214801.30 20214801.38 20214801.45 0.3687 0.2512

Mars 50634-11-09 18:43 G 20215061.19 20215061.28 20215061.38 0.1844 0.1056

Mars 50635-09-08 10:05 G 20215363.75 20215363.92 20215364.08 0.1692 0.0370

Jupiter 50638-03-25 15:36 G 20216293.12 20216293.15 20216293.18 0.0522 0.0503

Jupiter 50638-06-22 20:10 G 20216382.22 20216382.34 20216382.46 0.0520 0.0120

Saturn 50641-11-04 05:02 G 20217612.64 20217612.71 20217612.78 0.0301 0.0256

Saturn 50642-01-31 17:31 G 20217701.10 20217701.23 20217701.35 0.0300 0.0073

Saturn 50642-04-30 05:46 G 20217789.62 20217789.74 20217789.86 0.0300 0.0109

Saturn 50642-07-27 18:00 G 20217878.22 20217878.25 20217878.28 0.0300 0.0289

Mars 50644-04-01 04:05 G 20218491.56 20218491.67 20218491.79 0.1837 0.0169

Jupiter 50644-08-09 14:38 G 20218621.93 20218622.11 20218622.30 0.0506 0.0125

Moon 50645-12-08 14:24 G 20219108.00 20219108.10 20219108.21 0.2669 0.0589

Earth 50645-12-08 14:24 G 20219108.00 20219108.10 20219108.21 0.2662 0.0551 *

Uranus 50649-09-01 09:07 G 20220470.78 20220470.88 20220471.00 0.0139 0.0114

Uranus 50649-11-28 17:17 G 20220559.07 20220559.22 20220559.38 0.0139 0.0083

Uranus 50650-02-25 01:26 G 20220647.38 20220647.56 20220647.74 0.0139 0.0053

Jupiter 50650-04-11 00:43 G 20220692.40 20220692.53 20220692.66 0.0520 0.0033

Uranus 50650-05-24 09:22 G 20220735.70 20220735.89 20220736.09 0.0138 0.0023

Uranus 50650-08-20 17:31 G 20220824.03 20220824.23 20220824.43 0.0138 0.0008

Uranus 50650-11-17 01:26 G 20220912.38 20220912.56 20220912.75 0.0138 0.0039

Uranus 50651-02-13 09:36 G 20221000.73 20221000.90 20221001.07 0.0138 0.0069

Uranus 50651-05-12 17:17 G 20221089.10 20221089.22 20221089.37 0.0138 0.0099

Uranus 50651-08-09 01:12 G 20221177.50 20221177.55 20221177.63 0.0138 0.0129

Mars 50653-08-22 13:12 G 20221921.98 20221922.05 20221922.12 0.1830 0.1400

Earth 50655-06-09 12:14 G 20222577.87 20222578.01 20222578.16 0.2669 0.1164

Moon 50655-06-09 12:29 G 20222577.87 20222578.02 20222578.18 0.2662 0.1041 *

Jupiter 50656-05-28 11:17 G 20222931.84 20222931.97 20222932.11 0.0506 0.0337

Saturn 50656-11-19 23:31 G 20223107.36 20223107.48 20223107.61 0.0261 0.0194

Saturn 50657-02-16 20:38 G 20223196.17 20223196.36 20223196.55 0.0261 0.0015

Saturn 50657-05-16 17:46 G 20223285.09 20223285.24 20223285.39 0.0261 0.0166

Pluto 50658-06-14 21:36 G 20223679.33 20223679.40 20223679.47 0.0068 0.0058

Pluto 50658-09-10 21:50 G 20223767.33 20223767.41 20223767.52 0.0068 0.0048

Pluto 50658-12-07 22:34 G 20223855.33 20223855.44 20223855.56 0.0068 0.0037

Earth 50658-12-11 07:41 G 20223858.74 20223858.82 20223858.90 0.2661 0.1733

Moon 50658-12-11 08:10 G 20223858.76 20223858.84 20223858.92 0.2665 0.1746 *

Pluto 50659-03-05 23:17 G 20223943.35 20223943.47 20223943.60 0.0068 0.0026

Pluto 50659-06-01 23:46 G 20224031.36 20224031.49 20224031.63 0.0068 0.0016

Pluto 50659-08-29 00:29 G 20224119.38 20224119.52 20224119.66 0.0068 0.0005

Pluto 50659-11-25 00:58 G 20224207.41 20224207.54 20224207.68 0.0068 0.0006

Pluto 50660-02-21 01:26 G 20224295.44 20224295.56 20224295.70 0.0068 0.0017

Pluto 50660-05-19 02:10 G 20224383.47 20224383.59 20224383.72 0.0068 0.0028

Pluto 50660-08-15 02:38 G 20224471.51 20224471.61 20224471.73 0.0069 0.0039

Pluto 50660-11-11 03:22 G 20224559.55 20224559.64 20224559.73 0.0069 0.0050

Pluto 50661-02-07 03:50 G 20224647.61 20224647.66 20224647.73 0.0069 0.0061

Jupiter 50662-01-28 04:48 G 20225002.58 20225002.70 20225002.82 0.0521 0.0196

Jupiter 50662-04-27 09:07 G 20225091.81 20225091.88 20225091.96 0.0518 0.0417

Mars 50665-10-17 10:34 G 20226360.87 20226360.94 20226361.02 0.1686 0.1511

Moon 50665-12-04 07:55 G 20226408.74 20226408.83 20226408.91 0.2665 0.1691

Earth 50665-12-04 08:38 G 20226408.77 20226408.86 20226408.94 0.2664 0.1628 *

Moon 50668-06-11 20:10 G 20227329.20 20227329.34 20227329.48 0.2665 0.1455

Earth 50668-06-11 21:07 G 20227329.26 20227329.38 20227329.51 0.2670 0.1687 *

Jupiter 50668-06-14 20:38 G 20227332.22 20227332.36 20227332.51 0.0507 0.0326

Saturn 50671-06-20 19:55 G 20228433.21 20228433.33 20228433.45 0.0300 0.0119

Saturn 50671-09-17 08:24 G 20228521.72 20228521.85 20228521.97 0.0300 0.0064

Saturn 50671-12-14 20:24 G 20228610.28 20228610.35 20228610.43 0.0300 0.0244

Jupiter 50673-11-16 09:22 G 20229312.80 20229312.89 20229312.98 0.0522 0.0352

Jupiter 50674-02-13 13:55 G 20229401.97 20229402.08 20229402.18 0.0519 0.0267

Venus 50674-02-14 21:22 G 20229403.36 20229403.39 20229403.42 0.3688 0.3416

Mars 50674-05-10 18:43 G 20229488.20 20229488.28 20229488.37 0.1844 0.1221

Mars 50675-03-09 10:19 G 20229790.77 20229790.93 20229791.10 0.1692 0.0160

Moon 50678-12-07 01:26 G 20231159.46 20231159.56 20231159.67 0.2668 0.0485

Earth 50678-12-07 01:55 G 20231159.47 20231159.58 20231159.69 0.2663 0.0418 *

Venus 50679-08-31 12:14 G 20231426.92 20231427.01 20231427.11 0.3688 0.1172

Jupiter 50680-04-02 15:50 G 20231641.98 20231642.16 20231642.35 0.0506 0.0088

Venus 50682-06-08 00:29 G 20232438.41 20232438.52 20232438.63 0.3683 0.2724

Mars 50683-10-01 04:05 G 20232918.55 20232918.67 20232918.78 0.1837 0.0067

Venus 50685-03-16 03:22 G 20233450.54 20233450.64 20233450.73 0.3687 0.1092

Jupiter 50685-09-04 13:41 G 20233623.05 20233623.07 20233623.09 0.0523 0.0511

Jupiter 50685-12-02 18:29 G 20233712.14 20233712.27 20233712.39 0.0520 0.0115

Saturn 50686-04-09 00:29 G 20233839.44 20233839.52 20233839.62 0.0261 0.0230

Saturn 50686-07-06 21:36 G 20233928.21 20233928.40 20233928.59 0.0262 0.0050

Saturn 50686-10-03 18:29 G 20234017.11 20234017.27 20234017.44 0.0262 0.0131

Venus 50690-09-29 18:14 G 20235474.22 20235474.26 20235474.30 0.3687 0.3333

Moon 50691-12-09 19:12 G 20235910.20 20235910.30 20235910.40 0.2669 0.0751

Earth 50691-12-09 19:12 G 20235910.20 20235910.30 20235910.40 0.2662 0.0776 *

Jupiter 50692-01-20 12:00 G 20235951.82 20235952.00 20235952.18 0.0505 0.0133

Mars 50693-02-20 13:12 G 20236348.96 20236349.05 20236349.13 0.1831 0.1249

Uranus 50693-02-22 16:05 G 20236351.12 20236351.17 20236351.22 0.0139 0.0129

Uranus 50693-05-21 19:12 G 20236439.22 20236439.30 20236439.38 0.0139 0.0108

Uranus 50693-08-17 22:34 G 20236527.34 20236527.44 20236527.54 0.0139 0.0088

Uranus 50693-11-14 01:41 G 20236615.46 20236615.57 20236615.69 0.0140 0.0068

Uranus 50694-02-10 05:02 G 20236703.59 20236703.71 20236703.83 0.0140 0.0047

Uranus 50694-05-09 08:10 G 20236791.72 20236791.84 20236791.97 0.0140 0.0027

Uranus 50694-08-05 11:31 G 20236879.85 20236879.98 20236880.11 0.0140 0.0005

Uranus 50694-11-01 14:38 G 20236967.99 20236968.11 20236968.25 0.0140 0.0016

Uranus 50695-01-28 18:00 G 20237056.13 20237056.25 20237056.38 0.0140 0.0036

Uranus 50695-04-26 21:07 G 20237144.27 20237144.38 20237144.50 0.0140 0.0057

Uranus 50695-07-24 00:29 G 20237232.41 20237232.52 20237232.63 0.0140 0.0078

Uranus 50695-10-20 03:50 G 20237320.57 20237320.66 20237320.75 0.0140 0.0099

Uranus 50696-01-16 06:58 G 20237408.73 20237408.79 20237408.86 0.0140 0.0120

Neptune 50696-04-10 19:41 G 20237494.32 20237494.32 20237494.35 0.0089 0.0088

Uranus 50696-04-13 10:19 G 20237496.93 20237496.93 20237496.93 0.0141 0.0140

Neptune 50696-07-07 21:07 G 20237582.34 20237582.38 20237582.45 0.0089 0.0080

Neptune 50696-10-03 22:34 G 20237670.37 20237670.44 20237670.52 0.0089 0.0072

Neptune 50696-12-31 00:00 G 20237758.41 20237758.50 20237758.59 0.0089 0.0064

Neptune 50697-03-29 00:58 G 20237846.45 20237846.54 20237846.65 0.0089 0.0057

Neptune 50697-06-25 02:24 G 20237934.50 20237934.60 20237934.72 0.0089 0.0049

Jupiter 50697-09-20 23:02 G 20238022.33 20238022.46 20238022.58 0.0520 0.0045

Neptune 50697-09-21 03:36 G 20238022.54 20238022.65 20238022.78 0.0089 0.0041 *

Neptune 50697-12-18 05:02 G 20238110.59 20238110.71 20238110.84 0.0089 0.0033

Neptune 50698-03-16 06:29 G 20238198.64 20238198.77 20238198.89 0.0089 0.0025

Neptune 50698-06-12 07:41 G 20238286.69 20238286.82 20238286.95 0.0089 0.0018

Neptune 50698-09-08 08:53 G 20238374.74 20238374.87 20238375.01 0.0089 0.0010

Moon 50698-12-02 19:12 G 20238460.29 20238460.30 20238460.32 0.2663 0.2632

Earth 50698-12-02 19:55 G 20238460.31 20238460.33 20238460.35 0.2665 0.2612 *

Neptune 50698-12-05 10:19 G 20238462.80 20238462.93 20238463.06 0.0089 0.0002

Neptune 50699-03-03 11:31 G 20238550.85 20238550.98 20238551.11 0.0089 0.0006

Neptune 50699-05-30 12:43 G 20238638.91 20238639.03 20238639.17 0.0089 0.0014

Neptune 50699-08-26 14:10 G 20238726.96 20238727.09 20238727.22 0.0089 0.0021

Neptune 50699-11-22 15:22 G 20238815.02 20238815.14 20238815.27 0.0089 0.0029

Neptune 50700-02-18 16:34 G 20238903.08 20238903.19 20238903.31 0.0089 0.0037

Neptune 50700-05-17 17:46 G 20238991.14 20238991.24 20238991.36 0.0089 0.0045

Neptune 50700-08-13 19:12 G 20239079.20 20239079.30 20239079.41 0.0089 0.0052

Saturn 50700-11-07 22:34 G 20239165.34 20239165.44 20239165.55 0.0300 0.0162

Neptune 50700-11-09 20:24 G 20239167.26 20239167.35 20239167.45 0.0089 0.0060

Saturn 50701-02-04 11:02 G 20239253.83 20239253.96 20239254.09 0.0300 0.0020

Neptune 50701-02-05 21:36 G 20239255.32 20239255.40 20239255.49 0.0089 0.0068

Saturn 50701-05-03 23:17 G 20239342.37 20239342.47 20239342.56 0.0300 0.0201

Neptune 50701-05-04 23:02 G 20239343.39 20239343.46 20239343.53 0.0089 0.0075

Earth 50701-06-10 19:12 G 20239380.14 20239380.30 20239380.46 0.2669 0.0653

Moon 50701-06-10 19:12 G 20239380.15 20239380.30 20239380.46 0.2662 0.0708 *

Neptune 50701-08-01 00:14 G 20239431.47 20239431.51 20239431.56 0.0089 0.0083

Jupiter 50703-11-09 08:10 G 20240261.71 20240261.84 20240261.98 0.0505 0.0352

Earth 50704-12-12 12:29 G 20240660.95 20240661.02 20240661.09 0.2661 0.1958

Moon 50704-12-12 12:58 G 20240660.98 20240661.04 20240661.11 0.2665 0.2083 *

Jupiter 50709-07-11 03:22 G 20242332.53 20242332.64 20242332.76 0.0521 0.0195

Jupiter 50709-10-08 07:41 G 20242421.75 20242421.82 20242421.90 0.0518 0.0419

Moon 50711-12-06 12:43 G 20243210.94 20243211.03 20243211.12 0.2665 0.1523

Earth 50711-12-06 13:26 G 20243210.96 20243211.06 20243211.15 0.2664 0.1394 *

Mars 50713-11-09 18:43 G 20243915.21 20243915.28 20243915.36 0.1844 0.1384

Moon 50714-06-14 02:38 G 20244131.51 20244131.61 20244131.71 0.2665 0.2131

Earth 50714-06-14 04:05 G 20244131.58 20244131.67 20244131.76 0.2670 0.2192 *

Mars 50714-09-08 11:02 G 20244217.80 20244217.96 20244218.13 0.1692 0.0085

Saturn 50715-11-24 20:38 G 20244660.18 20244660.36 20244660.54 0.0261 0.0102

Jupiter 50715-11-26 18:00 G 20244662.10 20244662.25 20244662.40 0.0507 0.0315

Saturn 50716-02-21 17:31 G 20244749.05 20244749.23 20244749.42 0.0261 0.0079

Saturn 50716-05-20 14:38 G 20244838.10 20244838.11 20244838.14 0.0262 0.0260

Jupiter 50721-04-29 07:26 G 20246642.72 20246642.81 20246642.90 0.0521 0.0359

Jupiter 50721-07-27 12:00 G 20246731.89 20246732.00 20246732.11 0.0519 0.0260

Mars 50723-04-02 04:05 G 20247345.55 20247345.67 20247345.78 0.1837 0.0154

Mars 50724-01-29 11:02 G 20247647.90 20247647.96 20247648.01 0.1698 0.1588

Moon 50724-12-08 06:29 G 20247961.66 20247961.77 20247961.87 0.2669 0.0221

Earth 50724-12-08 06:43 G 20247961.67 20247961.78 20247961.89 0.2663 0.0190 *

Jupiter 50727-09-14 14:10 G 20248971.90 20248972.09 20248972.27 0.0506 0.0093

Saturn 50730-03-28 01:12 G 20249897.46 20249897.55 20249897.65 0.0301 0.0207

Saturn 50730-06-24 13:41 G 20249985.94 20249986.07 20249986.20 0.0300 0.0024

Saturn 50730-09-21 01:55 G 20250074.48 20250074.58 20250074.69 0.0300 0.0158

Venus 50730-09-22 18:29 G 20250076.21 20250076.27 20250076.34 0.3688 0.2602

Mars 50732-08-22 13:12 G 20250775.96 20250776.05 20250776.14 0.1830 0.1090

Jupiter 50733-02-15 11:46 G 20250952.98 20250952.99 20250953.01 0.0522 0.0518

Jupiter 50733-05-15 16:34 G 20251042.07 20251042.19 20251042.31 0.0520 0.0106

Uranus 50733-06-26 08:38 G 20251083.83 20251083.86 20251083.92 0.0139 0.0135

Uranus 50733-09-22 16:48 G 20251172.08 20251172.20 20251172.34 0.0139 0.0105

Uranus 50733-12-20 00:43 G 20251260.38 20251260.53 20251260.71 0.0139 0.0075

Uranus 50734-03-18 09:07 G 20251348.69 20251348.88 20251349.06 0.0139 0.0044

Uranus 50734-06-14 17:02 G 20251437.02 20251437.21 20251437.41 0.0138 0.0014

Uranus 50734-09-11 00:58 G 20251525.35 20251525.54 20251525.74 0.0138 0.0018

Uranus 50734-12-08 09:07 G 20251613.70 20251613.88 20251614.07 0.0138 0.0047

Uranus 50735-03-06 17:02 G 20251702.05 20251702.21 20251702.38 0.0138 0.0078

Uranus 50735-06-03 01:12 G 20251790.43 20251790.55 20251790.67 0.0138 0.0108

Uranus 50735-08-30 08:53 G 20251878.87 20251878.87 20251878.89 0.0138 0.0138

Venus 50736-04-07 09:36 G 20252099.80 20252099.90 20252100.00 0.3688 0.0335

Earth 50737-12-11 00:00 G 20252712.40 20252712.50 20252712.60 0.2662 0.1007

Moon 50737-12-11 00:00 G 20252712.41 20252712.50 20252712.60 0.2668 0.1045 *

Venus 50739-01-14 03:36 G 20253111.48 20253111.65 20253111.81 0.3683 0.0311

Jupiter 50739-07-03 09:22 G 20253281.71 20253281.89 20253282.07 0.0505 0.0142

Venus 50741-10-22 00:29 G 20254123.44 20254123.52 20254123.61 0.3687 0.1907

Moon 50744-12-04 00:00 G 20255262.47 20255262.50 20255262.53 0.2663 0.2526

Earth 50744-12-04 00:43 G 20255262.48 20255262.53 20255262.58 0.2665 0.2377 *

Pluto 50745-01-07 17:46 G 20255297.16 20255297.24 20255297.37 0.0076 0.0064

Jupiter 50745-03-03 20:53 G 20255352.25 20255352.37 20255352.50 0.0521 0.0055

Pluto 50745-04-05 20:24 G 20255385.20 20255385.35 20255385.52 0.0076 0.0042

Saturn 50745-04-12 21:50 G 20255392.25 20255392.41 20255392.58 0.0262 0.0135

Pluto 50745-07-02 22:48 G 20255473.28 20255473.45 20255473.64 0.0076 0.0021

Saturn 50745-07-10 18:58 G 20255481.10 20255481.29 20255481.48 0.0262 0.0045

Pluto 50745-09-29 01:26 G 20255561.37 20255561.56 20255561.75 0.0076 0.0001

Saturn 50745-10-07 16:05 G 20255570.08 20255570.17 20255570.27 0.0262 0.0227

Pluto 50745-12-26 03:22 G 20255649.47 20255649.64 20255649.84 0.0076 0.0021

Pluto 50746-03-24 05:46 G 20255737.59 20255737.74 20255737.91 0.0076 0.0041

Pluto 50746-06-20 07:55 G 20255825.74 20255825.83 20255825.96 0.0076 0.0062

Moon 50747-06-12 01:41 G 20256182.40 20256182.57 20256182.73 0.2663 0.0174

Earth 50747-06-12 01:55 G 20256182.42 20256182.58 20256182.74 0.2669 0.0160 *

Earth 50750-12-13 17:17 G 20257463.16 20257463.22 20257463.28 0.2661 0.2188

Moon 50750-12-13 17:46 G 20257463.19 20257463.24 20257463.30 0.2664 0.2234 *

Jupiter 50751-04-21 05:31 G 20257591.60 20257591.73 20257591.86 0.0505 0.0361

Mars 50753-05-10 18:43 G 20258342.21 20258342.28 20258342.34 0.1844 0.1522

Mars 50754-03-09 11:46 G 20258644.83 20258644.99 20258645.16 0.1692 0.0330

Jupiter 50756-12-21 01:26 G 20259662.45 20259662.56 20259662.68 0.0521 0.0208

Jupiter 50757-03-20 06:00 G 20259751.67 20259751.75 20259751.82 0.0519 0.0408

Moon 50757-12-06 17:31 G 20260013.13 20260013.23 20260013.33 0.2666 0.1187

Earth 50757-12-06 18:14 G 20260013.16 20260013.26 20260013.35 0.2664 0.1163 *

Saturn 50759-08-15 04:34 G 20260629.61 20260629.69 20260629.76 0.0300 0.0242

Saturn 50759-11-11 16:48 G 20260718.08 20260718.20 20260718.33 0.0300 0.0060

Saturn 50760-02-08 05:02 G 20260806.60 20260806.71 20260806.83 0.0300 0.0122

Moon 50760-06-14 09:36 G 20260933.84 20260933.90 20260933.96 0.2665 0.2450

Mars 50762-10-01 04:05 G 20261772.55 20261772.67 20261772.78 0.1837 0.0305

Jupiter 50763-05-08 14:38 G 20261991.96 20261992.11 20261992.26 0.0507 0.0295

Mars 50763-07-30 11:31 G 20262074.88 20262074.98 20262075.08 0.1698 0.1359

Jupiter 50768-10-09 06:00 G 20263972.66 20263972.75 20263972.84 0.0522 0.0362

Jupiter 50769-01-06 10:34 G 20264061.83 20264061.94 20264062.05 0.0519 0.0257

Moon 50770-12-09 11:17 G 20264763.86 20264763.97 20264764.07 0.2669 0.0093

Earth 50770-12-09 11:31 G 20264763.87 20264763.98 20264764.09 0.2663 0.0079 *

Mars 50772-02-21 13:12 G 20265202.95 20265203.05 20265203.15 0.1830 0.0930

Saturn 50774-08-30 21:22 G 20266124.26 20266124.39 20266124.53 0.0261 0.0183

Saturn 50774-11-27 18:29 G 20266213.07 20266213.27 20266213.46 0.0261 0.0007

Jupiter 50775-02-24 11:02 G 20266301.77 20266301.96 20266302.14 0.0506 0.0077

Saturn 50775-02-24 15:22 G 20266302.00 20266302.14 20266302.29 0.0262 0.0177 *

Uranus 50777-03-15 23:31 G 20267052.42 20267052.48 20267052.54 0.0139 0.0123

Uranus 50777-06-12 02:38 G 20267140.53 20267140.61 20267140.70 0.0139 0.0102

Uranus 50777-09-08 06:00 G 20267228.64 20267228.75 20267228.85 0.0140 0.0082

Uranus 50777-12-05 09:07 G 20267316.77 20267316.88 20267317.00 0.0140 0.0061

Uranus 50778-03-03 12:29 G 20267404.90 20267405.02 20267405.15 0.0140 0.0041

Uranus 50778-05-30 15:36 G 20267493.03 20267493.15 20267493.28 0.0140 0.0021

Uranus 50778-08-26 18:58 G 20267581.16 20267581.29 20267581.42 0.0140 0.0001

Uranus 50778-11-22 22:05 G 20267669.30 20267669.42 20267669.55 0.0140 0.0022

Uranus 50779-02-19 01:26 G 20267757.44 20267757.56 20267757.69 0.0140 0.0042

Uranus 50779-05-18 04:48 G 20267845.58 20267845.70 20267845.81 0.0140 0.0063

Uranus 50779-08-14 07:55 G 20267933.73 20267933.83 20267933.94 0.0140 0.0084

Uranus 50779-11-10 11:02 G 20268021.88 20268021.96 20268022.05 0.0140 0.0105

Uranus 50780-02-06 14:38 G 20268110.05 20268110.11 20268110.16 0.0140 0.0126

Earth 50780-06-09 00:29 G 20268233.45 20268233.52 20268233.58 0.2668 0.2433

Moon 50780-06-09 01:12 G 20268233.48 20268233.55 20268233.62 0.2662 0.2400 *

Neptune 50780-09-08 09:50 G 20268324.86 20268324.91 20268324.98 0.0088 0.0084

Jupiter 50780-10-25 14:38 G 20268371.99 20268372.11 20268372.24 0.0520 0.0097

Neptune 50780-12-05 13:26 G 20268412.96 20268413.06 20268413.18 0.0088 0.0073

Neptune 50781-03-03 17:02 G 20268501.08 20268501.21 20268501.37 0.0088 0.0061

Neptune 50781-05-30 21:07 G 20268589.22 20268589.38 20268589.54 0.0088 0.0050

Neptune 50781-08-27 00:29 G 20268677.35 20268677.52 20268677.71 0.0088 0.0039

Neptune 50781-11-23 04:05 G 20268765.50 20268765.67 20268765.87 0.0088 0.0028

Neptune 50782-02-19 08:10 G 20268853.64 20268853.84 20268854.03 0.0088 0.0016

Neptune 50782-05-18 11:46 G 20268941.79 20268941.99 20268942.19 0.0088 0.0004

Neptune 50782-08-14 15:22 G 20269029.95 20269030.14 20269030.34 0.0088 0.0008

Neptune 50782-11-10 19:12 G 20269118.11 20269118.30 20269118.49 0.0088 0.0019

Neptune 50783-02-06 22:34 G 20269206.27 20269206.44 20269206.64 0.0088 0.0031

Neptune 50783-05-06 02:24 G 20269294.44 20269294.60 20269294.78 0.0088 0.0042

Neptune 50783-08-02 06:00 G 20269382.61 20269382.75 20269382.92 0.0088 0.0053

Neptune 50783-10-29 09:50 G 20269470.79 20269470.91 20269471.05 0.0088 0.0065

Earth 50783-12-12 04:48 G 20269514.60 20269514.70 20269514.79 0.2662 0.1236

Moon 50783-12-12 05:02 G 20269514.62 20269514.71 20269514.80 0.2667 0.1299 *

Neptune 50784-01-25 13:12 G 20269558.98 20269559.05 20269559.17 0.0088 0.0077

Neptune 50784-04-22 17:17 G 20269647.21 20269647.22 20269647.25 0.0088 0.0088

Jupiter 50786-12-13 07:12 G 20270611.62 20270611.80 20270611.98 0.0506 0.0143

Venus 50787-04-29 15:50 G 20270749.07 20270749.16 20270749.25 0.3688 0.1767

Saturn 50789-01-01 06:58 G 20271361.76 20271361.79 20271361.83 0.0301 0.0288

Saturn 50789-03-30 19:41 G 20271450.19 20271450.32 20271450.44 0.0300 0.0105

Saturn 50789-06-27 07:55 G 20271538.70 20271538.83 20271538.95 0.0300 0.0078

Saturn 50789-09-23 20:10 G 20271627.28 20271627.34 20271627.40 0.0300 0.0258

Moon 50790-12-05 04:48 G 20272064.64 20272064.70 20272064.76 0.2663 0.2171

Earth 50790-12-05 05:31 G 20272064.67 20272064.73 20272064.79 0.2665 0.2142 *

Jupiter 50792-08-13 19:12 G 20272682.17 20272682.30 20272682.42 0.0521 0.0061

Mars 50792-11-08 18:43 G 20272769.24 20272769.28 20272769.32 0.1844 0.1686

Venus 50792-11-12 06:43 G 20272772.69 20272772.78 20272772.88 0.3687 0.0504

Moon 50793-06-12 08:10 G 20272984.67 20272984.84 20272985.00 0.2663 0.0290

Earth 50793-06-12 08:53 G 20272984.71 20272984.87 20272985.03 0.2669 0.0356 *

Mars 50793-09-07 12:14 G 20273071.86 20273072.01 20273072.17 0.1692 0.0547

Venus 50795-08-21 06:29 G 20273784.70 20273784.77 20273784.84 0.3683 0.3302

Earth 50796-12-13 22:05 G 20274265.37 20274265.42 20274265.46 0.2661 0.2414

Moon 50796-12-13 22:34 G 20274265.41 20274265.44 20274265.47 0.2664 0.2520 *

Venus 50798-05-28 21:50 G 20274796.34 20274796.41 20274796.47 0.3687 0.2739

Jupiter 50798-10-01 02:53 G 20274921.50 20274921.62 20274921.75 0.0505 0.0371

Mars 50802-04-01 03:50 G 20276199.55 20276199.66 20276199.77 0.1837 0.0448

Mars 50803-01-28 12:14 G 20276501.88 20276502.01 20276502.13 0.1698 0.1125

Moon 50803-12-07 22:19 G 20276815.33 20276815.43 20276815.53 0.2668 0.1060

Earth 50803-12-07 22:48 G 20276815.35 20276815.45 20276815.56 0.2664 0.0932 *

Saturn 50804-01-17 22:48 G 20276856.34 20276856.45 20276856.55 0.0262 0.0216

Saturn 50804-04-15 19:41 G 20276945.13 20276945.32 20276945.51 0.0262 0.0036

Jupiter 50804-06-01 23:17 G 20276992.36 20276992.47 20276992.59 0.0522 0.0222

Saturn 50804-07-13 16:34 G 20277034.04 20277034.19 20277034.36 0.0262 0.0145

Jupiter 50804-08-30 03:50 G 20277081.58 20277081.66 20277081.74 0.0519 0.0395

Jupiter 50810-10-18 11:46 G 20279321.84 20279321.99 20279322.14 0.0506 0.0284

Mars 50811-08-22 12:58 G 20279629.94 20279630.04 20279630.15 0.1830 0.0786

Jupiter 50816-03-21 03:50 G 20281302.57 20281302.66 20281302.75 0.0522 0.0378

Jupiter 50816-06-18 08:24 G 20281391.74 20281391.85 20281391.96 0.0519 0.0243

Moon 50816-12-09 16:05 G 20281566.06 20281566.17 20281566.27 0.2669 0.0300

Earth 50816-12-09 16:19 G 20281566.07 20281566.18 20281566.28 0.2663 0.0291 *

Uranus 50817-07-16 16:34 G 20281785.13 20281785.19 20281785.29 0.0139 0.0125

Uranus 50817-10-13 00:58 G 20281873.40 20281873.54 20281873.69 0.0139 0.0094

Uranus 50818-01-09 08:53 G 20281961.70 20281961.87 20281962.05 0.0139 0.0064

Uranus 50818-04-07 17:02 G 20282050.02 20282050.21 20282050.40 0.0139 0.0033

Uranus 50818-07-05 01:12 G 20282138.35 20282138.55 20282138.74 0.0138 0.0004

Saturn 50818-08-17 23:02 G 20282182.34 20282182.46 20282182.57 0.0300 0.0137

Uranus 50818-10-01 09:07 G 20282226.69 20282226.88 20282227.07 0.0138 0.0027

Saturn 50818-11-14 11:17 G 20282270.84 20282270.97 20282271.10 0.0300 0.0045

Uranus 50818-12-28 17:02 G 20282315.04 20282315.21 20282315.40 0.0138 0.0058

Saturn 50819-02-10 23:31 G 20282359.40 20282359.48 20282359.57 0.0300 0.0225

Uranus 50819-03-27 00:58 G 20282403.40 20282403.54 20282403.70 0.0138 0.0088

Uranus 50819-06-23 08:53 G 20282491.78 20282491.87 20282491.98 0.0138 0.0118

Jupiter 50822-08-06 07:26 G 20283631.63 20283631.81 20283632.00 0.0506 0.0056

Earth 50826-06-10 07:12 G 20285035.69 20285035.80 20285035.91 0.2668 0.1937

Moon 50826-06-10 07:41 G 20285035.70 20285035.82 20285035.94 0.2662 0.1798 *

Jupiter 50828-04-06 13:12 G 20285701.92 20285702.05 20285702.17 0.0520 0.0094

Earth 50829-12-12 09:36 G 20286316.81 20286316.90 20286316.99 0.2661 0.1467

Moon 50829-12-12 09:50 G 20286316.83 20286316.91 20286317.00 0.2667 0.1493 *

Mars 50833-03-08 12:58 G 20287498.89 20287499.04 20287499.19 0.1692 0.0775

Saturn 50833-09-02 19:26 G 20287677.12 20287677.31 20287677.49 0.0261 0.0084

Saturn 50833-11-30 16:19 G 20287766.00 20287766.18 20287766.36 0.0261 0.0097

Jupiter 50834-05-25 03:50 G 20287941.49 20287941.66 20287941.84 0.0506 0.0161

Moon 50836-12-05 09:36 G 20288866.83 20288866.90 20288866.97 0.2664 0.2042

Earth 50836-12-05 10:19 G 20288866.85 20288866.93 20288867.00 0.2665 0.1908 *

Venus 50838-05-20 22:05 G 20289398.37 20289398.42 20289398.47 0.3688 0.3200

Moon 50839-06-13 14:53 G 20289786.96 20289787.12 20289787.28 0.2663 0.0720

Earth 50839-06-13 15:50 G 20289787.01 20289787.16 20289787.31 0.2670 0.0876 *

Jupiter 50840-01-24 17:17 G 20290012.09 20290012.22 20290012.35 0.0520 0.0070

Mars 50841-09-30 03:50 G 20290626.55 20290626.66 20290626.77 0.1837 0.0598

Mars 50842-07-29 12:43 G 20290928.89 20290929.03 20290929.17 0.1698 0.0895

Earth 50842-12-15 02:38 G 20291067.60 20291067.61 20291067.62 0.2660 0.2641

Venus 50843-12-04 13:12 G 20291421.95 20291422.05 20291422.14 0.3687 0.0945

Jupiter 50846-03-13 00:14 G 20292251.39 20292251.51 20292251.64 0.0505 0.0377

Jupiter 50846-06-11 13:26 G 20292342.06 20292342.06 20292342.07 0.0507 0.0507

Venus 50846-09-10 20:53 G 20292433.27 20292433.37 20292433.47 0.3683 0.2897

Saturn 50848-01-05 01:41 G 20292914.46 20292914.57 20292914.67 0.0301 0.0183

Saturn 50848-04-02 13:55 G 20293002.95 20293003.08 20293003.21 0.0300 0.0004

Saturn 50848-06-30 02:10 G 20293091.49 20293091.59 20293091.69 0.0300 0.0181

Venus 50849-06-19 04:05 G 20293445.58 20293445.67 20293445.76 0.3687 0.1310

Moon 50849-12-08 03:07 G 20293617.53 20293617.63 20293617.74 0.2669 0.0702

Earth 50849-12-08 03:36 G 20293617.55 20293617.65 20293617.76 0.2663 0.0697 *

Mars 50851-02-20 12:58 G 20294056.94 20294057.04 20294057.15 0.1830 0.0620

Jupiter 50851-11-12 21:36 G 20294322.29 20294322.40 20294322.51 0.0521 0.0229

Jupiter 50852-02-10 01:55 G 20294411.50 20294411.58 20294411.67 0.0519 0.0387

Venus 50855-01-02 18:58 G 20295469.27 20295469.29 20295469.32 0.3687 0.3577

Jupiter 50858-03-30 09:07 G 20296651.72 20296651.88 20296652.04 0.0506 0.0275

Neptune 50861-01-06 19:12 G 20297665.28 20297665.30 20297665.34 0.0089 0.0086

Uranus 50861-01-07 03:36 G 20297665.64 20297665.65 20297665.67 0.0139 0.0137

Neptune 50861-04-04 20:38 G 20297753.31 20297753.36 20297753.43 0.0089 0.0078

Uranus 50861-04-05 06:43 G 20297753.72 20297753.78 20297753.86 0.0139 0.0117

Neptune 50861-07-01 22:05 G 20297841.34 20297841.42 20297841.50 0.0089 0.0070

Uranus 50861-07-02 10:05 G 20297841.83 20297841.92 20297842.02 0.0139 0.0096

Neptune 50861-09-27 23:02 G 20297929.38 20297929.46 20297929.57 0.0089 0.0063

Uranus 50861-09-28 13:12 G 20297929.95 20297930.05 20297930.17 0.0139 0.0076

Neptune 50861-12-25 00:29 G 20298017.42 20298017.52 20298017.63 0.0089 0.0055

Uranus 50861-12-25 16:34 G 20298018.07 20298018.19 20298018.31 0.0140 0.0055

Neptune 50862-03-23 01:41 G 20298105.47 20298105.57 20298105.69 0.0089 0.0047

Uranus 50862-03-23 19:55 G 20298106.20 20298106.33 20298106.45 0.0140 0.0035

Neptune 50862-06-19 03:07 G 20298193.52 20298193.63 20298193.75 0.0089 0.0039

Uranus 50862-06-19 23:02 G 20298194.33 20298194.46 20298194.59 0.0140 0.0014

Neptune 50862-09-15 04:34 G 20298281.57 20298281.69 20298281.81 0.0089 0.0031

Uranus 50862-09-16 02:24 G 20298282.47 20298282.60 20298282.73 0.0140 0.0007

Moon 50862-12-10 20:53 G 20298368.27 20298368.37 20298368.48 0.2669 0.0456

Earth 50862-12-10 20:53 G 20298368.27 20298368.37 20298368.48 0.2662 0.0510 *

Neptune 50862-12-12 05:46 G 20298369.62 20298369.74 20298369.87 0.0089 0.0024

Uranus 50862-12-13 05:31 G 20298370.60 20298370.73 20298370.86 0.0140 0.0027

Saturn 50863-01-20 20:38 G 20298409.19 20298409.36 20298409.53 0.0262 0.0117

Neptune 50863-03-10 06:58 G 20298457.67 20298457.79 20298457.93 0.0089 0.0016

Uranus 50863-03-11 08:53 G 20298458.75 20298458.87 20298458.99 0.0140 0.0048

Saturn 50863-04-19 17:31 G 20298498.05 20298498.23 20298498.42 0.0262 0.0064

Neptune 50863-06-06 08:24 G 20298545.72 20298545.85 20298545.98 0.0089 0.0008

Uranus 50863-06-07 12:00 G 20298546.89 20298547.00 20298547.12 0.0140 0.0069

Saturn 50863-07-17 14:38 G 20298587.05 20298587.11 20298587.18 0.0262 0.0246

Jupiter 50863-09-01 01:41 G 20298632.49 20298632.57 20298632.65 0.0522 0.0393

Neptune 50863-09-02 09:36 G 20298633.77 20298633.90 20298634.04 0.0089 0.0003

Uranus 50863-09-03 15:07 G 20298635.04 20298635.13 20298635.24 0.0140 0.0090

Jupiter 50863-11-29 06:29 G 20298721.65 20298721.77 20298721.88 0.0520 0.0230

Neptune 50863-11-29 11:02 G 20298721.83 20298721.96 20298722.09 0.0089 0.0008 *

Uranus 50863-11-30 18:29 G 20298723.20 20298723.27 20298723.35 0.0140 0.0111

Neptune 50864-02-25 12:14 G 20298809.88 20298810.01 20298810.14 0.0089 0.0015

Uranus 50864-02-26 21:50 G 20298811.37 20298811.41 20298811.46 0.0140 0.0132

Neptune 50864-05-23 13:26 G 20298897.94 20298898.06 20298898.19 0.0089 0.0023

Neptune 50864-08-19 14:38 G 20298986.00 20298986.11 20298986.24 0.0089 0.0031

Neptune 50864-11-15 15:50 G 20299074.05 20299074.16 20299074.29 0.0089 0.0039

Neptune 50865-02-11 17:17 G 20299162.11 20299162.22 20299162.34 0.0089 0.0046

Neptune 50865-05-10 18:29 G 20299250.17 20299250.27 20299250.38 0.0089 0.0054

Neptune 50865-08-06 19:41 G 20299338.24 20299338.32 20299338.42 0.0089 0.0062

Neptune 50865-11-02 20:53 G 20299426.30 20299426.37 20299426.46 0.0089 0.0070

Neptune 50866-01-29 22:19 G 20299514.37 20299514.43 20299514.50 0.0089 0.0077

Neptune 50866-04-27 23:31 G 20299602.45 20299602.48 20299602.52 0.0089 0.0085

Jupiter 50870-01-16 05:02 G 20300961.52 20300961.71 20300961.89 0.0506 0.0049

Moon 50872-06-10 14:10 G 20301837.95 20301838.09 20301838.22 0.2662 0.1522

Earth 50872-06-10 13:55 G 20301837.95 20301838.08 20301838.22 0.2668 0.1433 *

Mars 50872-09-06 13:55 G 20301925.94 20301926.08 20301926.21 0.1692 0.1027

Jupiter 50875-09-17 11:02 G 20303031.83 20303031.96 20303032.08 0.0520 0.0077

Earth 50875-12-13 14:10 G 20303119.01 20303119.09 20303119.18 0.2661 0.1692

Moon 50875-12-13 14:38 G 20303119.03 20303119.11 20303119.19 0.2667 0.1799 *

Saturn 50877-05-24 05:02 G 20303646.62 20303646.71 20303646.80 0.0300 0.0216

Saturn 50877-08-20 17:17 G 20303735.10 20303735.22 20303735.35 0.0300 0.0034

Saturn 50877-11-17 05:31 G 20303823.63 20303823.73 20303823.85 0.0300 0.0149

Mars 50881-03-31 03:50 G 20305053.56 20305053.66 20305053.77 0.1837 0.0767

Jupiter 50881-11-04 00:29 G 20305271.35 20305271.52 20305271.70 0.0506 0.0181

Mars 50882-01-27 13:26 G 20305355.91 20305356.06 20305356.21 0.1698 0.0663

Moon 50882-12-06 14:24 G 20305669.02 20305669.10 20305669.18 0.2666 0.1734

Earth 50882-12-06 15:07 G 20305669.04 20305669.13 20305669.21 0.2664 0.1674 *

Moon 50885-06-13 21:36 G 20306589.26 20306589.40 20306589.55 0.2663 0.1333

Earth 50885-06-13 22:48 G 20306589.31 20306589.45 20306589.58 0.2670 0.1385 *

Jupiter 50887-07-06 15:36 G 20307342.03 20307342.15 20307342.28 0.0521 0.0075

Mars 50890-08-21 12:58 G 20308483.93 20308484.04 20308484.15 0.1830 0.0466

Saturn 50892-06-08 20:10 G 20309141.20 20309141.34 20309141.50 0.0261 0.0163

Saturn 50892-09-05 17:17 G 20309230.03 20309230.22 20309230.41 0.0261 0.0016

Saturn 50892-12-03 14:10 G 20309318.97 20309319.09 20309319.22 0.0261 0.0198

Jupiter 50893-08-22 21:07 G 20309581.27 20309581.38 20309581.50 0.0505 0.0394

Jupiter 50893-11-21 10:19 G 20309671.88 20309671.93 20309671.98 0.0508 0.0489

Venus 50894-12-25 19:26 G 20310071.23 20310071.31 20310071.38 0.3688 0.2365

Moon 50895-12-09 07:55 G 20310419.73 20310419.83 20310419.94 0.2669 0.0581

Earth 50895-12-09 08:24 G 20310419.74 20310419.85 20310419.96 0.2663 0.0464 *

Jupiter 50899-04-24 19:55 G 20311652.22 20311652.33 20311652.44 0.0521 0.0235

Jupiter 50899-07-23 00:14 G 20311741.43 20311741.51 20311741.60 0.0519 0.0380

Mars 50900-01-11 22:19 G 20311914.39 20311914.43 20311914.47 0.1824 0.1678

Venus 50900-07-11 10:19 G 20312094.83 20312094.93 20312095.03 0.3687 0.0148

Uranus 50901-08-06 23:46 G 20312486.39 20312486.49 20312486.59 0.0139 0.0118

Uranus 50901-11-03 07:41 G 20312574.68 20312574.82 20312574.98 0.0139 0.0088

Uranus 50902-01-30 15:36 G 20312662.98 20312663.15 20312663.34 0.0139 0.0058

Uranus 50902-04-29 00:00 G 20312751.31 20312751.50 20312751.69 0.0139 0.0027

Uranus 50902-07-26 07:55 G 20312839.64 20312839.83 20312840.03 0.0138 0.0004

Uranus 50902-10-22 15:50 G 20312927.98 20312928.16 20312928.36 0.0138 0.0035

Uranus 50903-01-19 00:00 G 20313016.33 20313016.50 20313016.68 0.0138 0.0064

Uranus 50903-04-17 08:10 G 20313104.70 20313104.84 20313104.98 0.0138 0.0095

Venus 50903-04-18 23:46 G 20313106.32 20313106.49 20313106.65 0.3683 0.0071

Uranus 50903-07-14 15:50 G 20313193.09 20313193.16 20313193.26 0.0138 0.0125

Pluto 50904-11-04 10:05 G 20313671.89 20313671.92 20313671.96 0.0068 0.0065

Pluto 50905-01-31 10:19 G 20313759.87 20313759.93 20313760.03 0.0068 0.0055

Pluto 50905-04-29 11:02 G 20313847.87 20313847.96 20313848.07 0.0068 0.0044

Pluto 50905-07-26 11:46 G 20313935.88 20313935.99 20313936.11 0.0068 0.0033

Jupiter 50905-09-10 06:29 G 20313981.62 20313981.77 20313981.93 0.0507 0.0269

Pluto 50905-10-22 12:29 G 20314023.89 20314024.02 20314024.15 0.0068 0.0022

Pluto 50906-01-18 12:58 G 20314111.91 20314112.04 20314112.18 0.0068 0.0012

Venus 50906-01-25 01:26 G 20314118.48 20314118.56 20314118.64 0.3687 0.2151

Pluto 50906-04-16 13:26 G 20314199.93 20314200.06 20314200.20 0.0068 0.0002

Pluto 50906-07-13 14:10 G 20314287.95 20314288.09 20314288.22 0.0068 0.0010

Pluto 50906-10-09 14:24 G 20314375.98 20314376.10 20314376.24 0.0068 0.0022

Saturn 50906-10-12 07:12 G 20314378.74 20314378.80 20314378.86 0.0301 0.0267

Pluto 50907-01-05 14:53 G 20314464.02 20314464.12 20314464.26 0.0068 0.0033

Saturn 50907-01-08 19:41 G 20314467.19 20314467.32 20314467.44 0.0301 0.0083

Pluto 50907-04-03 15:50 G 20314552.06 20314552.16 20314552.27 0.0069 0.0043

Saturn 50907-04-07 07:55 G 20314555.71 20314555.83 20314555.95 0.0300 0.0099

Pluto 50907-06-30 16:19 G 20314640.10 20314640.18 20314640.27 0.0069 0.0054

Saturn 50907-07-04 20:10 G 20314644.30 20314644.34 20314644.39 0.0300 0.0279

Pluto 50907-09-26 17:02 G 20314728.17 20314728.21 20314728.25 0.0069 0.0065

Earth 50908-12-12 01:41 G 20315170.47 20315170.57 20315170.68 0.2662 0.0735

Moon 50908-12-12 01:55 G 20315170.48 20315170.58 20315170.68 0.2669 0.0810 *

Jupiter 50911-02-12 00:00 G 20315962.42 20315962.50 20315962.59 0.0522 0.0397

Jupiter 50911-05-12 04:48 G 20316051.58 20316051.70 20316051.81 0.0519 0.0225

Mars 50912-03-08 14:10 G 20316352.98 20316353.09 20316353.21 0.1692 0.1236

Earth 50915-12-06 02:24 G 20317720.60 20317720.60 20317720.60 0.2666 0.2657

Jupiter 50917-06-29 02:24 G 20318291.42 20318291.60 20318291.79 0.0506 0.0044

Moon 50918-06-12 20:24 G 20318640.20 20318640.35 20318640.51 0.2662 0.0869

Earth 50918-06-12 20:53 G 20318640.22 20318640.37 20318640.52 0.2668 0.0941 *

Mars 50920-09-30 03:36 G 20319480.55 20319480.65 20319480.75 0.1837 0.0910

Mars 50921-07-29 14:10 G 20319782.93 20319783.09 20319783.25 0.1698 0.0427

Saturn 50921-10-27 21:22 G 20319873.27 20319873.39 20319873.51 0.0261 0.0199

Earth 50921-12-14 18:58 G 20319921.22 20319921.29 20319921.37 0.2661 0.1918

Moon 50921-12-14 19:26 G 20319921.24 20319921.31 20319921.39 0.2666 0.1934 *

Saturn 50922-01-24 18:14 G 20319962.07 20319962.26 20319962.45 0.0262 0.0020

Saturn 50922-04-23 15:07 G 20320050.99 20320051.13 20320051.29 0.0262 0.0162

Jupiter 50923-02-28 08:53 G 20320361.75 20320361.87 20320362.00 0.0520 0.0067

Moon 50928-12-07 19:12 G 20322471.21 20322471.30 20322471.39 0.2667 0.1524

Earth 50928-12-07 19:55 G 20322471.24 20322471.33 20322471.42 0.2664 0.1438 *

Jupiter 50929-04-16 22:34 G 20322601.26 20322601.44 20322601.61 0.0505 0.0180

Mars 50930-02-20 12:58 G 20322910.93 20322911.04 20322911.15 0.1831 0.0312

Moon 50931-06-16 04:34 G 20323391.56 20323391.69 20323391.81 0.2665 0.1673

Earth 50931-06-16 05:31 G 20323391.62 20323391.73 20323391.85 0.2670 0.1898 *

Jupiter 50934-12-17 13:41 G 20324671.94 20324672.07 20324672.19 0.0521 0.0089

Saturn 50936-05-27 22:48 G 20325199.34 20325199.45 20325199.57 0.0300 0.0118

Saturn 50936-08-24 11:17 G 20325287.85 20325287.97 20325288.10 0.0300 0.0065

Saturn 50936-11-20 23:31 G 20325376.41 20325376.48 20325376.55 0.0300 0.0245

Mars 50939-07-13 22:19 G 20326341.36 20326341.43 20326341.49 0.1823 0.1519

Jupiter 50941-02-02 17:46 G 20326911.14 20326911.24 20326911.36 0.0505 0.0411

Jupiter 50941-05-04 06:58 G 20327001.73 20327001.79 20327001.86 0.0507 0.0472

Moon 50941-12-10 12:43 G 20327221.93 20327222.03 20327222.14 0.2669 0.0260

Earth 50941-12-10 13:12 G 20327221.94 20327222.05 20327222.16 0.2663 0.0232 *

Uranus 50945-01-28 10:48 G 20328366.92 20328366.95 20328366.99 0.0139 0.0132

Uranus 50945-04-26 14:10 G 20328455.01 20328455.09 20328455.17 0.0139 0.0112

Neptune 50945-06-06 07:41 G 20328495.76 20328495.82 20328495.92 0.0088 0.0080

Uranus 50945-07-23 17:17 G 20328543.13 20328543.22 20328543.32 0.0139 0.0091

Neptune 50945-09-02 11:31 G 20328583.87 20328583.98 20328584.11 0.0088 0.0069

Uranus 50945-10-19 20:38 G 20328631.25 20328631.36 20328631.47 0.0139 0.0071

Neptune 50945-11-29 15:07 G 20328671.99 20328672.13 20328672.29 0.0088 0.0058

Uranus 50946-01-15 23:46 G 20328719.37 20328719.49 20328719.62 0.0139 0.0050

Neptune 50946-02-25 18:43 G 20328760.13 20328760.28 20328760.46 0.0088 0.0047

Uranus 50946-04-14 03:07 G 20328807.50 20328807.63 20328807.76 0.0140 0.0029

Neptune 50946-05-24 22:34 G 20328848.27 20328848.44 20328848.63 0.0088 0.0035

Uranus 50946-07-11 06:29 G 20328895.64 20328895.77 20328895.90 0.0140 0.0010

Neptune 50946-08-21 02:10 G 20328936.41 20328936.59 20328936.79 0.0088 0.0024

Jupiter 50946-10-05 18:14 G 20328982.15 20328982.26 20328982.38 0.0521 0.0238

Uranus 50946-10-07 09:36 G 20328983.77 20328983.90 20328984.03 0.0140 0.0012

Neptune 50946-11-17 06:00 G 20329024.56 20329024.75 20329024.95 0.0088 0.0012

Jupiter 50947-01-02 22:48 G 20329071.37 20329071.45 20329071.53 0.0519 0.0379

Uranus 50947-01-03 12:43 G 20329071.91 20329072.03 20329072.16 0.0140 0.0033

Neptune 50947-02-13 09:50 G 20329112.71 20329112.91 20329113.11 0.0088 0.0000

Uranus 50947-04-01 16:05 G 20329160.05 20329160.17 20329160.29 0.0140 0.0053

Neptune 50947-05-12 13:26 G 20329200.87 20329201.06 20329201.26 0.0088 0.0011

Uranus 50947-06-28 19:12 G 20329248.20 20329248.30 20329248.42 0.0140 0.0074

Neptune 50947-08-08 17:02 G 20329289.03 20329289.21 20329289.41 0.0088 0.0023

Uranus 50947-09-24 22:34 G 20329336.35 20329336.44 20329336.54 0.0140 0.0095

Neptune 50947-11-04 20:38 G 20329377.19 20329377.36 20329377.55 0.0088 0.0034

Uranus 50947-12-22 01:41 G 20329424.51 20329424.57 20329424.65 0.0140 0.0116

Neptune 50948-02-01 00:29 G 20329465.36 20329465.52 20329465.70 0.0088 0.0046

Uranus 50948-03-19 05:02 G 20329512.69 20329512.71 20329512.74 0.0140 0.0137

Neptune 50948-04-29 04:19 G 20329553.53 20329553.68 20329553.83 0.0088 0.0057

Neptune 50948-07-26 07:41 G 20329641.71 20329641.82 20329641.96 0.0088 0.0069

Neptune 50948-10-22 11:46 G 20329729.91 20329729.99 20329730.07 0.0088 0.0080

Saturn 50951-03-16 20:53 G 20330605.31 20330605.37 20330605.44 0.0261 0.0245

Saturn 50951-06-13 17:46 G 20330694.06 20330694.24 20330694.43 0.0261 0.0067

Venus 50951-08-02 16:48 G 20330744.10 20330744.20 20330744.29 0.3688 0.1538

Mars 50951-09-07 14:53 G 20330780.05 20330780.12 20330780.20 0.1692 0.1479

Saturn 50951-09-10 14:38 G 20330782.94 20330783.11 20330783.29 0.0261 0.0113

Jupiter 50953-02-20 03:22 G 20331311.48 20331311.64 20331311.81 0.0507 0.0254

Earth 50954-12-13 06:29 G 20331972.67 20331972.77 20331972.87 0.2662 0.0963

Moon 50954-12-13 06:43 G 20331972.68 20331972.78 20331972.88 0.2669 0.0941 *

Venus 50957-02-15 07:41 G 20332767.72 20332767.82 20332767.92 0.3687 0.0726

Jupiter 50958-07-24 22:34 G 20333292.36 20333292.44 20333292.52 0.0522 0.0399

Jupiter 50958-10-22 03:07 G 20333381.52 20333381.63 20333381.75 0.0519 0.0222

Venus 50959-11-24 02:38 G 20333779.52 20333779.61 20333779.70 0.3683 0.3072

Mars 50960-03-31 03:50 G 20333907.56 20333907.66 20333907.75 0.1837 0.1070

Mars 50961-01-27 14:38 G 20334209.95 20334210.11 20334210.28 0.1698 0.0200

Moon 50961-12-06 06:29 G 20334522.73 20334522.77 20334522.81 0.2663 0.2462

Earth 50961-12-06 07:12 G 20334522.76 20334522.80 20334522.84 0.2665 0.2420 *

Venus 50962-08-31 22:34 G 20334791.39 20334791.44 20334791.50 0.3687 0.2986

Moon 50964-06-13 03:22 G 20335442.48 20335442.64 20335442.80 0.2662 0.0584

Earth 50964-06-13 03:36 G 20335442.50 20335442.65 20335442.81 0.2669 0.0434 *

Jupiter 50964-12-09 00:00 G 20335621.31 20335621.50 20335621.69 0.0506 0.0037

Saturn 50965-10-15 00:43 G 20335931.43 20335931.53 20335931.64 0.0301 0.0174

Saturn 50966-01-11 13:12 G 20336019.92 20336020.05 20336020.18 0.0301 0.0009

Saturn 50966-04-10 01:26 G 20336108.46 20336108.56 20336108.66 0.0300 0.0191

Earth 50967-12-15 23:46 G 20336723.43 20336723.49 20336723.55 0.2661 0.2140

Moon 50967-12-16 00:14 G 20336723.46 20336723.51 20336723.57 0.2664 0.2278 *

Mars 50969-08-21 12:58 G 20337337.92 20337338.04 20337338.15 0.1830 0.0159

Jupiter 50970-08-10 07:26 G 20337691.69 20337691.81 20337691.94 0.0520 0.0068

Moon 50974-12-09 00:00 G 20339273.40 20339273.50 20339273.59 0.2667 0.1304

Earth 50974-12-09 00:29 G 20339273.43 20339273.52 20339273.62 0.2664 0.1209 *

Jupiter 50976-09-26 20:10 G 20339931.17 20339931.34 20339931.52 0.0505 0.0183

Moon 50977-06-16 11:02 G 20340193.88 20340193.96 20340194.03 0.2666 0.2335

Earth 50977-06-16 12:29 G 20340193.95 20340194.02 20340194.09 0.2670 0.2404 *

Mars 50979-01-11 22:05 G 20340768.35 20340768.42 20340768.50 0.1823 0.1373

Saturn 50980-10-30 18:14 G 20341426.09 20341426.26 20341426.44 0.0261 0.0107

Saturn 50981-01-27 15:07 G 20341514.95 20341515.13 20341515.32 0.0261 0.0073

Saturn 50981-04-26 12:14 G 20341603.97 20341604.01 20341604.06 0.0262 0.0254

Jupiter 50982-05-29 11:46 G 20342001.87 20342001.99 20342002.11 0.0521 0.0096

Jupiter 50982-08-26 16:05 G 20342091.17 20342091.17 20342091.18 0.0519 0.0517

Uranus 50985-08-27 06:29 G 20343187.66 20343187.77 20343187.88 0.0139 0.0112

Uranus 50985-11-23 14:24 G 20343275.95 20343276.10 20343276.26 0.0139 0.0082

Uranus 50986-02-19 22:19 G 20343364.26 20343364.43 20343364.62 0.0139 0.0052

Uranus 50986-05-19 06:43 G 20343452.58 20343452.78 20343452.97 0.0139 0.0021

Uranus 50986-08-15 14:38 G 20343540.92 20343541.11 20343541.31 0.0138 0.0010

Uranus 50986-11-11 22:34 G 20343629.26 20343629.44 20343629.64 0.0138 0.0041

Uranus 50987-02-08 06:43 G 20343717.61 20343717.78 20343717.95 0.0138 0.0071

Uranus 50987-05-07 14:38 G 20343805.99 20343806.11 20343806.25 0.0138 0.0101

Uranus 50987-08-03 22:34 G 20343894.40 20343894.44 20343894.51 0.0138 0.0131

Moon 50987-12-11 17:46 G 20344024.13 20344024.24 20344024.35 0.2669 0.0047

Earth 50987-12-11 18:00 G 20344024.14 20344024.25 20344024.36 0.2663 0.0024 *

Jupiter 50988-07-15 16:34 G 20344241.08 20344241.19 20344241.30 0.0505 0.0402

Jupiter 50988-10-14 05:17 G 20344331.67 20344331.72 20344331.79 0.0507 0.0479

Pluto 50991-05-30 03:22 G 20345289.63 20345289.64 20345289.69 0.0077 0.0076

Pluto 50991-08-26 05:46 G 20345377.63 20345377.74 20345377.89 0.0076 0.0055

Pluto 50991-11-22 08:24 G 20345465.69 20345465.85 20345466.03 0.0076 0.0033

Pluto 50992-02-18 10:48 G 20345553.77 20345553.95 20345554.14 0.0076 0.0012

Pluto 50992-05-16 13:12 G 20345641.87 20345642.05 20345642.24 0.0076 0.0009

Pluto 50992-08-12 15:22 G 20345729.98 20345730.14 20345730.33 0.0076 0.0030

Pluto 50992-11-08 17:46 G 20345818.11 20345818.24 20345818.39 0.0076 0.0050

Pluto 50993-02-04 19:55 G 20345906.28 20345906.33 20345906.41 0.0076 0.0071

Jupiter 50994-03-17 16:19 G 20346312.07 20346312.18 20346312.29 0.0522 0.0249

Jupiter 50994-06-14 20:53 G 20346401.29 20346401.37 20346401.46 0.0519 0.0369

Saturn 50995-03-04 03:36 G 20346663.57 20346663.65 20346663.75 0.0300 0.0214

Saturn 50995-05-31 16:05 G 20346752.04 20346752.17 20346752.30 0.0300 0.0031

Saturn 50995-08-28 04:34 G 20346840.58 20346840.69 20346840.80 0.0300 0.0151

Mars 50999-09-30 03:36 G 20348334.57 20348334.65 20348334.74 0.1837 0.1227

Mars 51000-07-29 15:22 G 20348636.97 20348637.14 20348637.31 0.1698 0.0034

Jupiter 51000-08-03 00:29 G 20348641.36 20348641.52 20348641.69 0.0507 0.0241

Earth 51000-12-14 11:17 G 20348774.87 20348774.97 20348775.07 0.2662 0.1192

Moon 51000-12-14 11:31 G 20348774.89 20348774.98 20348775.08 0.2669 0.1276 *

52ND MILLENNIUM CE

This is a list of transits of Mercury in the 52nd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Venus 51002-08-24 23:02 G 20349393.40 20349393.46 20349393.51 0.3688 0.2965

Jupiter 51006-01-04 21:07 G 20350622.30 20350622.38 20350622.47 0.0522 0.0398

Jupiter 51006-04-04 01:55 G 20350711.46 20350711.58 20350711.69 0.0519 0.0225

Moon 51007-12-08 11:17 G 20351324.92 20351324.97 20351325.02 0.2665 0.2328

Earth 51007-12-08 12:00 G 20351324.94 20351325.00 20351325.06 0.2665 0.2186 *

Venus 51008-03-09 13:55 G 20351416.98 20351417.08 20351417.18 0.3687 0.0700

Mars 51009-02-20 12:58 G 20351764.92 20351765.04 20351765.15 0.1830 0.0026

Mars 51009-12-19 15:07 G 20352067.09 20352067.13 20352067.17 0.1704 0.1645

Saturn 51010-03-20 17:31 G 20352158.09 20352158.23 20352158.39 0.0261 0.0156

Moon 51010-06-15 10:05 G 20352244.75 20352244.92 20352245.08 0.2662 0.0118

Earth 51010-06-15 10:34 G 20352244.78 20352244.94 20352245.10 0.2669 0.0073 *

Saturn 51010-06-17 14:38 G 20352246.92 20352247.11 20352247.30 0.0261 0.0023

Saturn 51010-09-14 11:31 G 20352335.87 20352335.98 20352336.11 0.0261 0.0204

Venus 51010-12-15 17:17 G 20352428.13 20352428.22 20352428.30 0.3683 0.3133

Jupiter 51012-05-21 21:07 G 20352951.20 20352951.38 20352951.57 0.0506 0.0027

Venus 51013-09-23 04:48 G 20353440.61 20353440.70 20353440.79 0.3687 0.1557

Earth 51013-12-17 04:34 G 20353525.64 20353525.69 20353525.73 0.2661 0.2368

Moon 51013-12-17 05:17 G 20353525.67 20353525.72 20353525.76 0.2662 0.2400 *

Jupiter 51018-01-21 06:14 G 20355021.64 20355021.76 20355021.89 0.0520 0.0068

Mars 51018-07-13 22:05 G 20355195.34 20355195.42 20355195.51 0.1823 0.1213

Moon 51020-12-10 04:48 G 20356075.60 20356075.70 20356075.80 0.2667 0.1028

Earth 51020-12-10 05:17 G 20356075.62 20356075.72 20356075.83 0.2664 0.0975 *

Moon 51023-06-18 17:46 G 20356996.21 20356996.24 20356996.27 0.2667 0.2612

Jupiter 51024-03-09 18:00 G 20357261.08 20357261.25 20357261.42 0.0506 0.0186

Saturn 51024-07-22 05:02 G 20357395.67 20357395.71 20357395.76 0.0301 0.0277

Saturn 51024-10-18 17:31 G 20357484.11 20357484.23 20357484.35 0.0301 0.0093

Saturn 51025-01-15 06:00 G 20357572.62 20357572.75 20357572.87 0.0301 0.0090

Saturn 51025-04-13 18:00 G 20357661.21 20357661.25 20357661.31 0.0300 0.0272

Neptune 51025-10-05 18:43 G 20357836.25 20357836.28 20357836.33 0.0089 0.0084

Neptune 51026-01-01 20:10 G 20357924.28 20357924.34 20357924.41 0.0089 0.0076

Neptune 51026-03-30 21:22 G 20358012.32 20358012.39 20358012.48 0.0089 0.0068

Neptune 51026-06-26 22:48 G 20358100.36 20358100.45 20358100.55 0.0089 0.0060

Neptune 51026-09-23 00:14 G 20358188.40 20358188.51 20358188.61 0.0089 0.0052

Neptune 51026-12-20 01:12 G 20358276.45 20358276.55 20358276.68 0.0089 0.0045

Neptune 51027-03-18 02:38 G 20358364.50 20358364.61 20358364.73 0.0089 0.0037

Neptune 51027-06-14 04:05 G 20358452.54 20358452.67 20358452.79 0.0089 0.0029

Neptune 51027-09-10 05:17 G 20358540.60 20358540.72 20358540.85 0.0089 0.0021

Neptune 51027-12-07 06:29 G 20358628.65 20358628.77 20358628.91 0.0089 0.0014

Neptune 51028-03-04 07:55 G 20358716.70 20358716.83 20358716.96 0.0089 0.0006

Neptune 51028-05-31 09:07 G 20358804.75 20358804.88 20358805.02 0.0089 0.0003

Neptune 51028-08-27 10:34 G 20358892.81 20358892.94 20358893.07 0.0089 0.0010

Neptune 51028-11-23 11:46 G 20358980.86 20358980.99 20358981.12 0.0089 0.0018

Uranus 51029-02-18 18:14 G 20359068.21 20359068.26 20359068.32 0.0139 0.0126

Neptune 51029-02-19 12:58 G 20359068.92 20359069.04 20359069.17 0.0089 0.0026

Uranus 51029-05-17 21:36 G 20359156.32 20359156.40 20359156.48 0.0139 0.0105

Neptune 51029-05-18 14:24 G 20359156.98 20359157.10 20359157.22 0.0089 0.0033

Uranus 51029-08-14 00:43 G 20359244.43 20359244.53 20359244.64 0.0139 0.0085

Neptune 51029-08-14 15:36 G 20359245.04 20359245.15 20359245.27 0.0089 0.0041

Jupiter 51029-11-09 10:34 G 20359331.82 20359331.94 20359332.07 0.0521 0.0090

Uranus 51029-11-10 04:05 G 20359332.56 20359332.67 20359332.79 0.0139 0.0064

Neptune 51029-11-10 16:48 G 20359333.10 20359333.20 20359333.31 0.0089 0.0049

Uranus 51030-02-06 07:12 G 20359420.68 20359420.80 20359420.93 0.0139 0.0044

Neptune 51030-02-06 18:14 G 20359421.16 20359421.26 20359421.36 0.0089 0.0056

Uranus 51030-05-05 10:34 G 20359508.81 20359508.94 20359509.07 0.0139 0.0023

Neptune 51030-05-05 19:26 G 20359509.22 20359509.31 20359509.40 0.0089 0.0064

Uranus 51030-08-01 13:55 G 20359596.95 20359597.08 20359597.21 0.0140 0.0005

Neptune 51030-08-01 20:24 G 20359597.29 20359597.35 20359597.44 0.0089 0.0072

Uranus 51030-10-28 17:02 G 20359685.08 20359685.21 20359685.34 0.0140 0.0018

Neptune 51030-10-28 21:36 G 20359685.36 20359685.40 20359685.47 0.0089 0.0080

Uranus 51031-01-24 20:24 G 20359773.22 20359773.35 20359773.47 0.0140 0.0039

Neptune 51031-01-24 23:02 G 20359773.45 20359773.46 20359773.49 0.0089 0.0087 *

Uranus 51031-04-22 23:31 G 20359861.36 20359861.48 20359861.60 0.0140 0.0060

Uranus 51031-07-20 02:53 G 20359949.51 20359949.62 20359949.72 0.0140 0.0080

Uranus 51031-10-16 06:00 G 20360037.66 20360037.75 20360037.84 0.0140 0.0101

Uranus 51032-01-12 09:07 G 20360125.83 20360125.88 20360125.95 0.0140 0.0122

Moon 51033-12-12 22:48 G 20360826.34 20360826.45 20360826.55 0.2670 0.0244

Earth 51033-12-12 22:48 G 20360826.34 20360826.45 20360826.56 0.2663 0.0237 *

Jupiter 51035-12-27 14:38 G 20361571.00 20361571.11 20361571.22 0.0505 0.0400

Jupiter 51036-03-27 03:36 G 20361661.60 20361661.65 20361661.71 0.0507 0.0481

Mars 51039-04-01 03:36 G 20362761.58 20362761.65 20362761.72 0.1837 0.1374

Saturn 51039-08-07 17:17 G 20362890.11 20362890.22 20362890.35 0.0261 0.0202

Saturn 51039-11-04 14:24 G 20362978.91 20362979.10 20362979.29 0.0261 0.0023

Mars 51040-01-28 16:05 G 20363064.00 20363064.17 20363064.33 0.1698 0.0273

Saturn 51040-02-01 11:17 G 20363067.82 20363067.97 20363068.13 0.0261 0.0157

Jupiter 51041-08-28 14:53 G 20363642.01 20363642.12 20363642.23 0.0522 0.0252

Jupiter 51041-11-25 19:12 G 20363731.22 20363731.30 20363731.39 0.0519 0.0367

Moon 51043-06-13 08:53 G 20364295.78 20364295.87 20364295.97 0.2661 0.2197

Earth 51043-06-13 08:53 G 20364295.78 20364295.87 20364295.96 0.2668 0.2208 *

Earth 51046-12-15 16:05 G 20365577.08 20365577.17 20365577.26 0.2662 0.1419

Moon 51046-12-15 16:19 G 20365577.09 20365577.18 20365577.27 0.2667 0.1443 *

Jupiter 51048-01-13 23:31 G 20365971.32 20365971.48 20365971.64 0.0506 0.0257

Mars 51048-08-21 12:43 G 20366191.92 20366192.03 20366192.15 0.1830 0.0167

Mars 51049-06-19 15:50 G 20366494.07 20366494.16 20366494.25 0.1704 0.1409

Jupiter 51053-06-16 19:26 G 20367952.23 20367952.31 20367952.39 0.0522 0.0404

Jupiter 51053-09-14 00:14 G 20368041.39 20368041.51 20368041.62 0.0520 0.0220

Moon 51053-12-08 16:05 G 20368127.10 20368127.17 20368127.24 0.2666 0.1982

Earth 51053-12-08 16:48 G 20368127.12 20368127.20 20368127.27 0.2665 0.1953 *

Saturn 51054-03-07 20:10 G 20368216.23 20368216.34 20368216.46 0.0300 0.0137

Saturn 51054-06-04 08:38 G 20368304.73 20368304.86 20368304.99 0.0300 0.0046

Saturn 51054-08-31 20:53 G 20368393.29 20368393.37 20368393.45 0.0300 0.0227

Moon 51056-06-15 16:34 G 20369047.03 20369047.19 20369047.35 0.2663 0.0422

Earth 51056-06-15 17:31 G 20369047.07 20369047.23 20369047.38 0.2669 0.0583 *

Mars 51058-01-11 22:05 G 20369622.33 20369622.42 20369622.52 0.1824 0.1049

Venus 51059-03-31 20:10 G 20370066.26 20370066.34 20370066.42 0.3688 0.2132

Jupiter 51059-11-01 18:43 G 20370281.09 20370281.28 20370281.46 0.0506 0.0021

Earth 51059-12-18 09:22 G 20370327.87 20370327.89 20370327.91 0.2661 0.2594

Venus 51064-10-14 11:02 G 20372089.86 20372089.96 20372090.06 0.3687 0.0194

Jupiter 51065-07-03 05:02 G 20372351.59 20372351.71 20372351.84 0.0520 0.0076

Moon 51066-12-11 09:36 G 20372877.80 20372877.90 20372878.01 0.2668 0.0846

Earth 51066-12-11 10:05 G 20372877.82 20372877.92 20372878.03 0.2664 0.0742 *

Venus 51067-07-22 20:10 G 20373101.17 20373101.34 20373101.50 0.3683 0.0124

Saturn 51068-12-24 16:48 G 20373622.16 20373622.20 20373622.26 0.0261 0.0251

Saturn 51069-03-23 13:41 G 20373710.89 20373711.07 20373711.25 0.0261 0.0073

Saturn 51069-06-20 10:34 G 20373799.77 20373799.94 20373800.12 0.0261 0.0105

Uranus 51069-06-21 04:34 G 20373800.69 20373800.69 20373800.69 0.0139 0.0139

Uranus 51069-09-17 12:14 G 20373888.90 20373889.01 20373889.15 0.0139 0.0109

Uranus 51069-12-14 20:24 G 20373977.20 20373977.35 20373977.52 0.0139 0.0078

Uranus 51070-03-13 04:34 G 20374065.51 20374065.69 20374065.88 0.0139 0.0047

Venus 51070-04-30 02:10 G 20374113.51 20374113.59 20374113.66 0.3687 0.2386

Uranus 51070-06-09 12:43 G 20374153.84 20374154.03 20374154.23 0.0139 0.0017

Uranus 51070-09-05 20:38 G 20374242.17 20374242.36 20374242.56 0.0138 0.0014

Uranus 51070-12-03 04:48 G 20374330.52 20374330.70 20374330.89 0.0138 0.0044

Uranus 51071-03-01 12:58 G 20374418.87 20374419.04 20374419.20 0.0138 0.0075

Uranus 51071-05-28 20:38 G 20374507.25 20374507.36 20374507.50 0.0138 0.0105

Jupiter 51071-08-20 15:22 G 20374590.97 20374591.14 20374591.32 0.0506 0.0193

Uranus 51071-08-25 04:48 G 20374595.67 20374595.70 20374595.74 0.0138 0.0135

Jupiter 51077-04-21 09:36 G 20376661.77 20376661.90 20376662.02 0.0520 0.0081

Mars 51078-09-30 03:36 G 20377188.59 20377188.65 20377188.71 0.1837 0.1527

Mars 51079-07-29 16:34 G 20377491.03 20377491.19 20377491.35 0.1698 0.0501

Moon 51079-12-14 03:36 G 20377628.54 20377628.65 20377628.75 0.2670 0.0487

Earth 51079-12-14 03:36 G 20377628.54 20377628.65 20377628.75 0.2663 0.0464 *

Jupiter 51083-06-08 12:29 G 20378900.91 20378901.02 20378901.13 0.0505 0.0400

Saturn 51083-07-25 20:53 G 20378948.28 20378948.37 20378948.47 0.0301 0.0208

Jupiter 51083-09-07 01:26 G 20378991.51 20378991.56 20378991.62 0.0508 0.0484

Saturn 51083-10-22 09:22 G 20379036.76 20379036.89 20379037.02 0.0301 0.0025

Saturn 51084-01-18 21:50 G 20379125.30 20379125.41 20379125.52 0.0301 0.0159

Mars 51088-02-20 12:58 G 20380618.92 20380619.04 20380619.15 0.1830 0.0324

Mars 51088-12-18 16:19 G 20380921.06 20380921.18 20380921.30 0.1705 0.1188

Jupiter 51089-02-07 13:55 G 20380971.97 20380972.08 20380972.19 0.0521 0.0239

Jupiter 51089-05-07 18:29 G 20381061.18 20381061.27 20381061.35 0.0519 0.0378

Moon 51089-06-13 15:36 G 20381098.03 20381098.15 20381098.28 0.2661 0.1668

Earth 51089-06-13 15:36 G 20381098.03 20381098.15 20381098.27 0.2668 0.1715 *

Earth 51092-12-15 20:53 G 20382379.28 20382379.37 20382379.45 0.2662 0.1649

Moon 51092-12-15 21:22 G 20382379.31 20382379.39 20382379.47 0.2666 0.1718 *

Jupiter 51095-06-25 22:05 G 20383301.26 20383301.42 20383301.58 0.0507 0.0265

Mars 51097-07-12 22:05 G 20384049.32 20384049.42 20384049.52 0.1823 0.0912

Saturn 51098-08-10 12:43 G 20384442.87 20384443.03 20384443.20 0.0261 0.0125

Saturn 51098-11-07 09:36 G 20384531.71 20384531.90 20384532.09 0.0261 0.0054

Saturn 51099-02-04 06:29 G 20384620.69 20384620.77 20384620.86 0.0261 0.0234

Moon 51099-12-09 20:53 G 20384929.29 20384929.37 20384929.44 0.2666 0.1874

Earth 51099-12-09 21:36 G 20384929.31 20384929.40 20384929.48 0.2665 0.1716 *

Jupiter 51100-11-27 18:00 G 20385282.18 20385282.25 20385282.33 0.0522 0.0402

Jupiter 51101-02-24 22:48 G 20385371.34 20385371.45 20385371.56 0.0520 0.0221

Moon 51102-06-17 23:02 G 20385849.30 20385849.46 20385849.61 0.2665 0.0948

Earth 51102-06-18 00:14 G 20385849.36 20385849.51 20385849.66 0.2669 0.1082 *

Jupiter 51107-04-14 18:14 G 20387611.08 20387611.26 20387611.45 0.0506 0.0044

Neptune 51109-12-07 02:38 G 20388578.58 20388578.61 20388578.65 0.0088 0.0087

Neptune 51110-03-05 06:00 G 20388666.67 20388666.75 20388666.87 0.0088 0.0076

Venus 51110-04-23 02:24 G 20388715.58 20388715.60 20388715.62 0.3688 0.3573

Neptune 51110-06-01 09:36 G 20388754.79 20388754.90 20388755.06 0.0088 0.0065

Neptune 51110-08-28 13:41 G 20388842.92 20388843.07 20388843.23 0.0088 0.0053

Neptune 51110-11-24 17:17 G 20388931.06 20388931.22 20388931.40 0.0088 0.0041

Neptune 51111-02-20 21:07 G 20389019.20 20389019.38 20389019.57 0.0088 0.0030

Neptune 51111-05-20 00:43 G 20389107.34 20389107.53 20389107.73 0.0088 0.0019

Neptune 51111-08-16 04:34 G 20389195.49 20389195.69 20389195.89 0.0088 0.0007

Neptune 51111-11-12 08:10 G 20389283.65 20389283.84 20389284.04 0.0088 0.0005

Neptune 51112-02-08 12:00 G 20389371.80 20389372.00 20389372.19 0.0088 0.0016

Neptune 51112-05-06 15:22 G 20389459.96 20389460.14 20389460.34 0.0088 0.0028

Neptune 51112-08-02 19:12 G 20389548.13 20389548.30 20389548.48 0.0088 0.0039

Neptune 51112-10-29 22:34 G 20389636.30 20389636.44 20389636.62 0.0088 0.0051

Moon 51112-12-12 14:38 G 20389680.00 20389680.11 20389680.21 0.2669 0.0505

Earth 51112-12-12 14:53 G 20389680.02 20389680.12 20389680.23 0.2664 0.0510 *

Saturn 51112-12-12 23:02 G 20389680.40 20389680.46 20389680.53 0.0301 0.0258

Jupiter 51112-12-14 03:36 G 20389681.53 20389681.65 20389681.78 0.0520 0.0074

Neptune 51113-01-26 02:24 G 20389724.47 20389724.60 20389724.76 0.0088 0.0062

Saturn 51113-03-11 11:46 G 20389768.86 20389768.99 20389769.12 0.0300 0.0073

Uranus 51113-03-12 01:55 G 20389769.51 20389769.58 20389769.64 0.0139 0.0119

Neptune 51113-04-24 06:00 G 20389812.66 20389812.75 20389812.88 0.0088 0.0074

Saturn 51113-06-08 00:00 G 20389857.39 20389857.50 20389857.63 0.0300 0.0110

Uranus 51113-06-08 05:02 G 20389857.62 20389857.71 20389857.80 0.0139 0.0099 *

Neptune 51113-07-21 09:50 G 20389900.87 20389900.91 20389900.98 0.0089 0.0085

Uranus 51113-09-04 08:24 G 20389945.74 20389945.85 20389945.95 0.0139 0.0079

Saturn 51113-09-04 12:29 G 20389945.99 20389946.02 20389946.05 0.0300 0.0290

Uranus 51113-12-01 11:31 G 20390033.86 20390033.98 20390034.10 0.0139 0.0058

Uranus 51114-02-27 14:53 G 20390121.99 20390122.12 20390122.24 0.0139 0.0038

Uranus 51114-05-26 18:00 G 20390210.12 20390210.25 20390210.38 0.0140 0.0017

Uranus 51114-08-22 21:22 G 20390298.26 20390298.39 20390298.52 0.0140 0.0004

Uranus 51114-11-19 00:29 G 20390386.39 20390386.52 20390386.65 0.0140 0.0025

Uranus 51115-02-15 03:50 G 20390474.53 20390474.66 20390474.78 0.0140 0.0045

Uranus 51115-05-14 06:58 G 20390562.68 20390562.79 20390562.91 0.0140 0.0066

Uranus 51115-08-10 10:05 G 20390650.83 20390650.92 20390651.03 0.0140 0.0087

Uranus 51115-11-06 13:26 G 20390738.98 20390739.06 20390739.15 0.0140 0.0108

Venus 51115-11-06 17:31 G 20390739.13 20390739.23 20390739.32 0.3687 0.1318 *

Uranus 51116-02-02 16:34 G 20390827.15 20390827.19 20390827.25 0.0140 0.0129

Mars 51118-04-01 03:36 G 20391615.61 20391615.65 20391615.69 0.1837 0.1695

Mars 51119-01-28 17:17 G 20391918.07 20391918.22 20391918.37 0.1698 0.0733

Jupiter 51119-01-31 13:26 G 20391920.88 20391921.06 20391921.23 0.0505 0.0193

Venus 51121-05-22 08:24 G 20392762.75 20392762.85 20392762.95 0.3687 0.0952

Venus 51124-02-27 23:02 G 20393774.37 20393774.46 20393774.56 0.3683 0.2928

Jupiter 51124-10-02 08:38 G 20393991.73 20393991.86 20393991.99 0.0521 0.0071

Moon 51125-12-15 08:24 G 20394430.74 20394430.85 20394430.95 0.2669 0.0668

Earth 51125-12-15 08:24 G 20394430.74 20394430.85 20394430.95 0.2663 0.0698 *

Venus 51126-12-05 23:17 G 20394786.43 20394786.47 20394786.52 0.3687 0.3221

Mars 51127-08-22 12:43 G 20395045.92 20395046.03 20395046.14 0.1830 0.0466

Saturn 51127-12-29 11:46 G 20395174.86 20395174.99 20395175.13 0.0260 0.0177

Saturn 51128-03-27 08:38 G 20395263.67 20395263.86 20395264.05 0.0261 0.0001

Mars 51128-06-19 17:02 G 20395348.07 20395348.21 20395348.34 0.1704 0.0953

Saturn 51128-06-24 05:31 G 20395352.59 20395352.73 20395352.87 0.0261 0.0180

Jupiter 51130-11-19 10:19 G 20396230.82 20396230.93 20396231.04 0.0505 0.0401

Jupiter 51131-02-17 23:17 G 20396321.42 20396321.47 20396321.53 0.0508 0.0482

Moon 51135-06-15 22:34 G 20397900.29 20397900.44 20397900.58 0.2661 0.1273

Earth 51135-06-15 22:34 G 20397900.30 20397900.44 20397900.59 0.2668 0.1204 *

Jupiter 51136-07-21 13:12 G 20398301.93 20398302.05 20398302.16 0.0521 0.0226

Jupiter 51136-10-18 17:31 G 20398391.15 20398391.23 20398391.32 0.0519 0.0390

Mars 51137-01-11 22:05 G 20398476.31 20398476.42 20398476.53 0.1824 0.0742

Earth 51138-12-18 01:26 G 20399181.49 20399181.56 20399181.64 0.2662 0.1872

Moon 51138-12-18 02:10 G 20399181.52 20399181.59 20399181.66 0.2665 0.1969 *

Saturn 51142-07-29 12:14 G 20400500.90 20400501.01 20400501.12 0.0301 0.0148

Saturn 51142-10-26 00:43 G 20400589.40 20400589.53 20400589.66 0.0301 0.0036

Jupiter 51142-12-06 20:24 G 20400631.19 20400631.35 20400631.50 0.0507 0.0270

Saturn 51143-01-22 12:58 G 20400677.96 20400678.04 20400678.13 0.0301 0.0218

Moon 51145-12-11 01:41 G 20401731.48 20401731.57 20401731.66 0.2666 0.1515

Earth 51145-12-11 02:24 G 20401731.51 20401731.60 20401731.69 0.2665 0.1488 *

Jupiter 51148-05-09 17:31 G 20402612.15 20402612.23 20402612.32 0.0522 0.0383

Moon 51148-06-18 05:46 G 20402651.60 20402651.74 20402651.87 0.2665 0.1436

Earth 51148-06-18 07:12 G 20402651.67 20402651.80 20402651.93 0.2669 0.1594 *

Jupiter 51148-08-06 22:05 G 20402701.31 20402701.42 20402701.54 0.0519 0.0238

Pluto 51151-03-27 23:17 G 20403664.44 20403664.47 20403664.51 0.0068 0.0065

Pluto 51151-06-23 23:46 G 20403752.42 20403752.49 20403752.58 0.0068 0.0054

Pluto 51151-09-20 00:14 G 20403840.42 20403840.51 20403840.63 0.0068 0.0044

Pluto 51151-12-17 00:58 G 20403928.43 20403928.54 20403928.67 0.0068 0.0033

Pluto 51152-03-14 01:41 G 20404016.44 20404016.57 20404016.70 0.0068 0.0022

Pluto 51152-06-10 02:10 G 20404104.46 20404104.59 20404104.73 0.0068 0.0012

Pluto 51152-09-06 02:53 G 20404192.48 20404192.62 20404192.76 0.0068 0.0001

Pluto 51152-12-03 03:22 G 20404280.51 20404280.64 20404280.78 0.0068 0.0010

Pluto 51153-03-01 03:50 G 20404368.54 20404368.66 20404368.80 0.0068 0.0022

Pluto 51153-05-28 04:19 G 20404456.57 20404456.68 20404456.81 0.0068 0.0033

Uranus 51153-07-12 11:17 G 20404501.92 20404501.97 20404502.03 0.0139 0.0132

Pluto 51153-08-24 04:48 G 20404544.61 20404544.70 20404544.82 0.0069 0.0044

Uranus 51153-10-08 19:12 G 20404590.18 20404590.30 20404590.44 0.0139 0.0102

Pluto 51153-11-20 05:31 G 20404632.66 20404632.73 20404632.82 0.0069 0.0054

Uranus 51154-01-05 03:07 G 20404678.48 20404678.63 20404678.81 0.0139 0.0072

Pluto 51154-02-16 06:00 G 20404720.73 20404720.75 20404720.81 0.0069 0.0066

Uranus 51154-04-03 11:31 G 20404766.79 20404766.98 20404767.17 0.0139 0.0041

Uranus 51154-06-30 19:26 G 20404855.12 20404855.31 20404855.51 0.0139 0.0011

Jupiter 51154-09-24 17:02 G 20404941.03 20404941.21 20404941.40 0.0506 0.0056

Uranus 51154-09-27 03:36 G 20404943.46 20404943.65 20404943.85 0.0138 0.0020

Uranus 51154-12-24 11:46 G 20405031.80 20405031.99 20405032.17 0.0138 0.0051

Uranus 51155-03-22 19:26 G 20405120.16 20405120.31 20405120.48 0.0138 0.0081

Uranus 51155-06-19 03:36 G 20405208.54 20405208.65 20405208.77 0.0138 0.0111

Saturn 51157-05-17 10:19 G 20405906.85 20405906.93 20405907.01 0.0261 0.0234

Saturn 51157-08-14 06:58 G 20405995.61 20405995.79 20405995.98 0.0261 0.0057

Mars 51157-09-30 03:22 G 20406042.64 20406042.64 20406042.65 0.1837 0.1832

Saturn 51157-11-11 03:50 G 20406084.50 20406084.66 20406084.83 0.0261 0.0123

Mars 51158-07-29 18:00 G 20406345.11 20406345.25 20406345.38 0.1698 0.0973

Moon 51158-12-13 19:26 G 20406482.20 20406482.31 20406482.42 0.2670 0.0374

Earth 51158-12-13 19:41 G 20406482.21 20406482.32 20406482.43 0.2664 0.0278 *

Jupiter 51160-05-26 02:24 G 20407011.48 20407011.60 20407011.73 0.0520 0.0081

Jupiter 51166-07-13 13:26 G 20409250.88 20409251.06 20409251.24 0.0505 0.0162

Venus 51166-11-27 23:46 G 20409388.42 20409388.49 20409388.55 0.3688 0.2739

Mars 51167-02-20 12:43 G 20409472.92 20409473.03 20409473.14 0.1831 0.0621

Mars 51167-12-19 17:46 G 20409775.09 20409775.24 20409775.39 0.1704 0.0712

Earth 51171-12-16 12:58 G 20411232.94 20411233.04 20411233.15 0.2663 0.0922

Moon 51171-12-16 13:12 G 20411232.95 20411233.05 20411233.15 0.2669 0.0993 *

Saturn 51171-12-16 14:10 G 20411233.00 20411233.09 20411233.18 0.0301 0.0203 *

Saturn 51172-03-14 02:38 G 20411321.48 20411321.61 20411321.74 0.0300 0.0019

Jupiter 51172-03-14 07:12 G 20411321.68 20411321.80 20411321.93 0.0521 0.0071 *

Saturn 51172-06-10 14:53 G 20411410.02 20411410.12 20411410.23 0.0300 0.0163

Venus 51172-06-12 14:38 G 20411412.01 20411412.11 20411412.21 0.3687 0.0484

Venus 51175-03-20 13:26 G 20412423.00 20412423.06 20412423.13 0.3683 0.3333

Mars 51176-07-12 22:05 G 20412903.31 20412903.42 20412903.53 0.1823 0.0583

Venus 51177-12-27 05:46 G 20413435.65 20413435.74 20413435.82 0.3687 0.1796

Jupiter 51178-05-01 08:38 G 20413560.75 20413560.86 20413560.97 0.0505 0.0396

Jupiter 51178-07-30 21:36 G 20413651.35 20413651.40 20413651.45 0.0507 0.0486

Moon 51178-12-09 12:58 G 20413783.01 20413783.04 20413783.07 0.2664 0.2545

Earth 51178-12-09 13:41 G 20413783.03 20413783.07 20413783.11 0.2666 0.2470 *

Moon 51181-06-16 04:48 G 20414702.54 20414702.70 20414702.86 0.2662 0.0684

Earth 51181-06-16 05:31 G 20414702.57 20414702.73 20414702.88 0.2668 0.0710 *

Jupiter 51184-01-01 12:14 G 20415631.90 20415632.01 20415632.13 0.0521 0.0213

Jupiter 51184-03-30 16:48 G 20415721.12 20415721.20 20415721.28 0.0519 0.0404

Earth 51184-12-18 06:14 G 20415983.70 20415983.76 20415983.83 0.2661 0.2097

Moon 51184-12-18 06:58 G 20415983.73 20415983.79 20415983.85 0.2665 0.2151 *

Mars 51185-12-03 07:12 G 20416333.79 20416333.80 20416333.82 0.1817 0.1786

Saturn 51187-01-01 06:00 G 20416727.58 20416727.75 20416727.93 0.0260 0.0109

Saturn 51187-03-31 02:53 G 20416816.43 20416816.62 20416816.80 0.0261 0.0069

Saturn 51187-06-27 23:31 G 20416905.44 20416905.48 20416905.55 0.0261 0.0249

Neptune 51190-04-06 17:17 G 20417919.22 20417919.22 20417919.23 0.0089 0.0089

Jupiter 51190-05-18 18:14 G 20417961.11 20417961.26 20417961.42 0.0507 0.0272

Neptune 51190-07-03 18:29 G 20418007.23 20418007.27 20418007.33 0.0089 0.0081

Neptune 51190-09-29 19:41 G 20418095.26 20418095.32 20418095.41 0.0089 0.0073

Neptune 51190-12-26 21:07 G 20418183.30 20418183.38 20418183.47 0.0089 0.0065

Neptune 51191-03-24 22:34 G 20418271.34 20418271.44 20418271.54 0.0089 0.0057

Neptune 51191-06-20 23:31 G 20418359.38 20418359.48 20418359.60 0.0089 0.0050

Neptune 51191-09-17 00:58 G 20418447.43 20418447.54 20418447.66 0.0089 0.0042

Moon 51191-12-12 06:29 G 20418533.68 20418533.77 20418533.86 0.2667 0.1373

Earth 51191-12-12 07:12 G 20418533.70 20418533.80 20418533.89 0.2665 0.1253 *

Neptune 51191-12-14 02:24 G 20418535.48 20418535.60 20418535.72 0.0089 0.0034

Neptune 51192-03-11 03:50 G 20418623.53 20418623.66 20418623.78 0.0089 0.0026

Neptune 51192-06-07 04:48 G 20418711.58 20418711.70 20418711.84 0.0089 0.0019

Neptune 51192-09-03 06:14 G 20418799.63 20418799.76 20418799.89 0.0089 0.0011

Neptune 51192-11-30 07:41 G 20418887.68 20418887.82 20418887.95 0.0089 0.0004

Neptune 51193-02-26 08:53 G 20418975.74 20418975.87 20418976.00 0.0089 0.0005

Neptune 51193-05-25 10:05 G 20419063.79 20419063.92 20419064.05 0.0089 0.0013

Neptune 51193-08-21 11:17 G 20419151.85 20419151.97 20419152.10 0.0089 0.0021

Neptune 51193-11-17 12:43 G 20419239.90 20419240.03 20419240.15 0.0089 0.0028

Neptune 51194-02-13 13:55 G 20419327.96 20419328.08 20419328.20 0.0089 0.0036

Neptune 51194-05-12 15:07 G 20419416.02 20419416.13 20419416.25 0.0089 0.0044

Moon 51194-06-19 12:29 G 20419453.91 20419454.02 20419454.14 0.2665 0.1899

Earth 51194-06-19 14:10 G 20419453.99 20419454.09 20419454.19 0.2670 0.2112 *

Neptune 51194-08-08 16:34 G 20419504.08 20419504.19 20419504.29 0.0089 0.0051

Neptune 51194-11-04 17:31 G 20419592.14 20419592.23 20419592.34 0.0089 0.0059

Neptune 51195-01-31 18:43 G 20419680.21 20419680.28 20419680.38 0.0089 0.0067

Neptune 51195-04-29 19:55 G 20419768.28 20419768.33 20419768.42 0.0089 0.0075

Neptune 51195-07-26 21:22 G 20419856.35 20419856.39 20419856.45 0.0089 0.0082

Jupiter 51195-10-20 16:48 G 20419942.11 20419942.20 20419942.29 0.0522 0.0367

Jupiter 51196-01-17 21:22 G 20420031.28 20420031.39 20420031.50 0.0519 0.0254

Uranus 51197-01-03 06:00 G 20420382.72 20420382.75 20420382.79 0.0139 0.0133

Uranus 51197-04-01 09:07 G 20420470.82 20420470.88 20420470.96 0.0139 0.0113

Uranus 51197-06-28 12:29 G 20420558.93 20420559.02 20420559.12 0.0139 0.0093

Uranus 51197-09-24 15:50 G 20420647.05 20420647.16 20420647.27 0.0139 0.0072

Uranus 51197-12-21 18:58 G 20420735.17 20420735.29 20420735.42 0.0139 0.0052

Mars 51198-01-27 18:29 G 20420772.16 20420772.27 20420772.39 0.1698 0.1199

Uranus 51198-03-19 22:19 G 20420823.30 20420823.43 20420823.56 0.0140 0.0031

Uranus 51198-06-16 01:41 G 20420911.44 20420911.57 20420911.70 0.0140 0.0011

Uranus 51198-09-12 04:48 G 20420999.57 20420999.70 20420999.83 0.0140 0.0011

Uranus 51198-12-09 08:10 G 20421087.71 20421087.84 20421087.96 0.0140 0.0031

Uranus 51199-03-07 11:17 G 20421175.85 20421175.97 20421176.09 0.0140 0.0052

Uranus 51199-06-03 14:24 G 20421264.00 20421264.10 20421264.22 0.0140 0.0073

Uranus 51199-08-30 17:46 G 20421352.15 20421352.24 20421352.34 0.0140 0.0093

Uranus 51199-11-26 20:53 G 20421440.30 20421440.37 20421440.45 0.0140 0.0114

Uranus 51200-02-23 00:00 G 20421528.48 20421528.50 20421528.55 0.0140 0.0136

Saturn 51201-05-04 14:10 G 20421965.05 20421965.09 20421965.14 0.0301 0.0282

Saturn 51201-08-01 02:38 G 20422053.49 20422053.61 20422053.74 0.0301 0.0098

Saturn 51201-10-28 15:07 G 20422142.01 20422142.13 20422142.26 0.0301 0.0086

Saturn 51202-01-25 03:22 G 20422230.59 20422230.64 20422230.70 0.0301 0.0268

Jupiter 51202-03-06 15:22 G 20422270.96 20422271.14 20422271.33 0.0506 0.0064

Moon 51204-12-14 00:14 G 20423284.40 20423284.51 20423284.62 0.2670 0.0019

Earth 51204-12-14 00:29 G 20423284.41 20423284.52 20423284.63 0.2663 0.0048 *

Mars 51206-08-21 12:43 G 20423899.93 20423900.03 20423900.13 0.1830 0.0776

Mars 51207-06-19 18:14 G 20424202.10 20424202.26 20424202.42 0.1704 0.0496

Jupiter 51207-11-06 01:55 G 20424341.46 20424341.58 20424341.71 0.0520 0.0102

Jupiter 51213-12-23 12:29 G 20426580.84 20426581.02 20426581.20 0.0506 0.0147

Mars 51216-01-11 21:50 G 20427330.30 20427330.41 20427330.53 0.1823 0.0444

Saturn 51216-05-20 03:50 G 20427459.52 20427459.66 20427459.81 0.0261 0.0171

Saturn 51216-08-17 00:43 G 20427548.34 20427548.53 20427548.72 0.0261 0.0007

Saturn 51216-11-13 21:36 G 20427637.27 20427637.40 20427637.53 0.0261 0.0186

Earth 51217-12-16 17:46 G 20428035.14 20428035.24 20428035.34 0.2662 0.1144

Moon 51217-12-16 18:14 G 20428035.16 20428035.26 20428035.35 0.2668 0.1141 *

Jupiter 51219-08-25 06:14 G 20428651.64 20428651.76 20428651.89 0.0521 0.0060

Venus 51223-07-04 20:53 G 20430061.29 20430061.37 20430061.46 0.3687 0.1912

Moon 51224-12-09 17:46 G 20430585.19 20430585.24 20430585.29 0.2664 0.2323

Earth 51224-12-09 18:29 G 20430585.21 20430585.27 20430585.32 0.2666 0.2232 *

Mars 51225-06-03 07:12 G 20430760.75 20430760.80 20430760.85 0.1817 0.1628

Jupiter 51225-10-11 08:53 G 20430890.75 20430890.87 20430891.01 0.0505 0.0361

Moon 51227-06-17 11:17 G 20431504.81 20431504.97 20431505.13 0.2663 0.0419

Earth 51227-06-17 12:14 G 20431504.85 20431505.01 20431505.17 0.2668 0.0206 *

Venus 51229-01-17 12:00 G 20432084.90 20432085.00 20432085.10 0.3687 0.0362

Saturn 51230-12-19 04:34 G 20432785.58 20432785.69 20432785.80 0.0301 0.0154

Earth 51230-12-19 11:02 G 20432785.91 20432785.96 20432786.01 0.2661 0.2320

Moon 51230-12-19 11:46 G 20432785.95 20432785.99 20432786.03 0.2664 0.2447 *

Saturn 51231-03-17 17:02 G 20432874.08 20432874.21 20432874.34 0.0300 0.0030

Jupiter 51231-06-13 11:02 G 20432961.85 20432961.96 20432962.08 0.0521 0.0207

Saturn 51231-06-14 05:17 G 20432962.63 20432962.72 20432962.81 0.0300 0.0211

Jupiter 51231-09-10 15:36 G 20433051.08 20433051.15 20433051.23 0.0519 0.0410

Venus 51231-10-25 16:34 G 20433096.03 20433096.19 20433096.35 0.3683 0.0304

Venus 51234-08-03 02:53 G 20434108.56 20434108.62 20434108.69 0.3687 0.2634

Mars 51237-07-28 19:12 G 20435199.21 20435199.30 20435199.39 0.1698 0.1429

Uranus 51237-08-01 18:00 G 20435203.18 20435203.25 20435203.34 0.0139 0.0126

Jupiter 51237-10-28 16:48 G 20435291.05 20435291.20 20435291.36 0.0507 0.0280

Uranus 51237-10-29 02:10 G 20435291.46 20435291.59 20435291.74 0.0139 0.0095

Moon 51237-12-12 11:17 G 20435335.87 20435335.97 20435336.07 0.2669 0.1066

Earth 51237-12-12 11:46 G 20435335.89 20435335.99 20435336.10 0.2664 0.1024 *

Pluto 51238-01-15 16:34 G 20435370.09 20435370.19 20435370.33 0.0076 0.0059

Uranus 51238-01-25 10:19 G 20435379.76 20435379.93 20435380.11 0.0139 0.0065

Pluto 51238-04-13 19:12 G 20435458.15 20435458.30 20435458.47 0.0076 0.0037

Uranus 51238-04-23 18:14 G 20435468.08 20435468.26 20435468.46 0.0139 0.0035

Pluto 51238-07-10 21:36 G 20435546.22 20435546.40 20435546.59 0.0076 0.0016

Uranus 51238-07-21 02:24 G 20435556.41 20435556.60 20435556.80 0.0138 0.0004

Pluto 51238-10-07 00:00 G 20435634.32 20435634.50 20435634.69 0.0076 0.0005

Uranus 51238-10-17 10:19 G 20435644.75 20435644.93 20435645.13 0.0138 0.0028

Pluto 51239-01-03 02:10 G 20435722.43 20435722.59 20435722.78 0.0076 0.0026

Uranus 51239-01-13 18:29 G 20435733.10 20435733.27 20435733.45 0.0138 0.0057

Pluto 51239-04-01 04:34 G 20435810.55 20435810.69 20435810.85 0.0076 0.0046

Uranus 51239-04-12 02:38 G 20435821.46 20435821.61 20435821.76 0.0138 0.0088

Pluto 51239-06-28 06:43 G 20435898.71 20435898.78 20435898.88 0.0076 0.0067

Uranus 51239-07-09 10:19 G 20435909.84 20435909.93 20435910.04 0.0138 0.0118

Moon 51240-06-19 19:26 G 20436256.25 20436256.31 20436256.36 0.2666 0.2490

Earth 51240-06-19 20:53 G 20436256.34 20436256.37 20436256.40 0.2670 0.2613 *

Jupiter 51243-04-01 16:05 G 20437272.08 20437272.17 20437272.26 0.0522 0.0353

Jupiter 51243-06-29 20:38 G 20437361.26 20437361.36 20437361.47 0.0520 0.0270

Saturn 51245-10-07 02:38 G 20438191.53 20438191.61 20438191.72 0.0260 0.0224

Saturn 51246-01-03 23:31 G 20438280.29 20438280.48 20438280.67 0.0260 0.0047

Mars 51246-02-19 12:43 G 20438326.93 20438327.03 20438327.13 0.1830 0.0934

Saturn 51246-04-02 20:24 G 20438369.19 20438369.35 20438369.52 0.0261 0.0132

Mars 51246-12-18 18:58 G 20438629.12 20438629.29 20438629.45 0.1704 0.0249

Jupiter 51249-08-16 13:41 G 20439600.89 20439601.07 20439601.26 0.0506 0.0068

Moon 51250-12-15 05:02 G 20440086.61 20440086.71 20440086.82 0.2670 0.0136

Earth 51250-12-15 05:17 G 20440086.61 20440086.72 20440086.83 0.2663 0.0185 *

Jupiter 51255-01-18 20:38 G 20441582.33 20441582.36 20441582.39 0.0522 0.0508

Jupiter 51255-04-18 01:26 G 20441671.44 20441671.56 20441671.68 0.0520 0.0119

Mars 51255-07-12 22:05 G 20441757.30 20441757.42 20441757.53 0.1823 0.0287

Saturn 51260-05-07 04:34 G 20443517.61 20443517.69 20443517.77 0.0301 0.0235

Earth 51260-06-14 10:34 G 20443555.89 20443555.94 20443556.00 0.2667 0.2469

Moon 51260-06-14 10:48 G 20443555.90 20443555.95 20443556.00 0.2661 0.2517 *

Saturn 51260-08-03 17:02 G 20443606.08 20443606.21 20443606.34 0.0301 0.0051

Saturn 51260-10-31 05:31 G 20443694.61 20443694.73 20443694.84 0.0301 0.0132

Jupiter 51261-06-04 11:02 G 20443910.78 20443910.96 20443911.14 0.0506 0.0139

Earth 51263-12-17 22:34 G 20444837.35 20444837.44 20444837.53 0.2662 0.1371

Moon 51263-12-17 23:02 G 20444837.37 20444837.46 20444837.55 0.2668 0.1495 *

Mars 51264-12-02 07:12 G 20445187.73 20445187.80 20445187.87 0.1816 0.1475

Jupiter 51267-02-04 06:00 G 20445981.62 20445981.75 20445981.88 0.0520 0.0035

Moon 51270-12-10 22:34 G 20447387.37 20447387.44 20447387.51 0.2665 0.2097

Earth 51270-12-10 23:17 G 20447387.40 20447387.47 20447387.54 0.2666 0.1995 *

Jupiter 51273-03-23 08:10 G 20448220.70 20448220.84 20448220.97 0.0505 0.0345

Moon 51273-06-17 18:00 G 20448307.08 20448307.25 20448307.41 0.2663 0.0278

Earth 51273-06-17 18:58 G 20448307.13 20448307.29 20448307.45 0.2668 0.0298 *

Venus 51274-07-26 03:22 G 20448710.60 20448710.64 20448710.68 0.3688 0.3337

Neptune 51274-09-03 01:12 G 20448749.48 20448749.55 20448749.62 0.0088 0.0082

Neptune 51274-11-30 04:34 G 20448837.59 20448837.69 20448837.82 0.0088 0.0071

Neptune 51275-02-26 08:10 G 20448925.71 20448925.84 20448926.00 0.0088 0.0060

Saturn 51275-05-23 21:07 G 20449012.21 20449012.38 20449012.55 0.0261 0.0111

Neptune 51275-05-25 12:14 G 20449013.85 20449014.01 20449014.18 0.0088 0.0048

Saturn 51275-08-20 17:46 G 20449101.06 20449101.24 20449101.43 0.0261 0.0068

Neptune 51275-08-21 15:50 G 20449101.99 20449102.16 20449102.34 0.0088 0.0036

Saturn 51275-11-17 14:53 G 20449190.06 20449190.12 20449190.18 0.0261 0.0247

Neptune 51275-11-17 19:26 G 20449190.13 20449190.31 20449190.51 0.0088 0.0025 *

Neptune 51276-02-13 23:17 G 20449278.28 20449278.47 20449278.67 0.0088 0.0014

Neptune 51276-05-12 03:07 G 20449366.43 20449366.63 20449366.82 0.0088 0.0003

Neptune 51276-08-08 06:43 G 20449454.58 20449454.78 20449454.98 0.0088 0.0009

Neptune 51276-11-04 10:19 G 20449542.74 20449542.93 20449543.13 0.0088 0.0021

Earth 51276-12-19 15:50 G 20449588.13 20449588.16 20449588.19 0.2661 0.2546

Moon 51276-12-19 16:19 G 20449588.16 20449588.18 20449588.21 0.2662 0.2578 *

Mars 51277-01-26 19:55 G 20449626.31 20449626.33 20449626.35 0.1698 0.1677

Neptune 51277-01-31 13:55 G 20449630.91 20449631.08 20449631.27 0.0088 0.0033

Neptune 51277-04-29 17:46 G 20449719.07 20449719.24 20449719.42 0.0088 0.0044

Neptune 51277-07-26 21:07 G 20449807.25 20449807.38 20449807.55 0.0088 0.0056

Neptune 51277-10-23 01:12 G 20449895.43 20449895.55 20449895.68 0.0088 0.0067

Neptune 51278-01-19 04:34 G 20449983.62 20449983.69 20449983.80 0.0088 0.0079

Jupiter 51278-11-23 10:19 G 20450291.81 20450291.93 20450292.04 0.0521 0.0196

Jupiter 51279-02-20 14:38 G 20450381.04 20450381.11 20450381.19 0.0519 0.0421

Venus 51280-02-08 18:14 G 20450734.17 20450734.26 20450734.36 0.3687 0.1072

Uranus 51281-01-23 13:12 G 20451084.01 20451084.05 20451084.11 0.0139 0.0128

Uranus 51281-04-21 16:34 G 20451172.11 20451172.19 20451172.28 0.0139 0.0108

Uranus 51281-07-18 19:41 G 20451260.23 20451260.32 20451260.43 0.0139 0.0088

Uranus 51281-10-14 23:02 G 20451348.35 20451348.46 20451348.58 0.0139 0.0067

Uranus 51282-01-11 02:24 G 20451436.48 20451436.60 20451436.73 0.0140 0.0046

Uranus 51282-04-09 05:46 G 20451524.61 20451524.74 20451524.87 0.0140 0.0025

Uranus 51282-07-06 08:53 G 20451612.74 20451612.87 20451613.00 0.0140 0.0005

Uranus 51282-10-02 12:14 G 20451700.88 20451701.01 20451701.14 0.0140 0.0016

Uranus 51282-12-29 15:22 G 20451789.02 20451789.14 20451789.27 0.0140 0.0037

Uranus 51283-03-27 18:43 G 20451877.16 20451877.28 20451877.40 0.0140 0.0057

Uranus 51283-06-23 21:50 G 20451965.31 20451965.41 20451965.52 0.0140 0.0078

Uranus 51283-09-20 00:58 G 20452053.46 20452053.54 20452053.64 0.0140 0.0099

Moon 51283-12-13 16:19 G 20452138.07 20452138.18 20452138.28 0.2670 0.0859

Earth 51283-12-13 16:48 G 20452138.09 20452138.20 20452138.30 0.2664 0.0789 *

Uranus 51283-12-17 04:05 G 20452141.62 20452141.67 20452141.75 0.0140 0.0121

Jupiter 51285-04-09 17:17 G 20452621.08 20452621.22 20452621.37 0.0507 0.0319

Mars 51285-08-20 12:43 G 20452753.94 20452754.03 20452754.12 0.1830 0.1084

Venus 51285-08-24 09:22 G 20452757.79 20452757.89 20452757.98 0.3687 0.1211

Mars 51286-06-18 19:41 G 20453056.15 20453056.32 20453056.48 0.1704 0.0032

Venus 51288-05-31 19:26 G 20453769.20 20453769.31 20453769.42 0.3683 0.2715

Saturn 51289-09-24 06:14 G 20454249.74 20454249.76 20454249.78 0.0301 0.0295

Saturn 51289-12-21 18:43 G 20454338.16 20454338.28 20454338.40 0.0301 0.0110

Saturn 51290-03-20 06:58 G 20454426.67 20454426.79 20454426.92 0.0300 0.0074

Saturn 51290-06-16 19:26 G 20454515.24 20454515.31 20454515.38 0.0300 0.0254

Jupiter 51290-09-11 14:53 G 20454602.03 20454602.12 20454602.22 0.0522 0.0346

Jupiter 51290-12-09 19:41 G 20454691.21 20454691.32 20454691.43 0.0519 0.0277

Venus 51291-03-10 00:14 G 20454781.48 20454781.51 20454781.54 0.3687 0.3462

Mars 51295-01-10 22:05 G 20456184.30 20456184.42 20456184.53 0.1823 0.0127

Moon 51296-12-15 10:05 G 20456888.81 20456888.92 20456889.02 0.2670 0.0453

Earth 51296-12-15 10:05 G 20456888.81 20456888.92 20456889.02 0.2663 0.0419 *

Jupiter 51297-01-26 12:14 G 20456930.83 20456931.01 20456931.20 0.0506 0.0079

Jupiter 51302-07-01 19:55 G 20458912.29 20458912.33 20458912.37 0.0523 0.0493

Jupiter 51302-09-29 00:43 G 20459001.41 20459001.53 20459001.65 0.0520 0.0134

Mars 51304-06-03 07:12 G 20459614.72 20459614.80 20459614.88 0.1817 0.1322

Saturn 51304-10-10 19:55 G 20459744.19 20459744.33 20459744.49 0.0261 0.0164

Saturn 51305-01-07 16:48 G 20459833.01 20459833.20 20459833.40 0.0261 0.0015

Saturn 51305-04-06 13:41 G 20459921.95 20459922.07 20459922.20 0.0261 0.0193

Moon 51306-06-16 17:17 G 20460358.11 20460358.22 20460358.33 0.2661 0.1945

Earth 51306-06-16 17:31 G 20460358.12 20460358.23 20460358.34 0.2667 0.1973 *

Jupiter 51308-11-15 09:22 G 20461240.71 20461240.89 20461241.07 0.0506 0.0133

Earth 51309-12-19 03:22 G 20461639.55 20461639.64 20461639.72 0.2662 0.1598

Moon 51309-12-19 03:50 G 20461639.57 20461639.66 20461639.74 0.2667 0.1607 *

Jupiter 51314-07-18 05:17 G 20463311.60 20463311.72 20463311.85 0.0521 0.0024

Moon 51316-12-12 03:22 G 20464189.56 20464189.64 20464189.72 0.2667 0.1808

Earth 51316-12-12 04:05 G 20464189.59 20464189.67 20464189.75 0.2665 0.1762 *

Saturn 51319-05-11 18:43 G 20465070.19 20465070.28 20465070.39 0.0301 0.0189

Moon 51319-06-20 00:43 G 20465109.37 20465109.53 20465109.69 0.2663 0.0558

Earth 51319-06-20 01:55 G 20465109.43 20465109.58 20465109.73 0.2669 0.0797 *

Saturn 51319-08-08 07:12 G 20465158.68 20465158.80 20465158.93 0.0301 0.0011

Saturn 51319-11-04 19:41 G 20465247.22 20465247.32 20465247.42 0.0301 0.0177

Jupiter 51320-09-03 06:29 G 20465550.64 20465550.77 20465550.91 0.0505 0.0337

Uranus 51321-08-23 01:41 G 20465904.48 20465904.57 20465904.69 0.0139 0.0117

Uranus 51321-11-19 09:50 G 20465992.76 20465992.91 20465993.07 0.0139 0.0086

Uranus 51322-02-15 17:46 G 20466081.07 20466081.24 20466081.43 0.0139 0.0056

Uranus 51322-05-15 01:55 G 20466169.39 20466169.58 20466169.78 0.0139 0.0025

Uranus 51322-08-11 10:05 G 20466257.72 20466257.92 20466258.12 0.0138 0.0005

Uranus 51322-11-07 18:00 G 20466346.06 20466346.25 20466346.44 0.0138 0.0036

Uranus 51323-02-04 01:55 G 20466434.42 20466434.58 20466434.76 0.0138 0.0066

Uranus 51323-05-03 10:05 G 20466522.78 20466522.92 20466523.06 0.0138 0.0096

Uranus 51323-07-30 18:14 G 20466611.18 20466611.26 20466611.33 0.0138 0.0126

Mars 51325-02-19 12:43 G 20467180.94 20467181.03 20467181.11 0.1830 0.1245

Mars 51325-12-18 20:10 G 20467483.17 20467483.34 20467483.50 0.1704 0.0210

Jupiter 51326-05-06 09:50 G 20467621.79 20467621.91 20467622.03 0.0521 0.0172

Jupiter 51326-08-03 14:24 G 20467711.03 20467711.10 20467711.16 0.0518 0.0443

Moon 51329-12-14 21:07 G 20468940.27 20468940.38 20468940.48 0.2670 0.0625

Earth 51329-12-14 21:22 G 20468940.29 20468940.39 20468940.50 0.2664 0.0559 *

Venus 51331-03-03 00:29 G 20469383.45 20469383.52 20469383.59 0.3687 0.2503

Jupiter 51332-09-20 16:19 G 20469951.05 20469951.18 20469951.33 0.0507 0.0335

Saturn 51334-02-27 17:31 G 20470476.15 20470476.23 20470476.32 0.0261 0.0229

Saturn 51334-05-27 14:24 G 20470564.91 20470565.10 20470565.28 0.0261 0.0052

Mars 51334-07-12 21:50 G 20470611.29 20470611.41 20470611.53 0.1823 0.0024

Saturn 51334-08-24 11:02 G 20470653.80 20470653.96 20470654.13 0.0261 0.0128

Mars 51335-05-10 20:10 G 20470913.25 20470913.34 20470913.42 0.1711 0.1468

Venus 51336-09-15 15:36 G 20471407.05 20471407.15 20471407.25 0.3687 0.0278

Jupiter 51338-02-22 14:10 G 20471931.99 20471932.09 20471932.18 0.0522 0.0334

Jupiter 51338-05-22 18:43 G 20472021.18 20472021.28 20472021.38 0.0519 0.0288

Venus 51339-06-23 09:50 G 20472417.87 20472417.91 20472417.96 0.3683 0.3531

Venus 51342-04-01 06:29 G 20473430.69 20473430.77 20473430.85 0.3687 0.2034

Earth 51342-12-17 14:53 G 20473691.01 20473691.12 20473691.22 0.2663 0.0652

Moon 51342-12-17 14:53 G 20473691.02 20473691.12 20473691.23 0.2670 0.0665 *

Mars 51343-12-03 07:12 G 20474041.71 20474041.80 20474041.89 0.1817 0.1156

Jupiter 51344-07-09 12:58 G 20474260.86 20474261.04 20474261.22 0.0506 0.0117

Saturn 51348-09-27 20:24 G 20475802.28 20475802.35 20475802.42 0.0301 0.0248

Saturn 51348-12-25 08:53 G 20475890.75 20475890.87 20475891.00 0.0300 0.0064

Saturn 51349-03-23 21:22 G 20475979.27 20475979.39 20475979.51 0.0300 0.0119

Saturn 51349-06-20 09:36 G 20476067.90 20476067.90 20476067.90 0.0300 0.0300

Jupiter 51349-12-11 18:43 G 20476242.24 20476242.28 20476242.33 0.0523 0.0486

Jupiter 51350-03-10 23:31 G 20476331.36 20476331.48 20476331.60 0.0520 0.0142

Moon 51352-06-16 23:46 G 20477160.36 20477160.49 20477160.62 0.2661 0.1563

Earth 51352-06-17 00:14 G 20477160.38 20477160.51 20477160.64 0.2667 0.1486 *

Neptune 51355-01-02 17:02 G 20478090.18 20478090.21 20478090.25 0.0089 0.0085

Neptune 51355-03-31 18:29 G 20478178.21 20478178.27 20478178.33 0.0089 0.0077

Neptune 51355-06-27 19:26 G 20478266.24 20478266.31 20478266.41 0.0089 0.0070

Neptune 51355-09-23 20:53 G 20478354.28 20478354.37 20478354.47 0.0089 0.0062

Earth 51355-12-20 08:10 G 20478441.76 20478441.84 20478441.91 0.2662 0.1827

Moon 51355-12-20 08:38 G 20478441.78 20478441.86 20478441.93 0.2666 0.1942 *

Neptune 51355-12-20 22:19 G 20478442.33 20478442.43 20478442.54 0.0089 0.0054

Neptune 51356-03-17 23:31 G 20478530.38 20478530.48 20478530.60 0.0089 0.0046

Jupiter 51356-04-27 07:55 G 20478570.65 20478570.83 20478571.01 0.0505 0.0122

Neptune 51356-06-14 00:58 G 20478618.42 20478618.54 20478618.66 0.0089 0.0038

Neptune 51356-09-10 02:10 G 20478706.47 20478706.59 20478706.72 0.0089 0.0031

Neptune 51356-12-07 03:22 G 20478794.52 20478794.64 20478794.77 0.0089 0.0023

Neptune 51357-03-05 04:48 G 20478882.57 20478882.70 20478882.83 0.0089 0.0015

Neptune 51357-06-01 06:00 G 20478970.62 20478970.75 20478970.89 0.0089 0.0008

Neptune 51357-08-28 07:26 G 20479058.68 20479058.81 20479058.94 0.0089 0.0001

Neptune 51357-11-24 08:38 G 20479146.73 20479146.86 20479146.99 0.0089 0.0008

Neptune 51358-02-20 09:50 G 20479234.79 20479234.91 20479235.04 0.0089 0.0016

Neptune 51358-05-19 11:02 G 20479322.84 20479322.96 20479323.09 0.0089 0.0024

Neptune 51358-08-15 12:29 G 20479410.90 20479411.02 20479411.14 0.0089 0.0031

Neptune 51358-11-11 13:41 G 20479498.96 20479499.07 20479499.19 0.0089 0.0039

Neptune 51359-02-07 14:53 G 20479587.02 20479587.12 20479587.24 0.0089 0.0047

Neptune 51359-05-06 16:05 G 20479675.08 20479675.17 20479675.28 0.0089 0.0055

Neptune 51359-08-02 17:31 G 20479763.14 20479763.23 20479763.33 0.0089 0.0062

Neptune 51359-10-29 18:43 G 20479851.21 20479851.28 20479851.36 0.0089 0.0070

Neptune 51360-01-25 19:55 G 20479939.28 20479939.33 20479939.40 0.0089 0.0078

Neptune 51360-04-22 21:22 G 20480027.36 20480027.39 20480027.42 0.0089 0.0085

Jupiter 51361-12-28 04:34 G 20480641.56 20480641.69 20480641.82 0.0521 0.0006

Moon 51362-12-13 08:10 G 20480991.76 20480991.84 20480991.93 0.2668 0.1669

Earth 51362-12-13 08:53 G 20480991.78 20480991.87 20480991.96 0.2665 0.1529 *

Saturn 51363-10-14 13:26 G 20481296.89 20481297.06 20481297.24 0.0261 0.0102

Saturn 51364-01-11 10:19 G 20481385.75 20481385.93 20481386.12 0.0261 0.0077

Saturn 51364-04-09 06:58 G 20481474.77 20481474.79 20481474.84 0.0261 0.0257

Mars 51364-08-20 12:29 G 20481607.95 20481608.02 20481608.10 0.1830 0.1393

Uranus 51365-02-13 20:38 G 20481785.30 20481785.36 20481785.42 0.0139 0.0123

Uranus 51365-05-13 00:00 G 20481873.41 20481873.50 20481873.58 0.0139 0.0103

Mars 51365-06-18 20:53 G 20481910.21 20481910.37 20481910.53 0.1704 0.0448

Moon 51365-06-20 07:26 G 20481911.67 20481911.81 20481911.95 0.2664 0.1228

Earth 51365-06-20 08:53 G 20481911.73 20481911.87 20481912.01 0.2669 0.1300 *

Uranus 51365-08-09 03:07 G 20481961.53 20481961.63 20481961.74 0.0139 0.0082

Uranus 51365-11-05 06:29 G 20482049.65 20482049.77 20482049.88 0.0139 0.0062

Uranus 51366-02-01 09:36 G 20482137.78 20482137.90 20482138.03 0.0140 0.0041

Uranus 51366-04-30 12:58 G 20482225.91 20482226.04 20482226.17 0.0140 0.0021

Uranus 51366-07-27 16:05 G 20482314.04 20482314.17 20482314.30 0.0140 0.0002

Uranus 51366-10-23 19:26 G 20482402.18 20482402.31 20482402.44 0.0140 0.0021

Uranus 51367-01-19 22:34 G 20482490.32 20482490.44 20482490.57 0.0140 0.0042

Uranus 51367-04-18 01:55 G 20482578.46 20482578.58 20482578.69 0.0140 0.0062

Uranus 51367-07-15 05:02 G 20482666.61 20482666.71 20482666.82 0.0140 0.0083

Uranus 51367-10-11 08:10 G 20482754.76 20482754.84 20482754.93 0.0140 0.0104

Uranus 51368-01-07 11:31 G 20482842.93 20482842.98 20482843.04 0.0140 0.0125

Jupiter 51368-02-14 04:48 G 20482880.57 20482880.70 20482880.84 0.0505 0.0331

Jupiter 51373-10-16 09:07 G 20484951.76 20484951.88 20484952.00 0.0521 0.0157

Mars 51374-01-10 21:50 G 20485038.30 20485038.41 20485038.53 0.1824 0.0200

Jupiter 51374-01-13 13:41 G 20485041.02 20485041.07 20485041.13 0.0519 0.0459

Mars 51374-11-08 20:38 G 20485340.25 20485340.36 20485340.47 0.1711 0.1248

Moon 51375-12-16 01:55 G 20485742.47 20485742.58 20485742.69 0.2670 0.0346

Earth 51375-12-16 02:10 G 20485742.48 20485742.59 20485742.70 0.2664 0.0325 *

Saturn 51378-05-14 09:22 G 20486622.77 20486622.89 20486623.00 0.0301 0.0139

Saturn 51378-08-10 21:50 G 20486711.28 20486711.41 20486711.53 0.0301 0.0045

Saturn 51378-11-07 10:05 G 20486799.84 20486799.92 20486800.00 0.0300 0.0225

Jupiter 51380-03-02 14:53 G 20487280.98 20487281.12 20487281.26 0.0507 0.0341

Mars 51383-06-03 07:12 G 20488468.70 20488468.80 20488468.89 0.1816 0.1012

Jupiter 51385-08-04 13:41 G 20489261.97 20489262.07 20489262.17 0.0522 0.0312

Jupiter 51385-11-01 18:14 G 20489351.16 20489351.26 20489351.36 0.0519 0.0309

Venus 51387-10-07 21:50 G 20490056.32 20490056.41 20490056.50 0.3687 0.1679

Earth 51388-12-17 19:26 G 20490493.21 20490493.31 20490493.42 0.2663 0.0876

Moon 51388-12-17 19:41 G 20490493.22 20490493.32 20490493.43 0.2670 0.0910 *

Jupiter 51391-12-20 11:46 G 20491590.81 20491590.99 20491591.17 0.0506 0.0129

Saturn 51393-03-02 11:02 G 20492028.81 20492028.96 20492029.10 0.0261 0.0167

Venus 51393-04-22 12:43 G 20492079.93 20492080.03 20492080.13 0.3687 0.0606

Saturn 51393-05-30 07:41 G 20492117.63 20492117.82 20492118.02 0.0261 0.0012

Saturn 51393-08-27 04:19 G 20492206.56 20492206.68 20492206.82 0.0261 0.0191

Moon 51395-12-11 19:26 G 20493043.30 20493043.31 20493043.32 0.2664 0.2649

Earth 51395-12-11 20:10 G 20493043.30 20493043.34 20493043.37 0.2666 0.2513 *

Venus 51396-01-28 12:58 G 20493090.88 20493091.04 20493091.20 0.3683 0.0474

Jupiter 51397-05-23 17:46 G 20493572.19 20493572.24 20493572.29 0.0523 0.0476

Pluto 51397-08-16 12:58 G 20493657.00 20493657.04 20493657.10 0.0068 0.0062

Jupiter 51397-08-20 22:34 G 20493661.32 20493661.44 20493661.57 0.0520 0.0152

Pluto 51397-11-12 13:26 G 20493744.98 20493745.06 20493745.16 0.0068 0.0052

Pluto 51398-02-08 14:10 G 20493832.99 20493833.09 20493833.20 0.0068 0.0041

Pluto 51398-05-07 14:38 G 20493921.00 20493921.11 20493921.24 0.0068 0.0030

Moon 51398-06-18 06:29 G 20493962.62 20493962.77 20493962.92 0.2661 0.1060

Earth 51398-06-18 07:12 G 20493962.65 20493962.80 20493962.95 0.2668 0.0990 *

Pluto 51398-08-03 15:22 G 20494009.01 20494009.14 20494009.28 0.0068 0.0019

Pluto 51398-10-30 16:05 G 20494097.03 20494097.17 20494097.30 0.0068 0.0008

Venus 51398-11-06 03:36 G 20494103.59 20494103.65 20494103.72 0.3687 0.2860

Pluto 51399-01-26 16:34 G 20494185.06 20494185.19 20494185.33 0.0068 0.0003

Pluto 51399-04-24 17:02 G 20494273.08 20494273.21 20494273.35 0.0068 0.0014

Pluto 51399-07-21 17:46 G 20494361.11 20494361.24 20494361.37 0.0068 0.0024

Pluto 51399-10-17 18:14 G 20494449.15 20494449.26 20494449.38 0.0068 0.0035

Pluto 51400-01-13 18:43 G 20494537.19 20494537.28 20494537.39 0.0069 0.0047

Pluto 51400-04-11 19:12 G 20494625.24 20494625.30 20494625.38 0.0069 0.0058

Pluto 51400-07-08 20:10 G 20494713.34 20494713.34 20494713.34 0.0069 0.0069

Earth 51401-12-21 12:58 G 20495243.97 20495244.04 20495244.10 0.2662 0.2054

Moon 51401-12-21 13:26 G 20495244.00 20495244.06 20495244.12 0.2664 0.2108 *

Jupiter 51403-10-09 08:10 G 20495900.66 20495900.84 20495901.03 0.0505 0.0088

Mars 51404-02-20 12:43 G 20496034.97 20496035.03 20496035.08 0.1831 0.1554

Mars 51404-12-18 21:36 G 20496337.25 20496337.40 20496337.55 0.1704 0.0688

Uranus 51405-09-13 08:53 G 20496605.76 20496605.87 20496606.00 0.0139 0.0109

Uranus 51405-12-10 16:48 G 20496694.05 20496694.20 20496694.37 0.0139 0.0079

Uranus 51406-03-09 01:12 G 20496782.36 20496782.55 20496782.73 0.0139 0.0048

Uranus 51406-06-05 09:07 G 20496870.69 20496870.88 20496871.08 0.0139 0.0018

Uranus 51406-09-01 17:17 G 20496959.02 20496959.22 20496959.41 0.0138 0.0013

Uranus 51406-11-29 00:58 G 20497047.36 20497047.54 20497047.74 0.0138 0.0044

Uranus 51407-02-25 09:07 G 20497135.72 20497135.88 20497136.05 0.0138 0.0073

Uranus 51407-05-24 17:17 G 20497224.09 20497224.22 20497224.35 0.0138 0.0104

Uranus 51407-08-21 00:58 G 20497312.51 20497312.54 20497312.60 0.0138 0.0134

Saturn 51407-10-02 11:02 G 20497354.86 20497354.96 20497355.06 0.0300 0.0197

Saturn 51407-12-29 23:31 G 20497443.35 20497443.48 20497443.61 0.0300 0.0014

Saturn 51408-03-27 11:46 G 20497531.89 20497531.99 20497532.10 0.0300 0.0169

Moon 51408-12-14 12:58 G 20497793.95 20497794.04 20497794.13 0.2668 0.1318

Earth 51408-12-14 13:41 G 20497793.97 20497794.07 20497794.16 0.2665 0.1300 *

Jupiter 51409-06-10 03:22 G 20497971.52 20497971.64 20497971.77 0.0521 0.0010

Moon 51411-06-22 13:55 G 20498713.95 20498714.08 20498714.21 0.2666 0.1561

Earth 51411-06-22 15:36 G 20498714.03 20498714.15 20498714.27 0.2669 0.1796 *

Mars 51413-07-12 21:50 G 20499465.30 20499465.41 20499465.52 0.1823 0.0349

Mars 51414-05-10 21:07 G 20499767.25 20499767.38 20499767.52 0.1711 0.1015

Jupiter 51415-07-28 03:36 G 20500210.50 20500210.65 20500210.79 0.0505 0.0322

Jupiter 51421-03-29 08:10 G 20502281.72 20502281.84 20502281.96 0.0522 0.0147

Jupiter 51421-06-26 12:43 G 20502370.98 20502371.03 20502371.08 0.0519 0.0471

Moon 51421-12-17 06:43 G 20502544.68 20502544.78 20502544.89 0.2670 0.0178

Earth 51421-12-17 06:58 G 20502544.68 20502544.79 20502544.90 0.2664 0.0093 *

Saturn 51422-07-21 10:34 G 20502760.84 20502760.94 20502761.05 0.0261 0.0214

Saturn 51422-10-18 07:26 G 20502849.62 20502849.81 20502850.00 0.0261 0.0036

Mars 51422-12-03 07:12 G 20502895.70 20502895.80 20502895.90 0.1817 0.0853

Saturn 51423-01-15 04:19 G 20502938.52 20502938.68 20502938.84 0.0261 0.0143

Jupiter 51427-08-14 12:58 G 20504610.90 20504611.04 20504611.17 0.0507 0.0344

Jupiter 51433-01-15 12:43 G 20506591.93 20506592.03 20506592.14 0.0522 0.0301

Jupiter 51433-04-14 17:31 G 20506681.13 20506681.23 20506681.33 0.0519 0.0321

Earth 51434-12-20 00:14 G 20507295.41 20507295.51 20507295.61 0.2663 0.1100

Moon 51434-12-20 00:29 G 20507295.43 20507295.52 20507295.62 0.2669 0.1161 *

Saturn 51437-02-18 11:46 G 20508086.94 20508086.99 20508087.06 0.0300 0.0266

Saturn 51437-05-18 00:29 G 20508175.39 20508175.52 20508175.64 0.0300 0.0082

Saturn 51437-08-14 12:43 G 20508263.91 20508264.03 20508264.15 0.0300 0.0101

Saturn 51437-11-11 00:58 G 20508352.50 20508352.54 20508352.59 0.0300 0.0282

Venus 51438-10-30 04:05 G 20508705.62 20508705.67 20508705.72 0.3687 0.3117

Neptune 51439-03-05 19:41 G 20508832.32 20508832.32 20508832.36 0.0088 0.0088

Neptune 51439-06-01 23:31 G 20508920.40 20508920.48 20508920.59 0.0088 0.0077

Jupiter 51439-06-02 09:50 G 20508920.73 20508920.91 20508921.09 0.0506 0.0132

Neptune 51439-08-29 03:07 G 20509008.52 20509008.63 20509008.78 0.0088 0.0066

Neptune 51439-11-25 06:43 G 20509096.64 20509096.78 20509096.95 0.0088 0.0055

Neptune 51440-02-21 10:34 G 20509184.78 20509184.94 20509185.12 0.0088 0.0043

Neptune 51440-05-19 14:10 G 20509272.92 20509273.09 20509273.29 0.0088 0.0032

Neptune 51440-08-15 18:14 G 20509361.07 20509361.26 20509361.45 0.0088 0.0020

Neptune 51440-11-11 21:50 G 20509449.22 20509449.41 20509449.61 0.0088 0.0008

Neptune 51441-02-08 01:41 G 20509537.37 20509537.57 20509537.76 0.0088 0.0003

Neptune 51441-05-07 05:17 G 20509625.53 20509625.72 20509625.92 0.0088 0.0015

Neptune 51441-08-03 08:38 G 20509713.69 20509713.86 20509714.06 0.0088 0.0027

Neptune 51441-10-30 12:29 G 20509801.85 20509802.02 20509802.21 0.0088 0.0038

Moon 51441-12-13 00:14 G 20509845.46 20509845.51 20509845.56 0.2666 0.2321

Earth 51441-12-13 00:58 G 20509845.48 20509845.54 20509845.59 0.2666 0.2280 *

Neptune 51442-01-26 16:05 G 20509890.02 20509890.17 20509890.35 0.0088 0.0049

Neptune 51442-04-24 19:55 G 20509978.20 20509978.33 20509978.48 0.0088 0.0061

Neptune 51442-07-21 23:17 G 20510066.38 20510066.47 20510066.61 0.0088 0.0073

Neptune 51442-10-18 03:22 G 20510154.59 20510154.64 20510154.71 0.0089 0.0084

Mars 51443-08-21 12:29 G 20510461.98 20510462.02 20510462.06 0.1830 0.1704

Venus 51444-05-14 18:58 G 20510729.20 20510729.29 20510729.39 0.3687 0.0847

Mars 51444-06-18 22:05 G 20510764.28 20510764.42 20510764.56 0.1704 0.0911

Moon 51444-06-19 13:12 G 20510764.89 20510765.05 20510765.21 0.2662 0.0554

Earth 51444-06-19 13:55 G 20510764.92 20510765.08 20510765.24 0.2668 0.0496 *

Jupiter 51444-11-03 17:17 G 20510902.16 20510902.22 20510902.28 0.0523 0.0458

Jupiter 51445-01-31 22:05 G 20510991.30 20510991.42 20510991.54 0.0520 0.0169

Earth 51447-12-22 17:31 G 20512046.18 20512046.23 20512046.29 0.2662 0.2278

Moon 51447-12-22 18:14 G 20512046.21 20512046.26 20512046.31 0.2663 0.2367 *

Uranus 51449-03-07 03:36 G 20512486.59 20512486.65 20512486.72 0.0139 0.0119

Uranus 51449-06-03 06:58 G 20512574.70 20512574.79 20512574.88 0.0139 0.0099

Uranus 51449-08-30 10:05 G 20512662.82 20512662.92 20512663.03 0.0139 0.0078

Uranus 51449-11-26 13:26 G 20512750.94 20512751.06 20512751.18 0.0139 0.0058

Venus 51449-11-28 10:05 G 20512752.83 20512752.92 20512753.01 0.3687 0.1434

Uranus 51450-02-22 16:34 G 20512839.07 20512839.19 20512839.32 0.0140 0.0037

Uranus 51450-05-21 19:55 G 20512927.20 20512927.33 20512927.46 0.0140 0.0017

Uranus 51450-08-17 23:02 G 20513015.33 20513015.46 20513015.59 0.0140 0.0006

Uranus 51450-11-14 02:24 G 20513103.47 20513103.60 20513103.73 0.0140 0.0025

Uranus 51451-02-10 05:31 G 20513191.61 20513191.73 20513191.86 0.0140 0.0045

Jupiter 51451-03-21 06:43 G 20513230.60 20513230.78 20513230.97 0.0506 0.0080

Uranus 51451-05-09 08:53 G 20513279.75 20513279.87 20513279.98 0.0140 0.0066

Uranus 51451-08-05 12:00 G 20513367.90 20513368.00 20513368.11 0.0140 0.0087

Uranus 51451-11-01 15:22 G 20513456.06 20513456.14 20513456.22 0.0140 0.0107

Uranus 51452-01-28 18:29 G 20513544.23 20513544.27 20513544.33 0.0140 0.0128

Saturn 51452-03-06 05:02 G 20513581.54 20513581.71 20513581.89 0.0261 0.0100

Saturn 51452-06-03 01:55 G 20513670.40 20513670.58 20513670.76 0.0261 0.0079

Saturn 51452-08-30 22:48 G 20513759.44 20513759.45 20513759.47 0.0261 0.0259

Venus 51452-09-04 15:50 G 20513764.04 20513764.16 20513764.28 0.3684 0.2555

Mars 51453-01-10 21:50 G 20513892.30 20513892.41 20513892.52 0.1824 0.0494

Mars 51453-11-08 22:05 G 20514194.27 20514194.42 20514194.57 0.1711 0.0761

Moon 51454-12-15 17:46 G 20514596.14 20514596.24 20514596.34 0.2668 0.1201

Earth 51454-12-15 18:29 G 20514596.17 20514596.27 20514596.36 0.2665 0.1066 *

Jupiter 51456-11-20 02:10 G 20515301.47 20515301.59 20515301.72 0.0521 0.0022

Moon 51457-06-22 20:38 G 20515516.26 20515516.36 20515516.46 0.2667 0.2116

Earth 51457-06-22 22:34 G 20515516.36 20515516.44 20515516.52 0.2669 0.2306 *

Mars 51462-06-03 07:12 G 20517322.69 20517322.80 20517322.90 0.1817 0.0693

Jupiter 51463-01-07 03:22 G 20517540.49 20517540.64 20517540.79 0.0505 0.0294

Saturn 51466-10-05 02:10 G 20518907.48 20518907.59 20518907.71 0.0300 0.0137

Saturn 51467-01-01 14:38 G 20518995.98 20518996.11 20518996.24 0.0300 0.0046

Saturn 51467-03-31 03:07 G 20519084.54 20519084.63 20519084.71 0.0300 0.0227

Moon 51467-12-18 11:46 G 20519346.88 20519346.99 20519347.09 0.2671 0.0206

Earth 51467-12-18 11:46 G 20519346.88 20519346.99 20519347.10 0.2664 0.0143 *

Jupiter 51468-09-08 06:58 G 20519611.67 20519611.79 20519611.91 0.0522 0.0143

Jupiter 51468-12-06 11:17 G 20519700.93 20519700.97 20519701.03 0.0519 0.0474

Jupiter 51475-01-24 11:17 G 20521940.84 20521940.97 20521941.10 0.0506 0.0349

Moon 51477-06-17 12:29 G 20522815.99 20522816.02 20522816.04 0.2659 0.2615

Jupiter 51480-06-27 11:31 G 20523921.88 20523921.98 20523922.09 0.0523 0.0297

Jupiter 51480-09-24 16:19 G 20524011.08 20524011.18 20524011.28 0.0520 0.0327

Earth 51480-12-20 05:02 G 20524097.62 20524097.71 20524097.80 0.2663 0.1325

Moon 51480-12-20 05:31 G 20524097.63 20524097.73 20524097.82 0.2668 0.1345 *

Saturn 51481-07-24 05:02 G 20524313.56 20524313.71 20524313.87 0.0261 0.0143

Saturn 51481-10-21 01:55 G 20524402.39 20524402.58 20524402.77 0.0261 0.0036

Saturn 51482-01-17 22:48 G 20524491.35 20524491.45 20524491.56 0.0261 0.0216

Mars 51483-12-18 22:48 G 20525191.33 20525191.45 20525191.57 0.1704 0.1156

Pluto 51484-03-11 03:07 G 20525274.57 20525274.63 20525274.69 0.0077 0.0072

Pluto 51484-06-07 05:31 G 20525362.59 20525362.73 20525362.87 0.0076 0.0051

Pluto 51484-09-03 07:26 G 20525450.65 20525450.81 20525451.00 0.0076 0.0030

Pluto 51484-11-30 10:05 G 20525538.74 20525538.92 20525539.11 0.0076 0.0009

Pluto 51485-02-26 12:29 G 20525626.84 20525627.02 20525627.21 0.0076 0.0012

Pluto 51485-05-25 14:38 G 20525714.95 20525715.11 20525715.29 0.0076 0.0033

Pluto 51485-08-21 16:48 G 20525803.08 20525803.20 20525803.35 0.0076 0.0054

Pluto 51485-11-17 19:12 G 20525891.28 20525891.30 20525891.35 0.0076 0.0074

Jupiter 51486-11-12 07:41 G 20526250.64 20526250.82 20526251.01 0.0506 0.0132

Moon 51487-12-14 05:02 G 20526647.65 20526647.71 20526647.77 0.2667 0.2171

Earth 51487-12-14 05:46 G 20526647.67 20526647.74 20526647.81 0.2666 0.2044 *

Uranus 51489-07-07 07:41 G 20527218.78 20527218.82 20527218.88 0.0139 0.0133

Uranus 51489-10-03 15:36 G 20527307.03 20527307.15 20527307.29 0.0139 0.0103

Uranus 51489-12-30 23:31 G 20527395.33 20527395.48 20527395.66 0.0139 0.0073

Uranus 51490-03-29 07:55 G 20527483.64 20527483.83 20527484.02 0.0139 0.0042

Moon 51490-06-20 19:41 G 20527567.16 20527567.32 20527567.48 0.2663 0.0178

Earth 51490-06-20 20:53 G 20527567.20 20527567.37 20527567.53 0.2668 0.0069 *

Uranus 51490-06-25 15:50 G 20527571.97 20527572.16 20527572.36 0.0139 0.0012

Uranus 51490-09-22 00:00 G 20527660.30 20527660.50 20527660.69 0.0138 0.0019

Uranus 51490-12-19 07:41 G 20527748.65 20527748.82 20527749.02 0.0138 0.0050

Uranus 51491-03-17 15:50 G 20527837.01 20527837.16 20527837.33 0.0138 0.0080

Uranus 51491-06-14 00:00 G 20527925.38 20527925.50 20527925.62 0.0138 0.0110

Jupiter 51492-04-15 16:05 G 20528232.11 20528232.17 20528232.23 0.0523 0.0452

Mars 51492-07-11 21:50 G 20528319.30 20528319.41 20528319.52 0.1823 0.0654

Jupiter 51492-07-13 20:53 G 20528321.25 20528321.37 20528321.49 0.0520 0.0176

Mars 51493-05-09 22:19 G 20528621.28 20528621.43 20528621.59 0.1711 0.0554

Earth 51493-12-22 22:19 G 20528848.40 20528848.43 20528848.47 0.2662 0.2498

Moon 51493-12-22 23:02 G 20528848.44 20528848.46 20528848.48 0.2662 0.2600 *

Venus 51495-06-06 01:12 G 20529378.48 20529378.55 20529378.63 0.3687 0.2285

Saturn 51496-02-22 03:36 G 20529639.55 20529639.65 20529639.75 0.0300 0.0198

Saturn 51496-05-20 16:05 G 20529728.04 20529728.17 20529728.30 0.0300 0.0016

Saturn 51496-08-17 04:19 G 20529816.58 20529816.68 20529816.79 0.0300 0.0166

Jupiter 51498-08-31 04:34 G 20530560.51 20530560.69 20530560.88 0.0505 0.0082

Moon 51500-12-16 22:34 G 20531398.34 20531398.44 20531398.55 0.2669 0.0847

Earth 51500-12-16 23:02 G 20531398.36 20531398.46 20531398.57 0.2665 0.0838 *

Venus 51500-12-20 16:19 G 20531402.08 20531402.18 20531402.28 0.3687 0.0014

Mars 51501-12-03 06:58 G 20531749.68 20531749.79 20531749.90 0.1816 0.0545

Moon 51503-06-25 03:36 G 20532318.61 20532318.65 20532318.68 0.2667 0.2598

Jupiter 51504-05-03 01:26 G 20532631.44 20532631.56 20532631.69 0.0521 0.0026

Venus 51506-07-06 07:12 G 20533425.73 20533425.80 20533425.88 0.3687 0.2266

Jupiter 51510-06-20 01:26 G 20534870.42 20534870.56 20534870.72 0.0505 0.0291

Saturn 51510-12-12 03:07 G 20535045.52 20535045.63 20535045.75 0.0261 0.0203

Saturn 51511-03-11 00:00 G 20535134.31 20535134.50 20535134.69 0.0261 0.0025

Mars 51511-04-25 16:19 G 20535180.15 20535180.18 20535180.21 0.1810 0.1726

Saturn 51511-06-07 20:38 G 20535223.22 20535223.36 20535223.53 0.0261 0.0155

Moon 51513-12-19 16:34 G 20536149.08 20536149.19 20536149.30 0.2671 0.0312

Earth 51513-12-19 16:34 G 20536149.08 20536149.19 20536149.30 0.2664 0.0372 *

Jupiter 51516-02-20 05:46 G 20536941.62 20536941.74 20536941.86 0.0521 0.0141

Jupiter 51516-05-19 10:05 G 20537030.88 20537030.92 20537030.97 0.0519 0.0476

Neptune 51519-10-01 16:48 G 20538261.16 20538261.20 20538261.26 0.0089 0.0082

Neptune 51519-12-28 18:00 G 20538349.19 20538349.25 20538349.34 0.0089 0.0074

Neptune 51520-03-25 19:26 G 20538437.23 20538437.31 20538437.40 0.0089 0.0066

Neptune 51520-06-21 20:53 G 20538525.27 20538525.37 20538525.47 0.0089 0.0058

Neptune 51520-09-17 22:19 G 20538613.32 20538613.43 20538613.53 0.0089 0.0050

Neptune 51520-12-14 23:17 G 20538701.37 20538701.47 20538701.60 0.0089 0.0043

Neptune 51521-03-13 00:43 G 20538789.41 20538789.53 20538789.65 0.0089 0.0035

Neptune 51521-06-09 02:10 G 20538877.46 20538877.59 20538877.71 0.0089 0.0027

Neptune 51521-09-05 03:22 G 20538965.51 20538965.64 20538965.77 0.0089 0.0019

Neptune 51521-12-02 04:34 G 20539053.57 20539053.69 20539053.83 0.0089 0.0012

Neptune 51522-02-28 06:00 G 20539141.62 20539141.75 20539141.88 0.0089 0.0004

Jupiter 51522-04-07 22:19 G 20539180.42 20539180.43 20539180.44 0.0504 0.0503

Neptune 51522-05-27 07:12 G 20539229.67 20539229.80 20539229.93 0.0089 0.0004

Jupiter 51522-07-07 10:48 G 20539270.82 20539270.95 20539271.08 0.0507 0.0372

Neptune 51522-08-23 08:38 G 20539317.73 20539317.86 20539317.99 0.0089 0.0012

Neptune 51522-11-19 09:50 G 20539405.78 20539405.91 20539406.04 0.0089 0.0020

Neptune 51523-02-15 11:02 G 20539493.84 20539493.96 20539494.09 0.0089 0.0027

Neptune 51523-05-14 12:14 G 20539581.89 20539582.01 20539582.13 0.0089 0.0035

Moon 51523-06-19 19:12 G 20539618.22 20539618.30 20539618.37 0.2660 0.2358

Earth 51523-06-19 19:12 G 20539618.22 20539618.30 20539618.39 0.2667 0.2241 *

Mars 51523-06-19 23:31 G 20539618.38 20539618.48 20539618.57 0.1704 0.1387 *

Neptune 51523-08-10 13:26 G 20539669.95 20539670.06 20539670.18 0.0089 0.0043

Neptune 51523-11-06 14:38 G 20539758.01 20539758.11 20539758.23 0.0089 0.0051

Neptune 51524-02-02 16:05 G 20539846.08 20539846.17 20539846.27 0.0089 0.0058

Neptune 51524-04-30 17:17 G 20539934.14 20539934.22 20539934.31 0.0089 0.0066

Neptune 51524-07-27 18:29 G 20540022.21 20540022.27 20540022.35 0.0089 0.0074

Neptune 51524-10-23 19:55 G 20540110.28 20540110.33 20540110.38 0.0089 0.0081

Saturn 51525-07-12 05:46 G 20540371.67 20540371.74 20540371.81 0.0300 0.0250

Saturn 51525-10-08 18:14 G 20540460.13 20540460.26 20540460.39 0.0300 0.0067

Saturn 51526-01-05 06:29 G 20540548.66 20540548.77 20540548.89 0.0300 0.0116

Saturn 51526-04-03 18:58 G 20540637.27 20540637.29 20540637.30 0.0300 0.0296

Earth 51526-12-22 09:50 G 20540899.82 20540899.91 20540900.00 0.2662 0.1552

Moon 51526-12-22 10:19 G 20540899.85 20540899.93 20540900.01 0.2666 0.1674 *

Jupiter 51527-12-09 10:05 G 20541251.82 20541251.92 20541252.03 0.0522 0.0296

Jupiter 51528-03-07 14:53 G 20541341.02 20541341.12 20541341.22 0.0520 0.0327

Mars 51532-01-11 21:50 G 20542746.31 20542746.41 20542746.51 0.1823 0.0817

Mars 51532-11-08 23:02 G 20543048.30 20543048.46 20543048.63 0.1711 0.0313

Uranus 51532-12-30 07:26 G 20543099.79 20543099.81 20543099.84 0.0139 0.0135

Uranus 51533-03-28 10:34 G 20543187.88 20543187.94 20543188.02 0.0139 0.0115

Uranus 51533-06-24 13:55 G 20543275.99 20543276.08 20543276.18 0.0139 0.0095

Uranus 51533-09-20 17:02 G 20543364.11 20543364.21 20543364.33 0.0139 0.0075

Moon 51533-12-15 09:50 G 20543449.83 20543449.91 20543449.98 0.2667 0.1884

Earth 51533-12-15 10:34 G 20543449.86 20543449.94 20543450.02 0.2666 0.1813 *

Uranus 51533-12-17 20:24 G 20543452.23 20543452.35 20543452.47 0.0139 0.0054

Uranus 51534-03-15 23:46 G 20543540.36 20543540.49 20543540.61 0.0140 0.0033

Jupiter 51534-04-25 06:00 G 20543580.57 20543580.75 20543580.93 0.0505 0.0134

Uranus 51534-06-12 02:53 G 20543628.49 20543628.62 20543628.75 0.0140 0.0013

Uranus 51534-09-08 06:14 G 20543716.63 20543716.76 20543716.89 0.0140 0.0009

Uranus 51534-12-05 09:22 G 20543804.76 20543804.89 20543805.02 0.0140 0.0029

Uranus 51535-03-03 12:29 G 20543892.91 20543893.02 20543893.15 0.0140 0.0050

Uranus 51535-05-30 15:50 G 20543981.05 20543981.16 20543981.27 0.0140 0.0070

Uranus 51535-08-26 18:58 G 20544069.20 20544069.29 20544069.39 0.0140 0.0091

Uranus 51535-11-22 22:19 G 20544157.35 20544157.43 20544157.51 0.0140 0.0111

Uranus 51536-02-19 01:26 G 20544245.53 20544245.56 20544245.61 0.0140 0.0132

Moon 51536-06-22 02:10 G 20544369.43 20544369.59 20544369.75 0.2664 0.0441

Earth 51536-06-22 03:36 G 20544369.49 20544369.65 20544369.81 0.2668 0.0507 *

Jupiter 51539-09-27 14:38 G 20545562.05 20545562.11 20545562.17 0.0523 0.0454

Jupiter 51539-12-25 19:26 G 20545651.20 20545651.31 20545651.43 0.0521 0.0177

Saturn 51540-04-30 03:36 G 20545777.59 20545777.65 20545777.72 0.0262 0.0243

Saturn 51540-07-28 00:29 G 20545866.34 20545866.52 20545866.71 0.0262 0.0064

Saturn 51540-10-24 21:22 G 20545955.22 20545955.39 20545955.56 0.0262 0.0115

Mars 51541-06-03 06:58 G 20546176.68 20546176.79 20546176.91 0.1817 0.0390

Jupiter 51546-02-11 02:24 G 20547890.41 20547890.60 20547890.78 0.0505 0.0084

Moon 51546-12-18 03:36 G 20548200.54 20548200.65 20548200.75 0.2670 0.0686

Earth 51546-12-18 03:50 G 20548200.56 20548200.66 20548200.77 0.2665 0.0602 *

Mars 51550-10-24 16:19 G 20549607.13 20549607.18 20549607.24 0.1810 0.1566

Jupiter 51551-10-14 00:14 G 20549961.38 20549961.51 20549961.63 0.0521 0.0029

Venus 51552-01-11 22:34 G 20550051.35 20550051.44 20550051.53 0.3687 0.1438

Saturn 51555-02-25 20:10 G 20551192.23 20551192.34 20551192.46 0.0300 0.0119

Saturn 51555-05-25 08:38 G 20551280.73 20551280.86 20551280.99 0.0300 0.0063

Saturn 51555-08-21 20:53 G 20551369.30 20551369.37 20551369.44 0.0300 0.0243

Venus 51557-07-27 13:41 G 20552074.97 20552075.07 20552075.16 0.3687 0.0854

Jupiter 51557-11-29 23:02 G 20552200.31 20552200.46 20552200.61 0.0505 0.0298

Earth 51559-12-20 21:22 G 20552951.28 20552951.39 20552951.49 0.2663 0.0600

Moon 51559-12-20 21:22 G 20552951.29 20552951.39 20552951.49 0.2670 0.0665 *

Venus 51560-05-03 09:07 G 20553085.72 20553085.88 20553086.04 0.3683 0.0719

Mars 51562-12-19 00:00 G 20554045.45 20554045.50 20554045.55 0.1704 0.1619

Venus 51563-02-10 04:34 G 20554098.64 20554098.69 20554098.74 0.3686 0.3103

Jupiter 51563-08-02 04:34 G 20554271.57 20554271.69 20554271.81 0.0522 0.0133

Jupiter 51563-10-30 09:07 G 20554360.84 20554360.88 20554360.92 0.0519 0.0484

Moon 51569-06-20 01:41 G 20556420.44 20556420.57 20556420.69 0.2661 0.1690

Earth 51569-06-20 02:10 G 20556420.47 20556420.59 20556420.71 0.2667 0.1751 *

Saturn 51569-12-14 23:02 G 20556598.29 20556598.46 20556598.62 0.0261 0.0122

Jupiter 51569-12-17 08:24 G 20556600.73 20556600.85 20556600.98 0.0507 0.0369

Saturn 51570-03-13 19:41 G 20556687.14 20556687.32 20556687.51 0.0261 0.0058

Saturn 51570-06-10 16:34 G 20556776.12 20556776.19 20556776.28 0.0261 0.0239

Mars 51571-07-12 21:36 G 20557173.31 20557173.40 20557173.50 0.1824 0.0958

Mars 51572-05-10 00:00 G 20557475.33 20557475.50 20557475.66 0.1710 0.0068

Earth 51572-12-22 14:38 G 20557702.03 20557702.11 20557702.19 0.2662 0.1777

Moon 51572-12-22 15:07 G 20557702.06 20557702.13 20557702.21 0.2666 0.1800 *

Uranus 51573-07-28 13:26 G 20557920.01 20557920.06 20557920.14 0.0139 0.0130

Uranus 51573-10-24 21:36 G 20558008.27 20558008.40 20558008.54 0.0139 0.0100

Uranus 51574-01-21 05:46 G 20558096.57 20558096.74 20558096.91 0.0139 0.0069

Uranus 51574-04-19 13:41 G 20558184.89 20558185.07 20558185.26 0.0139 0.0039

Uranus 51574-07-16 21:50 G 20558273.21 20558273.41 20558273.61 0.0139 0.0008

Uranus 51574-10-13 05:46 G 20558361.55 20558361.74 20558361.94 0.0138 0.0022

Uranus 51575-01-09 13:41 G 20558449.90 20558450.07 20558450.26 0.0138 0.0053

Uranus 51575-04-07 21:50 G 20558538.25 20558538.41 20558538.57 0.0138 0.0083

Jupiter 51575-05-21 08:38 G 20558581.76 20558581.86 20558581.97 0.0522 0.0297

Uranus 51575-07-05 05:31 G 20558626.63 20558626.73 20558626.86 0.0138 0.0113

Jupiter 51575-08-18 13:26 G 20558670.96 20558671.06 20558671.15 0.0520 0.0326

Moon 51579-12-16 14:38 G 20560252.02 20560252.11 20560252.19 0.2667 0.1672

Earth 51579-12-16 15:22 G 20560252.05 20560252.14 20560252.22 0.2666 0.1578 *

Mars 51580-12-02 07:12 G 20560603.68 20560603.80 20560603.91 0.1817 0.0228

Jupiter 51581-10-05 04:48 G 20560910.52 20560910.70 20560910.88 0.0506 0.0148

Moon 51582-06-23 08:53 G 20561171.71 20561171.87 20561172.03 0.2665 0.0709

Earth 51582-06-23 10:19 G 20561171.79 20561171.93 20561172.08 0.2668 0.1008 *

Saturn 51584-07-14 22:34 G 20561924.33 20561924.44 20561924.55 0.0300 0.0169

Saturn 51584-10-11 11:02 G 20562012.83 20562012.96 20562013.09 0.0300 0.0016

Saturn 51585-01-07 23:17 G 20562101.37 20562101.47 20562101.57 0.0300 0.0195

Jupiter 51587-03-09 12:58 G 20562891.98 20562892.04 20562892.10 0.0523 0.0456

Jupiter 51587-06-06 18:00 G 20562981.13 20562981.25 20562981.37 0.0520 0.0173

Mars 51590-04-24 16:19 G 20564034.11 20564034.18 20564034.25 0.1810 0.1410

Moon 51592-12-18 08:24 G 20565002.74 20565002.85 20565002.96 0.2671 0.0378

Earth 51592-12-18 08:38 G 20565002.75 20565002.86 20565002.97 0.2664 0.0371 *

Jupiter 51593-07-24 00:14 G 20565220.33 20565220.51 20565220.69 0.0505 0.0086

Jupiter 51599-03-25 22:19 G 20567291.31 20567291.43 20567291.56 0.0522 0.0022

Saturn 51599-05-03 23:46 G 20567330.35 20567330.49 20567330.65 0.0262 0.0158

Saturn 51599-07-31 20:38 G 20567419.17 20567419.36 20567419.56 0.0262 0.0023

Saturn 51599-10-28 17:46 G 20567508.12 20567508.24 20567508.36 0.0262 0.0203

Venus 51603-02-02 04:48 G 20568700.64 20568700.70 20568700.76 0.3687 0.2879

Neptune 51603-12-01 18:29 G 20569003.22 20569003.27 20569003.36 0.0088 0.0083

Neptune 51604-02-27 22:34 G 20569091.33 20569091.44 20569091.56 0.0088 0.0071

Neptune 51604-05-26 01:55 G 20569179.45 20569179.58 20569179.74 0.0088 0.0060

Neptune 51604-08-22 05:31 G 20569267.58 20569267.73 20569267.91 0.0088 0.0049

Neptune 51604-11-18 09:36 G 20569355.72 20569355.90 20569356.08 0.0088 0.0037

Neptune 51605-02-14 13:12 G 20569443.87 20569444.05 20569444.24 0.0088 0.0025

Jupiter 51605-05-11 20:38 G 20569530.21 20569530.36 20569530.51 0.0504 0.0303

Neptune 51605-05-13 16:48 G 20569532.01 20569532.20 20569532.40 0.0088 0.0014

Neptune 51605-08-09 20:38 G 20569620.16 20569620.36 20569620.56 0.0088 0.0003

Neptune 51605-11-06 00:14 G 20569708.32 20569708.51 20569708.71 0.0088 0.0009

Earth 51605-12-21 02:10 G 20569753.48 20569753.59 20569753.69 0.2663 0.0829

Moon 51605-12-21 02:24 G 20569753.49 20569753.60 20569753.70 0.2669 0.0816 *

Neptune 51606-02-02 03:50 G 20569796.48 20569796.66 20569796.86 0.0088 0.0021

Neptune 51606-05-01 07:26 G 20569884.64 20569884.81 20569885.01 0.0088 0.0033

Neptune 51606-07-28 11:17 G 20569972.81 20569972.97 20569973.15 0.0088 0.0044

Neptune 51606-10-24 15:07 G 20570060.98 20570061.13 20570061.29 0.0088 0.0055

Neptune 51607-01-20 18:43 G 20570149.16 20570149.28 20570149.42 0.0088 0.0067

Neptune 51607-04-18 22:05 G 20570237.35 20570237.42 20570237.54 0.0088 0.0079

Venus 51608-08-17 19:55 G 20570724.23 20570724.33 20570724.43 0.3687 0.0601

Mars 51611-01-10 21:50 G 20571600.32 20571600.41 20571600.50 0.1824 0.1126

Jupiter 51611-01-12 02:53 G 20571601.50 20571601.62 20571601.74 0.0522 0.0139

Jupiter 51611-04-11 07:26 G 20571690.77 20571690.81 20571690.86 0.0519 0.0480

Mars 51611-11-09 00:29 G 20571902.35 20571902.52 20571902.68 0.1710 0.0159

Moon 51612-12-14 01:55 G 20572303.56 20572303.58 20572303.60 0.2665 0.2602

Earth 51612-12-14 02:38 G 20572303.58 20572303.61 20572303.63 0.2667 0.2563 *

Saturn 51613-12-02 00:58 G 20572656.46 20572656.54 20572656.64 0.0300 0.0213

Saturn 51614-02-28 13:26 G 20572744.94 20572745.06 20572745.19 0.0300 0.0032

Venus 51614-03-03 10:48 G 20572747.86 20572747.95 20572748.04 0.3687 0.1677

Saturn 51614-05-28 01:55 G 20572833.47 20572833.58 20572833.69 0.0300 0.0151

Moon 51615-06-21 07:55 G 20573222.70 20573222.83 20573222.97 0.2662 0.1427

Earth 51615-06-21 08:53 G 20573222.73 20573222.87 20573223.01 0.2667 0.1267 *

Venus 51616-12-08 12:00 G 20573758.88 20573759.00 20573759.13 0.3684 0.2317

Uranus 51617-01-19 14:24 G 20573801.07 20573801.10 20573801.15 0.0139 0.0131

Uranus 51617-04-17 17:31 G 20573889.17 20573889.23 20573889.32 0.0139 0.0112

Jupiter 51617-05-29 05:31 G 20573930.60 20573930.73 20573930.87 0.0506 0.0356

Uranus 51617-07-14 20:53 G 20573977.28 20573977.37 20573977.48 0.0139 0.0091

Uranus 51617-10-11 00:14 G 20574065.40 20574065.51 20574065.63 0.0139 0.0070

Uranus 51618-01-07 03:36 G 20574153.53 20574153.65 20574153.77 0.0139 0.0049

Uranus 51618-04-05 06:43 G 20574241.66 20574241.78 20574241.91 0.0139 0.0029

Uranus 51618-07-02 10:05 G 20574329.79 20574329.92 20574330.05 0.0140 0.0008

Uranus 51618-09-28 13:12 G 20574417.92 20574418.05 20574418.18 0.0140 0.0013

Earth 51618-12-23 19:26 G 20574504.24 20574504.31 20574504.38 0.2662 0.2003

Moon 51618-12-23 19:55 G 20574504.27 20574504.33 20574504.39 0.2665 0.2152 *

Uranus 51618-12-25 16:34 G 20574506.06 20574506.19 20574506.31 0.0140 0.0033

Uranus 51619-03-23 19:41 G 20574594.20 20574594.32 20574594.44 0.0140 0.0054

Uranus 51619-06-19 22:48 G 20574682.35 20574682.45 20574682.57 0.0140 0.0075

Uranus 51619-09-16 02:10 G 20574770.50 20574770.59 20574770.69 0.0140 0.0095

Uranus 51619-12-13 05:17 G 20574858.66 20574858.72 20574858.80 0.0140 0.0116

Uranus 51620-03-10 08:24 G 20574946.84 20574946.85 20574946.89 0.0140 0.0138

Mars 51620-06-02 06:58 G 20575030.67 20575030.79 20575030.91 0.1816 0.0078

Mars 51621-03-31 00:00 G 20575332.43 20575332.50 20575332.57 0.1717 0.1545

Jupiter 51622-10-31 07:26 G 20575911.70 20575911.81 20575911.91 0.0522 0.0295

Jupiter 51623-01-28 12:00 G 20576000.91 20576001.00 20576001.10 0.0520 0.0329

Moon 51625-12-16 19:26 G 20577054.22 20577054.31 20577054.40 0.2669 0.1436

Earth 51625-12-16 20:10 G 20577054.24 20577054.34 20577054.43 0.2665 0.1345 *

Moon 51628-06-23 15:36 G 20577974.01 20577974.15 20577974.29 0.2665 0.1430

Earth 51628-06-23 17:17 G 20577974.09 20577974.22 20577974.35 0.2669 0.1502 *

Saturn 51628-09-19 22:48 G 20578062.34 20578062.45 20578062.56 0.0261 0.0211

Saturn 51628-12-17 19:41 G 20578151.13 20578151.32 20578151.51 0.0261 0.0033

Saturn 51629-03-16 16:19 G 20578240.03 20578240.18 20578240.35 0.0262 0.0149

Jupiter 51629-03-17 02:10 G 20578240.41 20578240.59 20578240.77 0.0506 0.0139

Mars 51629-10-23 16:19 G 20578461.10 20578461.18 20578461.26 0.1810 0.1259

Jupiter 51634-08-19 11:17 G 20580221.92 20580221.97 20580222.03 0.0523 0.0462

Jupiter 51634-11-16 16:19 G 20580311.06 20580311.18 20580311.30 0.0520 0.0167

Moon 51638-12-19 13:12 G 20581804.94 20581805.05 20581805.16 0.2671 0.0183

Earth 51638-12-19 13:26 G 20581804.95 20581805.06 20581805.17 0.2664 0.0138 *

Jupiter 51641-01-02 22:34 G 20582550.26 20582550.44 20582550.62 0.0505 0.0080

Saturn 51643-04-21 03:36 G 20583388.59 20583388.65 20583388.71 0.0300 0.0259

Saturn 51643-07-18 16:05 G 20583477.05 20583477.17 20583477.30 0.0300 0.0076

Pluto 51643-10-11 02:38 G 20583561.58 20583561.61 20583561.67 0.0068 0.0064

Saturn 51643-10-15 04:34 G 20583565.57 20583565.69 20583565.81 0.0300 0.0106

Pluto 51644-01-07 03:22 G 20583649.56 20583649.64 20583649.73 0.0068 0.0053

Saturn 51644-01-11 16:34 G 20583654.16 20583654.19 20583654.23 0.0300 0.0286

Pluto 51644-04-04 04:05 G 20583737.57 20583737.67 20583737.78 0.0068 0.0042

Pluto 51644-07-01 04:34 G 20583825.58 20583825.69 20583825.82 0.0068 0.0032

Pluto 51644-09-27 05:02 G 20583913.59 20583913.71 20583913.85 0.0068 0.0021

Pluto 51644-12-24 05:46 G 20584001.61 20584001.74 20584001.88 0.0068 0.0010

Pluto 51645-03-22 06:29 G 20584089.63 20584089.77 20584089.91 0.0068 0.0001

Pluto 51645-06-18 06:58 G 20584177.66 20584177.79 20584177.93 0.0068 0.0012

Pluto 51645-09-14 07:41 G 20584265.69 20584265.82 20584265.95 0.0068 0.0023

Pluto 51645-12-11 08:10 G 20584353.73 20584353.84 20584353.96 0.0068 0.0034

Pluto 51646-03-09 08:53 G 20584441.77 20584441.87 20584441.97 0.0069 0.0045

Pluto 51646-06-05 09:22 G 20584529.82 20584529.89 20584529.97 0.0069 0.0056

Pluto 51646-09-01 10:05 G 20584617.89 20584617.92 20584617.94 0.0069 0.0067

Jupiter 51646-09-04 20:38 G 20584621.24 20584621.36 20584621.49 0.0521 0.0015

Mars 51650-07-11 21:36 G 20586027.32 20586027.40 20586027.49 0.1823 0.1280

Mars 51651-05-10 00:58 G 20586329.38 20586329.54 20586329.71 0.1710 0.0395

Earth 51651-12-22 06:43 G 20586555.69 20586555.78 20586555.88 0.2663 0.1057

Moon 51651-12-22 07:12 G 20586555.70 20586555.80 20586555.90 0.2668 0.1134 *

Jupiter 51652-10-21 18:14 G 20586860.12 20586860.26 20586860.41 0.0504 0.0308

Uranus 51657-08-17 19:41 G 20588621.25 20588621.32 20588621.41 0.0139 0.0126

Uranus 51657-11-14 03:36 G 20588709.52 20588709.65 20588709.80 0.0139 0.0096

Saturn 51658-02-07 00:00 G 20588794.44 20588794.50 20588794.57 0.0262 0.0244

Uranus 51658-02-10 11:31 G 20588797.82 20588797.98 20588798.17 0.0139 0.0066

Saturn 51658-05-06 20:53 G 20588883.18 20588883.37 20588883.55 0.0262 0.0065

Uranus 51658-05-09 19:55 G 20588886.14 20588886.33 20588886.52 0.0139 0.0035

Jupiter 51658-06-24 00:58 G 20588931.42 20588931.54 20588931.66 0.0522 0.0150

Saturn 51658-08-03 17:46 G 20588972.07 20588972.24 20588972.41 0.0262 0.0115

Uranus 51658-08-06 03:50 G 20588974.46 20588974.66 20588974.86 0.0139 0.0005

Jupiter 51658-09-21 05:31 G 20589020.68 20589020.73 20589020.78 0.0520 0.0471

Uranus 51658-11-02 11:46 G 20589062.80 20589062.99 20589063.19 0.0138 0.0026

Moon 51658-12-15 06:43 G 20589105.74 20589105.78 20589105.81 0.2665 0.2475

Earth 51658-12-15 07:12 G 20589105.75 20589105.80 20589105.86 0.2666 0.2329 *

Uranus 51659-01-29 19:41 G 20589151.15 20589151.32 20589151.51 0.0138 0.0056

Uranus 51659-04-28 03:50 G 20589239.51 20589239.66 20589239.81 0.0138 0.0086

Uranus 51659-07-25 11:46 G 20589327.89 20589327.99 20589328.10 0.0138 0.0117

Venus 51659-09-09 02:10 G 20589373.51 20589373.59 20589373.67 0.3687 0.2037

Mars 51659-12-02 06:58 G 20589457.68 20589457.79 20589457.91 0.1817 0.0087

Mars 51660-09-29 00:43 G 20589759.43 20589759.53 20589759.64 0.1717 0.1310

Moon 51661-06-21 14:24 G 20590024.95 20590025.10 20590025.26 0.2662 0.0851

Earth 51661-06-21 15:36 G 20590025.00 20590025.15 20590025.30 0.2667 0.0772 *

Jupiter 51664-11-08 02:53 G 20591260.49 20591260.62 20591260.76 0.0506 0.0346

Earth 51664-12-24 00:00 G 20591306.45 20591306.50 20591306.56 0.2662 0.2229

Moon 51664-12-24 00:43 G 20591306.48 20591306.53 20591306.59 0.2665 0.2251 *

Venus 51665-03-24 17:02 G 20591397.11 20591397.21 20591397.31 0.3687 0.0271

Mars 51669-04-23 16:19 G 20592888.09 20592888.18 20592888.27 0.1810 0.1095

Jupiter 51670-04-12 05:31 G 20593241.63 20593241.73 20593241.83 0.0523 0.0307

Jupiter 51670-07-10 10:05 G 20593330.83 20593330.92 20593331.02 0.0520 0.0319

Venus 51670-10-08 08:10 G 20593420.76 20593420.84 20593420.91 0.3687 0.2511

Moon 51671-12-18 00:14 G 20593856.41 20593856.51 20593856.61 0.2670 0.1140

Earth 51671-12-18 00:43 G 20593856.43 20593856.53 20593856.63 0.2665 0.1115 *

Saturn 51672-09-07 06:29 G 20594120.76 20594120.77 20594120.79 0.0300 0.0297

Saturn 51672-12-04 18:58 G 20594209.18 20594209.29 20594209.42 0.0300 0.0115

Saturn 51673-03-03 07:26 G 20594297.68 20594297.81 20594297.94 0.0300 0.0067

Saturn 51673-05-30 19:41 G 20594386.25 20594386.32 20594386.39 0.0299 0.0247

Moon 51674-06-24 22:34 G 20594776.31 20594776.44 20594776.56 0.2666 0.1707

Earth 51674-06-25 00:00 G 20594776.40 20594776.50 20594776.61 0.2669 0.2006 *

Jupiter 51676-08-26 23:02 G 20595570.28 20595570.46 20595570.64 0.0506 0.0122

Jupiter 51682-01-29 09:50 G 20597551.86 20597551.91 20597551.97 0.0523 0.0464

Jupiter 51682-04-28 14:53 G 20597641.00 20597641.12 20597641.24 0.0521 0.0167

Neptune 51684-03-31 15:22 G 20598344.12 20598344.14 20598344.19 0.0089 0.0086

Neptune 51684-06-27 16:34 G 20598432.15 20598432.19 20598432.27 0.0089 0.0078

Neptune 51684-09-23 18:00 G 20598520.18 20598520.25 20598520.34 0.0089 0.0070

Moon 51684-12-19 18:14 G 20598607.15 20598607.26 20598607.36 0.2671 0.0134

Earth 51684-12-19 18:14 G 20598607.15 20598607.26 20598607.37 0.2664 0.0093 *

Neptune 51684-12-20 19:26 G 20598608.22 20598608.31 20598608.41 0.0089 0.0062

Neptune 51685-03-18 20:53 G 20598696.27 20598696.37 20598696.47 0.0089 0.0054

Neptune 51685-06-14 22:05 G 20598784.31 20598784.42 20598784.54 0.0089 0.0046

Neptune 51685-09-10 23:17 G 20598872.36 20598872.47 20598872.60 0.0089 0.0039

Neptune 51685-12-08 00:43 G 20598960.41 20598960.53 20598960.66 0.0089 0.0031

Neptune 51686-03-06 01:55 G 20599048.46 20599048.58 20599048.71 0.0089 0.0023

Neptune 51686-06-02 03:22 G 20599136.51 20599136.64 20599136.77 0.0089 0.0015

Neptune 51686-08-29 04:34 G 20599224.56 20599224.69 20599224.83 0.0089 0.0008

Neptune 51686-11-25 06:00 G 20599312.62 20599312.75 20599312.88 0.0089 0.0002

Neptune 51687-02-21 07:12 G 20599400.67 20599400.80 20599400.93 0.0089 0.0008

Neptune 51687-05-20 08:24 G 20599488.72 20599488.85 20599488.98 0.0089 0.0016

Neptune 51687-08-16 09:36 G 20599576.78 20599576.90 20599577.03 0.0089 0.0024

Saturn 51687-09-23 19:55 G 20599615.17 20599615.33 20599615.51 0.0262 0.0116

Neptune 51687-11-12 11:02 G 20599664.84 20599664.96 20599665.08 0.0089 0.0031

Saturn 51687-12-21 17:02 G 20599704.02 20599704.21 20599704.39 0.0262 0.0064

Neptune 51688-02-08 12:14 G 20599752.90 20599753.01 20599753.13 0.0089 0.0039

Saturn 51688-03-19 13:55 G 20599793.02 20599793.08 20599793.15 0.0262 0.0245

Neptune 51688-05-06 13:26 G 20599840.96 20599841.06 20599841.18 0.0089 0.0047

Jupiter 51688-06-14 19:41 G 20599880.13 20599880.32 20599880.50 0.0505 0.0094

Neptune 51688-08-02 14:38 G 20599929.02 20599929.11 20599929.22 0.0089 0.0055

Neptune 51688-10-29 16:05 G 20600017.08 20600017.17 20600017.26 0.0089 0.0062

Neptune 51689-01-25 17:17 G 20600105.15 20600105.22 20600105.30 0.0089 0.0070

Neptune 51689-04-23 18:14 G 20600193.22 20600193.26 20600193.34 0.0089 0.0078

Neptune 51689-07-20 19:55 G 20600281.30 20600281.33 20600281.36 0.0089 0.0085

Mars 51690-01-09 21:36 G 20600454.33 20600454.40 20600454.47 0.1824 0.1424

Mars 51690-11-08 01:55 G 20600756.43 20600756.58 20600756.73 0.1710 0.0645

Jupiter 51694-02-14 18:58 G 20601951.16 20601951.29 20601951.41 0.0521 0.0010

Earth 51697-12-22 11:31 G 20603357.89 20603357.98 20603358.08 0.2663 0.1284

Moon 51697-12-22 12:00 G 20603357.91 20603358.00 20603358.10 0.2668 0.1332 *

Mars 51699-06-02 06:58 G 20603884.68 20603884.79 20603884.91 0.1817 0.0251

Mars 51700-03-31 01:26 G 20604186.43 20604186.56 20604186.68 0.1717 0.1083

Jupiter 51700-04-03 16:05 G 20604190.03 20604190.17 20604190.32 0.0504 0.0309

Uranus 51701-02-09 21:36 G 20604502.35 20604502.40 20604502.46 0.0139 0.0126

Uranus 51701-05-09 00:43 G 20604590.46 20604590.53 20604590.63 0.0139 0.0107

Uranus 51701-08-05 04:19 G 20604678.58 20604678.68 20604678.78 0.0139 0.0085

Uranus 51701-11-01 07:26 G 20604766.70 20604766.81 20604766.93 0.0139 0.0065

Uranus 51702-01-28 10:48 G 20604854.82 20604854.95 20604855.07 0.0139 0.0044

Saturn 51702-04-24 21:36 G 20604941.29 20604941.40 20604941.51 0.0300 0.0160

Uranus 51702-04-26 13:55 G 20604942.95 20604943.08 20604943.21 0.0140 0.0024

Saturn 51702-07-22 10:05 G 20605029.79 20605029.92 20605030.05 0.0300 0.0022

Uranus 51702-07-23 17:17 G 20605031.09 20605031.22 20605031.35 0.0140 0.0003

Saturn 51702-10-18 22:19 G 20605118.34 20605118.43 20605118.53 0.0300 0.0203

Uranus 51702-10-19 20:24 G 20605119.22 20605119.35 20605119.48 0.0140 0.0018

Uranus 51703-01-15 23:46 G 20605207.36 20605207.49 20605207.61 0.0140 0.0038

Uranus 51703-04-14 02:53 G 20605295.51 20605295.62 20605295.74 0.0140 0.0059

Uranus 51703-07-11 06:00 G 20605383.65 20605383.75 20605383.87 0.0140 0.0080

Uranus 51703-10-07 09:22 G 20605471.81 20605471.89 20605471.98 0.0140 0.0101

Uranus 51704-01-03 12:43 G 20605559.97 20605560.03 20605560.09 0.0140 0.0121

Moon 51704-12-16 11:31 G 20605907.91 20605907.98 20605908.04 0.2666 0.2125

Earth 51704-12-16 12:00 G 20605907.94 20605908.00 20605908.07 0.2666 0.2097 *

Jupiter 51705-12-04 23:17 G 20606261.35 20606261.47 20606261.59 0.0522 0.0157

Jupiter 51706-03-04 03:50 G 20606350.60 20606350.66 20606350.71 0.0519 0.0463

Moon 51707-06-23 21:07 G 20606827.22 20606827.38 20606827.54 0.2662 0.0454

Earth 51707-06-23 22:19 G 20606827.27 20606827.43 20606827.59 0.2668 0.0287 *

Mars 51708-10-23 16:19 G 20607315.08 20607315.18 20607315.28 0.1810 0.0943

Venus 51710-10-01 08:24 G 20608022.82 20608022.85 20608022.88 0.3687 0.3484

Earth 51710-12-26 04:48 G 20608108.66 20608108.70 20608108.74 0.2662 0.2452

Moon 51710-12-26 05:31 G 20608108.71 20608108.73 20608108.75 0.2663 0.2579 *

Jupiter 51712-04-21 00:14 G 20608590.38 20608590.51 20608590.65 0.0506 0.0338

Venus 51716-04-15 23:17 G 20610046.38 20610046.47 20610046.57 0.3687 0.1209

Saturn 51717-02-10 21:22 G 20610347.24 20610347.39 20610347.55 0.0262 0.0149

Saturn 51717-05-10 18:14 G 20610436.07 20610436.26 20610436.45 0.0262 0.0032

Saturn 51717-08-07 15:07 G 20610525.03 20610525.13 20610525.25 0.0262 0.0213

Jupiter 51717-09-23 03:22 G 20610571.54 20610571.64 20610571.74 0.0523 0.0321

Moon 51717-12-19 05:02 G 20610658.61 20610658.71 20610658.81 0.2671 0.1000

Earth 51717-12-19 05:31 G 20610658.63 20610658.73 20610658.84 0.2665 0.0882 *

Jupiter 51717-12-21 08:10 G 20610660.74 20610660.84 20610660.94 0.0521 0.0306

Moon 51720-06-26 05:17 G 20611578.65 20611578.72 20611578.79 0.2668 0.2392

Earth 51720-06-26 06:58 G 20611578.74 20611578.79 20611578.84 0.2669 0.2508 *

Venus 51721-10-30 14:24 G 20612070.00 20612070.10 20612070.19 0.3687 0.1074

Jupiter 51724-02-07 20:24 G 20612900.17 20612900.35 20612900.53 0.0505 0.0114

Venus 51724-08-06 05:31 G 20613080.57 20613080.73 20613080.89 0.3683 0.0877

Venus 51727-05-16 05:17 G 20614093.68 20614093.72 20614093.76 0.3686 0.3345

Mars 51729-07-11 21:36 G 20614881.35 20614881.40 20614881.46 0.1823 0.1585

Jupiter 51729-07-12 07:41 G 20614881.77 20614881.82 20614881.87 0.0524 0.0480

Jupiter 51729-10-09 12:43 G 20614970.91 20614971.03 20614971.15 0.0521 0.0152

Mars 51730-05-10 02:24 G 20615183.45 20615183.60 20615183.74 0.1710 0.0857

Pluto 51730-08-01 16:19 G 20615267.08 20615267.18 20615267.33 0.0077 0.0057

Pluto 51730-10-28 18:58 G 20615355.13 20615355.29 20615355.46 0.0076 0.0036

Moon 51730-12-21 23:02 G 20615409.35 20615409.46 20615409.57 0.2670 0.0354

Earth 51730-12-21 23:02 G 20615409.35 20615409.46 20615409.57 0.2664 0.0320 *

Pluto 51731-01-24 21:22 G 20615443.21 20615443.39 20615443.58 0.0076 0.0015

Pluto 51731-04-22 23:46 G 20615531.31 20615531.49 20615531.68 0.0076 0.0007

Pluto 51731-07-20 01:55 G 20615619.41 20615619.58 20615619.76 0.0076 0.0027

Saturn 51731-09-12 00:58 G 20615673.45 20615673.54 20615673.64 0.0299 0.0193

Pluto 51731-10-16 04:05 G 20615707.54 20615707.67 20615707.83 0.0076 0.0048

Saturn 51731-12-09 13:26 G 20615761.93 20615762.06 20615762.19 0.0299 0.0012

Pluto 51732-01-12 06:14 G 20615795.70 20615795.76 20615795.86 0.0076 0.0069

Saturn 51732-03-07 01:41 G 20615850.47 20615850.57 20615850.68 0.0299 0.0170

Jupiter 51735-11-26 16:19 G 20617210.00 20617210.18 20617210.36 0.0505 0.0112

Mars 51738-12-02 06:58 G 20618311.68 20618311.79 20618311.90 0.1816 0.0391

Mars 51739-09-30 02:10 G 20618613.45 20618613.59 20618613.73 0.1717 0.0832

Moon 51740-06-20 20:38 G 20618878.30 20618878.36 20618878.42 0.2660 0.2476

Earth 51740-06-20 21:07 G 20618878.33 20618878.38 20618878.43 0.2666 0.2501 *

Jupiter 51741-07-28 17:17 G 20619281.10 20619281.22 20619281.35 0.0521 0.0007

Uranus 51741-09-08 01:41 G 20619322.50 20619322.57 20619322.68 0.0139 0.0122

Uranus 51741-12-05 10:05 G 20619410.78 20619410.92 20619411.07 0.0139 0.0091

Uranus 51742-03-03 18:00 G 20619499.08 20619499.25 20619499.43 0.0139 0.0061

Uranus 51742-05-31 01:55 G 20619587.40 20619587.58 20619587.78 0.0139 0.0031

Uranus 51742-08-27 10:05 G 20619675.72 20619675.92 20619676.12 0.0138 0.0001

Uranus 51742-11-23 18:00 G 20619764.06 20619764.25 20619764.45 0.0138 0.0030

Uranus 51743-02-20 01:55 G 20619852.41 20619852.58 20619852.76 0.0138 0.0061

Uranus 51743-05-19 09:50 G 20619940.77 20619940.91 20619941.07 0.0138 0.0091

Uranus 51743-08-15 17:46 G 20620029.16 20620029.24 20620029.35 0.0138 0.0121

Earth 51743-12-24 16:19 G 20620160.09 20620160.18 20620160.27 0.2663 0.1504

Moon 51743-12-24 16:48 G 20620160.12 20620160.20 20620160.29 0.2668 0.1576 *

Saturn 51746-06-30 20:53 G 20621079.25 20621079.37 20621079.50 0.0262 0.0197

Saturn 51746-09-27 17:46 G 20621168.05 20621168.24 20621168.43 0.0262 0.0018

Saturn 51746-12-25 14:38 G 20621256.97 20621257.11 20621257.27 0.0262 0.0163

Jupiter 51747-09-14 12:58 G 20621519.90 20621520.04 20621520.18 0.0504 0.0325

Mars 51748-04-23 16:19 G 20621742.08 20621742.18 20621742.29 0.1810 0.0787

Moon 51750-12-17 16:19 G 20622710.11 20622710.18 20622710.25 0.2668 0.2003

Earth 51750-12-17 16:48 G 20622710.13 20622710.20 20622710.28 0.2666 0.1860 *

Jupiter 51753-05-16 21:22 G 20623591.27 20623591.39 20623591.51 0.0522 0.0165

Moon 51753-06-24 04:05 G 20623629.50 20623629.67 20623629.83 0.2663 0.0098

Earth 51753-06-24 05:17 G 20623629.56 20623629.72 20623629.88 0.2668 0.0218 *

Jupiter 51753-08-14 01:55 G 20623680.53 20623680.58 20623680.64 0.0519 0.0455

Jupiter 51759-10-01 21:50 G 20625920.27 20625920.41 20625920.55 0.0506 0.0334

Saturn 51761-01-29 03:36 G 20626405.57 20626405.65 20626405.72 0.0300 0.0240

Saturn 51761-04-27 15:50 G 20626494.04 20626494.16 20626494.29 0.0300 0.0059

Saturn 51761-07-25 04:19 G 20626582.56 20626582.68 20626582.80 0.0300 0.0124

Moon 51763-12-20 09:50 G 20627460.81 20627460.91 20627461.02 0.2670 0.0655

Earth 51763-12-20 10:19 G 20627460.83 20627460.93 20627461.04 0.2665 0.0651 *

Jupiter 51765-03-05 01:41 G 20627901.47 20627901.57 20627901.67 0.0523 0.0327

Jupiter 51765-06-02 06:29 G 20627990.66 20627990.77 20627990.87 0.0520 0.0300

Venus 51767-05-08 05:46 G 20628695.67 20628695.74 20628695.80 0.3687 0.2649

Neptune 51768-06-01 13:55 G 20629086.07 20629086.08 20629086.10 0.0088 0.0088

Neptune 51768-08-28 17:31 G 20629174.14 20629174.23 20629174.33 0.0088 0.0077

Neptune 51768-11-24 20:53 G 20629262.26 20629262.37 20629262.52 0.0088 0.0066

Mars 51769-01-09 21:36 G 20629308.37 20629308.40 20629308.43 0.1823 0.1746

Neptune 51769-02-21 00:29 G 20629350.39 20629350.52 20629350.70 0.0088 0.0055

Neptune 51769-05-20 04:34 G 20629438.52 20629438.69 20629438.87 0.0088 0.0043

Neptune 51769-08-16 08:10 G 20629526.66 20629526.84 20629527.03 0.0088 0.0031

Mars 51769-11-08 03:07 G 20629610.50 20629610.63 20629610.75 0.1710 0.1104

Neptune 51769-11-12 12:00 G 20629614.81 20629615.00 20629615.19 0.0088 0.0020

Neptune 51770-02-08 15:36 G 20629702.96 20629703.15 20629703.35 0.0088 0.0009

Neptune 51770-05-07 19:26 G 20629791.11 20629791.31 20629791.51 0.0088 0.0003

Neptune 51770-08-03 23:02 G 20629879.27 20629879.46 20629879.66 0.0088 0.0015

Neptune 51770-10-31 02:38 G 20629967.43 20629967.61 20629967.81 0.0088 0.0026

Neptune 51771-01-27 06:14 G 20630055.59 20630055.76 20630055.95 0.0088 0.0038

Neptune 51771-04-25 09:50 G 20630143.76 20630143.91 20630144.09 0.0088 0.0050

Jupiter 51771-07-20 17:46 G 20630230.06 20630230.24 20630230.42 0.0505 0.0106

Neptune 51771-07-22 13:41 G 20630231.94 20630232.07 20630232.22 0.0088 0.0061

Neptune 51771-10-18 17:17 G 20630320.12 20630320.22 20630320.35 0.0088 0.0072

Neptune 51772-01-14 21:07 G 20630408.33 20630408.38 20630408.45 0.0088 0.0084

Venus 51772-11-20 20:38 G 20630719.26 20630719.36 20630719.46 0.3687 0.0371

Saturn 51775-11-17 22:19 G 20631811.34 20631811.43 20631811.52 0.0262 0.0230

Saturn 51776-02-14 19:12 G 20631900.11 20631900.30 20631900.49 0.0262 0.0050

Saturn 51776-05-13 16:05 G 20631989.00 20631989.17 20631989.34 0.0262 0.0130

Earth 51776-12-22 03:50 G 20632211.55 20632211.66 20632211.76 0.2664 0.0549

Moon 51776-12-22 04:05 G 20632211.56 20632211.67 20632211.77 0.2670 0.0534 *

Jupiter 51776-12-22 05:31 G 20632211.70 20632211.73 20632211.77 0.0524 0.0495 *

Jupiter 51777-03-21 10:34 G 20632300.82 20632300.94 20632301.06 0.0521 0.0139

Mars 51778-06-02 06:58 G 20632738.68 20632738.79 20632738.90 0.1817 0.0547

Venus 51778-06-06 11:31 G 20632742.90 20632742.98 20632743.07 0.3687 0.1911

Mars 51779-03-31 02:38 G 20633040.46 20633040.61 20633040.76 0.1717 0.0611

Venus 51781-03-13 08:24 G 20633753.72 20633753.85 20633753.98 0.3684 0.2156

Jupiter 51783-05-08 13:55 G 20634539.90 20634540.08 20634540.26 0.0504 0.0117

Uranus 51785-03-02 04:48 G 20635203.64 20635203.70 20635203.77 0.0139 0.0122

Uranus 51785-05-29 08:10 G 20635291.75 20635291.84 20635291.93 0.0139 0.0101

Uranus 51785-08-25 11:31 G 20635379.87 20635379.98 20635380.08 0.0139 0.0081

Uranus 51785-11-21 14:38 G 20635467.99 20635468.11 20635468.23 0.0139 0.0060

Uranus 51786-02-17 18:00 G 20635556.12 20635556.25 20635556.37 0.0140 0.0040

Uranus 51786-05-16 21:07 G 20635644.25 20635644.38 20635644.51 0.0140 0.0019

Moon 51786-06-22 03:07 G 20635680.54 20635680.63 20635680.72 0.2660 0.2184

Earth 51786-06-22 03:50 G 20635680.56 20635680.66 20635680.76 0.2666 0.2016 *

Uranus 51786-08-13 00:29 G 20635732.39 20635732.52 20635732.65 0.0140 0.0002

Uranus 51786-11-09 03:36 G 20635820.53 20635820.65 20635820.78 0.0140 0.0023

Uranus 51787-02-05 06:58 G 20635908.67 20635908.79 20635908.91 0.0140 0.0043

Uranus 51787-05-04 10:05 G 20635996.81 20635996.92 20635997.04 0.0140 0.0064

Uranus 51787-07-31 13:26 G 20636084.96 20636085.06 20636085.16 0.0140 0.0085

Mars 51787-10-23 16:19 G 20636169.07 20636169.18 20636169.29 0.1810 0.0630

Uranus 51787-10-27 16:34 G 20636173.11 20636173.19 20636173.28 0.0140 0.0106

Uranus 51788-01-23 19:55 G 20636261.28 20636261.33 20636261.39 0.0140 0.0127

Jupiter 51789-01-07 15:07 G 20636611.00 20636611.13 20636611.26 0.0522 0.0017

Earth 51789-12-24 21:07 G 20636962.30 20636962.38 20636962.46 0.2663 0.1730

Moon 51789-12-24 21:36 G 20636962.32 20636962.40 20636962.48 0.2667 0.1817 *

Saturn 51790-06-18 06:43 G 20637137.74 20637137.78 20637137.84 0.0299 0.0273

Saturn 51790-09-14 19:26 G 20637226.19 20637226.31 20637226.43 0.0299 0.0090

Saturn 51790-12-12 07:41 G 20637314.70 20637314.82 20637314.95 0.0299 0.0092

Saturn 51791-03-10 19:55 G 20637403.28 20637403.33 20637403.39 0.0299 0.0271

Jupiter 51795-02-24 09:36 G 20638849.77 20638849.90 20638850.04 0.0504 0.0344

Moon 51796-12-17 21:07 G 20639512.29 20639512.38 20639512.46 0.2669 0.1661

Earth 51796-12-17 21:36 G 20639512.32 20639512.40 20639512.49 0.2666 0.1628 *

Moon 51799-06-25 10:34 G 20640431.79 20640431.94 20640432.10 0.2664 0.0583

Earth 51799-06-25 12:00 G 20640431.85 20640432.00 20640432.16 0.2668 0.0718 *

Jupiter 51800-10-27 19:41 G 20640921.20 20640921.32 20640921.44 0.0522 0.0170

Jupiter 51801-01-25 00:14 G 20641010.46 20641010.51 20641010.58 0.0519 0.0452

Saturn 51805-07-04 18:43 G 20642632.11 20642632.28 20642632.46 0.0262 0.0098

Saturn 51805-10-01 15:36 G 20642720.97 20642721.15 20642721.33 0.0262 0.0082

Jupiter 51807-03-14 18:43 G 20643250.13 20643250.28 20643250.42 0.0506 0.0317

Mars 51809-05-10 03:50 G 20644037.56 20644037.66 20644037.76 0.1710 0.1348

Moon 51809-12-21 14:53 G 20644263.01 20644263.12 20644263.23 0.2670 0.0515

Earth 51809-12-21 15:07 G 20644263.02 20644263.13 20644263.24 0.2665 0.0419 *

Jupiter 51812-08-15 23:46 G 20645231.40 20645231.49 20645231.59 0.0523 0.0334

Jupiter 51812-11-13 04:34 G 20645320.59 20645320.69 20645320.80 0.0520 0.0292

Mars 51817-12-02 06:58 G 20647165.69 20647165.79 20647165.90 0.1817 0.0713

Mars 51818-09-30 03:22 G 20647467.48 20647467.64 20647467.80 0.1717 0.0374

Jupiter 51818-12-31 15:07 G 20647559.95 20647560.13 20647560.31 0.0505 0.0098

Saturn 51820-02-02 21:36 G 20647958.29 20647958.40 20647958.52 0.0300 0.0140

Saturn 51820-05-01 10:05 G 20648046.79 20648046.92 20648047.05 0.0300 0.0043

Saturn 51820-07-28 22:19 G 20648135.35 20648135.43 20648135.52 0.0300 0.0224

Earth 51822-12-24 08:38 G 20649013.75 20649013.86 20649013.96 0.2664 0.0779

Moon 51822-12-24 08:53 G 20649013.77 20649013.87 20649013.97 0.2670 0.0872 *

Venus 51823-12-14 02:53 G 20649368.53 20649368.62 20649368.71 0.3687 0.1805

Jupiter 51824-06-04 03:50 G 20649541.63 20649541.66 20649541.70 0.0523 0.0498

Jupiter 51824-09-01 08:53 G 20649630.75 20649630.87 20649631.00 0.0521 0.0135

Uranus 51825-09-29 08:53 G 20650023.77 20650023.87 20650023.98 0.0139 0.0115

Uranus 51825-12-26 16:48 G 20650112.05 20650112.20 20650112.36 0.0139 0.0085

Uranus 51826-03-25 00:43 G 20650200.36 20650200.53 20650200.72 0.0139 0.0055

Uranus 51826-06-21 08:53 G 20650288.68 20650288.87 20650289.07 0.0139 0.0024

Uranus 51826-09-17 17:02 G 20650377.01 20650377.21 20650377.40 0.0138 0.0007

Uranus 51826-12-15 00:58 G 20650465.35 20650465.54 20650465.73 0.0138 0.0037

Uranus 51827-03-13 08:38 G 20650553.70 20650553.86 20650554.04 0.0138 0.0068

Mars 51827-04-24 16:19 G 20650596.07 20650596.18 20650596.29 0.1810 0.0475

Uranus 51827-06-09 16:48 G 20650642.07 20650642.20 20650642.35 0.0138 0.0097

Uranus 51827-09-06 00:43 G 20650730.47 20650730.53 20650730.61 0.0138 0.0127

Venus 51829-06-28 17:46 G 20651392.15 20651392.24 20651392.34 0.3687 0.0497

Earth 51829-12-17 08:53 G 20651563.85 20651563.87 20651563.89 0.2667 0.2612

Jupiter 51830-10-19 11:17 G 20651869.79 20651869.97 20651870.15 0.0504 0.0124

Moon 51832-06-23 09:50 G 20652482.78 20652482.91 20652483.04 0.2660 0.1508

Earth 51832-06-23 10:34 G 20652482.81 20652482.94 20652483.07 0.2667 0.1531 *

Saturn 51834-11-21 19:41 G 20653364.16 20653364.32 20653364.49 0.0262 0.0134

Venus 51835-01-12 08:53 G 20653415.80 20653415.87 20653415.93 0.3686 0.2752

Saturn 51835-02-18 16:34 G 20653453.01 20653453.19 20653453.38 0.0262 0.0047

Saturn 51835-05-18 13:26 G 20653541.98 20653542.06 20653542.16 0.0262 0.0228

Earth 51835-12-27 01:55 G 20653764.50 20653764.58 20653764.65 0.2663 0.1954

Moon 51835-12-27 02:24 G 20653764.53 20653764.60 20653764.67 0.2665 0.1996 *

Jupiter 51836-06-20 12:58 G 20653940.92 20653941.04 20653941.17 0.0522 0.0034

Mars 51836-09-14 01:41 G 20654026.52 20654026.57 20654026.61 0.1803 0.1646

Jupiter 51842-08-07 07:26 G 20656179.68 20656179.81 20656179.95 0.0504 0.0344

Moon 51842-12-20 01:55 G 20656314.49 20656314.58 20656314.67 0.2670 0.1520

Earth 51842-12-20 02:24 G 20656314.51 20656314.60 20656314.70 0.2666 0.1394 *

Moon 51845-06-26 17:17 G 20657234.07 20657234.22 20657234.37 0.2666 0.0949

Earth 51845-06-26 18:58 G 20657234.15 20657234.29 20657234.43 0.2668 0.1215 *

Jupiter 51848-04-08 17:31 G 20658251.11 20658251.23 20658251.35 0.0522 0.0185

Jupiter 51848-07-06 22:19 G 20658340.36 20658340.43 20658340.49 0.0520 0.0437

Mars 51848-11-08 04:19 G 20658464.62 20658464.68 20658464.74 0.1710 0.1567

Neptune 51848-12-28 15:22 G 20658515.10 20658515.14 20658515.20 0.0089 0.0082

Neptune 51849-03-26 16:34 G 20658603.13 20658603.19 20658603.28 0.0089 0.0074

Saturn 51849-06-22 00:58 G 20658690.44 20658690.54 20658690.65 0.0299 0.0173

Neptune 51849-06-22 18:00 G 20658691.17 20658691.25 20658691.35 0.0089 0.0066

Saturn 51849-09-18 13:26 G 20658778.93 20658779.06 20658779.19 0.0299 0.0012

Neptune 51849-09-18 19:26 G 20658779.22 20658779.31 20658779.41 0.0089 0.0058

Neptune 51849-12-15 20:53 G 20658867.26 20658867.37 20658867.48 0.0089 0.0050

Saturn 51849-12-16 01:41 G 20658867.48 20658867.57 20658867.68 0.0299 0.0191 *

Neptune 51850-03-13 22:05 G 20658955.31 20658955.42 20658955.54 0.0089 0.0042

Neptune 51850-06-09 23:17 G 20659043.36 20659043.47 20659043.60 0.0089 0.0035

Neptune 51850-09-06 00:43 G 20659131.41 20659131.53 20659131.66 0.0089 0.0027

Neptune 51850-12-03 01:55 G 20659219.46 20659219.58 20659219.71 0.0089 0.0019

Neptune 51851-03-01 03:22 G 20659307.51 20659307.64 20659307.77 0.0089 0.0011

Neptune 51851-05-28 04:34 G 20659395.56 20659395.69 20659395.83 0.0089 0.0004

Neptune 51851-08-24 06:00 G 20659483.62 20659483.75 20659483.88 0.0089 0.0005

Neptune 51851-11-20 07:12 G 20659571.67 20659571.80 20659571.93 0.0089 0.0012

Neptune 51852-02-16 08:24 G 20659659.73 20659659.85 20659659.98 0.0089 0.0020

Neptune 51852-05-14 09:36 G 20659747.78 20659747.90 20659748.03 0.0089 0.0028

Neptune 51852-08-10 10:48 G 20659835.84 20659835.95 20659836.08 0.0089 0.0036

Neptune 51852-11-06 12:14 G 20659923.90 20659924.01 20659924.13 0.0089 0.0043

Neptune 51853-02-02 13:26 G 20660011.96 20660012.06 20660012.17 0.0089 0.0051

Neptune 51853-05-01 14:38 G 20660100.02 20660100.11 20660100.22 0.0089 0.0059

Neptune 51853-07-28 16:05 G 20660188.09 20660188.17 20660188.26 0.0089 0.0066

Neptune 51853-10-24 17:17 G 20660276.15 20660276.22 20660276.30 0.0089 0.0074

Neptune 51854-01-20 18:29 G 20660364.23 20660364.27 20660364.33 0.0089 0.0082

Jupiter 51854-08-24 15:22 G 20660579.99 20660580.14 20660580.29 0.0506 0.0298

Moon 51855-12-22 19:55 G 20661065.22 20661065.33 20661065.43 0.2671 0.0189

Earth 51855-12-22 19:55 G 20661065.22 20661065.33 20661065.44 0.2665 0.0193 *

Mars 51857-06-02 06:58 G 20661592.68 20661592.79 20661592.89 0.1816 0.0854

Mars 51858-03-31 04:05 G 20661894.50 20661894.67 20661894.83 0.1717 0.0136

Jupiter 51860-01-26 22:19 G 20662561.33 20662561.43 20662561.52 0.0523 0.0337

Jupiter 51860-04-25 03:07 G 20662650.52 20662650.63 20662650.73 0.0520 0.0290

Saturn 51864-04-09 19:41 G 20664096.18 20664096.32 20664096.45 0.0261 0.0180

Saturn 51864-07-07 16:19 G 20664184.99 20664185.18 20664185.37 0.0261 0.0002

Saturn 51864-10-04 12:58 G 20664273.91 20664274.04 20664274.19 0.0262 0.0180

Jupiter 51866-06-12 12:00 G 20664889.81 20664890.00 20664890.18 0.0505 0.0082

Mars 51866-10-23 16:19 G 20665023.06 20665023.18 20665023.29 0.1810 0.0321

Earth 51868-12-24 13:26 G 20665815.96 20665816.06 20665816.16 0.2664 0.1010

Moon 51868-12-24 13:41 G 20665815.97 20665816.07 20665816.17 0.2670 0.0987 *

Uranus 51868-12-25 08:38 G 20665816.85 20665816.86 20665816.88 0.0139 0.0138

Uranus 51869-03-23 12:00 G 20665904.93 20665905.00 20665905.07 0.0139 0.0117

Uranus 51869-06-19 15:07 G 20665993.04 20665993.13 20665993.23 0.0139 0.0097

Uranus 51869-09-15 18:29 G 20666081.16 20666081.27 20666081.38 0.0139 0.0076

Uranus 51869-12-12 21:50 G 20666169.29 20666169.41 20666169.53 0.0139 0.0056

Uranus 51870-03-11 00:58 G 20666257.42 20666257.54 20666257.67 0.0140 0.0035

Uranus 51870-06-07 04:19 G 20666345.55 20666345.68 20666345.81 0.0140 0.0014

Uranus 51870-09-03 07:26 G 20666433.68 20666433.81 20666433.95 0.0140 0.0008

Uranus 51870-11-30 10:48 G 20666521.82 20666521.95 20666522.08 0.0140 0.0027

Uranus 51871-02-26 13:55 G 20666609.96 20666610.08 20666610.21 0.0140 0.0048

Uranus 51871-05-25 17:17 G 20666698.11 20666698.22 20666698.34 0.0140 0.0069

Uranus 51871-08-21 20:38 G 20666786.26 20666786.36 20666786.46 0.0140 0.0089

Jupiter 51871-11-15 02:24 G 20666871.57 20666871.60 20666871.63 0.0523 0.0501

Uranus 51871-11-17 23:46 G 20666874.42 20666874.49 20666874.57 0.0140 0.0110

Jupiter 51872-02-12 07:26 G 20666960.68 20666960.81 20666960.93 0.0521 0.0131

Uranus 51872-02-14 02:53 G 20666962.59 20666962.62 20666962.67 0.0140 0.0132

Venus 51875-01-04 09:07 G 20668017.84 20668017.88 20668017.93 0.3687 0.3249

Moon 51875-12-18 12:58 G 20668366.00 20668366.04 20668366.08 0.2667 0.2451

Earth 51875-12-18 13:41 G 20668366.03 20668366.07 20668366.12 0.2667 0.2377 *

Mars 51876-03-15 01:41 G 20668453.50 20668453.57 20668453.63 0.1803 0.1480

Jupiter 51878-03-31 08:38 G 20669199.68 20669199.86 20669200.04 0.0505 0.0132

Moon 51878-06-24 16:34 G 20669285.05 20669285.19 20669285.33 0.2661 0.1248

Earth 51878-06-24 17:31 G 20669285.08 20669285.23 20669285.37 0.2667 0.1045 *

Saturn 51878-11-09 02:53 G 20669422.54 20669422.62 20669422.71 0.0300 0.0228

Saturn 51879-02-05 15:22 G 20669511.01 20669511.14 20669511.27 0.0300 0.0046

Saturn 51879-05-05 03:50 G 20669599.54 20669599.66 20669599.77 0.0300 0.0136

Venus 51880-07-20 00:14 G 20670041.41 20670041.51 20670041.60 0.3687 0.0967

Earth 51881-12-27 06:43 G 20670566.72 20670566.78 20670566.84 0.2662 0.2180

Moon 51881-12-27 07:12 G 20670566.75 20670566.80 20670566.85 0.2663 0.2321 *

Jupiter 51883-12-01 11:46 G 20671270.86 20671270.99 20671271.11 0.0521 0.0033

Venus 51886-02-02 15:07 G 20672065.04 20672065.13 20672065.22 0.3687 0.1318

Venus 51888-11-09 01:55 G 20673075.42 20673075.58 20673075.73 0.3684 0.1081

Moon 51888-12-20 06:43 G 20673116.68 20673116.78 20673116.88 0.2670 0.1209

Earth 51888-12-20 07:12 G 20673116.71 20673116.80 20673116.90 0.2666 0.1163 *

Pluto 51889-12-04 16:48 G 20673466.17 20673466.20 20673466.25 0.0068 0.0064

Jupiter 51890-01-17 05:17 G 20673509.59 20673509.72 20673509.85 0.0504 0.0347

Pluto 51890-03-02 17:31 G 20673554.15 20673554.23 20673554.32 0.0068 0.0053

Pluto 51890-05-29 18:00 G 20673642.15 20673642.25 20673642.36 0.0068 0.0043

Pluto 51890-08-25 18:29 G 20673730.16 20673730.27 20673730.40 0.0068 0.0032

Pluto 51890-11-21 19:12 G 20673818.17 20673818.30 20673818.43 0.0068 0.0021

Pluto 51891-02-17 19:55 G 20673906.19 20673906.33 20673906.46 0.0068 0.0010

Pluto 51891-05-16 20:24 G 20673994.22 20673994.35 20673994.49 0.0068 0.0002

Moon 51891-06-28 00:00 G 20674036.37 20674036.50 20674036.63 0.2667 0.1601

Earth 51891-06-28 01:41 G 20674036.45 20674036.57 20674036.70 0.2668 0.1713 *

Pluto 51891-08-12 21:07 G 20674082.24 20674082.38 20674082.51 0.0068 0.0012

Venus 51891-08-19 06:14 G 20674088.74 20674088.76 20674088.77 0.3686 0.3600

Pluto 51891-11-08 21:36 G 20674170.27 20674170.40 20674170.53 0.0068 0.0023

Pluto 51892-02-04 22:05 G 20674258.31 20674258.42 20674258.54 0.0068 0.0034

Pluto 51892-05-02 22:34 G 20674346.35 20674346.44 20674346.55 0.0069 0.0045

Pluto 51892-07-29 23:17 G 20674434.40 20674434.47 20674434.55 0.0069 0.0056

Pluto 51892-10-25 23:46 G 20674522.47 20674522.49 20674522.53 0.0069 0.0067

Saturn 51893-08-27 19:55 G 20674828.24 20674828.33 20674828.44 0.0262 0.0220

Saturn 51893-11-24 16:48 G 20674917.01 20674917.20 20674917.39 0.0262 0.0041

Saturn 51894-02-21 13:41 G 20675005.91 20675006.07 20675006.23 0.0262 0.0139

Jupiter 51895-09-19 15:36 G 20675581.04 20675581.15 20675581.27 0.0523 0.0196

Jupiter 51895-12-17 20:24 G 20675670.28 20675670.35 20675670.42 0.0520 0.0428

Mars 51896-12-01 06:58 G 20676019.69 20676019.79 20676019.88 0.1817 0.1014

Mars 51897-09-29 04:34 G 20676321.53 20676321.69 20676321.86 0.1717 0.0106

Moon 51901-12-24 00:43 G 20677867.42 20677867.53 20677867.64 0.2672 0.0001

Earth 51901-12-24 00:43 G 20677867.42 20677867.53 20677867.64 0.2665 0.0044 *

Jupiter 51902-02-04 13:41 G 20677909.92 20677910.07 20677910.22 0.0506 0.0304

Mars 51906-04-24 16:19 G 20679450.06 20679450.18 20679450.29 0.1810 0.0162

Mars 51907-02-20 04:05 G 20679751.62 20679751.67 20679751.72 0.1724 0.1631

Jupiter 51907-07-09 20:10 G 20679891.25 20679891.34 20679891.44 0.0523 0.0350

Jupiter 51907-10-07 01:12 G 20679980.44 20679980.55 20679980.65 0.0520 0.0279

Saturn 51908-03-29 06:00 G 20680154.70 20680154.75 20680154.81 0.0300 0.0265

Saturn 51908-06-25 18:29 G 20680243.15 20680243.27 20680243.40 0.0300 0.0082

Saturn 51908-09-22 06:58 G 20680331.67 20680331.79 20680331.91 0.0300 0.0100

Saturn 51908-12-19 19:12 G 20680420.26 20680420.30 20680420.35 0.0299 0.0280

Uranus 51909-07-24 07:55 G 20680636.82 20680636.83 20680636.86 0.0139 0.0138

Uranus 51909-10-20 15:50 G 20680725.05 20680725.16 20680725.29 0.0139 0.0108

Uranus 51910-01-16 23:46 G 20680813.34 20680813.49 20680813.67 0.0139 0.0078

Uranus 51910-04-15 07:55 G 20680901.65 20680901.83 20680902.02 0.0139 0.0047

Uranus 51910-07-12 16:05 G 20680989.98 20680990.17 20680990.37 0.0138 0.0017

Uranus 51910-10-09 00:00 G 20681078.31 20681078.50 20681078.70 0.0138 0.0014

Uranus 51911-01-05 07:55 G 20681166.65 20681166.83 20681167.02 0.0138 0.0044

Uranus 51911-04-03 15:50 G 20681255.00 20681255.16 20681255.33 0.0138 0.0074

Uranus 51911-07-01 00:00 G 20681343.38 20681343.50 20681343.63 0.0138 0.0104

Uranus 51911-09-27 07:55 G 20681431.80 20681431.83 20681431.88 0.0138 0.0134

Jupiter 51913-11-23 08:53 G 20682219.69 20682219.87 20682220.06 0.0505 0.0069

Earth 51914-12-26 18:00 G 20682618.16 20682618.25 20682618.35 0.2663 0.1228

Moon 51914-12-26 18:29 G 20682618.18 20682618.27 20682618.36 0.2669 0.1337 *

Mars 51915-09-15 01:26 G 20682880.49 20682880.56 20682880.64 0.1803 0.1344

Jupiter 51919-04-28 00:58 G 20684201.51 20684201.54 20684201.57 0.0524 0.0502

Jupiter 51919-07-26 06:00 G 20684290.62 20684290.75 20684290.87 0.0521 0.0131

Moon 51921-12-19 17:46 G 20685168.19 20685168.24 20685168.30 0.2668 0.2270

Earth 51921-12-19 18:29 G 20685168.21 20685168.27 20685168.34 0.2667 0.2141 *

Saturn 51923-04-14 16:34 G 20685649.01 20685649.19 20685649.37 0.0261 0.0088

Saturn 51923-07-12 13:12 G 20685737.88 20685738.05 20685738.24 0.0261 0.0091

Moon 51924-06-25 23:02 G 20686087.30 20686087.46 20686087.62 0.2662 0.0594

Earth 51924-06-26 00:14 G 20686087.35 20686087.51 20686087.67 0.2667 0.0554 *

Jupiter 51925-09-11 05:46 G 20686529.56 20686529.74 20686529.92 0.0505 0.0144

Earth 51927-12-29 11:17 G 20687368.93 20687368.97 20687369.02 0.2662 0.2403

Moon 51927-12-29 12:00 G 20687368.96 20687369.00 20687369.05 0.2663 0.2432 *

Jupiter 51931-05-14 10:19 G 20688600.80 20688600.93 20688601.05 0.0521 0.0029

Venus 51931-08-12 06:29 G 20688690.70 20688690.77 20688690.84 0.3687 0.2401

Neptune 51933-02-28 12:43 G 20689256.97 20689257.03 20689257.12 0.0088 0.0082

Neptune 51933-05-27 16:19 G 20689345.08 20689345.18 20689345.31 0.0088 0.0071

Neptune 51933-08-23 19:55 G 20689433.20 20689433.33 20689433.49 0.0088 0.0059

Neptune 51933-11-19 23:46 G 20689521.34 20689521.49 20689521.66 0.0088 0.0048

Neptune 51934-02-16 03:22 G 20689609.47 20689609.64 20689609.83 0.0088 0.0037

Neptune 51934-05-15 06:58 G 20689697.62 20689697.79 20689697.99 0.0088 0.0026

Neptune 51934-08-11 11:02 G 20689785.76 20689785.96 20689786.15 0.0088 0.0014

Neptune 51934-11-07 14:38 G 20689873.91 20689874.11 20689874.31 0.0088 0.0002

Moon 51934-12-22 11:31 G 20689918.88 20689918.98 20689919.08 0.2670 0.1001

Earth 51934-12-22 12:00 G 20689918.90 20689919.00 20689919.11 0.2665 0.0930 *

Neptune 51935-02-03 18:14 G 20689962.07 20689962.26 20689962.46 0.0088 0.0010

Neptune 51935-05-02 22:05 G 20690050.23 20690050.42 20690050.61 0.0088 0.0021

Neptune 51935-07-30 01:26 G 20690138.39 20690138.56 20690138.76 0.0088 0.0033

Neptune 51935-10-26 05:17 G 20690226.56 20690226.72 20690226.90 0.0088 0.0044

Neptune 51936-01-22 08:38 G 20690314.73 20690314.86 20690315.03 0.0088 0.0056

Neptune 51936-04-19 12:43 G 20690402.91 20690403.03 20690403.16 0.0088 0.0067

Mars 51936-06-02 06:58 G 20690446.70 20690446.79 20690446.88 0.1817 0.1176

Neptune 51936-07-16 16:05 G 20690491.10 20690491.17 20690491.28 0.0089 0.0079

Venus 51937-02-24 21:22 G 20690714.29 20690714.39 20690714.49 0.3687 0.0170

Mars 51937-03-31 05:17 G 20690748.56 20690748.72 20690748.88 0.1717 0.0329

Moon 51937-06-29 06:43 G 20690838.67 20690838.78 20690838.89 0.2667 0.1881

Earth 51937-06-29 08:38 G 20690838.77 20690838.86 20690838.95 0.2668 0.2206 *

Jupiter 51937-06-30 02:38 G 20690839.48 20690839.61 20690839.75 0.0504 0.0354

Saturn 51937-11-12 19:55 G 20690975.22 20690975.33 20690975.45 0.0300 0.0143

Saturn 51938-02-09 08:24 G 20691063.72 20691063.85 20691063.98 0.0300 0.0040

Saturn 51938-05-08 20:38 G 20691152.28 20691152.36 20691152.45 0.0300 0.0221

Venus 51942-09-10 12:29 G 20692737.94 20692738.02 20692738.10 0.3686 0.2163

Jupiter 51943-03-02 14:24 G 20692910.99 20692911.10 20692911.22 0.0522 0.0189

Jupiter 51943-05-30 19:12 G 20693000.23 20693000.30 20693000.37 0.0519 0.0433

Venus 51945-06-17 04:48 G 20693748.56 20693748.70 20693748.84 0.3684 0.1950

Mars 51945-10-23 16:19 G 20693877.06 20693877.18 20693877.29 0.1810 0.0050

Mars 51946-08-21 04:48 G 20694178.61 20694178.70 20694178.80 0.1724 0.1387

Moon 51947-12-25 05:31 G 20694669.62 20694669.73 20694669.84 0.2672 0.0308

Earth 51947-12-25 05:31 G 20694669.62 20694669.73 20694669.84 0.2664 0.0271 *

Jupiter 51949-07-17 11:31 G 20695239.84 20695239.98 20695240.13 0.0506 0.0306

Saturn 51952-08-31 16:34 G 20696381.03 20696381.19 20696381.35 0.0262 0.0133

Saturn 51952-11-28 13:12 G 20696469.87 20696470.05 20696470.24 0.0262 0.0047

Uranus 51953-01-15 15:36 G 20696518.13 20696518.15 20696518.19 0.0139 0.0135

Saturn 51953-02-25 10:05 G 20696558.83 20696558.92 20696559.02 0.0262 0.0227

Uranus 51953-04-13 18:43 G 20696606.22 20696606.28 20696606.36 0.0139 0.0115

Uranus 51953-07-10 22:05 G 20696694.33 20696694.42 20696694.52 0.0139 0.0094

Uranus 51953-10-07 01:26 G 20696782.45 20696782.56 20696782.67 0.0139 0.0073

Uranus 51954-01-03 04:34 G 20696870.58 20696870.69 20696870.82 0.0140 0.0053

Uranus 51954-04-01 07:55 G 20696958.71 20696958.83 20696958.96 0.0140 0.0032

Uranus 51954-06-28 11:17 G 20697046.84 20697046.97 20697047.10 0.0140 0.0011

Uranus 51954-09-24 14:38 G 20697134.98 20697135.11 20697135.24 0.0140 0.0011

Jupiter 51954-12-19 18:29 G 20697221.18 20697221.27 20697221.36 0.0523 0.0356

Uranus 51954-12-21 17:46 G 20697223.11 20697223.24 20697223.37 0.0140 0.0031

Mars 51955-03-16 01:41 G 20697307.48 20697307.57 20697307.65 0.1803 0.1176

Jupiter 51955-03-18 23:17 G 20697310.37 20697310.47 20697310.58 0.0521 0.0274

Uranus 51955-03-19 20:53 G 20697311.26 20697311.37 20697311.50 0.0140 0.0052

Uranus 51955-06-16 00:14 G 20697399.40 20697399.51 20697399.62 0.0140 0.0072

Uranus 51955-09-12 03:36 G 20697487.55 20697487.65 20697487.75 0.0140 0.0093

Uranus 51955-12-09 06:43 G 20697575.71 20697575.78 20697575.86 0.0140 0.0114

Uranus 51956-03-06 09:50 G 20697663.89 20697663.91 20697663.95 0.0140 0.0135

Earth 51960-12-26 22:48 G 20699420.36 20699420.45 20699420.54 0.2663 0.1456

Moon 51960-12-26 23:17 G 20699420.38 20699420.47 20699420.56 0.2667 0.1483 *

Jupiter 51961-05-05 07:55 G 20699549.64 20699549.83 20699550.01 0.0505 0.0083

Jupiter 51966-10-07 23:02 G 20701531.44 20701531.46 20701531.48 0.0524 0.0511

Jupiter 51967-01-05 04:05 G 20701620.55 20701620.67 20701620.79 0.0521 0.0123

Saturn 51967-04-01 22:48 G 20701707.35 20701707.45 20701707.55 0.0300 0.0184

Saturn 51967-06-29 11:17 G 20701795.84 20701795.97 20701796.10 0.0300 0.0003

Saturn 51967-09-25 23:46 G 20701884.38 20701884.49 20701884.59 0.0300 0.0180

Moon 51967-12-20 22:34 G 20701970.37 20701970.44 20701970.52 0.2668 0.1959

Earth 51967-12-20 23:17 G 20701970.40 20701970.47 20701970.55 0.2667 0.1910 *

Moon 51970-06-27 05:31 G 20702889.57 20702889.73 20702889.89 0.2664 0.0325

Earth 51970-06-27 06:58 G 20702889.63 20702889.79 20702889.95 0.2667 0.0070 *

Jupiter 51973-02-21 03:07 G 20703859.45 20703859.63 20703859.81 0.0505 0.0152

Earth 51973-12-29 16:05 G 20704171.16 20704171.17 20704171.19 0.2662 0.2623

Mars 51975-12-02 06:43 G 20704873.71 20704873.78 20704873.86 0.1817 0.1318

Pluto 51976-06-29 02:38 G 20705083.61 20705083.61 20705083.63 0.0077 0.0077

Pluto 51976-09-25 04:48 G 20705171.59 20705171.70 20705171.84 0.0077 0.0056

Mars 51976-09-29 06:00 G 20705175.60 20705175.75 20705175.91 0.1717 0.0583

Pluto 51976-12-22 07:12 G 20705259.65 20705259.80 20705259.98 0.0076 0.0035

Pluto 51977-03-20 09:36 G 20705347.72 20705347.90 20705348.09 0.0076 0.0014

Pluto 51977-06-16 12:00 G 20705435.82 20705436.00 20705436.19 0.0076 0.0008

Pluto 51977-09-12 14:24 G 20705523.93 20705524.10 20705524.28 0.0076 0.0028

Pluto 51977-12-09 16:34 G 20705612.06 20705612.19 20705612.34 0.0076 0.0049

Pluto 51978-03-07 18:43 G 20705700.22 20705700.28 20705700.37 0.0076 0.0070

Jupiter 51978-10-24 08:53 G 20705930.75 20705930.87 20705931.00 0.0522 0.0031

Moon 51980-12-22 16:34 G 20706721.09 20706721.19 20706721.29 0.2671 0.0758

Earth 51980-12-22 16:48 G 20706721.10 20706721.20 20706721.31 0.2665 0.0699 *

Saturn 51982-01-18 15:50 G 20707113.04 20707113.16 20707113.31 0.0261 0.0181

Saturn 51982-04-17 12:43 G 20707201.84 20707202.03 20707202.22 0.0261 0.0006

Saturn 51982-07-15 09:36 G 20707290.76 20707290.90 20707291.04 0.0261 0.0177

Moon 51983-06-30 13:41 G 20707641.04 20707641.07 20707641.10 0.2668 0.2611

Jupiter 51984-12-10 00:00 G 20708169.38 20708169.50 20708169.63 0.0504 0.0362

Mars 51985-04-23 16:19 G 20708304.06 20708304.18 20708304.29 0.1810 0.0154

Mars 51986-02-19 05:31 G 20708605.61 20708605.73 20708605.85 0.1723 0.1153

Venus 51988-03-18 03:50 G 20709363.57 20709363.66 20709363.75 0.3687 0.1570

Jupiter 51990-08-12 13:26 G 20710240.94 20710241.06 20710241.18 0.0522 0.0183

Jupiter 51990-11-09 18:00 G 20710330.19 20710330.25 20710330.32 0.0519 0.0439

Uranus 51993-08-13 14:53 G 20711338.07 20711338.12 20711338.20 0.0139 0.0131

Venus 51993-10-01 18:43 G 20711387.18 20711387.28 20711387.38 0.3687 0.0719

Uranus 51993-11-09 23:02 G 20711426.33 20711426.46 20711426.60 0.0139 0.0101

Earth 51993-12-25 10:19 G 20711471.82 20711471.93 20711472.03 0.2664 0.0503

Moon 51993-12-25 10:19 G 20711471.83 20711471.93 20711472.04 0.2671 0.0500 *

Uranus 51994-02-06 06:58 G 20711514.63 20711514.79 20711514.97 0.0139 0.0071

Uranus 51994-05-05 15:07 G 20711602.94 20711603.13 20711603.32 0.0139 0.0040

Uranus 51994-08-01 23:02 G 20711691.27 20711691.46 20711691.66 0.0138 0.0010

Mars 51994-09-14 01:41 G 20711734.47 20711734.57 20711734.66 0.1803 0.1019

Uranus 51994-10-29 06:58 G 20711779.60 20711779.79 20711779.99 0.0138 0.0021

Uranus 51995-01-25 14:53 G 20711867.95 20711868.12 20711868.31 0.0138 0.0052

Uranus 51995-04-23 23:02 G 20711956.31 20711956.46 20711956.62 0.0138 0.0081

Uranus 51995-07-21 07:12 G 20712044.68 20712044.80 20712044.91 0.0138 0.0111

Saturn 51996-08-18 23:46 G 20712439.42 20712439.49 20712439.56 0.0300 0.0252

Saturn 51996-11-15 12:14 G 20712527.89 20712528.01 20712528.14 0.0300 0.0069

Jupiter 51996-12-27 09:22 G 20712569.74 20712569.89 20712570.04 0.0506 0.0304

Saturn 51997-02-12 00:43 G 20712616.41 20712616.53 20712616.65 0.0300 0.0114

Saturn 51997-05-11 12:58 G 20712705.02 20712705.04 20712705.07 0.0300 0.0294

Venus 51999-04-17 09:36 G 20713410.85 20713410.90 20713410.96 0.3686 0.3003

53RD MILLENNIUM CE

This is a list of transits of Mercury in the 53rd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Jupiter 52002-05-31 17:31 G 20714551.14 20714551.23 20714551.33 0.0523 0.0344

Jupiter 52002-08-28 22:34 G 20714640.33 20714640.44 20714640.54 0.0520 0.0284

Moon 52003-06-25 05:02 G 20714940.64 20714940.71 20714940.79 0.2660 0.2341

Earth 52003-06-25 05:46 G 20714940.66 20714940.74 20714940.82 0.2666 0.2280 *

Earth 52006-12-28 03:36 G 20716222.57 20716222.65 20716222.73 0.2663 0.1679

Moon 52006-12-28 04:19 G 20716222.60 20716222.68 20716222.75 0.2666 0.1799 *

Jupiter 52008-10-15 06:14 G 20716879.57 20716879.76 20716879.94 0.0505 0.0089

Saturn 52011-06-07 15:22 G 20717845.06 20717845.14 20717845.23 0.0261 0.0231

Saturn 52011-09-04 12:00 G 20717933.82 20717934.00 20717934.19 0.0261 0.0053

Saturn 52011-12-02 08:53 G 20718022.70 20718022.87 20718023.04 0.0261 0.0126

Neptune 52013-06-29 14:10 G 20718598.06 20718598.09 20718598.13 0.0089 0.0085

Neptune 52013-09-25 15:36 G 20718686.09 20718686.15 20718686.21 0.0089 0.0077

Moon 52013-12-21 03:22 G 20718772.57 20718772.64 20718772.72 0.2668 0.1817

Earth 52013-12-21 04:05 G 20718772.59 20718772.67 20718772.76 0.2666 0.1675 *

Neptune 52013-12-22 16:34 G 20718774.12 20718774.19 20718774.28 0.0089 0.0070

Jupiter 52014-03-19 21:36 G 20718861.38 20718861.40 20718861.42 0.0524 0.0511

Neptune 52014-03-20 18:00 G 20718862.16 20718862.25 20718862.35 0.0089 0.0062

Neptune 52014-06-16 19:26 G 20718950.21 20718950.31 20718950.42 0.0089 0.0054

Jupiter 52014-06-17 02:38 G 20718950.49 20718950.61 20718950.73 0.0521 0.0123

Neptune 52014-09-12 20:38 G 20719038.26 20719038.36 20719038.48 0.0089 0.0046

Neptune 52014-12-09 22:05 G 20719126.30 20719126.42 20719126.54 0.0089 0.0038

Neptune 52015-03-07 23:17 G 20719214.35 20719214.47 20719214.60 0.0089 0.0031

Mars 52015-06-02 06:58 G 20719300.72 20719300.79 20719300.85 0.1817 0.1475

Neptune 52015-06-04 00:43 G 20719302.40 20719302.53 20719302.66 0.0089 0.0023

Neptune 52015-08-31 01:55 G 20719390.45 20719390.58 20719390.71 0.0089 0.0015

Neptune 52015-11-27 03:22 G 20719478.51 20719478.64 20719478.77 0.0089 0.0007

Neptune 52016-02-23 04:34 G 20719566.56 20719566.69 20719566.82 0.0089 0.0001

Mars 52016-03-30 06:29 G 20719602.63 20719602.77 20719602.92 0.1717 0.0798

Neptune 52016-05-21 05:46 G 20719654.61 20719654.74 20719654.88 0.0089 0.0009

Moon 52016-06-27 12:00 G 20719691.84 20719692.00 20719692.16 0.2664 0.0298

Earth 52016-06-27 13:41 G 20719691.92 20719692.07 20719692.23 0.2667 0.0426 *

Neptune 52016-08-17 07:12 G 20719742.67 20719742.80 20719742.93 0.0089 0.0016

Neptune 52016-11-13 08:24 G 20719830.73 20719830.85 20719830.98 0.0089 0.0024

Neptune 52017-02-09 09:36 G 20719918.78 20719918.90 20719919.03 0.0089 0.0032

Neptune 52017-05-08 10:48 G 20720006.84 20720006.95 20720007.08 0.0089 0.0040

Neptune 52017-08-04 12:14 G 20720094.90 20720095.01 20720095.12 0.0089 0.0047

Neptune 52017-10-31 13:26 G 20720182.96 20720183.06 20720183.17 0.0089 0.0055

Neptune 52018-01-27 14:38 G 20720271.03 20720271.11 20720271.21 0.0089 0.0063

Neptune 52018-04-25 15:50 G 20720359.09 20720359.16 20720359.25 0.0089 0.0071

Neptune 52018-07-22 17:17 G 20720447.16 20720447.22 20720447.28 0.0089 0.0078

Neptune 52018-10-18 18:29 G 20720535.25 20720535.27 20720535.31 0.0089 0.0086

Jupiter 52020-08-03 02:38 G 20721189.43 20721189.61 20721189.79 0.0504 0.0130

Mars 52024-10-22 16:05 G 20722731.06 20722731.17 20722731.29 0.1810 0.0309

Mars 52025-08-20 06:00 G 20723032.61 20723032.75 20723032.89 0.1724 0.0928

Saturn 52026-01-06 02:24 G 20723171.59 20723171.60 20723171.61 0.0300 0.0298

Saturn 52026-04-04 14:53 G 20723260.00 20723260.12 20723260.24 0.0300 0.0114

Jupiter 52026-04-05 07:26 G 20723260.68 20723260.81 20723260.93 0.0522 0.0029

Saturn 52026-07-02 03:22 G 20723348.51 20723348.64 20723348.76 0.0300 0.0068

Saturn 52026-09-28 15:36 G 20723437.08 20723437.15 20723437.22 0.0300 0.0249

Moon 52026-12-23 21:22 G 20723523.28 20723523.39 20723523.50 0.2672 0.0463

Earth 52026-12-23 21:36 G 20723523.29 20723523.40 20723523.51 0.2665 0.0470 *

Jupiter 52032-05-21 21:50 G 20725499.29 20725499.41 20725499.54 0.0504 0.0364

Mars 52034-03-15 01:26 G 20726161.46 20726161.56 20726161.66 0.1803 0.0872

Uranus 52037-02-04 22:34 G 20727219.40 20727219.44 20727219.48 0.0139 0.0131

Uranus 52037-05-04 01:55 G 20727307.50 20727307.58 20727307.66 0.0139 0.0111

Uranus 52037-07-31 05:02 G 20727395.62 20727395.71 20727395.81 0.0139 0.0090

Uranus 52037-10-27 08:24 G 20727483.74 20727483.85 20727483.96 0.0139 0.0069

Jupiter 52038-01-22 12:14 G 20727570.89 20727571.01 20727571.13 0.0522 0.0175

Uranus 52038-01-23 11:31 G 20727571.86 20727571.98 20727572.11 0.0139 0.0049

Uranus 52038-04-21 14:53 G 20727659.99 20727660.12 20727660.25 0.0140 0.0028

Jupiter 52038-04-21 16:48 G 20727660.15 20727660.20 20727660.27 0.0520 0.0448 *

Uranus 52038-07-18 18:14 G 20727748.13 20727748.26 20727748.39 0.0140 0.0008

Uranus 52038-10-14 21:22 G 20727836.26 20727836.39 20727836.52 0.0140 0.0014

Uranus 52039-01-11 00:43 G 20727924.40 20727924.53 20727924.66 0.0140 0.0034

Uranus 52039-04-09 03:50 G 20728012.54 20728012.66 20728012.78 0.0140 0.0055

Venus 52039-04-09 10:05 G 20728012.86 20728012.92 20728012.97 0.3687 0.3011

Uranus 52039-07-06 06:58 G 20728100.69 20728100.79 20728100.91 0.0140 0.0076

Uranus 52039-10-02 10:19 G 20728188.84 20728188.93 20728189.03 0.0140 0.0097

Earth 52039-12-26 15:07 G 20728274.02 20728274.13 20728274.23 0.2664 0.0732

Moon 52039-12-26 15:22 G 20728274.03 20728274.14 20728274.24 0.2670 0.0757 *

Uranus 52039-12-29 13:41 G 20728277.00 20728277.07 20728277.14 0.0140 0.0117

Uranus 52040-03-26 16:48 G 20728365.19 20728365.20 20728365.23 0.0140 0.0138

Saturn 52041-01-21 11:31 G 20728665.81 20728665.98 20728666.16 0.0261 0.0102

Saturn 52041-04-20 08:10 G 20728754.66 20728754.84 20728755.03 0.0261 0.0076

Saturn 52041-07-18 05:02 G 20728843.68 20728843.71 20728843.75 0.0261 0.0255

Jupiter 52044-06-08 06:58 G 20729899.64 20729899.79 20729899.94 0.0506 0.0300

Venus 52044-10-23 00:58 G 20730036.44 20730036.54 20730036.64 0.3687 0.0730

Earth 52046-12-19 15:22 G 20730824.14 20730824.14 20730824.14 0.2667 0.2662

Moon 52049-06-25 11:31 G 20731742.87 20731742.98 20731743.09 0.2661 0.1937

Earth 52049-06-25 12:29 G 20731742.90 20731743.02 20731743.14 0.2666 0.1797 *

Jupiter 52049-11-10 16:48 G 20731881.10 20731881.20 20731881.29 0.0523 0.0333

Jupiter 52050-02-07 21:36 G 20731970.29 20731970.40 20731970.50 0.0520 0.0295

Venus 52050-05-08 15:50 G 20732060.07 20732060.16 20732060.25 0.3687 0.1567

Earth 52052-12-28 08:24 G 20733024.78 20733024.85 20733024.92 0.2663 0.1907

Moon 52052-12-28 09:07 G 20733024.81 20733024.88 20733024.95 0.2666 0.1968 *

Venus 52053-02-11 22:19 G 20733070.27 20733070.43 20733070.58 0.3684 0.1255

Mars 52054-12-01 06:58 G 20733727.74 20733727.79 20733727.83 0.1817 0.1637

Saturn 52055-08-22 15:22 G 20733992.04 20733992.14 20733992.24 0.0300 0.0188

Mars 52055-09-29 07:12 G 20734029.67 20734029.80 20734029.93 0.1717 0.1037

Saturn 52055-11-19 03:50 G 20734080.53 20734080.66 20734080.79 0.0300 0.0006

Saturn 52056-02-15 16:19 G 20734169.07 20734169.18 20734169.28 0.0300 0.0177

Jupiter 52056-03-27 04:05 G 20734209.49 20734209.67 20734209.86 0.0505 0.0090

Moon 52059-12-22 08:24 G 20735574.76 20735574.85 20735574.94 0.2669 0.1462

Earth 52059-12-22 08:53 G 20735574.78 20735574.87 20735574.96 0.2666 0.1445 *

Jupiter 52061-08-29 20:53 G 20736191.33 20736191.37 20736191.41 0.0523 0.0493

Jupiter 52061-11-27 01:55 G 20736280.46 20736280.58 20736280.70 0.0521 0.0139

Moon 52062-06-28 18:58 G 20736494.13 20736494.29 20736494.45 0.2664 0.0680

Earth 52062-06-28 20:38 G 20736494.21 20736494.36 20736494.51 0.2668 0.0920 *

Mars 52064-04-22 16:19 G 20737158.06 20737158.18 20737158.29 0.1810 0.0461

Mars 52065-02-18 06:43 G 20737459.63 20737459.78 20737459.93 0.1724 0.0685

Jupiter 52068-01-14 01:12 G 20738519.37 20738519.55 20738519.73 0.0505 0.0121

Saturn 52070-06-10 10:05 G 20739397.78 20739397.92 20739398.08 0.0261 0.0158

Saturn 52070-09-07 06:58 G 20739486.60 20739486.79 20739486.98 0.0261 0.0020

Saturn 52070-12-05 03:50 G 20739575.53 20739575.66 20739575.78 0.0261 0.0200

Moon 52072-12-24 02:10 G 20740325.48 20740325.59 20740325.70 0.2672 0.0314

Earth 52072-12-24 02:24 G 20740325.49 20740325.60 20740325.71 0.2665 0.0236 *

Mars 52073-09-13 01:26 G 20740588.46 20740588.56 20740588.67 0.1803 0.0714

Jupiter 52073-09-15 06:14 G 20740590.63 20740590.76 20740590.88 0.0522 0.0029

Uranus 52077-09-02 21:22 G 20742039.32 20742039.39 20742039.48 0.0139 0.0126

Uranus 52077-11-30 05:17 G 20742127.60 20742127.72 20742127.88 0.0139 0.0096

Uranus 52078-02-26 13:26 G 20742215.90 20742216.06 20742216.24 0.0139 0.0065

Uranus 52078-05-25 21:36 G 20742304.21 20742304.40 20742304.59 0.0138 0.0035

Uranus 52078-08-22 05:31 G 20742392.54 20742392.73 20742392.93 0.0138 0.0005

Uranus 52078-11-18 13:26 G 20742480.87 20742481.06 20742481.26 0.0138 0.0026

Uranus 52079-02-14 21:22 G 20742569.22 20742569.39 20742569.58 0.0138 0.0057

Uranus 52079-05-14 05:31 G 20742657.58 20742657.73 20742657.89 0.0138 0.0087

Uranus 52079-08-10 13:12 G 20742745.96 20742746.05 20742746.17 0.0138 0.0117

Jupiter 52079-11-01 21:50 G 20742829.27 20742829.41 20742829.54 0.0504 0.0335

Saturn 52085-01-08 17:17 G 20744724.15 20744724.22 20744724.31 0.0300 0.0240

Saturn 52085-04-07 06:00 G 20744812.62 20744812.75 20744812.88 0.0300 0.0056

Jupiter 52085-07-04 10:48 G 20744900.83 20744900.95 20744901.07 0.0522 0.0174

Saturn 52085-07-04 18:29 G 20744901.15 20744901.27 20744901.38 0.0300 0.0126

Jupiter 52085-10-01 15:36 G 20744990.09 20744990.15 20744990.21 0.0520 0.0448

Earth 52085-12-26 19:41 G 20745076.22 20745076.32 20745076.43 0.2664 0.0957

Moon 52085-12-26 20:10 G 20745076.24 20745076.34 20745076.44 0.2669 0.1037 *

Jupiter 52091-11-19 05:02 G 20747229.56 20747229.71 20747229.86 0.0506 0.0302

Moon 52092-12-19 19:26 G 20747626.27 20747626.31 20747626.35 0.2666 0.2465

Earth 52092-12-19 20:10 G 20747626.30 20747626.34 20747626.38 0.2667 0.2427 *

Mars 52094-06-01 06:43 G 20748154.76 20748154.78 20748154.80 0.1817 0.1775

Mars 52095-03-30 07:55 G 20748456.72 20748456.83 20748456.94 0.1717 0.1282

Moon 52095-06-26 18:00 G 20748545.11 20748545.25 20748545.39 0.2661 0.1373

Earth 52095-06-26 19:12 G 20748545.17 20748545.30 20748545.44 0.2666 0.1310 *

Venus 52095-11-14 07:12 G 20748685.72 20748685.80 20748685.88 0.3687 0.2180

Jupiter 52097-04-22 15:50 G 20749211.06 20749211.16 20749211.25 0.0523 0.0322

Jupiter 52097-07-20 20:38 G 20749300.26 20749300.36 20749300.46 0.0520 0.0306

Neptune 52097-08-29 08:10 G 20749339.81 20749339.84 20749339.88 0.0088 0.0087

Neptune 52097-11-25 11:46 G 20749427.90 20749427.99 20749428.10 0.0088 0.0076

Neptune 52098-02-21 15:07 G 20749516.02 20749516.13 20749516.28 0.0088 0.0065

Neptune 52098-05-20 19:12 G 20749604.15 20749604.30 20749604.46 0.0088 0.0053

Neptune 52098-08-16 22:48 G 20749692.28 20749692.45 20749692.63 0.0088 0.0042

Neptune 52098-11-13 02:24 G 20749780.42 20749780.60 20749780.79 0.0088 0.0030

Earth 52098-12-29 13:12 G 20749826.99 20749827.05 20749827.11 0.2663 0.2128

Moon 52098-12-29 13:41 G 20749827.02 20749827.07 20749827.13 0.2665 0.2225 *

Neptune 52099-02-09 06:14 G 20749868.57 20749868.76 20749868.95 0.0088 0.0019

Neptune 52099-05-08 09:50 G 20749956.72 20749956.91 20749957.11 0.0088 0.0007

Neptune 52099-08-04 13:26 G 20750044.87 20750045.06 20750045.26 0.0088 0.0004

Saturn 52099-10-28 09:36 G 20750129.79 20750129.90 20750130.02 0.0261 0.0207

Neptune 52099-10-31 17:02 G 20750133.02 20750133.21 20750133.41 0.0088 0.0016

Saturn 52100-01-25 06:14 G 20750218.57 20750218.76 20750218.95 0.0261 0.0030

Neptune 52100-01-27 20:53 G 20750221.18 20750221.37 20750221.56 0.0088 0.0027

Saturn 52100-04-24 02:53 G 20750307.47 20750307.62 20750307.78 0.0261 0.0148

Neptune 52100-04-26 00:14 G 20750309.35 20750309.51 20750309.70 0.0088 0.0039

Neptune 52100-07-23 04:05 G 20750397.52 20750397.67 20750397.84 0.0088 0.0050

Neptune 52100-10-19 07:41 G 20750485.69 20750485.82 20750485.97 0.0088 0.0062

Neptune 52101-01-15 11:31 G 20750573.88 20750573.98 20750574.10 0.0088 0.0073

Neptune 52101-04-13 14:53 G 20750662.09 20750662.12 20750662.20 0.0088 0.0085

Venus 52101-05-30 22:19 G 20750709.33 20750709.43 20750709.53 0.3687 0.0195

Jupiter 52103-09-08 01:55 G 20751539.40 20751539.58 20751539.77 0.0505 0.0091

Mars 52103-10-23 16:05 G 20751585.06 20751585.17 20751585.28 0.1810 0.0611

Mars 52104-08-20 07:26 G 20751886.65 20751886.81 20751886.97 0.1723 0.0448

Moon 52105-12-23 13:12 G 20752376.96 20752377.05 20752377.15 0.2671 0.1335

Earth 52105-12-23 13:41 G 20752376.98 20752377.07 20752377.17 0.2666 0.1210 *

Venus 52106-12-14 13:12 G 20752732.97 20752733.05 20752733.12 0.3686 0.2398

Moon 52108-06-30 01:41 G 20753296.43 20753296.57 20753296.72 0.2666 0.1234

Earth 52108-06-30 03:22 G 20753296.51 20753296.64 20753296.78 0.2668 0.1414 *

Jupiter 52109-02-09 20:10 G 20753521.29 20753521.34 20753521.39 0.0523 0.0479

Jupiter 52109-05-10 01:12 G 20753610.43 20753610.55 20753610.67 0.0521 0.0153

Venus 52109-09-20 01:12 G 20753743.41 20753743.55 20753743.69 0.3684 0.1799

Mars 52113-03-15 01:41 G 20755015.46 20755015.57 20755015.68 0.1803 0.0553

Saturn 52114-08-26 06:14 G 20755544.65 20755544.76 20755544.88 0.0300 0.0133

Saturn 52114-11-22 18:43 G 20755633.15 20755633.28 20755633.41 0.0300 0.0051

Saturn 52115-02-19 06:58 G 20755721.72 20755721.79 20755721.88 0.0300 0.0232

Jupiter 52115-06-26 23:17 G 20755849.29 20755849.47 20755849.65 0.0505 0.0117

Moon 52118-12-26 06:58 G 20757127.69 20757127.79 20757127.90 0.2671 0.0086

Earth 52118-12-26 07:12 G 20757127.69 20757127.80 20757127.91 0.2665 0.0032 *

Jupiter 52121-02-26 05:46 G 20757920.61 20757920.74 20757920.86 0.0521 0.0012

Uranus 52121-02-26 05:17 G 20757920.68 20757920.72 20757920.78 0.0139 0.0128 *

Uranus 52121-05-25 08:38 G 20758008.78 20758008.86 20758008.95 0.0139 0.0107

Uranus 52121-08-21 12:00 G 20758096.90 20758097.00 20758097.10 0.0139 0.0087

Uranus 52121-11-17 15:07 G 20758185.02 20758185.13 20758185.25 0.0139 0.0067

Uranus 52122-02-13 18:29 G 20758273.15 20758273.27 20758273.40 0.0139 0.0046

Uranus 52122-05-12 21:50 G 20758361.28 20758361.41 20758361.54 0.0140 0.0025

Mars 52122-08-05 10:48 G 20758445.92 20758445.95 20758445.99 0.1796 0.1714

Uranus 52122-08-09 01:12 G 20758449.42 20758449.55 20758449.68 0.0140 0.0005

Uranus 52122-11-05 04:19 G 20758537.55 20758537.68 20758537.81 0.0140 0.0017

Uranus 52123-02-01 07:41 G 20758625.69 20758625.82 20758625.94 0.0140 0.0038

Uranus 52123-04-30 10:48 G 20758713.84 20758713.95 20758714.07 0.0140 0.0058

Uranus 52123-07-27 14:10 G 20758801.98 20758802.09 20758802.20 0.0140 0.0079

Uranus 52123-10-23 17:17 G 20758890.13 20758890.22 20758890.31 0.0140 0.0100

Uranus 52124-01-19 20:38 G 20758978.30 20758978.36 20758978.42 0.0140 0.0121

Jupiter 52127-04-14 20:38 G 20760159.22 20760159.36 20760159.50 0.0504 0.0323

Saturn 52129-06-14 04:19 G 20760950.50 20760950.68 20760950.86 0.0261 0.0091

Saturn 52129-09-11 00:58 G 20761039.36 20761039.54 20761039.72 0.0261 0.0088

Earth 52131-12-29 00:29 G 20761878.43 20761878.52 20761878.62 0.2664 0.1182

Moon 52131-12-29 00:58 G 20761878.45 20761878.54 20761878.64 0.2669 0.1200 *

Jupiter 52132-12-15 09:50 G 20762230.79 20762230.91 20762231.03 0.0522 0.0166

Jupiter 52133-03-14 14:24 G 20762320.05 20762320.10 20762320.16 0.0520 0.0457

Mars 52134-09-29 08:24 G 20762883.78 20762883.85 20762883.93 0.1717 0.1511

Pluto 52136-01-29 07:41 G 20763370.75 20763370.82 20763370.88 0.0068 0.0059

Pluto 52136-04-26 07:55 G 20763458.75 20763458.83 20763458.94 0.0068 0.0049

Pluto 52136-07-23 08:38 G 20763546.75 20763546.86 20763546.98 0.0068 0.0038

Pluto 52136-10-19 09:22 G 20763634.76 20763634.89 20763635.02 0.0068 0.0027

Pluto 52137-01-15 09:50 G 20763722.78 20763722.91 20763723.05 0.0068 0.0016

Pluto 52137-04-13 10:34 G 20763810.80 20763810.94 20763811.07 0.0068 0.0005

Pluto 52137-07-10 11:02 G 20763898.83 20763898.96 20763899.10 0.0068 0.0006

Pluto 52137-10-06 11:46 G 20763986.85 20763986.99 20763987.12 0.0068 0.0017

Pluto 52138-01-02 12:14 G 20764074.89 20764075.01 20764075.14 0.0068 0.0027

Pluto 52138-03-31 12:43 G 20764162.92 20764163.03 20764163.15 0.0068 0.0039

Pluto 52138-06-27 13:12 G 20764250.97 20764251.05 20764251.15 0.0069 0.0050

Pluto 52138-09-23 13:55 G 20764339.03 20764339.08 20764339.15 0.0069 0.0061

Moon 52138-12-22 00:14 G 20764428.46 20764428.51 20764428.57 0.2667 0.2318

Earth 52138-12-22 00:58 G 20764428.48 20764428.54 20764428.60 0.2667 0.2192 *

Jupiter 52139-05-02 05:17 G 20764559.59 20764559.72 20764559.86 0.0506 0.0336

Moon 52141-06-28 00:43 G 20765347.38 20765347.53 20765347.67 0.2662 0.1072

Earth 52141-06-28 01:55 G 20765347.43 20765347.58 20765347.73 0.2666 0.0831 *

Mars 52143-04-23 16:05 G 20766012.07 20766012.17 20766012.28 0.1810 0.0766

Saturn 52144-01-13 08:10 G 20766276.74 20766276.84 20766276.94 0.0300 0.0187

Mars 52144-02-19 07:55 G 20766313.67 20766313.83 20766314.00 0.1724 0.0226

Saturn 52144-04-10 20:38 G 20766365.23 20766365.36 20766365.49 0.0300 0.0010

Saturn 52144-07-08 09:07 G 20766453.78 20766453.88 20766453.98 0.0300 0.0178

Jupiter 52144-10-03 14:24 G 20766541.00 20766541.10 20766541.20 0.0523 0.0318

Earth 52144-12-30 18:00 G 20766629.20 20766629.25 20766629.29 0.2663 0.2353

Moon 52144-12-30 18:29 G 20766629.23 20766629.27 20766629.31 0.2663 0.2451 *

Jupiter 52144-12-31 19:26 G 20766630.21 20766630.31 20766630.41 0.0520 0.0311

Venus 52146-12-06 13:26 G 20767335.05 20767335.06 20767335.08 0.3687 0.3624

Jupiter 52151-02-18 00:29 G 20768869.34 20768869.52 20768869.70 0.0505 0.0097

Moon 52151-12-24 18:00 G 20769179.15 20769179.25 20769179.35 0.2672 0.0987

Earth 52151-12-24 18:29 G 20769179.17 20769179.27 20769179.37 0.2666 0.0979 *

Venus 52152-06-21 04:34 G 20769358.59 20769358.69 20769358.78 0.3687 0.1338

Mars 52152-09-13 01:26 G 20769442.45 20769442.56 20769442.67 0.1803 0.0412

Moon 52154-07-01 08:38 G 20770098.73 20770098.86 20770098.98 0.2668 0.1749

Earth 52154-07-01 10:19 G 20770098.82 20770098.93 20770099.04 0.2668 0.1911 *

Jupiter 52156-07-22 19:26 G 20770851.25 20770851.31 20770851.36 0.0524 0.0467

Jupiter 52156-10-20 00:29 G 20770940.40 20770940.52 20770940.64 0.0521 0.0167

Venus 52158-01-04 19:26 G 20771382.22 20771382.31 20771382.41 0.3686 0.0966

Saturn 52158-11-01 03:36 G 20771682.49 20771682.65 20771682.81 0.0261 0.0141

Saturn 52159-01-29 00:14 G 20771771.32 20771771.51 20771771.70 0.0261 0.0037

Saturn 52159-04-27 20:53 G 20771860.27 20771860.37 20771860.48 0.0261 0.0216

Uranus 52161-09-24 03:36 G 20772740.57 20772740.65 20772740.75 0.0139 0.0122

Uranus 52161-12-21 11:31 G 20772828.84 20772828.98 20772829.14 0.0139 0.0092

Mars 52162-02-03 11:02 G 20772872.90 20772872.96 20772873.02 0.1796 0.1546

Uranus 52162-03-19 19:26 G 20772917.15 20772917.31 20772917.50 0.0139 0.0062

Uranus 52162-06-16 03:36 G 20773005.46 20773005.65 20773005.85 0.0138 0.0031

Uranus 52162-09-12 11:46 G 20773093.79 20773093.99 20773094.18 0.0138 0.0002

Jupiter 52162-12-06 21:36 G 20773179.22 20773179.40 20773179.58 0.0505 0.0113

Uranus 52162-12-09 19:41 G 20773182.13 20773182.32 20773182.51 0.0138 0.0030

Uranus 52163-03-08 03:36 G 20773270.48 20773270.65 20773270.83 0.0138 0.0060

Uranus 52163-06-04 11:46 G 20773358.84 20773358.99 20773359.14 0.0138 0.0091

Venus 52163-07-21 10:34 G 20773405.89 20773405.94 20773405.98 0.3686 0.3245

Uranus 52163-08-31 19:26 G 20773447.23 20773447.31 20773447.41 0.0138 0.0121

Moon 52164-12-26 12:00 G 20773929.89 20773930.00 20773930.11 0.2671 0.0174

Earth 52164-12-26 12:00 G 20773929.89 20773930.00 20773930.11 0.2665 0.0227 *

Jupiter 52168-08-08 05:02 G 20775250.58 20775250.71 20775250.84 0.0521 0.0014

Saturn 52173-06-01 08:10 G 20777008.79 20777008.84 20777008.90 0.0300 0.0268

Saturn 52173-08-28 20:53 G 20777097.24 20777097.37 20777097.49 0.0300 0.0084

Saturn 52173-11-25 09:07 G 20777185.76 20777185.88 20777186.01 0.0300 0.0099

Saturn 52174-02-21 21:22 G 20777274.36 20777274.39 20777274.44 0.0300 0.0281

Jupiter 52174-09-24 18:58 G 20777489.15 20777489.29 20777489.43 0.0504 0.0316

Earth 52177-12-29 05:17 G 20778680.63 20778680.72 20778680.81 0.2664 0.1405

Moon 52177-12-29 05:46 G 20778680.66 20778680.74 20778680.83 0.2669 0.1528 *

Neptune 52177-12-29 12:58 G 20778681.04 20778681.04 20778681.04 0.0089 0.0089

Neptune 52178-03-27 14:10 G 20778769.04 20778769.09 20778769.15 0.0089 0.0081

Neptune 52178-06-23 15:22 G 20778857.08 20778857.14 20778857.22 0.0089 0.0073

Neptune 52178-09-19 16:48 G 20778945.12 20778945.20 20778945.29 0.0089 0.0065

Neptune 52178-12-16 18:00 G 20779033.16 20779033.25 20779033.36 0.0089 0.0058

Neptune 52179-03-14 19:12 G 20779121.20 20779121.30 20779121.42 0.0089 0.0050

Neptune 52179-06-10 20:38 G 20779209.25 20779209.36 20779209.48 0.0089 0.0042

Neptune 52179-09-06 22:05 G 20779297.30 20779297.42 20779297.54 0.0089 0.0034

Neptune 52179-12-03 23:31 G 20779385.35 20779385.48 20779385.60 0.0089 0.0026

Neptune 52180-03-01 00:43 G 20779473.40 20779473.53 20779473.66 0.0089 0.0018

Jupiter 52180-05-27 09:22 G 20779560.77 20779560.89 20779561.02 0.0522 0.0143

Neptune 52180-05-28 01:55 G 20779561.45 20779561.58 20779561.71 0.0089 0.0011

Neptune 52180-08-24 03:22 G 20779649.51 20779649.64 20779649.77 0.0089 0.0003

Jupiter 52180-08-24 14:10 G 20779650.04 20779650.09 20779650.13 0.0519 0.0478

Neptune 52180-11-20 04:34 G 20779737.56 20779737.69 20779737.82 0.0089 0.0005

Neptune 52181-02-16 05:46 G 20779825.62 20779825.74 20779825.88 0.0089 0.0013

Neptune 52181-05-15 06:58 G 20779913.67 20779913.79 20779913.93 0.0089 0.0021

Neptune 52181-08-11 08:24 G 20780001.73 20780001.85 20780001.98 0.0089 0.0028

Neptune 52181-11-07 09:36 G 20780089.79 20780089.90 20780090.03 0.0089 0.0036

Neptune 52182-02-03 10:48 G 20780177.85 20780177.95 20780178.07 0.0089 0.0044

Neptune 52182-05-02 12:00 G 20780265.91 20780266.00 20780266.12 0.0089 0.0052

Neptune 52182-07-29 13:41 G 20780353.97 20780354.07 20780354.16 0.0089 0.0059

Mars 52182-10-22 16:05 G 20780439.07 20780439.17 20780439.27 0.1810 0.0912

Neptune 52182-10-25 14:38 G 20780442.03 20780442.11 20780442.20 0.0089 0.0067

Neptune 52183-01-21 15:50 G 20780530.10 20780530.16 20780530.24 0.0089 0.0075

Neptune 52183-04-19 17:02 G 20780618.18 20780618.21 20780618.27 0.0089 0.0083

Mars 52183-08-20 08:38 G 20780740.70 20780740.86 20780741.03 0.1723 0.0017

Moon 52184-12-22 05:02 G 20781230.65 20781230.71 20781230.78 0.2669 0.2034

Earth 52184-12-22 05:46 G 20781230.67 20781230.74 20781230.81 0.2667 0.1956 *

Jupiter 52186-10-12 04:19 G 20781889.55 20781889.68 20781889.82 0.0506 0.0352

Moon 52187-06-29 07:26 G 20782149.65 20782149.81 20782149.97 0.2662 0.0400

Earth 52187-06-29 08:53 G 20782149.71 20782149.87 20782150.02 0.2667 0.0350 *

Saturn 52188-03-20 01:12 G 20782414.44 20782414.55 20782414.67 0.0261 0.0205

Saturn 52188-06-16 21:50 G 20782503.22 20782503.41 20782503.60 0.0261 0.0028

Saturn 52188-09-13 18:43 G 20782592.12 20782592.28 20782592.43 0.0261 0.0151

Earth 52190-12-31 22:34 G 20783431.42 20783431.44 20783431.47 0.2663 0.2575

Moon 52190-12-31 23:17 G 20783431.46 20783431.47 20783431.49 0.2661 0.2616 *

Mars 52192-03-14 01:26 G 20783869.45 20783869.56 20783869.68 0.1803 0.0252

Jupiter 52192-03-15 13:26 G 20783870.96 20783871.06 20783871.17 0.0523 0.0307

Jupiter 52192-06-12 18:29 G 20783960.17 20783960.27 20783960.37 0.0520 0.0321

Mars 52193-01-09 08:10 G 20784170.83 20784170.84 20784170.85 0.1730 0.1722

Moon 52197-12-24 22:48 G 20785981.35 20785981.45 20785981.56 0.2671 0.0852

Earth 52197-12-24 23:17 G 20785981.37 20785981.47 20785981.57 0.2666 0.0747 *

Jupiter 52198-07-31 00:58 G 20786199.36 20786199.54 20786199.72 0.0505 0.0134

Moon 52200-07-02 15:22 G 20786901.04 20786901.14 20786901.23 0.2669 0.2128

Earth 52200-07-02 17:02 G 20786901.15 20786901.21 20786901.28 0.2668 0.2405 *

Mars 52201-08-05 10:48 G 20787299.88 20787299.95 20787300.02 0.1796 0.1405

Saturn 52203-01-16 22:34 G 20787829.33 20787829.44 20787829.55 0.0300 0.0141

Saturn 52203-04-15 11:02 G 20787917.83 20787917.96 20787918.09 0.0300 0.0042

Saturn 52203-07-12 23:17 G 20788006.39 20788006.47 20788006.56 0.0300 0.0224

Venus 52203-07-14 10:48 G 20788007.88 20788007.95 20788008.01 0.3687 0.2779

Jupiter 52204-01-03 18:00 G 20788181.20 20788181.25 20788181.32 0.0524 0.0461

Jupiter 52204-04-01 23:17 G 20788270.35 20788270.47 20788270.59 0.0521 0.0174

Uranus 52205-03-19 12:29 G 20788621.97 20788622.02 20788622.08 0.0139 0.0123

Uranus 52205-06-15 15:36 G 20788710.07 20788710.15 20788710.25 0.0139 0.0103

Uranus 52205-09-11 18:58 G 20788798.19 20788798.29 20788798.40 0.0139 0.0082

Uranus 52205-12-08 22:19 G 20788886.31 20788886.43 20788886.55 0.0139 0.0062

Uranus 52206-03-07 01:26 G 20788974.44 20788974.56 20788974.69 0.0139 0.0042

Uranus 52206-06-03 04:48 G 20789062.58 20789062.70 20789062.83 0.0140 0.0021

Uranus 52206-08-30 08:10 G 20789150.71 20789150.84 20789150.97 0.0140 0.0001

Uranus 52206-11-26 11:17 G 20789238.85 20789238.97 20789239.10 0.0140 0.0022

Uranus 52207-02-22 14:38 G 20789326.99 20789327.11 20789327.24 0.0140 0.0042

Uranus 52207-05-21 17:46 G 20789415.13 20789415.24 20789415.36 0.0140 0.0063

Uranus 52207-08-17 21:07 G 20789503.28 20789503.38 20789503.49 0.0140 0.0083

Uranus 52207-11-14 00:14 G 20789591.43 20789591.51 20789591.60 0.0140 0.0104

Uranus 52208-02-10 03:22 G 20789679.60 20789679.64 20789679.71 0.0140 0.0126

Venus 52209-01-27 01:41 G 20790031.47 20790031.57 20790031.67 0.3687 0.0497

Jupiter 52210-05-19 20:10 G 20790509.16 20790509.34 20790509.52 0.0504 0.0103

Earth 52210-12-28 16:48 G 20790732.09 20790732.20 20790732.30 0.2665 0.0451

Moon 52210-12-28 17:02 G 20790732.10 20790732.21 20790732.31 0.2671 0.0537 *

Venus 52214-08-12 16:48 G 20792055.11 20792055.20 20792055.28 0.3686 0.1810

Jupiter 52216-01-20 04:05 G 20792580.55 20792580.67 20792580.80 0.0522 0.0033

Venus 52217-05-18 18:29 G 20793065.12 20793065.27 20793065.42 0.3684 0.1479

Saturn 52217-08-08 00:29 G 20793146.49 20793146.52 20793146.57 0.0261 0.0254

Saturn 52217-11-04 21:07 G 20793235.20 20793235.38 20793235.57 0.0261 0.0078

Saturn 52218-02-01 17:46 G 20793324.07 20793324.24 20793324.42 0.0261 0.0101

Moon 52220-06-27 06:43 G 20794200.73 20794200.78 20794200.82 0.2659 0.2543

Earth 52220-06-27 07:41 G 20794200.77 20794200.82 20794200.86 0.2665 0.2541 *

Jupiter 52222-03-07 17:17 G 20794819.08 20794819.22 20794819.37 0.0504 0.0310

Mars 52222-04-23 16:05 G 20794866.08 20794866.17 20794866.27 0.1810 0.1073

Pluto 52222-08-23 15:36 G 20794988.09 20794988.15 20794988.25 0.0077 0.0070

Pluto 52222-11-19 18:00 G 20795076.12 20795076.25 20795076.41 0.0077 0.0049

Pluto 52223-02-15 20:24 G 20795164.19 20795164.35 20795164.54 0.0076 0.0028

Mars 52223-02-19 09:22 G 20795167.73 20795167.89 20795168.05 0.1723 0.0251

Pluto 52223-05-14 23:02 G 20795252.28 20795252.46 20795252.65 0.0076 0.0006

Pluto 52223-08-11 01:12 G 20795340.38 20795340.55 20795340.74 0.0076 0.0015

Pluto 52223-11-07 03:22 G 20795428.49 20795428.64 20795428.82 0.0076 0.0036

Earth 52223-12-31 10:05 G 20795482.84 20795482.92 20795483.01 0.2664 0.1632

Moon 52223-12-31 10:48 G 20795482.86 20795482.95 20795483.03 0.2668 0.1648 *

Pluto 52224-02-03 05:31 G 20795516.63 20795516.73 20795516.88 0.0076 0.0057

Jupiter 52227-11-08 08:53 G 20796890.74 20796890.87 20796890.99 0.0522 0.0126

Jupiter 52228-02-05 13:26 G 20796980.03 20796980.06 20796980.10 0.0519 0.0495

Moon 52230-12-24 09:50 G 20798032.84 20798032.91 20798032.99 0.2670 0.1799

Earth 52230-12-24 10:34 G 20798032.86 20798032.94 20798033.02 0.2667 0.1725 *

Mars 52231-09-14 01:26 G 20798296.45 20798296.56 20798296.68 0.1803 0.0098

Saturn 52232-06-04 22:48 G 20798561.36 20798561.45 20798561.53 0.0300 0.0218

Mars 52232-07-11 08:53 G 20798597.78 20798597.87 20798597.95 0.1730 0.1487

Saturn 52232-09-01 11:17 G 20798649.84 20798649.97 20798650.10 0.0300 0.0035

Saturn 52232-11-28 23:31 G 20798738.37 20798738.48 20798738.60 0.0300 0.0147

Moon 52233-06-30 14:10 G 20798951.93 20798952.09 20798952.25 0.2664 0.0138

Earth 52233-06-30 15:36 G 20798951.99 20798952.15 20798952.31 0.2667 0.0148 *

Jupiter 52234-03-25 02:38 G 20799219.49 20799219.61 20799219.75 0.0506 0.0359

Jupiter 52239-08-27 13:12 G 20801200.95 20801201.05 20801201.16 0.0523 0.0283

Jupiter 52239-11-24 18:00 G 20801290.16 20801290.25 20801290.35 0.0520 0.0344

Mars 52241-02-03 11:02 G 20801726.87 20801726.96 20801727.04 0.1796 0.1246

Moon 52243-12-27 03:50 G 20802783.55 20802783.66 20802783.76 0.2671 0.0534

Earth 52243-12-27 04:05 G 20802783.56 20802783.67 20802783.78 0.2666 0.0515 *

Uranus 52245-10-15 09:36 G 20803441.81 20803441.90 20803442.02 0.0139 0.0118

Jupiter 52246-01-11 00:00 G 20803529.32 20803529.50 20803529.68 0.0505 0.0149

Uranus 52246-01-11 17:31 G 20803530.10 20803530.23 20803530.40 0.0139 0.0088

Uranus 52246-04-10 01:55 G 20803618.40 20803618.58 20803618.76 0.0139 0.0057

Uranus 52246-07-07 09:50 G 20803706.72 20803706.91 20803707.10 0.0138 0.0027

Uranus 52246-10-03 17:46 G 20803795.05 20803795.24 20803795.44 0.0138 0.0005

Uranus 52246-12-31 01:41 G 20803883.39 20803883.57 20803883.77 0.0138 0.0035

Saturn 52247-03-24 18:29 G 20803967.12 20803967.27 20803967.43 0.0261 0.0144

Uranus 52247-03-29 09:50 G 20803971.74 20803971.91 20803972.08 0.0138 0.0064

Saturn 52247-06-21 15:22 G 20804055.95 20804056.14 20804056.33 0.0261 0.0034

Uranus 52247-06-25 17:31 G 20804060.10 20804060.23 20804060.39 0.0138 0.0095

Saturn 52247-09-18 12:00 G 20804144.89 20804145.00 20804145.11 0.0261 0.0213

Uranus 52247-09-22 01:26 G 20804148.50 20804148.56 20804148.66 0.0138 0.0125

Jupiter 52251-06-15 17:17 G 20805511.16 20805511.22 20805511.28 0.0524 0.0448

Jupiter 52251-09-12 22:19 G 20805600.31 20805600.43 20805600.55 0.0521 0.0185

Earth 52256-12-28 21:36 G 20807534.29 20807534.40 20807534.50 0.2664 0.0682

Moon 52256-12-28 21:50 G 20807534.30 20807534.41 20807534.51 0.2671 0.0669 *

Jupiter 52257-10-29 20:38 G 20807839.17 20807839.36 20807839.54 0.0505 0.0066

Venus 52260-02-18 08:10 G 20808680.75 20808680.84 20808680.92 0.3687 0.1940

Mars 52261-10-22 16:05 G 20809293.08 20809293.17 20809293.25 0.1810 0.1221

Saturn 52261-10-23 00:14 G 20809293.47 20809293.51 20809293.56 0.0300 0.0278

Saturn 52262-01-19 12:43 G 20809381.91 20809382.03 20809382.16 0.0300 0.0095

Saturn 52262-04-18 01:12 G 20809470.43 20809470.55 20809470.68 0.0300 0.0088

Neptune 52262-05-28 06:58 G 20809510.73 20809510.79 20809510.89 0.0088 0.0081

Saturn 52262-07-15 13:41 G 20809559.01 20809559.07 20809559.12 0.0300 0.0269

Mars 52262-08-20 09:50 G 20809594.75 20809594.91 20809595.07 0.1724 0.0480

Neptune 52262-08-24 10:34 G 20809598.84 20809598.94 20809599.08 0.0088 0.0070

Neptune 52262-11-20 14:10 G 20809686.96 20809687.09 20809687.26 0.0088 0.0059

Neptune 52263-02-16 18:00 G 20809775.09 20809775.25 20809775.43 0.0088 0.0047

Neptune 52263-05-15 21:36 G 20809863.23 20809863.40 20809863.59 0.0088 0.0036

Jupiter 52263-07-02 03:07 G 20809910.50 20809910.63 20809910.76 0.0522 0.0035

Neptune 52263-08-12 01:12 G 20809951.37 20809951.55 20809951.75 0.0088 0.0025

Neptune 52263-11-08 05:02 G 20810039.52 20810039.71 20810039.91 0.0088 0.0013

Neptune 52264-02-04 08:53 G 20810127.67 20810127.87 20810128.06 0.0088 0.0002

Neptune 52264-05-02 12:14 G 20810215.82 20810216.01 20810216.22 0.0088 0.0011

Neptune 52264-07-29 16:05 G 20810303.98 20810304.17 20810304.36 0.0088 0.0022

Neptune 52264-10-25 19:26 G 20810392.14 20810392.31 20810392.51 0.0088 0.0034

Neptune 52265-01-21 23:17 G 20810480.31 20810480.47 20810480.65 0.0088 0.0045

Neptune 52265-04-20 03:07 G 20810568.48 20810568.63 20810568.78 0.0089 0.0056

Neptune 52265-07-17 06:29 G 20810656.66 20810656.77 20810656.91 0.0089 0.0068

Venus 52265-09-02 23:02 G 20810704.36 20810704.46 20810704.56 0.3686 0.0367

Neptune 52265-10-13 10:19 G 20810744.85 20810744.93 20810745.03 0.0089 0.0079

Moon 52266-06-28 13:26 G 20811002.97 20811003.06 20811003.14 0.2659 0.2228

Earth 52266-06-28 14:24 G 20811003.00 20811003.10 20811003.20 0.2666 0.2059 *

Jupiter 52269-08-17 15:50 G 20812149.02 20812149.16 20812149.32 0.0504 0.0300

Earth 52269-12-31 14:53 G 20812285.04 20812285.12 20812285.20 0.2663 0.1852

Moon 52269-12-31 15:36 G 20812285.08 20812285.15 20812285.22 0.2666 0.1992 *

Mars 52271-03-15 01:26 G 20812723.44 20812723.56 20812723.68 0.1803 0.0056

Venus 52271-03-19 13:55 G 20812728.02 20812728.08 20812728.15 0.3686 0.2654

Mars 52272-01-10 09:36 G 20813024.79 20813024.90 20813025.01 0.1730 0.1236

Venus 52273-12-23 21:22 G 20813738.25 20813738.39 20813738.54 0.3684 0.1575

Jupiter 52275-04-20 07:55 G 20814220.71 20814220.83 20814220.96 0.0523 0.0114

Jupiter 52275-07-18 12:43 G 20814310.01 20814310.03 20814310.05 0.0520 0.0509

Saturn 52276-08-10 18:00 G 20814699.13 20814699.25 20814699.38 0.0261 0.0192

Saturn 52276-11-07 14:38 G 20814787.92 20814788.11 20814788.30 0.0261 0.0015

Moon 52276-12-24 14:38 G 20814835.03 20814835.11 20814835.20 0.2670 0.1605

Earth 52276-12-24 15:22 G 20814835.05 20814835.14 20814835.23 0.2667 0.1490 *

Saturn 52277-02-04 11:17 G 20814876.83 20814876.97 20814877.12 0.0261 0.0165

Moon 52279-07-01 20:38 G 20815754.20 20815754.36 20815754.52 0.2666 0.0539

Earth 52279-07-01 22:19 G 20815754.28 20815754.43 20815754.59 0.2667 0.0632 *

Mars 52280-08-04 11:02 G 20816153.86 20816153.96 20816154.05 0.1796 0.1090

Jupiter 52281-09-04 01:12 G 20816549.42 20816549.55 20816549.67 0.0506 0.0364

Jupiter 52287-02-06 12:29 G 20818530.91 20818531.02 20818531.13 0.0523 0.0268

Jupiter 52287-05-06 17:17 G 20818620.13 20818620.22 20818620.31 0.0520 0.0360

Uranus 52289-04-08 19:26 G 20819323.25 20819323.31 20819323.38 0.0139 0.0119

Uranus 52289-07-05 22:48 G 20819411.36 20819411.45 20819411.55 0.0139 0.0099

Uranus 52289-10-02 01:55 G 20819499.48 20819499.58 20819499.70 0.0139 0.0079

Moon 52289-12-27 08:38 G 20819585.76 20819585.86 20819585.97 0.2672 0.0319

Earth 52289-12-27 08:53 G 20819585.76 20819585.87 20819585.98 0.2665 0.0288 *

Uranus 52289-12-29 05:17 G 20819587.61 20819587.72 20819587.85 0.0139 0.0058

Uranus 52290-03-27 08:38 G 20819675.74 20819675.86 20819675.99 0.0140 0.0037

Uranus 52290-06-23 12:00 G 20819763.87 20819764.00 20819764.13 0.0140 0.0016

Uranus 52290-09-19 15:22 G 20819852.01 20819852.14 20819852.27 0.0140 0.0006

Uranus 52290-12-16 18:29 G 20819940.14 20819940.27 20819940.40 0.0140 0.0026

Uranus 52291-03-14 21:50 G 20820028.28 20820028.41 20820028.53 0.0140 0.0046

Saturn 52291-06-08 13:12 G 20820113.94 20820114.05 20820114.16 0.0300 0.0169

Uranus 52291-06-11 00:58 G 20820116.43 20820116.54 20820116.66 0.0140 0.0067

Saturn 52291-09-05 01:41 G 20820202.44 20820202.57 20820202.70 0.0300 0.0014

Uranus 52291-09-07 04:05 G 20820204.58 20820204.67 20820204.78 0.0140 0.0088

Saturn 52291-12-02 14:10 G 20820290.99 20820291.09 20820291.18 0.0300 0.0195

Uranus 52291-12-04 07:26 G 20820292.73 20820292.81 20820292.90 0.0140 0.0109

Uranus 52292-03-01 10:48 G 20820380.90 20820380.95 20820381.00 0.0140 0.0129

Jupiter 52293-06-22 22:19 G 20820859.25 20820859.43 20820859.61 0.0505 0.0155

Jupiter 52298-11-25 16:48 G 20822841.13 20822841.20 20822841.28 0.0523 0.0426

Jupiter 52299-02-22 21:50 G 20822930.30 20822930.41 20822930.53 0.0521 0.0207

Mars 52301-04-23 16:05 G 20823720.09 20823720.17 20823720.24 0.1810 0.1374

Mars 52302-02-19 10:34 G 20824021.79 20824021.94 20824022.09 0.1723 0.0719

Earth 52302-12-31 02:24 G 20824336.49 20824336.60 20824336.70 0.2664 0.0907

Moon 52302-12-31 02:38 G 20824336.51 20824336.61 20824336.71 0.2671 0.0983 *

Jupiter 52305-04-11 19:26 G 20825169.13 20825169.31 20825169.50 0.0505 0.0053

Saturn 52305-12-29 15:07 G 20825431.12 20825431.13 20825431.17 0.0261 0.0260

Saturn 52306-03-28 12:00 G 20825519.82 20825520.00 20825520.18 0.0261 0.0082

Saturn 52306-06-25 08:38 G 20825608.69 20825608.86 20825609.04 0.0261 0.0097

Moon 52309-12-24 01:55 G 20826886.57 20826886.58 20826886.60 0.2668 0.2627

Earth 52309-12-24 02:38 G 20826886.57 20826886.61 20826886.65 0.2668 0.2478 *

Mars 52310-09-14 01:26 G 20827150.44 20827150.56 20827150.68 0.1803 0.0212

Jupiter 52310-12-13 02:10 G 20827240.46 20827240.59 20827240.72 0.0522 0.0046

Venus 52311-03-12 14:24 G 20827330.06 20827330.10 20827330.13 0.3687 0.3382

Mars 52311-07-12 09:50 G 20827451.78 20827451.91 20827452.04 0.1730 0.1030

Moon 52312-06-29 19:55 G 20827805.21 20827805.33 20827805.46 0.2660 0.1656

Earth 52312-06-29 20:53 G 20827805.25 20827805.37 20827805.50 0.2666 0.1590 *

Earth 52316-01-02 19:41 G 20829087.25 20829087.32 20829087.39 0.2663 0.2080

Moon 52316-01-02 20:24 G 20829087.28 20829087.35 20829087.41 0.2664 0.2118 *

Venus 52316-09-25 05:17 G 20829353.63 20829353.72 20829353.82 0.3687 0.1085

Jupiter 52317-01-28 16:19 G 20829479.02 20829479.18 20829479.34 0.0504 0.0266

Mars 52320-02-04 10:48 G 20830580.85 20830580.95 20830581.05 0.1796 0.0940

Saturn 52320-10-26 14:53 G 20830846.04 20830846.12 20830846.21 0.0300 0.0226

Saturn 52321-01-23 03:22 G 20830934.51 20830934.64 20830934.77 0.0300 0.0044

Saturn 52321-04-21 15:50 G 20831023.05 20831023.16 20831023.27 0.0300 0.0138

Venus 52322-04-10 20:24 G 20831377.25 20831377.35 20831377.44 0.3686 0.1221

Jupiter 52322-10-01 06:43 G 20831550.66 20831550.78 20831550.91 0.0522 0.0107

Moon 52322-12-26 19:41 G 20831637.22 20831637.32 20831637.41 0.2670 0.1304

Earth 52322-12-26 20:10 G 20831637.24 20831637.34 20831637.44 0.2667 0.1259 *

Jupiter 52322-12-29 11:31 G 20831639.97 20831639.98 20831639.99 0.0520 0.0515

Moon 52325-07-03 03:22 G 20832556.48 20832556.64 20832556.79 0.2667 0.0819

Earth 52325-07-03 05:02 G 20832556.57 20832556.71 20832556.86 0.2667 0.1120 *

Venus 52327-10-25 11:17 G 20833400.94 20833400.97 20833401.00 0.3686 0.3487

Jupiter 52328-11-16 12:00 G 20833788.97 20833789.00 20833789.03 0.0503 0.0494

Jupiter 52329-02-14 23:46 G 20833879.36 20833879.49 20833879.61 0.0505 0.0373

Uranus 52329-11-05 16:19 G 20834143.08 20834143.18 20834143.30 0.0139 0.0112

Uranus 52330-02-02 00:14 G 20834231.37 20834231.51 20834231.68 0.0139 0.0082

Uranus 52330-05-01 08:24 G 20834319.67 20834319.85 20834320.04 0.0139 0.0051

Uranus 52330-07-28 16:34 G 20834407.99 20834408.19 20834408.38 0.0138 0.0021

Uranus 52330-10-25 00:29 G 20834496.32 20834496.52 20834496.72 0.0138 0.0010

Uranus 52331-01-21 08:24 G 20834584.67 20834584.85 20834585.04 0.0138 0.0040

Uranus 52331-04-19 16:19 G 20834673.02 20834673.18 20834673.35 0.0138 0.0070

Uranus 52331-07-17 00:14 G 20834761.39 20834761.51 20834761.65 0.0138 0.0101

Uranus 52331-10-13 08:24 G 20834849.79 20834849.85 20834849.91 0.0138 0.0130

Jupiter 52334-07-20 11:31 G 20835860.87 20835860.98 20835861.09 0.0523 0.0259

Jupiter 52334-10-17 16:19 G 20835950.10 20835950.18 20835950.27 0.0521 0.0370

Saturn 52335-08-15 11:31 G 20836251.82 20836251.98 20836252.15 0.0262 0.0129

Saturn 52335-11-12 08:24 G 20836340.66 20836340.85 20836341.04 0.0262 0.0050

Moon 52335-12-29 13:41 G 20836387.96 20836388.07 20836388.18 0.2672 0.0080

Earth 52335-12-29 13:41 G 20836387.96 20836388.07 20836388.18 0.2665 0.0060 *

Saturn 52336-02-09 05:02 G 20836429.63 20836429.71 20836429.80 0.0262 0.0230

Mars 52340-10-22 16:05 G 20838147.11 20838147.17 20838147.23 0.1810 0.1526

Jupiter 52340-12-03 20:24 G 20838189.18 20838189.35 20838189.53 0.0505 0.0160

Mars 52341-08-20 11:17 G 20838448.83 20838448.97 20838449.10 0.1723 0.0952

Neptune 52342-09-27 12:43 G 20838852.00 20838852.03 20838852.07 0.0089 0.0085

Neptune 52342-12-24 14:10 G 20838940.03 20838940.09 20838940.16 0.0089 0.0077

Neptune 52343-03-22 15:22 G 20839028.07 20839028.14 20839028.23 0.0089 0.0069

Neptune 52343-06-18 16:34 G 20839116.11 20839116.19 20839116.29 0.0089 0.0062

Neptune 52343-09-14 18:00 G 20839204.15 20839204.25 20839204.36 0.0089 0.0054

Neptune 52343-12-11 19:12 G 20839292.20 20839292.30 20839292.42 0.0089 0.0046

Neptune 52344-03-08 20:38 G 20839380.24 20839380.36 20839380.48 0.0089 0.0038

Neptune 52344-06-04 22:05 G 20839468.29 20839468.42 20839468.54 0.0089 0.0030

Neptune 52344-08-31 23:17 G 20839556.34 20839556.47 20839556.60 0.0089 0.0022

Neptune 52344-11-28 00:29 G 20839644.40 20839644.52 20839644.66 0.0089 0.0015

Neptune 52345-02-24 01:55 G 20839732.45 20839732.58 20839732.71 0.0089 0.0007

Neptune 52345-05-23 03:07 G 20839820.50 20839820.63 20839820.77 0.0089 0.0002

Neptune 52345-08-19 04:34 G 20839908.56 20839908.69 20839908.82 0.0089 0.0009

Neptune 52345-11-15 05:46 G 20839996.61 20839996.74 20839996.87 0.0089 0.0017

Neptune 52346-02-11 06:58 G 20840084.67 20840084.79 20840084.92 0.0089 0.0025

Jupiter 52346-05-08 16:05 G 20840171.09 20840171.17 20840171.24 0.0524 0.0415

Neptune 52346-05-10 08:24 G 20840172.73 20840172.85 20840172.97 0.0089 0.0032

Jupiter 52346-08-05 21:07 G 20840260.26 20840260.38 20840260.49 0.0521 0.0219

Neptune 52346-08-06 09:36 G 20840260.79 20840260.90 20840261.02 0.0089 0.0040

Neptune 52346-11-02 10:48 G 20840348.85 20840348.95 20840349.07 0.0089 0.0048

Neptune 52347-01-29 12:00 G 20840436.91 20840437.00 20840437.11 0.0089 0.0056

Neptune 52347-04-27 13:26 G 20840524.97 20840525.06 20840525.15 0.0089 0.0063

Neptune 52347-07-24 14:38 G 20840613.04 20840613.11 20840613.19 0.0089 0.0071

Neptune 52347-10-20 15:50 G 20840701.11 20840701.16 20840701.23 0.0089 0.0079

Neptune 52348-01-16 17:17 G 20840789.20 20840789.22 20840789.25 0.0089 0.0086

Earth 52348-12-31 07:12 G 20841138.70 20841138.80 20841138.89 0.2664 0.1135

Moon 52348-12-31 07:26 G 20841138.72 20841138.81 20841138.91 0.2669 0.1173 *

Mars 52350-03-15 01:26 G 20841577.45 20841577.56 20841577.68 0.1803 0.0372

Saturn 52350-03-15 15:36 G 20841578.13 20841578.15 20841578.17 0.0299 0.0295

Saturn 52350-06-12 04:05 G 20841666.55 20841666.67 20841666.79 0.0300 0.0113

Saturn 52350-09-08 16:34 G 20841755.06 20841755.19 20841755.32 0.0300 0.0069

Saturn 52350-12-06 04:48 G 20841843.63 20841843.70 20841843.77 0.0300 0.0249

Mars 52351-01-10 10:34 G 20841878.80 20841878.94 20841879.09 0.1730 0.0788

Jupiter 52352-09-21 17:46 G 20842499.05 20842499.24 20842499.42 0.0505 0.0051

Moon 52355-12-25 06:43 G 20843688.72 20843688.78 20843688.83 0.2669 0.2272

Earth 52355-12-25 07:26 G 20843688.75 20843688.81 20843688.87 0.2668 0.2243 *

Jupiter 52358-05-25 01:41 G 20844570.44 20844570.57 20844570.69 0.0522 0.0065

Moon 52358-07-01 02:24 G 20844607.46 20844607.60 20844607.75 0.2662 0.1246

Earth 52358-07-01 03:50 G 20844607.52 20844607.66 20844607.81 0.2666 0.1098 *

Mars 52359-08-05 10:48 G 20845007.85 20845007.95 20845008.06 0.1796 0.0786

Earth 52362-01-03 00:29 G 20845889.47 20845889.52 20845889.57 0.2663 0.2301

Moon 52362-01-03 01:12 G 20845889.51 20845889.55 20845889.59 0.2664 0.2436 *

Jupiter 52364-07-10 14:53 G 20846808.96 20846809.12 20846809.28 0.0504 0.0256

Saturn 52365-01-01 09:07 G 20846983.76 20846983.88 20846984.01 0.0262 0.0194

Saturn 52365-03-31 05:46 G 20847072.55 20847072.74 20847072.93 0.0261 0.0017

Saturn 52365-06-28 02:24 G 20847161.46 20847161.60 20847161.76 0.0261 0.0163

Venus 52367-10-17 11:31 G 20848002.91 20848002.98 20848003.05 0.3687 0.2543

Moon 52368-12-27 00:29 G 20848439.42 20848439.52 20848439.62 0.2671 0.1140

Earth 52368-12-27 00:58 G 20848439.44 20848439.54 20848439.64 0.2666 0.1030 *

Jupiter 52370-03-13 05:46 G 20848880.62 20848880.74 20848880.86 0.0522 0.0098

Moon 52371-07-04 10:05 G 20849358.78 20849358.92 20849359.05 0.2667 0.1475

Earth 52371-07-04 12:00 G 20849358.87 20849359.00 20849359.12 0.2667 0.1608 *

Uranus 52373-01-31 23:17 G 20849936.45 20849936.47 20849936.51 0.0139 0.0136

Uranus 52373-04-30 02:53 G 20850024.54 20850024.62 20850024.69 0.0139 0.0115

Venus 52373-05-02 02:38 G 20850026.51 20850026.61 20850026.71 0.3687 0.0255

Uranus 52373-07-27 06:00 G 20850112.66 20850112.75 20850112.85 0.0139 0.0094

Uranus 52373-10-23 09:07 G 20850200.78 20850200.88 20850201.00 0.0139 0.0074

Uranus 52374-01-19 12:29 G 20850288.90 20850289.02 20850289.15 0.0140 0.0053

Uranus 52374-04-17 15:50 G 20850377.03 20850377.16 20850377.29 0.0140 0.0032

Uranus 52374-07-14 19:12 G 20850465.17 20850465.30 20850465.43 0.0140 0.0012

Uranus 52374-10-10 22:19 G 20850553.30 20850553.43 20850553.56 0.0140 0.0010

Uranus 52375-01-07 01:41 G 20850641.44 20850641.57 20850641.70 0.0140 0.0030

Uranus 52375-04-05 04:48 G 20850729.58 20850729.70 20850729.83 0.0140 0.0051

Uranus 52375-07-02 07:55 G 20850817.73 20850817.83 20850817.95 0.0140 0.0072

Uranus 52375-09-28 11:17 G 20850905.88 20850905.97 20850906.07 0.0140 0.0093

Uranus 52375-12-25 14:38 G 20850994.04 20850994.11 20850994.19 0.0140 0.0113

Uranus 52376-03-22 17:46 G 20851082.21 20851082.24 20851082.28 0.0140 0.0134

Jupiter 52376-04-28 11:46 G 20851118.93 20851118.99 20851119.06 0.0503 0.0466

Jupiter 52376-07-27 23:46 G 20851209.38 20851209.49 20851209.60 0.0506 0.0405

Venus 52378-11-15 17:31 G 20852050.15 20852050.23 20852050.31 0.3686 0.2042

Saturn 52379-10-30 05:46 G 20852398.64 20852398.74 20852398.85 0.0299 0.0170

Saturn 52380-01-26 18:29 G 20852487.14 20852487.27 20852487.40 0.0300 0.0016

Mars 52380-04-22 16:05 G 20852574.13 20852574.17 20852574.21 0.1810 0.1679

Saturn 52380-04-24 06:43 G 20852575.68 20852575.78 20852575.88 0.0300 0.0194

Mars 52381-02-18 11:46 G 20852875.87 20852875.99 20852876.11 0.1723 0.1179

Venus 52381-08-21 15:07 G 20853059.98 20853060.13 20853060.27 0.3684 0.1622

Pluto 52381-12-26 21:36 G 20853187.37 20853187.40 20853187.44 0.0067 0.0065

Moon 52381-12-29 18:29 G 20853190.16 20853190.27 20853190.38 0.2672 0.0210

Earth 52381-12-29 18:29 G 20853190.16 20853190.27 20853190.38 0.2665 0.0172 *

Jupiter 52381-12-30 10:19 G 20853190.82 20853190.93 20853191.04 0.0523 0.0254

Pluto 52382-03-24 21:50 G 20853275.35 20853275.41 20853275.51 0.0068 0.0055

Jupiter 52382-03-29 15:07 G 20853280.05 20853280.13 20853280.22 0.0521 0.0375

Pluto 52382-06-20 22:34 G 20853363.35 20853363.44 20853363.56 0.0068 0.0044

Pluto 52382-09-16 23:17 G 20853451.36 20853451.47 20853451.60 0.0068 0.0033

Pluto 52382-12-14 00:00 G 20853539.37 20853539.50 20853539.63 0.0068 0.0022

Pluto 52383-03-12 00:43 G 20853627.39 20853627.53 20853627.66 0.0068 0.0011

Pluto 52383-06-08 01:12 G 20853715.41 20853715.55 20853715.69 0.0068 0.0000

Pluto 52383-09-04 01:41 G 20853803.44 20853803.57 20853803.71 0.0068 0.0011

Pluto 52383-12-01 02:24 G 20853891.47 20853891.60 20853891.73 0.0068 0.0022

Pluto 52384-02-27 02:53 G 20853979.50 20853979.62 20853979.74 0.0068 0.0033

Pluto 52384-05-25 03:22 G 20854067.54 20854067.64 20854067.75 0.0068 0.0044

Pluto 52384-08-21 04:05 G 20854155.59 20854155.67 20854155.75 0.0069 0.0055

Pluto 52384-11-17 04:34 G 20854243.66 20854243.69 20854243.73 0.0069 0.0066

Jupiter 52388-05-15 18:58 G 20855519.12 20855519.29 20855519.47 0.0505 0.0167

Mars 52389-09-13 01:26 G 20856004.45 20856004.56 20856004.67 0.1803 0.0513

Mars 52390-07-11 11:17 G 20856305.82 20856305.97 20856306.13 0.1730 0.0545

Jupiter 52393-10-18 14:53 G 20857501.04 20857501.12 20857501.20 0.0524 0.0410

Jupiter 52394-01-15 19:55 G 20857590.22 20857590.33 20857590.44 0.0522 0.0225

Saturn 52394-05-21 09:07 G 20857715.81 20857715.88 20857715.96 0.0262 0.0238

Saturn 52394-08-18 05:46 G 20857804.56 20857804.74 20857804.93 0.0262 0.0060

Saturn 52394-11-15 02:24 G 20857893.44 20857893.60 20857893.77 0.0262 0.0119

Earth 52395-01-01 11:46 G 20857940.90 20857940.99 20857941.09 0.2664 0.1361

Moon 52395-01-01 12:29 G 20857940.93 20857941.02 20857941.11 0.2668 0.1417 *

Mars 52399-02-03 10:48 G 20859434.84 20859434.95 20859435.06 0.1796 0.0625

Jupiter 52400-03-03 15:50 G 20859828.97 20859829.16 20859829.34 0.0504 0.0047

Moon 52401-12-25 11:31 G 20860490.92 20860490.98 20860491.04 0.2669 0.2168

Earth 52401-12-25 12:14 G 20860490.94 20860491.01 20860491.08 0.2667 0.2011 *

Moon 52404-07-01 09:07 G 20861409.72 20861409.88 20861410.03 0.2663 0.0836

Earth 52404-07-01 10:34 G 20861409.79 20861409.94 20861410.10 0.2666 0.0615 *

Jupiter 52405-11-04 00:29 G 20861900.40 20861900.52 20861900.65 0.0522 0.0073

Earth 52408-01-04 05:17 G 20862691.68 20862691.72 20862691.75 0.2663 0.2527

Moon 52408-01-04 05:46 G 20862691.72 20862691.74 20862691.77 0.2663 0.2583 *

Mars 52408-06-25 20:10 G 20862865.33 20862865.34 20862865.36 0.1789 0.1771

Saturn 52409-03-18 07:12 G 20863130.72 20863130.80 20863130.88 0.0299 0.0230

Saturn 52409-06-14 19:41 G 20863219.19 20863219.32 20863219.45 0.0299 0.0048

Saturn 52409-09-11 08:10 G 20863307.72 20863307.84 20863307.95 0.0299 0.0133

Jupiter 52411-12-21 12:43 G 20864138.88 20864139.03 20864139.20 0.0504 0.0257

Uranus 52413-08-29 15:22 G 20864756.11 20864756.14 20864756.20 0.0139 0.0135

Uranus 52413-11-25 23:46 G 20864844.36 20864844.49 20864844.62 0.0139 0.0104

Uranus 52414-02-22 07:41 G 20864932.66 20864932.82 20864932.99 0.0139 0.0074

Uranus 52414-05-21 15:36 G 20865020.97 20865021.15 20865021.34 0.0138 0.0044

Uranus 52414-08-17 23:31 G 20865109.29 20865109.48 20865109.68 0.0138 0.0014

Uranus 52414-11-14 07:26 G 20865197.62 20865197.81 20865198.01 0.0138 0.0017

Moon 52414-12-28 05:31 G 20865241.62 20865241.73 20865241.83 0.2672 0.0789

Earth 52414-12-28 05:46 G 20865241.64 20865241.74 20865241.84 0.2666 0.0799 *

Uranus 52415-02-10 15:22 G 20865285.96 20865286.14 20865286.33 0.0138 0.0047

Uranus 52415-05-09 23:31 G 20865374.32 20865374.48 20865374.64 0.0138 0.0077

Uranus 52415-08-06 07:26 G 20865462.69 20865462.81 20865462.94 0.0138 0.0107

Uranus 52415-11-02 15:22 G 20865551.13 20865551.14 20865551.16 0.0138 0.0137

Moon 52417-07-04 17:02 G 20866161.10 20866161.21 20866161.32 0.2668 0.1849

Earth 52417-07-04 18:43 G 20866161.19 20866161.28 20866161.38 0.2668 0.2111 *

Jupiter 52417-08-23 05:02 G 20866210.59 20866210.71 20866210.84 0.0522 0.0084

Mars 52420-08-19 12:29 G 20867302.92 20867303.02 20867303.11 0.1723 0.1417

Jupiter 52423-10-09 10:05 G 20868448.85 20868448.92 20868448.99 0.0503 0.0462

Saturn 52424-01-05 03:22 G 20868536.48 20868536.64 20868536.81 0.0262 0.0124

Jupiter 52424-01-07 21:50 G 20868539.31 20868539.41 20868539.53 0.0506 0.0410

Saturn 52424-04-03 00:14 G 20868625.32 20868625.51 20868625.69 0.0262 0.0055

Venus 52424-05-23 08:53 G 20868675.78 20868675.87 20868675.96 0.3687 0.1695

Saturn 52424-06-30 21:07 G 20868714.30 20868714.38 20868714.46 0.0262 0.0235

Neptune 52426-11-27 02:24 G 20869593.57 20869593.60 20869593.65 0.0088 0.0086

Neptune 52427-02-23 06:00 G 20869681.66 20869681.75 20869681.86 0.0088 0.0075

Neptune 52427-05-22 09:22 G 20869769.78 20869769.89 20869770.05 0.0088 0.0064

Neptune 52427-08-18 13:26 G 20869857.91 20869858.06 20869858.22 0.0088 0.0052

Neptune 52427-11-14 17:02 G 20869946.04 20869946.21 20869946.39 0.0088 0.0041

Earth 52427-12-30 23:17 G 20869992.36 20869992.47 20869992.58 0.2665 0.0403

Moon 52427-12-30 23:17 G 20869992.37 20869992.47 20869992.58 0.2672 0.0374 *

Neptune 52428-02-10 20:38 G 20870034.18 20870034.36 20870034.55 0.0088 0.0029

Neptune 52428-05-09 00:29 G 20870122.33 20870122.52 20870122.71 0.0088 0.0018

Neptune 52428-08-05 04:05 G 20870210.47 20870210.67 20870210.87 0.0088 0.0007

Neptune 52428-11-01 07:41 G 20870298.63 20870298.82 20870299.02 0.0088 0.0005

Neptune 52429-01-28 11:17 G 20870386.78 20870386.97 20870387.17 0.0088 0.0016

Mars 52429-03-14 01:26 G 20870431.45 20870431.56 20870431.67 0.1803 0.0675

Neptune 52429-04-26 14:53 G 20870474.94 20870475.12 20870475.31 0.0088 0.0028

Jupiter 52429-06-11 09:07 G 20870520.77 20870520.88 20870520.99 0.0523 0.0249

Neptune 52429-07-23 18:29 G 20870563.10 20870563.27 20870563.46 0.0088 0.0039

Jupiter 52429-09-08 13:55 G 20870610.00 20870610.08 20870610.17 0.0520 0.0379

Neptune 52429-10-19 22:05 G 20870651.27 20870651.42 20870651.59 0.0088 0.0051

Venus 52429-12-06 23:46 G 20870699.39 20870699.49 20870699.59 0.3686 0.0604

Mars 52430-01-09 11:46 G 20870732.83 20870732.99 20870733.15 0.1730 0.0328

Neptune 52430-01-16 01:41 G 20870739.45 20870739.57 20870739.73 0.0089 0.0062

Neptune 52430-04-14 05:31 G 20870827.63 20870827.73 20870827.85 0.0089 0.0074

Neptune 52430-07-11 08:53 G 20870915.84 20870915.87 20870915.95 0.0089 0.0086

Venus 52435-06-22 14:38 G 20872723.05 20872723.11 20872723.18 0.3686 0.2895

Jupiter 52435-10-26 18:29 G 20872849.10 20872849.27 20872849.45 0.0505 0.0191

Venus 52438-03-28 17:46 G 20873733.09 20873733.24 20873733.39 0.3684 0.1413

Mars 52438-08-04 10:48 G 20873861.84 20873861.95 20873862.06 0.1796 0.0486

Saturn 52438-08-05 09:07 G 20873862.85 20873862.88 20873862.92 0.0299 0.0284

Saturn 52438-11-01 21:36 G 20873951.28 20873951.40 20873951.53 0.0299 0.0102

Saturn 52439-01-29 10:05 G 20874039.80 20874039.92 20874040.05 0.0299 0.0080

Saturn 52439-04-27 22:19 G 20874128.37 20874128.43 20874128.50 0.0299 0.0260

Earth 52441-01-01 16:34 G 20874743.11 20874743.19 20874743.28 0.2664 0.1578

Moon 52441-01-01 17:17 G 20874743.14 20874743.22 20874743.30 0.2667 0.1692 *

Jupiter 52441-03-30 13:26 G 20874830.98 20874831.06 20874831.14 0.0524 0.0408

Jupiter 52441-06-27 18:29 G 20874920.16 20874920.27 20874920.39 0.0521 0.0227

Jupiter 52447-08-14 14:10 G 20877158.90 20877159.09 20877159.27 0.0504 0.0043

Mars 52447-12-25 20:10 G 20877292.30 20877292.34 20877292.39 0.1789 0.1616

Moon 52447-12-26 16:19 G 20877293.10 20877293.18 20877293.26 0.2669 0.1811

Earth 52447-12-26 17:02 G 20877293.13 20877293.21 20877293.29 0.2667 0.1778 *

Moon 52450-07-02 15:36 G 20878211.99 20878212.15 20878212.31 0.2664 0.0262

Earth 52450-07-02 17:31 G 20878212.07 20878212.23 20878212.39 0.2666 0.0144 *

Jupiter 52453-04-15 23:02 G 20879230.34 20879230.46 20879230.59 0.0522 0.0074

Saturn 52453-05-24 03:50 G 20879268.52 20879268.66 20879268.81 0.0262 0.0164

Saturn 52453-08-21 00:29 G 20879357.33 20879357.52 20879357.71 0.0262 0.0016

Saturn 52453-11-17 21:22 G 20879446.27 20879446.39 20879446.52 0.0262 0.0195

Uranus 52457-02-21 06:29 G 20880637.73 20880637.77 20880637.81 0.0139 0.0132

Uranus 52457-05-20 09:36 G 20880725.83 20880725.90 20880725.99 0.0139 0.0111

Uranus 52457-08-16 12:58 G 20880813.95 20880814.04 20880814.14 0.0139 0.0090

Uranus 52457-11-12 16:19 G 20880902.07 20880902.18 20880902.29 0.0140 0.0070

Uranus 52458-02-08 19:26 G 20880990.19 20880990.31 20880990.44 0.0140 0.0049

Uranus 52458-05-07 22:48 G 20881078.32 20881078.45 20881078.58 0.0140 0.0028

Uranus 52458-08-04 02:10 G 20881166.46 20881166.59 20881166.72 0.0140 0.0008

Uranus 52458-10-31 05:17 G 20881254.59 20881254.72 20881254.85 0.0140 0.0014

Uranus 52459-01-27 08:38 G 20881342.73 20881342.86 20881342.99 0.0140 0.0034

Uranus 52459-04-25 11:46 G 20881430.88 20881430.99 20881431.12 0.0140 0.0055

Jupiter 52459-06-02 10:48 G 20881468.79 20881468.95 20881469.11 0.0503 0.0256

Uranus 52459-07-22 15:07 G 20881519.02 20881519.13 20881519.24 0.0140 0.0075

Uranus 52459-10-18 18:14 G 20881607.17 20881607.26 20881607.36 0.0140 0.0097

Uranus 52460-01-14 21:36 G 20881695.33 20881695.40 20881695.47 0.0140 0.0117

Mars 52460-02-18 12:58 G 20881730.00 20881730.04 20881730.09 0.1723 0.1651

Uranus 52460-04-12 00:58 G 20881783.52 20881783.54 20881783.56 0.0140 0.0138

Moon 52460-12-28 10:19 G 20882043.82 20882043.93 20882044.03 0.2673 0.0660

Earth 52460-12-28 10:34 G 20882043.83 20882043.94 20882044.05 0.2666 0.0568 *

Moon 52463-07-06 00:00 G 20882963.43 20882963.50 20882963.56 0.2669 0.2425

Earth 52463-07-06 01:41 G 20882963.54 20882963.57 20882963.60 0.2668 0.2601 *

Jupiter 52465-02-02 03:36 G 20883540.53 20883540.65 20883540.78 0.0523 0.0083

Saturn 52468-03-20 23:31 G 20884683.37 20884683.48 20884683.59 0.0299 0.0155

Saturn 52468-06-17 12:00 G 20884771.87 20884772.00 20884772.13 0.0299 0.0026

Mars 52468-09-12 01:26 G 20884858.45 20884858.56 20884858.66 0.1803 0.0825

Saturn 52468-09-14 00:14 G 20884860.42 20884860.51 20884860.61 0.0299 0.0206

Pluto 52468-10-16 05:31 G 20884892.62 20884892.73 20884892.85 0.0077 0.0059

Pluto 52469-01-12 07:55 G 20884980.67 20884980.83 20884980.99 0.0077 0.0038

Pluto 52469-04-10 10:19 G 20885068.75 20885068.93 20885069.11 0.0076 0.0017

Pluto 52469-07-07 12:43 G 20885156.84 20885157.03 20885157.21 0.0076 0.0004

Mars 52469-07-10 12:29 G 20885159.85 20885160.02 20885160.18 0.1730 0.0093

Pluto 52469-10-03 14:38 G 20885244.95 20885245.11 20885245.30 0.0076 0.0026

Pluto 52469-12-30 16:48 G 20885333.07 20885333.20 20885333.37 0.0076 0.0046

Pluto 52470-03-28 18:58 G 20885421.23 20885421.29 20885421.40 0.0076 0.0067

Jupiter 52471-03-21 07:41 G 20885778.76 20885778.82 20885778.89 0.0503 0.0466

Jupiter 52471-06-19 19:26 G 20885869.21 20885869.31 20885869.43 0.0506 0.0404

Earth 52473-12-31 04:05 G 20886794.56 20886794.67 20886794.77 0.2665 0.0627

Moon 52473-12-31 04:19 G 20886794.57 20886794.68 20886794.78 0.2671 0.0713 *

Venus 52475-06-14 15:07 G 20887325.08 20887325.13 20887325.18 0.3687 0.3152

Jupiter 52476-11-21 08:10 G 20887850.73 20887850.84 20887850.95 0.0523 0.0239

Jupiter 52477-02-18 12:58 G 20887939.96 20887940.04 20887940.12 0.0520 0.0389

Mars 52478-02-02 10:48 G 20888288.84 20888288.95 20888289.06 0.1796 0.0325

Venus 52480-12-28 06:00 G 20889348.66 20889348.75 20889348.85 0.3686 0.0851

Saturn 52482-10-11 01:55 G 20890000.49 20890000.58 20890000.68 0.0262 0.0225

Saturn 52483-01-07 22:34 G 20890089.26 20890089.44 20890089.63 0.0262 0.0047

Saturn 52483-04-06 19:26 G 20890178.15 20890178.31 20890178.48 0.0262 0.0134

Jupiter 52483-04-07 16:34 G 20890179.01 20890179.19 20890179.36 0.0505 0.0190

Moon 52483-06-30 15:07 G 20890263.06 20890263.13 20890263.21 0.2660 0.2331

Earth 52483-06-30 16:19 G 20890263.10 20890263.18 20890263.25 0.2665 0.2318 *

Venus 52486-07-13 21:07 G 20891372.29 20891372.38 20891372.47 0.3686 0.1449

Earth 52487-01-02 21:22 G 20891545.31 20891545.39 20891545.47 0.2664 0.1805

Moon 52487-01-02 22:05 G 20891545.34 20891545.42 20891545.49 0.2667 0.1849 *

Mars 52487-06-25 20:10 G 20891719.28 20891719.34 20891719.41 0.1789 0.1462

Jupiter 52488-09-09 12:00 G 20892160.93 20892161.00 20892161.08 0.0524 0.0407

Jupiter 52488-12-07 17:17 G 20892250.10 20892250.22 20892250.33 0.0521 0.0229

Moon 52493-12-26 21:07 G 20894095.30 20894095.38 20894095.47 0.2671 0.1655

Earth 52493-12-26 21:50 G 20894095.32 20894095.41 20894095.50 0.2667 0.1542 *

Jupiter 52495-01-24 13:12 G 20894488.86 20894489.05 20894489.23 0.0504 0.0029

Moon 52496-07-02 22:19 G 20895014.27 20895014.43 20895014.60 0.2664 0.0107

Earth 52496-07-03 00:14 G 20895014.35 20895014.51 20895014.66 0.2667 0.0357 *

Saturn 52497-08-08 01:41 G 20895415.48 20895415.57 20895415.67 0.0299 0.0206

Uranus 52497-09-18 23:02 G 20895457.39 20895457.46 20895457.55 0.0139 0.0126

Saturn 52497-11-04 14:10 G 20895503.96 20895504.09 20895504.22 0.0299 0.0025

Uranus 52497-12-16 06:58 G 20895545.66 20895545.79 20895545.94 0.0139 0.0096

Saturn 52498-02-01 02:38 G 20895592.50 20895592.61 20895592.72 0.0299 0.0156

Uranus 52498-03-14 14:53 G 20895633.96 20895634.12 20895634.31 0.0139 0.0066

Uranus 52498-06-10 23:02 G 20895722.28 20895722.46 20895722.65 0.0138 0.0035

Uranus 52498-09-07 07:12 G 20895810.60 20895810.80 20895810.99 0.0138 0.0006

Uranus 52498-12-04 14:53 G 20895898.93 20895899.12 20895899.32 0.0138 0.0026

Uranus 52499-03-02 22:48 G 20895987.28 20895987.45 20895987.64 0.0138 0.0056

Uranus 52499-05-30 06:58 G 20896075.64 20896075.79 20896075.94 0.0138 0.0086

Uranus 52499-08-26 14:24 G 20896164.02 20896164.10 20896164.23 0.0138 0.0116

Jupiter 52500-09-26 21:36 G 20896560.28 20896560.40 20896560.53 0.0522 0.0072

Jupiter 52506-11-13 08:53 G 20898798.71 20898798.87 20898799.03 0.0503 0.0255

Moon 52506-12-30 15:07 G 20898846.02 20898846.13 20898846.24 0.2673 0.0308

Earth 52506-12-30 15:22 G 20898846.03 20898846.14 20898846.25 0.2666 0.0337 *

Neptune 52507-03-29 11:17 G 20898934.97 20898934.97 20898934.99 0.0089 0.0089

Neptune 52507-06-25 12:43 G 20899022.98 20899023.03 20899023.09 0.0089 0.0081

Neptune 52507-09-21 13:55 G 20899111.02 20899111.08 20899111.16 0.0089 0.0073

Neptune 52507-12-18 15:22 G 20899199.06 20899199.14 20899199.23 0.0089 0.0065

Mars 52508-03-14 01:26 G 20899285.46 20899285.56 20899285.65 0.1803 0.0973

Neptune 52508-03-15 16:48 G 20899287.10 20899287.20 20899287.30 0.0089 0.0057

Neptune 52508-06-11 17:46 G 20899375.14 20899375.24 20899375.36 0.0089 0.0050

Neptune 52508-09-07 19:12 G 20899463.19 20899463.30 20899463.42 0.0089 0.0042

Neptune 52508-12-04 20:38 G 20899551.24 20899551.36 20899551.48 0.0089 0.0034

Mars 52509-01-09 13:12 G 20899586.89 20899587.05 20899587.21 0.1730 0.0155

Neptune 52509-03-02 21:50 G 20899639.29 20899639.41 20899639.54 0.0089 0.0026

Neptune 52509-05-29 23:17 G 20899727.34 20899727.47 20899727.60 0.0089 0.0018

Neptune 52509-08-26 00:29 G 20899815.39 20899815.52 20899815.65 0.0089 0.0011

Neptune 52509-11-22 01:55 G 20899903.45 20899903.58 20899903.71 0.0089 0.0003

Neptune 52510-02-18 03:07 G 20899991.50 20899991.63 20899991.76 0.0089 0.0005

Neptune 52510-05-17 04:19 G 20900079.55 20900079.68 20900079.82 0.0089 0.0013

Neptune 52510-08-13 05:46 G 20900167.61 20900167.74 20900167.87 0.0089 0.0021

Neptune 52510-11-09 06:58 G 20900255.67 20900255.79 20900255.92 0.0089 0.0028

Neptune 52511-02-05 08:10 G 20900343.73 20900343.84 20900343.97 0.0089 0.0036

Neptune 52511-05-04 09:22 G 20900431.79 20900431.89 20900432.01 0.0089 0.0044

Neptune 52511-07-31 10:48 G 20900519.85 20900519.95 20900520.06 0.0089 0.0052

Neptune 52511-10-27 12:00 G 20900607.91 20900608.00 20900608.10 0.0089 0.0060

Neptune 52512-01-23 13:26 G 20900695.98 20900696.06 20900696.14 0.0089 0.0067

Saturn 52512-02-29 02:53 G 20900732.61 20900732.62 20900732.63 0.0263 0.0262

Neptune 52512-04-20 14:24 G 20900784.04 20900784.10 20900784.18 0.0089 0.0075

Saturn 52512-05-27 23:31 G 20900821.30 20900821.48 20900821.66 0.0262 0.0083

Jupiter 52512-07-16 01:55 G 20900870.46 20900870.58 20900870.71 0.0523 0.0089

Neptune 52512-07-17 15:36 G 20900872.12 20900872.15 20900872.21 0.0089 0.0083

Saturn 52512-08-24 20:10 G 20900910.17 20900910.34 20900910.52 0.0262 0.0097

Mars 52517-08-04 10:48 G 20902715.83 20902715.95 20902716.07 0.1796 0.0168

Mars 52518-06-01 12:29 G 20903016.96 20903017.02 20903017.08 0.1737 0.1606

Jupiter 52518-09-01 05:31 G 20903108.67 20903108.73 20903108.80 0.0502 0.0467

Jupiter 52518-11-30 17:17 G 20903199.11 20903199.22 20903199.33 0.0505 0.0399

Earth 52520-01-02 08:53 G 20903596.76 20903596.87 20903596.97 0.2665 0.0858

Moon 52520-01-02 09:07 G 20903596.78 20903596.88 20903596.99 0.2670 0.0854 *

Jupiter 52524-05-04 06:29 G 20905180.66 20905180.77 20905180.88 0.0524 0.0245

Jupiter 52524-08-01 11:17 G 20905269.89 20905269.97 20905270.06 0.0521 0.0386

Mars 52526-12-25 20:10 G 20906146.26 20906146.34 20906146.42 0.1789 0.1307

Moon 52526-12-26 08:10 G 20906146.83 20906146.84 20906146.86 0.2667 0.2608

Earth 52526-12-26 08:53 G 20906146.84 20906146.87 20906146.91 0.2668 0.2530 *

Saturn 52526-12-27 04:05 G 20906147.61 20906147.67 20906147.74 0.0299 0.0251

Saturn 52527-03-25 16:48 G 20906236.07 20906236.20 20906236.32 0.0299 0.0070

Saturn 52527-06-22 05:02 G 20906324.59 20906324.71 20906324.83 0.0299 0.0111

Saturn 52527-09-18 17:17 G 20906413.19 20906413.22 20906413.25 0.0299 0.0289

Moon 52529-07-01 21:36 G 20907065.31 20907065.40 20907065.50 0.2661 0.2085

Earth 52529-07-01 23:02 G 20907065.35 20907065.46 20907065.57 0.2665 0.1835 *

Jupiter 52530-09-18 13:41 G 20907508.90 20907509.07 20907509.25 0.0505 0.0180

Venus 52532-01-20 12:14 G 20907997.94 20907998.01 20907998.09 0.3687 0.2303

Earth 52533-01-04 02:10 G 20908347.52 20908347.59 20908347.66 0.2664 0.2026

Moon 52533-01-04 02:53 G 20908347.55 20908347.62 20908347.68 0.2666 0.2163 *

Jupiter 52536-02-21 10:48 G 20909490.87 20909490.95 20909491.03 0.0524 0.0403

Jupiter 52536-05-20 15:50 G 20909580.05 20909580.16 20909580.28 0.0521 0.0233

Venus 52537-08-05 03:22 G 20910021.54 20910021.64 20910021.74 0.3686 0.0010

Moon 52539-12-29 02:10 G 20910897.50 20910897.59 20910897.68 0.2672 0.1365

Earth 52539-12-29 02:38 G 20910897.51 20910897.61 20910897.70 0.2667 0.1310 *

Uranus 52541-03-14 13:12 G 20911339.01 20911339.05 20911339.11 0.0139 0.0128

Uranus 52541-06-10 16:34 G 20911427.11 20911427.19 20911427.28 0.0139 0.0108

Uranus 52541-09-06 19:55 G 20911515.23 20911515.33 20911515.44 0.0139 0.0087

Saturn 52541-10-14 22:05 G 20911553.26 20911553.42 20911553.58 0.0262 0.0140

Uranus 52541-12-03 23:02 G 20911603.35 20911603.46 20911603.58 0.0140 0.0067

Saturn 52542-01-11 18:43 G 20911642.10 20911642.28 20911642.47 0.0262 0.0040

Uranus 52542-03-02 02:24 G 20911691.48 20911691.60 20911691.73 0.0140 0.0046

Saturn 52542-04-10 15:36 G 20911731.05 20911731.15 20911731.26 0.0262 0.0220

Uranus 52542-05-29 05:46 G 20911779.61 20911779.74 20911779.87 0.0140 0.0025

Moon 52542-07-05 05:17 G 20911816.56 20911816.72 20911816.87 0.2665 0.0742

Earth 52542-07-05 06:58 G 20911816.64 20911816.79 20911816.94 0.2667 0.0837 *

Jupiter 52542-07-07 10:34 G 20911818.76 20911818.94 20911819.13 0.0504 0.0034

Uranus 52542-08-25 09:07 G 20911867.75 20911867.88 20911868.01 0.0140 0.0005

Uranus 52542-11-21 12:14 G 20911955.88 20911956.01 20911956.14 0.0140 0.0017

Uranus 52543-02-17 15:36 G 20912044.02 20912044.15 20912044.27 0.0140 0.0037

Venus 52543-02-18 18:14 G 20912045.19 20912045.26 20912045.34 0.3686 0.2301

Uranus 52543-05-16 18:43 G 20912132.17 20912132.28 20912132.40 0.0140 0.0058

Uranus 52543-08-12 21:50 G 20912220.31 20912220.41 20912220.53 0.0140 0.0080

Uranus 52543-11-09 01:26 G 20912308.47 20912308.56 20912308.65 0.0140 0.0100

Uranus 52544-02-05 04:34 G 20912396.63 20912396.69 20912396.76 0.0140 0.0121

Venus 52545-11-24 11:17 G 20913054.83 20913054.97 20913055.11 0.3684 0.1830

Mars 52547-09-13 01:12 G 20913712.46 20913712.55 20913712.64 0.1803 0.1127

Jupiter 52548-03-08 20:10 G 20913890.21 20913890.34 20913890.46 0.0522 0.0070

Mars 52548-07-10 13:41 G 20914013.90 20914014.07 20914014.23 0.1730 0.0367

Moon 52552-12-30 20:10 G 20915648.23 20915648.34 20915648.44 0.2672 0.0198

Earth 52552-12-30 20:10 G 20915648.23 20915648.34 20915648.45 0.2666 0.0108 *

Jupiter 52554-04-25 07:12 G 20916128.64 20916128.80 20916128.97 0.0504 0.0248

Saturn 52556-08-11 18:58 G 20916968.17 20916968.29 20916968.41 0.0299 0.0118

Saturn 52556-11-08 07:26 G 20917056.68 20917056.81 20917056.94 0.0299 0.0063

Mars 52557-02-02 10:48 G 20917142.83 20917142.95 20917143.06 0.1796 0.0057

Saturn 52557-02-04 19:41 G 20917145.25 20917145.32 20917145.40 0.0299 0.0243

Mars 52557-11-30 13:26 G 20917443.96 20917444.06 20917444.16 0.1737 0.1357

Jupiter 52559-12-27 00:29 G 20918200.39 20918200.52 20918200.64 0.0523 0.0092

Earth 52566-01-02 13:41 G 20920398.97 20920399.07 20920399.16 0.2665 0.1086

Moon 52566-01-02 14:10 G 20920398.99 20920399.09 20920399.18 0.2670 0.1209 *

Jupiter 52566-02-11 03:22 G 20920438.58 20920438.64 20920438.71 0.0502 0.0470

Jupiter 52566-05-12 14:53 G 20920529.01 20920529.12 20920529.24 0.0505 0.0396

Mars 52566-06-25 20:10 G 20920573.25 20920573.34 20920573.43 0.1789 0.1157

Saturn 52571-03-03 23:02 G 20922285.33 20922285.46 20922285.61 0.0263 0.0175

Saturn 52571-05-31 19:55 G 20922374.14 20922374.33 20922374.52 0.0263 0.0006

Saturn 52571-08-28 16:34 G 20922463.07 20922463.19 20922463.33 0.0263 0.0187

Jupiter 52571-10-15 04:34 G 20922510.58 20922510.69 20922510.80 0.0524 0.0255

Jupiter 52572-01-12 09:36 G 20922599.81 20922599.90 20922599.98 0.0521 0.0377

Moon 52572-12-26 13:12 G 20922949.00 20922949.05 20922949.09 0.2668 0.2414

Earth 52572-12-26 13:41 G 20922949.02 20922949.07 20922949.13 0.2668 0.2298 *

Moon 52575-07-03 04:19 G 20923867.54 20923867.68 20923867.81 0.2661 0.1430

Earth 52575-07-03 05:46 G 20923867.60 20923867.74 20923867.87 0.2665 0.1367 *

Jupiter 52578-02-28 11:17 G 20924838.79 20924838.97 20924839.14 0.0504 0.0174

Earth 52579-01-05 06:58 G 20925149.73 20925149.79 20925149.84 0.2664 0.2252

Moon 52579-01-05 07:41 G 20925149.76 20925149.82 20925149.87 0.2664 0.2279 *

Uranus 52581-10-10 06:29 G 20926158.68 20926158.77 20926158.88 0.0139 0.0118

Uranus 52582-01-06 14:24 G 20926246.95 20926247.10 20926247.25 0.0139 0.0088

Uranus 52582-04-04 22:19 G 20926335.26 20926335.43 20926335.61 0.0139 0.0058

Uranus 52582-07-02 06:14 G 20926423.57 20926423.76 20926423.96 0.0138 0.0028

Uranus 52582-09-28 14:24 G 20926511.90 20926512.10 20926512.29 0.0138 0.0004

Uranus 52582-12-25 22:05 G 20926600.24 20926600.42 20926600.62 0.0138 0.0033

Uranus 52583-03-24 06:00 G 20926688.58 20926688.75 20926688.93 0.0138 0.0063

Uranus 52583-06-20 13:55 G 20926776.94 20926777.08 20926777.23 0.0138 0.0093

Jupiter 52583-08-03 08:53 G 20926820.80 20926820.87 20926820.95 0.0525 0.0414

Uranus 52583-09-16 21:50 G 20926865.33 20926865.41 20926865.51 0.0138 0.0123

Jupiter 52583-10-31 14:10 G 20926909.97 20926910.09 20926910.20 0.0522 0.0223

Moon 52585-12-29 06:58 G 20927699.69 20927699.79 20927699.89 0.2673 0.1133

Earth 52585-12-29 07:26 G 20927699.71 20927699.81 20927699.91 0.2667 0.1078 *

Saturn 52585-12-29 21:50 G 20927700.31 20927700.41 20927700.53 0.0299 0.0157

Saturn 52586-03-28 10:19 G 20927788.80 20927788.93 20927789.06 0.0299 0.0026

Saturn 52586-06-24 22:48 G 20927877.35 20927877.45 20927877.54 0.0299 0.0204

Mars 52587-03-14 01:26 G 20928139.48 20928139.56 20928139.64 0.1803 0.1283

Mars 52588-01-09 14:24 G 20928440.94 20928441.10 20928441.25 0.1730 0.0610

Moon 52588-07-05 12:00 G 20928618.86 20928619.00 20928619.15 0.2667 0.1028

Earth 52588-07-05 13:41 G 20928618.94 20928619.07 20928619.21 0.2667 0.1331 *

Venus 52588-08-26 09:36 G 20928670.81 20928670.90 20928670.99 0.3686 0.1441

Jupiter 52589-12-17 07:41 G 20929148.63 20929148.82 20929149.00 0.0504 0.0049

Neptune 52591-08-25 00:58 G 20929764.48 20929764.54 20929764.63 0.0088 0.0080

Neptune 52591-11-21 04:19 G 20929852.58 20929852.68 20929852.83 0.0088 0.0070

Neptune 52592-02-17 08:24 G 20929940.71 20929940.85 20929941.00 0.0088 0.0058

Neptune 52592-05-15 12:00 G 20930028.84 20930029.00 20930029.17 0.0088 0.0047

Neptune 52592-08-11 15:36 G 20930116.98 20930117.15 20930117.34 0.0088 0.0035

Neptune 52592-11-07 19:26 G 20930205.12 20930205.31 20930205.50 0.0088 0.0024

Neptune 52593-02-03 23:02 G 20930293.27 20930293.46 20930293.66 0.0088 0.0012

Neptune 52593-05-03 02:38 G 20930381.42 20930381.61 20930381.81 0.0088 0.0002

Neptune 52593-07-30 06:14 G 20930469.57 20930469.76 20930469.96 0.0088 0.0011

Neptune 52593-10-26 10:05 G 20930557.73 20930557.92 20930558.11 0.0088 0.0022

Neptune 52594-01-22 13:26 G 20930645.89 20930646.06 20930646.25 0.0088 0.0034

Venus 52594-03-12 00:43 G 20930694.43 20930694.53 20930694.62 0.3686 0.0868

Neptune 52594-04-20 17:17 G 20930734.06 20930734.22 20930734.39 0.0088 0.0045

Neptune 52594-07-17 20:38 G 20930822.23 20930822.36 20930822.53 0.0088 0.0057

Neptune 52594-10-14 00:29 G 20930910.41 20930910.52 20930910.66 0.0089 0.0068

Neptune 52595-01-10 03:50 G 20930998.60 20930998.66 20930998.77 0.0089 0.0080

Jupiter 52595-08-19 18:43 G 20931220.15 20931220.28 20931220.40 0.0522 0.0071

Mars 52596-08-03 10:48 G 20931569.83 20931569.95 20931570.06 0.1796 0.0143

Mars 52597-05-31 13:41 G 20931870.95 20931871.07 20931871.19 0.1737 0.1143

Moon 52599-01-01 00:58 G 20932450.43 20932450.54 20932450.65 0.2672 0.0158

Earth 52599-01-01 00:58 G 20932450.43 20932450.54 20932450.65 0.2666 0.0127 *

Venus 52599-09-25 15:36 G 20932718.10 20932718.15 20932718.20 0.3686 0.3147

Saturn 52600-07-21 22:19 G 20933017.34 20933017.43 20933017.52 0.0262 0.0227

Saturn 52600-10-18 18:58 G 20933106.10 20933106.29 20933106.48 0.0262 0.0048

Saturn 52601-01-15 15:50 G 20933194.99 20933195.16 20933195.32 0.0262 0.0133

Jupiter 52601-10-06 04:34 G 20933458.53 20933458.69 20933458.85 0.0503 0.0259

Venus 52602-07-02 14:10 G 20933727.94 20933728.09 20933728.24 0.3684 0.1220

Mars 52605-12-25 20:10 G 20935000.24 20935000.34 20935000.44 0.1789 0.1001

Jupiter 52607-06-08 22:34 G 20935530.32 20935530.44 20935530.57 0.0523 0.0098

Earth 52612-01-04 18:14 G 20937201.17 20937201.26 20937201.36 0.2664 0.1308

Moon 52612-01-04 18:43 G 20937201.19 20937201.28 20937201.38 0.2669 0.1328 *

Jupiter 52613-07-25 01:12 G 20937768.50 20937768.55 20937768.62 0.0503 0.0470

Jupiter 52613-10-23 12:58 G 20937858.93 20937859.04 20937859.16 0.0505 0.0398

Saturn 52615-05-20 00:29 G 20938432.42 20938432.52 20938432.61 0.0299 0.0203

Saturn 52615-08-16 12:58 G 20938520.91 20938521.04 20938521.17 0.0299 0.0022

Saturn 52615-11-13 01:12 G 20938609.44 20938609.55 20938609.66 0.0299 0.0158

Moon 52618-12-28 18:00 G 20939751.18 20939751.25 20939751.31 0.2670 0.2097

Earth 52618-12-28 18:43 G 20939751.21 20939751.28 20939751.34 0.2668 0.2064 *

Jupiter 52619-03-28 02:53 G 20939840.51 20939840.62 20939840.73 0.0524 0.0259

Jupiter 52619-06-25 07:55 G 20939929.74 20939929.83 20939929.91 0.0521 0.0372

Moon 52621-07-04 11:02 G 20940669.81 20940669.96 20940670.10 0.2662 0.1128

Earth 52621-07-04 12:29 G 20940669.87 20940670.02 20940670.17 0.2666 0.0886 *

Earth 52625-01-06 11:46 G 20941951.95 20941951.99 20941952.03 0.2663 0.2474

Moon 52625-01-06 12:29 G 20941952.00 20941952.02 20941952.03 0.2662 0.2617 *

Uranus 52625-04-04 20:10 G 20942040.29 20942040.34 20942040.40 0.0139 0.0125

Uranus 52625-07-01 23:31 G 20942128.39 20942128.48 20942128.57 0.0139 0.0105

Jupiter 52625-08-11 08:53 G 20942168.69 20942168.87 20942169.05 0.0504 0.0168

Uranus 52625-09-28 02:38 G 20942216.51 20942216.61 20942216.72 0.0139 0.0084

Uranus 52625-12-25 06:00 G 20942304.64 20942304.75 20942304.87 0.0140 0.0063

Uranus 52626-03-23 09:22 G 20942392.76 20942392.89 20942393.01 0.0140 0.0043

Uranus 52626-06-19 12:29 G 20942480.90 20942481.02 20942481.15 0.0140 0.0023

Mars 52626-09-13 01:12 G 20942566.48 20942566.55 20942566.62 0.1803 0.1422

Uranus 52626-09-15 15:50 G 20942569.03 20942569.16 20942569.29 0.0140 0.0002

Uranus 52626-12-12 19:12 G 20942657.17 20942657.30 20942657.43 0.0140 0.0020

Uranus 52627-03-10 22:19 G 20942745.31 20942745.43 20942745.56 0.0140 0.0040

Uranus 52627-06-07 01:41 G 20942833.45 20942833.57 20942833.69 0.0140 0.0061

Mars 52627-07-11 14:53 G 20942867.98 20942868.12 20942868.27 0.1730 0.0849

Uranus 52627-09-03 04:48 G 20942921.60 20942921.70 20942921.81 0.0140 0.0082

Pluto 52627-11-24 12:00 G 20943003.99 20943004.00 20943004.05 0.0067 0.0066

Uranus 52627-11-30 08:10 G 20943009.75 20943009.84 20943009.93 0.0140 0.0103

Pluto 52628-02-20 12:43 G 20943091.96 20943092.03 20943092.12 0.0068 0.0055

Uranus 52628-02-26 11:17 G 20943097.92 20943097.97 20943098.04 0.0140 0.0124

Pluto 52628-05-18 13:26 G 20943179.96 20943180.06 20943180.17 0.0068 0.0044

Pluto 52628-08-14 13:55 G 20943267.97 20943268.08 20943268.21 0.0068 0.0034

Pluto 52628-11-10 14:24 G 20943355.98 20943356.10 20943356.24 0.0068 0.0023

Pluto 52629-02-06 15:07 G 20943444.00 20943444.13 20943444.27 0.0068 0.0012

Pluto 52629-05-05 15:50 G 20943532.02 20943532.16 20943532.30 0.0068 0.0001

Pluto 52629-08-01 16:19 G 20943620.05 20943620.18 20943620.32 0.0068 0.0010

Pluto 52629-10-28 16:48 G 20943708.08 20943708.20 20943708.34 0.0068 0.0022

Saturn 52629-12-08 23:31 G 20943749.46 20943749.48 20943749.51 0.0263 0.0260

Pluto 52630-01-24 17:31 G 20943796.11 20943796.23 20943796.35 0.0068 0.0032

Saturn 52630-03-07 20:24 G 20943838.17 20943838.35 20943838.53 0.0263 0.0081

Pluto 52630-04-22 18:00 G 20943884.15 20943884.25 20943884.36 0.0068 0.0043

Saturn 52630-06-04 17:02 G 20943927.04 20943927.21 20943927.39 0.0263 0.0100

Pluto 52630-07-19 18:29 G 20943972.20 20943972.27 20943972.37 0.0069 0.0055

Pluto 52630-10-15 19:12 G 20944060.27 20944060.30 20944060.35 0.0069 0.0066

Jupiter 52631-01-14 06:43 G 20944150.71 20944150.78 20944150.86 0.0525 0.0429

Jupiter 52631-04-13 12:00 G 20944239.89 20944240.00 20944240.12 0.0522 0.0211

Moon 52631-12-31 11:46 G 20944501.89 20944501.99 20944502.09 0.2672 0.0923

Earth 52631-12-31 12:14 G 20944501.91 20944502.01 20944502.11 0.2667 0.0848 *

Moon 52634-07-07 18:43 G 20945421.16 20945421.28 20945421.40 0.2669 0.1721

Earth 52634-07-07 20:24 G 20945421.24 20945421.35 20945421.47 0.2667 0.1808 *

Mars 52636-02-03 10:48 G 20945996.83 20945996.95 20945997.06 0.1796 0.0292

Mars 52636-11-30 14:24 G 20946297.96 20946298.10 20946298.24 0.1737 0.0907

Jupiter 52637-05-30 05:02 G 20946478.53 20946478.71 20946478.90 0.0503 0.0055

Venus 52639-09-18 15:50 G 20947320.10 20947320.16 20947320.22 0.3687 0.2903

Jupiter 52643-01-30 16:34 G 20948550.06 20948550.19 20948550.32 0.0523 0.0055

Saturn 52644-10-06 03:36 G 20949164.58 20949164.65 20949164.74 0.0298 0.0237

Earth 52645-01-02 05:46 G 20949252.63 20949252.74 20949252.85 0.2665 0.0353

Moon 52645-01-02 06:00 G 20949252.64 20949252.75 20949252.85 0.2672 0.0386 *

Saturn 52645-01-02 16:19 G 20949253.05 20949253.18 20949253.31 0.0299 0.0055

Saturn 52645-04-01 04:34 G 20949341.57 20949341.69 20949341.81 0.0299 0.0125

Venus 52645-04-03 06:58 G 20949343.69 20949343.79 20949343.89 0.3686 0.0596

Mars 52645-06-25 20:10 G 20949427.24 20949427.34 20949427.44 0.1789 0.0855

Jupiter 52649-03-18 01:26 G 20950788.40 20950788.56 20950788.71 0.0503 0.0276

Venus 52650-10-17 21:50 G 20951367.32 20951367.41 20951367.50 0.3686 0.1697

Jupiter 52654-11-18 21:07 G 20952860.26 20952860.38 20952860.50 0.0523 0.0100

Earth 52658-01-04 23:02 G 20954003.38 20954003.46 20954003.55 0.2664 0.1533

Moon 52658-01-04 23:46 G 20954003.40 20954003.49 20954003.57 0.2668 0.1644 *

Saturn 52659-07-25 19:41 G 20954570.16 20954570.32 20954570.49 0.0262 0.0130

Saturn 52659-10-22 16:34 G 20954659.00 20954659.19 20954659.38 0.0262 0.0050

Saturn 52660-01-19 13:26 G 20954747.97 20954748.06 20954748.15 0.0262 0.0231

Jupiter 52661-01-03 22:19 G 20955098.38 20955098.43 20955098.48 0.0503 0.0485

Jupiter 52661-04-04 09:50 G 20955188.79 20955188.91 20955189.03 0.0505 0.0382

Moon 52664-12-28 22:48 G 20956553.38 20956553.45 20956553.52 0.2671 0.1972

Earth 52664-12-28 23:31 G 20956553.40 20956553.48 20956553.56 0.2668 0.1828 *

Uranus 52665-10-31 13:12 G 20956859.94 20956860.05 20956860.17 0.0139 0.0112

Uranus 52666-01-27 21:07 G 20956948.23 20956948.38 20956948.54 0.0139 0.0082

Mars 52666-03-14 01:12 G 20956993.50 20956993.55 20956993.61 0.1803 0.1582

Uranus 52666-04-26 05:02 G 20957036.53 20957036.71 20957036.90 0.0139 0.0052

Uranus 52666-07-23 12:58 G 20957124.85 20957125.04 20957125.24 0.0138 0.0022

Jupiter 52666-09-07 01:12 G 20957170.44 20957170.55 20957170.66 0.0524 0.0267

Uranus 52666-10-19 20:53 G 20957213.18 20957213.37 20957213.57 0.0138 0.0010

Jupiter 52666-12-05 06:00 G 20957259.66 20957259.75 20957259.84 0.0521 0.0365

Mars 52667-01-09 15:22 G 20957295.02 20957295.14 20957295.27 0.1730 0.1066

Uranus 52667-01-16 04:48 G 20957301.52 20957301.70 20957301.89 0.0138 0.0039

Uranus 52667-04-14 12:43 G 20957389.87 20957390.03 20957390.21 0.0138 0.0069

Moon 52667-07-05 17:31 G 20957472.08 20957472.23 20957472.39 0.2663 0.0548

Earth 52667-07-05 19:12 G 20957472.14 20957472.30 20957472.46 0.2666 0.0413 *

Uranus 52667-07-11 20:38 G 20957478.23 20957478.36 20957478.50 0.0138 0.0099

Uranus 52667-10-08 04:34 G 20957566.63 20957566.69 20957566.77 0.0138 0.0129

Neptune 52671-12-25 11:02 G 20959105.94 20959105.96 20959106.01 0.0089 0.0085

Neptune 52672-03-22 12:29 G 20959193.97 20959194.02 20959194.09 0.0089 0.0077

Neptune 52672-06-18 13:55 G 20959282.00 20959282.08 20959282.17 0.0089 0.0069

Neptune 52672-09-14 15:22 G 20959370.05 20959370.14 20959370.23 0.0089 0.0061

Neptune 52672-12-11 16:19 G 20959458.09 20959458.18 20959458.30 0.0089 0.0054

Jupiter 52673-01-21 06:29 G 20959498.59 20959498.77 20959498.94 0.0505 0.0164

Neptune 52673-03-09 17:46 G 20959546.14 20959546.24 20959546.36 0.0089 0.0046

Neptune 52673-06-05 19:12 G 20959634.18 20959634.30 20959634.42 0.0089 0.0038

Neptune 52673-09-01 20:24 G 20959722.23 20959722.35 20959722.48 0.0089 0.0030

Neptune 52673-11-28 21:50 G 20959810.28 20959810.41 20959810.54 0.0089 0.0022

Saturn 52674-02-23 06:00 G 20959896.72 20959896.75 20959896.79 0.0299 0.0285

Neptune 52674-02-24 23:02 G 20959898.33 20959898.46 20959898.59 0.0089 0.0015

Saturn 52674-05-22 18:29 G 20959985.15 20959985.27 20959985.40 0.0299 0.0104

Neptune 52674-05-24 00:29 G 20959986.39 20959986.52 20959986.65 0.0089 0.0007

Saturn 52674-08-19 06:58 G 20960073.67 20960073.79 20960073.92 0.0299 0.0077

Neptune 52674-08-20 01:41 G 20960074.44 20960074.57 20960074.70 0.0089 0.0002

Saturn 52674-11-15 19:12 G 20960162.24 20960162.30 20960162.37 0.0299 0.0257

Neptune 52674-11-16 03:07 G 20960162.50 20960162.63 20960162.76 0.0089 0.0009

Neptune 52675-02-12 04:19 G 20960250.55 20960250.68 20960250.81 0.0089 0.0017

Neptune 52675-05-11 05:31 G 20960338.61 20960338.73 20960338.86 0.0089 0.0025

Mars 52675-08-04 10:34 G 20960423.83 20960423.94 20960424.05 0.1796 0.0425

Neptune 52675-08-07 06:58 G 20960426.66 20960426.79 20960426.91 0.0089 0.0032

Neptune 52675-11-03 08:10 G 20960514.72 20960514.84 20960514.96 0.0089 0.0040

Neptune 52676-01-30 09:22 G 20960602.78 20960602.89 20960603.01 0.0089 0.0048

Neptune 52676-04-27 10:34 G 20960690.85 20960690.94 20960691.05 0.0089 0.0056

Mars 52676-05-31 15:07 G 20960724.98 20960725.13 20960725.28 0.1737 0.0669

Neptune 52676-07-24 12:00 G 20960778.91 20960779.00 20960779.09 0.0089 0.0063

Neptune 52676-10-20 13:12 G 20960866.98 20960867.05 20960867.13 0.0089 0.0071

Neptune 52677-01-16 14:24 G 20960955.05 20960955.10 20960955.17 0.0089 0.0079

Neptune 52677-04-14 15:50 G 20961043.13 20961043.16 20961043.19 0.0089 0.0086

Moon 52677-12-31 16:48 G 20961304.09 20961304.20 20961304.30 0.2672 0.0628

Earth 52677-12-31 17:02 G 20961304.10 20961304.21 20961304.32 0.2666 0.0617 *

Jupiter 52678-06-26 05:02 G 20961480.65 20961480.71 20961480.79 0.0524 0.0433

Jupiter 52678-09-23 10:19 G 20961569.82 20961569.93 20961570.05 0.0522 0.0206

Moon 52680-07-08 01:26 G 20962223.46 20962223.56 20962223.67 0.2669 0.2000

Earth 52680-07-08 03:22 G 20962223.56 20962223.64 20962223.72 0.2667 0.2302 *

Jupiter 52684-11-09 02:38 G 20963808.43 20963808.61 20963808.80 0.0503 0.0060

Mars 52684-12-24 20:10 G 20963854.23 20963854.34 20963854.45 0.1789 0.0696

Saturn 52688-12-11 21:07 G 20965302.24 20965302.38 20965302.53 0.0263 0.0163

Saturn 52689-03-10 18:00 G 20965391.06 20965391.25 20965391.44 0.0263 0.0017

Saturn 52689-06-07 14:38 G 20965479.99 20965480.11 20965480.24 0.0263 0.0199

Jupiter 52690-07-12 14:24 G 20965879.97 20965880.10 20965880.23 0.0523 0.0041

Earth 52691-01-03 10:34 G 20966054.83 20966054.94 20966055.04 0.2665 0.0583

Moon 52691-01-03 10:48 G 20966054.84 20966054.95 20966055.05 0.2672 0.0600 *

Venus 52696-04-24 13:12 G 20967992.97 20967993.05 20967993.13 0.3687 0.2050

Jupiter 52696-08-27 23:02 G 20968118.31 20968118.46 20968118.61 0.0503 0.0278

Earth 52700-07-03 18:14 G 20969523.22 20969523.26 20969523.30 0.2665 0.2557

Venus 52701-11-09 04:05 G 20970016.57 20970016.67 20970016.77 0.3686 0.0248

Jupiter 52702-05-01 18:58 G 20970190.16 20970190.29 20970190.41 0.0523 0.0117

Jupiter 52702-07-29 23:46 G 20970279.47 20970279.49 20970279.51 0.0521 0.0510

Saturn 52703-10-10 22:05 G 20970717.31 20970717.42 20970717.54 0.0299 0.0134

Earth 52704-01-07 03:50 G 20970805.58 20970805.66 20970805.74 0.2664 0.1755

Moon 52704-01-07 04:34 G 20970805.61 20970805.69 20970805.77 0.2666 0.1825 *

Saturn 52704-01-07 10:34 G 20970805.81 20970805.94 20970806.07 0.0299 0.0047

Saturn 52704-04-04 22:48 G 20970894.37 20970894.45 20970894.54 0.0299 0.0226

Mars 52705-09-13 01:12 G 20971420.52 20971420.55 20971420.58 0.1803 0.1727

Mars 52706-07-11 16:05 G 20971722.06 20971722.17 20971722.28 0.1730 0.1300

Venus 52707-05-25 19:12 G 20972040.23 20972040.30 20972040.37 0.3686 0.2550

Jupiter 52708-06-16 18:58 G 20972428.29 20972428.29 20972428.30 0.0502 0.0502

Jupiter 52708-09-15 06:29 G 20972518.64 20972518.77 20972518.90 0.0505 0.0363

Uranus 52709-04-26 03:07 G 20972741.57 20972741.63 20972741.70 0.0139 0.0121

Uranus 52709-07-23 06:29 G 20972829.68 20972829.77 20972829.86 0.0139 0.0101

Uranus 52709-10-19 09:36 G 20972917.80 20972917.90 20972918.01 0.0139 0.0080

Uranus 52710-01-15 12:58 G 20973005.93 20973006.04 20973006.16 0.0140 0.0059

Venus 52710-02-28 07:41 G 20973049.69 20973049.82 20973049.96 0.3684 0.1982

Uranus 52710-04-13 16:19 G 20973094.06 20973094.18 20973094.31 0.0140 0.0039

Uranus 52710-07-10 19:41 G 20973182.19 20973182.32 20973182.45 0.0140 0.0018

Uranus 52710-10-06 22:48 G 20973270.32 20973270.45 20973270.58 0.0140 0.0004

Moon 52710-12-31 03:36 G 20973355.56 20973355.65 20973355.74 0.2671 0.1612

Earth 52710-12-31 04:19 G 20973355.59 20973355.68 20973355.76 0.2667 0.1596 *

Uranus 52711-01-03 02:10 G 20973358.46 20973358.59 20973358.72 0.0140 0.0024

Uranus 52711-04-01 05:17 G 20973446.60 20973446.72 20973446.85 0.0140 0.0045

Uranus 52711-06-28 08:38 G 20973534.75 20973534.86 20973534.98 0.0140 0.0065

Uranus 52711-09-24 11:46 G 20973622.90 20973622.99 20973623.10 0.0140 0.0086

Uranus 52711-12-21 14:53 G 20973711.05 20973711.12 20973711.22 0.0140 0.0108

Uranus 52712-03-18 18:29 G 20973799.22 20973799.27 20973799.32 0.0140 0.0128

Moon 52713-07-07 00:14 G 20974274.35 20974274.51 20974274.67 0.2665 0.0115

Earth 52713-07-07 01:55 G 20974274.42 20974274.58 20974274.74 0.2666 0.0099 *

Jupiter 52714-02-17 23:31 G 20974500.37 20974500.48 20974500.58 0.0524 0.0272

Jupiter 52714-05-18 04:19 G 20974589.59 20974589.68 20974589.77 0.0521 0.0361

Pluto 52714-09-14 18:00 G 20974709.15 20974709.25 20974709.36 0.0077 0.0062

Pluto 52714-12-11 20:24 G 20974797.20 20974797.35 20974797.51 0.0077 0.0041

Mars 52715-02-03 10:34 G 20974850.83 20974850.94 20974851.05 0.1796 0.0589

Pluto 52715-03-09 22:48 G 20974885.27 20974885.45 20974885.63 0.0076 0.0020

Pluto 52715-06-06 00:58 G 20974973.36 20974973.54 20974973.73 0.0076 0.0003

Pluto 52715-09-02 03:07 G 20975061.46 20975061.63 20975061.82 0.0076 0.0023

Pluto 52715-11-29 05:17 G 20975149.58 20975149.72 20975149.89 0.0076 0.0043

Mars 52715-12-01 15:36 G 20975151.99 20975152.15 20975152.31 0.1737 0.0448

Pluto 52716-02-25 07:26 G 20975237.73 20975237.81 20975237.93 0.0076 0.0064

Saturn 52718-05-01 20:38 G 20976034.26 20976034.36 20976034.49 0.0262 0.0211

Saturn 52718-07-29 17:31 G 20976123.04 20976123.23 20976123.42 0.0262 0.0031

Saturn 52718-10-26 14:24 G 20976211.94 20976212.10 20976212.25 0.0262 0.0149

Jupiter 52720-07-04 03:07 G 20976828.46 20976828.63 20976828.81 0.0505 0.0147

Moon 52724-01-02 21:36 G 20978106.30 20978106.40 20978106.51 0.2673 0.0461

Earth 52724-01-02 21:50 G 20978106.30 20978106.41 20978106.52 0.2666 0.0392 *

Mars 52724-06-25 20:10 G 20978281.23 20978281.34 20978281.45 0.1789 0.0550

Jupiter 52725-12-07 03:22 G 20978810.58 20978810.64 20978810.71 0.0524 0.0439

Jupiter 52726-03-06 08:38 G 20978899.74 20978899.86 20978899.98 0.0522 0.0199

Jupiter 52732-04-22 00:00 G 20981138.31 20981138.50 20981138.68 0.0504 0.0068

Saturn 52733-02-27 00:14 G 20981449.41 20981449.51 20981449.62 0.0299 0.0184

Saturn 52733-05-26 12:58 G 20981537.91 20981538.04 20981538.17 0.0299 0.0011

Saturn 52733-08-23 01:12 G 20981626.45 20981626.55 20981626.65 0.0299 0.0177

Mars 52733-11-16 05:31 G 20981711.69 20981711.73 20981711.77 0.1782 0.1682

Earth 52737-01-04 15:22 G 20982857.03 20982857.14 20982857.24 0.2665 0.0809

Moon 52737-01-04 15:36 G 20982857.05 20982857.15 20982857.25 0.2671 0.0877 *

Jupiter 52737-12-23 12:43 G 20983209.91 20983210.03 20983210.16 0.0522 0.0043

Moon 52743-12-29 14:38 G 20985407.10 20985407.11 20985407.13 0.2669 0.2636

Earth 52743-12-29 15:22 G 20985407.12 20985407.14 20985407.17 0.2669 0.2582 *

Jupiter 52744-02-08 20:24 G 20985448.20 20985448.35 20985448.51 0.0503 0.0285

Mars 52746-01-09 16:48 G 20986149.13 20986149.20 20986149.27 0.1730 0.1545

Moon 52746-07-04 23:46 G 20986325.40 20986325.49 20986325.58 0.2660 0.2142

Earth 52746-07-05 00:58 G 20986325.44 20986325.54 20986325.64 0.2665 0.2094 *

Venus 52747-05-17 19:26 G 20986642.28 20986642.31 20986642.33 0.3687 0.3517

Saturn 52747-09-18 21:50 G 20986766.36 20986766.41 20986766.49 0.0263 0.0245

Saturn 52747-12-16 18:43 G 20986855.10 20986855.28 20986855.47 0.0263 0.0065

Saturn 52748-03-14 15:22 G 20986943.98 20986944.14 20986944.32 0.0263 0.0116

Uranus 52749-08-25 11:31 G 20987472.96 20987472.98 20987473.02 0.0139 0.0137

Jupiter 52749-10-11 16:48 G 20987520.08 20987520.20 20987520.32 0.0524 0.0131

Uranus 52749-11-21 19:26 G 20987561.20 20987561.31 20987561.45 0.0139 0.0107

Earth 52750-01-07 08:38 G 20987607.79 20987607.86 20987607.93 0.2664 0.1979

Moon 52750-01-07 09:22 G 20987607.82 20987607.89 20987607.96 0.2665 0.2055 *

Jupiter 52750-01-08 21:36 G 20987609.37 20987609.40 20987609.44 0.0521 0.0498

Uranus 52750-02-18 03:22 G 20987649.49 20987649.64 20987649.81 0.0139 0.0077

Uranus 52750-05-17 11:31 G 20987737.80 20987737.98 20987738.17 0.0139 0.0046

Uranus 52750-08-13 19:26 G 20987826.12 20987826.31 20987826.51 0.0138 0.0016

Uranus 52750-11-10 03:22 G 20987914.45 20987914.64 20987914.84 0.0138 0.0014

Uranus 52751-02-06 11:17 G 20988002.79 20988002.97 20988003.16 0.0138 0.0044

Uranus 52751-05-05 19:12 G 20988091.14 20988091.30 20988091.47 0.0138 0.0074

Uranus 52751-08-02 03:07 G 20988179.51 20988179.63 20988179.76 0.0138 0.0105

Uranus 52751-10-29 11:17 G 20988267.93 20988267.97 20988268.01 0.0138 0.0134

Venus 52752-11-30 10:19 G 20988665.84 20988665.93 20988666.03 0.3686 0.1215

Mars 52754-08-04 10:34 G 20989277.84 20989277.94 20989278.05 0.1796 0.0743

Mars 52755-06-01 16:05 G 20989579.01 20989579.17 20989579.33 0.1737 0.0218

Jupiter 52755-11-27 17:02 G 20989758.20 20989758.21 20989758.22 0.0502 0.0500

Neptune 52756-02-24 19:55 G 20989847.31 20989847.33 20989847.39 0.0088 0.0086

Jupiter 52756-02-26 04:19 G 20989848.56 20989848.68 20989848.81 0.0505 0.0362

Neptune 52756-05-22 23:17 G 20989935.40 20989935.47 20989935.60 0.0088 0.0076

Neptune 52756-08-19 03:22 G 20990023.51 20990023.64 20990023.78 0.0088 0.0064

Neptune 52756-11-15 06:58 G 20990111.64 20990111.79 20990111.96 0.0088 0.0053

Moon 52756-12-31 08:24 G 20990157.76 20990157.85 20990157.94 0.2671 0.1502

Earth 52756-12-31 09:07 G 20990157.78 20990157.88 20990157.97 0.2667 0.1363 *

Neptune 52757-02-11 10:34 G 20990199.78 20990199.94 20990200.12 0.0088 0.0041

Neptune 52757-05-10 14:24 G 20990287.92 20990288.10 20990288.29 0.0088 0.0030

Neptune 52757-08-06 18:00 G 20990376.06 20990376.25 20990376.44 0.0088 0.0018

Neptune 52757-11-02 21:36 G 20990464.21 20990464.40 20990464.60 0.0088 0.0007

Neptune 52758-01-30 01:26 G 20990552.36 20990552.56 20990552.75 0.0088 0.0005

Neptune 52758-04-28 05:02 G 20990640.52 20990640.71 20990640.90 0.0088 0.0016

Venus 52758-06-16 01:26 G 20990689.46 20990689.56 20990689.65 0.3686 0.1096

Neptune 52758-07-25 08:24 G 20990728.67 20990728.85 20990729.05 0.0088 0.0028

Neptune 52758-10-21 12:14 G 20990816.84 20990817.01 20990817.19 0.0088 0.0039

Neptune 52759-01-17 15:36 G 20990905.01 20990905.15 20990905.33 0.0088 0.0051

Neptune 52759-04-15 19:26 G 20990993.18 20990993.31 20990993.46 0.0088 0.0062

Moon 52759-07-08 06:58 G 20991076.63 20991076.79 20991076.95 0.2666 0.0325

Earth 52759-07-08 08:53 G 20991076.71 20991076.87 20991077.02 0.2666 0.0567 *

Neptune 52759-07-12 22:48 G 20991081.37 20991081.45 20991081.58 0.0089 0.0074

Neptune 52759-10-09 02:38 G 20991169.57 20991169.61 20991169.68 0.0089 0.0085

Jupiter 52761-07-30 21:07 G 20991830.28 20991830.38 20991830.49 0.0524 0.0289

Jupiter 52761-10-28 02:24 G 20991919.50 20991919.60 20991919.69 0.0521 0.0346

Saturn 52762-07-17 03:50 G 20992181.57 20992181.66 20992181.75 0.0298 0.0216

Saturn 52762-10-13 16:19 G 20992270.05 20992270.18 20992270.31 0.0299 0.0035

Saturn 52763-01-10 04:34 G 20992358.58 20992358.69 20992358.81 0.0299 0.0145

Mars 52763-12-25 20:10 G 20992708.22 20992708.34 20992708.45 0.1789 0.0398

Venus 52763-12-30 16:19 G 20992713.15 20992713.18 20992713.22 0.3686 0.3395

Venus 52766-10-05 10:34 G 20993722.79 20993722.94 20993723.10 0.3684 0.1067

Jupiter 52767-12-15 00:00 G 20994158.32 20994158.50 20994158.68 0.0504 0.0130

Moon 52770-01-03 02:38 G 20994908.50 20994908.61 20994908.72 0.2673 0.0112

Earth 52770-01-03 02:38 G 20994908.50 20994908.61 20994908.72 0.2666 0.0170 *

Mars 52773-05-17 05:31 G 20996138.67 20996138.73 20996138.79 0.1782 0.1522

Jupiter 52773-05-19 01:41 G 20996140.51 20996140.57 20996140.64 0.0525 0.0444

Jupiter 52773-08-16 06:58 G 20996229.68 20996229.79 20996229.91 0.0522 0.0196

Saturn 52777-05-04 18:43 G 20997587.11 20997587.28 20997587.45 0.0262 0.0111

Saturn 52777-08-01 15:22 G 20997675.96 20997676.14 20997676.32 0.0262 0.0068

Saturn 52777-10-29 12:00 G 20997764.95 20997765.00 20997765.07 0.0262 0.0249

Jupiter 52779-10-02 20:53 G 20998468.18 20998468.37 20998468.55 0.0504 0.0084

Earth 52783-01-05 19:55 G 20999659.23 20999659.33 20999659.43 0.2665 0.1035

Moon 52783-01-05 20:24 G 20999659.25 20999659.35 20999659.45 0.2670 0.1043 *

Jupiter 52785-06-04 11:17 G 21000539.84 21000539.97 21000540.09 0.0522 0.0036

Moon 52789-12-29 19:26 G 21002209.27 21002209.31 21002209.35 0.2670 0.2459

Earth 52789-12-29 20:10 G 21002209.29 21002209.34 21002209.39 0.2668 0.2345 *

Jupiter 52791-07-21 17:46 G 21002778.09 21002778.24 21002778.39 0.0503 0.0294

Saturn 52791-12-04 05:31 G 21002913.69 21002913.73 21002913.79 0.0299 0.0271

Saturn 52792-03-01 18:14 G 21003002.13 21003002.26 21003002.38 0.0299 0.0089

Saturn 52792-05-29 06:43 G 21003090.65 21003090.78 21003090.90 0.0299 0.0092

Moon 52792-07-05 06:14 G 21003127.65 21003127.76 21003127.88 0.2662 0.1869

Earth 52792-07-05 07:41 G 21003127.70 21003127.82 21003127.95 0.2665 0.1616 *

Saturn 52792-08-25 18:58 G 21003179.24 21003179.29 21003179.34 0.0299 0.0271

Uranus 52793-02-17 06:58 G 21003354.77 21003354.79 21003354.81 0.0139 0.0137

Uranus 52793-05-16 10:05 G 21003442.86 21003442.92 21003443.00 0.0139 0.0117

Uranus 52793-08-12 13:26 G 21003530.97 21003531.06 21003531.16 0.0139 0.0096

Uranus 52793-11-08 16:48 G 21003619.09 21003619.20 21003619.31 0.0139 0.0076

Mars 52794-02-02 10:34 G 21003704.84 21003704.94 21003705.04 0.1796 0.0882

Uranus 52794-02-04 19:55 G 21003707.22 21003707.33 21003707.46 0.0139 0.0056

Uranus 52794-05-03 23:17 G 21003795.35 21003795.47 21003795.60 0.0140 0.0035

Uranus 52794-07-31 02:38 G 21003883.48 21003883.61 21003883.74 0.0140 0.0014

Uranus 52794-10-27 06:00 G 21003971.62 21003971.75 21003971.88 0.0140 0.0008

Mars 52794-11-30 16:48 G 21004006.04 21004006.20 21004006.37 0.1737 0.0056

Uranus 52795-01-23 09:07 G 21004059.75 21004059.88 21004060.01 0.0140 0.0028

Uranus 52795-04-21 12:29 G 21004147.90 21004148.02 21004148.14 0.0140 0.0049

Uranus 52795-07-18 15:36 G 21004236.04 21004236.15 21004236.27 0.0140 0.0070

Uranus 52795-10-14 18:58 G 21004324.19 21004324.29 21004324.39 0.0140 0.0090

Earth 52796-01-08 13:26 G 21004410.00 21004410.06 21004410.12 0.2664 0.2199

Moon 52796-01-08 14:10 G 21004410.04 21004410.09 21004410.14 0.2664 0.2315 *

Uranus 52796-01-10 22:05 G 21004412.35 21004412.42 21004412.51 0.0140 0.0112

Uranus 52796-04-08 01:26 G 21004500.52 21004500.56 21004500.61 0.0140 0.0132

Jupiter 52797-03-23 15:22 G 21004850.02 21004850.14 21004850.26 0.0523 0.0129

Jupiter 52797-06-20 20:10 G 21004939.31 21004939.34 21004939.38 0.0520 0.0497

Moon 52803-01-01 13:26 G 21006959.96 21006960.06 21006960.16 0.2672 0.1142

Earth 52803-01-01 13:55 G 21006959.98 21006960.08 21006960.18 0.2667 0.1132 *

Mars 52803-06-25 20:10 G 21007135.22 21007135.34 21007135.45 0.1789 0.0251

Jupiter 52803-08-08 02:10 G 21007178.46 21007178.59 21007178.72 0.0505 0.0358

Venus 52803-12-22 16:34 G 21007315.13 21007315.19 21007315.26 0.3686 0.2667

Mars 52804-04-21 16:05 G 21007436.17 21007436.17 21007436.18 0.1744 0.1741

Moon 52805-07-08 13:41 G 21007878.92 21007879.07 21007879.22 0.2666 0.0885

Earth 52805-07-08 15:36 G 21007879.00 21007879.15 21007879.29 0.2666 0.1043 *

Saturn 52806-09-21 19:26 G 21008319.16 21008319.31 21008319.46 0.0262 0.0150

Saturn 52806-12-19 16:05 G 21008407.98 21008408.17 21008408.36 0.0262 0.0029

Saturn 52807-03-18 12:43 G 21008496.93 21008497.03 21008497.15 0.0262 0.0211

Jupiter 52809-01-09 19:12 G 21009160.20 21009160.30 21009160.41 0.0524 0.0300

Jupiter 52809-04-09 00:14 G 21009249.42 21009249.51 21009249.61 0.0522 0.0335

Venus 52809-07-07 07:41 G 21009338.72 21009338.82 21009338.92 0.3686 0.0362

Mars 52812-11-15 05:31 G 21010565.66 21010565.73 21010565.80 0.1782 0.1367

Venus 52815-01-20 22:34 G 21011362.36 21011362.44 21011362.53 0.3686 0.1956

Jupiter 52815-05-26 22:19 G 21011488.25 21011488.43 21011488.61 0.0504 0.0135

Moon 52816-01-04 07:26 G 21011710.70 21011710.81 21011710.92 0.2673 0.0023

Earth 52816-01-04 07:26 G 21011710.70 21011710.81 21011710.92 0.2666 0.0108 *

Jupiter 52820-10-28 23:31 G 21013470.42 21013470.48 21013470.54 0.0525 0.0459

Jupiter 52821-01-26 04:48 G 21013559.59 21013559.70 21013559.82 0.0522 0.0183

Saturn 52821-07-19 21:36 G 21013734.28 21013734.40 21013734.52 0.0299 0.0122

Saturn 52821-10-16 10:05 G 21013822.79 21013822.92 21013823.04 0.0299 0.0059

Saturn 52822-01-12 22:19 G 21013911.35 21013911.43 21013911.51 0.0299 0.0238

Jupiter 52827-03-14 17:46 G 21015798.06 21015798.24 21015798.42 0.0504 0.0098

Earth 52829-01-06 00:43 G 21016461.44 21016461.53 21016461.63 0.2665 0.1258

Moon 52829-01-06 01:26 G 21016461.47 21016461.56 21016461.65 0.2668 0.1384 *

Jupiter 52832-11-14 09:36 G 21017869.78 21017869.90 21017870.03 0.0523 0.0033

Mars 52833-08-03 10:34 G 21018131.84 21018131.94 21018132.03 0.1796 0.1035

Uranus 52833-09-14 18:14 G 21018174.21 21018174.26 21018174.34 0.0139 0.0131

Uranus 52833-12-12 02:10 G 21018262.47 21018262.59 21018262.74 0.0139 0.0101

Uranus 52834-03-10 10:05 G 21018350.76 21018350.92 21018351.10 0.0139 0.0071

Mars 52834-05-31 17:17 G 21018433.06 21018433.22 21018433.38 0.1737 0.0242

Uranus 52834-06-06 18:00 G 21018439.08 21018439.25 21018439.45 0.0139 0.0041

Uranus 52834-09-03 02:10 G 21018527.40 21018527.59 21018527.79 0.0138 0.0010

Uranus 52834-11-30 10:05 G 21018615.73 21018615.92 21018616.12 0.0138 0.0020

Uranus 52835-02-26 18:00 G 21018704.07 21018704.25 21018704.44 0.0138 0.0051

Uranus 52835-05-26 01:41 G 21018792.43 21018792.57 21018792.74 0.0138 0.0081

Uranus 52835-08-22 09:36 G 21018880.80 21018880.90 21018881.03 0.0138 0.0111

Moon 52835-12-31 00:14 G 21019011.45 21019011.51 21019011.58 0.2670 0.2198

Earth 52835-12-31 00:58 G 21019011.48 21019011.54 21019011.61 0.2668 0.2113 *

Saturn 52836-02-08 19:12 G 21019051.18 21019051.30 21019051.43 0.0262 0.0196

Saturn 52836-05-07 15:50 G 21019139.98 21019140.16 21019140.35 0.0262 0.0018

Saturn 52836-08-04 12:29 G 21019228.88 21019229.02 21019229.18 0.0262 0.0163

Neptune 52836-09-21 11:02 G 21019276.92 21019276.96 21019277.02 0.0089 0.0081

Neptune 52836-12-18 12:29 G 21019364.95 21019365.02 21019365.10 0.0089 0.0073

Neptune 52837-03-16 13:41 G 21019452.99 21019453.07 21019453.17 0.0089 0.0066

Neptune 52837-06-12 14:53 G 21019541.03 21019541.12 21019541.23 0.0089 0.0058

Neptune 52837-09-08 16:19 G 21019629.08 21019629.18 21019629.30 0.0089 0.0050

Neptune 52837-12-05 17:46 G 21019717.13 21019717.24 21019717.36 0.0089 0.0042

Neptune 52838-03-03 18:58 G 21019805.17 21019805.29 21019805.42 0.0089 0.0034

Neptune 52838-05-30 20:24 G 21019893.22 21019893.35 21019893.48 0.0089 0.0026

Moon 52838-07-06 12:43 G 21019929.89 21019930.03 21019930.17 0.2663 0.1226

Earth 52838-07-06 14:24 G 21019929.96 21019930.10 21019930.24 0.2665 0.1152 *

Neptune 52838-08-26 21:36 G 21019981.27 21019981.40 21019981.53 0.0089 0.0019

Neptune 52838-11-22 23:02 G 21020069.33 21020069.46 21020069.59 0.0089 0.0011

Jupiter 52838-12-31 14:38 G 21020107.97 21020108.11 21020108.26 0.0503 0.0308

Neptune 52839-02-19 00:14 G 21020157.38 21020157.51 21020157.64 0.0089 0.0003

Neptune 52839-05-18 01:26 G 21020245.43 21020245.56 21020245.70 0.0089 0.0006

Neptune 52839-08-14 02:53 G 21020333.49 21020333.62 21020333.75 0.0089 0.0012

Neptune 52839-11-10 04:05 G 21020421.54 21020421.67 21020421.80 0.0089 0.0020

Neptune 52840-02-06 05:17 G 21020509.60 21020509.72 21020509.85 0.0089 0.0028

Neptune 52840-05-04 06:29 G 21020597.66 21020597.77 21020597.90 0.0089 0.0036

Neptune 52840-07-31 07:41 G 21020685.72 21020685.82 21020685.95 0.0089 0.0044

Neptune 52840-10-27 09:07 G 21020773.78 21020773.88 21020773.99 0.0089 0.0051

Neptune 52841-01-23 10:19 G 21020861.84 21020861.93 21020862.04 0.0089 0.0059

Neptune 52841-04-21 11:31 G 21020949.91 21020949.98 21020950.08 0.0089 0.0067

Neptune 52841-07-18 12:58 G 21021037.98 21021038.04 21021038.12 0.0089 0.0074

Neptune 52841-10-14 14:10 G 21021126.05 21021126.09 21021126.15 0.0089 0.0082

Earth 52842-01-08 18:14 G 21021212.22 21021212.26 21021212.30 0.2664 0.2423

Moon 52842-01-08 18:58 G 21021212.25 21021212.29 21021212.33 0.2664 0.2476 *

Mars 52842-12-24 19:55 G 21021562.22 21021562.33 21021562.45 0.1789 0.0115

Mars 52843-10-21 16:48 G 21021863.12 21021863.20 21021863.28 0.1744 0.1509

Jupiter 52844-09-02 13:55 G 21022179.96 21022180.08 21022180.20 0.0523 0.0130

Jupiter 52844-11-30 18:43 G 21022269.25 21022269.28 21022269.32 0.0520 0.0497

Moon 52849-01-01 18:29 G 21023762.16 21023762.27 21023762.37 0.2673 0.0973

Earth 52849-01-01 18:43 G 21023762.17 21023762.28 21023762.38 0.2667 0.0897 *

Saturn 52850-12-06 23:02 G 21024466.36 21024466.46 21024466.56 0.0299 0.0183

Jupiter 52851-01-17 23:17 G 21024508.34 21024508.47 21024508.61 0.0505 0.0352

Saturn 52851-03-05 11:31 G 21024554.85 21024554.98 21024555.11 0.0299 0.0004

Saturn 52851-06-01 23:46 G 21024643.39 21024643.49 21024643.60 0.0299 0.0179

Moon 52851-07-09 20:38 G 21024681.22 21024681.36 21024681.50 0.2667 0.1261

Earth 52851-07-09 22:19 G 21024681.30 21024681.43 21024681.56 0.2667 0.1528 *

Mars 52852-05-16 05:31 G 21024992.64 21024992.73 21024992.81 0.1782 0.1224

Jupiter 52856-06-21 18:00 G 21026490.15 21026490.25 21026490.36 0.0524 0.0293

Jupiter 52856-09-18 23:02 G 21026579.37 21026579.46 21026579.56 0.0521 0.0340

Venus 52860-07-28 13:55 G 21027987.99 21027988.08 21027988.17 0.3686 0.1808

Moon 52862-01-04 12:14 G 21028512.90 21028513.01 21028513.12 0.2673 0.0371

Earth 52862-01-04 12:14 G 21028512.90 21028513.01 21028513.11 0.2666 0.0311 *

Jupiter 52862-11-05 20:10 G 21028818.16 21028818.34 21028818.52 0.0504 0.0134

Saturn 52865-06-27 19:26 G 21029783.24 21029783.31 21029783.39 0.0262 0.0239

Saturn 52865-09-24 16:05 G 21029871.99 21029872.17 21029872.36 0.0262 0.0060

Saturn 52865-12-22 12:43 G 21029960.86 21029961.03 21029961.20 0.0262 0.0120

Venus 52866-02-11 05:02 G 21030011.61 21030011.71 21030011.80 0.3686 0.0521

Jupiter 52868-04-09 21:50 G 21030800.35 21030800.41 21030800.47 0.0525 0.0465

Jupiter 52868-07-08 03:07 G 21030889.51 21030889.63 21030889.75 0.0522 0.0176

Venus 52871-08-27 19:55 G 21032035.27 21032035.33 21032035.39 0.3686 0.2806

Mars 52873-02-01 10:34 G 21032558.85 21032558.94 21032559.03 0.1796 0.1194

Pluto 52873-10-21 02:38 G 21032820.60 21032820.61 21032820.65 0.0067 0.0066

Mars 52873-11-29 18:00 G 21032860.09 21032860.25 21032860.40 0.1737 0.0481

Pluto 52874-01-17 03:22 G 21032908.57 21032908.64 21032908.73 0.0067 0.0056

Pluto 52874-04-15 04:05 G 21032996.57 21032996.67 21032996.78 0.0068 0.0045

Venus 52874-06-02 04:05 G 21033044.54 21033044.67 21033044.80 0.3684 0.2187

Pluto 52874-07-12 04:48 G 21033084.58 21033084.70 21033084.82 0.0068 0.0034

Jupiter 52874-08-24 16:34 G 21033128.01 21033128.19 21033128.37 0.0503 0.0085

Pluto 52874-10-08 05:17 G 21033172.60 21033172.72 21033172.85 0.0068 0.0023

Pluto 52875-01-04 06:00 G 21033260.61 21033260.75 21033260.88 0.0068 0.0012

Earth 52875-01-07 05:31 G 21033263.64 21033263.73 21033263.82 0.2665 0.1482

Moon 52875-01-07 06:14 G 21033263.67 21033263.76 21033263.85 0.2668 0.1500 *

Pluto 52875-04-02 06:29 G 21033348.64 21033348.77 21033348.91 0.0068 0.0002

Pluto 52875-06-29 07:12 G 21033436.66 21033436.80 21033436.93 0.0068 0.0010

Pluto 52875-09-25 07:41 G 21033524.69 21033524.82 21033524.95 0.0068 0.0020

Pluto 52875-12-22 08:10 G 21033612.73 21033612.84 21033612.97 0.0068 0.0032

Pluto 52876-03-19 08:53 G 21033700.77 21033700.87 21033700.98 0.0068 0.0043

Pluto 52876-06-15 09:22 G 21033788.81 21033788.89 21033788.98 0.0069 0.0054

Pluto 52876-09-11 10:05 G 21033876.88 21033876.92 21033876.96 0.0069 0.0065

Uranus 52877-03-09 14:10 G 21034056.06 21034056.09 21034056.13 0.0139 0.0132

Uranus 52877-06-05 17:31 G 21034144.15 21034144.23 21034144.31 0.0139 0.0112

Uranus 52877-09-01 20:38 G 21034232.27 21034232.36 21034232.47 0.0139 0.0091

Uranus 52877-11-29 00:00 G 21034320.39 21034320.50 21034320.62 0.0139 0.0070

Uranus 52878-02-25 03:22 G 21034408.52 21034408.64 21034408.76 0.0140 0.0050

Uranus 52878-05-24 06:43 G 21034496.65 21034496.78 21034496.91 0.0140 0.0029

Uranus 52878-08-20 09:50 G 21034584.78 21034584.91 21034585.04 0.0140 0.0009

Uranus 52878-11-16 13:12 G 21034672.92 21034673.05 21034673.18 0.0140 0.0013

Uranus 52879-02-12 16:34 G 21034761.06 21034761.19 21034761.31 0.0140 0.0034

Uranus 52879-05-11 19:41 G 21034849.20 21034849.32 21034849.44 0.0140 0.0055

Uranus 52879-08-07 23:02 G 21034937.35 21034937.46 21034937.57 0.0140 0.0075

Uranus 52879-11-04 02:10 G 21035025.50 21035025.59 21035025.69 0.0140 0.0096

Uranus 52880-01-31 05:31 G 21035113.66 21035113.73 21035113.80 0.0140 0.0117

Saturn 52880-04-25 01:55 G 21035198.50 21035198.58 21035198.67 0.0299 0.0222

Jupiter 52880-04-26 07:41 G 21035199.70 21035199.82 21035199.95 0.0523 0.0025

Uranus 52880-04-28 08:38 G 21035201.85 21035201.86 21035201.89 0.0140 0.0138

Saturn 52880-07-22 14:38 G 21035286.98 21035287.11 21035287.24 0.0299 0.0040

Saturn 52880-10-19 02:53 G 21035375.51 21035375.62 21035375.74 0.0299 0.0141

Moon 52881-12-31 05:17 G 21035813.64 21035813.72 21035813.79 0.2670 0.1959

Earth 52881-12-31 05:46 G 21035813.67 21035813.74 21035813.82 0.2668 0.1880 *

Mars 52882-06-24 19:55 G 21035989.22 21035989.33 21035989.45 0.1789 0.0079

Mars 52883-04-21 17:17 G 21036290.11 21036290.22 21036290.33 0.1744 0.1278

Moon 52884-07-06 19:26 G 21036732.16 21036732.31 21036732.46 0.2663 0.0978

Earth 52884-07-06 21:07 G 21036732.23 21036732.38 21036732.53 0.2665 0.0670 *

Jupiter 52886-06-12 12:00 G 21037437.86 21037438.00 21037438.15 0.0503 0.0317

Earth 52888-01-09 23:02 G 21038014.45 21038014.46 21038014.47 0.2664 0.2642

Mars 52891-11-15 05:31 G 21039419.64 21039419.73 21039419.82 0.1782 0.1064

Jupiter 52892-02-13 12:29 G 21039509.90 21039510.02 21039510.15 0.0523 0.0128

Jupiter 52892-05-12 17:31 G 21039599.19 21039599.23 21039599.26 0.0521 0.0500

Moon 52895-01-02 23:17 G 21040564.36 21040564.47 21040564.57 0.2674 0.0687

Earth 52895-01-02 23:31 G 21040564.37 21040564.48 21040564.58 0.2667 0.0673 *

Saturn 52895-02-11 15:50 G 21040603.99 21040604.16 21040604.33 0.0262 0.0107

Saturn 52895-05-11 12:29 G 21040692.84 21040693.02 21040693.20 0.0262 0.0072

Saturn 52895-08-08 09:07 G 21040781.84 21040781.88 21040781.94 0.0262 0.0252

Moon 52897-07-10 03:36 G 21041483.54 21041483.65 21041483.75 0.2669 0.1929

Earth 52897-07-10 05:02 G 21041483.61 21041483.71 21041483.82 0.2667 0.2011 *

Jupiter 52898-06-29 20:38 G 21041838.22 21041838.36 21041838.50 0.0505 0.0341

Jupiter 52903-12-03 16:48 G 21043820.10 21043820.20 21043820.31 0.0524 0.0289

Jupiter 52904-03-01 21:50 G 21043909.32 21043909.41 21043909.50 0.0521 0.0344

Earth 52908-01-06 17:02 G 21045315.10 21045315.21 21045315.31 0.2666 0.0532

Moon 52908-01-06 17:17 G 21045315.11 21045315.22 21045315.32 0.2672 0.0528 *

Saturn 52909-09-13 03:07 G 21045930.60 21045930.63 21045930.66 0.0299 0.0287

Saturn 52909-12-10 15:36 G 21046019.03 21046019.15 21046019.27 0.0299 0.0105

Saturn 52910-03-09 04:05 G 21046107.55 21046107.67 21046107.80 0.0299 0.0076

Jupiter 52910-04-18 17:46 G 21046148.06 21046148.24 21046148.42 0.0504 0.0130

Saturn 52910-06-05 16:19 G 21046196.12 21046196.18 21046196.25 0.0299 0.0256

Venus 52911-08-20 20:10 G 21046637.30 21046637.34 21046637.39 0.3686 0.3267

Mars 52912-08-03 10:19 G 21046985.86 21046985.93 21046986.01 0.1796 0.1329

Mars 52913-05-31 18:43 G 21047287.13 21047287.28 21047287.42 0.1737 0.0725

Jupiter 52915-09-21 20:53 G 21048130.31 21048130.37 21048130.44 0.0524 0.0453

Jupiter 52915-12-20 02:10 G 21048219.47 21048219.59 21048219.71 0.0522 0.0186

Venus 52917-03-05 11:17 G 21048660.87 21048660.97 21048661.06 0.3686 0.0960

Uranus 52917-10-06 01:41 G 21048875.48 21048875.57 21048875.66 0.0139 0.0123

Uranus 52918-01-02 09:36 G 21048963.76 21048963.90 21048964.04 0.0139 0.0093

Uranus 52918-03-31 17:31 G 21049052.06 21049052.23 21049052.40 0.0139 0.0063

Uranus 52918-06-28 01:26 G 21049140.37 21049140.56 21049140.75 0.0138 0.0033

Uranus 52918-09-24 09:22 G 21049228.69 21049228.89 21049229.09 0.0138 0.0002

Uranus 52918-12-21 17:17 G 21049317.03 21049317.22 21049317.41 0.0138 0.0028

Uranus 52919-03-20 01:12 G 21049405.38 21049405.55 21049405.73 0.0138 0.0058

Uranus 52919-06-16 09:07 G 21049493.73 21049493.88 21049494.03 0.0138 0.0088

Uranus 52919-09-12 17:02 G 21049582.12 21049582.21 21049582.31 0.0138 0.0118

Neptune 52920-11-21 18:29 G 21050018.20 21050018.27 21050018.34 0.0088 0.0082

Earth 52921-01-08 10:19 G 21050065.85 21050065.93 21050066.02 0.2665 0.1707

Moon 52921-01-08 11:02 G 21050065.88 21050065.96 21050066.04 0.2667 0.1853 *

Neptune 52921-02-17 21:50 G 21050106.31 21050106.41 21050106.54 0.0088 0.0071

Neptune 52921-05-17 01:26 G 21050194.43 21050194.56 21050194.72 0.0088 0.0060

Neptune 52921-08-13 05:02 G 21050282.56 21050282.71 21050282.89 0.0088 0.0048

Neptune 52921-11-09 08:53 G 21050370.70 21050370.87 21050371.05 0.0088 0.0037

Mars 52921-12-24 20:10 G 21050416.22 21050416.34 21050416.45 0.1789 0.0226

Jupiter 52922-02-04 14:38 G 21050457.93 21050458.11 21050458.30 0.0504 0.0082

Neptune 52922-02-05 12:29 G 21050458.84 21050459.02 21050459.22 0.0088 0.0026

Neptune 52922-05-04 16:05 G 21050546.99 21050547.17 21050547.37 0.0088 0.0015

Neptune 52922-07-31 19:55 G 21050635.14 21050635.33 21050635.53 0.0088 0.0003

Venus 52922-09-19 02:10 G 21050684.50 21050684.59 21050684.68 0.3686 0.1357

Mars 52922-10-21 18:00 G 21050717.12 21050717.25 21050717.38 0.1744 0.1042

Neptune 52922-10-27 23:31 G 21050723.29 21050723.48 21050723.68 0.0088 0.0009

Neptune 52923-01-24 03:07 G 21050811.45 21050811.63 21050811.83 0.0088 0.0020

Neptune 52923-04-22 06:58 G 21050899.61 21050899.79 21050899.97 0.0088 0.0032

Neptune 52923-07-19 10:19 G 21050987.77 21050987.93 21050988.11 0.0088 0.0044

Neptune 52923-10-15 14:10 G 21051075.94 21051076.09 21051076.25 0.0088 0.0055

Neptune 52924-01-11 17:31 G 21051164.12 21051164.23 21051164.38 0.0088 0.0067

Neptune 52924-04-08 21:22 G 21051252.31 21051252.39 21051252.50 0.0088 0.0078

Saturn 52924-07-01 15:22 G 21051335.99 21051336.14 21051336.29 0.0262 0.0156

Saturn 52924-09-28 12:00 G 21051424.81 21051425.00 21051425.19 0.0262 0.0022

Saturn 52924-12-26 08:38 G 21051513.74 21051513.86 21051513.98 0.0262 0.0202

Jupiter 52927-10-08 06:14 G 21052529.63 21052529.76 21052529.89 0.0523 0.0021

Moon 52928-01-02 10:05 G 21052615.84 21052615.92 21052616.00 0.2671 0.1752

Earth 52928-01-02 10:34 G 21052615.86 21052615.94 21052616.03 0.2668 0.1650 *

Venus 52928-04-03 17:17 G 21052708.21 21052708.22 21052708.23 0.3685 0.3654

Moon 52930-07-09 02:10 G 21053534.43 21053534.59 21053534.75 0.2664 0.0293

Earth 52930-07-09 03:50 G 21053534.50 21053534.66 21053534.82 0.2666 0.0199 *

Venus 52931-01-08 06:43 G 21053717.63 21053717.78 21053717.94 0.3684 0.0849

Mars 52931-05-17 05:31 G 21053846.63 21053846.73 21053846.83 0.1782 0.0912

Jupiter 52933-11-23 11:17 G 21054767.83 21054767.97 21054768.12 0.0503 0.0297

Saturn 52939-04-29 18:14 G 21056751.15 21056751.26 21056751.38 0.0299 0.0149

Saturn 52939-07-27 06:43 G 21056839.65 21056839.78 21056839.91 0.0299 0.0033

Jupiter 52939-07-27 10:48 G 21056839.83 21056839.95 21056840.07 0.0524 0.0134 *

Saturn 52939-10-23 18:58 G 21056928.21 21056928.29 21056928.39 0.0299 0.0213

Jupiter 52939-10-24 15:36 G 21056929.12 21056929.15 21056929.19 0.0521 0.0495

Moon 52941-01-04 04:05 G 21057366.56 21057366.67 21057366.78 0.2674 0.0462

Earth 52941-01-04 04:19 G 21057366.57 21057366.68 21057366.78 0.2667 0.0444 *

Moon 52943-07-12 10:34 G 21058285.85 21058285.94 21058286.02 0.2671 0.2231

Earth 52943-07-12 12:00 G 21058285.95 21058286.00 21058286.05 0.2667 0.2502 *

Jupiter 52945-12-10 18:14 G 21059168.12 21059168.26 21059168.40 0.0505 0.0336

Jupiter 52951-05-15 15:36 G 21061150.04 21061150.15 21061150.26 0.0524 0.0284

Jupiter 52951-08-12 20:38 G 21061239.27 21061239.36 21061239.45 0.0521 0.0350

Mars 52952-02-02 10:34 G 21061412.87 21061412.94 21061413.00 0.1796 0.1491

Mars 52952-11-29 19:12 G 21061714.16 21061714.30 21061714.43 0.1737 0.0944

Saturn 52953-11-18 15:07 G 21062068.02 21062068.13 21062068.25 0.0262 0.0203

Earth 52954-01-06 21:50 G 21062117.30 21062117.41 21062117.51 0.2666 0.0758

Moon 52954-01-06 22:05 G 21062117.32 21062117.42 21062117.53 0.2671 0.0834 *

Saturn 52954-02-15 11:46 G 21062156.80 21062156.99 21062157.17 0.0262 0.0026

Saturn 52954-05-15 08:10 G 21062245.69 21062245.84 21062246.00 0.0262 0.0154

Jupiter 52957-09-28 15:07 G 21063477.95 21063478.13 21063478.31 0.0504 0.0124

Pluto 52960-08-11 06:43 G 21064525.69 21064525.78 21064525.90 0.0077 0.0063

Pluto 52960-11-07 09:07 G 21064613.74 21064613.88 21064614.05 0.0077 0.0042

Earth 52960-12-30 21:50 G 21064667.40 21064667.41 21064667.42 0.2669 0.2631

Pluto 52961-02-03 11:31 G 21064701.81 21064701.98 21064702.17 0.0077 0.0021

Uranus 52961-03-30 21:22 G 21064757.34 21064757.39 21064757.44 0.0139 0.0128

Pluto 52961-05-02 13:55 G 21064789.90 21064790.08 21064790.27 0.0076 0.0001

Mars 52961-06-24 19:55 G 21064843.22 21064843.33 21064843.45 0.1789 0.0358

Uranus 52961-06-27 00:29 G 21064845.45 21064845.52 21064845.61 0.0139 0.0107

Pluto 52961-07-29 16:05 G 21064878.00 21064878.17 21064878.36 0.0076 0.0022

Uranus 52961-09-23 03:50 G 21064933.56 21064933.66 21064933.77 0.0139 0.0086

Pluto 52961-10-25 18:14 G 21064966.12 21064966.26 21064966.43 0.0076 0.0043

Uranus 52961-12-20 07:12 G 21065021.69 21065021.80 21065021.92 0.0140 0.0066

Pluto 52962-01-21 20:24 G 21065054.27 21065054.35 21065054.47 0.0076 0.0063

Uranus 52962-03-18 10:34 G 21065109.82 21065109.94 21065110.06 0.0140 0.0045

Mars 52962-04-21 18:29 G 21065144.13 21065144.27 21065144.41 0.1744 0.0820

Uranus 52962-06-14 13:55 G 21065197.95 21065198.08 21065198.21 0.0140 0.0024

Uranus 52962-09-10 17:02 G 21065286.08 21065286.21 21065286.34 0.0140 0.0005

Uranus 52962-12-07 20:24 G 21065374.22 21065374.35 21065374.48 0.0140 0.0018

Jupiter 52963-03-03 19:55 G 21065460.26 21065460.33 21065460.39 0.0525 0.0445

Uranus 52963-03-05 23:31 G 21065462.36 21065462.48 21065462.61 0.0140 0.0039

Jupiter 52963-06-01 01:12 G 21065549.43 21065549.55 21065549.67 0.0522 0.0195

Uranus 52963-06-02 02:53 G 21065550.51 21065550.62 21065550.74 0.0140 0.0060

Moon 52963-07-07 01:26 G 21065585.51 21065585.56 21065585.61 0.2661 0.2502

Earth 52963-07-07 02:53 G 21065585.55 21065585.62 21065585.70 0.2664 0.2343 *

Uranus 52963-08-29 06:14 G 21065638.66 21065638.76 21065638.87 0.0140 0.0080

Uranus 52963-11-25 09:22 G 21065726.81 21065726.89 21065726.99 0.0140 0.0102

Uranus 52964-02-21 12:43 G 21065814.97 21065815.03 21065815.10 0.0140 0.0122

Earth 52967-01-09 15:07 G 21066868.06 21066868.13 21066868.21 0.2664 0.1928

Moon 52967-01-09 15:50 G 21066868.09 21066868.16 21066868.23 0.2667 0.1958 *

Venus 52968-03-26 17:31 G 21067310.15 21067310.23 21067310.30 0.3686 0.2412

Saturn 52968-09-15 18:58 G 21067483.20 21067483.29 21067483.37 0.0299 0.0221

Saturn 52968-12-13 07:26 G 21067571.68 21067571.81 21067571.94 0.0299 0.0039

Saturn 52969-03-11 19:55 G 21067660.21 21067660.33 21067660.44 0.0299 0.0143

Jupiter 52969-07-17 12:29 G 21067787.84 21067788.02 21067788.20 0.0504 0.0083

Mars 52970-11-15 05:17 G 21068273.62 21068273.72 21068273.83 0.1782 0.0773

Venus 52973-10-10 08:24 G 21069333.75 21069333.85 21069333.95 0.3686 0.0130

Moon 52974-01-02 14:53 G 21069418.03 21069418.12 21069418.22 0.2673 0.1430

Earth 52974-01-02 15:22 G 21069418.05 21069418.14 21069418.24 0.2668 0.1416 *

Jupiter 52975-03-20 05:31 G 21069859.60 21069859.73 21069859.85 0.0522 0.0037

Moon 52976-07-09 08:53 G 21070336.71 21070336.87 21070337.03 0.2665 0.0037

Earth 52976-07-09 10:34 G 21070336.78 21070336.94 21070337.10 0.2666 0.0285 *

Venus 52979-04-25 23:31 G 21071357.40 21071357.48 21071357.56 0.3686 0.2207

Jupiter 52981-05-05 09:50 G 21072097.76 21072097.91 21072098.06 0.0503 0.0289

Saturn 52983-04-07 13:55 G 21072800.05 21072800.08 21072800.11 0.0262 0.0258

Saturn 52983-07-05 10:19 G 21072888.75 21072888.93 21072889.11 0.0262 0.0081

Saturn 52983-10-02 06:58 G 21072977.62 21072977.79 21072977.97 0.0262 0.0098

Moon 52987-01-05 08:53 G 21074168.76 21074168.87 21074168.98 0.2673 0.0246

Earth 52987-01-05 09:07 G 21074168.77 21074168.88 21074168.99 0.2667 0.0231 *

Jupiter 52987-01-06 09:36 G 21074169.77 21074169.90 21074170.02 0.0523 0.0132

Jupiter 52987-04-05 14:24 G 21074259.07 21074259.10 21074259.13 0.0521 0.0498

Mars 52991-08-03 10:34 G 21075839.89 21075839.94 21075839.98 0.1796 0.1642

Mars 52992-05-30 19:41 G 21076141.20 21076141.32 21076141.44 0.1737 0.1173

Jupiter 52993-02-21 06:43 G 21076407.77 21076407.78 21076407.80 0.0502 0.0500

Jupiter 52993-05-22 18:00 G 21076498.12 21076498.25 21076498.38 0.0505 0.0363

Saturn 52998-02-02 21:07 G 21078215.33 21078215.38 21078215.44 0.0299 0.0268

Saturn 52998-05-02 09:50 G 21078303.78 21078303.91 21078304.03 0.0299 0.0086

Saturn 52998-07-29 22:19 G 21078392.30 21078392.43 21078392.55 0.0299 0.0095

Jupiter 52998-10-25 13:55 G 21078479.98 21078480.08 21078480.19 0.0524 0.0286

Saturn 52998-10-26 10:34 G 21078480.89 21078480.94 21078480.99 0.0299 0.0274

Jupiter 52999-01-22 19:12 G 21078569.21 21078569.30 21078569.39 0.0521 0.0349

Earth 53000-01-08 02:38 G 21078919.51 21078919.61 21078919.71 0.2665 0.0981

Moon 53000-01-08 03:07 G 21078919.53 21078919.63 21078919.73 0.2670 0.1043 *

Mars 53000-12-24 19:55 G 21079270.22 21079270.33 21079270.44 0.1789 0.0510

54TH MILLENNIUM CE

This is a list of transits of Mercury in the 54th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	**53001-03-24 09:22**	**G**	**21079359.87**	**21079359.89**	**21079359.94**	**0.0089**	**0.0086**	
Neptune	**53001-06-20 10:48**	**G**	**21079447.90**	**21079447.95**	**21079448.02**	**0.0089**	**0.0078**	
Neptune	**53001-09-16 12:14**	**G**	**21079535.93**	**21079536.01**	**21079536.09**	**0.0089**	**0.0070**	
Mars	**53001-10-21 19:12**	**G**	**21079571.14**	**21079571.30**	**21079571.45**	**0.1744**	**0.0581**	
Uranus	**53001-10-27 09:36**	**G**	**21079576.79**	**21079576.90**	**21079577.01**	**0.0139**	**0.0113**	
Neptune	**53001-12-13 13:26**	**G**	**21079623.97**	**21079624.06**	**21079624.16**	**0.0089**	**0.0062**	
Uranus	**53002-01-23 17:31**	**G**	**21079665.07**	**21079665.23**	**21079665.38**	**0.0139**	**0.0083**	
Neptune	**53002-03-11 14:53**	**G**	**21079712.02**	**21079712.12**	**21079712.23**	**0.0089**	**0.0054**	
Uranus	**53002-04-22 01:26**	**G**	**21079753.38**	**21079753.56**	**21079753.74**	**0.0139**	**0.0053**	
Neptune	**53002-06-07 16:05**	**G**	**21079800.07**	**21079800.17**	**21079800.29**	**0.0089**	**0.0047**	
Uranus	**53002-07-19 09:22**	**G**	**21079841.70**	**21079841.89**	**21079842.08**	**0.0138**	**0.0023**	
Neptune	**53002-09-03 17:17**	**G**	**21079888.11**	**21079888.22**	**21079888.35**	**0.0089**	**0.0039**	
Uranus	**53002-10-15 17:17**	**G**	**21079930.02**	**21079930.22**	**21079930.41**	**0.0138**	**0.0008**	
Neptune	**53002-11-30 18:43**	**G**	**21079976.16**	**21079976.28**	**21079976.41**	**0.0089**	**0.0031**	
Uranus	**53003-01-12 00:58**	**G**	**21080018.36**	**21080018.54**	**21080018.74**	**0.0138**	**0.0038**	
Neptune	**53003-02-26 20:10**	**G**	**21080064.21**	**21080064.34**	**21080064.47**	**0.0089**	**0.0023**	
Uranus	**53003-04-10 08:53**	**G**	**21080106.71**	**21080106.87**	**21080107.05**	**0.0138**	**0.0068**	
Neptune	**53003-05-25 21:22**	**G**	**21080152.26**	**21080152.39**	**21080152.52**	**0.0089**	**0.0015**	
Uranus	**53003-07-07 16:48**	**G**	**21080195.07**	**21080195.20**	**21080195.35**	**0.0138**	**0.0098**	
Neptune	**53003-08-21 22:48**	**G**	**21080240.32**	**21080240.45**	**21080240.58**	**0.0089**	**0.0007**	

Uranus 53003-10-04 00:43 G 21080283.47 21080283.53 21080283.61 0.0138 0.0128

Neptune 53003-11-18 00:00 G 21080328.37 21080328.50 21080328.63 0.0089 0.0002

Neptune 53004-02-14 01:12 G 21080416.43 21080416.55 21080416.69 0.0089 0.0009

Neptune 53004-05-12 02:38 G 21080504.48 21080504.61 21080504.74 0.0089 0.0016

Neptune 53004-08-08 03:50 G 21080592.54 21080592.66 21080592.79 0.0089 0.0024

Neptune 53004-11-04 05:02 G 21080680.60 21080680.71 21080680.84 0.0089 0.0032

Neptune 53005-01-31 06:29 G 21080768.65 21080768.77 21080768.89 0.0089 0.0039

Jupiter 53005-03-11 13:12 G 21080807.87 21080808.05 21080808.23 0.0504 0.0125

Neptune 53005-04-29 07:41 G 21080856.71 21080856.82 21080856.94 0.0089 0.0047

Neptune 53005-07-26 08:53 G 21080944.78 21080944.87 21080944.98 0.0089 0.0055

Neptune 53005-10-22 10:19 G 21081032.84 21081032.93 21081033.02 0.0089 0.0062

Neptune 53006-01-18 11:31 G 21081120.91 21081120.98 21081121.06 0.0089 0.0070

Neptune 53006-04-16 12:43 G 21081208.98 21081209.03 21081209.10 0.0089 0.0078

Neptune 53006-07-13 14:10 G 21081297.06 21081297.09 21081297.12 0.0089 0.0085

Moon 53007-01-02 01:55 G 21081469.54 21081469.58 21081469.62 0.2669 0.2427

Earth 53007-01-02 02:38 G 21081469.56 21081469.61 21081469.66 0.2669 0.2401 *

Moon 53009-07-08 08:10 G 21082387.74 21082387.84 21082387.94 0.2661 0.2020

Earth 53009-07-08 09:36 G 21082387.79 21082387.90 21082388.01 0.2664 0.1876 *

Mars 53010-05-17 05:31 G 21082700.62 21082700.73 21082700.84 0.1782 0.0611

Jupiter 53010-08-14 18:43 G 21082790.22 21082790.28 21082790.35 0.0525 0.0437

Jupiter 53010-11-12 00:00 G 21082879.39 21082879.50 21082879.62 0.0522 0.0205

Saturn 53012-11-22 09:50 G 21083620.75 21083620.91 21083621.08 0.0262 0.0129

Earth 53013-01-10 19:55 G 21083670.27 21083670.33 21083670.39 0.2664 0.2150

Moon 53013-01-10 20:38 G 21083670.30 21083670.36 21083670.41 0.2665 0.2268 *

Saturn 53013-02-19 06:29 G 21083709.59 21083709.77 21083709.96 0.0262 0.0049

Saturn 53013-05-19 02:53 G 21083798.54 21083798.62 21083798.72 0.0262 0.0229

Jupiter 53016-12-28 10:19 G 21085117.75 21085117.93 21085118.11 0.0504 0.0084

Mars 53019-10-07 14:53 G 21086131.09 21086131.12 21086131.14 0.1775 0.1733

Moon 53020-01-04 19:55 G 21086220.23 21086220.33 21086220.42 0.2673 0.1301

Earth 53020-01-04 20:10 G 21086220.25 21086220.34 21086220.44 0.2668 0.1185 *

Moon 53022-07-11 15:36 G 21087139.00 21087139.15 21087139.31 0.2667 0.0616

Earth 53022-07-11 17:17 G 21087139.07 21087139.22 21087139.38 0.2666 0.0765 *

Jupiter 53022-08-31 04:34 G 21087189.57 21087189.69 21087189.82 0.0523 0.0051

Venus 53024-11-01 14:38 G 21087983.02 21087983.11 21087983.20 0.3686 0.1572

Saturn 53027-09-20 10:05 G 21089035.81 21089035.92 21089036.03 0.0299 0.0161

Saturn 53027-12-17 22:34 G 21089124.31 21089124.44 21089124.57 0.0299 0.0022

Saturn 53028-03-15 11:02 G 21089212.86 21089212.96 21089213.05 0.0299 0.0201

Jupiter 53028-10-16 07:55 G 21089427.68 21089427.83 21089427.98 0.0503 0.0288

Venus 53030-05-18 05:46 G 21090006.64 21090006.74 21090006.84 0.3686 0.0749

Mars 53031-02-02 10:19 G 21090266.92 21090266.93 21090266.94 0.1796 0.1780

Mars 53031-11-30 20:24 G 21090568.26 21090568.35 21090568.44 0.1736 0.1426

Moon 53033-01-06 13:55 G 21090970.97 21090971.08 21090971.19 0.2673 0.0070

Earth 53033-01-06 13:55 G 21090970.97 21090971.08 21090971.19 0.2666 0.0086 *

Jupiter 53034-06-19 09:07 G 21091499.75 21091499.88 21091500.00 0.0523 0.0112

Jupiter 53034-09-16 13:55 G 21091589.07 21091589.08 21091589.09 0.0520 0.0517

Venus 53035-12-01 20:38 G 21092030.31 21092030.36 21092030.42 0.3685 0.3043

Venus 53038-09-06 00:29 G 21093039.40 21093039.52 21093039.65 0.3684 0.2336

Mars 53040-06-24 19:55 G 21093697.22 21093697.33 21093697.44 0.1789 0.0663

Jupiter 53040-08-04 05:17 G 21093737.69 21093737.72 21093737.76 0.0502 0.0489

Jupiter 53040-11-02 16:34 G 21093828.07 21093828.19 21093828.32 0.0505 0.0375

Mars 53041-04-21 19:41 G 21093998.16 21093998.32 21093998.48 0.1744 0.0357

Saturn 53042-04-11 07:55 G 21094352.71 21094352.83 21094352.97 0.0262 0.0190

Saturn 53042-07-09 04:34 G 21094441.50 21094441.69 21094441.88 0.0262 0.0013

Saturn 53042-10-06 00:58 G 21094530.41 21094530.54 21094530.70 0.0262 0.0168

Uranus 53045-04-21 04:34 G 21095458.64 21095458.69 21095458.76 0.0139 0.0122

Uranus 53045-07-18 07:55 G 21095546.75 21095546.83 21095546.92 0.0139 0.0102

Uranus 53045-10-14 11:17 G 21095634.86 21095634.97 21095635.08 0.0139 0.0081

Earth 53046-01-09 07:12 G 21095721.71 21095721.80 21095721.90 0.2665 0.1207

Moon 53046-01-09 07:55 G 21095721.73 21095721.83 21095721.92 0.2670 0.1265 *

Uranus 53046-01-10 14:24 G 21095722.99 21095723.10 21095723.23 0.0140 0.0061

Jupiter 53046-04-07 12:58 G 21095809.93 21095810.04 21095810.15 0.0524 0.0278

Uranus 53046-04-08 17:46 G 21095811.12 21095811.24 21095811.37 0.0140 0.0040

Jupiter 53046-07-05 18:00 G 21095899.16 21095899.25 21095899.34 0.0521 0.0357

Uranus 53046-07-05 21:07 G 21095899.25 21095899.38 21095899.51 0.0140 0.0019 *

Uranus 53046-10-02 00:29 G 21095987.39 21095987.52 21095987.65 0.0140 0.0003

Uranus 53046-12-29 03:36 G 21096075.53 21096075.65 21096075.78 0.0140 0.0024

Uranus 53047-03-27 06:58 G 21096163.67 21096163.79 21096163.92 0.0140 0.0044

Uranus 53047-06-23 10:05 G 21096251.81 21096251.92 21096252.04 0.0140 0.0065

Uranus 53047-09-19 13:26 G 21096339.96 21096340.06 21096340.17 0.0140 0.0086

Uranus 53047-12-16 16:48 G 21096428.12 21096428.20 21096428.29 0.0140 0.0107

Uranus 53048-03-13 19:55 G 21096516.29 21096516.33 21096516.39 0.0140 0.0128

Mars 53049-11-15 05:31 G 21097127.61 21097127.73 21097127.84 0.1782 0.0460

Jupiter 53052-08-21 13:12 G 21098137.88 21098138.05 21098138.23 0.0504 0.0158

Moon 53053-01-02 06:43 G 21098271.73 21098271.78 21098271.84 0.2671 0.2302

Earth 53053-01-02 07:26 G 21098271.75 21098271.81 21098271.87 0.2669 0.2163 *

Moon 53055-07-09 14:53 G 21099189.99 21099190.12 21099190.25 0.2661 0.1610

Earth 53055-07-09 16:19 G 21099190.05 21099190.18 21099190.32 0.2665 0.1401 *

Saturn 53057-02-06 12:00 G 21099767.92 21099768.00 21099768.10 0.0299 0.0214

Saturn 53057-05-06 00:43 G 21099856.40 21099856.53 21099856.66 0.0299 0.0032

Saturn 53057-08-02 12:58 G 21099944.93 21099945.04 21099945.16 0.0299 0.0149

Jupiter 53058-01-24 17:31 G 21100120.16 21100120.23 21100120.30 0.0525 0.0434

Jupiter 53058-04-23 22:48 G 21100209.33 21100209.45 21100209.56 0.0522 0.0207

Earth 53059-01-12 00:43 G 21100472.48 21100472.53 21100472.58 0.2664 0.2369

Moon 53059-01-12 01:26 G 21100472.52 21100472.56 21100472.60 0.2662 0.2440 *

Mars 53059-04-07 14:53 G 21100558.07 21100558.12 21100558.17 0.1775 0.1572

Jupiter 53064-06-09 08:38 G 21102447.68 21102447.86 21102448.05 0.0503 0.0078

Moon 53066-01-05 00:43 G 21103022.43 21103022.53 21103022.63 0.2673 0.0947

Earth 53066-01-05 00:58 G 21103022.44 21103022.54 21103022.65 0.2667 0.0958 *

Moon 53068-07-11 22:34 G 21103941.29 21103941.44 21103941.58 0.2669 0.1053

Earth 53068-07-12 00:14 G 21103941.37 21103941.51 21103941.65 0.2666 0.1245 *

Jupiter 53070-02-10 03:36 G 21104519.53 21104519.65 21104519.78 0.0523 0.0063

Mars 53071-05-31 20:53 G 21104995.31 21104995.37 21104995.42 0.1737 0.1632

Saturn 53071-08-29 07:26 G 21105084.75 21105084.81 21105084.90 0.0262 0.0238

Saturn 53071-11-26 04:05 G 21105173.49 21105173.67 21105173.86 0.0262 0.0061

Saturn 53072-02-23 00:43 G 21105262.36 21105262.53 21105262.70 0.0262 0.0118

Venus 53075-11-23 20:53 G 21106632.32 21106632.37 21106632.43 0.3686 0.3037

Jupiter 53076-03-28 06:00 G 21106757.60 21106757.75 21106757.90 0.0503 0.0284

Earth 53079-01-07 18:43 G 21107773.17 21107773.28 21107773.39 0.2666 0.0258

Moon 53079-01-07 18:58 G 21107773.18 21107773.29 21107773.40 0.2673 0.0232 *

Mars 53079-12-24 19:55 G 21108124.23 21108124.33 21108124.43 0.1789 0.0811

Mars 53080-10-20 20:24 G 21108425.18 21108425.35 21108425.51 0.1744 0.0121

Venus 53081-06-08 12:00 G 21108655.90 21108656.00 21108656.10 0.3686 0.0715

Jupiter 53081-11-29 08:10 G 21108829.72 21108829.84 21108829.97 0.0523 0.0096

Neptune 53085-08-19 16:34 G 21110189.11 21110189.19 21110189.29 0.0088 0.0078

Uranus 53085-08-20 09:22 G 21110189.85 21110189.89 21110189.96 0.0139 0.0133

Neptune 53085-11-15 19:55 G 21110277.22 21110277.33 21110277.47 0.0088 0.0067

Uranus 53085-11-16 17:17 G 21110278.11 21110278.22 21110278.36 0.0139 0.0103

Neptune 53086-02-11 23:31 G 21110365.34 21110365.48 21110365.65 0.0088 0.0056

Uranus 53086-02-13 01:12 G 21110366.40 21110366.55 21110366.73 0.0139 0.0073

Neptune 53086-05-11 03:07 G 21110453.48 21110453.63 21110453.82 0.0088 0.0045

Uranus 53086-05-12 09:22 G 21110454.71 21110454.89 21110455.08 0.0138 0.0042

Saturn 53086-06-26 12:14 G 21110499.99 21110500.01 21110500.04 0.0299 0.0291

Neptune 53086-08-07 06:58 G 21110541.62 21110541.79 21110541.98 0.0088 0.0033

Uranus 53086-08-08 17:17 G 21110543.03 21110543.22 21110543.42 0.0138 0.0012

Saturn 53086-09-23 00:58 G 21110588.41 21110588.54 21110588.66 0.0299 0.0110

Neptune 53086-11-03 10:34 G 21110629.76 21110629.94 21110630.14 0.0088 0.0022

Uranus 53086-11-05 01:12 G 21110631.36 21110631.55 21110631.75 0.0138 0.0018

Saturn 53086-12-20 13:12 G 21110676.93 21110677.05 21110677.18 0.0299 0.0073

Venus 53086-12-23 02:53 G 21110679.53 21110679.62 21110679.71 0.3686 0.1604

Neptune 53087-01-30 14:10 G 21110717.91 21110718.09 21110718.29 0.0088 0.0011

Uranus 53087-02-01 09:07 G 21110719.70 21110719.88 21110720.07 0.0138 0.0048

Saturn 53087-03-19 01:26 G 21110765.50 21110765.56 21110765.64 0.0299 0.0253

Neptune 53087-04-28 18:00 G 21110806.06 21110806.25 21110806.45 0.0088 0.0002

Uranus 53087-04-30 17:02 G 21110808.05 21110808.21 21110808.38 0.0138 0.0079

Neptune 53087-07-25 21:36 G 21110894.21 21110894.40 21110894.60 0.0088 0.0013

Uranus 53087-07-28 00:43 G 21110896.43 21110896.53 21110896.67 0.0138 0.0109

Neptune 53087-10-22 01:12 G 21110982.37 21110982.55 21110982.75 0.0088 0.0024

Jupiter 53088-01-15 03:36 G 21111067.61 21111067.65 21111067.70 0.0503 0.0485

Neptune 53088-01-18 04:48 G 21111070.53 21111070.70 21111070.89 0.0088 0.0036

Jupiter 53088-04-14 14:53 G 21111158.00 21111158.12 21111158.24 0.0505 0.0380

Neptune 53088-04-15 08:24 G 21111158.70 21111158.85 21111159.03 0.0088 0.0047

Neptune 53088-07-12 12:00 G 21111246.87 21111247.00 21111247.16 0.0088 0.0059

Neptune 53088-10-08 15:36 G 21111335.05 21111335.15 21111335.29 0.0088 0.0071

Neptune 53089-01-04 19:26 G 21111423.25 21111423.31 21111423.40 0.0088 0.0082

Mars 53089-05-16 05:17 G 21111554.61 21111554.72 21111554.84 0.1782 0.0317

Earth 53092-01-10 12:00 G 21112523.91 21112524.00 21112524.10 0.2665 0.1431

Moon 53092-01-10 12:43 G 21112523.94 21112524.03 21112524.12 0.2669 0.1531 *

Jupiter 53093-09-17 12:29 G 21113139.91 21113140.02 21113140.13 0.0524 0.0255

Jupiter 53093-12-15 17:31 G 21113229.15 21113229.23 21113229.32 0.0521 0.0379

Venus 53095-04-13 03:07 G 21113712.47 21113712.63 21113712.79 0.3685 0.0685

Mars 53098-10-06 14:53 G 21114985.05 21114985.12 21114985.19 0.1775 0.1417

Moon 53099-01-03 11:31 G 21115073.91 21115073.98 21115074.06 0.2672 0.1977

Earth 53099-01-03 12:14 G 21115073.94 21115074.01 21115074.08 0.2669 0.1932 *

Jupiter 53100-02-01 12:14 G 21115467.83 21115468.01 21115468.18 0.0504 0.0171

Saturn 53101-04-15 01:41 G 21115905.41 21115905.57 21115905.74 0.0262 0.0126

Moon 53101-07-10 21:22 G 21115992.25 21115992.39 21115992.54 0.2663 0.1039

Earth 53101-07-10 23:02 G 21115992.31 21115992.46 21115992.61 0.2665 0.0935 *

Saturn 53101-07-12 22:19 G 21115994.25 21115994.43 21115994.62 0.0262 0.0053

Saturn 53101-10-09 18:43 G 21116083.21 21116083.28 21116083.38 0.0262 0.0233

Earth 53105-01-13 05:31 G 21117274.71 21117274.73 21117274.75 0.2664 0.2592

Jupiter 53105-07-07 16:34 G 21117450.11 21117450.19 21117450.26 0.0525 0.0423

Jupiter 53105-10-04 21:50 G 21117539.29 21117539.41 21117539.52 0.0522 0.0217

Jupiter 53111-11-21 09:07 G 21119777.69 21119777.88 21119778.06 0.0504 0.0044

Moon 53112-01-07 05:31 G 21119824.63 21119824.73 21119824.84 0.2673 0.0819

Earth 53112-01-07 06:00 G 21119824.64 21119824.75 21119824.85 0.2667 0.0730 *

Moon 53114-07-14 05:17 G 21120743.59 21120743.72 21120743.85 0.2669 0.1524

Earth 53114-07-14 06:58 G 21120743.67 21120743.79 21120743.91 0.2666 0.1730 *

Saturn 53116-02-11 02:38 G 21121320.50 21121320.61 21121320.72 0.0299 0.0164

Saturn 53116-05-09 15:07 G 21121409.00 21121409.13 21121409.26 0.0299 0.0018

Saturn 53116-08-06 03:36 G 21121497.55 21121497.65 21121497.75 0.0299 0.0197

Jupiter 53117-07-24 02:24 G 21121849.48 21121849.60 21121849.73 0.0523 0.0068

Mars 53119-06-25 19:55 G 21122551.23 21122551.33 21122551.43 0.1789 0.0959

Pluto 53119-09-19 18:14 G 21122637.21 21122637.26 21122637.33 0.0067 0.0061

Pluto 53119-12-16 18:58 G 21122725.21 21122725.29 21122725.39 0.0068 0.0050

Pluto 53120-03-13 19:26 G 21122813.21 21122813.31 21122813.43 0.0068 0.0039

Mars 53120-04-21 20:53 G 21122852.21 21122852.37 21122852.53 0.1744 0.0110

Pluto 53120-06-09 19:55 G 21122901.22 21122901.33 21122901.47 0.0068 0.0029

Pluto 53120-09-05 20:38 G 21122989.24 21122989.36 21122989.50 0.0068 0.0018

Pluto 53120-12-02 21:22 G 21123077.26 21123077.39 21123077.53 0.0068 0.0007

Pluto 53121-02-28 22:05 G 21123165.28 21123165.42 21123165.56 0.0068 0.0004

Pluto 53121-05-27 22:34 G 21123253.31 21123253.44 21123253.58 0.0068 0.0015

Pluto 53121-08-23 23:02 G 21123341.34 21123341.46 21123341.59 0.0068 0.0026

Pluto 53121-11-19 23:31 G 21123429.38 21123429.48 21123429.61 0.0068 0.0038

Pluto 53122-02-16 00:14 G 21123517.42 21123517.51 21123517.61 0.0068 0.0049

Pluto 53122-05-15 00:43 G 21123605.48 21123605.53 21123605.61 0.0069 0.0060

Jupiter 53123-09-09 04:34 G 21124087.54 21124087.69 21124087.85 0.0503 0.0275

Earth 53125-01-08 23:31 G 21124575.37 21124575.48 21124575.58 0.2666 0.0482

Moon 53125-01-08 23:46 G 21124575.38 21124575.49 21124575.59 0.2673 0.0577 *

Mars 53128-11-15 05:17 G 21125981.61 21125981.72 21125981.84 0.1782 0.0170

Uranus 53129-02-13 08:24 G 21126071.85 21126071.85 21126071.85 0.0139 0.0139

Jupiter 53129-05-12 07:26 G 21126159.68 21126159.81 21126159.93 0.0524 0.0085

Uranus 53129-05-12 11:31 G 21126159.92 21126159.98 21126160.06 0.0139 0.0119 *

Uranus 53129-08-08 14:53 G 21126248.03 21126248.12 21126248.22 0.0139 0.0098

Mars 53129-09-11 20:10 G 21126282.30 21126282.34 21126282.39 0.1751 0.1664

Uranus 53129-11-04 18:14 G 21126336.15 21126336.26 21126336.37 0.0139 0.0077

Uranus 53130-01-31 21:36 G 21126424.28 21126424.40 21126424.52 0.0140 0.0056

Uranus 53130-04-30 00:58 G 21126512.41 21126512.54 21126512.66 0.0140 0.0036

Uranus 53130-07-27 04:05 G 21126600.54 21126600.67 21126600.80 0.0140 0.0015

Saturn 53130-09-02 01:26 G 21126637.42 21126637.56 21126637.70 0.0262 0.0174

Uranus 53130-10-23 07:26 G 21126688.68 21126688.81 21126688.94 0.0140 0.0006

Saturn 53130-11-29 21:50 G 21126726.22 21126726.41 21126726.60 0.0262 0.0004

Uranus 53131-01-19 10:48 G 21126776.82 21126776.95 21126777.08 0.0140 0.0027

Saturn 53131-02-26 18:29 G 21126815.13 21126815.27 21126815.40 0.0262 0.0183

Uranus 53131-04-17 13:55 G 21126864.96 21126865.08 21126865.21 0.0140 0.0048

Uranus 53131-07-14 17:17 G 21126953.11 21126953.22 21126953.33 0.0140 0.0069

Uranus 53131-10-10 20:38 G 21127041.26 21127041.36 21127041.46 0.0140 0.0090

Uranus 53132-01-06 23:46 G 21127129.42 21127129.49 21127129.57 0.0140 0.0111

Uranus 53132-04-04 02:53 G 21127217.59 21127217.62 21127217.67 0.0140 0.0132

Venus 53132-06-30 18:14 G 21127305.18 21127305.26 21127305.34 0.3686 0.2176

Jupiter 53135-06-28 01:55 G 21128397.53 21128397.58 21128397.64 0.0502 0.0478

Jupiter 53135-09-26 13:12 G 21128487.93 21128488.05 21128488.17 0.0505 0.0384

Earth 53138-01-11 16:48 G 21129326.12 21129326.20 21129326.29 0.2665 0.1650

Moon 53138-01-11 17:31 G 21129326.15 21129326.23 21129326.31 0.2667 0.1683 *

Venus 53138-01-14 09:22 G 21129328.79 21129328.89 21129328.99 0.3686 0.0209

Mars 53138-04-07 14:53 G 21129412.04 21129412.12 21129412.20 0.1775 0.1275

Jupiter 53141-02-28 12:00 G 21130469.88 21130470.00 21130470.11 0.0524 0.0239

Jupiter 53141-05-28 17:02 G 21130559.13 21130559.21 21130559.29 0.0521 0.0395

Venus 53143-07-31 00:14 G 21131352.44 21131352.51 21131352.58 0.3685 0.2451

Moon 53145-01-04 16:34 G 21131876.11 21131876.19 21131876.27 0.2672 0.1810

Earth 53145-01-04 17:02 G 21131876.13 21131876.21 21131876.29 0.2668 0.1696 *

Saturn 53145-06-30 02:53 G 21132052.54 21132052.62 21132052.69 0.0299 0.0241

Saturn 53145-09-26 15:22 G 21132141.01 21132141.14 21132141.27 0.0299 0.0059

Saturn 53145-12-24 03:50 G 21132229.54 21132229.66 21132229.78 0.0299 0.0121

Moon 53147-07-12 04:05 G 21132794.52 21132794.67 21132794.83 0.2665 0.0757

Earth 53147-07-12 05:46 G 21132794.59 21132794.74 21132794.90 0.2665 0.0465 *

Jupiter 53147-07-15 10:34 G 21132797.77 21132797.94 21132798.11 0.0504 0.0177

Jupiter 53152-12-17 16:05 G 21134780.09 21134780.17 21134780.26 0.0525 0.0400

Jupiter 53153-03-16 21:36 G 21134869.28 21134869.40 21134869.51 0.0522 0.0241

Moon 53158-01-07 10:34 G 21136626.83 21136626.94 21136627.05 0.2674 0.0461

Earth 53158-01-07 10:48 G 21136626.84 21136626.95 21136627.05 0.2667 0.0504 *

Mars 53158-12-24 19:55 G 21136978.24 21136978.33 21136978.42 0.1789 0.1117

Jupiter 53159-05-03 07:55 G 21137107.65 21137107.83 21137108.02 0.0504 0.0029

Mars 53159-10-21 21:36 G 21137279.24 21137279.40 21137279.56 0.1743 0.0346

Saturn 53160-01-19 22:34 G 21137369.38 21137369.44 21137369.52 0.0262 0.0241

Saturn 53160-04-17 19:12 G 21137458.11 21137458.30 21137458.48 0.0262 0.0064

Moon 53160-07-14 12:00 G 21137545.90 21137546.00 21137546.10 0.2669 0.2062

Earth 53160-07-14 13:41 G 21137545.98 21137546.07 21137546.16 0.2666 0.2203 *

Saturn 53160-07-15 15:36 G 21137546.98 21137547.15 21137547.33 0.0262 0.0115

Jupiter 53165-01-03 01:41 G 21139179.44 21139179.57 21139179.69 0.0523 0.0078

Neptune 53165-12-20 09:07 G 21139530.84 21139530.88 21139530.93 0.0089 0.0083

Neptune 53166-03-18 10:19 G 21139618.87 21139618.93 21139619.01 0.0089 0.0075

Neptune 53166-06-14 11:46 G 21139706.91 21139706.99 21139707.08 0.0089 0.0067

Neptune 53166-09-10 13:12 G 21139794.95 21139795.05 21139795.15 0.0089 0.0059

Neptune 53166-12-07 14:24 G 21139883.00 21139883.10 21139883.21 0.0089 0.0052

Neptune 53167-03-05 15:36 G 21139971.05 21139971.15 21139971.28 0.0089 0.0044

Neptune 53167-06-01 17:02 G 21140059.10 21140059.21 21140059.34 0.0089 0.0036

Neptune 53167-08-28 18:29 G 21140147.15 21140147.27 21140147.40 0.0089 0.0028

Neptune 53167-11-24 19:41 G 21140235.20 21140235.32 21140235.45 0.0089 0.0020

Neptune 53168-02-20 21:07 G 21140323.25 21140323.38 21140323.51 0.0089 0.0012

Mars 53168-05-16 05:17 G 21140408.61 21140408.72 21140408.84 0.1782 0.0046

Neptune 53168-05-18 22:19 G 21140411.30 21140411.43 21140411.57 0.0089 0.0005

Neptune 53168-08-14 23:46 G 21140499.36 21140499.49 21140499.62 0.0089 0.0003

Neptune 53168-11-11 00:58 G 21140587.41 21140587.54 21140587.67 0.0089 0.0011

Neptune 53169-02-07 02:10 G 21140675.47 21140675.59 21140675.72 0.0089 0.0019

Mars 53169-03-12 20:53 G 21140709.28 21140709.37 21140709.46 0.1751 0.1426

Neptune 53169-05-06 03:22 G 21140763.52 21140763.64 21140763.78 0.0089 0.0027

Neptune 53169-08-02 04:48 G 21140851.58 21140851.70 21140851.82 0.0089 0.0034

Uranus 53169-09-10 17:17 G 21140891.15 21140891.22 21140891.33 0.0139 0.0123

Neptune 53169-10-29 06:00 G 21140939.64 21140939.75 21140939.87 0.0089 0.0042

Uranus 53169-12-08 01:12 G 21140979.42 21140979.55 21140979.71 0.0139 0.0093

Neptune 53170-01-25 07:12 G 21141027.70 21141027.80 21141027.92 0.0089 0.0050

Uranus 53170-03-06 09:07 G 21141067.72 21141067.88 21141068.07 0.0139 0.0063

Neptune 53170-04-23 08:24 G 21141115.76 21141115.85 21141115.96 0.0089 0.0058

Uranus 53170-06-02 17:17 G 21141156.03 21141156.22 21141156.41 0.0138 0.0032

Neptune 53170-07-20 09:50 G 21141203.83 21141203.91 21141204.00 0.0089 0.0065

Uranus 53170-08-30 01:12 G 21141244.36 21141244.55 21141244.75 0.0138 0.0004

Neptune 53170-10-16 11:02 G 21141291.90 21141291.96 21141292.04 0.0089 0.0073

Uranus 53170-11-26 09:22 G 21141332.69 21141332.89 21141333.08 0.0138 0.0029

Earth 53171-01-10 04:19 G 21141377.57 21141377.68 21141377.78 0.2666 0.0708

Moon 53171-01-10 04:34 G 21141377.59 21141377.69 21141377.79 0.2672 0.0683 *

Neptune 53171-01-12 12:14 G 21141379.97 21141380.01 21141380.08 0.0089 0.0081

Jupiter 53171-02-19 04:48 G 21141417.54 21141417.70 21141417.87 0.0503 0.0240

Uranus 53171-02-22 17:02 G 21141421.04 21141421.21 21141421.39 0.0138 0.0059

Neptune 53171-04-10 13:41 G 21141468.06 21141468.07 21141468.09 0.0089 0.0088

Uranus 53171-05-22 00:58 G 21141509.40 21141509.54 21141509.70 0.0138 0.0089

Uranus 53171-08-18 08:53 G 21141597.78 21141597.87 21141597.98 0.0138 0.0119

Saturn 53175-02-13 17:02 G 21142873.09 21142873.21 21142873.33 0.0299 0.0117

Saturn 53175-05-13 05:31 G 21142961.60 21142961.73 21142961.86 0.0299 0.0064

Saturn 53175-08-09 17:46 G 21143050.17 21143050.24 21143050.32 0.0299 0.0244

Jupiter 53176-10-22 06:14 G 21143489.63 21143489.76 21143489.89 0.0524 0.0076

Mars 53177-10-06 14:53 G 21143839.03 21143839.12 21143839.21 0.1775 0.1119

Earth 53180-07-09 05:02 G 21144845.68 21144845.71 21144845.74 0.2664 0.2591

Jupiter 53182-12-08 00:43 G 21145727.47 21145727.53 21145727.60 0.0502 0.0467

Jupiter 53183-03-08 11:46 G 21145817.88 21145817.99 21145818.11 0.0505 0.0395

Venus 53183-07-23 00:29 G 21145954.51 21145954.52 21145954.53 0.3686 0.3643

Earth 53184-01-12 21:36 G 21146128.33 21146128.40 21146128.48 0.2665 0.1873

Moon 53184-01-12 22:19 G 21146128.36 21146128.43 21146128.50 0.2665 0.2021 *

Jupiter 53188-08-10 11:02 G 21147799.84 21147799.96 21147800.07 0.0525 0.0229

Jupiter 53188-11-07 16:05 G 21147889.09 21147889.17 21147889.25 0.0522 0.0407

Venus 53189-02-04 15:36 G 21147978.05 21147978.15 21147978.24 0.3686 0.1321

Saturn 53189-09-04 18:43 G 21148190.11 21148190.28 21148190.45 0.0262 0.0111

Saturn 53189-12-02 15:22 G 21148278.96 21148279.14 21148279.32 0.0262 0.0068

Saturn 53190-03-01 12:00 G 21148367.94 21148368.00 21148368.06 0.0262 0.0247

Moon 53191-01-05 21:22 G 21148678.30 21148678.39 21148678.48 0.2672 0.1524

Earth 53191-01-05 21:50 G 21148678.32 21148678.41 21148678.50 0.2668 0.1466 *

Moon 53193-07-12 10:34 G 21149596.79 21149596.94 21149597.10 0.2666 0.0115

Earth 53193-07-12 12:29 G 21149596.86 21149597.02 21149597.18 0.2665 0.0033 *

Venus 53194-08-21 06:29 G 21150001.68 21150001.77 21150001.87 0.3686 0.1009

Jupiter 53194-12-25 08:53 G 21150127.70 21150127.87 21150128.04 0.0504 0.0183

Mars 53198-06-24 19:55 G 21151405.24 21151405.33 21151405.41 0.1789 0.1259

Mars 53199-04-21 22:05 G 21151706.26 21151706.42 21151706.57 0.1744 0.0573

Venus 53200-03-05 21:36 G 21152025.35 21152025.40 21152025.44 0.3685 0.3308

Jupiter 53200-05-29 15:22 G 21152110.06 21152110.14 21152110.23 0.0525 0.0385

Jupiter 53200-08-26 20:38 G 21152199.25 21152199.36 21152199.47 0.0522 0.0256

Venus 53202-12-09 20:38 G 21153034.25 21153034.36 21153034.48 0.3685 0.2550

Moon 53204-01-08 15:36 G 21153429.04 21153429.15 21153429.26 0.2674 0.0291

Earth 53204-01-08 15:36 G 21153429.04 21153429.15 21153429.26 0.2667 0.0273 *

Saturn 53204-07-02 17:17 G 21153605.13 21153605.22 21153605.33 0.0299 0.0191

Saturn 53204-09-29 06:00 G 21153693.62 21153693.75 21153693.88 0.0299 0.0010

Saturn 53204-12-26 18:14 G 21153782.16 21153782.26 21153782.37 0.0299 0.0171

Pluto 53206-04-12 18:29 G 21154254.26 21154254.27 21154254.31 0.0077 0.0076

Pluto 53206-07-09 20:38 G 21154342.25 21154342.36 21154342.51 0.0077 0.0055

Moon 53206-07-15 19:12 G 21154348.24 21154348.30 21154348.35 0.2670 0.2479

Pluto 53206-10-05 23:02 G 21154430.31 21154430.46 21154430.64 0.0077 0.0034

Jupiter 53206-10-13 06:14 G 21154437.58 21154437.76 21154437.95 0.0504 0.0024

Pluto 53207-01-02 01:41 G 21154518.39 21154518.57 21154518.76 0.0076 0.0012

Pluto 53207-03-31 04:05 G 21154606.48 21154606.67 21154606.85 0.0076 0.0009

Pluto 53207-06-27 06:00 G 21154694.59 21154694.75 21154694.94 0.0076 0.0030

Pluto 53207-09-23 08:38 G 21154782.72 21154782.86 21154783.00 0.0076 0.0050

Mars 53207-11-15 05:17 G 21154835.60 21154835.72 21154835.84 0.1782 0.0142

Pluto 53207-12-20 10:34 G 21154870.89 21154870.94 21154871.02 0.0076 0.0071

Mars 53208-09-10 21:36 G 21155136.28 21155136.40 21155136.52 0.1750 0.1180

Jupiter 53212-06-15 01:12 G 21156509.43 21156509.55 21156509.68 0.0523 0.0100

Uranus 53213-03-05 15:36 G 21156773.12 21156773.15 21156773.19 0.0139 0.0134

Uranus 53213-06-01 18:43 G 21156861.21 21156861.28 21156861.36 0.0139 0.0113

Uranus 53213-08-28 22:05 G 21156949.33 21156949.42 21156949.52 0.0139 0.0093

Uranus 53213-11-25 01:26 G 21157037.45 21157037.56 21157037.68 0.0139 0.0072

Uranus 53214-02-21 04:48 G 21157125.58 21157125.70 21157125.82 0.0140 0.0051

Uranus 53214-05-20 08:10 G 21157213.71 21157213.84 21157213.97 0.0140 0.0030

Uranus 53214-08-16 11:17 G 21157301.84 21157301.97 21157302.11 0.0140 0.0011

Uranus 53214-11-12 14:38 G 21157389.98 21157390.11 21157390.24 0.0140 0.0011

Uranus 53215-02-08 18:00 G 21157478.12 21157478.25 21157478.38 0.0140 0.0032

Uranus 53215-05-07 21:07 G 21157566.26 21157566.38 21157566.51 0.0140 0.0053

Uranus 53215-08-04 00:29 G 21157654.41 21157654.52 21157654.63 0.0140 0.0074

Uranus 53215-10-31 03:50 G 21157742.56 21157742.66 21157742.75 0.0140 0.0095

Uranus 53216-01-27 06:58 G 21157830.72 21157830.79 21157830.87 0.0140 0.0116

Uranus 53216-04-24 10:05 G 21157918.90 21157918.92 21157918.96 0.0140 0.0137

Earth 53217-01-10 08:53 G 21158179.77 21158179.87 21158179.98 0.2666 0.0931

Moon 53217-01-10 09:22 G 21158179.79 21158179.89 21158179.99 0.2671 0.1038 *

Mars 53217-04-06 14:53 G 21158266.02 21158266.12 21158266.22 0.1776 0.0956

Jupiter 53218-08-01 03:50 G 21158747.49 21158747.66 21158747.82 0.0503 0.0227

Saturn 53219-01-22 16:05 G 21158922.03 21158922.17 21158922.30 0.0262 0.0180

Saturn 53219-04-21 12:29 G 21159010.83 21159011.02 21159011.21 0.0262 0.0002

Saturn 53219-07-19 09:07 G 21159099.74 21159099.88 21159100.02 0.0262 0.0178

Moon 53224-01-04 08:24 G 21160729.82 21160729.85 21160729.87 0.2671 0.2595

Earth 53224-01-04 08:53 G 21160729.83 21160729.87 21160729.92 0.2669 0.2454 *

Jupiter 53224-04-03 05:17 G 21160819.60 21160819.72 21160819.85 0.0523 0.0065

Moon 53226-07-10 10:05 G 21161647.84 21161647.92 21161648.01 0.2661 0.2225

Earth 53226-07-10 11:46 G 21161647.89 21161647.99 21161648.08 0.2664 0.2126 *

Earth 53230-01-13 02:24 G 21162930.53 21162930.60 21162930.67 0.2665 0.2097

Moon 53230-01-13 03:07 G 21162930.57 21162930.63 21162930.69 0.2665 0.2122 *

Jupiter 53230-05-20 00:58 G 21163057.45 21163057.54 21163057.63 0.0502 0.0434

Jupiter 53230-08-18 12:00 G 21163147.91 21163148.00 21163148.10 0.0505 0.0431

Saturn 53233-11-19 18:58 G 21164337.22 21164337.29 21164337.36 0.0299 0.0248

Saturn 53234-02-16 07:41 G 21164425.69 21164425.82 21164425.94 0.0299 0.0067

Saturn 53234-05-15 20:10 G 21164514.22 21164514.34 21164514.46 0.0299 0.0114

Saturn 53234-08-12 08:10 G 21164602.83 21164602.84 21164602.87 0.0299 0.0293

Jupiter 53236-01-21 09:50 G 21165129.79 21165129.91 21165130.02 0.0524 0.0220

Jupiter 53236-04-19 14:53 G 21165219.05 21165219.12 21165219.20 0.0522 0.0414

Moon 53237-01-06 02:10 G 21165480.50 21165480.59 21165480.69 0.2673 0.1290

Earth 53237-01-06 02:38 G 21165480.52 21165480.61 21165480.71 0.2668 0.1236 *

Mars 53237-12-23 19:55 G 21165832.26 21165832.33 21165832.40 0.1789 0.1411

Mars 53238-10-20 22:48 G 21166133.30 21166133.45 21166133.59 0.1743 0.0812

Moon 53239-07-13 17:31 G 21166399.07 21166399.23 21166399.39 0.2666 0.0171

Earth 53239-07-13 19:12 G 21166399.15 21166399.30 21166399.46 0.2665 0.0485 *

Venus 53240-02-26 21:50 G 21166627.34 21166627.41 21166627.47 0.3686 0.2783

Jupiter 53242-06-06 07:41 G 21167457.65 21167457.82 21167457.99 0.0504 0.0194

Venus 53245-09-11 12:43 G 21168650.93 21168651.03 21168651.13 0.3686 0.0468

Mars 53247-05-16 05:17 G 21169262.61 21169262.72 21169262.84 0.1782 0.0302

Jupiter 53247-11-09 14:24 G 21169440.01 21169440.10 21169440.19 0.0525 0.0376

Jupiter 53248-02-06 19:41 G 21169529.21 21169529.32 21169529.43 0.0523 0.0266

Mars 53248-03-11 22:05 G 21169563.28 21169563.42 21169563.55 0.1751 0.0974

Saturn 53248-06-10 15:50 G 21169654.07 21169654.16 21169654.26 0.0263 0.0225

Saturn 53248-09-07 12:14 G 21169742.83 21169743.01 21169743.20 0.0262 0.0047

Saturn 53248-12-05 08:53 G 21169831.71 21169831.87 21169832.04 0.0262 0.0132

Moon 53250-01-08 20:24 G 21170231.24 21170231.35 21170231.46 0.2674 0.0025

Earth 53250-01-08 20:24 G 21170231.24 21170231.35 21170231.46 0.2667 0.0105 *

Neptune 53250-02-18 10:34 G 21170271.91 21170271.94 21170272.01 0.0088 0.0086

Neptune 53250-05-17 14:10 G 21170360.00 21170360.09 21170360.21 0.0088 0.0075

Neptune 53250-08-13 17:46 G 21170448.12 21170448.24 21170448.39 0.0088 0.0064

Neptune 53250-11-09 21:50 G 21170536.25 21170536.41 21170536.56 0.0088 0.0052

Neptune 53251-02-06 01:12 G 21170624.38 21170624.55 21170624.73 0.0088 0.0041

Venus 53251-03-28 03:50 G 21170674.57 21170674.66 21170674.74 0.3685 0.1859

Neptune 53251-05-05 04:48 G 21170712.52 21170712.70 21170712.89 0.0088 0.0029

Neptune 53251-08-01 08:24 G 21170800.67 21170800.85 21170801.05 0.0088 0.0018

Neptune 53251-10-28 12:14 G 21170888.81 21170889.01 21170889.21 0.0088 0.0007

Neptune 53252-01-24 15:50 G 21170976.97 21170977.16 21170977.36 0.0088 0.0005

Neptune 53252-04-21 19:26 G 21171065.12 21171065.31 21171065.51 0.0088 0.0016

Neptune 53252-07-18 23:02 G 21171153.28 21171153.46 21171153.65 0.0088 0.0028

Neptune 53252-10-15 02:24 G 21171241.44 21171241.60 21171241.79 0.0088 0.0040

Neptune 53253-01-11 06:14 G 21171329.61 21171329.76 21171329.93 0.0088 0.0051

Neptune 53253-04-09 09:36 G 21171417.79 21171417.90 21171418.06 0.0088 0.0063

Neptune 53253-07-06 13:26 G 21171505.97 21171506.06 21171506.19 0.0088 0.0074

Uranus 53253-10-01 00:58 G 21171592.43 21171592.54 21171592.65 0.0139 0.0114

Neptune 53253-10-02 17:31 G 21171594.18 21171594.23 21171594.28 0.0088 0.0085

Uranus 53253-12-28 08:53 G 21171680.72 21171680.87 21171681.02 0.0139 0.0084

Jupiter 53254-03-25 04:48 G 21171767.51 21171767.70 21171767.88 0.0503 0.0020

Uranus 53254-03-26 16:48 G 21171769.02 21171769.20 21171769.38 0.0139 0.0054

Uranus 53254-06-23 00:43 G 21171857.34 21171857.53 21171857.72 0.0138 0.0023

Uranus 53254-09-19 08:38 G 21171945.66 21171945.86 21171946.06 0.0138 0.0007

Uranus 53254-12-16 16:34 G 21172034.00 21172034.19 21172034.38 0.0138 0.0037

Uranus 53255-03-15 00:29 G 21172122.35 21172122.52 21172122.69 0.0138 0.0067

Uranus 53255-06-11 08:24 G 21172210.72 21172210.85 21172210.99 0.0138 0.0097

Uranus 53255-09-07 16:19 G 21172299.11 21172299.18 21172299.26 0.0138 0.0128

Mars 53256-10-05 14:38 G 21172693.01 21172693.11 21172693.22 0.1775 0.0824

Venus 53259-07-16 23:31 G 21173707.32 21173707.48 21173707.65 0.3685 0.0524

Jupiter 53259-11-26 00:29 G 21173839.39 21173839.52 21173839.64 0.0523 0.0113

Earth 53263-01-11 13:41 G 21174981.98 21174982.07 21174982.17 0.2666 0.1158

Moon 53263-01-11 14:24 G 21174982.00 21174982.10 21174982.20 0.2669 0.1191 *

Saturn 53263-07-06 08:10 G 21175157.73 21175157.84 21175157.96 0.0298 0.0137

Saturn 53263-10-02 20:38 G 21175246.23 21175246.36 21175246.49 0.0299 0.0045

Saturn 53263-12-30 09:07 G 21175334.79 21175334.88 21175334.96 0.0299 0.0223

Jupiter 53266-01-11 02:10 G 21176077.42 21176077.59 21176077.75 0.0503 0.0222

Moon 53270-01-04 13:12 G 21177531.99 21177532.05 21177532.10 0.2671 0.2261

Earth 53270-01-04 13:55 G 21177532.02 21177532.08 21177532.13 0.2669 0.2222 *

Jupiter 53271-09-14 04:48 G 21178149.58 21178149.70 21178149.83 0.0523 0.0045

Moon 53272-07-10 16:34 G 21178450.08 21178450.19 21178450.30 0.2663 0.1888

Earth 53272-07-10 18:14 G 21178450.14 21178450.26 21178450.39 0.2664 0.1667 *

Earth 53276-01-14 07:12 G 21179732.75 21179732.80 21179732.85 0.2665 0.2320

Moon 53276-01-14 07:55 G 21179732.79 21179732.83 21179732.87 0.2665 0.2470 *

Mars 53277-06-23 19:55 G 21180259.27 21180259.33 21180259.38 0.1789 0.1566

Jupiter 53277-10-29 23:31 G 21180387.39 21180387.48 21180387.58 0.0502 0.0424

Saturn 53278-01-25 09:36 G 21180474.73 21180474.90 21180475.07 0.0262 0.0115

Jupiter 53278-01-28 10:48 G 21180477.87 21180477.95 21180478.04 0.0505 0.0442

Mars 53278-04-20 23:17 G 21180560.34 21180560.47 21180560.60 0.1743 0.1038

Saturn 53278-04-24 06:14 G 21180563.57 21180563.76 21180563.94 0.0262 0.0064

Saturn 53278-07-22 02:38 G 21180652.56 21180652.61 21180652.69 0.0262 0.0244

Moon 53283-01-07 07:12 G 21182282.70 21182282.80 21182282.90 0.2674 0.1078

Earth 53283-01-07 07:26 G 21182282.71 21182282.81 21182282.91 0.2668 0.1007 *

Jupiter 53283-07-03 08:53 G 21182459.75 21182459.87 21182459.99 0.0524 0.0210

Jupiter 53283-09-30 13:55 G 21182549.01 21182549.08 21182549.15 0.0521 0.0424

Moon 53285-07-14 00:14 G 21183201.36 21183201.51 21183201.66 0.2667 0.0873

Earth 53285-07-14 01:55 G 21183201.43 21183201.58 21183201.73 0.2666 0.0959 *

Mars 53286-11-14 05:17 G 21183689.61 21183689.72 21183689.83 0.1782 0.0448

Mars 53287-09-10 22:48 G 21183990.30 21183990.45 21183990.59 0.1751 0.0726

Jupiter 53289-11-16 07:41 G 21184787.65 21184787.82 21184787.99 0.0504 0.0226

Saturn 53292-11-22 10:05 G 21185889.82 21185889.92 21185890.02 0.0298 0.0193

Saturn 53293-02-18 22:34 G 21185978.31 21185978.44 21185978.57 0.0299 0.0012

Saturn 53293-05-18 10:48 G 21186066.85 21186066.95 21186067.06 0.0299 0.0168

Jupiter 53295-04-21 13:12 G 21186769.96 21186770.05 21186770.14 0.0525 0.0370

Jupiter 53295-07-19 18:29 G 21186859.17 21186859.27 21186859.38 0.0522 0.0272

Moon 53296-01-10 01:12 G 21187033.44 21187033.55 21187033.66 0.2673 0.0210

Earth 53296-01-10 00:58 G 21187033.44 21187033.54 21187033.65 0.2667 0.0221 *

Mars 53296-04-05 14:53 G 21187120.01 21187120.12 21187120.23 0.1775 0.0661

Venus 53296-10-02 18:58 G 21187300.21 21187300.29 21187300.38 0.3686 0.1926

Uranus 53297-03-25 22:34 G 21187474.40 21187474.44 21187474.50 0.0139 0.0129

Uranus 53297-06-22 01:55 G 21187562.51 21187562.58 21187562.67 0.0139 0.0108

Uranus 53297-09-18 05:17 G 21187650.62 21187650.72 21187650.82 0.0139 0.0088

Uranus 53297-12-15 08:24 G 21187738.75 21187738.85 21187738.97 0.0139 0.0068

Uranus 53298-03-13 11:46 G 21187826.87 21187826.99 21187827.12 0.0139 0.0047

Uranus 53298-06-09 15:07 G 21187915.00 21187915.13 21187915.26 0.0140 0.0026

Uranus 53298-09-05 18:29 G 21188003.14 21188003.27 21188003.40 0.0140 0.0005

Uranus 53298-12-02 21:50 G 21188091.28 21188091.41 21188091.54 0.0140 0.0016

Uranus 53299-03-01 00:58 G 21188179.42 21188179.54 21188179.67 0.0140 0.0037

Uranus 53299-05-28 04:19 G 21188267.56 21188267.68 21188267.80 0.0140 0.0057

Uranus 53299-08-24 07:41 G 21188355.71 21188355.82 21188355.92 0.0140 0.0078

Uranus 53299-11-20 10:48 G 21188443.86 21188443.95 21188444.04 0.0140 0.0099

Uranus 53300-02-16 13:55 G 21188532.02 21188532.08 21188532.15 0.0140 0.0120

Jupiter 53301-09-05 03:22 G 21189097.45 21189097.64 21189097.82 0.0503 0.0008

Venus 53302-04-19 10:05 G 21189323.82 21189323.92 21189324.02 0.3686 0.0404

Mars 53305-08-28 00:14 G 21190550.51 21190550.51 21190550.52 0.1768 0.1759

Jupiter 53307-05-08 23:17 G 21191169.34 21191169.47 21191169.59 0.0523 0.0119

Saturn 53307-06-15 09:36 G 21191206.76 21191206.90 21191207.05 0.0263 0.0159

Saturn 53307-09-12 06:14 G 21191295.57 21191295.76 21191295.95 0.0263 0.0020

Venus 53307-11-03 00:58 G 21191347.48 21191347.54 21191347.61 0.3685 0.2703

Saturn 53307-12-10 02:38 G 21191384.50 21191384.61 21191384.74 0.0263 0.0201

Earth 53309-01-12 18:29 G 21191784.18 21191784.27 21191784.37 0.2665 0.1375

Moon 53309-01-12 19:12 G 21191784.21 21191784.30 21191784.39 0.2668 0.1481 *

Jupiter 53313-06-24 00:29 G 21193407.35 21193407.52 21193407.68 0.0502 0.0217

Moon 53316-01-06 18:00 G 21194334.19 21194334.25 21194334.31 0.2671 0.2129

Earth 53316-01-06 18:43 G 21194334.21 21194334.28 21194334.35 0.2669 0.1985 *

Venus 53316-02-22 02:24 G 21194380.57 21194380.60 21194380.64 0.3685 0.3586

Mars 53316-12-23 19:41 G 21194686.29 21194686.32 21194686.36 0.1789 0.1710

Mars 53317-10-21 00:00 G 21194987.39 21194987.50 21194987.61 0.1744 0.1282

Moon 53318-07-12 23:17 G 21195252.34 21195252.47 21195252.61 0.2663 0.1374

Earth 53318-07-13 01:12 G 21195252.41 21195252.55 21195252.69 0.2664 0.1193 *

Jupiter 53319-02-25 03:50 G 21195479.53 21195479.66 21195479.78 0.0524 0.0038

Earth 53322-01-15 12:00 G 21196534.97 21196535.00 21196535.03 0.2664 0.2542

Moon 53322-01-15 12:43 G 21196535.00 21196535.03 21196535.05 0.2663 0.2568 *

Saturn 53322-04-12 11:17 G 21196621.90 21196621.97 21196622.04 0.0298 0.0254

Saturn 53322-07-09 23:46 G 21196710.36 21196710.49 21196710.62 0.0298 0.0073

Saturn 53322-10-06 12:14 G 21196798.89 21196799.01 21196799.13 0.0298 0.0106

Saturn 53323-01-03 00:29 G 21196887.49 21196887.52 21196887.56 0.0299 0.0284

Jupiter 53325-04-11 21:36 G 21197717.31 21197717.40 21197717.50 0.0502 0.0422

Jupiter 53325-07-11 08:53 G 21197807.78 21197807.87 21197807.96 0.0505 0.0442

Mars 53326-05-16 05:17 G 21198116.61 21198116.72 21198116.83 0.1782 0.0594

Mars 53327-03-12 23:17 G 21198417.32 21198417.47 21198417.63 0.1750 0.0492

Moon 53329-01-08 12:00 G 21199084.90 21199085.00 21199085.11 0.2675 0.0760

Earth 53329-01-08 12:14 G 21199084.91 21199085.01 21199085.12 0.2668 0.0778 *

Neptune 53330-06-21 07:26 G 21199613.80 21199613.81 21199613.82 0.0089 0.0088

Neptune 53330-09-17 08:38 G 21199701.81 21199701.86 21199701.92 0.0089 0.0080

Jupiter 53330-12-14 08:10 G 21199789.72 21199789.84 21199789.96 0.0524 0.0194

Neptune 53330-12-14 10:05 G 21199789.85 21199789.92 21199790.00 0.0089 0.0072 *

Neptune 53331-03-12 11:17 G 21199877.89 21199877.97 21199878.07 0.0089 0.0065

Jupiter 53331-03-13 13:12 G 21199878.99 21199879.05 21199879.12 0.0521 0.0440

Neptune 53331-06-08 12:29 G 21199965.93 21199966.02 21199966.13 0.0089 0.0057

Moon 53331-07-16 07:12 G 21200003.66 21200003.80 21200003.94 0.2669 0.1192

Earth 53331-07-16 08:38 G 21200003.73 21200003.86 21200004.00 0.2666 0.1435 *

Neptune 53331-09-04 13:55 G 21200053.98 21200054.08 21200054.20 0.0089 0.0049

Neptune 53331-12-01 15:22 G 21200142.03 21200142.14 21200142.26 0.0089 0.0041

Neptune 53332-02-27 16:48 G 21200230.08 21200230.20 21200230.32 0.0089 0.0033

Neptune 53332-05-25 18:00 G 21200318.13 21200318.25 21200318.38 0.0089 0.0025

Neptune 53332-08-21 19:12 G 21200406.18 21200406.30 21200406.44 0.0089 0.0018

Neptune 53332-11-17 20:38 G 21200494.23 21200494.36 21200494.49 0.0089 0.0010

Neptune 53333-02-13 22:05 G 21200582.29 21200582.42 21200582.55 0.0089 0.0002

Neptune 53333-05-12 23:17 G 21200670.34 21200670.47 21200670.60 0.0089 0.0006

Neptune 53333-08-09 00:29 G 21200758.40 21200758.52 21200758.66 0.0089 0.0014

Neptune 53333-11-05 01:55 G 21200846.45 21200846.58 21200846.71 0.0089 0.0022

Neptune 53334-02-01 03:07 G 21200934.51 21200934.63 21200934.76 0.0089 0.0029

Neptune 53334-04-30 04:34 G 21201022.57 21201022.69 21201022.81 0.0089 0.0037

Neptune 53334-07-27 05:31 G 21201110.63 21201110.73 21201110.85 0.0089 0.0045

Neptune 53334-10-23 06:43 G 21201198.69 21201198.78 21201198.90 0.0089 0.0053

Neptune 53335-01-19 08:24 G 21201286.75 21201286.85 21201286.94 0.0089 0.0060

Neptune 53335-04-17 09:22 G 21201374.82 21201374.89 21201374.98 0.0089 0.0068

Neptune 53335-07-14 10:34 G 21201462.89 21201462.94 21201463.02 0.0089 0.0076

Mars 53335-10-06 14:53 G 21201547.01 21201547.12 21201547.23 0.1775 0.0507

Neptune 53335-10-10 12:00 G 21201550.96 21201551.00 21201551.05 0.0089 0.0083

Saturn 53336-11-01 06:58 G 21201938.71 21201938.79 21201938.90 0.0263 0.0225

Saturn 53337-01-29 03:36 G 21202027.47 21202027.65 21202027.84 0.0263 0.0047

Saturn 53337-04-28 00:14 G 21202116.35 21202116.51 21202116.68 0.0262 0.0134

Jupiter 53337-04-29 06:00 G 21202117.59 21202117.75 21202117.92 0.0504 0.0232

Uranus 53337-07-26 00:14 G 21202205.48 21202205.51 21202205.55 0.0139 0.0136

Uranus 53337-10-22 08:10 G 21202293.72 21202293.84 21202293.97 0.0139 0.0106

Uranus 53338-01-18 16:05 G 21202382.01 21202382.17 21202382.34 0.0139 0.0076

Uranus 53338-04-17 00:00 G 21202470.32 21202470.50 21202470.69 0.0139 0.0045

Uranus 53338-07-14 07:55 G 21202558.64 21202558.83 21202559.03 0.0138 0.0015

Uranus 53338-10-10 15:50 G 21202646.97 21202647.16 21202647.36 0.0138 0.0016

Uranus 53339-01-06 23:46 G 21202735.31 21202735.49 21202735.68 0.0138 0.0046

Uranus 53339-04-05 07:55 G 21202823.66 21202823.83 21202823.99 0.0138 0.0076

Uranus 53339-07-02 15:22 G 21202912.04 21202912.14 21202912.28 0.0138 0.0107

Uranus 53339-09-28 23:31 G 21203000.46 21203000.48 21203000.52 0.0138 0.0136

Earth 53342-01-11 05:46 G 21203835.64 21203835.74 21203835.85 0.2667 0.0425

Moon 53342-01-11 06:14 G 21203835.65 21203835.76 21203835.86 0.2672 0.0448 *

Jupiter 53342-10-02 12:00 G 21204099.91 21204100.00 21204100.10 0.0525 0.0363

Jupiter 53342-12-30 17:31 G 21204189.12 21204189.23 21204189.33 0.0522 0.0279

Mars 53345-02-26 00:29 G 21204977.47 21204977.52 21204977.56 0.1769 0.1604

Venus 53347-10-26 01:12 G 21205949.52 21205949.55 21205949.59 0.3686 0.3398

Jupiter 53349-02-15 02:53 G 21206427.44 21206427.62 21206427.81 0.0503 0.0019

Saturn 53351-11-27 01:26 G 21207442.45 21207442.56 21207442.68 0.0298 0.0130

Saturn 53352-02-23 13:55 G 21207530.96 21207531.08 21207531.21 0.0298 0.0052

Saturn 53352-05-22 02:24 G 21207619.52 21207619.60 21207619.68 0.0299 0.0230

Venus 53353-05-10 16:19 G 21207973.08 21207973.18 21207973.27 0.3686 0.1063

Jupiter 53354-07-21 16:19 G 21208410.18 21208410.18 21208410.18 0.0526 0.0525

Jupiter 53354-10-18 21:50 G 21208499.29 21208499.41 21208499.54 0.0523 0.0123

Earth 53355-01-13 23:17 G 21208586.39 21208586.47 21208586.56 0.2665 0.1599

Moon 53355-01-14 00:00 G 21208586.42 21208586.50 21208586.58 0.2668 0.1673 *

Mars 53357-04-21 00:29 G 21209414.44 21209414.52 21209414.60 0.1743 0.1506

Venus 53358-11-24 07:12 G 21209996.71 21209996.80 21209996.90 0.3685 0.1252

Jupiter 53360-12-03 22:48 G 21210737.29 21210737.45 21210737.62 0.0502 0.0210

Moon 53362-01-06 22:48 G 21211136.37 21211136.45 21211136.54 0.2673 0.1773

Earth 53362-01-06 23:31 G 21211136.40 21211136.48 21211136.56 0.2669 0.1755 *

Venus 53364-06-08 22:19 G 21212020.41 21212020.43 21212020.45 0.3685 0.3557

Moon 53364-07-13 06:00 G 21212054.60 21212054.75 21212054.90 0.2663 0.0919

Earth 53364-07-13 07:41 G 21212054.67 21212054.82 21212054.98 0.2664 0.0731 *

Pluto 53365-05-20 09:07 G 21212365.87 21212365.88 21212365.89 0.0067 0.0067

Pluto 53365-08-16 09:22 G 21212453.83 21212453.89 21212453.98 0.0067 0.0057

Pluto 53365-11-12 10:05 G 21212541.83 21212541.92 21212542.03 0.0068 0.0046

Mars 53365-11-14 05:17 G 21212543.61 21212543.72 21212543.83 0.1782 0.0748

Pluto 53366-02-08 10:48 G 21212629.84 21212629.95 21212630.07 0.0068 0.0035

Pluto 53366-05-07 11:31 G 21212717.85 21212717.98 21212718.11 0.0068 0.0024

Saturn 53366-06-18 04:05 G 21212759.50 21212759.67 21212759.85 0.0263 0.0087

Pluto 53366-08-03 12:00 G 21212805.87 21212806.00 21212806.14 0.0068 0.0013

Jupiter 53366-08-07 02:24 G 21212809.47 21212809.60 21212809.73 0.0524 0.0036

Mars 53366-09-10 23:46 G 21212844.33 21212844.49 21212844.65 0.1751 0.0275

Saturn 53366-09-15 00:43 G 21212848.36 21212848.53 21212848.71 0.0263 0.0093

Pluto 53366-10-30 12:43 G 21212893.89 21212894.03 21212894.17 0.0068 0.0002

Pluto 53367-01-26 13:12 G 21212981.92 21212982.05 21212982.19 0.0068 0.0009

Venus 53367-03-14 17:17 G 21213029.11 21213029.22 21213029.33 0.3685 0.2670

Pluto 53367-04-24 13:41 G 21213069.95 21213070.07 21213070.21 0.0068 0.0020

Pluto 53367-07-21 14:10 G 21213157.98 21213158.09 21213158.23 0.0068 0.0032

Pluto 53367-10-17 14:53 G 21213246.02 21213246.12 21213246.24 0.0068 0.0042

Pluto 53368-01-13 15:22 G 21213334.07 21213334.14 21213334.24 0.0068 0.0054

Pluto 53368-04-10 15:50 G 21213422.14 21213422.16 21213422.22 0.0069 0.0065

Jupiter 53372-09-21 19:55 G 21215047.23 21215047.33 21215047.43 0.0502 0.0418

Jupiter 53372-12-21 06:58 G 21215137.70 21215137.79 21215137.88 0.0504 0.0443

Moon 53375-01-09 17:02 G 21215887.10 21215887.21 21215887.31 0.2675 0.0627

Earth 53375-01-09 17:02 G 21215887.11 21215887.21 21215887.32 0.2668 0.0550 *

Mars 53375-04-06 14:53 G 21215974.00 21215974.12 21215974.23 0.1775 0.0368

Moon 53377-07-16 14:10 G 21216805.98 21216806.09 21216806.21 0.2671 0.1818

Earth 53377-07-16 15:36 G 21216806.04 21216806.15 21216806.26 0.2666 0.1919 *

Jupiter 53378-05-26 06:58 G 21217119.67 21217119.79 21217119.91 0.0525 0.0193

Jupiter 53378-08-23 12:00 G 21217208.94 21217209.00 21217209.07 0.0522 0.0443

Saturn 53381-04-15 03:22 G 21218174.54 21218174.64 21218174.74 0.0298 0.0183

Uranus 53381-04-16 06:14 G 21218175.70 21218175.76 21218175.82 0.0139 0.0122

Saturn 53381-07-12 15:50 G 21218263.03 21218263.16 21218263.29 0.0298 0.0005

Uranus 53381-07-13 09:36 G 21218263.81 21218263.90 21218263.99 0.0139 0.0102

Saturn 53381-10-09 04:05 G 21218351.57 21218351.67 21218351.78 0.0298 0.0176

Uranus 53381-10-09 12:43 G 21218351.93 21218352.03 21218352.14 0.0139 0.0081

Uranus 53382-01-05 16:05 G 21218440.05 21218440.17 21218440.29 0.0139 0.0060

Uranus 53382-04-03 19:26 G 21218528.18 21218528.31 21218528.43 0.0139 0.0040

Uranus 53382-06-30 22:34 G 21218616.31 21218616.44 21218616.57 0.0140 0.0020

Uranus 53382-09-27 01:55 G 21218704.45 21218704.58 21218704.71 0.0140 0.0003

Uranus 53382-12-24 05:17 G 21218792.59 21218792.72 21218792.85 0.0140 0.0023

Uranus 53383-03-22 08:24 G 21218880.73 21218880.85 21218880.98 0.0140 0.0044

Uranus 53383-06-18 11:46 G 21218968.88 21218968.99 21218969.11 0.0140 0.0064

Uranus 53383-09-14 14:53 G 21219057.02 21219057.12 21219057.23 0.0140 0.0085

Uranus 53383-12-11 18:00 G 21219145.18 21219145.25 21219145.35 0.0140 0.0107

Uranus 53384-03-08 21:36 G 21219233.35 21219233.40 21219233.45 0.0140 0.0126

Mars 53384-08-27 00:29 G 21219404.45 21219404.52 21219404.58 0.1769 0.1453

Jupiter 53384-10-09 03:50 G 21219447.49 21219447.66 21219447.83 0.0504 0.0229

Earth 53388-01-12 10:34 G 21220637.84 21220637.94 21220638.05 0.2666 0.0649

Moon 53388-01-12 11:02 G 21220637.86 21220637.96 21220638.07 0.2671 0.0747 *

Jupiter 53390-03-14 11:17 G 21221429.87 21221429.97 21221430.06 0.0525 0.0352

Jupiter 53390-06-11 16:34 G 21221519.09 21221519.19 21221519.30 0.0522 0.0290

Saturn 53395-11-05 01:55 G 21223491.43 21223491.58 21223491.74 0.0263 0.0150

Saturn 53396-02-01 22:34 G 21223580.25 21223580.44 21223580.63 0.0263 0.0029

Saturn 53396-04-30 19:12 G 21223669.19 21223669.30 21223669.42 0.0263 0.0210

Jupiter 53396-07-28 00:58 G 21223757.36 21223757.54 21223757.73 0.0503 0.0020

Mars 53396-10-20 01:12 G 21223841.55 21223841.55 21223841.55 0.1743 0.1742

Earth 53401-01-15 04:05 G 21225388.59 21225388.67 21225388.75 0.2665 0.1821

Moon 53401-01-15 04:48 G 21225388.62 21225388.70 21225388.77 0.2667 0.1901 *

Jupiter 53402-01-01 15:07 G 21225740.12 21225740.13 21225740.14 0.0526 0.0521

Jupiter 53402-03-31 20:38 G 21225829.24 21225829.36 21225829.48 0.0523 0.0126

Venus 53404-06-01 22:34 G 21226622.37 21226622.44 21226622.51 0.3686 0.2536

Mars 53405-05-16 05:17 G 21226970.62 21226970.72 21226970.82 0.1782 0.0900

Mars 53406-03-13 00:29 G 21227271.36 21227271.52 21227271.68 0.1750 0.0034

Moon 53408-01-09 03:50 G 21227938.57 21227938.66 21227938.75 0.2674 0.1637

Earth 53408-01-09 04:19 G 21227938.59 21227938.68 21227938.77 0.2669 0.1520 *

Jupiter 53408-05-16 21:50 G 21228067.25 21228067.41 21228067.59 0.0503 0.0193

Venus 53409-12-16 13:26 G 21228645.96 21228646.06 21228646.16 0.3686 0.0268

Moon 53410-07-15 12:43 G 21228856.88 21228857.03 21228857.19 0.2665 0.0486

Earth 53410-07-15 14:24 G 21228856.95 21228857.10 21228857.26 0.2665 0.0262 *

Saturn 53410-09-03 05:17 G 21228906.64 21228906.72 21228906.80 0.0298 0.0235

Saturn 53410-11-30 17:46 G 21228995.12 21228995.24 21228995.37 0.0298 0.0055

Saturn 53411-02-27 06:14 G 21229083.64 21229083.76 21229083.88 0.0298 0.0125

Jupiter 53414-01-18 00:58 G 21230139.42 21230139.54 21230139.67 0.0524 0.0034

Mars 53414-10-06 14:53 G 21230401.00 21230401.12 21230401.23 0.1775 0.0213

Neptune 53414-11-17 08:24 G 21230442.79 21230442.85 21230442.92 0.0088 0.0083

Neptune 53415-02-13 12:00 G 21230530.90 21230531.00 21230531.12 0.0088 0.0072

Neptune 53415-05-12 15:22 G 21230619.02 21230619.14 21230619.30 0.0088 0.0061

Venus 53415-07-02 04:34 G 21230669.61 21230669.69 21230669.77 0.3685 0.2102

Neptune 53415-08-08 18:58 G 21230707.14 21230707.29 21230707.47 0.0088 0.0050

Neptune 53415-11-04 22:34 G 21230795.28 21230795.44 21230795.63 0.0088 0.0039

Neptune 53416-02-01 02:24 G 21230883.42 21230883.60 21230883.79 0.0088 0.0027

Neptune 53416-04-29 06:00 G 21230971.56 21230971.75 21230971.95 0.0088 0.0016

Neptune 53416-07-26 09:50 G 21231059.71 21231059.91 21231060.10 0.0088 0.0004

Neptune 53416-10-22 13:12 G 21231147.86 21231148.05 21231148.25 0.0088 0.0008

Neptune 53417-01-18 17:02 G 21231236.02 21231236.21 21231236.40 0.0088 0.0019

Neptune 53417-04-16 20:24 G 21231324.18 21231324.35 21231324.55 0.0088 0.0030

Neptune 53417-07-14 00:00 G 21231412.34 21231412.50 21231412.69 0.0088 0.0042

Neptune 53417-10-10 03:50 G 21231500.51 21231500.66 21231500.82 0.0088 0.0053

Neptune 53418-01-06 07:12 G 21231588.68 21231588.80 21231588.95 0.0088 0.0065

Neptune 53418-04-04 11:02 G 21231676.87 21231676.96 21231677.07 0.0088 0.0076

Neptune 53418-07-01 14:24 G 21231765.10 21231765.10 21231765.15 0.0088 0.0088

Jupiter 53420-03-04 18:14 G 21232377.16 21232377.26 21232377.36 0.0501 0.0414

Jupiter 53420-06-03 05:02 G 21232467.63 21232467.71 21232467.80 0.0504 0.0446

Moon 53421-01-10 21:50 G 21232689.30 21232689.41 21232689.52 0.2674 0.0273

Earth 53421-01-10 21:50 G 21232689.30 21232689.41 21232689.52 0.2667 0.0323 *

Uranus 53421-08-16 07:41 G 21232906.75 21232906.82 21232906.90 0.0139 0.0127

Uranus 53421-11-12 15:36 G 21232995.02 21232995.15 21232995.29 0.0139 0.0097

Uranus 53422-02-08 23:31 G 21233083.31 21233083.48 21233083.65 0.0139 0.0067

Uranus 53422-05-08 07:26 G 21233171.63 21233171.81 21233172.00 0.0139 0.0037

Uranus 53422-08-04 15:22 G 21233259.95 21233260.14 21233260.34 0.0139 0.0007

Uranus 53422-10-31 23:17 G 21233348.28 21233348.47 21233348.67 0.0138 0.0024

Uranus 53423-01-28 07:12 G 21233436.63 21233436.80 21233436.99 0.0138 0.0054

Uranus 53423-04-26 15:07 G 21233524.98 21233525.13 21233525.29 0.0138 0.0084

Moon 53423-07-18 20:53 G 21233608.29 21233608.37 21233608.46 0.2671 0.2237

Earth 53423-07-18 22:19 G 21233608.36 21233608.43 21233608.50 0.2666 0.2398 *

Uranus 53423-07-23 23:02 G 21233613.36 21233613.46 21233613.58 0.0138 0.0115

Venus 53423-10-20 20:10 G 21233702.18 21233702.34 21233702.50 0.3685 0.0378

Mars 53424-02-27 00:29 G 21233831.44 21233831.52 21233831.59 0.1769 0.1299

Saturn 53425-03-25 02:38 G 21234223.49 21234223.61 21234223.75 0.0263 0.0188

Saturn 53425-06-21 23:17 G 21234312.28 21234312.47 21234312.66 0.0263 0.0009

Saturn 53425-09-18 19:55 G 21234401.19 21234401.33 21234401.48 0.0263 0.0172

Jupiter 53425-11-06 05:17 G 21234449.60 21234449.72 21234449.84 0.0525 0.0197

Jupiter 53426-02-03 10:19 G 21234538.87 21234538.93 21234539.00 0.0522 0.0441

Jupiter 53432-03-22 01:41 G 21236777.41 21236777.57 21236777.74 0.0503 0.0228

Earth 53434-01-13 15:22 G 21237440.04 21237440.14 21237440.25 0.2666 0.0876

Moon 53434-01-13 16:05 G 21237440.06 21237440.17 21237440.27 0.2671 0.0891 *

Jupiter 53437-08-25 09:36 G 21238759.81 21238759.90 21238759.99 0.0526 0.0356

Jupiter 53437-11-22 14:53 G 21238849.02 21238849.12 21238849.23 0.0523 0.0288

Saturn 53440-01-21 07:41 G 21239638.78 21239638.82 21239638.86 0.0297 0.0281

Saturn 53440-04-18 20:10 G 21239727.22 21239727.34 21239727.46 0.0298 0.0101

Saturn 53440-07-16 08:38 G 21239815.73 21239815.86 21239815.98 0.0298 0.0077

Saturn 53440-10-12 20:53 G 21239904.31 21239904.37 21239904.44 0.0298 0.0255

Moon 53441-01-06 14:38 G 21239990.10 21239990.11 21239990.13 0.2670 0.2620

Earth 53441-01-06 15:22 G 21239990.11 21239990.14 21239990.18 0.2670 0.2507 *

Moon 53443-07-13 12:14 G 21240908.00 21240908.01 21240908.01 0.2660 0.2656

Earth 53443-07-13 13:41 G 21240908.00 21240908.07 21240908.14 0.2663 0.2375 *

Jupiter 53444-01-08 22:34 G 21241087.25 21241087.44 21241087.62 0.0503 0.0016

Mars 53444-11-14 05:17 G 21241397.63 21241397.72 21241397.81 0.1783 0.1046

Mars 53445-09-11 01:12 G 21241698.39 21241698.55 21241698.71 0.1750 0.0211

Earth 53447-01-16 08:53 G 21242190.80 21242190.87 21242190.94 0.2665 0.2045

Moon 53447-01-16 09:36 G 21242190.84 21242190.90 21242190.96 0.2665 0.2156 *

Jupiter 53449-06-13 13:55 G 21243070.06 21243070.08 21243070.10 0.0526 0.0516

Jupiter 53449-09-10 19:26 G 21243159.19 21243159.31 21243159.44 0.0523 0.0132

Pluto 53452-03-10 08:38 G 21244070.79 21244070.86 21244070.96 0.0077 0.0067

Pluto 53452-06-06 11:02 G 21244158.82 21244158.96 21244159.12 0.0077 0.0046

Pluto 53452-09-02 13:26 G 21244246.89 21244247.06 21244247.24 0.0077 0.0025

Pluto 53452-11-29 15:50 G 21244334.98 21244335.16 21244335.35 0.0076 0.0004

Pluto 53453-02-25 18:00 G 21244423.08 21244423.25 21244423.44 0.0076 0.0018

Pluto 53453-05-24 20:10 G 21244511.19 21244511.34 21244511.51 0.0076 0.0039

Pluto 53453-08-20 22:19 G 21244599.33 21244599.43 21244599.56 0.0076 0.0060

Moon 53454-01-09 08:38 G 21244740.77 21244740.86 21244740.96 0.2674 0.1303

Earth 53454-01-09 09:07 G 21244740.78 21244740.88 21244740.98 0.2669 0.1290 *

Mars 53454-04-06 14:53 G 21244828.00 21244828.12 21244828.24 0.1776 0.0047

Saturn 53454-08-12 00:58 G 21244955.49 21244955.54 21244955.61 0.0263 0.0247

Saturn 53454-11-08 21:36 G 21245044.22 21245044.40 21245044.58 0.0263 0.0069

Mars 53455-02-01 00:29 G 21245128.45 21245128.52 21245128.59 0.1758 0.1582

Saturn 53455-02-05 18:14 G 21245133.09 21245133.26 21245133.43 0.0263 0.0112

Jupiter 53455-10-27 19:41 G 21245397.15 21245397.32 21245397.49 0.0503 0.0197

Moon 53456-07-15 19:41 G 21245659.16 21245659.32 21245659.47 0.2667 0.0136

Earth 53456-07-15 21:07 G 21245659.23 21245659.38 21245659.54 0.2665 0.0223 *

Venus 53461-01-06 19:55 G 21247295.24 21247295.33 21247295.41 0.3686 0.1681

Jupiter 53461-06-29 23:31 G 21247469.35 21247469.48 21247469.61 0.0524 0.0034

Mars 53463-08-28 00:14 G 21248258.43 21248258.51 21248258.60 0.1769 0.1152

Uranus 53465-02-08 10:19 G 21248788.91 21248788.93 21248788.95 0.0139 0.0137

Uranus 53465-05-07 13:41 G 21248877.00 21248877.07 21248877.14 0.0139 0.0117

Uranus 53465-08-03 16:48 G 21248965.11 21248965.20 21248965.30 0.0139 0.0096

Uranus 53465-10-30 20:10 G 21249053.23 21249053.34 21249053.45 0.0139 0.0075

Uranus 53466-01-26 23:31 G 21249141.36 21249141.48 21249141.60 0.0139 0.0055

Uranus 53466-04-25 02:38 G 21249229.49 21249229.61 21249229.74 0.0140 0.0034

Uranus 53466-07-22 06:00 G 21249317.62 21249317.75 21249317.88 0.0140 0.0013

Venus 53466-07-23 10:48 G 21249318.85 21249318.95 21249319.05 0.3685 0.0646

Uranus 53466-10-18 09:22 G 21249405.76 21249405.89 21249406.02 0.0140 0.0008

Earth 53467-01-12 02:38 G 21249491.50 21249491.61 21249491.72 0.2667 0.0099

Moon 53467-01-12 02:53 G 21249491.51 21249491.62 21249491.73 0.2674 0.0144 *

Uranus 53467-01-14 12:29 G 21249493.90 21249494.02 21249494.15 0.0140 0.0028

Uranus 53467-04-12 15:50 G 21249582.04 21249582.16 21249582.28 0.0140 0.0049

Uranus 53467-07-09 18:58 G 21249670.18 21249670.29 21249670.41 0.0140 0.0070

Jupiter 53467-08-15 16:48 G 21249707.09 21249707.20 21249707.30 0.0502 0.0405

Uranus 53467-10-05 22:19 G 21249758.33 21249758.43 21249758.53 0.0140 0.0091

Jupiter 53467-11-14 03:50 G 21249797.58 21249797.66 21249797.73 0.0504 0.0458

Uranus 53468-01-02 01:26 G 21249846.49 21249846.56 21249846.65 0.0140 0.0112

Uranus 53468-03-30 04:48 G 21249934.67 21249934.70 21249934.75 0.0140 0.0132

Saturn 53469-09-05 22:19 G 21250459.32 21250459.43 21250459.54 0.0298 0.0152

Saturn 53469-12-03 10:48 G 21250547.82 21250547.95 21250548.08 0.0298 0.0028

Saturn 53470-03-01 23:02 G 21250636.37 21250636.46 21250636.56 0.0298 0.0206

Venus 53472-02-06 01:55 G 21251342.52 21251342.58 21251342.63 0.3685 0.2967

Jupiter 53473-04-18 03:36 G 21251779.54 21251779.65 21251779.77 0.0525 0.0198

Jupiter 53473-07-16 08:53 G 21251868.80 21251868.87 21251868.94 0.0522 0.0439

Jupiter 53479-09-01 23:46 G 21254107.32 21254107.49 21254107.65 0.0503 0.0228

Earth 53480-01-14 20:10 G 21254242.24 21254242.34 21254242.44 0.2666 0.1097

Moon 53480-01-14 20:38 G 21254242.27 21254242.36 21254242.46 0.2671 0.1232 *

Venus 53480-05-26 22:48 G 21254375.38 21254375.45 21254375.51 0.3685 0.3371

Saturn 53484-03-27 22:34 G 21255776.27 21255776.44 21255776.61 0.0264 0.0104

Mars 53484-05-15 05:17 G 21255824.63 21255824.72 21255824.81 0.1782 0.1202

Saturn 53484-06-24 19:12 G 21255865.12 21255865.30 21255865.48 0.0263 0.0076

Saturn 53484-09-21 15:50 G 21255954.14 21255954.16 21255954.20 0.0263 0.0258

Jupiter 53485-02-04 07:41 G 21256089.73 21256089.82 21256089.91 0.0526 0.0366

Mars 53485-03-12 01:26 G 21256125.41 21256125.56 21256125.72 0.1751 0.0425

Jupiter 53485-05-04 13:12 G 21256178.94 21256179.05 21256179.16 0.0523 0.0279

Moon 53487-01-07 19:41 G 21256792.27 21256792.32 21256792.37 0.2672 0.2362

Earth 53487-01-07 20:10 G 21256792.29 21256792.34 21256792.40 0.2669 0.2273 *

Moon 53489-07-13 18:43 G 21257710.18 21257710.28 21257710.39 0.2661 0.1975

Earth 53489-07-13 20:24 G 21257710.24 21257710.35 21257710.46 0.2664 0.1913 *

Jupiter 53491-06-20 20:10 G 21258417.16 21258417.34 21258417.53 0.0502 0.0016

Earth 53493-01-16 13:41 G 21258993.02 21258993.07 21258993.13 0.2665 0.2264

Moon 53493-01-16 14:24 G 21258993.05 21258993.10 21258993.15 0.2663 0.2295 *

Mars 53493-10-05 14:38 G 21259255.00 21259255.11 21259255.23 0.1775 0.0101

Mars 53494-08-02 01:12 G 21259555.44 21259555.55 21259555.65 0.1758 0.1336

Neptune 53495-03-19 06:43 G 21259784.76 21259784.78 21259784.82 0.0089 0.0086

Neptune 53495-06-15 08:10 G 21259872.78 21259872.84 21259872.90 0.0089 0.0078

Neptune 53495-09-11 09:36 G 21259960.82 21259960.90 21259960.98 0.0089 0.0070

Neptune 53495-12-08 10:34 G 21260048.86 21260048.94 21260049.05 0.0089 0.0063

Neptune 53496-03-05 12:00 G 21260136.90 21260137.00 21260137.11 0.0089 0.0055

Neptune 53496-06-01 13:26 G 21260224.95 21260225.06 21260225.17 0.0089 0.0047

Neptune 53496-08-28 14:38 G 21260313.00 21260313.11 21260313.24 0.0089 0.0039

Neptune 53496-11-24 16:05 G 21260401.05 21260401.17 21260401.30 0.0089 0.0031

Neptune 53497-02-20 17:31 G 21260489.10 21260489.23 21260489.36 0.0089 0.0023

Jupiter 53497-02-20 17:46 G 21260489.11 21260489.24 21260489.36 0.0524 0.0124 *

Neptune 53497-05-19 18:43 G 21260577.15 21260577.28 21260577.41 0.0089 0.0016

Neptune 53497-08-15 20:10 G 21260665.21 21260665.34 21260665.47 0.0089 0.0008

Neptune 53497-11-11 21:22 G 21260753.26 21260753.39 21260753.52 0.0089 0.0002

Neptune 53498-02-07 22:48 G 21260841.32 21260841.45 21260841.58 0.0089 0.0008

Neptune 53498-05-07 00:00 G 21260929.37 21260929.50 21260929.63 0.0089 0.0016

Neptune 53498-08-03 01:12 G 21261017.43 21261017.55 21261017.68 0.0089 0.0024

Neptune 53498-10-30 02:24 G 21261105.49 21261105.60 21261105.73 0.0089 0.0032

Saturn 53499-01-24 01:12 G 21261191.45 21261191.55 21261191.65 0.0297 0.0190

Neptune 53499-01-26 03:50 G 21261193.55 21261193.66 21261193.78 0.0089 0.0039

Saturn 53499-04-22 13:41 G 21261279.94 21261280.07 21261280.20 0.0298 0.0012

Neptune 53499-04-24 05:02 G 21261281.61 21261281.71 21261281.83 0.0089 0.0047

Saturn 53499-07-20 02:10 G 21261368.48 21261368.59 21261368.69 0.0298 0.0167

Neptune 53499-07-21 06:14 G 21261369.67 21261369.76 21261369.87 0.0089 0.0055

Neptune 53499-10-17 07:26 G 21261457.73 21261457.81 21261457.92 0.0089 0.0063

Moon 53500-01-10 13:26 G 21261542.97 21261543.06 21261543.16 0.2674 0.1147

Earth 53500-01-10 13:55 G 21261542.98 21261543.08 21261543.18 0.2668 0.1057 *

Neptune 53500-01-13 08:53 G 21261545.80 21261545.87 21261545.96 0.0089 0.0070

Neptune 53500-04-11 10:05 G 21261633.87 21261633.92 21261633.99 0.0089 0.0078

Neptune 53500-07-08 11:17 G 21261721.95 21261721.97 21261722.02 0.0089 0.0086

Moon 53502-07-18 02:24 G 21262461.44 21262461.60 21262461.75 0.2668 0.0404

Earth 53502-07-18 03:50 G 21262461.51 21262461.66 21262461.82 0.2665 0.0688 *

Mars 53503-02-27 00:29 G 21262685.42 21262685.52 21262685.61 0.1769 0.0992

Jupiter 53503-04-09 16:48 G 21262727.03 21262727.20 21262727.37 0.0502 0.0208

Uranus 53505-09-06 15:36 G 21263608.06 21263608.15 21263608.27 0.0139 0.0117

Uranus 53505-12-03 23:31 G 21263696.34 21263696.48 21263696.64 0.0139 0.0087

Uranus 53506-03-02 07:26 G 21263784.64 21263784.81 21263785.00 0.0139 0.0057

Uranus 53506-05-29 15:36 G 21263872.96 21263873.15 21263873.34 0.0139 0.0026

Uranus 53506-08-25 23:31 G 21263961.29 21263961.48 21263961.68 0.0139 0.0004

Uranus 53506-11-22 07:26 G 21264049.62 21264049.81 21264050.00 0.0138 0.0034

Uranus 53507-02-18 15:22 G 21264137.97 21264138.14 21264138.31 0.0138 0.0065

Uranus 53507-05-17 23:02 G 21264226.33 21264226.46 21264226.61 0.0138 0.0095

Uranus 53507-08-14 06:58 G 21264314.72 21264314.79 21264314.88 0.0138 0.0125

Jupiter 53508-12-10 22:05 G 21264799.30 21264799.42 21264799.55 0.0524 0.0035

Venus 53512-01-30 02:10 G 21265944.54 21265944.59 21265944.64 0.3686 0.3149

Earth 53513-01-13 07:26 G 21266293.70 21266293.81 21266293.92 0.2667 0.0147

Moon 53513-01-13 07:41 G 21266293.71 21266293.82 21266293.93 0.2673 0.0229 *

Saturn 53513-08-15 21:22 G 21266508.24 21266508.39 21266508.54 0.0263 0.0160

Saturn 53513-11-12 18:00 G 21266597.06 21266597.25 21266597.44 0.0263 0.0020

Saturn 53514-02-09 14:38 G 21266686.00 21266686.11 21266686.24 0.0263 0.0201

Jupiter 53515-01-26 13:55 G 21267036.99 21267037.08 21267037.19 0.0502 0.0415

Jupiter 53515-04-27 00:58 G 21267127.46 21267127.54 21267127.63 0.0504 0.0448

Venus 53517-08-14 17:02 G 21267968.11 21267968.21 21267968.31 0.3686 0.0817

Jupiter 53520-09-29 02:10 G 21269109.47 21269109.59 21269109.71 0.0525 0.0201

Jupiter 53520-12-27 07:12 G 21269198.74 21269198.80 21269198.87 0.0522 0.0435

Venus 53523-02-28 08:10 G 21269991.75 21269991.84 21269991.93 0.3685 0.1510

Mars 53523-11-15 05:17 G 21270251.64 21270251.72 21270251.79 0.1782 0.1348

Mars 53524-09-11 02:10 G 21270552.44 21270552.59 21270552.75 0.1750 0.0671

Earth 53526-01-16 00:58 G 21271044.45 21271044.54 21271044.64 0.2666 0.1325

Moon 53526-01-16 01:41 G 21271044.47 21271044.57 21271044.66 0.2670 0.1338 *

Jupiter 53527-02-12 21:50 G 21271437.24 21271437.41 21271437.57 0.0504 0.0231

Saturn 53528-06-13 03:22 G 21271923.57 21271923.64 21271923.72 0.0298 0.0240

Saturn 53528-09-09 16:05 G 21272012.04 21272012.17 21272012.29 0.0298 0.0060

Saturn 53528-12-07 04:19 G 21272100.56 21272100.68 21272100.80 0.0298 0.0119

Saturn 53529-03-05 16:34 G 21272189.18 21272189.19 21272189.20 0.0298 0.0296

Venus 53531-06-18 13:41 G 21273023.97 21273024.07 21273024.17 0.3685 0.2853

Jupiter 53532-07-18 06:14 G 21273419.67 21273419.76 21273419.85 0.0525 0.0367

Jupiter 53532-10-15 11:31 G 21273508.88 21273508.98 21273509.09 0.0523 0.0277

Moon 53533-01-09 00:29 G 21273594.45 21273594.52 21273594.58 0.2673 0.2097

Earth 53533-01-09 00:58 G 21273594.47 21273594.54 21273594.61 0.2669 0.2044 *

Mars 53533-04-06 14:53 G 21273682.00 21273682.12 21273682.23 0.1776 0.0251

Mars 53534-02-01 01:26 G 21273982.44 21273982.56 21273982.69 0.1758 0.1123

Moon 53535-07-16 01:26 G 21274512.44 21274512.56 21274512.68 0.2663 0.1732

Earth 53535-07-16 03:07 G 21274512.49 21274512.63 21274512.76 0.2664 0.1459 *

Jupiter 53538-12-01 18:00 G 21275747.06 21275747.25 21275747.44 0.0502 0.0007

Earth 53539-01-18 18:29 G 21275795.23 21275795.27 21275795.31 0.2665 0.2486

Moon 53539-01-18 19:12 G 21275795.28 21275795.30 21275795.31 0.2662 0.2627 *

Mars 53542-08-28 00:14 G 21277112.41 21277112.51 21277112.62 0.1768 0.0847

Saturn 53543-01-02 22:34 G 21277240.32 21277240.44 21277240.57 0.0264 0.0194

Saturn 53543-04-01 19:12 G 21277329.11 21277329.30 21277329.49 0.0264 0.0014

Saturn 53543-06-29 15:50 G 21277418.02 21277418.16 21277418.31 0.0264 0.0168

Jupiter 53544-08-03 15:36 G 21277819.03 21277819.15 21277819.28 0.0524 0.0112

Moon 53546-01-11 18:29 G 21278345.17 21278345.27 21278345.37 0.2674 0.0849

Earth 53546-01-11 18:43 G 21278345.18 21278345.28 21278345.38 0.2668 0.0827 *

Moon 53548-07-18 09:07 G 21279263.73 21279263.88 21279264.02 0.2669 0.1091

Earth 53548-07-18 10:34 G 21279263.80 21279263.94 21279264.09 0.2665 0.1156 *

Uranus 53549-03-01 17:46 G 21279490.20 21279490.24 21279490.29 0.0139 0.0130

Uranus 53549-05-28 21:22 G 21279578.31 21279578.39 21279578.47 0.0139 0.0110

Uranus 53549-08-25 00:29 G 21279666.42 21279666.52 21279666.62 0.0139 0.0089

Uranus 53549-11-21 03:50 G 21279754.55 21279754.66 21279754.77 0.0139 0.0068

Uranus 53550-02-17 07:12 G 21279842.67 21279842.80 21279842.92 0.0140 0.0048

Uranus 53550-05-16 10:19 G 21279930.80 21279930.93 21279931.06 0.0140 0.0027

Uranus 53550-08-12 13:41 G 21280018.94 21280019.07 21280019.20 0.0140 0.0006

Jupiter 53550-09-19 14:38 G 21280056.94 21280057.11 21280057.28 0.0502 0.0210

Uranus 53550-11-08 17:02 G 21280107.07 21280107.21 21280107.34 0.0140 0.0015

Uranus 53551-02-04 20:10 G 21280195.21 21280195.34 21280195.47 0.0140 0.0035

Uranus 53551-05-03 23:17 G 21280283.36 21280283.47 21280283.60 0.0140 0.0057

Uranus 53551-07-31 02:38 G 21280371.51 21280371.61 21280371.72 0.0140 0.0077

Uranus 53551-10-27 06:00 G 21280459.66 21280459.75 21280459.84 0.0140 0.0098

Uranus 53552-01-23 09:07 G 21280547.82 21280547.88 21280547.95 0.0140 0.0119

Uranus 53552-04-20 12:14 G 21280636.01 21280636.01 21280636.04 0.0140 0.0140

Jupiter 53556-05-22 20:10 G 21282129.21 21282129.34 21282129.46 0.0524 0.0049

Saturn 53557-10-31 06:43 G 21282655.73 21282655.78 21282655.83 0.0297 0.0273

Saturn 53558-01-27 19:12 G 21282744.18 21282744.30 21282744.43 0.0297 0.0094

Saturn 53558-04-26 07:41 G 21282832.69 21282832.82 21282832.94 0.0297 0.0085

Saturn 53558-07-23 19:55 G 21282921.27 21282921.33 21282921.39 0.0298 0.0262

Earth 53559-01-14 12:14 G 21283095.90 21283096.01 21283096.12 0.2667 0.0374

Moon 53559-01-14 12:43 G 21283095.92 21283096.03 21283096.13 0.2673 0.0382 *

Jupiter 53562-07-08 11:02 G 21284366.87 21284366.96 21284367.06 0.0501 0.0428

Jupiter 53562-10-06 21:50 G 21284457.32 21284457.41 21284457.51 0.0504 0.0432

Mars 53563-05-16 05:17 G 21284678.66 21284678.72 21284678.78 0.1783 0.1497

Mars 53564-03-12 02:53 G 21284979.48 21284979.62 21284979.76 0.1750 0.0904

Jupiter 53568-03-11 00:29 G 21286439.40 21286439.52 21286439.64 0.0525 0.0204

Jupiter 53568-06-08 05:46 G 21286528.67 21286528.74 21286528.81 0.0522 0.0433

Venus 53568-09-04 23:17 G 21286617.40 21286617.47 21286617.55 0.3686 0.2280

Earth 53572-01-17 05:46 G 21287846.65 21287846.74 21287846.83 0.2666 0.1547

Moon 53572-01-17 06:29 G 21287846.69 21287846.77 21287846.85 0.2667 0.1680 *

Saturn 53572-05-21 21:50 G 21287972.35 21287972.41 21287972.48 0.0263 0.0245

Saturn 53572-08-18 18:29 G 21288061.09 21288061.27 21288061.45 0.0263 0.0066

Mars 53572-10-05 14:53 G 21288109.00 21288109.12 21288109.23 0.1775 0.0403

Saturn 53572-11-15 15:07 G 21288149.96 21288150.13 21288150.30 0.0263 0.0114

Mars 53573-08-02 02:10 G 21288409.45 21288409.59 21288409.73 0.1758 0.0887

Venus 53574-03-21 14:24 G 21288641.00 21288641.10 21288641.20 0.3685 0.0080

Jupiter 53574-07-25 18:43 G 21288767.11 21288767.28 21288767.45 0.0504 0.0217

Moon 53579-01-10 05:17 G 21290396.64 21290396.72 21290396.79 0.2673 0.1929

Earth 53579-01-10 05:46 G 21290396.66 21290396.74 21290396.82 0.2669 0.1809 *

Neptune 53579-08-15 05:46 G 21290613.68 21290613.74 21290613.83 0.0088 0.0081

Venus 53579-10-05 05:17 G 21290664.65 21290664.72 21290664.80 0.3685 0.2369

Neptune 53579-11-11 09:22 G 21290701.78 21290701.89 21290702.02 0.0088 0.0069

Jupiter 53579-12-29 04:19 G 21290749.60 21290749.68 21290749.77 0.0525 0.0374

Neptune 53580-02-07 12:43 G 21290789.90 21290790.03 21290790.20 0.0088 0.0059

Jupiter 53580-03-27 09:50 G 21290838.80 21290838.91 21290839.02 0.0523 0.0271

Neptune 53580-05-05 16:48 G 21290878.04 21290878.20 21290878.36 0.0088 0.0047

Neptune 53580-08-01 20:10 G 21290966.17 21290966.34 21290966.53 0.0088 0.0036

Neptune 53580-10-28 23:46 G 21291054.31 21291054.49 21291054.69 0.0088 0.0025

Neptune 53581-01-25 03:22 G 21291142.46 21291142.64 21291142.84 0.0088 0.0014

Neptune 53581-04-23 07:12 G 21291230.60 21291230.80 21291230.99 0.0088 0.0002

Moon 53581-07-16 07:55 G 21291314.69 21291314.83 21291314.98 0.2665 0.1112

Earth 53581-07-16 09:50 G 21291314.76 21291314.91 21291315.05 0.2664 0.0993 *

Neptune 53581-07-20 10:48 G 21291318.75 21291318.95 21291319.14 0.0088 0.0010

Neptune 53581-10-16 14:24 G 21291406.91 21291407.10 21291407.29 0.0088 0.0021

Neptune 53582-01-12 17:46 G 21291495.07 21291495.24 21291495.43 0.0088 0.0033

Mars 53582-02-26 00:29 G 21291539.41 21291539.52 21291539.62 0.1769 0.0693

Neptune 53582-04-10 21:36 G 21291583.23 21291583.40 21291583.57 0.0088 0.0044

Neptune 53582-07-08 00:58 G 21291671.40 21291671.54 21291671.71 0.0088 0.0055

Neptune 53582-10-04 04:34 G 21291759.58 21291759.69 21291759.84 0.0088 0.0067

Neptune 53582-12-31 08:38 G 21291847.77 21291847.86 21291847.95 0.0088 0.0078

Jupiter 53586-05-13 15:36 G 21293076.97 21293077.15 21293077.34 0.0503 0.0005

Saturn 53587-06-16 21:36 G 21293476.28 21293476.40 21293476.51 0.0298 0.0142

Saturn 53587-09-13 10:05 G 21293564.79 21293564.92 21293565.05 0.0298 0.0038

Saturn 53587-12-10 22:19 G 21293653.34 21293653.43 21293653.52 0.0298 0.0215

Venus 53588-01-23 16:19 G 21293697.02 21293697.18 21293697.35 0.3685 0.0189

Uranus 53589-06-30 16:05 G 21294221.15 21294221.17 21294221.23 0.0139 0.0135

Uranus 53589-09-27 00:00 G 21294309.39 21294309.50 21294309.64 0.0139 0.0105

Uranus 53589-12-24 07:55 G 21294397.68 21294397.83 21294398.01 0.0139 0.0075

Uranus 53590-03-22 16:05 G 21294485.99 21294486.17 21294486.36 0.0139 0.0044

Uranus 53590-06-19 00:00 G 21294574.31 21294574.50 21294574.70 0.0139 0.0014

Uranus 53590-09-15 07:55 G 21294662.64 21294662.83 21294663.03 0.0139 0.0016

Uranus 53590-12-12 15:36 G 21294750.98 21294751.15 21294751.34 0.0138 0.0047

Uranus 53591-03-10 23:31 G 21294839.33 21294839.48 21294839.65 0.0138 0.0077

Uranus 53591-06-07 07:26 G 21294927.70 21294927.81 21294927.94 0.0138 0.0107

Uranus 53591-09-03 15:36 G 21295016.12 21295016.15 21295016.18 0.0138 0.0136

Moon 53592-01-12 23:31 G 21295147.37 21295147.48 21295147.58 0.2674 0.0611

Earth 53592-01-12 23:31 G 21295147.37 21295147.48 21295147.59 0.2668 0.0602 *

Jupiter 53592-01-14 13:55 G 21295148.96 21295149.08 21295149.21 0.0523 0.0110

Moon 53594-07-19 15:50 G 21296066.03 21296066.16 21296066.30 0.2669 0.1355

Earth 53594-07-19 17:17 G 21296066.10 21296066.22 21296066.35 0.2665 0.1628 *

Jupiter 53598-03-01 12:14 G 21297386.84 21297387.01 21297387.18 0.0502 0.0215

Saturn 53602-01-05 19:41 G 21298793.15 21298793.32 21298793.50 0.0264 0.0100

Saturn 53602-04-04 16:19 G 21298882.00 21298882.18 21298882.36 0.0264 0.0081

Saturn 53602-07-02 13:12 G 21298971.04 21298971.05 21298971.06 0.0263 0.0263

Mars 53602-11-14 05:17 G 21299105.68 21299105.72 21299105.76 0.1782 0.1649

Mars 53603-09-11 03:22 G 21299406.52 21299406.64 21299406.77 0.1750 0.1126

Jupiter 53603-11-02 18:00 G 21299459.12 21299459.25 21299459.37 0.0525 0.0062

Earth 53605-01-14 17:02 G 21299898.11 21299898.21 21299898.32 0.2667 0.0598

Moon 53605-01-14 17:31 G 21299898.12 21299898.23 21299898.33 0.2673 0.0665 *

Jupiter 53609-12-18 08:53 G 21301696.78 21301696.87 21301696.97 0.0501 0.0429

Jupiter 53610-03-18 19:26 G 21301787.22 21301787.31 21301787.41 0.0504 0.0429

Pluto 53611-04-18 00:58 G 21302182.47 21302182.54 21302182.61 0.0067 0.0058

Pluto 53611-07-15 01:41 G 21302270.47 21302270.57 21302270.67 0.0068 0.0047

Pluto 53611-10-11 01:55 G 21302358.48 21302358.58 21302358.71 0.0068 0.0037

Pluto 53612-01-07 02:38 G 21302446.49 21302446.61 21302446.74 0.0068 0.0026

Pluto 53612-04-04 03:22 G 21302534.51 21302534.64 21302534.78 0.0068 0.0015

Mars 53612-04-05 14:53 G 21302536.00 21302536.12 21302536.23 0.1775 0.0549

Pluto 53612-07-01 04:05 G 21302622.53 21302622.67 21302622.80 0.0068 0.0004

Pluto 53612-09-27 04:34 G 21302710.55 21302710.69 21302710.83 0.0068 0.0007

Pluto 53612-12-24 05:02 G 21302798.58 21302798.71 21302798.85 0.0068 0.0018

Mars 53613-01-31 02:53 G 21302836.47 21302836.62 21302836.78 0.1757 0.0635

Pluto 53613-03-22 05:46 G 21302886.62 21302886.74 21302886.86 0.0068 0.0029

Pluto 53613-06-18 06:14 G 21302974.66 21302974.76 21302974.87 0.0068 0.0041

Pluto 53613-09-14 06:43 G 21303062.70 21303062.78 21303062.88 0.0068 0.0052

Pluto 53613-12-11 07:26 G 21303150.76 21303150.81 21303150.87 0.0069 0.0063

Jupiter 53615-08-21 22:19 G 21303769.31 21303769.43 21303769.54 0.0525 0.0221

Jupiter 53615-11-19 03:36 G 21303858.58 21303858.65 21303858.72 0.0522 0.0419

Saturn 53616-11-03 00:58 G 21304208.44 21304208.54 21304208.65 0.0297 0.0173

Saturn 53617-01-30 13:41 G 21304296.94 21304297.07 21304297.20 0.0297 0.0011

Saturn 53617-04-29 01:55 G 21304385.48 21304385.58 21304385.68 0.0298 0.0184

Earth 53618-01-17 10:34 G 21304648.86 21304648.94 21304649.02 0.2666 0.1771

Moon 53618-01-17 11:17 G 21304648.89 21304648.97 21304649.05 0.2666 0.1817 *

Mars 53621-08-27 00:29 G 21305966.40 21305966.52 21305966.63 0.1769 0.0541

Jupiter 53622-01-04 15:36 G 21306096.98 21306097.15 21306097.32 0.0503 0.0200

Moon 53625-01-10 10:05 G 21307198.83 21307198.92 21307199.01 0.2673 0.1606

Earth 53625-01-10 10:34 G 21307198.86 21307198.94 21307199.03 0.2669 0.1582 *

Venus 53625-04-11 20:38 G 21307290.27 21307290.36 21307290.45 0.3686 0.1417

Jupiter 53627-06-10 02:38 G 21308079.53 21308079.61 21308079.70 0.0526 0.0379

Moon 53627-07-17 14:38 G 21308116.96 21308117.11 21308117.26 0.2666 0.0772

Earth 53627-07-17 16:34 G 21308117.03 21308117.19 21308117.34 0.2664 0.0526 *

Jupiter 53627-09-07 08:10 G 21308168.73 21308168.84 21308168.95 0.0523 0.0266

Venus 53630-10-26 11:31 G 21309313.89 21309313.98 21309314.08 0.3685 0.0913

Mars 53631-01-17 09:50 G 21309396.87 21309396.91 21309396.96 0.1762 0.1620

Saturn 53631-05-25 19:26 G 21309525.15 21309525.31 21309525.46 0.0263 0.0149

Saturn 53631-08-22 15:50 G 21309613.98 21309614.16 21309614.35 0.0263 0.0032

Saturn 53631-11-19 12:43 G 21309702.92 21309703.03 21309703.14 0.0263 0.0213

Uranus 53633-03-22 00:58 G 21310191.50 21310191.54 21310191.61 0.0139 0.0125

Uranus 53633-06-18 04:19 G 21310279.60 21310279.68 21310279.77 0.0139 0.0105

Uranus 53633-09-14 07:41 G 21310367.72 21310367.82 21310367.93 0.0139 0.0084

Jupiter 53633-10-23 12:29 G 21310406.84 21310407.02 21310407.21 0.0503 0.0013

Uranus 53633-12-11 11:02 G 21310455.85 21310455.96 21310456.08 0.0139 0.0063

Uranus 53634-03-09 14:24 G 21310543.97 21310544.10 21310544.22 0.0140 0.0043

Uranus 53634-06-05 17:31 G 21310632.11 21310632.23 21310632.37 0.0140 0.0023

Uranus 53634-09-01 20:53 G 21310720.24 21310720.37 21310720.50 0.0140 0.0003

Uranus 53634-11-29 00:14 G 21310808.38 21310808.51 21310808.64 0.0140 0.0020

Uranus 53635-02-25 03:22 G 21310896.52 21310896.64 21310896.77 0.0140 0.0041

Uranus 53635-05-24 06:43 G 21310984.66 21310984.78 21310984.90 0.0140 0.0061

Uranus 53635-08-20 09:50 G 21311072.81 21311072.91 21311073.02 0.0140 0.0082

Uranus 53635-11-16 13:12 G 21311160.97 21311161.05 21311161.14 0.0140 0.0103

Uranus 53636-02-12 16:34 G 21311249.13 21311249.19 21311249.25 0.0140 0.0124

Venus 53636-05-11 02:38 G 21311337.56 21311337.61 21311337.66 0.3685 0.3223

Moon 53638-01-13 04:19 G 21311949.57 21311949.68 21311949.79 0.2675 0.0402

Earth 53638-01-13 04:19 G 21311949.57 21311949.68 21311949.79 0.2668 0.0371 *

Jupiter 53639-06-26 12:14 G 21312478.89 21312479.01 21312479.14 0.0523 0.0103

Moon 53640-07-19 23:02 G 21312868.36 21312868.46 21312868.55 0.2670 0.2074

Earth 53640-07-20 00:14 G 21312868.41 21312868.51 21312868.60 0.2666 0.2106 *

Mars 53643-03-12 04:05 G 21313833.57 21313833.67 21313833.77 0.1750 0.1369

Venus 53644-08-29 19:12 G 21314370.22 21314370.30 21314370.38 0.3685 0.3233

Jupiter 53645-08-11 09:36 G 21314716.73 21314716.90 21314717.06 0.0502 0.0223

Saturn 53646-03-23 03:07 G 21314940.55 21314940.63 21314940.72 0.0298 0.0223

Saturn 53646-06-19 15:36 G 21315029.03 21315029.15 21315029.28 0.0298 0.0044

Saturn 53646-09-16 04:05 G 21315117.55 21315117.67 21315117.79 0.0298 0.0135

Earth 53651-01-15 21:50 G 21316700.31 21316700.41 21316700.52 0.2667 0.0820

Moon 53651-01-15 22:19 G 21316700.33 21316700.43 21316700.53 0.2671 0.0877 *

Jupiter 53651-04-14 16:19 G 21316789.06 21316789.18 21316789.31 0.0524 0.0064

Mars 53651-10-05 14:53 G 21316963.01 21316963.12 21316963.22 0.1775 0.0699

Mars 53652-08-01 03:22 G 21317263.48 21317263.64 21317263.80 0.1757 0.0427

Jupiter 53657-05-30 06:29 G 21319026.68 21319026.77 21319026.86 0.0501 0.0435

Jupiter 53657-08-28 17:02 G 21319117.12 21319117.21 21319117.32 0.0504 0.0423

Moon 53658-01-08 21:07 G 21319250.35 21319250.38 21319250.40 0.2672 0.2596

Earth 53658-01-08 21:50 G 21319250.38 21319250.41 21319250.43 0.2670 0.2565 *

Neptune 53659-12-15 06:14 G 21319955.72 21319955.76 21319955.80 0.0089 0.0084

Neptune 53660-03-12 07:12 G 21320043.75 21320043.80 21320043.88 0.0089 0.0077

Neptune 53660-06-08 08:38 G 21320131.79 21320131.86 21320131.95 0.0089 0.0069

Earth 53660-07-14 15:50 G 21320168.13 21320168.16 21320168.19 0.2663 0.2611

Neptune 53660-09-04 09:50 G 21320219.83 21320219.91 21320220.02 0.0089 0.0061

Saturn 53660-10-11 20:24 G 21320257.22 21320257.35 21320257.49 0.0264 0.0184

Neptune 53660-12-01 11:17 G 21320307.87 21320307.97 21320308.09 0.0089 0.0053

Saturn 53661-01-08 17:02 G 21320346.02 21320346.21 21320346.40 0.0264 0.0006

Mars 53661-02-25 00:14 G 21320393.40 21320393.51 21320393.63 0.1769 0.0395

Neptune 53661-02-27 12:43 G 21320395.92 21320396.03 21320396.15 0.0089 0.0045

Saturn 53661-04-07 13:55 G 21320434.94 21320435.08 21320435.22 0.0263 0.0178

Neptune 53661-05-26 14:10 G 21320483.97 21320484.09 21320484.21 0.0089 0.0037

Neptune 53661-08-22 15:22 G 21320572.02 21320572.14 21320572.27 0.0089 0.0029

Neptune 53661-11-18 16:34 G 21320660.07 21320660.19 21320660.33 0.0089 0.0022

Neptune 53662-02-14 18:00 G 21320748.12 21320748.25 21320748.39 0.0089 0.0014

Neptune 53662-05-13 19:26 G 21320836.18 21320836.31 21320836.44 0.0089 0.0006

Neptune 53662-08-09 20:38 G 21320924.23 21320924.36 21320924.50 0.0089 0.0004

Neptune 53662-11-05 22:05 G 21321012.29 21321012.42 21321012.55 0.0089 0.0010

Jupiter 53663-01-31 20:10 G 21321099.23 21321099.34 21321099.45 0.0525 0.0235

Neptune 53663-02-01 23:17 G 21321100.34 21321100.47 21321100.60 0.0089 0.0018

Neptune 53663-05-01 00:29 G 21321188.40 21321188.52 21321188.65 0.0089 0.0026

Jupiter 53663-05-01 01:26 G 21321188.48 21321188.56 21321188.64 0.0523 0.0406 *

Neptune 53663-07-28 01:55 G 21321276.46 21321276.58 21321276.70 0.0089 0.0033

Neptune 53663-10-24 03:07 G 21321364.52 21321364.63 21321364.75 0.0089 0.0041

Earth 53664-01-18 15:22 G 21321451.07 21321451.14 21321451.21 0.2665 0.1987

Moon 53664-01-18 16:05 G 21321451.11 21321451.17 21321451.24 0.2666 0.2109 *

Neptune 53664-01-20 04:19 G 21321452.58 21321452.68 21321452.80 0.0089 0.0049

Neptune 53664-04-17 05:31 G 21321540.64 21321540.73 21321540.84 0.0089 0.0057

Neptune 53664-07-14 06:58 G 21321628.71 21321628.79 21321628.89 0.0089 0.0064

Neptune 53664-10-10 08:10 G 21321716.77 21321716.84 21321716.93 0.0089 0.0072

Neptune 53665-01-06 09:22 G 21321804.85 21321804.89 21321804.96 0.0089 0.0080

Neptune 53665-04-04 10:48 G 21321892.94 21321892.95 21321892.98 0.0089 0.0087

Jupiter 53669-06-16 13:26 G 21323426.89 21323427.06 21323427.23 0.0503 0.0200

Mars 53670-07-18 09:50 G 21323823.85 21323823.91 21323823.97 0.1762 0.1476

Moon 53671-01-11 15:07 G 21324001.04 21324001.13 21324001.22 0.2674 0.1459

Earth 53671-01-11 15:22 G 21324001.05 21324001.14 21324001.24 0.2669 0.1349 *

Moon 53673-07-17 21:22 G 21324919.24 21324919.39 21324919.55 0.2666 0.0224

Earth 53673-07-17 23:17 G 21324919.31 21324919.47 21324919.63 0.2664 0.0061 *

Uranus 53673-07-21 00:58 G 21324922.46 21324922.54 21324922.64 0.0139 0.0123

Uranus 53673-10-17 08:53 G 21325010.73 21325010.87 21325011.02 0.0139 0.0092

Uranus 53674-01-13 16:48 G 21325099.03 21325099.20 21325099.38 0.0139 0.0062

Uranus 53674-04-12 00:43 G 21325187.34 21325187.53 21325187.72 0.0139 0.0032

Uranus 53674-07-09 08:38 G 21325275.67 21325275.86 21325276.06 0.0139 0.0002

Uranus 53674-10-05 16:34 G 21325364.00 21325364.19 21325364.38 0.0139 0.0028

Jupiter 53674-11-20 00:29 G 21325409.44 21325409.52 21325409.60 0.0526 0.0397

Uranus 53675-01-02 00:29 G 21325452.34 21325452.52 21325452.70 0.0138 0.0059

Jupiter 53675-02-17 06:00 G 21325498.64 21325498.75 21325498.86 0.0523 0.0250

Uranus 53675-03-31 08:24 G 21325540.70 21325540.85 21325541.00 0.0138 0.0089

Uranus 53675-06-27 15:50 G 21325629.08 21325629.16 21325629.28 0.0138 0.0120

Saturn 53675-08-10 06:43 G 21325672.72 21325672.78 21325672.85 0.0297 0.0252

Saturn 53675-11-06 19:12 G 21325761.18 21325761.30 21325761.43 0.0297 0.0074

Saturn 53676-02-03 07:41 G 21325849.70 21325849.82 21325849.94 0.0297 0.0105

Saturn 53676-05-01 19:55 G 21325938.30 21325938.33 21325938.37 0.0298 0.0282

Venus 53676-05-03 02:53 G 21325939.56 21325939.62 21325939.68 0.3686 0.2893

Jupiter 53681-04-04 09:22 G 21327736.70 21327736.89 21327737.07 0.0503 0.0030

Venus 53681-11-16 17:46 G 21327963.14 21327963.24 21327963.34 0.3686 0.0580

Mars 53682-09-10 04:48 G 21328260.64 21328260.70 21328260.76 0.1750 0.1608

Moon 53684-01-14 09:07 G 21328751.77 21328751.88 21328751.99 0.2675 0.0123

Earth 53684-01-14 09:07 G 21328751.77 21328751.88 21328751.99 0.2668 0.0144 *

Moon 53686-07-21 06:00 G 21329670.69 21329670.75 21329670.82 0.2672 0.2414

Earth 53686-07-21 06:58 G 21329670.75 21329670.79 21329670.82 0.2666 0.2582 *

Jupiter 53686-12-06 10:34 G 21329808.82 21329808.94 21329809.07 0.0524 0.0098

Venus 53687-06-02 08:53 G 21329986.78 21329986.87 21329986.96 0.3685 0.1763

Saturn 53690-02-28 20:38 G 21330989.27 21330989.36 21330989.45 0.0263 0.0229

Saturn 53690-05-28 17:02 G 21331078.03 21331078.21 21331078.40 0.0263 0.0050

Saturn 53690-08-25 13:41 G 21331166.91 21331167.07 21331167.23 0.0263 0.0130

Mars 53691-04-05 14:53 G 21331390.02 21331390.12 21331390.22 0.1776 0.0857

Mars 53692-01-31 04:05 G 21331690.51 21331690.67 21331690.83 0.1757 0.0192

Jupiter 53693-01-21 06:14 G 21332046.60 21332046.76 21332046.93 0.0502 0.0239

Venus 53695-09-20 10:05 G 21333018.83 21333018.92 21333019.02 0.3685 0.2984

Earth 53697-01-16 02:38 G 21333502.51 21333502.61 21333502.71 0.2667 0.1043

Moon 53697-01-16 03:22 G 21333502.54 21333502.64 21333502.74 0.2670 0.1093 *

Pluto 53697-11-08 22:05 G 21333799.36 21333799.42 21333799.50 0.0077 0.0070

Pluto 53698-02-05 00:29 G 21333887.38 21333887.52 21333887.66 0.0077 0.0049

Pluto 53698-05-04 02:38 G 21333975.44 21333975.61 21333975.79 0.0077 0.0028

Pluto 53698-07-31 05:02 G 21334063.53 21334063.71 21334063.90 0.0077 0.0007

Jupiter 53698-09-24 14:38 G 21334118.99 21334119.11 21334119.24 0.0524 0.0068

Pluto 53698-10-27 07:12 G 21334151.62 21334151.80 21334151.99 0.0076 0.0014

Pluto 53699-01-23 09:22 G 21334239.74 21334239.89 21334240.07 0.0076 0.0035

Pluto 53699-04-21 11:17 G 21334327.87 21334327.97 21334328.12 0.0076 0.0057

Mars 53700-08-27 00:29 G 21334820.40 21334820.52 21334820.63 0.1769 0.0250

Moon 53704-01-11 01:55 G 21336052.54 21336052.58 21336052.62 0.2672 0.2482

Earth 53704-01-11 02:38 G 21336052.56 21336052.61 21336052.66 0.2670 0.2331 *

Jupiter 53704-11-10 03:36 G 21336356.57 21336356.65 21336356.74 0.0501 0.0445

Jupiter 53705-02-08 14:24 G 21336447.00 21336447.10 21336447.20 0.0504 0.0414

Saturn 53705-03-26 21:07 G 21336493.27 21336493.38 21336493.50 0.0298 0.0127

Saturn 53705-06-23 09:36 G 21336581.77 21336581.90 21336582.03 0.0298 0.0053

Saturn 53705-09-19 21:50 G 21336670.34 21336670.41 21336670.50 0.0298 0.0231

Moon 53706-07-16 20:53 G 21336970.30 21336970.37 21336970.43 0.2662 0.2432

Earth 53706-07-16 22:34 G 21336970.35 21336970.44 21336970.53 0.2663 0.2160 *

Mars 53710-01-17 09:50 G 21338250.84 21338250.91 21338250.99 0.1762 0.1316

Earth 53710-01-19 20:10 G 21338253.28 21338253.34 21338253.40 0.2665 0.2210

Moon 53710-01-19 20:53 G 21338253.31 21338253.37 21338253.42 0.2665 0.2278 *

Jupiter 53710-07-14 18:43 G 21338429.17 21338429.28 21338429.40 0.0525 0.0233

Jupiter 53710-10-12 00:00 G 21338518.42 21338518.50 21338518.58 0.0522 0.0406

Jupiter 53716-11-27 11:02 G 21340756.79 21340756.96 21340757.13 0.0503 0.0196

Moon 53717-01-12 19:55 G 21340803.23 21340803.33 21340803.43 0.2675 0.1098

Earth 53717-01-12 20:24 G 21340803.25 21340803.35 21340803.45 0.2669 0.1119 *

Uranus 53717-04-12 08:38 G 21340892.80 21340892.86 21340892.93 0.0139 0.0119

Uranus 53717-07-09 11:46 G 21340980.91 21340980.99 21340981.09 0.0139 0.0098

Uranus 53717-10-05 15:07 G 21341069.03 21341069.13 21341069.25 0.0139 0.0078

Uranus 53718-01-01 18:29 G 21341157.15 21341157.27 21341157.39 0.0139 0.0057

Uranus 53718-03-30 21:50 G 21341245.28 21341245.41 21341245.54 0.0140 0.0036

Uranus 53718-06-27 01:12 G 21341333.42 21341333.55 21341333.68 0.0140 0.0016

Uranus 53718-09-23 04:19 G 21341421.55 21341421.68 21341421.81 0.0140 0.0007

Uranus 53718-12-20 07:41 G 21341509.69 21341509.82 21341509.95 0.0140 0.0026

Uranus 53719-03-18 11:02 G 21341597.83 21341597.96 21341598.08 0.0140 0.0047

Uranus 53719-06-14 14:10 G 21341685.98 21341686.09 21341686.21 0.0140 0.0068

Moon 53719-07-20 04:19 G 21341721.52 21341721.68 21341721.83 0.2666 0.0232

Earth 53719-07-20 06:00 G 21341721.59 21341721.75 21341721.90 0.2664 0.0420 *

Uranus 53719-09-10 17:31 G 21341774.13 21341774.23 21341774.33 0.0140 0.0088

Saturn 53719-10-16 17:46 G 21341810.07 21341810.24 21341810.42 0.0263 0.0089

Uranus 53719-12-07 20:38 G 21341862.29 21341862.36 21341862.45 0.0140 0.0109

Saturn 53720-01-13 14:24 G 21341898.93 21341899.10 21341899.28 0.0263 0.0092

Uranus 53720-03-04 23:46 G 21341950.46 21341950.49 21341950.55 0.0140 0.0131

Jupiter 53722-05-02 22:19 G 21342739.35 21342739.43 21342739.51 0.0526 0.0409

Jupiter 53722-07-31 04:05 G 21342828.55 21342828.67 21342828.78 0.0523 0.0240

Jupiter 53728-09-15 07:26 G 21345066.63 21345066.81 21345067.00 0.0502 0.0027

Earth 53730-01-15 13:55 G 21345553.97 21345554.08 21345554.19 0.2668 0.0091

Moon 53730-01-15 14:10 G 21345553.98 21345554.09 21345554.20 0.2674 0.0073 *

Mars 53730-10-05 14:38 G 21345817.02 21345817.11 21345817.21 0.1775 0.0993

Mars 53731-08-02 04:48 G 21346117.54 21346117.70 21346117.86 0.1757 0.0064

Venus 53732-12-09 00:00 G 21346612.42 21346612.50 21346612.59 0.3686 0.2044

Jupiter 53734-05-19 08:24 G 21347138.73 21347138.85 21347138.98 0.0524 0.0083

Saturn 53734-08-14 00:43 G 21347225.42 21347225.53 21347225.64 0.0297 0.0158

Saturn 53734-11-10 13:12 G 21347313.92 21347314.05 21347314.18 0.0297 0.0021

Saturn 53735-02-07 01:26 G 21347402.47 21347402.56 21347402.66 0.0298 0.0199

Venus 53738-06-24 15:07 G 21348636.03 21348636.13 21348636.23 0.3685 0.0297

Mars 53740-02-26 00:29 G 21349247.40 21349247.52 21349247.64 0.1769 0.0083

Jupiter 53740-07-04 03:22 G 21349376.48 21349376.64 21349376.80 0.0502 0.0252

Mars 53740-12-22 04:05 G 21349547.64 21349547.67 21349547.69 0.1764 0.1739

Earth 53743-01-18 07:26 G 21350304.72 21350304.81 21350304.91 0.2666 0.1265

Moon 53743-01-18 08:10 G 21350304.75 21350304.84 21350304.93 0.2669 0.1393 *

Venus 53744-01-08 06:14 G 21350659.69 21350659.76 21350659.82 0.3685 0.2624

Neptune 53744-05-12 02:38 G 21350784.55 21350784.61 21350784.72 0.0088 0.0080

Neptune 53744-08-08 06:43 G 21350872.66 21350872.78 21350872.90 0.0088 0.0068

Neptune 53744-11-04 10:05 G 21350960.78 21350960.92 21350961.08 0.0088 0.0057

Neptune 53745-01-31 13:41 G 21351048.91 21351049.07 21351049.25 0.0088 0.0046

Neptune 53745-04-29 17:17 G 21351137.05 21351137.22 21351137.41 0.0088 0.0034

Neptune 53745-07-26 20:53 G 21351225.19 21351225.37 21351225.57 0.0088 0.0023

Neptune 53745-10-23 00:43 G 21351313.33 21351313.53 21351313.72 0.0088 0.0012

Neptune 53746-01-19 04:19 G 21351401.48 21351401.68 21351401.87 0.0088 0.0001

Jupiter 53746-03-07 13:12 G 21351448.92 21351449.05 21351449.17 0.0525 0.0072

Neptune 53746-04-17 07:41 G 21351489.63 21351489.82 21351490.02 0.0088 0.0011

Neptune 53746-07-14 11:17 G 21351577.79 21351577.97 21351578.17 0.0088 0.0022

Neptune 53746-10-10 14:53 G 21351665.95 21351666.12 21351666.31 0.0088 0.0034

Neptune 53747-01-06 18:43 G 21351754.11 21351754.28 21351754.45 0.0088 0.0045

Neptune 53747-04-04 22:05 G 21351842.28 21351842.42 21351842.58 0.0088 0.0057

Neptune 53747-07-02 01:55 G 21351930.46 21351930.58 21351930.71 0.0088 0.0068

Neptune 53747-09-28 05:02 G 21352018.65 21352018.71 21352018.82 0.0088 0.0080

Saturn 53749-03-04 18:00 G 21352542.09 21352542.25 21352542.41 0.0263 0.0133

Saturn 53749-06-01 14:24 G 21352630.92 21352631.10 21352631.29 0.0263 0.0047

Mars 53749-07-18 09:50 G 21352677.83 21352677.91 21352678.00 0.1762 0.1167

Saturn 53749-08-29 11:17 G 21352719.87 21352719.97 21352720.06 0.0263 0.0227

Moon 53750-01-11 06:43 G 21352854.72 21352854.78 21352854.85 0.2672 0.2137

Earth 53750-01-11 07:26 G 21352854.74 21352854.81 21352854.88 0.2670 0.2096 *

Jupiter 53752-04-22 00:43 G 21353686.46 21353686.53 21353686.60 0.0501 0.0459

Venus 53752-04-27 12:43 G 21353691.87 21353692.03 21353692.20 0.3685 0.0073

Moon 53752-07-17 03:22 G 21353772.53 21353772.64 21353772.76 0.2662 0.1796

Earth 53752-07-17 05:17 G 21353772.60 21353772.72 21353772.84 0.2663 0.1700 *

Jupiter 53752-07-21 11:17 G 21353776.86 21353776.97 21353777.08 0.0504 0.0399

Earth 53756-01-21 00:58 G 21355055.50 21355055.54 21355055.58 0.2665 0.2429

Moon 53756-01-21 01:26 G 21355055.53 21355055.56 21355055.60 0.2664 0.2505 *

Uranus 53757-08-11 09:07 G 21355623.77 21355623.88 21355624.00 0.0139 0.0111

Uranus 53757-11-07 17:02 G 21355712.06 21355712.21 21355712.37 0.0139 0.0081

Jupiter 53757-12-24 17:17 G 21355759.11 21355759.22 21355759.33 0.0525 0.0235

Uranus 53758-02-04 00:58 G 21355800.36 21355800.54 21355800.72 0.0139 0.0051

Jupiter 53758-03-23 22:34 G 21355848.36 21355848.44 21355848.52 0.0522 0.0404

Uranus 53758-05-03 08:53 G 21355888.68 21355888.87 21355889.06 0.0139 0.0021

Uranus 53758-07-30 16:48 G 21355977.01 21355977.20 21355977.39 0.0139 0.0009

Uranus 53758-10-27 00:43 G 21356065.34 21356065.53 21356065.72 0.0139 0.0040

Uranus 53759-01-23 08:38 G 21356153.69 21356153.86 21356154.03 0.0138 0.0070

Uranus 53759-04-21 16:19 G 21356242.06 21356242.18 21356242.32 0.0138 0.0100

Uranus 53759-07-19 00:14 G 21356330.46 21356330.51 21356330.58 0.0138 0.0130

Moon 53763-01-14 00:58 G 21357605.44 21357605.54 21357605.64 0.2676 0.0967

Earth 53763-01-14 01:12 G 21357605.44 21357605.55 21357605.65 0.2669 0.0887 *

Saturn 53764-01-01 02:10 G 21357957.50 21357957.59 21357957.68 0.0298 0.0217

Saturn 53764-03-29 14:38 G 21358045.98 21358046.11 21358046.24 0.0298 0.0038

Jupiter 53764-05-09 08:24 G 21358086.68 21358086.85 21358087.02 0.0503 0.0187

Saturn 53764-06-26 03:07 G 21358134.52 21358134.63 21358134.74 0.0298 0.0141

Moon 53765-07-20 11:17 G 21358523.81 21358523.97 21358524.12 0.2668 0.0688

Earth 53765-07-20 12:29 G 21358523.87 21358524.02 21358524.17 0.2665 0.0883 *

Jupiter 53769-10-12 21:07 G 21360069.30 21360069.38 21360069.47 0.0526 0.0403

Jupiter 53770-01-10 02:38 G 21360158.50 21360158.61 21360158.73 0.0523 0.0245

Mars 53770-04-05 14:53 G 21360244.03 21360244.12 21360244.21 0.1776 0.1154

Mars 53771-01-31 05:17 G 21360544.56 21360544.72 21360544.88 0.1757 0.0280

Earth 53776-01-16 18:43 G 21362356.17 21362356.28 21362356.39 0.2667 0.0311

Moon 53776-01-16 18:58 G 21362356.19 21362356.29 21362356.40 0.2673 0.0413 *

Jupiter 53776-02-26 05:17 G 21362396.54 21362396.72 21362396.91 0.0502 0.0027

Saturn 53778-07-22 18:14 G 21363274.13 21363274.26 21363274.40 0.0263 0.0175

Saturn 53778-10-19 14:53 G 21363362.93 21363363.12 21363363.31 0.0263 0.0005

Saturn 53779-01-16 11:17 G 21363451.85 21363451.97 21363452.11 0.0263 0.0185

Mars 53779-08-27 00:14 G 21363674.40 21363674.51 21363674.63 0.1769 0.0081

Mars 53780-06-22 04:34 G 21363974.61 21363974.69 21363974.77 0.1765 0.1512

Jupiter 53781-10-29 06:43 G 21364468.65 21364468.78 21364468.90 0.0524 0.0076

Venus 53783-12-31 06:14 G 21365261.74 21365261.76 21365261.79 0.3686 0.3515

Jupiter 53787-12-15 02:10 G 21366706.43 21366706.59 21366706.75 0.0502 0.0241

Mars 53789-01-16 09:50 G 21367104.82 21367104.91 21367105.01 0.1762 0.1020

Earth 53789-01-18 12:14 G 21367106.92 21367107.01 21367107.10 0.2666 0.1490

Moon 53789-01-18 12:58 G 21367106.95 21367107.04 21367107.13 0.2669 0.1524 *

Venus 53789-07-15 21:22 G 21367285.30 21367285.39 21367285.48 0.3685 0.1176

Saturn 53793-05-20 05:31 G 21368689.66 21368689.73 21368689.80 0.0297 0.0251

Saturn 53793-08-16 18:00 G 21368778.12 21368778.25 21368778.38 0.0297 0.0072

Jupiter 53793-08-17 11:02 G 21368778.84 21368778.96 21368779.09 0.0525 0.0083

Saturn 53793-11-13 06:29 G 21368866.65 21368866.77 21368866.89 0.0298 0.0107

Saturn 53794-02-09 18:43 G 21368955.25 21368955.28 21368955.32 0.0298 0.0284

Venus 53795-01-29 12:29 G 21369308.92 21369309.02 21369309.11 0.3685 0.1168

Moon 53796-01-12 11:46 G 21369656.91 21369656.99 21369657.06 0.2673 0.1961

Earth 53796-01-12 12:14 G 21369656.93 21369657.01 21369657.09 0.2670 0.1864 *

Moon 53798-07-18 10:05 G 21370574.79 21370574.92 21370575.05 0.2663 0.1540

Earth 53798-07-18 11:46 G 21370574.85 21370574.99 21370575.13 0.2663 0.1243 *

Jupiter 53799-10-02 21:50 G 21371016.35 21371016.41 21371016.47 0.0501 0.0468

Jupiter 53800-01-01 08:24 G 21371106.73 21371106.85 21371106.97 0.0504 0.0388

Venus 53800-08-15 03:22 G 21371332.61 21371332.64 21371332.67 0.3685 0.3479

Uranus 53801-02-04 12:29 G 21371506.00 21371506.02 21371506.06 0.0139 0.0134

Uranus 53801-05-03 15:50 G 21371594.09 21371594.16 21371594.24 0.0139 0.0113

Uranus 53801-07-30 19:12 G 21371682.21 21371682.30 21371682.40 0.0139 0.0092

Uranus 53801-10-26 22:19 G 21371770.33 21371770.43 21371770.55 0.0139 0.0073

Earth 53802-01-22 05:46 G 21371857.73 21371857.74 21371857.74 0.2665 0.2650

Uranus 53802-01-23 01:41 G 21371858.45 21371858.57 21371858.70 0.0139 0.0052

Uranus 53802-04-21 05:02 G 21371946.59 21371946.71 21371946.84 0.0139 0.0031

Uranus 53802-07-18 08:24 G 21372034.72 21372034.85 21372034.98 0.0139 0.0010

Uranus 53802-10-14 11:46 G 21372122.86 21372122.99 21372123.12 0.0140 0.0011

Uranus 53803-01-10 14:53 G 21372210.99 21372211.12 21372211.25 0.0140 0.0032

Uranus 53803-04-08 18:14 G 21372299.14 21372299.26 21372299.38 0.0140 0.0052

Uranus 53803-07-05 21:22 G 21372387.29 21372387.39 21372387.51 0.0140 0.0073

Uranus 53803-10-02 00:43 G 21372475.44 21372475.53 21372475.63 0.0140 0.0094

Uranus 53803-12-29 04:05 G 21372563.60 21372563.67 21372563.74 0.0140 0.0114

Uranus 53804-03-26 07:12 G 21372651.77 21372651.80 21372651.84 0.0140 0.0135

Jupiter 53805-06-06 15:50 G 21373089.04 21373089.16 21373089.27 0.0525 0.0237

Jupiter 53805-09-03 21:07 G 21373178.30 21373178.38 21373178.46 0.0523 0.0405

Saturn 53807-12-10 18:29 G 21374006.17 21374006.27 21374006.38 0.0263 0.0218

Saturn 53808-03-08 14:53 G 21374094.94 21374095.12 21374095.31 0.0263 0.0041

Saturn 53808-06-05 11:31 G 21374183.82 21374183.98 21374184.14 0.0263 0.0139

Venus 53808-12-03 15:36 G 21374365.06 21374365.15 21374365.24 0.3685 0.3048

Moon 53809-01-15 05:46 G 21374407.64 21374407.74 21374407.85 0.2675 0.0628

Earth 53809-01-15 06:00 G 21374407.64 21374407.75 21374407.85 0.2668 0.0656 *

Mars 53809-10-05 14:53 G 21374671.04 21374671.12 21374671.20 0.1776 0.1304

Mars 53810-08-02 05:46 G 21374971.59 21374971.74 21374971.90 0.1757 0.0511

Moon 53811-07-22 18:00 G 21375326.12 21375326.25 21375326.39 0.2670 0.1298

Earth 53811-07-22 19:26 G 21375326.17 21375326.31 21375326.44 0.2665 0.1353 *

Jupiter 53811-10-21 05:31 G 21375416.55 21375416.73 21375416.90 0.0503 0.0175

Jupiter 53817-03-25 19:55 G 21377399.25 21377399.33 21377399.41 0.0526 0.0400

Jupiter 53817-06-23 01:26 G 21377488.45 21377488.56 21377488.67 0.0523 0.0247

Mars 53819-02-26 00:29 G 21378101.40 21378101.52 21378101.63 0.1769 0.0222

Mars 53819-12-23 05:17 G 21378401.61 21378401.72 21378401.83 0.1764 0.1277

Earth 53822-01-17 23:31 G 21379158.37 21379158.48 21379158.59 0.2667 0.0539

Moon 53822-01-18 00:00 G 21379158.39 21379158.50 21379158.61 0.2672 0.0542 *

Saturn 53823-01-04 19:12 G 21379510.18 21379510.30 21379510.41 0.0298 0.0136

Saturn 53823-04-03 07:41 G 21379598.69 21379598.82 21379598.95 0.0298 0.0044

Saturn 53823-06-30 19:55 G 21379687.25 21379687.33 21379687.42 0.0298 0.0222

Jupiter 53823-08-09 02:38 G 21379726.43 21379726.61 21379726.80 0.0503 0.0034

Neptune 53824-09-12 05:17 G 21380126.68 21380126.72 21380126.77 0.0089 0.0083

Neptune 53824-12-09 06:29 G 21380214.71 21380214.77 21380214.85 0.0089 0.0075

Neptune 53825-03-07 07:55 G 21380302.75 21380302.83 21380302.92 0.0089 0.0067

Neptune 53825-06-03 09:22 G 21380390.79 21380390.89 21380390.99 0.0089 0.0059

Neptune 53825-08-30 10:48 G 21380478.84 21380478.95 21380479.06 0.0089 0.0051

Neptune 53825-11-26 11:46 G 21380566.89 21380566.99 21380567.12 0.0089 0.0044

Neptune 53826-02-22 13:12 G 21380654.94 21380655.05 21380655.18 0.0089 0.0036

Neptune 53826-05-21 14:38 G 21380742.99 21380743.11 21380743.24 0.0089 0.0028

Neptune 53826-08-17 16:05 G 21380831.04 21380831.17 21380831.30 0.0089 0.0020

Neptune 53826-11-13 17:17 G 21380919.09 21380919.22 21380919.35 0.0089 0.0012

Neptune 53827-02-09 18:43 G 21381007.15 21381007.28 21381007.41 0.0089 0.0005

Neptune 53827-05-08 19:55 G 21381095.20 21381095.33 21381095.46 0.0089 0.0004

Neptune 53827-08-04 21:07 G 21381183.25 21381183.38 21381183.52 0.0089 0.0012

Neptune 53827-10-31 22:34 G 21381271.31 21381271.44 21381271.57 0.0089 0.0019

Neptune 53828-01-27 23:46 G 21381359.37 21381359.49 21381359.62 0.0089 0.0027

Neptune 53828-04-25 00:58 G 21381447.43 21381447.54 21381447.67 0.0089 0.0035

Mars 53828-07-18 09:50 G 21381531.81 21381531.91 21381532.02 0.1762 0.0866

Neptune 53828-07-22 02:10 G 21381535.49 21381535.59 21381535.72 0.0089 0.0043

Neptune 53828-10-18 03:36 G 21381623.55 21381623.65 21381623.76 0.0089 0.0050

Neptune 53829-01-14 04:48 G 21381711.61 21381711.70 21381711.81 0.0089 0.0058

Jupiter 53829-04-11 05:31 G 21381798.61 21381798.73 21381798.86 0.0524 0.0087

Neptune 53829-04-12 06:00 G 21381799.68 21381799.75 21381799.85 0.0089 0.0066

Neptune 53829-07-09 07:41 G 21381887.75 21381887.82 21381887.89 0.0089 0.0073

Neptune 53829-10-05 08:38 G 21381975.82 21381975.86 21381975.92 0.0089 0.0081

Neptune 53830-01-01 10:05 G 21382063.92 21382063.92 21382063.93 0.0089 0.0089

Earth 53835-01-20 17:02 G 21383909.13 21383909.21 21383909.29 0.2666 0.1709

Moon 53835-01-20 17:46 G 21383909.16 21383909.24 21383909.31 0.2668 0.1854 *

Jupiter 53835-05-28 00:00 G 21384036.34 21384036.50 21384036.66 0.0502 0.0240

Saturn 53837-07-26 14:38 G 21384826.93 21384827.11 21384827.29 0.0263 0.0089

Saturn 53837-10-23 11:02 G 21384915.79 21384915.96 21384916.14 0.0263 0.0091

Venus 53840-08-07 03:36 G 21385934.58 21385934.65 21385934.72 0.3685 0.2646

Jupiter 53841-01-28 09:22 G 21386108.77 21386108.89 21386109.02 0.0525 0.0087

Uranus 53841-06-05 08:53 G 21386236.82 21386236.87 21386236.93 0.0139 0.0132

Uranus 53841-09-01 16:34 G 21386325.07 21386325.19 21386325.33 0.0139 0.0103

Uranus 53841-11-29 00:29 G 21386413.37 21386413.52 21386413.70 0.0139 0.0072

Moon 53842-01-13 16:34 G 21386459.11 21386459.19 21386459.28 0.2675 0.1699

Earth 53842-01-13 17:02 G 21386459.12 21386459.21 21386459.30 0.2669 0.1631 *

Uranus 53842-02-25 08:24 G 21386501.68 21386501.85 21386502.05 0.0139 0.0042

Uranus 53842-05-24 16:34 G 21386590.00 21386590.19 21386590.38 0.0139 0.0011

Uranus 53842-08-21 00:29 G 21386678.33 21386678.52 21386678.71 0.0139 0.0019

Uranus 53842-11-17 08:10 G 21386766.67 21386766.84 21386767.03 0.0139 0.0050

Uranus 53843-02-13 16:05 G 21386855.02 21386855.17 21386855.34 0.0139 0.0080

Uranus 53843-05-13 00:14 G 21386943.40 21386943.51 21386943.63 0.0138 0.0110

Moon 53844-07-19 16:48 G 21387377.05 21387377.20 21387377.35 0.2664 0.0861

Earth 53844-07-19 18:29 G 21387377.12 21387377.27 21387377.42 0.2664 0.0784 *

Venus 53846-02-20 18:43 G 21387958.18 21387958.28 21387958.38 0.3685 0.0320

Jupiter 53847-03-15 21:07 G 21388346.30 21388346.38 21388346.45 0.0501 0.0451

Jupiter 53847-06-14 07:26 G 21388436.71 21388436.81 21388436.92 0.0504 0.0405

Mars 53849-04-05 14:38 G 21389098.05 21389098.11 21389098.18 0.1776 0.1446

Mars 53850-01-31 06:29 G 21389398.63 21389398.77 21389398.92 0.1757 0.0766

Venus 53851-09-06 09:36 G 21389981.82 21389981.90 21389981.99 0.3685 0.2031

Saturn 53852-05-23 21:50 G 21390242.31 21390242.41 21390242.52 0.0297 0.0177

Saturn 53852-08-20 10:34 G 21390330.81 21390330.94 21390331.07 0.0298 0.0007

Jupiter 53852-11-16 13:55 G 21390418.96 21390419.08 21390419.19 0.0525 0.0245

Saturn 53852-11-16 22:48 G 21390419.35 21390419.45 21390419.56 0.0298 0.0182

Jupiter 53853-02-13 19:12 G 21390508.22 21390508.30 21390508.38 0.0523 0.0397

Moon 53855-01-16 10:48 G 21391209.84 21391209.95 21391210.05 0.2675 0.0474

Earth 53855-01-16 10:48 G 21391209.84 21391209.95 21391210.06 0.2668 0.0427 *

Pluto 53856-12-17 15:50 G 21391911.12 21391911.16 21391911.22 0.0067 0.0061

Pluto 53857-03-15 16:34 G 21391999.10 21391999.19 21391999.28 0.0067 0.0051

Pluto 53857-06-11 17:17 G 21392087.11 21392087.22 21392087.33 0.0068 0.0040

Moon 53857-07-23 00:43 G 21392128.41 21392128.53 21392128.66 0.2670 0.1595

Earth 53857-07-23 01:55 G 21392128.47 21392128.58 21392128.70 0.2665 0.1817 *

Pluto 53857-09-07 17:31 G 21392175.12 21392175.23 21392175.37 0.0068 0.0030

Pluto 53857-12-04 18:14 G 21392263.13 21392263.26 21392263.40 0.0068 0.0019

Pluto 53858-03-02 18:58 G 21392351.15 21392351.29 21392351.43 0.0068 0.0007

Pluto 53858-05-29 19:26 G 21392439.18 21392439.31 21392439.45 0.0068 0.0004

Pluto 53858-08-25 20:10 G 21392527.21 21392527.34 21392527.47 0.0068 0.0014

Mars 53858-08-27 00:29 G 21392528.40 21392528.52 21392528.63 0.1769 0.0372

Pluto 53858-11-21 20:38 G 21392615.24 21392615.36 21392615.49 0.0068 0.0026

Pluto 53859-02-17 21:22 G 21392703.27 21392703.39 21392703.51 0.0068 0.0037

Jupiter 53859-04-02 02:53 G 21392746.45 21392746.62 21392746.80 0.0503 0.0169

Pluto 53859-05-16 21:50 G 21392791.32 21392791.41 21392791.51 0.0068 0.0048

Mars 53859-06-23 05:46 G 21392828.61 21392828.74 21392828.87 0.1764 0.1053

Pluto 53859-08-12 22:34 G 21392879.37 21392879.44 21392879.51 0.0068 0.0059

Venus 53859-12-25 06:29 G 21393013.69 21393013.77 21393013.85 0.3685 0.3183

Jupiter 53864-09-04 18:29 G 21394729.19 21394729.27 21394729.35 0.0526 0.0398

Jupiter 53864-12-03 00:00 G 21394818.39 21394818.50 21394818.61 0.0523 0.0250

Saturn 53866-12-13 14:53 G 21395558.96 21395559.12 21395559.28 0.0263 0.0132

Saturn 53867-03-12 11:17 G 21395647.78 21395647.97 21395648.15 0.0263 0.0046

Saturn 53867-06-09 07:41 G 21395736.73 21395736.82 21395736.92 0.0263 0.0226

Mars 53868-01-17 10:05 G 21395958.81 21395958.92 21395959.03 0.1762 0.0709

Earth 53868-01-19 04:19 G 21395960.58 21395960.68 21395960.79 0.2667 0.0761

Moon 53868-01-19 04:48 G 21395960.60 21395960.70 21395960.80 0.2672 0.0884 *

Jupiter 53871-01-19 00:14 G 21397056.32 21397056.51 21397056.69 0.0503 0.0041

Earth 53875-01-12 04:05 G 21398510.65 21398510.67 21398510.69 0.2671 0.2622

Jupiter 53876-09-21 04:34 G 21399128.56 21399128.69 21399128.81 0.0524 0.0092

Earth 53881-01-20 21:50 G 21400711.34 21400711.41 21400711.48 0.2666 0.1935

Moon 53881-01-20 22:34 G 21400711.36 21400711.44 21400711.51 0.2666 0.1959 *

Saturn 53881-10-10 22:34 G 21400974.37 21400974.44 21400974.52 0.0298 0.0245

Saturn 53882-01-07 11:17 G 21401062.84 21401062.97 21401063.10 0.0298 0.0065

Saturn 53882-04-05 23:46 G 21401151.37 21401151.49 21401151.61 0.0298 0.0114

Saturn 53882-07-03 12:00 G 21401239.98 21401240.00 21401240.03 0.0298 0.0292

Jupiter 53882-11-06 21:36 G 21401366.24 21401366.40 21401366.56 0.0502 0.0244

Uranus 53885-02-24 20:10 G 21402207.30 21402207.34 21402207.40 0.0139 0.0126

Uranus 53885-05-23 23:46 G 21402295.40 21402295.49 21402295.57 0.0139 0.0105

Uranus 53885-08-20 02:53 G 21402383.52 21402383.62 21402383.73 0.0139 0.0085

Uranus 53885-11-16 06:14 G 21402471.64 21402471.76 21402471.88 0.0139 0.0064

Uranus 53886-02-12 09:22 G 21402559.77 21402559.89 21402560.02 0.0139 0.0044

Uranus 53886-05-11 12:43 G 21402647.90 21402648.03 21402648.16 0.0139 0.0023

Uranus 53886-08-07 16:05 G 21402736.04 21402736.17 21402736.30 0.0139 0.0002

Uranus 53886-11-03 19:26 G 21402824.18 21402824.31 21402824.44 0.0140 0.0019

Uranus 53887-01-30 22:34 G 21402912.32 21402912.44 21402912.57 0.0140 0.0039

Uranus 53887-04-29 01:55 G 21403000.46 21403000.58 21403000.70 0.0140 0.0060

Uranus 53887-07-26 05:02 G 21403088.61 21403088.71 21403088.82 0.0140 0.0081

Uranus 53887-10-22 08:24 G 21403176.76 21403176.85 21403176.94 0.0140 0.0101

Moon 53888-01-14 21:22 G 21403261.30 21403261.39 21403261.49 0.2675 0.1441

Earth 53888-01-14 21:50 G 21403261.32 21403261.41 21403261.50 0.2669 0.1402 *

Uranus 53888-01-18 11:31 G 21403264.93 21403264.98 21403265.05 0.0140 0.0122

Jupiter 53888-07-10 08:38 G 21403438.74 21403438.86 21403438.99 0.0524 0.0071

Mars 53888-10-04 14:53 G 21403525.07 21403525.12 21403525.16 0.1776 0.1597

Mars 53889-08-01 06:58 G 21403825.65 21403825.79 21403825.92 0.1757 0.0969

Moon 53890-07-20 23:31 G 21404179.33 21404179.48 21404179.63 0.2666 0.0596

Earth 53890-07-21 01:12 G 21404179.39 21404179.55 21404179.70 0.2664 0.0338 *

Jupiter 53894-08-25 19:12 G 21405676.22 21405676.30 21405676.39 0.0501 0.0446

Jupiter 53894-11-24 05:46 G 21405766.64 21405766.74 21405766.85 0.0504 0.0411

Saturn 53896-05-01 13:41 G 21406290.94 21406291.07 21406291.20 0.0263 0.0187

Saturn 53896-07-29 10:05 G 21406379.73 21406379.92 21406380.11 0.0263 0.0009

Saturn 53896-10-26 06:43 G 21406468.64 21406468.78 21406468.92 0.0263 0.0171

Venus 53897-03-14 00:58 G 21406607.45 21406607.54 21406607.62 0.3685 0.1781

Mars 53898-02-25 00:14 G 21406955.40 21406955.51 21406955.63 0.1769 0.0519

Mars 53898-12-22 06:14 G 21407255.62 21407255.76 21407255.91 0.1765 0.0812

Jupiter 53900-04-29 12:29 G 21407748.91 21407749.02 21407749.13 0.0525 0.0242

Jupiter 53900-07-27 17:46 G 21407838.17 21407838.24 21407838.33 0.0523 0.0400

Earth 53901-01-17 15:36 G 21408012.04 21408012.15 21408012.26 0.2668 0.0200

Moon 53901-01-17 15:36 G 21408012.05 21408012.15 21408012.26 0.2674 0.0198 *

Venus 53902-09-28 15:50 G 21408631.07 21408631.16 21408631.26 0.3685 0.0584

Moon 53903-07-25 07:41 G 21408930.74 21408930.82 21408930.90 0.2671 0.2276

Earth 53903-07-25 08:38 G 21408930.78 21408930.86 21408930.94 0.2665 0.2289 *

Jupiter 53906-09-13 02:24 G 21410076.43 21410076.60 21410076.78 0.0503 0.0194

Mars 53907-07-19 09:50 G 21410385.80 21410385.91 21410386.03 0.1762 0.0569

Venus 53908-04-13 06:58 G 21410654.73 21410654.79 21410654.85 0.3685 0.2885

Neptune 53909-02-08 00:00 G 21410955.42 21410955.50 21410955.60 0.0088 0.0078

Neptune 53909-05-07 03:36 G 21411043.53 21411043.65 21411043.78 0.0088 0.0067

Neptune 53909-08-03 06:58 G 21411131.66 21411131.79 21411131.96 0.0088 0.0056

Neptune 53909-10-30 10:34 G 21411219.79 21411219.94 21411220.12 0.0088 0.0045

Neptune 53910-01-26 14:10 G 21411307.92 21411308.09 21411308.28 0.0088 0.0034

Neptune 53910-04-24 18:00 G 21411396.06 21411396.25 21411396.44 0.0088 0.0022

Neptune 53910-07-21 21:36 G 21411484.21 21411484.40 21411484.60 0.0088 0.0011

Neptune 53910-10-18 01:12 G 21411572.36 21411572.55 21411572.75 0.0088 0.0002

Neptune 53911-01-14 04:48 G 21411660.51 21411660.70 21411660.90 0.0088 0.0012

Saturn 53911-03-01 01:12 G 21411706.53 21411706.55 21411706.58 0.0297 0.0289

Neptune 53911-04-12 08:24 G 21411748.66 21411748.85 21411749.04 0.0088 0.0023

Saturn 53911-05-28 13:55 G 21411794.96 21411795.08 21411795.20 0.0298 0.0109

Neptune 53911-07-09 12:00 G 21411836.82 21411837.00 21411837.18 0.0088 0.0035

Saturn 53911-08-25 02:24 G 21411883.47 21411883.60 21411883.73 0.0298 0.0070

Neptune 53911-10-05 15:22 G 21411924.99 21411925.14 21411925.32 0.0088 0.0047

Saturn 53911-11-21 14:38 G 21411972.04 21411972.11 21411972.18 0.0298 0.0248

Neptune 53912-01-01 18:58 G 21412013.16 21412013.29 21412013.45 0.0088 0.0058

Jupiter 53912-02-16 16:48 G 21412059.12 21412059.20 21412059.28 0.0526 0.0402

Neptune 53912-03-29 22:48 G 21412101.34 21412101.45 21412101.58 0.0088 0.0069

Jupiter 53912-05-15 22:34 G 21412148.33 21412148.44 21412148.55 0.0523 0.0247

Neptune 53912-06-26 02:10 G 21412189.53 21412189.59 21412189.69 0.0088 0.0081

Earth 53914-01-20 09:07 G 21412762.78 21412762.88 21412762.98 0.2667 0.0987

Moon 53914-01-20 09:36 G 21412762.80 21412762.90 21412763.00 0.2672 0.1018 *

Venus 53916-08-01 09:07 G 21413686.72 21413686.88 21413687.05 0.3685 0.0172

Mars 53916-12-08 19:41 G 21413816.28 21413816.32 21413816.36 0.1756 0.1628

Jupiter 53918-07-01 22:05 G 21414386.23 21414386.42 21414386.60 0.0502 0.0041

Moon 53921-01-13 08:10 G 21415312.80 21415312.84 21415312.89 0.2673 0.2418

Earth 53921-01-13 08:53 G 21415312.83 21415312.87 21415312.92 0.2670 0.2388 *

Moon 53923-07-19 23:02 G 21416230.43 21416230.46 21416230.49 0.2660 0.2606

Earth 53923-07-20 00:43 G 21416230.46 21416230.53 21416230.59 0.2663 0.2398 *

Jupiter 53924-03-04 03:22 G 21416458.51 21416458.64 21416458.76 0.0524 0.0098

Uranus 53925-06-26 16:19 G 21416938.11 21416938.18 21416938.28 0.0139 0.0123

Saturn 53925-09-19 13:41 G 21417022.99 21417023.07 21417023.16 0.0263 0.0231

Uranus 53925-09-23 00:14 G 21417026.38 21417026.51 21417026.67 0.0139 0.0093

Saturn 53925-12-17 10:05 G 21417111.74 21417111.92 21417112.11 0.0263 0.0054

Uranus 53925-12-20 08:24 G 21417114.68 21417114.85 21417115.02 0.0139 0.0062

Saturn 53926-03-16 06:29 G 21417200.61 21417200.77 21417200.94 0.0263 0.0126

Uranus 53926-03-18 16:19 G 21417202.99 21417203.18 21417203.37 0.0139 0.0032

Uranus 53926-06-15 00:14 G 21417291.31 21417291.51 21417291.70 0.0139 0.0002

Uranus 53926-09-11 08:10 G 21417379.65 21417379.84 21417380.03 0.0139 0.0029

Uranus 53926-12-08 16:05 G 21417467.99 21417468.17 21417468.35 0.0139 0.0059

Earth 53927-01-23 02:38 G 21417513.55 21417513.61 21417513.67 0.2666 0.2154

Moon 53927-01-23 03:22 G 21417513.58 21417513.64 21417513.69 0.2664 0.2291 *

Uranus 53927-03-06 23:46 G 21417556.35 21417556.49 21417556.65 0.0139 0.0090

Uranus 53927-06-03 07:41 G 21417644.74 21417644.82 21417644.93 0.0138 0.0120

Mars 53928-04-05 14:53 G 21417952.10 21417952.12 21417952.13 0.1776 0.1752

Mars 53929-01-31 07:41 G 21418252.70 21418252.82 21418252.93 0.1757 0.1213

Jupiter 53930-04-19 19:26 G 21418696.15 21418696.31 21418696.47 0.0502 0.0246

Moon 53934-01-16 02:24 G 21420063.50 21420063.60 21420063.69 0.2675 0.1255

Earth 53934-01-16 02:38 G 21420063.51 21420063.61 21420063.71 0.2669 0.1171 *

Jupiter 53935-12-22 07:41 G 21420768.70 21420768.82 21420768.95 0.0524 0.0061

Moon 53936-07-22 06:14 G 21420981.60 21420981.76 21420981.92 0.2668 0.0057

Earth 53936-07-22 07:55 G 21420981.67 21420981.83 21420981.98 0.2664 0.0155 *

Mars 53937-08-27 00:14 G 21421382.41 21421382.51 21421382.62 0.1769 0.0667

Mars 53938-06-23 06:58 G 21421682.63 21421682.79 21421682.94 0.1764 0.0586

Saturn 53940-10-14 14:10 G 21422526.99 21422527.09 21422527.20 0.0298 0.0183

Saturn 53941-01-11 02:38 G 21422615.48 21422615.61 21422615.75 0.0298 0.0011

Saturn 53941-04-09 15:07 G 21422704.03 21422704.13 21422704.24 0.0298 0.0176

Jupiter 53942-02-05 17:02 G 21423006.13 21423006.21 21423006.30 0.0501 0.0447

Jupiter 53942-05-07 03:36 G 21423096.55 21423096.65 21423096.76 0.0504 0.0411

Pluto 53943-10-08 12:58 G 21423615.92 21423616.04 21423616.16 0.0077 0.0057

Pluto 53944-01-04 15:07 G 21423703.97 21423704.13 21423704.30 0.0077 0.0036

Pluto 53944-04-01 17:31 G 21423792.05 21423792.23 21423792.41 0.0077 0.0015

Pluto 53944-06-28 19:41 G 21423880.14 21423880.32 21423880.51 0.0077 0.0007

Pluto 53944-09-24 21:50 G 21423968.25 21423968.41 21423968.60 0.0076 0.0028

Pluto 53944-12-22 00:00 G 21424056.37 21424056.50 21424056.66 0.0076 0.0048

Pluto 53945-03-20 02:10 G 21424144.53 21424144.59 21424144.69 0.0076 0.0069

Mars 53947-01-17 10:05 G 21424812.80 21424812.92 21424813.03 0.1762 0.0409

Earth 53947-01-18 20:24 G 21424814.24 21424814.35 21424814.46 0.2668 0.0063

Moon 53947-01-18 20:38 G 21424814.25 21424814.36 21424814.47 0.2674 0.0080 *

Jupiter 53947-10-10 12:00 G 21425078.88 21425079.00 21425079.11 0.0525 0.0223

Jupiter 53948-01-07 17:17 G 21425168.15 21425168.22 21425168.29 0.0522 0.0418

Venus 53948-04-05 07:12 G 21425256.75 21425256.80 21425256.84 0.3686 0.3257

Moon 53949-07-25 14:38 G 21425733.07 21425733.11 21425733.15 0.2671 0.2578

Venus 53953-10-19 22:05 G 21427280.33 21427280.42 21427280.52 0.3685 0.0920

Jupiter 53954-02-23 00:58 G 21427406.37 21427406.54 21427406.71 0.0503 0.0203

Saturn 53955-05-06 08:24 G 21427843.68 21427843.85 21427844.02 0.0263 0.0114

Saturn 53955-08-03 04:48 G 21427932.52 21427932.70 21427932.89 0.0263 0.0065

Saturn 53955-10-31 01:12 G 21428021.50 21428021.55 21428021.63 0.0263 0.0246

Mars 53956-06-08 19:26 G 21428243.25 21428243.31 21428243.37 0.1755 0.1489

Venus 53959-05-05 13:12 G 21429303.96 21429304.05 21429304.14 0.3685 0.1424

Jupiter 53959-07-29 15:36 G 21429389.07 21429389.15 21429389.24 0.0526 0.0395

Jupiter 53959-10-26 21:22 G 21429478.28 21429478.39 21429478.50 0.0523 0.0253

Earth 53960-01-21 13:55 G 21429564.98 21429565.08 21429565.18 0.2667 0.1211

Moon 53960-01-21 14:24 G 21429565.01 21429565.10 21429565.20 0.2670 0.1313 *

Jupiter 53965-12-11 21:50 G 21431716.23 21431716.41 21431716.60 0.0502 0.0017

Moon 53967-01-14 13:12 G 21432114.99 21432115.05 21432115.10 0.2674 0.2302

Earth 53967-01-14 13:41 G 21432115.01 21432115.07 21432115.14 0.2670 0.2156 *

Mars 53968-08-01 08:24 G 21432679.76 21432679.85 21432679.94 0.1757 0.1460

Uranus 53969-03-18 03:50 G 21432908.60 21432908.66 21432908.73 0.0139 0.0119

Uranus 53969-06-14 07:12 G 21432996.71 21432996.80 21432996.90 0.0139 0.0098

Moon 53969-07-20 05:46 G 21433032.64 21433032.74 21433032.83 0.2662 0.2137

Earth 53969-07-20 07:12 G 21433032.70 21433032.80 21433032.91 0.2663 0.1948 *

Uranus 53969-09-10 10:19 G 21433084.83 21433084.93 21433085.05 0.0139 0.0078

Uranus 53969-12-07 13:41 G 21433172.96 21433173.07 21433173.20 0.0139 0.0058

Saturn 53970-03-03 16:19 G 21433259.10 21433259.18 21433259.27 0.0297 0.0232

Uranus 53970-03-05 17:02 G 21433261.09 21433261.21 21433261.34 0.0139 0.0037

Saturn 53970-05-31 05:02 G 21433347.58 21433347.71 21433347.84 0.0298 0.0052

Uranus 53970-06-01 20:24 G 21433349.22 21433349.35 21433349.48 0.0139 0.0016

Saturn 53970-08-27 17:31 G 21433436.11 21433436.23 21433436.34 0.0298 0.0127

Uranus 53970-08-28 23:46 G 21433437.36 21433437.49 21433437.62 0.0139 0.0006

Uranus 53970-11-25 02:53 G 21433525.49 21433525.62 21433525.75 0.0139 0.0026

Uranus 53971-02-21 06:14 G 21433613.64 21433613.76 21433613.88 0.0140 0.0046

Uranus 53971-05-20 09:36 G 21433701.78 21433701.90 21433702.01 0.0140 0.0067

Jupiter 53971-08-15 01:55 G 21433788.45 21433788.58 21433788.70 0.0524 0.0100

Uranus 53971-08-16 12:43 G 21433789.93 21433790.03 21433790.13 0.0140 0.0088

Uranus 53971-11-12 15:50 G 21433878.09 21433878.16 21433878.25 0.0140 0.0109

Uranus 53972-02-08 19:12 G 21433966.26 21433966.30 21433966.35 0.0140 0.0129

Earth 53973-01-23 07:26 G 21434315.76 21434315.81 21434315.86 0.2666 0.2377

Moon 53973-01-23 08:10 G 21434315.79 21434315.84 21434315.88 0.2663 0.2410 *

Venus 53973-03-08 12:00 G 21434359.90 21434360.00 21434360.10 0.3685 0.2906

Mars 53977-02-25 00:29 G 21435809.41 21435809.52 21435809.62 0.1769 0.0821

Jupiter 53977-09-29 17:46 G 21436026.08 21436026.24 21436026.40 0.0502 0.0242

Mars 53977-12-22 07:26 G 21436109.65 21436109.81 21436109.97 0.1764 0.0352

Moon 53980-01-17 07:12 G 21436865.70 21436865.80 21436865.91 0.2675 0.0936

Earth 53980-01-17 07:26 G 21436865.71 21436865.81 21436865.92 0.2669 0.0946 *

Moon 53982-07-23 12:58 G 21437783.89 21437784.04 21437784.20 0.2668 0.0385

Earth 53982-07-23 14:38 G 21437783.95 21437784.11 21437784.26 0.2664 0.0612 *

Jupiter 53983-06-03 06:43 G 21438098.65 21438098.78 21438098.90 0.0525 0.0052

Saturn 53984-09-22 08:24 G 21438575.70 21438575.85 21438576.00 0.0263 0.0159

Saturn 53984-12-20 04:48 G 21438664.51 21438664.70 21438664.88 0.0263 0.0019

Saturn 53985-03-19 01:12 G 21438753.43 21438753.55 21438753.68 0.0263 0.0198

Mars 53986-07-18 10:05 G 21439239.80 21439239.92 21439240.03 0.1762 0.0268

Neptune 53989-06-10 04:19 G 21440297.64 21440297.68 21440297.74 0.0089 0.0082

Jupiter 53989-07-18 15:07 G 21440336.05 21440336.13 21440336.22 0.0501 0.0444

Neptune 53989-09-06 05:46 G 21440385.67 21440385.74 21440385.81 0.0089 0.0074

Jupiter 53989-10-17 01:41 G 21440426.47 21440426.57 21440426.68 0.0504 0.0412

Neptune 53989-12-03 07:12 G 21440473.71 21440473.80 21440473.89 0.0089 0.0066

Neptune 53990-03-01 08:24 G 21440561.76 21440561.85 21440561.95 0.0089 0.0058

Neptune 53990-05-28 09:36 G 21440649.80 21440649.90 21440650.02 0.0089 0.0051

Neptune 53990-08-24 11:02 G 21440737.85 21440737.96 21440738.08 0.0089 0.0043

Neptune 53990-11-20 12:14 G 21440825.90 21440826.01 21440826.14 0.0089 0.0035

Neptune 53991-02-16 13:41 G 21440913.95 21440914.07 21440914.20 0.0089 0.0027

Neptune 53991-05-15 15:07 G 21441002.00 21441002.13 21441002.26 0.0089 0.0019

Neptune 53991-08-11 16:19 G 21441090.05 21441090.18 21441090.32 0.0089 0.0012

Neptune 53991-11-07 17:46 G 21441178.11 21441178.24 21441178.37 0.0089 0.0004

Neptune 53992-02-03 18:58 G 21441266.16 21441266.29 21441266.43 0.0089 0.0005

Neptune 53992-05-01 20:24 G 21441354.22 21441354.35 21441354.48 0.0089 0.0012

Neptune 53992-07-28 21:36 G 21441442.27 21441442.40 21441442.53 0.0089 0.0020

Neptune 53992-10-24 22:48 G 21441530.33 21441530.45 21441530.58 0.0089 0.0028

Earth 53993-01-19 01:12 G 21441616.44 21441616.55 21441616.66 0.2668 0.0263

Moon 53993-01-19 01:26 G 21441616.45 21441616.56 21441616.67 0.2674 0.0272 *

Neptune 53993-01-21 00:00 G 21441618.39 21441618.50 21441618.63 0.0089 0.0036

Neptune 53993-04-19 01:26 G 21441706.45 21441706.56 21441706.68 0.0089 0.0043

Neptune 53993-07-16 02:38 G 21441794.51 21441794.61 21441794.73 0.0089 0.0051

Neptune 53993-10-12 03:50 G 21441882.57 21441882.66 21441882.77 0.0089 0.0059

Neptune 53994-01-08 05:02 G 21441970.64 21441970.71 21441970.81 0.0089 0.0067

Neptune 53994-04-06 06:43 G 21442058.71 21442058.78 21442058.85 0.0089 0.0074

Neptune 53994-07-03 07:41 G 21442146.79 21442146.82 21442146.88 0.0089 0.0082

Jupiter 53995-03-22 11:02 G 21442408.85 21442408.96 21442409.08 0.0525 0.0210

Jupiter 53995-06-19 16:19 G 21442498.12 21442498.18 21442498.26 0.0522 0.0432

Mars 53995-12-08 19:41 G 21442670.24 21442670.32 21442670.39 0.1756 0.1330

Saturn 53999-10-18 05:17 G 21444079.60 21444079.72 21444079.84 0.0298 0.0126

Saturn 54000-01-14 17:46 G 21444168.11 21444168.24 21444168.37 0.0298 0.0053

Saturn 54000-04-12 06:00 G 21444256.68 21444256.75 21444256.84 0.0298 0.0231

55TH MILLENNIUM CE

This is a list of transits of Mercury in the 55th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**54001-08-04 23:02**	**G**	**21444736.30**	**21444736.46**	**21444736.63**	**0.0503**	**0.0206**	
Venus	**54004-11-10 04:19**	**G**	**21445929.61**	**21445929.68**	**21445929.76**	**0.3686**	**0.2400**	
Earth	**54006-01-21 18:43**	**G**	**21446367.19**	**21446367.28**	**21446367.37**	**0.2667**	**0.1433**	
Moon	**54006-01-21 19:26**	**G**	**21446367.22**	**21446367.31**	**21446367.39**	**0.2668**	**0.1522**	*
Jupiter	**54007-01-08 15:22**	**G**	**21446719.05**	**21446719.14**	**21446719.23**	**0.0526**	**0.0372**	
Jupiter	**54007-04-07 20:53**	**G**	**21446808.26**	**21446808.37**	**21446808.48**	**0.0523**	**0.0275**	
Mars	**54008-01-31 08:38**	**G**	**21447106.82**	**21447106.86**	**21447106.91**	**0.1757**	**0.1672**	
Uranus	**54009-07-17 00:14**	**G**	**21447639.41**	**21447639.51**	**21447639.63**	**0.0139**	**0.0114**	
Uranus	**54009-10-13 08:10**	**G**	**21447727.69**	**21447727.84**	**21447728.00**	**0.0139**	**0.0083**	
Uranus	**54010-01-09 16:05**	**G**	**21447816.00**	**21447816.17**	**21447816.36**	**0.0139**	**0.0053**	
Uranus	**54010-04-08 00:14**	**G**	**21447904.31**	**21447904.51**	**21447904.70**	**0.0139**	**0.0022**	
Venus	**54010-05-26 19:26**	**G**	**21447953.21**	**21447953.31**	**21447953.41**	**0.3685**	**0.0047**	
Uranus	**54010-07-05 07:55**	**G**	**21447992.64**	**21447992.83**	**21447993.03**	**0.0139**	**0.0009**	
Uranus	**54010-10-01 15:50**	**G**	**21448080.98**	**21448081.16**	**21448081.35**	**0.0139**	**0.0039**	
Uranus	**54010-12-28 23:46**	**G**	**21448169.33**	**21448169.49**	**21448169.67**	**0.0139**	**0.0069**	
Uranus	**54011-03-27 07:41**	**G**	**21448257.69**	**21448257.82**	**21448257.96**	**0.0139**	**0.0100**	
Uranus	**54011-06-23 15:36**	**G**	**21448346.10**	**21448346.15**	**21448346.23**	**0.0138**	**0.0130**	
Moon	**54013-01-14 18:00**	**G**	**21448917.18**	**21448917.25**	**21448917.32**	**0.2674**	**0.1937**	
Earth	**54013-01-14 18:43**	**G**	**21448917.20**	**21448917.28**	**21448917.35**	**0.2670**	**0.1923**	*
Jupiter	**54013-05-23 20:38**	**G**	**21449046.18**	**21449046.36**	**21449046.55**	**0.0503**	**0.0008**	
Saturn	**54014-02-09 06:00**	**G**	**21449307.66**	**21449307.75**	**21449307.85**	**0.0263**	**0.0224**	
Saturn	**54014-05-09 02:24**	**G**	**21449396.42**	**21449396.60**	**21449396.79**	**0.0263**	**0.0047**	

Saturn 54014-08-05 22:48 G 21449485.29 21449485.45 21449485.62 0.0263 0.0133

Moon 54015-07-21 12:14 G 21449834.89 21449835.01 21449835.13 0.2664 0.1623

Earth 54015-07-21 13:55 G 21449834.95 21449835.08 21449835.21 0.2663 0.1491 *

Venus 54015-12-10 10:19 G 21449976.86 21449976.93 21449977.01 0.3685 0.2277

Mars 54016-08-26 00:14 G 21450236.41 21450236.51 21450236.61 0.1769 0.0958

Mars 54017-06-22 07:55 G 21450536.67 21450536.83 21450537.00 0.1765 0.0130

Earth 54019-01-24 12:14 G 21451117.99 21451118.01 21451118.03 0.2666 0.2594

Jupiter 54019-01-25 00:58 G 21451118.41 21451118.54 21451118.66 0.0524 0.0109

Venus 54024-03-29 03:07 G 21453008.56 21453008.63 21453008.70 0.3685 0.3295

Jupiter 54025-03-11 17:46 G 21453356.08 21453356.24 21453356.41 0.0502 0.0209

Mars 54026-01-16 10:05 G 21453666.80 21453666.92 21453667.03 0.1762 0.0120

Moon 54026-01-17 12:14 G 21453667.91 21453668.01 21453668.12 0.2675 0.0779

Earth 54026-01-17 12:14 G 21453667.91 21453668.01 21453668.12 0.2669 0.0716 *

Moon 54028-07-23 19:55 G 21454586.18 21454586.33 21454586.47 0.2668 0.0964

Earth 54028-07-23 21:07 G 21454586.24 21454586.38 21454586.53 0.2664 0.1074 *

Saturn 54029-03-06 07:12 G 21454811.70 21454811.80 21454811.90 0.0297 0.0180

Saturn 54029-06-02 19:41 G 21454900.19 21454900.32 21454900.45 0.0298 0.0001

Saturn 54029-08-30 08:10 G 21454988.73 21454988.84 21454988.94 0.0298 0.0178

Jupiter 54030-11-13 05:31 G 21455428.60 21455428.73 21455428.85 0.0525 0.0050

Mars 54035-06-08 19:41 G 21457097.23 21457097.32 21457097.40 0.1756 0.1175

Jupiter 54036-12-28 13:41 G 21457665.99 21457666.07 21457666.16 0.0501 0.0436

Jupiter 54037-03-29 00:14 G 21457756.41 21457756.51 21457756.61 0.0504 0.0420

Earth 54039-01-20 06:00 G 21458418.64 21458418.75 21458418.85 0.2668 0.0483

Moon 54039-01-20 06:14 G 21458418.66 21458418.76 21458418.87 0.2674 0.0570 *

Jupiter 54042-09-01 10:05 G 21459738.80 21459738.92 21459739.04 0.0526 0.0200

Jupiter 54042-11-29 15:22 G 21459828.08 21459828.14 21459828.21 0.0523 0.0443

Saturn 54043-09-26 02:10 G 21460128.42 21460128.59 21460128.77 0.0263 0.0093

Saturn 54043-12-23 22:34 G 21460217.27 21460217.44 21460217.62 0.0263 0.0086

Jupiter 54049-01-14 21:22 G 21462066.22 21462066.39 21462066.56 0.0503 0.0210

Earth 54052-01-22 23:31 G 21463169.39 21463169.48 21463169.56 0.2667 0.1656

Moon 54052-01-23 00:14 G 21463169.43 21463169.51 21463169.59 0.2667 0.1718 *

Uranus 54053-01-09 08:24 G 21463521.82 21463521.85 21463521.90 0.0139 0.0131

Uranus 54053-04-07 11:46 G 21463609.92 21463609.99 21463610.08 0.0139 0.0110

Uranus 54053-07-04 15:07 G 21463698.03 21463698.13 21463698.23 0.0139 0.0090

Uranus 54053-09-30 18:29 G 21463786.16 21463786.27 21463786.38 0.0139 0.0069

Uranus 54053-12-27 21:50 G 21463874.28 21463874.41 21463874.53 0.0139 0.0048

Uranus 54054-03-26 00:58 G 21463962.42 21463962.54 21463962.67 0.0139 0.0028

Jupiter 54054-06-20 14:38 G 21464049.01 21464049.11 21464049.20 0.0526 0.0358

Uranus 54054-06-22 04:19 G 21464050.55 21464050.68 21464050.81 0.0139 0.0007

Jupiter 54054-09-17 20:10 G 21464138.23 21464138.34 21464138.44 0.0523 0.0290

Uranus 54054-09-18 07:41 G 21464138.69 21464138.82 21464138.95 0.0139 0.0014

Uranus 54054-12-15 10:48 G 21464226.83 21464226.95 21464227.08 0.0140 0.0035

Uranus 54055-03-13 14:10 G 21464314.97 21464315.09 21464315.21 0.0140 0.0055

Uranus 54055-06-09 17:17 G 21464403.12 21464403.22 21464403.34 0.0140 0.0076

Uranus 54055-09-05 20:38 G 21464491.27 21464491.36 21464491.46 0.0140 0.0097

Uranus 54055-12-03 00:00 G 21464579.43 21464579.50 21464579.57 0.0140 0.0117

Mars 54056-02-25 00:14 G 21464663.42 21464663.51 21464663.61 0.1769 0.1114

Uranus 54056-02-29 03:07 G 21464667.62 21464667.63 21464667.65 0.0140 0.0138

Mars 54056-12-21 08:38 G 21464963.70 21464963.86 21464964.02 0.1764 0.0112

Saturn 54058-07-24 07:26 G 21465543.74 21465543.81 21465543.87 0.0297 0.0255

Saturn 54058-10-20 19:55 G 21465632.21 21465632.33 21465632.46 0.0298 0.0076

Moon 54059-01-15 22:48 G 21465719.38 21465719.45 21465719.53 0.2674 0.1821

Earth 54059-01-15 23:31 G 21465719.39 21465719.48 21465719.56 0.2670 0.1689 *

Saturn 54059-01-17 08:24 G 21465720.73 21465720.85 21465720.97 0.0298 0.0103

Saturn 54059-04-15 20:38 G 21465809.33 21465809.36 21465809.41 0.0298 0.0281

Jupiter 54060-11-02 18:58 G 21466376.11 21466376.29 21466376.48 0.0503 0.0005

Venus 54061-06-17 01:41 G 21466602.48 21466602.57 21466602.66 0.3685 0.1528

Moon 54061-07-21 18:43 G 21466637.15 21466637.28 21466637.42 0.2665 0.1312

Earth 54061-07-21 20:24 G 21466637.21 21466637.35 21466637.50 0.2663 0.1045 *

Mars 54065-07-17 10:05 G 21468093.80 21468093.92 21468094.04 0.1762 0.0057

Jupiter 54066-04-08 18:43 G 21468359.27 21468359.28 21468359.29 0.0527 0.0521

Mars 54066-05-13 07:55 G 21468393.79 21468393.83 21468393.87 0.1772 0.1699

Jupiter 54066-07-07 00:29 G 21468448.40 21468448.52 21468448.65 0.0524 0.0133

Venus 54066-12-31 16:48 G 21468626.10 21468626.20 21468626.29 0.3685 0.0828

Moon 54072-01-18 17:17 G 21470470.11 21470470.22 21470470.32 0.2676 0.0423

Earth 54072-01-18 17:02 G 21470470.11 21470470.21 21470470.32 0.2669 0.0492 *

Venus 54072-07-16 07:41 G 21470649.77 21470649.82 21470649.87 0.3685 0.3136

Jupiter 54072-08-21 16:34 G 21470686.02 21470686.19 21470686.36 0.0502 0.0197

Saturn 54073-02-11 23:31 G 21470860.33 21470860.48 21470860.63 0.0263 0.0161

Saturn 54073-05-11 19:55 G 21470949.14 21470949.33 21470949.52 0.0263 0.0017

Saturn 54073-08-08 16:19 G 21471038.06 21471038.18 21471038.31 0.0263 0.0197

Neptune 54073-08-08 17:31 G 21471038.22 21471038.23 21471038.25 0.0088 0.0088 *

Neptune 54073-11-04 20:53 G 21471126.29 21471126.37 21471126.47 0.0088 0.0077

Neptune 54074-02-01 00:29 G 21471214.40 21471214.52 21471214.66 0.0088 0.0066

Neptune 54074-04-30 04:05 G 21471302.52 21471302.67 21471302.83 0.0088 0.0054

Moon 54074-07-25 02:53 G 21471388.49 21471388.62 21471388.75 0.2669 0.1426

Earth 54074-07-25 03:50 G 21471388.54 21471388.66 21471388.79 0.2665 0.1541 *

Neptune 54074-07-27 07:26 G 21471390.66 21471390.81 21471390.99 0.0088 0.0044

Neptune 54074-10-23 11:02 G 21471478.79 21471478.96 21471479.16 0.0088 0.0033

Mars 54074-12-07 19:26 G 21471524.22 21471524.31 21471524.41 0.1756 0.1036

Neptune 54075-01-19 14:53 G 21471566.93 21471567.12 21471567.31 0.0088 0.0021

Neptune 54075-04-17 18:29 G 21471655.08 21471655.27 21471655.47 0.0088 0.0010

Neptune 54075-07-14 22:05 G 21471743.23 21471743.42 21471743.62 0.0088 0.0002

Neptune 54075-10-11 01:41 G 21471831.38 21471831.57 21471831.77 0.0088 0.0013

Neptune 54076-01-07 05:17 G 21471919.54 21471919.72 21471919.91 0.0088 0.0024

Neptune 54076-04-04 08:53 G 21472007.70 21472007.87 21472008.05 0.0088 0.0036

Neptune 54076-07-01 12:14 G 21472095.86 21472096.01 21472096.19 0.0088 0.0048

Neptune 54076-09-27 15:50 G 21472184.03 21472184.16 21472184.32 0.0088 0.0059

Neptune 54076-12-24 19:41 G 21472272.21 21472272.32 21472272.45 0.0088 0.0070

Neptune 54077-03-22 23:02 G 21472360.40 21472360.46 21472360.55 0.0088 0.0082

Jupiter 54078-04-25 04:34 G 21472758.56 21472758.69 21472758.81 0.0525 0.0036

Venus 54080-11-03 05:46 G 21473681.58 21473681.74 21473681.90 0.3685 0.0288

Jupiter 54084-06-09 13:55 G 21474995.98 21474996.08 21474996.19 0.0501 0.0402

Jupiter 54084-09-08 00:29 G 21475086.44 21475086.52 21475086.60 0.0504 0.0455

Earth 54085-01-20 10:48 G 21475220.84 21475220.95 21475221.05 0.2668 0.0710

Moon 54085-01-20 11:17 G 21475220.86 21475220.97 21475221.07 0.2672 0.0718 *

Saturn 54088-03-08 21:36 G 21476364.29 21476364.40 21476364.52 0.0297 0.0131

Saturn 54088-06-05 10:19 G 21476452.80 21476452.93 21476453.05 0.0298 0.0049

Saturn 54088-09-01 22:34 G 21476541.36 21476541.44 21476541.53 0.0298 0.0226

Jupiter 54090-02-11 08:53 G 21477068.75 21477068.87 21477068.99 0.0525 0.0193

Jupiter 54090-05-11 14:24 G 21477158.03 21477158.10 21477158.16 0.0523 0.0449

Uranus 54093-05-10 00:43 G 21478252.48 21478252.53 21478252.61 0.0139 0.0132

Uranus 54093-08-06 08:38 G 21478340.74 21478340.86 21478341.00 0.0139 0.0101

Uranus 54093-11-02 16:34 G 21478429.03 21478429.19 21478429.37 0.0139 0.0071

Uranus 54094-01-30 00:43 G 21478517.34 21478517.53 21478517.72 0.0139 0.0040

Uranus 54094-04-28 08:38 G 21478605.67 21478605.86 21478606.05 0.0139 0.0010

Uranus 54094-07-25 16:34 G 21478694.00 21478694.19 21478694.38 0.0139 0.0020

Uranus 54094-10-22 00:29 G 21478782.34 21478782.52 21478782.70 0.0139 0.0051

Uranus 54095-01-18 08:10 G 21478870.69 21478870.84 21478871.01 0.0139 0.0082

Uranus 54095-04-16 16:05 G 21478959.07 21478959.17 21478959.30 0.0139 0.0112

Mars 54095-08-26 00:29 G 21479090.44 21479090.52 21479090.60 0.1769 0.1264

Mars 54096-06-21 09:07 G 21479390.72 21479390.88 21479391.04 0.1764 0.0338

Jupiter 54096-06-26 19:55 G 21479396.17 21479396.33 21479396.50 0.0503 0.0221

Earth 54098-01-23 04:19 G 21479971.60 21479971.68 21479971.75 0.2666 0.1876

Moon 54098-01-23 05:02 G 21479971.64 21479971.71 21479971.78 0.2666 0.2004 *

Jupiter 54101-12-01 13:26 G 21481378.97 21481379.06 21481379.16 0.0527 0.0349

Jupiter 54102-02-28 19:12 G 21481468.19 21481468.30 21481468.40 0.0524 0.0300

Saturn 54102-07-02 23:02 G 21481592.36 21481592.46 21481592.59 0.0264 0.0208

Pluto 54102-08-19 07:26 G 21481639.76 21481639.81 21481639.86 0.0067 0.0062

Saturn 54102-09-29 19:41 G 21481681.13 21481681.32 21481681.51 0.0263 0.0029

Pluto 54102-11-15 07:41 G 21481727.75 21481727.82 21481727.92 0.0067 0.0051

Saturn 54102-12-27 16:05 G 21481770.02 21481770.17 21481770.33 0.0263 0.0151

Pluto 54103-02-11 08:24 G 21481815.75 21481815.85 21481815.97 0.0068 0.0041

Pluto 54103-05-10 09:07 G 21481903.76 21481903.88 21481904.01 0.0068 0.0030

Pluto 54103-08-06 09:36 G 21481991.78 21481991.90 21481992.04 0.0068 0.0019

Pluto 54103-11-02 10:19 G 21482079.80 21482079.93 21482080.07 0.0068 0.0008

Pluto 54104-01-29 11:02 G 21482167.82 21482167.96 21482168.10 0.0068 0.0003

Pluto 54104-04-26 11:31 G 21482255.85 21482255.98 21482256.12 0.0068 0.0014

Pluto 54104-07-23 12:14 G 21482343.88 21482344.01 21482344.14 0.0068 0.0025

Pluto 54104-10-19 12:43 G 21482431.92 21482432.03 21482432.15 0.0068 0.0036

Pluto 54105-01-15 13:12 G 21482519.96 21482520.05 21482520.16 0.0068 0.0048

Mars 54105-01-16 10:05 G 21482520.80 21482520.92 21482521.03 0.1762 0.0195

Moon 54105-01-17 03:50 G 21482521.57 21482521.66 21482521.75 0.2675 0.1473

Earth 54105-01-17 04:19 G 21482521.59 21482521.68 21482521.77 0.2670 0.1457 *

Pluto 54105-04-13 13:55 G 21482608.02 21482608.08 21482608.15 0.0068 0.0059

Mars 54105-11-12 08:38 G 21482820.77 21482820.86 21482820.95 0.1771 0.1450

Moon 54107-07-24 01:26 G 21483439.41 21483439.56 21483439.71 0.2665 0.0683

Earth 54107-07-24 03:07 G 21483439.48 21483439.63 21483439.79 0.2663 0.0586 *

Jupiter 54108-04-15 17:17 G 21483706.04 21483706.22 21483706.41 0.0502 0.0015

Venus 54112-07-09 07:55 G 21485251.77 21485251.83 21485251.88 0.3685 0.3014

Jupiter 54113-09-19 17:46 G 21485689.22 21485689.24 21485689.28 0.0527 0.0509

Jupiter 54113-12-17 23:46 G 21485778.37 21485778.49 21485778.61 0.0524 0.0147

Mars 54114-06-08 19:41 G 21485951.21 21485951.32 21485951.42 0.1756 0.0881

Saturn 54117-07-27 22:05 G 21487096.33 21487096.42 21487096.52 0.0297 0.0203

Saturn 54117-10-24 10:34 G 21487184.81 21487184.94 21487185.07 0.0297 0.0025

Earth 54118-01-19 21:50 G 21487272.30 21487272.41 21487272.52 0.2669 0.0269

Moon 54118-01-19 22:05 G 21487272.31 21487272.42 21487272.53 0.2676 0.0303 *

Saturn 54118-01-20 23:02 G 21487273.35 21487273.46 21487273.57 0.0298 0.0154

Venus 54118-01-22 23:02 G 21487275.36 21487275.46 21487275.55 0.3685 0.0668

Jupiter 54120-02-02 14:53 G 21488015.96 21488016.12 21488016.30 0.0502 0.0191

Moon 54120-07-26 09:50 G 21488190.80 21488190.91 21488191.02 0.2671 0.1888

Earth 54120-07-26 10:34 G 21488190.84 21488190.94 21488191.05 0.2665 0.2006 *

Venus 54123-08-08 13:55 G 21489298.99 21489299.08 21489299.17 0.3685 0.1677

Jupiter 54125-10-06 04:05 G 21490088.55 21490088.67 21490088.80 0.0525 0.0016

Earth 54131-01-22 15:36 G 21492023.05 21492023.15 21492023.25 0.2667 0.0932

Moon 54131-01-22 16:05 G 21492023.07 21492023.17 21492023.27 0.2671 0.1067 *

Jupiter 54131-11-21 12:43 G 21492325.92 21492326.03 21492326.15 0.0501 0.0390

Saturn 54132-02-16 16:48 G 21492413.02 21492413.20 21492413.37 0.0263 0.0100

Jupiter 54132-02-19 23:17 G 21492416.41 21492416.47 21492416.54 0.0504 0.0469

Saturn 54132-05-15 13:12 G 21492501.87 21492502.05 21492502.23 0.0263 0.0079

Saturn 54132-08-12 09:36 G 21492590.89 21492590.90 21492590.94 0.0263 0.0260

Mars 54135-02-25 00:14 G 21493517.44 21493517.51 21493517.58 0.1769 0.1405

Mars 54135-12-22 09:50 G 21493817.76 21493817.91 21493818.06 0.1764 0.0585

Uranus 54137-01-30 16:19 G 21494223.12 21494223.18 21494223.24 0.0139 0.0123

Uranus 54137-04-28 19:26 G 21494311.23 21494311.31 21494311.41 0.0139 0.0103

Venus 54137-06-11 08:24 G 21494354.74 21494354.85 21494354.95 0.3686 0.2721

Jupiter 54137-07-25 08:10 G 21494398.72 21494398.84 21494398.96 0.0525 0.0180

Uranus 54137-07-25 22:48 G 21494399.35 21494399.45 21494399.56 0.0139 0.0082

Uranus 54137-10-22 02:10 G 21494487.48 21494487.59 21494487.71 0.0139 0.0061

Jupiter 54137-10-22 13:26 G 21494488.00 21494488.06 21494488.12 0.0522 0.0461

Moon 54138-01-15 14:38 G 21494573.08 21494573.11 21494573.14 0.2673 0.2545

Earth 54138-01-15 15:22 G 21494573.10 21494573.14 21494573.18 0.2671 0.2446 *

Uranus 54138-01-18 05:31 G 21494575.60 21494575.73 21494575.86 0.0139 0.0041

Uranus 54138-04-16 08:53 G 21494663.74 21494663.87 21494664.00 0.0139 0.0020

Uranus 54138-07-13 12:00 G 21494751.87 21494752.00 21494752.14 0.0139 0.0004

Uranus 54138-10-09 15:22 G 21494840.01 21494840.14 21494840.27 0.0139 0.0021

Uranus 54139-01-05 18:43 G 21494928.15 21494928.28 21494928.40 0.0140 0.0042

Uranus 54139-04-03 21:50 G 21495016.30 21495016.41 21495016.53 0.0140 0.0063

Uranus 54139-07-01 01:12 G 21495104.45 21495104.55 21495104.65 0.0140 0.0083

Uranus 54139-09-27 04:19 G 21495192.60 21495192.68 21495192.77 0.0140 0.0104

Uranus 54139-12-24 07:26 G 21495280.77 21495280.81 21495280.88 0.0140 0.0125

Earth 54140-07-21 02:38 G 21495490.60 21495490.61 21495490.63 0.2662 0.2648

Jupiter 54143-12-08 20:10 G 21496726.19 21496726.34 21496726.51 0.0503 0.0255

Earth 54144-01-25 09:07 G 21496773.81 21496773.88 21496773.94 0.2666 0.2101

Moon 54144-01-25 09:50 G 21496773.85 21496773.91 21496773.97 0.2666 0.2142 *

Mars 54144-07-17 10:05 G 21496947.80 21496947.92 21496948.03 0.1762 0.0339

Mars 54145-05-13 09:07 G 21497247.77 21497247.88 21497248.00 0.1771 0.1223

Saturn 54146-12-14 23:31 G 21497828.43 21497828.48 21497828.55 0.0297 0.0261

Saturn 54147-03-13 12:14 G 21497916.88 21497917.01 21497917.14 0.0297 0.0081

Saturn 54147-06-10 00:43 G 21498005.41 21498005.53 21498005.65 0.0298 0.0097

Saturn 54147-09-06 12:58 G 21498094.00 21498094.04 21498094.09 0.0298 0.0274

Jupiter 54149-05-13 12:29 G 21498708.92 21498709.02 21498709.11 0.0526 0.0341

Jupiter 54149-08-10 18:00 G 21498798.15 21498798.25 21498798.35 0.0523 0.0308

Moon 54151-01-18 08:53 G 21499323.77 21499323.87 21499323.96 0.2676 0.1283

Earth 54151-01-18 09:07 G 21499323.78 21499323.88 21499323.98 0.2670 0.1229 *

Moon 54153-07-24 08:24 G 21500241.69 21500241.85 21500242.00 0.2666 0.0389

Earth 54153-07-24 09:50 G 21500241.75 21500241.91 21500242.07 0.2663 0.0123 *

Mars 54153-12-07 19:41 G 21500378.21 21500378.32 21500378.42 0.1756 0.0726

Neptune 54154-03-08 03:22 G 21500468.60 21500468.64 21500468.70 0.0089 0.0081

Neptune 54154-06-04 04:48 G 21500556.63 21500556.70 21500556.78 0.0089 0.0073

Neptune 54154-08-31 06:14 G 21500644.67 21500644.76 21500644.85 0.0089 0.0065

Neptune 54154-11-27 07:12 G 21500732.71 21500732.80 21500732.92 0.0089 0.0058

Neptune 54155-02-23 08:38 G 21500820.76 21500820.86 21500820.98 0.0089 0.0050

Neptune 54155-05-22 10:05 G 21500908.81 21500908.92 21500909.04 0.0089 0.0042

Neptune 54155-08-18 11:31 G 21500996.86 21500996.98 21500997.10 0.0089 0.0034

Jupiter 54155-09-26 16:05 G 21501035.99 21501036.17 21501036.36 0.0502 0.0024

Neptune 54155-11-14 12:43 G 21501084.91 21501085.03 21501085.16 0.0089 0.0026

Neptune 54156-02-10 14:10 G 21501172.96 21501173.09 21501173.22 0.0089 0.0018

Neptune 54156-05-08 15:22 G 21501261.01 21501261.14 21501261.28 0.0089 0.0011

Neptune 54156-08-04 16:48 G 21501349.07 21501349.20 21501349.33 0.0089 0.0003

Neptune 54156-10-31 18:00 G 21501437.12 21501437.25 21501437.39 0.0089 0.0006

Neptune 54157-01-27 19:26 G 21501525.18 21501525.31 21501525.44 0.0089 0.0013

Neptune 54157-04-25 20:38 G 21501613.24 21501613.36 21501613.49 0.0089 0.0021

Neptune 54157-07-22 21:50 G 21501701.29 21501701.41 21501701.54 0.0089 0.0029

Neptune 54157-10-18 23:02 G 21501789.35 21501789.46 21501789.59 0.0089 0.0037

Neptune 54158-01-15 00:29 G 21501877.41 21501877.52 21501877.64 0.0089 0.0044

Neptune 54158-04-13 01:41 G 21501965.47 21501965.57 21501965.69 0.0089 0.0052

Neptune 54158-07-10 02:53 G 21502053.54 21502053.62 21502053.73 0.0089 0.0060

Neptune 54158-10-06 04:34 G 21502141.60 21502141.69 21502141.77 0.0089 0.0067

Neptune 54159-01-02 05:46 G 21502229.67 21502229.74 21502229.81 0.0089 0.0075

Neptune 54159-03-31 06:43 G 21502317.75 21502317.78 21502317.84 0.0089 0.0083

Jupiter 54161-03-01 16:48 G 21503019.17 21503019.20 21503019.24 0.0527 0.0501

Jupiter 54161-05-29 22:48 G 21503108.32 21503108.45 21503108.57 0.0525 0.0156

Saturn 54161-07-05 16:34 G 21503145.04 21503145.19 21503145.35 0.0264 0.0145

Saturn 54161-10-02 12:58 G 21503233.86 21503234.04 21503234.23 0.0264 0.0034

Saturn 54161-12-30 09:36 G 21503322.79 21503322.90 21503323.01 0.0263 0.0214

Earth 54164-01-21 02:38 G 21504074.50 21504074.61 21504074.72 0.2668 0.0111

Moon 54164-01-21 02:53 G 21504074.51 21504074.62 21504074.73 0.2675 0.0057 *

Moon 54166-07-27 16:48 G 21504993.15 21504993.20 21504993.25 0.2672 0.2494

Earth 54166-07-27 17:31 G 21504993.17 21504993.23 21504993.28 0.2665 0.2480 *

Jupiter 54167-07-15 13:26 G 21505345.89 21505346.06 21505346.23 0.0501 0.0183

Venus 54169-02-13 05:17 G 21505924.63 21505924.72 21505924.80 0.3685 0.2143

Jupiter 54173-03-18 03:22 G 21507418.51 21507418.64 21507418.76 0.0525 0.0014

Mars 54174-08-26 00:14 G 21507944.46 21507944.51 21507944.57 0.1769 0.1552

Venus 54174-08-29 20:10 G 21507948.24 21507948.34 21507948.44 0.3685 0.0239

Mars 54175-06-22 10:19 G 21508244.79 21508244.93 21508245.07 0.1764 0.0801

Saturn 54176-07-30 12:58 G 21508648.93 21508649.04 21508649.16 0.0297 0.0149

Saturn 54176-10-27 01:26 G 21508737.43 21508737.56 21508737.69 0.0297 0.0030

Earth 54177-01-22 20:24 G 21508825.25 21508825.35 21508825.45 0.2667 0.1158

Moon 54177-01-22 21:07 G 21508825.28 21508825.38 21508825.47 0.2670 0.1184 *

Saturn 54177-01-23 13:55 G 21508825.98 21508826.08 21508826.17 0.0298 0.0207

Uranus 54177-05-31 09:22 G 21508953.81 21508953.89 21508954.00 0.0139 0.0119

Uranus 54177-08-27 17:31 G 21509042.08 21509042.23 21509042.38 0.0139 0.0089

Uranus 54177-11-24 01:26 G 21509130.39 21509130.56 21509130.74 0.0139 0.0058

Uranus 54178-02-20 09:22 G 21509218.70 21509218.89 21509219.08 0.0139 0.0028

Uranus 54178-05-19 17:17 G 21509307.03 21509307.22 21509307.42 0.0139 0.0003

Uranus 54178-08-16 01:12 G 21509395.36 21509395.55 21509395.74 0.0139 0.0033

Uranus 54178-11-12 08:53 G 21509483.71 21509483.87 21509484.06 0.0139 0.0064

Uranus 54179-02-08 17:02 G 21509572.07 21509572.21 21509572.36 0.0139 0.0094

Jupiter 54179-05-03 11:02 G 21509655.85 21509655.96 21509656.08 0.0501 0.0385

Uranus 54179-05-08 00:43 G 21509660.46 21509660.53 21509660.63 0.0139 0.0125

Jupiter 54179-08-01 21:36 G 21509746.34 21509746.40 21509746.46 0.0504 0.0473

Venus 54180-03-14 11:17 G 21509971.90 21509971.97 21509972.04 0.3685 0.2543

Mars 54184-01-16 10:05 G 21511374.80 21511374.92 21511375.03 0.1762 0.0490

Moon 54184-01-16 19:26 G 21511375.26 21511375.31 21511375.37 0.2673 0.2276

Earth 54184-01-16 20:10 G 21511375.28 21511375.34 21511375.40 0.2671 0.2211 *

Mars 54184-11-11 09:36 G 21511674.77 21511674.90 21511675.03 0.1772 0.1006

Jupiter 54185-01-04 07:41 G 21511728.70 21511728.82 21511728.94 0.0525 0.0160

Jupiter 54185-04-03 12:58 G 21511817.99 21511818.04 21511818.09 0.0523 0.0481

Moon 54186-07-22 07:41 G 21512292.76 21512292.82 21512292.87 0.2662 0.2476

Earth 54186-07-22 09:22 G 21512292.80 21512292.89 21512292.98 0.2662 0.2194 *

Venus 54188-07-01 23:31 G 21513003.42 21513003.48 21513003.53 0.3685 0.3469

Pluto 54189-06-08 02:10 G 21513344.48 21513344.59 21513344.71 0.0077 0.0059

Pluto 54189-09-04 04:34 G 21513432.53 21513432.69 21513432.85 0.0077 0.0038

Pluto 54189-12-01 06:58 G 21513520.61 21513520.79 21513520.97 0.0077 0.0017

Earth 54190-01-25 13:55 G 21513576.03 21513576.08 21513576.13 0.2666 0.2320

Moon 54190-01-25 14:24 G 21513576.06 21513576.10 21513576.14 0.2664 0.2454 *

Pluto 54190-02-27 09:07 G 21513608.70 21513608.88 21513609.07 0.0077 0.0004

Pluto 54190-05-26 11:17 G 21513696.80 21513696.97 21513697.15 0.0076 0.0025

Pluto 54190-08-22 13:26 G 21513784.93 21513785.06 21513785.22 0.0076 0.0046

Pluto 54190-11-18 15:36 G 21513873.08 21513873.15 21513873.25 0.0076 0.0067

Saturn 54190-11-22 13:26 G 21513876.97 21513877.06 21513877.18 0.0264 0.0216

Saturn 54191-02-19 10:05 G 21513965.73 21513965.92 21513966.11 0.0263 0.0037

Saturn 54191-05-19 06:29 G 21514054.62 21514054.77 21514054.93 0.0263 0.0143

Jupiter 54191-05-20 18:58 G 21514056.14 21514056.29 21514056.45 0.0503 0.0266

Mars 54193-06-07 19:26 G 21514805.20 21514805.31 21514805.42 0.1756 0.0589

Jupiter 54196-10-23 11:31 G 21516038.88 21516038.98 21516039.08 0.0526 0.0329

Moon 54197-01-18 13:41 G 21516125.97 21516126.07 21516126.17 0.2676 0.1025

Earth 54197-01-18 13:55 G 21516125.98 21516126.08 21516126.18 0.2669 0.0999 *

Jupiter 54197-01-20 17:02 G 21516128.11 21516128.21 21516128.31 0.0523 0.0319

Moon 54199-07-25 15:07 G 21517043.98 21517044.13 21517044.29 0.2668 0.0307

Earth 54199-07-25 16:34 G 21517044.03 21517044.19 21517044.35 0.2664 0.0334 *

Mars 54202-10-30 05:17 G 21518235.68 21518235.72 21518235.75 0.1749 0.1638

Jupiter 54203-03-09 16:05 G 21518365.99 21518366.17 21518366.36 0.0502 0.0055

Saturn 54205-12-18 14:38 G 21519381.02 21519381.11 21519381.20 0.0297 0.0206

Saturn 54206-03-17 03:07 G 21519469.50 21519469.63 21519469.76 0.0297 0.0027

Saturn 54206-06-13 15:36 G 21519558.04 21519558.15 21519558.26 0.0297 0.0151

Jupiter 54208-08-12 15:36 G 21520349.11 21520349.15 21520349.20 0.0527 0.0493

Jupiter 54208-11-09 21:36 G 21520438.28 21520438.40 21520438.52 0.0524 0.0163

Earth 54210-01-22 07:26 G 21520876.71 21520876.81 21520876.92 0.2668 0.0226

Moon 54210-01-22 07:55 G 21520876.72 21520876.83 21520876.94 0.2674 0.0217 *

Mars 54214-02-25 00:29 G 21522371.49 21522371.52 21522371.54 0.1769 0.1708

Mars 54214-12-22 10:48 G 21522671.82 21522671.95 21522672.09 0.1764 0.1035

Jupiter 54214-12-26 12:14 G 21522675.84 21522676.01 21522676.18 0.0501 0.0172

Venus 54220-03-07 11:17 G 21524573.96 21524573.97 21524573.99 0.3685 0.3628

Saturn 54220-04-11 13:41 G 21524609.04 21524609.07 21524609.11 0.0264 0.0259

Saturn 54220-07-09 10:05 G 21524697.74 21524697.92 21524698.10 0.0264 0.0081

Jupiter 54220-08-29 01:55 G 21524748.46 21524748.58 21524748.71 0.0525 0.0020

Saturn 54220-10-06 06:29 G 21524786.60 21524786.77 21524786.95 0.0264 0.0100

Uranus 54220-11-24 20:38 G 21524836.34 21524836.36 21524836.39 0.0139 0.0136

Uranus 54221-02-21 00:00 G 21524924.43 21524924.50 21524924.58 0.0139 0.0115

Uranus 54221-05-20 03:22 G 21525012.55 21525012.64 21525012.74 0.0139 0.0094

Uranus 54221-08-16 06:43 G 21525100.67 21525100.78 21525100.89 0.0139 0.0074

Uranus 54221-11-12 10:05 G 21525188.80 21525188.92 21525189.04 0.0139 0.0053

Uranus 54222-02-08 13:12 G 21525276.93 21525277.05 21525277.18 0.0139 0.0033

Uranus 54222-05-07 16:34 G 21525365.06 21525365.19 21525365.32 0.0139 0.0012

Uranus 54222-08-03 19:55 G 21525453.20 21525453.33 21525453.46 0.0139 0.0009

Uranus 54222-10-30 23:02 G 21525541.34 21525541.46 21525541.59 0.0139 0.0030

Earth 54223-01-25 01:12 G 21525627.46 21525627.55 21525627.64 0.2667 0.1378

Moon 54223-01-25 01:55 G 21525627.49 21525627.58 21525627.67 0.2670 0.1524 *

Uranus 54223-01-27 02:24 G 21525629.48 21525629.60 21525629.72 0.0140 0.0050

Uranus 54223-04-25 05:31 G 21525717.63 21525717.73 21525717.85 0.0140 0.0071

Mars 54223-07-18 10:05 G 21525801.81 21525801.92 21525802.03 0.1762 0.0636

Uranus 54223-07-22 08:53 G 21525805.78 21525805.87 21525805.97 0.0140 0.0091

Uranus 54223-10-18 12:00 G 21525893.93 21525894.00 21525894.09 0.0140 0.0112

Uranus 54224-01-14 15:22 G 21525982.11 21525982.14 21525982.19 0.0140 0.0133

Mars 54224-05-13 10:19 G 21526101.78 21526101.93 21526102.07 0.1771 0.0770

Venus 54225-09-21 02:24 G 21526597.51 21526597.60 21526597.70 0.3685 0.1264

Jupiter 54226-10-14 09:36 G 21526985.78 21526985.90 21526986.02 0.0501 0.0376

Jupiter 54227-01-12 19:55 G 21527076.28 21527076.33 21527076.39 0.0503 0.0479

Moon 54230-01-18 00:29 G 21528177.45 21528177.52 21528177.58 0.2674 0.2095

Earth 54230-01-18 00:58 G 21528177.47 21528177.54 21528177.61 0.2670 0.1979 *

Venus 54231-04-06 17:31 G 21528621.13 21528621.23 21528621.32 0.3685 0.1079

Jupiter 54232-06-17 06:29 G 21529058.65 21529058.77 21529058.89 0.0526 0.0152

Moon 54232-07-23 14:10 G 21529094.98 21529095.09 21529095.20 0.2663 0.1865

Earth 54232-07-23 16:05 G 21529095.05 21529095.17 21529095.28 0.2662 0.1748 *

Jupiter 54232-09-14 12:00 G 21529147.96 21529148.00 21529148.04 0.0523 0.0490

Mars 54232-12-07 19:41 G 21529232.20 21529232.32 21529232.43 0.1756 0.0432

Saturn 54235-05-07 15:50 G 21530113.10 21530113.16 21530113.21 0.0296 0.0267

Saturn 54235-08-04 04:19 G 21530201.56 21530201.68 21530201.81 0.0297 0.0089

Saturn 54235-10-31 16:48 G 21530290.07 21530290.20 21530290.32 0.0297 0.0089

Earth 54236-01-27 18:43 G 21530378.25 21530378.28 21530378.31 0.2666 0.2544

Moon 54236-01-27 19:12 G 21530378.27 21530378.30 21530378.33 0.2662 0.2548 *

Saturn 54236-01-28 05:02 G 21530378.65 21530378.71 21530378.77 0.0297 0.0265

Venus 54236-10-20 08:24 G 21530644.82 21530644.85 21530644.89 0.3685 0.3409

Neptune 54238-05-07 13:55 G 21531209.07 21531209.08 21531209.13 0.0088 0.0087

Neptune 54238-08-03 18:00 G 21531297.15 21531297.25 21531297.35 0.0088 0.0076

Neptune 54238-10-30 21:22 G 21531385.27 21531385.39 21531385.53 0.0088 0.0065

Jupiter 54238-10-31 17:02 G 21531386.06 21531386.21 21531386.37 0.0503 0.0269

Neptune 54239-01-27 00:58 G 21531473.39 21531473.54 21531473.70 0.0088 0.0054

Neptune 54239-04-25 04:34 G 21531561.52 21531561.69 21531561.86 0.0088 0.0042

Neptune 54239-07-22 07:55 G 21531649.66 21531649.83 21531650.02 0.0088 0.0032

Neptune 54239-10-18 11:31 G 21531737.80 21531737.98 21531738.18 0.0088 0.0021

Neptune 54240-01-14 15:22 G 21531825.95 21531826.14 21531826.33 0.0088 0.0009

Neptune 54240-04-11 18:58 G 21531914.10 21531914.29 21531914.49 0.0088 0.0003

Neptune 54240-07-08 22:34 G 21532002.25 21532002.44 21532002.63 0.0088 0.0014

Neptune 54240-10-05 01:55 G 21532090.40 21532090.58 21532090.78 0.0088 0.0026

Neptune 54241-01-01 05:31 G 21532178.56 21532178.73 21532178.92 0.0088 0.0037

Neptune 54241-03-30 09:22 G 21532266.73 21532266.89 21532267.05 0.0088 0.0048

Neptune 54241-06-26 12:43 G 21532354.90 21532355.03 21532355.19 0.0088 0.0059

Neptune 54241-09-22 16:19 G 21532443.08 21532443.18 21532443.31 0.0088 0.0071

Neptune 54241-12-19 19:41 G 21532531.27 21532531.32 21532531.42 0.0088 0.0083

Mars 54242-04-30 05:02 G 21532662.65 21532662.71 21532662.77 0.1749 0.1490

Moon 54243-01-20 18:29 G 21532928.17 21532928.27 21532928.38 0.2676 0.0777

Earth 54243-01-20 18:43 G 21532928.17 21532928.28 21532928.38 0.2669 0.0767 *

Jupiter 54244-04-05 10:48 G 21533368.85 21533368.95 21533369.06 0.0526 0.0312

Jupiter 54244-07-03 16:34 G 21533458.09 21533458.19 21533458.28 0.0523 0.0336

Venus 54245-02-07 02:10 G 21533676.43 21533676.59 21533676.75 0.3685 0.0455

Moon 54245-07-26 22:05 G 21533846.27 21533846.42 21533846.57 0.2669 0.0581

Earth 54245-07-26 23:17 G 21533846.32 21533846.47 21533846.62 0.2664 0.0798 *

Saturn 54249-11-26 07:12 G 21535429.66 21535429.80 21535429.96 0.0264 0.0150

Saturn 54250-02-23 03:50 G 21535518.47 21535518.66 21535518.85 0.0264 0.0030

Saturn 54250-05-23 00:29 G 21535607.41 21535607.52 21535607.63 0.0263 0.0210

Jupiter 54250-08-19 14:38 G 21535695.93 21535696.11 21535696.29 0.0502 0.0062

Mars 54254-06-22 11:31 G 21537098.87 21537098.98 21537099.09 0.1764 0.1272

Earth 54256-01-23 12:29 G 21537678.91 21537679.02 21537679.12 0.2668 0.0439

Moon 54256-01-23 12:58 G 21537678.93 21537679.04 21537679.14 0.2673 0.0503 *

Jupiter 54256-01-23 14:38 G 21537679.06 21537679.11 21537679.16 0.0527 0.0484 *

Jupiter 54256-04-21 20:38 G 21537768.24 21537768.36 21537768.48 0.0524 0.0172

Uranus 54261-03-25 10:34 G 21539566.90 21539566.94 21539566.99 0.0139 0.0136

Uranus 54261-06-21 18:14 G 21539655.15 21539655.26 21539655.40 0.0139 0.0106

Uranus 54261-09-18 02:10 G 21539743.44 21539743.59 21539743.76 0.0139 0.0075

Uranus 54261-12-15 10:19 G 21539831.75 21539831.93 21539832.11 0.0139 0.0045

Uranus 54262-03-13 18:14 G 21539920.07 21539920.26 21539920.45 0.0139 0.0014

Jupiter 54262-06-07 11:46 G 21540005.82 21540005.99 21540006.17 0.0502 0.0147

Uranus 54262-06-10 02:10 G 21540008.40 21540008.59 21540008.78 0.0139 0.0016

Uranus 54262-09-06 10:05 G 21540096.74 21540096.92 21540097.11 0.0139 0.0047

Uranus 54262-12-03 17:46 G 21540185.09 21540185.24 21540185.42 0.0139 0.0078

Mars 54263-01-16 10:05 G 21540228.81 21540228.92 21540229.02 0.1762 0.0784

Uranus 54263-03-02 01:55 G 21540273.46 21540273.58 21540273.71 0.0139 0.0108

Uranus 54263-05-29 10:05 G 21540361.90 21540361.92 21540361.93 0.0139 0.0138

Mars 54263-11-12 10:48 G 21540528.80 21540528.95 21540529.11 0.1771 0.0531

Saturn 54264-12-21 06:00 G 21540933.64 21540933.75 21540933.86 0.0297 0.0145

Saturn 54265-03-19 18:29 G 21541022.14 21541022.27 21541022.40 0.0297 0.0033

Saturn 54265-06-16 06:43 G 21541110.69 21541110.78 21541110.88 0.0297 0.0210

Jupiter 54268-02-09 00:58 G 21542078.41 21542078.54 21542078.66 0.0525 0.0020

Earth 54269-01-25 06:00 G 21542429.66 21542429.75 21542429.84 0.2667 0.1602

Moon 54269-01-25 06:43 G 21542429.69 21542429.78 21542429.86 0.2669 0.1642 *

Mars 54272-06-07 19:41 G 21543659.20 21543659.32 21543659.43 0.1756 0.0283

Jupiter 54274-03-26 08:10 G 21544315.72 21544315.84 21544315.97 0.0500 0.0368

Jupiter 54274-06-24 18:29 G 21544406.23 21544406.27 21544406.31 0.0503 0.0487

Moon 54276-01-19 05:17 G 21544979.64 21544979.72 21544979.80 0.2676 0.1751

Earth 54276-01-19 05:46 G 21544979.66 21544979.74 21544979.82 0.2670 0.1748 *

Venus 54276-10-12 08:38 G 21545246.80 21545246.86 21545246.93 0.3685 0.2752

Moon 54278-07-24 21:07 G 21545897.25 21545897.38 21545897.51 0.2664 0.1495

Earth 54278-07-24 22:48 G 21545897.31 21545897.45 21545897.58 0.2663 0.1285 *

Saturn 54279-04-15 07:41 G 21546161.70 21546161.82 21546161.95 0.0264 0.0191

Saturn 54279-07-13 04:19 G 21546250.49 21546250.68 21546250.86 0.0264 0.0012

Saturn 54279-10-10 00:43 G 21546339.39 21546339.53 21546339.68 0.0264 0.0170

Jupiter 54279-11-28 05:02 G 21546388.59 21546388.71 21546388.84 0.0526 0.0152

Jupiter 54280-02-25 10:34 G 21546477.90 21546477.94 21546477.98 0.0523 0.0493

Mars 54281-10-29 05:02 G 21547089.64 21547089.71 21547089.79 0.1749 0.1344

Venus 54282-04-27 23:46 G 21547270.39 21547270.49 21547270.59 0.3685 0.0392

Jupiter 54286-04-12 15:22 G 21548715.99 21548716.14 21548716.30 0.0502 0.0273

Venus 54287-11-11 14:38 G 21549294.03 21549294.11 21549294.20 0.3685 0.1941

Moon 54289-01-20 23:31 G 21549730.37 21549730.48 21549730.58 0.2676 0.0578

Earth 54289-01-20 23:31 G 21549730.37 21549730.48 21549730.59 0.2669 0.0541 *

Moon 54291-07-28 04:48 G 21550648.57 21550648.70 21550648.84 0.2670 0.1242

Earth 54291-07-28 06:00 G 21550648.61 21550648.75 21550648.89 0.2664 0.1262 *

Jupiter 54291-09-16 09:36 G 21550698.80 21550698.90 21550699.00 0.0527 0.0310

Jupiter 54291-12-14 15:07 G 21550788.04 21550788.13 21550788.23 0.0524 0.0340

Mars 54293-12-21 12:00 G 21551525.92 21551526.00 21551526.09 0.1764 0.1498

Saturn 54294-05-10 07:41 G 21551665.73 21551665.82 21551665.92 0.0296 0.0198

Saturn 54294-08-06 20:10 G 21551754.21 21551754.34 21551754.47 0.0297 0.0021

Saturn 54294-11-03 08:38 G 21551842.75 21551842.86 21551842.97 0.0297 0.0156

Jupiter 54298-01-29 12:29 G 21553025.84 21553026.02 21553026.21 0.0502 0.0062

Venus 54301-09-15 04:48 G 21554349.59 21554349.70 21554349.81 0.3686 0.2597

Earth 54302-01-24 17:17 G 21554481.11 21554481.22 21554481.32 0.2668 0.0656

Moon 54302-01-24 17:46 G 21554481.13 21554481.24 21554481.34 0.2673 0.0733 *

Mars 54302-07-18 09:50 G 21554655.82 21554655.91 21554656.01 0.1762 0.0932

Mars 54303-05-14 11:17 G 21554955.81 21554955.97 21554956.13 0.1772 0.0322

Jupiter 54303-07-06 13:41 G 21555009.02 21555009.07 21555009.13 0.0527 0.0472

Jupiter 54303-10-03 19:41 G 21555098.20 21555098.32 21555098.44 0.0524 0.0184

Uranus 54304-12-16 04:19 G 21555537.64 21555537.68 21555537.73 0.0139 0.0128

Uranus 54305-03-14 07:41 G 21555625.74 21555625.82 21555625.91 0.0139 0.0108

Uranus 54305-06-10 11:02 G 21555713.86 21555713.96 21555714.06 0.0139 0.0087

Uranus 54305-09-06 14:10 G 21555801.98 21555802.09 21555802.21 0.0139 0.0067

Uranus 54305-12-03 17:31 G 21555890.11 21555890.23 21555890.36 0.0139 0.0046

Uranus 54306-03-01 20:53 G 21555978.24 21555978.37 21555978.50 0.0139 0.0026

Uranus 54306-05-29 00:14 G 21556066.38 21556066.51 21556066.64 0.0139 0.0006

Uranus 54306-08-25 03:22 G 21556154.51 21556154.64 21556154.77 0.0139 0.0016

Uranus 54306-11-21 06:43 G 21556242.65 21556242.78 21556242.91 0.0139 0.0036

Uranus 54307-02-17 09:50 G 21556330.80 21556330.91 21556331.04 0.0140 0.0057

Uranus 54307-05-16 13:12 G 21556418.94 21556419.05 21556419.16 0.0140 0.0077

Uranus 54307-08-12 16:19 G 21556507.10 21556507.18 21556507.28 0.0140 0.0098

Uranus 54307-11-08 19:26 G 21556595.26 21556595.31 21556595.39 0.0140 0.0119

Uranus 54308-02-04 22:48 G 21556683.45 21556683.45 21556683.47 0.0140 0.0139

Saturn 54308-09-02 05:17 G 21556893.69 21556893.72 21556893.77 0.0264 0.0257

Saturn 54308-11-30 01:41 G 21556982.40 21556982.57 21556982.75 0.0264 0.0078

Saturn 54309-02-26 22:19 G 21557071.26 21557071.43 21557071.60 0.0264 0.0102

Jupiter 54309-11-18 10:05 G 21557335.74 21557335.92 21557336.09 0.0502 0.0143

Mars 54311-12-08 19:26 G 21558086.19 21558086.31 21558086.43 0.1756 0.0147

Earth 54315-01-27 10:48 G 21559231.87 21559231.95 21559232.03 0.2667 0.1824

Moon 54315-01-27 11:31 G 21559231.90 21559231.98 21559232.05 0.2667 0.1931 *

Jupiter 54315-07-22 23:46 G 21559408.36 21559408.49 21559408.61 0.0525 0.0023

Neptune 54318-09-08 00:58 G 21560551.54 21560551.54 21560551.55 0.0089 0.0089

Neptune 54318-12-05 02:10 G 21560639.55 21560639.59 21560639.66 0.0089 0.0081

Neptune 54319-03-03 03:36 G 21560727.59 21560727.65 21560727.73 0.0089 0.0073

Neptune 54319-05-30 05:02 G 21560815.63 21560815.71 21560815.81 0.0089 0.0065

Neptune 54319-08-26 06:29 G 21560903.67 21560903.77 21560903.87 0.0089 0.0057

Neptune 54319-11-22 07:41 G 21560991.72 21560991.82 21560991.94 0.0089 0.0049

Neptune 54320-02-18 09:07 G 21561079.77 21561079.88 21561080.00 0.0089 0.0041

Neptune 54320-05-16 10:34 G 21561167.82 21561167.94 21561168.06 0.0089 0.0033

Neptune 54320-08-12 11:46 G 21561255.87 21561255.99 21561256.12 0.0089 0.0026

Neptune 54320-11-08 12:58 G 21561343.92 21561344.04 21561344.18 0.0089 0.0018

Neptune 54321-02-04 14:24 G 21561431.97 21561432.10 21561432.24 0.0089 0.0010

Mars 54321-04-30 05:17 G 21561516.63 21561516.72 21561516.80 0.1749 0.1186

Neptune 54321-05-03 15:50 G 21561520.03 21561520.16 21561520.29 0.0089 0.0002

Neptune 54321-07-30 17:02 G 21561608.08 21561608.21 21561608.34 0.0089 0.0006

Jupiter 54321-09-06 07:12 G 21561645.68 21561645.80 21561645.94 0.0501 0.0350

Neptune 54321-10-26 18:14 G 21561696.14 21561696.26 21561696.40 0.0089 0.0014

Moon 54322-01-20 10:05 G 21561781.84 21561781.92 21561782.01 0.2676 0.1641

Earth 54322-01-20 10:34 G 21561781.85 21561781.94 21561782.03 0.2670 0.1517 *

Neptune 54322-01-22 19:41 G 21561784.19 21561784.32 21561784.45 0.0089 0.0021

Neptune 54322-04-20 21:07 G 21561872.25 21561872.38 21561872.50 0.0089 0.0029

Neptune 54322-07-17 22:19 G 21561960.31 21561960.43 21561960.55 0.0089 0.0037

Neptune 54322-10-13 23:31 G 21562048.37 21562048.48 21562048.60 0.0089 0.0045

Neptune 54323-01-10 00:43 G 21562136.43 21562136.53 21562136.64 0.0089 0.0053

Neptune 54323-04-08 02:10 G 21562224.50 21562224.59 21562224.69 0.0089 0.0060

Neptune 54323-07-05 03:22 G 21562312.56 21562312.64 21562312.73 0.0089 0.0068

Saturn 54323-09-28 09:22 G 21562397.83 21562397.89 21562397.97 0.0296 0.0253

Neptune 54323-10-01 04:34 G 21562400.63 21562400.69 21562400.77 0.0089 0.0076

Saturn 54323-12-25 22:05 G 21562486.29 21562486.42 21562486.55 0.0297 0.0074

Neptune 54323-12-28 06:14 G 21562488.71 21562488.76 21562488.80 0.0089 0.0083

Saturn 54324-03-23 10:34 G 21562574.82 21562574.94 21562575.06 0.0297 0.0103

Saturn 54324-06-19 22:48 G 21562663.41 21562663.45 21562663.49 0.0297 0.0279

Moon 54324-07-26 03:50 G 21562699.52 21562699.66 21562699.81 0.2666 0.1006

Earth 54324-07-26 05:17 G 21562699.57 21562699.72 21562699.87 0.2663 0.0833 *

Jupiter 54327-05-11 03:50 G 21563718.54 21563718.66 21563718.78 0.0526 0.0146

Jupiter 54327-08-08 09:07 G 21563807.85 21563807.88 21563807.92 0.0523 0.0497

Venus 54333-05-20 06:00 G 21565919.66 21565919.75 21565919.83 0.3685 0.1878

Mars 54333-06-22 12:29 G 21565952.99 21565953.02 21565953.06 0.1764 0.1723

Jupiter 54333-09-23 13:41 G 21566045.92 21566046.07 21566046.23 0.0502 0.0278

Earth 54335-01-23 04:19 G 21566532.57 21566532.68 21566532.79 0.2669 0.0314

Moon 54335-01-23 04:34 G 21566532.58 21566532.69 21566532.80 0.2675 0.0259 *

Moon 54337-07-29 11:46 G 21567450.87 21567450.99 21567451.12 0.2670 0.1568

Earth 54337-07-29 12:43 G 21567450.91 21567451.03 21567451.15 0.2664 0.1736 *

Saturn 54338-04-19 02:24 G 21567714.44 21567714.60 21567714.77 0.0265 0.0117

Saturn 54338-07-16 23:02 G 21567803.28 21567803.46 21567803.64 0.0264 0.0064

Saturn 54338-10-13 19:41 G 21567892.25 21567892.32 21567892.39 0.0264 0.0245

Venus 54338-12-03 20:53 G 21567943.27 21567943.37 21567943.47 0.3685 0.0478

Jupiter 54339-02-27 07:55 G 21568028.73 21568028.83 21568028.93 0.0527 0.0314

Jupiter 54339-05-27 13:41 G 21568117.97 21568118.07 21568118.16 0.0524 0.0338

Mars 54342-01-16 10:05 G 21569082.82 21569082.92 21569083.01 0.1762 0.1078

Mars 54342-11-12 12:00 G 21569382.84 21569383.00 21569383.16 0.1771 0.0075

Venus 54344-06-18 12:00 G 21569966.94 21569967.00 21569967.06 0.3685 0.2805

Uranus 54345-04-15 18:14 G 21570268.19 21570268.26 21570268.35 0.0140 0.0126

Jupiter 54345-07-12 10:48 G 21570355.76 21570355.95 21570356.13 0.0501 0.0065

Uranus 54345-07-13 02:10 G 21570356.46 21570356.59 21570356.74 0.0139 0.0095

Uranus 54345-10-09 10:19 G 21570444.76 21570444.93 21570445.10 0.0139 0.0065

Uranus 54346-01-05 18:14 G 21570533.07 21570533.26 21570533.45 0.0139 0.0034

Uranus 54346-04-04 02:10 G 21570621.40 21570621.59 21570621.79 0.0139 0.0004

Uranus 54346-07-01 10:05 G 21570709.73 21570709.92 21570710.11 0.0139 0.0027

Uranus 54346-09-27 17:46 G 21570798.08 21570798.24 21570798.43 0.0139 0.0058

Uranus 54346-12-25 01:55 G 21570886.44 21570886.58 21570886.74 0.0139 0.0088

Uranus 54347-03-23 09:36 G 21570974.82 21570974.90 21570975.02 0.0139 0.0119

Earth 54348-01-25 22:05 G 21571283.31 21571283.42 21571283.52 0.2668 0.0880

Moon 54348-01-25 22:34 G 21571283.34 21571283.44 21571283.54 0.2672 0.0925 *

Pluto 54348-04-19 22:05 G 21571368.40 21571368.42 21571368.47 0.0067 0.0065

Pluto 54348-07-16 22:48 G 21571456.38 21571456.45 21571456.54 0.0067 0.0054

Pluto 54348-10-12 23:31 G 21571544.38 21571544.48 21571544.59 0.0067 0.0044

Pluto 54349-01-09 00:00 G 21571632.39 21571632.50 21571632.63 0.0068 0.0033

Pluto 54349-04-07 00:43 G 21571720.40 21571720.53 21571720.66 0.0068 0.0022

Pluto 54349-07-04 01:26 G 21571808.42 21571808.56 21571808.69 0.0068 0.0011

Pluto 54349-09-30 01:55 G 21571896.44 21571896.58 21571896.72 0.0068 0.0002

Pluto 54349-12-27 02:38 G 21571984.47 21571984.61 21571984.74 0.0068 0.0011

Pluto 54350-03-25 03:07 G 21572072.50 21572072.63 21572072.76 0.0068 0.0022

Pluto 54350-06-21 03:36 G 21572160.54 21572160.65 21572160.78 0.0068 0.0033

Pluto 54350-09-17 04:05 G 21572248.58 21572248.67 21572248.79 0.0068 0.0045

Pluto 54350-12-14 04:48 G 21572336.63 21572336.70 21572336.79 0.0068 0.0056

Jupiter 54350-12-16 12:14 G 21572338.96 21572339.01 21572339.06 0.0528 0.0475

Pluto 54351-03-12 05:31 G 21572424.71 21572424.73 21572424.76 0.0068 0.0067

Jupiter 54351-03-15 18:14 G 21572428.14 21572428.26 21572428.37 0.0525 0.0183

Mars 54351-06-08 19:26 G 21572513.20 21572513.31 21572513.43 0.1756 0.0068

Venus 54352-10-05 19:55 G 21572998.30 21572998.33 21572998.37 0.3685 0.3576

Saturn 54353-05-14 00:14 G 21573218.40 21573218.51 21573218.63 0.0296 0.0122

Saturn 54353-08-10 12:43 G 21573306.90 21573307.03 21573307.16 0.0296 0.0056

Saturn 54353-11-07 00:58 G 21573395.47 21573395.54 21573395.63 0.0297 0.0231

Moon 54355-01-18 21:07 G 21573833.36 21573833.38 21573833.39 0.2674 0.2631

Earth 54355-01-18 21:36 G 21573833.37 21573833.40 21573833.44 0.2671 0.2500 *

Jupiter 54357-04-30 07:41 G 21574665.65 21574665.82 21574666.00 0.0501 0.0148

Mars 54360-10-29 05:02 G 21575943.62 21575943.71 21575943.81 0.1749 0.1045

Earth 54361-01-27 15:36 G 21576034.08 21576034.15 21576034.22 0.2667 0.2044

Moon 54361-01-27 16:05 G 21576034.11 21576034.17 21576034.24 0.2664 0.2127 *

Jupiter 54363-01-01 22:34 G 21576738.31 21576738.44 21576738.57 0.0525 0.0025

Saturn 54367-09-06 00:29 G 21578446.39 21578446.52 21578446.66 0.0264 0.0179

Saturn 54367-12-03 21:07 G 21578535.19 21578535.38 21578535.56 0.0264 0.0006

Moon 54368-01-21 15:07 G 21578584.03 21578584.13 21578584.22 0.2676 0.1274

Earth 54368-01-21 15:22 G 21578584.05 21578584.14 21578584.24 0.2670 0.1286 *

Saturn 54368-03-01 17:31 G 21578624.10 21578624.23 21578624.37 0.0264 0.0182

Jupiter 54369-02-16 05:17 G 21578975.59 21578975.72 21578975.85 0.0501 0.0351

Moon 54370-07-27 10:34 G 21579501.79 21579501.94 21579502.09 0.2667 0.0491

Earth 54370-07-27 12:00 G 21579501.84 21579502.00 21579502.16 0.2663 0.0378 *

Jupiter 54374-10-21 02:24 G 21581048.48 21581048.60 21581048.73 0.0526 0.0145

Jupiter 54375-01-18 07:55 G 21581137.79 21581137.83 21581137.87 0.0523 0.0498

Earth 54381-01-23 09:07 G 21583334.77 21583334.88 21583334.99 0.2669 0.0091

Moon 54381-01-23 09:22 G 21583334.79 21583334.89 21583335.00 0.2675 0.0147 *

Jupiter 54381-03-05 12:29 G 21583375.87 21583376.02 21583376.17 0.0503 0.0291

Mars 54381-07-17 09:50 G 21583509.83 21583509.91 21583510.00 0.1762 0.1222

Mars 54382-05-13 12:29 G 21583809.86 21583810.02 21583810.18 0.1771 0.0149

Saturn 54382-10-01 02:24 G 21583950.49 21583950.60 21583950.71 0.0296 0.0173

Saturn 54382-12-28 14:53 G 21584038.99 21584039.12 21584039.25 0.0297 0.0006

Saturn 54383-03-27 03:07 G 21584127.53 21584127.63 21584127.74 0.0297 0.0181

Moon 54383-07-30 18:43 G 21584253.19 21584253.28 21584253.37 0.2670 0.2170

Earth 54383-07-30 19:26 G 21584253.22 21584253.31 21584253.39 0.2664 0.2194 *

Venus 54384-06-10 12:14 G 21584568.97 21584569.01 21584569.04 0.3685 0.3375

Jupiter 54386-08-09 06:29 G 21585358.67 21585358.77 21585358.88 0.0527 0.0311

Jupiter 54386-11-06 12:14 G 21585447.91 21585448.01 21585448.10 0.0524 0.0339

Uranus 54389-01-05 12:00 G 21586238.95 21586239.00 21586239.07 0.0139 0.0121

Uranus 54389-04-03 15:22 G 21586327.06 21586327.14 21586327.24 0.0139 0.0100

Uranus 54389-06-30 18:43 G 21586415.18 21586415.28 21586415.39 0.0139 0.0079

Uranus 54389-09-26 22:05 G 21586503.30 21586503.42 21586503.54 0.0139 0.0059

Uranus 54389-12-24 01:12 G 21586591.43 21586591.55 21586591.68 0.0139 0.0039

Venus 54389-12-25 03:07 G 21586592.54 21586592.63 21586592.73 0.3685 0.1022

Uranus 54390-03-22 04:34 G 21586679.56 21586679.69 21586679.82 0.0139 0.0018

Uranus 54390-06-18 07:55 G 21586767.70 21586767.83 21586767.96 0.0139 0.0003

Uranus 54390-09-14 11:02 G 21586855.83 21586855.96 21586856.09 0.0139 0.0024

Mars 54390-12-07 19:41 G 21586940.20 21586940.32 21586940.43 0.1756 0.0174

Uranus 54390-12-11 14:24 G 21586943.98 21586944.10 21586944.22 0.0139 0.0044

Uranus 54391-03-09 17:31 G 21587032.12 21587032.23 21587032.35 0.0139 0.0064

Uranus 54391-06-05 20:53 G 21587120.27 21587120.37 21587120.47 0.0140 0.0085

Uranus 54391-09-02 00:00 G 21587208.42 21587208.50 21587208.59 0.0140 0.0106

Mars 54391-10-03 11:46 G 21587239.94 21587239.99 21587240.05 0.1779 0.1656

Uranus 54391-11-29 03:22 G 21587296.59 21587296.64 21587296.70 0.0140 0.0126

Jupiter 54392-12-22 08:53 G 21587685.69 21587685.87 21587686.05 0.0501 0.0067

Earth 54394-01-26 02:53 G 21588085.52 21588085.62 21588085.72 0.2668 0.1100

Moon 54394-01-26 03:22 G 21588085.54 21588085.64 21588085.74 0.2671 0.1213 *

Venus 54395-07-10 18:14 G 21588616.17 21588616.26 21588616.35 0.3685 0.1331

Saturn 54397-01-23 01:26 G 21589178.46 21589178.56 21589178.67 0.0265 0.0216

Saturn 54397-04-21 21:50 G 21589267.23 21589267.41 21589267.60 0.0265 0.0036

Saturn 54397-07-19 18:29 G 21589356.12 21589356.27 21589356.43 0.0264 0.0146

Jupiter 54398-05-28 10:19 G 21589668.88 21589668.93 21589668.98 0.0528 0.0485

Jupiter 54398-08-25 16:19 G 21589758.06 21589758.18 21589758.30 0.0525 0.0175

Mars 54400-04-29 05:17 G 21590370.61 21590370.72 21590370.82 0.1749 0.0893

Moon 54401-01-19 01:55 G 21590635.53 21590635.58 21590635.63 0.2675 0.2323

Earth 54401-01-19 02:24 G 21590635.55 21590635.60 21590635.66 0.2671 0.2271 *

Venus 54401-01-23 09:22 G 21590639.88 21590639.89 21590639.89 0.3684 0.3670

Neptune 54403-02-02 11:17 G 21591379.94 21591379.97 21591380.03 0.0088 0.0085

Neptune 54403-05-01 14:53 G 21591468.03 21591468.12 21591468.23 0.0088 0.0074

Moon 54403-07-25 09:50 G 21591552.87 21591552.91 21591552.97 0.2662 0.2508

Earth 54403-07-25 11:31 G 21591552.92 21591552.98 21591553.05 0.2662 0.2431 *

Neptune 54403-07-28 18:14 G 21591556.14 21591556.26 21591556.41 0.0088 0.0064

Neptune 54403-10-24 21:50 G 21591644.27 21591644.41 21591644.58 0.0088 0.0052

Neptune 54404-01-21 01:26 G 21591732.40 21591732.56 21591732.74 0.0088 0.0041

Neptune 54404-04-18 05:17 G 21591820.54 21591820.72 21591820.90 0.0088 0.0030

Neptune 54404-07-15 08:53 G 21591908.68 21591908.87 21591909.06 0.0088 0.0019

Jupiter 54404-10-10 05:46 G 21591995.57 21591995.74 21591995.92 0.0501 0.0146

Neptune 54404-10-11 12:29 G 21591996.82 21591997.02 21591997.21 0.0088 0.0007

Neptune 54405-01-07 16:05 G 21592084.97 21592085.17 21592085.36 0.0088 0.0004

Neptune 54405-04-05 19:26 G 21592173.13 21592173.31 21592173.51 0.0088 0.0016

Neptune 54405-07-02 23:02 G 21592261.28 21592261.46 21592261.65 0.0088 0.0027

Neptune 54405-09-29 02:24 G 21592349.44 21592349.60 21592349.79 0.0088 0.0039

Neptune 54405-12-26 06:00 G 21592437.61 21592437.75 21592437.93 0.0088 0.0050

Neptune 54406-03-24 09:50 G 21592525.78 21592525.91 21592526.06 0.0088 0.0061

Neptune 54406-06-20 13:12 G 21592613.96 21592614.05 21592614.18 0.0088 0.0072

Neptune 54406-09-16 16:48 G 21592702.16 21592702.20 21592702.28 0.0088 0.0084

Earth 54407-01-28 20:24 G 21592836.29 21592836.35 21592836.40 0.2667 0.2266

Moon 54407-01-28 20:53 G 21592836.32 21592836.37 21592836.43 0.2664 0.2328 *

Venus 54409-05-12 22:34 G 21593671.28 21593671.44 21593671.60 0.3686 0.0602

Jupiter 54410-06-13 20:53 G 21594068.24 21594068.37 21594068.49 0.0526 0.0023

Saturn 54412-02-18 05:02 G 21594682.63 21594682.71 21594682.81 0.0296 0.0212

Saturn 54412-05-16 17:46 G 21594771.11 21594771.24 21594771.37 0.0296 0.0036

Saturn 54412-08-13 06:00 G 21594859.64 21594859.75 21594859.87 0.0296 0.0141

Moon 54414-01-21 20:10 G 21595386.24 21595386.34 21595386.43 0.2676 0.1139

Earth 54414-01-21 20:24 G 21595386.24 21595386.35 21595386.45 0.2670 0.1057 *

Moon 54416-07-27 17:17 G 21596304.06 21596304.22 21596304.37 0.2668 0.0143

Earth 54416-07-27 18:43 G 21596304.12 21596304.28 21596304.43 0.2663 0.0102 *

Jupiter 54416-07-29 02:38 G 21596305.49 21596305.61 21596305.74 0.0500 0.0359

Jupiter 54416-10-27 12:43 G 21596396.01 21596396.03 21596396.06 0.0503 0.0496

Mars 54421-01-15 09:50 G 21597936.84 21597936.91 21597936.99 0.1762 0.1373

Mars 54421-11-11 12:58 G 21598236.88 21598237.04 21598237.20 0.1771 0.0372

Jupiter 54422-04-02 01:12 G 21598378.43 21598378.55 21598378.67 0.0526 0.0142

Jupiter 54422-06-30 06:43 G 21598467.74 21598467.78 21598467.81 0.0523 0.0501

Saturn 54426-09-08 20:24 G 21599999.18 21599999.35 21599999.53 0.0264 0.0094

Saturn 54426-12-06 17:02 G 21600088.04 21600088.21 21600088.39 0.0264 0.0087

Earth 54427-01-24 13:55 G 21600136.97 21600137.08 21600137.19 0.2669 0.0167

Moon 54427-01-24 14:24 G 21600136.99 21600137.10 21600137.21 0.2675 0.0259 *

Jupiter 54428-08-15 09:50 G 21600705.76 21600705.91 21600706.07 0.0503 0.0284

Uranus 54429-05-06 02:10 G 21600969.49 21600969.59 21600969.71 0.0140 0.0116

Moon 54429-07-31 01:55 G 21601055.57 21601055.58 21601055.59 0.2671 0.2660

Uranus 54429-08-02 10:19 G 21601057.78 21601057.93 21601058.08 0.0139 0.0085

Uranus 54429-10-29 18:00 G 21601146.08 21601146.25 21601146.44 0.0139 0.0055

Uranus 54430-01-26 01:55 G 21601234.40 21601234.58 21601234.78 0.0139 0.0025

Uranus 54430-04-24 10:05 G 21601322.72 21601322.92 21601323.11 0.0139 0.0007

Mars 54430-06-07 19:26 G 21601367.20 21601367.31 21601367.43 0.1756 0.0305

Uranus 54430-07-21 18:00 G 21601411.06 21601411.25 21601411.44 0.0139 0.0037

Uranus 54430-10-18 01:41 G 21601499.41 21601499.57 21601499.75 0.0139 0.0068

Uranus 54431-01-14 09:50 G 21601587.78 21601587.91 21601588.05 0.0139 0.0098

Mars 54431-04-03 12:29 G 21601666.92 21601667.02 21601667.11 0.1779 0.1415

Uranus 54431-04-12 17:31 G 21601676.18 21601676.23 21601676.32 0.0139 0.0129

Jupiter 54434-01-19 05:02 G 21602688.61 21602688.71 21602688.81 0.0526 0.0313

Jupiter 54434-04-18 10:34 G 21602777.85 21602777.94 21602778.04 0.0524 0.0338

Pluto 54435-02-07 14:24 G 21603073.03 21603073.10 21603073.20 0.0077 0.0068

Pluto 54435-05-06 16:48 G 21603161.06 21603161.20 21603161.35 0.0077 0.0047

Pluto 54435-08-02 18:58 G 21603249.13 21603249.29 21603249.48 0.0077 0.0026

Pluto 54435-10-29 21:36 G 21603337.21 21603337.40 21603337.58 0.0077 0.0005

Pluto 54436-01-25 23:46 G 21603425.31 21603425.49 21603425.67 0.0077 0.0017

Pluto 54436-04-23 01:55 G 21603513.43 21603513.58 21603513.75 0.0076 0.0038

Pluto 54436-07-20 04:05 G 21603601.56 21603601.67 21603601.80 0.0076 0.0058

Mars 54439-10-29 05:17 G 21604797.61 21604797.72 21604797.82 0.1749 0.0743

Earth 54440-01-27 07:41 G 21604887.72 21604887.82 21604887.91 0.2668 0.1327

Moon 54440-01-27 08:10 G 21604887.75 21604887.84 21604887.94 0.2669 0.1353 *

Jupiter 54440-06-03 06:58 G 21605015.61 21605015.79 21605015.97 0.0502 0.0072

Venus 54441-01-15 09:22 G 21605241.82 21605241.89 21605241.97 0.3685 0.2497

Saturn 54441-07-07 07:12 G 21605414.74 21605414.80 21605414.86 0.0296 0.0263

Saturn 54441-10-03 19:41 G 21605503.20 21605503.32 21605503.45 0.0296 0.0086

Saturn 54441-12-31 08:10 G 21605591.71 21605591.84 21605591.96 0.0297 0.0091

Saturn 54442-03-29 20:24 G 21605680.30 21605680.35 21605680.41 0.0297 0.0266

Jupiter 54445-11-07 08:53 G 21606998.82 21606998.87 21606998.92 0.0527 0.0483

Jupiter 54446-02-04 14:53 G 21607088.00 21607088.12 21607088.24 0.0525 0.0175

Venus 54446-08-01 00:29 G 21607265.42 21607265.52 21607265.62 0.3685 0.0144

Moon 54447-01-20 06:43 G 21607437.71 21607437.78 21607437.84 0.2675 0.2132

Earth 54447-01-20 07:12 G 21607437.73 21607437.80 21607437.87 0.2671 0.2038 *

Moon 54449-07-25 16:34 G 21608355.11 21608355.19 21608355.27 0.2664 0.2266

Earth 54449-07-25 18:14 G 21608355.16 21608355.26 21608355.36 0.2662 0.1978 *

Venus 54452-02-14 15:36 G 21609289.07 21609289.15 21609289.23 0.3685 0.2208

Jupiter 54452-03-22 03:36 G 21609325.48 21609325.65 21609325.83 0.0501 0.0147

Earth 54453-01-29 01:12 G 21609638.51 21609638.55 21609638.58 0.2666 0.2484

Moon 54453-01-29 01:41 G 21609638.55 21609638.57 21609638.59 0.2664 0.2586 *

Saturn 54456-01-26 21:36 G 21610731.24 21610731.40 21610731.57 0.0265 0.0129

Saturn 54456-04-24 18:14 G 21610820.08 21610820.26 21610820.45 0.0265 0.0052

Saturn 54456-07-22 14:53 G 21610909.04 21610909.12 21610909.21 0.0265 0.0235

Jupiter 54457-11-23 18:43 G 21611398.15 21611398.28 21611398.41 0.0526 0.0008

Moon 54460-01-23 00:58 G 21612188.44 21612188.54 21612188.65 0.2676 0.0803

Earth 54460-01-23 01:12 G 21612188.44 21612188.55 21612188.65 0.2670 0.0829 *

Mars 54460-07-16 09:50 G 21612363.86 21612363.91 21612363.97 0.1762 0.1514

Mars 54461-05-12 13:41 G 21612663.91 21612664.07 21612664.22 0.1771 0.0610

Moon 54462-07-29 00:00 G 21613106.35 21613106.50 21613106.66 0.2668 0.0476

Earth 54462-07-29 01:12 G 21613106.40 21613106.55 21613106.71 0.2663 0.0537 *

Jupiter 54464-01-09 00:29 G 21613635.40 21613635.52 21613635.66 0.0500 0.0358

Jupiter 54464-04-08 10:34 G 21613725.92 21613725.94 21613725.98 0.0503 0.0494

Venus 54465-12-18 01:12 G 21614344.43 21614344.55 21614344.67 0.3686 0.2413

Jupiter 54469-09-11 23:02 G 21615708.34 21615708.46 21615708.58 0.0526 0.0155

Mars 54469-12-06 19:26 G 21615794.20 21615794.31 21615794.43 0.1756 0.0462

Jupiter 54469-12-10 04:34 G 21615797.65 21615797.69 21615797.73 0.0524 0.0490

Mars 54470-10-02 12:43 G 21616093.92 21616094.03 21616094.15 0.1779 0.1209

Saturn 54471-02-20 23:02 G 21616235.34 21616235.46 21616235.58 0.0296 0.0119

Saturn 54471-05-20 11:31 G 21616323.85 21616323.98 21616324.10 0.0296 0.0058

Saturn 54471-08-16 23:46 G 21616412.41 21616412.49 21616412.57 0.0296 0.0232

Uranus 54472-10-29 16:34 G 21616852.16 21616852.19 21616852.23 0.0138 0.0133

Earth 54473-01-24 18:43 G 21616939.18 21616939.28 21616939.39 0.2669 0.0384

Moon 54473-01-24 19:12 G 21616939.19 21616939.30 21616939.41 0.2674 0.0361 *

Uranus 54473-01-25 19:55 G 21616940.26 21616940.33 21616940.41 0.0138 0.0112

Uranus 54473-04-23 23:17 G 21617028.37 21617028.47 21617028.57 0.0139 0.0092

Uranus 54473-07-21 02:24 G 21617116.49 21617116.60 21617116.72 0.0139 0.0072

Uranus 54473-10-17 05:46 G 21617204.62 21617204.74 21617204.86 0.0139 0.0051

Uranus 54474-01-13 09:07 G 21617292.75 21617292.88 21617293.01 0.0139 0.0031

Uranus 54474-04-11 12:14 G 21617380.88 21617381.01 21617381.14 0.0139 0.0011

Uranus 54474-07-08 15:36 G 21617469.02 21617469.15 21617469.28 0.0139 0.0010

Uranus 54474-10-04 18:43 G 21617557.16 21617557.28 21617557.41 0.0139 0.0031

Uranus 54474-12-31 22:05 G 21617645.30 21617645.42 21617645.54 0.0139 0.0051

Uranus 54475-03-30 01:26 G 21617733.44 21617733.56 21617733.67 0.0139 0.0072

Uranus 54475-06-26 04:19 G 21617821.59 21617821.68 21617821.79 0.0139 0.0093

Uranus 54475-09-22 07:41 G 21617909.75 21617909.82 21617909.90 0.0140 0.0113

Uranus 54475-12-19 10:48 G 21617997.93 21617997.95 21617998.00 0.0140 0.0134

Jupiter 54476-01-26 06:58 G 21618035.64 21618035.79 21618035.95 0.0502 0.0271

Mars 54479-04-29 05:02 G 21619224.60 21619224.71 21619224.83 0.1749 0.0601

Jupiter 54481-07-01 03:22 G 21620018.54 21620018.64 21620018.75 0.0527 0.0315

Jupiter 54481-09-28 09:07 G 21620107.79 21620107.88 21620107.98 0.0524 0.0336

Neptune 54483-06-05 00:00 G 21620722.49 21620722.50 21620722.52 0.0089 0.0088

Neptune 54483-09-01 01:12 G 21620810.51 21620810.55 21620810.62 0.0089 0.0081

Neptune 54483-11-28 02:38 G 21620898.54 21620898.61 21620898.69 0.0089 0.0072

Neptune 54484-02-24 04:05 G 21620986.58 21620986.67 21620986.77 0.0089 0.0064

Neptune 54484-05-22 05:31 G 21621074.63 21621074.73 21621074.83 0.0089 0.0056

Neptune 54484-08-18 06:29 G 21621162.67 21621162.77 21621162.90 0.0089 0.0050

Neptune 54484-11-14 07:55 G 21621250.72 21621250.83 21621250.96 0.0089 0.0041

Neptune 54485-02-10 09:22 G 21621338.77 21621338.89 21621339.02 0.0089 0.0033

Neptune 54485-05-09 10:48 G 21621426.82 21621426.95 21621427.08 0.0089 0.0025

Saturn 54485-06-14 20:38 G 21621463.23 21621463.36 21621463.50 0.0265 0.0183

Neptune 54485-08-05 12:00 G 21621514.88 21621515.00 21621515.14 0.0089 0.0018

Saturn 54485-09-11 17:17 G 21621552.03 21621552.22 21621552.41 0.0264 0.0002

Neptune 54485-11-01 13:26 G 21621602.93 21621603.06 21621603.19 0.0089 0.0009

Saturn 54485-12-09 13:55 G 21621640.94 21621641.08 21621641.22 0.0264 0.0179

Earth 54486-01-27 12:29 G 21621689.93 21621690.02 21621690.10 0.2667 0.1549

Moon 54486-01-27 13:12 G 21621689.96 21621690.05 21621690.13 0.2667 0.1702 *

Neptune 54486-01-28 14:53 G 21621690.98 21621691.12 21621691.25 0.0089 0.0002

Neptune 54486-04-26 16:05 G 21621779.04 21621779.17 21621779.30 0.0089 0.0007

Neptune 54486-07-23 17:17 G 21621867.10 21621867.22 21621867.36 0.0089 0.0015

Neptune 54486-10-19 18:43 G 21621955.15 21621955.28 21621955.41 0.0089 0.0022

Neptune 54487-01-15 19:55 G 21622043.21 21622043.33 21622043.46 0.0089 0.0030

Neptune 54487-04-13 21:07 G 21622131.27 21622131.38 21622131.51 0.0089 0.0038

Neptune 54487-07-10 22:19 G 21622219.33 21622219.43 21622219.56 0.0089 0.0046

Neptune 54487-10-07 00:00 G 21622307.39 21622307.50 21622307.60 0.0089 0.0053

Jupiter 54487-11-14 04:05 G 21622345.49 21622345.67 21622345.86 0.0502 0.0061

Neptune 54488-01-03 01:12 G 21622395.46 21622395.55 21622395.65 0.0089 0.0061

Neptune 54488-03-31 02:24 G 21622483.53 21622483.60 21622483.69 0.0089 0.0069

Neptune 54488-06-27 03:50 G 21622571.60 21622571.66 21622571.73 0.0089 0.0076

Mars 54488-09-18 14:53 G 21622655.08 21622655.12 21622655.15 0.1743 0.1645

Neptune 54488-09-23 05:02 G 21622659.68 21622659.71 21622659.76 0.0089 0.0084

Moon 54493-01-20 11:31 G 21624239.91 21624239.98 21624240.06 0.2675 0.1877

Earth 54493-01-20 12:14 G 21624239.92 21624240.01 21624240.09 0.2671 0.1809 *

Jupiter 54493-04-19 07:12 G 21624328.76 21624328.80 21624328.85 0.0527 0.0487

Jupiter 54493-07-17 13:12 G 21624417.93 21624418.05 21624418.17 0.0525 0.0171

Moon 54495-07-26 23:02 G 21625157.34 21625157.46 21625157.59 0.2665 0.1615

Earth 54495-07-27 00:43 G 21625157.41 21625157.53 21625157.66 0.2662 0.1540 *

Venus 54497-08-22 06:43 G 21625914.69 21625914.78 21625914.87 0.3685 0.1619

Jupiter 54499-09-02 01:26 G 21626655.38 21626655.56 21626655.73 0.0501 0.0149

Mars 54500-01-15 09:50 G 21626790.88 21626790.91 21626790.95 0.1762 0.1663

Saturn 54500-07-11 01:12 G 21626967.44 21626967.55 21626967.66 0.0296 0.0168

Saturn 54500-10-07 13:41 G 21627055.94 21627056.07 21627056.20 0.0297 0.0009

Mars 54500-11-11 14:10 G 21627090.95 21627091.09 21627091.23 0.1771 0.0842

Saturn 54501-01-04 01:55 G 21627144.48 21627144.58 21627144.68 0.0297 0.0185

Venus 54503-03-08 21:50 G 21627938.31 21627938.41 21627938.51 0.3685 0.0737

Jupiter 54505-05-06 17:17 G 21628728.09 21628728.22 21628728.35 0.0525 0.0006

Moon 54506-01-24 06:00 G 21628990.64 21628990.75 21628990.86 0.2677 0.0608

Earth 54506-01-24 06:00 G 21628990.64 21628990.75 21628990.86 0.2670 0.0597 *

Moon 54508-07-30 07:12 G 21629908.65 21629908.80 21629908.94 0.2669 0.0809

Earth 54508-07-30 07:55 G 21629908.69 21629908.83 21629908.98 0.2663 0.0995 *

Venus 54508-09-21 12:43 G 21629961.98 21629962.03 21629962.09 0.3684 0.3081

Mars 54509-06-07 19:26 G 21630221.20 21630221.31 21630221.43 0.1756 0.0609

Mars 54510-04-03 13:12 G 21630520.92 21630521.05 21630521.19 0.1779 0.0984

Jupiter 54511-06-21 22:19 G 21630965.31 21630965.43 21630965.56 0.0500 0.0361

Jupiter 54511-09-20 08:24 G 21631055.81 21631055.85 21631055.89 0.0503 0.0490

Uranus 54513-02-28 01:41 G 21631582.55 21631582.57 21631582.60 0.0140 0.0138

Uranus 54513-05-27 09:22 G 21631670.78 21631670.89 21631671.02 0.0140 0.0108

Uranus 54513-08-23 17:31 G 21631759.07 21631759.23 21631759.39 0.0139 0.0077

Uranus 54513-11-20 01:26 G 21631847.38 21631847.56 21631847.74 0.0139 0.0046

Uranus 54514-02-16 09:22 G 21631935.70 21631935.89 21631936.08 0.0139 0.0016

Uranus 54514-05-15 17:17 G 21632024.03 21632024.22 21632024.41 0.0139 0.0015

Uranus 54514-08-12 01:12 G 21632112.37 21632112.55 21632112.74 0.0139 0.0045

Saturn 54514-11-02 21:50 G 21632195.32 21632195.41 21632195.53 0.0265 0.0218

Uranus 54514-11-08 08:53 G 21632200.72 21632200.87 21632201.05 0.0139 0.0076

Saturn 54515-01-30 18:29 G 21632284.09 21632284.27 21632284.46 0.0265 0.0037

Uranus 54515-02-04 17:02 G 21632289.09 21632289.21 21632289.34 0.0139 0.0106

Saturn 54515-04-29 15:07 G 21632372.98 21632373.13 21632373.29 0.0265 0.0145

Uranus 54515-05-04 00:43 G 21632377.52 21632377.53 21632377.58 0.0139 0.0137

Jupiter 54517-02-22 20:53 G 21633038.25 21633038.37 21633038.50 0.0527 0.0170

Jupiter 54517-05-23 02:38 G 21633127.56 21633127.61 21633127.66 0.0524 0.0478

Mars 54518-10-29 05:02 G 21633651.60 21633651.71 21633651.83 0.1749 0.0457

Earth 54519-01-26 23:31 G 21633741.38 21633741.48 21633741.59 0.2668 0.0604

Moon 54519-01-27 00:00 G 21633741.40 21633741.50 21633741.61 0.2673 0.0710 *

Jupiter 54523-07-09 04:48 G 21635365.55 21635365.70 21635365.86 0.0502 0.0271

Mars 54528-03-20 14:53 G 21637082.06 21637082.12 21637082.18 0.1743 0.1487

Jupiter 54528-12-12 01:12 G 21637348.45 21637348.55 21637348.65 0.0527 0.0332

Jupiter 54529-03-11 06:58 G 21637437.69 21637437.79 21637437.89 0.0524 0.0322

Saturn 54529-11-28 04:34 G 21637699.60 21637699.69 21637699.79 0.0296 0.0199

Saturn 54530-02-24 17:02 G 21637788.08 21637788.21 21637788.35 0.0296 0.0024

Saturn 54530-05-24 05:31 G 21637876.62 21637876.73 21637876.84 0.0296 0.0153

Earth 54532-01-29 17:17 G 21638492.13 21638492.22 21638492.30 0.2667 0.1771

Moon 54532-01-29 18:00 G 21638492.17 21638492.25 21638492.33 0.2667 0.1794 *

Jupiter 54535-04-27 01:12 G 21639675.36 21639675.55 21639675.73 0.0501 0.0047

Moon 54539-01-22 16:34 G 21641042.10 21641042.19 21641042.28 0.2676 0.1607

Earth 54539-01-22 17:02 G 21641042.12 21641042.21 21641042.30 0.2671 0.1573 *

Mars 54540-05-12 14:38 G 21641517.98 21641518.11 21641518.23 0.1771 0.1054

Jupiter 54540-09-30 05:31 G 21641658.69 21641658.73 21641658.78 0.0528 0.0493

Jupiter 54540-12-28 11:31 G 21641747.86 21641747.98 21641748.10 0.0525 0.0167

Moon 54541-07-28 06:00 G 21641959.61 21641959.75 21641959.88 0.2665 0.1359

Earth 54541-07-28 07:26 G 21641959.67 21641959.81 21641959.96 0.2662 0.1083 *

Saturn 54544-06-18 18:00 G 21643016.08 21643016.25 21643016.43 0.0265 0.0087

Saturn 54544-09-15 14:38 G 21643104.94 21643105.11 21643105.29 0.0264 0.0095

Jupiter 54547-02-12 22:19 G 21643985.26 21643985.43 21643985.61 0.0501 0.0163

Venus 54548-09-13 12:58 G 21644563.99 21644564.04 21644564.09 0.3685 0.3107

Mars 54548-12-06 19:26 G 21644648.20 21644648.31 21644648.42 0.1756 0.0743

Mars 54549-10-02 14:10 G 21644947.94 21644948.09 21644948.23 0.1778 0.0730

Moon 54552-01-25 10:48 G 21645792.84 21645792.95 21645793.06 0.2677 0.0354

Earth 54552-01-25 10:48 G 21645792.84 21645792.95 21645793.06 0.2669 0.0370 *

Jupiter 54552-10-16 15:36 G 21646058.02 21646058.15 21646058.28 0.0525 0.0003

Venus 54554-03-30 04:05 G 21646587.57 21646587.67 21646587.77 0.3685 0.0752

Moon 54554-07-31 13:55 G 21646710.95 21646711.08 21646711.21 0.2670 0.1494

Earth 54554-07-31 14:38 G 21646710.98 21646711.11 21646711.24 0.2664 0.1446 *

Uranus 54556-11-20 00:29 G 21647553.47 21647553.52 21647553.58 0.0138 0.0124

Uranus 54557-02-16 03:50 G 21647641.57 21647641.66 21647641.75 0.0138 0.0104

Uranus 54557-05-15 06:58 G 21647729.69 21647729.79 21647729.90 0.0139 0.0084

Uranus 54557-08-11 10:19 G 21647817.82 21647817.93 21647818.05 0.0139 0.0063

Uranus 54557-11-07 13:41 G 21647905.94 21647906.07 21647906.19 0.0139 0.0043

Uranus 54558-02-03 16:48 G 21647994.07 21647994.20 21647994.33 0.0139 0.0023

Mars 54558-04-29 05:17 G 21648078.60 21648078.72 21648078.84 0.1749 0.0295

Uranus 54558-05-02 20:10 G 21648082.21 21648082.34 21648082.47 0.0139 0.0002

Uranus 54558-07-29 23:17 G 21648170.35 21648170.47 21648170.61 0.0139 0.0019

Uranus 54558-10-26 02:38 G 21648258.48 21648258.61 21648258.74 0.0139 0.0039

Jupiter 54558-12-01 19:41 G 21648295.20 21648295.32 21648295.45 0.0500 0.0369

Uranus 54559-01-22 05:46 G 21648346.63 21648346.74 21648346.86 0.0139 0.0060

Jupiter 54559-03-02 05:46 G 21648385.70 21648385.74 21648385.79 0.0503 0.0485

Saturn 54559-04-17 06:29 G 21648431.71 21648431.77 21648431.85 0.0296 0.0250

Uranus 54559-04-20 08:53 G 21648434.78 21648434.87 21648434.99 0.0139 0.0081

Saturn 54559-07-14 19:12 G 21648520.17 21648520.30 21648520.43 0.0296 0.0072

Uranus 54559-07-17 12:14 G 21648522.93 21648523.01 21648523.11 0.0139 0.0101

Saturn 54559-10-11 07:41 G 21648608.69 21648608.82 21648608.94 0.0297 0.0104

Uranus 54559-10-13 15:36 G 21648611.09 21648611.15 21648611.22 0.0140 0.0121

Venus 54559-10-13 18:58 G 21648611.20 21648611.29 21648611.38 0.3685 0.1611 *

Saturn 54560-01-07 19:55 G 21648697.29 21648697.33 21648697.37 0.0297 0.0279

Jupiter 54564-08-04 19:26 G 21650368.19 21650368.31 21650368.43 0.0526 0.0169

Jupiter 54564-11-02 00:58 G 21650457.49 21650457.54 21650457.59 0.0523 0.0477

Earth 54565-01-27 04:19 G 21650543.58 21650543.68 21650543.79 0.2668 0.0821

Moon 54565-01-27 05:02 G 21650543.61 21650543.71 21650543.81 0.2671 0.0868 *

Mars 54567-09-19 14:53 G 21651509.04 21651509.12 21651509.19 0.1742 0.1344

Neptune 54567-10-31 08:38 G 21651550.81 21651550.86 21651550.92 0.0088 0.0084

Neptune 54568-01-27 12:14 G 21651638.90 21651639.01 21651639.12 0.0088 0.0073

Neptune 54568-04-24 15:36 G 21651727.02 21651727.15 21651727.30 0.0088 0.0062

Neptune 54568-07-21 19:12 G 21651815.15 21651815.30 21651815.46 0.0088 0.0051

Neptune 54568-10-17 22:48 G 21651903.28 21651903.45 21651903.63 0.0088 0.0039

Neptune 54569-01-14 02:10 G 21651991.42 21651991.59 21651991.79 0.0088 0.0029

Neptune 54569-04-12 05:46 G 21652079.56 21652079.74 21652079.94 0.0088 0.0018

Neptune 54569-07-09 09:22 G 21652167.70 21652167.89 21652168.09 0.0088 0.0007

Neptune 54569-10-05 13:12 G 21652255.85 21652256.05 21652256.24 0.0088 0.0006

Neptune 54570-01-01 16:34 G 21652344.00 21652344.19 21652344.39 0.0088 0.0017

Neptune 54570-03-30 19:55 G 21652432.16 21652432.33 21652432.53 0.0088 0.0029

Neptune 54570-06-26 23:46 G 21652520.32 21652520.49 21652520.67 0.0088 0.0039

Neptune 54570-09-23 03:22 G 21652608.49 21652608.64 21652608.80 0.0088 0.0051

Jupiter 54570-12-19 02:24 G 21652695.45 21652695.60 21652695.76 0.0502 0.0266

Neptune 54570-12-20 06:43 G 21652696.66 21652696.78 21652696.93 0.0088 0.0062

Neptune 54571-03-18 10:19 G 21652784.84 21652784.93 21652785.05 0.0088 0.0074

Neptune 54571-06-14 14:10 G 21652873.04 21652873.09 21652873.15 0.0088 0.0085

Moon 54572-01-21 03:07 G 21653093.61 21653093.63 21653093.66 0.2674 0.2596

Earth 54572-01-21 03:50 G 21653093.64 21653093.66 21653093.69 0.2672 0.2566 *

Venus 54573-08-15 18:58 G 21653666.13 21653666.29 21653666.45 0.3686 0.0742

Saturn 54573-11-05 19:12 G 21653748.14 21653748.30 21653748.47 0.0265 0.0122

Saturn 54574-02-02 15:50 G 21653836.98 21653837.16 21653837.34 0.0265 0.0059

Saturn 54574-05-02 12:14 G 21653925.95 21653926.01 21653926.10 0.0265 0.0242

Jupiter 54576-05-23 23:02 G 21654678.37 21654678.46 21654678.56 0.0527 0.0347

Jupiter 54576-08-21 04:48 G 21654767.60 21654767.70 21654767.81 0.0525 0.0309

Earth 54578-01-29 22:05 G 21655294.34 21655294.42 21655294.49 0.2667 0.1990

Moon 54578-01-29 22:34 G 21655294.38 21655294.44 21655294.51 0.2667 0.2137 *

Mars 54579-11-11 15:22 G 21655945.03 21655945.14 21655945.24 0.1771 0.1299

Jupiter 54582-10-06 23:02 G 21657005.28 21657005.46 21657005.65 0.0501 0.0049

Moon 54585-01-22 21:36 G 21657844.31 21657844.40 21657844.49 0.2677 0.1421

Earth 54585-01-22 21:50 G 21657844.32 21657844.41 21657844.50 0.2671 0.1341 *

Moon 54587-07-29 12:43 G 21658761.88 21658762.03 21658762.18 0.2666 0.0722

Earth 54587-07-29 14:10 G 21658761.93 21658762.09 21658762.24 0.2662 0.0638 *

Jupiter 54588-03-12 03:07 G 21658988.61 21658988.63 21658988.66 0.0528 0.0512

Mars 54588-06-06 19:26 G 21659075.21 21659075.31 21659075.41 0.1756 0.0898

Jupiter 54588-06-09 09:22 G 21659077.77 21659077.89 21659078.01 0.0525 0.0151

Saturn 54588-09-03 10:19 G 21659163.89 21659163.93 21659163.97 0.0295 0.0278

Saturn 54588-11-30 22:48 G 21659252.33 21659252.45 21659252.58 0.0296 0.0101

Saturn 54589-02-27 11:17 G 21659340.85 21659340.97 21659341.10 0.0296 0.0075

Mars 54589-04-02 14:24 G 21659374.94 21659375.10 21659375.25 0.1778 0.0535

Saturn 54589-05-26 23:31 G 21659429.42 21659429.48 21659429.55 0.0296 0.0250

Pluto 54593-12-19 13:55 G 21661097.04 21661097.08 21661097.13 0.0067 0.0064

Pluto 54594-03-17 14:10 G 21661185.03 21661185.09 21661185.19 0.0067 0.0054

Pluto 54594-06-13 14:53 G 21661273.03 21661273.12 21661273.24 0.0067 0.0043

Jupiter 54594-07-25 19:12 G 21661315.13 21661315.30 21661315.47 0.0501 0.0178

Pluto 54594-09-09 15:36 G 21661361.04 21661361.15 21661361.28 0.0068 0.0032

Pluto 54594-12-06 16:19 G 21661449.05 21661449.18 21661449.32 0.0068 0.0021

Pluto 54595-03-04 17:02 G 21661537.07 21661537.21 21661537.35 0.0068 0.0010

Pluto 54595-05-31 17:31 G 21661625.09 21661625.23 21661625.37 0.0068 0.0002

Pluto 54595-08-27 18:14 G 21661713.12 21661713.26 21661713.39 0.0068 0.0012

Pluto 54595-11-23 18:43 G 21661801.15 21661801.28 21661801.41 0.0068 0.0023

Pluto 54596-02-19 19:12 G 21661889.19 21661889.30 21661889.43 0.0068 0.0035

Pluto 54596-05-17 19:55 G 21661977.23 21661977.33 21661977.44 0.0068 0.0046

Pluto 54596-08-13 20:24 G 21662065.28 21662065.35 21662065.43 0.0068 0.0057

Pluto 54596-11-09 21:07 G 21662153.37 21662153.38 21662153.40 0.0068 0.0068

Uranus 54597-03-20 09:22 G 21662283.83 21662283.89 21662283.98 0.0140 0.0128

Uranus 54597-06-16 17:31 G 21662372.10 21662372.23 21662372.37 0.0140 0.0097

Uranus 54597-09-13 01:26 G 21662460.39 21662460.56 21662460.73 0.0140 0.0067

Mars 54597-10-28 05:02 G 21662505.59 21662505.71 21662505.83 0.1749 0.0164

Uranus 54597-12-10 09:07 G 21662548.70 21662548.88 21662549.08 0.0139 0.0037

Earth 54598-01-25 15:36 G 21662595.04 21662595.15 21662595.26 0.2669 0.0139

Moon 54598-01-25 15:50 G 21662595.05 21662595.16 21662595.27 0.2676 0.0127 *

Uranus 54598-03-08 17:17 G 21662637.03 21662637.22 21662637.42 0.0139 0.0006

Uranus 54598-06-05 01:12 G 21662725.36 21662725.55 21662725.74 0.0139 0.0025

Uranus 54598-09-01 09:07 G 21662813.70 21662813.88 21662814.06 0.0139 0.0056

Uranus 54598-11-28 16:48 G 21662902.06 21662902.20 21662902.36 0.0139 0.0086

Uranus 54599-02-25 00:43 G 21662990.44 21662990.53 21662990.65 0.0139 0.0117

Jupiter 54600-03-29 13:55 G 21663387.95 21663388.08 21663388.20 0.0526 0.0018

Moon 54600-08-01 20:53 G 21663513.25 21663513.37 21663513.49 0.2671 0.1767

Earth 54600-08-01 21:22 G 21663513.28 21663513.39 21663513.50 0.2664 0.1916 *

Saturn 54603-03-26 19:12 G 21664480.16 21664480.30 21664480.45 0.0265 0.0168

Saturn 54603-06-23 15:36 G 21664568.97 21664569.15 21664569.34 0.0264 0.0013

Saturn 54603-09-20 12:14 G 21664657.89 21664658.01 21664658.14 0.0264 0.0193

Venus 54605-04-21 10:19 G 21665236.85 21665236.93 21665237.00 0.3685 0.2233

Jupiter 54606-05-14 16:34 G 21665625.08 21665625.19 21665625.31 0.0500 0.0383

Jupiter 54606-08-13 02:24 G 21665715.55 21665715.60 21665715.67 0.0503 0.0469

Mars 54607-03-21 14:53 G 21665936.03 21665936.12 21665936.20 0.1743 0.1196

Venus 54610-11-05 01:12 G 21667260.45 21667260.55 21667260.65 0.3685 0.0151

Earth 54611-01-29 09:07 G 21667345.78 21667345.88 21667345.98 0.2668 0.1044

Moon 54611-01-29 09:50 G 21667345.81 21667345.91 21667346.01 0.2670 0.1138 *

Jupiter 54612-01-16 17:46 G 21667698.12 21667698.24 21667698.36 0.0526 0.0173

Jupiter 54612-04-14 23:17 G 21667787.42 21667787.47 21667787.53 0.0523 0.0473

Venus 54616-05-20 16:19 G 21669284.11 21669284.18 21669284.25 0.3684 0.2474

Moon 54618-01-22 08:10 G 21669895.80 21669895.84 21669895.88 0.2674 0.2475

Earth 54618-01-22 08:53 G 21669895.82 21669895.87 21669895.92 0.2672 0.2327 *

Saturn 54618-04-21 00:43 G 21669984.42 21669984.53 21669984.64 0.0296 0.0155

Jupiter 54618-05-31 23:46 G 21670025.33 21670025.49 21670025.65 0.0502 0.0256

Saturn 54618-07-18 13:12 G 21670072.92 21670073.05 21670073.18 0.0297 0.0022

Saturn 54618-10-15 01:26 G 21670161.47 21670161.56 21670161.66 0.0297 0.0198

Mars 54619-05-13 15:50 G 21670372.08 21670372.16 21670372.24 0.1771 0.1521

Earth 54620-07-27 13:55 G 21670813.07 21670813.08 21670813.09 0.2661 0.2651

Jupiter 54623-11-04 21:36 G 21672008.31 21672008.40 21672008.50 0.0527 0.0344

Earth 54624-02-01 02:38 G 21672096.56 21672096.61 21672096.67 0.2667 0.2211

Moon 54624-02-01 03:22 G 21672096.58 21672096.64 21672096.70 0.2665 0.2238 *

Jupiter 54624-02-02 03:36 G 21672097.54 21672097.65 21672097.75 0.0524 0.0310

Mars 54627-12-07 19:26 G 21673502.22 21673502.31 21673502.41 0.1756 0.1047

Mars 54628-10-02 15:07 G 21673801.97 21673802.13 21673802.28 0.1778 0.0295

Jupiter 54630-03-19 20:53 G 21674335.18 21674335.37 21674335.55 0.0501 0.0045

Venus 54630-03-23 21:36 G 21674339.28 21674339.40 21674339.53 0.3686 0.2305

Moon 54631-01-25 02:24 G 21674646.50 21674646.60 21674646.70 0.2677 0.1082

Earth 54631-01-25 02:38 G 21674646.51 21674646.61 21674646.71 0.2670 0.1112 *

Saturn 54632-08-12 19:55 G 21675212.22 21675212.33 21675212.45 0.0265 0.0207

Saturn 54632-11-09 16:34 G 21675301.00 21675301.19 21675301.37 0.0265 0.0027

Saturn 54633-02-06 12:58 G 21675389.89 21675390.04 21675390.20 0.0264 0.0155

Moon 54633-07-30 19:41 G 21675564.16 21675564.32 21675564.47 0.2667 0.0341

Earth 54633-07-30 20:53 G 21675564.21 21675564.37 21675564.52 0.2662 0.0192 *

Jupiter 54635-08-24 01:12 G 21676318.54 21676318.55 21676318.56 0.0528 0.0524

Jupiter 54635-11-21 07:12 G 21676407.68 21676407.80 21676407.93 0.0525 0.0139

Mars 54637-04-29 05:17 G 21676932.60 21676932.72 21676932.84 0.1749 0.0055

Uranus 54640-09-14 05:02 G 21678166.69 21678166.71 21678166.73 0.0138 0.0137

Uranus 54640-12-11 08:10 G 21678254.78 21678254.84 21678254.92 0.0138 0.0117

Uranus 54641-03-09 11:31 G 21678342.89 21678342.98 21678343.08 0.0139 0.0096

Uranus 54641-06-05 14:53 G 21678431.01 21678431.12 21678431.23 0.0139 0.0076

Uranus 54641-09-01 18:14 G 21678519.14 21678519.26 21678519.38 0.0139 0.0055

Uranus 54641-11-28 21:22 G 21678607.27 21678607.39 21678607.52 0.0139 0.0035

Jupiter 54642-01-05 17:31 G 21678645.06 21678645.23 21678645.41 0.0500 0.0172

Uranus 54642-02-25 00:43 G 21678695.40 21678695.53 21678695.66 0.0139 0.0014

Uranus 54642-05-24 04:05 G 21678783.53 21678783.67 21678783.80 0.0139 0.0007

Uranus 54642-08-20 07:12 G 21678871.67 21678871.80 21678871.93 0.0139 0.0027

Uranus 54642-11-16 10:19 G 21678959.81 21678959.93 21678960.06 0.0139 0.0048

Uranus 54643-02-12 13:41 G 21679047.96 21679048.07 21679048.19 0.0139 0.0068

Uranus 54643-05-11 16:48 G 21679136.11 21679136.20 21679136.31 0.0139 0.0088

Uranus 54643-08-07 20:10 G 21679224.26 21679224.34 21679224.42 0.0140 0.0109

Uranus 54643-11-03 23:31 G 21679312.43 21679312.48 21679312.53 0.0140 0.0129

Earth 54644-01-27 20:24 G 21679397.24 21679397.35 21679397.46 0.2669 0.0088

Moon 54644-01-27 20:38 G 21679397.25 21679397.36 21679397.47 0.2675 0.0112 *

Moon 54646-08-03 03:36 G 21680315.59 21680315.65 21680315.71 0.2671 0.2441

Earth 54646-08-03 04:05 G 21680315.60 21680315.67 21680315.74 0.2664 0.2378 *

Mars 54646-09-19 14:53 G 21680363.02 21680363.12 21680363.21 0.1742 0.1048

Saturn 54647-09-08 04:19 G 21680716.58 21680716.68 21680716.78 0.0296 0.0184

Jupiter 54647-09-09 11:31 G 21680717.86 21680717.98 21680718.11 0.0526 0.0025

Saturn 54647-12-05 16:48 G 21680805.07 21680805.20 21680805.33 0.0296 0.0008

Neptune 54648-03-02 23:02 G 21680893.44 21680893.46 21680893.48 0.0089 0.0088

Saturn 54648-03-03 05:02 G 21680893.61 21680893.71 21680893.82 0.0296 0.0168

Neptune 54648-05-30 00:00 G 21680981.46 21680981.50 21680981.58 0.0089 0.0081

Neptune 54648-08-26 01:26 G 21681069.50 21681069.56 21681069.65 0.0089 0.0072

Neptune 54648-11-22 02:53 G 21681157.54 21681157.62 21681157.72 0.0089 0.0064

Neptune 54649-02-18 04:19 G 21681245.59 21681245.68 21681245.79 0.0089 0.0056

Neptune 54649-05-17 05:46 G 21681333.63 21681333.74 21681333.86 0.0089 0.0048

Neptune 54649-08-13 06:58 G 21681421.68 21681421.79 21681421.92 0.0089 0.0040

Neptune 54649-11-09 08:24 G 21681509.73 21681509.85 21681509.98 0.0089 0.0032

Neptune 54650-02-05 09:50 G 21681597.78 21681597.91 21681598.04 0.0089 0.0024

Neptune 54650-05-04 11:17 G 21681685.84 21681685.97 21681686.10 0.0089 0.0016

Neptune 54650-07-31 12:29 G 21681773.89 21681774.02 21681774.15 0.0089 0.0008

Neptune 54650-10-27 13:55 G 21681861.94 21681862.08 21681862.21 0.0089 0.0002

Neptune 54651-01-23 15:07 G 21681950.00 21681950.13 21681950.26 0.0089 0.0008

Neptune 54651-04-21 16:34 G 21682038.06 21682038.19 21682038.32 0.0089 0.0015

Neptune 54651-07-18 17:46 G 21682126.11 21682126.24 21682126.37 0.0089 0.0023

Neptune 54651-10-14 18:58 G 21682214.17 21682214.29 21682214.42 0.0089 0.0031

Neptune 54652-01-10 20:10 G 21682302.23 21682302.34 21682302.47 0.0089 0.0039

Neptune 54652-04-07 21:36 G 21682390.29 21682390.40 21682390.52 0.0089 0.0047

Neptune 54652-07-04 23:02 G 21682478.36 21682478.46 21682478.57 0.0089 0.0054

Neptune 54652-10-01 00:14 G 21682566.42 21682566.51 21682566.61 0.0089 0.0062

Neptune 54652-12-28 01:26 G 21682654.49 21682654.56 21682654.65 0.0089 0.0070

Neptune 54653-03-26 02:53 G 21682742.56 21682742.62 21682742.69 0.0089 0.0077

Neptune 54653-06-22 04:05 G 21682830.64 21682830.67 21682830.71 0.0089 0.0085

Jupiter 54653-10-24 13:41 G 21682954.96 21682955.07 21682955.18 0.0500 0.0396

Jupiter 54654-01-22 23:31 G 21683045.40 21683045.48 21683045.56 0.0503 0.0454

Earth 54657-01-29 13:55 G 21684147.99 21684148.08 21684148.18 0.2668 0.1270

Moon 54657-01-29 14:38 G 21684148.02 21684148.11 21684148.21 0.2670 0.1356 *

Mars 54658-11-11 16:19 G 21684799.16 21684799.18 21684799.20 0.1771 0.1750

Jupiter 54659-06-28 16:05 G 21685028.05 21685028.17 21685028.29 0.0527 0.0178

Jupiter 54659-09-25 21:36 G 21685117.35 21685117.40 21685117.46 0.0524 0.0469

Venus 54661-11-26 07:26 G 21685909.72 21685909.81 21685909.90 0.3685 0.1367

Saturn 54661-12-30 20:24 G 21685944.29 21685944.35 21685944.41 0.0265 0.0250

Saturn 54662-03-29 16:34 G 21686033.01 21686033.19 21686033.37 0.0264 0.0072

Saturn 54662-06-26 13:12 G 21686121.88 21686122.05 21686122.22 0.0264 0.0109

Moon 54664-01-23 13:12 G 21686697.98 21686698.05 21686698.11 0.2675 0.2110

Earth 54664-01-23 13:41 G 21686698.00 21686698.07 21686698.14 0.2671 0.2094 *

Jupiter 54665-11-10 20:38 G 21687355.20 21687355.36 21687355.52 0.0502 0.0241

Moon 54666-07-28 18:43 G 21687615.21 21687615.28 21687615.35 0.2662 0.2350

Earth 54666-07-28 20:24 G 21687615.27 21687615.35 21687615.44 0.2661 0.2217 *

Mars 54667-06-07 19:26 G 21687929.22 21687929.31 21687929.40 0.1756 0.1181

Venus 54667-06-11 22:34 G 21687933.34 21687933.44 21687933.54 0.3685 0.0994

Mars 54668-04-02 15:36 G 21688228.99 21688229.15 21688229.31 0.1778 0.0058

Earth 54670-02-01 07:41 G 21688898.77 21688898.82 21688898.86 0.2667 0.2431

Moon 54670-02-01 08:10 G 21688898.81 21688898.84 21688898.87 0.2663 0.2518 *

Jupiter 54671-04-16 20:10 G 21689338.24 21689338.34 21689338.44 0.0527 0.0346

Jupiter 54671-07-15 01:55 G 21689427.48 21689427.58 21689427.68 0.0524 0.0308

Venus 54672-12-25 13:26 G 21689957.02 21689957.06 21689957.11 0.3684 0.3333

Mars 54676-10-28 05:17 G 21691359.60 21691359.72 21691359.83 0.1749 0.0153

Saturn 54677-01-25 05:46 G 21691448.67 21691448.74 21691448.82 0.0296 0.0242

Moon 54677-01-25 07:26 G 21691448.71 21691448.81 21691448.91 0.2677 0.0966 *

Earth 54677-01-25 07:26 G 21691448.71 21691448.81 21691448.92 0.2670 0.0883 *

Saturn 54677-04-23 18:29 G 21691537.14 21691537.27 21691537.39 0.0296 0.0065

Saturn 54677-07-21 06:43 G 21691625.66 21691625.78 21691625.90 0.0297 0.0112

Jupiter 54677-08-29 18:00 G 21691665.06 21691665.25 21691665.43 0.0502 0.0034

Saturn 54677-10-17 19:12 G 21691714.27 21691714.30 21691714.33 0.0297 0.0287

Moon 54679-08-01 02:24 G 21692366.45 21692366.60 21692366.76 0.2669 0.0170

Earth 54679-08-01 03:22 G 21692366.49 21692366.64 21692366.80 0.2663 0.0279 *

Pluto 54680-10-09 04:05 G 21692801.60 21692801.67 21692801.77 0.0077 0.0068

Pluto 54681-01-05 06:29 G 21692889.64 21692889.77 21692889.93 0.0077 0.0047

Pluto 54681-04-03 08:53 G 21692977.70 21692977.87 21692978.05 0.0077 0.0026

Uranus 54681-04-10 17:17 G 21692985.13 21692985.22 21692985.33 0.0140 0.0118

Pluto 54681-06-30 11:17 G 21693065.79 21693065.97 21693066.15 0.0077 0.0004

Uranus 54681-07-08 01:12 G 21693073.41 21693073.55 21693073.70 0.0140 0.0088

Pluto 54681-09-26 13:26 G 21693153.88 21693154.06 21693154.24 0.0077 0.0017

Uranus 54681-10-04 08:53 G 21693161.71 21693161.87 21693162.06 0.0140 0.0058

Pluto 54681-12-23 15:36 G 21693242.00 21693242.15 21693242.32 0.0076 0.0038

Uranus 54681-12-31 17:02 G 21693250.02 21693250.21 21693250.40 0.0139 0.0027

Pluto 54682-03-21 17:46 G 21693330.13 21693330.24 21693330.37 0.0076 0.0058

Uranus 54682-03-30 00:58 G 21693338.35 21693338.54 21693338.74 0.0139 0.0004

Uranus 54682-06-26 08:53 G 21693426.68 21693426.87 21693427.06 0.0139 0.0034

Uranus 54682-09-22 16:34 G 21693515.03 21693515.19 21693515.37 0.0139 0.0065

Uranus 54682-12-20 00:43 G 21693603.39 21693603.53 21693603.67 0.0139 0.0095

Jupiter 54683-02-03 00:00 G 21693648.48 21693648.50 21693648.52 0.0528 0.0517

Uranus 54683-03-18 08:24 G 21693691.78 21693691.85 21693691.94 0.0139 0.0126

Jupiter 54683-05-03 06:00 G 21693737.63 21693737.75 21693737.87 0.0525 0.0144

Mars 54686-03-20 14:53 G 21694790.02 21694790.12 21694790.22 0.1743 0.0896

Jupiter 54689-06-17 15:22 G 21695974.97 21695975.14 21695975.31 0.0501 0.0175

Earth 54690-01-28 01:12 G 21696199.44 21696199.55 21696199.66 0.2669 0.0313

Moon 54690-01-28 01:41 G 21696199.46 21696199.57 21696199.68 0.2674 0.0426 *

Saturn 54691-08-16 16:48 G 21696765.04 21696765.20 21696765.38 0.0265 0.0115

Saturn 54691-11-13 13:26 G 21696853.88 21696854.06 21696854.24 0.0264 0.0066

Saturn 54692-02-10 09:50 G 21696942.86 21696942.91 21696942.99 0.0264 0.0249

Jupiter 54695-02-19 09:36 G 21698047.78 21698047.90 21698048.03 0.0526 0.0036

Jupiter 54701-04-06 12:14 G 21700284.90 21700285.01 21700285.13 0.0500 0.0385

Jupiter 54701-07-05 22:05 G 21700375.35 21700375.42 21700375.49 0.0502 0.0464

Earth 54703-01-31 18:43 G 21700950.19 21700950.28 21700950.37 0.2668 0.1490

Moon 54703-01-31 19:26 G 21700950.22 21700950.31 21700950.40 0.2670 0.1557 *

Saturn 54706-06-15 09:07 G 21702180.84 21702180.88 21702180.93 0.0296 0.0274

Saturn 54706-09-11 21:50 G 21702269.28 21702269.41 21702269.53 0.0296 0.0097

Mars 54706-12-07 19:26 G 21702356.24 21702356.31 21702356.39 0.1756 0.1333

Saturn 54706-12-09 10:19 G 21702357.80 21702357.93 21702358.05 0.0296 0.0080

Jupiter 54706-12-09 13:55 G 21702357.96 21702358.08 21702358.20 0.0527 0.0193 *

Saturn 54707-03-07 22:34 G 21702446.38 21702446.44 21702446.50 0.0296 0.0254

Jupiter 54707-03-08 19:41 G 21702447.26 21702447.32 21702447.38 0.0524 0.0456

Mars 54707-10-03 15:50 G 21702656.00 21702656.16 21702656.32 0.1778 0.0159

Moon 54710-01-24 18:00 G 21703500.18 21703500.25 21703500.33 0.2677 0.1970

Earth 54710-01-24 18:29 G 21703500.19 21703500.27 21703500.35 0.2671 0.1859 *

Moon 54712-07-30 01:41 G 21704417.47 21704417.57 21704417.67 0.2663 0.2016

Earth 54712-07-30 03:07 G 21704417.51 21704417.63 21704417.75 0.2661 0.1768 *

Venus 54712-12-18 13:41 G 21704559.01 21704559.07 21704559.13 0.3685 0.2861

Jupiter 54713-04-23 17:46 G 21704685.07 21704685.24 21704685.40 0.0502 0.0230

Earth 54716-02-03 12:29 G 21705701.01 21705701.02 21705701.03 0.2667 0.2648

Mars 54716-04-29 05:02 G 21705786.60 21705786.71 21705786.83 0.1749 0.0288

Mars 54717-02-22 15:22 G 21706086.08 21706086.14 21706086.20 0.1786 0.1653

Venus 54718-07-04 04:48 G 21706582.60 21706582.70 21706582.80 0.3685 0.0497

Jupiter 54718-09-27 18:29 G 21706668.18 21706668.27 21706668.37 0.0527 0.0349

Jupiter 54718-12-26 00:14 G 21706757.41 21706757.51 21706757.62 0.0525 0.0307

Saturn 54721-01-03 17:17 G 21707497.08 21707497.22 21707497.38 0.0264 0.0157

Saturn 54721-04-02 13:41 G 21707585.89 21707586.07 21707586.26 0.0264 0.0023

Saturn 54721-06-30 10:19 G 21707674.81 21707674.93 21707675.05 0.0264 0.0203

Moon 54723-01-27 12:14 G 21708250.90 21708251.01 21708251.12 0.2677 0.0600

Earth 54723-01-27 12:14 G 21708250.91 21708251.01 21708251.12 0.2670 0.0656 *

Venus 54724-01-17 19:55 G 21708606.24 21708606.33 21708606.41 0.3684 0.1872

Uranus 54724-10-05 12:29 G 21708867.99 21708868.02 21708868.08 0.0138 0.0130

Uranus 54725-01-01 16:05 G 21708956.09 21708956.17 21708956.25 0.0138 0.0109

Jupiter 54725-02-09 14:53 G 21708994.94 21708995.12 21708995.31 0.0501 0.0024

Uranus 54725-03-30 19:12 G 21709044.21 21709044.30 21709044.41 0.0139 0.0089

Uranus 54725-06-26 22:34 G 21709132.33 21709132.44 21709132.56 0.0139 0.0068

Moon 54725-08-02 09:07 G 21709168.73 21709168.88 21709169.03 0.2669 0.0653

Earth 54725-08-02 10:05 G 21709168.77 21709168.92 21709169.07 0.2663 0.0728 *

Mars 54725-09-19 14:53 G 21709217.01 21709217.12 21709217.22 0.1743 0.0755

Uranus 54725-09-23 01:55 G 21709220.46 21709220.58 21709220.70 0.0139 0.0048

Uranus 54725-12-20 05:02 G 21709308.59 21709308.71 21709308.84 0.0139 0.0028

Uranus 54726-03-18 08:24 G 21709396.72 21709396.85 21709396.98 0.0139 0.0007

Uranus 54726-06-14 11:46 G 21709484.86 21709484.99 21709485.12 0.0139 0.0014

Uranus 54726-09-10 14:53 G 21709573.00 21709573.12 21709573.25 0.0139 0.0034

Uranus 54726-12-07 18:14 G 21709661.14 21709661.26 21709661.38 0.0139 0.0055

Uranus 54727-03-05 21:22 G 21709749.29 21709749.39 21709749.50 0.0139 0.0075

Uranus 54727-06-02 00:43 G 21709837.44 21709837.53 21709837.62 0.0139 0.0096

Uranus 54727-08-29 03:50 G 21709925.60 21709925.66 21709925.74 0.0140 0.0116

Uranus 54727-11-25 06:58 G 21710013.78 21710013.79 21710013.82 0.0140 0.0137

Jupiter 54730-07-16 22:34 G 21710978.42 21710978.44 21710978.46 0.0528 0.0516

Jupiter 54730-10-14 04:34 G 21711067.57 21711067.69 21711067.81 0.0525 0.0145

Neptune 54732-07-29 06:00 G 21711721.69 21711721.75 21711721.84 0.0088 0.0081

Neptune 54732-10-25 09:22 G 21711809.79 21711809.89 21711810.03 0.0088 0.0071

Neptune 54733-01-21 12:58 G 21711897.91 21711898.04 21711898.20 0.0088 0.0059

Neptune 54733-04-19 16:34 G 21711986.04 21711986.19 21711986.37 0.0088 0.0048

Neptune 54733-07-16 20:10 G 21712074.17 21712074.34 21712074.53 0.0088 0.0037

Neptune 54733-10-12 23:46 G 21712162.31 21712162.49 21712162.68 0.0088 0.0026

Neptune 54734-01-09 03:22 G 21712250.45 21712250.64 21712250.84 0.0088 0.0015

Neptune 54734-04-07 06:58 G 21712338.60 21712338.79 21712338.99 0.0088 0.0004

Neptune 54734-07-04 10:34 G 21712426.75 21712426.94 21712427.13 0.0088 0.0008

Neptune 54734-09-30 13:55 G 21712514.90 21712515.08 21712515.28 0.0088 0.0019

Neptune 54734-12-27 17:31 G 21712603.05 21712603.23 21712603.42 0.0088 0.0030

Neptune 54735-03-25 21:07 G 21712691.22 21712691.38 21712691.56 0.0088 0.0042

Neptune 54735-06-22 00:29 G 21712779.38 21712779.52 21712779.69 0.0088 0.0053

Neptune 54735-09-18 04:05 G 21712867.55 21712867.67 21712867.82 0.0088 0.0065

Neptune 54735-12-15 07:55 G 21712955.74 21712955.83 21712955.94 0.0088 0.0076

Saturn 54736-01-29 22:48 G 21713001.34 21713001.45 21713001.57 0.0296 0.0160

Earth 54736-01-30 06:00 G 21713001.64 21713001.75 21713001.86 0.2669 0.0538

Moon 54736-01-30 06:29 G 21713001.67 21713001.77 21713001.88 0.2674 0.0547 *

Neptune 54736-03-12 11:02 G 21713043.96 21713043.96 21713044.02 0.0088 0.0088

Saturn 54736-04-27 11:17 G 21713089.84 21713089.97 21713090.11 0.0297 0.0021

Saturn 54736-07-24 23:46 G 21713178.39 21713178.49 21713178.59 0.0297 0.0194

Jupiter 54736-11-28 12:29 G 21713304.85 21713305.02 21713305.19 0.0501 0.0184

Venus 54737-11-19 15:36 G 21713660.99 21713661.15 21713661.30 0.3686 0.0860

Jupiter 54742-08-02 08:38 G 21715377.73 21715377.86 21715377.99 0.0526 0.0022

Mars 54746-06-07 19:26 G 21716783.25 21716783.31 21716783.37 0.1756 0.1479

Mars 54747-04-03 16:34 G 21717083.03 21717083.19 21717083.35 0.1778 0.0385

Jupiter 54748-09-16 10:05 G 21717614.81 21717614.92 21717615.04 0.0500 0.0386

Jupiter 54748-12-15 19:55 G 21717705.27 21717705.33 21717705.40 0.0503 0.0464

Earth 54749-01-31 23:31 G 21717752.40 21717752.48 21717752.57 0.2668 0.1713

Moon 54749-02-01 00:14 G 21717752.43 21717752.51 21717752.59 0.2668 0.1832 *

Saturn 54750-05-23 16:48 G 21718229.10 21718229.20 21718229.33 0.0265 0.0206

Saturn 54750-08-20 13:26 G 21718317.87 21718318.06 21718318.25 0.0264 0.0026

Saturn 54750-11-17 09:50 G 21718406.76 21718406.91 21718407.07 0.0264 0.0155

Jupiter 54754-05-21 12:14 G 21719687.89 21719688.01 21719688.13 0.0527 0.0197

Jupiter 54754-08-18 18:00 G 21719777.19 21719777.25 21719777.31 0.0524 0.0452

Mars 54755-10-29 05:02 G 21720213.60 21720213.71 21720213.83 0.1749 0.0436

Moon 54756-01-25 23:02 G 21720302.37 21720302.46 21720302.54 0.2677 0.1650

Earth 54756-01-25 23:17 G 21720302.39 21720302.47 21720302.56 0.2671 0.1632 *

Mars 54756-08-23 15:50 G 21720513.07 21720513.16 21720513.25 0.1786 0.1432

Moon 54758-07-31 08:10 G 21721219.71 21721219.84 21721219.97 0.2665 0.1385

Earth 54758-07-31 09:36 G 21721219.77 21721219.90 21721220.04 0.2662 0.1333 *

Jupiter 54760-10-03 16:34 G 21722015.04 21722015.19 21722015.36 0.0502 0.0247

Uranus 54765-02-02 18:00 G 21723598.21 21723598.25 21723598.29 0.0140 0.0136

Mars 54765-03-20 14:53 G 21723644.01 21723644.12 21723644.23 0.1743 0.0601

Uranus 54765-05-02 01:41 G 21723686.46 21723686.57 21723686.70 0.0140 0.0106

Saturn 54765-06-18 01:55 G 21723733.49 21723733.58 21723733.68 0.0296 0.0196

Uranus 54765-07-29 09:36 G 21723774.75 21723774.90 21723775.07 0.0140 0.0076

Saturn 54765-09-14 14:38 G 21723821.98 21723822.11 21723822.24 0.0296 0.0019

Uranus 54765-10-25 17:31 G 21723863.05 21723863.23 21723863.42 0.0140 0.0045

Saturn 54765-12-12 02:53 G 21723910.51 21723910.62 21723910.73 0.0296 0.0158

Uranus 54766-01-22 01:26 G 21723951.37 21723951.56 21723951.76 0.0139 0.0015

Jupiter 54766-03-09 16:34 G 21723998.10 21723998.19 21723998.28 0.0527 0.0360

Uranus 54766-04-20 09:22 G 21724039.70 21724039.89 21724040.09 0.0139 0.0016

Jupiter 54766-06-06 22:19 G 21724087.33 21724087.43 21724087.54 0.0525 0.0297

Uranus 54766-07-17 17:17 G 21724128.04 21724128.22 21724128.41 0.0139 0.0046

Uranus 54766-10-14 00:58 G 21724216.39 21724216.54 21724216.72 0.0139 0.0077

Uranus 54767-01-10 09:07 G 21724304.76 21724304.88 21724305.01 0.0139 0.0107

Uranus 54767-04-08 16:48 G 21724393.19 21724393.20 21724393.24 0.0139 0.0138

Moon 54769-01-27 17:17 G 21725053.11 21725053.22 21725053.33 0.2676 0.0457

Earth 54769-01-27 17:02 G 21725053.11 21725053.21 21725053.32 0.2670 0.0434 *

Venus 54769-07-25 11:02 G 21725231.87 21725231.96 21725232.04 0.3685 0.1984

Moon 54771-08-03 15:50 G 21725971.02 21725971.16 21725971.30 0.2669 0.1050

Earth 54771-08-03 16:48 G 21725971.06 21725971.20 21725971.34 0.2663 0.1186 *

Jupiter 54772-07-22 12:29 G 21726324.84 21726325.02 21726325.20 0.0501 0.0014

Mars 54774-08-11 00:29 G 21727074.48 21727074.52 21727074.55 0.1736 0.1645

Venus 54775-02-08 02:10 G 21727255.49 21727255.59 21727255.69 0.3684 0.0418

Jupiter 54777-12-26 21:07 G 21728308.36 21728308.38 21728308.40 0.0528 0.0517

Jupiter 54778-03-26 03:07 G 21728397.51 21728397.63 21728397.76 0.0525 0.0146

Saturn 54779-10-10 17:31 G 21728961.17 21728961.23 21728961.30 0.0265 0.0246

Saturn 54780-01-07 13:55 G 21729049.90 21729050.08 21729050.26 0.0264 0.0069

Saturn 54780-04-05 10:19 G 21729138.76 21729138.93 21729139.10 0.0264 0.0111

Venus 54780-08-23 17:02 G 21729279.15 21729279.21 21729279.28 0.3684 0.2736

Earth 54782-01-30 10:48 G 21729803.85 21729803.95 21729804.06 0.2669 0.0764

Moon 54782-01-30 11:17 G 21729803.87 21729803.97 21729804.08 0.2673 0.0905 *

Jupiter 54784-05-10 09:50 G 21730634.74 21730634.91 21730635.08 0.0501 0.0192

Mars 54785-12-06 19:26 G 21731210.27 21731210.31 21731210.35 0.1756 0.1617

Mars 54786-10-02 17:17 G 21731510.07 21731510.22 21731510.37 0.1778 0.0636

Earth 54789-01-23 10:19 G 21732353.91 21732353.93 21732353.95 0.2672 0.2620

Jupiter 54790-01-12 07:26 G 21732707.68 21732707.81 21732707.94 0.0526 0.0017

Venus 54794-06-26 18:00 G 21734334.12 21734334.25 21734334.38 0.3686 0.2121

Saturn 54794-11-05 02:53 G 21734465.56 21734465.62 21734465.68 0.0296 0.0262

Saturn 54795-02-01 15:22 G 21734554.02 21734554.14 21734554.27 0.0296 0.0085

Earth 54795-02-02 04:19 G 21734554.61 21734554.68 21734554.76 0.2668 0.1936

Moon 54795-02-02 05:02 G 21734554.64 21734554.71 21734554.79 0.2666 0.1957 *

Mars 54795-04-29 05:17 G 21734640.60 21734640.72 21734640.83 0.1749 0.0587

Saturn 54795-05-01 03:50 G 21734642.54 21734642.66 21734642.79 0.0297 0.0092

Saturn 54795-07-28 16:19 G 21734731.12 21734731.18 21734731.23 0.0297 0.0267

Mars 54796-02-22 16:19 G 21734940.07 21734940.18 21734940.30 0.1786 0.1210

Jupiter 54796-02-27 07:41 G 21734944.71 21734944.82 21734944.93 0.0500 0.0392

Jupiter 54796-05-27 17:17 G 21735035.16 21735035.22 21735035.30 0.0503 0.0459

Jupiter 54801-10-31 11:31 G 21737017.86 21737017.98 21737018.10 0.0526 0.0182

Moon 54802-01-26 03:50 G 21737104.57 21737104.66 21737104.75 0.2677 0.1475

Earth 54802-01-26 04:05 G 21737104.58 21737104.67 21737104.77 0.2671 0.1402 *

Jupiter 54802-01-28 17:02 G 21737107.16 21737107.21 21737107.27 0.0524 0.0466

Moon 54804-07-31 14:53 G 21738021.98 21738022.12 21738022.26 0.2666 0.1144

Earth 54804-07-31 16:19 G 21738022.03 21738022.18 21738022.33 0.2662 0.0883 *

Mars 54804-09-18 14:53 G 21738071.00 21738071.12 21738071.23 0.1742 0.0461

Jupiter 54808-03-15 14:53 G 21739344.96 21739345.12 21739345.28 0.0502 0.0250

Uranus 54808-10-25 20:24 G 21739569.29 21739569.35 21739569.41 0.0138 0.0122

Uranus 54809-01-21 23:31 G 21739657.40 21739657.48 21739657.58 0.0138 0.0102

Uranus 54809-04-20 02:53 G 21739745.52 21739745.62 21739745.73 0.0139 0.0081

Saturn 54809-05-26 12:43 G 21739781.87 21739782.03 21739782.20 0.0264 0.0123

Uranus 54809-07-17 06:14 G 21739833.64 21739833.76 21739833.88 0.0139 0.0061

Saturn 54809-08-23 09:07 G 21739870.70 21739870.88 21739871.07 0.0264 0.0057

Uranus 54809-10-13 09:22 G 21739921.77 21739921.89 21739922.02 0.0139 0.0041

Saturn 54809-11-20 05:31 G 21739959.66 21739959.73 21739959.82 0.0264 0.0238

Uranus 54810-01-09 12:43 G 21740009.90 21740010.03 21740010.16 0.0139 0.0020

Uranus 54810-04-07 16:05 G 21740098.04 21740098.17 21740098.30 0.0139 0.0001

Uranus 54810-07-04 19:12 G 21740186.17 21740186.30 21740186.43 0.0139 0.0021

Uranus 54810-09-30 22:34 G 21740274.31 21740274.44 21740274.57 0.0139 0.0041

Uranus 54810-12-28 01:41 G 21740362.46 21740362.57 21740362.69 0.0139 0.0062

Uranus 54811-03-26 05:02 G 21740450.61 21740450.71 21740450.82 0.0139 0.0082

Uranus 54811-06-22 08:24 G 21740538.76 21740538.85 21740538.93 0.0139 0.0103

Uranus 54811-09-18 11:17 G 21740626.92 21740626.97 21740627.04 0.0140 0.0124

Neptune 54812-11-28 21:50 G 21741064.39 21741064.41 21741064.45 0.0089 0.0087

Neptune 54813-02-24 23:02 G 21741152.42 21741152.46 21741152.54 0.0089 0.0080

Neptune 54813-05-24 00:29 G 21741240.46 21741240.52 21741240.61 0.0089 0.0071

Jupiter 54813-08-19 15:07 G 21741328.04 21741328.13 21741328.22 0.0527 0.0358

Neptune 54813-08-20 01:55 G 21741328.50 21741328.58 21741328.69 0.0089 0.0063

Neptune 54813-11-16 03:22 G 21741416.54 21741416.64 21741416.75 0.0089 0.0055

Jupiter 54813-11-16 21:07 G 21741417.27 21741417.38 21741417.48 0.0524 0.0298

Mars 54814-02-09 00:29 G 21741501.46 21741501.52 21741501.58 0.1736 0.1487

Neptune 54814-02-12 04:48 G 21741504.59 21741504.70 21741504.82 0.0089 0.0047

Neptune 54814-05-11 06:00 G 21741592.64 21741592.75 21741592.88 0.0089 0.0040

Neptune 54814-08-07 07:26 G 21741680.69 21741680.81 21741680.94 0.0089 0.0031

Neptune 54814-11-03 08:53 G 21741768.74 21741768.87 21741769.00 0.0089 0.0023

Earth 54815-01-28 21:50 G 21741855.30 21741855.41 21741855.52 0.2670 0.0218

Moon 54815-01-28 22:19 G 21741855.32 21741855.43 21741855.53 0.2676 0.0164 *

Neptune 54815-01-30 10:19 G 21741856.80 21741856.93 21741857.06 0.0089 0.0015

Neptune 54815-04-28 11:31 G 21741944.85 21741944.98 21741945.12 0.0089 0.0008

Neptune 54815-07-25 12:58 G 21742032.91 21742033.04 21742033.17 0.0089 0.0001

Neptune 54815-10-21 14:10 G 21742120.96 21742121.09 21742121.23 0.0089 0.0009

Neptune 54816-01-17 15:36 G 21742209.02 21742209.15 21742209.28 0.0089 0.0016

Neptune 54816-04-14 16:48 G 21742297.08 21742297.20 21742297.33 0.0089 0.0024

Neptune 54816-07-11 18:00 G 21742385.14 21742385.25 21742385.38 0.0089 0.0032

Neptune 54816-10-07 19:26 G 21742473.20 21742473.31 21742473.43 0.0089 0.0040

Neptune 54817-01-03 20:53 G 21742561.26 21742561.37 21742561.48 0.0089 0.0047

Neptune 54817-04-01 22:05 G 21742649.32 21742649.42 21742649.53 0.0089 0.0055

Neptune 54817-06-28 23:17 G 21742737.39 21742737.47 21742737.57 0.0089 0.0063

Moon 54817-08-03 22:48 G 21742773.33 21742773.45 21742773.57 0.2669 0.1655

Earth 54817-08-03 23:17 G 21742773.35 21742773.47 21742773.60 0.2663 0.1639 *

Neptune 54817-09-25 00:29 G 21742825.45 21742825.52 21742825.61 0.0089 0.0071

Neptune 54817-12-22 02:10 G 21742913.53 21742913.59 21742913.65 0.0089 0.0078

Neptune 54818-03-20 03:07 G 21743001.61 21743001.63 21743001.67 0.0089 0.0086

Jupiter 54820-01-02 11:46 G 21743654.81 21743654.99 21743655.18 0.0501 0.0037

Venus 54820-08-15 17:02 G 21743881.18 21743881.21 21743881.24 0.3685 0.3479

Saturn 54824-06-20 18:00 G 21745286.14 21745286.25 21745286.37 0.0296 0.0127

Saturn 54824-09-17 06:43 G 21745374.65 21745374.78 21745374.91 0.0296 0.0051

Saturn 54824-12-14 18:58 G 21745463.21 21745463.29 21745463.38 0.0297 0.0226

Jupiter 54825-06-07 19:12 G 21745638.29 21745638.30 21745638.32 0.0528 0.0523

Jupiter 54825-09-05 01:26 G 21745727.44 21745727.56 21745727.68 0.0525 0.0140

Venus 54826-03-01 08:10 G 21745904.75 21745904.84 21745904.94 0.3685 0.1107

Mars 54826-04-02 17:31 G 21745937.09 21745937.23 21745937.37 0.1778 0.0832

Earth 54828-01-31 15:36 G 21746606.05 21746606.15 21746606.25 0.2669 0.0990

Moon 54828-01-31 16:19 G 21746606.08 21746606.18 21746606.28 0.2672 0.1004 *

Venus 54831-09-14 23:17 G 21747928.38 21747928.47 21747928.57 0.3684 0.1272

Jupiter 54831-10-21 07:41 G 21747964.65 21747964.82 21747964.99 0.0500 0.0193

Mars 54834-10-28 05:02 G 21749067.60 21749067.71 21749067.82 0.1749 0.0718

Moon 54835-01-24 14:38 G 21749156.06 21749156.11 21749156.15 0.2676 0.2432

Earth 54835-01-24 15:07 G 21749156.08 21749156.13 21749156.18 0.2672 0.2386 *

Mars 54835-08-23 17:02 G 21749367.07 21749367.21 21749367.34 0.1786 0.0973

Venus 54837-03-30 14:24 G 21749952.08 21749952.10 21749952.12 0.3684 0.3604

Jupiter 54837-06-24 06:00 G 21750037.63 21750037.75 21750037.88 0.0526 0.0023

Saturn 54838-10-13 12:58 G 21750513.91 21750514.04 21750514.19 0.0264 0.0166

Saturn 54839-01-10 09:22 G 21750602.71 21750602.89 21750603.08 0.0264 0.0015

Saturn 54839-04-09 05:46 G 21750691.62 21750691.74 21750691.87 0.0264 0.0194

Pluto 54839-08-21 05:02 G 21750825.69 21750825.71 21750825.75 0.0067 0.0065

Pluto 54839-11-17 05:46 G 21750913.67 21750913.74 21750913.83 0.0067 0.0054

Pluto 54840-02-13 06:29 G 21751001.67 21751001.77 21751001.88 0.0067 0.0044

Pluto 54840-05-11 06:43 G 21751089.67 21751089.78 21751089.92 0.0067 0.0034

Pluto 54840-08-07 07:26 G 21751177.69 21751177.81 21751177.95 0.0068 0.0023

Pluto 54840-11-03 08:10 G 21751265.71 21751265.84 21751265.98 0.0068 0.0011

Pluto 54841-01-30 08:53 G 21751353.73 21751353.87 21751354.01 0.0068 0.0000

Earth 54841-02-02 09:22 G 21751356.82 21751356.89 21751356.95 0.2667 0.2157

Moon 54841-02-02 09:50 G 21751356.86 21751356.91 21751356.97 0.2665 0.2301 *

Pluto 54841-04-28 09:22 G 21751441.76 21751441.89 21751442.03 0.0068 0.0011

Pluto 54841-07-25 09:50 G 21751529.79 21751529.91 21751530.05 0.0068 0.0022

Pluto 54841-10-21 10:19 G 21751617.82 21751617.93 21751618.06 0.0068 0.0033

Pluto 54842-01-17 11:02 G 21751705.86 21751705.96 21751706.07 0.0068 0.0044

Pluto 54842-04-15 11:31 G 21751793.91 21751793.98 21751794.07 0.0068 0.0055

Pluto 54842-07-12 12:14 G 21751881.99 21751882.01 21751882.05 0.0068 0.0066

Jupiter 54843-08-09 05:17 G 21752274.61 21752274.72 21752274.84 0.0500 0.0395

Jupiter 54843-11-07 15:07 G 21752365.05 21752365.13 21752365.21 0.0503 0.0454

Mars 54844-03-19 14:53 G 21752498.00 21752498.12 21752498.23 0.1743 0.0312

Moon 54848-01-27 08:38 G 21753906.77 21753906.86 21753906.96 0.2677 0.1207

Earth 54848-01-27 09:07 G 21753906.78 21753906.88 21753906.97 0.2671 0.1176 *

Uranus 54849-02-23 01:26 G 21754299.49 21754299.56 21754299.65 0.0140 0.0127

Jupiter 54849-04-12 10:19 G 21754347.81 21754347.93 21754348.06 0.0527 0.0174

Uranus 54849-05-22 09:22 G 21754387.76 21754387.89 21754388.03 0.0140 0.0097

Jupiter 54849-07-10 16:05 G 21754437.12 21754437.17 21754437.22 0.0524 0.0474

Uranus 54849-08-18 17:02 G 21754476.05 21754476.21 21754476.39 0.0140 0.0067

Uranus 54849-11-15 01:12 G 21754564.36 21754564.55 21754564.74 0.0140 0.0036

Uranus 54850-02-11 09:07 G 21754652.69 21754652.88 21754653.07 0.0139 0.0006

Uranus 54850-05-10 16:48 G 21754741.02 21754741.20 21754741.40 0.0139 0.0026

Moon 54850-08-01 21:36 G 21754824.24 21754824.40 21754824.55 0.2667 0.0474

Earth 54850-08-01 22:48 G 21754824.30 21754824.45 21754824.61 0.2662 0.0441 *

Uranus 54850-08-07 00:58 G 21754829.36 21754829.54 21754829.72 0.0139 0.0056

Uranus 54850-11-03 08:38 G 21754917.72 21754917.86 21754918.02 0.0139 0.0086

Uranus 54851-01-30 16:48 G 21755006.10 21755006.20 21755006.31 0.0139 0.0116

Mars 54853-08-10 00:29 G 21755928.45 21755928.52 21755928.60 0.1736 0.1336

Saturn 54853-11-07 18:29 G 21756018.18 21756018.27 21756018.37 0.0296 0.0197

Saturn 54854-02-04 07:12 G 21756106.67 21756106.80 21756106.93 0.0297 0.0020

Saturn 54854-05-03 19:26 G 21756195.21 21756195.31 21756195.43 0.0297 0.0157

Jupiter 54855-08-26 12:29 G 21756674.87 21756675.02 21756675.19 0.0502 0.0248

Earth 54861-01-29 02:38 G 21758657.50 21758657.61 21758657.72 0.2670 0.0113

Moon 54861-01-29 03:07 G 21758657.52 21758657.63 21758657.74 0.2676 0.0047 *

Jupiter 54861-01-29 14:24 G 21758658.01 21758658.10 21758658.20 0.0527 0.0340

Jupiter 54861-04-28 20:24 G 21758747.25 21758747.35 21758747.45 0.0524 0.0315

Moon 54863-08-05 06:00 G 21759575.65 21759575.75 21759575.85 0.2670 0.1999

Earth 54863-08-05 06:00 G 21759575.66 21759575.75 21759575.85 0.2663 0.2102 *

Mars 54865-10-01 18:14 G 21760364.13 21760364.26 21760364.39 0.1778 0.1076

Jupiter 54867-06-14 10:19 G 21760984.74 21760984.93 21760985.11 0.0501 0.0044

Saturn 54868-03-01 11:31 G 21761245.89 21761245.98 21761246.08 0.0264 0.0225

Saturn 54868-05-29 07:55 G 21761334.64 21761334.83 21761335.01 0.0264 0.0047

Saturn 54868-08-26 04:19 G 21761423.52 21761423.68 21761423.84 0.0264 0.0133

Jupiter 54872-11-17 18:00 G 21762968.23 21762968.25 21762968.28 0.0528 0.0517

Jupiter 54873-02-15 00:14 G 21763057.39 21763057.51 21763057.63 0.0525 0.0146

Earth 54874-01-31 20:24 G 21763408.25 21763408.35 21763408.45 0.2668 0.1210

Moon 54874-01-31 21:07 G 21763408.28 21763408.38 21763408.47 0.2670 0.1340 *

Mars 54874-04-28 05:02 G 21763494.61 21763494.71 21763494.82 0.1749 0.0872

Mars 54875-02-21 17:17 G 21763794.08 21763794.22 21763794.37 0.1786 0.0757

Venus 54877-03-22 14:24 G 21764554.03 21764554.10 21764554.17 0.3685 0.2592

Jupiter 54879-04-02 07:26 G 21765294.64 21765294.81 21765294.98 0.0501 0.0166

Moon 54881-01-24 19:26 G 21765958.25 21765958.31 21765958.36 0.2676 0.2284

Earth 54881-01-24 19:55 G 21765958.27 21765958.33 21765958.40 0.2672 0.2154 *

Venus 54882-10-06 05:31 G 21766577.63 21766577.73 21766577.83 0.3685 0.0225

Saturn 54883-03-27 20:53 G 21766750.30 21766750.37 21766750.45 0.0296 0.0243

Saturn 54883-06-24 09:36 G 21766838.77 21766838.90 21766839.03 0.0296 0.0066

Moon 54883-07-30 21:07 G 21766875.35 21766875.38 21766875.42 0.2663 0.2583

Earth 54883-07-30 22:48 G 21766875.39 21766875.45 21766875.51 0.2661 0.2441 *

Mars 54883-09-18 14:53 G 21766925.00 21766925.12 21766925.24 0.1742 0.0168

Saturn 54883-09-20 22:05 G 21766927.30 21766927.42 21766927.54 0.0296 0.0111

Saturn 54883-12-18 10:19 G 21767015.90 21767015.93 21767015.97 0.0297 0.0286

Jupiter 54884-12-04 04:34 G 21767367.56 21767367.69 21767367.82 0.0526 0.0016

Earth 54887-02-03 13:55 G 21768159.04 21768159.08 21768159.13 0.2667 0.2375

Moon 54887-02-03 14:38 G 21768159.07 21768159.11 21768159.16 0.2665 0.2386 *

Venus 54888-04-20 20:38 G 21768601.28 21768601.36 21768601.44 0.3684 0.2138

Jupiter 54891-01-19 03:36 G 21769604.54 21769604.65 21769604.76 0.0500 0.0392

Jupiter 54891-04-19 13:12 G 21769694.98 21769695.05 21769695.13 0.0502 0.0456

Uranus 54892-08-19 00:43 G 21770182.50 21770182.53 21770182.55 0.0138 0.0136

Uranus 54892-11-15 03:50 G 21770270.59 21770270.66 21770270.73 0.0138 0.0115

Mars 54893-02-08 00:29 G 21770355.43 21770355.52 21770355.60 0.1736 0.1197

Uranus 54893-02-11 06:58 G 21770358.70 21770358.79 21770358.89 0.0138 0.0095

Uranus 54893-05-10 10:19 G 21770446.83 21770446.93 21770447.05 0.0139 0.0075

Uranus 54893-08-06 13:41 G 21770534.95 21770535.07 21770535.19 0.0139 0.0054

Uranus 54893-11-02 17:02 G 21770623.08 21770623.21 21770623.34 0.0139 0.0034

Moon 54894-01-27 13:41 G 21770708.97 21770709.07 21770709.17 0.2677 0.0934

Earth 54894-01-27 13:55 G 21770708.97 21770709.08 21770709.18 0.2671 0.0945 *

Uranus 54894-01-29 20:10 G 21770711.21 21770711.34 21770711.47 0.0139 0.0014

Uranus 54894-04-27 23:31 G 21770799.35 21770799.48 21770799.61 0.0139 0.0007

Uranus 54894-07-25 02:38 G 21770887.49 21770887.61 21770887.74 0.0139 0.0028

Uranus 54894-10-21 06:00 G 21770975.63 21770975.75 21770975.87 0.0139 0.0048

Uranus 54895-01-17 09:07 G 21771063.77 21771063.88 21771064.00 0.0139 0.0069

Uranus 54895-04-15 12:29 G 21771151.92 21771152.02 21771152.12 0.0139 0.0089

Uranus 54895-07-12 15:36 G 21771240.08 21771240.15 21771240.24 0.0139 0.0109

Uranus 54895-10-08 18:58 G 21771328.25 21771328.29 21771328.34 0.0139 0.0130

Moon 54896-08-02 04:19 G 21771626.53 21771626.68 21771626.84 0.2667 0.0217

Earth 54896-08-02 05:31 G 21771626.57 21771626.73 21771626.89 0.2662 0.0034 *

Jupiter 54896-09-22 09:22 G 21771677.76 21771677.89 21771678.01 0.0527 0.0168

Jupiter 54896-12-20 14:53 G 21771767.08 21771767.12 21771767.17 0.0524 0.0482

Neptune 54897-04-25 03:36 G 21771892.58 21771892.65 21771892.76 0.0088 0.0079

Neptune 54897-07-22 07:12 G 21771980.69 21771980.80 21771980.94 0.0088 0.0067

Saturn 54897-10-16 07:55 G 21772066.66 21772066.83 21772067.01 0.0264 0.0090

Neptune 54897-10-18 10:48 G 21772068.81 21772068.95 21772069.11 0.0088 0.0056

Saturn 54898-01-13 04:19 G 21772155.51 21772155.68 21772155.86 0.0264 0.0090

Neptune 54898-01-14 14:10 G 21772156.94 21772157.09 21772157.27 0.0088 0.0046

Neptune 54898-04-12 17:46 G 21772245.07 21772245.24 21772245.43 0.0088 0.0034

Neptune 54898-07-09 21:22 G 21772333.21 21772333.39 21772333.59 0.0088 0.0023

Neptune 54898-10-06 01:12 G 21772421.35 21772421.55 21772421.74 0.0088 0.0012

Neptune 54899-01-02 04:34 G 21772509.50 21772509.69 21772509.89 0.0088 0.0002

Neptune 54899-03-31 08:10 G 21772597.65 21772597.84 21772598.04 0.0088 0.0011

Neptune 54899-06-27 11:31 G 21772685.80 21772685.98 21772686.18 0.0088 0.0022

Neptune 54899-09-23 15:07 G 21772773.96 21772774.13 21772774.32 0.0088 0.0033

Neptune 54899-12-20 18:43 G 21772862.12 21772862.28 21772862.46 0.0088 0.0045

Neptune 54900-03-18 22:34 G 21772950.29 21772950.44 21772950.59 0.0088 0.0056

Neptune 54900-06-15 01:41 G 21773038.46 21773038.57 21773038.71 0.0088 0.0067

Neptune 54900-09-11 05:17 G 21773126.65 21773126.72 21773126.83 0.0088 0.0079

Venus 54902-02-22 12:00 G 21773655.85 21773656.00 21773656.16 0.3686 0.0995

Jupiter 54903-02-06 10:34 G 21774004.78 21774004.94 21774005.10 0.0502 0.0248

Mars 54905-04-02 18:43 G 21774791.18 21774791.28 21774791.39 0.1778 0.1313

Earth 54907-01-31 07:41 G 21775459.71 21775459.82 21775459.93 0.2669 0.0275

Moon 54907-01-31 07:55 G 21775459.72 21775459.83 21775459.94 0.2675 0.0316 *

Jupiter 54908-07-12 13:26 G 21775987.97 21775988.06 21775988.17 0.0527 0.0329

Jupiter 54908-10-09 19:26 G 21776077.21 21776077.31 21776077.41 0.0524 0.0327

Earth 54909-08-06 12:43 G 21776377.99 21776378.03 21776378.07 0.2664 0.2556

Saturn 54912-11-11 09:50 G 21777570.80 21777570.91 21777571.03 0.0296 0.0138

Saturn 54913-02-07 22:19 G 21777659.31 21777659.43 21777659.57 0.0296 0.0041

Saturn 54913-05-07 10:48 G 21777747.86 21777747.95 21777748.04 0.0297 0.0215

Mars 54913-10-28 05:02 G 21777921.62 21777921.71 21777921.81 0.1749 0.1021

Mars 54914-08-23 18:00 G 21778221.10 21778221.25 21778221.40 0.1786 0.0531

Jupiter 54914-11-25 08:10 G 21778314.66 21778314.84 21778315.03 0.0501 0.0044

Earth 54920-02-03 01:12 G 21780210.46 21780210.55 21780210.64 0.2668 0.1433

Moon 54920-02-03 01:55 G 21780210.49 21780210.58 21780210.67 0.2669 0.1486 *

Jupiter 54920-04-30 17:46 G 21780298.19 21780298.24 21780298.28 0.0528 0.0495

Jupiter 54920-07-28 23:46 G 21780387.37 21780387.49 21780387.61 0.0525 0.0167

Mars 54923-03-20 14:53 G 21781352.00 21781352.12 21781352.24 0.1743 0.0032

Pluto 54926-06-10 17:02 G 21782530.18 21782530.21 21782530.27 0.0077 0.0074

Pluto 54926-09-06 19:12 G 21782618.19 21782618.30 21782618.45 0.0077 0.0053

Jupiter 54926-09-13 06:00 G 21782624.58 21782624.75 21782624.93 0.0501 0.0157

Pluto 54926-12-03 21:36 G 21782706.24 21782706.40 21782706.58 0.0077 0.0032

Moon 54927-01-27 00:14 G 21782760.44 21782760.51 21782760.59 0.2676 0.1943

Earth 54927-01-27 00:43 G 21782760.46 21782760.53 21782760.61 0.2672 0.1926 *

Pluto 54927-03-02 00:00 G 21782794.32 21782794.50 21782794.69 0.0077 0.0011

Saturn 54927-03-06 05:46 G 21782798.59 21782798.74 21782798.89 0.0264 0.0155

Pluto 54927-05-29 02:24 G 21782882.42 21782882.60 21782882.78 0.0077 0.0011

Saturn 54927-06-03 02:10 G 21782887.40 21782887.59 21782887.78 0.0264 0.0024

Pluto 54927-08-25 04:34 G 21782970.53 21782970.69 21782970.86 0.0076 0.0032

Saturn 54927-08-30 22:34 G 21782976.33 21782976.44 21782976.56 0.0264 0.0205

Pluto 54927-11-21 06:43 G 21783058.65 21783058.78 21783058.92 0.0076 0.0053

Pluto 54928-02-17 08:38 G 21783146.83 21783146.86 21783146.93 0.0076 0.0074

Moon 54929-08-01 03:50 G 21783677.57 21783677.66 21783677.74 0.2664 0.2193

Earth 54929-08-01 05:17 G 21783677.62 21783677.72 21783677.82 0.2661 0.2007 *

Jupiter 54932-05-17 03:36 G 21784697.52 21784697.65 21784697.78 0.0526 0.0004

Mars 54932-08-10 00:29 G 21784782.43 21784782.52 21784782.62 0.1736 0.1046

Earth 54933-02-04 18:43 G 21784961.26 21784961.28 21784961.31 0.2667 0.2592

Uranus 54933-03-16 09:07 G 21785000.78 21785000.88 21785000.98 0.0140 0.0118

Uranus 54933-06-12 16:48 G 21785089.06 21785089.20 21785089.36 0.0140 0.0088

Uranus 54933-09-09 00:43 G 21785177.36 21785177.53 21785177.71 0.0140 0.0057

Venus 54933-10-28 11:46 G 21785226.90 21785226.99 21785227.08 0.3685 0.1713

Uranus 54933-12-06 08:38 G 21785265.67 21785265.86 21785266.05 0.0140 0.0027

Uranus 54934-03-04 16:34 G 21785354.00 21785354.19 21785354.39 0.0139 0.0004

Uranus 54934-06-01 00:29 G 21785442.33 21785442.52 21785442.71 0.0139 0.0034

Uranus 54934-08-28 08:10 G 21785530.68 21785530.84 21785531.02 0.0139 0.0065

Uranus 54934-11-24 16:19 G 21785619.04 21785619.18 21785619.32 0.0139 0.0095

Uranus 54935-02-21 00:00 G 21785707.44 21785707.50 21785707.60 0.0139 0.0126

Jupiter 54938-07-02 03:22 G 21786934.52 21786934.64 21786934.77 0.0500 0.0362

Jupiter 54938-09-30 13:12 G 21787025.01 21787025.05 21787025.09 0.0503 0.0488

Venus 54939-05-14 02:53 G 21787250.52 21787250.62 21787250.72 0.3684 0.0662

Earth 54940-01-29 18:43 G 21787511.17 21787511.28 21787511.38 0.2670 0.0712

Moon 54940-01-29 18:43 G 21787511.18 21787511.28 21787511.39 0.2677 0.0750 *

Saturn 54942-03-31 12:00 G 21788302.90 21788303.00 21788303.10 0.0296 0.0189

Saturn 54942-06-28 00:29 G 21788391.39 21788391.52 21788391.65 0.0296 0.0012

Moon 54942-08-04 11:17 G 21788428.82 21788428.97 21788429.12 0.2668 0.0447

Earth 54942-08-04 12:14 G 21788428.85 21788429.01 21788429.16 0.2662 0.0469 *

Saturn 54942-09-24 12:58 G 21788479.93 21788480.04 21788480.15 0.0297 0.0164

Jupiter 54944-03-05 07:55 G 21789007.71 21789007.83 21789007.95 0.0527 0.0164

Jupiter 54944-06-02 13:41 G 21789097.02 21789097.07 21789097.11 0.0524 0.0485

Mars 54944-10-01 19:12 G 21789218.22 21789218.30 21789218.38 0.1778 0.1521

Venus 54944-11-26 17:46 G 21789274.19 21789274.24 21789274.30 0.3684 0.2999

Jupiter 54950-07-19 08:53 G 21791334.71 21791334.87 21791335.03 0.0502 0.0254

Earth 54953-01-31 12:29 G 21792261.91 21792262.02 21792262.13 0.2669 0.0485

Moon 54953-01-31 12:58 G 21792261.93 21792262.04 21792262.14 0.2674 0.0554 *

Mars 54953-04-28 05:02 G 21792348.62 21792348.71 21792348.80 0.1749 0.1158

Mars 54954-02-21 18:43 G 21792648.12 21792648.28 21792648.43 0.1786 0.0288

Jupiter 54955-12-23 12:29 G 21793317.92 21793318.02 21793318.12 0.0528 0.0322

Jupiter 54956-03-21 18:14 G 21793407.17 21793407.26 21793407.36 0.0525 0.0336

Saturn 54956-07-23 06:00 G 21793530.63 21793530.75 21793530.88 0.0265 0.0198

Saturn 54956-10-20 02:24 G 21793619.41 21793619.60 21793619.78 0.0264 0.0020

Saturn 54957-01-16 22:48 G 21793708.30 21793708.45 21793708.60 0.0264 0.0161

Venus 54958-09-29 14:38 G 21794328.97 21794329.11 21794329.24 0.3686 0.2003

Jupiter 54962-05-07 06:29 G 21795644.58 21795644.77 21795644.95 0.0501 0.0048

Mars 54962-09-18 14:53 G 21795779.00 21795779.12 21795779.24 0.1743 0.0136

Earth 54966-02-03 06:00 G 21797012.67 21797012.75 21797012.84 0.2668 0.1655

Moon 54966-02-03 06:43 G 21797012.70 21797012.78 21797012.86 0.2668 0.1768 *

Jupiter 54967-10-11 16:48 G 21797628.15 21797628.20 21797628.25 0.0528 0.0483

Jupiter 54968-01-08 22:48 G 21797717.33 21797717.45 21797717.57 0.0525 0.0181

Saturn 54971-08-18 12:14 G 21799034.95 21799035.01 21799035.07 0.0296 0.0261

Saturn 54971-11-15 00:58 G 21799123.41 21799123.54 21799123.66 0.0296 0.0084

Mars 54972-02-09 00:29 G 21799209.42 21799209.52 21799209.62 0.1736 0.0893

Saturn 54972-02-11 13:26 G 21799211.93 21799212.06 21799212.18 0.0296 0.0093

Saturn 54972-05-10 01:41 G 21799300.52 21799300.57 21799300.63 0.0297 0.0267

Moon 54973-01-27 05:17 G 21799562.64 21799562.72 21799562.80 0.2676 0.1807

Earth 54973-01-27 05:46 G 21799562.65 21799562.74 21799562.82 0.2672 0.1689 *

Jupiter 54974-02-23 04:19 G 21799954.50 21799954.68 21799954.85 0.0501 0.0154

Moon 54975-08-02 10:19 G 21800479.82 21800479.93 21800480.05 0.2664 0.1748

Earth 54975-08-02 12:00 G 21800479.87 21800480.00 21800480.12 0.2661 0.1563 *

Uranus 54976-09-09 08:10 G 21800883.80 21800883.84 21800883.89 0.0138 0.0129

Uranus 54976-12-06 11:17 G 21800971.90 21800971.97 21800972.06 0.0138 0.0109

Uranus 54977-03-04 14:38 G 21801060.01 21801060.11 21801060.21 0.0138 0.0088

Uranus 54977-05-31 18:00 G 21801148.14 21801148.25 21801148.36 0.0138 0.0068

Neptune 54977-08-26 21:07 G 21801235.35 21801235.38 21801235.43 0.0089 0.0085

Uranus 54977-08-27 21:07 G 21801236.26 21801236.38 21801236.51 0.0139 0.0048

Neptune 54977-11-22 22:34 G 21801323.38 21801323.44 21801323.51 0.0089 0.0077

Uranus 54977-11-24 00:29 G 21801324.39 21801324.52 21801324.65 0.0139 0.0027

Neptune 54978-02-19 00:00 G 21801411.42 21801411.50 21801411.59 0.0089 0.0069

Uranus 54978-02-20 03:50 G 21801412.53 21801412.66 21801412.79 0.0139 0.0007

Neptune 54978-05-18 01:12 G 21801499.46 21801499.55 21801499.65 0.0089 0.0061

Uranus 54978-05-19 06:58 G 21801500.66 21801500.79 21801500.92 0.0139 0.0014

Neptune 54978-08-14 02:38 G 21801587.51 21801587.61 21801587.72 0.0089 0.0053

Uranus 54978-08-15 10:19 G 21801588.80 21801588.93 21801589.06 0.0139 0.0034

Neptune 54978-11-10 04:05 G 21801675.56 21801675.67 21801675.79 0.0089 0.0045

Uranus 54978-11-11 13:26 G 21801676.94 21801677.06 21801677.19 0.0139 0.0055

Neptune 54979-02-06 05:31 G 21801763.61 21801763.73 21801763.85 0.0089 0.0037

Uranus 54979-02-07 16:48 G 21801765.09 21801765.20 21801765.31 0.0139 0.0075

Neptune 54979-05-05 06:43 G 21801851.66 21801851.78 21801851.91 0.0089 0.0030

Uranus 54979-05-06 20:10 G 21801853.24 21801853.34 21801853.43 0.0139 0.0096

Neptune 54979-08-01 08:10 G 21801939.71 21801939.84 21801939.97 0.0089 0.0022

Uranus 54979-08-02 23:02 G 21801941.40 21801941.46 21801941.54 0.0139 0.0117

Jupiter 54979-10-28 03:07 G 21802027.51 21802027.63 21802027.76 0.0526 0.0023

Neptune 54979-10-28 09:22 G 21802027.76 21802027.89 21802028.03 0.0089 0.0014 *

Uranus 54979-10-30 02:24 G 21802029.59 21802029.60 21802029.63 0.0139 0.0137

Neptune 54980-01-24 10:48 G 21802115.82 21802115.95 21802116.09 0.0089 0.0006

Neptune 54980-04-21 12:14 G 21802203.88 21802204.01 21802204.14 0.0089 0.0003

Neptune 54980-07-18 13:26 G 21802291.93 21802292.06 21802292.20 0.0089 0.0010

Neptune 54980-10-14 14:53 G 21802379.99 21802380.12 21802380.25 0.0089 0.0018

Neptune 54981-01-10 16:05 G 21802468.05 21802468.17 21802468.30 0.0089 0.0026

Neptune 54981-04-08 17:17 G 21802556.11 21802556.22 21802556.35 0.0089 0.0034

Neptune 54981-07-05 18:43 G 21802644.17 21802644.28 21802644.40 0.0089 0.0041

Neptune 54981-10-01 20:10 G 21802732.23 21802732.34 21802732.45 0.0089 0.0049

Neptune 54981-12-28 21:22 G 21802820.29 21802820.39 21802820.50 0.0089 0.0057

Neptune 54982-03-26 22:34 G 21802908.36 21802908.44 21802908.54 0.0089 0.0065

Neptune 54982-06-23 00:00 G 21802996.43 21802996.50 21802996.58 0.0089 0.0072

Neptune 54982-09-19 01:12 G 21803084.50 21803084.55 21803084.61 0.0089 0.0080

Neptune 54982-12-16 02:24 G 21803172.59 21803172.60 21803172.63 0.0089 0.0088

Mars 54984-04-01 19:55 G 21803645.31 21803645.33 21803645.35 0.1778 0.1759

Venus 54984-11-18 18:00 G 21803876.20 21803876.25 21803876.29 0.3685 0.3221

Jupiter 54985-12-12 02:10 G 21804264.47 21804264.59 21804264.72 0.0500 0.0351

Moon 54986-01-29 23:31 G 21804313.37 21804313.48 21804313.59 0.2678 0.0423

Earth 54986-01-29 23:31 G 21804313.37 21804313.48 21804313.59 0.2670 0.0486 *

Saturn 54986-03-08 23:31 G 21804351.31 21804351.48 21804351.66 0.0264 0.0089

Jupiter 54986-03-12 12:00 G 21804354.99 21804355.00 21804355.01 0.0503 0.0501

Saturn 54986-06-05 19:55 G 21804440.16 21804440.33 21804440.51 0.0264 0.0091

Moon 54988-08-04 18:14 G 21805231.12 21805231.26 21805231.41 0.2669 0.0829

Earth 54988-08-04 18:43 G 21805231.14 21805231.28 21805231.43 0.2663 0.0925 *

Venus 54990-06-04 09:07 G 21805899.78 21805899.88 21805899.97 0.3685 0.0844

Jupiter 54991-08-16 06:58 G 21806337.67 21806337.79 21806337.91 0.0527 0.0152

Jupiter 54991-11-13 12:29 G 21806426.99 21806427.02 21806427.06 0.0524 0.0497

Mars 54992-10-27 05:02 G 21806775.64 21806775.71 21806775.79 0.1749 0.1304

Mars 54993-08-22 18:58 G 21807075.13 21807075.29 21807075.45 0.1785 0.0075

Venus 54995-12-19 00:00 G 21807923.41 21807923.50 21807923.59 0.3684 0.1525

Jupiter 54997-12-29 09:07 G 21808664.73 21808664.88 21808665.03 0.0502 0.0288

Earth 54999-02-01 17:17 G 21809064.11 21809064.22 21809064.32 0.2669 0.0706

Moon 54999-02-01 17:46 G 21809064.14 21809064.24 21809064.35 0.2673 0.0745 *

56TH MILLENNIUM CE

This is a list of transits of Mercury in the 56th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	**55001-04-04 02:38**	**G**	**21809855.50**	**21809855.61**	**21809855.73**	**0.0296**	**0.0138**	
Saturn	**55001-07-01 15:07**	**G**	**21809944.00**	**21809944.13**	**21809944.26**	**0.0296**	**0.0040**	
Saturn	**55001-09-28 03:36**	**G**	**21810032.56**	**21810032.65**	**21810032.74**	**0.0297**	**0.0214**	
Mars	**55002-03-20 14:53**	**G**	**21810206.00**	**21810206.12**	**21810206.24**	**0.1742**	**0.0280**	
Jupiter	**55003-06-05 11:17**	**G**	**21810647.87**	**21810647.97**	**21810648.07**	**0.0527**	**0.0314**	
Jupiter	**55003-09-02 17:02**	**G**	**21810737.12**	**21810737.21**	**21810737.31**	**0.0525**	**0.0343**	
Jupiter	**55009-10-18 05:02**	**G**	**21812974.53**	**21812974.71**	**21812974.89**	**0.0501**	**0.0058**	
Mars	**55011-08-11 00:29**	**G**	**21813636.41**	**21813636.52**	**21813636.63**	**0.1736**	**0.0757**	
Earth	**55012-02-05 10:48**	**G**	**21813814.88**	**21813814.95**	**21813815.03**	**0.2668**	**0.1877**	
Moon	**55012-02-05 11:31**	**G**	**21813814.91**	**21813814.98**	**21813815.06**	**0.2668**	**0.1955**	*****
Jupiter	**55015-03-24 15:36**	**G**	**21814958.10**	**21814958.15**	**21814958.20**	**0.0529**	**0.0476**	
Jupiter	**55015-06-21 21:50**	**G**	**21815047.29**	**21815047.41**	**21815047.53**	**0.0526**	**0.0189**	
Saturn	**55015-07-27 23:31**	**G**	**21815083.33**	**21815083.48**	**21815083.65**	**0.0265**	**0.0133**	
Saturn	**55015-10-24 19:55**	**G**	**21815172.15**	**21815172.33**	**21815172.52**	**0.0265**	**0.0047**	
Saturn	**55016-01-21 16:19**	**G**	**21815261.10**	**21815261.18**	**21815261.28**	**0.0264**	**0.0228**	
Uranus	**55017-04-06 15:22**	**G**	**21815702.04**	**21815702.14**	**21815702.26**	**0.0140**	**0.0113**	
Uranus	**55017-07-03 23:17**	**G**	**21815790.32**	**21815790.47**	**21815790.63**	**0.0140**	**0.0082**	
Uranus	**55017-09-30 07:12**	**G**	**21815878.63**	**21815878.80**	**21815878.98**	**0.0140**	**0.0052**	
Uranus	**55017-12-27 15:07**	**G**	**21815966.94**	**21815967.13**	**21815967.33**	**0.0140**	**0.0021**	
Uranus	**55018-03-25 23:02**	**G**	**21816055.27**	**21816055.46**	**21816055.66**	**0.0139**	**0.0010**	
Uranus	**55018-06-22 06:58**	**G**	**21816143.61**	**21816143.79**	**21816143.98**	**0.0139**	**0.0040**	
Uranus	**55018-09-18 14:53**	**G**	**21816231.96**	**21816232.12**	**21816232.29**	**0.0139**	**0.0071**	

Uranus 55018-12-15 22:48 G 21816320.32 21816320.45 21816320.59 0.0139 0.0101

Moon 55019-01-29 10:19 G 21816364.83 21816364.93 21816365.02 0.2677 0.1446

Earth 55019-01-29 10:34 G 21816364.85 21816364.94 21816365.03 0.2671 0.1460 *

Uranus 55019-03-14 06:29 G 21816408.73 21816408.77 21816408.85 0.0139 0.0132

Moon 55021-08-03 17:02 G 21817282.08 21817282.21 21817282.35 0.2665 0.1244

Earth 55021-08-03 18:29 G 21817282.13 21817282.27 21817282.41 0.2661 0.1125 *

Jupiter 55021-08-06 02:38 G 21817284.44 21817284.61 21817284.79 0.0500 0.0146

Jupiter 55027-04-10 02:24 G 21819357.47 21819357.60 21819357.73 0.0526 0.0033

Saturn 55030-08-22 03:07 G 21820587.54 21820587.63 21820587.72 0.0295 0.0208

Saturn 55030-11-18 15:36 G 21820676.02 21820676.15 21820676.28 0.0296 0.0032

Saturn 55031-02-15 04:05 G 21820764.56 21820764.67 21820764.78 0.0296 0.0144

Earth 55032-02-01 04:19 G 21821115.57 21821115.68 21821115.79 0.2670 0.0254

Moon 55032-02-01 04:34 G 21821115.58 21821115.69 21821115.80 0.2677 0.0303 *

Mars 55032-04-28 05:02 G 21821202.65 21821202.71 21821202.78 0.1749 0.1459

Mars 55033-02-21 19:41 G 21821502.16 21821502.32 21821502.47 0.1785 0.0163

Jupiter 55033-05-25 00:43 G 21821594.39 21821594.53 21821594.66 0.0500 0.0345

Moon 55034-08-07 01:12 G 21822033.41 21822033.55 21822033.68 0.2670 0.1352

Earth 55034-08-07 01:26 G 21822033.43 21822033.56 21822033.70 0.2663 0.1378 *

Jupiter 55039-01-27 06:43 G 21823667.65 21823667.78 21823667.90 0.0527 0.0129

Jupiter 55039-04-26 12:14 G 21823757.00 21823757.01 21823757.03 0.0524 0.0519

Venus 55041-06-26 15:07 G 21824549.06 21824549.13 21824549.21 0.3685 0.2337

Mars 55041-09-18 14:53 G 21824633.00 21824633.12 21824633.23 0.1742 0.0423

Mars 55042-07-14 18:43 G 21824932.23 21824932.28 21824932.34 0.1793 0.1672

Saturn 55044-12-13 20:38 G 21825815.25 21825815.36 21825815.48 0.0265 0.0204

Earth 55045-02-02 22:05 G 21825866.32 21825866.42 21825866.52 0.2669 0.0930

Moon 55045-02-02 22:48 G 21825866.35 21825866.45 21825866.55 0.2672 0.1069 *

Saturn 55045-03-12 17:02 G 21825904.03 21825904.21 21825904.40 0.0265 0.0025

Saturn 55045-06-09 13:26 G 21825992.91 21825993.06 21825993.22 0.0264 0.0156

Jupiter 55045-06-11 07:55 G 21825994.68 21825994.83 21825994.98 0.0502 0.0300

Venus 55047-01-10 06:14 G 21826572.66 21826572.76 21826572.86 0.3684 0.0104

Jupiter 55050-11-15 10:19 G 21827977.83 21827977.93 21827978.04 0.0527 0.0302

Mars 55051-02-09 00:29 G 21828063.41 21828063.52 21828063.64 0.1736 0.0602

Jupiter 55051-02-12 16:19 G 21828067.09 21828067.18 21828067.27 0.0524 0.0354

Moon 55052-01-27 20:53 G 21828416.33 21828416.37 21828416.40 0.2675 0.2496

Earth 55052-01-27 21:22 G 21828416.35 21828416.39 21828416.44 0.2672 0.2448 *

Venus 55052-07-25 21:22 G 21828596.31 21828596.39 21828596.47 0.3684 0.2395

Jupiter 55057-03-30 05:17 G 21830304.54 21830304.72 21830304.90 0.0501 0.0091

Earth 55058-02-05 15:36 G 21830617.09 21830617.15 21830617.22 0.2668 0.2094

Moon 55058-02-05 16:19 G 21830617.12 21830617.18 21830617.24 0.2667 0.2161 *

Saturn 55060-01-09 04:34 G 21831319.64 21831319.69 21831319.75 0.0295 0.0265

Saturn 55060-04-06 17:17 G 21831408.10 21831408.22 21831408.35 0.0296 0.0087

Mars 55060-07-01 10:05 G 21831493.88 21831493.92 21831493.96 0.1730 0.1625

Saturn 55060-07-04 05:46 G 21831496.62 21831496.74 21831496.87 0.0296 0.0089

Uranus 55060-09-30 15:22 G 21831585.09 21831585.14 21831585.21 0.0138 0.0122

Saturn 55060-09-30 18:00 G 21831585.20 21831585.25 21831585.31 0.0296 0.0264 *

Uranus 55060-12-27 18:58 G 21831673.20 21831673.29 21831673.38 0.0138 0.0101

Uranus 55061-03-25 22:05 G 21831761.32 21831761.42 21831761.53 0.0138 0.0081

Uranus 55061-06-22 01:26 G 21831849.45 21831849.56 21831849.68 0.0138 0.0061

Uranus 55061-09-18 04:48 G 21831937.57 21831937.70 21831937.83 0.0138 0.0040

Neptune 55061-10-25 22:19 G 21831975.40 21831975.43 21831975.49 0.0088 0.0085

Uranus 55061-12-15 07:55 G 21832025.71 21832025.83 21832025.97 0.0139 0.0021

Neptune 55062-01-22 01:41 G 21832063.49 21832063.57 21832063.69 0.0088 0.0075

Uranus 55062-03-13 11:17 G 21832113.84 21832113.97 21832114.10 0.0139 0.0003

Neptune 55062-04-20 05:17 G 21832151.60 21832151.72 21832151.87 0.0088 0.0064

Uranus 55062-06-09 14:38 G 21832201.98 21832202.11 21832202.24 0.0139 0.0021

Neptune 55062-07-17 08:53 G 21832239.72 21832239.87 21832240.03 0.0088 0.0052

Jupiter 55062-09-03 14:24 G 21832288.05 21832288.10 21832288.16 0.0528 0.0467

Uranus 55062-09-05 17:46 G 21832290.12 21832290.24 21832290.37 0.0139 0.0041

Neptune 55062-10-13 12:14 G 21832327.85 21832328.01 21832328.19 0.0088 0.0042

Jupiter 55062-12-01 20:38 G 21832377.25 21832377.36 21832377.48 0.0525 0.0197

Uranus 55062-12-02 20:53 G 21832378.26 21832378.37 21832378.50 0.0139 0.0062

Neptune 55063-01-09 15:50 G 21832415.99 21832416.16 21832416.35 0.0088 0.0031

Uranus 55063-03-01 00:14 G 21832466.41 21832466.51 21832466.62 0.0139 0.0082

Neptune 55063-04-07 19:26 G 21832504.13 21832504.31 21832504.50 0.0088 0.0019

Uranus 55063-05-28 03:36 G 21832554.56 21832554.65 21832554.74 0.0139 0.0102

Neptune 55063-07-04 23:02 G 21832592.27 21832592.46 21832592.66 0.0088 0.0008

Uranus 55063-08-24 06:43 G 21832642.73 21832642.78 21832642.85 0.0139 0.0123

Neptune 55063-10-01 02:38 G 21832680.41 21832680.61 21832680.80 0.0088 0.0003

Neptune 55063-12-28 06:00 G 21832768.56 21832768.75 21832768.95 0.0088 0.0014

Neptune 55064-03-25 09:36 G 21832856.72 21832856.90 21832857.09 0.0088 0.0026

Neptune 55064-06-21 13:12 G 21832944.88 21832945.05 21832945.23 0.0088 0.0037

Neptune 55064-09-17 16:19 G 21833033.04 21833033.18 21833033.36 0.0088 0.0049

Neptune 55064-12-14 19:55 G 21833121.21 21833121.33 21833121.49 0.0088 0.0060

Moon 55065-01-29 15:07 G 21833167.04 21833167.13 21833167.23 0.2678 0.1309

Earth 55065-01-29 15:22 G 21833167.04 21833167.14 21833167.24 0.2671 0.1226 *

Neptune 55065-03-12 23:46 G 21833209.38 21833209.49 21833209.61 0.0088 0.0071

Neptune 55065-06-09 03:36 G 21833297.58 21833297.65 21833297.72 0.0088 0.0082

Venus 55066-05-28 08:24 G 21833650.70 21833650.85 21833651.00 0.3686 0.1159

Moon 55067-08-05 00:00 G 21834084.36 21834084.50 21834084.65 0.2666 0.0877

Earth 55067-08-05 01:12 G 21834084.40 21834084.55 21834084.70 0.2661 0.0679 *

Jupiter 55069-01-16 01:26 G 21834614.38 21834614.56 21834614.74 0.0500 0.0134

Mars 55071-10-28 05:02 G 21835629.66 21835629.71 21835629.76 0.1749 0.1587

Mars 55072-08-22 20:10 G 21835929.19 21835929.34 21835929.50 0.1786 0.0397

Saturn 55074-05-02 20:53 G 21836547.31 21836547.37 21836547.44 0.0265 0.0248

Saturn 55074-07-30 17:02 G 21836636.03 21836636.21 21836636.39 0.0265 0.0069

Jupiter 55074-09-20 01:12 G 21836687.42 21836687.55 21836687.68 0.0527 0.0040

Saturn 55074-10-27 13:26 G 21836724.89 21836725.06 21836725.23 0.0265 0.0111

Earth 55078-02-01 09:07 G 21837917.77 21837917.88 21837917.99 0.2670 0.0059

Moon 55078-02-01 09:22 G 21837917.78 21837917.89 21837918.00 0.2676 0.0107 *

Moon 55080-08-07 07:41 G 21838835.71 21838835.82 21838835.94 0.2670 0.1808

Earth 55080-08-07 08:10 G 21838835.72 21838835.84 21838835.95 0.2663 0.1827 *

Jupiter 55080-11-03 23:02 G 21838924.33 21838924.46 21838924.60 0.0499 0.0336

Mars 55081-03-19 14:53 G 21839060.01 21839060.12 21839060.23 0.1743 0.0571

Mars 55082-01-12 19:26 G 21839359.22 21839359.31 21839359.40 0.1793 0.1436

Pluto 55085-04-21 20:38 G 21840554.33 21840554.36 21840554.40 0.0067 0.0065

Pluto 55085-07-18 20:53 G 21840642.31 21840642.37 21840642.47 0.0067 0.0055

Pluto 55085-10-14 21:36 G 21840730.31 21840730.40 21840730.52 0.0067 0.0044

Pluto 55086-01-10 22:19 G 21840818.32 21840818.43 21840818.56 0.0067 0.0033

Pluto 55086-04-08 23:02 G 21840906.33 21840906.46 21840906.60 0.0068 0.0021

Pluto 55086-07-05 23:46 G 21840994.35 21840994.49 21840994.63 0.0068 0.0010

Jupiter 55086-07-09 05:46 G 21840997.61 21840997.74 21840997.86 0.0527 0.0119

Pluto 55086-10-02 00:29 G 21841082.38 21841082.52 21841082.65 0.0068 0.0002

Pluto 55086-12-29 00:58 G 21841170.40 21841170.54 21841170.68 0.0068 0.0011

Pluto 55087-03-27 01:26 G 21841258.44 21841258.56 21841258.70 0.0068 0.0023

Pluto 55087-06-23 01:55 G 21841346.47 21841346.58 21841346.71 0.0068 0.0034

Pluto 55087-09-19 02:24 G 21841434.51 21841434.60 21841434.72 0.0068 0.0046

Pluto 55087-12-16 03:07 G 21841522.57 21841522.63 21841522.72 0.0068 0.0056

Pluto 55088-03-13 03:50 G 21841610.65 21841610.66 21841610.69 0.0068 0.0067

Saturn 55089-08-24 18:00 G 21842140.14 21842140.25 21842140.37 0.0295 0.0153

Saturn 55089-11-21 06:43 G 21842228.65 21842228.78 21842228.91 0.0296 0.0024

Saturn 55090-02-17 18:58 G 21842317.20 21842317.29 21842317.39 0.0296 0.0197

Mars 55090-08-10 00:29 G 21842490.41 21842490.52 21842490.64 0.1736 0.0454

Earth 55091-02-04 02:53 G 21842668.52 21842668.62 21842668.72 0.2669 0.1153

Moon 55091-02-04 03:36 G 21842668.55 21842668.65 21842668.75 0.2672 0.1180 *

Jupiter 55092-11-21 06:14 G 21843324.61 21843324.76 21843324.90 0.0502 0.0305

Moon 55098-01-28 01:41 G 21845218.52 21845218.57 21845218.62 0.2676 0.2306

Earth 55098-01-28 02:24 G 21845218.54 21845218.60 21845218.66 0.2672 0.2218 *

Venus 55098-01-31 12:29 G 21845221.93 21845222.02 21845222.11 0.3684 0.1447

Jupiter 55098-04-27 09:50 G 21845307.81 21845307.91 21845308.02 0.0527 0.0281

Jupiter 55098-07-25 15:50 G 21845397.07 21845397.16 21845397.25 0.0525 0.0375

Mars 55099-12-31 10:19 G 21845920.87 21845920.93 21845920.99 0.1730 0.1474

Uranus 55101-01-29 14:24 G 21846315.07 21846315.10 21846315.16 0.0140 0.0136

Uranus 55101-04-27 22:19 G 21846403.32 21846403.43 21846403.56 0.0140 0.0106

Uranus 55101-07-25 06:29 G 21846491.61 21846491.77 21846491.93 0.0140 0.0075

Uranus 55101-10-21 14:10 G 21846579.91 21846580.09 21846580.28 0.0140 0.0045

Uranus 55102-01-17 22:05 G 21846668.23 21846668.42 21846668.62 0.0140 0.0015

Uranus 55102-04-16 06:14 G 21846756.56 21846756.76 21846756.95 0.0139 0.0017

Uranus 55102-07-13 13:55 G 21846844.90 21846845.08 21846845.27 0.0139 0.0047

Uranus 55102-10-09 21:36 G 21846933.26 21846933.40 21846933.58 0.0139 0.0079

Uranus 55103-01-06 05:46 G 21847021.63 21847021.74 21847021.87 0.0139 0.0109

Uranus 55103-04-04 13:55 G 21847110.08 21847110.08 21847110.08 0.0139 0.0139

Venus 55103-08-18 03:36 G 21847245.55 21847245.65 21847245.75 0.3684 0.0920

Saturn 55103-12-18 13:55 G 21847367.93 21847368.08 21847368.24 0.0265 0.0141

Earth 55104-02-07 20:24 G 21847419.30 21847419.35 21847419.40 0.2668 0.2316

Moon 55104-02-07 21:07 G 21847419.33 21847419.38 21847419.42 0.2665 0.2423 *

Saturn 55104-03-16 10:34 G 21847456.75 21847456.94 21847457.12 0.0265 0.0039

Saturn 55104-06-13 06:58 G 21847545.69 21847545.79 21847545.89 0.0264 0.0220

Jupiter 55104-09-10 03:50 G 21847634.48 21847634.66 21847634.84 0.0501 0.0102

Venus 55109-03-02 18:43 G 21849269.23 21849269.28 21849269.32 0.3684 0.3275

Jupiter 55110-02-14 13:41 G 21849618.01 21849618.07 21849618.13 0.0528 0.0454

Jupiter 55110-05-14 19:55 G 21849707.21 21849707.33 21849707.44 0.0525 0.0210

Moon 55111-01-31 20:10 G 21849969.23 21849969.34 21849969.44 0.2678 0.0986

Earth 55111-01-31 20:10 G 21849969.24 21849969.34 21849969.44 0.2671 0.1000 *

Mars 55111-04-29 05:02 G 21850056.71 21850056.71 21850056.72 0.1749 0.1741

Mars 55112-02-22 20:38 G 21850356.21 21850356.36 21850356.51 0.1785 0.0613

Moon 55113-08-06 06:43 G 21850886.63 21850886.78 21850886.93 0.2668 0.0244

Earth 55113-08-06 07:41 G 21850886.66 21850886.82 21850886.98 0.2662 0.0242 *

Jupiter 55116-06-29 01:26 G 21851944.38 21851944.56 21851944.74 0.0500 0.0105

Saturn 55119-01-12 19:41 G 21852872.23 21852872.32 21852872.41 0.0295 0.0210

Saturn 55119-04-11 08:10 G 21852960.71 21852960.84 21852960.97 0.0296 0.0034

Saturn 55119-07-08 20:38 G 21853049.24 21853049.36 21853049.47 0.0296 0.0141

Mars 55120-09-18 14:53 G 21853487.01 21853487.12 21853487.23 0.1742 0.0715

Mars 55121-07-14 19:41 G 21853786.21 21853786.32 21853786.44 0.1793 0.1229

Jupiter 55122-03-03 00:14 G 21854017.38 21854017.51 21854017.63 0.0526 0.0051

Venus 55123-01-03 11:02 G 21854323.82 21854323.96 21854324.10 0.3686 0.1836

Earth 55124-02-03 13:55 G 21854719.97 21854720.08 21854720.19 0.2670 0.0222

Moon 55124-02-03 14:24 G 21854719.99 21854720.10 21854720.21 0.2675 0.0214 *

Moon 55126-08-09 14:38 G 21855638.03 21855638.11 21855638.19 0.2670 0.2244

Earth 55126-08-09 14:53 G 21855638.04 21855638.12 21855638.20 0.2663 0.2287 *

Jupiter 55128-04-16 21:50 G 21856254.28 21856254.41 21856254.55 0.0499 0.0324

Mars 55130-02-09 00:29 G 21856917.40 21856917.52 21856917.64 0.1736 0.0314

Saturn 55133-05-06 14:10 G 21858099.96 21858100.09 21858100.23 0.0266 0.0184

Saturn 55133-08-03 10:34 G 21858188.76 21858188.94 21858189.13 0.0265 0.0006

Saturn 55133-10-31 06:58 G 21858277.66 21858277.79 21858277.94 0.0265 0.0177

Jupiter 55133-12-20 04:34 G 21858327.56 21858327.69 21858327.81 0.0527 0.0115

Earth 55137-02-05 07:41 G 21859470.73 21859470.82 21859470.91 0.2669 0.1376

Moon 55137-02-05 08:24 G 21859470.76 21859470.85 21859470.94 0.2671 0.1525 *

Mars 55139-07-02 10:19 G 21860347.85 21860347.93 21860348.00 0.1730 0.1324

Jupiter 55140-05-04 04:34 G 21860654.55 21860654.69 21860654.84 0.0501 0.0313

Neptune 55142-05-25 20:24 G 21861406.32 21861406.35 21861406.41 0.0089 0.0083

Neptune 55142-08-21 21:50 G 21861494.35 21861494.41 21861494.49 0.0089 0.0075

Neptune 55142-11-17 23:17 G 21861582.39 21861582.47 21861582.56 0.0089 0.0067

Neptune 55143-02-14 00:43 G 21861670.43 21861670.53 21861670.63 0.0089 0.0059

Neptune 55143-05-13 01:55 G 21861758.48 21861758.58 21861758.70 0.0089 0.0052

Neptune 55143-08-09 03:22 G 21861846.53 21861846.64 21861846.76 0.0089 0.0043

Neptune 55143-11-05 04:48 G 21861934.58 21861934.70 21861934.82 0.0089 0.0035

Moon 55144-01-30 06:43 G 21862020.71 21862020.78 21862020.85 0.2677 0.2060

Earth 55144-01-30 07:12 G 21862020.72 21862020.80 21862020.87 0.2672 0.1981 *

Neptune 55144-02-01 06:00 G 21862022.63 21862022.75 21862022.88 0.0089 0.0028

Neptune 55144-04-29 07:26 G 21862110.68 21862110.81 21862110.94 0.0089 0.0020

Uranus 55144-07-25 19:41 G 21862198.31 21862198.32 21862198.36 0.0138 0.0135

Neptune 55144-07-26 08:53 G 21862198.74 21862198.87 21862199.00 0.0089 0.0012

Uranus 55144-10-21 23:17 G 21862286.40 21862286.47 21862286.54 0.0138 0.0115

Neptune 55144-10-22 10:05 G 21862286.79 21862286.92 21862287.06 0.0089 0.0004

Uranus 55145-01-18 02:24 G 21862374.51 21862374.60 21862374.70 0.0138 0.0094

Neptune 55145-01-18 11:31 G 21862374.85 21862374.98 21862375.11 0.0089 0.0004

Uranus 55145-04-16 05:46 G 21862462.63 21862462.74 21862462.86 0.0138 0.0074

Neptune 55145-04-16 12:43 G 21862462.90 21862463.03 21862463.17 0.0089 0.0012

Uranus 55145-07-13 09:07 G 21862550.76 21862550.88 21862551.00 0.0138 0.0054

Neptune 55145-07-13 14:10 G 21862550.96 21862551.09 21862551.22 0.0089 0.0020 *

Jupiter 55145-10-08 08:53 G 21862637.76 21862637.87 21862637.98 0.0528 0.0273

Uranus 55145-10-09 12:29 G 21862638.89 21862639.02 21862639.15 0.0138 0.0033

Neptune 55145-10-09 15:22 G 21862639.02 21862639.14 21862639.27 0.0089 0.0028 *

Uranus 55146-01-05 15:36 G 21862727.02 21862727.15 21862727.29 0.0139 0.0013

Jupiter 55146-01-05 14:53 G 21862727.03 21862727.12 21862727.20 0.0525 0.0384 *

Neptune 55146-01-05 16:48 G 21862727.08 21862727.20 21862727.32 0.0089 0.0035 *

Neptune 55146-04-03 18:00 G 21862815.14 21862815.25 21862815.37 0.0089 0.0043

Uranus 55146-04-03 18:58 G 21862815.16 21862815.29 21862815.42 0.0139 0.0008 *

Neptune 55146-06-30 19:26 G 21862903.21 21862903.31 21862903.42 0.0089 0.0051

Uranus 55146-06-30 22:19 G 21862903.30 21862903.43 21862903.56 0.0139 0.0028 *

Moon 55146-08-04 06:14 G 21862937.68 21862937.76 21862937.83 0.2662 0.2309

Earth 55146-08-04 07:41 G 21862937.74 21862937.82 21862937.90 0.2660 0.2238 *

Neptune 55146-09-26 20:38 G 21862991.27 21862991.36 21862991.47 0.0089 0.0059

Uranus 55146-09-27 01:26 G 21862991.44 21862991.56 21862991.69 0.0139 0.0049 *

Neptune 55146-12-23 21:50 G 21863079.34 21863079.41 21863079.51 0.0089 0.0067

Uranus 55146-12-24 04:34 G 21863079.59 21863079.69 21863079.81 0.0139 0.0069

Neptune 55147-03-21 23:17 G 21863167.41 21863167.47 21863167.55 0.0089 0.0074

Uranus 55147-03-22 07:55 G 21863167.73 21863167.83 21863167.93 0.0139 0.0089

Neptune 55147-06-18 00:29 G 21863255.48 21863255.52 21863255.58 0.0089 0.0082

Uranus 55147-06-18 11:02 G 21863255.89 21863255.96 21863256.05 0.0139 0.0110

Uranus 55147-09-14 14:24 G 21863344.06 21863344.10 21863344.15 0.0139 0.0130

Saturn 55148-05-31 20:53 G 21863604.32 21863604.37 21863604.42 0.0295 0.0270

Saturn 55148-08-28 09:22 G 21863692.77 21863692.89 21863693.02 0.0295 0.0094

Saturn 55148-11-24 21:50 G 21863781.28 21863781.41 21863781.53 0.0295 0.0080

Saturn 55149-02-21 10:05 G 21863869.86 21863869.92 21863869.99 0.0296 0.0254

Venus 55149-02-22 18:43 G 21863871.22 21863871.28 21863871.34 0.3685 0.2950

Earth 55150-02-08 01:12 G 21864221.52 21864221.55 21864221.58 0.2668 0.2535

Moon 55150-02-08 01:55 G 21864221.55 21864221.58 21864221.60 0.2663 0.2543 *

Mars 55151-08-23 21:07 G 21864783.24 21864783.38 21864783.52 0.1785 0.0839

Jupiter 55152-02-21 02:10 G 21864964.41 21864964.59 21864964.77 0.0501 0.0106

Venus 55154-09-08 09:50 G 21865894.81 21865894.91 21865895.01 0.3684 0.0566

Moon 55157-02-01 00:58 G 21866771.44 21866771.54 21866771.64 0.2678 0.0809

Earth 55157-02-01 00:58 G 21866771.44 21866771.54 21866771.65 0.2671 0.0773 *

Jupiter 55157-07-27 13:12 G 21866947.97 21866948.05 21866948.12 0.0528 0.0437

Jupiter 55157-10-24 19:12 G 21867037.19 21867037.30 21867037.42 0.0525 0.0227

Moon 55159-08-07 13:26 G 21867688.91 21867689.06 21867689.22 0.2668 0.0007

Earth 55159-08-07 14:24 G 21867688.94 21867689.10 21867689.25 0.2662 0.0221 *

Mars 55160-03-19 14:53 G 21867914.02 21867914.12 21867914.22 0.1743 0.0861

Venus 55160-03-24 00:58 G 21867918.45 21867918.54 21867918.62 0.3684 0.1800

Mars 55161-01-12 20:24 G 21868213.22 21868213.35 21868213.48 0.1793 0.0986

Saturn 55162-09-23 11:17 G 21868831.93 21868831.97 21868832.02 0.0265 0.0255

Saturn 55162-12-21 07:41 G 21868920.64 21868920.82 21868921.00 0.0265 0.0076

Saturn 55163-03-20 04:05 G 21869009.50 21869009.67 21869009.84 0.0265 0.0104

Jupiter 55163-12-10 00:00 G 21869274.32 21869274.50 21869274.68 0.0500 0.0096

Mars 55169-08-10 00:29 G 21871344.40 21871344.52 21871344.64 0.1736 0.0168

Jupiter 55169-08-12 23:17 G 21871347.34 21871347.47 21871347.59 0.0526 0.0061

Earth 55170-02-03 18:43 G 21871522.18 21871522.28 21871522.39 0.2670 0.0430

Moon 55170-02-03 19:26 G 21871522.20 21871522.31 21871522.41 0.2675 0.0543 *

Pluto 55172-02-10 06:58 G 21872258.74 21872258.79 21872258.85 0.0077 0.0073

Pluto 55172-05-08 09:07 G 21872346.76 21872346.88 21872347.03 0.0077 0.0052

Pluto 55172-08-04 11:31 G 21872434.82 21872434.98 21872435.15 0.0077 0.0031

Pluto 55172-10-31 13:55 G 21872522.90 21872523.08 21872523.26 0.0077 0.0010

Pluto 55173-01-27 16:05 G 21872610.99 21872611.17 21872611.35 0.0077 0.0011

Pluto 55173-04-25 18:14 G 21872699.10 21872699.26 21872699.43 0.0076 0.0032

Pluto 55173-07-22 20:10 G 21872787.23 21872787.34 21872787.49 0.0076 0.0054

Pluto 55173-10-18 22:19 G 21872875.41 21872875.43 21872875.49 0.0076 0.0075

Jupiter 55175-09-27 21:36 G 21873584.25 21873584.40 21873584.54 0.0500 0.0300

Saturn 55178-01-15 11:02 G 21874424.84 21874424.96 21874425.07 0.0295 0.0150

Saturn 55178-04-13 23:31 G 21874513.35 21874513.48 21874513.61 0.0296 0.0025

Saturn 55178-07-11 11:46 G 21874601.90 21874601.99 21874602.09 0.0296 0.0200

Mars 55178-12-31 10:19 G 21874774.84 21874774.93 21874775.01 0.1730 0.1180

Jupiter 55181-06-01 03:22 G 21875657.51 21875657.64 21875657.77 0.0527 0.0105

Earth 55183-02-06 12:29 G 21876272.93 21876273.02 21876273.11 0.2669 0.1599

Moon 55183-02-06 13:12 G 21876272.96 21876273.05 21876273.13 0.2669 0.1622 *

Uranus 55185-02-18 21:07 G 21877016.33 21877016.38 21877016.46 0.0140 0.0130

Uranus 55185-05-18 05:02 G 21877104.59 21877104.71 21877104.85 0.0140 0.0100

Uranus 55185-08-14 13:12 G 21877192.88 21877193.05 21877193.22 0.0140 0.0069

Uranus 55185-11-10 20:53 G 21877281.19 21877281.37 21877281.56 0.0140 0.0039

Uranus 55186-02-07 04:48 G 21877369.51 21877369.70 21877369.90 0.0139 0.0009

Uranus 55186-05-06 12:58 G 21877457.84 21877458.04 21877458.23 0.0139 0.0023

Uranus 55186-08-02 20:38 G 21877546.19 21877546.36 21877546.55 0.0139 0.0053

Uranus 55186-10-30 04:34 G 21877634.54 21877634.69 21877634.85 0.0139 0.0084

Uranus 55187-01-26 12:43 G 21877722.92 21877723.03 21877723.14 0.0139 0.0114

Jupiter 55187-10-15 03:07 G 21877984.50 21877984.63 21877984.78 0.0501 0.0323

Moon 55190-01-30 11:31 G 21878822.90 21878822.98 21878823.06 0.2678 0.1779

Earth 55190-01-30 12:00 G 21878822.92 21878823.00 21878823.08 0.2672 0.1751 *

Mars 55191-02-21 21:50 G 21879210.29 21879210.41 21879210.54 0.1785 0.1088

Saturn 55192-05-09 07:55 G 21879652.67 21879652.83 21879653.00 0.0266 0.0118

Moon 55192-08-04 12:58 G 21879739.94 21879740.04 21879740.14 0.2664 0.2022

Earth 55192-08-04 14:10 G 21879739.98 21879740.09 21879740.21 0.2661 0.1801 *

Saturn 55192-08-06 04:19 G 21879741.50 21879741.68 21879741.87 0.0265 0.0063

Saturn 55192-11-03 00:58 G 21879830.47 21879830.54 21879830.61 0.0265 0.0245

Jupiter 55193-03-20 07:26 G 21879967.70 21879967.81 21879967.92 0.0528 0.0272

Jupiter 55193-06-17 13:26 G 21880056.98 21880057.06 21880057.14 0.0525 0.0387

Jupiter 55199-08-03 00:29 G 21882294.35 21882294.52 21882294.70 0.0500 0.0114

Mars 55199-09-18 14:53 G 21882341.02 21882341.12 21882341.21 0.1743 0.1005

Mars 55200-07-13 20:53 G 21882640.23 21882640.37 21882640.52 0.1792 0.0764

Moon 55203-02-02 06:00 G 21883573.64 21883573.75 21883573.86 0.2677 0.0532

Earth 55203-02-02 06:00 G 21883573.64 21883573.75 21883573.85 0.2671 0.0553 *

Jupiter 55205-01-06 11:46 G 21884277.92 21884277.99 21884278.06 0.0529 0.0434

Jupiter 55205-04-05 18:00 G 21884367.13 21884367.25 21884367.36 0.0526 0.0231

Moon 55205-08-07 20:10 G 21884491.19 21884491.34 21884491.49 0.2668 0.0683

Earth 55205-08-07 20:53 G 21884491.22 21884491.37 21884491.53 0.2662 0.0662 *

Venus 55205-09-29 16:05 G 21884544.08 21884544.17 21884544.25 0.3685 0.2063

Saturn 55207-06-04 12:43 G 21885156.94 21885157.03 21885157.12 0.0294 0.0204

Saturn 55207-09-01 01:12 G 21885245.42 21885245.55 21885245.68 0.0295 0.0029

Saturn 55207-11-28 13:26 G 21885333.95 21885334.06 21885334.18 0.0295 0.0145

Mars 55209-02-08 00:43 G 21885771.41 21885771.53 21885771.65 0.1736 0.0058

Venus 55211-04-15 07:12 G 21886567.70 21886567.80 21886567.90 0.3684 0.0353

Jupiter 55211-05-21 22:05 G 21886604.24 21886604.42 21886604.60 0.0500 0.0095

Earth 55216-02-04 23:31 G 21888324.38 21888324.48 21888324.59 0.2670 0.0654

Moon 55216-02-05 00:14 G 21888324.40 21888324.51 21888324.61 0.2674 0.0685 *

Venus 55216-10-28 22:05 G 21888591.36 21888591.42 21888591.49 0.3684 0.2674

Jupiter 55217-01-22 22:19 G 21888677.30 21888677.43 21888677.56 0.0526 0.0073

Mars 55218-07-01 10:19 G 21889201.83 21889201.93 21889202.02 0.1730 0.1031

Saturn 55221-09-26 05:17 G 21890384.59 21890384.72 21890384.85 0.0266 0.0187

Saturn 55221-12-24 01:41 G 21890473.39 21890473.57 21890473.76 0.0265 0.0007

Saturn 55222-03-22 22:05 G 21890562.29 21890562.42 21890562.57 0.0265 0.0175

Jupiter 55223-03-09 19:41 G 21890914.18 21890914.32 21890914.47 0.0500 0.0295

Neptune 55226-07-23 20:24 G 21892146.30 21892146.35 21892146.45 0.0088 0.0081

Neptune 55226-10-20 00:00 G 21892234.40 21892234.50 21892234.63 0.0088 0.0070

Neptune 55227-01-16 03:22 G 21892322.52 21892322.64 21892322.80 0.0088 0.0060

Neptune 55227-04-14 06:58 G 21892410.64 21892410.79 21892410.97 0.0088 0.0048

Neptune 55227-07-11 10:34 G 21892498.78 21892498.94 21892499.13 0.0088 0.0037

Neptune 55227-10-07 14:10 G 21892586.91 21892587.09 21892587.28 0.0088 0.0026

Neptune 55228-01-03 17:46 G 21892675.05 21892675.24 21892675.43 0.0088 0.0015

Neptune 55228-03-31 21:22 G 21892763.20 21892763.39 21892763.58 0.0088 0.0004

Neptune 55228-06-28 00:58 G 21892851.34 21892851.54 21892851.73 0.0088 0.0008

Uranus 55228-08-15 03:22 G 21892899.60 21892899.64 21892899.69 0.0138 0.0128

Neptune 55228-09-24 04:05 G 21892939.49 21892939.67 21892939.87 0.0088 0.0020

Jupiter 55228-11-11 02:10 G 21892987.47 21892987.59 21892987.72 0.0527 0.0098

Uranus 55228-11-11 06:43 G 21892987.70 21892987.78 21892987.86 0.0138 0.0108 *

Neptune 55228-12-21 07:41 G 21893027.65 21893027.82 21893028.01 0.0088 0.0030

Earth 55229-02-06 17:17 G 21893075.14 21893075.22 21893075.30 0.2668 0.1815

Moon 55229-02-06 18:00 G 21893075.17 21893075.25 21893075.32 0.2667 0.1949 *

Uranus 55229-02-07 10:05 G 21893075.82 21893075.92 21893076.02 0.0138 0.0088

Neptune 55229-03-19 11:17 G 21893115.81 21893115.97 21893116.15 0.0088 0.0041

Uranus 55229-05-06 13:12 G 21893163.94 21893164.05 21893164.17 0.0138 0.0068

Neptune 55229-06-15 14:53 G 21893203.97 21893204.12 21893204.28 0.0088 0.0052

Uranus 55229-08-02 16:34 G 21893252.07 21893252.19 21893252.32 0.0138 0.0047

Neptune 55229-09-11 18:29 G 21893292.14 21893292.27 21893292.41 0.0088 0.0064

Uranus 55229-10-29 19:55 G 21893340.20 21893340.33 21893340.46 0.0139 0.0027

Neptune 55229-12-08 21:36 G 21893380.32 21893380.40 21893380.53 0.0088 0.0076

Uranus 55230-01-25 23:17 G 21893428.34 21893428.47 21893428.60 0.0139 0.0006

Neptune 55230-03-07 01:26 G 21893468.54 21893468.56 21893468.61 0.0088 0.0086

Uranus 55230-04-24 02:24 G 21893516.47 21893516.60 21893516.73 0.0139 0.0015

Uranus 55230-07-21 05:46 G 21893604.61 21893604.74 21893604.87 0.0139 0.0035

Mars 55230-08-22 22:19 G 21893637.32 21893637.43 21893637.54 0.1785 0.1296

Venus 55230-08-31 05:02 G 21893645.56 21893645.71 21893645.86 0.3686 0.1271

Uranus 55230-10-17 09:07 G 21893692.76 21893692.88 21893693.00 0.0139 0.0055

Uranus 55231-01-13 12:14 G 21893780.90 21893781.01 21893781.12 0.0139 0.0076

Uranus 55231-04-11 15:22 G 21893869.05 21893869.14 21893869.24 0.0139 0.0096

Uranus 55231-07-08 18:43 G 21893957.21 21893957.28 21893957.35 0.0139 0.0116

Uranus 55231-10-04 22:05 G 21894045.40 21894045.42 21894045.44 0.0139 0.0137

Jupiter 55234-12-26 17:31 G 21895224.21 21895224.23 21895224.25 0.0499 0.0495

Jupiter 55235-03-27 02:38 G 21895314.48 21895314.61 21895314.74 0.0502 0.0344

Moon 55236-01-31 16:34 G 21895625.10 21895625.19 21895625.27 0.2678 0.1617

Earth 55236-01-31 16:48 G 21895625.11 21895625.20 21895625.29 0.2672 0.1519 *

Saturn 55236-10-21 14:24 G 21895889.04 21895889.10 21895889.16 0.0295 0.0259

Saturn 55237-01-18 02:53 G 21895977.49 21895977.62 21895977.75 0.0295 0.0084

Saturn 55237-04-16 15:22 G 21896066.01 21896066.14 21896066.26 0.0296 0.0091

Saturn 55237-07-14 03:36 G 21896154.59 21896154.65 21896154.71 0.0296 0.0264

Moon 55238-08-05 19:26 G 21896542.19 21896542.31 21896542.44 0.2666 0.1458

Earth 55238-08-05 20:53 G 21896542.24 21896542.37 21896542.50 0.2661 0.1358 *

Mars 55239-03-19 14:53 G 21896768.03 21896768.12 21896768.21 0.1742 0.1152

Mars 55240-01-12 21:22 G 21897067.24 21897067.39 21897067.54 0.1793 0.0542

Jupiter 55240-08-30 06:14 G 21897297.65 21897297.76 21897297.87 0.0528 0.0265

Jupiter 55240-11-27 12:14 G 21897386.93 21897387.01 21897387.09 0.0525 0.0392

Jupiter 55247-01-12 23:02 G 21899624.28 21899624.46 21899624.64 0.0500 0.0121

Mars 55248-08-09 00:29 G 21900198.40 21900198.52 21900198.64 0.1736 0.0137

Earth 55249-02-02 10:48 G 21900375.84 21900375.95 21900376.06 0.2671 0.0328

Moon 55249-02-02 11:02 G 21900375.85 21900375.96 21900376.07 0.2677 0.0273 *

Saturn 55251-02-13 05:46 G 21901116.65 21901116.74 21901116.84 0.0266 0.0228

Saturn 55251-05-13 02:10 G 21901205.41 21901205.59 21901205.78 0.0266 0.0047

Moon 55251-08-09 03:07 G 21901293.49 21901293.63 21901293.77 0.2668 0.0968

Earth 55251-08-09 03:36 G 21901293.51 21901293.65 21901293.79 0.2662 0.1109 *

Saturn 55251-08-09 22:48 G 21901294.29 21901294.45 21901294.61 0.0266 0.0135

Jupiter 55252-06-18 10:05 G 21901607.85 21901607.92 21901607.99 0.0529 0.0438

Jupiter 55252-09-15 16:19 G 21901697.07 21901697.18 21901697.30 0.0526 0.0230

Venus 55256-10-20 22:05 G 21903193.40 21903193.42 21903193.44 0.3685 0.3571

Mars 55257-12-30 10:19 G 21903628.83 21903628.93 21903629.03 0.1730 0.0877

Jupiter 55258-10-31 20:24 G 21903934.17 21903934.35 21903934.53 0.0500 0.0088

Earth 55262-02-05 04:19 G 21905126.58 21905126.68 21905126.79 0.2669 0.0874

Moon 55262-02-05 05:02 G 21905126.61 21905126.71 21905126.81 0.2673 0.0962 *

Venus 55262-05-06 13:12 G 21905216.96 21905217.05 21905217.15 0.3684 0.1184

Jupiter 55264-07-04 20:53 G 21906007.24 21906007.37 21906007.49 0.0527 0.0072

Saturn 55266-06-07 05:02 G 21906709.60 21906709.71 21906709.83 0.0294 0.0130

Saturn 55266-09-03 17:31 G 21906798.10 21906798.23 21906798.36 0.0295 0.0044

Saturn 55266-12-01 05:46 G 21906886.66 21906886.74 21906886.83 0.0295 0.0217

Venus 55267-11-20 04:19 G 21907240.59 21907240.68 21907240.78 0.3684 0.1190

Moon 55269-01-29 03:07 G 21907676.62 21907676.63 21907676.64 0.2677 0.2656

Earth 55269-01-29 03:50 G 21907676.62 21907676.66 21907676.69 0.2673 0.2509 *

Uranus 55269-03-11 04:48 G 21907717.62 21907717.70 21907717.81 0.0140 0.0121

Uranus 55269-06-07 12:29 G 21907805.89 21907806.02 21907806.18 0.0140 0.0091

Uranus 55269-09-03 20:38 G 21907894.19 21907894.36 21907894.54 0.0140 0.0060

Uranus 55269-12-01 04:34 G 21907982.50 21907982.69 21907982.88 0.0140 0.0029

Mars 55270-02-20 22:48 G 21908064.37 21908064.45 21908064.53 0.1785 0.1527

Uranus 55270-02-27 12:29 G 21908070.83 21908071.02 21908071.22 0.0139 0.0002

Uranus 55270-05-26 20:24 G 21908159.16 21908159.35 21908159.54 0.0139 0.0032

Jupiter 55270-08-19 17:31 G 21908244.09 21908244.23 21908244.39 0.0499 0.0297

Uranus 55270-08-23 04:19 G 21908247.51 21908247.68 21908247.86 0.0139 0.0062

Uranus 55270-11-19 12:00 G 21908335.87 21908336.00 21908336.16 0.0139 0.0093

Uranus 55271-02-15 20:10 G 21908424.26 21908424.34 21908424.43 0.0139 0.0124

Venus 55273-06-04 19:26 G 21909264.29 21909264.31 21909264.33 0.3684 0.3546

Earth 55275-02-07 22:05 G 21909877.35 21909877.42 21909877.49 0.2668 0.2037

Moon 55275-02-07 22:48 G 21909877.38 21909877.45 21909877.52 0.2666 0.2077 *

Jupiter 55276-04-23 01:12 G 21910317.42 21910317.55 21910317.68 0.0527 0.0089

Mars 55278-09-17 14:53 G 21911195.04 21911195.12 21911195.20 0.1742 0.1295

Mars 55279-07-13 22:05 G 21911494.26 21911494.42 21911494.57 0.1793 0.0308

Saturn 55280-09-29 00:00 G 21911937.33 21911937.50 21911937.67 0.0266 0.0113

Saturn 55280-12-26 20:24 G 21912026.17 21912026.35 21912026.53 0.0265 0.0069

Saturn 55281-03-25 17:02 G 21912115.16 21912115.21 21912115.27 0.0265 0.0251

Moon 55282-01-31 21:22 G 21912427.30 21912427.39 21912427.49 0.2678 0.1280

Earth 55282-01-31 21:36 G 21912427.31 21912427.40 21912427.50 0.2672 0.1294 *

Jupiter 55282-06-07 15:22 G 21912554.13 21912554.14 21912554.17 0.0499 0.0495

Jupiter 55282-09-06 00:29 G 21912644.39 21912644.52 21912644.66 0.0501 0.0344

Moon 55284-08-06 02:10 G 21913344.45 21913344.59 21913344.73 0.2666 0.1094

Earth 55284-08-06 03:22 G 21913344.49 21913344.64 21913344.78 0.2661 0.0927 *

Venus 55287-04-07 07:41 G 21914318.68 21914318.82 21914318.96 0.3686 0.1757

Mars 55288-02-08 00:43 G 21914625.41 21914625.53 21914625.64 0.1736 0.0286

Jupiter 55288-02-10 05:02 G 21914627.60 21914627.71 21914627.82 0.0528 0.0261

Jupiter 55288-05-09 10:48 G 21914716.87 21914716.95 21914717.04 0.0525 0.0396

Jupiter 55294-06-24 21:50 G 21916954.23 21916954.41 21916954.59 0.0501 0.0134

Earth 55295-02-03 15:36 G 21917178.04 21917178.15 21917178.26 0.2671 0.0105

Moon 55295-02-03 15:50 G 21917178.05 21917178.16 21917178.27 0.2677 0.0091 *

Saturn 55295-10-25 06:58 G 21917441.69 21917441.79 21917441.89 0.0295 0.0183

Saturn 55296-01-21 19:26 G 21917530.18 21917530.31 21917530.44 0.0295 0.0009

Saturn 55296-04-19 07:41 G 21917618.72 21917618.82 21917618.93 0.0295 0.0166

Mars 55297-06-30 10:19 G 21918055.82 21918055.93 21918056.03 0.1730 0.0741

Moon 55297-08-09 10:05 G 21918095.80 21918095.92 21918096.04 0.2669 0.1629

Earth 55297-08-09 10:19 G 21918095.80 21918095.93 21918096.05 0.2662 0.1563 *

Jupiter 55299-11-29 08:53 G 21918937.80 21918937.87 21918937.94 0.0529 0.0432

Jupiter 55300-02-26 15:07 G 21919027.02 21919027.13 21919027.24 0.0526 0.0233

Jupiter 55306-04-13 18:43 G 21921264.10 21921264.28 21921264.46 0.0500 0.0083

Neptune 55306-11-24 18:43 G 21921489.27 21921489.28 21921489.30 0.0089 0.0088

Neptune 55307-02-20 20:10 G 21921577.29 21921577.34 21921577.40 0.0089 0.0080

Neptune 55307-05-19 21:22 G 21921665.32 21921665.39 21921665.47 0.0089 0.0073

Neptune 55307-08-15 22:48 G 21921753.36 21921753.45 21921753.55 0.0089 0.0065

Neptune 55307-11-12 00:14 G 21921841.41 21921841.51 21921841.61 0.0089 0.0057

Earth 55308-02-07 09:07 G 21921928.78 21921928.88 21921928.98 0.2669 0.1098

Moon 55308-02-07 09:50 G 21921928.81 21921928.91 21921929.01 0.2671 0.1183 *

Neptune 55308-02-08 01:26 G 21921929.46 21921929.56 21921929.68 0.0089 0.0049

Neptune 55308-05-06 02:53 G 21922017.51 21922017.62 21922017.74 0.0089 0.0041

Neptune 55308-08-02 04:05 G 21922105.56 21922105.67 21922105.80 0.0089 0.0033

Neptune 55308-10-29 05:31 G 21922193.61 21922193.73 21922193.86 0.0089 0.0025

Neptune 55309-01-25 06:58 G 21922281.66 21922281.79 21922281.92 0.0089 0.0017

Neptune 55309-04-23 08:24 G 21922369.72 21922369.85 21922369.98 0.0089 0.0009

Neptune 55309-07-20 09:36 G 21922457.77 21922457.90 21922458.04 0.0089 0.0003

Mars 55309-08-22 23:31 G 21922491.47 21922491.48 21922491.49 0.1785 0.1775

Neptune 55309-10-16 11:02 G 21922545.83 21922545.96 21922546.09 0.0089 0.0007

Neptune 55310-01-12 12:14 G 21922633.88 21922634.01 21922634.15 0.0089 0.0015

Saturn 55310-02-17 00:43 G 21922669.38 21922669.53 21922669.69 0.0266 0.0151

Neptune 55310-04-10 13:41 G 21922721.94 21922722.07 21922722.20 0.0089 0.0022

Saturn 55310-05-16 21:07 G 21922758.20 21922758.38 21922758.57 0.0266 0.0031

Neptune 55310-07-07 14:53 G 21922810.00 21922810.12 21922810.25 0.0089 0.0030

Saturn 55310-08-13 17:46 G 21922847.14 21922847.24 21922847.36 0.0266 0.0213

Neptune 55310-10-03 16:19 G 21922898.06 21922898.18 21922898.30 0.0089 0.0038

Neptune 55310-12-30 17:31 G 21922986.12 21922986.23 21922986.35 0.0089 0.0046

Neptune 55311-03-28 18:43 G 21923074.19 21923074.28 21923074.40 0.0089 0.0054

Neptune 55311-06-24 20:10 G 21923162.25 21923162.34 21923162.44 0.0089 0.0061

Neptune 55311-09-20 21:36 G 21923250.32 21923250.40 21923250.48 0.0089 0.0069

Jupiter 55311-12-16 18:58 G 21923337.17 21923337.29 21923337.42 0.0527 0.0066

Neptune 55311-12-17 22:48 G 21923338.39 21923338.45 21923338.52 0.0089 0.0077

Neptune 55312-03-15 00:00 G 21923426.47 21923426.50 21923426.55 0.0089 0.0085

Uranus 55312-09-05 10:48 G 21923600.90 21923600.95 21923601.02 0.0138 0.0122

Uranus 55312-12-02 13:55 G 21923689.01 21923689.08 21923689.18 0.0138 0.0103

Uranus 55313-02-28 17:31 G 21923777.13 21923777.23 21923777.34 0.0138 0.0081

Uranus 55313-05-27 20:38 G 21923865.25 21923865.36 21923865.49 0.0138 0.0062

Venus 55313-05-28 19:26 G 21923866.24 21923866.31 21923866.38 0.3685 0.2683

Uranus 55313-08-24 00:00 G 21923953.38 21923953.50 21923953.63 0.0139 0.0041

Uranus 55313-11-20 03:22 G 21924041.51 21924041.64 21924041.77 0.0139 0.0020

Uranus 55314-02-16 06:43 G 21924129.65 21924129.78 21924129.91 0.0139 0.0001

Uranus 55314-05-15 09:50 G 21924217.78 21924217.91 21924218.04 0.0139 0.0021

Uranus 55314-08-11 13:12 G 21924305.92 21924306.05 21924306.18 0.0139 0.0041

Uranus 55314-11-07 16:19 G 21924394.07 21924394.18 21924394.30 0.0139 0.0062

Moon 55315-01-31 07:55 G 21924478.78 21924478.83 21924478.89 0.2677 0.2295

Earth 55315-01-31 08:38 G 21924478.80 21924478.86 21924478.92 0.2673 0.2274 *

Uranus 55315-02-03 19:41 G 21924482.22 21924482.32 21924482.43 0.0139 0.0082

Uranus 55315-05-02 22:48 G 21924570.37 21924570.45 21924570.55 0.0139 0.0103

Uranus 55315-07-30 02:10 G 21924658.53 21924658.59 21924658.65 0.0139 0.0123

Jupiter 55318-01-30 15:50 G 21925574.02 21925574.16 21925574.31 0.0499 0.0291

Mars 55318-03-19 14:53 G 21925622.06 21925622.12 21925622.19 0.1743 0.1445

Venus 55318-12-12 10:34 G 21925889.84 21925889.94 21925890.04 0.3684 0.0308

Mars 55319-01-12 22:34 G 21925921.28 21925921.44 21925921.60 0.1792 0.0082

Earth 55321-02-09 02:53 G 21926679.56 21926679.62 21926679.68 0.2668 0.2255

Moon 55321-02-09 03:36 G 21926679.60 21926679.65 21926679.70 0.2665 0.2366 *

Jupiter 55323-10-04 23:17 G 21927647.35 21927647.47 21927647.60 0.0528 0.0097

Venus 55324-06-27 01:41 G 21927913.49 21927913.57 21927913.65 0.3684 0.2067

Saturn 55325-03-14 09:36 G 21928173.82 21928173.90 21928173.99 0.0294 0.0222

Saturn 55325-06-10 22:05 G 21928262.29 21928262.42 21928262.55 0.0294 0.0049

Saturn 55325-09-07 10:34 G 21928350.82 21928350.94 21928351.06 0.0295 0.0125

Mars 55327-08-10 00:43 G 21929052.41 21929052.53 21929052.64 0.1736 0.0429

Moon 55328-02-03 02:24 G 21929229.50 21929229.60 21929229.70 0.2678 0.1133

Earth 55328-02-03 02:38 G 21929229.51 21929229.61 21929229.71 0.2672 0.1059 *

Jupiter 55330-02-16 22:05 G 21929974.28 21929974.42 21929974.55 0.0501 0.0337

Moon 55330-08-08 08:53 G 21930146.72 21930146.87 21930147.02 0.2666 0.0608

Earth 55330-08-08 09:50 G 21930146.76 21930146.91 21930147.07 0.2661 0.0488 *

Pluto 55331-03-20 12:00 G 21930370.94 21930371.00 21930371.09 0.0067 0.0057

Pluto 55331-06-16 12:43 G 21930458.94 21930459.03 21930459.14 0.0067 0.0046

Pluto 55331-09-12 13:26 G 21930546.95 21930547.06 21930547.19 0.0067 0.0035

Pluto 55331-12-09 14:10 G 21930634.96 21930635.09 21930635.22 0.0067 0.0024

Pluto 55332-03-06 14:38 G 21930722.98 21930723.11 21930723.25 0.0068 0.0014

Pluto 55332-06-02 15:22 G 21930811.00 21930811.14 21930811.28 0.0068 0.0003

Pluto 55332-08-29 15:50 G 21930899.03 21930899.16 21930899.30 0.0068 0.0009

Pluto 55332-11-25 16:19 G 21930987.06 21930987.18 21930987.33 0.0068 0.0020

Pluto 55333-02-21 17:17 G 21931075.09 21931075.22 21931075.34 0.0068 0.0030

Pluto 55333-05-20 17:31 G 21931163.13 21931163.23 21931163.35 0.0068 0.0042

Pluto 55333-08-16 18:00 G 21931251.18 21931251.25 21931251.36 0.0068 0.0053

Pluto 55333-11-12 18:43 G 21931339.25 21931339.28 21931339.34 0.0068 0.0064

Jupiter 55335-07-24 03:36 G 21931957.54 21931957.65 21931957.76 0.0528 0.0258

Jupiter 55335-10-21 09:36 G 21932046.82 21932046.90 21932046.98 0.0525 0.0400

Mars 55336-12-30 10:19 G 21932482.82 21932482.93 21932483.04 0.1730 0.0587

Saturn 55339-07-06 23:17 G 21933401.36 21933401.47 21933401.58 0.0266 0.0211

Saturn 55339-10-03 19:26 G 21933490.13 21933490.31 21933490.50 0.0266 0.0032

Saturn 55339-12-31 15:50 G 21933579.02 21933579.16 21933579.32 0.0265 0.0152

Earth 55341-02-04 20:24 G 21933980.24 21933980.35 21933980.46 0.2670 0.0149

Moon 55341-02-04 20:38 G 21933980.25 21933980.36 21933980.47 0.2677 0.0235 *

Jupiter 55341-12-05 19:26 G 21934284.13 21934284.31 21934284.49 0.0501 0.0129

Earth 55343-08-11 16:48 G 21934898.10 21934898.20 21934898.30 0.2663 0.2011

Moon 55343-08-11 17:02 G 21934898.11 21934898.21 21934898.31 0.2670 0.1992 *

Mars 55346-05-22 19:55 G 21935913.29 21935913.33 21935913.38 0.1724 0.1593

Jupiter 55347-05-12 07:26 G 21936267.74 21936267.81 21936267.88 0.0529 0.0432

Jupiter 55347-08-09 13:41 G 21936356.95 21936357.07 21936357.18 0.0526 0.0234

Uranus 55353-04-01 12:00 G 21938418.90 21938419.00 21938419.13 0.0140 0.0113

Uranus 55353-06-28 20:10 G 21938507.19 21938507.34 21938507.50 0.0140 0.0082

Jupiter 55353-09-23 16:48 G 21938594.02 21938594.20 21938594.39 0.0500 0.0079

Uranus 55353-09-25 03:50 G 21938595.49 21938595.66 21938595.85 0.0140 0.0052

Uranus 55353-12-22 11:46 G 21938683.81 21938683.99 21938684.19 0.0139 0.0022

Earth 55354-02-07 14:10 G 21938730.99 21938731.09 21938731.18 0.2669 0.1321

Moon 55354-02-07 14:38 G 21938731.02 21938731.11 21938731.21 0.2670 0.1375 *

Uranus 55354-03-20 19:55 G 21938772.13 21938772.33 21938772.52 0.0139 0.0010

Uranus 55354-06-17 03:36 G 21938860.47 21938860.65 21938860.84 0.0139 0.0040

Saturn 55354-08-01 11:31 G 21938905.94 21938905.98 21938906.03 0.0294 0.0274

Uranus 55354-09-13 11:31 G 21938948.82 21938948.98 21938949.15 0.0139 0.0071

Saturn 55354-10-29 00:00 G 21938994.38 21938994.50 21938994.63 0.0295 0.0100

Uranus 55354-12-10 19:26 G 21939037.19 21939037.31 21939037.45 0.0139 0.0101

Saturn 55355-01-25 12:29 G 21939082.90 21939083.02 21939083.15 0.0295 0.0075

Uranus 55355-03-09 03:07 G 21939125.59 21939125.63 21939125.71 0.0139 0.0132

Saturn 55355-04-24 00:43 G 21939171.47 21939171.53 21939171.61 0.0295 0.0248

Mars 55357-09-17 14:53 G 21940049.07 21940049.12 21940049.17 0.1742 0.1583

Mars 55358-07-13 23:02 G 21940348.30 21940348.46 21940348.62 0.1793 0.0141

Jupiter 55359-05-28 17:46 G 21940667.11 21940667.24 21940667.36 0.0527 0.0069

Moon 55361-01-31 12:58 G 21941280.98 21941281.04 21941281.10 0.2677 0.2174

Earth 55361-01-31 13:26 G 21941280.99 21941281.06 21941281.13 0.2673 0.2041 *

Earth 55363-08-06 10:05 G 21942197.86 21942197.92 21942197.97 0.2660 0.2467

Jupiter 55365-07-12 13:55 G 21942903.94 21942904.08 21942904.23 0.0499 0.0290

Mars 55367-02-08 00:43 G 21943479.41 21943479.53 21943479.64 0.1736 0.0571

Earth 55367-02-10 07:41 G 21943481.78 21943481.82 21943481.86 0.2668 0.2475

Moon 55367-02-10 08:24 G 21943481.82 21943481.85 21943481.88 0.2665 0.2532 *

Mars 55367-12-03 22:34 G 21943778.39 21943778.44 21943778.50 0.1800 0.1663

Saturn 55368-11-23 00:00 G 21944133.45 21944133.50 21944133.58 0.0267 0.0249

Saturn 55369-02-19 20:24 G 21944222.18 21944222.35 21944222.54 0.0266 0.0068

Saturn 55369-05-19 17:02 G 21944311.04 21944311.21 21944311.38 0.0266 0.0115

Venus 55370-01-02 16:48 G 21944539.11 21944539.20 21944539.28 0.3684 0.1810

Jupiter 55371-03-16 21:22 G 21944977.27 21944977.39 21944977.52 0.0528 0.0107

Moon 55374-02-03 07:26 G 21946031.70 21946031.81 21946031.91 0.2678 0.0770

Earth 55374-02-03 07:26 G 21946031.70 21946031.81 21946031.91 0.2671 0.0831 *

Venus 55375-07-19 07:55 G 21946562.73 21946562.83 21946562.93 0.3684 0.0591

Mars 55376-06-30 10:19 G 21946909.82 21946909.93 21946910.05 0.1730 0.0437

Moon 55376-08-08 15:50 G 21946949.00 21946949.16 21946949.31 0.2667 0.0118

Earth 55376-08-08 16:34 G 21946949.03 21946949.19 21946949.35 0.2661 0.0040 *

Jupiter 55377-04-30 11:31 G 21947213.96 21947213.98 21947214.00 0.0498 0.0494

Jupiter 55377-07-29 20:10 G 21947304.20 21947304.34 21947304.47 0.0501 0.0339

Venus 55381-01-31 22:48 G 21948586.40 21948586.45 21948586.51 0.3684 0.2947

Jupiter 55383-01-03 01:41 G 21949287.46 21949287.57 21949287.68 0.0529 0.0271

Jupiter 55383-04-02 07:41 G 21949376.74 21949376.82 21949376.90 0.0526 0.0390

Saturn 55384-03-17 03:22 G 21949726.52 21949726.64 21949726.76 0.0294 0.0133

Saturn 55384-06-13 15:50 G 21949815.03 21949815.16 21949815.29 0.0294 0.0041

Saturn 55384-09-10 04:05 G 21949903.58 21949903.67 21949903.76 0.0295 0.0213

Mars 55385-11-20 19:55 G 21950340.27 21950340.33 21950340.40 0.1724 0.1447

Earth 55387-02-06 01:12 G 21950782.44 21950782.55 21950782.66 0.2670 0.0367

Moon 55387-02-06 01:41 G 21950782.46 21950782.57 21950782.68 0.2675 0.0370 *

Jupiter 55389-05-17 16:48 G 21951614.02 21951614.20 21951614.38 0.0500 0.0120

Earth 55389-08-11 23:31 G 21951700.43 21951700.48 21951700.54 0.2663 0.2467

Moon 55389-08-11 23:46 G 21951700.45 21951700.49 21951700.54 0.2670 0.2531 *

Neptune 55391-01-22 15:22 G 21952229.13 21952229.14 21952229.18 0.0088 0.0088

Neptune 55391-04-20 18:58 G 21952317.21 21952317.29 21952317.39 0.0088 0.0076

Neptune 55391-07-17 22:19 G 21952405.32 21952405.43 21952405.57 0.0088 0.0066

Neptune 55391-10-14 01:55 G 21952493.44 21952493.58 21952493.74 0.0088 0.0055

Neptune 55392-01-10 05:31 G 21952581.57 21952581.73 21952581.90 0.0088 0.0043

Neptune 55392-04-07 08:53 G 21952669.70 21952669.87 21952670.06 0.0088 0.0033

Neptune 55392-07-04 12:29 G 21952757.84 21952758.02 21952758.21 0.0088 0.0021

Neptune 55392-09-30 16:05 G 21952845.98 21952846.17 21952846.36 0.0088 0.0010

Neptune 55392-12-27 19:41 G 21952934.13 21952934.32 21952934.51 0.0088 0.0001

Neptune 55393-03-25 23:02 G 21953022.27 21953022.46 21953022.66 0.0088 0.0012

Neptune 55393-06-22 02:38 G 21953110.43 21953110.61 21953110.80 0.0088 0.0023

Neptune 55393-09-18 06:14 G 21953198.58 21953198.76 21953198.94 0.0088 0.0035

Neptune 55393-12-15 09:50 G 21953286.74 21953286.91 21953287.08 0.0088 0.0046

Neptune 55394-03-13 12:58 G 21953374.91 21953375.04 21953375.21 0.0088 0.0058

Neptune 55394-06-09 16:34 G 21953463.08 21953463.19 21953463.33 0.0088 0.0069

Neptune 55394-09-05 20:10 G 21953551.27 21953551.34 21953551.44 0.0088 0.0080

Jupiter 55394-10-22 05:46 G 21953597.67 21953597.74 21953597.82 0.0529 0.0434

Venus 55394-12-04 01:41 G 21953640.42 21953640.57 21953640.72 0.3686 0.1363

Jupiter 55395-01-19 12:14 G 21953686.89 21953687.01 21953687.12 0.0526 0.0233

Uranus 55396-06-29 14:38 G 21954214.11 21954214.11 21954214.14 0.0138 0.0138

Uranus 55396-09-25 18:14 G 21954302.19 21954302.26 21954302.33 0.0138 0.0117

Uranus 55396-12-22 21:22 G 21954390.30 21954390.39 21954390.49 0.0138 0.0097

Mars 55397-03-18 14:53 G 21954476.11 21954476.12 21954476.13 0.1743 0.1731

Uranus 55397-03-21 00:43 G 21954478.43 21954478.53 21954478.65 0.0138 0.0076

Uranus 55397-06-17 04:05 G 21954566.55 21954566.67 21954566.79 0.0138 0.0056

Uranus 55397-09-13 07:26 G 21954654.68 21954654.81 21954654.94 0.0139 0.0035

Uranus 55397-12-10 10:34 G 21954742.81 21954742.94 21954743.08 0.0139 0.0015

Mars 55398-01-11 23:46 G 21954775.33 21954775.49 21954775.64 0.1792 0.0383

Uranus 55398-03-08 13:55 G 21954830.95 21954831.08 21954831.21 0.0139 0.0006

Uranus 55398-06-04 17:17 G 21954919.09 21954919.22 21954919.35 0.0139 0.0026

Saturn 55398-07-09 19:26 G 21954954.15 21954954.31 21954954.48 0.0266 0.0123

Uranus 55398-08-31 20:24 G 21955007.23 21955007.35 21955007.48 0.0139 0.0046

Saturn 55398-10-06 15:50 G 21955042.98 21955043.16 21955043.35 0.0266 0.0058

Uranus 55398-11-27 23:31 G 21955095.37 21955095.48 21955095.60 0.0139 0.0067

Saturn 55399-01-03 12:29 G 21955131.95 21955132.02 21955132.10 0.0265 0.0241

Uranus 55399-02-24 02:53 G 21955183.52 21955183.62 21955183.72 0.0139 0.0087

Uranus 55399-05-23 06:14 G 21955271.68 21955271.76 21955271.84 0.0139 0.0108

Uranus 55399-08-19 09:07 G 21955359.85 21955359.88 21955359.94 0.0139 0.0129

Earth 55400-02-08 18:58 G 21955533.20 21955533.29 21955533.37 0.2669 0.1540

Moon 55400-02-08 19:41 G 21955533.23 21955533.32 21955533.40 0.2669 0.1676 *

Jupiter 55401-03-06 14:10 G 21955923.91 21955924.09 21955924.27 0.0500 0.0087

Mars 55406-08-10 00:43 G 21957906.42 21957906.53 21957906.64 0.1736 0.0718

Jupiter 55406-11-08 16:05 G 21957997.04 21957997.17 21957997.30 0.0527 0.0065

Moon 55407-02-02 17:46 G 21958083.17 21958083.24 21958083.32 0.2677 0.1839

Earth 55407-02-02 18:14 G 21958083.18 21958083.26 21958083.35 0.2672 0.1813 *

Mars 55407-06-04 22:48 G 21958205.36 21958205.45 21958205.54 0.1800 0.1466

Moon 55409-08-07 14:53 G 21959000.03 21959000.12 21959000.22 0.2663 0.2097

Earth 55409-08-07 16:34 G 21959000.09 21959000.19 21959000.29 0.2660 0.2034 *

Jupiter 55412-12-23 11:46 G 21960233.85 21960233.99 21960234.14 0.0499 0.0291

Saturn 55413-08-05 05:17 G 21960458.62 21960458.72 21960458.83 0.0294 0.0184

Saturn 55413-11-01 17:46 G 21960547.11 21960547.24 21960547.37 0.0295 0.0011

Saturn 55414-01-29 06:14 G 21960635.65 21960635.76 21960635.87 0.0295 0.0164

Mars 55415-12-31 10:19 G 21961336.81 21961336.93 21961337.05 0.1730 0.0296

Pluto 55418-01-07 21:36 G 21962075.30 21962075.40 21962075.52 0.0077 0.0061

Pluto 55418-04-05 23:46 G 21962163.35 21962163.49 21962163.66 0.0077 0.0040

Pluto 55418-07-03 02:10 G 21962251.42 21962251.59 21962251.78 0.0077 0.0019

Jupiter 55418-08-27 19:55 G 21962307.21 21962307.33 21962307.46 0.0527 0.0106

Pluto 55418-09-29 04:34 G 21962339.51 21962339.69 21962339.87 0.0077 0.0003

Pluto 55418-12-26 06:43 G 21962427.61 21962427.78 21962427.96 0.0077 0.0024

Pluto 55419-03-24 08:38 G 21962515.73 21962515.86 21962516.02 0.0076 0.0045

Pluto 55419-06-20 10:48 G 21962603.88 21962603.95 21962604.06 0.0076 0.0066

Earth 55420-02-05 12:14 G 21962833.90 21962834.01 21962834.12 0.2671 0.0600

Moon 55420-02-05 12:14 G 21962833.91 21962834.01 21962834.12 0.2678 0.0653 *

Venus 55421-01-24 22:48 G 21963188.41 21963188.45 21963188.50 0.3684 0.3312

Moon 55422-08-10 22:34 G 21963751.29 21963751.44 21963751.60 0.2668 0.0288

Earth 55422-08-10 23:02 G 21963751.31 21963751.46 21963751.62 0.2661 0.0405 *

Jupiter 55424-10-11 09:07 G 21964543.88 21964543.88 21964543.90 0.0498 0.0497

Jupiter 55425-01-09 17:46 G 21964634.11 21964634.24 21964634.38 0.0501 0.0338

Mars 55425-05-22 20:10 G 21964767.26 21964767.34 21964767.41 0.1724 0.1300

Venus 55426-08-10 13:55 G 21965211.99 21965212.08 21965212.18 0.3684 0.0932

Saturn 55427-11-27 20:38 G 21965686.21 21965686.36 21965686.51 0.0266 0.0159

Saturn 55428-02-24 17:02 G 21965775.03 21965775.21 21965775.40 0.0266 0.0022

Saturn 55428-05-23 13:41 G 21965863.95 21965864.07 21965864.19 0.0266 0.0205

Jupiter 55430-06-15 23:31 G 21966617.37 21966617.48 21966617.59 0.0529 0.0284

Jupiter 55430-09-13 05:31 G 21966706.65 21966706.73 21966706.82 0.0526 0.0378

Venus 55432-02-24 05:02 G 21967235.62 21967235.71 21967235.81 0.3684 0.1470

Earth 55433-02-07 06:00 G 21967584.64 21967584.75 21967584.86 0.2670 0.0587

Moon 55433-02-07 06:29 G 21967584.67 21967584.77 21967584.88 0.2674 0.0719 *

Jupiter 55436-10-28 14:53 G 21968943.94 21968944.12 21968944.30 0.0500 0.0122

Uranus 55437-01-24 11:46 G 21969031.95 21969031.99 21969032.05 0.0140 0.0134

Uranus 55437-04-22 19:41 G 21969120.20 21969120.32 21969120.45 0.0140 0.0104

Mars 55437-07-14 00:14 G 21969202.36 21969202.51 21969202.66 0.1792 0.0605

Uranus 55437-07-20 03:22 G 21969208.49 21969208.64 21969208.81 0.0140 0.0074

Uranus 55437-10-16 11:31 G 21969296.79 21969296.98 21969297.16 0.0140 0.0043

Uranus 55438-01-12 19:26 G 21969385.11 21969385.31 21969385.50 0.0139 0.0013

Uranus 55438-04-11 03:07 G 21969473.44 21969473.63 21969473.83 0.0139 0.0018

Uranus 55438-07-08 11:02 G 21969561.78 21969561.96 21969562.15 0.0139 0.0049

Uranus 55438-10-04 18:58 G 21969650.14 21969650.29 21969650.45 0.0139 0.0079

Uranus 55439-01-01 02:38 G 21969738.51 21969738.61 21969738.74 0.0139 0.0110

Jupiter 55442-04-04 03:36 G 21970927.58 21970927.65 21970927.72 0.0529 0.0451

Jupiter 55442-07-02 09:50 G 21971016.80 21971016.91 21971017.03 0.0527 0.0219

Saturn 55442-12-23 08:53 G 21971190.78 21971190.87 21971190.96 0.0294 0.0213

Saturn 55443-03-21 21:22 G 21971279.26 21971279.39 21971279.52 0.0294 0.0040

Saturn 55443-06-18 09:36 G 21971367.79 21971367.90 21971368.02 0.0295 0.0133

Mars 55446-02-08 00:43 G 21972333.43 21972333.53 21972333.63 0.1736 0.0868

Earth 55446-02-09 23:46 G 21972335.41 21972335.49 21972335.57 0.2669 0.1761

Moon 55446-02-10 00:29 G 21972335.44 21972335.52 21972335.60 0.2669 0.1795 *

Mars 55446-12-03 23:31 G 21972632.37 21972632.48 21972632.60 0.1800 0.1222

Jupiter 55448-08-16 11:17 G 21973253.79 21973253.97 21973254.15 0.0500 0.0099

Venus 55451-07-12 04:05 G 21974313.53 21974313.67 21974313.81 0.3686 0.1596

Moon 55453-02-02 22:48 G 21974885.37 21974885.45 21974885.54 0.2678 0.1638

Earth 55453-02-02 23:17 G 21974885.38 21974885.47 21974885.55 0.2672 0.1582 *

Jupiter 55454-04-20 14:24 G 21975326.97 21975327.10 21975327.23 0.0527 0.0061

Mars 55455-07-01 10:19 G 21975763.81 21975763.93 21975764.05 0.1730 0.0150

Moon 55455-08-08 21:36 G 21975802.29 21975802.40 21975802.51 0.2664 0.1860

Earth 55455-08-08 23:02 G 21975802.34 21975802.46 21975802.58 0.2660 0.1605 *

Saturn 55457-04-15 20:10 G 21976418.23 21976418.34 21976418.46 0.0266 0.0209

Saturn 55457-07-13 16:34 G 21976507.01 21976507.19 21976507.38 0.0266 0.0029

Saturn 55457-10-10 12:58 G 21976595.89 21976596.04 21976596.20 0.0266 0.0153

Jupiter 55460-06-04 08:53 G 21977563.73 21977563.87 21977564.02 0.0499 0.0303

Mars 55464-11-20 20:10 G 21979194.25 21979194.34 21979194.43 0.1724 0.1151

Earth 55466-02-05 17:02 G 21979636.10 21979636.21 21979636.32 0.2671 0.0374

Moon 55466-02-05 17:17 G 21979636.11 21979636.22 21979636.32 0.2678 0.0331 *

Jupiter 55466-02-06 18:14 G 21979637.14 21979637.26 21979637.39 0.0527 0.0110

Moon 55468-08-11 05:17 G 21980553.58 21980553.72 21980553.87 0.2669 0.0909

Earth 55468-08-11 05:46 G 21980553.59 21980553.74 21980553.89 0.2662 0.0842 *

Neptune 55471-08-22 18:14 G 21981660.23 21981660.26 21981660.30 0.0089 0.0085

Neptune 55471-11-18 19:41 G 21981748.26 21981748.32 21981748.39 0.0089 0.0077

Neptune 55472-02-14 21:07 G 21981836.30 21981836.38 21981836.46 0.0089 0.0069

Saturn 55472-05-11 10:48 G 21981922.89 21981922.95 21981923.01 0.0294 0.0264

Neptune 55472-05-12 22:19 G 21981924.34 21981924.43 21981924.53 0.0089 0.0062

Jupiter 55472-06-21 15:22 G 21981964.00 21981964.14 21981964.28 0.0501 0.0331

Saturn 55472-08-07 23:17 G 21982011.35 21982011.47 21982011.60 0.0295 0.0090

Neptune 55472-08-08 23:46 G 21982012.39 21982012.49 21982012.60 0.0089 0.0053

Saturn 55472-11-04 11:46 G 21982099.86 21982099.99 21982100.12 0.0295 0.0084

Neptune 55472-11-05 01:12 G 21982100.44 21982100.55 21982100.67 0.0089 0.0045

Saturn 55473-02-01 00:00 G 21982188.44 21982188.50 21982188.56 0.0295 0.0256

Neptune 55473-02-01 02:38 G 21982188.49 21982188.61 21982188.73 0.0089 0.0037 *

Neptune 55473-04-30 03:50 G 21982276.54 21982276.66 21982276.79 0.0089 0.0030

Neptune 55473-07-27 05:17 G 21982364.59 21982364.72 21982364.85 0.0089 0.0022

Neptune 55473-10-23 06:43 G 21982452.65 21982452.78 21982452.91 0.0089 0.0014

Neptune 55474-01-19 07:55 G 21982540.70 21982540.83 21982540.97 0.0089 0.0006

Neptune 55474-04-17 09:22 G 21982628.76 21982628.89 21982629.02 0.0089 0.0002

Neptune 55474-07-14 10:34 G 21982716.81 21982716.94 21982717.08 0.0089 0.0010

Neptune 55474-10-10 12:00 G 21982804.87 21982805.00 21982805.13 0.0089 0.0018

Neptune 55475-01-06 13:12 G 21982892.93 21982893.05 21982893.18 0.0089 0.0026

Neptune 55475-04-04 14:38 G 21982980.99 21982981.11 21982981.23 0.0089 0.0033

Neptune 55475-07-01 15:50 G 21983069.05 21983069.16 21983069.28 0.0089 0.0041

Neptune 55475-09-27 17:02 G 21983157.11 21983157.21 21983157.33 0.0089 0.0049

Neptune 55475-12-24 18:29 G 21983245.18 21983245.27 21983245.38 0.0089 0.0057

Neptune 55476-03-21 19:55 G 21983333.24 21983333.33 21983333.42 0.0089 0.0064

Neptune 55476-06-17 21:07 G 21983421.31 21983421.38 21983421.46 0.0089 0.0072

Neptune 55476-09-13 22:19 G 21983509.38 21983509.43 21983509.50 0.0089 0.0080

Neptune 55476-12-10 23:31 G 21983597.48 21983597.48 21983597.51 0.0089 0.0088

Mars 55477-01-12 00:43 G 21983629.39 21983629.53 21983629.67 0.1793 0.0838

Venus 55477-08-31 20:10 G 21983861.27 21983861.34 21983861.42 0.3684 0.2420

Jupiter 55477-11-25 22:05 G 21983947.31 21983947.42 21983947.53 0.0528 0.0281

Jupiter 55478-02-23 04:05 G 21984036.59 21984036.67 21984036.76 0.0525 0.0379

Earth 55479-02-08 10:48 G 21984386.85 21984386.95 21984387.06 0.2670 0.0813

Moon 55479-02-08 11:31 G 21984386.87 21984386.98 21984387.08 0.2673 0.0837 *

Uranus 55480-07-20 22:05 G 21984915.39 21984915.42 21984915.46 0.0138 0.0132

Uranus 55480-10-17 01:26 G 21985003.49 21985003.56 21985003.64 0.0138 0.0111

Uranus 55481-01-13 04:34 G 21985091.60 21985091.69 21985091.80 0.0138 0.0091

Uranus 55481-04-11 07:55 G 21985179.72 21985179.83 21985179.95 0.0138 0.0071

Uranus 55481-07-08 11:17 G 21985267.85 21985267.97 21985268.10 0.0138 0.0050

Uranus 55481-10-04 14:38 G 21985355.98 21985356.11 21985356.24 0.0139 0.0030

Uranus 55481-12-31 17:46 G 21985444.11 21985444.24 21985444.38 0.0139 0.0011

Uranus 55482-03-29 21:07 G 21985532.25 21985532.38 21985532.51 0.0139 0.0011

Uranus 55482-06-26 00:14 G 21985620.39 21985620.51 21985620.65 0.0139 0.0032

Uranus 55482-09-22 03:36 G 21985708.53 21985708.65 21985708.77 0.0139 0.0052

Uranus 55482-12-19 06:43 G 21985796.68 21985796.78 21985796.90 0.0139 0.0072

Uranus 55483-03-17 10:05 G 21985884.83 21985884.92 21985885.02 0.0139 0.0092

Venus 55483-03-17 11:17 G 21985884.87 21985884.97 21985885.07 0.3684 0.0075 *

Uranus 55483-06-13 13:26 G 21985972.98 21985973.06 21985973.13 0.0139 0.0113

Uranus 55483-09-09 16:19 G 21986061.16 21986061.18 21986061.23 0.0139 0.0134

Jupiter 55484-04-09 12:29 G 21986273.84 21986274.02 21986274.20 0.0500 0.0118

Mars 55485-08-09 00:43 G 21986760.43 21986760.53 21986760.62 0.1736 0.1005

Moon 55486-02-01 09:22 G 21986936.87 21986936.89 21986936.91 0.2675 0.2632

Earth 55486-02-01 10:05 G 21986936.89 21986936.92 21986936.95 0.2673 0.2571 *

Mars 55486-06-04 00:14 G 21987059.38 21987059.51 21987059.64 0.1799 0.0988

Saturn 55486-09-02 21:07 G 21987150.32 21987150.38 21987150.46 0.0267 0.0247

Saturn 55486-11-30 17:31 G 21987239.05 21987239.23 21987239.41 0.0266 0.0066

Saturn 55487-02-27 14:10 G 21987327.92 21987328.09 21987328.26 0.0266 0.0116

Venus 55488-09-30 02:24 G 21987908.53 21987908.60 21987908.68 0.3684 0.2347

Jupiter 55489-09-14 01:26 G 21988257.50 21988257.56 21988257.62 0.0529 0.0465

Jupiter 55489-12-12 07:55 G 21988346.71 21988346.83 21988346.94 0.0527 0.0205

Earth 55492-02-11 04:34 G 21989137.62 21989137.69 21989137.76 0.2669 0.1978

Moon 55492-02-11 05:17 G 21989137.65 21989137.72 21989137.78 0.2668 0.2120 *

Mars 55494-12-30 10:34 G 21990190.82 21990190.94 21990191.06 0.1730 0.0068

Jupiter 55496-01-27 09:36 G 21990583.72 21990583.90 21990584.08 0.0499 0.0096

Moon 55499-02-04 03:50 G 21991687.57 21991687.66 21991687.75 0.2679 0.1389

Earth 55499-02-04 04:05 G 21991687.57 21991687.67 21991687.76 0.2672 0.1349 *

Moon 55501-08-10 04:34 G 21992604.55 21992604.69 21992604.83 0.2665 0.1191

Earth 55501-08-10 05:46 G 21992604.60 21992604.74 21992604.88 0.2660 0.1166 *

Saturn 55501-09-29 14:24 G 21992655.09 21992655.10 21992655.12 0.0294 0.0292

Jupiter 55501-10-01 12:14 G 21992656.88 21992657.01 21992657.13 0.0527 0.0047

Saturn 55501-12-27 03:07 G 21992743.51 21992743.63 21992743.75 0.0294 0.0117

Saturn 55502-03-25 15:36 G 21992832.02 21992832.15 21992832.28 0.0294 0.0056

Saturn 55502-06-22 03:50 G 21992920.58 21992920.66 21992920.74 0.0295 0.0228

Mars 55504-05-22 20:10 G 21993621.24 21993621.34 21993621.44 0.1724 0.1002

Jupiter 55507-11-16 06:00 G 21994893.61 21994893.75 21994893.89 0.0499 0.0315

Earth 55512-02-07 21:50 G 21996438.30 21996438.41 21996438.52 0.2671 0.0149

Moon 55512-02-07 22:05 G 21996438.31 21996438.42 21996438.53 0.2677 0.0145 *

Jupiter 55513-07-20 16:34 G 21996967.06 21996967.19 21996967.31 0.0528 0.0115

Moon 55514-08-13 12:00 G 21997355.87 21997356.00 21997356.14 0.2669 0.1163

Earth 55514-08-13 12:14 G 21997355.88 21997356.01 21997356.15 0.2662 0.1290 *

Saturn 55516-04-19 17:31 G 21997971.07 21997971.23 21997971.40 0.0266 0.0112

Mars 55516-07-14 01:12 G 21998056.43 21998056.55 21998056.68 0.1792 0.1066

Saturn 55516-07-17 13:55 G 21998059.90 21998060.08 21998060.26 0.0266 0.0069

Saturn 55516-10-14 10:34 G 21998148.89 21998148.94 21998149.00 0.0265 0.0251

Jupiter 55519-12-03 12:14 G 21999293.87 21999294.01 21999294.15 0.0501 0.0317

Uranus 55521-02-14 18:14 G 21999733.20 21999733.26 21999733.34 0.0140 0.0129

Uranus 55521-05-14 02:24 G 21999821.46 21999821.60 21999821.73 0.0140 0.0098

Uranus 55521-08-10 10:05 G 21999909.76 21999909.92 21999910.09 0.0140 0.0068

Uranus 55521-11-06 17:46 G 21999998.06 21999998.24 21999998.44 0.0140 0.0038

Uranus 55522-02-03 01:55 G 22000086.38 22000086.58 22000086.77 0.0139 0.0007

Uranus 55522-05-02 09:50 G 22000174.71 22000174.91 22000175.10 0.0139 0.0024

Uranus 55522-07-29 17:31 G 22000263.06 22000263.23 22000263.41 0.0139 0.0054

Uranus 55522-10-26 01:12 G 22000351.41 22000351.55 22000351.72 0.0139 0.0085

Uranus 55523-01-22 09:22 G 22000439.79 22000439.89 22000440.00 0.0139 0.0115

Mars 55525-02-08 00:43 G 22001187.44 22001187.53 22001187.62 0.1736 0.1156

Earth 55525-02-09 15:36 G 22001189.05 22001189.15 22001189.25 0.2670 0.1034

Moon 55525-02-09 16:19 G 22001189.08 22001189.18 22001189.28 0.2672 0.1173 *

Jupiter 55525-05-08 20:24 G 22001277.24 22001277.35 22001277.46 0.0528 0.0286

Jupiter 55525-08-06 02:24 G 22001366.52 22001366.60 22001366.69 0.0525 0.0375

Mars 55525-12-04 00:29 G 22001486.38 22001486.52 22001486.66 0.1800 0.0779

Saturn 55531-05-16 04:48 G 22003475.59 22003475.70 22003475.81 0.0295 0.0171

Saturn 55531-08-12 17:17 G 22003564.09 22003564.22 22003564.35 0.0295 0.0003

Jupiter 55531-09-21 09:36 G 22003603.72 22003603.90 22003604.08 0.0500 0.0109

Saturn 55531-11-09 05:31 G 22003652.63 22003652.73 22003652.84 0.0295 0.0176

Moon 55532-02-03 14:24 G 22003739.06 22003739.10 22003739.14 0.2676 0.2463

Earth 55532-02-03 14:53 G 22003739.07 22003739.12 22003739.17 0.2673 0.2337 *

Venus 55534-04-08 17:31 G 22004534.14 22004534.23 22004534.32 0.3684 0.1529

Mars 55534-07-01 10:19 G 22004617.81 22004617.93 22004618.05 0.1730 0.0142

Jupiter 55537-02-25 00:14 G 22005587.45 22005587.51 22005587.57 0.0529 0.0460

Jupiter 55537-05-25 06:29 G 22005676.66 22005676.77 22005676.89 0.0526 0.0208

Earth 55538-02-12 09:22 G 22005939.83 22005939.89 22005939.95 0.2669 0.2199

Moon 55538-02-12 09:50 G 22005939.85 22005939.91 22005939.97 0.2666 0.2210 *

Venus 55539-10-23 08:38 G 22006557.76 22006557.86 22006557.96 0.3684 0.0858

Jupiter 55543-07-10 07:12 G 22007913.62 22007913.80 22007913.98 0.0499 0.0100

Mars 55543-11-21 20:10 G 22008048.24 22008048.34 22008048.45 0.1724 0.0855

Moon 55545-02-05 08:38 G 22008489.76 22008489.86 22008489.96 0.2679 0.1126

Earth 55545-02-05 08:53 G 22008489.77 22008489.87 22008489.97 0.2672 0.1122 *

Venus 55545-05-07 23:46 G 22008581.44 22008581.49 22008581.53 0.3684 0.3222

Saturn 55545-09-06 18:29 G 22008703.12 22008703.27 22008703.42 0.0266 0.0151

Saturn 55545-12-04 14:53 G 22008791.94 22008792.12 22008792.31 0.0266 0.0030

Saturn 55546-03-03 11:17 G 22008880.87 22008880.97 22008881.09 0.0266 0.0213

Moon 55547-08-11 11:31 G 22009406.83 22009406.98 22009407.12 0.2667 0.0898

Earth 55547-08-11 12:14 G 22009406.86 22009407.01 22009407.16 0.2661 0.0724 *

Jupiter 55549-03-13 10:05 G 22009986.79 22009986.92 22009987.05 0.0527 0.0031

Jupiter 55555-04-28 04:19 G 22012223.54 22012223.68 22012223.82 0.0499 0.0309

Neptune 55555-10-21 13:55 G 22012400.03 22012400.08 22012400.16 0.0088 0.0082

Mars 55556-01-13 01:55 G 22012483.47 22012483.58 22012483.69 0.1792 0.1298

Neptune 55556-01-17 17:17 G 22012488.13 22012488.22 22012488.35 0.0088 0.0072

Neptune 55556-04-14 20:53 G 22012576.25 22012576.37 22012576.52 0.0088 0.0060

Neptune 55556-07-12 00:29 G 22012664.37 22012664.52 22012664.69 0.0088 0.0049

Neptune 55556-10-08 03:50 G 22012752.50 22012752.66 22012752.85 0.0088 0.0039

Neptune 55557-01-04 07:26 G 22012840.64 22012840.81 22012841.00 0.0088 0.0027

Neptune 55557-04-02 11:02 G 22012928.78 22012928.96 22012929.16 0.0088 0.0016

Neptune 55557-06-29 14:38 G 22013016.92 22013017.11 22013017.31 0.0088 0.0005

Neptune 55557-09-25 18:14 G 22013105.07 22013105.26 22013105.45 0.0088 0.0006

Neptune 55557-12-22 21:50 G 22013193.22 22013193.41 22013193.60 0.0088 0.0018

Earth 55558-02-08 02:38 G 22013240.50 22013240.61 22013240.72 0.2671 0.0096

Moon 55558-02-08 03:07 G 22013240.52 22013240.63 22013240.74 0.2676 0.0128 *

Neptune 55558-03-21 01:12 G 22013281.37 22013281.55 22013281.74 0.0088 0.0029

Neptune 55558-06-17 04:34 G 22013369.53 22013369.69 22013369.88 0.0088 0.0040

Neptune 55558-09-13 08:10 G 22013457.69 22013457.84 22013458.01 0.0088 0.0051

Neptune 55558-12-10 11:46 G 22013545.86 22013545.99 22013546.14 0.0088 0.0063

Neptune 55559-03-08 15:22 G 22013634.04 22013634.14 22013634.25 0.0088 0.0074

Venus 55559-03-09 22:19 G 22013635.28 22013635.43 22013635.57 0.3686 0.1459

Neptune 55559-06-04 18:29 G 22013722.25 22013722.27 22013722.35 0.0088 0.0086

Moon 55560-08-13 18:58 G 22014158.18 22014158.29 22014158.40 0.2669 0.1845

Earth 55560-08-13 18:58 G 22014158.18 22014158.29 22014158.41 0.2662 0.1743 *

Saturn 55560-10-02 08:24 G 22014207.76 22014207.85 22014207.95 0.0294 0.0199

Saturn 55560-12-29 21:07 G 22014296.25 22014296.38 22014296.51 0.0294 0.0025

Jupiter 55560-12-30 14:10 G 22014296.97 22014297.09 22014297.22 0.0528 0.0134

Saturn 55561-03-28 09:22 G 22014384.78 22014384.89 22014385.01 0.0295 0.0148

Jupiter 55561-03-29 20:10 G 22014386.33 22014386.34 22014386.35 0.0525 0.0522

Mars 55564-08-09 00:43 G 22015614.45 22015614.53 22015614.61 0.1736 0.1299

Uranus 55564-08-11 05:17 G 22015616.67 22015616.72 22015616.77 0.0138 0.0126

Uranus 55564-11-07 08:24 G 22015704.78 22015704.85 22015704.94 0.0138 0.0107

Uranus 55565-02-03 11:46 G 22015792.90 22015792.99 22015793.10 0.0138 0.0086

Uranus 55565-05-02 15:07 G 22015881.02 22015881.13 22015881.25 0.0138 0.0066

Mars 55565-06-04 01:12 G 22015913.40 22015913.55 22015913.70 0.1800 0.0548

Uranus 55565-07-29 18:29 G 22015969.15 22015969.27 22015969.40 0.0138 0.0045

Uranus 55565-10-25 21:50 G 22016057.28 22016057.41 22016057.54 0.0139 0.0025

Uranus 55566-01-22 00:58 G 22016145.41 22016145.54 22016145.68 0.0139 0.0006

Uranus 55566-04-20 04:19 G 22016233.55 22016233.68 22016233.81 0.0139 0.0016

Uranus 55566-07-17 07:26 G 22016321.69 22016321.81 22016321.94 0.0139 0.0037

Uranus 55566-10-13 10:48 G 22016409.83 22016409.95 22016410.07 0.0139 0.0057

Uranus 55567-01-09 13:55 G 22016497.98 22016498.08 22016498.20 0.0139 0.0077

Uranus 55567-04-07 17:17 G 22016586.13 22016586.22 22016586.31 0.0139 0.0097

Jupiter 55567-05-15 09:07 G 22016623.74 22016623.88 22016624.03 0.0501 0.0304

Uranus 55567-07-04 20:24 G 22016674.29 22016674.35 22016674.43 0.0139 0.0118

Uranus 55567-09-30 23:46 G 22016762.48 22016762.49 22016762.51 0.0139 0.0138

Earth 55571-02-10 20:24 G 22017991.26 22017991.35 22017991.45 0.2669 0.1258

Moon 55571-02-10 21:07 G 22017991.29 22017991.38 22017991.48 0.2672 0.1298 *

Jupiter 55572-10-18 18:43 G 22018607.17 22018607.28 22018607.38 0.0529 0.0293

Jupiter 55573-01-16 00:43 G 22018696.44 22018696.53 22018696.62 0.0526 0.0370

Mars 55573-12-30 10:34 G 22019044.82 22019044.94 22019045.05 0.1730 0.0299

Saturn 55575-01-24 18:58 G 22019435.17 22019435.29 22019435.42 0.0266 0.0193

Saturn 55575-04-23 15:07 G 22019523.95 22019524.13 22019524.32 0.0266 0.0015

Saturn 55575-07-21 11:31 G 22019612.84 22019612.98 22019613.13 0.0265 0.0168

Pluto 55576-11-19 03:22 G 22020099.58 22020099.64 22020099.71 0.0067 0.0059

Pluto 55577-02-15 03:50 G 22020187.58 22020187.66 22020187.77 0.0067 0.0049

Pluto 55577-05-14 04:34 G 22020275.58 22020275.69 22020275.81 0.0067 0.0038

Pluto 55577-08-10 05:17 G 22020363.59 22020363.72 22020363.85 0.0067 0.0027

Pluto 55577-11-06 06:00 G 22020451.61 22020451.75 22020451.88 0.0068 0.0016

Pluto 55578-02-02 06:29 G 22020539.63 22020539.77 22020539.91 0.0068 0.0005

Moon 55578-02-03 19:12 G 22020541.24 22020541.30 22020541.37 0.2678 0.2111

Earth 55578-02-03 19:41 G 22020541.26 22020541.32 22020541.39 0.2673 0.2106 *

Pluto 55578-05-01 07:12 G 22020627.66 22020627.80 22020627.94 0.0068 0.0006

Pluto 55578-07-28 07:41 G 22020715.69 22020715.82 22020715.96 0.0068 0.0017

Pluto 55578-10-24 08:10 G 22020803.72 22020803.84 22020803.97 0.0068 0.0028

Pluto 55579-01-20 08:53 G 22020891.76 22020891.87 22020891.99 0.0068 0.0039

Jupiter 55579-03-03 06:29 G 22020933.59 22020933.77 22020933.95 0.0500 0.0095

Pluto 55579-04-18 09:22 G 22020979.81 22020979.89 22020979.99 0.0068 0.0051

Pluto 55579-07-15 10:05 G 22021067.87 22021067.92 22021067.98 0.0068 0.0062

Mars 55583-05-22 20:10 G 22022475.23 22022475.34 22022475.45 0.1724 0.0706

Earth 55584-02-13 14:10 G 22022742.04 22022742.09 22022742.13 0.2668 0.2414

Moon 55584-02-13 14:38 G 22022742.08 22022742.11 22022742.14 0.2664 0.2531 *

Jupiter 55584-08-06 22:34 G 22022917.38 22022917.44 22022917.50 0.0529 0.0464

Jupiter 55584-11-04 04:48 G 22023006.59 22023006.70 22023006.82 0.0526 0.0206

Venus 55585-04-29 23:46 G 22023183.43 22023183.49 22023183.54 0.3684 0.3039

Saturn 55590-02-19 09:50 G 22024939.86 22024939.91 22024939.98 0.0294 0.0256

Saturn 55590-05-18 22:34 G 22025028.31 22025028.44 22025028.57 0.0295 0.0081

Saturn 55590-08-15 11:02 G 22025116.83 22025116.96 22025117.08 0.0295 0.0093

Saturn 55590-11-11 23:17 G 22025205.42 22025205.47 22025205.53 0.0295 0.0266

Venus 55590-11-13 14:53 G 22025207.02 22025207.12 22025207.22 0.3684 0.0657

Jupiter 55590-12-20 04:05 G 22025243.50 22025243.67 22025243.85 0.0500 0.0112

Moon 55591-02-06 13:41 G 22025291.96 22025292.07 22025292.17 0.2679 0.0948

Earth 55591-02-06 13:41 G 22025291.97 22025292.07 22025292.17 0.2672 0.0890 *

Mars 55592-10-12 05:46 G 22025905.74 22025905.74 22025905.75 0.1718 0.1713

Moon 55593-08-11 18:00 G 22026209.10 22026209.25 22026209.40 0.2667 0.0316

Earth 55593-08-11 18:43 G 22026209.13 22026209.28 22026209.44 0.2661 0.0298 *

Mars 55595-07-14 02:24 G 22026910.52 22026910.60 22026910.68 0.1792 0.1520

Venus 55596-05-29 06:00 G 22027230.66 22027230.75 22027230.83 0.3684 0.1743

Jupiter 55596-08-23 08:53 G 22027316.74 22027316.87 22027317.00 0.0527 0.0038

Jupiter 55602-10-08 01:55 G 22029553.44 22029553.58 22029553.72 0.0499 0.0313

Mars 55604-02-08 00:43 G 22030041.47 22030041.53 22030041.59 0.1737 0.1442

Earth 55604-02-09 07:26 G 22030042.70 22030042.81 22030042.92 0.2671 0.0312

Moon 55604-02-09 08:10 G 22030042.73 22030042.84 22030042.94 0.2676 0.0403 *

Saturn 55604-06-12 19:12 G 22030167.23 22030167.30 22030167.39 0.0266 0.0236

Saturn 55604-09-09 15:36 G 22030255.97 22030256.15 22030256.33 0.0266 0.0056

Mars 55604-12-03 01:55 G 22030340.42 22030340.58 22030340.73 0.1799 0.0300

Saturn 55604-12-07 12:00 G 22030344.84 22030345.00 22030345.17 0.0266 0.0125

Uranus 55605-03-07 00:43 G 22030434.45 22030434.53 22030434.63 0.0140 0.0123

Uranus 55605-06-03 08:38 G 22030522.72 22030522.86 22030523.01 0.0140 0.0093

Uranus 55605-08-30 16:19 G 22030611.02 22030611.18 22030611.36 0.0140 0.0063

Uranus 55605-11-27 00:29 G 22030699.33 22030699.52 22030699.71 0.0140 0.0032

Uranus 55606-02-23 08:24 G 22030787.65 22030787.85 22030788.04 0.0139 0.0003

Uranus 55606-05-22 16:05 G 22030875.99 22030876.17 22030876.36 0.0139 0.0029

Earth 55606-08-15 01:41 G 22030960.48 22030960.57 22030960.65 0.2662 0.2190

Moon 55606-08-15 01:55 G 22030960.49 22030960.58 22030960.67 0.2669 0.2147 *

Uranus 55606-08-19 00:00 G 22030964.33 22030964.50 22030964.68 0.0139 0.0059

Uranus 55606-11-15 07:41 G 22031052.69 22031052.82 22031052.98 0.0139 0.0090

Uranus 55607-02-11 15:50 G 22031141.07 22031141.16 22031141.26 0.0139 0.0120

Jupiter 55608-06-11 12:14 G 22031626.89 22031627.01 22031627.14 0.0528 0.0143

Jupiter 55608-09-08 18:14 G 22031716.24 22031716.26 22031716.28 0.0525 0.0513

Mars 55613-06-30 10:34 G 22033471.82 22033471.94 22033472.05 0.1730 0.0445

Jupiter 55614-10-25 07:41 G 22033953.68 22033953.82 22033953.97 0.0500 0.0313

Venus 55615-10-15 00:43 G 22034308.38 22034308.53 22034308.68 0.3687 0.1509

Earth 55617-02-11 01:12 G 22034793.46 22034793.55 22034793.64 0.2669 0.1478

Moon 55617-02-11 01:55 G 22034793.49 22034793.58 22034793.67 0.2670 0.1580 *

Saturn 55619-07-09 13:26 G 22035672.04 22035672.06 22035672.09 0.0294 0.0286

Saturn 55619-10-06 02:10 G 22035760.47 22035760.59 22035760.71 0.0294 0.0111

Saturn 55620-01-02 14:38 G 22035848.98 22035849.11 22035849.24 0.0295 0.0063

Jupiter 55620-03-30 16:19 G 22035937.08 22035937.18 22035937.29 0.0529 0.0309

Saturn 55620-03-31 02:53 G 22035937.54 22035937.62 22035937.70 0.0295 0.0235

Jupiter 55620-06-27 22:34 G 22036026.35 22036026.44 22036026.54 0.0526 0.0355

Mars 55622-11-20 20:10 G 22036902.23 22036902.34 22036902.46 0.1724 0.0563

Moon 55624-02-05 00:14 G 22037343.44 22037343.51 22037343.58 0.2679 0.2000

Earth 55624-02-05 00:43 G 22037343.45 22037343.53 22037343.60 0.2673 0.1873 *

Moon 55626-08-09 17:31 G 22038260.18 22038260.23 22038260.29 0.2663 0.2449

Earth 55626-08-09 18:58 G 22038260.21 22038260.29 22038260.37 0.2659 0.2261 *

Jupiter 55626-08-13 03:50 G 22038263.48 22038263.66 22038263.84 0.0500 0.0084

Earth 55630-02-13 18:58 G 22039544.27 22039544.29 22039544.30 0.2668 0.2635

Moon 55630-02-13 19:26 G 22039544.30 22039544.31 22039544.32 0.2664 0.2646 *

Jupiter 55632-01-17 20:38 G 22040247.31 22040247.36 22040247.42 0.0529 0.0470

Mars 55632-04-12 06:00 G 22040332.70 22040332.75 22040332.80 0.1718 0.1556

Jupiter 55632-04-16 03:07 G 22040336.52 22040336.63 22040336.75 0.0527 0.0202

Saturn 55634-01-27 16:19 G 22040988.01 22040988.18 22040988.35 0.0266 0.0097

Saturn 55634-04-26 12:29 G 22041076.85 22041077.02 22041077.20 0.0266 0.0084

Mars 55635-01-12 03:07 G 22041337.60 22041337.63 22041337.65 0.1792 0.1758

Neptune 55636-05-19 18:14 G 22041831.21 22041831.26 22041831.31 0.0089 0.0082

Neptune 55636-08-15 19:12 G 22041919.24 22041919.30 22041919.39 0.0089 0.0074

Neptune 55636-11-11 20:53 G 22042007.28 22042007.37 22042007.46 0.0089 0.0066

Moon 55637-02-06 18:29 G 22042094.17 22042094.27 22042094.38 0.2678 0.0618

Earth 55637-02-06 18:29 G 22042094.17 22042094.27 22042094.38 0.2672 0.0665 *

Neptune 55637-02-07 22:05 G 22042095.33 22042095.42 22042095.53 0.0089 0.0058

Neptune 55637-05-06 23:31 G 22042183.37 22042183.48 22042183.60 0.0089 0.0050

Neptune 55637-08-03 00:43 G 22042271.42 22042271.53 22042271.66 0.0089 0.0042

Neptune 55637-10-30 02:10 G 22042359.47 22042359.59 22042359.72 0.0089 0.0034

Neptune 55638-01-26 03:36 G 22042447.53 22042447.65 22042447.78 0.0089 0.0026

Neptune 55638-04-24 05:02 G 22042535.58 22042535.71 22042535.84 0.0089 0.0018

Jupiter 55638-06-01 01:12 G 22042573.38 22042573.55 22042573.73 0.0499 0.0123

Neptune 55638-07-21 06:29 G 22042623.63 22042623.77 22042623.90 0.0089 0.0010

Neptune 55638-10-17 07:41 G 22042711.69 22042711.82 22042711.96 0.0089 0.0003

Neptune 55639-01-13 09:07 G 22042799.75 22042799.88 22042800.01 0.0089 0.0006

Neptune 55639-04-11 10:19 G 22042887.80 22042887.93 22042888.07 0.0089 0.0014

Neptune 55639-07-08 11:46 G 22042975.86 22042975.99 22042976.12 0.0089 0.0021

Moon 55639-08-13 00:43 G 22043011.37 22043011.53 22043011.68 0.2667 0.0063

Earth 55639-08-13 01:26 G 22043011.40 22043011.56 22043011.71 0.2661 0.0160 *

Neptune 55639-10-04 12:58 G 22043063.92 22043064.04 22043064.17 0.0089 0.0029

Neptune 55639-12-31 14:10 G 22043151.98 22043152.09 22043152.22 0.0089 0.0037

Neptune 55640-03-28 15:36 G 22043240.04 22043240.15 22043240.27 0.0089 0.0045

Neptune 55640-06-24 17:02 G 22043328.10 22043328.21 22043328.32 0.0089 0.0052

Neptune 55640-09-20 18:14 G 22043416.17 22043416.26 22043416.36 0.0089 0.0060

Neptune 55640-12-17 19:26 G 22043504.24 22043504.31 22043504.40 0.0089 0.0068

Neptune 55641-03-15 20:38 G 22043592.31 22043592.36 22043592.44 0.0089 0.0076

Neptune 55641-06-11 22:05 G 22043680.39 22043680.42 22043680.47 0.0089 0.0083

Venus 55641-12-04 20:53 G 22043856.29 22043856.37 22043856.45 0.3684 0.2159

Mars 55643-08-09 00:43 G 22044468.49 22044468.53 22044468.58 0.1736 0.1588

Jupiter 55644-02-03 07:26 G 22044646.68 22044646.81 22044646.94 0.0527 0.0039

Mars 55644-06-03 02:10 G 22044767.43 22044767.59 22044767.74 0.1800 0.0106

Venus 55647-06-20 12:00 G 22045879.90 22045880.00 22045880.10 0.3684 0.0281

Uranus 55648-08-31 12:29 G 22046317.96 22046318.02 22046318.08 0.0138 0.0121

Uranus 55648-11-27 15:36 G 22046406.07 22046406.15 22046406.25 0.0138 0.0101

Saturn 55649-02-22 03:22 G 22046492.53 22046492.64 22046492.75 0.0295 0.0171

Uranus 55649-02-23 19:12 G 22046494.19 22046494.30 22046494.41 0.0138 0.0080

Saturn 55649-05-21 15:50 G 22046581.03 22046581.16 22046581.29 0.0295 0.0003

Uranus 55649-05-22 22:19 G 22046582.32 22046582.43 22046582.55 0.0138 0.0060

Saturn 55649-08-18 04:19 G 22046669.57 22046669.68 22046669.78 0.0295 0.0176

Uranus 55649-08-19 01:41 G 22046670.45 22046670.57 22046670.70 0.0138 0.0040

Uranus 55649-11-15 05:02 G 22046758.58 22046758.71 22046758.84 0.0139 0.0020

Earth 55650-02-09 12:29 G 22046844.91 22046845.02 22046845.12 0.2670 0.0539

Moon 55650-02-09 12:58 G 22046844.93 22046845.04 22046845.15 0.2675 0.0566 *

Uranus 55650-02-11 08:10 G 22046846.71 22046846.84 22046846.98 0.0139 0.0005

Jupiter 55650-03-19 23:02 G 22046883.33 22046883.46 22046883.60 0.0499 0.0323

Uranus 55650-05-10 11:31 G 22046934.85 22046934.98 22046935.11 0.0139 0.0021

Uranus 55650-08-06 14:38 G 22047022.99 22047023.11 22047023.24 0.0139 0.0042

Uranus 55650-11-02 18:00 G 22047111.14 22047111.25 22047111.37 0.0139 0.0062

Uranus 55651-01-29 21:22 G 22047199.28 22047199.39 22047199.49 0.0139 0.0082

Uranus 55651-04-28 00:29 G 22047287.44 22047287.52 22047287.61 0.0139 0.0103

Uranus 55651-07-25 03:36 G 22047375.60 22047375.65 22047375.72 0.0139 0.0123

Earth 55652-08-15 08:10 G 22047762.83 22047762.84 22047762.86 0.2662 0.2643

Mars 55652-12-29 10:19 G 22047898.82 22047898.93 22047899.05 0.1730 0.0583

Venus 55653-01-03 03:07 G 22047903.56 22047903.63 22047903.70 0.3684 0.2606

Jupiter 55655-11-22 11:17 G 22048956.85 22048956.97 22048957.10 0.0528 0.0132

Jupiter 55656-02-19 17:17 G 22049046.21 22049046.22 22049046.23 0.0525 0.0522

Jupiter 55662-04-06 05:31 G 22051283.59 22051283.73 22051283.88 0.0501 0.0312

Mars 55662-05-21 20:10 G 22051329.23 22051329.34 22051329.46 0.1724 0.0417

Earth 55663-02-12 06:00 G 22051595.67 22051595.75 22051595.84 0.2669 0.1699

Moon 55663-02-12 06:43 G 22051595.70 22051595.78 22051595.86 0.2668 0.1787 *

Saturn 55663-06-16 16:05 G 22051720.02 22051720.17 22051720.32 0.0266 0.0145

Pluto 55663-09-08 10:34 G 22051803.87 22051803.94 22051804.05 0.0077 0.0066

Saturn 55663-09-13 12:14 G 22051808.83 22051809.01 22051809.20 0.0266 0.0036

Pluto 55663-12-05 13:12 G 22051891.90 22051892.05 22051892.20 0.0077 0.0044

Saturn 55663-12-11 08:53 G 22051897.76 22051897.87 22051897.98 0.0265 0.0217

Pluto 55664-03-02 15:22 G 22051979.97 22051980.14 22051980.32 0.0077 0.0023

Pluto 55664-05-29 17:46 G 22052068.05 22052068.24 22052068.42 0.0077 0.0002

Pluto 55664-08-25 19:55 G 22052156.15 22052156.33 22052156.51 0.0077 0.0019

Pluto 55664-11-21 22:05 G 22052244.27 22052244.42 22052244.58 0.0077 0.0040

Pluto 55665-02-18 00:14 G 22052332.41 22052332.51 22052332.62 0.0076 0.0061

Jupiter 55667-09-10 14:38 G 22053267.01 22053267.11 22053267.22 0.0529 0.0313

Jupiter 55667-12-08 20:53 G 22053356.28 22053356.37 22053356.47 0.0526 0.0350

Moon 55670-02-05 05:02 G 22054145.62 22054145.71 22054145.80 0.2679 0.1633

Earth 55670-02-05 05:31 G 22054145.64 22054145.73 22054145.82 0.2673 0.1640 *

Mars 55671-10-12 06:00 G 22054759.68 22054759.75 22054759.82 0.1718 0.1408

Moon 55672-08-10 00:14 G 22055062.40 22055062.51 22055062.62 0.2665 0.1890

Earth 55672-08-10 01:26 G 22055062.45 22055062.56 22055062.67 0.2660 0.1829 *

Jupiter 55674-01-23 02:38 G 22055593.43 22055593.61 22055593.79 0.0500 0.0098

Saturn 55678-07-12 06:43 G 22057224.68 22057224.78 22057224.87 0.0294 0.0205

Saturn 55678-10-08 19:12 G 22057313.17 22057313.30 22057313.43 0.0294 0.0030

Saturn 55679-01-05 07:41 G 22057401.70 22057401.82 22057401.93 0.0295 0.0143

Jupiter 55679-06-29 18:43 G 22057577.23 22057577.28 22057577.33 0.0529 0.0481

Jupiter 55679-09-27 01:12 G 22057666.43 22057666.55 22057666.67 0.0527 0.0190

Mars 55683-02-07 00:43 G 22058895.53 22058895.53 22058895.53 0.1736 0.1734

Earth 55683-02-07 23:17 G 22058896.37 22058896.47 22058896.58 0.2671 0.0445

Moon 55683-02-07 23:31 G 22058896.38 22058896.48 22058896.59 0.2678 0.0478 *

Mars 55683-12-03 02:53 G 22059194.46 22059194.62 22059194.77 0.1799 0.0149

Moon 55685-08-13 07:26 G 22059813.66 22059813.81 22059813.96 0.2667 0.0548

Earth 55685-08-13 07:55 G 22059813.68 22059813.83 22059813.98 0.2661 0.0587 *

Jupiter 55685-11-10 22:48 G 22059903.27 22059903.45 22059903.62 0.0499 0.0130

Uranus 55689-03-27 06:58 G 22061135.70 22061135.79 22061135.90 0.0140 0.0119

Uranus 55689-06-23 14:38 G 22061223.98 22061224.11 22061224.27 0.0140 0.0089

Uranus 55689-09-19 22:48 G 22061312.28 22061312.45 22061312.63 0.0140 0.0058

Uranus 55689-12-17 06:43 G 22061400.59 22061400.78 22061400.97 0.0140 0.0028

Uranus 55690-03-15 14:24 G 22061488.91 22061489.10 22061489.30 0.0139 0.0004

Uranus 55690-06-11 22:19 G 22061577.24 22061577.43 22061577.62 0.0139 0.0033

Uranus 55690-09-08 06:14 G 22061665.59 22061665.76 22061665.93 0.0139 0.0064

Uranus 55690-12-05 13:55 G 22061753.95 22061754.08 22061754.23 0.0139 0.0094

Uranus 55691-03-03 21:50 G 22061842.33 22061842.41 22061842.50 0.0139 0.0125

Jupiter 55691-07-16 05:46 G 22061976.61 22061976.74 22061976.87 0.0527 0.0036

Mars 55692-06-29 10:34 G 22062325.83 22062325.94 22062326.05 0.1730 0.0729

Saturn 55692-11-02 16:34 G 22062452.07 22062452.19 22062452.33 0.0266 0.0185

Venus 55692-12-26 03:07 G 22062505.63 22062505.63 22062505.63 0.3684 0.3676

Saturn 55693-01-30 12:58 G 22062540.86 22062541.04 22062541.23 0.0266 0.0006

Mars 55693-04-24 01:55 G 22062624.53 22062624.58 22062624.63 0.1807 0.1703

Saturn 55693-04-29 09:22 G 22062629.75 22062629.89 22062630.03 0.0265 0.0176

Earth 55696-02-10 17:17 G 22063647.11 22063647.22 22063647.32 0.2670 0.0754

Moon 55696-02-10 17:46 G 22063647.14 22063647.24 22063647.34 0.2675 0.0867 *

Jupiter 55697-08-29 20:24 G 22064213.22 22064213.35 22064213.49 0.0499 0.0331

Venus 55698-07-11 18:14 G 22064529.17 22064529.26 22064529.35 0.3684 0.1265

Mars 55701-11-20 20:10 G 22065756.23 22065756.34 22065756.46 0.1724 0.0274

Earth 55703-02-04 16:19 G 22066197.17 22066197.18 22066197.20 0.2674 0.2633

Jupiter 55703-05-05 09:50 G 22066286.79 22066286.91 22066287.04 0.0528 0.0130

Venus 55704-01-26 09:22 G 22066552.79 22066552.89 22066552.99 0.3684 0.1123

Saturn 55707-11-30 07:26 G 22067956.76 22067956.81 22067956.86 0.0294 0.0270

Saturn 55708-02-26 19:55 G 22068045.21 22068045.33 22068045.46 0.0295 0.0096

Saturn 55708-05-25 08:24 G 22068133.73 22068133.85 22068133.98 0.0295 0.0079

Saturn 55708-08-21 20:53 G 22068222.30 22068222.37 22068222.44 0.0295 0.0251

Earth 55709-02-13 10:48 G 22068397.88 22068397.95 22068398.03 0.2669 0.1922

Moon 55709-02-13 11:31 G 22068397.91 22068397.98 22068398.06 0.2667 0.1976 *

Venus 55709-08-11 00:29 G 22068576.49 22068576.52 22068576.55 0.3683 0.3485

Jupiter 55709-09-17 02:53 G 22068613.48 22068613.62 22068613.77 0.0501 0.0304

Mars 55711-04-13 06:00 G 22069186.67 22069186.75 22069186.83 0.1718 0.1265

Jupiter 55715-02-21 13:55 G 22070596.97 22070597.08 22070597.18 0.0528 0.0299

Jupiter 55715-05-21 19:55 G 22070686.24 22070686.33 22070686.42 0.0526 0.0364

Moon 55716-02-07 10:05 G 22070947.83 22070947.92 22070948.01 0.2678 0.1511

Earth 55716-02-07 10:19 G 22070947.84 22070947.93 22070948.02 0.2673 0.1412 *

Moon 55718-08-12 06:43 G 22071864.66 22071864.78 22071864.90 0.2665 0.1625

Earth 55718-08-12 07:55 G 22071864.70 22071864.83 22071864.96 0.2660 0.1403 *

Neptune 55720-04-21 09:22 G 22072482.88 22072482.89 22072482.91 0.0088 0.0088

Neptune 55720-07-18 12:58 G 22072570.95 22072571.04 22072571.13 0.0088 0.0077

Neptune 55720-10-14 15:50 G 22072659.06 22072659.16 22072659.31 0.0088 0.0066

Neptune 55721-01-10 19:26 G 22072747.18 22072747.31 22072747.48 0.0088 0.0055

Neptune 55721-04-08 23:02 G 22072835.30 22072835.46 22072835.64 0.0088 0.0044

Jupiter 55721-07-06 00:43 G 22072923.35 22072923.53 22072923.71 0.0500 0.0100

Neptune 55721-07-06 02:24 G 22072923.44 22072923.60 22072923.80 0.0088 0.0034 *

Neptune 55721-10-02 06:14 G 22073011.58 22073011.76 22073011.95 0.0088 0.0022

Neptune 55721-12-29 09:50 G 22073099.72 22073099.91 22073100.10 0.0088 0.0011

Saturn 55722-03-23 15:36 G 22073184.09 22073184.15 22073184.24 0.0266 0.0239

Neptune 55722-03-27 13:12 G 22073187.86 22073188.05 22073188.25 0.0088 0.0002

Saturn 55722-06-20 12:00 G 22073272.82 22073273.00 22073273.19 0.0266 0.0060

Neptune 55722-06-23 16:48 G 22073276.01 22073276.20 22073276.39 0.0088 0.0012

Saturn 55722-09-17 08:24 G 22073361.69 22073361.85 22073362.02 0.0265 0.0121

Neptune 55722-09-19 20:10 G 22073364.16 22073364.34 22073364.54 0.0088 0.0023

Neptune 55722-12-16 23:46 G 22073452.32 22073452.49 22073452.68 0.0088 0.0034

Neptune 55723-03-15 03:22 G 22073540.48 22073540.64 22073540.81 0.0088 0.0045

Mars 55723-06-04 03:22 G 22073621.49 22073621.64 22073621.80 0.1799 0.0375

Neptune 55723-06-11 06:58 G 22073628.65 22073628.79 22073628.94 0.0088 0.0057

Venus 55723-06-12 18:43 G 22073630.14 22073630.28 22073630.42 0.3687 0.1612

Neptune 55723-09-07 10:05 G 22073716.82 22073716.92 22073717.07 0.0088 0.0069

Neptune 55723-12-04 13:41 G 22073805.01 22073805.07 22073805.18 0.0088 0.0080

Jupiter 55726-12-10 17:17 G 22074907.17 22074907.22 22074907.27 0.0529 0.0481

Jupiter 55727-03-09 23:46 G 22074996.37 22074996.49 22074996.61 0.0527 0.0191

Earth 55729-02-09 04:19 G 22075698.57 22075698.68 22075698.79 0.2671 0.0219

Moon 55729-02-09 04:34 G 22075698.58 22075698.69 22075698.80 0.2678 0.0107 *

Moon 55731-08-15 14:38 G 22076615.96 22076616.11 22076616.25 0.2668 0.1075

Earth 55731-08-15 14:38 G 22076615.96 22076616.11 22076616.25 0.2661 0.1033 *

Mars 55731-12-30 10:34 G 22076752.84 22076752.94 22076753.04 0.1730 0.0879

Uranus 55732-06-25 16:19 G 22076931.17 22076931.18 22076931.20 0.0138 0.0136

Uranus 55732-09-21 19:41 G 22077019.25 22077019.32 22077019.39 0.0138 0.0116

Mars 55732-10-24 02:38 G 22077051.52 22077051.61 22077051.70 0.1807 0.1468

Uranus 55732-12-18 23:02 G 22077107.37 22077107.46 22077107.56 0.0138 0.0096

Uranus 55733-03-17 02:10 G 22077195.49 22077195.59 22077195.71 0.0138 0.0076

Jupiter 55733-04-23 21:50 G 22077233.24 22077233.41 22077233.59 0.0499 0.0110

Uranus 55733-06-13 05:31 G 22077283.61 22077283.73 22077283.86 0.0138 0.0055

Uranus 55733-09-09 08:53 G 22077371.74 22077371.87 22077372.00 0.0139 0.0035

Uranus 55733-12-06 12:14 G 22077459.88 22077460.01 22077460.14 0.0139 0.0014

Uranus 55734-03-04 15:36 G 22077548.01 22077548.15 22077548.28 0.0139 0.0007

Uranus 55734-05-31 18:43 G 22077636.15 22077636.28 22077636.41 0.0139 0.0026

Uranus 55734-08-27 22:05 G 22077724.30 22077724.42 22077724.54 0.0139 0.0047

Uranus 55734-11-24 01:12 G 22077812.44 22077812.55 22077812.67 0.0139 0.0067

Uranus 55735-02-20 04:34 G 22077900.59 22077900.69 22077900.79 0.0139 0.0087

Uranus 55735-05-19 07:41 G 22077988.74 22077988.82 22077988.91 0.0139 0.0108

Uranus 55735-08-15 10:48 G 22078076.91 22078076.95 22078077.01 0.0139 0.0129

Saturn 55737-07-15 22:48 G 22078777.34 22078777.45 22078777.57 0.0294 0.0134

Saturn 55737-10-12 11:31 G 22078865.85 22078865.98 22078866.11 0.0295 0.0041

Saturn 55738-01-08 23:46 G 22078954.40 22078954.49 22078954.58 0.0295 0.0213

Jupiter 55738-12-27 03:50 G 22079306.54 22079306.66 22079306.79 0.0527 0.0033

Mars 55741-05-21 20:24 G 22080183.23 22080183.35 22080183.47 0.1724 0.0128

Earth 55742-02-11 22:05 G 22080449.32 22080449.42 22080449.52 0.2670 0.0978

Moon 55742-02-11 22:34 G 22080449.34 22080449.44 22080449.55 0.2672 0.1003 *

Jupiter 55745-02-09 18:14 G 22081543.13 22081543.26 22081543.39 0.0498 0.0333

Moon 55749-02-04 20:38 G 22082999.32 22082999.36 22082999.39 0.2678 0.2490

Earth 55749-02-04 21:07 G 22082999.34 22082999.38 22082999.43 0.2674 0.2399 *

Venus 55749-08-03 00:29 G 22083178.45 22083178.52 22083178.58 0.3684 0.2783

Mars 55750-10-12 06:00 G 22083613.66 22083613.75 22083613.84 0.1718 0.1116

Jupiter 55750-10-15 08:24 G 22083616.73 22083616.85 22083616.98 0.0528 0.0129

Saturn 55751-11-07 12:43 G 22084004.86 22084005.03 22084005.20 0.0266 0.0100

Saturn 55752-02-04 08:53 G 22084093.70 22084093.87 22084094.05 0.0266 0.0081

Saturn 55752-05-03 05:31 G 22084182.70 22084182.73 22084182.76 0.0265 0.0262

Earth 55755-02-14 15:36 G 22085200.09 22085200.15 22085200.22 0.2669 0.2138

Moon 55755-02-14 16:19 G 22085200.13 22085200.18 22085200.24 0.2667 0.2255 *

Venus 55755-02-16 15:36 G 22085202.05 22085202.15 22085202.25 0.3684 0.0372

Jupiter 55757-02-27 00:29 G 22085943.37 22085943.52 22085943.67 0.0501 0.0299

Venus 55760-09-01 06:43 G 22087225.69 22087225.78 22087225.86 0.3683 0.2008

Moon 55762-02-07 15:07 G 22087750.03 22087750.13 22087750.22 0.2679 0.1175

Earth 55762-02-07 15:07 G 22087750.03 22087750.13 22087750.23 0.2672 0.1183 *

Jupiter 55762-08-03 12:43 G 22087926.92 22087927.03 22087927.14 0.0529 0.0293

Jupiter 55762-10-31 18:58 G 22088016.20 22088016.29 22088016.38 0.0526 0.0371

Mars 55762-12-03 03:50 G 22088048.51 22088048.66 22088048.81 0.1799 0.0589

Moon 55764-08-12 13:26 G 22088666.92 22088667.06 22088667.20 0.2665 0.0996

Earth 55764-08-12 14:24 G 22088666.96 22088667.10 22088667.25 0.2660 0.0975 *

Saturn 55766-12-02 23:31 G 22089509.39 22089509.48 22089509.58 0.0294 0.0201

Saturn 55767-03-01 12:14 G 22089597.87 22089598.01 22089598.14 0.0295 0.0028

Saturn 55767-05-29 00:29 G 22089686.41 22089686.52 22089686.64 0.0295 0.0147

Jupiter 55768-12-15 22:19 G 22090253.25 22090253.43 22090253.61 0.0500 0.0095

Mars 55771-06-30 10:34 G 22091179.84 22091179.94 22091180.03 0.1730 0.1014

Mars 55772-04-24 03:22 G 22091478.52 22091478.64 22091478.75 0.1807 0.1231

Uranus 55773-04-17 13:41 G 22091836.97 22091837.07 22091837.19 0.0140 0.0113

Uranus 55773-07-14 21:22 G 22091925.25 22091925.39 22091925.56 0.0140 0.0083

Uranus 55773-10-11 05:31 G 22092013.55 22092013.73 22092013.91 0.0140 0.0052

Uranus 55774-01-07 13:12 G 22092101.86 22092102.05 22092102.24 0.0140 0.0022

Uranus 55774-04-05 21:07 G 22092190.19 22092190.38 22092190.57 0.0139 0.0009

Jupiter 55774-05-22 16:34 G 22092237.13 22092237.19 22092237.25 0.0529 0.0463

Uranus 55774-07-03 04:48 G 22092278.52 22092278.70 22092278.89 0.0139 0.0039

Jupiter 55774-08-19 23:02 G 22092326.34 22092326.46 22092326.58 0.0526 0.0208

Uranus 55774-09-29 12:43 G 22092366.87 22092367.03 22092367.20 0.0139 0.0069

Uranus 55774-12-26 20:24 G 22092455.23 22092455.35 22092455.50 0.0139 0.0100

Earth 55775-02-10 09:07 G 22092500.77 22092500.88 22092500.99 0.2671 0.0056

Moon 55775-02-10 09:22 G 22092500.78 22092500.89 22092501.00 0.2677 0.0053 *

Uranus 55775-03-25 04:19 G 22092543.63 22092543.68 22092543.76 0.0139 0.0130

Earth 55777-08-15 21:07 G 22093418.25 22093418.38 22093418.51 0.2662 0.1468

Moon 55777-08-15 21:22 G 22093418.26 22093418.39 22093418.52 0.2668 0.1429 *

Venus 55780-01-17 21:07 G 22094303.23 22094303.38 22094303.53 0.3687 0.1351

Jupiter 55780-10-03 20:10 G 22094563.16 22094563.34 22094563.52 0.0499 0.0105

Mars 55780-11-19 20:24 G 22094610.23 22094610.35 22094610.47 0.1724 0.0048

Saturn 55781-03-26 11:02 G 22094736.82 22094736.96 22094737.11 0.0266 0.0160

Saturn 55781-06-23 07:26 G 22094825.62 22094825.81 22094825.99 0.0266 0.0020

Saturn 55781-09-20 03:50 G 22094914.54 22094914.66 22094914.78 0.0265 0.0201

Jupiter 55786-06-08 02:38 G 22096636.48 22096636.61 22096636.74 0.0527 0.0035

Earth 55788-02-13 02:53 G 22097251.52 22097251.62 22097251.72 0.2670 0.1195

Moon 55788-02-13 03:36 G 22097251.55 22097251.65 22097251.74 0.2671 0.1346 *

Mars 55790-04-12 06:00 G 22098040.65 22098040.75 22098040.85 0.1718 0.0965

Jupiter 55792-07-22 17:46 G 22098873.10 22098873.24 22098873.38 0.0499 0.0309

Moon 55795-02-06 01:26 G 22099801.50 22099801.56 22099801.62 0.2678 0.2255

Earth 55795-02-06 01:55 G 22099801.52 22099801.58 22099801.65 0.2673 0.2172 *

Saturn 55796-04-21 01:55 G 22100241.51 22100241.58 22100241.66 0.0294 0.0245

Saturn 55796-07-18 14:38 G 22100329.98 22100330.11 22100330.24 0.0294 0.0070

Saturn 55796-10-15 03:07 G 22100418.51 22100418.63 22100418.75 0.0295 0.0103

Saturn 55797-01-11 15:22 G 22100507.10 22100507.14 22100507.19 0.0295 0.0276

Jupiter 55798-03-27 06:58 G 22100946.66 22100946.79 22100946.91 0.0528 0.0131

Neptune 55800-11-19 16:34 G 22101914.16 22101914.19 22101914.23 0.0089 0.0085

Neptune 55801-02-15 18:00 G 22102002.19 22102002.25 22102002.32 0.0089 0.0077

Earth 55801-02-15 20:24 G 22102002.31 22102002.35 22102002.40 0.2669 0.2360 *

Moon 55801-02-15 21:07 G 22102002.33 22102002.38 22102002.43 0.2666 0.2384 *

Neptune 55801-05-14 19:26 G 22102090.23 22102090.31 22102090.39 0.0089 0.0069

Neptune 55801-08-10 20:53 G 22102178.27 22102178.37 22102178.46 0.0089 0.0062

Neptune 55801-11-06 22:05 G 22102266.32 22102266.42 22102266.53 0.0089 0.0054

Neptune 55802-02-02 23:31 G 22102354.37 22102354.48 22102354.59 0.0089 0.0046

Neptune 55802-05-02 00:43 G 22102442.42 22102442.53 22102442.66 0.0089 0.0038

Mars 55802-06-04 04:19 G 22102475.54 22102475.68 22102475.82 0.1799 0.0824

Neptune 55802-07-29 02:10 G 22102530.47 22102530.59 22102530.72 0.0089 0.0030

Neptune 55802-10-25 03:36 G 22102618.52 22102618.65 22102618.78 0.0089 0.0022

Neptune 55803-01-21 04:48 G 22102706.57 22102706.70 22102706.84 0.0089 0.0014

Neptune 55803-04-19 06:14 G 22102794.63 22102794.76 22102794.90 0.0089 0.0006

Neptune 55803-07-16 07:41 G 22102882.69 22102882.82 22102882.95 0.0089 0.0002

Neptune 55803-10-12 08:53 G 22102970.74 22102970.87 22102971.01 0.0089 0.0010

Neptune 55804-01-08 10:19 G 22103058.80 22103058.93 22103059.06 0.0089 0.0017

Neptune 55804-04-05 11:31 G 22103146.86 22103146.98 22103147.11 0.0089 0.0026

Neptune 55804-07-02 12:58 G 22103234.92 22103235.04 22103235.16 0.0089 0.0033

Jupiter 55804-08-09 22:34 G 22103273.29 22103273.44 22103273.59 0.0500 0.0300

Neptune 55804-09-28 14:10 G 22103322.98 22103323.09 22103323.21 0.0089 0.0041

Neptune 55804-12-25 15:22 G 22103411.04 22103411.14 22103411.26 0.0089 0.0049

Neptune 55805-03-23 16:34 G 22103499.10 22103499.19 22103499.31 0.0089 0.0057

Neptune 55805-06-19 18:00 G 22103587.17 22103587.25 22103587.35 0.0089 0.0064

Neptune 55805-09-15 19:26 G 22103675.24 22103675.31 22103675.39 0.0089 0.0072

Neptune 55805-12-12 20:38 G 22103763.31 22103763.36 22103763.43 0.0089 0.0080

Venus 55806-03-10 21:50 G 22103851.32 22103851.41 22103851.49 0.3684 0.1889

Neptune 55806-03-10 22:05 G 22103851.40 22103851.42 22103851.44 0.0089 0.0087 *

Moon 55808-02-09 20:10 G 22104552.23 22104552.34 22104552.44 0.2679 0.0974

Earth 55808-02-09 19:55 G 22104552.23 22104552.33 22104552.44 0.2672 0.0959 *

Jupiter 55810-01-14 11:17 G 22105256.87 22105256.97 22105257.08 0.0529 0.0290

Jupiter 55810-04-13 17:31 G 22105346.15 22105346.23 22105346.32 0.0526 0.0376

Saturn 55810-08-14 11:46 G 22105468.87 22105468.99 22105469.11 0.0266 0.0200

Moon 55810-08-14 20:10 G 22105469.20 22105469.34 22105469.49 0.2666 0.0726

Earth 55810-08-14 20:53 G 22105469.22 22105469.37 22105469.53 0.2660 0.0547 *

Saturn 55810-11-11 07:55 G 22105557.64 22105557.83 22105558.01 0.0266 0.0022

Mars 55810-12-30 10:34 G 22105606.85 22105606.94 22105607.03 0.1730 0.1164

Saturn 55811-02-08 04:05 G 22105646.53 22105646.67 22105646.82 0.0266 0.0159

Venus 55811-09-24 12:58 G 22105874.94 22105875.04 22105875.14 0.3684 0.0534

Mars 55811-10-25 03:36 G 22105905.52 22105905.65 22105905.78 0.1806 0.1018

Jupiter 55816-05-28 20:10 G 22107583.16 22107583.34 22107583.52 0.0500 0.0095

Uranus 55816-07-16 23:31 G 22107632.45 22107632.48 22107632.52 0.0138 0.0132

Uranus 55816-10-13 02:53 G 22107720.55 22107720.62 22107720.70 0.0138 0.0111

Uranus 55817-01-09 06:14 G 22107808.66 22107808.76 22107808.86 0.0138 0.0091

Uranus 55817-04-07 09:36 G 22107896.79 22107896.90 22107897.01 0.0138 0.0070

Venus 55817-04-09 03:50 G 22107898.60 22107898.66 22107898.73 0.3683 0.2896

Uranus 55817-07-04 12:43 G 22107984.91 22107985.03 22107985.16 0.0139 0.0050

Uranus 55817-09-30 16:05 G 22108073.04 22108073.17 22108073.30 0.0139 0.0030

Uranus 55817-12-27 19:26 G 22108161.18 22108161.31 22108161.44 0.0139 0.0009

Uranus 55818-03-25 22:48 G 22108249.31 22108249.45 22108249.58 0.0139 0.0012

Uranus 55818-06-22 01:55 G 22108337.45 22108337.58 22108337.71 0.0139 0.0032

Uranus 55818-09-18 05:17 G 22108425.60 22108425.72 22108425.84 0.0139 0.0052

Uranus 55818-12-15 08:24 G 22108513.74 22108513.85 22108513.97 0.0139 0.0073

Uranus 55819-03-13 11:31 G 22108601.89 22108601.98 22108602.09 0.0139 0.0093

Uranus 55819-06-09 14:53 G 22108690.05 22108690.12 22108690.20 0.0139 0.0113

Uranus 55819-09-05 18:14 G 22108778.23 22108778.26 22108778.30 0.0139 0.0133

Mars 55820-05-21 20:24 G 22109037.23 22109037.35 22109037.47 0.1724 0.0173

Earth 55821-02-11 13:55 G 22109302.97 22109303.08 22109303.19 0.2671 0.0243

Moon 55821-02-11 14:24 G 22109302.99 22109303.10 22109303.21 0.2676 0.0351 *

Jupiter 55821-11-02 15:36 G 22109567.08 22109567.15 22109567.21 0.0529 0.0455

Jupiter 55822-01-30 22:05 G 22109656.30 22109656.42 22109656.53 0.0527 0.0217

Pluto 55822-07-21 18:00 G 22109828.23 22109828.25 22109828.29 0.0067 0.0065

Pluto 55822-10-17 18:43 G 22109916.20 22109916.28 22109916.36 0.0067 0.0054

Pluto 55823-01-13 19:26 G 22110004.20 22110004.31 22110004.41 0.0067 0.0044

Pluto 55823-04-11 19:41 G 22110092.21 22110092.32 22110092.45 0.0067 0.0033

Pluto 55823-07-08 20:24 G 22110180.23 22110180.35 22110180.49 0.0067 0.0022

Earth 55823-08-18 03:36 G 22110220.55 22110220.65 22110220.76 0.2662 0.1918

Moon 55823-08-18 04:05 G 22110220.57 22110220.67 22110220.76 0.2669 0.2049 *

Pluto 55823-10-04 21:07 G 22110268.25 22110268.38 22110268.52 0.0067 0.0011

Pluto 55823-12-31 21:50 G 22110356.27 22110356.41 22110356.55 0.0068 0.0001

Pluto 55824-03-28 22:19 G 22110444.30 22110444.43 22110444.57 0.0068 0.0011

Pluto 55824-06-24 23:02 G 22110532.33 22110532.46 22110532.59 0.0068 0.0022

Pluto 55824-09-20 23:31 G 22110620.36 22110620.48 22110620.61 0.0068 0.0033

Pluto 55824-12-18 00:00 G 22110708.41 22110708.50 22110708.62 0.0068 0.0044

Pluto 55825-03-16 00:43 G 22110796.46 22110796.53 22110796.62 0.0068 0.0055

Pluto 55825-06-12 01:26 G 22110884.54 22110884.56 22110884.59 0.0068 0.0067

Saturn 55825-12-06 15:07 G 22111062.02 22111062.13 22111062.25 0.0294 0.0139

Saturn 55826-03-05 03:36 G 22111150.52 22111150.65 22111150.78 0.0295 0.0034

Saturn 55826-06-01 15:50 G 22111239.07 22111239.16 22111239.26 0.0295 0.0207

Jupiter 55828-03-16 18:00 G 22111893.08 22111893.25 22111893.43 0.0499 0.0106

Mars 55829-10-12 06:00 G 22112467.64 22112467.75 22112467.85 0.1718 0.0828

Jupiter 55833-11-19 02:10 G 22113966.46 22113966.59 22113966.72 0.0527 0.0054

Earth 55834-02-14 07:41 G 22114053.73 22114053.82 22114053.91 0.2670 0.1419

Moon 55834-02-14 08:24 G 22114053.76 22114053.85 22114053.94 0.2670 0.1443 *

Saturn 55840-01-01 09:22 G 22116200.89 22116200.89 22116200.90 0.0266 0.0266

Jupiter 55840-01-03 16:05 G 22116203.03 22116203.17 22116203.32 0.0499 0.0302

Saturn 55840-03-30 05:31 G 22116289.56 22116289.73 22116289.91 0.0266 0.0088

Saturn 55840-06-27 01:55 G 22116378.41 22116378.58 22116378.75 0.0266 0.0093

Moon 55841-02-07 06:29 G 22116603.69 22116603.77 22116603.84 0.2678 0.1980

Earth 55841-02-07 06:58 G 22116603.71 22116603.79 22116603.86 0.2673 0.1937 *

Mars 55841-12-03 05:02 G 22116902.58 22116902.71 22116902.84 0.1799 0.1066

Earth 55843-08-12 21:22 G 22117520.34 22117520.39 22117520.45 0.2659 0.2475

Jupiter 55845-09-07 05:46 G 22118276.62 22118276.74 22118276.87 0.0528 0.0122

Earth 55847-02-17 01:12 G 22118804.53 22118804.55 22118804.58 0.2669 0.2575

Mars 55850-06-30 10:34 G 22120033.87 22120033.94 22120034.02 0.1730 0.1310

Mars 55851-04-25 04:05 G 22120332.53 22120332.67 22120332.81 0.1806 0.0797

Jupiter 55852-01-20 22:19 G 22120603.30 22120603.43 22120603.57 0.0501 0.0329

Moon 55854-02-10 00:58 G 22121354.43 22121354.54 22121354.65 0.2679 0.0722

Earth 55854-02-10 00:58 G 22121354.43 22121354.54 22121354.64 0.2672 0.0729 *

Saturn 55855-04-25 17:17 G 22121794.12 22121794.22 22121794.32 0.0294 0.0188

Saturn 55855-07-23 05:46 G 22121882.61 22121882.74 22121882.88 0.0295 0.0015

Saturn 55855-10-19 18:14 G 22121971.15 22121971.26 22121971.37 0.0295 0.0159

Moon 55856-08-15 03:07 G 22122271.48 22122271.63 22122271.79 0.2667 0.0080

Earth 55856-08-15 03:36 G 22122271.50 22122271.65 22122271.81 0.2660 0.0102 *

Uranus 55857-02-09 12:58 G 22122450.01 22122450.04 22122450.09 0.0140 0.0136

Venus 55857-04-01 03:50 G 22122500.62 22122500.66 22122500.70 0.3684 0.3398

Uranus 55857-05-08 20:38 G 22122538.25 22122538.36 22122538.49 0.0140 0.0106

Jupiter 55857-06-26 09:50 G 22122586.81 22122586.91 22122587.02 0.0529 0.0288

Uranus 55857-08-05 04:34 G 22122626.53 22122626.69 22122626.85 0.0140 0.0076

Jupiter 55857-09-23 16:05 G 22122676.09 22122676.17 22122676.26 0.0526 0.0378

Uranus 55857-11-01 12:14 G 22122714.83 22122715.01 22122715.20 0.0140 0.0046

Uranus 55858-01-28 20:10 G 22122803.15 22122803.34 22122803.53 0.0139 0.0015

Uranus 55858-04-27 03:50 G 22122891.47 22122891.66 22122891.86 0.0139 0.0016

Uranus 55858-07-24 11:46 G 22122979.81 22122979.99 22122980.18 0.0139 0.0045

Uranus 55858-10-20 19:26 G 22123068.16 22123068.31 22123068.48 0.0139 0.0076

Uranus 55859-01-17 03:22 G 22123156.52 22123156.64 22123156.77 0.0139 0.0106

Uranus 55859-04-15 11:17 G 22123244.94 22123244.97 22123245.01 0.0139 0.0137

Mars 55859-11-20 20:24 G 22123464.23 22123464.35 22123464.47 0.1724 0.0314

Venus 55862-10-15 18:58 G 22124524.20 22124524.29 22124524.39 0.3684 0.0988

Jupiter 55863-11-08 18:29 G 22124913.09 22124913.27 22124913.45 0.0500 0.0101

Earth 55867-02-12 18:43 G 22126105.17 22126105.28 22126105.39 0.2671 0.0465

Moon 55867-02-12 19:12 G 22126105.19 22126105.30 22126105.41 0.2675 0.0514 *

Venus 55868-04-30 10:05 G 22126547.83 22126547.92 22126548.02 0.3684 0.1409

Mars 55869-04-12 06:00 G 22126894.64 22126894.75 22126894.87 0.1718 0.0675

Jupiter 55869-04-14 14:10 G 22126897.03 22126897.09 22126897.16 0.0530 0.0450

Jupiter 55869-07-12 20:53 G 22126986.25 22126986.37 22126986.48 0.0527 0.0224

Saturn 55869-08-17 06:00 G 22127021.59 22127021.75 22127021.91 0.0266 0.0129

Earth 55869-08-18 10:19 G 22127022.86 22127022.93 22127023.00 0.2662 0.2363

Moon 55869-08-18 10:48 G 22127022.88 22127022.95 22127023.02 0.2669 0.2322 *

Saturn 55869-11-14 02:10 G 22127110.41 22127110.59 22127110.78 0.0266 0.0051

Saturn 55870-02-10 22:34 G 22127199.36 22127199.44 22127199.53 0.0266 0.0232

Jupiter 55875-08-27 16:19 G 22129223.00 22129223.18 22129223.36 0.0499 0.0101

Mars 55878-09-02 15:50 G 22130325.13 22130325.16 22130325.18 0.1712 0.1666

Earth 55880-02-15 12:29 G 22130855.93 22130856.02 22130856.10 0.2670 0.1639

Moon 55880-02-15 13:12 G 22130855.97 22130856.05 22130856.13 0.2670 0.1787 *

Jupiter 55881-05-01 01:12 G 22131296.42 22131296.55 22131296.68 0.0527 0.0065

Mars 55881-06-03 05:17 G 22131329.61 22131329.72 22131329.83 0.1799 0.1265

Saturn 55884-09-11 17:46 G 22132526.18 22132526.24 22132526.30 0.0294 0.0257

Saturn 55884-12-09 06:14 G 22132614.64 22132614.76 22132614.89 0.0294 0.0083

Neptune 55885-01-17 07:41 G 22132653.78 22132653.82 22132653.91 0.0088 0.0083

Saturn 55885-03-07 18:43 G 22132703.16 22132703.28 22132703.41 0.0295 0.0090

Neptune 55885-04-15 11:17 G 22132741.87 22132741.97 22132742.10 0.0088 0.0071

Saturn 55885-06-04 06:58 G 22132791.74 22132791.79 22132791.85 0.0295 0.0262

Neptune 55885-07-12 14:38 G 22132829.99 22132830.11 22132830.27 0.0088 0.0061

Neptune 55885-10-08 18:14 G 22132918.12 22132918.26 22132918.43 0.0088 0.0050

Neptune 55886-01-04 21:50 G 22133006.25 22133006.41 22133006.59 0.0088 0.0038

Neptune 55886-04-03 01:26 G 22133094.38 22133094.56 22133094.75 0.0088 0.0027

Neptune 55886-06-30 04:48 G 22133182.52 22133182.70 22133182.90 0.0088 0.0017

Neptune 55886-09-26 08:24 G 22133270.66 22133270.85 22133271.05 0.0088 0.0006

Neptune 55886-12-23 12:00 G 22133358.81 22133359.00 22133359.20 0.0088 0.0006

Moon 55887-02-08 11:31 G 22133405.90 22133405.98 22133406.06 0.2679 0.1801

Earth 55887-02-08 11:46 G 22133405.91 22133405.99 22133406.07 0.2673 0.1704 *

Neptune 55887-03-21 15:36 G 22133446.96 22133447.15 22133447.34 0.0088 0.0017

Jupiter 55887-06-15 14:24 G 22133532.96 22133533.10 22133533.24 0.0499 0.0299

Neptune 55887-06-17 18:58 G 22133535.11 22133535.29 22133535.48 0.0088 0.0029

Neptune 55887-09-13 22:19 G 22133623.27 22133623.43 22133623.62 0.0088 0.0040

Venus 55887-09-15 15:22 G 22133625.00 22133625.14 22133625.28 0.3687 0.1688

Neptune 55887-12-11 01:55 G 22133711.43 22133711.58 22133711.75 0.0088 0.0051

Neptune 55888-03-08 05:31 G 22133799.60 22133799.73 22133799.88 0.0088 0.0062

Neptune 55888-06-04 09:07 G 22133887.78 22133887.88 22133887.99 0.0088 0.0074

Neptune 55888-08-31 12:58 G 22133975.99 22133976.04 22133976.09 0.0088 0.0085

Moon 55889-08-13 02:24 G 22134322.52 22134322.60 22134322.69 0.2663 0.2160

Earth 55889-08-13 03:50 G 22134322.56 22134322.66 22134322.76 0.2659 0.2058 *

Mars 55889-12-29 10:34 G 22134460.88 22134460.94 22134461.00 0.1730 0.1444

Mars 55890-10-24 04:48 G 22134759.55 22134759.70 22134759.85 0.1806 0.0547

Jupiter 55893-02-17 05:17 G 22135606.60 22135606.72 22135606.85 0.0528 0.0101

Saturn 55899-01-04 03:07 G 22137753.52 22137753.63 22137753.76 0.0266 0.0200

Saturn 55899-04-02 23:31 G 22137842.29 22137842.48 22137842.66 0.0266 0.0020

Jupiter 55899-04-03 12:29 G 22137843.01 22137843.02 22137843.06 0.0498 0.0493

Mars 55899-05-21 20:24 G 22137891.24 22137891.35 22137891.47 0.1724 0.0462

Saturn 55899-06-30 19:55 G 22137931.18 22137931.33 22137931.48 0.0266 0.0161

Jupiter 55899-07-02 20:53 G 22137933.24 22137933.37 22137933.51 0.0501 0.0341

Earth 55900-02-11 05:46 G 22138156.63 22138156.74 22138156.85 0.2672 0.0499

Moon 55900-02-11 05:46 G 22138156.64 22138156.74 22138156.85 0.2679 0.0476 *

Uranus 55900-08-07 06:29 G 22138333.73 22138333.77 22138333.83 0.0138 0.0128

Uranus 55900-11-03 10:05 G 22138421.84 22138421.92 22138422.00 0.0138 0.0107

Uranus 55901-01-30 13:12 G 22138509.95 22138510.05 22138510.16 0.0138 0.0087

Uranus 55901-04-28 16:34 G 22138598.08 22138598.19 22138598.31 0.0138 0.0066

Uranus 55901-07-25 19:55 G 22138686.21 22138686.33 22138686.46 0.0139 0.0046

Uranus 55901-10-21 23:17 G 22138774.34 22138774.47 22138774.60 0.0139 0.0025

Uranus 55902-01-18 02:38 G 22138862.47 22138862.61 22138862.74 0.0139 0.0007

Uranus 55902-04-16 05:46 G 22138950.61 22138950.74 22138950.87 0.0139 0.0016

Uranus 55902-07-13 09:07 G 22139038.75 22139038.88 22139039.01 0.0139 0.0036

Moon 55902-08-17 10:05 G 22139073.76 22139073.92 22139074.07 0.2668 0.0239

Earth 55902-08-17 10:19 G 22139073.77 22139073.93 22139074.08 0.2661 0.0349 *

Uranus 55902-10-09 12:14 G 22139126.90 22139127.01 22139127.14 0.0139 0.0057

Uranus 55903-01-05 15:36 G 22139215.04 22139215.15 22139215.26 0.0139 0.0077

Uranus 55903-04-03 18:43 G 22139303.20 22139303.28 22139303.38 0.0139 0.0098

Uranus 55903-06-30 21:50 G 22139391.36 22139391.41 22139391.49 0.0139 0.0119

Uranus 55903-09-27 01:12 G 22139479.55 22139479.55 22139479.57 0.0139 0.0138

Jupiter 55904-12-07 09:07 G 22139916.77 22139916.88 22139916.99 0.0529 0.0275

Jupiter 55905-03-06 15:22 G 22140006.05 22140006.14 22140006.22 0.0526 0.0389

Mars 55908-10-12 06:00 G 22141321.64 22141321.75 22141321.87 0.1718 0.0532

Pluto 55909-08-07 00:29 G 22141620.42 22141620.52 22141620.64 0.0077 0.0061

Pluto 55909-11-03 02:38 G 22141708.47 22141708.61 22141708.78 0.0077 0.0039

Pluto 55910-01-30 05:02 G 22141796.54 22141796.71 22141796.89 0.0077 0.0018

Pluto 55910-04-28 07:26 G 22141884.63 22141884.81 22141884.99 0.0077 0.0003

Pluto 55910-07-25 09:22 G 22141972.73 22141972.89 22141973.07 0.0077 0.0025

Pluto 55910-10-21 11:31 G 22142060.85 22142060.98 22142061.14 0.0077 0.0046

Pluto 55911-01-17 13:41 G 22142149.00 22142149.07 22142149.18 0.0076 0.0066

Jupiter 55911-04-21 18:29 G 22142243.10 22142243.27 22142243.45 0.0500 0.0132

Earth 55913-02-13 23:31 G 22142907.37 22142907.48 22142907.59 0.2671 0.0690

Moon 55913-02-14 00:14 G 22142907.40 22142907.51 22142907.61 0.2674 0.0774 *

Venus 55913-11-07 01:12 G 22143173.48 22143173.55 22143173.62 0.3684 0.2504

Saturn 55914-04-29 08:10 G 22143346.72 22143346.84 22143346.96 0.0294 0.0136

Saturn 55914-07-26 20:38 G 22143435.23 22143435.36 22143435.49 0.0295 0.0038

Saturn 55914-10-23 09:07 G 22143523.78 22143523.88 22143523.97 0.0295 0.0210

Jupiter 55916-09-25 12:58 G 22144226.98 22144227.04 22144227.11 0.0530 0.0443

Jupiter 55916-12-23 19:41 G 22144316.20 22144316.32 22144316.43 0.0527 0.0230

Mars 55918-03-04 15:50 G 22144752.11 22144752.16 22144752.21 0.1712 0.1513

Venus 55919-05-23 16:19 G 22145197.08 22145197.18 22145197.28 0.3684 0.0100

Mars 55920-12-03 06:00 G 22145756.67 22145756.75 22145756.84 0.1799 0.1511

Jupiter 55923-02-07 14:53 G 22146552.94 22146553.12 22146553.30 0.0499 0.0092

Venus 55924-12-06 07:26 G 22147220.73 22147220.81 22147220.89 0.3684 0.2279

Earth 55926-02-16 17:17 G 22147658.14 22147658.22 22147658.30 0.2669 0.1858

Moon 55926-02-16 18:00 G 22147658.17 22147658.25 22147658.32 0.2669 0.1896 *

Saturn 55928-05-24 03:36 G 22148485.58 22148485.65 22148485.73 0.0267 0.0242

Saturn 55928-08-20 23:46 G 22148574.31 22148574.49 22148574.67 0.0266 0.0063

Jupiter 55928-10-12 00:00 G 22148626.38 22148626.50 22148626.63 0.0528 0.0073

Saturn 55928-11-17 19:55 G 22148663.17 22148663.33 22148663.50 0.0266 0.0118

Mars 55929-06-30 10:34 G 22148887.90 22148887.94 22148887.99 0.1730 0.1592

Mars 55930-04-25 05:02 G 22149186.56 22149186.71 22149186.87 0.1806 0.0350

Moon 55933-02-09 16:19 G 22150208.09 22150208.18 22150208.28 0.2680 0.1448

Earth 55933-02-09 16:34 G 22150208.10 22150208.19 22150208.29 0.2673 0.1475 *

Jupiter 55934-11-26 12:43 G 22150862.89 22150863.03 22150863.18 0.0498 0.0292

Moon 55935-08-15 09:22 G 22151124.77 22151124.89 22151125.00 0.2664 0.1746

Earth 55935-08-15 10:19 G 22151124.81 22151124.93 22151125.05 0.2659 0.1629 *

Mars 55938-11-20 20:24 G 22152318.24 22152318.35 22152318.46 0.1724 0.0602

Jupiter 55940-07-31 04:34 G 22152936.56 22152936.69 22152936.81 0.0528 0.0089

Uranus 55941-03-02 20:10 G 22153151.27 22153151.34 22153151.42 0.0140 0.0128

Uranus 55941-05-30 04:05 G 22153239.53 22153239.67 22153239.80 0.0140 0.0098

Uranus 55941-08-26 11:46 G 22153327.82 22153327.99 22153328.16 0.0140 0.0068

Uranus 55941-11-22 19:26 G 22153416.13 22153416.31 22153416.50 0.0140 0.0038

Uranus 55942-02-19 03:22 G 22153504.45 22153504.64 22153504.83 0.0139 0.0008

Uranus 55942-05-18 11:02 G 22153592.77 22153592.96 22153593.16 0.0139 0.0023

Uranus 55942-08-14 18:43 G 22153681.11 22153681.28 22153681.47 0.0139 0.0054

Uranus 55942-11-11 02:38 G 22153769.46 22153769.61 22153769.77 0.0139 0.0084

Uranus 55943-02-07 10:19 G 22153857.84 22153857.93 22153858.06 0.0139 0.0114

Saturn 55943-09-16 08:38 G 22154078.77 22154078.86 22154078.96 0.0294 0.0203

Saturn 55943-12-13 21:07 G 22154167.25 22154167.38 22154167.52 0.0294 0.0031

Saturn 55944-03-11 09:36 G 22154255.79 22154255.90 22154256.02 0.0295 0.0143

Venus 55944-04-22 17:46 G 22154298.09 22154298.24 22154298.39 0.3687 0.1271

Earth 55946-02-12 10:34 G 22154958.83 22154958.94 22154959.05 0.2672 0.0269

Moon 55946-02-12 10:48 G 22154958.84 22154958.95 22154959.06 0.2678 0.0277 *

Jupiter 55946-09-14 10:48 G 22155172.93 22155172.95 22155173.00 0.0498 0.0487

Jupiter 55946-12-13 19:12 G 22155263.17 22155263.30 22155263.44 0.0501 0.0344

Mars 55948-04-12 06:00 G 22155748.64 22155748.75 22155748.87 0.1718 0.0392

Moon 55948-08-17 16:34 G 22155876.04 22155876.19 22155876.34 0.2668 0.0827

Earth 55948-08-17 16:48 G 22155876.05 22155876.20 22155876.35 0.2661 0.0774 *

Jupiter 55952-05-19 08:38 G 22157246.75 22157246.86 22157246.97 0.0529 0.0253

Jupiter 55952-08-16 14:53 G 22157336.04 22157336.12 22157336.20 0.0526 0.0411

Mars 55957-09-02 15:50 G 22159179.09 22159179.16 22159179.23 0.1712 0.1365

Saturn 55958-01-07 20:38 G 22159306.21 22159306.36 22159306.52 0.0266 0.0136

Saturn 55958-04-06 17:02 G 22159395.02 22159395.21 22159395.39 0.0266 0.0045

Saturn 55958-07-04 13:12 G 22159483.96 22159484.05 22159484.16 0.0266 0.0227

Jupiter 55958-10-01 17:17 G 22159573.04 22159573.22 22159573.39 0.0500 0.0144

Earth 55959-02-15 04:19 G 22159709.58 22159709.68 22159709.78 0.2671 0.0912

Moon 55959-02-15 05:02 G 22159709.61 22159709.71 22159709.81 0.2673 0.1008 *

Mars 55960-06-03 06:29 G 22160183.74 22160183.77 22160183.81 0.1799 0.1738

Jupiter 55964-03-07 12:14 G 22161556.94 22161557.01 22161557.08 0.0529 0.0429

Jupiter 55964-06-04 18:43 G 22161646.17 22161646.28 22161646.39 0.0527 0.0242

Neptune 55965-08-17 16:19 G 22162085.14 22162085.18 22162085.24 0.0089 0.0082

Neptune 55965-11-13 17:46 G 22162173.17 22162173.24 22162173.32 0.0089 0.0073

Moon 55966-02-08 02:53 G 22162259.58 22162259.62 22162259.66 0.2677 0.2486

Earth 55966-02-08 03:22 G 22162259.60 22162259.64 22162259.68 0.2674 0.2466 *

Neptune 55966-02-09 19:12 G 22162261.21 22162261.30 22162261.39 0.0089 0.0065

Neptune 55966-05-08 20:38 G 22162349.26 22162349.36 22162349.46 0.0089 0.0057

Neptune 55966-08-04 22:05 G 22162437.31 22162437.42 22162437.53 0.0089 0.0050

Neptune 55966-10-31 23:17 G 22162525.36 22162525.47 22162525.59 0.0089 0.0042

Neptune 55967-01-28 00:29 G 22162613.41 22162613.52 22162613.65 0.0089 0.0034

Neptune 55967-04-26 01:55 G 22162701.46 22162701.58 22162701.72 0.0089 0.0026

Neptune 55967-07-23 03:22 G 22162789.51 22162789.64 22162789.78 0.0089 0.0018

Neptune 55967-10-19 04:48 G 22162877.57 22162877.70 22162877.83 0.0089 0.0010

Neptune 55968-01-15 06:14 G 22162965.62 22162965.76 22162965.89 0.0089 0.0003

Neptune 55968-04-12 07:26 G 22163053.68 22163053.81 22163053.95 0.0089 0.0006

Neptune 55968-07-09 08:53 G 22163141.74 22163141.87 22163142.00 0.0089 0.0014

Neptune 55968-10-05 10:05 G 22163229.80 22163229.92 22163230.05 0.0089 0.0022

Neptune 55969-01-01 11:31 G 22163317.85 22163317.98 22163318.11 0.0089 0.0029

Neptune 55969-03-30 12:43 G 22163405.91 22163406.03 22163406.16 0.0089 0.0037

Neptune 55969-06-26 13:55 G 22163493.98 22163494.08 22163494.20 0.0089 0.0045

Neptune 55969-09-22 15:22 G 22163582.04 22163582.14 22163582.25 0.0089 0.0053

Mars 55969-10-24 05:46 G 22163613.58 22163613.74 22163613.90 0.1806 0.0112

Neptune 55969-12-19 16:34 G 22163670.10 22163670.19 22163670.30 0.0089 0.0061

Neptune 55970-03-17 18:00 G 22163758.17 22163758.25 22163758.34 0.0089 0.0068

Neptune 55970-06-13 19:12 G 22163846.24 22163846.30 22163846.38 0.0089 0.0076

Venus 55970-06-13 22:34 G 22163846.35 22163846.44 22163846.53 0.3684 0.1612 *

Jupiter 55970-07-20 14:53 G 22163882.94 22163883.12 22163883.30 0.0499 0.0061

Neptune 55970-09-09 20:24 G 22163934.32 22163934.35 22163934.41 0.0089 0.0084

Earth 55972-02-17 22:05 G 22164460.35 22164460.42 22164460.49 0.2669 0.2077

Moon 55972-02-17 22:48 G 22164460.38 22164460.45 22164460.51 0.2667 0.2170 *

Saturn 55973-02-02 10:19 G 22164810.87 22164810.93 22164810.99 0.0294 0.0258

Saturn 55973-05-01 22:48 G 22164899.33 22164899.45 22164899.58 0.0294 0.0085

Saturn 55973-07-29 11:17 G 22164987.85 22164987.97 22164988.10 0.0295 0.0089

Saturn 55973-10-25 23:46 G 22165076.43 22165076.49 22165076.55 0.0295 0.0260

Venus 55975-12-28 13:41 G 22165869.97 22165870.07 22165870.16 0.3684 0.0795

Jupiter 55976-03-23 23:02 G 22165956.33 22165956.46 22165956.58 0.0528 0.0082

Mars 55978-05-21 20:24 G 22166745.24 22166745.35 22166745.46 0.1724 0.0747

Moon 55979-02-10 21:22 G 22167010.29 22167010.39 22167010.48 0.2680 0.1336

Earth 55979-02-10 21:36 G 22167010.30 22167010.40 22167010.49 0.2673 0.1243 *

Venus 55981-07-13 04:48 G 22167893.65 22167893.70 22167893.75 0.3683 0.3168

Moon 55981-08-15 16:05 G 22167927.04 22167927.17 22167927.30 0.2666 0.1334

Earth 55981-08-15 16:48 G 22167927.06 22167927.20 22167927.34 0.2660 0.1207 *

Jupiter 55982-05-08 11:31 G 22168192.83 22168192.98 22168193.13 0.0498 0.0280

Uranus 55984-08-27 13:26 G 22169035.01 22169035.06 22169035.13 0.0138 0.0124

Uranus 55984-11-23 17:02 G 22169123.12 22169123.21 22169123.30 0.0138 0.0103

Uranus 55985-02-19 20:10 G 22169211.24 22169211.34 22169211.45 0.0138 0.0083

Uranus 55985-05-18 23:46 G 22169299.37 22169299.49 22169299.61 0.0138 0.0062

Uranus 55985-08-15 02:53 G 22169387.50 22169387.62 22169387.75 0.0139 0.0042

Uranus 55985-11-11 06:14 G 22169475.63 22169475.76 22169475.89 0.0139 0.0021

Uranus 55986-02-07 09:36 G 22169563.77 22169563.90 22169564.03 0.0139 0.0002

Uranus 55986-05-06 12:43 G 22169651.90 22169652.03 22169652.17 0.0139 0.0021

Uranus 55986-08-02 16:05 G 22169740.05 22169740.17 22169740.30 0.0139 0.0040

Uranus 55986-10-29 19:12 G 22169828.19 22169828.30 22169828.43 0.0139 0.0061

Uranus 55987-01-25 22:34 G 22169916.34 22169916.44 22169916.55 0.0139 0.0081

Uranus 55987-04-24 01:55 G 22170004.49 22170004.58 22170004.67 0.0139 0.0102

Saturn 55987-05-27 20:53 G 22170038.24 22170038.37 22170038.51 0.0267 0.0179

Uranus 55987-07-21 05:02 G 22170092.66 22170092.71 22170092.78 0.0139 0.0122

Saturn 55987-08-24 17:02 G 22170127.03 22170127.21 22170127.40 0.0266 0.0005

Mars 55987-10-12 06:14 G 22170175.64 22170175.76 22170175.88 0.1718 0.0245

Saturn 55987-11-21 13:26 G 22170215.93 22170216.06 22170216.20 0.0266 0.0183

Jupiter 55988-01-11 03:22 G 22170266.51 22170266.64 22170266.76 0.0529 0.0083

Earth 55992-02-13 15:22 G 22171761.03 22171761.14 22171761.25 0.2672 0.0067

Moon 55992-02-13 15:50 G 22171761.05 22171761.16 22171761.27 0.2677 0.0068 *

Jupiter 55994-02-24 09:36 G 22172502.85 22172502.90 22172502.95 0.0498 0.0476

Jupiter 55994-05-25 17:46 G 22172593.11 22172593.24 22172593.37 0.0500 0.0353

Earth 55994-08-18 23:17 G 22172678.33 22172678.47 22172678.61 0.2661 0.1218

Moon 55994-08-18 23:31 G 22172678.34 22172678.48 22172678.61 0.2668 0.1187 *

Mars 55997-03-03 15:50 G 22173606.08 22173606.16 22173606.24 0.1712 0.1224

Jupiter 55999-10-30 07:41 G 22174576.70 22174576.82 22174576.93 0.0529 0.0243

Jupiter 56000-01-27 13:55 G 22174666.01 22174666.08 22174666.15 0.0526 0.0422

57TH MILLENNIUM CE

This is a list of transits of Mercury in the 57th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	**56002-09-18 23:46**	**G**	**22175631.38**	**22175631.49**	**22175631.60**	**0.0293**	**0.0148**	
Saturn	**56002-12-16 12:14**	**G**	**22175719.88**	**22175720.01**	**22175720.14**	**0.0294**	**0.0025**	
Saturn	**56003-03-15 00:29**	**G**	**22175808.43**	**22175808.52**	**22175808.62**	**0.0294**	**0.0196**	
Earth	**56005-02-15 09:07**	**G**	**22176511.78**	**22176511.88**	**22176511.98**	**0.2670**	**0.1139**	
Moon	**56005-02-15 09:50**	**G**	**22176511.81**	**22176511.91**	**22176512.01**	**0.2673**	**0.1198**	*
Jupiter	**56006-03-13 15:36**	**G**	**22176902.97**	**22176903.15**	**22176903.32**	**0.0500**	**0.0149**	
Mars	**56009-04-24 06:29**	**G**	**22178040.61**	**22178040.77**	**22178040.92**	**0.1806**	**0.0136**	
Jupiter	**56011-08-18 11:46**	**G**	**22178886.91**	**22178886.99**	**22178887.07**	**0.0530**	**0.0408**	
Jupiter	**56011-11-15 18:14**	**G**	**22178976.15**	**22178976.26**	**22178976.37**	**0.0527**	**0.0264**	
Moon	**56012-02-09 07:55**	**G**	**22179061.78**	**22179061.83**	**22179061.88**	**0.2679**	**0.2344**	
Earth	**56012-02-09 08:24**	**G**	**22179061.79**	**22179061.85**	**22179061.91**	**0.2674**	**0.2231**	*
Saturn	**56016-10-13 17:46**	**G**	**22180770.19**	**22180770.24**	**22180770.30**	**0.0267**	**0.0252**	
Saturn	**56017-01-10 13:55**	**G**	**22180858.91**	**22180859.08**	**22180859.26**	**0.0266**	**0.0073**	
Saturn	**56017-04-09 10:19**	**G**	**22180947.76**	**22180947.93**	**22180948.10**	**0.0266**	**0.0108**	
Mars	**56017-11-19 20:24**	**G**	**22181172.25**	**22181172.35**	**22181172.45**	**0.1724**	**0.0891**	
Jupiter	**56017-12-30 13:41**	**G**	**22181212.89**	**22181213.07**	**22181213.25**	**0.0499**	**0.0050**	
Earth	**56018-02-18 02:53**	**G**	**22181262.57**	**22181262.62**	**22181262.68**	**0.2669**	**0.2296**	
Moon	**56018-02-18 03:36**	**G**	**22181262.60**	**22181262.65**	**22181262.69**	**0.2665**	**0.2366**	*
Mars	**56018-09-14 05:31**	**G**	**22181470.69**	**22181470.73**	**22181470.77**	**0.1813**	**0.1734**	

Venus 56021-07-05 04:34 G 22182495.64 22182495.69 22182495.74 0.3684 0.3132

Jupiter 56023-09-03 22:05 G 22183286.30 22183286.42 22183286.55 0.0527 0.0094

Moon 56025-02-11 02:10 G 22183812.49 22183812.59 22183812.70 0.2679 0.0974

Earth 56025-02-11 02:24 G 22183812.50 22183812.60 22183812.70 0.2673 0.1015 *

Uranus 56025-03-23 02:53 G 22183852.54 22183852.62 22183852.72 0.0140 0.0122

Uranus 56025-06-19 10:34 G 22183940.81 22183940.94 22183941.10 0.0140 0.0092

Uranus 56025-09-15 18:29 G 22184029.10 22184029.27 22184029.45 0.0140 0.0062

Uranus 56025-12-13 02:10 G 22184117.41 22184117.59 22184117.79 0.0139 0.0032

Uranus 56026-03-11 10:05 G 22184205.73 22184205.92 22184206.12 0.0139 0.0003

Uranus 56026-06-07 18:00 G 22184294.06 22184294.25 22184294.44 0.0139 0.0029

Uranus 56026-09-04 01:55 G 22184382.40 22184382.58 22184382.75 0.0139 0.0060

Uranus 56026-12-01 09:22 G 22184470.76 22184470.89 22184471.05 0.0139 0.0090

Venus 56027-01-18 19:41 G 22184519.22 22184519.32 22184519.42 0.3684 0.0729

Uranus 56027-02-27 17:31 G 22184559.14 22184559.23 22184559.33 0.0139 0.0120

Mars 56027-04-12 06:14 G 22184602.64 22184602.76 22184602.88 0.1718 0.0095

Moon 56027-08-16 22:34 G 22184729.30 22184729.44 22184729.59 0.2666 0.0795

Earth 56027-08-16 23:17 G 22184729.33 22184729.47 22184729.62 0.2660 0.0779 *

Jupiter 56029-10-18 11:31 G 22185522.82 22185522.98 22185523.14 0.0499 0.0251

Saturn 56032-02-06 01:12 G 22186363.46 22186363.55 22186363.64 0.0294 0.0205

Saturn 56032-05-04 13:41 G 22186451.94 22186452.07 22186452.20 0.0294 0.0032

Saturn 56032-08-01 02:10 G 22186540.47 22186540.59 22186540.70 0.0294 0.0140

Venus 56032-08-03 10:48 G 22186542.86 22186542.95 22186543.04 0.3683 0.1675

Jupiter 56035-06-23 02:10 G 22187596.47 22187596.59 22187596.72 0.0528 0.0073

Mars 56036-09-01 15:50 G 22188033.07 22188033.16 22188033.26 0.1712 0.1077

Earth 56038-02-13 20:10 G 22188563.23 22188563.34 22188563.45 0.2671 0.0193

Moon 56038-02-13 20:38 G 22188563.25 22188563.36 22188563.47 0.2676 0.0208 *

Earth 56040-08-19 06:00 G 22189480.63 22189480.75 22189480.87 0.2661 0.1654

Moon 56040-08-19 06:29 G 22189480.65 22189480.77 22189480.88 0.2667 0.1705 *

Jupiter 56041-08-06 08:24 G 22189832.79 22189832.85 22189832.92 0.0497 0.0464

Jupiter 56041-11-04 16:34 G 22189923.07 22189923.19 22189923.32 0.0500 0.0365

Saturn 56046-05-30 14:10 G 22191590.93 22191591.09 22191591.26 0.0267 0.0116

Saturn 56046-08-27 10:34 G 22191679.76 22191679.94 22191680.12 0.0267 0.0065

Saturn 56046-11-24 06:58 G 22191768.73 22191768.79 22191768.86 0.0266 0.0247

Jupiter 56047-04-11 06:14 G 22191906.65 22191906.76 22191906.88 0.0530 0.0239

Jupiter 56047-07-09 12:43 G 22191995.96 22191996.03 22191996.10 0.0527 0.0428

Mars 56048-10-23 06:43 G 22192467.62 22192467.78 22192467.93 0.1806 0.0332

Neptune 56049-07-19 03:36 G 22192736.62 22192736.65 22192736.69 0.0088 0.0087

Neptune 56049-10-15 07:12 G 22192824.70 22192824.80 22192824.89 0.0088 0.0076

Neptune 56050-01-11 10:05 G 22192912.81 22192912.92 22192913.07 0.0088 0.0066

Neptune 56050-04-09 13:41 G 22193000.93 22193001.07 22193001.24 0.0088 0.0054

Neptune 56050-07-06 17:02 G 22193089.06 22193089.21 22193089.40 0.0088 0.0044

Neptune 56050-10-02 20:38 G 22193177.19 22193177.36 22193177.55 0.0088 0.0033

Neptune 56050-12-30 00:14 G 22193265.33 22193265.51 22193265.71 0.0088 0.0021

Earth 56051-02-16 13:55 G 22193313.99 22193314.08 22193314.18 0.2670 0.1365

Moon 56051-02-16 14:38 G 22193314.02 22193314.11 22193314.20 0.2671 0.1487 *

Neptune 56051-03-28 03:50 G 22193353.47 22193353.66 22193353.86 0.0088 0.0010

Neptune 56051-06-24 07:26 G 22193441.62 22193441.81 22193442.00 0.0088 0.0001

Neptune 56051-09-20 10:48 G 22193529.77 22193529.95 22193530.15 0.0088 0.0013

Neptune 56051-12-17 14:24 G 22193617.92 22193618.10 22193618.29 0.0088 0.0024

Venus 56051-12-19 12:00 G 22193619.86 22193620.00 22193620.14 0.3687 0.1777

Neptune 56052-03-14 18:00 G 22193706.07 22193706.25 22193706.43 0.0088 0.0035

Neptune 56052-06-10 21:07 G 22193794.23 22193794.38 22193794.56 0.0088 0.0047

Neptune 56052-09-07 00:43 G 22193882.40 22193882.53 22193882.69 0.0088 0.0058

Neptune 56052-12-04 04:19 G 22193970.57 22193970.68 22193970.81 0.0088 0.0069

Neptune 56053-03-02 08:10 G 22194058.76 22194058.84 22194058.92 0.0088 0.0080

Jupiter 56053-08-23 14:10 G 22194232.92 22194233.09 22194233.27 0.0499 0.0159

Mars 56057-05-20 20:24 G 22195599.26 22195599.35 22195599.45 0.1724 0.1032

Moon 56058-02-09 12:43 G 22195863.96 22195864.03 22195864.10 0.2680 0.2034

Earth 56058-02-09 13:12 G 22195863.98 22195864.05 22195864.12 0.2674 0.1999 *

Mars 56058-03-15 06:00 G 22195897.67 22195897.75 22195897.83 0.1814 0.1517

Jupiter 56059-01-28 10:34 G 22196216.86 22196216.94 22196217.03 0.0530 0.0402

Jupiter 56059-04-27 17:17 G 22196306.11 22196306.22 22196306.33 0.0527 0.0273

Saturn 56061-06-25 02:24 G 22197095.55 22197095.60 22197095.66 0.0293 0.0263

Saturn 56061-09-21 14:53 G 22197184.00 22197184.12 22197184.25 0.0293 0.0091

Saturn 56061-12-19 03:22 G 22197272.52 22197272.64 22197272.77 0.0294 0.0081

Saturn 56062-03-17 15:36 G 22197361.09 22197361.15 22197361.22 0.0294 0.0252

Earth 56064-02-19 07:41 G 22198064.79 22198064.82 22198064.86 0.2669 0.2518

Moon 56064-02-19 08:24 G 22198064.82 22198064.85 22198064.87 0.2665 0.2562 *

Jupiter 56065-06-11 12:00 G 22198542.82 22198543.00 22198543.18 0.0499 0.0045

Mars 56066-10-11 06:14 G 22199029.64 22199029.76 22199029.88 0.1718 0.0062

Pluto 56068-06-17 09:07 G 22199644.83 22199644.88 22199644.95 0.0067 0.0060

Pluto 56068-09-13 09:50 G 22199732.83 22199732.91 22199733.01 0.0067 0.0049

Uranus 56068-09-16 20:24 G 22199736.30 22199736.35 22199736.43 0.0138 0.0120

Pluto 56068-12-10 10:34 G 22199820.83 22199820.94 22199821.06 0.0067 0.0039

Uranus 56068-12-14 00:00 G 22199824.41 22199824.50 22199824.59 0.0138 0.0099

Pluto 56069-03-08 11:17 G 22199908.84 22199908.97 22199909.10 0.0067 0.0028

Uranus 56069-03-12 03:07 G 22199912.53 22199912.63 22199912.75 0.0138 0.0079

Pluto 56069-06-04 11:46 G 22199996.86 22199996.99 22199997.13 0.0067 0.0017

Uranus 56069-06-08 06:43 G 22200000.66 22200000.78 22200000.90 0.0138 0.0058

Pluto 56069-08-31 12:29 G 22200084.88 22200085.02 22200085.16 0.0068 0.0006

Uranus 56069-09-04 09:50 G 22200088.79 22200088.91 22200089.04 0.0139 0.0038

Pluto 56069-11-27 12:58 G 22200172.91 22200173.04 22200173.19 0.0068 0.0006

Uranus 56069-12-01 13:12 G 22200176.92 22200177.05 22200177.18 0.0139 0.0017

Pluto 56070-02-23 13:41 G 22200260.94 22200261.07 22200261.21 0.0068 0.0016

Uranus 56070-02-27 16:34 G 22200265.06 22200265.19 22200265.32 0.0139 0.0004

Pluto 56070-05-22 14:24 G 22200348.97 22200349.10 22200349.22 0.0068 0.0027

Uranus 56070-05-26 19:41 G 22200353.20 22200353.32 22200353.46 0.0139 0.0025

Pluto 56070-08-18 14:53 G 22200437.01 22200437.12 22200437.24 0.0068 0.0038

Uranus 56070-08-22 23:02 G 22200441.34 22200441.46 22200441.59 0.0139 0.0045

Pluto 56070-11-14 15:36 G 22200525.05 22200525.15 22200525.24 0.0068 0.0049

Uranus 56070-11-19 02:24 G 22200529.48 22200529.60 22200529.72 0.0139 0.0065

Pluto 56071-02-10 15:50 G 22200613.11 22200613.16 22200613.24 0.0068 0.0061

Earth 56071-02-12 07:12 G 22200614.69 22200614.80 22200614.91 0.2673 0.0787

Moon 56071-02-12 07:12 G 22200614.70 22200614.80 22200614.91 0.2679 0.0835 *

Jupiter 56071-02-13 21:36 G 22200616.27 22200616.40 22200616.52 0.0528 0.0113

Uranus 56071-02-15 05:46 G 22200617.63 22200617.74 22200617.84 0.0139 0.0085

Uranus 56071-05-14 08:38 G 22200705.79 22200705.86 22200705.96 0.0139 0.0107

Uranus 56071-08-10 12:00 G 22200793.96 22200794.00 22200794.06 0.0139 0.0126

Moon 56073-08-17 05:17 G 22201531.57 22201531.72 22201531.87 0.2666 0.0490

Earth 56073-08-17 06:00 G 22201531.59 22201531.75 22201531.90 0.2660 0.0347 *

Saturn 56075-10-17 11:17 G 22202322.84 22202322.97 22202323.09 0.0267 0.0189

Saturn 56076-01-14 07:26 G 22202411.62 22202411.81 22202411.99 0.0267 0.0009

Mars 56076-03-02 16:05 G 22202460.07 22202460.17 22202460.27 0.1712 0.0926

Saturn 56076-04-12 03:36 G 22202500.52 22202500.65 22202500.80 0.0266 0.0173

Jupiter 56077-03-30 10:05 G 22202852.76 22202852.92 22202853.08 0.0498 0.0242

Venus 56078-02-09 01:55 G 22203168.50 22203168.58 22203168.66 0.3684 0.2230

Jupiter 56082-12-03 01:12 G 22204926.43 22204926.55 22204926.68 0.0528 0.0062

Venus 56083-08-25 17:02 G 22205192.11 22205192.21 22205192.31 0.3683 0.0176

Earth 56084-02-15 00:58 G 22205365.44 22205365.54 22205365.65 0.2671 0.0418

Moon 56084-02-15 01:41 G 22205365.46 22205365.57 22205365.67 0.2676 0.0546 *

Earth 56086-08-20 12:29 G 22206282.93 22206283.02 22206283.12 0.2661 0.2101

Moon 56086-08-20 13:26 G 22206282.97 22206283.06 22206283.14 0.2667 0.2231 *

Mars 56088-04-23 07:12 G 22206894.65 22206894.80 22206894.95 0.1806 0.0553

Jupiter 56089-01-16 07:55 G 22207162.75 22207162.83 22207162.92 0.0498 0.0440

Venus 56089-03-10 08:10 G 22207215.77 22207215.84 22207215.91 0.3683 0.2564

Jupiter 56089-04-16 16:05 G 22207253.07 22207253.17 22207253.29 0.0500 0.0393

Saturn 56091-02-08 16:19 G 22207916.07 22207916.18 22207916.30 0.0293 0.0148

Saturn 56091-05-08 05:02 G 22208004.57 22208004.71 22208004.84 0.0294 0.0026

Saturn 56091-08-04 17:17 G 22208093.12 22208093.22 22208093.32 0.0294 0.0196

Jupiter 56094-09-21 05:17 G 22209236.61 22209236.72 22209236.84 0.0529 0.0228

Jupiter 56094-12-19 11:31 G 22209325.91 22209325.98 22209326.05 0.0526 0.0437

Mars 56096-11-18 20:24 G 22210026.27 22210026.35 22210026.44 0.1724 0.1174

Earth 56097-02-16 18:58 G 22210116.20 22210116.29 22210116.37 0.2670 0.1584

Moon 56097-02-16 19:26 G 22210116.23 22210116.31 22210116.40 0.2669 0.1608 *

Mars 56097-09-13 06:29 G 22210324.66 22210324.77 22210324.88 0.1813 0.1286

Jupiter 56101-02-03 12:58 G 22211562.87 22211563.04 22211563.21 0.0499 0.0170

Moon 56104-02-11 17:46 G 22212666.16 22212666.24 22212666.31 0.2680 0.1843

Earth 56104-02-11 18:00 G 22212666.17 22212666.25 22212666.34 0.2674 0.1768 *

Saturn 56105-03-06 11:31 G 22213054.89 22213054.98 22213055.07 0.0268 0.0232

Saturn 56105-06-03 07:41 G 22213143.64 22213143.82 22213144.00 0.0267 0.0051

Saturn 56105-08-31 04:05 G 22213232.51 22213232.67 22213232.83 0.0267 0.0131

Mars 56106-04-12 06:14 G 22213456.64 22213456.76 22213456.88 0.1718 0.0197

Jupiter 56106-07-11 09:07 G 22213546.80 22213546.88 22213546.97 0.0530 0.0401

Moon 56106-08-16 05:17 G 22213582.67 22213582.72 22213582.76 0.2664 0.2506

Earth 56106-08-16 06:14 G 22213582.68 22213582.76 22213582.84 0.2659 0.2275 *

Jupiter 56106-10-08 15:50 G 22213636.05 22213636.16 22213636.27 0.0528 0.0275

Venus 56108-07-26 14:24 G 22214292.94 22214293.10 22214293.25 0.3687 0.1146

Uranus 56109-04-13 09:07 G 22214553.79 22214553.88 22214554.00 0.0140 0.0117

Uranus 56109-07-10 17:02 G 22214642.07 22214642.21 22214642.37 0.0140 0.0087

Uranus 56109-10-07 00:43 G 22214730.37 22214730.53 22214730.72 0.0140 0.0057

Uranus 56110-01-03 08:53 G 22214818.68 22214818.87 22214819.06 0.0139 0.0026

Uranus 56110-04-01 16:34 G 22214907.00 22214907.19 22214907.39 0.0139 0.0005

Uranus 56110-06-29 00:14 G 22214995.33 22214995.51 22214995.71 0.0139 0.0035

Uranus 56110-09-25 08:10 G 22215083.68 22215083.84 22215084.02 0.0139 0.0065

Uranus 56110-12-22 15:50 G 22215172.03 22215172.16 22215172.31 0.0139 0.0096

Uranus 56111-03-20 23:46 G 22215260.42 22215260.49 22215260.58 0.0139 0.0126

Jupiter 56112-11-22 10:34 G 22215872.76 22215872.94 22215873.12 0.0498 0.0035

Mars 56115-09-02 15:50 G 22216887.06 22216887.16 22216887.27 0.1712 0.0793

Earth 56117-02-13 12:00 G 22217416.89 22217417.00 22217417.11 0.2672 0.0559

Moon 56117-02-13 12:14 G 22217416.90 22217417.01 22217417.12 0.2679 0.0502 *

Jupiter 56118-07-27 20:10 G 22217946.22 22217946.34 22217946.47 0.0528 0.0117

Moon 56119-08-19 12:00 G 22218333.85 22218334.00 22218334.16 0.2666 0.0158

Earth 56119-08-19 12:29 G 22218333.86 22218334.02 22218334.18 0.2660 0.0087 *

Saturn 56120-06-28 18:00 G 22218648.16 22218648.25 22218648.35 0.0293 0.0200

Saturn 56120-09-25 06:43 G 22218736.64 22218736.78 22218736.91 0.0293 0.0030

Saturn 56120-12-22 18:58 G 22218825.18 22218825.29 22218825.41 0.0294 0.0142

Jupiter 56124-09-10 08:10 G 22220182.69 22220182.84 22220183.01 0.0498 0.0238

Mars 56127-10-24 07:55 G 22221321.69 22221321.83 22221321.97 0.1806 0.0808

Earth 56130-02-16 05:46 G 22222167.64 22222167.74 22222167.85 0.2671 0.0640

Moon 56130-02-16 06:29 G 22222167.66 22222167.77 22222167.88 0.2675 0.0639 *

Neptune 56130-02-16 14:38 G 22222168.09 22222168.11 22222168.16 0.0089 0.0086

Neptune 56130-05-15 16:05 G 22222256.12 22222256.17 22222256.25 0.0089 0.0077

Jupiter 56130-05-16 00:29 G 22222256.39 22222256.52 22222256.65 0.0529 0.0045

Neptune 56130-08-11 17:31 G 22222344.16 22222344.23 22222344.32 0.0089 0.0069

Neptune 56130-11-07 18:58 G 22222432.20 22222432.29 22222432.40 0.0089 0.0061

Neptune 56131-02-03 20:24 G 22222520.25 22222520.35 22222520.46 0.0089 0.0053

Neptune 56131-05-02 21:50 G 22222608.30 22222608.41 22222608.53 0.0089 0.0045

Neptune 56131-07-29 23:17 G 22222696.35 22222696.47 22222696.59 0.0089 0.0037

Neptune 56131-10-26 00:43 G 22222784.40 22222784.53 22222784.66 0.0089 0.0029

Neptune 56132-01-22 02:10 G 22222872.46 22222872.59 22222872.72 0.0089 0.0021

Neptune 56132-04-19 03:22 G 22222960.51 22222960.64 22222960.78 0.0089 0.0013

Neptune 56132-07-16 04:48 G 22223048.57 22223048.70 22223048.83 0.0089 0.0005

Earth 56132-08-21 19:12 G 22223085.25 22223085.30 22223085.34 0.2662 0.2538

Moon 56132-08-21 19:55 G 22223085.30 22223085.33 22223085.37 0.2668 0.2581 *

Neptune 56132-10-12 06:00 G 22223136.62 22223136.75 22223136.89 0.0089 0.0004

Neptune 56133-01-08 07:26 G 22223224.68 22223224.81 22223224.94 0.0089 0.0010

Neptune 56133-04-06 08:53 G 22223312.74 22223312.87 22223313.00 0.0089 0.0018

Neptune 56133-07-03 10:05 G 22223400.80 22223400.92 22223401.05 0.0089 0.0026

Neptune 56133-09-29 11:17 G 22223488.86 22223488.97 22223489.10 0.0089 0.0034

Neptune 56133-12-26 12:43 G 22223576.92 22223577.03 22223577.15 0.0089 0.0042

Neptune 56134-03-24 14:10 G 22223664.98 22223665.09 22223665.20 0.0089 0.0049

Neptune 56134-06-20 15:22 G 22223753.04 22223753.14 22223753.24 0.0089 0.0057

Neptune 56134-09-16 16:34 G 22223841.11 22223841.19 22223841.29 0.0089 0.0065

Venus 56134-09-16 23:17 G 22223841.37 22223841.47 22223841.56 0.3684 0.1332

Saturn 56134-10-21 04:48 G 22223875.54 22223875.70 22223875.87 0.0267 0.0123

Neptune 56134-12-13 17:46 G 22223929.18 22223929.24 22223929.33 0.0089 0.0073

Saturn 56135-01-18 01:12 G 22223964.37 22223964.55 22223964.73 0.0267 0.0059

Neptune 56135-03-11 19:26 G 22224017.25 22224017.31 22224017.36 0.0089 0.0080

Saturn 56135-04-16 21:36 G 22224053.33 22224053.40 22224053.48 0.0266 0.0242

Neptune 56135-06-07 20:38 G 22224105.35 22224105.36 22224105.38 0.0089 0.0088

Mars 56136-05-20 20:24 G 22224453.28 22224453.35 22224453.43 0.1724 0.1323

Jupiter 56136-06-29 06:29 G 22224492.68 22224492.77 22224492.86 0.0498 0.0433

Jupiter 56136-09-27 14:38 G 22224583.00 22224583.11 22224583.22 0.0500 0.0398

Mars 56137-03-15 06:58 G 22224751.67 22224751.79 22224751.92 0.1813 0.1067

Venus 56140-04-01 14:24 G 22225865.00 22225865.10 22225865.20 0.3683 0.1067

Jupiter 56142-03-04 04:19 G 22226566.56 22226566.68 22226566.80 0.0529 0.0219

Jupiter 56142-06-01 10:34 G 22226655.87 22226655.94 22226656.01 0.0526 0.0446

Earth 56143-02-18 23:46 G 22226918.41 22226918.49 22226918.57 0.2670 0.1798

Moon 56143-02-19 00:29 G 22226918.44 22226918.52 22226918.59 0.2668 0.1948 *

Mars 56145-10-11 06:14 G 22227883.64 22227883.76 22227883.88 0.1718 0.0337

Venus 56145-10-16 05:31 G 22227888.70 22227888.73 22227888.76 0.3683 0.3453

Jupiter 56148-07-16 12:14 G 22228892.84 22228893.01 22228893.18 0.0500 0.0192

Saturn 56149-11-15 19:41 G 22229380.26 22229380.32 22229380.38 0.0293 0.0256

Moon 56150-02-11 22:34 G 22229468.35 22229468.44 22229468.53 0.2679 0.1587

Earth 56150-02-11 23:02 G 22229468.37 22229468.46 22229468.55 0.2674 0.1541 *

Saturn 56150-02-12 08:10 G 22229468.71 22229468.84 22229468.97 0.0293 0.0083

Saturn 56150-05-11 20:38 G 22229557.23 22229557.36 22229557.49 0.0294 0.0088

Saturn 56150-08-08 08:53 G 22229645.81 22229645.87 22229645.93 0.0294 0.0258

Uranus 56152-07-12 00:14 G 22230349.49 22230349.51 22230349.54 0.0138 0.0135

Moon 56152-08-16 11:46 G 22230384.88 22230384.99 22230385.09 0.2664 0.1890

Earth 56152-08-16 12:43 G 22230384.92 22230385.03 22230385.14 0.2659 0.1857 *

Uranus 56152-10-08 03:36 G 22230437.58 22230437.65 22230437.73 0.0138 0.0115

Uranus 56153-01-04 06:58 G 22230525.70 22230525.79 22230525.89 0.0138 0.0094

Uranus 56153-04-02 10:19 G 22230613.82 22230613.93 22230614.04 0.0138 0.0074

Uranus 56153-06-29 13:41 G 22230701.95 22230702.07 22230702.19 0.0138 0.0053

Uranus 56153-09-25 17:02 G 22230790.08 22230790.21 22230790.34 0.0138 0.0033

Jupiter 56153-12-21 08:10 G 22230876.75 22230876.84 22230876.93 0.0530 0.0390

Uranus 56153-12-22 20:10 G 22230878.21 22230878.34 22230878.48 0.0139 0.0013

Jupiter 56154-03-20 14:38 G 22230966.01 22230966.11 22230966.22 0.0527 0.0283

Uranus 56154-03-20 23:31 G 22230966.35 22230966.48 22230966.61 0.0139 0.0009

Uranus 56154-06-17 02:53 G 22231054.49 22231054.62 22231054.75 0.0139 0.0028

Uranus 56154-09-13 06:14 G 22231142.63 22231142.76 22231142.88 0.0139 0.0049

Uranus 56154-12-10 09:22 G 22231230.78 22231230.89 22231231.01 0.0139 0.0069

Mars 56155-03-03 16:05 G 22231314.06 22231314.17 22231314.28 0.1712 0.0640

Uranus 56155-03-08 12:29 G 22231318.93 22231319.02 22231319.13 0.0139 0.0090

Pluto 56155-04-07 12:29 G 22231348.97 22231349.02 22231349.09 0.0077 0.0072

Uranus 56155-06-04 15:50 G 22231407.09 22231407.16 22231407.25 0.0139 0.0110

Pluto 56155-07-04 14:38 G 22231436.99 22231437.11 22231437.26 0.0077 0.0051

Uranus 56155-08-31 19:12 G 22231495.26 22231495.30 22231495.35 0.0139 0.0130

Pluto 56155-09-30 16:48 G 22231525.05 22231525.20 22231525.38 0.0077 0.0030

Pluto 56155-12-27 19:12 G 22231613.13 22231613.30 22231613.49 0.0077 0.0009

Pluto 56156-03-24 21:36 G 22231701.22 22231701.40 22231701.58 0.0077 0.0013

Pluto 56156-06-20 23:31 G 22231789.33 22231789.48 22231789.66 0.0077 0.0034

Pluto 56156-09-17 01:41 G 22231877.46 22231877.57 22231877.71 0.0076 0.0055

Pluto 56156-12-14 03:50 G 22231965.65 22231965.66 22231965.70 0.0076 0.0075

Jupiter 56160-05-04 09:07 G 22233202.70 22233202.88 22233203.07 0.0498 0.0027

Earth 56163-02-14 16:48 G 22234219.09 22234219.20 22234219.31 0.2672 0.0340

Moon 56163-02-14 17:17 G 22234219.11 22234219.22 22234219.33 0.2679 0.0323 *

Saturn 56164-03-09 05:17 G 22234607.58 22234607.72 22234607.87 0.0268 0.0164

Saturn 56164-06-06 01:41 G 22234696.39 22234696.57 22234696.76 0.0267 0.0018

Mars 56164-07-24 01:41 G 22234744.54 22234744.57 22234744.61 0.1706 0.1613

Saturn 56164-09-02 22:05 G 22234785.31 22234785.42 22234785.55 0.0267 0.0201

Earth 56165-08-19 18:58 G 22235136.14 22235136.29 22235136.45 0.2660 0.0531

Moon 56165-08-19 19:12 G 22235136.15 22235136.30 22235136.45 0.2667 0.0437 *

Jupiter 56166-01-06 18:43 G 22235276.15 22235276.28 22235276.40 0.0528 0.0115

Mars 56167-04-24 08:10 G 22235748.71 22235748.84 22235748.97 0.1806 0.1000

Jupiter 56172-02-21 06:58 G 22237512.63 22237512.79 22237512.95 0.0498 0.0228

Mars 56175-11-19 20:24 G 22238880.29 22238880.35 22238880.41 0.1724 0.1455

Earth 56176-02-17 10:48 G 22238969.84 22238969.95 22238970.05 0.2671 0.0856

Moon 56176-02-17 11:17 G 22238969.87 22238969.97 22238970.08 0.2674 0.0981 *

Mars 56176-09-13 07:26 G 22239178.67 22239178.81 22239178.95 0.1814 0.0845

Jupiter 56177-10-25 23:02 G 22239586.33 22239586.46 22239586.59 0.0529 0.0046

Saturn 56179-07-02 10:19 G 22240200.82 22240200.93 22240201.05 0.0293 0.0129

Saturn 56179-09-28 22:48 G 22240289.32 22240289.45 22240289.58 0.0293 0.0042

Saturn 56179-12-26 11:17 G 22240377.88 22240377.97 22240378.06 0.0293 0.0212

Earth 56183-02-10 09:50 G 22241519.87 22241519.91 22241519.94 0.2675 0.2528

Moon 56183-02-10 09:07 G 22241519.88 22241519.88 22241519.88 0.2679 0.2670 *

Jupiter 56183-12-10 04:34 G 22241822.60 22241822.69 22241822.78 0.0497 0.0431

Jupiter 56184-03-09 12:29 G 22241912.92 22241913.02 22241913.14 0.0500 0.0398

Mars 56185-04-11 06:14 G 22242310.64 22242310.76 22242310.88 0.1718 0.0478

Venus 56185-10-08 05:17 G 22242490.66 22242490.72 22242490.79 0.3684 0.2853

Earth 56189-02-19 04:34 G 22243720.62 22243720.69 22243720.76 0.2670 0.2019

Moon 56189-02-19 05:17 G 22243720.65 22243720.72 22243720.79 0.2667 0.2035 *

Jupiter 56189-08-14 03:07 G 22243896.52 22243896.63 22243896.75 0.0529 0.0210

Jupiter 56189-11-11 09:36 G 22243985.84 22243985.90 22243985.96 0.0526 0.0456

Venus 56191-04-23 20:38 G 22244514.26 22244514.36 22244514.46 0.3684 0.0456

Uranus 56193-05-03 15:36 G 22245255.05 22245255.15 22245255.27 0.0140 0.0112

Saturn 56193-07-27 03:07 G 22245339.54 22245339.63 22245339.72 0.0268 0.0231

Uranus 56193-07-30 23:17 G 22245343.33 22245343.47 22245343.64 0.0140 0.0082

Saturn 56193-10-23 23:17 G 22245428.29 22245428.47 22245428.65 0.0267 0.0050

Uranus 56193-10-27 07:12 G 22245431.63 22245431.80 22245431.98 0.0140 0.0052

Saturn 56194-01-20 19:41 G 22245517.16 22245517.32 22245517.49 0.0267 0.0132

Uranus 56194-01-23 15:07 G 22245519.94 22245520.13 22245520.32 0.0139 0.0021

Uranus 56194-04-21 22:48 G 22245608.26 22245608.45 22245608.65 0.0139 0.0009

Uranus 56194-07-19 06:43 G 22245696.59 22245696.78 22245696.96 0.0139 0.0039

Mars 56194-09-01 16:05 G 22245741.05 22245741.17 22245741.29 0.1712 0.0493

Uranus 56194-10-15 14:10 G 22245784.94 22245785.09 22245785.27 0.0139 0.0071

Uranus 56195-01-11 22:19 G 22245873.30 22245873.43 22245873.57 0.0139 0.0100

Uranus 56195-04-10 06:14 G 22245961.70 22245961.76 22245961.83 0.0139 0.0130

Jupiter 56195-12-27 10:19 G 22246222.76 22246222.93 22246223.10 0.0499 0.0194

Moon 56196-02-13 03:36 G 22246270.55 22246270.65 22246270.75 0.2680 0.1306

Earth 56196-02-13 03:50 G 22246270.56 22246270.66 22246270.75 0.2673 0.1307 *

Venus 56196-11-06 11:46 G 22246537.90 22246537.99 22246538.07 0.3683 0.1961

Moon 56198-08-17 18:14 G 22247187.14 22247187.26 22247187.39 0.2664 0.1614

Earth 56198-08-17 19:26 G 22247187.18 22247187.31 22247187.44 0.2659 0.1426 *

Jupiter 56201-06-03 06:58 G 22248206.70 22248206.79 22248206.88 0.0530 0.0385

Jupiter 56201-08-31 13:26 G 22248295.96 22248296.06 22248296.17 0.0527 0.0288

Mars 56204-01-24 01:41 G 22249171.51 22249171.57 22249171.63 0.1706 0.1467

Mars 56206-10-24 08:53 G 22250175.75 22250175.87 22250175.98 0.1806 0.1237

Jupiter 56207-10-16 07:55 G 22250532.65 22250532.83 22250533.02 0.0499 0.0015

Saturn 56208-11-19 12:00 G 22250932.90 22250933.00 22250933.10 0.0293 0.0184

Earth 56209-02-15 21:36 G 22251021.29 22251021.40 22251021.52 0.2672 0.0149

Moon 56209-02-15 22:05 G 22251021.31 22251021.42 22251021.53 0.2679 0.0071 *

Saturn 56209-02-16 00:29 G 22251021.39 22251021.52 22251021.65 0.0293 0.0012 *

Saturn 56209-05-15 12:43 G 22251109.92 22251110.03 22251110.15 0.0294 0.0158

Earth 56211-08-22 01:41 G 22251938.42 22251938.57 22251938.71 0.2660 0.0962

Moon 56211-08-22 01:55 G 22251938.44 22251938.58 22251938.72 0.2667 0.1101 *

Jupiter 56213-06-19 17:31 G 22252606.10 22252606.23 22252606.35 0.0528 0.0122

Neptune 56214-04-17 02:24 G 22252907.54 22252907.60 22252907.69 0.0088 0.0081

Neptune 56214-07-14 06:00 G 22252995.64 22252995.75 22252995.87 0.0088 0.0070

Neptune 56214-10-10 09:36 G 22253083.75 22253083.90 22253084.04 0.0088 0.0059

Neptune 56215-01-06 12:29 G 22253171.88 22253172.02 22253172.20 0.0088 0.0049

Neptune 56215-04-04 16:05 G 22253260.01 22253260.17 22253260.36 0.0088 0.0037

Mars 56215-05-21 20:24 G 22253307.31 22253307.35 22253307.39 0.1724 0.1600

Neptune 56215-07-01 19:41 G 22253348.14 22253348.32 22253348.51 0.0088 0.0026

Neptune 56215-09-27 23:02 G 22253436.28 22253436.46 22253436.66 0.0088 0.0016

Neptune 56215-12-25 02:53 G 22253524.42 22253524.62 22253524.81 0.0088 0.0004

Mars 56216-03-15 07:55 G 22253605.69 22253605.83 22253605.98 0.1813 0.0622

Neptune 56216-03-22 06:14 G 22253612.57 22253612.76 22253612.96 0.0088 0.0007

Venus 56216-03-24 08:38 G 22253614.72 22253614.86 22253615.00 0.3687 0.1856

Neptune 56216-06-18 09:36 G 22253700.72 22253700.90 22253701.10 0.0088 0.0019

Neptune 56216-09-14 13:12 G 22253788.87 22253789.05 22253789.24 0.0088 0.0030

Neptune 56216-12-11 16:48 G 22253877.03 22253877.20 22253877.37 0.0088 0.0041

Neptune 56217-03-09 19:55 G 22253965.19 22253965.33 22253965.50 0.0088 0.0053

Neptune 56217-06-05 23:31 G 22254053.36 22254053.48 22254053.63 0.0088 0.0064

Neptune 56217-09-02 03:07 G 22254141.54 22254141.63 22254141.75 0.0088 0.0075

Neptune 56217-11-29 06:43 G 22254229.75 22254229.78 22254229.84 0.0088 0.0086

Jupiter 56219-08-04 05:17 G 22254842.56 22254842.72 22254842.88 0.0498 0.0221

Earth 56222-02-18 15:36 G 22255772.05 22255772.15 22255772.25 0.2671 0.1076

Moon 56222-02-18 16:19 G 22255772.08 22255772.18 22255772.28 0.2672 0.1136 *

Saturn 56223-03-14 00:00 G 22256160.33 22256160.50 22256160.68 0.0268 0.0090

Saturn 56223-06-10 20:24 G 22256249.18 22256249.35 22256249.53 0.0267 0.0093

Mars 56224-10-11 06:14 G 22256737.65 22256737.76 22256737.87 0.1718 0.0623

Jupiter 56225-04-07 21:22 G 22256916.26 22256916.39 22256916.51 0.0529 0.0056

Moon 56229-02-11 13:55 G 22258322.03 22258322.08 22258322.14 0.2678 0.2314

Earth 56229-02-11 14:38 G 22258322.05 22258322.11 22258322.16 0.2674 0.2293 *

Jupiter 56231-05-23 02:53 G 22259152.53 22259152.62 22259152.72 0.0497 0.0423

Jupiter 56231-08-21 10:48 G 22259242.85 22259242.95 22259243.06 0.0499 0.0405

Mars 56234-03-03 16:05 G 22260168.05 22260168.17 22260168.29 0.1712 0.0356

Earth 56235-02-21 09:22 G 22260522.83 22260522.89 22260522.95 0.2670 0.2237

Moon 56235-02-21 09:50 G 22260522.87 22260522.91 22260522.96 0.2667 0.2372 *

Uranus 56236-08-02 07:26 G 22261050.77 22261050.81 22261050.85 0.0138 0.0130

Uranus 56236-10-29 10:34 G 22261138.87 22261138.94 22261139.03 0.0138 0.0110

Jupiter 56237-01-25 01:26 G 22261226.44 22261226.56 22261226.68 0.0530 0.0216

Uranus 56237-01-25 14:10 G 22261226.99 22261227.09 22261227.19 0.0138 0.0090

Uranus 56237-04-23 17:17 G 22261315.11 22261315.22 22261315.34 0.0138 0.0069

Jupiter 56237-04-24 07:41 G 22261315.76 22261315.82 22261315.89 0.0527 0.0452

Uranus 56237-07-20 20:38 G 22261403.24 22261403.36 22261403.49 0.0138 0.0049

Uranus 56237-10-17 00:00 G 22261491.37 22261491.50 22261491.63 0.0139 0.0028

Uranus 56238-01-13 03:22 G 22261579.51 22261579.64 22261579.77 0.0139 0.0008

Saturn 56238-04-08 14:38 G 22261665.03 22261665.11 22261665.20 0.0292 0.0223

Uranus 56238-04-11 06:43 G 22261667.65 22261667.78 22261667.91 0.0139 0.0013

Saturn 56238-07-06 03:22 G 22261753.51 22261753.64 22261753.77 0.0293 0.0053

Uranus 56238-07-08 09:50 G 22261755.79 22261755.91 22261756.04 0.0139 0.0033

Saturn 56238-10-02 15:36 G 22261842.03 22261842.15 22261842.27 0.0293 0.0118

Uranus 56238-10-04 13:12 G 22261843.93 22261844.05 22261844.17 0.0139 0.0054

Saturn 56238-12-30 03:50 G 22261930.64 22261930.66 22261930.69 0.0293 0.0287

Uranus 56238-12-31 16:34 G 22261932.08 22261932.19 22261932.30 0.0139 0.0074

Uranus 56239-03-29 19:41 G 22262020.23 22262020.32 22262020.42 0.0139 0.0094

Uranus 56239-06-25 22:48 G 22262108.39 22262108.45 22262108.53 0.0139 0.0115

Uranus 56239-09-22 02:10 G 22262196.57 22262196.59 22262196.63 0.0139 0.0135

Moon 56242-02-14 08:38 G 22263072.76 22263072.86 22263072.96 0.2680 0.1130

Earth 56242-02-14 08:38 G 22263072.76 22263072.86 22263072.96 0.2673 0.1077 *

Venus 56242-05-16 02:38 G 22263163.53 22263163.61 22263163.70 0.3684 0.1949

Jupiter 56243-06-09 07:55 G 22263552.67 22263552.83 22263553.00 0.0499 0.0191

Mars 56243-07-25 01:41 G 22263598.50 22263598.57 22263598.65 0.1707 0.1325

Moon 56244-08-19 01:12 G 22263989.41 22263989.55 22263989.69 0.2665 0.1041

Earth 56244-08-19 01:55 G 22263989.43 22263989.58 22263989.72 0.2659 0.1007 *

Mars 56246-04-24 09:22 G 22264602.80 22264602.89 22264602.98 0.1806 0.1474

Venus 56247-11-29 17:46 G 22265187.14 22265187.24 22265187.34 0.3684 0.0458

Jupiter 56248-11-13 05:31 G 22265536.65 22265536.73 22265536.82 0.0530 0.0381

Jupiter 56249-02-10 12:14 G 22265625.90 22265626.01 22265626.12 0.0527 0.0294

Saturn 56252-07-30 22:05 G 22266892.28 22266892.42 22266892.58 0.0268 0.0153

Saturn 56252-10-27 18:29 G 22266981.09 22266981.27 22266981.46 0.0267 0.0029

Saturn 56253-01-24 15:07 G 22267070.02 22267070.13 22267070.24 0.0267 0.0212

Venus 56253-06-14 08:53 G 22267210.81 22267210.87 22267210.94 0.3683 0.2849

Earth 56255-02-17 02:38 G 22267823.50 22267823.61 22267823.72 0.2672 0.0135

Moon 56255-02-17 02:53 G 22267823.51 22267823.62 22267823.73 0.2678 0.0206 *

Jupiter 56255-03-28 05:46 G 22267862.56 22267862.74 22267862.92 0.0499 0.0013

Mars 56255-09-14 08:24 G 22268032.70 22268032.85 22268033.01 0.1813 0.0402

Earth 56257-08-22 08:10 G 22268740.71 22268740.84 22268740.98 0.2661 0.1406

Moon 56257-08-22 08:38 G 22268740.73 22268740.86 22268740.99 0.2668 0.1360 *

Jupiter 56260-11-29 16:05 G 22269936.05 22269936.17 22269936.30 0.0528 0.0125

Mars 56264-04-11 06:14 G 22271164.66 22271164.76 22271164.87 0.1718 0.0770

Jupiter 56267-01-14 03:36 G 22272172.49 22272172.65 22272172.82 0.0498 0.0215

Saturn 56267-08-26 16:34 G 22272397.15 22272397.19 22272397.23 0.0292 0.0275

Saturn 56267-11-23 05:02 G 22272485.59 22272485.71 22272485.84 0.0293 0.0104

Saturn 56268-02-19 17:31 G 22272574.10 22272574.23 22272574.36 0.0293 0.0067

Earth 56268-02-19 20:24 G 22272574.25 22272574.35 22272574.45 0.2671 0.1297 *

Moon 56268-02-19 21:07 G 22272574.29 22272574.38 22272574.47 0.2671 0.1398 *

Saturn 56268-05-18 05:46 G 22272662.66 22272662.74 22272662.82 0.0294 0.0237

Jupiter 56272-09-17 19:55 G 22274246.21 22274246.33 22274246.46 0.0529 0.0049

Venus 56272-10-29 11:02 G 22274287.81 22274287.96 22274288.11 0.3687 0.1087

Mars 56273-09-01 16:05 G 22274595.05 22274595.17 22274595.29 0.1712 0.0209

Moon 56275-02-12 18:58 G 22275124.23 22275124.29 22275124.35 0.2679 0.2189

Earth 56275-02-12 19:26 G 22275124.24 22275124.31 22275124.38 0.2674 0.2059 *

Uranus 56277-02-25 14:10 G 22275868.07 22275868.09 22275868.14 0.0140 0.0137

Uranus 56277-05-24 22:05 G 22275956.30 22275956.42 22275956.55 0.0140 0.0107

Uranus 56277-08-21 05:46 G 22276044.59 22276044.74 22276044.91 0.0140 0.0077

Uranus 56277-11-17 13:26 G 22276132.89 22276133.06 22276133.25 0.0139 0.0047

Uranus 56278-02-13 21:22 G 22276221.20 22276221.39 22276221.59 0.0139 0.0016

Uranus 56278-05-13 05:17 G 22276309.53 22276309.72 22276309.91 0.0139 0.0014

Uranus 56278-08-09 12:58 G 22276397.86 22276398.04 22276398.23 0.0139 0.0045

Jupiter 56278-11-02 01:12 G 22276482.46 22276482.55 22276482.65 0.0497 0.0419

Uranus 56278-11-05 20:38 G 22276486.21 22276486.36 22276486.53 0.0139 0.0075

Jupiter 56279-01-31 09:07 G 22276572.78 22276572.88 22276572.99 0.0499 0.0408

Uranus 56279-02-02 04:34 G 22276574.57 22276574.69 22276574.82 0.0139 0.0105

Uranus 56279-05-01 12:14 G 22276662.99 22276663.01 22276663.07 0.0139 0.0136

Earth 56281-02-21 14:10 G 22277325.05 22277325.09 22277325.13 0.2670 0.2453

Moon 56281-02-21 14:38 G 22277325.07 22277325.11 22277325.15 0.2666 0.2468 *

Saturn 56281-12-17 23:02 G 22277624.34 22277624.46 22277624.59 0.0268 0.0191

Saturn 56282-03-16 19:26 G 22277713.12 22277713.31 22277713.49 0.0268 0.0010

Saturn 56282-06-13 15:36 G 22277802.02 22277802.15 22277802.30 0.0267 0.0175

Mars 56283-01-23 01:55 G 22278025.49 22278025.58 22278025.66 0.1706 0.1178

Jupiter 56284-07-06 23:31 G 22278556.36 22278556.48 22278556.60 0.0530 0.0226

Jupiter 56284-10-04 06:00 G 22278645.68 22278645.75 22278645.82 0.0527 0.0443

Mars 56285-10-23 09:36 G 22279029.85 22279029.90 22279029.96 0.1806 0.1677

Moon 56288-02-15 13:26 G 22279874.96 22279875.06 22279875.17 0.2680 0.0790

Earth 56288-02-15 13:26 G 22279874.96 22279875.06 22279875.17 0.2673 0.0849 *

Moon 56290-08-20 08:10 G 22280791.69 22280791.84 22280791.98 0.2666 0.0621

Earth 56290-08-20 08:24 G 22280791.70 22280791.85 22280792.00 0.2659 0.0576 *

Jupiter 56290-11-19 06:14 G 22280882.60 22280882.76 22280882.93 0.0499 0.0196

Venus 56293-06-06 08:53 G 22281812.84 22281812.87 22281812.90 0.3684 0.3486

Neptune 56294-08-18 13:12 G 22282251.05 22282251.05 22282251.07 0.0089 0.0089

Neptune 56294-11-14 14:38 G 22282339.07 22282339.11 22282339.18 0.0089 0.0081

Neptune 56295-02-10 16:05 G 22282427.10 22282427.17 22282427.26 0.0089 0.0073

Mars 56295-03-15 08:53 G 22282459.72 22282459.87 22282460.03 0.1814 0.0181

Neptune 56295-05-09 17:31 G 22282515.15 22282515.23 22282515.33 0.0089 0.0065

Neptune 56295-08-05 18:43 G 22282603.19 22282603.28 22282603.40 0.0089 0.0058

Neptune 56295-11-01 20:10 G 22282691.24 22282691.34 22282691.46 0.0089 0.0049

Neptune 56296-01-28 21:36 G 22282779.29 22282779.40 22282779.53 0.0089 0.0041

Jupiter 56296-04-25 03:36 G 22282866.57 22282866.65 22282866.74 0.0531 0.0393

Neptune 56296-04-25 23:02 G 22282867.34 22282867.46 22282867.59 0.0089 0.0033

Neptune 56296-07-23 00:29 G 22282955.40 22282955.52 22282955.65 0.0089 0.0025

Jupiter 56296-07-23 10:19 G 22282955.82 22282955.93 22282956.04 0.0528 0.0284

Neptune 56296-10-19 01:55 G 22283043.45 22283043.58 22283043.71 0.0089 0.0017

Neptune 56297-01-15 03:22 G 22283131.51 22283131.64 22283131.77 0.0089 0.0009

Saturn 56297-04-11 08:10 G 22283217.73 22283217.84 22283217.96 0.0292 0.0138

Neptune 56297-04-13 04:48 G 22283219.56 22283219.70 22283219.83 0.0089 0.0003

Saturn 56297-07-08 20:38 G 22283306.23 22283306.36 22283306.49 0.0293 0.0032

Neptune 56297-07-10 06:00 G 22283307.62 22283307.75 22283307.89 0.0089 0.0007

Saturn 56297-10-05 08:53 G 22283394.78 22283394.87 22283394.97 0.0293 0.0201

Neptune 56297-10-06 07:26 G 22283395.68 22283395.81 22283395.94 0.0089 0.0015

Neptune 56298-01-02 08:38 G 22283483.74 22283483.86 22283483.99 0.0089 0.0023

Neptune 56298-03-31 10:05 G 22283571.80 22283571.92 22283572.04 0.0089 0.0030

Neptune 56298-06-27 11:17 G 22283659.86 22283659.97 22283660.10 0.0089 0.0038

Neptune 56298-09-23 12:43 G 22283747.92 22283748.03 22283748.14 0.0089 0.0046

Neptune 56298-12-20 13:55 G 22283835.98 22283836.08 22283836.19 0.0089 0.0054

Venus 56298-12-21 00:00 G 22283836.40 22283836.50 22283836.59 0.3684 0.1067

Neptune 56299-03-18 15:07 G 22283924.05 22283924.13 22283924.24 0.0089 0.0062

Neptune 56299-06-14 16:48 G 22284012.12 22284012.20 22284012.28 0.0089 0.0069

Neptune 56299-09-10 18:00 G 22284100.19 22284100.25 22284100.32 0.0089 0.0077

Neptune 56299-12-07 19:12 G 22284188.27 22284188.30 22284188.34 0.0089 0.0085

Earth 56301-02-18 07:26 G 22284625.70 22284625.81 22284625.92 0.2672 0.0347

Moon 56301-02-18 07:55 G 22284625.72 22284625.83 22284625.94 0.2676 0.0375 *

Jupiter 56302-09-08 03:22 G 22285192.46 22285192.64 22285192.82 0.0498 0.0020

Earth 56303-08-24 14:38 G 22285543.00 22285543.11 22285543.23 0.2661 0.1834

Moon 56303-08-24 15:07 G 22285543.03 22285543.13 22285543.24 0.2667 0.1971 *

Mars 56303-10-12 06:14 G 22285591.66 22285591.76 22285591.86 0.1718 0.0903

Venus 56304-07-06 15:07 G 22285860.04 22285860.13 22285860.22 0.3683 0.1344

Jupiter 56308-05-12 14:38 G 22287265.99 22287266.11 22287266.24 0.0528 0.0125

Saturn 56311-05-07 21:50 G 22288356.35 22288356.41 22288356.48 0.0268 0.0248

Saturn 56311-08-04 18:00 G 22288445.08 22288445.25 22288445.43 0.0268 0.0068

Saturn 56311-11-01 14:38 G 22288533.94 22288534.11 22288534.27 0.0267 0.0115

Mars 56313-03-03 16:05 G 22289022.05 22289022.17 22289022.29 0.1712 0.0071

Earth 56314-02-21 01:12 G 22289376.46 22289376.55 22289376.64 0.2671 0.1518

Moon 56314-02-21 01:55 G 22289376.49 22289376.58 22289376.67 0.2671 0.1608 *

Pluto 56314-05-17 00:00 G 22289461.45 22289461.50 22289461.58 0.0067 0.0058

Jupiter 56314-06-27 01:12 G 22289502.38 22289502.55 22289502.71 0.0498 0.0221

Pluto 56314-08-13 00:43 G 22289549.44 22289549.53 22289549.64 0.0067 0.0047

Pluto 56314-11-09 01:26 G 22289637.45 22289637.56 22289637.68 0.0067 0.0036

Pluto 56315-02-05 02:10 G 22289725.46 22289725.59 22289725.72 0.0067 0.0026

Pluto 56315-05-04 02:38 G 22289813.48 22289813.61 22289813.75 0.0067 0.0015

Pluto 56315-07-31 03:22 G 22289901.50 22289901.64 22289901.78 0.0067 0.0004

Pluto 56315-10-27 03:50 G 22289989.53 22289989.66 22289989.80 0.0068 0.0007

Pluto 56316-01-23 04:34 G 22290077.56 22290077.69 22290077.82 0.0068 0.0018

Pluto 56316-04-20 04:48 G 22290165.59 22290165.70 22290165.84 0.0068 0.0030

Pluto 56316-07-17 05:46 G 22290253.63 22290253.74 22290253.85 0.0068 0.0040

Pluto 56316-10-13 06:00 G 22290341.68 22290341.75 22290341.86 0.0068 0.0052

Pluto 56317-01-09 06:43 G 22290429.74 22290429.78 22290429.84 0.0068 0.0063

Jupiter 56320-02-29 18:29 G 22291576.14 22291576.27 22291576.40 0.0529 0.0047

Uranus 56320-08-23 14:24 G 22291752.05 22291752.10 22291752.16 0.0138 0.0126

Uranus 56320-11-19 17:46 G 22291840.16 22291840.24 22291840.33 0.0138 0.0105

Moon 56321-02-14 00:00 G 22291926.42 22291926.50 22291926.58 0.2680 0.1826

Earth 56321-02-14 00:14 G 22291926.43 22291926.51 22291926.59 0.2674 0.1834 *

Uranus 56321-02-15 21:07 G 22291928.28 22291928.38 22291928.49 0.0138 0.0085

Uranus 56321-05-15 00:29 G 22292016.40 22292016.52 22292016.64 0.0138 0.0064

Uranus 56321-08-11 03:50 G 22292104.53 22292104.66 22292104.79 0.0138 0.0044

Uranus 56321-11-07 07:12 G 22292192.67 22292192.80 22292192.93 0.0139 0.0024

Uranus 56322-02-03 10:34 G 22292280.80 22292280.94 22292281.07 0.0139 0.0005

Uranus 56322-05-02 13:41 G 22292368.94 22292369.07 22292369.20 0.0139 0.0018

Mars 56322-07-25 01:55 G 22292452.48 22292452.58 22292452.67 0.1706 0.1037

Uranus 56322-07-29 17:02 G 22292457.08 22292457.21 22292457.34 0.0139 0.0038

Uranus 56322-10-25 20:24 G 22292545.23 22292545.35 22292545.47 0.0139 0.0058

Uranus 56323-01-21 23:31 G 22292633.38 22292633.48 22292633.59 0.0139 0.0079

Uranus 56323-04-20 02:53 G 22292721.53 22292721.62 22292721.71 0.0139 0.0099

Uranus 56323-07-17 06:14 G 22292809.69 22292809.76 22292809.82 0.0139 0.0119

Moon 56323-08-19 07:26 G 22292842.78 22292842.81 22292842.85 0.2662 0.2569

Earth 56323-08-19 08:53 G 22292842.82 22292842.87 22292842.92 0.2658 0.2496 *

Jupiter 56326-04-14 23:02 G 22293812.37 22293812.46 22293812.56 0.0497 0.0420

Jupiter 56326-07-14 06:58 G 22293902.69 22293902.79 22293902.90 0.0500 0.0409

Saturn 56326-08-30 10:05 G 22293949.82 22293949.92 22293950.02 0.0293 0.0190

Saturn 56326-11-26 22:34 G 22294038.30 22294038.44 22294038.57 0.0293 0.0021

Saturn 56327-02-23 10:48 G 22294126.84 22294126.95 22294127.06 0.0293 0.0151

Jupiter 56331-12-18 22:19 G 22295886.31 22295886.43 22295886.54 0.0530 0.0221

Jupiter 56332-03-17 04:34 G 22295975.63 22295975.69 22295975.76 0.0527 0.0447

Moon 56334-02-16 18:29 G 22296677.16 22296677.27 22296677.38 0.2680 0.0670

Earth 56334-02-16 18:29 G 22296677.16 22296677.27 22296677.37 0.2673 0.0623 *

Mars 56334-09-14 09:22 G 22296886.74 22296886.89 22296887.05 0.1813 0.0063

Moon 56336-08-21 14:38 G 22297593.96 22297594.11 22297594.26 0.2667 0.0203

Earth 56336-08-21 14:53 G 22297593.96 22297594.12 22297594.27 0.2660 0.0154 *

Jupiter 56338-05-02 04:19 G 22298212.51 22298212.68 22298212.85 0.0499 0.0196

Saturn 56340-12-21 18:58 G 22299177.13 22299177.29 22299177.47 0.0268 0.0106

Saturn 56341-03-20 15:22 G 22299265.97 22299266.14 22299266.32 0.0268 0.0078

Saturn 56341-06-17 12:00 G 22299354.97 22299355.00 22299355.04 0.0267 0.0261

Mars 56343-04-12 06:14 G 22300018.67 22300018.76 22300018.86 0.1718 0.1052

Jupiter 56343-10-07 01:26 G 22300196.48 22300196.56 22300196.65 0.0531 0.0405

Jupiter 56344-01-04 08:10 G 22300285.74 22300285.84 22300285.95 0.0528 0.0273

Mars 56344-02-04 08:38 G 22300316.85 22300316.86 22300316.87 0.1820 0.1813

Earth 56347-02-19 12:14 G 22301427.90 22301428.01 22301428.12 0.2672 0.0574

Moon 56347-02-19 12:58 G 22301427.93 22301428.04 22301428.14 0.2675 0.0708 *

Earth 56349-08-24 21:22 G 22302345.31 22302345.39 22302345.47 0.2661 0.2278

Moon 56349-08-24 22:19 G 22302345.35 22302345.43 22302345.50 0.2667 0.2337 *

Venus 56350-01-12 06:00 G 22302485.68 22302485.75 22302485.82 0.3684 0.2589

Jupiter 56350-02-18 01:26 G 22302522.38 22302522.56 22302522.75 0.0498 0.0018

Mars 56352-09-01 16:05 G 22303449.05 22303449.17 22303449.29 0.1712 0.0075

Venus 56355-07-28 21:22 G 22304509.28 22304509.39 22304509.49 0.3683 0.0229

Jupiter 56355-10-23 12:29 G 22304595.89 22304596.02 22304596.14 0.0529 0.0110

Saturn 56356-01-17 13:26 G 22304681.98 22304682.06 22304682.15 0.0292 0.0219

Saturn 56356-04-15 02:10 G 22304770.46 22304770.59 22304770.72 0.0292 0.0048

Saturn 56356-07-12 14:24 G 22304858.98 22304859.10 22304859.22 0.0293 0.0122

Saturn 56356-10-09 02:38 G 22304947.60 22304947.61 22304947.63 0.0293 0.0290

Earth 56360-02-22 06:00 G 22306178.67 22306178.75 22306178.83 0.2670 0.1741

Moon 56360-02-22 06:43 G 22306178.70 22306178.78 22306178.86 0.2670 0.1805 *

Venus 56361-02-10 12:29 G 22306532.94 22306533.02 22306533.10 0.3683 0.2237

Uranus 56361-03-18 20:53 G 22306569.32 22306569.37 22306569.45 0.0140 0.0131

Uranus 56361-06-15 04:48 G 22306657.58 22306657.70 22306657.84 0.0140 0.0101

Uranus 56361-09-11 12:29 G 22306745.86 22306746.02 22306746.19 0.0140 0.0071

Jupiter 56361-12-06 22:19 G 22306832.27 22306832.43 22306832.60 0.0498 0.0230

Uranus 56361-12-08 20:24 G 22306834.17 22306834.35 22306834.53 0.0139 0.0040

Mars 56362-01-23 01:55 G 22306879.48 22306879.58 22306879.68 0.1707 0.0887

Uranus 56362-03-07 04:05 G 22306922.48 22306922.67 22306922.87 0.0139 0.0011

Uranus 56362-06-03 12:00 G 22307010.81 22307011.00 22307011.19 0.0139 0.0020

Uranus 56362-08-30 19:41 G 22307099.15 22307099.32 22307099.50 0.0139 0.0051

Uranus 56362-11-27 03:22 G 22307187.49 22307187.64 22307187.81 0.0139 0.0081

Uranus 56363-02-23 11:17 G 22307275.86 22307275.97 22307276.09 0.0139 0.0111

Moon 56367-02-15 05:02 G 22308728.62 22308728.71 22308728.79 0.2681 0.1682

Earth 56367-02-15 05:17 G 22308728.63 22308728.72 22308728.81 0.2674 0.1599 *

Jupiter 56367-08-11 16:48 G 22308906.07 22308906.20 22308906.33 0.0529 0.0051

Moon 56369-08-19 14:24 G 22309645.02 22309645.10 22309645.17 0.2663 0.2271

Earth 56369-08-19 15:22 G 22309645.04 22309645.14 22309645.23 0.2658 0.2073 *

Saturn 56370-05-10 18:29 G 22309909.13 22309909.27 22309909.42 0.0268 0.0157

Saturn 56370-08-07 14:53 G 22309997.93 22309998.12 22309998.30 0.0267 0.0025

Saturn 56370-11-04 11:17 G 22310086.86 22310086.97 22310087.09 0.0267 0.0208

Jupiter 56373-09-24 20:10 G 22311142.26 22311142.34 22311142.44 0.0497 0.0429

Jupiter 56373-12-24 04:05 G 22311232.57 22311232.67 22311232.78 0.0500 0.0399

Mars 56374-03-15 09:50 G 22311313.76 22311313.91 22311314.07 0.1813 0.0268

Neptune 56378-10-16 22:19 G 22312990.38 22312990.43 22312990.48 0.0088 0.0085

Neptune 56379-01-13 01:12 G 22313078.47 22313078.55 22313078.68 0.0088 0.0075

Neptune 56379-04-11 04:48 G 22313166.58 22313166.70 22313166.85 0.0088 0.0063

Jupiter 56379-05-30 20:38 G 22313216.24 22313216.36 22313216.47 0.0530 0.0224

Neptune 56379-07-08 08:24 G 22313254.71 22313254.85 22313255.01 0.0088 0.0052

Jupiter 56379-08-28 02:53 G 22313305.56 22313305.62 22313305.69 0.0527 0.0444

Neptune 56379-10-04 11:46 G 22313342.83 22313342.99 22313343.17 0.0088 0.0042

Neptune 56379-12-31 15:22 G 22313430.97 22313431.14 22313431.33 0.0088 0.0030

Earth 56380-02-17 23:17 G 22313479.36 22313479.47 22313479.58 0.2673 0.0399

Moon 56380-02-17 23:31 G 22313479.37 22313479.48 22313479.58 0.2679 0.0328 *

Neptune 56380-03-28 18:43 G 22313519.10 22313519.28 22313519.48 0.0088 0.0020

Neptune 56380-06-24 22:19 G 22313607.24 22313607.43 22313607.63 0.0088 0.0008

Venus 56380-06-27 05:17 G 22313609.58 22313609.72 22313609.85 0.3687 0.1979

Neptune 56380-09-21 01:55 G 22313695.39 22313695.58 22313695.77 0.0088 0.0003

Neptune 56380-12-18 05:17 G 22313783.53 22313783.72 22313783.91 0.0088 0.0014

Neptune 56381-03-16 08:38 G 22313871.68 22313871.86 22313872.05 0.0088 0.0025

Neptune 56381-06-12 12:00 G 22313959.84 22313960.00 22313960.19 0.0088 0.0037

Neptune 56381-09-08 15:36 G 22314048.00 22314048.15 22314048.32 0.0088 0.0047

Neptune 56381-12-05 19:12 G 22314136.16 22314136.30 22314136.45 0.0088 0.0058

Neptune 56382-03-03 22:34 G 22314224.34 22314224.44 22314224.57 0.0088 0.0070

Neptune 56382-05-31 02:24 G 22314312.53 22314312.60 22314312.68 0.0088 0.0081

Moon 56382-08-22 21:22 G 22314396.23 22314396.39 22314396.54 0.2667 0.0324

Earth 56382-08-22 21:22 G 22314396.24 22314396.39 22314396.55 0.2660 0.0276 *

Mars 56382-10-11 06:14 G 22314445.68 22314445.76 22314445.85 0.1718 0.1189

Mars 56383-08-05 09:07 G 22314743.81 22314743.88 22314743.96 0.1820 0.1585

Saturn 56385-06-05 15:22 G 22315414.09 22315414.14 22315414.19 0.0292 0.0271

Saturn 56385-09-02 03:50 G 22315502.54 22315502.66 22315502.79 0.0293 0.0099

Jupiter 56385-10-12 01:41 G 22315542.41 22315542.57 22315542.74 0.0499 0.0191

Saturn 56385-11-29 16:19 G 22315591.05 22315591.18 22315591.31 0.0293 0.0071

Saturn 56386-02-26 04:34 G 22315679.62 22315679.69 22315679.77 0.0294 0.0240

Jupiter 56391-03-19 00:14 G 22317526.43 22317526.51 22317526.59 0.0530 0.0400

Jupiter 56391-06-16 06:58 G 22317615.68 22317615.79 22317615.90 0.0528 0.0276

Mars 56392-03-02 16:05 G 22317876.05 22317876.17 22317876.29 0.1712 0.0226

Earth 56393-02-19 17:02 G 22318230.11 22318230.21 22318230.32 0.2671 0.0797

Moon 56393-02-19 17:46 G 22318230.14 22318230.24 22318230.35 0.2674 0.0814 *

Jupiter 56397-07-30 23:17 G 22319852.29 22319852.47 22319852.65 0.0498 0.0017

Saturn 56399-09-27 19:12 G 22320641.19 22320641.30 22320641.44 0.0268 0.0197

Saturn 56399-12-25 15:36 G 22320729.97 22320730.15 22320730.34 0.0268 0.0016

Earth 56400-02-13 16:05 G 22320780.14 22320780.17 22320780.19 0.2675 0.2592

Saturn 56400-03-23 12:00 G 22320818.87 22320819.00 22320819.15 0.0267 0.0170

Pluto 56401-03-05 01:26 G 22321165.52 22321165.56 22321165.64 0.0077 0.0072

Pluto 56401-06-01 03:36 G 22321253.53 22321253.65 22321253.81 0.0077 0.0051

Mars 56401-07-24 01:55 G 22321306.47 22321306.58 22321306.69 0.1706 0.0747

Pluto 56401-08-28 06:14 G 22321341.60 22321341.76 22321341.93 0.0077 0.0029

Pluto 56401-11-24 08:24 G 22321429.67 22321429.85 22321430.04 0.0077 0.0009

Pluto 56402-02-20 10:34 G 22321517.77 22321517.94 22321518.13 0.0077 0.0013

Pluto 56402-05-19 12:43 G 22321605.87 22321606.03 22321606.20 0.0077 0.0034

Pluto 56402-08-15 14:53 G 22321694.00 22321694.12 22321694.26 0.0077 0.0055

Pluto 56402-11-11 16:48 G 22321782.20 22321782.20 22321782.25 0.0076 0.0076

Jupiter 56403-04-04 10:19 G 22321925.81 22321925.93 22321926.06 0.0529 0.0098

Uranus 56404-09-12 21:36 G 22322453.34 22322453.40 22322453.46 0.0138 0.0122

Uranus 56404-12-10 00:43 G 22322541.45 22322541.53 22322541.63 0.0138 0.0102

Uranus 56405-03-08 04:19 G 22322629.57 22322629.68 22322629.78 0.0138 0.0081

Uranus 56405-06-04 07:26 G 22322717.70 22322717.81 22322717.94 0.0139 0.0061

Uranus 56405-08-31 10:48 G 22322805.83 22322805.95 22322806.08 0.0139 0.0040

Uranus 56405-11-27 14:10 G 22322893.96 22322894.09 22322894.22 0.0139 0.0019

Earth 56406-02-22 10:48 G 22322980.88 22322980.95 22322981.03 0.2670 0.1962

Moon 56406-02-22 11:31 G 22322980.91 22322980.98 22322981.05 0.2668 0.2075 *

Uranus 56406-02-23 17:31 G 22322982.10 22322982.23 22322982.36 0.0139 0.0001

Uranus 56406-05-22 20:53 G 22323070.24 22323070.37 22323070.50 0.0139 0.0022

Uranus 56406-08-19 00:00 G 22323158.38 22323158.50 22323158.63 0.0139 0.0042

Venus 56406-08-19 03:22 G 22323158.55 22323158.64 22323158.73 0.3684 0.1685 *

Uranus 56406-11-15 03:22 G 22323246.52 22323246.64 22323246.76 0.0139 0.0063

Uranus 56407-02-11 06:29 G 22323334.67 22323334.77 22323334.88 0.0139 0.0083

Uranus 56407-05-10 09:50 G 22323422.83 22323422.91 22323423.00 0.0139 0.0104

Uranus 56407-08-06 13:12 G 22323510.99 22323511.05 22323511.11 0.0139 0.0124

Jupiter 56409-05-18 20:38 G 22324162.20 22324162.36 22324162.53 0.0497 0.0224

Venus 56412-03-03 18:29 G 22325182.18 22325182.27 22325182.37 0.3683 0.0751

Moon 56413-02-15 09:50 G 22325530.82 22325530.91 22325531.01 0.2681 0.1364

Earth 56413-02-15 10:05 G 22325530.82 22325530.92 22325531.01 0.2674 0.1369 *

Mars 56413-09-13 10:19 G 22325740.78 22325740.93 22325741.09 0.1814 0.0495

Saturn 56415-01-20 07:41 G 22326234.70 22326234.82 22326234.94 0.0292 0.0126

Jupiter 56415-01-21 14:24 G 22326235.98 22326236.10 22326236.23 0.0529 0.0071

Saturn 56415-04-18 20:10 G 22326323.21 22326323.34 22326323.47 0.0293 0.0044

Saturn 56415-07-16 08:24 G 22326411.76 22326411.85 22326411.94 0.0293 0.0213

Moon 56415-08-20 21:07 G 22326447.26 22326447.38 22326447.49 0.2665 0.1639

Earth 56415-08-20 21:50 G 22326447.29 22326447.41 22326447.53 0.2659 0.1659 *

Venus 56417-09-17 09:50 G 22327205.85 22327205.91 22327205.96 0.3683 0.3128

Jupiter 56421-03-06 17:31 G 22328472.15 22328472.23 22328472.31 0.0497 0.0439

Jupiter 56421-06-05 01:12 G 22328562.44 22328562.55 22328562.67 0.0499 0.0386

Mars 56422-04-11 06:14 G 22328872.69 22328872.76 22328872.84 0.1718 0.1331

Mars 56423-02-03 09:50 G 22329170.81 22329170.91 22329171.01 0.1820 0.1350

Earth 56426-02-18 04:05 G 22330281.56 22330281.67 22330281.78 0.2673 0.0166

Moon 56426-02-18 04:34 G 22330281.58 22330281.69 22330281.80 0.2678 0.0194 *

Jupiter 56426-11-09 18:43 G 22330546.17 22330546.28 22330546.40 0.0530 0.0231

Jupiter 56427-02-07 01:12 G 22330635.48 22330635.55 22330635.62 0.0527 0.0439

Earth 56428-08-23 03:50 G 22331198.51 22331198.66 22331198.81 0.2660 0.0712

Moon 56428-08-23 04:05 G 22331198.52 22331198.67 22331198.82 0.2667 0.0655 *

Saturn 56429-02-13 19:26 G 22331373.24 22331373.31 22331373.39 0.0268 0.0242

Saturn 56429-05-13 15:36 G 22331461.98 22331462.15 22331462.33 0.0268 0.0061

Saturn 56429-08-10 12:00 G 22331550.84 22331551.00 22331551.17 0.0267 0.0121

Mars 56431-09-01 16:05 G 22332303.06 22332303.17 22332303.29 0.1712 0.0370

Jupiter 56433-03-23 22:48 G 22332872.28 22332872.45 22332872.62 0.0499 0.0178

Venus 56437-02-01 07:26 G 22334282.66 22334282.81 22334282.97 0.3687 0.0957

Jupiter 56438-08-28 22:34 G 22334856.36 22334856.44 22334856.52 0.0530 0.0404

Jupiter 56438-11-26 05:17 G 22334945.61 22334945.72 22334945.83 0.0528 0.0272

Earth 56439-02-20 21:50 G 22335032.31 22335032.41 22335032.52 0.2671 0.1018

Moon 56439-02-20 22:34 G 22335032.34 22335032.44 22335032.54 0.2674 0.1165 *

Mars 56441-01-22 01:55 G 22335733.47 22335733.58 22335733.69 0.1706 0.0602

Saturn 56444-06-08 09:22 G 22336966.78 22336966.89 22336966.99 0.0293 0.0179

Saturn 56444-09-04 21:50 G 22337055.28 22337055.41 22337055.54 0.0293 0.0009

Saturn 56444-12-02 10:05 G 22337143.81 22337143.92 22337144.03 0.0293 0.0162

Jupiter 56445-01-09 20:38 G 22337182.17 22337182.36 22337182.54 0.0498 0.0028

Uranus 56445-04-08 04:19 G 22337270.60 22337270.68 22337270.77 0.0140 0.0123

Uranus 56445-07-05 12:00 G 22337358.86 22337359.00 22337359.15 0.0140 0.0093

Uranus 56445-10-01 19:41 G 22337447.16 22337447.32 22337447.50 0.0139 0.0063

Uranus 56445-12-29 03:36 G 22337535.46 22337535.65 22337535.84 0.0139 0.0033

Moon 56446-02-13 20:24 G 22337582.31 22337582.35 22337582.39 0.2680 0.2449

Earth 56446-02-13 20:53 G 22337582.32 22337582.37 22337582.42 0.2675 0.2357 *

Uranus 56446-03-27 11:17 G 22337623.78 22337623.97 22337624.16 0.0139 0.0003

Uranus 56446-06-23 18:58 G 22337712.11 22337712.29 22337712.49 0.0139 0.0028

Uranus 56446-09-20 02:38 G 22337800.45 22337800.61 22337800.80 0.0139 0.0058

Uranus 56446-12-17 10:34 G 22337888.80 22337888.94 22337889.10 0.0139 0.0088

Uranus 56447-03-15 18:29 G 22337977.17 22337977.27 22337977.37 0.0139 0.0118

Mars 56450-06-14 11:46 G 22339163.94 22339163.99 22339164.03 0.1701 0.1568

Jupiter 56450-09-14 09:07 G 22339255.75 22339255.88 22339256.01 0.0528 0.0102

Earth 56452-02-23 15:36 G 22339783.09 22339783.15 22339783.21 0.2670 0.2178

Moon 56452-02-23 16:19 G 22339783.12 22339783.18 22339783.24 0.2666 0.2184 *

Mars 56453-03-14 10:48 G 22340167.81 22340167.95 22340168.10 0.1813 0.0713

Jupiter 56456-10-28 18:14 G 22341492.10 22341492.26 22341492.43 0.0497 0.0228

Venus 56457-09-09 09:36 G 22341807.85 22341807.90 22341807.94 0.3684 0.3215

Saturn 56458-09-30 16:19 G 22342194.01 22342194.18 22342194.35 0.0268 0.0102

Saturn 56458-12-28 12:43 G 22342282.86 22342283.03 22342283.21 0.0267 0.0080

Moon 56459-02-16 14:53 G 22342333.02 22342333.12 22342333.22 0.2680 0.1184

Earth 56459-02-16 14:53 G 22342333.02 22342333.12 22342333.22 0.2674 0.1140 *

Saturn 56459-03-27 09:07 G 22342371.86 22342371.88 22342371.91 0.0267 0.0264

Neptune 56459-05-16 13:12 G 22342422.02 22342422.05 22342422.10 0.0089 0.0085

Neptune 56459-08-12 14:38 G 22342510.05 22342510.11 22342510.19 0.0089 0.0077

Neptune 56459-11-08 16:05 G 22342598.09 22342598.17 22342598.26 0.0089 0.0068

Neptune 56460-02-04 17:31 G 22342686.14 22342686.23 22342686.33 0.0089 0.0060

Neptune 56460-05-02 18:58 G 22342774.19 22342774.29 22342774.40 0.0089 0.0052

Neptune 56460-07-29 20:24 G 22342862.24 22342862.35 22342862.47 0.0089 0.0044

Neptune 56460-10-25 21:50 G 22342950.29 22342950.41 22342950.53 0.0089 0.0036

Neptune 56461-01-21 23:02 G 22343038.34 22343038.46 22343038.59 0.0089 0.0029

Neptune 56461-04-20 00:29 G 22343126.39 22343126.52 22343126.65 0.0089 0.0020

Neptune 56461-07-17 01:55 G 22343214.45 22343214.58 22343214.71 0.0089 0.0013

Moon 56461-08-21 03:36 G 22343249.53 22343249.65 22343249.78 0.2665 0.1408

Earth 56461-08-21 04:19 G 22343249.54 22343249.68 22343249.82 0.2659 0.1228 *

Mars 56461-10-10 06:14 G 22343299.71 22343299.76 22343299.82 0.1718 0.1472

Neptune 56461-10-13 03:22 G 22343302.50 22343302.64 22343302.77 0.0089 0.0005

Neptune 56462-01-09 04:34 G 22343390.56 22343390.69 22343390.83 0.0089 0.0003

Neptune 56462-04-07 06:00 G 22343478.62 22343478.75 22343478.88 0.0089 0.0011

Jupiter 56462-07-03 12:29 G 22343565.89 22343566.02 22343566.14 0.0529 0.0081

Neptune 56462-07-04 07:12 G 22343566.67 22343566.80 22343566.93 0.0089 0.0019

Mars 56462-08-04 10:05 G 22343597.80 22343597.92 22343598.04 0.1820 0.1156

Neptune 56462-09-30 08:38 G 22343654.73 22343654.86 22343654.99 0.0089 0.0027

Neptune 56462-12-27 09:50 G 22343742.79 22343742.91 22343743.04 0.0089 0.0035

Neptune 56463-03-25 11:02 G 22343830.86 22343830.96 22343831.09 0.0089 0.0043

Venus 56463-03-26 00:43 G 22343831.43 22343831.53 22343831.63 0.3683 0.0780

Neptune 56463-06-21 12:43 G 22343918.92 22343919.03 22343919.14 0.0089 0.0050

Neptune 56463-09-17 13:55 G 22344006.98 22344007.08 22344007.18 0.0089 0.0058

Neptune 56463-12-14 15:07 G 22344095.05 22344095.13 22344095.23 0.0089 0.0066

Neptune 56464-03-11 16:19 G 22344183.12 22344183.18 22344183.27 0.0089 0.0074

Neptune 56464-06-07 18:00 G 22344271.20 22344271.25 22344271.30 0.0089 0.0081

Jupiter 56468-08-16 15:50 G 22345802.08 22345802.16 22345802.25 0.0497 0.0432

Venus 56468-10-08 15:50 G 22345855.07 22345855.16 22345855.25 0.3683 0.1636

Jupiter 56468-11-14 23:31 G 22345892.37 22345892.48 22345892.59 0.0499 0.0392

Mars 56471-03-02 16:05 G 22346730.06 22346730.17 22346730.29 0.1712 0.0501

Earth 56472-02-19 08:53 G 22347083.76 22347083.87 22347083.98 0.2672 0.0066

Moon 56472-02-19 09:22 G 22347083.78 22347083.89 22347084.00 0.2677 0.0165 *

Saturn 56473-10-26 13:12 G 22347698.95 22347699.05 22347699.14 0.0292 0.0205

Saturn 56474-01-23 01:41 G 22347787.44 22347787.57 22347787.70 0.0292 0.0035

Saturn 56474-04-21 13:55 G 22347875.97 22347876.08 22347876.20 0.0293 0.0135

Jupiter 56474-04-21 16:19 G 22347876.07 22347876.18 22347876.30 0.0530 0.0249 *

Jupiter 56474-07-19 23:02 G 22347965.38 22347965.46 22347965.53 0.0527 0.0423

Earth 56474-08-24 10:34 G 22348000.79 22348000.94 22348001.08 0.2660 0.1141

Moon 56474-08-24 10:48 G 22348000.82 22348000.95 22348001.09 0.2666 0.1284 *

Mars 56480-07-23 01:55 G 22350160.46 22350160.58 22350160.70 0.1707 0.0460

Jupiter 56480-09-02 19:55 G 22350202.16 22350202.33 22350202.50 0.0499 0.0166

Earth 56485-02-21 02:38 G 22351834.52 22351834.61 22351834.71 0.2671 0.1239

Moon 56485-02-21 03:22 G 22351834.55 22351834.64 22351834.74 0.2672 0.1259 *

Jupiter 56486-02-07 20:38 G 22352186.28 22352186.36 22352186.44 0.0531 0.0413

Jupiter 56486-05-08 03:22 G 22352275.53 22352275.64 22352275.75 0.0528 0.0267

Saturn 56488-02-17 16:48 G 22352926.05 22352926.20 22352926.36 0.0268 0.0144

Saturn 56488-05-16 13:12 G 22353014.87 22353015.05 22353015.23 0.0267 0.0037

Uranus 56488-07-07 01:12 G 22353066.55 22353066.55 22353066.55 0.0138 0.0138

Saturn 56488-08-13 09:36 G 22353103.80 22353103.90 22353104.00 0.0267 0.0219

Uranus 56488-10-03 04:34 G 22353154.62 22353154.69 22353154.76 0.0138 0.0118

Uranus 56488-12-30 07:41 G 22353242.74 22353242.82 22353242.92 0.0138 0.0098

Uranus 56489-03-28 11:17 G 22353330.86 22353330.97 22353331.08 0.0138 0.0077

Uranus 56489-06-24 14:24 G 22353418.99 22353419.10 22353419.23 0.0139 0.0057

Uranus 56489-09-20 18:00 G 22353507.12 22353507.25 22353507.37 0.0139 0.0036

Mars 56489-12-13 11:46 G 22353590.92 22353590.99 22353591.05 0.1701 0.1420

Uranus 56489-12-17 21:07 G 22353595.25 22353595.38 22353595.52 0.0139 0.0016

Uranus 56490-03-16 00:29 G 22353683.39 22353683.52 22353683.65 0.0139 0.0005

Uranus 56490-06-12 03:50 G 22353771.53 22353771.66 22353771.79 0.0139 0.0026

Uranus 56490-09-08 06:58 G 22353859.67 22353859.79 22353859.92 0.0139 0.0046

Uranus 56490-12-05 10:19 G 22353947.82 22353947.93 22353948.05 0.0139 0.0067

Uranus 56491-03-03 13:26 G 22354035.97 22354036.06 22354036.17 0.0139 0.0087

Uranus 56491-05-30 16:48 G 22354124.12 22354124.20 22354124.29 0.0139 0.0108

Uranus 56491-08-26 20:10 G 22354212.29 22354212.34 22354212.39 0.0139 0.0128

Moon 56492-02-15 01:12 G 22354384.49 22354384.55 22354384.62 0.2680 0.2150

Earth 56492-02-15 01:41 G 22354384.51 22354384.57 22354384.64 0.2675 0.2126 *

Jupiter 56492-06-21 17:31 G 22354512.05 22354512.23 22354512.41 0.0498 0.0039

Mars 56492-09-12 11:17 G 22354594.84 22354594.97 22354595.11 0.1813 0.0934

Earth 56498-02-23 20:24 G 22356585.31 22356585.35 22356585.40 0.2670 0.2395

Moon 56498-02-23 21:07 G 22356585.35 22356585.38 22356585.41 0.2665 0.2522 *

Jupiter 56498-02-24 07:26 G 22356585.68 22356585.81 22356585.94 0.0528 0.0099

Mars 56501-04-11 06:29 G 22357726.73 22357726.77 22357726.80 0.1718 0.1614

Mars 56502-02-03 10:34 G 22358024.81 22358024.94 22358025.08 0.1820 0.0919

Saturn 56503-03-16 14:24 G 22358431.05 22358431.10 22358431.16 0.0292 0.0262

Saturn 56503-06-13 03:07 G 22358519.50 22358519.63 22358519.76 0.0293 0.0090

Saturn 56503-09-09 15:36 G 22358608.02 22358608.15 22358608.28 0.0293 0.0081

Saturn 56503-12-07 03:50 G 22358696.59 22358696.66 22358696.73 0.0294 0.0250

Jupiter 56504-04-10 15:22 G 22358821.99 22358822.14 22358822.30 0.0498 0.0240

Moon 56505-02-17 19:55 G 22359135.22 22359135.33 22359135.43 0.2680 0.0921

Earth 56505-02-17 19:55 G 22359135.22 22359135.33 22359135.43 0.2674 0.0915 *

Moon 56507-08-23 10:05 G 22360051.78 22360051.92 22360052.07 0.2665 0.0782

Earth 56507-08-23 10:48 G 22360051.80 22360051.95 22360052.09 0.2659 0.0814 *

Jupiter 56509-12-14 11:17 G 22360895.84 22360895.97 22360896.10 0.0529 0.0074

Mars 56510-09-01 16:05 G 22361157.06 22361157.17 22361157.29 0.1712 0.0646

Venus 56514-04-17 06:43 G 22362480.71 22362480.78 22362480.86 0.3684 0.2307

Jupiter 56516-01-28 13:26 G 22363131.98 22363132.06 22363132.15 0.0497 0.0436

Jupiter 56516-04-27 21:07 G 22363222.27 22363222.38 22363222.50 0.0499 0.0389

Saturn 56517-07-07 17:17 G 22363658.09 22363658.22 22363658.35 0.0268 0.0188

Saturn 56517-10-04 13:26 G 22363746.88 22363747.06 22363747.25 0.0268 0.0008

Saturn 56518-01-01 09:50 G 22363835.77 22363835.91 22363836.05 0.0267 0.0175

Earth 56518-02-20 13:41 G 22363885.96 22363886.07 22363886.18 0.2672 0.0298

Moon 56518-02-20 14:24 G 22363885.99 22363886.10 22363886.21 0.2677 0.0335 *

Venus 56519-10-31 22:05 G 22364504.32 22364504.42 22364504.52 0.3683 0.0132

Mars 56520-01-23 01:55 G 22364587.46 22364587.58 22364587.70 0.1706 0.0317

Earth 56520-08-25 17:02 G 22364803.09 22364803.21 22364803.34 0.2660 0.1584

Moon 56520-08-25 18:00 G 22364803.12 22364803.25 22364803.37 0.2666 0.1573 *

Jupiter 56521-10-02 14:24 G 22365205.99 22365206.10 22365206.22 0.0530 0.0259

Jupiter 56521-12-30 21:07 G 22365295.30 22365295.38 22365295.45 0.0527 0.0413

Venus 56525-05-16 13:12 G 22366527.98 22366528.05 22366528.12 0.3683 0.2524

Jupiter 56528-02-14 18:29 G 22367532.10 22367532.27 22367532.44 0.0499 0.0176

Uranus 56529-04-29 11:31 G 22367971.88 22367971.98 22367972.10 0.0140 0.0115

Mars 56529-06-14 11:46 G 22368017.91 22368017.99 22368018.07 0.1701 0.1283

Uranus 56529-07-26 19:12 G 22368060.16 22368060.30 22368060.46 0.0140 0.0085

Uranus 56529-10-23 03:07 G 22368148.45 22368148.63 22368148.80 0.0139 0.0055

Uranus 56530-01-19 10:48 G 22368236.76 22368236.95 22368237.14 0.0139 0.0025

Uranus 56530-04-17 18:29 G 22368325.08 22368325.27 22368325.47 0.0139 0.0006

Uranus 56530-07-15 02:24 G 22368413.41 22368413.60 22368413.78 0.0139 0.0036

Uranus 56530-10-11 09:50 G 22368501.75 22368501.91 22368502.09 0.0139 0.0066

Uranus 56531-01-07 17:46 G 22368590.11 22368590.24 22368590.39 0.0139 0.0096

Earth 56531-02-23 07:41 G 22368636.72 22368636.82 22368636.91 0.2671 0.1461

Moon 56531-02-23 08:10 G 22368636.76 22368636.84 22368636.93 0.2670 0.1589 *

Uranus 56531-04-06 01:26 G 22368678.49 22368678.56 22368678.65 0.0139 0.0126

Mars 56532-03-14 12:00 G 22369021.88 22369022.00 22369022.12 0.1813 0.1165

Saturn 56532-08-02 18:14 G 22369163.25 22369163.26 22369163.27 0.0292 0.0289

Saturn 56532-10-30 06:43 G 22369251.66 22369251.78 22369251.91 0.0292 0.0118

Saturn 56533-01-26 19:12 G 22369340.17 22369340.30 22369340.43 0.0293 0.0053

Saturn 56533-04-25 07:26 G 22369428.73 22369428.81 22369428.90 0.0293 0.0222

Jupiter 56533-07-21 18:14 G 22369516.19 22369516.26 22369516.34 0.0531 0.0430

Jupiter 56533-10-19 01:12 G 22369605.44 22369605.55 22369605.66 0.0528 0.0251

Moon 56538-02-16 06:14 G 22371186.69 22371186.76 22371186.83 0.2680 0.2003

Earth 56538-02-16 06:43 G 22371186.70 22371186.78 22371186.85 0.2675 0.1892 *

Jupiter 56539-12-03 14:38 G 22371841.93 22371842.11 22371842.30 0.0498 0.0050

Mars 56541-08-04 11:17 G 22372451.82 22372451.97 22372452.11 0.1820 0.0698

Neptune 56543-07-14 21:07 G 22373161.30 22373161.38 22373161.47 0.0088 0.0079

Neptune 56543-10-11 00:43 G 22373249.41 22373249.53 22373249.65 0.0088 0.0068

Neptune 56544-01-07 03:36 G 22373337.53 22373337.65 22373337.82 0.0088 0.0058

Earth 56544-02-26 01:12 G 22373387.54 22373387.55 22373387.57 0.2670 0.2614

Moon 56544-02-26 01:55 G 22373387.56 22373387.58 22373387.60 0.2665 0.2607 *

Neptune 56544-04-04 07:12 G 22373425.65 22373425.80 22373425.98 0.0088 0.0046

Neptune 56544-07-01 10:48 G 22373513.78 22373513.95 22373514.13 0.0088 0.0035

Neptune 56544-09-27 14:10 G 22373601.92 22373602.09 22373602.29 0.0088 0.0025

Venus 56544-09-30 01:55 G 22373604.45 22373604.58 22373604.72 0.3687 0.2015

Neptune 56544-12-24 17:46 G 22373690.06 22373690.24 22373690.44 0.0088 0.0013

Neptune 56545-03-22 21:22 G 22373778.20 22373778.39 22373778.58 0.0088 0.0002

Neptune 56545-06-19 00:43 G 22373866.34 22373866.53 22373866.73 0.0088 0.0009

Jupiter 56545-08-07 05:46 G 22373915.61 22373915.74 22373915.86 0.0529 0.0094

Neptune 56545-09-15 04:05 G 22373954.49 22373954.67 22373954.87 0.0088 0.0020

Neptune 56545-12-12 07:26 G 22374042.64 22374042.81 22374043.00 0.0088 0.0032

Neptune 56546-03-10 11:02 G 22374130.80 22374130.96 22374131.14 0.0088 0.0042

Neptune 56546-06-06 14:24 G 22374218.96 22374219.10 22374219.27 0.0088 0.0054

Neptune 56546-09-02 18:00 G 22374307.13 22374307.25 22374307.39 0.0088 0.0065

Saturn 56546-11-24 18:00 G 22374390.16 22374390.25 22374390.35 0.0268 0.0227

Neptune 56546-11-29 21:36 G 22374395.31 22374395.40 22374395.51 0.0088 0.0076

Saturn 56547-02-21 14:10 G 22374478.91 22374479.09 22374479.28 0.0267 0.0047

Neptune 56547-02-26 00:43 G 22374483.52 22374483.53 22374483.59 0.0088 0.0088

Saturn 56547-05-21 10:34 G 22374567.78 22374567.94 22374568.10 0.0267 0.0135

Mars 56550-03-02 16:19 G 22375584.07 22375584.18 22375584.28 0.1712 0.0794

Earth 56551-02-19 00:43 G 22375937.42 22375937.53 22375937.64 0.2673 0.0683

Moon 56551-02-19 00:58 G 22375937.43 22375937.54 22375937.64 0.2680 0.0640 *

Jupiter 56551-09-21 12:29 G 22376151.87 22376152.02 22376152.18 0.0497 0.0251

Moon 56553-08-23 17:02 G 22376854.06 22376854.21 22376854.36 0.2665 0.0490

Earth 56553-08-23 17:17 G 22376854.07 22376854.22 22376854.37 0.2659 0.0384 *

Jupiter 56557-05-26 09:36 G 22378225.78 22378225.90 22378226.03 0.0529 0.0077

Mars 56559-07-24 01:55 G 22379014.46 22379014.58 22379014.70 0.1706 0.0177

Pluto 56560-01-15 14:24 G 22379190.10 22379190.10 22379190.12 0.0067 0.0067

Pluto 56560-04-12 14:53 G 22379278.06 22379278.12 22379278.21 0.0067 0.0056

Pluto 56560-07-09 15:36 G 22379366.06 22379366.15 22379366.26 0.0067 0.0045

Pluto 56560-10-05 16:19 G 22379454.07 22379454.18 22379454.31 0.0067 0.0035

Pluto 56561-01-01 17:02 G 22379542.08 22379542.21 22379542.34 0.0067 0.0024

Pluto 56561-03-30 17:46 G 22379630.10 22379630.24 22379630.37 0.0067 0.0013

Pluto 56561-06-26 18:14 G 22379718.12 22379718.26 22379718.40 0.0067 0.0002

Pluto 56561-09-22 18:43 G 22379806.15 22379806.28 22379806.43 0.0068 0.0010

Pluto 56561-12-19 19:12 G 22379894.18 22379894.30 22379894.45 0.0068 0.0021

Pluto 56562-03-17 19:55 G 22379982.21 22379982.33 22379982.46 0.0068 0.0032

Saturn 56562-03-19 08:10 G 22379983.73 22379983.84 22379983.94 0.0293 0.0176

Pluto 56562-06-13 20:24 G 22380070.26 22380070.35 22380070.47 0.0068 0.0043

Saturn 56562-06-15 20:38 G 22380072.23 22380072.36 22380072.49 0.0293 0.0006

Pluto 56562-09-09 21:07 G 22380158.31 22380158.38 22380158.47 0.0068 0.0054

Saturn 56562-09-12 08:53 G 22380160.77 22380160.87 22380160.98 0.0294 0.0165

Pluto 56562-12-06 21:36 G 22380246.38 22380246.40 22380246.45 0.0068 0.0065

Jupiter 56563-07-10 10:48 G 22380461.87 22380461.95 22380462.02 0.0497 0.0447

Jupiter 56563-10-08 18:14 G 22380552.15 22380552.26 22380552.38 0.0500 0.0378

Earth 56564-02-21 18:29 G 22380688.17 22380688.27 22380688.38 0.2672 0.0516

Moon 56564-02-21 19:12 G 22380688.19 22380688.30 22380688.40 0.2677 0.0590 *

Earth 56566-08-26 23:46 G 22381605.38 22381605.49 22381605.59 0.2661 0.2016

Moon 56566-08-27 00:29 G 22381605.44 22381605.52 22381605.61 0.2667 0.2233 *

Mars 56568-12-13 11:46 G 22382444.90 22382444.99 22382445.08 0.1701 0.1134

Jupiter 56569-03-14 13:26 G 22382535.95 22382536.06 22382536.17 0.0530 0.0248

Jupiter 56569-06-11 19:55 G 22382625.26 22382625.33 22382625.41 0.0527 0.0422

Venus 56570-11-22 04:05 G 22383153.58 22383153.67 22383153.77 0.3684 0.1406

Mars 56571-09-13 12:14 G 22383448.91 22383449.01 22383449.11 0.1813 0.1379

Uranus 56572-07-28 07:55 G 22383767.81 22383767.83 22383767.86 0.0138 0.0135

Uranus 56572-10-24 11:17 G 22383855.90 22383855.97 22383856.05 0.0138 0.0114

Uranus 56573-01-20 14:38 G 22383944.02 22383944.11 22383944.21 0.0138 0.0094

Uranus 56573-04-18 18:00 G 22384032.14 22384032.25 22384032.37 0.0139 0.0073

Uranus 56573-07-15 21:22 G 22384120.27 22384120.39 22384120.52 0.0139 0.0053

Uranus 56573-10-12 00:43 G 22384208.40 22384208.53 22384208.66 0.0139 0.0032

Uranus 56574-01-08 04:05 G 22384296.54 22384296.67 22384296.80 0.0139 0.0012

Uranus 56574-04-06 07:26 G 22384384.67 22384384.81 22384384.94 0.0139 0.0009

Uranus 56574-07-03 10:34 G 22384472.81 22384472.94 22384473.07 0.0139 0.0029

Uranus 56574-09-29 13:55 G 22384560.96 22384561.08 22384561.20 0.0139 0.0050

Uranus 56574-12-26 17:02 G 22384649.11 22384649.21 22384649.33 0.0139 0.0070

Uranus 56575-03-24 20:24 G 22384737.26 22384737.35 22384737.45 0.0139 0.0090

Uranus 56575-06-20 23:46 G 22384825.41 22384825.49 22384825.57 0.0139 0.0111

Jupiter 56575-07-27 16:05 G 22384862.00 22384862.17 22384862.34 0.0499 0.0173

Uranus 56575-09-17 02:53 G 22384913.59 22384913.62 22384913.67 0.0139 0.0131

Venus 56576-06-06 19:26 G 22385177.21 22385177.31 22385177.40 0.3683 0.1027

Saturn 56576-07-10 13:55 G 22385210.91 22385211.08 22385211.26 0.0268 0.0096

Saturn 56576-10-07 10:19 G 22385299.76 22385299.93 22385300.10 0.0267 0.0086

Earth 56577-02-23 12:29 G 22385438.93 22385439.02 22385439.10 0.2671 0.1680

Moon 56577-02-23 13:12 G 22385438.96 22385439.05 22385439.13 0.2669 0.1730 *

Jupiter 56580-12-31 16:34 G 22386846.12 22386846.19 22386846.26 0.0531 0.0435

Mars 56581-02-02 11:31 G 22386878.83 22386878.98 22386879.13 0.1820 0.0493

Jupiter 56581-03-30 23:31 G 22386935.36 22386935.48 22386935.59 0.0528 0.0245

Venus 56581-12-21 10:34 G 22387200.90 22387200.94 22387200.97 0.3683 0.3402

Moon 56584-02-17 11:02 G 22387988.88 22387988.96 22387989.05 0.2680 0.1658

Earth 56584-02-17 11:31 G 22387988.89 22387988.98 22387989.07 0.2674 0.1661 *

Moon 56586-08-21 16:48 G 22388905.13 22388905.20 22388905.26 0.2663 0.2395

Earth 56586-08-21 17:46 G 22388905.17 22388905.24 22388905.32 0.2658 0.2290 *

Jupiter 56587-05-15 13:26 G 22389171.88 22389172.06 22389172.24 0.0498 0.0037

Mars 56589-08-31 16:05 G 22390011.07 22390011.17 22390011.27 0.1712 0.0923

Saturn 56591-08-06 11:31 G 22390715.89 22390715.98 22390716.07 0.0292 0.0208

Saturn 56591-11-03 00:00 G 22390804.37 22390804.50 22390804.63 0.0293 0.0037

Saturn 56592-01-30 12:29 G 22390892.90 22390893.02 22390893.14 0.0293 0.0134

Jupiter 56593-01-17 03:36 G 22391245.52 22391245.65 22391245.77 0.0529 0.0081

Earth 56597-02-19 05:31 G 22392739.62 22392739.73 22392739.84 0.2673 0.0454

Moon 56597-02-19 05:46 G 22392739.63 22392739.74 22392739.85 0.2680 0.0473 *

Mars 56599-01-22 01:55 G 22393441.46 22393441.58 22393441.71 0.1707 0.0064

Jupiter 56599-03-03 09:50 G 22393481.76 22393481.91 22393482.07 0.0497 0.0258

Moon 56599-08-25 00:00 G 22393656.34 22393656.50 22393656.65 0.2666 0.0115

Earth 56599-08-24 23:46 G 22393656.34 22393656.49 22393656.65 0.2659 0.0049 *

Venus 56601-05-08 04:19 G 22394277.52 22394277.68 22394277.83 0.3687 0.0890

Jupiter 56604-11-06 07:55 G 22395555.70 22395555.83 22395555.96 0.0530 0.0080

Saturn 56605-11-28 15:07 G 22395942.97 22395943.13 22395943.29 0.0268 0.0133

Saturn 56606-02-25 11:17 G 22396031.79 22396031.97 22396032.15 0.0267 0.0048

Saturn 56606-05-25 07:26 G 22396120.73 22396120.81 22396120.91 0.0267 0.0230

Mars 56608-06-14 11:46 G 22396871.89 22396871.99 22396872.09 0.1701 0.0990

Earth 56610-02-22 23:31 G 22397490.37 22397490.48 22397490.58 0.2672 0.0739

Moon 56610-02-23 00:00 G 22397490.40 22397490.50 22397490.61 0.2675 0.0824 *

Jupiter 56610-12-21 08:10 G 22397791.77 22397791.84 22397791.91 0.0497 0.0455

Mars 56611-03-15 12:43 G 22397875.96 22397876.03 22397876.11 0.1813 0.1598

Jupiter 56611-03-21 15:36 G 22397882.03 22397882.15 22397882.27 0.0499 0.0368

Earth 56612-08-28 06:14 G 22398407.71 22398407.76 22398407.82 0.2661 0.2460

Moon 56612-08-28 07:12 G 22398407.75 22398407.80 22398407.86 0.2667 0.2475 *

Uranus 56613-02-21 10:34 G 22398584.93 22398584.94 22398584.99 0.0140 0.0138

Uranus 56613-05-20 18:29 G 22398673.16 22398673.27 22398673.40 0.0140 0.0108

Uranus 56613-08-17 02:10 G 22398761.44 22398761.59 22398761.76 0.0140 0.0078

Uranus 56613-11-13 10:05 G 22398849.74 22398849.92 22398850.10 0.0139 0.0048

Uranus 56614-02-09 17:46 G 22398938.05 22398938.24 22398938.43 0.0139 0.0018

Uranus 56614-05-09 01:26 G 22399026.37 22399026.56 22399026.75 0.0139 0.0013

Uranus 56614-08-05 09:07 G 22399114.70 22399114.88 22399115.07 0.0139 0.0043

Uranus 56614-11-01 16:48 G 22399203.05 22399203.20 22399203.37 0.0139 0.0073

Uranus 56615-01-29 00:29 G 22399291.41 22399291.52 22399291.66 0.0139 0.0103

Uranus 56615-04-27 08:24 G 22399379.81 22399379.85 22399379.91 0.0139 0.0133

Jupiter 56616-08-25 12:00 G 22399865.89 22399866.00 22399866.11 0.0530 0.0247

Jupiter 56616-11-22 18:29 G 22399955.20 22399955.27 22399955.35 0.0527 0.0424

Earth 56617-02-15 22:19 G 22400040.42 22400040.43 22400040.44 0.2676 0.2656

Mars 56620-08-04 12:00 G 22401305.85 22401306.00 22401306.16 0.1820 0.0262

Saturn 56620-12-24 12:14 G 22401447.97 22401448.01 22401448.06 0.0292 0.0270

Saturn 56621-03-23 00:58 G 22401536.41 22401536.54 22401536.67 0.0293 0.0098

Saturn 56621-06-19 13:26 G 22401624.93 22401625.06 22401625.19 0.0293 0.0072

Saturn 56621-09-16 01:41 G 22401713.50 22401713.57 22401713.65 0.0294 0.0242

Venus 56621-12-14 10:19 G 22401802.87 22401802.93 22401802.98 0.3684 0.2944

Jupiter 56623-01-07 13:26 G 22402191.89 22402192.06 22402192.23 0.0499 0.0164

Earth 56623-02-25 17:17 G 22402241.14 22402241.22 22402241.29 0.2671 0.1898

Moon 56623-02-25 18:00 G 22402241.18 22402241.25 22402241.32 0.2669 0.2003 *

Neptune 56623-11-16 11:46 G 22402504.98 22402504.99 22402505.02 0.0089 0.0088

Neptune 56624-02-12 13:12 G 22402593.00 22402593.05 22402593.12 0.0089 0.0080

Neptune 56624-05-10 14:24 G 22402681.04 22402681.10 22402681.20 0.0089 0.0073

Neptune 56624-08-06 15:50 G 22402769.08 22402769.16 22402769.27 0.0089 0.0064

Neptune 56624-11-02 17:17 G 22402857.13 22402857.22 22402857.34 0.0089 0.0056

Neptune 56625-01-29 18:43 G 22402945.18 22402945.28 22402945.40 0.0089 0.0048

Neptune 56625-04-27 20:10 G 22403033.23 22403033.34 22403033.47 0.0089 0.0040

Neptune 56625-07-24 21:36 G 22403121.28 22403121.40 22403121.53 0.0089 0.0032

Neptune 56625-10-20 23:02 G 22403209.33 22403209.46 22403209.59 0.0089 0.0024

Neptune 56626-01-17 00:29 G 22403297.39 22403297.52 22403297.65 0.0089 0.0016

Neptune 56626-04-15 01:55 G 22403385.44 22403385.58 22403385.71 0.0089 0.0008

Neptune 56626-07-12 03:07 G 22403473.50 22403473.63 22403473.77 0.0089 0.0001

Neptune 56626-10-08 04:34 G 22403561.56 22403561.69 22403561.82 0.0089 0.0008

Neptune 56627-01-04 05:46 G 22403649.61 22403649.74 22403649.88 0.0089 0.0016

Neptune 56627-04-02 07:12 G 22403737.67 22403737.80 22403737.93 0.0089 0.0023

Neptune 56627-06-29 08:38 G 22403825.73 22403825.86 22403825.98 0.0089 0.0031

Venus 56627-06-30 01:26 G 22403826.46 22403826.56 22403826.66 0.3683 0.0502

Neptune 56627-09-25 09:50 G 22403913.79 22403913.91 22403914.03 0.0089 0.0039

Neptune 56627-12-22 11:02 G 22404001.86 22404001.96 22404002.08 0.0089 0.0047

Neptune 56628-03-19 12:29 G 22404089.92 22404090.02 22404090.13 0.0089 0.0055

Jupiter 56628-06-13 15:36 G 22404176.08 22404176.15 22404176.23 0.0531 0.0422

Neptune 56628-06-15 13:41 G 22404177.99 22404178.07 22404178.17 0.0089 0.0063

Jupiter 56628-09-10 22:34 G 22404265.33 22404265.44 22404265.55 0.0528 0.0258

Neptune 56628-09-11 15:07 G 22404266.06 22404266.13 22404266.22 0.0089 0.0070

Neptune 56628-12-08 16:19 G 22404354.13 22404354.18 22404354.25 0.0089 0.0078

Mars 56629-03-02 16:19 G 22404438.08 22404438.18 22404438.27 0.1712 0.1072

Neptune 56629-03-06 17:46 G 22404442.22 22404442.24 22404442.28 0.0089 0.0086

Moon 56630-02-18 16:05 G 22404791.08 22404791.17 22404791.27 0.2680 0.1521

Earth 56630-02-18 16:19 G 22404791.09 22404791.18 22404791.28 0.2674 0.1430 *

Moon 56632-08-22 23:17 G 22405707.38 22405707.47 22405707.57 0.2663 0.2012

Earth 56632-08-23 00:14 G 22405707.40 22405707.51 22405707.62 0.2658 0.1871 *

Venus 56633-01-12 16:34 G 22405850.11 22405850.19 22405850.28 0.3683 0.1903

Jupiter 56634-10-26 11:31 G 22406501.80 22406501.98 22406502.16 0.0498 0.0037

Saturn 56635-04-17 14:24 G 22406674.97 22406675.10 22406675.23 0.0268 0.0187

Saturn 56635-07-15 10:34 G 22406763.75 22406763.94 22406764.12 0.0267 0.0009

Saturn 56635-10-12 06:43 G 22406852.64 22406852.78 22406852.92 0.0267 0.0175

Mars 56638-07-24 01:55 G 22407868.46 22407868.58 22407868.70 0.1706 0.0110

Jupiter 56640-06-30 01:55 G 22408575.46 22408575.58 22408575.71 0.0529 0.0082

Earth 56643-02-21 10:19 G 22409541.82 22409541.93 22409542.04 0.2673 0.0236

Moon 56643-02-21 10:48 G 22409541.84 22409541.95 22409542.06 0.2679 0.0162 *

Earth 56645-08-26 06:14 G 22410458.61 22410458.76 22410458.92 0.2659 0.0471

Moon 56645-08-26 06:43 G 22410458.63 22410458.78 22410458.93 0.2666 0.0504 *

Jupiter 56646-08-14 09:07 G 22410811.72 22410811.88 22410812.04 0.0497 0.0240

Pluto 56647-01-31 15:22 G 22410982.06 22410982.14 22410982.22 0.0077 0.0069

Pluto 56647-04-29 17:17 G 22411070.09 22411070.22 22411070.38 0.0077 0.0048

Pluto 56647-07-26 19:41 G 22411158.15 22411158.32 22411158.50 0.0077 0.0026

Pluto 56647-10-22 22:05 G 22411246.23 22411246.42 22411246.60 0.0077 0.0005

Mars 56647-12-14 11:46 G 22411298.89 22411298.99 22411299.10 0.1701 0.0852

Pluto 56648-01-19 00:14 G 22411334.33 22411334.51 22411334.69 0.0077 0.0016

Pluto 56648-04-16 02:24 G 22411422.44 22411422.60 22411422.76 0.0077 0.0037

Pluto 56648-07-13 04:34 G 22411510.57 22411510.69 22411510.81 0.0077 0.0058

Saturn 56650-08-10 04:05 G 22412268.55 22412268.67 22412268.79 0.0293 0.0134

Saturn 56650-11-06 16:34 G 22412357.06 22412357.19 22412357.32 0.0293 0.0037

Saturn 56651-02-03 04:48 G 22412445.61 22412445.70 22412445.80 0.0293 0.0207

Jupiter 56652-04-18 06:00 G 22412885.63 22412885.75 22412885.88 0.0530 0.0088

Earth 56656-02-24 04:19 G 22414292.57 22414292.68 22414292.78 0.2672 0.0957

Moon 56656-02-24 05:02 G 22414292.60 22414292.71 22414292.81 0.2673 0.1003 *

Uranus 56656-08-18 14:53 G 22414469.08 22414469.12 22414469.16 0.0138 0.0131

Uranus 56656-11-14 18:14 G 22414557.18 22414557.26 22414557.34 0.0138 0.0110

Uranus 56657-02-10 21:36 G 22414645.30 22414645.40 22414645.50 0.0138 0.0090

Uranus 56657-05-10 00:58 G 22414733.43 22414733.54 22414733.66 0.0138 0.0069

Uranus 56657-08-06 04:19 G 22414821.56 22414821.68 22414821.80 0.0139 0.0049

Uranus 56657-11-02 07:41 G 22414909.69 22414909.82 22414909.95 0.0139 0.0029

Uranus 56658-01-29 11:02 G 22414997.82 22414997.96 22414998.09 0.0139 0.0009

Uranus 56658-04-27 14:10 G 22415085.96 22415086.09 22415086.23 0.0139 0.0013

Jupiter 56658-06-02 05:46 G 22415121.67 22415121.74 22415121.81 0.0497 0.0458

Uranus 56658-07-24 17:31 G 22415174.10 22415174.23 22415174.36 0.0139 0.0033

Jupiter 56658-08-31 13:12 G 22415211.93 22415212.05 22415212.17 0.0499 0.0363

Uranus 56658-10-20 20:53 G 22415262.25 22415262.37 22415262.49 0.0139 0.0053

Uranus 56659-01-17 00:00 G 22415350.39 22415350.50 22415350.62 0.0139 0.0074

Uranus 56659-04-15 03:22 G 22415438.55 22415438.64 22415438.74 0.0139 0.0094

Uranus 56659-07-12 06:29 G 22415526.71 22415526.77 22415526.85 0.0139 0.0115

Uranus 56659-10-08 09:50 G 22415614.89 22415614.91 22415614.95 0.0139 0.0135

Mars 56660-02-03 12:43 G 22415732.87 22415733.03 22415733.18 0.1820 0.0047

Moon 56663-02-17 02:24 G 22416842.57 22416842.60 22416842.63 0.2679 0.2556

Earth 56663-02-17 03:07 G 22416842.58 22416842.63 22416842.67 0.2675 0.2421 *

Jupiter 56664-02-05 10:19 G 22417195.82 22417195.93 22417196.05 0.0530 0.0250

Jupiter 56664-05-04 17:02 G 22417285.13 22417285.21 22417285.28 0.0528 0.0424

Saturn 56664-09-03 15:22 G 22417407.04 22417407.14 22417407.24 0.0268 0.0224

Saturn 56664-12-01 11:17 G 22417495.79 22417495.97 22417496.16 0.0267 0.0045

Saturn 56665-02-28 07:41 G 22417584.66 22417584.82 22417584.98 0.0267 0.0136

Mars 56668-08-31 16:19 G 22418865.09 22418865.18 22418865.26 0.1712 0.1212

Earth 56669-02-25 22:05 G 22419043.36 22419043.42 22419043.49 0.2671 0.2118

Moon 56669-02-25 22:48 G 22419043.39 22419043.45 22419043.51 0.2668 0.2188 *

Jupiter 56670-06-19 10:48 G 22419521.78 22419521.95 22419522.13 0.0499 0.0159

Jupiter 56675-11-24 14:24 G 22421506.02 22421506.10 22421506.18 0.0531 0.0418

Moon 56676-02-19 21:07 G 22421593.28 22421593.38 22421593.48 0.2681 0.1157

Earth 56676-02-19 21:22 G 22421593.29 22421593.39 22421593.48 0.2674 0.1207 *

Jupiter 56676-02-21 21:22 G 22421595.28 22421595.39 22421595.50 0.0528 0.0263

Mars 56678-01-22 02:10 G 22422295.47 22422295.59 22422295.70 0.1707 0.0261

Venus 56678-07-21 07:26 G 22422475.73 22422475.81 22422475.90 0.3684 0.2037

Moon 56678-08-24 06:00 G 22422509.63 22422509.75 22422509.88 0.2664 0.1473

Earth 56678-08-24 06:43 G 22422509.65 22422509.78 22422509.91 0.2658 0.1464 *

Saturn 56679-12-28 04:48 G 22423000.60 22423000.70 22423000.80 0.0292 0.0198

Saturn 56680-03-25 17:17 G 22423089.09 22423089.22 22423089.36 0.0293 0.0029

Saturn 56680-06-22 05:46 G 22423177.63 22423177.74 22423177.86 0.0293 0.0143

Jupiter 56682-04-07 08:53 G 22423831.69 22423831.87 22423832.05 0.0498 0.0042

Venus 56684-02-03 22:48 G 22424499.35 22424499.45 22424499.55 0.3683 0.0398

Mars 56687-06-14 11:46 G 22425725.88 22425725.99 22425726.10 0.1701 0.0705

Jupiter 56687-12-11 01:12 G 22425905.43 22425905.55 22425905.68 0.0529 0.0098

Earth 56689-02-21 15:07 G 22426344.02 22426344.13 22426344.25 0.2673 0.0113

Moon 56689-02-21 15:36 G 22426344.04 22426344.15 22426344.26 0.2679 0.0031 *

Venus 56689-08-19 13:55 G 22426523.02 22426523.08 22426523.14 0.3683 0.2793

Earth 56691-08-27 12:58 G 22427260.89 22427261.04 22427261.18 0.2660 0.0900

Moon 56691-08-27 13:12 G 22427260.91 22427261.05 22427261.20 0.2667 0.0939 *

Jupiter 56694-01-24 07:12 G 22428141.64 22428141.80 22428141.96 0.0498 0.0237

Saturn 56694-04-20 09:50 G 22428227.74 22428227.91 22428228.08 0.0268 0.0105

Saturn 56694-07-18 06:00 G 22428316.58 22428316.75 22428316.93 0.0267 0.0076

Saturn 56694-10-15 02:10 G 22428405.56 22428405.59 22428405.65 0.0267 0.0259

Mars 56696-11-03 21:22 G 22429156.38 22429156.39 22429156.41 0.1695 0.1667

Uranus 56697-03-13 17:17 G 22429286.17 22429286.22 22429286.30 0.0140 0.0132

Uranus 56697-06-10 01:12 G 22429374.42 22429374.55 22429374.68 0.0140 0.0102

Uranus 56697-09-06 08:53 G 22429462.71 22429462.87 22429463.04 0.0140 0.0072

Uranus 56697-12-03 16:34 G 22429551.01 22429551.19 22429551.38 0.0139 0.0042

Uranus 56698-03-02 00:14 G 22429639.32 22429639.51 22429639.71 0.0139 0.0012

Uranus 56698-05-29 07:55 G 22429727.65 22429727.83 22429728.03 0.0139 0.0019

Uranus 56698-08-25 15:50 G 22429815.98 22429816.16 22429816.34 0.0139 0.0048

Uranus 56698-11-21 23:31 G 22429904.32 22429904.48 22429904.64 0.0139 0.0078

Uranus 56699-02-18 06:58 G 22429992.69 22429992.79 22429992.93 0.0139 0.0109

Uranus 56699-05-17 14:53 G 22430081.12 22430081.12 22430081.14 0.0139 0.0139

Mars 56699-08-04 12:58 G 22430159.88 22430160.04 22430160.19 0.1820 0.0175

Jupiter 56699-09-29 04:48 G 22430215.57 22430215.70 22430215.83 0.0529 0.0084

Earth 56702-02-25 09:07 G 22431094.78 22431094.88 22431094.98 0.2672 0.1177

Moon 56702-02-25 09:50 G 22431094.82 22431094.91 22431095.01 0.2672 0.1322 *

Jupiter 56705-11-13 05:02 G 22432451.63 22432451.71 22432451.80 0.0497 0.0437

Jupiter 56706-02-11 12:29 G 22432541.91 22432542.02 22432542.14 0.0499 0.0386

Neptune 56708-01-14 16:34 G 22433244.14 22433244.19 22433244.26 0.0088 0.0083

Mars 56708-03-02 16:05 G 22433292.10 22433292.17 22433292.25 0.1712 0.1346

Neptune 56708-04-11 19:55 G 22433332.24 22433332.33 22433332.45 0.0088 0.0073

Neptune 56708-07-08 23:31 G 22433420.35 22433420.48 22433420.62 0.0088 0.0062

Neptune 56708-10-05 03:07 G 22433508.47 22433508.63 22433508.78 0.0088 0.0051

Mars 56708-12-25 12:43 G 22433589.96 22433590.03 22433590.09 0.1827 0.1647

Neptune 56709-01-01 06:29 G 22433596.60 22433596.77 22433596.94 0.0088 0.0040

Venus 56709-01-03 22:34 G 22433599.32 22433599.44 22433599.57 0.3687 0.2094

Moon 56709-02-18 07:26 G 22433644.75 22433644.81 22433644.87 0.2679 0.2228

Earth 56709-02-18 07:55 G 22433644.77 22433644.83 22433644.90 0.2675 0.2191 *

Neptune 56709-03-30 09:36 G 22433684.73 22433684.90 22433685.10 0.0088 0.0030

Saturn 56709-05-17 07:26 G 22433732.73 22433732.81 22433732.88 0.0292 0.0240

Neptune 56709-06-26 13:12 G 22433772.87 22433773.05 22433773.25 0.0088 0.0018

Saturn 56709-08-13 19:55 G 22433821.20 22433821.33 22433821.46 0.0293 0.0069

Neptune 56709-09-22 16:48 G 22433861.01 22433861.20 22433861.39 0.0088 0.0007

Saturn 56709-11-10 08:24 G 22433909.73 22433909.85 22433909.98 0.0293 0.0102

Neptune 56709-12-19 20:10 G 22433949.15 22433949.34 22433949.54 0.0088 0.0005

Saturn 56710-02-06 20:38 G 22433998.32 22433998.36 22433998.42 0.0294 0.0271

Neptune 56710-03-17 23:31 G 22434037.30 22434037.48 22434037.68 0.0088 0.0016

Neptune 56710-06-14 03:07 G 22434125.45 22434125.63 22434125.82 0.0088 0.0026

Neptune 56710-09-10 06:29 G 22434213.60 22434213.77 22434213.95 0.0088 0.0038

Neptune 56710-12-07 09:50 G 22434301.76 22434301.91 22434302.08 0.0088 0.0049

Neptune 56711-03-05 13:26 G 22434389.93 22434390.06 22434390.21 0.0088 0.0060

Neptune 56711-06-01 17:02 G 22434478.10 22434478.21 22434478.33 0.0088 0.0071

Jupiter 56711-07-19 08:38 G 22434525.75 22434525.86 22434525.98 0.0530 0.0253

Neptune 56711-08-28 20:10 G 22434566.29 22434566.34 22434566.43 0.0088 0.0082

Jupiter 56711-10-16 15:22 G 22434615.06 22434615.14 22434615.21 0.0527 0.0420

Earth 56715-02-28 02:53 G 22435845.57 22435845.62 22435845.67 0.2670 0.2337

Moon 56715-02-28 03:22 G 22435845.60 22435845.64 22435845.69 0.2667 0.2385 *

Mars 56717-07-24 02:10 G 22436722.47 22436722.59 22436722.70 0.1707 0.0398

Jupiter 56717-11-30 08:53 G 22436851.70 22436851.87 22436852.04 0.0498 0.0159

Earth 56722-02-21 02:10 G 22438395.48 22438395.59 22438395.69 0.2674 0.0974

Moon 56722-02-21 02:10 G 22438395.49 22438395.59 22438395.69 0.2681 0.1022 *

Jupiter 56723-05-07 12:58 G 22438835.96 22438836.04 22438836.12 0.0531 0.0418

Jupiter 56723-08-04 19:55 G 22438925.22 22438925.33 22438925.44 0.0528 0.0265

Saturn 56723-09-08 10:48 G 22438959.80 22438959.95 22438960.11 0.0268 0.0142

Saturn 56723-12-06 06:58 G 22439048.61 22439048.79 22439048.97 0.0267 0.0038

Saturn 56724-03-04 03:07 G 22439137.53 22439137.63 22439137.74 0.0267 0.0220

Moon 56724-08-25 12:58 G 22439311.90 22439312.04 22439312.18 0.2665 0.1161

Earth 56724-08-25 13:12 G 22439311.91 22439312.05 22439312.19 0.2658 0.1037 *

Mars 56726-12-14 12:00 G 22440152.88 22440153.00 22440153.11 0.1701 0.0563

Venus 56729-08-12 13:41 G 22441125.05 22441125.07 22441125.09 0.3684 0.3573

Jupiter 56729-09-18 06:43 G 22441161.60 22441161.78 22441161.96 0.0498 0.0043

Earth 56735-02-23 20:10 G 22443146.22 22443146.34 22443146.45 0.2673 0.0246

Moon 56735-02-23 20:38 G 22443146.25 22443146.36 22443146.47 0.2677 0.0353 *

Venus 56735-02-26 04:48 G 22443148.61 22443148.70 22443148.80 0.3683 0.1126

Jupiter 56735-05-24 00:14 G 22443235.38 22443235.51 22443235.63 0.0529 0.0105

Mars 56736-05-05 21:36 G 22443583.35 22443583.40 22443583.45 0.1695 0.1516

Earth 56737-08-28 19:26 G 22444063.17 22444063.31 22444063.44 0.2660 0.1324

Moon 56737-08-28 19:55 G 22444063.20 22444063.33 22444063.46 0.2666 0.1429 *

Saturn 56738-12-31 20:38 G 22444553.24 22444553.36 22444553.48 0.0292 0.0134

Mars 56739-02-03 13:26 G 22444586.91 22444587.06 22444587.22 0.1820 0.0409

Saturn 56739-03-30 09:07 G 22444641.75 22444641.88 22444642.01 0.0293 0.0037

Saturn 56739-06-26 21:36 G 22444730.30 22444730.40 22444730.49 0.0293 0.0206

Uranus 56740-09-08 21:36 G 22445170.36 22445170.40 22445170.46 0.0138 0.0127

Venus 56740-09-10 20:10 G 22445172.24 22445172.34 22445172.43 0.3683 0.1303

Uranus 56740-12-06 01:12 G 22445258.46 22445258.55 22445258.63 0.0138 0.0107

Uranus 56741-03-04 04:19 G 22445346.58 22445346.68 22445346.79 0.0138 0.0086

Uranus 56741-05-31 07:55 G 22445434.71 22445434.83 22445434.94 0.0138 0.0066

Jupiter 56741-07-07 05:02 G 22445471.55 22445471.71 22445471.87 0.0497 0.0240

Uranus 56741-08-27 11:02 G 22445522.84 22445522.96 22445523.09 0.0139 0.0046

Uranus 56741-11-23 14:24 G 22445610.97 22445611.10 22445611.23 0.0139 0.0025

Uranus 56742-02-19 17:46 G 22445699.11 22445699.24 22445699.37 0.0139 0.0005

Uranus 56742-05-18 21:07 G 22445787.25 22445787.38 22445787.51 0.0139 0.0016

Uranus 56742-08-15 00:29 G 22445875.39 22445875.52 22445875.65 0.0139 0.0037

Uranus 56742-11-11 03:36 G 22445963.54 22445963.65 22445963.78 0.0139 0.0057

Uranus 56743-02-07 06:58 G 22446051.68 22446051.79 22446051.90 0.0139 0.0077

Uranus 56743-05-06 10:05 G 22446139.84 22446139.92 22446140.02 0.0139 0.0098

Uranus 56743-08-02 13:26 G 22446228.00 22446228.06 22446228.14 0.0139 0.0118

Uranus 56743-10-29 16:48 G 22446316.19 22446316.20 22446316.22 0.0139 0.0139

Jupiter 56747-03-12 04:05 G 22447545.55 22447545.67 22447545.80 0.0529 0.0066

Mars 56747-09-01 16:19 G 22447719.12 22447719.18 22447719.23 0.1712 0.1488

Earth 56748-02-26 13:55 G 22447896.99 22447897.08 22447897.18 0.2671 0.1400

Moon 56748-02-26 14:38 G 22447897.02 22447897.11 22447897.21 0.2672 0.1430 *

Mars 56748-06-25 12:43 G 22448016.94 22448017.03 22448017.12 0.1827 0.1459

Saturn 56753-01-25 08:38 G 22449691.75 22449691.86 22449691.98 0.0268 0.0208

Saturn 56753-04-24 04:48 G 22449780.52 22449780.70 22449780.88 0.0267 0.0028

Jupiter 56753-04-25 03:22 G 22449781.56 22449781.64 22449781.73 0.0497 0.0431

Saturn 56753-07-22 00:58 G 22449869.39 22449869.54 22449869.70 0.0267 0.0153

Jupiter 56753-07-24 10:48 G 22449871.85 22449871.95 22449872.07 0.0499 0.0393

Moon 56755-02-19 12:29 G 22450446.95 22450447.02 22450447.09 0.2680 0.2018

Earth 56755-02-19 12:58 G 22450446.96 22450447.04 22450447.11 0.2675 0.1959 *

Mars 56757-01-22 02:10 G 22451149.47 22451149.59 22451149.70 0.1706 0.0537

Jupiter 56758-12-29 07:41 G 22451855.70 22451855.82 22451855.93 0.0530 0.0245

Jupiter 56759-03-28 14:10 G 22451945.02 22451945.09 22451945.17 0.0527 0.0428

Earth 56761-02-28 07:41 G 22452647.80 22452647.82 22452647.85 0.2670 0.2556

Moon 56761-02-28 08:10 G 22452647.83 22452647.84 22452647.85 0.2665 0.2641 *

Jupiter 56765-05-12 08:24 G 22454181.69 22454181.85 22454182.02 0.0499 0.0186

Venus 56765-08-11 00:58 G 22454272.39 22454272.54 22454272.69 0.3687 0.0805

Mars 56766-06-14 11:46 G 22454579.88 22454579.99 22454580.11 0.1701 0.0425

Earth 56768-02-22 06:58 G 22455197.68 22455197.79 22455197.90 0.2674 0.0747

Moon 56768-02-22 06:58 G 22455197.69 22455197.79 22455197.90 0.2681 0.0702 *

Saturn 56768-05-19 22:48 G 22455285.35 22455285.45 22455285.56 0.0292 0.0181

Saturn 56768-08-16 11:31 G 22455373.84 22455373.98 22455374.11 0.0293 0.0012

Saturn 56768-11-12 23:46 G 22455462.38 22455462.49 22455462.60 0.0293 0.0161

Moon 56770-08-26 19:41 G 22456114.17 22456114.32 22456114.47 0.2666 0.0522

Earth 56770-08-26 19:41 G 22456114.17 22456114.32 22456114.47 0.2659 0.0617 *

Jupiter 56770-10-17 11:31 G 22456165.90 22456165.98 22456166.06 0.0531 0.0416

Jupiter 56771-01-14 18:29 G 22456255.16 22456255.27 22456255.38 0.0528 0.0266

Mars 56775-11-04 21:36 G 22458010.33 22458010.40 22458010.47 0.1696 0.1371

Jupiter 56777-02-28 05:02 G 22458491.53 22458491.71 22458491.89 0.0498 0.0038

Mars 56778-08-04 13:55 G 22459013.94 22459014.08 22459014.23 0.1820 0.0625

Earth 56781-02-24 00:58 G 22459948.43 22459948.54 22459948.65 0.2673 0.0451

Moon 56781-02-24 01:26 G 22459948.46 22459948.56 22459948.67 0.2676 0.0483 *

Uranus 56781-04-04 00:00 G 22459987.43 22459987.50 22459987.58 0.0140 0.0126

Uranus 56781-07-01 07:26 G 22460075.69 22460075.81 22460075.96 0.0140 0.0097

Uranus 56781-09-27 15:07 G 22460163.97 22460164.13 22460164.31 0.0140 0.0067

Uranus 56781-12-24 23:02 G 22460252.28 22460252.46 22460252.65 0.0139 0.0037

Uranus 56782-03-23 06:43 G 22460340.59 22460340.78 22460340.97 0.0139 0.0007

Saturn 56782-06-14 09:22 G 22460423.83 22460423.89 22460423.97 0.0268 0.0247

Uranus 56782-06-19 14:24 G 22460428.92 22460429.10 22460429.29 0.0139 0.0024

Saturn 56782-09-11 05:31 G 22460512.55 22460512.73 22460512.91 0.0268 0.0068

Uranus 56782-09-15 22:19 G 22460517.25 22460517.43 22460517.60 0.0139 0.0054

Jupiter 56782-11-02 22:48 G 22460565.33 22460565.45 22460565.58 0.0529 0.0107

Saturn 56782-12-09 01:41 G 22460601.40 22460601.57 22460601.74 0.0267 0.0113

Uranus 56782-12-13 05:46 G 22460605.60 22460605.74 22460605.90 0.0139 0.0084

Uranus 56783-03-11 13:26 G 22460693.97 22460694.06 22460694.18 0.0139 0.0114

Earth 56783-08-30 01:55 G 22460865.47 22460865.58 22460865.70 0.2660 0.1763

Moon 56783-08-30 02:53 G 22460865.51 22460865.62 22460865.73 0.2666 0.1790 *

Venus 56786-03-19 11:02 G 22461797.89 22461797.96 22461798.03 0.3684 0.2655

Mars 56787-03-02 16:19 G 22462146.15 22462146.18 22462146.21 0.1712 0.1633

Mars 56787-12-25 13:26 G 22462443.94 22462444.06 22462444.17 0.1827 0.1226

Neptune 56788-08-13 11:46 G 22462675.95 22462675.99 22462676.04 0.0089 0.0084

Neptune 56788-11-09 13:12 G 22462763.98 22462764.05 22462764.12 0.0089 0.0075

Jupiter 56788-12-17 03:07 G 22462801.47 22462801.63 22462801.79 0.0497 0.0236

Neptune 56789-02-05 14:38 G 22462852.03 22462852.11 22462852.20 0.0089 0.0067

Neptune 56789-05-04 16:05 G 22462940.07 22462940.17 22462940.27 0.0089 0.0059

Neptune 56789-07-31 17:31 G 22463028.12 22463028.23 22463028.34 0.0089 0.0052

Neptune 56789-10-27 18:29 G 22463116.17 22463116.27 22463116.40 0.0089 0.0045

Neptune 56790-01-23 19:55 G 22463204.22 22463204.33 22463204.47 0.0089 0.0036

Neptune 56790-04-21 21:22 G 22463292.27 22463292.39 22463292.53 0.0089 0.0028

Neptune 56790-07-18 22:48 G 22463380.33 22463380.45 22463380.59 0.0089 0.0020

Neptune 56790-10-15 00:14 G 22463468.38 22463468.51 22463468.65 0.0089 0.0012

Neptune 56791-01-11 01:41 G 22463556.44 22463556.57 22463556.70 0.0089 0.0004

Neptune 56791-04-09 03:07 G 22463644.49 22463644.63 22463644.76 0.0089 0.0005

Neptune 56791-07-06 04:19 G 22463732.55 22463732.68 22463732.82 0.0089 0.0012

Neptune 56791-10-02 05:31 G 22463820.61 22463820.73 22463820.87 0.0089 0.0020

Venus 56791-10-03 02:10 G 22463821.49 22463821.59 22463821.69 0.3683 0.0233

Neptune 56791-12-29 06:58 G 22463908.67 22463908.79 22463908.92 0.0089 0.0028

Neptune 56792-03-26 08:24 G 22463996.73 22463996.85 22463996.97 0.0089 0.0035

Neptune 56792-06-22 09:36 G 22464084.79 22464084.90 22464085.02 0.0089 0.0043

Neptune 56792-09-18 11:02 G 22464172.85 22464172.96 22464173.07 0.0089 0.0051

Neptune 56792-12-15 12:14 G 22464260.92 22464261.01 22464261.12 0.0089 0.0059

Neptune 56793-03-13 13:26 G 22464348.99 22464349.06 22464349.16 0.0089 0.0067

Neptune 56793-06-09 15:07 G 22464437.06 22464437.13 22464437.20 0.0089 0.0074

Neptune 56793-09-05 16:19 G 22464525.14 22464525.18 22464525.23 0.0089 0.0082

Earth 56794-02-26 18:43 G 22464699.20 22464699.28 22464699.37 0.2671 0.1619

Moon 56794-02-26 19:26 G 22464699.23 22464699.31 22464699.39 0.2671 0.1765 *

Jupiter 56794-08-22 03:07 G 22464875.50 22464875.63 22464875.76 0.0530 0.0055

Mars 56796-07-23 02:10 G 22465576.48 22465576.59 22465576.70 0.1706 0.0676

Venus 56797-04-17 17:31 G 22465845.15 22465845.23 22465845.31 0.3683 0.2200

Saturn 56797-10-06 23:17 G 22466017.41 22466017.47 22466017.55 0.0292 0.0247

Saturn 56798-01-03 12:00 G 22466105.87 22466106.00 22466106.13 0.0292 0.0076

Saturn 56798-04-02 00:29 G 22466194.39 22466194.52 22466194.65 0.0293 0.0094

Saturn 56798-06-29 12:43 G 22466282.98 22466283.03 22466283.09 0.0293 0.0262

Jupiter 56800-10-05 01:26 G 22467111.48 22467111.56 22467111.65 0.0497 0.0430

Jupiter 56801-01-03 08:53 G 22467201.76 22467201.87 22467201.98 0.0499 0.0394

Moon 56801-02-19 17:31 G 22467249.15 22467249.23 22467249.31 0.2681 0.1782

Earth 56801-02-19 17:46 G 22467249.16 22467249.24 22467249.33 0.2675 0.1724 *

Moon 56803-08-24 19:26 G 22468165.27 22468165.31 22468165.36 0.2662 0.2524

Earth 56803-08-24 20:24 G 22468165.30 22468165.35 22468165.40 0.2657 0.2493 *

Mars 56805-12-13 12:00 G 22469006.88 22469007.00 22469007.12 0.1701 0.0279

Pluto 56806-03-11 05:31 G 22469094.67 22469094.73 22469094.81 0.0067 0.0057

Pluto 56806-06-07 06:14 G 22469182.66 22469182.76 22469182.86 0.0067 0.0046

Jupiter 56806-06-10 07:12 G 22469185.68 22469185.80 22469185.91 0.0530 0.0223

Pluto 56806-09-03 06:43 G 22469270.67 22469270.78 22469270.91 0.0067 0.0036

Jupiter 56806-09-07 13:41 G 22469275.01 22469275.07 22469275.14 0.0527 0.0449

Pluto 56806-11-30 07:12 G 22469358.68 22469358.80 22469358.94 0.0067 0.0026

Pluto 56807-02-26 07:55 G 22469446.70 22469446.83 22469446.98 0.0067 0.0015

Pluto 56807-05-25 08:38 G 22469534.72 22469534.86 22469535.00 0.0067 0.0004

Pluto 56807-08-21 09:22 G 22469622.75 22469622.89 22469623.03 0.0068 0.0008

Pluto 56807-11-17 10:05 G 22469710.78 22469710.92 22469711.05 0.0068 0.0019

Pluto 56808-02-13 10:34 G 22469798.82 22469798.94 22469799.07 0.0068 0.0030

Pluto 56808-05-11 11:17 G 22469886.86 22469886.97 22469887.08 0.0068 0.0041

Pluto 56808-08-07 11:46 G 22469974.91 22469974.99 22469975.08 0.0068 0.0052

Pluto 56808-11-03 12:00 G 22470062.97 22470063.00 22470063.07 0.0068 0.0064

Saturn 56812-01-29 02:53 G 22471244.46 22471244.62 22471244.78 0.0268 0.0137

Saturn 56812-04-26 23:02 G 22471333.28 22471333.46 22471333.64 0.0267 0.0043

Saturn 56812-07-24 19:12 G 22471422.21 22471422.30 22471422.41 0.0267 0.0225

Jupiter 56812-10-22 06:58 G 22471511.63 22471511.79 22471511.96 0.0499 0.0195

Earth 56814-02-22 11:46 G 22471999.88 22471999.99 22472000.10 0.2674 0.0519

Moon 56814-02-22 12:00 G 22471999.89 22472000.00 22472000.11 0.2680 0.0516 *

Mars 56815-05-05 21:36 G 22472437.32 22472437.40 22472437.48 0.1695 0.1233

Moon 56816-08-27 02:24 G 22472916.44 22472916.60 22472916.75 0.2666 0.0307

Earth 56816-08-27 02:24 G 22472916.44 22472916.60 22472916.75 0.2659 0.0201 *

Mars 56818-02-02 14:24 G 22473440.96 22473441.10 22473441.24 0.1820 0.0838

Jupiter 56818-03-29 10:34 G 22473495.86 22473495.94 22473496.02 0.0531 0.0404

Jupiter 56818-06-26 17:31 G 22473585.12 22473585.23 22473585.34 0.0528 0.0277

Jupiter 56824-08-10 04:48 G 22475821.52 22475821.70 22475821.89 0.0498 0.0013

Uranus 56824-09-29 04:48 G 22475871.64 22475871.70 22475871.76 0.0138 0.0123

Uranus 56824-12-26 08:10 G 22475959.75 22475959.84 22475959.93 0.0138 0.0102

Uranus 56825-03-24 11:31 G 22476047.87 22476047.98 22476048.09 0.0138 0.0082

Uranus 56825-06-20 14:53 G 22476136.00 22476136.12 22476136.24 0.0139 0.0061

Uranus 56825-09-16 18:14 G 22476224.13 22476224.26 22476224.39 0.0139 0.0041

Uranus 56825-12-13 21:36 G 22476312.27 22476312.40 22476312.53 0.0139 0.0020

Uranus 56826-03-12 00:58 G 22476400.40 22476400.54 22476400.67 0.0139 0.0004

Uranus 56826-06-08 04:05 G 22476488.54 22476488.67 22476488.81 0.0139 0.0021

Uranus 56826-09-04 07:26 G 22476576.69 22476576.81 22476576.94 0.0139 0.0041

Uranus 56826-12-01 10:34 G 22476664.83 22476664.94 22476665.07 0.0139 0.0063

Earth 56827-02-25 05:46 G 22476750.63 22476750.74 22476750.85 0.2672 0.0669

Moon 56827-02-25 06:29 G 22476750.66 22476750.77 22476750.87 0.2675 0.0800 *

Uranus 56827-02-27 13:55 G 22476752.98 22476753.08 22476753.19 0.0139 0.0082

Saturn 56827-05-23 13:55 G 22476837.96 22476838.08 22476838.20 0.0292 0.0126

Uranus 56827-05-26 17:17 G 22476841.14 22476841.22 22476841.31 0.0139 0.0103

Mars 56827-06-25 13:55 G 22476870.95 22476871.08 22476871.21 0.1827 0.0993

Saturn 56827-08-20 02:24 G 22476926.47 22476926.60 22476926.73 0.0293 0.0044

Uranus 56827-08-22 20:38 G 22476929.30 22476929.36 22476929.42 0.0139 0.0123

Saturn 56827-11-16 14:53 G 22477015.03 22477015.12 22477015.21 0.0293 0.0213

Earth 56829-08-30 08:38 G 22477667.77 22477667.86 22477667.94 0.2660 0.2194

Moon 56829-08-30 09:36 G 22477667.84 22477667.90 22477667.97 0.2665 0.2423 *

Jupiter 56830-04-14 21:36 G 22477895.27 22477895.40 22477895.52 0.0529 0.0112

Mars 56836-01-22 02:10 G 22480003.48 22480003.59 22480003.70 0.1707 0.0819

Jupiter 56836-05-29 01:41 G 22480131.41 22480131.57 22480131.73 0.0497 0.0227

Earth 56840-02-27 23:31 G 22481501.41 22481501.48 22481501.56 0.2671 0.1842

Moon 56840-02-28 00:14 G 22481501.43 22481501.51 22481501.59 0.2669 0.1854 *

Saturn 56841-06-17 03:22 G 22481976.51 22481976.64 22481976.78 0.0268 0.0179

Saturn 56841-09-13 23:31 G 22482065.29 22482065.48 22482065.66 0.0268 0.0003

Saturn 56841-12-11 19:41 G 22482154.19 22482154.32 22482154.46 0.0267 0.0184

Jupiter 56842-02-01 01:55 G 22482205.45 22482205.58 22482205.70 0.0530 0.0053

Venus 56842-10-24 08:24 G 22482470.76 22482470.85 22482470.94 0.3683 0.1743

Mars 56845-06-13 12:00 G 22483433.88 22483434.00 22483434.12 0.1701 0.0138

Moon 56847-02-20 22:19 G 22484051.34 22484051.43 22484051.52 0.2682 0.1497

Earth 56847-02-20 22:34 G 22484051.35 22484051.44 22484051.53 0.2675 0.1497 *

Jupiter 56848-03-17 00:00 G 22484441.41 22484441.50 22484441.59 0.0496 0.0421

Venus 56848-05-08 23:31 G 22484494.38 22484494.48 22484494.58 0.3683 0.0688

Jupiter 56848-06-15 07:12 G 22484531.70 22484531.80 22484531.91 0.0499 0.0399

Moon 56849-08-25 02:10 G 22484967.51 22484967.59 22484967.67 0.2664 0.2205

Earth 56849-08-25 02:53 G 22484967.52 22484967.62 22484967.71 0.2657 0.2086 *

Jupiter 56853-11-20 06:00 G 22486515.64 22486515.75 22486515.87 0.0531 0.0214

Venus 56853-11-22 14:38 G 22486518.06 22486518.11 22486518.16 0.3683 0.3086

Jupiter 56854-02-17 12:43 G 22486604.97 22486605.03 22486605.09 0.0528 0.0460

Mars 56854-11-03 21:36 G 22486864.31 22486864.40 22486864.50 0.1695 0.1086

Saturn 56856-10-09 14:38 G 22487570.01 22487570.11 22487570.22 0.0292 0.0190

Saturn 56857-01-06 03:22 G 22487658.50 22487658.64 22487658.77 0.0292 0.0022

Saturn 56857-04-04 15:36 G 22487747.04 22487747.15 22487747.27 0.0293 0.0149

Mars 56857-08-03 14:53 G 22487868.00 22487868.12 22487868.25 0.1820 0.1068

Earth 56860-02-23 16:34 G 22488802.08 22488802.19 22488802.31 0.2674 0.0309

Moon 56860-02-23 17:02 G 22488802.10 22488802.21 22488802.32 0.2679 0.0254 *

Jupiter 56860-04-03 05:17 G 22488841.55 22488841.72 22488841.89 0.0498 0.0198

Earth 56862-08-28 08:38 G 22489718.71 22489718.86 22489719.02 0.2659 0.0244

Moon 56862-08-28 08:53 G 22489718.72 22489718.87 22489719.02 0.2666 0.0341 *

Uranus 56865-04-24 06:14 G 22490688.69 22490688.76 22490688.87 0.0140 0.0121

Uranus 56865-07-21 14:10 G 22490776.95 22490777.09 22490777.24 0.0140 0.0091

Jupiter 56865-09-08 10:05 G 22490825.83 22490825.92 22490826.01 0.0531 0.0382

Uranus 56865-10-17 21:50 G 22490865.24 22490865.41 22490865.59 0.0140 0.0061

Jupiter 56865-12-06 17:02 G 22490915.10 22490915.21 22490915.31 0.0528 0.0299

Uranus 56866-01-14 05:31 G 22490953.55 22490953.73 22490953.92 0.0139 0.0031

Uranus 56866-04-12 13:26 G 22491041.86 22491042.06 22491042.25 0.0139 0.0003

Uranus 56866-07-09 20:53 G 22491130.19 22491130.37 22491130.57 0.0139 0.0030

Uranus 56866-10-06 04:48 G 22491218.53 22491218.70 22491218.87 0.0139 0.0059

Mars 56866-12-24 14:10 G 22491297.95 22491298.09 22491298.23 0.1827 0.0795

Uranus 56867-01-02 12:29 G 22491306.88 22491307.02 22491307.17 0.0139 0.0089

Uranus 56867-03-31 20:24 G 22491395.25 22491395.35 22491395.44 0.0139 0.0119

Saturn 56870-11-04 00:29 G 22492708.46 22492708.52 22492708.58 0.0268 0.0252

Saturn 56871-01-31 20:24 G 22492797.18 22492797.35 22492797.53 0.0268 0.0072

Saturn 56871-04-30 16:34 G 22492886.03 22492886.19 22492886.36 0.0267 0.0110

Jupiter 56872-01-21 03:36 G 22493151.46 22493151.65 22493151.83 0.0498 0.0009

Neptune 56872-07-14 12:14 G 22493327.01 22493327.01 22493327.01 0.0088 0.0088

Neptune 56872-10-10 15:22 G 22493415.06 22493415.14 22493415.24 0.0088 0.0078

Neptune 56873-01-06 18:58 G 22493503.17 22493503.29 22493503.42 0.0088 0.0067

Earth 56873-02-25 10:34 G 22493552.84 22493552.94 22493553.05 0.2672 0.0897

Moon 56873-02-25 11:17 G 22493552.87 22493552.97 22493553.07 0.2675 0.0943 *

Neptune 56873-04-04 22:05 G 22493591.29 22493591.42 22493591.58 0.0088 0.0056

Venus 56873-04-07 19:26 G 22493594.18 22493594.31 22493594.44 0.3687 0.2132

Neptune 56873-07-02 01:26 G 22493679.41 22493679.56 22493679.74 0.0088 0.0046

Neptune 56873-09-28 05:02 G 22493767.54 22493767.71 22493767.90 0.0088 0.0034

Neptune 56873-12-25 08:24 G 22493855.68 22493855.85 22493856.05 0.0088 0.0024

Neptune 56874-03-23 12:00 G 22493943.82 22493944.00 22493944.20 0.0088 0.0012

Neptune 56874-06-19 15:36 G 22494031.96 22494032.15 22494032.34 0.0088 0.0001

Neptune 56874-09-15 18:58 G 22494120.10 22494120.29 22494120.49 0.0088 0.0010

Neptune 56874-12-12 22:19 G 22494208.25 22494208.43 22494208.63 0.0088 0.0021

Neptune 56875-03-11 01:41 G 22494296.40 22494296.57 22494296.76 0.0088 0.0033

Neptune 56875-06-07 05:17 G 22494384.56 22494384.72 22494384.90 0.0088 0.0043

Mars 56875-07-23 02:10 G 22494430.49 22494430.59 22494430.69 0.1706 0.0953

Earth 56875-08-31 15:07 G 22494470.12 22494470.13 22494470.15 0.2660 0.2637

Neptune 56875-09-03 08:38 G 22494472.72 22494472.86 22494473.03 0.0088 0.0055

Neptune 56875-11-30 12:14 G 22494560.89 22494561.01 22494561.15 0.0088 0.0066

Neptune 56876-02-26 15:50 G 22494649.07 22494649.16 22494649.26 0.0088 0.0077

Neptune 56876-05-24 19:26 G 22494737.30 22494737.31 22494737.33 0.0088 0.0088

Jupiter 56877-09-24 20:38 G 22495225.24 22495225.36 22495225.49 0.0529 0.0126

Moon 56880-02-19 08:53 G 22496102.83 22496102.87 22496102.91 0.2680 0.2498

Earth 56880-02-19 09:22 G 22496102.85 22496102.89 22496102.93 0.2676 0.2487 *

Jupiter 56883-11-09 01:41 G 22497461.40 22497461.57 22497461.73 0.0497 0.0199

Mars 56884-12-12 12:00 G 22497860.88 22497861.00 22497861.12 0.1701 0.0022

Saturn 56886-02-26 16:05 G 22498302.11 22498302.17 22498302.25 0.0292 0.0245

Earth 56886-02-28 04:34 G 22498303.62 22498303.69 22498303.75 0.2671 0.2058

Moon 56886-02-28 05:02 G 22498303.65 22498303.71 22498303.77 0.2667 0.2173 *

Saturn 56886-05-26 04:48 G 22498390.57 22498390.70 22498390.83 0.0292 0.0074

Saturn 56886-08-22 17:17 G 22498479.10 22498479.22 22498479.35 0.0293 0.0096

Saturn 56886-11-19 05:31 G 22498567.68 22498567.73 22498567.79 0.0293 0.0264

Jupiter 56889-07-14 00:43 G 22499535.40 22499535.53 22499535.66 0.0530 0.0042

Pluto 56892-12-28 03:07 G 22500798.60 22500798.63 22500798.68 0.0077 0.0076

Moon 56893-02-21 03:22 G 22500853.54 22500853.64 22500853.73 0.2681 0.1332

Earth 56893-02-21 03:36 G 22500853.55 22500853.65 22500853.74 0.2675 0.1266 *

Pluto 56893-03-26 05:17 G 22500886.60 22500886.72 22500886.86 0.0077 0.0054

Pluto 56893-06-22 07:26 G 22500974.66 22500974.81 22500974.99 0.0077 0.0033

Pluto 56893-09-18 09:50 G 22501062.74 22501062.91 22501063.09 0.0077 0.0012

Venus 56893-11-14 14:24 G 22501120.06 22501120.10 22501120.14 0.3684 0.3285

Pluto 56893-12-15 12:00 G 22501150.83 22501151.00 22501151.19 0.0077 0.0010

Pluto 56894-03-13 14:10 G 22501238.93 22501239.09 22501239.26 0.0077 0.0031

Mars 56894-05-04 21:50 G 22501291.30 22501291.41 22501291.51 0.1696 0.0939

Pluto 56894-06-09 16:05 G 22501327.06 22501327.17 22501327.32 0.0077 0.0052

Pluto 56894-09-05 18:14 G 22501415.22 22501415.26 22501415.34 0.0076 0.0073

Moon 56895-08-26 08:53 G 22501769.75 22501769.87 22501769.98 0.2664 0.1715

Earth 56895-08-26 09:22 G 22501769.77 22501769.89 22501770.01 0.2658 0.1669 *

Jupiter 56895-08-27 22:48 G 22501771.35 22501771.45 22501771.55 0.0496 0.0410

Jupiter 56895-11-26 06:00 G 22501861.65 22501861.75 22501861.85 0.0499 0.0410

Mars 56897-02-01 15:36 G 22502295.04 22502295.15 22502295.25 0.1820 0.1297

Venus 56899-05-31 05:46 G 22503143.64 22503143.74 22503143.83 0.3683 0.0851

Saturn 56900-06-20 20:38 G 22503529.20 22503529.36 22503529.53 0.0268 0.0115

Saturn 56900-09-17 17:02 G 22503618.03 22503618.21 22503618.39 0.0268 0.0067

Saturn 56900-12-15 13:26 G 22503707.00 22503707.06 22503707.12 0.0268 0.0250

Jupiter 56901-05-03 04:48 G 22503845.58 22503845.70 22503845.82 0.0531 0.0209

Jupiter 56901-07-31 11:31 G 22503934.92 22503934.98 22503935.04 0.0528 0.0466

Venus 56904-12-14 20:53 G 22505167.28 22505167.37 22505167.46 0.3683 0.1581

Earth 56906-02-24 21:36 G 22505604.29 22505604.40 22505604.51 0.2673 0.0098

Moon 56906-02-24 22:05 G 22505604.31 22505604.42 22505604.53 0.2678 0.0072 *

Mars 56906-06-25 14:38 G 22505724.96 22505725.11 22505725.26 0.1827 0.0575

Jupiter 56907-09-15 03:50 G 22506171.50 22506171.66 22506171.83 0.0498 0.0207

Earth 56908-08-29 15:22 G 22506520.99 22506521.14 22506521.29 0.2659 0.0659

Moon 56908-08-29 15:50 G 22506521.01 22506521.16 22506521.31 0.2665 0.0648 *

Uranus 56908-10-20 11:46 G 22506572.93 22506572.99 22506573.06 0.0138 0.0119

Uranus 56909-01-16 15:07 G 22506661.04 22506661.13 22506661.23 0.0138 0.0098

Uranus 56909-04-14 18:29 G 22506749.16 22506749.27 22506749.38 0.0139 0.0078

Uranus 56909-07-11 21:50 G 22506837.29 22506837.41 22506837.53 0.0139 0.0057

Uranus 56909-10-08 01:12 G 22506925.42 22506925.55 22506925.68 0.0139 0.0037

Uranus 56910-01-04 04:34 G 22507013.56 22507013.69 22507013.82 0.0139 0.0016

Uranus 56910-04-02 07:55 G 22507101.70 22507101.83 22507101.96 0.0139 0.0004

Uranus 56910-06-29 11:17 G 22507189.84 22507189.97 22507190.10 0.0139 0.0025

Uranus 56910-09-25 14:24 G 22507277.98 22507278.10 22507278.23 0.0139 0.0046

Uranus 56910-12-22 17:46 G 22507366.13 22507366.24 22507366.36 0.0139 0.0066

Uranus 56911-03-20 21:07 G 22507454.28 22507454.38 22507454.48 0.0139 0.0086

Uranus 56911-06-17 00:14 G 22507542.44 22507542.51 22507542.60 0.0139 0.0107

Uranus 56911-09-13 03:36 G 22507630.61 22507630.65 22507630.71 0.0139 0.0127

Jupiter 56913-02-19 08:53 G 22508155.79 22508155.87 22508155.97 0.0531 0.0375

Jupiter 56913-05-19 15:50 G 22508245.06 22508245.16 22508245.27 0.0529 0.0310

Mars 56915-01-22 02:10 G 22508857.50 22508857.59 22508857.68 0.1707 0.1098

Saturn 56915-10-14 05:46 G 22509122.62 22509122.74 22509122.86 0.0291 0.0135

Saturn 56916-01-10 18:14 G 22509211.13 22509211.26 22509211.39 0.0292 0.0034

Saturn 56916-04-08 06:29 G 22509299.68 22509299.77 22509299.87 0.0292 0.0202

Earth 56919-02-27 15:22 G 22510355.04 22510355.14 22510355.25 0.2672 0.1122

Moon 56919-02-27 16:05 G 22510355.08 22510355.17 22510355.27 0.2674 0.1217 *

Jupiter 56919-07-04 01:55 G 22510481.40 22510481.58 22510481.76 0.0498 0.0008

Mars 56924-06-13 12:00 G 22512287.88 22512288.00 22512288.12 0.1701 0.0152

Jupiter 56925-03-07 20:10 G 22512555.22 22512555.34 22512555.47 0.0529 0.0147

Moon 56926-02-20 13:41 G 22512905.03 22512905.07 22512905.12 0.2681 0.2387

Earth 56926-02-20 14:10 G 22512905.04 22512905.09 22512905.15 0.2676 0.2255 *

Saturn 56929-11-07 17:31 G 22514261.11 22514261.23 22514261.36 0.0268 0.0190

Venus 56929-11-13 21:50 G 22514267.25 22514267.41 22514267.56 0.3687 0.0763

Saturn 56930-02-04 13:41 G 22514349.89 22514350.07 22514350.26 0.0268 0.0010

Saturn 56930-05-04 10:05 G 22514438.78 22514438.92 22514439.06 0.0268 0.0174

Jupiter 56931-04-22 00:14 G 22514791.34 22514791.51 22514791.68 0.0497 0.0188

Earth 56932-03-01 09:22 G 22515105.83 22515105.89 22515105.94 0.2671 0.2277

Moon 56932-03-01 09:50 G 22515105.86 22515105.91 22515105.97 0.2666 0.2299 *

Mars 56933-11-03 21:36 G 22515718.30 22515718.40 22515718.51 0.1695 0.0806

Mars 56936-08-03 15:50 G 22516722.07 22516722.16 22516722.24 0.1820 0.1499

Jupiter 56936-12-25 00:00 G 22516865.37 22516865.50 22516865.62 0.0530 0.0032

Moon 56939-02-23 08:24 G 22517655.74 22517655.85 22517655.95 0.2681 0.0992

Earth 56939-02-23 08:24 G 22517655.75 22517655.85 22517655.95 0.2674 0.1038 *

Moon 56941-08-27 15:22 G 22518572.01 22518572.14 22518572.27 0.2664 0.1313

Earth 56941-08-27 15:50 G 22518572.02 22518572.16 22518572.29 0.2658 0.1257 *

Jupiter 56943-02-07 22:19 G 22519101.32 22519101.43 22519101.55 0.0497 0.0384

Jupiter 56943-05-09 05:46 G 22519191.66 22519191.74 22519191.83 0.0499 0.0440

Saturn 56945-03-02 07:12 G 22519854.70 22519854.80 22519854.90 0.0292 0.0191

Saturn 56945-05-29 19:41 G 22519943.19 22519943.32 22519943.46 0.0292 0.0023

Saturn 56945-08-26 08:10 G 22520031.73 22520031.84 22520031.96 0.0293 0.0148

Mars 56945-12-24 15:22 G 22520151.99 22520152.14 22520152.29 0.1827 0.0329

Jupiter 56948-10-13 03:50 G 22521175.54 22521175.66 22521175.78 0.0530 0.0198

Jupiter 56949-01-10 10:19 G 22521264.88 22521264.93 22521264.99 0.0528 0.0476

Uranus 56949-05-15 13:41 G 22521389.97 22521390.07 22521390.19 0.0140 0.0113

Uranus 56949-08-11 21:07 G 22521478.24 22521478.38 22521478.54 0.0140 0.0084

Uranus 56949-11-08 05:02 G 22521566.53 22521566.71 22521566.89 0.0140 0.0053

Uranus 56950-02-04 12:43 G 22521654.84 22521655.03 22521655.22 0.0139 0.0024

Uranus 56950-05-03 20:24 G 22521743.16 22521743.35 22521743.54 0.0139 0.0006

Venus 56950-06-22 11:46 G 22521792.91 22521792.99 22521793.06 0.3684 0.2374

Uranus 56950-07-31 04:05 G 22521831.49 22521831.67 22521831.86 0.0139 0.0036

Uranus 56950-10-27 11:46 G 22521919.82 22521919.99 22521920.16 0.0139 0.0066

Uranus 56951-01-23 19:41 G 22522008.18 22522008.32 22522008.45 0.0139 0.0097

Uranus 56951-04-22 02:53 G 22522096.56 22522096.62 22522096.72 0.0139 0.0127

Earth 56952-02-26 02:24 G 22522406.49 22522406.60 22522406.71 0.2673 0.0164

Moon 56952-02-26 02:53 G 22522406.51 22522406.62 22522406.73 0.2678 0.0200 *

Neptune 56953-02-12 10:05 G 22522758.91 22522758.92 22522758.96 0.0089 0.0087

Neptune 56953-05-11 11:31 G 22522846.93 22522846.98 22522847.05 0.0089 0.0079

Neptune 56953-08-07 12:58 G 22522934.97 22522935.04 22522935.13 0.0089 0.0071

Neptune 56953-11-03 14:24 G 22523023.01 22523023.10 22523023.20 0.0089 0.0063

Neptune 56954-01-30 15:50 G 22523111.06 22523111.16 22523111.27 0.0089 0.0055

Neptune 56954-04-28 17:17 G 22523199.11 22523199.22 22523199.34 0.0089 0.0047

Mars 56954-07-23 02:10 G 22523284.51 22523284.59 22523284.67 0.1707 0.1240

Neptune 56954-07-25 18:43 G 22523287.16 22523287.28 22523287.40 0.0089 0.0039

Earth 56954-08-30 21:50 G 22523323.27 22523323.41 22523323.55 0.2659 0.1084

Moon 56954-08-30 22:34 G 22523323.31 22523323.44 22523323.58 0.2665 0.1224 *

Neptune 56954-10-21 20:10 G 22523375.21 22523375.34 22523375.46 0.0089 0.0031

Neptune 56955-01-17 21:22 G 22523463.26 22523463.39 22523463.52 0.0089 0.0023

Jupiter 56955-02-25 02:38 G 22523501.45 22523501.61 22523501.77 0.0498 0.0219

Neptune 56955-04-15 22:48 G 22523551.32 22523551.45 22523551.58 0.0089 0.0015

Neptune 56955-07-13 00:14 G 22523639.37 22523639.51 22523639.64 0.0089 0.0008

Neptune 56955-10-09 01:26 G 22523727.43 22523727.56 22523727.70 0.0089 0.0003

Neptune 56956-01-05 02:53 G 22523815.49 22523815.62 22523815.75 0.0089 0.0008

Venus 56956-01-06 02:53 G 22523816.52 22523816.62 22523816.72 0.3683 0.0078

Neptune 56956-04-02 04:19 G 22523903.55 22523903.68 22523903.81 0.0089 0.0016

Neptune 56956-06-29 05:31 G 22523991.61 22523991.73 22523991.86 0.0089 0.0024

Neptune 56956-09-25 06:43 G 22524079.67 22524079.78 22524079.92 0.0089 0.0033

Neptune 56956-12-22 08:10 G 22524167.73 22524167.84 22524167.97 0.0089 0.0040

Neptune 56957-03-20 09:36 G 22524255.79 22524255.90 22524256.01 0.0089 0.0047

Neptune 56957-06-16 10:48 G 22524343.85 22524343.95 22524344.06 0.0089 0.0055

Neptune 56957-09-12 12:14 G 22524431.92 22524432.01 22524432.11 0.0089 0.0063

Neptune 56957-12-09 13:26 G 22524519.99 22524520.06 22524520.15 0.0089 0.0071

Neptune 56958-03-07 14:53 G 22524608.07 22524608.12 22524608.19 0.0089 0.0078

Neptune 56958-06-03 16:05 G 22524696.15 22524696.17 22524696.21 0.0089 0.0086

Saturn 56959-03-27 18:00 G 22524993.16 22524993.25 22524993.34 0.0269 0.0233

Saturn 56959-06-24 13:55 G 22525081.91 22525082.08 22525082.26 0.0269 0.0052

Saturn 56959-09-21 10:19 G 22525170.77 22525170.93 22525171.09 0.0268 0.0130

Jupiter 56960-08-01 07:41 G 22525485.73 22525485.82 22525485.91 0.0532 0.0371

Jupiter 56960-10-29 14:38 G 22525575.01 22525575.11 22525575.21 0.0529 0.0313

Venus 56961-07-21 18:14 G 22525840.18 22525840.26 22525840.33 0.3683 0.2480

Mars 56963-12-13 12:00 G 22526714.88 22526715.00 22526715.12 0.1701 0.0293

Earth 56965-02-27 20:24 G 22527157.25 22527157.35 22527157.44 0.2672 0.1341

Moon 56965-02-27 21:07 G 22527157.28 22527157.38 22527157.47 0.2671 0.1440 *

Jupiter 56966-12-14 00:29 G 22527811.34 22527811.52 22527811.71 0.0497 0.0022

Moon 56972-02-21 18:43 G 22529707.21 22529707.28 22529707.35 0.2681 0.2023

Earth 56972-02-21 19:12 G 22529707.23 22529707.30 22529707.37 0.2675 0.2023 *

Jupiter 56972-08-17 18:58 G 22529885.17 22529885.29 22529885.42 0.0529 0.0155

Mars 56973-05-04 21:50 G 22530145.30 22530145.41 22530145.52 0.1695 0.0655

Saturn 56974-07-20 08:38 G 22530586.79 22530586.86 22530586.93 0.0291 0.0247

Saturn 56974-10-16 21:07 G 22530675.25 22530675.38 22530675.51 0.0291 0.0078

Saturn 56975-01-13 09:22 G 22530763.77 22530763.89 22530764.02 0.0292 0.0091

Saturn 56975-04-11 21:36 G 22530852.35 22530852.40 22530852.47 0.0292 0.0258

Mars 56976-02-02 16:19 G 22531149.14 22531149.18 22531149.23 0.1820 0.1739

Earth 56978-03-02 14:10 G 22531908.05 22531908.09 22531908.12 0.2671 0.2491

Moon 56978-03-02 14:38 G 22531908.08 22531908.11 22531908.13 0.2666 0.2579 *

Jupiter 56978-10-01 22:34 G 22532121.27 22532121.44 22532121.61 0.0497 0.0181

Mars 56982-09-25 07:26 G 22533575.78 22533575.81 22533575.85 0.1690 0.1600

Jupiter 56984-06-05 23:17 G 22534195.34 22534195.47 22534195.60 0.0530 0.0009

Moon 56985-02-23 13:26 G 22534457.95 22534458.06 22534458.16 0.2681 0.0850

Earth 56985-02-23 13:12 G 22534457.95 22534458.05 22534458.16 0.2674 0.0807 *

Mars 56985-06-24 15:36 G 22534578.99 22534579.15 22534579.30 0.1827 0.0144

Venus 56986-06-20 23:46 G 22534940.47 22534940.49 22534940.52 0.3688 0.3617

Moon 56987-08-28 22:05 G 22535374.28 22535374.42 22535374.56 0.2664 0.0901

Earth 56987-08-28 22:19 G 22535374.28 22535374.43 22535374.57 0.2658 0.0842 *

Saturn 56988-11-10 10:48 G 22535813.79 22535813.95 22535814.11 0.0269 0.0127

Saturn 56989-02-07 06:58 G 22535902.61 22535902.79 22535902.97 0.0268 0.0055

Saturn 56989-05-07 03:22 G 22535991.56 22535991.64 22535991.73 0.0268 0.0238

Jupiter 56990-07-20 21:07 G 22536431.26 22536431.38 22536431.50 0.0497 0.0373

Jupiter 56990-10-19 04:19 G 22536521.61 22536521.68 22536521.76 0.0499 0.0450

Uranus 56992-08-13 15:22 G 22537186.12 22537186.14 22537186.18 0.0138 0.0135

Uranus 56992-11-09 18:58 G 22537274.22 22537274.29 22537274.37 0.0138 0.0114

Uranus 56993-02-05 22:19 G 22537362.33 22537362.43 22537362.53 0.0138 0.0093

Uranus 56993-05-05 01:41 G 22537450.46 22537450.57 22537450.69 0.0139 0.0073

Uranus 56993-08-01 05:02 G 22537538.59 22537538.71 22537538.83 0.0139 0.0052

Uranus 56993-10-28 08:24 G 22537626.72 22537626.85 22537626.98 0.0139 0.0032

Mars 56994-01-21 02:10 G 22537711.52 22537711.59 22537711.66 0.1706 0.1375

Uranus 56994-01-24 11:46 G 22537714.86 22537714.99 22537715.12 0.0139 0.0011

Uranus 56994-04-22 15:07 G 22537803.00 22537803.13 22537803.26 0.0139 0.0010

Uranus 56994-07-19 18:14 G 22537891.14 22537891.26 22537891.40 0.0139 0.0030

Uranus 56994-10-15 21:36 G 22537979.28 22537979.40 22537979.53 0.0139 0.0050

Uranus 56995-01-12 00:58 G 22538067.43 22538067.54 22538067.65 0.0139 0.0071

Uranus 56995-04-10 04:19 G 22538155.58 22538155.68 22538155.78 0.0139 0.0091

Uranus 56995-07-07 07:41 G 22538243.74 22538243.82 22538243.89 0.0139 0.0112

Uranus 56995-10-03 10:48 G 22538331.92 22538331.95 22538331.99 0.0139 0.0132

Jupiter 56996-03-25 02:53 G 22538505.50 22538505.62 22538505.74 0.0530 0.0185

Jupiter 56996-06-22 09:36 G 22538594.85 22538594.90 22538594.94 0.0528 0.0488

Earth 56998-02-26 07:12 G 22539208.69 22539208.80 22539208.91 0.2673 0.0391

Moon 56998-02-26 07:55 G 22539208.72 22539208.83 22539208.93 0.2678 0.0516 *

Earth 57000-09-01 04:19 G 22540125.55 22540125.68 22540125.81 0.2659 0.1506

Moon 57000-09-01 05:17 G 22540125.60 22540125.72 22540125.84 0.2665 0.1598 *

58TH MILLENNIUM CE

This is a list of transits of Mercury in the 58th millennium CE.

FROM MAX- C START MAX END SUNRAD DEPTH S

TRANSIT

TIME

Jupiter 57002-08-08 02:10 G 22540831.44 22540831.59 22540831.75 0.0498 0.0246

Mars 57003-06-14 12:00 G 22541141.88 22541142.00 22541142.12 0.1701 0.0431

Saturn 57004-03-05 22:34 G 22541407.32 22541407.44 22541407.56 0.0292 0.0135

Saturn 57004-06-02 11:02 G 22541495.82 22541495.96 22541496.09 0.0292 0.0035

Saturn 57004-08-29 23:17 G 22541584.38 22541584.47 22541584.57 0.0293 0.0202

Venus 57007-01-28 09:07 G 22542465.78 22542465.88 22542465.97 0.3683 0.1477

Jupiter 57008-01-13 06:43 G 22542815.69 22542815.78 22542815.87 0.0531 0.0358

Jupiter 57008-04-11 13:41 G 22542904.97 22542905.07 22542905.17 0.0528 0.0324

Earth 57011-03-02 01:12 G 22543959.46 22543959.55 22543959.64 0.2672 0.1558

Moon 57011-03-02 01:55 G 22543959.49 22543959.58 22543959.67 0.2670 0.1605 *

Venus 57012-08-13 00:14 G 22544489.41 22544489.51 22544489.61 0.3683 0.0963

Mars 57012-11-03 21:50 G 22544572.29 22544572.41 22544572.53 0.1696 0.0511

Jupiter 57014-05-26 23:17 G 22545141.29 22545141.47 22545141.66 0.0497 0.0033

Moon 57018-02-22 23:31 G 22546509.41 22546509.48 22546509.56 0.2681 0.1897

Earth 57018-02-23 00:00 G 22546509.42 22546509.50 22546509.58 0.2675 0.1791 *

Venus 57018-02-26 15:22 G 22546513.11 22546513.14 22546513.18 0.3682 0.3374

Saturn 57018-03-31 11:02 G 22546545.83 22546545.96 22546546.11 0.0269 0.0170

Saturn 57018-06-28 07:12 G 22546634.62 22546634.80 22546634.99 0.0269 0.0014

Saturn 57018-09-25 03:36 G 22546723.53 22546723.65 22546723.78 0.0268 0.0195

Jupiter 57020-01-29 17:46 G 22547215.11 22547215.24 22547215.36 0.0530 0.0157

Mars 57022-03-27 07:41 G 22548002.76 22548002.82 22548002.88 0.1690 0.1452

Mars 57024-12-24 16:05 G 22549006.02 22549006.17 22549006.33 0.1827 0.0109

Jupiter 57026-03-14 21:22 G 22549451.22 22549451.39 22549451.56 0.0496 0.0169

Earth 57031-02-25 18:00 G 22551260.15 22551260.25 22551260.36 0.2674 0.0591

Moon 57031-02-25 18:29 G 22551260.16 22551260.27 22551260.37 0.2681 0.0496 *

Jupiter 57031-11-17 22:05 G 22551525.29 22551525.42 22551525.54 0.0530 0.0019

Uranus 57033-03-09 13:41 G 22552003.02 22552003.07 22552003.12 0.0140 0.0134

Uranus 57033-06-05 20:53 G 22552091.26 22552091.37 22552091.51 0.0140 0.0105

Mars 57033-07-23 02:10 G 22552138.54 22552138.59 22552138.65 0.1706 0.1516

Saturn 57033-07-24 00:14 G 22552139.41 22552139.51 22552139.61 0.0291 0.0185

Earth 57033-08-30 04:34 G 22552176.54 22552176.69 22552176.85 0.2658 0.0436

Moon 57033-08-30 04:48 G 22552176.55 22552176.70 22552176.85 0.2665 0.0350 *

Uranus 57033-09-02 04:48 G 22552179.54 22552179.70 22552179.86 0.0140 0.0075

Saturn 57033-10-20 12:43 G 22552227.90 22552228.03 22552228.16 0.0291 0.0017

Uranus 57033-11-29 12:29 G 22552267.84 22552268.02 22552268.20 0.0139 0.0045

Saturn 57034-01-17 00:58 G 22552316.43 22552316.54 22552316.66 0.0292 0.0150

Uranus 57034-02-25 20:10 G 22552356.15 22552356.34 22552356.53 0.0139 0.0015

Mars 57034-05-16 15:36 G 22552436.11 22552436.15 22552436.19 0.1834 0.1760

Uranus 57034-05-25 03:50 G 22552444.47 22552444.66 22552444.85 0.0139 0.0015

Uranus 57034-08-21 11:31 G 22552532.80 22552532.98 22552533.16 0.0139 0.0045

Uranus 57034-11-17 19:12 G 22552621.14 22552621.30 22552621.46 0.0139 0.0075

Uranus 57035-02-14 02:53 G 22552709.50 22552709.62 22552709.75 0.0139 0.0105

Uranus 57035-05-13 10:34 G 22552797.91 22552797.94 22552797.99 0.0139 0.0135

Neptune 57037-04-12 10:19 G 22553497.89 22553497.93 22553498.01 0.0088 0.0084

Neptune 57037-07-09 13:55 G 22553585.99 22553586.08 22553586.20 0.0088 0.0072

Venus 57037-07-12 16:05 G 22553589.05 22553589.17 22553589.30 0.3687 0.2225

Neptune 57037-10-05 17:31 G 22553674.10 22553674.23 22553674.37 0.0088 0.0061

Jupiter 57037-12-31 19:26 G 22553761.19 22553761.31 22553761.43 0.0496 0.0367

Neptune 57038-01-01 20:53 G 22553762.22 22553762.37 22553762.53 0.0088 0.0051

Neptune 57038-03-31 00:00 G 22553850.35 22553850.50 22553850.69 0.0088 0.0040

Jupiter 57038-04-01 02:38 G 22553851.54 22553851.61 22553851.69 0.0499 0.0454

Neptune 57038-06-27 03:36 G 22553938.48 22553938.65 22553938.84 0.0088 0.0029

Neptune 57038-09-23 06:58 G 22554026.61 22554026.79 22554026.99 0.0088 0.0019

Neptune 57038-12-20 10:34 G 22554114.75 22554114.94 22554115.14 0.0088 0.0007

Neptune 57039-03-18 14:10 G 22554202.90 22554203.09 22554203.28 0.0088 0.0004

Neptune 57039-06-14 17:31 G 22554291.04 22554291.23 22554291.42 0.0088 0.0015

Neptune 57039-09-10 20:53 G 22554379.19 22554379.37 22554379.56 0.0088 0.0026

Neptune 57039-12-08 00:14 G 22554467.35 22554467.51 22554467.70 0.0088 0.0038

Neptune 57040-03-05 03:50 G 22554555.51 22554555.66 22554555.83 0.0088 0.0048

Neptune 57040-06-01 07:12 G 22554643.67 22554643.80 22554643.95 0.0088 0.0060

Neptune 57040-08-28 10:48 G 22554731.84 22554731.95 22554732.07 0.0088 0.0071

Neptune 57040-11-24 13:55 G 22554820.03 22554820.08 22554820.17 0.0088 0.0083

Mars 57042-12-13 12:00 G 22555568.89 22555569.00 22555569.12 0.1701 0.0577

Jupiter 57043-09-06 02:10 G 22555835.47 22555835.59 22555835.71 0.0531 0.0170

Jupiter 57043-12-04 08:38 G 22555924.83 22555924.86 22555924.90 0.0528 0.0504

Earth 57044-02-28 12:00 G 22556010.90 22556011.00 22556011.11 0.2673 0.0621

Moon 57044-02-28 12:43 G 22556010.92 22556011.03 22556011.14 0.2676 0.0625 *

Earth 57046-09-02 10:48 G 22556927.85 22556927.95 22556928.06 0.2660 0.1937

Moon 57046-09-02 11:46 G 22556927.90 22556927.99 22556928.09 0.2665 0.2054 *

Saturn 57047-08-18 08:10 G 22557277.77 22557277.84 22557277.92 0.0269 0.0243

Saturn 57047-11-15 04:19 G 22557366.50 22557366.68 22557366.86 0.0269 0.0062

Saturn 57048-02-12 00:43 G 22557455.36 22557455.53 22557455.69 0.0268 0.0121

Jupiter 57050-01-18 00:43 G 22558161.37 22558161.53 22558161.69 0.0498 0.0253

Pluto 57052-02-06 19:26 G 22558911.27 22558911.31 22558911.38 0.0067 0.0061

Pluto 57052-05-04 20:24 G 22558999.26 22558999.35 22558999.44 0.0067 0.0050

Mars 57052-05-04 21:50 G 22558999.29 22558999.41 22558999.53 0.1695 0.0373 *

Pluto 57052-07-31 20:38 G 22559087.26 22559087.36 22559087.49 0.0067 0.0040

Pluto 57052-10-27 21:22 G 22559175.27 22559175.39 22559175.53 0.0067 0.0029

Pluto 57053-01-23 22:05 G 22559263.29 22559263.42 22559263.56 0.0067 0.0018

Pluto 57053-04-21 22:48 G 22559351.31 22559351.45 22559351.59 0.0067 0.0007

Pluto 57053-07-18 23:31 G 22559439.34 22559439.48 22559439.62 0.0067 0.0004

Pluto 57053-10-15 00:00 G 22559527.37 22559527.50 22559527.64 0.0068 0.0015

Pluto 57054-01-11 00:29 G 22559615.40 22559615.52 22559615.66 0.0068 0.0026

Pluto 57054-04-09 00:58 G 22559703.44 22559703.54 22559703.67 0.0068 0.0038

Pluto 57054-07-06 01:41 G 22559791.49 22559791.57 22559791.68 0.0068 0.0049

Pluto 57054-10-02 02:10 G 22559879.54 22559879.59 22559879.67 0.0068 0.0060

Jupiter 57055-06-25 05:46 G 22560145.64 22560145.74 22560145.84 0.0531 0.0347

Jupiter 57055-09-22 12:43 G 22560234.93 22560235.03 22560235.13 0.0528 0.0334

Earth 57057-03-02 06:00 G 22560761.67 22560761.75 22560761.83 0.2672 0.1776

Moon 57057-03-02 06:43 G 22560761.70 22560761.78 22560761.85 0.2669 0.1907 *

Venus 57058-02-18 15:07 G 22561115.07 22561115.13 22561115.19 0.3683 0.3005

Mars 57061-09-25 07:41 G 22562429.74 22562429.82 22562429.89 0.1690 0.1310

Jupiter 57061-11-05 22:34 G 22562471.26 22562471.44 22562471.63 0.0498 0.0053

Saturn 57062-12-11 01:26 G 22562871.49 22562871.56 22562871.64 0.0291 0.0242

Saturn 57063-03-09 14:10 G 22562959.96 22562960.09 22562960.22 0.0291 0.0073

Saturn 57063-06-06 02:24 G 22563048.48 22563048.60 22563048.73 0.0292 0.0096

Saturn 57063-09-02 14:38 G 22563137.06 22563137.11 22563137.17 0.0292 0.0263

Venus 57063-09-04 06:14 G 22563138.66 22563138.76 22563138.86 0.3683 0.0583

Moon 57064-02-24 04:34 G 22563311.60 22563311.69 22563311.78 0.2681 0.1565

Earth 57064-02-24 04:48 G 22563311.61 22563311.70 22563311.79 0.2675 0.1562 *

Mars 57064-06-24 16:48 G 22563433.04 22563433.20 22563433.35 0.1827 0.0328

Moon 57066-08-28 04:34 G 22564227.62 22564227.69 22564227.77 0.2663 0.2289

Earth 57066-08-28 05:31 G 22564227.66 22564227.73 22564227.81 0.2657 0.2290 *

Jupiter 57067-04-13 09:22 G 22564455.87 22564455.89 22564455.91 0.0532 0.0523

Jupiter 57067-07-11 16:34 G 22564545.07 22564545.19 22564545.32 0.0529 0.0168

Venus 57069-03-19 21:36 G 22565162.31 22565162.40 22565162.49 0.3683 0.1869

Mars 57073-01-21 02:24 G 22566565.57 22566565.60 22566565.62 0.1707 0.1661

Jupiter 57073-08-24 20:10 G 22566781.17 22566781.34 22566781.51 0.0496 0.0158

Mars 57073-11-14 16:05 G 22566863.09 22566863.17 22566863.25 0.1833 0.1536

Uranus 57076-09-03 22:19 G 22567887.40 22567887.43 22567887.48 0.0138 0.0131

Uranus 57076-12-01 01:41 G 22567975.50 22567975.57 22567975.66 0.0138 0.0110

Earth 57077-02-25 23:02 G 22568062.35 22568062.46 22568062.57 0.2674 0.0358

Moon 57077-02-25 23:17 G 22568062.36 22568062.47 22568062.58 0.2680 0.0373 *

Uranus 57077-02-27 05:02 G 22568063.62 22568063.71 22568063.82 0.0138 0.0090

Saturn 57077-04-03 04:48 G 22568098.53 22568098.70 22568098.87 0.0269 0.0105

Uranus 57077-05-26 08:38 G 22568151.75 22568151.86 22568151.98 0.0139 0.0069

Saturn 57077-07-01 00:58 G 22568187.37 22568187.54 22568187.72 0.0269 0.0078

Uranus 57077-08-22 12:00 G 22568239.88 22568240.00 22568240.13 0.0139 0.0048

Saturn 57077-09-27 21:22 G 22568276.36 22568276.39 22568276.43 0.0268 0.0262

Uranus 57077-11-18 15:22 G 22568328.01 22568328.14 22568328.27 0.0139 0.0028

Uranus 57078-02-14 18:43 G 22568416.15 22568416.28 22568416.41 0.0139 0.0007

Uranus 57078-05-13 22:05 G 22568504.29 22568504.42 22568504.55 0.0139 0.0013

Uranus 57078-08-10 01:26 G 22568592.43 22568592.56 22568592.69 0.0139 0.0034

Uranus 57078-11-06 04:48 G 22568680.57 22568680.70 22568680.82 0.0139 0.0055

Uranus 57079-02-02 07:55 G 22568768.72 22568768.83 22568768.94 0.0139 0.0075

Jupiter 57079-04-29 20:24 G 22568855.22 22568855.35 22568855.48 0.0531 0.0007

Uranus 57079-05-01 11:17 G 22568856.88 22568856.97 22568857.07 0.0139 0.0095

Uranus 57079-07-28 14:24 G 22568945.04 22568945.10 22568945.18 0.0139 0.0116

Earth 57079-08-31 11:17 G 22568978.81 22568978.97 22568979.12 0.2658 0.0075

Moon 57079-08-31 11:31 G 22568978.83 22568978.98 22568979.14 0.2665 0.0097 *

Uranus 57079-10-24 17:46 G 22569033.22 22569033.24 22569033.27 0.0139 0.0137

Mars 57082-06-13 12:00 G 22569995.90 22569996.00 22569996.11 0.1701 0.0720

Jupiter 57085-06-12 18:00 G 22571091.14 22571091.25 22571091.38 0.0496 0.0356

Jupiter 57085-09-11 01:12 G 22571181.49 22571181.55 22571181.62 0.0498 0.0464

Earth 57090-02-28 17:02 G 22572813.10 22572813.21 22572813.31 0.2673 0.0835

Moon 57090-02-28 17:31 G 22572813.13 22572813.23 22572813.34 0.2674 0.0980 *

Jupiter 57091-02-16 00:29 G 22573165.40 22573165.52 22573165.65 0.0531 0.0172

Jupiter 57091-05-16 07:26 G 22573254.77 22573254.81 22573254.84 0.0528 0.0505

Mars 57091-11-03 21:50 G 22573426.29 22573426.41 22573426.53 0.1695 0.0230

Saturn 57092-04-29 03:50 G 22573603.64 22573603.66 22573603.68 0.0290 0.0286

Saturn 57092-07-26 16:19 G 22573692.06 22573692.18 22573692.30 0.0291 0.0118

Earth 57092-09-02 17:17 G 22573730.15 22573730.22 22573730.29 0.2660 0.2361

Moon 57092-09-02 18:29 G 22573730.23 22573730.27 22573730.32 0.2665 0.2528 *

Saturn 57092-10-23 04:48 G 22573780.57 22573780.70 22573780.83 0.0291 0.0049

Saturn 57093-01-19 17:02 G 22573869.12 22573869.21 22573869.30 0.0292 0.0216

Venus 57094-02-16 18:14 G 22574262.11 22574262.26 22574262.42 0.3688 0.0631

Moon 57097-02-21 14:53 G 22575363.11 22575363.12 22575363.13 0.2680 0.2656

Earth 57097-02-21 15:36 G 22575363.12 22575363.15 22575363.18 0.2676 0.2554 *

Jupiter 57097-06-29 22:48 G 22575491.29 22575491.45 22575491.61 0.0498 0.0255

Mars 57101-03-27 07:41 G 22576856.73 22576856.82 22576856.91 0.1690 0.1166

Jupiter 57102-12-06 04:34 G 22577475.60 22577475.69 22577475.79 0.0532 0.0338

Earth 57103-03-04 10:48 G 22577563.88 22577563.95 22577564.02 0.2671 0.1996

Moon 57103-03-04 11:31 G 22577563.91 22577563.98 22577564.05 0.2669 0.2021 *

Jupiter 57103-03-05 11:46 G 22577564.89 22577564.99 22577565.08 0.0529 0.0346

Mars 57103-12-25 17:02 G 22577860.06 22577860.21 22577860.36 0.1827 0.0527

Saturn 57106-08-22 02:10 G 22578830.46 22578830.59 22578830.73 0.0269 0.0174

Saturn 57106-11-18 22:19 G 22578919.25 22578919.43 22578919.62 0.0269 0.0010

Saturn 57107-02-15 18:43 G 22579008.16 22579008.28 22579008.41 0.0268 0.0191

Jupiter 57109-04-18 20:53 G 22579801.19 22579801.37 22579801.55 0.0497 0.0056

Moon 57110-02-25 09:36 G 22580113.81 22580113.90 22580114.00 0.2682 0.1351

Earth 57110-02-25 09:50 G 22580113.81 22580113.91 22580114.00 0.2675 0.1335 *

Moon 57112-08-29 11:17 G 22581029.88 22581029.97 22581030.07 0.2663 0.2040

Earth 57112-08-29 12:00 G 22581029.89 22581030.00 22581030.10 0.2657 0.1883 *

Mars 57113-05-16 16:34 G 22581290.08 22581290.19 22581290.30 0.1834 0.1313

Jupiter 57114-09-24 08:10 G 22581785.81 22581785.84 22581785.87 0.0532 0.0516

Venus 57114-09-26 12:29 G 22581787.94 22581788.02 22581788.10 0.3683 0.2092

Jupiter 57114-12-22 15:22 G 22581875.02 22581875.14 22581875.27 0.0529 0.0176

Uranus 57117-03-30 21:07 G 22582704.30 22582704.38 22582704.47 0.0140 0.0125

Uranus 57117-06-27 04:48 G 22582792.56 22582792.70 22582792.84 0.0140 0.0095

Uranus 57117-09-23 12:14 G 22582880.85 22582881.01 22582881.19 0.0140 0.0066

Neptune 57117-11-11 09:50 G 22582929.88 22582929.91 22582929.97 0.0089 0.0084

Uranus 57117-12-20 20:10 G 22582969.15 22582969.34 22582969.52 0.0139 0.0036

Neptune 57118-02-07 11:17 G 22583017.91 22583017.97 22583018.05 0.0089 0.0076

Uranus 57118-03-19 03:50 G 22583057.47 22583057.66 22583057.85 0.0139 0.0006

Neptune 57118-05-06 12:43 G 22583105.95 22583106.03 22583106.13 0.0089 0.0067

Uranus 57118-06-15 11:31 G 22583145.79 22583145.98 22583146.17 0.0139 0.0024

Neptune 57118-08-02 14:10 G 22583194.00 22583194.09 22583194.20 0.0089 0.0059

Uranus 57118-09-11 19:12 G 22583234.12 22583234.30 22583234.48 0.0139 0.0054

Neptune 57118-10-29 15:36 G 22583282.05 22583282.15 22583282.26 0.0089 0.0051

Uranus 57118-12-09 02:53 G 22583322.47 22583322.62 22583322.77 0.0139 0.0084

Neptune 57119-01-25 17:02 G 22583370.10 22583370.21 22583370.33 0.0089 0.0043

Uranus 57119-03-07 10:19 G 22583410.84 22583410.93 22583411.05 0.0139 0.0115

Neptune 57119-04-23 18:29 G 22583458.15 22583458.27 22583458.39 0.0089 0.0035

Neptune 57119-07-20 19:55 G 22583546.20 22583546.33 22583546.46 0.0089 0.0027

Neptune 57119-10-16 21:07 G 22583634.25 22583634.38 22583634.52 0.0089 0.0020

Neptune 57120-01-12 22:34 G 22583722.31 22583722.44 22583722.57 0.0089 0.0012

Neptune 57120-04-10 00:00 G 22583810.36 22583810.50 22583810.63 0.0089 0.0004

Venus 57120-04-11 03:36 G 22583811.55 22583811.65 22583811.75 0.3683 0.0371

Neptune 57120-07-07 01:12 G 22583898.42 22583898.55 22583898.69 0.0089 0.0005

Neptune 57120-10-03 02:38 G 22583986.48 22583986.61 22583986.74 0.0089 0.0012

Neptune 57120-12-30 04:05 G 22584074.54 22584074.67 22584074.80 0.0089 0.0020

Jupiter 57121-02-04 18:58 G 22584111.12 22584111.29 22584111.46 0.0497 0.0143

Neptune 57121-03-28 05:17 G 22584162.60 22584162.72 22584162.85 0.0089 0.0028

Neptune 57121-06-24 06:29 G 22584250.66 22584250.77 22584250.90 0.0089 0.0036

Neptune 57121-09-20 08:10 G 22584338.72 22584338.84 22584338.95 0.0089 0.0043

Mars 57121-12-13 12:14 G 22584422.90 22584423.01 22584423.11 0.1701 0.0857

Saturn 57121-12-14 17:46 G 22584424.14 22584424.24 22584424.35 0.0291 0.0173

Neptune 57121-12-17 09:22 G 22584426.79 22584426.89 22584427.00 0.0089 0.0051

Saturn 57122-03-13 06:14 G 22584512.63 22584512.76 22584512.90 0.0291 0.0007

Neptune 57122-03-15 10:34 G 22584514.85 22584514.94 22584515.05 0.0089 0.0059

Saturn 57122-06-09 18:43 G 22584601.17 22584601.28 22584601.39 0.0292 0.0162

Neptune 57122-06-11 11:46 G 22584602.92 22584602.99 22584603.09 0.0089 0.0067

Neptune 57122-09-07 13:26 G 22584690.99 22584691.06 22584691.13 0.0089 0.0074

Neptune 57122-12-04 14:38 G 22584779.07 22584779.11 22584779.17 0.0089 0.0082

Earth 57123-02-28 03:50 G 22584864.55 22584864.66 22584864.77 0.2674 0.0130

Moon 57123-02-28 04:19 G 22584864.57 22584864.68 22584864.79 0.2680 0.0105 *

Earth 57125-09-01 17:46 G 22585781.09 22585781.24 22585781.39 0.2659 0.0419

Moon 57125-09-01 18:14 G 22585781.11 22585781.26 22585781.41 0.2665 0.0582 *

Venus 57125-10-25 18:58 G 22585835.22 22585835.29 22585835.35 0.3683 0.2773

Jupiter 57126-10-10 19:26 G 22586185.18 22586185.31 22586185.44 0.0530 0.0015

Mars 57131-05-05 22:05 G 22587853.29 22587853.42 22587853.54 0.1696 0.0101

Jupiter 57132-11-23 16:48 G 22588421.07 22588421.20 22588421.33 0.0496 0.0347

Jupiter 57133-02-21 23:46 G 22588511.44 22588511.49 22588511.55 0.0498 0.0473

Saturn 57136-01-09 02:38 G 22589562.51 22589562.61 22589562.73 0.0270 0.0216

Earth 57136-03-01 21:50 G 22589615.31 22589615.41 22589615.51 0.2673 0.1056

Moon 57136-03-01 22:34 G 22589615.34 22589615.44 22589615.54 0.2673 0.1083 *

Saturn 57136-04-06 23:02 G 22589651.28 22589651.46 22589651.64 0.0269 0.0034

Saturn 57136-07-04 19:26 G 22589740.15 22589740.31 22589740.46 0.0269 0.0150

Jupiter 57138-07-29 22:48 G 22590495.33 22590495.45 22590495.57 0.0531 0.0176

Jupiter 57138-10-27 05:46 G 22590584.70 22590584.74 22590584.77 0.0529 0.0501

Pluto 57139-02-22 17:31 G 22590703.13 22590703.23 22590703.35 0.0077 0.0061

Pluto 57139-05-21 19:41 G 22590791.17 22590791.32 22590791.48 0.0077 0.0040

Pluto 57139-08-17 22:05 G 22590879.24 22590879.42 22590879.60 0.0077 0.0018

Pluto 57139-11-14 00:14 G 22590967.33 22590967.51 22590967.69 0.0077 0.0003

Pluto 57140-02-10 02:10 G 22591055.43 22591055.59 22591055.77 0.0077 0.0024

Pluto 57140-05-08 04:19 G 22591143.54 22591143.68 22591143.84 0.0077 0.0045

Pluto 57140-08-04 06:29 G 22591231.69 22591231.77 22591231.87 0.0077 0.0066

Mars 57140-09-25 07:41 G 22591283.73 22591283.82 22591283.92 0.1690 0.1024

Moon 57143-02-23 19:55 G 22592165.28 22592165.33 22592165.38 0.2680 0.2361

Earth 57143-02-23 20:24 G 22592165.30 22592165.35 22592165.41 0.2676 0.2319 *

Mars 57143-06-25 17:31 G 22592287.09 22592287.23 22592287.37 0.1827 0.0755

Jupiter 57144-12-10 21:22 G 22592821.24 22592821.39 22592821.54 0.0497 0.0265

Earth 57149-03-04 15:36 G 22594366.09 22594366.15 22594366.21 0.2671 0.2210

Moon 57149-03-04 16:05 G 22594366.12 22594366.17 22594366.22 0.2668 0.2335 *

Jupiter 57150-05-18 02:53 G 22594805.52 22594805.62 22594805.72 0.0532 0.0344

Jupiter 57150-08-15 09:50 G 22594894.82 22594894.91 22594895.01 0.0529 0.0342

Venus 57150-09-24 20:38 G 22594935.32 22594935.36 22594935.39 0.3688 0.3560

Saturn 57151-05-03 20:38 G 22595156.27 22595156.36 22595156.45 0.0290 0.0212

Saturn 57151-07-31 09:07 G 22595244.74 22595244.88 22595245.01 0.0291 0.0044

Saturn 57151-10-27 21:22 G 22595333.27 22595333.39 22595333.51 0.0291 0.0123

Saturn 57152-01-24 09:36 G 22595421.89 22595421.90 22595421.92 0.0292 0.0288

Mars 57152-11-14 17:02 G 22595717.09 22595717.21 22595717.33 0.1833 0.1092

Moon 57156-02-26 14:38 G 22596916.01 22596916.11 22596916.21 0.2682 0.1113

Earth 57156-02-26 14:38 G 22596916.01 22596916.11 22596916.21 0.2675 0.1099 *

Jupiter 57156-09-28 18:43 G 22597131.10 22597131.28 22597131.46 0.0497 0.0056

Moon 57158-08-30 18:14 G 22597832.13 22597832.26 22597832.38 0.2664 0.1430

Earth 57158-08-30 18:29 G 22597832.14 22597832.27 22597832.39 0.2657 0.1475 *

Uranus 57160-09-25 05:31 G 22598588.68 22598588.73 22598588.79 0.0138 0.0126

Uranus 57160-12-22 08:53 G 22598676.79 22598676.87 22598676.96 0.0138 0.0105

Uranus 57161-03-20 12:14 G 22598764.91 22598765.01 22598765.12 0.0138 0.0085

Mars 57161-06-13 12:14 G 22598849.91 22598850.01 22598850.10 0.1701 0.0998

Uranus 57161-06-16 15:36 G 22598853.04 22598853.15 22598853.27 0.0139 0.0064

Uranus 57161-09-12 18:58 G 22598941.17 22598941.29 22598941.42 0.0139 0.0044

Uranus 57161-12-09 22:19 G 22599029.30 22599029.43 22599029.57 0.0139 0.0024

Jupiter 57162-03-06 06:58 G 22599115.76 22599115.79 22599115.82 0.0532 0.0512

Uranus 57162-03-08 01:41 G 22599117.44 22599117.57 22599117.71 0.0139 0.0006

Jupiter 57162-06-03 14:10 G 22599204.97 22599205.09 22599205.22 0.0530 0.0182

Uranus 57162-06-04 05:02 G 22599205.58 22599205.71 22599205.85 0.0139 0.0019

Uranus 57162-08-31 08:24 G 22599293.73 22599293.85 22599293.98 0.0139 0.0039

Uranus 57162-11-27 11:46 G 22599381.87 22599381.99 22599382.11 0.0139 0.0059

Uranus 57163-02-23 15:07 G 22599470.02 22599470.13 22599470.24 0.0139 0.0080

Uranus 57163-05-22 18:14 G 22599558.18 22599558.26 22599558.36 0.0139 0.0101

Uranus 57163-08-18 21:36 G 22599646.34 22599646.40 22599646.47 0.0139 0.0121

Saturn 57165-08-24 20:53 G 22600383.20 22600383.37 22600383.54 0.0269 0.0099

Venus 57165-10-17 18:29 G 22600437.26 22600437.27 22600437.28 0.3683 0.3633

Saturn 57165-11-21 17:17 G 22600472.04 22600472.22 22600472.39 0.0269 0.0084

Saturn 57166-02-18 13:41 G 22600561.07 22600561.07 22600561.08 0.0268 0.0268

Jupiter 57168-07-17 16:48 G 22601441.03 22601441.20 22601441.38 0.0497 0.0144

Earth 57169-02-28 08:38 G 22601666.75 22601666.86 22601666.97 0.2674 0.0108

Moon 57169-02-28 09:07 G 22601666.77 22601666.88 22601666.99 0.2678 0.0156 *

Mars 57170-11-03 21:50 G 22602280.29 22602280.41 22602280.54 0.1695 0.0066

Venus 57171-05-03 09:50 G 22602460.81 22602460.91 22602461.00 0.3683 0.1180

Earth 57171-09-03 00:14 G 22602583.36 22602583.51 22602583.65 0.2659 0.0840

Moon 57171-09-03 00:43 G 22602583.39 22602583.53 22602583.68 0.2665 0.0806 *

Jupiter 57174-03-22 18:00 G 22603515.12 22603515.25 22603515.38 0.0530 0.0014

Venus 57176-11-16 00:58 G 22604484.45 22604484.54 22604484.64 0.3683 0.1262

Mars 57180-03-26 07:55 G 22605710.72 22605710.83 22605710.93 0.1690 0.0876

Jupiter 57180-05-05 15:07 G 22605751.00 22605751.13 22605751.26 0.0496 0.0340

Jupiter 57180-08-03 22:05 G 22605841.39 22605841.42 22605841.47 0.0499 0.0483

Saturn 57180-09-19 22:05 G 22605888.37 22605888.42 22605888.47 0.0290 0.0266

Saturn 57180-12-17 10:34 G 22605976.82 22605976.94 22605977.07 0.0291 0.0098

Saturn 57181-03-15 23:02 G 22606065.33 22606065.46 22606065.59 0.0292 0.0070

Saturn 57181-06-12 11:17 G 22606153.90 22606153.97 22606154.05 0.0292 0.0236

Earth 57182-03-03 02:38 G 22606417.51 22606417.61 22606417.71 0.2672 0.1271

Moon 57182-03-03 03:22 G 22606417.55 22606417.64 22606417.73 0.2673 0.1415 *

Venus 57182-06-01 16:19 G 22606508.17 22606508.18 22606508.18 0.3682 0.3668

Mars 57182-12-24 18:14 G 22606714.13 22606714.26 22606714.39 0.1826 0.1000

Jupiter 57186-01-08 21:50 G 22607825.28 22607825.41 22607825.53 0.0531 0.0167

Jupiter 57186-04-08 04:34 G 22607914.66 22607914.69 22607914.72 0.0528 0.0508

Moon 57189-02-24 00:58 G 22608967.48 22608967.54 22608967.60 0.2681 0.2194

Earth 57189-02-24 01:26 G 22608967.49 22608967.56 22608967.62 0.2676 0.2088 *

Mars 57192-05-15 17:31 G 22610144.09 22610144.23 22610144.36 0.1833 0.0885

Jupiter 57192-05-22 19:41 G 22610151.17 22610151.32 22610151.47 0.0497 0.0270

Saturn 57195-01-11 21:36 G 22611115.25 22611115.40 22611115.56 0.0270 0.0139

Earth 57195-03-05 20:24 G 22611168.31 22611168.35 22611168.40 0.2671 0.2430

Moon 57195-03-05 20:53 G 22611168.33 22611168.37 22611168.42 0.2666 0.2418 *

Saturn 57195-04-10 18:00 G 22611204.07 22611204.25 22611204.43 0.0269 0.0044

Saturn 57195-07-08 14:24 G 22611293.01 22611293.10 22611293.20 0.0269 0.0228

Jupiter 57197-10-28 00:58 G 22612135.45 22612135.54 22612135.64 0.0532 0.0353

Jupiter 57198-01-25 08:10 G 22612224.74 22612224.84 22612224.94 0.0529 0.0334

Mars 57200-12-12 12:14 G 22613276.92 22613277.01 22613277.10 0.1701 0.1137

Uranus 57201-04-20 04:19 G 22613405.59 22613405.68 22613405.79 0.0140 0.0117

Uranus 57201-07-17 12:00 G 22613493.86 22613494.00 22613494.15 0.0140 0.0087

Uranus 57201-10-13 19:41 G 22613582.15 22613582.32 22613582.50 0.0139 0.0057

Venus 57201-10-15 12:58 G 22613583.92 22613584.04 22613584.16 0.3687 0.2251

Neptune 57202-01-08 08:53 G 22613668.80 22613668.87 22613668.98 0.0088 0.0079

Uranus 57202-01-10 03:22 G 22613670.45 22613670.64 22613670.83 0.0139 0.0027

Moon 57202-02-26 19:41 G 22613718.21 22613718.32 22613718.42 0.2682 0.0844

Earth 57202-02-26 19:26 G 22613718.21 22613718.31 22613718.42 0.2675 0.0876 *

Neptune 57202-04-06 12:29 G 22613756.91 22613757.02 22613757.15 0.0088 0.0067

Uranus 57202-04-08 11:02 G 22613758.77 22613758.96 22613759.15 0.0139 0.0003

Neptune 57202-07-03 15:50 G 22613845.03 22613845.16 22613845.32 0.0088 0.0057

Uranus 57202-07-05 18:43 G 22613847.10 22613847.28 22613847.47 0.0139 0.0033

Neptune 57202-09-29 19:26 G 22613933.15 22613933.31 22613933.47 0.0088 0.0046

Uranus 57202-10-02 02:24 G 22613935.43 22613935.60 22613935.78 0.0139 0.0063

Neptune 57202-12-26 22:34 G 22614021.28 22614021.44 22614021.63 0.0088 0.0035

Uranus 57202-12-29 10:05 G 22614023.79 22614023.92 22614024.07 0.0139 0.0093

Neptune 57203-03-25 02:10 G 22614109.41 22614109.59 22614109.78 0.0088 0.0024

Uranus 57203-03-27 17:46 G 22614112.16 22614112.24 22614112.34 0.0139 0.0123

Neptune 57203-06-21 05:31 G 22614197.55 22614197.73 22614197.93 0.0088 0.0013

Neptune 57203-09-17 09:07 G 22614285.69 22614285.88 22614286.07 0.0088 0.0002

Neptune 57203-12-14 12:29 G 22614373.83 22614374.02 22614374.22 0.0088 0.0009

Jupiter 57204-03-10 17:17 G 22614461.04 22614461.22 22614461.40 0.0497 0.0064

Neptune 57204-03-11 15:50 G 22614461.98 22614462.16 22614462.36 0.0088 0.0020

Neptune 57204-06-07 19:12 G 22614550.13 22614550.30 22614550.49 0.0088 0.0032

Moon 57204-08-31 00:43 G 22614634.39 22614634.53 22614634.67 0.2665 0.1126

Earth 57204-08-31 00:43 G 22614634.39 22614634.53 22614634.67 0.2657 0.1067 *

Neptune 57204-09-03 22:48 G 22614638.29 22614638.45 22614638.63 0.0088 0.0042

Neptune 57204-12-01 02:10 G 22614726.45 22614726.59 22614726.75 0.0088 0.0054

Neptune 57205-02-27 05:46 G 22614814.62 22614814.74 22614814.88 0.0088 0.0065

Neptune 57205-05-26 09:22 G 22614902.80 22614902.89 22614902.99 0.0088 0.0076

Neptune 57205-08-22 12:58 G 22614991.01 22614991.04 22614991.07 0.0088 0.0087

Jupiter 57209-08-16 04:48 G 22616445.68 22616445.70 22616445.72 0.0533 0.0524

Jupiter 57209-11-13 12:14 G 22616534.89 22616535.01 22616535.13 0.0530 0.0172

Mars 57210-05-04 22:05 G 22616707.30 22616707.42 22616707.54 0.1696 0.0202

Saturn 57210-05-06 13:41 G 22616708.95 22616709.07 22616709.19 0.0290 0.0131

Saturn 57210-08-03 02:10 G 22616797.46 22616797.59 22616797.72 0.0291 0.0036

Saturn 57210-10-30 14:24 G 22616886.01 22616886.10 22616886.20 0.0291 0.0201

Earth 57215-03-01 13:26 G 22618468.95 22618469.06 22618469.18 0.2674 0.0342

Moon 57215-03-01 14:10 G 22618468.98 22618469.09 22618469.20 0.2677 0.0392 *

Jupiter 57215-12-28 14:38 G 22618770.94 22618771.11 22618771.28 0.0496 0.0146

Earth 57217-09-03 06:43 G 22619385.64 22619385.78 22619385.91 0.2659 0.1261

Moon 57217-09-03 07:26 G 22619385.69 22619385.81 22619385.94 0.2664 0.1454 *

Mars 57219-09-25 07:55 G 22620137.72 22620137.83 22620137.94 0.1690 0.0738

Jupiter 57221-09-01 16:34 G 22620845.06 22620845.19 22620845.32 0.0531 0.0009

Venus 57222-05-24 15:50 G 22621110.09 22621110.16 22621110.23 0.3683 0.2717

Mars 57222-06-24 18:29 G 22621141.15 22621141.27 22621141.38 0.1827 0.1188

Saturn 57224-05-30 20:24 G 22621847.23 22621847.35 22621847.48 0.0270 0.0197

Saturn 57224-08-27 16:34 G 22621936.01 22621936.19 22621936.38 0.0269 0.0016

Saturn 57224-11-24 12:58 G 22622024.90 22622025.04 22622025.18 0.0269 0.0168

Jupiter 57227-10-16 12:43 G 22623080.90 22623081.03 22623081.16 0.0496 0.0343

Venus 57227-12-08 07:12 G 22623133.69 22623133.80 22623133.90 0.3683 0.0320

Jupiter 57228-01-14 19:55 G 22623171.28 22623171.33 22623171.38 0.0498 0.0478

Earth 57228-03-03 07:26 G 22623219.72 22623219.81 22623219.90 0.2672 0.1494

Moon 57228-03-03 08:10 G 22623219.75 22623219.84 22623219.93 0.2672 0.1538 *

Mars 57229-02-14 17:31 G 22623568.22 22623568.23 22623568.24 0.1685 0.1672

Mars 57231-11-14 18:00 G 22624571.11 22624571.25 22624571.40 0.1834 0.0645

Jupiter 57233-06-20 20:10 G 22625155.22 22625155.34 22625155.47 0.0531 0.0167

Venus 57233-06-22 22:19 G 22625157.35 22625157.43 22625157.51 0.3683 0.2159

Jupiter 57233-09-18 02:53 G 22625244.59 22625244.62 22625244.66 0.0528 0.0509

Moon 57235-02-25 06:00 G 22625769.67 22625769.75 22625769.83 0.2682 0.1834

Earth 57235-02-25 06:14 G 22625769.68 22625769.76 22625769.84 0.2676 0.1856 *

Saturn 57239-09-23 15:22 G 22627441.04 22627441.14 22627441.25 0.0291 0.0184

Jupiter 57239-11-02 17:31 G 22627481.08 22627481.23 22627481.39 0.0498 0.0273

Saturn 57239-12-21 03:50 G 22627529.53 22627529.66 22627529.80 0.0291 0.0016

Saturn 57240-03-18 16:05 G 22627618.06 22627618.17 22627618.29 0.0292 0.0152

Mars 57240-06-12 12:14 G 22627703.93 22627704.01 22627704.09 0.1701 0.1277

Earth 57241-03-06 01:12 G 22627970.54 22627970.55 22627970.56 0.2671 0.2644

Uranus 57244-10-15 12:29 G 22629289.96 22629290.02 22629290.08 0.0138 0.0121

Uranus 57245-01-11 15:36 G 22629378.07 22629378.15 22629378.25 0.0138 0.0102

Jupiter 57245-04-08 23:46 G 22629465.40 22629465.49 22629465.59 0.0532 0.0344

Uranus 57245-04-09 19:12 G 22629466.20 22629466.30 22629466.41 0.0138 0.0080

Uranus 57245-07-06 22:34 G 22629554.33 22629554.44 22629554.57 0.0138 0.0060

Jupiter 57245-07-07 06:58 G 22629554.69 22629554.79 22629554.88 0.0529 0.0340

Uranus 57245-10-03 01:55 G 22629642.46 22629642.58 22629642.71 0.0139 0.0040

Uranus 57245-12-30 05:17 G 22629730.59 22629730.72 22629730.86 0.0139 0.0019

Uranus 57246-03-28 08:53 G 22629818.73 22629818.87 22629819.00 0.0139 0.0005

Uranus 57246-06-24 12:00 G 22629906.87 22629907.00 22629907.14 0.0139 0.0023

Uranus 57246-09-20 15:22 G 22629995.02 22629995.14 22629995.27 0.0139 0.0043

Uranus 57246-12-17 18:43 G 22630083.16 22630083.28 22630083.40 0.0139 0.0063

Uranus 57247-03-15 21:50 G 22630171.32 22630171.41 22630171.52 0.0139 0.0085

Uranus 57247-06-12 01:12 G 22630259.47 22630259.55 22630259.65 0.0139 0.0105

Uranus 57247-09-08 04:48 G 22630347.64 22630347.70 22630347.75 0.0139 0.0125

Earth 57248-02-28 00:29 G 22630520.41 22630520.52 22630520.63 0.2674 0.0646

Moon 57248-02-28 00:29 G 22630520.42 22630520.52 22630520.63 0.2681 0.0671 *

Mars 57249-11-02 22:05 G 22631134.30 22631134.42 22631134.54 0.1696 0.0344

Earth 57250-09-01 07:12 G 22631436.65 22631436.80 22631436.95 0.2658 0.0651

Moon 57250-09-01 07:12 G 22631436.66 22631436.80 22631436.95 0.2665 0.0617 *

Jupiter 57251-08-21 15:22 G 22631790.96 22631791.14 22631791.32 0.0497 0.0066

Saturn 57253-10-17 21:07 G 22632579.30 22632579.38 22632579.47 0.0270 0.0238

Saturn 57254-01-14 17:17 G 22632668.05 22632668.22 22632668.40 0.0270 0.0056

Saturn 57254-04-13 13:41 G 22632756.91 22632757.07 22632757.23 0.0269 0.0128

Jupiter 57257-04-25 10:19 G 22633864.81 22633864.93 22633865.05 0.0530 0.0161

Venus 57258-05-22 15:07 G 22634256.97 22634257.13 22634257.28 0.3688 0.0597

Mars 57259-03-26 07:55 G 22634564.72 22634564.83 22634564.94 0.1690 0.0591

Earth 57261-03-01 18:29 G 22635271.16 22635271.27 22635271.37 0.2673 0.0552

Moon 57261-03-01 18:58 G 22635271.19 22635271.29 22635271.40 0.2676 0.0658 *

Mars 57261-12-23 19:12 G 22635568.20 22635568.30 22635568.39 0.1827 0.1429

Jupiter 57263-06-09 12:58 G 22636100.87 22636101.04 22636101.22 0.0496 0.0139

Earth 57263-09-04 13:12 G 22636187.93 22636188.05 22636188.17 0.2659 0.1684

Moon 57263-09-04 14:24 G 22636187.99 22636188.10 22636188.22 0.2663 0.1747 *

Mars 57268-08-15 17:31 G 22637995.19 22637995.23 22637995.28 0.1685 0.1526

Saturn 57269-02-09 18:58 G 22638173.20 22638173.29 22638173.38 0.0290 0.0212

Jupiter 57269-02-11 14:24 G 22638174.97 22638175.10 22638175.23 0.0531 0.0006

Saturn 57269-05-09 07:26 G 22638261.68 22638261.81 22638261.94 0.0290 0.0045

Saturn 57269-08-05 19:55 G 22638350.21 22638350.33 22638350.45 0.0291 0.0122

Saturn 57269-11-02 08:10 G 22638438.82 22638438.84 22638438.86 0.0291 0.0287

Mars 57271-05-15 18:14 G 22638998.11 22638998.26 22638998.41 0.1833 0.0445

Earth 57274-03-04 12:14 G 22640021.93 22640022.01 22640022.10 0.2672 0.1716

Moon 57274-03-04 12:58 G 22640021.96 22640022.04 22640022.12 0.2670 0.1807 *

Jupiter 57275-03-28 10:19 G 22640410.80 22640410.93 22640411.06 0.0496 0.0349

Jupiter 57275-06-26 17:02 G 22640501.16 22640501.21 22640501.28 0.0498 0.0470

Venus 57278-12-29 13:12 G 22641782.96 22641783.05 22641783.13 0.3683 0.1818

Mars 57279-12-12 12:14 G 22642130.95 22642131.01 22642131.08 0.1701 0.1419

Jupiter 57280-11-30 18:29 G 22642485.15 22642485.27 22642485.40 0.0531 0.0171

Moon 57281-02-25 10:48 G 22642571.87 22642571.95 22642572.04 0.2683 0.1730

Earth 57281-02-25 11:02 G 22642571.88 22642571.96 22642572.05 0.2676 0.1627 *

Jupiter 57281-02-28 01:26 G 22642574.53 22642574.56 22642574.59 0.0529 0.0507

Neptune 57282-05-12 08:24 G 22643012.83 22643012.85 22643012.87 0.0089 0.0088

Neptune 57282-08-08 09:50 G 22643100.85 22643100.91 22643100.97 0.0089 0.0080

Neptune 57282-11-04 11:17 G 22643188.89 22643188.97 22643189.05 0.0089 0.0072

Neptune 57283-01-31 12:43 G 22643276.93 22643277.03 22643277.12 0.0089 0.0064

Neptune 57283-04-29 13:55 G 22643364.98 22643365.08 22643365.19 0.0089 0.0056

Saturn 57283-06-03 16:48 G 22643400.03 22643400.20 22643400.37 0.0269 0.0108

Neptune 57283-07-26 15:22 G 22643453.03 22643453.14 22643453.26 0.0089 0.0048

Earth 57283-08-30 07:55 G 22643487.79 22643487.83 22643487.88 0.2656 0.2506

Moon 57283-08-30 07:26 G 22643487.80 22643487.81 22643487.83 0.2663 0.2642 *

Saturn 57283-08-31 12:58 G 22643488.87 22643489.04 22643489.22 0.0269 0.0074

Neptune 57283-10-22 16:48 G 22643541.08 22643541.20 22643541.32 0.0089 0.0040

Saturn 57283-11-28 09:22 G 22643577.85 22643577.89 22643577.94 0.0269 0.0259

Neptune 57284-01-18 18:00 G 22643629.13 22643629.25 22643629.38 0.0089 0.0032

Neptune 57284-04-15 19:26 G 22643717.19 22643717.31 22643717.45 0.0089 0.0024

Neptune 57284-07-12 20:53 G 22643805.24 22643805.37 22643805.51 0.0089 0.0016

Venus 57284-07-14 04:19 G 22643806.58 22643806.68 22643806.78 0.3683 0.0654

Neptune 57284-10-08 22:19 G 22643893.30 22643893.43 22643893.56 0.0089 0.0008

Neptune 57285-01-04 23:46 G 22643981.35 22643981.49 22643981.62 0.0089 0.0002

Uranus 57285-02-11 04:05 G 22644018.65 22644018.67 22644018.70 0.0140 0.0138

Neptune 57285-04-03 00:58 G 22644069.41 22644069.54 22644069.68 0.0089 0.0008

Uranus 57285-05-10 11:17 G 22644106.87 22644106.97 22644107.11 0.0140 0.0109

Neptune 57285-06-30 02:24 G 22644157.47 22644157.60 22644157.73 0.0089 0.0016

Uranus 57285-08-06 19:12 G 22644195.15 22644195.30 22644195.46 0.0140 0.0079

Neptune 57285-09-26 03:36 G 22644245.53 22644245.65 22644245.79 0.0089 0.0024

Uranus 57285-11-03 02:53 G 22644283.44 22644283.62 22644283.80 0.0139 0.0049

Neptune 57285-12-23 05:02 G 22644333.59 22644333.71 22644333.84 0.0089 0.0032

Uranus 57286-01-30 10:34 G 22644371.75 22644371.94 22644372.13 0.0139 0.0019

Neptune 57286-03-21 06:29 G 22644421.65 22644421.77 22644421.89 0.0089 0.0039

Uranus 57286-04-28 18:14 G 22644460.07 22644460.26 22644460.45 0.0139 0.0011

Neptune 57286-06-17 07:41 G 22644509.71 22644509.82 22644509.94 0.0089 0.0047

Uranus 57286-07-26 01:55 G 22644548.40 22644548.58 22644548.77 0.0139 0.0041

Neptune 57286-09-13 08:53 G 22644597.78 22644597.87 22644597.99 0.0089 0.0055

Uranus 57286-10-22 09:36 G 22644636.74 22644636.90 22644637.07 0.0139 0.0071

Neptune 57286-12-10 10:19 G 22644685.85 22644685.93 22644686.03 0.0089 0.0063

Uranus 57287-01-18 17:17 G 22644725.10 22644725.22 22644725.36 0.0139 0.0101

Neptune 57287-03-08 11:46 G 22644773.91 22644773.99 22644774.07 0.0089 0.0070

Jupiter 57287-04-14 14:53 G 22644810.97 22644811.12 22644811.28 0.0498 0.0265

Uranus 57287-04-17 01:12 G 22644813.49 22644813.55 22644813.61 0.0139 0.0131

Neptune 57287-06-04 12:58 G 22644861.99 22644862.04 22644862.11 0.0089 0.0078

Neptune 57287-08-31 14:10 G 22644950.07 22644950.09 22644950.14 0.0089 0.0086

Mars 57289-05-03 22:05 G 22645561.30 22645561.42 22645561.54 0.1696 0.0479

Venus 57290-01-27 19:41 G 22645830.26 22645830.32 22645830.37 0.3682 0.3048

Jupiter 57292-09-18 22:19 G 22646795.33 22646795.43 22646795.52 0.0532 0.0346

Jupiter 57292-12-17 05:17 G 22646884.63 22646884.72 22646884.82 0.0529 0.0339

Earth 57294-02-28 05:17 G 22647322.61 22647322.72 22647322.83 0.2674 0.0420

Moon 57294-02-28 05:31 G 22647322.62 22647322.73 22647322.84 0.2680 0.0331 *

Earth 57296-09-01 13:41 G 22648238.92 22648239.07 22648239.22 0.2658 0.0237

Moon 57296-09-01 13:55 G 22648238.93 22648239.08 22648239.23 0.2664 0.0221 *

Pluto 57298-04-01 09:50 G 22648815.85 22648815.91 22648815.99 0.0067 0.0058

Pluto 57298-06-28 10:34 G 22648903.85 22648903.94 22648904.04 0.0067 0.0047

Saturn 57298-06-29 20:24 G 22648905.31 22648905.35 22648905.41 0.0290 0.0266

Mars 57298-09-24 07:55 G 22648991.71 22648991.83 22648991.95 0.1690 0.0449

Pluto 57298-09-24 11:17 G 22648991.85 22648991.97 22648992.09 0.0067 0.0036 *

Saturn 57298-09-26 09:07 G 22648993.75 22648993.88 22648994.01 0.0291 0.0097

Pluto 57298-12-21 11:46 G 22649079.87 22649079.99 22649080.13 0.0067 0.0026

Saturn 57298-12-23 21:36 G 22649082.27 22649082.40 22649082.53 0.0291 0.0070

Jupiter 57299-01-31 12:58 G 22649120.86 22649121.04 22649121.22 0.0497 0.0062

Pluto 57299-03-19 12:29 G 22649167.88 22649168.02 22649168.16 0.0067 0.0015

Saturn 57299-03-22 09:50 G 22649170.83 22649170.91 22649170.98 0.0292 0.0236

Pluto 57299-06-15 12:58 G 22649255.91 22649256.04 22649256.19 0.0067 0.0005

Pluto 57299-09-11 13:41 G 22649343.93 22649344.07 22649344.21 0.0067 0.0007

Pluto 57299-12-08 14:10 G 22649431.96 22649432.09 22649432.23 0.0068 0.0019

Pluto 57300-03-06 14:38 G 22649520.00 22649520.11 22649520.25 0.0068 0.0030

Pluto 57300-06-02 15:22 G 22649608.04 22649608.14 22649608.26 0.0068 0.0041

Pluto 57300-08-29 15:50 G 22649696.09 22649696.16 22649696.26 0.0068 0.0052

Pluto 57300-11-25 16:34 G 22649784.15 22649784.19 22649784.25 0.0068 0.0063

Mars 57301-06-24 19:41 G 22649995.26 22649995.32 22649995.38 0.1826 0.1656

Jupiter 57304-07-09 01:41 G 22651105.56 22651105.57 22651105.59 0.0532 0.0527

Jupiter 57304-10-06 09:07 G 22651194.76 22651194.88 22651195.00 0.0530 0.0167

Earth 57307-03-03 23:17 G 22652073.36 22652073.47 22652073.57 0.2673 0.0771

Moon 57307-03-04 00:00 G 22652073.39 22652073.50 22652073.60 0.2676 0.0822 *

Mars 57308-02-15 17:46 G 22652422.17 22652422.24 22652422.31 0.1685 0.1378

Earth 57309-09-05 19:41 G 22652990.23 22652990.32 22652990.42 0.2659 0.2115

Moon 57309-09-05 21:07 G 22652990.31 22652990.38 22652990.46 0.2663 0.2324 *

Mars 57310-11-14 18:58 G 22653425.14 22653425.29 22653425.44 0.1833 0.0214

Jupiter 57310-11-20 10:48 G 22653430.78 22653430.95 22653431.13 0.0496 0.0140

Saturn 57312-10-21 17:31 G 22654132.08 22654132.23 22654132.39 0.0270 0.0149

Saturn 57313-01-18 13:55 G 22654220.90 22654221.08 22654221.26 0.0269 0.0035

Saturn 57313-04-17 10:05 G 22654309.82 22654309.92 22654310.03 0.0269 0.0219

Earth 57314-02-24 21:50 G 22654623.39 22654623.41 22654623.43 0.2677 0.2619

Venus 57314-12-28 17:17 G 22654930.18 22654930.22 22654930.27 0.3688 0.3509

Jupiter 57316-07-25 12:14 G 22655504.89 22655505.01 22655505.14 0.0531 0.0026

Mars 57319-06-13 12:14 G 22656557.97 22656558.01 22656558.06 0.1701 0.1558

Earth 57320-03-05 17:02 G 22656824.14 22656824.21 22656824.29 0.2672 0.1936

Moon 57320-03-05 17:46 G 22656824.17 22656824.24 22656824.31 0.2668 0.2014 *

Jupiter 57322-09-08 08:38 G 22657740.73 22657740.86 22657740.99 0.0495 0.0341

Jupiter 57322-12-07 15:22 G 22657831.10 22657831.14 22657831.20 0.0498 0.0476

Moon 57327-02-27 15:50 G 22659374.06 22659374.16 22659374.25 0.2682 0.1361

Earth 57327-02-27 16:05 G 22659374.07 22659374.17 22659374.26 0.2675 0.1396 *

Saturn 57328-02-14 12:58 G 22659725.92 22659726.04 22659726.16 0.0290 0.0123

Saturn 57328-05-13 01:26 G 22659814.42 22659814.56 22659814.69 0.0291 0.0045

Jupiter 57328-05-13 16:19 G 22659815.06 22659815.18 22659815.30 0.0532 0.0188

Saturn 57328-08-09 13:41 G 22659902.98 22659903.07 22659903.16 0.0291 0.0209

Uranus 57328-08-09 16:19 G 22659903.17 22659903.18 22659903.20 0.0138 0.0136

Jupiter 57328-08-10 23:02 G 22659904.42 22659904.46 22659904.51 0.0529 0.0492

Mars 57328-11-02 22:05 G 22659988.31 22659988.42 22659988.54 0.1695 0.0624

Uranus 57328-11-05 19:55 G 22659991.26 22659991.33 22659991.40 0.0138 0.0116

Uranus 57329-02-01 23:02 G 22660079.37 22660079.46 22660079.56 0.0138 0.0095

Uranus 57329-05-01 02:38 G 22660167.50 22660167.61 22660167.72 0.0138 0.0075

Uranus 57329-07-28 05:46 G 22660255.63 22660255.74 22660255.87 0.0138 0.0055

Moon 57329-08-31 13:55 G 22660289.99 22660290.08 22660290.18 0.2663 0.2070

Earth 57329-08-31 14:24 G 22660290.01 22660290.10 22660290.20 0.2657 0.2099 *

Uranus 57329-10-24 09:22 G 22660343.76 22660343.89 22660344.02 0.0139 0.0034

Uranus 57330-01-20 12:43 G 22660431.89 22660432.03 22660432.16 0.0139 0.0013

Venus 57330-01-20 19:12 G 22660432.26 22660432.30 22660432.34 0.3683 0.3366

Uranus 57330-04-18 16:05 G 22660520.03 22660520.17 22660520.30 0.0139 0.0008

Uranus 57330-07-15 19:26 G 22660608.18 22660608.31 22660608.44 0.0139 0.0028

Uranus 57330-10-11 22:34 G 22660696.32 22660696.44 22660696.57 0.0139 0.0049

Uranus 57331-01-08 01:55 G 22660784.47 22660784.58 22660784.70 0.0139 0.0069

Uranus 57331-04-06 05:17 G 22660872.62 22660872.72 22660872.82 0.0139 0.0089

Uranus 57331-07-03 08:24 G 22660960.78 22660960.85 22660960.94 0.0139 0.0110

Uranus 57331-09-29 11:46 G 22661048.95 22661048.99 22661049.04 0.0139 0.0130

Jupiter 57334-09-25 12:14 G 22662140.85 22662141.01 22662141.16 0.0497 0.0255

Venus 57335-08-06 10:34 G 22662455.84 22662455.94 22662456.04 0.3683 0.0906

Mars 57338-03-26 07:55 G 22663418.71 22663418.83 22663418.95 0.1690 0.0309

Earth 57340-03-01 10:05 G 22664124.81 22664124.92 22664125.03 0.2674 0.0192

Moon 57340-03-01 10:34 G 22664124.83 22664124.94 22664125.05 0.2679 0.0200 *

Jupiter 57340-03-01 20:24 G 22664125.25 22664125.35 22664125.44 0.0532 0.0354

Jupiter 57340-05-30 03:36 G 22664214.55 22664214.65 22664214.75 0.0529 0.0334

Venus 57341-02-19 01:41 G 22664479.48 22664479.57 22664479.66 0.3682 0.1543

Saturn 57342-03-10 17:46 G 22664864.12 22664864.24 22664864.36 0.0270 0.0195

Saturn 57342-06-07 13:55 G 22664952.89 22664953.08 22664953.26 0.0269 0.0015

Earth 57342-09-03 20:10 G 22665041.18 22665041.34 22665041.49 0.2658 0.0178

Moon 57342-09-03 20:38 G 22665041.21 22665041.36 22665041.51 0.2664 0.0202 *

Saturn 57342-09-04 10:05 G 22665041.78 22665041.92 22665042.06 0.0269 0.0170

Jupiter 57346-07-14 10:05 G 22666450.74 22666450.92 22666451.10 0.0497 0.0051

Mars 57347-08-16 17:46 G 22666849.16 22666849.24 22666849.32 0.1685 0.1239

Mars 57350-05-15 19:26 G 22667852.16 22667852.31 22667852.47 0.1834 0.0033

Jupiter 57351-12-20 00:00 G 22668435.49 22668435.50 22668435.51 0.0533 0.0531

Jupiter 57352-03-18 07:26 G 22668524.69 22668524.81 22668524.93 0.0530 0.0164

Earth 57353-03-04 04:05 G 22668875.57 22668875.67 22668875.77 0.2673 0.0987

Moon 57353-03-04 04:48 G 22668875.60 22668875.70 22668875.80 0.2675 0.1119 *

Earth 57355-09-07 02:10 G 22669792.55 22669792.59 22669792.64 0.2660 0.2538

Moon 57355-09-07 03:36 G 22669792.65 22669792.65 22669792.66 0.2664 0.2661

Saturn 57357-07-03 14:24 G 22670458.00 22670458.10 22670458.21 0.0291 0.0176

Saturn 57357-09-30 03:07 G 22670546.49 22670546.63 22670546.76 0.0291 0.0013

Saturn 57357-12-27 15:22 G 22670635.03 22670635.14 22670635.25 0.0292 0.0159

Jupiter 57358-05-02 08:10 G 22670760.67 22670760.84 22670761.01 0.0496 0.0148

Mars 57358-12-12 12:14 G 22670985.01 22670985.01 22670985.02 0.1701 0.1696

Mars 57359-10-05 18:58 G 22671282.29 22671282.29 22671282.30 0.1840 0.1836

Moon 57360-02-26 02:10 G 22671425.55 22671425.59 22671425.63 0.2682 0.2437

Earth 57360-02-26 02:38 G 22671425.56 22671425.61 22671425.66 0.2677 0.2389 *

Jupiter 57364-01-05 11:02 G 22672834.83 22672834.96 22672835.09 0.0531 0.0016

Venus 57366-01-18 09:36 G 22673578.78 22673578.90 22673579.02 0.3688 0.2322

Earth 57366-03-06 22:05 G 22673626.35 22673626.42 22673626.48 0.2672 0.2152

Moon 57366-03-06 22:34 G 22673626.38 22673626.44 22673626.50 0.2667 0.2189 *

Neptune 57366-07-10 04:05 G 22673751.62 22673751.67 22673751.72 0.0088 0.0085

Neptune 57366-10-06 06:58 G 22673839.71 22673839.79 22673839.91 0.0088 0.0075

Neptune 57367-01-02 10:34 G 22673927.82 22673927.94 22673928.08 0.0088 0.0063

Neptune 57367-03-31 13:55 G 22674015.94 22674016.08 22674016.25 0.0088 0.0053

Neptune 57367-06-27 17:31 G 22674104.07 22674104.23 22674104.40 0.0088 0.0042

Neptune 57367-09-23 21:07 G 22674192.20 22674192.38 22674192.55 0.0088 0.0031

Neptune 57367-12-21 00:14 G 22674280.33 22674280.51 22674280.70 0.0088 0.0020

Neptune 57368-03-18 03:50 G 22674368.47 22674368.66 22674368.85 0.0088 0.0009

Mars 57368-05-03 22:19 G 22674415.32 22674415.43 22674415.53 0.1696 0.0770

Neptune 57368-06-14 07:12 G 22674456.61 22674456.80 22674456.99 0.0088 0.0002

Neptune 57368-09-10 10:34 G 22674544.76 22674544.94 22674545.13 0.0088 0.0013

Neptune 57368-12-07 13:55 G 22674632.90 22674633.08 22674633.27 0.0088 0.0024

Uranus 57369-03-04 10:48 G 22674719.90 22674719.95 22674720.03 0.0140 0.0131

Neptune 57369-03-05 17:17 G 22674721.06 22674721.22 22674721.41 0.0088 0.0036

Uranus 57369-05-31 18:43 G 22674808.15 22674808.28 22674808.41 0.0140 0.0101

Neptune 57369-06-01 20:53 G 22674809.21 22674809.37 22674809.54 0.0088 0.0046

Uranus 57369-08-28 02:24 G 22674896.44 22674896.60 22674896.76 0.0140 0.0071

Neptune 57369-08-29 00:14 G 22674897.38 22674897.51 22674897.67 0.0088 0.0058

Uranus 57369-11-24 09:50 G 22674984.74 22674984.91 22674985.10 0.0139 0.0042

Neptune 57369-11-25 03:50 G 22674985.55 22674985.66 22674985.79 0.0088 0.0069

Jupiter 57370-02-18 06:14 G 22675070.64 22675070.76 22675070.89 0.0496 0.0345

Uranus 57370-02-20 17:46 G 22675073.05 22675073.24 22675073.43 0.0139 0.0011

Neptune 57370-02-21 07:26 G 22675073.73 22675073.81 22675073.89 0.0088 0.0080

Jupiter 57370-05-19 13:12 G 22675161.00 22675161.05 22675161.11 0.0498 0.0473

Uranus 57370-05-20 01:12 G 22675161.37 22675161.55 22675161.75 0.0139 0.0019

Uranus 57370-08-16 08:53 G 22675249.70 22675249.87 22675250.06 0.0139 0.0049

Uranus 57370-11-12 16:34 G 22675338.04 22675338.19 22675338.36 0.0139 0.0079

Uranus 57371-02-09 00:14 G 22675426.41 22675426.51 22675426.64 0.0139 0.0109

Saturn 57371-07-28 18:14 G 22675596.18 22675596.26 22675596.35 0.0270 0.0237

Saturn 57371-10-25 14:24 G 22675684.92 22675685.10 22675685.28 0.0269 0.0056

Saturn 57372-01-22 10:34 G 22675773.79 22675773.94 22675774.11 0.0269 0.0128

Moon 57373-02-27 20:53 G 22676176.27 22676176.37 22676176.47 0.2682 0.1224

Earth 57373-02-27 20:53 G 22676176.27 22676176.37 22676176.47 0.2675 0.1167 *

Moon 57375-09-01 20:24 G 22677092.25 22677092.35 22677092.46 0.2664 0.1841

Earth 57375-09-01 20:53 G 22677092.25 22677092.37 22677092.49 0.2657 0.1693 *

Jupiter 57375-10-24 14:10 G 22677144.97 22677145.09 22677145.21 0.0532 0.0199

Jupiter 57376-01-21 21:07 G 22677234.33 22677234.38 22677234.43 0.0529 0.0480

Mars 57377-09-24 08:10 G 22677845.71 22677845.84 22677845.96 0.1690 0.0175

Jupiter 57382-03-07 10:34 G 22679470.79 22679470.94 22679471.10 0.0497 0.0262

Pluto 57385-04-17 05:46 G 22680607.65 22680607.74 22680607.88 0.0077 0.0059

Pluto 57385-07-14 08:24 G 22680695.69 22680695.85 22680696.01 0.0077 0.0038

Pluto 57385-10-10 10:34 G 22680783.76 22680783.94 22680784.12 0.0077 0.0016

Pluto 57386-01-06 12:43 G 22680871.85 22680872.03 22680872.21 0.0077 0.0005

Earth 57386-03-02 14:53 G 22680927.01 22680927.12 22680927.23 0.2674 0.0083

Moon 57386-03-02 15:22 G 22680927.03 22680927.14 22680927.26 0.2679 0.0198 *

Pluto 57386-04-04 14:38 G 22680959.95 22680960.11 22680960.29 0.0077 0.0026

Pluto 57386-07-01 16:48 G 22681048.07 22681048.20 22681048.35 0.0077 0.0047

Venus 57386-08-27 16:34 G 22681105.11 22681105.19 22681105.26 0.3683 0.2446

Pluto 57386-09-27 18:58 G 22681136.22 22681136.29 22681136.38 0.0077 0.0068

Saturn 57386-11-20 18:14 G 22681190.17 22681190.26 22681190.36 0.0290 0.0201

Mars 57387-02-14 17:46 G 22681276.15 22681276.24 22681276.34 0.1685 0.1091

Saturn 57387-02-17 06:43 G 22681278.65 22681278.78 22681278.92 0.0291 0.0035

Saturn 57387-05-16 19:12 G 22681367.18 22681367.30 22681367.42 0.0291 0.0132

Jupiter 57387-08-12 18:00 G 22681455.16 22681455.25 22681455.34 0.0532 0.0373

Jupiter 57387-11-10 01:12 G 22681544.45 22681544.55 22681544.65 0.0530 0.0316

Earth 57388-09-04 02:38 G 22681843.46 22681843.61 22681843.76 0.2658 0.0593

Moon 57388-09-04 03:22 G 22681843.50 22681843.64 22681843.79 0.2664 0.0766 *

Mars 57389-11-13 19:55 G 22682279.18 22682279.33 22682279.48 0.1833 0.0229

Venus 57392-03-12 07:55 G 22683128.72 22683128.83 22683128.93 0.3683 0.0131

Jupiter 57393-12-24 07:12 G 22683780.62 22683780.80 22683780.98 0.0497 0.0042

Venus 57397-09-25 23:02 G 22685152.39 22685152.46 22685152.54 0.3682 0.2446

Earth 57399-03-05 08:53 G 22685677.77 22685677.87 22685677.97 0.2673 0.1212

Moon 57399-03-05 09:36 G 22685677.80 22685677.90 22685678.00 0.2673 0.1233 *

Mars 57399-04-05 19:12 G 22685709.23 22685709.30 22685709.37 0.1840 0.1640

Jupiter 57399-08-29 05:31 G 22685854.61 22685854.73 22685854.86 0.0530 0.0157

Saturn 57401-03-14 15:07 G 22686416.96 22686417.13 22686417.30 0.0269 0.0097

Saturn 57401-06-11 11:17 G 22686505.80 22686505.97 22686506.14 0.0269 0.0085

Jupiter 57405-10-13 05:17 G 22688090.55 22688090.72 22688090.89 0.0496 0.0159

Moon 57406-02-27 07:12 G 22688227.74 22688227.80 22688227.86 0.2682 0.2227

Earth 57406-02-27 07:41 G 22688227.75 22688227.82 22688227.88 0.2676 0.2157 *

Mars 57407-11-03 22:05 G 22688842.32 22688842.42 22688842.53 0.1696 0.0902

Jupiter 57411-06-18 09:22 G 22690164.76 22690164.89 22690165.02 0.0531 0.0021

Earth 57412-03-08 02:53 G 22690428.57 22690428.62 22690428.67 0.2672 0.2367

Moon 57412-03-08 03:22 G 22690428.60 22690428.64 22690428.68 0.2667 0.2466 *

Uranus 57412-08-30 23:31 G 22690604.44 22690604.48 22690604.52 0.0138 0.0131

Uranus 57412-11-27 02:53 G 22690692.55 22690692.62 22690692.70 0.0138 0.0111

Uranus 57413-02-23 06:14 G 22690780.67 22690780.76 22690780.87 0.0138 0.0090

Uranus 57413-05-22 09:36 G 22690868.79 22690868.90 22690869.02 0.0138 0.0070

Uranus 57413-08-18 12:58 G 22690956.92 22690957.04 22690957.17 0.0139 0.0049

Uranus 57413-11-14 16:34 G 22691045.06 22691045.19 22691045.32 0.0139 0.0029

Uranus 57414-02-10 19:55 G 22691133.19 22691133.33 22691133.46 0.0139 0.0009

Uranus 57414-05-09 23:02 G 22691221.33 22691221.46 22691221.60 0.0139 0.0013

Uranus 57414-08-06 02:24 G 22691309.47 22691309.60 22691309.73 0.0139 0.0033

Uranus 57414-11-02 05:46 G 22691397.62 22691397.74 22691397.86 0.0139 0.0054

Uranus 57415-01-29 09:07 G 22691485.77 22691485.88 22691485.99 0.0139 0.0074

Uranus 57415-04-27 12:29 G 22691573.92 22691574.02 22691574.11 0.0139 0.0094

Uranus 57415-07-24 15:36 G 22691662.08 22691662.15 22691662.23 0.0139 0.0115

Uranus 57415-10-20 18:58 G 22691750.27 22691750.29 22691750.32 0.0139 0.0135

Saturn 57416-04-09 19:41 G 22691922.26 22691922.32 22691922.39 0.0290 0.0256

Saturn 57416-07-07 08:24 G 22692010.72 22692010.85 22692010.98 0.0291 0.0088

Saturn 57416-10-03 20:38 G 22692099.24 22692099.36 22692099.49 0.0291 0.0080

Saturn 57416-12-31 09:07 G 22692187.81 22692187.88 22692187.95 0.0292 0.0245

Mars 57417-03-26 08:10 G 22692272.72 22692272.84 22692272.96 0.1690 0.0018

Jupiter 57417-08-01 03:22 G 22692400.52 22692400.64 22692400.77 0.0496 0.0356

Jupiter 57417-10-30 10:19 G 22692490.87 22692490.93 22692491.00 0.0498 0.0462

Moon 57419-03-02 01:55 G 22692978.47 22692978.58 22692978.68 0.2682 0.0898

Earth 57419-03-02 01:41 G 22692978.47 22692978.57 22692978.68 0.2675 0.0941 *

Moon 57421-09-03 03:07 G 22693894.50 22693894.63 22693894.77 0.2663 0.1209

Earth 57421-09-03 03:22 G 22693894.51 22693894.64 22693894.77 0.2657 0.1281 *

Venus 57422-08-26 12:00 G 22694251.84 22694252.00 22694252.15 0.3688 0.0560

Jupiter 57423-04-06 12:58 G 22694474.92 22694475.04 22694475.17 0.0531 0.0192

Jupiter 57423-07-04 19:55 G 22694564.28 22694564.33 22694564.38 0.0528 0.0487

Mars 57426-08-16 17:46 G 22695703.14 22695703.24 22695703.35 0.1685 0.0950

Mars 57429-05-15 20:24 G 22696706.20 22696706.35 22696706.50 0.1833 0.0442

Jupiter 57429-08-18 08:10 G 22696800.69 22696800.84 22696801.00 0.0497 0.0259

Saturn 57430-08-01 15:07 G 22697148.99 22697149.13 22697149.29 0.0270 0.0143

Saturn 57430-10-29 11:31 G 22697237.80 22697237.98 22697238.16 0.0269 0.0040

Saturn 57431-01-26 07:41 G 22697326.73 22697326.82 22697326.93 0.0269 0.0223

Earth 57432-03-03 19:41 G 22697729.21 22697729.32 22697729.44 0.2674 0.0279

Moon 57432-03-03 20:24 G 22697729.24 22697729.35 22697729.46 0.2679 0.0267 *

Earth 57434-09-06 09:07 G 22698645.74 22698645.88 22698646.02 0.2658 0.1017

Moon 57434-09-06 10:05 G 22698645.78 22698645.92 22698646.06 0.2664 0.1044 *

Jupiter 57435-01-23 16:05 G 22698785.08 22698785.17 22698785.26 0.0532 0.0382

Jupiter 57435-04-22 23:17 G 22698874.37 22698874.47 22698874.57 0.0529 0.0307

Mars 57438-10-05 19:55 G 22700136.23 22700136.33 22700136.43 0.1840 0.1400

Jupiter 57441-06-06 05:46 G 22701110.56 22701110.74 22701110.92 0.0497 0.0050

Venus 57443-04-04 13:55 G 22701777.99 22701778.08 22701778.17 0.3683 0.1522

Earth 57445-03-06 13:41 G 22702479.98 22702480.07 22702480.17 0.2673 0.1435

Moon 57445-03-06 14:24 G 22702480.02 22702480.10 22702480.19 0.2671 0.1583 *

Saturn 57445-08-27 23:31 G 22702654.45 22702654.48 22702654.51 0.0290 0.0282

Saturn 57445-11-24 12:00 G 22702742.88 22702743.00 22702743.13 0.0290 0.0115

Saturn 57446-02-21 00:43 G 22702831.39 22702831.53 22702831.66 0.0291 0.0054

Saturn 57446-05-20 12:58 G 22702919.95 22702920.04 22702920.13 0.0291 0.0219

Neptune 57447-02-08 07:55 G 22703183.79 22703183.83 22703183.87 0.0089 0.0084

Jupiter 57447-02-09 03:22 G 22703184.51 22703184.64 22703184.76 0.0530 0.0141

Mars 57447-05-04 22:19 G 22703269.34 22703269.43 22703269.53 0.1696 0.1048

Neptune 57447-05-07 09:22 G 22703271.82 22703271.89 22703271.96 0.0089 0.0076

Neptune 57447-08-03 10:34 G 22703359.86 22703359.94 22703360.04 0.0089 0.0069

Neptune 57447-10-30 12:00 G 22703447.91 22703448.00 22703448.11 0.0089 0.0060

Neptune 57448-01-26 13:26 G 22703535.96 22703536.06 22703536.18 0.0089 0.0052

Neptune 57448-04-23 14:53 G 22703624.01 22703624.12 22703624.24 0.0089 0.0044

Neptune 57448-07-20 16:19 G 22703712.06 22703712.18 22703712.31 0.0089 0.0036

Neptune 57448-10-16 17:46 G 22703800.11 22703800.24 22703800.37 0.0089 0.0028

Venus 57448-10-18 05:17 G 22703801.62 22703801.72 22703801.81 0.3683 0.0943

Neptune 57449-01-12 19:12 G 22703888.17 22703888.30 22703888.43 0.0089 0.0020

Neptune 57449-04-10 20:38 G 22703976.22 22703976.36 22703976.49 0.0089 0.0012

Neptune 57449-07-07 22:05 G 22704064.28 22704064.42 22704064.55 0.0089 0.0005

Neptune 57449-10-03 23:17 G 22704152.34 22704152.47 22704152.61 0.0089 0.0004

Neptune 57449-12-31 00:43 G 22704240.40 22704240.53 22704240.66 0.0089 0.0011

Neptune 57450-03-29 02:10 G 22704328.46 22704328.59 22704328.72 0.0089 0.0019

Neptune 57450-06-25 03:22 G 22704416.52 22704416.64 22704416.77 0.0089 0.0027

Neptune 57450-09-21 04:48 G 22704504.58 22704504.70 22704504.82 0.0089 0.0035

Neptune 57450-12-18 06:00 G 22704592.64 22704592.75 22704592.87 0.0089 0.0043

Neptune 57451-03-16 07:12 G 22704680.70 22704680.80 22704680.92 0.0089 0.0051

Neptune 57451-06-12 08:53 G 22704768.77 22704768.87 22704768.97 0.0089 0.0058

Neptune 57451-09-08 10:05 G 22704856.84 22704856.92 22704857.01 0.0089 0.0066

Neptune 57451-12-05 11:17 G 22704944.91 22704944.97 22704945.05 0.0089 0.0074

Moon 57452-02-28 12:00 G 22705029.93 22705030.00 22705030.08 0.2682 0.1990

Earth 57452-02-28 12:29 G 22705029.94 22705030.02 22705030.10 0.2676 0.1923 *

Neptune 57452-03-02 12:58 G 22705032.99 22705033.04 22705033.09 0.0089 0.0081

Jupiter 57453-03-25 02:24 G 22705420.44 22705420.60 22705420.77 0.0496 0.0169

Uranus 57453-03-25 18:29 G 22705421.19 22705421.27 22705421.37 0.0140 0.0122

Uranus 57453-06-22 02:10 G 22705509.45 22705509.59 22705509.74 0.0140 0.0092

Uranus 57453-09-18 09:36 G 22705597.74 22705597.90 22705598.08 0.0140 0.0063

Uranus 57453-12-15 17:31 G 22705686.05 22705686.23 22705686.42 0.0139 0.0032

Uranus 57454-03-14 01:12 G 22705774.36 22705774.55 22705774.74 0.0139 0.0002

Venus 57454-05-03 20:24 G 22705825.31 22705825.35 22705825.39 0.3682 0.3347

Uranus 57454-06-10 08:53 G 22705862.68 22705862.87 22705863.06 0.0139 0.0028

Uranus 57454-09-06 16:34 G 22705951.02 22705951.19 22705951.36 0.0139 0.0058

Uranus 57454-12-04 00:00 G 22706039.36 22706039.50 22706039.66 0.0139 0.0088

Uranus 57455-03-02 07:41 G 22706127.74 22706127.82 22706127.94 0.0139 0.0118

Mars 57456-09-24 08:10 G 22706699.72 22706699.84 22706699.96 0.1690 0.0123

Earth 57458-03-09 07:41 G 22707230.79 22707230.82 22707230.84 0.2671 0.2585

Moon 57458-03-09 08:10 G 22707230.81 22707230.84 22707230.86 0.2667 0.2586 *

Jupiter 57458-11-28 07:26 G 22707494.69 22707494.81 22707494.94 0.0531 0.0028

Saturn 57459-12-19 16:19 G 22707881.05 22707881.18 22707881.32 0.0270 0.0180

Saturn 57460-03-17 12:29 G 22707969.83 22707970.02 22707970.20 0.0269 0.0006

Saturn 57460-06-14 08:38 G 22708058.73 22708058.86 22708058.99 0.0269 0.0184

Jupiter 57465-01-11 00:43 G 22709730.41 22709730.53 22709730.65 0.0495 0.0366

Earth 57465-03-02 06:43 G 22709780.67 22709780.78 22709780.88 0.2675 0.0721

Moon 57465-03-02 06:58 G 22709780.68 22709780.79 22709780.89 0.2682 0.0696 *

Jupiter 57465-04-11 07:26 G 22709820.73 22709820.81 22709820.88 0.0498 0.0450

Mars 57466-02-14 18:00 G 22710130.14 22710130.25 22710130.35 0.1685 0.0808

Earth 57467-09-04 09:50 G 22710696.76 22710696.91 22710697.05 0.2657 0.0871

Moon 57467-09-04 10:05 G 22710696.78 22710696.92 22710697.06 0.2663 0.0939 *

Mars 57468-11-13 21:07 G 22711133.23 22711133.38 22711133.52 0.1833 0.0689

Jupiter 57470-09-16 11:31 G 22711804.86 22711804.98 22711805.10 0.0531 0.0194

Jupiter 57470-12-14 18:14 G 22711894.22 22711894.26 22711894.31 0.0529 0.0486

Saturn 57475-04-13 13:12 G 22713474.95 22713475.05 22713475.17 0.0291 0.0172

Saturn 57475-07-11 01:55 G 22713563.44 22713563.58 22713563.71 0.0291 0.0005

Saturn 57475-10-07 14:10 G 22713651.98 22713652.09 22713652.20 0.0292 0.0163

Jupiter 57477-01-28 05:17 G 22714130.56 22714130.72 22714130.88 0.0498 0.0247

Earth 57478-03-05 00:43 G 22714531.42 22714531.53 22714531.64 0.2674 0.0482

Moon 57478-03-05 01:12 G 22714531.45 22714531.55 22714531.66 0.2677 0.0600 *

Mars 57478-04-05 20:24 G 22714563.23 22714563.35 22714563.46 0.1840 0.1185

Venus 57479-04-02 14:10 G 22714925.03 22714925.09 22714925.14 0.3688 0.3441

Earth 57480-09-06 15:36 G 22715448.02 22715448.15 22715448.28 0.2659 0.1444

Moon 57480-09-06 16:48 G 22715448.08 22715448.20 22715448.32 0.2664 0.1663 *

Jupiter 57482-07-05 14:53 G 22716115.03 22716115.12 22716115.22 0.0532 0.0372

Jupiter 57482-10-02 22:05 G 22716204.32 22716204.42 22716204.53 0.0529 0.0317

Mars 57486-11-02 22:19 G 22717696.35 22717696.43 22717696.52 0.1696 0.1187

Jupiter 57488-11-16 03:22 G 22718440.46 22718440.64 22718440.82 0.0497 0.0049

Saturn 57489-05-07 16:05 G 22718613.08 22718613.17 22718613.27 0.0270 0.0229

Saturn 57489-08-04 12:14 G 22718701.83 22718702.01 22718702.19 0.0269 0.0049

Saturn 57489-11-01 08:24 G 22718790.69 22718790.85 22718791.01 0.0269 0.0134

Earth 57491-03-07 18:43 G 22719282.19 22719282.28 22719282.36 0.2673 0.1653

Moon 57491-03-07 19:26 G 22719282.22 22719282.31 22719282.39 0.2671 0.1672 *

Venus 57494-04-25 19:55 G 22720427.28 22720427.33 22720427.38 0.3683 0.3072

Jupiter 57494-07-22 01:26 G 22720514.44 22720514.56 22720514.69 0.0530 0.0134

Mars 57496-03-25 08:10 G 22721126.72 22721126.84 22721126.96 0.1690 0.0264

Uranus 57496-09-20 06:43 G 22721305.74 22721305.78 22721305.85 0.0138 0.0125

Uranus 57496-12-17 10:19 G 22721393.85 22721393.93 22721394.02 0.0138 0.0104

Uranus 57497-03-15 13:55 G 22721481.97 22721482.08 22721482.18 0.0138 0.0084

Uranus 57497-06-11 17:02 G 22721570.10 22721570.21 22721570.34 0.0138 0.0064

Uranus 57497-09-07 20:38 G 22721658.23 22721658.36 22721658.48 0.0139 0.0043

Uranus 57497-12-04 23:46 G 22721746.36 22721746.49 22721746.63 0.0139 0.0023

Moon 57498-02-28 17:02 G 22721832.13 22721832.21 22721832.30 0.2682 0.1697

Earth 57498-02-28 17:17 G 22721832.14 22721832.22 22721832.31 0.2676 0.1692 *

Uranus 57498-03-03 03:22 G 22721834.50 22721834.64 22721834.77 0.0139 0.0005

Uranus 57498-05-30 06:29 G 22721922.64 22721922.77 22721922.91 0.0139 0.0019

Uranus 57498-08-26 09:50 G 22722010.79 22722010.91 22722011.04 0.0139 0.0039

Uranus 57498-11-22 13:12 G 22722098.93 22722099.05 22722099.17 0.0139 0.0060

Uranus 57499-02-18 16:34 G 22722187.08 22722187.19 22722187.30 0.0139 0.0080

Uranus 57499-05-17 19:55 G 22722275.24 22722275.33 22722275.42 0.0139 0.0101

Uranus 57499-08-13 23:02 G 22722363.40 22722363.46 22722363.53 0.0139 0.0121

Venus 57499-11-09 11:17 G 22722450.87 22722450.97 22722451.07 0.3683 0.0601

Jupiter 57500-09-05 01:12 G 22722750.38 22722750.55 22722750.72 0.0496 0.0157

Saturn 57504-08-31 16:48 G 22724207.11 22724207.20 22724207.30 0.0290 0.0201

Saturn 57504-11-28 05:17 G 22724295.59 22724295.72 22724295.86 0.0291 0.0035

Saturn 57505-02-24 17:46 G 22724384.12 22724384.24 22724384.36 0.0291 0.0134

Venus 57505-05-26 02:24 G 22724474.52 22724474.60 22724474.69 0.3682 0.1843

Mars 57505-08-16 18:00 G 22724557.14 22724557.25 22724557.36 0.1685 0.0662

Jupiter 57506-05-11 05:17 G 22724824.59 22724824.72 22724824.85 0.0531 0.0039

Mars 57508-05-15 21:22 G 22725560.25 22725560.39 22725560.52 0.1833 0.0885

Earth 57511-03-04 11:31 G 22726582.87 22726582.98 22726583.09 0.2675 0.0484

Moon 57511-03-04 11:46 G 22726582.88 22726582.99 22726583.10 0.2682 0.0454 *

Jupiter 57512-06-23 22:05 G 22727060.31 22727060.42 22727060.54 0.0495 0.0373

Jupiter 57512-09-22 04:34 G 22727150.62 22727150.69 22727150.78 0.0498 0.0442

Earth 57513-09-05 16:19 G 22727499.03 22727499.18 22727499.33 0.2657 0.0465

Moon 57513-09-05 16:48 G 22727499.05 22727499.20 22727499.35 0.2664 0.0335 *

Mars 57515-01-07 03:36 G 22727987.62 22727987.65 22727987.69 0.1680 0.1592

Mars 57517-10-05 20:38 G 22728990.23 22728990.36 22728990.49 0.1840 0.0977

Jupiter 57518-02-27 09:36 G 22729134.78 22729134.90 22729135.02 0.0532 0.0200

Jupiter 57518-05-27 16:34 G 22729224.14 22729224.19 22729224.24 0.0529 0.0481

Saturn 57518-09-25 17:17 G 22729345.20 22729345.22 22729345.26 0.0270 0.0265

Saturn 57518-12-23 13:26 G 22729433.89 22729434.06 22729434.23 0.0269 0.0085

Saturn 57519-03-22 09:22 G 22729522.73 22729522.89 22729523.07 0.0269 0.0097

Earth 57524-03-06 05:31 G 22731333.62 22731333.73 22731333.84 0.2674 0.0703

Moon 57524-03-06 06:14 G 22731333.65 22731333.76 22731333.87 0.2675 0.0768 *

Jupiter 57524-07-11 02:38 G 22731460.45 22731460.61 22731460.77 0.0497 0.0237

Mars 57526-05-04 22:19 G 22732123.36 22732123.43 22732123.51 0.1696 0.1322

Earth 57526-09-08 22:05 G 22732250.31 22732250.42 22732250.53 0.2659 0.1861

Moon 57526-09-08 23:17 G 22732250.37 22732250.47 22732250.58 0.2663 0.1892 *

Jupiter 57529-12-16 13:26 G 22733444.97 22733445.06 22733445.15 0.0532 0.0372

Jupiter 57530-03-15 20:38 G 22733534.26 22733534.36 22733534.47 0.0529 0.0317

Venus 57530-04-24 06:43 G 22733573.66 22733573.78 22733573.90 0.3688 0.2314

Neptune 57531-04-08 02:10 G 22733922.52 22733922.59 22733922.67 0.0088 0.0081

Neptune 57531-07-05 05:17 G 22734010.62 22734010.72 22734010.85 0.0088 0.0070

Neptune 57531-10-01 08:38 G 22734098.73 22734098.86 22734099.01 0.0088 0.0060

Neptune 57531-12-28 12:14 G 22734186.85 22734187.01 22734187.17 0.0088 0.0049

Neptune 57532-03-25 15:36 G 22734274.98 22734275.15 22734275.32 0.0088 0.0038

Neptune 57532-06-21 18:43 G 22734363.11 22734363.28 22734363.47 0.0088 0.0028

Neptune 57532-09-17 22:19 G 22734451.25 22734451.43 22734451.62 0.0088 0.0016

Neptune 57532-12-15 01:55 G 22734539.39 22734539.58 22734539.77 0.0088 0.0005

Neptune 57533-03-13 05:17 G 22734627.53 22734627.72 22734627.91 0.0088 0.0006

Neptune 57533-06-09 08:38 G 22734715.67 22734715.86 22734716.05 0.0088 0.0017

Neptune 57533-09-05 11:46 G 22734803.82 22734803.99 22734804.19 0.0088 0.0029

Neptune 57533-12-02 15:07 G 22734891.98 22734892.13 22734892.32 0.0088 0.0040

Saturn 57534-01-18 18:00 G 22734939.19 22734939.25 22734939.30 0.0290 0.0260

Neptune 57534-02-28 18:29 G 22734980.13 22734980.27 22734980.45 0.0088 0.0051

Saturn 57534-04-17 06:29 G 22735027.64 22735027.77 22735027.90 0.0291 0.0092

Neptune 57534-05-27 22:05 G 22735068.30 22735068.42 22735068.57 0.0088 0.0061

Saturn 57534-07-14 18:58 G 22735116.16 22735116.29 22735116.42 0.0291 0.0075

Neptune 57534-08-24 01:26 G 22735156.47 22735156.56 22735156.69 0.0088 0.0073

Saturn 57534-10-11 07:12 G 22735204.73 22735204.80 22735204.88 0.0292 0.0241

Neptune 57534-11-20 05:02 G 22735244.66 22735244.71 22735244.79 0.0088 0.0084

Mars 57535-09-25 08:10 G 22735553.73 22735553.84 22735553.96 0.1690 0.0407

Jupiter 57536-04-29 00:43 G 22735770.35 22735770.53 22735770.71 0.0497 0.0037

Earth 57537-03-08 23:31 G 22736084.40 22736084.48 22736084.56 0.2672 0.1868

Moon 57537-03-09 00:14 G 22736084.43 22736084.51 22736084.58 0.2670 0.2005 *

Uranus 57537-04-16 02:24 G 22736122.49 22736122.60 22736122.72 0.0140 0.0112

Uranus 57537-07-13 10:05 G 22736210.77 22736210.92 22736211.07 0.0140 0.0082

Uranus 57537-10-09 17:31 G 22736299.06 22736299.23 22736299.41 0.0140 0.0053

Uranus 57538-01-06 01:12 G 22736387.37 22736387.55 22736387.74 0.0139 0.0023

Uranus 57538-04-04 08:53 G 22736475.68 22736475.87 22736476.06 0.0139 0.0008

Uranus 57538-07-01 16:34 G 22736564.01 22736564.19 22736564.38 0.0139 0.0038

Uranus 57538-09-28 00:14 G 22736652.35 22736652.51 22736652.68 0.0139 0.0068

Uranus 57538-12-25 07:55 G 22736740.70 22736740.83 22736740.97 0.0139 0.0098

Uranus 57539-03-23 15:50 G 22736829.08 22736829.16 22736829.23 0.0139 0.0127

Jupiter 57542-01-02 00:29 G 22737844.40 22737844.52 22737844.65 0.0530 0.0147

Moon 57544-03-01 22:05 G 22738634.33 22738634.42 22738634.51 0.2683 0.1531

Earth 57544-03-01 22:19 G 22738634.33 22738634.43 22738634.52 0.2676 0.1465 *

Pluto 57544-05-26 23:31 G 22738720.43 22738720.48 22738720.56 0.0067 0.0059

Pluto 57544-08-23 00:00 G 22738808.42 22738808.50 22738808.62 0.0067 0.0048

Pluto 57544-11-19 00:43 G 22738896.43 22738896.53 22738896.66 0.0067 0.0037

Mars 57545-02-14 18:00 G 22738984.14 22738984.25 22738984.37 0.1685 0.0519

Pluto 57545-02-15 01:26 G 22738984.44 22738984.56 22738984.70 0.0067 0.0026

Pluto 57545-05-14 02:10 G 22739072.46 22739072.59 22739072.73 0.0067 0.0015

Pluto 57545-08-10 02:53 G 22739160.48 22739160.62 22739160.76 0.0067 0.0004

Pluto 57545-11-06 03:22 G 22739248.51 22739248.64 22739248.79 0.0067 0.0007

Pluto 57546-02-02 04:05 G 22739336.54 22739336.67 22739336.81 0.0067 0.0018

Pluto 57546-05-01 04:34 G 22739424.57 22739424.69 22739424.82 0.0068 0.0029

Pluto 57546-07-28 05:17 G 22739512.61 22739512.72 22739512.84 0.0068 0.0040

Moon 57546-09-03 16:34 G 22739550.13 22739550.19 22739550.26 0.2662 0.2358

Earth 57546-09-03 17:02 G 22739550.14 22739550.21 22739550.29 0.2656 0.2305 *

Pluto 57546-10-24 05:46 G 22739600.66 22739600.74 22739600.84 0.0068 0.0051

Pluto 57547-01-20 06:29 G 22739688.72 22739688.77 22739688.83 0.0068 0.0062

Mars 57547-11-14 21:50 G 22739987.29 22739987.41 22739987.53 0.1833 0.1114

Jupiter 57548-02-15 23:02 G 22740080.29 22740080.46 22740080.63 0.0496 0.0158

Saturn 57548-05-11 12:29 G 22740165.87 22740166.02 22740166.18 0.0269 0.0140

Saturn 57548-08-08 08:38 G 22740254.68 22740254.86 22740255.04 0.0269 0.0042

Saturn 57548-11-05 04:48 G 22740343.61 22740343.70 22740343.80 0.0269 0.0225

Venus 57550-12-01 17:17 G 22741100.14 22741100.22 22741100.30 0.3683 0.2154

Jupiter 57553-10-21 03:50 G 22742154.53 22742154.66 22742154.79 0.0531 0.0038

Mars 57554-07-08 03:50 G 22742414.60 22742414.66 22742414.72 0.1680 0.1445

Venus 57556-06-16 08:38 G 22743123.76 22743123.86 22743123.96 0.3683 0.0323

Earth 57557-03-04 16:19 G 22743385.07 22743385.18 22743385.29 0.2675 0.0262

Moon 57557-03-04 16:48 G 22743385.09 22743385.20 22743385.31 0.2681 0.0201 *

Mars 57557-04-05 21:07 G 22743417.24 22743417.38 22743417.52 0.1840 0.0750

Earth 57559-09-06 22:34 G 22744301.29 22744301.44 22744301.60 0.2658 0.0092

Moon 57559-09-06 23:17 G 22744301.32 22744301.47 22744301.62 0.2664 0.0054 *

Jupiter 57559-12-04 21:07 G 22744390.26 22744390.38 22744390.50 0.0495 0.0357

Jupiter 57560-03-04 03:36 G 22744480.59 22744480.65 22744480.72 0.0498 0.0459

Venus 57561-12-30 23:46 G 22745147.42 22745147.49 22745147.56 0.3682 0.2730

Saturn 57563-09-04 09:36 G 22745759.78 22745759.90 22745760.02 0.0291 0.0126

Saturn 57563-12-01 22:05 G 22745848.29 22745848.42 22745848.56 0.0291 0.0042

Saturn 57564-02-28 10:34 G 22745936.85 22745936.94 22745937.03 0.0292 0.0208

Jupiter 57565-08-09 07:41 G 22746464.70 22746464.82 22746464.94 0.0532 0.0211

Mars 57565-11-02 22:19 G 22746550.38 22746550.43 22746550.49 0.1696 0.1464

Jupiter 57565-11-06 14:38 G 22746554.05 22746554.11 22746554.16 0.0529 0.0471

Earth 57570-03-07 10:19 G 22748135.83 22748135.93 22748136.04 0.2674 0.0933

Moon 57570-03-07 11:17 G 22748135.86 22748135.97 22748136.07 0.2674 0.1023 *

Jupiter 57571-12-22 00:14 G 22748790.35 22748790.51 22748790.67 0.0497 0.0232

Earth 57572-09-09 04:34 G 22749052.62 22749052.69 22749052.77 0.2659 0.2288

Moon 57572-09-09 06:00 G 22749052.71 22749052.75 22749052.80 0.2662 0.2539 *

Mars 57575-03-26 08:10 G 22749980.73 22749980.84 22749980.96 0.1690 0.0545

Moon 57577-02-28 08:24 G 22750685.82 22750685.85 22750685.87 0.2681 0.2600

Earth 57577-02-28 08:53 G 22750685.83 22750685.87 22750685.91 0.2677 0.2456 *

Jupiter 57577-05-28 11:46 G 22750774.90 22750774.99 22750775.08 0.0533 0.0377

Jupiter 57577-08-25 18:58 G 22750864.19 22750864.29 22750864.40 0.0530 0.0314

Saturn 57577-09-28 13:41 G 22750897.94 22750898.07 22750898.21 0.0270 0.0175

Saturn 57577-12-26 09:50 G 22750986.73 22750986.91 22750987.09 0.0269 0.0006

Saturn 57578-03-25 06:00 G 22751075.62 22751075.75 22751075.88 0.0269 0.0188

Uranus 57580-10-11 14:10 G 22752007.03 22752007.09 22752007.16 0.0138 0.0120

Uranus 57581-01-07 17:31 G 22752095.14 22752095.23 22752095.33 0.0138 0.0099

Uranus 57581-04-05 20:53 G 22752183.27 22752183.37 22752183.48 0.0138 0.0079

Uranus 57581-07-03 00:14 G 22752271.39 22752271.51 22752271.64 0.0139 0.0059

Uranus 57581-09-29 03:50 G 22752359.53 22752359.66 22752359.78 0.0139 0.0038

Uranus 57581-12-26 06:58 G 22752447.66 22752447.79 22752447.93 0.0139 0.0018

Uranus 57582-03-24 10:19 G 22752535.80 22752535.93 22752536.07 0.0139 0.0005

Uranus 57582-06-20 13:41 G 22752623.94 22752624.07 22752624.20 0.0139 0.0024

Uranus 57582-09-16 17:02 G 22752712.09 22752712.21 22752712.34 0.0139 0.0044

Uranus 57582-12-13 20:10 G 22752800.23 22752800.34 22752800.47 0.0139 0.0066

Earth 57583-03-10 04:19 G 22752886.61 22752886.68 22752886.75 0.2672 0.2089

Moon 57583-03-10 04:48 G 22752886.64 22752886.70 22752886.77 0.2669 0.2118 *

Uranus 57583-03-11 23:31 G 22752888.38 22752888.48 22752888.59 0.0139 0.0085

Uranus 57583-06-08 02:53 G 22752976.54 22752976.62 22752976.71 0.0139 0.0106

Uranus 57583-09-04 06:00 G 22753064.71 22753064.75 22753064.82 0.0139 0.0127

Jupiter 57583-10-09 22:05 G 22753100.24 22753100.42 22753100.61 0.0496 0.0034

Mars 57584-08-15 18:00 G 22753411.13 22753411.25 22753411.37 0.1685 0.0383

Venus 57586-11-29 08:53 G 22754246.71 22754246.87 22754247.02 0.3688 0.0537

Mars 57587-05-15 22:19 G 22754414.33 22754414.43 22754414.54 0.1833 0.1349

Jupiter 57589-06-13 23:17 G 22755174.34 22755174.47 22755174.59 0.0530 0.0150

Moon 57590-03-03 03:07 G 22755436.53 22755436.63 22755436.73 0.2683 0.1173

Earth 57590-03-03 03:07 G 22755436.53 22755436.63 22755436.73 0.2676 0.1234 *

Moon 57592-09-03 23:31 G 22756352.37 22756352.48 22756352.58 0.2663 0.1892

Earth 57592-09-03 23:31 G 22756352.38 22756352.48 22756352.59 0.2656 0.1900 *

Saturn 57593-01-21 10:34 G 22756491.84 22756491.94 22756492.04 0.0290 0.0187

Saturn 57593-04-19 23:02 G 22756580.33 22756580.46 22756580.60 0.0291 0.0020

Saturn 57593-07-17 11:31 G 22756668.86 22756668.98 22756669.09 0.0291 0.0147

Mars 57594-01-06 03:50 G 22756841.59 22756841.66 22756841.74 0.1680 0.1298

Jupiter 57595-07-28 20:24 G 22757410.18 22757410.35 22757410.52 0.0496 0.0165

Mars 57596-10-04 21:36 G 22757844.26 22757844.40 22757844.55 0.1840 0.0531

Jupiter 57601-04-02 03:07 G 22759484.50 22759484.63 22759484.76 0.0531 0.0027

Earth 57603-03-05 21:07 G 22760187.27 22760187.38 22760187.50 0.2674 0.0116

Moon 57603-03-05 21:50 G 22760187.29 22760187.41 22760187.52 0.2679 0.0114 *

Mars 57605-05-03 22:34 G 22760977.40 22760977.44 22760977.47 0.1696 0.1608

Earth 57605-09-07 05:02 G 22761103.56 22761103.71 22761103.87 0.2658 0.0366

Moon 57605-09-07 05:46 G 22761103.59 22761103.74 22761103.89 0.2664 0.0477 *

Saturn 57607-02-15 12:29 G 22761629.93 22761630.02 22761630.10 0.0270 0.0235

Saturn 57607-05-15 08:24 G 22761718.67 22761718.85 22761719.03 0.0269 0.0055

Jupiter 57607-05-16 19:12 G 22761720.17 22761720.30 22761720.42 0.0496 0.0356

Venus 57607-07-08 14:38 G 22761773.01 22761773.11 22761773.20 0.3683 0.1235

Saturn 57607-08-12 04:34 G 22761807.53 22761807.69 22761807.85 0.0269 0.0127

Jupiter 57607-08-15 01:41 G 22761810.51 22761810.57 22761810.64 0.0498 0.0461

Neptune 57611-11-06 07:26 G 22763354.76 22763354.81 22763354.86 0.0089 0.0082

Neptune 57612-02-02 08:53 G 22763442.79 22763442.87 22763442.94 0.0089 0.0074

Neptune 57612-04-30 10:05 G 22763530.84 22763530.92 22763531.02 0.0089 0.0066

Neptune 57612-07-27 11:31 G 22763618.88 22763618.98 22763619.09 0.0089 0.0058

Neptune 57612-10-23 12:58 G 22763706.93 22763707.04 22763707.16 0.0089 0.0049

Jupiter 57613-01-19 06:14 G 22763794.64 22763794.76 22763794.88 0.0532 0.0207

Neptune 57613-01-19 14:24 G 22763794.98 22763795.10 22763795.22 0.0089 0.0041

Venus 57613-01-21 05:46 G 22763796.65 22763796.74 22763796.84 0.3682 0.1217

Neptune 57613-04-17 15:50 G 22763883.04 22763883.16 22763883.28 0.0089 0.0033

Jupiter 57613-04-18 13:12 G 22763884.00 22763884.05 22763884.10 0.0529 0.0474

Neptune 57613-07-14 17:17 G 22763971.09 22763971.22 22763971.35 0.0089 0.0025

Neptune 57613-10-10 18:29 G 22764059.15 22764059.27 22764059.41 0.0089 0.0018

Neptune 57614-01-06 19:55 G 22764147.20 22764147.33 22764147.47 0.0089 0.0010

Neptune 57614-04-04 21:22 G 22764235.26 22764235.39 22764235.53 0.0089 0.0002

Neptune 57614-07-01 22:48 G 22764323.32 22764323.45 22764323.58 0.0089 0.0006

Mars 57614-09-24 08:24 G 22764407.74 22764407.85 22764407.96 0.1690 0.0684

Neptune 57614-09-28 00:14 G 22764411.38 22764411.51 22764411.64 0.0089 0.0014

Neptune 57614-12-25 01:26 G 22764499.44 22764499.56 22764499.69 0.0089 0.0022

Neptune 57615-03-23 02:53 G 22764587.50 22764587.62 22764587.75 0.0089 0.0030

Neptune 57615-06-19 04:05 G 22764675.56 22764675.67 22764675.80 0.0089 0.0038

Neptune 57615-09-15 05:31 G 22764763.62 22764763.73 22764763.85 0.0089 0.0046

Neptune 57615-12-12 06:58 G 22764851.69 22764851.79 22764851.90 0.0089 0.0053

Earth 57616-03-07 15:22 G 22764938.04 22764938.14 22764938.24 0.2673 0.1151

Moon 57616-03-07 16:05 G 22764938.07 22764938.17 22764938.27 0.2674 0.1252 *

Neptune 57616-03-09 08:10 G 22764939.75 22764939.84 22764939.94 0.0089 0.0061

Neptune 57616-06-05 09:22 G 22765027.82 22765027.89 22765027.99 0.0089 0.0069

Neptune 57616-09-01 10:48 G 22765115.89 22765115.95 22765116.03 0.0089 0.0077

Neptune 57616-11-28 12:14 G 22765203.98 22765204.01 22765204.06 0.0089 0.0084

Venus 57618-08-06 21:07 G 22765820.37 22765820.38 22765820.39 0.3682 0.3635

Jupiter 57619-06-02 23:17 G 22766120.32 22766120.47 22766120.63 0.0497 0.0254

Uranus 57621-02-07 02:53 G 22766735.57 22766735.62 22766735.70 0.0140 0.0130

Uranus 57621-05-06 10:48 G 22766823.82 22766823.95 22766824.08 0.0140 0.0100

Uranus 57621-08-02 18:14 G 22766912.10 22766912.26 22766912.43 0.0140 0.0071

Uranus 57621-10-30 01:55 G 22767000.40 22767000.58 22767000.76 0.0140 0.0041

Uranus 57622-01-26 09:36 G 22767088.71 22767088.90 22767089.09 0.0139 0.0011

Uranus 57622-04-24 17:02 G 22767177.03 22767177.21 22767177.41 0.0139 0.0020

Saturn 57622-06-10 13:12 G 22767223.97 22767224.05 22767224.13 0.0290 0.0226

Uranus 57622-07-22 00:43 G 22767265.36 22767265.53 22767265.72 0.0139 0.0049

Saturn 57622-09-07 01:55 G 22767312.44 22767312.58 22767312.71 0.0291 0.0059

Uranus 57622-10-18 08:24 G 22767353.70 22767353.85 22767354.02 0.0139 0.0079

Saturn 57622-12-04 14:24 G 22767400.97 22767401.10 22767401.22 0.0291 0.0109

Uranus 57623-01-14 16:05 G 22767442.06 22767442.17 22767442.30 0.0139 0.0109

Moon 57623-03-01 13:12 G 22767487.99 22767488.05 22767488.11 0.2682 0.2231

Earth 57623-03-01 13:41 G 22767488.01 22767488.07 22767488.13 0.2677 0.2225 *

Saturn 57623-03-03 02:38 G 22767489.57 22767489.61 22767489.65 0.0292 0.0274

Uranus 57623-04-13 00:00 G 22767530.50 22767530.50 22767530.51 0.0139 0.0139

Mars 57624-02-14 18:14 G 22767838.14 22767838.26 22767838.38 0.1685 0.0238

Jupiter 57624-11-07 09:50 G 22768104.83 22768104.91 22768105.00 0.0532 0.0382

Jupiter 57625-02-04 17:17 G 22768194.12 22768194.22 22768194.32 0.0530 0.0309

Mars 57626-11-13 22:48 G 22768841.37 22768841.45 22768841.53 0.1833 0.1553

Earth 57629-03-10 09:07 G 22769688.83 22769688.88 22769688.93 0.2672 0.2308

Moon 57629-03-10 09:36 G 22769688.85 22769688.90 22769688.95 0.2667 0.2372 *

Jupiter 57631-03-21 20:10 G 22770430.16 22770430.34 22770430.52 0.0496 0.0032

Pluto 57631-06-11 17:46 G 22770512.15 22770512.24 22770512.36 0.0077 0.0062

Pluto 57631-09-07 19:55 G 22770600.19 22770600.33 22770600.50 0.0077 0.0041

Pluto 57631-12-04 22:19 G 22770688.26 22770688.43 22770688.61 0.0077 0.0019

Pluto 57632-03-02 00:43 G 22770776.35 22770776.53 22770776.71 0.0077 0.0002

Pluto 57632-05-29 02:53 G 22770864.45 22770864.62 22770864.79 0.0077 0.0023

Pluto 57632-08-25 04:34 G 22770952.56 22770952.69 22770952.86 0.0077 0.0045

Pluto 57632-11-21 06:43 G 22771040.71 22771040.78 22771040.89 0.0077 0.0066

Mars 57633-07-07 03:50 G 22771268.57 22771268.66 22771268.75 0.1680 0.1163

Moon 57636-03-03 07:55 G 22772238.73 22772238.83 22772238.94 0.2683 0.1073

Earth 57636-03-03 07:55 G 22772238.73 22772238.83 22772238.94 0.2676 0.1006 *

Mars 57636-04-04 22:05 G 22772271.27 22772271.42 22772271.57 0.1840 0.0325

Saturn 57636-10-01 09:22 G 22772450.72 22772450.89 22772451.07 0.0270 0.0091

Jupiter 57636-11-23 21:36 G 22772504.28 22772504.40 22772504.52 0.0531 0.0149

Saturn 57636-12-29 05:31 G 22772539.56 22772539.73 22772539.90 0.0269 0.0090

Earth 57638-09-05 06:00 G 22773154.62 22773154.75 22773154.87 0.2656 0.1500

Moon 57638-09-05 06:00 G 22773154.63 22773154.75 22773154.87 0.2663 0.1563 *

Jupiter 57643-01-07 18:29 G 22774740.10 22774740.27 22774740.43 0.0496 0.0166

Venus 57643-07-06 10:48 G 22774919.88 22774919.95 22774920.01 0.3688 0.3341

Jupiter 57648-09-12 01:41 G 22776814.44 22776814.57 22776814.70 0.0531 0.0023

Earth 57649-03-06 02:10 G 22776989.48 22776989.59 22776989.70 0.2674 0.0196

Moon 57649-03-06 02:38 G 22776989.50 22776989.61 22776989.72 0.2678 0.0334 *

Earth 57651-09-08 11:31 G 22777905.84 22777905.98 22777906.13 0.2658 0.0780

Moon 57651-09-08 12:29 G 22777905.88 22777906.02 22777906.17 0.2663 0.0875 *

Saturn 57651-10-28 13:55 G 22777956.07 22777956.08 22777956.10 0.0290 0.0288

Saturn 57652-01-25 02:38 G 22778044.49 22778044.61 22778044.73 0.0290 0.0121

Saturn 57652-04-22 15:07 G 22778133.00 22778133.13 22778133.26 0.0291 0.0046

Saturn 57652-07-20 03:22 G 22778221.56 22778221.64 22778221.73 0.0291 0.0212

Mars 57654-03-25 08:24 G 22778834.74 22778834.85 22778834.96 0.1690 0.0827

Jupiter 57654-10-26 16:48 G 22779050.08 22779050.20 22779050.32 0.0495 0.0359

Jupiter 57655-01-24 23:31 G 22779140.41 22779140.48 22779140.55 0.0498 0.0456

Venus 57658-07-29 20:38 G 22780422.29 22780422.36 22780422.42 0.3683 0.2791

Jupiter 57660-07-01 05:46 G 22781124.61 22781124.74 22781124.86 0.0532 0.0189

Jupiter 57660-09-28 12:29 G 22781213.98 22781214.02 22781214.07 0.0529 0.0493

Earth 57662-03-08 20:10 G 22781740.24 22781740.34 22781740.43 0.2673 0.1370

Moon 57662-03-08 20:53 G 22781740.27 22781740.37 22781740.46 0.2673 0.1430 *

Mars 57663-08-15 18:14 G 22782265.14 22782265.26 22782265.38 0.1685 0.0098

Venus 57664-02-12 12:00 G 22782445.90 22782446.00 22782446.10 0.3683 0.0328

Uranus 57664-08-04 18:00 G 22782620.23 22782620.25 22782620.29 0.0138 0.0134

Uranus 57664-10-31 21:36 G 22782708.33 22782708.40 22782708.48 0.0138 0.0113

Uranus 57665-01-28 00:43 G 22782796.44 22782796.53 22782796.64 0.0138 0.0094

Uranus 57665-04-26 04:19 G 22782884.57 22782884.68 22782884.80 0.0138 0.0073

Uranus 57665-07-23 07:41 G 22782972.70 22782972.82 22782972.95 0.0139 0.0052

Uranus 57665-10-19 11:02 G 22783060.83 22783060.96 22783061.09 0.0139 0.0032

Uranus 57666-01-15 14:24 G 22783148.97 22783149.10 22783149.24 0.0139 0.0011

Saturn 57666-02-18 07:12 G 22783182.66 22783182.80 22783182.96 0.0270 0.0158

Uranus 57666-04-13 17:46 G 22783237.11 22783237.24 22783237.37 0.0139 0.0009

Mars 57666-05-14 23:17 G 22783268.43 22783268.47 22783268.51 0.1833 0.1768

Saturn 57666-05-18 03:22 G 22783271.46 22783271.64 22783271.82 0.0269 0.0024

Uranus 57666-07-10 21:07 G 22783325.25 22783325.38 22783325.51 0.0139 0.0030

Saturn 57666-08-14 23:31 G 22783360.37 22783360.48 22783360.60 0.0269 0.0206

Uranus 57666-10-07 00:29 G 22783413.40 22783413.52 22783413.64 0.0139 0.0050

Jupiter 57666-11-12 21:36 G 22783450.25 22783450.40 22783450.56 0.0497 0.0258

Uranus 57667-01-03 03:36 G 22783501.54 22783501.65 22783501.77 0.0139 0.0071

Uranus 57667-04-01 06:58 G 22783589.70 22783589.79 22783589.90 0.0139 0.0091

Uranus 57667-06-28 10:19 G 22783677.86 22783677.93 22783678.01 0.0139 0.0112

Uranus 57667-09-24 13:41 G 22783766.03 22783766.07 22783766.11 0.0139 0.0132

Moon 57669-03-01 18:14 G 22784290.20 22784290.26 22784290.33 0.2683 0.2077

Earth 57669-03-01 18:43 G 22784290.20 22784290.28 22784290.35 0.2677 0.1991 *

Venus 57669-08-28 03:07 G 22784469.55 22784469.63 22784469.72 0.3682 0.2121

Jupiter 57672-04-19 08:53 G 22785434.78 22785434.87 22785434.96 0.0532 0.0374

Jupiter 57672-07-17 16:05 G 22785524.07 22785524.17 22785524.28 0.0529 0.0317

Mars 57673-01-05 04:05 G 22785695.57 22785695.67 22785695.77 0.1680 0.1013

Earth 57675-03-11 13:55 G 22786491.05 22786491.08 22786491.12 0.2672 0.2521

Moon 57675-03-11 14:24 G 22786491.07 22786491.10 22786491.13 0.2666 0.2567 *

Mars 57675-10-04 22:34 G 22786698.29 22786698.44 22786698.60 0.1840 0.0100

Jupiter 57678-08-31 19:41 G 22787760.14 22787760.32 22787760.50 0.0497 0.0056

Saturn 57681-06-13 04:48 G 22788776.59 22788776.70 22788776.82 0.0290 0.0165

Saturn 57681-09-09 17:31 G 22788865.09 22788865.23 22788865.36 0.0291 0.0006

Saturn 57681-12-07 05:46 G 22788953.64 22788953.74 22788953.85 0.0291 0.0169

Moon 57682-03-04 12:58 G 22789040.93 22789041.04 22789041.15 0.2682 0.0704

Earth 57682-03-04 12:58 G 22789040.93 22789041.04 22789041.14 0.2675 0.0782 *

Jupiter 57684-05-05 20:10 G 22789834.21 22789834.34 22789834.46 0.0530 0.0149

Moon 57684-09-05 12:29 G 22789956.88 22789957.02 22789957.16 0.2664 0.1007

Earth 57684-09-05 12:29 G 22789956.88 22789957.02 22789957.16 0.2657 0.1093 *

Jupiter 57690-06-19 16:34 G 22792070.02 22792070.19 22792070.36 0.0496 0.0162

Mars 57693-09-23 08:24 G 22793261.75 22793261.85 22793261.95 0.1690 0.0958

Venus 57694-07-27 03:22 G 22793568.52 22793568.64 22793568.76 0.3688 0.2368

Earth 57695-03-07 06:58 G 22793791.68 22793791.79 22793791.90 0.2674 0.0417

Moon 57695-03-07 07:41 G 22793791.71 22793791.82 22793791.93 0.2677 0.0432 *

Saturn 57695-07-08 08:10 G 22793914.73 22793914.84 22793914.98 0.0270 0.0195

Saturn 57695-10-05 04:19 G 22794003.50 22794003.68 22794003.86 0.0270 0.0014

Neptune 57695-10-06 20:38 G 22794005.36 22794005.36 22794005.37 0.0088 0.0088

Saturn 57696-01-02 00:29 G 22794092.38 22794092.52 22794092.66 0.0269 0.0168

Neptune 57696-01-02 23:46 G 22794093.42 22794093.49 22794093.59 0.0088 0.0078

Jupiter 57696-02-23 00:14 G 22794144.38 22794144.51 22794144.64 0.0532 0.0021

Neptune 57696-03-31 02:53 G 22794181.52 22794181.62 22794181.76 0.0088 0.0068

Neptune 57696-06-27 06:29 G 22794269.64 22794269.77 22794269.93 0.0088 0.0056

Neptune 57696-09-23 09:50 G 22794357.76 22794357.91 22794358.08 0.0088 0.0046

Neptune 57696-12-20 13:26 G 22794445.89 22794446.06 22794446.23 0.0088 0.0035

Neptune 57697-03-18 16:34 G 22794534.02 22794534.19 22794534.38 0.0088 0.0024

Neptune 57697-06-14 19:55 G 22794622.15 22794622.33 22794622.53 0.0088 0.0014

Earth 57697-09-08 18:00 G 22794708.11 22794708.25 22794708.39 0.2658 0.1189

Moon 57697-09-08 19:12 G 22794708.17 22794708.30 22794708.43 0.2662 0.1284 *

Neptune 57697-09-10 23:31 G 22794710.29 22794710.48 22794710.67 0.0088 0.0002

Neptune 57697-12-08 02:53 G 22794798.43 22794798.62 22794798.81 0.0088 0.0009

Neptune 57698-03-06 06:14 G 22794886.58 22794886.76 22794886.95 0.0088 0.0020

Neptune 57698-06-02 09:36 G 22794974.73 22794974.90 22794975.09 0.0088 0.0031

Neptune 57698-08-29 13:12 G 22795062.88 22795063.05 22795063.22 0.0088 0.0042

Neptune 57698-11-25 16:19 G 22795151.04 22795151.18 22795151.35 0.0088 0.0053

Neptune 57699-02-21 19:41 G 22795239.21 22795239.32 22795239.47 0.0088 0.0064

Neptune 57699-05-20 23:02 G 22795327.38 22795327.46 22795327.58 0.0088 0.0076

Neptune 57699-08-17 02:38 G 22795415.59 22795415.61 22795415.67 0.0088 0.0087

Jupiter 57702-04-08 14:53 G 22796380.00 22796380.12 22796380.25 0.0495 0.0355

Jupiter 57702-07-07 21:22 G 22796470.33 22796470.39 22796470.46 0.0498 0.0458

Mars 57703-02-14 18:14 G 22796692.14 22796692.26 22796692.38 0.1685 0.0047

Uranus 57705-02-28 11:02 G 22797436.87 22797436.96 22797437.07 0.0140 0.0119

Uranus 57705-05-27 18:43 G 22797525.14 22797525.28 22797525.43 0.0140 0.0089

Uranus 57705-08-24 02:10 G 22797613.43 22797613.59 22797613.77 0.0140 0.0060

Uranus 57705-11-20 10:05 G 22797701.73 22797701.92 22797702.10 0.0140 0.0030

Uranus 57706-02-16 17:46 G 22797790.05 22797790.24 22797790.43 0.0140 0.0003

Uranus 57706-05-16 01:12 G 22797878.37 22797878.55 22797878.74 0.0139 0.0030

Uranus 57706-08-12 08:53 G 22797966.70 22797966.87 22797967.05 0.0139 0.0060

Uranus 57706-11-08 16:19 G 22798055.05 22798055.18 22798055.34 0.0139 0.0091

Uranus 57707-02-05 00:00 G 22798143.42 22798143.50 22798143.61 0.0139 0.0120

Jupiter 57707-12-13 04:34 G 22798454.56 22798454.69 22798454.81 0.0532 0.0182

Earth 57708-03-10 00:58 G 22798542.45 22798542.54 22798542.63 0.2673 0.1585

Moon 57708-03-10 01:41 G 22798542.48 22798542.57 22798542.65 0.2671 0.1711 *

Jupiter 57708-03-11 11:31 G 22798543.94 22798543.98 22798544.02 0.0529 0.0501

Saturn 57710-11-01 05:31 G 22799508.65 22799508.73 22799508.82 0.0290 0.0228

Saturn 57711-01-28 18:14 G 22799597.13 22799597.26 22799597.39 0.0290 0.0061

Saturn 57711-04-27 06:43 G 22799685.65 22799685.78 22799685.90 0.0291 0.0105

Saturn 57711-07-24 18:58 G 22799774.25 22799774.29 22799774.34 0.0291 0.0270

Mars 57712-07-07 04:05 G 22800122.57 22800122.67 22800122.78 0.1680 0.0869

Jupiter 57714-04-25 19:26 G 22800780.16 22800780.31 22800780.47 0.0497 0.0258

Moon 57715-03-03 23:17 G 22801092.39 22801092.47 22801092.55 0.2683 0.1773

Earth 57715-03-03 23:31 G 22801092.40 22801092.48 22801092.56 0.2677 0.1763 *

Venus 57715-03-06 18:00 G 22801095.16 22801095.25 22801095.34 0.3683 0.1862

Mars 57715-04-05 23:02 G 22801125.31 22801125.46 22801125.62 0.1840 0.0126

Jupiter 57719-10-01 08:10 G 22802764.75 22802764.84 22802764.94 0.0532 0.0354

Jupiter 57719-12-29 15:36 G 22802854.05 22802854.15 22802854.25 0.0530 0.0337

Venus 57720-09-19 09:22 G 22803118.79 22803118.89 22803118.99 0.3682 0.0608

Mars 57724-08-25 22:34 G 22804555.39 22804555.44 22804555.49 0.1846 0.1730

Saturn 57724-11-25 05:46 G 22804646.71 22804646.74 22804646.78 0.0270 0.0264

Saturn 57725-02-22 01:41 G 22804735.40 22804735.57 22804735.75 0.0269 0.0085

Saturn 57725-05-21 21:50 G 22804824.24 22804824.41 22804824.58 0.0269 0.0097

Jupiter 57726-02-11 18:00 G 22805090.07 22805090.25 22805090.43 0.0497 0.0063

Venus 57726-04-05 00:29 G 22805142.47 22805142.52 22805142.58 0.3682 0.3033

Earth 57728-03-05 17:46 G 22805843.13 22805843.24 22805843.35 0.2675 0.0549

Moon 57728-03-05 18:00 G 22805843.15 22805843.25 22805843.36 0.2681 0.0564 *

Earth 57730-09-07 18:43 G 22806759.14 22806759.28 22806759.43 0.2657 0.0687

Moon 57730-09-07 18:58 G 22806759.15 22806759.29 22806759.44 0.2663 0.0754 *

Jupiter 57731-10-17 19:12 G 22807164.17 22807164.30 22807164.42 0.0530 0.0160

Mars 57733-03-25 08:24 G 22807688.76 22807688.85 22807688.94 0.1690 0.1103

Jupiter 57737-11-30 16:05 G 22809400.00 22809400.17 22809400.35 0.0496 0.0137

Saturn 57740-03-20 07:26 G 22810240.78 22810240.81 22810240.85 0.0290 0.0277

Saturn 57740-06-16 20:10 G 22810329.22 22810329.34 22810329.47 0.0290 0.0109

Saturn 57740-09-13 08:38 G 22810417.73 22810417.86 22810417.99 0.0291 0.0058

Saturn 57740-12-10 21:07 G 22810506.29 22810506.38 22810506.46 0.0291 0.0223

Earth 57741-03-08 11:46 G 22810593.89 22810593.99 22810594.10 0.2674 0.0646

Moon 57741-03-08 12:29 G 22810593.92 22810594.02 22810594.13 0.2677 0.0792 *

Mars 57742-08-15 18:14 G 22811119.14 22811119.26 22811119.38 0.1685 0.0191

Jupiter 57743-08-05 23:02 G 22811474.33 22811474.46 22811474.59 0.0531 0.0011

Earth 57743-09-11 00:29 G 22811510.40 22811510.52 22811510.65 0.2658 0.1615

Moon 57743-09-11 01:55 G 22811510.47 22811510.58 22811510.69 0.2662 0.1836 *

Uranus 57748-08-26 01:12 G 22813321.51 22813321.55 22813321.60 0.0138 0.0129

Uranus 57748-11-22 04:34 G 22813409.62 22813409.69 22813409.78 0.0138 0.0109

Uranus 57749-02-18 07:55 G 22813497.74 22813497.83 22813497.94 0.0138 0.0088

Uranus 57749-05-17 11:31 G 22813585.86 22813585.98 22813586.09 0.0138 0.0068

Uranus 57749-08-13 14:38 G 22813673.99 22813674.11 22813674.24 0.0139 0.0048

Jupiter 57749-09-18 13:26 G 22813709.94 22813710.06 22813710.19 0.0495 0.0347

Uranus 57749-11-09 18:14 G 22813762.13 22813762.26 22813762.39 0.0139 0.0027

Jupiter 57749-12-17 19:55 G 22813800.27 22813800.33 22813800.39 0.0497 0.0466

Uranus 57750-02-05 21:36 G 22813850.27 22813850.40 22813850.53 0.0139 0.0006

Uranus 57750-05-05 00:58 G 22813938.41 22813938.54 22813938.67 0.0139 0.0014

Uranus 57750-08-01 04:05 G 22814026.55 22814026.67 22814026.81 0.0139 0.0035

Uranus 57750-10-28 07:26 G 22814114.69 22814114.81 22814114.94 0.0139 0.0055

Uranus 57751-01-24 10:48 G 22814202.84 22814202.95 22814203.06 0.0139 0.0076

Venus 57751-03-04 05:31 G 22814241.57 22814241.73 22814241.88 0.3688 0.0444

Uranus 57751-04-22 14:10 G 22814291.00 22814291.09 22814291.19 0.0139 0.0096

Uranus 57751-07-19 17:17 G 22814379.16 22814379.22 22814379.30 0.0139 0.0117

Uranus 57751-10-15 20:38 G 22814467.35 22814467.36 22814467.39 0.0139 0.0137

Mars 57752-01-06 04:05 G 22814549.56 22814549.67 22814549.78 0.1680 0.0734

Earth 57754-03-11 05:46 G 22815344.66 22815344.74 22815344.82 0.2673 0.1807

Moon 57754-03-11 06:29 G 22815344.69 22815344.77 22815344.85 0.2669 0.1817 *

Saturn 57754-07-12 02:24 G 22815467.44 22815467.60 22815467.76 0.0270 0.0124

Mars 57754-10-04 23:31 G 22815552.33 22815552.48 22815552.63 0.1840 0.0338

Saturn 57754-10-08 22:34 G 22815556.26 22815556.44 22815556.62 0.0270 0.0057

Saturn 57755-01-05 18:43 G 22815645.20 22815645.28 22815645.36 0.0269 0.0240

Jupiter 57755-05-25 03:07 G 22815784.50 22815784.63 22815784.75 0.0532 0.0180

Jupiter 57755-08-22 10:05 G 22815873.89 22815873.92 22815873.96 0.0530 0.0505

Moon 57761-03-04 04:19 G 22817894.59 22817894.68 22817894.77 0.2683 0.1575

Earth 57761-03-04 04:19 G 22817894.59 22817894.68 22817894.78 0.2676 0.1533 *

Mars 57761-05-28 13:55 G 22817980.06 22817980.08 22817980.10 0.1676 0.1647

Jupiter 57761-10-05 18:00 G 22818110.10 22818110.25 22818110.40 0.0497 0.0264

Earth 57763-09-05 19:55 G 22818810.28 22818810.33 22818810.38 0.2655 0.2495

Moon 57763-09-05 19:26 G 22818810.30 22818810.31 22818810.33 0.2662 0.2638 *

Mars 57764-02-24 23:17 G 22818982.38 22818982.47 22818982.56 0.1846 0.1493

Venus 57766-03-28 00:00 G 22819744.46 22819744.50 22819744.53 0.3683 0.3425

Jupiter 57767-03-13 07:12 G 22820094.70 22820094.80 22820094.90 0.0533 0.0346

Jupiter 57767-06-10 14:24 G 22820184.01 22820184.10 22820184.20 0.0530 0.0346

Saturn 57769-11-03 21:07 G 22821061.27 22821061.38 22821061.49 0.0290 0.0170

Saturn 57770-01-31 09:36 G 22821149.77 22821149.90 22821150.03 0.0290 0.0004

Saturn 57770-04-29 21:50 G 22821238.31 22821238.41 22821238.53 0.0291 0.0162

Venus 57771-10-11 15:22 G 22821768.04 22821768.14 22821768.24 0.3683 0.0937

Mars 57772-09-23 08:24 G 22822115.77 22822115.85 22822115.94 0.1690 0.1244

Jupiter 57773-07-24 16:05 G 22822420.00 22822420.17 22822420.35 0.0496 0.0067

Earth 57774-03-06 22:34 G 22822645.33 22822645.44 22822645.55 0.2675 0.0329

Moon 57774-03-06 23:02 G 22822645.35 22822645.46 22822645.57 0.2680 0.0243 *

Neptune 57776-05-07 05:02 G 22823437.70 22823437.71 22823437.75 0.0089 0.0087

Neptune 57776-08-03 06:29 G 22823525.72 22823525.77 22823525.84 0.0089 0.0079

Earth 57776-09-08 01:12 G 22823561.40 22823561.55 22823561.70 0.2657 0.0277

Moon 57776-09-08 01:55 G 22823561.43 22823561.58 22823561.73 0.2663 0.0133 *

Neptune 57776-10-30 07:55 G 22823613.76 22823613.83 22823613.92 0.0089 0.0071

Neptune 57777-01-26 09:22 G 22823701.81 22823701.89 22823702.00 0.0089 0.0063

Neptune 57777-04-24 10:48 G 22823789.85 22823789.95 22823790.06 0.0089 0.0055

Venus 57777-04-26 06:43 G 22823791.68 22823791.78 22823791.87 0.3682 0.1517

Neptune 57777-07-21 12:14 G 22823877.90 22823878.01 22823878.13 0.0089 0.0047

Neptune 57777-10-17 13:41 G 22823965.96 22823966.07 22823966.20 0.0089 0.0039

Neptune 57778-01-13 15:07 G 22824054.01 22824054.13 22824054.26 0.0089 0.0031

Neptune 57778-04-11 16:34 G 22824142.06 22824142.19 22824142.32 0.0089 0.0023

Neptune 57778-07-08 18:00 G 22824230.12 22824230.25 22824230.38 0.0089 0.0015

Neptune 57778-10-04 19:26 G 22824318.18 22824318.31 22824318.44 0.0089 0.0007

Jupiter 57778-12-30 11:02 G 22824404.93 22824404.96 22824404.99 0.0533 0.0518

Neptune 57778-12-31 20:53 G 22824406.23 22824406.37 22824406.50 0.0089 0.0002

Jupiter 57779-03-29 18:43 G 22824494.16 22824494.28 22824494.40 0.0530 0.0182

Neptune 57779-03-29 22:19 G 22824494.29 22824494.43 22824494.56 0.0089 0.0009 *

Neptune 57779-06-25 23:31 G 22824582.35 22824582.48 22824582.61 0.0089 0.0017

Neptune 57779-09-22 00:43 G 22824670.41 22824670.53 22824670.67 0.0089 0.0025

Neptune 57779-12-19 02:24 G 22824758.47 22824758.60 22824758.72 0.0089 0.0032

Neptune 57780-03-16 03:36 G 22824846.54 22824846.65 22824846.77 0.0089 0.0040

Neptune 57780-06-12 05:02 G 22824934.60 22824934.71 22824934.82 0.0089 0.0048

Neptune 57780-09-08 06:14 G 22825022.66 22825022.76 22825022.87 0.0089 0.0056

Neptune 57780-12-05 07:26 G 22825110.73 22825110.81 22825110.92 0.0089 0.0064

Neptune 57781-03-03 09:07 G 22825198.80 22825198.88 22825198.96 0.0089 0.0071

Neptune 57781-05-30 10:19 G 22825286.88 22825286.93 22825287.00 0.0089 0.0079

Neptune 57781-08-26 11:31 G 22825374.97 22825374.98 22825375.02 0.0089 0.0087

Mars 57782-02-13 18:29 G 22825546.14 22825546.27 22825546.39 0.1685 0.0335

Saturn 57783-11-28 23:31 G 22826199.36 22826199.48 22826199.60 0.0270 0.0198

Saturn 57784-02-25 19:26 G 22826288.13 22826288.31 22826288.50 0.0270 0.0018

Saturn 57784-05-24 15:36 G 22826377.01 22826377.15 22826377.30 0.0269 0.0166

Jupiter 57785-05-12 14:53 G 22826729.94 22826730.12 22826730.29 0.0496 0.0127

Earth 57787-03-09 16:48 G 22827396.09 22827396.20 22827396.30 0.2674 0.0868

Moon 57787-03-09 17:17 G 22827396.12 22827396.22 22827396.33 0.2676 0.0887 *

Uranus 57788-12-22 11:17 G 22828049.96 22828049.97 22828050.01 0.0140 0.0138

Uranus 57789-03-20 19:12 G 22828138.18 22828138.30 22828138.42 0.0140 0.0108

Uranus 57789-06-17 02:38 G 22828226.46 22828226.61 22828226.77 0.0140 0.0079

Earth 57789-09-11 06:58 G 22828312.70 22828312.79 22828312.89 0.2658 0.2037

Moon 57789-09-11 08:38 G 22828312.76 22828312.86 22828312.95 0.2662 0.2114 *

Uranus 57789-09-13 10:19 G 22828314.75 22828314.93 22828315.11 0.0140 0.0049

Uranus 57789-12-10 17:46 G 22828403.06 22828403.24 22828403.43 0.0140 0.0020

Uranus 57790-03-09 01:26 G 22828491.37 22828491.56 22828491.75 0.0140 0.0011

Uranus 57790-06-05 09:07 G 22828579.70 22828579.88 22828580.07 0.0139 0.0041

Pluto 57790-07-20 12:43 G 22828625.00 22828625.03 22828625.09 0.0067 0.0063

Uranus 57790-09-01 16:48 G 22828668.04 22828668.20 22828668.37 0.0139 0.0071

Pluto 57790-10-16 13:26 G 22828712.98 22828713.06 22828713.16 0.0067 0.0052

Uranus 57790-11-29 00:29 G 22828756.39 22828756.52 22828756.66 0.0139 0.0101

Pluto 57791-01-12 14:10 G 22828800.99 22828801.09 22828801.21 0.0067 0.0041

Jupiter 57791-01-15 22:05 G 22828804.29 22828804.42 22828804.55 0.0531 0.0013

Uranus 57791-02-25 08:10 G 22828844.78 22828844.84 22828844.91 0.0139 0.0131

Pluto 57791-04-10 14:53 G 22828889.00 22828889.12 22828889.25 0.0067 0.0030

Mars 57791-07-07 04:05 G 22828976.56 22828976.67 22828976.79 0.1680 0.0592

Pluto 57791-07-07 15:36 G 22828977.01 22828977.15 22828977.28 0.0067 0.0019

Pluto 57791-10-03 16:19 G 22829065.04 22829065.18 22829065.32 0.0067 0.0009

Pluto 57791-12-30 16:48 G 22829153.06 22829153.20 22829153.34 0.0067 0.0003

Pluto 57792-03-27 17:31 G 22829241.09 22829241.23 22829241.36 0.0067 0.0014

Pluto 57792-06-23 18:00 G 22829329.12 22829329.25 22829329.38 0.0067 0.0025

Pluto 57792-09-19 18:29 G 22829417.16 22829417.27 22829417.40 0.0068 0.0036

Pluto 57792-12-16 19:12 G 22829505.21 22829505.30 22829505.40 0.0068 0.0047

Pluto 57793-03-14 19:55 G 22829593.26 22829593.33 22829593.40 0.0068 0.0058

Moon 57794-03-02 14:24 G 22829946.07 22829946.10 22829946.14 0.2683 0.2547

Earth 57794-03-02 15:07 G 22829946.09 22829946.13 22829946.16 0.2677 0.2525 *

Mars 57794-04-05 00:00 G 22829979.35 22829979.50 22829979.65 0.1840 0.0562

Jupiter 57797-02-28 13:12 G 22831039.92 22831040.05 22831040.19 0.0495 0.0321

Jupiter 57797-05-29 19:41 G 22831130.31 22831130.32 22831130.34 0.0498 0.0495

Saturn 57799-03-23 22:34 G 22831793.36 22831793.44 22831793.53 0.0290 0.0223

Saturn 57799-06-20 11:02 G 22831881.83 22831881.96 22831882.10 0.0290 0.0058

Saturn 57799-09-16 23:31 G 22831970.36 22831970.48 22831970.61 0.0291 0.0110

Saturn 57799-12-14 11:46 G 22832058.96 22832058.99 22832059.04 0.0291 0.0275

Earth 57800-03-12 10:34 G 22832146.87 22832146.94 22832147.01 0.2673 0.2025

Moon 57800-03-12 11:17 G 22832146.90 22832146.97 22832147.03 0.2668 0.2159 *

Mars 57800-11-27 13:55 G 22832407.03 22832407.08 22832407.13 0.1675 0.1506

Jupiter 57802-11-05 01:55 G 22833114.46 22833114.58 22833114.71 0.0532 0.0170

Jupiter 57803-02-02 08:53 G 22833203.85 22833203.87 22833203.90 0.0529 0.0513

Mars 57803-08-26 23:17 G 22833409.37 22833409.47 22833409.58 0.1846 0.1308

Moon 57807-03-06 09:22 G 22834696.79 22834696.89 22834696.98 0.2683 0.1326

Earth 57807-03-06 09:22 G 22834696.79 22834696.89 22834696.99 0.2676 0.1299 *

Venus 57807-10-10 07:41 G 22834914.75 22834914.82 22834914.88 0.3688 0.3304

Jupiter 57809-03-18 16:34 G 22835440.04 22835440.19 22835440.34 0.0497 0.0275

Moon 57809-09-07 01:55 G 22835612.49 22835612.58 22835612.67 0.2662 0.2077

Earth 57809-09-07 02:10 G 22835612.50 22835612.59 22835612.69 0.2656 0.2106 *

Mars 57812-03-25 08:24 G 22836542.79 22836542.85 22836542.92 0.1690 0.1377

Saturn 57813-04-18 00:00 G 22836931.43 22836931.50 22836931.59 0.0271 0.0239

Saturn 57813-07-15 20:10 G 22837020.16 22837020.34 22837020.52 0.0270 0.0058

Saturn 57813-10-12 16:05 G 22837109.02 22837109.17 22837109.34 0.0270 0.0125

Jupiter 57814-08-24 05:46 G 22837424.64 22837424.74 22837424.84 0.0533 0.0343

Jupiter 57814-11-21 13:12 G 22837513.96 22837514.05 22837514.15 0.0530 0.0350

Earth 57820-03-08 03:36 G 22839447.53 22839447.65 22839447.76 0.2675 0.0125

Moon 57820-03-08 04:05 G 22839447.56 22839447.67 22839447.78 0.2680 0.0064 *

Jupiter 57821-01-04 14:53 G 22839749.94 22839750.12 22839750.30 0.0496 0.0076

Mars 57821-08-15 18:29 G 22839973.15 22839973.27 22839973.38 0.1685 0.0467

Earth 57822-09-10 07:41 G 22840363.67 22840363.82 22840363.97 0.2657 0.0139

Moon 57822-09-10 08:38 G 22840363.71 22840363.86 22840364.01 0.2663 0.0144 *

Venus 57822-11-02 21:22 G 22840417.32 22840417.39 22840417.46 0.3683 0.2492

Jupiter 57826-06-12 09:50 G 22841734.88 22841734.91 22841734.94 0.0534 0.0511

Jupiter 57826-09-09 17:31 G 22841824.11 22841824.23 22841824.35 0.0531 0.0190

Venus 57828-05-18 12:43 G 22842440.93 22842441.03 22842441.13 0.3682 0.0044

Saturn 57828-08-10 23:31 G 22842525.46 22842525.48 22842525.52 0.0289 0.0281

Saturn 57828-11-07 12:14 G 22842613.89 22842614.01 22842614.14 0.0290 0.0115

Saturn 57829-02-04 00:43 G 22842702.40 22842702.53 22842702.66 0.0290 0.0051

Saturn 57829-05-03 12:58 G 22842790.96 22842791.04 22842791.13 0.0291 0.0216

Mars 57831-01-06 04:19 G 22843403.56 22843403.68 22843403.80 0.1680 0.0446

Uranus 57832-09-16 08:38 G 22844022.81 22844022.86 22844022.93 0.0138 0.0122

Jupiter 57832-10-23 13:12 G 22844059.87 22844060.05 22844060.22 0.0496 0.0121

Uranus 57832-12-13 12:00 G 22844110.92 22844111.00 22844111.10 0.0138 0.0102

Earth 57833-03-10 21:36 G 22844198.30 22844198.40 22844198.50 0.2674 0.1086

Moon 57833-03-10 22:19 G 22844198.33 22844198.43 22844198.52 0.2674 0.1214 *

Uranus 57833-03-11 15:22 G 22844199.04 22844199.14 22844199.26 0.0138 0.0082

Uranus 57833-06-07 18:58 G 22844287.17 22844287.29 22844287.41 0.0138 0.0061

Uranus 57833-09-03 22:19 G 22844375.30 22844375.43 22844375.56 0.0138 0.0040

Mars 57833-10-05 00:29 G 22844406.38 22844406.52 22844406.66 0.1839 0.0781

Uranus 57833-12-01 01:41 G 22844463.44 22844463.57 22844463.70 0.0139 0.0020

Venus 57833-12-02 03:50 G 22844464.59 22844464.66 22844464.74 0.3682 0.2425

Uranus 57834-02-27 05:02 G 22844551.57 22844551.71 22844551.84 0.0139 0.0002

Uranus 57834-05-26 08:24 G 22844639.72 22844639.85 22844639.98 0.0139 0.0021

Uranus 57834-08-22 11:31 G 22844727.86 22844727.98 22844728.11 0.0139 0.0042

Uranus 57834-11-18 14:53 G 22844816.01 22844816.12 22844816.24 0.0139 0.0062

Uranus 57835-02-14 18:14 G 22844904.16 22844904.26 22844904.37 0.0139 0.0082

Uranus 57835-05-13 21:36 G 22844992.31 22844992.40 22844992.49 0.0139 0.0102

Uranus 57835-08-10 00:43 G 22845080.48 22845080.53 22845080.60 0.0139 0.0123

Earth 57835-09-13 13:41 G 22845115.01 22845115.07 22845115.12 0.2659 0.2460

Jupiter 57838-06-28 21:36 G 22846134.27 22846134.40 22846134.53 0.0531 0.0024

Moon 57840-03-03 19:26 G 22846748.27 22846748.31 22846748.36 0.2683 0.2415

Earth 57840-03-03 19:55 G 22846748.28 22846748.33 22846748.39 0.2677 0.2289 *

Mars 57840-05-28 13:55 G 22846834.01 22846834.08 22846834.15 0.1675 0.1361

Saturn 57842-12-02 16:48 G 22847752.05 22847752.20 22847752.36 0.0270 0.0135

Mars 57843-02-25 00:00 G 22847836.38 22847836.50 22847836.62 0.1846 0.1076

Saturn 57843-03-01 12:58 G 22847840.86 22847841.04 22847841.22 0.0270 0.0047

Saturn 57843-05-29 09:07 G 22847929.79 22847929.88 22847929.98 0.0269 0.0231

Jupiter 57844-08-11 11:46 G 22848369.86 22848369.99 22848370.13 0.0495 0.0310

Earth 57846-03-13 15:22 G 22848949.09 22848949.14 22848949.20 0.2673 0.2242

Moon 57846-03-13 16:05 G 22848949.11 22848949.17 22848949.23 0.2668 0.2240 *

Jupiter 57850-04-17 01:12 G 22850444.42 22850444.55 22850444.67 0.0532 0.0155

Jupiter 57850-07-15 08:10 G 22850533.83 22850533.84 22850533.85 0.0529 0.0526

Mars 57851-09-24 08:38 G 22850969.80 22850969.86 22850969.91 0.1690 0.1515

Earth 57853-03-06 14:10 G 22851498.99 22851499.09 22851499.20 0.2676 0.1072

Moon 57853-03-06 14:24 G 22851499.00 22851499.10 22851499.20 0.2682 0.1024 *

Moon 57855-09-08 08:38 G 22852414.75 22852414.86 22852414.97 0.2662 0.1765

Earth 57855-09-08 08:38 G 22852414.75 22852414.86 22852414.98 0.2656 0.1701 *

Jupiter 57856-08-28 16:19 G 22852770.04 22852770.18 22852770.32 0.0497 0.0303

Saturn 57858-03-27 13:41 G 22853345.96 22853346.07 22853346.18 0.0290 0.0169

Saturn 57858-06-24 02:10 G 22853434.46 22853434.59 22853434.73 0.0290 0.0009

Saturn 57858-09-20 14:38 G 22853523.00 22853523.11 22853523.22 0.0291 0.0162

Venus 57858-10-31 00:14 G 22853563.40 22853563.51 22853563.63 0.3688 0.2372

Neptune 57860-07-04 18:14 G 22854176.22 22854176.26 22854176.31 0.0088 0.0086

Neptune 57860-09-30 21:07 G 22854264.30 22854264.38 22854264.50 0.0088 0.0076

Neptune 57860-12-28 00:43 G 22854352.41 22854352.53 22854352.67 0.0088 0.0064

Mars 57861-02-13 18:29 G 22854400.16 22854400.27 22854400.38 0.1685 0.0607

Neptune 57861-03-26 04:05 G 22854440.53 22854440.67 22854440.83 0.0088 0.0054

Neptune 57861-06-22 07:12 G 22854528.65 22854528.80 22854528.98 0.0088 0.0044

Neptune 57861-09-18 10:48 G 22854616.78 22854616.95 22854617.13 0.0088 0.0032

Neptune 57861-12-15 14:10 G 22854704.91 22854705.09 22854705.28 0.0088 0.0022

Jupiter 57862-02-03 04:48 G 22854754.60 22854754.70 22854754.80 0.0533 0.0330

Neptune 57862-03-13 17:46 G 22854793.05 22854793.24 22854793.43 0.0088 0.0011

Jupiter 57862-05-03 12:14 G 22854843.91 22854844.01 22854844.10 0.0530 0.0361

Neptune 57862-06-09 21:07 G 22854881.19 22854881.38 22854881.57 0.0088 0.0001

Neptune 57862-09-06 00:29 G 22854969.33 22854969.52 22854969.71 0.0088 0.0011

Neptune 57862-12-03 03:36 G 22855057.48 22855057.65 22855057.85 0.0088 0.0023

Neptune 57863-03-01 06:58 G 22855145.63 22855145.79 22855145.98 0.0088 0.0034

Neptune 57863-05-28 10:19 G 22855233.78 22855233.93 22855234.11 0.0088 0.0045

Neptune 57863-08-24 13:41 G 22855321.94 22855322.07 22855322.24 0.0088 0.0056

Neptune 57863-11-20 17:02 G 22855410.11 22855410.21 22855410.36 0.0088 0.0067

Neptune 57864-02-16 20:38 G 22855498.28 22855498.36 22855498.47 0.0088 0.0077

Neptune 57864-05-15 00:29 G 22855586.52 22855586.52 22855586.52 0.0088 0.0088

Earth 57866-03-09 08:24 G 22856249.74 22856249.85 22856249.96 0.2675 0.0131

Moon 57866-03-09 08:53 G 22856249.76 22856249.87 22856249.98 0.2680 0.0200 *

Jupiter 57868-06-16 13:41 G 22857079.89 22857080.07 22857080.25 0.0496 0.0089

Earth 57868-09-10 14:10 G 22857165.94 22857166.09 22857166.24 0.2657 0.0544

Moon 57868-09-10 15:07 G 22857165.99 22857166.13 22857166.28 0.2663 0.0751 *

Mars 57870-07-07 04:19 G 22857830.56 22857830.68 22857830.80 0.1680 0.0315

Saturn 57872-04-20 17:17 G 22858484.09 22858484.22 22858484.36 0.0271 0.0177

Saturn 57872-07-18 13:26 G 22858572.87 22858573.06 22858573.24 0.0270 0.0007

Saturn 57872-10-15 09:36 G 22858661.77 22858661.90 22858662.03 0.0270 0.0188

Uranus 57873-01-12 18:58 G 22858751.23 22858751.29 22858751.37 0.0140 0.0129

Mars 57873-04-05 00:58 G 22858833.41 22858833.54 22858833.67 0.1840 0.0993

Uranus 57873-04-11 02:38 G 22858839.48 22858839.61 22858839.75 0.0140 0.0099

Uranus 57873-07-08 10:05 G 22858927.77 22858927.92 22858928.09 0.0140 0.0070

Uranus 57873-10-04 17:46 G 22859016.06 22859016.24 22859016.43 0.0140 0.0040

Jupiter 57873-11-22 08:24 G 22859064.81 22859064.85 22859064.89 0.0534 0.0509

Uranus 57874-01-01 01:26 G 22859104.37 22859104.56 22859104.75 0.0140 0.0010

Jupiter 57874-02-19 16:05 G 22859154.05 22859154.17 22859154.29 0.0531 0.0193

Uranus 57874-03-30 09:07 G 22859192.69 22859192.88 22859193.07 0.0140 0.0020

Uranus 57874-06-26 16:34 G 22859281.02 22859281.19 22859281.38 0.0139 0.0050

Uranus 57874-09-23 00:14 G 22859369.36 22859369.51 22859369.67 0.0139 0.0080

Uranus 57874-12-20 07:41 G 22859457.72 22859457.82 22859457.95 0.0139 0.0111

Pluto 57877-08-05 04:05 G 22860416.65 22860416.67 22860416.72 0.0077 0.0076

Pluto 57877-11-01 06:14 G 22860504.65 22860504.76 22860504.90 0.0077 0.0055

Pluto 57878-01-28 08:38 G 22860592.70 22860592.86 22860593.03 0.0077 0.0033

Pluto 57878-04-26 10:48 G 22860680.78 22860680.95 22860681.14 0.0077 0.0012

Pluto 57878-07-23 13:12 G 22860768.87 22860769.05 22860769.23 0.0077 0.0009

Pluto 57878-10-19 14:53 G 22860856.97 22860857.12 22860857.30 0.0077 0.0031

Pluto 57879-01-15 17:02 G 22860945.09 22860945.21 22860945.36 0.0077 0.0052

Earth 57879-03-12 02:24 G 22861000.50 22861000.60 22861000.70 0.2674 0.1304

Moon 57879-03-12 03:07 G 22861000.53 22861000.63 22861000.72 0.2672 0.1364 *

Pluto 57879-04-13 18:58 G 22861033.26 22861033.29 22861033.37 0.0077 0.0073

Venus 57879-06-09 18:43 G 22861090.19 22861090.28 22861090.37 0.3683 0.1566

Mars 57879-11-27 13:55 G 22861261.00 22861261.08 22861261.17 0.1676 0.1221

Jupiter 57880-04-04 12:00 G 22861389.82 22861390.00 22861390.17 0.0495 0.0108

Mars 57882-08-26 00:29 G 22862263.39 22862263.52 22862263.66 0.1846 0.0850

Venus 57884-12-23 10:05 G 22863113.82 22863113.92 22863114.01 0.3682 0.0898

Jupiter 57885-12-08 20:24 G 22863464.22 22863464.35 22863464.48 0.0532 0.0031

Moon 57886-03-05 00:29 G 22863550.45 22863550.52 22863550.59 0.2683 0.2060

Earth 57886-03-05 00:43 G 22863550.46 22863550.53 22863550.60 0.2677 0.2063 *

Saturn 57887-08-14 15:07 G 22864078.05 22864078.13 22864078.21 0.0289 0.0224

Saturn 57887-11-11 03:36 G 22864166.52 22864166.65 22864166.78 0.0289 0.0059

Saturn 57888-02-07 16:05 G 22864255.04 22864255.17 22864255.29 0.0290 0.0106

Saturn 57888-05-06 04:05 G 22864343.63 22864343.67 22864343.73 0.0290 0.0270

Venus 57890-07-09 01:12 G 22865137.51 22865137.55 22865137.59 0.3682 0.3330

Mars 57891-03-25 08:38 G 22865396.84 22865396.86 22865396.88 0.1690 0.1656

Jupiter 57892-01-22 10:19 G 22865699.79 22865699.93 22865700.07 0.0495 0.0303

Earth 57892-03-13 20:24 G 22865751.31 22865751.35 22865751.39 0.2672 0.2459

Moon 57892-03-13 20:53 G 22865751.34 22865751.37 22865751.39 0.2668 0.2565 *

Jupiter 57897-09-27 00:29 G 22867774.40 22867774.52 22867774.65 0.0532 0.0136

Earth 57899-03-07 19:12 G 22868301.19 22868301.30 22868301.40 0.2676 0.0843

Moon 57899-03-07 19:26 G 22868301.20 22868301.31 22868301.41 0.2683 0.0868 *

Mars 57900-08-15 18:29 G 22868827.16 22868827.27 22868827.38 0.1685 0.0745

Saturn 57901-09-08 13:55 G 22869216.03 22869216.08 22869216.15 0.0271 0.0253

Earth 57901-09-09 14:53 G 22869216.99 22869217.12 22869217.26 0.2656 0.1311

Moon 57901-09-09 15:22 G 22869217.00 22869217.14 22869217.27 0.2662 0.1284 *

Saturn 57901-12-06 10:05 G 22869304.75 22869304.92 22869305.10 0.0270 0.0071

Saturn 57902-03-05 06:14 G 22869393.60 22869393.76 22869393.93 0.0270 0.0111

Jupiter 57903-11-11 09:07 G 22870009.86 22870009.88 22870009.90 0.0495 0.0490

Jupiter 57904-02-09 14:53 G 22870099.99 22870100.12 22870100.26 0.0497 0.0314

Jupiter 57909-07-17 03:50 G 22872084.56 22872084.66 22872084.77 0.0533 0.0317

Jupiter 57909-10-14 11:17 G 22872173.88 22872173.97 22872174.06 0.0530 0.0374

Mars 57910-01-06 04:19 G 22872257.56 22872257.68 22872257.80 0.1680 0.0166

Earth 57912-03-10 13:12 G 22873051.94 22873052.05 22873052.16 0.2675 0.0359

Moon 57912-03-10 13:55 G 22873051.97 22873052.08 22873052.19 0.2678 0.0452 *

Mars 57912-10-05 01:26 G 22873260.44 22873260.56 22873260.67 0.1840 0.1219

Earth 57914-09-12 20:38 G 22873968.21 22873968.36 22873968.50 0.2658 0.0961

Moon 57914-09-12 21:50 G 22873968.26 22873968.41 22873968.55 0.2663 0.1007 *

Venus 57915-06-08 02:24 G 22874236.44 22874236.60 22874236.75 0.3688 0.0424

Jupiter 57915-11-28 13:12 G 22874409.87 22874410.05 22874410.23 0.0496 0.0114

Uranus 57916-07-11 12:29 G 22874636.02 22874636.02 22874636.05 0.0138 0.0137

Uranus 57916-10-07 16:05 G 22874724.10 22874724.17 22874724.24 0.0138 0.0116

Saturn 57917-01-01 16:19 G 22874810.15 22874810.18 22874810.21 0.0289 0.0280

Uranus 57917-01-03 19:26 G 22874812.22 22874812.31 22874812.41 0.0138 0.0096

Saturn 57917-03-31 04:48 G 22874898.58 22874898.70 22874898.83 0.0290 0.0115

Uranus 57917-04-01 22:48 G 22874900.34 22874900.45 22874900.57 0.0138 0.0075

Saturn 57917-06-27 17:17 G 22874987.09 22874987.22 22874987.36 0.0290 0.0052

Uranus 57917-06-29 02:10 G 22874988.47 22874988.59 22874988.72 0.0138 0.0055

Saturn 57917-09-24 05:46 G 22875075.65 22875075.74 22875075.83 0.0291 0.0215

Uranus 57917-09-25 05:31 G 22875076.60 22875076.73 22875076.86 0.0138 0.0035

Uranus 57917-12-22 08:53 G 22875164.74 22875164.87 22875165.01 0.0138 0.0015

Uranus 57918-03-20 12:14 G 22875252.88 22875253.01 22875253.15 0.0139 0.0007

Uranus 57918-06-16 15:36 G 22875341.02 22875341.15 22875341.28 0.0139 0.0027

Uranus 57918-09-12 18:58 G 22875429.17 22875429.29 22875429.42 0.0139 0.0047

Uranus 57918-12-09 22:05 G 22875517.31 22875517.42 22875517.55 0.0139 0.0068

Uranus 57919-03-08 01:26 G 22875605.47 22875605.56 22875605.67 0.0139 0.0088

Mars 57919-05-29 13:55 G 22875687.99 22875688.08 22875688.18 0.1675 0.1082

Uranus 57919-06-04 04:48 G 22875693.62 22875693.70 22875693.79 0.0139 0.0108

Uranus 57919-08-31 08:10 G 22875781.80 22875781.84 22875781.89 0.0139 0.0129

Jupiter 57921-05-05 07:26 G 22876394.77 22876394.81 22876394.86 0.0533 0.0495

Jupiter 57921-08-02 15:07 G 22876484.02 22876484.13 22876484.25 0.0531 0.0207

Mars 57922-02-25 00:43 G 22876690.39 22876690.53 22876690.67 0.1846 0.0659

Earth 57925-03-13 07:12 G 22877802.71 22877802.80 22877802.89 0.2673 0.1526

Moon 57925-03-13 07:55 G 22877802.74 22877802.83 22877802.92 0.2672 0.1622 *

Jupiter 57927-09-16 10:48 G 22878719.77 22878719.95 22878720.13 0.0495 0.0094

Venus 57930-07-02 00:43 G 22879739.48 22879739.53 22879739.58 0.3683 0.3136

Saturn 57931-04-25 10:34 G 22880036.77 22880036.94 22880037.10 0.0271 0.0115

Saturn 57931-07-23 06:29 G 22880125.60 22880125.77 22880125.95 0.0270 0.0068

Saturn 57931-10-20 02:53 G 22880214.56 22880214.62 22880214.69 0.0270 0.0252

Moon 57932-03-06 05:31 G 22880352.65 22880352.73 22880352.80 0.2683 0.1927

Earth 57932-03-06 05:46 G 22880352.66 22880352.74 22880352.82 0.2677 0.1826 *

Jupiter 57933-05-21 18:58 G 22880794.16 22880794.29 22880794.42 0.0532 0.0033

Venus 57936-01-15 16:05 G 22881763.07 22881763.17 22881763.27 0.3683 0.0663

Jupiter 57939-07-05 09:07 G 22883029.74 22883029.88 22883030.03 0.0495 0.0289

Mars 57940-02-14 18:29 G 22883254.17 22883254.27 22883254.38 0.1685 0.0885

Neptune 57941-02-03 04:19 G 22883608.65 22883608.68 22883608.73 0.0089 0.0085

Neptune 57941-05-02 05:46 G 22883696.68 22883696.74 22883696.82 0.0089 0.0077

Neptune 57941-07-29 07:12 G 22883784.72 22883784.80 22883784.89 0.0089 0.0069

Venus 57941-07-31 07:26 G 22883786.72 22883786.81 22883786.89 0.3682 0.1807

Neptune 57941-10-25 08:38 G 22883872.77 22883872.86 22883872.96 0.0089 0.0061

Neptune 57942-01-21 10:05 G 22883960.82 22883960.92 22883961.03 0.0089 0.0053

Neptune 57942-04-19 11:31 G 22884048.87 22884048.98 22884049.10 0.0089 0.0045

Neptune 57942-07-16 12:58 G 22884136.92 22884137.04 22884137.17 0.0089 0.0037

Neptune 57942-10-12 14:24 G 22884224.97 22884225.10 22884225.23 0.0089 0.0029

Neptune 57943-01-08 15:50 G 22884313.03 22884313.16 22884313.29 0.0089 0.0021

Neptune 57943-04-06 17:17 G 22884401.09 22884401.22 22884401.35 0.0089 0.0013

Neptune 57943-07-03 18:43 G 22884489.14 22884489.28 22884489.41 0.0089 0.0005

Neptune 57943-09-29 19:55 G 22884577.20 22884577.33 22884577.47 0.0089 0.0004

Neptune 57943-12-26 21:22 G 22884665.26 22884665.39 22884665.53 0.0089 0.0011

Neptune 57944-03-23 22:48 G 22884753.32 22884753.45 22884753.58 0.0089 0.0019

Neptune 57944-06-20 00:00 G 22884841.38 22884841.50 22884841.64 0.0089 0.0027

Neptune 57944-09-16 01:26 G 22884929.44 22884929.56 22884929.69 0.0089 0.0035

Neptune 57944-12-13 02:53 G 22885017.50 22885017.62 22885017.74 0.0089 0.0042

Earth 57945-03-09 00:00 G 22885103.39 22885103.50 22885103.61 0.2676 0.0615

Moon 57945-03-09 00:14 G 22885103.40 22885103.51 22885103.62 0.2682 0.0521 *

Jupiter 57945-03-09 23:02 G 22885104.34 22885104.46 22885104.59 0.0533 0.0134

Neptune 57945-03-11 04:05 G 22885105.57 22885105.67 22885105.79 0.0089 0.0050

Neptune 57945-06-07 05:31 G 22885193.64 22885193.73 22885193.84 0.0089 0.0058

Neptune 57945-09-03 06:43 G 22885281.70 22885281.78 22885281.88 0.0089 0.0066

Neptune 57945-11-30 08:24 G 22885369.78 22885369.85 22885369.92 0.0089 0.0073

Neptune 57946-02-26 09:36 G 22885457.85 22885457.90 22885457.96 0.0089 0.0081

Neptune 57946-05-25 11:02 G 22885545.96 22885545.96 22885545.96 0.0089 0.0089

Saturn 57946-08-18 06:43 G 22885630.67 22885630.78 22885630.89 0.0289 0.0163

Saturn 57946-11-14 19:12 G 22885719.17 22885719.30 22885719.44 0.0289 0.0002

Saturn 57947-02-11 07:26 G 22885807.71 22885807.81 22885807.92 0.0290 0.0165

Earth 57947-09-10 21:22 G 22886019.25 22886019.39 22886019.54 0.2656 0.0904

Moon 57947-09-10 21:50 G 22886019.27 22886019.41 22886019.56 0.2663 0.0823 *

Mars 57949-07-07 04:19 G 22886684.56 22886684.68 22886684.81 0.1680 0.0038

Jupiter 57951-04-23 07:41 G 22887339.78 22887339.82 22887339.85 0.0494 0.0483

Jupiter 57951-07-22 13:12 G 22887429.92 22887430.05 22887430.19 0.0497 0.0319

Mars 57952-04-05 01:55 G 22887687.48 22887687.58 22887687.67 0.1839 0.1431

Jupiter 57956-12-27 03:07 G 22889414.53 22889414.63 22889414.74 0.0533 0.0301

Uranus 57957-02-03 02:53 G 22889452.52 22889452.62 22889452.71 0.0140 0.0120

Jupiter 57957-03-26 10:34 G 22889503.85 22889503.94 22889504.02 0.0530 0.0391

Uranus 57957-05-02 10:05 G 22889540.79 22889540.92 22889541.07 0.0140 0.0090

Uranus 57957-07-29 17:46 G 22889629.08 22889629.24 22889629.42 0.0140 0.0060

Uranus 57957-10-26 01:26 G 22889717.38 22889717.56 22889717.75 0.0140 0.0030

Uranus 57958-01-22 09:07 G 22889805.69 22889805.88 22889806.07 0.0140 0.0001

Earth 57958-03-11 18:00 G 22889854.14 22889854.25 22889854.36 0.2674 0.0579

Moon 57958-03-11 18:43 G 22889854.17 22889854.28 22889854.39 0.2676 0.0612 *

Uranus 57958-04-20 16:34 G 22889894.01 22889894.19 22889894.38 0.0140 0.0030

Uranus 57958-07-18 00:14 G 22889982.34 22889982.51 22889982.69 0.0140 0.0060

Uranus 57958-10-14 07:55 G 22890070.69 22890070.83 22890070.98 0.0139 0.0090

Mars 57958-11-27 14:10 G 22890114.99 22890115.09 22890115.19 0.1675 0.0938

Uranus 57959-01-10 15:36 G 22890159.06 22890159.15 22890159.25 0.0139 0.0120

Saturn 57960-09-11 07:12 G 22890768.68 22890768.80 22890768.94 0.0271 0.0190

Earth 57960-09-13 03:07 G 22890770.49 22890770.63 22890770.76 0.2658 0.1369

Moon 57960-09-13 04:19 G 22890770.55 22890770.68 22890770.80 0.2662 0.1550 *

Saturn 57960-12-09 03:36 G 22890857.46 22890857.65 22890857.83 0.0270 0.0009

Saturn 57961-03-07 23:46 G 22890946.35 22890946.49 22890946.63 0.0270 0.0176

Mars 57961-08-26 01:12 G 22891117.40 22891117.55 22891117.70 0.1846 0.0436

Jupiter 57963-05-10 11:46 G 22891739.81 22891739.99 22891740.16 0.0496 0.0123

Jupiter 57968-10-15 06:29 G 22893724.72 22893724.77 22893724.83 0.0533 0.0483

Jupiter 57969-01-12 14:10 G 22893813.98 22893814.09 22893814.21 0.0531 0.0218

Earth 57971-03-14 12:00 G 22894604.92 22894605.00 22894605.09 0.2673 0.1748

Moon 57971-03-14 12:43 G 22894604.95 22894605.03 22894605.11 0.2671 0.1830 *

Venus 57972-01-13 04:19 G 22894909.61 22894909.68 22894909.75 0.3688 0.3254

Jupiter 57975-02-26 10:05 G 22896049.74 22896049.92 22896050.10 0.0496 0.0075

Saturn 57976-01-05 07:55 G 22896362.75 22896362.83 22896362.92 0.0289 0.0220

Saturn 57976-04-02 20:24 G 22896451.22 22896451.35 22896451.49 0.0290 0.0055

Saturn 57976-06-30 08:53 G 22896539.75 22896539.87 22896539.99 0.0290 0.0110

Saturn 57976-09-26 21:07 G 22896628.34 22896628.38 22896628.43 0.0291 0.0273

Moon 57978-03-07 10:34 G 22897154.85 22897154.94 22897155.03 0.2683 0.1562

Earth 57978-03-07 10:34 G 22897154.85 22897154.94 22897155.03 0.2677 0.1600 *

Mars	**57979-08-15 18:29**	**G**	**22897681.18**	**22897681.27**	**22897681.37**	**0.1685**	**0.1021**	
Jupiter	**57980-10-31 18:00**	**G**	**22898124.12**	**22898124.25**	**22898124.38**	**0.0532**	**0.0047**	
Jupiter	**57986-12-15 07:55**	**G**	**22900359.68**	**22900359.83**	**22900359.98**	**0.0495**	**0.0276**	
Venus	**57987-02-05 22:05**	**G**	**22900412.34**	**22900412.42**	**22900412.50**	**0.3683**	**0.2214**	
Mars	**57989-01-05 04:19**	**G**	**22901111.56**	**22901111.68**	**22901111.81**	**0.1680**	**0.0115**	
Saturn	**57990-01-29 07:55**	**G**	**22901500.74**	**22901500.83**	**22901500.92**	**0.0271**	**0.0233**	
Saturn	**57990-04-28 03:50**	**G**	**22901589.48**	**22901589.66**	**22901589.84**	**0.0271**	**0.0051**	
Saturn	**57990-07-26 00:00**	**G**	**22901678.35**	**22901678.50**	**22901678.66**	**0.0270**	**0.0133**	
Earth	**57991-03-10 04:48**	**G**	**22901905.59**	**22901905.70**	**22901905.81**	**0.2676**	**0.0393**	
Moon	**57991-03-10 05:17**	**G**	**22901905.61**	**22901905.72**	**22901905.83**	**0.2682**	**0.0418**	*
Mars	**57991-10-05 02:10**	**G**	**22902114.53**	**22902114.59**	**22902114.66**	**0.1840**	**0.1647**	
Jupiter	**57992-08-19 21:36**	**G**	**22902434.27**	**22902434.40**	**22902434.52**	**0.0533**	**0.0134**	
Venus	**57992-08-21 13:26**	**G**	**22902435.96**	**22902436.06**	**22902436.16**	**0.3682**	**0.0285**	
Earth	**57993-09-11 03:50**	**G**	**22902821.51**	**22902821.66**	**22902821.81**	**0.2656**	**0.0497**	
Moon	**57993-09-11 04:34**	**G**	**22902821.54**	**22902821.69**	**22902821.84**	**0.2663**	**0.0485**	*
Venus	**57998-03-07 04:34**	**G**	**22904459.63**	**22904459.69**	**22904459.76**	**0.3682**	**0.2720**	
Mars	**57998-05-28 14:10**	**G**	**22904541.98**	**22904542.09**	**22904542.20**	**0.1676**	**0.0794**	
Jupiter	**57998-10-03 06:29**	**G**	**22904669.72**	**22904669.77**	**22904669.82**	**0.0494**	**0.0468**	
Jupiter	**57999-01-01 12:00**	**G**	**22904759.87**	**22904760.00**	**22904760.14**	**0.0496**	**0.0332**	
Uranus	**58000-07-31 20:10**	**G**	**22905337.31**	**22905337.34**	**22905337.40**	**0.0138**	**0.0129**	
Uranus	**58000-10-27 23:46**	**G**	**22905425.41**	**22905425.49**	**22905425.57**	**0.0138**	**0.0108**	

59TH MILLENNIUM CE

This is a list of transits of Mercury in the 59th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S

	TRANSIT TIME					
Uranus	**58001-01-24 03:07 G**	**22905513.53**	**22905513.63**	**22905513.74**	**0.0138**	**0.0088**
Mars	**58001-02-24 01:55 G**	**22905544.43**	**22905544.58**	**22905544.73**	**0.1846**	**0.0202**
Uranus	**58001-04-22 06:29 G**	**22905601.66**	**22905601.77**	**22905601.89**	**0.0138**	**0.0068**
Uranus	**58001-07-19 09:50 G**	**22905689.79**	**22905689.91**	**22905690.04**	**0.0138**	**0.0047**
Uranus	**58001-10-15 13:12 G**	**22905777.92**	**22905778.05**	**22905778.19**	**0.0138**	**0.0027**
Uranus	**58002-01-11 16:34 G**	**22905866.06**	**22905866.19**	**22905866.33**	**0.0138**	**0.0008**
Uranus	**58002-04-09 19:55 G**	**22905954.20**	**22905954.33**	**22905954.47**	**0.0139**	**0.0015**
Uranus	**58002-07-06 23:17 G**	**22906042.34**	**22906042.47**	**22906042.60**	**0.0139**	**0.0035**
Uranus	**58002-10-03 02:38 G**	**22906130.49**	**22906130.61**	**22906130.73**	**0.0139**	**0.0055**
Uranus	**58002-12-30 06:00 G**	**22906218.64**	**22906218.75**	**22906218.86**	**0.0139**	**0.0075**
Uranus	**58003-03-28 09:07 G**	**22906306.79**	**22906306.88**	**22906306.98**	**0.0139**	**0.0096**
Uranus	**58003-06-24 12:29 G**	**22906394.96**	**22906395.02**	**22906395.10**	**0.0139**	**0.0116**
Uranus	**58003-09-20 15:50 G**	**22906483.14**	**22906483.16**	**22906483.19**	**0.0139**	**0.0136**
Earth	**58004-03-11 23:02 G**	**22906656.35**	**22906656.46**	**22906656.56**	**0.2674**	**0.0803**
Moon	**58004-03-11 23:46 G**	**22906656.38**	**22906656.49**	**22906656.59**	**0.2675**	**0.0950** *
Jupiter	**58004-06-08 01:41 G**	**22906744.46**	**22906744.57**	**22906744.67**	**0.0533**	**0.0303**
Jupiter	**58004-09-05 09:07 G**	**22906833.79**	**22906833.88**	**22906833.96**	**0.0531**	**0.0392**
Saturn	**58005-05-24 10:05 G**	**22907094.88**	**22907094.92**	**22907094.98**	**0.0288**	**0.0264**
Saturn	**58005-08-20 22:48 G**	**22907183.32**	**22907183.45**	**22907183.58**	**0.0289**	**0.0099**
Saturn	**58005-11-17 11:17 G**	**22907271.83**	**22907271.97**	**22907272.10**	**0.0289**	**0.0065**
Saturn	**58006-02-13 23:17 G**	**22907360.40**	**22907360.47**	**22907360.56**	**0.0290**	**0.0228**
Earth	**58006-09-14 09:36 G**	**22907572.78**	**22907572.90**	**22907573.01**	**0.2658**	**0.1788**
Moon	**58006-09-14 11:02 G**	**22907572.85**	**22907572.96**	**22907573.06**	**0.2661**	**0.1940** *
Jupiter	**58010-10-20 09:50 G**	**22909069.74**	**22909069.91**	**22909070.09**	**0.0496**	**0.0127**
Moon	**58011-03-05 20:38 G**	**22909206.34**	**22909206.36**	**22909206.37**	**0.2682**	**0.2644**
Earth	**58011-03-05 21:07 G**	**22909206.36**	**22909206.38**	**22909206.41**	**0.2678**	**0.2595** *
Jupiter	**58016-03-27 05:31 G**	**22911054.67**	**22911054.73**	**22911054.79**	**0.0534**	**0.0472**
Jupiter	**58016-06-24 13:12 G**	**22911143.94**	**22911144.05**	**22911144.17**	**0.0531**	**0.0230**

Earth 58017-03-14 17:02 G 22911407.13 22911407.21 22911407.28 0.2673 0.1964

Moon 58017-03-14 17:31 G 22911407.16 22911407.23 22911407.30 0.2670 0.2008 *

Mars 58019-02-13 18:43 G 22912108.19 22912108.28 22912108.36 0.1685 0.1161

Saturn 58019-09-15 01:12 G 22912321.39 22912321.55 22912321.71 0.0271 0.0122

Saturn 58019-12-12 21:22 G 22912410.21 22912410.39 22912410.57 0.0270 0.0061

Saturn 58020-03-10 17:31 G 22912499.16 22912499.23 22912499.31 0.0270 0.0245

Jupiter 58022-08-08 08:24 G 22913379.67 22913379.85 22913380.03 0.0495 0.0068

Venus 58023-02-02 21:07 G 22913558.27 22913558.38 22913558.50 0.3688 0.2415

Moon 58024-03-07 15:36 G 22913957.05 22913957.15 22913957.24 0.2684 0.1415

Earth 58024-03-07 15:36 G 22913957.05 22913957.15 22913957.24 0.2677 0.1365 *

Neptune 58025-04-01 15:22 G 22914347.10 22914347.14 22914347.22 0.0088 0.0084

Neptune 58025-06-28 18:58 G 22914435.19 22914435.29 22914435.40 0.0088 0.0073

Neptune 58025-09-24 22:05 G 22914523.30 22914523.42 22914523.57 0.0088 0.0062

Neptune 58025-12-22 01:26 G 22914611.42 22914611.56 22914611.72 0.0088 0.0052

Neptune 58026-03-20 05:02 G 22914699.54 22914699.71 22914699.88 0.0088 0.0041

Neptune 58026-06-16 08:10 G 22914787.67 22914787.84 22914788.03 0.0088 0.0030

Earth 58026-09-09 05:02 G 22914872.64 22914872.71 22914872.78 0.2655 0.2295

Moon 58026-09-09 05:02 G 22914872.65 22914872.71 22914872.77 0.2662 0.2410 *

Neptune 58026-09-12 11:31 G 22914875.80 22914875.98 22914876.18 0.0088 0.0020

Neptune 58026-12-09 15:07 G 22914963.94 22914964.13 22914964.32 0.0088 0.0008

Neptune 58027-03-07 18:29 G 22915052.08 22915052.27 22915052.46 0.0088 0.0003

Neptune 58027-06-03 21:50 G 22915140.22 22915140.41 22915140.60 0.0088 0.0013

Neptune 58027-08-31 01:12 G 22915228.37 22915228.55 22915228.74 0.0088 0.0024

Neptune 58027-11-27 04:34 G 22915316.52 22915316.69 22915316.87 0.0088 0.0035

Neptune 58028-02-23 07:55 G 22915404.67 22915404.83 22915405.00 0.0088 0.0046

Jupiter 58028-04-12 17:02 G 22915454.08 22915454.21 22915454.34 0.0532 0.0056

Neptune 58028-05-21 11:17 G 22915492.83 22915492.97 22915493.12 0.0088 0.0057

Mars 58028-07-06 04:34 G 22915538.56 22915538.69 22915538.81 0.1680 0.0259

Neptune 58028-08-17 14:38 G 22915581.00 22915581.11 22915581.24 0.0088 0.0068

Neptune 58028-11-13 18:00 G 22915669.18 22915669.25 22915669.35 0.0088 0.0080

Jupiter 58034-05-27 06:43 G 22917689.63 22917689.78 22917689.94 0.0495 0.0262

Saturn 58035-01-08 00:00 G 22917915.39 22917915.50 22917915.62 0.0289 0.0154

Saturn 58035-04-06 12:29 G 22918003.89 22918004.02 22918004.16 0.0290 0.0014

Saturn 58035-07-04 00:58 G 22918092.43 22918092.54 22918092.64 0.0290 0.0174

Pluto 58036-12-10 02:10 G 22918617.55 22918617.59 22918617.67 0.0067 0.0060

Pluto 58037-03-08 02:53 G 22918705.54 22918705.62 22918705.73 0.0067 0.0049

Earth 58037-03-10 09:50 G 22918707.79 22918707.91 22918708.02 0.2675 0.0194

Moon 58037-03-10 10:05 G 22918707.81 22918707.92 22918708.04 0.2680 0.0113 *

Pluto 58037-06-04 03:36 G 22918793.54 22918793.65 22918793.77 0.0067 0.0038

Pluto 58037-08-31 04:19 G 22918881.55 22918881.68 22918881.81 0.0067 0.0027

Mars 58037-11-26 14:10 G 22918968.98 22918969.09 22918969.21 0.1675 0.0658

Pluto 58037-11-27 05:02 G 22918969.57 22918969.71 22918969.85 0.0067 0.0016

Pluto 58038-02-23 05:31 G 22919057.59 22919057.73 22919057.88 0.0067 0.0006

Pluto 58038-05-22 06:14 G 22919145.62 22919145.76 22919145.90 0.0067 0.0006

Pluto 58038-08-18 06:58 G 22919233.65 22919233.79 22919233.92 0.0067 0.0017

Pluto 58038-11-14 07:26 G 22919321.69 22919321.81 22919321.94 0.0067 0.0028

Pluto 58039-02-10 08:10 G 22919409.73 22919409.84 22919409.95 0.0068 0.0039

Pluto 58039-05-09 08:38 G 22919497.77 22919497.86 22919497.96 0.0068 0.0050

Pluto 58039-08-05 09:22 G 22919585.84 22919585.89 22919585.95 0.0068 0.0061

Earth 58039-09-12 10:19 G 22919623.78 22919623.93 22919624.08 0.2657 0.0092

Moon 58039-09-12 11:02 G 22919623.81 22919623.96 22919624.11 0.2663 0.0062 *

Jupiter 58040-01-30 20:38 G 22919764.23 22919764.36 22919764.49 0.0532 0.0121

Mars 58040-08-25 01:55 G 22919971.43 22919971.58 22919971.74 0.1846 0.0027

Uranus 58040-11-27 02:53 G 22920065.61 22920065.62 22920065.65 0.0140 0.0139

Uranus 58041-02-23 10:34 G 22920153.83 22920153.94 22920154.06 0.0140 0.0110

Uranus 58041-05-22 18:00 G 22920242.10 22920242.25 22920242.41 0.0140 0.0080

Uranus 58041-08-19 01:41 G 22920330.40 22920330.57 22920330.75 0.0140 0.0050

Uranus 58041-11-15 09:22 G 22920418.70 22920418.89 22920419.08 0.0140 0.0020

Uranus 58042-02-11 17:02 G 22920507.02 22920507.21 22920507.40 0.0140 0.0010

Uranus 58042-05-11 00:29 G 22920595.34 22920595.52 22920595.71 0.0140 0.0040

Uranus 58042-08-07 08:10 G 22920683.68 22920683.84 22920684.01 0.0140 0.0070

Uranus 58042-11-03 15:50 G 22920772.03 22920772.16 22920772.30 0.0139 0.0100

Uranus 58043-01-30 23:17 G 22920860.42 22920860.47 22920860.55 0.0139 0.0130

Venus 58043-09-12 19:26 G 22921085.21 22921085.31 22921085.40 0.3683 0.1285

Jupiter 58046-03-15 05:02 G 22921999.65 22921999.71 22921999.78 0.0494 0.0458

Jupiter 58046-06-13 10:34 G 22922089.82 22922089.94 22922090.08 0.0496 0.0343

Mars 58047-04-19 00:00 G 22922399.46 22922399.50 22922399.54 0.1671 0.1564

Saturn 58049-02-01 01:41 G 22923053.43 22923053.57 22923053.71 0.0271 0.0166

Venus 58049-03-28 10:48 G 22923108.85 22923108.95 22923109.04 0.3682 0.1191

Saturn 58049-04-30 21:50 G 22923142.22 22923142.41 22923142.59 0.0271 0.0018

Saturn 58049-07-28 18:00 G 22923231.13 22923231.25 22923231.37 0.0271 0.0202

Mars 58050-01-15 01:55 G 22923401.56 22923401.58 22923401.60 0.1852 0.1831

Earth 58050-03-13 03:50 G 22923458.56 22923458.66 22923458.76 0.2674 0.1020

Moon 58050-03-13 04:34 G 22923458.59 22923458.69 22923458.79 0.2675 0.1043 *

Jupiter 58051-11-19 00:00 G 22924074.39 22924074.50 22924074.60 0.0534 0.0307

Jupiter 58052-02-16 07:26 G 22924163.72 22924163.81 22924163.90 0.0531 0.0389

Earth 58052-09-14 16:05 G 22924375.08 22924375.17 22924375.25 0.2658 0.2204

Moon 58052-09-14 17:31 G 22924375.16 22924375.23 22924375.30 0.2660 0.2344 *

Venus 58054-10-12 01:55 G 22925132.57 22925132.58 22925132.60 0.3682 0.3627

Moon 58057-03-06 01:41 G 22926008.52 22926008.57 22926008.61 0.2683 0.2423

Earth 58057-03-06 02:10 G 22926008.54 22926008.59 22926008.64 0.2678 0.2359 *

Jupiter 58058-04-01 08:38 G 22926399.69 22926399.86 22926400.04 0.0495 0.0139

Mars 58058-08-14 18:43 G 22926535.20 22926535.28 22926535.35 0.1685 0.1295

Earth 58063-03-15 21:50 G 22928209.35 22928209.41 22928209.47 0.2673 0.2178

Moon 58063-03-15 22:19 G 22928209.37 22928209.43 22928209.48 0.2668 0.2277 *

Jupiter 58063-09-07 03:50 G 22928384.60 22928384.66 22928384.71 0.0534 0.0478

Jupiter 58063-12-05 11:31 G 22928473.87 22928473.98 22928474.10 0.0532 0.0226

Saturn 58064-05-27 02:53 G 22928647.52 22928647.62 22928647.72 0.0288 0.0193

Saturn 58064-08-23 15:22 G 22928736.00 22928736.14 22928736.27 0.0289 0.0030

Saturn 58064-11-20 03:36 G 22928824.53 22928824.65 22928824.77 0.0289 0.0134

Mars 58068-01-05 04:34 G 22929965.57 22929965.69 22929965.81 0.1680 0.0395

Jupiter 58070-01-18 06:29 G 22930709.59 22930709.77 22930709.95 0.0495 0.0066

Moon 58070-03-08 20:24 G 22930759.25 22930759.35 22930759.45 0.2684 0.1107

Earth 58070-03-08 20:24 G 22930759.25 22930759.35 22930759.45 0.2677 0.1139 *

Moon 58072-09-09 11:31 G 22931674.87 22931674.98 22931675.09 0.2662 0.1805

Earth 58072-09-09 11:17 G 22931674.87 22931674.97 22931675.08 0.2655 0.1909 *

Jupiter 58075-09-23 15:50 G 22932784.03 22932784.16 22932784.29 0.0532 0.0063

Mars 58077-05-27 14:24 G 22933395.98 22933396.10 22933396.21 0.1675 0.0518

Saturn 58078-06-20 23:31 G 22933785.39 22933785.48 22933785.58 0.0271 0.0231

Saturn 58078-09-17 19:41 G 22933874.14 22933874.32 22933874.50 0.0271 0.0049

Saturn 58078-12-15 15:50 G 22933963.00 22933963.16 22933963.32 0.0270 0.0134

Venus 58079-09-09 23:17 G 22934231.31 22934231.47 22934231.62 0.3688 0.0396

Mars 58080-02-24 02:38 G 22934398.45 22934398.61 22934398.76 0.1846 0.0217

Jupiter 58081-11-06 05:02 G 22935019.55 22935019.71 22935019.86 0.0495 0.0259

Earth 58083-03-11 14:38 G 22935510.00 22935510.11 22935510.22 0.2675 0.0069

Moon 58083-03-11 15:07 G 22935510.02 22935510.13 22935510.25 0.2679 0.0130 *

Uranus 58084-08-21 03:50 G 22936038.60 22936038.66 22936038.72 0.0138 0.0122

Uranus 58084-11-17 07:12 G 22936126.72 22936126.80 22936126.90 0.0138 0.0102

Uranus 58085-02-13 10:34 G 22936214.84 22936214.94 22936215.05 0.0138 0.0082

Uranus 58085-05-12 13:55 G 22936302.97 22936303.08 22936303.21 0.0138 0.0061

Uranus 58085-08-08 17:31 G 22936391.10 22936391.23 22936391.36 0.0138 0.0040

Earth 58085-09-12 16:48 G 22936426.04 22936426.20 22936426.35 0.2657 0.0324

Moon 58085-09-12 17:46 G 22936426.09 22936426.24 22936426.39 0.2662 0.0337 *

Uranus 58085-11-04 20:53 G 22936479.24 22936479.37 22936479.50 0.0138 0.0020

Uranus 58086-02-01 00:14 G 22936567.37 22936567.51 22936567.64 0.0138 0.0002

Uranus 58086-04-30 03:36 G 22936655.52 22936655.65 22936655.78 0.0139 0.0021

Uranus 58086-07-27 06:43 G 22936743.66 22936743.78 22936743.91 0.0139 0.0042

Mars 58086-10-18 00:00 G 22936826.44 22936826.50 22936826.56 0.1671 0.1423

Uranus 58086-10-23 10:05 G 22936831.81 22936831.92 22936832.04 0.0139 0.0062

Uranus 58087-01-19 13:26 G 22936919.96 22936920.06 22936920.17 0.0139 0.0082

Uranus 58087-04-17 16:48 G 22937008.12 22937008.20 22937008.29 0.0139 0.0102

Jupiter 58087-07-12 19:26 G 22937094.18 22937094.31 22937094.43 0.0532 0.0115

Uranus 58087-07-14 19:55 G 22937096.28 22937096.33 22937096.40 0.0139 0.0123

Mars 58089-07-16 01:55 G 22937828.52 22937828.58 22937828.65 0.1852 0.1643

Jupiter 58093-08-25 03:22 G 22939329.58 22939329.64 22939329.72 0.0494 0.0451

Saturn 58093-10-14 04:05 G 22939379.61 22939379.67 22939379.74 0.0289 0.0247

Jupiter 58093-11-23 09:07 G 22939419.76 22939419.88 22939420.01 0.0497 0.0352

Saturn 58094-01-10 16:34 G 22939468.07 22939468.19 22939468.32 0.0289 0.0083

Saturn 58094-04-09 05:02 G 22939556.58 22939556.71 22939556.84 0.0290 0.0081

Saturn 58094-07-06 17:17 G 22939645.15 22939645.22 22939645.29 0.0290 0.0244

Venus 58094-10-04 01:26 G 22939734.49 22939734.56 22939734.62 0.3683 0.2846

Earth 58096-03-13 08:38 G 22940260.76 22940260.86 22940260.96 0.2674 0.1241

Moon 58096-03-13 09:22 G 22940260.80 22940260.89 22940260.99 0.2674 0.1393 *

Mars 58098-02-12 18:43 G 22940962.22 22940962.28 22940962.34 0.1685 0.1433

Earth 58098-09-15 22:34 G 22941177.42 22941177.44 22941177.46 0.2658 0.2629

Jupiter 58099-04-30 22:48 G 22941404.35 22941404.45 22941404.56 0.0533 0.0295

Jupiter 58099-07-29 06:14 G 22941493.68 22941493.76 22941493.85 0.0530 0.0399

Venus 58100-04-19 16:48 G 22941758.10 22941758.20 22941758.30 0.3682 0.0362

Moon 58103-03-08 06:43 G 22942810.72 22942810.78 22942810.84 0.2684 0.2198

Earth 58103-03-08 06:58 G 22942810.73 22942810.79 22942810.86 0.2678 0.2128 *

Jupiter 58105-09-12 06:58 G 22943729.62 22943729.79 22943729.97 0.0496 0.0147

Neptune 58105-11-01 03:22 G 22943779.61 22943779.64 22943779.70 0.0089 0.0084

Venus 58105-11-03 08:10 G 22943781.75 22943781.84 22943781.92 0.3682 0.2110

Neptune 58106-01-28 04:48 G 22943867.64 22943867.70 22943867.78 0.0089 0.0076

Neptune 58106-04-26 06:14 G 22943955.69 22943955.76 22943955.86 0.0089 0.0068

Neptune 58106-07-23 07:41 G 22944043.73 22944043.82 22944043.93 0.0089 0.0060

Neptune 58106-10-19 09:07 G 22944131.78 22944131.88 22944132.00 0.0089 0.0052

Neptune 58107-01-15 10:34 G 22944219.83 22944219.94 22944220.07 0.0089 0.0044

Neptune 58107-04-13 12:00 G 22944307.88 22944308.00 22944308.13 0.0089 0.0036

Mars 58107-07-07 04:34 G 22944392.57 22944392.69 22944392.80 0.1680 0.0526

Neptune 58107-07-10 13:41 G 22944395.94 22944396.07 22944396.20 0.0089 0.0027

Neptune 58107-10-06 15:07 G 22944483.99 22944484.13 22944484.26 0.0089 0.0019

Neptune 58108-01-02 16:19 G 22944572.05 22944572.18 22944572.32 0.0089 0.0012

Saturn 58108-02-05 20:10 G 22944606.17 22944606.34 22944606.51 0.0271 0.0092

Neptune 58108-03-30 17:46 G 22944660.11 22944660.24 22944660.38 0.0089 0.0004

Saturn 58108-05-04 16:19 G 22944695.01 22944695.18 22944695.35 0.0271 0.0092

Neptune 58108-06-26 19:12 G 22944748.17 22944748.30 22944748.43 0.0089 0.0005

Neptune 58108-09-22 20:38 G 22944836.23 22944836.36 22944836.49 0.0089 0.0013

Neptune 58108-12-19 21:50 G 22944924.28 22944924.41 22944924.55 0.0089 0.0021

Earth 58109-03-17 02:38 G 22945011.56 22945011.61 22945011.66 0.2673 0.2396

Moon 58109-03-17 03:07 G 22945011.58 22945011.63 22945011.68 0.2667 0.2379 *

Neptune 58109-03-17 23:17 G 22945012.35 22945012.47 22945012.60 0.0089 0.0028

Neptune 58109-06-14 00:43 G 22945100.41 22945100.53 22945100.65 0.0089 0.0036

Neptune 58109-09-10 01:55 G 22945188.47 22945188.58 22945188.70 0.0089 0.0044

Neptune 58109-12-07 03:07 G 22945276.54 22945276.63 22945276.75 0.0089 0.0052

Neptune 58110-03-05 04:48 G 22945364.60 22945364.70 22945364.80 0.0089 0.0059

Neptune 58110-06-01 06:00 G 22945452.67 22945452.75 22945452.84 0.0089 0.0067

Neptune 58110-08-28 07:12 G 22945540.74 22945540.80 22945540.88 0.0089 0.0075

Neptune 58110-11-24 08:38 G 22945628.82 22945628.86 22945628.92 0.0089 0.0083

Jupiter 58111-02-18 01:55 G 22945714.53 22945714.58 22945714.63 0.0534 0.0485

Jupiter 58111-05-18 09:50 G 22945803.79 22945803.91 22945804.02 0.0532 0.0220

Earth 58116-03-10 01:26 G 22947561.45 22947561.56 22947561.66 0.2676 0.0913

Moon 58116-03-10 01:26 G 22947561.46 22947561.56 22947561.66 0.2683 0.0909 *

Mars 58116-11-26 14:24 G 22947822.98 22947823.10 22947823.22 0.1676 0.0377

Jupiter 58117-07-01 05:02 G 22948039.53 22948039.71 22948039.89 0.0495 0.0055

Earth 58118-09-11 17:46 G 22948477.12 22948477.24 22948477.37 0.2655 0.1505

Moon 58118-09-11 18:00 G 22948477.13 22948477.25 22948477.37 0.2663 0.1589 *

Mars 58119-08-26 03:07 G 22948825.48 22948825.63 22948825.78 0.1846 0.0437

Saturn 58123-03-04 07:12 G 22950111.78 22950111.80 22950111.83 0.0288 0.0280

Jupiter 58123-03-06 13:41 G 22950113.95 22950114.07 22950114.20 0.0532 0.0055

Saturn 58123-05-31 19:55 G 22950200.20 22950200.33 22950200.45 0.0288 0.0115

Saturn 58123-08-28 08:10 G 22950288.71 22950288.84 22950288.98 0.0289 0.0049

Saturn 58123-11-24 20:24 G 22950377.27 22950377.35 22950377.45 0.0289 0.0211

Pluto 58123-12-26 16:19 G 22950409.12 22950409.18 22950409.26 0.0078 0.0072

Pluto 58124-03-23 18:29 G 22950497.15 22950497.27 22950497.42 0.0077 0.0050

Pluto 58124-06-19 20:38 G 22950585.20 22950585.36 22950585.54 0.0077 0.0029

Pluto 58124-09-15 23:02 G 22950673.28 22950673.46 22950673.64 0.0077 0.0008

Pluto 58124-12-13 01:12 G 22950761.37 22950761.55 22950761.73 0.0077 0.0013

Uranus 58124-12-18 11:02 G 22950766.90 22950766.96 22950767.05 0.0140 0.0128

Pluto 58125-03-11 03:22 G 22950849.48 22950849.64 22950849.80 0.0077 0.0034

Uranus 58125-03-16 18:43 G 22950855.16 22950855.28 22950855.42 0.0140 0.0098

Pluto 58125-06-07 05:31 G 22950937.60 22950937.73 22950937.85 0.0077 0.0055

Uranus 58125-06-13 02:24 G 22950943.44 22950943.60 22950943.77 0.0140 0.0068

Pluto 58125-09-03 07:26 G 22951025.80 22951025.81 22951025.84 0.0077 0.0076

Uranus 58125-09-09 09:50 G 22951031.74 22951031.91 22951032.10 0.0140 0.0039

Uranus 58125-12-06 17:31 G 22951120.04 22951120.23 22951120.42 0.0140 0.0009

Uranus 58126-03-05 01:12 G 22951208.36 22951208.55 22951208.74 0.0140 0.0021

Mars 58126-04-19 00:14 G 22951253.43 22951253.51 22951253.58 0.1671 0.1279

Uranus 58126-06-01 08:38 G 22951296.69 22951296.86 22951297.05 0.0140 0.0052

Uranus 58126-08-28 16:19 G 22951385.04 22951385.18 22951385.35 0.0140 0.0082

Uranus 58126-11-25 00:00 G 22951473.40 22951473.50 22951473.62 0.0139 0.0112

Mars 58129-01-15 02:38 G 22952255.51 22952255.61 22952255.70 0.1852 0.1423

Earth 58129-03-12 19:26 G 22952312.20 22952312.31 22952312.42 0.2675 0.0287

Moon 58129-03-12 20:10 G 22952312.23 22952312.34 22952312.45 0.2678 0.0405 *

Jupiter 58129-04-19 02:38 G 22952349.47 22952349.61 22952349.77 0.0494 0.0260

Earth 58131-09-14 23:02 G 22953228.32 22953228.46 22953228.61 0.2657 0.0730

Moon 58131-09-15 00:29 G 22953228.37 22953228.52 22953228.66 0.2661 0.0963 *

Jupiter 58134-12-23 18:00 G 22954424.12 22954424.25 22954424.37 0.0533 0.0115

Venus 58136-04-17 01:12 G 22954904.48 22954904.55 22954904.63 0.3688 0.3226

Saturn 58137-06-24 18:43 G 22955338.13 22955338.28 22955338.43 0.0271 0.0152

Mars 58137-08-14 18:43 G 22955389.24 22955389.28 22955389.32 0.1685 0.1568

Saturn 58137-09-21 14:53 G 22955426.94 22955427.12 22955427.30 0.0271 0.0031

Saturn 58137-12-19 10:48 G 22955515.86 22955515.95 22955516.07 0.0270 0.0216

Jupiter 58141-02-05 01:12 G 22956659.49 22956659.55 22956659.63 0.0494 0.0451

Jupiter 58141-05-06 06:58 G 22956749.66 22956749.79 22956749.92 0.0496 0.0350

Earth 58142-03-15 13:41 G 22957062.97 22957063.07 22957063.16 0.2674 0.1465

Moon 58142-03-15 14:10 G 22957063.00 22957063.09 22957063.19 0.2673 0.1483 *

Jupiter 58146-10-11 21:36 G 22958734.29 22958734.40 22958734.50 0.0533 0.0293

Mars 58147-01-05 04:34 G 22958819.58 22958819.69 22958819.80 0.1680 0.0667

Jupiter 58147-01-09 04:48 G 22958823.62 22958823.70 22958823.79 0.0530 0.0402

Moon 58149-03-08 11:46 G 22959612.91 22959612.99 22959613.07 0.2684 0.1890

Earth 58149-03-08 12:00 G 22959612.92 22959613.00 22959613.08 0.2677 0.1894 *

Venus 58151-05-11 22:48 G 22960407.36 22960407.45 22960407.53 0.3683 0.1910

Saturn 58152-10-17 21:22 G 22960932.28 22960932.39 22960932.50 0.0289 0.0168

Saturn 58153-01-14 09:50 G 22961020.78 22961020.91 22961021.04 0.0289 0.0004

Jupiter 58153-02-22 05:02 G 22961059.54 22961059.71 22961059.89 0.0496 0.0150

Saturn 58153-04-12 22:05 G 22961109.31 22961109.42 22961109.54 0.0290 0.0159

Earth 58155-03-18 07:26 G 22961813.79 22961813.81 22961813.83 0.2673 0.2612

Mars 58156-05-27 14:24 G 22962249.98 22962250.10 22962250.22 0.1675 0.0242

Venus 58156-11-24 14:10 G 22962430.99 22962431.09 22962431.19 0.3682 0.0571

Jupiter 58158-07-31 00:58 G 22963044.48 22963044.54 22963044.60 0.0534 0.0474

Jupiter 58158-10-28 08:38 G 22963133.75 22963133.86 22963133.98 0.0531 0.0228

Mars 58159-02-24 03:22 G 22963252.49 22963252.64 22963252.78 0.1846 0.0630

Earth 58162-03-11 06:14 G 22964363.65 22964363.76 22964363.87 0.2676 0.0681

Moon 58162-03-11 06:29 G 22964363.66 22964363.77 22964363.88 0.2682 0.0661 *

Venus 58162-06-10 05:31 G 22964454.67 22964454.73 22964454.78 0.3682 0.3022

Earth 58164-09-12 00:14 G 22965279.37 22965279.51 22965279.64 0.2656 0.1113

Moon 58164-09-12 00:29 G 22965279.38 22965279.52 22965279.66 0.2662 0.1008 *

Jupiter 58164-12-11 03:22 G 22965369.46 22965369.64 22965369.82 0.0495 0.0051

Mars 58165-10-18 00:14 G 22965680.42 22965680.51 22965680.60 0.1671 0.1142

Saturn 58166-11-11 19:26 G 22966070.18 22966070.31 22966070.43 0.0272 0.0195

Saturn 58167-02-08 15:22 G 22966158.96 22966159.14 22966159.32 0.0271 0.0012

Saturn 58167-05-08 11:31 G 22966247.85 22966247.98 22966248.13 0.0271 0.0173

Uranus 58168-06-15 07:55 G 22966651.82 22966651.83 22966651.87 0.0138 0.0135

Mars 58168-07-16 03:07 G 22966682.51 22966682.63 22966682.74 0.1852 0.1198

Uranus 58168-09-11 11:31 G 22966739.91 22966739.98 22966740.06 0.0138 0.0114

Uranus 58168-12-08 14:53 G 22966828.03 22966828.12 22966828.23 0.0138 0.0094

Uranus 58169-03-06 18:29 G 22966916.16 22966916.27 22966916.38 0.0138 0.0073

Uranus 58169-06-02 21:50 G 22967004.29 22967004.41 22967004.53 0.0138 0.0053

Uranus 58169-08-30 01:12 G 22967092.42 22967092.55 22967092.68 0.0138 0.0032

Uranus 58169-11-26 04:34 G 22967180.56 22967180.69 22967180.83 0.0138 0.0012

Uranus 58170-02-22 07:55 G 22967268.70 22967268.83 22967268.97 0.0139 0.0009

Uranus 58170-05-21 11:17 G 22967356.84 22967356.97 22967357.10 0.0139 0.0029

Jupiter 58170-08-16 11:46 G 22967443.87 22967443.99 22967444.12 0.0532 0.0046

Uranus 58170-08-17 14:38 G 22967444.99 22967445.11 22967445.24 0.0139 0.0049

Uranus 58170-11-13 18:00 G 22967533.14 22967533.25 22967533.37 0.0139 0.0070

Uranus 58171-02-09 21:22 G 22967621.29 22967621.39 22967621.49 0.0139 0.0090

Uranus 58171-05-09 00:43 G 22967709.45 22967709.53 22967709.61 0.0139 0.0110

Uranus 58171-08-05 03:50 G 22967797.62 22967797.66 22967797.71 0.0139 0.0131

Earth 58175-03-14 00:29 G 22969114.41 22969114.52 22969114.63 0.2675 0.0522

Moon 58175-03-14 00:58 G 22969114.44 22969114.54 22969114.65 0.2678 0.0577 *

Jupiter 58176-09-29 01:26 G 22969679.40 22969679.56 22969679.71 0.0494 0.0249

Earth 58177-09-15 05:31 G 22970030.60 22970030.73 22970030.87 0.2657 0.1145

Moon 58177-09-15 07:12 G 22970030.66 22970030.80 22970030.93 0.2661 0.1194 *

Saturn 58182-03-07 00:58 G 22971664.44 22971664.54 22971664.64 0.0288 0.0197

Saturn 58182-06-03 13:26 G 22971752.92 22971753.06 22971753.19 0.0288 0.0034

Jupiter 58182-06-04 15:50 G 22971754.03 22971754.16 22971754.28 0.0533 0.0129

Saturn 58182-08-31 01:41 G 22971841.45 22971841.57 22971841.69 0.0289 0.0129

Mars 58186-07-06 04:34 G 22973246.59 22973246.69 22973246.80 0.1680 0.0806

Venus 58187-05-08 18:14 G 22973553.14 22973553.26 22973553.38 0.3688 0.2388

Earth 58188-03-15 18:29 G 22973865.18 22973865.27 22973865.35 0.2674 0.1682

Moon 58188-03-15 18:58 G 22973865.21 22973865.29 22973865.37 0.2671 0.1799 *

Jupiter 58188-07-17 23:02 G 22973989.39 22973989.46 22973989.53 0.0494 0.0454

Jupiter 58188-10-16 04:34 G 22974079.56 22974079.69 22974079.82 0.0496 0.0345

Neptune 58189-12-28 12:29 G 22974517.97 22974518.02 22974518.11 0.0088 0.0082

Neptune 58190-03-26 15:50 G 22974606.07 22974606.16 22974606.29 0.0088 0.0071

Neptune 58190-06-22 19:26 G 22974694.18 22974694.31 22974694.45 0.0088 0.0060

Neptune 58190-09-18 22:34 G 22974782.30 22974782.44 22974782.61 0.0088 0.0050

Neptune 58190-12-16 01:55 G 22974870.42 22974870.58 22974870.76 0.0088 0.0039

Neptune 58191-03-14 05:17 G 22974958.55 22974958.72 22974958.91 0.0088 0.0029

Neptune 58191-06-10 08:53 G 22975046.68 22975046.87 22975047.06 0.0088 0.0018

Neptune 58191-09-06 12:14 G 22975134.82 22975135.01 22975135.20 0.0088 0.0007

Neptune 58191-12-03 15:36 G 22975222.96 22975223.15 22975223.34 0.0088 0.0004

Neptune 58192-02-29 18:58 G 22975311.10 22975311.29 22975311.48 0.0088 0.0015

Neptune 58192-05-27 22:05 G 22975399.25 22975399.42 22975399.61 0.0088 0.0026

Neptune 58192-08-24 01:26 G 22975487.40 22975487.56 22975487.75 0.0088 0.0037

Neptune 58192-11-20 05:17 G 22975575.56 22975575.72 22975575.88 0.0088 0.0048

Neptune 58193-02-16 08:38 G 22975663.72 22975663.86 22975664.00 0.0088 0.0059

Neptune 58193-05-15 12:00 G 22975751.88 22975752.00 22975752.12 0.0088 0.0070

Neptune 58193-08-11 15:22 G 22975840.07 22975840.14 22975840.22 0.0088 0.0081

Jupiter 58194-03-23 19:41 G 22976064.22 22976064.32 22976064.43 0.0534 0.0296

Jupiter 58194-06-21 03:22 G 22976153.56 22976153.64 22976153.72 0.0531 0.0399

Moon 58195-03-09 16:34 G 22976415.11 22976415.19 22976415.28 0.2684 0.1749

Earth 58195-03-09 16:48 G 22976415.12 22976415.20 22976415.29 0.2677 0.1662 *

Mars 58195-11-26 14:24 G 22976676.98 22976677.10 22976677.22 0.1675 0.0099

Saturn 58196-03-30 18:29 G 22976802.21 22976802.27 22976802.36 0.0272 0.0248

Saturn 58196-06-27 14:38 G 22976890.94 22976891.11 22976891.29 0.0271 0.0066

Saturn 58196-09-24 10:48 G 22976979.79 22976979.95 22976980.12 0.0271 0.0118

Mars 58198-08-25 03:50 G 22977679.52 22977679.66 22977679.80 0.1846 0.0855

Jupiter 58200-08-05 02:38 G 22978389.44 22978389.61 22978389.78 0.0496 0.0144

Venus 58202-06-03 04:48 G 22979056.67 22979056.70 22979056.73 0.3683 0.3484

Mars 58205-04-19 00:14 G 22980107.41 22980107.51 22980107.61 0.1671 0.0997

Jupiter 58206-01-10 23:17 G 22980374.41 22980374.47 22980374.53 0.0534 0.0475

Jupiter 58206-04-10 07:12 G 22980463.68 22980463.80 22980463.91 0.0531 0.0228

Venus 58207-12-17 20:10 G 22981080.24 22981080.34 22981080.44 0.3683 0.0990

Mars 58208-01-16 03:22 G 22981109.51 22981109.64 22981109.77 0.1852 0.0999

Earth 58208-03-12 11:02 G 22981165.85 22981165.96 22981166.07 0.2676 0.0456

Moon 58208-03-12 11:31 G 22981165.87 22981165.98 22981166.09 0.2681 0.0365 *

Uranus 58209-01-08 19:41 G 22981468.23 22981468.32 22981468.44 0.0140 0.0115

Uranus 58209-04-07 03:22 G 22981556.50 22981556.64 22981556.79 0.0140 0.0085

Uranus 58209-07-04 10:48 G 22981644.79 22981644.95 22981645.13 0.0140 0.0056

Uranus 58209-09-30 18:29 G 22981733.09 22981733.27 22981733.46 0.0140 0.0026

Uranus 58209-12-28 02:10 G 22981821.40 22981821.59 22981821.78 0.0140 0.0004

Uranus 58210-03-26 09:50 G 22981909.73 22981909.91 22981910.10 0.0140 0.0034

Uranus 58210-06-22 17:17 G 22981998.06 22981998.22 22981998.40 0.0140 0.0065

Earth 58210-09-14 06:29 G 22982081.63 22982081.77 22982081.92 0.2656 0.0712

Moon 58210-09-14 07:12 G 22982081.66 22982081.80 22982081.95 0.2662 0.0686 *

Uranus 58210-09-19 00:58 G 22982086.41 22982086.54 22982086.69 0.0139 0.0095

Uranus 58210-12-16 08:38 G 22982174.79 22982174.86 22982174.96 0.0139 0.0125

Saturn 58211-07-26 02:10 G 22982396.53 22982396.59 22982396.66 0.0288 0.0251

Saturn 58211-10-22 14:53 G 22982484.99 22982485.12 22982485.25 0.0289 0.0086

Saturn 58212-01-19 03:22 G 22982573.51 22982573.64 22982573.77 0.0289 0.0078

Saturn 58212-04-16 15:36 G 22982662.08 22982662.15 22982662.22 0.0290 0.0240

Jupiter 58212-05-24 00:58 G 22982699.36 22982699.54 22982699.72 0.0495 0.0054

Venus 58213-07-02 11:31 G 22983103.89 22983103.98 22983104.07 0.3682 0.1489

Jupiter 58218-01-27 10:48 G 22984773.82 22984773.95 22984774.08 0.0532 0.0054

Earth 58221-03-15 05:17 G 22985916.61 22985916.72 22985916.83 0.2675 0.0735

Moon 58221-03-15 06:00 G 22985916.64 22985916.75 22985916.85 0.2677 0.0828 *

Earth 58223-09-17 12:00 G 22986832.88 22986833.00 22986833.13 0.2657 0.1546

Moon 58223-09-17 13:26 G 22986832.95 22986833.06 22986833.17 0.2661 0.1807 *

Jupiter 58224-03-11 23:17 G 22987009.32 22987009.47 22987009.63 0.0494 0.0249

Saturn 58225-11-15 15:22 G 22987622.97 22987623.14 22987623.30 0.0271 0.0109

Mars 58226-01-05 04:34 G 22987673.59 22987673.69 22987673.79 0.1680 0.0938

Saturn 58226-02-12 11:31 G 22987711.80 22987711.98 22987712.15 0.0271 0.0075

Saturn 58226-05-12 07:41 G 22987800.78 22987800.82 22987800.88 0.0271 0.0260

Earth 58228-03-08 03:22 G 22988466.63 22988466.64 22988466.65 0.2678 0.2660

Jupiter 58229-11-15 13:41 G 22989083.95 22989084.07 22989084.20 0.0533 0.0139

Earth 58234-03-17 23:17 G 22990667.39 22990667.47 22990667.55 0.2674 0.1899

Moon 58234-03-18 00:00 G 22990667.42 22990667.50 22990667.57 0.2670 0.1938 *

Mars 58235-05-28 14:24 G 22991103.98 22991104.10 22991104.23 0.1676 0.0072

Jupiter 58235-12-29 21:36 G 22991319.32 22991319.40 22991319.47 0.0494 0.0445

Jupiter 58236-03-29 02:53 G 22991409.50 22991409.62 22991409.75 0.0496 0.0353

Mars 58238-02-24 04:19 G 22992106.56 22992106.68 22992106.81 0.1846 0.1085

Saturn 58240-12-12 06:14 G 22993128.72 22993128.76 22993128.79 0.0288 0.0275

Saturn 58241-03-10 18:43 G 22993217.15 22993217.28 22993217.40 0.0288 0.0111

Moon 58241-03-10 21:36 G 22993217.31 22993217.40 22993217.49 0.2684 0.1396 *

Earth 58241-03-10 21:36 G 22993217.31 22993217.40 22993217.50 0.2677 0.1440 *

Saturn 58241-06-07 07:12 G 22993305.66 22993305.80 22993305.93 0.0289 0.0053

Jupiter 58241-09-03 17:17 G 22993394.12 22993394.22 22993394.33 0.0534 0.0314

Saturn 58241-09-03 19:26 G 22993394.22 22993394.31 22993394.40 0.0289 0.0214 *

Jupiter 58241-12-02 00:58 G 22993483.46 22993483.54 22993483.63 0.0531 0.0384

Moon 58243-09-12 07:26 G 22994132.76 22994132.81 22994132.86 0.2661 0.2507

Earth 58243-09-12 07:41 G 22994132.78 22994132.82 22994132.87 0.2655 0.2502 *

Venus 58243-12-14 20:10 G 22994226.18 22994226.34 22994226.49 0.3688 0.0382

Mars 58244-10-18 00:14 G 22994534.41 22994534.51 22994534.62 0.1671 0.0859

Mars 58247-07-17 03:36 G 22995536.52 22995536.65 22995536.79 0.1852 0.0795

Jupiter 58248-01-16 00:00 G 22995719.33 22995719.50 22995719.67 0.0495 0.0137

Uranus 58252-07-06 15:36 G 22997353.11 22997353.15 22997353.21 0.0138 0.0128

Uranus 58252-10-02 19:12 G 22997441.22 22997441.30 22997441.38 0.0138 0.0107

Uranus 58252-12-29 22:34 G 22997529.34 22997529.44 22997529.55 0.0138 0.0087

Uranus 58253-03-28 01:55 G 22997617.47 22997617.58 22997617.70 0.0138 0.0066

Jupiter 58253-06-22 21:22 G 22997704.34 22997704.39 22997704.44 0.0534 0.0484

Uranus 58253-06-24 05:17 G 22997705.60 22997705.72 22997705.85 0.0138 0.0046

Jupiter 58253-09-20 05:17 G 22997793.60 22997793.72 22997793.84 0.0532 0.0222

Uranus 58253-09-20 08:38 G 22997793.73 22997793.86 22997794.00 0.0138 0.0026 *

Uranus 58253-12-17 12:14 G 22997881.87 22997882.01 22997882.14 0.0138 0.0007

Earth 58254-03-13 16:05 G 22997968.05 22997968.17 22997968.28 0.2676 0.0241

Moon 58254-03-13 16:34 G 22997968.08 22997968.19 22997968.30 0.2681 0.0222 *

Uranus 58254-03-15 15:22 G 22997970.01 22997970.14 22997970.28 0.0138 0.0016

Uranus 58254-06-11 18:43 G 22998058.16 22998058.28 22998058.41 0.0139 0.0036

Uranus 58254-09-07 22:05 G 22998146.30 22998146.42 22998146.55 0.0139 0.0056

Uranus 58254-12-05 01:26 G 22998234.45 22998234.56 22998234.67 0.0139 0.0077

Uranus 58255-03-03 04:48 G 22998322.61 22998322.70 22998322.80 0.0139 0.0097

Saturn 58255-04-04 15:22 G 22998355.00 22998355.14 22998355.29 0.0271 0.0155

Uranus 58255-05-30 08:10 G 22998410.77 22998410.84 22998410.91 0.0139 0.0117

Saturn 58255-07-02 11:31 G 22998443.80 22998443.98 22998444.16 0.0271 0.0027

Uranus 58255-08-26 11:31 G 22998498.96 22998498.98 22998499.00 0.0139 0.0137

Saturn 58255-09-29 07:41 G 22998532.71 22998532.82 22998532.93 0.0271 0.0211

Earth 58256-09-14 12:58 G 22998883.88 22998884.04 22998884.19 0.2656 0.0319

Moon 58256-09-14 13:55 G 22998883.93 22998884.08 22998884.23 0.2661 0.0216 *

Venus 58259-01-08 02:10 G 22999729.51 22999729.59 22999729.66 0.3683 0.2564

Jupiter 58259-11-03 22:19 G 23000029.25 23000029.43 23000029.60 0.0495 0.0062

Venus 58264-07-23 17:31 G 23001753.13 23001753.23 23001753.33 0.3682 0.0110

Mars 58265-07-06 04:48 G 23002100.60 23002100.70 23002100.79 0.1680 0.1079

Jupiter 58265-07-09 09:07 G 23002103.75 23002103.88 23002104.01 0.0532 0.0050

Earth 58267-03-16 10:05 G 23002718.82 23002718.92 23002719.03 0.2675 0.0959

Moon 58267-03-16 10:48 G 23002718.85 23002718.95 23002719.05 0.2675 0.1062 *

Earth 58269-09-17 18:29 G 23003635.17 23003635.27 23003635.37 0.2658 0.1967

Moon 58269-09-17 19:55 G 23003635.24 23003635.33 23003635.43 0.2661 0.2043 *

Venus 58270-02-06 08:53 G 23003776.79 23003776.87 23003776.94 0.3682 0.2398

Saturn 58270-07-28 20:10 G 23003949.23 23003949.34 23003949.45 0.0289 0.0164

Neptune 58270-07-30 02:24 G 23003950.56 23003950.60 23003950.66 0.0089 0.0082

Saturn 58270-10-25 08:38 G 23004037.73 23004037.86 23004038.00 0.0289 0.0003

Neptune 58270-10-26 03:50 G 23004038.60 23004038.66 23004038.75 0.0089 0.0074

Saturn 58271-01-21 20:53 G 23004126.27 23004126.37 23004126.49 0.0290 0.0164

Neptune 58271-01-22 05:17 G 23004126.64 23004126.72 23004126.82 0.0089 0.0066

Neptune 58271-04-20 06:43 G 23004214.69 23004214.78 23004214.89 0.0089 0.0058

Neptune 58271-07-17 08:10 G 23004302.74 23004302.84 23004302.96 0.0089 0.0050

Jupiter 58271-08-22 20:38 G 23004339.21 23004339.36 23004339.51 0.0495 0.0257

Neptune 58271-10-13 09:36 G 23004390.79 23004390.90 23004391.03 0.0089 0.0042

Neptune 58272-01-09 11:02 G 23004478.84 23004478.96 23004479.09 0.0089 0.0034

Neptune 58272-04-06 12:29 G 23004566.90 23004567.02 23004567.16 0.0089 0.0026

Neptune 58272-07-03 13:55 G 23004654.95 23004655.08 23004655.22 0.0089 0.0018

Neptune 58272-09-29 15:22 G 23004743.01 23004743.14 23004743.28 0.0089 0.0010

Neptune 58272-12-26 16:48 G 23004831.07 23004831.20 23004831.34 0.0089 0.0003

Neptune 58273-03-24 18:14 G 23004919.13 23004919.26 23004919.40 0.0089 0.0006

Neptune 58273-06-20 19:41 G 23005007.19 23005007.32 23005007.45 0.0089 0.0014

Neptune 58273-09-16 20:53 G 23005095.25 23005095.37 23005095.51 0.0089 0.0022

Neptune 58273-12-13 22:19 G 23005183.31 23005183.43 23005183.56 0.0089 0.0030

Moon 58274-03-09 07:41 G 23005268.78 23005268.82 23005268.87 0.2684 0.2442

Earth 58274-03-09 08:24 G 23005268.80 23005268.85 23005268.89 0.2678 0.2432 *

Neptune 58274-03-11 23:46 G 23005271.37 23005271.49 23005271.61 0.0089 0.0037

Neptune 58274-06-08 01:12 G 23005359.43 23005359.55 23005359.66 0.0089 0.0045

Neptune 58274-09-04 02:24 G 23005447.50 23005447.60 23005447.71 0.0089 0.0053

Mars 58274-11-26 14:24 G 23005530.98 23005531.10 23005531.23 0.1675 0.0177

Neptune 58274-12-01 03:36 G 23005535.56 23005535.65 23005535.76 0.0089 0.0061

Neptune 58275-02-27 05:02 G 23005623.63 23005623.71 23005623.80 0.0089 0.0069

Neptune 58275-05-26 06:29 G 23005711.71 23005711.77 23005711.84 0.0089 0.0076

Neptune 58275-08-22 07:41 G 23005799.79 23005799.82 23005799.87 0.0089 0.0084

Jupiter 58277-04-27 12:29 G 23006413.90 23006414.02 23006414.15 0.0533 0.0131

Mars 58277-08-25 04:34 G 23006533.58 23006533.69 23006533.80 0.1846 0.1268

Earth 58280-03-18 04:05 G 23007469.61 23007469.67 23007469.74 0.2673 0.2118

Moon 58280-03-18 04:48 G 23007469.64 23007469.70 23007469.76 0.2669 0.2206 *

Pluto 58283-05-02 15:36 G 23008610.09 23008610.15 23008610.22 0.0067 0.0059

Jupiter 58283-06-10 19:12 G 23008649.23 23008649.30 23008649.38 0.0494 0.0447

Pluto 58283-07-29 15:50 G 23008698.08 23008698.16 23008698.28 0.0067 0.0049

Jupiter 58283-09-09 00:43 G 23008739.40 23008739.53 23008739.66 0.0496 0.0352

Pluto 58283-10-25 16:34 G 23008786.09 23008786.19 23008786.32 0.0067 0.0038

Pluto 58284-01-21 17:17 G 23008874.10 23008874.22 23008874.36 0.0067 0.0027

Mars 58284-04-18 00:14 G 23008961.40 23008961.51 23008961.63 0.1671 0.0722

Pluto 58284-04-18 18:00 G 23008962.12 23008962.25 23008962.39 0.0067 0.0016

Pluto 58284-07-15 18:43 G 23009050.14 23009050.28 23009050.42 0.0067 0.0005

Saturn 58284-08-21 15:50 G 23009087.04 23009087.16 23009087.28 0.0272 0.0199

Pluto 58284-10-11 19:26 G 23009138.17 23009138.31 23009138.45 0.0067 0.0006

Saturn 58284-11-18 12:00 G 23009175.82 23009176.00 23009176.18 0.0271 0.0018

Pluto 58285-01-07 19:55 G 23009226.20 23009226.33 23009226.47 0.0067 0.0017

Saturn 58285-02-15 08:10 G 23009264.70 23009264.84 23009264.98 0.0271 0.0167

Pluto 58285-04-05 20:38 G 23009314.23 23009314.36 23009314.49 0.0067 0.0028

Pluto 58285-07-02 20:53 G 23009402.27 23009402.37 23009402.50 0.0067 0.0040

Pluto 58285-09-28 21:50 G 23009490.32 23009490.41 23009490.50 0.0068 0.0050

Pluto 58285-12-25 22:05 G 23009578.38 23009578.42 23009578.49 0.0068 0.0062

Mars 58287-01-15 04:19 G 23009963.54 23009963.68 23009963.83 0.1852 0.0556

Earth 58287-03-12 02:38 G 23010019.51 23010019.61 23010019.71 0.2677 0.1202

Moon 58287-03-12 02:38 G 23010019.52 23010019.61 23010019.71 0.2683 0.1258 *

Jupiter 58289-02-13 15:22 G 23010724.04 23010724.14 23010724.25 0.0534 0.0324

Jupiter 58289-05-13 23:02 G 23010813.37 23010813.46 23010813.55 0.0531 0.0374

Earth 58289-09-12 14:10 G 23010935.00 23010935.09 23010935.18 0.2655 0.2102

Moon 58289-09-12 14:10 G 23010935.01 23010935.09 23010935.17 0.2661 0.2177 *

Uranus 58292-11-01 20:24 G 23012081.30 23012081.35 23012081.41 0.0140 0.0133

Uranus 58293-01-29 04:05 G 23012169.55 23012169.67 23012169.80 0.0140 0.0104

Uranus 58293-04-27 11:31 G 23012257.83 23012257.98 23012258.15 0.0140 0.0074

Uranus 58293-07-24 19:12 G 23012346.12 23012346.30 23012346.48 0.0140 0.0044

Mars 58293-09-08 10:05 G 23012391.89 23012391.92 23012391.94 0.1666 0.1618

Uranus 58293-10-21 02:53 G 23012434.43 23012434.62 23012434.81 0.0140 0.0014

Uranus 58294-01-17 10:34 G 23012522.75 23012522.94 23012523.13 0.0140 0.0016

Uranus 58294-04-15 18:00 G 23012611.08 23012611.25 23012611.44 0.0140 0.0046

Uranus 58294-07-13 01:26 G 23012699.42 23012699.56 23012699.74 0.0140 0.0077

Uranus 58294-10-09 09:07 G 23012787.78 23012787.88 23012788.02 0.0140 0.0107

Uranus 58295-01-05 17:02 G 23012876.18 23012876.21 23012876.26 0.0139 0.0137

Jupiter 58295-06-27 22:34 G 23013049.26 23013049.44 23013049.61 0.0495 0.0146

Saturn 58299-12-16 00:00 G 23014681.40 23014681.50 23014681.60 0.0288 0.0188

Saturn 58300-03-14 12:29 G 23014769.89 23014770.02 23014770.16 0.0289 0.0025

Earth 58300-03-14 20:53 G 23014770.26 23014770.37 23014770.48 0.2676 0.0019

Moon 58300-03-14 21:22 G 23014770.28 23014770.39 23014770.50 0.2681 0.0120 *

Saturn 58300-06-11 00:58 G 23014858.42 23014858.54 23014858.66 0.0289 0.0138

Venus 58300-07-21 22:05 G 23014899.34 23014899.42 23014899.50 0.3688 0.3162

Jupiter 58300-12-03 18:58 G 23015034.25 23015034.29 23015034.33 0.0534 0.0503

Jupiter 58301-03-03 02:53 G 23015123.50 23015123.62 23015123.74 0.0532 0.0205

Earth 58302-09-16 19:12 G 23015686.15 23015686.30 23015686.46 0.2656 0.0113

Moon 58302-09-16 20:24 G 23015686.20 23015686.35 23015686.50 0.2662 0.0228 *

Mars 58305-01-05 04:48 G 23016527.61 23016527.70 23016527.78 0.1680 0.1216

Jupiter 58307-04-16 19:41 G 23017359.14 23017359.32 23017359.49 0.0495 0.0071

Jupiter 58312-12-20 07:12 G 23019433.67 23019433.80 23019433.93 0.0533 0.0042

Earth 58313-03-17 14:53 G 23019521.02 23019521.12 23019521.22 0.2675 0.1181

Moon 58313-03-17 15:36 G 23019521.06 23019521.15 23019521.25 0.2673 0.1222 *

Saturn 58314-01-09 16:48 G 23019819.12 23019819.20 23019819.28 0.0272 0.0239

Saturn 58314-04-08 12:43 G 23019907.85 23019908.03 23019908.20 0.0271 0.0058

Mars 58314-05-28 14:38 G 23019957.99 23019958.11 23019958.23 0.1675 0.0319

Saturn 58314-07-06 08:38 G 23019996.70 23019996.86 23019997.02 0.0271 0.0125

Venus 58315-08-15 23:31 G 23020402.39 23020402.48 23020402.57 0.3683 0.1626

Earth 58315-09-20 00:58 G 23020437.47 23020437.54 23020437.61 0.2658 0.2373

Moon 58315-09-20 02:24 G 23020437.57 23020437.60 23020437.63 0.2659 0.2588 *

Mars 58317-02-24 05:02 G 23020960.63 23020960.71 23020960.80 0.1846 0.1503

Jupiter 58319-02-02 17:46 G 23021669.10 23021669.24 23021669.40 0.0494 0.0267

Moon 58320-03-10 12:43 G 23022070.98 23022071.03 23022071.09 0.2684 0.2304

Earth 58320-03-10 13:12 G 23022070.99 23022071.05 23022071.11 0.2678 0.2195 *

Venus 58321-02-28 14:53 G 23022426.02 23022426.12 23022426.22 0.3682 0.0865

Mars 58323-10-19 00:29 G 23023388.40 23023388.52 23023388.63 0.1671 0.0583

Jupiter 58324-10-08 10:48 G 23023743.83 23023743.95 23023744.08 0.0533 0.0134

Earth 58326-03-20 08:53 G 23024271.82 23024271.87 23024271.92 0.2673 0.2336

Moon 58326-03-20 09:22 G 23024271.85 23024271.89 23024271.94 0.2669 0.2389 *

Mars 58326-07-17 04:34 G 23024390.54 23024390.69 23024390.84 0.1852 0.0373

Venus 58326-09-14 06:00 G 23024449.71 23024449.75 23024449.80 0.3682 0.3309

Saturn 58329-05-05 01:26 G 23025413.49 23025413.56 23025413.63 0.0288 0.0242

Saturn 58329-08-01 14:10 G 23025501.96 23025502.09 23025502.22 0.0289 0.0078

Saturn 58329-10-29 02:24 G 23025590.48 23025590.60 23025590.73 0.0289 0.0086

Saturn 58330-01-25 14:38 G 23025679.05 23025679.11 23025679.18 0.0290 0.0249

Jupiter 58330-11-21 16:19 G 23025979.12 23025979.18 23025979.25 0.0494 0.0458

Jupiter 58331-02-19 21:50 G 23026069.28 23026069.41 23026069.54 0.0496 0.0341

Mars 58333-03-10 10:05 G 23026818.87 23026818.92 23026818.97 0.1666 0.1481

Earth 58333-03-13 07:26 G 23026821.71 23026821.81 23026821.92 0.2677 0.0980

Moon 58333-03-13 07:41 G 23026821.72 23026821.82 23026821.93 0.2683 0.0898 *

Earth 58335-09-14 20:38 G 23027737.24 23027737.36 23027737.47 0.2655 0.1713

Moon 58335-09-14 20:53 G 23027737.25 23027737.37 23027737.49 0.2661 0.1605 *

Jupiter 58336-07-27 14:10 G 23028053.99 23028054.09 23028054.20 0.0533 0.0316

Uranus 58336-07-27 23:31 G 23028054.42 23028054.48 23028054.55 0.0138 0.0119

Uranus 58336-10-24 02:53 G 23028142.53 23028142.62 23028142.72 0.0138 0.0099

Jupiter 58336-10-24 21:50 G 23028143.32 23028143.41 23028143.50 0.0531 0.0382

Uranus 58337-01-20 06:14 G 23028230.65 23028230.76 23028230.87 0.0138 0.0079

Uranus 58337-04-18 09:36 G 23028318.78 23028318.90 23028319.03 0.0138 0.0058

Uranus 58337-07-15 12:58 G 23028406.92 23028407.04 23028407.18 0.0138 0.0038

Uranus 58337-10-11 16:34 G 23028495.05 23028495.19 23028495.32 0.0138 0.0018

Uranus 58338-01-07 19:55 G 23028583.19 23028583.33 23028583.46 0.0138 0.0005

Uranus 58338-04-05 23:17 G 23028671.34 23028671.47 23028671.60 0.0138 0.0024

Uranus 58338-07-03 02:38 G 23028759.48 23028759.61 23028759.73 0.0139 0.0044

Uranus 58338-09-29 05:46 G 23028847.63 23028847.74 23028847.86 0.0139 0.0064

Uranus 58338-12-26 09:07 G 23028935.78 23028935.88 23028935.99 0.0139 0.0084

Uranus 58339-03-24 12:14 G 23029023.94 23029024.01 23029024.11 0.0139 0.0105

Uranus 58339-06-20 15:36 G 23029112.11 23029112.15 23029112.22 0.0139 0.0125

Jupiter 58342-12-08 20:10 G 23030379.17 23030379.34 23030379.51 0.0495 0.0142

Saturn 58343-08-26 12:43 G 23030639.87 23030640.03 23030640.20 0.0271 0.0105

Saturn 58343-11-23 08:53 G 23030728.70 23030728.87 23030729.04 0.0271 0.0078

Saturn 58344-02-20 05:02 G 23030817.68 23030817.71 23030817.76 0.0270 0.0262

Mars 58344-07-06 04:48 G 23030954.62 23030954.70 23030954.77 0.1680 0.1346

Earth 58346-03-16 01:41 G 23031572.46 23031572.57 23031572.69 0.2676 0.0240

Moon 58346-03-16 02:24 G 23031572.49 23031572.60 23031572.71 0.2679 0.0233 *

Jupiter 58348-05-15 17:02 G 23032364.17 23032364.21 23032364.24 0.0534 0.0511

Jupiter 58348-08-13 00:58 G 23032453.42 23032453.54 23032453.66 0.0532 0.0196

Earth 58348-09-17 01:41 G 23032488.42 23032488.57 23032488.72 0.2657 0.0509

Moon 58348-09-17 02:53 G 23032488.47 23032488.62 23032488.77 0.2662 0.0588 *

Venus 58351-08-12 15:07 G 23033548.01 23033548.13 23033548.24 0.3688 0.2424

Mars 58353-11-26 14:38 G 23034384.99 23034385.11 23034385.23 0.1676 0.0455

Neptune 58354-09-26 09:50 G 23034688.85 23034688.91 23034689.00 0.0088 0.0080

Jupiter 58354-09-26 18:00 G 23034689.07 23034689.25 23034689.43 0.0495 0.0061

Neptune 58354-12-23 13:12 G 23034776.95 23034777.05 23034777.18 0.0088 0.0070

Neptune 58355-03-21 16:19 G 23034865.06 23034865.18 23034865.34 0.0088 0.0059

Neptune 58355-06-17 19:55 G 23034953.18 23034953.33 23034953.49 0.0088 0.0048

Neptune 58355-09-13 23:17 G 23035041.30 23035041.47 23035041.65 0.0088 0.0037

Neptune 58355-12-11 02:24 G 23035129.43 23035129.60 23035129.79 0.0088 0.0027

Neptune 58356-03-08 06:00 G 23035217.57 23035217.75 23035217.94 0.0088 0.0016

Neptune 58356-06-04 09:22 G 23035305.70 23035305.89 23035306.08 0.0088 0.0005

Mars 58356-08-25 05:31 G 23035387.68 23035387.73 23035387.79 0.1846 0.1719

Neptune 58356-08-31 12:43 G 23035393.84 23035394.03 23035394.22 0.0088 0.0006

Neptune 58356-11-27 16:05 G 23035481.99 23035482.17 23035482.36 0.0088 0.0017

Neptune 58357-02-23 19:26 G 23035570.13 23035570.31 23035570.50 0.0088 0.0027

Neptune 58357-05-22 22:48 G 23035658.28 23035658.45 23035658.63 0.0088 0.0038

Neptune 58357-08-19 02:10 G 23035746.44 23035746.59 23035746.75 0.0088 0.0049

Neptune 58357-11-15 05:31 G 23035834.60 23035834.73 23035834.88 0.0088 0.0060

Neptune 58358-02-11 08:53 G 23035922.77 23035922.87 23035922.99 0.0088 0.0071

Neptune 58358-05-10 12:14 G 23036010.96 23036011.01 23036011.09 0.0088 0.0082

Saturn 58358-09-22 05:17 G 23036145.67 23036145.72 23036145.77 0.0288 0.0267

Saturn 58358-12-19 17:46 G 23036234.12 23036234.24 23036234.37 0.0289 0.0103

Saturn 58359-03-18 06:14 G 23036322.63 23036322.76 23036322.89 0.0289 0.0061

Earth 58359-03-18 19:55 G 23036323.23 23036323.33 23036323.42 0.2674 0.1401

Moon 58359-03-18 20:38 G 23036323.27 23036323.36 23036323.45 0.2673 0.1541 *

Saturn 58359-06-14 18:29 G 23036411.19 23036411.27 23036411.36 0.0289 0.0224

Jupiter 58360-06-01 04:48 G 23036763.57 23036763.70 23036763.83 0.0533 0.0024

Mars 58363-04-19 00:29 G 23037815.40 23037815.52 23037815.64 0.1671 0.0438

Mars 58366-01-15 05:02 G 23038817.56 23038817.71 23038817.86 0.1852 0.0148

Moon 58366-03-11 17:46 G 23038873.17 23038873.24 23038873.32 0.2684 0.1980

Earth 58366-03-11 18:00 G 23038873.18 23038873.25 23038873.33 0.2678 0.1965 *

Jupiter 58366-07-15 15:07 G 23038998.99 23038999.13 23038999.28 0.0494 0.0275

Venus 58366-09-06 05:17 G 23039051.68 23039051.72 23039051.77 0.3683 0.3203

Pluto 58370-05-18 03:22 G 23040401.63 23040401.64 23040401.66 0.0078 0.0077

Pluto 58370-08-14 05:17 G 23040489.61 23040489.72 23040489.86 0.0077 0.0056

Pluto 58370-11-10 07:41 G 23040577.66 23040577.82 23040577.98 0.0077 0.0034

Pluto 58371-02-06 09:50 G 23040665.74 23040665.91 23040666.09 0.0077 0.0013

Pluto 58371-05-05 12:00 G 23040753.82 23040754.00 23040754.18 0.0077 0.0008

Pluto 58371-08-01 13:55 G 23040841.92 23040842.08 23040842.26 0.0077 0.0029

Pluto 58371-10-28 16:05 G 23040930.04 23040930.17 23040930.32 0.0077 0.0050

Pluto 58372-01-24 18:00 G 23041018.20 23041018.25 23041018.33 0.0077 0.0071

Jupiter 58372-03-20 08:53 G 23041073.74 23041073.87 23041073.99 0.0533 0.0143

Earth 58372-03-20 13:41 G 23041074.04 23041074.07 23041074.10 0.2673 0.2550

Moon 58372-03-20 14:10 G 23041074.06 23041074.09 23041074.12 0.2668 0.2560 *

Venus 58372-03-21 20:53 G 23041075.27 23041075.37 23041075.47 0.3682 0.0695

Mars 58372-09-08 10:05 G 23041245.85 23041245.92 23041246.00 0.1666 0.1339

Saturn 58373-01-12 13:55 G 23041371.93 23041372.08 23041372.24 0.0271 0.0141

Saturn 58373-04-11 10:05 G 23041460.74 23041460.92 23041461.10 0.0271 0.0041

Saturn 58373-07-09 06:00 G 23041549.66 23041549.75 23041549.86 0.0270 0.0224

Uranus 58376-11-23 04:19 G 23042782.61 23042782.68 23042782.79 0.0140 0.0123

Uranus 58377-02-19 12:00 G 23042870.87 23042871.00 23042871.15 0.0140 0.0092

Uranus 58377-05-18 19:41 G 23042959.16 23042959.32 23042959.49 0.0140 0.0062

Uranus 58377-08-15 03:22 G 23043047.46 23043047.64 23043047.83 0.0140 0.0032

Venus 58377-10-05 12:14 G 23043098.92 23043099.01 23043099.10 0.3682 0.1787

Uranus 58377-11-11 11:02 G 23043135.77 23043135.96 23043136.15 0.0140 0.0003

Uranus 58378-02-07 18:29 G 23043224.09 23043224.27 23043224.46 0.0140 0.0028

Jupiter 58378-05-03 13:41 G 23043309.02 23043309.07 23043309.13 0.0494 0.0467

Uranus 58378-05-07 02:10 G 23043312.42 23043312.59 23043312.77 0.0140 0.0058

Jupiter 58378-08-01 18:58 G 23043399.16 23043399.29 23043399.43 0.0496 0.0330

Uranus 58378-08-03 09:50 G 23043400.77 23043400.91 23043401.06 0.0140 0.0088

Uranus 58378-10-30 17:17 G 23043489.14 23043489.22 23043489.34 0.0140 0.0119

Earth 58379-03-14 12:29 G 23043623.91 23043624.02 23043624.13 0.2677 0.0747

Moon 58379-03-14 12:43 G 23043623.92 23043624.03 23043624.14 0.2683 0.0766 *

Earth 58381-09-15 02:53 G 23044539.49 23044539.62 23044539.75 0.2655 0.1310

Moon 58381-09-15 03:36 G 23044539.52 23044539.65 23044539.78 0.2661 0.1353 *

Mars 58384-01-05 04:48 G 23045381.64 23045381.70 23045381.75 0.1680 0.1484

Jupiter 58384-01-07 12:29 G 23045383.92 23045384.02 23045384.13 0.0534 0.0319

Jupiter 58384-04-05 20:10 G 23045473.25 23045473.34 23045473.43 0.0531 0.0379

Saturn 58388-05-07 18:58 G 23046966.18 23046966.29 23046966.41 0.0289 0.0159

Saturn 58388-08-04 07:41 G 23047054.68 23047054.82 23047054.95 0.0289 0.0009

Saturn 58388-10-31 19:55 G 23047143.22 23047143.33 23047143.44 0.0290 0.0169

Jupiter 58390-05-20 17:17 G 23047709.04 23047709.22 23047709.39 0.0496 0.0130

Earth 58392-03-16 06:43 G 23048374.67 23048374.78 23048374.89 0.2675 0.0453

Moon 58392-03-16 07:12 G 23048374.70 23048374.80 23048374.91 0.2677 0.0594 *

Mars 58393-05-27 14:38 G 23048811.99 23048812.11 23048812.22 0.1675 0.0588

Earth 58394-09-18 08:10 G 23049290.70 23049290.84 23049290.99 0.2657 0.0908

Moon 58394-09-18 09:22 G 23049290.75 23049290.89 23049291.03 0.2661 0.1104 *

Jupiter 58395-10-26 15:50 G 23049694.12 23049694.16 23049694.21 0.0534 0.0501

Jupiter 58396-01-24 00:00 G 23049783.38 23049783.50 23049783.62 0.0532 0.0206

Jupiter 58402-03-08 15:50 G 23052018.98 23052019.16 23052019.33 0.0495 0.0065

Saturn 58402-06-01 13:55 G 23052103.95 23052104.08 23052104.20 0.0271 0.0191

Saturn 58402-08-29 09:50 G 23052192.73 23052192.91 23052193.09 0.0271 0.0010

Mars 58402-10-18 00:29 G 23052242.40 23052242.52 23052242.64 0.1671 0.0304

Saturn 58402-11-26 06:00 G 23052281.61 23052281.75 23052281.89 0.0270 0.0174

Earth 58405-03-19 00:43 G 23053125.44 23053125.53 23053125.62 0.2674 0.1617

Moon 58405-03-19 01:26 G 23053125.47 23053125.56 23053125.65 0.2672 0.1639 *

Mars 58405-07-16 05:31 G 23053244.58 23053244.73 23053244.88 0.1852 0.0077

Jupiter 58407-11-12 02:53 G 23054093.49 23054093.62 23054093.75 0.0532 0.0024

Venus 58408-03-18 17:02 G 23054221.05 23054221.21 23054221.36 0.3688 0.0346

Mars 58412-03-09 10:19 G 23055672.84 23055672.93 23055673.01 0.1666 0.1197

Moon 58412-03-11 22:48 G 23055675.37 23055675.45 23055675.54 0.2684 0.1753

Earth 58412-03-11 23:02 G 23055675.37 23055675.46 23055675.54 0.2678 0.1731 *

Jupiter 58413-12-25 13:55 G 23056328.93 23056329.08 23056329.23 0.0494 0.0263

Mars 58414-12-06 05:17 G 23056674.67 23056674.72 23056674.76 0.1858 0.1776

Saturn 58417-09-24 22:34 G 23057698.34 23057698.44 23057698.55 0.0288 0.0186

Saturn 58417-12-22 11:17 G 23057786.83 23057786.97 23057787.10 0.0289 0.0022

Saturn 58418-03-20 23:46 G 23057875.37 23057875.49 23057875.60 0.0289 0.0142

Jupiter 58419-08-31 06:43 G 23058403.65 23058403.78 23058403.90 0.0533 0.0159

Uranus 58420-05-21 03:50 G 23058667.62 23058667.66 23058667.69 0.0138 0.0132

Uranus 58420-08-17 06:58 G 23058755.72 23058755.79 23058755.88 0.0138 0.0112

Uranus 58420-11-13 10:34 G 23058843.84 23058843.94 23058844.04 0.0138 0.0091

Uranus 58421-02-09 13:55 G 23058931.97 23058932.08 23058932.20 0.0138 0.0071

Uranus 58421-05-08 17:17 G 23059020.10 23059020.22 23059020.35 0.0138 0.0051

Uranus 58421-08-04 20:38 G 23059108.23 23059108.36 23059108.50 0.0138 0.0031

Uranus 58421-11-01 00:00 G 23059196.37 23059196.50 23059196.64 0.0138 0.0011

Uranus 58422-01-28 03:22 G 23059284.51 23059284.64 23059284.78 0.0138 0.0011

Uranus 58422-04-26 06:43 G 23059372.65 23059372.78 23059372.91 0.0138 0.0031

Uranus 58422-07-23 10:05 G 23059460.80 23059460.92 23059461.05 0.0138 0.0051

Uranus 58422-10-19 13:26 G 23059548.95 23059549.06 23059549.17 0.0139 0.0071

Uranus 58423-01-15 16:34 G 23059637.10 23059637.19 23059637.30 0.0139 0.0092

Venus 58423-04-13 02:53 G 23059724.54 23059724.62 23059724.70 0.3683 0.2259

Uranus 58423-04-13 19:55 G 23059725.26 23059725.33 23059725.41 0.0139 0.0112

Mars 58423-07-06 04:48 G 23059808.67 23059808.70 23059808.73 0.1680 0.1620

Uranus 58423-07-10 23:17 G 23059813.44 23059813.47 23059813.51 0.0139 0.0132

Earth 58425-03-14 17:17 G 23060426.11 23060426.22 23060426.33 0.2677 0.0523

Moon 58425-03-14 17:46 G 23060426.13 23060426.24 23060426.35 0.2683 0.0451 *

Jupiter 58425-10-13 11:02 G 23060638.92 23060638.96 23060639.02 0.0493 0.0474

Jupiter 58426-01-11 16:19 G 23060729.05 23060729.18 23060729.32 0.0496 0.0322

Earth 58427-09-16 09:07 G 23061341.74 23061341.88 23061342.03 0.2655 0.0925

Moon 58427-09-16 09:50 G 23061341.77 23061341.91 23061342.06 0.2662 0.0750 *

Venus 58428-10-26 18:14 G 23061748.16 23061748.26 23061748.36 0.3682 0.0250

Jupiter 58431-06-19 10:34 G 23062713.84 23062713.94 23062714.05 0.0534 0.0328

Jupiter 58431-09-16 18:29 G 23062803.18 23062803.27 23062803.36 0.0531 0.0373

Saturn 58431-10-19 15:22 G 23062836.04 23062836.14 23062836.24 0.0272 0.0225

Saturn 58432-01-16 11:02 G 23062924.79 23062924.96 23062925.14 0.0271 0.0045

Saturn 58432-04-14 07:12 G 23063013.65 23063013.80 23063013.96 0.0271 0.0138

Mars 58432-11-25 14:38 G 23063239.00 23063239.11 23063239.22 0.1675 0.0728

Venus 58434-05-12 09:36 G 23063771.83 23063771.90 23063771.96 0.3682 0.2703

Neptune 58435-01-29 00:00 G 23064033.50 23064033.50 23064033.51 0.0089 0.0089

Neptune 58435-04-27 01:12 G 23064121.51 23064121.55 23064121.62 0.0089 0.0082

Neptune 58435-07-24 02:38 G 23064209.55 23064209.61 23064209.70 0.0089 0.0074

Neptune 58435-10-20 04:05 G 23064297.59 23064297.67 23064297.78 0.0089 0.0066

Neptune 58436-01-16 05:46 G 23064385.64 23064385.74 23064385.85 0.0089 0.0057

Neptune 58436-04-13 07:12 G 23064473.69 23064473.80 23064473.92 0.0089 0.0049

Neptune 58436-07-10 08:38 G 23064561.75 23064561.86 23064561.99 0.0089 0.0041

Neptune 58436-10-06 10:05 G 23064649.80 23064649.92 23064650.05 0.0089 0.0033

Neptune 58437-01-02 11:31 G 23064737.85 23064737.98 23064738.11 0.0089 0.0025

Neptune 58437-03-31 12:58 G 23064825.91 23064826.04 23064826.17 0.0089 0.0017

Neptune 58437-06-27 14:24 G 23064913.97 23064914.10 23064914.23 0.0089 0.0009

Neptune 58437-09-23 15:50 G 23065002.02 23065002.16 23065002.29 0.0089 0.0001

Jupiter 58437-10-30 14:24 G 23065038.93 23065039.10 23065039.28 0.0495 0.0122

Neptune 58437-12-20 17:17 G 23065090.08 23065090.22 23065090.35 0.0089 0.0007

Earth 58438-03-17 11:31 G 23065176.87 23065176.98 23065177.09 0.2675 0.0672

Moon 58438-03-17 12:14 G 23065176.90 23065177.01 23065177.12 0.2676 0.0705 *

Neptune 58438-03-18 18:29 G 23065178.14 23065178.27 23065178.41 0.0089 0.0015

Neptune 58438-06-14 19:55 G 23065266.20 23065266.33 23065266.46 0.0089 0.0023

Neptune 58438-09-10 21:07 G 23065354.26 23065354.38 23065354.52 0.0089 0.0031

Neptune 58438-12-07 22:48 G 23065442.33 23065442.45 23065442.57 0.0089 0.0039

Neptune 58439-03-06 00:00 G 23065530.39 23065530.50 23065530.62 0.0089 0.0046

Neptune 58439-06-02 01:12 G 23065618.46 23065618.55 23065618.67 0.0089 0.0054

Neptune 58439-08-29 02:38 G 23065706.52 23065706.61 23065706.71 0.0089 0.0062

Neptune 58439-11-25 03:50 G 23065794.59 23065794.66 23065794.76 0.0089 0.0070

Neptune 58440-02-21 05:31 G 23065882.67 23065882.73 23065882.79 0.0089 0.0077

Neptune 58440-05-19 06:43 G 23065970.75 23065970.78 23065970.82 0.0089 0.0085

Earth 58440-09-18 14:38 G 23066092.98 23066093.11 23066093.24 0.2657 0.1324

Moon 58440-09-18 16:05 G 23066093.04 23066093.17 23066093.30 0.2659 0.1385 *

Mars 58442-04-18 00:29 G 23066669.40 23066669.52 23066669.65 0.1671 0.0165

Jupiter 58443-04-07 14:24 G 23067024.06 23067024.10 23067024.14 0.0534 0.0503

Jupiter 58443-07-05 22:19 G 23067113.31 23067113.43 23067113.55 0.0532 0.0205

Mars 58445-01-14 05:46 G 23067671.59 23067671.74 23067671.89 0.1852 0.0270

Saturn 58447-02-11 23:46 G 23068430.42 23068430.49 23068430.57 0.0288 0.0243

Saturn 58447-05-11 12:29 G 23068518.89 23068519.02 23068519.15 0.0289 0.0078

Saturn 58447-08-08 00:58 G 23068607.41 23068607.54 23068607.67 0.0289 0.0086

Saturn 58447-11-04 13:12 G 23068695.98 23068696.05 23068696.12 0.0290 0.0248

Jupiter 58449-08-18 12:58 G 23069348.86 23069349.04 23069349.22 0.0495 0.0075

Earth 58451-03-20 05:31 G 23069927.65 23069927.73 23069927.81 0.2674 0.1835

Moon 58451-03-20 06:14 G 23069927.68 23069927.76 23069927.83 0.2671 0.1970 *

Mars 58451-09-08 10:19 G 23070099.83 23070099.93 23070100.02 0.1666 0.1065

Mars 58454-06-06 05:31 G 23071101.65 23071101.73 23071101.80 0.1858 0.1581

Jupiter 58455-04-24 02:10 G 23071423.46 23071423.59 23071423.71 0.0532 0.0035

Moon 58458-03-13 03:50 G 23072477.57 23072477.66 23072477.76 0.2685 0.1532

Earth 58458-03-13 03:50 G 23072477.57 23072477.66 23072477.76 0.2678 0.1502 *

Moon 58460-09-13 10:34 G 23073392.94 23073392.94 23073392.95 0.2661 0.2653

Uranus 58460-12-13 12:14 G 23073483.90 23073484.01 23073484.12 0.0140 0.0113

Uranus 58461-03-11 19:41 G 23073572.18 23073572.32 23073572.48 0.0140 0.0083

Saturn 58461-06-04 10:19 G 23073656.77 23073656.93 23073657.10 0.0271 0.0099

Jupiter 58461-06-06 11:31 G 23073658.84 23073658.98 23073659.14 0.0494 0.0266

Uranus 58461-06-08 03:22 G 23073660.47 23073660.64 23073660.82 0.0140 0.0053

Saturn 58461-09-01 06:29 G 23073745.60 23073745.77 23073745.94 0.0271 0.0083

Uranus 58461-09-04 11:02 G 23073748.77 23073748.96 23073749.15 0.0140 0.0023

Saturn 58461-11-29 02:38 G 23073834.59 23073834.61 23073834.64 0.0270 0.0267

Uranus 58461-12-01 18:43 G 23073837.09 23073837.28 23073837.47 0.0140 0.0007

Uranus 58462-02-28 02:24 G 23073925.41 23073925.60 23073925.78 0.0140 0.0037

Uranus 58462-05-27 09:36 G 23074013.75 23074013.90 23074014.08 0.0140 0.0068

Uranus 58462-08-23 17:31 G 23074102.10 23074102.23 23074102.37 0.0140 0.0098

Uranus 58462-11-20 01:12 G 23074190.48 23074190.55 23074190.63 0.0140 0.0128

Venus 58464-10-23 18:58 G 23074894.21 23074894.29 23074894.37 0.3688 0.3153

Jupiter 58467-02-10 05:02 G 23075733.59 23075733.71 23075733.83 0.0533 0.0160

Jupiter 58467-05-10 12:29 G 23075823.02 23075823.02 23075823.02 0.0530 0.0530

Earth 58471-03-15 22:19 G 23077228.32 23077228.43 23077228.54 0.2676 0.0301

Moon 58471-03-15 22:48 G 23077228.33 23077228.45 23077228.56 0.2681 0.0274 *

Mars 58472-05-26 14:38 G 23077666.01 23077666.11 23077666.22 0.1676 0.0869

Jupiter 58473-03-25 10:05 G 23077968.86 23077968.92 23077968.98 0.0494 0.0459

Jupiter 58473-06-23 15:07 G 23078059.00 23078059.13 23078059.27 0.0496 0.0337

Earth 58473-09-16 15:36 G 23078144.00 23078144.15 23078144.30 0.2655 0.0519

Moon 58473-09-16 16:19 G 23078144.04 23078144.18 23078144.33 0.2662 0.0544 *

Saturn 58476-07-01 02:53 G 23079162.59 23079162.62 23079162.66 0.0288 0.0276

Saturn 58476-09-27 15:36 G 23079251.03 23079251.15 23079251.28 0.0289 0.0111

Saturn 58476-12-25 04:05 G 23079339.54 23079339.67 23079339.80 0.0289 0.0053

Saturn 58477-03-23 16:34 G 23079428.10 23079428.19 23079428.28 0.0290 0.0216

Jupiter 58478-11-29 08:38 G 23080043.76 23080043.86 23080043.96 0.0534 0.0339

Jupiter 58479-02-26 16:19 G 23080133.09 23080133.18 23080133.27 0.0531 0.0362

Venus 58479-11-18 00:14 G 23080397.41 23080397.51 23080397.60 0.3683 0.1319

Mars 58481-10-17 00:29 G 23081096.40 23081096.52 23081096.65 0.1671 0.0057

Earth 58484-03-17 16:19 G 23081979.08 23081979.18 23081979.29 0.2675 0.0893

Moon 58484-03-17 17:02 G 23081979.11 23081979.21 23081979.32 0.2676 0.1033 *

Mars 58484-07-15 06:14 G 23082098.61 23082098.76 23082098.90 0.1852 0.0480

Jupiter 58485-04-11 12:00 G 23082368.83 23082369.00 23082369.18 0.0495 0.0117

Venus 58485-06-02 15:36 G 23082421.05 23082421.15 23082421.24 0.3682 0.1170

Earth 58486-09-19 21:07 G 23082895.26 23082895.38 23082895.49 0.2657 0.1726

Moon 58486-09-19 22:34 G 23082895.35 23082895.44 23082895.54 0.2658 0.2004 *

Jupiter 58490-09-17 12:29 G 23084353.98 23084354.02 23084354.05 0.0535 0.0511

Saturn 58490-10-22 11:46 G 23084388.84 23084388.99 23084389.16 0.0271 0.0133

Jupiter 58490-12-15 20:24 G 23084443.24 23084443.35 23084443.48 0.0532 0.0200

Venus 58490-12-17 06:43 G 23084444.77 23084444.78 23084444.80 0.3682 0.3615

Saturn 58491-01-19 07:55 G 23084477.65 23084477.83 23084478.01 0.0271 0.0049

Mars 58491-03-09 10:19 G 23084526.83 23084526.93 23084527.03 0.1666 0.0918

Moon 58491-03-11 13:55 G 23084529.06 23084529.08 23084529.10 0.2683 0.2617

Earth 58491-03-11 14:24 G 23084529.06 23084529.10 23084529.14 0.2679 0.2497 *

Saturn 58491-04-18 04:05 G 23084566.58 23084566.67 23084566.76 0.0270 0.0233

Mars 58493-12-05 06:00 G 23085528.65 23085528.75 23085528.85 0.1858 0.1353

Jupiter 58497-01-28 10:34 G 23086678.76 23086678.94 23086679.11 0.0495 0.0081

Earth 58497-03-20 10:19 G 23086729.86 23086729.93 23086730.00 0.2674 0.2058

Moon 58497-03-20 11:02 G 23086729.89 23086729.96 23086730.03 0.2670 0.2056 *

Jupiter 58502-10-05 00:29 G 23088753.39 23088753.52 23088753.65 0.0533 0.0033

Moon 58504-03-14 08:53 G 23089279.77 23089279.87 23089279.97 0.2685 0.1237

Earth 58504-03-14 08:53 G 23089279.77 23089279.87 23089279.97 0.2677 0.1271 *

Uranus 58504-06-11 11:31 G 23089368.93 23089368.98 23089369.04 0.0138 0.0123

Uranus 58504-09-07 15:07 G 23089457.04 23089457.13 23089457.22 0.0138 0.0103

Uranus 58504-12-04 18:14 G 23089545.16 23089545.26 23089545.38 0.0138 0.0083

Uranus 58505-03-02 21:50 G 23089633.29 23089633.41 23089633.53 0.0138 0.0062

Uranus 58505-05-30 01:12 G 23089721.42 23089721.55 23089721.68 0.0138 0.0042

Uranus 58505-08-26 04:34 G 23089809.56 23089809.69 23089809.82 0.0138 0.0022

Uranus 58505-11-22 07:55 G 23089897.70 23089897.83 23089897.96 0.0138 0.0002

Saturn 58506-02-15 16:48 G 23089983.09 23089983.20 23089983.31 0.0288 0.0169

Uranus 58506-02-18 11:17 G 23089985.84 23089985.97 23089986.10 0.0138 0.0019

Saturn 58506-05-15 05:17 G 23090071.58 23090071.72 23090071.85 0.0289 0.0007

Uranus 58506-05-17 14:38 G 23090073.98 23090074.11 23090074.24 0.0138 0.0039

Saturn 58506-08-11 17:31 G 23090160.12 23090160.23 23090160.35 0.0289 0.0158

Uranus 58506-08-13 17:46 G 23090162.13 23090162.24 23090162.37 0.0138 0.0060

Earth 58506-09-15 17:02 G 23090195.13 23090195.21 23090195.28 0.2654 0.2298

Moon 58506-09-15 17:02 G 23090195.14 23090195.21 23090195.29 0.2661 0.2310 *

Uranus 58506-11-09 21:07 G 23090250.28 23090250.38 23090250.49 0.0139 0.0080

Uranus 58507-02-06 00:29 G 23090338.43 23090338.52 23090338.61 0.0139 0.0100

Uranus 58507-05-05 03:50 G 23090426.60 23090426.66 23090426.73 0.0139 0.0120

Jupiter 58508-11-17 09:07 G 23090988.73 23090988.88 23090989.03 0.0494 0.0273

Mars 58511-11-26 14:38 G 23092093.01 23092093.11 23092093.21 0.1675 0.0995

Jupiter 58514-07-24 04:05 G 23093063.55 23093063.67 23093063.80 0.0533 0.0146

Venus 58515-11-15 12:14 G 23093542.89 23093543.01 23093543.12 0.3688 0.2393

Earth 58517-03-17 03:07 G 23094030.52 23094030.63 23094030.74 0.2676 0.0067

Moon 58517-03-17 03:50 G 23094030.54 23094030.66 23094030.77 0.2680 0.0110 *

Neptune 58519-06-24 07:12 G 23094859.72 23094859.80 23094859.89 0.0088 0.0078

Earth 58519-09-18 22:05 G 23094946.27 23094946.42 23094946.57 0.2656 0.0119

Moon 58519-09-18 23:02 G 23094946.31 23094946.46 23094946.61 0.2661 0.0060 *

Neptune 58519-09-20 10:05 G 23094947.83 23094947.92 23094948.06 0.0088 0.0069

Neptune 58519-12-17 13:41 G 23095035.94 23095036.07 23095036.22 0.0088 0.0057

Saturn 58520-03-11 10:34 G 23095120.82 23095120.94 23095121.07 0.0271 0.0192

Neptune 58520-03-14 17:17 G 23095124.06 23095124.22 23095124.38 0.0088 0.0047

Saturn 58520-06-08 06:29 G 23095209.59 23095209.77 23095209.95 0.0271 0.0012

Neptune 58520-06-10 20:10 G 23095212.18 23095212.34 23095212.53 0.0088 0.0037

Saturn 58520-09-05 02:24 G 23095298.47 23095298.60 23095298.75 0.0270 0.0172

Jupiter 58520-09-05 07:55 G 23095298.77 23095298.83 23095298.90 0.0494 0.0459

Neptune 58520-09-06 23:46 G 23095300.31 23095300.49 23095300.68 0.0088 0.0025

Neptune 58520-12-04 03:07 G 23095388.45 23095388.63 23095388.82 0.0088 0.0014

Jupiter 58520-12-04 13:12 G 23095388.92 23095389.05 23095389.18 0.0496 0.0337

Neptune 58521-03-02 06:29 G 23095476.58 23095476.77 23095476.96 0.0088 0.0004

Mars 58521-04-18 00:43 G 23095523.40 23095523.53 23095523.65 0.1671 0.0121

Neptune 58521-05-29 09:50 G 23095564.72 23095564.91 23095565.10 0.0088 0.0007

Neptune 58521-08-25 13:12 G 23095652.87 23095653.05 23095653.24 0.0088 0.0018

Neptune 58521-11-21 16:19 G 23095741.01 23095741.18 23095741.37 0.0088 0.0029

Neptune 58522-02-17 19:41 G 23095829.16 23095829.32 23095829.50 0.0088 0.0040

Neptune 58522-05-16 23:02 G 23095917.32 23095917.46 23095917.63 0.0088 0.0051

Neptune 58522-08-13 02:53 G 23096005.48 23096005.62 23096005.75 0.0088 0.0062

Neptune 58522-11-09 06:14 G 23096093.65 23096093.76 23096093.87 0.0088 0.0073

Neptune 58523-02-05 09:36 G 23096181.84 23096181.90 23096181.96 0.0088 0.0084

Mars 58524-01-15 06:58 G 23096525.65 23096525.79 23096525.93 0.1852 0.0722

Jupiter 58526-05-12 07:12 G 23097373.70 23097373.80 23097373.90 0.0534 0.0335

Jupiter 58526-08-09 14:53 G 23097463.03 23097463.12 23097463.21 0.0531 0.0364

Pluto 58529-09-22 03:50 G 23098602.64 23098602.66 23098602.70 0.0066 0.0065

Pluto 58529-12-19 04:19 G 23098690.61 23098690.68 23098690.77 0.0067 0.0055

Pluto 58530-03-17 05:02 G 23098778.61 23098778.71 23098778.82 0.0067 0.0044

Earth 58530-03-19 21:22 G 23098781.28 23098781.39 23098781.49 0.2675 0.1122

Moon 58530-03-19 22:05 G 23098781.32 23098781.42 23098781.52 0.2676 0.1173 *

Pluto 58530-06-13 05:46 G 23098866.62 23098866.74 23098866.87 0.0067 0.0033

Mars 58530-09-08 10:19 G 23098953.82 23098953.93 23098954.04 0.1666 0.0779

Pluto 58530-09-09 06:14 G 23098954.64 23098954.76 23098954.90 0.0067 0.0022

Pluto 58530-12-06 06:58 G 23099042.66 23099042.79 23099042.93 0.0067 0.0011

Venus 58530-12-10 06:00 G 23099046.69 23099046.75 23099046.82 0.3683 0.2901

Pluto 58531-03-04 07:41 G 23099130.68 23099130.82 23099130.96 0.0067 0.0000

Pluto 58531-05-31 08:10 G 23099218.71 23099218.84 23099218.99 0.0067 0.0011

Pluto 58531-08-27 08:38 G 23099306.74 23099306.86 23099307.01 0.0067 0.0023

Pluto 58531-11-23 09:36 G 23099394.78 23099394.90 23099395.02 0.0067 0.0033

Pluto 58532-02-19 09:50 G 23099482.82 23099482.91 23099483.03 0.0067 0.0045

Pluto 58532-05-17 10:19 G 23099570.87 23099570.93 23099571.03 0.0068 0.0056

Pluto 58532-08-13 11:02 G 23099658.95 23099658.96 23099659.00 0.0068 0.0067

Earth 58532-09-21 03:36 G 23099697.56 23099697.65 23099697.74 0.2657 0.2146

Moon 58532-09-21 05:17 G 23099697.64 23099697.72 23099697.80 0.2659 0.2213 *

Jupiter 58532-09-22 11:17 G 23099698.79 23099698.97 23099699.14 0.0495 0.0135

Mars 58533-06-06 06:14 G 23099955.64 23099955.76 23099955.88 0.1858 0.1153

Saturn 58535-07-05 19:26 G 23100715.22 23100715.31 23100715.41 0.0288 0.0206

Saturn 58535-10-02 08:10 G 23100803.70 23100803.84 23100803.97 0.0289 0.0042

Saturn 58535-12-29 20:24 G 23100892.23 23100892.35 23100892.48 0.0289 0.0123

Saturn 58536-03-27 08:53 G 23100980.85 23100980.87 23100980.89 0.0290 0.0284

Venus 58536-06-24 21:36 G 23101070.30 23101070.40 23101070.50 0.3682 0.0396

Moon 58537-03-12 18:58 G 23101331.23 23101331.29 23101331.35 0.2685 0.2248

Earth 58537-03-12 19:26 G 23101331.25 23101331.31 23101331.37 0.2679 0.2264 *

Jupiter 58538-02-28 10:34 G 23101683.91 23101683.94 23101683.98 0.0534 0.0516

Jupiter 58538-05-28 18:43 G 23101773.16 23101773.28 23101773.40 0.0532 0.0193

Venus 58542-01-08 12:58 G 23103093.95 23103094.04 23103094.12 0.3682 0.2083

Earth 58543-03-22 15:22 G 23103532.08 23103532.14 23103532.19 0.2674 0.2274

Moon 58543-03-22 15:36 G 23103532.11 23103532.15 23103532.20 0.2668 0.2368 *

Jupiter 58544-07-11 08:24 G 23104008.67 23104008.85 23104009.02 0.0494 0.0081

Uranus 58544-10-07 12:43 G 23104096.97 23104097.03 23104097.10 0.0140 0.0132

Uranus 58545-01-03 19:55 G 23104185.22 23104185.33 23104185.47 0.0140 0.0103

Uranus 58545-04-02 03:36 G 23104273.50 23104273.65 23104273.82 0.0140 0.0073

Uranus 58545-06-29 11:17 G 23104361.80 23104361.97 23104362.16 0.0140 0.0042

Uranus 58545-09-25 18:58 G 23104450.10 23104450.29 23104450.48 0.0140 0.0012

Uranus 58545-12-23 02:38 G 23104538.42 23104538.61 23104538.80 0.0140 0.0018

Uranus 58546-03-21 10:19 G 23104626.75 23104626.93 23104627.11 0.0140 0.0048

Uranus 58546-06-17 18:00 G 23104715.09 23104715.25 23104715.41 0.0140 0.0078

Uranus 58546-09-14 01:26 G 23104803.45 23104803.56 23104803.69 0.0140 0.0109

Uranus 58546-12-11 09:07 G 23104891.87 23104891.88 23104891.91 0.0140 0.0139

Saturn 58549-07-29 12:00 G 23105852.91 23105853.00 23105853.10 0.0272 0.0226

Saturn 58549-10-26 07:55 G 23105941.65 23105941.83 23105942.01 0.0271 0.0046

Saturn 58550-01-23 03:50 G 23106030.51 23106030.66 23106030.82 0.0271 0.0137

Earth 58550-03-15 13:41 G 23106081.97 23106082.07 23106082.18 0.2677 0.1043

Moon 58550-03-15 13:55 G 23106081.98 23106082.08 23106082.18 0.2684 0.1080 *

Jupiter 58550-03-16 22:48 G 23106083.32 23106083.45 23106083.58 0.0533 0.0028

Mars 58551-05-27 14:53 G 23106520.03 23106520.12 23106520.21 0.1675 0.1137

Earth 58552-09-15 23:17 G 23106997.37 23106997.47 23106997.58 0.2654 0.1906

Moon 58552-09-15 23:31 G 23106997.38 23106997.48 23106997.59 0.2662 0.1894 *

Jupiter 58556-04-29 06:58 G 23108318.64 23108318.79 23108318.94 0.0494 0.0274

Mars 58560-10-17 00:43 G 23109950.41 23109950.53 23109950.65 0.1671 0.0251

Jupiter 58562-01-03 02:53 G 23110393.49 23110393.62 23110393.74 0.0533 0.0142

Earth 58563-03-18 07:55 G 23110832.72 23110832.83 23110832.94 0.2676 0.0172

Moon 58563-03-18 08:38 G 23110832.75 23110832.86 23110832.97 0.2679 0.0272 *

Mars 58563-07-16 06:58 G 23110952.66 23110952.79 23110952.92 0.1852 0.0901

Saturn 58564-11-21 20:10 G 23111447.30 23111447.34 23111447.40 0.0288 0.0265

Saturn 58565-02-18 08:53 G 23111535.75 23111535.87 23111536.00 0.0288 0.0101

Saturn 58565-05-17 21:22 G 23111624.26 23111624.39 23111624.53 0.0289 0.0063

Saturn 58565-08-14 09:50 G 23111712.83 23111712.91 23111712.99 0.0289 0.0224

Earth 58565-09-19 04:19 G 23111748.53 23111748.68 23111748.84 0.2656 0.0289

Moon 58565-09-19 05:46 G 23111748.59 23111748.74 23111748.89 0.2660 0.0373 *

Jupiter 58568-02-16 05:31 G 23112628.68 23112628.73 23112628.80 0.0494 0.0464

Jupiter 58568-05-16 10:48 G 23112718.82 23112718.95 23112719.08 0.0496 0.0332

Mars 58570-03-09 10:19 G 23113380.82 23113380.93 23113381.05 0.1666 0.0645

Venus 58572-06-21 13:55 G 23114215.93 23114216.08 23114216.24 0.3688 0.0343

Mars 58572-12-05 06:43 G 23114382.65 23114382.78 23114382.91 0.1858 0.0939

Jupiter 58573-10-22 06:29 G 23114703.67 23114703.77 23114703.88 0.0534 0.0318

Jupiter 58574-01-19 14:10 G 23114793.00 23114793.09 23114793.18 0.0531 0.0382

Earth 58576-03-20 02:10 G 23115583.49 23115583.59 23115583.68 0.2675 0.1336

Moon 58576-03-20 02:53 G 23115583.52 23115583.62 23115583.71 0.2674 0.1427 *

Earth 58578-09-22 10:05 G 23116499.88 23116499.92 23116499.96 0.2657 0.2552

Saturn 58579-03-15 06:00 G 23116673.58 23116673.75 23116673.91 0.0271 0.0111

Saturn 58579-06-12 01:55 G 23116762.40 23116762.58 23116762.75 0.0271 0.0070

Mars 58579-07-30 20:10 G 23116811.30 23116811.34 23116811.39 0.1662 0.1532

Saturn 58579-09-08 22:05 G 23116851.36 23116851.42 23116851.48 0.0270 0.0254

Jupiter 58580-03-04 09:22 G 23117028.72 23117028.89 23117029.06 0.0495 0.0138

Moon 58583-03-14 00:00 G 23118133.43 23118133.50 23118133.57 0.2685 0.2138

Earth 58583-03-14 00:14 G 23118133.44 23118133.51 23118133.58 0.2678 0.2031 *

Jupiter 58585-08-10 09:36 G 23119013.86 23119013.90 23119013.93 0.0534 0.0509

Jupiter 58585-11-07 17:31 G 23119103.11 23119103.23 23119103.35 0.0532 0.0200

Venus 58587-07-17 03:22 G 23119719.56 23119719.64 23119719.73 0.3683 0.1967

Uranus 58588-04-04 15:50 G 23119982.15 23119982.16 23119982.19 0.0137 0.0136

Uranus 58588-07-01 19:26 G 23120070.24 23120070.31 23120070.38 0.0138 0.0115

Uranus 58588-09-27 22:48 G 23120158.36 23120158.45 23120158.55 0.0138 0.0095

Uranus 58588-12-25 02:10 G 23120246.48 23120246.59 23120246.71 0.0138 0.0075

Earth 58589-03-22 20:10 G 23120334.30 23120334.34 23120334.38 0.2674 0.2490

Moon 58589-03-22 20:38 G 23120334.32 23120334.36 23120334.39 0.2668 0.2492 *

Uranus 58589-03-23 05:46 G 23120334.61 23120334.74 23120334.86 0.0138 0.0054

Uranus 58589-06-19 08:53 G 23120422.75 23120422.87 23120423.01 0.0138 0.0034

Uranus 58589-09-15 12:29 G 23120510.88 23120511.02 23120511.15 0.0138 0.0014

Uranus 58589-12-12 15:36 G 23120599.02 23120599.15 23120599.29 0.0138 0.0008

Uranus 58590-03-10 18:58 G 23120687.16 23120687.29 23120687.43 0.0138 0.0027

Uranus 58590-06-06 22:19 G 23120775.31 23120775.43 23120775.56 0.0138 0.0047

Uranus 58590-09-03 01:41 G 23120863.46 23120863.57 23120863.69 0.0138 0.0067

Mars 58590-11-25 14:53 G 23120947.04 23120947.12 23120947.20 0.1676 0.1273

Uranus 58590-11-30 04:48 G 23120951.61 23120951.70 23120951.81 0.0139 0.0088

Uranus 58591-02-26 08:10 G 23121039.77 23121039.84 23121039.93 0.0139 0.0108

Uranus 58591-05-25 11:31 G 23121127.94 23121127.98 23121128.03 0.0139 0.0128

Jupiter 58591-12-22 07:41 G 23121338.64 23121338.82 23121339.00 0.0495 0.0061

Venus 58593-01-29 18:58 G 23121743.18 23121743.29 23121743.39 0.3682 0.0550

Saturn 58594-07-08 11:17 G 23122267.86 23122267.97 23122268.09 0.0288 0.0143

Saturn 58594-10-05 00:00 G 23122356.36 23122356.50 23122356.63 0.0289 0.0022

Saturn 58595-01-01 12:14 G 23122444.91 23122445.01 23122445.12 0.0290 0.0184

Earth 58596-03-15 18:43 G 23122884.17 23122884.28 23122884.38 0.2677 0.0815

Moon 58596-03-15 18:58 G 23122884.18 23122884.29 23122884.40 0.2683 0.0727 *

Jupiter 58597-08-26 21:22 G 23123413.26 23123413.39 23123413.52 0.0533 0.0030

Venus 58598-08-15 10:19 G 23123766.87 23123766.93 23123766.98 0.3682 0.2999

Earth 58598-09-17 05:31 G 23123799.61 23123799.73 23123799.86 0.2655 0.1523

Moon 58598-09-17 06:00 G 23123799.62 23123799.75 23123799.87 0.2661 0.1463 *

Neptune 58599-10-26 22:48 G 23124204.44 23124204.45 23124204.48 0.0089 0.0088

Neptune 58600-01-23 00:14 G 23124292.46 23124292.51 23124292.58 0.0089 0.0080

Mars 58600-04-18 00:43 G 23124377.41 23124377.53 23124377.65 0.1671 0.0389

Neptune 58600-04-21 01:41 G 23124380.50 23124380.57 23124380.66 0.0089 0.0072

Neptune 58600-07-18 03:07 G 23124468.55 23124468.63 23124468.74 0.0089 0.0064

Neptune 58600-10-14 04:34 G 23124556.60 23124556.69 23124556.81 0.0089 0.0056

Neptune 58601-01-10 06:00 G 23124644.65 23124644.75 23124644.88 0.0089 0.0048

Neptune 58601-04-08 07:41 G 23124732.70 23124732.82 23124732.94 0.0089 0.0040

Neptune 58601-07-05 09:07 G 23124820.75 23124820.88 23124821.01 0.0089 0.0032

Neptune 58601-10-01 10:19 G 23124908.81 23124908.93 23124909.07 0.0089 0.0024

Neptune 58601-12-28 11:46 G 23124996.86 23124996.99 23124997.13 0.0089 0.0016

Neptune 58602-03-26 13:26 G 23125084.92 23125085.06 23125085.19 0.0089 0.0008

Neptune 58602-06-22 14:38 G 23125172.98 23125173.11 23125173.25 0.0089 0.0003

Neptune 58602-09-18 16:05 G 23125261.04 23125261.17 23125261.31 0.0089 0.0008

Neptune 58602-12-15 17:31 G 23125349.10 23125349.23 23125349.36 0.0089 0.0016

Mars 58603-01-15 07:26 G 23125379.69 23125379.81 23125379.93 0.1852 0.1126

Neptune 58603-03-13 18:43 G 23125437.16 23125437.28 23125437.42 0.0089 0.0024

Neptune 58603-06-09 20:10 G 23125525.22 23125525.34 23125525.47 0.0089 0.0032

Neptune 58603-09-05 21:22 G 23125613.28 23125613.39 23125613.52 0.0089 0.0041

Jupiter 58603-10-11 05:02 G 23125648.56 23125648.71 23125648.86 0.0494 0.0271

Neptune 58603-12-02 23:02 G 23125701.35 23125701.46 23125701.57 0.0089 0.0047

Neptune 58604-02-29 00:14 G 23125789.41 23125789.51 23125789.62 0.0089 0.0055

Neptune 58604-05-27 01:41 G 23125877.48 23125877.57 23125877.67 0.0089 0.0063

Neptune 58604-08-23 02:53 G 23125965.55 23125965.62 23125965.71 0.0089 0.0071

Neptune 58604-11-19 04:34 G 23126053.63 23126053.69 23126053.75 0.0089 0.0078

Neptune 58605-02-15 05:46 G 23126141.72 23126141.74 23126141.78 0.0089 0.0086

Saturn 58608-08-02 06:58 G 23127405.65 23127405.79 23127405.95 0.0272 0.0148

Saturn 58608-10-30 03:07 G 23127494.45 23127494.63 23127494.80 0.0271 0.0035

Saturn 58609-01-26 23:02 G 23127583.36 23127583.46 23127583.57 0.0271 0.0217

Earth 58609-03-19 12:58 G 23127634.93 23127635.04 23127635.15 0.2676 0.0394

Moon 58609-03-19 13:26 G 23127634.95 23127635.06 23127635.18 0.2679 0.0436 *

Jupiter 58609-06-16 01:12 G 23127723.43 23127723.55 23127723.68 0.0534 0.0144

Mars 58609-09-08 10:34 G 23127807.82 23127807.94 23127808.06 0.1666 0.0504

Earth 58611-09-21 10:48 G 23128550.80 23128550.95 23128551.10 0.2656 0.0682

Moon 58611-09-21 12:14 G 23128550.87 23128551.01 23128551.15 0.2659 0.0852 *

Mars 58612-06-06 06:58 G 23128809.66 23128809.79 23128809.93 0.1858 0.0734

Jupiter 58615-07-30 03:50 G 23129958.60 23129958.66 23129958.72 0.0493 0.0459

Jupiter 58615-10-28 08:53 G 23130048.73 23130048.87 23130049.00 0.0495 0.0334

Pluto 58617-01-03 15:07 G 23130482.07 23130482.13 23130482.23 0.0078 0.0069

Pluto 58617-04-01 17:31 G 23130570.10 23130570.23 23130570.38 0.0077 0.0047

Pluto 58617-06-28 19:41 G 23130658.16 23130658.32 23130658.50 0.0077 0.0026

Pluto 58617-09-24 22:05 G 23130746.24 23130746.42 23130746.60 0.0077 0.0005

Pluto 58617-12-22 00:00 G 23130834.33 23130834.50 23130834.68 0.0077 0.0017

Pluto 58618-03-20 01:55 G 23130922.44 23130922.58 23130922.75 0.0077 0.0038

Pluto 58618-06-16 04:05 G 23131010.57 23131010.67 23131010.80 0.0077 0.0059

Mars 58619-01-29 20:10 G 23131238.28 23131238.34 23131238.41 0.1662 0.1393

Jupiter 58621-04-04 05:17 G 23132033.61 23132033.72 23132033.82 0.0534 0.0314

Jupiter 58621-07-02 12:58 G 23132122.95 23132123.04 23132123.13 0.0531 0.0388

Earth 58622-03-22 06:58 G 23132385.70 23132385.79 23132385.88 0.2675 0.1555

Moon 58622-03-22 07:41 G 23132385.73 23132385.82 23132385.90 0.2672 0.1648 *

Saturn 58623-11-26 12:14 G 23132999.92 23133000.01 23133000.11 0.0288 0.0202

Saturn 58624-02-23 00:58 G 23133088.40 23133088.54 23133088.67 0.0288 0.0038

Saturn 58624-05-21 13:12 G 23133176.93 23133177.05 23133177.18 0.0289 0.0125

Saturn 58624-08-18 01:26 G 23133265.55 23133265.56 23133265.59 0.0289 0.0286

Jupiter 58627-08-16 07:12 G 23134358.63 23134358.80 23134358.97 0.0495 0.0137

Uranus 58628-10-28 20:10 G 23134798.27 23134798.34 23134798.45 0.0141 0.0123

Uranus 58629-01-25 03:50 G 23134886.53 23134886.66 23134886.81 0.0140 0.0093

Venus 58629-01-27 15:50 G 23134889.08 23134889.16 23134889.24 0.3689 0.3119

Moon 58629-03-15 05:02 G 23134935.62 23134935.71 23134935.79 0.2685 0.1776

Earth 58629-03-15 05:17 G 23134935.64 23134935.72 23134935.80 0.2678 0.1801 *

Uranus 58629-04-23 11:31 G 23134974.82 23134974.98 23134975.15 0.0140 0.0063

Uranus 58629-07-20 19:12 G 23135063.11 23135063.30 23135063.48 0.0140 0.0033

Uranus 58629-10-17 02:38 G 23135151.43 23135151.61 23135151.80 0.0140 0.0004

Uranus 58630-01-13 10:19 G 23135239.75 23135239.93 23135240.12 0.0140 0.0028

Uranus 58630-04-11 17:46 G 23135328.08 23135328.24 23135328.42 0.0140 0.0058

Mars 58630-05-27 14:53 G 23135374.06 23135374.12 23135374.18 0.1675 0.1403

Uranus 58630-07-09 01:26 G 23135416.42 23135416.56 23135416.72 0.0140 0.0088

Uranus 58630-10-05 09:22 G 23135504.79 23135504.89 23135504.99 0.0140 0.0118

Jupiter 58633-01-21 08:53 G 23136343.82 23136343.87 23136343.92 0.0535 0.0490

Jupiter 58633-04-20 16:48 G 23136433.09 23136433.20 23136433.32 0.0532 0.0220

Saturn 58637-12-20 04:34 G 23138137.59 23138137.69 23138137.80 0.0272 0.0218

Saturn 58638-03-19 00:29 G 23138226.34 23138226.52 23138226.70 0.0271 0.0037

Saturn 58638-06-15 20:24 G 23138315.20 23138315.35 23138315.51 0.0271 0.0146

Venus 58638-08-08 09:22 G 23138368.87 23138368.89 23138368.91 0.3683 0.3548

Jupiter 58639-06-04 06:00 G 23138668.57 23138668.75 23138668.93 0.0495 0.0054

Mars 58639-10-18 00:43 G 23138804.41 23138804.53 23138804.65 0.1671 0.0522

Earth 58642-03-17 23:31 G 23139686.37 23139686.48 23139686.59 0.2677 0.0584

Moon 58642-03-18 00:00 G 23139686.39 23139686.50 23139686.61 0.2682 0.0598 *

Mars 58642-07-16 08:10 G 23139806.73 23139806.84 23139806.94 0.1852 0.1352

Venus 58644-02-22 00:43 G 23140392.44 23140392.53 23140392.63 0.3682 0.1039

Earth 58644-09-18 12:00 G 23140601.87 23140602.00 23140602.14 0.2655 0.1120

Moon 58644-09-18 12:43 G 23140601.90 23140602.03 23140602.17 0.2661 0.1115 *

Jupiter 58645-02-06 20:10 G 23140743.21 23140743.34 23140743.47 0.0532 0.0042

Mars 58649-03-09 10:34 G 23142234.82 23142234.94 23142235.06 0.1666 0.0361

Venus 58649-09-06 16:19 G 23142416.08 23142416.18 23142416.27 0.3682 0.1465

Jupiter 58651-03-23 04:34 G 23142978.54 23142978.69 23142978.84 0.0494 0.0248

Mars 58651-12-06 07:26 G 23143236.67 23143236.81 23143236.96 0.1858 0.0519

Saturn 58653-04-14 14:10 G 23143732.03 23143732.09 23143732.16 0.0288 0.0249

Saturn 58653-07-12 02:53 G 23143820.49 23143820.62 23143820.75 0.0289 0.0085

Saturn 58653-10-08 15:22 G 23143909.01 23143909.14 23143909.27 0.0289 0.0078

Saturn 58654-01-05 03:36 G 23143997.58 23143997.65 23143997.73 0.0290 0.0240

Earth 58655-03-20 17:46 G 23144437.13 23144437.24 23144437.35 0.2676 0.0605

Moon 58655-03-20 18:29 G 23144437.16 23144437.27 23144437.37 0.2678 0.0743 *

Jupiter 58656-11-26 00:00 G 23145053.37 23145053.50 23145053.62 0.0533 0.0139

Earth 58657-09-21 17:17 G 23145353.08 23145353.22 23145353.36 0.2656 0.1086

Moon 58657-09-21 18:43 G 23145353.15 23145353.28 23145353.41 0.2660 0.1247 *

Mars 58658-07-30 20:24 G 23145665.27 23145665.35 23145665.43 0.1662 0.1251

Jupiter 58663-01-09 02:10 G 23147288.53 23147288.59 23147288.67 0.0493 0.0452

Jupiter 58663-04-09 07:12 G 23147378.67 23147378.80 23147378.93 0.0495 0.0341

Saturn 58667-05-09 05:17 G 23148869.68 23148869.72 23148869.79 0.0272 0.0257

Saturn 58667-08-06 01:12 G 23148958.39 23148958.55 23148958.73 0.0272 0.0076

Saturn 58667-11-02 21:22 G 23149047.23 23149047.39 23149047.56 0.0271 0.0107

Earth 58668-03-22 11:46 G 23149187.91 23149187.99 23149188.08 0.2675 0.1776

Moon 58668-03-22 12:29 G 23149187.94 23149188.02 23149188.10 0.2671 0.1806 *

Jupiter 58668-09-14 03:36 G 23149363.55 23149363.65 23149363.76 0.0535 0.0314

Jupiter 58668-12-12 11:31 G 23149452.89 23149452.98 23149453.07 0.0532 0.0389

Mars 58669-11-25 14:53 G 23149801.08 23149801.12 23149801.17 0.1675 0.1540

Uranus 58672-04-25 23:46 G 23150683.45 23150683.49 23150683.55 0.0138 0.0127

Uranus 58672-07-23 03:07 G 23150771.55 23150771.63 23150771.72 0.0138 0.0107

Uranus 58672-10-19 06:43 G 23150859.68 23150859.78 23150859.88 0.0138 0.0086

Uranus 58673-01-15 10:05 G 23150947.80 23150947.92 23150948.04 0.0138 0.0066

Uranus 58673-04-13 13:26 G 23151035.93 23151036.06 23151036.19 0.0138 0.0046

Uranus 58673-07-10 16:48 G 23151124.07 23151124.20 23151124.33 0.0138 0.0026

Uranus 58673-10-06 20:10 G 23151212.21 23151212.34 23151212.48 0.0138 0.0005

Uranus 58674-01-02 23:31 G 23151300.35 23151300.48 23151300.61 0.0138 0.0015

Uranus 58674-04-01 02:53 G 23151388.49 23151388.62 23151388.75 0.0138 0.0035

Uranus 58674-06-28 06:14 G 23151476.64 23151476.76 23151476.88 0.0138 0.0055

Uranus 58674-09-24 09:22 G 23151564.79 23151564.89 23151565.01 0.0139 0.0076

Uranus 58674-12-21 12:43 G 23151652.94 23151653.03 23151653.13 0.0139 0.0096

Jupiter 58675-01-26 05:31 G 23151688.56 23151688.73 23151688.91 0.0495 0.0144

Moon 58675-03-16 10:05 G 23151737.83 23151737.92 23151738.00 0.2685 0.1636

Earth 58675-03-16 10:05 G 23151737.83 23151737.92 23151738.01 0.2678 0.1568 *

Uranus 58675-03-19 16:05 G 23151741.10 23151741.17 23151741.24 0.0139 0.0116

Uranus 58675-06-15 19:12 G 23151829.29 23151829.30 23151829.33 0.0139 0.0136

Mars 58679-04-18 00:43 G 23153231.42 23153231.53 23153231.65 0.1671 0.0662

Venus 58680-02-18 09:07 G 23153537.76 23153537.88 23153537.99 0.3688 0.2404

Jupiter 58680-07-03 07:41 G 23153673.76 23153673.82 23153673.87 0.0535 0.0484

Jupiter 58680-09-30 15:50 G 23153763.04 23153763.16 23153763.27 0.0532 0.0227

Mars 58682-01-14 08:10 G 23154233.76 23154233.84 23154233.93 0.1852 0.1544

Saturn 58682-11-29 03:50 G 23154552.54 23154552.66 23154552.78 0.0288 0.0143

Saturn 58683-02-25 16:19 G 23154641.05 23154641.18 23154641.32 0.0288 0.0020

Saturn 58683-05-25 04:48 G 23154729.59 23154729.70 23154729.80 0.0289 0.0181

Neptune 58683-12-24 00:58 G 23154942.53 23154942.54 23154942.59 0.0088 0.0087

Neptune 58684-03-21 04:34 G 23155030.61 23155030.69 23155030.79 0.0088 0.0076

Neptune 58684-06-17 07:41 G 23155118.71 23155118.82 23155118.96 0.0088 0.0066

Neptune 58684-09-13 11:02 G 23155206.82 23155206.96 23155207.12 0.0088 0.0055

Neptune 58684-12-10 14:10 G 23155294.94 23155295.09 23155295.27 0.0088 0.0045

Neptune 58685-03-08 17:31 G 23155383.07 23155383.23 23155383.42 0.0088 0.0035

Neptune 58685-06-04 21:07 G 23155471.20 23155471.38 23155471.56 0.0088 0.0023

Neptune 58685-09-01 00:14 G 23155559.33 23155559.51 23155559.71 0.0088 0.0013

Neptune 58685-11-28 03:50 G 23155647.47 23155647.66 23155647.85 0.0088 0.0002

Neptune 58686-02-24 06:58 G 23155735.61 23155735.79 23155735.99 0.0088 0.0009

Neptune 58686-05-23 10:19 G 23155823.75 23155823.93 23155824.12 0.0088 0.0020

Neptune 58686-08-19 13:41 G 23155911.90 23155912.07 23155912.25 0.0088 0.0031

Jupiter 58686-11-14 04:05 G 23155998.49 23155998.67 23155998.85 0.0494 0.0051

Neptune 58686-11-15 17:02 G 23156000.05 23156000.21 23156000.38 0.0088 0.0042

Neptune 58687-02-11 20:24 G 23156088.21 23156088.35 23156088.51 0.0088 0.0052

Neptune 58687-05-10 23:46 G 23156176.37 23156176.49 23156176.63 0.0088 0.0063

Neptune 58687-08-07 02:53 G 23156264.54 23156264.62 23156264.74 0.0088 0.0075

Neptune 58687-11-03 06:29 G 23156352.74 23156352.77 23156352.83 0.0088 0.0085

Earth 58688-03-18 04:19 G 23156488.57 23156488.68 23156488.80 0.2677 0.0375

Moon 58688-03-18 05:02 G 23156488.59 23156488.71 23156488.82 0.2682 0.0264 *

Mars 58688-09-07 10:34 G 23156661.82 23156661.94 23156662.06 0.1666 0.0229

Earth 58690-09-19 18:29 G 23157404.12 23157404.27 23157404.42 0.2655 0.0724

Moon 58690-09-19 19:26 G 23157404.16 23157404.31 23157404.46 0.2660 0.0535 *

Mars 58691-06-06 07:55 G 23157663.68 23157663.83 23157663.98 0.1858 0.0310

Jupiter 58692-07-19 19:41 G 23158073.19 23158073.32 23158073.45 0.0533 0.0058

Venus 58695-03-15 06:43 G 23159041.71 23159041.78 23159041.85 0.3683 0.2601

Saturn 58696-12-22 22:19 G 23159690.29 23159690.43 23159690.58 0.0272 0.0150

Saturn 58697-03-21 18:29 G 23159779.09 23159779.27 23159779.44 0.0271 0.0033

Saturn 58697-06-18 14:24 G 23159868.00 23159868.10 23159868.21 0.0271 0.0215

Mars 58698-01-28 20:24 G 23160092.26 23160092.35 23160092.44 0.1662 0.1109

Jupiter 58698-09-02 03:07 G 23160308.47 23160308.63 23160308.78 0.0494 0.0239

Venus 58700-09-28 22:19 G 23161065.32 23161065.43 23161065.53 0.3682 0.0178

Earth 58701-03-21 22:34 G 23161239.34 23161239.44 23161239.55 0.2676 0.0831

Moon 58701-03-21 23:17 G 23161239.37 23161239.47 23161239.58 0.2676 0.0851 *

Earth 58703-09-23 23:46 G 23162155.36 23162155.49 23162155.62 0.2657 0.1501

Moon 58703-09-24 01:12 G 23162155.43 23162155.55 23162155.67 0.2659 0.1634 *

Jupiter 58704-05-08 23:02 G 23162383.33 23162383.46 23162383.59 0.0533 0.0125

Venus 58706-04-14 13:41 G 23163088.99 23163089.07 23163089.14 0.3682 0.2389

Moon 58708-03-14 20:10 G 23163789.32 23163789.34 23163789.36 0.2685 0.2629

Earth 58708-03-14 20:38 G 23163789.33 23163789.36 23163789.39 0.2679 0.2564 *

Jupiter 58710-06-22 01:41 G 23164618.49 23164618.57 23164618.66 0.0493 0.0429

Jupiter 58710-09-20 06:43 G 23164708.66 23164708.78 23164708.90 0.0496 0.0367

Saturn 58712-04-18 05:31 G 23165284.63 23165284.73 23165284.83 0.0288 0.0194

Saturn 58712-07-15 18:00 G 23165373.12 23165373.25 23165373.39 0.0288 0.0031

Uranus 58712-08-22 21:07 G 23165411.38 23165411.38 23165411.42 0.0141 0.0140

Saturn 58712-10-12 06:29 G 23165461.65 23165461.77 23165461.89 0.0289 0.0131

Uranus 58712-11-19 04:48 G 23165499.59 23165499.70 23165499.83 0.0141 0.0110

Uranus 58713-02-15 12:29 G 23165587.87 23165588.02 23165588.18 0.0140 0.0080

Uranus 58713-05-14 19:55 G 23165676.16 23165676.33 23165676.51 0.0140 0.0050

Uranus 58713-08-11 03:36 G 23165764.47 23165764.65 23165764.84 0.0140 0.0020

Uranus 58713-11-07 11:17 G 23165852.78 23165852.97 23165853.16 0.0140 0.0010

Uranus 58714-02-03 18:43 G 23165941.10 23165941.28 23165941.47 0.0140 0.0040

Earth 58714-03-24 16:48 G 23165990.12 23165990.20 23165990.27 0.2674 0.1993

Moon 58714-03-24 17:17 G 23165990.15 23165990.22 23165990.29 0.2670 0.2106 *

Uranus 58714-05-03 02:24 G 23166029.44 23166029.60 23166029.77 0.0140 0.0070

Uranus 58714-07-30 10:05 G 23166117.79 23166117.92 23166118.06 0.0140 0.0100

Uranus 58714-10-26 17:31 G 23166206.18 23166206.23 23166206.31 0.0140 0.0131

Jupiter 58716-02-26 02:38 G 23166693.50 23166693.61 23166693.72 0.0534 0.0303

Jupiter 58716-05-25 10:19 G 23166782.85 23166782.93 23166783.02 0.0531 0.0398

Mars 58718-10-18 00:58 G 23167658.43 23167658.54 23167658.64 0.1671 0.0798

Moon 58721-03-17 15:07 G 23168540.03 23168540.13 23168540.23 0.2684 0.1311

Earth 58721-03-17 15:07 G 23168540.03 23168540.13 23168540.22 0.2678 0.1337 *

Mars 58721-07-16 08:53 G 23168660.82 23168660.87 23168660.91 0.1852 0.1759

Jupiter 58722-07-09 04:05 G 23169018.51 23169018.67 23169018.85 0.0495 0.0155

Moon 58723-09-18 19:55 G 23169455.27 23169455.33 23169455.39 0.2660 0.2402

Earth 58723-09-18 19:55 G 23169455.28 23169455.33 23169455.38 0.2654 0.2479 *

Saturn 58726-05-12 23:02 G 23170422.34 23170422.46 23170422.59 0.0272 0.0190

Saturn 58726-08-09 18:58 G 23170511.11 23170511.29 23170511.47 0.0272 0.0010

Saturn 58726-11-06 14:53 G 23170599.99 23170600.12 23170600.27 0.0271 0.0176

Jupiter 58727-12-15 06:14 G 23171003.70 23171003.76 23171003.81 0.0535 0.0484

Mars 58728-03-09 10:48 G 23171088.82 23171088.95 23171089.07 0.1666 0.0097

Jupiter 58728-03-13 14:24 G 23171092.98 23171093.10 23171093.21 0.0533 0.0229

Mars 58730-12-06 08:24 G 23172090.70 23172090.85 23172091.00 0.1858 0.0090

Earth 58734-03-20 09:22 G 23173290.78 23173290.89 23173291.00 0.2677 0.0140

Moon 58734-03-20 09:50 G 23173290.80 23173290.91 23173291.02 0.2682 0.0127 *

Jupiter 58734-04-27 02:53 G 23173328.44 23173328.62 23173328.79 0.0494 0.0042

Earth 58736-09-21 00:43 G 23174206.38 23174206.53 23174206.69 0.2655 0.0335

Moon 58736-09-21 01:55 G 23174206.43 23174206.58 23174206.73 0.2660 0.0316 *

Venus 58736-09-25 11:02 G 23174210.80 23174210.96 23174211.11 0.3688 0.0356

Mars 58737-07-30 20:24 G 23174519.25 23174519.35 23174519.45 0.1662 0.0976

Jupiter 58739-12-31 18:29 G 23175403.14 23175403.27 23175403.40 0.0533 0.0065

Saturn 58741-09-05 06:43 G 23176016.71 23176016.78 23176016.85 0.0287 0.0249

Saturn 58741-12-02 19:12 G 23176105.17 23176105.30 23176105.43 0.0288 0.0087

Saturn 58742-03-01 07:41 G 23176193.69 23176193.82 23176193.95 0.0288 0.0075

Saturn 58742-05-28 19:55 G 23176282.26 23176282.33 23176282.41 0.0289 0.0236

Jupiter 58746-02-13 01:26 G 23177638.40 23177638.56 23177638.72 0.0494 0.0233

Earth 58747-03-23 03:36 G 23178041.54 23178041.65 23178041.75 0.2675 0.1053

Moon 58747-03-23 04:19 G 23178041.58 23178041.68 23178041.77 0.2674 0.1201 *

Earth 58749-09-24 06:14 G 23178957.65 23178957.76 23178957.86 0.2657 0.1904

Moon 58749-09-24 07:41 G 23178957.73 23178957.82 23178957.91 0.2658 0.2127 *

Jupiter 58751-10-19 22:19 G 23179713.31 23179713.43 23179713.56 0.0534 0.0106

Venus 58751-10-21 04:05 G 23179714.58 23179714.67 23179714.76 0.3682 0.1662

Moon 58754-03-16 00:58 G 23180591.50 23180591.54 23180591.59 0.2684 0.2417

Earth 58754-03-16 01:26 G 23180591.51 23180591.56 23180591.62 0.2679 0.2333 *

Saturn 58755-09-29 19:55 G 23181154.30 23181154.33 23181154.37 0.0272 0.0267

Saturn 58755-12-27 15:50 G 23181242.99 23181243.16 23181243.33 0.0272 0.0086

Saturn 58756-03-25 11:46 G 23181331.82 23181331.99 23181332.16 0.0271 0.0097

Uranus 58756-05-17 07:41 G 23181384.75 23181384.82 23181384.89 0.0138 0.0119

Uranus 58756-08-13 10:48 G 23181472.87 23181472.95 23181473.06 0.0138 0.0099

Uranus 58756-11-09 14:24 G 23181560.99 23181561.10 23181561.21 0.0138 0.0078

Uranus 58757-02-05 17:46 G 23181649.12 23181649.24 23181649.37 0.0138 0.0058

Uranus 58757-05-04 21:07 G 23181737.25 23181737.38 23181737.51 0.0138 0.0038

Venus 58757-05-05 19:41 G 23181738.22 23181738.32 23181738.42 0.3682 0.0851

Uranus 58757-08-01 00:29 G 23181825.39 23181825.52 23181825.66 0.0138 0.0018

Uranus 58757-10-28 03:50 G 23181913.53 23181913.66 23181913.80 0.0138 0.0005

Jupiter 58757-12-02 00:29 G 23181948.43 23181948.52 23181948.61 0.0493 0.0418

Uranus 58758-01-24 07:12 G 23182001.67 23182001.80 23182001.94 0.0138 0.0023

Jupiter 58758-03-02 05:17 G 23182038.61 23182038.72 23182038.84 0.0496 0.0378

Mars 58758-04-18 00:58 G 23182085.44 23182085.54 23182085.64 0.1671 0.0934

Uranus 58758-04-22 10:34 G 23182089.82 23182089.94 23182090.07 0.0138 0.0043

Uranus 58758-07-19 13:55 G 23182177.96 23182178.08 23182178.20 0.0138 0.0063

Uranus 58758-10-15 17:02 G 23182266.11 23182266.21 23182266.32 0.0138 0.0084

Uranus 58759-01-11 20:24 G 23182354.27 23182354.35 23182354.44 0.0139 0.0104

Uranus 58759-04-09 23:46 G 23182442.44 23182442.49 23182442.55 0.0139 0.0124

Earth 58760-03-24 21:36 G 23182792.34 23182792.40 23182792.46 0.2674 0.2208

Moon 58760-03-24 22:05 G 23182792.36 23182792.42 23182792.48 0.2670 0.2212 *

Venus 58762-11-19 11:02 G 23183761.92 23183761.96 23183762.00 0.3682 0.3311

Jupiter 58763-08-08 01:41 G 23184023.46 23184023.57 23184023.68 0.0534 0.0289

Jupiter 58763-11-05 09:36 G 23184112.82 23184112.90 23184112.98 0.0531 0.0412

Neptune 58764-07-24 21:36 G 23184375.39 23184375.40 23184375.43 0.0089 0.0088

Neptune 58764-10-20 23:02 G 23184463.41 23184463.46 23184463.53 0.0089 0.0080

Neptune 58765-01-17 00:29 G 23184551.45 23184551.52 23184551.61 0.0089 0.0072

Neptune 58765-04-15 01:55 G 23184639.50 23184639.58 23184639.69 0.0089 0.0064

Neptune 58765-07-12 03:22 G 23184727.55 23184727.64 23184727.76 0.0089 0.0056

Neptune 58765-10-08 05:02 G 23184815.60 23184815.71 23184815.83 0.0089 0.0047

Neptune 58766-01-04 06:29 G 23184903.65 23184903.77 23184903.89 0.0089 0.0039

Neptune 58766-04-02 07:55 G 23184991.70 23184991.83 23184991.96 0.0089 0.0031

Neptune 58766-06-29 09:22 G 23185079.76 23185079.89 23185080.02 0.0089 0.0023

Neptune 58766-09-25 10:48 G 23185167.82 23185167.95 23185168.08 0.0089 0.0015

Neptune 58766-12-22 12:14 G 23185255.87 23185256.01 23185256.14 0.0089 0.0007

Earth 58767-03-18 19:55 G 23185342.23 23185342.33 23185342.43 0.2678 0.1108

Moon 58767-03-18 20:10 G 23185342.24 23185342.34 23185342.44 0.2684 0.1086 *

Neptune 58767-03-20 13:41 G 23185343.93 23185344.07 23185344.20 0.0089 0.0002

Neptune 58767-06-16 15:07 G 23185431.99 23185432.13 23185432.26 0.0089 0.0009

Mars 58767-09-08 10:48 G 23185515.82 23185515.95 23185516.07 0.1666 0.0064

Neptune 58767-09-12 16:19 G 23185520.05 23185520.18 23185520.32 0.0089 0.0017

Neptune 58767-12-09 17:46 G 23185608.11 23185608.24 23185608.37 0.0089 0.0025

Neptune 58768-03-06 18:58 G 23185696.18 23185696.29 23185696.43 0.0089 0.0033

Neptune 58768-06-02 20:38 G 23185784.24 23185784.36 23185784.48 0.0089 0.0041

Neptune 58768-08-29 21:50 G 23185872.30 23185872.41 23185872.53 0.0089 0.0048

Neptune 58768-11-25 23:17 G 23185960.37 23185960.47 23185960.58 0.0089 0.0056

Neptune 58769-02-22 00:29 G 23186048.44 23186048.52 23186048.62 0.0089 0.0064

Neptune 58769-05-21 01:41 G 23186136.51 23186136.57 23186136.67 0.0089 0.0073

Neptune 58769-08-17 03:22 G 23186224.59 23186224.64 23186224.70 0.0089 0.0079

Earth 58769-09-19 02:10 G 23186257.50 23186257.59 23186257.68 0.2654 0.2097

Moon 58769-09-19 02:38 G 23186257.52 23186257.61 23186257.69 0.2660 0.2142 *

Neptune 58769-11-13 04:34 G 23186312.68 23186312.69 23186312.73 0.0089 0.0087

Jupiter 58769-12-19 03:50 G 23186348.49 23186348.66 23186348.83 0.0495 0.0180

Mars 58770-06-06 08:38 G 23186517.71 23186517.86 23186518.01 0.1858 0.0113

Saturn 58771-04-21 20:38 G 23186837.24 23186837.36 23186837.48 0.0288 0.0141

Saturn 58771-07-19 09:07 G 23186925.75 23186925.88 23186926.02 0.0288 0.0023

Saturn 58771-10-15 21:36 G 23187014.30 23187014.40 23187014.50 0.0289 0.0183

Jupiter 58775-05-27 05:17 G 23188333.66 23188333.72 23188333.78 0.0535 0.0469

Jupiter 58775-08-24 13:26 G 23188422.94 23188423.06 23188423.17 0.0532 0.0242

Pluto 58776-05-10 16:19 G 23188683.15 23188683.18 23188683.23 0.0066 0.0064

Pluto 58776-08-06 17:02 G 23188771.13 23188771.21 23188771.30 0.0067 0.0053

Pluto 58776-11-02 17:31 G 23188859.13 23188859.23 23188859.35 0.0067 0.0043

Mars 58777-01-28 20:38 G 23188946.25 23188946.36 23188946.46 0.1662 0.0832

Pluto 58777-01-29 18:14 G 23188947.14 23188947.26 23188947.39 0.0067 0.0032

Pluto 58777-04-27 18:58 G 23189035.16 23189035.29 23189035.43 0.0067 0.0021

Pluto 58777-07-24 19:41 G 23189123.18 23189123.32 23189123.46 0.0067 0.0010

Pluto 58777-10-20 20:10 G 23189211.20 23189211.34 23189211.49 0.0067 0.0002

Pluto 58778-01-16 20:53 G 23189299.23 23189299.37 23189299.51 0.0067 0.0012

Pluto 58778-04-14 21:22 G 23189387.26 23189387.39 23189387.53 0.0067 0.0023

Pluto 58778-07-11 21:50 G 23189475.30 23189475.41 23189475.54 0.0067 0.0035

Pluto 58778-10-07 22:34 G 23189563.34 23189563.44 23189563.55 0.0067 0.0045

Pluto 58779-01-03 23:02 G 23189651.40 23189651.46 23189651.55 0.0068 0.0057

Pluto 58779-04-02 00:00 G 23189739.50 23189739.50 23189739.50 0.0068 0.0068

Mars 58779-10-27 08:24 G 23189947.80 23189947.85 23189947.91 0.1864 0.1718

Earth 58780-03-20 14:10 G 23190092.98 23190093.09 23190093.20 0.2677 0.0113

Moon 58780-03-20 14:53 G 23190093.01 23190093.12 23190093.23 0.2681 0.0218 *

Jupiter 58781-10-07 01:41 G 23190658.39 23190658.57 23190658.75 0.0494 0.0029

Earth 58782-09-22 07:12 G 23191008.65 23191008.80 23191008.95 0.2655 0.0070

Moon 58782-09-22 08:24 G 23191008.70 23191008.85 23191009.00 0.2660 0.0301 *

Saturn 58785-05-15 16:05 G 23191975.02 23191975.17 23191975.34 0.0272 0.0129

Saturn 58785-08-12 12:14 G 23192063.83 23192064.01 23192064.19 0.0272 0.0055

Saturn 58785-11-09 08:10 G 23192152.77 23192152.84 23192152.94 0.0271 0.0240

Jupiter 58787-06-12 17:02 G 23192733.08 23192733.21 23192733.34 0.0534 0.0068

Earth 58793-03-23 08:24 G 23194843.75 23194843.85 23194843.95 0.2675 0.1273

Moon 58793-03-23 09:07 G 23194843.78 23194843.88 23194843.98 0.2674 0.1297 *

Venus 58793-05-02 12:58 G 23194883.96 23194884.04 23194884.12 0.3689 0.3131

Jupiter 58793-07-26 00:14 G 23194968.35 23194968.51 23194968.67 0.0493 0.0219

Earth 58795-09-25 12:43 G 23195759.95 23195760.03 23195760.10 0.2657 0.2318

Moon 58795-09-25 14:10 G 23195760.03 23195760.09 23195760.16 0.2656 0.2391 *

Uranus 58796-09-12 05:17 G 23196112.66 23196112.72 23196112.80 0.0141 0.0129

Uranus 58796-12-09 12:43 G 23196200.91 23196201.03 23196201.17 0.0141 0.0099

Uranus 58797-03-07 20:24 G 23196289.19 23196289.35 23196289.52 0.0140 0.0069

Uranus 58797-06-04 03:50 G 23196377.49 23196377.66 23196377.85 0.0140 0.0040

Uranus 58797-08-31 11:31 G 23196465.79 23196465.98 23196466.17 0.0140 0.0010

Mars 58797-10-17 00:58 G 23196512.45 23196512.54 23196512.63 0.1671 0.1067

Uranus 58797-11-27 19:12 G 23196554.11 23196554.30 23196554.49 0.0140 0.0020

Uranus 58798-02-24 02:53 G 23196642.44 23196642.62 23196642.79 0.0140 0.0051

Uranus 58798-05-23 10:05 G 23196730.78 23196730.92 23196731.09 0.0140 0.0081

Uranus 58798-08-19 17:46 G 23196819.14 23196819.24 23196819.37 0.0140 0.0111

Jupiter 58799-03-31 21:07 G 23197043.25 23197043.38 23197043.51 0.0534 0.0100

Moon 58800-03-16 06:00 G 23197393.69 23197393.75 23197393.82 0.2685 0.2114

Earth 58800-03-16 06:29 G 23197393.70 23197393.77 23197393.84 0.2679 0.2101 *

Saturn 58800-09-07 22:05 G 23197569.32 23197569.42 23197569.52 0.0287 0.0193

Saturn 58800-12-05 10:34 G 23197657.81 23197657.94 23197658.08 0.0287 0.0032

Saturn 58801-03-03 23:02 G 23197746.34 23197746.46 23197746.58 0.0288 0.0130

Venus 58802-11-11 10:05 G 23198363.87 23198363.92 23198363.97 0.3683 0.3240

Jupiter 58805-05-13 23:02 G 23199278.36 23199278.46 23199278.55 0.0493 0.0410

Jupiter 58805-08-12 03:50 G 23199368.55 23199368.66 23199368.77 0.0495 0.0384

Earth 58806-03-26 02:24 G 23199594.56 23199594.60 23199594.64 0.2674 0.2423

Moon 58806-03-26 02:53 G 23199594.58 23199594.62 23199594.65 0.2669 0.2521 *

Mars 58807-03-09 10:48 G 23199942.83 23199942.95 23199943.07 0.1666 0.0186

Venus 58808-05-27 01:41 G 23200387.47 23200387.57 23200387.67 0.3682 0.0737

Mars 58809-12-05 09:07 G 23200944.73 23200944.88 23200945.03 0.1858 0.0336

Jupiter 58811-01-18 01:12 G 23201353.43 23201353.55 23201353.66 0.0534 0.0271

Jupiter 58811-04-17 08:53 G 23201442.80 23201442.87 23201442.94 0.0532 0.0431

Earth 58813-03-19 00:43 G 23202144.43 23202144.53 23202144.64 0.2678 0.0885

Moon 58813-03-19 01:12 G 23202144.44 23202144.55 23202144.65 0.2684 0.0868 *

Venus 58813-12-10 17:02 G 23202411.12 23202411.21 23202411.30 0.3682 0.1772

Saturn 58814-10-02 13:12 G 23202706.93 23202707.05 23202707.16 0.0272 0.0205

Saturn 58814-12-30 08:53 G 23202795.69 23202795.87 23202796.05 0.0272 0.0024

Saturn 58815-03-29 05:02 G 23202884.57 23202884.71 23202884.86 0.0271 0.0160

Earth 58815-09-20 08:38 G 23203059.74 23203059.86 23203059.97 0.2654 0.1708

Moon 58815-09-20 09:07 G 23203059.77 23203059.88 23203060.00 0.2660 0.1601 *

Mars 58816-07-29 20:38 G 23203373.25 23203373.36 23203373.47 0.1662 0.0692

Jupiter 58817-05-31 02:24 G 23203678.44 23203678.60 23203678.77 0.0495 0.0191

Mars 58819-04-27 08:53 G 23204374.79 23204374.87 23204374.96 0.1864 0.1504

Jupiter 58822-11-06 04:19 G 23205663.62 23205663.68 23205663.75 0.0535 0.0454

Jupiter 58823-02-03 12:29 G 23205752.91 23205753.02 23205753.13 0.0532 0.0256

Mars 58825-12-20 06:14 G 23206803.73 23206803.76 23206803.80 0.1658 0.1576

Earth 58826-03-21 19:12 G 23206895.18 23206895.30 23206895.41 0.2676 0.0331

Moon 58826-03-21 19:41 G 23206895.21 23206895.32 23206895.43 0.2679 0.0396 *

Earth 58828-09-22 13:26 G 23207810.91 23207811.06 23207811.21 0.2656 0.0471

Moon 58828-09-22 14:53 G 23207810.97 23207811.12 23207811.27 0.2660 0.0500 *

Jupiter 58829-03-19 00:58 G 23207988.36 23207988.54 23207988.72 0.0494 0.0008

Saturn 58830-01-25 23:17 G 23208301.41 23208301.47 23208301.54 0.0287 0.0248

Saturn 58830-04-24 12:00 G 23208389.87 23208390.00 23208390.13 0.0288 0.0086

Saturn 58830-07-22 00:14 G 23208478.39 23208478.51 23208478.65 0.0288 0.0077

Saturn 58830-10-18 12:29 G 23208566.95 23208567.02 23208567.10 0.0289 0.0237

Jupiter 58834-11-22 16:19 G 23210063.05 23210063.18 23210063.30 0.0533 0.0083

Mars 58837-04-17 00:58 G 23210939.46 23210939.54 23210939.63 0.1671 0.1205

Earth 58839-03-24 13:12 G 23211645.96 23211646.05 23211646.15 0.2675 0.1492

Moon 58839-03-24 13:55 G 23211646.00 23211646.08 23211646.17 0.2673 0.1630 *

Uranus 58840-03-10 11:46 G 23211997.96 23211997.99 23211998.04 0.0137 0.0131

Uranus 58840-06-06 15:22 G 23212086.06 23212086.14 23212086.22 0.0138 0.0111

Uranus 58840-09-02 18:43 G 23212174.18 23212174.28 23212174.38 0.0138 0.0091

Uranus 58840-11-29 22:05 G 23212262.31 23212262.42 23212262.54 0.0138 0.0070

Jupiter 58841-01-04 23:02 G 23212298.30 23212298.46 23212298.63 0.0493 0.0205

Uranus 58841-02-26 01:26 G 23212350.44 23212350.56 23212350.69 0.0138 0.0050

Uranus 58841-05-25 04:48 G 23212438.57 23212438.70 23212438.84 0.0138 0.0030

Uranus 58841-08-21 08:10 G 23212526.71 23212526.84 23212526.98 0.0138 0.0010

Uranus 58841-11-17 11:31 G 23212614.85 23212614.98 23212615.12 0.0138 0.0011

Uranus 58842-02-13 14:53 G 23212702.99 23212703.12 23212703.25 0.0138 0.0031

Uranus 58842-05-12 18:14 G 23212791.14 23212791.26 23212791.39 0.0138 0.0051

Uranus 58842-08-08 21:36 G 23212879.29 23212879.40 23212879.51 0.0138 0.0071

Uranus 58842-11-05 00:58 G 23212967.44 23212967.54 23212967.64 0.0138 0.0091

Uranus 58843-02-01 04:19 G 23213055.60 23213055.68 23213055.75 0.0139 0.0111

Uranus 58843-04-30 07:26 G 23213143.77 23213143.81 23213143.85 0.0139 0.0131

Saturn 58844-02-19 13:26 G 23213438.99 23213439.06 23213439.13 0.0273 0.0249

Saturn 58844-05-18 09:22 G 23213527.72 23213527.89 23213528.06 0.0273 0.0067

Venus 58844-05-23 06:14 G 23213532.64 23213532.76 23213532.88 0.3688 0.2353

Saturn 58844-08-15 05:17 G 23213616.56 23213616.72 23213616.89 0.0272 0.0117

Moon 58846-03-17 11:17 G 23214195.89 23214195.97 23214196.04 0.2685 0.1950

Earth 58846-03-17 11:17 G 23214195.89 23214195.97 23214196.05 0.2679 0.1869 *

Mars 58846-09-07 10:48 G 23214369.83 23214369.95 23214370.07 0.1666 0.0328

Jupiter 58846-09-10 19:41 G 23214373.19 23214373.32 23214373.45 0.0534 0.0098

Neptune 58848-09-19 22:48 G 23215113.41 23215113.45 23215113.51 0.0088 0.0084

Neptune 58848-12-17 01:55 G 23215201.50 23215201.58 23215201.70 0.0088 0.0074

Neptune 58849-03-15 05:17 G 23215289.60 23215289.72 23215289.86 0.0088 0.0063

Mars 58849-06-05 09:36 G 23215371.75 23215371.90 23215372.04 0.1858 0.0538

Neptune 58849-06-11 08:24 G 23215377.72 23215377.85 23215378.02 0.0088 0.0053

Neptune 58849-09-07 11:46 G 23215465.84 23215465.99 23215466.17 0.0088 0.0043

Neptune 58849-12-04 15:22 G 23215553.96 23215554.14 23215554.32 0.0088 0.0032

Neptune 58850-03-02 18:29 G 23215642.09 23215642.27 23215642.46 0.0088 0.0021

Neptune 58850-05-29 21:50 G 23215730.23 23215730.41 23215730.60 0.0088 0.0010

Neptune 58850-08-26 01:12 G 23215818.36 23215818.55 23215818.74 0.0088 0.0002

Neptune 58850-11-22 04:34 G 23215906.50 23215906.69 23215906.88 0.0088 0.0011

Neptune 58851-02-18 07:55 G 23215994.65 23215994.83 23215995.02 0.0088 0.0022

Neptune 58851-05-17 11:02 G 23216082.79 23216082.96 23216083.15 0.0088 0.0033

Neptune 58851-08-13 14:24 G 23216170.95 23216171.10 23216171.28 0.0088 0.0044

Neptune 58851-11-09 18:00 G 23216259.10 23216259.25 23216259.40 0.0088 0.0055

Neptune 58852-02-05 21:22 G 23216347.27 23216347.39 23216347.52 0.0088 0.0066

Moon 58852-03-26 07:26 G 23216396.79 23216396.81 23216396.83 0.2668 0.2604

Earth 58852-03-26 07:12 G 23216396.79 23216396.80 23216396.82 0.2674 0.2643 *

Neptune 58852-05-04 00:29 G 23216435.44 23216435.52 23216435.63 0.0088 0.0077

Neptune 58852-07-31 03:50 G 23216523.65 23216523.66 23216523.70 0.0088 0.0088

Jupiter 58852-10-23 21:50 G 23216608.31 23216608.41 23216608.52 0.0493 0.0394

Jupiter 58853-01-22 02:38 G 23216698.51 23216698.61 23216698.72 0.0495 0.0398

Mars 58856-01-28 20:38 G 23217800.24 23217800.36 23217800.48 0.1662 0.0555

Jupiter 58858-06-29 23:46 G 23218683.37 23218683.49 23218683.60 0.0535 0.0268

Jupiter 58858-09-27 07:26 G 23218772.74 23218772.81 23218772.89 0.0532 0.0436

Mars 58858-10-26 09:07 G 23218801.78 23218801.88 23218801.99 0.1864 0.1313

Earth 58859-03-20 05:46 G 23218946.63 23218946.74 23218946.85 0.2677 0.0655

Moon 58859-03-20 06:00 G 23218946.64 23218946.75 23218946.86 0.2684 0.0590 *

Venus 58859-06-18 07:26 G 23219036.73 23219036.81 23219036.89 0.3683 0.2297

Saturn 58859-09-11 13:41 G 23219121.95 23219122.07 23219122.19 0.0287 0.0134

Saturn 58859-12-09 02:10 G 23219210.46 23219210.59 23219210.73 0.0287 0.0028

Saturn 58860-03-06 14:24 G 23219299.01 23219299.10 23219299.21 0.0288 0.0187

Earth 58861-09-20 14:53 G 23219861.99 23219862.12 23219862.25 0.2654 0.1324

Moon 58861-09-20 15:36 G 23219862.02 23219862.15 23219862.28 0.2661 0.1284 *

Pluto 58863-08-22 01:26 G 23220562.51 23220562.56 23220562.65 0.0078 0.0072

Pluto 58863-11-18 03:36 G 23220650.53 23220650.65 23220650.80 0.0077 0.0051

Pluto 58864-02-14 05:46 G 23220738.59 23220738.74 23220738.92 0.0077 0.0030

Pluto 58864-05-12 08:10 G 23220826.67 23220826.84 23220827.02 0.0077 0.0008

Pluto 58864-08-08 10:19 G 23220914.76 23220914.93 23220915.11 0.0077 0.0013

Pluto 58864-11-04 12:29 G 23221002.86 23221003.02 23221003.18 0.0077 0.0034

Jupiter 58864-11-10 00:43 G 23221008.37 23221008.53 23221008.70 0.0495 0.0199

Venus 58864-12-31 22:48 G 23221060.35 23221060.45 23221060.56 0.3682 0.0253

Pluto 58865-01-31 14:38 G 23221090.99 23221091.11 23221091.23 0.0077 0.0055

Pluto 58865-04-29 16:34 G 23221179.18 23221179.19 23221179.22 0.0077 0.0076

Mars 58865-06-20 06:14 G 23221230.71 23221230.76 23221230.83 0.1658 0.1439

Jupiter 58870-04-18 03:36 G 23222993.57 23222993.65 23222993.72 0.0535 0.0439

Jupiter 58870-07-16 11:46 G 23223082.88 23223082.99 23223083.10 0.0533 0.0272

Venus 58870-07-17 14:24 G 23223084.03 23223084.10 23223084.16 0.3682 0.2694

Earth 58872-03-22 00:00 G 23223697.39 23223697.50 23223697.61 0.2676 0.0542

Moon 58872-03-22 00:43 G 23223697.42 23223697.53 23223697.64 0.2677 0.0620 *

Saturn 58873-10-05 06:14 G 23224259.61 23224259.76 23224259.91 0.0273 0.0143

Saturn 58874-01-02 02:10 G 23224348.42 23224348.59 23224348.77 0.0272 0.0040

Saturn 58874-03-31 22:19 G 23224437.34 23224437.43 23224437.54 0.0272 0.0225

Earth 58874-09-23 19:55 G 23224613.19 23224613.33 23224613.48 0.2656 0.0865

Moon 58874-09-23 21:22 G 23224613.25 23224613.39 23224613.53 0.2658 0.1092 *

Jupiter 58876-08-28 23:31 G 23225318.30 23225318.48 23225318.66 0.0494 0.0009

Mars 58876-10-16 00:58 G 23225366.47 23225366.54 23225366.62 0.1671 0.1339

Uranus 58880-10-02 13:41 G 23226813.97 23226814.07 23226814.17 0.0141 0.0117

Uranus 58880-12-29 20:53 G 23226902.24 23226902.37 23226902.53 0.0141 0.0088

Uranus 58881-03-28 04:34 G 23226990.52 23226990.69 23226990.87 0.0140 0.0058

Uranus 58881-06-24 12:14 G 23227078.82 23227079.01 23227079.19 0.0140 0.0028

Uranus 58881-09-20 19:41 G 23227167.13 23227167.32 23227167.51 0.0140 0.0003

Uranus 58881-12-18 03:22 G 23227255.46 23227255.64 23227255.82 0.0140 0.0032

Uranus 58882-03-16 10:48 G 23227343.79 23227343.95 23227344.13 0.0140 0.0062

Jupiter 58882-05-04 15:22 G 23227393.01 23227393.14 23227393.27 0.0533 0.0095

Uranus 58882-06-12 18:29 G 23227432.13 23227432.27 23227432.42 0.0140 0.0092

Uranus 58882-09-09 01:55 G 23227520.51 23227520.58 23227520.69 0.0140 0.0123

Earth 58885-03-24 18:14 G 23228448.17 23228448.26 23228448.34 0.2675 0.1715

Moon 58885-03-24 18:43 G 23228448.20 23228448.28 23228448.37 0.2672 0.1750 *

Mars 58886-03-08 11:02 G 23228796.84 23228796.96 23228797.08 0.1666 0.0469

Jupiter 58888-06-16 22:19 G 23229628.27 23229628.43 23229628.60 0.0494 0.0186

Mars 58888-12-04 10:05 G 23229798.78 23229798.92 23229799.06 0.1858 0.0754

Saturn 58889-01-28 14:53 G 23229854.02 23229854.12 23229854.22 0.0287 0.0191

Saturn 58889-04-27 03:22 G 23229942.51 23229942.64 23229942.78 0.0288 0.0029

Saturn 58889-07-24 15:50 G 23230031.04 23230031.16 23230031.28 0.0288 0.0132

Moon 58892-03-17 16:19 G 23230998.09 23230998.18 23230998.27 0.2686 0.1582

Earth 58892-03-17 16:19 G 23230998.09 23230998.18 23230998.27 0.2679 0.1636 *

Jupiter 58894-02-20 18:58 G 23231703.16 23231703.29 23231703.42 0.0534 0.0083

Mars 58895-07-29 20:38 G 23232227.24 23232227.36 23232227.49 0.1662 0.0419

Mars 58898-04-26 09:36 G 23233228.78 23233228.90 23233229.02 0.1864 0.1094

Jupiter 58900-04-05 20:38 G 23233938.26 23233938.36 23233938.48 0.0493 0.0381

Jupiter 58900-07-05 01:26 G 23234028.47 23234028.56 23234028.66 0.0495 0.0412

Venus 58900-12-29 07:55 G 23234205.68 23234205.83 23234205.99 0.3689 0.0378

Saturn 58903-02-23 06:29 G 23234991.65 23234991.77 23234991.91 0.0273 0.0187

Saturn 58903-05-23 02:38 G 23235080.43 23235080.61 23235080.79 0.0273 0.0005

Saturn 58903-08-19 22:48 G 23235169.31 23235169.45 23235169.58 0.0272 0.0180

Mars 58904-12-20 06:29 G 23235657.69 23235657.77 23235657.84 0.1658 0.1296

Earth 58905-03-21 10:34 G 23235748.83 23235748.94 23235749.05 0.2677 0.0428

Moon 58905-03-21 11:02 G 23235748.85 23235748.96 23235749.07 0.2683 0.0423 *

Jupiter 58905-12-10 22:05 G 23236013.31 23236013.42 23236013.53 0.0535 0.0268

Jupiter 58906-03-10 06:00 G 23236102.68 23236102.75 23236102.82 0.0532 0.0436

Earth 58907-09-22 21:07 G 23236664.24 23236664.38 23236664.52 0.2654 0.0935

Moon 58907-09-22 22:05 G 23236664.27 23236664.42 23236664.56 0.2661 0.0849 *

Jupiter 58912-04-22 23:46 G 23238338.33 23238338.49 23238338.65 0.0494 0.0213

Venus 58916-01-24 04:48 G 23239709.61 23239709.70 23239709.80 0.3682 0.1368

Mars 58916-04-17 01:12 G 23239793.49 23239793.55 23239793.60 0.1671 0.1475

Jupiter 58917-09-29 01:55 G 23240323.51 23240323.58 23240323.65 0.0536 0.0441

Jupiter 58917-12-27 10:05 G 23240412.82 23240412.92 23240413.04 0.0533 0.0273

Earth 58918-03-24 04:48 G 23240499.60 23240499.70 23240499.81 0.2676 0.0764

Moon 58918-03-24 05:31 G 23240499.63 23240499.73 23240499.84 0.2677 0.0883 *

Saturn 58918-06-18 17:02 G 23240586.14 23240586.21 23240586.29 0.0286 0.0233

Saturn 58918-09-15 05:46 G 23240674.61 23240674.74 23240674.87 0.0287 0.0072

Saturn 58918-12-12 18:00 G 23240763.13 23240763.25 23240763.38 0.0287 0.0089

Saturn 58919-03-11 06:14 G 23240851.70 23240851.76 23240851.83 0.0288 0.0248

Earth 58920-09-25 02:10 G 23241415.46 23241415.59 23241415.73 0.2656 0.1261

Moon 58920-09-25 03:50 G 23241415.53 23241415.66 23241415.79 0.2657 0.1374 *

Venus 58921-08-08 20:24 G 23241733.25 23241733.35 23241733.44 0.3682 0.1154

Jupiter 58924-02-09 22:05 G 23242648.24 23242648.42 23242648.59 0.0494 0.0017

Uranus 58924-03-31 19:26 G 23242699.26 23242699.31 23242699.38 0.0137 0.0124

Uranus 58924-06-27 22:48 G 23242787.37 23242787.45 23242787.55 0.0137 0.0104

Uranus 58924-09-24 02:24 G 23242875.50 23242875.60 23242875.71 0.0138 0.0083

Uranus 58924-12-21 05:46 G 23242963.62 23242963.74 23242963.86 0.0138 0.0063

Moon 58925-03-17 02:10 G 23243049.58 23243049.59 23243049.60 0.2684 0.2653

Earth 58925-03-17 02:38 G 23243049.60 23243049.61 23243049.63 0.2680 0.2639 *

Uranus 58925-03-19 09:07 G 23243051.76 23243051.88 23243052.01 0.0138 0.0043

Uranus 58925-06-15 12:29 G 23243139.89 23243140.02 23243140.16 0.0138 0.0023

Mars 58925-09-07 11:02 G 23243223.84 23243223.96 23243224.07 0.1666 0.0599

Uranus 58925-09-11 15:50 G 23243228.03 23243228.16 23243228.30 0.0138 0.0004

Uranus 58925-12-08 19:12 G 23243316.17 23243316.30 23243316.44 0.0138 0.0018

Uranus 58926-03-06 22:34 G 23243404.31 23243404.44 23243404.57 0.0138 0.0038

Uranus 58926-06-03 01:55 G 23243492.46 23243492.58 23243492.70 0.0138 0.0058

Uranus 58926-08-30 05:17 G 23243580.61 23243580.72 23243580.83 0.0138 0.0078

Uranus 58926-11-26 08:24 G 23243668.76 23243668.85 23243668.95 0.0138 0.0099

Uranus 58927-02-22 11:46 G 23243756.93 23243756.99 23243757.06 0.0138 0.0119

Venus 58927-02-22 11:46 G 23243756.97 23243756.99 23243757.00 0.3681 0.3606 *

Uranus 58927-05-21 15:07 G 23243845.13 23243845.13 23243845.13 0.0139 0.0138

Mars 58928-06-05 10:34 G 23244225.81 23244225.94 23244226.06 0.1858 0.0968

Neptune 58929-04-21 20:38 G 23244546.33 23244546.36 23244546.40 0.0089 0.0086

Neptune 58929-07-18 22:05 G 23244634.36 23244634.42 23244634.49 0.0089 0.0078

Neptune 58929-10-14 23:31 G 23244722.40 23244722.48 23244722.57 0.0089 0.0070

Jupiter 58929-10-15 14:24 G 23244722.97 23244723.10 23244723.22 0.0533 0.0108

Neptune 58930-01-11 00:58 G 23244810.45 23244810.54 23244810.64 0.0089 0.0062

Neptune 58930-04-09 02:24 G 23244898.50 23244898.60 23244898.72 0.0089 0.0054

Neptune 58930-07-06 03:50 G 23244986.55 23244986.66 23244986.78 0.0089 0.0046

Neptune 58930-10-02 05:17 G 23245074.61 23245074.72 23245074.85 0.0089 0.0038

Neptune 58930-12-29 06:43 G 23245162.66 23245162.78 23245162.92 0.0089 0.0030

Earth 58931-03-26 23:02 G 23245250.38 23245250.46 23245250.53 0.2675 0.1927

Moon 58931-03-26 23:31 G 23245250.41 23245250.48 23245250.55 0.2671 0.1993 *

Neptune 58931-03-27 08:10 G 23245250.72 23245250.84 23245250.98 0.0089 0.0022

Neptune 58931-06-23 09:36 G 23245338.77 23245338.90 23245339.04 0.0089 0.0014

Neptune 58931-09-19 11:17 G 23245426.83 23245426.97 23245427.10 0.0089 0.0006

Neptune 58931-12-16 12:29 G 23245514.89 23245515.02 23245515.16 0.0089 0.0004

Neptune 58932-03-13 13:55 G 23245602.95 23245603.08 23245603.22 0.0089 0.0010

Neptune 58932-06-09 15:22 G 23245691.01 23245691.14 23245691.27 0.0089 0.0018

Saturn 58932-07-12 03:50 G 23245723.61 23245723.66 23245723.72 0.0273 0.0259

Neptune 58932-09-05 16:48 G 23245779.07 23245779.20 23245779.33 0.0089 0.0026

Saturn 58932-10-08 23:46 G 23245812.32 23245812.49 23245812.66 0.0273 0.0077

Neptune 58932-12-02 18:00 G 23245867.13 23245867.25 23245867.38 0.0089 0.0034

Saturn 58933-01-05 19:55 G 23245901.16 23245901.33 23245901.49 0.0272 0.0106

Neptune 58933-02-28 19:26 G 23245955.20 23245955.31 23245955.44 0.0089 0.0042

Neptune 58933-05-27 20:38 G 23246043.26 23246043.36 23246043.49 0.0089 0.0050

Neptune 58933-08-23 22:19 G 23246131.33 23246131.43 23246131.53 0.0089 0.0057

Neptune 58933-11-19 23:31 G 23246219.40 23246219.48 23246219.58 0.0089 0.0065

Neptune 58934-02-16 00:58 G 23246307.47 23246307.54 23246307.62 0.0089 0.0073

Neptune 58934-05-15 02:10 G 23246395.55 23246395.59 23246395.66 0.0089 0.0081

Neptune 58934-08-11 03:50 G 23246483.65 23246483.66 23246483.67 0.0089 0.0088

Mars 58935-01-28 20:53 G 23246654.25 23246654.37 23246654.49 0.1662 0.0275

Jupiter 58935-11-28 20:38 G 23246958.20 23246958.36 23246958.53 0.0494 0.0178

Mars 58937-10-26 10:19 G 23247655.79 23247655.93 23247656.06 0.1864 0.0871

Moon 58938-03-19 21:07 G 23247800.29 23247800.38 23247800.48 0.2686 0.1481

Earth 58938-03-19 21:07 G 23247800.29 23247800.38 23247800.48 0.2678 0.1408 *

Jupiter 58941-08-03 17:46 G 23249033.11 23249033.24 23249033.37 0.0534 0.0073

Mars 58944-06-20 06:29 G 23250084.68 23250084.77 23250084.86 0.1658 0.1156

Jupiter 58947-09-16 19:26 G 23251268.20 23251268.31 23251268.44 0.0493 0.0367

Jupiter 58947-12-16 00:29 G 23251358.43 23251358.52 23251358.61 0.0495 0.0428

Saturn 58948-02-02 06:58 G 23251406.67 23251406.79 23251406.91 0.0287 0.0127

Saturn 58948-04-30 19:26 G 23251495.17 23251495.31 23251495.44 0.0288 0.0035

Saturn 58948-07-28 07:41 G 23251583.72 23251583.82 23251583.92 0.0288 0.0194

Earth 58951-03-22 15:36 G 23252551.04 23252551.15 23252551.26 0.2677 0.0205

Moon 58951-03-22 16:05 G 23252551.06 23252551.17 23252551.28 0.2681 0.0077 *

Jupiter 58953-05-22 21:22 G 23253343.27 23253343.39 23253343.50 0.0534 0.0252

Jupiter 58953-08-20 05:02 G 23253432.65 23253432.71 23253432.78 0.0532 0.0450

Earth 58953-09-23 03:36 G 23253466.50 23253466.65 23253466.79 0.2655 0.0551

Moon 58953-09-23 04:34 G 23253466.54 23253466.69 23253466.83 0.2660 0.0424 *

Mars 58955-10-17 01:12 G 23254220.52 23254220.55 23254220.58 0.1671 0.1609

Venus 58957-08-05 09:36 G 23254878.82 23254878.90 23254878.99 0.3689 0.3077

Jupiter 58959-10-03 22:34 G 23255668.28 23255668.44 23255668.60 0.0494 0.0225

Saturn 58962-02-26 00:00 G 23256544.35 23256544.50 23256544.67 0.0273 0.0123

Saturn 58962-05-25 20:10 G 23256633.17 23256633.34 23256633.52 0.0273 0.0062

Saturn 58962-08-22 16:19 G 23256722.12 23256722.18 23256722.26 0.0272 0.0248

Earth 58964-03-24 09:50 G 23257301.80 23257301.91 23257302.01 0.2676 0.0989

Moon 58964-03-24 10:34 G 23257301.84 23257301.94 23257302.04 0.2677 0.1039 *

Uranus 58964-07-27 13:12 G 23257427.03 23257427.05 23257427.09 0.0141 0.0139

Uranus 58964-10-23 20:24 G 23257515.25 23257515.35 23257515.48 0.0141 0.0110

Uranus 58965-01-20 04:05 G 23257603.53 23257603.67 23257603.83 0.0141 0.0080

Mars 58965-03-08 11:02 G 23257650.85 23257650.96 23257651.07 0.1666 0.0739

Jupiter 58965-03-11 00:14 G 23257653.44 23257653.51 23257653.58 0.0536 0.0444

Uranus 58965-04-18 11:46 G 23257691.82 23257691.99 23257692.17 0.0141 0.0050

Jupiter 58965-06-08 08:38 G 23257742.75 23257742.86 23257742.97 0.0533 0.0270

Uranus 58965-07-15 19:12 G 23257780.12 23257780.30 23257780.49 0.0140 0.0021

Uranus 58965-10-12 02:53 G 23257868.43 23257868.62 23257868.81 0.0140 0.0010

Uranus 58966-01-08 10:19 G 23257956.76 23257956.93 23257957.12 0.0140 0.0041

Uranus 58966-04-06 18:00 G 23258045.09 23258045.25 23258045.42 0.0140 0.0070

Uranus 58966-07-04 01:41 G 23258133.44 23258133.57 23258133.71 0.0140 0.0100

Earth 58966-09-26 08:38 G 23258217.74 23258217.86 23258217.98 0.2656 0.1668

Moon 58966-09-26 10:19 G 23258217.83 23258217.93 23258218.04 0.2657 0.1879 *

Uranus 58966-09-30 09:07 G 23258221.83 23258221.88 23258221.96 0.0140 0.0131

Venus 58967-02-14 10:48 G 23258358.89 23258358.95 23258359.01 0.3682 0.2955

Mars 58967-12-05 10:48 G 23258652.84 23258652.95 23258653.07 0.1858 0.1183

Moon 58971-03-18 07:12 G 23259851.76 23259851.80 23259851.84 0.2686 0.2491

Earth 58971-03-18 07:41 G 23259851.77 23259851.82 23259851.87 0.2680 0.2405 *

Jupiter 58971-07-22 20:53 G 23259978.19 23259978.37 23259978.55 0.0494 0.0028

Venus 58972-08-30 02:10 G 23260382.49 23260382.59 23260382.69 0.3682 0.0434

Mars 58974-07-29 20:53 G 23261081.24 23261081.37 23261081.49 0.1662 0.0145

Earth 58977-03-27 03:50 G 23262052.59 23262052.66 23262052.72 0.2675 0.2143

Moon 58977-03-27 04:19 G 23262052.62 23262052.68 23262052.74 0.2669 0.2206 *

Jupiter 58977-03-27 12:29 G 23262052.90 23262053.02 23262053.15 0.0534 0.0103

Mars 58977-04-26 10:19 G 23262082.79 23262082.93 23262083.07 0.1864 0.0690

Saturn 58977-06-21 09:36 G 23262138.79 23262138.90 23262139.01 0.0286 0.0165

Saturn 58977-09-17 22:05 G 23262227.28 23262227.42 23262227.55 0.0287 0.0007

Saturn 58977-12-15 10:19 G 23262315.82 23262315.93 23262316.04 0.0287 0.0154

Venus 58978-03-15 17:46 G 23262406.15 23262406.24 23262406.32 0.3682 0.2076

Jupiter 58983-05-10 18:58 G 23264288.12 23264288.29 23264288.46 0.0493 0.0173

Mars 58983-12-20 06:43 G 23264511.68 23264511.78 23264511.87 0.1658 0.1018

Moon 58984-03-20 02:10 G 23264602.49 23264602.59 23264602.69 0.2685 0.1113

Earth 58984-03-20 02:10 G 23264602.49 23264602.59 23264602.69 0.2678 0.1179 *

Earth 58986-09-21 05:17 G 23265517.64 23265517.72 23265517.79 0.2653 0.2281

Moon	**58986-09-21 05:31**	**G**	**23265517.64**	**23265517.73**	**23265517.81**	**0.2660**	**0.2167**	*
Jupiter	**58989-01-13 16:34**	**G**	**23266363.06**	**23266363.19**	**23266363.32**	**0.0534**	**0.0065**	
Saturn	**58991-07-15 22:05**	**G**	**23267276.30**	**23267276.42**	**23267276.55**	**0.0273**	**0.0188**	
Saturn	**58991-10-12 18:00**	**G**	**23267365.07**	**23267365.25**	**23267365.43**	**0.0273**	**0.0007**	
Saturn	**58992-01-09 13:55**	**G**	**23267453.96**	**23267454.08**	**23267454.23**	**0.0272**	**0.0180**	
Jupiter	**58995-02-26 17:46**	**G**	**23268598.12**	**23268598.24**	**23268598.36**	**0.0493**	**0.0361**	
Jupiter	**58995-05-27 22:34**	**G**	**23268688.36**	**23268688.44**	**23268688.53**	**0.0495**	**0.0433**	
Earth	**58997-03-22 20:24**	**G**	**23269353.24**	**23269353.35**	**23269353.46**	**0.2677**	**0.0037**	
Moon	**58997-03-22 21:07**	**G**	**23269353.27**	**23269353.38**	**23269353.49**	**0.2680**	**0.0041**	*
Earth	**58999-09-24 09:50**	**G**	**23270268.76**	**23270268.91**	**23270269.06**	**0.2655**	**0.0152**	
Moon	**58999-09-24 11:17**	**G**	**23270268.81**	**23270268.97**	**23270269.12**	**0.2658**	**0.0109**	*
Jupiter	**59000-11-02 20:10**	**G**	**23270673.22**	**23270673.34**	**23270673.45**	**0.0535**	**0.0245**	

60TH MILLENNIUM CE

This is a list of transits of Mercury in the 60th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**59001-01-31 03:50**	**G**	**23270762.60**	**23270762.66**	**23270762.73**	**0.0532**	**0.0457**	
Mars	**59004-09-07 11:02**	**G**	**23272077.86**	**23272077.96**	**23272078.07**	**0.1666**	**0.0875**	
Saturn	**59006-11-09 10:48**	**G**	**23272870.86**	**23272870.95**	**23272871.04**	**0.0287**	**0.0220**	
Saturn	**59007-02-05 23:17**	**G**	**23272959.34**	**23272959.47**	**23272959.61**	**0.0287**	**0.0059**	
Jupiter	**59007-03-16 21:07**	**G**	**23272998.22**	**23272998.38**	**23272998.53**	**0.0495**	**0.0235**	
Saturn	**59007-05-05 11:46**	**G**	**23273047.86**	**23273047.99**	**23273048.11**	**0.0288**	**0.0101**	
Mars	**59007-06-06 11:17**	**G**	**23273079.87**	**23273079.97**	**23273080.07**	**0.1858**	**0.1382**	

Saturn 59007-08-02 00:00 G 23273136.45 23273136.50 23273136.56 0.0288 0.0260

Uranus 59008-01-24 23:31 G 23273312.48 23273312.48 23273312.51 0.0137 0.0136

Uranus 59008-04-22 03:07 G 23273400.57 23273400.63 23273400.71 0.0137 0.0116

Uranus 59008-07-19 06:29 G 23273488.68 23273488.77 23273488.87 0.0137 0.0096

Venus 59008-08-27 03:07 G 23273527.52 23273527.63 23273527.75 0.3688 0.2349

Uranus 59008-10-15 09:50 G 23273576.81 23273576.91 23273577.03 0.0138 0.0076

Uranus 59009-01-11 13:26 G 23273664.94 23273665.06 23273665.18 0.0138 0.0055

Uranus 59009-04-09 16:48 G 23273753.07 23273753.20 23273753.33 0.0138 0.0035

Uranus 59009-07-06 20:10 G 23273841.21 23273841.34 23273841.47 0.0138 0.0015

Uranus 59009-10-02 23:31 G 23273929.35 23273929.48 23273929.62 0.0138 0.0006

Uranus 59009-12-30 02:53 G 23274017.49 23274017.62 23274017.75 0.0138 0.0026

Earth 59010-03-26 14:38 G 23274104.01 23274104.11 23274104.21 0.2676 0.1203

Moon 59010-03-26 15:22 G 23274104.04 23274104.14 23274104.23 0.2675 0.1336 *

Uranus 59010-03-28 06:14 G 23274105.63 23274105.76 23274105.89 0.0138 0.0046

Uranus 59010-06-24 09:22 G 23274193.78 23274193.89 23274194.01 0.0138 0.0066

Uranus 59010-09-20 12:43 G 23274281.93 23274282.03 23274282.14 0.0138 0.0086

Uranus 59010-12-17 16:05 G 23274370.09 23274370.17 23274370.26 0.0138 0.0106

Uranus 59011-03-15 19:12 G 23274458.26 23274458.30 23274458.36 0.0138 0.0127

Jupiter 59012-08-21 23:31 G 23274983.40 23274983.48 23274983.55 0.0535 0.0429

Earth 59012-09-27 15:07 G 23275020.04 23275020.13 23275020.22 0.2657 0.2071

Moon 59012-09-27 16:48 G 23275020.12 23275020.20 23275020.28 0.2657 0.2229 *

Jupiter 59012-11-19 07:41 G 23275072.71 23275072.82 23275072.93 0.0533 0.0284

Neptune 59013-06-18 20:38 G 23275284.30 23275284.36 23275284.44 0.0088 0.0081

Neptune 59013-09-14 23:31 G 23275372.39 23275372.48 23275372.61 0.0088 0.0072

Neptune 59013-12-12 03:07 G 23275460.50 23275460.63 23275460.77 0.0088 0.0060

Mars 59014-01-28 20:53 G 23275508.25 23275508.37 23275508.50 0.1662 0.0050

Neptune 59014-03-10 06:14 G 23275548.62 23275548.76 23275548.92 0.0088 0.0050

Neptune 59014-06-06 09:36 G 23275636.74 23275636.90 23275637.07 0.0088 0.0039

Neptune 59014-09-02 12:43 G 23275724.86 23275725.03 23275725.22 0.0088 0.0029

Neptune 59014-11-29 16:05 G 23275812.99 23275813.17 23275813.36 0.0088 0.0019

Neptune 59015-02-25 19:26 G 23275901.13 23275901.31 23275901.50 0.0088 0.0008

Neptune 59015-05-24 22:48 G 23275989.26 23275989.45 23275989.64 0.0088 0.0003

Neptune 59015-08-21 02:10 G 23276077.40 23276077.59 23276077.78 0.0088 0.0014

Neptune 59015-11-17 05:31 G 23276165.55 23276165.73 23276165.91 0.0088 0.0025

Neptune 59016-02-13 08:38 G 23276253.69 23276253.86 23276254.04 0.0088 0.0036

Neptune 59016-05-11 12:00 G 23276341.85 23276342.00 23276342.17 0.0088 0.0046

Neptune 59016-08-07 15:22 G 23276430.00 23276430.14 23276430.29 0.0088 0.0057

Mars 59016-10-26 11:02 G 23276509.81 23276509.96 23276510.10 0.1864 0.0456

Neptune 59016-11-03 18:29 G 23276518.17 23276518.27 23276518.41 0.0088 0.0068

Neptune 59017-01-30 21:50 G 23276606.35 23276606.41 23276606.51 0.0088 0.0079

Moon 59017-03-19 12:14 G 23276653.95 23276654.01 23276654.07 0.2686 0.2196

Earth 59017-03-19 12:29 G 23276653.96 23276654.02 23276654.09 0.2679 0.2171 *

Jupiter 59019-01-02 19:26 G 23277308.13 23277308.31 23277308.49 0.0494 0.0037

Saturn 59020-12-02 22:19 G 23278008.35 23278008.43 23278008.53 0.0274 0.0234

Saturn 59021-03-01 18:29 G 23278097.09 23278097.27 23278097.44 0.0273 0.0051

Saturn 59021-05-29 14:24 G 23278185.95 23278186.10 23278186.26 0.0273 0.0134

Pluto 59023-03-26 04:19 G 23278851.63 23278851.68 23278851.75 0.0066 0.0060

Earth 59023-03-29 08:38 G 23278854.81 23278854.86 23278854.91 0.2675 0.2363

Moon 59023-03-29 09:07 G 23278854.83 23278854.88 23278854.93 0.2669 0.2377 *

Mars 59023-06-21 06:43 G 23278938.67 23278938.78 23278938.88 0.1658 0.0876

Pluto 59023-06-22 05:02 G 23278939.62 23278939.71 23278939.81 0.0067 0.0049

Pluto 59023-09-18 05:31 G 23279027.63 23279027.73 23279027.86 0.0067 0.0039

Venus 59023-09-22 08:10 G 23279031.75 23279031.84 23279031.92 0.3682 0.2007

Pluto 59023-12-15 06:14 G 23279115.64 23279115.76 23279115.90 0.0067 0.0028

Pluto 59024-03-12 06:58 G 23279203.66 23279203.79 23279203.93 0.0067 0.0017

Pluto 59024-06-08 07:41 G 23279291.68 23279291.82 23279291.96 0.0067 0.0006

Pluto 59024-09-04 08:10 G 23279379.70 23279379.84 23279379.99 0.0067 0.0006

Jupiter 59024-09-07 10:48 G 23279382.82 23279382.95 23279383.08 0.0534 0.0098

Pluto 59024-12-01 08:53 G 23279467.74 23279467.87 23279468.01 0.0067 0.0016

Pluto 59025-02-27 09:22 G 23279555.77 23279555.89 23279556.03 0.0067 0.0028

Pluto 59025-05-26 10:05 G 23279643.81 23279643.92 23279644.04 0.0067 0.0038

Pluto 59025-08-22 10:34 G 23279731.86 23279731.94 23279732.05 0.0067 0.0050

Pluto 59025-11-18 11:17 G 23279819.92 23279819.97 23279820.04 0.0068 0.0061

Venus 59029-04-06 23:31 G 23281055.38 23281055.48 23281055.59 0.3682 0.0536

Earth 59030-03-22 06:58 G 23281404.69 23281404.79 23281404.90 0.2678 0.0949

Moon 59030-03-22 07:12 G 23281404.70 23281404.80 23281404.91 0.2684 0.0965 *

Jupiter 59030-10-21 17:46 G 23281618.07 23281618.24 23281618.41 0.0493 0.0159

Earth 59032-09-22 11:17 G 23282319.87 23282319.97 23282320.08 0.2654 0.1904

Moon 59032-09-22 11:46 G 23282319.89 23282319.99 23282320.09 0.2660 0.1967 *

Venus 59034-10-21 15:07 G 23283079.07 23283079.13 23283079.18 0.3681 0.3001

Saturn 59036-03-28 13:55 G 23283603.02 23283603.08 23283603.14 0.0286 0.0252

Saturn 59036-06-25 02:38 G 23283691.48 23283691.61 23283691.73 0.0286 0.0092

Jupiter 59036-06-26 14:38 G 23283692.98 23283693.11 23283693.24 0.0535 0.0074

Saturn 59036-09-21 14:53 G 23283779.99 23283780.12 23283780.25 0.0287 0.0068

Saturn 59036-12-19 03:07 G 23283868.55 23283868.63 23283868.71 0.0287 0.0227

Jupiter 59042-08-09 15:50 G 23285928.04 23285928.16 23285928.28 0.0493 0.0359

Jupiter 59042-11-07 20:24 G 23286018.27 23286018.35 23286018.44 0.0495 0.0434

Earth 59043-03-25 01:26 G 23286155.44 23286155.56 23286155.67 0.2677 0.0268

Moon 59043-03-25 01:55 G 23286155.47 23286155.58 23286155.69 0.2680 0.0407 *

Mars 59044-03-08 11:17 G 23286504.87 23286504.97 23286505.06 0.1667 0.1010

Earth 59045-09-25 16:19 G 23287071.03 23287071.18 23287071.33 0.2655 0.0252

Moon 59045-09-25 17:46 G 23287071.09 23287071.24 23287071.39 0.2658 0.0493 *

Mars 59046-12-05 11:46 G 23287506.92 23287506.99 23287507.07 0.1858 0.1617

Jupiter 59048-04-14 18:29 G 23288003.16 23288003.27 23288003.39 0.0535 0.0244

Jupiter 59048-07-13 02:38 G 23288092.54 23288092.61 23288092.67 0.0532 0.0461

Uranus 59048-08-17 20:38 G 23288128.30 23288128.36 23288128.44 0.0141 0.0130

Uranus 59048-11-14 04:19 G 23288216.55 23288216.68 23288216.81 0.0141 0.0100

Uranus 59049-02-10 11:31 G 23288304.83 23288304.98 23288305.15 0.0141 0.0071

Uranus 59049-05-09 19:12 G 23288393.13 23288393.30 23288393.49 0.0141 0.0041

Uranus 59049-08-06 02:53 G 23288481.43 23288481.62 23288481.81 0.0140 0.0011

Uranus 59049-11-02 10:19 G 23288569.75 23288569.93 23288570.12 0.0140 0.0020

Uranus 59050-01-29 18:00 G 23288658.07 23288658.25 23288658.43 0.0140 0.0049

Uranus 59050-04-28 01:41 G 23288746.41 23288746.57 23288746.72 0.0140 0.0080

Saturn 59050-07-19 16:48 G 23288829.04 23288829.20 23288829.37 0.0273 0.0112

Uranus 59050-07-25 08:53 G 23288834.77 23288834.87 23288835.00 0.0140 0.0110

Saturn 59050-10-16 12:58 G 23288917.87 23288918.04 23288918.21 0.0273 0.0072

Uranus 59050-10-21 17:02 G 23288923.21 23288923.21 23288923.21 0.0140 0.0140

Saturn 59051-01-13 08:53 G 23289006.83 23289006.87 23289006.94 0.0272 0.0257

Mars 59053-07-29 21:07 G 23289935.25 23289935.38 23289935.50 0.1662 0.0147

Jupiter 59054-08-26 18:58 G 23290328.13 23290328.29 23290328.45 0.0494 0.0236

Earth 59056-03-26 19:26 G 23290906.22 23290906.31 23290906.41 0.2676 0.1426

Moon 59056-03-26 20:10 G 23290906.25 23290906.34 23290906.43 0.2673 0.1437 *

Mars 59056-04-26 11:31 G 23290936.83 23290936.98 23290937.13 0.1863 0.0249

Earth 59058-09-28 21:36 G 23291822.35 23291822.40 23291822.45 0.2657 0.2489

Moon 59058-09-28 23:17 G 23291822.45 23291822.47 23291822.48 0.2656 0.2633 *

Jupiter 59060-02-01 22:05 G 23292313.34 23292313.42 23292313.50 0.0535 0.0425

Jupiter 59060-05-01 06:14 G 23292402.65 23292402.76 23292402.87 0.0533 0.0287

Mars 59062-12-20 06:43 G 23293365.67 23293365.78 23293365.89 0.1658 0.0736

Moon 59063-03-20 17:17 G 23293456.14 23293456.22 23293456.29 0.2686 0.1976

Earth 59063-03-20 17:31 G 23293456.15 23293456.23 23293456.31 0.2679 0.1935 *

Venus 59065-04-03 05:02 G 23294200.55 23294200.71 23294200.86 0.3688 0.0362

Saturn 59065-11-12 03:50 G 23294423.54 23294423.66 23294423.78 0.0287 0.0146

Saturn 59066-02-08 16:19 G 23294512.04 23294512.18 23294512.31 0.0287 0.0016

Saturn 59066-05-08 04:34 G 23294600.59 23294600.69 23294600.80 0.0288 0.0174

Jupiter 59066-06-14 17:31 G 23294638.05 23294638.23 23294638.41 0.0494 0.0040

Earth 59069-03-29 13:26 G 23295657.04 23295657.06 23295657.09 0.2674 0.2576

Moon 59069-03-29 13:55 G 23295657.07 23295657.08 23295657.09 0.2669 0.2649 *

Jupiter 59072-02-18 09:50 G 23296712.78 23296712.91 23296713.04 0.0533 0.0110

Mars 59072-05-11 16:34 G 23296796.16 23296796.19 23296796.21 0.1654 0.1615

Venus 59074-10-13 13:55 G 23297681.07 23297681.08 23297681.10 0.3683 0.3600

Earth 59076-03-22 12:00 G 23298206.89 23298207.00 23298207.11 0.2678 0.0721

Moon 59076-03-22 12:14 G 23298206.91 23298207.01 23298207.12 0.2683 0.0658 *

Jupiter 59078-04-02 16:05 G 23298948.00 23298948.17 23298948.34 0.0493 0.0153

Earth 59078-09-23 17:46 G 23299122.12 23299122.24 23299122.36 0.2654 0.1518

Moon 59078-09-23 18:29 G 23299122.14 23299122.27 23299122.39 0.2659 0.1363 *

Saturn 59079-12-06 17:17 G 23299561.08 23299561.22 23299561.37 0.0273 0.0157

Saturn 59080-03-04 13:26 G 23299649.88 23299650.06 23299650.24 0.0273 0.0027

Venus 59080-04-28 05:31 G 23299704.63 23299704.73 23299704.83 0.3682 0.1058

Saturn 59080-06-01 09:36 G 23299738.79 23299738.90 23299739.01 0.0272 0.0212

Mars 59083-09-07 11:17 G 23300931.88 23300931.97 23300932.06 0.1666 0.1146

Jupiter 59083-12-07 12:43 G 23301022.90 23301023.03 23301023.16 0.0535 0.0081

Venus 59085-11-11 21:07 G 23301728.28 23301728.38 23301728.47 0.3682 0.1462

Mars 59086-06-05 12:14 G 23301933.98 23301934.01 23301934.03 0.1858 0.1815

Earth 59089-03-25 06:14 G 23302957.65 23302957.76 23302957.87 0.2677 0.0476

Moon 59089-03-25 06:58 G 23302957.68 23302957.79 23302957.90 0.2679 0.0500 *

Jupiter 59090-01-19 14:38 G 23303257.99 23303258.11 23303258.23 0.0492 0.0346

Jupiter 59090-04-19 19:12 G 23303348.22 23303348.30 23303348.38 0.0495 0.0444

Earth 59091-09-26 22:34 G 23303873.29 23303873.44 23303873.59 0.2655 0.0645

Moon 59091-09-27 00:14 G 23303873.36 23303873.51 23303873.65 0.2658 0.0705 *

Uranus 59092-02-14 07:12 G 23304013.77 23304013.80 23304013.86 0.0137 0.0129

Uranus 59092-05-12 11:02 G 23304101.88 23304101.96 23304102.04 0.0137 0.0108

Uranus 59092-08-08 14:10 G 23304190.00 23304190.09 23304190.20 0.0137 0.0088

Uranus 59092-11-04 17:46 G 23304278.12 23304278.24 23304278.36 0.0137 0.0067

Mars 59093-01-27 21:07 G 23304362.26 23304362.38 23304362.50 0.1662 0.0275

Uranus 59093-01-31 21:07 G 23304366.26 23304366.38 23304366.51 0.0138 0.0047

Uranus 59093-04-30 00:29 G 23304454.39 23304454.52 23304454.66 0.0138 0.0027

Uranus 59093-07-27 03:50 G 23304542.53 23304542.66 23304542.80 0.0138 0.0007

Uranus 59093-10-23 07:12 G 23304630.67 23304630.80 23304630.94 0.0138 0.0014

Neptune 59094-01-17 19:26 G 23304717.28 23304717.31 23304717.36 0.0089 0.0085

Uranus 59094-01-19 10:34 G 23304718.81 23304718.94 23304719.07 0.0138 0.0034

Neptune 59094-04-15 20:53 G 23304805.32 23304805.37 23304805.45 0.0089 0.0077

Uranus 59094-04-17 13:55 G 23304806.96 23304807.08 23304807.20 0.0138 0.0054

Neptune 59094-07-12 22:19 G 23304893.36 23304893.43 23304893.53 0.0089 0.0069

Uranus 59094-07-14 17:02 G 23304895.11 23304895.21 23304895.33 0.0138 0.0075

Neptune 59094-10-08 23:46 G 23304981.41 23304981.49 23304981.60 0.0089 0.0061

Uranus 59094-10-10 20:24 G 23304983.26 23304983.35 23304983.45 0.0138 0.0094

Neptune 59095-01-05 01:26 G 23305069.46 23305069.56 23305069.67 0.0089 0.0053

Uranus 59095-01-06 23:46 G 23305071.42 23305071.49 23305071.57 0.0138 0.0114

Saturn 59095-04-01 07:12 G 23305155.70 23305155.80 23305155.91 0.0286 0.0174

Neptune 59095-04-03 02:53 G 23305157.51 23305157.62 23305157.74 0.0089 0.0045

Uranus 59095-04-05 02:53 G 23305159.60 23305159.62 23305159.66 0.0138 0.0135

Saturn 59095-06-28 19:55 G 23305244.19 23305244.33 23305244.46 0.0287 0.0016

Neptune 59095-06-30 04:19 G 23305245.56 23305245.68 23305245.81 0.0089 0.0037

Saturn 59095-09-25 08:10 G 23305332.72 23305332.84 23305332.95 0.0287 0.0146

Jupiter 59095-09-25 16:19 G 23305333.07 23305333.18 23305333.30 0.0535 0.0258

Neptune 59095-09-26 05:46 G 23305333.62 23305333.74 23305333.87 0.0089 0.0029

Mars 59095-10-26 11:46 G 23305363.83 23305363.99 23305364.14 0.1864 0.0076

Neptune 59095-12-23 07:12 G 23305421.67 23305421.80 23305421.94 0.0089 0.0021

Jupiter 59095-12-24 00:29 G 23305422.45 23305422.52 23305422.59 0.0533 0.0449

Neptune 59096-03-20 08:38 G 23305509.73 23305509.86 23305510.00 0.0089 0.0013

Neptune 59096-06-16 10:05 G 23305597.79 23305597.92 23305598.06 0.0089 0.0005

Neptune 59096-09-12 11:31 G 23305685.85 23305685.98 23305686.12 0.0089 0.0004

Neptune 59096-12-09 12:58 G 23305773.91 23305774.04 23305774.18 0.0089 0.0012

Neptune 59097-03-07 14:24 G 23305861.97 23305862.10 23305862.23 0.0089 0.0020

Neptune 59097-06-03 15:50 G 23305950.03 23305950.16 23305950.29 0.0089 0.0027

Neptune 59097-08-30 17:17 G 23306038.10 23306038.22 23306038.34 0.0089 0.0035

Neptune 59097-11-26 18:29 G 23306126.16 23306126.27 23306126.40 0.0089 0.0044

Neptune 59098-02-22 19:55 G 23306214.23 23306214.33 23306214.45 0.0089 0.0051

Neptune 59098-05-21 21:07 G 23306302.29 23306302.38 23306302.49 0.0089 0.0060

Neptune 59098-08-17 22:34 G 23306390.37 23306390.44 23306390.54 0.0089 0.0067

Neptune 59098-11-14 00:14 G 23306478.44 23306478.51 23306478.58 0.0089 0.0074

Neptune 59099-02-10 01:26 G 23306566.52 23306566.56 23306566.62 0.0089 0.0082

Jupiter 59102-02-06 16:34 G 23307658.04 23307658.19 23307658.35 0.0494 0.0234

Earth 59102-03-29 00:14 G 23307708.43 23307708.51 23307708.60 0.2676 0.1644

Moon 59102-03-29 00:58 G 23307708.46 23307708.54 23307708.62 0.2672 0.1780 *

Mars 59102-06-21 06:43 G 23307792.67 23307792.78 23307792.90 0.1658 0.0602

Mars 59105-03-18 11:46 G 23308793.98 23308793.99 23308794.01 0.1869 0.1850

Jupiter 59107-07-15 20:24 G 23309643.27 23309643.35 23309643.42 0.0536 0.0429

Jupiter 59107-10-13 04:34 G 23309732.58 23309732.69 23309732.80 0.0533 0.0286

Moon 59109-03-21 22:19 G 23310258.34 23310258.43 23310258.51 0.2685 0.1749

Earth 59109-03-21 22:19 G 23310258.35 23310258.43 23310258.52 0.2679 0.1709 *

Saturn 59109-04-25 16:48 G 23310293.09 23310293.20 23310293.31 0.0273 0.0210

Saturn 59109-07-23 12:43 G 23310381.85 23310382.03 23310382.20 0.0273 0.0028

Saturn 59109-10-20 08:38 G 23310470.72 23310470.86 23310471.01 0.0272 0.0157

Pluto 59110-07-07 12:29 G 23310730.94 23310731.02 23310731.14 0.0078 0.0065

Pluto 59110-10-03 15:07 G 23310818.98 23310819.13 23310819.28 0.0077 0.0043

Pluto 59110-12-30 17:17 G 23310907.05 23310907.22 23310907.39 0.0077 0.0022

Pluto 59111-03-28 19:26 G 23310995.13 23310995.31 23310995.49 0.0077 0.0001

Pluto 59111-06-24 21:22 G 23311083.22 23311083.39 23311083.57 0.0077 0.0021

Pluto 59111-09-20 23:17 G 23311171.33 23311171.47 23311171.63 0.0077 0.0042

Mars 59111-11-11 16:34 G 23311223.14 23311223.19 23311223.24 0.1654 0.1473

Pluto 59111-12-18 01:12 G 23311259.47 23311259.55 23311259.68 0.0077 0.0063

Jupiter 59113-11-25 15:07 G 23311967.95 23311968.13 23311968.31 0.0494 0.0037

Jupiter 59119-08-01 08:10 G 23314042.72 23314042.84 23314042.97 0.0533 0.0113

Venus 59121-11-09 06:43 G 23314873.70 23314873.78 23314873.86 0.3689 0.3089

Earth 59122-03-24 16:48 G 23315009.09 23315009.20 23315009.31 0.2678 0.0494

Moon 59122-03-24 17:17 G 23315009.11 23315009.22 23315009.33 0.2683 0.0447 *

Mars 59123-03-09 11:17 G 23315358.90 23315358.97 23315359.05 0.1666 0.1285

Saturn 59124-08-19 08:38 G 23315887.78 23315887.86 23315887.94 0.0286 0.0227

Earth 59124-09-25 00:00 G 23315924.36 23315924.50 23315924.64 0.2654 0.1136

Moon 59124-09-25 00:58 G 23315924.41 23315924.54 23315924.68 0.2659 0.1111 *

Saturn 59124-11-15 21:07 G 23315976.25 23315976.38 23315976.52 0.0287 0.0066

Saturn 59125-02-12 09:36 G 23316064.77 23316064.90 23316065.03 0.0287 0.0094

Saturn 59125-05-11 21:50 G 23316153.35 23316153.41 23316153.47 0.0288 0.0253

Jupiter 59125-09-13 13:41 G 23316277.91 23316278.07 23316278.24 0.0493 0.0156

Jupiter 59131-05-20 11:46 G 23318352.86 23318352.99 23318353.12 0.0534 0.0070

Venus 59131-05-21 11:31 G 23318353.91 23318353.98 23318354.05 0.3682 0.2647

Mars 59132-07-29 21:07 G 23318789.26 23318789.38 23318789.50 0.1662 0.0413

Uranus 59132-09-08 03:36 G 23318829.57 23318829.65 23318829.75 0.0141 0.0123

Uranus 59132-12-05 11:02 G 23318917.83 23318917.96 23318918.11 0.0141 0.0094

Uranus 59133-03-03 18:29 G 23319006.11 23319006.27 23319006.45 0.0141 0.0064

Uranus 59133-05-31 02:10 G 23319094.41 23319094.59 23319094.77 0.0141 0.0034

Uranus 59133-08-27 09:50 G 23319182.72 23319182.91 23319183.09 0.0140 0.0005

Uranus 59133-11-23 17:17 G 23319271.04 23319271.22 23319271.41 0.0140 0.0026

Uranus 59134-02-20 00:43 G 23319359.37 23319359.53 23319359.71 0.0140 0.0057

Uranus 59134-05-19 08:24 G 23319447.71 23319447.85 23319448.01 0.0140 0.0087

Uranus 59134-08-15 15:50 G 23319536.07 23319536.16 23319536.28 0.0140 0.0117

Earth 59135-03-27 11:02 G 23319759.85 23319759.96 23319760.07 0.2677 0.0702

Moon 59135-03-27 11:46 G 23319759.89 23319759.99 23319760.10 0.2677 0.0823 *

Mars 59135-04-27 12:14 G 23319790.86 23319791.01 23319791.16 0.1864 0.0173

Venus 59136-12-04 02:53 G 23320377.52 23320377.62 23320377.72 0.3682 0.0140

Jupiter 59137-07-02 12:43 G 23320587.90 23320588.03 23320588.15 0.0492 0.0344

Earth 59137-09-28 05:02 G 23320675.57 23320675.71 23320675.85 0.2655 0.1043

Moon 59137-09-28 06:29 G 23320675.64 23320675.77 23320675.90 0.2658 0.1303 *

Jupiter 59137-09-30 17:02 G 23320678.14 23320678.21 23320678.29 0.0495 0.0448

Saturn 59138-09-12 17:17 G 23321025.16 23321025.22 23321025.28 0.0274 0.0255

Saturn 59138-12-10 12:58 G 23321113.87 23321114.04 23321114.22 0.0273 0.0073

Saturn 59139-03-09 08:53 G 23321202.72 23321202.87 23321203.04 0.0273 0.0112

Mars 59141-12-20 06:58 G 23322219.67 23322219.79 23322219.91 0.1658 0.0459

Venus 59142-06-19 18:29 G 23322401.19 23322401.27 23322401.34 0.3682 0.2388

Jupiter 59143-03-08 14:24 G 23322662.99 23322663.10 23322663.22 0.0535 0.0266

Jupiter 59143-06-05 22:34 G 23322752.37 23322752.44 23322752.51 0.0533 0.0440

Mars 59144-09-16 12:00 G 23323220.93 23323221.00 23323221.06 0.1869 0.1668

Earth 59148-03-29 05:17 G 23324510.64 23324510.72 23324510.80 0.2675 0.1865

Moon 59148-03-29 05:46 G 23324510.67 23324510.74 23324510.82 0.2671 0.1871 *

Jupiter 59149-07-19 15:07 G 23324987.98 23324988.13 23324988.29 0.0494 0.0244

Mars 59151-05-12 16:34 G 23325650.12 23325650.19 23325650.27 0.1654 0.1336

Saturn 59154-01-06 12:14 G 23326619.95 23326620.01 23326620.08 0.0286 0.0252

Saturn 59154-04-05 00:58 G 23326708.41 23326708.54 23326708.67 0.0286 0.0091

Saturn 59154-07-02 13:26 G 23326796.93 23326797.06 23326797.19 0.0287 0.0069

Saturn 59154-09-29 01:41 G 23326885.49 23326885.57 23326885.65 0.0287 0.0227

Jupiter 59154-12-25 18:00 G 23326973.18 23326973.25 23326973.32 0.0536 0.0446

Moon 59155-03-23 03:22 G 23327060.55 23327060.64 23327060.73 0.2685 0.1439

Earth 59155-03-23 03:22 G 23327060.55 23327060.64 23327060.73 0.2679 0.1477 *

Jupiter 59155-03-25 02:24 G 23327062.49 23327062.60 23327062.71 0.0533 0.0271

Jupiter 59161-05-07 12:43 G 23329297.85 23329298.03 23329298.21 0.0493 0.0033

Mars 59162-09-07 11:17 G 23329785.91 23329785.97 23329786.04 0.1667 0.1414

Jupiter 59167-01-11 06:29 G 23331372.64 23331372.77 23331372.90 0.0534 0.0105

Earth 59168-03-24 21:50 G 23331811.29 23331811.41 23331811.52 0.2678 0.0286

Moon 59168-03-24 22:19 G 23331811.32 23331811.43 23331811.54 0.2683 0.0224 *

Saturn 59168-04-28 13:12 G 23331845.89 23331846.05 23331846.21 0.0273 0.0120

Saturn 59168-07-26 09:07 G 23331934.70 23331934.88 23331935.05 0.0273 0.0063

Saturn 59168-10-23 05:02 G 23332023.65 23332023.71 23332023.79 0.0272 0.0248

Earth 59170-09-26 06:14 G 23332726.62 23332726.76 23332726.91 0.2654 0.0750

Moon 59170-09-26 07:26 G 23332726.67 23332726.81 23332726.96 0.2659 0.0567 *

Mars 59172-01-28 21:22 G 23333216.27 23333216.39 23333216.50 0.1662 0.0555

Venus 59172-11-30 00:29 G 23333522.40 23333522.52 23333522.63 0.3688 0.2288

Jupiter 59173-02-23 11:17 G 23333607.80 23333607.97 23333608.14 0.0493 0.0161

Mars 59174-10-26 12:43 G 23334217.88 23334218.03 23334218.18 0.1863 0.0392

Uranus 59176-03-06 15:07 G 23334715.07 23334715.13 23334715.20 0.0137 0.0120

Uranus 59176-06-02 18:29 G 23334803.19 23334803.27 23334803.37 0.0137 0.0100

Uranus 59176-08-29 22:05 G 23334891.31 23334891.42 23334891.53 0.0137 0.0080

Uranus 59176-11-26 01:26 G 23334979.44 23334979.56 23334979.68 0.0138 0.0060

Uranus 59177-02-22 04:48 G 23335067.57 23335067.70 23335067.83 0.0138 0.0039

Uranus 59177-05-21 08:10 G 23335155.71 23335155.84 23335155.98 0.0138 0.0019

Uranus 59177-08-17 11:31 G 23335243.85 23335243.98 23335244.12 0.0138 0.0002

Uranus 59177-11-13 14:53 G 23335331.99 23335332.12 23335332.25 0.0138 0.0021

Neptune 59177-12-18 15:22 G 23335367.14 23335367.14 23335367.16 0.0088 0.0088

Uranus 59178-02-09 18:14 G 23335420.13 23335420.26 23335420.39 0.0138 0.0041

Neptune 59178-03-16 18:43 G 23335455.20 23335455.28 23335455.37 0.0088 0.0078

Uranus 59178-05-08 21:36 G 23335508.28 23335508.40 23335508.52 0.0138 0.0061

Neptune 59178-06-12 21:50 G 23335543.30 23335543.41 23335543.54 0.0088 0.0067

Uranus 59178-08-05 00:58 G 23335596.43 23335596.54 23335596.65 0.0138 0.0081

Neptune 59178-09-09 00:58 G 23335631.41 23335631.54 23335631.70 0.0088 0.0057

Jupiter 59178-10-30 10:05 G 23335682.79 23335682.92 23335683.05 0.0534 0.0072

Uranus 59178-11-01 04:19 G 23335684.59 23335684.68 23335684.77 0.0138 0.0101

Neptune 59178-12-06 04:19 G 23335719.53 23335719.68 23335719.85 0.0088 0.0046

Uranus 59179-01-28 07:26 G 23335772.76 23335772.81 23335772.88 0.0138 0.0122

Neptune 59179-03-04 07:26 G 23335807.65 23335807.81 23335808.00 0.0088 0.0036

Neptune 59179-05-31 10:48 G 23335895.78 23335895.95 23335896.14 0.0088 0.0025

Neptune 59179-08-27 14:24 G 23335983.91 23335984.10 23335984.28 0.0088 0.0015

Neptune 59179-11-23 17:31 G 23336072.04 23336072.23 23336072.42 0.0088 0.0004

Neptune 59180-02-19 20:53 G 23336160.18 23336160.37 23336160.56 0.0088 0.0007

Neptune 59180-05-18 00:14 G 23336248.32 23336248.51 23336248.69 0.0088 0.0018

Neptune 59180-08-14 03:22 G 23336336.46 23336336.64 23336336.82 0.0088 0.0028

Neptune 59180-11-10 06:29 G 23336424.61 23336424.77 23336424.95 0.0088 0.0039

Neptune 59181-02-06 09:50 G 23336512.77 23336512.91 23336513.08 0.0088 0.0050

Earth 59181-03-27 16:05 G 23336562.06 23336562.17 23336562.27 0.2676 0.0925

Moon 59181-03-27 16:48 G 23336562.09 23336562.20 23336562.30 0.2675 0.0992 *

Neptune 59181-05-05 13:26 G 23336600.92 23336601.06 23336601.20 0.0088 0.0061

Mars 59181-06-20 06:58 G 23336646.67 23336646.79 23336646.91 0.1658 0.0319

Neptune 59181-08-01 16:34 G 23336689.09 23336689.19 23336689.31 0.0088 0.0072

Neptune 59181-10-28 19:55 G 23336777.28 23336777.33 23336777.41 0.0088 0.0082

Saturn 59183-08-23 02:24 G 23337440.48 23337440.60 23337440.72 0.0287 0.0144

Earth 59183-09-29 11:17 G 23337477.85 23337477.97 23337478.10 0.2656 0.1444

Moon 59183-09-29 12:58 G 23337477.91 23337478.04 23337478.16 0.2657 0.1501 *

Saturn 59183-11-19 14:53 G 23337528.98 23337529.12 23337529.25 0.0287 0.0017

Saturn 59184-02-16 03:07 G 23337617.53 23337617.63 23337617.74 0.0288 0.0176

Mars 59184-03-17 12:29 G 23337647.93 23337648.02 23337648.11 0.1869 0.1451

Jupiter 59184-12-12 10:05 G 23337917.80 23337917.92 23337918.04 0.0493 0.0352

Jupiter 59185-03-12 14:38 G 23338008.03 23338008.11 23338008.19 0.0495 0.0441

Venus 59187-12-26 08:53 G 23339026.78 23339026.87 23339026.96 0.3682 0.1701

Moon 59188-03-20 13:12 G 23339112.01 23339112.05 23339112.09 0.2685 0.2476

Earth 59188-03-20 13:41 G 23339112.03 23339112.07 23339112.11 0.2680 0.2476 *

Jupiter 59190-08-18 13:26 G 23339992.94 23339993.06 23339993.17 0.0535 0.0255

Mars 59190-11-10 16:48 G 23340077.11 23340077.20 23340077.28 0.1654 0.1194

Jupiter 59190-11-15 21:22 G 23340082.33 23340082.39 23340082.46 0.0532 0.0450

Venus 59193-07-11 00:14 G 23341050.41 23341050.51 23341050.61 0.3682 0.0838

Earth 59194-03-30 10:05 G 23341312.85 23341312.92 23341312.99 0.2675 0.2082

Moon 59194-03-30 10:34 G 23341312.88 23341312.94 23341313.01 0.2671 0.2198 *

Jupiter 59196-12-29 13:12 G 23342317.89 23342318.05 23342318.20 0.0494 0.0244

Saturn 59197-09-15 13:12 G 23342577.92 23342578.05 23342578.20 0.0273 0.0167

Saturn 59197-12-13 09:22 G 23342666.71 23342666.89 23342667.07 0.0273 0.0017

Saturn 59198-03-12 05:17 G 23342755.61 23342755.72 23342755.85 0.0272 0.0202

Venus 59199-01-24 15:36 G 23343074.11 23343074.15 23343074.20 0.3681 0.3298

Earth 59201-03-23 08:10 G 23343862.74 23343862.84 23343862.94 0.2679 0.1249

Moon 59201-03-23 08:24 G 23343862.75 23343862.85 23343862.95 0.2685 0.1286 *

Mars 59202-03-08 11:31 G 23344212.94 23344212.98 23344213.02 0.1666 0.1552

Jupiter 59202-06-06 15:50 G 23344303.10 23344303.16 23344303.23 0.0536 0.0456

Jupiter 59202-09-04 00:29 G 23344392.40 23344392.52 23344392.63 0.0533 0.0262

Earth 59203-09-24 07:55 G 23344777.78 23344777.83 23344777.88 0.2653 0.2476

Moon 59203-09-24 08:24 G 23344777.80 23344777.85 23344777.90 0.2659 0.2472 *

Jupiter 59208-10-17 11:17 G 23346627.79 23346627.97 23346628.15 0.0493 0.0042

Mars 59211-07-29 21:07 G 23347643.27 23347643.38 23347643.50 0.1662 0.0686

Saturn 59213-01-09 06:14 G 23348172.65 23348172.76 23348172.87 0.0286 0.0167

Saturn 59213-04-07 18:43 G 23348261.15 23348261.28 23348261.42 0.0287 0.0010

Saturn 59213-07-05 07:12 G 23348349.69 23348349.80 23348349.91 0.0287 0.0152

Earth 59214-03-26 02:38 G 23348613.50 23348613.61 23348613.72 0.2677 0.0050

Moon 59214-03-26 03:07 G 23348613.52 23348613.63 23348613.74 0.2682 0.0071 *

Mars 59214-04-26 12:58 G 23348644.89 23348645.04 23348645.18 0.1864 0.0580

Jupiter 59214-06-23 04:05 G 23348702.54 23348702.67 23348702.80 0.0534 0.0087

Earth 59216-09-26 12:43 G 23349528.88 23349529.03 23349529.18 0.2654 0.0360

Moon 59216-09-26 13:55 G 23349528.93 23349529.08 23349529.23 0.2659 0.0284 *

Uranus 59216-09-28 11:02 G 23349530.87 23349530.96 23349531.08 0.0141 0.0114

Uranus 59216-12-25 18:43 G 23349619.14 23349619.28 23349619.44 0.0141 0.0084

Uranus 59217-03-24 02:10 G 23349707.43 23349707.59 23349707.77 0.0141 0.0055

Uranus 59217-06-20 09:50 G 23349795.73 23349795.91 23349796.10 0.0140 0.0024

Uranus 59217-09-16 17:31 G 23349884.04 23349884.23 23349884.41 0.0140 0.0006

Uranus 59217-12-14 00:58 G 23349972.36 23349972.54 23349972.72 0.0140 0.0036

Uranus 59218-03-12 08:24 G 23350060.69 23350060.85 23350061.03 0.0140 0.0066

Uranus 59218-06-08 16:05 G 23350149.04 23350149.17 23350149.32 0.0140 0.0096

Uranus 59218-09-04 23:46 G 23350237.42 23350237.49 23350237.58 0.0140 0.0126

Jupiter 59220-08-05 08:38 G 23350937.70 23350937.86 23350938.03 0.0493 0.0168

Mars 59220-12-19 07:12 G 23351073.67 23351073.80 23351073.92 0.1658 0.0187

Mars 59223-09-16 12:58 G 23352074.93 23352075.04 23352075.15 0.1869 0.1225

Jupiter 59226-04-11 08:10 G 23353012.71 23353012.84 23353012.97 0.0535 0.0083

Saturn 59227-02-02 14:10 G 23353309.98 23353310.09 23353310.21 0.0273 0.0206

Earth 59227-03-28 20:53 G 23353364.27 23353364.37 23353364.47 0.2676 0.1141

Moon 59227-03-28 21:36 G 23353364.30 23353364.40 23353364.50 0.2675 0.1227 *

Saturn 59227-05-02 10:05 G 23353398.74 23353398.92 23353399.10 0.0273 0.0025

Saturn 59227-07-30 06:00 G 23353487.61 23353487.75 23353487.90 0.0272 0.0159

Venus 59229-07-07 01:55 G 23354195.43 23354195.58 23354195.73 0.3689 0.0355

Earth 59229-09-29 17:46 G 23354280.13 23354280.24 23354280.35 0.2656 0.1844

Moon 59229-09-29 19:26 G 23354280.21 23354280.31 23354280.40 0.2655 0.2089 *

Mars 59230-05-11 16:48 G 23354504.11 23354504.20 23354504.30 0.1654 0.1051

Jupiter 59232-05-24 07:26 G 23355247.69 23355247.81 23355247.93 0.0492 0.0359

Jupiter 59232-08-22 11:46 G 23355337.91 23355337.99 23355338.08 0.0495 0.0432

Moon 59234-03-21 18:14 G 23355914.21 23355914.26 23355914.32 0.2685 0.2355

Earth 59234-03-21 18:43 G 23355914.22 23355914.28 23355914.34 0.2680 0.2241 *

Jupiter 59238-01-28 11:31 G 23357322.87 23357322.98 23357323.10 0.0535 0.0260

Jupiter 59238-04-27 19:41 G 23357412.25 23357412.32 23357412.39 0.0532 0.0447

Venus 59239-01-16 14:38 G 23357676.07 23357676.11 23357676.15 0.3683 0.3304

Earth 59240-03-30 14:53 G 23358115.07 23358115.12 23358115.18 0.2675 0.2300

Moon 59240-03-30 15:22 G 23358115.09 23358115.14 23358115.20 0.2670 0.2306 *

Saturn 59242-05-29 07:41 G 23358904.73 23358904.82 23358904.90 0.0286 0.0221

Saturn 59242-08-25 20:10 G 23358993.21 23358993.34 23358993.47 0.0287 0.0060

Saturn 59242-11-22 08:38 G 23359081.73 23359081.86 23359081.98 0.0287 0.0100

Saturn 59243-02-18 20:38 G 23359170.31 23359170.36 23359170.43 0.0288 0.0259

Jupiter 59244-06-10 10:19 G 23359647.77 23359647.93 23359648.09 0.0494 0.0233

Venus 59244-08-01 06:14 G 23359699.66 23359699.76 23359699.86 0.3682 0.0754

Earth 59247-03-24 13:12 G 23360664.95 23360665.05 23360665.15 0.2678 0.1017

Moon 59247-03-24 13:26 G 23360664.96 23360665.06 23360665.17 0.2685 0.0924 *

Earth 59249-09-24 14:24 G 23361580.01 23361580.10 23361580.19 0.2653 0.2091

Moon 59249-09-24 14:53 G 23361580.03 23361580.12 23361580.22 0.2659 0.1973 *

Jupiter 59249-11-16 14:53 G 23361633.05 23361633.12 23361633.19 0.0536 0.0444

Jupiter 59250-02-13 23:17 G 23361722.36 23361722.47 23361722.58 0.0533 0.0271

Venus 59250-02-14 21:36 G 23361723.31 23361723.40 23361723.49 0.3682 0.1749

Mars 59251-01-27 21:22 G 23362070.28 23362070.39 23362070.50 0.1662 0.0826

Mars 59253-10-25 13:26 G 23363071.93 23363072.06 23363072.20 0.1864 0.0815

Jupiter 59256-03-29 08:53 G 23363957.70 23363957.87 23363958.05 0.0494 0.0041

Saturn 59256-06-21 14:10 G 23364042.04 23364042.09 23364042.16 0.0273 0.0254

Saturn 59256-09-18 10:05 G 23364130.75 23364130.92 23364131.09 0.0273 0.0073

Saturn 59256-12-16 06:00 G 23364219.59 23364219.75 23364219.92 0.0273 0.0111

Neptune 59258-10-15 18:43 G 23364888.24 23364888.28 23364888.33 0.0089 0.0083

Neptune 59259-01-11 20:10 G 23364976.27 23364976.34 23364976.42 0.0089 0.0075

Neptune 59259-04-09 21:36 G 23365064.32 23365064.40 23365064.50 0.0089 0.0067

Neptune 59259-07-06 23:02 G 23365152.37 23365152.46 23365152.57 0.0089 0.0059

Neptune 59259-10-03 00:29 G 23365240.42 23365240.52 23365240.64 0.0089 0.0051

Uranus 59259-12-29 19:12 G 23365328.28 23365328.30 23365328.34 0.0137 0.0133

Neptune 59259-12-30 02:10 G 23365328.47 23365328.59 23365328.71 0.0089 0.0043

Earth 59260-03-26 07:26 G 23365415.70 23365415.81 23365415.92 0.2677 0.0191

Moon 59260-03-26 08:10 G 23365415.73 23365415.84 23365415.95 0.2680 0.0211 *

Uranus 59260-03-26 22:48 G 23365416.38 23365416.45 23365416.53 0.0137 0.0113

Neptune 59260-03-27 03:36 G 23365416.52 23365416.65 23365416.77 0.0089 0.0035 *

Mars 59260-06-19 07:12 G 23365500.67 23365500.80 23365500.92 0.1658 0.0049

Uranus 59260-06-23 02:10 G 23365504.50 23365504.59 23365504.70 0.0137 0.0093

Neptune 59260-06-23 05:02 G 23365504.58 23365504.71 23365504.84 0.0089 0.0027 *

Uranus 59260-09-19 05:31 G 23365592.62 23365592.73 23365592.85 0.0137 0.0073

Neptune 59260-09-19 06:29 G 23365592.64 23365592.77 23365592.90 0.0089 0.0019 *

Neptune 59260-12-16 07:55 G 23365680.69 23365680.83 23365680.96 0.0089 0.0011

Uranus 59260-12-16 09:07 G 23365680.76 23365680.88 23365681.00 0.0138 0.0052 *

Neptune 59261-03-14 09:22 G 23365768.75 23365768.89 23365769.02 0.0089 0.0003

Uranus 59261-03-14 12:29 G 23365768.89 23365769.02 23365769.15 0.0138 0.0032 *

Neptune 59261-06-10 10:48 G 23365856.81 23365856.95 23365857.08 0.0089 0.0006

Uranus 59261-06-10 15:50 G 23365857.03 23365857.16 23365857.30 0.0138 0.0012 *

Neptune 59261-09-06 12:14 G 23365944.87 23365945.01 23365945.14 0.0089 0.0014

Uranus 59261-09-06 19:12 G 23365945.17 23365945.30 23365945.44 0.0138 0.0009

Jupiter 59261-12-03 02:10 G 23366032.46 23366032.59 23366032.72 0.0534 0.0079

Neptune 59261-12-03 13:41 G 23366032.94 23366033.07 23366033.20 0.0089 0.0021

Uranus 59261-12-03 22:34 G 23366033.31 23366033.44 23366033.57 0.0138 0.0029

Neptune 59262-03-01 14:53 G 23366121.00 23366121.12 23366121.25 0.0089 0.0029

Uranus 59262-03-02 01:55 G 23366121.46 23366121.58 23366121.71 0.0138 0.0049

Neptune 59262-05-28 16:19 G 23366209.06 23366209.18 23366209.31 0.0089 0.0037

Uranus 59262-05-29 05:17 G 23366209.61 23366209.72 23366209.84 0.0138 0.0069

Neptune 59262-08-24 17:46 G 23366297.13 23366297.24 23366297.36 0.0089 0.0045

Uranus 59262-08-25 08:24 G 23366297.76 23366297.85 23366297.96 0.0138 0.0090

Earth 59262-09-27 18:58 G 23366331.14 23366331.29 23366331.44 0.2655 0.0050

Moon 59262-09-27 20:10 G 23366331.19 23366331.34 23366331.49 0.2658 0.0196 *

Neptune 59262-11-20 18:58 G 23366385.19 23366385.29 23366385.41 0.0089 0.0053

Uranus 59262-11-21 11:46 G 23366385.92 23366385.99 23366386.08 0.0138 0.0110

Neptune 59263-02-16 20:24 G 23366473.26 23366473.35 23366473.46 0.0089 0.0061

Uranus 59263-02-17 15:07 G 23366474.09 23366474.13 23366474.18 0.0138 0.0129

Mars 59263-03-17 13:12 G 23366501.93 23366502.05 23366502.17 0.1869 0.1040

Neptune 59263-05-15 22:05 G 23366561.33 23366561.42 23366561.50 0.0089 0.0069

Neptune 59263-08-11 23:17 G 23366649.41 23366649.47 23366649.54 0.0089 0.0076

Neptune 59263-11-08 00:29 G 23366737.49 23366737.52 23366737.57 0.0089 0.0084

Jupiter 59268-01-16 07:12 G 23368267.64 23368267.80 23368267.97 0.0493 0.0158

Mars 59269-11-09 16:48 G 23368931.10 23368931.20 23368931.31 0.1654 0.0919

Pluto 59270-02-06 15:50 G 23369020.11 23369020.16 23369020.24 0.0066 0.0060

Pluto 59270-05-05 16:34 G 23369108.10 23369108.19 23369108.30 0.0066 0.0049

Pluto 59270-08-01 17:17 G 23369196.11 23369196.22 23369196.34 0.0067 0.0038

Pluto 59270-10-28 18:00 G 23369284.12 23369284.25 23369284.38 0.0067 0.0027

Pluto 59271-01-24 18:43 G 23369372.14 23369372.28 23369372.42 0.0067 0.0016

Pluto 59271-04-22 19:12 G 23369460.16 23369460.30 23369460.44 0.0067 0.0005

Pluto 59271-07-19 19:55 G 23369548.19 23369548.33 23369548.47 0.0067 0.0006

Pluto 59271-10-15 20:24 G 23369636.22 23369636.35 23369636.49 0.0067 0.0017

Saturn 59271-10-16 11:17 G 23369636.91 23369636.97 23369637.04 0.0286 0.0245

Pluto 59272-01-11 21:07 G 23369724.25 23369724.38 23369724.51 0.0067 0.0028

Saturn 59272-01-13 00:00 G 23369725.37 23369725.50 23369725.63 0.0287 0.0084

Pluto 59272-04-08 21:50 G 23369812.29 23369812.41 23369812.52 0.0067 0.0039

Saturn 59272-04-10 12:29 G 23369813.89 23369814.02 23369814.15 0.0287 0.0076

Pluto 59272-07-05 22:19 G 23369900.34 23369900.43 23369900.53 0.0067 0.0050

Saturn 59272-07-08 00:43 G 23369902.46 23369902.53 23369902.61 0.0288 0.0234

Pluto 59272-10-01 23:02 G 23369988.40 23369988.46 23369988.52 0.0067 0.0061

Earth 59273-03-29 01:41 G 23370166.48 23370166.57 23370166.67 0.2676 0.1358

Moon 59273-03-29 02:24 G 23370166.51 23370166.60 23370166.70 0.2674 0.1456 *

Jupiter 59273-09-21 05:46 G 23370342.61 23370342.74 23370342.87 0.0535 0.0100

Earth 59275-10-01 00:14 G 23371082.43 23371082.51 23371082.59 0.2656 0.2242

Moon 59275-10-01 01:55 G 23371082.51 23371082.58 23371082.65 0.2655 0.2343 *

Jupiter 59279-11-04 05:02 G 23372577.59 23372577.71 23372577.82 0.0492 0.0366

Jupiter 59280-02-02 09:07 G 23372667.79 23372667.88 23372667.98 0.0494 0.0423

Moon 59280-03-21 23:31 G 23372716.40 23372716.48 23372716.55 0.2686 0.1991

Earth 59280-03-21 23:31 G 23372716.41 23372716.48 23372716.56 0.2680 0.2012 *

Jupiter 59285-07-10 09:36 G 23374652.79 23374652.90 23374653.01 0.0535 0.0270

Jupiter 59285-10-07 17:46 G 23374742.17 23374742.24 23374742.31 0.0533 0.0438

Saturn 59286-02-05 11:17 G 23374862.81 23374862.97 23374863.14 0.0273 0.0109

Venus 59286-02-11 03:50 G 23374868.57 23374868.66 23374868.74 0.3689 0.3083

Earth 59286-03-31 19:55 G 23374917.29 23374917.33 23374917.36 0.2675 0.2513

Moon 59286-03-31 20:10 G 23374917.31 23374917.34 23374917.37 0.2668 0.2545 *

Saturn 59286-05-05 07:12 G 23374951.63 23374951.80 23374951.98 0.0273 0.0074

Saturn 59286-08-02 03:22 G 23375040.59 23375040.64 23375040.70 0.0272 0.0258

Mars 59290-07-28 21:22 G 23376497.29 23376497.39 23376497.49 0.1662 0.0962

Jupiter 59291-11-21 07:26 G 23376977.66 23376977.81 23376977.97 0.0494 0.0224

Earth 59293-03-24 18:00 G 23377467.15 23377467.25 23377467.36 0.2678 0.0794

Moon 59293-03-24 18:29 G 23377467.16 23377467.27 23377467.37 0.2685 0.0829 *

Mars 59293-04-25 13:55 G 23377498.96 23377499.08 23377499.21 0.1863 0.1022

Venus 59295-08-23 12:00 G 23378348.93 23378349.00 23378349.08 0.3682 0.2349

Earth 59295-09-25 20:38 G 23378382.24 23378382.36 23378382.47 0.2653 0.1710

Moon 59295-09-25 21:22 G 23378382.28 23378382.39 23378382.50 0.2660 0.1716 *

Jupiter 59297-04-28 13:12 G 23378962.98 23378963.05 23378963.12 0.0536 0.0449

Jupiter 59297-07-26 21:36 G 23379052.29 23379052.40 23379052.51 0.0533 0.0268

Mars 59299-12-19 07:12 G 23379927.68 23379927.80 23379927.93 0.1658 0.0100

Uranus 59300-07-23 11:02 G 23380143.92 23380143.96 23380144.03 0.0141 0.0135

Uranus 59300-10-19 18:43 G 23380232.16 23380232.28 23380232.41 0.0141 0.0105

Uranus 59301-01-16 02:10 G 23380320.44 23380320.59 23380320.75 0.0141 0.0076

Venus 59301-03-09 03:36 G 23380372.55 23380372.65 23380372.75 0.3682 0.0191

Uranus 59301-04-14 09:36 G 23380408.73 23380408.90 23380409.08 0.0141 0.0046

Saturn 59301-06-02 01:12 G 23380457.43 23380457.55 23380457.67 0.0287 0.0138

Uranus 59301-07-11 17:17 G 23380497.03 23380497.22 23380497.41 0.0140 0.0016

Saturn 59301-08-29 13:55 G 23380545.94 23380546.08 23380546.21 0.0287 0.0024

Uranus 59301-10-08 00:43 G 23380585.35 23380585.53 23380585.72 0.0140 0.0014

Saturn 59301-11-26 02:10 G 23380634.49 23380634.59 23380634.70 0.0288 0.0182

Uranus 59302-01-04 08:10 G 23380673.67 23380673.84 23380674.03 0.0140 0.0045

Uranus 59302-04-02 15:50 G 23380762.01 23380762.16 23380762.33 0.0140 0.0074

Uranus 59302-06-29 23:31 G 23380850.36 23380850.48 23380850.61 0.0140 0.0105

Mars 59302-09-16 13:41 G 23380928.93 23380929.07 23380929.20 0.1869 0.0829

Uranus 59302-09-26 06:58 G 23380938.76 23380938.79 23380938.85 0.0140 0.0135

Jupiter 59303-09-10 06:00 G 23381287.58 23381287.75 23381287.93 0.0494 0.0030

Earth 59306-03-28 12:29 G 23382217.91 23382218.02 23382218.13 0.2677 0.0413

Moon 59306-03-28 13:12 G 23382217.94 23382218.05 23382218.16 0.2678 0.0561 *

Venus 59306-09-22 18:58 G 23382396.22 23382396.29 23382396.36 0.3681 0.2681

Earth 59308-09-29 01:26 G 23383133.41 23383133.56 23383133.71 0.2655 0.0430

Moon 59308-09-29 02:53 G 23383133.47 23383133.62 23383133.76 0.2657 0.0606 *

Mars 59309-05-11 17:02 G 23383358.10 23383358.21 23383358.32 0.1654 0.0772

Jupiter 59309-05-16 01:12 G 23383362.42 23383362.55 23383362.68 0.0534 0.0090

Saturn 59315-06-26 11:02 G 23385594.82 23385594.96 23385595.11 0.0273 0.0160

Jupiter 59315-06-29 05:02 G 23385597.54 23385597.71 23385597.88 0.0493 0.0161

Saturn 59315-09-23 06:58 G 23385683.61 23385683.79 23385683.97 0.0273 0.0022

Saturn 59315-12-21 03:07 G 23385772.51 23385772.63 23385772.74 0.0272 0.0206

Mars 59318-10-02 02:38 G 23386788.61 23386788.61 23386788.61 0.1650 0.1647

Earth 59319-03-31 06:43 G 23386968.69 23386968.78 23386968.86 0.2676 0.1584

Moon 59319-03-31 07:12 G 23386968.72 23386968.80 23386968.89 0.2674 0.1629 *

Jupiter 59321-03-04 03:50 G 23387672.54 23387672.66 23387672.79 0.0534 0.0105

Earth 59321-10-02 06:43 G 23387884.77 23387884.78 23387884.78 0.2656 0.2651

Moon 59326-03-24 04:34 G 23389518.61 23389518.69 23389518.77 0.2687 0.1828

Earth 59326-03-24 04:34 G 23389518.61 23389518.69 23389518.77 0.2680 0.1777 *

Jupiter 59327-04-17 03:22 G 23389907.53 23389907.64 23389907.77 0.0492 0.0356

Jupiter 59327-07-16 07:41 G 23389997.74 23389997.82 23389997.91 0.0495 0.0435

Mars 59330-01-27 21:22 G 23390924.30 23390924.39 23390924.49 0.1662 0.1092

Saturn 59330-10-20 04:48 G 23391189.59 23391189.70 23391189.82 0.0286 0.0165

Saturn 59331-01-16 17:31 G 23391278.09 23391278.23 23391278.36 0.0287 0.0004

Saturn 59331-04-15 05:46 G 23391366.63 23391366.74 23391366.86 0.0287 0.0156

Mars 59332-10-25 14:10 G 23391925.98 23391926.09 23391926.21 0.1864 0.1220

Jupiter 59332-12-21 07:12 G 23391982.70 23391982.80 23391982.92 0.0535 0.0287

Jupiter 59333-03-20 15:22 G 23392072.07 23392072.14 23392072.22 0.0533 0.0424

Venus 59337-03-04 21:22 G 23393517.27 23393517.39 23393517.51 0.3688 0.2297

Earth 59339-03-26 23:02 G 23394269.35 23394269.46 23394269.57 0.2678 0.0566

Moon 59339-03-26 23:17 G 23394269.36 23394269.47 23394269.58 0.2684 0.0466 *

Jupiter 59339-05-04 04:48 G 23394307.55 23394307.70 23394307.87 0.0494 0.0217

Mars 59339-06-20 07:26 G 23394354.68 23394354.81 23394354.93 0.1658 0.0238

Earth 59341-09-27 02:53 G 23395184.49 23395184.62 23395184.75 0.2653 0.1326

Moon 59341-09-27 03:50 G 23395184.52 23395184.66 23395184.79 0.2659 0.1159 *

Mars 59342-03-17 14:10 G 23395355.95 23395356.09 23395356.24 0.1869 0.0597

Neptune 59342-09-15 13:26 G 23395538.02 23395538.06 23395538.13 0.0088 0.0084

Neptune 59342-12-12 17:02 G 23395626.11 23395626.21 23395626.31 0.0088 0.0074

Neptune 59343-03-10 19:55 G 23395714.21 23395714.33 23395714.47 0.0088 0.0063

Neptune 59343-06-06 23:02 G 23395802.33 23395802.46 23395802.63 0.0088 0.0053

Neptune 59343-09-03 02:24 G 23395890.45 23395890.60 23395890.78 0.0088 0.0042

Neptune 59343-11-30 05:31 G 23395978.57 23395978.73 23395978.92 0.0088 0.0033

Uranus 59344-01-20 02:53 G 23396029.57 23396029.62 23396029.68 0.0137 0.0126

Neptune 59344-02-26 09:07 G 23396066.70 23396066.88 23396067.06 0.0088 0.0021

Uranus 59344-04-17 06:29 G 23396117.68 23396117.77 23396117.85 0.0137 0.0106

Neptune 59344-05-24 12:29 G 23396154.83 23396155.02 23396155.20 0.0088 0.0011

Uranus 59344-07-14 09:50 G 23396205.80 23396205.91 23396206.02 0.0137 0.0085

Neptune 59344-08-20 15:36 G 23396242.96 23396243.15 23396243.34 0.0088 0.0001

Jupiter 59344-10-09 11:02 G 23396292.90 23396292.96 23396293.03 0.0536 0.0461

Uranus 59344-10-10 13:12 G 23396293.93 23396294.05 23396294.17 0.0137 0.0065

Saturn 59344-11-12 12:29 G 23396326.91 23396327.02 23396327.16 0.0273 0.0194

Neptune 59344-11-16 18:58 G 23396331.10 23396331.29 23396331.48 0.0088 0.0011

Uranus 59345-01-06 16:34 G 23396382.07 23396382.19 23396382.32 0.0138 0.0045

Jupiter 59345-01-06 19:41 G 23396382.20 23396382.32 23396382.43 0.0534 0.0259 *

Saturn 59345-02-09 08:24 G 23396415.68 23396415.85 23396416.03 0.0273 0.0013

Neptune 59345-02-12 22:19 G 23396419.24 23396419.43 23396419.61 0.0088 0.0022

Uranus 59345-04-04 19:55 G 23396470.20 23396470.33 23396470.47 0.0138 0.0025

Saturn 59345-05-09 04:19 G 23396504.55 23396504.68 23396504.83 0.0272 0.0171

Neptune 59345-05-12 01:26 G 23396507.39 23396507.56 23396507.74 0.0088 0.0032

Uranus 59345-07-01 23:17 G 23396558.34 23396558.47 23396558.61 0.0138 0.0007

Neptune 59345-08-08 04:34 G 23396595.54 23396595.69 23396595.87 0.0088 0.0043

Uranus 59345-09-28 02:53 G 23396646.48 23396646.62 23396646.75 0.0138 0.0016

Neptune 59345-11-04 07:41 G 23396683.69 23396683.82 23396683.99 0.0088 0.0055

Uranus 59345-12-25 06:00 G 23396734.63 23396734.75 23396734.88 0.0138 0.0036

Neptune 59346-01-31 11:31 G 23396771.85 23396771.98 23396772.11 0.0088 0.0065

Uranus 59346-03-23 09:22 G 23396822.77 23396822.89 23396823.02 0.0138 0.0056

Neptune 59346-04-29 14:38 G 23396860.02 23396860.11 23396860.22 0.0088 0.0076

Uranus 59346-06-19 12:43 G 23396910.92 23396911.03 23396911.15 0.0138 0.0076

Neptune 59346-07-26 17:46 G 23396948.22 23396948.24 23396948.30 0.0088 0.0087

Uranus 59346-09-15 16:05 G 23396999.08 23396999.17 23396999.27 0.0138 0.0096

Uranus 59346-12-12 19:12 G 23397087.24 23397087.30 23397087.38 0.0138 0.0117

Uranus 59347-03-10 22:34 G 23397175.43 23397175.44 23397175.47 0.0138 0.0136

Mars 59348-11-09 17:02 G 23397785.10 23397785.21 23397785.33 0.1654 0.0635

Jupiter 59351-02-20 03:22 G 23398617.46 23398617.64 23398617.82 0.0493 0.0022

Earth 59352-03-28 17:17 G 23399020.11 23399020.22 23399020.33 0.2677 0.0629

Moon 59352-03-28 18:00 G 23399020.14 23399020.25 23399020.36 0.2678 0.0651 *

Venus 59352-03-30 09:36 G 23399021.80 23399021.90 23399021.99 0.3682 0.1399

Earth 59354-09-30 07:41 G 23399935.68 23399935.82 23399935.97 0.2655 0.0829

Moon 59354-09-30 09:22 G 23399935.75 23399935.89 23399936.03 0.2656 0.0927 *

Jupiter 59356-10-25 23:31 G 23400692.35 23400692.48 23400692.61 0.0534 0.0088

Pluto 59357-05-20 22:19 G 23400899.36 23400899.43 23400899.52 0.0078 0.0069

Pluto 59357-08-17 00:29 G 23400987.39 23400987.52 23400987.67 0.0077 0.0048

Venus 59357-10-14 00:58 G 23401045.44 23401045.54 23401045.64 0.3682 0.1129

Pluto 59357-11-13 02:38 G 23401075.45 23401075.61 23401075.78 0.0077 0.0026

Pluto 59358-02-09 04:48 G 23401163.52 23401163.70 23401163.88 0.0077 0.0005

Mars 59358-04-02 02:53 G 23401215.57 23401215.62 23401215.67 0.1650 0.1503

Pluto 59358-05-08 06:43 G 23401251.61 23401251.78 23401251.96 0.0077 0.0016

Pluto 59358-08-04 08:38 G 23401339.72 23401339.86 23401340.03 0.0077 0.0037

Pluto 59358-10-31 10:48 G 23401427.85 23401427.95 23401428.08 0.0077 0.0058

Saturn 59360-03-08 06:00 G 23401921.67 23401921.75 23401921.84 0.0286 0.0219

Saturn 59360-06-04 18:43 G 23402010.15 23402010.28 23402010.41 0.0287 0.0058

Saturn 59360-09-01 07:12 G 23402098.67 23402098.80 23402098.93 0.0287 0.0102

Saturn 59360-11-28 19:26 G 23402187.26 23402187.31 23402187.37 0.0288 0.0260

Jupiter 59362-12-09 02:10 G 23402927.42 23402927.59 23402927.76 0.0493 0.0172

Venus 59363-04-29 16:19 G 23403069.17 23403069.18 23403069.20 0.3681 0.3615

Earth 59365-03-31 11:31 G 23403770.90 23403770.98 23403771.06 0.2676 0.1797

Moon 59365-03-31 12:00 G 23403770.93 23403771.00 23403771.08 0.2672 0.1909 *

Jupiter 59368-08-14 02:53 G 23405002.49 23405002.62 23405002.75 0.0534 0.0092

Mars 59369-07-28 21:36 G 23405351.32 23405351.40 23405351.48 0.1662 0.1229

Moon 59372-03-24 09:22 G 23406320.80 23406320.89 23406320.99 0.2687 0.1531

Earth 59372-03-24 09:22 G 23406320.80 23406320.89 23406320.99 0.2679 0.1550 *

Mars 59372-04-25 14:53 G 23406353.02 23406353.12 23406353.21 0.1863 0.1443

Saturn 59374-04-01 11:46 G 23407058.93 23407058.99 23407059.08 0.0273 0.0249

Saturn 59374-06-29 07:41 G 23407147.65 23407147.82 23407147.99 0.0273 0.0067

Saturn 59374-09-26 03:36 G 23407236.49 23407236.65 23407236.81 0.0272 0.0115

Jupiter 59374-09-27 01:12 G 23407237.43 23407237.55 23407237.67 0.0492 0.0358

Jupiter 59374-12-26 05:31 G 23407327.65 23407327.73 23407327.82 0.0495 0.0432

Mars 59378-12-19 07:26 G 23408781.69 23408781.81 23408781.93 0.1658 0.0369

Jupiter 59380-06-02 05:46 G 23409312.63 23409312.74 23409312.85 0.0535 0.0288

Jupiter 59380-08-30 13:41 G 23409402.00 23409402.07 23409402.15 0.0533 0.0422

Mars 59381-09-15 14:24 G 23409782.95 23409783.10 23409783.25 0.1869 0.0415

Uranus 59384-08-12 18:43 G 23410845.21 23410845.28 23410845.38 0.0141 0.0125

Uranus 59384-11-09 02:24 G 23410933.47 23410933.60 23410933.74 0.0141 0.0095

Uranus 59385-02-05 09:50 G 23411021.75 23411021.91 23411022.08 0.0141 0.0066

Earth 59385-03-27 03:50 G 23411071.55 23411071.66 23411071.77 0.2678 0.0337

Moon 59385-03-27 04:19 G 23411071.57 23411071.68 23411071.80 0.2682 0.0333 *

Uranus 59385-05-04 17:31 G 23411110.05 23411110.23 23411110.41 0.0140 0.0035

Uranus 59385-08-01 00:58 G 23411198.36 23411198.54 23411198.73 0.0140 0.0006

Uranus 59385-10-28 08:38 G 23411286.67 23411286.86 23411287.04 0.0140 0.0025

Uranus 59386-01-24 16:19 G 23411375.00 23411375.18 23411375.35 0.0140 0.0055

Uranus 59386-04-22 23:31 G 23411463.34 23411463.48 23411463.64 0.0140 0.0085

Uranus 59386-07-20 07:12 G 23411551.71 23411551.80 23411551.92 0.0140 0.0115

Jupiter 59386-10-14 03:36 G 23411637.50 23411637.65 23411637.81 0.0494 0.0230

Earth 59387-09-28 09:07 G 23411986.74 23411986.88 23411987.03 0.2654 0.0944

Moon 59387-09-28 10:19 G 23411986.79 23411986.93 23411987.07 0.2658 0.0938 *

Mars 59388-05-10 17:17 G 23412212.10 23412212.22 23412212.34 0.1654 0.0500

Saturn 59389-07-26 09:22 G 23412653.83 23412653.89 23412653.95 0.0286 0.0250

Saturn 59389-10-22 22:05 G 23412742.29 23412742.42 23412742.55 0.0287 0.0089

Saturn 59390-01-19 10:34 G 23412830.81 23412830.94 23412831.07 0.0287 0.0072

Saturn 59390-04-17 22:48 G 23412919.37 23412919.45 23412919.53 0.0288 0.0230

Jupiter 59392-03-21 08:53 G 23413622.81 23413622.87 23413622.93 0.0536 0.0472

Jupiter 59392-06-18 17:31 G 23413712.11 23413712.23 23413712.34 0.0533 0.0247

Venus 59393-10-09 23:02 G 23414190.31 23414190.46 23414190.61 0.3689 0.0385

Mars 59397-10-01 02:53 G 23415642.55 23415642.62 23415642.69 0.1650 0.1364

Earth 59398-03-29 22:05 G 23415822.32 23415822.42 23415822.53 0.2677 0.0858

Moon 59398-03-29 23:02 G 23415822.35 23415822.46 23415822.56 0.2678 0.1014 *

Jupiter 59398-08-02 00:58 G 23415947.37 23415947.54 23415947.72 0.0493 0.0019

Earth 59400-10-01 14:10 G 23416737.96 23416738.09 23416738.23 0.2655 0.1222

Moon 59400-10-01 15:50 G 23416738.03 23416738.16 23416738.28 0.2656 0.1476 *

Venus 59403-04-22 15:22 G 23417671.08 23417671.14 23417671.20 0.3682 0.2992

Saturn 59403-11-17 09:22 G 23417879.73 23417879.89 23417880.06 0.0273 0.0099

Saturn 59404-02-14 05:17 G 23417968.55 23417968.72 23417968.89 0.0273 0.0083

Jupiter 59404-04-07 21:36 G 23418022.27 23418022.40 23418022.53 0.0534 0.0080

Saturn 59404-05-13 01:12 G 23418057.53 23418057.55 23418057.59 0.0272 0.0267

Moon 59405-03-23 19:26 G 23418372.29 23418372.31 23418372.33 0.2686 0.2635

Earth 59405-03-23 19:55 G 23418372.30 23418372.33 23418372.36 0.2680 0.2548 *

Venus 59408-11-05 06:58 G 23419694.69 23419694.79 23419694.89 0.3682 0.0443

Mars 59409-01-27 21:36 G 23419778.33 23419778.40 23419778.47 0.1662 0.1368

Jupiter 59410-05-21 23:46 G 23420257.32 23420257.49 23420257.66 0.0493 0.0177

Earth 59411-04-02 16:19 G 23420573.11 23420573.18 23420573.25 0.2676 0.2017

Moon 59411-04-02 16:48 G 23420573.13 23420573.20 23420573.27 0.2670 0.2003 *

Mars 59411-10-26 15:22 G 23420780.07 23420780.14 23420780.20 0.1863 0.1661

Venus 59414-05-21 22:19 G 23421718.35 23421718.43 23421718.52 0.3681 0.2067

Jupiter 59416-01-26 01:26 G 23422332.43 23422332.56 23422332.69 0.0535 0.0094

Earth 59418-03-26 14:24 G 23423123.00 23423123.10 23423123.20 0.2679 0.1314

Moon 59418-03-26 14:24 G 23423123.01 23423123.10 23423123.20 0.2686 0.1321 *

Mars 59418-06-20 07:26 G 23423208.69 23423208.81 23423208.93 0.1658 0.0508

Saturn 59419-03-12 23:02 G 23423474.35 23423474.46 23423474.58 0.0286 0.0144

Saturn 59419-06-09 11:46 G 23423562.85 23423562.99 23423563.12 0.0287 0.0017

Saturn 59419-09-06 00:00 G 23423651.40 23423651.50 23423651.61 0.0288 0.0176

Earth 59420-09-26 11:02 G 23424037.95 23424037.96 23424037.97 0.2652 0.2646

Mars 59421-03-17 14:53 G 23424209.97 23424210.12 23424210.27 0.1869 0.0196

Jupiter 59422-03-09 22:34 G 23424567.33 23424567.44 23424567.56 0.0492 0.0366

Jupiter 59422-06-08 02:53 G 23424657.53 23424657.62 23424657.71 0.0495 0.0423

Neptune 59423-04-17 16:34 G 23424971.18 23424971.19 23424971.21 0.0089 0.0089

Neptune 59423-07-14 18:00 G 23425059.20 23425059.25 23425059.31 0.0089 0.0081

Neptune 59423-10-10 19:26 G 23425147.24 23425147.31 23425147.40 0.0089 0.0073

Neptune 59424-01-06 20:53 G 23425235.29 23425235.37 23425235.47 0.0089 0.0065

Neptune 59424-04-03 22:19 G 23425323.33 23425323.43 23425323.55 0.0089 0.0057

Neptune 59424-06-30 23:46 G 23425411.39 23425411.49 23425411.61 0.0089 0.0049

Neptune 59424-09-27 01:12 G 23425499.44 23425499.55 23425499.68 0.0089 0.0041

Neptune 59424-12-24 02:53 G 23425587.49 23425587.62 23425587.75 0.0089 0.0032

Neptune 59425-03-22 04:19 G 23425675.55 23425675.68 23425675.81 0.0089 0.0024

Neptune 59425-06-18 05:46 G 23425763.61 23425763.74 23425763.87 0.0089 0.0016

Neptune 59425-09-14 07:12 G 23425851.67 23425851.80 23425851.94 0.0089 0.0008

Neptune 59425-12-11 08:38 G 23425939.73 23425939.86 23425940.00 0.0089 0.0001

Neptune 59426-03-09 10:05 G 23426027.79 23426027.92 23426028.06 0.0089 0.0008

Neptune 59426-06-05 11:31 G 23426115.85 23426115.98 23426116.11 0.0089 0.0016

Neptune 59426-09-01 12:43 G 23426203.91 23426204.03 23426204.17 0.0089 0.0024

Neptune 59426-11-28 14:10 G 23426291.97 23426292.09 23426292.22 0.0089 0.0032

Neptune 59427-02-24 15:36 G 23426380.04 23426380.15 23426380.28 0.0089 0.0040

Neptune 59427-05-23 16:48 G 23426468.10 23426468.20 23426468.33 0.0089 0.0049

Neptune 59427-08-19 18:29 G 23426556.17 23426556.27 23426556.38 0.0089 0.0055

Mars 59427-11-10 17:17 G 23426639.10 23426639.22 23426639.34 0.1654 0.0359

Jupiter 59427-11-14 04:48 G 23426642.59 23426642.70 23426642.81 0.0535 0.0273

Neptune 59427-11-15 19:55 G 23426644.24 23426644.33 23426644.43 0.0089 0.0063

Uranus 59428-02-10 10:19 G 23426730.87 23426730.93 23426731.00 0.0137 0.0119

Jupiter 59428-02-11 12:58 G 23426731.97 23426732.04 23426732.11 0.0533 0.0435

Neptune 59428-02-11 21:07 G 23426732.31 23426732.38 23426732.47 0.0089 0.0071

Uranus 59428-05-08 13:55 G 23426818.99 23426819.08 23426819.17 0.0137 0.0099

Neptune 59428-05-09 22:34 G 23426820.39 23426820.44 23426820.51 0.0089 0.0079

Uranus 59428-08-04 17:17 G 23426907.11 23426907.22 23426907.33 0.0137 0.0078

Neptune 59428-08-05 23:46 G 23426908.48 23426908.49 23426908.53 0.0089 0.0087

Uranus 59428-10-31 20:38 G 23426995.24 23426995.36 23426995.49 0.0137 0.0058

Uranus 59429-01-28 00:00 G 23427083.38 23427083.50 23427083.64 0.0138 0.0038

Uranus 59429-04-26 03:36 G 23427171.51 23427171.65 23427171.78 0.0138 0.0018

Uranus 59429-07-23 06:58 G 23427259.65 23427259.79 23427259.92 0.0138 0.0003

Uranus 59429-10-19 10:19 G 23427347.80 23427347.93 23427348.06 0.0138 0.0023

Uranus 59430-01-15 13:26 G 23427435.94 23427436.06 23427436.19 0.0138 0.0043

Uranus 59430-04-13 16:48 G 23427524.09 23427524.20 23427524.33 0.0138 0.0063

Uranus 59430-07-10 20:10 G 23427612.24 23427612.34 23427612.45 0.0138 0.0083

Uranus 59430-10-06 23:17 G 23427700.40 23427700.47 23427700.57 0.0138 0.0104

Uranus 59431-01-03 02:53 G 23427788.56 23427788.62 23427788.68 0.0138 0.0123

Earth 59431-03-29 08:53 G 23427873.75 23427873.87 23427873.98 0.2678 0.0140

Moon 59431-03-29 09:22 G 23427873.78 23427873.89 23427874.01 0.2681 0.0080 *

Saturn 59433-04-05 07:55 G 23428611.70 23428611.83 23428611.98 0.0273 0.0161

Saturn 59433-07-03 03:50 G 23428700.49 23428700.66 23428700.84 0.0273 0.0022

Earth 59433-09-29 15:36 G 23428789.00 23428789.15 23428789.30 0.2654 0.0559

Moon 59433-09-29 16:48 G 23428789.05 23428789.20 23428789.35 0.2657 0.0336 *

Saturn 59433-09-29 23:46 G 23428789.38 23428789.49 23428789.62 0.0272 0.0205

Jupiter 59434-03-27 01:26 G 23428967.41 23428967.56 23428967.72 0.0494 0.0230

Mars 59437-04-02 02:53 G 23430069.54 23430069.62 23430069.70 0.1650 0.1226

Jupiter 59439-09-02 07:26 G 23430952.76 23430952.81 23430952.88 0.0536 0.0470

Jupiter 59439-11-30 16:05 G 23431042.06 23431042.17 23431042.29 0.0533 0.0249

Earth 59444-03-31 03:07 G 23432624.53 23432624.63 23432624.73 0.2677 0.1076

Moon 59444-03-31 03:50 G 23432624.56 23432624.66 23432624.76 0.2676 0.1100 *

Jupiter 59446-01-13 00:00 G 23433277.32 23433277.50 23433277.68 0.0493 0.0031

Earth 59446-10-02 20:24 G 23433540.23 23433540.35 23433540.47 0.2655 0.1616

Moon 59446-10-02 22:05 G 23433540.30 23433540.42 23433540.54 0.2656 0.1693 *

Mars 59448-07-28 21:36 G 23434205.35 23434205.40 23434205.45 0.1662 0.1495

Saturn 59448-07-30 01:55 G 23434206.48 23434206.58 23434206.69 0.0287 0.0180

Saturn 59448-10-26 14:38 G 23434294.97 23434295.11 23434295.24 0.0287 0.0019

Saturn 59449-01-23 03:07 G 23434383.51 23434383.63 23434383.74 0.0288 0.0141

Venus 59450-05-18 00:58 G 23434863.46 23434863.54 23434863.62 0.3689 0.3133

Moon 59451-03-25 00:29 G 23435174.46 23435174.52 23435174.57 0.2687 0.2309

Earth 59451-03-25 00:43 G 23435174.48 23435174.53 23435174.59 0.2680 0.2315 *

Mars 59451-04-26 15:36 G 23435207.14 23435207.15 23435207.16 0.1864 0.1853

Jupiter 59451-09-18 19:41 G 23435352.19 23435352.32 23435352.45 0.0534 0.0073

Earth 59457-04-02 21:07 G 23437375.33 23437375.38 23437375.44 0.2676 0.2234

Moon 59457-04-02 21:36 G 23437375.35 23437375.40 23437375.45 0.2670 0.2344 *

Jupiter 59457-10-31 21:36 G 23437587.23 23437587.40 23437587.56 0.0493 0.0178

Mars 59457-12-19 07:41 G 23437635.70 23437635.82 23437635.93 0.1658 0.0644

Venus 59459-11-27 12:43 G 23438343.95 23438344.03 23438344.12 0.3682 0.2034

Mars 59460-09-15 15:22 G 23438636.99 23438637.14 23438637.29 0.1869 0.0049

Saturn 59462-08-23 09:50 G 23439343.79 23439343.91 23439344.04 0.0274 0.0192

Saturn 59462-11-20 05:31 G 23439432.55 23439432.73 23439432.91 0.0273 0.0012

Saturn 59463-02-17 01:26 G 23439521.43 23439521.56 23439521.70 0.0273 0.0172

Jupiter 59463-07-07 23:31 G 23439662.35 23439662.48 23439662.61 0.0535 0.0100

Earth 59464-03-26 19:12 G 23439925.20 23439925.30 23439925.41 0.2679 0.1092

Moon 59464-03-26 19:26 G 23439925.21 23439925.31 23439925.42 0.2685 0.1087 *

Venus 59465-06-12 04:19 G 23440367.58 23440367.68 23440367.78 0.3682 0.0505

Earth 59466-09-27 17:17 G 23440840.14 23440840.22 23440840.29 0.2652 0.2278

Moon 59466-09-27 17:46 G 23440840.16 23440840.24 23440840.32 0.2659 0.2193 *

Mars 59467-05-11 17:17 G 23441066.10 23441066.22 23441066.35 0.1654 0.0224

Uranus 59468-09-03 01:55 G 23441546.49 23441546.58 23441546.69 0.0141 0.0117

Uranus 59468-11-30 09:22 G 23441634.76 23441634.89 23441635.05 0.0141 0.0088

Uranus 59469-02-26 17:02 G 23441723.04 23441723.21 23441723.38 0.0141 0.0058

Uranus 59469-05-26 00:29 G 23441811.34 23441811.52 23441811.71 0.0140 0.0028

Jupiter 59469-08-19 20:24 G 23441897.24 23441897.35 23441897.47 0.0492 0.0367

Uranus 59469-08-22 08:10 G 23441899.65 23441899.84 23441900.03 0.0140 0.0003

Jupiter 59469-11-18 00:29 G 23441987.43 23441987.52 23441987.62 0.0494 0.0420

Uranus 59469-11-18 15:36 G 23441987.97 23441988.15 23441988.34 0.0140 0.0032

Mars 59470-02-05 15:22 G 23442067.10 23442067.14 23442067.17 0.1874 0.1806

Uranus 59470-02-14 23:02 G 23442076.30 23442076.46 23442076.64 0.0140 0.0063

Uranus 59470-05-14 06:43 G 23442164.65 23442164.78 23442164.93 0.0140 0.0092

Uranus 59470-08-10 14:10 G 23442253.02 23442253.09 23442253.19 0.0140 0.0123

Venus 59470-12-26 19:41 G 23442391.27 23442391.32 23442391.38 0.3681 0.2997

Jupiter 59475-04-26 03:22 G 23443972.53 23443972.64 23443972.75 0.0536 0.0273

Jupiter 59475-07-24 11:31 G 23444061.91 23444061.98 23444062.05 0.0533 0.0437

Mars 59476-10-01 03:07 G 23444496.53 23444496.63 23444496.72 0.1650 0.1084

Earth 59477-03-29 13:41 G 23444675.96 23444676.07 23444676.18 0.2678 0.0122

Moon 59477-03-29 14:24 G 23444675.99 23444676.10 23444676.21 0.2681 0.0181 *

Saturn 59477-12-17 02:53 G 23444938.55 23444938.62 23444938.70 0.0286 0.0236

Saturn 59478-03-15 15:36 G 23445027.02 23445027.15 23445027.29 0.0286 0.0076

Saturn 59478-06-12 04:05 G 23445115.54 23445115.67 23445115.80 0.0287 0.0085

Saturn 59478-09-08 16:19 G 23445204.12 23445204.18 23445204.26 0.0288 0.0243

Earth 59479-09-30 21:50 G 23445591.26 23445591.41 23445591.56 0.2654 0.0173

Moon 59479-09-30 23:17 G 23445591.32 23445591.47 23445591.62 0.2657 0.0112 *

Jupiter 59481-09-05 23:02 G 23446297.30 23446297.46 23446297.62 0.0494 0.0224

Jupiter 59487-02-12 06:43 G 23448282.71 23448282.78 23448282.85 0.0536 0.0453

Jupiter 59487-05-12 15:22 G 23448372.03 23448372.14 23448372.25 0.0533 0.0266

Mars 59488-01-27 21:50 G 23448632.39 23448632.41 23448632.43 0.1662 0.1634

Earth 59490-04-01 07:55 G 23449426.74 23449426.83 23449426.93 0.2677 0.1298

Moon 59490-04-01 08:38 G 23449426.77 23449426.86 23449426.96 0.2674 0.1413 *

Saturn 59492-01-10 07:55 G 23450075.78 23450075.83 23450075.90 0.0274 0.0257

Saturn 59492-04-08 03:36 G 23450164.48 23450164.65 23450164.82 0.0273 0.0077

Saturn 59492-07-05 23:31 G 23450253.32 23450253.48 23450253.65 0.0272 0.0106

Earth 59492-10-03 02:53 G 23450342.52 23450342.62 23450342.72 0.2656 0.2015

Moon 59492-10-03 04:19 G 23450342.61 23450342.68 23450342.76 0.2655 0.2274 *

Jupiter 59493-06-24 22:05 G 23450607.24 23450607.42 23450607.60 0.0493 0.0034

Moon 59497-03-25 05:31 G 23451976.66 23451976.73 23451976.79 0.2687 0.2183

Earth 59497-03-25 05:46 G 23451976.67 23451976.74 23451976.81 0.2680 0.2082 *

Mars 59497-06-19 07:41 G 23452062.71 23452062.82 23452062.93 0.1658 0.0776

Jupiter 59499-02-28 18:29 G 23452682.14 23452682.27 23452682.40 0.0534 0.0080

Mars 59500-03-17 15:36 G 23453064.00 23453064.15 23453064.30 0.1869 0.0213

Venus 59501-06-08 18:29 G 23453512.15 23453512.27 23453512.39 0.3689 0.2228

Earth 59503-04-05 02:10 G 23454177.55 23454177.59 23454177.63 0.2675 0.2450

Moon 59503-04-05 02:24 G 23454177.56 23454177.60 23454177.65 0.2670 0.2427 *

Jupiter 59505-04-13 20:38 G 23454917.19 23454917.36 23454917.53 0.0493 0.0160

Mars 59506-11-10 17:31 G 23455493.10 23455493.23 23455493.35 0.1654 0.0103

Saturn 59507-05-07 05:31 G 23455670.70 23455670.73 23455670.76 0.0286 0.0276

Neptune 59507-06-14 12:00 G 23455708.93 23455709.00 23455709.09 0.0088 0.0079

Saturn 59507-08-03 18:00 G 23455759.13 23455759.25 23455759.38 0.0287 0.0116

Neptune 59507-09-10 15:07 G 23455797.03 23455797.13 23455797.25 0.0088 0.0069

Saturn 59507-10-31 06:43 G 23455847.64 23455847.78 23455847.91 0.0287 0.0045

Neptune 59507-12-07 18:29 G 23455885.14 23455885.27 23455885.41 0.0088 0.0059

Saturn 59508-01-27 18:58 G 23455936.20 23455936.29 23455936.39 0.0288 0.0204

Neptune 59508-03-04 21:36 G 23455973.25 23455973.40 23455973.56 0.0088 0.0048

Neptune 59508-06-01 00:43 G 23456061.37 23456061.53 23456061.71 0.0088 0.0038

Neptune 59508-08-28 04:05 G 23456149.50 23456149.67 23456149.86 0.0088 0.0027

Neptune 59508-11-24 07:26 G 23456237.63 23456237.81 23456238.00 0.0088 0.0017

Neptune 59509-02-20 10:48 G 23456325.76 23456325.95 23456326.14 0.0088 0.0006

Neptune 59509-05-19 13:55 G 23456413.90 23456414.08 23456414.27 0.0088 0.0005

Mars 59509-08-07 15:36 G 23456494.08 23456494.15 23456494.23 0.1875 0.1598

Neptune 59509-08-15 17:17 G 23456502.03 23456502.22 23456502.41 0.0088 0.0015

Neptune 59509-11-11 20:24 G 23456590.18 23456590.35 23456590.54 0.0088 0.0026

Neptune 59510-02-07 23:31 G 23456678.32 23456678.48 23456678.67 0.0088 0.0037

Earth 59510-03-29 00:14 G 23456727.40 23456727.51 23456727.62 0.2679 0.0860

Moon 59510-03-29 00:29 G 23456727.42 23456727.52 23456727.63 0.2684 0.0779 *

Neptune 59510-05-07 03:07 G 23456766.47 23456766.63 23456766.79 0.0088 0.0048

Neptune 59510-08-03 06:14 G 23456854.63 23456854.76 23456854.91 0.0088 0.0058

Neptune 59510-10-30 09:22 G 23456942.79 23456942.89 23456943.03 0.0088 0.0070

Jupiter 59510-12-18 21:50 G 23456992.28 23456992.41 23456992.54 0.0535 0.0101

Venus 59510-12-19 18:29 G 23456993.26 23456993.27 23456993.28 0.3683 0.3651

Neptune 59511-01-26 12:43 G 23457030.97 23457031.03 23457031.13 0.0088 0.0080

Uranus 59511-12-05 14:10 G 23457344.07 23457344.09 23457344.13 0.0137 0.0133

Uranus 59512-03-02 17:46 G 23457432.17 23457432.24 23457432.32 0.0137 0.0113

Uranus 59512-05-29 21:07 G 23457520.29 23457520.38 23457520.49 0.0137 0.0092

Uranus 59512-08-26 00:29 G 23457608.42 23457608.52 23457608.64 0.0137 0.0073

Earth 59512-09-28 23:31 G 23457642.38 23457642.48 23457642.59 0.2653 0.1898

Moon 59512-09-29 00:14 G 23457642.41 23457642.51 23457642.62 0.2658 0.1844 *

Uranus 59512-11-22 04:05 G 23457696.55 23457696.67 23457696.80 0.0137 0.0052

Uranus 59513-02-18 07:26 G 23457784.68 23457784.81 23457784.94 0.0138 0.0032

Uranus 59513-05-17 10:48 G 23457872.82 23457872.95 23457873.09 0.0138 0.0012

Uranus 59513-08-13 14:10 G 23457960.96 23457961.09 23457961.23 0.0138 0.0010

Uranus 59513-11-09 17:31 G 23458049.10 23458049.23 23458049.37 0.0138 0.0029

Uranus 59514-02-05 20:53 G 23458137.25 23458137.37 23458137.50 0.0138 0.0049

Uranus 59514-05-05 00:14 G 23458225.40 23458225.51 23458225.63 0.0138 0.0069

Uranus 59514-08-01 03:22 G 23458313.55 23458313.64 23458313.75 0.0138 0.0090

Uranus 59514-10-28 06:43 G 23458401.71 23458401.78 23458401.87 0.0138 0.0109

Uranus 59515-01-24 10:19 G 23458489.88 23458489.93 23458489.97 0.0138 0.0129

Mars 59516-04-02 03:07 G 23458923.53 23458923.63 23458923.74 0.1650 0.0942

Venus 59516-07-04 10:05 G 23459016.83 23459016.92 23459017.02 0.3682 0.1088

Pluto 59516-12-23 02:53 G 23459188.62 23459188.62 23459188.62 0.0066 0.0066

Jupiter 59517-01-30 18:29 G 23459227.16 23459227.27 23459227.39 0.0492 0.0364

Pluto 59517-03-21 03:22 G 23459276.57 23459276.64 23459276.72 0.0066 0.0056

Jupiter 59517-04-30 22:34 G 23459317.35 23459317.44 23459317.54 0.0494 0.0422

Pluto 59517-06-17 04:05 G 23459364.57 23459364.67 23459364.77 0.0066 0.0045

Pluto 59517-09-13 04:19 G 23459452.57 23459452.68 23459452.82 0.0067 0.0035

Pluto 59517-12-10 05:02 G 23459540.59 23459540.71 23459540.85 0.0067 0.0024

Pluto 59518-03-08 05:46 G 23459628.61 23459628.74 23459628.89 0.0067 0.0013

Pluto 59518-06-04 06:29 G 23459716.63 23459716.77 23459716.92 0.0067 0.0003

Pluto 59518-08-31 07:12 G 23459804.66 23459804.80 23459804.94 0.0067 0.0009

Pluto 59518-11-27 07:41 G 23459892.69 23459892.82 23459892.96 0.0067 0.0020

Pluto 59519-02-23 08:24 G 23459980.73 23459980.85 23459980.98 0.0067 0.0031

Pluto 59519-05-22 08:53 G 23460068.77 23460068.87 23460068.99 0.0067 0.0042

Pluto 59519-08-18 09:22 G 23460156.82 23460156.89 23460156.99 0.0067 0.0054

Pluto 59519-11-14 10:05 G 23460244.89 23460244.92 23460244.97 0.0067 0.0065

Saturn 59521-08-27 05:02 G 23460896.55 23460896.71 23460896.88 0.0273 0.0111

Saturn 59521-11-24 00:58 G 23460985.37 23460985.54 23460985.71 0.0273 0.0072

Venus 59522-01-18 01:41 G 23461040.47 23461040.57 23461040.66 0.3682 0.1435

Saturn 59522-02-20 20:53 G 23461074.32 23461074.37 23461074.44 0.0272 0.0255

Jupiter 59522-10-07 01:41 G 23461302.45 23461302.57 23461302.68 0.0536 0.0277

Jupiter 59523-01-04 09:50 G 23461391.84 23461391.91 23461391.98 0.0533 0.0435

Earth 59523-03-31 18:29 G 23461478.16 23461478.27 23461478.39 0.2678 0.0353

Moon 59523-03-31 19:12 G 23461478.19 23461478.30 23461478.41 0.2681 0.0424 *

Earth 59525-10-02 04:05 G 23462393.52 23462393.67 23462393.82 0.2654 0.0216

Moon 59525-10-02 05:31 G 23462393.59 23462393.73 23462393.88 0.2657 0.0452 *

Jupiter 59529-02-16 21:07 G 23463627.23 23463627.38 23463627.54 0.0494 0.0226

Jupiter 59534-07-26 05:17 G 23465612.65 23465612.72 23465612.79 0.0536 0.0451

Jupiter 59534-10-23 13:55 G 23465701.97 23465702.08 23465702.19 0.0534 0.0270

Earth 59536-04-02 12:58 G 23466228.94 23466229.04 23466229.13 0.2676 0.1517

Moon 59536-04-02 13:26 G 23466228.97 23466229.06 23466229.15 0.2673 0.1565 *

Mars 59536-12-19 07:41 G 23466489.72 23466489.82 23466489.93 0.1658 0.0914

Saturn 59536-12-20 19:12 G 23466491.19 23466491.30 23466491.41 0.0286 0.0171

Saturn 59537-03-19 07:55 G 23466579.69 23466579.83 23466579.96 0.0286 0.0014

Saturn 59537-06-15 20:10 G 23466668.23 23466668.34 23466668.46 0.0287 0.0148

Earth 59538-10-05 09:07 G 23467144.82 23467144.88 23467144.95 0.2656 0.2410

Moon 59538-10-05 10:34 G 23467144.89 23467144.94 23467145.00 0.2653 0.2457 *

Mars 59539-09-16 16:05 G 23467491.02 23467491.17 23467491.32 0.1869 0.0428

Jupiter 59540-12-05 19:55 G 23467937.15 23467937.33 23467937.51 0.0493 0.0032

Moon 59543-03-27 10:19 G 23468778.85 23468778.93 23468779.02 0.2686 0.1821

Earth 59543-03-27 10:34 G 23468778.86 23468778.94 23468779.02 0.2680 0.1852 *

Mars 59546-05-11 17:31 G 23469920.11 23469920.23 23469920.36 0.1654 0.0059

Jupiter 59546-08-11 17:46 G 23470012.11 23470012.24 23470012.37 0.0534 0.0098

Mars 59549-02-05 16:05 G 23470921.07 23470921.17 23470921.27 0.1874 0.1389

Earth 59549-04-05 06:58 G 23470979.78 23470979.79 23470979.80 0.2675 0.2664

Saturn 59551-01-14 02:38 G 23471628.48 23471628.61 23471628.75 0.0273 0.0181

Saturn 59551-04-12 22:34 G 23471717.26 23471717.44 23471717.62 0.0273 0.0003

Saturn 59551-07-10 18:29 G 23471806.14 23471806.27 23471806.40 0.0272 0.0184

Uranus 59552-06-28 01:41 G 23472159.55 23472159.57 23472159.61 0.0141 0.0139

Jupiter 59552-09-23 18:58 G 23472247.12 23472247.29 23472247.46 0.0493 0.0155

Uranus 59552-09-24 09:22 G 23472247.77 23472247.89 23472248.01 0.0141 0.0109

Uranus 59552-12-21 16:34 G 23472336.05 23472336.19 23472336.35 0.0141 0.0080

Uranus 59553-03-20 00:14 G 23472424.33 23472424.51 23472424.68 0.0141 0.0050

Uranus 59553-06-16 07:41 G 23472512.64 23472512.82 23472513.01 0.0140 0.0020

Uranus 59553-09-12 15:07 G 23472600.95 23472601.13 23472601.32 0.0140 0.0011

Uranus 59553-12-09 22:34 G 23472689.27 23472689.44 23472689.63 0.0140 0.0041

Uranus 59554-03-08 06:14 G 23472777.60 23472777.76 23472777.93 0.0140 0.0070

Uranus 59554-06-04 13:55 G 23472865.95 23472866.08 23472866.21 0.0140 0.0100

Uranus 59554-08-31 21:36 G 23472954.34 23472954.40 23472954.47 0.0140 0.0130

Mars 59555-10-02 03:07 G 23473350.52 23473350.63 23473350.74 0.1650 0.0811

Earth 59556-03-29 05:02 G 23473529.60 23473529.71 23473529.82 0.2679 0.0635

Moon 59556-03-29 05:31 G 23473529.62 23473529.73 23473529.84 0.2684 0.0640 *

Venus 59558-01-13 20:24 G 23474185.19 23474185.35 23474185.50 0.3689 0.0462

Jupiter 59558-05-30 20:53 G 23474322.24 23474322.37 23474322.50 0.0535 0.0090

Earth 59558-09-30 05:46 G 23474444.62 23474444.74 23474444.87 0.2653 0.1521

Moon 59558-09-30 06:58 G 23474444.66 23474444.79 23474444.91 0.2658 0.1448 *

Jupiter 59564-07-12 17:46 G 23476557.12 23476557.24 23476557.37 0.0492 0.0344

Jupiter 59564-10-10 22:05 G 23476647.34 23476647.42 23476647.49 0.0494 0.0445

Saturn 59566-05-09 21:07 G 23477223.29 23477223.38 23477223.47 0.0286 0.0217

Saturn 59566-08-06 09:50 G 23477311.77 23477311.91 23477312.04 0.0287 0.0057

Saturn 59566-11-02 22:19 G 23477400.30 23477400.43 23477400.55 0.0287 0.0103

Saturn 59567-01-30 10:34 G 23477488.89 23477488.94 23477489.00 0.0288 0.0261

Venus 59567-07-26 16:05 G 23477666.10 23477666.17 23477666.24 0.3682 0.2689

Earth 59569-03-31 23:31 G 23478280.37 23478280.48 23478280.59 0.2677 0.0563

Moon 59569-04-01 00:14 G 23478280.40 23478280.51 23478280.62 0.2679 0.0673 *

Jupiter 59570-03-19 00:14 G 23478632.40 23478632.51 23478632.62 0.0535 0.0272

Jupiter 59570-06-16 08:24 G 23478721.78 23478721.85 23478721.93 0.0533 0.0439

Earth 59571-10-03 10:34 G 23479195.79 23479195.94 23479196.09 0.2654 0.0608

Moon 59571-10-03 12:00 G 23479195.85 23479196.00 23479196.15 0.2657 0.0703 *

Venus 59573-02-08 07:26 G 23479689.71 23479689.81 23479689.92 0.3682 0.0215

Mars 59576-06-19 07:55 G 23480916.73 23480916.83 23480916.92 0.1658 0.1050

Jupiter 59576-07-29 19:26 G 23480957.16 23480957.31 23480957.47 0.0493 0.0232

Venus 59578-08-24 23:02 G 23481713.38 23481713.46 23481713.54 0.3681 0.2370

Mars 59579-03-17 16:48 G 23481918.06 23481918.20 23481918.34 0.1869 0.0660

Saturn 59580-06-02 04:05 G 23482360.56 23482360.67 23482360.78 0.0274 0.0216

Saturn 59580-08-29 23:46 G 23482449.31 23482449.49 23482449.67 0.0273 0.0035

Saturn 59580-11-26 19:26 G 23482538.17 23482538.31 23482538.47 0.0273 0.0148

Jupiter 59582-01-05 03:36 G 23482942.59 23482942.65 23482942.72 0.0537 0.0454

Earth 59582-04-03 17:46 G 23483031.15 23483031.24 23483031.32 0.2676 0.1733

Moon 59582-04-03 18:14 G 23483031.18 23483031.26 23483031.35 0.2672 0.1816 *

Jupiter 59582-04-04 12:14 G 23483031.90 23483032.01 23483032.13 0.0534 0.0270

Mars 59585-11-09 17:31 G 23484347.11 23484347.23 23484347.36 0.1654 0.0198

Neptune 59588-01-13 16:05 G 23485142.14 23485142.17 23485142.21 0.0089 0.0086

Neptune 59588-04-10 17:31 G 23485230.17 23485230.23 23485230.30 0.0089 0.0078

Jupiter 59588-05-17 18:14 G 23485267.08 23485267.26 23485267.44 0.0493 0.0039

Neptune 59588-07-07 18:58 G 23485318.21 23485318.29 23485318.38 0.0089 0.0069

Mars 59588-08-06 16:19 G 23485348.07 23485348.18 23485348.30 0.1874 0.1193

Neptune 59588-10-03 20:24 G 23485406.26 23485406.35 23485406.45 0.0089 0.0061

Neptune 59588-12-30 21:50 G 23485494.31 23485494.41 23485494.52 0.0089 0.0053

Moon 59589-03-27 15:36 G 23485581.06 23485581.15 23485581.24 0.2686 0.1680

Earth 59589-03-27 15:36 G 23485581.06 23485581.15 23485581.24 0.2680 0.1617 *

Neptune 59589-03-28 23:17 G 23485582.36 23485582.47 23485582.59 0.0089 0.0045

Neptune 59589-06-25 00:43 G 23485670.41 23485670.53 23485670.66 0.0089 0.0037

Neptune 59589-09-21 02:10 G 23485758.47 23485758.59 23485758.73 0.0089 0.0029

Neptune 59589-12-18 03:36 G 23485846.52 23485846.65 23485846.79 0.0089 0.0021

Neptune 59590-03-16 05:17 G 23485934.58 23485934.72 23485934.85 0.0089 0.0013

Neptune 59590-06-12 06:43 G 23486022.64 23486022.78 23486022.91 0.0089 0.0005

Neptune 59590-09-08 08:10 G 23486110.70 23486110.84 23486110.97 0.0089 0.0004

Neptune 59590-12-05 09:22 G 23486198.76 23486198.89 23486199.03 0.0089 0.0012

Neptune 59591-03-03 10:48 G 23486286.82 23486286.95 23486287.09 0.0089 0.0019

Neptune 59591-05-30 12:14 G 23486374.89 23486375.01 23486375.14 0.0089 0.0027

Neptune 59591-08-26 13:41 G 23486462.95 23486463.07 23486463.20 0.0089 0.0035

Neptune 59591-11-22 15:07 G 23486551.01 23486551.13 23486551.25 0.0089 0.0043

Neptune 59592-02-18 16:34 G 23486639.08 23486639.19 23486639.30 0.0089 0.0050

Neptune 59592-05-16 17:46 G 23486727.15 23486727.24 23486727.35 0.0089 0.0059

Neptune 59592-08-12 19:12 G 23486815.22 23486815.30 23486815.40 0.0089 0.0066

Neptune 59592-11-08 20:24 G 23486903.29 23486903.35 23486903.44 0.0089 0.0075

Neptune 59593-02-04 21:50 G 23486991.37 23486991.41 23486991.47 0.0089 0.0082

Jupiter 59594-01-21 16:19 G 23487342.06 23487342.18 23487342.31 0.0535 0.0104

Mars 59595-04-02 03:22 G 23487777.52 23487777.64 23487777.75 0.1650 0.0667

Saturn 59595-09-26 22:19 G 23487955.39 23487955.43 23487955.47 0.0285 0.0271

Saturn 59595-12-24 11:02 G 23488043.83 23488043.96 23488044.08 0.0286 0.0111

Uranus 59595-12-25 21:36 G 23488045.36 23488045.40 23488045.46 0.0137 0.0126

Saturn 59596-03-21 23:31 G 23488132.35 23488132.48 23488132.61 0.0286 0.0048

Uranus 59596-03-23 00:58 G 23488133.47 23488133.54 23488133.64 0.0137 0.0107

Saturn 59596-06-18 11:46 G 23488220.90 23488220.99 23488221.09 0.0287 0.0206

Uranus 59596-06-19 04:34 G 23488221.59 23488221.69 23488221.80 0.0137 0.0086

Uranus 59596-09-15 07:55 G 23488309.72 23488309.83 23488309.95 0.0137 0.0066

Uranus 59596-12-12 11:31 G 23488397.85 23488397.98 23488398.11 0.0137 0.0045

Uranus 59597-03-10 14:53 G 23488485.99 23488486.12 23488486.25 0.0138 0.0025

Uranus 59597-06-06 18:14 G 23488574.13 23488574.26 23488574.40 0.0138 0.0005

Uranus 59597-09-02 21:36 G 23488662.27 23488662.40 23488662.53 0.0138 0.0015

Uranus 59597-11-30 00:58 G 23488750.41 23488750.54 23488750.67 0.0138 0.0035

Uranus 59598-02-26 04:19 G 23488838.56 23488838.68 23488838.80 0.0138 0.0055

Uranus 59598-05-25 07:41 G 23488926.71 23488926.82 23488926.93 0.0138 0.0075

Uranus 59598-08-21 10:48 G 23489014.86 23489014.95 23489015.05 0.0138 0.0095

Uranus 59598-11-17 14:10 G 23489103.02 23489103.09 23489103.17 0.0138 0.0115

Uranus 59599-02-13 17:17 G 23489191.21 23489191.22 23489191.26 0.0138 0.0136

Jupiter 59600-03-05 17:02 G 23489577.04 23489577.21 23489577.38 0.0493 0.0152

Earth 59602-03-30 10:05 G 23490331.81 23490331.92 23490332.03 0.2679 0.0406

Moon 59602-03-30 10:34 G 23490331.83 23490331.94 23490332.05 0.2684 0.0282 *

Pluto 59604-07-01 08:10 G 23491155.76 23491155.84 23491155.96 0.0078 0.0064

Mars 59604-08-22 12:58 G 23491208.00 23491208.04 23491208.09 0.1647 0.1531

Pluto 59604-09-27 10:19 G 23491243.80 23491243.93 23491244.10 0.0077 0.0043

Earth 59604-09-30 12:14 G 23491246.87 23491247.01 23491247.14 0.2653 0.1137

Moon 59604-09-30 13:26 G 23491246.92 23491247.06 23491247.19 0.2658 0.0967 *

Pluto 59604-12-24 12:43 G 23491331.86 23491332.03 23491332.21 0.0077 0.0021

Pluto 59605-03-22 14:53 G 23491419.94 23491420.12 23491420.30 0.0077 0.0001

Pluto 59605-06-18 16:48 G 23491508.04 23491508.20 23491508.38 0.0077 0.0022

Pluto 59605-09-14 18:58 G 23491596.15 23491596.29 23491596.45 0.0077 0.0042

Jupiter 59605-11-09 20:10 G 23491652.21 23491652.34 23491652.47 0.0535 0.0071

Pluto 59605-12-11 20:53 G 23491684.28 23491684.37 23491684.48 0.0077 0.0063

Saturn 59610-01-16 20:38 G 23493181.21 23493181.36 23493181.53 0.0274 0.0111

Saturn 59610-04-15 16:34 G 23493270.02 23493270.19 23493270.37 0.0273 0.0072

Saturn 59610-07-13 12:43 G 23493358.97 23493359.03 23493359.09 0.0272 0.0256

Jupiter 59611-12-23 16:19 G 23493887.05 23493887.18 23493887.31 0.0492 0.0336

Jupiter 59612-03-22 20:24 G 23493977.28 23493977.35 23493977.42 0.0494 0.0452

Venus 59614-08-20 21:50 G 23494858.33 23494858.41 23494858.49 0.3689 0.3105

Earth 59615-04-02 04:19 G 23495082.58 23495082.68 23495082.79 0.2677 0.0789

Moon 59615-04-02 05:02 G 23495082.61 23495082.71 23495082.82 0.2676 0.0826 *

Mars 59615-12-19 07:55 G 23495343.74 23495343.83 23495343.91 0.1658 0.1181

Jupiter 59617-08-28 23:17 G 23495962.36 23495962.47 23495962.59 0.0535 0.0258

Earth 59617-10-03 16:48 G 23495998.06 23495998.20 23495998.34 0.2655 0.0995

Moon 59617-10-03 18:14 G 23495998.13 23495998.26 23495998.40 0.2655 0.1171 *

Jupiter 59617-11-26 07:26 G 23496051.75 23496051.81 23496051.88 0.0533 0.0452

Mars 59618-09-15 16:48 G 23496345.07 23496345.20 23496345.33 0.1869 0.0835

Earth 59622-03-26 01:55 G 23497632.56 23497632.58 23497632.60 0.2681 0.2619

Jupiter 59624-01-09 18:58 G 23498287.14 23498287.29 23498287.44 0.0494 0.0256

Venus 59624-03-01 13:26 G 23498338.97 23498339.06 23498339.15 0.3682 0.1734

Mars 59625-05-10 17:46 G 23498774.11 23498774.24 23498774.36 0.1654 0.0331

Saturn 59625-05-12 12:43 G 23498775.92 23498776.03 23498776.14 0.0286 0.0160

Saturn 59625-08-09 01:12 G 23498864.42 23498864.55 23498864.69 0.0287 0.0004

Saturn 59625-11-05 13:41 G 23498952.96 23498953.07 23498953.18 0.0287 0.0158

Mars 59628-02-05 17:02 G 23499775.08 23499775.21 23499775.33 0.1874 0.0972

Earth 59628-04-03 22:34 G 23499833.37 23499833.44 23499833.52 0.2676 0.1948

Moon 59628-04-03 23:02 G 23499833.39 23499833.46 23499833.54 0.2672 0.2018 *

Jupiter 59629-06-17 02:38 G 23500272.54 23500272.61 23500272.68 0.0536 0.0442

Jupiter 59629-09-14 11:17 G 23500361.86 23500361.97 23500362.08 0.0534 0.0278

Venus 59629-09-15 05:02 G 23500362.61 23500362.71 23500362.81 0.3682 0.0814

Mars 59634-10-01 03:22 G 23502204.52 23502204.64 23502204.76 0.1650 0.0530

Moon 59635-03-28 20:38 G 23502383.26 23502383.36 23502383.46 0.2686 0.1320

Earth 59635-03-28 20:24 G 23502383.26 23502383.35 23502383.45 0.2680 0.1390 *

Venus 59635-03-31 20:24 G 23502386.31 23502386.35 23502386.39 0.3681 0.3309

Jupiter 59635-10-28 16:48 G 23502597.03 23502597.20 23502597.38 0.0493 0.0049

Uranus 59636-07-18 08:10 G 23502860.80 23502860.84 23502860.91 0.0141 0.0133

Uranus 59636-10-14 15:36 G 23502949.04 23502949.15 23502949.29 0.0141 0.0104

Uranus 59637-01-10 23:17 G 23503037.31 23503037.47 23503037.63 0.0141 0.0074

Uranus 59637-04-09 06:43 G 23503125.61 23503125.78 23503125.96 0.0141 0.0044

Uranus 59637-07-06 14:10 G 23503213.91 23503214.09 23503214.28 0.0140 0.0015

Uranus 59637-10-02 21:50 G 23503302.22 23503302.41 23503302.59 0.0140 0.0016

Uranus 59637-12-30 05:17 G 23503390.54 23503390.72 23503390.90 0.0140 0.0046

Uranus 59638-03-28 12:43 G 23503478.88 23503479.03 23503479.20 0.0140 0.0076

Uranus 59638-06-24 20:10 G 23503567.23 23503567.34 23503567.48 0.0140 0.0106

Uranus 59638-09-21 03:50 G 23503655.63 23503655.66 23503655.71 0.0140 0.0136

Saturn 59639-06-05 21:50 G 23503913.26 23503913.41 23503913.55 0.0274 0.0149

Saturn 59639-09-02 17:31 G 23504002.05 23504002.23 23504002.41 0.0274 0.0033

Saturn 59639-11-30 13:26 G 23504090.96 23504091.06 23504091.17 0.0273 0.0217

Jupiter 59641-07-03 14:53 G 23504671.99 23504672.12 23504672.25 0.0535 0.0103

Mars 59644-02-21 13:12 G 23505634.98 23505635.05 23505635.11 0.1647 0.1389

Jupiter 59647-08-16 15:50 G 23506906.99 23506907.16 23506907.33 0.0492 0.0141

Earth 59648-03-30 14:53 G 23507134.01 23507134.12 23507134.24 0.2678 0.0199

Moon 59648-03-30 15:36 G 23507134.04 23507134.15 23507134.26 0.2683 0.0186 *

Earth 59650-10-01 18:29 G 23508049.12 23508049.27 23508049.41 0.2653 0.0760

Moon 59650-10-01 19:41 G 23508049.17 23508049.32 23508049.46 0.2658 0.0704 *

Jupiter 59653-04-21 18:58 G 23508982.16 23508982.29 23508982.42 0.0535 0.0066

Saturn 59654-09-29 13:55 G 23509507.99 23509508.08 23509508.17 0.0285 0.0213

Saturn 59654-12-27 02:38 G 23509596.47 23509596.61 23509596.74 0.0286 0.0054

Saturn 59655-03-25 14:53 G 23509685.00 23509685.12 23509685.25 0.0286 0.0104

Mars 59655-06-19 07:55 G 23509770.76 23509770.83 23509770.90 0.1658 0.1316

Saturn 59655-06-22 03:07 G 23509773.58 23509773.63 23509773.69 0.0287 0.0261

Mars 59658-03-16 17:17 G 23510772.10 23510772.22 23510772.35 0.1869 0.1058

Jupiter 59659-06-04 14:38 G 23511216.98 23511217.11 23511217.24 0.0492 0.0329

Jupiter 59659-09-02 18:43 G 23511307.21 23511307.28 23511307.35 0.0494 0.0457

Earth 59661-04-02 09:22 G 23511884.78 23511884.89 23511884.99 0.2677 0.1009

Moon 59661-04-02 10:05 G 23511884.82 23511884.92 23511885.02 0.2676 0.1157 *

Earth 59663-10-04 23:17 G 23512800.34 23512800.47 23512800.60 0.2655 0.1395

Moon 59663-10-05 00:43 G 23512800.41 23512800.53 23512800.65 0.2654 0.1579 *

Mars 59664-11-08 17:46 G 23513201.12 23513201.24 23513201.36 0.1654 0.0463

Jupiter 59665-02-07 22:34 G 23513292.33 23513292.44 23513292.56 0.0536 0.0240

Jupiter 59665-05-08 06:58 G 23513381.73 23513381.79 23513381.85 0.0533 0.0471

Venus 59665-09-10 15:50 G 23513507.03 23513507.16 23513507.28 0.3688 0.2178

Mars 59667-08-06 17:02 G 23514202.08 23514202.21 23514202.35 0.1874 0.0782

Moon 59668-03-26 06:29 G 23514434.72 23514434.77 23514434.82 0.2686 0.2420

Earth 59668-03-26 06:58 G 23514434.74 23514434.79 23514434.83 0.2681 0.2389 *

Saturn 59668-10-22 18:43 G 23514645.18 23514645.28 23514645.38 0.0274 0.0226

Saturn 59669-01-19 14:24 G 23514733.92 23514734.10 23514734.27 0.0274 0.0044

Saturn 59669-04-18 10:19 G 23514822.78 23514822.93 23514823.08 0.0273 0.0139

Jupiter 59671-06-21 17:31 G 23515617.08 23515617.23 23515617.38 0.0494 0.0266

Neptune 59671-12-13 06:58 G 23515791.77 23515791.79 23515791.86 0.0088 0.0085

Neptune 59672-03-10 10:34 G 23515879.85 23515879.94 23515880.04 0.0088 0.0074

Neptune 59672-06-06 13:26 G 23515967.95 23515968.06 23515968.20 0.0088 0.0065

Neptune 59672-09-02 17:02 G 23516056.06 23516056.21 23516056.36 0.0088 0.0054

Neptune 59672-11-29 20:10 G 23516144.18 23516144.34 23516144.51 0.0088 0.0043

Neptune 59673-02-25 23:31 G 23516232.31 23516232.48 23516232.65 0.0088 0.0033

Neptune 59673-05-25 02:38 G 23516320.43 23516320.61 23516320.80 0.0088 0.0022

Neptune 59673-08-21 06:00 G 23516408.56 23516408.75 23516408.94 0.0088 0.0011

Neptune 59673-11-17 09:22 G 23516496.70 23516496.89 23516497.07 0.0088 0.0002

Neptune 59674-02-13 12:29 G 23516584.83 23516585.02 23516585.21 0.0088 0.0010

Mars 59674-04-01 03:22 G 23516631.52 23516631.64 23516631.77 0.1650 0.0398

Earth 59674-04-05 03:22 G 23516635.58 23516635.64 23516635.71 0.2676 0.2168

Moon 59674-04-05 03:50 G 23516635.60 23516635.66 23516635.72 0.2671 0.2184 *

Neptune 59674-05-12 15:50 G 23516672.98 23516673.16 23516673.34 0.0088 0.0020

Neptune 59674-08-08 18:58 G 23516761.12 23516761.29 23516761.47 0.0088 0.0031

Neptune 59674-11-04 22:05 G 23516849.27 23516849.42 23516849.60 0.0088 0.0042

Neptune 59675-02-01 01:41 G 23516937.42 23516937.57 23516937.72 0.0088 0.0053

Venus 59675-03-23 19:12 G 23516988.26 23516988.30 23516988.34 0.3682 0.3342

Neptune 59675-04-30 04:48 G 23517025.58 23517025.70 23517025.84 0.0088 0.0064

Neptune 59675-07-27 08:10 G 23517113.75 23517113.84 23517113.95 0.0088 0.0074

Neptune 59675-10-23 11:17 G 23517201.94 23517201.97 23517202.04 0.0088 0.0086

Jupiter 59676-11-27 01:55 G 23517602.50 23517602.58 23517602.65 0.0536 0.0427

Jupiter 59677-02-24 10:19 G 23517691.83 23517691.93 23517692.04 0.0534 0.0293

Uranus 59680-01-15 05:02 G 23518746.65 23518746.71 23518746.78 0.0137 0.0120

Uranus 59680-04-12 08:24 G 23518834.76 23518834.85 23518834.95 0.0137 0.0100

Uranus 59680-07-09 12:00 G 23518922.89 23518923.00 23518923.11 0.0137 0.0080

Uranus 59680-10-05 15:22 G 23519011.02 23519011.14 23519011.26 0.0137 0.0060

Venus 59680-10-06 10:48 G 23519011.85 23519011.95 23519012.05 0.3682 0.0778

Uranus 59681-01-01 18:43 G 23519099.15 23519099.28 23519099.41 0.0138 0.0039

Earth 59681-03-29 01:26 G 23519185.46 23519185.56 23519185.66 0.2680 0.1155

Moon 59681-03-29 01:41 G 23519185.47 23519185.57 23519185.67 0.2686 0.1174 *

Uranus 59681-03-30 22:05 G 23519187.29 23519187.42 23519187.56 0.0138 0.0020

Uranus 59681-06-27 01:41 G 23519275.43 23519275.57 23519275.70 0.0138 0.0005

Uranus 59681-09-23 04:48 G 23519363.57 23519363.70 23519363.84 0.0138 0.0022

Uranus 59681-12-20 08:10 G 23519451.72 23519451.84 23519451.97 0.0138 0.0041

Uranus 59682-03-18 11:31 G 23519539.87 23519539.98 23519540.10 0.0138 0.0061

Uranus 59682-06-14 14:53 G 23519628.02 23519628.12 23519628.23 0.0138 0.0081

Uranus 59682-09-10 18:14 G 23519716.17 23519716.26 23519716.35 0.0138 0.0101

Uranus 59682-12-07 21:22 G 23519804.34 23519804.39 23519804.46 0.0138 0.0121

Jupiter 59683-04-09 16:19 G 23519927.00 23519927.18 23519927.36 0.0493 0.0072

Mars 59683-08-22 13:12 G 23520061.97 23520062.05 23520062.13 0.1647 0.1253

Earth 59683-09-29 20:24 G 23520100.29 23520100.35 23520100.40 0.2652 0.2447

Moon 59683-09-29 21:07 G 23520100.33 23520100.38 23520100.43 0.2658 0.2480 *

Saturn 59684-02-16 15:07 G 23520240.09 23520240.13 23520240.18 0.0285 0.0267

Saturn 59684-05-15 03:50 G 23520328.54 23520328.66 23520328.79 0.0286 0.0107

Saturn 59684-08-11 16:19 G 23520417.05 23520417.18 23520417.32 0.0287 0.0053

Saturn 59684-11-08 04:48 G 23520505.61 23520505.70 23520505.79 0.0287 0.0210

Venus 59686-04-22 02:24 G 23521035.51 23521035.60 23521035.69 0.3681 0.1752

Jupiter 59688-12-13 13:55 G 23522001.96 23522002.08 23522002.21 0.0534 0.0117

Earth 59694-03-31 19:55 G 23523936.22 23523936.33 23523936.44 0.2678 0.0066

Moon 59694-03-31 20:24 G 23523936.24 23523936.35 23523936.47 0.2681 0.0214 *

Mars 59694-12-18 07:55 G 23524197.78 23524197.83 23524197.89 0.1658 0.1450

Jupiter 59695-01-26 14:38 G 23524236.94 23524237.11 23524237.28 0.0492 0.0129

Earth 59696-10-02 00:43 G 23524851.38 23524851.53 23524851.68 0.2653 0.0375

Moon 59696-10-02 01:55 G 23524851.43 23524851.58 23524851.73 0.2657 0.0163 *

Mars 59697-09-14 17:46 G 23525199.13 23525199.24 23525199.35 0.1869 0.1277

Saturn 59698-03-11 19:12 G 23525377.27 23525377.30 23525377.35 0.0275 0.0268

Saturn 59698-06-08 14:53 G 23525465.96 23525466.12 23525466.29 0.0274 0.0087

Saturn 59698-09-05 10:48 G 23525554.79 23525554.95 23525555.12 0.0274 0.0097

Jupiter 59700-10-02 17:31 G 23526312.10 23526312.23 23526312.36 0.0536 0.0066

Mars 59704-05-10 17:46 G 23527628.13 23527628.24 23527628.36 0.1654 0.0603

Jupiter 59706-11-15 13:41 G 23528546.93 23528547.07 23528547.20 0.0492 0.0315

Mars 59707-02-05 17:31 G 23528629.09 23528629.23 23528629.38 0.1874 0.0570

Jupiter 59707-02-13 17:31 G 23528637.18 23528637.23 23528637.28 0.0494 0.0470

Earth 59707-04-04 14:10 G 23528686.99 23528687.09 23528687.19 0.2677 0.1227

Moon 59707-04-04 14:53 G 23528687.02 23528687.12 23528687.22 0.2676 0.1247 *

Earth 59709-10-06 05:31 G 23529602.62 23529602.73 23529602.84 0.2655 0.1788

Moon 59709-10-06 07:12 G 23529602.69 23529602.80 23529602.90 0.2653 0.1899 *

Jupiter 59712-07-21 21:22 G 23530622.27 23530622.39 23530622.51 0.0536 0.0236

Jupiter 59712-10-19 05:31 G 23530711.68 23530711.73 23530711.79 0.0534 0.0478

Mars 59713-10-01 03:36 G 23531058.53 23531058.65 23531058.77 0.1650 0.0255

Saturn 59713-10-03 05:31 G 23531060.62 23531060.73 23531060.85 0.0285 0.0156

Saturn 59713-12-30 18:00 G 23531149.12 23531149.25 23531149.39 0.0286 0.0006

Moon 59714-03-28 11:31 G 23531236.92 23531236.98 23531237.05 0.2687 0.2178

Earth 59714-03-28 11:46 G 23531236.93 23531236.99 23531237.06 0.2680 0.2153 *

Saturn 59714-03-29 06:29 G 23531237.66 23531237.77 23531237.88 0.0286 0.0159

Jupiter 59718-12-02 15:50 G 23532947.02 23532947.16 23532947.31 0.0493 0.0273

Earth 59720-04-06 08:24 G 23533437.80 23533437.85 23533437.90 0.2676 0.2384

Moon 59720-04-06 08:38 G 23533437.82 23533437.86 23533437.90 0.2670 0.2459 *

Uranus 59720-08-08 15:07 G 23533562.06 23533562.13 23533562.22 0.0141 0.0126

Uranus 59720-11-04 22:34 G 23533650.32 23533650.44 23533650.58 0.0141 0.0097

Uranus 59721-02-01 06:14 G 23533738.59 23533738.76 23533738.92 0.0141 0.0067

Uranus 59721-04-30 13:26 G 23533826.89 23533827.06 23533827.25 0.0141 0.0038

Uranus 59721-07-27 21:07 G 23533915.19 23533915.38 23533915.57 0.0140 0.0008

Uranus 59721-10-24 04:34 G 23534003.51 23534003.69 23534003.88 0.0140 0.0022

Uranus 59722-01-20 12:00 G 23534091.83 23534092.00 23534092.18 0.0140 0.0053

Venus 59722-04-18 17:17 G 23534180.07 23534180.22 23534180.38 0.3689 0.0492

Uranus 59722-04-18 19:41 G 23534180.17 23534180.32 23534180.47 0.0140 0.0082 *

Uranus 59722-07-16 03:07 G 23534268.53 23534268.63 23534268.75 0.0140 0.0113

Mars 59723-02-21 13:12 G 23534488.96 23534489.05 23534489.15 0.1647 0.1114

Jupiter 59724-05-10 00:58 G 23534932.46 23534932.54 23534932.63 0.0537 0.0410

Jupiter 59724-08-07 09:36 G 23535021.80 23535021.90 23535022.01 0.0534 0.0311

Earth 59727-03-31 06:29 G 23535987.66 23535987.77 23535987.87 0.2679 0.0933

Moon 59727-03-31 06:43 G 23535987.67 23535987.78 23535987.88 0.2686 0.0868 *

Saturn 59727-10-27 11:46 G 23536197.85 23536197.99 23536198.13 0.0274 0.0164

Saturn 59728-01-24 07:41 G 23536286.64 23536286.82 23536287.00 0.0274 0.0019

Saturn 59728-04-22 03:36 G 23536375.53 23536375.65 23536375.77 0.0273 0.0203

Earth 59729-10-01 02:38 G 23536902.52 23536902.61 23536902.70 0.2652 0.2084

Moon 59729-10-01 03:22 G 23536902.54 23536902.64 23536902.74 0.2658 0.1915 *

Jupiter 59730-09-20 14:53 G 23537256.95 23537257.12 23537257.30 0.0493 0.0083

Venus 59731-10-29 16:34 G 23537661.12 23537661.19 23537661.27 0.3682 0.2381

Mars 59734-06-19 07:55 G 23538624.80 23538624.83 23538624.87 0.1658 0.1581

Jupiter 59736-05-26 13:12 G 23539331.92 23539332.05 23539332.17 0.0534 0.0132

Mars 59737-03-16 18:00 G 23539626.16 23539626.25 23539626.34 0.1869 0.1463

Venus 59737-05-14 08:10 G 23539684.74 23539684.84 23539684.95 0.3682 0.0217

Earth 59740-04-02 00:43 G 23540738.42 23540738.53 23540738.65 0.2678 0.0283

Moon 59740-04-02 01:26 G 23540738.45 23540738.56 23540738.68 0.2680 0.0326 *

Jupiter 59742-07-09 13:55 G 23541566.90 23541567.08 23541567.25 0.0493 0.0107

Earth 59742-10-04 06:58 G 23541653.64 23541653.79 23541653.94 0.2654 0.0049

Moon 59742-10-04 08:24 G 23541653.70 23541653.85 23541654.00 0.2656 0.0071 *

Venus 59742-11-27 23:46 G 23541708.42 23541708.49 23541708.56 0.3681 0.2694

Saturn 59743-02-20 06:29 G 23541792.69 23541792.77 23541792.87 0.0285 0.0212

Saturn 59743-05-19 19:12 G 23541881.17 23541881.30 23541881.44 0.0286 0.0052

Saturn 59743-08-16 07:41 G 23541969.70 23541969.82 23541969.95 0.0286 0.0106

Mars 59743-11-09 17:46 G 23542055.13 23542055.24 23542055.36 0.1654 0.0734

Saturn 59743-11-12 19:55 G 23542058.28 23542058.33 23542058.39 0.0287 0.0263

Mars 59746-08-06 18:00 G 23543056.11 23543056.25 23543056.40 0.1874 0.0357

Jupiter 59748-03-14 16:34 G 23543642.06 23543642.19 23543642.32 0.0535 0.0048

Neptune 59752-10-10 15:22 G 23545313.10 23545313.14 23545313.21 0.0089 0.0082

Neptune 59753-01-06 17:02 G 23545401.14 23545401.21 23545401.29 0.0089 0.0074

Mars 59753-04-01 03:36 G 23545485.53 23545485.65 23545485.78 0.1651 0.0123

Neptune 59753-04-04 18:29 G 23545489.19 23545489.27 23545489.37 0.0089 0.0066

Earth 59753-04-04 18:58 G 23545489.20 23545489.29 23545489.39 0.2677 0.1450 *

Moon 59753-04-04 19:41 G 23545489.23 23545489.32 23545489.41 0.2675 0.1591 *

Neptune 59753-07-01 19:55 G 23545577.23 23545577.33 23545577.44 0.0089 0.0058

Neptune 59753-09-27 21:22 G 23545665.29 23545665.39 23545665.51 0.0089 0.0050

Neptune 59753-12-24 23:02 G 23545753.34 23545753.46 23545753.58 0.0089 0.0041

Neptune 59754-03-23 00:29 G 23545841.39 23545841.52 23545841.65 0.0089 0.0033

Jupiter 59754-04-27 12:29 G 23545876.88 23545877.02 23545877.16 0.0491 0.0301

Neptune 59754-06-19 01:55 G 23545929.45 23545929.58 23545929.71 0.0089 0.0025

Jupiter 59754-07-26 16:19 G 23545967.15 23545967.18 23545967.21 0.0494 0.0484

Neptune 59754-09-15 03:22 G 23546017.51 23546017.64 23546017.78 0.0089 0.0017

Neptune 59754-12-12 04:48 G 23546105.57 23546105.70 23546105.84 0.0089 0.0009

Neptune 59755-03-10 06:14 G 23546193.63 23546193.76 23546193.90 0.0089 0.0001

Neptune 59755-06-06 07:41 G 23546281.69 23546281.82 23546281.96 0.0089 0.0007

Neptune 59755-09-02 09:07 G 23546369.75 23546369.88 23546370.02 0.0089 0.0015

Earth 59755-10-07 12:00 G 23546404.92 23546405.00 23546405.08 0.2655 0.2186

Moon 59755-10-07 13:41 G 23546405.01 23546405.07 23546405.13 0.2653 0.2417 *

Neptune 59755-11-29 10:34 G 23546457.81 23546457.94 23546458.07 0.0089 0.0023

Neptune 59756-02-25 12:00 G 23546545.87 23546546.00 23546546.13 0.0089 0.0030

Neptune 59756-05-23 13:12 G 23546633.94 23546634.05 23546634.18 0.0089 0.0039

Neptune 59756-08-19 14:38 G 23546722.00 23546722.11 23546722.23 0.0089 0.0046

Neptune 59756-11-15 16:05 G 23546810.07 23546810.17 23546810.28 0.0089 0.0054

Neptune 59757-02-11 17:17 G 23546898.14 23546898.22 23546898.33 0.0089 0.0062

Saturn 59757-03-15 12:14 G 23546929.90 23546930.01 23546930.13 0.0275 0.0208

Neptune 59757-05-10 18:58 G 23546986.21 23546986.29 23546986.37 0.0089 0.0070

Saturn 59757-06-12 07:55 G 23547018.66 23547018.83 23547019.01 0.0274 0.0026

Neptune 59757-08-06 20:10 G 23547074.28 23547074.34 23547074.41 0.0089 0.0078

Saturn 59757-09-09 04:05 G 23547107.52 23547107.67 23547107.81 0.0274 0.0159

Neptune 59757-11-02 21:36 G 23547162.37 23547162.40 23547162.44 0.0089 0.0085

Jupiter 59760-01-01 19:41 G 23547952.21 23547952.32 23547952.44 0.0536 0.0235

Moon 59760-03-28 16:34 G 23548039.12 23548039.19 23548039.27 0.2687 0.1969

Earth 59760-03-28 16:48 G 23548039.12 23548039.20 23548039.28 0.2680 0.1920 *

Jupiter 59760-03-31 04:05 G 23548041.62 23548041.67 23548041.73 0.0534 0.0479

Mars 59762-08-22 13:26 G 23548915.96 23548916.06 23548916.16 0.1647 0.0975

Uranus 59763-11-09 08:53 G 23549359.85 23549359.87 23549359.90 0.0137 0.0135

Pluto 59764-02-02 13:26 G 23549445.06 23549445.06 23549445.08 0.0066 0.0066

Uranus 59764-02-05 12:14 G 23549447.95 23549448.01 23549448.09 0.0137 0.0115

Pluto 59764-04-30 13:55 G 23549533.02 23549533.08 23549533.17 0.0066 0.0056

Uranus 59764-05-03 15:36 G 23549536.06 23549536.15 23549536.26 0.0137 0.0095

Pluto 59764-07-27 14:38 G 23549621.02 23549621.11 23549621.23 0.0066 0.0045

Uranus 59764-07-30 19:12 G 23549624.19 23549624.30 23549624.42 0.0137 0.0074

Pluto 59764-10-23 15:36 G 23549709.02 23549709.15 23549709.27 0.0066 0.0034

Uranus 59764-10-26 22:34 G 23549712.32 23549712.44 23549712.57 0.0138 0.0054

Pluto 59765-01-19 15:50 G 23549797.04 23549797.16 23549797.31 0.0067 0.0024

Uranus 59765-01-23 02:10 G 23549800.46 23549800.59 23549800.72 0.0138 0.0034

Pluto 59765-04-17 16:34 G 23549885.06 23549885.19 23549885.34 0.0067 0.0013

Uranus 59765-04-21 05:31 G 23549888.59 23549888.73 23549888.86 0.0138 0.0013

Pluto 59765-07-14 17:17 G 23549973.08 23549973.22 23549973.37 0.0067 0.0002

Uranus 59765-07-18 08:53 G 23549976.74 23549976.87 23549977.00 0.0138 0.0007

Pluto 59765-10-10 18:00 G 23550061.11 23550061.25 23550061.39 0.0067 0.0009

Uranus 59765-10-14 12:14 G 23550064.88 23550065.01 23550065.14 0.0138 0.0027

Pluto 59766-01-06 18:29 G 23550149.14 23550149.27 23550149.41 0.0067 0.0021

Uranus 59766-01-10 15:36 G 23550153.02 23550153.15 23550153.28 0.0138 0.0047

Jupiter 59766-02-13 11:46 G 23550186.96 23550186.99 23550187.01 0.0491 0.0484

Pluto 59766-04-04 19:12 G 23550237.18 23550237.30 23550237.43 0.0067 0.0031

Earth 59766-04-07 13:12 G 23550240.03 23550240.05 23550240.07 0.2676 0.2599

Moon 59766-04-07 13:26 G 23550240.03 23550240.06 23550240.09 0.2669 0.2553 *

Uranus 59766-04-08 18:58 G 23550241.17 23550241.29 23550241.41 0.0138 0.0067

Jupiter 59766-05-14 14:53 G 23550276.98 23550277.12 23550277.27 0.0493 0.0288

Pluto 59766-07-01 19:55 G 23550325.22 23550325.33 23550325.44 0.0067 0.0042

Uranus 59766-07-05 22:05 G 23550329.33 23550329.42 23550329.53 0.0138 0.0087

Pluto 59766-09-27 20:24 G 23550413.27 23550413.35 23550413.44 0.0067 0.0054

Uranus 59766-10-02 01:26 G 23550417.49 23550417.56 23550417.65 0.0138 0.0107

Pluto 59766-12-24 21:07 G 23550501.35 23550501.38 23550501.42 0.0067 0.0065

Uranus 59766-12-29 05:02 G 23550505.66 23550505.71 23550505.76 0.0138 0.0127

Jupiter 59771-10-20 23:31 G 23552262.40 23552262.48 23552262.57 0.0537 0.0409

Jupiter 59772-01-18 08:10 G 23552351.74 23552351.84 23552351.95 0.0534 0.0315

Saturn 59772-07-09 08:38 G 23552524.80 23552524.86 23552524.92 0.0284 0.0256

Saturn 59772-10-05 21:07 G 23552613.26 23552613.38 23552613.51 0.0285 0.0099

Saturn 59773-01-02 09:36 G 23552701.77 23552701.90 23552702.04 0.0285 0.0059

Earth 59773-03-31 11:17 G 23552789.86 23552789.97 23552790.08 0.2679 0.0698

Moon 59773-03-31 11:46 G 23552789.88 23552789.99 23552790.10 0.2685 0.0664 *

Saturn 59773-03-31 21:50 G 23552790.33 23552790.41 23552790.50 0.0286 0.0215

Earth 59775-10-02 08:53 G 23553704.75 23553704.87 23553704.98 0.2652 0.1705

Moon 59775-10-02 09:36 G 23553704.79 23553704.90 23553705.02 0.2658 0.1706 *

Mars 59776-09-14 18:29 G 23554053.21 23554053.27 23554053.34 0.1869 0.1680

Jupiter 59778-03-02 13:26 G 23554586.88 23554587.06 23554587.23 0.0493 0.0092

Venus 59778-11-23 18:58 G 23554853.22 23554853.29 23554853.37 0.3689 0.3153

Mars 59783-05-10 18:00 G 23556482.14 23556482.25 23556482.36 0.1654 0.0869

Jupiter 59783-11-06 12:14 G 23556661.89 23556662.01 23556662.14 0.0535 0.0147

Mars 59786-02-04 18:14 G 23557483.12 23557483.26 23557483.41 0.1874 0.0168

Earth 59786-04-03 05:46 G 23557540.63 23557540.74 23557540.85 0.2678 0.0502

Moon 59786-04-03 06:29 G 23557540.66 23557540.77 23557540.88 0.2679 0.0626 *

Saturn 59786-10-30 04:48 G 23557750.54 23557750.70 23557750.87 0.0274 0.0102

Saturn 59787-01-27 00:43 G 23557839.36 23557839.53 23557839.70 0.0274 0.0082

Saturn 59787-04-25 20:53 G 23557928.34 23557928.37 23557928.41 0.0273 0.0267

Venus 59788-06-04 14:10 G 23558333.99 23558334.09 23558334.18 0.3682 0.1416

Earth 59788-10-04 13:12 G 23558455.91 23558456.05 23558456.20 0.2654 0.0401

Moon 59788-10-04 14:53 G 23558455.97 23558456.12 23558456.26 0.2654 0.0655 *

Jupiter 59789-12-19 12:29 G 23558896.85 23558897.02 23558897.19 0.0492 0.0096

Mars 59792-09-30 03:36 G 23559912.53 23559912.65 23559912.78 0.1650 0.0045

Venus 59793-12-19 05:46 G 23560357.64 23560357.74 23560357.83 0.3682 0.1133

Jupiter 59795-08-25 15:50 G 23560972.02 23560972.16 23560972.29 0.0535 0.0038

Earth 59799-04-06 00:00 G 23562291.41 23562291.50 23562291.58 0.2677 0.1669

Moon 59799-04-06 00:29 G 23562291.43 23562291.52 23562291.61 0.2673 0.1674 *

Venus 59799-07-04 21:07 G 23562381.37 23562381.38 23562381.39 0.3681 0.3629

Jupiter 59801-10-08 11:31 G 23563206.84 23563206.98 23563207.13 0.0492 0.0283

Earth 59801-10-08 18:29 G 23563207.24 23563207.27 23563207.30 0.2655 0.2586

Mars 59802-02-21 13:26 G 23563342.95 23563343.06 23563343.17 0.1647 0.0837

Saturn 59802-02-23 22:19 G 23563345.31 23563345.43 23563345.54 0.0285 0.0154

Saturn 59802-05-23 10:48 G 23563433.82 23563433.95 23563434.09 0.0286 0.0006

Saturn 59802-08-19 23:17 G 23563522.36 23563522.47 23563522.58 0.0286 0.0162

Uranus 59804-08-29 21:50 G 23564263.33 23564263.41 23564263.52 0.0141 0.0120

Uranus 59804-11-26 05:31 G 23564351.59 23564351.73 23564351.88 0.0141 0.0090

Uranus 59805-02-22 12:58 G 23564439.87 23564440.04 23564440.21 0.0141 0.0061

Uranus 59805-05-21 20:24 G 23564528.17 23564528.35 23564528.53 0.0141 0.0031

Uranus 59805-08-18 03:50 G 23564616.47 23564616.66 23564616.85 0.0140 0.0002

Uranus 59805-11-14 11:17 G 23564704.79 23564704.97 23564705.16 0.0140 0.0029

Uranus 59806-02-10 18:43 G 23564793.12 23564793.28 23564793.46 0.0140 0.0059

Moon 59806-03-30 21:36 G 23564841.31 23564841.40 23564841.49 0.2688 0.1653

Earth 59806-03-30 21:36 G 23564841.32 23564841.40 23564841.49 0.2680 0.1690 *

Uranus 59806-05-10 02:24 G 23564881.46 23564881.60 23564881.75 0.0140 0.0088

Uranus 59806-08-06 09:50 G 23564969.82 23564969.91 23564970.02 0.0140 0.0118

Jupiter 59807-06-14 18:58 G 23565282.18 23565282.29 23565282.42 0.0536 0.0217

Jupiter 59807-09-12 03:22 G 23565371.60 23565371.64 23565371.69 0.0533 0.0495

Jupiter 59813-07-27 10:19 G 23567516.89 23567516.93 23567516.99 0.0491 0.0471

Jupiter 59813-10-25 13:41 G 23567606.93 23567607.07 23567607.21 0.0493 0.0302

Saturn 59816-03-19 05:02 G 23568482.57 23568482.71 23568482.87 0.0275 0.0148

Saturn 59816-06-16 00:58 G 23568571.37 23568571.54 23568571.72 0.0274 0.0036

Saturn 59816-09-12 21:07 G 23568660.28 23568660.38 23568660.49 0.0274 0.0221

Earth 59819-04-02 16:19 G 23569592.06 23569592.18 23569592.29 0.2679 0.0483

Moon 59819-04-02 16:48 G 23569592.09 23569592.20 23569592.31 0.2683 0.0433 *

Jupiter 59819-04-02 22:05 G 23569592.33 23569592.42 23569592.50 0.0537 0.0409

Jupiter 59819-07-01 06:43 G 23569681.68 23569681.78 23569681.89 0.0535 0.0315

Earth 59821-10-03 14:53 G 23570507.00 23570507.12 23570507.25 0.2653 0.1340

Moon 59821-10-03 16:05 G 23570507.03 23570507.17 23570507.30 0.2657 0.1188 *

Mars 59822-11-09 18:00 G 23570909.15 23570909.25 23570909.35 0.1654 0.1001

Mars 59825-08-06 18:43 G 23571910.13 23571910.28 23571910.43 0.1874 0.0043

Jupiter 59825-08-13 12:29 G 23571916.85 23571917.02 23571917.19 0.0492 0.0109

Venus 59829-12-15 12:58 G 23573501.92 23573502.04 23573502.17 0.3689 0.2083

Jupiter 59831-04-19 10:48 G 23573991.82 23573991.95 23573992.07 0.0535 0.0147

Saturn 59831-07-14 00:29 G 23574077.43 23574077.52 23574077.62 0.0284 0.0195

Saturn 59831-10-10 13:12 G 23574165.91 23574166.05 23574166.18 0.0285 0.0038

Saturn 59832-01-07 01:26 G 23574254.44 23574254.56 23574254.69 0.0285 0.0119

Mars 59832-04-01 03:50 G 23574339.54 23574339.66 23574339.79 0.1650 0.0155

Earth 59832-04-04 10:34 G 23574342.83 23574342.94 23574343.05 0.2678 0.0720

Moon 59832-04-04 11:17 G 23574342.87 23574342.97 23574343.08 0.2679 0.0784 *

Saturn 59832-04-04 13:41 G 23574343.04 23574343.07 23574343.11 0.0286 0.0274 *

Earth 59834-10-06 19:41 G 23575258.17 23575258.32 23575258.46 0.2654 0.0785

Moon 59834-10-06 21:22 G 23575258.24 23575258.39 23575258.53 0.2654 0.0855 *

Mars 59834-12-27 18:58 G 23575340.24 23575340.29 23575340.34 0.1879 0.1754

Neptune 59836-09-10 05:31 G 23575962.68 23575962.73 23575962.83 0.0088 0.0080

Neptune 59836-12-07 09:07 G 23576050.77 23576050.88 23576051.00 0.0088 0.0069

Neptune 59837-03-05 12:00 G 23576138.88 23576139.00 23576139.16 0.0088 0.0059

Jupiter 59837-06-01 11:02 G 23576226.78 23576226.96 23576227.13 0.0492 0.0088

Neptune 59837-06-01 15:36 G 23576227.00 23576227.15 23576227.31 0.0088 0.0048 *

Neptune 59837-08-28 18:43 G 23576315.12 23576315.28 23576315.45 0.0088 0.0038

Neptune 59837-11-24 22:05 G 23576403.24 23576403.42 23576403.60 0.0088 0.0027

Neptune 59838-02-21 01:12 G 23576491.37 23576491.55 23576491.74 0.0088 0.0017

Neptune 59838-05-20 04:34 G 23576579.50 23576579.69 23576579.88 0.0088 0.0006

Neptune 59838-08-16 07:41 G 23576667.64 23576667.82 23576668.01 0.0088 0.0005

Neptune 59838-11-12 11:02 G 23576755.78 23576755.96 23576756.15 0.0088 0.0015

Neptune 59839-02-08 14:24 G 23576843.92 23576844.10 23576844.28 0.0088 0.0026

Neptune 59839-05-07 17:31 G 23576932.06 23576932.23 23576932.41 0.0088 0.0036

Venus 59839-06-27 19:55 G 23576983.27 23576983.33 23576983.39 0.3682 0.3028

Neptune 59839-08-03 20:38 G 23577020.21 23577020.36 23577020.53 0.0088 0.0047

Neptune 59839-10-30 23:46 G 23577108.37 23577108.49 23577108.65 0.0088 0.0059

Neptune 59840-01-27 03:36 G 23577196.53 23577196.65 23577196.77 0.0088 0.0069

Neptune 59840-04-24 06:43 G 23577284.71 23577284.78 23577284.87 0.0088 0.0080

Mars 59841-08-22 13:26 G 23577769.95 23577770.06 23577770.18 0.1647 0.0703

Jupiter 59843-02-05 14:38 G 23578301.98 23578302.11 23578302.24 0.0536 0.0023

Venus 59845-01-10 11:31 G 23579006.88 23579006.98 23579007.08 0.3682 0.0468

Earth 59845-04-07 04:48 G 23579093.62 23579093.70 23579093.78 0.2676 0.1886

Moon 59845-04-07 05:17 G 23579093.65 23579093.72 23579093.79 0.2671 0.1981 *

Saturn 59845-08-06 02:24 G 23579214.50 23579214.60 23579214.71 0.0275 0.0220

Saturn 59845-11-02 22:19 G 23579303.25 23579303.43 23579303.60 0.0274 0.0038

Saturn 59846-01-30 18:14 G 23579392.11 23579392.26 23579392.41 0.0274 0.0146

Uranus 59847-11-30 16:05 G 23580061.13 23580061.17 23580061.22 0.0137 0.0129

Uranus 59848-02-26 19:26 G 23580149.24 23580149.31 23580149.40 0.0137 0.0109

Uranus 59848-05-24 23:02 G 23580237.36 23580237.46 23580237.57 0.0137 0.0089

Uranus 59848-08-21 02:24 G 23580325.49 23580325.60 23580325.72 0.0138 0.0069

Uranus 59848-11-17 05:46 G 23580413.62 23580413.74 23580413.87 0.0138 0.0049

Uranus 59849-02-13 09:22 G 23580501.76 23580501.89 23580502.02 0.0138 0.0028

Jupiter 59849-03-20 10:05 G 23580536.78 23580536.92 23580537.07 0.0492 0.0273

Uranus 59849-05-12 12:43 G 23580589.90 23580590.03 23580590.16 0.0138 0.0008

Uranus 59849-08-08 16:05 G 23580678.04 23580678.17 23580678.30 0.0138 0.0012

Uranus 59849-11-04 19:26 G 23580766.18 23580766.31 23580766.44 0.0138 0.0032

Uranus 59850-01-31 22:48 G 23580854.33 23580854.45 23580854.57 0.0138 0.0052

Uranus 59850-04-30 02:10 G 23580942.48 23580942.59 23580942.70 0.0138 0.0072

Venus 59850-07-27 03:07 G 23581030.54 23581030.63 23581030.71 0.3682 0.2068

Uranus 59850-07-27 05:31 G 23581030.63 23581030.73 23581030.83 0.0138 0.0092 *

Uranus 59850-10-23 08:38 G 23581118.79 23581118.86 23581118.94 0.0138 0.0112

Mars 59851-01-12 23:02 G 23581200.43 23581200.46 23581200.50 0.1644 0.1562

Uranus 59851-01-19 12:00 G 23581206.97 23581207.00 23581207.04 0.0138 0.0132

Pluto 59851-08-12 17:02 G 23581412.15 23581412.21 23581412.31 0.0078 0.0069

Pluto 59851-11-08 19:12 G 23581500.17 23581500.30 23581500.45 0.0078 0.0048

Pluto 59852-02-04 21:22 G 23581588.23 23581588.39 23581588.57 0.0077 0.0027

Moon 59852-03-31 02:38 G 23581643.52 23581643.61 23581643.70 0.2687 0.1512

Earth 59852-03-31 02:38 G 23581643.52 23581643.61 23581643.70 0.2680 0.1456 *

Pluto 59852-05-02 23:46 G 23581676.31 23581676.49 23581676.67 0.0077 0.0005

Pluto 59852-07-30 01:41 G 23581764.40 23581764.57 23581764.75 0.0077 0.0016

Pluto 59852-10-26 03:36 G 23581852.51 23581852.65 23581852.82 0.0077 0.0037

Pluto 59853-01-22 05:46 G 23581940.63 23581940.74 23581940.87 0.0077 0.0058

Jupiter 59854-11-24 18:00 G 23582612.13 23582612.25 23582612.37 0.0536 0.0205

Jupiter 59855-02-22 02:24 G 23582701.56 23582701.60 23582701.64 0.0533 0.0506

Saturn 59860-11-30 01:26 G 23584809.50 23584809.56 23584809.63 0.0285 0.0252

Jupiter 59861-01-06 09:22 G 23584846.83 23584846.89 23584846.95 0.0491 0.0457

Saturn 59861-02-26 14:10 G 23584897.96 23584898.09 23584898.22 0.0285 0.0093

Jupiter 59861-04-06 12:43 G 23584936.89 23584937.03 23584937.16 0.0493 0.0318

Saturn 59861-05-26 02:38 G 23584986.48 23584986.61 23584986.74 0.0286 0.0064

Saturn 59861-08-22 14:53 G 23585075.04 23585075.12 23585075.21 0.0286 0.0220

Mars 59862-05-10 18:00 G 23585336.16 23585336.25 23585336.34 0.1654 0.1135

Mars 59865-02-04 19:12 G 23586337.16 23586337.30 23586337.45 0.1874 0.0270

Earth 59865-04-02 21:07 G 23586394.27 23586394.38 23586394.49 0.2679 0.0246

Moon 59865-04-02 21:50 G 23586394.29 23586394.41 23586394.52 0.2683 0.0149 *

Jupiter 59866-09-12 21:22 G 23586922.30 23586922.39 23586922.48 0.0537 0.0390

Jupiter 59866-12-11 06:00 G 23587011.65 23587011.75 23587011.85 0.0534 0.0332

Earth 59867-10-04 21:22 G 23587309.25 23587309.39 23587309.53 0.2653 0.0955

Moon 59867-10-04 22:34 G 23587309.30 23587309.44 23587309.58 0.2656 0.0837 *

Mars 59871-10-01 03:50 G 23588766.54 23588766.66 23588766.79 0.1650 0.0291

Jupiter 59873-01-23 11:17 G 23589246.79 23589246.97 23589247.14 0.0492 0.0122

Mars 59874-06-27 19:12 G 23589767.22 23589767.30 23589767.38 0.1879 0.1556

Saturn 59874-12-24 02:38 G 23589946.58 23589946.61 23589946.66 0.0275 0.0266

Saturn 59875-03-22 22:34 G 23590035.27 23590035.44 23590035.61 0.0275 0.0084

Saturn 59875-06-19 18:29 G 23590124.10 23590124.27 23590124.44 0.0274 0.0100

Earth 59878-04-05 15:22 G 23591145.04 23591145.14 23591145.25 0.2678 0.0942

Moon 59878-04-05 16:05 G 23591145.07 23591145.17 23591145.28 0.2677 0.1029 *

Jupiter 59878-09-29 09:07 G 23591321.75 23591321.88 23591322.00 0.0535 0.0146

Earth 59880-10-07 01:55 G 23592060.45 23592060.58 23592060.72 0.2654 0.1170

Moon 59880-10-07 03:36 G 23592060.52 23592060.65 23592060.77 0.2655 0.1424 *

Mars 59881-02-20 13:41 G 23592196.95 23592197.07 23592197.19 0.1647 0.0561

Jupiter 59884-11-11 09:50 G 23593556.74 23593556.91 23593557.09 0.0492 0.0072

Moon 59885-03-29 12:29 G 23593695.00 23593695.02 23593695.05 0.2688 0.2572

Earth 59885-03-29 12:58 G 23593695.00 23593695.04 23593695.08 0.2681 0.2458 *

Venus 59886-07-22 14:24 G 23594174.95 23594175.10 23594175.25 0.3689 0.0495

Uranus 59888-06-22 22:05 G 23594876.42 23594876.42 23594876.43 0.0141 0.0141

Uranus 59888-09-19 05:17 G 23594964.62 23594964.72 23594964.84 0.0141 0.0112

Uranus 59888-12-16 12:29 G 23595052.89 23595053.02 23595053.19 0.0141 0.0083

Uranus 59889-03-14 20:10 G 23595141.17 23595141.34 23595141.52 0.0141 0.0053

Uranus 59889-06-11 03:36 G 23595229.47 23595229.65 23595229.84 0.0140 0.0023

Uranus 59889-09-07 11:02 G 23595317.77 23595317.96 23595318.15 0.0140 0.0007

Uranus 59889-12-04 18:29 G 23595406.09 23595406.27 23595406.45 0.0140 0.0036

Uranus 59890-03-03 01:55 G 23595494.42 23595494.58 23595494.75 0.0140 0.0066

Uranus 59890-05-30 09:22 G 23595582.76 23595582.89 23595583.04 0.0140 0.0096

Mars 59890-07-13 23:17 G 23595627.41 23595627.47 23595627.53 0.1643 0.1420

Saturn 59890-07-16 16:48 G 23595630.08 23595630.20 23595630.33 0.0284 0.0130

Jupiter 59890-07-18 12:58 G 23595631.91 23595632.04 23595632.17 0.0536 0.0028

Uranus 59890-08-26 16:48 G 23595671.13 23595671.20 23595671.30 0.0140 0.0126

Saturn 59890-10-13 05:17 G 23595718.59 23595718.72 23595718.86 0.0285 0.0028

Saturn 59891-01-09 17:46 G 23595807.14 23595807.24 23595807.34 0.0285 0.0183

Earth 59891-04-08 09:36 G 23595895.84 23595895.90 23595895.97 0.2676 0.2106

Moon 59891-04-08 10:05 G 23595895.86 23595895.92 23595895.99 0.2671 0.2121 *

Venus 59896-02-01 17:17 G 23597656.14 23597656.22 23597656.30 0.3682 0.2075

Jupiter 59896-08-30 08:24 G 23597866.71 23597866.85 23597867.00 0.0491 0.0266

Earth 59898-04-01 07:26 G 23598445.71 23598445.81 23598445.92 0.2680 0.1233

Moon 59898-04-01 07:41 G 23598445.72 23598445.82 23598445.92 0.2686 0.1152 *

Moon 59900-10-02 23:46 G 23599360.45 23599360.49 23599360.53 0.2658 0.2537

Earth 59900-10-02 23:17 G 23599360.46 23599360.47 23599360.49 0.2651 0.2628 *

Venus 59901-08-18 08:53 G 23599679.77 23599679.87 23599679.97 0.3682 0.0486

Mars 59901-11-09 18:14 G 23599763.18 23599763.26 23599763.33 0.1654 0.1268

Jupiter 59902-05-07 16:48 G 23599942.08 23599942.20 23599942.32 0.0536 0.0198

Jupiter 59902-08-05 01:12 G 23600031.52 23600031.55 23600031.58 0.0534 0.0515

Mars 59904-08-06 19:26 G 23600764.16 23600764.31 23600764.45 0.1874 0.0451

Saturn 59904-08-09 20:24 G 23600767.21 23600767.35 23600767.50 0.0275 0.0152

Saturn 59904-11-06 16:05 G 23600856.00 23600856.17 23600856.35 0.0274 0.0032

Saturn 59905-02-03 12:14 G 23600944.90 23600945.01 23600945.12 0.0274 0.0216

Venus 59907-03-04 00:29 G 23601703.46 23601703.52 23601703.57 0.3681 0.2999

Jupiter 59908-06-19 07:41 G 23602176.75 23602176.82 23602176.89 0.0491 0.0450

Jupiter 59908-09-17 10:48 G 23602266.82 23602266.95 23602267.09 0.0493 0.0325

Mars 59911-04-02 03:50 G 23603193.54 23603193.66 23603193.79 0.1650 0.0424

Earth 59911-04-05 01:55 G 23603196.47 23603196.58 23603196.70 0.2679 0.0096

Moon 59911-04-05 02:38 G 23603196.50 23603196.61 23603196.73 0.2682 0.0066 *

Earth 59913-10-06 03:36 G 23604111.50 23604111.65 23604111.80 0.2653 0.0570

Moon 59913-10-06 05:02 G 23604111.56 23604111.71 23604111.86 0.2656 0.0442 *

Mars 59913-12-27 19:26 G 23604194.21 23604194.31 23604194.41 0.1879 0.1365

Jupiter 59914-02-23 20:10 G 23604252.25 23604252.34 23604252.43 0.0537 0.0381

Jupiter 59914-05-24 04:48 G 23604341.60 23604341.70 23604341.80 0.0534 0.0340

Neptune 59917-04-12 13:26 G 23605396.04 23605396.06 23605396.11 0.0089 0.0087

Neptune 59917-07-09 14:53 G 23605484.07 23605484.12 23605484.20 0.0089 0.0079

Neptune 59917-10-05 16:48 G 23605572.12 23605572.20 23605572.29 0.0089 0.0070

Neptune 59918-01-01 18:14 G 23605660.17 23605660.26 23605660.36 0.0089 0.0062

Neptune 59918-03-30 19:41 G 23605748.22 23605748.32 23605748.43 0.0089 0.0053

Neptune 59918-06-26 21:07 G 23605836.27 23605836.38 23605836.50 0.0089 0.0045

Neptune 59918-09-22 22:34 G 23605924.32 23605924.44 23605924.57 0.0089 0.0038

Neptune 59918-12-20 00:00 G 23606012.38 23606012.50 23606012.64 0.0089 0.0030

Neptune 59919-03-18 01:41 G 23606100.44 23606100.57 23606100.70 0.0089 0.0021

Neptune 59919-06-14 03:07 G 23606188.49 23606188.63 23606188.76 0.0089 0.0013

Neptune 59919-09-10 04:34 G 23606276.55 23606276.69 23606276.82 0.0089 0.0005

Saturn 59919-12-04 18:00 G 23606362.15 23606362.25 23606362.35 0.0285 0.0185

Neptune 59919-12-07 06:00 G 23606364.61 23606364.75 23606364.89 0.0089 0.0003

Saturn 59920-03-02 06:29 G 23606450.64 23606450.77 23606450.91 0.0285 0.0028

Neptune 59920-03-04 07:26 G 23606452.67 23606452.81 23606452.94 0.0089 0.0011

Saturn 59920-05-29 18:58 G 23606539.17 23606539.29 23606539.41 0.0286 0.0129

Neptune 59920-05-31 08:38 G 23606540.74 23606540.86 23606541.00 0.0089 0.0019

Jupiter 59920-07-06 09:50 G 23606576.73 23606576.91 23606577.08 0.0493 0.0132

Mars 59920-08-22 13:41 G 23606623.95 23606624.07 23606624.19 0.1647 0.0428

Saturn 59920-08-26 07:12 G 23606627.79 23606627.80 23606627.81 0.0286 0.0284

Neptune 59920-08-27 10:19 G 23606628.80 23606628.93 23606629.06 0.0089 0.0027

Neptune 59920-11-23 11:46 G 23606716.86 23606716.99 23606717.11 0.0089 0.0034

Neptune 59921-02-19 12:58 G 23606804.93 23606805.04 23606805.16 0.0089 0.0042

Neptune 59921-05-18 14:24 G 23606892.99 23606893.10 23606893.22 0.0089 0.0050

Neptune 59921-08-14 15:36 G 23606981.06 23606981.15 23606981.26 0.0089 0.0059

Neptune 59921-11-10 17:02 G 23607069.13 23607069.21 23607069.31 0.0089 0.0066

Neptune 59922-02-06 18:43 G 23607157.21 23607157.28 23607157.35 0.0089 0.0074

Neptune 59922-05-05 19:55 G 23607245.29 23607245.33 23607245.39 0.0089 0.0081

Neptune 59922-08-01 21:36 G 23607333.40 23607333.40 23607333.40 0.0089 0.0089

Earth 59924-04-06 20:24 G 23607947.25 23607947.35 23607947.45 0.2677 0.1163

Moon 59924-04-06 21:07 G 23607947.28 23607947.38 23607947.48 0.2675 0.1268 *

Jupiter 59926-03-12 08:24 G 23608651.72 23608651.85 23608651.97 0.0535 0.0163

Earth 59926-10-09 08:24 G 23608862.73 23608862.85 23608862.97 0.2655 0.1569

Moon 59926-10-09 09:50 G 23608862.80 23608862.91 23608863.03 0.2654 0.1664 *

Mars 59930-01-12 23:17 G 23610054.40 23610054.47 23610054.55 0.1644 0.1280

Moon 59931-03-31 17:31 G 23610497.17 23610497.23 23610497.30 0.2688 0.2211

Earth 59931-03-31 18:00 G 23610497.18 23610497.25 23610497.31 0.2681 0.2226 *

Uranus 59931-12-21 23:02 G 23610762.42 23610762.46 23610762.53 0.0137 0.0125

Uranus 59932-03-19 02:53 G 23610850.53 23610850.62 23610850.71 0.0137 0.0104

Jupiter 59932-04-24 08:38 G 23610886.68 23610886.86 23610887.03 0.0492 0.0061

Uranus 59932-06-15 06:14 G 23610938.65 23610938.76 23610938.87 0.0137 0.0083

Uranus 59932-09-11 09:36 G 23611026.78 23611026.90 23611027.02 0.0138 0.0063

Uranus 59932-12-08 12:58 G 23611114.92 23611115.04 23611115.17 0.0138 0.0043

Uranus 59933-03-06 16:34 G 23611203.05 23611203.19 23611203.32 0.0138 0.0023

Uranus 59933-06-02 19:55 G 23611291.19 23611291.33 23611291.46 0.0138 0.0003

Uranus 59933-08-29 23:17 G 23611379.34 23611379.47 23611379.60 0.0138 0.0017

Uranus 59933-11-26 02:38 G 23611467.48 23611467.61 23611467.74 0.0138 0.0037

Saturn 59933-12-27 20:24 G 23611499.24 23611499.35 23611499.48 0.0275 0.0199

Uranus 59934-02-22 06:00 G 23611555.63 23611555.75 23611555.87 0.0138 0.0058

Saturn 59934-03-26 16:19 G 23611588.01 23611588.18 23611588.36 0.0275 0.0017

Uranus 59934-05-21 09:22 G 23611643.78 23611643.89 23611644.00 0.0138 0.0078

Saturn 59934-06-23 12:14 G 23611676.88 23611677.01 23611677.16 0.0274 0.0169

Uranus 59934-08-17 12:43 G 23611731.94 23611732.03 23611732.12 0.0138 0.0098

Uranus 59934-11-13 15:50 G 23611820.10 23611820.16 23611820.24 0.0138 0.0118

Uranus 59935-02-09 19:12 G 23611908.29 23611908.30 23611908.32 0.0138 0.0137

Earth 59937-04-09 14:38 G 23612698.05 23612698.11 23612698.16 0.2676 0.2320

Moon 59937-04-09 14:53 G 23612698.08 23612698.12 23612698.17 0.2670 0.2380 *

Jupiter 59937-12-29 11:17 G 23612961.84 23612961.97 23612962.10 0.0536 0.0033

Mars 59941-05-10 18:14 G 23614190.20 23614190.26 23614190.32 0.1654 0.1402

Venus 59943-02-27 16:05 G 23614848.09 23614848.17 23614848.25 0.3689 0.3154

Mars 59944-02-05 19:55 G 23615191.19 23615191.33 23615191.47 0.1874 0.0663

Jupiter 59944-02-11 07:26 G 23615196.66 23615196.81 23615196.96 0.0491 0.0250

Earth 59944-04-02 12:29 G 23615247.92 23615248.02 23615248.13 0.2680 0.0996

Moon 59944-04-02 12:58 G 23615247.93 23615248.04 23615248.14 0.2686 0.1018 *

Earth 59946-10-04 05:31 G 23616162.66 23616162.73 23616162.81 0.2652 0.2253

Moon 59946-10-04 06:14 G 23616162.69 23616162.76 23616162.84 0.2657 0.2265 *

Saturn 59949-04-22 21:07 G 23617094.29 23617094.38 23617094.47 0.0284 0.0217

Saturn 59949-07-20 09:36 G 23617182.77 23617182.90 23617183.04 0.0284 0.0060

Saturn 59949-10-16 22:05 G 23617271.29 23617271.42 23617271.55 0.0285 0.0096

Jupiter 59949-10-17 14:53 G 23617272.00 23617272.12 23617272.24 0.0537 0.0207

Saturn 59950-01-13 10:19 G 23617359.87 23617359.93 23617359.99 0.0285 0.0251

Jupiter 59950-01-14 23:17 G 23617361.43 23617361.47 23617361.51 0.0534 0.0508

Mars 59950-10-01 04:05 G 23617620.55 23617620.67 23617620.79 0.1650 0.0557

Venus 59952-09-08 14:38 G 23618329.02 23618329.11 23618329.21 0.3682 0.1120

Mars 59953-06-27 19:55 G 23618621.21 23618621.33 23618621.44 0.1879 0.1157

Jupiter 59955-11-30 06:00 G 23619506.68 23619506.75 23619506.82 0.0491 0.0445

Jupiter 59956-02-28 08:53 G 23619596.75 23619596.87 23619597.01 0.0493 0.0328

Earth 59957-04-05 06:58 G 23619998.68 23619998.79 23619998.90 0.2679 0.0208

Moon 59957-04-05 07:41 G 23619998.70 23619998.82 23619998.93 0.2682 0.0354 *

Venus 59958-03-25 06:14 G 23620352.67 23620352.76 23620352.86 0.3681 0.1439

Earth 59959-10-07 10:05 G 23620913.76 23620913.92 23620914.07 0.2653 0.0204

Moon 59959-10-07 11:31 G 23620913.83 23620913.98 23620914.13 0.2656 0.0043 *

Mars 59960-02-21 13:55 G 23621050.95 23621051.08 23621051.20 0.1647 0.0296

Jupiter 59961-08-05 18:43 G 23621582.18 23621582.28 23621582.37 0.0537 0.0381

Jupiter 59961-11-03 03:22 G 23621671.54 23621671.64 23621671.74 0.0535 0.0344

Saturn 59963-05-16 19:12 G 23622231.25 23622231.30 23622231.36 0.0275 0.0259

Saturn 59963-08-13 14:53 G 23622319.95 23622320.12 23622320.29 0.0275 0.0078

Saturn 59963-11-10 10:48 G 23622408.79 23622408.95 23622409.12 0.0274 0.0106

Jupiter 59967-12-17 07:41 G 23623906.65 23623906.82 23623907.00 0.0493 0.0135

Mars 59969-07-13 23:17 G 23624481.39 23624481.47 23624481.57 0.1644 0.1149

Earth 59970-04-08 01:12 G 23624749.46 23624749.55 23624749.65 0.2677 0.1382

Moon 59970-04-08 01:55 G 23624749.48 23624749.58 23624749.67 0.2674 0.1409 *

Uranus 59972-07-14 04:48 G 23625577.66 23625577.70 23625577.77 0.0141 0.0134

Earth 59972-10-09 14:38 G 23625665.01 23625665.11 23625665.22 0.2655 0.1963

Moon 59972-10-09 16:05 G 23625665.08 23625665.17 23625665.26 0.2652 0.2125 *

Uranus 59972-10-10 12:14 G 23625665.90 23625666.01 23625666.14 0.0141 0.0105

Uranus 59973-01-06 19:26 G 23625754.17 23625754.31 23625754.48 0.0141 0.0076

Uranus 59973-04-05 03:07 G 23625842.46 23625842.63 23625842.81 0.0141 0.0046

Uranus 59973-07-02 10:34 G 23625930.75 23625930.94 23625931.13 0.0140 0.0016

Jupiter 59973-08-22 06:58 G 23625981.67 23625981.79 23625981.91 0.0535 0.0167

Uranus 59973-09-28 18:00 G 23626019.06 23626019.25 23626019.44 0.0140 0.0014

Uranus 59973-12-26 01:26 G 23626107.38 23626107.56 23626107.74 0.0140 0.0043

Uranus 59974-03-24 08:38 G 23626195.71 23626195.86 23626196.03 0.0140 0.0074

Uranus 59974-06-20 16:19 G 23626284.06 23626284.18 23626284.31 0.0140 0.0103

Uranus 59974-09-16 23:46 G 23626372.44 23626372.49 23626372.56 0.0140 0.0133

Moon 59977-03-31 22:34 G 23627299.37 23627299.44 23627299.51 0.2687 0.2064

Earth 59977-03-31 22:48 G 23627299.38 23627299.45 23627299.53 0.2681 0.1990 *

Saturn 59978-09-09 22:05 G 23627826.39 23627826.42 23627826.46 0.0284 0.0272

Saturn 59978-12-07 10:48 G 23627914.83 23627914.95 23627915.08 0.0285 0.0114

Saturn 59979-03-05 23:17 G 23628003.34 23628003.47 23628003.61 0.0285 0.0043

Saturn 59979-06-02 11:31 G 23628091.89 23628091.98 23628092.08 0.0286 0.0199

Jupiter 59979-10-05 06:43 G 23628216.60 23628216.78 23628216.96 0.0492 0.0056

Mars 59980-11-08 18:14 G 23628617.22 23628617.26 23628617.31 0.1654 0.1529

Earth 59983-04-10 19:26 G 23629500.28 23629500.31 23629500.34 0.2676 0.2536

Moon 59983-04-10 19:41 G 23629500.30 23629500.32 23629500.35 0.2670 0.2565 *

Mars 59983-08-06 20:24 G 23629618.22 23629618.35 23629618.48 0.1874 0.0877

Jupiter 59985-06-10 10:19 G 23630291.80 23630291.93 23630292.06 0.0536 0.0015

Mars 59990-04-01 04:05 G 23632047.56 23632047.67 23632047.79 0.1651 0.0693

Earth 59990-04-03 17:31 G 23632050.12 23632050.23 23632050.33 0.2680 0.0776

Moon 59990-04-03 18:00 G 23632050.14 23632050.25 23632050.35 0.2685 0.0666 *

Jupiter 59991-07-24 05:46 G 23632526.59 23632526.74 23632526.89 0.0491 0.0243

Earth 59992-10-04 11:46 G 23632964.89 23632964.99 23632965.10 0.2652 0.1890

Moon 59992-10-04 12:43 G 23632964.92 23632965.03 23632965.15 0.2656 0.1696 *

Mars 59992-12-26 20:24 G 23633048.22 23633048.35 23633048.47 0.1879 0.0949

Saturn 59992-12-30 15:07 G 23633051.98 23633052.13 23633052.29 0.0275 0.0125

Saturn 59993-03-29 11:02 G 23633140.79 23633140.96 23633141.14 0.0275 0.0059

Saturn 59993-06-26 06:58 G 23633229.72 23633229.79 23633229.88 0.0274 0.0245

Venus 59994-03-20 10:05 G 23633496.80 23633496.92 23633497.05 0.3689 0.2067

Jupiter 59997-03-29 12:58 G 23634601.92 23634602.04 23634602.16 0.0537 0.0213

Jupiter 59997-06-26 21:22 G 23634691.35 23634691.39 23634691.43 0.0534 0.0503

Mars 59999-08-22 13:55 G 23635477.95 23635478.08 23635478.20 0.1647 0.0155

61ST MILLENNIUM CE

This is a list of transits of Mercury in the 61st millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Neptune 60001-03-12 01:26 G 23636045.52 23636045.56 23636045.63 0.0088 0.0084

Neptune 60001-06-08 04:34 G 23636133.61 23636133.69 23636133.80 0.0088 0.0074

Neptune 60001-09-04 07:55 G 23636221.71 23636221.83 23636221.96 0.0088 0.0064

Neptune 60001-12-01 11:02 G 23636309.82 23636309.96 23636310.12 0.0088 0.0053

Neptune 60002-02-27 14:24 G 23636397.94 23636398.10 23636398.27 0.0088 0.0043

Neptune 60002-05-26 17:31 G 23636486.06 23636486.23 23636486.41 0.0088 0.0032

Neptune 60002-08-22 20:53 G 23636574.19 23636574.37 23636574.55 0.0088 0.0022

Neptune 60002-11-19 00:00 G 23636662.32 23636662.50 23636662.69 0.0088 0.0011

Neptune 60003-02-15 03:22 G 23636750.45 23636750.64 23636750.83 0.0088 0.0000

Earth 60003-04-06 11:46 G 23636800.88 23636800.99 23636801.10 0.2679 0.0437

Moon 60003-04-06 12:29 G 23636800.91 23636801.02 23636801.13 0.2680 0.0454 *

Jupiter 60003-05-12 04:48 G 23636836.62 23636836.70 23636836.78 0.0491 0.0431

Neptune 60003-05-14 06:29 G 23636838.59 23636838.77 23636838.96 0.0088 0.0010

Jupiter 60003-08-10 07:41 G 23636926.70 23636926.82 23636926.95 0.0493 0.0342

Neptune 60003-08-10 09:36 G 23636926.73 23636926.90 23636927.09 0.0088 0.0021 *

Venus 60003-09-30 20:24 G 23636978.29 23636978.35 23636978.42 0.3682 0.2733

Neptune 60003-11-06 12:58 G 23637014.87 23637015.04 23637015.22 0.0088 0.0032

Neptune 60004-02-02 16:19 G 23637103.02 23637103.18 23637103.35 0.0088 0.0042

Neptune 60004-04-30 19:26 G 23637191.17 23637191.31 23637191.47 0.0088 0.0053

Neptune 60004-07-27 23:02 G 23637279.33 23637279.46 23637279.59 0.0088 0.0064

Neptune 60004-10-24 02:10 G 23637367.50 23637367.59 23637367.70 0.0088 0.0075

Neptune 60005-01-20 05:17 G 23637455.69 23637455.72 23637455.78 0.0088 0.0086

Earth 60005-10-07 16:19 G 23637716.03 23637716.18 23637716.33 0.2653 0.0204

Moon 60005-10-07 17:46 G 23637716.09 23637716.24 23637716.39 0.2656 0.0294 *

Saturn 60008-04-25 14:24 G 23638646.98 23638647.10 23638647.22 0.0284 0.0142

Saturn 60008-07-23 02:53 G 23638735.48 23638735.62 23638735.75 0.0285 0.0016

Saturn 60008-10-19 15:07 G 23638824.02 23638824.13 23638824.24 0.0285 0.0170

Mars 60009-01-11 23:31 G 23638908.38 23638908.48 23638908.58 0.1643 0.1006

Jupiter 60009-01-15 16:19 G 23638912.10 23638912.18 23638912.27 0.0537 0.0394

Jupiter 60009-04-15 01:12 G 23639001.45 23639001.55 23639001.65 0.0535 0.0333

Venus 60009-04-15 12:14 G 23639001.90 23639002.01 23639002.11 0.3682 0.0188

Pluto 60011-06-11 23:46 G 23639789.46 23639789.49 23639789.56 0.0066 0.0063

Pluto 60011-09-08 00:29 G 23639877.45 23639877.52 23639877.63 0.0066 0.0052

Pluto 60011-12-05 01:26 G 23639965.45 23639965.56 23639965.68 0.0066 0.0040

Pluto 60012-03-02 02:10 G 23640053.46 23640053.59 23640053.72 0.0066 0.0030

Pluto 60012-05-29 02:53 G 23640141.48 23640141.62 23640141.75 0.0067 0.0019

Pluto 60012-08-25 03:22 G 23640229.50 23640229.64 23640229.78 0.0067 0.0008

Pluto 60012-11-21 04:05 G 23640317.53 23640317.67 23640317.81 0.0067 0.0003

Pluto 60013-02-17 04:34 G 23640405.56 23640405.69 23640405.83 0.0067 0.0014

Pluto 60013-05-16 05:02 G 23640493.59 23640493.71 23640493.85 0.0067 0.0025

Pluto 60013-08-12 05:46 G 23640581.63 23640581.74 23640581.87 0.0067 0.0036

Pluto 60013-11-08 06:14 G 23640669.67 23640669.76 23640669.87 0.0067 0.0047

Pluto 60014-02-04 06:43 G 23640757.73 23640757.78 23640757.87 0.0067 0.0059

Venus 60014-10-30 03:36 G 23641025.58 23641025.65 23641025.73 0.3681 0.2387

Jupiter 60015-05-29 05:46 G 23641236.57 23641236.74 23641236.91 0.0492 0.0135

Uranus 60016-01-11 06:14 G 23641463.70 23641463.76 23641463.83 0.0137 0.0119

Earth 60016-04-08 06:14 G 23641551.67 23641551.76 23641551.85 0.2677 0.1604

Moon 60016-04-08 06:43 G 23641551.70 23641551.78 23641551.87 0.2673 0.1732 *

Uranus 60016-04-08 09:36 G 23641551.82 23641551.90 23641552.00 0.0137 0.0099 *

Uranus 60016-07-05 13:12 G 23641639.94 23641640.05 23641640.16 0.0137 0.0079

Uranus 60016-10-01 16:34 G 23641728.07 23641728.19 23641728.32 0.0138 0.0059

Uranus 60016-12-28 20:10 G 23641816.21 23641816.34 23641816.47 0.0138 0.0038

Uranus 60017-03-26 23:31 G 23641904.35 23641904.48 23641904.62 0.0138 0.0018

Uranus 60017-06-23 02:53 G 23641992.49 23641992.62 23641992.76 0.0138 0.0004

Uranus 60017-09-19 06:14 G 23642080.63 23642080.76 23642080.90 0.0138 0.0023

Uranus 60017-12-16 09:36 G 23642168.78 23642168.90 23642169.03 0.0138 0.0043

Uranus 60018-03-14 12:58 G 23642256.93 23642257.04 23642257.16 0.0138 0.0063

Uranus 60018-06-10 16:19 G 23642345.08 23642345.18 23642345.29 0.0138 0.0082

Uranus 60018-09-06 19:41 G 23642433.24 23642433.32 23642433.41 0.0138 0.0102

Earth 60018-10-10 21:07 G 23642467.31 23642467.38 23642467.45 0.2655 0.2362

Moon 60018-10-10 22:34 G 23642467.39 23642467.44 23642467.48 0.2651 0.2510 *

Uranus 60018-12-03 23:02 G 23642521.40 23642521.46 23642521.52 0.0138 0.0122

Jupiter 60021-02-01 05:17 G 23643311.60 23643311.72 23643311.84 0.0535 0.0165

Saturn 60022-05-19 14:38 G 23643783.98 23643784.11 23643784.24 0.0275 0.0178

Saturn 60022-08-16 10:19 G 23643872.75 23643872.93 23643873.11 0.0275 0.0004

Saturn 60022-11-13 06:14 G 23643961.63 23643961.76 23643961.89 0.0274 0.0188

Mars 60023-02-04 20:38 G 23644045.24 23644045.36 23644045.48 0.1874 0.1068

Moon 60023-04-02 03:50 G 23644101.57 23644101.66 23644101.74 0.2687 0.1751

Earth 60023-04-02 03:50 G 23644101.57 23644101.66 23644101.74 0.2681 0.1759 *

Jupiter 60027-03-17 04:34 G 23645546.51 23645546.69 23645546.87 0.0492 0.0056

Mars 60029-09-30 04:05 G 23646474.56 23646474.67 23646474.78 0.1650 0.0820

Mars 60032-06-26 20:24 G 23647475.22 23647475.35 23647475.49 0.1879 0.0766

Jupiter 60032-11-20 08:53 G 23647621.74 23647621.87 23647622.00 0.0536 0.0015

Earth 60036-04-03 22:19 G 23648852.32 23648852.43 23648852.54 0.2679 0.0538

Moon 60036-04-03 22:48 G 23648852.34 23648852.45 23648852.56 0.2685 0.0534 *

Saturn 60037-09-12 15:22 G 23649379.05 23649379.14 23649379.25 0.0285 0.0196

Saturn 60037-12-10 04:05 G 23649467.53 23649467.67 23649467.81 0.0285 0.0038

Saturn 60038-03-08 16:34 G 23649556.06 23649556.19 23649556.31 0.0286 0.0118

Saturn 60038-06-05 04:48 G 23649644.66 23649644.70 23649644.74 0.0286 0.0273

Earth 60038-10-05 18:14 G 23649767.13 23649767.26 23649767.38 0.2652 0.1511

Moon 60038-10-05 19:26 G 23649767.18 23649767.31 23649767.43 0.2656 0.1495 *

Jupiter 60039-01-03 03:36 G 23649856.50 23649856.65 23649856.80 0.0492 0.0245

Mars 60039-02-20 13:55 G 23649904.96 23649905.08 23649905.21 0.1647 0.0045

Jupiter 60044-09-08 12:00 G 23651931.88 23651932.00 23651932.13 0.0536 0.0199

Jupiter 60044-12-06 20:24 G 23652021.32 23652021.35 23652021.38 0.0534 0.0515

Mars 60048-07-12 23:31 G 23653335.38 23653335.48 23653335.59 0.1643 0.0870

Earth 60049-04-06 16:48 G 23653603.09 23653603.20 23653603.31 0.2678 0.0655

Moon 60049-04-06 17:31 G 23653603.12 23653603.23 23653603.34 0.2678 0.0801 *

Jupiter 60050-10-22 02:53 G 23654166.54 23654166.62 23654166.70 0.0491 0.0428

Venus 60050-10-25 11:46 G 23654169.84 23654169.99 23654170.14 0.3689 0.0557

Jupiter 60051-01-20 06:00 G 23654256.62 23654256.75 23654256.88 0.0493 0.0345

Saturn 60051-10-06 14:53 G 23654516.02 23654516.12 23654516.22 0.0275 0.0225

Earth 60051-10-08 22:34 G 23654518.29 23654518.44 23654518.59 0.2653 0.0578

Moon 60051-10-09 00:00 G 23654518.36 23654518.50 23654518.64 0.2654 0.0811 *

Saturn 60052-01-03 10:34 G 23654604.76 23654604.94 23654605.11 0.0275 0.0043

Saturn 60052-04-01 06:29 G 23654693.62 23654693.77 23654693.92 0.0274 0.0141

Jupiter 60056-06-27 14:24 G 23656242.02 23656242.10 23656242.19 0.0537 0.0401

Uranus 60056-08-03 11:46 G 23656278.92 23656278.99 23656279.08 0.0141 0.0127

Jupiter 60056-09-24 23:17 G 23656331.37 23656331.47 23656331.58 0.0535 0.0326

Uranus 60056-10-30 18:58 G 23656367.17 23656367.29 23656367.43 0.0141 0.0098

Uranus 60057-01-27 02:24 G 23656455.45 23656455.60 23656455.77 0.0141 0.0069

Uranus 60057-04-25 09:50 G 23656543.74 23656543.91 23656544.09 0.0141 0.0039

Uranus 60057-07-22 17:17 G 23656632.04 23656632.22 23656632.41 0.0140 0.0010

Uranus 60057-10-19 00:43 G 23656720.35 23656720.53 23656720.72 0.0140 0.0020

Uranus 60058-01-15 08:10 G 23656808.67 23656808.84 23656809.02 0.0140 0.0050

Uranus 60058-04-13 15:22 G 23656897.00 23656897.14 23656897.31 0.0140 0.0081

Uranus 60058-07-10 22:48 G 23656985.35 23656985.45 23656985.59 0.0140 0.0111

Uranus 60058-10-07 06:29 G 23657073.77 23657073.77 23657073.80 0.0140 0.0140

Venus 60060-05-06 18:00 G 23657651.16 23657651.25 23657651.34 0.3682 0.1755

Earth 60062-04-09 11:02 G 23658353.88 23658353.96 23658354.04 0.2677 0.1823

Moon 60062-04-09 11:46 G 23658353.91 23658353.99 23658354.07 0.2673 0.1830 *

Mars 60062-08-05 20:53 G 23658472.26 23658472.37 23658472.48 0.1874 0.1268

Jupiter 60062-11-08 04:19 G 23658566.51 23658566.68 23658566.85 0.0492 0.0148

Venus 60065-11-20 09:36 G 23659674.80 23659674.90 23659675.00 0.3682 0.0808

Saturn 60067-01-30 19:12 G 23660111.22 23660111.30 23660111.39 0.0284 0.0220

Saturn 60067-04-29 07:55 G 23660199.69 23660199.83 23660199.96 0.0285 0.0064

Saturn 60067-07-26 20:10 G 23660288.22 23660288.34 23660288.47 0.0285 0.0093

Saturn 60067-10-23 08:24 G 23660376.79 23660376.85 23660376.92 0.0285 0.0248

Jupiter 60068-07-14 03:07 G 23660641.50 23660641.63 23660641.75 0.0536 0.0151

Mars 60069-03-31 04:19 G 23660901.58 23660901.68 23660901.78 0.1650 0.0958

Earth 60069-04-02 08:38 G 23660903.77 23660903.86 23660903.96 0.2680 0.1530

Moon 60069-04-02 08:53 G 23660903.78 23660903.87 23660903.96 0.2687 0.1506 *

Venus 60071-06-06 01:12 G 23661698.51 23661698.55 23661698.59 0.3681 0.3323

Mars 60071-12-26 21:07 G 23661902.23 23661902.38 23661902.52 0.1879 0.0546

Jupiter 60074-08-27 02:24 G 23662876.42 23662876.60 23662876.77 0.0492 0.0059

Mars 60078-08-21 13:55 G 23664331.96 23664332.08 23664332.21 0.1647 0.0126

Jupiter 60080-05-02 06:58 G 23664951.66 23664951.79 23664951.92 0.0536 0.0020

Saturn 60081-02-22 15:07 G 23665248.10 23665248.13 23665248.16 0.0275 0.0271

Saturn 60081-05-22 10:48 G 23665336.78 23665336.95 23665337.11 0.0275 0.0090

Saturn 60081-08-19 06:29 G 23665425.60 23665425.77 23665425.94 0.0274 0.0093

Neptune 60082-01-07 13:26 G 23665567.01 23665567.06 23665567.12 0.0089 0.0082

Earth 60082-04-05 03:22 G 23665654.52 23665654.64 23665654.75 0.2679 0.0334

Moon 60082-04-05 03:50 G 23665654.55 23665654.66 23665654.77 0.2684 0.0224 *

Neptune 60082-04-05 14:53 G 23665655.05 23665655.12 23665655.21 0.0089 0.0074

Neptune 60082-07-02 16:19 G 23665743.10 23665743.18 23665743.28 0.0089 0.0066

Neptune 60082-09-28 18:00 G 23665831.15 23665831.25 23665831.36 0.0089 0.0057

Neptune 60082-12-25 19:26 G 23665919.20 23665919.31 23665919.43 0.0089 0.0049

Neptune 60083-03-23 20:53 G 23666007.26 23666007.37 23666007.50 0.0089 0.0041

Neptune 60083-06-19 22:19 G 23666095.31 23666095.43 23666095.57 0.0089 0.0033

Neptune 60083-09-15 23:46 G 23666183.37 23666183.49 23666183.63 0.0089 0.0025

Neptune 60083-12-13 01:26 G 23666271.43 23666271.56 23666271.69 0.0089 0.0017

Neptune 60084-03-10 02:53 G 23666359.49 23666359.62 23666359.76 0.0089 0.0009

Neptune 60084-06-06 04:19 G 23666447.54 23666447.68 23666447.82 0.0089 0.0001

Neptune 60084-09-02 05:46 G 23666535.60 23666535.74 23666535.88 0.0089 0.0007

Earth 60084-10-06 00:14 G 23666569.38 23666569.51 23666569.65 0.2652 0.1143

Moon 60084-10-06 01:26 G 23666569.43 23666569.56 23666569.70 0.2657 0.0921 *

Neptune 60084-11-29 07:12 G 23666623.67 23666623.80 23666623.93 0.0089 0.0015

Neptune 60085-02-25 08:38 G 23666711.73 23666711.86 23666711.99 0.0089 0.0023

Neptune 60085-05-24 09:50 G 23666799.79 23666799.91 23666800.05 0.0089 0.0031

Neptune 60085-08-20 11:17 G 23666887.86 23666887.97 23666888.10 0.0089 0.0039

Neptune 60085-11-16 12:43 G 23666975.92 23666976.03 23666976.15 0.0089 0.0047

Neptune 60086-02-12 14:10 G 23667063.99 23667064.09 23667064.20 0.0089 0.0055

Neptune 60086-05-11 15:36 G 23667152.06 23667152.15 23667152.25 0.0089 0.0062

Jupiter 60086-06-15 01:12 G 23667186.40 23667186.55 23667186.70 0.0491 0.0248

Neptune 60086-08-07 16:48 G 23667240.13 23667240.20 23667240.29 0.0089 0.0070

Neptune 60086-11-03 18:14 G 23667328.21 23667328.26 23667328.33 0.0089 0.0078

Neptune 60087-01-30 19:55 G 23667416.29 23667416.33 23667416.36 0.0089 0.0086

Mars 60088-01-11 23:46 G 23667762.37 23667762.49 23667762.60 0.1644 0.0737

Jupiter 60092-02-19 10:19 G 23669261.81 23669261.93 23669262.06 0.0536 0.0201

Jupiter 60092-05-18 18:58 G 23669351.26 23669351.29 23669351.32 0.0534 0.0514

Earth 60095-04-07 21:36 G 23670405.30 23670405.40 23670405.51 0.2678 0.0881

Moon 60095-04-07 22:34 G 23670405.33 23670405.44 23670405.54 0.2677 0.0915 *

Saturn 60096-06-18 20:24 G 23670843.32 23670843.35 23670843.39 0.0284 0.0273

Saturn 60096-09-15 09:07 G 23670931.76 23670931.88 23670932.01 0.0285 0.0115

Saturn 60096-12-12 21:36 G 23671020.27 23671020.40 23671020.54 0.0285 0.0042

Saturn 60097-03-11 09:50 G 23671108.82 23671108.91 23671109.01 0.0286 0.0197

Mars 60097-06-03 09:22 G 23671192.86 23671192.89 23671192.92 0.1640 0.1585

Earth 60097-10-09 04:48 G 23671320.56 23671320.70 23671320.85 0.2654 0.0973

Moon 60097-10-09 06:29 G 23671320.63 23671320.77 23671320.91 0.2652 0.1024 *

Jupiter 60098-04-03 00:14 G 23671496.44 23671496.51 23671496.60 0.0491 0.0434

Jupiter 60098-07-02 03:22 G 23671586.52 23671586.64 23671586.77 0.0493 0.0340

Pluto 60098-12-19 02:24 G 23671756.52 23671756.60 23671756.72 0.0078 0.0063

Pluto 60099-03-17 05:02 G 23671844.56 23671844.71 23671844.86 0.0078 0.0041

Pluto 60099-06-13 06:43 G 23671932.62 23671932.78 23671932.97 0.0077 0.0021

Pluto 60099-09-09 09:07 G 23672020.70 23672020.88 23672021.06 0.0077 0.0002

Uranus 60099-11-04 09:50 G 23672076.89 23672076.91 23672076.94 0.0137 0.0135

Pluto 60099-12-06 11:17 G 23672108.80 23672108.97 23672109.14 0.0077 0.0022

Uranus 60100-01-31 13:12 G 23672164.99 23672165.05 23672165.13 0.0137 0.0115

Pluto 60100-03-04 13:12 G 23672196.91 23672197.05 23672197.20 0.0077 0.0043

Uranus 60100-04-29 16:34 G 23672253.10 23672253.19 23672253.30 0.0137 0.0095

Pluto 60100-05-31 15:07 G 23672285.05 23672285.13 23672285.24 0.0077 0.0064

Uranus 60100-07-26 20:24 G 23672341.23 23672341.35 23672341.46 0.0137 0.0074

Uranus 60100-10-22 23:46 G 23672429.37 23672429.49 23672429.61 0.0137 0.0054

Uranus 60101-01-19 03:07 G 23672517.50 23672517.63 23672517.76 0.0138 0.0033

Uranus 60101-04-17 06:29 G 23672605.64 23672605.77 23672605.91 0.0138 0.0014

Uranus 60101-07-14 10:05 G 23672693.78 23672693.92 23672694.05 0.0138 0.0008

Uranus 60101-10-10 13:26 G 23672781.93 23672782.06 23672782.19 0.0138 0.0027

Uranus 60102-01-06 16:48 G 23672870.07 23672870.20 23672870.33 0.0138 0.0047

Mars 60102-02-04 21:36 G 23672899.31 23672899.40 23672899.49 0.1874 0.1499

Moon 60102-04-01 18:29 G 23672955.24 23672955.27 23672955.31 0.2687 0.2547

Earth 60102-04-01 18:58 G 23672955.26 23672955.29 23672955.33 0.2682 0.2532 *

Uranus 60102-04-04 20:10 G 23672958.22 23672958.34 23672958.46 0.0138 0.0067

Uranus 60102-07-01 23:31 G 23673046.38 23673046.48 23673046.58 0.0138 0.0087

Uranus 60102-09-28 02:53 G 23673134.54 23673134.62 23673134.70 0.0138 0.0107

Uranus 60102-12-25 06:00 G 23673222.71 23673222.75 23673222.81 0.0138 0.0128

Jupiter 60103-12-09 13:26 G 23673571.97 23673572.06 23673572.15 0.0537 0.0388

Jupiter 60104-03-07 22:19 G 23673661.33 23673661.43 23673661.53 0.0534 0.0337

Venus 60107-06-02 13:12 G 23674842.98 23674843.05 23674843.13 0.3689 0.3216

Earth 60108-04-10 15:50 G 23675156.09 23675156.16 23675156.24 0.2677 0.2043

Moon 60108-04-10 16:19 G 23675156.12 23675156.18 23675156.25 0.2672 0.2150 *

Mars 60108-09-30 04:19 G 23675328.59 23675328.68 23675328.77 0.1650 0.1090

Jupiter 60110-04-21 02:10 G 23675896.43 23675896.59 23675896.77 0.0492 0.0148

Saturn 60110-10-10 10:48 G 23676068.80 23676068.95 23676069.10 0.0275 0.0138

Saturn 60111-01-07 06:29 G 23676157.60 23676157.77 23676157.95 0.0274 0.0045

Saturn 60111-04-06 02:38 G 23676246.51 23676246.61 23676246.71 0.0274 0.0229

Venus 60111-05-29 23:46 G 23676300.45 23676300.49 23676300.53 0.3682 0.3381

Mars 60111-06-27 21:22 G 23676329.24 23676329.39 23676329.53 0.1879 0.0353

Earth 60115-04-04 13:41 G 23677705.97 23677706.07 23677706.17 0.2680 0.1296

Moon 60115-04-04 13:55 G 23677705.98 23677706.08 23677706.18 0.2687 0.1299 *

Jupiter 60115-12-26 00:58 G 23677971.42 23677971.54 23677971.67 0.0535 0.0144

Venus 60116-12-12 15:22 G 23678324.04 23678324.14 23678324.24 0.3682 0.0794

Mars 60118-02-20 14:10 G 23678758.96 23678759.09 23678759.21 0.1647 0.0251

Jupiter 60122-02-07 00:58 G 23680206.36 23680206.54 23680206.71 0.0492 0.0049

Venus 60122-06-28 06:58 G 23680347.70 23680347.79 23680347.88 0.3681 0.1759

Saturn 60126-02-03 12:58 G 23681663.92 23681664.04 23681664.16 0.0284 0.0139

Saturn 60126-05-03 01:26 G 23681752.43 23681752.56 23681752.70 0.0285 0.0020

Saturn 60126-07-30 13:55 G 23681840.97 23681841.08 23681841.19 0.0285 0.0174

Mars 60127-07-13 23:46 G 23682189.37 23682189.49 23682189.61 0.1643 0.0597

Jupiter 60127-10-14 04:34 G 23682281.56 23682281.69 23682281.82 0.0536 0.0037

Earth 60128-04-06 08:10 G 23682456.73 23682456.84 23682456.95 0.2679 0.0088

Moon 60128-04-06 08:53 G 23682456.75 23682456.87 23682456.98 0.2682 0.0074 *

Earth 60130-10-08 06:43 G 23683371.63 23683371.78 23683371.92 0.2652 0.0766

Moon 60130-10-08 07:55 G 23683371.69 23683371.83 23683371.97 0.2656 0.0719 *

Jupiter 60133-11-25 22:48 G 23684516.30 23684516.45 23684516.60 0.0491 0.0252

Mars 60136-12-03 09:22 G 23685619.83 23685619.89 23685619.95 0.1640 0.1452

Jupiter 60139-08-02 08:24 G 23686591.73 23686591.85 23686591.97 0.0537 0.0211

Jupiter 60139-10-30 16:48 G 23686681.17 23686681.20 23686681.24 0.0534 0.0507

Saturn 60140-02-27 11:46 G 23686800.86 23686800.99 23686801.12 0.0275 0.0178

Saturn 60140-05-26 07:26 G 23686889.63 23686889.81 23686889.99 0.0275 0.0005

Saturn 60140-08-23 03:22 G 23686978.51 23686978.64 23686978.77 0.0274 0.0187

Uranus 60140-08-24 18:00 G 23686980.18 23686980.25 23686980.36 0.0141 0.0122

Uranus 60140-11-21 01:26 G 23687068.43 23687068.56 23687068.71 0.0141 0.0093

Uranus 60141-02-17 09:07 G 23687156.71 23687156.88 23687157.04 0.0141 0.0063

Earth 60141-04-09 02:38 G 23687207.50 23687207.61 23687207.71 0.2678 0.1098

Moon 60141-04-09 03:22 G 23687207.54 23687207.64 23687207.74 0.2677 0.1232 *

Uranus 60141-05-16 16:19 G 23687245.00 23687245.18 23687245.36 0.0140 0.0034

Mars 60141-08-05 21:36 G 23687326.34 23687326.40 23687326.47 0.1874 0.1673

Uranus 60141-08-12 23:46 G 23687333.31 23687333.49 23687333.68 0.0140 0.0004

Uranus 60141-11-09 07:12 G 23687421.62 23687421.80 23687421.99 0.0140 0.0026

Uranus 60142-02-05 14:38 G 23687509.94 23687510.11 23687510.29 0.0140 0.0055

Uranus 60142-05-04 22:05 G 23687598.28 23687598.42 23687598.57 0.0140 0.0085

Uranus 60142-08-01 05:31 G 23687686.63 23687686.73 23687686.84 0.0140 0.0115

Earth 60143-10-11 11:02 G 23688122.83 23688122.96 23688123.09 0.2654 0.1350

Moon 60143-10-11 12:43 G 23688122.91 23688123.03 23688123.15 0.2652 0.1613 *

Jupiter 60145-09-13 21:50 G 23688826.34 23688826.41 23688826.49 0.0491 0.0439

Jupiter 60145-12-13 00:43 G 23688916.41 23688916.53 23688916.67 0.0493 0.0333

Mars 60148-03-31 04:19 G 23689755.60 23689755.68 23689755.76 0.1650 0.1218

Moon 60148-04-01 23:46 G 23689757.44 23689757.49 23689757.54 0.2688 0.2390

Earth 60148-04-02 00:00 G 23689757.44 23689757.50 23689757.55 0.2681 0.2297 *

Mars 60150-12-26 21:36 G 23690756.25 23690756.40 23690756.55 0.1879 0.0153

Jupiter 60151-05-21 11:46 G 23690901.90 23690901.99 23690902.08 0.0537 0.0392

Jupiter 60151-08-18 20:38 G 23690991.26 23690991.36 23690991.46 0.0535 0.0334

Earth 60154-04-11 20:53 G 23691958.31 23691958.37 23691958.43 0.2677 0.2258

Moon 60154-04-11 21:07 G 23691958.32 23691958.38 23691958.44 0.2671 0.2230 *

Saturn 60155-06-23 14:10 G 23692395.99 23692396.09 23692396.19 0.0284 0.0192

Saturn 60155-09-20 02:53 G 23692484.48 23692484.62 23692484.75 0.0285 0.0035

Saturn 60155-12-17 15:07 G 23692573.01 23692573.13 23692573.26 0.0286 0.0122

Saturn 60156-03-15 03:22 G 23692661.62 23692661.64 23692661.68 0.0286 0.0277

Mars 60157-08-21 14:10 G 23693185.97 23693186.09 23693186.21 0.1647 0.0383

Jupiter 60157-09-30 23:31 G 23693226.31 23693226.48 23693226.65 0.0492 0.0139

Venus 60158-06-23 07:26 G 23693491.68 23693491.81 23693491.94 0.3689 0.1971

Earth 60161-04-04 18:29 G 23694508.17 23694508.27 23694508.38 0.2680 0.1073

Moon 60161-04-04 18:43 G 23694508.18 23694508.28 23694508.39 0.2687 0.1008 *

Jupiter 60163-06-07 00:00 G 23695301.38 23695301.50 23695301.63 0.0535 0.0154

Earth 60163-10-06 08:38 G 23695422.81 23695422.86 23695422.92 0.2651 0.2432

Moon 60163-10-06 09:36 G 23695422.83 23695422.90 23695422.96 0.2657 0.2354 *

Neptune 60165-12-08 00:14 G 23696216.44 23696216.51 23696216.61 0.0088 0.0079

Neptune 60166-03-06 03:22 G 23696304.54 23696304.64 23696304.77 0.0088 0.0068

Neptune 60166-06-02 06:58 G 23696392.65 23696392.79 23696392.93 0.0088 0.0058

Neptune 60166-08-29 09:50 G 23696480.76 23696480.91 23696481.08 0.0088 0.0047

Neptune 60166-11-25 12:58 G 23696568.88 23696569.04 23696569.22 0.0088 0.0037

Mars 60167-01-12 00:00 G 23696616.37 23696616.50 23696616.62 0.1644 0.0463

Neptune 60167-02-21 16:19 G 23696657.01 23696657.18 23696657.36 0.0088 0.0026

Neptune 60167-05-20 19:26 G 23696745.14 23696745.31 23696745.50 0.0088 0.0016

Neptune 60167-08-16 22:48 G 23696833.27 23696833.45 23696833.64 0.0088 0.0006

Neptune 60167-11-13 02:10 G 23696921.40 23696921.59 23696921.78 0.0088 0.0005

Venus 60168-01-03 21:07 G 23696973.30 23696973.38 23696973.46 0.3682 0.2412

Neptune 60168-02-09 05:17 G 23697009.54 23697009.72 23697009.91 0.0088 0.0016

Neptune 60168-05-07 08:38 G 23697097.68 23697097.86 23697098.04 0.0088 0.0027

Neptune 60168-08-03 11:46 G 23697185.83 23697185.99 23697186.17 0.0088 0.0037

Neptune 60168-10-30 14:53 G 23697273.98 23697274.12 23697274.29 0.0088 0.0048

Neptune 60169-01-26 18:29 G 23697362.13 23697362.27 23697362.41 0.0088 0.0059

Neptune 60169-04-24 21:36 G 23697450.30 23697450.40 23697450.52 0.0088 0.0070

Saturn 60169-07-16 11:46 G 23697532.90 23697532.99 23697533.09 0.0275 0.0227

Jupiter 60169-07-19 22:34 G 23697536.27 23697536.44 23697536.62 0.0492 0.0051

Neptune 60169-07-22 00:43 G 23697538.47 23697538.53 23697538.62 0.0088 0.0081

Saturn 60169-10-13 07:26 G 23697621.63 23697621.81 23697621.98 0.0275 0.0046

Saturn 60170-01-10 03:07 G 23697710.48 23697710.63 23697710.79 0.0274 0.0138

Venus 60173-07-19 12:43 G 23698996.93 23698997.03 23698997.14 0.3682 0.0239

Earth 60174-04-07 13:12 G 23699258.93 23699259.05 23699259.16 0.2679 0.0168

Moon 60174-04-07 13:55 G 23699258.96 23699259.08 23699259.19 0.2681 0.0218 *

Jupiter 60175-03-26 02:38 G 23699611.48 23699611.61 23699611.74 0.0536 0.0045

Mars 60176-06-03 09:36 G 23700046.82 23700046.90 23700046.97 0.1640 0.1310

Earth 60176-10-08 12:43 G 23700173.89 23700174.03 23700174.18 0.2653 0.0398

Moon 60176-10-08 14:10 G 23700173.94 23700174.09 23700174.24 0.2655 0.0199 *

Venus 60179-02-02 04:19 G 23701020.61 23701020.68 23701020.75 0.3681 0.2693

Jupiter 60181-05-07 21:22 G 23701846.24 23701846.39 23701846.54 0.0491 0.0242

Uranus 60183-11-25 16:48 G 23702778.17 23702778.20 23702778.25 0.0137 0.0130

Uranus 60184-02-21 20:24 G 23702866.27 23702866.35 23702866.43 0.0137 0.0110

Uranus 60184-05-19 23:46 G 23702954.39 23702954.49 23702954.60 0.0137 0.0089

Uranus 60184-08-16 03:07 G 23703042.52 23703042.63 23703042.76 0.0137 0.0070

Saturn 60184-11-09 18:00 G 23703128.16 23703128.25 23703128.34 0.0284 0.0215

Uranus 60184-11-12 06:43 G 23703130.66 23703130.78 23703130.91 0.0137 0.0049

Saturn 60185-02-06 06:43 G 23703216.64 23703216.78 23703216.91 0.0285 0.0058

Uranus 60185-02-08 10:05 G 23703218.79 23703218.92 23703219.06 0.0138 0.0029

Saturn 60185-05-05 19:12 G 23703305.17 23703305.30 23703305.43 0.0285 0.0099

Uranus 60185-05-07 13:41 G 23703306.93 23703307.07 23703307.20 0.0138 0.0009

Saturn 60185-08-02 07:26 G 23703393.75 23703393.81 23703393.87 0.0286 0.0254

Uranus 60185-08-03 17:02 G 23703395.08 23703395.21 23703395.34 0.0138 0.0012

Uranus 60185-10-30 20:24 G 23703483.22 23703483.35 23703483.48 0.0138 0.0032

Uranus 60186-01-26 23:46 G 23703571.37 23703571.49 23703571.62 0.0138 0.0052

Uranus 60186-04-25 03:07 G 23703659.52 23703659.63 23703659.75 0.0138 0.0072

Uranus 60186-07-22 06:29 G 23703747.68 23703747.77 23703747.87 0.0138 0.0092

Uranus 60186-10-18 09:50 G 23703835.84 23703835.91 23703835.99 0.0138 0.0112

Jupiter 60187-01-12 06:00 G 23703921.63 23703921.75 23703921.87 0.0537 0.0228

Uranus 60187-01-14 13:12 G 23703924.02 23703924.05 23703924.09 0.0138 0.0132

Earth 60187-04-10 07:26 G 23704009.71 23704009.81 23704009.91 0.2678 0.1320

Moon 60187-04-10 08:10 G 23704009.74 23704009.84 23704009.94 0.2676 0.1368 *

Jupiter 60187-04-11 14:38 G 23704011.06 23704011.11 23704011.16 0.0534 0.0490

Mars 60187-09-30 04:34 G 23704182.62 23704182.69 23704182.76 0.1650 0.1352

Earth 60189-10-11 17:31 G 23704925.12 23704925.23 23704925.34 0.2654 0.1743

Moon 60189-10-11 18:58 G 23704925.18 23704925.29 23704925.41 0.2652 0.1799 *

Mars 60190-06-26 21:50 G 23705183.27 23705183.41 23705183.56 0.1879 0.0078

Jupiter 60193-02-23 19:26 G 23706156.24 23706156.31 23706156.38 0.0490 0.0444

Jupiter 60193-05-24 22:19 G 23706246.30 23706246.43 23706246.56 0.0493 0.0326

Moon 60194-04-03 04:48 G 23706559.63 23706559.70 23706559.77 0.2688 0.2018

Earth 60194-04-03 04:48 G 23706559.63 23706559.70 23706559.78 0.2681 0.2068 *

Mars 60197-02-19 14:10 G 23707612.97 23707613.09 23707613.21 0.1647 0.0517

Jupiter 60198-10-31 09:36 G 23708231.82 23708231.90 23708231.99 0.0538 0.0405

Saturn 60198-12-03 13:12 G 23708265.00 23708265.05 23708265.11 0.0275 0.0261

Jupiter 60199-01-28 18:29 G 23708321.17 23708321.27 23708321.38 0.0535 0.0324

Saturn 60199-03-02 08:38 G 23708353.70 23708353.86 23708354.03 0.0275 0.0082

Saturn 60199-05-30 04:34 G 23708442.52 23708442.69 23708442.85 0.0274 0.0101

Mars 60199-11-16 22:05 G 23708613.37 23708613.42 23708613.47 0.1884 0.1749

Earth 60200-04-13 01:41 G 23708760.53 23708760.57 23708760.61 0.2676 0.2471

Moon 60200-04-13 01:55 G 23708760.55 23708760.58 23708760.61 0.2670 0.2538 *

Jupiter 60205-03-13 20:53 G 23710556.20 23710556.37 23710556.55 0.0492 0.0131

Mars 60206-07-14 00:00 G 23711043.37 23711043.50 23711043.62 0.1644 0.0330

Earth 60207-04-06 23:31 G 23711310.37 23711310.48 23711310.59 0.2680 0.0837

Moon 60207-04-07 00:00 G 23711310.39 23711310.50 23711310.60 0.2686 0.0855 *

Earth 60209-10-07 15:07 G 23712225.03 23712225.13 23712225.22 0.2651 0.2056

Moon 60209-10-07 15:50 G 23712225.07 23712225.16 23712225.26 0.2657 0.1996 *

Jupiter 60210-11-17 22:19 G 23712631.31 23712631.43 23712631.56 0.0535 0.0150

Saturn 60214-03-30 19:12 G 23713860.26 23713860.30 23713860.35 0.0284 0.0268

Saturn 60214-06-27 07:55 G 23713948.71 23713948.83 23713948.96 0.0285 0.0110

Saturn 60214-09-23 20:38 G 23714037.22 23714037.36 23714037.49 0.0285 0.0048

Saturn 60214-12-21 08:53 G 23714125.78 23714125.87 23714125.97 0.0286 0.0203

Venus 60215-01-29 08:53 G 23714164.72 23714164.87 23714165.02 0.3689 0.0631

Mars 60215-12-04 09:36 G 23714473.81 23714473.90 23714473.99 0.1640 0.1174

Jupiter 60216-12-30 19:55 G 23714866.15 23714866.33 23714866.50 0.0492 0.0062

Earth 60220-04-08 18:00 G 23716061.14 23716061.25 23716061.36 0.2679 0.0363

Moon 60220-04-08 18:43 G 23716061.17 23716061.28 23716061.39 0.2680 0.0492 *

Jupiter 60222-09-06 01:41 G 23716941.44 23716941.57 23716941.70 0.0536 0.0033

Earth 60222-10-10 19:12 G 23716976.15 23716976.30 23716976.45 0.2653 0.0032

Moon 60222-10-10 20:38 G 23716976.21 23716976.36 23716976.51 0.2653 0.0137 *

Venus 60224-08-10 18:43 G 23717646.18 23717646.28 23717646.37 0.3682 0.1451

Uranus 60224-09-15 00:58 G 23717681.43 23717681.54 23717681.64 0.0141 0.0116

Uranus 60224-12-12 08:10 G 23717769.70 23717769.84 23717769.99 0.0141 0.0087

Uranus 60225-03-10 15:22 G 23717857.98 23717858.14 23717858.32 0.0141 0.0058

Uranus 60225-06-06 22:48 G 23717946.27 23717946.45 23717946.64 0.0140 0.0028

Uranus 60225-09-03 06:14 G 23718034.57 23718034.76 23718034.95 0.0140 0.0002

Uranus 60225-11-30 13:41 G 23718122.89 23718123.07 23718123.25 0.0140 0.0031

Uranus 60226-02-26 20:53 G 23718211.21 23718211.37 23718211.55 0.0140 0.0062

Uranus 60226-05-26 04:19 G 23718299.55 23718299.68 23718299.84 0.0140 0.0091

Uranus 60226-08-22 11:46 G 23718387.92 23718387.99 23718388.10 0.0140 0.0121

Mars 60227-04-01 04:34 G 23718609.64 23718609.69 23718609.74 0.1650 0.1486

Saturn 60228-07-20 08:24 G 23719085.70 23719085.85 23719086.01 0.0275 0.0134

Saturn 60228-10-17 04:05 G 23719174.50 23719174.67 23719174.85 0.0274 0.0049

Jupiter 60228-10-18 18:58 G 23719176.14 23719176.29 23719176.45 0.0491 0.0246

Saturn 60229-01-14 00:00 G 23719263.41 23719263.50 23719263.60 0.0274 0.0233

Mars 60229-12-26 22:19 G 23719610.29 23719610.43 23719610.58 0.1879 0.0264

Venus 60230-02-24 10:19 G 23719669.83 23719669.93 23719670.02 0.3681 0.1120

Earth 60233-04-11 12:29 G 23720811.92 23720812.02 23720812.11 0.2678 0.1541

Moon 60233-04-11 12:58 G 23720811.95 23720812.04 23720812.13 0.2674 0.1607 *

Jupiter 60234-06-25 04:05 G 23721251.56 23721251.67 23721251.79 0.0537 0.0233

Jupiter 60234-09-22 12:43 G 23721340.98 23721341.03 23721341.08 0.0534 0.0485

Venus 60235-09-10 01:41 G 23721693.56 23721693.57 23721693.59 0.3681 0.3633

Earth 60235-10-13 23:46 G 23721727.40 23721727.49 23721727.58 0.2654 0.2128

Moon 60235-10-14 01:12 G 23721727.48 23721727.55 23721727.62 0.2652 0.2362 *

Mars 60236-08-21 14:24 G 23722039.98 23722040.10 23722040.21 0.1647 0.0650

Mars 60239-05-18 22:34 G 23723040.36 23723040.44 23723040.52 0.1884 0.1544

Moon 60240-04-04 09:50 G 23723361.83 23723361.91 23723361.99 0.2688 0.1908

Earth 60240-04-04 09:50 G 23723361.83 23723361.91 23723361.99 0.2681 0.1830 *

Jupiter 60240-08-06 18:00 G 23723486.17 23723486.25 23723486.33 0.0491 0.0434

Jupiter 60240-11-04 20:53 G 23723576.24 23723576.37 23723576.50 0.0493 0.0337

Saturn 60243-11-14 11:31 G 23724680.86 23724680.98 23724681.10 0.0285 0.0136

Saturn 60244-02-11 00:14 G 23724769.37 23724769.51 23724769.64 0.0285 0.0022

Saturn 60244-05-09 12:29 G 23724857.92 23724858.02 23724858.13 0.0286 0.0177

Mars 60246-01-12 00:00 G 23725470.38 23725470.50 23725470.63 0.1643 0.0193

Jupiter 60246-04-13 07:12 G 23725561.72 23725561.80 23725561.89 0.0537 0.0421

Moon 60246-04-14 06:43 G 23725562.78 23725562.78 23725562.78 0.2670 0.2665

Neptune 60246-07-10 11:31 G 23725649.96 23725649.98 23725650.04 0.0089 0.0086

Jupiter 60246-07-11 16:19 G 23725651.07 23725651.18 23725651.29 0.0535 0.0309

Neptune 60246-10-06 13:12 G 23725737.99 23725738.05 23725738.13 0.0089 0.0077

Neptune 60247-01-02 14:53 G 23725826.04 23725826.12 23725826.21 0.0089 0.0069

Neptune 60247-03-31 16:19 G 23725914.08 23725914.18 23725914.28 0.0089 0.0061

Neptune 60247-06-27 17:46 G 23726002.14 23726002.24 23726002.36 0.0089 0.0053

Neptune 60247-09-23 19:12 G 23726090.19 23726090.30 23726090.43 0.0089 0.0045

Neptune 60247-12-20 20:53 G 23726178.25 23726178.37 23726178.50 0.0089 0.0036

Neptune 60248-03-17 22:19 G 23726266.30 23726266.43 23726266.56 0.0089 0.0028

Neptune 60248-06-13 23:46 G 23726354.36 23726354.49 23726354.63 0.0089 0.0020

Neptune 60248-09-10 01:12 G 23726442.42 23726442.55 23726442.69 0.0089 0.0012

Neptune 60248-12-07 02:38 G 23726530.48 23726530.61 23726530.75 0.0089 0.0005

Neptune 60249-03-05 04:05 G 23726618.54 23726618.67 23726618.81 0.0089 0.0005

Neptune 60249-06-01 05:31 G 23726706.60 23726706.73 23726706.87 0.0089 0.0012

Neptune 60249-08-28 06:58 G 23726794.66 23726794.79 23726794.93 0.0089 0.0020

Neptune 60249-11-24 08:24 G 23726882.73 23726882.85 23726882.98 0.0089 0.0028

Neptune 60250-02-20 09:50 G 23726970.79 23726970.91 23726971.04 0.0089 0.0036

Neptune 60250-05-19 11:17 G 23727058.86 23727058.97 23727059.09 0.0089 0.0044

Neptune 60250-08-15 12:43 G 23727146.92 23727147.03 23727147.14 0.0089 0.0051

Neptune 60250-11-11 14:10 G 23727234.99 23727235.09 23727235.19 0.0089 0.0059

Neptune 60251-02-07 15:22 G 23727323.06 23727323.14 23727323.24 0.0089 0.0067

Neptune 60251-05-06 16:48 G 23727411.14 23727411.20 23727411.28 0.0089 0.0075

Neptune 60251-08-02 18:29 G 23727499.22 23727499.27 23727499.31 0.0089 0.0083

Jupiter 60252-08-23 18:29 G 23727886.10 23727886.27 23727886.44 0.0492 0.0124

Earth 60253-04-07 04:19 G 23728112.57 23728112.68 23728112.80 0.2680 0.0622

Moon 60253-04-07 05:02 G 23728112.60 23728112.71 23728112.82 0.2684 0.0495 *

Mars 60255-06-04 09:36 G 23728900.81 23728900.90 23728901.00 0.1640 0.1042

Earth 60255-10-08 21:07 G 23729027.27 23729027.38 23729027.50 0.2652 0.1690

Moon 60255-10-08 22:05 G 23729027.31 23729027.42 23729027.54 0.2656 0.1541 *

Saturn 60257-12-07 10:05 G 23729817.79 23729817.92 23729818.07 0.0275 0.0165

Saturn 60258-03-06 05:46 G 23729906.57 23729906.74 23729906.92 0.0275 0.0018

Jupiter 60258-04-29 20:10 G 23729961.22 23729961.34 23729961.47 0.0536 0.0139

Saturn 60258-06-03 01:41 G 23729995.45 23729995.57 23729995.69 0.0274 0.0200

Pluto 60258-10-19 10:19 G 23730133.88 23730133.93 23730133.99 0.0066 0.0060

Pluto 60259-01-15 10:34 G 23730221.87 23730221.94 23730222.05 0.0066 0.0051

Pluto 60259-04-13 11:31 G 23730309.87 23730309.98 23730310.10 0.0066 0.0039

Pluto 60259-07-10 12:14 G 23730397.89 23730398.01 23730398.14 0.0066 0.0028

Pluto 60259-10-06 12:58 G 23730485.90 23730486.04 23730486.18 0.0066 0.0018

Pluto 60260-01-02 13:41 G 23730573.93 23730574.07 23730574.21 0.0067 0.0007

Pluto 60260-03-30 14:10 G 23730661.95 23730662.09 23730662.24 0.0067 0.0005

Pluto 60260-06-26 14:53 G 23730749.98 23730750.12 23730750.26 0.0067 0.0015

Pluto 60260-09-22 15:22 G 23730838.02 23730838.14 23730838.28 0.0067 0.0026

Pluto 60260-12-19 16:05 G 23730926.06 23730926.17 23730926.29 0.0067 0.0037

Pluto 60261-03-17 16:34 G 23731014.10 23731014.19 23731014.30 0.0067 0.0048

Pluto 60261-06-13 17:17 G 23731102.16 23731102.22 23731102.29 0.0067 0.0059

Jupiter 60264-06-11 17:17 G 23732196.04 23732196.22 23732196.40 0.0491 0.0067

Earth 60266-04-09 23:02 G 23732863.35 23732863.46 23732863.57 0.2679 0.0593

Moon 60266-04-09 23:46 G 23732863.38 23732863.49 23732863.60 0.2680 0.0632 *

Mars 60266-09-30 04:34 G 23733036.67 23733036.69 23733036.71 0.1650 0.1610

Uranus 60267-12-16 23:46 G 23733479.45 23733479.49 23733479.56 0.0137 0.0125

Uranus 60268-03-14 03:22 G 23733567.56 23733567.64 23733567.73 0.0137 0.0105

Uranus 60268-06-10 06:58 G 23733655.68 23733655.79 23733655.90 0.0137 0.0084

Uranus 60268-09-06 10:19 G 23733743.82 23733743.93 23733744.05 0.0137 0.0064

Earth 60268-10-11 01:26 G 23733778.41 23733778.56 23733778.71 0.2653 0.0386

Moon 60268-10-11 03:07 G 23733778.48 23733778.63 23733778.78 0.2653 0.0546 *

Uranus 60268-12-03 13:55 G 23733831.95 23733832.08 23733832.21 0.0138 0.0044

Uranus 60269-03-01 17:17 G 23733920.09 23733920.22 23733920.35 0.0138 0.0024

Uranus 60269-05-28 20:38 G 23734008.23 23734008.36 23734008.50 0.0138 0.0005

Mars 60269-06-26 22:34 G 23734037.30 23734037.44 23734037.59 0.1879 0.0448

Uranus 60269-08-25 00:00 G 23734096.37 23734096.50 23734096.64 0.0138 0.0018

Uranus 60269-11-21 03:36 G 23734184.52 23734184.65 23734184.78 0.0138 0.0037

Jupiter 60270-02-16 00:00 G 23734271.36 23734271.50 23734271.63 0.0536 0.0040

Uranus 60270-02-17 06:58 G 23734272.67 23734272.79 23734272.91 0.0138 0.0057

Uranus 60270-05-16 10:19 G 23734360.82 23734360.93 23734361.04 0.0138 0.0077

Uranus 60270-08-12 13:41 G 23734448.98 23734449.07 23734449.16 0.0138 0.0097

Uranus 60270-11-08 17:02 G 23734537.14 23734537.21 23734537.28 0.0138 0.0117

Uranus 60271-02-04 20:10 G 23734625.34 23734625.34 23734625.36 0.0138 0.0138

Venus 60271-09-05 10:19 G 23734837.86 23734837.93 23734838.00 0.3689 0.3229

Saturn 60273-04-02 12:43 G 23735412.93 23735413.03 23735413.14 0.0284 0.0189

Saturn 60273-06-30 01:26 G 23735501.43 23735501.56 23735501.70 0.0285 0.0031

Saturn 60273-09-26 13:55 G 23735589.96 23735590.08 23735590.20 0.0285 0.0125

Saturn 60273-12-24 02:10 G 23735678.57 23735678.59 23735678.62 0.0286 0.0280

Venus 60275-09-02 00:14 G 23736295.46 23736295.51 23736295.57 0.3682 0.3077

Mars 60276-02-20 14:24 G 23736466.99 23736467.10 23736467.21 0.1647 0.0783

Jupiter 60276-03-30 16:19 G 23736506.03 23736506.18 23736506.33 0.0491 0.0256

Mars 60278-11-16 23:02 G 23737467.36 23737467.46 23737467.56 0.1883 0.1326

Earth 60279-04-12 17:17 G 23737614.14 23737614.22 23737614.30 0.2677 0.1758

Moon 60279-04-12 17:46 G 23737614.16 23737614.24 23737614.32 0.2672 0.1834 *

Venus 60281-03-17 16:05 G 23738319.07 23738319.17 23738319.27 0.3682 0.0485

Earth 60281-10-14 06:14 G 23738529.72 23738529.76 23738529.80 0.2655 0.2531

Moon 60281-10-14 07:26 G 23738529.78 23738529.81 23738529.84 0.2651 0.2589 *

Jupiter 60281-12-05 03:07 G 23738581.51 23738581.63 23738581.75 0.0537 0.0221

Jupiter 60282-03-04 11:46 G 23738670.95 23738670.99 23738671.04 0.0534 0.0497

Mars 60285-07-13 00:00 G 23739897.38 23739897.50 23739897.63 0.1644 0.0084

Moon 60286-04-05 14:53 G 23740164.03 23740164.12 23740164.21 0.2688 0.1543

Earth 60286-04-05 14:53 G 23740164.03 23740164.12 23740164.21 0.2681 0.1598 *

Venus 60286-10-01 07:41 G 23740342.73 23740342.82 23740342.90 0.3681 0.2066

Saturn 60287-04-26 09:22 G 23740549.80 23740549.89 23740550.00 0.0275 0.0221

Saturn 60287-07-24 05:02 G 23740638.54 23740638.71 23740638.89 0.0275 0.0040

Saturn 60287-10-21 00:43 G 23740727.39 23740727.53 23740727.69 0.0274 0.0143

Jupiter 60288-01-17 15:50 G 23740816.08 23740816.16 23740816.23 0.0491 0.0437

Jupiter 60288-04-16 18:29 G 23740906.15 23740906.27 23740906.41 0.0493 0.0334

Jupiter 60293-09-23 05:46 G 23742891.66 23742891.74 23742891.82 0.0537 0.0422

Jupiter 60293-12-21 14:38 G 23742981.01 23742981.11 23742981.22 0.0535 0.0307

Mars 60294-12-03 09:50 G 23743327.80 23743327.91 23743328.01 0.1640 0.0901

Earth 60299-04-08 09:22 G 23744914.78 23744914.89 23744915.00 0.2680 0.0381

Moon 60299-04-08 10:05 G 23744914.81 23744914.92 23744915.03 0.2684 0.0373 *

Jupiter 60300-02-03 17:02 G 23745216.04 23745216.21 23745216.38 0.0492 0.0137

Earth 60301-10-10 03:22 G 23745829.51 23745829.64 23745829.77 0.2652 0.1316

Moon 60301-10-10 04:48 G 23745829.57 23745829.70 23745829.83 0.2655 0.1273 *

Saturn 60302-08-21 16:05 G 23746145.09 23746145.17 23746145.26 0.0285 0.0218

Saturn 60302-11-18 04:48 G 23746233.57 23746233.70 23746233.84 0.0285 0.0060

Saturn 60303-02-14 17:17 G 23746322.10 23746322.22 23746322.35 0.0286 0.0097

Saturn 60303-05-14 05:46 G 23746410.68 23746410.74 23746410.80 0.0286 0.0252

Jupiter 60305-10-10 18:00 G 23747291.13 23747291.25 23747291.38 0.0536 0.0128

Uranus 60308-07-10 00:00 G 23748294.49 23748294.50 23748294.53 0.0141 0.0140

Uranus 60308-10-06 07:12 G 23748382.70 23748382.80 23748382.92 0.0141 0.0111

Mars 60308-12-26 23:02 G 23748464.32 23748464.46 23748464.60 0.1879 0.0664

Uranus 60309-01-02 14:38 G 23748470.96 23748471.11 23748471.26 0.0141 0.0081

Uranus 60309-03-31 21:50 G 23748559.25 23748559.41 23748559.59 0.0140 0.0053

Uranus 60309-06-28 05:31 G 23748647.54 23748647.73 23748647.91 0.0140 0.0023

Uranus 60309-09-24 12:43 G 23748735.85 23748736.03 23748736.22 0.0140 0.0008

Uranus 60309-12-21 20:10 G 23748824.16 23748824.34 23748824.52 0.0140 0.0037

Uranus 60310-03-20 03:36 G 23748912.49 23748912.65 23748912.82 0.0140 0.0066

Uranus 60310-06-16 11:02 G 23749000.83 23749000.96 23749001.10 0.0140 0.0096

Uranus 60310-09-12 18:29 G 23749089.20 23749089.27 23749089.36 0.0140 0.0126

Jupiter 60311-11-23 14:53 G 23749525.95 23749526.12 23749526.30 0.0491 0.0072

Earth 60312-04-11 03:50 G 23749665.55 23749665.66 23749665.77 0.2679 0.0809

Moon 60312-04-11 04:34 G 23749665.59 23749665.69 23749665.80 0.2679 0.0950 *

Earth 60314-10-13 07:41 G 23750580.68 23750580.82 23750580.97 0.2653 0.0761

Moon 60314-10-13 09:22 G 23750580.75 23750580.89 23750581.03 0.2653 0.0942 *

Mars 60315-08-22 14:24 G 23750894.00 23750894.10 23750894.20 0.1647 0.0910

Saturn 60316-09-13 11:31 G 23751281.91 23751281.98 23751282.05 0.0275 0.0250

Saturn 60316-12-11 06:58 G 23751370.62 23751370.79 23751370.96 0.0275 0.0071

Saturn 60317-03-10 02:38 G 23751459.45 23751459.61 23751459.78 0.0274 0.0112

Jupiter 60317-07-29 21:50 G 23751601.28 23751601.41 23751601.54 0.0537 0.0047

Mars 60318-05-18 23:02 G 23751894.35 23751894.46 23751894.58 0.1884 0.1162

Moon 60319-04-05 00:43 G 23752215.51 23752215.53 23752215.54 0.2689 0.2647

Earth 60319-04-05 00:58 G 23752215.52 23752215.54 23752215.57 0.2682 0.2604 *

Venus 60322-09-27 04:48 G 23753486.57 23753486.70 23753486.83 0.3689 0.1895

Jupiter 60323-09-11 13:55 G 23753835.93 23753836.08 23753836.23 0.0491 0.0260

Mars 60325-01-12 00:14 G 23754324.38 23754324.51 23754324.63 0.1644 0.0078

Earth 60325-04-13 22:05 G 23754416.35 23754416.42 23754416.50 0.2677 0.1974

Moon 60325-04-13 22:34 G 23754416.37 23754416.44 23754416.52 0.2672 0.1984 *

Jupiter 60329-05-18 01:26 G 23755911.44 23755911.56 23755911.68 0.0537 0.0224

Jupiter 60329-08-15 10:05 G 23756000.88 23756000.92 23756000.97 0.0534 0.0496

Neptune 60330-06-09 20:10 G 23756299.29 23756299.34 23756299.42 0.0088 0.0082

Neptune 60330-09-05 23:17 G 23756387.38 23756387.47 23756387.59 0.0088 0.0072

Neptune 60330-12-03 02:53 G 23756475.49 23756475.62 23756475.75 0.0088 0.0062

Neptune 60331-03-01 05:46 G 23756563.60 23756563.74 23756563.90 0.0088 0.0051

Neptune 60331-05-28 08:53 G 23756651.72 23756651.87 23756652.04 0.0088 0.0041

Neptune 60331-08-24 12:14 G 23756739.84 23756740.01 23756740.19 0.0088 0.0031

Neptune 60331-11-20 15:22 G 23756827.96 23756828.14 23756828.33 0.0088 0.0020

Saturn 60332-01-08 17:17 G 23756877.18 23756877.22 23756877.26 0.0284 0.0270

Neptune 60332-02-16 18:43 G 23756916.09 23756916.28 23756916.46 0.0088 0.0010

Saturn 60332-04-06 06:00 G 23756965.63 23756965.75 23756965.88 0.0285 0.0113

Moon 60332-04-06 19:55 G 23756966.23 23756966.33 23756966.43 0.2687 0.1389

Earth 60332-04-06 19:41 G 23756966.23 23756966.32 23756966.42 0.2681 0.1367 *

Venus 60332-04-08 21:50 G 23756968.32 23756968.41 23756968.49 0.3682 0.2094

Neptune 60332-05-14 21:50 G 23757004.23 23757004.41 23757004.60 0.0088 0.0001

Saturn 60332-07-03 18:29 G 23757054.14 23757054.27 23757054.41 0.0285 0.0045

Neptune 60332-08-11 01:12 G 23757092.36 23757092.55 23757092.73 0.0088 0.0012

Saturn 60332-09-30 06:58 G 23757142.70 23757142.79 23757142.89 0.0286 0.0199

Neptune 60332-11-07 04:19 G 23757180.50 23757180.68 23757180.86 0.0088 0.0022

Neptune 60333-02-03 07:26 G 23757268.64 23757268.81 23757268.99 0.0088 0.0033

Neptune 60333-05-02 10:48 G 23757356.79 23757356.95 23757357.12 0.0088 0.0043

Neptune 60333-07-29 13:55 G 23757444.94 23757445.08 23757445.24 0.0088 0.0054

Neptune 60333-10-25 17:02 G 23757533.10 23757533.21 23757533.35 0.0088 0.0065

Neptune 60334-01-21 20:38 G 23757621.27 23757621.36 23757621.46 0.0088 0.0076

Neptune 60334-04-19 23:46 G 23757709.47 23757709.49 23757709.54 0.0088 0.0087

Mars 60334-06-04 09:50 G 23757754.80 23757754.91 23757755.03 0.1640 0.0764

Jupiter 60335-06-30 13:12 G 23758145.98 23758146.05 23758146.12 0.0491 0.0445

Jupiter 60335-09-28 15:50 G 23758236.03 23758236.16 23758236.29 0.0493 0.0324

Venus 60337-10-23 13:26 G 23758991.96 23758992.06 23758992.16 0.3681 0.0482

Jupiter 60341-03-06 04:48 G 23760221.61 23760221.70 23760221.78 0.0537 0.0408

Jupiter 60341-06-03 13:41 G 23760310.97 23760311.07 23760311.18 0.0535 0.0321

Venus 60343-05-09 05:02 G 23761015.65 23761015.71 23761015.77 0.3681 0.3016

Mars 60343-10-25 19:26 G 23761185.29 23761185.31 23761185.33 0.1637 0.1613

Earth 60345-04-09 14:24 G 23761716.99 23761717.10 23761717.21 0.2680 0.0159

Moon 60345-04-09 15:07 G 23761717.01 23761717.13 23761717.24 0.2684 0.0085 *

Pluto 60346-04-28 10:48 G 23762100.87 23762100.95 23762101.06 0.0078 0.0066

Saturn 60346-04-30 05:46 G 23762102.59 23762102.74 23762102.89 0.0275 0.0131

Pluto 60346-07-25 12:58 G 23762188.91 23762189.04 23762189.20 0.0078 0.0044

Saturn 60346-07-28 01:26 G 23762191.38 23762191.56 23762191.73 0.0274 0.0050

Pluto 60346-10-21 15:07 G 23762276.97 23762277.13 23762277.31 0.0077 0.0023

Saturn 60346-10-24 21:07 G 23762280.30 23762280.38 23762280.48 0.0274 0.0234

Pluto 60347-01-17 17:31 G 23762365.05 23762365.23 23762365.40 0.0077 0.0003

Pluto 60347-04-15 19:26 G 23762453.14 23762453.31 23762453.48 0.0077 0.0019

Pluto 60347-07-12 21:22 G 23762541.25 23762541.39 23762541.55 0.0077 0.0040

Jupiter 60347-07-17 14:53 G 23762545.95 23762546.12 23762546.29 0.0492 0.0135

Pluto 60347-10-08 23:17 G 23762629.38 23762629.47 23762629.59 0.0077 0.0061

Earth 60347-10-11 09:36 G 23762631.76 23762631.90 23762632.04 0.2652 0.0952

Moon 60347-10-11 11:02 G 23762631.82 23762631.96 23762632.10 0.2654 0.0706 *

Mars 60348-06-26 23:17 G 23762891.34 23762891.47 23762891.61 0.1879 0.0856

Uranus 60352-01-07 06:58 G 23764180.73 23764180.79 23764180.86 0.0137 0.0120

Uranus 60352-04-04 10:19 G 23764268.85 23764268.93 23764269.03 0.0137 0.0101

Uranus 60352-07-01 13:55 G 23764356.98 23764357.08 23764357.20 0.0137 0.0080

Uranus 60352-09-27 17:31 G 23764445.11 23764445.23 23764445.35 0.0138 0.0059

Uranus 60352-12-24 20:53 G 23764533.24 23764533.37 23764533.50 0.0138 0.0039

Jupiter 60353-03-22 16:34 G 23764621.07 23764621.19 23764621.32 0.0535 0.0130

Uranus 60353-03-23 00:29 G 23764621.38 23764621.52 23764621.65 0.0138 0.0019

Uranus 60353-06-19 03:50 G 23764709.52 23764709.66 23764709.79 0.0138 0.0002

Uranus 60353-09-15 07:12 G 23764797.67 23764797.80 23764797.93 0.0138 0.0022

Uranus 60353-12-12 10:34 G 23764885.82 23764885.94 23764886.07 0.0138 0.0042

Uranus 60354-03-10 13:55 G 23764973.97 23764974.08 23764974.20 0.0138 0.0062

Uranus 60354-06-06 17:17 G 23765062.12 23765062.22 23765062.33 0.0138 0.0082

Uranus 60354-09-02 20:38 G 23765150.28 23765150.36 23765150.46 0.0138 0.0102

Uranus 60354-11-30 00:00 G 23765238.45 23765238.50 23765238.57 0.0138 0.0122

Mars 60355-02-20 14:38 G 23765321.01 23765321.11 23765321.20 0.1647 0.1048

Mars 60357-11-16 23:31 G 23766321.36 23766321.48 23766321.61 0.1884 0.0943

Earth 60358-04-12 08:38 G 23766467.76 23766467.86 23766467.97 0.2679 0.1041

Moon 60358-04-12 09:22 G 23766467.79 23766467.89 23766468.00 0.2676 0.1053 *

Jupiter 60359-05-05 13:41 G 23766855.90 23766856.07 23766856.25 0.0492 0.0058

Earth 60360-10-13 14:10 G 23767382.95 23767383.09 23767383.22 0.2653 0.1149

Moon 60360-10-13 15:36 G 23767383.02 23767383.15 23767383.28 0.2653 0.1254 *

Saturn 60361-08-24 08:53 G 23767697.76 23767697.87 23767697.99 0.0285 0.0147

Saturn 60361-11-20 21:36 G 23767786.26 23767786.40 23767786.54 0.0285 0.0010

Saturn 60362-02-17 09:50 G 23767874.81 23767874.91 23767875.03 0.0286 0.0167

Mars 60364-07-13 00:14 G 23768751.39 23768751.51 23768751.64 0.1643 0.0213

Jupiter 60365-01-08 19:55 G 23768931.20 23768931.33 23768931.46 0.0536 0.0054

Moon 60365-04-05 05:46 G 23769017.69 23769017.74 23769017.78 0.2689 0.2410

Earth 60365-04-05 06:00 G 23769017.70 23769017.75 23769017.80 0.2682 0.2372 *

Jupiter 60371-02-21 11:46 G 23771165.84 23771165.99 23771166.14 0.0491 0.0262

Earth 60371-04-15 02:53 G 23771218.56 23771218.62 23771218.69 0.2677 0.2195

Moon 60371-04-15 03:22 G 23771218.59 23771218.64 23771218.70 0.2672 0.2284 *

Mars 60373-12-03 09:50 G 23772181.80 23772181.91 23772182.03 0.1640 0.0636

Saturn 60375-09-17 07:41 G 23772834.68 23772834.82 23772834.96 0.0275 0.0162

Saturn 60375-12-15 03:07 G 23772923.46 23772923.63 23772923.81 0.0275 0.0021

Saturn 60376-03-12 22:48 G 23773012.34 23773012.45 23773012.58 0.0274 0.0204

Jupiter 60376-10-27 23:31 G 23773241.36 23773241.48 23773241.60 0.0537 0.0232

Jupiter 60377-01-25 08:10 G 23773330.79 23773330.84 23773330.89 0.0535 0.0489

Earth 60378-04-08 00:43 G 23773768.43 23773768.53 23773768.63 0.2681 0.1136

Moon 60378-04-08 00:58 G 23773768.44 23773768.54 23773768.65 0.2686 0.1088 *

Venus 60379-05-04 06:14 G 23774159.61 23774159.76 23774159.91 0.3689 0.0686

Earth 60380-10-08 12:00 G 23774682.97 23774683.00 23774683.02 0.2651 0.2594

Moon 60380-10-08 12:43 G 23774682.97 23774683.03 23774683.08 0.2656 0.2451 *

Jupiter 60382-12-10 11:02 G 23775475.89 23775475.96 23775476.03 0.0490 0.0445

Jupiter 60383-03-10 13:26 G 23775565.93 23775566.06 23775566.20 0.0492 0.0323

Mars 60383-04-25 19:26 G 23775612.26 23775612.31 23775612.37 0.1637 0.1477

Mars 60387-12-26 23:46 G 23777318.37 23777318.49 23777318.61 0.1879 0.1059

Jupiter 60388-08-16 03:07 G 23777551.55 23777551.63 23777551.71 0.0538 0.0410

Jupiter 60388-11-13 12:14 G 23777640.90 23777641.01 23777641.11 0.0535 0.0321

Venus 60388-11-13 19:12 G 23777641.20 23777641.30 23777641.40 0.3682 0.1125

Saturn 60391-01-11 10:19 G 23778429.83 23778429.93 23778430.02 0.0284 0.0199

Saturn 60391-04-09 22:48 G 23778518.32 23778518.45 23778518.59 0.0285 0.0043

Earth 60391-04-10 19:12 G 23778519.19 23778519.30 23778519.42 0.2679 0.0098

Moon 60391-04-10 19:55 G 23778519.22 23778519.33 23778519.44 0.2683 0.0103 *

Saturn 60391-07-07 11:17 G 23778606.85 23778606.97 23778607.10 0.0285 0.0113

Saturn 60391-10-03 23:31 G 23778695.44 23778695.48 23778695.53 0.0286 0.0268

Uranus 60392-07-30 06:58 G 23778995.74 23778995.79 23778995.86 0.0141 0.0133

Uranus 60392-10-26 14:10 G 23779083.98 23779084.09 23779084.22 0.0141 0.0104

Uranus 60393-01-22 21:36 G 23779172.25 23779172.40 23779172.56 0.0141 0.0075

Uranus 60393-04-21 04:48 G 23779260.53 23779260.70 23779260.88 0.0140 0.0046

Uranus 60393-07-18 12:14 G 23779348.83 23779349.01 23779349.20 0.0140 0.0016

Earth 60393-10-11 15:50 G 23779434.02 23779434.16 23779434.31 0.2652 0.0573

Moon 60393-10-11 17:31 G 23779434.08 23779434.23 23779434.37 0.2654 0.0533 *

Uranus 60393-10-14 19:41 G 23779437.13 23779437.32 23779437.51 0.0140 0.0014

Uranus 60394-01-11 03:07 G 23779525.45 23779525.63 23779525.81 0.0140 0.0043

Uranus 60394-04-09 10:19 G 23779613.78 23779613.93 23779614.10 0.0140 0.0073

Venus 60394-05-30 10:48 G 23779664.86 23779664.95 23779665.05 0.3681 0.1447

Uranus 60394-07-06 17:46 G 23779702.13 23779702.24 23779702.38 0.0140 0.0103

Mars 60394-08-21 14:38 G 23779748.02 23779748.11 23779748.20 0.1647 0.1177

Uranus 60394-10-03 01:12 G 23779790.51 23779790.55 23779790.62 0.0140 0.0133

Jupiter 60394-12-27 12:29 G 23779875.85 23779876.02 23779876.19 0.0492 0.0129

Mars 60397-05-18 00:00 G 23780748.37 23780748.50 23780748.64 0.1883 0.0736

Jupiter 60400-09-01 15:50 G 23781951.03 23781951.16 23781951.29 0.0536 0.0145

Mars 60404-01-12 00:29 G 23783178.39 23783178.52 23783178.64 0.1644 0.0349

Earth 60404-04-12 13:41 G 23783269.97 23783270.07 23783270.17 0.2678 0.1252

Moon 60404-04-12 14:24 G 23783270.00 23783270.10 23783270.19 0.2675 0.1395 *

Saturn 60405-02-03 05:46 G 23783566.65 23783566.74 23783566.84 0.0275 0.0227

Saturn 60405-05-03 01:26 G 23783655.38 23783655.56 23783655.73 0.0275 0.0047

Saturn 60405-07-30 20:53 G 23783744.23 23783744.37 23783744.53 0.0274 0.0137

Earth 60406-10-14 20:24 G 23784185.23 23784185.35 23784185.47 0.2654 0.1527

Moon 60406-10-14 21:50 G 23784185.29 23784185.41 23784185.52 0.2651 0.1746 *

Jupiter 60406-10-15 11:46 G 23784185.81 23784185.99 23784186.16 0.0492 0.0057

Neptune 60411-01-09 10:05 G 23785732.91 23785732.92 23785732.94 0.0089 0.0089

Moon 60411-04-06 10:48 G 23785819.88 23785819.95 23785820.01 0.2688 0.2195

Earth 60411-04-06 11:02 G 23785819.89 23785819.96 23785820.02 0.2682 0.2137 *

Neptune 60411-04-07 11:31 G 23785820.93 23785820.98 23785821.05 0.0089 0.0081

Neptune 60411-07-04 12:58 G 23785908.97 23785909.04 23785909.13 0.0089 0.0073

Neptune 60411-09-30 14:24 G 23785997.02 23785997.10 23785997.21 0.0089 0.0065

Neptune 60411-12-27 16:05 G 23786085.07 23786085.17 23786085.28 0.0089 0.0056

Neptune 60412-03-24 17:31 G 23786173.12 23786173.23 23786173.35 0.0089 0.0048

Jupiter 60412-06-20 18:43 G 23786261.15 23786261.28 23786261.41 0.0536 0.0048

Neptune 60412-06-20 18:58 G 23786261.18 23786261.29 23786261.42 0.0089 0.0040 *

Neptune 60412-09-16 20:38 G 23786349.24 23786349.36 23786349.49 0.0089 0.0032

Neptune 60412-12-13 22:05 G 23786437.29 23786437.42 23786437.56 0.0089 0.0024

Neptune 60413-03-11 23:31 G 23786525.35 23786525.48 23786525.62 0.0089 0.0016

Mars 60413-06-03 10:05 G 23786608.80 23786608.92 23786609.04 0.1640 0.0494

Neptune 60413-06-08 00:58 G 23786613.41 23786613.54 23786613.68 0.0089 0.0009

Neptune 60413-09-04 02:38 G 23786701.47 23786701.61 23786701.74 0.0089 0.0002

Neptune 60413-12-01 04:05 G 23786789.53 23786789.67 23786789.80 0.0089 0.0009

Neptune 60414-02-27 05:31 G 23786877.60 23786877.73 23786877.86 0.0089 0.0016

Neptune 60414-05-26 06:58 G 23786965.66 23786965.79 23786965.92 0.0089 0.0024

Neptune 60414-08-22 08:24 G 23787053.72 23787053.85 23787053.97 0.0089 0.0032

Neptune 60414-11-18 09:36 G 23787141.79 23787141.90 23787142.03 0.0089 0.0041

Neptune 60415-02-14 11:02 G 23787229.85 23787229.96 23787230.08 0.0089 0.0048

Neptune 60415-05-13 12:29 G 23787317.92 23787318.02 23787318.13 0.0089 0.0056

Neptune 60415-08-09 13:41 G 23787405.99 23787406.07 23787406.18 0.0089 0.0064

Neptune 60415-11-05 15:22 G 23787494.07 23787494.14 23787494.22 0.0089 0.0072

Neptune 60416-02-01 16:48 G 23787582.14 23787582.20 23787582.26 0.0089 0.0079

Neptune 60416-04-29 18:00 G 23787670.24 23787670.25 23787670.29 0.0089 0.0087

Earth 60417-04-15 07:55 G 23788020.78 23788020.83 23788020.88 0.2677 0.2411

Moon 60417-04-15 08:10 G 23788020.80 23788020.84 23788020.89 0.2671 0.2386 *

Jupiter 60418-08-03 10:34 G 23788495.80 23788495.94 23788496.10 0.0491 0.0246

Saturn 60420-05-30 12:43 G 23789161.95 23789162.03 23789162.10 0.0284 0.0239

Saturn 60420-08-27 01:12 G 23789250.42 23789250.55 23789250.69 0.0285 0.0082

Saturn 60420-11-23 13:55 G 23789338.95 23789339.08 23789339.21 0.0285 0.0076

Saturn 60421-02-20 02:10 G 23789427.52 23789427.59 23789427.67 0.0286 0.0231

Mars 60422-10-24 19:41 G 23790039.25 23790039.32 23790039.39 0.1637 0.1340

Earth 60424-04-08 05:31 G 23790570.63 23790570.73 23790570.84 0.2681 0.0914

Moon 60424-04-08 06:00 G 23790570.65 23790570.75 23790570.86 0.2686 0.0857 *

Jupiter 60424-04-08 21:50 G 23790571.29 23790571.41 23790571.53 0.0537 0.0233

Jupiter 60424-07-07 06:29 G 23790660.73 23790660.77 23790660.83 0.0534 0.0487

Earth 60426-10-09 18:00 G 23791485.17 23791485.25 23791485.33 0.2651 0.2236

Moon 60426-10-09 18:58 G 23791485.21 23791485.29 23791485.38 0.2655 0.2188 *

Mars 60427-06-27 00:00 G 23791745.40 23791745.50 23791745.61 0.1879 0.1263

Jupiter 60430-05-22 09:07 G 23792805.81 23792805.88 23792805.95 0.0490 0.0443

Jupiter 60430-08-20 11:46 G 23792895.85 23792895.99 23792896.12 0.0492 0.0323

Mars 60434-02-19 14:38 G 23794175.04 23794175.11 23794175.19 0.1647 0.1307

Saturn 60434-06-23 07:26 G 23794298.76 23794298.81 23794298.87 0.0276 0.0260

Saturn 60434-09-20 03:07 G 23794387.46 23794387.63 23794387.79 0.0275 0.0080

Saturn 60434-12-17 22:48 G 23794476.28 23794476.45 23794476.61 0.0275 0.0103

Uranus 60435-10-31 10:19 G 23794793.93 23794793.93 23794793.96 0.0137 0.0137

Venus 60435-12-09 07:41 G 23794832.76 23794832.82 23794832.89 0.3689 0.3314

Jupiter 60436-01-27 01:12 G 23794881.47 23794881.55 23794881.64 0.0538 0.0417

Uranus 60436-01-27 14:10 G 23794882.02 23794882.09 23794882.16 0.0137 0.0115

Uranus 60436-04-24 17:31 G 23794970.14 23794970.23 23794970.33 0.0137 0.0095

Jupiter 60436-04-25 10:19 G 23794970.83 23794970.93 23794971.04 0.0536 0.0317

Uranus 60436-07-21 21:07 G 23795058.27 23795058.38 23795058.49 0.0137 0.0075

Uranus 60436-10-18 00:29 G 23795146.40 23795146.52 23795146.65 0.0138 0.0055

Mars 60436-11-16 00:14 G 23795175.37 23795175.51 23795175.65 0.1884 0.0560

Uranus 60437-01-14 04:05 G 23795234.54 23795234.67 23795234.80 0.0138 0.0034

Earth 60437-04-11 00:14 G 23795321.39 23795321.51 23795321.62 0.2679 0.0301

Moon 60437-04-11 00:58 G 23795321.43 23795321.54 23795321.65 0.2681 0.0419 *

Uranus 60437-04-12 07:26 G 23795322.68 23795322.81 23795322.95 0.0138 0.0014

Uranus 60437-07-09 10:48 G 23795410.82 23795410.95 23795411.09 0.0138 0.0008

Uranus 60437-10-05 14:10 G 23795498.96 23795499.09 23795499.23 0.0138 0.0027

Uranus 60438-01-01 17:46 G 23795587.11 23795587.24 23795587.37 0.0138 0.0047

Uranus 60438-03-30 21:07 G 23795675.26 23795675.38 23795675.50 0.0138 0.0067

Uranus 60438-06-27 00:14 G 23795763.42 23795763.51 23795763.62 0.0138 0.0088

Uranus 60438-09-23 03:36 G 23795851.58 23795851.65 23795851.74 0.0138 0.0108

Uranus 60438-12-20 06:58 G 23795939.75 23795939.79 23795939.85 0.0138 0.0127

Earth 60439-10-12 22:05 G 23796236.27 23796236.42 23796236.57 0.2652 0.0205

Moon 60439-10-12 23:31 G 23796236.33 23796236.48 23796236.63 0.2654 0.0076 *

Venus 60439-12-06 00:58 G 23796290.48 23796290.54 23796290.61 0.3682 0.2748

Jupiter 60442-06-08 10:34 G 23797205.77 23797205.94 23797206.11 0.0492 0.0131

Mars 60443-07-13 00:29 G 23797605.40 23797605.52 23797605.64 0.1644 0.0476

Venus 60445-06-20 16:48 G 23798314.09 23798314.20 23798314.30 0.3682 0.0188

Jupiter 60448-02-12 14:24 G 23799280.97 23799281.10 23799281.22 0.0536 0.0147

Saturn 60450-01-14 02:24 G 23799982.49 23799982.60 23799982.73 0.0284 0.0134

Saturn 60450-04-12 15:07 G 23800070.99 23800071.13 23800071.27 0.0285 0.0022

Earth 60450-04-13 18:29 G 23800072.18 23800072.27 23800072.37 0.2678 0.1476

Moon 60450-04-13 19:12 G 23800072.21 23800072.30 23800072.39 0.2674 0.1487 *

Saturn 60450-07-10 03:36 G 23800159.54 23800159.65 23800159.75 0.0285 0.0177

Venus 60451-01-04 08:24 G 23800337.77 23800337.85 23800337.92 0.3681 0.2393

Earth 60452-10-15 02:53 G 23800987.51 23800987.62 23800987.72 0.2654 0.1922

Moon 60452-10-15 04:05 G 23800987.57 23800987.67 23800987.77 0.2650 0.1948 *

Mars 60452-12-02 10:05 G 23801035.80 23801035.92 23801036.05 0.1640 0.0362

Jupiter 60454-03-27 09:36 G 23801515.72 23801515.90 23801516.07 0.0491 0.0059

Moon 60457-04-06 15:50 G 23802622.08 23802622.16 23802622.24 0.2688 0.1870

Earth 60457-04-06 15:50 G 23802622.08 23802622.16 23802622.24 0.2682 0.1903 *

Jupiter 60459-12-01 18:00 G 23803591.12 23803591.25 23803591.38 0.0536 0.0032

Mars 60462-04-24 19:41 G 23804466.24 23804466.32 23804466.41 0.1637 0.1200

Earth 60463-04-16 12:43 G 23804823.02 23804823.03 23804823.05 0.2677 0.2626

Saturn 60464-02-07 00:43 G 23805119.38 23805119.53 23805119.68 0.0275 0.0150

Saturn 60464-05-05 20:24 G 23805208.17 23805208.35 23805208.52 0.0275 0.0032

Saturn 60464-08-02 16:05 G 23805297.07 23805297.17 23805297.28 0.0274 0.0216

Jupiter 60466-01-13 08:53 G 23805825.72 23805825.87 23805826.02 0.0491 0.0241

Mars 60466-12-26 00:29 G 23806172.43 23806172.52 23806172.61 0.1879 0.1469

Earth 60470-04-09 10:34 G 23807372.83 23807372.94 23807373.05 0.2680 0.0677

Moon 60470-04-09 11:02 G 23807372.85 23807372.96 23807373.07 0.2686 0.0641 *

Jupiter 60471-09-19 20:53 G 23807901.25 23807901.37 23807901.49 0.0537 0.0223

Jupiter 60471-12-18 05:31 G 23807990.69 23807990.73 23807990.78 0.0534 0.0496

Earth 60472-10-10 00:14 G 23808287.41 23808287.51 23808287.62 0.2651 0.1866

Moon 60472-10-10 01:26 G 23808287.45 23808287.56 23808287.67 0.2655 0.1717 *

Mars 60473-08-20 14:38 G 23808602.06 23808602.11 23808602.17 0.1647 0.1440

Mars 60476-05-17 00:29 G 23809602.38 23809602.52 23809602.67 0.1884 0.0354

Uranus 60476-08-19 13:55 G 23809697.01 23809697.08 23809697.17 0.0141 0.0126

Uranus 60476-11-15 21:07 G 23809785.26 23809785.38 23809785.53 0.0141 0.0097

Uranus 60477-02-12 04:34 G 23809873.54 23809873.69 23809873.86 0.0140 0.0067

Uranus 60477-05-11 12:00 G 23809961.82 23809962.00 23809962.18 0.0140 0.0038

Uranus 60477-08-07 19:26 G 23810050.12 23810050.31 23810050.49 0.0140 0.0009

Jupiter 60477-11-01 08:10 G 23810135.76 23810135.84 23810135.93 0.0491 0.0426

Uranus 60477-11-04 02:38 G 23810138.43 23810138.61 23810138.80 0.0140 0.0021

Jupiter 60478-01-30 10:48 G 23810225.83 23810225.95 23810226.08 0.0493 0.0344

Uranus 60478-01-31 10:05 G 23810226.75 23810226.92 23810227.10 0.0140 0.0051

Uranus 60478-04-29 17:31 G 23810315.08 23810315.23 23810315.39 0.0140 0.0080

Uranus 60478-07-27 00:58 G 23810403.43 23810403.54 23810403.66 0.0140 0.0110

Uranus 60478-10-23 08:38 G 23810491.86 23810491.86 23810491.86 0.0140 0.0140

Saturn 60479-06-03 04:34 G 23810714.58 23810714.69 23810714.80 0.0284 0.0178

Saturn 60479-08-30 17:17 G 23810803.08 23810803.22 23810803.35 0.0285 0.0022

Saturn 60479-11-27 05:46 G 23810891.62 23810891.74 23810891.86 0.0285 0.0135

Mars 60483-01-11 00:29 G 23812032.41 23812032.52 23812032.64 0.1643 0.0612

Earth 60483-04-12 05:02 G 23812123.60 23812123.71 23812123.82 0.2679 0.0520

Moon 60483-04-12 05:46 G 23812123.63 23812123.74 23812123.85 0.2679 0.0600 *

Jupiter 60483-07-08 23:46 G 23812211.41 23812211.49 23812211.58 0.0537 0.0412

Jupiter 60483-10-06 08:53 G 23812300.77 23812300.87 23812300.98 0.0535 0.0321

Earth 60485-10-13 04:19 G 23813038.53 23813038.68 23813038.83 0.2652 0.0180

Moon 60485-10-13 05:46 G 23813038.59 23813038.74 23813038.89 0.2653 0.0248 *

Venus 60486-12-30 02:10 G 23813481.46 23813481.59 23813481.72 0.3689 0.1793

Jupiter 60489-11-18 08:53 G 23814535.70 23814535.87 23814536.04 0.0492 0.0137

Mars 60492-06-02 10:19 G 23815462.80 23815462.93 23815463.05 0.1640 0.0234

Saturn 60493-06-26 02:10 G 23815851.46 23815851.59 23815851.72 0.0276 0.0184

Saturn 60493-09-22 21:36 G 23815940.23 23815940.40 23815940.58 0.0275 0.0008

Saturn 60493-12-20 17:17 G 23816029.10 23816029.22 23816029.36 0.0275 0.0181

Neptune 60494-12-08 16:05 G 23816382.15 23816382.17 23816382.23 0.0088 0.0086

Neptune 60495-03-06 19:41 G 23816470.23 23816470.32 23816470.41 0.0088 0.0076

Neptune 60495-06-02 22:34 G 23816558.33 23816558.44 23816558.57 0.0088 0.0065

Jupiter 60495-07-25 12:43 G 23816610.90 23816611.03 23816611.15 0.0536 0.0144

Neptune 60495-08-30 01:41 G 23816646.44 23816646.57 23816646.72 0.0088 0.0055

Neptune 60495-11-26 04:48 G 23816734.55 23816734.70 23816734.87 0.0088 0.0045

Neptune 60496-02-22 08:10 G 23816822.67 23816822.84 23816823.01 0.0088 0.0034

Earth 60496-04-13 23:31 G 23816874.39 23816874.48 23816874.56 0.2678 0.1693

Moon 60496-04-14 00:00 G 23816874.42 23816874.50 23816874.58 0.2674 0.1808 *

Neptune 60496-05-20 11:17 G 23816910.79 23816910.97 23816911.15 0.0088 0.0024

Venus 60496-07-11 22:34 G 23816963.35 23816963.44 23816963.53 0.3682 0.1779

Neptune 60496-08-16 14:38 G 23816998.92 23816999.11 23816999.29 0.0088 0.0014

Neptune 60496-11-12 17:46 G 23817087.05 23817087.24 23817087.43 0.0088 0.0003

Neptune 60497-02-08 20:53 G 23817175.19 23817175.37 23817175.56 0.0088 0.0008

Neptune 60497-05-08 00:00 G 23817263.32 23817263.50 23817263.69 0.0088 0.0018

Neptune 60497-08-04 03:22 G 23817351.47 23817351.64 23817351.82 0.0088 0.0029

Neptune 60497-10-31 06:29 G 23817439.61 23817439.77 23817439.95 0.0088 0.0039

Neptune 60498-01-27 09:36 G 23817527.76 23817527.90 23817528.07 0.0088 0.0050

Neptune 60498-04-25 12:58 G 23817615.91 23817616.04 23817616.19 0.0088 0.0061

Neptune 60498-07-22 16:05 G 23817704.08 23817704.17 23817704.30 0.0088 0.0072

Earth 60498-10-16 09:07 G 23817789.80 23817789.88 23817789.95 0.2654 0.2302

Moon 60498-10-16 10:19 G 23817789.89 23817789.93 23817789.97 0.2650 0.2534 *

Neptune 60498-10-18 19:12 G 23817792.26 23817792.30 23817792.39 0.0088 0.0083

Jupiter 60501-09-07 07:55 G 23818845.65 23818845.83 23818846.01 0.0491 0.0051

Mars 60501-10-24 19:55 G 23818893.23 23818893.33 23818893.42 0.1637 0.1067

Venus 60502-01-26 14:10 G 23818986.99 23818987.09 23818987.19 0.3682 0.0799

Earth 60503-04-08 20:53 G 23819424.28 23819424.37 23819424.46 0.2681 0.1670

Moon 60503-04-08 21:07 G 23819424.29 23819424.38 23819424.46 0.2688 0.1723 *

Pluto 60506-02-25 19:41 G 23820478.31 23820478.32 23820478.34 0.0066 0.0065

Pluto 60506-05-24 19:55 G 23820566.27 23820566.33 23820566.43 0.0066 0.0056

Mars 60506-06-27 00:43 G 23820599.47 23820599.53 23820599.60 0.1879 0.1662

Pluto 60506-08-20 20:53 G 23820654.27 23820654.37 23820654.48 0.0066 0.0044

Pluto 60506-11-16 21:36 G 23820742.28 23820742.40 23820742.53 0.0066 0.0033

Pluto 60507-02-12 22:19 G 23820830.30 23820830.43 23820830.57 0.0066 0.0023

Pluto 60507-05-11 23:02 G 23820918.32 23820918.46 23820918.60 0.0066 0.0012

Jupiter 60507-05-14 16:34 G 23820921.06 23820921.19 23820921.32 0.0537 0.0031

Pluto 60507-08-07 23:31 G 23821006.34 23821006.48 23821006.63 0.0067 0.0002

Venus 60507-08-12 05:46 G 23821010.70 23821010.74 23821010.78 0.3681 0.3336

Pluto 60507-11-04 00:14 G 23821094.37 23821094.51 23821094.65 0.0067 0.0010

Pluto 60508-01-31 00:43 G 23821182.40 23821182.53 23821182.67 0.0067 0.0021

Pluto 60508-04-28 01:26 G 23821270.44 23821270.56 23821270.69 0.0067 0.0032

Pluto 60508-07-25 01:55 G 23821358.48 23821358.58 23821358.70 0.0067 0.0043

Pluto 60508-10-21 02:38 G 23821446.54 23821446.61 23821446.70 0.0067 0.0054

Saturn 60508-10-21 05:46 G 23821446.67 23821446.74 23821446.83 0.0283 0.0229 *

Pluto 60509-01-17 03:07 G 23821534.61 23821534.63 23821534.68 0.0067 0.0066

Saturn 60509-01-17 18:29 G 23821535.14 23821535.27 23821535.41 0.0284 0.0073

Saturn 60509-04-16 07:12 G 23821623.66 23821623.80 23821623.93 0.0284 0.0083

Saturn 60509-07-13 19:26 G 23821712.24 23821712.31 23821712.38 0.0285 0.0236

Mars 60513-02-19 14:53 G 23823029.08 23823029.12 23823029.15 0.1647 0.1571

Jupiter 60513-06-26 06:58 G 23823155.64 23823155.79 23823155.95 0.0491 0.0239

Mars 60515-11-17 01:12 G 23824029.40 23824029.55 23824029.69 0.1883 0.0145

Earth 60516-04-10 15:36 G 23824175.04 23824175.15 23824175.26 0.2680 0.0455

Moon 60516-04-10 16:05 G 23824175.06 23824175.17 23824175.28 0.2685 0.0356 *

Earth 60518-10-12 06:29 G 23825089.65 23825089.77 23825089.89 0.2651 0.1501

Moon 60518-10-12 07:41 G 23825089.70 23825089.82 23825089.95 0.2656 0.1393 *

Jupiter 60519-03-02 20:10 G 23825231.21 23825231.34 23825231.46 0.0537 0.0206

Jupiter 60519-05-31 04:48 G 23825320.67 23825320.70 23825320.73 0.0535 0.0515

Uranus 60519-11-21 17:31 G 23825495.20 23825495.23 23825495.27 0.0137 0.0132

Uranus 60520-02-17 20:53 G 23825583.30 23825583.37 23825583.46 0.0137 0.0112

Uranus 60520-05-16 00:29 G 23825671.42 23825671.52 23825671.63 0.0137 0.0091

Uranus 60520-08-12 04:05 G 23825759.55 23825759.67 23825759.79 0.0138 0.0070

Uranus 60520-11-08 07:26 G 23825847.69 23825847.81 23825847.94 0.0138 0.0050

Uranus 60521-02-04 11:02 G 23825935.83 23825935.96 23825936.09 0.0138 0.0030

Uranus 60521-05-03 14:24 G 23826023.97 23826024.10 23826024.24 0.0138 0.0010

Uranus 60521-07-30 17:46 G 23826112.11 23826112.24 23826112.38 0.0138 0.0012

Uranus 60521-10-26 21:22 G 23826200.26 23826200.39 23826200.52 0.0138 0.0031

Uranus 60522-01-23 00:43 G 23826288.40 23826288.53 23826288.65 0.0138 0.0051

Uranus 60522-04-21 04:05 G 23826376.56 23826376.67 23826376.79 0.0138 0.0071

Mars 60522-07-13 00:43 G 23826459.41 23826459.53 23826459.64 0.1644 0.0746

Uranus 60522-07-18 07:26 G 23826464.71 23826464.81 23826464.91 0.0138 0.0091

Uranus 60522-10-14 10:48 G 23826552.87 23826552.95 23826553.03 0.0138 0.0111

Saturn 60522-11-13 23:17 G 23826583.42 23826583.47 23826583.53 0.0276 0.0259

Uranus 60523-01-10 13:55 G 23826641.05 23826641.08 23826641.13 0.0138 0.0132

Saturn 60523-02-10 18:43 G 23826672.12 23826672.28 23826672.45 0.0275 0.0079

Saturn 60523-05-10 14:24 G 23826760.94 23826761.10 23826761.27 0.0275 0.0105

Jupiter 60525-04-14 06:29 G 23827465.69 23827465.77 23827465.86 0.0490 0.0418

Jupiter 60525-07-13 09:07 G 23827555.76 23827555.88 23827556.01 0.0493 0.0351

Earth 60529-04-13 10:05 G 23828925.81 23828925.92 23828926.02 0.2679 0.0749

Moon 60529-04-13 10:48 G 23828925.84 23828925.95 23828926.06 0.2678 0.0822 *

Jupiter 60530-12-19 23:02 G 23829541.37 23829541.46 23829541.55 0.0537 0.0398

Jupiter 60531-03-19 07:55 G 23829630.74 23829630.83 23829630.94 0.0535 0.0333

Earth 60531-10-15 10:48 G 23829840.80 23829840.95 23829841.09 0.2653 0.0562

Moon 60531-10-15 12:14 G 23829840.86 23829841.01 23829841.15 0.2651 0.0767 *

Mars 60531-12-03 10:19 G 23829889.80 23829889.93 23829890.06 0.1640 0.0091

Earth 60536-04-06 06:58 G 23831475.79 23831475.79 23831475.80 0.2683 0.2679

Jupiter 60537-05-01 08:10 G 23831865.67 23831865.84 23831866.01 0.0492 0.0158

Saturn 60538-03-10 07:26 G 23832178.79 23832178.81 23832178.84 0.0284 0.0278

Saturn 60538-06-06 20:10 G 23832267.22 23832267.34 23832267.47 0.0284 0.0121

Saturn 60538-09-03 08:53 G 23832355.73 23832355.87 23832356.00 0.0285 0.0036

Saturn 60538-11-30 21:07 G 23832444.28 23832444.38 23832444.48 0.0285 0.0190

Mars 60541-04-24 19:55 G 23833320.23 23833320.33 23833320.43 0.1637 0.0929

Earth 60542-04-16 04:19 G 23833676.60 23833676.68 23833676.76 0.2678 0.1911

Moon 60542-04-16 04:48 G 23833676.62 23833676.70 23833676.78 0.2673 0.1932 *

Jupiter 60543-01-05 11:31 G 23833940.85 23833940.98 23833941.11 0.0536 0.0153

Venus 60543-08-07 03:22 G 23834154.49 23834154.64 23834154.79 0.3689 0.0725

Mars 60545-12-26 01:12 G 23835026.55 23835026.55 23835026.56 0.1879 0.1874

Venus 60547-08-04 04:05 G 23835612.64 23835612.67 23835612.71 0.3683 0.3419

Jupiter 60549-02-17 06:29 G 23836175.59 23836175.77 23836175.95 0.0491 0.0042

Earth 60549-04-09 01:55 G 23836226.48 23836226.58 23836226.67 0.2681 0.1439

Moon 60549-04-09 02:10 G 23836226.49 23836226.59 23836226.68 0.2688 0.1351 *

Saturn 60552-06-29 19:55 G 23837404.17 23837404.33 23837404.49 0.0276 0.0116

Saturn 60552-09-26 15:36 G 23837492.98 23837493.15 23837493.32 0.0275 0.0067

Saturn 60552-12-24 11:31 G 23837581.91 23837581.98 23837582.05 0.0275 0.0251

Venus 60553-02-16 19:55 G 23837636.23 23837636.33 23837636.43 0.3682 0.0820

Jupiter 60554-10-24 14:53 G 23838250.99 23838251.12 23838251.25 0.0537 0.0029

Mars 60555-05-18 01:12 G 23838456.40 23838456.55 23838456.69 0.1884 0.0057

Venus 60558-09-02 11:31 G 23839659.89 23839659.98 23839660.07 0.3681 0.1755

Uranus 60560-09-09 21:07 G 23840398.29 23840398.38 23840398.49 0.0141 0.0118

Jupiter 60560-12-06 05:46 G 23840485.58 23840485.74 23840485.89 0.0490 0.0227

Uranus 60560-12-07 04:19 G 23840486.55 23840486.68 23840486.83 0.0140 0.0089

Uranus 60561-03-05 11:46 G 23840574.82 23840574.99 23840575.16 0.0140 0.0060

Uranus 60561-06-01 18:58 G 23840663.11 23840663.29 23840663.48 0.0140 0.0031

Uranus 60561-08-29 02:24 G 23840751.42 23840751.60 23840751.79 0.0140 0.0002

Uranus 60561-11-25 09:50 G 23840839.73 23840839.91 23840840.09 0.0140 0.0029

Mars 60562-01-11 00:43 G 23840886.42 23840886.53 23840886.64 0.1644 0.0875

Uranus 60562-02-21 17:02 G 23840928.05 23840928.21 23840928.39 0.0140 0.0058

Earth 60562-04-11 20:24 G 23840977.24 23840977.35 23840977.46 0.2680 0.0225

Moon 60562-04-11 21:07 G 23840977.27 23840977.38 23840977.49 0.2683 0.0208 *

Uranus 60562-05-21 00:29 G 23841016.38 23841016.52 23841016.67 0.0140 0.0088

Uranus 60562-08-17 07:41 G 23841104.74 23841104.82 23841104.94 0.0140 0.0118

Mars 60564-10-07 01:41 G 23841886.52 23841886.57 23841886.63 0.1888 0.1717

Earth 60564-10-12 12:43 G 23841891.90 23841892.03 23841892.17 0.2651 0.1125

Moon 60564-10-12 13:55 G 23841891.95 23841892.08 23841892.22 0.2655 0.1014 *

Jupiter 60566-08-12 18:43 G 23842561.16 23842561.28 23842561.40 0.0538 0.0203

Jupiter 60566-11-10 03:22 G 23842650.62 23842650.64 23842650.67 0.0535 0.0520

Saturn 60567-10-24 21:36 G 23842999.29 23842999.40 23842999.51 0.0283 0.0171

Saturn 60568-01-21 10:19 G 23843087.79 23843087.93 23843088.06 0.0284 0.0016

Saturn 60568-04-18 22:34 G 23843176.33 23843176.44 23843176.56 0.0284 0.0139

Mars 60571-06-03 10:34 G 23844316.81 23844316.94 23844317.06 0.1640 0.0075

Jupiter 60572-09-24 05:02 G 23844795.62 23844795.71 23844795.80 0.0490 0.0412

Jupiter 60572-12-23 07:26 G 23844885.69 23844885.81 23844885.93 0.0492 0.0356

Earth 60575-04-14 14:53 G 23845728.02 23845728.12 23845728.23 0.2679 0.0963

Moon 60575-04-14 15:36 G 23845728.05 23845728.15 23845728.26 0.2678 0.1076 *

Neptune 60575-10-07 10:05 G 23845903.88 23845903.92 23845903.97 0.0089 0.0084

Neptune 60576-01-03 11:31 G 23845991.91 23845991.98 23845992.06 0.0089 0.0075

Neptune 60576-03-31 12:58 G 23846079.96 23846080.04 23846080.14 0.0089 0.0067

Neptune 60576-06-27 14:24 G 23846168.01 23846168.10 23846168.21 0.0089 0.0059

Neptune 60576-09-23 15:50 G 23846256.06 23846256.16 23846256.28 0.0089 0.0052

Neptune 60576-12-20 17:31 G 23846344.12 23846344.23 23846344.36 0.0089 0.0043

Neptune 60577-03-18 18:58 G 23846432.17 23846432.29 23846432.42 0.0089 0.0035

Neptune 60577-06-14 20:24 G 23846520.23 23846520.35 23846520.49 0.0089 0.0027

Neptune 60577-09-10 22:05 G 23846608.29 23846608.42 23846608.55 0.0089 0.0019

Earth 60577-10-15 17:02 G 23846643.07 23846643.21 23846643.35 0.2653 0.0939

Moon 60577-10-15 18:29 G 23846643.13 23846643.27 23846643.41 0.2651 0.1058 *

Neptune 60577-12-07 23:31 G 23846696.35 23846696.48 23846696.62 0.0089 0.0011

Neptune 60578-03-06 00:58 G 23846784.41 23846784.54 23846784.68 0.0089 0.0003

Jupiter 60578-05-31 22:05 G 23846871.33 23846871.42 23846871.52 0.0538 0.0381

Neptune 60578-06-02 02:24 G 23846872.47 23846872.60 23846872.74 0.0089 0.0006

Neptune 60578-08-29 03:50 G 23846960.53 23846960.66 23846960.80 0.0089 0.0014

Jupiter 60578-08-29 07:26 G 23846960.71 23846960.81 23846960.90 0.0535 0.0351 *

Neptune 60578-11-25 05:17 G 23847048.59 23847048.72 23847048.86 0.0089 0.0022

Neptune 60579-02-21 06:43 G 23847136.66 23847136.78 23847136.91 0.0089 0.0029

Neptune 60579-05-20 08:10 G 23847224.72 23847224.84 23847224.97 0.0089 0.0037

Neptune 60579-08-16 09:36 G 23847312.79 23847312.90 23847313.02 0.0089 0.0045

Neptune 60579-11-12 10:48 G 23847400.86 23847400.95 23847401.07 0.0089 0.0054

Neptune 60580-02-08 12:14 G 23847488.93 23847489.01 23847489.12 0.0089 0.0061

Neptune 60580-05-06 13:55 G 23847577.00 23847577.08 23847577.17 0.0089 0.0069

Neptune 60580-08-02 15:22 G 23847665.07 23847665.14 23847665.21 0.0089 0.0076

Mars 60580-10-23 19:55 G 23847747.22 23847747.33 23847747.45 0.1637 0.0794

Neptune 60580-10-29 16:34 G 23847753.16 23847753.19 23847753.24 0.0089 0.0084

Saturn 60581-11-16 17:02 G 23848136.09 23848136.21 23848136.33 0.0276 0.0192

Saturn 60582-02-13 12:29 G 23848224.85 23848225.02 23848225.20 0.0275 0.0012

Moon 60582-04-07 11:46 G 23848277.95 23848277.99 23848278.04 0.2689 0.2432

Earth 60582-04-07 12:00 G 23848277.96 23848278.00 23848278.05 0.2682 0.2441 *

Saturn 60582-05-13 08:24 G 23848313.71 23848313.85 23848313.99 0.0275 0.0173

Jupiter 60584-10-11 06:43 G 23849195.61 23849195.78 23849195.94 0.0492 0.0168

Earth 60588-04-16 09:22 G 23850478.82 23850478.89 23850478.95 0.2678 0.2131

Moon 60588-04-16 09:36 G 23850478.84 23850478.90 23850478.96 0.2672 0.2163 *

Mars 60590-03-16 05:31 G 23851177.73 23851177.73 23851177.73 0.1634 0.1634

Jupiter 60590-06-17 10:34 G 23851270.82 23851270.94 23851271.07 0.0536 0.0168

Pluto 60593-09-03 17:46 G 23852445.24 23852445.24 23852445.29 0.0078 0.0077

Pluto 60593-11-30 19:55 G 23852533.23 23852533.33 23852533.47 0.0078 0.0056

Pluto 60594-02-26 22:34 G 23852621.28 23852621.44 23852621.60 0.0078 0.0034

Pluto 60594-05-26 00:29 G 23852709.35 23852709.52 23852709.70 0.0077 0.0013

Pluto 60594-08-22 02:38 G 23852797.44 23852797.61 23852797.79 0.0077 0.0008

Mars 60594-11-16 01:41 G 23852883.42 23852883.57 23852883.72 0.1884 0.0257

Pluto 60594-11-18 04:34 G 23852885.53 23852885.69 23852885.86 0.0077 0.0029

Pluto 60595-02-14 06:29 G 23852973.65 23852973.77 23852973.92 0.0077 0.0050

Earth 60595-04-10 06:43 G 23853028.68 23853028.78 23853028.88 0.2681 0.1207

Moon 60595-04-10 06:58 G 23853028.69 23853028.79 23853028.89 0.2688 0.1251 *

Pluto 60595-05-13 08:24 G 23853061.80 23853061.85 23853061.94 0.0077 0.0071

Jupiter 60596-07-30 05:46 G 23853505.56 23853505.74 23853505.92 0.0491 0.0021

Saturn 60597-03-12 22:48 G 23853731.37 23853731.45 23853731.54 0.0284 0.0223

Saturn 60597-06-09 11:31 G 23853819.85 23853819.98 23853820.12 0.0284 0.0067

Saturn 60597-09-06 00:00 G 23853908.38 23853908.50 23853908.64 0.0285 0.0090

Saturn 60597-12-03 12:29 G 23853996.95 23853997.02 23853997.09 0.0285 0.0243

Venus 60600-03-14 04:48 G 23854827.64 23854827.70 23854827.77 0.3689 0.3331

Mars 60601-07-13 00:43 G 23855313.43 23855313.53 23855313.63 0.1643 0.1008

Jupiter 60602-04-06 13:55 G 23855580.95 23855581.08 23855581.21 0.0536 0.0016

Uranus 60603-12-13 00:14 G 23856196.47 23856196.51 23856196.57 0.0137 0.0128

Uranus 60604-03-10 04:05 G 23856284.58 23856284.67 23856284.75 0.0137 0.0107

Venus 60604-03-11 01:41 G 23856285.49 23856285.57 23856285.64 0.3682 0.2445

Mars 60604-04-08 01:55 G 23856313.50 23856313.58 23856313.66 0.1888 0.1539

Uranus 60604-06-06 07:26 G 23856372.71 23856372.81 23856372.92 0.0137 0.0086

Uranus 60604-09-02 11:02 G 23856460.84 23856460.96 23856461.08 0.0138 0.0066

Uranus 60604-11-29 14:24 G 23856548.98 23856549.10 23856549.23 0.0138 0.0046

Uranus 60605-02-25 18:00 G 23856637.11 23856637.25 23856637.38 0.0138 0.0026

Uranus 60605-05-24 21:22 G 23856725.26 23856725.39 23856725.53 0.0138 0.0005

Uranus 60605-08-21 00:43 G 23856813.40 23856813.53 23856813.67 0.0138 0.0015

Uranus 60605-11-17 04:19 G 23856901.55 23856901.68 23856901.81 0.0138 0.0035

Uranus 60606-02-13 07:41 G 23856989.70 23856989.82 23856989.94 0.0138 0.0055

Uranus 60606-05-12 11:02 G 23857077.85 23857077.96 23857078.07 0.0138 0.0075

Uranus 60606-08-08 14:24 G 23857166.00 23857166.10 23857166.20 0.0138 0.0095

Uranus 60606-11-04 17:46 G 23857254.17 23857254.24 23857254.31 0.0138 0.0115

Uranus 60607-01-31 20:53 G 23857342.36 23857342.37 23857342.41 0.0138 0.0136

Earth 60608-04-13 01:26 G 23857779.44 23857779.56 23857779.67 0.2680 0.0086

Moon 60608-04-13 02:10 G 23857779.47 23857779.59 23857779.70 0.2682 0.0173 *

Jupiter 60608-05-19 04:19 G 23857815.53 23857815.68 23857815.84 0.0490 0.0215

Venus 60609-09-24 17:17 G 23858309.12 23858309.22 23858309.33 0.3682 0.0165

Earth 60610-10-14 18:58 G 23858694.15 23858694.29 23858694.43 0.2652 0.0757

Moon 60610-10-14 20:24 G 23858694.20 23858694.35 23858694.49 0.2653 0.0567 *

Mars 60610-12-03 10:34 G 23858743.81 23858743.94 23858744.06 0.1640 0.0183

Saturn 60611-04-06 17:31 G 23858868.15 23858868.23 23858868.33 0.0276 0.0235

Saturn 60611-07-04 13:12 G 23858956.88 23858957.05 23858957.23 0.0276 0.0053

Saturn 60611-10-01 08:53 G 23859045.72 23859045.87 23859046.03 0.0275 0.0132

Jupiter 60614-01-23 17:02 G 23859891.09 23859891.21 23859891.33 0.0538 0.0202

Jupiter 60614-04-23 01:55 G 23859980.56 23859980.58 23859980.61 0.0535 0.0521

Venus 60615-04-10 08:53 G 23860332.81 23860332.87 23860332.94 0.3681 0.2714

Jupiter 60620-03-07 03:50 G 23862125.56 23862125.66 23862125.76 0.0490 0.0396

Mars 60620-04-24 20:10 G 23862174.22 23862174.34 23862174.46 0.1637 0.0656

Jupiter 60620-06-05 06:14 G 23862215.65 23862215.76 23862215.88 0.0492 0.0369

Earth 60621-04-15 19:55 G 23862530.22 23862530.33 23862530.43 0.2679 0.1192

Moon 60621-04-15 20:38 G 23862530.26 23862530.36 23862530.46 0.2677 0.1236 *

Earth 60623-10-17 23:17 G 23863445.34 23863445.47 23863445.60 0.2653 0.1328

Moon 60623-10-18 00:58 G 23863445.41 23863445.54 23863445.66 0.2651 0.1499 *

Jupiter 60625-11-11 20:38 G 23864201.27 23864201.36 23864201.46 0.0538 0.0379

Jupiter 60626-02-09 06:00 G 23864290.65 23864290.75 23864290.85 0.0536 0.0355

Saturn 60626-08-01 00:29 G 23864463.49 23864463.52 23864463.57 0.0283 0.0270

Saturn 60626-10-28 13:12 G 23864551.93 23864552.05 23864552.18 0.0283 0.0114

Saturn 60627-01-25 01:55 G 23864640.44 23864640.58 23864640.71 0.0284 0.0041

Saturn 60627-04-23 14:10 G 23864729.00 23864729.09 23864729.19 0.0284 0.0194

Moon 60628-04-08 17:02 G 23865080.15 23865080.21 23865080.27 0.2689 0.2257

Earth 60628-04-08 17:02 G 23865080.15 23865080.21 23865080.27 0.2682 0.2205 *

Mars 60629-09-15 05:46 G 23865604.69 23865604.74 23865604.79 0.1634 0.1496

Jupiter 60632-03-24 05:02 G 23866525.55 23866525.71 23866525.88 0.0492 0.0176

Earth 60634-04-18 14:10 G 23867281.04 23867281.09 23867281.14 0.2677 0.2345

Moon 60634-04-18 14:24 G 23867281.05 23867281.10 23867281.15 0.2671 0.2382 *

Mars 60634-05-18 02:10 G 23867310.44 23867310.59 23867310.73 0.1883 0.0461

Jupiter 60637-11-28 09:50 G 23868600.79 23868600.91 23868601.03 0.0536 0.0185

Saturn 60640-11-20 10:05 G 23869688.77 23869688.92 23869689.08 0.0276 0.0130

Mars 60641-01-11 00:58 G 23869740.45 23869740.54 23869740.63 0.1644 0.1141

Saturn 60641-02-17 05:46 G 23869777.57 23869777.74 23869777.92 0.0275 0.0053

Earth 60641-04-11 11:46 G 23869830.88 23869830.99 23869831.10 0.2681 0.0975

Moon 60641-04-11 12:00 G 23869830.90 23869831.00 23869831.11 0.2687 0.0885 *

Saturn 60641-05-17 01:41 G 23869866.49 23869866.57 23869866.66 0.0275 0.0237

Mars 60643-10-08 02:10 G 23870740.49 23870740.59 23870740.69 0.1888 0.1343

Earth 60643-10-12 21:22 G 23870745.33 23870745.39 23870745.45 0.2650 0.2397

Moon 60643-10-12 22:05 G 23870745.34 23870745.42 23870745.50 0.2656 0.2216 *

Jupiter 60644-01-11 04:19 G 23870835.51 23870835.68 23870835.86 0.0491 0.0011

Uranus 60644-07-04 20:38 G 23871011.36 23871011.36 23871011.39 0.0141 0.0140

Uranus 60644-10-01 04:05 G 23871099.56 23871099.67 23871099.78 0.0141 0.0111

Uranus 60644-12-28 11:17 G 23871187.82 23871187.97 23871188.12 0.0140 0.0082

Uranus 60645-03-26 18:29 G 23871276.11 23871276.27 23871276.45 0.0140 0.0053

Uranus 60645-06-23 01:55 G 23871364.40 23871364.58 23871364.76 0.0140 0.0023

Uranus 60645-09-19 09:22 G 23871452.70 23871452.89 23871453.07 0.0140 0.0006

Uranus 60645-12-16 16:34 G 23871541.01 23871541.19 23871541.37 0.0140 0.0036

Uranus 60646-03-15 00:00 G 23871629.34 23871629.50 23871629.67 0.0140 0.0065

Uranus 60646-06-11 07:12 G 23871717.67 23871717.80 23871717.95 0.0140 0.0095

Uranus 60646-09-07 14:53 G 23871806.04 23871806.12 23871806.21 0.0140 0.0124

Jupiter 60649-09-16 13:12 G 23872910.91 23872911.05 23872911.18 0.0536 0.0015

Mars 60650-06-03 10:34 G 23873170.82 23873170.94 23873171.07 0.1640 0.0314

Venus 60651-04-04 23:17 G 23873476.34 23873476.47 23873476.60 0.3689 0.1745

Earth 60654-04-14 06:14 G 23874581.65 23874581.76 23874581.87 0.2680 0.0232

Moon 60654-04-14 06:58 G 23874581.68 23874581.79 23874581.91 0.2681 0.0267 *

Jupiter 60655-10-30 03:36 G 23875145.49 23875145.65 23875145.81 0.0491 0.0195

Saturn 60656-03-16 14:24 G 23875283.99 23875284.10 23875284.21 0.0284 0.0168

Saturn 60656-06-13 03:07 G 23875372.49 23875372.63 23875372.76 0.0284 0.0016

Saturn 60656-09-09 15:22 G 23875461.03 23875461.14 23875461.26 0.0285 0.0142

Earth 60656-10-15 01:12 G 23875496.40 23875496.55 23875496.70 0.2652 0.0386

Moon 60656-10-15 02:38 G 23875496.46 23875496.61 23875496.76 0.2652 0.0322 *

Neptune 60659-09-06 15:22 G 23876553.07 23876553.14 23876553.23 0.0088 0.0080

Mars 60659-10-24 20:10 G 23876601.22 23876601.34 23876601.46 0.1637 0.0523

Neptune 60659-12-03 18:29 G 23876641.17 23876641.27 23876641.39 0.0088 0.0069

Neptune 60660-02-29 21:36 G 23876729.27 23876729.40 23876729.55 0.0088 0.0059

Neptune 60660-05-28 00:58 G 23876817.39 23876817.54 23876817.69 0.0088 0.0049

Neptune 60660-08-24 04:05 G 23876905.51 23876905.67 23876905.84 0.0088 0.0038

Venus 60660-10-15 23:02 G 23876958.37 23876958.46 23876958.56 0.3682 0.1465

Neptune 60660-11-20 06:58 G 23876993.63 23876993.79 23876993.98 0.0088 0.0029

Neptune 60661-02-16 10:19 G 23877081.75 23877081.93 23877082.12 0.0088 0.0018

Neptune 60661-05-15 13:41 G 23877169.88 23877170.07 23877170.25 0.0088 0.0007

Jupiter 60661-07-05 16:19 G 23877221.06 23877221.18 23877221.31 0.0537 0.0184

Neptune 60661-08-11 16:48 G 23877258.01 23877258.20 23877258.39 0.0088 0.0003

Neptune 60661-11-07 19:55 G 23877346.15 23877346.33 23877346.52 0.0088 0.0014

Neptune 60662-02-03 23:02 G 23877434.29 23877434.46 23877434.65 0.0088 0.0025

Neptune 60662-05-03 02:10 G 23877522.43 23877522.59 23877522.77 0.0088 0.0035

Neptune 60662-07-30 05:31 G 23877610.58 23877610.73 23877610.90 0.0088 0.0046

Neptune 60662-10-26 08:38 G 23877698.73 23877698.86 23877699.01 0.0088 0.0056

Neptune 60663-01-22 11:46 G 23877786.89 23877786.99 23877787.13 0.0088 0.0067

Neptune 60663-04-20 15:22 G 23877875.06 23877875.14 23877875.23 0.0088 0.0078

Neptune 60663-07-17 18:43 G 23877963.28 23877963.28 23877963.28 0.0088 0.0088

Venus 60666-05-01 14:53 G 23878982.02 23878982.12 23878982.21 0.3681 0.1134

Earth 60667-04-17 00:43 G 23879332.43 23879332.53 23879332.62 0.2679 0.1406

Moon 60667-04-17 01:12 G 23879332.46 23879332.55 23879332.65 0.2675 0.1532 *

Jupiter 60667-08-18 02:38 G 23879455.51 23879455.61 23879455.72 0.0490 0.0383

Jupiter 60667-11-16 05:02 G 23879545.61 23879545.71 23879545.82 0.0492 0.0384

Mars 60669-03-16 05:46 G 23880031.67 23880031.74 23880031.81 0.1634 0.1361

Earth 60669-10-18 05:31 G 23880247.62 23880247.73 23880247.85 0.2653 0.1705

Moon 60669-10-18 06:58 G 23880247.68 23880247.79 23880247.90 0.2651 0.1851 *

Saturn 60670-04-09 10:48 G 23880420.81 23880420.95 23880421.08 0.0276 0.0173

Saturn 60670-07-07 06:14 G 23880509.59 23880509.76 23880509.94 0.0276 0.0012

Saturn 60670-10-04 02:10 G 23880598.47 23880598.59 23880598.72 0.0275 0.0194

Venus 60671-11-15 06:29 G 23881005.76 23881005.77 23881005.77 0.3681 0.3663

Jupiter 60673-04-23 19:12 G 23881531.21 23881531.30 23881531.39 0.0538 0.0378

Jupiter 60673-07-22 04:34 G 23881620.59 23881620.69 23881620.78 0.0536 0.0357

Mars 60673-11-16 02:10 G 23881737.45 23881737.59 23881737.73 0.1884 0.0640

Moon 60674-04-09 21:50 G 23881882.34 23881882.41 23881882.49 0.2689 0.1975

Earth 60674-04-09 22:05 G 23881882.34 23881882.42 23881882.49 0.2682 0.1976 *

Jupiter 60679-09-04 04:05 G 23883855.51 23883855.67 23883855.83 0.0491 0.0192

Earth 60680-04-18 18:58 G 23884083.26 23884083.29 23884083.32 0.2677 0.2561

Moon 60680-04-18 19:12 G 23884083.27 23884083.30 23884083.33 0.2671 0.2546 *

Mars 60680-07-12 00:58 G 23884167.46 23884167.54 23884167.62 0.1644 0.1269

Mars 60683-04-08 02:38 G 23885167.50 23885167.61 23885167.73 0.1888 0.1126

Jupiter 60685-05-10 08:24 G 23885930.73 23885930.85 23885930.97 0.0537 0.0188

Saturn 60685-08-03 16:19 G 23886016.10 23886016.18 23886016.28 0.0283 0.0212

Saturn 60685-10-31 05:02 G 23886104.58 23886104.71 23886104.85 0.0283 0.0057

Saturn 60686-01-27 17:31 G 23886193.10 23886193.23 23886193.36 0.0284 0.0097

Saturn 60686-04-26 05:46 G 23886281.68 23886281.74 23886281.81 0.0284 0.0249

Earth 60687-04-12 16:34 G 23886633.09 23886633.19 23886633.30 0.2681 0.0755

Moon 60687-04-12 17:17 G 23886633.11 23886633.22 23886633.33 0.2685 0.0731 *

Uranus 60688-01-02 07:12 G 23886897.75 23886897.80 23886897.87 0.0137 0.0123

Uranus 60688-03-30 10:48 G 23886985.86 23886985.95 23886986.04 0.0137 0.0103

Uranus 60688-06-26 14:10 G 23887073.99 23887074.09 23887074.21 0.0137 0.0083

Uranus 60688-09-22 17:46 G 23887162.12 23887162.24 23887162.37 0.0138 0.0062

Uranus 60688-12-19 21:22 G 23887250.26 23887250.39 23887250.52 0.0138 0.0042

Uranus 60689-03-18 00:43 G 23887338.40 23887338.53 23887338.67 0.0138 0.0022

Uranus 60689-06-14 04:19 G 23887426.54 23887426.68 23887426.81 0.0138 0.0004

Uranus 60689-09-10 07:41 G 23887514.68 23887514.82 23887514.95 0.0138 0.0019

Earth 60689-10-13 03:22 G 23887547.55 23887547.64 23887547.73 0.2650 0.2039

Moon 60689-10-13 04:19 G 23887547.59 23887547.68 23887547.78 0.2655 0.2037 *

Mars 60689-12-02 10:48 G 23887597.82 23887597.95 23887598.07 0.1640 0.0450

Uranus 60689-12-07 11:02 G 23887602.83 23887602.96 23887603.09 0.0138 0.0039

Uranus 60690-03-05 14:24 G 23887690.98 23887691.10 23887691.23 0.0138 0.0059

Uranus 60690-06-01 17:46 G 23887779.14 23887779.24 23887779.35 0.0138 0.0080

Uranus 60690-08-28 21:07 G 23887867.29 23887867.38 23887867.48 0.0138 0.0100

Uranus 60690-11-25 00:29 G 23887955.46 23887955.52 23887955.59 0.0138 0.0120

Jupiter 60691-06-23 02:53 G 23888165.45 23888165.62 23888165.80 0.0491 0.0007

Jupiter 60697-02-26 12:14 G 23890240.88 23890241.01 23890241.14 0.0537 0.0016

Mars 60699-04-24 20:24 G 23891028.22 23891028.35 23891028.47 0.1637 0.0384

Saturn 60699-08-27 07:55 G 23891152.75 23891152.83 23891152.90 0.0276 0.0249

Saturn 60699-11-24 03:22 G 23891241.47 23891241.64 23891241.81 0.0276 0.0068

Saturn 60700-02-20 23:02 G 23891330.30 23891330.46 23891330.62 0.0275 0.0115

Earth 60700-04-15 11:17 G 23891383.86 23891383.97 23891384.08 0.2680 0.0456

Moon 60700-04-15 12:00 G 23891383.89 23891384.00 23891384.11 0.2681 0.0612 *

Earth 60702-10-17 07:26 G 23892298.66 23892298.81 23892298.96 0.2652 0.0020

Moon 60702-10-17 08:53 G 23892298.72 23892298.87 23892299.02 0.2652 0.0253 *

Jupiter 60703-04-12 02:24 G 23892475.44 23892475.60 23892475.76 0.0491 0.0183

Venus 60707-11-11 00:43 G 23894149.39 23894149.53 23894149.68 0.3689 0.0833

Mars 60708-09-15 06:00 G 23894458.66 23894458.75 23894458.83 0.1634 0.1224

Jupiter 60708-12-16 15:22 G 23894551.02 23894551.14 23894551.27 0.0537 0.0170

Venus 60711-11-08 04:48 G 23895607.65 23895607.70 23895607.75 0.3682 0.3099

Earth 60713-04-18 05:46 G 23896134.65 23896134.74 23896134.82 0.2678 0.1634

Moon 60713-04-18 06:14 G 23896134.67 23896134.76 23896134.85 0.2673 0.1621 *

Mars 60713-05-18 02:38 G 23896164.48 23896164.61 23896164.74 0.1883 0.0851

Saturn 60714-12-22 17:17 G 23896748.18 23896748.22 23896748.27 0.0283 0.0268

Jupiter 60715-01-29 01:41 G 23896785.46 23896785.57 23896785.69 0.0490 0.0366

Saturn 60715-03-21 06:00 G 23896836.63 23896836.75 23896836.88 0.0284 0.0112

Jupiter 60715-04-29 04:05 G 23896875.58 23896875.67 23896875.78 0.0492 0.0403

Saturn 60715-06-17 18:29 G 23896925.14 23896925.27 23896925.41 0.0284 0.0043

Saturn 60715-09-14 06:58 G 23897013.69 23897013.79 23897013.89 0.0285 0.0196

Earth 60715-10-20 12:00 G 23897049.91 23897050.00 23897050.09 0.2653 0.2095

Moon 60715-10-20 13:12 G 23897049.96 23897050.05 23897050.13 0.2650 0.2166 *

Venus 60717-05-23 20:38 G 23897631.25 23897631.36 23897631.46 0.3682 0.0508

Mars 60720-01-12 00:58 G 23898594.48 23898594.54 23898594.61 0.1643 0.1403

Moon 60720-04-11 02:53 G 23898684.54 23898684.62 23898684.71 0.2689 0.1748

Earth 60720-04-11 02:53 G 23898684.54 23898684.62 23898684.71 0.2682 0.1743 *

Jupiter 60720-10-04 18:29 G 23898861.18 23898861.27 23898861.37 0.0538 0.0357

Jupiter 60721-01-02 03:50 G 23898950.56 23898950.66 23898950.75 0.0535 0.0375

Mars 60722-10-08 02:53 G 23899594.49 23899594.62 23899594.75 0.1888 0.0948

Venus 60722-12-07 12:14 G 23899654.93 23899655.01 23899655.09 0.3681 0.2087

Jupiter 60727-02-15 02:53 G 23901185.46 23901185.62 23901185.78 0.0491 0.0207

Uranus 60728-07-26 03:22 G 23901712.60 23901712.64 23901712.71 0.0141 0.0134

Uranus 60728-10-22 10:34 G 23901800.83 23901800.94 23901801.07 0.0141 0.0105

Uranus 60729-01-18 18:00 G 23901889.10 23901889.25 23901889.41 0.0140 0.0076

Saturn 60729-04-13 03:36 G 23901973.49 23901973.65 23901973.81 0.0276 0.0114

Uranus 60729-04-17 01:12 G 23901977.38 23901977.55 23901977.73 0.0140 0.0047

Mars 60729-06-03 10:48 G 23902024.83 23902024.95 23902025.07 0.1640 0.0577

Saturn 60729-07-10 23:17 G 23902062.30 23902062.47 23902062.64 0.0276 0.0069

Uranus 60729-07-14 08:38 G 23902065.67 23902065.86 23902066.04 0.0140 0.0017

Saturn 60729-10-07 19:12 G 23902151.24 23902151.30 23902151.37 0.0275 0.0255

Uranus 60729-10-10 15:50 G 23902153.98 23902154.16 23902154.35 0.0140 0.0012

Uranus 60730-01-06 23:17 G 23902242.29 23902242.47 23902242.65 0.0140 0.0042

Uranus 60730-04-05 06:29 G 23902330.62 23902330.77 23902330.94 0.0140 0.0071

Uranus 60730-07-02 13:55 G 23902418.96 23902419.08 23902419.22 0.0140 0.0101

Uranus 60730-09-28 21:36 G 23902507.33 23902507.40 23902507.46 0.0140 0.0130

Jupiter 60732-10-21 06:43 G 23903260.66 23903260.78 23903260.91 0.0537 0.0189

Earth 60733-04-13 21:36 G 23903435.29 23903435.40 23903435.51 0.2681 0.0520

Moon 60733-04-13 22:19 G 23903435.31 23903435.43 23903435.54 0.2685 0.0438 *

Earth 60735-10-15 09:36 G 23904349.79 23904349.90 23904350.01 0.2651 0.1675

Moon 60735-10-15 10:48 G 23904349.83 23904349.95 23904350.07 0.2654 0.1473 *

Mars 60738-10-24 20:24 G 23905455.23 23905455.35 23905455.48 0.1637 0.0252

Jupiter 60738-12-04 01:55 G 23905495.41 23905495.58 23905495.76 0.0491 0.0022

Neptune 60740-04-08 08:10 G 23905986.82 23905986.84 23905986.88 0.0089 0.0087

Neptune 60740-07-05 09:36 G 23906074.85 23906074.90 23906074.98 0.0089 0.0079

Neptune 60740-10-01 11:31 G 23906162.90 23906162.98 23906163.06 0.0089 0.0071

Neptune 60740-12-28 12:58 G 23906250.94 23906251.04 23906251.14 0.0089 0.0062

Neptune 60741-03-26 14:24 G 23906339.00 23906339.10 23906339.21 0.0089 0.0054

Neptune 60741-06-22 15:50 G 23906427.05 23906427.16 23906427.28 0.0089 0.0046

Neptune 60741-09-18 17:17 G 23906515.10 23906515.22 23906515.35 0.0089 0.0039

Neptune 60741-12-15 18:58 G 23906603.16 23906603.29 23906603.42 0.0089 0.0030

Neptune 60742-03-13 20:24 G 23906691.22 23906691.35 23906691.49 0.0089 0.0022

Neptune 60742-06-09 21:50 G 23906779.28 23906779.41 23906779.55 0.0089 0.0014

Neptune 60742-09-05 23:31 G 23906867.34 23906867.48 23906867.61 0.0089 0.0007

Neptune 60742-12-03 00:58 G 23906955.40 23906955.54 23906955.67 0.0089 0.0003

Neptune 60743-03-01 02:24 G 23907043.46 23907043.60 23907043.73 0.0089 0.0010

Neptune 60743-05-28 03:36 G 23907131.52 23907131.65 23907131.79 0.0089 0.0019

Neptune 60743-08-24 05:02 G 23907219.59 23907219.71 23907219.85 0.0089 0.0026

Neptune 60743-11-20 06:29 G 23907307.65 23907307.77 23907307.90 0.0089 0.0034

Neptune 60744-02-16 07:55 G 23907395.72 23907395.83 23907395.96 0.0089 0.0042

Neptune 60744-05-14 09:22 G 23907483.79 23907483.89 23907484.01 0.0089 0.0050

Saturn 60744-08-07 08:24 G 23907568.73 23907568.85 23907568.96 0.0282 0.0152

Jupiter 60744-08-09 10:34 G 23907570.81 23907570.94 23907571.07 0.0537 0.0017

Neptune 60744-08-10 10:34 G 23907571.85 23907571.94 23907572.06 0.0089 0.0059

Saturn 60744-11-03 20:53 G 23907657.23 23907657.37 23907657.51 0.0283 0.0003

Neptune 60744-11-06 12:14 G 23907659.93 23907660.01 23907660.11 0.0089 0.0066

Saturn 60745-01-31 09:07 G 23907745.77 23907745.88 23907746.00 0.0284 0.0155

Neptune 60745-02-02 13:41 G 23907748.00 23907748.07 23907748.15 0.0089 0.0073

Neptune 60745-05-01 14:53 G 23907836.08 23907836.12 23907836.19 0.0089 0.0082

Neptune 60745-07-28 16:34 G 23907924.19 23907924.19 23907924.20 0.0089 0.0089

Earth 60746-04-16 16:05 G 23908186.06 23908186.17 23908186.28 0.2679 0.0678

Moon 60746-04-16 16:48 G 23908186.09 23908186.20 23908186.31 0.2680 0.0708 *

Mars 60748-03-16 06:00 G 23908885.66 23908885.75 23908885.85 0.1634 0.1084

Earth 60748-10-17 13:41 G 23909100.92 23909101.07 23909101.22 0.2652 0.0360

Moon 60748-10-17 15:22 G 23909100.99 23909101.14 23909101.28 0.2652 0.0425 *

Jupiter 60750-09-22 00:58 G 23909805.37 23909805.54 23909805.70 0.0490 0.0174

Mars 60752-11-16 03:07 G 23910591.51 23910591.63 23910591.76 0.1883 0.1067

Pluto 60753-10-01 05:02 G 23910910.69 23910910.71 23910910.77 0.0066 0.0063

Pluto 60753-12-28 05:46 G 23910998.67 23910998.74 23910998.84 0.0066 0.0052

Pluto 60754-03-26 06:29 G 23911086.67 23911086.77 23911086.89 0.0066 0.0042

Pluto 60754-06-22 07:12 G 23911174.68 23911174.80 23911174.93 0.0066 0.0031

Pluto 60754-09-18 07:41 G 23911262.70 23911262.82 23911262.97 0.0066 0.0021

Pluto 60754-12-15 08:24 G 23911350.72 23911350.85 23911351.00 0.0066 0.0010

Pluto 60755-03-13 09:07 G 23911438.74 23911438.88 23911439.03 0.0067 0.0003

Pluto 60755-06-09 09:50 G 23911526.77 23911526.91 23911527.05 0.0067 0.0013

Pluto 60755-09-05 10:19 G 23911614.80 23911614.93 23911615.07 0.0067 0.0024

Pluto 60755-12-02 10:48 G 23911702.84 23911702.95 23911703.09 0.0067 0.0035

Pluto 60756-02-28 11:31 G 23911790.89 23911790.98 23911791.09 0.0067 0.0046

Pluto 60756-05-26 12:00 G 23911878.94 23911879.00 23911879.09 0.0067 0.0057

Jupiter 60756-05-28 14:24 G 23911880.97 23911881.10 23911881.22 0.0538 0.0158

Saturn 60758-08-31 00:58 G 23912705.42 23912705.54 23912705.67 0.0276 0.0186

Saturn 60758-11-27 20:38 G 23912794.18 23912794.36 23912794.54 0.0276 0.0004

Saturn 60759-02-24 16:19 G 23912883.05 23912883.18 23912883.32 0.0275 0.0180

Earth 60759-04-19 10:34 G 23912936.86 23912936.94 23912937.02 0.2678 0.1846

Moon 60759-04-19 11:02 G 23912936.89 23912936.96 23912937.04 0.2673 0.1964 *

Mars 60759-07-13 01:12 G 23913021.51 23913021.55 23913021.59 0.1644 0.1534

Earth 60761-10-20 18:14 G 23913852.21 23913852.26 23913852.31 0.2654 0.2473

Moon 60761-10-20 19:12 G 23913852.29 23913852.30 23913852.31 0.2648 0.2640 *

Mars 60762-04-08 03:22 G 23914021.50 23914021.64 23914021.77 0.1888 0.0747

Jupiter 60762-07-11 00:14 G 23914115.40 23914115.51 23914115.64 0.0490 0.0355

Jupiter 60762-10-09 02:53 G 23914205.52 23914205.62 23914205.71 0.0492 0.0413

Venus 60764-06-17 02:10 G 23914822.54 23914822.59 23914822.65 0.3689 0.3418

Earth 60766-04-12 07:55 G 23915486.73 23915486.83 23915486.92 0.2682 0.1510

Moon 60766-04-12 07:55 G 23915486.74 23915486.83 23915486.93 0.2688 0.1525 *

Jupiter 60768-03-16 17:31 G 23916191.13 23916191.23 23916191.33 0.0538 0.0344

Venus 60768-06-14 02:10 G 23916280.51 23916280.59 23916280.68 0.3682 0.2120

Jupiter 60768-06-14 02:38 G 23916280.53 23916280.61 23916280.70 0.0536 0.0388 *

Mars 60768-12-02 10:48 G 23916451.84 23916451.95 23916452.07 0.1640 0.0712

Uranus 60772-01-23 14:10 G 23917599.03 23917599.09 23917599.16 0.0137 0.0119

Uranus 60772-04-20 17:46 G 23917687.15 23917687.24 23917687.34 0.0137 0.0098

Uranus 60772-07-17 21:22 G 23917775.28 23917775.39 23917775.50 0.0137 0.0078

Uranus 60772-10-14 00:43 G 23917863.41 23917863.53 23917863.66 0.0138 0.0058

Uranus 60773-01-10 04:05 G 23917951.55 23917951.67 23917951.81 0.0138 0.0038

Uranus 60773-04-08 07:41 G 23918039.69 23918039.82 23918039.96 0.0138 0.0017

Uranus 60773-07-05 11:17 G 23918127.83 23918127.97 23918128.10 0.0138 0.0005

Uranus 60773-10-01 14:38 G 23918215.98 23918216.11 23918216.24 0.0138 0.0023

Saturn 60773-12-25 09:07 G 23918300.79 23918300.88 23918300.98 0.0283 0.0209

Uranus 60773-12-28 18:00 G 23918304.12 23918304.25 23918304.38 0.0138 0.0044

Venus 60773-12-28 18:00 G 23918304.15 23918304.25 23918304.35 0.3682 0.0485 *

Saturn 60774-03-23 21:50 G 23918389.28 23918389.41 23918389.55 0.0284 0.0054

Uranus 60774-03-26 21:22 G 23918392.27 23918392.39 23918392.51 0.0138 0.0064

Saturn 60774-06-20 10:19 G 23918477.80 23918477.93 23918478.06 0.0284 0.0100

Uranus 60774-06-23 00:43 G 23918480.43 23918480.53 23918480.64 0.0138 0.0084

Jupiter 60774-07-28 01:55 G 23918515.42 23918515.58 23918515.73 0.0492 0.0223

Saturn 60774-09-16 22:34 G 23918566.39 23918566.44 23918566.51 0.0285 0.0253

Uranus 60774-09-19 04:05 G 23918568.59 23918568.67 23918568.76 0.0138 0.0104

Uranus 60774-12-16 07:26 G 23918656.76 23918656.81 23918656.87 0.0138 0.0124

Mars 60778-04-24 20:38 G 23919882.23 23919882.36 23919882.48 0.1637 0.0131

Earth 60779-04-15 02:24 G 23920237.49 23920237.60 23920237.72 0.2681 0.0313

Moon 60779-04-15 03:07 G 23920237.52 23920237.63 23920237.75 0.2684 0.0233 *

Venus 60779-07-14 09:36 G 23920327.85 23920327.90 23920327.96 0.3681 0.3040

Jupiter 60780-01-03 20:38 G 23920501.35 23920501.36 23920501.37 0.0539 0.0534

Jupiter 60780-04-02 06:14 G 23920590.64 23920590.76 23920590.88 0.0536 0.0208

Earth 60781-10-15 15:50 G 23921152.03 23921152.16 23921152.29 0.2651 0.1312

Moon 60781-10-15 17:17 G 23921152.09 23921152.22 23921152.35 0.2653 0.1231 *

Jupiter 60786-05-16 00:43 G 23922825.36 23922825.53 23922825.71 0.0491 0.0033

Mars 60787-09-15 06:14 G 23923312.65 23923312.76 23923312.86 0.1634 0.0951

Saturn 60788-01-18 01:12 G 23923437.46 23923437.55 23923437.64 0.0277 0.0234

Saturn 60788-04-15 20:38 G 23923526.19 23923526.36 23923526.54 0.0276 0.0053

Saturn 60788-07-13 16:34 G 23923615.04 23923615.19 23923615.35 0.0276 0.0132

Jupiter 60792-01-20 09:07 G 23924900.74 23924900.88 23924901.01 0.0537 0.0024

Earth 60792-04-16 21:07 G 23924988.27 23924988.38 23924988.48 0.2679 0.0900

Moon 60792-04-16 21:50 G 23924988.30 23924988.41 23924988.51 0.2678 0.1015 *

Mars 60792-05-17 03:22 G 23925018.53 23925018.64 23925018.75 0.1884 0.1238

Earth 60794-10-18 19:55 G 23925903.19 23925903.33 23925903.48 0.2652 0.0737

Moon 60794-10-18 21:22 G 23925903.25 23925903.39 23925903.53 0.2651 0.0984 *

Jupiter 60798-03-04 00:00 G 23927135.33 23927135.50 23927135.67 0.0490 0.0155

Moon 60799-04-10 17:46 G 23927538.22 23927538.24 23927538.26 0.2690 0.2630

Earth 60799-04-10 18:00 G 23927538.22 23927538.25 23927538.29 0.2683 0.2517 *

Mars 60801-10-07 03:50 G 23928448.52 23928448.66 23928448.80 0.1888 0.0531

Saturn 60803-05-14 12:00 G 23929032.93 23929033.00 23929033.07 0.0282 0.0243

Saturn 60803-08-11 00:43 G 23929121.40 23929121.53 23929121.66 0.0283 0.0089

Saturn 60803-11-07 13:12 G 23929209.92 23929210.05 23929210.18 0.0283 0.0064

Jupiter 60803-11-08 12:29 G 23929210.90 23929211.02 23929211.15 0.0538 0.0164

Saturn 60804-02-04 01:26 G 23929298.48 23929298.56 23929298.65 0.0284 0.0216

Earth 60805-04-19 15:22 G 23929739.07 23929739.14 23929739.21 0.2678 0.2066

Moon 60805-04-19 15:50 G 23929739.09 23929739.16 23929739.23 0.2672 0.2049 *

Mars 60808-06-02 11:02 G 23930878.85 23930878.96 23930879.06 0.1640 0.0846

Jupiter 60809-12-20 22:48 G 23931445.33 23931445.45 23931445.58 0.0490 0.0346

Jupiter 60810-03-21 01:12 G 23931535.46 23931535.55 23931535.64 0.0492 0.0421

Earth 60812-04-12 12:43 G 23932288.94 23932289.03 23932289.13 0.2682 0.1284

Moon 60812-04-12 13:12 G 23932288.95 23932289.05 23932289.15 0.2687 0.1196 *

Uranus 60812-08-15 10:05 G 23932413.85 23932413.92 23932414.00 0.0141 0.0128

Uranus 60812-11-11 17:17 G 23932502.10 23932502.22 23932502.36 0.0141 0.0099

Uranus 60813-02-08 00:29 G 23932590.37 23932590.52 23932590.69 0.0140 0.0070

Uranus 60813-05-07 07:55 G 23932678.65 23932678.83 23932679.01 0.0140 0.0041

Uranus 60813-08-03 15:07 G 23932766.95 23932767.13 23932767.32 0.0140 0.0012

Uranus 60813-10-30 22:34 G 23932855.25 23932855.44 23932855.62 0.0140 0.0018

Uranus 60814-01-27 05:46 G 23932943.57 23932943.74 23932943.92 0.0140 0.0047

Uranus 60814-04-25 12:58 G 23933031.90 23933032.04 23933032.21 0.0140 0.0077

Uranus 60814-07-22 20:38 G 23933120.24 23933120.36 23933120.48 0.0140 0.0106

Uranus 60814-10-19 03:50 G 23933208.63 23933208.66 23933208.71 0.0140 0.0136

Venus 60815-07-08 20:53 G 23933471.23 23933471.37 23933471.50 0.3689 0.1624

Jupiter 60815-08-27 16:19 G 23933521.08 23933521.18 23933521.28 0.0538 0.0338

Jupiter 60815-11-25 01:26 G 23933610.48 23933610.56 23933610.65 0.0536 0.0397

Saturn 60817-09-02 18:29 G 23934258.12 23934258.27 23934258.43 0.0276 0.0121

Mars 60817-10-23 20:38 G 23934309.23 23934309.36 23934309.49 0.1637 0.0023

Saturn 60817-11-30 14:10 G 23934346.92 23934347.09 23934347.27 0.0276 0.0063

Saturn 60818-02-27 10:05 G 23934435.85 23934435.92 23934436.00 0.0275 0.0248

Jupiter 60822-01-07 00:14 G 23935845.35 23935845.51 23935845.67 0.0491 0.0231

Neptune 60824-03-07 11:17 G 23936635.93 23936635.97 23936636.04 0.0088 0.0083

Neptune 60824-06-03 14:24 G 23936724.01 23936724.10 23936724.22 0.0088 0.0073

Neptune 60824-08-30 17:46 G 23936812.12 23936812.24 23936812.37 0.0088 0.0063

Neptune 60824-11-26 20:53 G 23936900.23 23936900.37 23936900.52 0.0088 0.0052

Venus 60825-01-18 23:46 G 23936953.39 23936953.49 23936953.59 0.3682 0.1148

Neptune 60825-02-22 23:46 G 23936988.34 23936988.49 23936988.67 0.0088 0.0043

Earth 60825-04-15 07:26 G 23937039.70 23937039.81 23937039.92 0.2680 0.0071

Moon 60825-04-15 08:10 G 23937039.73 23937039.84 23937039.95 0.2684 0.0007 *

Neptune 60825-05-22 02:53 G 23937076.46 23937076.62 23937076.81 0.0088 0.0032

Neptune 60825-08-18 06:14 G 23937164.59 23937164.76 23937164.95 0.0088 0.0022

Neptune 60825-11-14 09:36 G 23937252.71 23937252.90 23937253.08 0.0088 0.0011

Neptune 60826-02-10 12:43 G 23937340.85 23937341.03 23937341.22 0.0088 0.0001

Neptune 60826-05-09 15:50 G 23937428.98 23937429.16 23937429.35 0.0088 0.0010

Neptune 60826-08-05 19:12 G 23937517.12 23937517.30 23937517.48 0.0088 0.0021

Neptune 60826-11-01 22:05 G 23937605.26 23937605.42 23937605.61 0.0088 0.0032

Neptune 60827-01-29 01:26 G 23937693.40 23937693.56 23937693.73 0.0088 0.0042

Mars 60827-03-16 06:14 G 23937739.65 23937739.76 23937739.87 0.1634 0.0811

Neptune 60827-04-27 04:34 G 23937781.55 23937781.69 23937781.85 0.0088 0.0052

Jupiter 60827-06-15 19:26 G 23937831.28 23937831.31 23937831.34 0.0539 0.0525

Neptune 60827-07-24 07:41 G 23937869.70 23937869.82 23937869.97 0.0088 0.0063

Jupiter 60827-09-13 05:02 G 23937920.59 23937920.71 23937920.83 0.0536 0.0217

Earth 60827-10-16 22:05 G 23937954.28 23937954.42 23937954.56 0.2651 0.0942

Moon 60827-10-16 23:31 G 23937954.34 23937954.48 23937954.62 0.2653 0.0743 *

Neptune 60827-10-20 11:02 G 23937957.87 23937957.96 23937958.07 0.0088 0.0074

Neptune 60828-01-16 14:10 G 23938046.05 23938046.09 23938046.16 0.0088 0.0084

Venus 60830-08-04 15:22 G 23938977.05 23938977.14 23938977.24 0.3681 0.1453

Mars 60831-11-16 03:50 G 23939445.57 23939445.66 23939445.75 0.1883 0.1461

Saturn 60832-12-28 01:26 G 23939853.45 23939853.56 23939853.68 0.0283 0.0145

Saturn 60833-03-26 14:10 G 23939941.95 23939942.09 23939942.23 0.0284 0.0010

Saturn 60833-06-23 02:24 G 23940030.49 23940030.60 23940030.72 0.0284 0.0162

Jupiter 60833-10-25 23:17 G 23940155.30 23940155.47 23940155.65 0.0491 0.0044

Earth 60838-04-18 01:55 G 23941790.48 23941790.58 23941790.68 0.2679 0.1121

Moon 60838-04-18 02:38 G 23941790.51 23941790.61 23941790.71 0.2676 0.1182 *

Jupiter 60839-07-02 08:24 G 23942230.72 23942230.85 23942230.98 0.0537 0.0036

Earth 60840-10-19 02:10 G 23942705.45 23942705.59 23942705.73 0.2653 0.1111

Moon 60840-10-19 03:36 G 23942705.51 23942705.65 23942705.78 0.2650 0.1161 *

Mars 60841-04-07 03:50 G 23942875.52 23942875.66 23942875.81 0.1888 0.0355

Pluto 60841-04-09 01:41 G 23942877.57 23942877.57 23942877.62 0.0078 0.0077

Pluto 60841-07-06 03:50 G 23942965.56 23942965.66 23942965.80 0.0078 0.0056

Pluto 60841-10-02 06:00 G 23943053.61 23943053.75 23943053.92 0.0078 0.0035

Pluto 60841-12-29 08:24 G 23943141.68 23943141.85 23943142.03 0.0077 0.0013

Pluto 60842-03-27 10:34 G 23943229.76 23943229.94 23943230.11 0.0077 0.0008

Pluto 60842-06-23 12:14 G 23943317.86 23943318.01 23943318.19 0.0077 0.0030

Pluto 60842-09-19 14:24 G 23943405.98 23943406.10 23943406.24 0.0077 0.0050

Pluto 60842-12-16 16:19 G 23943494.13 23943494.18 23943494.26 0.0077 0.0071

Moon 60845-04-10 22:48 G 23944340.39 23944340.45 23944340.51 0.2689 0.2255

Earth 60845-04-10 23:02 G 23944340.40 23944340.46 23944340.52 0.2683 0.2283 *

Jupiter 60845-08-13 22:34 G 23944465.28 23944465.44 23944465.61 0.0490 0.0144

Saturn 60847-01-20 18:43 G 23944990.15 23944990.28 23944990.42 0.0277 0.0169

Saturn 60847-04-19 14:24 G 23945078.92 23945079.10 23945079.28 0.0276 0.0014

Saturn 60847-07-17 10:19 G 23945167.81 23945167.93 23945168.05 0.0276 0.0199

Mars 60847-12-02 11:02 G 23945305.86 23945305.96 23945306.06 0.1640 0.0972

Jupiter 60851-04-20 10:48 G 23946540.83 23946540.95 23946541.08 0.0538 0.0166

Earth 60851-04-20 20:24 G 23946541.29 23946541.35 23946541.40 0.2678 0.2280

Moon 60851-04-20 20:38 G 23946541.31 23946541.36 23946541.41 0.2672 0.2357 *

Uranus 60855-11-16 17:31 G 23948212.22 23948212.23 23948212.26 0.0137 0.0135

Uranus 60856-02-12 21:07 G 23948300.31 23948300.38 23948300.46 0.0137 0.0115

Uranus 60856-05-11 00:29 G 23948388.43 23948388.52 23948388.63 0.0137 0.0095

Uranus 60856-08-07 04:19 G 23948476.56 23948476.68 23948476.79 0.0138 0.0074

Uranus 60856-11-03 07:41 G 23948564.70 23948564.82 23948564.95 0.0138 0.0054

Uranus 60857-01-30 11:02 G 23948652.83 23948652.96 23948653.10 0.0138 0.0034

Mars 60857-04-23 20:53 G 23948736.24 23948736.37 23948736.49 0.1637 0.0164

Uranus 60857-04-28 14:38 G 23948740.97 23948741.11 23948741.25 0.0138 0.0013

Jupiter 60857-06-01 21:50 G 23948775.29 23948775.41 23948775.54 0.0490 0.0329

Uranus 60857-07-25 18:00 G 23948829.12 23948829.25 23948829.39 0.0138 0.0008

Jupiter 60857-08-31 00:14 G 23948865.43 23948865.51 23948865.59 0.0491 0.0437

Uranus 60857-10-21 21:22 G 23948917.26 23948917.39 23948917.53 0.0138 0.0028

Uranus 60858-01-18 00:43 G 23949005.41 23949005.53 23949005.67 0.0138 0.0049

Earth 60858-04-13 17:46 G 23949091.14 23949091.24 23949091.34 0.2682 0.1050

Moon 60858-04-13 18:14 G 23949091.16 23949091.26 23949091.36 0.2687 0.1063 *

Uranus 60858-04-16 04:05 G 23949093.56 23949093.67 23949093.80 0.0138 0.0069

Uranus 60858-07-13 07:26 G 23949181.72 23949181.81 23949181.93 0.0138 0.0089

Uranus 60858-10-09 10:48 G 23949269.88 23949269.95 23949270.05 0.0138 0.0109

Uranus 60859-01-05 14:38 G 23949358.06 23949358.11 23949358.15 0.0138 0.0128

Earth 60860-10-14 00:29 G 23950005.49 23950005.52 23950005.55 0.2650 0.2559

Moon 60860-10-14 01:26 G 23950005.52 23950005.56 23950005.61 0.2654 0.2513 *

Saturn 60862-05-17 04:34 G 23950585.59 23950585.69 23950585.80 0.0282 0.0176

Saturn 60862-08-13 17:17 G 23950674.08 23950674.22 23950674.36 0.0283 0.0022

Saturn 60862-11-10 05:31 G 23950762.61 23950762.73 23950762.86 0.0283 0.0131

Jupiter 60863-02-06 14:10 G 23950850.99 23950851.09 23950851.20 0.0539 0.0347

Saturn 60863-02-06 18:00 G 23950851.23 23950851.25 23950851.26 0.0284 0.0281

Jupiter 60863-05-06 23:31 G 23950940.40 23950940.48 23950940.57 0.0536 0.0390

Mars 60866-09-14 06:29 G 23952166.65 23952166.77 23952166.88 0.1634 0.0675

Jupiter 60869-06-18 22:34 G 23953175.28 23953175.44 23953175.59 0.0491 0.0236

Earth 60871-04-16 12:29 G 23953841.90 23953842.02 23953842.13 0.2680 0.0168

Moon 60871-04-16 13:12 G 23953841.93 23953842.05 23953842.16 0.2682 0.0281 *

Mars 60871-05-17 04:19 G 23953872.61 23953872.68 23953872.74 0.1883 0.1662

Venus 60872-02-12 22:05 G 23954144.28 23954144.42 23954144.57 0.3689 0.0913

Earth 60873-10-17 04:19 G 23954756.53 23954756.68 23954756.82 0.2651 0.0576

Moon 60873-10-17 05:46 G 23954756.59 23954756.74 23954756.88 0.2653 0.0455 *

Jupiter 60874-11-25 17:46 G 23955161.22 23955161.24 23955161.27 0.0539 0.0524

Jupiter 60875-02-23 03:36 G 23955250.53 23955250.65 23955250.77 0.0537 0.0221

Mars 60876-02-04 15:50 G 23955597.12 23955597.16 23955597.21 0.1632 0.1511

Venus 60876-02-10 05:17 G 23955602.66 23955602.72 23955602.79 0.3682 0.2793

Saturn 60876-06-08 17:31 G 23955722.13 23955722.23 23955722.32 0.0277 0.0229

Saturn 60876-09-05 12:58 G 23955810.87 23955811.04 23955811.21 0.0276 0.0048

Saturn 60876-12-03 08:38 G 23955899.71 23955899.86 23955900.02 0.0276 0.0136

Mars 60880-10-06 04:19 G 23957302.53 23957302.68 23957302.83 0.1888 0.0154

Jupiter 60881-04-06 21:36 G 23957485.22 23957485.40 23957485.58 0.0491 0.0048

Venus 60881-08-25 21:07 G 23957626.28 23957626.38 23957626.48 0.3682 0.0174

Earth 60884-04-18 06:58 G 23958592.69 23958592.79 23958592.88 0.2679 0.1343

Moon 60884-04-18 07:41 G 23958592.72 23958592.82 23958592.91 0.2675 0.1420 *

Earth 60886-10-20 08:38 G 23959507.73 23959507.86 23959507.98 0.2653 0.1500

Moon 60886-10-20 09:50 G 23959507.79 23959507.91 23959508.02 0.2649 0.1689 *

Jupiter 60886-12-12 06:58 G 23959560.66 23959560.79 23959560.92 0.0537 0.0042

Venus 60887-03-11 12:43 G 23959649.96 23959650.03 23959650.11 0.3681 0.2401

Mars 60887-06-02 11:02 G 23959732.87 23959732.96 23959733.06 0.1640 0.1110

Earth 60891-04-12 04:05 G 23961142.59 23961142.67 23961142.74 0.2683 0.2050

Moon 60891-04-12 03:50 G 23961142.60 23961142.66 23961142.73 0.2689 0.2124 *

Saturn 60891-10-04 05:46 G 23961317.66 23961317.74 23961317.81 0.0283 0.0231

Saturn 60891-12-31 18:14 G 23961406.13 23961406.26 23961406.40 0.0283 0.0076

Saturn 60892-03-29 06:43 G 23961494.65 23961494.78 23961494.91 0.0284 0.0077

Saturn 60892-06-25 18:58 G 23961583.22 23961583.29 23961583.38 0.0284 0.0229

Jupiter 60893-01-23 20:53 G 23961795.20 23961795.37 23961795.54 0.0490 0.0139

Uranus 60896-09-04 16:48 G 23963115.12 23963115.20 23963115.30 0.0141 0.0121

Mars 60896-10-22 20:53 G 23963163.24 23963163.37 23963163.49 0.1637 0.0286

Uranus 60896-12-02 00:00 G 23963203.37 23963203.50 23963203.65 0.0141 0.0093

Uranus 60897-02-28 07:12 G 23963291.65 23963291.80 23963291.97 0.0140 0.0064

Earth 60897-04-21 01:12 G 23963343.51 23963343.55 23963343.59 0.2678 0.2497

Moon 60897-04-21 01:26 G 23963343.52 23963343.56 23963343.60 0.2671 0.2481 *

Uranus 60897-05-27 14:38 G 23963379.93 23963380.11 23963380.29 0.0140 0.0034

Uranus 60897-08-23 21:50 G 23963468.23 23963468.41 23963468.60 0.0140 0.0006

Uranus 60897-11-20 05:17 G 23963556.54 23963556.72 23963556.90 0.0140 0.0024

Uranus 60898-02-16 12:29 G 23963644.85 23963645.02 23963645.20 0.0140 0.0053

Uranus 60898-05-15 19:41 G 23963733.18 23963733.32 23963733.48 0.0140 0.0083

Uranus 60898-08-12 03:07 G 23963821.53 23963821.63 23963821.75 0.0140 0.0112

Jupiter 60898-09-30 10:05 G 23963870.80 23963870.92 23963871.05 0.0538 0.0147

Earth 60904-04-14 22:48 G 23965893.34 23965893.45 23965893.56 0.2681 0.0822

Moon 60904-04-14 23:17 G 23965893.36 23965893.47 23965893.58 0.2687 0.0699 *

Jupiter 60904-11-12 20:24 G 23966105.22 23966105.35 23966105.48 0.0490 0.0320

Neptune 60905-01-04 07:55 G 23966157.80 23966157.83 23966157.90 0.0089 0.0083

Jupiter 60905-02-10 22:34 G 23966195.37 23966195.44 23966195.52 0.0492 0.0446

Neptune 60905-04-02 09:50 G 23966245.84 23966245.91 23966245.99 0.0089 0.0074

Neptune 60905-06-29 11:17 G 23966333.88 23966333.97 23966334.07 0.0089 0.0066

Neptune 60905-09-25 12:43 G 23966421.93 23966422.03 23966422.14 0.0089 0.0058

Neptune 60905-12-22 14:10 G 23966509.99 23966510.09 23966510.21 0.0089 0.0050

Saturn 60906-01-24 12:58 G 23966542.88 23966543.04 23966543.20 0.0277 0.0098

Mars 60906-03-16 06:29 G 23966593.65 23966593.77 23966593.89 0.1635 0.0541

Neptune 60906-03-20 15:50 G 23966598.04 23966598.16 23966598.28 0.0089 0.0041

Saturn 60906-04-23 08:38 G 23966631.69 23966631.86 23966632.03 0.0276 0.0086

Neptune 60906-06-16 17:17 G 23966686.10 23966686.22 23966686.35 0.0089 0.0033

Saturn 60906-07-21 04:34 G 23966720.67 23966720.69 23966720.72 0.0276 0.0272

Neptune 60906-09-12 18:43 G 23966774.15 23966774.28 23966774.42 0.0089 0.0025

Earth 60906-10-16 06:43 G 23966807.70 23966807.78 23966807.86 0.2650 0.2201

Moon 60906-10-16 07:55 G 23966807.73 23966807.83 23966807.92 0.2654 0.2008 *

Neptune 60906-12-09 20:24 G 23966862.21 23966862.35 23966862.48 0.0089 0.0017

Neptune 60907-03-07 21:50 G 23966950.27 23966950.41 23966950.55 0.0089 0.0009

Neptune 60907-06-03 23:17 G 23967038.33 23967038.47 23967038.61 0.0089 0.0001

Neptune 60907-08-31 00:43 G 23967126.39 23967126.53 23967126.67 0.0089 0.0007

Neptune 60907-11-27 02:10 G 23967214.46 23967214.59 23967214.73 0.0089 0.0015

Neptune 60908-02-23 03:36 G 23967302.52 23967302.65 23967302.78 0.0089 0.0023

Neptune 60908-05-21 04:48 G 23967390.58 23967390.70 23967390.84 0.0089 0.0032

Neptune 60908-08-17 06:29 G 23967478.65 23967478.77 23967478.89 0.0089 0.0039

Neptune 60908-11-13 07:55 G 23967566.72 23967566.83 23967566.95 0.0089 0.0047

Neptune 60909-02-09 09:22 G 23967654.78 23967654.89 23967655.00 0.0089 0.0054

Neptune 60909-05-08 10:34 G 23967742.85 23967742.94 23967743.05 0.0089 0.0063

Neptune 60909-08-04 12:00 G 23967830.93 23967831.00 23967831.09 0.0089 0.0070

Neptune 60909-10-31 13:26 G 23967919.01 23967919.06 23967919.13 0.0089 0.0078

Neptune 60910-01-27 15:07 G 23968007.10 23968007.13 23968007.16 0.0089 0.0086

Jupiter 60910-07-20 12:29 G 23968180.92 23968181.02 23968181.12 0.0539 0.0350

Jupiter 60910-10-17 21:50 G 23968270.32 23968270.41 23968270.50 0.0536 0.0385

Mars 60910-11-16 04:19 G 23968299.66 23968299.68 23968299.71 0.1884 0.1847

Mars 60915-08-06 16:05 G 23970024.10 23970024.17 23970024.23 0.1632 0.1374

Jupiter 60916-11-29 21:22 G 23970505.24 23970505.39 23970505.54 0.0491 0.0252

Earth 60917-04-17 17:17 G 23970644.11 23970644.22 23970644.33 0.2680 0.0388

Moon 60917-04-17 18:00 G 23970644.14 23970644.25 23970644.37 0.2680 0.0423 *

Earth 60919-10-19 10:34 G 23971558.79 23971558.94 23971559.09 0.2651 0.0209

Moon 60919-10-19 12:00 G 23971558.85 23971559.00 23971559.15 0.2652 0.0082 *

Mars 60920-04-07 04:48 G 23971729.56 23971729.70 23971729.85 0.1888 0.0081

Saturn 60921-02-21 09:07 G 23972049.83 23972049.88 23972049.93 0.0282 0.0258

Saturn 60921-05-20 21:36 G 23972138.28 23972138.40 23972138.53 0.0282 0.0105

Saturn 60921-08-17 10:19 G 23972226.79 23972226.93 23972227.06 0.0283 0.0050

Saturn 60921-11-13 22:34 G 23972315.35 23972315.44 23972315.54 0.0283 0.0201

Jupiter 60922-05-08 15:50 G 23972491.15 23972491.16 23972491.16 0.0539 0.0537

Jupiter 60922-08-06 01:26 G 23972580.44 23972580.56 23972580.68 0.0537 0.0210

Mars 60926-12-02 11:17 G 23974159.89 23974159.97 23974160.05 0.1640 0.1240

Jupiter 60928-09-17 19:41 G 23974815.15 23974815.32 23974815.50 0.0490 0.0051

Venus 60928-09-19 23:31 G 23974817.43 23974817.48 23974817.53 0.3689 0.3468

Mars 60929-08-28 05:02 G 23975159.66 23975159.71 23975159.77 0.1891 0.1720

Earth 60930-04-20 11:46 G 23975394.90 23975394.99 23975395.08 0.2679 0.1560

Moon 60930-04-20 12:29 G 23975394.93 23975395.02 23975395.11 0.2675 0.1643 *

Venus 60932-09-17 02:53 G 23976275.53 23976275.62 23976275.71 0.3682 0.1804

Earth 60932-10-21 14:53 G 23976310.01 23976310.12 23976310.22 0.2653 0.1880

Moon 60932-10-21 16:05 G 23976310.07 23976310.17 23976310.27 0.2648 0.1951 *

Jupiter 60934-05-25 05:17 G 23976890.59 23976890.72 23976890.85 0.0538 0.0040

Saturn 60935-06-13 12:14 G 23977274.87 23977275.01 23977275.16 0.0277 0.0152

Saturn 60935-09-10 07:55 G 23977363.66 23977363.83 23977364.01 0.0276 0.0031

Saturn 60935-12-08 03:36 G 23977452.55 23977452.65 23977452.77 0.0276 0.0215

Mars 60936-04-23 20:53 G 23977590.25 23977590.37 23977590.50 0.1637 0.0426

Moon 60937-04-13 09:07 G 23977944.79 23977944.88 23977944.96 0.2689 0.1761

Earth 60937-04-13 08:53 G 23977944.79 23977944.87 23977944.96 0.2682 0.1816 *

Venus 60938-04-02 18:43 G 23978299.17 23978299.28 23978299.38 0.3681 0.0818

Uranus 60939-12-08 00:29 G 23978913.49 23978913.52 23978913.57 0.0137 0.0131

Uranus 60940-03-05 04:05 G 23979001.60 23979001.67 23979001.76 0.0137 0.0110

Uranus 60940-06-01 07:41 G 23979089.72 23979089.82 23979089.93 0.0138 0.0090

Jupiter 60940-07-06 18:58 G 23979125.12 23979125.29 23979125.46 0.0490 0.0136

Uranus 60940-08-28 11:02 G 23979177.85 23979177.96 23979178.09 0.0138 0.0070

Uranus 60940-11-24 14:38 G 23979265.99 23979266.11 23979266.24 0.0138 0.0049

Uranus 60941-02-20 18:14 G 23979354.13 23979354.26 23979354.39 0.0138 0.0029

Uranus 60941-05-19 21:36 G 23979442.27 23979442.40 23979442.54 0.0138 0.0009

Uranus 60941-08-16 01:12 G 23979530.41 23979530.55 23979530.68 0.0138 0.0012

Uranus 60941-11-12 04:34 G 23979618.56 23979618.69 23979618.82 0.0138 0.0032

Uranus 60942-02-08 07:55 G 23979706.71 23979706.83 23979706.96 0.0138 0.0052

Uranus 60942-05-07 11:17 G 23979794.86 23979794.97 23979795.09 0.0138 0.0072

Uranus 60942-08-03 14:38 G 23979883.02 23979883.11 23979883.21 0.0138 0.0092

Uranus 60942-10-30 18:00 G 23979971.18 23979971.25 23979971.33 0.0138 0.0113

Uranus 60943-01-26 21:22 G 23980059.36 23980059.39 23980059.43 0.0138 0.0133

Venus 60943-10-17 10:19 G 23980322.89 23980322.93 23980322.97 0.3681 0.3353

Mars 60945-09-14 06:43 G 23981020.65 23981020.78 23981020.90 0.1634 0.0407

Jupiter 60946-03-13 08:38 G 23981200.74 23981200.86 23981200.99 0.0538 0.0144

Earth 60950-04-16 03:36 G 23982695.54 23982695.65 23982695.76 0.2681 0.0594

Moon 60950-04-16 04:19 G 23982695.57 23982695.68 23982695.79 0.2686 0.0605 *

Saturn 60950-10-07 22:48 G 23982870.34 23982870.45 23982870.57 0.0283 0.0158

Saturn 60951-01-04 11:31 G 23982958.84 23982958.98 23982959.11 0.0283 0.0009

Saturn 60951-04-02 23:46 G 23983047.38 23983047.49 23983047.61 0.0284 0.0149

Jupiter 60952-04-24 18:14 G 23983435.13 23983435.26 23983435.39 0.0490 0.0321

Jupiter 60952-07-23 20:24 G 23983525.28 23983525.35 23983525.43 0.0492 0.0447

Earth 60952-10-16 12:43 G 23983609.93 23983610.03 23983610.14 0.2650 0.1844

Moon 60952-10-16 14:10 G 23983609.98 23983610.09 23983610.19 0.2654 0.1813 *

Mars 60955-02-04 16:05 G 23984451.09 23984451.17 23984451.25 0.1632 0.1238

Jupiter 60957-12-30 11:46 G 23985510.89 23985510.99 23985511.09 0.0538 0.0333

Jupiter 60958-03-29 20:53 G 23985600.29 23985600.37 23985600.46 0.0536 0.0401

Mars 60959-10-07 05:02 G 23986156.56 23986156.71 23986156.85 0.1888 0.0246

Earth 60963-04-18 22:19 G 23987446.32 23987446.43 23987446.54 0.2680 0.0609

Moon 60963-04-18 23:02 G 23987446.35 23987446.46 23987446.57 0.2679 0.0764 *

Jupiter 60964-05-11 19:26 G 23987835.17 23987835.31 23987835.47 0.0491 0.0257

Saturn 60964-10-30 12:14 G 23988006.90 23988007.01 23988007.14 0.0277 0.0201

Saturn 60965-01-27 07:55 G 23988095.66 23988095.83 23988096.01 0.0276 0.0019

Saturn 60965-04-26 03:36 G 23988184.52 23988184.65 23988184.80 0.0276 0.0165

Earth 60965-10-19 16:48 G 23988361.05 23988361.20 23988361.35 0.2652 0.0178

Moon 60965-10-19 18:14 G 23988361.11 23988361.26 23988361.41 0.2650 0.0373 *

Mars 60966-06-02 11:17 G 23988586.90 23988586.97 23988587.04 0.1640 0.1368

Mars 60969-02-26 05:31 G 23989586.65 23989586.73 23989586.81 0.1892 0.1522

Jupiter 60970-01-15 23:46 G 23989910.36 23989910.49 23989910.61 0.0537 0.0205

Mars 60975-10-23 21:07 G 23992017.26 23992017.38 23992017.50 0.1637 0.0554

Jupiter 60976-02-28 18:29 G 23992145.09 23992145.27 23992145.44 0.0490 0.0064

Earth 60976-04-20 16:34 G 23992197.11 23992197.19 23992197.28 0.2679 0.1784

Moon 60976-04-20 17:17 G 23992197.13 23992197.22 23992197.30 0.2674 0.1804 *

Earth 60978-10-22 21:07 G 23993112.31 23993112.38 23993112.46 0.2653 0.2266

Moon 60978-10-22 22:19 G 23993112.37 23993112.43 23993112.49 0.2649 0.2408 *

Venus 60979-10-11 18:14 G 23993466.12 23993466.26 23993466.40 0.3689 0.1512

Saturn 60980-02-25 02:24 G 23993602.50 23993602.60 23993602.71 0.0282 0.0183

Saturn 60980-05-23 15:07 G 23993690.99 23993691.13 23993691.27 0.0283 0.0028

Saturn 60980-08-20 03:36 G 23993779.53 23993779.65 23993779.77 0.0283 0.0124

Uranus 60980-09-26 00:00 G 23993816.40 23993816.50 23993816.61 0.0141 0.0114

Saturn 60980-11-16 15:50 G 23993868.13 23993868.16 23993868.19 0.0284 0.0275

Uranus 60980-12-23 06:58 G 23993904.66 23993904.79 23993904.95 0.0141 0.0086

Uranus 60981-03-21 14:24 G 23993992.94 23993993.10 23993993.27 0.0140 0.0056

Uranus 60981-06-17 21:36 G 23994081.22 23994081.40 23994081.59 0.0140 0.0027

Uranus 60981-09-14 05:02 G 23994169.52 23994169.71 23994169.89 0.0140 0.0003

Jupiter 60981-11-04 03:07 G 23994220.49 23994220.63 23994220.76 0.0538 0.0028

Uranus 60981-12-11 12:14 G 23994257.83 23994258.01 23994258.19 0.0140 0.0031

Uranus 60982-03-09 19:26 G 23994346.15 23994346.31 23994346.48 0.0140 0.0060

Uranus 60982-06-06 02:38 G 23994434.48 23994434.61 23994434.76 0.0140 0.0090

Uranus 60982-09-02 10:05 G 23994522.83 23994522.92 23994523.03 0.0140 0.0119

Earth 60983-04-14 13:55 G 23994746.99 23994747.08 23994747.17 0.2682 0.1581

Moon 60983-04-14 14:10 G 23994747.00 23994747.09 23994747.18 0.2689 0.1597 *

Venus 60983-10-09 08:24 G 23994924.82 23994924.85 23994924.89 0.3682 0.3462

Mars 60985-03-15 06:43 G 23995447.66 23995447.78 23995447.91 0.1634 0.0267

Jupiter 60987-12-17 16:48 G 23996455.03 23996455.20 23996455.37 0.0490 0.0136

Neptune 60988-09-06 07:12 G 23996718.79 23996718.80 23996718.83 0.0088 0.0087

Neptune 60988-12-03 10:19 G 23996806.85 23996806.93 23996807.03 0.0088 0.0077

Neptune 60989-03-01 13:12 G 23996894.95 23996895.05 23996895.19 0.0088 0.0067

Venus 60989-04-24 00:14 G 23996948.41 23996948.51 23996948.61 0.3682 0.0827

Neptune 60989-05-28 16:19 G 23996983.06 23996983.18 23996983.34 0.0088 0.0057

Neptune 60989-08-24 19:41 G 23997071.17 23997071.32 23997071.48 0.0088 0.0047

Neptune 60989-11-20 22:48 G 23997159.29 23997159.45 23997159.63 0.0088 0.0036

Neptune 60990-02-17 01:55 G 23997247.41 23997247.58 23997247.77 0.0088 0.0026

Neptune 60990-05-16 05:17 G 23997335.54 23997335.72 23997335.90 0.0088 0.0015

Neptune 60990-08-12 08:24 G 23997423.67 23997423.85 23997424.04 0.0088 0.0005

Neptune 60990-11-08 11:31 G 23997511.80 23997511.98 23997512.17 0.0088 0.0006

Neptune 60991-02-04 14:38 G 23997599.94 23997600.11 23997600.30 0.0088 0.0017

Neptune 60991-05-03 18:00 G 23997688.07 23997688.25 23997688.43 0.0088 0.0027

Neptune 60991-07-30 21:07 G 23997776.22 23997776.38 23997776.55 0.0088 0.0037

Neptune 60991-10-27 00:00 G 23997864.36 23997864.50 23997864.68 0.0088 0.0049

Neptune 60992-01-23 03:36 G 23997952.52 23997952.65 23997952.79 0.0088 0.0058

Neptune 60992-04-20 06:29 G 23998040.67 23998040.77 23998040.90 0.0088 0.0070

Neptune 60992-07-17 10:05 G 23998128.85 23998128.92 23998129.00 0.0088 0.0080

Jupiter	**60993-08-23 06:43**	**G**	**23998530.65**	**23998530.78**	**23998530.91**	**0.0538**	**0.0151**	
Saturn	**60994-03-19 12:29**	**G**	**23998738.95**	**23998739.02**	**23998739.11**	**0.0277**	**0.0247**	
Saturn	**60994-06-16 08:10**	**G**	**23998827.67**	**23998827.84**	**23998828.01**	**0.0276**	**0.0067**	
Mars	**60994-08-05 16:19**	**G**	**23998878.08**	**23998878.18**	**23998878.27**	**0.1632**	**0.1099**	
Saturn	**60994-09-13 03:36**	**G**	**23998916.50**	**23998916.65**	**23998916.82**	**0.0276**	**0.0117**	
Venus	**60994-11-07 16:05**	**G**	**23998972.08**	**23998972.17**	**23998972.26**	**0.3681**	**0.1769**	
Earth	**60996-04-16 08:38**	**G**	**23999497.75**	**23999497.86**	**23999497.97**	**0.2681**	**0.0361**	
Moon	**60996-04-16 09:22**	**G**	**23999497.77**	**23999497.89**	**23999498.00**	**0.2684**	**0.0246**	*
Earth	**60998-10-17 18:58**	**G**	**24000412.17**	**24000412.29**	**24000412.41**	**0.2650**	**0.1482**	
Moon	**60998-10-17 20:10**	**G**	**24000412.21**	**24000412.34**	**24000412.47**	**0.2654**	**0.1263**	*
Mars	**60999-04-07 05:31**	**G**	**24000583.58**	**24000583.73**	**24000583.87**	**0.1888**	**0.0452**	
Jupiter	**60999-10-05 16:05**	**G**	**24000765.04**	**24000765.17**	**24000765.30**	**0.0490**	**0.0321**	
Jupiter	**61000-01-03 18:14**	**G**	**24000855.19**	**24000855.26**	**24000855.33**	**0.0492**	**0.0445**	

62ND MILLENNIUM CE

This is a list of transits of Mercury in the 62nd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Pluto	**61001-08-02 14:24**	**G**	**24001431.04**	**24001431.10**	**24001431.19**	**0.0066**	**0.0056**	
Pluto	**61001-10-29 15:07**	**G**	**24001519.04**	**24001519.13**	**24001519.25**	**0.0066**	**0.0045**	
Pluto	**61002-01-25 15:50**	**G**	**24001607.05**	**24001607.16**	**24001607.29**	**0.0066**	**0.0035**	
Pluto	**61002-04-23 16:48**	**G**	**24001695.06**	**24001695.20**	**24001695.33**	**0.0066**	**0.0023**	
Pluto	**61002-07-20 17:17**	**G**	**24001783.08**	**24001783.22**	**24001783.37**	**0.0066**	**0.0013**	
Pluto	**61002-10-16 18:00**	**G**	**24001871.11**	**24001871.25**	**24001871.39**	**0.0066**	**0.0002**	

Pluto 61003-01-12 18:43 G 24001959.14 24001959.28 24001959.42 0.0067 0.0009

Pluto 61003-04-10 19:12 G 24002047.17 24002047.30 24002047.44 0.0067 0.0020

Pluto 61003-07-07 19:55 G 24002135.21 24002135.33 24002135.46 0.0067 0.0031

Pluto 61003-10-03 20:24 G 24002223.25 24002223.35 24002223.47 0.0067 0.0042

Pluto 61003-12-30 20:53 G 24002311.30 24002311.37 24002311.47 0.0067 0.0053

Pluto 61004-03-27 21:36 G 24002399.37 24002399.40 24002399.45 0.0067 0.0064

Jupiter 61005-06-12 10:05 G 24002840.82 24002840.92 24002841.02 0.0538 0.0334

Jupiter 61005-09-09 19:26 G 24002930.22 24002930.31 24002930.39 0.0536 0.0400

Mars 61005-12-02 11:31 G 24003013.93 24003013.98 24003014.02 0.1640 0.1501

Mars 61008-08-28 05:46 G 24004013.64 24004013.74 24004013.85 0.1892 0.1326

Earth 61009-04-20 03:07 G 24004248.53 24004248.63 24004248.74 0.2680 0.0836

Moon 61009-04-20 04:05 G 24004248.56 24004248.67 24004248.77 0.2679 0.0856 *

Saturn 61009-07-15 03:36 G 24004334.58 24004334.65 24004334.73 0.0282 0.0235

Saturn 61009-10-11 16:19 G 24004423.05 24004423.18 24004423.31 0.0283 0.0081

Saturn 61010-01-08 04:48 G 24004511.57 24004511.70 24004511.83 0.0283 0.0072

Saturn 61010-04-06 17:02 G 24004600.13 24004600.21 24004600.30 0.0284 0.0224

Earth 61011-10-21 23:02 G 24005163.31 24005163.46 24005163.60 0.2652 0.0545

Moon 61011-10-22 00:29 G 24005163.37 24005163.52 24005163.66 0.2649 0.0613 *

Jupiter 61011-10-23 17:02 G 24005165.06 24005165.21 24005165.37 0.0491 0.0253

Mars 61015-04-24 21:07 G 24006444.27 24006444.38 24006444.50 0.1637 0.0687

Moon 61016-04-12 23:46 G 24006798.47 24006798.49 24006798.51 0.2689 0.2621

Earth 61016-04-13 00:00 G 24006798.47 24006798.50 24006798.53 0.2683 0.2592 *

Jupiter 61017-03-31 12:58 G 24007151.02 24007151.04 24007151.07 0.0539 0.0527

Jupiter 61017-06-28 22:48 G 24007240.33 24007240.45 24007240.57 0.0537 0.0219

Earth 61022-04-22 21:36 G 24008999.33 24008999.40 24008999.47 0.2679 0.1997

Moon 61022-04-22 21:50 G 24008999.34 24008999.41 24008999.48 0.2673 0.2086 *

Jupiter 61023-08-11 16:19 G 24009475.01 24009475.18 24009475.36 0.0491 0.0067

Saturn 61023-11-04 07:55 G 24009559.68 24009559.83 24009559.99 0.0277 0.0117

Uranus 61023-12-29 07:26 G 24009614.77 24009614.81 24009614.87 0.0137 0.0127

Saturn 61024-02-01 03:36 G 24009648.48 24009648.65 24009648.82 0.0276 0.0066

Uranus 61024-03-26 10:48 G 24009702.88 24009702.95 24009703.05 0.0138 0.0107

Saturn 61024-04-29 23:31 G 24009737.41 24009737.48 24009737.55 0.0276 0.0251

Uranus 61024-06-22 14:38 G 24009791.00 24009791.11 24009791.22 0.0138 0.0086

Mars 61024-09-14 06:58 G 24009874.66 24009874.79 24009874.91 0.1635 0.0147

Uranus 61024-09-18 18:00 G 24009879.14 24009879.25 24009879.38 0.0138 0.0066

Earth 61024-10-24 03:22 G 24009914.64 24009914.64 24009914.65 0.2653 0.2649

Uranus 61024-12-15 21:36 G 24009967.27 24009967.40 24009967.53 0.0138 0.0045

Uranus 61025-03-14 01:12 G 24010055.41 24010055.55 24010055.68 0.0138 0.0025

Uranus 61025-06-10 04:34 G 24010143.56 24010143.69 24010143.83 0.0138 0.0005

Uranus 61025-09-06 07:55 G 24010231.70 24010231.83 24010231.97 0.0138 0.0017

Uranus 61025-12-03 11:31 G 24010319.85 24010319.98 24010320.11 0.0138 0.0036

Uranus 61026-03-01 14:53 G 24010408.00 24010408.12 24010408.24 0.0138 0.0056

Uranus 61026-05-28 18:14 G 24010496.15 24010496.26 24010496.37 0.0138 0.0076

Uranus 61026-08-24 21:36 G 24010584.31 24010584.40 24010584.50 0.0138 0.0097

Uranus 61026-11-21 00:58 G 24010672.48 24010672.54 24010672.62 0.0138 0.0117

Uranus 61027-02-17 04:19 G 24010760.67 24010760.68 24010760.71 0.0138 0.0137

Earth 61029-04-15 18:58 G 24011549.19 24011549.29 24011549.38 0.2682 0.1356

Moon 61029-04-15 19:12 G 24011549.20 24011549.30 24011549.39 0.2689 0.1309 *

Jupiter 61029-04-17 01:12 G 24011550.42 24011550.55 24011550.68 0.0537 0.0019

Mars 61034-02-04 16:19 G 24013305.08 24013305.18 24013305.29 0.1632 0.0962

Jupiter 61035-05-30 15:22 G 24013784.97 24013785.14 24013785.31 0.0490 0.0125

Venus 61036-05-18 19:41 G 24014139.17 24014139.32 24014139.46 0.3689 0.1018

Mars 61038-10-07 06:00 G 24015010.61 24015010.75 24015010.88 0.1888 0.0665

Saturn 61038-12-02 07:12 G 24015066.75 24015066.80 24015066.86 0.0282 0.0259

Saturn 61039-02-28 19:55 G 24015155.21 24015155.33 24015155.47 0.0283 0.0105

Saturn 61039-05-28 08:38 G 24015243.72 24015243.86 24015244.00 0.0283 0.0049

Saturn 61039-08-24 21:07 G 24015332.28 24015332.38 24015332.47 0.0284 0.0201

Venus 61040-05-16 06:00 G 24015597.67 24015597.75 24015597.83 0.3682 0.2462

Jupiter 61041-02-03 04:19 G 24015860.56 24015860.68 24015860.81 0.0538 0.0168

Earth 61042-04-18 13:41 G 24016299.95 24016300.07 24016300.18 0.2681 0.0156

Moon 61042-04-18 14:24 G 24016299.98 24016300.10 24016300.21 0.2683 0.0113 *

Earth 61044-10-19 01:12 G 24017214.41 24017214.55 24017214.68 0.2651 0.1127

Moon 61044-10-19 02:24 G 24017214.47 24017214.60 24017214.74 0.2652 0.1084 *

Mars 61045-06-02 11:31 G 24017440.97 24017440.98 24017440.99 0.1640 0.1634

Venus 61045-11-29 21:50 G 24017621.31 24017621.41 24017621.51 0.3682 0.0171

Jupiter 61047-03-18 13:55 G 24018094.95 24018095.08 24018095.21 0.0489 0.0323

Jupiter 61047-06-16 15:50 G 24018185.09 24018185.16 24018185.24 0.0491 0.0441

Mars 61048-02-27 06:14 G 24018440.64 24018440.76 24018440.88 0.1891 0.1123

Venus 61051-06-15 13:26 G 24019645.00 24019645.06 24019645.13 0.3681 0.2733

Jupiter 61052-11-22 07:55 G 24020170.73 24020170.83 24020170.93 0.0539 0.0346

Jupiter 61053-02-19 17:17 G 24020260.14 24020260.22 24020260.31 0.0537 0.0393

Saturn 61053-03-23 08:53 G 24020291.73 24020291.87 24020292.02 0.0277 0.0157

Saturn 61053-06-20 04:34 G 24020380.51 24020380.69 24020380.86 0.0276 0.0025

Saturn 61053-09-17 00:14 G 24020469.40 24020469.51 24020469.63 0.0276 0.0209

Mars 61054-10-23 21:22 G 24020871.28 24020871.39 24020871.50 0.1637 0.0822

Earth 61055-04-21 08:10 G 24021050.73 24021050.84 24021050.94 0.2680 0.1055

Moon 61055-04-21 08:53 G 24021050.77 24021050.87 24021050.97 0.2678 0.1204 *

Earth 61057-10-22 05:17 G 24021965.58 24021965.72 24021965.86 0.2652 0.0917

Moon 61057-10-22 06:43 G 24021965.64 24021965.78 24021965.91 0.2649 0.1153 *

Jupiter 61059-04-04 14:38 G 24022494.96 24022495.11 24022495.27 0.0491 0.0248

Moon 61062-04-14 04:48 G 24023600.66 24023600.70 24023600.75 0.2690 0.2423

Earth 61062-04-14 05:02 G 24023600.66 24023600.71 24023600.76 0.2683 0.2359 *

Mars 61064-03-15 06:58 G 24024301.66 24024301.79 24024301.92 0.1634 0.0015

Uranus 61064-07-21 00:00 G 24024429.46 24024429.50 24024429.56 0.0141 0.0135

Jupiter 61064-09-10 11:17 G 24024480.95 24024480.97 24024480.99 0.0539 0.0531

Uranus 61064-10-17 07:12 G 24024517.69 24024517.80 24024517.93 0.0141 0.0106

Jupiter 61064-12-08 20:53 G 24024570.26 24024570.37 24024570.50 0.0537 0.0217

Uranus 61065-01-13 14:10 G 24024605.95 24024606.09 24024606.26 0.0140 0.0078

Uranus 61065-04-11 21:36 G 24024694.23 24024694.40 24024694.58 0.0140 0.0048

Uranus 61065-07-09 04:48 G 24024782.52 24024782.70 24024782.89 0.0140 0.0020

Uranus 61065-10-05 12:00 G 24024870.82 24024871.00 24024871.19 0.0140 0.0011

Uranus 61066-01-01 19:12 G 24024959.13 24024959.30 24024959.49 0.0140 0.0040

Uranus 61066-03-31 02:38 G 24025047.45 24025047.61 24025047.78 0.0140 0.0068

Uranus 61066-06-27 09:50 G 24025135.79 24025135.91 24025136.05 0.0140 0.0098

Uranus 61066-09-23 17:17 G 24025224.15 24025224.22 24025224.30 0.0140 0.0127

Earth 61068-04-23 02:24 G 24025801.54 24025801.60 24025801.66 0.2678 0.2219

Moon 61068-04-23 02:53 G 24025801.55 24025801.62 24025801.68 0.2672 0.2178 *

Saturn 61068-07-17 21:22 G 24025887.27 24025887.39 24025887.50 0.0283 0.0156

Saturn 61068-10-14 09:50 G 24025975.78 24025975.91 24025976.05 0.0283 0.0009

Saturn 61069-01-10 22:19 G 24026064.32 24026064.43 24026064.55 0.0284 0.0151

Neptune 61069-07-06 06:29 G 24026240.74 24026240.77 24026240.82 0.0089 0.0085

Neptune 61069-10-02 07:55 G 24026328.77 24026328.83 24026328.91 0.0089 0.0077

Neptune 61069-12-29 09:22 G 24026416.82 24026416.89 24026416.99 0.0089 0.0069

Neptune 61070-03-27 11:17 G 24026504.87 24026504.97 24026505.07 0.0089 0.0061

Neptune 61070-06-23 12:43 G 24026592.92 24026593.03 24026593.14 0.0089 0.0053

Neptune 61070-09-19 14:10 G 24026680.97 24026681.09 24026681.21 0.0089 0.0045

Neptune 61070-12-16 15:36 G 24026769.03 24026769.15 24026769.28 0.0089 0.0037

Jupiter 61071-01-21 13:55 G 24026804.90 24026805.08 24026805.25 0.0491 0.0059

Neptune 61071-03-14 17:17 G 24026857.09 24026857.22 24026857.35 0.0089 0.0028

Neptune 61071-06-10 18:43 G 24026945.15 24026945.28 24026945.41 0.0089 0.0020

Neptune 61071-09-06 20:10 G 24027033.20 24027033.34 24027033.48 0.0089 0.0012

Neptune 61071-12-03 21:36 G 24027121.27 24027121.40 24027121.54 0.0089 0.0004

Neptune 61072-02-29 23:02 G 24027209.33 24027209.46 24027209.60 0.0089 0.0004

Neptune 61072-05-28 00:29 G 24027297.39 24027297.52 24027297.66 0.0089 0.0012

Neptune 61072-08-24 01:55 G 24027385.45 24027385.58 24027385.72 0.0089 0.0020

Neptune 61072-11-20 03:22 G 24027473.52 24027473.64 24027473.77 0.0089 0.0028

Neptune 61073-02-16 05:02 G 24027561.58 24027561.71 24027561.83 0.0089 0.0036

Neptune 61073-05-15 06:14 G 24027649.65 24027649.76 24027649.88 0.0089 0.0044

Mars 61073-08-05 16:19 G 24027732.08 24027732.18 24027732.30 0.1632 0.0832

Neptune 61073-08-11 07:41 G 24027737.72 24027737.82 24027737.94 0.0089 0.0051

Neptune 61073-11-07 09:07 G 24027825.78 24027825.88 24027825.99 0.0089 0.0059

Neptune 61074-02-03 10:34 G 24027913.86 24027913.94 24027914.03 0.0089 0.0067

Neptune 61074-05-02 11:46 G 24028001.93 24028001.99 24028002.08 0.0089 0.0075

Neptune 61074-07-29 13:26 G 24028090.02 24028090.06 24028090.11 0.0089 0.0082

Earth 61075-04-16 23:46 G 24028351.39 24028351.49 24028351.60 0.2682 0.1123

Moon 61075-04-17 00:14 G 24028351.40 24028351.51 24028351.61 0.2688 0.1085 *

Jupiter 61076-09-27 00:14 G 24028880.38 24028880.51 24028880.64 0.0537 0.0031

Mars 61078-04-07 06:00 G 24029437.62 24029437.75 24029437.88 0.1887 0.0841

Saturn 61082-08-10 08:53 G 24031023.76 24031023.87 24031023.98 0.0277 0.0207

Saturn 61082-11-07 04:19 G 24031112.51 24031112.68 24031112.85 0.0276 0.0026

Jupiter 61082-11-09 13:12 G 24031114.88 24031115.05 24031115.22 0.0490 0.0126

Saturn 61083-02-04 00:00 G 24031201.36 24031201.50 24031201.65 0.0276 0.0157

Mars 61087-08-28 06:29 G 24032867.65 24032867.77 24032867.90 0.1892 0.0934

Earth 61088-04-18 18:29 G 24033102.16 24033102.27 24033102.38 0.2681 0.0092

Moon 61088-04-18 19:12 G 24033102.19 24033102.30 24033102.42 0.2682 0.0222 *

Jupiter 61088-07-16 02:38 G 24033190.48 24033190.61 24033190.73 0.0538 0.0174

Pluto 61089-02-08 11:02 G 24033397.87 24033397.96 24033398.08 0.0078 0.0063

Pluto 61089-05-07 13:12 G 24033485.91 24033486.05 24033486.21 0.0078 0.0042

Pluto 61089-08-03 15:22 G 24033573.97 24033574.14 24033574.31 0.0078 0.0020

Pluto 61089-10-30 17:31 G 24033662.05 24033662.23 24033662.41 0.0077 0.0001

Pluto 61090-01-26 19:12 G 24033750.15 24033750.30 24033750.48 0.0077 0.0023

Pluto 61090-04-24 21:07 G 24033838.25 24033838.38 24033838.55 0.0077 0.0043

Pluto 61090-07-21 23:31 G 24033926.39 24033926.48 24033926.58 0.0077 0.0063

Earth 61090-10-20 07:12 G 24034016.66 24034016.80 24034016.95 0.2651 0.0763

Moon 61090-10-20 08:53 G 24034016.72 24034016.87 24034017.01 0.2651 0.0528 *

Venus 61092-12-23 20:53 G 24034812.34 24034812.37 24034812.41 0.3689 0.3563

Mars 61094-04-23 21:22 G 24035298.29 24035298.39 24035298.50 0.1637 0.0954

Jupiter 61094-08-28 12:14 G 24035424.88 24035425.01 24035425.15 0.0490 0.0314

Jupiter 61094-11-26 14:24 G 24035515.04 24035515.10 24035515.17 0.0491 0.0452

Venus 61096-12-21 03:36 G 24036270.55 24036270.65 24036270.74 0.3682 0.1478

Saturn 61097-12-05 00:58 G 24036619.44 24036619.54 24036619.65 0.0283 0.0180

Saturn 61098-03-03 13:41 G 24036707.94 24036708.07 24036708.21 0.0283 0.0026

Saturn 61098-05-31 02:10 G 24036796.47 24036796.59 24036796.72 0.0284 0.0128

Saturn 61098-08-27 14:24 G 24036885.09 24036885.10 24036885.13 0.0284 0.0279

Jupiter 61100-05-05 05:31 G 24037500.63 24037500.73 24037500.83 0.0539 0.0363

Jupiter 61100-08-02 15:07 G 24037590.03 24037590.13 24037590.22 0.0536 0.0376

Earth 61101-04-22 12:58 G 24037852.94 24037853.04 24037853.14 0.2680 0.1274

Moon 61101-04-22 13:41 G 24037852.97 24037853.07 24037853.17 0.2676 0.1289 *

Venus 61102-07-07 19:12 G 24038294.21 24038294.30 24038294.40 0.3681 0.1142

Mars 61103-09-15 06:58 G 24038728.67 24038728.79 24038728.92 0.1634 0.0147

Earth 61103-10-24 11:31 G 24038767.85 24038767.98 24038768.11 0.2652 0.1290

Moon 61103-10-24 12:43 G 24038767.90 24038768.03 24038768.16 0.2649 0.1332 *

Jupiter 61106-09-15 12:14 G 24039824.86 24039825.01 24039825.17 0.0491 0.0243

Uranus 61108-01-19 14:38 G 24040316.05 24040316.11 24040316.17 0.0137 0.0122

Moon 61108-04-15 09:50 G 24040402.84 24040402.91 24040402.98 0.2690 0.2086

Earth 61108-04-15 10:05 G 24040402.85 24040402.92 24040402.98 0.2683 0.2126 *

Uranus 61108-04-16 18:00 G 24040404.16 24040404.25 24040404.34 0.0138 0.0102

Uranus 61108-07-13 21:36 G 24040492.29 24040492.40 24040492.51 0.0138 0.0081

Uranus 61108-10-10 00:58 G 24040580.42 24040580.54 24040580.67 0.0138 0.0061

Uranus 61109-01-06 04:34 G 24040668.56 24040668.69 24040668.82 0.0138 0.0040

Uranus 61109-04-04 08:10 G 24040756.70 24040756.84 24040756.97 0.0138 0.0020

Uranus 61109-07-01 11:31 G 24040844.85 24040844.98 24040845.12 0.0138 0.0002

Uranus 61109-09-27 15:07 G 24040932.99 24040933.13 24040933.26 0.0138 0.0021

Uranus 61109-12-24 18:29 G 24041021.14 24041021.27 24041021.40 0.0138 0.0041

Uranus 61110-03-22 21:50 G 24041109.29 24041109.41 24041109.53 0.0138 0.0061

Uranus 61110-06-19 01:12 G 24041197.45 24041197.55 24041197.66 0.0138 0.0081

Uranus 61110-09-15 04:34 G 24041285.61 24041285.69 24041285.79 0.0138 0.0101

Uranus 61110-12-12 07:55 G 24041373.78 24041373.83 24041373.90 0.0138 0.0122

Saturn 61111-12-29 10:19 G 24041755.85 24041755.93 24041756.02 0.0277 0.0242

Saturn 61112-03-27 05:46 G 24041844.57 24041844.74 24041844.91 0.0276 0.0062

Jupiter 61112-05-21 18:43 G 24041900.16 24041900.28 24041900.41 0.0537 0.0205

Saturn 61112-06-24 01:12 G 24041933.40 24041933.55 24041933.71 0.0276 0.0121

Mars 61113-02-04 16:34 G 24042159.08 24042159.19 24042159.31 0.1632 0.0690

Earth 61114-04-25 07:26 G 24042603.76 24042603.81 24042603.85 0.2678 0.2432

Moon 61114-04-25 07:41 G 24042603.78 24042603.82 24042603.85 0.2671 0.2516 *

Mars 61117-10-07 06:29 G 24043864.65 24043864.77 24043864.89 0.1888 0.1046

Jupiter 61118-07-04 11:17 G 24044134.80 24044134.97 24044135.15 0.0490 0.0052

Earth 61121-04-18 04:48 G 24045153.59 24045153.70 24045153.81 0.2682 0.0891

Moon 61121-04-18 05:17 G 24045153.61 24045153.72 24045153.83 0.2687 0.0863 *

Mars 61122-06-28 02:10 G 24045589.55 24045589.59 24045589.63 0.1629 0.1522

Earth 61123-10-19 09:50 G 24046067.85 24046067.91 24046067.97 0.2650 0.2369

Moon 61123-10-19 10:48 G 24046067.88 24046067.95 24046068.03 0.2654 0.2245 *

Jupiter 61124-03-09 22:19 G 24046210.30 24046210.43 24046210.57 0.0538 0.0030

Mars 61127-02-27 06:58 G 24047294.66 24047294.79 24047294.92 0.1891 0.0727

Saturn 61127-04-25 02:24 G 24047351.52 24047351.60 24047351.68 0.0282 0.0231

Saturn 61127-07-22 15:07 G 24047440.00 24047440.13 24047440.26 0.0283 0.0076

Saturn 61127-10-19 03:36 G 24047528.52 24047528.65 24047528.78 0.0283 0.0077

Saturn 61128-01-15 15:50 G 24047617.09 24047617.16 24047617.25 0.0284 0.0229

Jupiter 61130-04-22 10:34 G 24048444.77 24048444.94 24048445.11 0.0490 0.0136

Mars 61133-10-23 21:22 G 24049725.30 24049725.39 24049725.49 0.1637 0.1081

Earth 61134-04-20 23:31 G 24049904.36 24049904.48 24049904.59 0.2681 0.0324

Moon 61134-04-21 00:14 G 24049904.40 24049904.51 24049904.62 0.2682 0.0387 *

Jupiter 61135-12-28 01:26 G 24050520.44 24050520.56 24050520.69 0.0538 0.0161

Earth 61136-10-21 13:26 G 24050818.92 24050819.06 24050819.21 0.2651 0.0397

Moon 61136-10-21 15:07 G 24050818.98 24050819.13 24050819.28 0.2651 0.0308 *

Saturn 61141-08-14 05:17 G 24052576.57 24052576.72 24052576.88 0.0276 0.0115

Saturn 61141-11-11 00:58 G 24052665.37 24052665.54 24052665.71 0.0276 0.0067

Saturn 61142-02-07 20:53 G 24052754.30 24052754.37 24052754.44 0.0275 0.0251

Jupiter 61142-02-08 10:05 G 24052754.79 24052754.92 24052755.05 0.0490 0.0316

Jupiter 61142-05-09 12:00 G 24052844.94 24052845.00 24052845.08 0.0492 0.0450

Mars 61143-03-16 07:12 G 24053155.67 24053155.80 24053155.93 0.1635 0.0269

Venus 61144-01-15 15:50 G 24053461.02 24053461.16 24053461.29 0.3689 0.1392

Earth 61147-04-23 18:00 G 24054655.15 24054655.25 24054655.34 0.2679 0.1497

Moon 61147-04-23 18:29 G 24054655.18 24054655.27 24054655.36 0.2675 0.1590 *

Jupiter 61147-10-16 03:50 G 24054830.56 24054830.66 24054830.75 0.0538 0.0367

Venus 61148-01-13 09:07 G 24054919.83 24054919.88 24054919.93 0.3682 0.3135

Jupiter 61148-01-13 13:12 G 24054919.96 24054920.05 24054920.15 0.0536 0.0371

Uranus 61148-08-11 07:12 G 24055130.73 24055130.80 24055130.88 0.0141 0.0127

Uranus 61148-11-07 14:10 G 24055218.97 24055219.09 24055219.23 0.0141 0.0099

Uranus 61149-02-03 21:22 G 24055307.24 24055307.39 24055307.56 0.0140 0.0070

Uranus 61149-05-03 04:48 G 24055395.52 24055395.70 24055395.88 0.0140 0.0041

Uranus 61149-07-30 12:00 G 24055483.82 24055484.00 24055484.19 0.0140 0.0011

Earth 61149-10-24 17:46 G 24055570.12 24055570.24 24055570.36 0.2652 0.1668

Moon 61149-10-24 18:43 G 24055570.18 24055570.28 24055570.39 0.2648 0.1874 *

Uranus 61149-10-26 19:12 G 24055572.12 24055572.30 24055572.49 0.0140 0.0018

Uranus 61150-01-23 02:24 G 24055660.43 24055660.60 24055660.78 0.0140 0.0047

Uranus 61150-04-21 09:50 G 24055748.76 24055748.91 24055749.07 0.0140 0.0076

Uranus 61150-07-18 17:02 G 24055837.10 24055837.21 24055837.34 0.0140 0.0106

Uranus 61150-10-15 00:29 G 24055925.48 24055925.52 24055925.57 0.0140 0.0135

Mars 61152-08-05 16:48 G 24056586.08 24056586.20 24056586.32 0.1632 0.0554

Neptune 61153-06-05 06:14 G 24056889.70 24056889.76 24056889.84 0.0088 0.0081

Venus 61153-07-29 00:58 G 24056943.44 24056943.54 24056943.64 0.3682 0.0489

Neptune 61153-09-01 09:07 G 24056977.79 24056977.88 24056978.00 0.0088 0.0071

Neptune 61153-11-28 12:14 G 24057065.89 24057066.01 24057066.16 0.0088 0.0061

Neptune 61154-02-24 15:22 G 24057154.00 24057154.14 24057154.30 0.0088 0.0051

Jupiter 61154-02-25 10:48 G 24057154.80 24057154.95 24057155.10 0.0491 0.0253

Earth 61154-04-16 14:53 G 24057205.04 24057205.12 24057205.20 0.2683 0.1890

Moon 61154-04-16 14:53 G 24057205.05 24057205.12 24057205.20 0.2690 0.1959 *

Neptune 61154-05-23 18:43 G 24057242.12 24057242.28 24057242.45 0.0088 0.0040

Neptune 61154-08-19 21:50 G 24057330.24 24057330.41 24057330.59 0.0088 0.0030

Neptune 61154-11-16 00:58 G 24057418.36 24057418.54 24057418.73 0.0088 0.0020

Neptune 61155-02-12 04:19 G 24057506.49 24057506.68 24057506.86 0.0088 0.0009

Neptune 61155-05-11 07:26 G 24057594.62 24057594.81 24057594.99 0.0088 0.0001

Neptune 61155-08-07 10:34 G 24057682.76 24057682.94 24057683.12 0.0088 0.0012

Neptune 61155-11-03 13:41 G 24057770.89 24057771.07 24057771.25 0.0088 0.0022

Neptune 61156-01-30 16:48 G 24057859.03 24057859.20 24057859.38 0.0088 0.0033

Neptune 61156-04-27 19:55 G 24057947.18 24057947.33 24057947.50 0.0088 0.0043

Neptune 61156-07-24 23:02 G 24058035.33 24058035.46 24058035.62 0.0088 0.0054

Saturn 61156-09-11 05:46 G 24058083.69 24058083.74 24058083.80 0.0283 0.0257

Neptune 61156-10-21 02:24 G 24058123.48 24058123.60 24058123.73 0.0088 0.0064

Saturn 61156-12-08 18:43 G 24058172.15 24058172.28 24058172.41 0.0283 0.0102

Neptune 61157-01-17 05:17 G 24058211.65 24058211.72 24058211.84 0.0088 0.0076

Saturn 61157-03-07 07:12 G 24058260.67 24058260.80 24058260.94 0.0284 0.0052

Mars 61157-04-07 07:12 G 24058291.69 24058291.80 24058291.90 0.1888 0.1269

Neptune 61157-04-15 08:53 G 24058299.84 24058299.87 24058299.92 0.0088 0.0086

Saturn 61157-06-03 19:41 G 24058349.23 24058349.32 24058349.41 0.0284 0.0204

Venus 61159-02-11 16:34 G 24058967.11 24058967.19 24058967.28 0.3681 0.2095

Jupiter 61159-11-01 16:34 G 24059230.07 24059230.19 24059230.31 0.0537 0.0189

Moon 61160-04-25 12:29 G 24059405.99 24059406.02 24059406.04 0.2672 0.2595

Earth 61160-04-25 12:14 G 24059406.00 24059406.01 24059406.02 0.2678 0.2647 *

Mars 61161-12-27 02:24 G 24060016.53 24060016.60 24060016.66 0.1629 0.1383

Jupiter 61165-12-14 08:53 G 24061464.70 24061464.87 24061465.05 0.0490 0.0046

Mars 61166-08-28 07:12 G 24061721.66 24061721.80 24061721.94 0.1891 0.0540

Earth 61167-04-19 09:50 G 24061955.80 24061955.91 24061956.02 0.2682 0.0665

Moon 61167-04-19 10:19 G 24061955.82 24061955.93 24061956.04 0.2686 0.0545 *

Earth 61169-10-19 16:05 G 24062870.07 24062870.17 24062870.26 0.2650 0.2006

Moon 61169-10-19 17:17 G 24062870.12 24062870.22 24062870.32 0.2652 0.1868 *

Saturn 61171-01-01 07:26 G 24063308.66 24063308.81 24063308.96 0.0277 0.0145

Saturn 61171-03-31 02:53 G 24063397.44 24063397.62 24063397.79 0.0276 0.0036

Saturn 61171-06-27 22:34 G 24063486.33 24063486.44 24063486.55 0.0276 0.0219

Jupiter 61171-08-20 20:10 G 24063540.21 24063540.34 24063540.47 0.0538 0.0018

Mars 61173-04-23 21:36 G 24064152.32 24064152.40 24064152.48 0.1637 0.1217

Jupiter 61177-10-02 08:10 G 24065774.67 24065774.84 24065775.00 0.0490 0.0141

Earth 61180-04-21 04:19 G 24066706.57 24066706.68 24066706.79 0.2680 0.0539

Moon 61180-04-21 05:02 G 24066706.60 24066706.71 24066706.82 0.2681 0.0624 *

Mars 61182-09-14 07:12 G 24067582.68 24067582.80 24067582.93 0.1634 0.0406

Earth 61182-10-22 19:55 G 24067621.18 24067621.33 24067621.47 0.2651 0.0084

Moon 61182-10-22 21:22 G 24067621.24 24067621.39 24067621.54 0.2651 0.0200 *

Jupiter 61183-06-08 23:46 G 24067850.36 24067850.49 24067850.62 0.0538 0.0166

Saturn 61186-04-27 19:55 G 24068904.22 24068904.33 24068904.45 0.0283 0.0152

Saturn 61186-07-25 08:38 G 24068992.72 24068992.86 24068993.00 0.0283 0.0002

Saturn 61186-10-21 21:07 G 24069081.26 24069081.38 24069081.49 0.0284 0.0154

Jupiter 61189-07-21 07:26 G 24070084.68 24070084.81 24070084.94 0.0490 0.0326

Jupiter 61189-10-19 09:22 G 24070174.81 24070174.89 24070174.97 0.0491 0.0438

Mars 61192-02-04 16:48 G 24071013.08 24071013.20 24071013.33 0.1632 0.0421

Uranus 61192-02-08 21:22 G 24071017.32 24071017.39 24071017.46 0.0137 0.0118

Uranus 61192-05-07 00:43 G 24071105.44 24071105.53 24071105.63 0.0137 0.0098

Uranus 61192-08-03 04:19 G 24071193.57 24071193.68 24071193.80 0.0138 0.0077

Uranus 61192-10-30 07:55 G 24071281.71 24071281.83 24071281.96 0.0138 0.0057

Uranus 61193-01-26 11:17 G 24071369.85 24071369.97 24071370.11 0.0138 0.0037

Earth 61193-04-23 22:48 G 24071457.37 24071457.45 24071457.54 0.2679 0.1713

Moon 61193-04-23 23:17 G 24071457.39 24071457.47 24071457.56 0.2674 0.1743 *

Uranus 61193-04-24 14:53 G 24071457.99 24071458.12 24071458.26 0.0138 0.0016

Uranus 61193-07-21 18:29 G 24071546.13 24071546.27 24071546.40 0.0138 0.0005

Uranus 61193-10-17 21:50 G 24071634.28 24071634.41 24071634.54 0.0138 0.0025

Uranus 61194-01-14 01:12 G 24071722.43 24071722.55 24071722.68 0.0138 0.0045

Uranus 61194-04-12 04:48 G 24071810.58 24071810.70 24071810.82 0.0138 0.0065

Uranus 61194-07-09 08:10 G 24071898.74 24071898.84 24071898.95 0.0138 0.0085

Uranus 61194-10-05 11:31 G 24071986.90 24071986.98 24071987.07 0.0138 0.0105

Uranus 61195-01-01 14:53 G 24072075.07 24072075.12 24072075.18 0.0138 0.0126

Jupiter 61195-03-28 02:53 G 24072160.52 24072160.62 24072160.72 0.0539 0.0354

Jupiter 61195-06-25 12:14 G 24072249.92 24072250.01 24072250.10 0.0536 0.0384

Earth 61195-10-26 00:00 G 24072372.41 24072372.50 24072372.59 0.2653 0.2047

Moon 61195-10-26 00:58 G 24072372.44 24072372.54 24072372.63 0.2647 0.2044 *

Mars 61196-10-06 07:12 G 24072718.70 24072718.80 24072718.89 0.1887 0.1436

Moon 61200-04-16 20:10 G 24074007.24 24074007.34 24074007.43 0.2689 0.1588

Earth 61200-04-16 19:55 G 24074007.24 24074007.33 24074007.42 0.2683 0.1657 *

Saturn 61200-05-20 06:29 G 24074040.66 24074040.77 24074040.89 0.0277 0.0202

Saturn 61200-08-17 01:55 G 24074129.41 24074129.58 24074129.76 0.0276 0.0022

Venus 61200-08-21 16:48 G 24074134.06 24074134.20 24074134.34 0.3689 0.1070

Saturn 61200-11-13 21:36 G 24074218.26 24074218.40 24074218.55 0.0276 0.0161

Mars 61201-06-27 02:24 G 24074443.52 24074443.60 24074443.68 0.1629 0.1247

Jupiter 61201-08-07 08:38 G 24074484.71 24074484.86 24074485.01 0.0491 0.0250

Venus 61204-08-19 06:29 G 24075592.69 24075592.77 24075592.86 0.3682 0.2147

Mars 61206-02-26 07:41 G 24076148.68 24076148.82 24076148.96 0.1892 0.0333

Jupiter 61207-04-13 14:53 G 24076560.00 24076560.12 24076560.25 0.0537 0.0188

Venus 61210-03-04 22:19 G 24077616.33 24077616.43 24077616.54 0.3682 0.0488

Mars 61212-10-22 21:36 G 24078579.33 24078579.40 24078579.47 0.1637 0.1348

Earth 61213-04-19 14:38 G 24078758.00 24078758.11 24078758.23 0.2682 0.0437

Moon 61213-04-19 15:22 G 24078758.03 24078758.14 24078758.25 0.2686 0.0417 *

Jupiter 61213-05-26 07:26 G 24078794.64 24078794.81 24078794.99 0.0490 0.0057

Saturn 61215-09-14 23:17 G 24079636.36 24079636.47 24079636.58 0.0283 0.0181

Venus 61215-09-18 14:10 G 24079640.03 24079640.09 24079640.14 0.3681 0.3051

Earth 61215-10-20 22:05 G 24079672.31 24079672.42 24079672.54 0.2650 0.1654

Moon 61215-10-20 23:31 G 24079672.36 24079672.48 24079672.60 0.2652 0.1560 *

Saturn 61215-12-12 12:00 G 24079724.86 24079725.00 24079725.14 0.0283 0.0027

Saturn 61216-03-10 00:29 G 24079813.40 24079813.52 24079813.64 0.0284 0.0127

Saturn 61216-06-06 12:43 G 24079902.01 24079902.03 24079902.06 0.0284 0.0278

Jupiter 61219-01-30 18:00 G 24080870.12 24080870.25 24080870.39 0.0538 0.0013

Mars 61222-03-15 07:26 G 24082009.69 24082009.81 24082009.93 0.1635 0.0539

Jupiter 61225-03-14 05:46 G 24083104.57 24083104.74 24083104.91 0.0490 0.0145

Earth 61226-04-22 09:22 G 24083508.78 24083508.89 24083509.00 0.2680 0.0766

Moon 61226-04-22 10:05 G 24083508.81 24083508.92 24083509.02 0.2679 0.0879 *

Earth 61228-10-23 01:55 G 24084423.44 24084423.58 24084423.73 0.2651 0.0360

Moon 61228-10-23 03:22 G 24084423.50 24084423.64 24084423.79 0.2650 0.0468 *

Saturn 61229-10-07 08:53 G 24084772.77 24084772.87 24084772.96 0.0277 0.0230

Saturn 61230-01-04 04:05 G 24084861.50 24084861.67 24084861.84 0.0276 0.0051

Saturn 61230-04-02 23:31 G 24084950.33 24084950.48 24084950.64 0.0276 0.0132

Jupiter 61230-11-18 21:36 G 24085180.27 24085180.40 24085180.52 0.0539 0.0179

Mars 61231-08-05 17:02 G 24085440.08 24085440.21 24085440.33 0.1632 0.0284

Uranus 61232-08-31 13:55 G 24085832.00 24085832.08 24085832.19 0.0141 0.0120

Uranus 61232-11-27 21:22 G 24085920.26 24085920.39 24085920.53 0.0141 0.0091

Uranus 61233-02-24 04:34 G 24086008.53 24086008.69 24086008.86 0.0140 0.0062

Moon 61233-04-15 05:46 G 24086058.73 24086058.74 24086058.75 0.2690 0.2668

Earth 61233-04-15 06:00 G 24086058.74 24086058.75 24086058.76 0.2684 0.2670 *

Uranus 61233-05-23 11:46 G 24086096.81 24086096.99 24086097.17 0.0140 0.0033

Uranus 61233-08-19 18:58 G 24086185.11 24086185.29 24086185.48 0.0140 0.0005

Uranus 61233-11-16 02:24 G 24086273.41 24086273.60 24086273.78 0.0140 0.0025

Neptune 61234-01-05 04:48 G 24086323.70 24086323.70 24086323.71 0.0089 0.0089

Uranus 61234-02-12 09:22 G 24086361.73 24086361.89 24086362.07 0.0140 0.0055

Neptune 61234-04-03 06:29 G 24086411.71 24086411.77 24086411.83 0.0089 0.0081

Uranus 61234-05-11 16:48 G 24086450.06 24086450.20 24086450.35 0.0140 0.0084

Neptune 61234-06-30 07:55 G 24086499.75 24086499.83 24086499.91 0.0089 0.0072

Uranus 61234-08-08 00:14 G 24086538.41 24086538.51 24086538.62 0.0140 0.0113

Neptune 61234-09-26 09:22 G 24086587.80 24086587.89 24086587.99 0.0089 0.0064

Neptune 61234-12-23 10:48 G 24086675.85 24086675.95 24086676.06 0.0089 0.0056

Neptune 61235-03-21 12:14 G 24086763.91 24086764.01 24086764.14 0.0089 0.0049

Neptune 61235-06-17 13:55 G 24086851.96 24086852.08 24086852.21 0.0089 0.0040

Neptune 61235-09-13 15:22 G 24086940.02 24086940.14 24086940.27 0.0089 0.0032

Neptune 61235-12-10 16:48 G 24087028.07 24087028.20 24087028.34 0.0089 0.0024

Neptune 61236-03-07 18:29 G 24087116.13 24087116.27 24087116.40 0.0089 0.0016

Mars 61236-04-06 07:41 G 24087145.75 24087145.82 24087145.89 0.1888 0.1648

Neptune 61236-06-03 19:55 G 24087204.19 24087204.33 24087204.47 0.0089 0.0008

Neptune 61236-08-30 21:22 G 24087292.25 24087292.39 24087292.53 0.0089 0.0001

Neptune 61236-11-26 22:48 G 24087380.32 24087380.45 24087380.59 0.0089 0.0008

Jupiter 61236-12-31 05:02 G 24087414.59 24087414.71 24087414.84 0.0489 0.0329

Neptune 61237-02-23 00:14 G 24087468.38 24087468.51 24087468.65 0.0089 0.0016

Jupiter 61237-03-31 06:43 G 24087504.71 24087504.78 24087504.87 0.0491 0.0434

Neptune 61237-05-22 01:41 G 24087556.44 24087556.57 24087556.71 0.0089 0.0024

Neptune 61237-08-18 03:07 G 24087644.51 24087644.63 24087644.76 0.0089 0.0032

Neptune 61237-11-14 04:34 G 24087732.57 24087732.69 24087732.82 0.0089 0.0040

Neptune 61238-02-10 06:00 G 24087820.64 24087820.75 24087820.87 0.0089 0.0048

Neptune 61238-05-09 07:12 G 24087908.71 24087908.80 24087908.92 0.0089 0.0057

Neptune 61238-08-05 08:53 G 24087996.78 24087996.87 24087996.97 0.0089 0.0064

Neptune 61238-11-01 10:19 G 24088084.86 24088084.93 24088085.02 0.0089 0.0071

Neptune 61239-01-28 11:31 G 24088172.94 24088172.98 24088173.06 0.0089 0.0080

Earth 61239-04-25 03:50 G 24088259.58 24088259.66 24088259.73 0.2679 0.1934

Moon 61239-04-25 04:19 G 24088259.60 24088259.68 24088259.75 0.2673 0.1992 *

Neptune 61239-04-26 12:58 G 24088261.03 24088261.04 24088261.08 0.0089 0.0087

Mars 61240-12-26 02:24 G 24088870.51 24088870.60 24088870.70 0.1629 0.1112

Earth 61241-10-26 06:14 G 24089174.71 24089174.76 24089174.82 0.2653 0.2434

Moon 61241-10-26 07:12 G 24089174.77 24089174.80 24089174.83 0.2647 0.2582 *

Jupiter 61242-09-07 00:58 G 24089490.44 24089490.54 24089490.64 0.0539 0.0359

Jupiter 61242-12-05 10:34 G 24089579.85 24089579.94 24089580.03 0.0537 0.0381

Saturn 61245-02-01 00:29 G 24090368.45 24090368.52 24090368.60 0.0282 0.0232

Saturn 61245-04-30 13:12 G 24090456.92 24090457.05 24090457.19 0.0283 0.0078

Saturn 61245-07-28 01:55 G 24090545.44 24090545.58 24090545.71 0.0283 0.0076

Mars 61245-08-27 07:55 G 24090575.68 24090575.83 24090575.98 0.1891 0.0142

Saturn 61245-10-24 14:10 G 24090634.01 24090634.09 24090634.17 0.0284 0.0227

Earth 61246-04-18 00:58 G 24090809.44 24090809.54 24090809.64 0.2683 0.1422

Moon 61246-04-18 01:12 G 24090809.46 24090809.55 24090809.65 0.2689 0.1450 *

Jupiter 61249-01-17 05:46 G 24091814.59 24091814.74 24091814.90 0.0491 0.0241

Pluto 61249-03-06 22:48 G 24091863.42 24091863.45 24091863.51 0.0066 0.0063

Pluto 61249-06-02 23:31 G 24091951.41 24091951.48 24091951.58 0.0066 0.0052

Pluto 61249-08-30 00:29 G 24092039.41 24092039.52 24092039.63 0.0066 0.0041

Pluto 61249-11-26 00:43 G 24092127.42 24092127.53 24092127.67 0.0066 0.0031

Pluto 61250-02-22 01:26 G 24092215.43 24092215.56 24092215.71 0.0066 0.0021

Pluto 61250-05-21 02:10 G 24092303.46 24092303.59 24092303.74 0.0066 0.0010

Pluto 61250-08-17 02:53 G 24092391.48 24092391.62 24092391.77 0.0066 0.0003

Pluto 61250-11-13 03:36 G 24092479.51 24092479.65 24092479.79 0.0067 0.0013

Pluto 61251-02-09 04:05 G 24092567.54 24092567.67 24092567.81 0.0067 0.0024

Pluto 61251-05-08 04:34 G 24092655.58 24092655.69 24092655.83 0.0067 0.0035

Pluto 61251-08-04 05:17 G 24092743.63 24092743.72 24092743.84 0.0067 0.0046

Pluto 61251-10-31 06:14 G 24092831.69 24092831.76 24092831.83 0.0067 0.0056

Mars 61252-04-22 21:50 G 24093006.36 24093006.41 24093006.46 0.1637 0.1476

Jupiter 61254-09-23 13:55 G 24093889.96 24093890.08 24093890.20 0.0537 0.0201

Mars 61255-01-17 08:24 G 24094005.85 24094005.85 24094005.86 0.1895 0.1894

Venus 61257-03-28 18:00 G 24094807.22 24094807.25 24094807.28 0.3689 0.3592

Earth 61259-04-20 19:41 G 24095560.20 24095560.32 24095560.43 0.2681 0.0211

Moon 61259-04-20 20:24 G 24095560.23 24095560.35 24095560.46 0.2685 0.0110 *

Saturn 61259-05-24 02:53 G 24095593.46 24095593.62 24095593.78 0.0276 0.0111

Saturn 61259-08-20 22:19 G 24095682.26 24095682.43 24095682.60 0.0276 0.0070

Saturn 61259-11-17 18:14 G 24095771.19 24095771.26 24095771.32 0.0275 0.0254

Jupiter 61260-11-05 05:17 G 24096124.54 24096124.72 24096124.89 0.0490 0.0056

Venus 61261-03-26 04:05 G 24096265.57 24096265.67 24096265.77 0.3682 0.1155

Mars 61261-09-13 07:26 G 24096436.70 24096436.81 24096436.93 0.1635 0.0668

Earth 61261-10-21 04:19 G 24096474.55 24096474.68 24096474.81 0.2650 0.1292

Moon 61261-10-21 05:46 G 24096474.61 24096474.74 24096474.88 0.2652 0.1080 *

Jupiter 61266-07-12 16:34 G 24098200.06 24098200.19 24098200.32 0.0537 0.0007

Venus 61266-10-09 19:55 G 24098289.23 24098289.33 24098289.42 0.3681 0.1453

Mars 61271-02-03 17:02 G 24099867.09 24099867.21 24099867.34 0.1632 0.0154

Earth 61272-04-22 14:10 G 24100310.99 24100311.09 24100311.20 0.2680 0.0985

Moon 61272-04-22 14:53 G 24100311.02 24100311.12 24100311.23 0.2677 0.1009 *

Jupiter 61272-08-24 04:19 G 24100434.52 24100434.68 24100434.85 0.0490 0.0133

Saturn 61274-06-21 03:22 G 24101100.60 24101100.64 24101100.69 0.0283 0.0265

Saturn 61274-09-17 16:05 G 24101189.05 24101189.17 24101189.30 0.0283 0.0110

Earth 61274-10-24 08:10 G 24101225.70 24101225.84 24101225.99 0.2651 0.0721

Moon 61274-10-24 09:36 G 24101225.75 24101225.90 24101226.04 0.2648 0.0843 *

Saturn 61274-12-15 04:48 G 24101277.57 24101277.70 24101277.84 0.0284 0.0044

Saturn 61275-03-13 17:17 G 24101366.13 24101366.22 24101366.32 0.0284 0.0196

Mars 61275-10-06 08:10 G 24101572.82 24101572.84 24101572.86 0.1887 0.1862

Uranus 61275-12-03 00:43 G 24101630.51 24101630.53 24101630.56 0.0137 0.0133

Uranus 61276-02-29 04:05 G 24101718.61 24101718.67 24101718.76 0.0137 0.0114

Uranus 61276-05-27 07:55 G 24101806.73 24101806.83 24101806.93 0.0137 0.0092

Uranus 61276-08-23 11:17 G 24101894.86 24101894.97 24101895.09 0.0138 0.0072

Uranus 61276-11-19 14:53 G 24101983.00 24101983.12 24101983.25 0.0138 0.0052

Uranus 61277-02-15 18:29 G 24102071.14 24102071.27 24102071.40 0.0138 0.0031

Uranus 61277-05-14 21:50 G 24102159.28 24102159.41 24102159.55 0.0138 0.0012

Uranus 61277-08-11 01:26 G 24102247.42 24102247.56 24102247.70 0.0138 0.0009

Uranus 61277-11-07 04:48 G 24102335.57 24102335.70 24102335.84 0.0138 0.0030

Uranus 61278-02-03 08:10 G 24102423.72 24102423.84 24102423.97 0.0138 0.0050

Jupiter 61278-04-30 19:41 G 24102510.19 24102510.32 24102510.44 0.0538 0.0185

Uranus 61278-05-02 11:46 G 24102511.88 24102511.99 24102512.11 0.0138 0.0070

Uranus 61278-07-29 15:07 G 24102600.03 24102600.13 24102600.24 0.0138 0.0090

Uranus 61278-10-25 18:29 G 24102688.20 24102688.27 24102688.36 0.0138 0.0111

Uranus 61279-01-21 21:50 G 24102776.38 24102776.41 24102776.46 0.0138 0.0131

Moon 61279-04-16 10:48 G 24102860.91 24102860.95 24102860.99 0.2690 0.2508

Earth 61279-04-16 11:02 G 24102860.91 24102860.96 24102861.00 0.2684 0.2432 *

Mars 61280-06-26 02:38 G 24103297.51 24103297.61 24103297.71 0.1629 0.0971

Jupiter 61284-06-12 02:53 G 24104744.50 24104744.62 24104744.75 0.0489 0.0331

Jupiter 61284-09-10 04:48 G 24104834.61 24104834.70 24104834.78 0.0491 0.0431

Mars 61285-02-25 08:24 G 24105002.70 24105002.85 24105002.99 0.1891 0.0064

Earth 61285-04-25 08:38 G 24105061.80 24105061.86 24105061.93 0.2679 0.2150

Moon 61285-04-25 09:07 G 24105061.81 24105061.88 24105061.94 0.2673 0.2195 *

Saturn 61288-10-10 05:02 G 24106325.56 24106325.71 24106325.86 0.0277 0.0140

Saturn 61289-01-07 00:29 G 24106414.34 24106414.52 24106414.69 0.0276 0.0041

Saturn 61289-04-05 19:55 G 24106503.24 24106503.33 24106503.44 0.0276 0.0224

Jupiter 61290-02-16 22:48 G 24106820.36 24106820.45 24106820.55 0.0539 0.0371

Jupiter 61290-05-17 08:24 G 24106909.76 24106909.85 24106909.95 0.0537 0.0372

Mars 61291-10-22 21:50 G 24107433.39 24107433.41 24107433.43 0.1637 0.1609

Earth 61292-04-18 06:00 G 24107611.64 24107611.75 24107611.85 0.2682 0.1198

Moon 61292-04-18 06:14 G 24107611.66 24107611.76 24107611.87 0.2688 0.1095 *

Mars 61294-07-18 08:53 G 24108432.81 24108432.87 24108432.93 0.1895 0.1691

Jupiter 61296-06-29 03:36 G 24109144.50 24109144.65 24109144.81 0.0491 0.0239

Mars 61301-03-15 07:41 G 24110863.71 24110863.82 24110863.93 0.1634 0.0802

Jupiter 61302-03-06 12:14 G 24111219.89 24111220.01 24111220.13 0.0537 0.0200

Saturn 61304-02-05 17:31 G 24111921.12 24111921.23 24111921.35 0.0282 0.0160

Saturn 61304-05-04 06:14 G 24112009.62 24112009.76 24112009.90 0.0283 0.0007

Saturn 61304-07-31 18:43 G 24112098.16 24112098.28 24112098.40 0.0283 0.0146

Earth 61305-04-22 00:29 G 24112362.41 24112362.52 24112362.64 0.2681 0.0089

Moon 61305-04-22 01:12 G 24112362.44 24112362.55 24112362.67 0.2683 0.0090 *

Earth 61307-10-23 10:34 G 24113276.80 24113276.94 24113277.08 0.2650 0.0931

Moon 61307-10-23 12:00 G 24113276.86 24113277.00 24113277.14 0.2652 0.0863 *

Jupiter 61308-04-18 02:53 G 24113454.44 24113454.62 24113454.79 0.0490 0.0050

Venus 61308-04-19 13:12 G 24113455.91 24113456.05 24113456.18 0.3689 0.1305

Mars 61310-08-05 17:17 G 24114294.09 24114294.22 24114294.35 0.1632 0.0043

Venus 61312-04-17 09:36 G 24114914.84 24114914.90 24114914.97 0.3682 0.2811

Jupiter 61313-12-23 15:50 G 24115530.02 24115530.16 24115530.29 0.0538 0.0026

Uranus 61316-09-21 20:53 G 24116533.28 24116533.37 24116533.50 0.0141 0.0113

Uranus 61316-12-19 04:19 G 24116621.54 24116621.68 24116621.83 0.0141 0.0084

Uranus 61317-03-17 11:31 G 24116709.81 24116709.98 24116710.15 0.0140 0.0055

Uranus 61317-06-13 18:43 G 24116798.10 24116798.28 24116798.46 0.0140 0.0026

Uranus 61317-09-10 01:55 G 24116886.40 24116886.58 24116886.77 0.0140 0.0004

Venus 61317-11-01 01:26 G 24116938.46 24116938.56 24116938.67 0.3682 0.0233

Neptune 61317-12-05 01:41 G 24116972.55 24116972.57 24116972.62 0.0088 0.0086

Uranus 61317-12-07 09:07 G 24116974.71 24116974.88 24116975.07 0.0140 0.0033

Saturn 61318-02-28 03:07 G 24117057.52 24117057.63 24117057.75 0.0277 0.0206

Neptune 61318-03-03 04:34 G 24117060.62 24117060.69 24117060.80 0.0088 0.0077

Uranus 61318-03-05 16:19 G 24117063.02 24117063.18 24117063.36 0.0140 0.0062

Earth 61318-04-24 19:12 G 24117113.20 24117113.30 24117113.40 0.2680 0.1209

Moon 61318-04-24 19:55 G 24117113.23 24117113.33 24117113.42 0.2676 0.1349 *

Saturn 61318-05-27 22:34 G 24117146.27 24117146.44 24117146.62 0.0276 0.0026

Neptune 61318-05-30 07:41 G 24117148.72 24117148.82 24117148.96 0.0088 0.0066

Uranus 61318-06-01 23:46 G 24117151.36 24117151.49 24117151.64 0.0140 0.0091

Saturn 61318-08-24 18:14 G 24117235.12 24117235.26 24117235.41 0.0276 0.0157

Neptune 61318-08-26 11:17 G 24117236.83 24117236.97 24117237.11 0.0088 0.0055

Uranus 61318-08-29 06:58 G 24117239.71 24117239.79 24117239.90 0.0140 0.0121

Neptune 61318-11-22 14:10 G 24117324.94 24117325.09 24117325.26 0.0088 0.0045

Neptune 61319-02-18 17:17 G 24117413.06 24117413.22 24117413.40 0.0088 0.0035

Neptune 61319-05-17 20:38 G 24117501.18 24117501.36 24117501.54 0.0088 0.0025

Neptune 61319-08-13 23:46 G 24117589.31 24117589.49 24117589.67 0.0088 0.0014

Neptune 61319-11-10 02:53 G 24117677.44 24117677.62 24117677.81 0.0088 0.0004

Mars 61319-12-27 02:53 G 24117724.51 24117724.62 24117724.73 0.1630 0.0837

Jupiter 61320-02-05 02:24 G 24117764.43 24117764.60 24117764.77 0.0490 0.0133

Neptune 61320-02-06 06:00 G 24117765.57 24117765.75 24117765.94 0.0088 0.0007

Neptune 61320-05-04 09:07 G 24117853.70 24117853.88 24117854.07 0.0088 0.0017

Neptune 61320-07-31 12:29 G 24117941.84 24117942.02 24117942.19 0.0088 0.0028

Earth 61320-10-25 14:24 G 24118027.97 24118028.10 24118028.24 0.2652 0.1095

Moon 61320-10-25 15:36 G 24118028.02 24118028.15 24118028.29 0.2647 0.1257 *

Neptune 61320-10-27 15:22 G 24118029.98 24118030.14 24118030.32 0.0088 0.0038

Neptune 61321-01-23 18:43 G 24118118.13 24118118.28 24118118.44 0.0088 0.0049

Neptune 61321-04-21 21:50 G 24118206.28 24118206.41 24118206.55 0.0088 0.0059

Neptune 61321-07-19 00:43 G 24118294.44 24118294.53 24118294.66 0.0088 0.0071

Neptune 61321-10-15 04:19 G 24118382.61 24118382.68 24118382.76 0.0088 0.0081

Venus 61323-05-17 17:17 G 24118962.15 24118962.22 24118962.30 0.3681 0.2426

Mars 61324-08-27 08:38 G 24119429.72 24119429.86 24119430.01 0.1892 0.0257

Moon 61325-04-17 15:50 G 24119663.10 24119663.16 24119663.23 0.2690 0.2206

Earth 61325-04-17 16:05 G 24119663.10 24119663.17 24119663.23 0.2684 0.2199 *

Jupiter 61325-10-11 18:14 G 24119840.14 24119840.26 24119840.39 0.0538 0.0180

Earth 61331-04-27 13:26 G 24121864.01 24121864.06 24121864.11 0.2679 0.2370

Moon 61331-04-27 13:41 G 24121864.02 24121864.07 24121864.12 0.2672 0.2344 *

Jupiter 61331-11-24 01:41 G 24122074.44 24122074.57 24122074.70 0.0490 0.0317

Jupiter 61332-02-22 03:22 G 24122164.58 24122164.64 24122164.72 0.0491 0.0447

Saturn 61333-06-24 19:55 G 24122653.23 24122653.33 24122653.43 0.0283 0.0198

Saturn 61333-09-21 08:38 G 24122741.73 24122741.86 24122742.00 0.0283 0.0044

Saturn 61333-12-18 21:07 G 24122830.26 24122830.38 24122830.51 0.0284 0.0110

Mars 61334-01-17 09:22 G 24122859.80 24122859.89 24122859.98 0.1895 0.1483

Saturn 61334-03-17 09:36 G 24122918.85 24122918.90 24122918.96 0.0284 0.0261

Pluto 61336-12-10 18:43 G 24123918.18 24123918.28 24123918.39 0.0078 0.0061

Pluto 61337-03-08 20:38 G 24124006.22 24124006.36 24124006.52 0.0078 0.0040

Pluto 61337-06-04 22:48 G 24124094.28 24124094.45 24124094.62 0.0078 0.0019

Jupiter 61337-07-30 21:07 G 24124150.29 24124150.38 24124150.48 0.0539 0.0372

Pluto 61337-09-01 00:58 G 24124182.36 24124182.54 24124182.71 0.0077 0.0003

Jupiter 61337-10-28 06:58 G 24124239.69 24124239.79 24124239.88 0.0536 0.0370

Pluto 61337-11-28 02:38 G 24124270.45 24124270.61 24124270.79 0.0077 0.0024

Pluto 61338-02-24 04:34 G 24124358.56 24124358.69 24124358.85 0.0077 0.0045

Earth 61338-04-20 10:48 G 24124413.85 24124413.95 24124414.06 0.2682 0.0962

Moon 61338-04-20 11:17 G 24124413.87 24124413.97 24124414.08 0.2688 0.0954 *

Pluto 61338-05-23 06:29 G 24124446.70 24124446.77 24124446.88 0.0077 0.0065

Mars 61340-09-13 07:41 G 24125290.72 24125290.82 24125290.93 0.1635 0.0934

Earth 61340-10-20 13:12 G 24125328.01 24125328.05 24125328.09 0.2649 0.2525

Moon 61340-10-20 14:24 G 24125328.05 24125328.10 24125328.14 0.2653 0.2500 *

Jupiter 61343-12-11 01:41 G 24126474.42 24126474.57 24126474.72 0.0490 0.0240

Saturn 61347-07-18 05:17 G 24127789.64 24127789.72 24127789.81 0.0277 0.0235

Saturn 61347-10-15 00:43 G 24127878.36 24127878.53 24127878.70 0.0277 0.0056

Saturn 61348-01-11 20:10 G 24127967.19 24127967.34 24127967.50 0.0276 0.0127

Jupiter 61349-08-16 10:19 G 24128549.81 24128549.93 24128550.06 0.0538 0.0192

Mars 61350-02-03 17:17 G 24128721.10 24128721.22 24128721.35 0.1632 0.0133

Earth 61351-04-23 05:31 G 24129164.62 24129164.73 24129164.84 0.2681 0.0246

Moon 61351-04-23 06:14 G 24129164.65 24129164.76 24129164.87 0.2681 0.0390 *

Earth 61353-10-23 16:48 G 24130079.05 24130079.20 24130079.34 0.2650 0.0577

Moon 61353-10-23 18:00 G 24130079.11 24130079.25 24130079.40 0.2650 0.0346 *

Jupiter 61355-09-29 00:58 G 24130784.36 24130784.54 24130784.71 0.0490 0.0053

Mars 61359-06-27 02:53 G 24132151.51 24132151.62 24132151.74 0.1629 0.0702

Uranus 61359-12-24 07:26 G 24132331.78 24132331.81 24132331.87 0.0137 0.0130

Uranus 61360-03-21 11:17 G 24132419.89 24132419.97 24132420.06 0.0137 0.0108

Uranus 61360-06-17 14:53 G 24132508.02 24132508.12 24132508.23 0.0137 0.0088

Uranus 61360-09-13 18:14 G 24132596.15 24132596.26 24132596.39 0.0138 0.0068

Uranus 61360-12-10 21:50 G 24132684.29 24132684.41 24132684.54 0.0138 0.0047

Uranus 61361-03-09 01:26 G 24132772.43 24132772.56 24132772.69 0.0138 0.0027

Jupiter 61361-06-04 14:10 G 24132859.95 24132860.09 24132860.22 0.0538 0.0023

Uranus 61361-06-05 05:02 G 24132860.57 24132860.71 24132860.84 0.0138 0.0007

Uranus 61361-09-01 08:24 G 24132948.72 24132948.85 24132948.99 0.0138 0.0014

Uranus 61361-11-28 11:46 G 24133036.86 24133036.99 24133037.13 0.0138 0.0035

Uranus 61362-02-24 15:22 G 24133125.02 24133125.14 24133125.26 0.0138 0.0054

Uranus 61362-05-23 18:43 G 24133213.17 24133213.28 24133213.40 0.0138 0.0075

Uranus 61362-08-19 22:05 G 24133301.33 24133301.42 24133301.52 0.0138 0.0095

Saturn 61362-11-11 21:22 G 24133385.33 24133385.39 24133385.46 0.0282 0.0247

Uranus 61362-11-16 01:26 G 24133389.50 24133389.56 24133389.64 0.0138 0.0115

Saturn 61363-02-08 10:05 G 24133473.79 24133473.92 24133474.05 0.0282 0.0094

Uranus 61363-02-12 05:02 G 24133477.68 24133477.71 24133477.74 0.0138 0.0135

Saturn 61363-05-07 22:48 G 24133562.31 24133562.45 24133562.58 0.0283 0.0059

Saturn 61363-08-04 11:02 G 24133650.88 24133650.96 24133651.06 0.0283 0.0211

Mars 61364-02-26 09:07 G 24133856.73 24133856.88 24133857.02 0.1891 0.0457

Earth 61364-04-25 00:00 G 24133915.41 24133915.50 24133915.60 0.2680 0.1430

Moon 61364-04-25 00:43 G 24133915.44 24133915.53 24133915.63 0.2676 0.1435 *

Venus 61364-11-24 14:24 G 24134128.96 24134129.10 24134129.24 0.3689 0.1183

Earth 61366-10-26 20:38 G 24134830.24 24134830.36 24134830.49 0.2652 0.1463

Moon 61366-10-26 21:50 G 24134830.29 24134830.41 24134830.53 0.2647 0.1515 *

Jupiter 61367-07-18 00:14 G 24135094.34 24135094.51 24135094.67 0.0490 0.0135

Mars 61368-11-16 12:14 G 24135581.97 24135582.01 24135582.05 0.1627 0.1532

Venus 61368-11-22 07:12 G 24135587.71 24135587.80 24135587.89 0.3682 0.1810

Moon 61371-04-18 21:07 G 24136465.30 24136465.38 24136465.46 0.2690 0.1943

Earth 61371-04-18 20:53 G 24136465.30 24136465.37 24136465.45 0.2683 0.1965 *

Jupiter 61373-03-23 17:31 G 24137170.10 24137170.23 24137170.35 0.0538 0.0164

Mars 61373-07-18 09:22 G 24137286.79 24137286.89 24137286.99 0.1895 0.1320

Venus 61374-06-07 23:02 G 24137611.36 24137611.46 24137611.56 0.3681 0.0812

Saturn 61377-03-02 22:19 G 24138610.28 24138610.43 24138610.59 0.0277 0.0126

Earth 61377-04-27 18:29 G 24138666.24 24138666.27 24138666.30 0.2679 0.2582

Moon 61377-04-27 18:29 G 24138666.25 24138666.27 24138666.29 0.2672 0.2630 *

Saturn 61377-05-30 17:46 G 24138699.07 24138699.24 24138699.41 0.0276 0.0056

Saturn 61377-08-27 13:26 G 24138787.98 24138788.06 24138788.15 0.0276 0.0239

Jupiter 61379-05-05 23:46 G 24139404.36 24139404.49 24139404.63 0.0489 0.0314

Jupiter 61379-08-04 01:41 G 24139494.50 24139494.57 24139494.64 0.0491 0.0449

Venus 61379-12-22 14:53 G 24139635.08 24139635.12 24139635.15 0.3681 0.3393

Mars 61380-03-14 07:55 G 24139717.73 24139717.83 24139717.92 0.1635 0.1065

Earth 61384-04-20 15:50 G 24141216.05 24141216.16 24141216.27 0.2682 0.0738

Moon 61384-04-20 16:19 G 24141216.07 24141216.18 24141216.29 0.2687 0.0649 *

Jupiter 61385-01-09 20:10 G 24141480.24 24141480.34 24141480.44 0.0539 0.0361

Jupiter 61385-04-09 05:46 G 24141569.65 24141569.74 24141569.83 0.0536 0.0379

Earth 61386-10-21 19:12 G 24142130.22 24142130.30 24142130.38 0.2649 0.2179

Moon 61386-10-21 20:24 G 24142130.26 24142130.35 24142130.45 0.2653 0.1973 *

Mars 61389-08-04 17:31 G 24143148.10 24143148.23 24143148.35 0.1632 0.0254

Jupiter 61391-05-23 00:29 G 24143804.38 24143804.52 24143804.68 0.0491 0.0258

Saturn 61392-06-27 12:14 G 24144205.89 24144206.01 24144206.13 0.0283 0.0135

Saturn 61392-09-24 00:58 G 24144294.40 24144294.54 24144294.68 0.0283 0.0019

Saturn 61392-12-21 13:12 G 24144382.95 24144383.05 24144383.17 0.0284 0.0171

Jupiter 61397-01-26 08:53 G 24145879.75 24145879.87 24145880.00 0.0537 0.0197

Earth 61397-04-23 10:34 G 24145966.82 24145966.94 24145967.05 0.2681 0.0482

Moon 61397-04-23 11:17 G 24145966.86 24145966.97 24145967.08 0.2680 0.0512 *

Neptune 61398-10-03 04:19 G 24146494.65 24146494.68 24146494.73 0.0089 0.0085

Mars 61398-12-26 03:07 G 24146578.51 24146578.63 24146578.75 0.1629 0.0565

Neptune 61398-12-30 06:00 G 24146582.69 24146582.75 24146582.83 0.0089 0.0076

Neptune 61399-03-28 07:26 G 24146670.73 24146670.81 24146670.91 0.0089 0.0068

Neptune 61399-06-24 08:53 G 24146758.78 24146758.87 24146758.99 0.0089 0.0060

Neptune 61399-09-20 10:48 G 24146846.84 24146846.95 24146847.06 0.0089 0.0052

Earth 61399-10-24 22:48 G 24146881.30 24146881.45 24146881.60 0.2651 0.0212

Moon 61399-10-25 00:14 G 24146881.36 24146881.51 24146881.66 0.2649 0.0169 *

Neptune 61399-12-17 12:14 G 24146934.89 24146935.01 24146935.13 0.0089 0.0044

Neptune 61400-03-15 13:41 G 24147022.95 24147023.07 24147023.20 0.0089 0.0035

Neptune 61400-06-11 15:07 G 24147111.00 24147111.13 24147111.27 0.0089 0.0028

Uranus 61400-07-16 20:53 G 24147146.33 24147146.37 24147146.44 0.0141 0.0134

Neptune 61400-09-07 16:48 G 24147199.06 24147199.20 24147199.33 0.0089 0.0019

Uranus 61400-10-13 04:19 G 24147234.56 24147234.68 24147234.80 0.0141 0.0105

Neptune 61400-12-04 18:14 G 24147287.12 24147287.26 24147287.40 0.0089 0.0011

Uranus 61401-01-09 11:17 G 24147322.83 24147322.97 24147323.13 0.0140 0.0076

Neptune 61401-03-02 19:41 G 24147375.18 24147375.32 24147375.46 0.0089 0.0003

Uranus 61401-04-07 18:29 G 24147411.10 24147411.27 24147411.45 0.0140 0.0047

Neptune 61401-05-29 21:07 G 24147463.25 24147463.38 24147463.52 0.0089 0.0005

Uranus 61401-07-05 01:55 G 24147499.39 24147499.58 24147499.76 0.0140 0.0018

Neptune 61401-08-25 22:34 G 24147551.31 24147551.44 24147551.58 0.0089 0.0013

Uranus 61401-10-01 09:07 G 24147587.69 24147587.88 24147588.06 0.0140 0.0011

Neptune 61401-11-22 00:00 G 24147639.37 24147639.50 24147639.64 0.0089 0.0021

Uranus 61401-12-28 16:19 G 24147676.00 24147676.18 24147676.36 0.0140 0.0040

Neptune 61402-02-18 01:26 G 24147727.44 24147727.56 24147727.69 0.0089 0.0029

Uranus 61402-03-26 23:46 G 24147764.32 24147764.49 24147764.65 0.0140 0.0070

Neptune 61402-05-17 03:07 G 24147815.50 24147815.63 24147815.75 0.0089 0.0037

Uranus 61402-06-23 06:43 G 24147852.66 24147852.78 24147852.92 0.0140 0.0099

Neptune 61402-08-13 04:19 G 24147903.57 24147903.68 24147903.80 0.0089 0.0045

Uranus 61402-09-19 14:24 G 24147941.03 24147941.10 24147941.17 0.0140 0.0128

Neptune 61402-11-09 05:46 G 24147991.64 24147991.74 24147991.86 0.0089 0.0052

Neptune 61403-02-05 07:12 G 24148079.71 24148079.80 24148079.91 0.0089 0.0060

Jupiter 61403-03-11 23:02 G 24148114.29 24148114.46 24148114.64 0.0490 0.0058

Neptune 61403-05-04 08:38 G 24148167.78 24148167.86 24148167.95 0.0089 0.0068

Neptune 61403-07-31 09:50 G 24148255.86 24148255.91 24148256.00 0.0089 0.0076

Mars 61403-08-28 09:22 G 24148283.75 24148283.89 24148284.03 0.1891 0.0642

Neptune 61403-10-27 11:31 G 24148343.94 24148343.98 24148344.03 0.0089 0.0083

Saturn 61406-07-22 00:00 G 24149342.36 24149342.50 24149342.64 0.0277 0.0159

Saturn 61406-10-18 19:26 G 24149431.13 24149431.31 24149431.48 0.0277 0.0022

Saturn 61407-01-15 14:53 G 24149520.01 24149520.12 24149520.25 0.0276 0.0205

Mars 61408-05-18 12:29 G 24150008.96 24150009.02 24150009.09 0.1627 0.1390

Jupiter 61408-11-15 12:14 G 24150189.88 24150190.01 24150190.14 0.0538 0.0013

Earth 61410-04-27 05:02 G 24150717.62 24150717.71 24150717.80 0.2680 0.1648

Moon 61410-04-27 05:31 G 24150717.65 24150717.73 24150717.81 0.2675 0.1766 *

Earth 61412-10-28 02:53 G 24151632.52 24151632.62 24151632.73 0.2652 0.1841

Moon 61412-10-28 04:05 G 24151632.57 24151632.67 24151632.77 0.2647 0.2022 *

Mars 61413-01-17 10:05 G 24151713.80 24151713.92 24151714.03 0.1895 0.1101

Jupiter 61414-12-28 22:34 G 24152424.27 24152424.44 24152424.61 0.0489 0.0127

Venus 61415-12-17 09:36 G 24152777.87 24152777.90 24152777.93 0.3688 0.3589

Earth 61417-04-20 01:55 G 24153267.49 24153267.58 24153267.67 0.2683 0.1732

Moon 61417-04-20 02:10 G 24153267.50 24153267.59 24153267.68 0.2690 0.1750 *

Mars 61419-09-14 07:55 G 24154144.75 24154144.83 24154144.92 0.1634 0.1194

Venus 61419-12-15 12:43 G 24154237.00 24154237.03 24154237.06 0.3683 0.3480

Jupiter 61420-09-03 15:50 G 24154500.04 24154500.16 24154500.29 0.0539 0.0164

Saturn 61421-11-15 13:41 G 24154937.97 24154938.07 24154938.18 0.0282 0.0184

Saturn 61422-02-12 02:24 G 24155026.46 24155026.60 24155026.74 0.0282 0.0031

Saturn 61422-05-11 14:53 G 24155115.00 24155115.12 24155115.24 0.0283 0.0120

Saturn 61422-08-08 03:07 G 24155203.60 24155203.63 24155203.67 0.0283 0.0270

Venus 61425-06-30 04:48 G 24156260.59 24156260.70 24156260.80 0.3682 0.0828

Jupiter 61426-10-16 21:50 G 24156734.28 24156734.41 24156734.55 0.0489 0.0311

Jupiter 61427-01-14 23:46 G 24156824.42 24156824.49 24156824.55 0.0491 0.0450

Mars 61429-02-03 17:31 G 24157575.11 24157575.23 24157575.36 0.1632 0.0384

Earth 61430-04-22 20:38 G 24158018.25 24158018.36 24158018.48 0.2682 0.0511

Moon 61430-04-22 21:22 G 24158018.28 24158018.39 24158018.50 0.2686 0.0434 *

Venus 61431-01-13 20:24 G 24158284.26 24158284.35 24158284.44 0.3681 0.1794

Jupiter 61432-06-22 19:12 G 24158810.20 24158810.30 24158810.41 0.0539 0.0346

Jupiter 61432-09-20 04:48 G 24158899.62 24158899.70 24158899.79 0.0537 0.0397

Earth 61432-10-23 01:26 G 24158932.45 24158932.56 24158932.67 0.2649 0.1818

Moon 61432-10-23 02:38 G 24158932.50 24158932.61 24158932.72 0.2653 0.1760 *

Saturn 61435-12-08 21:22 G 24160074.30 24160074.39 24160074.49 0.0277 0.0232

Saturn 61436-03-06 16:48 G 24160163.03 24160163.20 24160163.37 0.0277 0.0052

Saturn 61436-06-03 12:14 G 24160251.86 24160252.01 24160252.17 0.0276 0.0130

Mars 61438-06-27 03:07 G 24161005.51 24161005.63 24161005.76 0.1630 0.0431

Jupiter 61438-08-04 21:50 G 24161044.40 24161044.41 24161044.42 0.0489 0.0487

Jupiter 61438-11-02 23:02 G 24161134.31 24161134.46 24161134.61 0.0491 0.0264

Mars 61443-02-26 09:50 G 24162710.78 24162710.91 24162711.04 0.1892 0.0857

Earth 61443-04-25 15:22 G 24162769.03 24162769.14 24162769.25 0.2681 0.0693

Moon 61443-04-25 16:05 G 24162769.07 24162769.17 24162769.28 0.2680 0.0828 *

Uranus 61444-01-14 14:53 G 24163033.07 24163033.12 24163033.18 0.0137 0.0123

Uranus 61444-04-11 18:29 G 24163121.18 24163121.27 24163121.36 0.0137 0.0103

Uranus 61444-07-08 22:05 G 24163209.31 24163209.42 24163209.53 0.0137 0.0082

Jupiter 61444-07-09 07:55 G 24163209.71 24163209.83 24163209.95 0.0537 0.0209

Uranus 61444-10-05 01:41 G 24163297.45 24163297.57 24163297.69 0.0138 0.0062

Uranus 61445-01-01 05:02 G 24163385.59 24163385.71 24163385.85 0.0138 0.0042

Uranus 61445-03-30 08:38 G 24163473.73 24163473.86 24163474.00 0.0138 0.0021

Uranus 61445-06-26 12:14 G 24163561.87 24163562.01 24163562.14 0.0138 0.0003

Uranus 61445-09-22 15:36 G 24163650.02 24163650.15 24163650.29 0.0138 0.0020

Earth 61445-10-26 05:02 G 24163683.56 24163683.71 24163683.86 0.2651 0.0154

Moon 61445-10-26 06:29 G 24163683.62 24163683.77 24163683.92 0.2648 0.0395 *

Uranus 61445-12-19 18:58 G 24163738.17 24163738.29 24163738.43 0.0138 0.0040

Uranus 61446-03-17 22:34 G 24163826.32 24163826.44 24163826.56 0.0138 0.0060

Uranus 61446-06-14 01:55 G 24163914.47 24163914.58 24163914.69 0.0138 0.0080

Uranus 61446-09-10 05:17 G 24164002.64 24164002.72 24164002.82 0.0138 0.0100

Uranus 61446-12-07 08:38 G 24164090.81 24164090.86 24164090.93 0.0138 0.0121

Mars 61447-11-17 12:29 G 24164435.94 24164436.02 24164436.11 0.1627 0.1255

Jupiter 61450-08-21 22:19 G 24165444.25 24165444.43 24165444.60 0.0490 0.0076

Saturn 61451-04-04 15:07 G 24165670.06 24165670.13 24165670.21 0.0282 0.0232

Saturn 61451-07-02 04:05 G 24165758.53 24165758.67 24165758.80 0.0283 0.0078

Saturn 61451-09-28 16:34 G 24165847.06 24165847.19 24165847.33 0.0283 0.0075

Saturn 61451-12-26 05:02 G 24165935.63 24165935.71 24165935.79 0.0284 0.0226

Mars 61452-07-18 10:19 G 24166140.80 24166140.93 24166141.06 0.1895 0.0909

Earth 61456-04-27 09:50 G 24167519.83 24167519.91 24167519.99 0.2680 0.1867

Jupiter 61456-04-27 11:17 G 24167519.83 24167519.97 24167520.10 0.0538 0.0029 *

Moon 61456-04-27 10:19 G 24167519.85 24167519.93 24167520.01 0.2674 0.1849 *

Earth 61458-10-29 09:07 G 24168434.80 24168434.88 24168434.96 0.2652 0.2213

Moon 61458-10-29 10:05 G 24168434.84 24168434.92 24168435.00 0.2647 0.2206 *

Mars 61459-03-15 08:10 G 24168571.76 24168571.84 24168571.91 0.1635 0.1328

Jupiter 61462-06-09 21:07 G 24169754.21 24169754.38 24169754.55 0.0489 0.0119

Earth 61463-04-21 06:58 G 24170069.69 24170069.79 24170069.88 0.2683 0.1500

Moon 61463-04-21 07:12 G 24170069.70 24170069.80 24170069.89 0.2690 0.1431 *

Saturn 61465-04-26 22:48 G 24170806.41 24170806.45 24170806.49 0.0278 0.0269

Saturn 61465-07-24 18:00 G 24170895.09 24170895.25 24170895.42 0.0277 0.0089

Saturn 61465-10-21 13:26 G 24170983.90 24170984.06 24170984.23 0.0277 0.0093

Jupiter 61468-02-14 14:10 G 24171829.97 24171830.09 24171830.22 0.0539 0.0166

Mars 61468-08-04 17:46 G 24172002.12 24172002.24 24172002.36 0.1632 0.0518

Venus 61472-07-23 10:34 G 24173450.80 24173450.94 24173451.08 0.3689 0.1183

Jupiter 61474-03-28 20:38 G 24174064.23 24174064.36 24174064.50 0.0489 0.0299

Jupiter 61474-06-26 22:05 G 24174154.37 24174154.42 24174154.48 0.0491 0.0461

Earth 61476-04-23 01:41 G 24174820.46 24174820.57 24174820.68 0.2682 0.0279

Moon 61476-04-23 02:24 G 24174820.49 24174820.60 24174820.71 0.2684 0.0224 *

Venus 61476-07-21 10:19 G 24174909.85 24174909.93 24174910.01 0.3682 0.2479

Mars 61477-12-26 03:22 G 24175432.51 24175432.64 24175432.76 0.1629 0.0301

Earth 61478-10-24 07:26 G 24175734.69 24175734.81 24175734.94 0.2650 0.1466

Moon 61478-10-24 08:53 G 24175734.74 24175734.87 24175735.00 0.2651 0.1300 *

Jupiter 61479-12-03 17:46 G 24176140.14 24176140.24 24176140.34 0.0540 0.0345

Jupiter 61480-03-02 03:22 G 24176229.56 24176229.64 24176229.73 0.0537 0.0399

Saturn 61480-08-21 16:48 G 24176402.19 24176402.20 24176402.22 0.0281 0.0278

Saturn 61480-11-18 05:46 G 24176490.61 24176490.74 24176490.86 0.0282 0.0125

Saturn 61481-02-14 18:14 G 24176579.12 24176579.26 24176579.40 0.0282 0.0028

Saturn 61481-05-14 06:43 G 24176667.68 24176667.78 24176667.89 0.0283 0.0178

Venus 61482-02-04 02:10 G 24176933.49 24176933.59 24176933.69 0.3682 0.0156

Mars 61482-08-27 10:05 G 24177137.80 24177137.92 24177138.04 0.1891 0.1038

Neptune 61482-09-02 00:14 G 24177143.46 24177143.51 24177143.60 0.0088 0.0081

Neptune 61482-11-29 03:22 G 24177231.55 24177231.64 24177231.76 0.0088 0.0071

Neptune 61483-02-25 06:43 G 24177319.65 24177319.78 24177319.91 0.0088 0.0061

Neptune 61483-05-24 09:50 G 24177407.76 24177407.91 24177408.06 0.0088 0.0050

Neptune 61483-08-20 12:43 G 24177495.88 24177496.03 24177496.20 0.0088 0.0040

Neptune 61483-11-16 15:50 G 24177584.00 24177584.16 24177584.34 0.0088 0.0030

Neptune 61484-02-12 18:58 G 24177672.12 24177672.29 24177672.48 0.0088 0.0020

Neptune 61484-05-10 22:19 G 24177760.24 24177760.43 24177760.61 0.0088 0.0009

Uranus 61484-08-06 04:19 G 24177847.61 24177847.68 24177847.77 0.0141 0.0126

Neptune 61484-08-07 01:26 G 24177848.37 24177848.56 24177848.74 0.0088 0.0001

Uranus 61484-11-02 11:31 G 24177935.85 24177935.98 24177936.12 0.0141 0.0097

Neptune 61484-11-03 04:34 G 24177936.51 24177936.69 24177936.87 0.0088 0.0011

Uranus 61485-01-29 18:29 G 24178024.12 24178024.27 24178024.44 0.0140 0.0069

Neptune 61485-01-30 07:26 G 24178024.64 24178024.81 24178025.00 0.0088 0.0023

Uranus 61485-04-28 01:41 G 24178112.40 24178112.57 24178112.76 0.0140 0.0040

Neptune 61485-04-28 10:48 G 24178112.78 24178112.95 24178113.13 0.0088 0.0032

Uranus 61485-07-25 09:07 G 24178200.70 24178200.88 24178201.06 0.0140 0.0010

Neptune 61485-07-25 13:41 G 24178200.92 24178201.07 24178201.25 0.0088 0.0043 *

Uranus 61485-10-21 16:19 G 24178289.00 24178289.18 24178289.36 0.0140 0.0019

Neptune 61485-10-21 17:02 G 24178289.07 24178289.21 24178289.37 0.0088 0.0054 *

Jupiter 61486-01-14 20:10 G 24178374.31 24178374.34 24178374.37 0.0489 0.0480

Neptune 61486-01-17 20:10 G 24178377.23 24178377.34 24178377.48 0.0088 0.0064

Uranus 61486-01-17 23:31 G 24178377.31 24178377.48 24178377.66 0.0140 0.0048 *

Jupiter 61486-04-14 21:07 G 24178464.24 24178464.38 24178464.53 0.0490 0.0269

Neptune 61486-04-15 23:31 G 24178465.39 24178465.48 24178465.58 0.0088 0.0075

Uranus 61486-04-16 06:58 G 24178465.63 24178465.79 24178465.94 0.0140 0.0077

Neptune 61486-07-13 02:38 G 24178553.58 24178553.61 24178553.67 0.0088 0.0085

Uranus 61486-07-13 13:55 G 24178553.97 24178554.08 24178554.21 0.0140 0.0107

Uranus 61486-10-09 21:36 G 24178642.36 24178642.40 24178642.44 0.0140 0.0136

Mars 61487-05-18 12:43 G 24178862.94 24178863.03 24178863.12 0.1627 0.1119

Venus 61487-08-20 18:00 G 24178957.18 24178957.25 24178957.32 0.3681 0.2754

Earth 61489-04-25 20:24 G 24179571.24 24179571.35 24179571.45 0.2681 0.0919

Moon 61489-04-25 21:07 G 24179571.27 24179571.38 24179571.48 0.2679 0.0976 *

Jupiter 61491-09-21 21:07 G 24180450.35 24180450.38 24180450.40 0.0540 0.0527

Earth 61491-10-27 11:17 G 24180485.83 24180485.97 24180486.12 0.2651 0.0530

Moon 61491-10-27 12:43 G 24180485.88 24180486.03 24180486.18 0.2648 0.0585 *

Jupiter 61491-12-20 07:12 G 24180539.68 24180539.80 24180539.92 0.0538 0.0226

Mars 61492-01-17 10:34 G 24180567.80 24180567.94 24180568.07 0.1895 0.0733

Saturn 61494-12-11 15:07 G 24181626.99 24181627.13 24181627.27 0.0277 0.0165

Saturn 61495-03-10 10:34 G 24181715.77 24181715.94 24181716.11 0.0277 0.0016

Saturn 61495-06-07 06:00 G 24181804.64 24181804.75 24181804.88 0.0276 0.0200

Moon 61496-04-18 16:48 G 24182121.16 24182121.20 24182121.24 0.2691 0.2469

Earth 61496-04-18 17:02 G 24182121.17 24182121.21 24182121.25 0.2684 0.2510 *

Pluto 61497-01-06 06:58 G 24182383.79 24182383.79 24182383.83 0.0066 0.0065

Pluto 61497-04-04 07:55 G 24182471.75 24182471.83 24182471.91 0.0066 0.0054

Pluto 61497-07-01 08:10 G 24182559.75 24182559.84 24182559.97 0.0066 0.0044

Pluto 61497-09-27 09:07 G 24182647.76 24182647.88 24182648.01 0.0066 0.0033

Pluto 61497-12-24 09:50 G 24182735.78 24182735.91 24182736.05 0.0066 0.0022

Jupiter 61498-01-31 20:38 G 24182774.19 24182774.36 24182774.54 0.0490 0.0085

Pluto 61498-03-22 10:34 G 24182823.80 24182823.94 24182824.08 0.0066 0.0011

Pluto 61498-06-18 11:17 G 24182911.82 24182911.97 24182912.11 0.0066 0.0002

Mars 61498-09-13 08:10 G 24182998.78 24182998.84 24182998.89 0.1635 0.1453

Pluto 61498-09-14 11:46 G 24182999.85 24182999.99 24183000.13 0.0066 0.0010

Pluto 61498-12-11 12:14 G 24183087.88 24183088.01 24183088.16 0.0067 0.0022

Pluto 61499-03-09 13:12 G 24183175.92 24183176.05 24183176.17 0.0067 0.0032

Pluto 61499-06-05 13:41 G 24183263.97 24183264.07 24183264.18 0.0067 0.0043

Pluto 61499-09-01 14:10 G 24183352.02 24183352.09 24183352.18 0.0067 0.0054

Pluto 61499-11-28 14:53 G 24183440.10 24183440.12 24183440.16 0.0067 0.0065

Earth 61502-04-29 14:53 G 24184322.05 24184322.12 24184322.19 0.2679 0.2086

Moon 61502-04-29 15:07 G 24184322.06 24184322.13 24184322.19 0.2673 0.2152 *

Jupiter 61503-10-09 10:19 G 24184849.79 24184849.93 24184850.06 0.0538 0.0040

Earth 61504-10-30 15:36 G 24185237.12 24185237.15 24185237.17 0.2652 0.2597

Mars 61508-02-04 17:46 G 24186429.13 24186429.24 24186429.36 0.1632 0.0653

Earth 61509-04-22 11:46 G 24186871.89 24186871.99 24186872.10 0.2683 0.1269

Moon 61509-04-22 12:14 G 24186871.91 24186872.01 24186872.11 0.2689 0.1289 *

Jupiter 61509-11-20 20:10 G 24187084.17 24187084.34 24187084.51 0.0490 0.0100

Saturn 61510-04-08 06:58 G 24187222.68 24187222.79 24187222.90 0.0282 0.0175

Saturn 61510-07-05 19:41 G 24187311.18 24187311.32 24187311.46 0.0283 0.0022

Saturn 61510-10-02 08:10 G 24187399.72 24187399.84 24187399.96 0.0283 0.0129

Saturn 61510-12-29 20:24 G 24187488.34 24187488.35 24187488.38 0.0284 0.0279

Jupiter 61515-07-28 13:12 G 24189159.93 24189160.05 24189160.18 0.0538 0.0151

Mars 61517-06-27 03:22 G 24189859.51 24189859.64 24189859.77 0.1629 0.0164

Jupiter 61521-09-08 19:12 G 24191394.17 24191394.30 24191394.45 0.0489 0.0288

Jupiter 61521-12-07 20:53 G 24191484.33 24191484.37 24191484.42 0.0491 0.0472

Mars 61522-02-26 10:19 G 24191564.83 24191564.93 24191565.04 0.1891 0.1240

Earth 61522-04-25 06:43 G 24191622.66 24191622.78 24191622.89 0.2682 0.0094

Moon 61522-04-25 07:26 G 24191622.70 24191622.81 24191622.92 0.2683 0.0087 *

Saturn 61524-04-30 16:05 G 24192359.06 24192359.17 24192359.29 0.0278 0.0206

Saturn 61524-07-28 11:31 G 24192447.80 24192447.98 24192448.15 0.0277 0.0025

Saturn 61524-10-25 06:58 G 24192536.65 24192536.79 24192536.94 0.0277 0.0159

Earth 61524-10-25 13:41 G 24192536.94 24192537.07 24192537.21 0.2650 0.1104 *

Moon 61524-10-25 15:07 G 24192536.99 24192537.13 24192537.27 0.2649 0.0948 *

Mars 61526-11-17 12:43 G 24193289.93 24193290.03 24193290.14 0.1627 0.0985

Jupiter 61527-05-16 16:05 G 24193470.07 24193470.17 24193470.27 0.0540 0.0345

Jupiter 61527-08-14 01:55 G 24193559.49 24193559.58 24193559.66 0.0537 0.0399

Uranus 61528-02-04 21:50 G 24193734.35 24193734.41 24193734.49 0.0137 0.0119

Uranus 61528-05-03 01:41 G 24193822.47 24193822.57 24193822.66 0.0137 0.0098

Uranus 61528-07-30 05:02 G 24193910.60 24193910.71 24193910.83 0.0138 0.0078

Uranus 61528-10-26 08:38 G 24193998.74 24193998.86 24193998.99 0.0138 0.0057

Uranus 61529-01-22 12:14 G 24194086.88 24194087.01 24194087.14 0.0138 0.0037

Venus 61529-02-28 11:46 G 24194123.85 24194123.99 24194124.13 0.3689 0.1280

Uranus 61529-04-20 15:50 G 24194175.02 24194175.16 24194175.29 0.0138 0.0016

Uranus 61529-07-17 19:12 G 24194263.17 24194263.30 24194263.44 0.0138 0.0005

Uranus 61529-10-13 22:34 G 24194351.31 24194351.44 24194351.58 0.0138 0.0025

Uranus 61530-01-10 02:10 G 24194439.46 24194439.59 24194439.72 0.0138 0.0045

Uranus 61530-04-08 05:31 G 24194527.62 24194527.73 24194527.85 0.0138 0.0065

Uranus 61530-07-05 08:53 G 24194615.77 24194615.87 24194615.98 0.0138 0.0085

Uranus 61530-10-01 12:14 G 24194703.94 24194704.01 24194704.11 0.0138 0.0106

Uranus 61530-12-28 15:36 G 24194792.11 24194792.15 24194792.22 0.0138 0.0126

Mars 61531-07-19 10:48 G 24194994.81 24194994.95 24194995.09 0.1895 0.0531

Venus 61533-02-26 07:41 G 24195582.73 24195582.82 24195582.92 0.3682 0.1499

Jupiter 61533-06-27 19:12 G 24195704.25 24195704.30 24195704.35 0.0488 0.0465

Jupiter 61533-09-25 20:10 G 24195794.19 24195794.34 24195794.48 0.0490 0.0283

Earth 61535-04-28 01:12 G 24196373.45 24196373.55 24196373.65 0.2680 0.1139

Moon 61535-04-28 01:55 G 24196373.48 24196373.58 24196373.68 0.2678 0.1210 *

Earth 61537-10-28 17:31 G 24197288.09 24197288.23 24197288.37 0.2651 0.0895

Moon 61537-10-28 18:43 G 24197288.15 24197288.28 24197288.42 0.2648 0.1099 *

Mars 61538-03-15 08:10 G 24197425.82 24197425.84 24197425.87 0.1634 0.1584

Venus 61538-09-11 23:31 G 24197606.39 24197606.48 24197606.58 0.3682 0.1147

Jupiter 61539-03-04 19:26 G 24197780.29 24197780.31 24197780.34 0.0540 0.0527

Jupiter 61539-06-02 05:46 G 24197869.62 24197869.74 24197869.86 0.0538 0.0228

Saturn 61539-08-26 08:38 G 24197954.78 24197954.86 24197954.95 0.0281 0.0220

Saturn 61539-11-22 21:36 G 24198043.26 24198043.40 24198043.53 0.0281 0.0068

Saturn 61540-02-19 10:05 G 24198131.79 24198131.92 24198132.05 0.0282 0.0084

Saturn 61540-05-17 22:19 G 24198220.36 24198220.43 24198220.51 0.0283 0.0233

Moon 61542-04-20 21:50 G 24198923.36 24198923.41 24198923.47 0.2691 0.2354

Earth 61542-04-20 22:05 G 24198923.36 24198923.42 24198923.47 0.2684 0.2273 *

Jupiter 61545-07-14 19:12 G 24200104.13 24200104.30 24200104.47 0.0490 0.0093

Mars 61547-08-05 18:00 G 24200856.13 24200856.25 24200856.36 0.1632 0.0781

Earth 61548-04-29 19:41 G 24201124.26 24201124.32 24201124.38 0.2679 0.2300

Moon 61548-04-29 19:55 G 24201124.28 24201124.33 24201124.39 0.2672 0.2289 *

Jupiter 61551-03-21 09:22 G 24202179.76 24202179.89 24202180.02 0.0538 0.0054

Saturn 61553-12-15 08:24 G 24203179.69 24203179.85 24203180.01 0.0277 0.0102

Saturn 61554-03-14 03:50 G 24203268.50 24203268.66 24203268.83 0.0277 0.0080

Saturn 61554-06-10 23:31 G 24203357.44 24203357.48 24203357.54 0.0276 0.0265

Earth 61555-04-23 16:48 G 24203674.10 24203674.20 24203674.31 0.2683 0.1037

Moon 61555-04-23 17:17 G 24203674.11 24203674.22 24203674.33 0.2688 0.0920 *

Mars 61556-12-26 03:36 G 24204286.52 24204286.65 24204286.78 0.1630 0.0041

Jupiter 61557-05-02 18:43 G 24204414.11 24204414.28 24204414.46 0.0490 0.0089

Moon 61557-10-23 17:31 G 24204588.19 24204588.23 24204588.27 0.2653 0.2517

Mars 61561-08-27 10:48 G 24205991.86 24205991.95 24205992.04 0.1892 0.1440

Jupiter 61563-01-07 12:29 G 24206489.89 24206490.02 24206490.15 0.0538 0.0135

Neptune 61563-04-05 02:38 G 24206577.60 24206577.61 24206577.62 0.0089 0.0089

Neptune 61563-07-02 04:05 G 24206665.62 24206665.67 24206665.73 0.0089 0.0080

Neptune 61563-09-28 05:31 G 24206753.66 24206753.73 24206753.82 0.0089 0.0072

Neptune 61563-12-25 06:58 G 24206841.71 24206841.79 24206841.90 0.0089 0.0064

Neptune 61564-03-22 08:24 G 24206929.76 24206929.85 24206929.97 0.0089 0.0057

Neptune 61564-06-18 10:05 G 24207017.81 24207017.92 24207018.04 0.0089 0.0048

Neptune 61564-09-14 11:46 G 24207105.87 24207105.99 24207106.12 0.0089 0.0040

Neptune 61564-12-11 13:12 G 24207193.93 24207194.05 24207194.18 0.0089 0.0032

Neptune 61565-03-09 14:53 G 24207281.98 24207282.12 24207282.25 0.0089 0.0023

Neptune 61565-06-05 16:19 G 24207370.04 24207370.18 24207370.32 0.0089 0.0015

Neptune 61565-09-01 17:46 G 24207458.10 24207458.24 24207458.38 0.0089 0.0007

Neptune 61565-11-28 19:12 G 24207546.17 24207546.30 24207546.44 0.0089 0.0003

Neptune 61566-02-24 20:38 G 24207634.23 24207634.36 24207634.50 0.0089 0.0010

Mars 61566-05-18 12:58 G 24207716.93 24207717.04 24207717.15 0.1627 0.0846

Neptune 61566-05-23 22:05 G 24207722.29 24207722.42 24207722.56 0.0089 0.0017

Neptune 61566-08-19 23:31 G 24207810.36 24207810.48 24207810.62 0.0089 0.0025

Neptune 61566-11-16 01:12 G 24207898.42 24207898.55 24207898.68 0.0089 0.0033

Neptune 61567-02-12 02:38 G 24207986.49 24207986.61 24207986.73 0.0089 0.0040

Neptune 61567-05-11 04:05 G 24208074.56 24208074.67 24208074.79 0.0089 0.0048

Neptune 61567-08-07 05:31 G 24208162.63 24208162.73 24208162.84 0.0089 0.0056

Neptune 61567-11-03 06:43 G 24208250.70 24208250.78 24208250.89 0.0089 0.0064

Neptune 61568-01-30 08:10 G 24208338.77 24208338.84 24208338.93 0.0089 0.0072

Earth 61568-04-25 11:31 G 24208424.87 24208424.98 24208425.10 0.2682 0.0197

Moon 61568-04-25 12:29 G 24208424.90 24208425.02 24208425.13 0.2683 0.0227 *

Neptune 61568-04-27 09:36 G 24208426.85 24208426.90 24208426.97 0.0089 0.0080

Neptune 61568-07-24 11:17 G 24208514.95 24208514.97 24208514.99 0.0089 0.0087

Uranus 61568-08-27 12:00 G 24208548.91 24208549.00 24208549.11 0.0141 0.0116

Uranus 61568-11-23 18:58 G 24208637.16 24208637.29 24208637.45 0.0141 0.0088

Saturn 61569-01-12 09:36 G 24208686.88 24208686.90 24208686.94 0.0282 0.0274

Jupiter 61569-02-18 18:29 G 24208724.13 24208724.27 24208724.41 0.0489 0.0270

Uranus 61569-02-20 02:24 G 24208725.44 24208725.60 24208725.77 0.0140 0.0058

Saturn 61569-04-10 22:34 G 24208775.31 24208775.44 24208775.57 0.0282 0.0120

Uranus 61569-05-19 09:36 G 24208813.72 24208813.90 24208814.08 0.0140 0.0029

Saturn 61569-07-08 11:17 G 24208863.83 24208863.97 24208864.10 0.0283 0.0033

Uranus 61569-08-15 16:48 G 24208902.02 24208902.20 24208902.38 0.0140 0.0001

Saturn 61569-10-04 23:31 G 24208952.38 24208952.48 24208952.59 0.0283 0.0182

Uranus 61569-11-12 00:00 G 24208990.32 24208990.50 24208990.68 0.0140 0.0029

Uranus 61570-02-08 07:12 G 24209078.63 24209078.80 24209078.97 0.0140 0.0058

Uranus 61570-05-07 14:24 G 24209166.96 24209167.10 24209167.25 0.0140 0.0087

Uranus 61570-08-03 21:50 G 24209255.31 24209255.41 24209255.51 0.0140 0.0116

Earth 61570-10-26 19:55 G 24209339.18 24209339.33 24209339.47 0.2650 0.0753

Moon 61570-10-26 21:22 G 24209339.25 24209339.39 24209339.53 0.2649 0.0629 *

Mars 61571-01-17 11:17 G 24209421.83 24209421.97 24209422.11 0.1895 0.0325

Jupiter 61574-10-26 15:22 G 24210800.04 24210800.14 24210800.25 0.0539 0.0326

Jupiter 61575-01-24 01:12 G 24210889.47 24210889.55 24210889.63 0.0537 0.0416

Venus 61580-03-21 06:58 G 24212772.75 24212772.79 24212772.84 0.3688 0.3478

Jupiter 61580-12-07 18:00 G 24213034.19 24213034.25 24213034.31 0.0488 0.0451

Jupiter 61581-03-07 18:43 G 24213124.15 24213124.28 24213124.43 0.0490 0.0298

Earth 61581-04-28 06:14 G 24213175.66 24213175.76 24213175.85 0.2680 0.1362

Moon 61581-04-28 06:43 G 24213175.69 24213175.78 24213175.88 0.2676 0.1451 *

Saturn 61583-05-04 08:53 G 24213911.73 24213911.87 24213912.02 0.0278 0.0146

Saturn 61583-08-01 04:34 G 24214000.51 24214000.69 24214000.86 0.0277 0.0037

Saturn 61583-10-29 00:14 G 24214089.40 24214089.51 24214089.61 0.0277 0.0220

Earth 61583-10-29 23:46 G 24214090.36 24214090.49 24214090.62 0.2651 0.1272

Moon 61583-10-30 00:58 G 24214090.41 24214090.54 24214090.67 0.2647 0.1345 *

Venus 61584-03-19 13:26 G 24214232.00 24214232.06 24214232.11 0.3682 0.3170

Pluto 61584-10-12 01:12 G 24214438.47 24214438.55 24214438.65 0.0078 0.0066

Pluto 61585-01-08 03:22 G 24214526.50 24214526.64 24214526.78 0.0078 0.0045

Pluto 61585-04-06 05:17 G 24214614.56 24214614.72 24214614.89 0.0078 0.0024

Pluto 61585-07-03 07:26 G 24214702.64 24214702.81 24214702.99 0.0077 0.0003

Pluto 61585-09-29 09:22 G 24214790.73 24214790.89 24214791.07 0.0077 0.0018

Pluto 61585-12-26 11:17 G 24214878.83 24214878.97 24214879.13 0.0077 0.0039

Pluto 61586-03-24 13:12 G 24214966.96 24214967.05 24214967.17 0.0077 0.0060

Jupiter 61586-08-14 18:00 G 24215110.22 24215110.25 24215110.27 0.0540 0.0526

Jupiter 61586-11-12 04:05 G 24215199.55 24215199.67 24215199.79 0.0538 0.0229

Mars 61587-02-03 18:00 G 24215283.15 24215283.25 24215283.36 0.1632 0.0914

Moon 61588-04-21 02:53 G 24215725.55 24215725.62 24215725.70 0.2691 0.1996

Earth 61588-04-21 02:53 G 24215725.55 24215725.62 24215725.70 0.2684 0.2041 *

Venus 61589-10-03 05:17 G 24216255.62 24216255.72 24216255.82 0.3682 0.0499

Jupiter 61592-12-24 18:14 G 24217434.09 24217434.26 24217434.43 0.0489 0.0110

Earth 61594-05-01 00:29 G 24217926.49 24217926.52 24217926.56 0.2679 0.2518

Moon 61594-05-01 00:43 G 24217926.50 24217926.53 24217926.56 0.2673 0.2540 *

Venus 61595-04-18 21:07 G 24218279.30 24218279.38 24218279.46 0.3681 0.2116

Mars 61596-06-26 03:36 G 24218713.52 24218713.65 24218713.78 0.1629 0.0102

Saturn 61598-08-29 00:43 G 24219507.41 24219507.53 24219507.64 0.0281 0.0162

Jupiter 61598-08-31 07:55 G 24219509.69 24219509.83 24219509.96 0.0539 0.0057

Saturn 61598-11-25 13:12 G 24219595.91 24219596.05 24219596.19 0.0281 0.0013

Saturn 61599-02-22 01:41 G 24219684.45 24219684.57 24219684.69 0.0282 0.0139

Mars 61601-02-25 11:02 G 24220418.89 24220418.96 24220419.03 0.1891 0.1630

Earth 61601-04-23 21:50 G 24220476.30 24220476.41 24220476.52 0.2683 0.0802

Moon 61601-04-23 22:34 G 24220476.33 24220476.44 24220476.54 0.2687 0.0803 *

Earth 61603-10-24 22:34 G 24221390.37 24221390.44 24221390.51 0.2649 0.2329

Moon 61603-10-24 23:46 G 24221390.42 24221390.49 24221390.56 0.2651 0.2301 *

Jupiter 61604-10-12 17:17 G 24221744.05 24221744.22 24221744.40 0.0489 0.0079

Mars 61605-11-16 13:12 G 24222143.93 24222144.05 24222144.16 0.1627 0.0716

Jupiter 61610-06-19 11:31 G 24223819.85 24223819.98 24223820.11 0.0539 0.0121

Mars 61610-07-18 11:17 G 24223848.83 24223848.97 24223849.12 0.1895 0.0169

Uranus 61611-11-29 01:41 G 24224347.54 24224347.57 24224347.60 0.0137 0.0133

Uranus 61612-02-25 05:02 G 24224435.64 24224435.71 24224435.80 0.0137 0.0113

Uranus 61612-05-23 08:53 G 24224523.77 24224523.87 24224523.97 0.0137 0.0092

Uranus 61612-08-19 12:14 G 24224611.90 24224612.01 24224612.14 0.0138 0.0072

Saturn 61612-09-20 06:00 G 24224643.66 24224643.75 24224643.86 0.0278 0.0221

Uranus 61612-11-15 16:05 G 24224700.04 24224700.17 24224700.29 0.0138 0.0051

Saturn 61612-12-18 01:26 G 24224732.39 24224732.56 24224732.73 0.0277 0.0040

Uranus 61613-02-11 19:26 G 24224788.18 24224788.31 24224788.45 0.0138 0.0031

Saturn 61613-03-16 20:53 G 24224821.23 24224821.37 24224821.53 0.0277 0.0143

Uranus 61613-05-10 23:02 G 24224876.32 24224876.46 24224876.59 0.0138 0.0010

Uranus 61613-08-07 02:24 G 24224964.47 24224964.60 24224964.74 0.0138 0.0011

Uranus 61613-11-03 06:00 G 24225052.62 24225052.75 24225052.88 0.0138 0.0030

Uranus 61614-01-30 09:22 G 24225140.77 24225140.89 24225141.02 0.0138 0.0051

Earth 61614-04-26 16:34 G 24225227.08 24225227.19 24225227.30 0.2681 0.0402

Moon 61614-04-26 17:17 G 24225227.11 24225227.22 24225227.33 0.2682 0.0550 *

Uranus 61614-04-28 12:43 G 24225228.92 24225229.03 24225229.15 0.0138 0.0071

Uranus 61614-07-25 16:19 G 24225317.08 24225317.18 24225317.28 0.0138 0.0091

Uranus 61614-10-21 19:41 G 24225405.24 24225405.32 24225405.40 0.0138 0.0111

Uranus 61615-01-17 23:02 G 24225493.42 24225493.46 24225493.51 0.0138 0.0131

Mars 61615-04-08 22:34 G 24225574.40 24225574.44 24225574.48 0.1625 0.1535

Jupiter 61616-07-31 17:02 G 24226054.07 24226054.21 24226054.36 0.0489 0.0257

Earth 61616-10-27 01:55 G 24226141.44 24226141.58 24226141.73 0.2650 0.0395

Moon 61616-10-27 03:36 G 24226141.50 24226141.65 24226141.80 0.2649 0.0193 *

Mars 61619-12-08 12:43 G 24227279.00 24227279.03 24227279.06 0.1898 0.1843

Jupiter 61622-04-07 14:24 G 24228130.00 24228130.10 24228130.21 0.0539 0.0311

Jupiter 61622-07-06 00:14 G 24228219.43 24228219.51 24228219.58 0.0537 0.0431

Mars 61626-08-04 18:14 G 24229710.16 24229710.26 24229710.35 0.1632 0.1044

Earth 61627-04-29 11:02 G 24229977.87 24229977.96 24229978.05 0.2680 0.1582

Moon 61627-04-29 11:31 G 24229977.89 24229977.98 24229978.07 0.2675 0.1591 *

Saturn 61628-01-16 01:26 G 24230239.47 24230239.56 24230239.65 0.0281 0.0218

Saturn 61628-04-13 14:10 G 24230327.96 24230328.09 24230328.23 0.0282 0.0065

Jupiter 61628-05-19 16:48 G 24230364.13 24230364.20 24230364.28 0.0489 0.0436

Saturn 61628-07-11 02:38 G 24230416.48 24230416.61 24230416.74 0.0282 0.0086

Jupiter 61628-08-17 17:46 G 24230454.11 24230454.24 24230454.38 0.0490 0.0315

Saturn 61628-10-07 15:07 G 24230505.06 24230505.13 24230505.20 0.0283 0.0235

Earth 61629-10-30 06:00 G 24230892.63 24230892.75 24230892.87 0.2652 0.1639

Moon 61629-10-30 06:43 G 24230892.67 24230892.78 24230892.90 0.2646 0.1717 *

Jupiter 61634-01-24 17:17 G 24232440.18 24232440.22 24232440.27 0.0540 0.0503

Moon 61634-04-22 07:55 G 24232527.75 24232527.83 24232527.92 0.2690 0.1837

Earth 61634-04-22 07:55 G 24232527.75 24232527.83 24232527.91 0.2684 0.1805 *

Jupiter 61634-04-24 03:22 G 24232529.53 24232529.64 24232529.76 0.0538 0.0250

Mars 61635-12-26 03:50 G 24233140.53 24233140.66 24233140.78 0.1629 0.0240

Venus 61636-10-26 08:10 G 24233445.70 24233445.84 24233445.98 0.3689 0.1055

Jupiter 61640-06-05 17:02 G 24234764.04 24234764.21 24234764.38 0.0490 0.0125

Mars 61640-08-26 11:17 G 24234845.94 24234845.97 24234846.01 0.1891 0.1819

Venus 61640-10-24 10:48 G 24234904.87 24234904.95 24234905.04 0.3682 0.2163

Saturn 61642-02-07 06:29 G 24235375.73 24235375.77 24235375.82 0.0278 0.0267

Saturn 61642-05-07 01:55 G 24235464.41 24235464.58 24235464.74 0.0278 0.0087

Saturn 61642-08-03 21:22 G 24235553.23 24235553.39 24235553.56 0.0277 0.0096

Mars 61645-05-17 13:12 G 24236570.93 24236571.05 24236571.17 0.1627 0.0578

Jupiter 61646-02-10 06:14 G 24236839.63 24236839.76 24236839.89 0.0539 0.0056

Venus 61646-05-10 02:53 G 24236928.51 24236928.62 24236928.72 0.3682 0.0513

Neptune 61647-03-03 19:41 G 24237226.30 24237226.32 24237226.38 0.0088 0.0087

Earth 61647-04-25 02:53 G 24237278.50 24237278.62 24237278.73 0.2682 0.0585

Moon 61647-04-25 03:22 G 24237278.53 24237278.64 24237278.76 0.2686 0.0447 *

Neptune 61647-05-30 22:48 G 24237314.38 24237314.45 24237314.56 0.0088 0.0076

Neptune 61647-08-27 01:55 G 24237402.47 24237402.58 24237402.71 0.0088 0.0066

Neptune 61647-11-23 04:48 G 24237490.58 24237490.70 24237490.86 0.0088 0.0057

Neptune 61648-02-19 07:55 G 24237578.69 24237578.83 24237579.00 0.0088 0.0046

Neptune 61648-05-17 11:17 G 24237666.81 24237666.97 24237667.14 0.0088 0.0036

Neptune 61648-08-13 14:24 G 24237754.93 24237755.10 24237755.28 0.0088 0.0025

Neptune 61648-11-09 17:31 G 24237843.05 24237843.23 24237843.41 0.0088 0.0015

Neptune 61649-02-05 20:38 G 24237931.18 24237931.36 24237931.55 0.0088 0.0005

Neptune 61649-05-04 23:46 G 24238019.31 24238019.49 24238019.68 0.0088 0.0006

Neptune 61649-08-01 02:53 G 24238107.44 24238107.62 24238107.80 0.0088 0.0016

Earth 61649-10-25 04:34 G 24238192.60 24238192.69 24238192.79 0.2649 0.1988

Moon 61649-10-25 06:00 G 24238192.64 24238192.75 24238192.86 0.2651 0.1749 *

Neptune 61649-10-28 06:00 G 24238195.58 24238195.75 24238195.93 0.0088 0.0027

Mars 61650-01-16 12:00 G 24238275.85 24238276.00 24238276.14 0.1895 0.0063

Neptune 61650-01-24 09:07 G 24238283.72 24238283.88 24238284.05 0.0088 0.0037

Neptune 61650-04-22 12:14 G 24238371.86 24238372.01 24238372.17 0.0088 0.0048

Neptune 61650-07-19 15:22 G 24238460.01 24238460.14 24238460.29 0.0088 0.0058

Neptune 61650-10-15 18:43 G 24238548.17 24238548.28 24238548.40 0.0088 0.0069

Neptune 61651-01-11 21:36 G 24238636.34 24238636.40 24238636.50 0.0088 0.0080

Venus 61651-11-23 18:29 G 24238952.22 24238952.27 24238952.33 0.3681 0.3092

Jupiter 61652-03-24 16:34 G 24239074.02 24239074.19 24239074.36 0.0489 0.0059

Uranus 61652-06-20 12:29 G 24239161.99 24239162.02 24239162.09 0.0141 0.0135

Uranus 61652-09-16 19:55 G 24239250.21 24239250.33 24239250.45 0.0141 0.0106

Uranus 61652-12-14 02:53 G 24239338.47 24239338.62 24239338.78 0.0141 0.0077

Uranus 61653-03-12 10:05 G 24239426.75 24239426.92 24239427.09 0.0140 0.0049

Uranus 61653-06-08 17:17 G 24239515.04 24239515.22 24239515.40 0.0140 0.0020

Uranus 61653-09-05 00:29 G 24239603.34 24239603.52 24239603.70 0.0140 0.0009

Uranus 61653-12-02 07:41 G 24239691.64 24239691.82 24239692.00 0.0140 0.0039

Uranus 61654-02-28 14:38 G 24239779.96 24239780.11 24239780.29 0.0140 0.0068

Uranus 61654-05-27 22:05 G 24239868.30 24239868.42 24239868.56 0.0140 0.0097

Uranus 61654-08-24 05:31 G 24239956.66 24239956.73 24239956.81 0.0140 0.0126

Mars 61654-10-07 22:34 G 24240001.38 24240001.44 24240001.51 0.1625 0.1403

Saturn 61657-06-04 03:50 G 24240971.61 24240971.66 24240971.72 0.0280 0.0256

Saturn 61657-08-31 16:34 G 24241060.06 24241060.19 24241060.32 0.0281 0.0104

Saturn 61657-11-28 05:02 G 24241148.58 24241148.71 24241148.85 0.0281 0.0048

Jupiter 61657-11-29 09:50 G 24241149.78 24241149.91 24241150.04 0.0539 0.0123

Saturn 61658-02-24 17:31 G 24241237.13 24241237.23 24241237.33 0.0282 0.0196

Mars 61659-06-08 12:29 G 24241705.96 24241706.02 24241706.09 0.1898 0.1688

Earth 61660-04-26 21:36 G 24242029.29 24242029.40 24242029.51 0.2681 0.0634

Moon 61660-04-26 22:19 G 24242029.32 24242029.43 24242029.54 0.2680 0.0648 *

Earth 61662-10-28 08:10 G 24242943.69 24242943.84 24242943.99 0.2650 0.0057

Moon 61662-10-28 09:36 G 24242943.75 24242943.90 24242944.05 0.2649 0.0065 *

Jupiter 61664-01-11 15:50 G 24243384.01 24243384.16 24243384.31 0.0489 0.0246

Mars 61666-02-02 18:14 G 24244137.17 24244137.26 24244137.35 0.1632 0.1171

Jupiter 61669-09-17 13:26 G 24245459.95 24245460.06 24245460.17 0.0540 0.0300

Jupiter 61669-12-15 23:02 G 24245549.39 24245549.46 24245549.54 0.0537 0.0444

Saturn 61671-09-23 23:17 G 24246196.33 24246196.47 24246196.61 0.0278 0.0159

Saturn 61671-12-21 18:43 G 24246285.11 24246285.28 24246285.45 0.0278 0.0023

Saturn 61672-03-19 14:24 G 24246373.99 24246374.10 24246374.22 0.0277 0.0206

Earth 61673-04-29 16:05 G 24246780.08 24246780.17 24246780.25 0.2680 0.1803

Moon 61673-04-29 16:34 G 24246780.11 24246780.19 24246780.27 0.2675 0.1907 *

Mars 61675-06-26 03:50 G 24247567.54 24247567.66 24247567.79 0.1630 0.0370

Jupiter 61675-10-30 15:36 G 24247694.07 24247694.15 24247694.24 0.0488 0.0423

Earth 61675-10-31 12:14 G 24247694.92 24247695.01 24247695.11 0.2652 0.2018

Moon 61675-10-31 12:58 G 24247694.96 24247695.04 24247695.13 0.2645 0.2120 *

Jupiter 61676-01-28 16:34 G 24247784.06 24247784.19 24247784.32 0.0490 0.0326

Earth 61680-04-22 12:58 G 24249329.95 24249330.04 24249330.13 0.2684 0.1571

Moon 61680-04-22 13:12 G 24249329.96 24249330.05 24249330.14 0.2690 0.1533 *

Jupiter 61681-07-06 16:19 G 24249770.13 24249770.18 24249770.24 0.0540 0.0490

Jupiter 61681-10-04 02:24 G 24249859.49 24249859.60 24249859.72 0.0538 0.0264

Mars 61684-11-15 13:26 G 24250997.93 24250998.06 24250998.18 0.1627 0.0446

Saturn 61687-01-18 17:31 G 24251792.11 24251792.23 24251792.34 0.0281 0.0160

Saturn 61687-04-17 06:00 G 24251880.61 24251880.75 24251880.89 0.0282 0.0009

Saturn 61687-07-14 18:29 G 24251969.15 24251969.27 24251969.39 0.0282 0.0142

Jupiter 61687-11-16 15:50 G 24252094.00 24252094.16 24252094.33 0.0490 0.0140

Mars 61689-07-17 12:14 G 24252702.86 24252703.01 24252703.15 0.1895 0.0246

Earth 61693-04-25 07:41 G 24254080.71 24254080.82 24254080.94 0.2682 0.0353

Moon 61693-04-25 08:24 G 24254080.74 24254080.85 24254080.96 0.2686 0.0323 *

Venus 61693-06-02 09:22 G 24254118.75 24254118.89 24254119.03 0.3689 0.1426

Jupiter 61693-07-23 05:46 G 24254169.61 24254169.74 24254169.87 0.0538 0.0078

Mars 61694-04-07 22:48 G 24254428.37 24254428.45 24254428.53 0.1625 0.1263

Earth 61695-10-26 10:48 G 24254994.83 24254994.95 24254995.06 0.2649 0.1629

Moon 61695-10-26 12:14 G 24254994.89 24254995.01 24254995.13 0.2651 0.1585 *

Uranus 61695-12-19 08:38 G 24255048.82 24255048.86 24255048.91 0.0137 0.0128

Uranus 61696-03-16 12:14 G 24255136.93 24255137.01 24255137.10 0.0137 0.0107

Uranus 61696-06-12 15:50 G 24255225.06 24255225.16 24255225.27 0.0137 0.0087

Uranus 61696-09-08 19:26 G 24255313.19 24255313.31 24255313.43 0.0138 0.0066

Uranus 61696-12-05 23:02 G 24255401.33 24255401.46 24255401.59 0.0138 0.0046

Uranus 61697-03-04 02:24 G 24255489.47 24255489.60 24255489.74 0.0138 0.0026

Uranus 61697-05-31 06:00 G 24255577.61 24255577.75 24255577.89 0.0138 0.0005

Venus 61697-05-31 08:24 G 24255577.75 24255577.85 24255577.95 0.3682 0.1155 *

Uranus 61697-08-27 09:22 G 24255665.76 24255665.89 24255666.03 0.0138 0.0016

Uranus 61697-11-23 12:58 G 24255753.91 24255754.04 24255754.17 0.0138 0.0035

Uranus 61698-02-19 16:19 G 24255842.06 24255842.18 24255842.31 0.0138 0.0056

Uranus 61698-05-18 19:55 G 24255930.22 24255930.33 24255930.44 0.0138 0.0075

Uranus 61698-08-14 23:17 G 24256018.38 24256018.47 24256018.57 0.0138 0.0095

Uranus 61698-11-11 02:38 G 24256106.54 24256106.61 24256106.69 0.0138 0.0116

Mars 61698-12-07 12:58 G 24256132.96 24256133.04 24256133.13 0.1898 0.1485

Uranus 61699-02-07 06:00 G 24256194.73 24256194.75 24256194.78 0.0138 0.0136

Jupiter 61699-09-04 15:22 G 24256403.97 24256404.14 24256404.31 0.0489 0.0045

Saturn 61701-02-10 23:17 G 24256928.36 24256928.47 24256928.59 0.0278 0.0209

Saturn 61701-05-10 18:43 G 24257017.11 24257017.28 24257017.45 0.0278 0.0027

Saturn 61701-08-07 14:24 G 24257105.96 24257106.10 24257106.24 0.0277 0.0157

Venus 61702-12-16 00:14 G 24257601.42 24257601.51 24257601.61 0.3681 0.1480

Jupiter 61705-05-12 08:10 G 24258479.71 24258479.84 24258479.97 0.0539 0.0122

Mars 61705-08-04 18:14 G 24258564.19 24258564.26 24258564.34 0.1632 0.1303

Earth 61706-04-29 02:24 G 24258831.49 24258831.60 24258831.71 0.2681 0.0848

Moon 61706-04-29 03:07 G 24258831.52 24258831.63 24258831.73 0.2678 0.0990 *

Earth 61708-10-29 14:24 G 24259745.95 24259746.10 24259746.25 0.2650 0.0336

Moon 61708-10-29 15:36 G 24259746.00 24259746.15 24259746.30 0.2647 0.0551 *

Jupiter 61711-06-24 14:53 G 24260713.97 24260714.12 24260714.28 0.0488 0.0227

Moon 61713-04-21 22:34 G 24261381.43 24261381.44 24261381.45 0.2691 0.2662

Earth 61713-04-21 22:48 G 24261381.43 24261381.45 24261381.48 0.2685 0.2587 *

Mars 61714-12-26 03:50 G 24261994.54 24261994.66 24261994.79 0.1629 0.0500

Saturn 61716-06-07 20:10 G 24262524.24 24262524.34 24262524.44 0.0280 0.0194

Saturn 61716-09-04 08:53 G 24262612.73 24262612.87 24262613.01 0.0281 0.0043

Saturn 61716-12-01 21:22 G 24262701.26 24262701.39 24262701.52 0.0281 0.0107

Saturn 61717-02-28 09:36 G 24262789.85 24262789.90 24262789.96 0.0282 0.0255

Jupiter 61717-02-28 11:31 G 24262789.87 24262789.98 24262790.09 0.0540 0.0305 *

Jupiter 61717-05-28 21:22 G 24262879.32 24262879.39 24262879.46 0.0538 0.0441

Earth 61719-05-01 20:53 G 24263582.30 24263582.37 24263582.44 0.2680 0.2020

Moon 61719-05-01 21:22 G 24263582.31 24263582.39 24263582.46 0.2674 0.1999 *

Earth 61721-11-01 18:29 G 24264497.21 24264497.27 24264497.33 0.2652 0.2391

Moon 61721-11-01 19:12 G 24264497.24 24264497.30 24264497.36 0.2646 0.2406 *

Jupiter 61723-04-12 14:10 G 24265024.00 24265024.09 24265024.18 0.0488 0.0413

Jupiter 61723-07-11 14:53 G 24265114.00 24265114.12 24265114.25 0.0490 0.0336

Mars 61724-05-17 13:26 G 24265424.93 24265425.06 24265425.19 0.1627 0.0312

Earth 61726-04-24 17:46 G 24266132.15 24266132.24 24266132.34 0.2683 0.1345

Moon 61726-04-24 18:14 G 24266132.16 24266132.26 24266132.36 0.2689 0.1282 *

Neptune 61728-01-01 01:41 G 24266748.55 24266748.57 24266748.63 0.0089 0.0086

Neptune 61728-03-29 03:36 G 24266836.58 24266836.65 24266836.72 0.0089 0.0077

Neptune 61728-06-25 05:02 G 24266924.63 24266924.71 24266924.80 0.0089 0.0069

Neptune 61728-09-21 06:29 G 24267012.68 24267012.77 24267012.88 0.0089 0.0061

Jupiter 61728-12-17 15:07 G 24267100.07 24267100.13 24267100.18 0.0540 0.0485

Neptune 61728-12-18 08:10 G 24267100.73 24267100.84 24267100.96 0.0089 0.0052

Mars 61729-01-16 12:29 G 24267129.88 24267130.02 24267130.16 0.1895 0.0427

Neptune 61729-03-16 09:36 G 24267188.79 24267188.90 24267189.03 0.0089 0.0044

Jupiter 61729-03-17 01:12 G 24267189.44 24267189.55 24267189.67 0.0538 0.0271

Neptune 61729-06-12 11:02 G 24267276.84 24267276.96 24267277.10 0.0089 0.0037

Neptune 61729-09-08 12:43 G 24267364.90 24267365.03 24267365.17 0.0089 0.0028

Neptune 61729-12-05 14:10 G 24267452.96 24267453.09 24267453.23 0.0089 0.0020

Neptune 61730-03-03 15:50 G 24267541.02 24267541.16 24267541.30 0.0089 0.0012

Neptune 61730-05-30 17:17 G 24267629.08 24267629.22 24267629.36 0.0089 0.0004

Saturn 61730-06-30 21:22 G 24267660.37 24267660.39 24267660.43 0.0278 0.0274

Neptune 61730-08-26 18:43 G 24267717.15 24267717.28 24267717.42 0.0089 0.0005

Saturn 61730-09-27 16:34 G 24267749.04 24267749.19 24267749.36 0.0278 0.0095

Neptune 61730-11-22 20:24 G 24267805.21 24267805.35 24267805.48 0.0089 0.0013

Saturn 61730-12-25 12:14 G 24267837.84 24267838.01 24267838.18 0.0277 0.0088

Neptune 61731-02-18 21:50 G 24267893.28 24267893.41 24267893.54 0.0089 0.0020

Saturn 61731-03-24 08:10 G 24267926.81 24267926.84 24267926.86 0.0277 0.0273

Neptune 61731-05-17 23:17 G 24267981.34 24267981.47 24267981.60 0.0089 0.0028

Neptune 61731-08-14 00:43 G 24268069.41 24268069.53 24268069.66 0.0089 0.0036

Neptune 61731-11-10 02:10 G 24268157.47 24268157.59 24268157.71 0.0089 0.0044

Neptune 61732-02-06 03:36 G 24268245.54 24268245.65 24268245.76 0.0089 0.0052

Neptune 61732-05-04 05:02 G 24268333.62 24268333.71 24268333.82 0.0089 0.0060

Neptune 61732-07-31 06:14 G 24268421.69 24268421.76 24268421.86 0.0089 0.0068

Neptune 61732-10-27 07:55 G 24268509.77 24268509.83 24268509.91 0.0089 0.0076

Neptune 61733-01-23 09:22 G 24268597.85 24268597.89 24268597.94 0.0089 0.0083

Mars 61733-10-07 23:02 G 24268855.36 24268855.46 24268855.55 0.1625 0.1129

Jupiter 61735-04-29 14:24 G 24269423.93 24269424.10 24269424.27 0.0490 0.0150

Uranus 61736-07-11 20:10 G 24269863.28 24269863.34 24269863.44 0.0141 0.0125

Uranus 61736-10-08 03:36 G 24269951.52 24269951.65 24269951.78 0.0141 0.0096

Uranus 61737-01-04 10:34 G 24270039.79 24270039.94 24270040.11 0.0141 0.0067

Uranus 61737-04-02 17:46 G 24270128.07 24270128.24 24270128.42 0.0140 0.0038

Uranus 61737-06-30 00:58 G 24270216.36 24270216.54 24270216.73 0.0140 0.0010

Uranus 61737-09-26 08:10 G 24270304.66 24270304.84 24270305.03 0.0140 0.0020

Uranus 61737-12-23 15:22 G 24270392.97 24270393.14 24270393.32 0.0140 0.0049

Uranus 61738-03-21 22:34 G 24270481.29 24270481.44 24270481.60 0.0140 0.0078

Mars 61738-06-08 13:26 G 24270559.96 24270560.06 24270560.17 0.1898 0.1281

Uranus 61738-06-18 06:00 G 24270569.63 24270569.75 24270569.87 0.0140 0.0107

Uranus 61738-09-14 12:58 G 24270658.02 24270658.04 24270658.10 0.0140 0.0137

Earth 61739-04-27 12:43 G 24270882.92 24270883.03 24270883.14 0.2682 0.0120

Moon 61739-04-27 13:26 G 24270882.95 24270883.06 24270883.17 0.2685 0.0020 *

Jupiter 61741-01-03 04:34 G 24271499.56 24271499.69 24271499.82 0.0538 0.0088

Earth 61741-10-27 16:48 G 24271797.07 24271797.20 24271797.33 0.2649 0.1283

Moon 61741-10-27 18:14 G 24271797.13 24271797.26 24271797.40 0.2651 0.1047 *

Venus 61744-06-24 04:34 G 24272767.63 24272767.69 24272767.76 0.3688 0.3308

Mars 61745-02-02 18:29 G 24272991.21 24272991.27 24272991.33 0.1632 0.1432

Pluto 61745-02-03 15:36 G 24272992.10 24272992.15 24272992.21 0.0066 0.0060

Pluto 61745-05-02 16:05 G 24273080.09 24273080.17 24273080.28 0.0066 0.0050

Pluto 61745-07-29 16:48 G 24273168.09 24273168.20 24273168.33 0.0066 0.0039

Pluto 61745-10-25 17:31 G 24273256.11 24273256.23 24273256.37 0.0066 0.0028

Saturn 61745-10-25 20:53 G 24273256.31 24273256.37 24273256.43 0.0281 0.0251 *

Pluto 61746-01-21 18:14 G 24273344.12 24273344.26 24273344.40 0.0066 0.0017

Saturn 61746-01-22 09:36 G 24273344.77 24273344.90 24273345.03 0.0281 0.0099

Pluto 61746-04-19 18:58 G 24273432.14 24273432.29 24273432.43 0.0066 0.0007

Saturn 61746-04-20 22:05 G 24273433.29 24273433.42 24273433.56 0.0282 0.0052

Pluto 61746-07-16 19:26 G 24273520.17 24273520.31 24273520.46 0.0066 0.0005

Saturn 61746-07-18 10:34 G 24273521.84 24273521.94 24273522.03 0.0282 0.0201

Pluto 61746-10-12 19:55 G 24273608.20 24273608.33 24273608.48 0.0066 0.0016

Pluto 61747-01-08 20:53 G 24273696.24 24273696.37 24273696.50 0.0067 0.0026

Jupiter 61747-02-15 13:55 G 24273733.91 24273734.08 24273734.25 0.0489 0.0035

Pluto 61747-04-06 21:22 G 24273784.28 24273784.39 24273784.51 0.0067 0.0037

Pluto 61747-07-03 21:50 G 24273872.32 24273872.41 24273872.52 0.0067 0.0048

Pluto 61747-09-29 22:34 G 24273960.38 24273960.44 24273960.51 0.0067 0.0059

Venus 61748-06-22 13:55 G 24274227.02 24274227.08 24274227.15 0.3682 0.2830

Earth 61752-04-29 07:26 G 24275633.70 24275633.81 24275633.91 0.2681 0.1078

Moon 61752-04-29 08:10 G 24275633.73 24275633.84 24275633.94 0.2678 0.1099 *

Jupiter 61752-10-22 07:41 G 24275809.69 24275809.82 24275809.95 0.0539 0.0101

Venus 61754-01-06 06:00 G 24276250.64 24276250.75 24276250.85 0.3682 0.0207

Mars 61754-06-26 04:05 G 24276421.55 24276421.67 24276421.79 0.1629 0.0632

Earth 61754-10-30 20:38 G 24276548.22 24276548.36 24276548.50 0.2651 0.0707

Moon 61754-10-30 21:50 G 24276548.26 24276548.41 24276548.55 0.2646 0.0722 *

Jupiter 61758-12-04 13:26 G 24278043.91 24278044.06 24278044.22 0.0489 0.0216

Moon 61759-04-23 03:50 G 24278183.60 24278183.66 24278183.71 0.2691 0.2329

Earth 61759-04-23 03:50 G 24278183.61 24278183.66 24278183.71 0.2684 0.2352 *

Venus 61759-07-22 21:50 G 24278274.33 24278274.41 24278274.48 0.3681 0.2457

Saturn 61760-02-14 16:48 G 24278481.05 24278481.20 24278481.35 0.0278 0.0145

Saturn 61760-05-13 12:14 G 24278569.84 24278570.01 24278570.18 0.0278 0.0038

Saturn 61760-08-10 07:55 G 24278658.73 24278658.83 24278658.94 0.0277 0.0222

Mars 61763-11-16 13:41 G 24279851.94 24279852.07 24279852.19 0.1627 0.0186

Jupiter 61764-08-10 09:50 G 24280119.80 24280119.91 24280120.02 0.0540 0.0306

Jupiter 61764-11-07 19:41 G 24280209.25 24280209.32 24280209.40 0.0538 0.0440

Earth 61765-05-02 01:55 G 24280384.52 24280384.58 24280384.64 0.2680 0.2238

Moon 61765-05-02 01:55 G 24280384.53 24280384.58 24280384.64 0.2673 0.2314 *

Mars 61768-07-17 12:43 G 24281556.90 24281557.03 24281557.17 0.1895 0.0631

Jupiter 61770-09-22 13:12 G 24282353.95 24282354.05 24282354.15 0.0488 0.0395

Jupiter 61770-12-21 14:10 G 24282443.97 24282444.09 24282444.21 0.0490 0.0354

Earth 61772-04-24 22:48 G 24282934.35 24282934.45 24282934.56 0.2683 0.1110

Moon 61772-04-24 23:17 G 24282934.37 24282934.47 24282934.58 0.2689 0.1087 *

Mars 61773-04-07 23:02 G 24283282.36 24283282.46 24283282.56 0.1625 0.0995

Saturn 61775-06-11 12:43 G 24284076.91 24284077.03 24284077.15 0.0281 0.0129

Saturn 61775-09-08 01:12 G 24284165.42 24284165.55 24284165.69 0.0281 0.0023

Saturn 61775-12-05 13:41 G 24284253.96 24284254.07 24284254.18 0.0282 0.0170

Jupiter 61776-05-29 12:58 G 24284429.99 24284430.04 24284430.10 0.0541 0.0493

Jupiter 61776-08-26 23:17 G 24284519.36 24284519.47 24284519.59 0.0538 0.0264

Mars 61777-12-07 13:26 G 24284986.95 24284987.06 24284987.18 0.1898 0.1113

Uranus 61780-01-09 15:50 G 24285750.11 24285750.16 24285750.23 0.0137 0.0122

Uranus 61780-04-06 19:26 G 24285838.23 24285838.31 24285838.41 0.0137 0.0101

Uranus 61780-07-03 23:02 G 24285926.36 24285926.46 24285926.58 0.0137 0.0081

Uranus 61780-09-30 02:38 G 24286014.49 24286014.61 24286014.74 0.0138 0.0060

Uranus 61780-12-27 06:14 G 24286102.63 24286102.76 24286102.89 0.0138 0.0040

Uranus 61781-03-25 09:50 G 24286190.77 24286190.91 24286191.04 0.0138 0.0020

Uranus 61781-06-21 13:12 G 24286278.92 24286279.05 24286279.19 0.0138 0.0002

Uranus 61781-09-17 16:48 G 24286367.06 24286367.20 24286367.33 0.0138 0.0021

Uranus 61781-12-14 20:10 G 24286455.21 24286455.34 24286455.47 0.0138 0.0041

Uranus 61782-03-12 23:31 G 24286543.37 24286543.48 24286543.61 0.0138 0.0062

Uranus 61782-06-09 03:07 G 24286631.52 24286631.63 24286631.74 0.0138 0.0081

Uranus 61782-09-05 06:29 G 24286719.68 24286719.77 24286719.86 0.0138 0.0101

Jupiter 61782-10-09 12:43 G 24286753.87 24286754.03 24286754.20 0.0489 0.0158

Uranus 61782-12-02 09:50 G 24286807.85 24286807.91 24286807.98 0.0138 0.0121

Mars 61784-08-03 18:29 G 24287418.24 24287418.27 24287418.31 0.1632 0.1556

Earth 61785-04-27 17:46 G 24287685.12 24287685.24 24287685.35 0.2682 0.0150

Moon 61785-04-27 18:29 G 24287685.15 24287685.27 24287685.38 0.2682 0.0205 *

Earth 61787-10-28 23:02 G 24288599.33 24288599.46 24288599.60 0.2649 0.0917

Moon 61787-10-29 00:29 G 24288599.38 24288599.52 24288599.66 0.2649 0.0843 *

Jupiter 61788-06-15 03:07 G 24288829.50 24288829.63 24288829.76 0.0539 0.0091

Saturn 61789-07-03 15:22 G 24289213.03 24289213.14 24289213.26 0.0278 0.0206

Saturn 61789-09-30 10:48 G 24289301.78 24289301.95 24289302.12 0.0278 0.0025

Saturn 61789-12-28 06:14 G 24289390.62 24289390.76 24289390.91 0.0277 0.0159

Mars 61793-12-25 04:05 G 24290848.56 24290848.67 24290848.79 0.1630 0.0762

Jupiter 61794-07-28 12:14 G 24291063.84 24291064.01 24291064.19 0.0489 0.0028

Earth 61798-04-30 12:14 G 24292435.91 24292436.01 24292436.11 0.2681 0.1292

Moon 61798-04-30 12:58 G 24292435.94 24292436.04 24292436.13 0.2677 0.1413 *

Jupiter 61800-04-04 06:29 G 24293139.63 24293139.77 24293139.90 0.0539 0.0094

Earth 61800-11-01 02:53 G 24293350.48 24293350.62 24293350.75 0.2651 0.1072

Moon 61800-11-01 03:50 G 24293350.53 24293350.66 24293350.80 0.2646 0.1285 *

Venus 61801-01-30 05:46 G 24293440.60 24293440.74 24293440.88 0.3689 0.0901

Mars 61803-05-18 13:41 G 24294278.94 24294279.07 24294279.20 0.1627 0.0049

Saturn 61804-10-29 13:26 G 24294808.96 24294809.06 24294809.17 0.0281 0.0185

Saturn 61805-01-26 02:10 G 24294897.45 24294897.59 24294897.73 0.0282 0.0033

Venus 61805-01-28 11:31 G 24294899.89 24294899.98 24294900.07 0.3682 0.1833

Earth 61805-04-24 08:53 G 24294985.80 24294985.87 24294985.94 0.2684 0.2112

Moon 61805-04-24 08:53 G 24294985.81 24294985.87 24294985.94 0.2691 0.2176 *

Saturn 61805-04-24 14:38 G 24294985.99 24294986.11 24294986.24 0.0282 0.0117

Saturn 61805-07-22 02:53 G 24295074.58 24295074.62 24295074.67 0.0282 0.0265

Jupiter 61806-05-17 11:46 G 24295373.84 24295373.99 24295374.15 0.0489 0.0210

Mars 61808-01-17 13:12 G 24295983.92 24295984.05 24295984.18 0.1895 0.0829

Venus 61810-08-14 03:22 G 24296923.54 24296923.64 24296923.74 0.3682 0.0827

Moon 61811-05-04 06:58 G 24297186.74 24297186.79 24297186.83 0.2673 0.2400

Earth 61811-05-04 06:43 G 24297186.74 24297186.78 24297186.82 0.2680 0.2457 *

Neptune 61811-11-30 18:00 G 24297397.20 24297397.25 24297397.33 0.0088 0.0082

Jupiter 61812-01-22 09:22 G 24297449.77 24297449.89 24297450.00 0.0540 0.0284

Neptune 61812-02-26 21:07 G 24297485.29 24297485.38 24297485.49 0.0088 0.0072

Jupiter 61812-04-20 18:58 G 24297539.23 24297539.29 24297539.36 0.0537 0.0460

Neptune 61812-05-25 00:00 G 24297573.39 24297573.50 24297573.65 0.0088 0.0062

Neptune 61812-08-21 03:07 G 24297661.50 24297661.63 24297661.79 0.0088 0.0052

Mars 61812-10-07 23:17 G 24297709.36 24297709.47 24297709.58 0.1625 0.0859

Neptune 61812-11-17 06:14 G 24297749.61 24297749.76 24297749.93 0.0088 0.0042

Neptune 61813-02-13 09:36 G 24297837.73 24297837.90 24297838.07 0.0088 0.0032

Neptune 61813-05-12 12:29 G 24297925.85 24297926.02 24297926.20 0.0088 0.0022

Neptune 61813-08-08 15:36 G 24298013.97 24298014.15 24298014.34 0.0088 0.0011

Neptune 61813-11-04 18:43 G 24298102.10 24298102.28 24298102.47 0.0088 0.0001

Neptune 61814-01-31 21:50 G 24298190.23 24298190.41 24298190.59 0.0088 0.0010

Neptune 61814-04-30 00:43 G 24298278.36 24298278.53 24298278.72 0.0088 0.0021

Neptune 61814-07-27 04:05 G 24298366.50 24298366.67 24298366.85 0.0088 0.0030

Neptune 61814-10-23 06:58 G 24298454.64 24298454.79 24298454.97 0.0088 0.0041

Neptune 61815-01-19 10:05 G 24298542.79 24298542.92 24298543.09 0.0088 0.0052

Neptune 61815-04-17 13:41 G 24298630.94 24298631.07 24298631.20 0.0088 0.0062

Neptune 61815-07-14 16:34 G 24298719.10 24298719.19 24298719.31 0.0088 0.0072

Neptune 61815-10-10 19:26 G 24298807.27 24298807.31 24298807.40 0.0088 0.0084

Venus 61816-02-27 19:12 G 24298947.26 24298947.30 24298947.33 0.3681 0.3414

Mars 61817-06-08 13:55 G 24299413.95 24299414.08 24299414.20 0.1898 0.0923

Jupiter 61818-03-05 11:46 G 24299683.89 24299683.99 24299684.10 0.0488 0.0385

Earth 61818-04-27 03:50 G 24299736.55 24299736.66 24299736.77 0.2683 0.0878

Moon 61818-04-27 04:19 G 24299736.57 24299736.68 24299736.79 0.2689 0.0780 *

Jupiter 61818-06-03 12:29 G 24299773.91 24299774.02 24299774.14 0.0490 0.0364

Saturn 61818-11-21 15:36 G 24299945.08 24299945.15 24299945.21 0.0278 0.0256

Saturn 61819-02-18 10:34 G 24300033.78 24300033.94 24300034.11 0.0278 0.0076

Saturn 61819-05-18 06:14 G 24300122.60 24300122.76 24300122.92 0.0278 0.0107

Uranus 61820-08-02 04:05 G 24300564.57 24300564.67 24300564.77 0.0141 0.0115

Earth 61820-10-27 01:55 G 24300650.53 24300650.58 24300650.63 0.2648 0.2485

Moon 61820-10-27 03:07 G 24300650.57 24300650.63 24300650.70 0.2652 0.2350 *

Uranus 61820-10-29 11:02 G 24300652.82 24300652.96 24300653.11 0.0141 0.0087

Uranus 61821-01-25 18:14 G 24300741.09 24300741.26 24300741.43 0.0141 0.0058

Uranus 61821-04-24 01:12 G 24300829.38 24300829.55 24300829.74 0.0140 0.0030

Uranus 61821-07-21 08:38 G 24300917.67 24300917.86 24300918.04 0.0140 0.0003

Uranus 61821-10-17 15:36 G 24301005.97 24301006.15 24301006.34 0.0140 0.0029

Uranus 61822-01-13 22:48 G 24301094.29 24301094.45 24301094.62 0.0140 0.0058

Uranus 61822-04-12 06:00 G 24301182.62 24301182.75 24301182.90 0.0140 0.0088

Uranus 61822-07-09 13:26 G 24301270.96 24301271.06 24301271.17 0.0140 0.0117

Jupiter 61823-11-10 11:17 G 24301759.92 24301759.97 24301760.02 0.0540 0.0495

Jupiter 61824-02-07 21:36 G 24301849.29 24301849.40 24301849.52 0.0538 0.0262

Jupiter 61830-03-22 11:46 G 24304083.83 24304083.99 24304084.16 0.0489 0.0174

Earth 61831-04-29 22:34 G 24304487.33 24304487.44 24304487.55 0.2682 0.0332

Moon 61831-04-29 23:17 G 24304487.36 24304487.47 24304487.59 0.2681 0.0410 *

Pluto 61832-11-09 07:55 G 24305046.74 24305046.83 24305046.94 0.0078 0.0063

Pluto 61833-02-05 10:05 G 24305134.78 24305134.92 24305135.07 0.0078 0.0042

Pluto 61833-05-04 12:14 G 24305222.84 24305223.01 24305223.18 0.0078 0.0021

Mars 61833-06-26 04:19 G 24305275.57 24305275.68 24305275.78 0.1629 0.0889

Pluto 61833-07-31 14:24 G 24305310.92 24305311.10 24305311.27 0.0077 0.0001

Pluto 61833-10-27 16:19 G 24305399.01 24305399.18 24305399.35 0.0077 0.0021

Earth 61833-10-30 05:17 G 24305401.58 24305401.72 24305401.87 0.2650 0.0556

Moon 61833-10-30 06:43 G 24305401.63 24305401.78 24305401.92 0.2648 0.0386 *

Pluto 61834-01-23 18:14 G 24305487.12 24305487.26 24305487.41 0.0077 0.0042

Saturn 61834-03-18 16:48 G 24305541.11 24305541.20 24305541.29 0.0281 0.0212

Pluto 61834-04-21 20:10 G 24305575.25 24305575.34 24305575.45 0.0077 0.0063

Saturn 61834-06-15 05:31 G 24305629.60 24305629.73 24305629.87 0.0281 0.0061

Saturn 61834-09-11 18:00 G 24305718.12 24305718.25 24305718.39 0.0281 0.0089

Saturn 61834-12-09 06:29 G 24305806.70 24305806.77 24305806.84 0.0282 0.0237

Jupiter 61835-11-27 00:58 G 24306159.41 24306159.54 24306159.67 0.0539 0.0081

Jupiter 61842-01-08 10:34 G 24308393.76 24308393.94 24308394.11 0.0489 0.0022

Mars 61842-11-16 13:55 G 24308705.95 24308706.08 24308706.20 0.1627 0.0102

Earth 61844-05-01 17:17 G 24309238.12 24309238.22 24309238.31 0.2681 0.1518

Moon 61844-05-01 17:46 G 24309238.15 24309238.24 24309238.33 0.2677 0.1549 *

Earth 61846-11-02 09:07 G 24310152.76 24310152.88 24310153.01 0.2651 0.1451

Moon 61846-11-02 10:19 G 24310152.80 24310152.93 24310153.05 0.2646 0.1466 *

Mars 61847-07-18 13:12 G 24310410.93 24310411.05 24310411.18 0.1895 0.0999

Jupiter 61847-09-15 04:34 G 24310469.56 24310469.69 24310469.82 0.0540 0.0096

Saturn 61848-07-07 10:05 G 24310765.77 24310765.92 24310766.08 0.0278 0.0129

Saturn 61848-10-04 05:31 G 24310854.56 24310854.73 24310854.90 0.0278 0.0052

Saturn 61849-01-01 01:12 G 24310943.46 24310943.55 24310943.64 0.0277 0.0236

Moon 61851-04-25 14:10 G 24311788.00 24311788.09 24311788.17 0.2691 0.1794

Earth 61851-04-25 13:55 G 24311788.00 24311788.08 24311788.16 0.2684 0.1877 *

Mars 61852-04-07 23:17 G 24312136.36 24312136.47 24312136.59 0.1625 0.0725

Jupiter 61853-10-27 10:05 G 24312703.76 24312703.92 24312704.08 0.0488 0.0204

Venus 61856-02-19 17:02 G 24313549.18 24313549.21 24313549.23 0.3683 0.3525

Mars 61856-12-07 14:24 G 24313840.97 24313841.10 24313841.23 0.1898 0.0708

Earth 61857-05-04 11:46 G 24313988.98 24313988.99 24313988.99 0.2679 0.2670

Venus 61857-09-06 06:43 G 24314113.65 24314113.78 24314113.92 0.3689 0.1511

Jupiter 61859-07-04 07:41 G 24314779.71 24314779.82 24314779.94 0.0540 0.0282

Jupiter 61859-10-01 17:31 G 24314869.17 24314869.23 24314869.30 0.0537 0.0464

Mars 61861-08-29 08:38 G 24315566.82 24315566.86 24315566.90 0.1623 0.1545

Venus 61861-09-04 08:53 G 24315572.77 24315572.87 24315572.98 0.3682 0.0838

Saturn 61863-08-05 17:46 G 24316273.20 24316273.24 24316273.28 0.0281 0.0266

Saturn 61863-11-02 06:29 G 24316361.65 24316361.77 24316361.90 0.0281 0.0115

Uranus 61863-11-03 19:26 G 24316363.31 24316363.31 24316363.32 0.0137 0.0137

Saturn 61864-01-29 19:12 G 24316450.16 24316450.30 24316450.44 0.0282 0.0036

Uranus 61864-01-30 23:02 G 24316451.39 24316451.46 24316451.54 0.0137 0.0116

Saturn 61864-04-27 07:26 G 24316538.71 24316538.81 24316538.92 0.0282 0.0186

Earth 61864-04-27 08:53 G 24316538.76 24316538.87 24316538.98 0.2683 0.0646 *

Moon 61864-04-27 09:22 G 24316538.78 24316538.89 24316539.00 0.2687 0.0638 *

Uranus 61864-04-28 02:38 G 24316539.52 24316539.61 24316539.71 0.0137 0.0096

Uranus 61864-07-25 06:14 G 24316627.65 24316627.76 24316627.88 0.0137 0.0075

Uranus 61864-10-21 09:36 G 24316715.78 24316715.90 24316716.03 0.0137 0.0056

Uranus 61865-01-17 13:26 G 24316803.92 24316804.06 24316804.19 0.0138 0.0035

Uranus 61865-04-15 16:48 G 24316892.07 24316892.20 24316892.34 0.0138 0.0015

Uranus 61865-07-12 20:24 G 24316980.21 24316980.35 24316980.48 0.0138 0.0006

Jupiter 61865-08-15 09:50 G 24317013.80 24317013.91 24317014.01 0.0488 0.0384

Uranus 61865-10-08 23:46 G 24317068.36 24317068.49 24317068.63 0.0138 0.0026

Jupiter 61865-11-13 10:34 G 24317103.83 24317103.94 24317104.06 0.0490 0.0365

Uranus 61866-01-05 03:22 G 24317156.51 24317156.64 24317156.76 0.0138 0.0046

Uranus 61866-04-03 06:43 G 24317244.66 24317244.78 24317244.90 0.0138 0.0066

Uranus 61866-06-30 10:05 G 24317332.82 24317332.92 24317333.03 0.0138 0.0086

Uranus 61866-09-26 13:26 G 24317420.98 24317421.06 24317421.15 0.0138 0.0107

Earth 61866-10-28 08:10 G 24317452.75 24317452.84 24317452.92 0.2648 0.2134

Moon 61866-10-28 09:22 G 24317452.80 24317452.89 24317452.98 0.2651 0.2049 *

Uranus 61866-12-23 16:48 G 24317509.16 24317509.20 24317509.26 0.0138 0.0127

Venus 61867-03-21 00:58 G 24317596.45 24317596.54 24317596.63 0.3681 0.1805

Jupiter 61871-04-22 10:34 G 24319089.88 24319089.94 24319090.00 0.0540 0.0475

Jupiter 61871-07-20 20:53 G 24319179.26 24319179.37 24319179.48 0.0538 0.0280

Mars 61872-12-25 04:19 G 24319702.58 24319702.68 24319702.78 0.1629 0.1022

Earth 61877-04-30 03:36 G 24321289.54 24321289.65 24321289.76 0.2682 0.0562

Moon 61877-04-30 04:19 G 24321289.57 24321289.68 24321289.79 0.2681 0.0682 *

Jupiter 61877-09-01 10:05 G 24321413.76 24321413.92 24321414.08 0.0489 0.0180

Saturn 61877-11-24 09:50 G 24321497.79 24321497.91 24321498.05 0.0278 0.0181

Saturn 61878-02-21 05:17 G 24321586.55 24321586.72 24321586.90 0.0278 0.0006

Saturn 61878-05-21 00:58 G 24321675.41 24321675.54 24321675.67 0.0277 0.0184

Earth 61879-10-31 11:31 G 24322203.83 24322203.98 24322204.13 0.2650 0.0203

Moon 61879-10-31 12:58 G 24322203.89 24322204.04 24322204.18 0.2647 0.0103 *

Mars 61882-05-17 13:55 G 24323132.95 24323133.08 24323133.21 0.1627 0.0219

Jupiter 61883-05-08 23:17 G 24323489.34 24323489.47 24323489.60 0.0539 0.0079

Mars 61887-01-16 13:55 G 24324837.97 24324838.08 24324838.19 0.1895 0.1211

Jupiter 61889-06-20 09:22 G 24325723.71 24325723.89 24325724.06 0.0489 0.0008

Earth 61890-05-02 22:05 G 24326040.34 24326040.42 24326040.51 0.2681 0.1735

Moon 61890-05-02 22:34 G 24326040.35 24326040.44 24326040.52 0.2675 0.1773 *

Mars 61891-10-07 23:17 G 24326563.35 24326563.47 24326563.59 0.1625 0.0597

Neptune 61892-09-28 01:26 G 24326919.51 24326919.56 24326919.61 0.0089 0.0082

Earth 61892-11-02 15:22 G 24326955.03 24326955.14 24326955.25 0.2651 0.1817

Moon 61892-11-02 16:05 G 24326955.07 24326955.17 24326955.27 0.2646 0.1960 *

Neptune 61892-12-25 02:53 G 24327007.55 24327007.62 24327007.70 0.0089 0.0073

Saturn 61893-03-21 10:05 G 24327093.80 24327093.92 24327094.05 0.0281 0.0139

Neptune 61893-03-23 04:19 G 24327095.60 24327095.68 24327095.78 0.0089 0.0065

Saturn 61893-06-17 22:48 G 24327182.31 24327182.45 24327182.59 0.0281 0.0012

Neptune 61893-06-19 05:46 G 24327183.65 24327183.74 24327183.86 0.0089 0.0058

Saturn 61893-09-14 11:17 G 24327270.86 24327270.97 24327271.08 0.0282 0.0161

Neptune 61893-09-15 07:26 G 24327271.70 24327271.81 24327271.93 0.0089 0.0049

Neptune 61893-12-12 08:53 G 24327359.76 24327359.87 24327360.00 0.0089 0.0041

Neptune 61894-03-10 10:34 G 24327447.82 24327447.94 24327448.07 0.0089 0.0033

Neptune 61894-06-06 12:14 G 24327535.87 24327536.01 24327536.14 0.0089 0.0024

Neptune 61894-09-02 13:41 G 24327623.93 24327624.07 24327624.21 0.0089 0.0016

Neptune 61894-11-29 15:07 G 24327712.00 24327712.13 24327712.27 0.0089 0.0009

Jupiter 61895-02-25 02:24 G 24327799.47 24327799.60 24327799.73 0.0540 0.0109

Neptune 61895-02-25 16:48 G 24327800.06 24327800.20 24327800.33 0.0089 0.0002

Neptune 61895-05-24 18:14 G 24327888.12 24327888.26 24327888.40 0.0089 0.0008

Neptune 61895-08-20 19:41 G 24327976.19 24327976.32 24327976.46 0.0089 0.0016

Neptune 61895-11-16 21:07 G 24328064.25 24328064.38 24328064.52 0.0089 0.0024

Neptune 61896-02-12 22:34 G 24328152.32 24328152.44 24328152.57 0.0089 0.0032

Neptune 61896-05-11 00:00 G 24328240.39 24328240.50 24328240.63 0.0089 0.0040

Mars 61896-06-07 14:24 G 24328267.96 24328268.10 24328268.23 0.1898 0.0556

Neptune 61896-08-07 01:41 G 24328328.45 24328328.57 24328328.68 0.0089 0.0048

Neptune 61896-11-03 03:07 G 24328416.52 24328416.63 24328416.74 0.0089 0.0055

Neptune 61897-01-30 04:34 G 24328504.60 24328504.69 24328504.79 0.0089 0.0063

Earth 61897-04-25 18:58 G 24328590.20 24328590.29 24328590.38 0.2684 0.1643

Moon 61897-04-25 19:12 G 24328590.21 24328590.30 24328590.39 0.2691 0.1691 *

Neptune 61897-04-28 05:46 G 24328592.67 24328592.74 24328592.83 0.0089 0.0071

Neptune 61897-07-25 07:12 G 24328680.75 24328680.80 24328680.87 0.0089 0.0079

Neptune 61897-10-21 08:38 G 24328768.85 24328768.86 24328768.90 0.0089 0.0087

Mars 61901-02-28 08:53 G 24329993.80 24329993.87 24329993.93 0.1623 0.1411

Jupiter 61901-04-09 08:10 G 24330033.68 24330033.84 24330034.00 0.0488 0.0202

Uranus 61904-05-27 04:34 G 24331177.64 24331177.69 24331177.75 0.0141 0.0134

Uranus 61904-08-23 11:31 G 24331265.87 24331265.98 24331266.11 0.0141 0.0106

Uranus 61904-11-19 18:29 G 24331354.13 24331354.27 24331354.43 0.0141 0.0078

Uranus 61905-02-16 01:41 G 24331442.40 24331442.57 24331442.75 0.0141 0.0049

Uranus 61905-05-15 08:53 G 24331530.69 24331530.87 24331531.05 0.0141 0.0020

Uranus 61905-08-11 16:05 G 24331618.99 24331619.17 24331619.36 0.0140 0.0009

Uranus 61905-11-07 23:17 G 24331707.29 24331707.47 24331707.65 0.0140 0.0038

Uranus 61906-02-04 06:29 G 24331795.61 24331795.77 24331795.93 0.0140 0.0067

Uranus 61906-05-03 13:26 G 24331883.94 24331884.06 24331884.21 0.0140 0.0097

Uranus 61906-07-30 20:53 G 24331972.30 24331972.37 24331972.46 0.0140 0.0126

Jupiter 61906-12-15 05:46 G 24332109.63 24332109.74 24332109.86 0.0540 0.0289

Jupiter 61907-03-14 15:50 G 24332199.09 24332199.16 24332199.22 0.0538 0.0458

Saturn 61907-04-14 10:19 G 24332229.84 24332229.93 24332230.03 0.0278 0.0227

Saturn 61907-07-12 05:31 G 24332318.56 24332318.73 24332318.90 0.0278 0.0047

Saturn 61907-10-09 00:58 G 24332407.39 24332407.54 24332407.70 0.0278 0.0135

Venus 61908-09-28 02:10 G 24332762.52 24332762.59 24332762.67 0.3688 0.3172

Earth 61910-04-29 13:41 G 24333340.96 24333341.07 24333341.19 0.2683 0.0430

Moon 61910-04-29 14:24 G 24333340.99 24333341.10 24333341.22 0.2685 0.0284 *

Mars 61912-06-26 04:34 G 24334129.60 24334129.69 24334129.78 0.1630 0.1150

Venus 61912-09-26 14:24 G 24334222.03 24334222.10 24334222.18 0.3682 0.2510

Earth 61912-10-29 14:10 G 24334254.98 24334255.09 24334255.20 0.2648 0.1791

Moon 61912-10-29 15:22 G 24334255.03 24334255.14 24334255.26 0.2650 0.1591 *

Jupiter 61913-01-26 07:55 G 24334343.72 24334343.83 24334343.93 0.0488 0.0382

Jupiter 61913-04-26 08:24 G 24334433.74 24334433.85 24334433.97 0.0490 0.0366

Venus 61918-04-12 06:29 G 24336245.67 24336245.77 24336245.87 0.3682 0.0168

Jupiter 61918-10-03 08:53 G 24336419.81 24336419.87 24336419.94 0.0540 0.0476

Jupiter 61918-12-31 19:12 G 24336509.19 24336509.30 24336509.42 0.0538 0.0281

Mars 61921-11-16 13:55 G 24337559.96 24337560.08 24337560.21 0.1627 0.0354

Saturn 61922-08-09 11:02 G 24337825.86 24337825.96 24337826.07 0.0281 0.0193

Saturn 61922-11-05 23:46 G 24337914.36 24337914.49 24337914.63 0.0281 0.0042

Saturn 61923-02-02 12:29 G 24338002.89 24338003.02 24338003.14 0.0282 0.0109

Saturn 61923-05-02 00:43 G 24338091.48 24338091.53 24338091.59 0.0282 0.0257

Earth 61923-05-02 08:24 G 24338091.75 24338091.85 24338091.96 0.2682 0.0791

Moon 61923-05-02 09:22 G 24338091.78 24338091.89 24338091.99 0.2680 0.0831 *

Venus 61923-10-26 22:19 G 24338269.36 24338269.43 24338269.50 0.3681 0.2780

Jupiter 61925-02-12 07:41 G 24338743.66 24338743.82 24338743.99 0.0490 0.0178

Earth 61925-11-01 17:31 G 24339006.09 24339006.23 24339006.38 0.2650 0.0177

Moon 61925-11-01 18:58 G 24339006.14 24339006.29 24339006.44 0.2647 0.0290 *

Mars 61926-07-18 14:10 G 24339264.99 24339265.09 24339265.18 0.1895 0.1394

Earth 61930-04-25 04:48 G 24340641.69 24340641.70 24340641.71 0.2685 0.2663

Jupiter 61930-10-19 22:19 G 24340819.30 24340819.43 24340819.56 0.0539 0.0094

Mars 61931-04-08 23:31 G 24340990.36 24340990.48 24340990.61 0.1625 0.0458

Mars 61935-12-08 14:53 G 24342694.98 24342695.12 24342695.26 0.1898 0.0350

Earth 61936-05-04 03:07 G 24342842.55 24342842.63 24342842.70 0.2680 0.1956

Moon 61936-05-04 03:22 G 24342842.57 24342842.64 24342842.71 0.2674 0.2009 *

Saturn 61936-08-31 10:19 G 24342961.92 24342961.93 24342961.94 0.0278 0.0277

Saturn 61936-11-28 05:17 G 24343050.57 24343050.72 24343050.89 0.0278 0.0099

Jupiter 61936-12-01 07:26 G 24343053.63 24343053.81 24343053.98 0.0489 0.0005

Saturn 61937-02-25 00:43 G 24343139.37 24343139.53 24343139.70 0.0278 0.0084

Saturn 61937-05-24 20:24 G 24343228.32 24343228.35 24343228.40 0.0277 0.0268

Earth 61938-11-04 21:36 G 24343757.32 24343757.40 24343757.48 0.2651 0.2192

Moon 61938-11-04 22:05 G 24343757.34 24343757.42 24343757.50 0.2645 0.2199 *

Mars 61940-08-29 08:53 G 24344420.79 24344420.87 24344420.95 0.1623 0.1277

Jupiter 61942-08-08 00:29 G 24345129.39 24345129.52 24345129.65 0.0539 0.0114

Earth 61943-04-28 00:00 G 24345392.40 24345392.50 24345392.59 0.2684 0.1416

Moon 61943-04-28 00:14 G 24345392.41 24345392.51 24345392.61 0.2690 0.1328 *

Uranus 61947-11-25 02:38 G 24347064.58 24347064.61 24347064.67 0.0137 0.0131

Uranus 61948-02-21 06:29 G 24347152.69 24347152.77 24347152.86 0.0137 0.0109

Uranus 61948-05-19 09:50 G 24347240.82 24347240.91 24347241.03 0.0137 0.0090

Uranus 61948-08-15 13:41 G 24347328.95 24347329.07 24347329.19 0.0137 0.0069

Jupiter 61948-09-19 06:43 G 24347363.63 24347363.78 24347363.94 0.0488 0.0190

Uranus 61948-11-11 17:17 G 24347417.09 24347417.22 24347417.35 0.0138 0.0048

Uranus 61949-02-07 20:38 G 24347505.23 24347505.36 24347505.50 0.0138 0.0028

Uranus 61949-05-07 00:14 G 24347593.37 24347593.51 24347593.65 0.0138 0.0008

Uranus 61949-08-03 03:50 G 24347681.52 24347681.66 24347681.79 0.0138 0.0013

Uranus 61949-10-30 07:12 G 24347769.67 24347769.80 24347769.93 0.0138 0.0033

Uranus 61950-01-26 10:34 G 24347857.82 24347857.94 24347858.07 0.0138 0.0053

Uranus 61950-04-24 13:55 G 24347945.98 24347946.08 24347946.20 0.0138 0.0073

Uranus 61950-07-21 17:31 G 24348034.13 24348034.23 24348034.33 0.0138 0.0093

Uranus 61950-10-17 20:53 G 24348122.30 24348122.37 24348122.45 0.0138 0.0113

Uranus 61951-01-14 00:29 G 24348210.49 24348210.52 24348210.55 0.0138 0.0133

Mars 61951-12-26 04:34 G 24348556.61 24348556.69 24348556.77 0.1629 0.1274

Saturn 61951-12-27 14:53 G 24348558.03 24348558.12 24348558.21 0.0281 0.0216

Saturn 61952-03-25 03:36 G 24348646.52 24348646.65 24348646.79 0.0281 0.0064

Saturn 61952-06-21 16:05 G 24348735.04 24348735.17 24348735.31 0.0282 0.0087

Saturn 61952-09-18 04:34 G 24348823.62 24348823.69 24348823.77 0.0282 0.0234

Jupiter 61954-05-27 03:36 G 24349439.54 24349439.65 24349439.76 0.0540 0.0304

Jupiter 61954-08-24 13:26 G 24349528.99 24349529.06 24349529.13 0.0538 0.0443

Earth 61956-04-29 18:43 G 24350143.17 24350143.28 24350143.39 0.2683 0.0187

Moon 61956-04-29 19:26 G 24350143.20 24350143.31 24350143.43 0.2684 0.0187 *

Earth 61958-10-30 20:24 G 24351057.22 24351057.35 24351057.47 0.2649 0.1436

Moon 61958-10-30 21:50 G 24351057.28 24351057.41 24351057.53 0.2648 0.1386 *

Jupiter 61960-07-08 05:46 G 24351673.63 24351673.74 24351673.84 0.0488 0.0383

Jupiter 61960-10-06 06:14 G 24351763.65 24351763.76 24351763.88 0.0490 0.0364

Mars 61961-05-17 14:10 G 24351986.97 24351987.09 24351987.21 0.1627 0.0479

Venus 61965-05-05 03:22 G 24353435.50 24353435.64 24353435.78 0.3689 0.0771

Mars 61966-01-16 14:24 G 24353692.02 24353692.10 24353692.18 0.1895 0.1580

Jupiter 61966-03-15 06:43 G 24353749.73 24353749.78 24353749.84 0.0541 0.0488

Saturn 61966-04-17 06:29 G 24353782.62 24353782.77 24353782.92 0.0278 0.0139

Jupiter 61966-06-12 17:17 G 24353839.10 24353839.22 24353839.33 0.0539 0.0271

Saturn 61966-07-15 01:41 G 24353871.40 24353871.57 24353871.74 0.0278 0.0042

Saturn 61966-10-11 21:07 G 24353960.29 24353960.38 24353960.49 0.0277 0.0226

Earth 61969-05-02 13:26 G 24354893.95 24354894.06 24354894.17 0.2681 0.1006

Moon 61969-05-02 14:10 G 24354893.98 24354894.09 24354894.19 0.2679 0.1139 *

Venus 61969-05-03 12:00 G 24354894.91 24354895.00 24354895.10 0.3682 0.1494

Mars 61970-10-07 23:46 G 24355417.36 24355417.49 24355417.61 0.1625 0.0329

Earth 61971-11-02 23:46 G 24355808.35 24355808.49 24355808.64 0.2650 0.0523

Moon 61971-11-03 00:58 G 24355808.40 24355808.54 24355808.69 0.2647 0.0691 *

Jupiter 61972-07-25 05:31 G 24356073.57 24356073.73 24356073.89 0.0489 0.0175

Venus 61974-11-17 04:05 G 24356918.57 24356918.67 24356918.76 0.3681 0.1164

Mars 61975-06-08 15:07 G 24357121.99 24357122.13 24357122.28 0.1898 0.0155

Moon 61976-04-25 09:50 G 24357443.86 24357443.91 24357443.95 0.2692 0.2439

Earth 61976-04-25 09:50 G 24357443.86 24357443.91 24357443.96 0.2685 0.2424 *

Neptune 61976-08-27 16:19 G 24357568.11 24357568.18 24357568.27 0.0088 0.0078

Neptune 61976-11-23 19:12 G 24357656.20 24357656.30 24357656.43 0.0088 0.0068

Neptune 61977-02-19 22:19 G 24357744.30 24357744.43 24357744.57 0.0088 0.0058

Neptune 61977-05-19 01:12 G 24357832.41 24357832.55 24357832.72 0.0088 0.0049

Neptune 61977-08-15 04:19 G 24357920.53 24357920.68 24357920.85 0.0088 0.0038

Neptune 61977-11-11 07:26 G 24358008.64 24358008.81 24358008.99 0.0088 0.0028

Neptune 61978-02-07 10:34 G 24358096.76 24358096.94 24358097.12 0.0088 0.0018

Jupiter 61978-03-31 20:38 G 24358149.23 24358149.36 24358149.49 0.0539 0.0091

Neptune 61978-05-06 13:41 G 24358184.89 24358185.07 24358185.26 0.0088 0.0008

Neptune 61978-08-02 16:48 G 24358273.02 24358273.20 24358273.38 0.0088 0.0003

Neptune 61978-10-29 19:55 G 24358361.15 24358361.33 24358361.51 0.0088 0.0013

Neptune 61979-01-25 23:02 G 24358449.28 24358449.46 24358449.64 0.0088 0.0023

Neptune 61979-04-24 01:55 G 24358537.42 24358537.58 24358537.76 0.0088 0.0034

Neptune 61979-07-21 05:02 G 24358625.56 24358625.71 24358625.88 0.0088 0.0044

Neptune 61979-10-17 08:24 G 24358713.71 24358713.85 24358714.00 0.0088 0.0055

Neptune 61980-01-13 11:17 G 24358801.86 24358801.97 24358802.11 0.0088 0.0065

Mars 61980-02-28 09:07 G 24358847.79 24358847.88 24358847.97 0.1623 0.1139

Neptune 61980-04-10 14:38 G 24358890.02 24358890.11 24358890.21 0.0088 0.0076

Neptune 61980-07-07 17:31 G 24358978.21 24358978.23 24358978.28 0.0088 0.0087

Saturn 61981-05-15 16:05 G 24359290.13 24359290.17 24359290.21 0.0281 0.0267

Saturn 61981-08-12 04:48 G 24359378.57 24359378.70 24359378.83 0.0281 0.0115

Saturn 61981-11-08 17:31 G 24359467.09 24359467.23 24359467.37 0.0282 0.0036

Saturn 61982-02-05 06:00 G 24359555.65 24359555.75 24359555.85 0.0282 0.0185

Earth 61982-05-05 07:55 G 24359644.77 24359644.83 24359644.90 0.2680 0.2177

Moon 61982-05-05 08:24 G 24359644.78 24359644.85 24359644.91 0.2673 0.2161 *

Jupiter 61984-05-13 04:48 G 24360383.53 24360383.70 24360383.88 0.0489 0.0015

Mars 61984-10-28 16:05 G 24360552.15 24360552.17 24360552.19 0.1901 0.1872

Earth 61984-11-05 03:50 G 24360559.62 24360559.66 24360559.69 0.2652 0.2559

Moon 61984-11-05 04:05 G 24360559.64 24360559.67 24360559.70 0.2645 0.2578 *

Uranus 61988-06-16 12:14 G 24361878.93 24361879.01 24361879.09 0.0141 0.0125

Uranus 61988-09-12 18:58 G 24361967.17 24361967.29 24361967.43 0.0141 0.0097

Uranus 61988-12-10 01:55 G 24362055.44 24362055.58 24362055.75 0.0141 0.0069

Uranus 61989-03-08 09:22 G 24362143.71 24362143.89 24362144.07 0.0141 0.0039

Earth 61989-04-28 04:48 G 24362194.60 24362194.70 24362194.81 0.2684 0.1181

Moon 61989-04-28 05:17 G 24362194.62 24362194.72 24362194.82 0.2689 0.1164 *

Uranus 61989-06-04 16:34 G 24362232.00 24362232.19 24362232.37 0.0141 0.0011

Uranus 61989-08-31 23:31 G 24362320.30 24362320.48 24362320.67 0.0140 0.0019

Uranus 61989-11-28 06:43 G 24362408.61 24362408.78 24362408.96 0.0140 0.0047

Jupiter 61990-01-17 23:31 G 24362459.35 24362459.48 24362459.62 0.0539 0.0100

Uranus 61990-02-24 13:55 G 24362496.93 24362497.08 24362497.24 0.0140 0.0077

Uranus 61990-05-23 21:22 G 24362585.27 24362585.39 24362585.51 0.0140 0.0106

Uranus 61990-08-20 04:19 G 24362673.64 24362673.68 24362673.74 0.0140 0.0135

Mars 61991-06-26 04:48 G 24362983.63 24362983.70 24362983.76 0.1629 0.1407

Pluto 61993-03-03 23:17 G 24363600.42 24363600.47 24363600.55 0.0066 0.0059

Pluto 61993-05-31 00:14 G 24363688.42 24363688.51 24363688.61 0.0066 0.0048

Pluto 61993-08-27 00:29 G 24363776.42 24363776.52 24363776.66 0.0066 0.0038

Pluto 61993-11-23 01:26 G 24363864.43 24363864.56 24363864.70 0.0066 0.0027

Pluto 61994-02-19 02:10 G 24363952.45 24363952.59 24363952.73 0.0066 0.0016

Pluto 61994-05-18 02:53 G 24364040.47 24364040.62 24364040.76 0.0066 0.0005

Pluto 61994-08-14 03:22 G 24364128.50 24364128.64 24364128.79 0.0066 0.0006

Pluto 61994-11-10 04:05 G 24364216.53 24364216.67 24364216.81 0.0066 0.0016

Pluto 61995-02-06 04:34 G 24364304.57 24364304.69 24364304.83 0.0067 0.0028

Pluto 61995-05-05 05:02 G 24364392.61 24364392.71 24364392.84 0.0067 0.0039

Pluto 61995-08-01 05:46 G 24364480.66 24364480.74 24364480.85 0.0067 0.0050

Saturn 61995-09-04 06:00 G 24364514.63 24364514.75 24364514.88 0.0278 0.0191

Pluto 61995-10-28 06:43 G 24364568.72 24364568.78 24364568.84 0.0067 0.0060

Saturn 61995-12-02 01:26 G 24364603.38 24364603.56 24364603.73 0.0278 0.0012

Saturn 61996-02-28 20:53 G 24364692.23 24364692.37 24364692.51 0.0277 0.0171

Jupiter 61996-03-01 04:34 G 24364693.54 24364693.69 24364693.85 0.0489 0.0191

Mars 62000-11-15 14:10 G 24366413.98 24366414.09 24366414.21 0.1627 0.0611

63RD MILLENNIUM CE

This is a list of transits of Mercury in the 63rd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Jupiter 62001-11-06 01:41 G 24366769.46 24366769.57 24366769.68 0.0540 0.0308

Jupiter 62002-02-03 11:46 G 24366858.91 24366858.99 24366859.06 0.0538 0.0439

Earth 62002-04-30 23:46 G 24366945.37 24366945.49 24366945.60 0.2682 0.0092

Moon 62002-05-01 00:29 G 24366945.41 24366945.52 24366945.63 0.2684 0.0195 *

Earth 62004-10-31 02:24 G 24367859.47 24367859.60 24367859.73 0.2649 0.1086

Moon 62004-10-31 03:50 G 24367859.52 24367859.66 24367859.80 0.2648 0.0833 *

Mars 62005-07-17 14:38 G 24368119.07 24368119.11 24368119.16 0.1895 0.1779

Jupiter 62007-12-19 04:05 G 24369003.57 24369003.67 24369003.79 0.0488 0.0373

Jupiter 62008-03-18 04:48 G 24369093.59 24369093.70 24369093.81 0.0490 0.0376

Mars 62010-04-07 23:46 G 24369844.36 24369844.49 24369844.62 0.1625 0.0195

Saturn 62010-12-30 08:24 G 24370110.73 24370110.85 24370110.98 0.0281 0.0139

Saturn 62011-03-28 21:07 G 24370199.25 24370199.38 24370199.52 0.0282 0.0015

Saturn 62011-06-25 09:36 G 24370287.79 24370287.90 24370288.02 0.0282 0.0162

Jupiter 62013-08-25 04:19 G 24371079.64 24371079.68 24371079.73 0.0540 0.0504

Jupiter 62013-11-22 14:53 G 24371169.00 24371169.12 24371169.23 0.0538 0.0255

Mars 62014-12-07 15:22 G 24371548.99 24371549.14 24371549.28 0.1898 0.0059

Earth 62015-05-03 18:29 G 24371696.17 24371696.27 24371696.37 0.2681 0.1233

Moon 62015-05-03 18:58 G 24371696.19 24371696.29 24371696.39 0.2677 0.1226 *

Earth 62017-11-03 06:00 G 24372610.61 24372610.75 24372610.89 0.2650 0.0889

Moon 62017-11-03 06:58 G 24372610.65 24372610.79 24372610.93 0.2646 0.0934 *

Mars 62019-08-29 09:07 G 24373274.78 24373274.88 24373274.98 0.1623 0.1008

Jupiter 62020-01-05 03:07 G 24373403.47 24373403.63 24373403.80 0.0489 0.0172

Venus 62020-05-24 17:31 G 24373544.18 24373544.23 24373544.28 0.3683 0.3184

Venus 62021-12-10 04:19 G 24374108.55 24374108.68 24374108.81 0.3689 0.1646

Moon 62022-04-26 14:53 G 24374246.05 24374246.12 24374246.18 0.2692 0.2193

Earth 62022-04-26 14:53 G 24374246.06 24374246.12 24374246.19 0.2685 0.2188 *

Mars 62024-04-28 16:19 G 24374979.12 24374979.18 24374979.25 0.1901 0.1679

Saturn 62025-01-21 07:41 G 24375246.73 24375246.82 24375246.93 0.0278 0.0225

Saturn 62025-04-20 02:53 G 24375335.45 24375335.62 24375335.79 0.0278 0.0046

Saturn 62025-07-17 22:19 G 24375424.28 24375424.43 24375424.58 0.0278 0.0136

Jupiter 62025-09-10 18:29 G 24375479.14 24375479.27 24375479.40 0.0539 0.0079

Venus 62025-12-08 09:36 G 24375567.79 24375567.90 24375568.00 0.3682 0.0491

Earth 62028-05-05 12:58 G 24376446.99 24376447.04 24376447.09 0.2680 0.2391

Moon 62028-05-05 13:12 G 24376447.00 24376447.05 24376447.09 0.2673 0.2454 *

Mars 62030-12-25 04:48 G 24377410.66 24377410.70 24377410.74 0.1630 0.1533

Venus 62031-06-24 01:26 G 24377591.48 24377591.56 24377591.65 0.3681 0.2144

Jupiter 62031-10-24 02:38 G 24377713.43 24377713.61 24377713.78 0.0489 0.0017

Uranus 62031-12-15 10:05 G 24377765.87 24377765.92 24377765.98 0.0137 0.0124

Uranus 62032-03-12 13:41 G 24377853.99 24377854.07 24377854.17 0.0137 0.0104

Uranus 62032-06-08 17:17 G 24377942.12 24377942.22 24377942.33 0.0137 0.0083

Uranus 62032-09-04 20:53 G 24378030.25 24378030.37 24378030.50 0.0137 0.0063

Uranus 62032-12-02 00:29 G 24378118.39 24378118.52 24378118.65 0.0138 0.0043

Uranus 62033-02-28 04:05 G 24378206.53 24378206.67 24378206.80 0.0138 0.0022

Uranus 62033-05-27 07:26 G 24378294.68 24378294.81 24378294.95 0.0138 0.0004

Uranus 62033-08-23 11:02 G 24378382.82 24378382.96 24378383.09 0.0138 0.0018

Uranus 62033-11-19 14:24 G 24378470.97 24378471.10 24378471.23 0.0138 0.0039

Uranus 62034-02-15 18:00 G 24378559.13 24378559.25 24378559.37 0.0138 0.0058

Uranus 62034-05-14 21:22 G 24378647.28 24378647.39 24378647.50 0.0138 0.0079

Uranus 62034-08-11 00:58 G 24378735.44 24378735.54 24378735.63 0.0138 0.0099

Uranus 62034-11-07 04:19 G 24378823.61 24378823.68 24378823.75 0.0138 0.0118

Earth 62035-04-29 09:50 G 24378996.80 24378996.91 24378997.02 0.2684 0.0947

Moon 62035-04-29 10:34 G 24378996.83 24378996.94 24378997.04 0.2688 0.0873 *

Jupiter 62037-06-29 21:50 G 24379789.28 24379789.41 24379789.54 0.0539 0.0103

Earth 62037-10-29 05:17 G 24379910.71 24379910.72 24379910.74 0.2648 0.2632

Moon 62037-10-29 06:29 G 24379910.72 24379910.77 24379910.83 0.2650 0.2453 *

Mars 62040-05-16 14:24 G 24380840.99 24380841.10 24380841.21 0.1627 0.0742

Saturn 62040-05-18 09:36 G 24380842.80 24380842.90 24380843.01 0.0281 0.0189

Saturn 62040-08-14 22:34 G 24380931.30 24380931.44 24380931.58 0.0281 0.0038

Saturn 62040-11-11 11:02 G 24381019.84 24381019.96 24381020.09 0.0282 0.0112

Saturn 62041-02-07 23:31 G 24381108.43 24381108.48 24381108.53 0.0282 0.0260

Jupiter 62043-08-12 01:55 G 24382023.43 24382023.58 24382023.74 0.0488 0.0199

Earth 62048-05-01 04:34 G 24383747.58 24383747.69 24383747.81 0.2682 0.0278

Moon 62048-05-01 05:31 G 24383747.61 24383747.73 24383747.84 0.2683 0.0312 *

Jupiter 62049-04-18 00:43 G 24384099.42 24384099.53 24384099.64 0.0540 0.0295

Jupiter 62049-07-16 10:34 G 24384188.88 24384188.94 24384189.01 0.0538 0.0453

Mars 62049-10-07 00:00 G 24384271.37 24384271.50 24384271.63 0.1625 0.0075

Earth 62050-11-01 08:38 G 24384661.71 24384661.86 24384662.00 0.2649 0.0733

Moon 62050-11-01 10:05 G 24384661.78 24384661.92 24384662.06 0.2648 0.0683 *

Mars 62054-06-07 15:36 G 24385976.01 24385976.15 24385976.29 0.1898 0.0210

Saturn 62054-06-10 07:26 G 24385978.81 24385978.81 24385978.81 0.0278 0.0278

Saturn 62054-09-07 02:24 G 24386067.44 24386067.60 24386067.76 0.0278 0.0100

Saturn 62054-12-04 21:50 G 24386156.24 24386156.41 24386156.57 0.0277 0.0081

Saturn 62055-03-03 17:17 G 24386245.18 24386245.22 24386245.28 0.0277 0.0264

Jupiter 62055-05-31 01:55 G 24386333.48 24386333.58 24386333.69 0.0488 0.0375

Jupiter 62055-08-29 02:38 G 24386423.50 24386423.61 24386423.72 0.0490 0.0373

Neptune 62057-03-29 22:48 G 24387002.43 24387002.45 24387002.49 0.0089 0.0087

Neptune 62057-06-26 00:43 G 24387090.46 24387090.53 24387090.59 0.0089 0.0079

Neptune 62057-09-22 02:10 G 24387178.51 24387178.59 24387178.68 0.0089 0.0071

Neptune 62057-12-19 03:36 G 24387266.56 24387266.65 24387266.76 0.0089 0.0063

Neptune 62058-03-17 05:02 G 24387354.61 24387354.71 24387354.83 0.0089 0.0055

Neptune 62058-06-13 06:43 G 24387442.67 24387442.78 24387442.90 0.0089 0.0046

Neptune 62058-09-09 08:10 G 24387530.72 24387530.84 24387530.97 0.0089 0.0038

Neptune 62058-12-06 09:50 G 24387618.78 24387618.91 24387619.04 0.0089 0.0030

Mars 62059-02-27 09:07 G 24387701.78 24387701.88 24387701.99 0.1623 0.0877

Neptune 62059-03-04 11:17 G 24387706.84 24387706.97 24387707.11 0.0089 0.0022

Neptune 62059-05-31 12:58 G 24387794.90 24387795.04 24387795.18 0.0089 0.0014

Neptune 62059-08-27 14:24 G 24387882.96 24387883.10 24387883.24 0.0089 0.0006

Neptune 62059-11-23 15:50 G 24387971.03 24387971.16 24387971.30 0.0089 0.0004

Neptune 62060-02-19 17:31 G 24388059.09 24388059.23 24388059.36 0.0089 0.0011

Neptune 62060-05-17 18:58 G 24388147.16 24388147.29 24388147.42 0.0089 0.0018

Neptune 62060-08-13 20:24 G 24388235.22 24388235.35 24388235.48 0.0089 0.0026

Neptune 62060-11-09 21:50 G 24388323.29 24388323.41 24388323.54 0.0089 0.0035

Jupiter 62061-02-04 02:38 G 24388409.57 24388409.61 24388409.66 0.0540 0.0507

Neptune 62061-02-05 23:17 G 24388411.36 24388411.47 24388411.60 0.0089 0.0043

Earth 62061-05-03 23:17 G 24388498.38 24388498.47 24388498.57 0.2681 0.1448

Moon 62061-05-03 23:46 G 24388498.40 24388498.49 24388498.58 0.2676 0.1573 *

Jupiter 62061-05-04 13:12 G 24388498.93 24388499.05 24388499.16 0.0538 0.0252

Neptune 62061-05-05 00:43 G 24388499.43 24388499.53 24388499.65 0.0089 0.0050

Neptune 62061-08-01 02:10 G 24388587.50 24388587.59 24388587.70 0.0089 0.0058

Neptune 62061-10-28 03:36 G 24388675.57 24388675.65 24388675.75 0.0089 0.0066

Neptune 62062-01-24 05:02 G 24388763.65 24388763.71 24388763.80 0.0089 0.0074

Neptune 62062-04-22 06:43 G 24388851.73 24388851.78 24388851.83 0.0089 0.0082

Mars 62063-10-28 16:34 G 24389406.10 24389406.19 24389406.28 0.1901 0.1497

Earth 62063-11-04 12:00 G 24389412.87 24389413.00 24389413.14 0.2650 0.1249

Moon 62063-11-04 12:58 G 24389412.91 24389413.04 24389413.16 0.2645 0.1413 *

Jupiter 62067-06-17 01:41 G 24390733.41 24390733.57 24390733.73 0.0489 0.0182

Moon 62068-04-26 19:55 G 24391048.25 24391048.33 24391048.41 0.2691 0.1982

Earth 62068-04-26 19:55 G 24391048.25 24391048.33 24391048.41 0.2685 0.1954 *

Saturn 62069-10-05 13:12 G 24391574.96 24391575.05 24391575.14 0.0281 0.0214

Saturn 62070-01-02 02:10 G 24391663.45 24391663.59 24391663.72 0.0282 0.0062

Saturn 62070-03-31 14:38 G 24391751.98 24391752.11 24391752.25 0.0282 0.0089

Saturn 62070-06-28 03:07 G 24391840.56 24391840.63 24391840.71 0.0282 0.0237

Uranus 62072-07-06 19:55 G 24392580.23 24392580.33 24392580.44 0.0141 0.0115

Uranus 62072-10-03 02:53 G 24392668.49 24392668.62 24392668.77 0.0141 0.0087

Uranus 62072-12-30 10:05 G 24392756.76 24392756.92 24392757.09 0.0141 0.0058

Venus 62072-12-31 00:00 G 24392757.42 24392757.50 24392757.58 0.3688 0.2982

Jupiter 62073-02-20 16:05 G 24392809.04 24392809.17 24392809.31 0.0539 0.0066

Uranus 62073-03-28 17:02 G 24392845.04 24392845.21 24392845.40 0.0141 0.0030

Uranus 62073-06-25 00:14 G 24392933.33 24392933.51 24392933.70 0.0141 0.0002

Uranus 62073-09-21 07:26 G 24393021.63 24393021.81 24393021.99 0.0141 0.0028

Uranus 62073-12-18 14:38 G 24393109.94 24393110.11 24393110.28 0.0140 0.0057

Uranus 62074-03-16 21:50 G 24393198.27 24393198.41 24393198.56 0.0140 0.0087

Moon 62074-05-06 17:46 G 24393249.21 24393249.24 24393249.28 0.2673 0.2545

Earth 62074-05-06 17:46 G 24393249.22 24393249.24 24393249.26 0.2680 0.2607 *

Uranus 62074-06-13 04:48 G 24393286.61 24393286.70 24393286.82 0.0140 0.0116

Venus 62076-12-29 15:07 G 24394217.05 24394217.13 24394217.21 0.3682 0.2163

Jupiter 62079-04-05 00:14 G 24395043.33 24395043.51 24395043.68 0.0489 0.0020

Mars 62079-11-15 14:24 G 24395268.00 24395268.10 24395268.21 0.1627 0.0868

Pluto 62080-12-06 14:24 G 24395655.01 24395655.10 24395655.21 0.0078 0.0063

Pluto 62081-03-04 16:34 G 24395743.05 24395743.19 24395743.34 0.0078 0.0042

Earth 62081-04-29 14:53 G 24395799.01 24395799.12 24395799.23 0.2683 0.0723

Moon 62081-04-29 15:22 G 24395799.03 24395799.14 24395799.26 0.2688 0.0648 *

Pluto 62081-05-31 18:43 G 24395831.11 24395831.28 24395831.45 0.0078 0.0021

Pluto 62081-08-27 20:53 G 24395919.19 24395919.37 24395919.54 0.0078 0.0001

Pluto 62081-11-23 22:48 G 24396007.28 24396007.45 24396007.62 0.0077 0.0022

Pluto 62082-02-20 00:43 G 24396095.39 24396095.53 24396095.68 0.0077 0.0042

Pluto 62082-05-19 02:38 G 24396183.52 24396183.61 24396183.72 0.0077 0.0063

Venus 62082-07-15 07:12 G 24396240.69 24396240.80 24396240.90 0.3682 0.0529

Earth 62083-10-30 11:31 G 24396712.91 24396712.98 24396713.05 0.2648 0.2286

Moon 62083-10-30 12:58 G 24396712.96 24396713.04 24396713.12 0.2649 0.2188 *

Saturn 62084-01-25 04:34 G 24396799.54 24396799.69 24396799.84 0.0278 0.0130

Saturn 62084-04-22 23:46 G 24396888.32 24396888.49 24396888.66 0.0278 0.0050

Saturn 62084-07-20 19:12 G 24396977.21 24396977.30 24396977.40 0.0277 0.0233

Jupiter 62084-12-09 19:26 G 24397119.18 24397119.31 24397119.44 0.0540 0.0119

Venus 62088-01-28 23:02 G 24398264.40 24398264.46 24398264.51 0.3681 0.3122

Mars 62089-04-07 00:00 G 24398698.37 24398698.50 24398698.63 0.1625 0.0070

Jupiter 62091-01-21 23:46 G 24399353.33 24399353.49 24399353.65 0.0488 0.0202

Mars 62093-12-06 16:05 G 24400403.03 24400403.17 24400403.31 0.1898 0.0421

Earth 62094-05-02 09:36 G 24400549.79 24400549.90 24400550.01 0.2682 0.0492

Moon 62094-05-02 10:19 G 24400549.82 24400549.93 24400550.04 0.2681 0.0608 *

Jupiter 62096-09-27 22:48 G 24401429.34 24401429.45 24401429.56 0.0540 0.0301

Earth 62096-11-01 14:38 G 24401463.96 24401464.11 24401464.26 0.2649 0.0377

Moon 62096-11-01 16:05 G 24401464.02 24401464.17 24401464.32 0.2648 0.0150 *

Jupiter 62096-12-26 08:53 G 24401518.80 24401518.87 24401518.94 0.0538 0.0448

Mars 62098-08-28 09:22 G 24402128.78 24402128.89 24402129.01 0.1623 0.0738

Saturn 62099-02-22 14:38 G 24402307.06 24402307.11 24402307.15 0.0281 0.0263

Saturn 62099-05-22 03:22 G 24402395.52 24402395.64 24402395.77 0.0281 0.0111

Saturn 62099-08-18 16:05 G 24402484.03 24402484.17 24402484.31 0.0282 0.0040

Saturn 62099-11-15 04:34 G 24402572.59 24402572.69 24402572.80 0.0282 0.0188

Jupiter 62102-11-10 23:17 G 24403663.37 24403663.47 24403663.58 0.0488 0.0384

Jupiter 62103-02-08 23:46 G 24403753.38 24403753.49 24403753.61 0.0490 0.0364

Mars 62103-04-29 16:48 G 24403833.10 24403833.20 24403833.30 0.1901 0.1316

Earth 62107-05-06 04:19 G 24405300.59 24405300.68 24405300.77 0.2681 0.1673

Moon 62107-05-06 04:48 G 24405300.61 24405300.70 24405300.79 0.2676 0.1664 *

Mars 62108-01-19 18:43 G 24405559.25 24405559.28 24405559.31 0.1621 0.1557

Jupiter 62108-07-18 01:41 G 24405739.52 24405739.57 24405739.62 0.0540 0.0494

Jupiter 62108-10-15 12:14 G 24405828.89 24405829.01 24405829.12 0.0538 0.0266

Earth 62109-11-05 18:29 G 24406215.15 24406215.27 24406215.38 0.2651 0.1623

Moon 62109-11-05 19:12 G 24406215.18 24406215.30 24406215.42 0.2644 0.1588 *

Saturn 62113-06-14 03:36 G 24407531.53 24407531.65 24407531.78 0.0278 0.0188

Saturn 62113-09-10 22:48 G 24407620.28 24407620.45 24407620.63 0.0278 0.0010

Saturn 62113-12-08 18:14 G 24407709.13 24407709.26 24407709.40 0.0277 0.0174

Earth 62114-04-29 00:58 G 24407850.45 24407850.54 24407850.62 0.2685 0.1723

Moon 62114-04-29 01:12 G 24407850.46 24407850.55 24407850.64 0.2691 0.1646 *

Jupiter 62114-11-27 23:17 G 24408063.31 24408063.47 24408063.64 0.0489 0.0180

Uranus 62115-10-09 14:10 G 24408379.09 24408379.09 24408379.10 0.0137 0.0137

Uranus 62116-01-05 17:46 G 24408467.17 24408467.24 24408467.31 0.0137 0.0117

Uranus 62116-04-02 21:22 G 24408555.29 24408555.39 24408555.49 0.0137 0.0096

Uranus 62116-06-30 00:58 G 24408643.43 24408643.54 24408643.66 0.0137 0.0076

Uranus 62116-09-26 04:34 G 24408731.56 24408731.69 24408731.81 0.0137 0.0055

Uranus 62116-12-23 07:55 G 24408819.70 24408819.83 24408819.97 0.0138 0.0036

Uranus 62117-03-21 11:31 G 24408907.85 24408907.98 24408908.12 0.0138 0.0015

Uranus 62117-06-17 15:07 G 24408995.99 24408996.13 24408996.27 0.0138 0.0005

Uranus 62117-09-13 18:29 G 24409084.14 24409084.27 24409084.41 0.0138 0.0026

Uranus 62117-12-10 22:05 G 24409172.29 24409172.42 24409172.55 0.0138 0.0046

Uranus 62118-03-09 01:26 G 24409260.45 24409260.56 24409260.68 0.0138 0.0066

Uranus 62118-06-05 04:48 G 24409348.60 24409348.70 24409348.81 0.0138 0.0086

Uranus 62118-09-01 08:24 G 24409436.77 24409436.85 24409436.94 0.0138 0.0106

Uranus 62118-11-28 11:46 G 24409524.94 24409524.99 24409525.05 0.0138 0.0126

Mars 62119-05-17 14:38 G 24409695.01 24409695.11 24409695.21 0.1627 0.0997

Jupiter 62120-08-03 14:24 G 24410138.97 24410139.10 24410139.24 0.0539 0.0065

Jupiter 62126-09-15 22:48 G 24412373.27 24412373.45 24412373.62 0.0489 0.0013

Earth 62127-05-01 19:41 G 24412601.21 24412601.32 24412601.44 0.2683 0.0496

Moon 62127-05-01 20:24 G 24412601.24 24412601.35 24412601.47 0.2687 0.0433 *

Mars 62128-10-07 00:00 G 24413125.38 24413125.50 24413125.63 0.1625 0.0205

Saturn 62128-10-09 06:43 G 24413127.66 24413127.78 24413127.90 0.0281 0.0139

Saturn 62129-01-05 19:26 G 24413216.17 24413216.31 24413216.45 0.0282 0.0012

Saturn 62129-04-04 07:55 G 24413304.72 24413304.83 24413304.95 0.0282 0.0162

Venus 62129-08-08 00:58 G 24413430.39 24413430.54 24413430.68 0.3689 0.0647

Earth 62129-10-31 17:31 G 24413515.13 24413515.23 24413515.33 0.2648 0.1936

Moon 62129-10-31 18:58 G 24413515.19 24413515.29 24413515.40 0.2649 0.1775 *

Jupiter 62132-05-22 17:17 G 24414449.09 24414449.22 24414449.35 0.0539 0.0130

Mars 62133-06-07 16:05 G 24414830.03 24414830.17 24414830.31 0.1898 0.0575

Venus 62133-08-06 12:43 G 24414889.93 24414890.03 24414890.13 0.3682 0.1164

Mars 62138-02-27 09:36 G 24416555.78 24416555.90 24416556.02 0.1623 0.0607

Jupiter 62138-07-04 21:22 G 24416683.24 24416683.39 24416683.55 0.0488 0.0206

Venus 62139-02-20 04:34 G 24416913.59 24416913.69 24416913.78 0.3682 0.1486

Earth 62140-05-03 14:38 G 24417352.00 24417352.11 24417352.22 0.2682 0.0719

Moon 62140-05-03 15:22 G 24417352.03 24417352.14 24417352.25 0.2679 0.0792 *

Neptune 62141-02-26 11:02 G 24417650.93 24417650.96 24417651.01 0.0088 0.0085

Neptune 62141-05-25 13:55 G 24417739.00 24417739.08 24417739.19 0.0088 0.0076

Neptune 62141-08-21 17:02 G 24417827.10 24417827.21 24417827.34 0.0088 0.0065

Neptune 62141-11-17 20:10 G 24417915.20 24417915.34 24417915.49 0.0088 0.0055

Neptune 62142-02-13 23:02 G 24418003.31 24418003.46 24418003.63 0.0088 0.0045

Neptune 62142-05-13 02:10 G 24418091.43 24418091.59 24418091.76 0.0088 0.0035

Neptune 62142-08-09 05:17 G 24418179.55 24418179.72 24418179.90 0.0088 0.0025

Mars 62142-10-28 17:17 G 24418260.10 24418260.22 24418260.33 0.1901 0.1117

Saturn 62142-11-01 06:00 G 24418263.65 24418263.75 24418263.86 0.0278 0.0215

Earth 62142-11-03 20:53 G 24418266.22 24418266.37 24418266.52 0.2649 0.0026

Moon 62142-11-03 22:05 G 24418266.27 24418266.42 24418266.57 0.2646 0.0042 *

Neptune 62142-11-05 08:10 G 24418267.67 24418267.84 24418268.03 0.0088 0.0016

Saturn 62143-01-29 01:12 G 24418352.38 24418352.55 24418352.72 0.0278 0.0036

Neptune 62143-02-01 11:31 G 24418355.79 24418355.98 24418356.16 0.0088 0.0005

Saturn 62143-04-27 20:24 G 24418441.21 24418441.35 24418441.50 0.0278 0.0146

Neptune 62143-04-30 14:24 G 24418443.92 24418444.10 24418444.29 0.0088 0.0006

Neptune 62143-07-27 17:31 G 24418532.05 24418532.23 24418532.42 0.0088 0.0016

Neptune 62143-10-23 20:38 G 24418620.19 24418620.36 24418620.54 0.0088 0.0026

Neptune 62144-01-19 23:31 G 24418708.33 24418708.48 24418708.66 0.0088 0.0037

Jupiter 62144-03-10 20:38 G 24418759.25 24418759.36 24418759.46 0.0540 0.0316

Neptune 62144-04-17 02:38 G 24418796.47 24418796.61 24418796.78 0.0088 0.0048

Jupiter 62144-06-08 06:43 G 24418848.70 24418848.78 24418848.85 0.0538 0.0436

Neptune 62144-07-14 06:00 G 24418884.62 24418884.75 24418884.89 0.0088 0.0058

Neptune 62144-10-10 08:53 G 24418972.77 24418972.87 24418973.00 0.0088 0.0068

Neptune 62145-01-06 12:14 G 24419060.94 24419061.01 24419061.10 0.0088 0.0079

Mars 62147-07-20 18:58 G 24419986.22 24419986.29 24419986.35 0.1622 0.1423

Jupiter 62150-04-22 21:07 G 24420993.28 24420993.38 24420993.49 0.0488 0.0385

Jupiter 62150-07-21 21:22 G 24421083.28 24421083.39 24421083.52 0.0489 0.0360

Earth 62153-05-06 09:07 G 24422102.80 24422102.88 24422102.96 0.2681 0.1889

Moon 62153-05-06 09:36 G 24422102.82 24422102.90 24422102.98 0.2675 0.1977 *

Earth 62155-11-07 00:29 G 24423017.43 24423017.52 24423017.62 0.2651 0.1988

Moon 62155-11-07 01:12 G 24423017.47 24423017.55 24423017.64 0.2645 0.2146 *

Jupiter 62155-12-28 23:46 G 24423069.44 24423069.49 24423069.54 0.0541 0.0501

Jupiter 62156-03-27 10:19 G 24423158.81 24423158.93 24423159.04 0.0539 0.0260

Uranus 62156-04-30 20:53 G 24423193.32 24423193.37 24423193.44 0.0141 0.0133

Uranus 62156-07-28 03:50 G 24423281.55 24423281.66 24423281.79 0.0141 0.0105

Uranus 62156-10-24 11:02 G 24423369.81 24423369.96 24423370.11 0.0141 0.0076

Uranus 62157-01-20 18:00 G 24423458.08 24423458.25 24423458.43 0.0141 0.0048

Uranus 62157-04-19 01:12 G 24423546.37 24423546.55 24423546.73 0.0141 0.0019

Uranus 62157-07-16 08:24 G 24423634.66 24423634.85 24423635.03 0.0141 0.0011

Uranus 62157-10-12 15:22 G 24423722.97 24423723.14 24423723.32 0.0141 0.0040

Uranus 62158-01-08 22:34 G 24423811.28 24423811.44 24423811.61 0.0140 0.0069

Saturn 62158-02-26 08:10 G 24423859.73 24423859.84 24423859.94 0.0281 0.0188

Uranus 62158-04-07 05:46 G 24423899.62 24423899.74 24423899.88 0.0140 0.0098

Saturn 62158-05-25 20:53 G 24423948.23 24423948.37 24423948.51 0.0281 0.0037

Uranus 62158-07-04 12:58 G 24423987.97 24423988.04 24423988.13 0.0140 0.0127

Saturn 62158-08-22 09:22 G 24424036.77 24424036.89 24424037.02 0.0282 0.0114

Mars 62158-11-15 14:38 G 24424122.02 24424122.11 24424122.20 0.1627 0.1127

Saturn 62158-11-18 21:50 G 24424125.36 24424125.41 24424125.46 0.0282 0.0261

Earth 62160-04-29 05:46 G 24424652.65 24424652.74 24424652.84 0.2684 0.1485

Moon 62160-04-29 06:14 G 24424652.67 24424652.76 24424652.86 0.2690 0.1507 *

Jupiter 62162-05-09 20:38 G 24425393.20 24425393.36 24425393.53 0.0489 0.0171

Jupiter 62168-01-14 13:26 G 24427468.93 24427469.06 24427469.19 0.0539 0.0077

Mars 62168-04-07 00:14 G 24427552.38 24427552.51 24427552.64 0.1625 0.0332

Saturn 62172-03-20 04:48 G 24428995.68 24428995.70 24428995.73 0.0278 0.0275

Saturn 62172-06-16 23:46 G 24429084.34 24429084.49 24429084.66 0.0278 0.0098

Saturn 62172-09-13 19:12 G 24429173.14 24429173.30 24429173.47 0.0278 0.0083

Mars 62172-12-06 16:34 G 24429257.06 24429257.19 24429257.32 0.1898 0.0783

Saturn 62172-12-11 14:38 G 24429262.07 24429262.11 24429262.16 0.0277 0.0267

Earth 62173-05-02 00:43 G 24429403.42 24429403.53 24429403.65 0.2683 0.0261

Moon 62173-05-02 01:26 G 24429403.45 24429403.56 24429403.67 0.2686 0.0143 *

Jupiter 62174-02-25 20:24 G 24429703.18 24429703.35 24429703.53 0.0489 0.0017

Earth 62175-11-01 23:31 G 24430317.37 24430317.48 24430317.60 0.2648 0.1596

Moon 62175-11-02 00:58 G 24430317.42 24430317.54 24430317.67 0.2650 0.1454 *

Mars 62177-08-28 09:36 G 24430982.78 24430982.90 24430983.02 0.1623 0.0477

Jupiter 62179-11-02 15:50 G 24431779.03 24431779.16 24431779.29 0.0539 0.0127

Mars 62182-04-28 17:17 G 24432687.10 24432687.22 24432687.35 0.1901 0.0944

Venus 62184-08-27 18:00 G 24433539.19 24433539.25 24433539.32 0.3683 0.2854

Jupiter 62185-12-14 19:55 G 24434013.18 24434013.33 24434013.49 0.0488 0.0196

Venus 62186-03-15 01:55 G 24434103.45 24434103.58 24434103.71 0.3689 0.1764

Earth 62186-05-04 19:26 G 24434154.21 24434154.31 24434154.42 0.2682 0.0943

Moon 62186-05-04 20:10 G 24434154.24 24434154.34 24434154.45 0.2679 0.1012 *

Mars 62187-01-18 18:58 G 24434413.21 24434413.29 24434413.37 0.1622 0.1289

Saturn 62187-07-16 10:48 G 24434591.87 24434591.95 24434592.04 0.0281 0.0220

Saturn 62187-10-12 23:46 G 24434680.36 24434680.49 24434680.63 0.0282 0.0068

Saturn 62188-01-09 12:29 G 24434768.89 24434769.02 24434769.15 0.0282 0.0082

Saturn 62188-04-07 00:58 G 24434857.46 24434857.54 24434857.62 0.0282 0.0231

Earth 62188-11-04 03:07 G 24435068.48 24435068.63 24435068.77 0.2650 0.0354

Moon 62188-11-04 04:05 G 24435068.53 24435068.67 24435068.82 0.2645 0.0500 *

Venus 62190-03-13 10:05 G 24435562.82 24435562.92 24435563.03 0.3682 0.0170

Jupiter 62191-08-21 18:43 G 24436089.17 24436089.28 24436089.38 0.0540 0.0322

Jupiter 62191-11-19 04:48 G 24436178.62 24436178.70 24436178.78 0.0538 0.0428

Moon 62193-04-27 15:36 G 24436704.12 24436704.15 24436704.18 0.2692 0.2588

Earth 62193-04-27 15:50 G 24436704.12 24436704.16 24436704.20 0.2685 0.2500 *

Venus 62195-09-27 02:10 G 24437586.51 24437586.59 24437586.66 0.3681 0.2479

Jupiter 62197-10-02 18:58 G 24438323.19 24438323.29 24438323.39 0.0488 0.0387

Jupiter 62197-12-31 19:12 G 24438413.19 24438413.30 24438413.42 0.0489 0.0357

Mars 62198-05-16 14:53 G 24438549.04 24438549.12 24438549.20 0.1627 0.1255

Earth 62199-05-07 14:10 G 24438905.02 24438905.09 24438905.15 0.2681 0.2110

Moon 62199-05-07 14:24 G 24438905.03 24438905.10 24438905.17 0.2675 0.2107 *

Uranus 62199-10-29 21:36 G 24439080.36 24439080.40 24439080.44 0.0137 0.0130

Uranus 62200-01-26 00:58 G 24439168.47 24439168.54 24439168.63 0.0137 0.0110

Uranus 62200-04-24 04:48 G 24439256.59 24439256.70 24439256.80 0.0137 0.0090

Uranus 62200-07-21 08:10 G 24439344.73 24439344.84 24439344.97 0.0137 0.0070

Uranus 62200-10-17 11:46 G 24439432.87 24439432.99 24439433.12 0.0137 0.0049

Uranus 62201-01-13 15:22 G 24439521.01 24439521.14 24439521.28 0.0137 0.0029

Uranus 62201-04-11 18:58 G 24439609.15 24439609.29 24439609.43 0.0138 0.0009

Uranus 62201-07-08 22:19 G 24439697.30 24439697.43 24439697.57 0.0138 0.0013

Uranus 62201-10-05 01:55 G 24439785.45 24439785.58 24439785.71 0.0138 0.0032

Saturn 62201-11-05 02:10 G 24439816.44 24439816.59 24439816.75 0.0278 0.0125

Earth 62201-11-08 06:58 G 24439819.72 24439819.79 24439819.85 0.2651 0.2367

Moon 62201-11-08 07:26 G 24439819.74 24439819.81 24439819.88 0.2645 0.2320 *

Uranus 62202-01-01 05:31 G 24439873.60 24439873.73 24439873.85 0.0138 0.0052

Saturn 62202-02-01 21:22 G 24439905.22 24439905.39 24439905.56 0.0278 0.0055

Uranus 62202-03-30 08:53 G 24439961.76 24439961.87 24439961.99 0.0138 0.0072

Saturn 62202-05-01 16:48 G 24439994.12 24439994.20 24439994.30 0.0277 0.0238

Uranus 62202-06-26 12:14 G 24440049.92 24440050.01 24440050.12 0.0138 0.0092

Uranus 62202-09-22 15:36 G 24440138.08 24440138.15 24440138.24 0.0138 0.0113

Uranus 62202-12-19 19:12 G 24440226.27 24440226.30 24440226.34 0.0138 0.0132

Jupiter 62203-06-10 21:36 G 24440399.36 24440399.40 24440399.44 0.0541 0.0514

Jupiter 62203-09-08 08:10 G 24440488.72 24440488.84 24440488.96 0.0539 0.0249

Earth 62206-05-01 10:48 G 24441454.85 24441454.95 24441455.05 0.2684 0.1251

Moon 62206-05-01 11:17 G 24441454.87 24441454.97 24441455.08 0.2690 0.1129 *

Mars 62207-10-08 00:14 G 24441979.39 24441979.51 24441979.64 0.1625 0.0465

Jupiter 62209-10-20 18:43 G 24442723.11 24442723.28 24442723.44 0.0489 0.0169

Mars 62212-06-07 17:02 G 24443684.08 24443684.21 24443684.33 0.1898 0.0980

Jupiter 62215-06-27 11:46 G 24444798.86 24444798.99 24444799.12 0.0539 0.0072

Saturn 62216-12-03 12:14 G 24445323.98 24445324.01 24445324.06 0.0280 0.0268

Mars 62217-02-27 09:50 G 24445409.78 24445409.91 24445410.04 0.1623 0.0340

Saturn 62217-03-02 01:12 G 24445412.43 24445412.55 24445412.68 0.0281 0.0116

Saturn 62217-05-29 13:55 G 24445500.94 24445501.08 24445501.22 0.0281 0.0035

Saturn 62217-08-26 02:24 G 24445589.50 24445589.60 24445589.71 0.0282 0.0183

Earth 62219-05-04 05:46 G 24446205.63 24446205.74 24446205.85 0.2683 0.0028

Moon 62219-05-04 06:29 G 24446205.66 24446205.77 24446205.89 0.2684 0.0032 *

Jupiter 62221-08-08 18:00 G 24447033.08 24447033.25 24447033.43 0.0489 0.0018

Mars 62221-10-28 17:46 G 24447114.10 24447114.24 24447114.37 0.1901 0.0760

Earth 62221-11-03 05:46 G 24447119.61 24447119.74 24447119.87 0.2648 0.1243

Moon 62221-11-03 07:12 G 24447119.67 24447119.80 24447119.93 0.2648 0.1136 *

Neptune 62221-12-26 22:05 G 24447173.38 24447173.42 24447173.47 0.0089 0.0084

Neptune 62222-03-24 23:31 G 24447261.42 24447261.48 24447261.56 0.0089 0.0076

Neptune 62222-06-21 00:58 G 24447349.47 24447349.54 24447349.65 0.0089 0.0069

Neptune 62222-09-17 02:53 G 24447437.52 24447437.62 24447437.72 0.0089 0.0060

Neptune 62222-12-14 04:19 G 24447525.57 24447525.68 24447525.80 0.0089 0.0052

Neptune 62223-03-12 06:00 G 24447613.63 24447613.75 24447613.87 0.0089 0.0043

Neptune 62223-06-08 07:26 G 24447701.69 24447701.81 24447701.94 0.0089 0.0035

Neptune 62223-09-04 08:53 G 24447789.75 24447789.87 24447790.01 0.0089 0.0028

Neptune 62223-12-01 10:34 G 24447877.81 24447877.94 24447878.08 0.0089 0.0019

Neptune 62224-02-27 12:00 G 24447965.87 24447966.00 24447966.14 0.0089 0.0012

Neptune 62224-05-25 13:41 G 24448053.93 24448054.07 24448054.21 0.0089 0.0003

Neptune 62224-08-21 15:07 G 24448141.99 24448142.13 24448142.27 0.0089 0.0005

Neptune 62224-11-17 16:34 G 24448230.06 24448230.19 24448230.33 0.0089 0.0013

Neptune 62225-02-13 18:00 G 24448318.12 24448318.25 24448318.39 0.0089 0.0022

Neptune 62225-05-12 19:26 G 24448406.19 24448406.31 24448406.45 0.0089 0.0030

Neptune 62225-08-08 20:53 G 24448494.26 24448494.37 24448494.51 0.0089 0.0038

Neptune 62225-11-04 22:19 G 24448582.32 24448582.43 24448582.56 0.0089 0.0046

Neptune 62226-01-31 23:46 G 24448670.39 24448670.49 24448670.61 0.0089 0.0054

Neptune 62226-04-30 01:12 G 24448758.47 24448758.55 24448758.67 0.0089 0.0061

Mars 62226-07-20 19:12 G 24448840.21 24448840.30 24448840.39 0.1622 0.1154

Neptune 62226-07-27 03:07 G 24448846.54 24448846.63 24448846.71 0.0089 0.0068

Neptune 62226-10-23 04:19 G 24448934.62 24448934.68 24448934.76 0.0089 0.0076

Neptune 62227-01-19 05:46 G 24449022.71 24449022.74 24449022.79 0.0089 0.0084

Jupiter 62227-04-15 14:53 G 24449108.99 24449109.12 24449109.25 0.0540 0.0113

Saturn 62231-03-25 00:29 G 24450548.40 24450548.52 24450548.65 0.0278 0.0190

Saturn 62231-06-21 19:41 G 24450637.15 24450637.32 24450637.50 0.0278 0.0012

Saturn 62231-09-18 15:07 G 24450726.00 24450726.13 24450726.27 0.0277 0.0171

Earth 62232-05-06 00:29 G 24450956.42 24450956.52 24450956.62 0.2682 0.1162

Moon 62232-05-06 01:12 G 24450956.45 24450956.55 24450956.65 0.2678 0.1262 *

Jupiter 62233-05-27 18:00 G 24451343.09 24451343.25 24451343.40 0.0488 0.0195

Earth 62234-11-06 09:07 G 24451870.74 24451870.88 24451871.02 0.2650 0.0703

Moon 62234-11-06 10:19 G 24451870.78 24451870.93 24451871.07 0.2645 0.0793 *

Venus 62237-04-05 21:36 G 24452752.31 24452752.40 24452752.49 0.3688 0.2851

Mars 62237-11-15 14:53 G 24452976.06 24452976.12 24452976.19 0.1627 0.1380

Jupiter 62239-02-01 17:17 G 24453419.11 24453419.22 24453419.33 0.0540 0.0316

Moon 62239-04-29 20:53 G 24453506.30 24453506.37 24453506.43 0.2692 0.2226

Earth 62239-04-29 20:53 G 24453506.31 24453506.37 24453506.43 0.2685 0.2266 *

Jupiter 62239-05-02 03:22 G 24453508.57 24453508.64 24453508.72 0.0538 0.0433

Uranus 62240-05-22 04:48 G 24453894.62 24453894.70 24453894.80 0.0141 0.0122

Uranus 62240-08-18 11:46 G 24453982.87 24453982.99 24453983.14 0.0141 0.0094

Uranus 62240-11-14 18:58 G 24454071.14 24454071.29 24454071.46 0.0141 0.0065

Uranus 62241-02-11 02:10 G 24454159.41 24454159.59 24454159.77 0.0141 0.0036

Pluto 62241-04-01 06:43 G 24454208.74 24454208.78 24454208.85 0.0066 0.0061

Venus 62241-04-04 15:36 G 24454212.06 24454212.15 24454212.24 0.3682 0.1841

Uranus 62241-05-10 09:22 G 24454247.70 24454247.89 24454248.07 0.0141 0.0008

Pluto 62241-06-28 07:26 G 24454296.73 24454296.81 24454296.92 0.0066 0.0050

Uranus 62241-08-06 16:19 G 24454336.00 24454336.18 24454336.37 0.0141 0.0022

Pluto 62241-09-24 08:24 G 24454384.74 24454384.85 24454384.97 0.0066 0.0039

Uranus 62241-11-02 23:31 G 24454424.31 24454424.48 24454424.66 0.0141 0.0051

Pluto 62241-12-21 08:53 G 24454472.75 24454472.87 24454473.01 0.0066 0.0029

Uranus 62242-01-30 06:29 G 24454512.63 24454512.77 24454512.94 0.0140 0.0081

Pluto 62242-03-19 09:36 G 24454560.76 24454560.90 24454561.04 0.0066 0.0018

Uranus 62242-04-28 13:55 G 24454600.97 24454601.08 24454601.20 0.0140 0.0109

Pluto 62242-06-15 10:19 G 24454648.79 24454648.93 24454649.07 0.0066 0.0007

Uranus 62242-07-25 21:07 G 24454689.37 24454689.38 24454689.42 0.0140 0.0139

Pluto 62242-09-11 11:02 G 24454736.81 24454736.96 24454737.10 0.0066 0.0004

Pluto 62242-12-08 11:31 G 24454824.84 24454824.98 24454825.13 0.0066 0.0015

Pluto 62243-03-06 12:14 G 24454912.88 24454913.01 24454913.14 0.0066 0.0026

Pluto 62243-06-02 12:43 G 24455000.92 24455001.03 24455001.16 0.0067 0.0037

Pluto 62243-08-29 13:12 G 24455088.97 24455089.05 24455089.16 0.0067 0.0048

Pluto 62243-11-25 13:55 G 24455177.03 24455177.08 24455177.16 0.0067 0.0059

Jupiter 62245-03-15 17:31 G 24455653.13 24455653.23 24455653.34 0.0488 0.0376

Moon 62245-05-08 19:12 G 24455707.24 24455707.30 24455707.35 0.2674 0.2327

Earth 62245-05-08 18:58 G 24455707.24 24455707.29 24455707.35 0.2681 0.2325 *

Jupiter 62245-06-13 18:00 G 24455743.14 24455743.25 24455743.36 0.0490 0.0370

Saturn 62246-07-20 03:36 G 24456144.54 24456144.65 24456144.77 0.0281 0.0153

Saturn 62246-10-16 16:34 G 24456233.05 24456233.19 24456233.33 0.0282 0.0007

Venus 62246-10-19 07:41 G 24456235.72 24456235.82 24456235.92 0.3682 0.0834

Saturn 62247-01-13 05:02 G 24456321.59 24456321.71 24456321.83 0.0282 0.0148

Mars 62247-04-08 00:29 G 24456406.40 24456406.52 24456406.64 0.1625 0.0590

Jupiter 62250-11-20 19:55 G 24457729.29 24457729.33 24457729.37 0.0540 0.0514

Jupiter 62251-02-18 06:29 G 24457818.65 24457818.77 24457818.89 0.0538 0.0247

Mars 62251-12-07 17:02 G 24458111.09 24458111.21 24458111.32 0.1898 0.1145

Earth 62252-05-01 15:50 G 24458257.05 24458257.16 24458257.27 0.2684 0.1019

Moon 62252-05-01 16:19 G 24458257.08 24458257.18 24458257.29 0.2690 0.1035 *

Venus 62252-05-03 23:31 G 24458259.45 24458259.48 24458259.51 0.3681 0.3459

Mars 62256-08-28 09:50 G 24459836.78 24459836.91 24459837.04 0.1623 0.0212

Jupiter 62257-04-01 16:34 G 24460053.03 24460053.19 24460053.35 0.0489 0.0170

Saturn 62260-08-11 02:38 G 24461280.52 24461280.61 24461280.72 0.0279 0.0219

Saturn 62260-11-07 21:50 G 24461369.24 24461369.41 24461369.58 0.0278 0.0040

Saturn 62261-02-04 17:17 G 24461458.07 24461458.22 24461458.37 0.0278 0.0142

Mars 62261-04-28 18:00 G 24461541.12 24461541.25 24461541.39 0.1901 0.0560

Jupiter 62262-12-07 09:36 G 24462128.77 24462128.90 24462129.04 0.0540 0.0064

Earth 62265-05-04 10:48 G 24463007.83 24463007.95 24463008.06 0.2683 0.0205

Moon 62265-05-04 11:31 G 24463007.87 24463007.98 24463008.09 0.2682 0.0357 *

Mars 62266-01-18 19:12 G 24463267.20 24463267.30 24463267.40 0.1622 0.1018

Earth 62267-11-04 11:46 G 24463921.85 24463921.99 24463922.13 0.2649 0.0900

Moon 62267-11-04 13:12 G 24463921.90 24463922.05 24463922.19 0.2647 0.0697 *

Jupiter 62269-01-18 16:05 G 24464363.00 24464363.17 24464363.35 0.0488 0.0017

Jupiter 62274-09-25 13:12 G 24466438.92 24466439.05 24466439.18 0.0540 0.0117

Saturn 62275-12-07 05:17 G 24466876.62 24466876.72 24466876.82 0.0280 0.0199

Saturn 62276-03-04 18:00 G 24466965.12 24466965.25 24466965.39 0.0281 0.0049

Saturn 62276-06-01 06:43 G 24467053.65 24467053.78 24467053.91 0.0281 0.0101

Saturn 62276-08-28 19:12 G 24467142.24 24467142.30 24467142.36 0.0282 0.0248

Mars 62277-05-16 15:07 G 24467403.08 24467403.13 24467403.17 0.1627 0.1511

Earth 62278-05-07 05:31 G 24467758.63 24467758.73 24467758.82 0.2682 0.1390

Moon 62278-05-07 06:00 G 24467758.65 24467758.75 24467758.85 0.2678 0.1412 *

Jupiter 62280-11-06 15:36 G 24468673.00 24468673.15 24468673.31 0.0488 0.0197

Earth 62280-11-06 15:22 G 24468673.01 24468673.14 24468673.28 0.2650 0.1070 *

Moon 62280-11-06 16:19 G 24468673.05 24468673.18 24468673.32 0.2645 0.1173 *

Uranus 62283-11-20 05:17 G 24469781.66 24469781.72 24469781.78 0.0137 0.0122

Uranus 62284-02-16 08:38 G 24469869.78 24469869.86 24469869.96 0.0137 0.0102

Uranus 62284-05-14 12:14 G 24469957.91 24469958.01 24469958.13 0.0137 0.0082

Uranus 62284-08-10 15:50 G 24470046.04 24470046.16 24470046.29 0.0137 0.0062

Uranus 62284-11-06 19:26 G 24470134.18 24470134.31 24470134.44 0.0137 0.0041

Uranus 62285-02-02 23:02 G 24470222.32 24470222.46 24470222.60 0.0137 0.0021

Earth 62285-04-30 01:41 G 24470308.50 24470308.57 24470308.65 0.2685 0.2031

Moon 62285-04-30 01:55 G 24470308.51 24470308.58 24470308.65 0.2692 0.2045 *

Uranus 62285-05-02 02:38 G 24470310.47 24470310.61 24470310.74 0.0138 0.0003

Uranus 62285-07-29 06:00 G 24470398.62 24470398.75 24470398.89 0.0138 0.0020

Uranus 62285-10-25 09:36 G 24470486.77 24470486.90 24470487.03 0.0138 0.0040

Uranus 62286-01-21 12:58 G 24470574.92 24470575.04 24470575.17 0.0138 0.0060

Uranus 62286-04-19 16:34 G 24470663.08 24470663.19 24470663.30 0.0138 0.0080

Jupiter 62286-07-14 16:19 G 24470749.07 24470749.18 24470749.29 0.0540 0.0302

Uranus 62286-07-16 19:55 G 24470751.24 24470751.33 24470751.43 0.0138 0.0100

Mars 62286-10-07 00:29 G 24470833.41 24470833.52 24470833.64 0.1625 0.0721

Jupiter 62286-10-12 02:24 G 24470838.53 24470838.60 24470838.67 0.0538 0.0449

Uranus 62286-10-12 23:17 G 24470839.41 24470839.47 24470839.54 0.0138 0.0120

Saturn 62290-03-27 19:41 G 24472101.17 24472101.32 24472101.48 0.0278 0.0110

Saturn 62290-06-24 15:07 G 24472189.96 24472190.13 24472190.29 0.0278 0.0071

Saturn 62290-09-21 10:34 G 24472278.87 24472278.94 24472279.01 0.0277 0.0254

Earth 62291-05-10 00:00 G 24472509.46 24472509.50 24472509.53 0.2680 0.2544

Moon 62291-05-10 00:00 G 24472509.47 24472509.50 24472509.53 0.2673 0.2556 *

Mars 62291-06-07 17:17 G 24472538.12 24472538.22 24472538.33 0.1898 0.1343

Venus 62292-04-25 21:07 G 24472861.35 24472861.38 24472861.40 0.3683 0.3542

Jupiter 62292-08-25 15:36 G 24472983.05 24472983.15 24472983.27 0.0488 0.0373

Jupiter 62292-11-23 16:05 G 24473073.06 24473073.17 24473073.28 0.0490 0.0373

Venus 62293-11-10 22:34 G 24473425.30 24473425.44 24473425.59 0.3689 0.0487

Mars 62296-02-27 10:05 G 24474263.79 24474263.92 24474264.05 0.1623 0.0088

Venus 62297-11-09 13:12 G 24474884.95 24474885.05 24474885.15 0.3682 0.0832

Jupiter 62298-05-02 18:43 G 24475059.24 24475059.28 24475059.33 0.0540 0.0505

Earth 62298-05-02 20:53 G 24475059.26 24475059.37 24475059.48 0.2684 0.0790 *

Moon 62298-05-02 21:22 G 24475059.28 24475059.39 24475059.50 0.2688 0.0669 *

Jupiter 62298-07-31 05:17 G 24475148.61 24475148.72 24475148.84 0.0538 0.0256

Mars 62300-10-28 18:14 G 24475968.12 24475968.26 24475968.40 0.1901 0.0385

Earth 62300-11-02 14:53 G 24475973.07 24475973.12 24475973.17 0.2647 0.2436

Moon 62300-11-02 16:05 G 24475973.09 24475973.17 24475973.25 0.2650 0.2219 *

Venus 62303-05-27 05:17 G 24476908.63 24476908.72 24476908.81 0.3681 0.1840

Jupiter 62304-09-12 15:22 G 24477382.98 24477383.14 24477383.31 0.0489 0.0185

Saturn 62305-04-26 07:12 G 24477608.73 24477608.80 24477608.87 0.0281 0.0241

Mars 62305-07-20 19:26 G 24477694.20 24477694.31 24477694.42 0.1622 0.0887

Saturn 62305-07-23 20:10 G 24477697.21 24477697.34 24477697.47 0.0281 0.0089

Saturn 62305-10-20 08:53 G 24477785.73 24477785.87 24477786.00 0.0282 0.0061

Neptune 62305-11-25 08:24 G 24477821.81 24477821.85 24477821.93 0.0088 0.0083

Saturn 62306-01-16 21:22 G 24477874.30 24477874.39 24477874.48 0.0282 0.0209

Neptune 62306-02-21 11:31 G 24477909.90 24477909.98 24477910.10 0.0088 0.0073

Neptune 62306-05-20 14:24 G 24477997.99 24477998.10 24477998.25 0.0088 0.0063

Neptune 62306-08-16 17:31 G 24478086.10 24478086.23 24478086.39 0.0088 0.0053

Neptune 62306-11-12 20:38 G 24478174.21 24478174.36 24478174.53 0.0088 0.0043

Neptune 62307-02-09 00:00 G 24478262.33 24478262.50 24478262.67 0.0088 0.0033

Neptune 62307-05-08 02:53 G 24478350.45 24478350.62 24478350.80 0.0088 0.0022

Neptune 62307-08-04 06:00 G 24478438.57 24478438.75 24478438.93 0.0088 0.0012

Neptune 62307-10-31 09:07 G 24478526.69 24478526.88 24478527.06 0.0088 0.0002

Neptune 62308-01-27 12:00 G 24478614.82 24478615.00 24478615.19 0.0088 0.0009

Neptune 62308-04-24 15:07 G 24478702.95 24478703.13 24478703.31 0.0088 0.0019

Neptune 62308-07-21 18:00 G 24478791.09 24478791.25 24478791.44 0.0088 0.0029

Neptune 62308-10-17 21:07 G 24478879.23 24478879.38 24478879.56 0.0088 0.0040

Neptune 62309-01-14 00:29 G 24478967.37 24478967.52 24478967.68 0.0088 0.0049

Neptune 62309-04-12 03:22 G 24479055.52 24479055.64 24479055.79 0.0088 0.0060

Neptune 62309-07-09 06:29 G 24479143.67 24479143.77 24479143.89 0.0088 0.0071

Neptune 62309-10-05 09:22 G 24479231.84 24479231.89 24479231.99 0.0088 0.0082

Jupiter 62310-05-20 08:24 G 24479458.71 24479458.85 24479458.98 0.0539 0.0069

Earth 62311-05-06 15:36 G 24479810.04 24479810.15 24479810.27 0.2683 0.0427

Moon 62311-05-06 16:34 G 24479810.07 24479810.19 24479810.30 0.2682 0.0447 *

Earth 62313-11-05 18:00 G 24480724.10 24480724.25 24480724.39 0.2649 0.0545

Moon 62313-11-05 19:12 G 24480724.16 24480724.30 24480724.45 0.2646 0.0504 *

Jupiter 62316-07-01 14:24 G 24481692.92 24481693.10 24481693.27 0.0488 0.0010

Saturn 62319-08-15 21:36 G 24482833.26 24482833.40 24482833.55 0.0279 0.0141

Saturn 62319-11-12 16:48 G 24482922.03 24482922.20 24482922.37 0.0278 0.0039

Saturn 62320-02-09 12:14 G 24483010.91 24483011.01 24483011.12 0.0278 0.0222

Jupiter 62322-03-08 11:17 G 24483768.84 24483768.97 24483769.10 0.0540 0.0123

Uranus 62324-03-16 06:00 G 24484507.73 24484507.75 24484507.78 0.0141 0.0139

Earth 62324-05-08 10:19 G 24484560.84 24484560.93 24484561.02 0.2681 0.1604

Moon 62324-05-08 10:48 G 24484560.86 24484560.95 24484561.04 0.2676 0.1706 *

Uranus 62324-06-12 12:43 G 24484595.94 24484596.03 24484596.16 0.0141 0.0111

Uranus 62324-09-08 20:10 G 24484684.19 24484684.34 24484684.48 0.0141 0.0082

Uranus 62324-12-06 02:53 G 24484772.46 24484772.62 24484772.80 0.0141 0.0054

Uranus 62325-03-04 10:05 G 24484860.75 24484860.92 24484861.11 0.0141 0.0025

Uranus 62325-05-31 17:17 G 24484949.04 24484949.22 24484949.41 0.0141 0.0005

Uranus 62325-08-28 00:29 G 24485037.34 24485037.52 24485037.70 0.0141 0.0033

Uranus 62325-11-24 07:26 G 24485125.66 24485125.81 24485125.99 0.0140 0.0063

Uranus 62326-02-20 14:53 G 24485213.98 24485214.12 24485214.26 0.0140 0.0092

Mars 62326-04-08 00:43 G 24485260.42 24485260.53 24485260.64 0.1625 0.0851

Uranus 62326-05-19 21:50 G 24485302.33 24485302.41 24485302.52 0.0140 0.0121

Earth 62326-11-08 21:36 G 24485475.27 24485475.40 24485475.52 0.2650 0.1429

Moon 62326-11-08 22:19 G 24485475.31 24485475.43 24485475.55 0.2645 0.1535 *

Jupiter 62328-04-19 14:10 G 24486002.93 24486003.09 24486003.25 0.0488 0.0190

Pluto 62329-01-04 19:41 G 24486263.27 24486263.32 24486263.39 0.0078 0.0073

Pluto 62329-04-02 21:36 G 24486351.29 24486351.40 24486351.55 0.0078 0.0052

Pluto 62329-06-29 23:46 G 24486439.34 24486439.49 24486439.66 0.0078 0.0031

Pluto 62329-09-26 01:55 G 24486527.41 24486527.58 24486527.76 0.0078 0.0010

Pluto 62329-12-23 04:05 G 24486615.50 24486615.67 24486615.84 0.0077 0.0012

Pluto 62330-03-21 06:00 G 24486703.59 24486703.75 24486703.91 0.0077 0.0033

Pluto 62330-06-17 07:55 G 24486791.71 24486791.83 24486791.96 0.0077 0.0053

Pluto 62330-09-13 09:50 G 24486879.88 24486879.91 24486879.96 0.0077 0.0074

Mars 62330-12-07 18:00 G 24486965.16 24486965.25 24486965.33 0.1898 0.1551

Earth 62331-05-02 06:43 G 24487110.70 24487110.78 24487110.87 0.2685 0.1794

Moon 62331-05-02 06:58 G 24487110.71 24487110.79 24487110.88 0.2692 0.1763 *

Jupiter 62333-12-25 14:38 G 24488079.00 24488079.11 24488079.22 0.0541 0.0305

Jupiter 62334-03-25 00:58 G 24488168.47 24488168.54 24488168.61 0.0539 0.0449

Saturn 62334-12-10 21:36 G 24488429.28 24488429.40 24488429.53 0.0280 0.0136

Saturn 62335-03-09 10:19 G 24488517.80 24488517.93 24488518.07 0.0281 0.0017

Saturn 62335-06-05 22:48 G 24488606.34 24488606.45 24488606.57 0.0281 0.0162

Mars 62335-08-29 10:05 G 24488690.79 24488690.92 24488691.05 0.1623 0.0070

Jupiter 62340-02-06 13:55 G 24490312.97 24490313.08 24490313.19 0.0488 0.0370

Mars 62340-04-28 18:29 G 24490395.13 24490395.27 24490395.41 0.1901 0.0201

Jupiter 62340-05-06 13:55 G 24490402.98 24490403.08 24490403.20 0.0489 0.0374

Earth 62344-05-04 01:55 G 24491861.46 24491861.58 24491861.69 0.2684 0.0569

Moon 62344-05-04 02:24 G 24491861.49 24491861.60 24491861.72 0.2686 0.0526 *

Mars 62345-01-18 19:26 G 24492121.20 24492121.31 24492121.43 0.1622 0.0754

Jupiter 62345-10-13 17:46 G 24492389.19 24492389.24 24492389.30 0.0541 0.0491

Jupiter 62346-01-11 04:19 G 24492478.57 24492478.68 24492478.80 0.0539 0.0272

Earth 62346-11-03 20:53 G 24492775.28 24492775.37 24492775.46 0.2648 0.2097

Moon 62346-11-03 22:19 G 24492775.34 24492775.43 24492775.52 0.2649 0.2059 *

Venus 62348-12-01 18:43 G 24493534.20 24493534.28 24493534.35 0.3682 0.2514

Saturn 62349-01-01 19:12 G 24493565.20 24493565.30 24493565.41 0.0279 0.0213

Saturn 62349-03-31 14:24 G 24493653.93 24493654.10 24493654.27 0.0278 0.0034

Saturn 62349-06-28 09:36 G 24493742.76 24493742.90 24493743.05 0.0278 0.0148

Mars 62349-09-18 19:41 G 24493825.30 24493825.32 24493825.34 0.1903 0.1884

Venus 62350-06-18 23:31 G 24494098.36 24494098.48 24494098.61 0.3689 0.1927

Jupiter 62352-02-23 13:41 G 24494712.91 24494713.07 24494713.23 0.0489 0.0191

Mars 62354-06-11 04:34 G 24495551.67 24495551.69 24495551.72 0.1620 0.1572

Venus 62354-06-17 10:48 G 24495557.84 24495557.95 24495558.05 0.3682 0.0209

Earth 62357-05-06 20:38 G 24496612.25 24496612.36 24496612.47 0.2683 0.0646

Moon 62357-05-06 21:22 G 24496612.28 24496612.39 24496612.50 0.2682 0.0802 *

Jupiter 62357-10-30 07:12 G 24496788.67 24496788.80 24496788.93 0.0539 0.0080

Earth 62359-11-07 00:00 G 24497526.36 24497526.50 24497526.65 0.2649 0.0200

Moon 62359-11-07 01:26 G 24497526.41 24497526.56 24497526.71 0.2646 0.0047 *

Venus 62360-01-01 02:38 G 24497581.55 24497581.61 24497581.68 0.3681 0.2825

Jupiter 62363-12-12 13:12 G 24499022.88 24499023.05 24499023.23 0.0489 0.0012

Saturn 62364-04-28 23:17 G 24499161.37 24499161.47 24499161.58 0.0281 0.0181

Saturn 62364-07-26 12:00 G 24499249.87 24499250.00 24499250.14 0.0281 0.0032

Saturn 62364-10-23 00:43 G 24499338.41 24499338.53 24499338.66 0.0282 0.0119

Saturn 62365-01-19 13:12 G 24499427.01 24499427.05 24499427.09 0.0282 0.0266

Mars 62365-10-07 00:43 G 24499687.43 24499687.53 24499687.63 0.1625 0.0977

Uranus 62367-09-14 08:53 G 24500394.86 24500394.87 24500394.89 0.0137 0.0136

Uranus 62367-12-11 12:43 G 24500482.96 24500483.03 24500483.10 0.0137 0.0115

Uranus 62368-03-08 16:05 G 24500571.08 24500571.17 24500571.28 0.0137 0.0095

Uranus 62368-06-04 19:41 G 24500659.21 24500659.32 24500659.44 0.0137 0.0075

Uranus 62368-08-31 23:17 G 24500747.35 24500747.47 24500747.60 0.0137 0.0055

Uranus 62368-11-28 02:53 G 24500835.49 24500835.62 24500835.76 0.0137 0.0034

Uranus 62369-02-24 06:29 G 24500923.63 24500923.77 24500923.91 0.0137 0.0014

Uranus 62369-05-23 10:05 G 24501011.78 24501011.92 24501012.05 0.0137 0.0007

Jupiter 62369-08-18 10:05 G 24501098.79 24501098.92 24501099.05 0.0540 0.0113

Uranus 62369-08-19 13:26 G 24501099.93 24501100.06 24501100.20 0.0138 0.0027

Uranus 62369-11-15 17:02 G 24501188.08 24501188.21 24501188.34 0.0138 0.0047

Uranus 62370-02-11 20:24 G 24501276.24 24501276.35 24501276.47 0.0138 0.0067

Earth 62370-05-09 15:22 G 24501363.05 24501363.14 24501363.22 0.2681 0.1829

Moon 62370-05-09 15:36 G 24501363.07 24501363.15 24501363.23 0.2675 0.1790 *

Uranus 62370-05-10 23:46 G 24501364.39 24501364.49 24501364.60 0.0138 0.0087

Mars 62370-06-07 17:46 G 24501392.18 24501392.24 24501392.31 0.1898 0.1707

Uranus 62370-08-07 03:22 G 24501452.56 24501452.64 24501452.73 0.0138 0.0107

Uranus 62370-11-03 06:43 G 24501540.74 24501540.78 24501540.84 0.0138 0.0127

Earth 62372-11-09 03:50 G 24502277.55 24502277.66 24502277.77 0.2650 0.1799

Moon 62372-11-09 04:19 G 24502277.57 24502277.68 24502277.79 0.2644 0.1778 *

Mars 62375-02-27 10:19 G 24503117.80 24503117.93 24503118.06 0.1623 0.0186

Jupiter 62375-09-30 12:29 G 24503332.86 24503333.02 24503333.18 0.0488 0.0182

Earth 62377-05-02 11:46 G 24503912.90 24503912.99 24503913.09 0.2685 0.1559

Moon 62377-05-02 12:00 G 24503912.91 24503913.00 24503913.10 0.2691 0.1530 *

Saturn 62378-05-21 20:38 G 24504297.29 24504297.36 24504297.44 0.0279 0.0249

Saturn 62378-08-18 15:50 G 24504385.99 24504386.16 24504386.33 0.0279 0.0070

Saturn 62378-11-15 11:02 G 24504474.81 24504474.96 24504475.12 0.0278 0.0111

Mars 62379-10-28 18:58 G 24504822.15 24504822.29 24504822.43 0.1901 0.0007

Jupiter 62381-06-06 12:43 G 24505408.92 24505409.03 24505409.14 0.0541 0.0309

Jupiter 62381-09-03 23:02 G 24505498.39 24505498.46 24505498.54 0.0539 0.0446

Mars 62384-07-19 19:41 G 24506548.20 24506548.32 24506548.44 0.1622 0.0619

Neptune 62386-09-23 20:53 G 24507344.33 24507344.37 24507344.43 0.0089 0.0083

Neptune 62386-12-20 22:34 G 24507432.37 24507432.44 24507432.52 0.0089 0.0074

Neptune 62387-03-19 00:00 G 24507520.42 24507520.50 24507520.61 0.0089 0.0066

Neptune 62387-06-15 01:55 G 24507608.47 24507608.58 24507608.68 0.0089 0.0058

Jupiter 62387-07-19 12:29 G 24507642.91 24507643.02 24507643.14 0.0487 0.0358

Neptune 62387-09-11 03:22 G 24507696.53 24507696.64 24507696.76 0.0089 0.0050

Jupiter 62387-10-17 12:43 G 24507732.92 24507733.03 24507733.13 0.0489 0.0384

Neptune 62387-12-08 04:48 G 24507784.58 24507784.70 24507784.83 0.0089 0.0042

Neptune 62388-03-05 06:29 G 24507872.64 24507872.77 24507872.90 0.0089 0.0033

Neptune 62388-06-01 07:55 G 24507960.70 24507960.83 24507960.97 0.0089 0.0025

Neptune 62388-08-28 09:36 G 24508048.76 24508048.90 24508049.04 0.0089 0.0017

Neptune 62388-11-24 11:02 G 24508136.82 24508136.96 24508137.10 0.0089 0.0009

Neptune 62389-02-20 12:43 G 24508224.89 24508225.03 24508225.16 0.0089 0.0003

Mars 62389-03-19 19:55 G 24508252.27 24508252.33 24508252.40 0.1903 0.1694

Neptune 62389-05-19 14:10 G 24508312.95 24508313.09 24508313.23 0.0089 0.0007

Neptune 62389-08-15 15:36 G 24508401.02 24508401.15 24508401.29 0.0089 0.0015

Neptune 62389-11-11 17:02 G 24508489.08 24508489.21 24508489.35 0.0089 0.0023

Neptune 62390-02-07 18:29 G 24508577.15 24508577.27 24508577.41 0.0089 0.0031

Earth 62390-05-05 06:43 G 24508663.67 24508663.78 24508663.90 0.2684 0.0337

Moon 62390-05-05 07:41 G 24508663.70 24508663.82 24508663.93 0.2686 0.0240 *

Neptune 62390-05-06 19:55 G 24508665.22 24508665.33 24508665.46 0.0089 0.0039

Neptune 62390-08-02 21:22 G 24508753.29 24508753.39 24508753.52 0.0089 0.0047

Neptune 62390-10-29 22:48 G 24508841.36 24508841.45 24508841.57 0.0089 0.0055

Neptune 62391-01-26 00:29 G 24508929.43 24508929.52 24508929.62 0.0089 0.0063

Neptune 62391-04-24 01:55 G 24509017.50 24509017.58 24509017.67 0.0089 0.0070

Neptune 62391-07-21 03:22 G 24509105.58 24509105.64 24509105.71 0.0089 0.0078

Neptune 62391-10-17 04:48 G 24509193.67 24509193.70 24509193.74 0.0089 0.0086

Earth 62392-11-04 03:07 G 24509577.52 24509577.63 24509577.74 0.2648 0.1748

Moon 62392-11-04 04:19 G 24509577.57 24509577.68 24509577.80 0.2647 0.1541 *

Jupiter 62393-03-25 16:05 G 24509719.12 24509719.17 24509719.22 0.0541 0.0493

Jupiter 62393-06-23 02:53 G 24509808.50 24509808.62 24509808.73 0.0539 0.0273

Saturn 62393-09-16 00:58 G 24509893.47 24509893.54 24509893.63 0.0280 0.0226

Mars 62393-12-10 04:48 G 24509978.65 24509978.70 24509978.76 0.1620 0.1432

Saturn 62393-12-13 13:55 G 24509981.95 24509982.08 24509982.22 0.0280 0.0075

Saturn 62394-03-12 02:38 G 24510070.47 24510070.61 24510070.74 0.0281 0.0073

Saturn 62394-06-08 15:07 G 24510159.04 24510159.13 24510159.21 0.0281 0.0220

Jupiter 62399-08-05 12:00 G 24512042.84 24512043.00 24512043.16 0.0489 0.0196

Venus 62401-07-09 19:26 G 24512747.21 24512747.31 24512747.41 0.3688 0.2662

Earth 62403-05-08 01:26 G 24513414.46 24513414.56 24513414.67 0.2682 0.0879

Moon 62403-05-08 02:10 G 24513414.49 24513414.59 24513414.70 0.2680 0.0900 *

Mars 62405-04-07 00:58 G 24514114.45 24514114.54 24514114.63 0.1625 0.1107

Jupiter 62405-04-11 06:14 G 24514118.63 24514118.76 24514118.89 0.0540 0.0096

Venus 62405-07-08 16:19 G 24514207.08 24514207.18 24514207.27 0.3682 0.1505

Earth 62405-11-07 06:14 G 24514328.61 24514328.76 24514328.91 0.2649 0.0167

Moon 62405-11-07 07:26 G 24514328.67 24514328.81 24514328.96 0.2646 0.0207 *

Saturn 62408-01-05 12:58 G 24515117.90 24515118.04 24515118.19 0.0279 0.0145

Saturn 62408-04-03 08:24 G 24515206.68 24515206.85 24515207.02 0.0278 0.0036

Uranus 62408-04-05 13:41 G 24515209.01 24515209.07 24515209.15 0.0141 0.0129

Saturn 62408-07-01 03:50 G 24515295.55 24515295.66 24515295.77 0.0278 0.0218

Uranus 62408-07-02 20:38 G 24515297.25 24515297.36 24515297.50 0.0141 0.0101

Uranus 62408-09-29 03:50 G 24515385.51 24515385.66 24515385.82 0.0141 0.0072

Uranus 62408-12-26 11:02 G 24515473.78 24515473.96 24515474.13 0.0141 0.0043

Uranus 62409-03-24 18:00 G 24515562.07 24515562.25 24515562.44 0.0141 0.0015

Uranus 62409-06-21 01:12 G 24515650.37 24515650.55 24515650.73 0.0141 0.0015

Uranus 62409-09-17 08:24 G 24515738.67 24515738.85 24515739.02 0.0141 0.0044

Uranus 62409-12-14 15:36 G 24515826.99 24515827.15 24515827.31 0.0141 0.0073

Uranus 62410-03-12 22:34 G 24515915.33 24515915.44 24515915.58 0.0140 0.0103

Moon 62410-04-30 21:36 G 24515964.36 24515964.40 24515964.43 0.2693 0.2541

Earth 62410-04-30 21:36 G 24515964.37 24515964.40 24515964.43 0.2686 0.2578 *

Uranus 62410-06-09 06:00 G 24516003.69 24516003.75 24516003.82 0.0140 0.0132

Venus 62411-01-22 08:10 G 24516230.74 24516230.84 24516230.94 0.3682 0.1184

Jupiter 62411-05-24 11:46 G 24516352.82 24516352.99 24516353.16 0.0489 0.0016

Mars 62414-08-28 10:19 G 24517544.80 24517544.93 24517545.06 0.1623 0.0312

Earth 62416-05-09 20:10 G 24518165.27 24518165.34 24518165.41 0.2681 0.2042

Moon 62416-05-09 20:24 G 24518165.29 24518165.35 24518165.42 0.2674 0.2138 *

Jupiter 62417-01-28 09:07 G 24518428.75 24518428.88 24518429.01 0.0540 0.0099

Earth 62418-11-10 09:50 G 24519079.83 24519079.91 24519080.00 0.2651 0.2163

Moon 62418-11-10 10:19 G 24519079.85 24519079.93 24519080.00 0.2644 0.2269 *

Mars 62419-04-28 18:58 G 24519249.15 24519249.29 24519249.44 0.1901 0.0182

Saturn 62423-02-03 02:10 G 24520625.57 24520625.59 24520625.61 0.0280 0.0276

Jupiter 62423-03-12 11:31 G 24520662.82 24520662.98 24520663.14 0.0488 0.0166

Saturn 62423-05-02 15:07 G 24520714.01 24520714.13 24520714.26 0.0281 0.0125

Earth 62423-05-03 16:48 G 24520715.10 24520715.20 24520715.30 0.2685 0.1325

Moon 62423-05-03 17:17 G 24520715.12 24520715.22 24520715.32 0.2690 0.1313 *

Saturn 62423-07-30 03:50 G 24520802.52 24520802.66 24520802.80 0.0281 0.0025

Saturn 62423-10-26 16:19 G 24520891.08 24520891.18 24520891.29 0.0282 0.0173

Mars 62424-01-18 19:55 G 24520975.20 24520975.33 24520975.45 0.1622 0.0489

Mars 62428-09-17 20:10 G 24522679.25 24522679.34 24522679.42 0.1903 0.1531

Jupiter 62428-11-16 12:00 G 24522738.89 24522739.00 24522739.11 0.0540 0.0292

Jupiter 62429-02-13 22:05 G 24522828.36 24522828.42 24522828.49 0.0538 0.0460

Mars 62433-06-10 05:02 G 24524405.63 24524405.71 24524405.79 0.1620 0.1297

Jupiter 62434-12-29 11:02 G 24524972.85 24524972.96 24524973.08 0.0487 0.0348

Jupiter 62435-03-29 11:17 G 24525062.87 24525062.97 24525063.07 0.0489 0.0395

Earth 62436-05-05 11:46 G 24525465.88 24525465.99 24525466.10 0.2683 0.0102

Moon 62436-05-05 12:29 G 24525465.91 24525466.02 24525466.14 0.2685 0.0072 *

Saturn 62437-05-24 14:10 G 24525849.97 24525850.09 24525850.22 0.0279 0.0184

Saturn 62437-08-21 09:22 G 24525938.72 24525938.89 24525939.06 0.0279 0.0005

Saturn 62437-11-18 04:48 G 24526027.57 24526027.70 24526027.83 0.0278 0.0178

Earth 62438-11-05 09:07 G 24526379.76 24526379.88 24526380.00 0.2648 0.1403

Moon 62438-11-05 10:34 G 24526379.81 24526379.94 24526380.07 0.2647 0.1309 *

Jupiter 62440-09-04 14:24 G 24527049.05 24527049.10 24527049.15 0.0541 0.0494

Jupiter 62440-12-03 01:12 G 24527138.44 24527138.55 24527138.66 0.0539 0.0272

Mars 62444-10-06 00:58 G 24528541.46 24528541.54 24528541.62 0.1625 0.1235

Jupiter 62447-01-15 10:48 G 24529372.79 24529372.95 24529373.11 0.0488 0.0210

Earth 62449-05-08 06:29 G 24530216.67 24530216.77 24530216.88 0.2682 0.1096

Moon 62449-05-08 07:12 G 24530216.69 24530216.80 24530216.90 0.2678 0.1198 *

Uranus 62451-10-04 16:48 G 24531096.15 24531096.20 24531096.25 0.0137 0.0127

Earth 62451-11-08 12:29 G 24531130.87 24531131.02 24531131.16 0.2649 0.0529

Moon 62451-11-08 13:26 G 24531130.92 24531131.06 24531131.21 0.2645 0.0724 *

Uranus 62451-12-31 20:10 G 24531184.27 24531184.34 24531184.44 0.0137 0.0107

Uranus 62452-03-28 23:46 G 24531272.39 24531272.49 24531272.61 0.0137 0.0087

Uranus 62452-06-25 03:36 G 24531360.53 24531360.65 24531360.77 0.0137 0.0066

Saturn 62452-09-18 17:02 G 24531446.10 24531446.21 24531446.33 0.0280 0.0167

Jupiter 62452-09-21 04:48 G 24531448.57 24531448.70 24531448.83 0.0540 0.0096

Uranus 62452-09-21 07:12 G 24531448.67 24531448.80 24531448.93 0.0137 0.0046 *

Saturn 62452-12-16 06:00 G 24531534.61 24531534.75 24531534.89 0.0280 0.0019

Uranus 62452-12-18 10:34 G 24531536.81 24531536.94 24531537.08 0.0137 0.0026

Saturn 62453-03-14 18:29 G 24531623.15 24531623.27 24531623.39 0.0281 0.0130

Uranus 62453-03-16 14:10 G 24531624.96 24531625.09 24531625.23 0.0137 0.0006

Saturn 62453-06-11 06:58 G 24531711.76 24531711.79 24531711.81 0.0281 0.0275

Uranus 62453-06-12 17:46 G 24531713.10 24531713.24 24531713.38 0.0137 0.0015

Uranus 62453-09-08 21:07 G 24531801.25 24531801.38 24531801.52 0.0137 0.0035

Uranus 62453-12-06 00:43 G 24531889.41 24531889.53 24531889.66 0.0138 0.0055

Mars 62454-02-26 10:34 G 24531971.82 24531971.94 24531972.06 0.1623 0.0448

Uranus 62454-03-04 04:05 G 24531977.56 24531977.67 24531977.79 0.0138 0.0075

Uranus 62454-05-31 07:41 G 24532065.72 24532065.82 24532065.92 0.0138 0.0095

Uranus 62454-08-27 11:02 G 24532153.89 24532153.96 24532154.04 0.0138 0.0115

Uranus 62454-11-23 14:24 G 24532242.08 24532242.10 24532242.13 0.0138 0.0135

Moon 62456-05-01 02:38 G 24532766.56 24532766.61 24532766.66 0.2693 0.2426

Earth 62456-05-01 02:38 G 24532766.56 24532766.61 24532766.67 0.2686 0.2340 *

Venus 62456-07-29 21:36 G 24532856.35 24532856.40 24532856.45 0.3683 0.3200

Venus 62458-02-13 20:24 G 24533420.20 24533420.35 24533420.49 0.3689 0.0329

Mars 62458-10-27 19:26 G 24533676.17 24533676.31 24533676.45 0.1901 0.0360

Jupiter 62458-11-03 10:19 G 24533682.75 24533682.93 24533683.10 0.0488 0.0026

Venus 62462-02-12 13:41 G 24534879.97 24534880.07 24534880.18 0.3682 0.0498

Earth 62462-05-11 01:12 G 24534967.49 24534967.55 24534967.61 0.2681 0.2265

Moon 62462-05-11 01:26 G 24534967.50 24534967.56 24534967.62 0.2674 0.2222 *

Mars 62463-07-19 19:55 G 24535402.20 24535402.33 24535402.46 0.1622 0.0354

Jupiter 62464-07-10 08:10 G 24535758.71 24535758.84 24535758.97 0.0540 0.0084

Moon 62464-11-10 16:34 G 24535882.13 24535882.19 24535882.24 0.2644 0.2450

Earth 62464-11-10 16:19 G 24535882.14 24535882.18 24535882.22 0.2651 0.2538 *

Saturn 62466-10-11 11:31 G 24536581.92 24536581.98 24536582.04 0.0279 0.0259

Saturn 62467-01-08 06:29 G 24536670.61 24536670.77 24536670.94 0.0279 0.0080

Saturn 62467-04-07 01:41 G 24536759.42 24536759.57 24536759.74 0.0278 0.0102

Venus 62467-08-29 05:46 G 24536903.66 24536903.74 24536903.82 0.3682 0.2172

Mars 62468-03-18 20:38 G 24537106.26 24537106.36 24537106.46 0.1903 0.1328

Earth 62469-05-03 21:50 G 24537517.30 24537517.41 24537517.51 0.2685 0.1092

Moon 62469-05-03 22:19 G 24537517.33 24537517.43 24537517.54 0.2689 0.0978 *

Neptune 62470-08-22 06:14 G 24537992.70 24537992.76 24537992.84 0.0088 0.0080

Jupiter 62470-08-22 10:05 G 24537992.76 24537992.92 24537993.09 0.0488 0.0154 *

Neptune 62470-11-18 09:22 G 24538080.79 24538080.89 24538081.00 0.0088 0.0070

Neptune 62471-02-14 12:14 G 24538168.89 24538169.01 24538169.15 0.0088 0.0060

Neptune 62471-05-13 15:22 G 24538257.00 24538257.14 24538257.29 0.0088 0.0050

Neptune 62471-08-09 18:14 G 24538345.11 24538345.26 24538345.43 0.0088 0.0040

Neptune 62471-11-05 21:22 G 24538433.22 24538433.39 24538433.56 0.0088 0.0030

Neptune 62472-02-02 00:29 G 24538521.34 24538521.52 24538521.70 0.0088 0.0020

Neptune 62472-04-30 03:22 G 24538609.47 24538609.64 24538609.83 0.0088 0.0010

Neptune 62472-07-27 06:29 G 24538697.59 24538697.77 24538697.96 0.0088 0.0002

Neptune 62472-10-23 09:36 G 24538785.72 24538785.90 24538786.08 0.0088 0.0011

Mars 62472-12-09 05:02 G 24538832.62 24538832.71 24538832.80 0.1620 0.1167

Neptune 62473-01-19 12:29 G 24538873.85 24538874.02 24538874.21 0.0088 0.0021

Neptune 62473-04-17 15:36 G 24538961.99 24538962.15 24538962.33 0.0088 0.0031

Neptune 62473-07-14 18:43 G 24539050.13 24539050.28 24539050.45 0.0088 0.0042

Neptune 62473-10-10 21:36 G 24539138.27 24539138.40 24539138.57 0.0088 0.0052

Neptune 62474-01-07 00:58 G 24539226.42 24539226.54 24539226.68 0.0088 0.0062

Neptune 62474-04-05 04:19 G 24539314.58 24539314.68 24539314.78 0.0088 0.0073

Neptune 62474-07-02 06:58 G 24539402.75 24539402.79 24539402.87 0.0088 0.0084

Jupiter 62476-04-28 11:02 G 24540068.85 24540068.96 24540069.08 0.0540 0.0276

Jupiter 62476-07-26 21:22 G 24540158.33 24540158.39 24540158.45 0.0538 0.0475

Saturn 62482-02-05 18:00 G 24542178.17 24542178.25 24542178.34 0.0280 0.0220

Saturn 62482-05-05 06:58 G 24542266.65 24542266.79 24542266.92 0.0281 0.0070

Earth 62482-05-06 16:48 G 24542268.08 24542268.20 24542268.31 0.2683 0.0157

Moon 62482-05-06 17:31 G 24542268.11 24542268.23 24542268.34 0.2685 0.0209 *

Jupiter 62482-06-10 10:05 G 24542302.80 24542302.92 24542303.05 0.0488 0.0332

Saturn 62482-08-01 19:41 G 24542355.18 24542355.32 24542355.45 0.0281 0.0080

Jupiter 62482-09-08 10:19 G 24542392.84 24542392.93 24542393.02 0.0489 0.0413

Saturn 62482-10-29 07:55 G 24542443.75 24542443.83 24542443.92 0.0282 0.0226

Mars 62484-04-06 01:12 G 24542968.48 24542968.55 24542968.62 0.1625 0.1361

Earth 62484-11-05 15:07 G 24543182.00 24543182.13 24543182.27 0.2648 0.1055

Moon 62484-11-05 16:48 G 24543182.06 24543182.20 24543182.33 0.2647 0.0870 *

Jupiter 62488-02-15 13:41 G 24544379.01 24544379.07 24544379.14 0.0541 0.0473

Jupiter 62488-05-15 00:29 G 24544468.41 24544468.52 24544468.63 0.0539 0.0290

Pluto 62489-04-28 13:55 G 24544817.07 24544817.08 24544817.14 0.0066 0.0064

Pluto 62489-07-25 14:53 G 24544905.05 24544905.12 24544905.22 0.0066 0.0053

Pluto 62489-10-21 15:36 G 24544993.05 24544993.15 24544993.27 0.0066 0.0042

Pluto 62490-01-17 16:19 G 24545081.06 24545081.18 24545081.31 0.0066 0.0031

Pluto 62490-04-15 16:48 G 24545169.07 24545169.20 24545169.35 0.0066 0.0021

Pluto 62490-07-12 17:31 G 24545257.09 24545257.23 24545257.38 0.0066 0.0010

Pluto 62490-10-08 18:14 G 24545345.12 24545345.26 24545345.41 0.0066 0.0002

Pluto 62491-01-04 18:58 G 24545433.15 24545433.29 24545433.43 0.0066 0.0012

Pluto 62491-04-02 19:41 G 24545521.18 24545521.32 24545521.45 0.0066 0.0023

Pluto 62491-06-29 20:10 G 24545609.22 24545609.34 24545609.47 0.0066 0.0034

Pluto 62491-09-25 20:38 G 24545697.27 24545697.36 24545697.48 0.0067 0.0045

Pluto 62491-12-22 21:22 G 24545785.32 24545785.39 24545785.48 0.0067 0.0056

Pluto 62492-03-19 22:05 G 24545873.42 24545873.42 24545873.43 0.0067 0.0067

Uranus 62492-04-25 21:50 G 24545910.32 24545910.41 24545910.51 0.0141 0.0118

Uranus 62492-07-23 04:34 G 24545998.57 24545998.69 24545998.84 0.0141 0.0091

Uranus 62492-10-19 11:46 G 24546086.83 24546086.99 24546087.16 0.0141 0.0061

Uranus 62493-01-15 18:43 G 24546175.11 24546175.28 24546175.47 0.0141 0.0033

Uranus 62493-04-14 02:10 G 24546263.40 24546263.59 24546263.77 0.0141 0.0005

Uranus 62493-07-11 09:07 G 24546351.70 24546351.88 24546352.06 0.0141 0.0026

Mars 62493-08-27 10:34 G 24546398.82 24546398.94 24546399.07 0.1623 0.0578

Uranus 62493-10-07 16:19 G 24546440.01 24546440.18 24546440.35 0.0141 0.0055

Uranus 62494-01-03 23:31 G 24546528.34 24546528.48 24546528.63 0.0141 0.0084

Uranus 62494-04-02 06:29 G 24546616.68 24546616.77 24546616.89 0.0140 0.0114

Jupiter 62494-06-27 09:36 G 24546702.74 24546702.90 24546703.05 0.0489 0.0224

Earth 62495-05-09 11:31 G 24547018.88 24547018.98 24547019.08 0.2682 0.1318

Moon 62495-05-09 12:00 G 24547018.90 24547019.00 24547019.10 0.2677 0.1361 *

Saturn 62496-05-27 07:12 G 24547402.65 24547402.80 24547402.95 0.0279 0.0124

Saturn 62496-08-24 02:24 G 24547491.43 24547491.60 24547491.77 0.0279 0.0057

Saturn 62496-11-20 21:50 G 24547580.33 24547580.41 24547580.50 0.0278 0.0241

Earth 62497-11-08 18:43 G 24547933.14 24547933.28 24547933.41 0.2649 0.0893

Moon 62497-11-08 19:26 G 24547933.17 24547933.31 24547933.45 0.2644 0.0897 *

Mars 62498-04-27 19:55 G 24548103.19 24548103.33 24548103.47 0.1901 0.0565

Jupiter 62500-03-04 03:07 G 24548778.50 24548778.63 24548778.76 0.0540 0.0096

Moon 62502-05-03 07:41 G 24549568.75 24549568.82 24549568.90 0.2692 0.2043

Earth 62502-05-03 07:41 G 24549568.75 24549568.82 24549568.89 0.2685 0.2103 *

Mars 62503-01-18 20:10 G 24549829.21 24549829.34 24549829.47 0.1622 0.0222

Jupiter 62506-04-16 09:22 G 24551012.71 24551012.89 24551013.06 0.0488 0.0043

Mars 62507-09-18 20:38 G 24551533.25 24551533.36 24551533.48 0.1903 0.1150

Earth 62508-05-12 06:00 G 24551769.71 24551769.75 24551769.79 0.2681 0.2481

Moon 62508-05-12 06:14 G 24551769.72 24551769.76 24551769.79 0.2674 0.2527 *

Saturn 62511-06-26 20:10 G 24552910.30 24552910.34 24552910.39 0.0279 0.0259

Saturn 62511-09-23 09:07 G 24552998.75 24552998.88 24552999.01 0.0279 0.0110

Saturn 62511-12-20 21:50 G 24553087.27 24553087.41 24553087.54 0.0280 0.0039

Jupiter 62511-12-22 06:29 G 24553088.64 24553088.77 24553088.91 0.0541 0.0085

Saturn 62512-03-18 10:19 G 24553175.82 24553175.93 24553176.03 0.0280 0.0185

Mars 62512-06-10 05:17 G 24553259.62 24553259.72 24553259.82 0.1620 0.1028

Venus 62513-03-06 19:12 G 24553529.21 24553529.30 24553529.38 0.3682 0.2191

Venus 62514-09-21 21:07 G 24554093.26 24554093.38 24554093.50 0.3689 0.2022

Earth 62515-05-06 02:53 G 24554319.51 24554319.62 24554319.73 0.2684 0.0861

Moon 62515-05-06 03:22 G 24554319.54 24554319.64 24554319.75 0.2689 0.0861 *

Earth 62517-11-04 18:14 G 24555233.24 24555233.26 24555233.29 0.2647 0.2581

Moon 62517-11-04 19:41 G 24555233.28 24555233.32 24555233.36 0.2648 0.2518 *

Jupiter 62518-02-02 08:53 G 24555322.70 24555322.87 24555323.03 0.0488 0.0143

Venus 62518-09-20 11:17 G 24555552.87 24555552.97 24555553.07 0.3682 0.0513

Mars 62523-10-07 01:12 G 24557395.50 24557395.55 24557395.60 0.1625 0.1490

Jupiter 62523-10-10 10:05 G 24557398.80 24557398.92 24557399.03 0.0541 0.0265

Jupiter 62524-01-07 20:10 G 24557488.29 24557488.34 24557488.40 0.0539 0.0490

Venus 62524-04-05 03:07 G 24557576.58 24557576.63 24557576.69 0.3681 0.3154

Saturn 62525-10-15 04:34 G 24558134.58 24558134.69 24558134.81 0.0279 0.0197

Saturn 62526-01-11 23:46 G 24558223.32 24558223.49 24558223.66 0.0279 0.0018

Saturn 62526-04-10 18:58 G 24558312.16 24558312.29 24558312.44 0.0278 0.0165

Earth 62528-05-07 21:36 G 24559070.29 24559070.40 24559070.52 0.2683 0.0358

Moon 62528-05-07 22:19 G 24559070.32 24559070.43 24559070.55 0.2683 0.0481 *

Jupiter 62529-11-21 08:53 G 24559632.74 24559632.87 24559633.00 0.0487 0.0318

Jupiter 62530-02-19 08:53 G 24559722.79 24559722.87 24559722.96 0.0489 0.0426

Earth 62530-11-07 21:22 G 24559984.25 24559984.39 24559984.53 0.2648 0.0703

Moon 62530-11-07 22:48 G 24559984.30 24559984.45 24559984.59 0.2647 0.0580 *

Mars 62533-02-26 10:48 G 24560825.83 24560825.95 24560826.06 0.1623 0.0704

Jupiter 62535-07-29 12:43 G 24561708.97 24561709.03 24561709.10 0.0541 0.0458

Uranus 62535-10-26 00:14 G 24561797.45 24561797.51 24561797.59 0.0137 0.0120

Jupiter 62535-10-26 23:31 G 24561798.37 24561798.48 24561798.59 0.0539 0.0306

Uranus 62536-01-22 04:05 G 24561885.58 24561885.67 24561885.77 0.0137 0.0099

Uranus 62536-04-19 07:26 G 24561973.71 24561973.81 24561973.93 0.0137 0.0079

Uranus 62536-07-16 11:17 G 24562061.84 24562061.97 24562062.09 0.0137 0.0058

Uranus 62536-10-12 14:53 G 24562149.98 24562150.12 24562150.25 0.0137 0.0038

Uranus 62537-01-08 18:29 G 24562238.13 24562238.27 24562238.40 0.0137 0.0018

Uranus 62537-04-06 21:50 G 24562326.28 24562326.41 24562326.55 0.0137 0.0003

Uranus 62537-07-04 01:26 G 24562414.42 24562414.56 24562414.69 0.0137 0.0022

Uranus 62537-09-30 04:48 G 24562502.57 24562502.70 24562502.83 0.0137 0.0043

Mars 62537-10-27 19:55 G 24562530.20 24562530.33 24562530.46 0.1901 0.0732

Uranus 62537-12-27 08:10 G 24562590.73 24562590.84 24562590.97 0.0138 0.0063

Uranus 62538-03-25 11:46 G 24562678.89 24562678.99 24562679.10 0.0138 0.0082

Uranus 62538-06-21 15:22 G 24562767.05 24562767.14 24562767.23 0.0138 0.0102

Uranus 62538-09-17 18:43 G 24562855.22 24562855.28 24562855.34 0.0138 0.0122

Saturn 62541-02-09 09:50 G 24563730.80 24563730.91 24563731.02 0.0280 0.0165

Saturn 62541-05-08 22:34 G 24563819.30 24563819.44 24563819.58 0.0281 0.0016

Earth 62541-05-10 16:19 G 24563821.09 24563821.18 24563821.28 0.2682 0.1542

Moon 62541-05-10 17:02 G 24563821.12 24563821.21 24563821.30 0.2677 0.1601 *

Saturn 62541-08-05 11:02 G 24563907.84 24563907.96 24563908.09 0.0281 0.0133

Saturn 62541-11-01 23:31 G 24563996.47 24563996.48 24563996.50 0.0281 0.0278

Jupiter 62541-12-08 08:24 G 24564032.71 24564032.85 24564033.01 0.0489 0.0241

Mars 62542-07-19 20:10 G 24564256.21 24564256.34 24564256.47 0.1622 0.0093

Earth 62543-11-11 00:43 G 24564735.40 24564735.53 24564735.66 0.2650 0.1253

Moon 62543-11-11 01:26 G 24564735.43 24564735.56 24564735.69 0.2643 0.1370 *

Mars 62547-03-19 20:53 G 24565960.25 24565960.37 24565960.50 0.1903 0.0973

Jupiter 62547-08-15 02:38 G 24566108.48 24566108.61 24566108.74 0.0539 0.0119

Earth 62548-05-03 12:43 G 24566370.95 24566371.03 24566371.11 0.2685 0.1867

Moon 62548-05-03 12:58 G 24566370.96 24566371.04 24566371.12 0.2692 0.1908 *

Neptune 62551-03-25 18:29 G 24567427.26 24567427.27 24567427.28 0.0089 0.0089

Neptune 62551-06-21 19:55 G 24567515.28 24567515.33 24567515.39 0.0089 0.0081

Neptune 62551-09-17 21:22 G 24567603.32 24567603.39 24567603.48 0.0089 0.0073

Mars 62551-12-10 05:31 G 24567686.62 24567686.73 24567686.84 0.1620 0.0895

Neptune 62551-12-14 23:02 G 24567691.37 24567691.46 24567691.56 0.0089 0.0064

Neptune 62552-03-12 00:29 G 24567779.42 24567779.52 24567779.64 0.0089 0.0056

Neptune 62552-06-08 02:24 G 24567867.48 24567867.60 24567867.72 0.0089 0.0048

Neptune 62552-09-04 03:50 G 24567955.54 24567955.66 24567955.79 0.0089 0.0040

Neptune 62552-12-01 05:17 G 24568043.60 24568043.72 24568043.86 0.0089 0.0032

Neptune 62553-02-27 06:58 G 24568131.66 24568131.79 24568131.93 0.0089 0.0023

Neptune 62553-05-26 08:24 G 24568219.72 24568219.85 24568219.99 0.0089 0.0016

Neptune 62553-08-22 10:05 G 24568307.78 24568307.92 24568308.06 0.0089 0.0007

Jupiter 62553-09-26 08:10 G 24568342.67 24568342.84 24568343.01 0.0488 0.0056

Neptune 62553-11-18 11:31 G 24568395.84 24568395.98 24568396.12 0.0089 0.0002

Neptune 62554-02-14 12:58 G 24568483.91 24568484.04 24568484.18 0.0089 0.0010

Moon 62554-05-13 10:48 G 24568571.94 24568571.95 24568571.96 0.2674 0.2655

Neptune 62554-05-13 14:24 G 24568571.97 24568572.10 24568572.24 0.0089 0.0018

Neptune 62554-08-09 16:05 G 24568660.04 24568660.17 24568660.30 0.0089 0.0025

Neptune 62554-11-05 17:31 G 24568748.11 24568748.23 24568748.36 0.0089 0.0033

Neptune 62555-02-01 18:58 G 24568836.17 24568836.29 24568836.42 0.0089 0.0041

Saturn 62555-03-04 04:48 G 24568866.63 24568866.70 24568866.79 0.0280 0.0245

Neptune 62555-04-30 20:38 G 24568924.24 24568924.36 24568924.47 0.0089 0.0049

Saturn 62555-06-01 00:00 G 24568955.33 24568955.50 24568955.67 0.0279 0.0066

Neptune 62555-07-27 22:05 G 24569012.31 24569012.42 24569012.52 0.0089 0.0056

Saturn 62555-08-28 19:12 G 24569044.15 24569044.30 24569044.46 0.0279 0.0117

Neptune 62555-10-23 23:17 G 24569100.39 24569100.47 24569100.57 0.0089 0.0065

Neptune 62556-01-20 00:43 G 24569188.46 24569188.53 24569188.62 0.0089 0.0073

Neptune 62556-04-17 02:10 G 24569276.54 24569276.59 24569276.66 0.0089 0.0080

Neptune 62556-07-14 03:36 G 24569364.64 24569364.65 24569364.68 0.0089 0.0088

Jupiter 62559-06-03 05:02 G 24570418.58 24570418.71 24570418.84 0.0541 0.0083

Earth 62561-05-06 07:55 G 24571121.71 24571121.83 24571121.94 0.2684 0.0638

Moon 62561-05-06 08:24 G 24571121.74 24571121.85 24571121.97 0.2688 0.0487 *

Mars 62563-04-07 01:26 G 24571822.55 24571822.56 24571822.57 0.1625 0.1618

Earth 62563-11-06 00:29 G 24572035.44 24572035.52 24572035.59 0.2647 0.2240

Moon 62563-11-06 01:55 G 24572035.48 24572035.58 24572035.67 0.2648 0.2018 *

Jupiter 62565-07-15 07:55 G 24572652.67 24572652.83 24572653.00 0.0487 0.0124

Venus 62565-10-12 17:02 G 24572742.11 24572742.21 24572742.32 0.3688 0.2493

Venus 62569-10-11 16:48 G 24574202.10 24574202.20 24574202.30 0.3682 0.1172

Saturn 62570-06-29 12:29 G 24574462.92 24574463.02 24574463.11 0.0279 0.0200

Saturn 62570-09-26 01:12 G 24574551.41 24574551.55 24574551.69 0.0280 0.0052

Saturn 62570-12-23 13:41 G 24574639.94 24574640.07 24574640.20 0.0280 0.0096

Saturn 62571-03-22 02:10 G 24574728.52 24574728.59 24574728.66 0.0280 0.0241

Jupiter 62571-03-22 08:10 G 24574728.73 24574728.84 24574728.96 0.0541 0.0267

Jupiter 62571-06-19 18:43 G 24574818.23 24574818.28 24574818.33 0.0539 0.0489

Mars 62572-08-27 11:02 G 24575252.85 24575252.96 24575253.07 0.1623 0.0837

Earth 62574-05-09 02:38 G 24575872.50 24575872.61 24575872.72 0.2683 0.0581

Moon 62574-05-09 03:22 G 24575872.53 24575872.64 24575872.75 0.2681 0.0605 *

Venus 62575-04-27 08:53 G 24576225.77 24576225.87 24576225.96 0.3682 0.1522

Uranus 62576-02-18 22:19 G 24576523.41 24576523.43 24576523.48 0.0141 0.0138

Uranus 62576-05-17 05:17 G 24576611.62 24576611.72 24576611.85 0.0141 0.0109

Uranus 62576-08-13 12:29 G 24576699.88 24576700.02 24576700.17 0.0141 0.0080

Earth 62576-11-08 03:22 G 24576786.50 24576786.64 24576786.79 0.2648 0.0362

Moon 62576-11-08 04:48 G 24576786.55 24576786.70 24576786.84 0.2646 0.0264 *

Uranus 62576-11-09 19:41 G 24576788.15 24576788.32 24576788.49 0.0141 0.0051

Uranus 62577-02-06 02:38 G 24576876.43 24576876.61 24576876.79 0.0141 0.0023

Mars 62577-04-27 20:24 G 24576957.22 24576957.35 24576957.47 0.1901 0.0922

Pluto 62577-04-30 03:07 G 24576959.53 24576959.63 24576959.75 0.0078 0.0060

Jupiter 62577-05-03 07:26 G 24576962.68 24576962.81 24576962.95 0.0487 0.0307

Uranus 62577-05-05 09:50 G 24576964.73 24576964.91 24576965.09 0.0141 0.0006

Pluto 62577-07-27 05:17 G 24577047.58 24577047.72 24577047.88 0.0078 0.0039

Jupiter 62577-08-01 07:26 G 24577052.74 24577052.81 24577052.89 0.0489 0.0437

Uranus 62577-08-01 16:48 G 24577053.03 24577053.20 24577053.39 0.0141 0.0036

Pluto 62577-10-23 07:26 G 24577135.64 24577135.81 24577135.98 0.0078 0.0018

Uranus 62577-10-29 00:00 G 24577141.35 24577141.50 24577141.67 0.0141 0.0065

Pluto 62578-01-19 09:22 G 24577223.72 24577223.89 24577224.07 0.0078 0.0004

Uranus 62578-01-25 07:26 G 24577229.67 24577229.81 24577229.95 0.0141 0.0094

Pluto 62578-04-17 11:17 G 24577311.81 24577311.97 24577312.14 0.0077 0.0025

Uranus 62578-04-23 14:24 G 24577318.03 24577318.10 24577318.20 0.0141 0.0124

Pluto 62578-07-14 13:12 G 24577399.92 24577400.05 24577400.20 0.0077 0.0045

Pluto 62578-10-10 15:07 G 24577488.06 24577488.13 24577488.23 0.0077 0.0066

Mars 62582-01-17 20:24 G 24578683.22 24578683.35 24578683.48 0.1622 0.0054

Jupiter 62583-01-08 11:31 G 24579038.91 24579038.98 24579039.06 0.0541 0.0449

Jupiter 62583-04-07 22:19 G 24579128.33 24579128.43 24579128.54 0.0539 0.0317

Saturn 62584-10-17 21:36 G 24579687.25 24579687.40 24579687.55 0.0279 0.0137

Saturn 62585-01-14 16:48 G 24579776.03 24579776.20 24579776.37 0.0279 0.0044

Saturn 62585-04-13 12:14 G 24579864.91 24579865.01 24579865.11 0.0278 0.0227

Mars 62586-09-17 21:22 G 24580387.26 24580387.39 24580387.52 0.1903 0.0782

Earth 62587-05-11 21:22 G 24580623.31 24580623.39 24580623.47 0.2682 0.1760

Moon 62587-05-11 21:50 G 24580623.33 24580623.41 24580623.49 0.2677 0.1823 *

Jupiter 62589-02-19 07:41 G 24581272.80 24581272.82 24581272.85 0.0487 0.0480

Jupiter 62589-05-20 07:12 G 24581362.65 24581362.80 24581362.95 0.0489 0.0253

Earth 62589-11-11 06:58 G 24581537.67 24581537.79 24581537.91 0.2650 0.1608

Moon 62589-11-11 07:41 G 24581537.70 24581537.82 24581537.93 0.2644 0.1636 *

Mars 62591-06-10 05:31 G 24582113.62 24582113.73 24582113.85 0.1620 0.0763

Earth 62594-05-04 17:46 G 24583173.15 24583173.24 24583173.33 0.2685 0.1633

Moon 62594-05-04 18:00 G 24583173.16 24583173.25 24583173.35 0.2691 0.1552 *

Jupiter 62595-01-25 01:41 G 24583438.44 24583438.57 24583438.70 0.0540 0.0133

Saturn 62599-11-16 12:43 G 24585194.99 24585195.03 24585195.09 0.0280 0.0258

Saturn 62600-02-13 01:41 G 24585283.45 24585283.57 24585283.71 0.0280 0.0108

Saturn 62600-05-12 14:24 G 24585371.97 24585372.10 24585372.24 0.0280 0.0042

Saturn 62600-08-09 02:53 G 24585460.52 24585460.62 24585460.73 0.0281 0.0188

Mars 62600-10-31 14:53 G 24585544.09 24585544.12 24585544.14 0.1619 0.1574

Jupiter 62601-03-09 06:58 G 24585672.62 24585672.79 24585672.96 0.0488 0.0070

Jupiter 62606-11-14 04:34 G 24587748.55 24587748.69 24587748.82 0.0540 0.0059

Earth 62607-05-08 12:43 G 24587923.92 24587924.03 24587924.15 0.2684 0.0402

Moon 62607-05-08 13:26 G 24587923.95 24587924.06 24587924.17 0.2687 0.0394 *

Earth 62609-11-07 06:29 G 24588837.67 24588837.77 24588837.87 0.2647 0.1903

Moon 62609-11-07 07:55 G 24588837.72 24588837.83 24588837.93 0.2649 0.1857 *

Mars 62612-02-27 11:02 G 24589679.86 24589679.96 24589680.06 0.1623 0.0964

Jupiter 62612-12-26 06:43 G 24589982.61 24589982.78 24589982.95 0.0488 0.0110

Saturn 62614-03-07 21:36 G 24590419.28 24590419.40 24590419.53 0.0280 0.0187

Saturn 62614-06-04 16:48 G 24590508.03 24590508.20 24590508.37 0.0279 0.0007

Saturn 62614-09-01 12:14 G 24590596.88 24590597.01 24590597.15 0.0279 0.0177

Mars 62616-10-27 20:53 G 24591384.25 24591384.37 24591384.48 0.1901 0.1126

Jupiter 62618-09-02 06:43 G 24592058.66 24592058.78 24592058.89 0.0541 0.0265

Jupiter 62618-11-30 17:02 G 24592148.16 24592148.21 24592148.26 0.0539 0.0490

Uranus 62619-08-20 04:34 G 24592410.66 24592410.69 24592410.73 0.0137 0.0131

Uranus 62619-11-16 08:10 G 24592498.77 24592498.84 24592498.93 0.0137 0.0111

Uranus 62620-02-12 12:00 G 24592586.89 24592587.00 24592587.10 0.0137 0.0090

Earth 62620-05-10 07:41 G 24592674.71 24592674.82 24592674.93 0.2683 0.0807

Moon 62620-05-10 08:24 G 24592674.74 24592674.85 24592674.95 0.2680 0.0956 *

Uranus 62620-05-10 15:22 G 24592675.03 24592675.14 24592675.27 0.0137 0.0070

Uranus 62620-08-06 18:58 G 24592763.17 24592763.29 24592763.42 0.0137 0.0050

Uranus 62620-11-02 22:34 G 24592851.31 24592851.44 24592851.58 0.0137 0.0030

Venus 62620-11-02 22:05 G 24592851.36 24592851.42 24592851.49 0.3683 0.2877 *

Uranus 62621-01-30 02:10 G 24592939.45 24592939.59 24592939.73 0.0137 0.0009

Uranus 62621-04-28 05:46 G 24593027.60 24593027.74 24593027.88 0.0137 0.0011

Mars 62621-07-19 20:24 G 24593110.22 24593110.35 24593110.48 0.1622 0.0181

Uranus 62621-07-25 09:07 G 24593115.75 24593115.88 24593116.02 0.0137 0.0031

Uranus 62621-10-21 12:43 G 24593203.90 24593204.03 24593204.16 0.0138 0.0051

Uranus 62622-01-17 16:05 G 24593292.06 24593292.17 24593292.29 0.0138 0.0071

Uranus 62622-04-15 19:41 G 24593380.22 24593380.32 24593380.42 0.0138 0.0091

Venus 62622-05-20 18:00 G 24593415.10 24593415.25 24593415.39 0.3688 0.0170

Uranus 62622-07-12 23:02 G 24593468.38 24593468.46 24593468.54 0.0138 0.0111

Uranus 62622-10-09 02:24 G 24593556.57 24593556.60 24593556.65 0.0138 0.0131

Earth 62622-11-10 09:36 G 24593588.75 24593588.90 24593589.04 0.2649 0.0040

Moon 62622-11-10 10:34 G 24593588.79 24593588.94 24593589.09 0.2644 0.0180 *

Jupiter 62624-10-14 06:43 G 24594292.64 24594292.78 24594292.92 0.0487 0.0286

Jupiter 62625-01-12 06:43 G 24594382.72 24594382.78 24594382.84 0.0489 0.0456

Mars 62626-03-19 21:36 G 24594814.27 24594814.40 24594814.54 0.1903 0.0590

Venus 62626-05-19 14:24 G 24594874.99 24594875.10 24594875.20 0.3682 0.0200

Moon 62627-05-04 03:22 G 24595224.63 24595224.64 24595224.64 0.2693 0.2683

Earth 62627-05-04 03:36 G 24595224.64 24595224.65 24595224.66 0.2686 0.2656 *

Saturn 62629-07-03 04:34 G 24596015.57 24596015.69 24596015.81 0.0279 0.0141

Saturn 62629-09-29 17:17 G 24596104.08 24596104.22 24596104.36 0.0280 0.0007

Saturn 62629-12-27 05:46 G 24596192.63 24596192.74 24596192.86 0.0280 0.0154

Jupiter 62630-06-21 09:50 G 24596368.83 24596368.91 24596368.98 0.0542 0.0454

Jupiter 62630-09-18 20:38 G 24596458.25 24596458.36 24596458.46 0.0540 0.0314

Mars 62630-12-10 05:46 G 24596540.62 24596540.74 24596540.86 0.1620 0.0627

Venus 62631-12-03 06:14 G 24596898.69 24596898.76 24596898.84 0.3681 0.2517

Earth 62633-05-13 02:24 G 24597425.52 24597425.60 24597425.67 0.2682 0.1984

Moon 62633-05-13 02:38 G 24597425.53 24597425.61 24597425.69 0.2676 0.1976 *

Neptune 62635-05-21 03:36 G 24598163.58 24598163.65 24598163.75 0.0088 0.0078

Neptune 62635-08-17 06:43 G 24598251.68 24598251.78 24598251.90 0.0088 0.0068

Neptune 62635-11-13 09:50 G 24598339.78 24598339.91 24598340.05 0.0088 0.0058

Earth 62635-11-13 13:12 G 24598339.95 24598340.05 24598340.15 0.2650 0.1975 *

Moon 62635-11-13 13:41 G 24598339.97 24598340.07 24598340.16 0.2644 0.2029 *

Neptune 62636-02-09 12:43 G 24598427.89 24598428.03 24598428.19 0.0088 0.0048

Neptune 62636-05-07 15:50 G 24598516.00 24598516.16 24598516.32 0.0088 0.0038

Jupiter 62636-08-02 06:29 G 24598602.72 24598602.77 24598602.81 0.0487 0.0468

Neptune 62636-08-03 18:43 G 24598604.11 24598604.28 24598604.46 0.0088 0.0028

Neptune 62636-10-30 21:50 G 24598692.23 24598692.41 24598692.59 0.0088 0.0018

Jupiter 62636-10-31 05:46 G 24598692.60 24598692.74 24598692.89 0.0488 0.0263

Neptune 62637-01-27 00:58 G 24598780.36 24598780.54 24598780.72 0.0088 0.0008

Neptune 62637-04-25 03:50 G 24598868.48 24598868.66 24598868.85 0.0088 0.0003

Neptune 62637-07-22 06:58 G 24598956.61 24598956.79 24598956.97 0.0088 0.0012

Neptune 62637-10-18 09:50 G 24599044.74 24599044.91 24599045.10 0.0088 0.0023

Neptune 62638-01-14 12:58 G 24599132.88 24599133.04 24599133.22 0.0088 0.0033

Neptune 62638-04-12 16:05 G 24599221.02 24599221.17 24599221.34 0.0088 0.0043

Neptune 62638-07-09 19:26 G 24599309.16 24599309.31 24599309.45 0.0088 0.0054

Neptune 62638-10-05 22:05 G 24599397.31 24599397.42 24599397.56 0.0088 0.0064

Neptune 62639-01-02 01:26 G 24599485.47 24599485.56 24599485.66 0.0088 0.0074

Neptune 62639-03-31 04:19 G 24599573.65 24599573.68 24599573.75 0.0088 0.0085

Mars 62640-05-01 14:53 G 24599971.07 24599971.12 24599971.18 0.1619 0.1440

Earth 62640-05-05 22:48 G 24599975.35 24599975.45 24599975.55 0.2685 0.1399

Moon 62640-05-05 23:17 G 24599975.37 24599975.47 24599975.56 0.2691 0.1393 *

Jupiter 62642-07-08 00:14 G 24600768.38 24600768.51 24600768.64 0.0540 0.0139

Saturn 62643-07-25 19:55 G 24601151.26 24601151.33 24601151.41 0.0280 0.0252

Saturn 62643-10-22 14:53 G 24601239.96 24601240.12 24601240.29 0.0279 0.0073

Saturn 62644-01-19 10:19 G 24601328.77 24601328.93 24601329.09 0.0279 0.0108

Jupiter 62648-08-19 05:31 G 24603002.56 24603002.73 24603002.90 0.0488 0.0081

Mars 62651-08-28 11:02 G 24604106.87 24604106.96 24604107.06 0.1623 0.1090

Earth 62653-05-08 17:46 G 24604726.12 24604726.24 24604726.35 0.2684 0.0176

Moon 62653-05-08 18:29 G 24604726.15 24604726.27 24604726.38 0.2685 0.0038 *

Jupiter 62654-04-26 03:22 G 24605078.51 24605078.64 24605078.77 0.0540 0.0047

Earth 62655-11-08 12:29 G 24605639.91 24605640.02 24605640.14 0.2647 0.1558

Moon 62655-11-08 13:55 G 24605639.95 24605640.08 24605640.20 0.2648 0.1327 *

Mars 62656-04-27 20:53 G 24605811.26 24605811.37 24605811.47 0.1901 0.1293

Saturn 62658-11-20 05:02 G 24606747.62 24606747.71 24606747.82 0.0280 0.0197

Saturn 62659-02-16 18:00 G 24606836.11 24606836.25 24606836.39 0.0280 0.0048

Saturn 62659-05-16 06:29 G 24606924.64 24606924.77 24606924.91 0.0280 0.0100

Saturn 62659-08-12 18:58 G 24607013.23 24607013.29 24607013.36 0.0281 0.0245

Uranus 62660-03-11 06:43 G 24607224.71 24607224.78 24607224.87 0.0141 0.0126

Jupiter 62660-06-07 05:17 G 24607312.55 24607312.72 24607312.89 0.0488 0.0100

Uranus 62660-06-07 13:41 G 24607312.95 24607313.07 24607313.21 0.0141 0.0097

Uranus 62660-09-03 20:53 G 24607401.21 24607401.37 24607401.53 0.0141 0.0068

Uranus 62660-12-01 03:50 G 24607489.49 24607489.66 24607489.84 0.0141 0.0040

Mars 62661-01-17 20:38 G 24607537.23 24607537.36 24607537.49 0.1622 0.0305

Uranus 62661-02-27 11:02 G 24607577.78 24607577.96 24607578.14 0.0141 0.0011

Uranus 62661-05-26 18:00 G 24607666.07 24607666.25 24607666.44 0.0141 0.0019

Uranus 62661-08-23 01:12 G 24607754.38 24607754.55 24607754.73 0.0141 0.0047

Uranus 62661-11-19 08:24 G 24607842.70 24607842.85 24607843.01 0.0141 0.0077

Uranus 62662-02-15 15:36 G 24607931.04 24607931.15 24607931.27 0.0141 0.0106

Uranus 62662-05-14 22:34 G 24608019.41 24608019.44 24608019.50 0.0141 0.0136

Mars 62665-09-17 21:50 G 24609241.27 24609241.41 24609241.55 0.1903 0.0421

Jupiter 62666-02-12 06:14 G 24609388.64 24609388.76 24609388.88 0.0541 0.0240

Earth 62666-05-11 12:29 G 24609476.92 24609477.02 24609477.13 0.2683 0.1030

Moon 62666-05-11 13:12 G 24609476.95 24609477.05 24609477.16 0.2680 0.1040 *

Jupiter 62666-05-12 16:34 G 24609478.15 24609478.19 24609478.23 0.0539 0.0512

Earth 62668-11-10 15:36 G 24610391.01 24610391.15 24610391.30 0.2649 0.0351

Moon 62668-11-10 16:48 G 24610391.05 24610391.20 24610391.35 0.2644 0.0376 *

Mars 62670-06-10 06:00 G 24610967.62 24610967.75 24610967.87 0.1620 0.0496

Jupiter 62672-03-26 05:31 G 24611622.59 24611622.73 24611622.87 0.0487 0.0274

Jupiter 62672-06-24 05:17 G 24611712.68 24611712.72 24611712.77 0.0489 0.0470

Saturn 62673-03-10 14:38 G 24611971.97 24611972.11 24611972.27 0.0280 0.0126

Moon 62673-05-04 08:38 G 24612026.81 24612026.86 24612026.91 0.2693 0.2412

Earth 62673-05-04 08:38 G 24612026.81 24612026.86 24612026.91 0.2686 0.2417 *

Saturn 62673-06-07 10:05 G 24612060.75 24612060.92 24612061.09 0.0279 0.0056

Saturn 62673-09-04 05:31 G 24612149.65 24612149.73 24612149.82 0.0279 0.0239

Venus 62677-06-09 19:41 G 24613524.23 24613524.32 24613524.41 0.3682 0.1845

Jupiter 62677-12-01 08:10 G 24613698.77 24613698.84 24613698.91 0.0542 0.0453

Jupiter 62678-02-28 18:58 G 24613788.19 24613788.29 24613788.40 0.0540 0.0314

Venus 62678-12-25 18:58 G 24614088.17 24614088.29 24614088.40 0.3689 0.2191

Earth 62679-05-14 07:12 G 24614227.74 24614227.80 24614227.87 0.2681 0.2198

Moon 62679-05-14 07:26 G 24614227.75 24614227.81 24614227.87 0.2675 0.2263 *

Mars 62679-10-31 15:07 G 24614398.05 24614398.13 24614398.21 0.1619 0.1301

Earth 62681-11-13 19:12 G 24615142.23 24615142.30 24615142.37 0.2650 0.2333

Moon 62681-11-13 19:26 G 24615142.25 24615142.31 24615142.37 0.2644 0.2370 *

Venus 62682-12-24 11:46 G 24615547.89 24615547.99 24615548.10 0.3682 0.0878

Jupiter 62684-01-13 05:31 G 24615932.67 24615932.73 24615932.79 0.0487 0.0449

Jupiter 62684-04-12 04:48 G 24616022.57 24616022.70 24616022.85 0.0488 0.0284

Earth 62686-05-07 03:50 G 24616777.55 24616777.66 24616777.76 0.2685 0.1171

Moon 62686-05-07 04:05 G 24616777.57 24616777.67 24616777.78 0.2691 0.1101 *

Saturn 62688-04-08 08:10 G 24617479.76 24617479.84 24617479.93 0.0279 0.0227

Saturn 62688-07-05 21:07 G 24617568.24 24617568.38 24617568.51 0.0279 0.0078

Venus 62688-07-09 03:50 G 24617571.63 24617571.66 24617571.69 0.3681 0.3503

Saturn 62688-10-02 09:36 G 24617656.77 24617656.90 24617657.04 0.0280 0.0070

Saturn 62688-12-29 22:05 G 24617745.34 24617745.42 24617745.51 0.0280 0.0215

Jupiter 62689-12-17 22:19 G 24618098.30 24618098.43 24618098.56 0.0540 0.0133

Mars 62691-02-26 11:17 G 24618533.89 24618533.97 24618534.06 0.1623 0.1224

Mars 62695-10-27 21:07 G 24620238.30 24620238.38 24620238.47 0.1901 0.1484

Jupiter 62696-01-30 04:05 G 24620332.50 24620332.67 24620332.84 0.0488 0.0091

Earth 62699-05-09 22:48 G 24621528.33 24621528.45 24621528.56 0.2684 0.0112

Moon 62699-05-09 23:31 G 24621528.36 24621528.48 24621528.59 0.2684 0.0103 *

Mars 62700-07-19 20:38 G 24621964.24 24621964.36 24621964.49 0.1622 0.0437

Jupiter 62701-10-07 01:55 G 24622408.44 24622408.58 24622408.71 0.0541 0.0046

Earth 62701-11-09 18:43 G 24622442.15 24622442.28 24622442.41 0.2648 0.1213

Moon 62701-11-09 19:55 G 24622442.20 24622442.33 24622442.46 0.2646 0.1169 *

Saturn 62702-07-29 13:41 G 24622703.94 24622704.07 24622704.19 0.0280 0.0185

Saturn 62702-10-26 08:38 G 24622792.69 24622792.86 24622793.03 0.0279 0.0007

Saturn 62703-01-23 03:50 G 24622881.54 24622881.66 24622881.80 0.0279 0.0177

Uranus 62703-09-10 12:14 G 24623111.96 24623112.01 24623112.08 0.0137 0.0123

Uranus 62703-12-07 16:05 G 24623200.08 24623200.17 24623200.26 0.0137 0.0102

Uranus 62704-03-04 19:41 G 24623288.21 24623288.32 24623288.43 0.0137 0.0082

Uranus 62704-05-31 23:02 G 24623376.35 24623376.46 24623376.59 0.0137 0.0062

Uranus 62704-08-28 02:53 G 24623464.49 24623464.62 24623464.75 0.0137 0.0041

Uranus 62704-11-24 06:29 G 24623552.63 24623552.77 24623552.90 0.0137 0.0022

Uranus 62705-02-20 09:50 G 24623640.78 24623640.91 24623641.05 0.0137 0.0004

Mars 62705-03-19 22:19 G 24623668.28 24623668.43 24623668.57 0.1903 0.0227

Uranus 62705-05-19 13:26 G 24623728.92 24623729.06 24623729.20 0.0137 0.0019

Uranus 62705-08-15 16:48 G 24623817.07 24623817.20 24623817.34 0.0137 0.0039

Uranus 62705-11-11 20:24 G 24623905.23 24623905.35 24623905.47 0.0138 0.0059

Uranus 62706-02-07 23:46 G 24623993.38 24623993.49 24623993.61 0.0138 0.0079

Uranus 62706-05-07 03:07 G 24624081.55 24624081.63 24624081.73 0.0138 0.0099

Uranus 62706-08-03 06:29 G 24624169.72 24624169.77 24624169.85 0.0138 0.0119

Jupiter 62707-11-19 03:50 G 24624642.49 24624642.66 24624642.83 0.0488 0.0090

Mars 62709-12-10 06:00 G 24625394.62 24625394.75 24625394.88 0.1620 0.0364

Earth 62712-05-12 17:31 G 24626279.13 24626279.23 24626279.33 0.2683 0.1251

Moon 62712-05-12 18:14 G 24626279.16 24626279.26 24626279.35 0.2679 0.1388 *

Jupiter 62713-07-26 05:02 G 24626718.59 24626718.71 24626718.83 0.0541 0.0232

Jupiter 62713-10-23 15:22 G 24626808.11 24626808.14 24626808.17 0.0539 0.0521

Mars 62714-08-09 23:17 G 24627098.47 24627098.47 24627098.48 0.1905 0.1898

Earth 62714-11-12 21:50 G 24627193.27 24627193.41 24627193.55 0.2649 0.0707

Moon 62714-11-12 22:48 G 24627193.31 24627193.45 24627193.59 0.2644 0.0900 *

Neptune 62715-12-22 17:02 G 24627598.19 24627598.21 24627598.24 0.0089 0.0088

Neptune 62716-03-19 18:29 G 24627686.22 24627686.27 24627686.35 0.0089 0.0080

Neptune 62716-06-15 20:10 G 24627774.27 24627774.34 24627774.43 0.0089 0.0071

Neptune 62716-09-11 21:36 G 24627862.32 24627862.40 24627862.51 0.0089 0.0064

Neptune 62716-12-08 23:31 G 24627950.37 24627950.48 24627950.59 0.0089 0.0055

Neptune 62717-03-07 00:58 G 24628038.43 24628038.54 24628038.67 0.0089 0.0047

Neptune 62717-06-03 02:38 G 24628126.49 24628126.61 24628126.74 0.0089 0.0038

Neptune 62717-08-30 04:05 G 24628214.55 24628214.67 24628214.81 0.0089 0.0030

Saturn 62717-11-23 21:50 G 24628300.28 24628300.41 24628300.53 0.0280 0.0134

Neptune 62717-11-26 05:46 G 24628302.61 24628302.74 24628302.88 0.0089 0.0022

Saturn 62718-02-20 10:34 G 24628388.80 24628388.94 24628389.08 0.0280 0.0015

Neptune 62718-02-22 07:12 G 24628390.67 24628390.80 24628390.94 0.0089 0.0014

Saturn 62718-05-19 23:02 G 24628477.35 24628477.46 24628477.57 0.0281 0.0161

Neptune 62718-05-21 08:53 G 24628478.73 24628478.87 24628479.01 0.0089 0.0006

Neptune 62718-08-17 10:19 G 24628566.79 24628566.93 24628567.07 0.0089 0.0003

Neptune 62718-11-13 12:00 G 24628654.86 24628655.00 24628655.13 0.0089 0.0011

Neptune 62719-02-09 13:26 G 24628742.92 24628743.06 24628743.20 0.0089 0.0018

Mars 62719-05-02 15:22 G 24628825.05 24628825.14 24628825.23 0.1619 0.1167

Earth 62719-05-06 13:41 G 24628829.00 24628829.07 24628829.13 0.2686 0.2180

Moon 62719-05-06 13:41 G 24628829.01 24628829.07 24628829.14 0.2693 0.2219 *

Neptune 62719-05-08 14:53 G 24628830.99 24628831.12 24628831.25 0.0089 0.0026

Neptune 62719-08-04 16:19 G 24628919.06 24628919.18 24628919.31 0.0089 0.0034

Jupiter 62719-09-07 03:36 G 24628952.52 24628952.65 24628952.80 0.0487 0.0269

Neptune 62719-10-31 17:46 G 24629007.13 24629007.24 24629007.37 0.0089 0.0042

Jupiter 62719-12-06 03:36 G 24629042.62 24629042.65 24629042.70 0.0489 0.0477

Neptune 62720-01-27 19:12 G 24629095.20 24629095.30 24629095.42 0.0089 0.0050

Neptune 62720-04-24 20:38 G 24629183.27 24629183.36 24629183.48 0.0089 0.0058

Neptune 62720-07-21 22:05 G 24629271.34 24629271.42 24629271.52 0.0089 0.0066

Neptune 62720-10-17 23:31 G 24629359.42 24629359.48 24629359.57 0.0089 0.0074

Neptune 62721-01-14 01:12 G 24629447.50 24629447.55 24629447.61 0.0089 0.0082

Jupiter 62725-05-14 07:41 G 24631028.74 24631028.82 24631028.90 0.0541 0.0429

Moon 62725-05-15 12:14 G 24631029.96 24631030.01 24631030.06 0.2674 0.2349

Earth 62725-05-15 12:14 G 24631029.96 24631030.01 24631030.05 0.2681 0.2418 *

Jupiter 62725-08-11 18:29 G 24631118.16 24631118.27 24631118.37 0.0539 0.0336

Moon 62727-11-16 01:26 G 24631944.54 24631944.56 24631944.58 0.2644 0.2615

Venus 62728-07-02 01:12 G 24632173.52 24632173.55 24632173.57 0.3683 0.3565

Venus 62730-01-16 14:53 G 24632737.01 24632737.12 24632737.23 0.3688 0.2296

Mars 62730-08-28 11:31 G 24632960.91 24632960.98 24632961.05 0.1623 0.1349

Jupiter 62731-06-26 03:50 G 24633262.60 24633262.66 24633262.74 0.0487 0.0440

Jupiter 62731-09-24 03:22 G 24633352.51 24633352.64 24633352.78 0.0488 0.0294

Saturn 62731-12-16 13:12 G 24633435.97 24633436.05 24633436.15 0.0280 0.0238

Saturn 62732-03-14 08:24 G 24633524.69 24633524.85 24633525.02 0.0279 0.0059

Earth 62732-05-08 08:38 G 24633579.76 24633579.86 24633579.97 0.2685 0.0938

Moon 62732-05-08 09:22 G 24633579.78 24633579.89 24633580.00 0.2690 0.0876 *

Saturn 62732-06-11 03:50 G 24633613.50 24633613.66 24633613.81 0.0279 0.0123

Venus 62734-01-15 17:17 G 24634197.12 24634197.22 24634197.32 0.3682 0.0823

Moon 62734-11-07 23:02 G 24634493.46 24634493.46 24634493.47 0.2650 0.2647

Mars 62735-04-28 21:36 G 24634665.34 24634665.40 24634665.47 0.1901 0.1692

Jupiter 62737-05-30 20:38 G 24635428.23 24635428.36 24635428.49 0.0540 0.0132

Pluto 62737-08-23 21:36 G 24635513.35 24635513.40 24635513.48 0.0066 0.0059

Pluto 62737-11-19 22:34 G 24635601.35 24635601.44 24635601.54 0.0066 0.0048

Pluto 62738-02-15 23:17 G 24635689.35 24635689.47 24635689.59 0.0066 0.0037

Pluto 62738-05-14 23:46 G 24635777.37 24635777.49 24635777.63 0.0066 0.0027

Pluto 62738-08-11 00:29 G 24635865.38 24635865.52 24635865.67 0.0066 0.0016

Pluto 62738-11-07 01:12 G 24635953.41 24635953.55 24635953.70 0.0066 0.0005

Pluto 62739-02-03 01:55 G 24636041.44 24636041.58 24636041.72 0.0066 0.0006

Pluto 62739-05-02 02:38 G 24636129.47 24636129.61 24636129.75 0.0066 0.0017

Pluto 62739-07-29 03:07 G 24636217.50 24636217.63 24636217.77 0.0066 0.0028

Venus 62739-08-01 09:22 G 24636220.80 24636220.89 24636220.98 0.3682 0.1868

Pluto 62739-10-25 03:36 G 24636305.55 24636305.65 24636305.78 0.0066 0.0039

Mars 62740-01-18 20:53 G 24636391.25 24636391.37 24636391.49 0.1622 0.0567

Pluto 62740-01-21 04:19 G 24636393.60 24636393.68 24636393.79 0.0067 0.0050

Pluto 62740-04-18 04:48 G 24636481.66 24636481.70 24636481.78 0.0067 0.0061

Jupiter 62743-07-13 03:07 G 24637662.46 24637662.63 24637662.80 0.0488 0.0109

Uranus 62744-04-01 14:53 G 24637926.02 24637926.12 24637926.22 0.0141 0.0115

Uranus 62744-06-28 21:36 G 24638014.27 24638014.40 24638014.55 0.0141 0.0087

Mars 62744-09-17 22:34 G 24638095.29 24638095.44 24638095.58 0.1903 0.0071

Uranus 62744-09-25 04:48 G 24638102.54 24638102.70 24638102.87 0.0141 0.0058

Uranus 62744-12-22 11:46 G 24638190.82 24638190.99 24638191.17 0.0141 0.0029

Uranus 62745-03-20 18:58 G 24638279.11 24638279.29 24638279.47 0.0141 0.0002

Earth 62745-05-11 03:36 G 24638330.54 24638330.65 24638330.77 0.2684 0.0293

Moon 62745-05-11 04:34 G 24638330.57 24638330.69 24638330.80 0.2683 0.0412 *

Uranus 62745-06-17 02:10 G 24638367.41 24638367.59 24638367.77 0.0141 0.0029

Uranus 62745-09-13 09:07 G 24638455.72 24638455.88 24638456.05 0.0141 0.0059

Uranus 62745-12-10 16:19 G 24638544.04 24638544.18 24638544.33 0.0141 0.0088

Uranus 62746-03-08 23:31 G 24638632.39 24638632.48 24638632.59 0.0141 0.0117

Saturn 62747-04-13 00:58 G 24639032.43 24639032.54 24639032.66 0.0279 0.0161

Saturn 62747-07-10 13:55 G 24639120.94 24639121.08 24639121.22 0.0280 0.0013

Saturn 62747-10-07 02:24 G 24639209.48 24639209.60 24639209.72 0.0280 0.0134

Earth 62747-11-11 00:43 G 24639244.39 24639244.53 24639244.67 0.2648 0.0863

Moon 62747-11-11 02:10 G 24639244.44 24639244.59 24639244.73 0.2645 0.0653 *

Saturn 62748-01-03 14:53 G 24639298.11 24639298.12 24639298.13 0.0280 0.0278

Jupiter 62749-03-18 23:46 G 24639738.36 24639738.49 24639738.62 0.0541 0.0055

Mars 62749-06-10 06:14 G 24639821.63 24639821.76 24639821.89 0.1620 0.0228

Mars 62754-02-08 00:00 G 24641525.43 24641525.50 24641525.56 0.1905 0.1696

Jupiter 62755-05-01 02:10 G 24641972.42 24641972.59 24641972.76 0.0487 0.0083

Earth 62758-05-13 22:34 G 24643081.34 24643081.44 24643081.53 0.2682 0.1475

Moon 62758-05-13 23:02 G 24643081.36 24643081.46 24643081.55 0.2678 0.1472 *

Mars 62758-10-31 15:22 G 24643252.04 24643252.14 24643252.24 0.1619 0.1034

Earth 62760-11-13 03:50 G 24643995.53 24643995.66 24643995.80 0.2649 0.1067

Moon 62760-11-13 04:48 G 24643995.56 24643995.70 24643995.84 0.2644 0.1055 *

Jupiter 62761-01-05 03:07 G 24644048.51 24644048.63 24644048.75 0.0541 0.0236

Jupiter 62761-04-04 13:41 G 24644138.04 24644138.07 24644138.10 0.0539 0.0521

Saturn 62761-08-01 07:55 G 24644256.68 24644256.83 24644256.99 0.0280 0.0112

Saturn 62761-10-29 03:07 G 24644345.46 24644345.63 24644345.80 0.0279 0.0068

Saturn 62762-01-25 22:34 G 24644434.37 24644434.44 24644434.52 0.0279 0.0251

Moon 62765-05-06 18:43 G 24645631.20 24645631.28 24645631.36 0.2693 0.1879

Earth 62765-05-06 18:43 G 24645631.20 24645631.28 24645631.36 0.2686 0.1944 *

Jupiter 62767-02-17 02:10 G 24646282.44 24646282.59 24646282.73 0.0487 0.0261

Jupiter 62767-05-18 01:55 G 24646372.56 24646372.58 24646372.61 0.0489 0.0483

Mars 62770-02-26 11:31 G 24647387.93 24647387.98 24647388.03 0.1623 0.1474

Earth 62771-05-16 17:02 G 24647832.19 24647832.21 24647832.23 0.2681 0.2630

Jupiter 62772-10-24 06:14 G 24648358.68 24648358.76 24648358.84 0.0541 0.0425

Jupiter 62773-01-21 17:02 G 24648448.11 24648448.21 24648448.31 0.0539 0.0341

Mars 62774-10-27 21:50 G 24649092.38 24649092.41 24649092.44 0.1901 0.1853

Saturn 62776-08-30 01:41 G 24649764.49 24649764.57 24649764.67 0.0279 0.0215

Saturn 62776-11-26 14:38 G 24649852.98 24649853.11 24649853.25 0.0280 0.0066

Saturn 62777-02-23 03:22 G 24649941.51 24649941.64 24649941.77 0.0280 0.0081

Saturn 62777-05-22 15:50 G 24650030.08 24650030.16 24650030.24 0.0281 0.0227

Earth 62778-05-09 13:41 G 24650381.96 24650382.07 24650382.18 0.2685 0.0704

Moon 62778-05-09 14:24 G 24650381.99 24650382.10 24650382.21 0.2688 0.0660 *

Jupiter 62778-12-06 02:10 G 24650592.52 24650592.59 24650592.66 0.0487 0.0437

Jupiter 62779-03-06 01:26 G 24650682.43 24650682.56 24650682.70 0.0488 0.0296

Mars 62779-07-19 21:07 G 24650818.26 24650818.38 24650818.49 0.1622 0.0697

Earth 62780-11-08 03:50 G 24651295.60 24651295.66 24651295.72 0.2646 0.2383

Moon 62780-11-08 05:17 G 24651295.64 24651295.72 24651295.79 0.2648 0.2248 *

Mars 62784-03-18 22:48 G 24652522.31 24652522.45 24652522.59 0.1903 0.0146

Jupiter 62784-11-09 19:55 G 24652758.21 24652758.33 24652758.46 0.0540 0.0153

Venus 62785-02-05 22:34 G 24652846.37 24652846.44 24652846.52 0.3683 0.2542

Venus 62786-08-23 15:36 G 24653410.01 24653410.15 24653410.30 0.3689 0.0037

Uranus 62787-07-04 16:34 G 24653725.17 24653725.19 24653725.22 0.0137 0.0134

Uranus 62787-09-30 20:10 G 24653813.27 24653813.34 24653813.43 0.0137 0.0114

Uranus 62787-12-28 00:00 G 24653901.40 24653901.50 24653901.60 0.0137 0.0093

Uranus 62788-03-25 03:36 G 24653989.53 24653989.65 24653989.77 0.0137 0.0073

Uranus 62788-06-21 06:58 G 24654077.67 24654077.79 24654077.92 0.0137 0.0053

Uranus 62788-09-17 10:34 G 24654165.81 24654165.94 24654166.08 0.0137 0.0033

Mars 62788-12-09 06:29 G 24654248.63 24654248.77 24654248.90 0.1620 0.0111

Uranus 62788-12-14 14:10 G 24654253.95 24654254.09 24654254.23 0.0137 0.0013

Uranus 62789-03-12 17:46 G 24654342.10 24654342.24 24654342.38 0.0137 0.0008

Uranus 62789-06-08 21:07 G 24654430.25 24654430.38 24654430.52 0.0137 0.0028

Uranus 62789-09-05 00:43 G 24654518.40 24654518.53 24654518.66 0.0137 0.0047

Uranus 62789-12-02 04:05 G 24654606.56 24654606.67 24654606.79 0.0138 0.0067

Uranus 62790-02-28 07:26 G 24654694.72 24654694.81 24654694.92 0.0138 0.0088

Uranus 62790-05-27 11:02 G 24654782.88 24654782.96 24654783.05 0.0138 0.0107

Venus 62790-08-22 14:53 G 24654870.01 24654870.12 24654870.22 0.3682 0.0196

Uranus 62790-08-23 14:24 G 24654871.06 24654871.10 24654871.16 0.0138 0.0127

Saturn 62790-12-19 07:41 G 24654988.69 24654988.82 24654988.96 0.0280 0.0166

Jupiter 62790-12-23 01:26 G 24654992.39 24654992.56 24654992.73 0.0488 0.0116

Saturn 62791-03-18 02:53 G 24655077.45 24655077.62 24655077.79 0.0279 0.0015

Earth 62791-05-12 08:38 G 24655132.75 24655132.86 24655132.97 0.2684 0.0512

Moon 62791-05-12 09:36 G 24655132.78 24655132.90 24655133.01 0.2683 0.0591 *

Saturn 62791-06-14 22:05 G 24655166.30 24655166.42 24655166.55 0.0279 0.0197

Mars 62793-08-09 00:14 G 24655952.42 24655952.51 24655952.59 0.1905 0.1506

Earth 62793-11-11 06:43 G 24656046.64 24656046.78 24656046.93 0.2648 0.0520

Moon 62793-11-11 08:10 G 24656046.69 24656046.84 24656046.98 0.2645 0.0452 *

Venus 62796-03-07 06:58 G 24656893.72 24656893.79 24656893.85 0.3681 0.2850

Jupiter 62796-08-28 22:05 G 24657068.29 24657068.42 24657068.55 0.0541 0.0056

Mars 62798-05-01 15:36 G 24657679.04 24657679.15 24657679.26 0.1619 0.0895

Neptune 62799-11-19 22:34 G 24658246.41 24658246.44 24658246.48 0.0088 0.0085

Neptune 62800-02-16 01:12 G 24658334.48 24658334.55 24658334.66 0.0088 0.0076

Neptune 62800-05-14 04:05 G 24658422.57 24658422.67 24658422.81 0.0088 0.0066

Neptune 62800-08-10 07:12 G 24658510.67 24658510.80 24658510.95 0.0088 0.0056

Neptune 62800-11-06 10:19 G 24658598.78 24658598.93 24658599.09 0.0088 0.0046

Neptune 62801-02-02 13:12 G 24658686.90 24658687.05 24658687.23 0.0088 0.0036

Neptune 62801-05-01 16:19 G 24658775.01 24658775.18 24658775.36 0.0088 0.0026

Neptune 62801-07-28 19:26 G 24658863.13 24658863.31 24658863.49 0.0088 0.0016

Neptune 62801-10-24 22:19 G 24658951.25 24658951.43 24658951.62 0.0088 0.0006

Neptune 62802-01-21 01:26 G 24659039.38 24659039.56 24659039.75 0.0088 0.0005

Neptune 62802-04-19 04:19 G 24659127.51 24659127.68 24659127.87 0.0088 0.0015

Neptune 62802-07-16 07:26 G 24659215.64 24659215.81 24659215.99 0.0088 0.0025

Jupiter 62802-10-11 01:12 G 24659302.38 24659302.55 24659302.72 0.0487 0.0068

Neptune 62802-10-12 10:34 G 24659303.78 24659303.94 24659304.11 0.0088 0.0035

Neptune 62803-01-08 13:41 G 24659391.92 24659392.07 24659392.23 0.0088 0.0045

Neptune 62803-04-06 16:34 G 24659480.06 24659480.19 24659480.34 0.0088 0.0056

Neptune 62803-07-03 19:41 G 24659568.21 24659568.32 24659568.45 0.0088 0.0066

Neptune 62803-09-29 22:48 G 24659656.37 24659656.45 24659656.55 0.0088 0.0077

Neptune 62803-12-27 01:41 G 24659744.56 24659744.57 24659744.62 0.0088 0.0087

Earth 62804-05-14 03:22 G 24659883.56 24659883.64 24659883.73 0.2682 0.1695

Moon 62804-05-14 03:50 G 24659883.57 24659883.66 24659883.74 0.2676 0.1770 *

Saturn 62806-01-17 05:17 G 24660496.65 24660496.72 24660496.79 0.0279 0.0240

Saturn 62806-04-15 18:14 G 24660585.13 24660585.26 24660585.39 0.0280 0.0091

Saturn 62806-07-13 06:58 G 24660673.65 24660673.79 24660673.93 0.0280 0.0057

Saturn 62806-10-09 19:26 G 24660762.22 24660762.31 24660762.40 0.0280 0.0202

Earth 62806-11-14 10:05 G 24660797.80 24660797.92 24660798.05 0.2649 0.1430

Moon 62806-11-14 10:34 G 24660797.82 24660797.94 24660798.07 0.2643 0.1565 *

Jupiter 62808-06-17 00:58 G 24661378.42 24661378.54 24661378.66 0.0541 0.0248

Jupiter 62808-09-14 11:17 G 24661467.94 24661467.97 24661468.02 0.0539 0.0510

Mars 62809-08-27 11:46 G 24661814.97 24661814.99 24661815.00 0.1623 0.1604

Earth 62811-05-07 23:46 G 24662433.40 24662433.49 24662433.57 0.2686 0.1710

Moon 62811-05-08 00:00 G 24662433.41 24662433.50 24662433.58 0.2692 0.1756 *

Jupiter 62814-07-30 00:14 G 24663612.37 24663612.51 24663612.66 0.0487 0.0257

Jupiter 62814-10-28 00:00 G 24663702.49 24663702.50 24663702.52 0.0489 0.0486

Mars 62819-01-17 21:07 G 24665245.27 24665245.38 24665245.49 0.1622 0.0825

Jupiter 62820-04-05 04:19 G 24665688.60 24665688.68 24665688.75 0.0542 0.0433

Saturn 62820-05-07 08:10 G 24665720.73 24665720.84 24665720.95 0.0280 0.0211

Jupiter 62820-07-03 15:07 G 24665778.03 24665778.13 24665778.23 0.0540 0.0335

Saturn 62820-08-04 03:07 G 24665809.46 24665809.63 24665809.80 0.0279 0.0033

Saturn 62820-10-31 22:19 G 24665898.29 24665898.43 24665898.58 0.0279 0.0149

Mars 62823-09-17 23:02 G 24666949.32 24666949.46 24666949.60 0.1903 0.0332

Earth 62824-05-09 18:43 G 24667184.17 24667184.28 24667184.39 0.2685 0.0471

Moon 62824-05-09 19:26 G 24667184.20 24667184.31 24667184.43 0.2687 0.0337 *

Pluto 62825-05-28 07:26 G 24667567.80 24667567.81 24667567.85 0.0078 0.0077

Pluto 62825-08-24 09:22 G 24667655.79 24667655.89 24667656.03 0.0078 0.0056

Pluto 62825-11-20 11:31 G 24667743.84 24667743.98 24667744.15 0.0078 0.0035

Pluto 62826-02-16 13:41 G 24667831.90 24667832.07 24667832.25 0.0078 0.0014

Pluto 62826-05-15 15:50 G 24667919.99 24667920.16 24667920.33 0.0078 0.0007

Jupiter 62826-05-18 00:14 G 24667922.44 24667922.51 24667922.59 0.0487 0.0433

Pluto 62826-08-11 17:31 G 24668008.08 24668008.23 24668008.40 0.0077 0.0029

Jupiter 62826-08-15 23:31 G 24668012.35 24668012.48 24668012.62 0.0488 0.0299

Pluto 62826-11-07 19:26 G 24668096.19 24668096.31 24668096.46 0.0077 0.0050

Earth 62826-11-09 10:05 G 24668097.83 24668097.92 24668098.01 0.2647 0.2044

Moon 62826-11-09 11:17 G 24668097.87 24668097.97 24668098.07 0.2647 0.1880 *

Pluto 62827-02-03 21:22 G 24668184.34 24668184.39 24668184.48 0.0077 0.0070

Uranus 62828-01-24 16:19 G 24668539.11 24668539.18 24668539.24 0.0141 0.0131

Uranus 62828-04-21 23:02 G 24668627.35 24668627.46 24668627.59 0.0141 0.0103

Mars 62828-06-09 06:29 G 24668675.64 24668675.77 24668675.90 0.1620 0.0035

Uranus 62828-07-19 06:00 G 24668715.60 24668715.75 24668715.91 0.0141 0.0074

Uranus 62828-10-15 13:12 G 24668803.88 24668804.05 24668804.22 0.0141 0.0045

Uranus 62829-01-11 20:10 G 24668892.16 24668892.34 24668892.52 0.0141 0.0017

Uranus 62829-04-10 03:22 G 24668980.46 24668980.64 24668980.82 0.0141 0.0013

Uranus 62829-07-07 10:19 G 24669068.76 24669068.93 24669069.11 0.0141 0.0042

Uranus 62829-10-03 17:31 G 24669157.08 24669157.23 24669157.39 0.0141 0.0071

Uranus 62829-12-31 00:43 G 24669245.41 24669245.53 24669245.66 0.0141 0.0100

Uranus 62830-03-29 07:41 G 24669333.77 24669333.82 24669333.91 0.0141 0.0130

Jupiter 62832-04-21 18:29 G 24670088.14 24670088.27 24670088.40 0.0540 0.0154

Mars 62833-02-07 00:14 G 24670379.41 24670379.51 24670379.61 0.1905 0.1342

Saturn 62835-09-02 18:58 G 24671317.18 24671317.29 24671317.42 0.0280 0.0145

Saturn 62835-11-30 07:55 G 24671405.69 24671405.83 24671405.97 0.0280 0.0005

Saturn 62836-02-26 20:24 G 24671494.24 24671494.35 24671494.47 0.0280 0.0151

Earth 62837-05-12 13:41 G 24671934.96 24671935.07 24671935.18 0.2683 0.0738

Moon 62837-05-12 14:24 G 24671934.99 24671935.10 24671935.21 0.2682 0.0816 *

Mars 62837-10-30 15:50 G 24672106.04 24672106.16 24672106.27 0.1619 0.0764

Jupiter 62838-06-03 23:17 G 24672322.30 24672322.47 24672322.64 0.0488 0.0114

Earth 62839-11-12 12:58 G 24672848.89 24672849.04 24672849.18 0.2648 0.0180

Moon 62839-11-12 14:10 G 24672848.94 24672849.09 24672849.24 0.2645 0.0011 *

Venus 62841-09-12 20:10 G 24673519.25 24673519.34 24673519.44 0.3683 0.1514

Venus 62843-03-30 16:34 G 24674083.08 24674083.19 24674083.30 0.3689 0.2329

Jupiter 62844-02-08 21:22 G 24674398.25 24674398.39 24674398.52 0.0540 0.0039

Mars 62847-03-23 00:58 G 24675536.51 24675536.54 24675536.56 0.1618 0.1573

Venus 62847-03-29 12:29 G 24675542.92 24675543.02 24675543.12 0.3682 0.1201

Saturn 62849-09-24 07:41 G 24676452.78 24676452.82 24676452.88 0.0280 0.0264

Saturn 62849-12-22 02:38 G 24676541.45 24676541.61 24676541.78 0.0279 0.0087

Saturn 62850-03-20 21:50 G 24676630.25 24676630.41 24676630.58 0.0279 0.0095

Jupiter 62850-03-22 23:17 G 24676632.30 24676632.47 24676632.64 0.0488 0.0064

Earth 62850-05-15 08:24 G 24676685.77 24676685.85 24676685.93 0.2682 0.1914

Moon 62850-05-15 08:38 G 24676685.78 24676685.86 24676685.94 0.2676 0.1921 *

Saturn 62850-06-17 17:17 G 24676719.22 24676719.22 24676719.24 0.0279 0.0278

Earth 62852-11-14 16:19 G 24677600.07 24677600.18 24677600.29 0.2649 0.1783

Moon 62852-11-14 16:34 G 24677600.08 24677600.19 24677600.30 0.2643 0.1728 *

Jupiter 62855-11-27 23:17 G 24678708.35 24678708.47 24678708.59 0.0541 0.0251

Jupiter 62856-02-25 09:36 G 24678797.86 24678797.90 24678797.95 0.0539 0.0506

Earth 62857-05-08 04:34 G 24679235.60 24679235.69 24679235.79 0.2685 0.1478

Moon 62857-05-08 05:02 G 24679235.61 24679235.71 24679235.81 0.2691 0.1375 *

Mars 62858-07-18 21:22 G 24679672.28 24679672.39 24679672.49 0.1622 0.0956

Jupiter 62862-01-08 23:02 G 24680942.31 24680942.46 24680942.61 0.0487 0.0244

Mars 62863-03-18 23:31 G 24681376.34 24681376.48 24681376.61 0.1903 0.0525

Saturn 62865-01-19 22:48 G 24682049.34 24682049.45 24682049.56 0.0280 0.0168

Saturn 62865-04-18 11:31 G 24682137.84 24682137.98 24682138.12 0.0280 0.0020

Saturn 62865-07-16 00:14 G 24682226.39 24682226.51 24682226.63 0.0280 0.0128

Saturn 62865-10-12 12:43 G 24682315.00 24682315.03 24682315.06 0.0281 0.0273

Jupiter 62867-09-16 01:55 G 24683018.50 24683018.58 24683018.65 0.0542 0.0447

Mars 62867-12-09 06:43 G 24683102.65 24683102.78 24683102.91 0.1620 0.0168

Jupiter 62867-12-14 12:43 G 24683107.93 24683108.03 24683108.14 0.0540 0.0322

Earth 62870-05-10 23:46 G 24683986.37 24683986.49 24683986.60 0.2684 0.0244

Moon 62870-05-11 00:29 G 24683986.41 24683986.52 24683986.64 0.2687 0.0218 *

Uranus 62871-07-25 00:14 G 24684426.47 24684426.51 24684426.57 0.0137 0.0126

Uranus 62871-10-21 04:05 G 24684514.58 24684514.67 24684514.76 0.0137 0.0105

Uranus 62872-01-17 07:41 G 24684602.71 24684602.82 24684602.93 0.0137 0.0085

Uranus 62872-04-14 11:17 G 24684690.85 24684690.97 24684691.09 0.0137 0.0065

Uranus 62872-07-11 14:38 G 24684778.99 24684779.11 24684779.25 0.0137 0.0045

Mars 62872-08-08 00:43 G 24684806.42 24684806.53 24684806.64 0.1905 0.1154

Uranus 62872-10-07 18:14 G 24684867.13 24684867.26 24684867.40 0.0137 0.0025

Earth 62872-11-09 16:05 G 24684900.06 24684900.17 24684900.28 0.2647 0.1710

Moon 62872-11-09 17:31 G 24684900.11 24684900.23 24684900.34 0.2646 0.1623 *

Uranus 62873-01-03 21:50 G 24684955.28 24684955.41 24684955.55 0.0137 0.0005

Uranus 62873-04-02 01:26 G 24685043.42 24685043.56 24685043.70 0.0137 0.0016

Uranus 62873-06-29 04:48 G 24685131.57 24685131.70 24685131.84 0.0137 0.0036

Uranus 62873-09-25 08:24 G 24685219.73 24685219.85 24685219.98 0.0137 0.0055

Jupiter 62873-10-27 22:19 G 24685252.35 24685252.43 24685252.51 0.0487 0.0432

Uranus 62873-12-22 11:46 G 24685307.88 24685307.99 24685308.11 0.0137 0.0075

Jupiter 62874-01-25 21:36 G 24685342.26 24685342.40 24685342.53 0.0488 0.0299

Uranus 62874-03-20 15:07 G 24685396.04 24685396.13 24685396.24 0.0138 0.0096

Uranus 62874-06-16 18:43 G 24685484.21 24685484.28 24685484.36 0.0138 0.0115

Uranus 62874-09-12 22:05 G 24685572.40 24685572.42 24685572.45 0.0138 0.0135

Mars 62877-04-30 15:50 G 24686533.04 24686533.16 24686533.28 0.1619 0.0632

Saturn 62879-05-11 03:36 G 24687273.50 24687273.65 24687273.81 0.0280 0.0126

Saturn 62879-08-07 22:48 G 24687362.28 24687362.45 24687362.62 0.0279 0.0053

Jupiter 62879-10-02 16:19 G 24687418.05 24687418.18 24687418.31 0.0540 0.0144

Saturn 62879-11-04 18:00 G 24687451.17 24687451.25 24687451.35 0.0279 0.0236

Neptune 62880-09-17 15:36 G 24687769.13 24687769.15 24687769.19 0.0089 0.0087

Neptune 62880-12-14 17:17 G 24687857.16 24687857.22 24687857.29 0.0089 0.0078

Neptune 62881-03-12 18:43 G 24687945.21 24687945.28 24687945.38 0.0089 0.0071

Neptune 62881-06-08 20:38 G 24688033.26 24688033.36 24688033.46 0.0089 0.0062

Neptune 62881-09-04 22:05 G 24688121.32 24688121.42 24688121.54 0.0089 0.0054

Neptune 62881-12-01 23:46 G 24688209.37 24688209.49 24688209.61 0.0089 0.0045

Neptune 62882-02-28 01:12 G 24688297.43 24688297.55 24688297.69 0.0089 0.0038

Neptune 62882-05-27 02:53 G 24688385.49 24688385.62 24688385.76 0.0089 0.0029

Neptune 62882-08-23 04:34 G 24688473.55 24688473.69 24688473.83 0.0089 0.0021

Neptune 62882-11-19 06:00 G 24688561.62 24688561.75 24688561.89 0.0089 0.0013

Neptune 62883-02-15 07:41 G 24688649.68 24688649.82 24688649.96 0.0089 0.0005

Earth 62883-05-13 18:43 G 24688737.17 24688737.28 24688737.38 0.2683 0.0965

Moon 62883-05-13 19:12 G 24688737.20 24688737.30 24688737.41 0.2680 0.1066 *

Neptune 62883-05-14 09:07 G 24688737.74 24688737.88 24688738.02 0.0089 0.0004

Neptune 62883-08-10 10:34 G 24688825.81 24688825.94 24688826.08 0.0089 0.0012

Neptune 62883-11-06 12:14 G 24688913.87 24688914.01 24688914.14 0.0089 0.0020

Neptune 62884-02-02 13:41 G 24689001.94 24689002.07 24689002.20 0.0089 0.0028

Neptune 62884-04-30 15:07 G 24689090.01 24689090.13 24689090.26 0.0089 0.0036

Neptune 62884-07-27 16:34 G 24689178.08 24689178.19 24689178.32 0.0089 0.0044

Neptune 62884-10-23 18:00 G 24689266.15 24689266.25 24689266.37 0.0089 0.0052

Neptune 62885-01-19 19:26 G 24689354.22 24689354.31 24689354.42 0.0089 0.0060

Neptune 62885-04-17 20:53 G 24689442.29 24689442.37 24689442.47 0.0089 0.0068

Neptune 62885-07-14 22:19 G 24689530.37 24689530.43 24689530.52 0.0089 0.0076

Neptune 62885-10-10 23:46 G 24689618.46 24689618.49 24689618.55 0.0089 0.0083

Earth 62885-11-12 18:58 G 24689651.15 24689651.29 24689651.44 0.2648 0.0187

Moon 62885-11-12 20:10 G 24689651.19 24689651.34 24689651.49 0.2644 0.0275 *

Jupiter 62885-11-13 21:07 G 24689652.21 24689652.38 24689652.55 0.0488 0.0114

Mars 62886-09-21 00:58 G 24689963.49 24689963.54 24689963.60 0.1618 0.1439

Moon 62890-05-06 14:24 G 24691287.05 24691287.10 24691287.14 0.2694 0.2470

Earth 62890-05-06 14:24 G 24691287.06 24691287.10 24691287.14 0.2687 0.2498 *

Jupiter 62891-07-21 19:26 G 24691728.18 24691728.31 24691728.45 0.0541 0.0043

Venus 62892-10-04 01:41 G 24692168.52 24692168.57 24692168.61 0.3683 0.3237

Venus 62894-04-20 12:29 G 24692731.91 24692732.02 24692732.14 0.3688 0.2159

Saturn 62894-06-08 23:46 G 24692781.41 24692781.49 24692781.58 0.0279 0.0219

Saturn 62894-09-05 12:43 G 24692869.89 24692870.03 24692870.17 0.0280 0.0070

Saturn 62894-12-03 01:26 G 24692958.42 24692958.56 24692958.69 0.0280 0.0078

Saturn 62895-03-01 13:55 G 24693047.00 24693047.08 24693047.16 0.0281 0.0223

Earth 62896-05-15 13:12 G 24693487.99 24693488.05 24693488.12 0.2682 0.2135

Moon 62896-05-15 13:41 G 24693488.00 24693488.07 24693488.13 0.2676 0.2172 *

Jupiter 62897-09-01 20:53 G 24693962.20 24693962.37 24693962.54 0.0488 0.0069

Mars 62898-01-16 21:22 G 24694099.30 24694099.39 24694099.49 0.1622 0.1084

Venus 62898-04-19 17:46 G 24694192.14 24694192.24 24694192.35 0.3682 0.0494

Earth 62898-11-15 22:34 G 24694402.35 24694402.44 24694402.52 0.2650 0.2147

Moon 62898-11-15 22:48 G 24694402.37 24694402.45 24694402.53 0.2643 0.2224 *

Mars 62902-09-17 23:31 G 24695803.35 24695803.48 24695803.62 0.1903 0.0700

Earth 62903-05-10 09:36 G 24696037.80 24696037.90 24696038.01 0.2685 0.1241

Moon 62903-05-10 10:19 G 24696037.82 24696037.93 24696038.03 0.2690 0.1248 *

Jupiter 62903-05-10 22:19 G 24696038.31 24696038.43 24696038.55 0.0541 0.0234

Jupiter 62903-08-08 08:53 G 24696127.84 24696127.87 24696127.90 0.0539 0.0522

Venus 62903-11-04 09:50 G 24696215.83 24696215.91 24696216.00 0.3681 0.2202

Mars 62907-06-10 06:43 G 24697529.66 24697529.78 24697529.91 0.1620 0.0302

Saturn 62908-09-28 03:22 G 24698005.51 24698005.64 24698005.77 0.0280 0.0180

Saturn 62908-12-25 22:19 G 24698094.26 24698094.43 24698094.61 0.0279 0.0007

Saturn 62909-03-24 17:31 G 24698183.11 24698183.23 24698183.37 0.0279 0.0181

Jupiter 62909-06-21 20:53 G 24698272.23 24698272.37 24698272.52 0.0487 0.0243

Mars 62912-02-08 01:12 G 24699233.43 24699233.55 24699233.67 0.1905 0.0952

Uranus 62912-02-14 23:46 G 24699240.41 24699240.49 24699240.59 0.0142 0.0121

Uranus 62912-05-13 06:58 G 24699328.65 24699328.79 24699328.92 0.0141 0.0093

Uranus 62912-08-09 13:41 G 24699416.92 24699417.07 24699417.24 0.0141 0.0064

Uranus 62912-11-05 20:53 G 24699505.19 24699505.37 24699505.54 0.0141 0.0036

Uranus 62913-02-02 03:50 G 24699593.48 24699593.66 24699593.84 0.0141 0.0007

Uranus 62913-05-01 11:02 G 24699681.78 24699681.96 24699682.14 0.0141 0.0022

Uranus 62913-07-28 18:00 G 24699770.09 24699770.25 24699770.43 0.0141 0.0052

Uranus 62913-10-25 00:58 G 24699858.40 24699858.54 24699858.70 0.0141 0.0081

Uranus 62914-01-21 08:24 G 24699946.74 24699946.85 24699946.97 0.0141 0.0110

Uranus 62914-04-19 15:50 G 24700035.13 24700035.16 24700035.18 0.0141 0.0139

Jupiter 62915-02-27 00:00 G 24700348.43 24700348.50 24700348.58 0.0541 0.0450

Jupiter 62915-05-27 11:02 G 24700437.85 24700437.96 24700438.07 0.0540 0.0319

Earth 62916-05-12 04:48 G 24700788.58 24700788.70 24700788.81 0.2684 0.0079

Moon 62916-05-12 05:31 G 24700788.61 24700788.73 24700788.84 0.2686 0.0145 *

Mars 62916-10-30 16:05 G 24700960.05 24700960.17 24700960.30 0.1619 0.0495

Earth 62918-11-11 22:05 G 24701702.29 24701702.42 24701702.54 0.2647 0.1367

Moon 62918-11-11 23:31 G 24701702.35 24701702.48 24701702.61 0.2646 0.1152 *

Jupiter 62921-04-09 20:53 G 24702582.29 24702582.37 24702582.46 0.0487 0.0421

Jupiter 62921-07-08 20:10 G 24702672.21 24702672.34 24702672.47 0.0488 0.0311

Saturn 62923-10-28 03:07 G 24703513.57 24703513.63 24703513.71 0.0279 0.0244

Saturn 62924-01-24 16:19 G 24703602.04 24703602.18 24703602.31 0.0280 0.0094

Saturn 62924-04-22 05:02 G 24703690.57 24703690.71 24703690.85 0.0280 0.0054

Saturn 62924-07-19 17:31 G 24703779.14 24703779.23 24703779.33 0.0281 0.0200

Mars 62926-03-23 01:12 G 24704390.47 24704390.55 24704390.63 0.1618 0.1302

Jupiter 62927-03-15 13:55 G 24704747.95 24704748.08 24704748.21 0.0540 0.0130

Earth 62929-05-14 23:31 G 24705539.38 24705539.48 24705539.58 0.2683 0.1185

Moon 62929-05-15 00:14 G 24705539.40 24705539.51 24705539.61 0.2678 0.1197 *

Earth 62931-11-15 01:12 G 24706453.40 24706453.55 24706453.69 0.2648 0.0536

Moon 62931-11-15 01:55 G 24706453.44 24706453.58 24706453.73 0.2643 0.0589 *

Jupiter 62933-04-26 18:58 G 24706982.12 24706982.29 24706982.46 0.0488 0.0113

Moon 62936-05-07 19:26 G 24708089.25 24708089.31 24708089.37 0.2693 0.2308

Earth 62936-05-07 19:26 G 24708089.25 24708089.31 24708089.37 0.2686 0.2258 *

Mars 62937-07-18 21:36 G 24708526.31 24708526.40 24708526.48 0.1622 0.1210

Saturn 62938-02-15 05:17 G 24708737.61 24708737.72 24708737.83 0.0280 0.0212

Saturn 62938-05-15 00:00 G 24708826.33 24708826.50 24708826.67 0.0279 0.0035

Saturn 62938-08-11 19:12 G 24708915.16 24708915.30 24708915.45 0.0279 0.0146

Jupiter 62939-01-01 17:17 G 24709058.09 24709058.22 24709058.36 0.0541 0.0054

Mars 62942-03-19 00:00 G 24710230.38 24710230.50 24710230.63 0.1903 0.0895

Earth 62942-05-17 18:14 G 24710290.21 24710290.26 24710290.31 0.2682 0.2350

Moon 62942-05-17 18:29 G 24710290.22 24710290.27 24710290.32 0.2675 0.2374 *

Moon 62944-11-17 04:48 G 24711204.65 24711204.70 24711204.75 0.2643 0.2469

Earth 62944-11-17 04:34 G 24711204.65 24711204.69 24711204.74 0.2650 0.2511 *

Jupiter 62945-02-12 18:43 G 24711292.11 24711292.28 24711292.45 0.0487 0.0070

Mars 62946-12-09 06:58 G 24711956.66 24711956.79 24711956.92 0.1620 0.0427

Earth 62949-05-10 14:38 G 24712840.00 24712840.11 24712840.22 0.2685 0.1009

Moon 62949-05-10 15:22 G 24712840.03 24712840.14 24712840.25 0.2690 0.0885 *

Venus 62949-05-11 23:17 G 24712841.38 24712841.47 24712841.55 0.3683 0.2193

Jupiter 62950-10-20 20:24 G 24713368.23 24713368.35 24713368.47 0.0541 0.0240

Venus 62950-11-26 13:26 G 24713404.92 24713405.06 24713405.21 0.3689 0.0162

Jupiter 62951-01-18 06:58 G 24713457.76 24713457.79 24713457.83 0.0539 0.0518

Mars 62951-08-09 01:12 G 24713660.42 24713660.55 24713660.67 0.1905 0.0802

Moon 62951-11-10 02:38 G 24713753.61 24713753.61 24713753.62 0.2648 0.2643

Saturn 62953-06-12 17:31 G 24714334.11 24714334.23 24714334.35 0.0280 0.0143

Saturn 62953-09-09 06:14 G 24714422.62 24714422.76 24714422.90 0.0280 0.0008

Saturn 62953-12-06 18:58 G 24714511.17 24714511.29 24714511.41 0.0280 0.0152

Venus 62954-11-25 15:22 G 24714865.04 24714865.14 24714865.25 0.3682 0.0538

Uranus 62955-08-15 08:10 G 24715127.77 24715127.84 24715127.91 0.0137 0.0117

Uranus 62955-11-11 11:46 G 24715215.90 24715215.99 24715216.09 0.0137 0.0097

Uranus 62956-02-07 15:22 G 24715304.03 24715304.14 24715304.26 0.0137 0.0076

Mars 62956-04-30 16:19 G 24715387.05 24715387.18 24715387.31 0.1619 0.0363

Uranus 62956-05-05 18:58 G 24715392.17 24715392.29 24715392.42 0.0137 0.0056

Uranus 62956-08-01 22:34 G 24715480.31 24715480.44 24715480.57 0.0137 0.0036

Uranus 62956-10-29 02:10 G 24715568.45 24715568.59 24715568.73 0.0137 0.0016

Jupiter 62956-12-01 18:29 G 24715602.12 24715602.27 24715602.42 0.0487 0.0250

Uranus 62957-01-25 05:31 G 24715656.60 24715656.73 24715656.87 0.0137 0.0006

Uranus 62957-04-23 09:07 G 24715744.75 24715744.88 24715745.02 0.0137 0.0024

Uranus 62957-07-20 12:29 G 24715832.90 24715833.02 24715833.16 0.0137 0.0044

Uranus 62957-10-16 16:05 G 24715921.05 24715921.17 24715921.29 0.0137 0.0064

Uranus 62958-01-12 19:26 G 24716009.21 24716009.31 24716009.42 0.0137 0.0084

Uranus 62958-04-10 22:48 G 24716097.37 24716097.45 24716097.55 0.0138 0.0104

Uranus 62958-07-08 02:24 G 24716185.55 24716185.60 24716185.66 0.0138 0.0123

Venus 62960-06-10 07:26 G 24716888.76 24716888.81 24716888.86 0.3681 0.3201

Earth 62962-05-13 09:36 G 24717590.79 24717590.90 24717591.02 0.2684 0.0234

Moon 62962-05-13 10:34 G 24717590.82 24717590.94 24717591.05 0.2684 0.0247 *

Jupiter 62962-08-08 23:02 G 24717678.39 24717678.46 24717678.54 0.0541 0.0436

Jupiter 62962-11-06 10:05 G 24717767.82 24717767.92 24717768.03 0.0540 0.0333

Neptune 62964-08-16 19:55 G 24718417.29 24718417.33 24718417.40 0.0088 0.0083

Earth 62964-11-12 04:05 G 24718504.53 24718504.67 24718504.80 0.2647 0.1031

Moon 62964-11-12 05:31 G 24718504.59 24718504.73 24718504.86 0.2646 0.0976 *

Neptune 62964-11-12 23:02 G 24718505.37 24718505.46 24718505.57 0.0088 0.0073

Neptune 62965-02-09 02:10 G 24718593.47 24718593.59 24718593.71 0.0088 0.0063

Neptune 62965-05-08 05:02 G 24718681.57 24718681.71 24718681.86 0.0088 0.0053

Neptune 62965-08-04 07:41 G 24718769.68 24718769.82 24718769.99 0.0088 0.0044

Mars 62965-09-21 01:26 G 24718817.47 24718817.56 24718817.65 0.1618 0.1166

Neptune 62965-10-31 10:48 G 24718857.79 24718857.95 24718858.13 0.0088 0.0034

Neptune 62966-01-27 13:41 G 24718945.91 24718946.07 24718946.26 0.0088 0.0024

Neptune 62966-04-25 16:48 G 24719034.03 24719034.20 24719034.39 0.0088 0.0014

Neptune 62966-07-22 19:55 G 24719122.15 24719122.33 24719122.52 0.0088 0.0004

Neptune 62966-10-18 23:02 G 24719210.28 24719210.46 24719210.64 0.0088 0.0007

Neptune 62967-01-15 01:55 G 24719298.41 24719298.58 24719298.77 0.0088 0.0017

Neptune 62967-04-13 05:02 G 24719386.54 24719386.71 24719386.89 0.0088 0.0027

Saturn 62967-07-05 04:34 G 24719469.65 24719469.69 24719469.74 0.0280 0.0268

Neptune 62967-07-10 08:10 G 24719474.68 24719474.84 24719475.01 0.0088 0.0037

Saturn 62967-10-01 23:31 G 24719558.32 24719558.48 24719558.64 0.0279 0.0091

Neptune 62967-10-06 10:48 G 24719562.82 24719562.95 24719563.12 0.0088 0.0048

Saturn 62967-12-29 18:29 G 24719647.11 24719647.27 24719647.44 0.0279 0.0089

Neptune 62968-01-02 13:55 G 24719650.96 24719651.08 24719651.23 0.0088 0.0058

Saturn 62968-03-27 13:55 G 24719736.05 24719736.08 24719736.12 0.0278 0.0271

Neptune 62968-03-30 17:17 G 24719739.11 24719739.22 24719739.34 0.0088 0.0068

Neptune 62968-06-26 20:38 G 24719827.28 24719827.36 24719827.44 0.0088 0.0079

Jupiter 62968-09-19 18:43 G 24719912.20 24719912.28 24719912.36 0.0487 0.0423

Jupiter 62968-12-18 18:00 G 24720002.11 24720002.25 24720002.38 0.0488 0.0310

Jupiter 62974-08-25 12:14 G 24722077.88 24722078.01 24722078.14 0.0540 0.0127

Earth 62975-05-16 04:34 G 24722341.59 24722341.69 24722341.78 0.2683 0.1406

Moon 62975-05-16 05:02 G 24722341.62 24722341.71 24722341.81 0.2678 0.1530 *

Mars 62977-01-16 21:50 G 24722953.33 24722953.41 24722953.48 0.1622 0.1342

Earth 62977-11-15 07:12 G 24723255.66 24723255.80 24723255.94 0.2649 0.0884

Moon 62977-11-15 07:55 G 24723255.69 24723255.83 24723255.97 0.2642 0.1006 *

Jupiter 62980-10-06 17:31 G 24724312.06 24724312.23 24724312.39 0.0488 0.0123

Mars 62981-09-17 00:14 G 24724657.39 24724657.51 24724657.63 0.1903 0.1072

Moon 62982-05-09 00:43 G 24724891.45 24724891.53 24724891.60 0.2693 0.2008

Earth 62982-05-09 00:29 G 24724891.45 24724891.52 24724891.60 0.2686 0.2024 *

Saturn 62982-10-30 20:53 G 24725066.26 24725066.37 24725066.49 0.0280 0.0168

Saturn 62983-01-27 09:50 G 24725154.77 24725154.91 24725155.05 0.0280 0.0019

Saturn 62983-04-25 22:34 G 24725243.32 24725243.44 24725243.56 0.0281 0.0128

Saturn 62983-07-23 10:48 G 24725331.93 24725331.95 24725331.99 0.0281 0.0274

Pluto 62985-09-20 04:34 G 24726121.69 24726121.69 24726121.73 0.0065 0.0065

Pluto 62985-12-17 05:31 G 24726209.65 24726209.73 24726209.81 0.0066 0.0054

Pluto 62986-03-15 05:46 G 24726297.65 24726297.74 24726297.87 0.0066 0.0044

Mars 62986-06-09 07:12 G 24726383.68 24726383.80 24726383.92 0.1620 0.0561

Pluto 62986-06-11 06:43 G 24726385.66 24726385.78 24726385.91 0.0066 0.0033

Jupiter 62986-06-13 15:07 G 24726387.99 24726388.13 24726388.26 0.0541 0.0069

Pluto 62986-09-07 07:26 G 24726473.68 24726473.81 24726473.95 0.0066 0.0022

Pluto 62986-12-04 08:10 G 24726561.70 24726561.84 24726561.98 0.0066 0.0011

Pluto 62987-03-02 08:53 G 24726649.72 24726649.87 24726650.01 0.0066 0.0001

Pluto 62987-05-29 09:36 G 24726737.75 24726737.90 24726738.04 0.0066 0.0011

Pluto 62987-08-25 10:05 G 24726825.79 24726825.92 24726826.06 0.0066 0.0021

Pluto 62987-11-21 10:34 G 24726913.82 24726913.94 24726914.08 0.0066 0.0032

Pluto 62988-02-17 11:02 G 24727001.87 24727001.96 24727002.09 0.0066 0.0044

Pluto 62988-05-15 11:46 G 24727089.92 24727089.99 24727090.09 0.0067 0.0055

Moon 62988-05-17 23:02 G 24727092.43 24727092.46 24727092.50 0.2675 0.2521

Earth 62988-05-17 23:02 G 24727092.44 24727092.46 24727092.49 0.2682 0.2571 *

Pluto 62988-08-11 12:14 G 24727178.01 24727178.01 24727178.06 0.0067 0.0066

Mars 62991-02-07 01:41 G 24728087.43 24728087.57 24728087.70 0.1905 0.0595

Jupiter 62992-07-25 16:19 G 24728622.01 24728622.18 24728622.35 0.0487 0.0073

Earth 62995-05-11 19:41 G 24729642.21 24729642.32 24729642.43 0.2685 0.0775

Moon 62995-05-11 20:24 G 24729642.24 24729642.35 24729642.46 0.2690 0.0753 *

Mars 62995-10-30 16:19 G 24729814.05 24729814.18 24729814.31 0.1619 0.0236

Uranus 62995-12-09 00:43 G 24729853.51 24729853.53 24729853.58 0.0142 0.0139

Uranus 62996-03-06 07:41 G 24729941.72 24729941.82 24729941.94 0.0142 0.0111

Uranus 62996-06-02 14:53 G 24730029.97 24730030.12 24730030.27 0.0141 0.0082

Uranus 62996-08-29 21:36 G 24730118.24 24730118.40 24730118.58 0.0141 0.0054

Uranus 62996-11-26 04:48 G 24730206.52 24730206.70 24730206.88 0.0141 0.0025

Saturn 62997-02-18 01:41 G 24730290.42 24730290.57 24730290.72 0.0280 0.0120

Uranus 62997-02-22 11:46 G 24730294.81 24730294.99 24730295.18 0.0141 0.0006

Saturn 62997-05-17 20:38 G 24730379.19 24730379.36 24730379.53 0.0279 0.0059

Uranus 62997-05-21 18:58 G 24730383.11 24730383.29 24730383.47 0.0141 0.0033

Saturn 62997-08-14 15:50 G 24730468.08 24730468.16 24730468.25 0.0279 0.0241

Uranus 62997-08-18 02:10 G 24730471.42 24730471.59 24730471.75 0.0141 0.0062

Earth 62997-11-10 07:26 G 24730555.77 24730555.81 24730555.85 0.2646 0.2519

Moon 62997-11-10 08:53 G 24730555.82 24730555.87 24730555.92 0.2648 0.2474 *

Uranus 62997-11-14 08:53 G 24730559.75 24730559.87 24730560.02 0.0141 0.0092

Uranus 62998-02-10 16:19 G 24730648.09 24730648.18 24730648.28 0.0141 0.0121

Jupiter 62998-04-01 18:00 G 24730698.14 24730698.25 24730698.37 0.0542 0.0256

Jupiter 62998-06-30 04:48 G 24730787.66 24730787.70 24730787.74 0.0540 0.0505

64TH MILLENNIUM CE

This is a list of transits of Mercury in the 64th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**63004-05-14 16:19**	**G**	**24732932.03**	**24732932.18**	**24732932.32**	**0.0487**	**0.0252**	
Mars	**63005-03-23 01:26**	**G**	**24733244.46**	**24733244.56**	**24733244.67**	**0.1618**	**0.1035**	
Venus	**63005-12-17 20:53**	**G**	**24733514.27**	**24733514.37**	**24733514.47**	**0.3682**	**0.1161**	
Venus	**63007-07-04 14:24**	**G**	**24734077.99**	**24734078.10**	**24734078.20**	**0.3689**	**0.2509**	
Earth	**63008-05-14 14:38**	**G**	**24734393.00**	**24734393.11**	**24734393.22**	**0.2684**	**0.0440**	
Moon	**63008-05-14 15:22**	**G**	**24734393.03**	**24734393.14**	**24734393.25**	**0.2682**	**0.0587**	*
Jupiter	**63010-01-19 21:07**	**G**	**24735008.31**	**24735008.38**	**24735008.46**	**0.0542**	**0.0443**	
Jupiter	**63010-04-19 08:10**	**G**	**24735097.74**	**24735097.84**	**24735097.95**	**0.0540**	**0.0328**	
Earth	**63010-11-14 10:05**	**G**	**24735306.78**	**24735306.92**	**24735307.06**	**0.2647**	**0.0685**	
Moon	**63010-11-14 11:17**	**G**	**24735306.83**	**24735306.97**	**24735307.12**	**0.2645**	**0.0472**	*
Venus	**63011-07-03 12:58**	**G**	**24735537.95**	**24735538.04**	**24735538.14**	**0.3682**	**0.1546**	
Saturn	**63012-03-19 22:05**	**G**	**24735798.34**	**24735798.42**	**24735798.52**	**0.0279**	**0.0216**	
Saturn	**63012-06-16 11:02**	**G**	**24735886.83**	**24735886.96**	**24735887.10**	**0.0280**	**0.0068**	
Saturn	**63012-09-12 23:46**	**G**	**24735975.36**	**24735975.49**	**24735975.63**	**0.0280**	**0.0081**	
Saturn	**63012-12-10 12:29**	**G**	**24736063.94**	**24736064.02**	**24736064.10**	**0.0281**	**0.0226**	
Jupiter	**63016-03-02 16:05**	**G**	**24737242.10**	**24737242.17**	**24737242.25**	**0.0487**	**0.0430**	
Jupiter	**63016-05-31 15:07**	**G**	**24737332.00**	**24737332.13**	**24737332.27**	**0.0488**	**0.0301**	
Mars	**63016-07-18 21:50**	**G**	**24737380.36**	**24737380.41**	**24737380.46**	**0.1622**	**0.1467**	
Mars	**63021-03-19 00:43**	**G**	**24739084.42**	**24739084.53**	**24739084.63**	**0.1903**	**0.1267**	
Earth	**63021-05-17 09:22**	**G**	**24739143.80**	**24739143.89**	**24739143.98**	**0.2683**	**0.1627**	
Moon	**63021-05-17 10:05**	**G**	**24739143.82**	**24739143.92**	**24739144.01**	**0.2678**	**0.1620**	*
Jupiter	**63022-02-05 11:17**	**G**	**24739407.84**	**24739407.97**	**24739408.10**	**0.0540**	**0.0141**	

Earth 63023-11-17 13:26 G 24740057.93 24740058.06 24740058.19 0.2649 0.1240

Moon 63023-11-17 13:55 G 24740057.95 24740058.08 24740058.22 0.2643 0.1233 *

Mars 63025-12-09 07:12 G 24740810.69 24740810.80 24740810.92 0.1620 0.0691

Saturn 63026-07-09 00:43 G 24741022.41 24741022.53 24741022.67 0.0280 0.0178

Saturn 63026-10-05 19:55 G 24741111.16 24741111.33 24741111.50 0.0279 0.0004

Saturn 63027-01-02 14:53 G 24741200.00 24741200.12 24741200.26 0.0279 0.0182

Jupiter 63028-03-19 15:07 G 24741641.96 24741642.13 24741642.30 0.0488 0.0120

Earth 63028-05-10 05:31 G 24741693.65 24741693.73 24741693.82 0.2686 0.1785

Moon 63028-05-10 05:46 G 24741693.66 24741693.74 24741693.83 0.2692 0.1740 *

Mars 63030-08-09 01:55 G 24742514.44 24742514.58 24742514.72 0.1905 0.0409

Jupiter 63033-11-24 13:26 G 24743717.92 24743718.06 24743718.19 0.0540 0.0068

Mars 63035-05-01 16:34 G 24744241.06 24744241.19 24744241.32 0.1619 0.0102

Uranus 63039-06-09 12:14 G 24745740.97 24745741.01 24745741.06 0.0136 0.0129

Uranus 63039-09-05 15:50 G 24745829.08 24745829.16 24745829.25 0.0137 0.0108

Uranus 63039-12-02 19:26 G 24745917.21 24745917.31 24745917.42 0.0137 0.0088

Jupiter 63040-01-06 14:53 G 24745951.95 24745952.12 24745952.29 0.0488 0.0064

Uranus 63040-02-28 23:17 G 24746005.35 24746005.47 24746005.59 0.0137 0.0068

Uranus 63040-05-27 02:38 G 24746093.49 24746093.61 24746093.74 0.0137 0.0048

Uranus 63040-08-23 06:14 G 24746181.63 24746181.76 24746181.90 0.0137 0.0028

Uranus 63040-11-19 09:50 G 24746269.77 24746269.91 24746270.05 0.0137 0.0008

Uranus 63041-02-15 13:26 G 24746357.92 24746358.06 24746358.20 0.0137 0.0012

Earth 63041-05-13 00:43 G 24746444.42 24746444.53 24746444.64 0.2685 0.0547

Moon 63041-05-13 01:26 G 24746444.44 24746444.56 24746444.67 0.2689 0.0451 *

Uranus 63041-05-14 16:48 G 24746446.07 24746446.20 24746446.34 0.0137 0.0032

Saturn 63041-08-07 01:26 G 24746530.49 24746530.56 24746530.63 0.0280 0.0244

Uranus 63041-08-10 20:10 G 24746534.22 24746534.34 24746534.48 0.0137 0.0053

Saturn 63041-11-03 14:24 G 24746618.97 24746619.10 24746619.23 0.0280 0.0094

Uranus 63041-11-06 23:46 G 24746622.38 24746622.49 24746622.61 0.0137 0.0072

Saturn 63042-01-31 03:07 G 24746707.50 24746707.63 24746707.77 0.0280 0.0055

Uranus 63042-02-03 03:22 G 24746710.54 24746710.64 24746710.74 0.0137 0.0092

Saturn 63042-04-29 15:50 G 24746796.06 24746796.16 24746796.26 0.0281 0.0200

Uranus 63042-05-02 06:29 G 24746798.71 24746798.77 24746798.86 0.0137 0.0112

Uranus 63042-07-29 10:05 G 24746886.89 24746886.92 24746886.96 0.0138 0.0131

Earth 63043-11-12 13:26 G 24747357.98 24747358.06 24747358.14 0.2646 0.2191

Moon 63043-11-12 14:53 G 24747358.02 24747358.12 24747358.21 0.2648 0.1975 *

Mars 63044-09-21 01:41 G 24747671.46 24747671.57 24747671.68 0.1618 0.0899

Neptune 63045-06-16 14:24 G 24747940.07 24747940.10 24747940.15 0.0089 0.0085

Jupiter 63045-09-12 15:50 G 24748028.05 24748028.16 24748028.28 0.0541 0.0266

Neptune 63045-09-12 15:50 G 24748028.11 24748028.16 24748028.24 0.0089 0.0077 *

Neptune 63045-12-09 17:46 G 24748116.15 24748116.24 24748116.33 0.0089 0.0069

Jupiter 63045-12-11 02:38 G 24748117.56 24748117.61 24748117.66 0.0539 0.0494

Neptune 63046-03-07 19:12 G 24748204.21 24748204.30 24748204.41 0.0089 0.0061

Neptune 63046-06-03 20:53 G 24748292.26 24748292.37 24748292.49 0.0089 0.0052

Neptune 63046-08-30 22:19 G 24748380.32 24748380.43 24748380.56 0.0089 0.0044

Neptune 63046-11-27 00:14 G 24748468.38 24748468.51 24748468.64 0.0089 0.0036

Neptune 63047-02-23 01:41 G 24748556.44 24748556.57 24748556.71 0.0089 0.0028

Neptune 63047-05-22 03:22 G 24748644.50 24748644.64 24748644.77 0.0089 0.0019

Neptune 63047-08-18 04:48 G 24748732.57 24748732.70 24748732.84 0.0089 0.0011

Neptune 63047-11-14 06:29 G 24748820.63 24748820.77 24748820.91 0.0089 0.0003

Neptune 63048-02-10 07:55 G 24748908.69 24748908.83 24748908.97 0.0089 0.0005

Neptune 63048-05-08 09:22 G 24748996.76 24748996.89 24748997.03 0.0089 0.0014

Neptune 63048-08-04 11:02 G 24749084.83 24749084.96 24749085.09 0.0089 0.0021

Neptune 63048-10-31 12:29 G 24749172.89 24749173.02 24749173.15 0.0089 0.0029

Neptune 63049-01-27 13:55 G 24749260.96 24749261.08 24749261.21 0.0089 0.0037

Neptune 63049-04-25 15:22 G 24749349.03 24749349.14 24749349.27 0.0089 0.0045

Neptune 63049-07-22 16:48 G 24749437.10 24749437.20 24749437.32 0.0089 0.0053

Neptune 63049-10-18 18:14 G 24749525.17 24749525.26 24749525.37 0.0089 0.0061

Neptune 63050-01-14 20:10 G 24749613.25 24749613.34 24749613.42 0.0089 0.0069

Neptune 63050-04-12 21:22 G 24749701.33 24749701.39 24749701.47 0.0089 0.0077

Neptune 63050-07-09 22:48 G 24749789.42 24749789.45 24749789.50 0.0089 0.0085

Jupiter 63051-10-25 13:55 G 24750261.94 24750262.08 24750262.23 0.0487 0.0255

Jupiter 63052-01-23 13:26 G 24750352.05 24750352.06 24750352.08 0.0488 0.0485

Earth 63054-05-15 19:41 G 24751195.21 24751195.32 24751195.43 0.2684 0.0668

Moon 63054-05-15 20:24 G 24751195.24 24751195.35 24751195.46 0.2681 0.0695 *

Saturn 63055-11-26 03:22 G 24751754.53 24751754.64 24751754.75 0.0280 0.0204

Mars 63056-01-17 21:50 G 24751807.40 24751807.41 24751807.44 0.1622 0.1594

Saturn 63056-02-22 22:05 G 24751843.26 24751843.42 24751843.60 0.0279 0.0028

Saturn 63056-05-21 17:17 G 24751932.08 24751932.22 24751932.37 0.0279 0.0154

Earth 63056-11-14 16:19 G 24752109.03 24752109.18 24752109.32 0.2648 0.0332

Moon 63056-11-14 17:31 G 24752109.08 24752109.23 24752109.37 0.2644 0.0324 *

Venus 63057-01-08 02:10 G 24752163.53 24752163.59 24752163.65 0.3683 0.2883

Jupiter 63057-07-01 18:43 G 24752338.22 24752338.28 24752338.36 0.0542 0.0459

Jupiter 63057-09-29 06:00 G 24752427.64 24752427.75 24752427.86 0.0540 0.0314

Venus 63058-07-25 10:34 G 24752726.82 24752726.94 24752727.06 0.3688 0.1945

Mars 63060-09-17 00:58 G 24753511.45 24753511.54 24753511.63 0.1903 0.1447

Venus 63062-07-24 18:29 G 24754187.16 24754187.27 24754187.37 0.3682 0.0169

Jupiter 63063-08-13 14:10 G 24754572.01 24754572.09 24754572.16 0.0486 0.0431

Jupiter 63063-11-11 12:58 G 24754661.91 24754662.04 24754662.18 0.0488 0.0298

Mars 63065-06-09 07:26 G 24755237.70 24755237.81 24755237.92 0.1620 0.0818

Earth 63067-05-18 14:24 G 24755946.02 24755946.10 24755946.18 0.2683 0.1847

Moon 63067-05-18 14:53 G 24755946.04 24755946.12 24755946.19 0.2677 0.1950 *

Venus 63068-02-07 10:34 G 24756210.86 24756210.94 24756211.01 0.3682 0.2550

Jupiter 63069-07-18 09:22 G 24756737.76 24756737.89 24756738.02 0.0541 0.0134

Earth 63069-11-17 19:26 G 24756860.20 24756860.31 24756860.43 0.2649 0.1601

Moon 63069-11-17 20:10 G 24756860.23 24756860.34 24756860.45 0.2643 0.1729 *

Mars 63070-02-07 01:55 G 24756941.44 24756941.58 24756941.73 0.1905 0.0251

Saturn 63071-03-23 15:50 G 24757351.04 24757351.16 24757351.29 0.0279 0.0141

Saturn 63071-06-20 04:48 G 24757439.56 24757439.70 24757439.84 0.0280 0.0008

Saturn 63071-09-16 17:17 G 24757528.11 24757528.22 24757528.34 0.0280 0.0154

Pluto 63073-09-21 14:10 G 24758264.03 24758264.09 24758264.18 0.0078 0.0070

Pluto 63073-12-18 16:05 G 24758352.05 24758352.17 24758352.32 0.0078 0.0049

Pluto 63074-03-16 18:14 G 24758440.11 24758440.26 24758440.43 0.0078 0.0028

Earth 63074-05-11 10:34 G 24758495.85 24758495.94 24758496.04 0.2686 0.1548

Moon 63074-05-11 11:02 G 24758495.87 24758495.96 24758496.05 0.2693 0.1545 *

Pluto 63074-06-12 20:24 G 24758528.18 24758528.35 24758528.53 0.0078 0.0007

Pluto 63074-09-08 22:19 G 24758616.27 24758616.43 24758616.61 0.0078 0.0015

Mars 63074-10-30 16:48 G 24758668.07 24758668.20 24758668.33 0.1619 0.0046

Pluto 63074-12-06 00:14 G 24758704.37 24758704.51 24758704.67 0.0077 0.0036

Pluto 63075-03-04 02:10 G 24758792.49 24758792.59 24758792.72 0.0077 0.0057

Pluto 63075-05-31 04:19 G 24758880.68 24758880.68 24758880.69 0.0077 0.0077

Jupiter 63075-08-30 12:29 G 24758971.86 24758972.02 24758972.19 0.0488 0.0113

Mars 63079-06-30 03:50 G 24760371.63 24760371.66 24760371.69 0.1907 0.1853

Uranus 63079-12-30 08:10 G 24760554.78 24760554.84 24760554.91 0.0142 0.0131

Uranus 63080-03-27 14:53 G 24760643.01 24760643.12 24760643.25 0.0142 0.0103

Uranus 63080-06-23 22:05 G 24760731.27 24760731.42 24760731.57 0.0142 0.0074

Uranus 63080-09-20 05:02 G 24760819.54 24760819.71 24760819.88 0.0141 0.0045

Uranus 63080-12-17 12:00 G 24760907.82 24760908.00 24760908.18 0.0141 0.0017

Uranus 63081-03-15 19:12 G 24760996.12 24760996.30 24760996.48 0.0141 0.0013

Jupiter 63081-05-06 12:29 G 24761047.88 24761048.02 24761048.15 0.0541 0.0057

Uranus 63081-06-12 02:10 G 24761084.42 24761084.59 24761084.77 0.0141 0.0041

Uranus 63081-09-08 09:22 G 24761172.73 24761172.89 24761173.05 0.0141 0.0071

Uranus 63081-12-05 16:19 G 24761261.06 24761261.18 24761261.32 0.0141 0.0100

Uranus 63082-03-03 23:31 G 24761349.42 24761349.48 24761349.56 0.0141 0.0129

Mars 63084-03-22 01:55 G 24762098.46 24762098.58 24762098.70 0.1618 0.0761

Saturn 63085-04-14 02:10 G 24762486.54 24762486.59 24762486.65 0.0280 0.0265

Saturn 63085-07-11 21:07 G 24762575.22 24762575.38 24762575.54 0.0279 0.0088

Saturn 63085-10-08 16:05 G 24762664.01 24762664.17 24762664.33 0.0279 0.0091

Saturn 63086-01-05 11:31 G 24762752.95 24762752.98 24762753.01 0.0279 0.0273

Earth 63087-05-14 05:46 G 24763246.62 24763246.74 24763246.85 0.2685 0.0322

Moon 63087-05-14 06:29 G 24763246.65 24763246.77 24763246.88 0.2687 0.0243 *

Jupiter 63087-06-18 12:43 G 24763281.86 24763282.03 24763282.20 0.0487 0.0066

Earth 63089-11-12 19:26 G 24764160.21 24764160.31 24764160.41 0.2646 0.1851

Moon 63089-11-12 20:53 G 24764160.26 24764160.37 24764160.48 0.2647 0.1775 *

Jupiter 63093-02-22 14:24 G 24765357.99 24765358.10 24765358.22 0.0541 0.0263

Jupiter 63093-05-23 01:12 G 24765447.50 24765447.55 24765447.60 0.0539 0.0496

Mars 63093-08-12 11:02 G 24765528.93 24765528.96 24765528.98 0.1617 0.1572

Jupiter 63099-04-06 12:29 G 24767591.87 24767592.02 24767592.17 0.0487 0.0246

Mars 63100-03-19 01:12 G 24767938.48 24767938.55 24767938.62 0.1903 0.1636

Earth 63100-05-17 00:29 G 24767997.42 24767997.52 24767997.63 0.2684 0.0892

Moon 63100-05-17 01:12 G 24767997.45 24767997.55 24767997.66 0.2681 0.1022 *

Saturn 63100-08-10 18:43 G 24768083.17 24768083.28 24768083.39 0.0280 0.0172

Saturn 63100-11-07 07:41 G 24768171.68 24768171.82 24768171.96 0.0280 0.0024

Saturn 63101-02-03 20:24 G 24768260.22 24768260.35 24768260.47 0.0281 0.0124

Saturn 63101-05-03 08:53 G 24768348.83 24768348.87 24768348.91 0.0281 0.0269

Earth 63102-11-16 22:19 G 24768911.29 24768911.43 24768911.58 0.2648 0.0040

Moon 63102-11-16 23:31 G 24768911.33 24768911.48 24768911.62 0.2643 0.0220 *

Mars 63104-12-09 07:26 G 24769664.71 24769664.81 24769664.92 0.1620 0.0949

Jupiter 63104-12-12 16:48 G 24769668.14 24769668.20 24769668.27 0.0541 0.0464

Jupiter 63105-03-12 04:05 G 24769757.56 24769757.67 24769757.78 0.0540 0.0307

Earth 63107-05-10 20:24 G 24770547.32 24770547.35 24770547.38 0.2687 0.2572

Moon 63107-05-10 20:10 G 24770547.33 24770547.34 24770547.36 0.2693 0.2659 *

Mars 63109-08-09 02:24 G 24771368.46 24771368.60 24771368.74 0.1905 0.0054

Jupiter 63111-01-24 11:46 G 24771901.92 24771901.99 24771902.07 0.0486 0.0433

Jupiter 63111-04-24 10:48 G 24771991.81 24771991.95 24771992.09 0.0488 0.0296

Earth 63113-05-19 19:12 G 24772748.23 24772748.30 24772748.38 0.2682 0.2069

Moon 63113-05-19 19:26 G 24772748.24 24772748.31 24772748.39 0.2676 0.2029 *

Venus 63113-08-15 23:46 G 24772836.40 24772836.49 24772836.58 0.3683 0.1846

Mars 63114-05-01 16:48 G 24773095.07 24773095.20 24773095.33 0.1619 0.0170

Saturn 63114-11-29 23:31 G 24773307.33 24773307.48 24773307.64 0.0280 0.0114

Saturn 63115-02-26 18:29 G 24773396.11 24773396.27 24773396.44 0.0279 0.0065

Venus 63115-03-02 11:17 G 24773399.83 24773399.97 24773400.12 0.3689 0.0354

Saturn 63115-05-26 13:55 G 24773485.00 24773485.08 24773485.16 0.0279 0.0246

Earth 63115-11-20 01:41 G 24773662.47 24773662.57 24773662.67 0.2649 0.1960

Moon 63115-11-20 01:55 G 24773662.48 24773662.58 24773662.69 0.2643 0.1890 *

Jupiter 63116-12-29 07:12 G 24774067.67 24774067.80 24774067.93 0.0541 0.0122

Mars 63118-12-30 04:05 G 24774798.60 24774798.67 24774798.73 0.1906 0.1685

Venus 63119-03-01 15:50 G 24774860.06 24774860.16 24774860.27 0.3682 0.0884

Earth 63120-05-12 15:36 G 24775298.05 24775298.15 24775298.25 0.2686 0.1315

Moon 63120-05-12 16:05 G 24775298.07 24775298.17 24775298.27 0.2692 0.1224 *

Jupiter 63123-02-10 10:34 G 24776301.77 24776301.94 24776302.11 0.0487 0.0112

Uranus 63123-06-30 19:55 G 24776442.27 24776442.33 24776442.40 0.0137 0.0120

Mars 63123-09-22 02:10 G 24776525.46 24776525.59 24776525.71 0.1618 0.0633

Uranus 63123-09-26 23:46 G 24776530.40 24776530.49 24776530.58 0.0137 0.0100

Uranus 63123-12-24 03:22 G 24776618.53 24776618.64 24776618.75 0.0137 0.0080

Uranus 63124-03-21 06:58 G 24776706.66 24776706.79 24776706.91 0.0137 0.0060

Uranus 63124-06-17 10:19 G 24776794.80 24776794.93 24776795.07 0.0137 0.0040

Uranus 63124-09-13 13:55 G 24776882.95 24776883.08 24776883.22 0.0137 0.0020

Venus 63124-09-14 07:55 G 24776883.81 24776883.83 24776883.86 0.3681 0.3549

Uranus 63124-12-10 17:31 G 24776971.09 24776971.23 24776971.37 0.0137 0.0002

Uranus 63125-03-08 21:07 G 24777059.24 24777059.38 24777059.52 0.0137 0.0020

Uranus 63125-06-05 00:43 G 24777147.39 24777147.53 24777147.66 0.0137 0.0040

Uranus 63125-09-01 04:05 G 24777235.55 24777235.67 24777235.79 0.0137 0.0060

Uranus 63125-11-28 07:26 G 24777323.71 24777323.81 24777323.93 0.0137 0.0080

Uranus 63126-02-24 11:02 G 24777411.87 24777411.96 24777412.05 0.0137 0.0100

Uranus 63126-05-23 14:24 G 24777500.04 24777500.10 24777500.17 0.0137 0.0120

Jupiter 63128-10-17 10:19 G 24778377.80 24778377.93 24778378.07 0.0541 0.0064

Neptune 63129-05-15 17:46 G 24778588.19 24778588.24 24778588.33 0.0088 0.0080

Neptune 63129-08-11 20:53 G 24778676.28 24778676.37 24778676.49 0.0088 0.0070

Neptune 63129-11-08 00:00 G 24778764.37 24778764.50 24778764.63 0.0088 0.0060

Saturn 63129-12-28 20:10 G 24778815.26 24778815.34 24778815.43 0.0279 0.0218

Neptune 63130-02-04 02:53 G 24778852.48 24778852.62 24778852.77 0.0088 0.0050

Saturn 63130-03-27 09:07 G 24778903.75 24778903.88 24778904.02 0.0279 0.0069

Neptune 63130-05-03 06:00 G 24778940.59 24778940.75 24778940.91 0.0088 0.0040

Saturn 63130-06-23 21:50 G 24778992.28 24778992.41 24778992.55 0.0280 0.0079

Neptune 63130-07-30 08:38 G 24779028.70 24779028.86 24779029.04 0.0088 0.0031

Saturn 63130-09-20 10:34 G 24779080.86 24779080.94 24779081.02 0.0280 0.0223

Neptune 63130-10-26 11:46 G 24779116.82 24779116.99 24779117.17 0.0088 0.0021

Neptune 63131-01-22 14:38 G 24779204.94 24779205.11 24779205.30 0.0088 0.0011

Neptune 63131-04-20 17:46 G 24779293.06 24779293.24 24779293.42 0.0088 0.0001

Neptune 63131-07-17 20:38 G 24779381.19 24779381.36 24779381.55 0.0088 0.0010

Neptune 63131-10-13 23:46 G 24779469.32 24779469.49 24779469.67 0.0088 0.0020

Neptune 63132-01-10 02:38 G 24779557.45 24779557.61 24779557.79 0.0088 0.0030

Neptune 63132-04-07 05:46 G 24779645.58 24779645.74 24779645.91 0.0088 0.0040

Neptune 63132-07-04 08:53 G 24779733.72 24779733.87 24779734.02 0.0088 0.0050

Neptune 63132-09-30 12:00 G 24779821.87 24779822.00 24779822.13 0.0088 0.0060

Neptune 63132-12-27 14:38 G 24779910.02 24779910.11 24779910.24 0.0088 0.0071

Mars 63133-02-11 11:17 G 24779955.91 24779955.97 24779956.02 0.1617 0.1437

Neptune 63133-03-25 17:46 G 24779998.19 24779998.24 24779998.33 0.0088 0.0082

Earth 63133-05-15 10:34 G 24780048.83 24780048.94 24780049.06 0.2685 0.0130

Moon 63133-05-15 11:31 G 24780048.86 24780048.98 24780049.09 0.2685 0.0060 *

Jupiter 63134-11-29 10:05 G 24780611.75 24780611.92 24780612.09 0.0487 0.0072

Earth 63135-11-15 01:26 G 24780962.44 24780962.56 24780962.68 0.2646 0.1521

Moon 63135-11-15 02:53 G 24780962.49 24780962.62 24780962.74 0.2645 0.1372 *

Mars 63139-09-18 01:41 G 24782365.53 24782365.57 24782365.60 0.1903 0.1821

Jupiter 63140-08-05 13:26 G 24782687.94 24782688.06 24782688.18 0.0541 0.0250

Jupiter 63140-11-03 00:00 G 24782777.46 24782777.50 24782777.54 0.0539 0.0510

Saturn 63144-04-17 22:05 G 24784039.29 24784039.42 24784039.55 0.0280 0.0179

Mars 63144-06-09 07:41 G 24784091.73 24784091.82 24784091.92 0.1620 0.1078

Saturn 63144-07-15 16:48 G 24784128.03 24784128.20 24784128.38 0.0279 0.0007

Saturn 63144-10-12 12:00 G 24784216.87 24784217.00 24784217.14 0.0279 0.0180

Earth 63146-05-18 05:31 G 24784799.63 24784799.73 24784799.83 0.2684 0.1116

Moon 63146-05-18 06:14 G 24784799.66 24784799.76 24784799.86 0.2681 0.1163 *

Jupiter 63146-09-17 10:19 G 24784921.79 24784921.93 24784922.08 0.0487 0.0246

Earth 63148-11-17 04:34 G 24785713.54 24785713.69 24785713.83 0.2648 0.0373

Moon 63148-11-17 05:31 G 24785713.58 24785713.73 24785713.88 0.2643 0.0389 *

Mars 63149-02-07 02:53 G 24785795.48 24785795.62 24785795.76 0.1905 0.0148

Jupiter 63152-05-24 15:36 G 24786998.08 24786998.15 24786998.22 0.0541 0.0459

Jupiter 63152-08-22 02:38 G 24787087.50 24787087.61 24787087.72 0.0540 0.0312

Moon 63153-05-11 01:26 G 24787349.50 24787349.56 24787349.62 0.2694 0.2273

Earth 63153-05-11 01:26 G 24787349.50 24787349.56 24787349.61 0.2687 0.2340 *

Mars 63153-10-30 17:02 G 24787522.08 24787522.21 24787522.34 0.1619 0.0299

Mars 63158-06-30 04:19 G 24789225.59 24789225.68 24789225.76 0.1906 0.1510

Jupiter 63158-07-06 10:19 G 24789231.85 24789231.93 24789232.02 0.0487 0.0423

Jupiter 63158-10-04 09:22 G 24789321.76 24789321.89 24789322.03 0.0488 0.0307

Saturn 63159-05-17 22:34 G 24789547.39 24789547.44 24789547.50 0.0280 0.0254

Earth 63159-05-21 00:14 G 24789550.45 24789550.51 24789550.57 0.2682 0.2286

Moon 63159-05-21 00:29 G 24789550.46 24789550.52 24789550.57 0.2675 0.2337 *

Saturn 63159-08-14 11:46 G 24789635.86 24789635.99 24789636.12 0.0280 0.0104

Saturn 63159-11-11 00:29 G 24789724.38 24789724.52 24789724.66 0.0280 0.0044

Saturn 63160-02-07 13:12 G 24789812.95 24789813.05 24789813.15 0.0281 0.0190

Moon 63161-11-20 07:41 G 24790464.76 24790464.82 24790464.89 0.2643 0.2395

Earth 63161-11-20 07:55 G 24790464.76 24790464.83 24790464.90 0.2649 0.2321 *

Mars 63163-03-23 02:10 G 24790952.47 24790952.59 24790952.72 0.1618 0.0499

Uranus 63164-01-20 15:50 G 24791256.08 24791256.16 24791256.26 0.0142 0.0121

Uranus 63164-04-17 22:48 G 24791344.32 24791344.45 24791344.59 0.0142 0.0093

Jupiter 63164-06-10 05:31 G 24791397.60 24791397.73 24791397.86 0.0540 0.0121

Uranus 63164-07-15 05:46 G 24791432.59 24791432.74 24791432.91 0.0142 0.0064

Venus 63164-09-06 05:02 G 24791485.69 24791485.71 24791485.73 0.3683 0.3593

Uranus 63164-10-11 12:43 G 24791520.86 24791521.03 24791521.21 0.0141 0.0036

Uranus 63165-01-07 19:55 G 24791609.15 24791609.33 24791609.51 0.0141 0.0006

Uranus 63165-04-06 02:53 G 24791697.44 24791697.62 24791697.80 0.0141 0.0023

Uranus 63165-07-03 10:05 G 24791785.75 24791785.92 24791786.09 0.0141 0.0052

Uranus 63165-09-29 17:02 G 24791874.07 24791874.21 24791874.37 0.0141 0.0081

Uranus 63165-12-27 00:14 G 24791962.40 24791962.51 24791962.63 0.0141 0.0110

Uranus 63166-03-25 07:26 G 24792050.79 24792050.81 24792050.84 0.0141 0.0139

Earth 63166-05-13 20:38 G 24792100.25 24792100.36 24792100.47 0.2686 0.1080

Moon 63166-05-13 21:07 G 24792100.28 24792100.38 24792100.49 0.2691 0.1088 *

Venus 63170-03-22 21:22 G 24793509.28 24793509.39 24793509.49 0.3682 0.0831

Jupiter 63170-07-23 08:24 G 24793631.68 24793631.85 24793632.02 0.0487 0.0112

Venus 63171-10-07 12:00 G 24794072.90 24794073.00 24794073.10 0.3689 0.2641

Mars 63172-08-12 11:17 G 24794382.89 24794382.97 24794383.05 0.1617 0.1304

Saturn 63173-09-05 00:29 G 24794771.40 24794771.52 24794771.63 0.0280 0.0206

Saturn 63173-12-02 19:12 G 24794860.13 24794860.30 24794860.47 0.0280 0.0029

Saturn 63174-03-01 14:24 G 24794948.96 24794949.10 24794949.24 0.0279 0.0151

Venus 63175-10-06 13:26 G 24795532.97 24795533.06 24795533.15 0.3682 0.1887

Jupiter 63176-03-29 08:24 G 24795707.71 24795707.85 24795707.98 0.0541 0.0073

Earth 63179-05-16 15:36 G 24796851.04 24796851.15 24796851.27 0.2685 0.0148

Moon 63179-05-16 16:34 G 24796851.07 24796851.19 24796851.30 0.2685 0.0294 *

Earth 63181-11-15 07:41 G 24797764.69 24797764.82 24797764.95 0.2647 0.1179

Moon 63181-11-15 08:53 G 24797764.74 24797764.87 24797765.01 0.2644 0.1026 *

Jupiter 63182-05-11 08:24 G 24797941.68 24797941.85 24797942.02 0.0487 0.0068

Mars 63183-12-09 07:55 G 24798518.74 24798518.83 24798518.91 0.1620 0.1204

Jupiter 63188-01-16 11:31 G 24800017.86 24800017.98 24800018.10 0.0542 0.0256

Jupiter 63188-04-14 22:19 G 24800107.39 24800107.43 24800107.47 0.0540 0.0506

Mars 63188-08-08 02:53 G 24800222.48 24800222.62 24800222.76 0.1905 0.0300

Saturn 63188-12-31 13:12 G 24800367.94 24800368.05 24800368.18 0.0279 0.0149

Saturn 63189-03-30 02:10 G 24800456.45 24800456.59 24800456.73 0.0279 0.0005

Saturn 63189-06-26 14:53 G 24800545.00 24800545.12 24800545.24 0.0280 0.0145

Earth 63192-05-18 10:34 G 24801601.84 24801601.94 24801602.04 0.2683 0.1339

Moon 63192-05-18 11:02 G 24801601.86 24801601.96 24801602.06 0.2679 0.1399 *

Mars 63193-04-30 17:17 G 24801949.09 24801949.22 24801949.34 0.1619 0.0428

Jupiter 63194-02-27 08:10 G 24802251.70 24802251.84 24802251.99 0.0487 0.0248

Earth 63194-11-18 10:34 G 24802515.80 24802515.94 24802516.08 0.2648 0.0711

Moon 63194-11-18 11:31 G 24802515.84 24802515.98 24802516.12 0.2643 0.0857 *

Mars 63197-12-29 04:48 G 24803652.60 24803652.70 24803652.80 0.1906 0.1306

Earth 63199-05-12 06:29 G 24804151.70 24804151.77 24804151.84 0.2687 0.2097

Moon 63199-05-12 06:29 G 24804151.71 24804151.77 24804151.84 0.2694 0.2161 *

Jupiter 63199-11-04 14:24 G 24804328.03 24804328.10 24804328.18 0.0542 0.0447

Jupiter 63200-02-02 01:41 G 24804417.46 24804417.57 24804417.67 0.0540 0.0326

Mars 63202-09-21 02:24 G 24805379.47 24805379.60 24805379.73 0.1618 0.0363

Saturn 63203-01-22 22:34 G 24805503.41 24805503.44 24805503.47 0.0280 0.0274

Saturn 63203-04-21 17:17 G 24805592.06 24805592.22 24805592.38 0.0280 0.0098

Saturn 63203-07-19 12:14 G 24805680.85 24805681.01 24805681.18 0.0279 0.0082

Saturn 63203-10-16 07:41 G 24805769.77 24805769.82 24805769.87 0.0279 0.0263

Moon 63205-05-21 05:17 G 24806352.68 24806352.72 24806352.76 0.2675 0.2472

Earth 63205-05-21 05:17 G 24806352.68 24806352.72 24806352.76 0.2682 0.2505 *

Jupiter 63205-12-16 08:38 G 24806561.77 24806561.86 24806561.94 0.0487 0.0420

Jupiter 63206-03-16 07:26 G 24806651.68 24806651.81 24806651.94 0.0488 0.0309

Uranus 63207-04-24 00:00 G 24807055.48 24807055.50 24807055.54 0.0136 0.0133

Uranus 63207-07-21 03:50 G 24807143.59 24807143.66 24807143.74 0.0137 0.0112

Uranus 63207-10-17 07:26 G 24807231.71 24807231.81 24807231.92 0.0137 0.0092

Moon 63207-11-21 13:41 G 24807267.04 24807267.07 24807267.11 0.2643 0.2557

Uranus 63208-01-13 11:02 G 24807319.85 24807319.96 24807320.08 0.0137 0.0072

Uranus 63208-04-10 14:38 G 24807407.98 24807408.11 24807408.24 0.0137 0.0051

Uranus 63208-07-07 18:14 G 24807496.13 24807496.26 24807496.40 0.0137 0.0031

Uranus 63208-10-03 21:50 G 24807584.27 24807584.41 24807584.55 0.0137 0.0011

Uranus 63208-12-31 01:26 G 24807672.42 24807672.56 24807672.69 0.0137 0.0009

Uranus 63209-03-29 04:48 G 24807760.57 24807760.70 24807760.84 0.0137 0.0029

Uranus 63209-06-25 08:24 G 24807848.72 24807848.85 24807848.98 0.0137 0.0049

Uranus 63209-09-21 11:46 G 24807936.88 24807936.99 24807937.11 0.0137 0.0069

Uranus 63209-12-18 15:22 G 24808025.04 24808025.14 24808025.24 0.0137 0.0088

Neptune 63210-03-14 12:58 G 24808111.01 24808111.04 24808111.10 0.0089 0.0084

Uranus 63210-03-16 18:43 G 24808113.20 24808113.28 24808113.37 0.0137 0.0108

Neptune 63210-06-10 14:53 G 24808199.05 24808199.12 24808199.19 0.0089 0.0076

Uranus 63210-06-12 22:05 G 24808201.38 24808201.42 24808201.48 0.0137 0.0128

Neptune 63210-09-06 16:19 G 24808287.10 24808287.18 24808287.28 0.0089 0.0068

Neptune 63210-12-03 18:00 G 24808375.15 24808375.25 24808375.36 0.0089 0.0059

Neptune 63211-03-01 19:41 G 24808463.21 24808463.32 24808463.44 0.0089 0.0051

Neptune 63211-05-28 21:22 G 24808551.27 24808551.39 24808551.51 0.0089 0.0043

Neptune 63211-08-24 22:48 G 24808639.33 24808639.45 24808639.58 0.0089 0.0034

Neptune 63211-11-21 00:29 G 24808727.39 24808727.52 24808727.65 0.0089 0.0026

Jupiter 63211-11-21 04:19 G 24808727.55 24808727.68 24808727.81 0.0540 0.0129 *

Mars 63212-02-11 11:31 G 24808809.89 24808809.98 24808810.07 0.1617 0.1165

Neptune 63212-02-17 01:55 G 24808815.45 24808815.58 24808815.72 0.0089 0.0018

Earth 63212-05-14 01:41 G 24808902.46 24808902.57 24808902.68 0.2685 0.0855

Moon 63212-05-14 02:10 G 24808902.48 24808902.59 24808902.70 0.2689 0.0717 *

Neptune 63212-05-15 03:36 G 24808903.51 24808903.65 24808903.79 0.0089 0.0010

Neptune 63212-08-11 05:17 G 24808991.58 24808991.72 24808991.86 0.0089 0.0003

Neptune 63212-11-07 06:43 G 24809079.64 24809079.78 24809079.92 0.0089 0.0006

Neptune 63213-02-03 08:24 G 24809167.71 24809167.85 24809167.98 0.0089 0.0015

Neptune 63213-05-02 09:50 G 24809255.77 24809255.91 24809256.04 0.0089 0.0022

Neptune 63213-07-29 11:17 G 24809343.84 24809343.97 24809344.10 0.0089 0.0031

Neptune 63213-10-25 12:43 G 24809431.91 24809432.03 24809432.16 0.0089 0.0039

Neptune 63214-01-21 14:24 G 24809519.98 24809520.10 24809520.22 0.0089 0.0046

Neptune 63214-04-19 15:50 G 24809608.05 24809608.16 24809608.27 0.0089 0.0054

Neptune 63214-07-16 17:17 G 24809696.13 24809696.22 24809696.32 0.0089 0.0062

Neptune 63214-10-12 18:43 G 24809784.20 24809784.28 24809784.37 0.0089 0.0070

Moon 63214-11-13 12:14 G 24809815.96 24809816.01 24809816.06 0.2648 0.2475

Neptune 63215-01-08 20:10 G 24809872.29 24809872.34 24809872.42 0.0089 0.0078

Neptune 63215-04-06 21:36 G 24809960.38 24809960.40 24809960.45 0.0089 0.0086

Jupiter 63218-01-02 07:12 G 24810961.63 24810961.80 24810961.96 0.0488 0.0125

Saturn 63218-05-20 15:22 G 24811100.04 24811100.14 24811100.24 0.0280 0.0189

Saturn 63218-08-17 04:19 G 24811188.54 24811188.68 24811188.82 0.0280 0.0041

Saturn 63218-11-13 17:02 G 24811277.08 24811277.21 24811277.34 0.0280 0.0107

Saturn 63219-02-10 05:31 G 24811365.67 24811365.73 24811365.79 0.0281 0.0252

Venus 63221-04-13 02:38 G 24812158.53 24812158.61 24812158.68 0.3683 0.2552

Venus 63222-10-28 08:24 G 24812721.72 24812721.85 24812721.98 0.3688 0.1742

Mars 63223-06-09 07:55 G 24812945.76 24812945.83 24812945.91 0.1620 0.1333

Jupiter 63223-09-09 06:58 G 24813037.65 24813037.79 24813037.92 0.0541 0.0067

Earth 63225-05-16 20:38 G 24813653.24 24813653.36 24813653.47 0.2684 0.0371

Moon 63225-05-16 21:22 G 24813653.28 24813653.39 24813653.51 0.2684 0.0414 *

Venus 63226-10-27 18:58 G 24814182.18 24814182.29 24814182.39 0.3682 0.0215

Earth 63227-11-16 13:41 G 24814566.93 24814567.07 24814567.21 0.2647 0.0839

Moon 63227-11-16 14:53 G 24814566.98 24814567.12 24814567.26 0.2644 0.0745 *

Mars 63228-02-07 03:22 G 24814649.50 24814649.64 24814649.78 0.1905 0.0505

Jupiter 63229-10-21 06:29 G 24815271.60 24815271.77 24815271.94 0.0487 0.0064

Venus 63232-05-12 11:02 G 24816205.90 24816205.96 24816206.02 0.3681 0.2896

Saturn 63232-09-07 19:26 G 24816324.16 24816324.31 24816324.46 0.0280 0.0128

Mars 63232-10-29 17:17 G 24816376.10 24816376.22 24816376.34 0.1619 0.0554

Saturn 63232-12-05 14:24 G 24816412.93 24816413.10 24816413.27 0.0280 0.0051

Saturn 63233-03-04 09:36 G 24816501.81 24816501.90 24816502.00 0.0279 0.0232

Pluto 63234-01-14 11:46 G 24816817.97 24816817.99 24816818.03 0.0065 0.0064

Pluto 63234-04-12 12:14 G 24816905.94 24816906.01 24816906.11 0.0066 0.0054

Pluto 63234-07-09 12:58 G 24816993.94 24816994.04 24816994.16 0.0066 0.0043

Pluto 63234-10-05 13:41 G 24817081.95 24817082.07 24817082.21 0.0066 0.0032

Pluto 63235-01-01 14:38 G 24817169.97 24817170.11 24817170.24 0.0066 0.0021

Pluto 63235-03-30 15:07 G 24817257.99 24817258.13 24817258.28 0.0066 0.0011

Pluto 63235-06-26 15:50 G 24817346.02 24817346.16 24817346.31 0.0066 0.0001

Jupiter 63235-06-28 09:36 G 24817347.78 24817347.90 24817348.01 0.0542 0.0265

Pluto 63235-09-22 16:34 G 24817434.05 24817434.19 24817434.33 0.0066 0.0011

Jupiter 63235-09-25 20:24 G 24817437.30 24817437.35 24817437.40 0.0540 0.0500

Pluto 63235-12-19 17:02 G 24817522.08 24817522.21 24817522.35 0.0066 0.0022

Pluto 63236-03-16 17:31 G 24817610.12 24817610.23 24817610.37 0.0066 0.0033

Pluto 63236-06-12 18:14 G 24817698.16 24817698.26 24817698.38 0.0066 0.0044

Pluto 63236-09-08 19:12 G 24817786.22 24817786.30 24817786.38 0.0066 0.0055

Pluto 63236-12-05 19:41 G 24817874.31 24817874.32 24817874.34 0.0067 0.0066

Mars 63237-06-29 04:34 G 24818079.58 24818079.69 24818079.81 0.1906 0.1154

Earth 63238-05-19 15:36 G 24818404.05 24818404.15 24818404.24 0.2683 0.1565

Moon 63238-05-19 15:50 G 24818404.07 24818404.16 24818404.25 0.2678 0.1637 *

Earth 63240-11-18 16:48 G 24819318.06 24819318.20 24819318.33 0.2648 0.1069

Moon 63240-11-18 17:17 G 24819318.09 24819318.22 24819318.36 0.2643 0.1105 *

Jupiter 63241-08-09 06:29 G 24819581.63 24819581.77 24819581.92 0.0487 0.0241

Mars 63242-03-22 02:38 G 24819806.48 24819806.61 24819806.74 0.1618 0.0234

Moon 63245-05-12 11:31 G 24820953.90 24820953.98 24820954.07 0.2694 0.1795

Earth 63245-05-12 11:31 G 24820953.90 24820953.98 24820954.06 0.2687 0.1862 *

Jupiter 63247-04-16 12:43 G 24821657.95 24821658.03 24821658.10 0.0542 0.0452

Jupiter 63247-07-14 23:46 G 24821747.39 24821747.49 24821747.60 0.0540 0.0325

Saturn 63247-10-07 17:02 G 24821832.14 24821832.21 24821832.29 0.0278 0.0232

Uranus 63247-11-13 16:19 G 24821869.17 24821869.18 24821869.21 0.0142 0.0141

Saturn 63248-01-04 06:00 G 24821920.62 24821920.75 24821920.89 0.0279 0.0084

Uranus 63248-02-09 23:02 G 24821957.37 24821957.46 24821957.58 0.0142 0.0113

Saturn 63248-04-01 18:43 G 24822009.15 24822009.28 24822009.42 0.0279 0.0063

Uranus 63248-05-08 06:14 G 24822045.62 24822045.76 24822045.91 0.0142 0.0084

Saturn 63248-06-29 07:12 G 24822097.72 24822097.80 24822097.90 0.0280 0.0208

Uranus 63248-08-04 13:12 G 24822133.89 24822134.05 24822134.22 0.0142 0.0055

Uranus 63248-10-31 20:10 G 24822222.17 24822222.34 24822222.52 0.0141 0.0027

Uranus 63249-01-28 03:07 G 24822310.45 24822310.63 24822310.82 0.0141 0.0004

Uranus 63249-04-26 10:19 G 24822398.75 24822398.93 24822399.11 0.0141 0.0031

Uranus 63249-07-23 17:17 G 24822487.06 24822487.22 24822487.39 0.0141 0.0060

Uranus 63249-10-20 00:29 G 24822575.38 24822575.52 24822575.66 0.0141 0.0089

Uranus 63250-01-16 07:26 G 24822663.73 24822663.81 24822663.92 0.0141 0.0119

Mars 63251-08-12 11:46 G 24823236.89 24823236.99 24823237.09 0.1617 0.1032

Jupiter 63253-05-28 06:29 G 24823891.69 24823891.77 24823891.86 0.0486 0.0418

Jupiter 63253-08-26 05:17 G 24823981.59 24823981.72 24823981.86 0.0488 0.0310

Earth 63258-05-15 06:43 G 24825704.66 24825704.78 24825704.89 0.2685 0.0625

Moon 63258-05-15 07:26 G 24825704.69 24825704.81 24825704.92 0.2688 0.0609 *

Jupiter 63259-05-03 03:07 G 24826057.50 24826057.63 24826057.76 0.0541 0.0143

Earth 63260-11-13 17:02 G 24826618.14 24826618.21 24826618.27 0.2646 0.2331

Moon 63260-11-13 18:14 G 24826618.19 24826618.26 24826618.33 0.2646 0.2296 *

Saturn 63262-01-25 17:02 G 24827056.10 24827056.21 24827056.33 0.0280 0.0199

Saturn 63262-04-24 12:00 G 24827144.83 24827145.00 24827145.17 0.0280 0.0022

Saturn 63262-07-22 06:58 G 24827233.66 24827233.79 24827233.94 0.0279 0.0159

Mars 63262-12-08 08:10 G 24827372.79 24827372.84 24827372.89 0.1620 0.1459

Jupiter 63265-06-14 05:17 G 24828291.56 24828291.72 24828291.89 0.0488 0.0131

Mars 63267-08-08 03:36 G 24829076.52 24829076.65 24829076.78 0.1905 0.0687

Jupiter 63271-02-19 05:46 G 24830367.61 24830367.74 24830367.88 0.0541 0.0055

Earth 63271-05-18 01:41 G 24830455.45 24830455.57 24830455.68 0.2684 0.0603

Moon 63271-05-18 02:24 G 24830455.49 24830455.60 24830455.71 0.2683 0.0744 *

Mars 63272-04-29 17:31 G 24830803.11 24830803.23 24830803.35 0.1619 0.0687

Earth 63273-11-16 19:41 G 24831369.18 24831369.32 24831369.46 0.2647 0.0497

Moon 63273-11-16 20:53 G 24831369.23 24831369.37 24831369.52 0.2644 0.0319 *

Mars 63276-12-28 05:02 G 24832506.59 24832506.71 24832506.83 0.1906 0.0964

Saturn 63277-02-23 18:29 G 24832564.26 24832564.27 24832564.29 0.0279 0.0277

Jupiter 63277-04-02 05:17 G 24832601.55 24832601.72 24832601.89 0.0487 0.0051

Saturn 63277-05-23 07:41 G 24832652.69 24832652.82 24832652.95 0.0280 0.0128

Saturn 63277-08-19 20:24 G 24832741.21 24832741.35 24832741.50 0.0280 0.0021

Saturn 63277-11-16 09:07 G 24832829.77 24832829.88 24832829.99 0.0280 0.0165

Venus 63277-11-18 00:14 G 24832831.41 24832831.51 24832831.61 0.3683 0.1511

Venus 63279-06-04 09:07 G 24833394.74 24833394.88 24833395.02 0.3688 0.0526

Mars 63281-09-20 02:38 G 24834233.48 24834233.61 24834233.75 0.1618 0.0110

Jupiter 63282-12-08 08:24 G 24834677.73 24834677.85 24834677.97 0.0541 0.0253

Jupiter 63283-03-07 19:12 G 24834767.26 24834767.30 24834767.34 0.0539 0.0508

Venus 63283-06-03 16:34 G 24834855.09 24834855.19 24834855.29 0.3682 0.1230

Earth 63284-05-19 20:24 G 24835206.27 24835206.35 24835206.44 0.2683 0.1782

Moon 63284-05-19 20:53 G 24835206.28 24835206.37 24835206.45 0.2677 0.1774 *

Earth 63286-11-19 22:48 G 24836120.32 24836120.45 24836120.57 0.2648 0.1415

Moon 63286-11-19 23:02 G 24836120.34 24836120.46 24836120.59 0.2642 0.1426 *

Jupiter 63289-01-19 05:02 G 24836911.56 24836911.71 24836911.86 0.0487 0.0234

Mars 63291-02-10 11:46 G 24837663.88 24837663.99 24837664.10 0.1617 0.0900

Earth 63291-05-13 16:34 G 24837756.09 24837756.19 24837756.28 0.2686 0.1629

Moon 63291-05-13 16:48 G 24837756.11 24837756.20 24837756.29 0.2693 0.1639 *

Uranus 63291-05-14 07:55 G 24837756.78 24837756.83 24837756.89 0.0136 0.0124

Saturn 63291-06-14 18:43 G 24837788.19 24837788.28 24837788.37 0.0280 0.0234

Uranus 63291-08-10 11:31 G 24837844.90 24837844.98 24837845.07 0.0137 0.0104

Saturn 63291-09-11 13:26 G 24837876.90 24837877.06 24837877.23 0.0280 0.0057

Uranus 63291-11-06 15:07 G 24837933.03 24837933.13 24837933.25 0.0137 0.0084

Saturn 63291-12-09 08:38 G 24837965.71 24837965.86 24837966.02 0.0280 0.0124

Uranus 63292-02-02 18:43 G 24838021.16 24838021.28 24838021.41 0.0137 0.0064

Uranus 63292-04-30 22:19 G 24838109.30 24838109.43 24838109.57 0.0137 0.0043

Uranus 63292-07-28 01:55 G 24838197.45 24838197.58 24838197.72 0.0137 0.0023

Uranus 63292-10-24 05:31 G 24838285.59 24838285.73 24838285.87 0.0137 0.0003

Uranus 63293-01-20 09:07 G 24838373.74 24838373.88 24838374.02 0.0137 0.0017

Uranus 63293-04-18 12:29 G 24838461.89 24838462.02 24838462.16 0.0137 0.0037

Uranus 63293-07-15 15:50 G 24838550.05 24838550.16 24838550.30 0.0137 0.0058

Uranus 63293-10-11 19:41 G 24838638.20 24838638.32 24838638.43 0.0137 0.0077

Neptune 63293-11-13 12:58 G 24838671.03 24838671.04 24838671.10 0.0088 0.0086

Uranus 63294-01-07 23:02 G 24838726.37 24838726.46 24838726.56 0.0137 0.0096

Neptune 63294-02-09 16:05 G 24838759.09 24838759.17 24838759.27 0.0088 0.0076

Uranus 63294-04-06 02:24 G 24838814.54 24838814.60 24838814.68 0.0137 0.0116

Neptune 63294-05-08 19:12 G 24838847.19 24838847.30 24838847.42 0.0088 0.0066

Uranus 63294-07-03 06:00 G 24838902.73 24838902.75 24838902.77 0.0137 0.0136

Neptune 63294-08-04 21:50 G 24838935.29 24838935.41 24838935.56 0.0088 0.0057

Jupiter 63294-09-26 10:48 G 24838987.88 24838987.95 24838988.02 0.0542 0.0457

Neptune 63294-11-01 00:43 G 24839023.39 24839023.53 24839023.70 0.0088 0.0047

Jupiter 63294-12-24 22:05 G 24839077.31 24839077.42 24839077.53 0.0541 0.0320

Neptune 63295-01-28 03:50 G 24839111.50 24839111.66 24839111.83 0.0088 0.0037

Neptune 63295-04-26 06:43 G 24839199.62 24839199.78 24839199.96 0.0088 0.0027

Neptune 63295-07-23 09:50 G 24839287.73 24839287.91 24839288.09 0.0088 0.0017

Neptune 63295-10-19 12:43 G 24839375.85 24839376.03 24839376.22 0.0088 0.0007

Neptune 63296-01-15 15:50 G 24839463.98 24839464.16 24839464.34 0.0088 0.0003

Neptune 63296-04-12 18:43 G 24839552.10 24839552.28 24839552.46 0.0088 0.0013

Neptune 63296-07-09 21:36 G 24839640.23 24839640.40 24839640.58 0.0088 0.0023

Neptune 63296-10-06 00:43 G 24839728.37 24839728.53 24839728.70 0.0088 0.0033

Neptune 63297-01-02 03:50 G 24839816.50 24839816.66 24839816.82 0.0088 0.0043

Neptune 63297-03-31 06:29 G 24839904.64 24839904.77 24839904.93 0.0088 0.0054

Neptune 63297-06-27 09:36 G 24839992.79 24839992.90 24839993.04 0.0088 0.0064

Neptune 63297-09-23 12:43 G 24840080.94 24840081.03 24840081.14 0.0088 0.0074

Neptune 63297-12-20 15:50 G 24840169.12 24840169.16 24840169.22 0.0088 0.0085

Jupiter 63300-11-08 05:17 G 24841221.63 24841221.72 24841221.81 0.0486 0.0406

Jupiter 63301-02-06 04:05 G 24841311.54 24841311.67 24841311.80 0.0488 0.0321

Mars 63302-06-09 08:10 G 24841799.82 24841799.84 24841799.87 0.1620 0.1585

Earth 63304-05-16 11:31 G 24842506.87 24842506.98 24842507.10 0.2685 0.0395

Moon 63304-05-16 12:14 G 24842506.90 24842507.01 24842507.13 0.2688 0.0261 *

Saturn 63306-10-11 09:36 G 24843384.79 24843384.90 24843385.01 0.0278 0.0170

Jupiter 63306-10-14 01:26 G 24843387.43 24843387.56 24843387.69 0.0541 0.0141

Earth 63306-11-15 23:02 G 24843420.37 24843420.46 24843420.55 0.2646 0.2002

Moon 63306-11-16 00:29 G 24843420.41 24843420.52 24843420.62 0.2645 0.1765 *

Saturn 63307-01-07 22:34 G 24843473.29 24843473.44 24843473.58 0.0279 0.0024

Mars 63307-02-07 03:50 G 24843503.53 24843503.66 24843503.78 0.1905 0.0854

Saturn 63307-04-06 11:02 G 24843561.84 24843561.96 24843562.09 0.0279 0.0123

Saturn 63307-07-03 23:31 G 24843650.45 24843650.48 24843650.53 0.0280 0.0266

Mars 63311-10-30 17:46 G 24845230.12 24845230.24 24845230.35 0.1619 0.0816

Jupiter 63312-11-25 03:36 G 24845621.49 24845621.65 24845621.82 0.0487 0.0136

Mars 63316-06-29 05:31 G 24846933.60 24846933.73 24846933.86 0.1906 0.0772

Earth 63317-05-19 06:29 G 24847257.67 24847257.77 24847257.88 0.2684 0.0829

Moon 63317-05-19 07:12 G 24847257.69 24847257.80 24847257.91 0.2681 0.0837 *

Jupiter 63318-08-02 04:48 G 24847697.57 24847697.70 24847697.83 0.0541 0.0041

Earth 63319-11-19 01:41 G 24848171.42 24848171.57 24848171.72 0.2647 0.0154

Moon 63319-11-19 02:53 G 24848171.47 24848171.62 24848171.77 0.2644 0.0114 *

Saturn 63321-01-29 11:02 G 24848608.81 24848608.96 24848609.11 0.0280 0.0129

Mars 63321-03-22 02:53 G 24848660.49 24848660.62 24848660.75 0.1618 0.0038

Saturn 63321-04-28 06:00 G 24848697.58 24848697.75 24848697.92 0.0280 0.0049

Saturn 63321-07-26 01:12 G 24848786.46 24848786.55 24848786.65 0.0279 0.0231

Pluto 63322-01-15 19:26 G 24848960.27 24848960.31 24848960.39 0.0078 0.0073

Pluto 63322-04-13 21:36 G 24849048.29 24849048.40 24849048.54 0.0078 0.0052

Pluto 63322-07-10 23:46 G 24849136.34 24849136.49 24849136.66 0.0078 0.0031

Pluto 63322-10-07 01:55 G 24849224.41 24849224.58 24849224.75 0.0078 0.0009

Pluto 63323-01-03 03:50 G 24849312.49 24849312.66 24849312.83 0.0078 0.0012

Pluto 63323-04-01 05:46 G 24849400.59 24849400.74 24849400.90 0.0077 0.0032

Pluto 63323-06-28 07:26 G 24849488.70 24849488.81 24849488.95 0.0077 0.0054

Pluto 63323-09-24 09:22 G 24849576.86 24849576.89 24849576.96 0.0077 0.0075

Moon 63324-05-12 01:55 G 24849807.57 24849807.58 24849807.59 0.2695 0.2671

Earth 63324-05-12 02:10 G 24849807.58 24849807.59 24849807.60 0.2688 0.2656 *

Jupiter 63324-09-13 03:50 G 24849931.49 24849931.66 24849931.83 0.0487 0.0043

Venus 63328-12-10 05:31 G 24851480.68 24851480.73 24851480.78 0.3683 0.3246

Jupiter 63330-05-21 07:26 G 24852007.69 24852007.81 24852007.93 0.0541 0.0239

Earth 63330-05-22 01:26 G 24852008.48 24852008.56 24852008.63 0.2683 0.2002

Moon 63330-05-22 01:41 G 24852008.50 24852008.57 24852008.64 0.2677 0.2091 *

Mars 63330-08-12 12:00 G 24852090.89 24852091.00 24852091.12 0.1617 0.0765

Jupiter 63330-08-18 18:14 G 24852097.23 24852097.26 24852097.29 0.0539 0.0522

Uranus 63331-12-05 00:14 G 24852570.45 24852570.51 24852570.59 0.0142 0.0130

Uranus 63332-03-02 07:12 G 24852658.68 24852658.80 24852658.93 0.0142 0.0102

Uranus 63332-05-29 13:55 G 24852746.94 24852747.08 24852747.25 0.0142 0.0074

Uranus 63332-08-25 21:07 G 24852835.21 24852835.38 24852835.55 0.0141 0.0045

Earth 63332-11-21 04:48 G 24852922.60 24852922.70 24852922.81 0.2649 0.1775

Moon 63332-11-21 05:02 G 24852922.61 24852922.71 24852922.82 0.2642 0.1834 *

Uranus 63332-11-22 04:05 G 24852923.50 24852923.67 24852923.85 0.0141 0.0016

Uranus 63333-02-18 11:17 G 24853011.79 24853011.97 24853012.15 0.0141 0.0013

Uranus 63333-05-17 18:14 G 24853100.09 24853100.26 24853100.44 0.0141 0.0042

Uranus 63333-08-14 01:12 G 24853188.40 24853188.55 24853188.72 0.0141 0.0071

Uranus 63333-11-10 08:24 G 24853276.73 24853276.85 24853276.98 0.0141 0.0100

Uranus 63334-02-06 15:22 G 24853365.09 24853365.14 24853365.23 0.0141 0.0130

Venus 63334-06-25 21:50 G 24853504.31 24853504.41 24853504.52 0.3682 0.0471

Venus 63336-01-10 09:50 G 24854067.82 24854067.91 24854068.00 0.3689 0.2828

Saturn 63336-02-28 10:34 G 24854116.86 24854116.94 24854117.03 0.0279 0.0220

Saturn 63336-05-26 23:46 G 24854205.35 24854205.49 24854205.62 0.0279 0.0072

Jupiter 63336-07-02 03:50 G 24854241.51 24854241.66 24854241.81 0.0487 0.0219

Saturn 63336-08-23 12:29 G 24854293.88 24854294.02 24854294.15 0.0280 0.0075

Saturn 63336-11-20 00:58 G 24854382.46 24854382.54 24854382.63 0.0280 0.0220

Earth 63337-05-14 21:22 G 24854558.30 24854558.39 24854558.49 0.2686 0.1397

Moon 63337-05-14 21:50 G 24854558.31 24854558.41 24854558.51 0.2692 0.1338 *

Mars 63340-01-02 20:53 G 24855521.35 24855521.37 24855521.40 0.1616 0.1574

Venus 63340-01-09 14:10 G 24855528.00 24855528.09 24855528.17 0.3682 0.2248

Jupiter 63342-03-09 09:50 G 24856317.84 24856317.91 24856317.99 0.0542 0.0439

Jupiter 63342-06-06 21:07 G 24856407.28 24856407.38 24856407.48 0.0540 0.0334

Mars 63346-08-08 04:05 G 24857930.56 24857930.67 24857930.79 0.1905 0.1047

Jupiter 63348-04-20 03:50 G 24858551.56 24858551.66 24858551.76 0.0486 0.0396

Jupiter 63348-07-19 02:38 G 24858641.48 24858641.61 24858641.73 0.0488 0.0331

Earth 63350-05-17 16:34 G 24859309.08 24859309.19 24859309.31 0.2685 0.0158

Moon 63350-05-17 17:17 G 24859309.11 24859309.22 24859309.34 0.2688 0.0146 *

Saturn 63350-06-18 12:14 G 24859340.88 24859341.01 24859341.15 0.0280 0.0169

Saturn 63350-09-15 07:12 G 24859429.63 24859429.80 24859429.97 0.0280 0.0010

Saturn 63350-12-13 02:24 G 24859518.48 24859518.60 24859518.73 0.0280 0.0191

Mars 63351-04-30 17:46 G 24859657.14 24859657.24 24859657.35 0.1619 0.0941

Earth 63352-11-16 05:02 G 24860222.60 24860222.71 24860222.82 0.2646 0.1658

Moon 63352-11-16 06:29 G 24860222.66 24860222.77 24860222.89 0.2645 0.1614 *

Jupiter 63354-03-25 23:46 G 24860717.36 24860717.49 24860717.62 0.0541 0.0139

Mars 63355-12-29 05:31 G 24861360.60 24861360.73 24861360.86 0.1906 0.0607

Jupiter 63360-05-07 02:24 G 24862951.44 24862951.60 24862951.77 0.0487 0.0150

Mars 63360-09-20 03:07 G 24863087.50 24863087.63 24863087.76 0.1618 0.0164

Earth 63363-05-20 11:31 G 24864059.88 24864059.98 24864060.09 0.2684 0.1045

Moon 63363-05-20 12:14 G 24864059.90 24864060.01 24864060.11 0.2680 0.1182 *

Saturn 63365-07-17 12:43 G 24864848.99 24864849.03 24864849.08 0.0278 0.0259

Saturn 63365-10-14 01:41 G 24864937.45 24864937.57 24864937.71 0.0278 0.0112

Earth 63365-11-19 07:55 G 24864973.68 24864973.83 24864973.97 0.2647 0.0206

Moon 63365-11-19 08:38 G 24864973.72 24864973.86 24864974.01 0.2643 0.0375 *

Saturn 63366-01-10 14:38 G 24865025.97 24865026.11 24865026.25 0.0279 0.0035

Jupiter 63366-01-12 03:07 G 24865027.49 24865027.63 24865027.76 0.0542 0.0044

Saturn 63366-04-09 03:07 G 24865114.53 24865114.63 24865114.74 0.0279 0.0179

Mars 63370-02-10 12:14 G 24866517.89 24866518.01 24866518.13 0.1617 0.0631

Moon 63370-05-13 07:12 G 24866609.75 24866609.80 24866609.84 0.2694 0.2470

Earth 63370-05-13 07:12 G 24866609.75 24866609.80 24866609.85 0.2687 0.2413 *

Jupiter 63372-02-24 02:10 G 24867261.42 24867261.59 24867261.76 0.0487 0.0033

Neptune 63374-12-10 12:14 G 24868281.96 24868282.01 24868282.06 0.0089 0.0082

Uranus 63375-03-08 12:00 G 24868369.99 24868370.00 24868370.01 0.0136 0.0136

Neptune 63375-03-08 13:41 G 24868370.00 24868370.07 24868370.16 0.0089 0.0074 *

Neptune 63375-06-04 15:22 G 24868458.05 24868458.14 24868458.24 0.0089 0.0065

Uranus 63375-06-04 15:36 G 24868458.08 24868458.15 24868458.23 0.0136 0.0116 *

Neptune 63375-08-31 16:48 G 24868546.10 24868546.20 24868546.32 0.0089 0.0057

Uranus 63375-08-31 19:12 G 24868546.21 24868546.30 24868546.41 0.0136 0.0095 *

Neptune 63375-11-27 18:43 G 24868634.16 24868634.28 24868634.40 0.0089 0.0049

Uranus 63375-11-27 22:48 G 24868634.34 24868634.45 24868634.57 0.0137 0.0075 *

Neptune 63376-02-23 20:10 G 24868722.22 24868722.34 24868722.47 0.0089 0.0041

Uranus 63376-02-24 02:38 G 24868722.48 24868722.61 24868722.73 0.0137 0.0055

Neptune 63376-05-21 21:50 G 24868810.28 24868810.41 24868810.54 0.0089 0.0032

Uranus 63376-05-22 06:14 G 24868810.62 24868810.76 24868810.89 0.0137 0.0035

Earth 63376-05-22 06:14 G 24868810.70 24868810.76 24868810.83 0.2683 0.2224 *

Moon 63376-05-22 06:43 G 24868810.71 24868810.78 24868810.84 0.2677 0.2186 *

Neptune 63376-08-17 23:17 G 24868898.34 24868898.47 24868898.61 0.0089 0.0024

Uranus 63376-08-18 09:36 G 24868898.77 24868898.90 24868899.04 0.0137 0.0015

Neptune 63376-11-14 00:58 G 24868986.40 24868986.54 24868986.68 0.0089 0.0016

Uranus 63376-11-14 13:12 G 24868986.91 24868987.05 24868987.19 0.0137 0.0006

Neptune 63377-02-10 02:38 G 24869074.47 24869074.61 24869074.75 0.0089 0.0008

Uranus 63377-02-10 16:48 G 24869075.06 24869075.20 24869075.34 0.0137 0.0025

Neptune 63377-05-09 04:05 G 24869162.53 24869162.67 24869162.81 0.0089 0.0001

Uranus 63377-05-09 20:24 G 24869163.22 24869163.35 24869163.48 0.0137 0.0045

Neptune 63377-08-05 05:46 G 24869250.60 24869250.74 24869250.88 0.0089 0.0009

Uranus 63377-08-05 23:46 G 24869251.37 24869251.49 24869251.61 0.0137 0.0065

Jupiter 63377-10-31 06:14 G 24869337.64 24869337.76 24869337.89 0.0542 0.0227

Neptune 63377-11-01 07:12 G 24869338.66 24869338.80 24869338.94 0.0089 0.0016

Uranus 63377-11-02 03:07 G 24869339.53 24869339.63 24869339.74 0.0137 0.0085

Neptune 63378-01-28 08:38 G 24869426.73 24869426.86 24869427.00 0.0089 0.0025

Jupiter 63378-01-28 17:02 G 24869427.21 24869427.21 24869427.23 0.0540 0.0537

Uranus 63378-01-29 06:43 G 24869427.70 24869427.78 24869427.87 0.0137 0.0105

Neptune 63378-04-26 10:19 G 24869514.80 24869514.93 24869515.06 0.0089 0.0032

Uranus 63378-04-27 10:05 G 24869515.87 24869515.92 24869515.98 0.0137 0.0124

Neptune 63378-07-23 11:46 G 24869602.87 24869602.99 24869603.12 0.0089 0.0041

Neptune 63378-10-19 13:12 G 24869690.94 24869691.05 24869691.17 0.0089 0.0049

Earth 63378-11-22 11:02 G 24869724.87 24869724.96 24869725.05 0.2649 0.2127

Moon 63378-11-22 11:17 G 24869724.88 24869724.97 24869725.06 0.2642 0.2080 *

Neptune 63379-01-15 14:38 G 24869779.01 24869779.11 24869779.23 0.0089 0.0057

Neptune 63379-04-13 16:19 G 24869867.09 24869867.18 24869867.28 0.0089 0.0064

Mars 63379-07-03 21:07 G 24869948.33 24869948.38 24869948.44 0.1616 0.1435

Neptune 63379-07-10 17:46 G 24869955.17 24869955.24 24869955.33 0.0089 0.0072

Neptune 63379-10-06 19:12 G 24870043.25 24870043.30 24870043.37 0.0089 0.0080

Saturn 63379-11-05 09:36 G 24870072.83 24870072.90 24870072.99 0.0281 0.0242

Neptune 63380-01-02 20:38 G 24870131.35 24870131.36 24870131.39 0.0089 0.0088

Saturn 63380-02-02 04:34 G 24870161.53 24870161.69 24870161.86 0.0280 0.0064

Saturn 63380-04-30 23:31 G 24870250.33 24870250.48 24870250.64 0.0280 0.0116

Earth 63383-05-16 02:24 G 24871360.50 24871360.60 24871360.71 0.2686 0.1160

Moon 63383-05-16 03:07 G 24871360.52 24871360.63 24871360.73 0.2691 0.1084 *

Jupiter 63383-12-13 02:24 G 24871571.45 24871571.60 24871571.76 0.0487 0.0207

Venus 63385-07-17 03:07 G 24872153.55 24872153.63 24872153.72 0.3683 0.2200

Mars 63386-02-06 04:34 G 24872357.58 24872357.69 24872357.80 0.1905 0.1240

Venus 63387-01-31 06:14 G 24872716.63 24872716.76 24872716.89 0.3688 0.1531

Jupiter 63389-08-19 08:53 G 24873647.79 24873647.87 24873647.96 0.0542 0.0424

Jupiter 63389-11-16 20:10 G 24873737.24 24873737.34 24873737.44 0.0540 0.0350

Mars 63390-10-29 18:00 G 24874084.15 24874084.25 24874084.35 0.1619 0.1071

Venus 63391-01-30 19:26 G 24874177.21 24874177.31 24874177.42 0.3682 0.0557

Saturn 63395-03-03 02:38 G 24875669.50 24875669.61 24875669.73 0.0279 0.0163

Saturn 63395-05-30 15:36 G 24875758.01 24875758.15 24875758.29 0.0279 0.0017

Mars 63395-06-29 05:46 G 24875787.60 24875787.74 24875787.88 0.1906 0.0433

Saturn 63395-08-27 04:05 G 24875846.55 24875846.67 24875846.80 0.0280 0.0130

Jupiter 63395-10-01 02:38 G 24875881.51 24875881.61 24875881.72 0.0486 0.0382

Saturn 63395-11-23 16:34 G 24875935.17 24875935.19 24875935.22 0.0280 0.0273

Jupiter 63395-12-30 01:26 G 24875971.44 24875971.56 24875971.68 0.0488 0.0347

Earth 63396-05-17 21:36 G 24876111.28 24876111.40 24876111.51 0.2685 0.0078

Moon 63396-05-17 22:19 G 24876111.32 24876111.43 24876111.54 0.2686 0.0191 *

Venus 63396-08-15 11:31 G 24876200.94 24876200.98 24876201.03 0.3682 0.3255

Earth 63398-11-17 11:02 G 24877024.84 24877024.96 24877025.09 0.2646 0.1327

Moon 63398-11-17 12:29 G 24877024.89 24877025.02 24877025.15 0.2645 0.1103 *

Mars 63400-03-22 03:07 G 24877514.50 24877514.63 24877514.76 0.1618 0.0293

Jupiter 63401-09-05 23:02 G 24878047.33 24878047.46 24878047.59 0.0541 0.0159

Jupiter 63407-10-19 01:12 G 24880281.39 24880281.55 24880281.71 0.0487 0.0163

Earth 63409-05-21 16:34 G 24880862.09 24880862.19 24880862.29 0.2684 0.1271

Moon 63409-05-21 17:17 G 24880862.12 24880862.22 24880862.32 0.2679 0.1280 *

Saturn 63409-06-22 05:17 G 24880893.57 24880893.72 24880893.88 0.0280 0.0108

Mars 63409-08-12 12:14 G 24880944.89 24880945.01 24880945.14 0.1617 0.0504

Saturn 63409-09-19 00:14 G 24880982.35 24880982.51 24880982.68 0.0280 0.0072

Saturn 63409-12-16 19:41 G 24881071.25 24881071.32 24881071.39 0.0280 0.0254

Earth 63411-11-21 13:55 G 24881775.94 24881776.08 24881776.23 0.2648 0.0551

Moon 63411-11-21 14:38 G 24881775.97 24881776.11 24881776.26 0.2642 0.0528 *

Jupiter 63413-06-25 01:26 G 24882357.42 24882357.56 24882357.69 0.0542 0.0043

Uranus 63415-12-26 07:27 G 24883271.74 24883271.81 24883271.92 0.0142 0.0122

Uranus 63416-03-23 14:39 G 24883359.98 24883360.11 24883360.25 0.0142 0.0093

Moon 63416-05-14 12:15 G 24883411.94 24883412.01 24883412.08 0.2694 0.2132

Earth 63416-05-14 12:15 G 24883411.95 24883412.01 24883412.08 0.2687 0.2177 *

Uranus 63416-06-19 21:22 G 24883448.24 24883448.39 24883448.56 0.0142 0.0065

Uranus 63416-09-16 04:19 G 24883536.51 24883536.68 24883536.86 0.0141 0.0036

Uranus 63416-12-13 11:31 G 24883624.80 24883624.98 24883625.16 0.0141 0.0007

Uranus 63417-03-11 18:29 G 24883713.09 24883713.27 24883713.45 0.0141 0.0022

Uranus 63417-06-08 01:27 G 24883801.40 24883801.56 24883801.74 0.0141 0.0051

Uranus 63417-09-04 08:24 G 24883889.71 24883889.85 24883890.01 0.0141 0.0081

Uranus 63417-12-01 15:36 G 24883978.05 24883978.15 24883978.28 0.0141 0.0109

Uranus 63418-02-27 22:34 G 24884066.43 24884066.44 24884066.49 0.0141 0.0139

Mars 63419-01-02 21:22 G 24884375.31 24884375.39 24884375.47 0.1616 0.1302

Jupiter 63419-08-07 01:12 G 24884591.38 24884591.55 24884591.72 0.0487 0.0016

Earth 63422-05-24 11:17 G 24885612.92 24885612.97 24885613.01 0.2683 0.2439

Moon 63422-05-24 11:17 G 24885612.93 24885612.97 24885613.01 0.2676 0.2498 *

Saturn 63424-07-21 04:48 G 24886401.61 24886401.70 24886401.80 0.0278 0.0201

Saturn 63424-10-17 17:46 G 24886490.10 24886490.24 24886490.38 0.0278 0.0055

Earth 63424-11-23 17:17 G 24886527.17 24886527.22 24886527.27 0.2649 0.2493

Moon 63424-11-23 17:17 G 24886527.18 24886527.22 24886527.25 0.2643 0.2553 *

Saturn 63425-01-14 06:29 G 24886578.64 24886578.77 24886578.91 0.0279 0.0091

Saturn 63425-04-12 18:58 G 24886667.22 24886667.29 24886667.37 0.0279 0.0234

Jupiter 63425-04-13 04:34 G 24886667.57 24886667.69 24886667.81 0.0542 0.0229

Jupiter 63425-07-11 15:22 G 24886757.14 24886757.14 24886757.16 0.0540 0.0538

Mars 63425-08-08 04:34 G 24886784.59 24886784.69 24886784.79 0.1905 0.1392

Earth 63429-05-17 07:27 G 24888162.70 24888162.81 24888162.92 0.2686 0.0924

Moon 63429-05-17 08:10 G 24888162.73 24888162.84 24888162.95 0.2691 0.0880 *

Mars 63430-04-30 18:00 G 24888511.17 24888511.25 24888511.34 0.1619 0.1199

Jupiter 63431-05-26 00:58 G 24888901.39 24888901.54 24888901.70 0.0486 0.0197

Mars 63434-12-29 06:15 G 24890214.62 24890214.76 24890214.90 0.1906 0.0232

Jupiter 63437-01-30 07:41 G 24890977.74 24890977.82 24890977.91 0.0542 0.0414

Jupiter 63437-04-29 19:12 G 24891067.20 24891067.30 24891067.40 0.0541 0.0362

Saturn 63438-11-09 02:53 G 24891625.50 24891625.62 24891625.75 0.0281 0.0180

Saturn 63439-02-05 21:51 G 24891714.24 24891714.41 24891714.58 0.0280 0.0002

Saturn 63439-05-05 16:48 G 24891803.08 24891803.20 24891803.34 0.0280 0.0180

Mars 63439-09-21 03:22 G 24891941.51 24891941.64 24891941.77 0.1618 0.0423

Venus 63442-02-22 00:43 G 24892826.43 24892826.53 24892826.63 0.3683 0.1165

Earth 63442-05-20 02:39 G 24892913.49 24892913.61 24892913.72 0.2685 0.0305

Moon 63442-05-20 03:22 G 24892913.53 24892913.64 24892913.75 0.2684 0.0381 *

Jupiter 63443-03-14 01:27 G 24893211.45 24893211.56 24893211.67 0.0486 0.0368

Jupiter 63443-06-12 00:15 G 24893301.39 24893301.51 24893301.62 0.0488 0.0360

Venus 63443-09-08 06:58 G 24893389.65 24893389.79 24893389.93 0.3688 0.0683

Mars 63444-05-20 07:55 G 24893644.80 24893644.83 24893644.86 0.1907 0.1856

Earth 63444-11-18 17:03 G 24893827.08 24893827.21 24893827.35 0.2646 0.0988

Moon 63444-11-18 18:29 G 24893827.13 24893827.27 24893827.40 0.2644 0.0921 *

Venus 63447-09-07 17:03 G 24894850.11 24894850.21 24894850.30 0.3682 0.1576

Mars 63449-02-10 12:29 G 24895371.89 24895372.02 24895372.15 0.1617 0.0368

Jupiter 63449-02-15 22:05 G 24895377.30 24895377.42 24895377.55 0.0541 0.0175

Saturn 63453-12-08 05:31 G 24897133.68 24897133.73 24897133.78 0.0278 0.0256

Saturn 63454-03-06 18:29 G 24897222.14 24897222.27 24897222.40 0.0279 0.0108

Saturn 63454-06-03 07:27 G 24897310.67 24897310.81 24897310.95 0.0279 0.0039

Saturn 63454-08-30 19:55 G 24897399.23 24897399.33 24897399.44 0.0280 0.0182

Jupiter 63455-03-31 00:00 G 24897611.34 24897611.50 24897611.66 0.0487 0.0178

Earth 63455-05-22 21:22 G 24897664.30 24897664.39 24897664.49 0.2684 0.1497

Moon 63455-05-22 22:05 G 24897664.33 24897664.42 24897664.51 0.2679 0.1604 *

Earth 63457-11-21 19:55 G 24898578.20 24898578.33 24898578.47 0.2648 0.0893

Moon 63457-11-21 20:39 G 24898578.23 24898578.36 24898578.50 0.2641 0.1051 *

Mars 63458-07-03 21:36 G 24898802.31 24898802.40 24898802.49 0.1616 0.1171

Neptune 63458-08-12 11:17 G 24898841.92 24898841.97 24898842.05 0.0088 0.0082

Neptune 63458-11-08 14:24 G 24898930.01 24898930.10 24898930.21 0.0088 0.0072

Neptune 63459-02-04 17:03 G 24899018.10 24899018.21 24899018.35 0.0088 0.0063

Uranus 63459-03-29 19:27 G 24899071.27 24899071.31 24899071.36 0.0136 0.0128

Neptune 63459-05-03 19:55 G 24899106.20 24899106.33 24899106.49 0.0088 0.0053

Uranus 63459-06-25 23:17 G 24899159.39 24899159.47 24899159.55 0.0136 0.0108

Neptune 63459-07-30 23:03 G 24899194.31 24899194.46 24899194.62 0.0088 0.0043

Uranus 63459-09-22 02:53 G 24899247.51 24899247.62 24899247.73 0.0136 0.0087

Neptune 63459-10-27 01:55 G 24899282.42 24899282.58 24899282.76 0.0088 0.0033

Uranus 63459-12-19 06:29 G 24899335.65 24899335.77 24899335.89 0.0137 0.0067

Neptune 63460-01-23 05:03 G 24899370.54 24899370.71 24899370.89 0.0088 0.0023

Uranus 63460-03-16 10:05 G 24899423.79 24899423.92 24899424.05 0.0137 0.0047

Neptune 63460-04-20 07:55 G 24899458.66 24899458.83 24899459.01 0.0088 0.0013

Uranus 63460-06-12 13:41 G 24899511.94 24899512.07 24899512.21 0.0137 0.0027

Neptune 63460-07-17 11:03 G 24899546.78 24899546.96 24899547.14 0.0088 0.0004

Uranus 63460-09-08 17:17 G 24899600.08 24899600.22 24899600.36 0.0137 0.0007

Neptune 63460-10-13 13:55 G 24899634.90 24899635.08 24899635.26 0.0088 0.0007

Jupiter 63460-12-05 00:58 G 24899687.40 24899687.54 24899687.67 0.0541 0.0020

Uranus 63460-12-05 20:53 G 24899688.23 24899688.37 24899688.51 0.0137 0.0013

Neptune 63461-01-09 16:48 G 24899723.03 24899723.20 24899723.38 0.0088 0.0017

Uranus 63461-03-04 00:15 G 24899776.38 24899776.51 24899776.65 0.0137 0.0033

Neptune 63461-04-07 19:41 G 24899811.16 24899811.32 24899811.50 0.0088 0.0027

Uranus 63461-05-31 03:51 G 24899864.54 24899864.66 24899864.79 0.0137 0.0053

Neptune 63461-07-04 22:34 G 24899899.29 24899899.44 24899899.62 0.0088 0.0038

Uranus 63461-08-27 07:12 G 24899952.69 24899952.80 24899952.93 0.0137 0.0073

Neptune 63461-10-01 01:41 G 24899987.43 24899987.57 24899987.73 0.0088 0.0047

Uranus 63461-11-23 10:48 G 24900040.85 24900040.95 24900041.05 0.0137 0.0093

Neptune 63461-12-28 04:48 G 24900075.57 24900075.70 24900075.84 0.0088 0.0057

Uranus 63462-02-19 14:10 G 24900129.02 24900129.09 24900129.18 0.0137 0.0112

Neptune 63462-03-26 07:55 G 24900163.72 24900163.83 24900163.95 0.0088 0.0067

Earth 63462-05-15 17:17 G 24900214.14 24900214.22 24900214.30 0.2687 0.1938

Moon 63462-05-15 17:31 G 24900214.15 24900214.23 24900214.31 0.2693 0.1982 *

Uranus 63462-05-18 17:46 G 24900217.21 24900217.24 24900217.28 0.0137 0.0132

Neptune 63462-06-22 10:34 G 24900251.88 24900251.94 24900252.04 0.0088 0.0078

Neptune 63462-09-18 13:55 G 24900340.08 24900340.08 24900340.09 0.0088 0.0088

Mars 63465-02-06 05:03 G 24901211.64 24901211.71 24901211.79 0.1905 0.1598

Jupiter 63467-01-17 00:00 G 24901921.33 24901921.50 24901921.67 0.0487 0.0003

Saturn 63468-03-28 03:07 G 24902357.54 24902357.63 24902357.74 0.0281 0.0228

Moon 63468-05-24 16:05 G 24902415.14 24902415.17 24902415.20 0.2676 0.2578

Earth 63468-05-24 16:05 G 24902415.16 24902415.17 24902415.19 0.2682 0.2658 *

Saturn 63468-06-24 22:05 G 24902446.25 24902446.42 24902446.59 0.0280 0.0050

Saturn 63468-09-21 17:03 G 24902535.07 24902535.21 24902535.37 0.0280 0.0131

Mars 63469-10-29 18:15 G 24902938.18 24902938.26 24902938.33 0.1619 0.1322

Jupiter 63472-09-23 03:07 G 24903997.50 24903997.63 24903997.75 0.0542 0.0227

Jupiter 63472-12-21 13:55 G 24904087.08 24904087.08 24904087.09 0.0540 0.0539

Mars 63474-06-29 06:15 G 24904641.62 24904641.76 24904641.90 0.1906 0.0079

Earth 63475-05-18 12:29 G 24904964.91 24904965.02 24904965.13 0.2686 0.0692

Moon 63475-05-18 13:12 G 24904964.94 24904965.05 24904965.16 0.2690 0.0585 *

Earth 63477-11-16 20:39 G 24905878.31 24905878.36 24905878.41 0.2645 0.2467

Moon 63477-11-16 22:05 G 24905878.35 24905878.42 24905878.48 0.2647 0.2313 *

Jupiter 63478-11-05 00:15 G 24906231.35 24906231.51 24906231.67 0.0486 0.0176

Mars 63479-03-22 03:36 G 24906368.52 24906368.65 24906368.77 0.1618 0.0552

Pluto 63482-05-10 18:29 G 24907514.25 24907514.27 24907514.33 0.0065 0.0064

Pluto 63482-08-06 19:27 G 24907602.23 24907602.31 24907602.40 0.0065 0.0053

Pluto 63482-11-02 20:10 G 24907690.23 24907690.34 24907690.46 0.0066 0.0042

Pluto 63483-01-29 20:53 G 24907778.24 24907778.37 24907778.50 0.0066 0.0031

Pluto 63483-04-27 21:22 G 24907866.26 24907866.39 24907866.54 0.0066 0.0021

Saturn 63483-07-24 21:07 G 24907954.26 24907954.38 24907954.50 0.0278 0.0143

Pluto 63483-07-24 22:05 G 24907954.28 24907954.42 24907954.57 0.0066 0.0010 *

Pluto 63483-10-20 23:03 G 24908042.31 24908042.46 24908042.60 0.0066 0.0002

Saturn 63483-10-21 09:51 G 24908042.77 24908042.91 24908043.06 0.0278 0.0010

Mars 63483-11-19 08:10 G 24908071.78 24908071.84 24908071.90 0.1908 0.1680

Pluto 63484-01-16 23:31 G 24908130.34 24908130.48 24908130.63 0.0066 0.0012

Saturn 63484-01-17 22:34 G 24908131.32 24908131.44 24908131.56 0.0279 0.0147

Pluto 63484-04-14 00:00 G 24908218.37 24908218.50 24908218.65 0.0066 0.0023

Pluto 63484-07-11 00:58 G 24908306.41 24908306.54 24908306.66 0.0066 0.0034

Jupiter 63484-07-12 06:00 G 24908307.66 24908307.75 24908307.83 0.0543 0.0417

Pluto 63484-10-07 01:27 G 24908394.46 24908394.56 24908394.67 0.0066 0.0045

Jupiter 63484-10-09 17:17 G 24908397.13 24908397.22 24908397.32 0.0541 0.0362

Pluto 63485-01-03 02:10 G 24908482.52 24908482.59 24908482.67 0.0066 0.0056

Earth 63488-05-20 07:41 G 24909715.70 24909715.82 24909715.93 0.2685 0.0534

Moon 63488-05-20 08:24 G 24909715.74 24909715.85 24909715.96 0.2683 0.0598 *

Mars 63488-08-11 12:43 G 24909798.90 24909799.03 24909799.16 0.1617 0.0235

Jupiter 63490-08-24 00:00 G 24910541.39 24910541.50 24910541.62 0.0486 0.0356

Earth 63490-11-19 23:03 G 24910629.32 24910629.46 24910629.60 0.2647 0.0654

Moon 63490-11-20 00:15 G 24910629.37 24910629.51 24910629.65 0.2643 0.0515 *

Jupiter 63490-11-21 22:48 G 24910631.34 24910631.45 24910631.56 0.0487 0.0371

Venus 63493-03-15 06:00 G 24911475.69 24911475.75 24911475.81 0.3683 0.2914

Venus 63494-09-29 03:36 G 24912038.61 24912038.65 24912038.68 0.3688 0.3552

Jupiter 63496-07-28 20:53 G 24912707.25 24912707.37 24912707.50 0.0541 0.0184

Saturn 63497-11-11 19:55 G 24913178.18 24913178.33 24913178.48 0.0281 0.0119

Mars 63498-01-01 21:51 G 24913229.30 24913229.41 24913229.51 0.1616 0.1033

Saturn 63498-02-08 14:53 G 24913266.96 24913267.12 24913267.29 0.0280 0.0060

Saturn 63498-05-08 10:05 G 24913355.84 24913355.92 24913356.01 0.0280 0.0242

Venus 63498-09-28 22:19 G 24913499.33 24913499.43 24913499.54 0.3683 0.0143

Uranus 63499-10-19 08:24 G 24913884.83 24913884.85 24913884.89 0.0142 0.0140

Uranus 63500-01-15 15:07 G 24913973.04 24913973.13 24913973.25 0.0142 0.0112

Uranus 63500-04-13 22:05 G 24914061.29 24914061.42 24914061.57 0.0142 0.0084

Venus 63500-04-15 07:41 G 24914062.73 24914062.82 24914062.90 0.3689 0.2961

Uranus 63500-07-11 05:17 G 24914149.55 24914149.72 24914149.88 0.0141 0.0055

Uranus 63500-10-07 12:00 G 24914237.83 24914238.00 24914238.18 0.0141 0.0027

Uranus 63501-01-03 19:12 G 24914326.12 24914326.30 24914326.48 0.0141 0.0003

Uranus 63501-04-02 02:10 G 24914414.42 24914414.59 24914414.77 0.0141 0.0032

Earth 63501-05-24 02:24 G 24914466.52 24914466.60 24914466.69 0.2684 0.1719

Moon 63501-05-24 02:53 G 24914466.54 24914466.62 24914466.71 0.2679 0.1736 *

Uranus 63501-06-29 09:07 G 24914502.72 24914502.88 24914503.05 0.0141 0.0061

Uranus 63501-09-25 16:05 G 24914591.04 24914591.17 24914591.32 0.0141 0.0090

Uranus 63501-12-22 23:17 G 24914679.39 24914679.47 24914679.58 0.0141 0.0119

Jupiter 63502-09-10 22:48 G 24914941.29 24914941.45 24914941.61 0.0487 0.0191

Earth 63503-11-24 02:10 G 24915380.46 24915380.59 24915380.72 0.2648 0.1248

Moon 63503-11-24 02:39 G 24915380.48 24915380.61 24915380.75 0.2642 0.1226 *

Venus 63504-04-14 14:39 G 24915523.03 24915523.11 24915523.18 0.3682 0.2583

Mars 63504-08-08 05:17 G 24915638.67 24915638.72 24915638.77 0.1905 0.1775

Earth 63508-05-16 22:19 G 24917016.34 24917016.43 24917016.52 0.2687 0.1706

Moon 63508-05-16 22:34 G 24917016.35 24917016.44 24917016.54 0.2693 0.1602 *

Jupiter 63508-05-18 00:00 G 24917017.36 24917017.50 24917017.63 0.0541 0.0014

Mars 63509-04-30 18:29 G 24917365.21 24917365.27 24917365.32 0.1619 0.1452

Saturn 63512-12-11 21:22 G 24918686.30 24918686.39 24918686.50 0.0278 0.0200

Saturn 63513-03-10 10:19 G 24918774.80 24918774.93 24918775.07 0.0279 0.0054

Saturn 63513-06-06 23:17 G 24918863.33 24918863.47 24918863.60 0.0279 0.0093

Saturn 63513-09-03 11:46 G 24918951.92 24918951.99 24918952.06 0.0280 0.0236

Mars 63513-12-29 06:43 G 24919068.64 24919068.78 24919068.92 0.1906 0.0114

Jupiter 63514-06-29 22:48 G 24919251.28 24919251.45 24919251.62 0.0487 0.0012

Mars 63518-09-21 03:36 G 24920795.53 24920795.65 24920795.77 0.1618 0.0678

Jupiter 63520-03-06 02:39 G 24921327.48 24921327.61 24921327.73 0.0542 0.0201

Earth 63521-05-19 17:31 G 24921767.12 24921767.23 24921767.34 0.2686 0.0458

Moon 63521-05-19 18:15 G 24921767.15 24921767.26 24921767.37 0.2689 0.0438 *

Mars 63523-05-21 08:24 G 24922498.77 24922498.85 24922498.93 0.1907 0.1503

Earth 63523-11-19 02:39 G 24922680.53 24922680.61 24922680.69 0.2645 0.2134

Moon 63523-11-19 04:05 G 24922680.58 24922680.67 24922680.76 0.2646 0.2049 *

Jupiter 63526-04-17 23:03 G 24923561.30 24923561.46 24923561.62 0.0486 0.0163

Saturn 63527-04-01 19:55 G 24923910.20 24923910.33 24923910.47 0.0281 0.0170

Saturn 63527-06-29 14:53 G 24923998.95 24923999.12 24923999.29 0.0280 0.0011

Saturn 63527-09-26 10:05 G 24924087.80 24924087.92 24924088.05 0.0280 0.0191

Mars 63528-02-11 12:58 G 24924225.90 24924226.04 24924226.17 0.1617 0.0116

Jupiter 63531-12-24 04:19 G 24925637.60 24925637.68 24925637.77 0.0543 0.0415

Jupiter 63532-03-22 15:51 G 24925727.06 24925727.16 24925727.26 0.0541 0.0363

Earth 63534-05-22 12:29 G 24926517.91 24926518.02 24926518.13 0.2685 0.0759

Moon 63534-05-22 13:27 G 24926517.95 24926518.06 24926518.17 0.2682 0.0876 *

Earth 63536-11-21 05:17 G 24927431.57 24927431.72 24927431.86 0.2647 0.0315

Moon 63536-11-21 06:15 G 24927431.61 24927431.76 24927431.91 0.2642 0.0197 *

Mars 63537-07-03 21:51 G 24927656.30 24927656.41 24927656.52 0.1616 0.0902

Jupiter 63538-02-03 23:17 G 24927871.35 24927871.47 24927871.60 0.0486 0.0335

Jupiter 63538-05-04 21:51 G 24927961.32 24927961.41 24927961.52 0.0487 0.0393

Neptune 63539-06-12 09:36 G 24928364.88 24928364.90 24928364.92 0.0089 0.0088

Neptune 63539-09-08 11:03 G 24928452.91 24928452.96 24928453.03 0.0089 0.0080

Neptune 63539-12-05 12:29 G 24928540.95 24928541.02 24928541.12 0.0089 0.0072

Neptune 63540-03-02 14:10 G 24928629.00 24928629.09 24928629.20 0.0089 0.0063

Neptune 63540-05-29 16:05 G 24928717.06 24928717.17 24928717.28 0.0089 0.0055

Neptune 63540-08-25 17:31 G 24928805.12 24928805.23 24928805.36 0.0089 0.0047

Neptune 63540-11-21 19:12 G 24928893.18 24928893.30 24928893.43 0.0089 0.0038

Neptune 63541-02-17 20:39 G 24928981.24 24928981.36 24928981.50 0.0089 0.0031

Neptune 63541-05-16 22:19 G 24929069.30 24929069.43 24929069.57 0.0089 0.0022

Neptune 63541-08-13 00:00 G 24929157.36 24929157.50 24929157.64 0.0089 0.0014

Neptune 63541-11-09 01:27 G 24929245.43 24929245.56 24929245.71 0.0089 0.0007

Neptune 63542-02-05 03:07 G 24929333.49 24929333.63 24929333.77 0.0089 0.0003

Saturn 63542-05-01 00:15 G 24929418.44 24929418.51 24929418.59 0.0278 0.0232

Neptune 63542-05-04 04:34 G 24929421.56 24929421.69 24929421.83 0.0089 0.0011

Saturn 63542-07-28 13:12 G 24929506.92 24929507.05 24929507.19 0.0278 0.0085

Neptune 63542-07-31 06:15 G 24929509.62 24929509.76 24929509.90 0.0089 0.0019

Saturn 63542-10-25 02:10 G 24929595.45 24929595.59 24929595.72 0.0278 0.0060

Neptune 63542-10-27 07:41 G 24929597.69 24929597.82 24929597.96 0.0089 0.0027

Saturn 63543-01-21 14:39 G 24929684.02 24929684.11 24929684.20 0.0279 0.0203

Neptune 63543-01-23 09:07 G 24929685.76 24929685.88 24929686.02 0.0089 0.0035

Uranus 63543-04-20 02:53 G 24929772.57 24929772.62 24929772.70 0.0136 0.0121

Neptune 63543-04-21 10:34 G 24929773.83 24929773.94 24929774.07 0.0089 0.0044

Uranus 63543-07-17 06:43 G 24929860.69 24929860.78 24929860.88 0.0136 0.0100

Neptune 63543-07-18 12:15 G 24929861.90 24929862.01 24929862.13 0.0089 0.0051

Uranus 63543-10-13 10:19 G 24929948.82 24929948.93 24929949.05 0.0136 0.0080

Neptune 63543-10-14 13:55 G 24929949.98 24929950.08 24929950.18 0.0089 0.0059

Uranus 63544-01-09 13:55 G 24930036.96 24930037.08 24930037.21 0.0137 0.0060

Jupiter 63544-01-09 19:12 G 24930037.17 24930037.30 24930037.42 0.0542 0.0182 *

Neptune 63544-01-10 15:22 G 24930038.05 24930038.14 24930038.24 0.0089 0.0067

Uranus 63544-04-06 17:31 G 24930125.10 24930125.23 24930125.37 0.0137 0.0040

Neptune 63544-04-07 16:48 G 24930126.13 24930126.20 24930126.28 0.0089 0.0075

Uranus 63544-07-03 21:22 G 24930213.25 24930213.39 24930213.53 0.0137 0.0019

Neptune 63544-07-04 18:15 G 24930214.22 24930214.26 24930214.32 0.0089 0.0083

Uranus 63544-09-30 00:58 G 24930301.40 24930301.54 24930301.68 0.0137 0.0003

Uranus 63544-12-27 04:19 G 24930389.55 24930389.68 24930389.82 0.0137 0.0021

Uranus 63545-03-25 07:55 G 24930477.70 24930477.83 24930477.96 0.0137 0.0041

Uranus 63545-06-21 11:31 G 24930565.86 24930565.98 24930566.10 0.0137 0.0060

Uranus 63545-09-17 14:53 G 24930654.01 24930654.12 24930654.24 0.0137 0.0080

Uranus 63545-12-14 18:15 G 24930742.18 24930742.26 24930742.36 0.0137 0.0101

Uranus 63546-03-12 21:51 G 24930830.35 24930830.41 24930830.48 0.0137 0.0120

Earth 63547-05-25 07:27 G 24931268.73 24931268.81 24931268.89 0.2683 0.1937

Moon 63547-05-25 07:41 G 24931268.74 24931268.82 24931268.90 0.2677 0.1964 *

Mars 63548-10-29 18:29 G 24931792.24 24931792.27 24931792.30 0.1619 0.1575

Venus 63549-10-21 03:36 G 24932148.56 24932148.65 24932148.74 0.3683 0.1862

Earth 63549-11-24 08:10 G 24932182.73 24932182.84 24932182.96 0.2648 0.1595

Moon 63549-11-24 08:39 G 24932182.74 24932182.86 24932182.97 0.2642 0.1675 *

Jupiter 63550-02-20 21:22 G 24932271.24 24932271.39 24932271.55 0.0487 0.0203

Venus 63551-05-07 04:05 G 24932711.54 24932711.67 24932711.81 0.3688 0.1366

Mars 63553-06-29 06:58 G 24933495.65 24933495.79 24933495.93 0.1906 0.0305

Earth 63554-05-18 03:22 G 24933818.54 24933818.64 24933818.74 0.2687 0.1466

Moon 63554-05-18 03:36 G 24933818.56 24933818.65 24933818.75 0.2693 0.1504 *

Venus 63555-05-06 19:55 G 24934172.23 24934172.33 24934172.43 0.3682 0.0904

Jupiter 63555-10-28 22:34 G 24934347.30 24934347.44 24934347.57 0.0542 0.0004

Saturn 63556-08-18 18:15 G 24934642.18 24934642.26 24934642.36 0.0281 0.0234

Saturn 63556-11-15 13:12 G 24934730.88 24934731.05 24934731.21 0.0281 0.0057

Saturn 63557-02-12 08:10 G 24934819.69 24934819.84 24934820.00 0.0280 0.0123

Mars 63558-03-22 03:51 G 24935222.55 24935222.66 24935222.77 0.1618 0.0809

Venus 63560-11-19 12:15 G 24936195.99 24936196.01 24936196.03 0.3681 0.3596

Jupiter 63561-12-09 21:36 G 24936581.23 24936581.40 24936581.57 0.0487 0.0027

Mars 63562-11-19 08:39 G 24936925.76 24936925.86 24936925.96 0.1907 0.1327

Earth 63567-05-20 22:34 G 24938569.32 24938569.44 24938569.55 0.2686 0.0234

Moon 63567-05-20 23:17 G 24938569.35 24938569.47 24938569.59 0.2687 0.0075 *

Mars 63567-08-12 12:58 G 24938652.91 24938653.04 24938653.17 0.1617 0.0034

Jupiter 63567-08-17 01:27 G 24938657.44 24938657.56 24938657.69 0.0542 0.0188

Earth 63569-11-19 08:39 G 24939482.75 24939482.86 24939482.96 0.2646 0.1811

Moon 63569-11-19 09:51 G 24939482.80 24939482.91 24939483.02 0.2645 0.1609 *

Pluto 63570-05-12 01:12 G 24939656.52 24939656.55 24939656.64 0.0078 0.0074

Pluto 63570-08-08 03:51 G 24939744.53 24939744.66 24939744.79 0.0078 0.0051

Pluto 63570-11-04 05:46 G 24939832.58 24939832.74 24939832.90 0.0078 0.0030

Pluto 63571-01-31 07:41 G 24939920.65 24939920.82 24939920.99 0.0078 0.0009

Pluto 63571-04-29 09:36 G 24940008.73 24940008.90 24940009.08 0.0078 0.0012

Pluto 63571-07-26 11:31 G 24940096.83 24940096.98 24940097.14 0.0078 0.0033

Pluto 63571-10-22 13:27 G 24940184.95 24940185.06 24940185.19 0.0077 0.0054

Saturn 63571-12-15 13:41 G 24940238.95 24940239.07 24940239.20 0.0278 0.0141

Pluto 63572-01-18 15:07 G 24940273.11 24940273.13 24940273.20 0.0077 0.0075

Saturn 63572-03-13 02:39 G 24940327.47 24940327.61 24940327.75 0.0279 0.0005

Saturn 63572-06-09 15:22 G 24940416.02 24940416.14 24940416.26 0.0279 0.0149

Jupiter 63573-09-27 21:36 G 24940891.24 24940891.40 24940891.56 0.0487 0.0152

Mars 63577-01-01 22:05 G 24942083.30 24942083.42 24942083.53 0.1616 0.0770

Jupiter 63579-06-05 04:05 G 24942967.58 24942967.67 24942967.76 0.0542 0.0387

Jupiter 63579-09-02 15:22 G 24943057.05 24943057.14 24943057.23 0.0540 0.0388

Earth 63580-05-22 17:31 G 24943320.12 24943320.23 24943320.34 0.2684 0.0979

Moon 63580-05-22 18:15 G 24943320.16 24943320.26 24943320.37 0.2682 0.1018 *

Earth 63582-11-22 11:17 G 24944233.82 24944233.97 24944234.11 0.2647 0.0040

Moon 63582-11-22 12:15 G 24944233.87 24944234.01 24944234.16 0.2642 0.0134 *

Uranus 63583-11-09 15:22 G 24944586.09 24944586.14 24944586.21 0.0142 0.0133

Uranus 63584-02-05 22:05 G 24944674.32 24944674.42 24944674.55 0.0142 0.0105

Uranus 63584-05-04 05:17 G 24944762.57 24944762.72 24944762.87 0.0142 0.0076

Uranus 63584-07-31 12:15 G 24944850.84 24944851.01 24944851.18 0.0141 0.0047

Uranus 63584-10-27 19:12 G 24944939.12 24944939.30 24944939.48 0.0141 0.0019

Uranus 63585-01-24 02:10 G 24945027.41 24945027.59 24945027.77 0.0141 0.0010

Uranus 63585-04-22 09:07 G 24945115.71 24945115.88 24945116.06 0.0141 0.0039

Jupiter 63585-07-16 22:05 G 24945201.30 24945201.42 24945201.55 0.0486 0.0323

Uranus 63585-07-19 16:05 G 24945204.02 24945204.17 24945204.34 0.0141 0.0069

Jupiter 63585-10-14 20:39 G 24945291.27 24945291.36 24945291.46 0.0487 0.0405

Uranus 63585-10-15 23:17 G 24945292.35 24945292.47 24945292.61 0.0141 0.0097

Uranus 63586-01-12 06:15 G 24945380.70 24945380.76 24945380.85 0.0141 0.0127

Saturn 63586-04-04 12:58 G 24945462.89 24945463.04 24945463.20 0.0281 0.0110

Mars 63586-05-25 06:58 G 24945513.76 24945513.79 24945513.82 0.1616 0.1576

Saturn 63586-07-02 07:55 G 24945551.67 24945551.83 24945552.00 0.0280 0.0069

Saturn 63586-09-29 03:07 G 24945640.56 24945640.63 24945640.71 0.0280 0.0252

Earth 63587-05-16 12:58 G 24945870.00 24945870.04 24945870.08 0.2688 0.2497

Moon 63587-05-16 12:58 G 24945870.01 24945870.04 24945870.08 0.2695 0.2533 *

Jupiter 63591-06-21 17:31 G 24947367.11 24947367.23 24947367.36 0.0541 0.0183

Mars 63592-12-28 07:12 G 24947922.66 24947922.80 24947922.93 0.1906 0.0465

Earth 63593-05-25 12:15 G 24948070.95 24948071.01 24948071.08 0.2683 0.2160

Moon 63593-05-25 12:29 G 24948070.96 24948071.02 24948071.09 0.2676 0.2192 *

Moon 63595-11-25 14:24 G 24948985.00 24948985.10 24948985.20 0.2642 0.1923

Earth 63595-11-25 14:24 G 24948985.00 24948985.10 24948985.20 0.2648 0.1952 *

Jupiter 63597-08-02 20:39 G 24949601.21 24949601.36 24949601.51 0.0487 0.0223

Mars 63597-09-20 03:51 G 24949649.56 24949649.66 24949649.77 0.1618 0.0934

Earth 63600-05-18 08:24 G 24950620.75 24950620.85 24950620.95 0.2687 0.1232

Moon 63600-05-18 08:53 G 24950620.76 24950620.87 24950620.97 0.2692 0.1127 *

Venus 63600-11-11 08:53 G 24950797.85 24950797.87 24950797.88 0.3683 0.3622

Saturn 63601-05-03 16:48 G 24950971.09 24950971.20 24950971.31 0.0278 0.0171

Saturn 63601-07-31 05:46 G 24951059.60 24951059.74 24951059.88 0.0278 0.0025

Saturn 63601-10-27 18:29 G 24951148.14 24951148.27 24951148.39 0.0279 0.0119

Saturn 63602-01-24 06:43 G 24951236.74 24951236.78 24951236.83 0.0279 0.0262

Mars 63602-05-20 08:53 G 24951352.76 24951352.87 24951352.98 0.1908 0.1154

Jupiter 63603-04-09 20:39 G 24951677.22 24951677.36 24951677.49 0.0542 0.0013

Venus 63606-05-28 01:12 G 24952821.45 24952821.55 24952821.66 0.3683 0.0818

Mars 63607-02-10 13:12 G 24953079.92 24953080.05 24953080.18 0.1617 0.0157

Venus 63607-12-12 04:48 G 24953384.56 24953384.70 24953384.84 0.3688 0.0881

Jupiter 63609-05-21 20:10 G 24953911.17 24953911.34 24953911.51 0.0486 0.0036

Venus 63611-12-11 17:31 G 24954845.14 24954845.23 24954845.32 0.3682 0.1927

Earth 63613-05-21 03:36 G 24955371.53 24955371.65 24955371.76 0.2685 0.0041

Moon 63613-05-21 04:19 G 24955371.57 24955371.68 24955371.80 0.2686 0.0073 *

Jupiter 63615-01-26 23:46 G 24955987.37 24955987.49 24955987.62 0.0542 0.0188

Saturn 63615-08-22 12:00 G 24956194.87 24956195.00 24956195.13 0.0281 0.0168

Saturn 63615-11-19 06:43 G 24956283.61 24956283.78 24956283.95 0.0281 0.0010

Earth 63615-11-20 14:39 G 24956284.99 24956285.11 24956285.23 0.2646 0.1469

Moon 63615-11-20 15:51 G 24956285.04 24956285.16 24956285.29 0.2643 0.1435 *

Saturn 63616-02-16 01:55 G 24956372.46 24956372.58 24956372.71 0.0280 0.0190

Mars 63616-07-02 22:19 G 24956510.30 24956510.43 24956510.55 0.1616 0.0636

Jupiter 63621-03-09 20:10 G 24958221.18 24958221.34 24958221.51 0.0486 0.0141

Neptune 63623-02-11 06:58 G 24958924.78 24958924.79 24958924.82 0.0088 0.0087

Neptune 63623-05-10 09:36 G 24959012.84 24959012.90 24959013.00 0.0088 0.0078

Neptune 63623-08-06 12:43 G 24959100.93 24959101.03 24959101.15 0.0088 0.0068

Neptune 63623-11-02 15:36 G 24959189.03 24959189.15 24959189.29 0.0088 0.0058

Neptune 63624-01-29 18:43 G 24959277.13 24959277.28 24959277.43 0.0088 0.0048

Neptune 63624-04-26 21:36 G 24959365.24 24959365.40 24959365.56 0.0088 0.0038

Neptune 63624-07-24 00:15 G 24959453.35 24959453.51 24959453.69 0.0088 0.0029

Neptune 63624-10-20 03:22 G 24959541.47 24959541.64 24959541.82 0.0088 0.0019

Neptune 63625-01-16 06:29 G 24959629.59 24959629.77 24959629.95 0.0088 0.0009

Neptune 63625-04-14 09:22 G 24959717.71 24959717.89 24959718.07 0.0088 0.0001

Neptune 63625-07-11 12:15 G 24959805.84 24959806.01 24959806.19 0.0088 0.0012

Neptune 63625-10-07 15:22 G 24959893.96 24959894.14 24959894.32 0.0088 0.0021

Mars 63625-11-23 07:12 G 24959940.74 24959940.80 24959940.85 0.1615 0.1443

Neptune 63626-01-03 18:15 G 24959982.09 24959982.26 24959982.43 0.0088 0.0031

Neptune 63626-04-01 21:22 G 24960070.23 24960070.39 24960070.55 0.0088 0.0041

Earth 63626-05-23 22:34 G 24960122.34 24960122.44 24960122.54 0.2684 0.1204

Moon 63626-05-23 23:03 G 24960122.36 24960122.46 24960122.56 0.2681 0.1328 *

Neptune 63626-06-29 00:00 G 24960158.37 24960158.50 24960158.66 0.0088 0.0052

Neptune 63626-09-25 02:53 G 24960246.51 24960246.62 24960246.77 0.0088 0.0062

Jupiter 63626-11-15 02:39 G 24960297.52 24960297.61 24960297.71 0.0542 0.0379

Neptune 63626-12-22 06:00 G 24960334.66 24960334.75 24960334.87 0.0088 0.0072

Uranus 63627-02-11 06:43 G 24960385.77 24960385.78 24960385.82 0.0136 0.0134

Jupiter 63627-02-12 14:10 G 24960387.00 24960387.09 24960387.18 0.0541 0.0397

Neptune 63627-03-20 09:07 G 24960422.83 24960422.88 24960422.95 0.0088 0.0082

Uranus 63627-05-10 10:19 G 24960473.87 24960473.93 24960474.02 0.0136 0.0114

Uranus 63627-08-06 14:10 G 24960562.00 24960562.09 24960562.20 0.0136 0.0093

Uranus 63627-11-02 17:46 G 24960650.13 24960650.24 24960650.37 0.0136 0.0073

Uranus 63628-01-29 21:36 G 24960738.27 24960738.40 24960738.53 0.0137 0.0052

Uranus 63628-04-27 01:12 G 24960826.42 24960826.55 24960826.69 0.0137 0.0032

Uranus 63628-07-24 04:48 G 24960914.56 24960914.70 24960914.84 0.0137 0.0012

Uranus 63628-10-20 08:24 G 24961002.71 24961002.85 24961002.99 0.0137 0.0008

Earth 63628-11-22 17:17 G 24961036.08 24961036.22 24961036.37 0.2647 0.0375

Moon 63628-11-22 18:15 G 24961036.11 24961036.26 24961036.40 0.2642 0.0508 *

Uranus 63629-01-16 12:00 G 24961090.86 24961091.00 24961091.13 0.0137 0.0028

Uranus 63629-04-14 15:22 G 24961179.02 24961179.14 24961179.27 0.0137 0.0048

Uranus 63629-07-11 18:43 G 24961267.17 24961267.28 24961267.41 0.0137 0.0068

Uranus 63629-10-07 22:19 G 24961355.33 24961355.43 24961355.54 0.0137 0.0088

Uranus 63630-01-04 01:41 G 24961443.50 24961443.57 24961443.67 0.0137 0.0108

Uranus 63630-04-02 05:31 G 24961531.68 24961531.73 24961531.78 0.0137 0.0127

Saturn 63630-09-20 17:17 G 24961703.14 24961703.22 24961703.30 0.0278 0.0227

Saturn 63630-12-18 06:15 G 24961791.63 24961791.76 24961791.90 0.0278 0.0080

Saturn 63631-03-16 18:58 G 24961880.16 24961880.29 24961880.43 0.0279 0.0066

Saturn 63631-06-13 07:41 G 24961968.73 24961968.82 24961968.91 0.0279 0.0209

Mars 63632-06-28 07:27 G 24962349.67 24962349.81 24962349.94 0.1906 0.0640

Jupiter 63632-12-26 20:24 G 24962531.23 24962531.35 24962531.48 0.0486 0.0316

Jupiter 63633-03-26 19:12 G 24962621.21 24962621.30 24962621.39 0.0488 0.0413

Moon 63633-05-16 18:15 G 24962672.19 24962672.26 24962672.32 0.2695 0.2251

Earth 63633-05-16 18:00 G 24962672.19 24962672.25 24962672.31 0.2688 0.2256 *

Mars 63637-03-21 04:05 G 24964076.57 24964076.67 24964076.77 0.1618 0.1060

Jupiter 63638-12-01 17:03 G 24964697.09 24964697.21 24964697.33 0.0541 0.0207

Moon 63639-05-26 17:31 G 24964873.17 24964873.23 24964873.28 0.2676 0.2345

Earth 63639-05-26 17:17 G 24964873.17 24964873.22 24964873.27 0.2683 0.2374 *

Mars 63641-11-18 09:07 G 24965779.76 24965779.88 24965780.00 0.1907 0.0974

Moon 63641-11-25 20:10 G 24965787.27 24965787.34 24965787.42 0.2642 0.2265

Earth 63641-11-25 20:24 G 24965787.28 24965787.35 24965787.42 0.2648 0.2303 *

Jupiter 63644-10-14 21:07 G 24966841.37 24966841.38 24966841.39 0.0486 0.0483

Saturn 63645-01-08 11:46 G 24966926.89 24966926.99 24966927.09 0.0281 0.0222

Jupiter 63645-01-12 19:12 G 24966931.15 24966931.30 24966931.45 0.0487 0.0234

Saturn 63645-04-07 06:29 G 24967015.60 24967015.77 24967015.93 0.0281 0.0046

Saturn 63645-07-05 01:27 G 24967104.41 24967104.56 24967104.71 0.0280 0.0135

Earth 63646-05-19 13:27 G 24967422.95 24967423.06 24967423.17 0.2687 0.0999

Moon 63646-05-19 13:55 G 24967422.97 24967423.08 24967423.19 0.2691 0.0975 *

Mars 63646-08-11 13:12 G 24967506.92 24967507.05 24967507.18 0.1617 0.0288

Jupiter 63650-09-19 18:58 G 24969007.16 24969007.29 24969007.42 0.0542 0.0004

Mars 63656-01-01 22:19 G 24970937.31 24970937.43 24970937.56 0.1616 0.0506

Jupiter 63656-10-31 19:12 G 24971241.13 24971241.30 24971241.47 0.0486 0.0054

Venus 63657-06-18 06:29 G 24971470.70 24971470.77 24971470.85 0.3683 0.2559

Venus 63659-01-02 01:41 G 24972033.51 24972033.57 24972033.63 0.3687 0.3320

Earth 63659-05-22 08:39 G 24972173.74 24972173.86 24972173.97 0.2685 0.0244

Moon 63659-05-22 09:22 G 24972173.78 24972173.89 24972174.00 0.2686 0.0393 *

Saturn 63660-02-07 20:24 G 24972435.30 24972435.35 24972435.41 0.0278 0.0254

Saturn 63660-05-06 09:36 G 24972523.77 24972523.90 24972524.03 0.0278 0.0107

Saturn 63660-08-02 22:19 G 24972612.29 24972612.43 24972612.57 0.0278 0.0039

Saturn 63660-10-30 11:03 G 24972700.85 24972700.96 24972701.06 0.0279 0.0182

Earth 63661-11-20 20:39 G 24973087.23 24973087.36 24973087.49 0.2646 0.1139

Moon 63661-11-20 21:51 G 24973087.28 24973087.41 24973087.55 0.2643 0.0908 *

Jupiter 63662-07-08 21:51 G 24973317.28 24973317.41 24973317.53 0.0542 0.0196

Venus 63663-01-01 22:48 G 24973494.35 24973494.45 24973494.56 0.3682 0.0268

Venus 63664-07-18 05:31 G 24974057.66 24974057.73 24974057.80 0.3689 0.3157

Mars 63665-05-24 07:12 G 24974367.73 24974367.80 24974367.88 0.1616 0.1306

Uranus 63667-11-29 22:48 G 24975287.37 24975287.45 24975287.54 0.0142 0.0124

Uranus 63668-02-26 05:46 G 24975375.61 24975375.74 24975375.87 0.0142 0.0096

Uranus 63668-05-24 12:29 G 24975463.87 24975464.02 24975464.18 0.0142 0.0068

Venus 63668-07-17 15:07 G 24975518.07 24975518.13 24975518.19 0.3682 0.2944

Jupiter 63668-08-19 18:43 G 24975551.12 24975551.28 24975551.44 0.0486 0.0132

Uranus 63668-08-20 19:27 G 24975552.14 24975552.31 24975552.49 0.0141 0.0039

Uranus 63668-11-17 02:24 G 24975640.42 24975640.60 24975640.78 0.0141 0.0011

Uranus 63669-02-13 09:22 G 24975728.72 24975728.89 24975729.08 0.0141 0.0019

Uranus 63669-05-12 16:34 G 24975817.02 24975817.19 24975817.36 0.0141 0.0048

Uranus 63669-08-08 23:17 G 24975905.33 24975905.47 24975905.64 0.0141 0.0077

Uranus 63669-11-05 06:29 G 24975993.66 24975993.77 24975993.90 0.0141 0.0106

Uranus 63670-02-01 13:41 G 24976082.03 24976082.07 24976082.13 0.0141 0.0135

Mars 63671-12-28 07:55 G 24976776.70 24976776.83 24976776.95 0.1906 0.0841

Earth 63672-05-24 03:36 G 24976924.55 24976924.65 24976924.74 0.2684 0.1434

Moon 63672-05-24 04:05 G 24976924.57 24976924.67 24976924.76 0.2679 0.1416 *

Jupiter 63674-04-27 00:58 G 24977627.44 24977627.54 24977627.63 0.0543 0.0382

Saturn 63674-05-28 11:17 G 24977658.94 24977658.97 24977659.01 0.0281 0.0274

Jupiter 63674-07-25 12:29 G 24977716.93 24977717.02 24977717.11 0.0541 0.0396

Saturn 63674-08-25 06:00 G 24977747.59 24977747.75 24977747.91 0.0281 0.0098

Saturn 63674-11-22 00:58 G 24977836.38 24977836.54 24977836.70 0.0280 0.0080

Earth 63674-11-23 23:31 G 24977838.34 24977838.48 24977838.62 0.2647 0.0731

Moon 63674-11-24 00:00 G 24977838.36 24977838.50 24977838.65 0.2642 0.0727 *

Saturn 63675-02-18 19:55 G 24977925.28 24977925.33 24977925.40 0.0280 0.0262

Mars 63676-09-19 04:19 G 24978503.59 24978503.68 24978503.77 0.1618 0.1190

Moon 63679-05-17 23:17 G 24979474.39 24979474.47 24979474.54 0.2695 0.2008

Earth 63679-05-17 23:03 G 24979474.39 24979474.46 24979474.54 0.2688 0.2019 *

Jupiter 63680-06-07 18:58 G 24979861.16 24979861.29 24979861.42 0.0486 0.0306

Jupiter 63680-09-05 17:31 G 24979951.15 24979951.23 24979951.32 0.0487 0.0421

Mars 63681-05-19 09:22 G 24980206.76 24980206.89 24980207.02 0.1907 0.0804

Earth 63685-05-26 22:19 G 24981675.40 24981675.43 24981675.45 0.2683 0.2594

Moon 63685-05-26 22:19 G 24981675.42 24981675.43 24981675.44 0.2676 0.2639 *

Mars 63686-02-09 13:27 G 24981933.93 24981934.06 24981934.19 0.1617 0.0414

Jupiter 63686-05-13 15:36 G 24982027.03 24982027.15 24982027.28 0.0541 0.0213

Saturn 63689-09-23 10:05 G 24983255.81 24983255.92 24983256.04 0.0278 0.0161

Saturn 63689-12-20 23:03 G 24983344.32 24983344.46 24983344.60 0.0279 0.0015

Saturn 63690-03-19 11:46 G 24983432.87 24983432.99 24983433.12 0.0279 0.0129

Saturn 63690-06-16 00:15 G 24983521.48 24983521.51 24983521.54 0.0279 0.0271

Jupiter 63692-03-26 19:12 G 24984171.28 24984171.30 24984171.33 0.0486 0.0480

Earth 63692-05-19 18:29 G 24984225.16 24984225.27 24984225.38 0.2686 0.0764

Moon 63692-05-19 19:12 G 24984225.19 24984225.30 24984225.41 0.2690 0.0672 *

Jupiter 63692-06-24 17:17 G 24984261.07 24984261.22 24984261.37 0.0487 0.0238

Earth 63694-11-19 00:15 G 24985138.49 24985138.51 24985138.54 0.2645 0.2593

Moon 63694-11-19 01:41 G 24985138.51 24985138.57 24985138.62 0.2645 0.2410 *

Mars 63695-07-02 22:34 G 24985364.31 24985364.44 24985364.57 0.1616 0.0378

Jupiter 63698-03-01 18:29 G 24986337.13 24986337.27 24986337.40 0.0542 0.0021

Saturn 63704-01-13 05:31 G 24988479.60 24988479.73 24988479.88 0.0281 0.0153

Neptune 63704-03-09 08:39 G 24988535.83 24988535.86 24988535.91 0.0089 0.0085

Saturn 63704-04-11 00:29 G 24988568.35 24988568.52 24988568.69 0.0280 0.0025

Jupiter 63704-04-13 17:31 G 24988571.06 24988571.23 24988571.40 0.0487 0.0063

Neptune 63704-06-05 10:19 G 24988623.86 24988623.93 24988624.01 0.0089 0.0076

Saturn 63704-07-08 19:27 G 24988657.20 24988657.31 24988657.43 0.0280 0.0206

Neptune 63704-09-01 11:46 G 24988711.91 24988711.99 24988712.09 0.0089 0.0069

Mars 63704-11-23 07:27 G 24988794.72 24988794.81 24988794.90 0.1616 0.1175

Neptune 63704-11-28 13:41 G 24988799.97 24988800.07 24988800.17 0.0089 0.0060

Neptune 63705-02-24 15:07 G 24988888.02 24988888.13 24988888.25 0.0089 0.0052

Earth 63705-05-23 13:27 G 24988975.95 24988976.06 24988976.18 0.2685 0.0464

Moon 63705-05-23 14:24 G 24988975.98 24988976.10 24988976.21 0.2685 0.0493 *

Neptune 63705-05-23 16:48 G 24988976.08 24988976.20 24988976.33 0.0089 0.0043 *

Neptune 63705-08-19 18:15 G 24989064.14 24989064.26 24989064.40 0.0089 0.0036

Neptune 63705-11-15 19:55 G 24989152.20 24989152.33 24989152.47 0.0089 0.0027

Neptune 63706-02-11 21:36 G 24989240.27 24989240.40 24989240.54 0.0089 0.0019

Neptune 63706-05-10 23:17 G 24989328.33 24989328.47 24989328.61 0.0089 0.0011

Neptune 63706-08-07 00:43 G 24989416.39 24989416.53 24989416.67 0.0089 0.0003

Neptune 63706-11-03 02:24 G 24989504.46 24989504.60 24989504.74 0.0089 0.0006

Neptune 63707-01-30 03:51 G 24989592.53 24989592.66 24989592.80 0.0089 0.0014

Neptune 63707-04-28 05:31 G 24989680.59 24989680.73 24989680.86 0.0089 0.0022

Neptune 63707-07-25 06:58 G 24989768.66 24989768.79 24989768.92 0.0089 0.0030

Neptune 63707-10-21 08:39 G 24989856.73 24989856.86 24989856.98 0.0089 0.0038

Earth 63707-11-23 02:39 G 24989889.47 24989889.61 24989889.75 0.2646 0.0795

Moon 63707-11-23 04:05 G 24989889.53 24989889.67 24989889.81 0.2643 0.0764 *

Neptune 63708-01-17 10:05 G 24989944.80 24989944.92 24989945.04 0.0089 0.0046

Neptune 63708-04-14 11:31 G 24990032.88 24990032.98 24990033.10 0.0089 0.0054

Neptune 63708-07-11 13:12 G 24990120.95 24990121.05 24990121.15 0.0089 0.0062

Neptune 63708-10-07 14:39 G 24990209.03 24990209.11 24990209.20 0.0089 0.0069

Neptune 63709-01-03 16:05 G 24990297.11 24990297.17 24990297.24 0.0089 0.0077

Neptune 63709-04-01 17:31 G 24990385.20 24990385.23 24990385.28 0.0089 0.0085

Jupiter 63709-12-19 20:10 G 24990647.21 24990647.34 24990647.47 0.0542 0.0196

Uranus 63711-03-04 14:39 G 24991087.06 24991087.11 24991087.16 0.0136 0.0126

Uranus 63711-05-31 18:15 G 24991175.17 24991175.26 24991175.35 0.0136 0.0105

Mars 63711-06-29 07:55 G 24991203.70 24991203.83 24991203.95 0.1906 0.0989

Uranus 63711-08-27 21:51 G 24991263.30 24991263.41 24991263.52 0.0136 0.0085

Uranus 63711-11-24 01:27 G 24991351.44 24991351.56 24991351.69 0.0137 0.0065

Uranus 63712-02-20 05:03 G 24991439.58 24991439.71 24991439.85 0.0137 0.0045

Uranus 63712-05-18 08:39 G 24991527.73 24991527.86 24991528.00 0.0137 0.0025

Uranus 63712-08-14 12:15 G 24991615.87 24991616.01 24991616.15 0.0137 0.0006

Uranus 63712-11-10 15:51 G 24991704.02 24991704.16 24991704.30 0.0137 0.0015

Uranus 63713-02-06 19:27 G 24991792.18 24991792.31 24991792.44 0.0137 0.0035

Uranus 63713-05-05 22:48 G 24991880.33 24991880.45 24991880.58 0.0137 0.0055

Uranus 63713-08-02 02:24 G 24991968.49 24991968.60 24991968.72 0.0137 0.0075

Uranus 63713-10-29 06:00 G 24992056.65 24992056.75 24992056.85 0.0137 0.0094

Venus 63714-01-24 04:05 G 24992143.58 24992143.67 24992143.77 0.3683 0.1506

Uranus 63714-01-25 09:07 G 24992144.82 24992144.88 24992144.97 0.0137 0.0115

Uranus 63714-04-23 12:43 G 24992233.01 24992233.03 24992233.07 0.0137 0.0134

Venus 63715-08-10 02:10 G 24992706.45 24992706.59 24992706.72 0.3688 0.1144

Jupiter 63716-01-31 17:46 G 24992881.07 24992881.24 24992881.40 0.0486 0.0116

Mars 63716-03-21 04:19 G 24992930.61 24992930.68 24992930.76 0.1618 0.1314

Earth 63718-05-26 08:24 G 24993726.76 24993726.85 24993726.94 0.2684 0.1647

Moon 63718-05-26 08:53 G 24993726.78 24993726.87 24993726.95 0.2678 0.1759 *

Saturn 63719-02-11 13:41 G 24993987.96 24993988.07 24993988.17 0.0278 0.0186

Saturn 63719-05-11 02:39 G 24994076.47 24994076.61 24994076.75 0.0278 0.0041

Saturn 63719-08-07 15:22 G 24994165.01 24994165.14 24994165.27 0.0279 0.0105

Venus 63719-08-09 20:24 G 24994167.26 24994167.35 24994167.45 0.3682 0.1272

Saturn 63719-11-04 03:51 G 24994253.60 24994253.66 24994253.72 0.0279 0.0247

Mars 63720-11-18 09:36 G 24994633.77 24994633.90 24994634.03 0.1908 0.0625

Earth 63720-11-25 05:31 G 24994640.60 24994640.73 24994640.86 0.2647 0.1073

Moon 63720-11-25 05:46 G 24994640.61 24994640.74 24994640.88 0.2641 0.1199 *

Jupiter 63721-10-07 22:48 G 24994957.36 24994957.45 24994957.54 0.0543 0.0393

Jupiter 63722-01-05 10:19 G 24995046.84 24995046.93 24995047.02 0.0541 0.0386

Earth 63725-05-19 04:05 G 24996276.59 24996276.67 24996276.76 0.2687 0.1779

Moon 63725-05-19 04:19 G 24996276.60 24996276.68 24996276.77 0.2694 0.1789 *

Mars 63725-08-11 13:41 G 24996360.94 24996361.07 24996361.19 0.1617 0.0542

Jupiter 63727-11-19 17:17 G 24997191.09 24997191.22 24997191.35 0.0486 0.0301

Jupiter 63728-02-17 15:36 G 24997281.08 24997281.15 24997281.24 0.0487 0.0426

Pluto 63730-12-01 01:55 G 24998298.51 24998298.58 24998298.66 0.0065 0.0056

Pluto 63731-02-27 02:53 G 24998386.51 24998386.62 24998386.72 0.0065 0.0045

Pluto 63731-05-26 03:07 G 24998474.52 24998474.63 24998474.77 0.0066 0.0035

Pluto 63731-08-22 03:51 G 24998562.53 24998562.66 24998562.81 0.0066 0.0024

Pluto 63731-11-18 04:48 G 24998650.55 24998650.70 24998650.84 0.0066 0.0013

Pluto 63732-02-14 05:17 G 24998738.58 24998738.72 24998738.87 0.0066 0.0003

Pluto 63732-05-12 06:00 G 24998826.61 24998826.75 24998826.90 0.0066 0.0009

Pluto 63732-08-08 06:43 G 24998914.64 24998914.78 24998914.92 0.0066 0.0019

Pluto 63732-11-04 07:12 G 24999002.68 24999002.80 24999002.94 0.0066 0.0031

Pluto 63733-01-31 07:55 G 24999090.72 24999090.83 24999090.95 0.0066 0.0041

Pluto 63733-04-29 08:24 G 24999178.78 24999178.85 24999178.95 0.0066 0.0053

Saturn 63733-06-01 06:00 G 24999211.64 24999211.75 24999211.87 0.0281 0.0198

Pluto 63733-07-26 09:07 G 24999266.85 24999266.88 24999266.93 0.0066 0.0063

Saturn 63733-08-29 00:43 G 24999300.36 24999300.53 24999300.70 0.0281 0.0022

Jupiter 63733-10-24 13:41 G 24999356.95 24999357.07 24999357.19 0.0542 0.0207

Saturn 63733-11-25 19:41 G 24999389.18 24999389.32 24999389.46 0.0280 0.0158

Mars 63735-01-01 22:48 G 24999791.32 24999791.45 24999791.58 0.1616 0.0244

Earth 63738-05-21 23:31 G 25001027.36 25001027.48 25001027.59 0.2686 0.0536

Moon 63738-05-22 00:15 G 25001027.40 25001027.51 25001027.62 0.2689 0.0446 *

Jupiter 63739-09-07 17:31 G 25001501.20 25001501.23 25001501.27 0.0485 0.0473

Jupiter 63739-12-06 15:36 G 25001591.00 25001591.15 25001591.30 0.0487 0.0243

Earth 63740-11-20 06:15 G 25001940.69 25001940.76 25001940.83 0.2645 0.2270

Moon 63740-11-20 07:41 G 25001940.74 25001940.82 25001940.90 0.2644 0.2167 *

Mars 63744-05-24 07:41 G 25003221.72 25003221.82 25003221.92 0.1616 0.1041

Jupiter 63745-08-12 16:48 G 25003667.07 25003667.20 25003667.34 0.0542 0.0022

Saturn 63748-06-30 14:24 G 25004720.03 25004720.10 25004720.17 0.0278 0.0239

Saturn 63748-09-27 03:22 G 25004808.51 25004808.64 25004808.78 0.0278 0.0092

Saturn 63748-12-24 16:19 G 25004897.04 25004897.18 25004897.32 0.0279 0.0053

Saturn 63749-03-23 04:48 G 25004985.61 25004985.70 25004985.80 0.0279 0.0197

Mars 63750-12-28 08:10 G 25005630.73 25005630.84 25005630.95 0.1906 0.1179

Earth 63751-05-24 18:29 G 25005778.16 25005778.27 25005778.38 0.2685 0.0684

Moon 63751-05-24 19:12 G 25005778.19 25005778.30 25005778.41 0.2683 0.0802 *

Jupiter 63751-09-24 15:22 G 25005900.97 25005901.14 25005901.31 0.0487 0.0063

Uranus 63751-12-21 05:46 G 25005988.65 25005988.74 25005988.85 0.0142 0.0117

Uranus 63752-03-18 12:43 G 25006076.89 25006077.03 25006077.17 0.0142 0.0089

Uranus 63752-06-14 19:27 G 25006165.16 25006165.31 25006165.48 0.0142 0.0061

Uranus 63752-09-11 02:24 G 25006253.43 25006253.60 25006253.78 0.0141 0.0032

Uranus 63752-12-08 09:22 G 25006341.71 25006341.89 25006342.07 0.0141 0.0005

Uranus 63753-03-06 16:19 G 25006430.01 25006430.18 25006430.36 0.0141 0.0026

Uranus 63753-06-02 23:31 G 25006518.31 25006518.48 25006518.65 0.0141 0.0055

Uranus 63753-08-30 06:29 G 25006606.63 25006606.77 25006606.92 0.0141 0.0084

Earth 63753-11-23 08:39 G 25006691.72 25006691.86 25006692.01 0.2646 0.0463

Moon 63753-11-23 09:51 G 25006691.77 25006691.91 25006692.06 0.2643 0.0258 *

Uranus 63753-11-26 13:27 G 25006694.96 25006695.06 25006695.18 0.0141 0.0113

Mars 63755-09-20 04:34 G 25007357.63 25007357.69 25007357.75 0.1618 0.1436

Jupiter 63757-05-31 19:27 G 25007977.18 25007977.31 25007977.44 0.0542 0.0175

Mars 63760-05-19 09:51 G 25009060.77 25009060.91 25009061.04 0.1907 0.0455

Saturn 63762-10-19 05:31 G 25009943.67 25009943.73 25009943.81 0.0281 0.0253

Saturn 63763-01-16 00:15 G 25010032.35 25010032.51 25010032.67 0.0281 0.0077

Saturn 63763-04-14 19:12 G 25010121.14 25010121.30 25010121.46 0.0280 0.0102

Jupiter 63763-07-13 15:51 G 25010210.99 25010211.16 25010211.33 0.0486 0.0111

Earth 63764-05-26 13:27 G 25010528.98 25010529.06 25010529.14 0.2684 0.1873

Moon 63764-05-26 13:55 G 25010528.99 25010529.08 25010529.16 0.2678 0.1849 *

Mars 63765-02-09 13:41 G 25010787.95 25010788.07 25010788.19 0.1617 0.0670

Venus 63765-02-14 09:22 G 25010792.84 25010792.89 25010792.93 0.3684 0.3275

Earth 63766-11-26 11:46 G 25011442.86 25011442.99 25011443.11 0.2648 0.1431

Moon 63766-11-26 12:00 G 25011442.87 25011443.00 25011443.12 0.2641 0.1351 *

Jupiter 63769-03-19 21:07 G 25012287.29 25012287.38 25012287.47 0.0542 0.0394

Jupiter 63769-06-17 08:39 G 25012376.76 25012376.86 25012376.95 0.0541 0.0385

Venus 63770-08-31 01:41 G 25012816.47 25012816.57 25012816.68 0.3683 0.0484

Earth 63771-05-20 09:22 G 25013078.79 25013078.89 25013078.98 0.2687 0.1543

Moon 63771-05-20 09:36 G 25013078.81 25013078.90 25013079.00 0.2693 0.1450 *

Venus 63772-03-16 02:39 G 25013379.48 25013379.61 25013379.75 0.3688 0.1079

Mars 63774-07-02 22:48 G 25014218.32 25014218.45 25014218.58 0.1616 0.0116

Jupiter 63775-05-01 15:51 G 25014521.03 25014521.16 25014521.30 0.0486 0.0288

Jupiter 63775-07-30 14:24 G 25014611.04 25014611.10 25014611.18 0.0487 0.0441

Venus 63776-03-15 18:00 G 25014840.17 25014840.25 25014840.33 0.3682 0.2270

Saturn 63777-11-17 17:46 G 25015452.20 25015452.24 25015452.29 0.0278 0.0264

Saturn 63778-02-14 06:58 G 25015540.66 25015540.79 25015540.92 0.0278 0.0116

Saturn 63778-05-13 19:41 G 25015629.18 25015629.32 25015629.47 0.0279 0.0031

Saturn 63778-08-10 08:24 G 25015717.74 25015717.85 25015717.96 0.0279 0.0173

Jupiter 63781-04-05 11:31 G 25016686.85 25016686.98 25016687.10 0.0541 0.0195

Mars 63783-11-23 07:55 G 25017648.72 25017648.83 25017648.94 0.1616 0.0907

Earth 63784-05-22 04:34 G 25017829.57 25017829.69 25017829.80 0.2686 0.0304

Moon 63784-05-22 05:17 G 25017829.60 25017829.72 25017829.83 0.2689 0.0227 *

Earth 63786-11-21 12:15 G 25018742.91 25018743.01 25018743.11 0.2645 0.1938

Moon 63786-11-21 13:41 G 25018742.97 25018743.07 25018743.18 0.2644 0.1784 *

Jupiter 63787-02-17 15:36 G 25018831.12 25018831.15 25018831.20 0.0485 0.0471

Jupiter 63787-05-18 13:41 G 25018920.92 25018921.07 25018921.22 0.0487 0.0246

Neptune 63787-11-09 05:17 G 25019095.68 25019095.72 25019095.80 0.0088 0.0083

Neptune 63788-02-05 08:10 G 25019183.76 25019183.84 25019183.95 0.0088 0.0073

Neptune 63788-05-03 11:17 G 25019271.85 25019271.97 25019272.10 0.0088 0.0063

Neptune 63788-07-30 13:55 G 25019359.96 25019360.08 25019360.24 0.0088 0.0054

Neptune 63788-10-26 16:48 G 25019448.06 25019448.20 25019448.37 0.0088 0.0044

Neptune 63789-01-22 19:55 G 25019536.17 25019536.33 25019536.50 0.0088 0.0034

Neptune 63789-04-20 22:48 G 25019624.29 25019624.45 25019624.63 0.0088 0.0024

Neptune 63789-07-18 01:55 G 25019712.40 25019712.58 25019712.76 0.0088 0.0014

Neptune 63789-10-14 04:48 G 25019800.52 25019800.70 25019800.88 0.0088 0.0004

Neptune 63790-01-10 07:55 G 25019888.65 25019888.83 25019889.01 0.0088 0.0006

Neptune 63790-04-08 10:34 G 25019976.77 25019976.94 25019977.13 0.0088 0.0016

Mars 63790-06-28 08:39 G 25020057.76 25020057.86 25020057.95 0.1906 0.1365

Neptune 63790-07-05 13:41 G 25020064.90 25020065.07 25020065.25 0.0088 0.0026

Neptune 63790-10-01 16:34 G 25020153.03 25020153.19 25020153.36 0.0088 0.0036

Neptune 63790-12-28 19:27 G 25020241.17 25020241.31 25020241.48 0.0088 0.0047

Neptune 63791-03-26 22:34 G 25020329.31 25020329.44 25020329.59 0.0088 0.0056

Neptune 63791-06-23 01:41 G 25020417.46 25020417.57 25020417.69 0.0088 0.0066

Neptune 63791-09-19 04:19 G 25020505.61 25020505.68 25020505.79 0.0088 0.0077

Neptune 63791-12-16 07:27 G 25020593.80 25020593.81 25020593.85 0.0088 0.0087

Saturn 63792-06-04 01:12 G 25020764.40 25020764.55 25020764.71 0.0281 0.0117

Saturn 63792-08-31 20:10 G 25020853.17 25020853.34 25020853.51 0.0280 0.0061

Saturn 63792-11-28 15:07 G 25020942.05 25020942.13 25020942.22 0.0280 0.0242

Jupiter 63793-01-22 14:39 G 25020996.98 25020997.11 25020997.25 0.0542 0.0013

Mars 63795-03-21 04:48 G 25021784.67 25021784.70 25021784.73 0.1618 0.1566

Uranus 63795-03-24 21:51 G 25021788.35 25021788.41 25021788.48 0.0136 0.0119

Uranus 63795-06-21 01:41 G 25021876.47 25021876.57 25021876.67 0.0136 0.0099

Uranus 63795-09-17 05:17 G 25021964.61 25021964.72 25021964.84 0.0137 0.0079

Uranus 63795-12-14 08:53 G 25022052.75 25022052.87 25022053.00 0.0137 0.0058

Uranus 63796-03-11 12:29 G 25022140.89 25022141.02 25022141.16 0.0137 0.0038

Uranus 63796-06-07 16:05 G 25022229.03 25022229.17 25022229.31 0.0137 0.0018

Uranus 63796-09-03 19:41 G 25022317.18 25022317.32 25022317.46 0.0137 0.0002

Uranus 63796-11-30 23:17 G 25022405.33 25022405.47 25022405.61 0.0137 0.0022

Uranus 63797-02-27 02:39 G 25022493.49 25022493.61 25022493.75 0.0137 0.0042

Earth 63797-05-24 23:31 G 25022580.37 25022580.48 25022580.59 0.2685 0.0913

Moon 63797-05-25 00:15 G 25022580.40 25022580.51 25022580.61 0.2681 0.0975 *

Uranus 63797-05-26 06:15 G 25022581.64 25022581.76 25022581.89 0.0137 0.0062

Uranus 63797-08-22 09:51 G 25022669.80 25022669.91 25022670.02 0.0137 0.0081

Uranus 63797-11-18 13:12 G 25022757.96 25022758.05 25022758.15 0.0137 0.0101

Uranus 63798-02-14 16:48 G 25022846.14 25022846.20 25022846.26 0.0137 0.0120

Jupiter 63799-03-06 13:41 G 25023230.90 25023231.07 25023231.24 0.0486 0.0066

Mars 63799-11-18 10:05 G 25023487.78 25023487.92 25023488.06 0.1907 0.0279

Earth 63799-11-24 14:53 G 25023493.97 25023494.12 25023494.26 0.2646 0.0145

Moon 63799-11-24 15:36 G 25023494.01 25023494.15 25023494.30 0.2642 0.0119 *

Moon 63804-05-18 18:43 G 25025130.24 25025130.28 25025130.31 0.2695 0.2534

Earth 63804-05-18 18:58 G 25025130.25 25025130.29 25025130.32 0.2688 0.2575 *

Mars 63804-08-11 13:55 G 25025214.97 25025215.08 25025215.19 0.1617 0.0796

Jupiter 63804-11-11 17:46 G 25025307.11 25025307.24 25025307.37 0.0542 0.0177

Saturn 63807-07-05 07:41 G 25026272.71 25026272.82 25026272.94 0.0278 0.0167

Saturn 63807-10-01 20:53 G 25026361.23 25026361.37 25026361.51 0.0278 0.0021

Saturn 63807-12-29 09:36 G 25026449.77 25026449.90 25026450.02 0.0279 0.0124

Saturn 63808-03-26 22:05 G 25026538.38 25026538.42 25026538.46 0.0279 0.0266

Mars 63809-04-10 12:00 G 25026917.97 25026918.00 25026918.03 0.1908 0.1859

Earth 63810-05-28 18:29 G 25027331.20 25027331.27 25027331.34 0.2684 0.2094

Moon 63810-05-28 18:43 G 25027331.21 25027331.28 25027331.34 0.2678 0.2171 *

Jupiter 63810-12-24 13:41 G 25027540.90 25027541.07 25027541.23 0.0486 0.0115

Earth 63812-11-27 17:46 G 25028245.13 25028245.24 25028245.35 0.2648 0.1772

Moon 63812-11-27 17:46 G 25028245.14 25028245.24 25028245.35 0.2641 0.1883 *

Mars 63814-01-01 23:03 G 25028645.33 25028645.46 25028645.59 0.1616 0.0031

Jupiter 63816-08-30 20:10 G 25029617.25 25029617.34 25029617.44 0.0542 0.0376

Jupiter 63816-11-28 07:41 G 25029706.74 25029706.82 25029706.91 0.0541 0.0403

Earth 63817-05-21 14:10 G 25029880.99 25029881.09 25029881.20 0.2687 0.1308

Moon 63817-05-21 14:53 G 25029881.02 25029881.12 25029881.22 0.2692 0.1317 *

Pluto 63818-12-02 07:55 G 25030440.74 25030440.83 25030440.95 0.0078 0.0063

Pluto 63819-02-28 10:05 G 25030528.78 25030528.92 25030529.07 0.0078 0.0041

Pluto 63819-05-27 12:00 G 25030616.84 25030617.00 25030617.17 0.0078 0.0020

Pluto 63819-08-23 14:10 G 25030704.92 25030705.09 25030705.26 0.0078 0.0001

Pluto 63819-11-19 16:05 G 25030793.01 25030793.17 25030793.34 0.0078 0.0022

Pluto 63820-02-15 18:00 G 25030881.11 25030881.25 25030881.40 0.0077 0.0043

Pluto 63820-05-13 19:41 G 25030969.24 25030969.32 25030969.43 0.0077 0.0064

Venus 63821-09-22 06:58 G 25031465.71 25031465.79 25031465.88 0.3683 0.2212

Saturn 63821-10-23 00:43 G 25031496.41 25031496.53 25031496.67 0.0281 0.0172

Saturn 63822-01-19 19:41 G 25031585.15 25031585.32 25031585.49 0.0280 0.0006

Saturn 63822-04-18 14:39 G 25031673.99 25031674.11 25031674.24 0.0280 0.0185

Jupiter 63822-10-12 13:55 G 25031850.95 25031851.08 25031851.22 0.0486 0.0286

Jupiter 63823-01-10 12:29 G 25031940.95 25031941.02 25031941.09 0.0487 0.0443

Venus 63823-04-07 23:31 G 25032028.41 25032028.48 25032028.56 0.3688 0.3112

Mars 63823-05-25 07:55 G 25032075.72 25032075.83 25032075.95 0.1616 0.0778

Venus 63827-04-07 23:17 G 25033489.37 25033489.47 25033489.58 0.3682 0.0581

Jupiter 63828-09-16 09:51 G 25034016.78 25034016.91 25034017.03 0.0541 0.0193

Venus 63828-10-22 03:22 G 25034052.58 25034052.64 25034052.70 0.3688 0.3328

Mars 63829-12-28 08:39 G 25034484.78 25034484.86 25034484.94 0.1906 0.1523

Earth 63830-05-24 09:22 G 25034631.78 25034631.89 25034632.01 0.2686 0.0119

Moon 63830-05-24 10:19 G 25034631.81 25034631.93 25034632.04 0.2688 0.0103 *

Mars 63832-10-14 16:48 G 25035506.18 25035506.20 25035506.22 0.1615 0.1581

Venus 63832-10-21 15:36 G 25035513.11 25035513.15 25035513.20 0.3682 0.3292

Earth 63832-11-22 18:15 G 25035545.15 25035545.26 25035545.37 0.2645 0.1614

Moon 63832-11-22 19:41 G 25035545.20 25035545.32 25035545.44 0.2645 0.1475 *

Jupiter 63834-07-31 14:24 G 25036161.05 25036161.10 25036161.15 0.0486 0.0460

Jupiter 63834-10-29 12:15 G 25036250.87 25036251.01 25036251.16 0.0487 0.0258

Uranus 63835-10-15 06:15 G 25036601.73 25036601.76 25036601.82 0.0142 0.0137

Uranus 63836-01-11 12:58 G 25036689.94 25036690.04 25036690.17 0.0142 0.0109

Uranus 63836-04-08 19:55 G 25036778.19 25036778.33 25036778.49 0.0142 0.0080

Uranus 63836-07-06 02:53 G 25036866.46 25036866.62 25036866.79 0.0141 0.0052

Uranus 63836-10-02 09:51 G 25036954.74 25036954.91 25036955.09 0.0141 0.0023

Saturn 63836-11-21 11:17 G 25037004.87 25037004.97 25037005.07 0.0278 0.0191

Uranus 63836-12-29 16:48 G 25037043.02 25037043.20 25037043.38 0.0141 0.0006

Saturn 63837-02-18 00:15 G 25037093.37 25037093.51 25037093.65 0.0279 0.0045

Uranus 63837-03-27 23:46 G 25037131.32 25037131.49 25037131.67 0.0141 0.0034

Saturn 63837-05-17 13:12 G 25037181.92 25037182.05 25037182.18 0.0279 0.0101

Uranus 63837-06-24 06:43 G 25037219.62 25037219.78 25037219.95 0.0141 0.0063

Saturn 63837-08-14 01:41 G 25037270.51 25037270.57 25037270.64 0.0279 0.0243

Uranus 63837-09-20 13:41 G 25037307.94 25037308.07 25037308.22 0.0141 0.0092

Uranus 63837-12-17 20:53 G 25037396.29 25037396.37 25037396.47 0.0141 0.0121

Mars 63839-05-20 10:19 G 25037914.79 25037914.93 25037915.07 0.1908 0.0100

Jupiter 63840-07-05 12:29 G 25038326.88 25038327.02 25038327.15 0.0542 0.0011

Earth 63843-05-27 04:34 G 25039382.58 25039382.69 25039382.79 0.2685 0.1141

Moon 63843-05-27 05:17 G 25039382.61 25039382.72 25039382.82 0.2680 0.1208 *

Mars 63844-02-10 14:10 G 25039641.98 25039642.09 25039642.19 0.1617 0.0926

Earth 63845-11-25 20:53 G 25040296.22 25040296.37 25040296.51 0.2647 0.0227

Moon 63845-11-25 21:36 G 25040296.25 25040296.40 25040296.54 0.2641 0.0328 *

Jupiter 63846-08-17 11:31 G 25040560.81 25040560.98 25040561.15 0.0486 0.0065

Mars 63848-10-09 12:15 G 25041344.95 25041345.01 25041345.07 0.1908 0.1685

Earth 63850-05-20 00:00 G 25041932.44 25041932.50 25041932.55 0.2688 0.2334

Moon 63850-05-19 23:46 G 25041932.45 25041932.49 25041932.54 0.2695 0.2411 *

Saturn 63851-03-12 02:39 G 25042228.50 25042228.61 25042228.73 0.0281 0.0205

Saturn 63851-06-08 21:22 G 25042317.22 25042317.39 25042317.56 0.0281 0.0029

Saturn 63851-09-05 16:05 G 25042406.03 25042406.17 25042406.32 0.0280 0.0150

Jupiter 63852-04-23 15:22 G 25042637.02 25042637.14 25042637.27 0.0543 0.0192

Mars 63853-07-02 23:17 G 25043072.33 25043072.47 25043072.60 0.1616 0.0152

Moon 63856-05-28 23:31 G 25044133.42 25044133.48 25044133.54 0.2677 0.2295

Earth 63856-05-28 23:17 G 25044133.42 25044133.47 25044133.53 0.2683 0.2317 *

Jupiter 63858-06-05 11:31 G 25044870.82 25044870.98 25044871.15 0.0486 0.0114

Moon 63858-11-29 00:00 G 25045047.40 25045047.50 25045047.59 0.2641 0.2045

Earth 63858-11-28 23:46 G 25045047.41 25045047.49 25045047.58 0.2648 0.2132 *

Mars 63862-11-23 08:10 G 25046502.72 25046502.84 25046502.96 0.1615 0.0647

Earth 63863-05-22 19:12 G 25046683.20 25046683.30 25046683.41 0.2687 0.1076

Moon 63863-05-22 19:55 G 25046683.22 25046683.33 25046683.44 0.2692 0.0935 *

Jupiter 63864-02-10 18:15 G 25046947.17 25046947.26 25046947.36 0.0543 0.0381

Jupiter 63864-05-10 06:00 G 25047036.66 25047036.75 25047036.84 0.0541 0.0399

Saturn 63866-04-10 12:15 G 25047736.95 25047737.01 25047737.09 0.0278 0.0240

Saturn 63866-07-08 01:27 G 25047825.43 25047825.56 25047825.70 0.0278 0.0093

Saturn 63866-10-04 14:24 G 25047913.96 25047914.10 25047914.24 0.0279 0.0053

Saturn 63867-01-01 03:07 G 25048002.53 25048002.63 25048002.73 0.0279 0.0196

Neptune 63868-09-08 06:29 G 25048618.77 25048618.77 25048618.78 0.0089 0.0089

Neptune 63868-12-05 08:10 G 25048706.78 25048706.84 25048706.90 0.0089 0.0081

Neptune 63869-03-03 09:36 G 25048794.83 25048794.90 25048794.99 0.0089 0.0073

Neptune 63869-05-30 11:17 G 25048882.88 25048882.97 25048883.07 0.0089 0.0064

Mars 63869-06-28 08:53 G 25048911.81 25048911.87 25048911.93 0.1906 0.1703

Neptune 63869-08-26 12:43 G 25048970.93 25048971.03 25048971.15 0.0089 0.0057

Neptune 63869-11-22 14:39 G 25049058.99 25049059.11 25049059.23 0.0089 0.0048

Neptune 63870-02-18 16:19 G 25049147.05 25049147.18 25049147.30 0.0089 0.0040

Jupiter 63870-03-24 11:46 G 25049180.85 25049180.99 25049181.12 0.0486 0.0291

Neptune 63870-05-17 17:46 G 25049235.11 25049235.24 25049235.38 0.0089 0.0031

Jupiter 63870-06-22 09:51 G 25049270.84 25049270.91 25049270.99 0.0487 0.0437

Neptune 63870-08-13 19:27 G 25049323.18 25049323.31 25049323.45 0.0089 0.0023

Neptune 63870-11-09 20:53 G 25049411.24 25049411.37 25049411.52 0.0089 0.0016

Neptune 63871-02-05 22:34 G 25049499.30 25049499.44 25049499.58 0.0089 0.0007

Neptune 63871-05-05 00:15 G 25049587.37 25049587.51 25049587.65 0.0089 0.0001

Neptune 63871-08-01 01:41 G 25049675.43 25049675.57 25049675.71 0.0089 0.0010

Neptune 63871-10-28 03:22 G 25049763.50 25049763.64 25049763.78 0.0089 0.0017

Neptune 63872-01-24 04:48 G 25049851.57 25049851.70 25049851.84 0.0089 0.0026

Mars 63872-04-14 17:03 G 25049933.15 25049933.21 25049933.27 0.1615 0.1448

Neptune 63872-04-21 06:29 G 25049939.64 25049939.77 25049939.90 0.0089 0.0033

Neptune 63872-07-18 07:55 G 25050027.71 25050027.83 25050027.96 0.0089 0.0041

Neptune 63872-10-14 09:22 G 25050115.78 25050115.89 25050116.01 0.0089 0.0050

Neptune 63873-01-10 10:48 G 25050203.86 25050203.95 25050204.07 0.0089 0.0058

Neptune 63873-04-08 12:29 G 25050291.93 25050292.02 25050292.12 0.0089 0.0065

Neptune 63873-07-05 13:55 G 25050380.01 25050380.08 25050380.17 0.0089 0.0073

Neptune 63873-10-01 15:22 G 25050468.10 25050468.14 25050468.21 0.0089 0.0081

Neptune 63873-12-28 16:48 G 25050556.20 25050556.20 25050556.22 0.0089 0.0089

Jupiter 63876-02-27 08:53 G 25051346.74 25051346.87 25051346.99 0.0541 0.0209

Earth 63876-05-24 14:24 G 25051433.99 25051434.10 25051434.22 0.2686 0.0165

Moon 63876-05-24 15:07 G 25051434.02 25051434.13 25051434.25 0.2686 0.0212 *

Venus 63878-04-29 04:34 G 25052138.59 25052138.69 25052138.79 0.3683 0.1163

Mars 63878-11-18 10:34 G 25052341.80 25052341.94 25052342.08 0.1907 0.0075

Earth 63878-11-24 00:15 G 25052347.38 25052347.51 25052347.64 0.2645 0.1279

Moon 63878-11-24 01:27 G 25052347.43 25052347.56 25052347.69 0.2644 0.1188 *

Uranus 63879-01-17 01:41 G 25052401.54 25052401.57 25052401.60 0.0136 0.0132

Uranus 63879-04-15 05:17 G 25052489.65 25052489.72 25052489.80 0.0136 0.0112

Uranus 63879-07-12 09:07 G 25052577.78 25052577.88 25052577.98 0.0136 0.0092

Uranus 63879-10-08 12:43 G 25052665.91 25052666.03 25052666.15 0.0137 0.0072

Venus 63879-11-13 00:15 G 25052701.37 25052701.51 25052701.64 0.3688 0.0941

Uranus 63880-01-04 16:19 G 25052754.05 25052754.18 25052754.31 0.0137 0.0052

Uranus 63880-04-01 19:55 G 25052842.20 25052842.33 25052842.47 0.0137 0.0032

Uranus 63880-06-28 23:31 G 25052930.34 25052930.48 25052930.62 0.0137 0.0011

Saturn 63880-07-29 01:55 G 25052960.53 25052960.58 25052960.65 0.0281 0.0261

Uranus 63880-09-25 03:07 G 25053018.49 25053018.63 25053018.77 0.0137 0.0009

Saturn 63880-10-25 20:39 G 25053049.20 25053049.36 25053049.52 0.0281 0.0086

Uranus 63880-12-22 06:29 G 25053106.64 25053106.77 25053106.91 0.0137 0.0029

Saturn 63881-01-22 15:22 G 25053137.98 25053138.14 25053138.31 0.0280 0.0092

Uranus 63881-03-20 10:05 G 25053194.80 25053194.92 25053195.05 0.0137 0.0048

Saturn 63881-04-21 10:34 G 25053226.91 25053226.94 25053226.98 0.0280 0.0273

Uranus 63881-06-16 13:41 G 25053282.95 25053283.07 25053283.19 0.0137 0.0068

Uranus 63881-09-12 17:03 G 25053371.11 25053371.21 25053371.32 0.0137 0.0088

Uranus 63881-12-09 20:39 G 25053459.28 25053459.36 25053459.45 0.0137 0.0107

Jupiter 63882-01-10 12:15 G 25053490.96 25053491.01 25053491.06 0.0486 0.0460

Uranus 63882-03-08 00:00 G 25053547.46 25053547.50 25053547.56 0.0137 0.0127

Jupiter 63882-04-10 10:05 G 25053580.78 25053580.92 25053581.07 0.0487 0.0257

Mars 63883-08-11 14:10 G 25054068.99 25054069.09 25054069.19 0.1617 0.1048

Venus 63883-11-12 20:53 G 25054162.28 25054162.37 25054162.47 0.3682 0.1608

Jupiter 63887-12-16 10:48 G 25055656.81 25055656.95 25055657.08 0.0542 0.0012

Mars 63888-04-09 12:15 G 25055771.93 25055772.01 25055772.09 0.1908 0.1532

Earth 63889-05-27 09:22 G 25056184.80 25056184.89 25056184.99 0.2685 0.1363

Moon 63889-05-27 10:05 G 25056184.82 25056184.92 25056185.02 0.2680 0.1447 *

Earth 63891-11-27 02:53 G 25057098.48 25057098.62 25057098.76 0.2647 0.0562

Moon 63891-11-27 03:36 G 25057098.50 25057098.65 25057098.79 0.2640 0.0618 *

Mars 63892-12-31 23:17 G 25057499.34 25057499.47 25057499.60 0.1616 0.0273

Jupiter 63894-01-27 09:51 G 25057890.75 25057890.91 25057891.08 0.0487 0.0075

Saturn 63895-08-28 15:51 G 25058469.12 25058469.16 25058469.20 0.0278 0.0266

Saturn 63895-11-25 04:48 G 25058557.58 25058557.70 25058557.83 0.0279 0.0118

Saturn 63896-02-21 17:46 G 25058646.10 25058646.24 25058646.38 0.0279 0.0029

Earth 63896-05-20 05:03 G 25058734.64 25058734.71 25058734.78 0.2688 0.2094

Moon 63896-05-20 05:03 G 25058734.64 25058734.71 25058734.79 0.2694 0.2037 *

Saturn 63896-05-20 06:29 G 25058734.67 25058734.77 25058734.88 0.0279 0.0172 *

Jupiter 63899-10-04 13:12 G 25059966.92 25059967.05 25059967.17 0.0542 0.0203

Mars 63902-05-25 08:24 G 25060929.72 25060929.85 25060929.98 0.1616 0.0511

Moon 63902-05-31 04:19 G 25060935.64 25060935.68 25060935.71 0.2676 0.2524

Earth 63902-05-31 04:19 G 25060935.65 25060935.68 25060935.72 0.2683 0.2533 *

Moon 63904-11-30 05:31 G 25061849.69 25061849.73 25061849.78 0.2642 0.2488

Earth 63904-11-30 06:00 G 25061849.70 25061849.75 25061849.80 0.2648 0.2477 *

Jupiter 63905-11-16 09:22 G 25062200.72 25062200.89 25062201.05 0.0486 0.0116

Mars 63908-12-28 09:22 G 25063338.89 25063338.89 25063338.90 0.1906 0.1901

Earth 63909-05-24 00:15 G 25063485.40 25063485.51 25063485.62 0.2687 0.0838

Moon 63909-05-24 00:58 G 25063485.43 25063485.54 25063485.65 0.2692 0.0845 *

Saturn 63910-03-15 22:48 G 25063781.30 25063781.45 25063781.61 0.0281 0.0115

Saturn 63910-06-12 17:31 G 25063870.07 25063870.23 25063870.40 0.0280 0.0063

Saturn 63910-09-09 12:43 G 25063958.95 25063959.03 25063959.11 0.0280 0.0242

Jupiter 63911-07-24 15:51 G 25064277.07 25064277.16 25064277.26 0.0543 0.0398

Mars 63911-10-15 17:17 G 25064360.14 25064360.22 25064360.29 0.1615 0.1314

Jupiter 63911-10-22 03:36 G 25064366.56 25064366.65 25064366.74 0.0541 0.0385

Jupiter 63917-09-04 09:36 G 25066510.77 25066510.90 25066511.03 0.0486 0.0291

Jupiter 63917-12-03 07:55 G 25066600.75 25066600.83 25066600.90 0.0487 0.0434

Mars 63918-05-20 10:48 G 25066768.81 25066768.95 25066769.09 0.1907 0.0245

Uranus 63919-11-05 13:27 G 25067303.00 25067303.06 25067303.14 0.0142 0.0129

Uranus 63920-02-01 20:10 G 25067391.23 25067391.34 25067391.48 0.0142 0.0101

Uranus 63920-04-30 03:07 G 25067479.48 25067479.63 25067479.79 0.0142 0.0073

Uranus 63920-07-27 09:51 G 25067567.75 25067567.91 25067568.09 0.0141 0.0045

Uranus 63920-10-23 17:03 G 25067656.03 25067656.21 25067656.39 0.0141 0.0016

Uranus 63921-01-20 00:00 G 25067744.32 25067744.50 25067744.68 0.0141 0.0013

Uranus 63921-04-18 06:43 G 25067832.61 25067832.78 25067832.96 0.0141 0.0042

Uranus 63921-07-15 13:55 G 25067920.92 25067921.08 25067921.24 0.0141 0.0071

Uranus 63921-10-11 20:53 G 25068009.24 25068009.37 25068009.50 0.0141 0.0100

Uranus 63922-01-08 03:36 G 25068097.60 25068097.65 25068097.74 0.0141 0.0129

Earth 63922-05-26 19:27 G 25068236.20 25068236.31 25068236.42 0.2686 0.0387

Moon 63922-05-26 20:10 G 25068236.23 25068236.34 25068236.46 0.2684 0.0548 *

Mars 63923-02-10 14:24 G 25068496.01 25068496.10 25068496.19 0.1617 0.1175

Jupiter 63923-08-10 06:58 G 25068676.66 25068676.79 25068676.91 0.0542 0.0203

Earth 63924-11-25 06:15 G 25069149.62 25069149.76 25069149.89 0.2646 0.0948

Moon 63924-11-25 07:27 G 25069149.67 25069149.81 25069149.95 0.2642 0.0767 *

Saturn 63925-04-14 06:15 G 25069289.65 25069289.76 25069289.87 0.0278 0.0165

Saturn 63925-07-11 19:12 G 25069378.16 25069378.30 25069378.44 0.0278 0.0019

Saturn 63925-10-08 07:55 G 25069466.71 25069466.83 25069466.96 0.0279 0.0126

Saturn 63926-01-04 20:39 G 25069555.32 25069555.36 25069555.40 0.0279 0.0268

Mars 63927-10-10 12:29 G 25070198.93 25070199.02 25070199.12 0.1908 0.1352

Venus 63929-05-21 09:51 G 25070787.84 25070787.91 25070787.97 0.3684 0.2924

Jupiter 63929-06-23 09:51 G 25070820.87 25070820.91 25070820.95 0.0486 0.0466

Jupiter 63929-09-21 07:27 G 25070910.67 25070910.81 25070910.96 0.0487 0.0250

Mars 63932-07-02 23:31 G 25071926.35 25071926.48 25071926.61 0.1616 0.0401

Venus 63934-12-05 02:10 G 25072811.49 25072811.59 25072811.70 0.3683 0.0169

Jupiter 63935-05-29 09:51 G 25072986.77 25072986.91 25072987.04 0.0542 0.0018

Earth 63935-05-29 14:24 G 25072987.01 25072987.10 25072987.19 0.2684 0.1587 *

Moon 63935-05-29 15:07 G 25072987.03 25072987.13 25072987.22 0.2680 0.1610 *

Venus 63936-06-20 00:43 G 25073374.40 25073374.53 25073374.66 0.3688 0.1282

Earth 63937-11-28 08:53 G 25073900.73 25073900.87 25073901.01 0.2647 0.0909

Moon 63937-11-28 09:36 G 25073900.76 25073900.90 25073901.04 0.2641 0.0962 *

Saturn 63939-08-02 22:05 G 25074513.29 25074513.42 25074513.55 0.0281 0.0173

Saturn 63939-10-30 16:48 G 25074602.03 25074602.20 25074602.37 0.0280 0.0005

Saturn 63940-01-27 11:31 G 25074690.86 25074690.98 25074691.12 0.0280 0.0183

Venus 63940-06-19 18:29 G 25074835.20 25074835.27 25074835.35 0.3682 0.2638

Jupiter 63941-07-10 07:41 G 25075220.65 25075220.82 25075220.99 0.0487 0.0073

Mars 63941-11-23 08:24 G 25075356.72 25075356.85 25075356.98 0.1616 0.0387

Earth 63942-05-22 10:05 G 25075536.83 25075536.92 25075537.00 0.2688 0.1855

Moon 63942-05-22 10:19 G 25075536.85 25075536.93 25075537.01 0.2695 0.1860 *

Jupiter 63947-03-17 11:31 G 25077296.86 25077296.98 25077297.11 0.0542 0.0203

Mars 63951-04-15 17:17 G 25078787.13 25078787.22 25078787.31 0.1615 0.1182

Neptune 63952-05-11 01:12 G 25079178.55 25079178.55 25079178.59 0.0088 0.0087

Neptune 63952-08-07 04:19 G 25079266.60 25079266.68 25079266.77 0.0088 0.0077

Neptune 63952-11-03 06:58 G 25079354.69 25079354.79 25079354.91 0.0088 0.0068

Neptune 63953-01-30 09:51 G 25079442.79 25079442.91 25079443.06 0.0088 0.0058

Jupiter 63953-04-28 07:41 G 25079530.66 25079530.82 25079530.99 0.0486 0.0108

Neptune 63953-04-28 12:58 G 25079530.89 25079531.04 25079531.19 0.0088 0.0048 *

Neptune 63953-07-25 15:36 G 25079619.00 25079619.15 25079619.32 0.0088 0.0039

Neptune 63953-10-21 18:29 G 25079707.11 25079707.27 25079707.45 0.0088 0.0029

Neptune 63954-01-17 21:36 G 25079795.23 25079795.40 25079795.58 0.0088 0.0019

Neptune 63954-04-16 00:29 G 25079883.35 25079883.52 25079883.70 0.0088 0.0009

Neptune 63954-07-13 03:36 G 25079971.47 25079971.65 25079971.83 0.0088 0.0002

Saturn 63954-09-01 09:22 G 25080021.79 25080021.89 25080021.99 0.0279 0.0193

Neptune 63954-10-09 06:29 G 25080059.59 25080059.77 25080059.95 0.0088 0.0011

Saturn 63954-11-28 22:19 G 25080110.29 25080110.43 25080110.57 0.0279 0.0046

Neptune 63955-01-05 09:22 G 25080147.72 25080147.89 25080148.07 0.0088 0.0021

Saturn 63955-02-25 11:17 G 25080198.84 25080198.97 25080199.10 0.0279 0.0099

Neptune 63955-04-03 12:15 G 25080235.85 25080236.01 25080236.19 0.0088 0.0031

Saturn 63955-05-24 23:46 G 25080287.43 25080287.49 25080287.56 0.0280 0.0243

Earth 63955-05-25 05:17 G 25080287.61 25080287.72 25080287.84 0.2687 0.0606

Moon 63955-05-25 06:00 G 25080287.64 25080287.75 25080287.86 0.2690 0.0469 *

Neptune 63955-06-30 15:07 G 25080323.98 25080324.13 25080324.30 0.0088 0.0042

Neptune 63955-09-26 18:15 G 25080412.12 25080412.26 25080412.41 0.0088 0.0051

Neptune 63955-12-23 21:22 G 25080500.26 25080500.39 25080500.52 0.0088 0.0061

Neptune 63956-03-21 00:00 G 25080588.41 25080588.50 25080588.62 0.0088 0.0072

Neptune 63956-06-17 02:53 G 25080676.58 25080676.62 25080676.71 0.0088 0.0083

Mars 63957-11-18 11:03 G 25081195.82 25081195.96 25081196.10 0.1908 0.0426

Earth 63957-11-23 10:05 G 25081200.86 25081200.92 25081200.97 0.2644 0.2396

Moon 63957-11-23 11:17 G 25081200.89 25081200.97 25081201.05 0.2646 0.2172 *

Jupiter 63959-01-03 13:55 G 25081606.99 25081607.08 25081607.17 0.0542 0.0406

Jupiter 63959-04-03 01:27 G 25081696.47 25081696.56 25081696.66 0.0541 0.0374

Mars 63962-08-11 14:24 G 25082923.03 25082923.10 25082923.18 0.1617 0.1301

Uranus 63963-02-07 08:39 G 25083102.82 25083102.86 25083102.92 0.0136 0.0127

Uranus 63963-05-06 12:29 G 25083190.94 25083191.02 25083191.11 0.0136 0.0106

Uranus 63963-08-02 16:19 G 25083279.07 25083279.18 25083279.29 0.0137 0.0086

Uranus 63963-10-29 19:55 G 25083367.21 25083367.33 25083367.45 0.0137 0.0066

Uranus 63964-01-25 23:31 G 25083455.35 25083455.48 25083455.61 0.0137 0.0046

Uranus 63964-04-23 03:07 G 25083543.50 25083543.63 25083543.77 0.0137 0.0026

Uranus 63964-07-20 06:43 G 25083631.64 25083631.78 25083631.92 0.0137 0.0006

Uranus 63964-10-16 10:19 G 25083719.79 25083719.93 25083720.07 0.0137 0.0015

Uranus 63965-01-12 13:55 G 25083807.94 25083808.08 25083808.21 0.0137 0.0034

Jupiter 63965-02-14 07:27 G 25083840.67 25083840.81 25083840.94 0.0486 0.0294

Uranus 63965-04-10 17:31 G 25083896.10 25083896.23 25083896.35 0.0137 0.0054

Jupiter 63965-05-15 05:31 G 25083930.66 25083930.73 25083930.81 0.0487 0.0432

Uranus 63965-07-07 20:53 G 25083984.26 25083984.37 25083984.49 0.0137 0.0074

Uranus 63965-10-04 00:15 G 25084072.42 25084072.51 25084072.62 0.0137 0.0094

Uranus 63965-12-31 03:51 G 25084160.59 25084160.66 25084160.74 0.0137 0.0113

Uranus 63966-03-29 07:12 G 25084248.78 25084248.80 25084248.84 0.0137 0.0133

Mars 63967-04-10 12:58 G 25084625.93 25084626.04 25084626.15 0.1908 0.1170

Earth 63968-05-27 00:29 G 25085038.41 25085038.52 25085038.63 0.2685 0.0618

Moon 63968-05-27 01:12 G 25085038.44 25085038.55 25085038.67 0.2684 0.0635 *

Saturn 63968-12-20 00:29 G 25085245.41 25085245.52 25085245.64 0.0281 0.0199

Saturn 63969-03-18 19:12 G 25085334.13 25085334.30 25085334.47 0.0281 0.0023

Saturn 63969-06-15 14:10 G 25085422.95 25085423.09 25085423.23 0.0280 0.0155

Earth 63970-11-26 12:15 G 25085951.87 25085952.01 25085952.15 0.2646 0.0609

Moon 63970-11-26 13:27 G 25085951.92 25085952.06 25085952.20 0.2641 0.0591 *

Jupiter 63971-01-20 04:34 G 25086006.57 25086006.69 25086006.82 0.0542 0.0188

Mars 63972-01-01 23:46 G 25086353.36 25086353.49 25086353.61 0.1616 0.0533

Jupiter 63976-12-03 07:41 G 25088150.78 25088150.82 25088150.87 0.0485 0.0466

Jupiter 63977-03-03 05:17 G 25088240.58 25088240.72 25088240.87 0.0487 0.0249

Pluto 63979-03-27 08:24 G 25088994.80 25088994.85 25088994.92 0.0065 0.0058

Pluto 63979-06-23 09:07 G 25089082.79 25089082.88 25089082.99 0.0065 0.0048

Pluto 63979-09-19 09:36 G 25089170.80 25089170.90 25089171.04 0.0066 0.0038

Pluto 63979-12-16 10:19 G 25089258.81 25089258.93 25089259.08 0.0066 0.0027

Pluto 63980-03-13 11:17 G 25089346.83 25089346.97 25089347.11 0.0066 0.0016

Pluto 63980-06-09 12:00 G 25089434.85 25089435.00 25089435.14 0.0066 0.0005

Pluto 63980-09-05 12:29 G 25089522.88 25089523.02 25089523.17 0.0066 0.0006

Pluto 63980-12-02 13:12 G 25089610.91 25089611.05 25089611.20 0.0066 0.0017

Pluto 63981-02-28 13:41 G 25089698.95 25089699.07 25089699.21 0.0066 0.0028

Mars 63981-05-24 08:39 G 25089783.73 25089783.86 25089783.99 0.1616 0.0254

Pluto 63981-05-27 14:39 G 25089786.99 25089787.11 25089787.23 0.0066 0.0039

Earth 63981-05-29 19:27 G 25089789.23 25089789.31 25089789.39 0.2684 0.1806

Moon 63981-05-29 19:41 G 25089789.24 25089789.32 25089789.40 0.2679 0.1899 *

Pluto 63981-08-23 15:07 G 25089875.04 25089875.13 25089875.23 0.0066 0.0050

Pluto 63981-11-19 15:36 G 25089963.11 25089963.15 25089963.22 0.0066 0.0061

Jupiter 63982-11-08 07:41 G 25090316.69 25090316.82 25090316.96 0.0542 0.0008

Earth 63983-11-29 14:53 G 25090702.99 25090703.12 25090703.25 0.2647 0.1251

Moon 63983-11-29 15:22 G 25090703.01 25090703.14 25090703.27 0.2641 0.1322 *

Saturn 63984-01-19 10:48 G 25090753.88 25090753.95 25090754.02 0.0278 0.0238

Saturn 63984-04-17 00:00 G 25090842.36 25090842.50 25090842.63 0.0278 0.0091

Saturn 63984-07-14 12:43 G 25090930.90 25090931.03 25090931.17 0.0279 0.0055

Saturn 63984-10-11 01:27 G 25091019.47 25091019.56 25091019.66 0.0279 0.0197

Venus 63985-12-26 07:27 G 25091460.72 25091460.81 25091460.90 0.3683 0.1855

Venus 63987-07-11 21:36 G 25092023.32 25092023.40 25092023.49 0.3687 0.2860

Earth	**63988-05-22 15:07**	**G**	**25092339.04**	**25092339.13**	**25092339.22**	**0.2688**	**0.1618**	
Moon	**63988-05-22 15:22**	**G**	**25092339.05**	**25092339.14**	**25092339.24**	**0.2695**	**0.1566**	*****
Jupiter	**63988-12-20 05:17**	**G**	**25092550.55**	**25092550.72**	**25092550.89**	**0.0486**	**0.0066**	
Mars	**63990-10-14 17:31**	**G**	**25093214.13**	**25093214.23**	**25093214.33**	**0.1615**	**0.1050**	
Venus	**63991-07-12 00:00**	**G**	**25093484.39**	**25093484.50**	**25093484.60**	**0.3682**	**0.0939**	
Venus	**63993-01-25 01:27**	**G**	**25094047.52**	**25094047.56**	**25094047.59**	**0.3688**	**0.3535**	
Jupiter	**63994-08-27 10:34**	**G**	**25094626.81**	**25094626.94**	**25094627.06**	**0.0542**	**0.0190**	
Venus	**63997-01-24 16:19**	**G**	**25095508.17**	**25095508.18**	**25095508.18**	**0.3682**	**0.3658**	
Mars	**63997-05-19 11:17**	**G**	**25095622.83**	**25095622.97**	**25095623.10**	**0.1907**	**0.0592**	
Saturn	**63998-05-08 23:31**	**G**	**25095977.43**	**25095977.48**	**25095977.55**	**0.0281**	**0.0259**	
Saturn	**63998-08-05 18:00**	**G**	**25096066.10**	**25096066.25**	**25096066.42**	**0.0281**	**0.0085**	
Saturn	**63998-11-02 12:58**	**G**	**25096154.88**	**25096155.04**	**25096155.20**	**0.0280**	**0.0093**	
Saturn	**63999-01-30 07:55**	**G**	**25096243.80**	**25096243.83**	**25096243.87**	**0.0280**	**0.0273**	
Jupiter	**64000-10-08 05:31**	**G**	**25096860.57**	**25096860.73**	**25096860.90**	**0.0486**	**0.0109**	

65TH MILLENNIUM CE

This is a list of transits of Mercury in the 65th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	**64001-05-25 10:19**	**G**	**25097089.82**	**25097089.93**	**25097090.05**	**0.2687**	**0.0373**	
Moon	**64001-05-25 11:03**	**G**	**25097089.85**	**25097089.96**	**25097090.08**	**0.2688**	**0.0334**	*****
Mars	**64002-02-09 14:39**	**G**	**25097350.05**	**25097350.11**	**25097350.17**	**0.1617**	**0.1425**	
Earth	**64003-11-24 15:51**	**G**	**25098003.08**	**25098003.16**	**25098003.25**	**0.2644**	**0.2073**	
Moon	**64003-11-24 17:17**	**G**	**25098003.13**	**25098003.22**	**25098003.31**	**0.2644**	**0.2032**	*****

Uranus 64003-11-25 20:39 G 25098004.28 25098004.36 25098004.46 0.0142 0.0121

Uranus 64004-02-22 03:22 G 25098092.52 25098092.64 25098092.79 0.0142 0.0093

Uranus 64004-05-20 10:19 G 25098180.78 25098180.93 25098181.09 0.0142 0.0064

Uranus 64004-08-16 17:03 G 25098269.05 25098269.21 25098269.39 0.0141 0.0037

Uranus 64004-11-13 00:15 G 25098357.33 25098357.51 25098357.69 0.0141 0.0008

Uranus 64005-02-09 06:58 G 25098445.62 25098445.79 25098445.97 0.0141 0.0021

Uranus 64005-05-08 13:55 G 25098533.92 25098534.08 25098534.25 0.0141 0.0050

Uranus 64005-08-04 21:07 G 25098622.23 25098622.38 25098622.53 0.0141 0.0079

Uranus 64005-11-01 04:05 G 25098710.55 25098710.67 25098710.79 0.0141 0.0107

Uranus 64006-01-28 10:48 G 25098798.92 25098798.95 25098799.01 0.0141 0.0137

Jupiter 64006-06-15 12:15 G 25098936.92 25098937.01 25098937.10 0.0542 0.0404

Jupiter 64006-09-13 00:00 G 25099026.41 25099026.50 25099026.59 0.0541 0.0377

Mars 64006-10-09 12:58 G 25099052.92 25099053.04 25099053.15 0.1908 0.1022

Mars 64011-07-02 23:46 G 25100780.37 25100780.49 25100780.61 0.1616 0.0657

Jupiter 64012-07-27 05:46 G 25101170.60 25101170.74 25101170.88 0.0486 0.0286

Jupiter 64012-10-25 04:05 G 25101260.60 25101260.67 25101260.74 0.0487 0.0441

Saturn 64013-06-07 13:12 G 25101486.03 25101486.05 25101486.09 0.0278 0.0271

Saturn 64013-09-04 02:39 G 25101574.48 25101574.61 25101574.74 0.0279 0.0122

Saturn 64013-12-01 15:36 G 25101663.01 25101663.15 25101663.29 0.0279 0.0024

Saturn 64014-02-28 04:19 G 25101751.57 25101751.68 25101751.80 0.0279 0.0168

Earth 64014-05-28 05:31 G 25101840.62 25101840.73 25101840.84 0.2685 0.0845

Moon 64014-05-28 06:15 G 25101840.65 25101840.76 25101840.87 0.2683 0.1000 *

Earth 64016-11-26 18:15 G 25102754.12 25102754.26 25102754.41 0.2646 0.0276

Moon 64016-11-26 19:27 G 25102754.16 25102754.31 25102754.45 0.2641 0.0099 *

Jupiter 64018-07-02 02:39 G 25103336.48 25103336.61 25103336.74 0.0541 0.0181

Mars 64020-11-22 08:53 G 25104210.74 25104210.87 25104211.00 0.1616 0.0122

Earth 64021-05-21 00:43 G 25104390.51 25104390.53 25104390.54 0.2689 0.2651

Jupiter 64024-05-15 05:31 G 25105480.69 25105480.73 25105480.78 0.0485 0.0467

Jupiter 64024-08-13 03:07 G 25105570.49 25105570.63 25105570.78 0.0487 0.0246

Earth 64027-05-31 00:29 G 25106591.44 25106591.52 25106591.59 0.2684 0.2032

Moon 64027-05-31 00:43 G 25106591.45 25106591.53 25106591.60 0.2677 0.1983 *

Saturn 64027-12-23 20:39 G 25106798.21 25106798.36 25106798.52 0.0281 0.0110

Saturn 64028-03-21 15:36 G 25106886.98 25106887.15 25106887.31 0.0280 0.0068

Saturn 64028-06-18 10:34 G 25106975.86 25106975.94 25106976.02 0.0280 0.0247

Moon 64029-11-29 21:07 G 25107505.26 25107505.38 25107505.50 0.2641 0.1544

Earth 64029-11-29 21:07 G 25107505.27 25107505.38 25107505.50 0.2647 0.1609 *

Mars 64030-04-14 17:46 G 25107641.13 25107641.24 25107641.35 0.1615 0.0917

Jupiter 64030-04-20 05:17 G 25107646.59 25107646.72 25107646.86 0.0542 0.0022

Neptune 64033-06-06 05:46 G 25108789.71 25108789.74 25108789.79 0.0089 0.0085

Neptune 64033-09-02 07:41 G 25108877.75 25108877.82 25108877.89 0.0089 0.0077

Neptune 64033-11-29 09:07 G 25108965.80 25108965.88 25108965.98 0.0089 0.0069

Neptune 64034-02-25 10:34 G 25109053.85 25109053.94 25109054.06 0.0089 0.0061

Earth 64034-05-23 20:10 G 25109141.24 25109141.34 25109141.44 0.2688 0.1382

Moon 64034-05-23 20:24 G 25109141.25 25109141.35 25109141.45 0.2694 0.1346 *

Neptune 64034-05-24 12:15 G 25109141.91 25109142.01 25109142.14 0.0089 0.0052

Neptune 64034-08-20 14:10 G 25109229.97 25109230.09 25109230.21 0.0089 0.0044

Neptune 64034-11-16 15:36 G 25109318.03 25109318.15 25109318.29 0.0089 0.0036

Neptune 64035-02-12 17:17 G 25109406.09 25109406.22 25109406.36 0.0089 0.0027

Neptune 64035-05-11 18:58 G 25109494.15 25109494.29 25109494.43 0.0089 0.0019

Neptune 64035-08-07 20:24 G 25109582.22 25109582.35 25109582.50 0.0089 0.0011

Neptune 64035-11-03 22:05 G 25109670.28 25109670.42 25109670.56 0.0089 0.0003

Neptune 64036-01-30 23:46 G 25109758.35 25109758.49 25109758.63 0.0089 0.0006

Neptune 64036-04-28 01:12 G 25109846.41 25109846.55 25109846.69 0.0089 0.0013

Jupiter 64036-06-01 03:07 G 25109880.47 25109880.63 25109880.80 0.0486 0.0068

Neptune 64036-07-25 02:53 G 25109934.48 25109934.62 25109934.75 0.0089 0.0021

Neptune 64036-10-21 04:19 G 25110022.55 25110022.68 25110022.81 0.0089 0.0029

Mars 64036-11-17 11:31 G 25110049.85 25110049.98 25110050.11 0.1907 0.0766

Venus 64037-01-16 12:29 G 25110110.01 25110110.02 25110110.04 0.3684 0.3643

Neptune 64037-01-17 05:46 G 25110110.62 25110110.74 25110110.87 0.0089 0.0038

Neptune 64037-04-15 07:27 G 25110198.69 25110198.81 25110198.93 0.0089 0.0045

Neptune 64037-07-12 08:53 G 25110286.77 25110286.87 25110286.99 0.0089 0.0053

Neptune 64037-10-08 10:19 G 25110374.84 25110374.93 25110375.04 0.0089 0.0062

Neptune 64038-01-04 11:46 G 25110462.92 25110462.99 25110463.09 0.0089 0.0070

Neptune 64038-04-02 13:12 G 25110551.00 25110551.05 25110551.13 0.0089 0.0078

Neptune 64038-06-29 14:39 G 25110639.09 25110639.11 25110639.17 0.0089 0.0086

Mars 64041-08-10 14:39 G 25111777.08 25111777.11 25111777.15 0.1617 0.1549

Jupiter 64042-02-06 08:24 G 25111956.73 25111956.85 25111956.98 0.0543 0.0199

Venus 64042-08-02 05:03 G 25112133.61 25112133.71 25112133.82 0.3683 0.0809

Saturn 64043-01-22 04:19 G 25112306.57 25112306.68 25112306.80 0.0278 0.0166

Saturn 64043-04-20 17:17 G 25112395.08 25112395.22 25112395.37 0.0278 0.0021

Saturn 64043-07-18 06:15 G 25112483.63 25112483.76 25112483.88 0.0279 0.0124

Saturn 64043-10-14 18:43 G 25112572.25 25112572.28 25112572.32 0.0279 0.0266

Venus 64044-02-15 22:05 G 25112696.29 25112696.42 25112696.56 0.3688 0.0712

Mars 64046-04-09 13:12 G 25113479.93 25113480.05 25113480.18 0.1908 0.0833

Uranus 64047-02-27 15:51 G 25113804.11 25113804.16 25113804.24 0.0136 0.0121

Earth 64047-05-26 15:22 G 25113892.02 25113892.14 25113892.26 0.2686 0.0139

Moon 64047-05-26 16:05 G 25113892.06 25113892.17 25113892.29 0.2687 0.0093 *

Uranus 64047-05-26 19:27 G 25113892.23 25113892.31 25113892.42 0.0136 0.0101 *

Uranus 64047-08-22 23:31 G 25113980.36 25113980.48 25113980.59 0.0137 0.0080

Uranus 64047-11-19 03:07 G 25114068.50 25114068.63 25114068.76 0.0137 0.0060

Uranus 64048-02-15 06:43 G 25114156.65 25114156.78 25114156.91 0.0137 0.0039

Venus 64048-02-15 21:36 G 25114157.31 25114157.40 25114157.49 0.3682 0.1967

Jupiter 64048-03-20 03:07 G 25114190.47 25114190.63 25114190.80 0.0486 0.0114

Uranus 64048-05-13 10:19 G 25114244.79 25114244.93 25114245.07 0.0137 0.0019

Uranus 64048-08-09 13:55 G 25114332.94 25114333.08 25114333.22 0.0137 0.0002

Uranus 64048-11-05 17:31 G 25114421.09 25114421.23 25114421.37 0.0137 0.0021

Uranus 64049-02-01 21:07 G 25114509.25 25114509.38 25114509.51 0.0137 0.0040

Uranus 64049-05-01 00:29 G 25114597.40 25114597.52 25114597.65 0.0137 0.0061

Uranus 64049-07-28 04:05 G 25114685.56 25114685.67 25114685.78 0.0137 0.0080

Uranus 64049-10-24 07:41 G 25114773.73 25114773.82 25114773.91 0.0137 0.0100

Earth 64049-11-24 21:51 G 25114805.31 25114805.41 25114805.52 0.2645 0.1746

Moon 64049-11-24 23:17 G 25114805.35 25114805.47 25114805.58 0.2643 0.1552 *

Uranus 64050-01-20 11:03 G 25114861.90 25114861.96 25114862.03 0.0137 0.0119

Mars 64051-01-01 00:00 G 25115207.38 25115207.50 25115207.61 0.1616 0.0783

Jupiter 64053-11-25 11:17 G 25116266.87 25116266.97 25116267.06 0.0543 0.0393

Jupiter 64054-02-22 22:48 G 25116356.36 25116356.45 25116356.55 0.0541 0.0390

Saturn 64057-05-11 19:12 G 25117530.18 25117530.30 25117530.44 0.0281 0.0174

Saturn 64057-08-08 13:55 G 25117618.91 25117619.08 25117619.25 0.0280 0.0003

Saturn 64057-11-05 08:53 G 25117707.74 25117707.87 25117708.00 0.0280 0.0181

Jupiter 64060-01-07 03:36 G 25118500.52 25118500.65 25118500.79 0.0486 0.0286

Jupiter 64060-04-06 01:55 G 25118590.51 25118590.58 25118590.65 0.0487 0.0440

Mars 64060-05-23 08:53 G 25118637.74 25118637.87 25118638.01 0.1616 0.0055

Earth 64060-05-28 10:19 G 25118642.83 25118642.93 25118643.04 0.2685 0.1076

Moon 64060-05-28 11:03 G 25118642.86 25118642.96 25118643.07 0.2682 0.1087 *

Earth 64062-11-28 00:15 G 25119556.37 25119556.51 25119556.66 0.2646 0.0087

Moon 64062-11-28 01:12 G 25119556.41 25119556.55 25119556.70 0.2641 0.0109 *

Jupiter 64065-12-12 01:12 G 25120666.43 25120666.55 25120666.68 0.0541 0.0187

Pluto 64067-03-27 12:58 G 25121136.98 25121137.04 25121137.13 0.0078 0.0069

Moon 64067-05-22 05:46 G 25121192.69 25121192.74 25121192.79 0.2696 0.2359

Earth 64067-05-22 05:46 G 25121192.69 25121192.74 25121192.79 0.2689 0.2410 *

Pluto 64067-06-23 14:53 G 25121225.00 25121225.12 25121225.27 0.0078 0.0048

Pluto 64067-09-19 17:03 G 25121313.06 25121313.21 25121313.38 0.0078 0.0027

Pluto 64067-12-16 19:12 G 25121401.13 25121401.30 25121401.47 0.0078 0.0006

Pluto 64068-03-13 20:53 G 25121489.21 25121489.37 25121489.55 0.0078 0.0016

Pluto 64068-06-09 22:48 G 25121577.31 25121577.45 25121577.61 0.0078 0.0037

Pluto 64068-09-06 00:29 G 25121665.43 25121665.52 25121665.66 0.0077 0.0058

Mars 64069-10-13 17:46 G 25122068.13 25122068.24 25122068.36 0.1615 0.0786

Jupiter 64071-10-26 04:05 G 25122810.62 25122810.67 25122810.72 0.0486 0.0460

Jupiter 64072-01-24 01:41 G 25122900.43 25122900.57 25122900.72 0.0487 0.0256

Saturn 64072-06-10 06:43 G 25123038.68 25123038.78 25123038.88 0.0279 0.0201

Saturn 64072-09-06 19:41 G 25123127.19 25123127.32 25123127.47 0.0279 0.0055

Saturn 64072-12-04 08:39 G 25123215.73 25123215.86 25123216.00 0.0279 0.0091

Saturn 64073-03-02 21:22 G 25123304.32 25123304.39 25123304.47 0.0280 0.0234

Earth 64073-05-31 05:17 G 25123393.66 25123393.72 25123393.78 0.2684 0.2248

Moon 64073-05-31 05:31 G 25123393.68 25123393.73 25123393.79 0.2677 0.2330 *

Moon 64075-12-01 03:07 G 25124307.53 25124307.63 25124307.72 0.2641 0.2019

Earth 64075-12-01 03:07 G 25124307.54 25124307.63 25124307.73 0.2647 0.1954 *

Mars 64076-05-18 11:46 G 25124476.87 25124476.99 25124477.11 0.1908 0.0950

Jupiter 64077-09-30 03:51 G 25124976.52 25124976.66 25124976.79 0.0542 0.0019

Mars 64079-03-06 02:39 G 25125498.59 25125498.61 25125498.63 0.1615 0.1586

Earth 64080-05-24 01:12 G 25125943.44 25125943.55 25125943.65 0.2687 0.1145

Moon 64080-05-24 01:41 G 25125943.46 25125943.57 25125943.67 0.2692 0.1117 *

Jupiter 64083-11-12 01:12 G 25127210.38 25127210.55 25127210.72 0.0486 0.0067

Mars 64085-10-08 13:27 G 25127906.93 25127907.06 25127907.19 0.1908 0.0662

Saturn 64086-09-28 21:51 G 25128262.30 25128262.41 25128262.53 0.0281 0.0200

Saturn 64086-12-26 16:34 G 25128351.02 25128351.19 25128351.36 0.0281 0.0025

Saturn 64087-03-25 11:17 G 25128439.83 25128439.97 25128440.12 0.0280 0.0154

Uranus 64087-09-18 20:53 G 25128617.37 25128617.37 25128617.38 0.0142 0.0142

Uranus 64087-12-16 03:36 G 25128705.55 25128705.65 25128705.76 0.0142 0.0114

Uranus 64088-03-13 10:19 G 25128793.80 25128793.93 25128794.08 0.0142 0.0086

Uranus 64088-06-09 17:17 G 25128882.06 25128882.22 25128882.38 0.0141 0.0058

Uranus 64088-09-06 00:00 G 25128970.33 25128970.50 25128970.68 0.0141 0.0030

Uranus 64088-12-03 06:58 G 25129058.61 25129058.79 25129058.97 0.0141 0.0001

Uranus 64089-03-01 13:55 G 25129146.90 25129147.08 25129147.25 0.0141 0.0028

Uranus 64089-05-28 20:39 G 25129235.20 25129235.36 25129235.53 0.0141 0.0056

Jupiter 64089-07-19 06:15 G 25129286.64 25129286.76 25129286.89 0.0543 0.0211

Uranus 64089-08-25 03:36 G 25129323.51 25129323.65 25129323.80 0.0141 0.0085

Uranus 64089-11-21 10:34 G 25129411.85 25129411.94 25129412.06 0.0141 0.0114

Mars 64090-07-02 00:00 G 25129634.40 25129634.50 25129634.61 0.1616 0.0913

Earth 64093-05-26 20:24 G 25130694.23 25130694.35 25130694.46 0.2686 0.0093

Moon 64093-05-26 21:07 G 25130694.27 25130694.38 25130694.50 0.2687 0.0195 *

Venus 64093-08-23 10:19 G 25130782.85 25130782.93 25130783.00 0.3684 0.2565

Jupiter 64095-08-31 01:27 G 25131520.39 25131520.56 25131520.72 0.0486 0.0110

Earth 64095-11-26 03:51 G 25131607.54 25131607.66 25131607.78 0.2645 0.1418

Moon 64095-11-26 05:17 G 25131607.59 25131607.72 25131607.84 0.2642 0.1336 *

Venus 64099-03-09 02:39 G 25132806.51 25132806.61 25132806.72 0.3683 0.0272

Mars 64099-11-22 09:07 G 25133064.75 25133064.88 25133065.01 0.1615 0.0135

Venus 64100-09-22 22:34 G 25133369.31 25133369.44 25133369.57 0.3688 0.1464

Jupiter 64101-05-08 09:07 G 25133596.79 25133596.88 25133596.97 0.0543 0.0401

Jupiter 64101-08-05 20:53 G 25133686.28 25133686.37 25133686.47 0.0542 0.0385

Saturn 64101-10-29 08:24 G 25133770.78 25133770.85 25133770.92 0.0277 0.0243

Saturn 64102-01-25 21:36 G 25133859.26 25133859.40 25133859.53 0.0278 0.0097

Saturn 64102-04-24 10:34 G 25133947.80 25133947.94 25133948.08 0.0278 0.0048

Saturn 64102-07-21 23:03 G 25134036.37 25134036.46 25134036.57 0.0279 0.0191

Venus 64104-09-22 19:12 G 25134830.24 25134830.30 25134830.36 0.3682 0.2991

Earth 64106-05-30 15:22 G 25135445.04 25135445.14 25135445.24 0.2685 0.1299

Moon 64106-05-30 16:05 G 25135445.07 25135445.17 25135445.27 0.2681 0.1396 *

Jupiter 64107-06-20 01:27 G 25135830.43 25135830.56 25135830.70 0.0486 0.0287

Jupiter 64107-09-17 23:31 G 25135920.41 25135920.48 25135920.56 0.0487 0.0437

Earth 64108-11-29 06:29 G 25136358.62 25136358.77 25136358.91 0.2646 0.0415

Moon 64108-11-29 07:12 G 25136358.65 25136358.80 25136358.94 0.2641 0.0568 *

Mars 64109-04-14 18:00 G 25136495.13 25136495.25 25136495.37 0.1615 0.0655

Earth 64113-05-23 10:48 G 25137994.88 25137994.95 25137995.02 0.2688 0.2171

Moon 64113-05-23 10:48 G 25137994.89 25137994.95 25137995.01 0.2696 0.2244 *

Jupiter 64113-05-25 00:00 G 25137996.38 25137996.50 25137996.63 0.0542 0.0200

Mars 64115-11-18 12:00 G 25138903.88 25138904.00 25138904.11 0.1907 0.1112

Saturn 64116-02-16 20:10 G 25138994.30 25138994.34 25138994.40 0.0281 0.0265

Saturn 64116-05-15 14:39 G 25139082.96 25139083.11 25139083.27 0.0281 0.0091

Saturn 64116-08-12 09:22 G 25139171.74 25139171.89 25139172.06 0.0280 0.0087

Saturn 64116-11-09 04:34 G 25139260.64 25139260.69 25139260.74 0.0280 0.0266

Neptune 64117-02-06 00:00 G 25139349.45 25139349.50 25139349.58 0.0088 0.0082

Neptune 64117-05-05 02:53 G 25139437.53 25139437.62 25139437.73 0.0088 0.0072

Neptune 64117-08-01 06:00 G 25139525.63 25139525.75 25139525.88 0.0088 0.0062

Neptune 64117-10-28 08:39 G 25139613.73 25139613.86 25139614.01 0.0088 0.0053

Neptune 64118-01-24 11:31 G 25139701.83 25139701.98 25139702.15 0.0088 0.0043

Neptune 64118-04-22 14:24 G 25139789.95 25139790.10 25139790.28 0.0088 0.0033

Neptune 64118-07-19 17:31 G 25139878.06 25139878.23 25139878.40 0.0088 0.0023

Mars 64118-09-05 02:53 G 25139925.56 25139925.62 25139925.67 0.1615 0.1458

Neptune 64118-10-15 20:24 G 25139966.17 25139966.35 25139966.53 0.0088 0.0013

Neptune 64119-01-11 23:17 G 25140054.29 25140054.47 25140054.65 0.0088 0.0004

Jupiter 64119-04-08 02:10 G 25140140.54 25140140.59 25140140.64 0.0486 0.0456

Neptune 64119-04-10 02:10 G 25140142.42 25140142.59 25140142.77 0.0088 0.0007

Moon 64119-06-02 10:34 G 25140195.89 25140195.94 25140195.98 0.2677 0.2414

Earth 64119-06-02 10:19 G 25140195.89 25140195.93 25140195.97 0.2684 0.2470 *

Jupiter 64119-07-06 23:46 G 25140230.34 25140230.49 25140230.63 0.0487 0.0258

Neptune 64119-07-07 05:03 G 25140230.54 25140230.71 25140230.90 0.0088 0.0017 *

Neptune 64119-10-03 07:55 G 25140318.67 25140318.83 25140319.01 0.0088 0.0027

Neptune 64119-12-30 10:48 G 25140406.80 25140406.95 25140407.13 0.0088 0.0037

Neptune 64120-03-27 13:41 G 25140494.94 25140495.07 25140495.24 0.0088 0.0048

Neptune 64120-06-23 16:48 G 25140583.08 25140583.20 25140583.35 0.0088 0.0057

Neptune 64120-09-19 19:55 G 25140671.22 25140671.33 25140671.46 0.0088 0.0067

Neptune 64120-12-16 22:48 G 25140759.38 25140759.45 25140759.55 0.0088 0.0078

Neptune 64121-03-15 01:55 G 25140847.57 25140847.58 25140847.61 0.0088 0.0088

Moon 64121-12-02 09:07 G 25141109.80 25141109.88 25141109.96 0.2641 0.2182

Earth 64121-12-02 09:22 G 25141109.82 25141109.89 25141109.96 0.2648 0.2311 *

Jupiter 64125-03-13 02:24 G 25142306.47 25142306.60 25142306.74 0.0542 0.0010

Mars 64125-04-09 13:41 G 25142333.93 25142334.07 25142334.20 0.1908 0.0504

Earth 64126-05-26 06:15 G 25142745.65 25142745.76 25142745.87 0.2687 0.0912

Moon 64126-05-26 06:43 G 25142745.67 25142745.78 25142745.90 0.2691 0.0792 *

Mars 64130-01-01 00:15 G 25144061.41 25144061.51 25144061.61 0.1616 0.1037

Uranus 64130-12-22 19:12 G 25144417.30 25144417.30 25144417.33 0.0136 0.0136

Uranus 64131-03-20 23:17 G 25144505.39 25144505.47 25144505.54 0.0136 0.0115

Jupiter 64131-04-24 23:46 G 25144540.32 25144540.49 25144540.66 0.0487 0.0077

Saturn 64131-06-14 23:31 G 25144591.35 25144591.48 25144591.60 0.0279 0.0136

Uranus 64131-06-17 02:39 G 25144593.52 25144593.61 25144593.72 0.0136 0.0095

Saturn 64131-09-11 12:29 G 25144679.88 25144680.02 25144680.16 0.0279 0.0010

Uranus 64131-09-13 06:29 G 25144681.66 25144681.77 25144681.89 0.0137 0.0074

Saturn 64131-12-09 01:12 G 25144768.44 25144768.55 25144768.67 0.0279 0.0154

Uranus 64131-12-10 10:05 G 25144769.80 25144769.92 25144770.05 0.0137 0.0054

Uranus 64132-03-07 13:41 G 25144857.94 25144858.07 25144858.21 0.0137 0.0035

Uranus 64132-06-03 17:31 G 25144946.09 25144946.23 25144946.37 0.0137 0.0014

Uranus 64132-08-30 21:07 G 25145034.24 25145034.38 25145034.52 0.0137 0.0007

Uranus 64132-11-27 00:43 G 25145122.39 25145122.53 25145122.66 0.0137 0.0026

Uranus 64133-02-23 04:05 G 25145210.54 25145210.67 25145210.81 0.0137 0.0046

Uranus 64133-05-22 07:41 G 25145298.70 25145298.82 25145298.94 0.0137 0.0066

Uranus 64133-08-18 11:17 G 25145386.86 25145386.97 25145387.08 0.0137 0.0085

Uranus 64133-11-14 14:39 G 25145475.03 25145475.11 25145475.20 0.0137 0.0105

Uranus 64134-02-10 18:00 G 25145563.21 25145563.25 25145563.32 0.0137 0.0125

Jupiter 64136-12-30 04:48 G 25146616.58 25146616.70 25146616.83 0.0542 0.0205

Mars 64139-05-24 09:22 G 25147491.76 25147491.89 25147492.02 0.1616 0.0267

Earth 64139-05-29 01:27 G 25147496.44 25147496.56 25147496.67 0.2686 0.0323

Moon 64139-05-29 02:10 G 25147496.48 25147496.59 25147496.71 0.2687 0.0415 *

Earth 64141-11-27 09:51 G 25148409.78 25148409.91 25148410.04 0.2645 0.1086

Moon 64141-11-27 11:17 G 25148409.83 25148409.97 25148410.10 0.2642 0.0925 *

Jupiter 64143-02-10 23:31 G 25148850.31 25148850.48 25148850.64 0.0486 0.0107

Saturn 64145-10-02 17:03 G 25149815.06 25149815.21 25149815.36 0.0281 0.0121

Saturn 64145-12-30 11:46 G 25149903.82 25149903.99 25149904.15 0.0281 0.0056

Saturn 64146-03-29 06:43 G 25149992.69 25149992.78 25149992.87 0.0280 0.0236

Mars 64148-10-13 18:15 G 25150922.13 25150922.26 25150922.39 0.1615 0.0523

Jupiter 64148-10-18 06:58 G 25150926.71 25150926.79 25150926.88 0.0543 0.0411

Jupiter 64149-01-15 18:58 G 25151016.19 25151016.29 25151016.38 0.0542 0.0376

Venus 64150-03-31 07:55 G 25151455.73 25151455.83 25151455.93 0.3683 0.1517

Venus 64151-10-14 19:41 G 25152018.22 25152018.32 25152018.42 0.3687 0.2655

Earth 64152-05-30 20:24 G 25152247.26 25152247.35 25152247.45 0.2685 0.1521

Moon 64152-05-30 20:53 G 25152247.28 25152247.37 25152247.47 0.2679 0.1550 *

Jupiter 64154-11-29 23:46 G 25153160.36 25153160.49 25153160.63 0.0485 0.0280

Earth 64154-11-30 12:29 G 25153160.88 25153161.02 25153161.16 0.2646 0.0750

Moon 64154-11-30 12:58 G 25153160.89 25153161.04 25153161.18 0.2640 0.0729 *

Jupiter 64155-02-27 21:51 G 25153250.35 25153250.41 25153250.48 0.0487 0.0443

Mars 64155-05-19 12:15 G 25153330.90 25153331.01 25153331.11 0.1907 0.1285

Venus 64155-10-15 00:29 G 25153479.42 25153479.52 25153479.61 0.3683 0.1288

Venus 64157-04-29 23:03 G 25154042.46 25154042.46 25154042.47 0.3688 0.3681

Mars 64158-03-06 02:53 G 25154352.55 25154352.62 25154352.70 0.1615 0.1325

Moon 64159-05-24 15:51 G 25154797.08 25154797.16 25154797.25 0.2695 0.1859

Earth 64159-05-24 15:51 G 25154797.08 25154797.16 25154797.24 0.2688 0.1932 *

Saturn 64160-11-01 01:27 G 25155323.45 25155323.56 25155323.67 0.0277 0.0177

Jupiter 64160-11-03 22:19 G 25155326.30 25155326.43 25155326.55 0.0542 0.0195

Saturn 64161-01-28 14:24 G 25155411.96 25155412.10 25155412.25 0.0278 0.0032

Saturn 64161-04-27 03:22 G 25155500.51 25155500.64 25155500.77 0.0278 0.0112

Saturn 64161-07-24 15:51 G 25155589.11 25155589.16 25155589.22 0.0279 0.0254

Mars 64164-10-08 13:55 G 25156760.94 25156761.08 25156761.22 0.1908 0.0322

Jupiter 64166-09-18 00:00 G 25157470.45 25157470.50 25157470.57 0.0485 0.0455

Jupiter 64166-12-16 21:36 G 25157560.26 25157560.40 25157560.55 0.0486 0.0259

Mars 64169-07-02 00:29 G 25158488.43 25158488.52 25158488.61 0.1616 0.1162

Uranus 64171-10-10 03:51 G 25159318.61 25159318.66 25159318.71 0.0142 0.0135

Uranus 64172-01-06 10:19 G 25159406.83 25159406.93 25159407.05 0.0142 0.0107

Uranus 64172-04-03 17:03 G 25159495.07 25159495.21 25159495.37 0.0142 0.0080

Earth 64172-05-26 11:17 G 25159547.85 25159547.97 25159548.08 0.2687 0.0682

Moon 64172-05-26 12:00 G 25159547.89 25159548.00 25159548.11 0.2691 0.0664 *

Uranus 64172-07-01 00:00 G 25159583.34 25159583.50 25159583.67 0.0141 0.0051

Jupiter 64172-08-23 01:12 G 25159636.42 25159636.55 25159636.69 0.0542 0.0021

Uranus 64172-09-27 06:43 G 25159671.61 25159671.78 25159671.96 0.0141 0.0024

Uranus 64172-12-24 13:41 G 25159759.89 25159760.07 25159760.25 0.0141 0.0006

Uranus 64173-03-22 20:39 G 25159848.19 25159848.36 25159848.54 0.0141 0.0034

Uranus 64173-06-19 03:22 G 25159936.49 25159936.64 25159936.81 0.0141 0.0063

Uranus 64173-09-15 10:34 G 25160024.80 25160024.94 25160025.08 0.0141 0.0092

Uranus 64173-12-12 17:31 G 25160113.14 25160113.23 25160113.33 0.0141 0.0120

Mars 64174-02-28 16:05 G 25160191.15 25160191.17 25160191.19 0.1908 0.1875

Earth 64174-11-25 13:41 G 25160461.03 25160461.07 25160461.11 0.2644 0.2528

Moon 64174-11-25 15:07 G 25160461.08 25160461.13 25160461.17 0.2644 0.2467 *

Saturn 64175-02-19 14:53 G 25160547.00 25160547.12 25160547.25 0.0281 0.0190

Saturn 64175-05-19 09:36 G 25160635.73 25160635.90 25160636.07 0.0281 0.0015

Saturn 64175-08-16 04:19 G 25160724.55 25160724.68 25160724.82 0.0280 0.0164

Jupiter 64178-10-04 21:51 G 25161870.25 25161870.41 25161870.58 0.0486 0.0083

Mars 64178-11-22 09:22 G 25161918.77 25161918.89 25161919.02 0.1616 0.0395

Jupiter 64184-06-11 03:36 G 25163946.53 25163946.65 25163946.78 0.0542 0.0194

Earth 64185-05-29 06:29 G 25164298.65 25164298.77 25164298.88 0.2686 0.0552

Moon 64185-05-29 07:12 G 25164298.69 25164298.80 25164298.91 0.2685 0.0661 *

Earth 64187-11-28 15:51 G 25165212.02 25165212.16 25165212.30 0.2645 0.0760

Moon 64187-11-28 17:03 G 25165212.07 25165212.21 25165212.35 0.2642 0.0648 *

Mars 64188-04-13 18:29 G 25165349.14 25165349.27 25165349.40 0.1615 0.0394

Saturn 64190-03-21 02:53 G 25166055.54 25166055.62 25166055.71 0.0278 0.0221

Saturn 64190-06-17 16:05 G 25166144.03 25166144.17 25166144.31 0.0278 0.0075

Jupiter 64190-07-23 22:05 G 25166180.26 25166180.42 25166180.59 0.0486 0.0096

Saturn 64190-09-14 05:03 G 25166232.57 25166232.71 25166232.84 0.0279 0.0070

Saturn 64190-12-11 17:31 G 25166321.15 25166321.23 25166321.33 0.0279 0.0213

Mars 64194-11-17 12:29 G 25167757.93 25167758.02 25167758.11 0.1908 0.1473

Jupiter 64196-03-30 06:00 G 25168256.66 25168256.75 25168256.84 0.0543 0.0397

Jupiter 64196-06-27 17:46 G 25168346.15 25168346.24 25168346.33 0.0541 0.0385

Mars 64197-09-04 03:07 G 25168779.55 25168779.63 25168779.73 0.1615 0.1188

Neptune 64197-12-06 03:51 G 25168872.65 25168872.66 25168872.68 0.0089 0.0089

Neptune 64198-03-04 05:17 G 25168960.67 25168960.72 25168960.79 0.0089 0.0081

Neptune 64198-05-31 06:58 G 25169048.72 25169048.79 25169048.89 0.0089 0.0072

Earth 64198-06-01 01:27 G 25169049.47 25169049.56 25169049.65 0.2685 0.1745

Moon 64198-06-01 01:55 G 25169049.49 25169049.58 25169049.66 0.2679 0.1797 *

Neptune 64198-08-27 08:53 G 25169136.77 25169136.87 25169136.97 0.0089 0.0064

Neptune 64198-11-23 10:19 G 25169224.83 25169224.93 25169225.05 0.0089 0.0056

Neptune 64199-02-19 12:00 G 25169312.89 25169313.00 25169313.13 0.0089 0.0047

Neptune 64199-05-18 13:41 G 25169400.95 25169401.07 25169401.20 0.0089 0.0039

Neptune 64199-08-14 15:22 G 25169489.01 25169489.14 25169489.27 0.0089 0.0031

Neptune 64199-11-10 17:03 G 25169577.07 25169577.21 25169577.35 0.0089 0.0023

Neptune 64200-02-06 18:29 G 25169665.14 25169665.27 25169665.41 0.0089 0.0015

Neptune 64200-05-05 20:10 G 25169753.20 25169753.34 25169753.48 0.0089 0.0006

Neptune 64200-08-01 21:51 G 25169841.27 25169841.41 25169841.55 0.0089 0.0002

Neptune 64200-10-28 23:17 G 25169929.33 25169929.47 25169929.61 0.0089 0.0010

Earth 64200-12-01 18:29 G 25169963.14 25169963.27 25169963.40 0.2647 0.1094

Moon 64200-12-01 18:43 G 25169963.15 25169963.28 25169963.42 0.2640 0.1165 *

Neptune 64201-01-25 00:58 G 25170017.40 25170017.54 25170017.68 0.0089 0.0018

Venus 64201-04-22 12:58 G 25170105.00 25170105.04 25170105.09 0.3684 0.3300

Neptune 64201-04-23 02:24 G 25170105.47 25170105.60 25170105.74 0.0089 0.0026

Neptune 64201-07-20 03:51 G 25170193.54 25170193.66 25170193.80 0.0089 0.0035

Neptune 64201-10-16 05:31 G 25170281.61 25170281.73 25170281.86 0.0089 0.0042

Neptune 64202-01-12 06:58 G 25170369.68 25170369.79 25170369.91 0.0089 0.0050

Neptune 64202-04-10 08:24 G 25170457.76 25170457.85 25170457.97 0.0089 0.0059

Jupiter 64202-05-12 22:05 G 25170490.29 25170490.42 25170490.56 0.0485 0.0274

Neptune 64202-07-07 09:51 G 25170545.83 25170545.91 25170546.02 0.0089 0.0067

Jupiter 64202-08-10 20:10 G 25170580.28 25170580.34 25170580.41 0.0487 0.0449

Neptune 64202-10-03 11:46 G 25170633.91 25170633.99 25170634.07 0.0089 0.0074

Neptune 64202-12-30 13:12 G 25170722.00 25170722.05 25170722.11 0.0089 0.0082

Mars 64204-04-09 14:10 G 25171187.95 25171188.09 25171188.23 0.1908 0.0146

Saturn 64204-07-09 16:48 G 25171279.10 25171279.20 25171279.30 0.0281 0.0223

Saturn 64204-10-06 11:17 G 25171367.81 25171367.97 25171368.14 0.0281 0.0048

Saturn 64205-01-03 06:15 G 25171456.61 25171456.76 25171456.91 0.0281 0.0130

Earth 64205-05-25 20:53 G 25171599.28 25171599.37 25171599.46 0.2688 0.1695

Moon 64205-05-25 21:07 G 25171599.29 25171599.38 25171599.47 0.2694 0.1729 *

Venus 64206-11-06 05:31 G 25172128.63 25172128.73 25172128.84 0.3683 0.0462

Jupiter 64208-04-16 20:24 G 25172656.22 25172656.35 25172656.47 0.0542 0.0189

Venus 64208-05-21 20:10 G 25172691.20 25172691.34 25172691.48 0.3688 0.0509

Mars 64209-01-01 00:29 G 25172915.45 25172915.52 25172915.60 0.1616 0.1289

Venus 64212-05-21 22:05 G 25174152.34 25174152.42 25174152.50 0.3682 0.2322

Mars 64213-08-30 16:19 G 25174618.12 25174618.18 25174618.24 0.1908 0.1706

Jupiter 64214-02-28 22:48 G 25174800.39 25174800.45 25174800.52 0.0485 0.0443

Jupiter 64214-05-29 20:10 G 25174890.20 25174890.34 25174890.49 0.0486 0.0269

Uranus 64215-01-13 02:24 G 25175118.57 25175118.60 25175118.65 0.0136 0.0130

Uranus 64215-04-11 06:15 G 25175206.68 25175206.76 25175206.85 0.0136 0.0109

Uranus 64215-07-08 09:51 G 25175294.81 25175294.91 25175295.02 0.0136 0.0089

Uranus 64215-10-04 13:41 G 25175382.95 25175383.07 25175383.19 0.0137 0.0069

Uranus 64215-12-31 17:17 G 25175471.09 25175471.22 25175471.35 0.0137 0.0049

Uranus 64216-03-28 20:53 G 25175559.24 25175559.37 25175559.51 0.0137 0.0029

Uranus 64216-06-25 00:29 G 25175647.38 25175647.52 25175647.66 0.0137 0.0009

Uranus 64216-09-21 04:05 G 25175735.53 25175735.67 25175735.81 0.0137 0.0012

Uranus 64216-12-18 07:41 G 25175823.69 25175823.82 25175823.96 0.0137 0.0032

Uranus 64217-03-16 11:17 G 25175911.84 25175911.97 25175912.10 0.0137 0.0051

Uranus 64217-06-12 14:53 G 25176000.00 25176000.12 25176000.24 0.0137 0.0071

Uranus 64217-09-08 18:15 G 25176088.17 25176088.26 25176088.37 0.0137 0.0091

Uranus 64217-12-05 21:36 G 25176176.33 25176176.40 25176176.49 0.0137 0.0112

Uranus 64218-03-04 01:12 G 25176264.52 25176264.55 25176264.60 0.0137 0.0131

Mars 64218-05-24 09:36 G 25176345.78 25176345.90 25176346.03 0.1616 0.0518

Earth 64218-05-28 16:19 G 25176350.06 25176350.18 25176350.29 0.2687 0.0447

Moon 64218-05-28 17:03 G 25176350.09 25176350.21 25176350.32 0.2690 0.0291 *

Saturn 64219-08-09 04:48 G 25176787.66 25176787.70 25176787.76 0.0277 0.0261

Saturn 64219-11-05 18:00 G 25176876.13 25176876.25 25176876.39 0.0277 0.0115

Saturn 64220-02-02 06:58 G 25176964.65 25176964.79 25176964.94 0.0278 0.0032

Jupiter 64220-02-03 23:31 G 25176966.34 25176966.48 25176966.61 0.0543 0.0008

Saturn 64220-04-30 19:41 G 25177053.22 25177053.32 25177053.44 0.0278 0.0173

Earth 64220-11-26 19:41 G 25177263.24 25177263.32 25177263.40 0.2644 0.2203

Moon 64220-11-26 21:07 G 25177263.28 25177263.38 25177263.47 0.2644 0.1983 *

Jupiter 64226-03-17 20:10 G 25179200.17 25179200.34 25179200.51 0.0486 0.0087

Pluto 64227-07-21 14:39 G 25179691.10 25179691.11 25179691.13 0.0065 0.0065

Mars 64227-10-14 18:29 G 25179776.14 25179776.27 25179776.41 0.1615 0.0266

Pluto 64227-10-17 14:53 G 25179779.06 25179779.12 25179779.22 0.0065 0.0055

Pluto 64228-01-13 15:51 G 25179867.06 25179867.16 25179867.28 0.0065 0.0044

Pluto 64228-04-10 16:34 G 25179955.07 25179955.19 25179955.32 0.0066 0.0033

Pluto 64228-07-07 17:03 G 25180043.09 25180043.21 25180043.36 0.0066 0.0023

Pluto 64228-10-03 18:00 G 25180131.11 25180131.25 25180131.40 0.0066 0.0011

Pluto 64228-12-30 18:43 G 25180219.13 25180219.28 25180219.42 0.0066 0.0001

Pluto 64229-03-28 19:27 G 25180307.16 25180307.31 25180307.45 0.0066 0.0010

Pluto 64229-06-24 19:55 G 25180395.20 25180395.33 25180395.47 0.0066 0.0021

Pluto 64229-09-20 20:24 G 25180483.24 25180483.35 25180483.49 0.0066 0.0032

Pluto 64229-12-17 21:07 G 25180571.28 25180571.38 25180571.50 0.0066 0.0043

Pluto 64230-03-15 21:36 G 25180659.34 25180659.40 25180659.50 0.0066 0.0054

Pluto 64230-06-11 22:48 G 25180747.42 25180747.45 25180747.47 0.0066 0.0065

Earth 64231-05-31 11:17 G 25181100.86 25181100.97 25181101.09 0.2686 0.0784

Moon 64231-05-31 12:00 G 25181100.89 25181101.00 25181101.12 0.2683 0.0808 *

Jupiter 64231-11-23 02:24 G 25181276.48 25181276.60 25181276.73 0.0543 0.0184

Earth 64233-11-29 21:51 G 25182014.27 25182014.41 25182014.55 0.2645 0.0422

Moon 64233-11-29 22:48 G 25182014.31 25182014.45 25182014.60 0.2641 0.0352 *

Saturn 64234-02-23 09:07 G 25182099.73 25182099.88 25182100.03 0.0281 0.0119

Mars 64234-05-19 12:43 G 25182184.96 25182185.03 25182185.10 0.1907 0.1633

Saturn 64234-05-23 03:51 G 25182188.49 25182188.66 25182188.82 0.0281 0.0058

Saturn 64234-08-19 22:48 G 25182277.36 25182277.45 25182277.54 0.0280 0.0237

Mars 64237-03-06 03:22 G 25183206.54 25183206.64 25183206.74 0.1615 0.1057

Jupiter 64238-01-03 20:39 G 25183510.19 25183510.36 25183510.52 0.0486 0.0088

Jupiter 64243-09-11 04:48 G 25185586.61 25185586.70 25185586.80 0.0543 0.0385

Mars 64243-10-09 14:10 G 25185614.95 25185615.09 25185615.23 0.1908 0.0051

Jupiter 64243-12-09 16:48 G 25185676.11 25185676.20 25185676.29 0.0541 0.0399

Earth 64244-06-02 06:15 G 25185851.69 25185851.76 25185851.84 0.2685 0.1966

Moon 64244-06-02 06:43 G 25185851.71 25185851.78 25185851.86 0.2679 0.2011 *

Earth 64246-12-03 00:29 G 25186765.40 25186765.52 25186765.64 0.2647 0.1434

Moon 64246-12-03 00:43 G 25186765.41 25186765.53 25186765.66 0.2640 0.1428 *

Mars 64248-07-02 00:43 G 25187342.47 25187342.53 25187342.59 0.1616 0.1412

Saturn 64249-03-24 19:12 G 25187608.19 25187608.30 25187608.42 0.0278 0.0162

Saturn 64249-06-21 08:24 G 25187696.70 25187696.85 25187696.99 0.0278 0.0018

Saturn 64249-09-17 21:07 G 25187785.26 25187785.38 25187785.51 0.0279 0.0127

Jupiter 64249-10-22 20:53 G 25187820.23 25187820.37 25187820.51 0.0486 0.0262

Saturn 64249-12-15 09:36 G 25187873.87 25187873.90 25187873.94 0.0279 0.0269

Jupiter 64250-01-20 18:58 G 25187910.24 25187910.29 25187910.34 0.0487 0.0463

Earth 64251-05-27 01:55 G 25188401.48 25188401.58 25188401.68 0.2688 0.1458

Moon 64251-05-27 02:24 G 25188401.50 25188401.60 25188401.70 0.2693 0.1356 *

Mars 64253-02-28 16:48 G 25189045.12 25189045.20 25189045.28 0.1908 0.1517

Jupiter 64255-09-27 19:27 G 25189986.18 25189986.31 25189986.43 0.0542 0.0205

Uranus 64255-10-31 10:05 G 25190019.87 25190019.92 25190020.01 0.0142 0.0130

Uranus 64256-01-27 17:03 G 25190108.10 25190108.21 25190108.34 0.0142 0.0102

Uranus 64256-04-24 23:46 G 25190196.35 25190196.49 25190196.65 0.0142 0.0074

Uranus 64256-07-22 06:43 G 25190284.61 25190284.78 25190284.95 0.0141 0.0045

Uranus 64256-10-18 13:27 G 25190372.88 25190373.06 25190373.24 0.0141 0.0017

Uranus 64257-01-14 20:24 G 25190461.17 25190461.35 25190461.53 0.0141 0.0011

Uranus 64257-04-13 03:07 G 25190549.46 25190549.63 25190549.81 0.0141 0.0040

Uranus 64257-07-10 10:05 G 25190637.77 25190637.92 25190638.08 0.0141 0.0069

Uranus 64257-10-06 17:03 G 25190726.09 25190726.21 25190726.35 0.0141 0.0097

Mars 64257-11-22 09:51 G 25190772.79 25190772.91 25190773.03 0.1616 0.0649

Venus 64257-11-27 10:48 G 25190777.86 25190777.95 25190778.03 0.3684 0.2225

Uranus 64258-01-03 00:00 G 25190814.43 25190814.50 25190814.59 0.0141 0.0126

Jupiter 64261-08-10 21:22 G 25192130.32 25192130.39 25192130.46 0.0485 0.0434

Jupiter 64261-11-08 18:43 G 25192220.14 25192220.28 25192220.42 0.0486 0.0278

Venus 64263-06-13 03:22 G 25192801.53 25192801.64 25192801.74 0.3683 0.0620

Saturn 64263-07-13 10:19 G 25192831.80 25192831.93 25192832.07 0.0281 0.0158

Saturn 64263-10-10 05:03 G 25192920.54 25192920.71 25192920.88 0.0281 0.0019

Saturn 64264-01-07 00:00 G 25193009.38 25193009.50 25193009.62 0.0281 0.0198

Earth 64264-05-28 21:22 G 25193152.27 25193152.39 25193152.50 0.2687 0.0231

Moon 64264-05-28 22:05 G 25193152.30 25193152.42 25193152.53 0.2689 0.0209 *

Venus 64264-12-26 20:39 G 25193364.24 25193364.36 25193364.49 0.3688 0.1679

Earth 64266-11-28 01:41 G 25194065.47 25194065.57 25194065.67 0.2644 0.1879

Moon 64266-11-28 02:53 G 25194065.52 25194065.62 25194065.73 0.2644 0.1835 *

Mars 64267-04-14 18:43 G 25194203.15 25194203.28 25194203.42 0.1615 0.0134

Jupiter 64267-07-16 21:36 G 25194296.27 25194296.40 25194296.54 0.0543 0.0011

Venus 64268-12-26 19:41 G 25194825.28 25194825.32 25194825.36 0.3682 0.3348

Jupiter 64273-08-27 18:58 G 25196530.12 25196530.29 25196530.46 0.0486 0.0101

Mars 64273-11-17 12:58 G 25196612.00 25196612.04 25196612.08 0.1907 0.1808

Mars 64276-09-04 03:36 G 25197633.54 25197633.65 25197633.76 0.1615 0.0927

Earth 64277-05-31 16:19 G 25197903.08 25197903.18 25197903.29 0.2686 0.1004

Moon 64277-05-31 17:03 G 25197903.11 25197903.21 25197903.32 0.2682 0.1144 *

Saturn 64278-08-11 21:22 G 25198340.30 25198340.39 25198340.49 0.0277 0.0200

Saturn 64278-11-08 10:34 G 25198428.80 25198428.94 25198429.08 0.0277 0.0054

Saturn 64279-02-04 23:17 G 25198517.34 25198517.47 25198517.61 0.0278 0.0089

Saturn 64279-05-04 12:00 G 25198605.93 25198606.00 25198606.08 0.0278 0.0230

Jupiter 64279-05-05 00:43 G 25198606.40 25198606.53 25198606.66 0.0543 0.0187

Earth 64279-12-01 03:51 G 25198816.52 25198816.66 25198816.81 0.2646 0.0093

Moon 64279-12-01 04:48 G 25198816.55 25198816.70 25198816.84 0.2640 0.0103 *

Neptune 64281-08-07 20:24 G 25199432.32 25199432.35 25199432.39 0.0088 0.0085

Neptune 64281-11-03 23:03 G 25199520.38 25199520.46 25199520.56 0.0088 0.0076

Neptune 64282-01-31 01:55 G 25199608.47 25199608.58 25199608.70 0.0088 0.0066

Neptune 64282-04-29 04:34 G 25199696.57 25199696.69 25199696.84 0.0088 0.0057

Neptune 64282-07-26 07:27 G 25199784.68 25199784.81 25199784.98 0.0088 0.0047

Neptune 64282-10-22 10:34 G 25199872.78 25199872.94 25199873.11 0.0088 0.0037

Neptune 64283-01-18 13:27 G 25199960.89 25199961.06 25199961.23 0.0088 0.0027

Mars 64283-04-09 14:39 G 25200041.97 25200042.11 25200042.25 0.1908 0.0198

Neptune 64283-04-16 16:19 G 25200049.01 25200049.18 25200049.36 0.0088 0.0018

Neptune 64283-07-13 19:12 G 25200137.12 25200137.30 25200137.48 0.0088 0.0008

Neptune 64283-10-09 22:05 G 25200225.25 25200225.42 25200225.60 0.0088 0.0003

Neptune 64284-01-06 01:12 G 25200313.37 25200313.55 25200313.73 0.0088 0.0012

Neptune 64284-04-03 04:05 G 25200401.49 25200401.67 25200401.84 0.0088 0.0022

Moon 64284-05-24 11:17 G 25200452.93 25200452.97 25200453.01 0.2696 0.2501

Earth 64284-05-24 11:31 G 25200452.94 25200452.98 25200453.02 0.2689 0.2492 *

Neptune 64284-06-30 06:58 G 25200489.62 25200489.79 25200489.96 0.0088 0.0032

Neptune 64284-09-26 09:51 G 25200577.76 25200577.91 25200578.07 0.0088 0.0042

Neptune 64284-12-23 12:43 G 25200665.90 25200666.03 25200666.18 0.0088 0.0053

Neptune 64285-03-21 15:51 G 25200754.04 25200754.16 25200754.29 0.0088 0.0062

Jupiter 64285-06-15 18:58 G 25200840.13 25200840.29 25200840.46 0.0486 0.0079

Neptune 64285-06-17 18:29 G 25200842.19 25200842.27 25200842.39 0.0088 0.0073

Neptune 64285-09-13 21:36 G 25200930.36 25200930.40 25200930.47 0.0088 0.0083

Mars 64288-01-01 00:43 G 25201769.50 25201769.53 25201769.57 0.1616 0.1536

Earth 64290-06-03 11:17 G 25202653.91 25202653.97 25202654.04 0.2684 0.2188

Moon 64290-06-03 11:31 G 25202653.92 25202653.98 25202654.05 0.2678 0.2176 *

Jupiter 64291-02-21 03:36 G 25202916.56 25202916.65 25202916.75 0.0543 0.0375

Jupiter 64291-05-21 15:36 G 25203006.07 25203006.15 25203006.24 0.0542 0.0411

Mars 64292-08-29 16:34 G 25203472.10 25203472.19 25203472.29 0.1908 0.1376

Saturn 64292-11-29 08:10 G 25203563.75 25203563.84 25203563.94 0.0282 0.0228

Moon 64292-12-03 06:43 G 25203567.67 25203567.78 25203567.89 0.2640 0.1790

Earth 64292-12-03 06:43 G 25203567.67 25203567.78 25203567.88 0.2647 0.1785 *

Saturn 64293-02-26 02:39 G 25203652.45 25203652.61 25203652.78 0.0281 0.0053

Saturn 64293-05-25 21:36 G 25203741.25 25203741.40 25203741.55 0.0281 0.0125

Jupiter 64297-04-03 19:41 G 25205150.17 25205150.32 25205150.46 0.0485 0.0250

Mars 64297-05-23 10:05 G 25205199.80 25205199.92 25205200.03 0.1616 0.0776

Earth 64297-05-27 06:58 G 25205203.69 25205203.79 25205203.89 0.2688 0.1219

Moon 64297-05-27 07:27 G 25205203.71 25205203.81 25205203.92 0.2694 0.1207 *

Jupiter 64297-07-02 17:31 G 25205240.20 25205240.23 25205240.27 0.0487 0.0474

Uranus 64299-02-02 09:36 G 25205819.85 25205819.90 25205819.96 0.0136 0.0125

Uranus 64299-05-01 13:12 G 25205907.97 25205908.05 25205908.15 0.0136 0.0104

Uranus 64299-07-28 17:03 G 25205996.10 25205996.21 25205996.32 0.0137 0.0084

Uranus 64299-10-24 20:39 G 25206084.24 25206084.36 25206084.49 0.0137 0.0064

Uranus 64300-01-21 00:15 G 25206172.38 25206172.51 25206172.65 0.0137 0.0044

Uranus 64300-04-19 04:05 G 25206260.53 25206260.67 25206260.81 0.0137 0.0023

Uranus 64300-07-16 07:41 G 25206348.68 25206348.82 25206348.96 0.0137 0.0003

Uranus 64300-10-12 11:17 G 25206436.83 25206436.97 25206437.11 0.0137 0.0017

Uranus 64301-01-08 14:53 G 25206524.98 25206525.12 25206525.25 0.0137 0.0037

Uranus 64301-04-06 18:15 G 25206613.14 25206613.26 25206613.39 0.0137 0.0057

Uranus 64301-07-03 21:51 G 25206701.30 25206701.41 25206701.53 0.0137 0.0077

Uranus 64301-09-30 01:27 G 25206789.47 25206789.56 25206789.66 0.0137 0.0096

Uranus 64301-12-27 04:48 G 25206877.64 25206877.70 25206877.78 0.0137 0.0116

Uranus 64302-03-25 08:24 G 25206965.84 25206965.85 25206965.87 0.0137 0.0136

Jupiter 64303-03-10 18:29 G 25207316.15 25207316.27 25207316.39 0.0542 0.0220

Mars 64306-10-14 18:58 G 25208630.16 25208630.29 25208630.42 0.1615 0.0015

Saturn 64307-12-30 22:05 G 25209072.37 25209072.42 25209072.48 0.0278 0.0252

Saturn 64308-03-28 11:17 G 25209160.84 25209160.97 25209161.11 0.0278 0.0106

Saturn 64308-06-25 00:15 G 25209249.37 25209249.51 25209249.65 0.0278 0.0039

Saturn 64308-09-21 12:58 G 25209337.94 25209338.04 25209338.15 0.0279 0.0181

Jupiter 64309-01-21 20:10 G 25209460.26 25209460.34 25209460.42 0.0485 0.0422

Jupiter 64309-04-21 17:31 G 25209550.10 25209550.23 25209550.37 0.0487 0.0293

Earth 64310-05-31 02:24 G 25209954.48 25209954.60 25209954.71 0.2687 0.0102

Moon 64310-05-31 03:07 G 25209954.51 25209954.63 25209954.74 0.2687 0.0179 *

Earth 64312-11-29 07:41 G 25210867.70 25210867.82 25210867.93 0.2644 0.1550

Moon 64312-11-29 08:53 G 25210867.75 25210867.87 25210867.99 0.2643 0.1329 *

Venus 64314-07-05 08:24 G 25211450.75 25211450.85 25211450.95 0.3683 0.1152

Jupiter 64314-12-27 21:07 G 25211626.24 25211626.38 25211626.51 0.0542 0.0026

Pluto 64315-10-18 18:58 G 25211921.20 25211921.29 25211921.38 0.0078 0.0065

Pluto 64316-01-14 20:53 G 25212009.23 25212009.37 25212009.51 0.0078 0.0044

Venus 64316-01-18 17:46 G 25212013.14 25212013.24 25212013.35 0.3687 0.2402

Mars 64316-03-06 03:51 G 25212060.54 25212060.66 25212060.78 0.1615 0.0789

Pluto 64316-04-11 22:34 G 25212097.29 25212097.44 25212097.62 0.0078 0.0023

Pluto 64316-07-09 00:43 G 25212185.36 25212185.53 25212185.70 0.0078 0.0002

Pluto 64316-10-05 02:39 G 25212273.45 25212273.61 25212273.78 0.0078 0.0020

Pluto 64317-01-01 04:19 G 25212361.55 25212361.68 25212361.84 0.0078 0.0041

Pluto 64317-03-30 06:15 G 25212449.67 25212449.76 25212449.88 0.0077 0.0061

Venus 64320-01-19 00:58 G 25213474.44 25213474.54 25213474.63 0.3683 0.1652

Jupiter 64321-02-07 17:31 G 25213860.07 25213860.23 25213860.40 0.0486 0.0114

Saturn 64322-04-19 08:53 G 25214295.84 25214295.87 25214295.93 0.0282 0.0271

Saturn 64322-07-17 03:36 G 25214384.49 25214384.65 25214384.81 0.0281 0.0096

Mars 64322-10-09 14:53 G 25214468.98 25214469.12 25214469.26 0.1908 0.0367

Saturn 64322-10-13 22:19 G 25214473.27 25214473.43 25214473.59 0.0281 0.0082

Saturn 64323-01-10 17:17 G 25214562.17 25214562.22 25214562.29 0.0281 0.0262

Earth 64323-06-02 21:22 G 25214705.29 25214705.39 25214705.49 0.2685 0.1228

Moon 64323-06-02 22:05 G 25214705.32 25214705.42 25214705.52 0.2682 0.1230 *

Mars 64325-07-27 12:29 G 25215491.00 25215491.02 25215491.03 0.1615 0.1599

Earth 64325-12-02 09:51 G 25215618.77 25215618.91 25215619.06 0.2646 0.0266

Moon 64325-12-02 10:48 G 25215618.80 25215618.95 25215619.09 0.2640 0.0257 *

Jupiter 64326-10-15 23:03 G 25215936.33 25215936.46 25215936.59 0.0543 0.0186

Moon 64330-05-26 16:34 G 25217255.13 25217255.19 25217255.26 0.2695 0.2236

Earth 64330-05-26 16:34 G 25217255.13 25217255.19 25217255.25 0.2689 0.2248 *

Mars 64332-02-29 17:03 G 25217899.10 25217899.21 25217899.32 0.1908 0.1190

Jupiter 64332-11-26 18:00 G 25218170.08 25218170.25 25218170.42 0.0485 0.0061

Earth 64336-06-04 16:19 G 25219456.13 25219456.18 25219456.23 0.2684 0.2404

Moon 64336-06-04 16:19 G 25219456.14 25219456.18 25219456.22 0.2678 0.2456 *

Mars 64336-11-22 10:05 G 25219626.81 25219626.92 25219627.03 0.1615 0.0899

Saturn 64337-08-15 13:41 G 25219892.95 25219893.07 25219893.20 0.0277 0.0141

Saturn 64337-11-12 02:53 G 25219981.47 25219981.62 25219981.76 0.0277 0.0007

Saturn 64338-02-08 15:36 G 25220070.03 25220070.15 25220070.27 0.0278 0.0145

Jupiter 64338-08-04 01:55 G 25220246.48 25220246.58 25220246.68 0.0544 0.0378

Jupiter 64338-11-01 13:55 G 25220335.99 25220336.08 25220336.16 0.0542 0.0410

Moon 64338-12-05 12:29 G 25220369.94 25220370.02 25220370.11 0.2641 0.2138

Earth 64338-12-05 12:43 G 25220369.95 25220370.03 25220370.12 0.2647 0.2132 *

Uranus 64339-11-21 17:17 G 25220721.14 25220721.22 25220721.31 0.0142 0.0123

Uranus 64340-02-17 23:46 G 25220809.37 25220809.49 25220809.63 0.0142 0.0095

Uranus 64340-05-16 06:29 G 25220897.63 25220897.77 25220897.94 0.0141 0.0068

Uranus 64340-08-12 13:27 G 25220985.89 25220986.06 25220986.23 0.0141 0.0039

Uranus 64340-11-08 20:24 G 25221074.17 25221074.35 25221074.52 0.0141 0.0011

Uranus 64341-02-05 03:07 G 25221162.45 25221162.63 25221162.81 0.0141 0.0018

Uranus 64341-05-04 09:51 G 25221250.75 25221250.91 25221251.09 0.0141 0.0047

Uranus 64341-07-31 16:48 G 25221339.06 25221339.20 25221339.36 0.0141 0.0075

Uranus 64341-10-27 23:46 G 25221427.38 25221427.49 25221427.62 0.0141 0.0104

Uranus 64342-01-24 06:43 G 25221515.73 25221515.78 25221515.85 0.0141 0.0133

Earth 64343-05-29 12:00 G 25222005.89 25222006.00 25222006.11 0.2688 0.0984

Moon 64343-05-29 12:29 G 25222005.92 25222006.02 25222006.13 0.2693 0.0900 *

Jupiter 64344-09-14 18:15 G 25222480.11 25222480.26 25222480.41 0.0485 0.0238

Jupiter 64344-12-13 16:05 G 25222570.16 25222570.17 25222570.18 0.0487 0.0484

Mars 64346-04-14 19:12 G 25223057.16 25223057.30 25223057.43 0.1615 0.0134

Jupiter 64350-08-20 17:17 G 25224646.10 25224646.22 25224646.34 0.0542 0.0230

Saturn 64351-12-04 01:27 G 25225116.43 25225116.56 25225116.69 0.0282 0.0166

Saturn 64352-03-01 19:55 G 25225205.16 25225205.33 25225205.50 0.0281 0.0011

Saturn 64352-05-29 14:53 G 25225294.00 25225294.12 25225294.25 0.0281 0.0189

Mars 64355-09-05 03:51 G 25226487.54 25226487.66 25226487.79 0.1615 0.0663

Earth 64356-05-31 07:12 G 25226756.69 25226756.80 25226756.92 0.2687 0.0266

Moon 64356-05-31 08:10 G 25226756.72 25226756.84 25226756.95 0.2686 0.0293 *

Jupiter 64356-07-03 18:58 G 25226790.20 25226790.29 25226790.38 0.0485 0.0407

Jupiter 64356-10-01 16:19 G 25226880.05 25226880.18 25226880.31 0.0486 0.0306

Earth 64358-11-30 13:27 G 25227669.94 25227670.06 25227670.19 0.2645 0.1225

Moon 64358-11-30 14:39 G 25227669.98 25227670.11 25227670.24 0.2642 0.1196 *

Mars 64362-04-09 15:07 G 25228895.99 25228896.13 25228896.26 0.1908 0.0535

Jupiter 64362-06-08 20:10 G 25228956.20 25228956.34 25228956.47 0.0542 0.0042

Neptune 64362-09-04 03:07 G 25229043.60 25229043.63 25229043.69 0.0089 0.0085

Neptune 64362-12-01 05:03 G 25229131.64 25229131.71 25229131.79 0.0089 0.0076

Neptune 64363-02-27 06:43 G 25229219.69 25229219.78 25229219.88 0.0089 0.0067

Neptune 64363-05-26 08:10 G 25229307.75 25229307.84 25229307.96 0.0089 0.0060

Neptune 64363-08-22 10:05 G 25229395.81 25229395.92 25229396.04 0.0089 0.0051

Neptune 64363-11-18 11:46 G 25229483.87 25229483.99 25229484.12 0.0089 0.0042

Neptune 64364-02-14 13:12 G 25229571.93 25229572.05 25229572.19 0.0089 0.0035

Neptune 64364-05-12 14:53 G 25229659.99 25229660.12 25229660.26 0.0089 0.0026

Neptune 64364-08-08 16:34 G 25229748.06 25229748.19 25229748.33 0.0089 0.0018

Neptune 64364-11-04 18:15 G 25229836.12 25229836.26 25229836.40 0.0089 0.0010

Mars 64365-01-25 12:43 G 25229917.97 25229918.03 25229918.08 0.1615 0.1460

Neptune 64365-01-31 19:55 G 25229924.19 25229924.33 25229924.47 0.0089 0.0002

Neptune 64365-04-29 21:22 G 25230012.25 25230012.39 25230012.54 0.0089 0.0007

Venus 64365-07-26 13:27 G 25230100.00 25230100.06 25230100.13 0.3684 0.2936

Neptune 64365-07-26 23:03 G 25230100.32 25230100.46 25230100.60 0.0089 0.0015

Neptune 64365-10-23 00:29 G 25230188.39 25230188.52 25230188.66 0.0089 0.0023

Neptune 64366-01-19 02:10 G 25230276.46 25230276.59 25230276.72 0.0089 0.0031

Neptune 64366-04-17 03:36 G 25230364.53 25230364.65 25230364.78 0.0089 0.0039

Neptune 64366-07-14 05:03 G 25230452.60 25230452.71 25230452.84 0.0089 0.0048

Neptune 64366-10-10 06:43 G 25230540.68 25230540.78 25230540.90 0.0089 0.0055

Saturn 64367-01-02 14:10 G 25230625.00 25230625.09 25230625.20 0.0277 0.0196

Neptune 64367-01-06 08:24 G 25230628.75 25230628.85 25230628.95 0.0089 0.0063

Saturn 64367-04-01 03:22 G 25230713.50 25230713.64 25230713.78 0.0278 0.0050

Neptune 64367-04-04 09:51 G 25230716.83 25230716.91 25230717.00 0.0089 0.0071

Saturn 64367-06-28 16:19 G 25230802.04 25230802.18 25230802.31 0.0278 0.0093

Neptune 64367-07-01 11:17 G 25230804.92 25230804.97 25230805.04 0.0089 0.0079

Saturn 64367-09-25 04:48 G 25230890.63 25230890.70 25230890.78 0.0279 0.0235

Neptune 64367-09-27 12:43 G 25230893.01 25230893.03 25230893.07 0.0089 0.0087

Jupiter 64368-07-20 16:19 G 25231190.02 25231190.18 25231190.35 0.0486 0.0127

Earth 64369-06-03 02:24 G 25231507.50 25231507.60 25231507.69 0.2685 0.1454

Moon 64369-06-03 02:53 G 25231507.53 25231507.62 25231507.72 0.2681 0.1587 *

Venus 64371-02-09 06:00 G 25232123.65 25232123.75 25232123.86 0.3683 0.0142

Mars 64371-08-30 17:17 G 25232326.10 25232326.22 25232326.34 0.1908 0.1014

Earth 64371-12-03 16:05 G 25232421.02 25232421.17 25232421.31 0.2646 0.0600

Moon 64371-12-03 16:34 G 25232421.05 25232421.19 25232421.33 0.2640 0.0753 *

Venus 64372-08-24 18:15 G 25232686.12 25232686.26 25232686.40 0.3688 0.0278

Jupiter 64374-03-27 22:34 G 25233266.31 25233266.44 25233266.57 0.0543 0.0161

Mars 64376-05-23 10:19 G 25234053.83 25234053.93 25234054.03 0.1616 0.1030

Earth 64376-05-26 21:36 G 25234057.32 25234057.40 25234057.48 0.2689 0.2010

Moon 64376-05-26 21:51 G 25234057.34 25234057.41 25234057.49 0.2695 0.2030 *

Venus 64376-08-24 22:34 G 25234147.37 25234147.44 25234147.51 0.3682 0.2685

Jupiter 64380-05-08 16:48 G 25235500.03 25235500.20 25235500.37 0.0486 0.0048

Saturn 64381-04-22 01:41 G 25235848.47 25235848.57 25235848.68 0.0282 0.0214

Saturn 64381-07-19 20:24 G 25235937.18 25235937.35 25235937.51 0.0281 0.0038

Saturn 64381-10-16 15:07 G 25236025.99 25236026.13 25236026.28 0.0281 0.0141

Moon 64382-06-05 21:22 G 25236258.35 25236258.39 25236258.42 0.2677 0.2548

Earth 64382-06-05 21:22 G 25236258.37 25236258.39 25236258.41 0.2684 0.2627 *

Uranus 64383-02-23 16:34 G 25236521.13 25236521.19 25236521.27 0.0136 0.0119

Uranus 64383-05-22 20:24 G 25236609.26 25236609.35 25236609.45 0.0137 0.0099

Uranus 64383-08-19 00:00 G 25236697.39 25236697.50 25236697.62 0.0137 0.0079

Uranus 64383-11-15 03:51 G 25236785.53 25236785.66 25236785.79 0.0137 0.0058

Uranus 64384-02-11 07:27 G 25236873.68 25236873.81 25236873.95 0.0137 0.0038

Uranus 64384-05-09 11:03 G 25236961.83 25236961.96 25236962.10 0.0137 0.0018

Uranus 64384-08-05 14:53 G 25237049.98 25237050.12 25237050.26 0.0137 0.0004

Uranus 64384-11-01 18:15 G 25237138.13 25237138.26 25237138.40 0.0137 0.0023

Moon 64384-12-05 18:29 G 25237172.20 25237172.27 25237172.33 0.2641 0.2360

Earth 64384-12-05 18:58 G 25237172.24 25237172.29 25237172.33 0.2647 0.2488 *

Uranus 64385-01-28 22:05 G 25237226.28 25237226.42 25237226.55 0.0137 0.0042

Uranus 64385-04-27 01:27 G 25237314.44 25237314.56 25237314.69 0.0137 0.0062

Uranus 64385-07-24 05:03 G 25237402.60 25237402.71 25237402.82 0.0137 0.0082

Mars 64385-10-13 19:12 G 25237484.17 25237484.30 25237484.43 0.1615 0.0258

Uranus 64385-10-20 08:24 G 25237490.77 25237490.85 25237490.95 0.0137 0.0102

Jupiter 64386-01-14 00:15 G 25237576.41 25237576.51 25237576.61 0.0543 0.0376

Uranus 64386-01-16 12:00 G 25237578.95 25237579.00 25237579.07 0.0137 0.0122

Jupiter 64386-04-13 12:15 G 25237665.93 25237666.01 25237666.10 0.0542 0.0411

Earth 64389-05-29 17:03 G 25238808.10 25238808.21 25238808.32 0.2688 0.0750

Moon 64389-05-29 17:46 G 25238808.13 25238808.24 25238808.35 0.2692 0.0687 *

Moon 64391-11-28 18:43 G 25239721.25 25239721.28 25239721.32 0.2645 0.2567

Jupiter 64392-02-25 17:17 G 25239810.07 25239810.22 25239810.37 0.0485 0.0219

Mars 64395-03-06 04:05 G 25240914.55 25240914.67 25240914.80 0.1615 0.0531

Saturn 64396-05-21 16:48 G 25241357.13 25241357.20 25241357.28 0.0277 0.0229

Saturn 64396-08-18 06:00 G 25241445.61 25241445.75 25241445.89 0.0277 0.0084

Saturn 64396-11-14 18:58 G 25241534.15 25241534.29 25241534.43 0.0277 0.0059

Saturn 64397-02-11 07:27 G 25241622.72 25241622.81 25241622.91 0.0278 0.0201

Jupiter 64398-01-30 15:22 G 25241976.02 25241976.14 25241976.26 0.0543 0.0228

Mars 64401-10-08 15:22 G 25243323.01 25243323.14 25243323.27 0.1908 0.0711

Earth 64402-06-01 12:15 G 25243558.90 25243559.01 25243559.13 0.2686 0.0484

Moon 64402-06-01 13:12 G 25243558.93 25243559.05 25243559.16 0.2685 0.0614 *

Jupiter 64403-12-14 17:31 G 25244120.14 25244120.23 25244120.33 0.0485 0.0395

Jupiter 64404-03-13 14:53 G 25244209.99 25244210.12 25244210.25 0.0486 0.0318

Mars 64404-07-26 12:43 G 25244344.96 25244345.03 25244345.11 0.1615 0.1331

Earth 64404-11-30 19:27 G 25244472.18 25244472.31 25244472.45 0.2645 0.0896

Moon 64404-11-30 20:39 G 25244472.22 25244472.36 25244472.50 0.2640 0.0710 *

Jupiter 64409-11-18 18:43 G 25246286.14 25246286.28 25246286.41 0.0543 0.0046

Saturn 64410-09-09 00:00 G 25246580.49 25246580.50 25246580.53 0.0282 0.0279

Saturn 64410-12-06 18:29 G 25246669.11 25246669.27 25246669.42 0.0282 0.0105

Mars 64411-02-28 17:17 G 25246753.10 25246753.22 25246753.35 0.1908 0.0862

Saturn 64411-03-05 13:12 G 25246757.88 25246758.05 25246758.21 0.0281 0.0072

Saturn 64411-06-02 08:10 G 25246846.77 25246846.84 25246846.91 0.0281 0.0251

Earth 64415-06-04 07:27 G 25248309.72 25248309.81 25248309.89 0.2685 0.1680

Moon 64415-06-04 07:41 G 25248309.74 25248309.82 25248309.91 0.2680 0.1667 *

Mars 64415-11-22 10:19 G 25248480.84 25248480.93 25248481.03 0.1616 0.1154

Jupiter 64415-12-31 15:07 G 25248519.97 25248520.13 25248520.30 0.0486 0.0142

Earth 64417-12-03 22:05 G 25249223.28 25249223.42 25249223.55 0.2646 0.0937

Moon 64417-12-03 22:34 G 25249223.30 25249223.44 25249223.58 0.2640 0.0893 *

Jupiter 64421-09-06 21:36 G 25250596.27 25250596.40 25250596.53 0.0543 0.0147

Venus 64422-03-02 11:03 G 25250772.87 25250772.96 25250773.06 0.3684 0.1877

Moon 64422-05-28 02:53 G 25250859.53 25250859.62 25250859.71 0.2695 0.1693

Earth 64422-05-28 02:39 G 25250859.53 25250859.61 25250859.70 0.2689 0.1772 *

Uranus 64423-12-12 00:15 G 25251422.41 25251422.51 25251422.61 0.0142 0.0116

Uranus 64424-03-09 06:43 G 25251510.65 25251510.78 25251510.93 0.0141 0.0089

Uranus 64424-06-05 13:27 G 25251598.91 25251599.06 25251599.23 0.0141 0.0061

Uranus 64424-09-01 20:24 G 25251687.18 25251687.35 25251687.52 0.0141 0.0032

Uranus 64424-11-29 03:07 G 25251775.46 25251775.63 25251775.81 0.0141 0.0005

Uranus 64425-02-25 10:05 G 25251863.74 25251863.92 25251864.10 0.0141 0.0024

Mars 64425-04-13 19:27 G 25251911.18 25251911.31 25251911.44 0.1615 0.0387

Uranus 64425-05-24 16:48 G 25251952.04 25251952.20 25251952.37 0.0141 0.0053

Uranus 64425-08-20 23:31 G 25252040.35 25252040.48 25252040.64 0.0141 0.0082

Uranus 64425-11-17 06:58 G 25252128.68 25252128.79 25252128.90 0.0141 0.0110

Saturn 64426-01-05 06:29 G 25252177.64 25252177.77 25252177.89 0.0277 0.0140

Uranus 64426-02-13 13:41 G 25252217.06 25252217.07 25252217.10 0.0141 0.0139

Saturn 64426-04-03 19:27 G 25252266.17 25252266.31 25252266.45 0.0278 0.0006

Saturn 64426-07-01 08:10 G 25252354.72 25252354.84 25252354.96 0.0278 0.0147

Venus 64427-09-16 03:36 G 25252796.55 25252796.65 25252796.76 0.3683 0.0970

Jupiter 64427-10-19 15:36 G 25252829.98 25252830.15 25252830.32 0.0486 0.0037

Venus 64429-03-31 18:43 G 25253359.16 25253359.28 25253359.40 0.3688 0.1883

Jupiter 64433-06-25 23:46 G 25254906.39 25254906.49 25254906.60 0.0543 0.0348

Jupiter 64433-09-23 11:46 G 25254995.92 25254995.99 25254996.07 0.0541 0.0437

Mars 64434-09-04 04:19 G 25255341.55 25255341.68 25255341.81 0.1615 0.0397

Earth 64435-05-30 22:05 G 25255610.31 25255610.42 25255610.54 0.2687 0.0516

Moon 64435-05-30 22:48 G 25255610.34 25255610.45 25255610.57 0.2690 0.0461 *

Earth 64437-11-28 23:17 G 25256523.41 25256523.47 25256523.54 0.2643 0.2332

Moon 64437-11-29 00:43 G 25256523.45 25256523.53 25256523.60 0.2644 0.2196 *

Jupiter 64439-08-07 16:05 G 25257140.02 25257140.17 25257140.32 0.0485 0.0206

Saturn 64440-04-24 18:29 G 25257401.13 25257401.27 25257401.41 0.0282 0.0156

Saturn 64440-07-22 13:12 G 25257489.88 25257490.05 25257490.21 0.0281 0.0021

Saturn 64440-10-19 07:55 G 25257578.72 25257578.83 25257578.95 0.0281 0.0199

Mars 64441-04-08 15:36 G 25257750.03 25257750.15 25257750.28 0.1908 0.0889

Mars 64444-01-25 12:58 G 25258771.95 25258772.04 25258772.13 0.1615 0.1197

Jupiter 64445-07-12 13:55 G 25259305.96 25259306.08 25259306.20 0.0542 0.0231

Neptune 64446-05-05 19:27 G 25259603.24 25259603.31 25259603.39 0.0088 0.0079

Neptune 64446-08-01 22:05 G 25259691.33 25259691.42 25259691.54 0.0088 0.0070

Neptune 64446-10-29 00:58 G 25259779.42 25259779.54 25259779.68 0.0088 0.0060

Neptune 64447-01-25 03:51 G 25259867.53 25259867.66 25259867.82 0.0088 0.0050

Neptune 64447-04-23 06:29 G 25259955.63 25259955.77 25259955.95 0.0088 0.0041

Neptune 64447-07-20 09:36 G 25260043.74 25260043.90 25260044.07 0.0088 0.0031

Neptune 64447-10-16 12:29 G 25260131.85 25260132.02 25260132.20 0.0088 0.0021

Neptune 64448-01-12 15:22 G 25260219.97 25260220.14 25260220.32 0.0088 0.0011

Neptune 64448-04-09 18:29 G 25260308.09 25260308.27 25260308.44 0.0088 0.0003

Earth 64448-06-01 17:17 G 25260361.11 25260361.22 25260361.33 0.2686 0.0709

Moon 64448-06-01 18:15 G 25260361.14 25260361.26 25260361.37 0.2685 0.0778 *

Neptune 64448-07-06 21:07 G 25260396.21 25260396.38 25260396.56 0.0088 0.0009

Neptune 64448-10-03 00:15 G 25260484.33 25260484.51 25260484.68 0.0088 0.0018

Neptune 64448-12-30 03:07 G 25260572.46 25260572.63 25260572.80 0.0088 0.0028

Neptune 64449-03-28 06:00 G 25260660.59 25260660.75 25260660.91 0.0088 0.0038

Neptune 64449-06-24 09:07 G 25260748.73 25260748.88 25260749.03 0.0088 0.0049

Neptune 64449-09-20 12:00 G 25260836.87 25260837.00 25260837.13 0.0088 0.0059

Neptune 64449-12-17 14:39 G 25260925.01 25260925.11 25260925.24 0.0088 0.0069

Neptune 64450-03-15 17:31 G 25261013.17 25261013.23 25261013.33 0.0088 0.0079

Mars 64450-08-29 17:31 G 25261180.11 25261180.23 25261180.36 0.1908 0.0691

Earth 64450-12-02 01:27 G 25261274.42 25261274.56 25261274.70 0.2645 0.0564

Moon 64450-12-02 02:39 G 25261274.47 25261274.61 25261274.75 0.2640 0.0515 *

Jupiter 64451-05-26 16:48 G 25261450.10 25261450.20 25261450.31 0.0485 0.0374

Jupiter 64451-08-24 14:10 G 25261539.97 25261540.09 25261540.21 0.0486 0.0338

Mars 64455-05-23 10:34 G 25262907.86 25262907.94 25262908.02 0.1616 0.1277

Saturn 64455-05-25 09:07 G 25262909.77 25262909.88 25262910.00 0.0277 0.0171

Saturn 64455-08-21 22:19 G 25262998.28 25262998.43 25262998.57 0.0277 0.0027

Saturn 64455-11-18 11:03 G 25263086.83 25263086.96 25263087.09 0.0277 0.0116

Saturn 64456-02-14 23:46 G 25263175.44 25263175.49 25263175.54 0.0278 0.0256

Jupiter 64457-04-30 16:48 G 25263616.07 25263616.20 25263616.34 0.0543 0.0044

Earth 64461-06-04 12:15 G 25265111.94 25265112.01 25265112.09 0.2685 0.1906

Moon 64461-06-04 12:43 G 25265111.95 25265112.03 25265112.10 0.2679 0.1973 *

Jupiter 64463-06-12 13:55 G 25265849.92 25265850.08 25265850.24 0.0486 0.0154

Earth 64463-12-05 04:05 G 25266025.54 25266025.67 25266025.80 0.2646 0.1276

Moon 64463-12-05 04:19 G 25266025.55 25266025.68 25266025.80 0.2640 0.1370 *

Mars 64464-10-12 19:41 G 25266338.19 25266338.32 25266338.44 0.1615 0.0513

Uranus 64466-12-17 19:55 G 25267134.31 25267134.33 25267134.36 0.0136 0.0134

Uranus 64467-03-15 23:46 G 25267222.41 25267222.49 25267222.57 0.0136 0.0114

Uranus 64467-06-12 03:22 G 25267310.54 25267310.64 25267310.75 0.0137 0.0094

Uranus 64467-09-08 06:58 G 25267398.68 25267398.79 25267398.92 0.0137 0.0074

Uranus 64467-12-05 10:48 G 25267486.82 25267486.95 25267487.08 0.0137 0.0053

Uranus 64468-03-02 14:39 G 25267574.97 25267575.11 25267575.24 0.0137 0.0033

Earth 64468-05-28 07:41 G 25267661.73 25267661.82 25267661.92 0.2688 0.1533

Moon 64468-05-28 08:10 G 25267661.74 25267661.84 25267661.93 0.2695 0.1563 *

Uranus 64468-05-29 18:15 G 25267663.12 25267663.26 25267663.40 0.0137 0.0013

Uranus 64468-08-25 21:51 G 25267751.27 25267751.41 25267751.55 0.0137 0.0008

Uranus 64468-11-22 01:27 G 25267839.42 25267839.56 25267839.70 0.0137 0.0028

Jupiter 64469-02-16 19:55 G 25267926.20 25267926.33 25267926.47 0.0543 0.0144

Uranus 64469-02-18 05:03 G 25267927.58 25267927.71 25267927.84 0.0137 0.0048

Uranus 64469-05-17 08:39 G 25268015.74 25268015.86 25268015.98 0.0137 0.0068

Uranus 64469-08-13 12:15 G 25268103.90 25268104.01 25268104.11 0.0137 0.0087

Saturn 64469-09-11 17:03 G 25268133.11 25268133.21 25268133.31 0.0282 0.0219

Uranus 64469-11-09 15:36 G 25268192.07 25268192.15 25268192.24 0.0137 0.0107

Saturn 64469-12-09 11:31 G 25268221.81 25268221.98 25268222.14 0.0282 0.0045

Uranus 64470-02-05 18:58 G 25268280.25 25268280.29 25268280.35 0.0137 0.0128

Saturn 64470-03-08 06:15 G 25268310.61 25268310.76 25268310.91 0.0281 0.0133

Venus 64473-03-23 16:05 G 25269422.17 25269422.17 25269422.18 0.3684 0.3680

Mars 64474-03-05 04:34 G 25269768.56 25269768.69 25269768.82 0.1615 0.0268

Jupiter 64475-03-31 14:24 G 25270159.93 25270160.10 25270160.27 0.0485 0.0023

Pluto 64476-02-09 21:22 G 25270475.34 25270475.39 25270475.46 0.0065 0.0059

Pluto 64476-05-07 21:51 G 25270563.33 25270563.41 25270563.53 0.0065 0.0049

Pluto 64476-08-03 22:48 G 25270651.34 25270651.45 25270651.58 0.0065 0.0037

Pluto 64476-10-30 23:31 G 25270739.35 25270739.48 25270739.62 0.0066 0.0027

Pluto 64477-01-27 00:15 G 25270827.37 25270827.51 25270827.65 0.0066 0.0016

Pluto 64477-04-25 00:58 G 25270915.39 25270915.54 25270915.69 0.0066 0.0005

Pluto 64477-07-22 01:27 G 25271003.42 25271003.56 25271003.71 0.0066 0.0006

Pluto 64477-10-18 02:10 G 25271091.45 25271091.59 25271091.74 0.0066 0.0016

Pluto 64478-01-14 02:53 G 25271179.49 25271179.62 25271179.76 0.0066 0.0027

Pluto 64478-04-12 03:22 G 25271267.53 25271267.64 25271267.77 0.0066 0.0038

Pluto 64478-07-09 04:05 G 25271355.58 25271355.67 25271355.78 0.0066 0.0049

Pluto 64478-10-05 04:34 G 25271443.65 25271443.69 25271443.77 0.0066 0.0061

Venus 64478-10-07 08:53 G 25271445.76 25271445.87 25271445.97 0.3684 0.0804

Venus 64480-04-21 15:51 G 25272008.05 25272008.16 25272008.28 0.3687 0.2178

Mars 64480-10-07 15:51 G 25272177.04 25272177.16 25272177.27 0.1908 0.1047

Jupiter 64480-12-05 22:48 G 25272236.34 25272236.45 25272236.56 0.0543 0.0335

Jupiter 64481-03-05 10:48 G 25272325.88 25272325.95 25272326.02 0.0542 0.0450

Earth 64481-05-31 03:07 G 25272412.51 25272412.63 25272412.75 0.2687 0.0283

Moon 64481-05-31 03:51 G 25272412.55 25272412.66 25272412.78 0.2689 0.0169 *

Mars 64483-07-26 13:12 G 25273198.95 25273199.05 25273199.15 0.1615 0.1061

Earth 64483-11-30 05:17 G 25273325.63 25273325.72 25273325.81 0.2644 0.2007

Moon 64483-11-30 06:29 G 25273325.67 25273325.77 25273325.88 0.2642 0.1853 *

Venus 64484-04-22 01:27 G 25273469.47 25273469.56 25273469.65 0.3683 0.1999

Saturn 64484-10-11 09:36 G 25273641.82 25273641.90 25273641.98 0.0277 0.0227

Saturn 64485-01-07 22:34 G 25273730.31 25273730.44 25273730.58 0.0277 0.0083

Saturn 64485-04-06 11:31 G 25273818.84 25273818.98 25273819.12 0.0278 0.0061

Saturn 64485-07-04 00:15 G 25273907.42 25273907.51 25273907.61 0.0278 0.0202

Jupiter 64487-01-17 14:39 G 25274469.96 25274470.11 25274470.27 0.0485 0.0196

Mars 64490-02-27 18:00 G 25275607.12 25275607.25 25275607.39 0.1908 0.0499

Jupiter 64492-09-24 00:58 G 25276546.53 25276546.54 25276546.56 0.0543 0.0539

Jupiter 64492-12-22 13:27 G 25276635.95 25276636.06 25276636.18 0.0542 0.0258

Earth 64494-06-02 22:19 G 25277163.32 25277163.43 25277163.54 0.2686 0.0935

Moon 64494-06-02 23:03 G 25277163.35 25277163.46 25277163.57 0.2684 0.1020 *

Mars 64494-11-21 10:48 G 25277334.89 25277334.95 25277335.01 0.1616 0.1407

Earth 64496-12-02 07:27 G 25278076.67 25278076.81 25278076.96 0.2645 0.0237

Moon 64496-12-02 08:24 G 25278076.71 25278076.85 25278077.00 0.2640 0.0118 *

Jupiter 64498-11-05 15:36 G 25278780.04 25278780.15 25278780.26 0.0485 0.0362

Saturn 64499-01-29 16:48 G 25278865.17 25278865.20 25278865.25 0.0282 0.0272

Jupiter 64499-02-03 12:43 G 25278869.92 25278870.03 25278870.15 0.0486 0.0352

Saturn 64499-04-28 11:17 G 25278953.81 25278953.97 25278954.13 0.0282 0.0098

Saturn 64499-07-26 06:00 G 25279042.59 25279042.75 25279042.91 0.0281 0.0079

Saturn 64499-10-23 00:58 G 25279131.48 25279131.54 25279131.61 0.0281 0.0259

Earth 64501-05-27 17:17 G 25279713.19 25279713.22 25279713.25 0.2689 0.2570

Moon 64501-05-27 17:17 G 25279713.20 25279713.22 25279713.23 0.2697 0.2652 *

Mars 64504-04-13 19:55 G 25280765.20 25280765.33 25280765.45 0.1615 0.0642

Jupiter 64504-10-11 15:22 G 25280946.00 25280946.14 25280946.27 0.0543 0.0046

Earth 64507-06-06 17:17 G 25281914.15 25281914.22 25281914.29 0.2685 0.2124

Moon 64507-06-06 17:31 G 25281914.16 25281914.23 25281914.30 0.2678 0.2113 *

Uranus 64507-10-06 00:15 G 25282035.48 25282035.51 25282035.57 0.0142 0.0137

Uranus 64508-01-02 07:12 G 25282123.69 25282123.80 25282123.91 0.0142 0.0109

Uranus 64508-03-30 13:41 G 25282211.94 25282212.07 25282212.22 0.0141 0.0081

Uranus 64508-06-26 20:24 G 25282300.20 25282300.35 25282300.52 0.0141 0.0054

Uranus 64508-09-23 03:22 G 25282388.47 25282388.64 25282388.82 0.0141 0.0025

Uranus 64508-12-20 10:05 G 25282476.75 25282476.92 25282477.10 0.0141 0.0005

Uranus 64509-03-18 17:03 G 25282565.04 25282565.21 25282565.39 0.0141 0.0032

Uranus 64509-06-15 00:00 G 25282653.34 25282653.50 25282653.66 0.0141 0.0060

Uranus 64509-09-11 06:43 G 25282741.65 25282741.78 25282741.93 0.0141 0.0089

Moon 64509-12-06 09:51 G 25282827.80 25282827.91 25282828.04 0.2640 0.1531

Earth 64509-12-06 10:05 G 25282827.80 25282827.92 25282828.03 0.2646 0.1615 *

Uranus 64509-12-08 13:27 G 25282829.98 25282830.06 25282830.18 0.0141 0.0118

Jupiter 64510-11-23 12:58 G 25283179.89 25283180.04 25283180.20 0.0486 0.0175

Mars 64513-09-04 04:48 G 25284195.56 25284195.70 25284195.83 0.1615 0.0148

Saturn 64514-03-01 12:29 G 25284373.97 25284374.02 25284374.07 0.0277 0.0257

Saturn 64514-05-29 01:41 G 25284462.44 25284462.57 25284462.70 0.0277 0.0112

Earth 64514-05-30 12:43 G 25284463.93 25284464.03 25284464.14 0.2688 0.1298

Moon 64514-05-30 13:12 G 25284463.95 25284464.05 25284464.16 0.2694 0.1184 *

Saturn 64514-08-25 14:39 G 25284550.97 25284551.11 25284551.25 0.0277 0.0032

Saturn 64514-11-22 03:22 G 25284639.53 25284639.64 25284639.75 0.0278 0.0173

Jupiter 64516-07-30 18:00 G 25285256.12 25285256.25 25285256.38 0.0543 0.0148

Mars 64520-04-08 16:05 G 25286604.07 25286604.17 25286604.28 0.1908 0.1235

Jupiter 64522-09-11 12:58 G 25287489.87 25287490.04 25287490.21 0.0485 0.0009

Mars 64523-01-25 13:27 G 25287625.95 25287626.06 25287626.17 0.1615 0.0930

Neptune 64527-03-06 01:12 G 25289126.54 25289126.55 25289126.59 0.0089 0.0088

Neptune 64527-06-02 03:22 G 25289214.57 25289214.64 25289214.70 0.0089 0.0079

Earth 64527-06-02 08:10 G 25289214.72 25289214.84 25289214.96 0.2687 0.0055

Moon 64527-06-02 08:53 G 25289214.76 25289214.87 25289214.99 0.2688 0.0102 *

Neptune 64527-08-29 04:48 G 25289302.62 25289302.70 25289302.79 0.0089 0.0071

Neptune 64527-11-25 06:15 G 25289390.67 25289390.76 25289390.88 0.0089 0.0063

Neptune 64528-02-21 07:55 G 25289478.73 25289478.83 25289478.96 0.0089 0.0055

Jupiter 64528-05-18 21:07 G 25289566.27 25289566.38 25289566.49 0.0544 0.0335

Neptune 64528-05-19 09:51 G 25289566.79 25289566.91 25289567.03 0.0089 0.0046

Neptune 64528-08-15 11:31 G 25289654.85 25289654.98 25289655.11 0.0089 0.0037

Jupiter 64528-08-16 09:07 G 25289655.81 25289655.88 25289655.95 0.0542 0.0453

Saturn 64528-09-15 10:19 G 25289685.80 25289685.93 25289686.07 0.0282 0.0156

Neptune 64528-11-11 12:58 G 25289742.91 25289743.04 25289743.18 0.0089 0.0030

Saturn 64528-12-13 04:48 G 25289774.54 25289774.70 25289774.87 0.0282 0.0022

Neptune 64529-02-07 14:39 G 25289830.98 25289831.11 25289831.25 0.0089 0.0021

Saturn 64529-03-11 23:46 G 25289863.37 25289863.49 25289863.61 0.0281 0.0198

Neptune 64529-05-06 16:19 G 25289919.04 25289919.18 25289919.32 0.0089 0.0013

Neptune 64529-08-02 18:00 G 25290007.11 25290007.25 25290007.39 0.0089 0.0005

Mars 64529-08-29 18:00 G 25290034.11 25290034.25 25290034.38 0.1908 0.0359

Venus 64529-10-29 13:55 G 25290095.00 25290095.08 25290095.15 0.3684 0.2594

Neptune 64529-10-29 19:41 G 25290095.18 25290095.32 25290095.46 0.0089 0.0004

Earth 64529-12-01 11:17 G 25290127.86 25290127.97 25290128.08 0.2644 0.1688

Moon 64529-12-01 12:29 G 25290127.91 25290128.02 25290128.14 0.2641 0.1616 *

Neptune 64530-01-25 21:07 G 25290183.25 25290183.38 25290183.52 0.0089 0.0012

Neptune 64530-04-23 22:48 G 25290271.32 25290271.45 25290271.59 0.0089 0.0020

Neptune 64530-07-21 00:15 G 25290359.39 25290359.51 25290359.65 0.0089 0.0028

Neptune 64530-10-17 01:55 G 25290447.46 25290447.58 25290447.71 0.0089 0.0036

Neptune 64531-01-13 03:22 G 25290535.53 25290535.64 25290535.77 0.0089 0.0044

Neptune 64531-04-11 04:48 G 25290623.60 25290623.70 25290623.83 0.0089 0.0053

Neptune 64531-07-08 06:29 G 25290711.68 25290711.77 25290711.88 0.0089 0.0060

Neptune 64531-10-04 07:55 G 25290799.75 25290799.83 25290799.93 0.0089 0.0068

Neptune 64531-12-31 09:36 G 25290887.84 25290887.90 25290887.98 0.0089 0.0076

Neptune 64532-03-28 11:03 G 25290975.92 25290975.96 25290976.02 0.0089 0.0084

Mars 64534-05-23 11:03 G 25291761.92 25291761.96 25291762.00 0.1616 0.1529

Jupiter 64534-06-30 13:27 G 25291799.91 25291800.06 25291800.22 0.0485 0.0182

Venus 64535-05-15 06:29 G 25292118.66 25292118.77 25292118.88 0.3683 0.0263

Venus 64536-11-27 16:19 G 25292681.04 25292681.18 25292681.32 0.3687 0.0052

Mars 64539-01-19 20:39 G 25293464.33 25293464.36 25293464.39 0.1908 0.1853

Jupiter 64540-03-06 23:46 G 25293876.47 25293876.49 25293876.52 0.0544 0.0530

Earth 64540-06-04 03:22 G 25293965.53 25293965.64 25293965.74 0.2686 0.1163

Moon 64540-06-04 03:51 G 25293965.56 25293965.66 25293965.77 0.2682 0.1256 *

Jupiter 64540-06-04 12:15 G 25293965.90 25293966.01 25293966.13 0.0542 0.0268

Venus 64540-11-27 23:03 G 25294142.40 25294142.46 25294142.52 0.3682 0.3033

Earth 64542-12-04 13:27 G 25294878.92 25294879.06 25294879.20 0.2645 0.0099

Moon 64542-12-04 14:10 G 25294878.95 25294879.09 25294879.24 0.2640 0.0176 *

Mars 64543-10-13 19:55 G 25295192.22 25295192.33 25295192.45 0.1615 0.0770

Saturn 64543-10-16 01:55 G 25295194.47 25295194.58 25295194.70 0.0277 0.0167

Saturn 64544-01-12 15:07 G 25295282.99 25295283.13 25295283.27 0.0277 0.0023

Saturn 64544-04-10 03:51 G 25295371.54 25295371.66 25295371.79 0.0278 0.0119

Saturn 64544-07-07 16:34 G 25295460.14 25295460.19 25295460.24 0.0278 0.0260

Jupiter 64546-04-18 13:55 G 25296109.97 25296110.08 25296110.20 0.0485 0.0354

Jupiter 64546-07-17 11:17 G 25296199.86 25296199.97 25296200.08 0.0486 0.0360

Moon 64547-05-28 22:19 G 25296515.37 25296515.43 25296515.49 0.2697 0.2285

Earth 64547-05-28 22:19 G 25296515.37 25296515.43 25296515.49 0.2689 0.2332 *

Uranus 64551-01-08 02:39 G 25297835.58 25297835.61 25297835.67 0.0136 0.0130

Uranus 64551-04-06 06:43 G 25297923.70 25297923.78 25297923.87 0.0136 0.0109

Uranus 64551-07-03 10:19 G 25298011.83 25298011.93 25298012.04 0.0137 0.0088

Uranus 64551-09-29 14:10 G 25298099.97 25298100.09 25298100.21 0.0137 0.0068

Uranus 64551-12-26 17:46 G 25298188.11 25298188.24 25298188.38 0.0137 0.0048

Jupiter 64552-03-23 14:53 G 25298275.99 25298276.12 25298276.26 0.0542 0.0073

Uranus 64552-03-23 21:36 G 25298276.26 25298276.40 25298276.54 0.0137 0.0027 *

Uranus 64552-06-20 01:12 G 25298364.41 25298364.55 25298364.69 0.0137 0.0007

Uranus 64552-09-16 04:48 G 25298452.56 25298452.70 25298452.84 0.0137 0.0013

Uranus 64552-12-13 08:24 G 25298540.72 25298540.85 25298540.99 0.0137 0.0033

Mars 64553-03-05 05:03 G 25298622.57 25298622.71 25298622.84 0.1615 0.0045

Uranus 64553-03-11 12:00 G 25298628.88 25298629.00 25298629.13 0.0137 0.0053

Earth 64553-06-06 22:19 G 25298716.38 25298716.43 25298716.48 0.2685 0.2344

Moon 64553-06-06 22:34 G 25298716.39 25298716.44 25298716.49 0.2678 0.2373 *

Uranus 64553-06-07 15:36 G 25298717.04 25298717.15 25298717.27 0.0137 0.0073

Uranus 64553-09-03 18:58 G 25298805.20 25298805.29 25298805.40 0.0137 0.0094

Uranus 64553-11-30 22:48 G 25298893.37 25298893.45 25298893.53 0.0137 0.0112

Uranus 64554-02-27 02:10 G 25298981.56 25298981.59 25298981.63 0.0137 0.0132

Moon 64555-12-07 15:51 G 25299630.07 25299630.16 25299630.26 0.2640 0.1990

Earth 64555-12-07 16:05 G 25299630.08 25299630.17 25299630.27 0.2647 0.1960 *

Saturn 64558-02-02 09:51 G 25300417.81 25300417.91 25300418.03 0.0282 0.0211

Saturn 64558-05-02 04:34 G 25300506.52 25300506.69 25300506.85 0.0282 0.0037

Jupiter 64558-05-05 11:46 G 25300509.83 25300509.99 25300510.15 0.0486 0.0186

Saturn 64558-07-29 23:17 G 25300595.32 25300595.47 25300595.61 0.0281 0.0142

Mars 64559-10-08 16:19 G 25301031.09 25301031.18 25301031.27 0.1908 0.1401

Earth 64560-05-30 17:46 G 25301266.14 25301266.24 25301266.35 0.2688 0.1063

Moon 64560-05-30 18:29 G 25301266.16 25301266.27 25301266.38 0.2692 0.1060 *

Mars 64562-07-26 13:41 G 25302052.95 25302053.07 25302053.18 0.1615 0.0799

Jupiter 64564-01-10 16:34 G 25302586.06 25302586.19 25302586.32 0.0543 0.0145

Pluto 64564-02-10 23:17 G 25302617.44 25302617.47 25302617.52 0.0078 0.0076

Pluto 64564-05-09 01:12 G 25302705.44 25302705.55 25302705.68 0.0078 0.0055

Pluto 64564-08-05 03:22 G 25302793.49 25302793.64 25302793.80 0.0078 0.0033

Pluto 64564-11-01 05:17 G 25302881.55 25302881.72 25302881.89 0.0078 0.0012

Pluto 64565-01-28 07:12 G 25302969.63 25302969.80 25302969.97 0.0078 0.0009

Pluto 64565-04-26 08:53 G 25303057.72 25303057.87 25303058.04 0.0078 0.0030

Pluto 64565-07-23 10:48 G 25303145.83 25303145.95 25303146.09 0.0078 0.0051

Pluto 64565-10-19 12:29 G 25303233.98 25303234.02 25303234.11 0.0077 0.0072

Mars 64569-02-27 18:29 G 25304461.13 25304461.27 25304461.41 0.1908 0.0173

Jupiter 64570-02-21 12:00 G 25304819.83 25304820.00 25304820.17 0.0485 0.0014

Mars 64571-12-16 22:05 G 25305483.41 25305483.42 25305483.44 0.1616 0.1604

Saturn 64573-03-04 05:03 G 25305926.61 25305926.71 25305926.82 0.0277 0.0195

Saturn 64573-05-31 18:15 G 25306015.12 25306015.26 25306015.40 0.0277 0.0050

Earth 64573-06-02 13:12 G 25306016.93 25306017.05 25306017.16 0.2687 0.0184

Moon 64573-06-02 13:55 G 25306016.97 25306017.08 25306017.20 0.2688 0.0339 *

Saturn 64573-08-28 07:12 G 25306103.67 25306103.80 25306103.93 0.0277 0.0093

Saturn 64573-11-24 19:55 G 25306192.25 25306192.33 25306192.40 0.0278 0.0233

Jupiter 64575-10-29 18:58 G 25306896.19 25306896.29 25306896.40 0.0544 0.0344

Earth 64575-12-02 17:17 G 25306930.10 25306930.22 25306930.34 0.2644 0.1358

Moon 64575-12-02 18:29 G 25306930.14 25306930.27 25306930.40 0.2642 0.1158 *

Jupiter 64576-01-27 07:12 G 25306985.73 25306985.80 25306985.87 0.0542 0.0446

Mars 64578-07-20 20:39 G 25307891.30 25307891.36 25307891.42 0.1908 0.1701

Jupiter 64581-12-10 12:00 G 25309129.84 25309130.00 25309130.16 0.0485 0.0172

Mars 64583-04-13 20:10 G 25309619.23 25309619.34 25309619.45 0.1615 0.0895

Earth 64586-06-05 08:24 G 25310767.75 25310767.85 25310767.94 0.2686 0.1391

Moon 64586-06-05 08:53 G 25310767.77 25310767.87 25310767.97 0.2680 0.1393 *

Venus 64586-06-05 11:31 G 25310767.89 25310767.98 25310768.08 0.3684 0.1513 *

Saturn 64587-06-22 09:51 G 25311149.86 25311149.91 25311149.97 0.0282 0.0261

Jupiter 64587-08-17 21:51 G 25311206.39 25311206.41 25311206.44 0.0544 0.0535

Saturn 64587-09-19 04:05 G 25311238.52 25311238.67 25311238.83 0.0282 0.0089

Jupiter 64587-11-15 10:34 G 25311295.82 25311295.94 25311296.06 0.0543 0.0266

Saturn 64587-12-16 22:48 G 25311327.29 25311327.45 25311327.61 0.0281 0.0088

Saturn 64588-03-14 17:31 G 25311416.19 25311416.23 25311416.29 0.0281 0.0268

Earth 64588-12-04 19:27 G 25311681.17 25311681.31 25311681.45 0.2645 0.0434

Moon 64588-12-04 19:55 G 25311681.19 25311681.33 25311681.48 0.2639 0.0457 *

Uranus 64591-10-26 07:12 G 25312736.75 25312736.80 25312736.88 0.0142 0.0130

Venus 64591-12-20 04:05 G 25312791.58 25312791.67 25312791.77 0.3683 0.1326

Uranus 64592-01-22 14:10 G 25312824.97 25312825.09 25312825.21 0.0141 0.0102

Uranus 64592-04-19 20:39 G 25312913.22 25312913.36 25312913.52 0.0141 0.0074

Uranus 64592-07-17 03:22 G 25313001.48 25313001.64 25313001.82 0.0141 0.0046

Mars 64592-09-03 05:03 G 25313049.58 25313049.71 25313049.85 0.1615 0.0126

Uranus 64592-10-13 10:19 G 25313089.75 25313089.93 25313090.11 0.0141 0.0018

Uranus 64593-01-09 17:03 G 25313178.04 25313178.21 25313178.39 0.0141 0.0011

Uranus 64593-04-07 23:46 G 25313266.33 25313266.49 25313266.67 0.0141 0.0039

Earth 64593-05-29 03:22 G 25313317.57 25313317.64 25313317.71 0.2689 0.2088

Moon 64593-05-29 03:36 G 25313317.58 25313317.65 25313317.71 0.2696 0.2133 *

Venus 64593-07-04 16:48 G 25313354.09 25313354.20 25313354.31 0.3688 0.2117

Uranus 64593-07-05 06:58 G 25313354.63 25313354.79 25313354.94 0.0141 0.0067

Jupiter 64593-09-28 12:43 G 25313439.91 25313440.03 25313440.14 0.0485 0.0343

Uranus 64593-10-01 13:41 G 25313442.94 25313443.07 25313443.21 0.0141 0.0096

Jupiter 64593-12-27 09:51 G 25313529.80 25313529.91 25313530.02 0.0486 0.0370

Uranus 64593-12-28 20:24 G 25313531.28 25313531.35 25313531.45 0.0141 0.0125

Mars 64599-04-08 16:34 G 25315458.12 25315458.19 25315458.27 0.1908 0.1574

Moon 64599-06-08 03:22 G 25315518.61 25315518.64 25315518.67 0.2678 0.2569

Earth 64599-06-08 03:22 G 25315518.61 25315518.64 25315518.67 0.2685 0.2563 *

Jupiter 64599-09-03 13:27 G 25315605.93 25315606.06 25315606.20 0.0543 0.0081

Moon 64601-12-08 21:51 G 25316432.33 25316432.41 25316432.49 0.2640 0.2230

Earth 64601-12-08 22:05 G 25316432.35 25316432.42 25316432.49 0.2647 0.2302 *

Mars 64602-01-25 13:55 G 25316479.95 25316480.08 25316480.20 0.1615 0.0663

Saturn 64602-07-23 05:31 G 25316658.67 25316658.73 25316658.79 0.0277 0.0250

Saturn 64602-10-19 18:43 G 25316747.15 25316747.28 25316747.41 0.0277 0.0105

Saturn 64603-01-16 07:41 G 25316835.68 25316835.82 25316835.96 0.0278 0.0039

Saturn 64603-04-14 20:24 G 25316924.25 25316924.35 25316924.46 0.0278 0.0180

Jupiter 64605-10-16 09:51 G 25317839.76 25317839.91 25317840.07 0.0486 0.0191

Earth 64606-06-01 22:48 G 25318068.34 25318068.45 25318068.56 0.2688 0.0828

Moon 64606-06-01 23:31 G 25318068.37 25318068.48 25318068.59 0.2692 0.0689 *

Mars 64608-08-29 18:43 G 25318888.14 25318888.28 25318888.42 0.1908 0.0033

Moon 64608-11-30 22:34 G 25318981.41 25318981.44 25318981.48 0.2643 0.2552

Neptune 64610-11-05 15:51 G 25319686.11 25319686.16 25319686.23 0.0088 0.0082

Neptune 64611-02-01 18:29 G 25319774.19 25319774.27 25319774.38 0.0088 0.0073

Neptune 64611-04-30 21:22 G 25319862.28 25319862.39 25319862.52 0.0088 0.0063

Mars 64611-06-17 22:19 G 25319910.38 25319910.43 25319910.49 0.1615 0.1469

Jupiter 64611-06-23 16:05 G 25319916.04 25319916.17 25319916.30 0.0543 0.0119

Neptune 64611-07-28 00:00 G 25319950.38 25319950.50 25319950.65 0.0088 0.0054

Neptune 64611-10-24 02:53 G 25320038.48 25320038.62 25320038.79 0.0088 0.0044

Neptune 64612-01-20 06:00 G 25320126.59 25320126.75 25320126.91 0.0088 0.0034

Neptune 64612-04-17 08:39 G 25320214.70 25320214.86 25320215.04 0.0088 0.0025

Neptune 64612-07-14 11:31 G 25320302.81 25320302.98 25320303.16 0.0088 0.0015

Neptune 64612-10-10 14:39 G 25320390.93 25320391.11 25320391.28 0.0088 0.0005

Neptune 64613-01-06 17:31 G 25320479.05 25320479.23 25320479.40 0.0088 0.0005

Neptune 64613-04-04 20:10 G 25320567.17 25320567.34 25320567.52 0.0088 0.0015

Neptune 64613-07-01 23:03 G 25320655.30 25320655.46 25320655.64 0.0088 0.0025

Neptune 64613-09-28 01:55 G 25320743.42 25320743.58 25320743.75 0.0088 0.0035

Neptune 64613-12-25 04:48 G 25320831.56 25320831.70 25320831.87 0.0088 0.0045

Neptune 64614-03-23 07:41 G 25320919.69 25320919.82 25320919.98 0.0088 0.0055

Neptune 64614-06-19 10:34 G 25321007.84 25321007.94 25321008.08 0.0088 0.0065

Neptune 64614-09-15 13:27 G 25321095.99 25321096.06 25321096.18 0.0088 0.0076

Neptune 64614-12-12 16:34 G 25321184.16 25321184.19 25321184.25 0.0088 0.0085

Saturn 64617-02-06 03:36 G 25321970.51 25321970.65 25321970.80 0.0282 0.0144

Saturn 64617-05-05 22:19 G 25322059.26 25322059.43 25322059.60 0.0281 0.0032

Saturn 64617-08-02 17:03 G 25322148.10 25322148.21 25322148.33 0.0281 0.0211

Jupiter 64617-08-04 10:34 G 25322149.77 25322149.94 25322150.11 0.0486 0.0019

Mars 64618-01-19 20:53 G 25322318.29 25322318.37 25322318.46 0.1908 0.1528

Earth 64619-06-04 18:15 G 25322819.14 25322819.26 25322819.37 0.2687 0.0415

Moon 64619-06-04 18:58 G 25322819.18 25322819.29 25322819.40 0.2687 0.0425 *

Earth 64621-12-03 23:17 G 25323732.34 25323732.47 25323732.60 0.2644 0.1031

Moon 64621-12-04 00:29 G 25323732.38 25323732.52 25323732.65 0.2642 0.0989 *

Mars 64622-10-13 20:24 G 25324046.25 25324046.35 25324046.45 0.1615 0.1022

Jupiter 64623-04-11 17:31 G 25324226.12 25324226.23 25324226.33 0.0543 0.0341

Jupiter 64623-07-10 05:31 G 25324315.66 25324315.73 25324315.81 0.0542 0.0447

Jupiter 64629-05-23 11:03 G 25326459.80 25326459.96 25326460.12 0.0485 0.0156

Saturn 64631-12-10 08:39 G 25327390.86 25327390.86 25327390.88 0.0277 0.0276

Mars 64632-03-05 05:17 G 25327476.59 25327476.72 25327476.85 0.1615 0.0251

Saturn 64632-03-07 22:05 G 25327479.29 25327479.42 25327479.55 0.0277 0.0130

Saturn 64632-06-04 11:03 G 25327567.82 25327567.96 25327568.11 0.0277 0.0016

Earth 64632-06-06 13:12 G 25327569.96 25327570.05 25327570.15 0.2686 0.1615

Moon 64632-06-06 13:55 G 25327569.99 25327570.08 25327570.16 0.2680 0.1725 *

Saturn 64632-09-01 00:00 G 25327656.38 25327656.50 25327656.62 0.0278 0.0156

Earth 64634-12-07 01:27 G 25328483.43 25328483.56 25328483.70 0.2646 0.0779

Moon 64634-12-07 01:55 G 25328483.44 25328483.58 25328483.72 0.2639 0.0864 *

Uranus 64635-01-29 09:36 G 25328536.86 25328536.90 25328536.97 0.0136 0.0125

Uranus 64635-04-27 13:41 G 25328624.98 25328625.07 25328625.16 0.0136 0.0104

Jupiter 64635-04-28 08:24 G 25328625.73 25328625.85 25328625.97 0.0543 0.0256

Uranus 64635-07-24 17:17 G 25328713.11 25328713.22 25328713.34 0.0137 0.0084

Uranus 64635-10-20 21:07 G 25328801.26 25328801.38 25328801.50 0.0137 0.0063

Uranus 64636-01-17 00:43 G 25328889.40 25328889.53 25328889.67 0.0137 0.0043

Uranus 64636-04-14 04:34 G 25328977.55 25328977.69 25328977.83 0.0137 0.0023

Uranus 64636-07-11 08:10 G 25329065.70 25329065.84 25329065.98 0.0137 0.0002

Uranus 64636-10-07 11:46 G 25329153.85 25329153.99 25329154.13 0.0137 0.0018

Uranus 64637-01-03 15:22 G 25329242.01 25329242.14 25329242.28 0.0137 0.0038

Uranus 64637-04-01 18:58 G 25329330.17 25329330.29 25329330.42 0.0137 0.0058

Venus 64637-06-27 16:34 G 25329417.15 25329417.19 25329417.24 0.3684 0.3317

Uranus 64637-06-28 22:19 G 25329418.33 25329418.43 25329418.56 0.0137 0.0079

Uranus 64637-09-25 02:10 G 25329506.50 25329506.59 25329506.69 0.0137 0.0097

Uranus 64637-12-22 05:31 G 25329594.67 25329594.73 25329594.81 0.0137 0.0118

Uranus 64638-03-20 09:22 G 25329682.88 25329682.89 25329682.90 0.0137 0.0137

Mars 64638-10-08 16:48 G 25329885.15 25329885.20 25329885.26 0.1908 0.1747

Earth 64639-05-31 08:24 G 25330119.77 25330119.85 25330119.94 0.2689 0.1850

Moon 64639-05-31 08:39 G 25330119.78 25330119.86 25330119.95 0.2695 0.1815 *

Jupiter 64641-03-11 11:03 G 25330769.84 25330769.96 25330770.08 0.0485 0.0336

Jupiter 64641-06-09 08:10 G 25330859.73 25330859.84 25330859.95 0.0486 0.0377

Mars 64641-07-26 13:55 G 25330906.96 25330907.08 25330907.21 0.1615 0.0537

Venus 64643-01-11 09:22 G 25331440.78 25331440.89 25331441.00 0.3683 0.0438

Venus 64644-07-26 14:10 G 25332002.97 25332003.09 25332003.21 0.3687 0.1908

Saturn 64646-06-26 04:05 G 25332702.55 25332702.67 25332702.80 0.0282 0.0189

Saturn 64646-09-22 22:34 G 25332791.27 25332791.44 25332791.61 0.0282 0.0015

Saturn 64646-12-20 17:17 G 25332880.08 25332880.22 25332880.36 0.0281 0.0163

Jupiter 64647-02-14 11:31 G 25332935.85 25332935.98 25332936.12 0.0543 0.0072

Moon 64647-12-10 03:51 G 25333234.64 25333234.66 25333234.68 0.2641 0.2598

Mars 64648-02-28 18:43 G 25333315.14 25333315.28 25333315.42 0.1908 0.0159

Venus 64648-07-27 01:55 G 25333464.50 25333464.58 25333464.66 0.3683 0.2365

Mars 64650-12-16 22:34 G 25334337.37 25334337.44 25334337.52 0.1616 0.1333

Earth 64652-06-02 03:51 G 25334870.55 25334870.66 25334870.78 0.2688 0.0593

Moon 64652-06-02 04:34 G 25334870.58 25334870.69 25334870.81 0.2692 0.0570 *

Jupiter 64653-03-28 08:24 G 25335169.69 25335169.85 25335170.00 0.0486 0.0198

Earth 64654-12-02 03:07 G 25335783.58 25335783.63 25335783.69 0.2643 0.2448

Moon 64654-12-02 04:34 G 25335783.64 25335783.69 25335783.75 0.2643 0.2398 *

Mars 64657-07-20 21:22 G 25336745.29 25336745.39 25336745.48 0.1908 0.1353

Jupiter 64658-12-03 14:24 G 25337245.97 25337246.10 25337246.24 0.0543 0.0117

Saturn 64661-07-25 22:48 G 25338211.34 25338211.45 25338211.56 0.0277 0.0182

Saturn 64661-10-22 11:46 G 25338299.85 25338299.99 25338300.14 0.0277 0.0039

Saturn 64662-01-19 00:43 G 25338388.40 25338388.53 25338388.66 0.0278 0.0104

Mars 64662-04-13 20:39 G 25338473.27 25338473.36 25338473.45 0.1615 0.1151

Saturn 64662-04-17 13:27 G 25338477.00 25338477.06 25338477.13 0.0278 0.0245

Jupiter 64665-01-14 08:39 G 25339479.69 25339479.86 25339480.03 0.0486 0.0023

Earth 64665-06-04 23:17 G 25339621.35 25339621.47 25339621.58 0.2687 0.0643

Moon 64665-06-05 00:00 G 25339621.39 25339621.50 25339621.61 0.2684 0.0788 *

Earth 64667-12-05 05:17 G 25340534.58 25340534.72 25340534.85 0.2644 0.0709

Moon 64667-12-05 06:15 G 25340534.61 25340534.76 25340534.90 0.2641 0.0516 *

Jupiter 64670-09-21 16:48 G 25341556.09 25341556.20 25341556.31 0.0543 0.0318

Jupiter 64670-12-20 04:48 G 25341645.64 25341645.70 25341645.77 0.0542 0.0470

Mars 64671-09-04 05:31 G 25341903.60 25341903.73 25341903.86 0.1615 0.0382

Saturn 64675-11-13 03:36 G 25343434.58 25343434.65 25343434.74 0.0282 0.0245

Uranus 64675-11-16 14:10 G 25343438.01 25343438.09 25343438.19 0.0141 0.0123

Saturn 64676-02-09 22:05 G 25343523.26 25343523.42 25343523.58 0.0282 0.0071

Uranus 64676-02-12 20:39 G 25343526.25 25343526.36 25343526.50 0.0141 0.0096

Saturn 64676-05-08 16:48 G 25343612.04 25343612.20 25343612.35 0.0281 0.0106

Uranus 64676-05-11 03:36 G 25343614.50 25343614.65 25343614.81 0.0141 0.0067

Uranus 64676-08-07 10:19 G 25343702.76 25343702.93 25343703.10 0.0141 0.0039

Jupiter 64676-11-02 09:07 G 25343789.73 25343789.88 25343790.05 0.0485 0.0151

Uranus 64676-11-03 17:03 G 25343791.04 25343791.21 25343791.39 0.0141 0.0012

Uranus 64677-01-31 00:00 G 25343879.32 25343879.50 25343879.68 0.0141 0.0017

Uranus 64677-04-29 06:43 G 25343967.61 25343967.78 25343967.95 0.0141 0.0046

Uranus 64677-07-26 13:41 G 25344055.92 25344056.07 25344056.22 0.0141 0.0074

Uranus 64677-10-22 20:24 G 25344144.24 25344144.35 25344144.48 0.0141 0.0103

Uranus 64678-01-19 03:07 G 25344232.59 25344232.63 25344232.71 0.0141 0.0132

Earth 64678-06-07 18:15 G 25344372.18 25344372.26 25344372.34 0.2686 0.1835

Moon 64678-06-07 18:43 G 25344372.20 25344372.28 25344372.37 0.2680 0.1816 *

Earth 64680-12-07 07:27 G 25345285.68 25345285.81 25345285.94 0.2646 0.1115

Moon 64680-12-07 07:55 G 25345285.69 25345285.83 25345285.96 0.2639 0.1068 *

Mars 64681-01-24 14:10 G 25345333.96 25345334.09 25345334.22 0.1615 0.0404

Jupiter 64682-07-10 18:00 G 25345866.25 25345866.25 25345866.26 0.0543 0.0543

Jupiter 64682-10-08 06:43 G 25345955.66 25345955.78 25345955.90 0.0542 0.0258

Earth 64685-05-31 13:27 G 25346921.97 25346922.06 25346922.16 0.2689 0.1611

Moon 64685-05-31 13:55 G 25346921.99 25346922.08 25346922.18 0.2695 0.1553 *

Mars 64687-08-29 18:58 G 25347742.16 25347742.29 25347742.43 0.1908 0.0340

Jupiter 64688-08-21 09:51 G 25348099.79 25348099.91 25348100.03 0.0485 0.0322

Jupiter 64688-11-19 06:58 G 25348189.69 25348189.79 25348189.89 0.0486 0.0392

Mars 64690-06-16 22:48 G 25348764.36 25348764.45 25348764.54 0.1616 0.1200

Saturn 64690-12-13 01:55 G 25348943.49 25348943.58 25348943.68 0.0277 0.0208

Saturn 64691-03-11 15:07 G 25349031.99 25349032.13 25349032.27 0.0277 0.0063

Saturn 64691-06-08 04:05 G 25349120.54 25349120.67 25349120.81 0.0278 0.0081

Saturn 64691-09-04 16:48 G 25349209.12 25349209.20 25349209.29 0.0278 0.0221

Neptune 64691-12-02 00:58 G 25349297.50 25349297.54 25349297.61 0.0089 0.0082

Neptune 64692-02-28 02:53 G 25349385.55 25349385.62 25349385.71 0.0089 0.0074

Neptune 64692-05-26 04:34 G 25349473.60 25349473.69 25349473.79 0.0089 0.0065

Neptune 64692-08-22 06:00 G 25349561.66 25349561.75 25349561.87 0.0089 0.0058

Neptune 64692-11-18 07:55 G 25349649.71 25349649.83 25349649.95 0.0089 0.0049

Neptune 64693-02-14 09:36 G 25349737.78 25349737.90 25349738.03 0.0089 0.0040

Neptune 64693-05-13 11:03 G 25349825.84 25349825.96 25349826.10 0.0089 0.0033

Neptune 64693-08-09 12:58 G 25349913.90 25349914.04 25349914.18 0.0089 0.0024

Neptune 64693-11-05 14:39 G 25350001.97 25350002.11 25350002.25 0.0089 0.0016

Venus 64694-02-01 14:24 G 25350090.01 25350090.10 25350090.18 0.3684 0.2229

Neptune 64694-02-01 16:05 G 25350090.03 25350090.17 25350090.32 0.0089 0.0008 *

Neptune 64694-04-30 17:46 G 25350178.10 25350178.24 25350178.38 0.0089 0.0002

Jupiter 64694-07-27 09:22 G 25350265.76 25350265.89 25350266.03 0.0543 0.0061

Neptune 64694-07-27 19:27 G 25350266.17 25350266.31 25350266.45 0.0089 0.0009

Neptune 64694-10-23 20:53 G 25350354.24 25350354.37 25350354.52 0.0089 0.0018

Neptune 64695-01-19 22:34 G 25350442.31 25350442.44 25350442.58 0.0089 0.0025

Neptune 64695-04-18 00:00 G 25350530.38 25350530.50 25350530.64 0.0089 0.0034

Neptune 64695-07-15 01:41 G 25350618.45 25350618.57 25350618.70 0.0089 0.0041

Neptune 64695-10-11 03:07 G 25350706.53 25350706.63 25350706.76 0.0089 0.0050

Neptune 64696-01-07 04:48 G 25350794.60 25350794.70 25350794.81 0.0089 0.0057

Neptune 64696-04-04 06:15 G 25350882.68 25350882.76 25350882.87 0.0089 0.0065

Neptune 64696-07-01 07:41 G 25350970.76 25350970.82 25350970.91 0.0089 0.0074

Neptune 64696-09-27 09:22 G 25351058.84 25351058.89 25351058.96 0.0089 0.0081

Neptune 64696-12-24 10:48 G 25351146.95 25351146.95 25351146.98 0.0089 0.0089

Mars 64697-01-18 21:22 G 25351172.29 25351172.39 25351172.50 0.1908 0.1190

Earth 64698-06-03 08:53 G 25351672.76 25351672.87 25351672.99 0.2688 0.0363

Moon 64698-06-03 09:36 G 25351672.79 25351672.90 25351673.02 0.2691 0.0252 *

Venus 64699-08-18 06:58 G 25352113.69 25352113.79 25352113.90 0.3683 0.0632

Jupiter 64700-09-08 06:29 G 25352499.62 25352499.77 25352499.93 0.0486 0.0202

Earth 64700-12-03 09:07 G 25352585.80 25352585.88 25352585.96 0.2643 0.2134

Moon 64700-12-03 10:34 G 25352585.84 25352585.94 25352586.03 0.2643 0.1926 *

Venus 64701-03-03 14:39 G 25352675.96 25352676.11 25352676.24 0.3687 0.0233

Mars 64701-10-13 20:39 G 25352900.28 25352900.36 25352900.44 0.1615 0.1274

Venus 64705-03-03 23:31 G 25354137.44 25354137.48 25354137.52 0.3683 0.3398

Saturn 64705-04-02 05:03 G 25354166.71 25354166.71 25354166.72 0.0282 0.0282

Saturn 64705-06-29 23:17 G 25354255.32 25354255.47 25354255.62 0.0282 0.0110

Saturn 64705-09-26 17:46 G 25354344.08 25354344.24 25354344.40 0.0281 0.0066

Saturn 64705-12-24 12:29 G 25354432.94 25354433.02 25354433.11 0.0281 0.0244

Jupiter 64706-05-16 12:15 G 25354575.88 25354576.01 25354576.15 0.0543 0.0128

Mars 64711-03-06 05:46 G 25356330.61 25356330.74 25356330.86 0.1615 0.0511

Earth 64711-06-07 04:19 G 25356423.57 25356423.68 25356423.79 0.2687 0.0873

Moon 64711-06-07 05:03 G 25356423.60 25356423.71 25356423.82 0.2683 0.0891 *

Jupiter 64712-06-27 06:43 G 25356809.61 25356809.78 25356809.95 0.0485 0.0027

Earth 64713-12-06 11:03 G 25357336.82 25357336.96 25357337.10 0.2645 0.0379

Moon 64713-12-06 12:00 G 25357336.85 25357337.00 25357337.14 0.2639 0.0391 *

Jupiter 64718-03-04 15:07 G 25358886.02 25358886.13 25358886.24 0.0544 0.0319

Moon 64718-05-30 22:48 G 25358973.43 25358973.45 25358973.47 0.2696 0.2639

Earth 64718-05-30 23:03 G 25358973.44 25358973.46 25358973.47 0.2690 0.2655 *

Jupiter 64718-06-02 03:22 G 25358975.57 25358975.64 25358975.70 0.0542 0.0469

Uranus 64719-02-19 16:48 G 25359238.14 25359238.20 25359238.27 0.0136 0.0119

Uranus 64719-05-18 20:39 G 25359326.26 25359326.36 25359326.46 0.0136 0.0099

Uranus 64719-08-15 00:15 G 25359414.40 25359414.51 25359414.63 0.0137 0.0079

Uranus 64719-11-11 04:05 G 25359502.54 25359502.67 25359502.80 0.0137 0.0058

Uranus 64720-02-07 07:41 G 25359590.69 25359590.82 25359590.96 0.0137 0.0038

Saturn 64720-05-02 02:39 G 25359675.57 25359675.61 25359675.67 0.0277 0.0259

Uranus 64720-05-05 11:31 G 25359678.84 25359678.98 25359679.12 0.0137 0.0018

Mars 64720-07-26 14:24 G 25359760.97 25359761.10 25359761.24 0.1615 0.0270

Saturn 64720-07-29 16:05 G 25359764.04 25359764.17 25359764.30 0.0277 0.0113

Uranus 64720-08-01 15:07 G 25359766.99 25359767.13 25359767.27 0.0137 0.0003

Saturn 64720-10-26 05:17 G 25359852.57 25359852.72 25359852.86 0.0277 0.0032

Uranus 64720-10-28 18:43 G 25359855.14 25359855.28 25359855.42 0.0137 0.0023

Saturn 64721-01-22 18:00 G 25359941.14 25359941.25 25359941.36 0.0278 0.0172

Uranus 64721-01-24 22:19 G 25359943.30 25359943.43 25359943.56 0.0137 0.0043

Uranus 64721-04-23 01:55 G 25360031.46 25360031.58 25360031.71 0.0137 0.0063

Uranus 64721-07-20 05:31 G 25360119.62 25360119.73 25360119.84 0.0137 0.0082

Uranus 64721-10-16 08:53 G 25360207.79 25360207.87 25360207.97 0.0137 0.0103

Uranus 64722-01-12 12:29 G 25360295.97 25360296.02 25360296.09 0.0137 0.0122

Jupiter 64724-04-15 06:58 G 25361119.64 25361119.79 25361119.96 0.0485 0.0152

Earth 64724-06-08 23:17 G 25361174.40 25361174.47 25361174.54 0.2685 0.2058

Moon 64724-06-08 23:31 G 25361174.42 25361174.48 25361174.55 0.2680 0.2150 *

Pluto 64724-09-02 04:05 G 25361259.60 25361259.67 25361259.75 0.0065 0.0055

Pluto 64724-11-29 04:34 G 25361347.60 25361347.69 25361347.81 0.0065 0.0045

Pluto 64725-02-25 05:17 G 25361435.60 25361435.72 25361435.85 0.0065 0.0034

Pluto 64725-05-24 06:00 G 25361523.62 25361523.75 25361523.89 0.0065 0.0024

Pluto 64725-08-20 06:43 G 25361611.64 25361611.78 25361611.93 0.0066 0.0013

Pluto 64725-11-16 07:27 G 25361699.67 25361699.81 25361699.96 0.0066 0.0002

Pluto 64726-02-12 08:10 G 25361787.69 25361787.84 25361787.99 0.0066 0.0009

Pluto 64726-05-11 08:39 G 25361875.73 25361875.86 25361876.01 0.0066 0.0020

Pluto 64726-08-07 09:22 G 25361963.77 25361963.89 25361964.03 0.0066 0.0030

Pluto 64726-11-03 10:05 G 25362051.81 25362051.92 25362052.04 0.0066 0.0041

Moon 64726-12-09 13:41 G 25362087.95 25362088.07 25362088.19 0.2639 0.1548

Earth 64726-12-09 13:41 G 25362087.95 25362088.07 25362088.19 0.2646 0.1458 *

Pluto 64727-01-30 10:34 G 25362139.86 25362139.94 25362140.04 0.0066 0.0052

Mars 64727-02-28 19:27 G 25362169.18 25362169.31 25362169.45 0.1908 0.0525

Pluto 64727-04-28 11:17 G 25362227.94 25362227.97 25362228.02 0.0066 0.0063

Mars 64729-12-16 23:03 G 25363191.36 25363191.46 25363191.56 0.1615 0.1065

Jupiter 64729-12-21 17:31 G 25363196.19 25363196.23 25363196.26 0.0544 0.0522

Jupiter 64730-03-21 06:00 G 25363285.64 25363285.75 25363285.87 0.0542 0.0277

Earth 64731-06-02 18:29 G 25363724.17 25363724.27 25363724.37 0.2689 0.1376

Moon 64731-06-02 19:12 G 25363724.20 25363724.30 25363724.40 0.2695 0.1356 *

Saturn 64734-11-16 22:34 G 25364987.31 25364987.44 25364987.58 0.0282 0.0167

Saturn 64735-02-13 17:03 G 25365076.04 25365076.21 25365076.38 0.0281 0.0008

Saturn 64735-05-13 11:46 G 25365164.87 25365164.99 25365165.12 0.0281 0.0185

Jupiter 64736-02-02 07:55 G 25365429.70 25365429.83 25365429.95 0.0485 0.0319

Jupiter 64736-05-02 05:03 G 25365519.61 25365519.71 25365519.81 0.0486 0.0395

Mars 64736-07-20 21:36 G 25365599.28 25365599.40 25365599.52 0.1908 0.1029

Mars 64741-04-13 20:53 G 25367327.31 25367327.37 25367327.44 0.1615 0.1399

Jupiter 64742-01-07 07:41 G 25367595.69 25367595.82 25367595.96 0.0543 0.0062

Earth 64744-06-04 13:55 G 25368474.97 25368475.08 25368475.20 0.2688 0.0148

Moon 64744-06-04 14:53 G 25368475.00 25368475.12 25368475.23 0.2689 0.0099 *

Earth 64746-12-04 15:07 G 25369388.02 25369388.13 25369388.23 0.2643 0.1812

Moon 64746-12-04 16:19 G 25369388.07 25369388.18 25369388.29 0.2643 0.1738 *

Jupiter 64748-02-19 05:03 G 25369829.56 25369829.71 25369829.87 0.0486 0.0214

Saturn 64749-12-16 19:27 G 25370496.19 25370496.31 25370496.44 0.0278 0.0137

Saturn 64750-03-15 08:39 G 25370584.72 25370584.86 25370585.00 0.0278 0.0007

Saturn 64750-06-11 21:22 G 25370673.28 25370673.39 25370673.52 0.0278 0.0150

Mars 64750-09-04 05:46 G 25370757.62 25370757.74 25370757.87 0.1615 0.0637

Venus 64750-09-09 12:00 G 25370762.90 25370763.00 25370763.11 0.3684 0.1152

Jupiter 64753-10-26 10:05 G 25371905.79 25371905.92 25371906.05 0.0543 0.0139

Venus 64756-03-25 04:34 G 25372786.60 25372786.69 25372786.79 0.3683 0.1673

Earth 64757-06-07 09:07 G 25373225.78 25373225.88 25373225.99 0.2686 0.1100

Moon 64757-06-07 09:51 G 25373225.81 25373225.91 25373226.02 0.2683 0.1224 *

Venus 64757-10-08 14:53 G 25373349.01 25373349.12 25373349.22 0.3688 0.2298

Earth 64759-12-07 17:03 G 25374139.07 25374139.21 25374139.36 0.2645 0.0052

Moon 64759-12-07 17:46 G 25374139.10 25374139.24 25374139.39 0.2639 0.0111 *

Uranus 64759-12-07 20:53 G 25374139.29 25374139.37 25374139.48 0.0141 0.0116 *

Jupiter 64759-12-08 04:48 G 25374139.53 25374139.70 25374139.87 0.0485 0.0026

Mars 64760-01-25 14:39 G 25374187.98 25374188.11 25374188.24 0.1615 0.0140

Uranus 64760-03-05 03:36 G 25374227.52 25374227.65 25374227.80 0.0141 0.0089

Uranus 64760-06-01 10:34 G 25374315.78 25374315.94 25374316.10 0.0141 0.0061

Uranus 64760-08-28 17:03 G 25374404.04 25374404.21 25374404.39 0.0141 0.0033

Uranus 64760-11-25 00:00 G 25374492.32 25374492.50 25374492.68 0.0141 0.0005

Uranus 64761-02-21 06:43 G 25374580.60 25374580.78 25374580.96 0.0141 0.0024

Uranus 64761-05-20 13:27 G 25374668.90 25374669.06 25374669.23 0.0141 0.0052

Uranus 64761-08-16 20:10 G 25374757.21 25374757.34 25374757.50 0.0141 0.0081

Uranus 64761-11-13 03:22 G 25374845.53 25374845.64 25374845.75 0.0141 0.0109

Uranus 64762-02-09 10:05 G 25374933.90 25374933.92 25374933.96 0.0141 0.0138

Saturn 64764-04-05 00:29 G 25375719.41 25375719.52 25375719.64 0.0282 0.0199

Earth 64764-05-31 04:05 G 25375775.62 25375775.67 25375775.72 0.2690 0.2408

Moon 64764-05-31 04:05 G 25375775.63 25375775.67 25375775.71 0.2696 0.2481 *

Saturn 64764-07-02 18:43 G 25375808.12 25375808.28 25375808.45 0.0282 0.0026

Saturn 64764-09-29 13:12 G 25375896.92 25375897.05 25375897.20 0.0281 0.0152

Jupiter 64765-08-14 12:43 G 25376215.93 25376216.03 25376216.14 0.0544 0.0334

Jupiter 64765-11-12 00:58 G 25376305.47 25376305.54 25376305.61 0.0542 0.0457

Mars 64766-08-29 19:27 G 25376596.18 25376596.31 25376596.44 0.1908 0.0665

Mars 64769-06-16 23:17 G 25377618.36 25377618.47 25377618.58 0.1616 0.0932

Moon 64770-06-10 04:19 G 25377976.62 25377976.68 25377976.75 0.2679 0.2228

Earth 64770-06-10 04:19 G 25377976.62 25377976.68 25377976.74 0.2685 0.2280 *

Jupiter 64771-09-26 05:17 G 25378449.56 25378449.72 25378449.88 0.0485 0.0149

Moon 64772-12-09 19:27 G 25378890.20 25378890.31 25378890.42 0.2640 0.1689

Earth 64772-12-09 19:41 G 25378890.21 25378890.32 25378890.42 0.2646 0.1796 *

Neptune 64775-05-07 12:15 G 25379768.98 25379769.01 25379769.06 0.0088 0.0085

Neptune 64775-08-03 14:53 G 25379857.05 25379857.12 25379857.23 0.0088 0.0076

Neptune 64775-10-30 17:46 G 25379945.14 25379945.24 25379945.37 0.0088 0.0066

Mars 64776-01-19 22:05 G 25380026.30 25380026.42 25380026.54 0.1908 0.0841

Neptune 64776-01-26 20:53 G 25380033.23 25380033.37 25380033.50 0.0088 0.0056

Neptune 64776-04-23 23:17 G 25380121.34 25380121.47 25380121.63 0.0088 0.0047

Neptune 64776-07-21 02:24 G 25380209.44 25380209.60 25380209.76 0.0088 0.0037

Neptune 64776-10-17 05:03 G 25380297.55 25380297.71 25380297.89 0.0088 0.0028

Neptune 64777-01-13 07:55 G 25380385.66 25380385.83 25380386.01 0.0088 0.0018

Neptune 64777-04-11 11:03 G 25380473.78 25380473.96 25380474.13 0.0088 0.0008

Jupiter 64777-06-02 15:22 G 25380526.12 25380526.14 25380526.17 0.0544 0.0529

Earth 64777-06-02 23:31 G 25380526.38 25380526.48 25380526.59 0.2689 0.1140

Moon 64777-06-03 00:15 G 25380526.40 25380526.51 25380526.61 0.2694 0.1037 *

Neptune 64777-07-08 13:41 G 25380561.90 25380562.07 25380562.25 0.0088 0.0003

Jupiter 64777-08-31 04:05 G 25380615.56 25380615.67 25380615.79 0.0543 0.0274

Neptune 64777-10-04 16:34 G 25380650.02 25380650.19 25380650.37 0.0088 0.0012

Neptune 64777-12-31 19:27 G 25380738.14 25380738.31 25380738.49 0.0088 0.0022

Neptune 64778-03-29 22:19 G 25380826.27 25380826.43 25380826.60 0.0088 0.0031

Neptune 64778-06-26 01:12 G 25380914.40 25380914.55 25380914.72 0.0088 0.0041

Neptune 64778-09-22 04:05 G 25381002.53 25381002.67 25381002.82 0.0088 0.0051

Neptune 64778-12-19 06:58 G 25381090.67 25381090.79 25381090.93 0.0088 0.0061

Neptune 64779-03-17 09:51 G 25381178.82 25381178.91 25381179.03 0.0088 0.0072

Saturn 64779-05-05 20:24 G 25381228.25 25381228.35 25381228.46 0.0277 0.0186

Neptune 64779-06-13 12:58 G 25381266.98 25381267.04 25381267.11 0.0088 0.0081

Saturn 64779-08-02 09:51 G 25381316.76 25381316.91 25381317.05 0.0277 0.0042

Saturn 64779-10-29 22:34 G 25381405.31 25381405.44 25381405.58 0.0278 0.0102

Saturn 64780-01-26 11:17 G 25381493.91 25381493.97 25381494.05 0.0278 0.0242

Mars 64780-10-12 21:07 G 25381754.34 25381754.38 25381754.42 0.1615 0.1526

Jupiter 64783-07-15 05:31 G 25382759.61 25382759.73 25382759.86 0.0485 0.0323

Jupiter 64783-10-13 02:39 G 25382849.51 25382849.61 25382849.71 0.0486 0.0390

Jupiter 64789-06-19 06:43 G 25384925.65 25384925.78 25384925.92 0.0543 0.0081

Mars 64790-03-05 06:00 G 25385184.64 25385184.75 25385184.87 0.1615 0.0769

Earth 64790-06-05 18:58 G 25385277.18 25385277.29 25385277.41 0.2687 0.0119

Moon 64790-06-05 19:55 G 25385277.21 25385277.33 25385277.44 0.2687 0.0195 *

Earth 64792-12-04 20:53 G 25386190.25 25386190.37 25386190.49 0.2644 0.1497

Moon 64792-12-04 22:05 G 25386190.30 25386190.42 25386190.54 0.2641 0.1364 *

Saturn 64793-08-22 23:46 G 25386451.43 25386451.49 25386451.56 0.0282 0.0256

Saturn 64793-11-19 18:00 G 25386540.10 25386540.25 25386540.41 0.0281 0.0084

Saturn 64794-02-16 12:43 G 25386628.87 25386629.03 25386629.19 0.0281 0.0092

Saturn 64794-05-16 07:27 G 25386717.77 25386717.81 25386717.86 0.0281 0.0271

Jupiter 64795-08-01 03:07 G 25387159.48 25387159.63 25387159.78 0.0486 0.0215

Mars 64799-07-26 14:53 G 25388614.98 25388615.12 25388615.25 0.1615 0.0035

Jupiter 64801-04-07 08:24 G 25389235.72 25389235.85 25389235.98 0.0543 0.0139

Venus 64801-09-30 17:03 G 25389412.15 25389412.21 25389412.27 0.3685 0.2964

Uranus 64802-12-13 19:41 G 25389851.32 25389851.32 25389851.35 0.0136 0.0136

Uranus 64803-03-11 23:46 G 25389939.42 25389939.49 25389939.57 0.0136 0.0115

Uranus 64803-06-08 03:22 G 25390027.55 25390027.64 25390027.75 0.0137 0.0095

Earth 64803-06-08 14:10 G 25390027.99 25390028.09 25390028.19 0.2686 0.1323

Moon 64803-06-08 14:53 G 25390028.02 25390028.12 25390028.22 0.2683 0.1357 *

Uranus 64803-09-04 07:12 G 25390115.69 25390115.80 25390115.92 0.0137 0.0074

Uranus 64803-12-01 10:48 G 25390203.83 25390203.95 25390204.09 0.0137 0.0054

Uranus 64804-02-27 14:39 G 25390291.98 25390292.11 25390292.25 0.0137 0.0033

Uranus 64804-05-25 18:15 G 25390380.13 25390380.26 25390380.40 0.0137 0.0014

Uranus 64804-08-21 22:05 G 25390468.28 25390468.42 25390468.56 0.0137 0.0007

Uranus 64804-11-18 01:41 G 25390556.43 25390556.57 25390556.71 0.0137 0.0027

Uranus 64805-02-14 05:17 G 25390644.59 25390644.72 25390644.85 0.0137 0.0047

Uranus 64805-05-13 08:39 G 25390732.75 25390732.86 25390732.99 0.0137 0.0068

Uranus 64805-08-09 12:15 G 25390820.91 25390821.01 25390821.13 0.0137 0.0087

Uranus 64805-11-05 16:05 G 25390909.08 25390909.17 25390909.25 0.0137 0.0107

Earth 64805-12-07 23:03 G 25390941.32 25390941.46 25390941.61 0.2645 0.0290

Moon 64805-12-07 23:46 G 25390941.35 25390941.49 25390941.64 0.2639 0.0287 *

Uranus 64806-02-01 19:27 G 25390997.26 25390997.31 25390997.37 0.0137 0.0126

Mars 64806-02-27 19:55 G 25391023.20 25391023.33 25391023.45 0.1908 0.0855

Venus 64807-04-16 09:36 G 25391435.80 25391435.90 25391436.01 0.3684 0.0178

Jupiter 64807-05-20 03:22 G 25391469.47 25391469.64 25391469.81 0.0486 0.0036

Saturn 64808-09-21 23:31 G 25391960.40 25391960.48 25391960.58 0.0278 0.0213

Venus 64808-10-29 12:15 G 25391997.89 25391998.01 25391998.14 0.3687 0.1681

Mars 64808-12-15 23:31 G 25392045.36 25392045.48 25392045.60 0.1616 0.0800

Saturn 64808-12-19 12:58 G 25392048.90 25392049.04 25392049.18 0.0278 0.0067

Saturn 64809-03-18 01:55 G 25392137.45 25392137.58 25392137.72 0.0278 0.0077

Saturn 64809-06-14 14:39 G 25392226.03 25392226.11 25392226.21 0.0278 0.0219

Earth 64810-06-01 09:07 G 25392577.81 25392577.88 25392577.95 0.2690 0.2171

Moon 64810-06-01 09:22 G 25392577.82 25392577.89 25392577.96 0.2696 0.2091 *

Pluto 64812-09-02 04:34 G 25393401.65 25393401.69 25393401.76 0.0078 0.0074

Venus 64812-10-30 02:24 G 25393459.52 25393459.60 25393459.67 0.3683 0.2722

Pluto 64812-11-29 06:29 G 25393489.66 25393489.77 25393489.91 0.0078 0.0053

Jupiter 64813-01-24 10:34 G 25393545.84 25393545.94 25393546.05 0.0543 0.0345

Pluto 64813-02-25 08:39 G 25393577.71 25393577.86 25393578.02 0.0078 0.0031

Jupiter 64813-04-23 22:48 G 25393635.38 25393635.45 25393635.53 0.0542 0.0445

Pluto 64813-05-24 10:48 G 25393665.78 25393665.95 25393666.12 0.0078 0.0010

Pluto 64813-08-20 12:29 G 25393753.86 25393754.02 25393754.20 0.0078 0.0011

Pluto 64813-11-16 14:24 G 25393841.95 25393842.10 25393842.26 0.0078 0.0032

Pluto 64814-02-12 16:05 G 25393930.06 25393930.17 25393930.31 0.0078 0.0053

Pluto 64814-05-11 18:00 G 25394018.21 25394018.25 25394018.32 0.0077 0.0074

Mars 64815-07-20 22:05 G 25394453.29 25394453.42 25394453.55 0.1908 0.0693

Moon 64816-06-10 09:07 G 25394778.85 25394778.88 25394778.92 0.2678 0.2542

Earth 64816-06-10 09:07 G 25394778.85 25394778.88 25394778.92 0.2685 0.2502 *

Mars 64818-05-08 07:55 G 25395475.82 25395475.83 25395475.84 0.1616 0.1605

Moon 64818-12-11 01:12 G 25395692.47 25395692.55 25395692.63 0.2640 0.2172

Earth 64818-12-11 01:41 G 25395692.49 25395692.57 25395692.66 0.2646 0.2141 *

Jupiter 64819-03-08 03:07 G 25395779.47 25395779.63 25395779.79 0.0485 0.0149

Saturn 64823-04-08 20:24 G 25397272.20 25397272.35 25397272.50 0.0282 0.0112

Earth 64823-06-04 04:48 G 25397328.59 25397328.70 25397328.81 0.2689 0.0902

Moon 64823-06-04 05:17 G 25397328.61 25397328.72 25397328.83 0.2693 0.0892 *

Saturn 64823-07-06 14:53 G 25397360.96 25397361.12 25397361.28 0.0281 0.0063

Saturn 64823-10-03 09:36 G 25397449.82 25397449.90 25397449.99 0.0281 0.0241

Jupiter 64825-02-10 01:55 G 25397945.46 25397945.58 25397945.69 0.0543 0.0259

Mars 64829-09-03 06:15 G 25399611.65 25399611.76 25399611.87 0.1615 0.0892

Jupiter 64830-12-25 03:36 G 25400089.53 25400089.65 25400089.78 0.0485 0.0322

Jupiter 64831-03-25 00:29 G 25400179.43 25400179.52 25400179.63 0.0486 0.0391

Earth 64836-06-06 00:00 G 25402079.39 25402079.50 25402079.62 0.2687 0.0344

Moon 64836-06-06 00:58 G 25402079.42 25402079.54 25402079.65 0.2686 0.0475 *

Jupiter 64836-11-29 04:48 G 25402255.57 25402255.70 25402255.84 0.0543 0.0073

Saturn 64838-02-09 00:58 G 25402692.49 25402692.54 25402692.59 0.0277 0.0258

Saturn 64838-05-08 14:24 G 25402780.97 25402781.10 25402781.23 0.0277 0.0112

Saturn 64838-08-05 03:22 G 25402869.50 25402869.64 25402869.79 0.0277 0.0032

Saturn 64838-11-01 16:19 G 25402958.07 25402958.18 25402958.29 0.0278 0.0173

Earth 64838-12-06 02:53 G 25402992.49 25402992.62 25402992.75 0.2644 0.1171

Moon 64838-12-06 03:51 G 25402992.53 25402992.66 25402992.80 0.2640 0.1044 *

Mars 64839-01-24 15:07 G 25403041.99 25403042.13 25403042.26 0.1615 0.0124

Jupiter 64843-01-11 00:43 G 25404489.37 25404489.53 25404489.68 0.0486 0.0209

Uranus 64843-09-30 21:07 G 25404752.35 25404752.38 25404752.43 0.0142 0.0138

Uranus 64843-12-28 03:51 G 25404840.56 25404840.66 25404840.78 0.0141 0.0110

Uranus 64844-03-25 10:19 G 25404928.80 25404928.93 25404929.09 0.0141 0.0083

Uranus 64844-06-21 17:17 G 25405017.06 25405017.22 25405017.38 0.0141 0.0054

Uranus 64844-09-18 00:00 G 25405105.33 25405105.50 25405105.67 0.0141 0.0026

Uranus 64844-12-15 06:43 G 25405193.60 25405193.78 25405193.96 0.0141 0.0002

Uranus 64845-03-13 13:27 G 25405281.89 25405282.06 25405282.24 0.0141 0.0030

Uranus 64845-06-09 20:24 G 25405370.18 25405370.35 25405370.51 0.0141 0.0058

Mars 64845-08-28 20:10 G 25405450.22 25405450.34 25405450.46 0.1908 0.1028

Uranus 64845-09-06 02:53 G 25405458.49 25405458.62 25405458.77 0.0141 0.0087

Uranus 64845-12-03 10:05 G 25405546.82 25405546.92 25405547.02 0.0141 0.0115

Mars 64848-06-15 23:46 G 25406472.37 25406472.49 25406472.61 0.1616 0.0668

Jupiter 64848-09-17 07:27 G 25406565.68 25406565.81 25406565.94 0.0543 0.0124

Earth 64849-06-08 19:12 G 25406830.21 25406830.30 25406830.39 0.2686 0.1544

Moon 64849-06-08 19:41 G 25406830.23 25406830.32 25406830.41 0.2681 0.1604 *

Earth 64851-12-09 05:03 G 25407743.57 25407743.71 25407743.85 0.2645 0.0616

Moon 64851-12-09 05:31 G 25407743.59 25407743.73 25407743.87 0.2639 0.0715 *

Saturn 64852-08-25 19:27 G 25408004.19 25408004.31 25408004.45 0.0282 0.0171

Saturn 64852-11-22 13:55 G 25408092.91 25408093.08 25408093.25 0.0281 0.0003

Saturn 64853-02-19 08:39 G 25408181.73 25408181.86 25408181.99 0.0281 0.0180

Jupiter 64854-10-30 01:12 G 25408799.38 25408799.55 25408799.72 0.0486 0.0035

Mars 64855-01-18 22:19 G 25408880.30 25408880.43 25408880.56 0.1908 0.0518

Earth 64856-06-01 14:10 G 25409380.01 25409380.09 25409380.17 0.2690 0.1928

Moon 64856-06-01 14:24 G 25409380.02 25409380.10 25409380.18 0.2697 0.1978 *

Neptune 64856-06-01 23:03 G 25409380.44 25409380.46 25409380.52 0.0089 0.0086

Neptune 64856-08-29 00:58 G 25409468.48 25409468.54 25409468.62 0.0089 0.0077

Neptune 64856-11-25 02:39 G 25409556.53 25409556.61 25409556.71 0.0089 0.0068

Neptune 64857-02-21 04:05 G 25409644.58 25409644.67 25409644.79 0.0089 0.0061

Neptune 64857-05-20 06:00 G 25409732.64 25409732.75 25409732.87 0.0089 0.0052

Neptune 64857-08-16 07:41 G 25409820.70 25409820.82 25409820.95 0.0089 0.0043

Mars 64857-11-06 08:10 G 25409902.79 25409902.84 25409902.89 0.1616 0.1470

Neptune 64857-11-12 09:22 G 25409908.76 25409908.89 25409909.02 0.0089 0.0035

Neptune 64858-02-08 10:48 G 25409996.83 25409996.95 25409997.10 0.0089 0.0028

Neptune 64858-05-07 12:43 G 25410084.89 25410085.03 25410085.17 0.0089 0.0019

Venus 64858-05-07 14:39 G 25410085.02 25410085.11 25410085.21 0.3684 0.1883 *

Neptune 64858-08-03 14:24 G 25410172.96 25410173.10 25410173.24 0.0089 0.0010

Neptune 64858-10-30 16:05 G 25410261.02 25410261.17 25410261.31 0.0089 0.0003

Neptune 64859-01-26 17:31 G 25410349.09 25410349.23 25410349.37 0.0089 0.0006

Neptune 64859-04-24 19:12 G 25410437.16 25410437.30 25410437.44 0.0089 0.0014

Neptune 64859-07-21 20:39 G 25410525.23 25410525.36 25410525.50 0.0089 0.0022

Neptune 64859-10-17 22:19 G 25410613.30 25410613.43 25410613.57 0.0089 0.0030

Neptune 64860-01-13 23:46 G 25410701.37 25410701.49 25410701.63 0.0089 0.0039

Neptune 64860-04-11 01:27 G 25410789.45 25410789.56 25410789.68 0.0089 0.0046

Jupiter 64860-07-06 08:53 G 25410875.77 25410875.87 25410875.98 0.0543 0.0343

Neptune 64860-07-08 02:53 G 25410877.52 25410877.62 25410877.74 0.0089 0.0055

Jupiter 64860-10-03 21:07 G 25410965.31 25410965.38 25410965.46 0.0542 0.0447

Neptune 64860-10-04 04:34 G 25410965.60 25410965.69 25410965.79 0.0089 0.0062

Neptune 64860-12-31 06:00 G 25411053.68 25411053.75 25411053.85 0.0089 0.0070

Neptune 64861-03-29 07:27 G 25411141.76 25411141.81 25411141.89 0.0089 0.0079

Neptune 64861-06-25 09:07 G 25411229.86 25411229.88 25411229.92 0.0089 0.0086

Moon 64862-06-11 14:10 G 25411581.08 25411581.09 25411581.10 0.2678 0.2666

Venus 64863-11-21 07:27 G 25412108.71 25412108.81 25412108.91 0.3683 0.0979

Moon 64864-12-11 07:12 G 25412494.73 25412494.80 25412494.86 0.2640 0.2334

Earth 64864-12-11 07:41 G 25412494.78 25412494.82 25412494.87 0.2646 0.2486 *

Venus 64865-06-05 12:43 G 25412670.89 25412671.03 25412671.16 0.3687 0.0426

Jupiter 64866-08-18 01:27 G 25413109.40 25413109.56 25413109.72 0.0485 0.0142

Saturn 64867-09-25 17:17 G 25413513.10 25413513.22 25413513.35 0.0278 0.0140

Saturn 64867-12-23 06:29 G 25413601.63 25413601.77 25413601.91 0.0278 0.0005

Saturn 64868-03-20 19:27 G 25413690.19 25413690.31 25413690.43 0.0278 0.0147

Mars 64869-03-04 06:29 G 25414038.66 25414038.77 25414038.87 0.1615 0.1019

Earth 64869-06-04 09:51 G 25414130.79 25414130.91 25414131.02 0.2688 0.0673

Moon 64869-06-04 10:19 G 25414130.82 25414130.93 25414131.05 0.2691 0.0530 *

Earth 64871-12-04 06:58 G 25415043.76 25415043.79 25415043.82 0.2643 0.2573

Moon 64871-12-04 08:10 G 25415043.79 25415043.84 25415043.90 0.2643 0.2379 *

Jupiter 64872-07-22 23:46 G 25415275.37 25415275.49 25415275.61 0.0542 0.0249

Jupiter 64878-06-06 01:27 G 25417419.44 25417419.56 25417419.68 0.0485 0.0323

Mars 64878-07-25 15:07 G 25417469.00 25417469.13 25417469.27 0.1615 0.0253

Jupiter 64878-09-03 22:19 G 25417509.33 25417509.43 25417509.53 0.0486 0.0388

Saturn 64882-01-12 22:05 G 25418736.31 25418736.42 25418736.55 0.0282 0.0196

Saturn 64882-04-11 16:34 G 25418825.02 25418825.19 25418825.36 0.0281 0.0022

Earth 64882-06-07 05:03 G 25418881.60 25418881.71 25418881.83 0.2687 0.0572

Moon 64882-06-07 06:00 G 25418881.63 25418881.75 25418881.86 0.2686 0.0614 *

Saturn 64882-07-09 11:03 G 25418913.83 25418913.96 25418914.11 0.0281 0.0154

Jupiter 64884-05-11 02:24 G 25419585.47 25419585.60 25419585.74 0.0543 0.0057

Earth 64884-12-06 08:53 G 25419794.73 25419794.87 25419795.00 0.2644 0.0853

Moon 64884-12-06 09:51 G 25419794.77 25419794.91 25419795.05 0.2639 0.0783 *

Mars 64885-02-26 20:10 G 25419877.23 25419877.34 25419877.45 0.1908 0.1182

Uranus 64887-01-03 02:39 G 25420552.58 25420552.61 25420552.66 0.0136 0.0131

Uranus 64887-04-01 06:43 G 25420640.70 25420640.78 25420640.86 0.0137 0.0110

Uranus 64887-06-28 10:19 G 25420728.83 25420728.93 25420729.04 0.0137 0.0090

Uranus 64887-09-24 14:10 G 25420816.97 25420817.09 25420817.21 0.0137 0.0069

Mars 64887-12-16 00:00 G 25420899.37 25420899.50 25420899.63 0.1616 0.0534

Uranus 64887-12-21 18:00 G 25420905.12 25420905.25 25420905.38 0.0137 0.0049

Uranus 64888-03-18 21:36 G 25420993.26 25420993.40 25420993.54 0.0137 0.0029

Uranus 64888-06-15 01:12 G 25421081.41 25421081.55 25421081.69 0.0137 0.0009

Uranus 64888-09-11 05:03 G 25421169.57 25421169.71 25421169.85 0.0137 0.0012

Uranus 64888-12-08 08:39 G 25421257.72 25421257.86 25421257.99 0.0137 0.0032

Uranus 64889-03-06 12:00 G 25421345.88 25421346.00 25421346.14 0.0137 0.0052

Uranus 64889-06-02 15:51 G 25421434.04 25421434.16 25421434.28 0.0137 0.0072

Uranus 64889-08-29 19:12 G 25421522.21 25421522.30 25421522.41 0.0137 0.0092

Uranus 64889-11-25 22:48 G 25421610.38 25421610.45 25421610.54 0.0137 0.0111

Uranus 64890-02-22 02:24 G 25421698.57 25421698.60 25421698.64 0.0137 0.0131

Jupiter 64890-06-22 22:34 G 25421819.29 25421819.44 25421819.59 0.0485 0.0209

Mars 64894-07-19 22:48 G 25423307.31 25423307.45 25423307.58 0.1908 0.0344

Earth 64895-06-10 00:15 G 25423632.42 25423632.51 25423632.59 0.2686 0.1770

Moon 64895-06-10 00:29 G 25423632.44 25423632.52 25423632.61 0.2680 0.1829 *

Jupiter 64896-02-28 05:17 G 25423895.59 25423895.72 25423895.85 0.0543 0.0133

Saturn 64897-02-11 18:43 G 25424245.18 25424245.28 25424245.39 0.0277 0.0184

Mars 64897-05-07 08:24 G 25424329.78 25424329.85 25424329.93 0.1616 0.1332

Saturn 64897-05-11 08:10 G 25424333.69 25424333.84 25424333.98 0.0277 0.0040

Saturn 64897-08-07 21:07 G 25424422.25 25424422.38 25424422.51 0.0278 0.0103

Saturn 64897-11-04 09:51 G 25424510.85 25424510.91 25424510.98 0.0278 0.0243

Moon 64897-12-09 11:17 G 25424545.83 25424545.97 25424546.11 0.2639 0.0964

Earth 64897-12-09 11:03 G 25424545.83 25424545.96 25424546.10 0.2645 0.0957 *

Jupiter 64902-04-11 22:48 G 25426129.28 25426129.45 25426129.62 0.0485 0.0031

Earth 64902-06-03 19:12 G 25426182.21 25426182.30 25426182.39 0.2689 0.1692

Moon 64902-06-03 19:27 G 25426182.22 25426182.31 25426182.41 0.2696 0.1606 *

Mars 64903-12-11 01:12 G 25426737.52 25426737.55 25426737.59 0.1907 0.1838

Jupiter 64907-12-18 07:55 G 25428205.72 25428205.83 25428205.94 0.0543 0.0331

Jupiter 64908-03-16 20:10 G 25428295.27 25428295.34 25428295.41 0.0542 0.0460

Mars 64908-09-03 06:43 G 25428465.68 25428465.78 25428465.87 0.1615 0.1147

Saturn 64911-06-02 21:07 G 25429468.32 25429468.38 25429468.46 0.0282 0.0256

Saturn 64911-08-30 15:22 G 25429556.99 25429557.14 25429557.30 0.0282 0.0084

Saturn 64911-11-27 09:51 G 25429645.76 25429645.91 25429646.07 0.0281 0.0092

Saturn 64912-02-24 04:48 G 25429734.66 25429734.70 25429734.75 0.0281 0.0269

Jupiter 64914-01-28 23:17 G 25430439.31 25430439.47 25430439.63 0.0485 0.0143

Venus 64914-12-13 12:29 G 25430757.91 25430758.02 25430758.12 0.3684 0.0796

Earth 64915-06-06 14:53 G 25430933.00 25430933.12 25430933.23 0.2688 0.0435

Moon 64915-06-06 15:36 G 25430933.04 25430933.15 25430933.27 0.2690 0.0413 *

Venus 64916-06-27 10:19 G 25431319.89 25431319.93 25431319.98 0.3686 0.3456

Earth 64917-12-05 12:58 G 25431845.97 25431846.04 25431846.11 0.2643 0.2251

Moon 64917-12-05 14:10 G 25431846.02 25431846.09 25431846.17 0.2642 0.2219 *

Mars 64918-01-24 15:22 G 25431896.01 25431896.14 25431896.27 0.1615 0.0380

Jupiter 64920-01-03 22:19 G 25432605.31 25432605.43 25432605.54 0.0542 0.0253

Venus 64920-06-28 05:03 G 25432781.62 25432781.71 25432781.80 0.3683 0.2041

Venus 64922-01-11 12:58 G 25433343.94 25433344.04 25433344.14 0.3687 0.2525

Mars 64924-08-28 20:39 G 25434304.26 25434304.36 25434304.45 0.1908 0.1362

Jupiter 64925-11-16 23:46 G 25434749.37 25434749.49 25434749.62 0.0485 0.0317

Jupiter 64926-02-14 20:53 G 25434839.27 25434839.37 25434839.46 0.0486 0.0396

Saturn 64926-07-02 21:22 G 25434977.31 25434977.39 25434977.49 0.0278 0.0216

Saturn 64926-09-29 10:48 G 25435065.81 25435065.95 25435066.09 0.0278 0.0070

Saturn 64926-12-26 23:46 G 25435154.36 25435154.49 25435154.63 0.0278 0.0075

Saturn 64927-03-25 12:43 G 25435242.94 25435243.03 25435243.12 0.0278 0.0215

Mars 64927-06-17 00:15 G 25435326.38 25435326.51 25435326.64 0.1616 0.0406

Uranus 64927-10-22 04:05 G 25435453.62 25435453.67 25435453.75 0.0142 0.0131

Uranus 64928-01-18 11:03 G 25435541.84 25435541.96 25435542.08 0.0141 0.0103

Uranus 64928-04-15 17:31 G 25435630.08 25435630.23 25435630.38 0.0141 0.0075

Earth 64928-06-08 10:05 G 25435683.81 25435683.92 25435684.03 0.2687 0.0796

Moon 64928-06-08 10:48 G 25435683.84 25435683.95 25435684.06 0.2685 0.0939 *

Uranus 64928-07-13 00:15 G 25435718.34 25435718.51 25435718.68 0.0141 0.0047

Uranus 64928-10-09 06:58 G 25435806.61 25435806.79 25435806.96 0.0141 0.0020

Uranus 64929-01-05 13:41 G 25435894.89 25435895.07 25435895.25 0.0141 0.0009

Uranus 64929-04-03 20:10 G 25435983.18 25435983.34 25435983.52 0.0141 0.0037

Uranus 64929-07-01 03:07 G 25436071.48 25436071.63 25436071.79 0.0141 0.0065

Uranus 64929-09-27 10:05 G 25436159.79 25436159.92 25436160.05 0.0141 0.0093

Uranus 64929-12-24 16:48 G 25436248.12 25436248.20 25436248.30 0.0141 0.0122

Earth 64930-12-08 14:53 G 25436596.98 25436597.12 25436597.26 0.2644 0.0519

Moon 64930-12-08 15:51 G 25436597.02 25436597.16 25436597.30 0.2640 0.0357 *

Jupiter 64931-10-23 00:29 G 25436915.39 25436915.52 25436915.66 0.0543 0.0052

Mars 64934-01-18 22:48 G 25437734.31 25437734.45 25437734.59 0.1908 0.0183

Mars 64936-11-06 08:39 G 25438756.77 25438756.86 25438756.95 0.1616 0.1202

Jupiter 64937-12-03 20:24 G 25439149.20 25439149.35 25439149.50 0.0485 0.0207

Neptune 64940-02-02 11:17 G 25439939.91 25439939.97 25439940.06 0.0088 0.0079

Neptune 64940-04-30 14:10 G 25440028.00 25440028.09 25440028.21 0.0088 0.0069

Neptune 64940-07-27 16:48 G 25440116.09 25440116.20 25440116.35 0.0088 0.0060

Saturn 64940-10-20 00:15 G 25440200.49 25440200.51 25440200.53 0.0282 0.0279

Neptune 64940-10-23 19:41 G 25440204.19 25440204.32 25440204.48 0.0088 0.0050

Saturn 64941-01-16 18:15 G 25440289.11 25440289.26 25440289.41 0.0282 0.0108

Neptune 64941-01-19 22:48 G 25440292.29 25440292.45 25440292.61 0.0088 0.0040

Saturn 64941-04-15 12:43 G 25440377.86 25440378.03 25440378.19 0.0281 0.0066

Neptune 64941-04-18 01:27 G 25440380.40 25440380.56 25440380.73 0.0088 0.0031

Earth 64941-06-11 05:17 G 25440434.64 25440434.72 25440434.79 0.2686 0.1993

Moon 64941-06-11 05:31 G 25440434.65 25440434.73 25440434.81 0.2679 0.1974 *

Saturn 64941-07-13 07:12 G 25440466.73 25440466.80 25440466.89 0.0281 0.0244

Neptune 64941-07-15 04:19 G 25440468.51 25440468.68 25440468.86 0.0088 0.0021

Neptune 64941-10-11 07:12 G 25440556.63 25440556.80 25440556.98 0.0088 0.0011

Neptune 64942-01-07 10:05 G 25440644.74 25440644.92 25440645.10 0.0088 0.0002

Neptune 64942-04-05 12:58 G 25440732.86 25440733.04 25440733.22 0.0088 0.0008

Neptune 64942-07-02 15:51 G 25440820.99 25440821.16 25440821.34 0.0088 0.0018

Neptune 64942-09-28 18:43 G 25440909.11 25440909.28 25440909.45 0.0088 0.0028

Neptune 64942-12-25 21:22 G 25440997.24 25440997.39 25440997.56 0.0088 0.0038

Neptune 64943-03-24 00:15 G 25441085.37 25441085.51 25441085.67 0.0088 0.0048

Mars 64943-06-11 01:27 G 25441164.49 25441164.56 25441164.62 0.1907 0.1689

Neptune 64943-06-20 03:07 G 25441173.51 25441173.63 25441173.78 0.0088 0.0058

Jupiter 64943-08-11 02:53 G 25441225.49 25441225.62 25441225.76 0.0544 0.0149

Neptune 64943-09-16 06:00 G 25441261.65 25441261.75 25441261.88 0.0088 0.0068

Moon 64943-12-11 17:03 G 25441348.08 25441348.21 25441348.34 0.2639 0.1260

Earth 64943-12-11 17:03 G 25441348.09 25441348.21 25441348.34 0.2645 0.1295 *

Neptune 64943-12-13 08:53 G 25441349.81 25441349.87 25441349.97 0.0088 0.0078

Neptune 64944-03-10 12:15 G 25441438.01 25441438.01 25441438.02 0.0088 0.0088

Mars 64948-03-04 06:43 G 25442892.70 25442892.78 25442892.86 0.1615 0.1272

Earth 64948-06-04 00:15 G 25442984.42 25442984.51 25442984.61 0.2689 0.1452

Moon 64948-06-04 00:43 G 25442984.43 25442984.53 25442984.63 0.2695 0.1453 *

Jupiter 64949-09-21 20:53 G 25443459.20 25443459.37 25443459.53 0.0485 0.0033

Jupiter 64955-05-30 05:46 G 25445535.63 25445535.74 25445535.85 0.0544 0.0341

Jupiter 64955-08-27 18:15 G 25445625.18 25445625.26 25445625.33 0.0542 0.0453

Saturn 64955-11-19 23:17 G 25445709.42 25445709.47 25445709.52 0.0277 0.0257

Saturn 64956-02-16 12:29 G 25445797.89 25445798.02 25445798.16 0.0277 0.0112

Saturn 64956-05-15 01:41 G 25445886.43 25445886.57 25445886.71 0.0277 0.0032

Saturn 64956-08-11 14:39 G 25445975.00 25445975.11 25445975.22 0.0278 0.0173

Mars 64957-07-25 15:36 G 25446323.03 25446323.15 25446323.28 0.1615 0.0512

Earth 64961-06-06 19:55 G 25447735.21 25447735.33 25447735.44 0.2688 0.0218

Moon 64961-06-06 20:39 G 25447735.24 25447735.36 25447735.48 0.2690 0.0038 *

Jupiter 64961-07-10 21:07 G 25447769.22 25447769.38 25447769.54 0.0485 0.0147

Earth 64963-12-06 18:43 G 25448648.19 25448648.28 25448648.38 0.2643 0.1943

Moon 64963-12-06 19:55 G 25448648.23 25448648.33 25448648.44 0.2641 0.1723 *

Mars 64964-02-27 20:53 G 25448731.29 25448731.37 25448731.45 0.1908 0.1547

Venus 64966-01-03 17:31 G 25449407.15 25449407.23 25449407.30 0.3684 0.2600

Mars 64966-12-16 00:15 G 25449753.38 25449753.51 25449753.65 0.1615 0.0279

Jupiter 64967-03-18 08:10 G 25449845.83 25449845.84 25449845.86 0.0544 0.0540

Jupiter 64967-06-15 21:07 G 25449935.26 25449935.38 25449935.50 0.0543 0.0264

Saturn 64970-06-05 17:03 G 25451021.08 25451021.21 25451021.34 0.0282 0.0171

Saturn 64970-09-02 11:17 G 25451109.80 25451109.97 25451110.13 0.0281 0.0004

Saturn 64970-11-30 05:46 G 25451198.62 25451198.74 25451198.87 0.0281 0.0179

Uranus 64971-01-24 09:51 G 25451253.86 25451253.91 25451253.96 0.0137 0.0126

Uranus 64971-04-22 13:27 G 25451341.98 25451342.06 25451342.15 0.0137 0.0106

Uranus 64971-07-19 17:17 G 25451430.11 25451430.22 25451430.33 0.0137 0.0085

Venus 64971-07-20 10:05 G 25451430.82 25451430.92 25451431.03 0.3684 0.0327

Uranus 64971-10-15 20:53 G 25451518.25 25451518.37 25451518.50 0.0137 0.0065

Uranus 64972-01-12 00:43 G 25451606.40 25451606.53 25451606.67 0.0137 0.0045

Uranus 64972-04-09 04:34 G 25451694.55 25451694.69 25451694.83 0.0137 0.0024

Uranus 64972-07-06 08:10 G 25451782.70 25451782.84 25451782.98 0.0137 0.0004

Uranus 64972-10-02 11:46 G 25451870.85 25451870.99 25451871.13 0.0137 0.0016

Pluto 64972-12-26 10:05 G 25451955.88 25451955.92 25451955.99 0.0065 0.0060

Uranus 64972-12-29 15:22 G 25451959.01 25451959.14 25451959.28 0.0137 0.0036

Venus 64973-02-01 10:34 G 25451992.81 25451992.94 25451993.07 0.3687 0.1412

Pluto 64973-03-24 10:48 G 25452043.87 25452043.95 25452044.06 0.0065 0.0050

Uranus 64973-03-27 18:58 G 25452047.17 25452047.29 25452047.42 0.0137 0.0056

Jupiter 64973-04-28 21:51 G 25452079.28 25452079.41 25452079.53 0.0485 0.0316

Pluto 64973-06-20 11:46 G 25452131.87 25452131.99 25452132.11 0.0065 0.0039

Uranus 64973-06-23 22:34 G 25452135.33 25452135.44 25452135.56 0.0137 0.0076

Mars 64973-07-19 23:03 G 25452161.32 25452161.46 25452161.60 0.1908 0.0031

Jupiter 64973-07-27 18:43 G 25452169.18 25452169.28 25452169.38 0.0486 0.0396

Pluto 64973-09-16 12:29 G 25452219.89 25452220.02 25452220.15 0.0065 0.0028

Uranus 64973-09-20 02:10 G 25452223.50 25452223.59 25452223.69 0.0137 0.0096

Pluto 64973-12-13 12:58 G 25452307.90 25452308.04 25452308.19 0.0066 0.0017

Uranus 64973-12-17 05:46 G 25452311.67 25452311.74 25452311.82 0.0137 0.0116

Pluto 64974-03-11 13:41 G 25452395.93 25452396.07 25452396.22 0.0066 0.0007

Uranus 64974-03-15 09:07 G 25452399.87 25452399.88 25452399.91 0.0138 0.0136

Pluto 64974-06-07 14:24 G 25452483.96 25452484.10 25452484.25 0.0066 0.0004

Earth 64974-06-09 15:07 G 25452486.02 25452486.13 25452486.24 0.2687 0.1025

Moon 64974-06-09 15:51 G 25452486.05 25452486.16 25452486.26 0.2684 0.1031 *

Pluto 64974-09-03 15:07 G 25452571.99 25452572.13 25452572.27 0.0066 0.0015

Pluto 64974-11-30 15:36 G 25452660.02 25452660.15 25452660.29 0.0066 0.0026

Pluto 64975-02-26 16:05 G 25452748.06 25452748.17 25452748.31 0.0066 0.0037

Pluto 64975-05-25 16:48 G 25452836.11 25452836.20 25452836.31 0.0066 0.0048

Pluto 64975-08-21 17:46 G 25452924.18 25452924.24 25452924.31 0.0066 0.0059

Mars 64976-05-07 08:53 G 25453183.77 25453183.87 25453183.97 0.1616 0.1069

Earth 64976-12-08 20:53 G 25453399.22 25453399.37 25453399.51 0.2644 0.0199

Moon 64976-12-08 21:36 G 25453399.26 25453399.40 25453399.55 0.2640 0.0173 *

Venus 64977-02-02 02:53 G 25453454.56 25453454.62 25453454.67 0.3683 0.3095

Jupiter 64979-04-03 23:03 G 25454245.33 25454245.46 25454245.60 0.0542 0.0058

Moon 64981-06-02 09:36 G 25455035.86 25455035.90 25455035.95 0.2698 0.2497

Earth 64981-06-02 09:51 G 25455035.87 25455035.91 25455035.95 0.2690 0.2494 *

Mars 64982-12-10 01:41 G 25455591.49 25455591.57 25455591.65 0.1907 0.1507

Jupiter 64985-05-15 18:43 G 25456479.13 25456479.28 25456479.43 0.0486 0.0215

Saturn 64985-07-05 14:53 G 25456530.00 25456530.12 25456530.24 0.0278 0.0147

Saturn 64985-10-02 04:05 G 25456618.52 25456618.67 25456618.81 0.0278 0.0003

Saturn 64985-12-29 17:03 G 25456707.09 25456707.21 25456707.33 0.0278 0.0140

Earth 64987-06-12 10:05 G 25457236.86 25457236.92 25457236.99 0.2686 0.2215

Moon 64987-06-12 10:19 G 25457236.88 25457236.93 25457236.99 0.2679 0.2289 *

Mars 64987-09-03 06:58 G 25457319.73 25457319.79 25457319.85 0.1615 0.1396

Moon 64989-12-11 23:03 G 25458150.35 25458150.46 25458150.57 0.2639 0.1662

Earth 64989-12-11 23:17 G 25458150.35 25458150.47 25458150.58 0.2646 0.1640 *

Jupiter 64991-01-21 01:12 G 25458555.42 25458555.55 25458555.69 0.0543 0.0149

Earth 64994-06-05 05:31 G 25459786.62 25459786.73 25459786.83 0.2689 0.1211

Moon 64994-06-05 06:00 G 25459786.65 25459786.75 25459786.86 0.2694 0.1135 *

Mars 64997-01-23 15:51 G 25460750.04 25460750.16 25460750.28 0.1615 0.0634

Jupiter 64997-03-03 18:43 G 25460789.11 25460789.28 25460789.44 0.0485 0.0032

Saturn 64999-10-23 19:41 G 25461753.21 25461753.32 25461753.44 0.0282 0.0196

Saturn 65000-01-20 13:55 G 25461841.92 25461842.08 25461842.25 0.0282 0.0023

Saturn 65000-04-19 08:24 G 25461930.72 25461930.85 25461931.00 0.0281 0.0153

66TH MILLENNIUM CE

This is a list of transits of Mercury in the 66th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Jupiter 65002-11-10 03:22 G 25462865.54 25462865.64 25462865.75 0.0544 0.0354

Jupiter 65003-02-07 15:51 G 25462955.09 25462955.16 25462955.24 0.0543 0.0441

Mars 65003-08-29 20:53 G 25463158.31 25463158.37 25463158.43 0.1908 0.1686

Mars 65006-06-17 00:29 G 25464180.39 25464180.52 25464180.66 0.1616 0.0149

Earth 65007-06-09 00:58 G 25464537.42 25464537.54 25464537.65 0.2688 0.0080

Moon 65007-06-09 01:41 G 25464537.46 25464537.57 25464537.69 0.2689 0.0079 *

Jupiter 65008-12-21 19:12 G 25465099.14 25465099.30 25465099.46 0.0485 0.0143

Earth 65009-12-08 00:43 G 25465450.42 25465450.53 25465450.64 0.2643 0.1617

Moon 65009-12-08 01:55 G 25465450.47 25465450.58 25465450.70 0.2641 0.1584 *

Uranus 65011-11-12 11:31 G 25466154.89 25466154.98 25466155.06 0.0141 0.0123

Uranus 65012-02-08 17:46 G 25466243.12 25466243.24 25466243.38 0.0141 0.0096

Uranus 65012-05-07 00:29 G 25466331.37 25466331.52 25466331.68 0.0141 0.0068

Uranus 65012-08-03 07:12 G 25466419.63 25466419.80 25466419.97 0.0141 0.0040

Uranus 65012-10-30 13:55 G 25466507.90 25466508.08 25466508.26 0.0141 0.0012

Mars 65013-01-18 23:31 G 25466588.34 25466588.48 25466588.62 0.1908 0.0172

Uranus 65013-01-26 20:39 G 25466596.18 25466596.36 25466596.54 0.0141 0.0016

Uranus 65013-04-25 03:07 G 25466684.47 25466684.63 25466684.81 0.0141 0.0044

Uranus 65013-07-22 10:05 G 25466772.77 25466772.92 25466773.08 0.0141 0.0072

Uranus 65013-10-18 17:03 G 25466861.08 25466861.21 25466861.33 0.0141 0.0100

Uranus 65014-01-14 23:31 G 25466949.43 25466949.48 25466949.57 0.0141 0.0129

Saturn 65014-11-23 16:34 G 25467262.09 25467262.19 25467262.30 0.0277 0.0187

Jupiter 65014-11-26 18:58 G 25467265.17 25467265.29 25467265.41 0.0543 0.0257

Saturn 65015-02-20 06:00 G 25467350.61 25467350.75 25467350.89 0.0277 0.0043

Saturn 65015-05-19 18:58 G 25467439.16 25467439.29 25467439.42 0.0277 0.0099

Saturn 65015-08-16 07:41 G 25467527.76 25467527.82 25467527.89 0.0278 0.0240

Mars 65015-11-07 09:07 G 25467610.77 25467610.88 25467610.99 0.1616 0.0931

Earth 65020-06-10 20:10 G 25469288.23 25469288.34 25469288.44 0.2687 0.1253

Moon 65020-06-10 20:39 G 25469288.26 25469288.36 25469288.46 0.2682 0.1379 *

Jupiter 65020-10-09 19:41 G 25469409.19 25469409.32 25469409.44 0.0485 0.0317

Neptune 65020-12-02 21:22 G 25469463.38 25469463.39 25469463.42 0.0089 0.0088

Jupiter 65021-01-07 16:19 G 25469499.09 25469499.18 25469499.28 0.0486 0.0393

Neptune 65021-02-28 23:03 G 25469551.41 25469551.46 25469551.53 0.0089 0.0080

Neptune 65021-05-28 00:43 G 25469639.46 25469639.53 25469639.63 0.0089 0.0071

Neptune 65021-08-24 02:39 G 25469727.51 25469727.61 25469727.71 0.0089 0.0063

Neptune 65021-11-20 04:05 G 25469815.57 25469815.67 25469815.79 0.0089 0.0055

Neptune 65022-02-16 05:46 G 25469903.63 25469903.74 25469903.87 0.0089 0.0046

Neptune 65022-05-15 07:41 G 25469991.69 25469991.82 25469991.95 0.0089 0.0038

Mars 65022-06-11 01:55 G 25470018.48 25470018.58 25470018.67 0.1907 0.1345

Neptune 65022-08-11 09:07 G 25470079.75 25470079.88 25470080.02 0.0089 0.0030

Venus 65022-08-11 15:07 G 25470080.04 25470080.13 25470080.23 0.3684 0.1513

Neptune 65022-11-07 10:48 G 25470167.82 25470167.95 25470168.09 0.0089 0.0022

Earth 65022-12-11 02:39 G 25470201.47 25470201.61 25470201.76 0.2644 0.0156

Moon 65022-12-11 03:22 G 25470201.49 25470201.64 25470201.78 0.2639 0.0287 *

Neptune 65023-02-03 12:29 G 25470255.88 25470256.02 25470256.17 0.0089 0.0013

Neptune 65023-05-02 14:10 G 25470343.95 25470344.09 25470344.23 0.0089 0.0005

Neptune 65023-07-29 15:51 G 25470432.02 25470432.16 25470432.30 0.0089 0.0003

Neptune 65023-10-25 17:31 G 25470520.09 25470520.23 25470520.37 0.0089 0.0012

Neptune 65024-01-21 18:58 G 25470608.16 25470608.29 25470608.43 0.0089 0.0020

Neptune 65024-04-18 20:39 G 25470696.23 25470696.36 25470696.49 0.0089 0.0028

Neptune 65024-07-15 22:19 G 25470784.30 25470784.43 25470784.56 0.0089 0.0036

Neptune 65024-10-11 23:46 G 25470872.37 25470872.49 25470872.61 0.0089 0.0044

Neptune 65025-01-08 01:27 G 25470960.44 25470960.56 25470960.67 0.0089 0.0052

Neptune 65025-04-06 02:53 G 25471048.52 25471048.62 25471048.73 0.0089 0.0060

Neptune 65025-07-03 04:19 G 25471136.60 25471136.68 25471136.78 0.0089 0.0068

Neptune 65025-09-29 06:00 G 25471224.68 25471224.75 25471224.83 0.0089 0.0075

Neptune 65025-12-26 07:27 G 25471312.77 25471312.81 25471312.87 0.0089 0.0083

Jupiter 65026-09-14 21:51 G 25471575.28 25471575.41 25471575.55 0.0543 0.0067

Mars 65027-03-05 07:12 G 25471746.76 25471746.80 25471746.84 0.1615 0.1522

Moon 65027-06-04 14:53 G 25471838.06 25471838.12 25471838.18 0.2697 0.2288

Earth 65027-06-04 14:53 G 25471838.06 25471838.12 25471838.18 0.2690 0.2249 *

Venus 65028-02-25 07:55 G 25472103.73 25472103.83 25472103.93 0.3683 0.1348

Saturn 65029-03-12 18:15 G 25472485.20 25472485.26 25472485.32 0.0282 0.0260

Saturn 65029-06-09 12:15 G 25472573.86 25472574.01 25472574.17 0.0282 0.0089

Saturn 65029-09-06 06:43 G 25472662.62 25472662.78 25472662.94 0.0281 0.0086

Venus 65029-09-09 10:48 G 25472665.81 25472665.95 25472666.08 0.3687 0.0637

Saturn 65029-12-04 01:41 G 25472751.51 25472751.57 25472751.62 0.0281 0.0264

Jupiter 65032-07-28 20:39 G 25473719.35 25473719.36 25473719.36 0.0485 0.0484

Jupiter 65032-10-26 16:48 G 25473809.05 25473809.20 25473809.35 0.0486 0.0217

Moon 65033-06-13 15:22 G 25474039.09 25474039.14 25474039.19 0.2679 0.2385

Earth 65033-06-13 15:07 G 25474039.09 25474039.13 25474039.18 0.2686 0.2435 *

Moon 65035-12-14 05:03 G 25474952.61 25474952.71 25474952.81 0.2639 0.1886

Earth 65035-12-14 05:17 G 25474952.62 25474952.72 25474952.81 0.2646 0.1978 *

Mars 65036-07-25 16:05 G 25475177.05 25475177.17 25475177.29 0.1615 0.0760

Jupiter 65038-07-04 00:00 G 25475885.37 25475885.50 25475885.63 0.0543 0.0140

Earth 65040-06-06 10:34 G 25476588.83 25476588.94 25476589.05 0.2689 0.0977

Moon 65040-06-06 11:17 G 25476588.86 25476588.97 25476589.08 0.2693 0.0898 *

Mars 65043-02-27 21:22 G 25477585.37 25477585.39 25477585.41 0.1908 0.1879

Saturn 65044-04-11 18:29 G 25477994.19 25477994.27 25477994.36 0.0277 0.0227

Saturn 65044-07-09 07:55 G 25478082.69 25478082.83 25478082.97 0.0278 0.0081

Jupiter 65044-08-14 17:03 G 25478119.04 25478119.21 25478119.38 0.0486 0.0039

Saturn 65044-10-05 20:53 G 25478171.24 25478171.37 25478171.51 0.0278 0.0063

Saturn 65045-01-02 09:51 G 25478259.82 25478259.91 25478260.01 0.0278 0.0204

Mars 65045-12-16 00:43 G 25478607.40 25478607.53 25478607.67 0.1616 0.0025

Jupiter 65050-04-22 01:55 G 25480195.48 25480195.58 25480195.69 0.0543 0.0348

Jupiter 65050-07-20 14:24 G 25480285.03 25480285.10 25480285.18 0.0542 0.0444

Mars 65052-07-19 23:31 G 25481015.34 25481015.48 25481015.61 0.1908 0.0319

Earth 65053-06-09 06:00 G 25481339.63 25481339.75 25481339.86 0.2688 0.0280

Moon 65053-06-09 06:43 G 25481339.66 25481339.78 25481339.89 0.2688 0.0399 *

Uranus 65055-02-14 16:19 G 25481955.13 25481955.18 25481955.26 0.0137 0.0122

Mars 65055-05-08 09:22 G 25482037.77 25482037.89 25482038.01 0.1616 0.0802

Uranus 65055-05-13 20:24 G 25482043.26 25482043.35 25482043.45 0.0137 0.0101

Uranus 65055-08-10 00:00 G 25482131.40 25482131.50 25482131.62 0.0137 0.0081

Uranus 65055-11-06 03:51 G 25482219.54 25482219.66 25482219.79 0.0137 0.0060

Earth 65055-12-09 06:43 G 25482252.65 25482252.78 25482252.90 0.2643 0.1307

Moon 65055-12-09 07:55 G 25482252.70 25482252.83 25482252.96 0.2641 0.1103 *

Uranus 65056-02-02 07:41 G 25482307.69 25482307.82 25482307.96 0.0137 0.0040

Uranus 65056-04-30 11:17 G 25482395.84 25482395.97 25482396.12 0.0137 0.0020

Jupiter 65056-06-02 17:17 G 25482429.06 25482429.22 25482429.38 0.0485 0.0141

Uranus 65056-07-27 15:07 G 25482483.99 25482484.13 25482484.27 0.0137 0.0001

Uranus 65056-10-23 18:43 G 25482572.14 25482572.28 25482572.42 0.0137 0.0021

Uranus 65057-01-19 22:19 G 25482660.30 25482660.43 25482660.57 0.0137 0.0041

Uranus 65057-04-18 01:55 G 25482748.46 25482748.58 25482748.71 0.0137 0.0061

Uranus 65057-07-15 05:46 G 25482836.62 25482836.74 25482836.85 0.0137 0.0081

Uranus 65057-10-11 09:07 G 25482924.79 25482924.88 25482924.98 0.0137 0.0101

Uranus 65058-01-07 12:29 G 25483012.97 25483013.02 25483013.10 0.0137 0.0121

Saturn 65058-10-27 14:39 G 25483305.96 25483306.11 25483306.26 0.0282 0.0118

Saturn 65059-01-24 09:07 G 25483394.72 25483394.88 25483395.04 0.0282 0.0057

Saturn 65059-04-23 03:36 G 25483483.57 25483483.65 25483483.75 0.0281 0.0235

Pluto 65061-03-25 11:03 G 25484185.88 25484185.96 25484186.07 0.0078 0.0064

Pluto 65061-06-21 12:58 G 25484273.91 25484274.04 25484274.20 0.0078 0.0043

Pluto 65061-09-17 15:07 G 25484361.97 25484362.13 25484362.30 0.0078 0.0021

Mars 65061-12-10 01:55 G 25484445.48 25484445.58 25484445.69 0.1907 0.1189

Pluto 65061-12-14 17:17 G 25484450.05 25484450.22 25484450.39 0.0078 0.0002

Pluto 65062-03-12 18:58 G 25484538.13 25484538.29 25484538.46 0.0078 0.0021

Jupiter 65062-05-08 16:48 G 25484595.08 25484595.20 25484595.32 0.0543 0.0247

Pluto 65062-06-08 20:53 G 25484626.23 25484626.37 25484626.52 0.0078 0.0042

Pluto 65062-09-04 22:34 G 25484714.36 25484714.44 25484714.56 0.0078 0.0063

Mars 65064-09-27 17:46 G 25485468.23 25485468.24 25485468.25 0.1617 0.1605

Earth 65066-06-12 01:12 G 25486090.45 25486090.55 25486090.64 0.2687 0.1483

Moon 65066-06-12 01:41 G 25486090.47 25486090.57 25486090.67 0.2681 0.1473 *

Jupiter 65068-03-21 18:00 G 25486739.12 25486739.25 25486739.38 0.0485 0.0310

Jupiter 65068-06-19 14:39 G 25486829.02 25486829.11 25486829.21 0.0486 0.0400

Earth 65068-12-11 08:39 G 25487003.72 25487003.86 25487004.00 0.2645 0.0478

Moon 65068-12-11 09:07 G 25487003.73 25487003.88 25487004.02 0.2638 0.0417 *

Earth 65073-06-04 19:55 G 25488640.25 25488640.33 25488640.41 0.2690 0.2010

Moon 65073-06-04 20:10 G 25488640.26 25488640.34 25488640.42 0.2696 0.1954 *

Saturn 65073-08-29 20:39 G 25488726.32 25488726.36 25488726.40 0.0276 0.0264

Venus 65073-09-01 20:10 G 25488729.29 25488729.34 25488729.38 0.3685 0.3338

Saturn 65073-11-26 09:51 G 25488814.79 25488814.91 25488815.05 0.0277 0.0120

Saturn 65074-02-22 23:03 G 25488903.32 25488903.46 25488903.61 0.0277 0.0024

Jupiter 65074-02-24 19:55 G 25488905.19 25488905.33 25488905.46 0.0543 0.0060

Saturn 65074-05-22 12:00 G 25488991.89 25488992.00 25488992.12 0.0277 0.0164

Mars 65076-01-24 16:19 G 25489604.07 25489604.18 25489604.29 0.1615 0.0893

Venus 65079-03-18 12:58 G 25490752.93 25490753.04 25490753.14 0.3684 0.0449

Earth 65079-06-14 20:10 G 25490841.33 25490841.34 25490841.35 0.2685 0.2657

Jupiter 65080-01-08 18:29 G 25491049.26 25491049.27 25491049.29 0.0484 0.0482

Jupiter 65080-04-07 14:39 G 25491138.96 25491139.11 25491139.27 0.0485 0.0218

Venus 65080-09-30 08:39 G 25491314.79 25491314.86 25491314.92 0.3686 0.3223

Moon 65081-12-14 10:48 G 25491754.89 25491754.95 25491755.02 0.2640 0.2345

Earth 65081-12-14 11:17 G 25491754.90 25491754.97 25491755.04 0.2646 0.2319 *

Venus 65084-10-01 05:31 G 25492776.65 25492776.73 25492776.81 0.3683 0.2404

Mars 65085-06-16 00:58 G 25493034.41 25493034.54 25493034.68 0.1616 0.0119

Jupiter 65085-12-13 22:48 G 25493215.31 25493215.45 25493215.58 0.0544 0.0131

Venus 65086-04-16 11:03 G 25493338.87 25493338.96 25493339.05 0.3687 0.2749

Earth 65086-06-07 15:36 G 25493391.04 25493391.15 25493391.26 0.2689 0.0740

Moon 65086-06-07 16:19 G 25493391.07 25493391.18 25493391.29 0.2693 0.0683 *

Saturn 65088-03-15 12:58 G 25494037.92 25494038.04 25494038.17 0.0282 0.0184

Saturn 65088-06-12 07:12 G 25494126.64 25494126.80 25494126.97 0.0282 0.0011

Saturn 65088-09-09 01:41 G 25494215.44 25494215.57 25494215.71 0.0281 0.0165

Moon 65088-12-06 12:15 G 25494303.98 25494304.01 25494304.04 0.2642 0.2567

Mars 65092-01-18 23:46 G 25495442.36 25495442.49 25495442.63 0.1908 0.0491

Jupiter 65092-01-25 15:22 G 25495448.97 25495449.14 25495449.31 0.0485 0.0044

Mars 65094-11-06 09:36 G 25496464.77 25496464.90 25496465.02 0.1616 0.0673

Uranus 65095-12-02 18:15 G 25496856.17 25496856.26 25496856.37 0.0141 0.0116

Uranus 65096-02-29 00:43 G 25496944.41 25496944.53 25496944.68 0.0141 0.0089

Uranus 65096-05-27 07:41 G 25497032.66 25497032.82 25497032.98 0.0141 0.0061

Uranus 65096-08-23 14:10 G 25497120.92 25497121.09 25497121.26 0.0141 0.0033

Uranus 65096-11-19 20:53 G 25497209.19 25497209.37 25497209.55 0.0141 0.0005

Uranus 65097-02-16 03:36 G 25497297.47 25497297.65 25497297.83 0.0141 0.0023

Uranus 65097-05-15 10:19 G 25497385.77 25497385.93 25497386.10 0.0141 0.0051

Uranus 65097-08-11 17:03 G 25497474.07 25497474.21 25497474.36 0.0141 0.0079

Jupiter 65097-10-02 00:58 G 25497525.43 25497525.54 25497525.64 0.0543 0.0337

Uranus 65097-11-07 23:46 G 25497562.38 25497562.49 25497562.61 0.0141 0.0108

Jupiter 65097-12-30 13:12 G 25497614.98 25497615.05 25497615.12 0.0542 0.0455

Uranus 65098-02-04 06:43 G 25497650.74 25497650.78 25497650.83 0.0141 0.0136

Earth 65099-06-10 10:48 G 25498141.84 25498141.95 25498142.07 0.2688 0.0508

Moon 65099-06-10 11:46 G 25498141.87 25498141.99 25498142.10 0.2686 0.0574 *

Mars 65101-06-11 02:10 G 25498872.48 25498872.59 25498872.71 0.1907 0.1019

Earth 65101-12-10 12:29 G 25499054.89 25499055.02 25499055.16 0.2643 0.0980

Moon 65101-12-10 13:41 G 25499054.93 25499055.07 25499055.20 0.2640 0.0927 *

Saturn 65103-04-16 11:17 G 25499546.86 25499546.97 25499547.09 0.0277 0.0164

Saturn 65103-07-14 00:29 G 25499635.38 25499635.52 25499635.67 0.0278 0.0021

Saturn 65103-10-10 13:27 G 25499723.94 25499724.06 25499724.19 0.0278 0.0123

Jupiter 65103-11-14 15:51 G 25499759.00 25499759.16 25499759.32 0.0485 0.0132

Saturn 65104-01-07 02:24 G 25499812.56 25499812.60 25499812.64 0.0278 0.0263

Mars 65104-03-29 18:00 G 25499895.19 25499895.25 25499895.30 0.1617 0.1474

Neptune 65104-08-04 07:41 G 25500022.78 25500022.82 25500022.90 0.0088 0.0082

Neptune 65104-10-31 10:48 G 25500110.85 25500110.95 25500111.05 0.0088 0.0072

Neptune 65105-01-27 13:12 G 25500198.95 25500199.05 25500199.19 0.0088 0.0063

Neptune 65105-04-25 16:19 G 25500287.04 25500287.18 25500287.32 0.0088 0.0053

Neptune 65105-07-22 18:58 G 25500375.15 25500375.29 25500375.45 0.0088 0.0044

Neptune 65105-10-18 21:51 G 25500463.25 25500463.41 25500463.58 0.0088 0.0034

Neptune 65106-01-15 00:43 G 25500551.36 25500551.53 25500551.70 0.0088 0.0024

Neptune 65106-04-13 03:22 G 25500639.48 25500639.64 25500639.83 0.0088 0.0015

Neptune 65106-07-10 06:29 G 25500727.59 25500727.77 25500727.95 0.0088 0.0005

Neptune 65106-10-06 09:22 G 25500815.71 25500815.89 25500816.06 0.0088 0.0005

Neptune 65107-01-02 12:00 G 25500903.83 25500904.00 25500904.18 0.0088 0.0015

Neptune 65107-03-31 14:53 G 25500991.95 25500992.12 25500992.30 0.0088 0.0025

Neptune 65107-06-27 17:46 G 25501080.08 25501080.24 25501080.41 0.0088 0.0035

Neptune 65107-09-23 20:39 G 25501168.21 25501168.36 25501168.52 0.0088 0.0044

Neptune 65107-12-20 23:31 G 25501256.35 25501256.48 25501256.63 0.0088 0.0054

Neptune 65108-03-18 02:24 G 25501344.49 25501344.60 25501344.73 0.0088 0.0064

Neptune 65108-06-14 05:17 G 25501432.64 25501432.72 25501432.83 0.0088 0.0074

Neptune 65108-09-10 08:10 G 25501520.80 25501520.84 25501520.90 0.0088 0.0085

Jupiter 65109-10-19 15:36 G 25501925.04 25501925.15 25501925.27 0.0542 0.0258

Earth 65112-06-13 06:00 G 25502892.67 25502892.75 25502892.84 0.2686 0.1706

Moon 65112-06-13 06:43 G 25502892.69 25502892.78 25502892.86 0.2681 0.1810 *

Earth 65114-12-13 14:39 G 25503805.97 25503806.11 25503806.25 0.2645 0.0804

Moon 65114-12-13 14:53 G 25503805.99 25503806.12 25503806.26 0.2638 0.0921 *

Mars 65115-07-26 16:19 G 25504031.08 25504031.18 25504031.29 0.1615 0.1016

Jupiter 65115-09-02 16:05 G 25504069.05 25504069.17 25504069.31 0.0485 0.0306

Jupiter 65115-12-01 12:58 G 25504158.95 25504159.04 25504159.13 0.0486 0.0405

Saturn 65117-08-03 15:07 G 25504770.02 25504770.13 25504770.23 0.0282 0.0216

Saturn 65117-10-31 09:07 G 25504858.72 25504858.88 25504859.05 0.0282 0.0045

Saturn 65118-01-28 03:51 G 25504947.51 25504947.66 25504947.81 0.0282 0.0132

Earth 65119-06-07 00:58 G 25505442.46 25505442.54 25505442.63 0.2690 0.1768

Moon 65119-06-07 01:27 G 25505442.47 25505442.56 25505442.64 0.2696 0.1796 *

Jupiter 65121-08-07 17:46 G 25506235.11 25506235.24 25506235.38 0.0543 0.0056

Mars 65124-12-16 01:12 G 25507461.42 25507461.55 25507461.68 0.1616 0.0248

Jupiter 65127-06-21 17:03 G 25508379.18 25508379.21 25508379.25 0.0484 0.0471

Jupiter 65127-09-19 13:12 G 25508468.91 25508469.05 25508469.20 0.0485 0.0228

Moon 65127-12-16 16:34 G 25508557.14 25508557.19 25508557.23 0.2641 0.2488

Venus 65130-04-09 17:46 G 25509402.16 25509402.24 25509402.33 0.3685 0.2255

Mars 65131-07-21 00:00 G 25509869.38 25509869.50 25509869.63 0.1908 0.0671

Earth 65132-06-08 20:39 G 25510193.24 25510193.36 25510193.47 0.2689 0.0508

Moon 65132-06-08 21:22 G 25510193.27 25510193.39 25510193.50 0.2692 0.0393 *

Saturn 65132-09-02 13:27 G 25510278.97 25510279.06 25510279.16 0.0276 0.0201

Saturn 65132-11-30 02:53 G 25510367.48 25510367.62 25510367.76 0.0277 0.0057

Saturn 65133-02-26 15:51 G 25510456.03 25510456.16 25510456.30 0.0277 0.0085

Saturn 65133-05-26 04:34 G 25510544.61 25510544.69 25510544.78 0.0277 0.0225

Jupiter 65133-05-26 20:39 G 25510545.23 25510545.36 25510545.50 0.0544 0.0138

Mars 65134-05-08 09:51 G 25510891.78 25510891.91 25510892.04 0.1616 0.0537

Earth 65134-12-08 16:48 G 25511106.14 25511106.20 25511106.25 0.2642 0.2382

Moon 65134-12-08 18:00 G 25511106.18 25511106.25 25511106.33 0.2642 0.2226 *

Venus 65135-10-24 10:34 G 25511425.84 25511425.94 25511426.05 0.3684 0.0643

Venus 65137-05-08 08:39 G 25511987.73 25511987.86 25511987.99 0.3687 0.1196

Uranus 65139-03-07 23:31 G 25512656.41 25512656.48 25512656.55 0.0137 0.0117

Uranus 65139-06-04 03:07 G 25512744.54 25512744.63 25512744.74 0.0137 0.0097

Jupiter 65139-07-08 13:27 G 25512778.90 25512779.06 25512779.23 0.0485 0.0050

Uranus 65139-08-31 06:58 G 25512832.68 25512832.79 25512832.91 0.0137 0.0076

Uranus 65139-11-27 10:48 G 25512920.82 25512920.95 25512921.08 0.0137 0.0056

Uranus 65140-02-23 14:24 G 25513008.97 25513009.10 25513009.24 0.0137 0.0036

Uranus 65140-05-21 18:15 G 25513097.12 25513097.26 25513097.40 0.0137 0.0015

Uranus 65140-08-17 21:51 G 25513185.27 25513185.41 25513185.55 0.0137 0.0005

Uranus 65140-11-14 01:41 G 25513273.43 25513273.57 25513273.70 0.0137 0.0026

Mars 65140-12-10 02:39 G 25513299.48 25513299.61 25513299.73 0.1907 0.0851

Uranus 65141-02-10 05:17 G 25513361.59 25513361.72 25513361.85 0.0137 0.0045

Venus 65141-05-09 03:07 G 25513449.60 25513449.63 25513449.67 0.3683 0.3449

Uranus 65141-05-09 08:39 G 25513449.75 25513449.86 25513449.99 0.0137 0.0066

Uranus 65141-08-05 12:15 G 25513537.91 25513538.01 25513538.13 0.0137 0.0085

Uranus 65141-11-01 16:05 G 25513626.08 25513626.17 25513626.26 0.0137 0.0105

Uranus 65142-01-28 19:27 G 25513714.26 25513714.31 25513714.38 0.0137 0.0125

Mars 65143-09-28 18:15 G 25514322.18 25514322.26 25514322.33 0.1617 0.1341

Jupiter 65145-03-14 23:31 G 25514855.37 25514855.48 25514855.59 0.0544 0.0329

Earth 65145-06-11 15:51 G 25514944.05 25514944.16 25514944.27 0.2688 0.0730

Moon 65145-06-11 16:34 G 25514944.08 25514944.19 25514944.31 0.2684 0.0802 *

Jupiter 65145-06-12 12:00 G 25514944.93 25514945.00 25514945.07 0.0543 0.0466

Saturn 65147-03-20 07:12 G 25515590.65 25515590.80 25515590.95 0.0282 0.0113

Saturn 65147-06-17 01:41 G 25515679.40 25515679.57 25515679.73 0.0282 0.0062

Saturn 65147-09-13 20:24 G 25515768.26 25515768.35 25515768.43 0.0281 0.0239

Earth 65147-12-11 18:29 G 25515857.13 25515857.27 25515857.41 0.2644 0.0656

Moon 65147-12-11 19:27 G 25515857.16 25515857.31 25515857.45 0.2639 0.0555 *

Jupiter 65151-04-26 14:10 G 25517088.93 25517089.09 25517089.25 0.0485 0.0123

Mars 65155-01-24 16:34 G 25518458.10 25518458.19 25518458.29 0.1615 0.1140

Jupiter 65157-01-01 01:41 G 25519165.55 25519165.57 25519165.59 0.0544 0.0534

Jupiter 65157-03-31 14:39 G 25519254.99 25519255.11 25519255.23 0.0542 0.0271

Earth 65158-06-14 11:03 G 25519694.88 25519694.96 25519695.04 0.2686 0.1931

Moon 65158-06-14 11:31 G 25519694.90 25519694.98 25519695.06 0.2681 0.1931 *

Earth 65160-12-13 20:39 G 25520608.23 25520608.36 25520608.49 0.2645 0.1143

Moon 65160-12-13 20:53 G 25520608.24 25520608.37 25520608.51 0.2638 0.1084 *

Saturn 65162-01-20 14:24 G 25521011.04 25521011.10 25521011.17 0.0277 0.0249

Saturn 65162-04-19 03:51 G 25521099.53 25521099.66 25521099.80 0.0277 0.0104

Saturn 65162-07-16 17:03 G 25521188.07 25521188.21 25521188.35 0.0278 0.0039

Saturn 65162-10-13 06:00 G 25521276.64 25521276.75 25521276.86 0.0278 0.0180

Jupiter 65163-02-12 14:53 G 25521398.99 25521399.12 25521399.25 0.0485 0.0295

Jupiter 65163-05-13 11:31 G 25521488.90 25521488.98 25521489.07 0.0486 0.0416

Mars 65164-06-16 01:27 G 25521888.43 25521888.56 25521888.69 0.1616 0.0375

Earth 65165-06-07 06:15 G 25522244.66 25522244.76 25522244.85 0.2690 0.1532

Moon 65165-06-07 06:43 G 25522244.68 25522244.78 25522244.87 0.2696 0.1411 *

Jupiter 65169-01-17 17:03 G 25523565.07 25523565.21 25523565.34 0.0543 0.0071

Mars 65171-01-19 00:15 G 25524296.38 25524296.51 25524296.63 0.1908 0.0821

Mars 65173-11-06 09:51 G 25525318.78 25525318.91 25525319.05 0.1616 0.0411

Jupiter 65174-12-01 15:36 G 25525709.11 25525709.15 25525709.20 0.0484 0.0463

Jupiter 65175-03-01 11:46 G 25525798.84 25525798.99 25525799.14 0.0485 0.0236

Saturn 65176-08-06 08:39 G 25526322.73 25526322.86 25526323.01 0.0282 0.0150

Saturn 65176-11-03 03:07 G 25526411.46 25526411.63 25526411.80 0.0282 0.0024

Saturn 65177-01-30 21:36 G 25526500.29 25526500.40 25526500.52 0.0282 0.0201

Earth 65178-06-10 01:41 G 25526995.45 25526995.57 25526995.68 0.2689 0.0270

Moon 65178-06-10 02:24 G 25526995.48 25526995.60 25526995.72 0.2691 0.0240 *

Uranus 65179-09-26 18:43 G 25527469.24 25527469.28 25527469.34 0.0142 0.0136

Uranus 65179-12-24 01:12 G 25527557.45 25527557.55 25527557.67 0.0141 0.0109

Uranus 65180-03-21 07:41 G 25527645.69 25527645.82 25527645.97 0.0141 0.0082

Mars 65180-06-10 02:39 G 25527726.48 25527726.61 25527726.74 0.1907 0.0694

Uranus 65180-06-17 14:24 G 25527733.94 25527734.10 25527734.27 0.0141 0.0054

Uranus 65180-09-13 21:07 G 25527822.21 25527822.38 25527822.56 0.0141 0.0026

Jupiter 65180-11-05 18:58 G 25527875.15 25527875.29 25527875.42 0.0544 0.0141

Earth 65180-12-08 22:34 G 25527908.36 25527908.44 25527908.53 0.2643 0.2060

Moon 65180-12-09 00:00 G 25527908.41 25527908.50 25527908.59 0.2642 0.1976 *

Uranus 65180-12-11 03:51 G 25527910.48 25527910.66 25527910.84 0.0141 0.0002

Uranus 65181-03-09 10:34 G 25527998.76 25527998.94 25527999.11 0.0141 0.0030

Uranus 65181-06-05 17:17 G 25528087.06 25528087.22 25528087.38 0.0141 0.0058

Uranus 65181-09-02 00:00 G 25528175.36 25528175.50 25528175.64 0.0141 0.0086

Uranus 65181-11-29 06:29 G 25528263.68 25528263.77 25528263.89 0.0141 0.0115

Mars 65183-03-29 18:29 G 25528749.18 25528749.27 25528749.36 0.1617 0.1202

Neptune 65185-08-30 21:07 G 25529634.34 25529634.38 25529634.44 0.0089 0.0082

Neptune 65185-11-26 22:34 G 25529722.38 25529722.44 25529722.54 0.0089 0.0075

Neptune 65186-02-23 00:29 G 25529810.43 25529810.52 25529810.63 0.0089 0.0066

Neptune 65186-05-22 02:10 G 25529898.49 25529898.59 25529898.71 0.0089 0.0058

Neptune 65186-08-18 03:51 G 25529986.55 25529986.66 25529986.79 0.0089 0.0049

Neptune 65186-11-14 05:46 G 25530074.61 25530074.74 25530074.87 0.0089 0.0041

Venus 65186-11-14 15:36 G 25530075.05 25530075.15 25530075.25 0.3684 0.1160

Jupiter 65186-12-18 12:15 G 25530108.85 25530109.01 25530109.18 0.0485 0.0063

Neptune 65187-02-10 07:12 G 25530162.68 25530162.80 25530162.94 0.0089 0.0033

Neptune 65187-05-09 08:53 G 25530250.74 25530250.87 25530251.01 0.0089 0.0025

Neptune 65187-08-05 10:34 G 25530338.81 25530338.94 25530339.09 0.0089 0.0016

Neptune 65187-11-01 12:15 G 25530426.87 25530427.01 25530427.16 0.0089 0.0008

Neptune 65188-01-28 13:55 G 25530514.94 25530515.08 25530515.22 0.0089 0.0001

Neptune 65188-04-25 15:36 G 25530603.01 25530603.15 25530603.29 0.0089 0.0008

Neptune 65188-07-22 17:17 G 25530691.08 25530691.22 25530691.36 0.0089 0.0017

Neptune 65188-10-18 18:43 G 25530779.15 25530779.28 25530779.42 0.0089 0.0025

Neptune 65189-01-14 20:24 G 25530867.22 25530867.35 25530867.48 0.0089 0.0033

Neptune 65189-04-12 22:05 G 25530955.29 25530955.42 25530955.54 0.0089 0.0041

Neptune 65189-07-09 23:31 G 25531043.37 25531043.48 25531043.60 0.0089 0.0049

Neptune 65189-10-06 01:12 G 25531131.44 25531131.55 25531131.66 0.0089 0.0057

Neptune 65190-01-02 02:39 G 25531219.52 25531219.61 25531219.71 0.0089 0.0065

Neptune 65190-03-31 04:05 G 25531307.60 25531307.67 25531307.76 0.0089 0.0073

Neptune 65190-06-27 05:46 G 25531395.69 25531395.74 25531395.80 0.0089 0.0080

Neptune 65190-09-23 07:12 G 25531483.79 25531483.80 25531483.83 0.0089 0.0088

Earth 65191-06-12 20:53 G 25531746.26 25531746.37 25531746.48 0.2687 0.0959

Moon 65191-06-12 21:36 G 25531746.30 25531746.40 25531746.51 0.2684 0.1069 *

Saturn 65191-09-06 06:15 G 25531831.63 25531831.76 25531831.88 0.0276 0.0140

Saturn 65191-12-03 19:27 G 25531920.16 25531920.31 25531920.45 0.0277 0.0004

Saturn 65192-03-01 08:24 G 25532008.73 25532008.85 25532008.97 0.0277 0.0144

Venus 65192-05-30 08:24 G 25532098.75 25532098.85 25532098.94 0.3683 0.1714

Jupiter 65192-08-24 21:36 G 25532185.29 25532185.40 25532185.51 0.0544 0.0335

Jupiter 65192-11-22 10:05 G 25532274.86 25532274.92 25532274.99 0.0543 0.0463

Earth 65193-12-12 00:29 G 25532659.38 25532659.52 25532659.66 0.2644 0.0330

Moon 65193-12-12 01:12 G 25532659.41 25532659.55 25532659.69 0.2638 0.0247 *

Venus 65193-12-13 08:53 G 25532660.74 25532660.87 25532661.01 0.3687 0.0885

Mars 65194-07-25 16:48 G 25532885.12 25532885.20 25532885.28 0.1615 0.1269

Moon 65198-06-05 15:22 G 25534296.11 25534296.14 25534296.18 0.2697 0.2543

Earth 65198-06-05 15:22 G 25534296.11 25534296.14 25534296.18 0.2691 0.2577 *

Jupiter 65198-10-06 12:43 G 25534418.87 25534419.03 25534419.19 0.0485 0.0114

Mars 65203-12-16 01:41 G 25536315.44 25536315.57 25536315.69 0.1616 0.0504

Jupiter 65204-06-13 00:15 G 25536495.48 25536495.51 25536495.54 0.0544 0.0528

Earth 65204-06-14 16:05 G 25536497.10 25536497.17 25536497.24 0.2686 0.2150

Moon 65204-06-14 16:19 G 25536497.11 25536497.18 25536497.25 0.2680 0.2171 *

Jupiter 65204-09-10 13:27 G 25536584.94 25536585.06 25536585.17 0.0543 0.0281

Saturn 65205-12-24 06:43 G 25537054.69 25537054.78 25537054.89 0.0282 0.0218

Saturn 65206-03-23 00:58 G 25537143.38 25537143.54 25537143.71 0.0282 0.0046

Saturn 65206-06-19 19:27 G 25537232.17 25537232.31 25537232.46 0.0282 0.0130

Moon 65206-12-15 02:39 G 25537410.49 25537410.61 25537410.73 0.2639 0.1505

Earth 65206-12-15 02:39 G 25537410.49 25537410.61 25537410.73 0.2645 0.1470 *

Mars 65210-07-20 00:29 G 25538723.40 25538723.52 25538723.64 0.1908 0.0986

Jupiter 65210-07-25 13:27 G 25538728.93 25538729.06 25538729.20 0.0485 0.0283

Jupiter 65210-10-23 10:05 G 25538818.85 25538818.92 25538819.00 0.0486 0.0427

Earth 65211-06-08 11:17 G 25539046.86 25539046.97 25539047.07 0.2690 0.1293

Moon 65211-06-08 11:46 G 25539046.89 25539046.99 25539047.09 0.2696 0.1312 *

Mars 65213-05-07 10:05 G 25539745.79 25539745.92 25539746.06 0.1616 0.0281

Jupiter 65216-06-29 16:05 G 25540895.03 25540895.17 25540895.30 0.0543 0.0086

Mars 65219-12-10 02:53 G 25542153.49 25542153.62 25542153.76 0.1907 0.0521

Saturn 65221-01-23 06:58 G 25542563.68 25542563.79 25542563.89 0.0277 0.0191

Saturn 65221-04-21 20:10 G 25542652.20 25542652.34 25542652.48 0.0277 0.0047

Pluto 65221-07-18 17:03 G 25542740.14 25542740.21 25542740.29 0.0065 0.0055

Saturn 65221-07-19 09:07 G 25542740.75 25542740.88 25542741.02 0.0277 0.0095

Pluto 65221-10-14 17:31 G 25542828.14 25542828.23 25542828.35 0.0065 0.0045

Saturn 65221-10-15 22:05 G 25542829.35 25542829.42 25542829.49 0.0278 0.0235

Pluto 65222-01-10 18:15 G 25542916.14 25542916.26 25542916.39 0.0065 0.0035

Pluto 65222-04-08 18:58 G 25543004.16 25543004.29 25543004.43 0.0065 0.0024

Jupiter 65222-05-13 14:10 G 25543039.04 25543039.09 25543039.15 0.0485 0.0453

Pluto 65222-07-05 19:41 G 25543092.18 25543092.32 25543092.47 0.0066 0.0013

Jupiter 65222-08-11 10:19 G 25543128.79 25543128.93 25543129.08 0.0486 0.0249

Mars 65222-09-27 18:43 G 25543176.18 25543176.28 25543176.38 0.1617 0.1073

Pluto 65222-10-01 20:24 G 25543180.21 25543180.35 25543180.50 0.0066 0.0003

Pluto 65222-12-28 21:07 G 25543268.24 25543268.38 25543268.53 0.0066 0.0009

Uranus 65222-12-30 02:24 G 25543269.58 25543269.60 25543269.64 0.0136 0.0133

Pluto 65223-03-26 21:36 G 25543356.27 25543356.40 25543356.55 0.0066 0.0020

Uranus 65223-03-28 06:00 G 25543357.69 25543357.75 25543357.84 0.0137 0.0113

Pluto 65223-06-22 22:19 G 25543444.31 25543444.43 25543444.57 0.0066 0.0030

Uranus 65223-06-24 10:05 G 25543445.82 25543445.92 25543446.03 0.0137 0.0092

Pluto 65223-09-18 23:03 G 25543532.35 25543532.46 25543532.58 0.0066 0.0041

Uranus 65223-09-20 13:41 G 25543533.96 25543534.07 25543534.20 0.0137 0.0072

Pluto 65223-12-15 23:31 G 25543620.41 25543620.48 25543620.58 0.0066 0.0052

Uranus 65223-12-17 17:31 G 25543622.10 25543622.23 25543622.37 0.0137 0.0051

Pluto 65224-03-13 00:15 G 25543708.48 25543708.51 25543708.56 0.0066 0.0063

Uranus 65224-03-14 21:22 G 25543710.25 25543710.39 25543710.53 0.0137 0.0031

Earth 65224-06-10 06:43 G 25543797.66 25543797.78 25543797.89 0.2688 0.0072

Moon 65224-06-10 07:27 G 25543797.69 25543797.81 25543797.93 0.2689 0.0120 *

Uranus 65224-06-11 00:58 G 25543798.40 25543798.54 25543798.69 0.0137 0.0011

Uranus 65224-09-07 04:48 G 25543886.56 25543886.70 25543886.84 0.0137 0.0010

Uranus 65224-12-04 08:24 G 25543974.72 25543974.85 25543974.99 0.0137 0.0030

Uranus 65225-03-02 12:00 G 25544062.87 25544063.00 25544063.13 0.0137 0.0050

Uranus 65225-05-29 15:36 G 25544151.04 25544151.15 25544151.28 0.0137 0.0070

Uranus 65225-08-25 19:12 G 25544239.20 25544239.30 25544239.41 0.0137 0.0090

Uranus 65225-11-21 22:48 G 25544327.38 25544327.45 25544327.54 0.0137 0.0110

Uranus 65226-02-18 02:24 G 25544415.56 25544415.60 25544415.65 0.0137 0.0129

Earth 65226-12-10 04:34 G 25544710.58 25544710.69 25544710.80 0.2643 0.1745

Moon 65226-12-10 05:46 G 25544710.62 25544710.74 25544710.85 0.2641 0.1558 *

Jupiter 65228-04-17 18:15 G 25545205.13 25545205.26 25545205.39 0.0543 0.0118

Mars 65234-01-23 17:03 G 25547312.14 25547312.21 25547312.27 0.1615 0.1390

Jupiter 65234-05-30 10:48 G 25547438.79 25547438.95 25547439.12 0.0485 0.0074

Saturn 65235-05-13 07:41 G 25547786.77 25547786.82 25547786.89 0.0282 0.0260

Saturn 65235-08-10 01:55 G 25547875.42 25547875.58 25547875.74 0.0282 0.0089

Saturn 65235-11-06 20:24 G 25547964.19 25547964.35 25547964.51 0.0282 0.0086

Saturn 65236-02-03 15:07 G 25548053.08 25548053.13 25548053.19 0.0282 0.0264

Earth 65237-06-13 01:55 G 25548548.48 25548548.58 25548548.69 0.2687 0.1188

Moon 65237-06-13 02:39 G 25548548.51 25548548.61 25548548.72 0.2684 0.1224 *

Venus 65237-12-05 20:24 G 25548724.29 25548724.35 25548724.41 0.3685 0.2989

Earth 65239-12-13 06:29 G 25549461.62 25549461.77 25549461.91 0.2644 0.0063

Moon 65239-12-13 07:12 G 25549461.65 25549461.80 25549461.94 0.2638 0.0067 *

Jupiter 65240-02-04 19:55 G 25549515.22 25549515.33 25549515.43 0.0544 0.0335

Jupiter 65240-05-04 08:24 G 25549604.78 25549604.85 25549604.92 0.0543 0.0463

Mars 65243-06-16 01:41 G 25550742.45 25550742.57 25550742.70 0.1616 0.0634

Venus 65243-06-21 13:27 G 25550747.95 25550748.06 25550748.16 0.3684 0.0152

Earth 65244-06-05 20:39 G 25551098.30 25551098.36 25551098.41 0.2691 0.2332

Moon 65244-06-05 20:39 G 25551098.31 25551098.36 25551098.42 0.2697 0.2358 *

Venus 65245-01-03 06:58 G 25551309.71 25551309.79 25551309.87 0.3686 0.2938

Jupiter 65246-03-18 11:31 G 25551748.82 25551748.98 25551749.15 0.0485 0.0098

Venus 65249-01-04 06:00 G 25552771.68 25552771.75 25552771.82 0.3683 0.2772

Mars 65250-01-18 00:58 G 25553150.43 25553150.54 25553150.65 0.1908 0.1176

Saturn 65250-06-12 09:22 G 25553295.81 25553295.89 25553295.98 0.0276 0.0224

Moon 65250-06-15 21:07 G 25553299.33 25553299.38 25553299.43 0.2679 0.2391

Earth 65250-06-15 21:07 G 25553299.33 25553299.38 25553299.43 0.2686 0.2374 *

Venus 65250-07-20 09:22 G 25553333.81 25553333.89 25553333.97 0.3687 0.3007

Saturn 65250-09-08 22:48 G 25553384.31 25553384.45 25553384.59 0.0276 0.0081

Saturn 65250-12-06 11:46 G 25553472.85 25553472.99 25553473.13 0.0277 0.0061

Saturn 65251-03-05 00:43 G 25553561.43 25553561.53 25553561.63 0.0277 0.0200

Jupiter 65251-11-23 22:19 G 25553825.41 25553825.43 25553825.46 0.0545 0.0533

Jupiter 65252-02-21 11:31 G 25553914.86 25553914.98 25553915.09 0.0543 0.0277

Mars 65252-11-05 10:19 G 25554172.80 25554172.93 25554173.07 0.1616 0.0155

Moon 65252-12-15 08:24 G 25554212.74 25554212.85 25554212.95 0.2639 0.1758

Earth 65252-12-15 08:39 G 25554212.76 25554212.86 25554212.97 0.2645 0.1815 *

Earth 65257-06-08 16:19 G 25555849.07 25555849.18 25555849.28 0.2690 0.1055

Moon 65257-06-08 16:48 G 25555849.09 25555849.20 25555849.31 0.2695 0.0929 *

Jupiter 65258-01-04 12:00 G 25556058.87 25556059.00 25556059.14 0.0484 0.0272

Jupiter 65258-04-04 08:39 G 25556148.79 25556148.86 25556148.93 0.0485 0.0437

Mars 65259-06-10 03:07 G 25556580.50 25556580.63 25556580.76 0.1907 0.0359

Mars 65262-03-28 18:43 G 25557603.18 25557603.28 25557603.40 0.1617 0.0943

Uranus 65263-10-17 01:41 G 25558170.51 25558170.57 25558170.65 0.0142 0.0129

Jupiter 65263-12-10 14:39 G 25558224.97 25558225.11 25558225.24 0.0544 0.0093

Uranus 65264-01-13 08:10 G 25558258.73 25558258.84 25558258.97 0.0141 0.0102

Uranus 65264-04-10 14:39 G 25558346.97 25558347.11 25558347.27 0.0141 0.0075

Uranus 65264-07-07 21:22 G 25558435.23 25558435.39 25558435.56 0.0141 0.0047

Uranus 65264-10-04 04:05 G 25558523.49 25558523.67 25558523.84 0.0141 0.0019

Saturn 65264-12-27 00:00 G 25558607.37 25558607.50 25558607.64 0.0282 0.0156

Uranus 65264-12-31 10:48 G 25558611.77 25558611.95 25558612.12 0.0141 0.0009

Saturn 65265-03-25 18:29 G 25558696.10 25558696.27 25558696.43 0.0282 0.0019

Uranus 65265-03-29 17:17 G 25558700.05 25558700.22 25558700.40 0.0141 0.0037

Saturn 65265-06-22 12:58 G 25558784.92 25558785.04 25558785.16 0.0282 0.0194

Uranus 65265-06-26 00:00 G 25558788.35 25558788.50 25558788.67 0.0141 0.0065

Uranus 65265-09-22 06:58 G 25558876.66 25558876.79 25558876.92 0.0141 0.0093

Uranus 65265-12-19 13:27 G 25558964.99 25558965.06 25558965.16 0.0141 0.0122

Mars 65268-10-30 06:00 G 25560010.71 25560010.75 25560010.78 0.1906 0.1824

Neptune 65269-02-02 04:05 G 25560105.65 25560105.67 25560105.73 0.0088 0.0085

Neptune 65269-05-01 07:12 G 25560193.72 25560193.80 25560193.89 0.0088 0.0075

Neptune 65269-07-28 09:51 G 25560281.80 25560281.91 25560282.03 0.0088 0.0066

Jupiter 65269-10-23 12:58 G 25560368.98 25560369.04 25560369.11 0.0484 0.0438

Neptune 65269-10-24 12:29 G 25560369.90 25560370.02 25560370.17 0.0088 0.0057

Neptune 65270-01-20 15:22 G 25560458.00 25560458.14 25560458.30 0.0088 0.0047

Jupiter 65270-01-21 09:07 G 25560458.74 25560458.88 25560459.02 0.0485 0.0262

Neptune 65270-04-18 18:15 G 25560546.10 25560546.26 25560546.42 0.0088 0.0037

Earth 65270-06-11 11:46 G 25560599.87 25560599.99 25560600.10 0.2688 0.0207

Moon 65270-06-11 12:29 G 25560599.91 25560600.02 25560600.14 0.2688 0.0224 *

Neptune 65270-07-15 20:53 G 25560634.21 25560634.37 25560634.55 0.0088 0.0028

Neptune 65270-10-11 23:46 G 25560722.32 25560722.49 25560722.67 0.0088 0.0018

Neptune 65271-01-08 02:39 G 25560810.44 25560810.61 25560810.79 0.0088 0.0009

Neptune 65271-04-06 05:31 G 25560898.55 25560898.73 25560898.91 0.0088 0.0002

Neptune 65271-07-03 08:24 G 25560986.67 25560986.85 25560987.03 0.0088 0.0011

Neptune 65271-09-29 11:17 G 25561074.80 25561074.97 25561075.14 0.0088 0.0021

Neptune 65271-12-26 13:55 G 25561162.92 25561163.08 25561163.26 0.0088 0.0031

Neptune 65272-03-23 16:48 G 25561251.05 25561251.20 25561251.37 0.0088 0.0041

Neptune 65272-06-19 19:41 G 25561339.18 25561339.32 25561339.48 0.0088 0.0051

Neptune 65272-09-15 22:34 G 25561427.32 25561427.44 25561427.58 0.0088 0.0061

Earth 65272-12-10 10:34 G 25561512.82 25561512.94 25561513.06 0.2643 0.1422

Moon 65272-12-10 11:31 G 25561512.86 25561512.98 25561513.10 0.2639 0.1404 *

Neptune 65272-12-13 01:12 G 25561515.47 25561515.55 25561515.68 0.0088 0.0072

Neptune 65273-03-11 04:05 G 25561603.63 25561603.67 25561603.76 0.0088 0.0082

Mars 65273-07-24 17:03 G 25561739.17 25561739.21 25561739.26 0.1615 0.1514

Jupiter 65275-09-28 17:17 G 25562535.08 25562535.22 25562535.35 0.0543 0.0104

Saturn 65280-01-26 23:03 G 25564116.34 25564116.46 25564116.59 0.0277 0.0135

Saturn 65280-04-24 12:15 G 25564204.87 25564205.01 25564205.16 0.0277 0.0009

Saturn 65280-07-22 01:12 G 25564293.43 25564293.55 25564293.67 0.0277 0.0149

Jupiter 65281-11-09 09:36 G 25564768.73 25564768.90 25564769.07 0.0485 0.0086

Mars 65282-12-15 01:55 G 25565169.46 25565169.58 25565169.70 0.1616 0.0758

Earth 65283-06-14 06:58 G 25565350.69 25565350.79 25565350.89 0.2687 0.1411

Moon 65283-06-14 07:41 G 25565350.72 25565350.82 25565350.91 0.2683 0.1526 *

Earth 65285-12-13 12:29 G 25566263.87 25566264.02 25566264.16 0.2644 0.0339

Moon 65285-12-13 12:58 G 25566263.90 25566264.04 25566264.18 0.2638 0.0431 *

Jupiter 65287-07-17 19:27 G 25566845.20 25566845.31 25566845.42 0.0544 0.0307

Jupiter 65287-10-15 07:55 G 25566934.77 25566934.83 25566934.89 0.0542 0.0487

Mars 65289-07-19 00:43 G 25567577.43 25567577.53 25567577.63 0.1908 0.1316

Earth 65290-06-07 01:41 G 25567900.50 25567900.57 25567900.64 0.2690 0.2086

Moon 65290-06-07 01:55 G 25567900.51 25567900.58 25567900.65 0.2697 0.2059 *

Mars 65292-05-06 10:34 G 25568599.81 25568599.94 25568600.08 0.1616 0.0022

Jupiter 65293-08-28 10:19 G 25569078.76 25569078.93 25569079.09 0.0485 0.0085

Saturn 65294-05-16 00:29 G 25569339.42 25569339.52 25569339.64 0.0282 0.0203

Venus 65294-07-12 18:15 G 25569397.17 25569397.26 25569397.35 0.3685 0.1882

Saturn 65294-08-12 18:58 G 25569428.12 25569428.29 25569428.45 0.0282 0.0030

Saturn 65294-11-09 13:12 G 25569516.92 25569517.05 25569517.20 0.0282 0.0147

Moon 65296-06-16 02:10 G 25570101.56 25570101.59 25570101.62 0.2679 0.2552

Earth 65296-06-16 02:10 G 25570101.56 25570101.59 25570101.61 0.2686 0.2594 *

Mars 65298-12-09 03:22 G 25571007.50 25571007.64 25571007.78 0.1907 0.0198

Moon 65298-12-16 14:10 G 25571015.00 25571015.09 25571015.18 0.2639 0.2070

Earth 65298-12-16 14:39 G 25571015.03 25571015.11 25571015.20 0.2645 0.2151 *

Jupiter 65299-05-05 20:39 G 25571155.34 25571155.36 25571155.39 0.0544 0.0530

Jupiter 65299-08-03 09:51 G 25571244.80 25571244.91 25571245.03 0.0543 0.0279

Venus 65300-01-26 11:03 G 25571420.86 25571420.96 25571421.06 0.3684 0.1016

Venus 65301-08-11 06:58 G 25571982.66 25571982.79 25571982.93 0.3687 0.0922

Mars 65301-09-27 19:12 G 25572030.18 25572030.30 25572030.41 0.1617 0.0806

Earth 65303-06-10 21:22 G 25572651.28 25572651.39 25572651.50 0.2689 0.0815

Moon 65303-06-10 22:05 G 25572651.30 25572651.42 25572651.53 0.2693 0.0794 *

Jupiter 65305-06-17 11:17 G 25573388.83 25573388.97 25573389.11 0.0484 0.0253

Jupiter 65305-09-15 07:41 G 25573478.77 25573478.82 25573478.88 0.0485 0.0457

Uranus 65307-01-20 09:07 G 25573970.84 25573970.88 25573970.93 0.0136 0.0129

Uranus 65307-04-18 13:12 G 25574058.96 25574059.05 25574059.13 0.0137 0.0108

Uranus 65307-07-15 16:48 G 25574147.10 25574147.20 25574147.31 0.0137 0.0088

Uranus 65307-10-11 20:39 G 25574235.24 25574235.36 25574235.49 0.0137 0.0067

Uranus 65308-01-08 00:29 G 25574323.39 25574323.52 25574323.65 0.0137 0.0047

Uranus 65308-04-05 04:05 G 25574411.54 25574411.67 25574411.81 0.0137 0.0027

Mars 65308-05-01 06:15 G 25574437.70 25574437.76 25574437.83 0.1906 0.1649

Uranus 65308-07-02 07:55 G 25574499.69 25574499.83 25574499.97 0.0137 0.0006

Uranus 65308-09-28 11:31 G 25574587.84 25574587.98 25574588.12 0.0137 0.0014

Uranus 65308-12-25 15:07 G 25574676.00 25574676.13 25574676.27 0.0137 0.0035

Uranus 65309-03-23 18:58 G 25574764.16 25574764.29 25574764.42 0.0137 0.0054

Saturn 65309-06-16 01:41 G 25574848.46 25574848.57 25574848.69 0.0276 0.0167

Uranus 65309-06-19 22:34 G 25574852.32 25574852.44 25574852.56 0.0137 0.0074

Saturn 65309-09-12 15:07 G 25574936.98 25574937.13 25574937.27 0.0276 0.0026

Uranus 65309-09-16 01:55 G 25574940.49 25574940.58 25574940.69 0.0137 0.0095

Pluto 65309-10-15 16:48 G 25574970.10 25574970.20 25574970.33 0.0078 0.0059

Saturn 65309-12-10 04:05 G 25575025.54 25575025.67 25575025.80 0.0277 0.0117

Uranus 65309-12-13 05:31 G 25575028.67 25575028.73 25575028.82 0.0137 0.0114

Pluto 65310-01-11 18:43 G 25575058.15 25575058.28 25575058.45 0.0078 0.0038

Saturn 65310-03-08 16:34 G 25575114.15 25575114.19 25575114.25 0.0277 0.0255

Uranus 65310-03-11 09:22 G 25575116.86 25575116.89 25575116.92 0.0137 0.0134

Pluto 65310-04-09 20:53 G 25575146.21 25575146.37 25575146.54 0.0078 0.0016

Pluto 65310-07-06 23:03 G 25575234.29 25575234.46 25575234.63 0.0078 0.0005

Pluto 65310-10-03 00:43 G 25575322.38 25575322.53 25575322.70 0.0078 0.0026

Pluto 65310-12-30 02:39 G 25575410.48 25575410.61 25575410.75 0.0078 0.0047

Mars 65311-02-18 03:22 G 25575460.64 25575460.64 25575460.64 0.1618 0.1614

Pluto 65311-03-28 04:19 G 25575498.61 25575498.68 25575498.78 0.0078 0.0068

Jupiter 65311-05-23 12:43 G 25575554.90 25575555.03 25575555.16 0.0544 0.0089

Earth 65316-06-12 16:48 G 25577402.08 25577402.20 25577402.31 0.2688 0.0431

Moon 65316-06-12 17:31 G 25577402.12 25577402.23 25577402.35 0.2687 0.0596 *

Jupiter 65317-04-05 11:46 G 25577698.92 25577698.99 25577699.07 0.0484 0.0425

Jupiter 65317-07-04 07:55 G 25577788.69 25577788.83 25577788.97 0.0485 0.0274

Earth 65318-12-12 16:19 G 25578315.05 25578315.18 25578315.31 0.2643 0.1109

Moon 65318-12-12 17:31 G 25578315.09 25578315.23 25578315.36 0.2639 0.0907 *

Mars 65322-06-16 02:10 G 25579596.48 25579596.59 25579596.70 0.1616 0.0882

Jupiter 65323-03-11 15:51 G 25579865.02 25579865.16 25579865.29 0.0544 0.0098

Saturn 65323-10-03 23:03 G 25580071.42 25580071.46 25580071.52 0.0283 0.0266

Saturn 65323-12-31 17:03 G 25580160.06 25580160.21 25580160.37 0.0282 0.0096

Saturn 65324-03-29 11:31 G 25580248.82 25580248.98 25580249.14 0.0282 0.0079

Saturn 65324-06-26 06:00 G 25580337.69 25580337.75 25580337.83 0.0282 0.0257

Mars 65329-01-18 01:12 G 25582004.46 25582004.55 25582004.63 0.1908 0.1490

Jupiter 65329-04-22 08:24 G 25582098.69 25582098.85 25582099.02 0.0485 0.0101

Earth 65329-06-15 12:00 G 25582152.91 25582153.00 25582153.09 0.2687 0.1639

Moon 65329-06-15 12:29 G 25582152.93 25582153.02 25582153.11 0.2681 0.1614 *

Mars 65331-11-06 10:48 G 25583026.81 25583026.95 25583027.08 0.1616 0.0110

Earth 65331-12-15 18:15 G 25583066.13 25583066.26 25583066.40 0.2644 0.0667

Moon 65331-12-15 18:43 G 25583066.14 25583066.28 25583066.42 0.2638 0.0623 *

Jupiter 65334-12-28 18:15 G 25584175.15 25584175.26 25584175.38 0.0544 0.0294

Jupiter 65335-03-28 06:58 G 25584264.74 25584264.79 25584264.84 0.0543 0.0501

Earth 65336-06-08 06:43 G 25584702.70 25584702.78 25584702.87 0.2690 0.1847

Moon 65336-06-08 06:58 G 25584702.71 25584702.79 25584702.88 0.2697 0.1825 *

Mars 65338-06-10 03:36 G 25585434.51 25585434.65 25585434.78 0.1907 0.0046

Saturn 65338-11-03 01:55 G 25585580.50 25585580.58 25585580.67 0.0276 0.0223

Saturn 65339-01-30 15:22 G 25585669.00 25585669.14 25585669.28 0.0277 0.0079

Saturn 65339-04-29 04:19 G 25585757.55 25585757.68 25585757.83 0.0277 0.0064

Saturn 65339-07-26 17:17 G 25585846.13 25585846.22 25585846.32 0.0277 0.0203

Jupiter 65341-02-08 09:07 G 25586408.71 25586408.88 25586409.04 0.0485 0.0074

Mars 65341-03-28 19:12 G 25586457.18 25586457.30 25586457.43 0.1617 0.0678

Moon 65344-12-17 20:10 G 25587817.29 25587817.34 25587817.39 0.2639 0.2459

Earth 65344-12-17 20:53 G 25587817.32 25587817.37 25587817.41 0.2646 0.2498 *

Jupiter 65346-10-16 20:24 G 25588485.30 25588485.35 25588485.41 0.0544 0.0500

Jupiter 65347-01-14 09:36 G 25588574.79 25588574.90 25588575.01 0.0543 0.0307

Mars 65347-10-31 06:15 G 25588864.68 25588864.76 25588864.84 0.1906 0.1513

Uranus 65347-11-07 08:39 G 25588871.78 25588871.86 25588871.95 0.0142 0.0122

Uranus 65348-02-03 15:07 G 25588960.01 25588960.13 25588960.27 0.0141 0.0095

Uranus 65348-05-01 21:36 G 25589048.26 25589048.40 25589048.56 0.0141 0.0068

Uranus 65348-07-29 04:19 G 25589136.51 25589136.68 25589136.85 0.0141 0.0040

Uranus 65348-10-25 11:03 G 25589224.78 25589224.96 25589225.13 0.0141 0.0012

Uranus 65349-01-21 17:31 G 25589313.06 25589313.23 25589313.41 0.0141 0.0016

Uranus 65349-04-20 00:15 G 25589401.35 25589401.51 25589401.68 0.0141 0.0044

Earth 65349-06-11 02:24 G 25589453.48 25589453.60 25589453.71 0.2689 0.0576

Moon 65349-06-11 03:07 G 25589453.52 25589453.63 25589453.75 0.2691 0.0471 *

Uranus 65349-07-17 06:58 G 25589489.64 25589489.79 25589489.95 0.0141 0.0072

Uranus 65349-10-13 13:55 G 25589577.95 25589578.08 25589578.20 0.0141 0.0100

Uranus 65350-01-09 20:24 G 25589666.29 25589666.35 25589666.43 0.0141 0.0129

Neptune 65350-03-01 19:12 G 25589717.27 25589717.30 25589717.35 0.0089 0.0085

Neptune 65350-05-28 21:07 G 25589805.31 25589805.38 25589805.45 0.0089 0.0077

Mars 65350-08-19 03:36 G 25589887.60 25589887.65 25589887.70 0.1618 0.1481

Neptune 65350-08-24 22:34 G 25589893.36 25589893.44 25589893.54 0.0089 0.0069

Neptune 65350-11-21 00:15 G 25589981.42 25589981.51 25589981.63 0.0089 0.0061

Neptune 65351-02-17 02:10 G 25590069.48 25590069.59 25590069.71 0.0089 0.0052

Venus 65351-02-17 16:05 G 25590070.06 25590070.17 25590070.27 0.3685 0.0790

Neptune 65351-05-16 03:51 G 25590157.54 25590157.66 25590157.79 0.0089 0.0044

Neptune 65351-08-12 05:31 G 25590245.60 25590245.73 25590245.86 0.0089 0.0035

Neptune 65351-11-08 06:58 G 25590333.66 25590333.79 25590333.94 0.0089 0.0028

Earth 65351-12-10 20:39 G 25590366.32 25590366.36 25590366.41 0.2642 0.2490

Moon 65351-12-10 21:51 G 25590366.35 25590366.41 25590366.48 0.2641 0.2314 *

Neptune 65352-02-04 08:53 G 25590421.73 25590421.87 25590422.01 0.0089 0.0019

Neptune 65352-05-02 10:34 G 25590509.80 25590509.94 25590510.08 0.0089 0.0011

Neptune 65352-07-29 12:15 G 25590597.86 25590598.01 25590598.15 0.0089 0.0004

Neptune 65352-10-25 13:41 G 25590685.93 25590686.07 25590686.22 0.0089 0.0006

Jupiter 65352-11-27 09:51 G 25590718.77 25590718.91 25590719.06 0.0484 0.0240

Neptune 65353-01-21 15:22 G 25590774.00 25590774.14 25590774.28 0.0089 0.0014

Jupiter 65353-02-25 06:29 G 25590808.73 25590808.77 25590808.81 0.0485 0.0471

Neptune 65353-04-19 16:48 G 25590862.07 25590862.20 25590862.34 0.0089 0.0022

Saturn 65353-05-19 17:03 G 25590892.08 25590892.21 25590892.36 0.0282 0.0147

Neptune 65353-07-16 18:29 G 25590950.14 25590950.27 25590950.41 0.0089 0.0030

Saturn 65353-08-16 11:31 G 25590980.81 25590980.98 25590981.14 0.0282 0.0027

Neptune 65353-10-12 19:55 G 25591038.21 25591038.33 25591038.47 0.0089 0.0038

Saturn 65353-11-13 06:00 G 25591069.64 25591069.75 25591069.87 0.0282 0.0204

Neptune 65354-01-08 21:36 G 25591126.29 25591126.40 25591126.53 0.0089 0.0046

Neptune 65354-04-06 23:03 G 25591214.36 25591214.46 25591214.58 0.0089 0.0054

Neptune 65354-07-04 00:43 G 25591302.44 25591302.53 25591302.64 0.0089 0.0062

Neptune 65354-09-30 02:10 G 25591390.52 25591390.59 25591390.69 0.0089 0.0070

Neptune 65354-12-27 04:05 G 25591478.60 25591478.67 25591478.74 0.0089 0.0078

Neptune 65355-03-25 05:31 G 25591566.70 25591566.73 25591566.77 0.0089 0.0086

Venus 65356-09-02 08:53 G 25592093.78 25592093.87 25592093.95 0.3684 0.2088

Venus 65358-03-18 07:12 G 25592655.67 25592655.80 25592655.94 0.3687 0.1151

Jupiter 65358-11-02 11:17 G 25592884.83 25592884.97 25592885.10 0.0544 0.0094

Mars 65361-12-15 02:24 G 25594023.49 25594023.60 25594023.70 0.1616 0.1009

Earth 65362-06-13 21:51 G 25594204.30 25594204.41 25594204.52 0.2688 0.0663

Moon 65362-06-13 22:34 G 25594204.33 25594204.44 25594204.56 0.2687 0.0687 *

Jupiter 65364-09-15 11:03 G 25595028.87 25595028.96 25595029.05 0.0484 0.0405

Earth 65364-12-12 22:19 G 25595117.29 25595117.43 25595117.56 0.2643 0.0784

Moon 65364-12-12 23:17 G 25595117.34 25595117.47 25595117.61 0.2639 0.0775 *

Jupiter 65364-12-14 06:58 G 25595118.66 25595118.79 25595118.93 0.0485 0.0295

Saturn 65368-03-22 04:48 G 25596312.64 25596312.70 25596312.76 0.0276 0.0253

Saturn 65368-06-18 18:15 G 25596401.12 25596401.26 25596401.39 0.0276 0.0109

Mars 65368-07-19 01:27 G 25596431.50 25596431.56 25596431.63 0.1908 0.1666

Saturn 65368-09-15 07:12 G 25596489.66 25596489.80 25596489.95 0.0276 0.0034

Saturn 65368-12-12 20:10 G 25596578.23 25596578.34 25596578.45 0.0277 0.0172

Jupiter 65370-08-21 13:55 G 25597194.94 25597195.08 25597195.21 0.0544 0.0102

Mars 65371-05-07 11:03 G 25597453.83 25597453.96 25597454.09 0.1616 0.0241

Earth 65375-06-16 17:03 G 25598955.13 25598955.21 25598955.29 0.2687 0.1862

Moon 65375-06-16 17:17 G 25598955.15 25598955.22 25598955.30 0.2680 0.1964 *

Jupiter 65376-10-02 07:12 G 25599428.63 25599428.80 25599428.96 0.0485 0.0114

Mars 65377-12-09 03:51 G 25599861.52 25599861.66 25599861.79 0.1907 0.0141

Moon 65377-12-16 00:15 G 25599868.38 25599868.51 25599868.64 0.2638 0.1069

Earth 65377-12-16 00:15 G 25599868.38 25599868.51 25599868.64 0.2644 0.0986 *

Mars 65380-09-26 19:27 G 25600884.19 25600884.31 25600884.44 0.1617 0.0547

Earth 65382-06-09 11:46 G 25601504.90 25601504.99 25601505.09 0.2690 0.1606

Moon 65382-06-09 12:15 G 25601504.91 25601505.01 25601505.10 0.2696 0.1601 *

Jupiter 65382-06-09 16:48 G 25601505.08 25601505.20 25601505.31 0.0544 0.0291 *

Jupiter 65382-09-07 05:17 G 25601594.68 25601594.72 25601594.77 0.0543 0.0507

Saturn 65382-10-06 16:05 G 25601624.06 25601624.17 25601624.28 0.0283 0.0207

Saturn 65383-01-03 10:05 G 25601712.76 25601712.92 25601713.09 0.0282 0.0035

Saturn 65383-04-02 04:34 G 25601801.55 25601801.69 25601801.84 0.0282 0.0141

Mars 65387-05-01 06:29 G 25603291.68 25603291.77 25603291.87 0.1906 0.1338

Jupiter 65388-07-21 07:55 G 25603738.66 25603738.83 25603739.00 0.0485 0.0058

Mars 65390-02-17 03:51 G 25604314.58 25604314.66 25604314.73 0.1618 0.1348

Uranus 65391-02-09 16:05 G 25604672.12 25604672.17 25604672.24 0.0136 0.0124

Uranus 65391-05-08 20:10 G 25604760.25 25604760.34 25604760.43 0.0137 0.0103

Uranus 65391-08-04 23:46 G 25604848.38 25604848.49 25604848.61 0.0137 0.0083

Uranus 65391-11-01 03:36 G 25604936.53 25604936.65 25604936.78 0.0137 0.0062

Uranus 65392-01-28 07:27 G 25605024.67 25605024.81 25605024.94 0.0137 0.0042

Uranus 65392-04-25 11:03 G 25605112.83 25605112.96 25605113.10 0.0137 0.0022

Uranus 65392-07-22 14:53 G 25605200.98 25605201.12 25605201.26 0.0137 0.0001

Uranus 65392-10-18 18:29 G 25605289.14 25605289.27 25605289.41 0.0137 0.0019

Uranus 65393-01-14 22:19 G 25605377.29 25605377.43 25605377.56 0.0137 0.0039

Uranus 65393-04-13 01:55 G 25605465.45 25605465.58 25605465.71 0.0137 0.0059

Uranus 65393-07-10 05:31 G 25605553.62 25605553.73 25605553.84 0.0137 0.0079

Uranus 65393-10-06 09:07 G 25605641.79 25605641.88 25605641.98 0.0137 0.0099

Uranus 65394-01-02 12:29 G 25605729.97 25605730.02 25605730.10 0.0137 0.0120

Jupiter 65394-03-28 19:12 G 25605815.25 25605815.30 25605815.36 0.0544 0.0488

Jupiter 65394-06-26 08:24 G 25605904.74 25605904.85 25605904.96 0.0543 0.0320

Earth 65395-06-12 07:27 G 25606255.69 25606255.81 25606255.92 0.2689 0.0345

Moon 65395-06-12 08:10 G 25606255.73 25606255.84 25606255.96 0.2691 0.0268 *

Saturn 65397-11-05 18:15 G 25607133.15 25607133.26 25607133.38 0.0276 0.0166

Earth 65397-12-11 02:24 G 25607168.53 25607168.60 25607168.68 0.2642 0.2183

Moon 65397-12-11 03:51 G 25607168.57 25607168.66 25607168.74 0.2640 0.2085 *

Saturn 65398-02-02 07:41 G 25607221.67 25607221.82 25607221.96 0.0277 0.0023

Saturn 65398-05-01 20:39 G 25607310.23 25607310.36 25607310.49 0.0277 0.0118

Saturn 65398-07-29 09:22 G 25607398.84 25607398.89 25607398.94 0.0277 0.0256

Jupiter 65400-05-10 08:39 G 25608048.71 25608048.86 25608049.00 0.0485 0.0229

Jupiter 65400-08-08 05:03 G 25608138.70 25608138.71 25608138.73 0.0486 0.0482

Mars 65401-06-16 02:39 G 25608450.51 25608450.61 25608450.70 0.1616 0.1134

Venus 65402-03-11 20:53 G 25608719.29 25608719.37 25608719.44 0.3685 0.2629

Jupiter 65406-04-15 10:48 G 25610214.82 25610214.95 25610215.09 0.0543 0.0123

Venus 65407-09-25 13:41 G 25610742.97 25610743.07 25610743.18 0.3684 0.0314

Mars 65408-01-19 01:27 G 25610858.53 25610858.56 25610858.60 0.1908 0.1816

Earth 65408-06-15 02:53 G 25611006.51 25611006.62 25611006.73 0.2688 0.0891

Moon 65408-06-15 03:36 G 25611006.54 25611006.65 25611006.76 0.2685 0.1012 *

Venus 65409-04-09 05:17 G 25611304.62 25611304.72 25611304.81 0.3686 0.2674

Mars 65410-11-06 11:17 G 25611880.84 25611880.97 25611881.10 0.1616 0.0369

Earth 65410-12-15 04:05 G 25611919.53 25611919.67 25611919.81 0.2643 0.0472

Moon 65410-12-15 05:03 G 25611919.57 25611919.71 25611919.85 0.2639 0.0301 *

Saturn 65412-02-24 15:51 G 25612356.10 25612356.16 25612356.22 0.0283 0.0260

Jupiter 65412-02-27 09:36 G 25612358.81 25612358.90 25612359.00 0.0484 0.0393

Saturn 65412-05-23 09:51 G 25612444.76 25612444.91 25612445.07 0.0282 0.0089

Jupiter 65412-05-27 05:46 G 25612448.61 25612448.74 25612448.87 0.0485 0.0308

Saturn 65412-08-20 04:19 G 25612533.52 25612533.68 25612533.84 0.0282 0.0085

Saturn 65412-11-16 23:03 G 25612622.40 25612622.46 25612622.52 0.0282 0.0263

Venus 65413-04-10 06:29 G 25612766.71 25612766.77 25612766.82 0.3683 0.3128

Venus 65414-10-24 07:27 G 25613328.74 25613328.81 25613328.88 0.3687 0.3198

Earth 65415-06-08 21:07 G 25613556.37 25613556.38 25613556.40 0.2691 0.2657

Mars 65417-06-10 03:51 G 25614288.53 25614288.66 25614288.80 0.1907 0.0301

Jupiter 65418-02-01 12:29 G 25614524.88 25614525.02 25614525.15 0.0544 0.0098

Mars 65420-03-28 19:41 G 25615311.19 25615311.32 25615311.46 0.1617 0.0414

Earth 65421-06-17 22:05 G 25615757.35 25615757.42 25615757.49 0.2687 0.2090

Moon 65421-06-17 22:19 G 25615757.36 25615757.43 25615757.51 0.2680 0.2050 *

Moon 65423-12-18 06:15 G 25616670.63 25616670.76 25616670.89 0.2638 0.1213

Earth 65423-12-18 06:15 G 25616670.64 25616670.76 25616670.89 0.2645 0.1327 *

Jupiter 65424-03-15 06:15 G 25616758.60 25616758.76 25616758.93 0.0485 0.0135

Mars 65426-10-31 06:43 G 25617718.68 25617718.78 25617718.89 0.1906 0.1173

Saturn 65427-03-26 21:22 G 25617865.29 25617865.39 25617865.49 0.0276 0.0194

Saturn 65427-06-23 10:34 G 25617953.80 25617953.94 25617954.08 0.0276 0.0051

Saturn 65427-09-19 23:31 G 25618042.35 25618042.48 25618042.62 0.0276 0.0090

Saturn 65427-12-17 12:29 G 25618130.94 25618131.02 25618131.10 0.0277 0.0228

Earth 65428-06-10 16:48 G 25618307.10 25618307.20 25618307.31 0.2690 0.1371

Moon 65428-06-10 17:17 G 25618307.12 25618307.22 25618307.33 0.2695 0.1272 *

Mars 65429-08-19 04:05 G 25618741.58 25618741.67 25618741.76 0.1618 0.1217

Jupiter 65429-11-20 14:53 G 25618835.00 25618835.12 25618835.23 0.0544 0.0296

Jupiter 65430-02-18 03:36 G 25618924.60 25618924.65 25618924.70 0.0543 0.0502

Uranus 65431-11-28 15:51 G 25619573.06 25619573.16 25619573.26 0.0142 0.0115

Uranus 65432-02-24 22:05 G 25619661.29 25619661.42 25619661.56 0.0141 0.0088

Uranus 65432-05-23 04:34 G 25619749.54 25619749.69 25619749.86 0.0141 0.0061

Uranus 65432-08-19 11:17 G 25619837.80 25619837.97 25619838.14 0.0141 0.0033

Uranus 65432-11-15 18:00 G 25619926.07 25619926.25 25619926.43 0.0141 0.0005

Uranus 65433-02-12 00:29 G 25620014.35 25620014.52 25620014.70 0.0141 0.0023

Uranus 65433-05-11 07:12 G 25620102.64 25620102.80 25620102.97 0.0141 0.0051

Uranus 65433-08-07 13:55 G 25620190.94 25620191.08 25620191.23 0.0141 0.0079

Neptune 65433-11-01 03:22 G 25620276.57 25620276.64 25620276.72 0.0088 0.0079

Uranus 65433-11-03 20:53 G 25620279.26 25620279.37 25620279.49 0.0141 0.0107

Neptune 65434-01-28 05:46 G 25620364.66 25620364.74 25620364.86 0.0088 0.0070

Uranus 65434-01-31 03:22 G 25620367.61 25620367.64 25620367.70 0.0141 0.0136

Neptune 65434-04-26 08:53 G 25620452.75 25620452.87 25620453.00 0.0088 0.0060

Neptune 65434-07-23 11:31 G 25620540.85 25620540.98 25620541.13 0.0088 0.0051

Neptune 65434-10-19 14:24 G 25620628.95 25620629.10 25620629.26 0.0088 0.0041

Neptune 65435-01-15 17:03 G 25620717.06 25620717.21 25620717.38 0.0088 0.0032

Neptune 65435-04-13 19:55 G 25620805.16 25620805.33 25620805.51 0.0088 0.0022

Neptune 65435-07-10 22:48 G 25620893.28 25620893.45 25620893.63 0.0088 0.0012

Neptune 65435-10-07 01:41 G 25620981.39 25620981.57 25620981.75 0.0088 0.0003

Jupiter 65436-01-02 06:43 G 25621068.61 25621068.78 25621068.94 0.0484 0.0047

Neptune 65436-01-03 04:34 G 25621069.51 25621069.69 25621069.86 0.0088 0.0007

Neptune 65436-03-31 07:12 G 25621157.63 25621157.80 25621157.98 0.0088 0.0017

Neptune 65436-06-27 10:05 G 25621245.76 25621245.92 25621246.09 0.0088 0.0027

Neptune 65436-09-23 12:43 G 25621333.88 25621334.03 25621334.21 0.0088 0.0037

Neptune 65436-12-20 15:36 G 25621422.01 25621422.15 25621422.32 0.0088 0.0047

Neptune 65437-03-18 18:43 G 25621510.15 25621510.28 25621510.42 0.0088 0.0057

Neptune 65437-06-14 21:36 G 25621598.29 25621598.40 25621598.52 0.0088 0.0066

Neptune 65437-09-11 00:29 G 25621686.44 25621686.52 25621686.61 0.0088 0.0076

Neptune 65437-12-08 03:22 G 25621774.62 25621774.64 25621774.68 0.0088 0.0087

Mars 65440-12-15 02:39 G 25622877.53 25622877.61 25622877.70 0.1616 0.1257

Earth 65441-06-13 12:29 G 25623057.90 25623058.02 25623058.14 0.2689 0.0107

Moon 65441-06-13 13:27 G 25623057.94 25623058.06 25623058.17 0.2691 0.0107 *

Jupiter 65441-09-08 17:31 G 25623145.17 25623145.23 25623145.29 0.0545 0.0489

Saturn 65441-10-10 09:07 G 25623176.74 25623176.88 25623177.02 0.0283 0.0146

Jupiter 65441-12-07 06:43 G 25623234.67 25623234.78 25623234.89 0.0544 0.0321

Saturn 65442-01-07 03:22 G 25623265.48 25623265.64 25623265.81 0.0282 0.0027

Saturn 65442-04-05 21:51 G 25623354.30 25623354.41 25623354.53 0.0282 0.0204

Earth 65443-12-13 08:24 G 25623970.75 25623970.85 25623970.95 0.2642 0.1866

Moon 65443-12-13 09:36 G 25623970.80 25623970.90 25623971.01 0.2640 0.1730 *

Jupiter 65447-10-21 07:27 G 25625378.66 25625378.81 25625378.96 0.0484 0.0215

Mars 65450-05-07 11:17 G 25626307.85 25626307.97 25626308.10 0.1616 0.0497

Jupiter 65453-09-25 09:36 G 25627544.77 25627544.90 25627545.04 0.0544 0.0134

Earth 65454-06-16 07:55 G 25627808.72 25627808.83 25627808.93 0.2688 0.1120

Moon 65454-06-16 08:24 G 25627808.75 25627808.85 25627808.96 0.2683 0.1167 *

Saturn 65456-08-12 21:22 G 25628597.33 25628597.39 25628597.45 0.0276 0.0251

Saturn 65456-11-09 10:48 G 25628685.82 25628685.95 25628686.09 0.0276 0.0107

Mars 65456-12-09 04:05 G 25628715.54 25628715.67 25628715.81 0.1907 0.0463

Earth 65456-12-15 10:05 G 25628721.78 25628721.92 25628722.06 0.2643 0.0142

Moon 65456-12-15 10:48 G 25628721.80 25628721.95 25628722.09 0.2638 0.0153 *

Saturn 65457-02-06 00:00 G 25628774.36 25628774.50 25628774.64 0.0277 0.0035

Saturn 65457-05-05 12:58 G 25628862.93 25628863.04 25628863.15 0.0277 0.0175

Venus 65458-10-16 18:43 G 25629392.18 25629392.28 25629392.37 0.3685 0.1530

Jupiter 65459-08-09 08:10 G 25629688.74 25629688.84 25629688.94 0.0484 0.0384

Mars 65459-09-27 19:55 G 25629738.20 25629738.33 25629738.46 0.1617 0.0286

Jupiter 65459-11-07 04:05 G 25629778.55 25629778.67 25629778.80 0.0485 0.0317

Moon 65461-06-09 02:10 G 25630358.54 25630358.59 25630358.65 0.2698 0.2357

Earth 65461-06-09 02:10 G 25630358.54 25630358.59 25630358.64 0.2691 0.2415 *

Venus 65464-05-01 11:31 G 25631415.88 25631415.98 25631416.08 0.3684 0.1375

Jupiter 65465-07-14 12:00 G 25631854.87 25631855.00 25631855.14 0.0544 0.0068

Venus 65465-11-14 05:17 G 25631977.59 25631977.72 25631977.86 0.3686 0.0664

Mars 65466-05-01 06:43 G 25632145.67 25632145.78 25632145.90 0.1906 0.1031

Earth 65467-06-19 03:07 G 25632559.57 25632559.63 25632559.68 0.2686 0.2310

Moon 65467-06-19 03:07 G 25632559.58 25632559.63 25632559.69 0.2680 0.2381 *

Mars 65469-02-17 04:19 G 25633168.58 25633168.68 25633168.78 0.1618 0.1082

Pluto 65469-11-11 23:31 G 25633436.42 25633436.48 25633436.56 0.0065 0.0057

Moon 65469-12-18 12:00 G 25633472.89 25633473.00 25633473.11 0.2638 0.1720

Earth 65469-12-18 12:15 G 25633472.90 25633473.01 25633473.12 0.2645 0.1652 *

Pluto 65470-02-08 00:00 G 25633524.41 25633524.50 25633524.62 0.0065 0.0047

Pluto 65470-05-07 00:43 G 25633612.42 25633612.53 25633612.67 0.0065 0.0037

Pluto 65470-08-03 01:41 G 25633700.44 25633700.57 25633700.71 0.0065 0.0025

Pluto 65470-10-30 02:24 G 25633788.46 25633788.60 25633788.74 0.0065 0.0015

Pluto 65471-01-26 03:07 G 25633876.48 25633876.63 25633876.78 0.0066 0.0004

Saturn 65471-02-27 08:53 G 25633908.75 25633908.87 25633908.98 0.0283 0.0201

Pluto 65471-04-24 03:36 G 25633964.51 25633964.65 25633964.80 0.0066 0.0007

Saturn 65471-05-27 02:53 G 25633997.46 25633997.62 25633997.79 0.0282 0.0029

Pluto 65471-07-21 04:19 G 25634052.54 25634052.68 25634052.83 0.0066 0.0018

Saturn 65471-08-23 21:22 G 25634086.25 25634086.39 25634086.53 0.0282 0.0146

Jupiter 65471-08-26 05:03 G 25634088.55 25634088.71 25634088.87 0.0485 0.0146

Pluto 65471-10-17 04:48 G 25634140.58 25634140.70 25634140.84 0.0066 0.0029

Pluto 65472-01-13 05:46 G 25634228.62 25634228.74 25634228.86 0.0066 0.0039

Pluto 65472-04-10 06:15 G 25634316.67 25634316.76 25634316.86 0.0066 0.0050

Pluto 65472-07-07 06:43 G 25634404.74 25634404.78 25634404.85 0.0066 0.0062

Earth 65474-06-11 22:05 G 25635109.31 25635109.42 25635109.52 0.2690 0.1131

Moon 65474-06-11 22:34 G 25635109.34 25635109.44 25635109.55 0.2694 0.1127 *

Uranus 65475-03-02 22:48 G 25635373.40 25635373.45 25635373.53 0.0137 0.0120

Uranus 65475-05-30 02:53 G 25635461.53 25635461.62 25635461.72 0.0137 0.0098

Uranus 65475-08-26 06:43 G 25635549.67 25635549.78 25635549.90 0.0137 0.0078

Uranus 65475-11-22 10:34 G 25635637.81 25635637.94 25635638.07 0.0137 0.0058

Uranus 65476-02-18 14:24 G 25635725.96 25635726.10 25635726.23 0.0137 0.0037

Uranus 65476-05-16 18:00 G 25635814.11 25635814.25 25635814.39 0.0137 0.0017

Uranus 65476-08-12 21:51 G 25635902.27 25635902.41 25635902.55 0.0137 0.0004

Uranus 65476-11-09 01:27 G 25635990.42 25635990.56 25635990.70 0.0137 0.0024

Uranus 65477-02-05 05:03 G 25636078.58 25636078.71 25636078.85 0.0137 0.0044

Jupiter 65477-05-02 13:12 G 25636164.94 25636165.05 25636165.17 0.0544 0.0292

Uranus 65477-05-04 08:39 G 25636166.75 25636166.86 25636166.99 0.0137 0.0064

Jupiter 65477-07-31 01:55 G 25636254.54 25636254.58 25636254.63 0.0543 0.0507

Uranus 65477-07-31 12:15 G 25636254.91 25636255.01 25636255.13 0.0137 0.0084

Uranus 65477-10-27 16:05 G 25636343.08 25636343.17 25636343.26 0.0137 0.0104

Uranus 65478-01-23 19:41 G 25636431.26 25636431.32 25636431.38 0.0137 0.0124

Mars 65480-06-15 02:53 G 25637304.56 25637304.62 25637304.69 0.1616 0.1384

Jupiter 65483-06-14 05:46 G 25638398.57 25638398.74 25638398.91 0.0485 0.0026

Saturn 65486-03-29 13:55 G 25639417.95 25639418.08 25639418.21 0.0276 0.0134

Saturn 65486-06-26 03:07 G 25639506.49 25639506.63 25639506.78 0.0276 0.0009

Saturn 65486-09-22 16:05 G 25639595.05 25639595.17 25639595.29 0.0277 0.0148

Earth 65487-06-14 17:31 G 25639860.11 25639860.23 25639860.35 0.2689 0.0126

Moon 65487-06-14 18:15 G 25639860.15 25639860.26 25639860.38 0.2690 0.0258 *

Jupiter 65489-02-18 15:36 G 25640475.09 25640475.15 25640475.20 0.0544 0.0496

Jupiter 65489-05-19 04:48 G 25640564.59 25640564.70 25640564.81 0.0543 0.0315

Mars 65489-11-05 11:31 G 25640734.86 25640734.98 25640735.11 0.1616 0.0625

Earth 65489-12-13 14:10 G 25640772.98 25640773.09 25640773.21 0.2642 0.1556

Moon 65489-12-13 15:36 G 25640773.03 25640773.15 25640773.26 0.2640 0.1427 *

Jupiter 65495-04-02 06:00 G 25642708.60 25642708.75 25642708.90 0.0484 0.0204

Mars 65496-06-09 04:19 G 25643142.55 25643142.68 25643142.81 0.1907 0.0618

Mars 65499-03-28 20:10 G 25644165.20 25644165.34 25644165.47 0.1617 0.0158

Earth 65500-06-17 12:58 G 25644610.94 25644611.04 25644611.14 0.2688 0.1347

Moon 65500-06-17 13:27 G 25644610.96 25644611.06 25644611.16 0.2682 0.1405 *

Saturn 65500-07-17 08:39 G 25644640.79 25644640.86 25644640.94 0.0283 0.0251

Saturn 65500-10-14 02:39 G 25644729.46 25644729.61 25644729.77 0.0282 0.0080

Saturn 65501-01-10 20:53 G 25644818.22 25644818.37 25644818.53 0.0282 0.0094

Jupiter 65501-03-08 07:55 G 25644874.69 25644874.83 25644874.96 0.0544 0.0131

Saturn 65501-04-09 15:36 G 25644907.11 25644907.15 25644907.20 0.0282 0.0271

Earth 65502-12-17 16:05 G 25645524.03 25645524.17 25645524.31 0.2644 0.0186

Moon 65502-12-17 16:19 G 25645524.04 25645524.18 25645524.33 0.2637 0.0262 *

Mars 65505-10-31 07:12 G 25646572.67 25646572.80 25646572.92 0.1906 0.0862

Jupiter 65507-01-20 06:58 G 25647018.69 25647018.79 25647018.90 0.0484 0.0371

Jupiter 65507-04-20 02:53 G 25647108.50 25647108.62 25647108.74 0.0485 0.0329

Earth 65507-06-11 07:27 G 25647160.74 25647160.81 25647160.87 0.2691 0.2172

Moon 65507-06-11 07:27 G 25647160.75 25647160.81 25647160.87 0.2698 0.2234 *

Mars 65508-08-19 04:34 G 25647595.58 25647595.69 25647595.80 0.1618 0.0953

Venus 65509-11-07 23:31 G 25648041.44 25648041.48 25648041.52 0.3685 0.3385

Jupiter 65512-12-25 10:34 G 25649184.81 25649184.94 25649185.08 0.0544 0.0063

Moon 65513-06-20 07:55 G 25649361.80 25649361.83 25649361.87 0.2680 0.2497

Earth 65513-06-20 07:55 G 25649361.80 25649361.83 25649361.87 0.2686 0.2533 *

Neptune 65514-09-01 17:17 G 25649800.21 25649800.22 25649800.24 0.0089 0.0089

Neptune 65514-11-28 18:43 G 25649888.23 25649888.28 25649888.36 0.0089 0.0081

Neptune 65515-02-24 20:39 G 25649976.28 25649976.36 25649976.45 0.0089 0.0072

Neptune 65515-05-23 22:19 G 25650064.34 25650064.43 25650064.54 0.0089 0.0063

Venus 65515-05-24 16:19 G 25650065.08 25650065.18 25650065.29 0.3684 0.0434

Saturn 65515-08-17 14:10 G 25650149.99 25650150.09 25650150.20 0.0276 0.0189

Neptune 65515-08-20 00:00 G 25650152.40 25650152.50 25650152.62 0.0089 0.0055

Uranus 65515-09-22 16:19 G 25650186.14 25650186.18 25650186.24 0.0142 0.0134

Saturn 65515-11-14 03:36 G 25650238.51 25650238.65 25650238.79 0.0276 0.0045

Neptune 65515-11-16 01:55 G 25650240.46 25650240.58 25650240.70 0.0089 0.0047

Uranus 65515-12-19 22:48 G 25650274.35 25650274.45 25650274.57 0.0142 0.0107

Moon 65515-12-20 18:00 G 25650275.15 25650275.25 25650275.35 0.2639 0.1878

Earth 65515-12-20 18:15 G 25650275.17 25650275.26 25650275.36 0.2645 0.1995 *

Saturn 65516-02-10 16:34 G 25650327.06 25650327.19 25650327.33 0.0277 0.0096

Neptune 65516-02-12 03:22 G 25650328.52 25650328.64 25650328.78 0.0089 0.0039

Uranus 65516-03-17 05:31 G 25650362.59 25650362.73 25650362.87 0.0141 0.0080

Saturn 65516-05-09 05:31 G 25650415.66 25650415.73 25650415.81 0.0277 0.0234

Neptune 65516-05-10 05:03 G 25650416.58 25650416.71 25650416.85 0.0089 0.0031

Uranus 65516-06-13 12:00 G 25650450.84 25650451.00 25650451.16 0.0141 0.0052

Neptune 65516-08-06 06:43 G 25650504.65 25650504.78 25650504.93 0.0089 0.0022

Uranus 65516-09-09 18:29 G 25650539.10 25650539.27 25650539.45 0.0141 0.0025

Neptune 65516-11-02 08:24 G 25650592.72 25650592.85 25650593.00 0.0089 0.0014

Uranus 65516-12-07 01:12 G 25650627.37 25650627.55 25650627.73 0.0141 0.0003

Neptune 65517-01-29 10:05 G 25650680.78 25650680.92 25650681.07 0.0089 0.0006

Uranus 65517-03-05 07:41 G 25650715.66 25650715.82 25650716.00 0.0141 0.0031

Neptune 65517-04-27 11:46 G 25650768.85 25650768.99 25650769.14 0.0089 0.0003

Uranus 65517-06-01 14:24 G 25650803.95 25650804.10 25650804.27 0.0141 0.0059

Neptune 65517-07-24 13:27 G 25650856.92 25650857.06 25650857.20 0.0089 0.0011

Uranus 65517-08-28 21:07 G 25650892.25 25650892.38 25650892.53 0.0141 0.0087

Neptune 65517-10-20 14:53 G 25650944.99 25650945.12 25650945.27 0.0089 0.0019

Uranus 65517-11-25 04:05 G 25650980.57 25650980.67 25650980.77 0.0141 0.0115

Neptune 65518-01-16 16:34 G 25651033.06 25651033.19 25651033.33 0.0089 0.0027

Neptune 65518-04-14 18:15 G 25651121.13 25651121.26 25651121.39 0.0089 0.0035

Neptune 65518-07-11 19:41 G 25651209.21 25651209.32 25651209.45 0.0089 0.0043

Neptune 65518-10-07 21:22 G 25651297.28 25651297.39 25651297.51 0.0089 0.0051

Neptune 65519-01-03 22:48 G 25651385.36 25651385.45 25651385.57 0.0089 0.0059

Jupiter 65519-02-06 03:22 G 25651418.48 25651418.64 25651418.80 0.0485 0.0152

Neptune 65519-04-02 00:29 G 25651473.44 25651473.52 25651473.62 0.0089 0.0067

Neptune 65519-06-29 01:55 G 25651561.52 25651561.58 25651561.67 0.0089 0.0075

Neptune 65519-09-25 03:51 G 25651649.61 25651649.66 25651649.71 0.0089 0.0083

Mars 65519-12-16 03:07 G 25651731.58 25651731.63 25651731.67 0.1616 0.1504

Earth 65520-06-13 03:07 G 25651911.52 25651911.63 25651911.74 0.2690 0.0890

Moon 65520-06-13 03:51 G 25651911.54 25651911.66 25651911.77 0.2694 0.0740 *

Venus 65520-12-07 09:07 G 25652088.80 25652088.88 25652088.96 0.3684 0.2442

Venus 65522-06-22 05:31 G 25652650.60 25652650.73 25652650.86 0.3686 0.1383

Jupiter 65524-10-13 12:58 G 25653494.92 25653495.04 25653495.16 0.0544 0.0263

Jupiter 65525-01-11 01:27 G 25653584.54 25653584.56 25653584.59 0.0543 0.0533

Mars 65529-05-07 11:46 G 25655161.87 25655161.99 25655162.11 0.1616 0.0747

Saturn 65530-03-03 02:10 G 25655461.45 25655461.59 25655461.73 0.0282 0.0137

Saturn 65530-05-30 20:24 G 25655550.18 25655550.35 25655550.51 0.0282 0.0036

Saturn 65530-08-27 14:53 G 25655639.01 25655639.12 25655639.23 0.0282 0.0212

Jupiter 65530-11-25 04:05 G 25655728.51 25655728.67 25655728.84 0.0485 0.0022

Earth 65533-06-15 22:34 G 25656662.33 25656662.44 25656662.56 0.2689 0.0361

Moon 65533-06-15 23:17 G 25656662.36 25656662.47 25656662.59 0.2688 0.0406 *

Mars 65535-12-10 04:34 G 25657569.57 25657569.69 25657569.82 0.1907 0.0787

Earth 65535-12-15 20:10 G 25657575.22 25657575.34 25657575.47 0.2642 0.1231

Moon 65535-12-15 21:22 G 25657575.26 25657575.39 25657575.52 0.2639 0.1157 *

Jupiter 65536-08-01 13:55 G 25657805.03 25657805.08 25657805.14 0.0544 0.0491

Jupiter 65536-10-30 03:07 G 25657894.53 25657894.63 25657894.74 0.0543 0.0319

Mars 65538-09-27 20:24 G 25658592.21 25658592.35 25658592.49 0.1617 0.0025

Jupiter 65542-09-13 05:03 G 25660038.56 25660038.71 25660038.86 0.0484 0.0187

Saturn 65545-01-03 17:31 G 25660882.14 25660882.23 25660882.32 0.0276 0.0215

Saturn 65545-04-02 06:43 G 25660970.64 25660970.78 25660970.92 0.0277 0.0071

Mars 65545-05-01 07:27 G 25660999.68 25660999.81 25660999.93 0.1906 0.0690

Saturn 65545-06-29 19:55 G 25661059.19 25661059.33 25661059.47 0.0277 0.0070

Saturn 65545-09-26 08:53 G 25661147.78 25661147.87 25661147.96 0.0277 0.0209

Earth 65546-06-18 17:46 G 25661413.15 25661413.24 25661413.34 0.2687 0.1575

Moon 65546-06-18 18:29 G 25661413.18 25661413.27 25661413.36 0.2682 0.1643 *

Mars 65548-02-18 04:48 G 25662022.58 25662022.70 25662022.81 0.1618 0.0820

Jupiter 65548-08-18 05:46 G 25662204.61 25662204.74 25662204.87 0.0544 0.0122

Earth 65548-12-17 22:05 G 25662326.28 25662326.42 25662326.56 0.2644 0.0514

Moon 65548-12-17 22:19 G 25662326.29 25662326.43 25662326.57 0.2637 0.0535 *

Earth 65553-06-11 12:29 G 25663962.94 25663963.02 25663963.10 0.2691 0.1926

Moon 65553-06-11 12:43 G 25663962.95 25663963.03 25663963.11 0.2697 0.1849 *

Jupiter 65554-07-02 05:31 G 25664348.62 25664348.73 25664348.84 0.0484 0.0363

Jupiter 65554-09-30 01:27 G 25664438.44 25664438.56 25664438.68 0.0485 0.0337

Pluto 65558-02-08 22:05 G 25665666.34 25665666.42 25665666.52 0.0078 0.0065

Pluto 65558-05-08 00:00 G 25665754.37 25665754.50 25665754.65 0.0078 0.0044

Pluto 65558-08-04 02:10 G 25665842.43 25665842.59 25665842.75 0.0078 0.0022

Pluto 65558-10-31 04:05 G 25665930.50 25665930.67 25665930.84 0.0078 0.0002

Uranus 65558-12-26 02:24 G 25665986.57 25665986.60 25665986.62 0.0136 0.0134

Pluto 65559-01-27 05:46 G 25666018.58 25666018.74 25666018.91 0.0078 0.0020

Uranus 65559-03-24 06:00 G 25666074.68 25666074.75 25666074.84 0.0137 0.0114

Pluto 65559-04-25 07:27 G 25666106.68 25666106.81 25666106.97 0.0078 0.0041

Uranus 65559-06-20 09:51 G 25666162.82 25666162.91 25666163.02 0.0137 0.0093

Saturn 65559-07-21 02:39 G 25666193.49 25666193.61 25666193.74 0.0283 0.0182

Pluto 65559-07-22 09:51 G 25666194.80 25666194.91 25666195.01 0.0078 0.0061

Uranus 65559-09-16 13:41 G 25666250.96 25666251.07 25666251.20 0.0137 0.0073

Saturn 65559-10-17 20:53 G 25666282.20 25666282.37 25666282.53 0.0282 0.0012

Uranus 65559-12-13 17:31 G 25666339.10 25666339.23 25666339.37 0.0137 0.0052

Saturn 65560-01-14 15:07 G 25666371.00 25666371.13 25666371.27 0.0282 0.0165

Uranus 65560-03-10 21:22 G 25666427.25 25666427.39 25666427.53 0.0137 0.0032

Jupiter 65560-06-06 08:39 G 25666514.72 25666514.86 25666515.00 0.0544 0.0068

Uranus 65560-06-07 01:12 G 25666515.41 25666515.55 25666515.69 0.0137 0.0011

Uranus 65560-09-03 04:48 G 25666603.56 25666603.70 25666603.84 0.0137 0.0010

Uranus 65560-11-30 08:39 G 25666691.72 25666691.86 25666692.00 0.0137 0.0029

Uranus 65561-02-26 12:15 G 25666779.88 25666780.01 25666780.14 0.0137 0.0049

Uranus 65561-05-25 15:51 G 25666868.05 25666868.16 25666868.29 0.0137 0.0070

Uranus 65561-08-21 19:27 G 25666956.21 25666956.31 25666956.42 0.0137 0.0090

Uranus 65561-11-17 23:03 G 25667044.39 25667044.46 25667044.55 0.0137 0.0110

Moon 65561-12-20 23:31 G 25667077.41 25667077.48 25667077.55 0.2640 0.2303

Earth 65561-12-21 00:15 G 25667077.45 25667077.51 25667077.58 0.2645 0.2331 *

Uranus 65562-02-14 02:39 G 25667132.58 25667132.61 25667132.66 0.0137 0.0129

Earth 65566-06-14 08:10 G 25668713.72 25668713.84 25668713.95 0.2690 0.0651

Moon 65566-06-14 08:53 G 25668713.76 25668713.87 25668713.98 0.2694 0.0650 *

Venus 65566-06-14 21:07 G 25668714.30 25668714.38 25668714.47 0.3685 0.2264

Jupiter 65566-07-19 01:55 G 25668748.42 25668748.58 25668748.74 0.0485 0.0161

Mars 65568-11-05 12:00 G 25669588.89 25669589.00 25669589.11 0.1616 0.0872

Earth 65568-12-13 00:43 G 25669626.50 25669626.53 25669626.55 0.2641 0.2602

Moon 65568-12-13 01:55 G 25669626.55 25669626.58 25669626.61 0.2641 0.2567 *

Venus 65571-12-29 14:10 G 25670737.98 25670738.09 25670738.20 0.3684 0.0667

Jupiter 65572-03-25 11:17 G 25670824.85 25670824.97 25670825.09 0.0544 0.0261

Jupiter 65572-06-23 00:00 G 25670914.49 25670914.50 25670914.52 0.0543 0.0537

Venus 65573-07-13 03:36 G 25671299.55 25671299.65 25671299.75 0.3686 0.2380

Saturn 65574-05-23 17:46 G 25671614.21 25671614.24 25671614.28 0.0276 0.0268

Saturn 65574-08-20 07:12 G 25671702.68 25671702.80 25671702.94 0.0276 0.0124

Saturn 65574-11-16 20:39 G 25671791.21 25671791.36 25671791.50 0.0277 0.0019

Saturn 65575-02-13 09:36 G 25671879.78 25671879.90 25671880.02 0.0277 0.0158

Mars 65575-06-10 04:48 G 25671996.58 25671996.70 25671996.82 0.1907 0.0944

Venus 65577-07-14 06:58 G 25672761.76 25672761.79 25672761.82 0.3683 0.3509

Mars 65578-03-28 20:39 G 25673019.22 25673019.36 25673019.49 0.1617 0.0105

Jupiter 65578-05-07 02:24 G 25673058.43 25673058.60 25673058.77 0.0485 0.0015

Venus 65579-01-27 05:46 G 25673323.69 25673323.74 25673323.78 0.3687 0.3448

Earth 65579-06-17 03:36 G 25673464.54 25673464.65 25673464.77 0.2689 0.0590

Moon 65579-06-17 04:19 G 25673464.57 25673464.68 25673464.80 0.2686 0.0745 *

Earth 65581-12-16 02:10 G 25674377.45 25674377.59 25674377.72 0.2643 0.0922

Moon 65581-12-16 02:53 G 25674377.48 25674377.62 25674377.76 0.2638 0.0763 *

Jupiter 65584-01-12 13:27 G 25675134.99 25675135.06 25675135.13 0.0544 0.0466

Jupiter 65584-04-11 02:39 G 25675224.51 25675224.61 25675224.72 0.0543 0.0344

Mars 65584-10-30 07:12 G 25675426.67 25675426.80 25675426.93 0.1906 0.0557

Mars 65587-08-19 04:48 G 25676449.58 25676449.70 25676449.83 0.1618 0.0690

Saturn 65588-12-07 02:10 G 25676925.51 25676925.59 25676925.68 0.0282 0.0238

Saturn 65589-03-05 20:10 G 25677014.18 25677014.34 25677014.50 0.0282 0.0067

Saturn 65589-06-02 14:24 G 25677102.95 25677103.10 25677103.26 0.0282 0.0107

Jupiter 65590-02-23 03:22 G 25677368.49 25677368.64 25677368.79 0.0484 0.0181

Earth 65592-06-18 22:48 G 25678215.37 25678215.45 25678215.54 0.2687 0.1801

Moon 65592-06-18 23:17 G 25678215.39 25678215.47 25678215.56 0.2682 0.1815 *

Earth 65594-12-19 04:05 G 25679128.53 25679128.67 25679128.80 0.2644 0.0848

Moon 65594-12-19 04:19 G 25679128.54 25679128.68 25679128.82 0.2637 0.0856 *

Jupiter 65596-01-29 04:19 G 25679534.54 25679534.68 25679534.81 0.0543 0.0126

Mars 65597-01-08 13:12 G 25679880.00 25679880.05 25679880.10 0.1619 0.1493

Neptune 65598-05-02 23:17 G 25680359.44 25680359.47 25680359.55 0.0088 0.0083

Neptune 65598-07-30 02:24 G 25680447.51 25680447.60 25680447.70 0.0088 0.0073

Neptune 65598-10-26 04:48 G 25680535.60 25680535.70 25680535.84 0.0088 0.0064

Neptune 65599-01-22 07:55 G 25680623.70 25680623.83 25680623.97 0.0088 0.0054

Neptune 65599-04-20 10:34 G 25680711.80 25680711.94 25680712.10 0.0088 0.0045

Earth 65599-06-12 17:31 G 25680765.14 25680765.23 25680765.32 0.2691 0.1684

Moon 65599-06-12 18:00 G 25680765.16 25680765.25 25680765.34 0.2697 0.1677 *

Neptune 65599-07-17 13:27 G 25680799.90 25680800.06 25680800.22 0.0088 0.0035

Uranus 65599-10-12 23:46 G 25680887.42 25680887.49 25680887.57 0.0142 0.0126

Neptune 65599-10-13 16:05 G 25680888.01 25680888.17 25680888.34 0.0088 0.0026

Uranus 65600-01-09 06:15 G 25680975.64 25680975.76 25680975.88 0.0141 0.0099

Neptune 65600-01-09 18:58 G 25680976.12 25680976.29 25680976.47 0.0088 0.0016

Uranus 65600-04-06 12:43 G 25681063.88 25681064.03 25681064.18 0.0141 0.0072

Neptune 65600-04-06 21:51 G 25681064.23 25681064.41 25681064.58 0.0088 0.0007

Uranus 65600-07-03 19:12 G 25681152.14 25681152.30 25681152.47 0.0141 0.0044

Neptune 65600-07-04 00:29 G 25681152.35 25681152.52 25681152.70 0.0088 0.0004 *

Uranus 65600-09-30 01:55 G 25681240.40 25681240.58 25681240.75 0.0141 0.0017

Neptune 65600-09-30 03:22 G 25681240.47 25681240.64 25681240.82 0.0088 0.0013 *

Neptune 65600-12-27 06:00 G 25681328.59 25681328.75 25681328.93 0.0088 0.0023

Uranus 65600-12-27 08:24 G 25681328.68 25681328.85 25681329.03 0.0141 0.0012 *

Neptune 65601-03-25 09:07 G 25681416.71 25681416.88 25681417.04 0.0088 0.0033

Uranus 65601-03-25 15:07 G 25681416.96 25681417.13 25681417.30 0.0141 0.0039 *

Neptune 65601-06-21 12:00 G 25681504.84 25681505.00 25681505.15 0.0088 0.0042

Uranus 65601-06-21 21:51 G 25681505.26 25681505.41 25681505.57 0.0141 0.0067

Neptune 65601-09-17 14:39 G 25681592.97 25681593.11 25681593.26 0.0088 0.0052

Uranus 65601-09-18 04:19 G 25681593.56 25681593.68 25681593.82 0.0141 0.0096

Jupiter 65601-12-12 04:19 G 25681678.57 25681678.68 25681678.79 0.0484 0.0349

Neptune 65601-12-14 17:31 G 25681681.11 25681681.23 25681681.36 0.0088 0.0062

Uranus 65601-12-15 11:03 G 25681681.89 25681681.96 25681682.06 0.0141 0.0124

Jupiter 65602-03-12 00:15 G 25681768.39 25681768.51 25681768.62 0.0485 0.0353

Neptune 65602-03-12 20:24 G 25681769.26 25681769.35 25681769.46 0.0088 0.0072

Neptune 65602-06-08 23:17 G 25681857.42 25681857.47 25681857.54 0.0088 0.0082

Saturn 65604-01-07 10:34 G 25682434.81 25682434.94 25682435.06 0.0277 0.0150

Saturn 65604-04-04 23:46 G 25682523.35 25682523.49 25682523.64 0.0277 0.0007

Saturn 65604-07-02 12:43 G 25682611.91 25682612.03 25682612.16 0.0277 0.0134

Saturn 65604-09-29 01:41 G 25682700.55 25682700.57 25682700.60 0.0277 0.0272

Jupiter 65607-11-17 06:29 G 25683844.63 25683844.77 25683844.91 0.0544 0.0077

Moon 65607-12-22 05:31 G 25683879.70 25683879.73 25683879.76 0.2640 0.2558

Mars 65608-05-06 12:15 G 25684015.91 25684016.01 25684016.11 0.1616 0.0999

Earth 65612-06-14 13:12 G 25685515.94 25685516.05 25685516.17 0.2690 0.0416

Moon 65612-06-14 13:55 G 25685515.97 25685516.08 25685516.20 0.2692 0.0271 *

Jupiter 65613-12-29 00:00 G 25686078.35 25686078.50 25686078.66 0.0485 0.0167

Mars 65614-12-09 05:03 G 25686423.60 25686423.71 25686423.82 0.1907 0.1107

Earth 65614-12-14 06:29 G 25686428.70 25686428.77 25686428.84 0.2641 0.2292

Moon 65614-12-14 07:41 G 25686428.74 25686428.82 25686428.91 0.2641 0.2075 *

Mars 65617-09-26 20:39 G 25687446.23 25687446.36 25687446.50 0.1617 0.0232

Saturn 65618-04-26 03:36 G 25687657.62 25687657.65 25687657.68 0.0283 0.0275

Saturn 65618-07-23 21:22 G 25687746.24 25687746.39 25687746.54 0.0282 0.0106

Saturn 65618-10-20 15:36 G 25687834.99 25687835.15 25687835.31 0.0282 0.0067

Saturn 65619-01-17 10:05 G 25687923.84 25687923.92 25687924.00 0.0282 0.0242

Jupiter 65619-09-05 09:07 G 25688154.76 25688154.88 25688155.00 0.0544 0.0272

Jupiter 65619-12-03 21:51 G 25688244.39 25688244.41 25688244.44 0.0543 0.0528

Venus 65623-01-19 18:58 G 25689387.19 25689387.29 25689387.40 0.3685 0.1151

Mars 65624-04-30 07:41 G 25689853.69 25689853.82 25689853.95 0.1906 0.0377

Earth 65625-06-17 08:39 G 25690266.75 25690266.86 25690266.97 0.2688 0.0822

Moon 65625-06-17 09:22 G 25690266.78 25690266.89 25690267.00 0.2685 0.0833 *

Jupiter 65625-10-17 00:43 G 25690388.36 25690388.53 25690388.70 0.0484 0.0007

Mars 65627-02-17 05:03 G 25690876.59 25690876.71 25690876.84 0.1618 0.0560

Earth 65627-12-17 07:55 G 25691179.69 25691179.83 25691179.97 0.2643 0.0595

Moon 65627-12-17 08:53 G 25691179.73 25691179.87 25691180.01 0.2637 0.0607 *

Venus 65628-08-04 12:00 G 25691410.90 25691411.00 25691411.09 0.3684 0.1753

Venus 65630-02-17 03:51 G 25691972.52 25691972.66 25691972.79 0.3686 0.0395

Jupiter 65631-06-24 11:46 G 25692464.92 25692464.99 25692465.06 0.0544 0.0468

Jupiter 65631-09-22 00:58 G 25692554.44 25692554.54 25692554.65 0.0543 0.0343

Saturn 65633-05-26 11:03 G 25693166.87 25693166.96 25693167.07 0.0276 0.0201

Saturn 65633-08-23 00:43 G 25693255.38 25693255.53 25693255.67 0.0276 0.0057

Mars 65633-09-20 10:34 G 25693283.91 25693283.94 25693283.98 0.1904 0.1818

Saturn 65633-11-19 13:41 G 25693343.94 25693344.07 25693344.21 0.0277 0.0085

Saturn 65634-02-16 02:39 G 25693432.53 25693432.61 25693432.70 0.0277 0.0223

Mars 65636-07-09 13:12 G 25694306.98 25694307.05 25694307.13 0.1619 0.1365

Jupiter 65637-08-05 01:12 G 25694698.40 25694698.55 25694698.71 0.0484 0.0181

Earth 65638-06-20 03:51 G 25695017.59 25695017.66 25695017.74 0.2687 0.2022

Moon 65638-06-20 04:05 G 25695017.60 25695017.67 25695017.74 0.2681 0.2097 *

Moon 65640-12-19 10:05 G 25695930.79 25695930.92 25695931.05 0.2638 0.1215

Earth 65640-12-19 10:05 G 25695930.79 25695930.92 25695931.04 0.2644 0.1178 *

Uranus 65643-01-15 09:07 G 25696687.84 25696687.88 25696687.93 0.0136 0.0129

Uranus 65643-04-13 12:58 G 25696775.96 25696776.04 25696776.13 0.0136 0.0108

Uranus 65643-07-10 16:48 G 25696864.10 25696864.20 25696864.32 0.0137 0.0088

Jupiter 65643-07-11 03:36 G 25696864.52 25696864.65 25696864.78 0.0544 0.0147

Uranus 65643-10-06 20:53 G 25696952.24 25696952.37 25696952.49 0.0137 0.0067

Uranus 65644-01-03 00:29 G 25697040.39 25697040.52 25697040.66 0.0137 0.0047

Uranus 65644-03-31 04:19 G 25697128.54 25697128.68 25697128.82 0.0137 0.0026

Uranus 65644-06-27 08:10 G 25697216.70 25697216.84 25697216.98 0.0137 0.0006

Uranus 65644-09-23 11:46 G 25697304.85 25697304.99 25697305.13 0.0137 0.0015

Uranus 65644-12-20 15:36 G 25697393.01 25697393.15 25697393.28 0.0137 0.0034

Uranus 65645-03-18 19:12 G 25697481.17 25697481.30 25697481.43 0.0137 0.0055

Earth 65645-06-12 22:34 G 25697567.35 25697567.44 25697567.54 0.2690 0.1445

Moon 65645-06-12 23:03 G 25697567.36 25697567.46 25697567.56 0.2697 0.1372 *

Uranus 65645-06-14 22:48 G 25697569.34 25697569.45 25697569.57 0.0137 0.0075

Uranus 65645-09-11 02:24 G 25697657.51 25697657.60 25697657.71 0.0137 0.0095

Uranus 65645-12-08 06:00 G 25697745.69 25697745.75 25697745.84 0.0137 0.0115

Uranus 65646-03-06 09:36 G 25697833.88 25697833.90 25697833.94 0.0137 0.0134

Mars 65647-11-05 12:29 G 25698442.92 25698443.02 25698443.11 0.1616 0.1123

Saturn 65647-12-10 20:39 G 25698478.23 25698478.36 25698478.50 0.0282 0.0164

Saturn 65648-03-08 14:39 G 25698566.95 25698567.11 25698567.28 0.0282 0.0011

Saturn 65648-06-05 09:07 G 25698655.76 25698655.88 25698656.01 0.0282 0.0183

Jupiter 65649-05-24 02:24 G 25699008.49 25699008.60 25699008.72 0.0484 0.0345

Jupiter 65649-08-21 22:19 G 25699098.32 25699098.43 25699098.54 0.0485 0.0356

Mars 65654-06-09 05:17 G 25700850.62 25700850.72 25700850.82 0.1907 0.1272

Jupiter 65655-04-29 04:48 G 25701174.57 25701174.70 25701174.84 0.0544 0.0076

Mars 65657-03-27 21:07 G 25701873.24 25701873.38 25701873.51 0.1617 0.0363

Earth 65658-06-15 18:15 G 25702318.15 25702318.26 25702318.38 0.2689 0.0184

Moon 65658-06-15 19:12 G 25702318.18 25702318.30 25702318.41 0.2690 0.0166 *

Earth 65660-12-14 12:15 G 25703230.92 25703231.01 25703231.10 0.2642 0.1985

Moon 65660-12-14 13:27 G 25703230.97 25703231.06 25703231.16 0.2640 0.1950 *

Jupiter 65661-06-09 22:48 G 25703408.29 25703408.45 25703408.61 0.0485 0.0179

Saturn 65662-10-13 14:24 G 25703899.02 25703899.10 25703899.18 0.0277 0.0226

Saturn 65663-01-10 03:51 G 25703987.52 25703987.66 25703987.80 0.0277 0.0082

Saturn 65663-04-08 17:03 G 25704076.07 25704076.21 25704076.35 0.0277 0.0060

Saturn 65663-07-06 06:00 G 25704164.66 25704164.75 25704164.85 0.0277 0.0200

Mars 65663-10-30 07:55 G 25704280.69 25704280.83 25704280.96 0.1906 0.0218

Mars 65666-08-18 05:17 G 25705303.59 25705303.72 25705303.85 0.1618 0.0431

Jupiter 65667-02-15 06:58 G 25705484.67 25705484.79 25705484.91 0.0544 0.0281

Jupiter 65667-05-15 19:41 G 25705574.29 25705574.32 25705574.36 0.0543 0.0518

Earth 65671-06-18 13:41 G 25707068.96 25707069.07 25707069.18 0.2688 0.1050

Moon 65671-06-18 14:24 G 25707069.00 25707069.10 25707069.21 0.2685 0.1202 *

Mars 65673-03-21 10:48 G 25707710.89 25707710.95 25707711.02 0.1904 0.1654

Jupiter 65673-03-28 22:48 G 25707718.28 25707718.45 25707718.62 0.0484 0.0006

Earth 65673-12-17 13:55 G 25707981.94 25707982.08 25707982.22 0.2643 0.0272

Moon 65673-12-17 14:39 G 25707981.97 25707982.11 25707982.25 0.2637 0.0106 *

Venus 65674-02-09 23:46 G 25708036.43 25708036.49 25708036.55 0.3686 0.3010

Mars 65676-01-08 13:27 G 25708733.98 25708734.06 25708734.15 0.1619 0.1232

Saturn 65677-04-28 22:34 G 25709210.33 25709210.44 25709210.56 0.0282 0.0196

Saturn 65677-07-26 16:34 G 25709299.03 25709299.19 25709299.36 0.0282 0.0025

Saturn 65677-10-23 10:48 G 25709387.81 25709387.95 25709388.10 0.0282 0.0149

Moon 65678-06-11 07:55 G 25709618.79 25709618.83 25709618.87 0.2698 0.2538

Earth 65678-06-11 07:55 G 25709618.79 25709618.83 25709618.87 0.2691 0.2494 *

Jupiter 65678-12-04 09:22 G 25709794.83 25709794.89 25709794.95 0.0545 0.0482

Jupiter 65679-03-03 22:48 G 25709884.34 25709884.45 25709884.55 0.0544 0.0331

Neptune 65679-05-29 16:48 G 25709971.16 25709971.20 25709971.25 0.0089 0.0084

Neptune 65679-08-25 18:29 G 25710059.20 25710059.27 25710059.35 0.0089 0.0075

Venus 65679-08-26 16:48 G 25710060.09 25710060.20 25710060.31 0.3685 0.0051

Neptune 65679-11-21 19:55 G 25710147.25 25710147.33 25710147.44 0.0089 0.0068

Neptune 65680-02-17 22:05 G 25710235.31 25710235.42 25710235.53 0.0089 0.0059

Neptune 65680-05-15 23:31 G 25710323.37 25710323.48 25710323.61 0.0089 0.0051

Neptune 65680-08-12 01:12 G 25710411.43 25710411.55 25710411.69 0.0089 0.0042

Neptune 65680-11-08 03:07 G 25710499.50 25710499.63 25710499.76 0.0089 0.0034

Neptune 65681-02-04 04:48 G 25710587.56 25710587.70 25710587.84 0.0089 0.0025

Neptune 65681-05-03 06:29 G 25710675.63 25710675.77 25710675.91 0.0089 0.0017

Neptune 65681-07-30 08:10 G 25710763.70 25710763.84 25710763.98 0.0089 0.0009

Neptune 65681-10-26 09:51 G 25710851.77 25710851.91 25710852.05 0.0089 0.0002

Neptune 65682-01-22 11:31 G 25710939.83 25710939.98 25710940.12 0.0089 0.0008

Neptune 65682-04-20 12:58 G 25711027.90 25711028.04 25711028.18 0.0089 0.0016

Neptune 65682-07-17 14:39 G 25711115.98 25711116.11 25711116.25 0.0089 0.0024

Neptune 65682-10-13 16:19 G 25711204.05 25711204.18 25711204.31 0.0089 0.0032

Neptune 65683-01-09 18:00 G 25711292.12 25711292.25 25711292.37 0.0089 0.0040

Neptune 65683-04-07 19:12 G 25711380.19 25711380.30 25711380.43 0.0089 0.0048

Neptune 65683-07-04 21:07 G 25711468.27 25711468.38 25711468.49 0.0089 0.0056

Neptune 65683-09-30 22:48 G 25711556.35 25711556.45 25711556.54 0.0089 0.0064

Uranus 65683-11-02 06:58 G 25711588.70 25711588.79 25711588.89 0.0142 0.0117

Neptune 65683-12-28 00:15 G 25711644.43 25711644.51 25711644.59 0.0089 0.0072

Uranus 65684-01-29 13:27 G 25711676.94 25711677.06 25711677.20 0.0141 0.0090

Neptune 65684-03-25 01:41 G 25711732.52 25711732.57 25711732.64 0.0089 0.0080

Uranus 65684-04-26 20:10 G 25711765.18 25711765.34 25711765.50 0.0141 0.0063

Earth 65684-06-20 08:53 G 25711819.81 25711819.87 25711819.93 0.2687 0.2250

Moon 65684-06-20 09:07 G 25711819.81 25711819.88 25711819.94 0.2680 0.2189 *

Neptune 65684-06-21 03:22 G 25711820.62 25711820.64 25711820.67 0.0089 0.0087

Uranus 65684-07-24 02:39 G 25711853.44 25711853.61 25711853.78 0.0141 0.0035

Uranus 65684-10-20 09:22 G 25711941.71 25711941.89 25711942.06 0.0141 0.0008

Jupiter 65685-01-14 23:31 G 25712028.33 25712028.48 25712028.64 0.0484 0.0176

Uranus 65685-01-16 15:51 G 25712029.99 25712030.16 25712030.34 0.0141 0.0020

Venus 65685-03-11 09:36 G 25712083.83 25712083.90 25712083.97 0.3684 0.2814

Uranus 65685-04-14 22:34 G 25712118.27 25712118.44 25712118.61 0.0141 0.0048

Uranus 65685-07-12 05:17 G 25712206.57 25712206.72 25712206.87 0.0141 0.0076

Uranus 65685-10-08 11:46 G 25712294.88 25712294.99 25712295.12 0.0141 0.0105

Uranus 65686-01-04 18:29 G 25712383.23 25712383.27 25712383.34 0.0141 0.0133

Venus 65686-09-24 03:51 G 25712645.53 25712645.66 25712645.78 0.3687 0.1614

Moon 65686-12-20 15:36 G 25712733.03 25712733.15 25712733.28 0.2638 0.1407

Earth 65686-12-20 16:05 G 25712733.05 25712733.17 25712733.28 0.2644 0.1514 *

Mars 65687-05-06 12:29 G 25712869.94 25712870.02 25712870.11 0.1616 0.1245

Jupiter 65690-12-21 01:41 G 25714194.44 25714194.57 25714194.70 0.0544 0.0143

Earth 65691-06-14 03:51 G 25714369.55 25714369.66 25714369.76 0.2690 0.1204

Moon 65691-06-14 04:19 G 25714369.57 25714369.68 25714369.78 0.2696 0.1155 *

Saturn 65692-03-01 15:07 G 25714631.13 25714631.13 25714631.15 0.0276 0.0275

Saturn 65692-05-29 04:48 G 25714719.57 25714719.70 25714719.83 0.0276 0.0130

Saturn 65692-08-25 18:15 G 25714808.11 25714808.26 25714808.40 0.0277 0.0014

Saturn 65692-11-22 07:12 G 25714896.68 25714896.80 25714896.92 0.0277 0.0152

Mars 65693-12-08 05:17 G 25715277.63 25715277.72 25715277.81 0.1907 0.1429

Mars 65696-09-25 21:07 G 25716300.25 25716300.38 25716300.51 0.1617 0.0481

Jupiter 65696-11-03 00:15 G 25716338.40 25716338.51 25716338.63 0.0484 0.0347

Jupiter 65697-01-31 19:55 G 25716428.22 25716428.33 25716428.45 0.0485 0.0354

Jupiter 65702-10-10 04:05 G 25718504.53 25718504.67 25718504.81 0.0544 0.0056

Mars 65703-05-01 07:55 G 25718707.69 25718707.83 25718707.97 0.1906 0.0074

Earth 65704-06-16 23:17 G 25719120.36 25719120.47 25719120.59 0.2689 0.0085

Moon 65704-06-17 00:15 G 25719120.39 25719120.51 25719120.63 0.2689 0.0185 *

Mars 65706-02-17 05:31 G 25719730.60 25719730.73 25719730.87 0.1618 0.0299

Saturn 65706-09-16 21:51 G 25719942.35 25719942.41 25719942.49 0.0282 0.0253

Saturn 65706-12-14 15:51 G 25720031.00 25720031.16 25720031.32 0.0282 0.0084

Earth 65706-12-16 18:15 G 25720033.15 25720033.26 25720033.37 0.2642 0.1671

Moon 65706-12-16 19:12 G 25720033.19 25720033.30 25720033.42 0.2638 0.1500 *

Saturn 65707-03-13 10:05 G 25720119.76 25720119.92 25720120.08 0.0282 0.0089

Saturn 65707-06-10 04:34 G 25720208.64 25720208.69 25720208.75 0.0282 0.0265

Jupiter 65708-11-20 20:53 G 25720738.21 25720738.37 25720738.52 0.0485 0.0181

Mars 65712-09-20 11:03 G 25722137.88 25722137.96 25722138.05 0.1905 0.1489

Jupiter 65714-07-29 05:31 G 25722814.61 25722814.73 25722814.85 0.0544 0.0279

Jupiter 65714-10-26 18:15 G 25722904.22 25722904.26 25722904.30 0.0543 0.0520

Mars 65715-07-10 13:41 G 25723160.98 25723161.07 25723161.18 0.1619 0.1098

Earth 65717-06-19 18:43 G 25723871.18 25723871.28 25723871.38 0.2688 0.1281

Moon 65717-06-19 19:27 G 25723871.20 25723871.31 25723871.41 0.2684 0.1286 *

Pluto 65718-03-08 06:00 G 25724132.70 25724132.75 25724132.81 0.0065 0.0060

Pluto 65718-06-04 06:29 G 25724220.69 25724220.77 25724220.88 0.0065 0.0050

Pluto 65718-08-31 07:12 G 25724308.69 25724308.80 25724308.93 0.0065 0.0039

Pluto 65718-11-27 08:10 G 25724396.71 25724396.84 25724396.97 0.0065 0.0029

Pluto 65719-02-23 08:39 G 25724484.72 25724484.86 25724485.01 0.0065 0.0018

Pluto 65719-05-22 09:22 G 25724572.75 25724572.89 25724573.04 0.0065 0.0007

Pluto 65719-08-18 10:05 G 25724660.77 25724660.92 25724661.07 0.0066 0.0004

Pluto 65719-11-14 10:34 G 25724748.81 25724748.94 25724749.09 0.0066 0.0015

Earth 65719-12-19 19:55 G 25724784.18 25724784.33 25724784.47 0.2643 0.0069

Moon 65719-12-19 20:24 G 25724784.21 25724784.35 25724784.50 0.2637 0.0083 *

Pluto 65720-02-10 11:31 G 25724836.84 25724836.98 25724837.12 0.0066 0.0025

Pluto 65720-05-08 12:00 G 25724924.89 25724925.00 25724925.13 0.0066 0.0036

Pluto 65720-08-04 12:29 G 25725012.93 25725013.02 25725013.14 0.0066 0.0047

Jupiter 65720-09-08 21:22 G 25725048.22 25725048.39 25725048.56 0.0485 0.0005

Pluto 65720-10-31 13:12 G 25725101.00 25725101.05 25725101.13 0.0066 0.0058

Saturn 65721-10-17 07:41 G 25725451.71 25725451.82 25725451.95 0.0277 0.0157

Saturn 65722-01-13 21:22 G 25725540.24 25725540.39 25725540.53 0.0277 0.0015

Saturn 65722-04-12 10:19 G 25725628.81 25725628.93 25725629.06 0.0277 0.0128

Saturn 65722-07-09 23:17 G 25725717.44 25725717.47 25725717.51 0.0278 0.0266

Moon 65724-06-12 13:12 G 25726420.98 25726421.05 25726421.12 0.2698 0.2182

Earth 65724-06-12 12:58 G 25726420.98 25726421.04 25726421.11 0.2691 0.2250 *

Jupiter 65726-05-17 07:12 G 25727124.74 25727124.80 25727124.86 0.0544 0.0490

Jupiter 65726-08-14 20:39 G 25727214.25 25727214.36 25727214.47 0.0543 0.0321

Mars 65726-11-05 12:43 G 25727296.96 25727297.03 25727297.10 0.1616 0.1369

Uranus 65727-02-05 16:19 G 25727389.13 25727389.18 25727389.25 0.0136 0.0123

Uranus 65727-05-04 20:10 G 25727477.25 25727477.34 25727477.44 0.0136 0.0102

Uranus 65727-08-01 00:00 G 25727565.39 25727565.50 25727565.62 0.0137 0.0082

Uranus 65727-10-28 03:51 G 25727653.54 25727653.66 25727653.79 0.0137 0.0061

Uranus 65728-01-24 07:41 G 25727741.69 25727741.82 25727741.96 0.0137 0.0041

Uranus 65728-04-21 11:31 G 25727829.84 25727829.98 25727830.12 0.0137 0.0020

Uranus 65728-07-18 15:22 G 25727917.99 25727918.14 25727918.28 0.0137 0.0004

Uranus 65728-10-14 18:58 G 25728006.15 25728006.29 25728006.43 0.0137 0.0020

Uranus 65729-01-10 22:48 G 25728094.31 25728094.45 25728094.58 0.0137 0.0041

Uranus 65729-04-09 02:24 G 25728182.47 25728182.60 25728182.73 0.0137 0.0060

Uranus 65729-07-06 06:00 G 25728270.64 25728270.75 25728270.86 0.0137 0.0080

Uranus 65729-10-02 09:36 G 25728358.81 25728358.90 25728359.00 0.0137 0.0100

Uranus 65729-12-29 13:12 G 25728446.99 25728447.05 25728447.12 0.0137 0.0120

Earth 65730-06-22 13:55 G 25728622.04 25728622.08 25728622.12 0.2687 0.2470

Moon 65730-06-22 13:55 G 25728622.05 25728622.08 25728622.12 0.2680 0.2539 *

Venus 65730-09-17 21:36 G 25728709.31 25728709.40 25728709.49 0.3685 0.1888

Jupiter 65732-06-27 21:36 G 25729358.24 25729358.40 25729358.55 0.0484 0.0175

Moon 65732-12-21 21:22 G 25729535.29 25729535.39 25729535.49 0.2638 0.1869

Earth 65732-12-21 21:51 G 25729535.31 25729535.41 25729535.52 0.2644 0.1841 *

Mars 65733-06-09 05:31 G 25729704.66 25729704.73 25729704.81 0.1907 0.1588

Saturn 65736-02-04 00:15 G 25730674.50 25730674.51 25730674.54 0.0283 0.0281

Mars 65736-03-27 21:22 G 25730727.26 25730727.39 25730727.51 0.1617 0.0607

Venus 65736-04-02 14:24 G 25730733.00 25730733.10 25730733.21 0.3684 0.1040

Saturn 65736-05-02 18:15 G 25730763.11 25730763.26 25730763.41 0.0282 0.0112

Saturn 65736-07-30 12:15 G 25730851.85 25730852.01 25730852.18 0.0282 0.0060

Saturn 65736-10-27 06:43 G 25730940.69 25730940.78 25730940.87 0.0282 0.0235

Earth 65737-06-15 08:53 G 25731171.76 25731171.87 25731171.98 0.2690 0.0964

Moon 65737-06-15 09:22 G 25731171.78 25731171.89 25731172.00 0.2694 0.0922 *

Venus 65737-10-16 01:55 G 25731294.47 25731294.58 25731294.69 0.3686 0.2125

Jupiter 65738-06-02 23:17 G 25731524.34 25731524.47 25731524.60 0.0544 0.0128

Mars 65742-10-30 08:10 G 25733134.70 25733134.84 25733134.98 0.1906 0.0098

Venus 65743-05-02 03:51 G 25733318.65 25733318.66 25733318.67 0.3687 0.3670

Jupiter 65744-04-15 22:19 G 25733668.32 25733668.43 25733668.55 0.0484 0.0344

Jupiter 65744-07-14 18:00 G 25733758.14 25733758.25 25733758.37 0.0485 0.0356

Mars 65745-08-18 05:46 G 25734157.60 25734157.74 25734157.87 0.1618 0.0172

Jupiter 65750-03-22 01:55 G 25735834.45 25735834.58 25735834.72 0.0544 0.0066

Earth 65750-06-18 04:19 G 25735922.57 25735922.68 25735922.80 0.2689 0.0291

Moon 65750-06-18 05:17 G 25735922.60 25735922.72 25735922.83 0.2689 0.0365 *

Saturn 65751-03-06 09:07 G 25736183.78 25736183.88 25736183.98 0.0276 0.0202

Saturn 65751-06-02 22:34 G 25736272.30 25736272.44 25736272.58 0.0276 0.0059

Saturn 65751-08-30 11:46 G 25736360.85 25736360.99 25736361.13 0.0277 0.0083

Saturn 65751-11-27 00:43 G 25736449.45 25736449.53 25736449.62 0.0277 0.0222

Mars 65752-03-21 11:17 G 25736564.87 25736564.97 25736565.06 0.1904 0.1345

Earth 65752-12-17 00:00 G 25736835.38 25736835.50 25736835.62 0.2642 0.1361

Moon 65752-12-17 01:12 G 25736835.42 25736835.55 25736835.67 0.2638 0.1299 *

Mars 65755-01-08 13:55 G 25737587.97 25737588.08 25737588.19 0.1619 0.0969

Jupiter 65756-05-02 18:29 G 25738068.11 25738068.27 25738068.42 0.0485 0.0176

Jupiter 65762-01-08 04:19 G 25740144.56 25740144.68 25740144.80 0.0544 0.0264

Jupiter 65762-04-07 17:17 G 25740234.20 25740234.22 25740234.24 0.0543 0.0535

Neptune 65762-11-01 19:27 G 25740442.31 25740442.31 25740442.36 0.0088 0.0087

Neptune 65763-01-28 22:34 G 25740530.36 25740530.44 25740530.52 0.0088 0.0077

Neptune 65763-04-27 00:58 G 25740618.45 25740618.54 25740618.66 0.0088 0.0068

Earth 65763-06-20 23:46 G 25740673.39 25740673.49 25740673.59 0.2688 0.1508

Moon 65763-06-21 00:15 G 25740673.42 25740673.51 25740673.60 0.2683 0.1601 *

Neptune 65763-07-24 03:36 G 25740706.54 25740706.65 25740706.80 0.0088 0.0059

Neptune 65763-10-20 06:29 G 25740794.64 25740794.77 25740794.92 0.0088 0.0049

Neptune 65764-01-16 09:07 G 25740882.74 25740882.88 25740883.05 0.0088 0.0040

Neptune 65764-04-13 12:00 G 25740970.84 25740971.00 25740971.17 0.0088 0.0030

Neptune 65764-07-10 14:53 G 25741058.95 25741059.12 25741059.29 0.0088 0.0021

Neptune 65764-10-06 17:46 G 25741147.06 25741147.24 25741147.41 0.0088 0.0011

Neptune 65765-01-02 20:24 G 25741235.18 25741235.35 25741235.53 0.0088 0.0002

Neptune 65765-03-31 23:17 G 25741323.29 25741323.47 25741323.65 0.0088 0.0008

Neptune 65765-06-28 01:55 G 25741411.41 25741411.58 25741411.76 0.0088 0.0018

Saturn 65765-09-19 17:17 G 25741495.10 25741495.22 25741495.36 0.0282 0.0171

Neptune 65765-09-24 04:48 G 25741499.54 25741499.70 25741499.87 0.0088 0.0028

Saturn 65765-12-17 11:17 G 25741583.81 25741583.97 25741584.14 0.0282 0.0008

Earth 65765-12-20 01:41 G 25741586.43 25741586.57 25741586.71 0.2643 0.0378

Moon 65765-12-20 02:10 G 25741586.45 25741586.59 25741586.73 0.2637 0.0485 *

Neptune 65765-12-21 07:27 G 25741587.66 25741587.81 25741587.98 0.0088 0.0038

Saturn 65766-03-16 05:46 G 25741672.61 25741672.74 25741672.87 0.0282 0.0174

Neptune 65766-03-19 10:34 G 25741675.79 25741675.94 25741676.09 0.0088 0.0047

Mars 65766-05-06 12:58 G 25741723.99 25741724.04 25741724.09 0.1616 0.1491

Neptune 65766-06-15 13:12 G 25741763.93 25741764.05 25741764.20 0.0088 0.0058

Neptune 65766-09-11 16:05 G 25741852.07 25741852.17 25741852.29 0.0088 0.0067

Neptune 65766-12-08 18:58 G 25741940.22 25741940.29 25741940.39 0.0088 0.0077

Neptune 65767-03-06 21:51 G 25742028.40 25742028.41 25742028.44 0.0088 0.0087

Uranus 65767-08-27 07:55 G 25742201.79 25742201.83 25742201.88 0.0142 0.0136

Uranus 65767-11-23 14:24 G 25742290.00 25742290.10 25742290.21 0.0141 0.0109

Jupiter 65768-02-19 19:12 G 25742378.14 25742378.30 25742378.47 0.0485 0.0008

Uranus 65768-02-19 20:53 G 25742378.23 25742378.37 25742378.52 0.0141 0.0081 *

Uranus 65768-05-18 03:22 G 25742466.48 25742466.64 25742466.81 0.0141 0.0054

Uranus 65768-08-14 10:05 G 25742554.74 25742554.92 25742555.09 0.0141 0.0027

Uranus 65768-11-10 16:34 G 25742643.02 25742643.19 25742643.37 0.0141 0.0002

Uranus 65769-02-06 23:03 G 25742731.29 25742731.46 25742731.64 0.0141 0.0030

Uranus 65769-05-06 05:46 G 25742819.58 25742819.74 25742819.91 0.0141 0.0057

Uranus 65769-08-02 12:29 G 25742907.88 25742908.02 25742908.17 0.0141 0.0085

Uranus 65769-10-29 19:12 G 25742996.20 25742996.30 25742996.41 0.0141 0.0113

Earth 65770-06-13 18:15 G 25743223.18 25743223.26 25743223.33 0.2691 0.2008

Moon 65770-06-13 18:15 G 25743223.19 25743223.26 25743223.34 0.2698 0.2062 *

Mars 65772-12-08 05:46 G 25744131.69 25744131.74 25744131.80 0.1907 0.1761

Jupiter 65773-10-27 05:46 G 25744454.68 25744454.74 25744454.80 0.0544 0.0487

Jupiter 65774-01-24 18:58 G 25744544.18 25744544.29 25744544.40 0.0543 0.0324

Mars 65775-09-26 21:36 G 25745154.28 25745154.40 25745154.52 0.1617 0.0737

Moon 65776-06-22 18:58 G 25745424.27 25745424.29 25745424.31 0.2680 0.2621

Moon 65778-12-23 03:22 G 25746337.55 25746337.64 25746337.73 0.2638 0.2017

Earth 65778-12-23 03:51 G 25746337.59 25746337.66 25746337.74 0.2645 0.2182 *

Jupiter 65779-12-08 19:55 G 25746688.17 25746688.33 25746688.49 0.0485 0.0168

Saturn 65780-07-23 11:46 G 25746915.92 25746915.99 25746916.07 0.0277 0.0232

Saturn 65780-10-20 01:27 G 25747004.42 25747004.56 25747004.70 0.0277 0.0087

Saturn 65781-01-16 14:39 G 25747092.97 25747093.11 25747093.26 0.0277 0.0056

Saturn 65781-04-15 03:36 G 25747181.56 25747181.65 25747181.76 0.0278 0.0196

Mars 65782-04-30 08:24 G 25747561.72 25747561.85 25747561.99 0.1906 0.0266

Earth 65783-06-16 13:55 G 25747973.97 25747974.08 25747974.19 0.2690 0.0726

Moon 65783-06-16 14:39 G 25747974.00 25747974.11 25747974.22 0.2693 0.0596 *

Mars 65785-02-16 06:00 G 25748584.61 25748584.75 25748584.88 0.1618 0.0047

Jupiter 65785-11-12 21:07 G 25748854.25 25748854.38 25748854.52 0.0543 0.0121

Moon 65785-12-15 05:46 G 25748886.71 25748886.74 25748886.77 0.2641 0.2558

Venus 65787-04-24 19:27 G 25749382.20 25749382.31 25749382.41 0.3685 0.0801

Mars 65791-09-20 11:17 G 25750991.87 25750991.97 25750992.08 0.1904 0.1191

Jupiter 65791-09-26 20:10 G 25750998.23 25750998.34 25750998.46 0.0484 0.0345

Jupiter 65791-12-25 15:51 G 25751088.05 25751088.16 25751088.28 0.0485 0.0355

Venus 65792-11-07 12:15 G 25751405.92 25751406.01 25751406.10 0.3684 0.2109

Venus 65794-05-23 01:55 G 25751967.44 25751967.58 25751967.72 0.3686 0.0155

Mars 65794-07-09 14:10 G 25752014.98 25752015.09 25752015.21 0.1619 0.0838

Saturn 65795-02-06 20:10 G 25752227.23 25752227.34 25752227.46 0.0282 0.0195

Saturn 65795-05-06 14:10 G 25752315.93 25752316.09 25752316.25 0.0282 0.0025

Saturn 65795-08-03 08:24 G 25752404.71 25752404.85 25752404.99 0.0282 0.0149

Earth 65796-06-18 09:22 G 25752724.78 25752724.89 25752725.01 0.2689 0.0524

Moon 65796-06-18 10:19 G 25752724.81 25752724.93 25752725.04 0.2688 0.0620 *

Jupiter 65797-08-31 23:31 G 25753164.35 25753164.48 25753164.62 0.0544 0.0080

Earth 65798-12-18 06:00 G 25753637.62 25753637.75 25753637.88 0.2642 0.1041

Moon 65798-12-18 06:58 G 25753637.66 25753637.79 25753637.93 0.2638 0.0908 *

Jupiter 65803-10-14 16:34 G 25755398.03 25755398.19 25755398.34 0.0485 0.0178

Mars 65805-11-05 13:12 G 25756151.04 25756151.05 25756151.05 0.1616 0.1614

Pluto 65806-06-05 02:39 G 25756362.57 25756362.61 25756362.69 0.0079 0.0074

Pluto 65806-09-01 04:48 G 25756450.59 25756450.70 25756450.84 0.0078 0.0052

Pluto 65806-11-28 06:43 G 25756538.64 25756538.78 25756538.95 0.0078 0.0031

Pluto 65807-02-24 08:53 G 25756626.70 25756626.87 25756627.04 0.0078 0.0010

Pluto 65807-05-23 10:48 G 25756714.78 25756714.95 25756715.12 0.0078 0.0011

Pluto 65807-08-19 12:29 G 25756802.88 25756803.02 25756803.19 0.0078 0.0032

Pluto 65807-11-15 14:24 G 25756890.99 25756891.10 25756891.23 0.0078 0.0053

Pluto 65808-02-11 16:05 G 25756979.14 25756979.17 25756979.24 0.0078 0.0074

Jupiter 65809-06-21 02:10 G 25757474.47 25757474.59 25757474.71 0.0544 0.0274

Earth 65809-06-22 04:48 G 25757475.61 25757475.70 25757475.79 0.2688 0.1735

Moon 65809-06-22 05:03 G 25757475.63 25757475.71 25757475.80 0.2681 0.1747 *

Jupiter 65809-09-18 15:07 G 25757564.10 25757564.13 25757564.16 0.0543 0.0527

Saturn 65809-12-11 13:12 G 25757648.05 25757648.05 25757648.07 0.0276 0.0274

Saturn 65810-03-10 03:07 G 25757736.50 25757736.63 25757736.75 0.0276 0.0130

Saturn 65810-06-06 16:19 G 25757825.04 25757825.18 25757825.33 0.0277 0.0013

Saturn 65810-09-03 05:31 G 25757913.61 25757913.73 25757913.85 0.0277 0.0153

Uranus 65811-02-26 23:17 G 25758090.41 25758090.47 25758090.55 0.0136 0.0118

Uranus 65811-05-26 03:22 G 25758178.54 25758178.64 25758178.74 0.0136 0.0097

Uranus 65811-08-22 06:58 G 25758266.68 25758266.79 25758266.91 0.0137 0.0077

Uranus 65811-11-18 10:48 G 25758354.83 25758354.95 25758355.08 0.0137 0.0056

Moon 65811-12-22 07:41 G 25758388.68 25758388.82 25758388.96 0.2637 0.0648

Earth 65811-12-22 07:41 G 25758388.68 25758388.82 25758388.96 0.2643 0.0700 *

Uranus 65812-02-14 14:39 G 25758442.98 25758443.11 25758443.25 0.0137 0.0036

Uranus 65812-05-12 18:29 G 25758531.13 25758531.27 25758531.41 0.0137 0.0015

Uranus 65812-08-08 22:05 G 25758619.28 25758619.42 25758619.57 0.0137 0.0007

Uranus 65812-11-05 01:55 G 25758707.44 25758707.58 25758707.72 0.0137 0.0025

Uranus 65813-02-01 05:31 G 25758795.60 25758795.73 25758795.87 0.0137 0.0045

Uranus 65813-04-30 09:22 G 25758883.77 25758883.89 25758884.01 0.0137 0.0065

Uranus 65813-07-27 12:58 G 25758971.93 25758972.04 25758972.15 0.0137 0.0085

Uranus 65813-10-23 16:19 G 25759060.10 25759060.18 25759060.28 0.0137 0.0106

Uranus 65814-01-19 20:10 G 25759148.29 25759148.34 25759148.40 0.0137 0.0125

Mars 65815-03-28 21:51 G 25759581.29 25759581.41 25759581.52 0.1617 0.0859

Jupiter 65815-08-02 17:03 G 25759708.04 25759708.21 25759708.37 0.0484 0.0012

Earth 65816-06-14 23:17 G 25760025.38 25760025.47 25760025.56 0.2691 0.1762

Moon 65816-06-14 23:31 G 25760025.39 25760025.48 25760025.57 0.2698 0.1669 *

Jupiter 65821-04-09 04:34 G 25761784.62 25761784.69 25761784.75 0.0544 0.0476

Jupiter 65821-07-07 18:00 G 25761874.14 25761874.25 25761874.35 0.0543 0.0337

Mars 65821-10-30 08:24 G 25761988.72 25761988.85 25761988.98 0.1906 0.0399

Saturn 65824-06-26 19:12 G 25762959.24 25762959.30 25762959.37 0.0282 0.0255

Mars 65824-08-18 06:15 G 25763011.62 25763011.76 25763011.89 0.1618 0.0091

Saturn 65824-09-23 12:58 G 25763047.89 25763048.04 25763048.20 0.0282 0.0086

Saturn 65824-12-21 07:12 G 25763136.64 25763136.80 25763136.96 0.0282 0.0086

Moon 65824-12-24 09:07 G 25763139.84 25763139.88 25763139.92 0.2639 0.2526

Earth 65824-12-24 09:51 G 25763139.87 25763139.91 25763139.95 0.2645 0.2509 *

Saturn 65825-03-20 01:27 G 25763225.51 25763225.56 25763225.63 0.0282 0.0262

Jupiter 65827-05-21 17:46 G 25764018.09 25764018.24 25764018.40 0.0484 0.0169

Earth 65829-06-17 18:58 G 25764776.17 25764776.29 25764776.41 0.2690 0.0489

Moon 65829-06-17 19:41 G 25764776.21 25764776.32 25764776.44 0.2692 0.0474 *

Mars 65831-03-22 11:46 G 25765418.87 25765418.99 25765419.10 0.1904 0.1013

Earth 65831-12-17 10:34 G 25765688.88 25765688.94 25765688.99 0.2641 0.2404

Moon 65831-12-17 11:46 G 25765688.93 25765688.99 25765689.05 0.2639 0.2347 *

Jupiter 65833-04-25 19:41 G 25766184.19 25766184.32 25766184.45 0.0543 0.0124

Mars 65834-01-08 14:24 G 25766441.98 25766442.10 25766442.23 0.1619 0.0704

Venus 65838-05-17 00:00 G 25768031.43 25768031.50 25768031.58 0.3686 0.2657

Jupiter 65839-03-09 18:43 G 25768328.16 25768328.28 25768328.39 0.0484 0.0340

Jupiter 65839-06-07 14:24 G 25768417.99 25768418.10 25768418.21 0.0485 0.0361

Saturn 65839-07-28 05:31 G 25768468.61 25768468.73 25768468.85 0.0277 0.0161

Saturn 65839-10-24 18:58 G 25768557.15 25768557.29 25768557.44 0.0277 0.0018

Saturn 65840-01-21 08:10 G 25768645.71 25768645.84 25768645.97 0.0277 0.0124

Saturn 65840-04-18 21:07 G 25768734.34 25768734.38 25768734.43 0.0278 0.0263

Earth 65842-06-20 14:24 G 25769526.99 25769527.10 25769527.21 0.2689 0.0753

Moon 65842-06-20 15:07 G 25769527.02 25769527.13 25769527.24 0.2687 0.0858 *

Mars 65843-05-31 22:34 G 25769872.39 25769872.44 25769872.48 0.1620 0.1515

Neptune 65843-11-29 14:24 G 25770054.09 25770054.10 25770054.13 0.0089 0.0088

Venus 65843-11-30 17:03 G 25770055.11 25770055.21 25770055.32 0.3685 0.0339

Neptune 65844-02-25 16:05 G 25770142.12 25770142.17 25770142.25 0.0089 0.0080

Neptune 65844-05-23 18:00 G 25770230.17 25770230.25 25770230.34 0.0089 0.0071

Neptune 65844-08-19 19:41 G 25770318.22 25770318.32 25770318.43 0.0089 0.0063

Neptune 65844-11-15 21:22 G 25770406.28 25770406.39 25770406.51 0.0089 0.0054

Earth 65844-12-19 11:46 G 25770439.86 25770439.99 25770440.13 0.2642 0.0724

Moon 65844-12-19 12:43 G 25770439.89 25770440.03 25770440.17 0.2638 0.0634 *

Jupiter 65845-02-11 21:36 G 25770494.27 25770494.40 25770494.54 0.0544 0.0085

Neptune 65845-02-11 23:17 G 25770494.35 25770494.47 25770494.59 0.0089 0.0046 *

Neptune 65845-05-11 00:43 G 25770582.41 25770582.53 25770582.67 0.0089 0.0038

Neptune 65845-08-07 02:24 G 25770670.48 25770670.60 25770670.75 0.0089 0.0030

Neptune 65845-11-03 04:19 G 25770758.54 25770758.68 25770758.82 0.0089 0.0021

Neptune 65846-01-30 06:00 G 25770846.61 25770846.75 25770846.89 0.0089 0.0013

Neptune 65846-04-28 07:41 G 25770934.68 25770934.82 25770934.96 0.0089 0.0004

Neptune 65846-07-25 09:22 G 25771022.75 25771022.89 25771023.03 0.0089 0.0004

Neptune 65846-10-21 11:03 G 25771110.82 25771110.96 25771111.10 0.0089 0.0012

Neptune 65847-01-17 12:29 G 25771198.89 25771199.02 25771199.16 0.0089 0.0020

Neptune 65847-04-15 14:10 G 25771286.96 25771287.09 25771287.23 0.0089 0.0028

Neptune 65847-07-12 15:51 G 25771375.03 25771375.16 25771375.29 0.0089 0.0036

Neptune 65847-10-08 17:17 G 25771463.11 25771463.22 25771463.35 0.0089 0.0045

Neptune 65848-01-04 18:58 G 25771551.18 25771551.29 25771551.41 0.0089 0.0052

Neptune 65848-04-01 20:39 G 25771639.26 25771639.36 25771639.47 0.0089 0.0060

Neptune 65848-06-28 22:05 G 25771727.34 25771727.42 25771727.52 0.0089 0.0069

Neptune 65848-09-24 23:46 G 25771815.43 25771815.49 25771815.57 0.0089 0.0076

Neptune 65848-12-22 01:12 G 25771903.52 25771903.55 25771903.61 0.0089 0.0084

Venus 65849-06-15 10:05 G 25772078.87 25772078.92 25772078.97 0.3684 0.3191

Venus 65850-12-29 02:10 G 25772640.47 25772640.59 25772640.71 0.3686 0.1874

Jupiter 65851-03-26 14:24 G 25772727.94 25772728.10 25772728.25 0.0485 0.0177

Uranus 65851-09-17 15:22 G 25772903.07 25772903.14 25772903.22 0.0142 0.0127

Uranus 65851-12-14 21:51 G 25772991.29 25772991.41 25772991.54 0.0142 0.0100

Uranus 65852-03-12 04:19 G 25773079.54 25773079.68 25773079.83 0.0141 0.0073

Uranus 65852-06-08 10:48 G 25773167.79 25773167.95 25773168.12 0.0141 0.0045

Uranus 65852-09-04 17:31 G 25773256.05 25773256.23 25773256.40 0.0141 0.0018

Uranus 65852-12-02 00:00 G 25773344.33 25773344.50 25773344.68 0.0141 0.0010

Uranus 65853-02-28 06:43 G 25773432.61 25773432.78 25773432.95 0.0141 0.0038

Uranus 65853-05-27 13:12 G 25773520.90 25773521.05 25773521.21 0.0141 0.0066

Uranus 65853-08-23 19:55 G 25773609.21 25773609.33 25773609.47 0.0141 0.0094

Saturn 65853-11-13 22:05 G 25773691.40 25773691.42 25773691.46 0.0283 0.0278

Uranus 65853-11-20 02:53 G 25773697.53 25773697.62 25773697.70 0.0141 0.0122

Saturn 65854-02-10 16:05 G 25773780.02 25773780.17 25773780.32 0.0282 0.0110

Saturn 65854-05-10 10:05 G 25773868.76 25773868.92 25773869.08 0.0282 0.0062

Saturn 65854-08-07 04:19 G 25773957.60 25773957.68 25773957.78 0.0282 0.0237

Mars 65854-09-26 21:51 G 25774008.31 25774008.41 25774008.52 0.1617 0.0981

Earth 65855-06-23 09:51 G 25774277.83 25774277.91 25774277.99 0.2688 0.1962

Moon 65855-06-23 10:05 G 25774277.85 25774277.92 25774278.00 0.2681 0.2006 *

Jupiter 65856-11-30 23:46 G 25774804.37 25774804.49 25774804.61 0.0544 0.0290

Jupiter 65857-02-28 12:43 G 25774893.99 25774894.03 25774894.07 0.0543 0.0513

Moon 65857-12-22 13:41 G 25775190.93 25775191.07 25775191.20 0.2637 0.1058

Earth 65857-12-22 13:41 G 25775190.94 25775191.07 25775191.20 0.2644 0.1032 *

Mars 65861-04-30 08:53 G 25776415.74 25776415.87 25776416.00 0.1906 0.0579

Earth 65862-06-16 04:19 G 25776827.59 25776827.68 25776827.78 0.2691 0.1520

Moon 65862-06-16 04:48 G 25776827.61 25776827.70 25776827.80 0.2696 0.1540 *

Jupiter 65863-01-12 15:07 G 25777037.96 25777038.13 25777038.29 0.0484 0.0013

Mars 65864-02-17 06:29 G 25777438.63 25777438.77 25777438.90 0.1618 0.0218

Jupiter 65868-09-19 02:10 G 25779114.53 25779114.59 25779114.65 0.0545 0.0488

Saturn 65868-12-14 07:12 G 25779200.71 25779200.80 25779200.90 0.0276 0.0202

Jupiter 65868-12-17 15:51 G 25779204.05 25779204.16 25779204.26 0.0544 0.0327

Saturn 65869-03-12 20:53 G 25779289.22 25779289.37 25779289.51 0.0276 0.0059

Saturn 65869-06-09 09:51 G 25779377.78 25779377.91 25779378.05 0.0277 0.0084

Saturn 65869-09-05 22:48 G 25779466.37 25779466.45 25779466.54 0.0277 0.0222

Mars 65870-09-20 11:31 G 25779845.86 25779845.98 25779846.10 0.1904 0.0882

Mars 65873-07-09 14:39 G 25780868.98 25780869.11 25780869.24 0.1619 0.0576

Jupiter 65874-10-31 15:36 G 25781347.99 25781348.15 25781348.30 0.0484 0.0171

Earth 65875-06-19 00:00 G 25781578.38 25781578.50 25781578.62 0.2690 0.0253

Moon 65875-06-19 00:58 G 25781578.42 25781578.54 25781578.65 0.2692 0.0129 *

Earth 65877-12-17 16:19 G 25782491.10 25782491.18 25782491.26 0.2641 0.2092

Moon 65877-12-17 17:31 G 25782491.13 25782491.23 25782491.33 0.2639 0.1885 *

Jupiter 65880-10-05 18:29 G 25783514.14 25783514.27 25783514.40 0.0544 0.0135

Mars 65882-11-29 22:48 G 25784299.38 25784299.45 25784299.52 0.1620 0.1378

Saturn 65883-06-30 14:53 G 25784511.99 25784512.12 25784512.25 0.0282 0.0171

Saturn 65883-09-27 08:53 G 25784600.70 25784600.87 25784601.03 0.0282 0.0002

Saturn 65883-12-25 03:07 G 25784689.50 25784689.63 25784689.76 0.0282 0.0173

Jupiter 65886-08-19 16:34 G 25785658.08 25785658.19 25785658.31 0.0484 0.0338

Jupiter 65886-11-17 12:15 G 25785747.90 25785748.01 25785748.12 0.0485 0.0361

Earth 65888-06-20 19:27 G 25786329.20 25786329.31 25786329.42 0.2689 0.0986

Moon 65888-06-20 20:10 G 25786329.23 25786329.34 25786329.45 0.2685 0.1005 *

Earth 65890-12-20 17:46 G 25787242.10 25787242.24 25787242.38 0.2642 0.0399

Moon 65890-12-20 18:29 G 25787242.13 25787242.27 25787242.41 0.2637 0.0362 *

Jupiter 65892-07-24 20:10 G 25787824.21 25787824.34 25787824.48 0.0543 0.0079

Mars 65894-03-27 22:05 G 25788435.33 25788435.42 25788435.52 0.1617 0.1112

Uranus 65894-12-21 02:39 G 25788703.58 25788703.61 25788703.65 0.0136 0.0132

Venus 65894-12-21 21:51 G 25788704.32 25788704.41 25788704.51 0.3685 0.1537

Uranus 65895-03-19 06:29 G 25788791.70 25788791.77 25788791.86 0.0136 0.0111

Moon 65895-06-14 13:27 G 25788879.04 25788879.06 25788879.08 0.2699 0.2638

Earth 65895-06-14 13:41 G 25788879.04 25788879.07 25788879.10 0.2692 0.2573 *

Uranus 65895-06-15 10:19 G 25788879.83 25788879.93 25788880.04 0.0136 0.0091

Uranus 65895-09-11 14:10 G 25788967.98 25788968.09 25788968.22 0.0137 0.0070

Uranus 65895-12-08 18:00 G 25789056.12 25789056.25 25789056.39 0.0137 0.0050

Uranus 65896-03-05 21:51 G 25789144.27 25789144.41 25789144.55 0.0137 0.0030

Uranus 65896-06-02 01:41 G 25789232.43 25789232.57 25789232.71 0.0137 0.0009

Uranus 65896-08-29 05:17 G 25789320.58 25789320.72 25789320.87 0.0137 0.0012

Uranus 65896-11-25 09:07 G 25789408.74 25789408.88 25789409.02 0.0137 0.0031

Uranus 65897-02-21 12:43 G 25789496.90 25789497.03 25789497.16 0.0137 0.0051

Uranus 65897-05-20 16:19 G 25789585.07 25789585.18 25789585.31 0.0137 0.0071

Uranus 65897-08-16 19:55 G 25789673.24 25789673.33 25789673.44 0.0137 0.0092

Uranus 65897-11-12 23:31 G 25789761.41 25789761.48 25789761.57 0.0137 0.0111

Uranus 65898-02-09 03:22 G 25789849.60 25789849.64 25789849.68 0.0137 0.0131

Saturn 65898-05-03 09:22 G 25789932.82 25789932.89 25789932.97 0.0277 0.0237

Saturn 65898-07-30 23:03 G 25790021.32 25790021.46 25790021.60 0.0277 0.0093

Jupiter 65898-09-05 12:43 G 25790057.87 25790058.03 25790058.18 0.0485 0.0183

Saturn 65898-10-27 12:15 G 25790109.87 25790110.01 25790110.16 0.0277 0.0050

Saturn 65899-01-24 01:27 G 25790198.46 25790198.56 25790198.66 0.0278 0.0190

Venus 65900-07-07 14:53 G 25790728.02 25790728.12 25790728.22 0.3684 0.1406

Mars 65900-10-30 08:53 G 25790842.75 25790842.87 25790843.00 0.1906 0.0736

Earth 65901-06-24 14:53 G 25791080.05 25791080.12 25791080.18 0.2687 0.2185

Moon 65901-06-24 15:07 G 25791080.07 25791080.13 25791080.19 0.2681 0.2214 *

Venus 65902-01-20 00:29 G 25791289.40 25791289.52 25791289.63 0.3685 0.1837

Mars 65903-08-19 06:29 G 25791865.64 25791865.77 25791865.91 0.1618 0.0342

Moon 65903-12-24 19:27 G 25791993.19 25791993.31 25791993.44 0.2637 0.1321

Earth 65903-12-24 19:41 G 25791993.20 25791993.32 25791993.44 0.2644 0.1361 *

Jupiter 65904-05-13 22:05 G 25792134.30 25792134.42 25792134.54 0.0544 0.0288

Jupiter 65904-08-11 11:03 G 25792223.92 25792223.96 25792224.00 0.0543 0.0512

Earth 65908-06-17 09:22 G 25793629.79 25793629.89 25793630.00 0.2691 0.1281

Moon 65908-06-17 10:05 G 25793629.81 25793629.92 25793630.02 0.2695 0.1158 *

Mars 65910-03-22 12:00 G 25794272.87 25794273.00 25794273.12 0.1904 0.0716

Jupiter 65910-06-25 12:58 G 25794367.87 25794368.04 25794368.20 0.0484 0.0009

Saturn 65912-11-17 17:46 G 25795244.12 25795244.24 25795244.36 0.0282 0.0195

Mars 65913-01-08 14:53 G 25795295.99 25795296.12 25795296.25 0.1619 0.0446

Saturn 65913-02-14 11:31 G 25795332.82 25795332.98 25795333.15 0.0282 0.0027

Saturn 65913-05-14 05:46 G 25795421.60 25795421.74 25795421.89 0.0282 0.0148

Jupiter 65916-03-01 23:46 G 25796444.44 25796444.49 25796444.55 0.0545 0.0502

Jupiter 65916-05-30 13:27 G 25796533.95 25796534.06 25796534.17 0.0544 0.0315

Earth 65921-06-20 05:03 G 25798380.59 25798380.71 25798380.83 0.2690 0.0045

Moon 65921-06-20 06:00 G 25798380.63 25798380.75 25798380.86 0.2691 0.0083 *

Jupiter 65922-04-13 13:41 G 25798677.92 25798678.07 25798678.23 0.0484 0.0167

Mars 65922-05-31 23:03 G 25798726.37 25798726.46 25798726.54 0.1620 0.1251

Earth 65923-12-19 22:05 G 25799293.32 25799293.42 25799293.52 0.2641 0.1785

Moon 65923-12-19 23:17 G 25799293.37 25799293.47 25799293.58 0.2639 0.1751 *

Neptune 65927-07-31 18:15 G 25800613.22 25800613.26 25800613.34 0.0088 0.0082

Saturn 65927-09-21 11:17 G 25800664.97 25800664.97 25800664.99 0.0276 0.0275

Neptune 65927-10-27 21:22 G 25800701.29 25800701.39 25800701.48 0.0088 0.0072

Saturn 65927-12-19 00:58 G 25800753.41 25800753.54 25800753.67 0.0276 0.0131

Neptune 65928-01-23 23:46 G 25800789.38 25800789.49 25800789.62 0.0088 0.0063

Saturn 65928-03-16 14:24 G 25800841.95 25800842.10 25800842.24 0.0276 0.0011

Jupiter 65928-03-18 16:19 G 25800844.05 25800844.18 25800844.31 0.0544 0.0125

Neptune 65928-04-21 02:24 G 25800877.47 25800877.60 25800877.75 0.0088 0.0054

Saturn 65928-06-13 03:22 G 25800930.53 25800930.64 25800930.77 0.0277 0.0152

Neptune 65928-07-18 05:17 G 25800965.57 25800965.72 25800965.87 0.0088 0.0044

Neptune 65928-10-14 07:55 G 25801053.68 25801053.83 25801054.00 0.0088 0.0035

Neptune 65929-01-10 10:48 G 25801141.78 25801141.95 25801142.12 0.0088 0.0025

Neptune 65929-04-08 13:27 G 25801229.89 25801230.06 25801230.24 0.0088 0.0016

Neptune 65929-07-05 16:19 G 25801318.00 25801318.18 25801318.36 0.0088 0.0006

Neptune 65929-10-01 18:58 G 25801406.12 25801406.29 25801406.47 0.0088 0.0004

Neptune 65929-12-28 21:51 G 25801494.24 25801494.41 25801494.59 0.0088 0.0013

Neptune 65930-03-27 00:29 G 25801582.36 25801582.52 25801582.70 0.0088 0.0023

Neptune 65930-06-23 03:22 G 25801670.48 25801670.64 25801670.81 0.0088 0.0032

Neptune 65930-09-19 06:15 G 25801758.61 25801758.76 25801758.92 0.0088 0.0042

Neptune 65930-12-16 08:53 G 25801846.74 25801846.87 25801847.02 0.0088 0.0052

Neptune 65931-03-14 11:31 G 25801934.87 25801934.98 25801935.12 0.0088 0.0062

Neptune 65931-06-10 14:24 G 25802023.02 25802023.10 25802023.22 0.0088 0.0072

Neptune 65931-09-06 17:17 G 25802111.17 25802111.22 25802111.30 0.0088 0.0082

Mars 65933-09-26 22:19 G 25802862.34 25802862.43 25802862.52 0.1617 0.1230

Jupiter 65934-01-30 14:24 G 25802987.99 25802988.10 25802988.22 0.0484 0.0339

Jupiter 65934-04-30 10:05 G 25803077.81 25803077.92 25803078.03 0.0485 0.0359

Earth 65934-06-23 00:29 G 25803131.42 25803131.52 25803131.63 0.2689 0.1217

Moon 65934-06-23 01:12 G 25803131.45 25803131.55 25803131.65 0.2684 0.1344 *

Uranus 65935-10-08 22:34 G 25803604.36 25803604.44 25803604.55 0.0142 0.0119

Uranus 65936-01-05 05:03 G 25803692.59 25803692.71 25803692.85 0.0142 0.0092

Uranus 65936-04-02 11:31 G 25803780.84 25803780.98 25803781.15 0.0141 0.0065

Uranus 65936-06-29 18:15 G 25803869.09 25803869.26 25803869.43 0.0141 0.0037

Uranus 65936-09-26 00:43 G 25803957.36 25803957.53 25803957.71 0.0141 0.0010

Earth 65936-12-21 23:31 G 25804044.34 25804044.48 25804044.63 0.2643 0.0120

Moon 65936-12-22 00:00 G 25804044.36 25804044.50 25804044.65 0.2636 0.0053 *

Uranus 65936-12-23 07:27 G 25804045.63 25804045.81 25804045.98 0.0141 0.0019

Uranus 65937-03-21 13:55 G 25804133.92 25804134.08 25804134.25 0.0141 0.0047

Uranus 65937-06-17 20:39 G 25804222.21 25804222.36 25804222.51 0.0141 0.0075

Uranus 65937-09-14 03:07 G 25804310.52 25804310.63 25804310.76 0.0141 0.0103

Uranus 65937-12-11 09:51 G 25804398.86 25804398.91 25804398.99 0.0141 0.0131

Jupiter 65940-01-05 18:58 G 25805154.15 25805154.29 25805154.43 0.0544 0.0069

Mars 65940-04-30 09:07 G 25805269.75 25805269.88 25805270.00 0.1906 0.0883

Moon 65941-06-15 18:43 G 25805681.22 25805681.28 25805681.34 0.2698 0.2319

Earth 65941-06-15 18:43 G 25805681.22 25805681.28 25805681.34 0.2692 0.2330 *

Saturn 65942-04-06 16:19 G 25805976.12 25805976.18 25805976.25 0.0283 0.0258

Saturn 65942-07-04 10:19 G 25806064.77 25806064.93 25806065.08 0.0282 0.0090

Saturn 65942-10-01 04:19 G 25806153.52 25806153.68 25806153.84 0.0282 0.0082

Saturn 65942-12-28 22:34 G 25806242.38 25806242.44 25806242.51 0.0282 0.0257

Mars 65943-02-17 06:43 G 25806292.65 25806292.78 25806292.91 0.1618 0.0471

Venus 65946-01-13 02:39 G 25807353.57 25807353.61 25807353.65 0.3686 0.3408

Jupiter 65946-02-16 10:34 G 25807387.79 25807387.94 25807388.10 0.0485 0.0186

Moon 65947-06-25 19:55 G 25807882.28 25807882.33 25807882.38 0.2681 0.2387

Earth 65947-06-25 19:55 G 25807882.28 25807882.33 25807882.38 0.2687 0.2412 *

Mars 65949-09-20 12:15 G 25808699.88 25808700.01 25808700.14 0.1904 0.0552

Moon 65949-12-25 01:27 G 25808795.44 25808795.56 25808795.67 0.2638 0.1657

Earth 65949-12-25 01:41 G 25808795.46 25808795.57 25808795.68 0.2644 0.1698 *

Venus 65951-07-29 19:41 G 25809377.22 25809377.32 25809377.43 0.3685 0.0428

Jupiter 65951-10-24 20:53 G 25809464.25 25809464.37 25809464.48 0.0544 0.0281

Jupiter 65952-01-22 09:51 G 25809553.87 25809553.91 25809553.94 0.0543 0.0520

Mars 65952-07-09 15:07 G 25809723.00 25809723.13 25809723.26 0.1619 0.0316

Earth 65954-06-18 14:39 G 25810432.00 25810432.11 25810432.21 0.2691 0.1042

Moon 65954-06-18 15:07 G 25810432.03 25810432.13 25810432.24 0.2695 0.1019 *

Venus 65957-02-11 12:43 G 25811400.95 25811401.03 25811401.11 0.3684 0.2495

Saturn 65957-05-07 02:39 G 25811485.50 25811485.61 25811485.73 0.0277 0.0170

Saturn 65957-08-03 16:19 G 25811574.03 25811574.18 25811574.32 0.0277 0.0027

Saturn 65957-10-31 05:31 G 25811662.60 25811662.73 25811662.86 0.0277 0.0114

Jupiter 65957-12-05 11:17 G 25811697.80 25811697.97 25811698.14 0.0485 0.0010

Saturn 65958-01-27 18:29 G 25811751.21 25811751.27 25811751.33 0.0278 0.0253

Venus 65958-08-27 00:29 G 25811962.38 25811962.52 25811962.65 0.3686 0.0159

Mars 65961-11-29 23:17 G 25813153.37 25813153.47 25813153.56 0.1620 0.1119

Jupiter 65963-08-12 22:34 G 25813774.38 25813774.44 25813774.49 0.0544 0.0494

Jupiter 65963-11-10 12:00 G 25813863.89 25813864.00 25813864.11 0.0543 0.0320

Pluto 65966-07-02 12:58 G 25814828.99 25814829.04 25814829.11 0.0065 0.0058

Pluto 65966-09-28 13:27 G 25814916.98 25814917.06 25814917.18 0.0065 0.0048

Pluto 65966-12-25 14:10 G 25815004.98 25815005.09 25815005.23 0.0065 0.0038

Pluto 65967-03-23 15:07 G 25815093.00 25815093.13 25815093.27 0.0065 0.0027

Pluto 65967-06-19 15:51 G 25815181.02 25815181.16 25815181.31 0.0065 0.0016

Earth 65967-06-21 10:05 G 25815182.81 25815182.92 25815183.04 0.2690 0.0238

Moon 65967-06-21 11:03 G 25815182.84 25815182.96 25815183.07 0.2689 0.0380 *

Pluto 65967-09-15 16:34 G 25815269.04 25815269.19 25815269.34 0.0065 0.0005

Pluto 65967-12-12 17:17 G 25815357.07 25815357.22 25815357.37 0.0066 0.0006

Pluto 65968-03-09 17:46 G 25815445.10 25815445.24 25815445.39 0.0066 0.0017

Pluto 65968-06-05 18:15 G 25815533.14 25815533.26 25815533.41 0.0066 0.0028

Pluto 65968-09-01 19:12 G 25815621.19 25815621.30 25815621.42 0.0066 0.0038

Pluto 65968-11-28 19:55 G 25815709.24 25815709.33 25815709.43 0.0066 0.0049

Pluto 65969-02-24 20:24 G 25815797.30 25815797.35 25815797.42 0.0066 0.0060

Jupiter 65969-09-23 11:46 G 25816007.84 25816007.99 25816008.15 0.0484 0.0166

Earth 65969-12-20 04:05 G 25816095.55 25816095.67 25816095.78 0.2641 0.1472

Moon 65969-12-20 05:03 G 25816095.59 25816095.71 25816095.84 0.2639 0.1275 *

Saturn 65971-11-21 12:43 G 25816796.89 25816797.03 25816797.18 0.0282 0.0117

Saturn 65972-02-18 06:43 G 25816885.62 25816885.78 25816885.95 0.0282 0.0056

Saturn 65972-05-17 01:12 G 25816974.46 25816974.55 25816974.65 0.0282 0.0229

Mars 65973-03-27 22:34 G 25817289.37 25817289.44 25817289.51 0.1617 0.1353

Jupiter 65975-08-29 14:10 G 25818173.95 25818174.09 25818174.22 0.0544 0.0115

Uranus 65979-01-11 09:36 G 25819404.86 25819404.90 25819404.96 0.0136 0.0127

Uranus 65979-04-09 13:41 G 25819492.98 25819493.07 25819493.16 0.0136 0.0106

Uranus 65979-07-06 17:17 G 25819581.12 25819581.22 25819581.34 0.0137 0.0086

Uranus 65979-10-02 21:22 G 25819669.26 25819669.39 25819669.51 0.0137 0.0065

Mars 65979-10-30 09:22 G 25819696.77 25819696.89 25819697.00 0.1906 0.1049

Uranus 65979-12-30 00:58 G 25819757.41 25819757.54 25819757.68 0.0137 0.0045

Uranus 65980-03-27 04:48 G 25819845.56 25819845.70 25819845.84 0.0137 0.0025

Earth 65980-06-23 05:31 G 25819933.64 25819933.73 25819933.83 0.2688 0.1446

Moon 65980-06-23 06:15 G 25819933.66 25819933.76 25819933.86 0.2683 0.1436 *

Uranus 65980-06-23 08:39 G 25819933.72 25819933.86 25819934.00 0.0137 0.0004 *

Uranus 65980-09-19 12:29 G 25820021.88 25820022.02 25820022.16 0.0137 0.0016

Uranus 65980-12-16 16:05 G 25820110.04 25820110.17 25820110.31 0.0137 0.0036

Uranus 65981-03-14 19:41 G 25820198.20 25820198.32 25820198.45 0.0137 0.0056

Uranus 65981-06-10 23:17 G 25820286.36 25820286.47 25820286.59 0.0137 0.0077

Jupiter 65981-07-12 12:43 G 25820317.92 25820318.03 25820318.15 0.0484 0.0333

Uranus 65981-09-07 02:53 G 25820374.53 25820374.62 25820374.73 0.0137 0.0097

Jupiter 65981-10-10 08:10 G 25820407.74 25820407.84 25820407.96 0.0485 0.0366

Uranus 65981-12-04 06:29 G 25820462.71 25820462.77 25820462.86 0.0137 0.0116

Uranus 65982-03-02 10:19 G 25820550.92 25820550.93 25820550.95 0.0137 0.0136

Mars 65982-08-18 06:58 G 25820719.66 25820719.79 25820719.92 0.1618 0.0590

Earth 65982-12-23 05:31 G 25820846.59 25820846.73 25820846.87 0.2643 0.0245

Moon 65982-12-23 06:00 G 25820846.60 25820846.75 25820846.89 0.2636 0.0202 *

Saturn 65986-09-24 05:03 G 25822217.61 25822217.71 25822217.80 0.0276 0.0206

Saturn 65986-12-21 18:29 G 25822306.13 25822306.27 25822306.41 0.0276 0.0063

Saturn 65987-03-20 07:41 G 25822394.68 25822394.82 25822394.96 0.0276 0.0077

Saturn 65987-06-16 20:39 G 25822483.28 25822483.36 25822483.45 0.0276 0.0216

Earth 65987-06-16 23:46 G 25822483.42 25822483.49 25822483.57 0.2692 0.2085 *

Moon 65987-06-17 00:00 G 25822483.43 25822483.50 25822483.58 0.2698 0.2057 *

Jupiter 65987-06-17 16:48 G 25822484.06 25822484.20 25822484.34 0.0544 0.0079

Mars 65989-03-21 12:00 G 25823126.87 25823127.00 25823127.14 0.1904 0.0415

Mars 65992-01-08 15:22 G 25824150.00 25824150.14 25824150.27 0.1619 0.0189

Moon 65993-06-26 00:43 G 25824684.52 25824684.53 25824684.54 0.2681 0.2666

Earth 65993-06-26 00:43 G 25824684.52 25824684.53 25824684.55 0.2687 0.2634 *

Jupiter 65993-07-29 08:39 G 25824717.71 25824717.86 25824718.02 0.0484 0.0186

Moon 65995-12-26 06:58 G 25825597.70 25825597.79 25825597.88 0.2638 0.2002

Earth 65995-12-26 07:27 G 25825597.72 25825597.81 25825597.91 0.2644 0.2027 *

Mars 65998-08-11 15:36 G 25826557.11 25826557.15 25826557.19 0.1903 0.1802

Jupiter 65999-04-05 19:27 G 25826794.19 25826794.31 25826794.43 0.0544 0.0274

Jupiter 65999-07-04 08:24 G 25826883.83 25826883.85 25826883.88 0.0543 0.0530

Earth 66000-06-18 19:41 G 25827234.20 25827234.32 25827234.43 0.2690 0.0804

Moon 66000-06-18 20:24 G 25827234.23 25827234.35 25827234.46 0.2695 0.0697 *

67TH MILLENNIUM CE

This is a list of transits of Mercury in the 67th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	66001-04-09 11:17	G	25827528.85	25827528.97	25827529.10	0.0283	0.0181	
Mars	66001-05-30 23:31	G	25827580.37	25827580.48	25827580.59	0.1620	0.0982	
Saturn	66001-07-07 05:17	G	25827617.55	25827617.72	25827617.88	0.0282	0.0012	
Saturn	66001-10-03 23:17	G	25827706.34	25827706.47	25827706.61	0.0282	0.0162	
Venus	66002-08-20 00:29	G	25828026.44	25828026.52	25828026.61	0.3686	0.2274	
Moon	66002-12-18 10:05	G	25828146.91	25828146.92	25828146.92	0.2641	0.2632	
Jupiter	66005-05-17 09:36	G	25829027.73	25829027.90	25829028.06	0.0484	0.0020	
Venus	66008-03-04 17:31	G	25830050.12	25830050.23	25830050.34	0.3685	0.0686	
Neptune	66008-08-26 13:55	G	25830225.03	25830225.08	25830225.13	0.0089	0.0084	
Neptune	66008-11-22 15:22	G	25830313.08	25830313.14	25830313.23	0.0089	0.0076	
Neptune	66009-02-18 17:31	G	25830401.13	25830401.23	25830401.32	0.0089	0.0067	
Neptune	66009-05-17 18:58	G	25830489.19	25830489.29	25830489.41	0.0089	0.0059	
Neptune	66009-08-13 20:39	G	25830577.25	25830577.36	25830577.49	0.0089	0.0050	
Venus	66009-09-16 22:48	G	25830611.41	25830611.45	25830611.49	0.3685	0.3485	
Neptune	66009-11-09 22:34	G	25830665.31	25830665.44	25830665.57	0.0089	0.0042	
Neptune	66010-02-06 00:15	G	25830753.38	25830753.51	25830753.64	0.0089	0.0033	
Neptune	66010-05-05 01:55	G	25830841.44	25830841.58	25830841.72	0.0089	0.0025	
Neptune	66010-08-01 03:36	G	25830929.51	25830929.65	25830929.79	0.0089	0.0017	
Neptune	66010-10-28 05:17	G	25831017.58	25831017.72	25831017.86	0.0089	0.0009	
Jupiter	66011-01-22 21:22	G	25831104.32	25831104.39	25831104.45	0.0544	0.0485	
Neptune	66011-01-24 06:58	G	25831105.65	25831105.79	25831105.93	0.0089	0.0001	
Neptune	66011-04-22 08:39	G	25831193.72	25831193.86	25831194.00	0.0089	0.0008	

Jupiter 66011-04-22 10:48 G 25831193.84 25831193.95 25831194.06 0.0543 0.0330 *

Neptune 66011-07-19 10:19 G 25831281.79 25831281.93 25831282.07 0.0089 0.0016

Neptune 66011-10-15 11:46 G 25831369.86 25831369.99 25831370.13 0.0089 0.0025

Neptune 66012-01-11 13:27 G 25831457.93 25831458.06 25831458.20 0.0089 0.0032

Neptune 66012-04-08 15:07 G 25831546.01 25831546.13 25831546.26 0.0089 0.0040

Neptune 66012-07-05 16:48 G 25831634.08 25831634.20 25831634.32 0.0089 0.0048

Mars 66012-09-25 22:48 G 25831716.40 25831716.45 25831716.50 0.1617 0.1479

Neptune 66012-10-01 18:15 G 25831722.16 25831722.26 25831722.38 0.0089 0.0057

Neptune 66012-12-28 19:55 G 25831810.24 25831810.33 25831810.43 0.0089 0.0064

Neptune 66013-03-26 21:36 G 25831898.32 25831898.40 25831898.49 0.0089 0.0072

Earth 66013-06-21 15:07 G 25831985.02 25831985.13 25831985.25 0.2689 0.0464

Moon 66013-06-21 16:05 G 25831985.05 25831985.17 25831985.28 0.2687 0.0486 *

Neptune 66013-06-22 23:03 G 25831986.41 25831986.46 25831986.53 0.0089 0.0080

Venus 66013-09-18 10:34 G 25832073.91 25832073.94 25832073.96 0.3684 0.3571

Neptune 66013-09-19 00:29 G 25832074.52 25832074.52 25832074.56 0.0089 0.0089

Venus 66015-04-03 00:29 G 25832635.41 25832635.52 25832635.63 0.3686 0.2137

Earth 66015-12-21 09:51 G 25832897.78 25832897.91 25832898.04 0.2642 0.1161

Moon 66015-12-21 10:48 G 25832897.82 25832897.95 25832898.08 0.2637 0.1151 *

Saturn 66016-02-11 06:00 G 25832949.70 25832949.75 25832949.82 0.0277 0.0251

Saturn 66016-05-09 19:41 G 25833038.19 25833038.32 25833038.46 0.0277 0.0107

Saturn 66016-08-06 09:07 G 25833126.74 25833126.88 25833127.03 0.0277 0.0036

Saturn 66016-11-02 22:19 G 25833215.32 25833215.43 25833215.54 0.0277 0.0176

Jupiter 66017-03-05 10:05 G 25833337.77 25833337.92 25833338.08 0.0484 0.0159

Mars 66019-04-30 09:36 G 25834123.79 25834123.90 25834124.00 0.1906 0.1213

Uranus 66019-08-01 23:46 G 25834217.46 25834217.49 25834217.55 0.0142 0.0137

Uranus 66019-10-29 06:15 G 25834305.66 25834305.76 25834305.88 0.0142 0.0110

Uranus 66020-01-25 12:43 G 25834393.90 25834394.03 25834394.18 0.0142 0.0083

Uranus 66020-04-22 19:27 G 25834482.15 25834482.31 25834482.47 0.0142 0.0055

Uranus 66020-07-20 01:55 G 25834570.41 25834570.58 25834570.75 0.0141 0.0028

Uranus 66020-10-16 08:24 G 25834658.68 25834658.85 25834659.03 0.0141 0.0001

Uranus 66021-01-12 14:53 G 25834746.95 25834747.12 25834747.30 0.0141 0.0028

Uranus 66021-04-10 21:36 G 25834835.24 25834835.40 25834835.56 0.0141 0.0056

Uranus 66021-07-08 04:19 G 25834923.54 25834923.68 25834923.82 0.0141 0.0084

Uranus 66021-10-04 10:34 G 25835011.85 25835011.94 25835012.06 0.0141 0.0113

Uranus 66021-12-31 17:31 G 25835100.22 25835100.23 25835100.26 0.0141 0.0140

Mars 66022-02-16 07:12 G 25835146.68 25835146.80 25835146.92 0.1618 0.0716

Jupiter 66023-02-08 12:58 G 25835503.91 25835504.04 25835504.17 0.0543 0.0126

Earth 66026-06-24 10:34 G 25836735.85 25836735.94 25836736.03 0.2688 0.1675

Moon 66026-06-24 11:17 G 25836735.88 25836735.97 25836736.05 0.2683 0.1794 *

Mars 66028-09-19 12:15 G 25837553.88 25837554.01 25837554.15 0.1904 0.0258

Jupiter 66028-12-22 11:03 G 25837647.84 25837647.96 25837648.08 0.0484 0.0328

Earth 66028-12-23 11:31 G 25837648.84 25837648.98 25837649.12 0.2643 0.0567

Moon 66028-12-23 11:46 G 25837648.85 25837648.99 25837649.13 0.2636 0.0682 *

Jupiter 66029-03-22 06:29 G 25837737.66 25837737.77 25837737.88 0.0485 0.0369

Saturn 66030-08-27 13:27 G 25838260.96 25838261.06 25838261.17 0.0283 0.0213

Saturn 66030-11-24 07:12 G 25838349.64 25838349.80 25838349.97 0.0282 0.0045

Saturn 66031-02-21 01:27 G 25838438.42 25838438.56 25838438.71 0.0282 0.0129

Mars 66031-07-09 15:36 G 25838577.01 25838577.15 25838577.28 0.1619 0.0069

Earth 66033-06-17 05:03 G 25839285.62 25839285.71 25839285.79 0.2691 0.1844

Moon 66033-06-17 05:17 G 25839285.64 25839285.72 25839285.81 0.2698 0.1842 *

Jupiter 66034-11-27 14:39 G 25839813.98 25839814.11 25839814.25 0.0544 0.0086

Mars 66038-02-09 15:51 G 25840984.09 25840984.16 25840984.22 0.1902 0.1640

Mars 66040-11-28 23:46 G 25842007.37 25842007.49 25842007.60 0.1620 0.0857

Jupiter 66041-01-08 07:12 G 25842047.65 25842047.80 25842047.95 0.0484 0.0196

Moon 66041-12-26 12:43 G 25842399.95 25842400.03 25842400.11 0.2639 0.2200

Earth 66041-12-26 13:41 G 25842400.01 25842400.07 25842400.13 0.2644 0.2365 *

Saturn 66045-09-26 22:05 G 25843770.30 25843770.42 25843770.55 0.0276 0.0141

Saturn 66045-12-24 11:31 G 25843858.84 25843858.98 25843859.13 0.0276 0.0002

Saturn 66046-03-23 00:43 G 25843947.41 25843947.53 25843947.65 0.0276 0.0140

Earth 66046-06-20 00:43 G 25844036.41 25844036.53 25844036.64 0.2690 0.0560

Moon 66046-06-20 01:27 G 25844036.44 25844036.56 25844036.68 0.2694 0.0494 *

Jupiter 66046-09-15 17:17 G 25844124.10 25844124.22 25844124.34 0.0545 0.0283

Jupiter 66046-12-14 06:29 G 25844213.73 25844213.77 25844213.80 0.0544 0.0524

Earth 66048-12-18 14:24 G 25844949.06 25844949.10 25844949.14 0.2641 0.2512

Moon 66048-12-18 15:51 G 25844949.10 25844949.16 25844949.21 0.2641 0.2432 *

Mars 66052-03-26 22:48 G 25846143.44 25846143.45 25846143.47 0.1617 0.1599

Jupiter 66052-10-27 07:41 G 25846357.65 25846357.82 25846357.99 0.0484 0.0019

Pluto 66054-09-28 08:39 G 25847058.82 25847058.86 25847058.95 0.0079 0.0073

Pluto 66054-12-25 10:48 G 25847146.84 25847146.95 25847147.09 0.0078 0.0051

Pluto 66055-03-23 12:43 G 25847234.89 25847235.03 25847235.20 0.0078 0.0031

Pluto 66055-06-19 14:53 G 25847322.96 25847323.12 25847323.29 0.0078 0.0009

Pluto 66055-09-15 16:48 G 25847411.03 25847411.20 25847411.37 0.0078 0.0012

Pluto 66055-12-12 18:29 G 25847499.13 25847499.27 25847499.43 0.0078 0.0033

Pluto 66056-03-09 20:24 G 25847587.24 25847587.35 25847587.48 0.0078 0.0054

Pluto 66056-06-05 22:05 G 25847675.39 25847675.42 25847675.48 0.0078 0.0075

Jupiter 66058-07-04 19:41 G 25848434.26 25848434.32 25848434.39 0.0545 0.0479

Jupiter 66058-10-02 09:22 G 25848523.79 25848523.89 25848524.00 0.0544 0.0338

Mars 66058-10-29 09:36 G 25848550.80 25848550.90 25848550.99 0.1906 0.1352

Venus 66059-03-26 22:19 G 25848699.33 25848699.43 25848699.53 0.3685 0.1167

Earth 66059-06-22 20:24 G 25848787.23 25848787.35 25848787.46 0.2689 0.0692

Moon 66059-06-22 21:07 G 25848787.27 25848787.38 25848787.49 0.2686 0.0815 *

Saturn 66060-01-14 11:46 G 25848992.97 25848992.99 25848993.03 0.0283 0.0277

Saturn 66060-04-12 05:46 G 25849081.59 25849081.74 25849081.89 0.0283 0.0109

Saturn 66060-07-09 23:46 G 25849170.33 25849170.49 25849170.65 0.0282 0.0062

Saturn 66060-10-06 18:00 G 25849259.16 25849259.25 25849259.34 0.0282 0.0237

Mars 66061-08-17 07:27 G 25849573.69 25849573.81 25849573.92 0.1618 0.0844

Earth 66061-12-21 15:51 G 25849700.02 25849700.16 25849700.29 0.2642 0.0850

Moon 66061-12-21 16:34 G 25849700.05 25849700.19 25849700.33 0.2636 0.0700 *

Uranus 66063-01-31 17:03 G 25850106.15 25850106.21 25850106.28 0.0136 0.0120

Uranus 66063-04-29 20:53 G 25850194.28 25850194.37 25850194.47 0.0136 0.0099

Uranus 66063-07-27 00:43 G 25850282.42 25850282.53 25850282.65 0.0137 0.0079

Uranus 66063-10-23 04:34 G 25850370.56 25850370.69 25850370.82 0.0137 0.0058

Uranus 66064-01-19 08:24 G 25850458.71 25850458.85 25850458.99 0.0137 0.0038

Uranus 66064-04-16 12:15 G 25850546.87 25850547.01 25850547.15 0.0137 0.0018

Uranus 66064-07-13 16:05 G 25850635.02 25850635.17 25850635.31 0.0137 0.0005

Jupiter 66064-08-15 08:39 G 25850667.70 25850667.86 25850668.02 0.0484 0.0149

Venus 66064-10-09 15:22 G 25850723.04 25850723.14 25850723.23 0.3685 0.1777

Uranus 66064-10-09 19:41 G 25850723.18 25850723.32 25850723.46 0.0137 0.0023 *

Uranus 66065-01-05 23:17 G 25850811.34 25850811.47 25850811.61 0.0137 0.0043

Uranus 66065-04-04 02:53 G 25850899.51 25850899.62 25850899.76 0.0137 0.0063

Uranus 66065-07-01 06:43 G 25850987.67 25850987.78 25850987.90 0.0137 0.0083

Uranus 66065-09-27 10:19 G 25851075.84 25851075.93 25851076.03 0.0137 0.0103

Uranus 66065-12-24 13:55 G 25851164.03 25851164.08 25851164.15 0.0137 0.0122

Venus 66066-04-23 22:48 G 25851284.33 25851284.45 25851284.57 0.3685 0.1562

Mars 66068-03-20 12:43 G 25851980.89 25851981.03 25851981.17 0.1904 0.0074

Jupiter 66070-07-21 11:46 G 25852833.86 25852833.99 25852834.12 0.0544 0.0138

Mars 66071-01-07 15:51 G 25853004.02 25853004.16 25853004.30 0.1619 0.0071

Earth 66072-06-24 15:36 G 25853538.07 25853538.15 25853538.23 0.2688 0.1899

Moon 66072-06-24 16:05 G 25853538.08 25853538.17 25853538.25 0.2682 0.1870 *

Moon 66074-12-24 17:31 G 25854451.09 25854451.23 25854451.37 0.2637 0.0809

Earth 66074-12-24 17:31 G 25854451.09 25854451.23 25854451.36 0.2643 0.0893 *

Saturn 66075-02-13 23:03 G 25854502.35 25854502.46 25854502.57 0.0276 0.0189

Saturn 66075-05-13 12:29 G 25854590.88 25854591.02 25854591.17 0.0277 0.0046

Saturn 66075-08-10 01:41 G 25854679.44 25854679.57 25854679.71 0.0277 0.0096

Saturn 66075-11-06 14:53 G 25854768.04 25854768.12 25854768.19 0.0277 0.0234

Jupiter 66076-06-03 09:22 G 25854977.77 25854977.89 25854978.02 0.0484 0.0320

Jupiter 66076-09-01 05:03 G 25855067.61 25855067.71 25855067.81 0.0485 0.0379

Mars 66077-08-10 15:51 G 25855411.08 25855411.16 25855411.24 0.1902 0.1494

Earth 66079-06-18 10:05 G 25856087.82 25856087.92 25856088.01 0.2691 0.1600

Moon 66079-06-18 10:34 G 25856087.84 25856087.94 25856088.03 0.2698 0.1505 *

Mars 66080-05-29 23:46 G 25856434.37 25856434.49 25856434.62 0.1620 0.0728

Jupiter 66082-05-09 13:55 G 25857143.94 25857144.08 25857144.21 0.0544 0.0068

Jupiter 66088-06-20 05:31 G 25859377.58 25859377.73 25859377.88 0.0484 0.0203

Saturn 66089-08-30 07:12 G 25859813.67 25859813.80 25859813.95 0.0283 0.0146

Mars 66089-10-20 07:55 G 25859864.79 25859864.83 25859864.87 0.1621 0.1535

Saturn 66089-11-27 01:12 G 25859902.39 25859902.55 25859902.72 0.0283 0.0026

Saturn 66090-02-23 19:27 G 25859991.20 25859991.31 25859991.43 0.0282 0.0199

Neptune 66092-01-29 13:55 G 25860696.08 25860696.08 25860696.13 0.0088 0.0087

Neptune 66092-04-26 17:03 G 25860784.13 25860784.21 25860784.29 0.0088 0.0077

Earth 66092-06-20 05:46 G 25860838.62 25860838.74 25860838.86 0.2690 0.0324

Moon 66092-06-20 06:29 G 25860838.66 25860838.77 25860838.89 0.2692 0.0272 *

Neptune 66092-07-23 19:27 G 25860872.22 25860872.31 25860872.43 0.0088 0.0068

Neptune 66092-10-19 22:05 G 25860960.31 25860960.42 25860960.56 0.0088 0.0059

Neptune 66093-01-16 00:58 G 25861048.41 25861048.54 25861048.69 0.0088 0.0049

Neptune 66093-04-14 03:36 G 25861136.51 25861136.65 25861136.82 0.0088 0.0040

Neptune 66093-07-11 06:29 G 25861224.61 25861224.77 25861224.94 0.0088 0.0030

Neptune 66093-10-07 09:07 G 25861312.72 25861312.88 25861313.06 0.0088 0.0021

Neptune 66094-01-03 12:00 G 25861400.83 25861401.00 25861401.18 0.0088 0.0011

Jupiter 66094-02-25 15:22 G 25861454.02 25861454.14 25861454.26 0.0545 0.0286

Neptune 66094-04-01 14:39 G 25861488.94 25861489.11 25861489.29 0.0088 0.0003

Jupiter 66094-05-26 04:34 G 25861543.65 25861543.69 25861543.73 0.0544 0.0520

Neptune 66094-06-28 17:31 G 25861577.05 25861577.23 25861577.41 0.0088 0.0008

Neptune 66094-09-24 20:10 G 25861665.17 25861665.34 25861665.52 0.0088 0.0018

Earth 66094-12-19 20:10 G 25861751.27 25861751.34 25861751.42 0.2641 0.2208

Moon 66094-12-19 21:22 G 25861751.31 25861751.39 25861751.48 0.2639 0.2081 *

Neptune 66094-12-21 23:03 G 25861753.29 25861753.46 25861753.63 0.0088 0.0027

Neptune 66095-03-20 01:41 G 25861841.42 25861841.57 25861841.74 0.0088 0.0037

Neptune 66095-06-16 04:19 G 25861929.54 25861929.68 25861929.84 0.0088 0.0047

Neptune 66095-09-12 07:27 G 25862017.68 25862017.81 25862017.95 0.0088 0.0056

Neptune 66095-12-09 10:05 G 25862105.81 25862105.92 25862106.05 0.0088 0.0066

Neptune 66096-03-06 12:43 G 25862193.96 25862194.03 25862194.14 0.0088 0.0077

Neptune 66096-06-02 15:36 G 25862282.13 25862282.15 25862282.20 0.0088 0.0086

Mars 66098-04-29 09:51 G 25862977.83 25862977.91 25862977.99 0.1906 0.1530

Jupiter 66100-04-09 06:29 G 25863687.60 25863687.77 25863687.93 0.0484 0.0033

Mars 66101-02-16 07:41 G 25864000.71 25864000.82 25864000.93 0.1618 0.0968

Uranus 66103-08-23 07:41 G 25864918.75 25864918.82 25864918.90 0.0142 0.0127

Uranus 66103-11-19 14:10 G 25865006.97 25865007.09 25865007.21 0.0142 0.0100

Uranus 66104-02-15 20:24 G 25865095.21 25865095.35 25865095.50 0.0142 0.0073

Uranus 66104-05-14 02:53 G 25865183.46 25865183.62 25865183.79 0.0142 0.0046

Saturn 66104-07-04 01:27 G 25865234.48 25865234.56 25865234.65 0.0276 0.0222

Uranus 66104-08-10 09:22 G 25865271.72 25865271.89 25865272.07 0.0141 0.0018

Saturn 66104-09-30 15:07 G 25865322.99 25865323.13 25865323.27 0.0276 0.0079

Uranus 66104-11-06 16:05 G 25865359.99 25865360.17 25865360.34 0.0141 0.0010

Saturn 66104-12-28 04:19 G 25865411.54 25865411.68 25865411.82 0.0276 0.0061

Uranus 66105-02-02 22:34 G 25865448.27 25865448.44 25865448.61 0.0141 0.0037

Saturn 66105-03-26 17:17 G 25865500.13 25865500.22 25865500.32 0.0276 0.0200

Uranus 66105-05-02 05:03 G 25865536.56 25865536.71 25865536.87 0.0141 0.0065

Earth 66105-06-24 01:27 G 25865589.45 25865589.56 25865589.67 0.2689 0.0922

Moon 66105-06-24 02:10 G 25865589.48 25865589.59 25865589.70 0.2686 0.0971 *

Uranus 66105-07-29 11:31 G 25865624.86 25865624.98 25865625.13 0.0141 0.0093

Uranus 66105-10-25 18:15 G 25865713.18 25865713.26 25865713.36 0.0141 0.0121

Jupiter 66105-12-15 17:31 G 25865764.18 25865764.23 25865764.30 0.0545 0.0487

Jupiter 66106-03-15 07:27 G 25865853.70 25865853.81 25865853.92 0.0544 0.0332

Mars 66107-09-20 12:29 G 25866407.89 25866408.02 25866408.16 0.1904 0.0083

Earth 66107-12-23 21:36 G 25866502.26 25866502.40 25866502.54 0.2642 0.0535

Moon 66107-12-23 22:19 G 25866502.29 25866502.43 25866502.57 0.2636 0.0514 *

Venus 66110-04-18 02:53 G 25867348.56 25867348.62 25867348.68 0.3686 0.3054

Mars 66110-07-09 16:05 G 25867431.03 25867431.17 25867431.30 0.1619 0.0202

Jupiter 66112-01-27 06:58 G 25867997.64 25867997.79 25867997.95 0.0484 0.0142

Moon 66112-06-16 19:12 G 25868139.27 25868139.30 25868139.32 0.2699 0.2607

Earth 66112-06-16 19:12 G 25868139.29 25868139.30 25868139.31 0.2692 0.2661 *

Venus 66115-11-01 20:10 G 25869372.23 25869372.34 25869372.45 0.3685 0.0098

Mars 66117-02-09 16:05 G 25869838.08 25869838.17 25869838.27 0.1903 0.1332

Jupiter 66118-01-01 10:19 G 25870163.80 25870163.93 25870164.06 0.0544 0.0145

Earth 66118-06-26 20:39 G 25870340.29 25870340.36 25870340.43 0.2688 0.2124

Moon 66118-06-26 20:53 G 25870340.30 25870340.37 25870340.43 0.2681 0.2183 *

Saturn 66119-01-18 05:46 G 25870545.63 25870545.74 25870545.85 0.0283 0.0210

Saturn 66119-04-16 23:31 G 25870634.32 25870634.48 25870634.64 0.0283 0.0041

Saturn 66119-07-14 17:31 G 25870723.09 25870723.23 25870723.38 0.0282 0.0131

Mars 66119-11-30 00:15 G 25870861.38 25870861.51 25870861.64 0.1620 0.0591

Moon 66120-12-25 23:03 G 25871253.34 25871253.46 25871253.59 0.2637 0.1265

Earth 66120-12-25 23:17 G 25871253.35 25871253.47 25871253.60 0.2643 0.1219 *

Venus 66121-05-17 12:58 G 25871395.98 25871396.04 25871396.11 0.3684 0.2860

Venus 66122-11-29 22:48 G 25871957.31 25871957.45 25871957.59 0.3686 0.0402

Jupiter 66123-11-15 08:10 G 25872307.72 25872307.84 25872307.97 0.0484 0.0308

Jupiter 66124-02-13 03:36 G 25872397.55 25872397.65 25872397.75 0.0485 0.0390

Earth 66125-06-19 15:07 G 25872890.03 25872890.13 25872890.23 0.2691 0.1358

Moon 66125-06-19 15:36 G 25872890.05 25872890.15 25872890.25 0.2697 0.1372 *

Mars 66129-04-21 08:10 G 25874291.77 25874291.84 25874291.90 0.1621 0.1402

Jupiter 66129-10-20 12:43 G 25874473.89 25874474.03 25874474.17 0.0544 0.0055

Saturn 66133-11-21 01:55 G 25875966.57 25875966.58 25875966.60 0.0276 0.0274

Saturn 66134-02-17 15:36 G 25876055.02 25876055.15 25876055.28 0.0276 0.0130

Saturn 66134-05-17 05:03 G 25876143.57 25876143.71 25876143.86 0.0277 0.0012

Saturn 66134-08-13 18:15 G 25876232.14 25876232.26 25876232.38 0.0277 0.0152

Jupiter 66135-09-03 09:07 G 25876617.86 25876617.88 25876617.91 0.0484 0.0475

Jupiter 66135-12-02 04:05 G 25876707.52 25876707.67 25876707.82 0.0485 0.0214

Mars 66137-10-29 10:05 G 25877404.86 25877404.92 25877404.98 0.1906 0.1684

Earth 66138-06-22 10:48 G 25877640.84 25877640.95 25877641.07 0.2690 0.0116

Moon 66138-06-22 11:46 G 25877640.87 25877640.99 25877641.11 0.2690 0.0057 *

Mars 66140-08-17 07:55 G 25878427.73 25878427.83 25878427.93 0.1618 0.1091

Earth 66140-12-21 02:10 G 25878553.49 25878553.59 25878553.69 0.2641 0.1894

Moon 66140-12-21 03:22 G 25878553.53 25878553.64 25878553.74 0.2638 0.1755 *

Jupiter 66141-08-08 14:39 G 25878783.99 25878784.11 25878784.23 0.0544 0.0263

Jupiter 66141-11-06 03:51 G 25878873.65 25878873.66 25878873.67 0.0543 0.0541

Uranus 66146-11-25 20:10 G 25880719.33 25880719.34 25880719.37 0.0136 0.0135

Uranus 66147-02-22 00:15 G 25880807.43 25880807.51 25880807.59 0.0136 0.0114

Mars 66147-03-21 12:58 G 25880834.90 25880835.04 25880835.18 0.1904 0.0225

Uranus 66147-05-21 04:05 G 25880895.57 25880895.67 25880895.78 0.0136 0.0093

Uranus 66147-08-17 07:55 G 25880983.71 25880983.83 25880983.95 0.0137 0.0073

Jupiter 66147-09-20 04:48 G 25881017.54 25881017.70 25881017.87 0.0484 0.0044

Uranus 66147-11-13 11:46 G 25881071.86 25881071.99 25881072.12 0.0137 0.0052

Uranus 66148-02-09 15:36 G 25881160.01 25881160.15 25881160.29 0.0137 0.0032

Uranus 66148-05-07 19:27 G 25881248.16 25881248.31 25881248.45 0.0137 0.0012

Saturn 66148-06-06 06:43 G 25881277.72 25881277.78 25881277.86 0.0283 0.0252

Uranus 66148-08-03 23:03 G 25881336.32 25881336.46 25881336.60 0.0137 0.0009

Saturn 66148-09-03 00:29 G 25881366.37 25881366.52 25881366.68 0.0283 0.0084

Uranus 66148-10-31 02:53 G 25881424.48 25881424.62 25881424.76 0.0137 0.0028

Saturn 66148-11-30 18:29 G 25881455.12 25881455.27 25881455.43 0.0283 0.0089

Uranus 66149-01-27 06:29 G 25881512.64 25881512.77 25881512.91 0.0137 0.0049

Saturn 66149-02-27 12:58 G 25881543.99 25881544.04 25881544.10 0.0282 0.0263

Uranus 66149-04-25 10:19 G 25881600.81 25881600.93 25881601.05 0.0137 0.0068

Uranus 66149-07-22 13:55 G 25881688.98 25881689.08 25881689.19 0.0137 0.0088

Uranus 66149-10-18 17:31 G 25881777.15 25881777.23 25881777.32 0.0137 0.0108

Mars 66150-01-07 16:05 G 25881858.04 25881858.17 25881858.31 0.1619 0.0327

Uranus 66150-01-14 20:53 G 25881865.34 25881865.37 25881865.43 0.0137 0.0129

Earth 66151-06-25 06:29 G 25882391.66 25882391.77 25882391.87 0.2689 0.1151

Moon 66151-06-25 06:58 G 25882391.69 25882391.79 25882391.90 0.2686 0.1236 *

Jupiter 66153-05-27 15:51 G 25883094.10 25883094.16 25883094.22 0.0545 0.0487

Jupiter 66153-08-25 05:46 G 25883183.63 25883183.74 25883183.84 0.0544 0.0332

Earth 66153-12-24 03:36 G 25883304.50 25883304.65 25883304.79 0.2642 0.0225

Moon 66153-12-24 04:05 G 25883304.53 25883304.67 25883304.82 0.2636 0.0123 *

Mars 66156-08-10 16:05 G 25884265.07 25884265.17 25884265.28 0.1902 0.1186

Earth 66158-06-18 00:15 G 25884941.46 25884941.51 25884941.56 0.2692 0.2412

Moon 66158-06-18 00:29 G 25884941.47 25884941.52 25884941.56 0.2699 0.2475 *

Mars 66159-05-31 00:15 G 25885288.38 25885288.51 25885288.65 0.1620 0.0467

Jupiter 66159-07-09 06:00 G 25885327.59 25885327.75 25885327.91 0.0484 0.0125

Saturn 66163-07-07 18:15 G 25886787.14 25886787.26 25886787.38 0.0276 0.0162

Saturn 66163-10-04 07:41 G 25886875.67 25886875.82 25886875.97 0.0276 0.0020

Saturn 66163-12-31 20:53 G 25886964.24 25886964.37 25886964.50 0.0276 0.0119

Saturn 66164-03-29 09:51 G 25887052.86 25887052.91 25887052.96 0.0276 0.0256

Moon 66164-06-27 01:41 G 25887142.52 25887142.57 25887142.63 0.2680 0.2318

Earth 66164-06-27 01:41 G 25887142.52 25887142.57 25887142.62 0.2688 0.2347 *

Jupiter 66165-06-13 08:24 G 25887493.72 25887493.85 25887493.98 0.0544 0.0140

Venus 66166-11-23 00:43 G 25888021.44 25888021.53 25888021.63 0.3686 0.1923

Moon 66166-12-27 04:48 G 25888055.58 25888055.70 25888055.82 0.2637 0.1425

Earth 66166-12-27 05:17 G 25888055.60 25888055.72 25888055.84 0.2643 0.1543 *

Mars 66168-10-20 08:24 G 25888718.77 25888718.85 25888718.93 0.1621 0.1266

Jupiter 66171-04-27 06:43 G 25889637.65 25889637.78 25889637.91 0.0484 0.0297

Earth 66171-06-20 20:10 G 25889692.24 25889692.34 25889692.45 0.2691 0.1117

Moon 66171-06-20 20:53 G 25889692.26 25889692.37 25889692.48 0.2696 0.0991 *

Jupiter 66171-07-26 01:55 G 25889727.50 25889727.58 25889727.68 0.0484 0.0401

Venus 66172-06-07 18:00 G 25890045.14 25890045.25 25890045.35 0.3685 0.1062

Neptune 66173-02-25 11:03 G 25890307.96 25890307.96 25890308.00 0.0089 0.0089

Neptune 66173-05-24 13:12 G 25890395.99 25890396.05 25890396.11 0.0089 0.0080

Neptune 66173-08-20 14:39 G 25890484.04 25890484.11 25890484.21 0.0089 0.0072

Neptune 66173-11-16 16:19 G 25890572.09 25890572.18 25890572.30 0.0089 0.0064

Venus 66173-12-20 21:22 G 25890606.32 25890606.39 25890606.45 0.3685 0.3187

Neptune 66174-02-12 18:15 G 25890660.15 25890660.26 25890660.38 0.0089 0.0055

Neptune 66174-05-11 19:55 G 25890748.22 25890748.33 25890748.46 0.0089 0.0047

Neptune 66174-08-07 21:51 G 25890836.28 25890836.41 25890836.54 0.0089 0.0038

Neptune 66174-11-03 23:31 G 25890924.35 25890924.48 25890924.62 0.0089 0.0030

Neptune 66175-01-31 01:12 G 25891012.41 25891012.55 25891012.69 0.0089 0.0021

Neptune 66175-04-29 02:53 G 25891100.48 25891100.62 25891100.76 0.0089 0.0013

Neptune 66175-07-26 04:34 G 25891188.55 25891188.69 25891188.83 0.0089 0.0005

Neptune 66175-10-22 06:15 G 25891276.62 25891276.76 25891276.90 0.0089 0.0003

Neptune 66176-01-18 07:55 G 25891364.69 25891364.83 25891364.97 0.0089 0.0012

Neptune 66176-04-15 09:36 G 25891452.76 25891452.90 25891453.04 0.0089 0.0020

Neptune 66176-07-12 11:03 G 25891540.83 25891540.96 25891541.10 0.0089 0.0028

Neptune 66176-10-08 12:43 G 25891628.91 25891629.03 25891629.17 0.0089 0.0036

Neptune 66177-01-04 14:24 G 25891716.98 25891717.10 25891717.23 0.0089 0.0044

Jupiter 66177-04-01 11:17 G 25891803.83 25891803.97 25891804.11 0.0545 0.0049

Neptune 66177-04-02 15:51 G 25891805.06 25891805.16 25891805.29 0.0089 0.0053

Mars 66177-04-29 10:19 G 25891831.89 25891831.93 25891831.96 0.1906 0.1835

Neptune 66177-06-29 17:31 G 25891893.14 25891893.23 25891893.35 0.0089 0.0060

Neptune 66177-09-25 19:12 G 25891981.22 25891981.30 25891981.40 0.0089 0.0068

Neptune 66177-12-22 20:39 G 25892069.30 25892069.36 25892069.45 0.0089 0.0077

Saturn 66178-01-20 23:03 G 25892098.32 25892098.46 25892098.60 0.0283 0.0148

Neptune 66178-03-20 22:19 G 25892157.40 25892157.43 25892157.49 0.0089 0.0084

Saturn 66178-04-19 17:03 G 25892187.04 25892187.21 25892187.37 0.0283 0.0023

Saturn 66178-07-17 11:17 G 25892275.85 25892275.97 25892276.09 0.0282 0.0196

Venus 66179-07-06 22:48 G 25892630.35 25892630.45 25892630.55 0.3686 0.2389

Mars 66180-02-16 08:10 G 25892854.75 25892854.84 25892854.92 0.1618 0.1219

Jupiter 66183-02-13 07:55 G 25893947.79 25893947.83 25893947.88 0.0484 0.0461

Jupiter 66183-05-14 02:53 G 25894037.47 25894037.62 25894037.77 0.0484 0.0227

Earth 66184-06-22 15:51 G 25894443.05 25894443.16 25894443.28 0.2690 0.0169

Moon 66184-06-22 16:48 G 25894443.08 25894443.20 25894443.32 0.2690 0.0187 *

Mars 66186-09-19 13:12 G 25895261.92 25895262.05 25895262.18 0.1904 0.0389

Earth 66186-12-22 07:55 G 25895355.72 25895355.83 25895355.94 0.2641 0.1587

Moon 66186-12-22 09:07 G 25895355.76 25895355.88 25895355.99 0.2637 0.1538 *

Uranus 66187-09-12 15:07 G 25895620.05 25895620.13 25895620.24 0.0142 0.0118

Uranus 66187-12-09 21:36 G 25895708.28 25895708.40 25895708.54 0.0142 0.0091

Uranus 66188-03-07 04:05 G 25895796.52 25895796.67 25895796.83 0.0142 0.0063

Uranus 66188-06-03 10:34 G 25895884.78 25895884.94 25895885.11 0.0142 0.0036

Uranus 66188-08-30 17:03 G 25895973.04 25895973.21 25895973.39 0.0142 0.0009

Uranus 66188-11-26 23:46 G 25896061.31 25896061.49 25896061.66 0.0141 0.0019

Jupiter 66189-01-18 13:41 G 25896113.95 25896114.07 25896114.19 0.0544 0.0249

Uranus 66189-02-23 06:15 G 25896149.60 25896149.76 25896149.93 0.0141 0.0047

Uranus 66189-05-22 12:43 G 25896237.89 25896238.03 25896238.19 0.0141 0.0075

Mars 66189-07-08 16:34 G 25896285.05 25896285.19 25896285.32 0.1619 0.0454

Uranus 66189-08-18 19:12 G 25896326.20 25896326.30 25896326.44 0.0141 0.0104

Uranus 66189-11-15 01:55 G 25896414.53 25896414.58 25896414.66 0.0141 0.0132

Saturn 66192-11-23 18:15 G 25897519.18 25897519.26 25897519.36 0.0276 0.0217

Saturn 66193-02-20 07:55 G 25897607.69 25897607.83 25897607.98 0.0276 0.0074

Saturn 66193-05-19 21:22 G 25897696.25 25897696.39 25897696.53 0.0276 0.0067

Saturn 66193-08-16 10:19 G 25897784.84 25897784.93 25897785.03 0.0277 0.0206

Jupiter 66195-03-02 03:36 G 25898347.48 25898347.65 25898347.81 0.0484 0.0053

Mars 66196-02-09 16:19 G 25898692.07 25898692.18 25898692.30 0.1902 0.1028

Earth 66197-06-25 11:31 G 25899193.88 25899193.98 25899194.08 0.2689 0.1379

Moon 66197-06-25 12:00 G 25899193.90 25899194.00 25899194.10 0.2684 0.1451 *

Mars 66198-11-29 00:29 G 25899715.39 25899715.52 25899715.66 0.1620 0.0339

Earth 66199-12-25 09:22 G 25900106.75 25900106.89 25900107.04 0.2642 0.0128

Moon 66199-12-25 09:51 G 25900106.77 25900106.91 25900107.06 0.2637 0.0152 *

Jupiter 66200-11-07 15:36 G 25900424.08 25900424.15 25900424.22 0.0544 0.0458

Jupiter 66201-02-05 05:17 G 25900513.62 25900513.72 25900513.82 0.0544 0.0358

Moon 66204-06-19 05:31 G 25901743.66 25901743.73 25901743.81 0.2699 0.2098

Earth 66204-06-19 05:31 G 25901743.66 25901743.73 25901743.80 0.2692 0.2167 *

Jupiter 66206-12-20 04:34 G 25902657.53 25902657.69 25902657.85 0.0484 0.0114

Saturn 66207-06-10 23:46 G 25902830.37 25902830.49 25902830.60 0.0283 0.0194

Saturn 66207-09-07 17:31 G 25902919.07 25902919.23 25902919.39 0.0283 0.0025

Saturn 66207-12-05 11:46 G 25903007.85 25903007.99 25903008.13 0.0283 0.0148

Mars 66208-04-21 08:39 G 25903145.76 25903145.86 25903145.96 0.1621 0.1136

Earth 66210-06-29 06:43 G 25903944.75 25903944.78 25903944.81 0.2688 0.2571

Moon 66210-06-29 06:43 G 25903944.76 25903944.78 25903944.81 0.2680 0.2589 *

Jupiter 66212-11-24 06:43 G 25904823.65 25904823.78 25904823.92 0.0544 0.0144

Moon 66212-12-28 10:48 G 25904857.85 25904857.95 25904858.05 0.2637 0.1866

Earth 66212-12-28 11:17 G 25904857.87 25904857.97 25904858.07 0.2644 0.1878 *

Pluto 66214-10-26 19:55 G 25905525.27 25905525.33 25905525.40 0.0065 0.0057

Pluto 66215-01-22 20:24 G 25905613.26 25905613.35 25905613.47 0.0065 0.0047

Pluto 66215-04-20 21:07 G 25905701.27 25905701.38 25905701.52 0.0065 0.0036

Pluto 66215-07-17 22:05 G 25905789.28 25905789.42 25905789.56 0.0065 0.0025

Pluto 66215-10-13 22:48 G 25905877.30 25905877.45 25905877.59 0.0065 0.0015

Pluto 66216-01-09 23:31 G 25905965.33 25905965.48 25905965.63 0.0065 0.0004

Pluto 66216-04-07 00:15 G 25906053.36 25906053.51 25906053.65 0.0066 0.0007

Pluto 66216-07-04 00:43 G 25906141.39 25906141.53 25906141.68 0.0066 0.0018

Pluto 66216-09-30 01:12 G 25906229.43 25906229.55 25906229.70 0.0066 0.0029

Pluto 66216-12-27 01:55 G 25906317.48 25906317.58 25906317.71 0.0066 0.0040

Pluto 66217-03-25 02:53 G 25906405.53 25906405.62 25906405.72 0.0066 0.0050

Pluto 66217-06-21 03:36 G 25906493.60 25906493.65 25906493.70 0.0066 0.0061

Earth 66217-06-22 01:27 G 25906494.45 25906494.56 25906494.67 0.2691 0.0875

Moon 66217-06-22 02:10 G 25906494.48 25906494.59 25906494.70 0.2694 0.0867 *

Jupiter 66218-10-08 05:46 G 25906967.61 25906967.74 25906967.88 0.0484 0.0279

Jupiter 66219-01-06 01:12 G 25907057.47 25907057.55 25907057.63 0.0484 0.0419

Mars 66219-08-18 08:10 G 25907281.77 25907281.84 25907281.92 0.1618 0.1339

Saturn 66222-04-13 20:53 G 25908251.32 25908251.37 25908251.44 0.0275 0.0248

Saturn 66222-07-11 10:48 G 25908339.81 25908339.95 25908340.08 0.0276 0.0104

Saturn 66222-10-08 00:00 G 25908428.36 25908428.50 25908428.65 0.0276 0.0038

Saturn 66223-01-04 13:12 G 25908516.94 25908517.05 25908517.16 0.0276 0.0175

Venus 66223-06-30 22:34 G 25908694.34 25908694.44 25908694.55 0.3686 0.0797

Jupiter 66224-09-12 09:22 G 25909133.75 25909133.89 25909134.03 0.0545 0.0054

Mars 66226-03-21 13:12 G 25909688.92 25909689.05 25909689.18 0.1904 0.0530

Mars 66229-01-07 16:34 G 25910712.07 25910712.19 25910712.32 0.1619 0.0578

Venus 66229-01-13 15:36 G 25910718.07 25910718.15 25910718.24 0.3685 0.2160

Earth 66230-06-24 21:07 G 25911245.26 25911245.38 25911245.49 0.2690 0.0395

Moon 66230-06-24 21:51 G 25911245.30 25911245.41 25911245.53 0.2690 0.0541 *

Jupiter 66230-07-27 06:43 G 25911277.73 25911277.78 25911277.84 0.0484 0.0448

Venus 66230-07-28 21:22 G 25911279.26 25911279.39 25911279.52 0.3685 0.1254

Jupiter 66230-10-25 01:27 G 25911367.42 25911367.56 25911367.71 0.0484 0.0240

Uranus 66230-12-17 03:51 G 25911420.61 25911420.66 25911420.71 0.0136 0.0127

Uranus 66231-03-15 07:41 G 25911508.73 25911508.82 25911508.91 0.0136 0.0106

Uranus 66231-06-11 11:31 G 25911596.87 25911596.98 25911597.09 0.0136 0.0086

Uranus 66231-09-07 15:22 G 25911685.02 25911685.14 25911685.27 0.0137 0.0065

Uranus 66231-12-04 19:12 G 25911773.17 25911773.30 25911773.44 0.0137 0.0045

Uranus 66232-03-01 23:03 G 25911861.32 25911861.46 25911861.60 0.0137 0.0025

Uranus 66232-05-29 02:53 G 25911949.47 25911949.62 25911949.76 0.0137 0.0005

Uranus 66232-08-25 06:29 G 25912037.63 25912037.77 25912037.91 0.0137 0.0016

Uranus 66232-11-21 10:19 G 25912125.79 25912125.93 25912126.07 0.0137 0.0036

Earth 66232-12-23 13:55 G 25912157.95 25912158.08 25912158.20 0.2641 0.1278

Moon 66232-12-23 14:53 G 25912157.99 25912158.12 25912158.25 0.2637 0.1098 *

Uranus 66233-02-17 13:55 G 25912213.96 25912214.08 25912214.21 0.0137 0.0056

Uranus 66233-05-16 17:31 G 25912302.12 25912302.23 25912302.35 0.0137 0.0076

Uranus 66233-08-12 21:22 G 25912390.29 25912390.39 25912390.49 0.0137 0.0096

Uranus 66233-11-09 00:58 G 25912478.47 25912478.54 25912478.62 0.0137 0.0115

Uranus 66234-02-05 04:34 G 25912566.68 25912566.69 25912566.72 0.0137 0.0135

Mars 66235-08-11 16:34 G 25913119.07 25913119.19 25913119.31 0.1903 0.0872

Jupiter 66236-07-01 12:00 G 25913443.88 25913444.00 25913444.13 0.0545 0.0246

Saturn 66236-10-27 22:19 G 25913562.37 25913562.43 25913562.50 0.0283 0.0256

Saturn 66237-01-24 16:05 G 25913651.02 25913651.17 25913651.33 0.0283 0.0088

Saturn 66237-04-23 10:05 G 25913739.76 25913739.92 25913740.08 0.0283 0.0083

Saturn 66237-07-21 04:19 G 25913828.62 25913828.68 25913828.75 0.0283 0.0258

Mars 66238-05-31 00:58 G 25914142.40 25914142.54 25914142.67 0.1620 0.0203

Jupiter 66242-08-13 02:24 G 25915677.44 25915677.60 25915677.77 0.0484 0.0069

Earth 66243-06-27 16:19 G 25915996.09 25915996.18 25915996.28 0.2689 0.1608

Moon 66243-06-27 16:48 G 25915996.11 25915996.20 25915996.30 0.2683 0.1603 *

Moon 66245-12-26 15:22 G 25916909.00 25916909.14 25916909.29 0.2636 0.0415

Earth 66245-12-26 15:22 G 25916909.00 25916909.14 25916909.28 0.2642 0.0433 *

Mars 66247-10-21 08:53 G 25917572.76 25917572.87 25917572.98 0.1621 0.1005

Jupiter 66248-04-19 14:24 G 25917754.02 25917754.10 25917754.18 0.0545 0.0445

Jupiter 66248-07-18 04:05 G 25917843.57 25917843.67 25917843.77 0.0544 0.0372

Earth 66250-06-20 10:34 G 25918545.86 25918545.94 25918546.02 0.2692 0.1919

Moon 66250-06-20 10:48 G 25918545.87 25918545.95 25918546.03 0.2699 0.1948 *

Saturn 66251-11-28 10:48 G 25919071.84 25919071.95 25919072.07 0.0276 0.0160

Saturn 66252-02-25 00:15 G 25919160.37 25919160.51 25919160.66 0.0276 0.0020

Saturn 66252-05-23 13:27 G 25919248.94 25919249.06 25919249.19 0.0276 0.0122

Saturn 66252-08-20 02:24 G 25919337.56 25919337.60 25919337.65 0.0277 0.0259

Jupiter 66254-06-01 03:22 G 25919987.47 25919987.64 25919987.80 0.0484 0.0103

Neptune 66256-10-27 12:29 G 25920866.98 25920867.02 25920867.08 0.0088 0.0083

Neptune 66257-01-23 14:53 G 25920955.05 25920955.12 25920955.23 0.0088 0.0074

Neptune 66257-04-21 18:00 G 25921043.13 25921043.25 25921043.37 0.0088 0.0064

Neptune 66257-07-18 20:24 G 25921131.23 25921131.35 25921131.50 0.0088 0.0055

Neptune 66257-10-14 23:03 G 25921219.33 25921219.46 25921219.62 0.0088 0.0046

Neptune 66258-01-11 01:55 G 25921307.43 25921307.58 25921307.74 0.0088 0.0036

Neptune 66258-04-09 04:34 G 25921395.53 25921395.69 25921395.86 0.0088 0.0027

Neptune 66258-07-06 07:27 G 25921483.64 25921483.81 25921483.98 0.0088 0.0017

Neptune 66258-10-02 10:05 G 25921571.75 25921571.92 25921572.10 0.0088 0.0008

Neptune 66258-12-29 12:58 G 25921659.86 25921660.04 25921660.21 0.0088 0.0002

Moon 66258-12-29 16:34 G 25921660.11 25921660.19 25921660.28 0.2638 0.2112 *

Earth 66258-12-29 17:17 G 25921660.14 25921660.22 25921660.30 0.2644 0.2211 *

Mars 66259-02-16 08:24 G 25921708.80 25921708.85 25921708.91 0.1618 0.1462

Neptune 66259-03-27 15:36 G 25921747.98 25921748.15 25921748.33 0.0088 0.0011

Neptune 66259-06-23 18:15 G 25921836.10 25921836.26 25921836.44 0.0088 0.0021

Neptune 66259-09-19 20:53 G 25921924.22 25921924.37 25921924.55 0.0088 0.0031

Neptune 66259-12-17 00:00 G 25922012.34 25922012.50 25922012.66 0.0088 0.0040

Neptune 66260-03-14 02:39 G 25922100.47 25922100.61 25922100.76 0.0088 0.0050

Jupiter 66260-05-06 06:29 G 25922153.64 25922153.77 25922153.90 0.0544 0.0172

Neptune 66260-06-10 05:17 G 25922188.60 25922188.72 25922188.86 0.0088 0.0060

Neptune 66260-09-06 07:55 G 25922276.74 25922276.83 25922276.96 0.0088 0.0070

Neptune 66260-12-03 11:17 G 25922364.89 25922364.97 25922365.04 0.0088 0.0079

Earth 66263-06-23 06:29 G 25923296.65 25923296.77 25923296.88 0.2691 0.0635

Moon 66263-06-23 07:12 G 25923296.69 25923296.80 25923296.92 0.2693 0.0484 *

Mars 66265-09-19 13:27 G 25924115.93 25924116.06 25924116.19 0.1904 0.0689

Earth 66265-12-21 18:29 G 25924209.26 25924209.27 25924209.29 0.2640 0.2616

Moon 66265-12-21 19:41 G 25924209.27 25924209.32 25924209.38 0.2639 0.2409 *

Jupiter 66266-03-20 04:34 G 25924297.55 25924297.69 25924297.83 0.0484 0.0266

Saturn 66266-06-13 16:05 G 25924383.04 25924383.17 25924383.32 0.0283 0.0139

Jupiter 66266-06-17 23:46 G 25924387.42 25924387.49 25924387.57 0.0485 0.0432

Saturn 66266-09-10 10:05 G 25924471.76 25924471.92 25924472.09 0.0283 0.0032

Saturn 66266-12-08 04:19 G 25924560.57 25924560.68 25924560.80 0.0283 0.0206

Mars 66268-07-08 16:48 G 25925139.08 25925139.20 25925139.33 0.1619 0.0703

Uranus 66271-07-07 16:48 G 25926233.15 25926233.20 25926233.25 0.0142 0.0134

Uranus 66271-10-03 22:48 G 25926321.35 25926321.45 25926321.57 0.0142 0.0108

Uranus 66271-12-31 05:17 G 25926409.59 25926409.72 25926409.87 0.0142 0.0081

Jupiter 66272-02-23 07:41 G 25926463.69 25926463.82 25926463.96 0.0544 0.0052

Uranus 66272-03-28 11:46 G 25926497.83 25926497.99 25926498.15 0.0142 0.0053

Uranus 66272-06-24 18:15 G 25926586.09 25926586.26 25926586.43 0.0142 0.0026

Uranus 66272-09-21 00:43 G 25926674.36 25926674.53 25926674.71 0.0142 0.0004

Uranus 66272-12-18 07:12 G 25926762.64 25926762.80 25926762.98 0.0141 0.0030

Uranus 66273-03-16 13:41 G 25926850.92 25926851.07 25926851.24 0.0141 0.0058

Uranus 66273-06-12 20:24 G 25926939.22 25926939.35 25926939.50 0.0141 0.0085

Uranus 66273-09-09 02:53 G 25927027.53 25927027.62 25927027.74 0.0141 0.0114

Uranus 66273-12-06 10:05 G 25927115.92 25927115.92 25927115.92 0.0141 0.0141

Venus 66274-07-22 03:22 G 25927343.56 25927343.64 25927343.71 0.3686 0.2674

Mars 66275-02-09 16:48 G 25927546.07 25927546.20 25927546.32 0.1902 0.0715

Earth 66276-06-25 02:10 G 25928047.47 25928047.59 25928047.70 0.2690 0.0622

Moon 66276-06-25 02:53 G 25928047.51 25928047.62 25928047.73 0.2688 0.0633 *

Mars 66277-11-29 00:58 G 25928569.41 25928569.54 25928569.68 0.1620 0.0088

Jupiter 66278-01-06 05:46 G 25928607.67 25928607.74 25928607.82 0.0484 0.0429

Jupiter 66278-04-06 00:43 G 25928697.39 25928697.53 25928697.67 0.0484 0.0260

Earth 66278-12-24 19:41 G 25928960.19 25928960.32 25928960.45 0.2641 0.0968

Moon 66278-12-24 20:39 G 25928960.23 25928960.36 25928960.49 0.2637 0.0949 *

Venus 66280-02-04 20:24 G 25929367.25 25929367.35 25929367.46 0.3685 0.0353

Saturn 66281-04-16 13:41 G 25929803.96 25929804.07 25929804.17 0.0276 0.0190

Saturn 66281-07-14 03:07 G 25929892.49 25929892.63 25929892.77 0.0276 0.0048

Saturn 66281-10-10 16:19 G 25929981.05 25929981.18 25929981.32 0.0276 0.0092

Saturn 66282-01-07 05:17 G 25930069.65 25930069.72 25930069.80 0.0276 0.0229

Jupiter 66283-12-12 10:05 G 25930773.80 25930773.92 25930774.04 0.0545 0.0250

Venus 66285-08-20 13:27 G 25931391.01 25931391.06 25931391.11 0.3684 0.3242

Venus 66287-03-04 21:22 G 25931952.25 25931952.39 25931952.52 0.3685 0.0695

Mars 66287-04-21 09:07 G 25931999.76 25931999.88 25932000.00 0.1622 0.0871

Earth 66289-06-27 21:36 G 25932798.31 25932798.40 25932798.48 0.2689 0.1837

Moon 66289-06-27 21:51 G 25932798.33 25932798.41 25932798.49 0.2682 0.1930 *

Jupiter 66290-01-23 01:12 G 25933007.39 25933007.55 25933007.71 0.0484 0.0082

Moon 66291-12-27 21:07 G 25933711.24 25933711.38 25933711.52 0.2636 0.0805

Earth 66291-12-27 21:07 G 25933711.25 25933711.38 25933711.52 0.2643 0.0759 *

Jupiter 66295-09-30 12:43 G 25935083.95 25935084.03 25935084.11 0.0545 0.0444

Saturn 66295-10-31 15:07 G 25935115.03 25935115.13 25935115.26 0.0283 0.0198

Jupiter 66295-12-29 02:39 G 25935173.51 25935173.61 25935173.70 0.0544 0.0376

Saturn 66296-01-28 09:07 G 25935203.72 25935203.88 25935204.04 0.0283 0.0028

Saturn 66296-04-26 03:07 G 25935292.49 25935292.63 25935292.78 0.0283 0.0144

Earth 66296-06-20 15:36 G 25935348.06 25935348.15 25935348.25 0.2692 0.1680

Moon 66296-06-20 16:05 G 25935348.08 25935348.17 25935348.26 0.2698 0.1623 *

Mars 66298-08-17 08:39 G 25936135.84 25936135.86 25936135.88 0.1618 0.1588

Jupiter 66301-11-12 02:10 G 25937317.43 25937317.59 25937317.76 0.0484 0.0087

Pluto 66303-01-23 15:07 G 25937755.07 25937755.13 25937755.21 0.0079 0.0071

Pluto 66303-04-21 17:03 G 25937843.09 25937843.21 25937843.35 0.0079 0.0050

Pluto 66303-07-18 18:58 G 25937931.14 25937931.29 25937931.46 0.0078 0.0029

Pluto 66303-10-14 21:07 G 25938019.21 25938019.38 25938019.55 0.0078 0.0008

Pluto 66304-01-10 23:03 G 25938107.29 25938107.46 25938107.62 0.0078 0.0014

Pluto 66304-04-08 00:43 G 25938195.38 25938195.53 25938195.69 0.0078 0.0034

Pluto 66304-07-05 02:39 G 25938283.50 25938283.61 25938283.73 0.0078 0.0055

Pluto 66304-10-01 04:19 G 25938371.66 25938371.68 25938371.73 0.0078 0.0076

Moon 66304-12-30 22:19 G 25938462.38 25938462.43 25938462.49 0.2639 0.2453

Earth 66304-12-30 23:17 G 25938462.43 25938462.47 25938462.50 0.2644 0.2545 *

Mars 66305-03-21 13:55 G 25938542.96 25938543.08 25938543.20 0.1904 0.0867

Jupiter 66307-10-18 05:17 G 25939483.59 25939483.72 25939483.85 0.0544 0.0185

Mars 66308-01-08 17:03 G 25939566.10 25939566.21 25939566.33 0.1619 0.0829

Earth 66309-06-24 11:31 G 25940098.86 25940098.98 25940099.10 0.2691 0.0396

Moon 66309-06-24 12:29 G 25940098.90 25940099.02 25940099.13 0.2693 0.0373 *

Saturn 66310-09-04 13:27 G 25940536.00 25940536.06 25940536.13 0.0276 0.0247

Saturn 66310-12-02 03:07 G 25940624.50 25940624.63 25940624.77 0.0276 0.0104

Saturn 66311-02-28 16:34 G 25940713.05 25940713.19 25940713.34 0.0276 0.0037

Saturn 66311-05-28 05:46 G 25940801.63 25940801.74 25940801.85 0.0276 0.0176

Earth 66311-12-24 00:15 G 25941011.45 25941011.51 25941011.58 0.2640 0.2311

Moon 66311-12-24 01:41 G 25941011.50 25941011.57 25941011.64 0.2638 0.2268 *

Jupiter 66313-08-31 03:07 G 25941627.49 25941627.63 25941627.77 0.0484 0.0256

Jupiter 66313-11-28 22:19 G 25941717.37 25941717.43 25941717.50 0.0485 0.0444

Mars 66314-08-11 16:48 G 25941973.07 25941973.20 25941973.33 0.1902 0.0570

Uranus 66315-01-07 11:03 G 25942121.90 25942121.96 25942122.03 0.0136 0.0120

Uranus 66315-04-05 14:39 G 25942210.03 25942210.11 25942210.22 0.0136 0.0101

Uranus 66315-07-02 18:43 G 25942298.17 25942298.28 25942298.40 0.0136 0.0079

Uranus 66315-09-28 22:34 G 25942386.32 25942386.44 25942386.57 0.0136 0.0059

Uranus 66315-12-26 02:24 G 25942474.47 25942474.60 25942474.74 0.0137 0.0039

Uranus 66316-03-23 06:15 G 25942562.62 25942562.76 25942562.90 0.0137 0.0019

Uranus 66316-06-19 10:05 G 25942650.78 25942650.92 25942651.06 0.0137 0.0002

Uranus 66316-09-15 13:41 G 25942738.94 25942739.07 25942739.22 0.0137 0.0023

Uranus 66316-12-12 17:31 G 25942827.10 25942827.23 25942827.37 0.0137 0.0042

Uranus 66317-03-10 21:07 G 25942915.26 25942915.38 25942915.51 0.0137 0.0062

Mars 66317-05-31 01:12 G 25942996.42 25942996.55 25942996.69 0.1620 0.0067

Uranus 66317-06-07 00:58 G 25943003.43 25943003.54 25943003.65 0.0137 0.0082

Uranus 66317-09-03 04:34 G 25943091.60 25943091.69 25943091.79 0.0137 0.0102

Uranus 66317-11-30 08:24 G 25943179.78 25943179.85 25943179.91 0.0137 0.0122

Jupiter 66319-08-06 07:41 G 25943793.68 25943793.82 25943793.95 0.0544 0.0025

Earth 66322-06-27 07:12 G 25944849.69 25944849.80 25944849.91 0.2690 0.0853

Moon 66322-06-27 07:55 G 25944849.72 25944849.83 25944849.93 0.2686 0.0997 *

Earth 66324-12-26 01:27 G 25945762.43 25945762.56 25945762.70 0.2641 0.0656

Moon 66324-12-26 02:10 G 25945762.45 25945762.59 25945762.73 0.2636 0.0500 *

Saturn 66325-03-20 15:07 G 25945847.06 25945847.13 25945847.21 0.0283 0.0250

Saturn 66325-06-17 08:53 G 25945935.71 25945935.87 25945936.02 0.0283 0.0083

Jupiter 66325-06-19 04:34 G 25945937.61 25945937.69 25945937.77 0.0484 0.0416

Saturn 66325-09-14 02:53 G 25946024.46 25946024.62 25946024.77 0.0283 0.0088

Jupiter 66325-09-16 23:17 G 25946027.34 25946027.47 25946027.61 0.0484 0.0273

Saturn 66325-12-11 21:07 G 25946113.33 25946113.38 25946113.44 0.0283 0.0263

Mars 66326-10-21 09:22 G 25946426.77 25946426.89 25946427.01 0.1621 0.0740

Venus 66331-02-27 01:12 G 25948016.45 25948016.55 25948016.65 0.3686 0.1542

Jupiter 66331-05-25 08:39 G 25948103.74 25948103.86 25948103.99 0.0545 0.0243

Earth 66335-06-30 02:24 G 25949600.53 25949600.60 25949600.68 0.2688 0.2064

Moon 66335-06-30 02:53 G 25949600.54 25949600.62 25949600.69 0.2682 0.2028 *

Mars 66336-03-12 17:17 G 25949857.18 25949857.22 25949857.25 0.1623 0.1555

Venus 66336-09-11 18:15 G 25950040.16 25950040.26 25950040.36 0.3685 0.1439

Jupiter 66337-07-06 00:29 G 25950337.35 25950337.52 25950337.68 0.0484 0.0103

Neptune 66337-11-24 10:34 G 25950478.90 25950478.94 25950478.98 0.0089 0.0085

Moon 66337-12-29 03:07 G 25950513.49 25950513.63 25950513.76 0.2636 0.0991

Earth 66337-12-29 03:07 G 25950513.50 25950513.63 25950513.76 0.2643 0.1078 *

Neptune 66338-02-20 12:00 G 25950566.94 25950567.00 25950567.09 0.0089 0.0077

Venus 66338-03-26 19:55 G 25950601.25 25950601.33 25950601.41 0.3685 0.2879

Neptune 66338-05-19 13:41 G 25950654.99 25950655.07 25950655.18 0.0089 0.0069

Neptune 66338-08-15 15:36 G 25950743.05 25950743.15 25950743.26 0.0089 0.0060

Neptune 66338-11-11 17:17 G 25950831.11 25950831.22 25950831.35 0.0089 0.0051

Neptune 66339-02-07 18:58 G 25950919.17 25950919.29 25950919.43 0.0089 0.0043

Neptune 66339-05-06 20:53 G 25951007.24 25951007.37 25951007.50 0.0089 0.0035

Neptune 66339-08-02 22:34 G 25951095.31 25951095.44 25951095.58 0.0089 0.0026

Neptune 66339-10-30 00:15 G 25951183.37 25951183.51 25951183.65 0.0089 0.0018

Saturn 66340-01-22 16:19 G 25951268.18 25951268.18 25951268.19 0.0276 0.0275

Neptune 66340-01-26 01:55 G 25951271.44 25951271.58 25951271.73 0.0089 0.0010

Saturn 66340-04-20 06:15 G 25951356.63 25951356.76 25951356.88 0.0276 0.0132

Neptune 66340-04-23 03:36 G 25951359.51 25951359.65 25951359.80 0.0089 0.0003

Saturn 66340-07-17 19:41 G 25951445.17 25951445.32 25951445.46 0.0276 0.0012

Neptune 66340-07-20 05:17 G 25951447.58 25951447.72 25951447.87 0.0089 0.0007

Saturn 66340-10-14 08:39 G 25951533.74 25951533.86 25951533.99 0.0276 0.0148

Neptune 66340-10-16 06:58 G 25951535.65 25951535.79 25951535.93 0.0089 0.0015

Neptune 66341-01-12 08:39 G 25951623.72 25951623.86 25951624.00 0.0089 0.0023

Neptune 66341-04-10 10:19 G 25951711.80 25951711.93 25951712.07 0.0089 0.0031

Neptune 66341-07-07 12:00 G 25951799.87 25951800.00 25951800.13 0.0089 0.0039

Neptune 66341-10-03 13:27 G 25951887.95 25951888.06 25951888.19 0.0089 0.0048

Neptune 66341-12-30 15:07 G 25951976.03 25951976.13 25951976.25 0.0089 0.0055

Neptune 66342-03-28 16:48 G 25952064.11 25952064.20 25952064.30 0.0089 0.0063

Earth 66342-06-22 20:53 G 25952150.27 25952150.37 25952150.47 0.2692 0.1433

Moon 66342-06-22 21:22 G 25952150.29 25952150.39 25952150.49 0.2697 0.1364 *

Neptune 66342-06-24 18:15 G 25952152.19 25952152.26 25952152.36 0.0089 0.0072

Neptune 66342-09-20 19:55 G 25952240.28 25952240.33 25952240.40 0.0089 0.0079

Neptune 66342-12-17 21:36 G 25952328.38 25952328.40 25952328.44 0.0089 0.0087

Jupiter 66343-03-13 10:48 G 25952413.87 25952413.95 25952414.03 0.0545 0.0449

Jupiter 66343-06-11 00:43 G 25952503.43 25952503.53 25952503.63 0.0544 0.0372

Venus 66343-10-10 21:07 G 25952625.29 25952625.38 25952625.48 0.3686 0.2627

Mars 66344-09-19 13:41 G 25952969.96 25952970.07 25952970.19 0.1904 0.0993

Mars 66347-07-09 17:17 G 25953993.11 25953993.22 25953993.33 0.1619 0.0953

Jupiter 66349-04-24 00:58 G 25954647.38 25954647.54 25954647.71 0.0484 0.0073

Mars 66354-02-09 17:17 G 25956400.08 25956400.22 25956400.35 0.1903 0.0403

Saturn 66354-11-04 08:10 G 25956667.71 25956667.84 25956667.99 0.0283 0.0138

Saturn 66355-02-01 02:10 G 25956756.43 25956756.59 25956756.75 0.0283 0.0032

Jupiter 66355-03-30 03:36 G 25956813.52 25956813.65 25956813.78 0.0545 0.0185

Saturn 66355-04-30 20:10 G 25956845.23 25956845.34 25956845.46 0.0283 0.0206

Earth 66355-06-25 16:34 G 25956901.07 25956901.19 25956901.31 0.2690 0.0163

Moon 66355-06-25 17:31 G 25956901.11 25956901.23 25956901.34 0.2693 0.0113 *

Uranus 66355-07-29 00:15 G 25956934.44 25956934.51 25956934.60 0.0142 0.0125

Uranus 66355-10-25 06:43 G 25957022.66 25957022.78 25957022.91 0.0142 0.0098

Uranus 66356-01-21 12:58 G 25957110.90 25957111.04 25957111.20 0.0142 0.0071

Uranus 66356-04-18 19:27 G 25957199.15 25957199.31 25957199.48 0.0142 0.0044

Uranus 66356-07-16 01:55 G 25957287.41 25957287.58 25957287.76 0.0142 0.0017

Uranus 66356-10-12 08:39 G 25957375.68 25957375.86 25957376.03 0.0142 0.0012

Mars 66356-11-29 01:41 G 25957423.43 25957423.57 25957423.70 0.1620 0.0190

Uranus 66357-01-08 15:07 G 25957463.96 25957464.13 25957464.30 0.0141 0.0039

Uranus 66357-04-06 21:36 G 25957552.25 25957552.40 25957552.56 0.0141 0.0067

Uranus 66357-07-04 04:05 G 25957640.55 25957640.67 25957640.81 0.0141 0.0096

Uranus 66357-09-30 10:48 G 25957728.88 25957728.95 25957729.04 0.0141 0.0123

Earth 66357-12-24 06:00 G 25957813.66 25957813.75 25957813.84 0.2640 0.2014

Moon 66357-12-24 07:12 G 25957813.70 25957813.80 25957813.91 0.2638 0.1822 *

Jupiter 66361-02-10 02:10 G 25958957.45 25958957.59 25958957.73 0.0484 0.0240

Jupiter 66361-05-10 21:22 G 25959047.34 25959047.39 25959047.44 0.0484 0.0458

Mars 66363-07-02 20:39 G 25959830.32 25959830.36 25959830.41 0.1900 0.1771

Mars 66366-04-21 09:36 G 25960853.77 25960853.90 25960854.03 0.1621 0.0611

Jupiter 66367-01-16 06:15 G 25961123.62 25961123.76 25961123.90 0.0544 0.0011

Earth 66368-06-27 12:15 G 25961651.90 25961652.01 25961652.11 0.2689 0.1083

Moon 66368-06-27 12:43 G 25961651.93 25961652.03 25961652.14 0.2685 0.1091 *

Saturn 66369-09-07 06:00 G 25962088.65 25962088.75 25962088.86 0.0276 0.0189

Saturn 66369-12-04 19:41 G 25962177.18 25962177.32 25962177.46 0.0276 0.0047

Saturn 66370-03-03 08:53 G 25962265.74 25962265.87 25962266.01 0.0276 0.0094

Saturn 66370-05-30 22:05 G 25962354.34 25962354.42 25962354.50 0.0276 0.0230

Earth 66370-12-27 07:27 G 25962564.67 25962564.81 25962564.95 0.2642 0.0339

Moon 66370-12-27 07:55 G 25962564.69 25962564.83 25962564.97 0.2636 0.0374 *

Jupiter 66372-11-29 03:07 G 25963267.55 25963267.63 25963267.72 0.0484 0.0407

Jupiter 66373-02-26 21:51 G 25963357.28 25963357.41 25963357.55 0.0484 0.0282

Moon 66375-06-21 05:46 G 25964201.70 25964201.74 25964201.79 0.2699 0.2467

Earth 66375-06-21 06:00 G 25964201.71 25964201.75 25964201.79 0.2693 0.2498 *

Mars 66375-09-11 17:31 G 25964284.16 25964284.23 25964284.29 0.1623 0.1422

Jupiter 66378-11-04 08:24 G 25965433.72 25965433.85 25965433.98 0.0544 0.0212

Earth 66381-06-30 07:41 G 25966402.76 25966402.82 25966402.87 0.2688 0.2289

Moon 66381-06-30 07:41 G 25966402.77 25966402.82 25966402.88 0.2682 0.2365 *

Venus 66382-03-20 05:46 G 25966665.70 25966665.74 25966665.77 0.3687 0.3454

Moon 66383-12-30 08:53 G 25967315.75 25967315.87 25967315.99 0.2636 0.1458

Earth 66383-12-30 09:07 G 25967315.76 25967315.88 25967316.00 0.2643 0.1405 *

Mars 66384-03-20 14:10 G 25967396.98 25967397.09 25967397.20 0.1904 0.1166

Saturn 66384-03-23 07:55 G 25967399.71 25967399.83 25967399.95 0.0283 0.0193

Saturn 66384-06-20 01:41 G 25967488.41 25967488.57 25967488.73 0.0283 0.0024

Saturn 66384-09-16 19:41 G 25967577.18 25967577.32 25967577.46 0.0283 0.0148

Jupiter 66384-12-15 23:03 G 25967667.30 25967667.46 25967667.62 0.0484 0.0114

Mars 66387-01-07 17:31 G 25968420.13 25968420.23 25968420.33 0.1619 0.1078

Venus 66387-10-03 23:03 G 25968689.35 25968689.46 25968689.57 0.3686 0.0417

Earth 66388-06-23 01:55 G 25968952.48 25968952.58 25968952.69 0.2692 0.1191

Moon 66388-06-23 02:39 G 25968952.50 25968952.61 25968952.72 0.2696 0.1152 *

Jupiter 66390-08-23 09:22 G 25969743.81 25969743.89 25969743.97 0.0545 0.0442

Jupiter 66390-11-20 23:17 G 25969833.37 25969833.47 25969833.56 0.0544 0.0377

Venus 66393-04-18 16:05 G 25970713.09 25970713.17 25970713.25 0.3685 0.2520

Mars 66393-08-10 17:17 G 25970827.08 25970827.22 25970827.35 0.1902 0.0259

Venus 66394-10-31 19:41 G 25971274.19 25971274.32 25971274.45 0.3685 0.1001

Mars 66396-05-30 01:41 G 25971850.44 25971850.57 25971850.71 0.1620 0.0311

Jupiter 66396-10-04 00:00 G 25971977.34 25971977.50 25971977.67 0.0484 0.0055

Uranus 66398-10-31 14:24 G 25972735.09 25972735.10 25972735.14 0.0136 0.0134

Saturn 66399-01-25 09:07 G 25972820.79 25972820.88 25972820.97 0.0276 0.0216

Uranus 66399-01-27 18:29 G 25972823.20 25972823.27 25972823.36 0.0136 0.0113

Saturn 66399-04-23 22:48 G 25972909.31 25972909.45 25972909.59 0.0276 0.0074

Uranus 66399-04-25 22:19 G 25972911.33 25972911.43 25972911.54 0.0136 0.0092

Saturn 66399-07-21 12:00 G 25972997.86 25972998.00 25972998.14 0.0276 0.0067

Uranus 66399-07-23 02:24 G 25972999.48 25972999.60 25972999.72 0.0136 0.0072

Saturn 66399-10-18 01:12 G 25973086.45 25973086.55 25973086.65 0.0276 0.0204

Uranus 66399-10-19 06:00 G 25973087.63 25973087.75 25973087.89 0.0136 0.0052

Uranus 66400-01-15 10:05 G 25973175.78 25973175.92 25973176.06 0.0136 0.0031

Uranus 66400-04-12 13:41 G 25973263.93 25973264.07 25973264.22 0.0137 0.0012

Uranus 66400-07-09 17:31 G 25973352.09 25973352.23 25973352.38 0.0137 0.0010

Uranus 66400-10-05 21:22 G 25973440.25 25973440.39 25973440.53 0.0137 0.0030

Uranus 66401-01-02 00:58 G 25973528.41 25973528.54 25973528.68 0.0137 0.0050

Uranus 66401-03-31 04:48 G 25973616.58 25973616.70 25973616.82 0.0137 0.0070

Earth 66401-06-25 21:36 G 25973703.29 25973703.40 25973703.52 0.2690 0.0108

Moon 66401-06-25 22:34 G 25973703.32 25973703.44 25973703.55 0.2691 0.0161 *

Uranus 66401-06-27 08:24 G 25973704.75 25973704.85 25973704.96 0.0137 0.0090

Uranus 66401-09-23 12:15 G 25973792.93 25973793.01 25973793.09 0.0137 0.0109

Uranus 66401-12-20 15:36 G 25973881.12 25973881.15 25973881.20 0.0137 0.0130

Jupiter 66402-09-09 01:41 G 25974143.44 25974143.57 25974143.70 0.0544 0.0180

Mars 66402-12-31 20:39 G 25974257.30 25974257.36 25974257.43 0.1900 0.1634

Earth 66403-12-25 12:00 G 25974615.89 25974616.00 25974616.10 0.2641 0.1702

Moon 66403-12-25 12:58 G 25974615.94 25974616.04 25974616.15 0.2638 0.1641 *

Mars 66405-10-20 09:51 G 25975280.78 25975280.91 25975281.04 0.1622 0.0478

Jupiter 66408-07-23 00:43 G 25976287.39 25976287.53 25976287.68 0.0484 0.0228

Jupiter 66408-10-20 19:55 G 25976377.30 25976377.33 25976377.37 0.0484 0.0470

Saturn 66413-08-10 07:55 G 25978131.75 25978131.83 25978131.92 0.0283 0.0242

Saturn 66413-11-07 01:41 G 25978220.41 25978220.57 25978220.72 0.0283 0.0075

Saturn 66414-02-03 19:27 G 25978309.16 25978309.31 25978309.47 0.0283 0.0096

Saturn 66414-05-03 13:41 G 25978398.03 25978398.07 25978398.12 0.0283 0.0270

Jupiter 66414-06-28 04:19 G 25978453.54 25978453.68 25978453.82 0.0545 0.0016

Earth 66414-06-28 17:17 G 25978454.11 25978454.22 25978454.32 0.2689 0.1312

Moon 66414-06-28 17:46 G 25978454.14 25978454.24 25978454.34 0.2684 0.1431 *

Mars 66415-03-12 17:46 G 25978711.16 25978711.24 25978711.32 0.1623 0.1284

Earth 66416-12-27 13:12 G 25979366.91 25979367.05 25979367.19 0.2642 0.0040

Moon 66416-12-27 13:41 G 25979366.92 25979367.07 25979367.21 0.2635 0.0109 *

Jupiter 66420-05-11 01:55 G 25980597.49 25980597.58 25980597.68 0.0483 0.0393

Jupiter 66420-08-08 20:39 G 25980687.23 25980687.36 25980687.50 0.0484 0.0296

Earth 66421-06-21 11:03 G 25981003.90 25981003.96 25981004.03 0.2693 0.2248

Moon 66421-06-21 11:17 G 25981003.91 25981003.97 25981004.03 0.2699 0.2302 *

Neptune 66421-07-25 10:48 G 25981037.88 25981037.95 25981038.02 0.0088 0.0079

Neptune 66421-10-21 13:27 G 25981125.96 25981126.06 25981126.17 0.0088 0.0070

Neptune 66422-01-17 15:51 G 25981214.05 25981214.16 25981214.30 0.0088 0.0061

Neptune 66422-04-15 18:29 G 25981302.14 25981302.27 25981302.42 0.0088 0.0052

Neptune 66422-07-12 21:22 G 25981390.24 25981390.39 25981390.55 0.0088 0.0042

Neptune 66422-10-09 00:00 G 25981478.35 25981478.50 25981478.67 0.0088 0.0033

Neptune 66423-01-05 02:53 G 25981566.45 25981566.62 25981566.79 0.0088 0.0023

Neptune 66423-04-03 05:31 G 25981654.56 25981654.73 25981654.90 0.0088 0.0014

Neptune 66423-06-30 08:10 G 25981742.67 25981742.84 25981743.02 0.0088 0.0005

Mars 66423-09-19 14:24 G 25981824.00 25981824.10 25981824.20 0.1904 0.1330

Neptune 66423-09-26 11:03 G 25981830.78 25981830.96 25981831.13 0.0088 0.0005

Neptune 66423-12-23 13:41 G 25981918.90 25981919.07 25981919.25 0.0088 0.0015

Neptune 66424-03-20 16:34 G 25982007.02 25982007.19 25982007.36 0.0088 0.0024

Neptune 66424-06-16 19:12 G 25982095.14 25982095.30 25982095.47 0.0088 0.0034

Neptune 66424-09-12 21:51 G 25982183.27 25982183.41 25982183.57 0.0088 0.0044

Neptune 66424-12-10 00:58 G 25982271.40 25982271.54 25982271.68 0.0088 0.0054

Neptune 66425-03-08 03:22 G 25982359.53 25982359.64 25982359.77 0.0088 0.0063

Neptune 66425-06-04 06:15 G 25982447.67 25982447.76 25982447.87 0.0088 0.0073

Neptune 66425-08-31 08:53 G 25982535.83 25982535.87 25982535.94 0.0088 0.0083

Jupiter 66426-04-16 06:58 G 25982763.66 25982763.79 25982763.92 0.0545 0.0205

Mars 66426-07-08 17:46 G 25982847.15 25982847.24 25982847.33 0.1619 0.1203

Moon 66427-07-01 12:29 G 25983204.98 25983205.02 25983205.07 0.2681 0.2441

Earth 66427-07-01 12:29 G 25983204.99 25983205.02 25983205.06 0.2688 0.2511 *

Saturn 66428-06-13 09:07 G 25983552.86 25983552.88 25983552.91 0.0276 0.0271

Saturn 66428-09-09 22:48 G 25983641.33 25983641.45 25983641.59 0.0276 0.0129

Saturn 66428-12-07 12:29 G 25983729.87 25983730.02 25983730.16 0.0276 0.0015

Saturn 66429-03-06 01:27 G 25983818.45 25983818.56 25983818.69 0.0276 0.0152

Moon 66429-12-30 14:24 G 25984117.99 25984118.10 25984118.22 0.2637 0.1588

Earth 66429-12-30 14:53 G 25984118.02 25984118.12 25984118.23 0.2643 0.1729 *

Jupiter 66432-05-27 21:22 G 25984997.23 25984997.39 25984997.55 0.0484 0.0122

Mars 66433-02-08 17:31 G 25985254.09 25985254.23 25985254.36 0.1902 0.0103

Earth 66434-06-24 06:58 G 25985754.68 25985754.79 25985754.90 0.2691 0.0953

Moon 66434-06-24 07:41 G 25985754.71 25985754.82 25985754.93 0.2696 0.0837 *

Mars 66435-11-29 01:55 G 25986277.45 25986277.58 25986277.72 0.1620 0.0437

Jupiter 66438-02-02 09:07 G 25987073.79 25987073.88 25987073.97 0.0545 0.0412

Jupiter 66438-05-02 22:48 G 25987163.36 25987163.45 25987163.54 0.0544 0.0406

Venus 66438-10-25 03:36 G 25987338.57 25987338.65 25987338.73 0.3686 0.2312

Uranus 66439-05-22 01:41 G 25987547.57 25987547.57 25987547.59 0.0142 0.0142

Uranus 66439-08-18 07:55 G 25987635.74 25987635.83 25987635.94 0.0142 0.0115

Uranus 66439-11-14 14:24 G 25987723.97 25987724.10 25987724.24 0.0142 0.0088

Uranus 66440-02-10 20:53 G 25987812.22 25987812.37 25987812.53 0.0142 0.0061

Uranus 66440-05-09 03:22 G 25987900.47 25987900.64 25987900.81 0.0142 0.0033

Uranus 66440-08-05 09:51 G 25987988.74 25987988.91 25987989.08 0.0142 0.0006

Uranus 66440-11-01 16:19 G 25988077.01 25988077.18 25988077.35 0.0142 0.0022

Uranus 66441-01-28 22:48 G 25988165.29 25988165.45 25988165.62 0.0141 0.0050

Uranus 66441-04-27 05:31 G 25988253.58 25988253.73 25988253.88 0.0141 0.0078

Uranus 66441-07-24 12:15 G 25988341.89 25988342.01 25988342.12 0.0141 0.0106

Uranus 66441-10-20 18:29 G 25988430.23 25988430.27 25988430.34 0.0141 0.0134

Mars 66442-07-01 20:53 G 25988684.29 25988684.37 25988684.46 0.1900 0.1472

Saturn 66443-03-27 00:58 G 25988952.40 25988952.54 25988952.68 0.0283 0.0132

Saturn 66443-06-23 18:43 G 25989041.12 25989041.28 25989041.45 0.0283 0.0038

Saturn 66443-09-20 12:58 G 25989129.93 25989130.04 25989130.15 0.0283 0.0211

Jupiter 66444-03-15 22:34 G 25989307.28 25989307.44 25989307.61 0.0484 0.0045

Venus 66444-05-09 20:53 G 25989362.26 25989362.37 25989362.47 0.3685 0.0704

Mars 66445-04-20 10:05 G 25989707.79 25989707.92 25989708.06 0.1622 0.0350

Earth 66447-06-27 02:39 G 25990505.50 25990505.61 25990505.73 0.2690 0.0322

Moon 66447-06-27 03:36 G 25990505.53 25990505.65 25990505.76 0.2689 0.0386 *

Venus 66449-11-23 13:55 G 25991386.06 25991386.08 25991386.09 0.3684 0.3610

Earth 66449-12-25 17:46 G 25991418.12 25991418.24 25991418.36 0.2641 0.1396

Moon 66449-12-25 18:43 G 25991418.16 25991418.28 25991418.40 0.2637 0.1288 *

Jupiter 66450-02-19 00:15 G 25991473.38 25991473.51 25991473.64 0.0544 0.0186

Venus 66451-06-07 19:41 G 25991947.19 25991947.32 25991947.45 0.3685 0.0930

Mars 66454-09-10 18:00 G 25993138.15 25993138.25 25993138.34 0.1623 0.1156

Jupiter 66456-01-02 23:46 G 25993617.34 25993617.49 25993617.64 0.0484 0.0211

Saturn 66458-01-28 01:55 G 25994373.46 25994373.58 25994373.70 0.0276 0.0155

Saturn 66458-04-26 15:22 G 25994462.00 25994462.14 25994462.29 0.0276 0.0015

Saturn 66458-07-24 04:34 G 25994550.57 25994550.69 25994550.83 0.0276 0.0127

Saturn 66458-10-20 17:46 G 25994639.20 25994639.24 25994639.28 0.0276 0.0263

Earth 66460-06-28 22:19 G 25995256.33 25995256.43 25995256.52 0.2689 0.1543

Moon 66460-06-28 22:48 G 25995256.36 25995256.45 25995256.55 0.2684 0.1564 *

Jupiter 66461-12-08 02:24 G 25995783.46 25995783.60 25995783.74 0.0545 0.0017

Pluto 66462-11-23 03:07 G 25996133.58 25996133.63 25996133.67 0.0065 0.0061

Earth 66462-12-28 19:12 G 25996169.15 25996169.30 25996169.44 0.2642 0.0305

Moon 66462-12-28 19:27 G 25996169.17 25996169.31 25996169.45 0.2635 0.0263 *

Pluto 66463-02-19 03:22 G 25996221.56 25996221.64 25996221.75 0.0065 0.0051

Mars 66463-03-20 14:24 G 25996251.01 25996251.10 25996251.18 0.1904 0.1470

Pluto 66463-05-18 04:05 G 25996309.57 25996309.67 25996309.80 0.0065 0.0041

Pluto 66463-08-14 05:03 G 25996397.58 25996397.71 25996397.84 0.0065 0.0030

Pluto 66463-11-10 05:31 G 25996485.60 25996485.73 25996485.88 0.0065 0.0019

Pluto 66464-02-06 06:29 G 25996573.62 25996573.77 25996573.92 0.0065 0.0008

Pluto 66464-05-04 07:12 G 25996661.65 25996661.80 25996661.95 0.0065 0.0003

Pluto 66464-07-31 07:41 G 25996749.68 25996749.82 25996749.97 0.0066 0.0014

Pluto 66464-10-27 08:24 G 25996837.72 25996837.85 25996837.99 0.0066 0.0024

Pluto 66465-01-23 09:07 G 25996925.76 25996925.88 25996926.01 0.0066 0.0035

Pluto 66465-04-21 09:51 G 25997013.81 25997013.91 25997014.02 0.0066 0.0046

Pluto 66465-07-18 10:19 G 25997101.87 25997101.93 25997102.01 0.0066 0.0057

Mars 66466-01-06 18:00 G 25997274.17 25997274.25 25997274.32 0.1619 0.1327

Earth 66467-06-22 16:19 G 25997806.10 25997806.18 25997806.25 0.2692 0.2007

Moon 66467-06-22 16:34 G 25997806.11 25997806.19 25997806.27 0.2699 0.1903 *

Jupiter 66467-10-22 00:29 G 25997927.43 25997927.52 25997927.62 0.0483 0.0384

Jupiter 66468-01-19 19:12 G 25998017.18 25998017.30 25998017.43 0.0484 0.0306

Mars 66472-08-09 17:46 G 25999681.10 25999681.24 25999681.37 0.1903 0.0065

Saturn 66472-08-13 01:41 G 25999684.45 25999684.57 25999684.70 0.0283 0.0175

Saturn 66472-11-09 19:27 G 25999773.15 25999773.31 25999773.47 0.0283 0.0007

Saturn 66473-02-06 13:27 G 25999861.93 25999862.06 25999862.19 0.0283 0.0165

Jupiter 66473-09-26 05:03 G 26000093.58 26000093.71 26000093.84 0.0545 0.0213

Mars 66475-05-30 02:24 G 26000704.47 26000704.60 26000704.72 0.1620 0.0568

Moon 66475-12-31 20:10 G 26000920.25 26000920.34 26000920.43 0.2638 0.2055

Earth 66475-12-31 20:53 G 26000920.28 26000920.37 26000920.46 0.2643 0.2059 *

Jupiter 66479-11-07 20:10 G 26002327.18 26002327.34 26002327.50 0.0484 0.0133

Earth 66480-06-24 12:00 G 26002556.89 26002557.00 26002557.12 0.2691 0.0719

Moon 66480-06-24 12:43 G 26002556.92 26002557.03 26002557.15 0.2695 0.0699 *

Mars 66481-12-30 21:07 G 26003111.29 26003111.38 26003111.48 0.1900 0.1312

Uranus 66482-11-20 21:51 G 26003436.37 26003436.41 26003436.47 0.0136 0.0126

Uranus 66483-02-17 01:55 G 26003524.49 26003524.58 26003524.67 0.0136 0.0106

Uranus 66483-05-16 05:46 G 26003612.63 26003612.74 26003612.86 0.0136 0.0085

Uranus 66483-08-12 09:51 G 26003700.78 26003700.91 26003701.03 0.0136 0.0065

Uranus 66483-11-08 13:27 G 26003788.93 26003789.06 26003789.20 0.0136 0.0045

Uranus 66484-02-04 17:17 G 26003877.08 26003877.22 26003877.37 0.0136 0.0024

Uranus 66484-05-02 21:07 G 26003965.24 26003965.38 26003965.53 0.0136 0.0005

Uranus 66484-07-30 00:58 G 26004053.40 26004053.54 26004053.68 0.0137 0.0016

Mars 66484-10-19 10:19 G 26004134.80 26004134.93 26004135.07 0.1621 0.0222

Uranus 66484-10-26 04:48 G 26004141.56 26004141.70 26004141.83 0.0137 0.0037

Uranus 66485-01-22 08:24 G 26004229.72 26004229.85 26004229.98 0.0137 0.0057

Uranus 66485-04-20 12:00 G 26004317.89 26004318.00 26004318.12 0.0137 0.0077

Jupiter 66485-07-15 07:27 G 26004403.72 26004403.81 26004403.90 0.0545 0.0409

Uranus 66485-07-17 15:51 G 26004406.06 26004406.16 26004406.26 0.0137 0.0096

Jupiter 66485-10-12 21:22 G 26004493.30 26004493.39 26004493.48 0.0544 0.0410

Uranus 66485-10-13 19:27 G 26004494.24 26004494.31 26004494.39 0.0137 0.0116

Uranus 66486-01-09 23:03 G 26004582.45 26004582.46 26004582.48 0.0137 0.0136

Saturn 66487-06-17 02:10 G 26005105.50 26005105.59 26005105.69 0.0276 0.0208

Saturn 66487-09-13 15:51 G 26005194.02 26005194.16 26005194.30 0.0276 0.0066

Saturn 66487-12-11 05:17 G 26005282.58 26005282.72 26005282.86 0.0276 0.0074

Saturn 66488-03-08 18:15 G 26005371.18 26005371.26 26005371.36 0.0276 0.0212

Jupiter 66491-08-26 20:53 G 26006637.20 26006637.37 26006637.53 0.0484 0.0040

Earth 66493-06-27 07:41 G 26007307.71 26007307.82 26007307.94 0.2690 0.0554

Moon 66493-06-27 08:39 G 26007307.74 26007307.86 26007307.97 0.2688 0.0670 *

Mars 66494-03-11 18:15 G 26007565.15 26007565.26 26007565.37 0.1623 0.1021

Venus 66495-06-01 01:27 G 26008011.46 26008011.56 26008011.66 0.3686 0.1173

Earth 66495-12-26 23:46 G 26008220.36 26008220.49 26008220.61 0.2641 0.1083

Moon 66495-12-27 00:29 G 26008220.39 26008220.52 26008220.65 0.2636 0.0977 *

Jupiter 66497-07-31 23:46 G 26008803.36 26008803.49 26008803.61 0.0544 0.0212

Venus 66500-12-15 18:43 G 26010035.18 26010035.28 26010035.37 0.3685 0.1808

Saturn 66502-01-01 00:58 G 26010416.46 26010416.54 26010416.63 0.0283 0.0233

Saturn 66502-03-30 18:29 G 26010505.12 26010505.27 26010505.43 0.0283 0.0067

Saturn 66502-06-27 12:29 G 26010593.87 26010594.02 26010594.18 0.0283 0.0105

Venus 66502-06-29 18:29 G 26010596.17 26010596.27 26010596.36 0.3684 0.2588

Neptune 66502-08-22 09:36 G 26010649.84 26010649.90 26010649.95 0.0089 0.0082

Mars 66502-09-19 14:39 G 26010678.04 26010678.11 26010678.18 0.1904 0.1633

Saturn 66502-09-24 06:43 G 26010682.76 26010682.78 26010682.81 0.0282 0.0279

Neptune 66502-11-18 11:03 G 26010737.89 26010737.96 26010738.05 0.0089 0.0074

Neptune 66503-02-14 12:43 G 26010825.94 26010826.03 26010826.14 0.0089 0.0065

Neptune 66503-05-13 14:39 G 26010914.00 26010914.11 26010914.22 0.0089 0.0057

Jupiter 66503-06-15 22:05 G 26010947.27 26010947.42 26010947.57 0.0484 0.0204

Neptune 66503-08-09 16:19 G 26011002.06 26011002.18 26011002.31 0.0089 0.0048

Neptune 66503-11-05 18:00 G 26011090.13 26011090.25 26011090.39 0.0089 0.0040

Neptune 66504-02-01 19:55 G 26011178.19 26011178.33 26011178.46 0.0089 0.0032

Neptune 66504-04-29 21:36 G 26011266.26 26011266.40 26011266.54 0.0089 0.0023

Neptune 66504-07-26 23:17 G 26011354.33 26011354.47 26011354.61 0.0089 0.0015

Neptune 66504-10-23 00:58 G 26011442.40 26011442.54 26011442.68 0.0089 0.0007

Neptune 66505-01-19 02:39 G 26011530.47 26011530.61 26011530.76 0.0089 0.0002

Neptune 66505-04-17 04:19 G 26011618.54 26011618.68 26011618.82 0.0089 0.0010

Mars 66505-07-08 18:15 G 26011701.20 26011701.26 26011701.32 0.1619 0.1450

Neptune 66505-07-14 06:00 G 26011706.61 26011706.75 26011706.89 0.0089 0.0018

Neptune 66505-10-10 07:41 G 26011794.68 26011794.82 26011794.96 0.0089 0.0026

Neptune 66506-01-06 09:07 G 26011882.76 26011882.88 26011883.02 0.0089 0.0035

Neptune 66506-04-04 10:48 G 26011970.83 26011970.95 26011971.08 0.0089 0.0042

Earth 66506-07-01 03:22 G 26012058.55 26012058.64 26012058.72 0.2689 0.1769

Moon 66506-07-01 03:36 G 26012058.57 26012058.65 26012058.74 0.2684 0.1823 *

Neptune 66506-07-01 12:29 G 26012058.91 26012059.02 26012059.14 0.0089 0.0050

Neptune 66506-09-27 14:10 G 26012146.99 26012147.09 26012147.20 0.0089 0.0058

Neptune 66506-12-24 15:36 G 26012235.07 26012235.15 26012235.26 0.0089 0.0067

Neptune 66507-03-22 17:17 G 26012323.16 26012323.22 26012323.31 0.0089 0.0074

Neptune 66507-06-18 18:43 G 26012411.25 26012411.28 26012411.35 0.0089 0.0083

Venus 66508-01-13 19:41 G 26012620.24 26012620.32 26012620.40 0.3686 0.2911

Earth 66508-12-30 00:58 G 26012971.40 26012971.54 26012971.68 0.2642 0.0622

Moon 66508-12-30 01:12 G 26012971.41 26012971.55 26012971.69 0.2636 0.0671 *

Jupiter 66509-05-21 00:58 G 26013113.40 26013113.54 26013113.68 0.0544 0.0013

Mars 66512-02-09 17:46 G 26014108.11 26014108.24 26014108.38 0.1902 0.0215

Earth 66513-06-23 21:22 G 26014608.30 26014608.39 26014608.48 0.2692 0.1754

Moon 66513-06-23 21:51 G 26014608.32 26014608.41 26014608.50 0.2699 0.1788 *

Mars 66514-11-29 02:24 G 26015131.48 26015131.60 26015131.73 0.1620 0.0689

Jupiter 66515-04-03 23:17 G 26015257.37 26015257.47 26015257.58 0.0484 0.0370

Jupiter 66515-07-02 18:00 G 26015347.13 26015347.25 26015347.38 0.0484 0.0321

Saturn 66516-11-04 05:17 G 26015837.64 26015837.72 26015837.80 0.0276 0.0234

Saturn 66517-01-31 18:58 G 26015926.15 26015926.29 26015926.43 0.0276 0.0091

Saturn 66517-04-30 08:24 G 26016014.71 26016014.85 26016014.99 0.0276 0.0050

Saturn 66517-07-27 21:36 G 26016103.30 26016103.40 26016103.51 0.0276 0.0188

Jupiter 66521-03-09 02:53 G 26017423.49 26017423.62 26017423.75 0.0545 0.0220

Mars 66521-07-01 21:07 G 26017538.28 26017538.38 26017538.49 0.1900 0.1180

Moon 66522-01-02 01:55 G 26017722.50 26017722.58 26017722.66 0.2638 0.2213

Earth 66522-01-02 02:53 G 26017722.56 26017722.62 26017722.68 0.2644 0.2388 *

Uranus 66523-06-12 09:22 G 26018248.84 26018248.89 26018248.96 0.0142 0.0133

Uranus 66523-09-08 15:51 G 26018337.05 26018337.16 26018337.28 0.0142 0.0105

Uranus 66523-12-05 22:19 G 26018425.29 26018425.43 26018425.57 0.0142 0.0078

Uranus 66524-03-03 04:34 G 26018513.53 26018513.69 26018513.86 0.0142 0.0051

Mars 66524-04-20 10:34 G 26018561.81 26018561.94 26018562.08 0.1622 0.0094

Uranus 66524-05-30 11:03 G 26018601.79 26018601.96 26018602.13 0.0142 0.0024

Uranus 66524-08-26 17:31 G 26018690.06 26018690.23 26018690.41 0.0142 0.0005

Uranus 66524-11-23 00:15 G 26018778.34 26018778.51 26018778.68 0.0142 0.0032

Uranus 66525-02-19 06:43 G 26018866.62 26018866.78 26018866.94 0.0142 0.0060

Uranus 66525-05-18 13:12 G 26018954.92 26018955.05 26018955.19 0.0141 0.0088

Uranus 66525-08-14 19:55 G 26019043.24 26019043.33 26019043.43 0.0141 0.0116

Earth 66526-06-26 17:17 G 26019359.10 26019359.22 26019359.33 0.2691 0.0479

Moon 66526-06-26 18:00 G 26019359.13 26019359.25 26019359.37 0.2693 0.0322 *

Jupiter 66527-04-20 18:29 G 26019657.11 26019657.27 26019657.43 0.0484 0.0140

Earth 66528-12-25 04:19 G 26020271.63 26020271.68 26020271.74 0.2640 0.2420

Moon 66528-12-25 05:31 G 26020271.66 26020271.73 26020271.80 0.2639 0.2231 *

Saturn 66531-05-21 02:24 G 26021148.56 26021148.60 26021148.65 0.0283 0.0270

Saturn 66531-08-17 19:55 G 26021237.18 26021237.33 26021237.48 0.0283 0.0104

Saturn 66531-11-14 13:41 G 26021325.91 26021326.07 26021326.23 0.0283 0.0065

Saturn 66532-02-11 07:55 G 26021414.74 26021414.83 26021414.92 0.0283 0.0238

Jupiter 66532-12-26 05:03 G 26021733.63 26021733.71 26021733.80 0.0545 0.0421

Jupiter 66533-03-25 18:58 G 26021823.21 26021823.29 26021823.39 0.0544 0.0402

Mars 66533-09-10 18:29 G 26021992.16 26021992.27 26021992.39 0.1623 0.0887

Jupiter 66539-02-06 19:27 G 26023967.14 26023967.31 26023967.47 0.0484 0.0031

Earth 66539-06-29 12:58 G 26024109.92 26024110.04 26024110.15 0.2690 0.0786

Moon 66539-06-29 13:41 G 26024109.96 26024110.07 26024110.18 0.2688 0.0820 *

Earth 66541-12-28 05:31 G 26025022.59 26025022.73 26025022.86 0.2641 0.0772

Moon 66541-12-28 06:15 G 26025022.62 26025022.76 26025022.90 0.2635 0.0737 *

Mars 66542-03-20 15:07 G 26025105.09 26025105.13 26025105.17 0.1904 0.1807

Mars 66545-01-06 18:29 G 26026128.24 26026128.27 26026128.30 0.1619 0.1573

Jupiter 66545-01-11 21:51 G 26026133.29 26026133.41 26026133.54 0.0544 0.0213

Saturn 66546-06-20 19:41 G 26026658.19 26026658.32 26026658.44 0.0276 0.0142

Venus 66546-06-23 06:00 G 26026660.69 26026660.75 26026660.81 0.3687 0.3083

Saturn 66546-09-17 09:07 G 26026746.74 26026746.88 26026747.03 0.0276 0.0003

Saturn 66546-12-14 22:19 G 26026835.31 26026835.43 26026835.56 0.0276 0.0139

Saturn 66547-03-13 11:31 G 26026923.97 26026923.98 26026923.99 0.0276 0.0275

Jupiter 66550-11-25 20:10 G 26028277.20 26028277.34 26028277.49 0.0484 0.0202

Pluto 66551-05-18 22:34 G 26028451.33 26028451.44 26028451.54 0.0079 0.0061

Mars 66551-08-10 18:00 G 26028535.12 26028535.25 26028535.38 0.1902 0.0361

Pluto 66551-08-15 00:29 G 26028539.37 26028539.52 26028539.66 0.0079 0.0040

Pluto 66551-11-11 02:10 G 26028627.43 26028627.59 26028627.76 0.0078 0.0019

Venus 66552-01-06 23:17 G 26028684.36 26028684.47 26028684.58 0.3686 0.0063

Pluto 66552-02-07 04:05 G 26028715.51 26028715.67 26028715.84 0.0078 0.0003

Pluto 66552-05-05 06:00 G 26028803.59 26028803.75 26028803.91 0.0078 0.0023

Earth 66552-07-01 08:24 G 26028860.77 26028860.85 26028860.92 0.2689 0.1997

Moon 66552-07-01 08:39 G 26028860.78 26028860.86 26028860.93 0.2682 0.2034 *

Pluto 66552-08-01 07:41 G 26028891.69 26028891.82 26028891.97 0.0078 0.0044

Pluto 66552-10-28 09:22 G 26028979.82 26028979.89 26028980.00 0.0078 0.0065

Mars 66554-05-30 02:39 G 26029558.50 26029558.61 26029558.73 0.1620 0.0815

Moon 66554-12-31 06:43 G 26029773.65 26029773.78 26029773.92 0.2636 0.0925

Earth 66554-12-31 06:58 G 26029773.66 26029773.79 26029773.92 0.2642 0.0946 *

Jupiter 66556-10-31 00:15 G 26030443.37 26030443.51 26030443.65 0.0544 0.0014

Venus 66557-07-22 16:19 G 26030708.12 26030708.18 26030708.25 0.3685 0.2907

Venus 66559-02-03 18:15 G 26031269.13 26031269.26 26031269.39 0.3685 0.0703

Earth 66559-06-25 02:24 G 26031410.51 26031410.60 26031410.70 0.2692 0.1514

Moon 66559-06-25 02:53 G 26031410.52 26031410.62 26031410.72 0.2698 0.1403 *

Mars 66560-12-30 21:36 G 26031965.28 26031965.40 26031965.51 0.1900 0.1011

Saturn 66561-01-03 18:58 G 26031969.17 26031969.29 26031969.43 0.0283 0.0163

Saturn 66561-04-02 12:58 G 26032057.87 26032058.04 26032058.20 0.0283 0.0007

Saturn 66561-06-30 06:58 G 26032146.66 26032146.79 26032146.92 0.0283 0.0178

Jupiter 66562-09-13 21:36 G 26032587.30 26032587.40 26032587.51 0.0484 0.0364

Jupiter 66562-12-12 16:19 G 26032677.06 26032677.18 26032677.30 0.0484 0.0326

Mars 66563-10-20 10:48 G 26032988.82 26032988.95 26032989.09 0.1622 0.0056

Uranus 66566-12-12 05:31 G 26034137.67 26034137.73 26034137.81 0.0136 0.0118

Uranus 66567-03-10 09:36 G 26034225.80 26034225.90 26034226.00 0.0136 0.0097

Uranus 66567-06-06 13:27 G 26034313.95 26034314.06 26034314.18 0.0136 0.0077

Uranus 66567-09-02 17:17 G 26034402.10 26034402.22 26034402.36 0.0136 0.0057

Uranus 66567-11-29 21:07 G 26034490.25 26034490.38 26034490.52 0.0136 0.0036

Uranus 66568-02-26 00:58 G 26034578.40 26034578.54 26034578.69 0.0136 0.0016

Uranus 66568-05-24 04:48 G 26034666.56 26034666.70 26034666.85 0.0137 0.0005

Jupiter 66568-08-19 01:27 G 26034753.43 26034753.56 26034753.69 0.0544 0.0214

Uranus 66568-08-20 08:39 G 26034754.72 26034754.86 26034755.00 0.0137 0.0025

Uranus 66568-11-16 12:15 G 26034842.88 26034843.01 26034843.15 0.0137 0.0045

Uranus 66569-02-12 16:05 G 26034931.05 26034931.17 26034931.30 0.0137 0.0065

Uranus 66569-05-11 19:41 G 26035019.22 26035019.32 26035019.44 0.0137 0.0085

Uranus 66569-08-07 23:17 G 26035107.39 26035107.47 26035107.57 0.0137 0.0105

Uranus 66569-11-04 03:07 G 26035195.58 26035195.63 26035195.69 0.0137 0.0124

Earth 66572-06-26 22:19 G 26036161.31 26036161.43 26036161.55 0.2691 0.0230

Moon 66572-06-26 23:17 G 26036161.35 26036161.47 26036161.58 0.2692 0.0235 *

Mars 66573-03-11 18:43 G 26036419.16 26036419.28 26036419.40 0.1623 0.0759

Jupiter 66574-09-30 17:03 G 26036987.06 26036987.21 26036987.37 0.0484 0.0153

Earth 66574-12-26 10:05 G 26037073.84 26037073.92 26037074.01 0.2640 0.2114

Moon 66574-12-26 11:17 G 26037073.89 26037073.97 26037074.06 0.2637 0.2090 *

Saturn 66575-11-07 22:34 G 26037390.33 26037390.44 26037390.56 0.0276 0.0169

Saturn 66576-02-04 12:15 G 26037478.86 26037479.01 26037479.16 0.0276 0.0026

Saturn 66576-05-03 01:41 G 26037567.43 26037567.57 26037567.70 0.0277 0.0114

Saturn 66576-07-30 14:39 G 26037656.05 26037656.11 26037656.17 0.0277 0.0251

Jupiter 66580-06-07 03:07 G 26039063.55 26039063.63 26039063.72 0.0545 0.0427

Jupiter 66580-09-04 17:03 G 26039153.12 26039153.21 26039153.31 0.0544 0.0393

Mars 66582-08-02 02:24 G 26039849.57 26039849.60 26039849.64 0.1625 0.1571

Earth 66585-06-29 18:00 G 26040912.14 26040912.25 26040912.36 0.2690 0.1014

Moon 66585-06-29 18:43 G 26040912.17 26040912.28 26040912.38 0.2687 0.1148 *

Neptune 66586-01-24 05:46 G 26041120.72 26041120.74 26041120.79 0.0088 0.0086

Neptune 66586-04-22 08:24 G 26041208.78 26041208.85 26041208.95 0.0088 0.0077

Neptune 66586-07-19 11:17 G 26041296.87 26041296.97 26041297.08 0.0088 0.0067

Jupiter 66586-07-19 17:31 G 26041297.07 26041297.23 26041297.40 0.0484 0.0028 *

Neptune 66586-10-15 13:55 G 26041384.96 26041385.08 26041385.21 0.0088 0.0058

Neptune 66587-01-11 16:19 G 26041473.05 26041473.18 26041473.34 0.0088 0.0049

Neptune 66587-04-09 18:58 G 26041561.15 26041561.29 26041561.46 0.0088 0.0040

Neptune 66587-07-06 21:51 G 26041649.25 26041649.41 26041649.58 0.0088 0.0030

Neptune 66587-10-03 00:29 G 26041737.36 26041737.52 26041737.70 0.0088 0.0021

Earth 66587-12-29 11:17 G 26041824.83 26041824.97 26041825.11 0.2641 0.0460

Moon 66587-12-29 12:00 G 26041824.86 26041825.00 26041825.14 0.2635 0.0332 *

Neptune 66587-12-30 03:22 G 26041825.47 26041825.64 26041825.82 0.0088 0.0011

Neptune 66588-03-27 06:00 G 26041913.58 26041913.75 26041913.93 0.0088 0.0003

Neptune 66588-06-23 08:53 G 26042001.69 26042001.87 26042002.04 0.0088 0.0008

Neptune 66588-09-19 11:17 G 26042089.81 26042089.97 26042090.15 0.0088 0.0018

Neptune 66588-12-16 14:10 G 26042177.93 26042178.09 26042178.26 0.0088 0.0027

Neptune 66589-03-14 16:48 G 26042266.05 26042266.20 26042266.37 0.0088 0.0037

Neptune 66589-06-10 19:55 G 26042354.18 26042354.33 26042354.48 0.0088 0.0046

Neptune 66589-09-06 22:34 G 26042442.31 26042442.44 26042442.58 0.0088 0.0056

Neptune 66589-12-04 01:12 G 26042530.44 26042530.55 26042530.68 0.0088 0.0066

Neptune 66590-03-02 03:51 G 26042618.59 26042618.66 26042618.77 0.0088 0.0076

Saturn 66590-05-23 21:07 G 26042701.27 26042701.38 26042701.50 0.0283 0.0194

Neptune 66590-05-29 06:58 G 26042706.76 26042706.79 26042706.83 0.0088 0.0086

Saturn 66590-08-20 14:39 G 26042789.95 26042790.11 26042790.28 0.0283 0.0028

Saturn 66590-11-17 08:39 G 26042878.72 26042878.86 26042879.00 0.0283 0.0144

Mars 66591-02-08 18:15 G 26042962.13 26042962.26 26042962.39 0.1903 0.0536

Moon 66592-06-22 11:31 G 26043461.95 26043461.98 26043462.02 0.2700 0.2577

Earth 66592-06-22 11:31 G 26043461.95 26043461.98 26043462.01 0.2693 0.2579 *

Jupiter 66592-06-23 19:41 G 26043463.19 26043463.32 26043463.45 0.0545 0.0200

Mars 66593-11-28 03:07 G 26043985.52 26043985.63 26043985.74 0.1620 0.0946

Jupiter 66598-05-07 18:43 G 26045607.13 26045607.28 26045607.43 0.0484 0.0195

Earth 66598-07-02 13:27 G 26045662.99 26045663.06 26045663.12 0.2689 0.2224

Moon 66598-07-02 13:27 G 26045663.00 26045663.06 26045663.13 0.2682 0.2194 *

Mars 66600-07-01 21:36 G 26046392.28 26046392.40 26046392.52 0.1900 0.0859

Moon 66601-01-01 12:29 G 26046575.89 26046576.02 26046576.15 0.2636 0.1189

Earth 66601-01-01 12:43 G 26046575.91 26046576.03 26046576.16 0.2642 0.1267 *

Venus 66603-01-29 03:51 G 26047333.57 26047333.66 26047333.76 0.3686 0.1933

Mars 66603-04-21 11:03 G 26047415.83 26047415.96 26047416.10 0.1621 0.0169

Jupiter 66604-04-12 22:19 G 26047773.29 26047773.43 26047773.57 0.0545 0.0009

Saturn 66605-03-27 23:17 G 26048122.39 26048122.47 26048122.57 0.0276 0.0217

Saturn 66605-06-24 13:12 G 26048210.91 26048211.05 26048211.19 0.0276 0.0074

Earth 66605-06-26 07:27 G 26048212.71 26048212.81 26048212.92 0.2692 0.1273

Moon 66605-06-26 08:10 G 26048212.73 26048212.84 26048212.94 0.2697 0.1265 *

Saturn 66605-09-21 02:39 G 26048299.47 26048299.61 26048299.75 0.0276 0.0067

Saturn 66605-12-18 15:51 G 26048388.06 26048388.16 26048388.25 0.0276 0.0204

Uranus 66607-07-03 17:17 G 26048950.14 26048950.22 26048950.32 0.0142 0.0122

Uranus 66607-09-29 23:31 G 26049038.37 26049038.48 26049038.62 0.0142 0.0095

Uranus 66607-12-27 06:00 G 26049126.61 26049126.75 26049126.91 0.0142 0.0068

Uranus 66608-03-24 12:29 G 26049214.86 26049215.02 26049215.19 0.0142 0.0041

Uranus 66608-06-20 18:58 G 26049303.12 26049303.29 26049303.47 0.0142 0.0013

Venus 66608-08-13 21:07 G 26049357.28 26049357.38 26049357.49 0.3686 0.1081

Uranus 66608-09-17 01:41 G 26049391.39 26049391.57 26049391.74 0.0142 0.0015

Uranus 66608-12-14 08:10 G 26049479.67 26049479.84 26049480.01 0.0142 0.0043

Uranus 66609-03-12 14:39 G 26049567.96 26049568.11 26049568.27 0.0142 0.0071

Uranus 66609-06-08 21:22 G 26049656.27 26049656.39 26049656.52 0.0141 0.0099

Uranus 66609-09-05 04:05 G 26049744.59 26049744.67 26049744.74 0.0141 0.0127

Jupiter 66610-02-24 19:27 G 26049917.21 26049917.31 26049917.42 0.0484 0.0365

Jupiter 66610-05-25 14:10 G 26050006.97 26050007.09 26050007.22 0.0484 0.0325

Mars 66612-09-10 18:58 G 26050846.16 26050846.29 26050846.42 0.1623 0.0628

Venus 66615-09-11 18:15 G 26051942.13 26051942.26 26051942.38 0.3685 0.1227

Jupiter 66616-01-31 00:29 G 26052083.39 26052083.52 26052083.65 0.0545 0.0196

Earth 66618-06-29 03:22 G 26052963.52 26052963.64 26052963.76 0.2691 0.0017

Moon 66618-06-29 04:19 G 26052963.56 26052963.68 26052963.80 0.2691 0.0182 *

Saturn 66619-10-11 20:24 G 26053433.28 26053433.35 26053433.42 0.0283 0.0252

Saturn 66620-01-08 13:55 G 26053521.93 26053522.08 26053522.24 0.0283 0.0086

Saturn 66620-04-06 07:41 G 26053610.67 26053610.82 26053610.98 0.0283 0.0083

Saturn 66620-07-04 01:41 G 26053699.52 26053699.57 26053699.65 0.0282 0.0257

Earth 66620-12-27 15:51 G 26053876.06 26053876.16 26053876.27 0.2640 0.1817

Moon 66620-12-27 17:03 G 26053876.10 26053876.21 26053876.32 0.2636 0.1616 *

Mars 66622-02-01 02:39 G 26054276.55 26054276.61 26054276.68 0.1625 0.1441

Jupiter 66622-03-13 15:07 G 26054316.98 26054317.13 26054317.29 0.0484 0.0155

Jupiter 66627-11-19 01:41 G 26056393.48 26056393.57 26056393.65 0.0544 0.0423

Jupiter 66628-02-16 15:36 G 26056483.06 26056483.15 26056483.24 0.0544 0.0397

Mars 66630-08-10 18:15 G 26057389.14 26057389.26 26057389.39 0.1902 0.0673

Earth 66631-07-01 23:03 G 26057714.36 26057714.46 26057714.56 0.2690 0.1247

Moon 66631-07-01 23:46 G 26057714.38 26057714.49 26057714.59 0.2686 0.1248 *

Mars 66633-05-30 03:07 G 26058412.53 26058412.63 26058412.73 0.1620 0.1066

Jupiter 66633-12-30 16:05 G 26058627.00 26058627.17 26058627.34 0.0484 0.0018

Earth 66633-12-30 17:03 G 26058627.07 26058627.21 26058627.35 0.2641 0.0162 *

Moon 66633-12-30 17:46 G 26058627.09 26058627.24 26058627.38 0.2636 0.0189 *

Saturn 66634-08-15 02:10 G 26058854.53 26058854.59 26058854.66 0.0276 0.0245

Saturn 66634-11-11 16:05 G 26058943.03 26058943.17 26058943.31 0.0277 0.0101

Saturn 66635-02-08 05:31 G 26059031.59 26059031.73 26059031.88 0.0277 0.0041

Saturn 66635-05-07 18:43 G 26059120.18 26059120.28 26059120.40 0.0277 0.0180

Moon 66638-06-24 16:48 G 26060264.14 26060264.20 26060264.26 0.2700 0.2319

Earth 66638-06-24 16:34 G 26060264.14 26060264.19 26060264.25 0.2693 0.2334 *

Jupiter 66639-12-05 17:31 G 26060793.11 26060793.23 26060793.36 0.0544 0.0193

Mars 66639-12-31 21:51 G 26060819.28 26060819.41 26060819.53 0.1900 0.0720

Mars 66642-10-20 11:17 G 26061842.84 26061842.97 26061843.11 0.1622 0.0302

Earth 66644-07-03 18:29 G 26062465.22 26062465.27 26062465.31 0.2689 0.2450

Moon 66644-07-03 18:29 G 26062465.23 26062465.27 26062465.31 0.2681 0.2505 *

Jupiter 66645-10-18 16:34 G 26062937.04 26062937.19 26062937.35 0.0484 0.0194

Moon 66647-01-02 18:15 G 26063378.15 26063378.26 26063378.38 0.2636 0.1584

Earth 66647-01-02 18:43 G 26063378.17 26063378.28 26063378.40 0.2643 0.1594 *

Saturn 66649-02-27 22:48 G 26064165.44 26064165.45 26064165.49 0.0283 0.0279

Saturn 66649-05-27 16:19 G 26064254.04 26064254.18 26064254.33 0.0283 0.0114

Saturn 66649-08-24 10:05 G 26064342.76 26064342.92 26064343.08 0.0283 0.0055

Saturn 66649-11-21 04:05 G 26064431.58 26064431.67 26064431.77 0.0282 0.0227

Uranus 66650-10-06 09:22 G 26064750.86 26064750.89 26064750.93 0.0136 0.0130

Uranus 66651-01-02 13:12 G 26064838.97 26064839.05 26064839.14 0.0136 0.0110

Uranus 66651-03-31 17:17 G 26064927.11 26064927.22 26064927.33 0.0136 0.0089

Earth 66651-06-27 12:43 G 26065014.92 26065015.03 26065015.14 0.2692 0.1032

Moon 66651-06-27 13:27 G 26065014.94 26065015.06 26065015.17 0.2696 0.0943 *

Uranus 66651-06-27 21:07 G 26065015.26 26065015.38 26065015.51 0.0136 0.0069

Jupiter 66651-09-23 19:55 G 26065103.19 26065103.33 26065103.47 0.0545 0.0008

Uranus 66651-09-24 00:58 G 26065103.41 26065103.54 26065103.68 0.0136 0.0048 *

Uranus 66651-12-21 04:48 G 26065191.56 26065191.70 26065191.84 0.0136 0.0028

Mars 66652-03-11 19:27 G 26065273.17 26065273.31 26065273.44 0.1623 0.0496

Uranus 66652-03-18 08:39 G 26065279.72 26065279.86 26065280.00 0.0136 0.0008

Uranus 66652-06-14 12:29 G 26065367.88 26065368.02 26065368.16 0.0136 0.0012

Uranus 66652-09-10 16:05 G 26065456.04 26065456.17 26065456.31 0.0137 0.0033

Uranus 66652-12-07 19:55 G 26065544.20 26065544.33 26065544.46 0.0137 0.0052

Uranus 66653-03-05 23:31 G 26065632.37 26065632.48 26065632.61 0.0137 0.0072

Uranus 66653-06-02 03:22 G 26065720.54 26065720.64 26065720.75 0.0137 0.0092

Uranus 66653-08-29 06:58 G 26065808.72 26065808.79 26065808.88 0.0137 0.0112

Uranus 66653-11-25 10:48 G 26065896.91 26065896.95 26065896.99 0.0137 0.0131

Jupiter 66657-08-06 17:46 G 26067247.14 26067247.24 26067247.35 0.0483 0.0360

Jupiter 66657-11-04 12:15 G 26067336.90 26067337.01 26067337.14 0.0484 0.0329

Venus 66659-09-05 01:55 G 26068006.47 26068006.58 26068006.68 0.3686 0.0806

Mars 66661-08-02 03:07 G 26068703.54 26068703.63 26068703.71 0.1625 0.1308

Jupiter 66663-07-12 22:34 G 26069413.31 26069413.44 26069413.56 0.0545 0.0204

Saturn 66664-03-30 17:17 G 26069675.10 26069675.22 26069675.35 0.0276 0.0146

Saturn 66664-06-27 06:58 G 26069763.64 26069763.79 26069763.93 0.0276 0.0006

Earth 66664-06-29 08:24 G 26069765.74 26069765.85 26069765.97 0.2691 0.0249

Moon 66664-06-29 09:22 G 26069765.77 26069765.89 26069766.01 0.2691 0.0271 *

Saturn 66664-09-23 20:10 G 26069852.22 26069852.34 26069852.47 0.0276 0.0135

Saturn 66664-12-21 09:22 G 26069940.87 26069940.89 26069940.91 0.0276 0.0272

Venus 66665-03-20 18:58 G 26070030.20 26070030.29 26070030.38 0.3685 0.2182

Venus 66666-10-02 16:48 G 26070591.10 26070591.20 26070591.31 0.3684 0.2311

Earth 66666-12-28 21:51 G 26070678.29 26070678.41 26070678.52 0.2640 0.1506

Moon 66666-12-28 22:48 G 26070678.34 26070678.45 26070678.57 0.2636 0.1487 *

Neptune 66667-02-21 06:29 G 26070732.75 26070732.77 26070732.79 0.0089 0.0088

Neptune 66667-05-20 07:55 G 26070820.78 26070820.83 26070820.91 0.0089 0.0080

Neptune 66667-08-16 09:36 G 26070908.83 26070908.90 26070909.00 0.0089 0.0072

Neptune 66667-11-12 11:31 G 26070996.89 26070996.98 26070997.09 0.0089 0.0063

Neptune 66668-02-08 13:12 G 26071084.95 26071085.05 26071085.18 0.0089 0.0055

Neptune 66668-05-06 15:07 G 26071173.01 26071173.13 26071173.26 0.0089 0.0046

Neptune 66668-08-02 16:48 G 26071261.08 26071261.20 26071261.34 0.0089 0.0038

Neptune 66668-10-29 18:29 G 26071349.14 26071349.27 26071349.42 0.0089 0.0030

Neptune 66669-01-25 20:24 G 26071437.21 26071437.35 26071437.49 0.0089 0.0021

Neptune 66669-04-23 22:05 G 26071525.28 26071525.42 26071525.57 0.0089 0.0013

Neptune 66669-07-20 23:46 G 26071613.35 26071613.49 26071613.64 0.0089 0.0005

Jupiter 66669-08-23 12:58 G 26071646.88 26071647.04 26071647.20 0.0484 0.0152

Neptune 66669-10-17 01:27 G 26071701.42 26071701.56 26071701.71 0.0089 0.0005

Neptune 66670-01-13 03:07 G 26071789.49 26071789.63 26071789.78 0.0089 0.0013

Mars 66670-02-08 18:43 G 26071816.15 26071816.28 26071816.40 0.1902 0.0832

Neptune 66670-04-11 04:48 G 26071877.57 26071877.70 26071877.85 0.0089 0.0021

Neptune 66670-07-08 06:29 G 26071965.64 26071965.77 26071965.91 0.0089 0.0029

Neptune 66670-10-04 08:10 G 26072053.71 26072053.84 26072053.97 0.0089 0.0037

Neptune 66670-12-31 09:51 G 26072141.79 26072141.91 26072142.04 0.0089 0.0045

Neptune 66671-03-29 11:31 G 26072229.87 26072229.98 26072230.10 0.0089 0.0053

Neptune 66671-06-25 13:12 G 26072317.95 26072318.05 26072318.16 0.0089 0.0061

Neptune 66671-09-21 14:53 G 26072406.03 26072406.12 26072406.21 0.0089 0.0069

Neptune 66671-12-18 16:19 G 26072494.12 26072494.18 26072494.26 0.0089 0.0077

Neptune 66672-03-15 18:00 G 26072582.21 26072582.25 26072582.30 0.0089 0.0085

Venus 66672-04-17 18:00 G 26072615.19 26072615.25 26072615.32 0.3686 0.3177

Mars 66672-11-28 03:22 G 26072839.55 26072839.64 26072839.73 0.1620 0.1190

Jupiter 66675-05-01 00:29 G 26073723.43 26073723.52 26073723.61 0.0545 0.0408

Jupiter 66675-07-29 14:39 G 26073813.02 26073813.11 26073813.19 0.0544 0.0413

Earth 66677-07-02 04:05 G 26074516.57 26074516.67 26074516.77 0.2690 0.1474

Moon 66677-07-02 04:34 G 26074516.60 26074516.69 26074516.78 0.2684 0.1592 *

Saturn 66678-10-14 15:36 G 26074986.02 26074986.15 26074986.28 0.0283 0.0173

Saturn 66679-01-11 09:07 G 26075074.72 26075074.88 26075075.05 0.0283 0.0008

Saturn 66679-04-10 03:07 G 26075163.50 26075163.63 26075163.77 0.0282 0.0165

Mars 66679-07-01 22:05 G 26075246.29 26075246.42 26075246.54 0.1900 0.0559

Moon 66679-12-31 23:17 G 26075429.32 26075429.47 26075429.61 0.2635 0.0279

Earth 66679-12-31 23:03 G 26075429.32 26075429.46 26075429.60 0.2641 0.0170 *

Jupiter 66681-06-11 14:10 G 26075956.92 26075957.09 26075957.25 0.0484 0.0018

Mars 66682-04-20 11:31 G 26076269.85 26076269.98 26076270.12 0.1622 0.0425

Moon 66684-06-24 22:05 G 26077066.34 26077066.42 26077066.49 0.2700 0.2102

Earth 66684-06-24 21:51 G 26077066.34 26077066.41 26077066.48 0.2693 0.2084 *

Jupiter 66687-05-17 16:05 G 26078123.04 26078123.17 26078123.30 0.0544 0.0196

Mars 66688-11-21 01:41 G 26078676.57 26078676.57 26078676.58 0.1897 0.1894

Moon 66690-07-04 23:31 G 26079267.45 26079267.48 26079267.50 0.2682 0.2609

Earth 66690-07-04 23:31 G 26079267.47 26079267.48 26079267.48 0.2688 0.2675 *

Uranus 66691-04-26 18:58 G 26079563.26 26079563.29 26079563.33 0.0142 0.0139

Uranus 66691-07-24 00:58 G 26079651.45 26079651.54 26079651.66 0.0142 0.0112

Mars 66691-09-10 19:27 G 26079700.18 26079700.31 26079700.45 0.1623 0.0368

Uranus 66691-10-20 07:27 G 26079739.68 26079739.81 26079739.96 0.0142 0.0085

Uranus 66692-01-16 14:10 G 26079827.93 26079828.09 26079828.24 0.0142 0.0057

Uranus 66692-04-13 20:24 G 26079916.18 26079916.35 26079916.52 0.0142 0.0030

Uranus 66692-07-11 02:53 G 26080004.45 26080004.62 26080004.80 0.0142 0.0004

Uranus 66692-10-07 09:22 G 26080092.72 26080092.89 26080093.07 0.0142 0.0026

Moon 66693-01-03 00:15 G 26080180.40 26080180.51 26080180.61 0.2636 0.1788

Earth 66693-01-03 00:43 G 26080180.43 26080180.53 26080180.63 0.2643 0.1915 *

Uranus 66693-01-03 15:51 G 26080181.01 26080181.16 26080181.33 0.0142 0.0054

Jupiter 66693-03-30 14:53 G 26080266.98 26080267.12 26080267.28 0.0484 0.0189

Uranus 66693-04-01 22:19 G 26080269.30 26080269.43 26080269.59 0.0142 0.0082

Uranus 66693-06-29 05:03 G 26080357.61 26080357.71 26080357.83 0.0141 0.0110

Saturn 66693-08-17 19:55 G 26080407.22 26080407.33 26080407.45 0.0277 0.0175

Uranus 66693-09-25 11:46 G 26080445.96 26080445.99 26080446.04 0.0141 0.0138

Saturn 66693-11-14 09:36 G 26080495.76 26080495.90 26080496.05 0.0277 0.0033

Saturn 66694-02-10 23:03 G 26080584.33 26080584.46 26080584.60 0.0277 0.0108

Saturn 66694-05-10 12:15 G 26080672.95 26080673.01 26080673.08 0.0277 0.0246

Earth 66697-06-27 17:46 G 26081817.13 26081817.24 26081817.35 0.2692 0.0787

Moon 66697-06-27 18:29 G 26081817.16 26081817.27 26081817.39 0.2695 0.0702 *

Jupiter 66699-03-05 18:00 G 26082433.11 26082433.25 26082433.39 0.0544 0.0013

Mars 66701-02-01 03:22 G 26083130.55 26083130.64 26083130.74 0.1625 0.1167

Jupiter 66705-01-17 15:51 G 26084577.05 26084577.16 26084577.27 0.0484 0.0360

Jupiter 66705-04-17 10:19 G 26084666.81 26084666.93 26084667.05 0.0484 0.0329

Saturn 66708-03-03 18:29 G 26085718.16 26085718.27 26085718.39 0.0283 0.0196

Saturn 66708-05-31 12:00 G 26085806.84 26085807.00 26085807.16 0.0283 0.0030

Saturn 66708-08-28 05:46 G 26085895.60 26085895.74 26085895.89 0.0282 0.0140

Mars 66709-08-10 18:58 G 26086243.17 26086243.29 26086243.40 0.1903 0.0992

Earth 66710-07-01 13:27 G 26086567.95 26086568.06 26086568.18 0.2691 0.0481

Moon 66710-07-01 14:24 G 26086567.98 26086568.10 26086568.21 0.2690 0.0614 *

Venus 66710-09-27 06:15 G 26086655.69 26086655.76 26086655.84 0.3687 0.2710

Jupiter 66710-12-23 19:55 G 26086743.21 26086743.33 26086743.46 0.0545 0.0220

Pluto 66711-03-20 10:05 G 26086829.86 26086829.92 26086830.01 0.0065 0.0056

Pluto 66711-06-16 11:03 G 26086917.86 26086917.96 26086918.07 0.0065 0.0045

Pluto 66711-09-12 11:46 G 26087005.87 26087005.99 26087006.12 0.0065 0.0035

Pluto 66711-12-09 12:15 G 26087093.88 26087094.01 26087094.16 0.0065 0.0024

Pluto 66712-03-06 13:12 G 26087181.91 26087182.05 26087182.20 0.0065 0.0013

Mars 66712-05-30 03:51 G 26087266.58 26087266.66 26087266.73 0.1620 0.1319

Pluto 66712-06-02 13:55 G 26087269.93 26087270.08 26087270.23 0.0065 0.0002

Pluto 66712-08-29 14:39 G 26087357.96 26087358.11 26087358.26 0.0065 0.0008

Pluto 66712-11-25 15:07 G 26087446.00 26087446.13 26087446.28 0.0066 0.0020

Earth 66712-12-30 03:36 G 26087480.52 26087480.65 26087480.77 0.2640 0.1206

Moon 66712-12-30 04:34 G 26087480.56 26087480.69 26087480.82 0.2636 0.1031 *

Pluto 66713-02-21 15:36 G 26087534.04 26087534.15 26087534.30 0.0066 0.0031

Pluto 66713-05-20 16:34 G 26087622.08 26087622.19 26087622.31 0.0066 0.0041

Pluto 66713-08-16 17:17 G 26087710.14 26087710.22 26087710.32 0.0066 0.0052

Pluto 66713-11-12 17:46 G 26087798.22 26087798.24 26087798.30 0.0066 0.0063

Venus 66716-04-11 23:31 G 26088679.37 26088679.48 26088679.59 0.3686 0.0351

Jupiter 66717-02-03 11:03 G 26088976.81 26088976.96 26088977.12 0.0484 0.0156

Mars 66718-12-31 22:19 G 26089673.30 26089673.43 26089673.56 0.1900 0.0399

Mars 66721-10-20 11:46 G 26090696.86 26090696.99 26090697.12 0.1621 0.0551

Venus 66721-10-26 16:48 G 26090703.15 26090703.20 26090703.25 0.3685 0.3282

Jupiter 66722-10-11 22:19 G 26091053.34 26091053.43 26091053.52 0.0545 0.0419

Saturn 66723-01-05 21:36 G 26091139.31 26091139.40 26091139.48 0.0276 0.0217

Jupiter 66723-01-09 12:29 G 26091142.93 26091143.02 26091143.11 0.0544 0.0404

Saturn 66723-04-04 11:17 G 26091227.83 26091227.97 26091228.11 0.0276 0.0074

Venus 66723-05-10 16:48 G 26091264.07 26091264.20 26091264.33 0.3685 0.0419

Saturn 66723-07-02 00:43 G 26091316.39 26091316.53 26091316.67 0.0276 0.0066

Earth 66723-07-04 09:07 G 26091318.79 26091318.88 26091318.97 0.2689 0.1704

Moon 66723-07-04 09:36 G 26091318.81 26091318.90 26091318.99 0.2683 0.1679 *

Saturn 66723-09-28 13:55 G 26091404.99 26091405.08 26091405.18 0.0276 0.0204

Moon 66726-01-02 04:48 G 26092231.56 26092231.70 26092231.85 0.2635 0.0402

Earth 66726-01-02 04:48 G 26092231.56 26092231.70 26092231.84 0.2642 0.0494 *

Mars 66728-05-23 01:55 G 26093103.53 26093103.58 26093103.63 0.1897 0.1738

Jupiter 66728-11-22 11:46 G 26093286.83 26093286.99 26093287.16 0.0484 0.0023

Earth 66730-06-27 02:53 G 26093868.54 26093868.62 26093868.71 0.2693 0.1841

Moon 66730-06-27 03:07 G 26093868.55 26093868.63 26093868.72 0.2699 0.1769 *

Mars 66731-03-12 19:55 G 26094127.19 26094127.33 26094127.46 0.1623 0.0239

Uranus 66734-10-27 17:17 G 26095452.16 26095452.22 26095452.29 0.0136 0.0121

Jupiter 66734-10-28 14:53 G 26095453.00 26095453.12 26095453.25 0.0544 0.0209

Uranus 66735-01-23 21:22 G 26095540.29 26095540.39 26095540.48 0.0136 0.0100

Uranus 66735-04-22 00:58 G 26095628.43 26095628.54 26095628.66 0.0136 0.0080

Uranus 66735-07-19 05:03 G 26095716.58 26095716.71 26095716.84 0.0136 0.0060

Uranus 66735-10-15 08:53 G 26095804.73 26095804.87 26095805.01 0.0136 0.0039

Uranus 66736-01-11 12:43 G 26095892.89 26095893.03 26095893.17 0.0136 0.0019

Uranus 66736-04-08 16:34 G 26095981.04 26095981.19 26095981.33 0.0136 0.0003

Uranus 66736-07-05 20:10 G 26096069.20 26096069.34 26096069.49 0.0136 0.0022

Uranus 66736-10-02 00:00 G 26096157.37 26096157.50 26096157.64 0.0137 0.0041

Uranus 66736-12-29 03:36 G 26096245.53 26096245.65 26096245.78 0.0137 0.0062

Uranus 66737-03-27 07:27 G 26096333.70 26096333.81 26096333.93 0.0137 0.0081

Uranus 66737-06-23 11:03 G 26096421.87 26096421.96 26096422.06 0.0137 0.0101

Saturn 66737-07-21 17:31 G 26096450.17 26096450.23 26096450.30 0.0283 0.0256

Uranus 66737-09-19 14:39 G 26096510.06 26096510.11 26096510.18 0.0137 0.0121

Saturn 66737-10-18 11:03 G 26096538.81 26096538.96 26096539.11 0.0283 0.0090

Saturn 66738-01-15 04:48 G 26096627.54 26096627.70 26096627.86 0.0283 0.0078

Saturn 66738-04-13 22:48 G 26096716.38 26096716.45 26096716.53 0.0282 0.0250

Moon 66739-01-05 06:00 G 26096982.67 26096982.75 26096982.82 0.2638 0.2243

Earth 66739-01-05 06:43 G 26096982.70 26096982.78 26096982.85 0.2643 0.2244 *

Mars 66740-08-02 03:36 G 26097557.54 26097557.65 26097557.75 0.1625 0.1042

Jupiter 66740-09-10 12:58 G 26097596.89 26097597.04 26097597.19 0.0484 0.0187

Earth 66743-06-29 22:48 G 26098619.34 26098619.45 26098619.57 0.2692 0.0552

Moon 66743-06-29 23:46 G 26098619.37 26098619.49 26098619.60 0.2694 0.0476 *

Earth 66745-12-28 08:24 G 26099531.82 26099531.85 26099531.89 0.2640 0.2520

Moon 66745-12-28 09:51 G 26099531.85 26099531.91 26099531.96 0.2638 0.2405 *

Jupiter 66746-08-16 16:34 G 26099763.05 26099763.19 26099763.33 0.0544 0.0016

Mars 66749-02-08 18:58 G 26100670.18 26100670.29 26100670.40 0.1902 0.1139

Neptune 66750-10-23 03:51 G 26101291.62 26101291.66 26101291.73 0.0088 0.0083

Neptune 66751-01-19 06:29 G 26101379.69 26101379.77 26101379.87 0.0088 0.0074

Neptune 66751-04-17 08:53 G 26101467.77 26101467.87 26101468.00 0.0088 0.0065

Neptune 66751-07-14 12:00 G 26101555.87 26101556.00 26101556.13 0.0088 0.0055

Neptune 66751-10-10 14:24 G 26101643.96 26101644.10 26101644.25 0.0088 0.0046

Mars 66751-11-29 03:51 G 26101693.60 26101693.66 26101693.72 0.1620 0.1438

Neptune 66752-01-06 17:03 G 26101732.06 26101732.21 26101732.38 0.0088 0.0037

Neptune 66752-04-03 19:55 G 26101820.16 26101820.33 26101820.49 0.0088 0.0027

Saturn 66752-05-24 23:31 G 26101871.43 26101871.48 26101871.55 0.0277 0.0251

Jupiter 66752-06-29 13:55 G 26101906.98 26101907.08 26101907.20 0.0484 0.0356

Neptune 66752-06-30 22:34 G 26101908.27 26101908.44 26101908.61 0.0088 0.0018

Saturn 66752-08-21 13:41 G 26101959.93 26101960.07 26101960.20 0.0277 0.0106

Neptune 66752-09-27 01:12 G 26101996.38 26101996.55 26101996.73 0.0088 0.0009

Jupiter 66752-09-27 08:39 G 26101996.74 26101996.86 26101996.98 0.0484 0.0334

Saturn 66752-11-18 03:07 G 26102048.49 26102048.63 26102048.78 0.0277 0.0036

Neptune 66752-12-24 03:51 G 26102084.49 26102084.66 26102084.84 0.0088 0.0002

Saturn 66753-02-14 16:34 G 26102137.08 26102137.19 26102137.30 0.0277 0.0175

Neptune 66753-03-22 06:29 G 26102172.60 26102172.77 26102172.95 0.0088 0.0011

Neptune 66753-06-18 09:22 G 26102260.72 26102260.89 26102261.06 0.0088 0.0020

Neptune 66753-09-14 12:00 G 26102348.84 26102349.00 26102349.17 0.0088 0.0030

Neptune 66753-12-11 14:53 G 26102436.96 26102437.12 26102437.28 0.0088 0.0039

Neptune 66754-03-09 17:17 G 26102525.09 26102525.22 26102525.38 0.0088 0.0049

Neptune 66754-06-05 19:55 G 26102613.22 26102613.33 26102613.48 0.0088 0.0059

Neptune 66754-09-01 23:03 G 26102701.36 26102701.46 26102701.58 0.0088 0.0068

Neptune 66754-11-29 01:41 G 26102789.50 26102789.57 26102789.66 0.0088 0.0078

Neptune 66755-02-25 04:48 G 26102877.70 26102877.70 26102877.71 0.0088 0.0088

Earth 66756-07-01 18:43 G 26103370.16 26103370.28 26103370.39 0.2690 0.0716

Moon 66756-07-01 19:27 G 26103370.19 26103370.31 26103370.42 0.2688 0.0773 *

Jupiter 66758-06-04 18:00 G 26104073.13 26104073.25 26104073.38 0.0544 0.0223

Mars 66758-07-01 22:19 G 26104100.29 26104100.43 26104100.56 0.1900 0.0264

Earth 66758-12-31 09:22 G 26104282.76 26104282.89 26104283.02 0.2641 0.0890

Moon 66758-12-31 10:19 G 26104282.79 26104282.93 26104283.06 0.2636 0.0865 *

Mars 66761-04-20 12:15 G 26105123.88 26105124.01 26105124.13 0.1622 0.0682

Jupiter 66764-07-16 08:53 G 26106306.72 26106306.87 26106307.03 0.0484 0.0155

Saturn 66766-12-08 20:53 G 26107182.34 26107182.37 26107182.40 0.0283 0.0277

Saturn 66767-03-07 14:10 G 26107270.94 26107271.09 26107271.24 0.0283 0.0113

Venus 66767-05-04 04:05 G 26107328.58 26107328.67 26107328.77 0.3687 0.1577

Saturn 66767-06-04 07:41 G 26107359.67 26107359.82 26107359.99 0.0283 0.0056

Saturn 66767-09-01 01:41 G 26107448.48 26107448.57 26107448.68 0.0282 0.0227

Mars 66767-11-22 02:24 G 26107530.52 26107530.60 26107530.67 0.1897 0.1578

Earth 66769-07-04 14:10 G 26108121.01 26108121.09 26108121.17 0.2689 0.1931

Moon 66769-07-04 14:24 G 26108121.03 26108121.10 26108121.18 0.2683 0.2028 *

Jupiter 66770-03-23 19:55 G 26108383.24 26108383.33 26108383.41 0.0545 0.0435

Jupiter 66770-06-21 10:05 G 26108472.82 26108472.92 26108473.01 0.0544 0.0390

Mars 66770-09-10 20:10 G 26108554.20 26108554.34 26108554.47 0.1623 0.0111

Moon 66772-01-03 10:34 G 26109033.81 26109033.94 26109034.08 0.2635 0.0878

Earth 66772-01-03 10:48 G 26109033.81 26109033.95 26109034.08 0.2642 0.0803 *

Venus 66772-11-16 21:22 G 26109352.29 26109352.39 26109352.50 0.3686 0.1457

Uranus 66775-05-18 02:53 G 26110264.56 26110264.62 26110264.71 0.0142 0.0127

Uranus 66775-08-14 09:22 G 26110352.77 26110352.89 26110353.01 0.0142 0.0100

Uranus 66775-11-10 15:36 G 26110441.01 26110441.15 26110441.30 0.0142 0.0073

Uranus 66776-02-06 22:05 G 26110529.26 26110529.42 26110529.59 0.0142 0.0046

Jupiter 66776-05-04 09:51 G 26110616.75 26110616.91 26110617.08 0.0484 0.0021

Uranus 66776-05-05 04:34 G 26110617.52 26110617.69 26110617.86 0.0142 0.0018

Earth 66776-06-27 07:55 G 26110670.74 26110670.83 26110670.93 0.2693 0.1597

Moon 66776-06-27 08:39 G 26110670.76 26110670.86 26110670.95 0.2698 0.1610 *

Uranus 66776-08-01 11:03 G 26110705.79 26110705.96 26110706.14 0.0142 0.0009

Uranus 66776-10-28 17:31 G 26110794.07 26110794.23 26110794.40 0.0142 0.0037

Uranus 66777-01-25 00:15 G 26110882.35 26110882.51 26110882.66 0.0142 0.0065

Uranus 66777-04-23 06:43 G 26110970.65 26110970.78 26110970.91 0.0142 0.0093

Uranus 66777-07-20 13:12 G 26111058.97 26111059.05 26111059.15 0.0141 0.0121

Venus 66779-12-15 16:34 G 26111937.07 26111937.19 26111937.32 0.3685 0.1512

Mars 66780-02-01 03:51 G 26111984.55 26111984.66 26111984.78 0.1625 0.0908

Saturn 66782-01-08 15:22 G 26112692.02 26112692.14 26112692.27 0.0276 0.0146

Saturn 66782-04-07 05:03 G 26112780.56 26112780.71 26112780.86 0.0276 0.0004

Jupiter 66782-04-09 12:43 G 26112782.90 26112783.03 26112783.16 0.0545 0.0198

Saturn 66782-07-04 18:29 G 26112869.14 26112869.27 26112869.39 0.0276 0.0135

Saturn 66782-10-01 07:27 G 26112957.79 26112957.81 26112957.84 0.0276 0.0272

Moon 66785-01-05 11:31 G 26113784.92 26113784.98 26113785.04 0.2639 0.2378

Earth 66785-01-05 12:29 G 26113784.99 26113785.02 26113785.05 0.2643 0.2574 *

Jupiter 66788-02-21 10:48 G 26114926.80 26114926.95 26114927.10 0.0484 0.0189

Mars 66788-08-09 19:12 G 26115097.20 26115097.30 26115097.40 0.1902 0.1289

Earth 66789-06-30 04:05 G 26115421.55 26115421.67 26115421.78 0.2691 0.0325

Moon 66789-06-30 04:48 G 26115421.58 26115421.70 26115421.82 0.2694 0.0189 *

Mars 66791-05-30 04:05 G 26116120.64 26116120.67 26116120.71 0.1620 0.1562

Earth 66791-12-29 14:10 G 26116334.02 26116334.09 26116334.17 0.2640 0.2221

Moon 66791-12-29 15:36 G 26116334.06 26116334.15 26116334.23 0.2638 0.2073 *

Jupiter 66794-01-26 15:07 G 26117092.99 26117093.13 26117093.27 0.0545 0.0001

Saturn 66796-07-24 13:12 G 26118002.92 26118003.05 26118003.18 0.0283 0.0173

Saturn 66796-10-21 06:43 G 26118091.62 26118091.78 26118091.94 0.0283 0.0007

Saturn 66797-01-18 00:29 G 26118180.39 26118180.52 26118180.66 0.0282 0.0164

Mars 66797-12-30 22:34 G 26118527.31 26118527.44 26118527.58 0.1900 0.0097

Pluto 66799-06-16 03:51 G 26119059.59 26119059.66 26119059.73 0.0079 0.0071

Pluto 66799-09-12 05:46 G 26119147.61 26119147.74 26119147.87 0.0079 0.0050

Pluto 66799-12-09 07:41 G 26119235.67 26119235.82 26119235.98 0.0079 0.0029

Jupiter 66799-12-10 12:00 G 26119236.90 26119237.00 26119237.11 0.0484 0.0354

Pluto 66800-03-06 09:36 G 26119323.73 26119323.90 26119324.07 0.0078 0.0008

Jupiter 66800-03-09 06:29 G 26119326.66 26119326.77 26119326.89 0.0484 0.0335

Pluto 66800-06-02 11:17 G 26119411.81 26119411.97 26119412.14 0.0078 0.0014

Pluto 66800-08-29 13:12 G 26119499.91 26119500.05 26119500.21 0.0078 0.0034

Mars 66800-10-19 12:15 G 26119550.90 26119551.01 26119551.13 0.1622 0.0804

Pluto 66800-11-25 14:53 G 26119588.02 26119588.12 26119588.25 0.0078 0.0055

Pluto 66801-02-21 16:48 G 26119676.18 26119676.20 26119676.25 0.0078 0.0076

Earth 66802-07-02 23:46 G 26120172.38 26120172.49 26120172.60 0.2690 0.0945

Moon 66802-07-03 00:29 G 26120172.41 26120172.52 26120172.63 0.2686 0.1013 *

Earth 66804-12-31 15:22 G 26121085.00 26121085.14 26121085.27 0.2641 0.0587

Moon 66804-12-31 15:51 G 26121085.02 26121085.16 26121085.30 0.2635 0.0516 *

Jupiter 66805-11-14 16:34 G 26121403.07 26121403.19 26121403.32 0.0544 0.0216

Mars 66807-05-23 02:10 G 26121957.51 26121957.59 26121957.68 0.1897 0.1445

Earth 66809-06-25 17:03 G 26122722.20 26122722.21 26122722.23 0.2693 0.2664

Mars 66810-03-11 20:24 G 26122981.21 26122981.35 26122981.49 0.1623 0.0041

Saturn 66811-05-28 17:17 G 26123424.12 26123424.22 26123424.34 0.0277 0.0182

Saturn 66811-08-25 07:12 G 26123512.65 26123512.80 26123512.95 0.0277 0.0038

Saturn 66811-11-21 20:39 G 26123601.23 26123601.36 26123601.50 0.0277 0.0102

Jupiter 66811-12-27 07:12 G 26123636.65 26123636.80 26123636.96 0.0484 0.0159

Saturn 66812-02-18 09:51 G 26123689.84 26123689.91 26123689.98 0.0277 0.0240

Earth 66815-07-05 19:12 G 26124923.23 26124923.30 26124923.37 0.2689 0.2161

Moon 66815-07-05 19:27 G 26124923.24 26124923.31 26124923.38 0.2683 0.2145 *

Jupiter 66817-09-02 18:15 G 26125713.18 26125713.26 26125713.34 0.0544 0.0432

Jupiter 66817-12-01 08:24 G 26125802.75 26125802.85 26125802.94 0.0544 0.0390

Moon 66818-01-03 16:34 G 26125836.06 26125836.19 26125836.32 0.2635 0.1042

Earth 66818-01-03 16:48 G 26125836.07 26125836.20 26125836.32 0.2642 0.1134 *

Venus 66818-05-25 08:39 G 26125977.83 26125977.86 26125977.89 0.3687 0.3510

Uranus 66818-08-20 20:53 G 26126065.35 26126065.37 26126065.41 0.0136 0.0133

Uranus 66818-11-17 00:58 G 26126153.47 26126153.54 26126153.63 0.0136 0.0112

Uranus 66819-02-13 04:48 G 26126241.60 26126241.70 26126241.82 0.0136 0.0092

Uranus 66819-05-12 08:53 G 26126329.75 26126329.87 26126329.99 0.0136 0.0071

Mars 66819-08-02 04:05 G 26126411.55 26126411.67 26126411.80 0.1625 0.0772

Uranus 66819-08-08 12:43 G 26126417.90 26126418.03 26126418.16 0.0136 0.0051

Uranus 66819-11-04 16:34 G 26126506.05 26126506.19 26126506.33 0.0136 0.0031

Uranus 66820-01-31 20:24 G 26126594.21 26126594.35 26126594.49 0.0136 0.0011

Uranus 66820-04-29 00:15 G 26126682.37 26126682.51 26126682.65 0.0136 0.0010

Uranus 66820-07-26 04:05 G 26126770.53 26126770.67 26126770.80 0.0136 0.0030

Uranus 66820-10-22 07:41 G 26126858.69 26126858.82 26126858.95 0.0137 0.0050

Uranus 66821-01-18 11:17 G 26126946.86 26126946.97 26126947.10 0.0137 0.0070

Uranus 66821-04-16 15:07 G 26127035.03 26127035.13 26127035.24 0.0137 0.0089

Uranus 66821-07-13 18:43 G 26127123.20 26127123.28 26127123.37 0.0137 0.0109

Uranus 66821-10-09 22:19 G 26127211.39 26127211.43 26127211.48 0.0137 0.0129

Earth 66822-06-28 13:12 G 26127472.95 26127473.05 26127473.15 0.2692 0.1351

Moon 66822-06-28 13:41 G 26127472.97 26127473.07 26127473.18 0.2698 0.1215 *

Jupiter 66823-10-15 07:55 G 26127946.66 26127946.83 26127946.99 0.0484 0.0018

Venus 66823-12-09 02:10 G 26128001.48 26128001.59 26128001.70 0.3686 0.0449

Saturn 66825-12-11 16:05 G 26128735.06 26128735.17 26128735.29 0.0283 0.0197

Saturn 66826-03-10 09:36 G 26128823.74 26128823.90 26128824.06 0.0283 0.0031

Saturn 66826-06-07 03:22 G 26128912.50 26128912.64 26128912.79 0.0283 0.0139

Mars 66828-02-08 19:27 G 26129524.23 26129524.31 26129524.40 0.1902 0.1465

Mars 66828-12-22 11:46 G 26129841.96 26129841.99 26129842.01 0.1627 0.1596

Venus 66829-06-23 19:12 G 26130025.23 26130025.30 26130025.38 0.3685 0.2565

Jupiter 66829-09-19 10:19 G 26130112.80 26130112.93 26130113.06 0.0545 0.0185

Venus 66831-01-05 15:36 G 26130586.04 26130586.15 26130586.26 0.3684 0.1997

Neptune 66831-11-19 04:48 G 26130903.68 26130903.70 26130903.75 0.0089 0.0086

Neptune 66832-02-15 06:43 G 26130991.72 26130991.78 26130991.86 0.0089 0.0078

Neptune 66832-05-13 08:24 G 26131079.77 26131079.85 26131079.95 0.0089 0.0069

Neptune 66832-08-09 10:19 G 26131167.83 26131167.93 26131168.04 0.0089 0.0061

Neptune 66832-11-05 12:00 G 26131255.89 26131256.00 26131256.12 0.0089 0.0052

Neptune 66833-02-01 13:55 G 26131343.95 26131344.08 26131344.21 0.0089 0.0044

Neptune 66833-04-30 15:36 G 26131432.02 26131432.15 26131432.29 0.0089 0.0036

Neptune 66833-07-27 17:17 G 26131520.09 26131520.22 26131520.36 0.0089 0.0027

Neptune 66833-10-23 18:58 G 26131608.16 26131608.29 26131608.44 0.0089 0.0019

Neptune 66834-01-19 20:53 G 26131696.22 26131696.37 26131696.51 0.0089 0.0011

Neptune 66834-04-17 22:34 G 26131784.30 26131784.44 26131784.58 0.0089 0.0002

Neptune 66834-07-15 00:15 G 26131872.37 26131872.51 26131872.65 0.0089 0.0006

Neptune 66834-10-11 01:55 G 26131960.44 26131960.58 26131960.72 0.0089 0.0014

Neptune 66835-01-07 03:36 G 26132048.51 26132048.65 26132048.79 0.0089 0.0022

Neptune 66835-04-05 05:17 G 26132136.59 26132136.72 26132136.86 0.0089 0.0030

Earth 66835-07-01 09:07 G 26132223.76 26132223.88 26132224.00 0.2691 0.0071

Moon 66835-07-01 09:51 G 26132223.80 26132223.91 26132224.03 0.2692 0.0075 *

Neptune 66835-07-02 06:58 G 26132224.66 26132224.79 26132224.92 0.0089 0.0039

Jupiter 66835-08-03 09:07 G 26132256.73 26132256.88 26132257.03 0.0484 0.0185

Neptune 66835-09-28 08:39 G 26132312.74 26132312.86 26132312.98 0.0089 0.0047

Neptune 66835-12-25 10:19 G 26132400.82 26132400.93 26132401.04 0.0089 0.0055

Neptune 66836-03-22 11:46 G 26132488.90 26132488.99 26132489.10 0.0089 0.0063

Neptune 66836-06-18 13:27 G 26132576.98 26132577.06 26132577.15 0.0089 0.0071

Venus 66836-07-21 16:34 G 26132610.15 26132610.19 26132610.24 0.3685 0.3450

Neptune 66836-09-14 15:07 G 26132665.07 26132665.13 26132665.20 0.0089 0.0079

Neptune 66836-12-11 16:34 G 26132753.17 26132753.19 26132753.23 0.0089 0.0087

Mars 66837-06-30 22:48 G 26132954.31 26132954.45 26132954.58 0.1900 0.0066

Earth 66837-12-29 20:10 G 26133136.24 26133136.34 26133136.43 0.2640 0.1915

Moon 66837-12-29 21:07 G 26133136.29 26133136.38 26133136.48 0.2637 0.1846 *

Mars 66840-04-19 12:29 G 26133977.91 26133978.02 26133978.14 0.1621 0.0928

Saturn 66840-10-14 19:27 G 26134156.22 26134156.31 26134156.40 0.0276 0.0218

Saturn 66841-01-11 09:22 G 26134244.75 26134244.89 26134245.03 0.0276 0.0075

Saturn 66841-04-09 22:48 G 26134333.31 26134333.45 26134333.59 0.0276 0.0065

Saturn 66841-07-07 12:00 G 26134421.91 26134422.00 26134422.10 0.0276 0.0203

Jupiter 66841-07-08 12:58 G 26134422.90 26134423.04 26134423.17 0.0545 0.0018

Mars 66846-11-21 02:24 G 26136384.51 26136384.60 26136384.70 0.1897 0.1290

Jupiter 66847-05-22 09:51 G 26136566.81 26136566.91 26136567.03 0.0484 0.0355

Jupiter 66847-08-20 04:19 G 26136656.56 26136656.68 26136656.80 0.0484 0.0333

Earth 66848-07-03 04:48 G 26136974.59 26136974.70 26136974.80 0.2690 0.1178

Moon 66848-07-03 05:31 G 26136974.62 26136974.73 26136974.83 0.2686 0.1273 *

Mars 66849-09-09 20:39 G 26137408.22 26137408.36 26137408.49 0.1623 0.0156

Earth 66851-01-01 21:07 G 26137887.24 26137887.38 26137887.52 0.2641 0.0264

Moon 66851-01-01 21:36 G 26137887.25 26137887.40 26137887.54 0.2634 0.0220 *

Jupiter 66853-04-26 15:22 G 26138733.01 26138733.14 26138733.26 0.0545 0.0210

Saturn 66855-04-30 15:07 G 26139467.07 26139467.13 26139467.20 0.0283 0.0257

Moon 66855-06-26 22:19 G 26139524.37 26139524.43 26139524.48 0.2700 0.2363

Earth 66855-06-26 22:19 G 26139524.38 26139524.43 26139524.48 0.2693 0.2416 *

Saturn 66855-07-28 08:24 G 26139555.70 26139555.85 26139556.01 0.0283 0.0092

Saturn 66855-10-25 02:10 G 26139644.43 26139644.59 26139644.75 0.0283 0.0076

Saturn 66856-01-21 20:10 G 26139733.27 26139733.34 26139733.42 0.0282 0.0247

Mars 66859-01-31 04:19 G 26140838.56 26140838.68 26140838.81 0.1625 0.0646

Uranus 66859-06-07 10:48 G 26140965.86 26140965.95 26140966.05 0.0142 0.0117

Jupiter 66859-06-08 05:17 G 26140966.57 26140966.72 26140966.88 0.0484 0.0162

Uranus 66859-09-03 17:03 G 26141054.09 26141054.21 26141054.35 0.0142 0.0090

Uranus 66859-11-30 23:31 G 26141142.33 26141142.48 26141142.64 0.0142 0.0063

Uranus 66860-02-27 05:46 G 26141230.58 26141230.74 26141230.92 0.0142 0.0036

Uranus 66860-05-25 12:29 G 26141318.84 26141319.02 26141319.19 0.0142 0.0009

Uranus 66860-08-21 18:43 G 26141407.11 26141407.28 26141407.46 0.0142 0.0020

Uranus 66860-11-18 01:12 G 26141495.39 26141495.55 26141495.72 0.0142 0.0048

Uranus 66861-02-14 07:41 G 26141583.69 26141583.82 26141583.98 0.0142 0.0076

Uranus 66861-05-13 14:24 G 26141671.99 26141672.10 26141672.23 0.0142 0.0104

Moon 66861-07-06 00:15 G 26141725.46 26141725.51 26141725.56 0.2683 0.2393

Earth 66861-07-06 00:15 G 26141725.46 26141725.51 26141725.56 0.2689 0.2385 *

Uranus 66861-08-09 21:07 G 26141760.32 26141760.38 26141760.45 0.0142 0.0132

Moon 66864-01-04 22:05 G 26142638.30 26142638.42 26142638.54 0.2636 0.1444

Earth 66864-01-04 22:34 G 26142638.32 26142638.44 26142638.56 0.2642 0.1453 *

Jupiter 66865-02-12 16:48 G 26143043.12 26143043.20 26143043.29 0.0544 0.0425

Jupiter 66865-05-13 06:58 G 26143132.70 26143132.79 26143132.88 0.0544 0.0398

Mars 66867-08-09 19:27 G 26143951.24 26143951.31 26143951.38 0.1902 0.1596

Mars 66868-06-22 12:00 G 26144268.94 26144269.00 26144269.06 0.1627 0.1461

Earth 66868-06-28 18:15 G 26144275.16 26144275.26 26144275.37 0.2692 0.1106

Moon 66868-06-28 18:58 G 26144275.18 26144275.29 26144275.40 0.2697 0.1113 *

Saturn 66870-03-03 20:53 G 26144888.33 26144888.37 26144888.43 0.0276 0.0259

Saturn 66870-05-31 10:48 G 26144976.82 26144976.95 26144977.09 0.0277 0.0115

Saturn 66870-08-28 00:29 G 26145065.38 26145065.52 26145065.67 0.0277 0.0028

Saturn 66870-11-24 13:55 G 26145153.97 26145154.08 26145154.20 0.0277 0.0166

Jupiter 66871-03-27 06:00 G 26145276.59 26145276.75 26145276.92 0.0484 0.0018

Venus 66874-12-30 06:29 G 26146650.69 26146650.77 26146650.86 0.3687 0.2346

Mars 66876-12-29 22:48 G 26147381.32 26147381.45 26147381.59 0.1900 0.0203

Jupiter 66877-03-01 08:53 G 26147442.74 26147442.87 26147443.00 0.0544 0.0191

Mars 66879-10-19 12:58 G 26148404.93 26148405.04 26148405.14 0.1622 0.1058

Venus 66880-07-15 00:00 G 26148674.39 26148674.50 26148674.61 0.3686 0.0714

Earth 66881-07-01 14:10 G 26149025.97 26149026.09 26149026.21 0.2691 0.0169

Moon 66881-07-01 14:53 G 26149026.01 26149026.12 26149026.24 0.2690 0.0342 *

Jupiter 66883-01-13 06:58 G 26149586.64 26149586.79 26149586.94 0.0484 0.0184

Earth 66883-12-31 01:55 G 26149938.47 26149938.58 26149938.68 0.2640 0.1620

Moon 66883-12-31 02:53 G 26149938.50 26149938.62 26149938.73 0.2636 0.1454 *

Saturn 66884-09-16 18:00 G 26150199.25 26150199.25 26150199.25 0.0283 0.0283

Saturn 66884-12-14 11:17 G 26150287.82 26150287.97 26150288.11 0.0283 0.0119

Saturn 66885-03-13 04:48 G 26150376.54 26150376.70 26150376.86 0.0283 0.0049

Saturn 66885-06-09 22:48 G 26150465.35 26150465.45 26150465.56 0.0283 0.0220

Venus 66886-01-28 17:03 G 26150698.21 26150698.21 26150698.22 0.3685 0.3669

Mars 66886-05-22 02:53 G 26150811.51 26150811.62 26150811.72 0.1897 0.1127

Venus 66887-08-12 15:22 G 26151259.01 26151259.14 26151259.28 0.3684 0.0131

Jupiter 66888-12-18 10:34 G 26151752.80 26151752.94 26151753.08 0.0545 0.0022

Mars 66889-03-10 20:53 G 26151835.23 26151835.37 26151835.51 0.1623 0.0282

Earth 66894-07-04 09:51 G 26153776.81 26153776.91 26153777.01 0.2690 0.1408

Moon 66894-07-04 10:19 G 26153776.84 26153776.93 26153777.03 0.2686 0.1442 *

Jupiter 66894-11-01 08:24 G 26153896.74 26153896.85 26153896.96 0.0483 0.0348

Jupiter 66895-01-30 02:39 G 26153986.49 26153986.61 26153986.73 0.0484 0.0339

Earth 66897-01-02 02:53 G 26154689.48 26154689.62 26154689.77 0.2641 0.0092

Moon 66897-01-02 03:22 G 26154689.50 26154689.64 26154689.78 0.2634 0.0057 *

Mars 66898-08-01 04:34 G 26155265.56 26155265.69 26155265.83 0.1625 0.0517

Saturn 66899-10-18 13:12 G 26155708.93 26155709.05 26155709.17 0.0276 0.0149

Saturn 66900-01-15 02:53 G 26155797.47 26155797.62 26155797.77 0.0276 0.0007

Saturn 66900-04-13 16:05 G 26155886.05 26155886.17 26155886.31 0.0276 0.0132

Saturn 66900-07-11 05:17 G 26155974.70 26155974.72 26155974.76 0.0276 0.0268

Jupiter 66900-10-07 12:58 G 26156062.91 26156063.04 26156063.17 0.0545 0.0221

Earth 66901-06-28 03:22 G 26156326.57 26156326.64 26156326.71 0.2693 0.2169

Moon 66901-06-28 03:36 G 26156326.58 26156326.65 26156326.72 0.2700 0.2180 *

Uranus 66902-09-11 05:03 G 26156766.65 26156766.71 26156766.77 0.0136 0.0123

Uranus 66902-12-08 08:53 G 26156854.78 26156854.87 26156854.97 0.0136 0.0103

Uranus 66903-03-06 12:43 G 26156942.92 26156943.03 26156943.15 0.0136 0.0083

Uranus 66903-06-02 16:34 G 26157031.07 26157031.19 26157031.33 0.0136 0.0062

Uranus 66903-08-29 20:24 G 26157119.22 26157119.35 26157119.49 0.0136 0.0042

Uranus 66903-11-26 00:15 G 26157207.38 26157207.51 26157207.66 0.0136 0.0023

Uranus 66904-02-22 04:19 G 26157295.53 26157295.68 26157295.82 0.0136 0.0004

Uranus 66904-05-20 07:55 G 26157383.69 26157383.83 26157383.98 0.0136 0.0019

Uranus 66904-08-16 11:46 G 26157471.85 26157471.99 26157472.13 0.0136 0.0039

Uranus 66904-11-12 15:22 G 26157560.02 26157560.14 26157560.27 0.0137 0.0059

Uranus 66905-02-08 18:58 G 26157648.19 26157648.29 26157648.42 0.0137 0.0079

Uranus 66905-05-07 22:48 G 26157736.36 26157736.45 26157736.55 0.0137 0.0098

Uranus 66905-08-04 02:24 G 26157824.54 26157824.60 26157824.68 0.0137 0.0118

Jupiter 66906-11-19 03:22 G 26158296.48 26158296.64 26158296.79 0.0484 0.0163

Mars 66907-02-08 19:41 G 26158378.28 26158378.32 26158378.37 0.1902 0.1757

Moon 66907-07-08 05:03 G 26158527.69 26158527.71 26158527.74 0.2682 0.2610

Earth 66907-07-08 05:17 G 26158527.69 26158527.72 26158527.74 0.2689 0.2612 *

Mars 66907-12-23 12:15 G 26158695.93 26158696.01 26158696.09 0.1627 0.1328

Moon 66910-01-06 03:51 G 26159440.55 26159440.66 26159440.77 0.2637 0.1697

Earth 66910-01-06 04:34 G 26159440.59 26159440.69 26159440.79 0.2642 0.1779 *

Jupiter 66912-07-26 15:07 G 26160373.05 26160373.13 26160373.22 0.0545 0.0421

Jupiter 66912-10-24 05:31 G 26160462.64 26160462.73 26160462.82 0.0544 0.0405

Saturn 66914-05-04 09:51 G 26161019.80 26161019.91 26161020.04 0.0283 0.0181

Earth 66914-06-30 23:31 G 26161077.36 26161077.48 26161077.59 0.2692 0.0864

Moon 66914-07-01 00:00 G 26161077.39 26161077.50 26161077.62 0.2697 0.0730 *

Saturn 66914-08-01 03:22 G 26161108.48 26161108.64 26161108.81 0.0283 0.0017

Saturn 66914-10-28 21:07 G 26161197.25 26161197.38 26161197.53 0.0283 0.0156

Neptune 66915-07-21 01:55 G 26161462.52 26161462.58 26161462.65 0.0088 0.0080

Neptune 66915-10-17 04:19 G 26161550.59 26161550.68 26161550.79 0.0088 0.0071

Neptune 66916-01-13 06:58 G 26161638.68 26161638.79 26161638.92 0.0088 0.0062

Neptune 66916-04-10 09:36 G 26161726.77 26161726.90 26161727.05 0.0088 0.0053

Mars 66916-06-30 23:03 G 26161808.33 26161808.46 26161808.60 0.1900 0.0361

Neptune 66916-07-07 12:00 G 26161814.87 26161815.00 26161815.17 0.0088 0.0044

Neptune 66916-10-03 14:53 G 26161902.97 26161903.12 26161903.29 0.0088 0.0034

Neptune 66916-12-30 17:31 G 26161991.07 26161991.23 26161991.40 0.0088 0.0025

Neptune 66917-03-28 20:24 G 26162079.18 26162079.35 26162079.52 0.0088 0.0015

Neptune 66917-06-24 23:03 G 26162167.29 26162167.46 26162167.63 0.0088 0.0006

Neptune 66917-09-21 01:41 G 26162255.40 26162255.57 26162255.75 0.0088 0.0004

Neptune 66917-12-18 04:19 G 26162343.51 26162343.68 26162343.86 0.0088 0.0013

Neptune 66918-03-16 06:58 G 26162431.63 26162431.79 26162431.97 0.0088 0.0023

Neptune 66918-06-12 09:51 G 26162519.75 26162519.91 26162520.07 0.0088 0.0032

Jupiter 66918-09-07 04:19 G 26162606.52 26162606.68 26162606.85 0.0484 0.0009

Neptune 66918-09-08 12:29 G 26162607.87 26162608.02 26162608.18 0.0088 0.0042

Neptune 66918-12-05 15:22 G 26162696.00 26162696.14 26162696.28 0.0088 0.0051

Neptune 66919-03-03 18:00 G 26162784.13 26162784.25 26162784.38 0.0088 0.0061

Mars 66919-04-20 12:58 G 26162831.95 26162832.04 26162832.14 0.1622 0.1179

Neptune 66919-05-30 20:39 G 26162872.27 26162872.36 26162872.48 0.0088 0.0071

Neptune 66919-08-26 23:17 G 26162960.42 26162960.47 26162960.56 0.0088 0.0081

Jupiter 66924-08-12 07:41 G 26164772.69 26164772.82 26164772.94 0.0544 0.0201

Mars 66925-11-21 02:39 G 26165238.50 26165238.61 26165238.72 0.1897 0.0998

Earth 66927-07-03 19:12 G 26165828.19 26165828.30 26165828.42 0.2691 0.0415

Moon 66927-07-03 20:10 G 26165828.22 26165828.34 26165828.46 0.2689 0.0423 *

Mars 66928-09-09 21:07 G 26166262.25 26166262.38 26166262.51 0.1623 0.0407

Saturn 66929-03-07 14:24 G 26166441.00 26166441.10 26166441.21 0.0276 0.0193

Saturn 66929-06-04 04:05 G 26166529.53 26166529.67 26166529.82 0.0276 0.0051

Saturn 66929-08-31 17:46 G 26166618.10 26166618.24 26166618.38 0.0277 0.0091

Saturn 66929-11-28 06:58 G 26166706.71 26166706.79 26166706.87 0.0277 0.0228

Earth 66930-01-01 07:41 G 26166740.70 26166740.82 26166740.94 0.2640 0.1307

Moon 66930-01-01 08:24 G 26166740.73 26166740.85 26166740.98 0.2635 0.1313 *

Jupiter 66930-06-26 05:17 G 26166916.57 26166916.72 26166916.87 0.0484 0.0178

Venus 66931-08-07 04:34 G 26167323.58 26167323.69 26167323.79 0.3687 0.1189

Jupiter 66936-05-31 09:22 G 26169082.76 26169082.89 26169083.03 0.0544 0.0018

Venus 66937-02-19 21:51 G 26169347.32 26169347.41 26169347.50 0.3686 0.1838

Mars 66938-01-31 05:03 G 26169692.57 26169692.71 26169692.84 0.1625 0.0378

Venus 66938-09-03 14:24 G 26169908.07 26169908.10 26169908.14 0.3684 0.3516

Earth 66940-07-05 14:53 G 26170579.03 26170579.12 26170579.21 0.2690 0.1639

Moon 66940-07-05 15:22 G 26170579.05 26170579.14 26170579.23 0.2685 0.1737 *

Jupiter 66942-04-14 06:29 G 26171226.66 26171226.77 26171226.88 0.0484 0.0345

Jupiter 66942-07-13 00:43 G 26171316.42 26171316.53 26171316.65 0.0484 0.0343

Earth 66943-01-04 08:53 G 26171491.73 26171491.87 26171492.01 0.2641 0.0363

Moon 66943-01-04 09:07 G 26171491.74 26171491.88 26171492.02 0.2635 0.0433 *

Uranus 66943-04-01 12:43 G 26171578.97 26171579.03 26171579.09 0.0142 0.0133

Uranus 66943-06-28 18:58 G 26171667.18 26171667.29 26171667.41 0.0142 0.0106

Saturn 66943-09-21 12:15 G 26171751.91 26171752.01 26171752.12 0.0283 0.0211

Uranus 66943-09-25 00:58 G 26171755.41 26171755.54 26171755.70 0.0142 0.0080

Saturn 66943-12-19 05:46 G 26171840.58 26171840.74 26171840.90 0.0283 0.0045

Uranus 66943-12-22 07:41 G 26171843.66 26171843.82 26171843.98 0.0142 0.0051

Saturn 66944-03-16 23:31 G 26171929.34 26171929.48 26171929.63 0.0283 0.0124

Uranus 66944-03-19 14:10 G 26171931.92 26171932.09 26171932.26 0.0142 0.0024

Venus 66944-03-19 15:22 G 26171932.02 26171932.14 26171932.25 0.3685 0.1802 *

Uranus 66944-06-15 20:39 G 26172020.18 26172020.36 26172020.53 0.0142 0.0005

Uranus 66944-09-12 02:53 G 26172108.46 26172108.62 26172108.80 0.0142 0.0032

Uranus 66944-12-09 09:36 G 26172196.74 26172196.90 26172197.06 0.0142 0.0059

Uranus 66945-03-07 16:05 G 26172285.04 26172285.17 26172285.31 0.0142 0.0087

Uranus 66945-06-03 22:19 G 26172373.35 26172373.43 26172373.55 0.0142 0.0116

Mars 66947-06-23 12:29 G 26173122.93 26173123.02 26173123.12 0.1627 0.1196

Earth 66947-06-29 08:24 G 26173128.77 26173128.85 26173128.94 0.2693 0.1923

Moon 66947-06-29 08:53 G 26173128.79 26173128.87 26173128.95 0.2700 0.1869 *

Jupiter 66948-03-19 10:48 G 26173392.82 26173392.95 26173393.08 0.0545 0.0229

Jupiter 66954-05-01 01:41 G 26175626.42 26175626.57 26175626.73 0.0484 0.0172

Mars 66955-12-30 23:17 G 26176235.34 26176235.47 26176235.60 0.1900 0.0514

Moon 66956-01-07 09:36 G 26176242.80 26176242.90 26176242.99 0.2637 0.1986

Earth 66956-01-07 10:19 G 26176242.85 26176242.93 26176243.02 0.2642 0.2100 *

Saturn 66958-07-25 16:48 G 26177173.12 26177173.20 26177173.28 0.0275 0.0226

Mars 66958-10-19 13:12 G 26177258.97 26177259.05 26177259.13 0.1621 0.1302

Saturn 66958-10-22 06:29 G 26177261.64 26177261.77 26177261.92 0.0276 0.0084

Saturn 66959-01-18 20:10 G 26177350.20 26177350.34 26177350.48 0.0276 0.0057

Pluto 66959-04-16 17:31 G 26177438.17 26177438.23 26177438.32 0.0065 0.0056

Saturn 66959-04-17 09:22 G 26177438.79 26177438.89 26177439.00 0.0276 0.0194

Pluto 66959-07-13 18:29 G 26177526.17 26177526.27 26177526.38 0.0065 0.0045

Pluto 66959-10-09 19:12 G 26177614.18 26177614.30 26177614.43 0.0065 0.0034

Pluto 66960-01-05 19:41 G 26177702.20 26177702.32 26177702.47 0.0065 0.0025

Jupiter 66960-01-06 12:58 G 26177702.96 26177703.04 26177703.13 0.0545 0.0432

Pluto 66960-04-02 20:39 G 26177790.22 26177790.36 26177790.51 0.0065 0.0013

Jupiter 66960-04-05 03:22 G 26177792.55 26177792.64 26177792.73 0.0545 0.0396

Pluto 66960-06-29 21:22 G 26177878.24 26177878.39 26177878.54 0.0065 0.0003

Earth 66960-07-01 04:34 G 26177879.57 26177879.69 26177879.80 0.2692 0.0622

Moon 66960-07-01 05:17 G 26177879.61 26177879.72 26177879.84 0.2695 0.0591 *

Pluto 66960-09-25 22:05 G 26177966.27 26177966.42 26177966.57 0.0065 0.0009

Pluto 66960-12-22 22:48 G 26178054.31 26178054.45 26178054.59 0.0066 0.0019

Pluto 66961-03-20 23:17 G 26178142.35 26178142.47 26178142.61 0.0066 0.0031

Pluto 66961-06-17 00:15 G 26178230.40 26178230.51 26178230.63 0.0066 0.0041

Pluto 66961-09-13 00:43 G 26178318.45 26178318.53 26178318.63 0.0066 0.0052

Pluto 66961-12-10 01:27 G 26178406.53 26178406.56 26178406.61 0.0066 0.0063

Earth 66962-12-30 12:29 G 26178792.01 26178792.02 26178792.04 0.2639 0.2622

Moon 66962-12-30 13:55 G 26178792.05 26178792.08 26178792.10 0.2638 0.2586

Mars 66965-05-22 02:53 G 26179665.51 26179665.62 26179665.74 0.1897 0.0841

Jupiter 66966-02-17 02:39 G 26179936.44 26179936.61 26179936.77 0.0484 0.0008

Mars 66968-03-10 21:22 G 26180689.26 26180689.39 26180689.52 0.1623 0.0534

Jupiter 66972-01-23 06:00 G 26182102.63 26182102.75 26182102.88 0.0545 0.0206

Saturn 66973-02-07 11:17 G 26182483.93 26182483.97 26182484.01 0.0283 0.0271

Saturn 66973-05-07 04:34 G 26182572.54 26182572.69 26182572.84 0.0283 0.0107

Earth 66973-07-04 00:15 G 26182630.40 26182630.51 26182630.63 0.2691 0.0644

Moon 66973-07-04 01:12 G 26182630.44 26182630.55 26182630.66 0.2689 0.0806 *

Saturn 66973-08-03 22:05 G 26182661.26 26182661.42 26182661.58 0.0283 0.0060

Saturn 66973-10-31 16:05 G 26182750.08 26182750.17 26182750.26 0.0283 0.0231

Earth 66976-01-02 13:27 G 26183542.93 26183543.06 26183543.19 0.2640 0.1010

Moon 66976-01-02 14:10 G 26183542.96 26183543.09 26183543.22 0.2634 0.0838 *

Mars 66977-08-01 05:17 G 26184119.58 26184119.72 26184119.85 0.1625 0.0258

Jupiter 66977-12-06 03:51 G 26184246.51 26184246.66 26184246.81 0.0484 0.0169

Venus 66982-08-28 08:53 G 26185972.82 26185972.87 26185972.93 0.3687 0.3126

Jupiter 66983-11-11 08:10 G 26186412.70 26186412.84 26186412.98 0.0544 0.0009

Uranus 66986-07-05 08:39 G 26187379.86 26187379.86 26187379.88 0.0136 0.0135

Earth 66986-07-06 19:55 G 26187381.25 26187381.33 26187381.41 0.2690 0.1871

Moon 66986-07-06 20:10 G 26187381.26 26187381.34 26187381.43 0.2684 0.1835 *

Uranus 66986-10-01 12:29 G 26187467.96 26187468.02 26187468.11 0.0136 0.0115

Mars 66986-12-22 12:43 G 26187549.93 26187550.03 26187550.14 0.1627 0.1061

Uranus 66986-12-28 16:34 G 26187556.09 26187556.19 26187556.30 0.0136 0.0094

Uranus 66987-03-26 20:24 G 26187644.24 26187644.35 26187644.48 0.0136 0.0074

Uranus 66987-06-23 00:29 G 26187732.39 26187732.52 26187732.65 0.0136 0.0053

Uranus 66987-09-19 04:19 G 26187820.54 26187820.68 26187820.82 0.0136 0.0033

Saturn 66987-12-12 17:31 G 26187905.22 26187905.23 26187905.24 0.0276 0.0274

Uranus 66987-12-16 08:10 G 26187908.70 26187908.84 26187908.98 0.0136 0.0013

Saturn 66988-03-10 07:27 G 26187993.68 26187993.81 26187993.94 0.0276 0.0130

Venus 66988-03-13 02:24 G 26187996.49 26187996.60 26187996.71 0.3687 0.0043

Uranus 66988-03-13 12:00 G 26187996.85 26187997.00 26187997.14 0.0136 0.0007

Saturn 66988-06-06 21:07 G 26188082.23 26188082.38 26188082.53 0.0276 0.0011

Uranus 66988-06-09 15:36 G 26188085.01 26188085.15 26188085.29 0.0136 0.0027

Saturn 66988-09-03 10:34 G 26188170.82 26188170.94 26188171.06 0.0276 0.0150

Uranus 66988-09-05 19:27 G 26188173.18 26188173.31 26188173.45 0.0136 0.0047

Uranus 66988-12-02 23:17 G 26188261.34 26188261.47 26188261.59 0.0136 0.0067

Moon 66989-01-04 14:39 G 26188293.97 26188294.11 26188294.25 0.2635 0.0598

Earth 66989-01-04 14:39 G 26188293.97 26188294.11 26188294.25 0.2641 0.0680 *

Uranus 66989-03-01 02:53 G 26188349.51 26188349.62 26188349.73 0.0137 0.0086

Uranus 66989-05-28 06:43 G 26188437.69 26188437.78 26188437.86 0.0137 0.0106

Uranus 66989-08-24 10:05 G 26188525.88 26188525.92 26188525.98 0.0137 0.0126

Jupiter 66989-09-24 04:48 G 26188556.59 26188556.70 26188556.82 0.0484 0.0338

Jupiter 66989-12-22 23:17 G 26188646.35 26188646.47 26188646.58 0.0484 0.0351

Earth 66993-06-29 13:41 G 26189930.98 26189931.07 26189931.16 0.2693 0.1675

Moon 66993-06-29 14:10 G 26189930.99 26189931.09 26189931.18 0.2699 0.1641 *

Venus 66993-09-26 19:41 G 26190020.26 26190020.32 26190020.38 0.3686 0.2951

Venus 66995-04-10 14:10 G 26190580.97 26190581.09 26190581.21 0.3684 0.1675

Mars 66995-06-30 23:31 G 26190662.35 26190662.48 26190662.60 0.1900 0.0658

Jupiter 66995-08-30 09:51 G 26190722.79 26190722.91 26190723.04 0.0544 0.0211

Neptune 66996-08-16 03:22 G 26191074.61 26191074.64 26191074.70 0.0089 0.0085

Neptune 66996-11-12 05:17 G 26191162.65 26191162.72 26191162.80 0.0089 0.0076

Neptune 66997-02-08 06:58 G 26191250.71 26191250.79 26191250.89 0.0089 0.0068

Neptune 66997-05-07 08:53 G 26191338.77 26191338.87 26191338.98 0.0089 0.0059

Neptune 66997-08-03 10:34 G 26191426.83 26191426.94 26191427.07 0.0089 0.0051

Neptune 66997-10-30 12:15 G 26191514.89 26191515.01 26191515.15 0.0089 0.0043

Neptune 66998-01-26 14:10 G 26191602.96 26191603.09 26191603.23 0.0089 0.0034

Mars 66998-04-19 13:41 G 26191686.00 26191686.07 26191686.13 0.1622 0.1429

Neptune 66998-04-24 15:51 G 26191691.03 26191691.16 26191691.31 0.0089 0.0026

Neptune 66998-07-21 17:46 G 26191779.10 26191779.24 26191779.38 0.0089 0.0017

Neptune 66998-10-17 19:27 G 26191867.17 26191867.31 26191867.46 0.0089 0.0009

Neptune 66999-01-13 21:07 G 26191955.24 26191955.38 26191955.53 0.0089 0.0003

Neptune 66999-04-11 22:48 G 26192043.31 26192043.45 26192043.60 0.0089 0.0008

Neptune 66999-07-09 00:29 G 26192131.38 26192131.52 26192131.67 0.0089 0.0016

Neptune 66999-10-05 02:10 G 26192219.46 26192219.59 26192219.74 0.0089 0.0025

Neptune 67000-01-01 03:51 G 26192307.53 26192307.66 26192307.80 0.0089 0.0033

Neptune 67000-03-30 05:31 G 26192395.61 26192395.73 26192395.86 0.0089 0.0041

Neptune 67000-06-26 07:12 G 26192483.69 26192483.80 26192483.93 0.0089 0.0049

Neptune 67000-09-22 08:53 G 26192571.77 26192571.87 26192571.99 0.0089 0.0057

Neptune 67000-12-19 10:34 G 26192659.85 26192659.94 26192660.04 0.0089 0.0065

68TH MILLENNIUM CE

This is a list of transits of Mercury in the 68th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Neptune 67001-03-17 12:15 G 26192747.93 26192748.01 26192748.09 0.0089 0.0073

Neptune 67001-06-13 13:41 G 26192836.02 26192836.07 26192836.14 0.0089 0.0081

Neptune 67001-09-09 15:22 G 26192924.13 26192924.14 26192924.17 0.0089 0.0089

Jupiter 67001-10-12 00:00 G 26192956.35 26192956.50 26192956.65 0.0484 0.0178

Moon 67002-01-08 15:22 G 26193045.08 26193045.14 26193045.20 0.2637 0.2366

Earth 67002-01-08 16:19 G 26193045.13 26193045.18 26193045.23 0.2643 0.2428 *

Saturn 67002-09-25 06:15 G 26193304.62 26193304.76 26193304.90 0.0283 0.0144

Saturn 67002-12-22 23:46 G 26193393.33 26193393.49 26193393.65 0.0283 0.0023

Saturn 67003-03-21 17:46 G 26193482.12 26193482.24 26193482.36 0.0283 0.0194

Mars 67004-11-21 03:07 G 26194092.51 26194092.63 26194092.76 0.1897 0.0684

Earth 67006-07-03 09:36 G 26194681.79 26194681.90 26194682.02 0.2692 0.0386

Moon 67006-07-03 10:34 G 26194681.82 26194681.94 26194682.06 0.2693 0.0270 *

Jupiter 67007-06-19 11:03 G 26195032.88 26195032.96 26195033.04 0.0545 0.0436

Mars 67007-09-10 21:36 G 26195116.28 26195116.40 26195116.53 0.1623 0.0660

Jupiter 67007-09-17 01:27 G 26195122.47 26195122.56 26195122.65 0.0545 0.0392

Earth 67008-12-31 18:29 G 26195594.20 26195594.27 26195594.33 0.2639 0.2323

Moon 67008-12-31 19:27 G 26195594.23 26195594.31 26195594.39 0.2637 0.2159 *

Jupiter 67013-07-31 01:12 G 26197266.39 26197266.55 26197266.72 0.0484 0.0010

Mars 67017-01-31 05:31 G 26198546.59 26198546.73 26198546.87 0.1625 0.0126

Saturn 67017-07-29 10:05 G 26198725.80 26198725.92 26198726.04 0.0275 0.0162

Saturn 67017-10-25 23:46 G 26198814.34 26198814.49 26198814.64 0.0275 0.0020

Saturn 67018-01-22 13:12 G 26198902.92 26198903.05 26198903.18 0.0276 0.0118

Saturn 67018-04-21 02:10 G 26198991.55 26198991.59 26198991.65 0.0276 0.0255

Jupiter 67019-07-06 03:51 G 26199432.54 26199432.66 26199432.79 0.0545 0.0199

Earth 67019-07-06 05:17 G 26199432.61 26199432.72 26199432.84 0.2691 0.0881 *

Moon 67019-07-06 06:15 G 26199432.65 26199432.76 26199432.87 0.2688 0.0894 *

Earth 67022-01-03 19:12 G 26200345.17 26200345.30 26200345.44 0.2640 0.0697

Moon 67022-01-03 19:55 G 26200345.20 26200345.33 26200345.47 0.2635 0.0714 *

Jupiter 67025-05-19 02:10 G 26201576.44 26201576.59 26201576.74 0.0483 0.0162

Mars 67026-06-23 13:12 G 26201976.93 26201977.05 26201977.16 0.1627 0.0931

Uranus 67027-04-22 20:10 G 26202280.27 26202280.34 26202280.43 0.0142 0.0124

Uranus 67027-07-20 02:24 G 26202368.49 26202368.60 26202368.74 0.0142 0.0097

Uranus 67027-10-16 08:53 G 26202456.72 26202456.87 26202457.02 0.0142 0.0069

Uranus 67028-01-12 15:07 G 26202544.97 26202545.13 26202545.30 0.0142 0.0043

Uranus 67028-04-09 21:36 G 26202633.23 26202633.40 26202633.58 0.0142 0.0015

Uranus 67028-07-07 04:05 G 26202721.50 26202721.67 26202721.85 0.0142 0.0014

Uranus 67028-10-03 10:34 G 26202809.78 26202809.94 26202810.11 0.0142 0.0041

Uranus 67028-12-30 17:03 G 26202898.07 26202898.21 26202898.37 0.0142 0.0069

Uranus 67029-03-28 23:31 G 26202986.36 26202986.48 26202986.62 0.0142 0.0097

Uranus 67029-06-25 06:15 G 26203074.69 26203074.76 26203074.85 0.0142 0.0125

Jupiter 67031-04-24 06:43 G 26203742.64 26203742.78 26203742.92 0.0545 0.0016

Saturn 67032-02-12 05:03 G 26204036.60 26204036.71 26204036.82 0.0283 0.0205

Saturn 67032-05-10 22:19 G 26204125.27 26204125.43 26204125.59 0.0283 0.0040

Earth 67032-07-08 00:58 G 26204183.47 26204183.54 26204183.61 0.2690 0.2095

Moon 67032-07-08 01:12 G 26204183.48 26204183.55 26204183.61 0.2683 0.2181 *

Saturn 67032-08-07 16:05 G 26204214.03 26204214.17 26204214.32 0.0283 0.0129

Mars 67034-12-30 23:46 G 26205089.37 26205089.49 26205089.61 0.1900 0.0816

Moon 67035-01-06 20:10 G 26205096.21 26205096.34 26205096.47 0.2635 0.1038

Earth 67035-01-06 20:24 G 26205096.22 26205096.35 26205096.49 0.2641 0.0995 *

Jupiter 67037-03-07 03:36 G 26205886.53 26205886.65 26205886.77 0.0483 0.0326

Jupiter 67037-06-04 21:51 G 26205976.30 26205976.41 26205976.52 0.0484 0.0361

Mars 67037-10-19 13:41 G 26206113.04 26206113.07 26206113.11 0.1622 0.1547

Venus 67039-04-05 06:58 G 26206645.69 26206645.79 26206645.88 0.3687 0.1978

Earth 67039-07-01 18:43 G 26206733.18 26206733.28 26206733.38 0.2693 0.1430

Moon 67039-07-01 19:12 G 26206733.20 26206733.30 26206733.40 0.2699 0.1403 *

Jupiter 67043-02-10 08:53 G 26208052.74 26208052.87 26208053.00 0.0545 0.0198

Mars 67044-05-22 03:07 G 26208519.50 26208519.63 26208519.76 0.1897 0.0551

Venus 67044-10-19 00:15 G 26208669.41 26208669.51 26208669.62 0.3686 0.1090

Saturn 67046-12-16 10:34 G 26209457.84 26209457.94 26209458.03 0.0276 0.0213

Mars 67047-03-11 21:51 G 26209543.29 26209543.41 26209543.53 0.1623 0.0787

Saturn 67047-03-15 00:15 G 26209546.37 26209546.51 26209546.65 0.0276 0.0071

Saturn 67047-06-11 13:41 G 26209634.94 26209635.07 26209635.22 0.0276 0.0071

Pluto 67047-07-14 09:36 G 26209667.87 26209667.90 26209667.98 0.0079 0.0075

Saturn 67047-09-08 03:07 G 26209723.54 26209723.63 26209723.73 0.0276 0.0207

Pluto 67047-10-10 11:46 G 26209755.88 26209755.99 26209756.13 0.0079 0.0054

Pluto 67048-01-06 13:41 G 26209843.93 26209844.07 26209844.23 0.0079 0.0033

Moon 67048-01-09 21:22 G 26209847.36 26209847.39 26209847.41 0.2638 0.2590

Pluto 67048-04-03 15:36 G 26209931.99 26209932.15 26209932.33 0.0078 0.0012

Pluto 67048-06-30 17:31 G 26210020.07 26210020.23 26210020.41 0.0078 0.0011

Pluto 67048-09-26 19:27 G 26210108.16 26210108.31 26210108.47 0.0078 0.0031

Pluto 67048-12-23 21:07 G 26210196.27 26210196.38 26210196.52 0.0078 0.0052

Pluto 67049-03-21 23:17 G 26210284.41 26210284.47 26210284.53 0.0078 0.0072

Jupiter 67049-03-23 22:34 G 26210286.29 26210286.44 26210286.59 0.0484 0.0187

Venus 67051-11-16 13:55 G 26211253.95 26211254.08 26211254.21 0.3684 0.0168

Earth 67052-07-03 14:39 G 26211484.00 26211484.11 26211484.23 0.2692 0.0168

Moon 67052-07-03 15:36 G 26211484.03 26211484.15 26211484.27 0.2692 0.0063 *

Mars 67053-10-12 07:27 G 26211949.78 26211949.81 26211949.84 0.1894 0.1838

Jupiter 67054-11-29 10:34 G 26212362.84 26212362.94 26212363.03 0.0545 0.0411

Earth 67055-01-02 00:15 G 26212396.42 26212396.51 26212396.59 0.2639 0.2024

Moon 67055-01-02 01:12 G 26212396.46 26212396.55 26212396.64 0.2636 0.1943 *

Jupiter 67055-02-27 00:43 G 26212452.44 26212452.53 26212452.62 0.0544 0.0414

Mars 67056-08-01 05:46 G 26212973.60 26212973.74 26212973.88 0.1625 0.0023

Jupiter 67061-01-09 23:46 G 26214596.32 26214596.49 26214596.65 0.0484 0.0022

Saturn 67061-07-01 06:15 G 26214768.69 26214768.76 26214768.84 0.0283 0.0245

Saturn 67061-09-27 23:31 G 26214857.33 26214857.48 26214857.64 0.0283 0.0081

Saturn 67061-12-25 17:17 G 26214946.07 26214946.22 26214946.38 0.0283 0.0088

Saturn 67062-03-24 11:17 G 26215034.91 26215034.97 26215035.04 0.0283 0.0260

Earth 67065-07-06 10:34 G 26216234.83 26216234.94 26216235.04 0.2691 0.1111

Moon 67065-07-06 11:03 G 26216234.86 26216234.96 26216235.07 0.2687 0.1226 *

Mars 67065-12-22 13:27 G 26216403.94 26216404.06 26216404.18 0.1627 0.0800

Jupiter 67066-12-16 02:10 G 26216762.46 26216762.59 26216762.72 0.0545 0.0198

Earth 67068-01-05 00:58 G 26217147.41 26217147.54 26217147.68 0.2641 0.0398

Moon 67068-01-05 01:41 G 26217147.43 26217147.57 26217147.71 0.2635 0.0265 *

Uranus 67070-07-26 16:34 G 26218081.14 26218081.19 26218081.25 0.0136 0.0126

Uranus 67070-10-22 20:24 G 26218169.27 26218169.35 26218169.45 0.0136 0.0106

Uranus 67071-01-19 00:29 G 26218257.41 26218257.52 26218257.63 0.0136 0.0085

Uranus 67071-04-17 04:19 G 26218345.56 26218345.68 26218345.81 0.0136 0.0065

Uranus 67071-07-14 08:10 G 26218433.71 26218433.84 26218433.98 0.0136 0.0045

Uranus 67071-10-10 12:00 G 26218521.86 26218522.00 26218522.14 0.0136 0.0025

Uranus 67072-01-06 15:51 G 26218610.02 26218610.16 26218610.31 0.0136 0.0005

Uranus 67072-04-03 19:41 G 26218698.18 26218698.32 26218698.46 0.0136 0.0016

Earth 67072-06-29 03:51 G 26218784.62 26218784.66 26218784.70 0.2694 0.2502

Moon 67072-06-29 03:51 G 26218784.63 26218784.66 26218784.69 0.2701 0.2576 *

Uranus 67072-06-30 23:31 G 26218786.34 26218786.48 26218786.62 0.0136 0.0036

Uranus 67072-09-27 03:07 G 26218874.50 26218874.63 26218874.76 0.0136 0.0056

Jupiter 67072-10-29 00:58 G 26218906.39 26218906.54 26218906.70 0.0483 0.0147

Uranus 67072-12-24 06:43 G 26218962.67 26218962.78 26218962.91 0.0136 0.0076

Uranus 67073-03-22 10:34 G 26219050.84 26219050.94 26219051.05 0.0137 0.0095

Uranus 67073-06-18 14:10 G 26219139.02 26219139.09 26219139.17 0.0137 0.0115

Uranus 67073-09-14 18:00 G 26219227.23 26219227.25 26219227.28 0.0137 0.0134

Mars 67074-06-30 23:46 G 26219516.38 26219516.49 26219516.61 0.1900 0.0964

Mars 67075-05-14 20:53 G 26219834.36 26219834.37 26219834.38 0.1629 0.1622

Saturn 67076-05-04 12:58 G 26220189.98 26220190.04 26220190.11 0.0275 0.0244

Saturn 67076-08-01 02:53 G 26220278.49 26220278.62 26220278.76 0.0275 0.0101

Saturn 67076-10-28 16:34 G 26220367.04 26220367.19 26220367.33 0.0275 0.0039

Saturn 67077-01-25 05:46 G 26220455.63 26220455.74 26220455.86 0.0276 0.0177

Earth 67078-07-09 06:00 G 26220985.69 26220985.75 26220985.81 0.2690 0.2326

Moon 67078-07-09 06:15 G 26220985.70 26220985.76 26220985.82 0.2682 0.2267 *

Jupiter 67078-10-04 04:34 G 26221072.55 26221072.69 26221072.83 0.0545 0.0005

Neptune 67080-01-19 20:53 G 26221545.37 26221545.37 26221545.42 0.0088 0.0087

Neptune 67080-04-17 00:00 G 26221633.42 26221633.50 26221633.58 0.0088 0.0077

Neptune 67080-07-14 02:24 G 26221721.50 26221721.60 26221721.71 0.0088 0.0068

Neptune 67080-10-10 05:03 G 26221809.59 26221809.71 26221809.84 0.0088 0.0059

Neptune 67081-01-06 07:27 G 26221897.68 26221897.81 26221897.96 0.0088 0.0050

Moon 67081-01-07 01:55 G 26221898.45 26221898.58 26221898.71 0.2635 0.1169

Earth 67081-01-07 02:24 G 26221898.48 26221898.60 26221898.72 0.2642 0.1316 *

Neptune 67081-04-04 10:05 G 26221985.78 26221985.92 26221986.08 0.0088 0.0041

Neptune 67081-07-01 12:43 G 26222073.88 26222074.03 26222074.20 0.0088 0.0032

Neptune 67081-09-27 15:36 G 26222161.98 26222162.15 26222162.32 0.0088 0.0022

Neptune 67081-12-24 18:15 G 26222250.09 26222250.26 26222250.43 0.0088 0.0013

Neptune 67082-03-22 20:53 G 26222338.20 26222338.37 26222338.54 0.0088 0.0003

Neptune 67082-06-18 23:31 G 26222426.31 26222426.48 26222426.65 0.0088 0.0006

Neptune 67082-09-15 02:10 G 26222514.42 26222514.59 26222514.76 0.0088 0.0016

Neptune 67082-12-12 04:48 G 26222602.54 26222602.70 26222602.87 0.0088 0.0025

Neptune 67083-03-10 07:27 G 26222690.66 26222690.81 26222690.98 0.0088 0.0035

Neptune 67083-06-06 10:19 G 26222778.78 26222778.93 26222779.08 0.0088 0.0044

Neptune 67083-09-02 12:43 G 26222866.91 26222867.03 26222867.18 0.0088 0.0054

Mars 67083-11-21 03:22 G 26222946.51 26222946.64 26222946.77 0.1897 0.0397

Neptune 67083-11-29 15:51 G 26222955.04 26222955.16 26222955.28 0.0088 0.0063

Neptune 67084-02-25 18:29 G 26223043.18 26223043.27 26223043.37 0.0088 0.0073

Neptune 67084-05-23 21:07 G 26223131.34 26223131.38 26223131.45 0.0088 0.0083

Jupiter 67084-08-17 02:10 G 26223216.47 26223216.59 26223216.71 0.0483 0.0315

Jupiter 67084-11-14 20:24 G 26223306.24 26223306.35 26223306.45 0.0484 0.0371

Earth 67085-07-02 00:00 G 26223535.39 26223535.50 26223535.60 0.2693 0.1186

Moon 67085-07-02 00:29 G 26223535.42 26223535.52 26223535.63 0.2697 0.1074 *

Mars 67086-09-09 22:05 G 26223970.31 26223970.42 26223970.53 0.1623 0.0912

Jupiter 67090-07-23 07:12 G 26225382.67 26225382.80 26225382.93 0.0545 0.0195

Saturn 67091-02-14 22:19 G 26225589.30 26225589.43 26225589.57 0.0283 0.0142

Saturn 67091-05-14 15:51 G 26225678.00 26225678.16 26225678.33 0.0283 0.0025

Saturn 67091-08-11 09:36 G 26225766.79 26225766.90 26225767.03 0.0283 0.0195

Mars 67093-04-12 07:27 G 26226376.76 26226376.81 26226376.87 0.1894 0.1694

Venus 67095-11-10 04:48 G 26227318.59 26227318.70 26227318.81 0.3687 0.0820

Mars 67096-01-31 06:00 G 26227400.61 26227400.75 26227400.89 0.1625 0.0132

Jupiter 67096-06-05 03:36 G 26227526.63 26227526.65 26227526.68 0.0483 0.0477

Jupiter 67096-09-02 21:22 G 26227616.24 26227616.39 26227616.54 0.0484 0.0200

Earth 67098-07-04 19:55 G 26228286.21 26228286.33 26228286.45 0.2692 0.0122

Moon 67098-07-04 20:39 G 26228286.25 26228286.36 26228286.48 0.2692 0.0206 *

Earth 67101-01-03 06:00 G 26229198.64 26229198.75 26229198.85 0.2639 0.1716

Moon 67101-01-03 06:58 G 26229198.68 26229198.79 26229198.91 0.2635 0.1602 *

Venus 67101-05-26 22:05 G 26229342.33 26229342.42 26229342.51 0.3686 0.2207

Jupiter 67102-05-12 09:22 G 26229692.79 26229692.89 26229692.98 0.0545 0.0398

Jupiter 67102-08-09 23:31 G 26229782.40 26229782.48 26229782.57 0.0544 0.0428

Venus 67102-12-08 13:12 G 26229902.98 26229903.05 26229903.11 0.3683 0.3197

Mars 67105-06-23 13:41 G 26230830.94 26230831.07 26230831.20 0.1627 0.0666

Saturn 67105-12-20 03:07 G 26231010.51 26231010.63 26231010.75 0.0276 0.0155

Saturn 67106-03-18 16:48 G 26231099.06 26231099.20 26231099.35 0.0276 0.0015

Saturn 67106-06-15 06:15 G 26231187.64 26231187.76 26231187.89 0.0276 0.0126

Saturn 67106-09-11 19:27 G 26231276.27 26231276.31 26231276.36 0.0276 0.0262

Jupiter 67108-06-22 22:19 G 26231926.26 26231926.43 26231926.59 0.0484 0.0029

Venus 67108-06-23 13:41 G 26231926.96 26231927.07 26231927.18 0.3684 0.2053

Uranus 67111-02-14 21:51 G 26232893.39 26232893.41 26232893.46 0.0143 0.0140

Uranus 67111-05-14 04:19 G 26232981.58 26232981.68 26232981.79 0.0142 0.0112

Earth 67111-07-08 15:36 G 26233037.05 26233037.15 26233037.25 0.2690 0.1343

Moon 67111-07-08 16:05 G 26233037.07 26233037.17 26233037.27 0.2685 0.1372 *

Uranus 67111-08-10 10:34 G 26233069.81 26233069.94 26233070.08 0.0142 0.0086

Uranus 67111-11-06 16:48 G 26233158.05 26233158.20 26233158.36 0.0142 0.0059

Uranus 67112-02-02 23:17 G 26233246.31 26233246.47 26233246.64 0.0142 0.0031

Uranus 67112-05-01 05:46 G 26233334.57 26233334.74 26233334.91 0.0142 0.0004

Uranus 67112-07-28 12:15 G 26233422.84 26233423.01 26233423.18 0.0142 0.0024

Uranus 67112-10-24 18:43 G 26233511.12 26233511.28 26233511.44 0.0142 0.0052

Uranus 67113-01-21 01:12 G 26233599.41 26233599.55 26233599.70 0.0142 0.0080

Uranus 67113-04-19 07:41 G 26233687.71 26233687.82 26233687.94 0.0142 0.0108

Uranus 67113-07-16 14:24 G 26233776.06 26233776.10 26233776.15 0.0142 0.0136

Mars 67113-12-31 00:00 G 26233943.39 26233943.50 26233943.61 0.1900 0.1114

Earth 67114-01-06 06:58 G 26233949.65 26233949.79 26233949.93 0.2641 0.0075

Moon 67114-01-06 07:12 G 26233949.66 26233949.80 26233949.94 0.2634 0.0097 *

Jupiter 67114-05-29 01:41 G 26234092.45 26234092.57 26234092.70 0.0544 0.0225

Mars 67114-11-13 21:07 G 26234261.33 26234261.38 26234261.44 0.1629 0.1484

Moon 67118-07-01 09:07 G 26235586.81 26235586.88 26235586.95 0.2701 0.2173

Earth 67118-07-01 08:53 G 26235586.81 26235586.87 26235586.94 0.2694 0.2251 *

Jupiter 67120-04-10 23:31 G 26236236.33 26236236.48 26236236.64 0.0484 0.0136

Saturn 67120-07-04 23:03 G 26236321.34 26236321.46 26236321.58 0.0283 0.0188

Saturn 67120-10-01 16:34 G 26236410.03 26236410.19 26236410.35 0.0283 0.0022

Saturn 67120-12-29 10:19 G 26236498.79 26236498.93 26236499.07 0.0283 0.0147

Mars 67123-05-23 03:36 G 26237373.52 26237373.65 26237373.79 0.1897 0.0244

Earth 67124-07-10 11:03 G 26237787.93 26237787.96 26237787.99 0.2689 0.2549

Moon 67124-07-10 11:03 G 26237787.94 26237787.96 26237787.99 0.2683 0.2607 *

Mars 67126-03-11 22:19 G 26238397.33 26238397.43 26238397.54 0.1623 0.1037

Jupiter 67126-03-17 02:53 G 26238402.48 26238402.62 26238402.76 0.0545 0.0011

Moon 67127-01-09 07:41 G 26238700.71 26238700.82 26238700.93 0.2636 0.1662

Earth 67127-01-09 08:10 G 26238700.73 26238700.84 26238700.96 0.2642 0.1634 *

Earth 67131-07-04 05:03 G 26240337.60 26240337.71 26240337.82 0.2693 0.0940

Moon 67131-07-04 05:46 G 26240337.63 26240337.74 26240337.85 0.2696 0.0927 *

Jupiter 67132-01-29 00:58 G 26240546.42 26240546.54 26240546.68 0.0483 0.0299

Jupiter 67132-04-27 19:12 G 26240636.21 26240636.30 26240636.40 0.0484 0.0389

Mars 67132-10-12 07:27 G 26240803.74 26240803.81 26240803.89 0.1894 0.1556

Saturn 67135-05-09 05:46 G 26241742.64 26241742.74 26241742.86 0.0275 0.0184

Mars 67135-08-02 06:15 G 26241827.62 26241827.76 26241827.90 0.1625 0.0259

Saturn 67135-08-05 19:41 G 26241831.17 26241831.32 26241831.47 0.0275 0.0043

Saturn 67135-11-02 09:07 G 26241919.74 26241919.88 26241920.02 0.0275 0.0096

Saturn 67136-01-29 22:19 G 26242008.36 26242008.43 26242008.51 0.0276 0.0232

Jupiter 67138-01-03 05:03 G 26242712.58 26242712.71 26242712.84 0.0545 0.0201

Jupiter 67143-11-17 02:24 G 26244856.56 26244856.60 26244856.64 0.0483 0.0464

Jupiter 67144-02-14 19:55 G 26244946.19 26244946.33 26244946.48 0.0484 0.0213

Earth 67144-07-06 00:58 G 26245088.42 26245088.54 26245088.66 0.2692 0.0335

Moon 67144-07-06 01:41 G 26245088.46 26245088.57 26245088.69 0.2691 0.0450 *

Mars 67144-12-22 13:55 G 26245257.95 26245258.08 26245258.21 0.1627 0.0536

Venus 67146-12-02 09:07 G 26245967.81 26245967.88 26245967.95 0.3688 0.2765

Earth 67147-01-04 11:46 G 26246000.87 26246000.99 26246001.11 0.2639 0.1420

Moon 67147-01-04 12:43 G 26246000.91 26246001.03 26246001.15 0.2636 0.1308 *

Jupiter 67149-10-22 07:41 G 26247022.72 26247022.82 26247022.91 0.0545 0.0397

Saturn 67149-11-21 22:05 G 26247053.35 26247053.42 26247053.50 0.0283 0.0246

Jupiter 67150-01-19 22:05 G 26247112.34 26247112.42 26247112.50 0.0545 0.0432

Saturn 67150-02-18 15:22 G 26247141.99 26247142.14 26247142.30 0.0283 0.0083

Saturn 67150-05-18 09:07 G 26247230.72 26247230.88 26247231.03 0.0283 0.0086

Saturn 67150-08-15 02:53 G 26247319.56 26247319.62 26247319.70 0.0283 0.0257

Venus 67152-06-17 02:39 G 26247991.50 26247991.61 26247991.72 0.3687 0.0336

Mars 67153-07-01 00:15 G 26248370.41 26248370.51 26248370.61 0.1900 0.1265

Mars 67154-05-14 21:22 G 26248688.32 26248688.39 26248688.47 0.1629 0.1355

Uranus 67154-08-17 00:29 G 26248782.45 26248782.52 26248782.59 0.0136 0.0117

Uranus 67154-11-13 04:19 G 26248870.58 26248870.68 26248870.78 0.0136 0.0097

Uranus 67155-02-09 08:10 G 26248958.73 26248958.84 26248958.97 0.0136 0.0077

Uranus 67155-05-08 12:15 G 26249046.88 26249047.01 26249047.14 0.0136 0.0056

Uranus 67155-08-04 16:05 G 26249135.03 26249135.17 26249135.31 0.0136 0.0036

Uranus 67155-10-31 19:55 G 26249223.18 26249223.33 26249223.47 0.0136 0.0016

Jupiter 67155-12-03 21:07 G 26249256.22 26249256.38 26249256.55 0.0483 0.0044

Uranus 67156-01-27 23:31 G 26249311.34 26249311.48 26249311.63 0.0136 0.0007

Uranus 67156-04-25 03:22 G 26249399.50 26249399.64 26249399.78 0.0136 0.0024

Uranus 67156-07-22 07:12 G 26249487.67 26249487.80 26249487.94 0.0136 0.0044

Uranus 67156-10-18 11:03 G 26249575.83 26249575.96 26249576.08 0.0136 0.0064

Uranus 67157-01-14 14:39 G 26249664.00 26249664.11 26249664.22 0.0136 0.0083

Uranus 67157-04-12 18:15 G 26249752.18 26249752.26 26249752.36 0.0137 0.0103

Earth 67157-07-08 20:39 G 26249839.26 26249839.36 26249839.45 0.2690 0.1574

Moon 67157-07-08 21:07 G 26249839.29 26249839.38 26249839.47 0.2684 0.1625 *

Uranus 67157-07-09 22:05 G 26249840.36 26249840.42 26249840.48 0.0137 0.0123

Venus 67157-12-31 19:55 G 26250015.29 26250015.33 26250015.38 0.3686 0.3322

Venus 67159-07-15 12:58 G 26250575.91 26250576.04 26250576.16 0.3684 0.1368

Moon 67160-01-07 12:43 G 26250751.89 26250752.03 26250752.17 0.2634 0.0263

Earth 67160-01-07 12:43 G 26250751.89 26250752.03 26250752.17 0.2641 0.0239 *

Neptune 67161-05-15 01:41 G 26251245.53 26251245.57 26251245.64 0.0089 0.0083

Neptune 67161-08-11 03:36 G 26251333.58 26251333.65 26251333.74 0.0089 0.0075

Neptune 67161-11-07 05:17 G 26251421.64 26251421.72 26251421.83 0.0089 0.0067

Jupiter 67161-11-08 00:43 G 26251422.40 26251422.53 26251422.65 0.0545 0.0239

Neptune 67162-02-03 07:12 G 26251509.70 26251509.80 26251509.92 0.0089 0.0058

Neptune 67162-05-02 08:53 G 26251597.76 26251597.87 26251598.00 0.0089 0.0050

Neptune 67162-07-29 10:48 G 26251685.83 26251685.95 26251686.09 0.0089 0.0041

Neptune 67162-10-25 12:43 G 26251773.90 26251774.03 26251774.17 0.0089 0.0032

Mars 67162-11-21 03:36 G 26251800.52 26251800.65 26251800.78 0.1897 0.0109

Neptune 67163-01-21 14:24 G 26251861.97 26251862.10 26251862.25 0.0089 0.0024

Neptune 67163-04-19 16:19 G 26251950.04 26251950.18 26251950.32 0.0089 0.0016

Neptune 67163-07-16 18:00 G 26252038.11 26252038.25 26252038.39 0.0089 0.0007

Neptune 67163-10-12 19:41 G 26252126.18 26252126.32 26252126.47 0.0089 0.0002

Neptune 67164-01-08 21:36 G 26252214.25 26252214.40 26252214.54 0.0089 0.0010

Neptune 67164-04-05 23:17 G 26252302.33 26252302.47 26252302.61 0.0089 0.0018

Earth 67164-07-01 14:10 G 26252389.01 26252389.09 26252389.17 0.2693 0.2002

Moon 67164-07-01 14:24 G 26252389.02 26252389.10 26252389.17 0.2700 0.2050 *

Neptune 67164-07-03 00:58 G 26252390.40 26252390.54 26252390.68 0.0089 0.0026

Saturn 67164-09-25 05:46 G 26252474.67 26252474.74 26252474.81 0.0275 0.0240

Neptune 67164-09-29 02:24 G 26252478.48 26252478.60 26252478.74 0.0089 0.0034

Saturn 67164-12-22 19:41 G 26252563.18 26252563.32 26252563.46 0.0276 0.0098

Neptune 67164-12-26 04:05 G 26252566.55 26252566.67 26252566.80 0.0089 0.0042

Saturn 67165-03-21 09:22 G 26252651.74 26252651.89 26252652.03 0.0276 0.0042

Neptune 67165-03-24 05:46 G 26252654.63 26252654.74 26252654.87 0.0089 0.0050

Saturn 67165-06-17 22:34 G 26252740.34 26252740.44 26252740.56 0.0276 0.0180

Neptune 67165-06-20 07:27 G 26252742.71 26252742.81 26252742.93 0.0089 0.0058

Mars 67165-09-09 22:34 G 26252824.35 26252824.44 26252824.54 0.1623 0.1159

Neptune 67165-09-16 09:07 G 26252830.79 26252830.88 26252830.98 0.0089 0.0066

Neptune 67165-12-13 10:48 G 26252918.88 26252918.95 26252919.03 0.0089 0.0074

Neptune 67166-03-11 12:15 G 26253006.97 26253007.01 26253007.08 0.0089 0.0083

Jupiter 67167-09-21 22:19 G 26253566.27 26253566.43 26253566.58 0.0484 0.0126

Mars 67172-04-12 07:55 G 26255230.74 26255230.83 26255230.92 0.1894 0.1394

Moon 67173-01-09 13:41 G 26255502.96 26255503.07 26255503.17 0.2637 0.1822

Earth 67173-01-09 14:10 G 26255503.00 26255503.09 26255503.19 0.2642 0.1966 *

Jupiter 67173-08-27 02:39 G 26255732.47 26255732.61 26255732.75 0.0545 0.0033

Mars 67175-01-31 06:29 G 26256254.64 26256254.77 26256254.91 0.1625 0.0395

Earth 67177-07-04 10:05 G 26257139.81 26257139.92 26257140.04 0.2693 0.0704

Moon 67177-07-04 11:03 G 26257139.84 26257139.96 26257140.07 0.2696 0.0537 *

Saturn 67179-07-08 15:36 G 26257874.01 26257874.15 26257874.29 0.0283 0.0133

Jupiter 67179-07-10 23:46 G 26257876.36 26257876.49 26257876.62 0.0483 0.0287

Saturn 67179-10-05 09:07 G 26257962.72 26257962.88 26257963.04 0.0283 0.0035

Jupiter 67179-10-08 18:00 G 26257966.16 26257966.25 26257966.34 0.0484 0.0401

Saturn 67180-01-02 02:53 G 26258051.52 26258051.62 26258051.74 0.0283 0.0205

Moon 67180-01-02 18:00 G 26258052.21 26258052.25 26258052.29 0.2637 0.2506

Mars 67184-06-22 14:10 G 26259684.96 26259685.09 26259685.23 0.1627 0.0408

Jupiter 67185-06-15 03:36 G 26260042.52 26260042.65 26260042.78 0.0545 0.0195

Earth 67190-07-07 06:00 G 26261890.64 26261890.75 26261890.87 0.2691 0.0573

Moon 67190-07-07 06:43 G 26261890.67 26261890.78 26261890.90 0.2689 0.0611 *

Jupiter 67191-04-29 01:27 G 26262186.50 26262186.56 26262186.62 0.0483 0.0446

Jupiter 67191-07-27 18:58 G 26262276.15 26262276.29 26262276.44 0.0484 0.0233

Mars 67192-12-30 00:29 G 26262797.43 26262797.52 26262797.61 0.1900 0.1418

Earth 67193-01-04 17:31 G 26262803.10 26262803.23 26262803.36 0.2640 0.1113

Moon 67193-01-04 18:29 G 26262803.14 26262803.27 26262803.39 0.2635 0.1068 *

Mars 67193-11-12 21:36 G 26263115.31 26263115.40 26263115.49 0.1629 0.1222

Saturn 67194-02-12 08:24 G 26263206.83 26263206.85 26263206.89 0.0275 0.0269

Saturn 67194-05-11 22:34 G 26263295.31 26263295.44 26263295.57 0.0275 0.0126

Saturn 67194-08-08 12:15 G 26263383.86 26263384.01 26263384.15 0.0275 0.0015

Saturn 67194-11-05 01:41 G 26263472.44 26263472.57 26263472.69 0.0276 0.0152

Uranus 67195-03-07 05:31 G 26263594.67 26263594.73 26263594.80 0.0143 0.0131

Uranus 67195-06-03 11:46 G 26263682.88 26263682.99 26263683.11 0.0143 0.0104

Uranus 67195-08-30 18:00 G 26263771.11 26263771.25 26263771.40 0.0142 0.0077

Uranus 67195-11-27 00:29 G 26263859.36 26263859.52 26263859.68 0.0142 0.0049

Uranus 67196-02-23 06:43 G 26263947.62 26263947.78 26263947.96 0.0142 0.0023

Uranus 67196-05-21 13:12 G 26264035.88 26264036.05 26264036.23 0.0142 0.0006

Uranus 67196-08-17 19:41 G 26264124.15 26264124.32 26264124.49 0.0142 0.0033

Uranus 67196-11-14 02:10 G 26264212.44 26264212.59 26264212.75 0.0142 0.0061

Uranus 67197-02-10 08:39 G 26264300.73 26264300.86 26264301.00 0.0142 0.0089

Jupiter 67197-04-03 05:31 G 26264352.64 26264352.73 26264352.83 0.0545 0.0402

Uranus 67197-05-09 15:07 G 26264389.04 26264389.13 26264389.24 0.0142 0.0117

Jupiter 67197-07-01 20:10 G 26264442.26 26264442.34 26264442.42 0.0545 0.0428

Mars 67202-05-22 03:51 G 26266227.53 26266227.66 26266227.80 0.1897 0.0076

Jupiter 67203-05-15 19:55 G 26266586.17 26266586.33 26266586.49 0.0483 0.0058

Venus 67203-07-09 07:12 G 26266640.70 26266640.80 26266640.90 0.3687 0.1592

Earth 67203-07-10 01:41 G 26266641.48 26266641.57 26266641.66 0.2690 0.1804

Moon 67203-07-10 02:10 G 26266641.50 26266641.59 26266641.67 0.2684 0.1857 *

Mars 67205-03-10 22:48 G 26267251.37 26267251.45 26267251.53 0.1623 0.1284

Moon 67206-01-07 18:29 G 26267554.13 26267554.27 26267554.41 0.2634 0.0544

Earth 67206-01-07 18:29 G 26267554.14 26267554.27 26267554.41 0.2641 0.0557 *

Pluto 67207-05-15 00:58 G 26268046.48 26268046.54 26268046.63 0.0065 0.0056

Pluto 67207-08-11 01:41 G 26268134.48 26268134.57 26268134.69 0.0065 0.0045

Pluto 67207-11-07 02:39 G 26268222.49 26268222.61 26268222.74 0.0065 0.0034

Pluto 67208-02-03 03:07 G 26268310.50 26268310.63 26268310.78 0.0065 0.0024

Pluto 67208-05-01 04:05 G 26268398.53 26268398.67 26268398.82 0.0065 0.0013

Pluto 67208-07-28 04:48 G 26268486.55 26268486.70 26268486.85 0.0065 0.0002

Pluto 67208-10-24 05:31 G 26268574.58 26268574.73 26268574.88 0.0065 0.0009

Saturn 67208-11-24 14:53 G 26268606.01 26268606.12 26268606.24 0.0283 0.0189

Pluto 67209-01-20 06:15 G 26268662.62 26268662.76 26268662.90 0.0065 0.0020

Venus 67209-01-22 00:29 G 26268664.42 26268664.52 26268664.62 0.3686 0.1475

Saturn 67209-02-21 08:24 G 26268694.69 26268694.85 26268695.01 0.0283 0.0024

Pluto 67209-04-18 06:43 G 26268750.66 26268750.78 26268750.92 0.0066 0.0031

Jupiter 67209-04-19 23:03 G 26268752.33 26268752.46 26268752.58 0.0545 0.0240

Saturn 67209-05-21 01:55 G 26268783.45 26268783.58 26268783.73 0.0283 0.0145

Pluto 67209-07-15 07:27 G 26268838.71 26268838.81 26268838.94 0.0066 0.0042

Pluto 67209-10-11 08:24 G 26268926.76 26268926.85 26268926.94 0.0066 0.0052

Pluto 67210-01-07 09:07 G 26269014.84 26269014.88 26269014.92 0.0066 0.0063

Earth 67210-07-02 19:12 G 26269191.21 26269191.30 26269191.39 0.2693 0.1755

Moon 67210-07-02 19:41 G 26269191.23 26269191.32 26269191.41 0.2699 0.1656 *

Mars 67211-10-12 07:55 G 26269657.73 26269657.83 26269657.92 0.1894 0.1263

Mars 67214-08-01 06:43 G 26270681.65 26270681.78 26270681.91 0.1625 0.0512

Jupiter 67215-03-03 21:07 G 26270896.23 26270896.38 26270896.54 0.0483 0.0109

Venus 67216-02-19 12:43 G 26271248.89 26271249.03 26271249.16 0.3684 0.0494

Moon 67219-01-10 19:12 G 26272305.22 26272305.30 26272305.37 0.2638 0.2225

Earth 67219-01-10 20:10 G 26272305.27 26272305.34 26272305.41 0.2642 0.2284 *

Jupiter 67221-02-06 01:27 G 26273062.42 26273062.56 26273062.70 0.0545 0.0046

Earth 67223-07-05 15:22 G 26273942.02 26273942.14 26273942.25 0.2692 0.0461

Moon 67223-07-05 16:05 G 26273942.05 26273942.17 26273942.29 0.2695 0.0445 *

Saturn 67223-09-28 22:19 G 26274027.32 26274027.43 26274027.54 0.0275 0.0183

Mars 67223-12-22 14:24 G 26274111.97 26274112.10 26274112.24 0.1627 0.0277

Saturn 67223-12-26 12:15 G 26274115.86 26274116.01 26274116.15 0.0276 0.0042

Saturn 67224-03-24 01:41 G 26274204.43 26274204.57 26274204.71 0.0276 0.0098

Saturn 67224-06-20 14:53 G 26274293.05 26274293.12 26274293.20 0.0276 0.0234

Earth 67226-01-02 22:34 G 26274854.39 26274854.44 26274854.49 0.2639 0.2420

Moon 67226-01-02 23:46 G 26274854.44 26274854.49 26274854.55 0.2637 0.2391 *

Jupiter 67226-12-20 22:19 G 26275206.30 26275206.43 26275206.57 0.0483 0.0276

Jupiter 67227-03-20 16:34 G 26275296.11 26275296.19 26275296.28 0.0484 0.0412

Mars 67232-06-30 00:29 G 26277224.45 26277224.52 26277224.60 0.1900 0.1563

Jupiter 67232-11-25 03:22 G 26277372.51 26277372.64 26277372.78 0.0545 0.0162

Mars 67233-05-13 22:05 G 26277542.31 26277542.42 26277542.52 0.1629 0.1089

Earth 67236-07-07 11:03 G 26278692.85 26278692.96 26278693.08 0.2691 0.0809

Moon 67236-07-07 11:46 G 26278692.88 26278692.99 26278693.10 0.2687 0.0953 *

Saturn 67238-04-13 14:39 G 26279338.04 26279338.11 26279338.20 0.0283 0.0243

Uranus 67238-06-10 04:05 G 26279395.64 26279395.67 26279395.73 0.0136 0.0129

Saturn 67238-07-11 08:10 G 26279426.68 26279426.84 26279426.99 0.0283 0.0078

Uranus 67238-09-06 08:10 G 26279483.76 26279483.84 26279483.93 0.0136 0.0108

Saturn 67238-10-08 01:41 G 26279515.42 26279515.57 26279515.73 0.0283 0.0090

Jupiter 67238-10-09 00:00 G 26279516.44 26279516.50 26279516.57 0.0483 0.0435

Uranus 67238-12-03 12:00 G 26279571.90 26279572.00 26279572.12 0.0136 0.0088

Saturn 67239-01-04 19:41 G 26279604.26 26279604.32 26279604.38 0.0283 0.0261

Earth 67239-01-05 23:17 G 26279605.34 26279605.47 26279605.60 0.2640 0.0812

Moon 67239-01-05 23:46 G 26279605.36 26279605.49 26279605.63 0.2634 0.0691 *

Jupiter 67239-01-06 17:46 G 26279606.10 26279606.24 26279606.38 0.0484 0.0245

Uranus 67239-03-01 15:51 G 26279660.05 26279660.16 26279660.30 0.0136 0.0068

Uranus 67239-05-28 19:55 G 26279748.20 26279748.33 26279748.47 0.0136 0.0047

Uranus 67239-08-24 23:46 G 26279836.35 26279836.49 26279836.64 0.0136 0.0027

Uranus 67239-11-21 03:36 G 26279924.51 26279924.65 26279924.80 0.0136 0.0008

Uranus 67240-02-17 07:27 G 26280012.67 26280012.81 26280012.95 0.0136 0.0013

Uranus 67240-05-15 11:17 G 26280100.83 26280100.97 26280101.11 0.0136 0.0033

Uranus 67240-08-11 14:53 G 26280188.99 26280189.12 26280189.26 0.0136 0.0053

Uranus 67240-11-07 18:43 G 26280277.16 26280277.28 26280277.40 0.0136 0.0073

Uranus 67241-02-03 22:19 G 26280365.33 26280365.43 26280365.54 0.0136 0.0092

Uranus 67241-05-03 02:10 G 26280453.51 26280453.59 26280453.67 0.0137 0.0112

Uranus 67241-07-30 05:31 G 26280541.71 26280541.73 26280541.78 0.0137 0.0132

Mars 67241-11-20 04:05 G 26280654.54 26280654.67 26280654.81 0.1897 0.0210

Mars 67244-09-08 23:03 G 26281678.39 26281678.46 26281678.53 0.1623 0.1405

Jupiter 67244-09-13 04:05 G 26281682.58 26281682.67 26281682.77 0.0545 0.0395

Neptune 67244-10-16 19:27 G 26281716.26 26281716.31 26281716.37 0.0088 0.0083

Jupiter 67244-12-11 18:43 G 26281772.20 26281772.28 26281772.36 0.0545 0.0434

Neptune 67245-01-12 21:51 G 26281804.33 26281804.41 26281804.51 0.0088 0.0074

Neptune 67245-04-11 00:29 G 26281892.41 26281892.52 26281892.64 0.0088 0.0065

Neptune 67245-07-08 02:53 G 26281980.50 26281980.62 26281980.77 0.0088 0.0056

Neptune 67245-10-04 05:31 G 26282068.60 26282068.73 26282068.89 0.0088 0.0047

Neptune 67245-12-31 08:10 G 26282156.69 26282156.84 26282157.00 0.0088 0.0038

Neptune 67246-03-29 11:03 G 26282244.79 26282244.96 26282245.12 0.0088 0.0028

Neptune 67246-06-25 13:27 G 26282332.90 26282333.06 26282333.24 0.0088 0.0019

Neptune 67246-09-21 16:05 G 26282421.00 26282421.17 26282421.35 0.0088 0.0010

Neptune 67246-12-18 18:58 G 26282509.11 26282509.29 26282509.46 0.0088 0.0002

Neptune 67247-03-16 21:36 G 26282597.22 26282597.40 26282597.57 0.0088 0.0009

Neptune 67247-06-13 00:00 G 26282685.34 26282685.50 26282685.68 0.0088 0.0019

Neptune 67247-09-09 02:53 G 26282773.46 26282773.62 26282773.79 0.0088 0.0028

Neptune 67247-12-06 05:17 G 26282861.58 26282861.72 26282861.89 0.0088 0.0038

Neptune 67248-03-03 08:10 G 26282949.70 26282949.84 26282949.99 0.0088 0.0047

Neptune 67248-05-30 10:48 G 26283037.83 26283037.95 26283038.09 0.0088 0.0057

Neptune 67248-08-26 13:41 G 26283125.96 26283126.07 26283126.19 0.0088 0.0066

Neptune 67248-11-22 16:19 G 26283214.10 26283214.18 26283214.28 0.0088 0.0076

Neptune 67249-02-18 18:43 G 26283302.27 26283302.28 26283302.34 0.0088 0.0086

Earth 67249-07-10 06:43 G 26283443.71 26283443.78 26283443.86 0.2690 0.2036

Moon 67249-07-10 07:12 G 26283443.72 26283443.80 26283443.87 0.2684 0.2040 *

Jupiter 67250-10-25 18:58 G 26283916.13 26283916.29 26283916.46 0.0484 0.0079

Mars 67251-04-12 08:10 G 26284084.73 26284084.84 26284084.94 0.1894 0.1113

Moon 67252-01-09 00:15 G 26284356.38 26284356.51 26284356.65 0.2634 0.0841

Earth 67252-01-09 00:29 G 26284356.39 26284356.52 26284356.65 0.2641 0.0870 *

Saturn 67253-02-15 00:58 G 26284759.46 26284759.54 26284759.64 0.0275 0.0212

Saturn 67253-05-14 15:07 G 26284847.98 26284848.13 26284848.27 0.0275 0.0070

Saturn 67253-08-11 04:34 G 26284936.55 26284936.69 26284936.83 0.0276 0.0070

Saturn 67253-11-07 18:00 G 26285025.15 26285025.25 26285025.34 0.0276 0.0207

Mars 67254-01-30 06:58 G 26285108.67 26285108.79 26285108.92 0.1625 0.0640

Venus 67254-07-30 11:31 G 26285289.95 26285289.98 26285290.00 0.3688 0.3560

Earth 67256-07-03 00:29 G 26285993.42 26285993.52 26285993.61 0.2693 0.1511

Moon 67256-07-03 00:58 G 26285993.44 26285993.54 26285993.64 0.2699 0.1489 *

Jupiter 67256-09-29 20:53 G 26286082.25 26286082.37 26286082.50 0.0545 0.0237

Venus 67260-02-13 05:03 G 26287313.60 26287313.71 26287313.82 0.3687 0.0427

Jupiter 67262-08-13 19:55 G 26288226.17 26288226.33 26288226.49 0.0483 0.0096

Mars 67263-06-22 14:39 G 26288538.97 26288539.11 26288539.25 0.1627 0.0153

Moon 67265-01-11 00:58 G 26289107.49 26289107.54 26289107.59 0.2639 0.2482

Earth 67265-01-11 02:10 G 26289107.57 26289107.59 26289107.60 0.2642 0.2616 *

Venus 67265-08-28 22:34 G 26289337.36 26289337.44 26289337.51 0.3686 0.2602

Venus 67267-03-12 12:00 G 26289897.92 26289898.00 26289898.08 0.3683 0.2859

Saturn 67267-11-28 07:41 G 26290158.68 26290158.82 26290158.97 0.0283 0.0131

Saturn 67268-02-25 01:12 G 26290247.39 26290247.55 26290247.71 0.0283 0.0036

Saturn 67268-05-23 18:58 G 26290336.18 26290336.29 26290336.41 0.0283 0.0205

Jupiter 67268-07-18 23:46 G 26290392.35 26290392.49 26290392.63 0.0545 0.0046

Earth 67269-07-05 20:24 G 26290744.23 26290744.35 26290744.47 0.2692 0.0215

Moon 67269-07-05 21:07 G 26290744.26 26290744.38 26290744.50 0.2694 0.0088 *

Mars 67271-12-30 00:43 G 26291651.48 26291651.53 26291651.59 0.1900 0.1716

Earth 67272-01-04 04:19 G 26291656.60 26291656.68 26291656.76 0.2639 0.2125

Moon 67272-01-04 05:31 G 26291656.63 26291656.73 26291656.82 0.2637 0.1921 *

Venus 67272-09-25 12:15 G 26291921.91 26291922.01 26291922.12 0.3684 0.2340

Mars 67272-11-11 22:19 G 26291969.31 26291969.43 26291969.54 0.1629 0.0959

Jupiter 67274-06-01 21:22 G 26292536.26 26292536.39 26292536.53 0.0483 0.0259

Jupiter 67274-08-30 15:22 G 26292626.07 26292626.14 26292626.22 0.0484 0.0429

Uranus 67279-03-27 13:27 G 26294295.98 26294296.06 26294296.16 0.0143 0.0120

Uranus 67279-06-23 19:55 G 26294384.20 26294384.33 26294384.46 0.0143 0.0093

Uranus 67279-09-20 02:10 G 26294472.44 26294472.59 26294472.74 0.0142 0.0066

Uranus 67279-12-17 08:24 G 26294560.69 26294560.85 26294561.02 0.0142 0.0039

Uranus 67280-03-14 14:53 G 26294648.95 26294649.12 26294649.29 0.0142 0.0011

Jupiter 67280-05-07 02:10 G 26294702.45 26294702.59 26294702.72 0.0545 0.0152

Uranus 67280-06-10 21:22 G 26294737.21 26294737.39 26294737.56 0.0142 0.0017

Uranus 67280-09-07 03:36 G 26294825.49 26294825.65 26294825.82 0.0142 0.0044

Uranus 67280-12-04 10:05 G 26294913.78 26294913.92 26294914.08 0.0142 0.0072

Uranus 67281-03-02 16:34 G 26295002.08 26295002.19 26295002.32 0.0142 0.0100

Mars 67281-05-21 04:05 G 26295081.54 26295081.67 26295081.80 0.1897 0.0337

Uranus 67281-05-29 23:03 G 26295090.40 26295090.46 26295090.55 0.0142 0.0128

Saturn 67282-07-05 00:58 G 26295491.51 26295491.54 26295491.57 0.0275 0.0268

Earth 67282-07-08 16:19 G 26295495.07 26295495.18 26295495.28 0.2691 0.1049

Moon 67282-07-08 17:03 G 26295495.10 26295495.21 26295495.32 0.2687 0.1047 *

Saturn 67282-10-01 14:53 G 26295579.99 26295580.12 26295580.26 0.0275 0.0126

Saturn 67282-12-29 04:34 G 26295668.55 26295668.69 26295668.84 0.0276 0.0017

Saturn 67283-03-27 18:00 G 26295757.13 26295757.25 26295757.38 0.0276 0.0153

Mars 67284-03-09 23:17 G 26296105.43 26296105.47 26296105.51 0.1623 0.1530

Earth 67285-01-06 05:03 G 26296407.58 26296407.71 26296407.85 0.2640 0.0505

Moon 67285-01-06 05:31 G 26296407.59 26296407.73 26296407.87 0.2633 0.0544 *

Jupiter 67286-03-20 22:34 G 26296846.37 26296846.44 26296846.52 0.0483 0.0425

Jupiter 67286-06-18 16:19 G 26296936.04 26296936.18 26296936.32 0.0484 0.0255

Moon 67289-07-01 09:22 G 26298044.86 26298044.89 26298044.92 0.2701 0.2590

Earth 67289-07-01 09:22 G 26298044.86 26298044.89 26298044.92 0.2694 0.2586 *

Mars 67290-10-11 08:10 G 26298511.73 26298511.84 26298511.96 0.1894 0.0963

Jupiter 67292-02-24 04:05 G 26299012.56 26299012.67 26299012.77 0.0545 0.0361

Jupiter 67292-05-23 18:29 G 26299102.20 26299102.27 26299102.34 0.0544 0.0466

Mars 67293-07-31 07:12 G 26299535.68 26299535.80 26299535.93 0.1625 0.0769

Earth 67295-07-11 11:46 G 26300245.93 26300245.99 26300246.05 0.2690 0.2263

Moon 67295-07-11 12:00 G 26300245.94 26300246.00 26300246.05 0.2684 0.2320 *

Pluto 67295-08-10 16:34 G 26300276.15 26300276.19 26300276.25 0.0079 0.0075

Pluto 67295-11-06 18:29 G 26300364.16 26300364.27 26300364.40 0.0079 0.0054

Pluto 67296-02-02 20:24 G 26300452.21 26300452.35 26300452.51 0.0079 0.0033

Pluto 67296-04-30 22:19 G 26300540.27 26300540.43 26300540.60 0.0079 0.0012

Pluto 67296-07-28 00:15 G 26300628.35 26300628.51 26300628.68 0.0078 0.0010

Pluto 67296-10-24 02:10 G 26300716.44 26300716.59 26300716.74 0.0078 0.0030

Pluto 67297-01-20 03:51 G 26300804.54 26300804.66 26300804.79 0.0078 0.0051

Saturn 67297-04-16 07:27 G 26300890.69 26300890.81 26300890.93 0.0283 0.0186

Pluto 67297-04-18 05:31 G 26300892.69 26300892.73 26300892.81 0.0078 0.0072

Saturn 67297-07-14 00:43 G 26300979.37 26300979.53 26300979.69 0.0283 0.0022

Saturn 67297-10-10 18:29 G 26301068.13 26301068.27 26301068.41 0.0283 0.0147

Moon 67298-01-09 06:00 G 26301158.62 26301158.75 26301158.88 0.2635 0.1190

Earth 67298-01-09 06:15 G 26301158.64 26301158.76 26301158.89 0.2641 0.1183 *

Jupiter 67298-04-06 17:46 G 26301246.08 26301246.24 26301246.40 0.0484 0.0090

Earth 67302-07-05 05:31 G 26302795.62 26302795.73 26302795.83 0.2693 0.1262

Moon 67302-07-05 06:15 G 26302795.65 26302795.76 26302795.86 0.2698 0.1172 *

Mars 67302-12-22 14:53 G 26302965.98 26302966.12 26302966.26 0.1627 0.0047

Jupiter 67304-03-12 19:41 G 26303412.19 26303412.32 26303412.44 0.0545 0.0244

Jupiter 67310-01-24 19:12 G 26305556.13 26305556.30 26305556.46 0.0484 0.0077

Venus 67311-03-07 09:22 G 26305962.81 26305962.89 26305962.98 0.3688 0.2383

Mars 67311-07-01 00:58 G 26306078.51 26306078.54 26306078.56 0.1900 0.1862

Saturn 67312-02-19 17:46 G 26306312.12 26306312.24 26306312.37 0.0276 0.0153

Mars 67312-05-13 22:34 G 26306396.32 26306396.44 26306396.56 0.1629 0.0827

Saturn 67312-05-18 07:41 G 26306400.67 26306400.82 26306400.96 0.0276 0.0013

Saturn 67312-08-14 21:07 G 26306489.25 26306489.38 26306489.51 0.0276 0.0126

Saturn 67312-11-11 10:19 G 26306577.89 26306577.93 26306577.97 0.0276 0.0262

Earth 67315-07-08 01:27 G 26307546.44 26307546.56 26307546.68 0.2692 0.0049

Moon 67315-07-08 02:24 G 26307546.48 26307546.60 26307546.72 0.2692 0.0089 *

Jupiter 67315-12-30 21:51 G 26307722.27 26307722.41 26307722.54 0.0545 0.0043

Venus 67316-09-20 02:53 G 26307986.52 26307986.62 26307986.73 0.3687 0.0731

Earth 67318-01-05 10:05 G 26308458.82 26308458.92 26308459.02 0.2639 0.1828

Moon 67318-01-05 11:03 G 26308458.86 26308458.96 26308459.06 0.2636 0.1805 *

Mars 67320-11-20 04:19 G 26309508.55 26309508.68 26309508.81 0.1897 0.0494

Jupiter 67321-11-12 20:10 G 26309866.20 26309866.34 26309866.48 0.0483 0.0246

Jupiter 67322-02-10 14:10 G 26309956.03 26309956.09 26309956.16 0.0484 0.0441

Uranus 67322-07-01 12:15 G 26310096.94 26310097.01 26310097.08 0.0136 0.0119

Uranus 67322-09-27 16:05 G 26310185.08 26310185.17 26310185.27 0.0136 0.0099

Uranus 67322-12-24 19:55 G 26310273.22 26310273.33 26310273.46 0.0136 0.0079

Uranus 67323-03-23 00:00 G 26310361.37 26310361.50 26310361.63 0.0136 0.0058

Uranus 67323-06-19 03:51 G 26310449.52 26310449.66 26310449.80 0.0136 0.0038

Uranus 67323-09-15 07:41 G 26310537.68 26310537.82 26310537.96 0.0136 0.0018

Venus 67323-10-18 11:31 G 26310570.85 26310570.98 26310571.10 0.3683 0.1088

Uranus 67323-12-12 11:31 G 26310625.84 26310625.98 26310626.12 0.0136 0.0002

Uranus 67324-03-09 15:22 G 26310714.00 26310714.14 26310714.28 0.0136 0.0022

Uranus 67324-06-05 18:58 G 26310802.16 26310802.29 26310802.43 0.0136 0.0042

Uranus 67324-09-01 22:48 G 26310890.33 26310890.45 26310890.58 0.0136 0.0062

Uranus 67324-11-29 02:39 G 26310978.50 26310978.61 26310978.72 0.0136 0.0081

Uranus 67325-02-25 06:15 G 26311066.67 26311066.76 26311066.86 0.0136 0.0101

Uranus 67325-05-24 09:51 G 26311154.85 26311154.91 26311154.98 0.0136 0.0121

Neptune 67326-02-10 00:15 G 26311416.46 26311416.51 26311416.58 0.0089 0.0082

Neptune 67326-05-09 02:24 G 26311504.51 26311504.60 26311504.68 0.0089 0.0073

Neptune 67326-08-05 03:51 G 26311592.57 26311592.66 26311592.77 0.0089 0.0065

Saturn 67326-09-04 07:41 G 26311622.73 26311622.82 26311622.91 0.0283 0.0234

Neptune 67326-11-01 06:00 G 26311680.63 26311680.75 26311680.86 0.0089 0.0056

Saturn 67326-12-02 00:43 G 26311711.38 26311711.53 26311711.69 0.0283 0.0072

Neptune 67327-01-28 07:41 G 26311768.70 26311768.82 26311768.95 0.0089 0.0047

Saturn 67327-02-28 18:29 G 26311800.11 26311800.27 26311800.42 0.0283 0.0096

Neptune 67327-04-26 09:22 G 26311856.77 26311856.89 26311857.03 0.0089 0.0039

Saturn 67327-05-28 12:15 G 26311888.96 26311889.01 26311889.07 0.0283 0.0267

Neptune 67327-07-23 11:17 G 26311944.83 26311944.97 26311945.11 0.0089 0.0031

Jupiter 67327-10-19 00:15 G 26312032.37 26312032.51 26312032.64 0.0545 0.0156

Neptune 67327-10-19 12:58 G 26312032.90 26312033.04 26312033.19 0.0089 0.0022

Neptune 67328-01-15 14:39 G 26312120.97 26312121.11 26312121.26 0.0089 0.0015

Neptune 67328-04-12 16:34 G 26312209.05 26312209.19 26312209.34 0.0089 0.0006

Neptune 67328-07-09 18:15 G 26312297.12 26312297.26 26312297.41 0.0089 0.0003

Earth 67328-07-09 21:22 G 26312297.28 26312297.39 26312297.49 0.2691 0.1277 *

Moon 67328-07-09 22:05 G 26312297.32 26312297.42 26312297.52 0.2687 0.1423 *

Neptune 67328-10-05 19:55 G 26312385.19 26312385.33 26312385.48 0.0089 0.0011

Neptune 67329-01-01 21:36 G 26312473.27 26312473.40 26312473.55 0.0089 0.0020

Neptune 67329-03-30 23:31 G 26312561.34 26312561.48 26312561.62 0.0089 0.0027

Neptune 67329-06-27 01:12 G 26312649.42 26312649.55 26312649.68 0.0089 0.0036

Neptune 67329-09-23 02:53 G 26312737.50 26312737.62 26312737.75 0.0089 0.0044

Neptune 67329-12-20 04:34 G 26312825.57 26312825.69 26312825.81 0.0089 0.0052

Neptune 67330-03-18 06:00 G 26312913.66 26312913.75 26312913.87 0.0089 0.0060

Mars 67330-04-12 08:24 G 26312938.73 26312938.85 26312938.96 0.1894 0.0826

Neptune 67330-06-14 07:41 G 26313001.74 26313001.82 26313001.92 0.0089 0.0068

Neptune 67330-09-10 09:22 G 26313089.83 26313089.89 26313089.97 0.0089 0.0076

Neptune 67330-12-07 10:48 G 26313177.92 26313177.95 26313178.01 0.0089 0.0085

Earth 67331-01-08 10:48 G 26313209.81 26313209.95 26313210.09 0.2640 0.0205

Moon 67331-01-08 11:17 G 26313209.83 26313209.97 26313210.11 0.2633 0.0082 *

Mars 67333-01-30 07:27 G 26313962.70 26313962.81 26313962.93 0.1625 0.0888

Jupiter 67333-08-31 21:36 G 26314176.32 26314176.40 26314176.49 0.0483 0.0409

Jupiter 67333-11-29 15:22 G 26314266.00 26314266.14 26314266.27 0.0483 0.0270

Earth 67335-07-03 14:24 G 26314847.04 26314847.10 26314847.16 0.2694 0.2337

Moon 67335-07-03 14:39 G 26314847.06 26314847.11 26314847.17 0.2701 0.2360 *

Jupiter 67339-08-07 02:39 G 26316342.50 26316342.61 26316342.71 0.0545 0.0354

Jupiter 67339-11-04 17:03 G 26316432.15 26316432.21 26316432.28 0.0545 0.0474

Saturn 67341-07-08 17:46 G 26317044.15 26317044.24 26317044.34 0.0275 0.0209

Moon 67341-07-12 16:48 G 26317048.15 26317048.20 26317048.25 0.2683 0.2415

Earth 67341-07-12 16:48 G 26317048.16 26317048.20 26317048.24 0.2690 0.2493 *

Saturn 67341-10-05 07:41 G 26317132.68 26317132.82 26317132.96 0.0275 0.0067

Saturn 67342-01-01 21:22 G 26317221.25 26317221.39 26317221.53 0.0276 0.0072

Saturn 67342-03-31 10:34 G 26317309.85 26317309.94 26317310.04 0.0276 0.0209

Mars 67342-06-22 15:22 G 26317393.00 26317393.14 26317393.27 0.1627 0.0119

Moon 67344-01-11 11:31 G 26317960.86 26317960.98 26317961.10 0.2636 0.1365

Earth 67344-01-11 12:15 G 26317960.89 26317961.01 26317961.12 0.2641 0.1507 *

Jupiter 67345-09-17 16:05 G 26318576.01 26318576.17 26318576.34 0.0484 0.0099

Earth 67348-07-05 10:34 G 26319597.83 26319597.94 26319598.05 0.2693 0.1022

Moon 67348-07-05 11:17 G 26319597.86 26319597.97 26319598.08 0.2698 0.0963 *

Jupiter 67351-08-23 19:27 G 26320742.19 26320742.31 26320742.43 0.0545 0.0275

Mars 67351-11-12 22:48 G 26320823.33 26320823.45 26320823.58 0.1629 0.0694

Saturn 67356-04-20 00:15 G 26322443.37 26322443.51 26322443.65 0.0283 0.0128

Saturn 67356-07-17 17:46 G 26322532.08 26322532.24 26322532.40 0.0283 0.0038

Saturn 67356-10-14 11:31 G 26322620.87 26322620.98 26322621.09 0.0283 0.0207

Jupiter 67357-07-06 17:46 G 26322886.07 26322886.24 26322886.40 0.0484 0.0066

Mars 67360-05-21 04:34 G 26323935.57 26323935.69 26323935.82 0.1897 0.0650

Mars 67361-04-04 06:00 G 26324253.71 26324253.75 26324253.80 0.1632 0.1523

Earth 67361-07-08 06:43 G 26324348.66 26324348.78 26324348.89 0.2692 0.0278

Moon 67361-07-08 07:27 G 26324348.69 26324348.81 26324348.93 0.2690 0.0395 *

Uranus 67363-01-19 14:39 G 26324909.08 26324909.11 26324909.16 0.0143 0.0138

Uranus 67363-04-17 21:07 G 26324997.27 26324997.38 26324997.48 0.0143 0.0111

Jupiter 67363-06-11 20:24 G 26325052.21 26325052.35 26325052.49 0.0545 0.0048

Uranus 67363-07-15 03:07 G 26325085.50 26325085.63 26325085.77 0.0142 0.0084

Uranus 67363-10-11 09:22 G 26325173.74 26325173.89 26325174.06 0.0142 0.0057

Earth 67364-01-06 15:51 G 26325261.05 26325261.16 26325261.27 0.2639 0.1524

Moon 67364-01-06 16:48 G 26325261.08 26325261.20 26325261.31 0.2634 0.1383 *

Uranus 67364-01-07 15:51 G 26325261.99 26325262.16 26325262.33 0.0142 0.0030

Uranus 67364-04-04 22:19 G 26325350.25 26325350.43 26325350.60 0.0142 0.0004

Uranus 67364-07-02 04:34 G 26325438.52 26325438.69 26325438.86 0.0142 0.0025

Uranus 67364-09-28 11:03 G 26325526.80 26325526.96 26325527.12 0.0142 0.0053

Uranus 67364-12-25 17:17 G 26325615.09 26325615.22 26325615.38 0.0142 0.0082

Uranus 67365-03-24 00:00 G 26325703.40 26325703.50 26325703.62 0.0142 0.0109

Uranus 67365-06-20 06:29 G 26325791.74 26325791.77 26325791.82 0.0142 0.0137

Venus 67367-10-12 07:27 G 26326635.70 26326635.81 26326635.91 0.3688 0.1208

Jupiter 67369-04-24 19:12 G 26327196.16 26327196.30 26327196.44 0.0484 0.0230

Jupiter 67369-07-23 13:12 G 26327286.00 26327286.05 26327286.10 0.0484 0.0460

Mars 67369-10-11 08:24 G 26327365.73 26327365.85 26327365.97 0.1894 0.0683

Saturn 67370-11-25 20:24 G 26327776.28 26327776.35 26327776.43 0.0276 0.0237

Saturn 67371-02-22 10:34 G 26327864.80 26327864.94 26327865.08 0.0276 0.0094

Saturn 67371-05-22 00:15 G 26327953.36 26327953.51 26327953.65 0.0276 0.0046

Saturn 67371-08-18 13:41 G 26328041.96 26328042.07 26328042.18 0.0276 0.0183

Mars 67372-07-31 07:41 G 26328389.71 26328389.82 26328389.93 0.1625 0.1012

Venus 67373-04-27 00:43 G 26328659.44 26328659.53 26328659.63 0.3687 0.1850

Earth 67374-07-11 02:24 G 26329099.50 26329099.60 26329099.69 0.2691 0.1511

Moon 67374-07-11 02:53 G 26329099.52 26329099.62 26329099.72 0.2686 0.1501 *

Jupiter 67375-03-30 22:19 G 26329362.29 26329362.43 26329362.56 0.0545 0.0161

Earth 67377-01-08 16:48 G 26330012.06 26330012.20 26330012.34 0.2640 0.0136

Moon 67377-01-08 17:03 G 26330012.07 26330012.21 26330012.35 0.2634 0.0069 *

Venus 67380-05-24 11:17 G 26331243.83 26331243.97 26331244.10 0.3684 0.0764

Jupiter 67381-02-10 20:10 G 26331506.26 26331506.34 26331506.44 0.0483 0.0399

Jupiter 67381-05-11 13:55 G 26331595.94 26331596.08 26331596.21 0.0483 0.0281

Earth 67381-07-03 19:41 G 26331649.24 26331649.32 26331649.39 0.2694 0.2086

Moon 67381-07-03 19:55 G 26331649.25 26331649.33 26331649.41 0.2701 0.2000 *

Mars 67381-12-21 15:36 G 26331820.01 26331820.15 26331820.28 0.1627 0.0238

Saturn 67385-09-07 00:58 G 26333175.42 26333175.54 26333175.67 0.0283 0.0171

Saturn 67385-12-04 18:29 G 26333264.11 26333264.27 26333264.43 0.0283 0.0008

Saturn 67386-03-03 12:00 G 26333352.87 26333353.00 26333353.14 0.0283 0.0162

Jupiter 67387-01-17 00:29 G 26333672.42 26333672.52 26333672.62 0.0545 0.0362

Jupiter 67387-04-16 15:07 G 26333762.06 26333762.13 26333762.20 0.0545 0.0468

Moon 67390-01-11 17:17 G 26334763.11 26334763.22 26334763.32 0.2636 0.1822

Earth 67390-01-11 18:00 G 26334763.15 26334763.25 26334763.35 0.2641 0.1821 *

Mars 67391-05-13 23:03 G 26335250.33 26335250.46 26335250.59 0.1629 0.0567

Jupiter 67393-02-27 14:53 G 26335905.96 26335906.12 26335906.28 0.0483 0.0111

Earth 67394-07-06 15:51 G 26336400.04 26336400.16 26336400.27 0.2693 0.0778

Moon 67394-07-06 16:34 G 26336400.07 26336400.19 26336400.30 0.2696 0.0717 *

Jupiter 67399-02-02 17:46 G 26338072.12 26338072.24 26338072.36 0.0545 0.0278

Mars 67399-11-20 04:34 G 26338362.57 26338362.69 26338362.81 0.1897 0.0773

Saturn 67400-07-12 10:48 G 26338596.82 26338596.95 26338597.07 0.0275 0.0148

Mars 67400-10-04 06:29 G 26338680.70 26338680.77 26338680.84 0.1632 0.1384

Saturn 67400-10-09 00:29 G 26338685.38 26338685.52 26338685.67 0.0276 0.0010

Saturn 67401-01-05 14:10 G 26338773.96 26338774.09 26338774.22 0.0276 0.0132

Saturn 67401-04-04 03:22 G 26338862.61 26338862.64 26338862.67 0.0276 0.0267

Jupiter 67404-12-17 16:05 G 26340216.01 26340216.17 26340216.33 0.0483 0.0060

Uranus 67406-04-25 15:51 G 26340710.13 26340710.16 26340710.21 0.0136 0.0131

Uranus 67406-07-22 19:41 G 26340798.25 26340798.32 26340798.42 0.0136 0.0111

Uranus 67406-10-18 23:46 G 26340886.39 26340886.49 26340886.61 0.0136 0.0090

Uranus 67407-01-15 03:51 G 26340974.54 26340974.66 26340974.79 0.0136 0.0069

Uranus 67407-04-13 07:41 G 26341062.69 26341062.82 26341062.96 0.0136 0.0049

Uranus 67407-07-10 11:46 G 26341150.84 26341150.99 26341151.13 0.0136 0.0029

Earth 67407-07-10 11:46 G 26341150.87 26341150.99 26341151.10 0.2692 0.0503 *

Moon 67407-07-10 12:29 G 26341150.91 26341151.02 26341151.14 0.2690 0.0576 *

Uranus 67407-10-06 15:22 G 26341239.00 26341239.14 26341239.29 0.0136 0.0010

Uranus 67408-01-02 19:12 G 26341327.16 26341327.30 26341327.45 0.0136 0.0012

Uranus 67408-03-30 23:03 G 26341415.32 26341415.46 26341415.60 0.0136 0.0031

Uranus 67408-06-27 02:53 G 26341503.49 26341503.62 26341503.75 0.0136 0.0051

Uranus 67408-09-23 06:43 G 26341591.66 26341591.78 26341591.90 0.0136 0.0071

Uranus 67408-12-20 10:19 G 26341679.83 26341679.93 26341680.04 0.0136 0.0090

Uranus 67409-03-18 13:55 G 26341768.01 26341768.08 26341768.17 0.0136 0.0110

Mars 67409-04-12 08:39 G 26341792.74 26341792.86 26341792.99 0.1894 0.0525

Uranus 67409-06-14 17:46 G 26341856.20 26341856.24 26341856.28 0.0136 0.0130

Neptune 67409-07-15 17:17 G 26341887.17 26341887.22 26341887.31 0.0088 0.0080

Neptune 67409-10-11 19:55 G 26341975.24 26341975.33 26341975.44 0.0088 0.0071

Earth 67410-01-07 21:36 G 26342063.28 26342063.40 26342063.52 0.2639 0.1223

Moon 67410-01-07 22:19 G 26342063.31 26342063.43 26342063.56 0.2634 0.1183 *

Neptune 67410-01-07 22:34 G 26342063.33 26342063.44 26342063.57 0.0088 0.0062 *

Neptune 67410-04-06 00:58 G 26342151.42 26342151.54 26342151.69 0.0088 0.0053

Neptune 67410-07-03 03:36 G 26342239.51 26342239.65 26342239.81 0.0088 0.0044

Neptune 67410-09-29 06:29 G 26342327.61 26342327.77 26342327.93 0.0088 0.0034

Jupiter 67410-11-22 19:55 G 26342382.19 26342382.33 26342382.47 0.0545 0.0076

Neptune 67410-12-26 09:07 G 26342415.71 26342415.88 26342416.04 0.0088 0.0025

Neptune 67411-03-24 11:31 G 26342503.82 26342503.98 26342504.16 0.0088 0.0016

Neptune 67411-06-20 14:10 G 26342591.92 26342592.09 26342592.27 0.0088 0.0007

Neptune 67411-09-16 16:48 G 26342680.03 26342680.20 26342680.38 0.0088 0.0004

Neptune 67411-12-13 19:41 G 26342768.14 26342768.32 26342768.49 0.0088 0.0012

Mars 67412-01-31 07:55 G 26342816.74 26342816.83 26342816.93 0.1625 0.1141

Neptune 67412-03-10 22:05 G 26342856.26 26342856.42 26342856.60 0.0088 0.0022

Neptune 67412-06-07 00:43 G 26342944.38 26342944.53 26342944.70 0.0088 0.0031

Neptune 67412-09-03 03:22 G 26343032.50 26343032.64 26343032.80 0.0088 0.0041

Neptune 67412-11-30 06:15 G 26343120.62 26343120.76 26343120.91 0.0088 0.0050

Neptune 67413-02-26 08:39 G 26343208.75 26343208.86 26343209.00 0.0088 0.0060

Neptune 67413-05-25 11:31 G 26343296.88 26343296.98 26343297.10 0.0088 0.0069

Neptune 67413-08-21 14:10 G 26343385.03 26343385.09 26343385.18 0.0088 0.0079

Saturn 67415-01-26 00:15 G 26343907.42 26343907.51 26343907.61 0.0283 0.0229

Saturn 67415-04-24 17:31 G 26343996.07 26343996.23 26343996.39 0.0283 0.0066

Saturn 67415-07-22 11:03 G 26344084.81 26344084.96 26344085.11 0.0283 0.0101

Saturn 67415-10-19 04:48 G 26344173.67 26344173.70 26344173.75 0.0283 0.0272

Jupiter 67416-10-05 17:31 G 26344526.09 26344526.23 26344526.38 0.0484 0.0222

Jupiter 67417-01-03 11:46 G 26344615.95 26344615.99 26344616.03 0.0484 0.0468

Mars 67418-09-02 12:58 G 26345223.00 26345223.04 26345223.07 0.1891 0.1801

Venus 67418-11-03 11:46 G 26345284.93 26345284.99 26345285.04 0.3688 0.3194

Earth 67420-07-12 07:27 G 26345901.72 26345901.81 26345901.90 0.2691 0.1739

Moon 67420-07-12 07:41 G 26345901.74 26345901.82 26345901.91 0.2685 0.1825 *

Mars 67421-06-22 15:51 G 26346247.02 26346247.16 26346247.29 0.1627 0.0362

Jupiter 67422-09-10 20:53 G 26346692.23 26346692.37 26346692.50 0.0545 0.0153

Moon 67423-01-10 22:34 G 26346814.30 26346814.44 26346814.58 0.2634 0.0498

Earth 67423-01-10 22:34 G 26346814.30 26346814.44 26346814.58 0.2641 0.0432 *

Venus 67424-05-19 05:17 G 26347308.61 26347308.72 26347308.83 0.3687 0.0062

Earth 67427-07-06 00:43 G 26348451.45 26348451.53 26348451.62 0.2694 0.1837

Moon 67427-07-06 01:12 G 26348451.46 26348451.55 26348451.63 0.2701 0.1871 *

Jupiter 67428-07-24 19:12 G 26348836.20 26348836.30 26348836.39 0.0484 0.0385

Jupiter 67428-10-22 12:43 G 26348925.90 26348926.03 26348926.16 0.0484 0.0296

Saturn 67429-11-29 13:27 G 26349328.95 26349329.06 26349329.18 0.0276 0.0175

Venus 67429-12-02 22:48 G 26349332.38 26349332.45 26349332.51 0.3686 0.2974

Saturn 67430-02-26 03:36 G 26349417.50 26349417.65 26349417.79 0.0276 0.0034

Saturn 67430-05-25 17:03 G 26349506.08 26349506.21 26349506.35 0.0276 0.0106

Saturn 67430-08-22 06:29 G 26349594.70 26349594.77 26349594.84 0.0276 0.0242

Mars 67430-11-12 23:17 G 26349677.34 26349677.47 26349677.61 0.1629 0.0438

Venus 67431-06-16 10:34 G 26349892.85 26349892.94 26349893.03 0.3683 0.2571

Jupiter 67434-06-29 22:34 G 26351002.33 26351002.44 26351002.54 0.0545 0.0366

Jupiter 67434-09-27 12:58 G 26351091.97 26351092.04 26351092.12 0.0545 0.0463

Moon 67436-01-13 23:03 G 26351565.37 26351565.46 26351565.56 0.2636 0.1962

Earth 67436-01-14 00:00 G 26351565.42 26351565.50 26351565.58 0.2642 0.2150 *

Venus 67436-12-30 10:48 G 26351916.86 26351916.95 26351917.05 0.3684 0.2631

Mars 67439-05-22 04:48 G 26352789.59 26352789.70 26352789.82 0.1897 0.0937

Mars 67440-04-04 06:43 G 26353107.69 26353107.78 26353107.86 0.1632 0.1258

Earth 67440-07-07 20:53 G 26353202.25 26353202.37 26353202.49 0.2693 0.0531

Moon 67440-07-07 21:51 G 26353202.29 26353202.41 26353202.52 0.2694 0.0405 *

Jupiter 67440-08-10 13:27 G 26353235.90 26353236.06 26353236.22 0.0483 0.0119

Earth 67443-01-06 02:53 G 26354114.58 26354114.62 26354114.65 0.2638 0.2516

Moon 67443-01-06 03:51 G 26354114.60 26354114.66 26354114.72 0.2636 0.2370 *

Saturn 67444-06-14 01:41 G 26354639.53 26354639.57 26354639.63 0.0283 0.0265

Saturn 67444-09-10 18:58 G 26354728.14 26354728.29 26354728.44 0.0283 0.0103

Saturn 67444-12-08 12:29 G 26354816.86 26354817.02 26354817.17 0.0283 0.0063

Saturn 67445-03-07 06:00 G 26354905.67 26354905.75 26354905.85 0.0283 0.0232

Jupiter 67446-07-16 15:36 G 26355402.03 26355402.15 26355402.27 0.0545 0.0270

Uranus 67447-02-09 22:19 G 26355610.37 26355610.43 26355610.52 0.0143 0.0128

Uranus 67447-05-09 04:48 G 26355698.59 26355698.70 26355698.82 0.0143 0.0101

Uranus 67447-08-05 11:03 G 26355786.82 26355786.96 26355787.11 0.0142 0.0074

Uranus 67447-11-01 17:17 G 26355875.06 26355875.22 26355875.39 0.0142 0.0047

Uranus 67448-01-28 23:46 G 26355963.32 26355963.49 26355963.66 0.0142 0.0019

Uranus 67448-04-26 06:00 G 26356051.58 26356051.75 26356051.93 0.0142 0.0009

Uranus 67448-07-23 12:29 G 26356139.85 26356140.02 26356140.19 0.0142 0.0036

Mars 67448-10-11 08:39 G 26356219.73 26356219.86 26356219.99 0.1894 0.0396

Uranus 67448-10-19 18:43 G 26356228.14 26356228.28 26356228.45 0.0142 0.0064

Uranus 67449-01-16 01:12 G 26356316.43 26356316.55 26356316.70 0.0142 0.0092

Uranus 67449-04-14 07:41 G 26356404.74 26356404.82 26356404.93 0.0142 0.0120

Mars 67451-08-01 08:10 G 26357243.76 26357243.84 26357243.93 0.1625 0.1257

Jupiter 67452-05-29 14:39 G 26357545.95 26357546.11 26357546.27 0.0483 0.0049

Earth 67453-07-10 16:48 G 26357953.09 26357953.20 26357953.31 0.2692 0.0739

Moon 67453-07-10 17:31 G 26357953.12 26357953.23 26357953.35 0.2690 0.0843 *

Pluto 67455-03-16 08:24 G 26358566.82 26358566.85 26358566.92 0.0065 0.0061

Pluto 67455-06-12 09:22 G 26358654.80 26358654.89 26358654.99 0.0065 0.0050

Pluto 67455-09-08 09:51 G 26358742.81 26358742.91 26358743.04 0.0065 0.0040

Pluto 67455-12-05 10:34 G 26358830.82 26358830.94 26358831.09 0.0065 0.0029

Earth 67456-01-09 03:22 G 26358865.51 26358865.64 26358865.77 0.2639 0.0917

Moon 67456-01-09 04:05 G 26358865.54 26358865.67 26358865.81 0.2634 0.0819 *

Pluto 67456-03-02 11:31 G 26358918.84 26358918.98 26358919.13 0.0065 0.0018

Pluto 67456-05-29 12:15 G 26359006.86 26359007.01 26359007.16 0.0065 0.0007

Pluto 67456-08-25 12:58 G 26359094.89 26359095.04 26359095.19 0.0065 0.0003

Pluto 67456-11-21 13:41 G 26359182.93 26359183.07 26359183.22 0.0065 0.0014

Pluto 67457-02-17 14:10 G 26359270.96 26359271.09 26359271.24 0.0065 0.0025

Pluto 67457-05-16 15:07 G 26359359.01 26359359.13 26359359.25 0.0066 0.0036

Pluto 67457-08-12 15:36 G 26359447.06 26359447.15 26359447.26 0.0066 0.0047

Pluto 67457-11-08 16:19 G 26359535.12 26359535.18 26359535.26 0.0066 0.0058

Mars 67458-03-03 12:58 G 26359649.98 26359650.04 26359650.10 0.1891 0.1662

Jupiter 67458-05-04 18:15 G 26359712.12 26359712.26 26359712.40 0.0545 0.0077

Saturn 67459-04-18 13:55 G 26360061.00 26360061.08 26360061.17 0.0275 0.0227

Saturn 67459-07-16 04:05 G 26360149.52 26360149.67 26360149.81 0.0275 0.0085

Saturn 67459-10-12 17:46 G 26360238.09 26360238.24 26360238.38 0.0276 0.0056

Saturn 67460-01-09 06:58 G 26360326.69 26360326.79 26360326.90 0.0276 0.0193

Mars 67460-12-21 16:05 G 26360674.04 26360674.17 26360674.30 0.1627 0.0489

Jupiter 67464-03-17 15:51 G 26361856.02 26361856.16 26361856.30 0.0483 0.0218

Jupiter 67464-06-15 09:51 G 26361945.88 26361945.91 26361945.95 0.0484 0.0471

Earth 67466-07-13 12:29 G 26362703.94 26362704.02 26362704.10 0.2691 0.1970

Moon 67466-07-13 12:43 G 26362703.95 26362704.03 26362704.11 0.2684 0.1960 *

Moon 67469-01-11 04:05 G 26363616.53 26363616.67 26363616.81 0.2634 0.0664

Earth 67469-01-11 04:34 G 26363616.55 26363616.69 26363616.82 0.2641 0.0750 *

Jupiter 67470-02-20 20:10 G 26364022.21 26364022.34 26364022.48 0.0545 0.0129

Mars 67470-05-13 23:31 G 26364104.35 26364104.48 26364104.62 0.1629 0.0312

Earth 67473-07-06 06:00 G 26365253.65 26365253.75 26365253.84 0.2694 0.1588

Moon 67473-07-06 06:29 G 26365253.67 26365253.77 26365253.86 0.2700 0.1478 *

Saturn 67474-01-28 18:15 G 26365460.13 26365460.26 26365460.39 0.0283 0.0161

Saturn 67474-04-27 11:31 G 26365548.82 26365548.98 26365549.14 0.0283 0.0003

Saturn 67474-07-25 05:17 G 26365637.59 26365637.72 26365637.85 0.0283 0.0171

Venus 67475-06-10 09:36 G 26365957.81 26365957.90 26365957.99 0.3688 0.2010

Jupiter 67476-01-04 17:31 G 26366166.13 26366166.23 26366166.33 0.0484 0.0378

Jupiter 67476-04-03 11:03 G 26366255.83 26366255.96 26366256.09 0.0484 0.0302

Mars 67478-11-20 05:03 G 26367216.60 26367216.71 26367216.82 0.1897 0.1084

Mars 67479-10-04 06:58 G 26367534.69 26367534.79 26367534.89 0.1632 0.1125

Venus 67480-12-24 03:07 G 26367981.53 26367981.63 26367981.74 0.3687 0.1099

Jupiter 67481-12-09 21:07 G 26368332.27 26368332.38 26368332.48 0.0545 0.0359

Moon 67482-01-14 05:03 G 26368367.66 26368367.71 26368367.76 0.2637 0.2465

Earth 67482-01-14 06:00 G 26368367.70 26368367.75 26368367.79 0.2642 0.2474 *

Jupiter 67482-03-09 11:31 G 26368421.92 26368421.98 26368422.05 0.0544 0.0470

Earth 67486-07-09 01:55 G 26370004.47 26370004.58 26370004.70 0.2693 0.0306

Moon 67486-07-09 02:53 G 26370004.50 26370004.62 26370004.74 0.2694 0.0260 *

Venus 67488-01-21 10:19 G 26370565.80 26370565.93 26370566.06 0.3683 0.0771

Jupiter 67488-01-21 12:15 G 26370565.85 26370566.01 26370566.16 0.0484 0.0132 *

Mars 67488-04-11 08:53 G 26370646.74 26370646.87 26370647.00 0.1894 0.0245

Saturn 67488-09-04 16:34 G 26370793.14 26370793.19 26370793.25 0.0276 0.0255

Saturn 67488-12-02 06:43 G 26370881.65 26370881.78 26370881.92 0.0276 0.0112

Earth 67489-01-06 08:24 G 26370916.78 26370916.85 26370916.93 0.2638 0.2221

Moon 67489-01-06 09:36 G 26370916.82 26370916.90 26370916.98 0.2635 0.2177 *

Saturn 67489-02-28 20:39 G 26370970.21 26370970.36 26370970.50 0.0276 0.0030

Saturn 67489-05-28 10:05 G 26371058.81 26371058.92 26371059.04 0.0276 0.0167

Uranus 67490-05-15 23:46 G 26371411.43 26371411.49 26371411.56 0.0136 0.0122

Neptune 67490-08-11 20:53 G 26371499.36 26371499.37 26371499.41 0.0090 0.0089

Uranus 67490-08-12 03:36 G 26371499.56 26371499.65 26371499.75 0.0136 0.0101

Neptune 67490-11-07 22:48 G 26371587.40 26371587.45 26371587.53 0.0089 0.0080

Uranus 67490-11-08 07:41 G 26371587.71 26371587.82 26371587.94 0.0136 0.0081

Mars 67491-01-30 08:24 G 26371670.78 26371670.85 26371670.92 0.1625 0.1380

Neptune 67491-02-04 00:58 G 26371675.45 26371675.54 26371675.63 0.0089 0.0071

Uranus 67491-02-04 11:31 G 26371675.86 26371675.98 26371676.11 0.0136 0.0061

Neptune 67491-05-03 02:39 G 26371763.51 26371763.61 26371763.72 0.0089 0.0063

Uranus 67491-05-03 15:22 G 26371764.01 26371764.14 26371764.29 0.0136 0.0041

Neptune 67491-07-30 04:34 G 26371851.57 26371851.69 26371851.81 0.0089 0.0054

Uranus 67491-07-30 19:27 G 26371852.17 26371852.31 26371852.45 0.0136 0.0020

Neptune 67491-10-26 06:15 G 26371939.64 26371939.76 26371939.89 0.0089 0.0046

Uranus 67491-10-26 23:17 G 26371940.33 26371940.47 26371940.61 0.0136 0.0001

Neptune 67492-01-22 07:55 G 26372027.71 26372027.83 26372027.97 0.0089 0.0037

Uranus 67492-01-23 03:07 G 26372028.49 26372028.63 26372028.77 0.0136 0.0020

Neptune 67492-04-19 09:51 G 26372115.78 26372115.91 26372116.05 0.0089 0.0029

Uranus 67492-04-20 06:43 G 26372116.65 26372116.78 26372116.92 0.0136 0.0040

Neptune 67492-07-16 11:31 G 26372203.85 26372203.98 26372204.13 0.0089 0.0021

Uranus 67492-07-17 10:34 G 26372204.82 26372204.94 26372205.07 0.0136 0.0060

Neptune 67492-10-12 13:27 G 26372291.92 26372292.06 26372292.21 0.0089 0.0012

Uranus 67492-10-13 14:24 G 26372292.99 26372293.10 26372293.22 0.0136 0.0080

Neptune 67493-01-08 15:07 G 26372379.99 26372380.13 26372380.28 0.0089 0.0004

Uranus 67493-01-09 18:00 G 26372381.16 26372381.25 26372381.35 0.0136 0.0099

Neptune 67493-04-06 17:03 G 26372468.06 26372468.21 26372468.35 0.0089 0.0005

Uranus 67493-04-07 21:51 G 26372469.35 26372469.41 26372469.48 0.0136 0.0119

Neptune 67493-07-03 18:43 G 26372556.14 26372556.28 26372556.42 0.0089 0.0013

Neptune 67493-09-29 20:24 G 26372644.21 26372644.35 26372644.49 0.0089 0.0021

Jupiter 67493-12-26 13:41 G 26372731.95 26372732.07 26372732.19 0.0545 0.0264

Neptune 67493-12-26 22:05 G 26372732.29 26372732.42 26372732.56 0.0089 0.0030

Neptune 67494-03-24 23:46 G 26372820.36 26372820.49 26372820.62 0.0089 0.0038

Neptune 67494-06-21 01:27 G 26372908.44 26372908.56 26372908.69 0.0089 0.0046

Neptune 67494-09-17 02:53 G 26372996.52 26372996.62 26372996.75 0.0089 0.0055

Neptune 67494-12-14 04:34 G 26373084.60 26373084.69 26373084.81 0.0089 0.0063

Neptune 67495-03-12 06:15 G 26373172.69 26373172.76 26373172.86 0.0089 0.0071

Neptune 67495-06-08 07:55 G 26373260.78 26373260.83 26373260.91 0.0089 0.0079

Neptune 67495-09-04 09:36 G 26373348.88 26373348.90 26373348.95 0.0089 0.0087

Mars 67497-09-01 13:12 G 26374076.97 26374077.05 26374077.12 0.1891 0.1519

Earth 67499-07-11 21:51 G 26374755.30 26374755.41 26374755.52 0.2692 0.0977

Moon 67499-07-11 22:34 G 26374755.33 26374755.44 26374755.55 0.2689 0.1069 *

Jupiter 67499-11-09 12:58 G 26374875.88 26374876.04 26374876.20 0.0483 0.0044

Mars 67500-06-22 16:19 G 26375101.05 26375101.18 26375101.31 0.1627 0.0611

Earth 67502-01-10 09:07 G 26375667.75 26375667.88 26375668.02 0.2640 0.0616

Moon 67502-01-10 09:51 G 26375667.77 26375667.91 26375668.05 0.2634 0.0555 *

Saturn 67503-06-18 20:10 G 26376192.23 26376192.34 26376192.46 0.0283 0.0193

Saturn 67503-09-15 13:27 G 26376280.90 26376281.06 26376281.22 0.0283 0.0030

Saturn 67503-12-13 06:58 G 26376369.65 26376369.79 26376369.93 0.0283 0.0137

Jupiter 67505-10-15 15:51 G 26377042.02 26377042.16 26377042.30 0.0545 0.0065

Moon 67506-07-05 14:53 G 26377305.09 26377305.12 26377305.14 0.2702 0.2625

Earth 67506-07-05 14:53 G 26377305.10 26377305.12 26377305.13 0.2695 0.2675 *

Mars 67509-11-12 23:46 G 26378531.36 26378531.49 26378531.63 0.1629 0.0186

Jupiter 67511-08-29 14:24 G 26379185.95 26379186.10 26379186.24 0.0483 0.0210

Jupiter 67511-11-27 08:10 G 26379275.83 26379275.84 26379275.86 0.0484 0.0479

Earth 67512-07-14 17:31 G 26379506.17 26379506.23 26379506.30 0.2691 0.2202

Moon 67512-07-14 17:46 G 26379506.18 26379506.24 26379506.30 0.2683 0.2232 *

Moon 67515-01-13 09:51 G 26380418.78 26380418.91 26380419.04 0.2634 0.1048

Earth 67515-01-13 10:19 G 26380418.80 26380418.93 26380419.06 0.2641 0.1064 *

Jupiter 67517-08-03 18:15 G 26381352.13 26381352.26 26381352.40 0.0545 0.0133

Saturn 67518-04-22 07:27 G 26381613.70 26381613.81 26381613.94 0.0276 0.0160

Mars 67518-05-22 05:03 G 26381643.61 26381643.71 26381643.81 0.1897 0.1214

Saturn 67518-07-19 21:22 G 26381702.25 26381702.39 26381702.54 0.0276 0.0020

Saturn 67518-10-16 11:03 G 26381790.83 26381790.96 26381791.09 0.0276 0.0121

Saturn 67519-01-13 00:15 G 26381879.47 26381879.51 26381879.57 0.0276 0.0257

Mars 67519-04-05 07:12 G 26381961.69 26381961.80 26381961.91 0.1632 0.0989

Earth 67519-07-08 11:03 G 26382055.86 26382055.96 26382056.07 0.2694 0.1341

Moon 67519-07-08 11:46 G 26382055.88 26382055.99 26382056.09 0.2698 0.1351 *

Jupiter 67523-06-17 15:36 G 26383496.05 26383496.15 26383496.25 0.0483 0.0376

Jupiter 67523-09-15 08:53 G 26383585.75 26383585.87 26383586.00 0.0484 0.0304

Mars 67527-10-12 09:07 G 26385073.75 26385073.88 26385074.01 0.1894 0.0097

Moon 67528-01-16 10:48 G 26385169.94 26385169.95 26385169.96 0.2639 0.2617

Jupiter 67529-05-22 20:10 G 26385662.23 26385662.34 26385662.45 0.0545 0.0339

Jupiter 67529-08-20 10:48 G 26385751.89 26385751.95 26385752.01 0.0545 0.0490

Mars 67530-08-01 08:39 G 26386097.81 26386097.86 26386097.91 0.1625 0.1504

Uranus 67531-03-03 06:00 G 26386311.66 26386311.75 26386311.84 0.0143 0.0119

Uranus 67531-05-30 12:00 G 26386399.88 26386400.00 26386400.14 0.0143 0.0092

Uranus 67531-08-26 18:15 G 26386488.12 26386488.26 26386488.42 0.0142 0.0066

Uranus 67531-11-23 00:43 G 26386576.36 26386576.53 26386576.69 0.0142 0.0038

Venus 67532-01-16 07:41 G 26386630.71 26386630.82 26386630.93 0.3688 0.0834

Uranus 67532-02-19 06:58 G 26386664.62 26386664.79 26386664.97 0.0142 0.0011

Uranus 67532-05-17 13:27 G 26386752.89 26386753.06 26386753.23 0.0142 0.0017

Earth 67532-07-10 07:12 G 26386806.68 26386806.80 26386806.92 0.2693 0.0046

Moon 67532-07-10 08:10 G 26386806.72 26386806.84 26386806.96 0.2693 0.0141 *

Uranus 67532-08-13 19:55 G 26386841.16 26386841.33 26386841.49 0.0142 0.0044

Saturn 67532-11-04 19:27 G 26386924.24 26386924.31 26386924.39 0.0283 0.0251

Uranus 67532-11-10 02:10 G 26386929.45 26386929.59 26386929.75 0.0142 0.0072

Saturn 67533-02-01 12:29 G 26387012.87 26387013.02 26387013.18 0.0283 0.0090

Uranus 67533-02-06 08:39 G 26387017.75 26387017.86 26387017.99 0.0142 0.0100

Saturn 67533-05-01 06:00 G 26387101.60 26387101.75 26387101.91 0.0283 0.0077

Uranus 67533-05-05 15:22 G 26387106.07 26387106.14 26387106.22 0.0142 0.0128

Saturn 67533-07-28 23:46 G 26387190.42 26387190.49 26387190.57 0.0283 0.0246

Earth 67535-01-08 14:10 G 26387719.00 26387719.09 26387719.19 0.2638 0.1925

Moon 67535-01-08 15:22 G 26387719.04 26387719.14 26387719.24 0.2635 0.1735 *

Jupiter 67535-07-04 10:19 G 26387895.77 26387895.93 26387896.09 0.0484 0.0135

Mars 67537-03-03 13:12 G 26388503.96 26388504.05 26388504.14 0.1891 0.1372

Venus 67537-08-01 01:12 G 26388654.46 26388654.55 26388654.63 0.3687 0.2235

Mars 67539-12-22 16:34 G 26389528.06 26389528.19 26389528.31 0.1627 0.0735

Jupiter 67541-06-08 12:15 G 26390061.89 26390062.01 26390062.13 0.0544 0.0270

Pluto 67543-09-09 00:00 G 26390884.43 26390884.50 26390884.60 0.0079 0.0069

Pluto 67543-12-06 01:55 G 26390972.46 26390972.58 26390972.72 0.0079 0.0048

Pluto 67544-03-03 03:51 G 26391060.51 26391060.66 26391060.83 0.0079 0.0027

Pluto 67544-05-30 06:00 G 26391148.58 26391148.75 26391148.91 0.0079 0.0005

Pluto 67544-08-26 07:41 G 26391236.66 26391236.82 26391236.99 0.0078 0.0016

Venus 67544-08-28 09:51 G 26391238.79 26391238.91 26391239.04 0.3684 0.1074

Pluto 67544-11-22 09:36 G 26391324.75 26391324.90 26391325.05 0.0078 0.0037

Pluto 67545-02-18 11:31 G 26391412.87 26391412.98 26391413.09 0.0078 0.0058

Earth 67545-07-13 02:53 G 26391557.52 26391557.62 26391557.73 0.2691 0.1216

Moon 67545-07-13 03:36 G 26391557.54 26391557.65 26391557.75 0.2687 0.1226 *

Jupiter 67547-04-22 11:31 G 26392205.81 26392205.98 26392206.14 0.0484 0.0035

Saturn 67547-09-09 10:05 G 26392345.82 26392345.92 26392346.03 0.0276 0.0189

Saturn 67547-12-07 00:15 G 26392434.36 26392434.51 26392434.65 0.0276 0.0047

Earth 67548-01-11 15:07 G 26392469.99 26392470.13 26392470.26 0.2640 0.0313

Moon 67548-01-11 15:22 G 26392470.00 26392470.14 26392470.28 0.2634 0.0306 *

Saturn 67548-03-04 13:55 G 26392522.94 26392523.08 26392523.22 0.0276 0.0094

Saturn 67548-06-01 03:22 G 26392611.56 26392611.64 26392611.72 0.0277 0.0231

Mars 67549-05-14 00:15 G 26392958.37 26392958.51 26392958.65 0.1629 0.0069

Earth 67552-07-05 19:55 G 26394107.28 26394107.33 26394107.38 0.2694 0.2418

Moon 67552-07-05 19:55 G 26394107.29 26394107.33 26394107.38 0.2702 0.2468 *

Jupiter 67553-03-27 13:55 G 26394371.94 26394372.08 26394372.22 0.0545 0.0060

Mars 67557-11-20 05:17 G 26396070.63 26396070.72 26396070.81 0.1897 0.1369

Earth 67558-07-15 22:34 G 26396308.39 26396308.44 26396308.49 0.2690 0.2430

Moon 67558-07-15 22:48 G 26396308.40 26396308.45 26396308.49 0.2684 0.2440 *

Mars 67558-10-04 07:27 G 26396388.69 26396388.81 26396388.93 0.1632 0.0866

Jupiter 67559-02-08 12:29 G 26396515.87 26396516.02 26396516.16 0.0483 0.0207

Jupiter 67559-05-09 06:15 G 26396605.76 26396605.76 26396605.78 0.0484 0.0482

Moon 67561-01-13 15:36 G 26397221.03 26397221.15 26397221.28 0.2634 0.1310

Earth 67561-01-13 16:05 G 26397221.05 26397221.17 26397221.29 0.2641 0.1379 *

Saturn 67562-03-24 22:05 G 26397656.40 26397656.42 26397656.46 0.0283 0.0277

Saturn 67562-06-21 15:07 G 26397744.99 26397745.13 26397745.28 0.0283 0.0116

Saturn 67562-09-18 08:24 G 26397833.69 26397833.85 26397834.01 0.0283 0.0049

Saturn 67562-12-16 02:10 G 26397922.49 26397922.59 26397922.70 0.0283 0.0217

Jupiter 67565-01-13 15:51 G 26398682.03 26398682.16 26398682.30 0.0545 0.0147

Earth 67565-07-08 16:19 G 26398858.07 26398858.18 26398858.29 0.2693 0.1097

Moon 67565-07-08 17:03 G 26398858.10 26398858.21 26398858.32 0.2697 0.0959 *

Mars 67567-04-12 09:07 G 26399500.75 26399500.88 26399501.01 0.1894 0.0044

Mars 67570-01-30 08:53 G 26400524.87 26400524.87 26400524.87 0.1625 0.1622

Jupiter 67570-11-27 13:55 G 26400825.98 26400826.08 26400826.18 0.0483 0.0370

Jupiter 67571-02-25 07:27 G 26400915.68 26400915.81 26400915.93 0.0484 0.0309

Neptune 67574-01-14 13:12 G 26401970.02 26401970.05 26401970.11 0.0088 0.0085

Uranus 67574-03-10 03:22 G 26402024.63 26402024.64 26402024.67 0.0135 0.0134

Neptune 67574-04-12 15:51 G 26402058.09 26402058.16 26402058.25 0.0088 0.0076

Uranus 67574-06-06 07:12 G 26402112.73 26402112.80 26402112.89 0.0136 0.0114

Neptune 67574-07-09 18:15 G 26402146.17 26402146.26 26402146.38 0.0088 0.0067

Uranus 67574-09-02 11:17 G 26402200.87 26402200.97 26402201.08 0.0136 0.0093

Neptune 67574-10-05 20:53 G 26402234.25 26402234.37 26402234.51 0.0088 0.0058

Uranus 67574-11-29 15:07 G 26402289.02 26402289.13 26402289.26 0.0136 0.0073

Neptune 67575-01-01 23:31 G 26402322.35 26402322.48 26402322.63 0.0088 0.0049

Uranus 67575-02-25 19:12 G 26402377.17 26402377.30 26402377.44 0.0136 0.0052

Neptune 67575-03-31 01:55 G 26402410.44 26402410.58 26402410.75 0.0088 0.0040

Uranus 67575-05-24 23:17 G 26402465.33 26402465.47 26402465.61 0.0136 0.0032

Neptune 67575-06-27 04:34 G 26402498.54 26402498.69 26402498.86 0.0088 0.0031

Uranus 67575-08-21 03:07 G 26402553.48 26402553.63 26402553.77 0.0136 0.0012

Neptune 67575-09-23 07:27 G 26402586.64 26402586.81 26402586.98 0.0088 0.0021

Uranus 67575-11-17 06:58 G 26402641.64 26402641.79 26402641.93 0.0136 0.0008

Neptune 67575-12-20 10:05 G 26402674.75 26402674.92 26402675.09 0.0088 0.0012

Uranus 67576-02-13 10:48 G 26402729.81 26402729.95 26402730.09 0.0136 0.0028

Neptune 67576-03-17 12:43 G 26402762.85 26402763.03 26402763.20 0.0088 0.0003

Uranus 67576-05-11 14:39 G 26402817.97 26402818.11 26402818.24 0.0136 0.0048

Neptune 67576-06-13 15:22 G 26402850.96 26402851.14 26402851.31 0.0088 0.0007

Uranus 67576-08-07 18:15 G 26402906.14 26402906.26 26402906.39 0.0136 0.0068

Mars 67576-09-01 13:12 G 26402930.96 26402931.05 26402931.15 0.1891 0.1243

Neptune 67576-09-09 17:46 G 26402939.08 26402939.24 26402939.42 0.0088 0.0016

Jupiter 67576-11-01 18:00 G 26402992.15 26402992.25 26402992.36 0.0545 0.0348

Uranus 67576-11-03 21:51 G 26402994.31 26402994.41 26402994.53 0.0136 0.0089

Neptune 67576-12-06 20:24 G 26403027.19 26403027.35 26403027.52 0.0088 0.0026

Saturn 67577-01-26 11:17 G 26403077.89 26403077.97 26403078.05 0.0276 0.0234

Jupiter 67577-01-30 08:53 G 26403081.81 26403081.87 26403081.93 0.0545 0.0484

Uranus 67577-01-31 01:41 G 26403082.49 26403082.57 26403082.66 0.0136 0.0108

Neptune 67577-03-04 23:03 G 26403115.31 26403115.46 26403115.63 0.0088 0.0035

Saturn 67577-04-25 01:27 G 26403166.42 26403166.56 26403166.70 0.0276 0.0091

Uranus 67577-04-29 05:17 G 26403170.68 26403170.72 26403170.78 0.0136 0.0128

Neptune 67577-06-01 01:55 G 26403203.43 26403203.58 26403203.73 0.0088 0.0044

Saturn 67577-07-22 15:07 G 26403254.99 26403255.13 26403255.28 0.0276 0.0049

Neptune 67577-08-28 04:19 G 26403291.55 26403291.68 26403291.83 0.0088 0.0054

Saturn 67577-10-19 04:34 G 26403343.59 26403343.69 26403343.80 0.0276 0.0187

Neptune 67577-11-24 07:12 G 26403379.68 26403379.80 26403379.92 0.0088 0.0063

Neptune 67578-02-20 09:36 G 26403467.82 26403467.90 26403468.01 0.0088 0.0073

Neptune 67578-05-19 12:43 G 26403555.97 26403556.03 26403556.09 0.0088 0.0082

Earth 67578-07-11 12:15 G 26403608.89 26403609.01 26403609.13 0.2692 0.0195

Moon 67578-07-11 13:12 G 26403608.93 26403609.05 26403609.17 0.2693 0.0221 *

Mars 67579-06-22 16:48 G 26403955.08 26403955.20 26403955.32 0.1627 0.0863

Earth 67581-01-08 19:55 G 26404521.22 26404521.33 26404521.44 0.2639 0.1629

Moon 67581-01-08 21:07 G 26404521.27 26404521.38 26404521.49 0.2635 0.1611 *

Jupiter 67582-12-14 08:10 G 26405225.68 26405225.84 26405226.00 0.0484 0.0135

Venus 67583-02-06 12:00 G 26405279.93 26405280.00 26405280.07 0.3689 0.2811

Venus 67588-08-22 05:31 G 26407303.62 26407303.73 26407303.84 0.3687 0.0337

Mars 67588-11-12 00:29 G 26407385.38 26407385.52 26407385.66 0.1629 0.0083

Jupiter 67588-11-18 11:03 G 26407391.85 26407391.96 26407392.08 0.0545 0.0287

Earth 67591-07-14 08:10 G 26408359.74 26408359.84 26408359.93 0.2691 0.1446

Moon 67591-07-14 08:39 G 26408359.76 26408359.86 26408359.95 0.2686 0.1559 *

Saturn 67591-11-08 14:24 G 26408476.97 26408477.10 26408477.22 0.0283 0.0175

Saturn 67592-02-05 07:27 G 26408565.65 26408565.81 26408565.97 0.0283 0.0013

Saturn 67592-05-04 00:58 G 26408654.41 26408654.54 26408654.68 0.0283 0.0156

Moon 67594-01-11 20:53 G 26409272.23 26409272.37 26409272.51 0.2633 0.0078

Earth 67594-01-11 20:53 G 26409272.23 26409272.37 26409272.51 0.2640 0.0034 *

Venus 67594-03-07 23:03 G 26409327.42 26409327.46 26409327.50 0.3687 0.3369

Jupiter 67594-10-02 09:36 G 26409535.74 26409535.90 26409536.06 0.0484 0.0032

Venus 67595-09-19 09:22 G 26409887.78 26409887.89 26409887.99 0.3683 0.2241

Mars 67597-05-21 05:31 G 26410497.65 26410497.73 26410497.81 0.1897 0.1522

Mars 67598-04-04 07:41 G 26410815.70 26410815.82 26410815.95 0.1632 0.0735

Moon 67598-07-07 01:12 G 26410909.48 26410909.55 26410909.63 0.2701 0.2138

Earth 67598-07-07 01:12 G 26410909.48 26410909.55 26410909.62 0.2694 0.2169 *

Jupiter 67600-09-06 12:29 G 26411701.88 26411702.02 26411702.16 0.0544 0.0066

Venus 67601-04-04 09:36 G 26411911.82 26411911.90 26411911.98 0.3684 0.2931

Moon 67604-07-16 03:36 G 26413110.63 26413110.65 26413110.67 0.2684 0.2623

Earth 67604-07-16 03:36 G 26413110.64 26413110.65 26413110.67 0.2690 0.2662 *

Saturn 67606-06-15 13:27 G 26413810.03 26413810.06 26413810.11 0.0276 0.0266

Jupiter 67606-07-21 10:48 G 26413845.80 26413845.95 26413846.10 0.0484 0.0201

Saturn 67606-09-12 03:51 G 26413898.53 26413898.66 26413898.80 0.0276 0.0121

Mars 67606-10-11 09:07 G 26413927.75 26413927.88 26413928.02 0.1894 0.0193

Saturn 67606-12-09 17:46 G 26413987.09 26413987.24 26413987.39 0.0277 0.0021

Moon 67607-01-14 21:22 G 26414023.28 26414023.39 26414023.51 0.2635 0.1622

Earth 67607-01-14 22:05 G 26414023.31 26414023.42 26414023.53 0.2641 0.1700 *

Saturn 67607-03-08 07:12 G 26414075.69 26414075.80 26414075.93 0.0277 0.0160

Mars 67607-08-25 14:53 G 26414246.08 26414246.12 26414246.16 0.1635 0.1565

Earth 67611-07-09 21:22 G 26415660.28 26415660.39 26415660.51 0.2693 0.0848

Moon 67611-07-09 22:19 G 26415660.31 26415660.43 26415660.54 0.2697 0.0819 *

Jupiter 67612-06-25 13:55 G 26416011.95 26416012.08 26416012.22 0.0545 0.0150

Uranus 67614-12-25 07:27 G 26416924.77 26416924.81 26416924.86 0.0143 0.0136

Uranus 67615-03-23 13:27 G 26417012.96 26417013.06 26417013.18 0.0143 0.0110

Uranus 67615-06-19 19:41 G 26417101.19 26417101.32 26417101.47 0.0142 0.0083

Uranus 67615-09-16 02:10 G 26417189.43 26417189.59 26417189.75 0.0142 0.0055

Uranus 67615-12-13 08:24 G 26417277.68 26417277.85 26417278.02 0.0142 0.0028

Mars 67616-03-02 13:27 G 26417357.96 26417358.06 26417358.17 0.1891 0.1089

Uranus 67616-03-10 14:53 G 26417365.94 26417366.12 26417366.29 0.0142 0.0003

Uranus 67616-06-06 21:07 G 26417454.21 26417454.38 26417454.55 0.0142 0.0027

Uranus 67616-09-03 03:36 G 26417542.49 26417542.65 26417542.81 0.0142 0.0054

Uranus 67616-11-30 10:05 G 26417630.78 26417630.92 26417631.06 0.0142 0.0082

Uranus 67617-02-26 16:34 G 26417719.09 26417719.19 26417719.30 0.0142 0.0110

Uranus 67617-05-25 23:17 G 26417807.43 26417807.47 26417807.50 0.0142 0.0138

Jupiter 67618-05-09 11:46 G 26418155.89 26418155.99 26418156.10 0.0483 0.0370

Jupiter 67618-08-07 05:17 G 26418245.60 26418245.72 26418245.85 0.0484 0.0309

Mars 67618-12-21 17:03 G 26418382.10 26418382.21 26418382.32 0.1627 0.0983

Saturn 67621-03-27 17:17 G 26419209.11 26419209.22 26419209.34 0.0283 0.0199

Saturn 67621-06-24 10:19 G 26419297.78 26419297.93 26419298.10 0.0283 0.0037

Saturn 67621-09-21 03:51 G 26419386.52 26419386.66 26419386.81 0.0283 0.0130

Jupiter 67624-04-13 15:36 G 26420322.05 26420322.15 26420322.26 0.0545 0.0363

Earth 67624-07-11 17:17 G 26420411.11 26420411.22 26420411.34 0.2692 0.0441

Moon 67624-07-11 18:15 G 26420411.14 26420411.26 26420411.37 0.2691 0.0592 *

Jupiter 67624-07-12 06:15 G 26420411.70 26420411.76 26420411.83 0.0545 0.0470

Earth 67627-01-10 01:41 G 26421323.45 26421323.57 26421323.69 0.2639 0.1328

Moon 67627-01-10 02:39 G 26421323.48 26421323.61 26421323.73 0.2635 0.1156 *

Mars 67628-05-13 00:43 G 26421812.39 26421812.53 26421812.66 0.1630 0.0205

Jupiter 67630-05-26 06:29 G 26422555.61 26422555.77 26422555.92 0.0483 0.0139

Saturn 67636-01-30 05:17 G 26424630.60 26424630.72 26424630.84 0.0276 0.0162

Saturn 67636-04-27 19:12 G 26424719.16 26424719.30 26424719.45 0.0276 0.0022

Jupiter 67636-04-30 08:53 G 26424721.75 26424721.87 26424721.99 0.0545 0.0277

Saturn 67636-07-25 08:53 G 26424807.74 26424807.87 26424808.00 0.0276 0.0118

Saturn 67636-10-21 22:19 G 26424896.38 26424896.43 26424896.48 0.0276 0.0254

Mars 67636-11-19 05:31 G 26424924.66 26424924.73 26424924.79 0.1897 0.1647

Earth 67637-07-14 13:12 G 26425161.96 26425162.05 26425162.14 0.2691 0.1679

Moon 67637-07-14 13:41 G 26425161.98 26425162.07 26425162.16 0.2685 0.1657 *

Mars 67637-10-03 08:10 G 26425242.71 26425242.84 26425242.97 0.1632 0.0599

Venus 67639-09-13 09:51 G 26425952.81 26425952.91 26425953.01 0.3688 0.1621

Moon 67640-01-13 02:39 G 26426074.47 26426074.61 26426074.75 0.2633 0.0229

Earth 67640-01-13 02:39 G 26426074.47 26426074.61 26426074.75 0.2640 0.0312 *

Jupiter 67642-03-14 07:27 G 26426865.65 26426865.81 26426865.97 0.0483 0.0034

Earth 67644-07-07 06:15 G 26427711.68 26427711.76 26427711.85 0.2694 0.1919

Moon 67644-07-07 06:43 G 26427711.70 26427711.78 26427711.86 0.2700 0.1873 *

Venus 67645-03-29 03:36 G 26427976.55 26427976.65 26427976.75 0.3687 0.1484

Mars 67646-04-11 09:36 G 26428354.77 26428354.90 26428355.03 0.1894 0.0343

Mars 67647-02-23 15:07 G 26428673.07 26428673.13 26428673.20 0.1634 0.1433

Jupiter 67648-02-17 11:17 G 26429031.83 26429031.97 26429032.11 0.0545 0.0078

Saturn 67650-08-14 16:34 G 26429941.13 26429941.19 26429941.26 0.0283 0.0256

Saturn 67650-11-11 09:36 G 26430029.75 26430029.90 26430030.05 0.0283 0.0095

Saturn 67651-02-08 02:53 G 26430118.47 26430118.62 26430118.78 0.0283 0.0070

Saturn 67651-05-07 20:39 G 26430207.28 26430207.36 26430207.45 0.0283 0.0238

Venus 67652-04-25 08:53 G 26430560.74 26430560.87 26430561.00 0.3683 0.0454

Moon 67653-01-15 02:53 G 26430825.53 26430825.62 26430825.72 0.2637 0.1971

Earth 67653-01-15 03:51 G 26430825.57 26430825.66 26430825.75 0.2641 0.2013 *

Jupiter 67653-12-31 08:53 G 26431175.72 26431175.87 26431176.02 0.0484 0.0199

Neptune 67655-05-09 19:55 G 26431670.29 26431670.33 26431670.37 0.0090 0.0086

Neptune 67655-08-05 21:36 G 26431758.34 26431758.40 26431758.48 0.0090 0.0077

Mars 67655-09-01 13:41 G 26431784.95 26431785.07 26431785.18 0.1890 0.0954

Neptune 67655-11-01 23:31 G 26431846.39 26431846.48 26431846.58 0.0090 0.0069

Neptune 67656-01-29 01:12 G 26431934.45 26431934.55 26431934.67 0.0090 0.0061

Neptune 67656-04-26 03:07 G 26432022.52 26432022.63 26432022.76 0.0089 0.0052

Neptune 67656-07-23 04:48 G 26432110.58 26432110.70 26432110.84 0.0089 0.0044

Neptune 67656-10-19 06:58 G 26432198.65 26432198.79 26432198.92 0.0089 0.0035

Neptune 67657-01-15 08:39 G 26432286.72 26432286.86 26432287.00 0.0089 0.0026

Neptune 67657-04-13 10:19 G 26432374.79 26432374.93 26432375.08 0.0089 0.0018

Earth 67657-07-10 02:39 G 26432462.49 26432462.61 26432462.72 0.2693 0.0615

Moon 67657-07-10 03:22 G 26432462.52 26432462.64 26432462.76 0.2697 0.0479 *

Neptune 67657-07-10 12:15 G 26432462.86 26432463.01 26432463.15 0.0089 0.0010

Neptune 67657-10-06 13:55 G 26432550.94 26432551.08 26432551.23 0.0089 0.0002

Neptune 67658-01-02 15:36 G 26432639.01 26432639.15 26432639.30 0.0089 0.0007

Uranus 67658-03-30 11:03 G 26432725.92 26432725.96 26432726.02 0.0135 0.0125

Neptune 67658-03-31 17:17 G 26432727.08 26432727.22 26432727.37 0.0089 0.0016

Mars 67658-06-21 17:17 G 26432809.12 26432809.22 26432809.32 0.1627 0.1104

Uranus 67658-06-26 15:07 G 26432814.04 26432814.13 26432814.23 0.0136 0.0105

Neptune 67658-06-27 19:12 G 26432815.16 26432815.30 26432815.44 0.0089 0.0023

Uranus 67658-09-22 18:58 G 26432902.19 26432902.29 26432902.41 0.0136 0.0085

Neptune 67658-09-23 20:53 G 26432903.24 26432903.37 26432903.50 0.0089 0.0032

Uranus 67658-12-19 23:03 G 26432990.33 26432990.46 26432990.59 0.0136 0.0064

Neptune 67658-12-20 22:34 G 26432991.31 26432991.44 26432991.57 0.0089 0.0040

Uranus 67659-03-18 02:53 G 26433078.49 26433078.62 26433078.76 0.0136 0.0044

Neptune 67659-03-19 00:00 G 26433079.39 26433079.50 26433079.63 0.0089 0.0049

Uranus 67659-06-14 06:58 G 26433166.65 26433166.79 26433166.93 0.0136 0.0024

Neptune 67659-06-15 01:41 G 26433167.47 26433167.57 26433167.69 0.0089 0.0057

Uranus 67659-09-10 10:48 G 26433254.80 26433254.95 26433255.09 0.0136 0.0004

Neptune 67659-09-11 03:22 G 26433255.56 26433255.64 26433255.75 0.0089 0.0065

Jupiter 67659-12-06 12:29 G 26433341.89 26433342.02 26433342.16 0.0544 0.0144

Uranus 67659-12-07 14:39 G 26433342.97 26433343.11 26433343.25 0.0136 0.0017

Neptune 67659-12-08 05:03 G 26433343.64 26433343.71 26433343.81 0.0089 0.0073

Earth 67660-01-08 06:58 G 26433374.78 26433374.79 26433374.81 0.2638 0.2607

Moon 67660-01-08 08:10 G 26433374.79 26433374.84 26433374.90 0.2636 0.2430 *

Uranus 67660-03-04 18:29 G 26433431.13 26433431.27 26433431.41 0.0136 0.0037

Neptune 67660-03-05 06:43 G 26433431.73 26433431.78 26433431.86 0.0089 0.0081

Uranus 67660-05-31 22:05 G 26433519.30 26433519.42 26433519.56 0.0136 0.0057

Neptune 67660-06-01 08:24 G 26433519.85 26433519.85 26433519.88 0.0089 0.0089

Uranus 67660-08-28 01:55 G 26433607.47 26433607.58 26433607.70 0.0136 0.0076

Uranus 67660-11-24 05:31 G 26433695.64 26433695.73 26433695.84 0.0136 0.0097

Uranus 67661-02-20 09:36 G 26433783.83 26433783.90 26433783.97 0.0136 0.0116

Uranus 67661-05-19 12:58 G 26433872.04 26433872.04 26433872.07 0.0136 0.0136

Saturn 67665-06-18 07:27 G 26435362.71 26435362.81 26435362.92 0.0276 0.0196

Saturn 67665-09-14 21:36 G 26435451.25 26435451.40 26435451.54 0.0277 0.0053

Jupiter 67665-10-19 10:05 G 26435485.82 26435485.92 26435486.03 0.0484 0.0366

Saturn 67665-12-12 11:17 G 26435539.83 26435539.97 26435540.11 0.0277 0.0087

Jupiter 67666-01-17 03:36 G 26435575.52 26435575.65 26435575.77 0.0484 0.0314

Saturn 67666-03-11 00:43 G 26435628.45 26435628.53 26435628.62 0.0277 0.0225

Mars 67667-11-12 00:58 G 26436239.40 26436239.54 26436239.68 0.1629 0.0329

Earth 67670-07-12 22:34 G 26437213.32 26437213.44 26437213.55 0.2692 0.0675

Moon 67670-07-12 23:17 G 26437213.35 26437213.47 26437213.58 0.2689 0.0692 *

Jupiter 67671-09-24 13:55 G 26437651.97 26437652.08 26437652.18 0.0544 0.0362

Jupiter 67671-12-23 04:34 G 26437741.62 26437741.69 26437741.76 0.0544 0.0467

Earth 67673-01-10 07:27 G 26438125.68 26438125.81 26438125.94 0.2639 0.1028

Moon 67673-01-10 08:10 G 26438125.71 26438125.84 26438125.97 0.2634 0.1041 *

Mars 67676-05-20 05:46 G 26439351.70 26439351.74 26439351.78 0.1897 0.1809

Mars 67677-04-03 08:24 G 26439669.71 26439669.85 26439669.98 0.1632 0.0478

Jupiter 67677-11-05 04:19 G 26439885.52 26439885.68 26439885.84 0.0484 0.0138

Saturn 67680-01-01 19:41 G 26440673.30 26440673.32 26440673.35 0.0283 0.0278

Saturn 67680-03-30 12:43 G 26440761.88 26440762.03 26440762.17 0.0283 0.0118

Saturn 67680-06-27 06:00 G 26440850.59 26440850.75 26440850.91 0.0283 0.0046

Saturn 67680-09-23 23:31 G 26440939.38 26440939.48 26440939.59 0.0283 0.0214

Earth 67683-07-15 18:15 G 26441964.18 26441964.26 26441964.34 0.2691 0.1910

Moon 67683-07-15 18:43 G 26441964.20 26441964.28 26441964.35 0.2685 0.2018 *

Jupiter 67683-10-11 06:29 G 26442051.65 26442051.77 26442051.89 0.0545 0.0262

Mars 67685-10-10 09:22 G 26442781.76 26442781.89 26442782.02 0.1894 0.0466

Moon 67686-01-13 08:24 G 26442876.71 26442876.85 26442876.98 0.2633 0.0699

Earth 67686-01-13 08:24 G 26442876.71 26442876.85 26442876.99 0.2640 0.0621 *

Mars 67686-08-24 15:22 G 26443100.06 26443100.14 26443100.23 0.1635 0.1300

Jupiter 67689-08-24 05:31 G 26444195.57 26444195.73 26444195.90 0.0483 0.0031

Earth 67690-07-08 11:31 G 26444513.88 26444513.98 26444514.07 0.2694 0.1670

Moon 67690-07-08 12:00 G 26444513.91 26444514.00 26444514.09 0.2700 0.1650 *

Venus 67690-10-04 14:10 G 26444602.07 26444602.09 26444602.11 0.3689 0.3626

Saturn 67694-11-05 09:22 G 26446094.81 26446094.89 26446094.97 0.0276 0.0233

Saturn 67695-02-01 23:31 G 26446183.34 26446183.48 26446183.62 0.0276 0.0091

Mars 67695-03-02 13:41 G 26446211.95 26446212.07 26446212.19 0.1891 0.0811

Saturn 67695-05-01 13:12 G 26446271.91 26446272.05 26446272.20 0.0276 0.0050

Saturn 67695-07-29 02:53 G 26446360.51 26446360.62 26446360.72 0.0276 0.0187

Jupiter 67695-07-30 08:53 G 26446361.73 26446361.87 26446362.01 0.0545 0.0066

Venus 67696-04-19 07:55 G 26446625.72 26446625.83 26446625.94 0.3688 0.0472

Mars 67697-12-20 17:31 G 26447236.14 26447236.23 26447236.32 0.1627 0.1233

Uranus 67699-01-14 14:24 G 26447626.04 26447626.10 26447626.19 0.0143 0.0129

Moon 67699-01-16 08:39 G 26447627.78 26447627.86 26447627.94 0.2638 0.2150

Earth 67699-01-16 09:51 G 26447627.84 26447627.91 26447627.97 0.2641 0.2338 *

Uranus 67699-04-12 20:39 G 26447714.25 26447714.36 26447714.49 0.0143 0.0102

Uranus 67699-07-10 03:07 G 26447802.49 26447802.63 26447802.77 0.0142 0.0075

Uranus 67699-10-06 09:22 G 26447890.73 26447890.89 26447891.05 0.0142 0.0048

Uranus 67700-01-02 15:36 G 26447978.98 26447979.15 26447979.32 0.0142 0.0020

Uranus 67700-03-31 22:05 G 26448067.25 26448067.42 26448067.59 0.0142 0.0007

Uranus 67700-06-28 04:19 G 26448155.52 26448155.68 26448155.85 0.0142 0.0035

Uranus 67700-09-24 10:48 G 26448243.80 26448243.95 26448244.11 0.0142 0.0062

Uranus 67700-12-21 17:17 G 26448332.09 26448332.22 26448332.36 0.0142 0.0090

Uranus 67701-03-19 23:46 G 26448420.40 26448420.49 26448420.59 0.0142 0.0118

Jupiter 67701-06-13 06:43 G 26448505.63 26448505.78 26448505.93 0.0483 0.0200

Venus 67701-11-04 01:27 G 26448649.48 26448649.56 26448649.63 0.3687 0.2619

Pluto 67703-01-15 16:05 G 26449087.17 26449087.17 26449087.21 0.0065 0.0064

Pluto 67703-04-13 17:03 G 26449175.13 26449175.21 26449175.30 0.0065 0.0053

Venus 67703-05-18 08:39 G 26449209.85 26449209.86 26449209.86 0.3682 0.3679

Pluto 67703-07-10 17:31 G 26449263.14 26449263.23 26449263.36 0.0065 0.0043

Earth 67703-07-12 07:41 G 26449264.70 26449264.82 26449264.94 0.2693 0.0364

Moon 67703-07-12 08:24 G 26449264.73 26449264.85 26449264.97 0.2695 0.0301 *

Pluto 67703-10-06 18:29 G 26449351.15 26449351.27 26449351.41 0.0065 0.0032

Pluto 67704-01-02 19:12 G 26449439.16 26449439.30 26449439.45 0.0065 0.0021

Pluto 67704-03-30 19:55 G 26449527.19 26449527.33 26449527.48 0.0065 0.0011

Pluto 67704-06-26 20:39 G 26449615.21 26449615.36 26449615.51 0.0065 0.0002

Pluto 67704-09-22 21:22 G 26449703.25 26449703.39 26449703.54 0.0065 0.0011

Pluto 67704-12-19 22:05 G 26449791.28 26449791.42 26449791.56 0.0065 0.0022

Pluto 67705-03-17 22:48 G 26449879.32 26449879.45 26449879.58 0.0066 0.0033

Pluto 67705-06-13 23:17 G 26449967.37 26449967.47 26449967.59 0.0066 0.0044

Pluto 67705-09-10 00:00 G 26450055.43 26450055.50 26450055.59 0.0066 0.0055

Pluto 67705-12-07 00:43 G 26450143.53 26450143.53 26450143.55 0.0066 0.0066

Earth 67706-01-09 12:43 G 26450176.97 26450177.03 26450177.10 0.2638 0.2309

Moon 67706-01-09 13:55 G 26450177.01 26450177.08 26450177.15 0.2636 0.2233 *

Mars 67707-05-14 01:12 G 26450666.42 26450666.55 26450666.68 0.1629 0.0453

Jupiter 67707-05-19 11:03 G 26450671.83 26450671.96 26450672.10 0.0545 0.0136

Venus 67708-12-01 08:39 G 26451233.73 26451233.86 26451233.98 0.3683 0.1361

Saturn 67709-08-18 11:46 G 26451493.87 26451493.99 26451494.12 0.0283 0.0177

Saturn 67709-11-15 05:03 G 26451582.55 26451582.71 26451582.87 0.0283 0.0014

Saturn 67710-02-11 22:19 G 26451671.30 26451671.43 26451671.57 0.0283 0.0153

Jupiter 67713-04-01 08:10 G 26452815.74 26452815.84 26452815.95 0.0483 0.0363

Jupiter 67713-06-30 01:41 G 26452905.44 26452905.57 26452905.69 0.0484 0.0316

Earth 67716-07-14 03:36 G 26454015.54 26454015.65 26454015.76 0.2692 0.0908

Moon 67716-07-14 04:19 G 26454015.57 26454015.68 26454015.79 0.2688 0.1034 *

Mars 67716-10-03 08:39 G 26454096.72 26454096.86 26454096.99 0.1632 0.0348

Earth 67719-01-12 13:27 G 26454927.92 26454928.06 26454928.19 0.2639 0.0720

Moon 67719-01-12 13:55 G 26454927.94 26454928.08 26454928.21 0.2633 0.0611 *

Jupiter 67719-03-07 12:29 G 26454981.91 26454982.02 26454982.12 0.0544 0.0356

Jupiter 67719-06-05 03:07 G 26455071.57 26455071.63 26455071.70 0.0544 0.0474

Saturn 67724-03-25 11:03 G 26456826.94 26456826.96 26456826.99 0.0276 0.0271

Saturn 67724-06-22 01:12 G 26456915.42 26456915.55 26456915.69 0.0276 0.0127

Saturn 67724-09-18 15:22 G 26457003.99 26457004.14 26457004.28 0.0277 0.0016

Saturn 67724-12-16 04:48 G 26457092.58 26457092.70 26457092.83 0.0277 0.0154

Mars 67725-04-11 09:36 G 26457208.78 26457208.90 26457209.03 0.1894 0.0619

Jupiter 67725-04-18 02:24 G 26457215.45 26457215.60 26457215.76 0.0484 0.0142

Mars 67726-02-23 15:51 G 26457527.06 26457527.16 26457527.25 0.1635 0.1169

Earth 67729-07-16 23:17 G 26458766.40 26458766.47 26458766.54 0.2691 0.2141

Moon 67729-07-16 23:31 G 26458766.41 26458766.48 26458766.55 0.2685 0.2095 *

Jupiter 67731-03-24 04:48 G 26459381.58 26459381.70 26459381.83 0.0544 0.0265

Moon 67732-01-15 13:55 G 26459678.95 26459679.08 26459679.22 0.2634 0.0824

Earth 67732-01-15 14:10 G 26459678.96 26459679.09 26459679.23 0.2640 0.0939 *

Mars 67734-09-01 13:55 G 26460638.95 26460639.08 26460639.20 0.1890 0.0671

Earth 67736-07-09 16:34 G 26461316.09 26461316.19 26461316.30 0.2694 0.1423

Moon 67736-07-09 17:17 G 26461316.12 26461316.22 26461316.32 0.2700 0.1307 *

Jupiter 67737-02-04 03:22 G 26461525.48 26461525.64 26461525.81 0.0484 0.0033

Mars 67737-06-21 17:46 G 26461663.16 26461663.24 26461663.31 0.1627 0.1350

Neptune 67738-10-12 11:46 G 26462140.94 26462140.99 26462141.06 0.0088 0.0081

Saturn 67739-01-05 14:53 G 26462226.01 26462226.12 26462226.24 0.0283 0.0200

Neptune 67739-01-08 14:10 G 26462229.01 26462229.09 26462229.20 0.0088 0.0072

Saturn 67739-04-04 08:10 G 26462314.68 26462314.84 26462314.99 0.0283 0.0038

Neptune 67739-04-06 16:48 G 26462317.09 26462317.20 26462317.33 0.0088 0.0063

Saturn 67739-07-02 01:27 G 26462403.42 26462403.56 26462403.71 0.0283 0.0129

Neptune 67739-07-03 19:12 G 26462405.18 26462405.30 26462405.45 0.0088 0.0054

Neptune 67739-09-29 21:51 G 26462493.27 26462493.41 26462493.57 0.0088 0.0045

Neptune 67739-12-27 00:29 G 26462581.37 26462581.52 26462581.68 0.0088 0.0036

Neptune 67740-03-24 03:07 G 26462669.47 26462669.63 26462669.80 0.0088 0.0026

Neptune 67740-06-20 05:46 G 26462757.58 26462757.74 26462757.91 0.0088 0.0017

Neptune 67740-09-16 08:24 G 26462845.68 26462845.85 26462846.02 0.0088 0.0008

Neptune 67740-12-13 11:03 G 26462933.79 26462933.96 26462934.13 0.0088 0.0002

Neptune 67741-03-11 13:41 G 26463021.90 26463022.07 26463022.24 0.0088 0.0011

Neptune 67741-06-07 16:19 G 26463110.01 26463110.18 26463110.35 0.0088 0.0020

Neptune 67741-09-03 18:43 G 26463198.13 26463198.28 26463198.45 0.0088 0.0030

Neptune 67741-11-30 21:22 G 26463286.25 26463286.39 26463286.56 0.0088 0.0039

Neptune 67742-02-27 00:00 G 26463374.37 26463374.50 26463374.66 0.0088 0.0049

Uranus 67742-04-20 18:58 G 26463427.21 26463427.29 26463427.36 0.0136 0.0117

Neptune 67742-05-26 02:39 G 26463462.49 26463462.61 26463462.75 0.0088 0.0058

Uranus 67742-07-17 22:48 G 26463515.35 26463515.45 26463515.55 0.0136 0.0097

Neptune 67742-08-22 05:17 G 26463550.63 26463550.72 26463550.85 0.0088 0.0068

Uranus 67742-10-14 02:39 G 26463603.50 26463603.61 26463603.74 0.0136 0.0076

Neptune 67742-11-18 08:10 G 26463638.77 26463638.84 26463638.93 0.0088 0.0077

Jupiter 67743-01-10 06:29 G 26463691.63 26463691.77 26463691.91 0.0545 0.0052

Uranus 67743-01-10 06:43 G 26463691.65 26463691.78 26463691.91 0.0136 0.0056 *

Neptune 67743-02-14 10:34 G 26463726.93 26463726.94 26463726.99 0.0088 0.0087

Uranus 67743-04-08 10:34 G 26463779.80 26463779.94 26463780.08 0.0136 0.0036

Uranus 67743-07-05 14:24 G 26463867.96 26463868.10 26463868.25 0.0136 0.0016

Uranus 67743-10-01 18:29 G 26463956.12 26463956.27 26463956.41 0.0136 0.0006

Uranus 67743-12-28 22:05 G 26464044.28 26464044.42 26464044.57 0.0136 0.0025

Uranus 67744-03-26 01:55 G 26464132.45 26464132.58 26464132.72 0.0136 0.0045

Uranus 67744-06-22 05:46 G 26464220.62 26464220.74 26464220.87 0.0136 0.0065

Uranus 67744-09-18 09:36 G 26464308.79 26464308.90 26464309.01 0.0136 0.0084

Uranus 67744-12-15 13:12 G 26464396.97 26464397.05 26464397.15 0.0136 0.0104

Moon 67745-01-17 14:24 G 26464430.09 26464430.10 26464430.11 0.2638 0.2619

Uranus 67745-03-13 17:03 G 26464485.16 26464485.21 26464485.27 0.0136 0.0123

Mars 67746-11-12 01:27 G 26465093.43 26465093.56 26465093.69 0.1629 0.0579

Venus 67747-05-12 12:00 G 26465274.92 26465275.00 26465275.09 0.3689 0.2444

Jupiter 67748-11-23 04:48 G 26465835.56 26465835.70 26465835.85 0.0483 0.0196

Earth 67749-07-12 12:43 G 26466066.91 26466067.03 26466067.15 0.2693 0.0124

Moon 67749-07-12 13:41 G 26466066.95 26466067.07 26466067.19 0.2693 0.0090 *

Earth 67752-01-10 18:29 G 26466979.18 26466979.27 26466979.36 0.2638 0.2018

Moon 67752-01-10 19:27 G 26466979.22 26466979.31 26466979.41 0.2635 0.1908 *

Venus 67752-11-25 05:46 G 26467298.63 26467298.74 26467298.85 0.3688 0.0707

Saturn 67753-11-09 03:22 G 26467647.52 26467647.64 26467647.76 0.0276 0.0162

Saturn 67754-02-05 17:31 G 26467736.08 26467736.23 26467736.37 0.0276 0.0022

Saturn 67754-05-05 06:58 G 26467824.66 26467824.79 26467824.93 0.0276 0.0119

Saturn 67754-08-01 20:39 G 26467913.30 26467913.36 26467913.41 0.0276 0.0254

Jupiter 67754-10-29 08:39 G 26468001.73 26468001.86 26468002.00 0.0545 0.0150

Mars 67756-04-03 08:53 G 26468523.73 26468523.87 26468524.01 0.1632 0.0214

Venus 67759-12-23 08:10 G 26469882.73 26469882.84 26469882.95 0.3682 0.1916

Jupiter 67760-09-11 06:15 G 26470145.65 26470145.76 26470145.86 0.0483 0.0364

Jupiter 67760-12-09 23:17 G 26470235.35 26470235.47 26470235.60 0.0484 0.0315

Earth 67762-07-15 08:39 G 26470817.75 26470817.86 26470817.97 0.2692 0.1143

Moon 67762-07-15 09:22 G 26470817.78 26470817.89 26470818.00 0.2688 0.1182 *

Mars 67764-10-10 09:51 G 26471635.79 26471635.91 26471636.04 0.1894 0.0768

Earth 67765-01-12 19:12 G 26471730.16 26471730.30 26471730.44 0.2639 0.0413

Moon 67765-01-12 19:41 G 26471730.18 26471730.32 26471730.45 0.2633 0.0430 *

Venus 67765-07-08 08:10 G 26471906.78 26471906.84 26471906.91 0.3684 0.3208

Mars 67765-08-24 16:05 G 26471954.06 26471954.17 26471954.28 0.1635 0.1039

Jupiter 67766-08-17 10:48 G 26472311.84 26472311.95 26472312.06 0.0545 0.0352

Jupiter 67766-11-15 01:41 G 26472401.51 26472401.57 26472401.63 0.0545 0.0481

Saturn 67768-05-24 14:10 G 26472958.03 26472958.09 26472958.16 0.0283 0.0257

Saturn 67768-08-21 07:12 G 26473046.65 26473046.80 26473046.95 0.0283 0.0097

Saturn 67768-11-18 00:29 G 26473135.36 26473135.52 26473135.67 0.0283 0.0068

Saturn 67769-02-14 18:00 G 26473224.16 26473224.25 26473224.34 0.0283 0.0235

Earth 67769-07-08 01:27 G 26473367.52 26473367.56 26473367.60 0.2695 0.2504

Moon 67769-07-08 01:41 G 26473367.52 26473367.57 26473367.62 0.2701 0.2429 *

Jupiter 67772-09-28 00:29 G 26474545.37 26474545.52 26474545.68 0.0484 0.0146

Mars 67774-03-02 13:55 G 26475065.96 26475066.08 26475066.21 0.1890 0.0526

Earth 67775-07-18 04:19 G 26475568.63 26475568.68 26475568.74 0.2691 0.2371

Moon 67775-07-18 04:19 G 26475568.64 26475568.68 26475568.73 0.2684 0.2417 *

Mars 67776-12-20 18:00 G 26476090.19 26476090.25 26476090.31 0.1627 0.1471

Moon 67778-01-15 19:27 G 26476481.19 26476481.31 26476481.44 0.2635 0.1269

Earth 67778-01-15 20:10 G 26476481.22 26476481.34 26476481.46 0.2640 0.1255 *

Jupiter 67778-09-03 03:22 G 26476711.52 26476711.64 26476711.76 0.0544 0.0272

Earth 67782-07-10 21:51 G 26478118.30 26478118.41 26478118.52 0.2694 0.1170

Moon 67782-07-10 22:34 G 26478118.33 26478118.44 26478118.54 0.2699 0.1170 *

Uranus 67783-02-04 22:19 G 26478327.34 26478327.43 26478327.53 0.0143 0.0119

Saturn 67783-03-29 04:48 G 26478379.60 26478379.70 26478379.80 0.0276 0.0203

Uranus 67783-05-04 04:34 G 26478415.56 26478415.69 26478415.82 0.0143 0.0092

Saturn 67783-06-25 18:58 G 26478468.15 26478468.29 26478468.44 0.0276 0.0060

Mars 67783-07-23 18:29 G 26478496.23 26478496.27 26478496.31 0.1887 0.1765

Uranus 67783-07-31 10:34 G 26478503.80 26478503.94 26478504.10 0.0142 0.0065

Saturn 67783-09-22 08:53 G 26478556.73 26478556.87 26478557.01 0.0277 0.0081

Uranus 67783-10-27 16:48 G 26478592.04 26478592.20 26478592.37 0.0142 0.0039

Saturn 67783-12-19 22:19 G 26478645.34 26478645.43 26478645.52 0.0277 0.0218

Uranus 67784-01-23 23:17 G 26478680.30 26478680.47 26478680.64 0.0142 0.0011

Uranus 67784-04-21 05:31 G 26478768.57 26478768.73 26478768.91 0.0142 0.0017

Jupiter 67784-07-17 01:41 G 26478855.41 26478855.57 26478855.73 0.0484 0.0028

Uranus 67784-07-18 12:00 G 26478856.84 26478857.00 26478857.17 0.0142 0.0044

Uranus 67784-10-14 18:15 G 26478945.12 26478945.26 26478945.42 0.0142 0.0073

Uranus 67785-01-11 00:43 G 26479033.42 26479033.53 26479033.66 0.0142 0.0100

Uranus 67785-04-09 07:12 G 26479121.74 26479121.80 26479121.89 0.0142 0.0128

Mars 67786-05-13 01:41 G 26479520.44 26479520.57 26479520.69 0.1629 0.0702

Jupiter 67790-06-22 05:03 G 26481021.57 26481021.71 26481021.85 0.0544 0.0060

Pluto 67791-07-10 06:43 G 26481404.74 26481404.78 26481404.82 0.0079 0.0076

Pluto 67791-10-06 08:39 G 26481492.74 26481492.86 26481492.98 0.0079 0.0055

Pluto 67792-01-02 10:19 G 26481580.79 26481580.93 26481581.09 0.0079 0.0034

Pluto 67792-03-30 12:29 G 26481668.85 26481669.02 26481669.18 0.0079 0.0013

Pluto 67792-06-26 14:10 G 26481756.93 26481757.09 26481757.26 0.0079 0.0008

Pluto 67792-09-22 15:51 G 26481845.01 26481845.16 26481845.33 0.0078 0.0029

Pluto 67792-12-19 17:31 G 26481933.12 26481933.23 26481933.38 0.0078 0.0050

Pluto 67793-03-17 19:41 G 26482021.26 26482021.32 26482021.39 0.0078 0.0071

Earth 67795-07-13 18:00 G 26482869.13 26482869.25 26482869.36 0.2693 0.0153

Moon 67795-07-13 18:43 G 26482869.16 26482869.28 26482869.40 0.2692 0.0261 *

Mars 67795-10-03 09:07 G 26482950.74 26482950.88 26482951.02 0.1632 0.0093

Jupiter 67796-05-05 02:53 G 26483165.47 26483165.62 26483165.77 0.0483 0.0196

Saturn 67797-10-11 17:03 G 26483690.21 26483690.21 26483690.22 0.0283 0.0282

Saturn 67798-01-08 09:51 G 26483778.77 26483778.91 26483779.06 0.0283 0.0123

Earth 67798-01-11 00:15 G 26483781.41 26483781.51 26483781.62 0.2638 0.1719

Moon 67798-01-11 01:12 G 26483781.44 26483781.55 26483781.66 0.2634 0.1600 *

Saturn 67798-04-07 03:07 G 26483867.47 26483867.63 26483867.79 0.0283 0.0042

Saturn 67798-07-04 20:39 G 26483956.26 26483956.36 26483956.48 0.0283 0.0209

Jupiter 67802-04-11 06:29 G 26485331.63 26485331.77 26485331.90 0.0545 0.0162

Venus 67803-12-18 10:05 G 26485947.82 26485947.92 26485948.03 0.3688 0.1254

Mars 67804-04-11 09:51 G 26486062.80 26486062.91 26486063.03 0.1894 0.0899

Mars 67805-02-23 16:19 G 26486381.07 26486381.18 26486381.30 0.1635 0.0903

Jupiter 67808-02-23 04:34 G 26487475.58 26487475.69 26487475.79 0.0483 0.0357

Jupiter 67808-05-22 21:36 G 26487565.28 26487565.40 26487565.53 0.0483 0.0320

Earth 67808-07-16 13:41 G 26487619.97 26487620.07 26487620.17 0.2692 0.1381

Moon 67808-07-16 14:24 G 26487620.00 26487620.10 26487620.20 0.2687 0.1458 *

Venus 67809-07-03 03:51 G 26487971.56 26487971.66 26487971.75 0.3687 0.1865

Earth 67811-01-15 00:58 G 26488532.40 26488532.54 26488532.68 0.2639 0.0110

Moon 67811-01-15 01:12 G 26488532.41 26488532.55 26488532.69 0.2633 0.0054 *

Saturn 67812-08-16 07:12 G 26489111.73 26489111.80 26489111.88 0.0276 0.0235

Saturn 67812-11-12 21:22 G 26489200.25 26489200.39 26489200.53 0.0276 0.0093

Saturn 67813-02-09 11:17 G 26489288.82 26489288.97 26489289.11 0.0276 0.0048

Saturn 67813-05-09 00:43 G 26489377.43 26489377.53 26489377.64 0.0276 0.0185

Mars 67813-09-01 14:10 G 26489492.96 26489493.09 26489493.22 0.1891 0.0393

Jupiter 67814-01-28 08:24 G 26489641.75 26489641.85 26489641.95 0.0545 0.0366

Jupiter 67814-04-27 23:17 G 26489731.41 26489731.47 26489731.54 0.0545 0.0470

Earth 67815-07-10 06:43 G 26490169.71 26490169.78 26490169.84 0.2695 0.2249

Moon 67815-07-10 06:58 G 26490169.73 26490169.79 26490169.85 0.2702 0.2297 *

Mars 67816-06-21 18:15 G 26490517.24 26490517.26 26490517.28 0.1627 0.1598

Venus 67816-07-30 07:41 G 26490555.69 26490555.82 26490555.95 0.3683 0.0136

Neptune 67820-02-05 18:43 G 26491841.24 26491841.28 26491841.34 0.0090 0.0083

Jupiter 67820-03-10 22:34 G 26491875.29 26491875.44 26491875.60 0.0483 0.0146

Neptune 67820-05-03 20:39 G 26491929.28 26491929.36 26491929.45 0.0090 0.0074

Neptune 67820-07-30 22:19 G 26492017.34 26492017.43 26492017.54 0.0090 0.0066

Neptune 67820-10-27 00:29 G 26492105.41 26492105.52 26492105.63 0.0090 0.0057

Neptune 67821-01-23 02:10 G 26492193.47 26492193.59 26492193.72 0.0089 0.0048

Neptune 67821-04-21 03:51 G 26492281.54 26492281.66 26492281.80 0.0089 0.0040

Neptune 67821-07-18 05:46 G 26492369.61 26492369.74 26492369.88 0.0089 0.0032

Moon 67821-07-19 09:22 G 26492370.86 26492370.89 26492370.93 0.2683 0.2546

Earth 67821-07-19 09:22 G 26492370.87 26492370.89 26492370.92 0.2691 0.2600 *

Neptune 67821-10-14 07:27 G 26492457.68 26492457.81 26492457.96 0.0089 0.0024

Neptune 67822-01-10 09:22 G 26492545.75 26492545.89 26492546.04 0.0089 0.0015

Neptune 67822-04-08 11:03 G 26492633.82 26492633.96 26492634.11 0.0089 0.0007

Neptune 67822-07-05 12:58 G 26492721.89 26492722.04 26492722.18 0.0089 0.0002

Neptune 67822-10-01 14:39 G 26492809.97 26492810.11 26492810.26 0.0089 0.0010

Neptune 67822-12-28 16:19 G 26492898.04 26492898.18 26492898.33 0.0089 0.0018

Mars 67823-01-22 18:43 G 26492923.21 26492923.28 26492923.35 0.1887 0.1614

Neptune 67823-03-26 18:00 G 26492986.12 26492986.25 26492986.39 0.0089 0.0027

Neptune 67823-06-22 19:55 G 26493074.20 26493074.33 26493074.46 0.0089 0.0035

Neptune 67823-09-18 21:36 G 26493162.27 26493162.40 26493162.53 0.0089 0.0043

Neptune 67823-12-15 23:03 G 26493250.35 26493250.46 26493250.59 0.0089 0.0051

Moon 67824-01-18 01:12 G 26493283.43 26493283.55 26493283.67 0.2635 0.1426

Earth 67824-01-18 01:55 G 26493283.47 26493283.58 26493283.69 0.2641 0.1569 *

Neptune 67824-03-13 00:43 G 26493338.44 26493338.53 26493338.65 0.0089 0.0060

Neptune 67824-06-09 02:24 G 26493426.52 26493426.60 26493426.71 0.0089 0.0068

Neptune 67824-09-05 04:05 G 26493514.61 26493514.67 26493514.76 0.0089 0.0076

Neptune 67824-12-02 05:46 G 26493602.70 26493602.74 26493602.80 0.0089 0.0084

Mars 67825-11-12 01:55 G 26493947.46 26493947.58 26493947.70 0.1629 0.0826

Uranus 67826-02-12 22:05 G 26494040.40 26494040.42 26494040.48 0.0135 0.0130

Jupiter 67826-02-14 01:55 G 26494041.46 26494041.58 26494041.70 0.0545 0.0276

Uranus 67826-05-12 02:24 G 26494128.52 26494128.60 26494128.69 0.0136 0.0109

Uranus 67826-08-08 06:15 G 26494216.66 26494216.76 26494216.88 0.0136 0.0089

Uranus 67826-11-04 10:19 G 26494304.81 26494304.93 26494305.06 0.0136 0.0068

Uranus 67827-01-31 14:24 G 26494392.96 26494393.10 26494393.24 0.0136 0.0047

Uranus 67827-04-29 18:15 G 26494481.12 26494481.26 26494481.40 0.0136 0.0027

Saturn 67827-05-29 09:07 G 26494510.76 26494510.88 26494511.00 0.0283 0.0181

Uranus 67827-07-26 22:05 G 26494569.28 26494569.42 26494569.57 0.0136 0.0008

Saturn 67827-08-26 02:10 G 26494599.43 26494599.59 26494599.75 0.0283 0.0019

Uranus 67827-10-23 01:55 G 26494657.44 26494657.58 26494657.73 0.0136 0.0014

Saturn 67827-11-22 19:27 G 26494688.18 26494688.31 26494688.45 0.0283 0.0147

Uranus 67828-01-19 05:46 G 26494745.61 26494745.74 26494745.89 0.0136 0.0033

Uranus 67828-04-16 09:36 G 26494833.77 26494833.90 26494834.04 0.0136 0.0053

Earth 67828-07-12 02:53 G 26494920.51 26494920.62 26494920.74 0.2694 0.0928

Moon 67828-07-12 03:36 G 26494920.54 26494920.65 26494920.77 0.2698 0.0783 *

Uranus 67828-07-13 13:27 G 26494921.94 26494922.06 26494922.18 0.0136 0.0073

Uranus 67828-10-09 17:03 G 26495010.12 26495010.21 26495010.32 0.0136 0.0093

Uranus 67829-01-05 20:39 G 26495098.30 26495098.36 26495098.46 0.0136 0.0113

Uranus 67829-04-04 00:29 G 26495186.50 26495186.52 26495186.57 0.0136 0.0132

Jupiter 67831-12-29 00:00 G 26496185.34 26496185.50 26496185.66 0.0483 0.0022

Mars 67835-04-04 09:22 G 26497377.75 26497377.89 26497378.03 0.1632 0.0038

Jupiter 67837-12-03 03:51 G 26498351.52 26498351.66 26498351.80 0.0545 0.0070

Earth 67841-07-14 23:03 G 26499671.34 26499671.46 26499671.58 0.2693 0.0364

Moon 67841-07-15 00:00 G 26499671.38 26499671.50 26499671.61 0.2691 0.0411 *

Saturn 67842-04-01 22:34 G 26499932.31 26499932.44 26499932.57 0.0276 0.0136

Saturn 67842-06-29 12:29 G 26500020.87 26500021.02 26500021.17 0.0276 0.0005

Saturn 67842-09-26 02:10 G 26500109.47 26500109.59 26500109.72 0.0276 0.0144

Mars 67843-10-11 10:05 G 26500489.81 26500489.92 26500490.03 0.1894 0.1040

Jupiter 67843-10-17 01:12 G 26500495.40 26500495.55 26500495.69 0.0484 0.0192

Earth 67844-01-13 06:00 G 26500583.63 26500583.75 26500583.87 0.2638 0.1424

Moon 67844-01-13 06:43 G 26500583.67 26500583.78 26500583.90 0.2633 0.1399 *

Mars 67844-08-24 16:34 G 26500808.07 26500808.19 26500808.32 0.1635 0.0777

Jupiter 67849-09-21 05:17 G 26502661.58 26502661.72 26502661.86 0.0545 0.0147

Mars 67853-03-02 14:10 G 26503919.96 26503920.09 26503920.23 0.1890 0.0249

Mars 67854-01-14 23:31 G 26504238.46 26504238.48 26504238.50 0.1637 0.1614

Earth 67854-07-17 18:58 G 26504422.19 26504422.29 26504422.38 0.2692 0.1617

Moon 67854-07-17 19:27 G 26504422.21 26504422.31 26504422.40 0.2686 0.1677 *

Venus 67855-01-08 14:10 G 26504597.04 26504597.09 26504597.15 0.3689 0.3260

Jupiter 67855-08-05 02:39 G 26504805.50 26504805.61 26504805.71 0.0483 0.0356

Jupiter 67855-11-02 19:41 G 26504895.20 26504895.32 26504895.44 0.0484 0.0322

Saturn 67856-10-15 11:31 G 26505242.88 26505242.98 26505243.09 0.0283 0.0211

Saturn 67857-01-12 04:34 G 26505331.53 26505331.69 26505331.85 0.0283 0.0049

Moon 67857-01-15 06:43 G 26505334.64 26505334.78 26505334.92 0.2633 0.0204

Earth 67857-01-15 06:43 G 26505334.64 26505334.78 26505334.92 0.2640 0.0201 *

Saturn 67857-04-10 21:51 G 26505420.27 26505420.41 26505420.56 0.0283 0.0117

Venus 67860-07-24 08:10 G 26506620.73 26506620.84 26506620.95 0.3688 0.0112

Jupiter 67861-07-10 06:15 G 26506971.66 26506971.76 26506971.86 0.0545 0.0374

Earth 67861-07-10 11:46 G 26506971.91 26506971.99 26506972.07 0.2695 0.2002

Moon 67861-07-10 12:15 G 26506971.92 26506972.01 26506972.09 0.2702 0.1909 *

Jupiter 67861-10-07 21:07 G 26507061.31 26507061.38 26507061.45 0.0545 0.0462

Mars 67862-07-23 18:29 G 26507350.20 26507350.27 26507350.35 0.1887 0.1498

Mars 67865-05-13 02:10 G 26508374.48 26508374.59 26508374.70 0.1630 0.0951

Venus 67866-02-07 01:41 G 26508644.51 26508644.57 26508644.63 0.3687 0.3012

Uranus 67866-11-29 23:17 G 26508940.44 26508940.47 26508940.52 0.0143 0.0137

Uranus 67867-02-26 05:31 G 26509028.63 26509028.73 26509028.84 0.0143 0.0111

Uranus 67867-05-25 11:31 G 26509116.85 26509116.98 26509117.13 0.0142 0.0084

Venus 67867-08-21 07:27 G 26509204.76 26509204.81 26509204.86 0.3682 0.3324

Uranus 67867-08-21 17:46 G 26509205.09 26509205.24 26509205.40 0.0142 0.0058

Jupiter 67867-08-21 21:07 G 26509205.22 26509205.38 26509205.53 0.0483 0.0154 *

Uranus 67867-11-18 00:15 G 26509293.34 26509293.51 26509293.68 0.0142 0.0030

Uranus 67868-02-14 06:29 G 26509381.60 26509381.77 26509381.94 0.0142 0.0003

Uranus 67868-05-12 12:43 G 26509469.87 26509470.03 26509470.20 0.0142 0.0025

Uranus 67868-08-08 19:12 G 26509558.14 26509558.30 26509558.46 0.0142 0.0052

Uranus 67868-11-05 01:27 G 26509646.43 26509646.56 26509646.71 0.0142 0.0080

Uranus 67869-02-01 07:55 G 26509734.73 26509734.83 26509734.95 0.0142 0.0108

Uranus 67869-04-30 14:24 G 26509823.06 26509823.10 26509823.16 0.0142 0.0136

Moon 67870-01-18 06:58 G 26510085.69 26510085.79 26510085.89 0.2635 0.1846

Earth 67870-01-18 07:55 G 26510085.73 26510085.83 26510085.92 0.2641 0.1890 *

Saturn 67871-08-20 00:58 G 26510664.42 26510664.54 26510664.66 0.0275 0.0168

Saturn 67871-11-16 15:07 G 26510752.98 26510753.13 26510753.27 0.0276 0.0027

Saturn 67872-02-13 04:48 G 26510841.56 26510841.70 26510841.83 0.0276 0.0112

Saturn 67872-05-11 18:00 G 26510930.20 26510930.25 26510930.32 0.0276 0.0249

Venus 67873-03-06 07:27 G 26511228.69 26511228.81 26511228.92 0.3683 0.1684

Jupiter 67873-07-26 23:31 G 26511371.36 26511371.48 26511371.60 0.0545 0.0266

Earth 67874-07-13 08:10 G 26511722.72 26511722.84 26511722.95 0.2694 0.0684

Moon 67874-07-13 08:53 G 26511722.76 26511722.87 26511722.99 0.2696 0.0667 *

Mars 67874-10-03 09:51 G 26511804.77 26511804.91 26511805.04 0.1632 0.0176

Jupiter 67879-06-09 22:05 G 26513515.26 26513515.42 26513515.58 0.0483 0.0018

Mars 67883-04-11 10:19 G 26514916.83 26514916.93 26514917.04 0.1894 0.1203

Mars 67884-02-23 16:48 G 26515235.08 26515235.20 26515235.33 0.1635 0.0649

Jupiter 67885-05-15 02:10 G 26515681.45 26515681.59 26515681.72 0.0545 0.0073

Saturn 67886-03-04 10:48 G 26515974.90 26515974.95 26515975.00 0.0283 0.0268

Saturn 67886-06-01 03:36 G 26516063.50 26516063.65 26516063.80 0.0283 0.0108

Saturn 67886-08-28 20:53 G 26516152.21 26516152.37 26516152.53 0.0283 0.0055

Saturn 67886-11-25 14:24 G 26516241.00 26516241.10 26516241.20 0.0283 0.0222

Earth 67887-07-16 04:05 G 26516473.56 26516473.67 26516473.79 0.2693 0.0605

Moon 67887-07-16 05:03 G 26516473.59 26516473.71 26516473.82 0.2691 0.0758 *

Earth 67890-01-13 11:46 G 26517385.86 26517385.99 26517386.11 0.2638 0.1125

Moon 67890-01-13 12:29 G 26517385.89 26517386.02 26517386.15 0.2633 0.0978 *

Jupiter 67891-03-28 23:31 G 26517825.33 26517825.48 26517825.63 0.0483 0.0183

Mars 67892-08-31 14:24 G 26518346.96 26518347.10 26518347.23 0.1890 0.0123

Mars 67893-07-16 00:00 G 26518665.44 26518665.50 26518665.55 0.1637 0.1481

Jupiter 67897-03-03 03:51 G 26519991.53 26519991.66 26519991.80 0.0545 0.0138

Earth 67900-07-19 00:00 G 26521224.41 26521224.50 26521224.58 0.2691 0.1849

Moon 67900-07-19 00:15 G 26521224.43 26521224.51 26521224.60 0.2685 0.1834 *

Saturn 67901-01-07 01:27 G 26521396.48 26521396.56 26521396.66 0.0276 0.0217

Saturn 67901-04-05 15:51 G 26521485.02 26521485.16 26521485.30 0.0276 0.0073

Saturn 67901-07-03 05:46 G 26521573.59 26521573.74 26521573.88 0.0276 0.0068

Saturn 67901-09-29 19:12 G 26521662.21 26521662.30 26521662.40 0.0276 0.0205

Mars 67902-01-22 18:58 G 26521777.20 26521777.29 26521777.38 0.1887 0.1344

Jupiter 67903-01-16 00:58 G 26522135.43 26522135.54 26522135.65 0.0484 0.0350

Moon 67903-01-17 12:15 G 26522136.87 26522137.01 26522137.15 0.2633 0.0445

Earth 67903-01-17 12:29 G 26522136.88 26522137.02 26522137.16 0.2640 0.0507 *

Neptune 67903-04-14 07:41 G 26522223.80 26522223.82 26522223.87 0.0088 0.0086

Jupiter 67903-04-15 18:00 G 26522225.13 26522225.25 26522225.37 0.0484 0.0329

Neptune 67903-07-11 10:05 G 26522311.86 26522311.92 26522312.02 0.0088 0.0077

Neptune 67903-10-07 12:43 G 26522399.94 26522400.03 26522400.15 0.0088 0.0068

Neptune 67904-01-03 15:07 G 26522488.02 26522488.13 26522488.27 0.0088 0.0059

Neptune 67904-03-31 17:46 G 26522576.12 26522576.24 26522576.40 0.0088 0.0050

Neptune 67904-06-27 20:39 G 26522664.21 26522664.36 26522664.51 0.0088 0.0040

Neptune 67904-09-23 23:17 G 26522752.31 26522752.47 26522752.63 0.0088 0.0031

Mars 67904-11-12 02:24 G 26522801.50 26522801.60 26522801.71 0.1629 0.1075

Neptune 67904-12-21 01:41 G 26522840.41 26522840.57 26522840.74 0.0088 0.0022

Neptune 67905-03-19 04:19 G 26522928.51 26522928.68 26522928.85 0.0088 0.0013

Neptune 67905-06-15 06:58 G 26523016.62 26523016.79 26523016.96 0.0088 0.0004

Neptune 67905-09-11 09:36 G 26523104.73 26523104.90 26523105.07 0.0088 0.0006

Neptune 67905-12-08 12:15 G 26523192.84 26523193.01 26523193.18 0.0088 0.0015

Neptune 67906-03-06 14:39 G 26523280.95 26523281.11 26523281.28 0.0088 0.0025

Neptune 67906-06-02 17:17 G 26523369.07 26523369.22 26523369.39 0.0088 0.0034

Neptune 67906-08-29 20:10 G 26523457.19 26523457.34 26523457.49 0.0088 0.0043

Neptune 67906-11-25 22:34 G 26523545.31 26523545.44 26523545.59 0.0088 0.0053

Neptune 67907-02-22 01:27 G 26523633.44 26523633.56 26523633.68 0.0088 0.0062

Neptune 67907-05-21 03:51 G 26523721.57 26523721.66 26523721.77 0.0088 0.0072

Earth 67907-07-12 17:03 G 26523774.12 26523774.21 26523774.30 0.2695 0.1747

Moon 67907-07-12 17:31 G 26523774.14 26523774.23 26523774.32 0.2701 0.1764 *

Neptune 67907-08-17 06:43 G 26523809.72 26523809.78 26523809.85 0.0088 0.0081

Jupiter 67908-12-21 05:17 G 26524301.62 26524301.72 26524301.83 0.0545 0.0354

Jupiter 67909-03-20 20:10 G 26524391.28 26524391.34 26524391.41 0.0544 0.0479

Uranus 67910-03-06 05:46 G 26524741.69 26524741.74 26524741.81 0.0135 0.0122

Uranus 67910-06-02 09:51 G 26524829.82 26524829.91 26524830.01 0.0136 0.0101

Uranus 67910-08-29 13:55 G 26524917.97 26524918.08 26524918.20 0.0136 0.0080

Uranus 67910-11-25 18:00 G 26525006.12 26525006.25 26525006.38 0.0136 0.0060

Uranus 67911-02-21 21:51 G 26525094.27 26525094.41 26525094.55 0.0136 0.0040

Uranus 67911-05-21 01:41 G 26525182.43 26525182.57 26525182.72 0.0136 0.0020

Venus 67911-08-16 12:15 G 26525269.92 26525270.01 26525270.11 0.3689 0.2053

Uranus 67911-08-17 05:46 G 26525270.59 26525270.74 26525270.88 0.0136 0.0002

Uranus 67911-11-13 09:36 G 26525358.76 26525358.90 26525359.04 0.0136 0.0021

Uranus 67912-02-09 13:12 G 26525446.92 26525447.05 26525447.20 0.0136 0.0041

Uranus 67912-05-07 17:17 G 26525535.09 26525535.22 26525535.35 0.0136 0.0060

Uranus 67912-08-03 20:53 G 26525623.26 26525623.37 26525623.49 0.0136 0.0080

Uranus 67912-10-31 00:29 G 26525711.44 26525711.52 26525711.63 0.0136 0.0100

Uranus 67913-01-27 04:19 G 26525799.62 26525799.68 26525799.75 0.0136 0.0120

Mars 67914-04-04 09:51 G 26526231.78 26526231.91 26526232.05 0.1632 0.0291

Jupiter 67915-02-01 19:12 G 26526535.15 26526535.30 26526535.45 0.0484 0.0159

Saturn 67915-10-20 05:31 G 26526795.59 26526795.73 26526795.87 0.0283 0.0143

Saturn 67916-01-16 22:34 G 26526884.28 26526884.44 26526884.60 0.0283 0.0021

Moon 67916-01-20 12:43 G 26526887.95 26526888.03 26526888.12 0.2636 0.2083

Earth 67916-01-20 13:41 G 26526887.99 26526888.07 26526888.15 0.2641 0.2204 *

Saturn 67916-04-14 16:05 G 26526973.05 26526973.17 26526973.30 0.0283 0.0186

Venus 67917-03-01 06:00 G 26527293.65 26527293.75 26527293.86 0.3688 0.1107

Earth 67920-07-14 13:12 G 26528524.93 26528525.05 26528525.17 0.2693 0.0437

Moon 67920-07-14 14:10 G 26528524.97 26528525.09 26528525.21 0.2695 0.0279 *

Jupiter 67921-01-06 21:36 G 26528701.28 26528701.40 26528701.52 0.0545 0.0261

Mars 67922-10-11 10:19 G 26529343.83 26529343.93 26529344.02 0.1894 0.1319

Earth 67923-01-12 17:03 G 26529437.16 26529437.21 26529437.26 0.2637 0.2407

Moon 67923-01-12 18:00 G 26529437.18 26529437.25 26529437.33 0.2634 0.2217 *

Mars 67923-08-25 17:17 G 26529662.08 26529662.22 26529662.35 0.1635 0.0515

Venus 67924-03-28 06:58 G 26529877.67 26529877.79 26529877.91 0.3682 0.1582

Jupiter 67926-11-20 20:39 G 26530845.20 26530845.36 26530845.53 0.0483 0.0011

Venus 67929-10-12 06:58 G 26531901.75 26531901.79 26531901.83 0.3684 0.3492

Saturn 67930-05-27 04:19 G 26532128.61 26532128.68 26532128.75 0.0275 0.0245

Saturn 67930-08-23 18:29 G 26532217.13 26532217.27 26532217.41 0.0275 0.0103

Saturn 67930-11-20 08:24 G 26532305.70 26532305.85 26532305.99 0.0275 0.0037

Saturn 67931-02-16 21:51 G 26532394.30 26532394.41 26532394.53 0.0275 0.0175

Mars 67932-03-02 14:39 G 26532773.97 26532774.11 26532774.24 0.1891 0.0064

Jupiter 67932-10-25 23:46 G 26533011.35 26533011.49 26533011.63 0.0545 0.0062

Mars 67933-01-15 00:15 G 26533092.43 26533092.51 26533092.59 0.1637 0.1344

Earth 67933-07-17 09:07 G 26533275.77 26533275.88 26533276.00 0.2692 0.0846

Moon 67933-07-17 10:05 G 26533275.80 26533275.92 26533276.03 0.2690 0.0855 *

Earth 67936-01-15 17:31 G 26534188.09 26534188.23 26534188.36 0.2639 0.0831

Moon 67936-01-15 18:00 G 26534188.12 26534188.25 26534188.39 0.2633 0.0841 *

Jupiter 67938-09-08 21:51 G 26535155.26 26535155.41 26535155.57 0.0483 0.0176

Mars 67941-07-23 18:58 G 26536204.19 26536204.29 26536204.39 0.1887 0.1202

Mars 67944-05-13 02:39 G 26537228.52 26537228.61 26537228.70 0.1629 0.1196

Jupiter 67944-08-14 02:10 G 26537321.46 26537321.59 26537321.73 0.0545 0.0136

Saturn 67945-03-08 04:34 G 26537527.59 26537527.69 26537527.81 0.0283 0.0202

Saturn 67945-06-04 21:36 G 26537616.25 26537616.40 26537616.56 0.0283 0.0040

Saturn 67945-09-01 15:07 G 26537704.98 26537705.13 26537705.27 0.0283 0.0125

Earth 67946-07-20 05:03 G 26538026.64 26538026.71 26538026.78 0.2691 0.2079

Moon 67946-07-20 05:17 G 26538026.65 26538026.72 26538026.79 0.2684 0.2156 *

Moon 67949-01-17 18:00 G 26538939.11 26538939.25 26538939.38 0.2633 0.0839

Earth 67949-01-17 18:15 G 26538939.13 26538939.26 26538939.40 0.2640 0.0819 *

Jupiter 67950-06-27 23:31 G 26539465.37 26539465.48 26539465.60 0.0483 0.0338

Jupiter 67950-09-25 16:34 G 26539555.08 26539555.19 26539555.31 0.0483 0.0340

Pluto 67950-11-17 00:43 G 26539607.50 26539607.53 26539607.60 0.0065 0.0061

Uranus 67950-12-21 06:43 G 26539641.72 26539641.78 26539641.86 0.0143 0.0129

Pluto 67951-02-13 01:27 G 26539695.48 26539695.56 26539695.67 0.0065 0.0050

Uranus 67951-03-19 12:58 G 26539729.93 26539730.04 26539730.16 0.0142 0.0102

Pluto 67951-05-12 02:24 G 26539783.49 26539783.60 26539783.72 0.0065 0.0039

Uranus 67951-06-15 18:58 G 26539818.16 26539818.29 26539818.44 0.0142 0.0076

Pluto 67951-08-08 02:53 G 26539871.50 26539871.62 26539871.77 0.0065 0.0029

Uranus 67951-09-12 01:12 G 26539906.40 26539906.55 26539906.72 0.0142 0.0049

Pluto 67951-11-04 03:51 G 26539959.52 26539959.66 26539959.81 0.0065 0.0018

Uranus 67951-12-09 07:41 G 26539994.65 26539994.82 26539994.99 0.0142 0.0021

Pluto 67952-01-31 04:34 G 26540047.54 26540047.69 26540047.84 0.0065 0.0007

Uranus 67952-03-06 13:55 G 26540082.91 26540083.08 26540083.25 0.0142 0.0006

Pluto 67952-04-28 05:17 G 26540135.57 26540135.72 26540135.87 0.0065 0.0004

Uranus 67952-06-02 20:10 G 26540171.18 26540171.34 26540171.51 0.0142 0.0034

Pluto 67952-07-25 06:00 G 26540223.61 26540223.75 26540223.90 0.0065 0.0014

Uranus 67952-08-30 02:39 G 26540259.46 26540259.61 26540259.77 0.0142 0.0061

Pluto 67952-10-21 06:29 G 26540311.64 26540311.77 26540311.92 0.0065 0.0026

Uranus 67952-11-26 08:53 G 26540347.75 26540347.87 26540348.01 0.0142 0.0089

Pluto 67953-01-17 07:12 G 26540399.69 26540399.80 26540399.94 0.0066 0.0036

Uranus 67953-02-22 15:22 G 26540436.05 26540436.14 26540436.25 0.0142 0.0117

Pluto 67953-04-15 08:10 G 26540487.74 26540487.84 26540487.94 0.0066 0.0047

Pluto 67953-07-12 08:39 G 26540575.80 26540575.86 26540575.94 0.0066 0.0058

Earth 67953-07-12 22:05 G 26540576.33 26540576.42 26540576.52 0.2694 0.1504

Moon 67953-07-12 22:48 G 26540576.35 26540576.45 26540576.55 0.2700 0.1427 *

Mars 67953-10-03 10:05 G 26540658.79 26540658.92 26540659.06 0.1632 0.0418

Jupiter 67956-06-02 04:05 G 26541631.56 26541631.67 26541631.78 0.0545 0.0343

Jupiter 67956-08-30 19:12 G 26541721.24 26541721.30 26541721.35 0.0545 0.0491

Saturn 67960-01-10 18:43 G 26542949.16 26542949.28 26542949.41 0.0276 0.0154

Saturn 67960-04-08 08:53 G 26543037.72 26543037.87 26543038.01 0.0276 0.0015

Saturn 67960-07-05 22:34 G 26543126.31 26543126.44 26543126.57 0.0276 0.0126

Saturn 67960-10-02 11:46 G 26543214.96 26543214.99 26543215.04 0.0276 0.0262

Moon 67962-01-20 18:29 G 26543690.22 26543690.27 26543690.33 0.2637 0.2412

Earth 67962-01-20 19:41 G 26543690.28 26543690.32 26543690.35 0.2641 0.2529 *

Mars 67962-04-11 10:34 G 26543770.86 26543770.94 26543771.02 0.1894 0.1474

Jupiter 67962-07-14 17:46 G 26543865.08 26543865.24 26543865.39 0.0484 0.0167

Mars 67963-02-23 17:31 G 26544089.09 26544089.23 26544089.37 0.1635 0.0387

Earth 67966-07-15 18:29 G 26545327.15 26545327.27 26545327.39 0.2693 0.0209

Moon 67966-07-15 19:12 G 26545327.19 26545327.30 26545327.42 0.2695 0.0180 *

Venus 67968-03-22 10:19 G 26545942.82 26545942.93 26545943.04 0.3689 0.0864

Jupiter 67968-06-18 20:53 G 26546031.26 26546031.37 26546031.49 0.0545 0.0285

Earth 67969-01-12 22:48 G 26546239.37 26546239.45 26546239.53 0.2638 0.2110

Moon 67969-01-12 23:46 G 26546239.41 26546239.49 26546239.58 0.2634 0.2082 *

Mars 67971-09-01 14:39 G 26547200.98 26547201.11 26547201.24 0.1890 0.0179

Mars 67972-07-16 00:29 G 26547519.43 26547519.52 26547519.61 0.1638 0.1216

Venus 67973-10-06 04:05 G 26547966.58 26547966.67 26547966.75 0.3688 0.2259

Jupiter 67974-05-02 18:58 G 26548175.13 26548175.29 26548175.46 0.0483 0.0014

Saturn 67974-07-26 06:15 G 26548259.68 26548259.76 26548259.84 0.0283 0.0241

Saturn 67974-10-22 23:03 G 26548348.31 26548348.46 26548348.61 0.0283 0.0080

Saturn 67975-01-19 16:19 G 26548437.03 26548437.18 26548437.33 0.0283 0.0084

Saturn 67975-04-18 09:51 G 26548525.84 26548525.91 26548525.99 0.0283 0.0252

Earth 67979-07-18 14:24 G 26550077.99 26550078.10 26550078.21 0.2692 0.1079

Moon 67979-07-18 14:53 G 26550078.02 26550078.12 26550078.23 0.2688 0.1219 *

Jupiter 67980-04-06 22:05 G 26550341.28 26550341.42 26550341.56 0.0545 0.0061

Venus 67980-11-02 06:29 G 26550550.63 26550550.77 26550550.90 0.3683 0.0186

Mars 67981-01-21 18:58 G 26550631.18 26550631.29 26550631.40 0.1887 0.1077

Earth 67982-01-15 23:17 G 26550990.33 26550990.47 26550990.60 0.2639 0.0528

Moon 67982-01-15 23:31 G 26550990.34 26550990.48 26550990.62 0.2633 0.0410 *

Mars 67983-11-12 02:53 G 26551655.54 26551655.62 26551655.70 0.1630 0.1319

Neptune 67984-08-06 15:51 G 26551924.14 26551924.16 26551924.20 0.0090 0.0088

Neptune 67984-11-02 18:00 G 26552012.18 26552012.25 26552012.32 0.0090 0.0079

Neptune 67985-01-29 19:27 G 26552100.24 26552100.31 26552100.42 0.0090 0.0071

Neptune 67985-04-27 21:36 G 26552188.30 26552188.40 26552188.51 0.0090 0.0062

Neptune 67985-07-24 23:17 G 26552276.36 26552276.47 26552276.60 0.0089 0.0054

Neptune 67985-10-21 01:12 G 26552364.43 26552364.55 26552364.68 0.0089 0.0045

Neptune 67986-01-17 02:53 G 26552452.49 26552452.62 26552452.76 0.0089 0.0037

Jupiter 67986-02-18 20:39 G 26552485.21 26552485.36 26552485.52 0.0483 0.0162

Neptune 67986-04-15 04:48 G 26552540.56 26552540.70 26552540.84 0.0089 0.0028

Earth 67986-07-11 06:58 G 26552627.76 26552627.79 26552627.82 0.2695 0.2590

Moon 67986-07-11 06:58 G 26552627.77 26552627.79 26552627.81 0.2703 0.2633 *

Neptune 67986-07-12 06:43 G 26552628.64 26552628.78 26552628.92 0.0089 0.0020

Neptune 67986-10-08 08:24 G 26552716.71 26552716.85 26552717.00 0.0089 0.0011

Neptune 67987-01-04 10:05 G 26552804.78 26552804.92 26552805.07 0.0089 0.0004

Neptune 67987-04-02 12:00 G 26552892.85 26552893.00 26552893.14 0.0089 0.0005

Neptune 67987-06-29 13:41 G 26552980.93 26552981.07 26552981.22 0.0089 0.0014

Neptune 67987-09-25 15:22 G 26553069.00 26553069.14 26553069.29 0.0089 0.0022

Neptune 67987-12-22 17:03 G 26553157.08 26553157.21 26553157.35 0.0089 0.0030

Neptune 67988-03-19 18:43 G 26553245.16 26553245.28 26553245.42 0.0089 0.0039

Neptune 67988-06-15 20:24 G 26553333.24 26553333.35 26553333.48 0.0089 0.0047

Neptune 67988-09-11 22:19 G 26553421.32 26553421.43 26553421.55 0.0089 0.0054

Neptune 67988-12-09 00:00 G 26553509.40 26553509.50 26553509.61 0.0089 0.0063

Neptune 67989-03-07 01:41 G 26553597.49 26553597.57 26553597.66 0.0089 0.0071

Saturn 67989-05-29 21:22 G 26553681.28 26553681.39 26553681.51 0.0275 0.0183

Neptune 67989-06-03 03:22 G 26553685.58 26553685.64 26553685.71 0.0089 0.0079

Saturn 67989-08-26 11:31 G 26553769.83 26553769.98 26553770.13 0.0275 0.0042

Neptune 67989-08-30 05:03 G 26553773.69 26553773.71 26553773.75 0.0089 0.0087

Saturn 67989-11-23 01:12 G 26553858.42 26553858.55 26553858.69 0.0275 0.0098

Saturn 67990-02-19 14:53 G 26553947.04 26553947.12 26553947.20 0.0275 0.0233

Jupiter 67992-01-25 00:00 G 26554651.37 26554651.50 26554651.64 0.0545 0.0144

Earth 67992-07-20 10:05 G 26554828.86 26554828.92 26554828.98 0.2691 0.2310

Moon 67992-07-20 10:19 G 26554828.87 26554828.93 26554828.99 0.2684 0.2262 *

Mars 67993-04-03 10:34 G 26555085.81 26555085.94 26555086.07 0.1632 0.0546

Uranus 67993-12-28 09:22 G 26555354.88 26555354.89 26555354.91 0.0135 0.0134

Uranus 67994-03-26 13:12 G 26555442.98 26555443.05 26555443.14 0.0136 0.0114

Uranus 67994-06-22 17:31 G 26555531.12 26555531.23 26555531.34 0.0136 0.0093

Uranus 67994-09-18 21:22 G 26555619.27 26555619.39 26555619.52 0.0136 0.0073

Uranus 67994-12-16 01:27 G 26555707.43 26555707.56 26555707.69 0.0136 0.0052

Moon 67995-01-18 23:31 G 26555741.35 26555741.48 26555741.62 0.2633 0.1007

Earth 67995-01-19 00:00 G 26555741.38 26555741.50 26555741.63 0.2640 0.1127 *

Uranus 67995-03-14 05:17 G 26555795.58 26555795.72 26555795.87 0.0136 0.0032

Uranus 67995-06-10 09:22 G 26555883.74 26555883.89 26555884.03 0.0136 0.0012

Uranus 67995-09-06 13:12 G 26555971.90 26555972.05 26555972.19 0.0136 0.0008

Uranus 67995-12-03 17:03 G 26556060.07 26556060.21 26556060.35 0.0136 0.0028

Uranus 67996-02-29 20:53 G 26556148.23 26556148.37 26556148.50 0.0136 0.0048

Uranus 67996-05-28 00:29 G 26556236.40 26556236.52 26556236.65 0.0136 0.0068

Uranus 67996-08-24 04:19 G 26556324.58 26556324.68 26556324.79 0.0136 0.0088

Uranus 67996-11-20 08:10 G 26556412.76 26556412.84 26556412.93 0.0136 0.0107

Uranus 67997-02-16 12:00 G 26556500.95 26556501.00 26556501.05 0.0136 0.0127

Jupiter 67997-12-07 22:05 G 26556795.31 26556795.42 26556795.54 0.0483 0.0328

Jupiter 67998-03-07 15:07 G 26556885.02 26556885.13 26556885.24 0.0483 0.0349

Earth 67999-07-14 03:22 G 26557378.53 26557378.64 26557378.74 0.2694 0.1252

Moon 67999-07-14 04:05 G 26557378.56 26557378.67 26557378.77 0.2698 0.1173 *

69TH MILLENNIUM CE

This is a list of transits of Mercury in the 69th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Mars 68001-10-10 10:48 G 26558197.88 26558197.95 26558198.02 0.1894 0.1623

Mars 68002-08-24 17:46 G 26558516.10 26558516.24 26558516.38 0.1635 0.0260

Jupiter 68003-11-13 02:10 G 26558961.49 26558961.59 26558961.71 0.0545 0.0344

Jupiter 68004-02-10 17:17 G 26559051.17 26559051.22 26559051.28 0.0545 0.0494

Saturn 68004-03-10 22:05 G 26559080.28 26559080.42 26559080.56 0.0283 0.0139

Saturn 68004-06-07 15:07 G 26559168.97 26559169.13 26559169.29 0.0283 0.0025

Saturn 68004-09-04 08:39 G 26559257.74 26559257.86 26559257.98 0.0283 0.0190

Jupiter 68009-12-24 16:34 G 26561195.03 26561195.19 26561195.34 0.0483 0.0181

Mars 68011-03-02 14:53 G 26561627.98 26561628.12 26561628.25 0.1890 0.0326

Mars 68012-01-15 00:43 G 26561946.43 26561946.53 26561946.64 0.1637 0.1083

Earth 68012-07-15 23:31 G 26562129.36 26562129.48 26562129.60 0.2693 0.0052

Moon 68012-07-16 00:29 G 26562129.40 26562129.52 26562129.63 0.2694 0.0217 *

Earth 68015-01-14 04:34 G 26563041.59 26563041.69 26563041.79 0.2638 0.1819

Moon 68015-01-14 05:31 G 26563041.62 26563041.73 26563041.84 0.2634 0.1645 *

Jupiter 68015-11-29 19:41 G 26563361.21 26563361.32 26563361.44 0.0545 0.0297

Saturn 68018-10-16 21:22 G 26564413.32 26564413.39 26564413.47 0.0276 0.0238

Saturn 68019-01-13 11:46 G 26564501.85 26564501.99 26564502.13 0.0276 0.0095

Saturn 68019-04-12 01:41 G 26564590.42 26564590.57 26564590.71 0.0276 0.0046

Venus 68019-04-13 14:24 G 26564592.03 26564592.10 26564592.17 0.3690 0.2881

Saturn 68019-07-09 15:07 G 26564679.03 26564679.13 26564679.24 0.0276 0.0183

Mars 68020-07-22 19:12 G 26565058.19 26565058.30 26565058.41 0.1887 0.0932

Jupiter 68021-10-12 17:31 G 26565505.07 26565505.23 26565505.40 0.0484 0.0014

Mars 68023-05-13 03:07 G 26566082.57 26566082.63 26566082.70 0.1630 0.1441

Venus 68024-10-27 08:24 G 26566615.74 26566615.85 26566615.96 0.3688 0.0333

Earth 68025-07-18 19:27 G 26566880.21 26566880.31 26566880.41 0.2692 0.1317

Moon 68025-07-18 20:10 G 26566880.23 26566880.34 26566880.44 0.2687 0.1311 *

Jupiter 68027-09-17 21:36 G 26567671.26 26567671.40 26567671.54 0.0545 0.0089

Moon 68028-01-17 05:03 G 26567792.57 26567792.71 26567792.85 0.2632 0.0293

Earth 68028-01-17 05:03 G 26567792.57 26567792.71 26567792.85 0.2639 0.0229 *

Venus 68030-05-13 01:55 G 26568639.54 26568639.58 26568639.62 0.3687 0.3388

Venus 68031-11-24 06:15 G 26569199.69 26569199.76 26569199.83 0.3681 0.3015

Moon 68032-07-11 12:15 G 26569429.95 26569430.01 26569430.07 0.2702 0.2286

Earth 68032-07-11 12:15 G 26569429.95 26569430.01 26569430.06 0.2695 0.2338 *

Mars 68032-10-02 10:48 G 26569512.82 26569512.95 26569513.07 0.1632 0.0667

Saturn 68033-07-28 22:48 G 26569812.34 26569812.45 26569812.58 0.0283 0.0184

Jupiter 68033-07-31 19:12 G 26569815.15 26569815.30 26569815.45 0.0483 0.0153

Saturn 68033-10-25 15:51 G 26569901.01 26569901.16 26569901.33 0.0283 0.0023

Saturn 68034-01-22 09:22 G 26569989.75 26569989.89 26569990.03 0.0283 0.0144

Uranus 68035-01-10 13:55 G 26570343.00 26570343.08 26570343.17 0.0142 0.0121

Uranus 68035-04-08 19:55 G 26570431.22 26570431.33 26570431.47 0.0142 0.0094

Uranus 68035-07-06 02:10 G 26570519.45 26570519.59 26570519.75 0.0142 0.0068

Uranus 68035-10-02 08:24 G 26570607.69 26570607.85 26570608.02 0.0142 0.0041

Uranus 68035-12-29 14:39 G 26570695.94 26570696.11 26570696.28 0.0142 0.0014

Uranus 68036-03-26 21:07 G 26570784.21 26570784.38 26570784.55 0.0142 0.0014

Uranus 68036-06-23 03:22 G 26570872.48 26570872.64 26570872.81 0.0142 0.0041

Uranus 68036-09-19 09:36 G 26570960.76 26570960.90 26570961.06 0.0142 0.0069

Uranus 68036-12-16 15:51 G 26571049.05 26571049.16 26571049.30 0.0142 0.0097

Uranus 68037-03-14 22:34 G 26571137.36 26571137.44 26571137.52 0.0142 0.0124

Venus 68037-06-09 06:00 G 26571223.64 26571223.75 26571223.86 0.3683 0.1957

Earth 68038-07-21 15:07 G 26571631.10 26571631.13 26571631.17 0.2691 0.2541

Moon 68038-07-21 15:07 G 26571631.11 26571631.13 26571631.16 0.2685 0.2603 *

Pluto 68039-05-11 14:10 G 26571925.06 26571925.09 26571925.16 0.0079 0.0075

Jupiter 68039-07-06 22:19 G 26571981.30 26571981.43 26571981.57 0.0545 0.0141

Pluto 68039-08-07 16:05 G 26572013.06 26572013.17 26572013.30 0.0079 0.0054

Pluto 68039-11-03 18:00 G 26572101.11 26572101.25 26572101.41 0.0079 0.0033

Pluto 68040-01-30 19:55 G 26572189.17 26572189.33 26572189.50 0.0079 0.0012

Pluto 68040-04-27 21:51 G 26572277.25 26572277.41 26572277.58 0.0079 0.0010

Pluto 68040-07-24 23:31 G 26572365.34 26572365.48 26572365.64 0.0078 0.0031

Pluto 68040-10-21 01:27 G 26572453.44 26572453.56 26572453.69 0.0078 0.0051

Pluto 68041-01-17 03:07 G 26572541.58 26572541.63 26572541.71 0.0078 0.0072

Moon 68041-01-19 05:17 G 26572543.61 26572543.72 26572543.84 0.2634 0.1468

Earth 68041-01-19 06:00 G 26572543.63 26572543.75 26572543.87 0.2640 0.1444 *

Mars 68041-04-10 10:48 G 26572624.90 26572624.95 26572625.00 0.1894 0.1753

Mars 68042-02-22 18:15 G 26572943.12 26572943.26 26572943.40 0.1635 0.0136

Jupiter 68045-05-19 20:53 G 26574125.26 26574125.37 26574125.50 0.0483 0.0313

Earth 68045-07-14 08:24 G 26574180.74 26574180.85 26574180.96 0.2694 0.1007

Moon 68045-07-14 09:22 G 26574180.77 26574180.89 26574181.00 0.2698 0.0952 *

Jupiter 68045-08-17 13:55 G 26574214.98 26574215.08 26574215.19 0.0483 0.0367

Saturn 68048-03-05 00:00 G 26575145.47 26575145.50 26575145.54 0.0275 0.0267

Saturn 68048-06-01 14:24 G 26575233.97 26575234.10 26575234.23 0.0275 0.0124

Saturn 68048-08-29 04:19 G 26575322.53 26575322.68 26575322.83 0.0275 0.0017

Saturn 68048-11-25 18:00 G 26575411.13 26575411.25 26575411.37 0.0275 0.0154

Mars 68050-08-31 14:53 G 26576054.99 26576055.12 26576055.25 0.1891 0.0459

Jupiter 68051-04-25 00:15 G 26576291.40 26576291.51 26576291.62 0.0545 0.0350

Mars 68051-07-16 01:12 G 26576373.43 26576373.55 26576373.66 0.1637 0.0953

Jupiter 68051-07-23 15:22 G 26576381.08 26576381.14 26576381.20 0.0545 0.0488

Jupiter 68057-03-07 22:34 G 26578435.42 26578435.44 26578435.47 0.0483 0.0476

Jupiter 68057-06-05 15:07 G 26578524.98 26578525.13 26578525.28 0.0483 0.0192

Earth 68058-07-17 04:34 G 26578931.58 26578931.69 26578931.81 0.2693 0.0305

Moon 68058-07-17 05:31 G 26578931.61 26578931.73 26578931.85 0.2692 0.0360 *

Mars 68060-01-21 19:27 G 26579485.19 26579485.31 26579485.43 0.1887 0.0783

Earth 68061-01-14 10:19 G 26579843.81 26579843.93 26579844.04 0.2638 0.1520

Moon 68061-01-14 11:03 G 26579843.85 26579843.96 26579844.08 0.2634 0.1475 *

Mars 68062-11-11 03:22 G 26580509.61 26580509.64 26580509.68 0.1629 0.1562

Saturn 68062-12-15 22:19 G 26580544.35 26580544.43 26580544.52 0.0283 0.0238

Saturn 68063-03-14 15:22 G 26580632.98 26580633.14 26580633.29 0.0283 0.0078

Jupiter 68063-05-11 18:00 G 26580691.14 26580691.25 26580691.37 0.0545 0.0298

Saturn 68063-06-11 08:24 G 26580721.70 26580721.85 26580722.01 0.0283 0.0086

Saturn 68063-09-08 01:55 G 26580810.52 26580810.58 26580810.66 0.0283 0.0253

Neptune 68068-01-09 06:29 G 26582394.72 26582394.77 26582394.85 0.0088 0.0081

Neptune 68068-04-06 08:53 G 26582482.79 26582482.87 26582482.98 0.0088 0.0072

Neptune 68068-07-03 11:31 G 26582570.88 26582570.98 26582571.11 0.0088 0.0063

Neptune 68068-09-29 13:55 G 26582658.96 26582659.08 26582659.23 0.0088 0.0054

Neptune 68068-12-26 16:34 G 26582747.06 26582747.19 26582747.35 0.0088 0.0045

Jupiter 68069-03-24 16:34 G 26582835.03 26582835.19 26582835.35 0.0483 0.0026

Neptune 68069-03-24 19:12 G 26582835.15 26582835.30 26582835.46 0.0088 0.0036 *

Neptune 68069-06-20 21:51 G 26582923.25 26582923.41 26582923.58 0.0088 0.0026

Neptune 68069-09-17 00:29 G 26583011.35 26583011.52 26583011.69 0.0088 0.0017

Neptune 68069-12-14 03:07 G 26583099.46 26583099.63 26583099.80 0.0088 0.0008

Neptune 68070-03-12 05:46 G 26583187.57 26583187.74 26583187.91 0.0088 0.0002

Neptune 68070-06-08 08:10 G 26583275.68 26583275.84 26583276.02 0.0088 0.0011

Neptune 68070-09-04 10:48 G 26583363.79 26583363.95 26583364.12 0.0088 0.0020

Neptune 68070-12-01 13:12 G 26583451.90 26583452.05 26583452.23 0.0088 0.0030

Neptune 68071-02-27 16:05 G 26583540.02 26583540.17 26583540.33 0.0088 0.0039

Neptune 68071-05-26 18:43 G 26583628.14 26583628.28 26583628.43 0.0088 0.0048

Earth 68071-07-20 00:29 G 26583682.43 26583682.52 26583682.62 0.2692 0.1549

Moon 68071-07-20 00:58 G 26583682.45 26583682.54 26583682.64 0.2686 0.1662 *

Neptune 68071-08-22 21:07 G 26583716.27 26583716.38 26583716.53 0.0088 0.0058

Neptune 68071-11-19 00:00 G 26583804.40 26583804.50 26583804.62 0.0088 0.0067

Neptune 68072-02-15 02:24 G 26583892.54 26583892.60 26583892.70 0.0088 0.0077

Mars 68072-04-02 11:03 G 26583939.84 26583939.96 26583940.08 0.1632 0.0792

Neptune 68072-05-13 05:17 G 26583980.70 26583980.72 26583980.76 0.0088 0.0086

Moon 68074-01-17 10:48 G 26584594.81 26584594.95 26584595.09 0.2632 0.0163

Earth 68074-01-17 10:48 G 26584594.81 26584594.95 26584595.09 0.2639 0.0089 *

Jupiter 68075-02-27 20:24 G 26585001.21 26585001.35 26585001.49 0.0545 0.0101

Venus 68075-11-18 12:29 G 26585264.92 26585265.02 26585265.12 0.3689 0.1681

Saturn 68077-10-19 14:10 G 26585965.98 26585966.09 26585966.21 0.0276 0.0180

Saturn 68078-01-16 04:19 G 26586054.53 26586054.68 26586054.83 0.0276 0.0038

Uranus 68078-01-17 16:48 G 26586056.15 26586056.20 26586056.25 0.0135 0.0127

Saturn 68078-04-14 18:15 G 26586143.12 26586143.26 26586143.39 0.0276 0.0101

Uranus 68078-04-15 20:39 G 26586144.28 26586144.36 26586144.46 0.0136 0.0107

Saturn 68078-07-12 07:41 G 26586231.75 26586231.82 26586231.89 0.0276 0.0237

Earth 68078-07-12 17:17 G 26586232.15 26586232.22 26586232.30 0.2695 0.2080

Moon 68078-07-12 17:46 G 26586232.16 26586232.24 26586232.31 0.2701 0.2118 *

Uranus 68078-07-13 00:43 G 26586232.42 26586232.53 26586232.65 0.0136 0.0086

Uranus 68078-10-09 04:48 G 26586320.57 26586320.70 26586320.83 0.0136 0.0066

Uranus 68079-01-05 08:39 G 26586408.73 26586408.86 26586409.00 0.0136 0.0045

Uranus 68079-04-03 12:43 G 26586496.88 26586497.03 26586497.17 0.0136 0.0025

Uranus 68079-06-30 16:34 G 26586585.05 26586585.19 26586585.34 0.0136 0.0005

Uranus 68079-09-26 20:24 G 26586673.21 26586673.35 26586673.50 0.0136 0.0015

Uranus 68079-12-24 00:15 G 26586761.37 26586761.51 26586761.65 0.0136 0.0035

Uranus 68080-03-21 04:05 G 26586849.54 26586849.67 26586849.80 0.0136 0.0055

Uranus 68080-06-17 07:41 G 26586937.71 26586937.82 26586937.95 0.0136 0.0075

Uranus 68080-09-13 11:46 G 26587025.89 26587025.99 26587026.09 0.0136 0.0094

Uranus 68080-12-10 15:22 G 26587114.07 26587114.14 26587114.22 0.0136 0.0114

Jupiter 68081-01-10 17:46 G 26587145.09 26587145.24 26587145.40 0.0483 0.0143

Uranus 68081-03-08 19:12 G 26587202.28 26587202.30 26587202.33 0.0136 0.0133

Venus 68081-06-03 06:15 G 26587288.66 26587288.76 26587288.86 0.3688 0.1474

Mars 68081-08-23 18:15 G 26587370.12 26587370.26 26587370.40 0.1635 0.0042

Moon 68084-07-21 20:10 G 26588433.33 26588433.34 26588433.34 0.2684 0.2681

Jupiter 68086-12-16 22:05 G 26589311.28 26589311.42 26589311.56 0.0545 0.0109

Moon 68087-01-20 11:03 G 26589345.85 26589345.96 26589346.07 0.2636 0.1593

Earth 68087-01-20 11:46 G 26589345.89 26589345.99 26589346.10 0.2640 0.1761 *

Venus 68088-06-30 05:46 G 26589872.61 26589872.74 26589872.86 0.3682 0.1291

Mars 68090-03-01 15:07 G 26590482.00 26590482.13 26590482.25 0.1890 0.0603

Mars 68091-01-14 01:27 G 26590800.44 26590800.56 26590800.68 0.1638 0.0822

Earth 68091-07-15 13:41 G 26590982.95 26590983.07 26590983.18 0.2694 0.0756

Moon 68091-07-15 14:24 G 26590982.99 26590983.10 26590983.22 0.2698 0.0633 *

Saturn 68092-07-31 15:36 G 26591365.01 26591365.15 26591365.29 0.0283 0.0128

Saturn 68092-10-28 08:39 G 26591453.70 26591453.86 26591454.02 0.0283 0.0035

Jupiter 68092-10-29 19:41 G 26591455.20 26591455.32 26591455.44 0.0483 0.0302

Saturn 68093-01-25 02:10 G 26591542.48 26591542.59 26591542.70 0.0283 0.0201

Jupiter 68093-01-27 12:43 G 26591544.93 26591545.03 26591545.13 0.0483 0.0377

Moon 68094-01-12 17:03 G 26591895.19 26591895.21 26591895.22 0.2635 0.2620

Jupiter 68098-10-04 22:48 G 26593621.34 26593621.45 26593621.56 0.0545 0.0343

Jupiter 68099-01-02 13:55 G 26593711.02 26593711.08 26593711.13 0.0545 0.0494

Mars 68099-07-22 19:12 G 26593912.18 26593912.30 26593912.43 0.1887 0.0667

Earth 68104-07-18 09:51 G 26595733.79 26595733.91 26595734.02 0.2693 0.0538

Moon 68104-07-18 10:34 G 26595733.82 26595733.94 26595734.06 0.2690 0.0607 *

Jupiter 68104-08-18 21:36 G 26595765.35 26595765.40 26595765.45 0.0483 0.0459

Jupiter 68104-11-16 14:10 G 26595854.94 26595855.09 26595855.24 0.0483 0.0211

Earth 68107-01-16 15:51 G 26596646.04 26596646.16 26596646.28 0.2638 0.1229

Moon 68107-01-16 16:34 G 26596646.07 26596646.19 26596646.32 0.2633 0.1150 *

Saturn 68107-03-09 16:48 G 26596698.11 26596698.20 26596698.31 0.0275 0.0208

Saturn 68107-06-06 07:12 G 26596786.65 26596786.80 26596786.94 0.0275 0.0066

Saturn 68107-09-02 21:07 G 26596875.23 26596875.38 26596875.52 0.0275 0.0074

Saturn 68107-11-30 10:34 G 26596963.85 26596963.94 26596964.04 0.0275 0.0209

Mars 68108-12-13 00:15 G 26597342.49 26597342.51 26597342.54 0.1883 0.1846

Jupiter 68110-10-22 16:05 G 26598021.05 26598021.17 26598021.29 0.0545 0.0294

Mars 68111-10-03 11:17 G 26598366.86 26598366.97 26598367.09 0.1632 0.0920

Jupiter 68116-09-04 15:22 G 26600164.98 26600165.14 26600165.30 0.0483 0.0040

Earth 68117-07-21 05:31 G 26600484.65 26600484.73 26600484.82 0.2692 0.1785

Moon 68117-07-21 06:00 G 26600484.67 26600484.75 26600484.84 0.2686 0.1789 *

Uranus 68118-11-04 15:07 G 26600956.10 26600956.13 26600956.17 0.0143 0.0139

Uranus 68119-01-31 21:07 G 26601044.29 26601044.38 26601044.49 0.0142 0.0113

Uranus 68119-04-30 03:07 G 26601132.51 26601132.63 26601132.78 0.0142 0.0087

Uranus 68119-07-27 09:22 G 26601220.75 26601220.89 26601221.05 0.0142 0.0060

Uranus 68119-10-23 15:51 G 26601308.99 26601309.16 26601309.32 0.0142 0.0032

Moon 68120-01-19 16:34 G 26601397.05 26601397.19 26601397.33 0.2632 0.0334

Earth 68120-01-19 16:34 G 26601397.05 26601397.19 26601397.33 0.2639 0.0400 *

Uranus 68120-01-19 22:05 G 26601397.25 26601397.42 26601397.59 0.0142 0.0005 *

Uranus 68120-04-17 04:19 G 26601485.51 26601485.68 26601485.85 0.0142 0.0022

Uranus 68120-07-14 10:34 G 26601573.78 26601573.94 26601574.10 0.0142 0.0050

Uranus 68120-10-10 16:48 G 26601662.07 26601662.20 26601662.35 0.0142 0.0077

Uranus 68121-01-06 23:17 G 26601750.36 26601750.47 26601750.59 0.0142 0.0105

Mars 68121-02-22 18:43 G 26601797.14 26601797.28 26601797.42 0.1635 0.0131

Uranus 68121-04-05 05:31 G 26601838.69 26601838.73 26601838.81 0.0142 0.0133

Saturn 68121-12-19 15:07 G 26602097.01 26602097.13 26602097.25 0.0283 0.0182

Saturn 68122-03-18 08:10 G 26602185.68 26602185.84 26602186.00 0.0283 0.0021

Saturn 68122-06-15 01:27 G 26602274.42 26602274.56 26602274.70 0.0283 0.0144

Jupiter 68122-08-10 18:29 G 26602331.14 26602331.27 26602331.41 0.0545 0.0102

Earth 68124-07-13 22:34 G 26603034.35 26603034.44 26603034.52 0.2695 0.1833

Moon 68124-07-13 23:03 G 26603034.37 26603034.46 26603034.55 0.2701 0.1711 *

Jupiter 68128-06-23 16:48 G 26604475.05 26604475.20 26604475.36 0.0483 0.0125

Mars 68129-08-31 15:07 G 26604909.01 26604909.13 26604909.25 0.1890 0.0738

Mars 68130-07-16 01:41 G 26605227.44 26605227.57 26605227.70 0.1637 0.0690

Venus 68132-06-25 10:34 G 26605937.83 26605937.94 26605938.05 0.3689 0.0489

Moon 68133-01-21 16:48 G 26606148.11 26606148.20 26606148.28 0.2636 0.2057

Earth 68133-01-21 17:46 G 26606148.15 26606148.24 26606148.32 0.2640 0.2082 *

Jupiter 68134-05-29 20:53 G 26606641.23 26606641.37 26606641.51 0.0545 0.0098

Saturn 68136-07-26 16:34 G 26607430.16 26607430.19 26607430.23 0.0275 0.0265

Saturn 68136-10-23 06:58 G 26607518.65 26607518.79 26607518.92 0.0275 0.0122

Saturn 68137-01-19 20:53 G 26607607.22 26607607.37 26607607.52 0.0275 0.0018

Saturn 68137-04-18 10:34 G 26607695.82 26607695.94 26607696.06 0.0275 0.0155

Earth 68137-07-16 18:58 G 26607785.17 26607785.29 26607785.40 0.2694 0.0517

Moon 68137-07-16 19:41 G 26607785.20 26607785.32 26607785.44 0.2697 0.0476 *

Venus 68138-01-09 04:19 G 26607961.60 26607961.68 26607961.75 0.3688 0.2640

Mars 68139-01-21 19:41 G 26608339.19 26608339.32 26608339.44 0.1887 0.0512

Mars 68139-12-06 08:39 G 26608657.81 26608657.86 26608657.90 0.1640 0.1530

Earth 68140-01-14 21:22 G 26608697.35 26608697.39 26608697.43 0.2637 0.2493

Moon 68140-01-14 22:34 G 26608697.39 26608697.44 26608697.49 0.2636 0.2431 *

Jupiter 68140-04-11 18:15 G 26608785.13 26608785.26 26608785.39 0.0483 0.0291

Jupiter 68140-07-10 11:17 G 26608874.88 26608874.97 26608875.07 0.0484 0.0388

Venus 68145-02-05 05:17 G 26610545.59 26610545.72 26610545.85 0.3682 0.0491

Jupiter 68146-03-17 22:34 G 26610951.32 26610951.44 26610951.56 0.0545 0.0309

Jupiter 68146-06-15 13:41 G 26611041.04 26611041.07 26611041.10 0.0545 0.0526

Mars 68148-06-13 00:15 G 26611769.46 26611769.51 26611769.56 0.1882 0.1721

Neptune 68149-05-04 15:07 G 26612095.09 26612095.13 26612095.19 0.0090 0.0083

Neptune 68149-07-31 17:03 G 26612183.14 26612183.21 26612183.30 0.0090 0.0075

Neptune 68149-10-27 18:43 G 26612271.20 26612271.28 26612271.39 0.0090 0.0067

Neptune 68150-01-23 20:39 G 26612359.26 26612359.36 26612359.48 0.0090 0.0058

Neptune 68150-04-21 22:34 G 26612447.33 26612447.44 26612447.57 0.0089 0.0049

Neptune 68150-07-19 00:29 G 26612535.39 26612535.52 26612535.65 0.0089 0.0041

Earth 68150-07-19 14:53 G 26612536.01 26612536.12 26612536.23 0.2693 0.0775

Moon 68150-07-19 15:36 G 26612536.04 26612536.15 26612536.27 0.2689 0.0891 *

Neptune 68150-10-15 02:10 G 26612623.46 26612623.59 26612623.74 0.0089 0.0033

Neptune 68151-01-11 04:05 G 26612711.53 26612711.67 26612711.82 0.0089 0.0024

Mars 68151-04-03 11:31 G 26612793.87 26612793.98 26612794.09 0.1632 0.1038

Neptune 68151-04-09 06:00 G 26612799.60 26612799.75 26612799.89 0.0089 0.0015

Saturn 68151-05-08 15:07 G 26612829.04 26612829.13 26612829.22 0.0283 0.0234

Neptune 68151-07-06 07:41 G 26612887.68 26612887.82 26612887.97 0.0089 0.0007

Saturn 68151-08-05 07:55 G 26612917.68 26612917.83 26612917.99 0.0283 0.0074

Neptune 68151-10-02 09:36 G 26612975.75 26612975.90 26612976.04 0.0089 0.0003

Saturn 68151-11-02 01:12 G 26613006.40 26613006.55 26613006.70 0.0283 0.0090

Neptune 68151-12-29 11:17 G 26613063.82 26613063.97 26613064.11 0.0089 0.0010

Saturn 68152-01-29 18:43 G 26613095.22 26613095.28 26613095.35 0.0283 0.0257

Jupiter 68152-01-29 20:10 G 26613095.29 26613095.34 26613095.40 0.0483 0.0448 *

Neptune 68152-03-26 12:58 G 26613151.90 26613152.04 26613152.19 0.0089 0.0018

Jupiter 68152-04-28 12:43 G 26613184.89 26613185.03 26613185.18 0.0483 0.0223

Neptune 68152-06-22 14:39 G 26613239.98 26613240.11 26613240.25 0.0089 0.0026

Neptune 68152-09-18 16:19 G 26613328.05 26613328.18 26613328.32 0.0089 0.0035

Neptune 68152-12-15 18:00 G 26613416.13 26613416.25 26613416.39 0.0089 0.0043

Earth 68153-01-16 21:36 G 26613448.27 26613448.40 26613448.53 0.2638 0.0928

Moon 68153-01-16 22:05 G 26613448.29 26613448.42 26613448.56 0.2632 0.0854 *

Neptune 68153-03-13 19:55 G 26613504.21 26613504.33 26613504.45 0.0089 0.0051

Neptune 68153-06-09 21:36 G 26613592.30 26613592.40 26613592.51 0.0089 0.0059

Neptune 68153-09-05 23:17 G 26613680.38 26613680.47 26613680.57 0.0089 0.0067

Neptune 68153-12-03 00:58 G 26613768.47 26613768.54 26613768.62 0.0089 0.0075

Neptune 68154-03-01 02:39 G 26613856.57 26613856.61 26613856.67 0.0089 0.0083

Jupiter 68158-04-03 14:39 G 26615351.00 26615351.11 26615351.23 0.0545 0.0302

Mars 68160-08-23 18:58 G 26616224.15 26616224.29 26616224.43 0.1635 0.0255

Uranus 68162-02-07 23:46 G 26616757.44 26616757.49 26616757.57 0.0136 0.0121

Uranus 68162-05-07 04:05 G 26616845.57 26616845.67 26616845.77 0.0136 0.0100

Uranus 68162-08-03 07:55 G 26616933.72 26616933.83 26616933.96 0.0136 0.0080

Uranus 68162-10-30 12:00 G 26617021.87 26617022.00 26617022.13 0.0136 0.0059

Uranus 68163-01-26 15:51 G 26617110.03 26617110.16 26617110.31 0.0136 0.0039

Uranus 68163-04-24 19:55 G 26617198.19 26617198.33 26617198.48 0.0136 0.0018

Uranus 68163-07-21 23:46 G 26617286.35 26617286.49 26617286.64 0.0136 0.0003

Earth 68163-07-22 10:48 G 26617286.87 26617286.95 26617287.02 0.2692 0.2019

Moon 68163-07-22 11:03 G 26617286.88 26617286.96 26617287.03 0.2686 0.2057 *

Uranus 68163-10-18 03:36 G 26617374.51 26617374.65 26617374.80 0.0136 0.0022

Uranus 68164-01-14 07:27 G 26617462.68 26617462.81 26617462.95 0.0136 0.0042

Jupiter 68164-02-15 14:24 G 26617494.94 26617495.10 26617495.26 0.0483 0.0058

Uranus 68164-04-11 11:31 G 26617550.85 26617550.98 26617551.10 0.0136 0.0062

Uranus 68164-07-08 15:07 G 26617639.02 26617639.13 26617639.25 0.0136 0.0081

Uranus 68164-10-04 18:43 G 26617727.20 26617727.28 26617727.39 0.0136 0.0101

Uranus 68164-12-31 22:34 G 26617815.39 26617815.44 26617815.51 0.0136 0.0121

Moon 68166-01-19 22:05 G 26618199.29 26618199.42 26618199.56 0.2633 0.0716

Earth 68166-01-19 22:19 G 26618199.30 26618199.43 26618199.57 0.2639 0.0704 *

Saturn 68166-03-12 09:36 G 26618250.78 26618250.90 26618251.03 0.0275 0.0150

Saturn 68166-06-08 23:46 G 26618339.34 26618339.49 26618339.64 0.0275 0.0010

Saturn 68166-09-05 13:27 G 26618427.93 26618428.06 26618428.19 0.0276 0.0128

Saturn 68166-12-03 02:53 G 26618516.59 26618516.62 26618516.66 0.0276 0.0263

Mars 68169-03-01 15:22 G 26619336.03 26619336.14 26619336.26 0.1891 0.0889

Mars 68170-01-14 01:55 G 26619654.45 26619654.58 26619654.72 0.1637 0.0562

Jupiter 68170-01-20 16:34 G 26619661.06 26619661.19 26619661.33 0.0545 0.0098

Earth 68170-07-15 03:36 G 26619836.56 26619836.65 26619836.75 0.2695 0.1580

Moon 68170-07-15 04:19 G 26619836.58 26619836.68 26619836.77 0.2701 0.1599 *

Jupiter 68175-12-04 15:36 G 26621805.00 26621805.15 26621805.31 0.0483 0.0111

Mars 68178-07-22 19:41 G 26622766.19 26622766.32 26622766.45 0.1886 0.0372

Moon 68179-01-22 22:19 G 26622950.36 26622950.43 26622950.51 0.2637 0.2208

Earth 68179-01-22 23:31 G 26622950.42 26622950.48 26622950.54 0.2641 0.2399 *

Mars 68179-06-06 08:53 G 26623084.80 26623084.87 26623084.94 0.1640 0.1396

Saturn 68180-12-22 07:41 G 26623649.68 26623649.82 26623649.97 0.0283 0.0126

Saturn 68181-03-21 00:43 G 26623738.38 26623738.53 26623738.69 0.0283 0.0038

Saturn 68181-06-17 18:15 G 26623827.15 26623827.26 26623827.37 0.0283 0.0202

Jupiter 68181-11-08 18:58 G 26623971.15 26623971.29 26623971.43 0.0546 0.0100

Venus 68183-07-17 14:39 G 26624587.03 26624587.11 26624587.19 0.3690 0.2495

Earth 68183-07-18 00:00 G 26624587.38 26624587.50 26624587.62 0.2694 0.0269

Moon 68183-07-18 00:43 G 26624587.41 26624587.53 26624587.65 0.2695 0.0123 *

Earth 68186-01-15 03:07 G 26625499.55 26625499.63 26625499.70 0.2637 0.2208

Moon 68186-01-15 04:05 G 26625499.58 26625499.67 26625499.76 0.2635 0.2032 *

Jupiter 68187-09-22 17:17 G 26626115.09 26626115.22 26626115.36 0.0483 0.0273

Mars 68187-12-13 00:29 G 26626196.45 26626196.52 26626196.59 0.1883 0.1583

Jupiter 68187-12-21 10:19 G 26626204.84 26626204.93 26626205.02 0.0483 0.0405

Venus 68189-01-30 08:24 G 26626610.75 26626610.85 26626610.96 0.3688 0.0717

Mars 68190-10-02 11:46 G 26627220.90 26627220.99 26627221.09 0.1632 0.1163

Jupiter 68193-08-27 21:07 G 26628281.27 26628281.38 26628281.50 0.0545 0.0300

Jupiter 68193-11-25 12:15 G 26628371.00 26628371.01 26628371.04 0.0545 0.0537

Saturn 68195-07-30 09:22 G 26628982.79 26628982.89 26628982.99 0.0275 0.0207

Saturn 68195-10-26 23:31 G 26629071.34 26629071.48 26629071.63 0.0275 0.0065

Saturn 68196-01-23 13:27 G 26629159.92 26629160.06 26629160.20 0.0275 0.0074

Venus 68196-02-27 05:03 G 26629194.62 26629194.71 26629194.80 0.3681 0.2672

Saturn 68196-04-21 02:53 G 26629248.54 26629248.62 26629248.72 0.0275 0.0211

Earth 68196-07-19 19:55 G 26629338.22 26629338.33 26629338.44 0.2693 0.1015

Moon 68196-07-19 20:53 G 26629338.26 26629338.37 26629338.48 0.2689 0.1053 *

Pluto 68198-06-21 09:07 G 26630039.88 26630039.88 26630039.92 0.0065 0.0064

Pluto 68198-09-17 10:05 G 26630127.84 26630127.92 26630128.01 0.0065 0.0053

Pluto 68198-12-14 10:34 G 26630215.84 26630215.94 26630216.07 0.0065 0.0043

Earth 68199-01-18 03:22 G 26630250.51 26630250.64 26630250.78 0.2638 0.0631

Moon 68199-01-18 03:51 G 26630250.52 26630250.66 26630250.80 0.2632 0.0629 *

Pluto 68199-03-12 11:31 G 26630303.85 26630303.98 26630304.12 0.0065 0.0032

Pluto 68199-06-08 12:15 G 26630391.87 26630392.01 26630392.16 0.0065 0.0021

Jupiter 68199-07-11 18:58 G 26630425.22 26630425.29 26630425.35 0.0483 0.0437

Pluto 68199-09-04 12:58 G 26630479.90 26630480.04 26630480.19 0.0065 0.0011

Jupiter 68199-10-09 11:31 G 26630514.83 26630514.98 26630515.12 0.0483 0.0234

Pluto 68199-12-01 13:41 G 26630567.92 26630568.07 26630568.22 0.0065 0.0002

Mars 68200-02-22 19:12 G 26630651.16 26630651.30 26630651.44 0.1635 0.0379

Pluto 68200-02-27 14:24 G 26630655.96 26630656.10 26630656.25 0.0065 0.0011

Pluto 68200-05-26 14:53 G 26630743.99 26630744.12 26630744.28 0.0065 0.0023

Pluto 68200-08-22 15:51 G 26630832.03 26630832.16 26630832.29 0.0065 0.0033

Pluto 68200-11-18 16:19 G 26630920.08 26630920.18 26630920.30 0.0066 0.0044

Pluto 68201-02-14 17:03 G 26631008.14 26631008.21 26631008.30 0.0066 0.0055

Pluto 68201-05-13 18:00 G 26631096.25 26631096.25 26631096.26 0.0066 0.0066

Venus 68201-09-13 04:48 G 26631218.60 26631218.70 26631218.80 0.3683 0.2279

Uranus 68202-11-25 22:19 G 26631657.37 26631657.43 26631657.49 0.0143 0.0132

Uranus 68203-02-22 04:05 G 26631745.57 26631745.67 26631745.79 0.0142 0.0106

Uranus 68203-05-21 10:19 G 26631833.80 26631833.93 26631834.08 0.0142 0.0079

Earth 68203-07-14 12:15 G 26631888.01 26631888.01 26631888.03 0.2696 0.2679

Uranus 68203-08-17 16:34 G 26631922.03 26631922.19 26631922.35 0.0142 0.0052

Uranus 68203-11-13 22:48 G 26632010.28 26632010.45 26632010.62 0.0142 0.0025

Uranus 68204-02-10 05:03 G 26632098.54 26632098.71 26632098.88 0.0142 0.0002

Uranus 68204-05-08 11:17 G 26632186.80 26632186.97 26632187.14 0.0142 0.0029

Uranus 68204-08-04 17:31 G 26632275.08 26632275.23 26632275.39 0.0142 0.0056

Uranus 68204-10-31 23:46 G 26632363.36 26632363.49 26632363.64 0.0142 0.0084

Uranus 68205-01-28 06:29 G 26632451.66 26632451.77 26632451.87 0.0142 0.0111

Uranus 68205-04-26 12:43 G 26632540.00 26632540.03 26632540.06 0.0142 0.0139

Jupiter 68205-06-16 22:48 G 26632591.41 26632591.45 26632591.50 0.0545 0.0513

Jupiter 68205-09-14 14:24 G 26632680.99 26632681.10 26632681.21 0.0545 0.0335

Mars 68208-08-31 15:22 G 26633763.03 26633763.14 26633763.25 0.1890 0.1020

Mars 68209-07-16 02:24 G 26634081.46 26634081.60 26634081.73 0.1638 0.0434

Moon 68209-07-23 15:51 G 26634089.10 26634089.16 26634089.22 0.2685 0.2270

Earth 68209-07-23 15:51 G 26634089.10 26634089.16 26634089.22 0.2692 0.2252 *

Saturn 68210-05-12 07:27 G 26634381.69 26634381.81 26634381.93 0.0283 0.0181

Saturn 68210-08-09 00:29 G 26634470.36 26634470.52 26634470.68 0.0283 0.0021

Saturn 68210-11-05 17:31 G 26634559.10 26634559.23 26634559.38 0.0283 0.0145

Jupiter 68211-07-29 12:58 G 26634824.88 26634825.04 26634825.21 0.0483 0.0072

Moon 68212-01-22 03:36 G 26635001.52 26635001.65 26635001.79 0.2634 0.0967

Earth 68212-01-22 04:19 G 26635001.55 26635001.68 26635001.80 0.2640 0.1017 *

Earth 68216-07-16 08:53 G 26636638.76 26636638.87 26636638.97 0.2695 0.1332

Moon 68216-07-16 09:22 G 26636638.79 26636638.89 26636639.00 0.2700 0.1202 *

Jupiter 68217-07-03 15:22 G 26636991.00 26636991.14 26636991.28 0.0545 0.0107

Mars 68218-01-21 19:41 G 26637193.19 26637193.32 26637193.45 0.1887 0.0246

Mars 68218-12-06 09:22 G 26637511.80 26637511.89 26637511.98 0.1640 0.1258

Jupiter 68223-05-17 14:53 G 26639134.96 26639135.12 26639135.27 0.0483 0.0094

Saturn 68224-12-17 12:00 G 26639714.93 26639715.00 26639715.08 0.0276 0.0235

Saturn 68225-03-16 02:24 G 26639803.46 26639803.60 26639803.74 0.0276 0.0093

Saturn 68225-06-12 16:19 G 26639892.03 26639892.18 26639892.33 0.0276 0.0047

Saturn 68225-09-09 06:00 G 26639980.64 26639980.75 26639980.86 0.0276 0.0184

Mars 68227-06-14 00:43 G 26640623.45 26640623.53 26640623.61 0.1883 0.1434

Jupiter 68229-04-21 17:03 G 26641301.07 26641301.21 26641301.35 0.0545 0.0103

Earth 68229-07-19 05:03 G 26641389.59 26641389.71 26641389.83 0.2694 0.0065

Moon 68229-07-19 06:00 G 26641389.63 26641389.75 26641389.87 0.2693 0.0006 *

Mars 68230-04-03 12:15 G 26641647.92 26641648.01 26641648.09 0.1632 0.1290

Earth 68232-01-17 08:39 G 26642301.77 26642301.86 26642301.96 0.2637 0.1913

Moon 68232-01-17 09:36 G 26642301.81 26642301.90 26642302.00 0.2633 0.1905 *

Neptune 68232-07-11 02:39 G 26642477.59 26642477.61 26642477.67 0.0088 0.0085

Neptune 68232-10-07 05:17 G 26642565.65 26642565.72 26642565.82 0.0088 0.0076

Neptune 68233-01-03 07:41 G 26642653.73 26642653.82 26642653.95 0.0088 0.0067

Neptune 68233-04-01 10:19 G 26642741.82 26642741.93 26642742.07 0.0088 0.0058

Neptune 68233-06-28 12:58 G 26642829.91 26642830.04 26642830.19 0.0088 0.0049

Neptune 68233-09-24 15:22 G 26642918.00 26642918.14 26642918.30 0.0088 0.0040

Neptune 68233-12-21 18:00 G 26643006.10 26643006.25 26643006.42 0.0088 0.0031

Neptune 68234-03-19 20:39 G 26643094.20 26643094.36 26643094.53 0.0088 0.0021

Neptune 68234-06-15 23:17 G 26643182.30 26643182.47 26643182.64 0.0088 0.0012

Neptune 68234-09-12 01:55 G 26643270.41 26643270.58 26643270.75 0.0088 0.0003

Neptune 68234-12-09 04:19 G 26643358.51 26643358.68 26643358.86 0.0088 0.0007

Jupiter 68235-03-05 16:05 G 26643445.04 26643445.17 26643445.31 0.0483 0.0260

Neptune 68235-03-07 06:58 G 26643446.62 26643446.79 26643446.96 0.0088 0.0016

Neptune 68235-06-03 09:36 G 26643534.74 26643534.90 26643535.07 0.0088 0.0025

Jupiter 68235-06-03 09:07 G 26643534.80 26643534.88 26643534.96 0.0483 0.0419 *

Neptune 68235-08-30 12:15 G 26643622.85 26643623.01 26643623.17 0.0088 0.0034

Neptune 68235-11-26 14:39 G 26643710.97 26643711.11 26643711.27 0.0088 0.0044

Neptune 68236-02-22 17:31 G 26643799.09 26643799.23 26643799.37 0.0088 0.0053

Neptune 68236-05-20 19:55 G 26643887.22 26643887.33 26643887.46 0.0088 0.0063

Neptune 68236-08-16 22:48 G 26643975.36 26643975.45 26643975.55 0.0088 0.0072

Neptune 68236-11-13 01:12 G 26644063.50 26644063.55 26644063.63 0.0088 0.0082

Mars 68239-08-24 19:27 G 26645078.18 26645078.31 26645078.45 0.1635 0.0504

Saturn 68239-09-29 07:55 G 26645113.74 26645113.83 26645113.92 0.0283 0.0227

Saturn 68239-12-27 00:43 G 26645202.37 26645202.53 26645202.68 0.0283 0.0067

Venus 68240-02-22 12:43 G 26645259.92 26645260.03 26645260.13 0.3689 0.1286

Saturn 68240-03-24 17:46 G 26645291.09 26645291.24 26645291.40 0.0283 0.0096

Saturn 68240-06-21 11:17 G 26645379.92 26645379.97 26645380.03 0.0283 0.0263

Jupiter 68241-02-07 19:12 G 26645611.18 26645611.30 26645611.42 0.0545 0.0305

Jupiter 68241-05-08 10:19 G 26645700.91 26645700.93 26645700.96 0.0545 0.0534

Earth 68242-07-22 00:58 G 26646140.44 26646140.54 26646140.65 0.2693 0.1252

Moon 68242-07-22 01:41 G 26646140.47 26646140.57 26646140.68 0.2689 0.1372 *

Earth 68245-01-19 09:07 G 26647052.74 26647052.88 26647053.02 0.2638 0.0330

Moon 68245-01-19 09:36 G 26647052.76 26647052.90 26647053.04 0.2632 0.0237 *

Venus 68245-09-07 06:29 G 26647283.68 26647283.77 26647283.87 0.3688 0.1876

Uranus 68245-12-03 03:07 G 26647370.62 26647370.63 26647370.64 0.0136 0.0135

Uranus 68246-03-01 06:58 G 26647458.72 26647458.79 26647458.88 0.0136 0.0115

Uranus 68246-05-28 11:03 G 26647546.86 26647546.96 26647547.07 0.0136 0.0094

Uranus 68246-08-24 15:07 G 26647635.01 26647635.13 26647635.26 0.0136 0.0073

Uranus 68246-11-20 19:12 G 26647723.17 26647723.30 26647723.44 0.0136 0.0053

Jupiter 68246-12-22 17:46 G 26647755.17 26647755.24 26647755.32 0.0483 0.0421

Uranus 68247-02-16 23:03 G 26647811.32 26647811.46 26647811.61 0.0136 0.0033

Jupiter 68247-03-22 10:19 G 26647844.80 26647844.93 26647845.07 0.0483 0.0250

Uranus 68247-05-16 03:07 G 26647899.48 26647899.63 26647899.77 0.0136 0.0013

Uranus 68247-08-12 06:58 G 26647987.65 26647987.79 26647987.94 0.0136 0.0008

Uranus 68247-11-08 10:48 G 26648075.81 26648075.95 26648076.09 0.0136 0.0028

Uranus 68248-02-04 14:39 G 26648163.98 26648164.11 26648164.25 0.0136 0.0048

Mars 68248-03-01 15:36 G 26648190.05 26648190.15 26648190.26 0.1890 0.1165

Uranus 68248-05-02 18:29 G 26648252.15 26648252.27 26648252.40 0.0136 0.0067

Uranus 68248-07-29 22:19 G 26648340.32 26648340.43 26648340.54 0.0136 0.0087

Uranus 68248-10-26 02:10 G 26648428.50 26648428.59 26648428.68 0.0136 0.0107

Mars 68249-01-14 02:39 G 26648508.47 26648508.61 26648508.75 0.1637 0.0302

Uranus 68249-01-22 05:46 G 26648516.70 26648516.74 26648516.80 0.0136 0.0126

Earth 68249-07-14 17:31 G 26648690.18 26648690.23 26648690.28 0.2696 0.2422

Moon 68249-07-14 17:46 G 26648690.19 26648690.24 26648690.30 0.2702 0.2395 *

Venus 68252-10-04 04:34 G 26649867.56 26649867.69 26649867.82 0.3682 0.0949

Jupiter 68252-11-26 21:22 G 26649921.34 26649921.39 26649921.44 0.0545 0.0507

Jupiter 68253-02-24 12:58 G 26650010.94 26650011.04 26650011.15 0.0545 0.0343

Saturn 68254-08-03 02:10 G 26650535.46 26650535.59 26650535.72 0.0275 0.0149

Saturn 68254-10-30 16:19 G 26650624.03 26650624.18 26650624.33 0.0275 0.0009

Saturn 68255-01-27 06:00 G 26650712.62 26650712.75 26650712.88 0.0275 0.0130

Saturn 68255-04-25 19:41 G 26650801.28 26650801.32 26650801.35 0.0275 0.0265

Moon 68255-07-24 20:53 G 26650891.32 26650891.37 26650891.42 0.2684 0.2437

Earth 68255-07-24 20:53 G 26650891.33 26650891.37 26650891.41 0.2691 0.2481 *

Mars 68257-07-22 19:55 G 26651620.20 26651620.33 26651620.46 0.1887 0.0101

Moon 68258-01-22 09:22 G 26651803.76 26651803.89 26651804.01 0.2634 0.1215

Earth 68258-01-22 10:05 G 26651803.80 26651803.92 26651804.04 0.2640 0.1324 *

Mars 68258-06-06 09:36 G 26651938.79 26651938.90 26651939.00 0.1641 0.1132

Jupiter 68259-01-08 11:31 G 26652154.82 26652154.98 26652155.14 0.0483 0.0080

Earth 68262-07-17 14:10 G 26653440.98 26653441.09 26653441.20 0.2695 0.1084

Moon 68262-07-17 14:39 G 26653441.00 26653441.11 26653441.22 0.2699 0.1067 *

Jupiter 68264-12-13 15:07 G 26654320.99 26654321.13 26654321.26 0.0545 0.0139

Mars 68266-12-13 00:43 G 26655050.43 26655050.53 26655050.62 0.1882 0.1313

Saturn 68269-05-15 00:00 G 26655934.36 26655934.50 26655934.64 0.0283 0.0125

Saturn 68269-08-11 17:03 G 26656023.05 26656023.21 26656023.37 0.0283 0.0037

Mars 68269-10-02 12:29 G 26656074.95 26656075.02 26656075.08 0.1632 0.1408

Saturn 68269-11-08 10:34 G 26656111.83 26656111.94 26656112.05 0.0283 0.0202

Jupiter 68270-10-27 13:27 G 26656464.90 26656465.06 26656465.22 0.0483 0.0083

Earth 68275-07-20 10:19 G 26658191.81 26658191.93 26658192.05 0.2693 0.0237

Moon 68275-07-20 11:03 G 26658191.84 26658191.96 26658192.08 0.2692 0.0398 *

Jupiter 68276-10-01 15:51 G 26658631.02 26658631.16 26658631.30 0.0545 0.0093

Earth 68278-01-17 14:24 G 26659103.99 26659104.10 26659104.21 0.2638 0.1624

Moon 68278-01-17 15:07 G 26659104.02 26659104.13 26659104.25 0.2632 0.1454 *

Mars 68279-02-22 19:55 G 26659505.20 26659505.33 26659505.46 0.1635 0.0636

Jupiter 68282-08-15 15:07 G 26660774.99 26660775.13 26660775.27 0.0483 0.0244

Jupiter 68282-11-13 08:10 G 26660864.77 26660864.84 26660864.91 0.0484 0.0437

Saturn 68283-12-21 04:48 G 26661267.59 26661267.70 26661267.82 0.0276 0.0177

Saturn 68284-03-18 18:58 G 26661356.15 26661356.29 26661356.44 0.0276 0.0036

Saturn 68284-06-15 08:53 G 26661444.74 26661444.87 26661445.01 0.0276 0.0104

Saturn 68284-09-11 22:19 G 26661533.37 26661533.43 26661533.51 0.0276 0.0240

Uranus 68286-12-16 05:17 G 26662358.65 26662358.72 26662358.81 0.0143 0.0125

Pluto 68287-03-12 23:31 G 26662445.39 26662445.48 26662445.59 0.0079 0.0062

Uranus 68287-03-14 11:17 G 26662446.86 26662446.97 26662447.10 0.0142 0.0098

Pluto 68287-06-09 01:27 G 26662533.42 26662533.56 26662533.71 0.0079 0.0040

Uranus 68287-06-10 17:31 G 26662535.09 26662535.23 26662535.38 0.0142 0.0072

Mars 68287-08-31 15:51 G 26662617.06 26662617.16 26662617.25 0.1891 0.1308

Pluto 68287-09-05 03:22 G 26662621.48 26662621.64 26662621.80 0.0079 0.0019

Uranus 68287-09-06 23:31 G 26662623.33 26662623.48 26662623.65 0.0142 0.0045

Pluto 68287-12-02 05:17 G 26662709.55 26662709.72 26662709.88 0.0079 0.0002

Uranus 68287-12-04 05:46 G 26662711.58 26662711.74 26662711.91 0.0142 0.0018

Pluto 68288-02-28 06:58 G 26662797.63 26662797.79 26662797.95 0.0079 0.0023

Uranus 68288-03-01 12:00 G 26662799.83 26662800.00 26662800.17 0.0142 0.0009

Pluto 68288-05-26 08:53 G 26662885.73 26662885.87 26662886.01 0.0078 0.0044

Uranus 68288-05-28 18:15 G 26662888.10 26662888.26 26662888.43 0.0142 0.0036

Mars 68288-07-15 02:53 G 26662935.48 26662935.62 26662935.76 0.1637 0.0174

Jupiter 68288-07-20 17:17 G 26662941.11 26662941.22 26662941.34 0.0545 0.0307

Earth 68288-07-22 06:15 G 26662942.66 26662942.76 26662942.86 0.2692 0.1486

Moon 68288-07-22 06:43 G 26662942.68 26662942.78 26662942.88 0.2687 0.1470 *

Pluto 68288-08-22 10:34 G 26662973.85 26662973.94 26662974.04 0.0078 0.0065

Uranus 68288-08-25 00:43 G 26662976.37 26662976.53 26662976.68 0.0142 0.0064

Jupiter 68288-10-18 08:24 G 26663030.83 26663030.85 26663030.88 0.0545 0.0531

Uranus 68288-11-21 06:43 G 26663064.66 26663064.78 26663064.92 0.0142 0.0091

Uranus 68289-02-17 12:58 G 26663152.97 26663153.04 26663153.15 0.0142 0.0119

Earth 68291-01-20 14:53 G 26663854.98 26663855.12 26663855.26 0.2639 0.0041

Moon 68291-01-20 15:07 G 26663854.99 26663855.13 26663855.27 0.2632 0.0084 *

Venus 68291-03-15 16:48 G 26663909.15 26663909.20 26663909.24 0.3690 0.3331

Jupiter 68294-06-03 16:34 G 26665085.11 26665085.19 26665085.27 0.0483 0.0409

Jupiter 68294-09-01 09:07 G 26665174.74 26665174.88 26665175.01 0.0483 0.0261

Earth 68295-07-15 22:48 G 26665492.38 26665492.45 26665492.52 0.2696 0.2169

Moon 68295-07-15 23:03 G 26665492.39 26665492.46 26665492.53 0.2703 0.2140 *

Venus 68296-09-28 10:48 G 26665932.84 26665932.95 26665933.06 0.3689 0.0132

Mars 68297-01-20 20:10 G 26666047.21 26666047.34 26666047.47 0.1886 0.0053

Mars 68297-12-05 09:51 G 26666365.80 26666365.91 26666366.02 0.1640 0.0997

Saturn 68298-10-02 00:58 G 26666666.41 26666666.54 26666666.67 0.0283 0.0167

Saturn 68298-12-29 17:46 G 26666755.08 26666755.24 26666755.40 0.0283 0.0008

Saturn 68299-03-28 11:03 G 26666843.83 26666843.96 26666844.10 0.0283 0.0158

Jupiter 68300-05-09 19:12 G 26667251.26 26667251.30 26667251.35 0.0545 0.0514

Jupiter 68300-08-07 11:03 G 26667340.85 26667340.96 26667341.07 0.0545 0.0337

Venus 68302-04-15 04:34 G 26667956.62 26667956.69 26667956.75 0.3688 0.3027

Moon 68304-01-24 15:07 G 26668606.01 26668606.13 26668606.24 0.2634 0.1605

Earth 68304-01-24 15:51 G 26668606.05 26668606.16 26668606.27 0.2640 0.1637 *

Mars 68306-06-14 00:43 G 26669477.43 26669477.53 26669477.63 0.1883 0.1172

Jupiter 68306-06-21 10:34 G 26669484.78 26669484.94 26669485.10 0.0483 0.0094

Earth 68308-07-18 19:12 G 26670243.19 26670243.30 26670243.41 0.2695 0.0834

Moon 68308-07-18 19:55 G 26670243.22 26670243.33 26670243.45 0.2697 0.0727 *

Mars 68309-04-03 12:43 G 26670501.98 26670502.03 26670502.07 0.1632 0.1531

Venus 68309-05-12 04:05 G 26670540.54 26670540.67 26670540.80 0.3682 0.0803

Jupiter 68312-05-26 13:27 G 26671650.93 26671651.06 26671651.20 0.0545 0.0143

Saturn 68313-05-10 04:48 G 26671999.62 26671999.70 26671999.78 0.0275 0.0231

Saturn 68313-08-06 19:12 G 26672088.16 26672088.30 26672088.44 0.0275 0.0089

Saturn 68313-11-03 09:07 G 26672176.74 26672176.88 26672177.03 0.0275 0.0051

Neptune 68313-11-04 12:29 G 26672178.00 26672178.02 26672178.07 0.0089 0.0088

Saturn 68314-01-30 22:48 G 26672265.35 26672265.45 26672265.56 0.0275 0.0188

Neptune 68314-01-31 14:24 G 26672266.04 26672266.10 26672266.18 0.0089 0.0079

Neptune 68314-04-29 16:34 G 26672354.10 26672354.19 26672354.28 0.0089 0.0070

Neptune 68314-07-26 18:15 G 26672442.16 26672442.26 26672442.37 0.0089 0.0062

Neptune 68314-10-22 20:10 G 26672530.23 26672530.34 26672530.46 0.0089 0.0053

Neptune 68315-01-18 21:51 G 26672618.29 26672618.41 26672618.55 0.0089 0.0045

Neptune 68315-04-17 00:00 G 26672706.36 26672706.50 26672706.63 0.0089 0.0036

Neptune 68315-07-14 01:41 G 26672794.43 26672794.57 26672794.71 0.0089 0.0027

Neptune 68315-10-10 03:22 G 26672882.50 26672882.64 26672882.79 0.0089 0.0020

Neptune 68316-01-06 05:17 G 26672970.58 26672970.72 26672970.87 0.0089 0.0011

Neptune 68316-04-03 07:12 G 26673058.65 26673058.80 26673058.94 0.0089 0.0003

Neptune 68316-06-30 08:53 G 26673146.73 26673146.87 26673147.02 0.0089 0.0006

Neptune 68316-09-26 10:34 G 26673234.80 26673234.94 26673235.09 0.0089 0.0015

Neptune 68316-12-23 12:29 G 26673322.88 26673323.02 26673323.16 0.0089 0.0023

Neptune 68317-03-21 14:10 G 26673410.96 26673411.09 26673411.23 0.0089 0.0031

Neptune 68317-06-17 15:36 G 26673499.03 26673499.15 26673499.29 0.0089 0.0040

Neptune 68317-09-13 17:31 G 26673587.11 26673587.23 26673587.36 0.0089 0.0047

Neptune 68317-12-10 19:12 G 26673675.20 26673675.30 26673675.42 0.0089 0.0055

Neptune 68318-03-08 20:53 G 26673763.28 26673763.37 26673763.48 0.0089 0.0064

Jupiter 68318-04-09 11:46 G 26673794.83 26673794.99 26673795.15 0.0483 0.0075

Neptune 68318-06-04 22:34 G 26673851.37 26673851.44 26673851.54 0.0089 0.0072

Mars 68318-08-24 19:55 G 26673932.21 26673932.33 26673932.46 0.1635 0.0756

Neptune 68318-09-01 00:15 G 26673939.46 26673939.51 26673939.59 0.0089 0.0080

Neptune 68318-11-28 01:55 G 26674027.57 26674027.58 26674027.62 0.0089 0.0088

Earth 68321-07-21 15:22 G 26674994.02 26674994.14 26674994.26 0.2693 0.0464

Moon 68321-07-21 16:19 G 26674994.06 26674994.18 26674994.29 0.2692 0.0491 *

Earth 68324-01-19 20:10 G 26675906.22 26675906.34 26675906.46 0.2638 0.1321

Moon 68324-01-19 21:07 G 26675906.26 26675906.38 26675906.50 0.2632 0.1324 *

Jupiter 68324-03-14 15:22 G 26675961.00 26675961.14 26675961.28 0.0545 0.0064

Mars 68327-03-02 15:51 G 26677044.08 26677044.16 26677044.25 0.1890 0.1449

Mars 68328-01-15 03:07 G 26677362.49 26677362.63 26677362.78 0.1638 0.0063

Saturn 68328-02-20 00:15 G 26677398.42 26677398.51 26677398.60 0.0283 0.0225

Saturn 68328-05-18 17:03 G 26677487.06 26677487.21 26677487.36 0.0283 0.0066

Saturn 68328-08-15 10:05 G 26677575.77 26677575.92 26677576.08 0.0283 0.0097

Saturn 68328-11-12 03:36 G 26677664.60 26677664.65 26677664.71 0.0283 0.0264

Uranus 68329-12-24 10:05 G 26678071.89 26678071.92 26678071.97 0.0136 0.0129

Jupiter 68330-01-26 13:41 G 26678104.93 26678105.07 26678105.21 0.0483 0.0235

Uranus 68330-03-22 14:24 G 26678160.01 26678160.10 26678160.19 0.0136 0.0108

Jupiter 68330-04-26 06:29 G 26678194.72 26678194.77 26678194.84 0.0484 0.0447

Uranus 68330-06-18 18:15 G 26678248.16 26678248.26 26678248.38 0.0136 0.0088

Uranus 68330-09-14 22:19 G 26678336.31 26678336.43 26678336.56 0.0136 0.0067

Uranus 68330-12-12 02:24 G 26678424.46 26678424.60 26678424.74 0.0136 0.0047

Uranus 68331-03-10 06:15 G 26678512.62 26678512.76 26678512.91 0.0136 0.0027

Uranus 68331-06-06 10:19 G 26678600.78 26678600.93 26678601.07 0.0136 0.0007

Uranus 68331-09-02 14:10 G 26678688.95 26678689.09 26678689.24 0.0136 0.0014

Uranus 68331-11-29 18:00 G 26678777.11 26678777.25 26678777.39 0.0136 0.0034

Uranus 68332-02-25 21:51 G 26678865.28 26678865.41 26678865.55 0.0136 0.0054

Uranus 68332-05-24 01:41 G 26678953.45 26678953.57 26678953.69 0.0136 0.0074

Uranus 68332-08-20 05:31 G 26679041.63 26679041.73 26679041.84 0.0136 0.0093

Uranus 68332-11-16 09:07 G 26679129.81 26679129.88 26679129.97 0.0136 0.0113

Uranus 68333-02-12 12:58 G 26679218.02 26679218.04 26679218.08 0.0136 0.0133

Earth 68334-07-24 11:17 G 26679744.88 26679744.97 26679745.06 0.2692 0.1719

Moon 68334-07-24 11:46 G 26679744.90 26679744.99 26679745.07 0.2686 0.1826 *

Jupiter 68336-01-01 16:05 G 26680271.05 26680271.17 26680271.29 0.0545 0.0297

Jupiter 68336-03-31 07:12 G 26680360.79 26680360.80 26680360.82 0.0545 0.0540

Mars 68336-07-22 20:10 G 26680474.21 26680474.34 26680474.47 0.1887 0.0173

Moon 68337-01-21 20:39 G 26680657.22 26680657.36 26680657.50 0.2633 0.0353

Earth 68337-01-21 20:39 G 26680657.22 26680657.36 26680657.50 0.2639 0.0286 *

Mars 68337-06-06 10:19 G 26680792.81 26680792.93 26680793.05 0.1640 0.0861

Earth 68341-07-17 04:05 G 26682294.58 26682294.67 26682294.75 0.2695 0.1914

Moon 68341-07-17 04:19 G 26682294.60 26682294.68 26682294.76 0.2702 0.1908 *

Jupiter 68341-11-14 15:22 G 26682415.05 26682415.14 26682415.23 0.0484 0.0396

Jupiter 68342-02-12 07:55 G 26682504.70 26682504.83 26682504.97 0.0484 0.0277

Saturn 68342-09-27 07:27 G 26682731.76 26682731.81 26682731.86 0.0276 0.0260

Saturn 68342-12-24 21:51 G 26682820.27 26682820.41 26682820.55 0.0276 0.0117

Saturn 68343-03-23 12:00 G 26682908.85 26682909.00 26682909.15 0.0276 0.0025

Saturn 68343-06-20 01:41 G 26682997.45 26682997.57 26682997.69 0.0276 0.0162

Mars 68345-12-13 00:58 G 26683904.43 26683904.54 26683904.65 0.1883 0.1025

Jupiter 68347-10-20 17:17 G 26684581.18 26684581.22 26684581.27 0.0545 0.0516

Venus 68347-10-21 14:53 G 26684582.03 26684582.12 26684582.21 0.3690 0.2113

Jupiter 68348-01-18 09:07 G 26684670.77 26684670.88 26684670.99 0.0545 0.0334

Moon 68350-01-24 20:39 G 26685408.26 26685408.36 26685408.47 0.2635 0.1795

Earth 68350-01-24 21:36 G 26685408.31 26685408.40 26685408.49 0.2640 0.1948 *

Venus 68353-05-06 08:39 G 26686605.76 26686605.86 26686605.97 0.3689 0.1082

Jupiter 68353-12-01 09:07 G 26686814.72 26686814.88 26686815.04 0.0483 0.0104

Earth 68354-07-20 00:15 G 26687045.40 26687045.51 26687045.63 0.2694 0.0593

Moon 68354-07-20 01:12 G 26687045.43 26687045.55 26687045.67 0.2696 0.0495 *

Earth 68357-01-17 01:41 G 26687957.55 26687957.57 26687957.60 0.2637 0.2577

Moon 68357-01-17 02:53 G 26687957.57 26687957.62 26687957.66 0.2634 0.2486 *

Saturn 68357-07-09 01:55 G 26688130.52 26688130.58 26688130.64 0.0283 0.0260

Saturn 68357-10-05 18:29 G 26688219.12 26688219.27 26688219.42 0.0283 0.0103

Saturn 68358-01-02 11:31 G 26688307.82 26688307.98 26688308.14 0.0283 0.0059

Mars 68358-02-22 20:24 G 26688359.23 26688359.35 26688359.47 0.1635 0.0880

Saturn 68358-04-01 04:48 G 26688396.61 26688396.70 26688396.80 0.0283 0.0225

Jupiter 68359-11-06 11:17 G 26688980.84 26688980.97 26688981.11 0.0545 0.0135

Venus 68360-06-02 04:05 G 26689189.57 26689189.67 26689189.76 0.3681 0.2352

Jupiter 68365-09-19 10:34 G 26691124.78 26691124.94 26691125.10 0.0483 0.0062

Venus 68365-12-17 03:36 G 26691213.56 26691213.65 26691213.74 0.3682 0.2576

Mars 68366-08-31 16:05 G 26691471.10 26691471.17 26691471.24 0.1890 0.1583

Mars 68367-07-16 03:36 G 26691789.51 26691789.65 26691789.79 0.1637 0.0091

Earth 68367-07-22 20:24 G 26691796.24 26691796.35 26691796.47 0.2693 0.0702

Moon 68367-07-22 21:22 G 26691796.27 26691796.39 26691796.50 0.2691 0.0844 *

Earth 68370-01-20 01:55 G 26692708.45 26692708.58 26692708.71 0.2638 0.1028

Moon 68370-01-20 02:39 G 26692708.48 26692708.61 26692708.74 0.2632 0.0887 *

Uranus 68371-01-06 12:15 G 26693059.93 26693060.01 26693060.11 0.0143 0.0118

Uranus 68371-04-04 18:15 G 26693148.14 26693148.26 26693148.40 0.0142 0.0092

Uranus 68371-07-02 00:15 G 26693236.37 26693236.51 26693236.67 0.0142 0.0066

Jupiter 68371-08-25 13:41 G 26693290.93 26693291.07 26693291.21 0.0545 0.0063

Uranus 68371-09-28 06:29 G 26693324.61 26693324.77 26693324.94 0.0142 0.0039

Uranus 68371-12-25 12:43 G 26693412.86 26693413.03 26693413.20 0.0142 0.0012

Uranus 68372-03-22 18:58 G 26693501.12 26693501.29 26693501.46 0.0142 0.0016

Saturn 68372-05-12 22:05 G 26693552.30 26693552.42 26693552.54 0.0275 0.0168

Uranus 68372-06-19 01:12 G 26693589.39 26693589.55 26693589.72 0.0142 0.0043

Saturn 68372-08-09 12:15 G 26693640.86 26693641.01 26693641.16 0.0275 0.0028

Uranus 68372-09-15 07:27 G 26693677.67 26693677.81 26693677.96 0.0142 0.0070

Saturn 68372-11-06 02:10 G 26693729.46 26693729.59 26693729.73 0.0276 0.0112

Uranus 68372-12-12 13:41 G 26693765.95 26693766.07 26693766.20 0.0142 0.0098

Saturn 68373-02-02 15:36 G 26693818.10 26693818.15 26693818.22 0.0276 0.0248

Uranus 68373-03-10 20:10 G 26693854.27 26693854.34 26693854.42 0.0142 0.0125

Mars 68376-01-21 20:24 G 26694901.22 26694901.35 26694901.48 0.1887 0.0324

Mars 68376-12-05 10:34 G 26695219.81 26695219.94 26695220.06 0.1641 0.0738

Jupiter 68377-07-08 12:00 G 26695434.86 26695435.00 26695435.14 0.0483 0.0229

Jupiter 68377-10-06 04:48 G 26695524.65 26695524.70 26695524.76 0.0483 0.0451

Earth 68380-07-24 16:19 G 26696547.10 26696547.18 26696547.26 0.2692 0.1957

Moon 68380-07-24 16:48 G 26696547.11 26696547.20 26696547.28 0.2685 0.1914 *

Moon 68383-01-23 02:10 G 26697459.45 26697459.59 26697459.73 0.2632 0.0468

Earth 68383-01-23 02:24 G 26697459.47 26697459.60 26697459.74 0.2639 0.0595 *

Jupiter 68383-06-13 15:22 G 26697601.02 26697601.14 26697601.27 0.0545 0.0272

Mars 68385-06-13 00:58 G 26698331.43 26698331.54 26698331.65 0.1882 0.0902

Mars 68386-04-27 17:03 G 26698650.18 26698650.21 26698650.25 0.1644 0.1578

Saturn 68387-02-22 17:31 G 26698951.11 26698951.23 26698951.37 0.0283 0.0162

Saturn 68387-05-22 10:34 G 26699039.78 26699039.94 26699040.10 0.0283 0.0005

Earth 68387-07-18 09:07 G 26699096.79 26699096.88 26699096.98 0.2695 0.1663

Moon 68387-07-18 09:36 G 26699096.80 26699096.90 26699097.00 0.2701 0.1571 *

Saturn 68387-08-19 03:51 G 26699128.53 26699128.66 26699128.79 0.0283 0.0163

Jupiter 68389-04-26 13:55 G 26699744.98 26699745.08 26699745.17 0.0483 0.0388

Jupiter 68389-07-25 06:15 G 26699834.63 26699834.76 26699834.90 0.0483 0.0285

Jupiter 68395-04-01 16:05 G 26701911.12 26701911.17 26701911.22 0.0545 0.0506

Jupiter 68395-06-30 07:41 G 26702000.72 26702000.82 26702000.93 0.0545 0.0343

Moon 68396-01-26 02:24 G 26702210.53 26702210.60 26702210.68 0.2636 0.2249

Earth 68396-01-26 03:36 G 26702210.58 26702210.65 26702210.72 0.2640 0.2270 *

Neptune 68397-01-09 23:31 G 26702560.48 26702560.48 26702560.50 0.0088 0.0088

Neptune 68397-04-08 01:55 G 26702648.52 26702648.58 26702648.67 0.0088 0.0079

Neptune 68397-07-05 04:34 G 26702736.60 26702736.69 26702736.80 0.0088 0.0070

Mars 68397-08-23 20:39 G 26702786.25 26702786.36 26702786.47 0.1635 0.1009

Neptune 68397-10-01 06:58 G 26702824.68 26702824.79 26702824.92 0.0088 0.0061

Neptune 68397-12-28 09:36 G 26702912.77 26702912.90 26702913.04 0.0088 0.0052

Neptune 68398-03-26 12:00 G 26703000.86 26703001.00 26703001.15 0.0088 0.0043

Neptune 68398-06-22 14:39 G 26703088.96 26703089.11 26703089.27 0.0088 0.0034

Neptune 68398-09-18 17:03 G 26703177.05 26703177.21 26703177.38 0.0088 0.0025

Neptune 68398-12-15 19:41 G 26703265.16 26703265.32 26703265.49 0.0088 0.0016

Neptune 68399-03-13 22:19 G 26703353.26 26703353.43 26703353.60 0.0088 0.0007

Neptune 68399-06-10 00:58 G 26703441.37 26703441.54 26703441.71 0.0088 0.0003

Neptune 68399-09-06 03:22 G 26703529.47 26703529.64 26703529.81 0.0088 0.0012

Neptune 68399-12-03 06:00 G 26703617.58 26703617.75 26703617.92 0.0088 0.0021

Neptune 68400-02-29 08:24 G 26703705.70 26703705.85 26703706.02 0.0088 0.0031

Neptune 68400-05-27 11:03 G 26703793.82 26703793.96 26703794.12 0.0088 0.0040

Earth 68400-07-20 05:31 G 26703847.61 26703847.73 26703847.85 0.2694 0.0342

Moon 68400-07-20 06:29 G 26703847.65 26703847.77 26703847.89 0.2696 0.0265 *

Neptune 68400-08-23 13:55 G 26703881.94 26703882.08 26703882.22 0.0088 0.0049

Neptune 68400-11-19 16:05 G 26703970.06 26703970.17 26703970.31 0.0088 0.0059

Neptune 68401-02-15 18:58 G 26704058.19 26704058.29 26704058.41 0.0088 0.0068

Jupiter 68401-05-13 07:41 G 26704144.66 26704144.82 26704144.98 0.0484 0.0116

Neptune 68401-05-14 21:22 G 26704146.33 26704146.39 26704146.49 0.0088 0.0078

Neptune 68401-08-11 00:15 G 26704234.50 26704234.51 26704234.54 0.0088 0.0087

Saturn 68401-09-30 00:43 G 26704284.42 26704284.53 26704284.63 0.0276 0.0198

Saturn 68401-12-27 14:53 G 26704372.98 26704373.12 26704373.27 0.0276 0.0055

Saturn 68402-03-26 04:48 G 26704461.57 26704461.70 26704461.85 0.0276 0.0085

Saturn 68402-06-22 18:43 G 26704550.19 26704550.28 26704550.36 0.0276 0.0222

Earth 68403-01-18 07:27 G 26704759.74 26704759.81 26704759.87 0.2637 0.2289

Moon 68403-01-18 08:24 G 26704759.78 26704759.85 26704759.93 0.2633 0.2190 *

Venus 68404-05-27 12:43 G 26705254.93 26705255.03 26705255.14 0.3690 0.0925

Mars 68406-03-01 16:19 G 26705898.13 26705898.18 26705898.23 0.1891 0.1738

Mars 68407-01-14 03:51 G 26706216.52 26706216.66 26706216.80 0.1637 0.0212

Jupiter 68407-04-18 09:22 G 26706310.76 26706310.89 26706311.03 0.0545 0.0132

Venus 68409-12-11 06:43 G 26707278.69 26707278.78 26707278.87 0.3688 0.2255

Jupiter 68413-03-01 08:53 G 26708454.71 26708454.87 26708455.03 0.0483 0.0056

Earth 68413-07-23 01:41 G 26708598.45 26708598.57 26708598.68 0.2693 0.0948

Moon 68413-07-23 02:10 G 26708598.48 26708598.59 26708598.71 0.2690 0.0995 *

Uranus 68414-01-13 17:17 G 26708773.17 26708773.22 26708773.29 0.0136 0.0123

Uranus 68414-04-11 21:07 G 26708861.30 26708861.38 26708861.49 0.0136 0.0103

Uranus 68414-07-09 01:27 G 26708949.45 26708949.56 26708949.68 0.0136 0.0082

Uranus 68414-10-05 05:31 G 26709037.60 26709037.73 26709037.86 0.0136 0.0061

Uranus 68415-01-01 09:22 G 26709125.76 26709125.89 26709126.04 0.0136 0.0041

Uranus 68415-03-30 13:27 G 26709213.92 26709214.06 26709214.21 0.0136 0.0021

Uranus 68415-06-26 17:17 G 26709302.08 26709302.22 26709302.37 0.0136 0.0004

Mars 68415-07-22 20:39 G 26709328.23 26709328.36 26709328.48 0.1886 0.0465

Uranus 68415-09-22 21:22 G 26709390.24 26709390.39 26709390.53 0.0136 0.0020

Uranus 68415-12-20 01:12 G 26709478.41 26709478.55 26709478.69 0.0136 0.0040

Earth 68416-01-21 07:41 G 26709510.69 26709510.82 26709510.95 0.2638 0.0726

Moon 68416-01-21 08:10 G 26709510.70 26709510.84 26709510.97 0.2632 0.0722 *

Uranus 68416-03-17 05:03 G 26709566.58 26709566.71 26709566.84 0.0136 0.0060

Mars 68416-06-05 10:48 G 26709646.82 26709646.95 26709647.08 0.1640 0.0605

Uranus 68416-06-13 08:53 G 26709654.75 26709654.87 26709654.99 0.0136 0.0079

Saturn 68416-07-11 19:41 G 26709683.21 26709683.32 26709683.44 0.0283 0.0193

Uranus 68416-09-09 12:29 G 26709742.93 26709743.02 26709743.13 0.0136 0.0100

Saturn 68416-10-08 12:43 G 26709771.87 26709772.03 26709772.18 0.0283 0.0034

Uranus 68416-12-06 16:19 G 26709831.12 26709831.18 26709831.26 0.0136 0.0119

Saturn 68417-01-05 05:46 G 26709860.60 26709860.74 26709860.88 0.0283 0.0130

Venus 68417-01-07 03:22 G 26709862.51 26709862.64 26709862.77 0.3681 0.0623

Jupiter 68419-02-04 11:17 G 26710620.83 26710620.97 26710621.11 0.0545 0.0075

Moon 68420-07-15 17:46 G 26711148.24 26711148.24 26711148.24 0.2703 0.2702

Mars 68424-12-12 01:12 G 26712758.43 26712758.55 26712758.67 0.1883 0.0760

Jupiter 68424-12-18 10:34 G 26712764.80 26712764.94 26712765.08 0.0483 0.0219

Jupiter 68425-03-18 03:22 G 26712854.60 26712854.64 26712854.69 0.0483 0.0461

Mars 68425-10-26 17:31 G 26713077.16 26713077.23 26713077.29 0.1644 0.1444

Earth 68426-07-25 21:22 G 26713349.33 26713349.39 26713349.46 0.2692 0.2188

Moon 68426-07-25 21:51 G 26713349.34 26713349.41 26713349.47 0.2685 0.2269 *

Moon 68429-01-23 07:55 G 26714261.70 26714261.83 26714261.96 0.2632 0.0935

Earth 68429-01-23 08:24 G 26714261.71 26714261.85 26714261.98 0.2639 0.0901 *

Jupiter 68430-11-23 13:27 G 26714930.94 26714931.06 26714931.18 0.0545 0.0276

Saturn 68431-02-17 01:12 G 26715016.49 26715016.55 26715016.62 0.0276 0.0246

Saturn 68431-05-16 15:36 G 26715105.01 26715105.15 26715105.29 0.0276 0.0103

Saturn 68431-08-13 05:46 G 26715193.59 26715193.74 26715193.89 0.0276 0.0037

Saturn 68431-11-09 19:27 G 26715282.20 26715282.31 26715282.43 0.0276 0.0175

Earth 68433-07-18 14:24 G 26715899.00 26715899.10 26715899.20 0.2695 0.1408

Moon 68433-07-18 15:07 G 26715899.02 26715899.13 26715899.23 0.2699 0.1409 *

Jupiter 68436-10-06 12:00 G 26717074.91 26717075.00 26717075.10 0.0483 0.0384

Jupiter 68437-01-04 04:19 G 26717164.56 26717164.68 26717164.82 0.0483 0.0287

Mars 68437-02-21 20:53 G 26717213.27 26717213.37 26717213.47 0.1635 0.1129

Moon 68442-01-26 08:10 G 26719012.78 26719012.84 26719012.90 0.2638 0.2378

Earth 68442-01-26 09:22 G 26719012.86 26719012.89 26719012.91 0.2640 0.2586 *

Jupiter 68442-09-11 15:07 G 26719241.07 26719241.13 26719241.20 0.0545 0.0486

Jupiter 68442-12-10 06:58 G 26719330.69 26719330.79 26719330.89 0.0545 0.0364

Mars 68445-08-30 16:19 G 26720325.16 26720325.18 26720325.20 0.1890 0.1863

Saturn 68445-11-28 19:12 G 26720415.23 26720415.30 26720415.37 0.0283 0.0250

Pluto 68446-01-24 18:29 G 26720472.24 26720472.27 26720472.34 0.0065 0.0061

Saturn 68446-02-25 11:46 G 26720503.84 26720503.99 26720504.14 0.0283 0.0093

Pluto 68446-04-22 19:27 G 26720560.22 26720560.31 26720560.41 0.0065 0.0050

Saturn 68446-05-25 04:48 G 26720592.54 26720592.70 26720592.86 0.0283 0.0069

Mars 68446-07-15 04:05 G 26720643.53 26720643.67 26720643.81 0.1638 0.0338

Pluto 68446-07-19 19:55 G 26720648.22 26720648.33 26720648.46 0.0065 0.0040

Earth 68446-07-21 10:34 G 26720649.82 26720649.94 26720650.06 0.2694 0.0120

Moon 68446-07-21 11:31 G 26720649.86 26720649.98 26720650.10 0.2695 0.0026 *

Saturn 68446-08-21 22:05 G 26720681.34 26720681.42 26720681.51 0.0283 0.0234

Pluto 68446-10-15 20:39 G 26720736.24 26720736.36 26720736.51 0.0065 0.0029

Pluto 68447-01-11 21:36 G 26720824.26 26720824.40 26720824.55 0.0065 0.0018

Pluto 68447-04-09 22:19 G 26720912.28 26720912.43 26720912.58 0.0065 0.0007

Pluto 68447-07-06 23:03 G 26721000.31 26721000.46 26721000.61 0.0065 0.0003

Pluto 68447-10-02 23:46 G 26721088.34 26721088.49 26721088.64 0.0065 0.0014

Pluto 68447-12-30 00:15 G 26721176.38 26721176.51 26721176.66 0.0065 0.0026

Pluto 68448-03-27 01:12 G 26721264.43 26721264.55 26721264.68 0.0065 0.0036

Pluto 68448-06-23 01:55 G 26721352.48 26721352.58 26721352.69 0.0066 0.0047

Pluto 68448-09-19 02:24 G 26721440.54 26721440.60 26721440.68 0.0066 0.0058

Jupiter 68448-10-23 06:00 G 26721474.59 26721474.75 26721474.91 0.0483 0.0121

Earth 68449-01-18 12:58 G 26721561.96 26721562.04 26721562.13 0.2637 0.2006

Moon 68449-01-18 14:10 G 26721561.99 26721562.09 26721562.19 0.2633 0.1873 *

Jupiter 68454-09-28 08:10 G 26723640.70 26723640.84 26723640.97 0.0545 0.0141

Uranus 68454-10-30 13:27 G 26723673.02 26723673.06 26723673.10 0.0143 0.0137

Mars 68455-01-20 20:39 G 26723755.23 26723755.36 26723755.48 0.1887 0.0593

Uranus 68455-01-26 19:27 G 26723761.20 26723761.31 26723761.41 0.0142 0.0111

Uranus 68455-04-25 01:12 G 26723849.42 26723849.55 26723849.69 0.0142 0.0085

Venus 68455-06-18 16:48 G 26723904.14 26723904.20 26723904.27 0.3690 0.2962

Uranus 68455-07-22 07:12 G 26723937.66 26723937.80 26723937.97 0.0142 0.0059

Uranus 68455-10-18 13:41 G 26724025.90 26724026.07 26724026.23 0.0142 0.0031

Mars 68455-12-05 11:17 G 26724073.83 26724073.97 26724074.10 0.1640 0.0469

Uranus 68456-01-14 19:41 G 26724114.15 26724114.32 26724114.49 0.0142 0.0005

Uranus 68456-04-12 01:55 G 26724202.41 26724202.58 26724202.75 0.0142 0.0023

Uranus 68456-07-09 07:55 G 26724290.68 26724290.83 26724291.00 0.0142 0.0051

Uranus 68456-10-05 14:24 G 26724378.96 26724379.10 26724379.25 0.0142 0.0077

Uranus 68457-01-01 20:39 G 26724467.25 26724467.36 26724467.48 0.0142 0.0105

Uranus 68457-03-31 03:07 G 26724555.58 26724555.63 26724555.69 0.0142 0.0132

Earth 68459-07-24 06:43 G 26725400.67 26725400.78 26725400.89 0.2693 0.1181

Moon 68459-07-24 07:12 G 26725400.70 26725400.80 26725400.91 0.2688 0.1247 *

Jupiter 68460-08-11 07:27 G 26725784.65 26725784.81 26725784.97 0.0484 0.0047

Saturn 68460-10-02 18:00 G 26725837.12 26725837.25 26725837.38 0.0276 0.0134

Saturn 68460-12-30 08:10 G 26725925.70 26725925.84 26725925.99 0.0276 0.0011

Venus 68461-01-01 10:48 G 26725927.84 26725927.95 26725928.06 0.3689 0.0292

Saturn 68461-03-28 22:05 G 26726014.30 26726014.42 26726014.55 0.0276 0.0147

Earth 68462-01-21 13:27 G 26726312.92 26726313.06 26726313.19 0.2638 0.0432

Moon 68462-01-21 13:41 G 26726312.93 26726313.07 26726313.20 0.2632 0.0407 *

Mars 68464-06-12 01:27 G 26727185.43 26727185.56 26727185.68 0.1882 0.0613

Mars 68465-04-26 17:46 G 26727504.16 26727504.24 26727504.33 0.1644 0.1313

Earth 68466-07-16 23:03 G 26727950.42 26727950.46 26727950.50 0.2696 0.2508

Moon 68466-07-16 23:03 G 26727950.43 26727950.46 26727950.49 0.2703 0.2585 *

Jupiter 68466-07-17 09:36 G 26727950.76 26727950.90 26727951.04 0.0545 0.0078

Venus 68466-07-18 04:48 G 26727951.66 26727951.70 26727951.73 0.3688 0.3421

Jupiter 68472-05-30 08:39 G 26730094.72 26730094.86 26730095.01 0.0483 0.0216

Moon 68472-07-26 02:39 G 26730151.56 26730151.61 26730151.67 0.2686 0.2387

Earth 68472-07-26 02:39 G 26730151.56 26730151.61 26730151.66 0.2692 0.2422 *

Jupiter 68472-08-28 01:41 G 26730184.53 26730184.57 26730184.61 0.0483 0.0464

Venus 68473-08-14 02:53 G 26730535.50 26730535.62 26730535.75 0.3682 0.1132

Mars 68473-11-02 06:15 G 26730615.73 26730615.76 26730615.80 0.1878 0.1796

Moon 68475-01-24 13:41 G 26731063.94 26731064.07 26731064.20 0.2633 0.1093

Earth 68475-01-24 14:10 G 26731063.96 26731064.09 26731064.21 0.2639 0.1211 *

Saturn 68475-04-17 21:51 G 26731147.38 26731147.41 26731147.44 0.0283 0.0276

Saturn 68475-07-15 14:24 G 26731235.96 26731236.10 26731236.24 0.0283 0.0119

Saturn 68475-10-12 07:12 G 26731324.65 26731324.80 26731324.96 0.0283 0.0042

Saturn 68476-01-09 00:29 G 26731413.42 26731413.52 26731413.63 0.0283 0.0206

Mars 68476-08-22 21:07 G 26731640.29 26731640.38 26731640.47 0.1635 0.1249

Jupiter 68478-05-05 11:03 G 26732260.84 26732260.96 26732261.08 0.0545 0.0289

Neptune 68478-08-01 12:00 G 26732348.95 26732349.00 26732349.07 0.0089 0.0082

Neptune 68478-10-28 13:55 G 26732437.01 26732437.08 26732437.17 0.0089 0.0074

Neptune 68479-01-24 15:36 G 26732525.07 26732525.15 26732525.27 0.0089 0.0066

Neptune 68479-04-22 17:46 G 26732613.13 26732613.24 26732613.36 0.0089 0.0056

Neptune 68479-07-19 19:41 G 26732701.20 26732701.32 26732701.45 0.0089 0.0048

Earth 68479-07-19 19:27 G 26732701.21 26732701.31 26732701.42 0.2695 0.1165 *

Moon 68479-07-19 20:10 G 26732701.23 26732701.34 26732701.46 0.2699 0.1011 *

Neptune 68479-10-15 21:22 G 26732789.27 26732789.39 26732789.53 0.0089 0.0040

Neptune 68480-01-11 23:17 G 26732877.34 26732877.47 26732877.61 0.0089 0.0031

Neptune 68480-04-09 01:12 G 26732965.41 26732965.55 26732965.69 0.0089 0.0022

Neptune 68480-07-06 02:53 G 26733053.48 26733053.62 26733053.77 0.0089 0.0015

Neptune 68480-10-02 04:48 G 26733141.55 26733141.70 26733141.85 0.0089 0.0006

Neptune 68480-12-29 06:43 G 26733229.63 26733229.78 26733229.92 0.0089 0.0004

Neptune 68481-03-27 08:24 G 26733317.71 26733317.85 26733318.00 0.0089 0.0011

Neptune 68481-06-23 10:05 G 26733405.78 26733405.92 26733406.07 0.0089 0.0019

Neptune 68481-09-19 11:46 G 26733493.86 26733493.99 26733494.14 0.0089 0.0028

Neptune 68481-12-16 13:41 G 26733581.94 26733582.07 26733582.20 0.0089 0.0036

Neptune 68482-03-14 15:07 G 26733670.02 26733670.13 26733670.27 0.0089 0.0045

Neptune 68482-06-10 17:03 G 26733758.10 26733758.21 26733758.33 0.0089 0.0052

Neptune 68482-09-06 18:43 G 26733846.18 26733846.28 26733846.40 0.0089 0.0060

Neptune 68482-12-03 20:24 G 26733934.27 26733934.35 26733934.45 0.0089 0.0069

Neptune 68483-03-01 22:05 G 26734022.36 26734022.42 26734022.51 0.0089 0.0077

Neptune 68483-05-28 23:46 G 26734110.46 26734110.49 26734110.55 0.0089 0.0085

Jupiter 68484-03-18 10:34 G 26734404.84 26734404.94 26734405.04 0.0483 0.0377

Jupiter 68484-06-16 02:53 G 26734494.49 26734494.62 26734494.75 0.0483 0.0294

Mars 68486-01-13 04:19 G 26735070.55 26735070.68 26735070.82 0.1637 0.0469

Saturn 68490-02-19 19:12 G 26736569.18 26736569.30 26736569.41 0.0276 0.0178

Jupiter 68490-02-21 12:58 G 26736570.98 26736571.04 26736571.10 0.0545 0.0494

Saturn 68490-05-19 09:22 G 26736657.74 26736657.89 26736658.04 0.0276 0.0036

Jupiter 68490-05-22 04:48 G 26736660.60 26736660.70 26736660.81 0.0545 0.0358

Saturn 68490-08-15 23:17 G 26736746.34 26736746.47 26736746.61 0.0276 0.0103

Saturn 68490-11-12 12:58 G 26736834.97 26736835.04 26736835.12 0.0276 0.0239

Earth 68492-07-21 15:51 G 26737452.04 26737452.16 26737452.28 0.2694 0.0156

Moon 68492-07-21 16:34 G 26737452.07 26737452.19 26737452.31 0.2694 0.0211 *

Mars 68494-07-21 20:53 G 26738182.25 26738182.37 26738182.49 0.1887 0.0738

Earth 68495-01-19 18:43 G 26738364.18 26738364.28 26738364.39 0.2637 0.1710

Moon 68495-01-19 19:41 G 26738364.22 26738364.32 26738364.43 0.2633 0.1657 *

Mars 68495-06-05 11:31 G 26738500.84 26738500.98 26738501.11 0.1641 0.0348

Jupiter 68496-04-04 04:05 G 26738804.51 26738804.67 26738804.82 0.0483 0.0122

Uranus 68498-02-03 00:15 G 26739474.45 26739474.51 26739474.60 0.0136 0.0117

Uranus 68498-05-02 04:34 G 26739562.59 26739562.69 26739562.79 0.0136 0.0096

Uranus 68498-07-29 08:24 G 26739650.74 26739650.85 26739650.98 0.0136 0.0076

Uranus 68498-10-25 12:29 G 26739738.89 26739739.02 26739739.16 0.0136 0.0055

Uranus 68499-01-21 16:34 G 26739827.05 26739827.19 26739827.33 0.0136 0.0035

Uranus 68499-04-19 20:39 G 26739915.21 26739915.36 26739915.50 0.0136 0.0014

Uranus 68499-07-17 00:29 G 26740003.38 26740003.52 26740003.67 0.0136 0.0006

Uranus 68499-10-13 04:19 G 26740091.54 26740091.68 26740091.83 0.0136 0.0026

Uranus 68500-01-09 08:10 G 26740179.71 26740179.84 26740179.98 0.0136 0.0047

Uranus 68500-04-07 12:00 G 26740267.88 26740268.00 26740268.14 0.0136 0.0067

Uranus 68500-07-04 15:51 G 26740356.06 26740356.16 26740356.28 0.0136 0.0086

Uranus 68500-09-30 19:55 G 26740444.24 26740444.33 26740444.42 0.0136 0.0106

Uranus 68500-12-27 23:31 G 26740532.43 26740532.48 26740532.54 0.0136 0.0125

Jupiter 68502-03-11 06:58 G 26740970.66 26740970.79 26740970.93 0.0545 0.0156

Mars 68503-12-13 01:27 G 26741612.43 26741612.56 26741612.68 0.1882 0.0496

Mars 68504-10-26 18:15 G 26741931.16 26741931.26 26741931.36 0.1644 0.1175

Saturn 68504-12-02 13:41 G 26741967.95 26741968.07 26741968.19 0.0283 0.0178

Saturn 68505-03-01 06:29 G 26742056.61 26742056.77 26742056.93 0.0283 0.0019

Saturn 68505-05-28 23:31 G 26742145.34 26742145.48 26742145.62 0.0283 0.0144

Earth 68505-07-25 11:46 G 26742202.89 26742202.99 26742203.09 0.2693 0.1424

Moon 68505-07-25 12:29 G 26742202.92 26742203.02 26742203.12 0.2687 0.1498 *

Jupiter 68508-01-23 05:31 G 26743114.57 26743114.73 26743114.90 0.0483 0.0045

Moon 68508-01-23 19:12 G 26743115.16 26743115.30 26743115.44 0.2631 0.0108

Earth 68508-01-23 19:12 G 26743115.16 26743115.30 26743115.44 0.2638 0.0136 *

Venus 68512-01-24 14:53 G 26744577.02 26744577.12 26744577.22 0.3690 0.1734

Earth 68512-07-18 04:19 G 26744752.61 26744752.68 26744752.74 0.2696 0.2254

Moon 68512-07-18 04:34 G 26744752.62 26744752.69 26744752.76 0.2702 0.2180 *

Mars 68513-05-04 06:29 G 26745042.71 26745042.77 26745042.83 0.1878 0.1656

Jupiter 68513-12-28 08:10 G 26745280.70 26745280.84 26745280.98 0.0545 0.0071

Mars 68516-02-22 21:36 G 26746067.33 26746067.40 26746067.47 0.1635 0.1379

Venus 68517-08-09 08:53 G 26746600.77 26746600.87 26746600.97 0.3689 0.1479

Moon 68518-07-28 07:27 G 26746953.80 26746953.81 26746953.83 0.2685 0.2650

Earth 68518-07-28 07:41 G 26746953.80 26746953.82 26746953.84 0.2692 0.2652 *

Saturn 68519-07-10 21:22 G 26747301.29 26747301.39 26747301.48 0.0277 0.0211

Saturn 68519-10-07 11:46 G 26747389.84 26747389.99 26747390.13 0.0277 0.0068

Jupiter 68519-11-11 06:58 G 26747424.65 26747424.79 26747424.94 0.0484 0.0210

Saturn 68520-01-04 01:41 G 26747478.43 26747478.57 26747478.72 0.0277 0.0074

Jupiter 68520-02-09 00:00 G 26747514.47 26747514.50 26747514.53 0.0484 0.0472

Saturn 68520-04-01 15:36 G 26747567.06 26747567.15 26747567.24 0.0277 0.0211

Moon 68521-01-25 19:12 G 26747866.18 26747866.30 26747866.41 0.2634 0.1474

Earth 68521-01-25 19:55 G 26747866.21 26747866.33 26747866.44 0.2639 0.1515 *

Venus 68524-09-05 02:53 G 26749184.52 26749184.62 26749184.73 0.3681 0.1990

Mars 68525-07-15 04:48 G 26749497.57 26749497.70 26749497.83 0.1637 0.0592

Earth 68525-07-21 00:43 G 26749503.41 26749503.53 26749503.64 0.2695 0.0912

Moon 68525-07-21 01:27 G 26749503.45 26749503.56 26749503.67 0.2699 0.0908 *

Jupiter 68525-10-16 09:22 G 26749590.77 26749590.89 26749591.01 0.0545 0.0289

Venus 68530-03-22 02:24 G 26751208.52 26751208.60 26751208.68 0.3682 0.2892

Jupiter 68531-08-30 08:24 G 26751734.76 26751734.85 26751734.95 0.0483 0.0376

Jupiter 68531-11-28 00:43 G 26751824.41 26751824.53 26751824.66 0.0483 0.0296

Mars 68534-01-20 21:07 G 26752609.26 26752609.38 26752609.49 0.1886 0.0884

Saturn 68534-04-21 16:48 G 26752700.09 26752700.20 26752700.31 0.0283 0.0201

Saturn 68534-07-19 09:22 G 26752788.74 26752788.89 26752789.05 0.0283 0.0043

Saturn 68534-10-16 02:24 G 26752877.46 26752877.60 26752877.75 0.0283 0.0120

Pluto 68534-10-16 07:55 G 26752877.74 26752877.83 26752877.95 0.0079 0.0060 *

Mars 68534-12-05 11:46 G 26752927.85 26752927.99 26752928.13 0.1640 0.0214

Pluto 68535-01-12 09:51 G 26752965.77 26752965.91 26752966.06 0.0079 0.0039

Pluto 68535-04-10 11:46 G 26753053.83 26753053.99 26753054.16 0.0079 0.0018

Pluto 68535-07-07 13:41 G 26753141.91 26753142.07 26753142.24 0.0079 0.0004

Pluto 68535-10-03 15:22 G 26753229.99 26753230.14 26753230.31 0.0079 0.0025

Pluto 68535-12-30 17:03 G 26753318.09 26753318.21 26753318.36 0.0078 0.0046

Pluto 68536-03-27 18:43 G 26753406.21 26753406.28 26753406.39 0.0078 0.0067

Jupiter 68537-08-04 10:34 G 26753900.89 26753900.94 26753900.99 0.0545 0.0509

Jupiter 68537-11-02 02:24 G 26753990.50 26753990.60 26753990.71 0.0545 0.0344

Earth 68538-07-23 20:53 G 26754254.25 26754254.37 26754254.49 0.2694 0.0390

Moon 68538-07-23 21:36 G 26754254.29 26754254.40 26754254.52 0.2692 0.0554 *

Uranus 68538-11-20 19:55 G 26754374.28 26754374.33 26754374.41 0.0142 0.0131

Uranus 68539-02-17 01:55 G 26754462.48 26754462.58 26754462.71 0.0142 0.0105

Uranus 68539-05-16 08:10 G 26754550.71 26754550.84 26754550.98 0.0142 0.0078

Uranus 68539-08-12 14:10 G 26754638.94 26754639.09 26754639.25 0.0142 0.0052

Uranus 68539-11-08 20:24 G 26754727.19 26754727.35 26754727.52 0.0142 0.0025

Uranus 68540-02-05 02:39 G 26754815.44 26754815.61 26754815.78 0.0142 0.0002

Uranus 68540-05-03 08:53 G 26754903.70 26754903.87 26754904.03 0.0142 0.0029

Uranus 68540-07-30 15:07 G 26754991.97 26754992.13 26754992.28 0.0142 0.0056

Uranus 68540-10-26 21:07 G 26755080.25 26755080.38 26755080.53 0.0142 0.0084

Earth 68541-01-21 00:29 G 26755166.40 26755166.52 26755166.63 0.2637 0.1423

Moon 68541-01-21 01:12 G 26755166.43 26755166.55 26755166.67 0.2632 0.1283 *

Uranus 68541-01-23 03:36 G 26755168.55 26755168.65 26755168.76 0.0142 0.0111

Uranus 68541-04-21 09:51 G 26755256.89 26755256.91 26755256.95 0.0142 0.0139

Mars 68543-06-13 01:27 G 26756039.44 26756039.56 26756039.69 0.1882 0.0356

Jupiter 68543-09-16 02:24 G 26756134.44 26756134.60 26756134.75 0.0483 0.0128

Mars 68544-04-26 18:29 G 26756358.16 26756358.27 26756358.38 0.1644 0.1048

Saturn 68548-11-26 22:34 G 26758033.39 26758033.44 26758033.50 0.0276 0.0252

Saturn 68549-02-23 13:12 G 26758121.91 26758122.05 26758122.19 0.0276 0.0109

Saturn 68549-05-23 03:22 G 26758210.49 26758210.64 26758210.79 0.0276 0.0032

Saturn 68549-08-19 17:03 G 26758299.10 26758299.21 26758299.33 0.0276 0.0170

Jupiter 68549-08-21 04:48 G 26758300.56 26758300.70 26758300.83 0.0545 0.0146

Earth 68551-07-26 17:03 G 26759005.11 26759005.21 26759005.30 0.2693 0.1659

Moon 68551-07-26 17:31 G 26759005.14 26759005.23 26759005.32 0.2687 0.1680 *

Mars 68552-11-02 06:29 G 26759469.70 26759469.77 26759469.85 0.1878 0.1526

Moon 68554-01-24 00:58 G 26759917.39 26759917.54 26759917.68 0.2631 0.0164

Earth 68554-01-24 00:43 G 26759917.40 26759917.53 26759917.67 0.2638 0.0189 *

Jupiter 68555-07-05 03:36 G 26760444.49 26760444.65 26760444.81 0.0483 0.0044

Mars 68555-08-23 21:51 G 26760494.35 26760494.41 26760494.46 0.1635 0.1496

Earth 68558-07-19 09:22 G 26761554.81 26761554.89 26761554.97 0.2696 0.2000

Moon 68558-07-19 09:51 G 26761554.83 26761554.91 26761554.99 0.2702 0.1995 *

Jupiter 68561-06-09 06:43 G 26762610.64 26762610.78 26762610.92 0.0545 0.0058

Neptune 68561-10-07 22:34 G 26762731.40 26762731.44 26762731.51 0.0088 0.0082

Neptune 68562-01-04 01:12 G 26762819.47 26762819.55 26762819.65 0.0088 0.0073

Neptune 68562-04-02 03:36 G 26762907.55 26762907.65 26762907.77 0.0088 0.0064

Neptune 68562-06-29 06:15 G 26762995.63 26762995.76 26762995.89 0.0088 0.0055

Neptune 68562-09-25 08:39 G 26763083.72 26763083.86 26763084.01 0.0088 0.0046

Neptune 68562-12-22 11:17 G 26763171.82 26763171.97 26763172.12 0.0088 0.0037

Neptune 68563-03-20 13:41 G 26763259.91 26763260.07 26763260.23 0.0088 0.0028

Neptune 68563-06-16 16:19 G 26763348.01 26763348.18 26763348.34 0.0088 0.0019

Saturn 68563-09-08 16:05 G 26763432.11 26763432.17 26763432.24 0.0283 0.0257

Neptune 68563-09-12 18:43 G 26763436.11 26763436.28 26763436.45 0.0088 0.0010

Saturn 68563-12-06 08:39 G 26763520.71 26763520.86 26763521.01 0.0283 0.0100

Neptune 68563-12-09 21:22 G 26763524.22 26763524.39 26763524.56 0.0088 0.0001

Saturn 68564-03-04 01:27 G 26763609.41 26763609.56 26763609.72 0.0283 0.0061

Neptune 68564-03-06 23:46 G 26763612.33 26763612.49 26763612.67 0.0088 0.0009

Saturn 68564-05-31 18:43 G 26763698.19 26763698.28 26763698.38 0.0283 0.0225

Neptune 68564-06-03 02:24 G 26763700.44 26763700.60 26763700.77 0.0088 0.0018

Neptune 68564-08-30 05:03 G 26763788.55 26763788.71 26763788.87 0.0088 0.0027

Neptune 68564-11-26 07:41 G 26763876.66 26763876.82 26763876.97 0.0088 0.0036

Mars 68565-01-13 05:03 G 26763924.59 26763924.71 26763924.84 0.1638 0.0719

Neptune 68565-02-22 10:05 G 26763964.78 26763964.92 26763965.07 0.0088 0.0046

Neptune 68565-05-21 12:43 G 26764052.90 26764053.03 26764053.17 0.0088 0.0055

Neptune 68565-08-17 15:07 G 26764141.03 26764141.13 26764141.26 0.0088 0.0065

Neptune 68565-11-13 18:00 G 26764229.17 26764229.25 26764229.35 0.0088 0.0074

Neptune 68566-02-09 20:24 G 26764317.32 26764317.35 26764317.42 0.0088 0.0084

Moon 68567-01-27 00:43 G 26764668.42 26764668.53 26764668.64 0.2635 0.1730

Earth 68567-01-27 01:41 G 26764668.47 26764668.57 26764668.67 0.2639 0.1831 *

Jupiter 68567-04-23 05:17 G 26764754.57 26764754.72 26764754.86 0.0483 0.0207

Jupiter 68567-07-21 22:05 G 26764844.39 26764844.42 26764844.45 0.0484 0.0474

Venus 68568-08-30 12:58 G 26765249.93 26765250.04 26765250.15 0.3690 0.0525

Earth 68571-07-22 05:46 G 26766305.63 26766305.74 26766305.86 0.2695 0.0670

Moon 68571-07-22 06:43 G 26766305.66 26766305.78 26766305.89 0.2698 0.0518 *

Jupiter 68573-03-28 07:41 G 26766920.70 26766920.82 26766920.95 0.0544 0.0283

Mars 68573-07-21 21:07 G 26767036.27 26767036.38 26767036.49 0.1887 0.1008

Moon 68574-01-19 07:12 G 26767217.76 26767217.80 26767217.85 0.2635 0.2460

Venus 68574-03-16 06:58 G 26767273.71 26767273.79 26767273.87 0.3689 0.2655

Mars 68574-06-05 12:15 G 26767354.86 26767355.01 26767355.15 0.1640 0.0095

Saturn 68578-07-13 15:07 G 26768854.00 26768854.13 26768854.26 0.0277 0.0143

Saturn 68578-10-10 05:17 G 26768942.58 26768942.72 26768942.87 0.0277 0.0009

Saturn 68579-01-06 19:27 G 26769031.18 26769031.31 26769031.44 0.0277 0.0138

Jupiter 68579-02-09 06:43 G 26769064.68 26769064.78 26769064.88 0.0484 0.0373

Saturn 68579-04-05 08:53 G 26769119.87 26769119.87 26769119.89 0.0277 0.0275

Jupiter 68579-05-09 23:03 G 26769154.34 26769154.46 26769154.59 0.0484 0.0300

Venus 68581-04-12 02:24 G 26769857.47 26769857.60 26769857.73 0.3681 0.0285

Uranus 68581-11-28 03:07 G 26770087.61 26770087.63 26770087.67 0.0136 0.0132

Uranus 68582-02-24 07:27 G 26770175.73 26770175.81 26770175.90 0.0136 0.0111

Uranus 68582-05-23 11:17 G 26770263.87 26770263.97 26770264.09 0.0136 0.0091

Uranus 68582-08-19 15:36 G 26770352.02 26770352.15 26770352.28 0.0136 0.0070

Uranus 68582-11-15 19:41 G 26770440.18 26770440.32 26770440.45 0.0136 0.0049

Mars 68582-12-12 01:41 G 26770466.44 26770466.57 26770466.70 0.1882 0.0211

Uranus 68583-02-11 23:31 G 26770528.34 26770528.48 26770528.63 0.0136 0.0029

Uranus 68583-05-11 03:36 G 26770616.50 26770616.65 26770616.80 0.0136 0.0009

Uranus 68583-08-07 07:27 G 26770704.67 26770704.81 26770704.96 0.0136 0.0012

Mars 68583-10-26 18:43 G 26770785.17 26770785.28 26770785.40 0.1644 0.0916

Uranus 68583-11-03 11:31 G 26770792.84 26770792.98 26770793.12 0.0136 0.0032

Uranus 68584-01-30 15:22 G 26770881.01 26770881.14 26770881.27 0.0136 0.0052

Uranus 68584-04-27 18:58 G 26770969.18 26770969.29 26770969.42 0.0136 0.0073

Earth 68584-07-24 02:10 G 26771056.47 26771056.59 26771056.70 0.2694 0.0641

Moon 68584-07-24 02:53 G 26771056.50 26771056.62 26771056.74 0.2691 0.0643 *

Uranus 68584-07-24 23:03 G 26771057.36 26771057.46 26771057.57 0.0136 0.0092

Uranus 68584-10-21 02:53 G 26771145.54 26771145.62 26771145.70 0.0136 0.0111

Jupiter 68585-01-14 08:53 G 26771230.82 26771230.87 26771230.92 0.0544 0.0506

Uranus 68585-01-17 06:29 G 26771233.75 26771233.77 26771233.82 0.0136 0.0131

Jupiter 68585-04-14 00:43 G 26771320.42 26771320.53 26771320.64 0.0544 0.0344

Earth 68587-01-22 06:15 G 26771968.63 26771968.76 26771968.88 0.2637 0.1126

Moon 68587-01-22 06:43 G 26771968.65 26771968.78 26771968.90 0.2631 0.1153 *

Jupiter 68591-02-26 00:15 G 26773464.35 26773464.51 26773464.67 0.0483 0.0127

Mars 68592-05-03 06:43 G 26773896.69 26773896.78 26773896.87 0.1878 0.1386

Saturn 68593-01-25 19:27 G 26774164.29 26774164.31 26774164.33 0.0283 0.0279

Saturn 68593-04-24 11:46 G 26774252.85 26774252.99 26774253.14 0.0283 0.0123

Saturn 68593-07-22 04:34 G 26774341.54 26774341.69 26774341.85 0.0283 0.0038

Saturn 68593-10-18 21:51 G 26774430.30 26774430.41 26774430.52 0.0283 0.0200

Mars 68595-02-21 22:05 G 26774921.40 26774921.42 26774921.43 0.1635 0.1618

Jupiter 68597-01-31 02:24 G 26775630.46 26775630.60 26775630.73 0.0545 0.0133

Earth 68597-07-26 22:05 G 26775807.33 26775807.42 26775807.50 0.2693 0.1891

Moon 68597-07-26 22:19 G 26775807.35 26775807.43 26775807.51 0.2687 0.1975 *

Moon 68600-01-25 06:29 G 26776719.63 26776719.77 26776719.91 0.2632 0.0510

Earth 68600-01-25 06:29 G 26776719.64 26776719.77 26776719.91 0.2638 0.0480 *

Jupiter 68602-12-16 01:41 G 26777774.41 26777774.57 26777774.73 0.0483 0.0041

Mars 68604-07-15 05:17 G 26778351.60 26778351.72 26778351.84 0.1638 0.0843

Earth 68604-07-20 14:39 G 26778357.02 26778357.11 26778357.20 0.2696 0.1746

Moon 68604-07-20 15:07 G 26778357.04 26778357.13 26778357.22 0.2702 0.1672 *

Saturn 68607-12-01 17:03 G 26779586.09 26779586.21 26779586.32 0.0276 0.0180

Saturn 68608-02-28 07:12 G 26779674.66 26779674.80 26779674.95 0.0276 0.0039

Saturn 68608-05-26 21:22 G 26779763.25 26779763.39 26779763.53 0.0276 0.0101

Saturn 68608-08-23 11:03 G 26779851.89 26779851.96 26779852.04 0.0276 0.0237

Jupiter 68608-11-20 04:19 G 26779940.54 26779940.68 26779940.82 0.0545 0.0071

Mars 68613-01-20 21:22 G 26781463.28 26781463.39 26781463.49 0.1887 0.1156

Moon 68613-01-28 06:29 G 26781470.67 26781470.77 26781470.86 0.2636 0.2004

Earth 68613-01-28 07:27 G 26781470.73 26781470.81 26781470.89 0.2640 0.2137 *

Mars 68613-12-05 12:29 G 26781781.87 26781782.02 26781782.16 0.1641 0.0065

Jupiter 68614-10-04 03:07 G 26782084.49 26782084.63 26782084.78 0.0483 0.0207

Jupiter 68615-01-01 19:55 G 26782174.30 26782174.33 26782174.36 0.0483 0.0472

Earth 68617-07-23 11:03 G 26783107.84 26783107.96 26783108.08 0.2695 0.0419

Moon 68617-07-23 11:46 G 26783107.87 26783107.99 26783108.11 0.2696 0.0390 *

Venus 68619-09-22 17:03 G 26783899.13 26783899.21 26783899.29 0.3691 0.2567

Earth 68620-01-21 11:46 G 26784019.94 26784019.99 26784020.05 0.2636 0.2376

Moon 68620-01-21 12:58 G 26784019.98 26784020.04 26784020.10 0.2634 0.2346 *

Jupiter 68620-09-08 06:15 G 26784250.64 26784250.76 26784250.89 0.0545 0.0276

Mars 68622-06-13 01:41 G 26784893.44 26784893.57 26784893.70 0.1882 0.0087

Saturn 68622-09-12 11:03 G 26784984.85 26784984.96 26784985.09 0.0283 0.0180

Saturn 68622-12-10 03:51 G 26785073.50 26785073.66 26785073.82 0.0283 0.0022

Uranus 68622-12-12 03:07 G 26785075.55 26785075.63 26785075.71 0.0142 0.0123

Saturn 68623-03-08 20:53 G 26785162.23 26785162.37 26785162.51 0.0283 0.0141

Uranus 68623-03-10 09:07 G 26785163.76 26785163.88 26785164.00 0.0142 0.0097

Mars 68623-04-27 19:12 G 26785212.17 26785212.30 26785212.42 0.1644 0.0778

Uranus 68623-06-06 15:07 G 26785251.99 26785252.13 26785252.28 0.0142 0.0071

Uranus 68623-09-02 21:22 G 26785340.23 26785340.39 26785340.55 0.0142 0.0044

Uranus 68623-11-30 03:22 G 26785428.47 26785428.64 26785428.81 0.0142 0.0018

Uranus 68624-02-26 09:36 G 26785516.73 26785516.90 26785517.07 0.0142 0.0009

Uranus 68624-05-24 15:51 G 26785604.99 26785605.16 26785605.32 0.0142 0.0036

Uranus 68624-08-20 21:51 G 26785693.27 26785693.41 26785693.57 0.0142 0.0064

Uranus 68624-11-17 04:05 G 26785781.55 26785781.67 26785781.81 0.0142 0.0091

Uranus 68625-02-13 10:19 G 26785869.85 26785869.93 26785870.04 0.0142 0.0119

Venus 68625-04-07 11:03 G 26785922.85 26785922.96 26785923.07 0.3690 0.0678

Jupiter 68626-07-23 05:03 G 26786394.61 26786394.71 26786394.81 0.0484 0.0369

Jupiter 68626-10-20 21:07 G 26786484.26 26786484.38 26786484.51 0.0483 0.0303

Earth 68630-07-26 07:12 G 26787858.69 26787858.80 26787858.91 0.2694 0.0872

Moon 68630-07-26 07:55 G 26787858.72 26787858.83 26787858.94 0.2690 0.1035 *

Mars 68631-11-03 06:43 G 26788323.69 26788323.78 26788323.88 0.1878 0.1255

Venus 68632-05-04 02:39 G 26788506.55 26788506.61 26788506.66 0.3680 0.3331

Jupiter 68632-06-27 07:12 G 26788560.75 26788560.80 26788560.86 0.0544 0.0500

Mars 68632-09-17 01:41 G 26788642.56 26788642.57 26788642.58 0.1647 0.1634

Jupiter 68632-09-24 23:17 G 26788650.36 26788650.47 26788650.58 0.0544 0.0351

Earth 68633-01-23 11:46 G 26788770.86 26788770.99 26788771.12 0.2638 0.0835

Moon 68633-01-23 12:15 G 26788770.88 26788771.01 26788771.15 0.2631 0.0696 *

Saturn 68637-04-19 18:29 G 26790318.18 26790318.27 26790318.36 0.0277 0.0219

Saturn 68637-07-17 08:53 G 26790406.73 26790406.87 26790407.02 0.0277 0.0076

Saturn 68637-10-13 23:03 G 26790495.32 26790495.46 26790495.61 0.0277 0.0066

Venus 68637-11-18 01:41 G 26790530.45 26790530.57 26790530.69 0.3681 0.1422

Saturn 68638-01-10 12:58 G 26790583.94 26790584.04 26790584.14 0.0277 0.0203

Jupiter 68638-08-08 22:19 G 26790794.28 26790794.43 26790794.59 0.0484 0.0130

Neptune 68643-02-01 09:36 G 26792431.87 26792431.90 26792431.96 0.0089 0.0086

Neptune 68643-04-30 11:46 G 26792519.92 26792519.99 26792520.07 0.0089 0.0077

Neptune 68643-07-27 13:27 G 26792607.98 26792608.06 26792608.17 0.0089 0.0068

Moon 68643-07-29 03:22 G 26792609.56 26792609.64 26792609.71 0.2686 0.2074

Earth 68643-07-29 03:07 G 26792609.56 26792609.63 26792609.70 0.2693 0.2127 *

Neptune 68643-10-23 15:22 G 26792696.04 26792696.14 26792696.26 0.0089 0.0060

Mars 68644-01-14 05:46 G 26792778.62 26792778.74 26792778.85 0.1637 0.0968

Neptune 68644-01-19 17:03 G 26792784.10 26792784.21 26792784.35 0.0089 0.0052

Neptune 68644-04-16 19:12 G 26792872.17 26792872.30 26792872.43 0.0089 0.0042

Neptune 68644-07-13 21:07 G 26792960.24 26792960.38 26792960.52 0.0089 0.0034

Jupiter 68644-07-14 00:43 G 26792960.39 26792960.53 26792960.67 0.0544 0.0136 *

Neptune 68644-10-09 22:48 G 26793048.32 26793048.45 26793048.60 0.0089 0.0026

Neptune 68645-01-06 00:43 G 26793136.39 26793136.53 26793136.68 0.0089 0.0017

Neptune 68645-04-04 02:39 G 26793224.46 26793224.61 26793224.76 0.0089 0.0009

Neptune 68645-07-01 04:19 G 26793312.54 26793312.68 26793312.83 0.0089 0.0003

Neptune 68645-09-27 06:15 G 26793400.61 26793400.76 26793400.91 0.0089 0.0008

Neptune 68645-12-24 07:55 G 26793488.69 26793488.83 26793488.98 0.0089 0.0017

Moon 68646-01-26 12:00 G 26793521.86 26793522.00 26793522.14 0.2633 0.0668

Earth 68646-01-26 12:29 G 26793521.88 26793522.02 26793522.15 0.2639 0.0787 *

Neptune 68646-03-22 09:51 G 26793576.77 26793576.91 26793577.05 0.0089 0.0025

Neptune 68646-06-18 11:17 G 26793664.85 26793664.97 26793665.12 0.0089 0.0034

Neptune 68646-09-14 13:12 G 26793752.93 26793753.05 26793753.19 0.0089 0.0041

Neptune 68646-12-11 14:53 G 26793841.01 26793841.12 26793841.25 0.0089 0.0050

Neptune 68647-03-09 16:48 G 26793929.09 26793929.20 26793929.31 0.0089 0.0058

Neptune 68647-06-05 18:29 G 26794017.18 26794017.27 26794017.37 0.0089 0.0066

Neptune 68647-09-01 20:10 G 26794105.27 26794105.34 26794105.43 0.0089 0.0074

Neptune 68647-11-28 22:05 G 26794193.37 26794193.42 26794193.48 0.0089 0.0082

Jupiter 68650-05-27 23:31 G 26795104.32 26795104.48 26795104.65 0.0483 0.0043

Earth 68650-07-21 19:41 G 26795159.22 26795159.32 26795159.42 0.2696 0.1497

Moon 68650-07-21 20:24 G 26795159.25 26795159.35 26795159.45 0.2702 0.1446 *

Saturn 68652-01-30 14:24 G 26795716.99 26795717.10 26795717.21 0.0283 0.0202

Saturn 68652-04-28 07:12 G 26795805.64 26795805.80 26795805.95 0.0283 0.0045

Mars 68652-07-21 21:22 G 26795890.30 26795890.39 26795890.49 0.1886 0.1295

Saturn 68652-07-26 00:00 G 26795894.36 26795894.50 26795894.65 0.0283 0.0118

Saturn 68652-10-22 17:31 G 26795983.23 26795983.23 26795983.23 0.0283 0.0283

Mars 68653-06-05 12:43 G 26796208.89 26796209.03 26796209.17 0.1641 0.0171

Jupiter 68656-05-02 01:55 G 26797270.44 26797270.58 26797270.72 0.0545 0.0084

Moon 68659-01-29 12:15 G 26798272.95 26798273.01 26798273.07 0.2636 0.2377

Earth 68659-01-29 13:12 G 26798273.01 26798273.05 26798273.10 0.2640 0.2457 *

Mars 68661-12-12 01:55 G 26799320.45 26799320.58 26799320.71 0.1882 0.0065

Jupiter 68662-03-16 01:27 G 26799414.41 26799414.56 26799414.70 0.0483 0.0203

Jupiter 68662-06-13 18:00 G 26799504.23 26799504.25 26799504.28 0.0483 0.0476

Mars 68662-10-26 19:27 G 26799639.18 26799639.31 26799639.44 0.1644 0.0652

Earth 68663-07-24 16:05 G 26799910.05 26799910.17 26799910.29 0.2695 0.0189

Moon 68663-07-24 17:03 G 26799910.09 26799910.21 26799910.33 0.2694 0.0044 *

Uranus 68665-12-19 10:19 G 26800788.88 26800788.93 26800788.99 0.0136 0.0126

Earth 68666-01-21 17:31 G 26800822.15 26800822.23 26800822.31 0.2637 0.2089

Moon 68666-01-21 18:29 G 26800822.17 26800822.27 26800822.36 0.2633 0.1945 *

Uranus 68666-03-17 14:10 G 26800877.01 26800877.09 26800877.20 0.0136 0.0106

Uranus 68666-06-13 18:29 G 26800965.16 26800965.27 26800965.39 0.0136 0.0085

Saturn 68666-09-06 20:39 G 26801050.30 26801050.36 26801050.42 0.0276 0.0253

Uranus 68666-09-09 22:34 G 26801053.31 26801053.44 26801053.57 0.0136 0.0064

Saturn 68666-12-04 11:03 G 26801138.83 26801138.96 26801139.10 0.0276 0.0110

Uranus 68666-12-07 02:39 G 26801141.47 26801141.61 26801141.75 0.0136 0.0043

Saturn 68667-03-03 01:27 G 26801227.41 26801227.56 26801227.71 0.0276 0.0032

Uranus 68667-03-05 06:43 G 26801229.63 26801229.78 26801229.92 0.0136 0.0023

Saturn 68667-05-30 15:22 G 26801316.02 26801316.14 26801316.25 0.0276 0.0169

Uranus 68667-06-01 10:34 G 26801317.80 26801317.94 26801318.09 0.0136 0.0004

Uranus 68667-08-28 14:39 G 26801405.96 26801406.11 26801406.25 0.0136 0.0018

Uranus 68667-11-24 18:29 G 26801494.13 26801494.27 26801494.41 0.0136 0.0038

Jupiter 68668-02-19 03:51 G 26801580.54 26801580.66 26801580.78 0.0545 0.0291

Uranus 68668-02-20 22:19 G 26801582.30 26801582.43 26801582.56 0.0136 0.0058

Uranus 68668-05-19 02:24 G 26801670.48 26801670.60 26801670.71 0.0136 0.0078

Uranus 68668-08-15 06:00 G 26801758.66 26801758.75 26801758.86 0.0136 0.0098

Uranus 68668-11-11 09:51 G 26801846.85 26801846.91 26801846.99 0.0136 0.0117

Mars 68671-05-04 06:58 G 26802750.69 26802750.79 26802750.89 0.1878 0.1118

Mars 68672-03-18 01:55 G 26803069.53 26803069.58 26803069.64 0.1647 0.1501

Jupiter 68674-01-02 02:53 G 26803724.52 26803724.62 26803724.72 0.0483 0.0369

Jupiter 68674-04-01 18:58 G 26803814.17 26803814.29 26803814.42 0.0483 0.0301

Venus 68676-04-28 15:07 G 26804572.02 26804572.13 26804572.23 0.3690 0.1358

Earth 68676-07-26 12:15 G 26804660.91 26804661.01 26804661.12 0.2693 0.1119

Moon 68676-07-26 13:12 G 26804660.94 26804661.05 26804661.15 0.2690 0.1126 *

Earth 68679-01-24 17:31 G 26805573.10 26805573.23 26805573.37 0.2638 0.0534

Moon 68679-01-24 18:00 G 26805573.12 26805573.25 26805573.39 0.2631 0.0571 *

Jupiter 68679-12-08 05:31 G 26805890.68 26805890.73 26805890.79 0.0545 0.0498

Jupiter 68680-03-06 21:36 G 26805980.30 26805980.40 26805980.51 0.0545 0.0356

Saturn 68681-06-18 13:41 G 26806449.02 26806449.07 26806449.14 0.0283 0.0258

Saturn 68681-09-15 06:15 G 26806537.62 26806537.76 26806537.91 0.0283 0.0102

Venus 68681-11-12 09:07 G 26806595.78 26806595.88 26806595.98 0.3689 0.1865

Saturn 68681-12-12 23:17 G 26806626.31 26806626.47 26806626.62 0.0283 0.0059

Saturn 68682-03-11 16:19 G 26806715.09 26806715.18 26806715.28 0.0283 0.0222

Mars 68683-07-15 06:00 G 26807205.64 26807205.75 26807205.85 0.1638 0.1092

Earth 68683-07-20 04:19 G 26807210.65 26807210.68 26807210.71 0.2696 0.2599

Moon 68683-07-20 04:34 G 26807210.65 26807210.69 26807210.73 0.2703 0.2530 *

Jupiter 68686-01-18 20:24 G 26808124.20 26808124.35 26808124.51 0.0483 0.0135

Venus 68688-12-09 01:55 G 26809179.46 26809179.58 26809179.69 0.3680 0.1670

Earth 68689-07-29 08:10 G 26809411.79 26809411.84 26809411.90 0.2692 0.2358

Moon 68689-07-29 08:10 G 26809411.80 26809411.84 26809411.89 0.2685 0.2429 *

Jupiter 68691-12-24 23:17 G 26810290.33 26810290.47 26810290.61 0.0545 0.0143

Mars 68692-01-20 21:36 G 26810317.31 26810317.40 26810317.48 0.1887 0.1427

Moon 68692-01-27 17:31 G 26810324.10 26810324.23 26810324.36 0.2633 0.1104

Earth 68692-01-27 18:15 G 26810324.13 26810324.26 26810324.38 0.2639 0.1088 *

Mars 68692-12-04 13:12 G 26810635.91 26810636.05 26810636.18 0.1640 0.0307

Pluto 68693-06-03 03:36 G 26810816.65 26810816.65 26810816.67 0.0065 0.0065

Pluto 68693-08-30 04:19 G 26810904.61 26810904.68 26810904.78 0.0065 0.0054

Pluto 68693-11-26 05:17 G 26810992.61 26810992.72 26810992.83 0.0065 0.0043

Pluto 68694-02-22 05:46 G 26811080.62 26811080.74 26811080.88 0.0065 0.0033

Pluto 68694-05-21 06:29 G 26811168.64 26811168.77 26811168.92 0.0065 0.0022

Venus 68694-06-25 01:12 G 26811203.48 26811203.55 26811203.61 0.3682 0.3168

Pluto 68694-08-17 07:27 G 26811256.66 26811256.81 26811256.96 0.0065 0.0011

Pluto 68694-11-13 08:10 G 26811344.69 26811344.84 26811344.99 0.0065 0.0001

Pluto 68695-02-09 08:53 G 26811432.72 26811432.87 26811433.02 0.0065 0.0011

Pluto 68695-05-08 09:36 G 26811520.76 26811520.90 26811521.04 0.0065 0.0021

Pluto 68695-08-04 10:05 G 26811608.80 26811608.92 26811609.06 0.0065 0.0033

Pluto 68695-10-31 10:48 G 26811696.85 26811696.95 26811697.07 0.0066 0.0044

Pluto 68696-01-27 11:17 G 26811784.91 26811784.97 26811785.07 0.0066 0.0055

Saturn 68696-04-22 12:29 G 26811870.89 26811871.02 26811871.15 0.0277 0.0150

Pluto 68696-04-24 12:29 G 26811873.01 26811873.02 26811873.04 0.0066 0.0065

Saturn 68696-07-20 02:53 G 26811959.47 26811959.62 26811959.77 0.0277 0.0008

Earth 68696-07-22 00:58 G 26811961.43 26811961.54 26811961.65 0.2695 0.1240

Moon 68696-07-22 01:41 G 26811961.46 26811961.57 26811961.67 0.2700 0.1196 *

Saturn 68696-10-16 16:48 G 26812048.07 26812048.20 26812048.33 0.0277 0.0132

Saturn 68697-01-13 06:43 G 26812136.74 26812136.78 26812136.81 0.0277 0.0268

Jupiter 68697-11-06 21:51 G 26812434.25 26812434.41 26812434.57 0.0484 0.0038

Mars 68701-06-13 02:10 G 26813747.46 26813747.59 26813747.72 0.1882 0.0209

Mars 68702-04-27 19:41 G 26814066.19 26814066.32 26814066.46 0.1644 0.0525

Jupiter 68703-10-14 00:29 G 26814600.38 26814600.52 26814600.67 0.0545 0.0077

Moon 68705-01-30 18:00 G 26815075.23 26815075.25 26815075.27 0.2637 0.2598

Uranus 68707-01-02 10:05 G 26815776.83 26815776.92 26815777.02 0.0142 0.0117

Uranus 68707-03-31 16:05 G 26815865.05 26815865.17 26815865.30 0.0142 0.0090

Uranus 68707-06-27 22:05 G 26815953.27 26815953.42 26815953.57 0.0142 0.0064

Uranus 68707-09-24 04:19 G 26816041.51 26816041.68 26816041.84 0.0142 0.0038

Uranus 68707-12-21 10:19 G 26816129.76 26816129.93 26816130.10 0.0142 0.0011

Uranus 68708-03-18 16:34 G 26816218.02 26816218.19 26816218.36 0.0142 0.0016

Uranus 68708-06-14 22:48 G 26816306.28 26816306.45 26816306.61 0.0142 0.0043

Uranus 68708-09-11 04:48 G 26816394.56 26816394.70 26816394.86 0.0142 0.0071

Uranus 68708-12-08 11:03 G 26816482.85 26816482.96 26816483.09 0.0142 0.0098

Uranus 68709-03-06 17:31 G 26816571.16 26816571.23 26816571.31 0.0142 0.0125

Earth 68709-07-25 21:22 G 26816712.27 26816712.39 26816712.51 0.2695 0.0084

Moon 68709-07-25 22:19 G 26816712.31 26816712.43 26816712.55 0.2694 0.0173 *

Jupiter 68709-08-26 23:17 G 26816744.33 26816744.47 26816744.62 0.0484 0.0203

Jupiter 68709-11-24 15:51 G 26816834.14 26816834.16 26816834.19 0.0483 0.0476

Mars 68710-11-03 06:58 G 26817177.68 26817177.79 26817177.90 0.1878 0.0989

Saturn 68710-11-06 17:03 G 26817181.20 26817181.21 26817181.21 0.0283 0.0282

Saturn 68711-02-03 09:22 G 26817269.75 26817269.89 26817270.03 0.0283 0.0127

Saturn 68711-05-03 02:10 G 26817358.43 26817358.59 26817358.75 0.0283 0.0033

Saturn 68711-07-30 19:12 G 26817447.19 26817447.30 26817447.42 0.0283 0.0196

Mars 68711-09-18 02:24 G 26817496.52 26817496.60 26817496.67 0.1647 0.1367

Earth 68712-01-23 23:03 G 26817624.36 26817624.46 26817624.56 0.2637 0.1802

Moon 68712-01-24 00:00 G 26817624.39 26817624.50 26817624.60 0.2632 0.1741 *

Jupiter 68715-08-02 01:27 G 26818910.44 26818910.56 26818910.68 0.0545 0.0302

Jupiter 68715-10-30 17:03 G 26819000.20 26819000.21 26819000.22 0.0545 0.0541

Jupiter 68721-06-15 01:12 G 26821054.45 26821054.55 26821054.65 0.0483 0.0363

Jupiter 68721-09-12 17:17 G 26821144.10 26821144.22 26821144.35 0.0483 0.0307

Earth 68722-07-28 17:31 G 26821463.12 26821463.23 26821463.33 0.2693 0.1354

Moon 68722-07-28 18:00 G 26821463.15 26821463.25 26821463.35 0.2689 0.1463 *

Mars 68723-01-14 06:15 G 26821632.67 26821632.76 26821632.85 0.1637 0.1216

Earth 68725-01-25 23:17 G 26822375.33 26822375.47 26822375.61 0.2638 0.0236

Moon 68725-01-25 23:31 G 26822375.34 26822375.48 26822375.62 0.2632 0.0146 *

Saturn 68725-09-10 14:53 G 26822603.01 26822603.12 26822603.23 0.0276 0.0182

Saturn 68725-12-08 05:17 G 26822691.57 26822691.72 26822691.87 0.0276 0.0040

Saturn 68726-03-06 19:12 G 26822780.17 26822780.30 26822780.44 0.0276 0.0100

Neptune 68726-04-09 19:41 G 26822814.28 26822814.32 26822814.37 0.0088 0.0084

Saturn 68726-06-03 09:07 G 26822868.81 26822868.88 26822868.95 0.0276 0.0236

Neptune 68726-07-06 21:51 G 26822902.34 26822902.41 26822902.51 0.0088 0.0076

Neptune 68726-10-03 00:15 G 26822990.42 26822990.51 26822990.64 0.0088 0.0067

Neptune 68726-12-30 02:53 G 26823078.50 26823078.62 26823078.76 0.0088 0.0058

Neptune 68727-03-28 05:17 G 26823166.59 26823166.72 26823166.87 0.0088 0.0049

Jupiter 68727-05-21 03:07 G 26823220.58 26823220.63 26823220.68 0.0545 0.0513

Venus 68727-05-21 18:58 G 26823221.25 26823221.29 26823221.33 0.3691 0.3442

Neptune 68727-06-24 07:55 G 26823254.69 26823254.83 26823254.99 0.0088 0.0040

Jupiter 68727-08-18 19:12 G 26823310.20 26823310.30 26823310.41 0.0545 0.0343

Neptune 68727-09-20 10:19 G 26823342.78 26823342.93 26823343.10 0.0088 0.0031

Neptune 68727-12-17 12:58 G 26823430.88 26823431.04 26823431.21 0.0088 0.0022

Neptune 68728-03-14 15:22 G 26823518.98 26823519.14 26823519.31 0.0088 0.0013

Neptune 68728-06-10 18:00 G 26823607.08 26823607.25 26823607.42 0.0088 0.0004

Neptune 68728-09-06 20:24 G 26823695.19 26823695.35 26823695.53 0.0088 0.0006

Neptune 68728-12-03 23:03 G 26823783.29 26823783.46 26823783.63 0.0088 0.0015

Neptune 68729-03-02 01:27 G 26823871.40 26823871.56 26823871.73 0.0088 0.0024

Neptune 68729-05-29 04:05 G 26823959.52 26823959.67 26823959.83 0.0088 0.0033

Earth 68729-07-21 09:36 G 26824012.84 26824012.90 26824012.96 0.2696 0.2340

Moon 68729-07-21 09:51 G 26824012.86 26824012.91 26824012.96 0.2703 0.2395 *

Neptune 68729-08-25 06:43 G 26824047.63 26824047.78 26824047.93 0.0088 0.0042

Neptune 68729-11-21 09:07 G 26824135.75 26824135.88 26824136.03 0.0088 0.0052

Neptune 68730-02-17 11:46 G 26824223.88 26824223.99 26824224.12 0.0088 0.0061

Neptune 68730-05-16 14:10 G 26824312.01 26824312.09 26824312.21 0.0088 0.0071

Neptune 68730-08-12 17:03 G 26824400.15 26824400.21 26824400.29 0.0088 0.0080

Mars 68731-07-22 21:51 G 26824744.33 26824744.41 26824744.48 0.1886 0.1570

Mars 68732-06-05 13:12 G 26825062.92 26825063.05 26825063.19 0.1641 0.0427

Venus 68732-12-04 13:12 G 26825244.93 26825245.05 26825245.16 0.3690 0.0180

Jupiter 68733-07-01 18:29 G 26825454.12 26825454.27 26825454.43 0.0483 0.0135

Moon 68735-07-31 13:27 G 26826214.02 26826214.06 26826214.09 0.2685 0.2515

Earth 68735-07-31 13:12 G 26826214.03 26826214.05 26826214.08 0.2692 0.2595 *

Moon 68738-01-28 23:17 G 26827126.34 26827126.47 26827126.59 0.2633 0.1232

Earth 68738-01-29 00:00 G 26827126.38 26827126.50 26827126.62 0.2639 0.1404 *

Venus 68738-06-20 07:12 G 26827268.73 26827268.80 26827268.86 0.3689 0.3040

Jupiter 68739-06-06 21:36 G 26827620.26 26827620.40 26827620.53 0.0545 0.0145

Saturn 68740-06-22 08:53 G 26828001.75 26828001.87 26828001.99 0.0283 0.0182

Saturn 68740-09-19 01:27 G 26828090.40 26828090.56 26828090.72 0.0283 0.0024

Mars 68740-12-12 02:10 G 26828174.46 26828174.59 26828174.72 0.1882 0.0326

Saturn 68740-12-16 18:15 G 26828179.13 26828179.26 26828179.41 0.0283 0.0138

Mars 68741-10-26 20:10 G 26828493.20 26828493.34 26828493.48 0.1644 0.0387

Earth 68742-07-24 06:15 G 26828763.64 26828763.76 26828763.87 0.2695 0.0994

Moon 68742-07-24 06:58 G 26828763.67 26828763.79 26828763.90 0.2699 0.0868 *

Jupiter 68745-04-19 20:10 G 26829764.18 26829764.34 26829764.50 0.0483 0.0032

Venus 68745-07-17 01:12 G 26829852.42 26829852.55 26829852.68 0.3681 0.0029

Uranus 68750-01-09 17:03 G 26831490.16 26831490.21 26831490.29 0.0136 0.0121

Uranus 68750-04-07 21:22 G 26831578.29 26831578.39 26831578.49 0.0136 0.0100

Mars 68750-05-04 07:12 G 26831604.69 26831604.80 26831604.92 0.1878 0.0845

Uranus 68750-07-05 01:12 G 26831666.44 26831666.55 26831666.68 0.0136 0.0080

Uranus 68750-10-01 05:31 G 26831754.60 26831754.73 26831754.86 0.0136 0.0059

Uranus 68750-12-28 09:36 G 26831842.76 26831842.90 26831843.04 0.0136 0.0038

Mars 68751-03-19 02:39 G 26831923.52 26831923.61 26831923.71 0.1647 0.1233

Jupiter 68751-03-25 23:17 G 26831930.32 26831930.47 26831930.61 0.0545 0.0069

Uranus 68751-03-26 13:41 G 26831930.92 26831931.07 26831931.21 0.0136 0.0018

Uranus 68751-06-22 17:31 G 26832019.09 26832019.23 26832019.38 0.0136 0.0003

Uranus 68751-09-18 21:22 G 26832107.25 26832107.39 26832107.54 0.0136 0.0023

Uranus 68751-12-16 01:27 G 26832195.42 26832195.56 26832195.70 0.0136 0.0043

Uranus 68752-03-13 05:17 G 26832283.60 26832283.72 26832283.85 0.0136 0.0063

Uranus 68752-06-09 09:07 G 26832371.77 26832371.88 26832372.00 0.0136 0.0083

Uranus 68752-09-05 12:58 G 26832459.95 26832460.04 26832460.14 0.0136 0.0103

Uranus 68752-12-02 16:48 G 26832548.15 26832548.20 26832548.27 0.0136 0.0122

Saturn 68755-01-28 15:51 G 26833335.07 26833335.16 26833335.24 0.0276 0.0227

Saturn 68755-04-27 06:15 G 26833423.62 26833423.76 26833423.91 0.0276 0.0083

Saturn 68755-07-24 20:24 G 26833512.21 26833512.35 26833512.50 0.0276 0.0058

Earth 68755-07-27 02:24 G 26833514.49 26833514.60 26833514.72 0.2694 0.0337

Moon 68755-07-27 03:22 G 26833514.52 26833514.64 26833514.76 0.2694 0.0426 *

Saturn 68755-10-21 10:19 G 26833600.83 26833600.93 26833601.04 0.0276 0.0195

Jupiter 68757-02-05 21:22 G 26834074.25 26834074.39 26834074.54 0.0484 0.0201

Jupiter 68757-05-06 13:55 G 26834164.07 26834164.08 26834164.11 0.0484 0.0480

Earth 68758-01-24 04:48 G 26834426.59 26834426.70 26834426.81 0.2637 0.1509

Moon 68758-01-24 05:31 G 26834426.62 26834426.73 26834426.85 0.2631 0.1419 *

Mars 68762-07-15 06:29 G 26836059.69 26836059.77 26836059.85 0.1637 0.1337

Jupiter 68763-01-12 00:15 G 26836240.39 26836240.51 26836240.64 0.0545 0.0287

Earth 68768-07-28 22:34 G 26838265.34 26838265.44 26838265.53 0.2693 0.1592

Moon 68768-07-28 23:03 G 26838265.36 26838265.46 26838265.55 0.2687 0.1605 *

Jupiter 68768-11-24 23:03 G 26838384.36 26838384.46 26838384.57 0.0484 0.0363

Jupiter 68769-02-22 15:22 G 26838474.01 26838474.14 26838474.26 0.0483 0.0308

Saturn 68769-11-09 11:17 G 26838733.87 26838733.97 26838734.08 0.0283 0.0211

Saturn 68770-02-06 03:51 G 26838822.51 26838822.66 26838822.82 0.0283 0.0054

Saturn 68770-05-05 20:53 G 26838911.22 26838911.37 26838911.52 0.0283 0.0107

Saturn 68770-08-02 14:10 G 26839000.05 26839000.09 26839000.13 0.0283 0.0272

Mars 68771-01-20 21:51 G 26839171.36 26839171.41 26839171.47 0.1886 0.1710

Moon 68771-01-27 05:03 G 26839177.57 26839177.71 26839177.85 0.2632 0.0046

Earth 68771-01-27 05:03 G 26839177.57 26839177.71 26839177.85 0.2638 0.0072 *

Mars 68771-12-05 13:41 G 26839489.94 26839490.07 26839490.20 0.1640 0.0551

Jupiter 68774-10-31 00:43 G 26840550.50 26840550.53 26840550.58 0.0545 0.0521

Jupiter 68775-01-28 17:03 G 26840640.10 26840640.21 26840640.32 0.0545 0.0335

Earth 68775-07-22 14:53 G 26840815.04 26840815.12 26840815.19 0.2696 0.2085

Moon 68775-07-22 15:07 G 26840815.05 26840815.13 26840815.21 0.2703 0.1986 *

Mars 68780-06-12 02:24 G 26842601.47 26842601.60 26842601.73 0.1882 0.0471

Jupiter 68780-12-11 16:48 G 26842784.05 26842784.20 26842784.36 0.0483 0.0143

Mars 68781-04-26 20:24 G 26842920.21 26842920.35 26842920.49 0.1644 0.0264

Pluto 68782-02-22 16:19 G 26843222.10 26843222.18 26843222.27 0.0079 0.0067

Pluto 68782-05-21 18:00 G 26843310.12 26843310.25 26843310.39 0.0079 0.0046

Pluto 68782-08-17 19:55 G 26843398.18 26843398.33 26843398.49 0.0079 0.0024

Pluto 68782-11-13 21:51 G 26843486.25 26843486.41 26843486.58 0.0079 0.0003

Pluto 68783-02-09 23:31 G 26843574.33 26843574.48 26843574.65 0.0079 0.0018

Pluto 68783-05-09 01:27 G 26843662.42 26843662.56 26843662.71 0.0079 0.0039

Pluto 68783-08-05 03:07 G 26843750.53 26843750.63 26843750.75 0.0078 0.0060

Venus 68783-12-26 17:03 G 26843894.12 26843894.21 26843894.30 0.3691 0.2200

Moon 68784-01-30 05:03 G 26843928.60 26843928.71 26843928.81 0.2634 0.1712

Earth 68784-01-30 05:46 G 26843928.63 26843928.74 26843928.84 0.2639 0.1708 *

Saturn 68784-06-16 18:15 G 26844067.21 26844067.26 26844067.32 0.0276 0.0256

Saturn 68784-09-13 08:53 G 26844155.74 26844155.87 26844156.01 0.0276 0.0113

Saturn 68784-12-10 23:17 G 26844244.32 26844244.47 26844244.61 0.0276 0.0029

Saturn 68785-03-09 12:58 G 26844332.93 26844333.04 26844333.16 0.0276 0.0166

Jupiter 68786-11-16 19:12 G 26844950.16 26844950.30 26844950.43 0.0545 0.0133

Earth 68788-07-24 11:17 G 26845565.86 26845565.97 26845566.09 0.2695 0.0742

Moon 68788-07-24 12:15 G 26845565.89 26845566.01 26845566.12 0.2697 0.0716 *

Venus 68789-07-11 11:17 G 26845917.86 26845917.97 26845918.07 0.3690 0.1068

Mars 68789-11-02 07:12 G 26846031.68 26846031.80 26846031.92 0.1878 0.0720

Mars 68790-09-17 03:07 G 26846350.52 26846350.63 26846350.73 0.1647 0.1102

Uranus 68790-10-26 11:17 G 26846389.92 26846389.97 26846390.02 0.0142 0.0136

Uranus 68791-01-22 16:48 G 26846478.11 26846478.20 26846478.32 0.0142 0.0111

Uranus 68791-04-20 23:03 G 26846566.33 26846566.46 26846566.60 0.0142 0.0084

Uranus 68791-07-18 05:03 G 26846654.56 26846654.71 26846654.87 0.0142 0.0057

Uranus 68791-10-14 11:03 G 26846742.80 26846742.96 26846743.13 0.0142 0.0031

Uranus 68792-01-10 17:17 G 26846831.05 26846831.22 26846831.39 0.0142 0.0004

Uranus 68792-04-07 23:31 G 26846919.31 26846919.48 26846919.65 0.0142 0.0023

Uranus 68792-07-05 05:31 G 26847007.58 26847007.73 26847007.90 0.0142 0.0050

Jupiter 68792-09-29 18:15 G 26847094.10 26847094.26 26847094.42 0.0483 0.0028

Uranus 68792-10-01 11:46 G 26847095.85 26847095.99 26847096.14 0.0142 0.0077

Uranus 68792-12-28 18:00 G 26847184.14 26847184.25 26847184.37 0.0142 0.0105

Uranus 68793-03-27 00:29 G 26847272.46 26847272.52 26847272.58 0.0142 0.0132

Venus 68796-08-07 01:27 G 26848501.49 26848501.56 26848501.64 0.3680 0.2982

Jupiter 68798-09-04 21:22 G 26849260.25 26849260.39 26849260.53 0.0545 0.0069

Mars 68799-03-25 12:29 G 26849462.01 26849462.02 26849462.03 0.1873 0.1863

Saturn 68799-03-29 10:48 G 26849465.90 26849465.95 26849466.01 0.0283 0.0266

Saturn 68799-06-26 03:22 G 26849554.49 26849554.64 26849554.78 0.0283 0.0110

Saturn 68799-09-22 19:55 G 26849643.18 26849643.33 26849643.49 0.0283 0.0050

Saturn 68799-12-20 12:58 G 26849731.95 26849732.04 26849732.16 0.0283 0.0213

Earth 68801-07-27 07:41 G 26850316.70 26850316.82 26850316.94 0.2694 0.0565

Moon 68801-07-27 08:24 G 26850316.74 26850316.85 26850316.97 0.2693 0.0674 *

Mars 68802-01-13 06:43 G 26850486.73 26850486.78 26850486.85 0.1638 0.1463

Venus 68802-02-21 00:43 G 26850525.41 26850525.53 26850525.64 0.3681 0.1749

Earth 68804-01-25 10:19 G 26851228.81 26851228.93 26851229.06 0.2637 0.1226

Moon 68804-01-25 11:17 G 26851228.84 26851228.97 26851229.09 0.2632 0.1139 *

Jupiter 68804-07-18 19:55 G 26851404.19 26851404.33 26851404.48 0.0483 0.0191

Neptune 68807-08-03 07:12 G 26852514.80 26852514.80 26852514.84 0.0090 0.0089

Neptune 68807-10-30 09:22 G 26852602.83 26852602.89 26852602.96 0.0089 0.0080

Neptune 68808-01-26 11:03 G 26852690.89 26852690.96 26852691.06 0.0089 0.0072

Neptune 68808-04-23 13:12 G 26852778.95 26852779.05 26852779.16 0.0089 0.0063

Neptune 68808-07-20 14:53 G 26852867.01 26852867.12 26852867.25 0.0089 0.0054

Neptune 68808-10-16 16:48 G 26852955.08 26852955.20 26852955.34 0.0089 0.0046

Neptune 68809-01-12 18:43 G 26853043.15 26853043.28 26853043.42 0.0089 0.0037

Neptune 68809-04-10 20:39 G 26853131.22 26853131.36 26853131.50 0.0089 0.0029

Neptune 68809-07-07 22:19 G 26853219.30 26853219.43 26853219.58 0.0089 0.0021

Neptune 68809-10-04 00:29 G 26853307.37 26853307.52 26853307.66 0.0089 0.0012

Neptune 68809-12-31 02:10 G 26853395.44 26853395.59 26853395.74 0.0089 0.0003

Neptune 68810-03-29 04:05 G 26853483.52 26853483.67 26853483.81 0.0089 0.0005

Jupiter 68810-06-23 22:48 G 26853570.33 26853570.45 26853570.58 0.0545 0.0279

Neptune 68810-06-25 05:46 G 26853571.60 26853571.74 26853571.89 0.0089 0.0014

Mars 68810-07-21 22:05 G 26853598.39 26853598.42 26853598.44 0.1887 0.1839

Neptune 68810-09-21 07:41 G 26853659.68 26853659.82 26853659.96 0.0089 0.0022

Neptune 68810-12-18 09:22 G 26853747.76 26853747.89 26853748.03 0.0089 0.0030

Neptune 68811-03-16 11:03 G 26853835.84 26853835.96 26853836.10 0.0089 0.0039

Mars 68811-06-05 13:55 G 26853916.95 26853917.08 26853917.21 0.1640 0.0680

Neptune 68811-06-12 12:58 G 26853923.92 26853924.04 26853924.16 0.0089 0.0047

Neptune 68811-09-08 14:39 G 26854012.00 26854012.11 26854012.23 0.0089 0.0055

Neptune 68811-12-05 16:05 G 26854100.09 26854100.17 26854100.29 0.0089 0.0064

Neptune 68812-03-02 18:00 G 26854188.18 26854188.25 26854188.35 0.0089 0.0071

Neptune 68812-05-29 19:41 G 26854276.27 26854276.32 26854276.40 0.0089 0.0080

Neptune 68812-08-25 21:22 G 26854364.38 26854364.39 26854364.43 0.0089 0.0088

Saturn 68814-01-31 09:22 G 26854887.77 26854887.89 26854888.02 0.0276 0.0161

Saturn 68814-04-29 23:46 G 26854976.34 26854976.49 26854976.64 0.0276 0.0020

Saturn 68814-07-27 13:55 G 26855064.95 26855065.08 26855065.21 0.0276 0.0121

Earth 68814-07-30 03:36 G 26855067.57 26855067.65 26855067.74 0.2693 0.1829

Moon 68814-07-30 04:05 G 26855067.58 26855067.67 26855067.75 0.2686 0.1869 *

Saturn 68814-10-24 03:36 G 26855153.60 26855153.65 26855153.71 0.0276 0.0257

Jupiter 68816-05-06 21:22 G 26855714.29 26855714.39 26855714.50 0.0484 0.0358

Jupiter 68816-08-04 13:41 G 26855803.94 26855804.07 26855804.19 0.0484 0.0313

Moon 68817-01-27 10:34 G 26855979.80 26855979.94 26855980.08 0.2631 0.0359

Earth 68817-01-27 10:48 G 26855979.81 26855979.95 26855980.09 0.2638 0.0371 *

Mars 68819-12-12 02:39 G 26857028.48 26857028.61 26857028.73 0.1882 0.0615

Mars 68820-10-25 20:53 G 26857347.22 26857347.37 26857347.51 0.1644 0.0139

Earth 68821-07-22 19:55 G 26857617.25 26857617.33 26857617.42 0.2696 0.1831

Moon 68821-07-22 20:24 G 26857617.27 26857617.35 26857617.44 0.2702 0.1862 *

Jupiter 68822-04-12 00:00 G 26857880.45 26857880.50 26857880.56 0.0544 0.0500

Jupiter 68822-07-10 16:05 G 26857970.07 26857970.17 26857970.28 0.0545 0.0354

Jupiter 68828-05-23 15:07 G 26860113.97 26860114.13 26860114.28 0.0483 0.0145

Saturn 68828-11-12 05:17 G 26860286.59 26860286.72 26860286.86 0.0283 0.0144

Saturn 68829-02-08 22:05 G 26860375.26 26860375.42 26860375.58 0.0283 0.0015

Mars 68829-05-03 07:27 G 26860458.68 26860458.81 26860458.93 0.1878 0.0582

Saturn 68829-05-08 15:07 G 26860464.01 26860464.13 26860464.26 0.0283 0.0178

Moon 68830-01-30 10:34 G 26860730.85 26860730.94 26860731.04 0.2635 0.1863

Earth 68830-01-30 11:31 G 26860730.89 26860730.98 26860731.07 0.2639 0.2025 *

Mars 68830-03-18 03:22 G 26860777.53 26860777.64 26860777.76 0.1647 0.0967

Uranus 68834-01-30 00:00 G 26862191.43 26862191.50 26862191.59 0.0136 0.0116

Uranus 68834-04-28 04:19 G 26862279.58 26862279.68 26862279.79 0.0136 0.0095

Jupiter 68834-04-28 17:03 G 26862280.08 26862280.21 26862280.35 0.0545 0.0129

Uranus 68834-07-25 08:24 G 26862367.73 26862367.85 26862367.98 0.0136 0.0074

Earth 68834-07-25 16:34 G 26862368.07 26862368.19 26862368.31 0.2695 0.0493

Moon 68834-07-25 17:31 G 26862368.11 26862368.23 26862368.35 0.2697 0.0330 *

Uranus 68834-10-21 12:29 G 26862455.89 26862456.02 26862456.16 0.0136 0.0053

Uranus 68835-01-17 16:34 G 26862544.05 26862544.19 26862544.33 0.0136 0.0033

Uranus 68835-04-15 20:39 G 26862632.21 26862632.36 26862632.50 0.0136 0.0013

Uranus 68835-07-13 00:29 G 26862720.38 26862720.52 26862720.67 0.0136 0.0008

Uranus 68835-10-09 04:34 G 26862808.55 26862808.69 26862808.83 0.0136 0.0028

Uranus 68836-01-05 08:24 G 26862896.72 26862896.85 26862896.99 0.0136 0.0048

Uranus 68836-04-02 12:15 G 26862984.89 26862985.01 26862985.14 0.0136 0.0068

Uranus 68836-06-29 16:05 G 26863073.07 26863073.17 26863073.29 0.0136 0.0088

Uranus 68836-09-25 20:10 G 26863161.25 26863161.34 26863161.42 0.0136 0.0108

Uranus 68836-12-22 23:46 G 26863249.45 26863249.49 26863249.55 0.0136 0.0128

Earth 68837-01-22 16:05 G 26863280.13 26863280.17 26863280.22 0.2636 0.2467

Moon 68837-01-22 17:17 G 26863280.15 26863280.22 26863280.28 0.2633 0.2277 *

Mars 68838-09-23 12:29 G 26863888.98 26863889.02 26863889.07 0.1873 0.1727

Jupiter 68840-03-11 16:48 G 26864424.04 26864424.20 26864424.36 0.0483 0.0018

Venus 68840-08-01 15:07 G 26864567.02 26864567.13 26864567.24 0.3691 0.0969

Mars 68841-07-14 07:12 G 26864913.76 26864913.80 26864913.83 0.1638 0.1581

Saturn 68843-06-20 12:15 G 26865619.90 26865620.01 26865620.12 0.0276 0.0189

Saturn 68843-09-17 02:39 G 26865708.46 26865708.61 26865708.76 0.0276 0.0047

Saturn 68843-12-14 16:34 G 26865797.06 26865797.19 26865797.34 0.0276 0.0093

Saturn 68844-03-12 06:29 G 26865885.69 26865885.77 26865885.85 0.0276 0.0228

Jupiter 68846-02-14 18:58 G 26866590.15 26866590.29 26866590.43 0.0545 0.0078

Venus 68846-02-15 09:22 G 26866590.80 26866590.89 26866590.97 0.3689 0.2263

Earth 68847-07-28 12:43 G 26867118.92 26867119.03 26867119.15 0.2694 0.0808

Moon 68847-07-28 13:27 G 26867118.95 26867119.06 26867119.18 0.2691 0.0843 *

Earth 68850-01-25 16:05 G 26868031.04 26868031.17 26868031.30 0.2637 0.0928

Moon 68850-01-25 16:48 G 26868031.06 26868031.20 26868031.33 0.2632 0.0913 *

Mars 68850-12-04 14:10 G 26868343.97 26868344.09 26868344.22 0.1641 0.0802

Jupiter 68851-12-29 18:15 G 26868734.12 26868734.26 26868734.41 0.0483 0.0185

Venus 68853-03-14 00:58 G 26869174.42 26869174.54 26869174.66 0.3680 0.1325

Jupiter 68857-12-03 21:07 G 26870900.26 26870900.38 26870900.50 0.0545 0.0281

Saturn 68858-04-01 04:48 G 26871018.59 26871018.70 26871018.81 0.0283 0.0198

Saturn 68858-06-28 21:22 G 26871107.24 26871107.39 26871107.55 0.0283 0.0042

Saturn 68858-09-25 14:10 G 26871195.95 26871196.09 26871196.24 0.0283 0.0120

Venus 68858-09-28 00:00 G 26871198.47 26871198.50 26871198.54 0.3682 0.3498

Mars 68859-06-12 02:24 G 26871455.48 26871455.60 26871455.73 0.1882 0.0737

Mars 68860-04-25 21:07 G 26871774.24 26871774.38 26871774.52 0.1644 0.0025

Earth 68860-07-30 08:39 G 26871869.79 26871869.86 26871869.94 0.2693 0.2066

Moon 68860-07-30 09:07 G 26871869.81 26871869.88 26871869.95 0.2686 0.2097 *

Moon 68863-01-28 16:05 G 26872782.04 26872782.17 26872782.31 0.2631 0.0636

Earth 68863-01-28 16:34 G 26872782.06 26872782.19 26872782.32 0.2638 0.0670 *

Jupiter 68863-10-17 20:10 G 26873044.23 26873044.34 26873044.45 0.0483 0.0346

Jupiter 68864-01-15 12:15 G 26873133.89 26873134.01 26873134.13 0.0483 0.0324

Earth 68867-07-24 01:12 G 26874419.45 26874419.55 26874419.65 0.2696 0.1576

Moon 68867-07-24 01:55 G 26874419.48 26874419.58 26874419.68 0.2701 0.1459 *

Mars 68868-11-01 07:41 G 26874885.69 26874885.82 26874885.94 0.1878 0.0450

Mars 68869-09-16 03:36 G 26875204.53 26875204.65 26875204.78 0.1647 0.0839

Jupiter 68869-09-21 22:34 G 26875210.39 26875210.44 26875210.51 0.0545 0.0491

Jupiter 68869-12-20 14:53 G 26875300.02 26875300.12 26875300.22 0.0545 0.0364

Saturn 68872-11-06 12:15 G 26876351.94 26876352.01 26876352.09 0.0276 0.0241

Saturn 68873-02-03 02:53 G 26876440.48 26876440.62 26876440.76 0.0276 0.0097

Saturn 68873-05-02 17:03 G 26876529.07 26876529.21 26876529.36 0.0276 0.0044

Saturn 68873-07-30 06:58 G 26876617.69 26876617.79 26876617.91 0.0276 0.0181

Uranus 68874-11-15 18:00 G 26877091.19 26877091.25 26877091.33 0.0142 0.0129

Uranus 68875-02-12 00:00 G 26877179.39 26877179.50 26877179.62 0.0142 0.0103

Uranus 68875-05-11 06:00 G 26877267.62 26877267.75 26877267.90 0.0142 0.0077

Uranus 68875-08-07 12:15 G 26877355.85 26877356.01 26877356.16 0.0142 0.0050

Jupiter 68875-11-03 13:27 G 26877443.91 26877444.06 26877444.21 0.0484 0.0152

Uranus 68875-11-03 18:15 G 26877444.09 26877444.26 26877444.42 0.0142 0.0024 *

Uranus 68876-01-31 00:15 G 26877532.34 26877532.51 26877532.68 0.0142 0.0004

Moon 68876-01-31 16:19 G 26877533.11 26877533.18 26877533.25 0.2637 0.2258

Earth 68876-01-31 17:17 G 26877533.16 26877533.22 26877533.29 0.2639 0.2333 *

Uranus 68876-04-28 06:29 G 26877620.60 26877620.77 26877620.93 0.0142 0.0030

Uranus 68876-07-25 12:29 G 26877708.87 26877709.02 26877709.18 0.0142 0.0057

Uranus 68876-10-21 18:43 G 26877797.15 26877797.28 26877797.42 0.0142 0.0084

Uranus 68877-01-18 01:12 G 26877885.44 26877885.55 26877885.65 0.0142 0.0111

Uranus 68877-04-16 07:12 G 26877973.78 26877973.80 26877973.84 0.0142 0.0139

Mars 68878-03-24 12:43 G 26878315.97 26878316.03 26878316.10 0.1873 0.1586

Earth 68880-07-25 21:36 G 26879170.28 26879170.40 26879170.52 0.2695 0.0255

Moon 68880-07-25 22:34 G 26879170.32 26879170.44 26879170.56 0.2697 0.0228 *

Jupiter 68881-10-08 16:34 G 26879610.05 26879610.19 26879610.32 0.0545 0.0153

Earth 68883-01-23 21:51 G 26880082.33 26880082.41 26880082.48 0.2636 0.2180

Moon 68883-01-23 22:48 G 26880082.38 26880082.45 26880082.53 0.2633 0.2161 *

Saturn 68887-08-19 06:15 G 26881750.68 26881750.76 26881750.85 0.0283 0.0237

Jupiter 68887-08-22 15:07 G 26881753.97 26881754.13 26881754.29 0.0483 0.0013

Saturn 68887-11-15 22:48 G 26881839.30 26881839.45 26881839.60 0.0283 0.0081

Saturn 68888-02-12 15:36 G 26881928.00 26881928.15 26881928.31 0.0283 0.0080

Saturn 68888-05-11 08:53 G 26882016.79 26882016.87 26882016.95 0.0283 0.0243

Mars 68890-06-04 14:39 G 26882770.99 26882771.11 26882771.22 0.1641 0.0927

Neptune 68890-10-08 16:19 G 26882897.17 26882897.18 26882897.22 0.0088 0.0087

Neptune 68891-01-04 18:58 G 26882985.22 26882985.29 26882985.37 0.0088 0.0078

Neptune 68891-04-02 21:22 G 26883073.30 26883073.39 26883073.50 0.0088 0.0069

Neptune 68891-06-30 00:00 G 26883161.38 26883161.50 26883161.62 0.0088 0.0060

Venus 68891-08-23 18:58 G 26883216.23 26883216.29 26883216.36 0.3691 0.3050

Neptune 68891-09-26 02:24 G 26883249.47 26883249.60 26883249.74 0.0088 0.0051

Neptune 68891-12-23 04:34 G 26883337.56 26883337.69 26883337.85 0.0088 0.0043

Neptune 68892-03-20 07:12 G 26883425.65 26883425.80 26883425.96 0.0088 0.0034

Neptune 68892-06-16 09:36 G 26883513.75 26883513.90 26883514.07 0.0088 0.0025

Neptune 68892-09-12 12:15 G 26883601.85 26883602.01 26883602.18 0.0088 0.0016

Neptune 68892-12-09 14:53 G 26883689.95 26883690.12 26883690.29 0.0088 0.0006

Neptune 68893-03-07 17:17 G 26883778.05 26883778.22 26883778.39 0.0088 0.0003

Neptune 68893-06-03 19:55 G 26883866.16 26883866.33 26883866.50 0.0088 0.0012

Jupiter 68893-07-27 17:03 G 26883920.07 26883920.21 26883920.35 0.0545 0.0080

Earth 68893-07-28 17:46 G 26883921.14 26883921.24 26883921.35 0.2694 0.1050

Moon 68893-07-28 18:29 G 26883921.16 26883921.27 26883921.38 0.2689 0.1179 *

Neptune 68893-08-30 22:19 G 26883954.27 26883954.43 26883954.60 0.0088 0.0021

Neptune 68893-11-27 00:58 G 26884042.38 26884042.54 26884042.70 0.0088 0.0030

Neptune 68894-02-23 03:22 G 26884130.50 26884130.64 26884130.80 0.0088 0.0040

Neptune 68894-05-22 06:00 G 26884218.61 26884218.75 26884218.90 0.0088 0.0049

Neptune 68894-08-18 08:39 G 26884306.74 26884306.86 26884306.99 0.0088 0.0058

Neptune 68894-11-14 10:48 G 26884394.86 26884394.95 26884395.08 0.0088 0.0068

Neptune 68895-02-10 13:41 G 26884483.00 26884483.07 26884483.16 0.0088 0.0077

Neptune 68895-05-09 16:34 G 26884571.16 26884571.19 26884571.22 0.0088 0.0086

Earth 68896-01-26 21:51 G 26884833.27 26884833.41 26884833.54 0.2637 0.0639

Moon 68896-01-26 22:05 G 26884833.28 26884833.42 26884833.55 0.2631 0.0546 *

Venus 68897-03-08 13:27 G 26885239.94 26885240.06 26885240.17 0.3690 0.0301

Mars 68898-12-11 02:53 G 26885882.50 26885882.62 26885882.73 0.1882 0.0878

Jupiter 68899-06-10 17:03 G 26886064.06 26886064.21 26886064.36 0.0483 0.0172

Mars 68899-10-25 21:22 G 26886201.25 26886201.39 26886201.53 0.1644 0.0125

Moon 68900-07-22 09:36 G 26886470.89 26886470.90 26886470.92 0.2704 0.2680

Earth 68900-07-22 09:36 G 26886470.90 26886470.90 26886470.91 0.2697 0.2691 *

Saturn 68902-03-27 14:53 G 26887084.10 26887084.12 26887084.16 0.0276 0.0269

Saturn 68902-06-24 05:46 G 26887172.60 26887172.74 26887172.87 0.0276 0.0125

Saturn 68902-09-20 19:55 G 26887261.18 26887261.33 26887261.48 0.0276 0.0016

Venus 68902-09-23 07:27 G 26887263.77 26887263.81 26887263.84 0.3689 0.3444

Saturn 68902-12-18 09:51 G 26887349.79 26887349.91 26887350.04 0.0276 0.0153

Jupiter 68905-05-16 18:43 G 26888230.16 26888230.28 26888230.40 0.0545 0.0290

Earth 68906-08-01 13:55 G 26888672.02 26888672.08 26888672.14 0.2693 0.2300

Moon 68906-08-01 14:10 G 26888672.03 26888672.09 26888672.15 0.2686 0.2290 *

Mars 68908-05-03 07:41 G 26889312.69 26889312.82 26889312.95 0.1878 0.0318

Moon 68909-01-29 21:51 G 26889584.28 26889584.41 26889584.54 0.2632 0.0908

Earth 68909-01-29 22:19 G 26889584.30 26889584.43 26889584.56 0.2638 0.0976 *

Mars 68909-03-18 04:05 G 26889631.54 26889631.67 26889631.80 0.1647 0.0706

Venus 68909-10-20 00:15 G 26889847.38 26889847.51 26889847.63 0.3681 0.0372

Jupiter 68911-03-30 18:43 G 26890374.17 26890374.28 26890374.39 0.0483 0.0337

Jupiter 68911-06-28 10:34 G 26890463.83 26890463.94 26890464.06 0.0483 0.0333

Earth 68913-07-25 06:29 G 26891221.66 26891221.77 26891221.87 0.2696 0.1325

Moon 68913-07-25 07:12 G 26891221.69 26891221.80 26891221.90 0.2700 0.1294 *

Jupiter 68917-03-04 20:39 G 26892540.31 26892540.36 26892540.42 0.0545 0.0495

Saturn 68917-04-04 22:19 G 26892571.29 26892571.43 26892571.57 0.0283 0.0136

Jupiter 68917-06-02 12:58 G 26892629.94 26892630.04 26892630.15 0.0545 0.0363

Saturn 68917-07-02 15:07 G 26892659.97 26892660.13 26892660.28 0.0283 0.0024

Mars 68917-09-23 12:43 G 26892742.95 26892743.03 26892743.11 0.1873 0.1472

Saturn 68917-09-29 07:55 G 26892748.72 26892748.83 26892748.96 0.0283 0.0185

Uranus 68917-11-24 02:53 G 26892804.59 26892804.62 26892804.66 0.0136 0.0131

Uranus 68918-02-20 06:58 G 26892892.71 26892892.79 26892892.88 0.0136 0.0110

Uranus 68918-05-19 11:03 G 26892980.86 26892980.96 26892981.08 0.0136 0.0090

Mars 68918-08-08 10:19 G 26893061.89 26893061.93 26893061.98 0.1651 0.1557

Uranus 68918-08-15 15:22 G 26893069.01 26893069.14 26893069.27 0.0136 0.0069

Uranus 68918-11-11 19:12 G 26893157.17 26893157.30 26893157.45 0.0136 0.0049

Uranus 68919-02-07 23:31 G 26893245.33 26893245.48 26893245.62 0.0136 0.0028

Uranus 68919-05-07 03:22 G 26893333.50 26893333.64 26893333.79 0.0136 0.0008

Uranus 68919-08-03 07:27 G 26893421.66 26893421.81 26893421.96 0.0136 0.0013

Uranus 68919-10-30 11:17 G 26893509.83 26893509.97 26893510.12 0.0136 0.0033

Uranus 68920-01-26 15:07 G 26893598.01 26893598.13 26893598.27 0.0136 0.0054

Uranus 68920-04-23 19:12 G 26893686.18 26893686.30 26893686.42 0.0136 0.0073

Uranus 68920-07-20 22:48 G 26893774.36 26893774.45 26893774.57 0.0136 0.0094

Uranus 68920-10-17 02:53 G 26893862.55 26893862.62 26893862.70 0.0136 0.0113

Uranus 68921-01-13 06:43 G 26893950.75 26893950.78 26893950.82 0.0136 0.0132

Moon 68922-02-01 21:51 G 26894335.37 26894335.41 26894335.45 0.2637 0.2511

Jupiter 68923-04-16 12:15 G 26894773.86 26894774.01 26894774.16 0.0483 0.0166

Earth 68926-07-28 02:53 G 26895972.50 26895972.62 26895972.74 0.2695 0.0017

Moon 68926-07-28 03:36 G 26895972.53 26895972.65 26895972.77 0.2695 0.0195 *

Earth 68929-01-25 03:36 G 26896884.55 26896884.65 26896884.74 0.2636 0.1892

Moon 68929-01-25 04:34 G 26896884.58 26896884.69 26896884.79 0.2633 0.1708 *

Jupiter 68929-03-21 15:07 G 26896940.00 26896940.13 26896940.27 0.0545 0.0163

Mars 68929-12-04 14:53 G 26897198.01 26897198.12 26897198.23 0.1640 0.1053

Saturn 68931-11-11 05:31 G 26897904.62 26897904.73 26897904.85 0.0276 0.0179

Saturn 68932-02-07 19:55 G 26897993.19 26897993.33 26897993.48 0.0276 0.0038

Saturn 68932-05-06 10:05 G 26898081.79 26898081.92 26898082.06 0.0276 0.0102

Saturn 68932-08-02 23:46 G 26898170.43 26898170.49 26898170.57 0.0276 0.0238

Jupiter 68935-02-02 13:41 G 26899083.91 26899084.07 26899084.23 0.0483 0.0013

Mars 68938-06-12 03:07 G 26900309.52 26900309.63 26900309.74 0.1882 0.1022

Mars 68939-04-26 21:51 G 26900628.27 26900628.41 26900628.55 0.1644 0.0254

Earth 68939-07-30 23:03 G 26900723.35 26900723.46 26900723.56 0.2694 0.1289

Moon 68939-07-30 23:46 G 26900723.38 26900723.49 26900723.59 0.2689 0.1281 *

Pluto 68940-10-10 13:12 G 26901161.04 26901161.05 26901161.11 0.0065 0.0063

Pluto 68941-01-06 14:10 G 26901249.01 26901249.09 26901249.19 0.0065 0.0052

Jupiter 68941-01-07 16:48 G 26901250.05 26901250.20 26901250.34 0.0545 0.0052

Pluto 68941-04-04 15:07 G 26901337.02 26901337.13 26901337.25 0.0065 0.0041

Pluto 68941-07-01 15:36 G 26901425.03 26901425.15 26901425.30 0.0065 0.0031

Pluto 68941-09-27 16:34 G 26901513.05 26901513.19 26901513.34 0.0065 0.0020

Pluto 68941-12-24 17:17 G 26901601.07 26901601.22 26901601.37 0.0065 0.0009

Earth 68942-01-28 03:36 G 26901635.51 26901635.65 26901635.79 0.2637 0.0334

Moon 68942-01-28 03:36 G 26901635.52 26901635.65 26901635.79 0.2630 0.0412 *

Pluto 68942-03-22 18:00 G 26901689.10 26901689.25 26901689.41 0.0065 0.0003

Pluto 68942-06-18 18:43 G 26901777.14 26901777.28 26901777.43 0.0065 0.0013

Pluto 68942-09-14 19:27 G 26901865.17 26901865.31 26901865.46 0.0065 0.0024

Pluto 68942-12-11 20:10 G 26901953.22 26901953.34 26901953.47 0.0065 0.0035

Pluto 68943-03-09 20:39 G 26902041.27 26902041.36 26902041.48 0.0065 0.0046

Pluto 68943-06-05 21:22 G 26902129.33 26902129.39 26902129.48 0.0066 0.0057

Earth 68946-07-23 14:53 G 26903273.07 26903273.12 26903273.17 0.2697 0.2429

Moon 68946-07-23 15:07 G 26903273.08 26903273.13 26903273.18 0.2703 0.2413 *

Saturn 68946-08-22 23:17 G 26903303.35 26903303.47 26903303.59 0.0283 0.0179

Saturn 68946-11-19 15:51 G 26903392.00 26903392.16 26903392.32 0.0283 0.0022

Jupiter 68946-11-21 15:22 G 26903393.99 26903394.14 26903394.29 0.0483 0.0165

Saturn 68947-02-16 08:53 G 26903480.73 26903480.87 26903481.01 0.0283 0.0140

Mars 68947-11-02 07:41 G 26903739.69 26903739.82 26903739.95 0.1878 0.0187

Venus 68948-03-30 17:17 G 26903889.12 26903889.22 26903889.32 0.3691 0.1811

Mars 68948-09-16 04:19 G 26904058.55 26904058.68 26904058.82 0.1647 0.0576

Earth 68952-08-01 18:58 G 26905474.25 26905474.29 26905474.33 0.2693 0.2531

Moon 68952-08-01 18:58 G 26905474.26 26905474.29 26905474.32 0.2686 0.2570 *

Jupiter 68952-10-26 17:03 G 26905560.09 26905560.21 26905560.34 0.0545 0.0287

Venus 68953-10-14 11:17 G 26905912.87 26905912.97 26905913.08 0.3690 0.1470

Moon 68955-01-31 03:22 G 26906386.52 26906386.64 26906386.76 0.2633 0.1261

Earth 68955-01-31 04:05 G 26906386.55 26906386.67 26906386.79 0.2638 0.1280 *

Mars 68957-03-24 12:58 G 26907169.95 26907170.04 26907170.13 0.1873 0.1326

Mars 68958-02-06 10:34 G 26907488.88 26907488.94 26907489.01 0.1651 0.1431

Jupiter 68958-09-09 17:31 G 26907704.12 26907704.23 26907704.35 0.0483 0.0322

Uranus 68958-12-07 00:58 G 26907792.47 26907792.54 26907792.63 0.0142 0.0122

Jupiter 68958-12-08 09:36 G 26907793.79 26907793.90 26907794.01 0.0483 0.0348

Uranus 68959-03-05 06:58 G 26907880.68 26907880.79 26907880.92 0.0142 0.0096

Uranus 68959-06-01 12:58 G 26907968.90 26907969.04 26907969.19 0.0142 0.0070

Earth 68959-07-26 11:31 G 26908023.87 26908023.98 26908024.10 0.2696 0.1075

Moon 68959-07-26 12:29 G 26908023.90 26908024.02 26908024.13 0.2700 0.0958 *

Uranus 68959-08-28 18:58 G 26908057.14 26908057.29 26908057.46 0.0142 0.0044

Uranus 68959-11-25 01:12 G 26908145.38 26908145.55 26908145.72 0.0142 0.0017

Uranus 68960-02-21 07:12 G 26908233.63 26908233.80 26908233.97 0.0142 0.0010

Uranus 68960-05-19 13:12 G 26908321.89 26908322.05 26908322.22 0.0142 0.0037

Uranus 68960-08-15 19:27 G 26908410.16 26908410.31 26908410.47 0.0142 0.0064

Venus 68960-11-10 00:29 G 26908496.43 26908496.52 26908496.61 0.3680 0.2662

Uranus 68960-11-12 01:41 G 26908498.45 26908498.57 26908498.71 0.0142 0.0091

Uranus 68961-02-08 07:55 G 26908586.74 26908586.83 26908586.93 0.0142 0.0118

Saturn 68961-03-30 08:10 G 26908636.75 26908636.84 26908636.95 0.0276 0.0207

Saturn 68961-06-26 22:48 G 26908725.30 26908725.45 26908725.60 0.0276 0.0065

Saturn 68961-09-23 12:58 G 26908813.90 26908814.04 26908814.18 0.0276 0.0075

Saturn 68961-12-21 02:53 G 26908902.53 26908902.62 26908902.71 0.0276 0.0211

Jupiter 68964-08-14 18:29 G 26909870.22 26909870.27 26909870.33 0.0545 0.0501

Jupiter 68964-11-12 11:03 G 26909959.85 26909959.96 26909960.06 0.0545 0.0358

Venus 68966-05-26 23:31 G 26910520.37 26910520.48 26910520.59 0.3681 0.2058

Mars 68969-06-04 15:07 G 26911625.03 26911625.13 26911625.23 0.1641 0.1171

Jupiter 68970-09-26 10:48 G 26912103.80 26912103.95 26912104.10 0.0483 0.0177

Neptune 68972-04-30 06:58 G 26912685.75 26912685.79 26912685.86 0.0090 0.0083

Neptune 68972-07-27 09:07 G 26912773.80 26912773.88 26912773.97 0.0090 0.0074

Earth 68972-07-28 07:55 G 26912774.71 26912774.83 26912774.95 0.2695 0.0253

Moon 68972-07-28 08:53 G 26912774.75 26912774.87 26912774.99 0.2693 0.0280 *

Neptune 68972-10-23 10:48 G 26912861.86 26912861.95 26912862.06 0.0090 0.0066

Neptune 68973-01-19 12:43 G 26912949.93 26912950.03 26912950.16 0.0089 0.0057

Neptune 68973-04-17 14:39 G 26913037.99 26913038.11 26913038.24 0.0089 0.0048

Neptune 68973-07-14 16:34 G 26913126.06 26913126.19 26913126.33 0.0089 0.0040

Neptune 68973-10-10 18:29 G 26913214.13 26913214.27 26913214.41 0.0089 0.0031

Neptune 68974-01-06 20:24 G 26913302.21 26913302.35 26913302.49 0.0089 0.0023

Neptune 68974-04-04 22:05 G 26913390.28 26913390.42 26913390.57 0.0089 0.0015

Neptune 68974-07-02 00:00 G 26913478.36 26913478.50 26913478.65 0.0089 0.0006

Neptune 68974-09-28 01:55 G 26913566.43 26913566.58 26913566.73 0.0089 0.0003

Neptune 68974-12-25 03:36 G 26913654.51 26913654.65 26913654.80 0.0089 0.0011

Earth 68975-01-26 09:07 G 26913686.77 26913686.88 26913686.99 0.2636 0.1602

Moon 68975-01-26 09:51 G 26913686.80 26913686.91 26913687.02 0.2632 0.1597 *

Neptune 68975-03-23 05:31 G 26913742.59 26913742.73 26913742.87 0.0089 0.0019

Neptune 68975-06-19 07:12 G 26913830.67 26913830.80 26913830.95 0.0089 0.0028

Neptune 68975-09-15 09:07 G 26913918.75 26913918.88 26913919.01 0.0089 0.0036

Neptune 68975-12-12 10:48 G 26914006.83 26914006.95 26914007.08 0.0089 0.0044

Saturn 68976-01-09 23:03 G 26914035.37 26914035.46 26914035.55 0.0283 0.0232

Neptune 68976-03-09 12:29 G 26914094.91 26914095.02 26914095.15 0.0089 0.0053

Saturn 68976-04-07 15:22 G 26914123.99 26914124.14 26914124.30 0.0283 0.0076

Neptune 68976-06-05 14:24 G 26914183.00 26914183.10 26914183.21 0.0089 0.0060

Saturn 68976-07-05 08:10 G 26914212.69 26914212.84 26914213.00 0.0283 0.0084

Jupiter 68976-08-31 13:12 G 26914269.92 26914270.05 26914270.19 0.0546 0.0163

Neptune 68976-09-01 16:05 G 26914271.08 26914271.17 26914271.27 0.0089 0.0069

Saturn 68976-10-02 01:12 G 26914301.48 26914301.55 26914301.64 0.0283 0.0247

Neptune 68976-11-28 17:46 G 26914359.18 26914359.24 26914359.32 0.0089 0.0077

Neptune 68977-02-24 19:41 G 26914447.28 26914447.32 26914447.36 0.0089 0.0085

Mars 68977-12-11 02:53 G 26914736.52 26914736.62 26914736.73 0.1882 0.1135

Mars 68978-10-25 22:05 G 26915055.28 26915055.42 26915055.56 0.1644 0.0383

Jupiter 68982-07-15 12:29 G 26916413.86 26916414.02 26916414.18 0.0483 0.0017

Earth 68985-07-31 04:05 G 26917525.57 26917525.67 26917525.77 0.2694 0.1523

Moon 68985-07-31 04:48 G 26917525.60 26917525.70 26917525.79 0.2688 0.1657 *

Mars 68987-05-03 07:55 G 26918166.70 26918166.83 26918166.96 0.1878 0.0061

Moon 68988-01-29 09:22 G 26918437.75 26918437.89 26918438.03 0.2631 0.0059

Earth 68988-01-29 09:22 G 26918437.75 26918437.89 26918438.03 0.2638 0.0044 *

Mars 68988-03-17 04:48 G 26918485.56 26918485.70 26918485.83 0.1647 0.0448

Jupiter 68988-06-19 15:22 G 26918580.00 26918580.14 26918580.28 0.0545 0.0040

Saturn 68990-08-17 07:41 G 26919368.79 26919368.82 26919368.87 0.0276 0.0264

Saturn 68990-11-13 22:34 G 26919457.30 26919457.44 26919457.58 0.0276 0.0120

Saturn 68991-02-10 12:58 G 26919545.89 26919546.04 26919546.19 0.0276 0.0021

Saturn 68991-05-10 02:53 G 26919634.50 26919634.62 26919634.74 0.0276 0.0158

Earth 68992-07-23 20:10 G 26920075.27 26920075.34 26920075.41 0.2697 0.2170

Moon 68992-07-23 20:39 G 26920075.29 26920075.36 26920075.43 0.2703 0.2172 *

Jupiter 68994-05-03 14:10 G 26920723.94 26920724.09 26920724.24 0.0483 0.0155

Mars 68996-09-22 12:58 G 26921596.94 26921597.04 26921597.14 0.1873 0.1198

Mars 68997-08-07 11:03 G 26921915.87 26921915.96 26921916.05 0.1651 0.1296

Moon 68998-08-03 00:00 G 26922276.49 26922276.50 26922276.50 0.2686 0.2674

Jupiter 69000-04-08 16:48 G 26922890.08 26922890.20 26922890.33 0.0545 0.0254

70TH MILLENNIUM CE

This is a list of transits of Mercury in the 70th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Moon 69001-02-01 08:53 G 26923188.76 26923188.87 26923188.99 0.2634 0.1430

Earth 69001-02-01 09:51 G 26923188.80 26923188.91 26923189.02 0.2639 0.1595 *

Uranus 69001-12-15 09:36 G 26923505.86 26923505.90 26923505.97 0.0136 0.0126

Uranus 69002-03-13 13:55 G 26923593.99 26923594.08 26923594.18 0.0136 0.0105

Uranus 69002-06-09 18:15 G 26923682.14 26923682.26 26923682.37 0.0136 0.0084

Uranus 69002-09-05 22:05 G 26923770.30 26923770.42 26923770.56 0.0136 0.0064

Uranus 69002-12-03 02:24 G 26923858.46 26923858.60 26923858.74 0.0136 0.0043

Uranus 69003-03-01 06:15 G 26923946.62 26923946.76 26923946.91 0.0136 0.0023

Uranus 69003-05-28 10:19 G 26924034.79 26924034.93 26924035.08 0.0136 0.0004

Uranus 69003-08-24 14:24 G 26924122.95 26924123.10 26924123.24 0.0136 0.0018

Uranus 69003-11-20 18:15 G 26924211.12 26924211.26 26924211.40 0.0136 0.0039

Uranus 69004-02-16 22:19 G 26924299.30 26924299.43 26924299.56 0.0136 0.0058

Uranus 69004-05-15 02:10 G 26924387.47 26924387.59 26924387.71 0.0136 0.0078

Uranus 69004-08-11 06:00 G 26924475.65 26924475.75 26924475.85 0.0136 0.0098

Venus 69004-11-05 15:22 G 26924562.03 26924562.14 26924562.25 0.3691 0.0575

Uranus 69004-11-07 09:36 G 26924563.84 26924563.90 26924563.98 0.0136 0.0119

Saturn 69005-05-29 23:17 G 26924767.46 26924767.47 26924767.50 0.0283 0.0280

Earth 69005-07-27 16:48 G 26924826.09 26924826.20 26924826.32 0.2696 0.0819

Moon 69005-07-27 17:31 G 26924826.12 26924826.23 26924826.35 0.2700 0.0758 *

Saturn 69005-08-26 15:51 G 26924856.02 26924856.16 26924856.30 0.0283 0.0125

Saturn 69005-11-23 08:24 G 26924944.70 26924944.85 26924945.01 0.0283 0.0035

Saturn 69006-02-20 01:41 G 26925033.45 26925033.57 26925033.68 0.0283 0.0196

Jupiter 69006-02-20 16:05 G 26925034.05 26925034.17 26925034.29 0.0484 0.0312

Jupiter 69006-05-21 08:10 G 26925123.73 26925123.84 26925123.95 0.0483 0.0358

Mars 69008-12-04 15:22 G 26926052.06 26926052.14 26926052.23 0.1640 0.1296

Venus 69010-05-22 09:22 G 26926585.81 26926585.89 26926585.97 0.3690 0.2642

Jupiter 69012-01-26 17:03 G 26927200.16 26927200.21 26927200.27 0.0545 0.0494

Jupiter 69012-04-25 09:22 G 26927289.79 26927289.89 26927290.00 0.0545 0.0364

Mars 69017-06-12 03:07 G 26929163.54 26929163.63 26929163.73 0.1882 0.1284

Venus 69017-06-17 23:46 G 26929169.37 26929169.49 26929169.61 0.3680 0.1005

Jupiter 69017-12-09 18:15 G 26929344.23 26929344.26 26929344.30 0.0484 0.0468

Jupiter 69018-03-09 09:51 G 26929433.76 26929433.91 26929434.06 0.0483 0.0194

Mars 69018-04-26 22:19 G 26929482.30 26929482.43 26929482.57 0.1644 0.0502

Earth 69018-07-30 13:12 G 26929576.93 26929577.05 26929577.17 0.2695 0.0495

Moon 69018-07-30 13:55 G 26929576.97 26929577.08 26929577.20 0.2692 0.0625 *

Saturn 69020-04-03 01:12 G 26930189.43 26930189.55 26930189.68 0.0276 0.0148

Saturn 69020-06-30 15:36 G 26930278.00 26930278.15 26930278.30 0.0276 0.0009

Saturn 69020-09-27 05:46 G 26930366.61 26930366.74 26930366.87 0.0276 0.0131

Saturn 69020-12-24 19:27 G 26930455.28 26930455.31 26930455.35 0.0276 0.0266

Earth 69021-01-27 14:53 G 26930489.00 26930489.12 26930489.24 0.2637 0.1309

Moon 69021-01-27 15:22 G 26930489.02 26930489.14 26930489.26 0.2631 0.1195 *

Jupiter 69024-02-12 11:17 G 26931599.84 26931599.97 26931600.11 0.0545 0.0158

Mars 69026-11-02 07:55 G 26932593.70 26932593.83 26932593.96 0.1878 0.0078

Mars 69027-09-17 05:03 G 26932912.57 26932912.71 26932912.85 0.1647 0.0317

Pluto 69029-07-02 00:58 G 26933566.47 26933566.54 26933566.64 0.0079 0.0067

Pluto 69029-09-28 03:07 G 26933654.50 26933654.63 26933654.77 0.0079 0.0046

Pluto 69029-12-25 05:03 G 26933742.55 26933742.71 26933742.86 0.0079 0.0024

Jupiter 69029-12-26 11:17 G 26933743.81 26933743.97 26933744.13 0.0483 0.0026

Pluto 69030-03-23 06:43 G 26933830.62 26933830.78 26933830.95 0.0079 0.0004

Pluto 69030-06-19 08:24 G 26933918.70 26933918.85 26933919.02 0.0079 0.0018

Pluto 69030-09-15 10:19 G 26934006.79 26934006.93 26934007.08 0.0079 0.0039

Pluto 69030-12-12 12:00 G 26934094.90 26934095.00 26934095.12 0.0078 0.0060

Earth 69031-08-02 09:22 G 26934327.80 26934327.89 26934327.97 0.2694 0.1767

Moon 69031-08-02 09:36 G 26934327.81 26934327.90 26934328.00 0.2688 0.1744 *

Moon 69034-01-30 15:07 G 26935239.99 26935240.13 26935240.27 0.2631 0.0198

Earth 69034-01-30 15:07 G 26935239.99 26935240.13 26935240.26 0.2638 0.0272 *

Saturn 69035-01-13 15:36 G 26935588.04 26935588.15 26935588.28 0.0283 0.0176

Saturn 69035-04-12 08:10 G 26935676.69 26935676.84 26935677.00 0.0283 0.0021

Saturn 69035-07-10 01:12 G 26935765.41 26935765.55 26935765.69 0.0283 0.0142

Jupiter 69035-12-01 13:27 G 26935909.92 26935910.06 26935910.20 0.0546 0.0042

Mars 69036-03-24 12:58 G 26936023.94 26936024.04 26936024.15 0.1873 0.1076

Mars 69037-02-06 11:31 G 26936342.88 26936342.98 26936343.08 0.1651 0.1158

Earth 69038-07-26 01:27 G 26936877.48 26936877.56 26936877.65 0.2696 0.1913

Moon 69038-07-26 01:55 G 26936877.49 26936877.58 26936877.67 0.2703 0.1809 *

Jupiter 69041-10-14 13:12 G 26938053.89 26938054.05 26938054.20 0.0483 0.0137

Uranus 69042-10-01 01:55 G 26938405.58 26938405.58 26938405.61 0.0142 0.0142

Uranus 69042-12-28 07:55 G 26938493.75 26938493.83 26938493.94 0.0142 0.0116

Uranus 69043-03-26 13:55 G 26938581.96 26938582.08 26938582.22 0.0142 0.0089

Uranus 69043-06-22 19:55 G 26938670.19 26938670.33 26938670.48 0.0142 0.0063

Uranus 69043-09-19 01:55 G 26938758.42 26938758.58 26938758.75 0.0142 0.0037

Uranus 69043-12-16 08:10 G 26938846.67 26938846.84 26938847.01 0.0142 0.0010

Uranus 69044-03-13 14:10 G 26938934.92 26938935.09 26938935.26 0.0142 0.0017

Uranus 69044-06-09 20:10 G 26939023.19 26939023.34 26939023.51 0.0142 0.0044

Uranus 69044-09-06 02:24 G 26939111.46 26939111.60 26939111.75 0.0142 0.0071

Uranus 69044-12-03 08:24 G 26939199.74 26939199.85 26939199.99 0.0142 0.0098

Uranus 69045-03-01 14:53 G 26939288.05 26939288.12 26939288.20 0.0142 0.0125

Moon 69047-02-02 14:39 G 26939991.01 26939991.11 26939991.20 0.2635 0.1884

Earth 69047-02-02 15:36 G 26939991.06 26939991.15 26939991.25 0.2639 0.1902 *

Jupiter 69047-09-19 15:36 G 26940220.02 26940220.15 26940220.28 0.0545 0.0244

Mars 69048-06-04 15:51 G 26940479.09 26940479.16 26940479.23 0.1640 0.1419

Saturn 69049-08-21 00:43 G 26940921.43 26940921.53 26940921.64 0.0276 0.0206

Saturn 69049-11-17 15:22 G 26941009.99 26941010.14 26941010.29 0.0276 0.0063

Saturn 69050-02-14 05:31 G 26941098.59 26941098.73 26941098.88 0.0276 0.0076

Saturn 69050-05-13 19:27 G 26941187.22 26941187.31 26941187.40 0.0276 0.0212

Earth 69051-07-28 22:05 G 26941628.30 26941628.42 26941628.53 0.2695 0.0572

Moon 69051-07-28 22:48 G 26941628.33 26941628.45 26941628.57 0.2698 0.0493 *

Jupiter 69053-08-02 14:39 G 26942363.99 26942364.11 26942364.24 0.0483 0.0302

Jupiter 69053-10-31 06:43 G 26942453.68 26942453.78 26942453.88 0.0483 0.0369

Earth 69054-01-25 20:39 G 26942540.33 26942540.36 26942540.39 0.2636 0.2543

Moon 69054-01-25 21:36 G 26942540.36 26942540.40 26942540.45 0.2634 0.2433 *

Neptune 69055-07-07 15:36 G 26943068.10 26943068.15 26943068.23 0.0088 0.0081

Neptune 69055-10-03 18:00 G 26943156.17 26943156.25 26943156.36 0.0088 0.0072

Venus 69055-11-27 19:12 G 26943211.22 26943211.30 26943211.37 0.3692 0.2678

Neptune 69055-12-30 20:39 G 26943244.25 26943244.36 26943244.49 0.0088 0.0063

Neptune 69056-03-27 23:03 G 26943332.34 26943332.46 26943332.60 0.0088 0.0054

Neptune 69056-06-24 01:41 G 26943420.43 26943420.57 26943420.72 0.0088 0.0045

Neptune 69056-09-20 04:05 G 26943508.52 26943508.67 26943508.83 0.0088 0.0036

Mars 69056-12-11 03:22 G 26943590.56 26943590.64 26943590.73 0.1882 0.1421

Neptune 69056-12-17 06:29 G 26943596.62 26943596.77 26943596.94 0.0088 0.0027

Neptune 69057-03-15 09:07 G 26943684.72 26943684.88 26943685.05 0.0088 0.0018

Neptune 69057-06-11 11:31 G 26943772.82 26943772.98 26943773.15 0.0088 0.0009

Neptune 69057-09-07 14:10 G 26943860.92 26943861.09 26943861.26 0.0088 0.0001

Mars 69057-10-25 22:48 G 26943909.32 26943909.45 26943909.58 0.1644 0.0630

Neptune 69057-12-04 16:34 G 26943949.02 26943949.19 26943949.36 0.0088 0.0009

Neptune 69058-03-02 19:12 G 26944037.13 26944037.30 26944037.46 0.0088 0.0018

Neptune 69058-05-29 21:22 G 26944125.24 26944125.39 26944125.57 0.0088 0.0028

Neptune 69058-08-26 00:00 G 26944213.36 26944213.50 26944213.67 0.0088 0.0037

Neptune 69058-11-22 02:39 G 26944301.47 26944301.61 26944301.76 0.0088 0.0046

Neptune 69059-02-18 05:17 G 26944389.59 26944389.72 26944389.86 0.0088 0.0055

Neptune 69059-05-17 07:41 G 26944477.72 26944477.82 26944477.95 0.0088 0.0065

Jupiter 69059-07-08 17:03 G 26944530.13 26944530.21 26944530.28 0.0545 0.0459

Neptune 69059-08-13 10:19 G 26944565.85 26944565.93 26944566.03 0.0088 0.0074

Jupiter 69059-10-06 09:07 G 26944619.79 26944619.88 26944619.98 0.0545 0.0397

Neptune 69059-11-09 13:12 G 26944654.00 26944654.05 26944654.10 0.0088 0.0083

Venus 69061-06-12 13:27 G 26945234.95 26945235.06 26945235.17 0.3690 0.0637

Saturn 69064-06-01 15:36 G 26946320.07 26946320.15 26946320.25 0.0283 0.0228

Earth 69064-07-30 18:15 G 26946379.15 26946379.26 26946379.38 0.2695 0.0737

Moon 69064-07-30 19:12 G 26946379.18 26946379.30 26946379.41 0.2691 0.0796 *

Saturn 69064-08-29 08:10 G 26946408.69 26946408.84 26946408.99 0.0283 0.0072

Saturn 69064-11-26 00:58 G 26946497.39 26946497.54 26946497.69 0.0283 0.0088

Saturn 69065-02-22 18:15 G 26946586.19 26946586.26 26946586.33 0.0283 0.0251

Jupiter 69065-05-21 17:03 G 26946674.16 26946674.21 26946674.26 0.0484 0.0457

Jupiter 69065-08-19 08:24 G 26946763.71 26946763.85 26946764.00 0.0483 0.0206

Mars 69066-05-03 08:10 G 26947020.71 26947020.84 26947020.97 0.1878 0.0218

Earth 69067-01-28 20:24 G 26947291.23 26947291.35 26947291.48 0.2637 0.1023

Moon 69067-01-28 20:53 G 26947291.25 26947291.37 26947291.50 0.2630 0.1009 *

Mars 69067-03-18 05:17 G 26947339.58 26947339.72 26947339.87 0.1647 0.0192

Jupiter 69071-07-25 09:51 G 26948929.78 26948929.91 26948930.05 0.0545 0.0167

Venus 69074-01-22 23:03 G 26949842.34 26949842.46 26949842.59 0.3680 0.0684

Mars 69075-09-23 13:12 G 26950450.94 26950451.05 26950451.16 0.1873 0.0939

Mars 69076-08-07 11:46 G 26950769.88 26950769.99 26950770.10 0.1651 0.1036

Jupiter 69077-06-07 10:19 G 26951073.77 26951073.93 26951074.09 0.0483 0.0044

Earth 69077-08-02 14:24 G 26951130.02 26951130.10 26951130.18 0.2694 0.2002

Moon 69077-08-02 14:39 G 26951130.04 26951130.11 26951130.18 0.2687 0.2073 *

Saturn 69079-01-08 03:22 G 26951653.56 26951653.64 26951653.72 0.0276 0.0234

Saturn 69079-04-06 18:00 G 26951742.11 26951742.25 26951742.39 0.0276 0.0091

Saturn 69079-07-04 08:24 G 26951830.70 26951830.85 26951830.99 0.0276 0.0049

Saturn 69079-09-30 22:19 G 26951919.32 26951919.43 26951919.54 0.0276 0.0186

Moon 69080-01-31 20:24 G 26952042.21 26952042.35 26952042.49 0.2632 0.0597

Earth 69080-01-31 20:39 G 26952042.23 26952042.36 26952042.50 0.2638 0.0571 *

Jupiter 69083-05-13 11:31 G 26953239.84 26953239.98 26953240.13 0.0545 0.0045

Earth 69084-07-26 06:43 G 26953679.68 26953679.78 26953679.87 0.2696 0.1660

Moon 69084-07-26 07:12 G 26953679.71 26953679.80 26953679.89 0.2702 0.1674 *

Uranus 69086-01-04 16:34 G 26954207.13 26954207.19 26954207.27 0.0136 0.0121

Uranus 69086-04-02 20:39 G 26954295.27 26954295.36 26954295.47 0.0136 0.0100

Uranus 69086-06-30 00:58 G 26954383.42 26954383.54 26954383.66 0.0136 0.0079

Uranus 69086-09-26 05:03 G 26954471.58 26954471.71 26954471.85 0.0136 0.0058

Uranus 69086-12-23 09:07 G 26954559.74 26954559.88 26954560.02 0.0136 0.0038

Uranus 69087-03-21 13:12 G 26954647.90 26954648.05 26954648.20 0.0136 0.0017

Uranus 69087-06-17 17:17 G 26954736.07 26954736.22 26954736.36 0.0136 0.0003

Uranus 69087-09-13 21:07 G 26954824.24 26954824.38 26954824.53 0.0136 0.0024

Mars 69087-12-04 16:05 G 26954906.12 26954906.17 26954906.21 0.1641 0.1538

Uranus 69087-12-11 01:12 G 26954912.41 26954912.55 26954912.69 0.0136 0.0043

Uranus 69088-03-08 05:03 G 26955000.58 26955000.71 26955000.84 0.0136 0.0063

Uranus 69088-06-04 08:53 G 26955088.76 26955088.87 26955088.99 0.0136 0.0084

Uranus 69088-08-31 12:43 G 26955176.95 26955177.03 26955177.13 0.0136 0.0103

Uranus 69088-11-27 16:48 G 26955265.14 26955265.20 26955265.26 0.0136 0.0123

Jupiter 69089-03-26 12:00 G 26955383.84 26955384.00 26955384.15 0.0483 0.0123

Moon 69093-02-02 20:24 G 26956793.26 26956793.35 26956793.44 0.2635 0.2014

Earth 69093-02-02 21:22 G 26956793.32 26956793.39 26956793.47 0.2639 0.2222 *

Saturn 69093-10-19 16:05 G 26957052.14 26957052.17 26957052.20 0.0283 0.0275

Saturn 69094-01-16 08:24 G 26957140.71 26957140.85 26957140.99 0.0283 0.0121

Saturn 69094-04-15 00:58 G 26957229.38 26957229.54 26957229.70 0.0283 0.0037

Saturn 69094-07-12 17:46 G 26957318.13 26957318.24 26957318.36 0.0283 0.0199

Jupiter 69095-03-01 13:41 G 26957549.94 26957550.07 26957550.20 0.0545 0.0247

Mars 69096-06-11 03:22 G 26958017.56 26958017.64 26958017.71 0.1882 0.1539

Mars 69097-04-25 23:03 G 26958336.34 26958336.46 26958336.59 0.1644 0.0758

Earth 69097-07-29 03:07 G 26958430.51 26958430.63 26958430.75 0.2695 0.0324

Moon 69097-07-29 04:05 G 26958430.55 26958430.67 26958430.79 0.2696 0.0186 *

Earth 69100-01-27 02:10 G 26959342.53 26959342.59 26959342.66 0.2636 0.2261

Moon 69100-01-27 03:07 G 26959342.56 26959342.63 26959342.71 0.2632 0.2132 *

Jupiter 69101-01-13 13:55 G 26959693.95 26959694.08 26959694.21 0.0483 0.0283

Jupiter 69101-04-13 05:46 G 26959783.65 26959783.74 26959783.84 0.0483 0.0388

Mars 69105-11-02 08:10 G 26961447.72 26961447.84 26961447.97 0.1878 0.0357

Mars 69106-09-17 05:46 G 26961766.59 26961766.74 26961766.88 0.1647 0.0079

Jupiter 69106-12-19 15:36 G 26961860.07 26961860.15 26961860.23 0.0545 0.0450

Jupiter 69107-03-19 07:55 G 26961949.74 26961949.83 26961949.92 0.0545 0.0407

Saturn 69108-08-24 17:31 G 26962474.11 26962474.23 26962474.36 0.0276 0.0148

Saturn 69108-11-21 08:10 G 26962562.68 26962562.84 26962562.99 0.0276 0.0011

Saturn 69109-02-17 22:05 G 26962651.29 26962651.42 26962651.55 0.0276 0.0131

Saturn 69109-05-17 11:46 G 26962739.96 26962739.99 26962740.03 0.0276 0.0267

Earth 69110-08-01 23:31 G 26963181.37 26963181.48 26963181.59 0.2694 0.0982

Moon 69110-08-02 00:15 G 26963181.40 26963181.51 26963181.62 0.2691 0.1076 *

Venus 69112-07-04 17:17 G 26963884.12 26963884.22 26963884.32 0.3691 0.1426

Jupiter 69112-11-01 15:36 G 26964004.09 26964004.15 26964004.21 0.0484 0.0446

Earth 69113-01-30 02:10 G 26964093.46 26964093.59 26964093.72 0.2637 0.0726

Moon 69113-01-30 02:39 G 26964093.48 26964093.61 26964093.75 0.2630 0.0658 *

Jupiter 69113-01-30 07:12 G 26964093.65 26964093.80 26964093.94 0.0483 0.0217 *

Mars 69115-03-25 13:27 G 26964877.94 26964878.06 26964878.17 0.1873 0.0803

Mars 69116-02-07 12:00 G 26965196.88 26965197.00 26965197.12 0.1651 0.0900

Venus 69118-01-18 11:31 G 26965907.88 26965907.98 26965908.08 0.3690 0.1846

Jupiter 69119-01-05 09:51 G 26966259.78 26966259.91 26966260.04 0.0545 0.0201

Saturn 69123-06-06 07:55 G 26967872.71 26967872.83 26967872.96 0.0283 0.0176

Moon 69123-08-04 19:41 G 26967932.25 26967932.32 26967932.38 0.2686 0.2209

Earth 69123-08-04 19:27 G 26967932.25 26967932.31 26967932.38 0.2693 0.2240 *

Saturn 69123-09-03 00:29 G 26967961.36 26967961.52 26967961.68 0.0283 0.0020

Saturn 69123-11-30 17:17 G 26968050.09 26968050.22 26968050.36 0.0283 0.0142

Jupiter 69124-11-18 09:07 G 26968403.72 26968403.88 26968404.04 0.0483 0.0057

Venus 69125-02-13 23:31 G 26968491.38 26968491.48 26968491.58 0.3679 0.2302

Moon 69126-02-02 01:55 G 26968844.44 26968844.58 26968844.71 0.2632 0.0761

Earth 69126-02-02 02:24 G 26968844.47 26968844.60 26968844.73 0.2638 0.0873 *

Uranus 69126-10-22 08:53 G 26969106.83 26969106.87 26969106.94 0.0142 0.0135

Uranus 69127-01-18 14:53 G 26969195.02 26969195.12 26969195.23 0.0142 0.0109

Uranus 69127-04-16 20:53 G 26969283.24 26969283.37 26969283.51 0.0142 0.0082

Uranus 69127-07-14 02:53 G 26969371.47 26969371.62 26969371.78 0.0142 0.0056

Uranus 69127-10-10 08:53 G 26969459.71 26969459.87 26969460.04 0.0142 0.0030

Uranus 69128-01-06 14:53 G 26969547.96 26969548.12 26969548.29 0.0142 0.0005

Uranus 69128-04-03 21:07 G 26969636.21 26969636.38 26969636.54 0.0142 0.0023

Uranus 69128-07-01 03:07 G 26969724.47 26969724.63 26969724.79 0.0142 0.0050

Uranus 69128-09-27 09:22 G 26969812.75 26969812.89 26969813.03 0.0142 0.0077

Uranus 69128-12-24 15:22 G 26969901.04 26969901.14 26969901.26 0.0142 0.0105

Uranus 69129-03-22 21:36 G 26969989.35 26969989.40 26969989.47 0.0142 0.0132

Earth 69130-07-28 11:46 G 26970481.89 26970481.99 26970482.10 0.2696 0.1407

Moon 69130-07-28 12:29 G 26970481.91 26970482.02 26970482.12 0.2702 0.1273 *

Venus 69130-08-30 22:34 G 26970515.34 26970515.44 26970515.54 0.3681 0.2405

Jupiter 69130-10-24 10:19 G 26970569.79 26970569.93 26970570.07 0.0545 0.0033

Mars 69135-12-12 03:36 G 26972444.59 26972444.65 26972444.71 0.1882 0.1680

Jupiter 69136-09-06 11:03 G 26972713.80 26972713.96 26972714.11 0.0483 0.0106

Mars 69136-10-25 23:17 G 26972763.35 26972763.47 26972763.59 0.1644 0.0874

Neptune 69136-10-31 04:34 G 26972768.67 26972768.69 26972768.75 0.0090 0.0086

Neptune 69137-01-27 06:43 G 26972856.71 26972856.78 26972856.87 0.0090 0.0077

Neptune 69137-04-25 08:53 G 26972944.77 26972944.87 26972944.97 0.0089 0.0068

Neptune 69137-07-22 10:34 G 26973032.84 26973032.94 26973033.06 0.0089 0.0059

Neptune 69137-10-18 12:29 G 26973120.91 26973121.02 26973121.15 0.0089 0.0051

Saturn 69138-01-11 20:10 G 26973206.22 26973206.34 26973206.46 0.0276 0.0177

Neptune 69138-01-14 14:24 G 26973208.97 26973209.10 26973209.24 0.0089 0.0042

Saturn 69138-04-10 10:34 G 26973294.79 26973294.94 26973295.09 0.0276 0.0035

Neptune 69138-04-12 16:19 G 26973297.05 26973297.18 26973297.32 0.0089 0.0034

Saturn 69138-07-08 00:43 G 26973383.40 26973383.53 26973383.67 0.0276 0.0104

Neptune 69138-07-09 18:15 G 26973385.12 26973385.26 26973385.40 0.0089 0.0025

Saturn 69138-10-04 14:39 G 26973472.04 26973472.11 26973472.18 0.0276 0.0240

Neptune 69138-10-05 20:10 G 26973473.19 26973473.34 26973473.48 0.0089 0.0017

Neptune 69139-01-01 21:51 G 26973561.27 26973561.41 26973561.56 0.0089 0.0009

Moon 69139-02-05 02:10 G 26973595.55 26973595.59 26973595.63 0.2636 0.2501

Earth 69139-02-05 03:07 G 26973595.60 26973595.63 26973595.67 0.2639 0.2526 *

Neptune 69139-03-30 23:46 G 26973649.34 26973649.49 26973649.64 0.0089 0.0001

Neptune 69139-06-27 01:41 G 26973737.42 26973737.57 26973737.71 0.0089 0.0009

Neptune 69139-09-23 03:22 G 26973825.50 26973825.64 26973825.79 0.0089 0.0017

Neptune 69139-12-20 05:03 G 26973913.58 26973913.71 26973913.86 0.0089 0.0026

Neptune 69140-03-17 06:58 G 26974001.66 26974001.79 26974001.93 0.0089 0.0033

Neptune 69140-06-13 08:39 G 26974089.74 26974089.86 26974090.00 0.0089 0.0042

Neptune 69140-09-09 10:34 G 26974177.82 26974177.94 26974178.06 0.0089 0.0050

Neptune 69140-12-06 12:00 G 26974265.91 26974266.00 26974266.13 0.0089 0.0059

Neptune 69141-03-04 13:55 G 26974353.99 26974354.08 26974354.19 0.0089 0.0066

Neptune 69141-05-31 15:36 G 26974442.09 26974442.15 26974442.24 0.0089 0.0075

Neptune 69141-08-27 17:31 G 26974530.18 26974530.23 26974530.29 0.0089 0.0082

Jupiter 69142-08-12 11:46 G 26974879.86 26974879.99 26974880.12 0.0545 0.0248

Earth 69143-07-31 08:24 G 26975232.73 26975232.85 26975232.97 0.2695 0.0108

Moon 69143-07-31 09:22 G 26975232.76 26975232.89 26975233.01 0.2695 0.0108 *

Mars 69145-05-03 08:24 G 26975874.72 26975874.85 26975874.97 0.1878 0.0481

Earth 69146-01-28 07:55 G 26976144.74 26976144.83 26976144.92 0.2636 0.1979

Moon 69146-01-28 08:39 G 26976144.77 26976144.86 26976144.95 0.2631 0.1954 *

Mars 69146-03-18 06:00 G 26976193.61 26976193.75 26976193.89 0.1647 0.0069

Jupiter 69148-06-25 12:43 G 26977023.90 26977024.03 26977024.16 0.0483 0.0270

Jupiter 69148-09-23 04:34 G 26977113.60 26977113.69 26977113.78 0.0483 0.0401

Saturn 69152-10-23 08:39 G 26978604.77 26978604.86 26978604.96 0.0283 0.0220

Saturn 69153-01-20 00:58 G 26978693.39 26978693.54 26978693.70 0.0283 0.0065

Saturn 69153-04-18 17:46 G 26978782.09 26978782.24 26978782.39 0.0283 0.0094

Saturn 69153-07-16 10:48 G 26978870.89 26978870.95 26978871.02 0.0283 0.0257

Jupiter 69154-05-31 13:27 G 26979189.99 26979190.06 26979190.14 0.0545 0.0456

Jupiter 69154-08-29 06:00 G 26979279.66 26979279.75 26979279.84 0.0546 0.0403

Mars 69154-09-23 13:12 G 26979304.93 26979305.05 26979305.17 0.1873 0.0690

Mars 69155-08-08 12:29 G 26979623.89 26979624.02 26979624.15 0.1651 0.0766

Earth 69156-08-02 04:34 G 26979983.58 26979983.69 26979983.80 0.2694 0.1220

Moon 69156-08-02 05:17 G 26979983.61 26979983.72 26979983.82 0.2690 0.1299 *

Earth 69159-01-31 07:55 G 26980895.69 26980895.83 26980895.96 0.2637 0.0437

Moon 69159-01-31 08:10 G 26980895.70 26980895.84 26980895.98 0.2631 0.0400 *

Jupiter 69160-04-13 14:39 G 26981334.04 26981334.11 26981334.18 0.0483 0.0428

Jupiter 69160-07-12 06:15 G 26981423.62 26981423.76 26981423.90 0.0483 0.0235

Earth 69163-07-26 20:24 G 26982533.31 26982533.35 26982533.39 0.2697 0.2518

Moon 69163-07-26 20:39 G 26982533.31 26982533.36 26982533.41 0.2704 0.2445 *

Venus 69163-07-26 21:07 G 26982533.35 26982533.38 26982533.41 0.3692 0.3545 *

Mars 69164-02-13 19:12 G 26982735.26 26982735.30 26982735.33 0.1868 0.1775

Mars 69164-12-28 18:29 G 26983054.25 26983054.27 26983054.29 0.1655 0.1635

Jupiter 69166-06-17 08:24 G 26983589.72 26983589.85 26983589.98 0.0545 0.0209

Saturn 69167-05-31 19:41 G 26983938.24 26983938.32 26983938.40 0.0276 0.0234

Saturn 69167-08-28 10:19 G 26984026.79 26984026.93 26984027.08 0.0276 0.0091

Saturn 69167-11-25 00:43 G 26984115.38 26984115.53 26984115.68 0.0276 0.0049

Saturn 69168-02-21 14:39 G 26984204.01 26984204.11 26984204.22 0.0276 0.0186

Venus 69169-02-08 15:22 G 26984557.03 26984557.14 26984557.26 0.3691 0.0214

Earth 69169-08-05 00:43 G 26984734.48 26984734.53 26984734.57 0.2693 0.2476

Moon 69169-08-05 00:43 G 26984734.49 26984734.53 26984734.57 0.2686 0.2492 *

Uranus 69170-01-25 23:31 G 26984908.41 26984908.48 26984908.56 0.0136 0.0115

Uranus 69170-04-24 03:36 G 26984996.55 26984996.65 26984996.76 0.0136 0.0095

Uranus 69170-07-21 07:41 G 26985084.71 26985084.82 26985084.95 0.0136 0.0074

Uranus 69170-10-17 12:00 G 26985172.86 26985173.00 26985173.14 0.0136 0.0053

Uranus 69171-01-13 16:05 G 26985261.03 26985261.17 26985261.31 0.0136 0.0033

Uranus 69171-04-11 20:10 G 26985349.19 26985349.34 26985349.48 0.0136 0.0012

Uranus 69171-07-09 00:00 G 26985437.36 26985437.50 26985437.65 0.0136 0.0009

Uranus 69171-10-05 04:05 G 26985525.53 26985525.67 26985525.81 0.0136 0.0028

Uranus 69172-01-01 08:10 G 26985613.70 26985613.84 26985613.97 0.0136 0.0049

Moon 69172-02-03 07:27 G 26985646.69 26985646.81 26985646.94 0.2632 0.1134

Earth 69172-02-03 08:10 G 26985646.72 26985646.84 26985646.97 0.2638 0.1180 *

Uranus 69172-03-29 12:00 G 26985701.87 26985702.00 26985702.12 0.0136 0.0069

Jupiter 69172-04-30 07:41 G 26985733.66 26985733.82 26985733.98 0.0483 0.0066

Uranus 69172-06-25 15:51 G 26985790.05 26985790.16 26985790.27 0.0136 0.0088

Uranus 69172-09-21 19:41 G 26985878.24 26985878.32 26985878.41 0.0136 0.0108

Uranus 69172-12-18 23:17 G 26985966.44 26985966.47 26985966.53 0.0136 0.0129

Venus 69174-08-25 09:36 G 26986580.84 26986580.90 26986580.96 0.3690 0.3044

Mars 69175-06-12 03:51 G 26986871.63 26986871.66 26986871.69 0.1882 0.1823

Mars 69176-04-25 23:31 G 26987190.37 26987190.48 26987190.60 0.1644 0.1000

Earth 69176-07-28 17:03 G 26987284.10 26987284.21 26987284.32 0.2696 0.1150

Moon 69176-07-28 17:46 G 26987284.13 26987284.24 26987284.35 0.2700 0.1148 *

Jupiter 69178-04-05 10:05 G 26987899.78 26987899.92 26987900.06 0.0545 0.0001

Venus 69181-09-20 22:48 G 26989164.32 26989164.45 26989164.58 0.3680 0.0650

Saturn 69182-03-12 08:10 G 26989336.81 26989336.84 26989336.87 0.0283 0.0277

Saturn 69182-06-09 00:15 G 26989425.37 26989425.51 26989425.65 0.0283 0.0123

Saturn 69182-09-05 16:48 G 26989514.05 26989514.20 26989514.36 0.0283 0.0036

Saturn 69182-12-03 09:51 G 26989602.80 26989602.91 26989603.03 0.0283 0.0196

Jupiter 69184-02-17 09:36 G 26990043.74 26990043.90 26990044.06 0.0483 0.0094

Mars 69184-11-01 08:24 G 26990301.73 26990301.85 26990301.97 0.1878 0.0606

Mars 69185-09-16 06:15 G 26990620.62 26990620.76 26990620.90 0.1647 0.0196

Pluto 69188-02-17 23:46 G 26991505.43 26991505.49 26991505.57 0.0065 0.0057

Pluto 69188-05-16 00:29 G 26991593.43 26991593.52 26991593.64 0.0065 0.0046

Pluto 69188-08-12 01:27 G 26991681.43 26991681.56 26991681.69 0.0065 0.0035

Pluto 69188-11-08 01:55 G 26991769.45 26991769.58 26991769.73 0.0065 0.0025

Pluto 69189-02-04 02:53 G 26991857.47 26991857.62 26991857.77 0.0065 0.0014

Pluto 69189-05-03 03:36 G 26991945.50 26991945.65 26991945.80 0.0065 0.0003

Pluto 69189-07-30 04:19 G 26992033.53 26992033.68 26992033.83 0.0065 0.0008

Earth 69189-07-31 13:27 G 26992034.94 26992035.06 26992035.18 0.2695 0.0185

Moon 69189-07-31 14:24 G 26992034.98 26992035.10 26992035.22 0.2695 0.0345 *

Pluto 69189-10-26 05:03 G 26992121.57 26992121.71 26992121.86 0.0065 0.0019

Pluto 69190-01-22 05:46 G 26992209.61 26992209.74 26992209.88 0.0065 0.0030

Jupiter 69190-01-22 10:34 G 26992209.81 26992209.94 26992210.07 0.0545 0.0236 *

Pluto 69190-04-20 06:29 G 26992297.66 26992297.77 26992297.89 0.0065 0.0041

Pluto 69190-07-17 06:58 G 26992385.71 26992385.79 26992385.90 0.0066 0.0052

Pluto 69190-10-13 07:41 G 26992473.79 26992473.82 26992473.88 0.0066 0.0063

Earth 69192-01-29 13:27 G 26992946.96 26992947.06 26992947.17 0.2636 0.1692

Moon 69192-01-29 14:24 G 26992946.99 26992947.10 26992947.21 0.2631 0.1529 *

Mars 69194-03-24 13:41 G 26993731.94 26993732.07 26993732.19 0.1873 0.0548

Mars 69195-02-06 12:43 G 26994050.90 26994051.03 26994051.16 0.1651 0.0642

Jupiter 69195-12-06 11:31 G 26994353.85 26994353.98 26994354.12 0.0484 0.0254

Jupiter 69196-03-05 03:36 G 26994443.57 26994443.65 26994443.73 0.0483 0.0419

Saturn 69196-10-17 22:05 G 26994670.38 26994670.42 26994670.47 0.0276 0.0263

Saturn 69197-01-14 12:58 G 26994758.90 26994759.04 26994759.18 0.0276 0.0119

Saturn 69197-04-13 03:22 G 26994847.49 26994847.64 26994847.79 0.0276 0.0022

Saturn 69197-07-10 17:31 G 26994936.11 26994936.23 26994936.35 0.0276 0.0159

Jupiter 69201-11-10 11:46 G 26996519.91 26996519.99 26996520.07 0.0545 0.0455

Jupiter 69202-02-08 04:05 G 26996609.58 26996609.67 26996609.77 0.0545 0.0403

Earth 69202-08-03 09:51 G 26996785.81 26996785.91 26996786.01 0.2694 0.1466

Moon 69202-08-03 10:19 G 26996785.83 26996785.93 26996786.03 0.2689 0.1470 *

Mars 69203-08-14 18:58 G 26997162.23 26997162.29 26997162.34 0.1868 0.1666

Mars 69204-06-28 18:58 G 26997481.23 26997481.29 26997481.35 0.1655 0.1497

Moon 69205-01-31 13:27 G 26997697.93 26997698.06 26997698.20 0.2631 0.0196

Earth 69205-01-31 13:27 G 26997697.93 26997698.06 26997698.20 0.2637 0.0163 *

Jupiter 69207-09-24 13:27 G 26998663.98 26998664.06 26998664.14 0.0483 0.0416

Jupiter 69207-12-23 04:48 G 26998753.57 26998753.70 26998753.84 0.0483 0.0247

Earth 69209-07-27 01:41 G 26999335.50 26999335.57 26999335.63 0.2697 0.2258

Moon 69209-07-27 01:55 G 26999335.51 26999335.58 26999335.64 0.2704 0.2291 *

Uranus 69210-11-11 16:05 G 26999808.11 26999808.17 26999808.25 0.0142 0.0127

Uranus 69211-02-07 21:51 G 26999896.31 26999896.41 26999896.54 0.0142 0.0102

Uranus 69211-05-07 03:51 G 26999984.53 26999984.66 26999984.81 0.0142 0.0076

Uranus 69211-08-03 09:51 G 27000072.76 27000072.91 27000073.07 0.0142 0.0049

Saturn 69211-10-27 01:27 G 27000157.43 27000157.56 27000157.69 0.0283 0.0163

Uranus 69211-10-30 15:51 G 27000161.00 27000161.16 27000161.33 0.0142 0.0023

Saturn 69212-01-23 18:00 G 27000246.09 27000246.25 27000246.40 0.0283 0.0010

Uranus 69212-01-26 21:51 G 27000249.25 27000249.41 27000249.58 0.0142 0.0005

Saturn 69212-04-21 10:48 G 27000334.81 27000334.95 27000335.08 0.0283 0.0153

Uranus 69212-04-24 04:05 G 27000337.50 27000337.67 27000337.83 0.0142 0.0030

Uranus 69212-07-21 10:05 G 27000425.77 27000425.92 27000426.08 0.0142 0.0057

Uranus 69212-10-17 16:19 G 27000514.04 27000514.18 27000514.32 0.0142 0.0084

Uranus 69213-01-13 22:34 G 27000602.33 27000602.44 27000602.54 0.0142 0.0111

Uranus 69213-04-12 04:19 G 27000690.67 27000690.68 27000690.73 0.0142 0.0139

Jupiter 69213-11-27 06:15 G 27000919.63 27000919.76 27000919.89 0.0545 0.0203

Mars 69215-10-26 00:00 G 27001617.40 27001617.50 27001617.60 0.1644 0.1129

Moon 69218-02-03 13:12 G 27002448.93 27002449.05 27002449.17 0.2632 0.1384

Earth 69218-02-03 13:55 G 27002448.97 27002449.08 27002449.20 0.2638 0.1478 *

Jupiter 69219-10-11 06:43 G 27003063.62 27003063.78 27003063.93 0.0483 0.0083

Neptune 69220-01-06 12:43 G 27003150.99 27003151.03 27003151.10 0.0088 0.0083

Venus 69220-03-01 19:12 G 27003206.21 27003206.30 27003206.39 0.3692 0.2281

Neptune 69220-04-03 15:07 G 27003239.06 27003239.13 27003239.23 0.0088 0.0074

Neptune 69220-06-30 17:46 G 27003327.13 27003327.24 27003327.35 0.0088 0.0065

Neptune 69220-09-26 19:55 G 27003415.22 27003415.33 27003415.47 0.0088 0.0057

Neptune 69220-12-23 22:19 G 27003503.31 27003503.43 27003503.59 0.0088 0.0048

Neptune 69221-03-22 00:58 G 27003591.40 27003591.54 27003591.70 0.0088 0.0039

Neptune 69221-06-18 03:22 G 27003679.49 27003679.64 27003679.81 0.0088 0.0030

Neptune 69221-09-14 06:00 G 27003767.59 27003767.75 27003767.92 0.0088 0.0021

Neptune 69221-12-11 08:24 G 27003855.69 27003855.85 27003856.02 0.0088 0.0012

Neptune 69222-03-09 11:03 G 27003943.79 27003943.96 27003944.13 0.0088 0.0003

Neptune 69222-06-05 13:27 G 27004031.89 27004032.06 27004032.23 0.0088 0.0007

Earth 69222-07-29 22:19 G 27004086.31 27004086.43 27004086.54 0.2696 0.0903

Moon 69222-07-29 23:03 G 27004086.34 27004086.46 27004086.58 0.2698 0.0745 *

Neptune 69222-09-01 15:51 G 27004120.00 27004120.16 27004120.33 0.0088 0.0016

Neptune 69222-11-28 18:29 G 27004208.11 27004208.27 27004208.44 0.0088 0.0025

Neptune 69223-02-24 20:53 G 27004296.22 27004296.37 27004296.54 0.0088 0.0034

Neptune 69223-05-23 23:31 G 27004384.34 27004384.48 27004384.63 0.0088 0.0043

Neptune 69223-08-20 01:55 G 27004472.45 27004472.58 27004472.73 0.0088 0.0053

Neptune 69223-11-16 04:34 G 27004560.58 27004560.69 27004560.82 0.0088 0.0062

Neptune 69224-02-12 07:12 G 27004648.71 27004648.80 27004648.90 0.0088 0.0071

Mars 69224-05-02 08:39 G 27004728.74 27004728.86 27004728.98 0.1878 0.0752

Neptune 69224-05-10 09:36 G 27004736.85 27004736.90 27004736.98 0.0088 0.0081

Mars 69225-03-17 06:43 G 27005047.64 27005047.78 27005047.92 0.1647 0.0321

Jupiter 69225-09-15 08:24 G 27005229.71 27005229.85 27005230.00 0.0545 0.0015

Venus 69225-09-15 13:27 G 27005229.96 27005230.06 27005230.17 0.3691 0.1045 *

Saturn 69226-06-03 12:43 G 27005490.91 27005491.03 27005491.15 0.0276 0.0174

Saturn 69226-08-31 03:22 G 27005579.49 27005579.64 27005579.79 0.0276 0.0033

Saturn 69226-11-27 17:31 G 27005668.09 27005668.23 27005668.37 0.0276 0.0106

Saturn 69227-02-24 07:27 G 27005756.74 27005756.81 27005756.88 0.0276 0.0241

Jupiter 69231-07-30 08:10 G 27007373.68 27007373.84 27007374.00 0.0483 0.0085

Venus 69232-10-11 23:17 G 27007813.45 27007813.47 27007813.50 0.3679 0.3575

Mars 69233-09-22 13:41 G 27008158.94 27008159.07 27008159.19 0.1873 0.0422

Mars 69234-08-07 12:58 G 27008477.91 27008478.04 27008478.18 0.1651 0.0513

Earth 69235-08-01 18:43 G 27008837.16 27008837.28 27008837.40 0.2695 0.0425

Moon 69235-08-01 19:27 G 27008837.20 27008837.31 27008837.43 0.2694 0.0453 *

Jupiter 69237-07-04 10:05 G 27009539.79 27009539.92 27009540.06 0.0545 0.0206

Earth 69238-01-29 19:12 G 27009749.18 27009749.30 27009749.41 0.2636 0.1401

Moon 69238-01-29 19:55 G 27009749.22 27009749.33 27009749.45 0.2631 0.1403 *

Venus 69238-04-27 22:05 G 27009837.30 27009837.42 27009837.55 0.3680 0.1023

Saturn 69241-03-15 00:43 G 27010889.44 27010889.53 27010889.63 0.0283 0.0221

Saturn 69241-06-11 17:03 G 27010978.06 27010978.21 27010978.37 0.0283 0.0067

Saturn 69241-09-08 09:51 G 27011066.76 27011066.91 27011067.06 0.0283 0.0093

Saturn 69241-12-06 02:53 G 27011155.56 27011155.62 27011155.69 0.0283 0.0255

Mars 69243-02-12 19:12 G 27011589.23 27011589.30 27011589.37 0.1868 0.1528

Jupiter 69243-05-18 10:19 G 27011683.79 27011683.93 27011684.06 0.0484 0.0244

Jupiter 69243-08-16 02:10 G 27011773.52 27011773.59 27011773.66 0.0483 0.0429

Mars 69243-12-28 19:12 G 27011908.22 27011908.30 27011908.38 0.1655 0.1368

Earth 69248-08-03 14:53 G 27013588.03 27013588.12 27013588.21 0.2694 0.1702

Moon 69248-08-03 15:22 G 27013588.05 27013588.14 27013588.23 0.2688 0.1802 *

Jupiter 69249-04-22 10:34 G 27013849.86 27013849.94 27013850.02 0.0544 0.0443

Jupiter 69249-07-21 02:53 G 27013939.53 27013939.62 27013939.71 0.0545 0.0414

Moon 69251-02-01 18:58 G 27014500.15 27014500.29 27014500.43 0.2631 0.0199

Earth 69251-02-01 19:12 G 27014500.16 27014500.30 27014500.44 0.2637 0.0160 *

Uranus 69253-11-19 01:55 G 27015521.56 27015521.58 27015521.63 0.0136 0.0132

Uranus 69254-02-15 06:15 G 27015609.68 27015609.76 27015609.85 0.0136 0.0111

Uranus 69254-05-14 10:19 G 27015697.83 27015697.93 27015698.05 0.0136 0.0090

Uranus 69254-08-10 14:39 G 27015785.98 27015786.11 27015786.24 0.0136 0.0069

Uranus 69254-11-06 18:43 G 27015874.14 27015874.28 27015874.42 0.0136 0.0049

Uranus 69255-02-02 22:48 G 27015962.31 27015962.45 27015962.59 0.0136 0.0028

Jupiter 69255-03-06 12:15 G 27015993.93 27015994.01 27015994.10 0.0484 0.0403

Mars 69255-04-26 00:15 G 27016044.42 27016044.51 27016044.60 0.1644 0.1243

Uranus 69255-05-02 02:53 G 27016050.47 27016050.62 27016050.77 0.0136 0.0008

Jupiter 69255-06-04 03:51 G 27016083.52 27016083.66 27016083.79 0.0484 0.0262

Earth 69255-07-28 06:43 G 27016137.70 27016137.78 27016137.86 0.2697 0.2002

Moon 69255-07-28 07:12 G 27016137.71 27016137.80 27016137.88 0.2703 0.1945 *

Uranus 69255-07-29 06:43 G 27016138.64 27016138.78 27016138.93 0.0136 0.0014

Saturn 69255-10-21 15:07 G 27016223.03 27016223.13 27016223.23 0.0276 0.0205

Uranus 69255-10-25 10:48 G 27016226.81 27016226.95 27016227.09 0.0136 0.0033

Saturn 69256-01-18 05:46 G 27016311.59 27016311.74 27016311.89 0.0276 0.0062

Uranus 69256-01-21 14:39 G 27016314.98 27016315.11 27016315.25 0.0136 0.0053

Saturn 69256-04-15 20:10 G 27016400.19 27016400.34 27016400.48 0.0276 0.0078

Uranus 69256-04-18 18:29 G 27016403.16 27016403.27 27016403.40 0.0136 0.0074

Saturn 69256-07-13 10:05 G 27016488.83 27016488.92 27016489.01 0.0276 0.0215

Uranus 69256-07-15 22:34 G 27016491.34 27016491.44 27016491.55 0.0136 0.0093

Uranus 69256-10-12 02:24 G 27016579.53 27016579.60 27016579.69 0.0136 0.0113

Uranus 69257-01-08 06:15 G 27016667.74 27016667.76 27016667.80 0.0136 0.0133

Jupiter 69261-05-09 04:34 G 27018249.55 27018249.69 27018249.82 0.0545 0.0203

Mars 69263-11-01 08:39 G 27019155.74 27019155.86 27019155.97 0.1878 0.0866

Moon 69264-02-04 18:58 G 27019251.18 27019251.29 27019251.40 0.2634 0.1686

Earth 69264-02-04 19:41 G 27019251.22 27019251.32 27019251.43 0.2638 0.1791 *

Mars 69264-09-15 06:58 G 27019474.65 27019474.79 27019474.93 0.1647 0.0445

Jupiter 69267-03-23 05:17 G 27020393.56 27020393.72 27020393.87 0.0483 0.0093

Earth 69268-07-30 03:22 G 27020888.52 27020888.64 27020888.76 0.2696 0.0650

Moon 69268-07-30 04:19 G 27020888.56 27020888.68 27020888.80 0.2698 0.0610 *

Saturn 69270-08-02 02:24 G 27021621.54 27021621.60 27021621.67 0.0283 0.0256

Saturn 69270-10-29 18:43 G 27021710.13 27021710.28 27021710.42 0.0283 0.0103

Saturn 69271-01-26 11:17 G 27021798.81 27021798.97 27021799.12 0.0283 0.0055

Earth 69271-01-28 01:12 G 27021800.54 27021800.55 27021800.56 0.2635 0.2617

Moon 69271-01-28 02:10 G 27021800.57 27021800.59 27021800.62 0.2632 0.2578

Saturn 69271-04-25 04:05 G 27021887.57 27021887.67 27021887.78 0.0283 0.0216

Jupiter 69273-02-25 06:15 G 27022559.62 27022559.76 27022559.91 0.0545 0.0013

Mars 69273-03-23 13:41 G 27022585.94 27022586.07 27022586.20 0.1873 0.0293

Mars 69274-02-05 13:27 G 27022904.92 27022905.06 27022905.20 0.1651 0.0378

Pluto 69276-08-11 09:51 G 27023822.87 27023822.91 27023822.97 0.0079 0.0076

Venus 69276-10-06 17:31 G 27023879.12 27023879.23 27023879.33 0.3692 0.1035

Pluto 69276-11-07 11:31 G 27023910.88 27023910.98 27023911.11 0.0079 0.0055

Pluto 69277-02-03 13:27 G 27023998.92 27023999.06 27023999.22 0.0079 0.0033

Pluto 69277-05-02 15:22 G 27024086.98 27024087.14 27024087.31 0.0079 0.0012

Pluto 69277-07-29 17:17 G 27024175.06 27024175.22 27024175.39 0.0079 0.0009

Pluto 69277-10-25 19:12 G 27024263.15 27024263.30 27024263.45 0.0079 0.0030

Pluto 69278-01-21 20:53 G 27024351.25 27024351.37 27024351.50 0.0079 0.0051

Pluto 69278-04-19 22:34 G 27024439.39 27024439.44 27024439.51 0.0078 0.0072

Jupiter 69279-01-09 06:58 G 27024703.63 27024703.79 27024703.95 0.0483 0.0071

Earth 69281-08-01 23:46 G 27025639.38 27025639.49 27025639.61 0.2695 0.0671

Moon 69281-08-02 00:43 G 27025639.41 27025639.53 27025639.64 0.2692 0.0825 *

Venus 69282-04-22 11:31 G 27025902.90 27025902.98 27025903.07 0.3691 0.2244

Mars 69282-08-13 19:12 G 27026016.22 27026016.30 27026016.39 0.1868 0.1396

Mars 69283-06-28 19:27 G 27026335.22 27026335.31 27026335.41 0.1655 0.1239

Earth 69284-01-31 00:58 G 27026551.41 27026551.54 27026551.66 0.2636 0.1108

Moon 69284-01-31 01:27 G 27026551.43 27026551.56 27026551.69 0.2631 0.0967 *

Jupiter 69284-12-14 08:24 G 27026869.72 27026869.85 27026869.98 0.0545 0.0205

Saturn 69285-03-09 15:07 G 27026955.08 27026955.13 27026955.19 0.0276 0.0257

Saturn 69285-06-06 06:00 G 27027043.61 27027043.75 27027043.89 0.0276 0.0113

Saturn 69285-09-02 20:24 G 27027132.20 27027132.35 27027132.50 0.0276 0.0027

Saturn 69285-11-30 10:34 G 27027220.82 27027220.94 27027221.06 0.0276 0.0165

Venus 69289-05-18 22:34 G 27028486.33 27028486.44 27028486.55 0.3679 0.1956

Jupiter 69290-10-28 08:39 G 27029013.72 27029013.86 27029014.00 0.0483 0.0237

Jupiter 69291-01-26 00:29 G 27029103.46 27029103.52 27029103.59 0.0483 0.0436

Earth 69294-08-04 19:55 G 27030390.25 27030390.33 27030390.41 0.2694 0.1942

Moon 69294-08-04 20:24 G 27030390.27 27030390.35 27030390.43 0.2687 0.1906 *

Mars 69294-10-25 00:29 G 27030471.44 27030471.52 27030471.60 0.1644 0.1365

Uranus 69294-12-01 23:03 G 27030509.38 27030509.46 27030509.56 0.0142 0.0121

Venus 69294-12-02 21:22 G 27030510.30 27030510.39 27030510.48 0.3680 0.2697

Uranus 69295-02-28 05:03 G 27030597.59 27030597.71 27030597.84 0.0142 0.0094

Uranus 69295-05-27 11:03 G 27030685.81 27030685.96 27030686.10 0.0142 0.0068

Uranus 69295-08-23 16:48 G 27030774.05 27030774.20 27030774.36 0.0142 0.0043

Uranus 69295-11-19 22:48 G 27030862.29 27030862.45 27030862.62 0.0142 0.0016

Uranus 69296-02-16 04:48 G 27030950.54 27030950.70 27030950.87 0.0142 0.0011

Uranus 69296-05-14 11:03 G 27031038.79 27031038.96 27031039.12 0.0142 0.0037

Uranus 69296-08-10 17:03 G 27031127.06 27031127.21 27031127.36 0.0142 0.0064

Jupiter 69296-10-02 09:51 G 27031179.82 27031179.91 27031180.01 0.0545 0.0417

Uranus 69296-11-06 23:03 G 27031215.34 27031215.46 27031215.60 0.0142 0.0091

Jupiter 69296-12-31 02:24 G 27031269.52 27031269.60 27031269.68 0.0545 0.0440

Moon 69297-02-02 00:43 G 27031302.39 27031302.53 27031302.67 0.2631 0.0352

Earth 69297-02-02 00:58 G 27031302.41 27031302.54 27031302.68 0.2637 0.0467 *

Uranus 69297-02-03 05:17 G 27031303.63 27031303.72 27031303.82 0.0142 0.0118

Saturn 69300-03-18 17:46 G 27032442.12 27032442.24 27032442.37 0.0283 0.0162

Saturn 69300-06-15 10:19 G 27032530.77 27032530.93 27032531.09 0.0283 0.0006

Saturn 69300-09-12 03:07 G 27032619.50 27032619.63 27032619.76 0.0283 0.0154

Neptune 69301-05-02 02:39 G 27032851.59 27032851.61 27032851.65 0.0090 0.0088

Neptune 69301-07-29 04:48 G 27032939.63 27032939.70 27032939.77 0.0090 0.0079

Earth 69301-07-29 12:00 G 27032939.91 27032940.00 27032940.09 0.2697 0.1741

Moon 69301-07-29 12:29 G 27032939.93 27032940.02 27032940.12 0.2702 0.1683 *

Neptune 69301-10-25 06:29 G 27033027.69 27033027.77 27033027.87 0.0090 0.0071

Neptune 69302-01-21 08:24 G 27033115.75 27033115.85 27033115.96 0.0090 0.0062

Neptune 69302-04-19 10:19 G 27033203.82 27033203.93 27033204.06 0.0090 0.0053

Neptune 69302-07-16 12:15 G 27033291.89 27033292.01 27033292.14 0.0089 0.0045

Jupiter 69302-08-17 10:48 G 27033323.86 27033323.95 27033324.04 0.0484 0.0394

Neptune 69302-10-12 14:10 G 27033379.96 27033380.09 27033380.23 0.0089 0.0036

Jupiter 69302-11-15 02:10 G 27033413.46 27033413.59 27033413.73 0.0483 0.0271

Neptune 69303-01-08 16:05 G 27033468.03 27033468.17 27033468.31 0.0089 0.0028

Neptune 69303-04-06 17:46 G 27033556.10 27033556.24 27033556.39 0.0089 0.0020

Mars 69303-05-03 08:39 G 27033582.75 27033582.86 27033582.98 0.1878 0.1004

Neptune 69303-07-03 19:41 G 27033644.18 27033644.32 27033644.47 0.0089 0.0011

Neptune 69303-09-29 21:36 G 27033732.26 27033732.40 27033732.55 0.0089 0.0003

Neptune 69303-12-26 23:31 G 27033820.33 27033820.48 27033820.63 0.0089 0.0006

Mars 69304-03-17 07:12 G 27033901.67 27033901.80 27033901.94 0.1647 0.0570

Neptune 69304-03-24 01:12 G 27033908.41 27033908.55 27033908.70 0.0089 0.0015

Neptune 69304-06-20 03:07 G 27033996.49 27033996.63 27033996.77 0.0089 0.0023

Neptune 69304-09-16 05:03 G 27034084.57 27034084.71 27034084.84 0.0089 0.0031

Neptune 69304-12-13 06:29 G 27034172.65 27034172.77 27034172.91 0.0089 0.0040

Neptune 69305-03-11 08:24 G 27034260.73 27034260.85 27034260.98 0.0089 0.0047

Neptune 69305-06-07 10:05 G 27034348.82 27034348.92 27034349.04 0.0089 0.0056

Neptune 69305-09-03 12:00 G 27034436.90 27034437.00 27034437.11 0.0089 0.0064

Neptune 69305-11-30 13:41 G 27034524.99 27034525.07 27034525.16 0.0089 0.0072

Neptune 69306-02-26 15:36 G 27034613.09 27034613.15 27034613.21 0.0089 0.0080

Neptune 69306-05-25 17:03 G 27034701.20 27034701.21 27034701.25 0.0089 0.0088

Jupiter 69308-10-20 03:07 G 27035579.50 27035579.63 27035579.76 0.0545 0.0213

Moon 69310-02-06 00:29 G 27036053.43 27036053.52 27036053.61 0.2635 0.2037

Earth 69310-02-06 01:27 G 27036053.48 27036053.56 27036053.65 0.2638 0.2095 *

Mars 69312-09-22 13:55 G 27037012.95 27037013.08 27037013.21 0.1873 0.0171

Mars 69313-08-07 13:41 G 27037331.93 27037332.07 27037332.21 0.1651 0.0257

Earth 69314-08-01 08:39 G 27037690.74 27037690.86 27037690.98 0.2696 0.0397

Moon 69314-08-01 09:36 G 27037690.78 27037690.90 27037691.02 0.2698 0.0267 *

Jupiter 69314-09-03 03:51 G 27037723.51 27037723.66 27037723.82 0.0484 0.0105

Saturn 69314-10-25 08:10 G 27037775.71 27037775.84 27037775.97 0.0277 0.0144

Saturn 69315-01-21 22:48 G 27037864.30 27037864.45 27037864.60 0.0277 0.0002

Saturn 69315-04-20 12:58 G 27037952.91 27037953.04 27037953.17 0.0276 0.0137

Saturn 69315-07-18 02:53 G 27038041.60 27038041.62 27038041.65 0.0276 0.0273

Earth 69317-01-29 06:43 G 27038602.72 27038602.78 27038602.84 0.2635 0.2340

Moon 69317-01-29 07:55 G 27038602.75 27038602.83 27038602.90 0.2632 0.2177 *

Jupiter 69320-08-08 04:34 G 27039889.55 27039889.69 27039889.83 0.0545 0.0003

Mars 69322-02-12 19:12 G 27040443.21 27040443.30 27040443.39 0.1868 0.1280

Mars 69322-12-28 19:55 G 27040762.23 27040762.33 27040762.44 0.1655 0.1100

Jupiter 69326-06-22 05:31 G 27042033.57 27042033.73 27042033.88 0.0483 0.0065

Earth 69327-08-04 05:03 G 27042441.59 27042441.71 27042441.82 0.2695 0.0912

Moon 69327-08-04 05:46 G 27042441.62 27042441.74 27042441.85 0.2691 0.0921 *

Venus 69327-10-29 21:07 G 27042528.32 27042528.38 27042528.44 0.3693 0.3158

Saturn 69329-08-05 20:10 G 27043174.23 27043174.34 27043174.45 0.0282 0.0192

Saturn 69329-11-02 12:29 G 27043262.86 27043263.02 27043263.17 0.0283 0.0037

Saturn 69330-01-30 05:03 G 27043351.57 27043351.71 27043351.86 0.0283 0.0122

Earth 69330-02-01 06:29 G 27043353.64 27043353.77 27043353.90 0.2636 0.0818

Moon 69330-02-01 06:58 G 27043353.65 27043353.79 27043353.92 0.2630 0.0861 *

Jupiter 69332-05-27 06:00 G 27044199.62 27044199.75 27044199.89 0.0545 0.0215

Venus 69333-05-14 15:36 G 27044552.03 27044552.15 27044552.26 0.3691 0.0233

Mars 69334-04-26 00:58 G 27044898.48 27044898.54 27044898.59 0.1644 0.1492

Uranus 69337-12-10 08:39 G 27046222.82 27046222.86 27046222.92 0.0136 0.0127

Uranus 69338-03-08 12:58 G 27046310.96 27046311.04 27046311.14 0.0136 0.0106

Jupiter 69338-04-10 07:27 G 27046343.67 27046343.81 27046343.95 0.0483 0.0225

Uranus 69338-06-04 17:17 G 27046399.11 27046399.22 27046399.34 0.0136 0.0085

Jupiter 69338-07-08 23:03 G 27046433.41 27046433.46 27046433.53 0.0483 0.0448

Uranus 69338-08-31 21:22 G 27046487.26 27046487.39 27046487.52 0.0136 0.0064

Uranus 69338-11-28 01:27 G 27046575.42 27046575.56 27046575.70 0.0136 0.0044

Venus 69338-11-28 09:36 G 27046575.87 27046575.90 27046575.94 0.3690 0.3437

Uranus 69339-02-24 05:31 G 27046663.59 27046663.73 27046663.88 0.0136 0.0024

Uranus 69339-05-23 09:36 G 27046751.76 27046751.90 27046752.05 0.0136 0.0004

Uranus 69339-08-19 13:41 G 27046839.92 27046840.07 27046840.22 0.0136 0.0017

Uranus 69339-11-15 17:31 G 27046928.10 27046928.23 27046928.38 0.0136 0.0038

Uranus 69340-02-11 21:36 G 27047016.27 27047016.40 27047016.53 0.0136 0.0058

Uranus 69340-05-10 01:27 G 27047104.45 27047104.56 27047104.68 0.0136 0.0078

Earth 69340-08-06 01:12 G 27047192.48 27047192.55 27047192.61 0.2694 0.2177

Moon 69340-08-06 01:27 G 27047192.50 27047192.56 27047192.62 0.2687 0.2267 *

Uranus 69340-08-06 05:31 G 27047192.63 27047192.73 27047192.83 0.0136 0.0098

Uranus 69340-11-02 09:22 G 27047280.82 27047280.89 27047280.96 0.0136 0.0118

Mars 69342-11-01 08:53 G 27048009.77 27048009.87 27048009.98 0.1878 0.1140

Moon 69343-02-04 06:29 G 27048104.63 27048104.77 27048104.90 0.2631 0.0815

Earth 69343-02-04 06:43 G 27048104.65 27048104.78 27048104.92 0.2637 0.0771 *

Mars 69343-09-16 07:27 G 27048328.69 27048328.81 27048328.94 0.1647 0.0693

Saturn 69344-03-13 08:39 G 27048507.76 27048507.86 27048507.97 0.0276 0.0193

Jupiter 69344-03-15 07:55 G 27048509.74 27048509.83 27048509.92 0.0545 0.0421

Saturn 69344-06-09 23:17 G 27048596.33 27048596.47 27048596.63 0.0276 0.0051

Jupiter 69344-06-13 00:29 G 27048599.44 27048599.52 27048599.60 0.0545 0.0438

Saturn 69344-09-06 13:41 G 27048684.93 27048685.07 27048685.21 0.0276 0.0090

Saturn 69344-12-04 03:36 G 27048773.57 27048773.65 27048773.74 0.0276 0.0226

Venus 69345-12-24 21:51 G 27049159.28 27049159.41 27049159.54 0.3679 0.0325

Earth 69347-07-30 17:17 G 27049742.12 27049742.22 27049742.32 0.2697 0.1486

Moon 69347-07-30 18:00 G 27049742.15 27049742.25 27049742.35 0.2701 0.1447 *

Jupiter 69350-01-27 09:07 G 27050653.79 27050653.88 27050653.97 0.0484 0.0389

Jupiter 69350-04-27 00:29 G 27050743.39 27050743.52 27050743.65 0.0483 0.0275

Mars 69352-03-23 13:55 G 27051439.95 27051440.08 27051440.21 0.1873 0.0030

Mars 69353-02-05 14:10 G 27051758.94 27051759.09 27051759.23 0.1651 0.0134

Moon 69356-02-07 06:15 G 27052855.69 27052855.76 27052855.83 0.2636 0.2216

Earth 69356-02-07 07:27 G 27052855.75 27052855.81 27052855.86 0.2639 0.2413 *

Jupiter 69356-04-01 02:24 G 27052909.47 27052909.60 27052909.73 0.0545 0.0236

Saturn 69358-12-23 19:12 G 27053906.24 27053906.30 27053906.38 0.0282 0.0250

Saturn 69359-03-22 11:31 G 27053994.84 27053994.98 27053995.13 0.0283 0.0096

Saturn 69359-06-19 04:05 G 27054083.52 27054083.67 27054083.83 0.0283 0.0061

Saturn 69359-09-15 21:07 G 27054172.28 27054172.38 27054172.48 0.0283 0.0222

Earth 69360-08-01 13:55 G 27054492.96 27054493.08 27054493.20 0.2696 0.0158

Moon 69360-08-01 14:39 G 27054492.99 27054493.11 27054493.23 0.2697 0.0105 *

Mars 69361-08-13 19:27 G 27054870.21 27054870.31 27054870.41 0.1868 0.1152

Jupiter 69362-02-13 02:24 G 27055053.44 27055053.60 27055053.75 0.0483 0.0112

Mars 69362-06-28 20:10 G 27055189.23 27055189.34 27055189.46 0.1655 0.0977

Earth 69363-01-30 12:15 G 27055404.93 27055405.01 27055405.10 0.2635 0.2058

Moon 69363-01-30 13:27 G 27055404.97 27055405.06 27055405.14 0.2632 0.1995 *

Jupiter 69368-01-19 03:07 G 27057219.49 27057219.63 27057219.78 0.0545 0.0020

Saturn 69373-07-31 10:48 G 27059239.87 27059239.95 27059240.04 0.0277 0.0226

Earth 69373-08-04 10:05 G 27059243.82 27059243.92 27059244.03 0.2695 0.1157

Moon 69373-08-04 10:48 G 27059243.85 27059243.95 27059244.06 0.2690 0.1277 *

Mars 69373-10-25 00:58 G 27059325.52 27059325.54 27059325.57 0.1644 0.1606

Saturn 69373-10-28 01:41 G 27059328.42 27059328.57 27059328.71 0.0277 0.0081

Jupiter 69373-12-02 03:51 G 27059363.51 27059363.66 27059363.82 0.0484 0.0057

Saturn 69374-01-24 16:05 G 27059417.02 27059417.17 27059417.32 0.0277 0.0060

Saturn 69374-04-23 06:15 G 27059505.66 27059505.76 27059505.86 0.0277 0.0197

Earth 69376-02-02 12:15 G 27060155.88 27060156.01 27060156.14 0.2636 0.0523

Moon 69376-02-02 12:29 G 27060155.88 27060156.02 27060156.15 0.2630 0.0454 *

Uranus 69378-09-26 00:15 G 27061122.49 27061122.51 27061122.55 0.0142 0.0139

Uranus 69378-12-23 06:15 G 27061210.67 27061210.76 27061210.86 0.0142 0.0113

Uranus 69379-03-21 12:15 G 27061298.88 27061299.01 27061299.14 0.0142 0.0088

Uranus 69379-06-17 18:00 G 27061387.10 27061387.25 27061387.40 0.0142 0.0062

Uranus 69379-09-14 00:00 G 27061475.34 27061475.50 27061475.66 0.0142 0.0036

Jupiter 69379-11-07 04:19 G 27061529.55 27061529.68 27061529.81 0.0544 0.0214

Uranus 69379-12-11 05:46 G 27061563.58 27061563.74 27061563.91 0.0142 0.0010

Uranus 69380-03-08 12:00 G 27061651.83 27061652.00 27061652.16 0.0142 0.0017

Uranus 69380-06-04 18:00 G 27061740.09 27061740.25 27061740.41 0.0142 0.0044

Earth 69380-07-28 01:41 G 27061793.54 27061793.57 27061793.60 0.2697 0.2605

Moon 69380-07-28 01:41 G 27061793.56 27061793.57 27061793.59 0.2704 0.2671 *

Uranus 69380-09-01 00:00 G 27061828.36 27061828.50 27061828.65 0.0142 0.0071

Uranus 69380-11-28 06:00 G 27061916.64 27061916.75 27061916.88 0.0142 0.0098

Uranus 69381-02-24 12:15 G 27062004.94 27062005.01 27062005.10 0.0142 0.0125

Mars 69382-05-02 08:53 G 27062436.78 27062436.87 27062436.97 0.1878 0.1261

Mars 69383-03-17 07:55 G 27062755.71 27062755.83 27062755.95 0.1647 0.0819

Venus 69384-06-04 19:12 G 27063201.20 27063201.30 27063201.40 0.3692 0.1906

Neptune 69384-07-07 09:22 G 27063233.88 27063233.89 27063233.95 0.0088 0.0086

Neptune 69384-10-03 12:00 G 27063321.93 27063322.00 27063322.09 0.0088 0.0077

Neptune 69384-12-30 14:24 G 27063410.01 27063410.10 27063410.22 0.0088 0.0068

Neptune 69385-03-28 17:03 G 27063498.09 27063498.21 27063498.33 0.0088 0.0059

Neptune 69385-06-24 19:27 G 27063586.18 27063586.31 27063586.45 0.0088 0.0050

Jupiter 69385-09-20 05:31 G 27063673.59 27063673.73 27063673.87 0.0484 0.0221

Neptune 69385-09-20 21:36 G 27063674.27 27063674.40 27063674.56 0.0088 0.0042

Neptune 69385-12-18 00:15 G 27063762.36 27063762.51 27063762.67 0.0088 0.0033

Jupiter 69385-12-18 21:22 G 27063763.34 27063763.39 27063763.45 0.0483 0.0452

Neptune 69386-03-16 02:39 G 27063850.46 27063850.61 27063850.78 0.0088 0.0024

Neptune 69386-06-12 05:03 G 27063938.55 27063938.71 27063938.89 0.0088 0.0015

Moon 69386-08-07 06:15 G 27063994.71 27063994.76 27063994.82 0.2687 0.2350

Earth 69386-08-07 06:15 G 27063994.71 27063994.76 27063994.81 0.2694 0.2414 *

Neptune 69386-09-08 07:41 G 27064026.65 27064026.82 27064026.99 0.0088 0.0006

Neptune 69386-12-05 10:19 G 27064114.76 27064114.93 27064115.10 0.0088 0.0004

Neptune 69387-03-03 12:43 G 27064202.86 27064203.03 27064203.20 0.0088 0.0013

Neptune 69387-05-30 15:07 G 27064290.97 27064291.13 27064291.30 0.0088 0.0022

Neptune 69387-08-26 17:46 G 27064379.08 27064379.24 27064379.40 0.0088 0.0031

Neptune 69387-11-22 20:24 G 27064467.20 27064467.35 27064467.50 0.0088 0.0040

Neptune 69388-02-18 22:34 G 27064555.31 27064555.44 27064555.59 0.0088 0.0050

Saturn 69388-05-11 22:05 G 27064638.39 27064638.42 27064638.46 0.0282 0.0275

Neptune 69388-05-17 01:12 G 27064643.43 27064643.55 27064643.69 0.0088 0.0059

Saturn 69388-08-08 14:10 G 27064726.95 27064727.09 27064727.23 0.0282 0.0123

Neptune 69388-08-13 03:51 G 27064731.56 27064731.66 27064731.77 0.0088 0.0068

Saturn 69388-11-05 06:43 G 27064815.62 27064815.78 27064815.94 0.0282 0.0033

Neptune 69388-11-09 06:15 G 27064819.70 27064819.76 27064819.85 0.0088 0.0078

Saturn 69389-02-01 23:31 G 27064904.36 27064904.48 27064904.60 0.0283 0.0193

Moon 69389-02-04 12:00 G 27064906.87 27064907.00 27064907.13 0.2632 0.0930

Earth 69389-02-04 12:29 G 27064906.89 27064907.02 27064907.15 0.2638 0.1069 *

Neptune 69389-02-05 08:53 G 27064907.86 27064907.87 27064907.91 0.0088 0.0087

Venus 69389-12-19 13:41 G 27065224.96 27065225.07 27065225.17 0.3691 0.1420

Jupiter 69391-08-26 05:31 G 27065839.65 27065839.73 27065839.82 0.0545 0.0433

Mars 69391-09-22 13:55 G 27065866.95 27065867.08 27065867.21 0.1873 0.0091

Jupiter 69391-11-23 22:05 G 27065929.34 27065929.42 27065929.51 0.0545 0.0427

Mars 69392-08-06 14:24 G 27066185.96 27066186.10 27066186.24 0.1651 0.0005

Earth 69393-07-30 22:34 G 27066544.33 27066544.44 27066544.54 0.2696 0.1234

Moon 69393-07-30 23:17 G 27066544.36 27066544.47 27066544.58 0.2701 0.1106 *

Venus 69397-01-14 22:34 G 27067808.38 27067808.44 27067808.50 0.3678 0.3211

Jupiter 69397-07-09 07:27 G 27067983.72 27067983.81 27067983.91 0.0484 0.0381

Jupiter 69397-10-06 22:48 G 27068073.33 27068073.45 27068073.59 0.0483 0.0285

Mars 69401-02-12 19:27 G 27069297.21 27069297.31 27069297.42 0.1868 0.1014

Mars 69401-12-28 20:39 G 27069616.23 27069616.36 27069616.48 0.1655 0.0845

Venus 69402-08-01 21:07 G 27069832.26 27069832.38 27069832.50 0.3680 0.1347

Saturn 69402-12-19 11:46 G 27069971.96 27069971.99 27069972.02 0.0276 0.0270

Saturn 69403-03-18 02:39 G 27070060.47 27070060.61 27070060.74 0.0276 0.0126

Saturn 69403-06-14 17:03 G 27070149.06 27070149.21 27070149.36 0.0276 0.0017

Saturn 69403-09-11 07:12 G 27070237.68 27070237.80 27070237.93 0.0276 0.0154

Jupiter 69403-09-13 00:15 G 27070239.38 27070239.51 27070239.64 0.0545 0.0229

Earth 69406-08-03 18:58 G 27071295.17 27071295.29 27071295.41 0.2696 0.0117

Moon 69406-08-03 19:55 G 27071295.21 27071295.33 27071295.45 0.2695 0.0191 *

Earth 69409-01-31 18:00 G 27072207.15 27072207.25 27072207.35 0.2636 0.1773

Moon 69409-01-31 18:43 G 27072207.18 27072207.28 27072207.39 0.2631 0.1682 *

Jupiter 69409-07-27 00:15 G 27072383.36 27072383.51 27072383.67 0.0483 0.0115

Jupiter 69415-07-02 02:10 G 27074549.45 27074549.59 27074549.73 0.0545 0.0023

Saturn 69417-12-27 13:27 G 27075458.95 27075459.06 27075459.19 0.0282 0.0181

Saturn 69418-03-26 06:00 G 27075547.59 27075547.75 27075547.90 0.0282 0.0026

Saturn 69418-06-22 22:34 G 27075636.30 27075636.44 27075636.58 0.0283 0.0133

Earth 69419-08-06 15:22 G 27076046.04 27076046.14 27076046.24 0.2695 0.1400

Moon 69419-08-06 16:05 G 27076046.06 27076046.17 27076046.27 0.2690 0.1426 *

Jupiter 69421-05-15 02:10 G 27076693.43 27076693.59 27076693.75 0.0484 0.0051

Mars 69421-11-01 09:07 G 27076863.79 27076863.88 27076863.96 0.1878 0.1389

Uranus 69421-12-31 15:22 G 27076924.09 27076924.14 27076924.21 0.0136 0.0123

Moon 69422-02-03 18:00 G 27076958.11 27076958.25 27076958.39 0.2630 0.0271

Earth 69422-02-03 18:00 G 27076958.11 27076958.25 27076958.38 0.2637 0.0248 *

Uranus 69422-03-29 19:41 G 27077012.23 27077012.32 27077012.42 0.0136 0.0102

Uranus 69422-06-25 23:46 G 27077100.38 27077100.49 27077100.62 0.0136 0.0081

Mars 69422-09-16 08:10 G 27077182.72 27077182.84 27077182.96 0.1647 0.0940

Uranus 69422-09-22 04:05 G 27077188.54 27077188.67 27077188.80 0.0136 0.0060

Uranus 69422-12-19 08:10 G 27077276.70 27077276.84 27077276.98 0.0136 0.0040

Uranus 69423-03-17 12:15 G 27077364.87 27077365.01 27077365.16 0.0136 0.0019

Uranus 69423-06-13 16:19 G 27077453.03 27077453.18 27077453.33 0.0136 0.0002

Uranus 69423-09-09 20:24 G 27077541.20 27077541.35 27077541.49 0.0136 0.0022

Uranus 69423-12-07 00:15 G 27077629.38 27077629.51 27077629.66 0.0136 0.0042

Uranus 69424-03-04 04:19 G 27077717.55 27077717.68 27077717.81 0.0136 0.0062

Uranus 69424-05-31 08:10 G 27077805.73 27077805.84 27077805.96 0.0136 0.0082

Uranus 69424-08-27 12:00 G 27077893.92 27077894.00 27077894.11 0.0136 0.0102

Uranus 69424-11-23 16:05 G 27077982.11 27077982.17 27077982.24 0.0136 0.0122

Earth 69426-07-30 06:58 G 27078595.73 27078595.79 27078595.85 0.2697 0.2346

Moon 69426-07-30 07:12 G 27078595.73 27078595.80 27078595.87 0.2703 0.2248 *

Jupiter 69427-04-20 02:53 G 27078859.49 27078859.62 27078859.76 0.0544 0.0205

Mars 69431-03-24 14:10 G 27080293.96 27080294.09 27080294.22 0.1873 0.0228

Mars 69432-02-06 14:39 G 27080612.97 27080613.11 27080613.25 0.1651 0.0124

Saturn 69432-08-04 04:34 G 27080792.57 27080792.69 27080792.81 0.0277 0.0160

Earth 69432-08-08 11:17 G 27080796.96 27080796.97 27080796.99 0.2694 0.2652

Moon 69432-08-08 11:17 G 27080796.97 27080796.97 27080796.97 0.2687 0.2684 *

Saturn 69432-10-31 19:12 G 27080881.15 27080881.30 27080881.45 0.0277 0.0017

Saturn 69433-01-28 09:36 G 27080969.76 27080969.90 27080970.03 0.0277 0.0123

Jupiter 69433-03-03 03:51 G 27081003.52 27081003.66 27081003.80 0.0484 0.0216

Saturn 69433-04-26 23:31 G 27081058.43 27081058.48 27081058.53 0.0277 0.0259

Jupiter 69433-05-31 19:41 G 27081093.28 27081093.32 27081093.37 0.0484 0.0459

Moon 69435-02-06 17:31 G 27081709.11 27081709.23 27081709.34 0.2633 0.1362

Earth 69435-02-06 18:15 G 27081709.14 27081709.26 27081709.38 0.2638 0.1374 *

Pluto 69435-03-31 10:19 G 27081761.86 27081761.93 27081762.01 0.0065 0.0056

Pluto 69435-06-27 11:03 G 27081849.86 27081849.96 27081850.07 0.0065 0.0045

Pluto 69435-09-23 11:31 G 27081937.87 27081937.98 27081938.12 0.0065 0.0035

Pluto 69435-12-20 12:29 G 27082025.89 27082026.02 27082026.17 0.0065 0.0024

Pluto 69436-03-17 13:12 G 27082113.91 27082114.05 27082114.21 0.0065 0.0013

Pluto 69436-06-13 14:10 G 27082201.94 27082202.09 27082202.24 0.0065 0.0002

Pluto 69436-09-09 14:39 G 27082289.97 27082290.11 27082290.27 0.0065 0.0009

Pluto 69436-12-06 15:36 G 27082378.00 27082378.15 27082378.29 0.0065 0.0019

Pluto 69437-03-04 16:05 G 27082466.05 27082466.17 27082466.31 0.0065 0.0031

Pluto 69437-05-31 16:48 G 27082554.09 27082554.20 27082554.33 0.0065 0.0041

Pluto 69437-08-27 17:17 G 27082642.15 27082642.22 27082642.33 0.0065 0.0053

Pluto 69437-11-23 18:00 G 27082730.24 27082730.25 27082730.31 0.0066 0.0064

Jupiter 69439-02-06 03:51 G 27083169.57 27083169.66 27083169.75 0.0544 0.0429

Jupiter 69439-05-06 20:24 G 27083259.26 27083259.35 27083259.43 0.0545 0.0427

Earth 69439-08-02 03:36 G 27083346.54 27083346.65 27083346.77 0.2696 0.0978

Moon 69439-08-02 04:19 G 27083346.57 27083346.68 27083346.80 0.2701 0.0961 *

Mars 69440-08-13 19:27 G 27083724.20 27083724.31 27083724.42 0.1868 0.0905

Venus 69441-01-10 17:31 G 27083874.11 27083874.23 27083874.34 0.3692 0.0660

Mars 69441-06-28 21:07 G 27084043.25 27084043.38 27084043.51 0.1655 0.0710

Jupiter 69444-12-20 05:46 G 27085313.64 27085313.74 27085313.83 0.0484 0.0379

Jupiter 69445-03-19 21:07 G 27085403.25 27085403.38 27085403.51 0.0483 0.0286

Venus 69446-07-27 11:46 G 27085897.91 27085897.99 27085898.07 0.3691 0.2632

Saturn 69447-05-16 16:34 G 27086191.09 27086191.19 27086191.30 0.0282 0.0204

Saturn 69447-08-13 08:53 G 27086279.72 27086279.87 27086280.03 0.0282 0.0050

Saturn 69447-11-10 01:27 G 27086368.42 27086368.56 27086368.71 0.0282 0.0108

Saturn 69448-02-06 18:15 G 27086457.22 27086457.26 27086457.32 0.0283 0.0270

Mars 69450-11-19 02:53 G 27087473.58 27087473.62 27087473.66 0.1659 0.1583

Jupiter 69451-02-22 21:51 G 27087569.28 27087569.41 27087569.54 0.0545 0.0216

Earth 69452-08-04 00:15 G 27088097.39 27088097.51 27088097.63 0.2695 0.0353

Moon 69452-08-04 00:58 G 27088097.43 27088097.54 27088097.66 0.2693 0.0487 *

Venus 69453-08-22 21:36 G 27088481.29 27088481.40 27088481.52 0.3679 0.1605

Earth 69455-02-01 23:31 G 27089009.37 27089009.48 27089009.60 0.2636 0.1487

Moon 69455-02-02 00:15 G 27089009.39 27089009.51 27089009.63 0.2630 0.1391 *

Jupiter 69457-01-05 22:48 G 27089713.29 27089713.45 27089713.60 0.0483 0.0120

Venus 69459-03-08 20:24 G 27090505.28 27090505.35 27090505.42 0.3680 0.3025

Mars 69461-05-02 09:22 G 27091290.82 27091290.89 27091290.96 0.1878 0.1534

Saturn 69461-12-22 06:00 G 27091524.64 27091524.75 27091524.85 0.0276 0.0201

Mars 69462-03-17 08:24 G 27091609.74 27091609.85 27091609.96 0.1647 0.1060

Saturn 69462-03-20 20:39 G 27091613.21 27091613.36 27091613.51 0.0276 0.0057

Saturn 69462-06-17 11:03 G 27091701.82 27091701.96 27091702.11 0.0276 0.0083

Saturn 69462-09-14 01:12 G 27091790.46 27091790.55 27091790.64 0.0276 0.0219

Uranus 69462-10-17 07:12 G 27091823.76 27091823.80 27091823.87 0.0142 0.0133

Jupiter 69462-12-11 23:46 G 27091879.35 27091879.49 27091879.64 0.0545 0.0021

Uranus 69463-01-13 13:12 G 27091911.95 27091912.05 27091912.16 0.0142 0.0107

Uranus 69463-04-11 18:58 G 27092000.16 27092000.29 27092000.43 0.0142 0.0081

Uranus 69463-07-09 00:58 G 27092088.39 27092088.54 27092088.70 0.0142 0.0055

Uranus 69463-10-05 06:58 G 27092176.63 27092176.79 27092176.95 0.0142 0.0029

Uranus 69464-01-01 12:58 G 27092264.87 27092265.04 27092265.21 0.0142 0.0003

Uranus 69464-03-29 18:58 G 27092353.12 27092353.29 27092353.45 0.0142 0.0024

Uranus 69464-06-26 00:58 G 27092441.38 27092441.54 27092441.70 0.0142 0.0051

Uranus 69464-09-22 06:58 G 27092529.65 27092529.79 27092529.94 0.0142 0.0078

Uranus 69464-12-19 12:58 G 27092617.94 27092618.04 27092618.16 0.0142 0.0105

Uranus 69465-03-17 19:12 G 27092706.25 27092706.30 27092706.37 0.0142 0.0132

Earth 69465-08-06 20:24 G 27092848.26 27092848.35 27092848.45 0.2694 0.1640

Moon 69465-08-06 20:53 G 27092848.28 27092848.37 27092848.47 0.2689 0.1711 *

Neptune 69466-01-28 02:24 G 27093022.55 27093022.60 27093022.66 0.0089 0.0082

Neptune 69466-04-26 04:34 G 27093110.60 27093110.69 27093110.77 0.0089 0.0073

Neptune 69466-07-23 06:00 G 27093198.66 27093198.75 27093198.87 0.0089 0.0065

Neptune 69466-10-19 08:10 G 27093286.73 27093286.84 27093286.96 0.0089 0.0056

Neptune 69467-01-15 09:51 G 27093374.80 27093374.91 27093375.05 0.0089 0.0048

Neptune 69467-04-13 12:00 G 27093462.87 27093463.00 27093463.14 0.0089 0.0039

Neptune 69467-07-10 13:41 G 27093550.94 27093551.07 27093551.22 0.0089 0.0031

Neptune 69467-10-06 15:51 G 27093639.02 27093639.16 27093639.30 0.0089 0.0022

Neptune 69468-01-02 17:46 G 27093727.09 27093727.24 27093727.39 0.0089 0.0013

Moon 69468-02-04 23:31 G 27093760.34 27093760.48 27093760.62 0.2630 0.0119

Earth 69468-02-04 23:31 G 27093760.35 27093760.48 27093760.62 0.2637 0.0104 *

Neptune 69468-03-30 19:27 G 27093815.17 27093815.31 27093815.46 0.0089 0.0006

Neptune 69468-06-26 21:22 G 27093903.24 27093903.39 27093903.54 0.0089 0.0004

Neptune 69468-09-22 23:17 G 27093991.32 27093991.47 27093991.62 0.0089 0.0012

Jupiter 69468-10-25 00:15 G 27094023.35 27094023.51 27094023.67 0.0483 0.0049

Neptune 69468-12-20 00:58 G 27094079.40 27094079.54 27094079.69 0.0089 0.0020

Neptune 69469-03-18 02:53 G 27094167.48 27094167.62 27094167.76 0.0089 0.0029

Neptune 69469-06-14 04:48 G 27094255.56 27094255.70 27094255.83 0.0089 0.0037

Neptune 69469-09-10 06:15 G 27094343.65 27094343.76 27094343.90 0.0089 0.0046

Neptune 69469-12-07 08:10 G 27094431.73 27094431.84 27094431.96 0.0089 0.0053

Neptune 69470-03-05 09:51 G 27094519.82 27094519.91 27094520.03 0.0089 0.0062

Neptune 69470-06-01 11:46 G 27094607.90 27094607.99 27094608.08 0.0089 0.0070

Neptune 69470-08-28 13:27 G 27094696.00 27094696.06 27094696.14 0.0089 0.0078

Mars 69470-09-22 14:10 G 27094720.96 27094721.09 27094721.22 0.1873 0.0352

Neptune 69470-11-24 15:07 G 27094784.10 27094784.13 27094784.18 0.0089 0.0086

Mars 69471-08-07 14:53 G 27095039.98 27095040.12 27095040.27 0.1651 0.0258

Earth 69472-07-30 12:15 G 27095397.93 27095398.01 27095398.08 0.2697 0.2083

Moon 69472-07-30 12:43 G 27095397.95 27095398.03 27095398.10 0.2703 0.2115 *

Jupiter 69474-09-30 01:41 G 27096189.43 27096189.57 27096189.70 0.0545 0.0194

Saturn 69476-10-02 16:05 G 27096923.12 27096923.17 27096923.23 0.0282 0.0259

Saturn 69476-12-30 08:10 G 27097011.70 27097011.84 27097011.99 0.0282 0.0107

Saturn 69477-03-29 00:43 G 27097100.37 27097100.53 27097100.68 0.0282 0.0049

Saturn 69477-06-25 17:17 G 27097189.12 27097189.22 27097189.33 0.0283 0.0210

Mars 69480-02-12 19:41 G 27098151.20 27098151.32 27098151.44 0.1868 0.0767

Jupiter 69480-08-13 02:10 G 27098333.45 27098333.59 27098333.73 0.0484 0.0211

Jupiter 69480-11-10 18:00 G 27098423.21 27098423.25 27098423.29 0.0483 0.0462

Mars 69480-12-27 21:22 G 27098470.25 27098470.39 27098470.52 0.1655 0.0587

Moon 69481-02-06 23:03 G 27098511.34 27098511.46 27098511.57 0.2634 0.1517

Earth 69481-02-07 00:00 G 27098511.39 27098511.50 27098511.60 0.2638 0.1678 *

Earth 69485-08-02 08:53 G 27100148.75 27100148.87 27100148.99 0.2696 0.0723

Moon 69485-08-02 09:36 G 27100148.79 27100148.90 27100149.02 0.2699 0.0573 *

Jupiter 69486-07-19 02:24 G 27100499.51 27100499.60 27100499.69 0.0544 0.0421

Jupiter 69486-10-16 18:58 G 27100589.21 27100589.29 27100589.37 0.0544 0.0435

Moon 69488-01-31 06:43 G 27101060.74 27101060.78 27101060.82 0.2633 0.2517

Mars 69489-07-05 01:12 G 27101581.54 27101581.55 27101581.57 0.1863 0.1848

Mars 69490-05-20 03:07 G 27101900.57 27101900.63 27101900.70 0.1659 0.1453

Saturn 69491-05-11 07:27 G 27102256.74 27102256.81 27102256.89 0.0277 0.0238

Saturn 69491-08-07 22:34 G 27102345.29 27102345.44 27102345.58 0.0277 0.0093

Saturn 69491-11-04 12:58 G 27102433.89 27102434.04 27102434.19 0.0277 0.0049

Saturn 69492-02-01 03:07 G 27102522.53 27102522.63 27102522.74 0.0277 0.0187

Venus 69492-02-01 21:07 G 27102523.31 27102523.38 27102523.45 0.3693 0.2780

Jupiter 69492-06-01 03:51 G 27102643.57 27102643.66 27102643.76 0.0484 0.0376

Jupiter 69492-08-29 19:12 G 27102733.18 27102733.30 27102733.43 0.0484 0.0290

Venus 69497-08-17 15:36 G 27104547.04 27104547.15 27104547.26 0.3692 0.0595

Jupiter 69498-08-04 20:10 G 27104899.21 27104899.34 27104899.47 0.0544 0.0220

Earth 69498-08-05 05:17 G 27104899.61 27104899.72 27104899.84 0.2695 0.0601

Moon 69498-08-05 06:15 G 27104899.64 27104899.76 27104899.88 0.2693 0.0639 *

Mars 69500-11-01 09:07 G 27105717.82 27105717.88 27105717.94 0.1877 0.1643

Earth 69501-02-03 05:17 G 27105811.60 27105811.72 27105811.84 0.2636 0.1202

Moon 69501-02-03 05:46 G 27105811.62 27105811.74 27105811.86 0.2630 0.1199 *

Mars 69501-09-16 08:39 G 27106036.77 27106036.86 27106036.96 0.1647 0.1187

Jupiter 69504-06-18 20:39 G 27107043.21 27107043.36 27107043.52 0.0484 0.0120

Uranus 69506-01-21 22:34 G 27107625.36 27107625.44 27107625.51 0.0136 0.0117

Saturn 69506-02-20 19:27 G 27107655.30 27107655.31 27107655.33 0.0282 0.0280

Uranus 69506-04-20 02:24 G 27107713.51 27107713.60 27107713.72 0.0136 0.0097

Saturn 69506-05-20 11:31 G 27107743.84 27107743.98 27107744.12 0.0282 0.0129

Uranus 69506-07-17 06:43 G 27107801.66 27107801.78 27107801.91 0.0136 0.0076

Saturn 69506-08-17 03:51 G 27107832.50 27107832.66 27107832.82 0.0282 0.0027

Uranus 69506-10-13 11:03 G 27107889.82 27107889.96 27107890.09 0.0136 0.0055

Saturn 69506-11-13 20:39 G 27107921.24 27107921.36 27107921.48 0.0282 0.0186

Uranus 69507-01-09 15:07 G 27107977.99 27107978.13 27107978.27 0.0136 0.0034

Uranus 69507-04-07 19:12 G 27108066.15 27108066.30 27108066.45 0.0136 0.0014

Uranus 69507-07-04 23:17 G 27108154.32 27108154.47 27108154.62 0.0136 0.0007

Uranus 69507-10-01 03:07 G 27108242.49 27108242.63 27108242.78 0.0136 0.0027

Uranus 69507-12-28 07:12 G 27108330.67 27108330.80 27108330.94 0.0136 0.0047

Uranus 69508-03-25 11:17 G 27108418.84 27108418.97 27108419.10 0.0136 0.0067

Uranus 69508-06-21 15:07 G 27108507.02 27108507.13 27108507.25 0.0136 0.0087

Uranus 69508-09-17 18:58 G 27108595.21 27108595.29 27108595.39 0.0136 0.0107

Uranus 69508-12-14 23:03 G 27108683.41 27108683.46 27108683.51 0.0136 0.0127

Mars 69510-03-24 14:24 G 27109147.97 27109148.10 27109148.22 0.1873 0.0484

Venus 69510-03-30 20:53 G 27109154.24 27109154.37 27109154.50 0.3679 0.0065

Jupiter 69510-05-24 21:22 G 27109209.25 27109209.39 27109209.54 0.0545 0.0009

Mars 69511-02-06 15:22 G 27109467.00 27109467.14 27109467.28 0.1651 0.0382

Earth 69511-08-09 01:27 G 27109650.48 27109650.56 27109650.65 0.2694 0.1879

Moon 69511-08-09 01:55 G 27109650.50 27109650.58 27109650.66 0.2688 0.1918 *

Moon 69514-02-06 05:03 G 27110562.57 27110562.71 27110562.85 0.2631 0.0343

Earth 69514-02-06 05:17 G 27110562.58 27110562.72 27110562.86 0.2637 0.0365 *

Jupiter 69516-04-06 22:34 G 27111353.28 27111353.44 27111353.60 0.0483 0.0045

Earth 69518-08-01 17:17 G 27112200.14 27112200.22 27112200.31 0.2697 0.1830

Moon 69518-08-01 17:46 G 27112200.15 27112200.24 27112200.34 0.2703 0.1713 *

Mars 69519-08-14 19:41 G 27112578.20 27112578.32 27112578.44 0.1868 0.0638

Mars 69520-06-28 21:36 G 27112897.26 27112897.40 27112897.54 0.1655 0.0458

Saturn 69520-09-28 09:07 G 27112988.88 27112988.88 27112988.91 0.0276 0.0275

Saturn 69520-12-26 00:15 G 27113077.38 27113077.51 27113077.65 0.0276 0.0130

Saturn 69521-03-24 14:53 G 27113165.97 27113166.12 27113166.27 0.0276 0.0012

Saturn 69521-06-21 05:03 G 27113254.59 27113254.71 27113254.84 0.0276 0.0151

Jupiter 69522-03-12 23:03 G 27113519.33 27113519.46 27113519.60 0.0545 0.0208

Pluto 69523-09-23 19:12 G 27114079.29 27114079.30 27114079.34 0.0079 0.0079

Pluto 69523-12-20 20:53 G 27114167.28 27114167.37 27114167.50 0.0079 0.0058

Pluto 69524-03-17 22:48 G 27114255.32 27114255.45 27114255.61 0.0079 0.0036

Pluto 69524-06-14 00:43 G 27114343.38 27114343.53 27114343.70 0.0079 0.0015

Pluto 69524-09-10 02:39 G 27114431.45 27114431.61 27114431.78 0.0079 0.0006

Pluto 69524-12-07 04:34 G 27114519.53 27114519.69 27114519.84 0.0079 0.0027

Pluto 69525-03-05 06:15 G 27114607.63 27114607.76 27114607.89 0.0079 0.0048

Pluto 69525-06-01 07:55 G 27114695.76 27114695.83 27114695.92 0.0079 0.0069

Moon 69527-02-09 04:48 G 27115313.60 27115313.70 27115313.79 0.2634 0.1925

Earth 69527-02-09 05:46 G 27115313.65 27115313.74 27115313.83 0.2638 0.1986 *

Jupiter 69528-01-25 00:15 G 27115663.36 27115663.51 27115663.65 0.0484 0.0211

Jupiter 69528-04-23 15:51 G 27115753.12 27115753.16 27115753.21 0.0483 0.0461

Mars 69529-01-04 01:27 G 27116008.51 27116008.56 27116008.60 0.1863 0.1722

Mars 69529-11-19 03:36 G 27116327.56 27116327.65 27116327.74 0.1659 0.1319

Earth 69531-08-04 14:10 G 27116950.97 27116951.09 27116951.21 0.2696 0.0471

Moon 69531-08-04 14:53 G 27116951.01 27116951.12 27116951.24 0.2697 0.0463 *

Jupiter 69533-12-30 00:43 G 27117829.44 27117829.53 27117829.63 0.0545 0.0417

Earth 69534-02-01 11:17 G 27117862.92 27117862.97 27117863.02 0.2635 0.2418

Moon 69534-02-01 12:15 G 27117862.96 27117863.01 27117863.06 0.2632 0.2400 *

Jupiter 69534-03-29 17:17 G 27117919.15 27117919.22 27117919.31 0.0545 0.0443

Saturn 69535-10-07 11:03 G 27118475.85 27118475.96 27118476.08 0.0282 0.0183

Saturn 69536-01-04 03:22 G 27118564.48 27118564.64 27118564.79 0.0282 0.0030

Saturn 69536-04-01 19:55 G 27118653.19 27118653.33 27118653.47 0.0282 0.0128

Jupiter 69539-11-13 02:10 G 27119973.49 27119973.59 27119973.69 0.0484 0.0371

Jupiter 69540-02-10 17:31 G 27120063.10 27120063.23 27120063.35 0.0483 0.0294

Mars 69540-05-02 09:22 G 27120144.86 27120144.89 27120144.93 0.1878 0.1783

Mars 69541-03-17 09:07 G 27120463.79 27120463.88 27120463.96 0.1647 0.1306

Earth 69544-08-06 10:34 G 27121701.82 27121701.94 27121702.05 0.2695 0.0845

Moon 69544-08-06 11:17 G 27121701.86 27121701.97 27121702.08 0.2692 0.0992 *

Jupiter 69546-01-15 18:43 G 27122229.15 27122229.28 27122229.41 0.0544 0.0226

Uranus 69546-11-07 14:24 G 27122525.03 27122525.10 27122525.18 0.0142 0.0125

Uranus 69547-02-03 20:24 G 27122613.23 27122613.35 27122613.46 0.0142 0.0100

Earth 69547-02-04 11:03 G 27122613.83 27122613.96 27122614.08 0.2636 0.0911

Moon 69547-02-04 11:31 G 27122613.84 27122613.98 27122614.11 0.2630 0.0794 *

Uranus 69547-05-03 01:55 G 27122701.45 27122701.58 27122701.73 0.0142 0.0074

Uranus 69547-07-30 07:55 G 27122789.68 27122789.83 27122789.99 0.0142 0.0048

Uranus 69547-10-26 13:55 G 27122877.92 27122878.08 27122878.25 0.0142 0.0022

Uranus 69548-01-22 19:55 G 27122966.16 27122966.33 27122966.50 0.0142 0.0005

Uranus 69548-04-20 01:55 G 27123054.42 27123054.58 27123054.74 0.0142 0.0031

Uranus 69548-07-17 07:55 G 27123142.68 27123142.83 27123142.99 0.0142 0.0058

Venus 69548-09-08 19:27 G 27123196.20 27123196.31 27123196.41 0.3692 0.1510

Uranus 69548-10-13 13:55 G 27123230.95 27123231.08 27123231.22 0.0142 0.0085

Uranus 69549-01-09 19:55 G 27123319.24 27123319.33 27123319.45 0.0142 0.0112

Neptune 69549-04-05 09:07 G 27123404.82 27123404.88 27123404.96 0.0088 0.0079

Uranus 69549-04-08 02:10 G 27123407.57 27123407.59 27123407.63 0.0142 0.0139

Neptune 69549-07-02 11:17 G 27123492.89 27123492.97 27123493.08 0.0088 0.0071

Mars 69549-09-22 14:24 G 27123574.98 27123575.10 27123575.22 0.1873 0.0608

Neptune 69549-09-28 13:41 G 27123580.97 27123581.07 27123581.20 0.0088 0.0062

Neptune 69549-12-25 16:19 G 27123669.05 27123669.18 27123669.32 0.0088 0.0053

Neptune 69550-03-23 18:43 G 27123757.14 27123757.28 27123757.43 0.0088 0.0044

Saturn 69550-05-15 01:41 G 27123809.45 27123809.57 27123809.69 0.0277 0.0169

Neptune 69550-06-19 21:07 G 27123845.23 27123845.38 27123845.54 0.0088 0.0035

Mars 69550-08-07 15:36 G 27123894.01 27123894.15 27123894.29 0.1651 0.0500

Saturn 69550-08-11 16:19 G 27123898.03 27123898.18 27123898.33 0.0277 0.0026

Neptune 69550-09-15 23:46 G 27123933.33 27123933.49 27123933.65 0.0088 0.0026

Saturn 69550-11-08 06:43 G 27123986.65 27123986.78 27123986.92 0.0277 0.0115

Neptune 69550-12-13 02:10 G 27124021.42 27124021.59 27124021.75 0.0088 0.0017

Saturn 69551-02-04 20:53 G 27124075.31 27124075.37 27124075.43 0.0277 0.0252

Neptune 69551-03-11 04:34 G 27124109.52 27124109.69 27124109.86 0.0088 0.0008

Neptune 69551-06-07 06:58 G 27124197.62 27124197.79 27124197.96 0.0088 0.0002

Neptune 69551-09-03 09:22 G 27124285.73 27124285.89 27124286.06 0.0088 0.0010

Jupiter 69551-11-29 18:43 G 27124373.13 27124373.28 27124373.44 0.0484 0.0122

Neptune 69551-11-30 12:00 G 27124373.83 27124374.00 27124374.16 0.0088 0.0019

Neptune 69552-02-26 14:24 G 27124461.94 27124462.10 27124462.26 0.0088 0.0028

Neptune 69552-05-24 17:03 G 27124550.06 27124550.21 27124550.36 0.0088 0.0037

Neptune 69552-08-20 19:12 G 27124638.17 27124638.30 27124638.46 0.0088 0.0047

Neptune 69552-11-16 21:51 G 27124726.29 27124726.41 27124726.55 0.0088 0.0056

Neptune 69553-02-13 00:29 G 27124814.41 27124814.52 27124814.64 0.0088 0.0065

Neptune 69553-05-12 03:07 G 27124902.55 27124902.63 27124902.72 0.0088 0.0074

Neptune 69553-08-08 05:17 G 27124990.69 27124990.72 27124990.79 0.0088 0.0084

Venus 69554-03-25 13:41 G 27125219.98 27125220.07 27125220.17 0.3691 0.1828

Moon 69557-08-09 06:58 G 27126452.71 27126452.79 27126452.86 0.2687 0.2092

Earth 69557-08-09 06:43 G 27126452.71 27126452.78 27126452.85 0.2694 0.2118 *

Jupiter 69557-11-03 19:55 G 27126539.19 27126539.33 27126539.47 0.0544 0.0007

Mars 69559-02-12 19:41 G 27127005.20 27127005.32 27127005.44 0.1868 0.0524

Mars 69559-12-28 22:05 G 27127324.28 27127324.42 27127324.56 0.1655 0.0324

Moon 69560-02-07 10:34 G 27127364.80 27127364.94 27127365.07 0.2631 0.0571

Earth 69560-02-07 11:03 G 27127364.82 27127364.96 27127365.09 0.2637 0.0661 *

Venus 69561-04-20 21:36 G 27127803.32 27127803.40 27127803.48 0.3678 0.2849

Jupiter 69563-09-17 20:24 G 27128683.19 27128683.35 27128683.51 0.0484 0.0045

Earth 69564-08-01 22:34 G 27129002.34 27129002.44 27129002.54 0.2697 0.1568

Moon 69564-08-01 23:17 G 27129002.37 27129002.47 27129002.56 0.2703 0.1572 *

Saturn 69565-02-23 14:24 G 27129208.00 27129208.10 27129208.21 0.0282 0.0205

Saturn 69565-05-23 06:29 G 27129296.62 27129296.77 27129296.93 0.0282 0.0053

Saturn 69565-08-19 23:03 G 27129385.32 27129385.46 27129385.61 0.0282 0.0105

Saturn 69565-11-16 15:51 G 27129474.12 27129474.16 27129474.22 0.0282 0.0266

Venus 69566-11-04 20:10 G 27129827.22 27129827.34 27129827.45 0.3680 0.1665

Mars 69568-07-05 01:27 G 27130435.50 27130435.56 27130435.63 0.1863 0.1593

Mars 69569-05-20 03:51 G 27130754.56 27130754.66 27130754.76 0.1659 0.1190

Jupiter 69569-08-22 20:39 G 27130849.23 27130849.36 27130849.49 0.0545 0.0220

Moon 69573-02-09 10:19 G 27132115.85 27132115.93 27132116.01 0.2634 0.2156

Earth 69573-02-09 11:31 G 27132115.91 27132115.98 27132116.04 0.2638 0.2291 *

Jupiter 69575-07-06 22:19 G 27132993.29 27132993.43 27132993.58 0.0484 0.0206

Jupiter 69575-10-04 14:10 G 27133083.05 27133083.09 27133083.13 0.0483 0.0466

Earth 69577-08-04 19:12 G 27133753.18 27133753.30 27133753.42 0.2696 0.0229

Moon 69577-08-04 20:10 G 27133753.22 27133753.34 27133753.46 0.2696 0.0055 *

Saturn 69579-10-02 03:36 G 27134541.56 27134541.65 27134541.76 0.0276 0.0203

Saturn 69579-12-29 18:29 G 27134630.13 27134630.27 27134630.42 0.0276 0.0060

Earth 69580-02-02 16:48 G 27134665.13 27134665.20 27134665.28 0.2635 0.2134

Moon 69580-02-02 17:46 G 27134665.15 27134665.24 27134665.33 0.2631 0.1963 *

Saturn 69580-03-27 09:07 G 27134718.74 27134718.88 27134719.02 0.0276 0.0082

Saturn 69580-06-23 23:17 G 27134807.38 27134807.47 27134807.56 0.0276 0.0218

Mars 69580-09-15 09:22 G 27134890.82 27134890.89 27134890.96 0.1647 0.1424

Jupiter 69581-06-10 22:05 G 27135159.34 27135159.42 27135159.51 0.0545 0.0433

Jupiter 69581-09-08 14:53 G 27135249.04 27135249.12 27135249.21 0.0545 0.0430

Jupiter 69587-04-25 00:00 G 27137303.41 27137303.50 27137303.61 0.0484 0.0371

Jupiter 69587-07-23 15:22 G 27137393.01 27137393.14 27137393.27 0.0483 0.0293

Mars 69589-03-23 14:39 G 27138001.99 27138002.11 27138002.23 0.1873 0.0742

Uranus 69589-11-15 00:43 G 27138238.52 27138238.53 27138238.57 0.0136 0.0134

Mars 69590-02-05 15:51 G 27138321.03 27138321.16 27138321.30 0.1651 0.0630

Uranus 69590-02-11 05:03 G 27138326.64 27138326.71 27138326.80 0.0136 0.0113

Uranus 69590-05-10 09:22 G 27138414.79 27138414.89 27138415.01 0.0136 0.0092

Uranus 69590-08-06 13:27 G 27138502.94 27138503.06 27138503.20 0.0136 0.0071

Earth 69590-08-07 15:36 G 27138504.04 27138504.15 27138504.26 0.2695 0.1089

Moon 69590-08-07 16:19 G 27138504.07 27138504.18 27138504.29 0.2692 0.1095 *

Uranus 69590-11-02 17:46 G 27138591.10 27138591.24 27138591.38 0.0136 0.0050

Uranus 69591-01-29 21:51 G 27138679.27 27138679.41 27138679.56 0.0136 0.0029

Uranus 69591-04-28 01:55 G 27138767.44 27138767.58 27138767.73 0.0136 0.0009

Uranus 69591-07-25 06:00 G 27138855.61 27138855.75 27138855.90 0.0136 0.0012

Uranus 69591-10-21 10:05 G 27138943.78 27138943.92 27138944.06 0.0136 0.0032

Uranus 69592-01-17 13:55 G 27139031.95 27139032.08 27139032.22 0.0136 0.0053

Uranus 69592-04-14 18:00 G 27139120.13 27139120.25 27139120.38 0.0136 0.0072

Uranus 69592-07-11 21:51 G 27139208.31 27139208.41 27139208.53 0.0136 0.0093

Uranus 69592-10-08 01:55 G 27139296.50 27139296.58 27139296.66 0.0136 0.0112

Uranus 69593-01-04 05:31 G 27139384.71 27139384.73 27139384.78 0.0136 0.0133

Earth 69593-02-04 16:34 G 27139416.06 27139416.19 27139416.32 0.2636 0.0617

Moon 69593-02-04 17:03 G 27139416.07 27139416.21 27139416.34 0.2630 0.0655 *

Jupiter 69593-06-27 17:03 G 27139559.08 27139559.21 27139559.34 0.0545 0.0229

Saturn 69594-07-13 14:10 G 27139940.03 27139940.09 27139940.15 0.0282 0.0258

Saturn 69594-10-10 06:00 G 27140028.61 27140028.75 27140028.90 0.0282 0.0107

Saturn 69595-01-06 22:34 G 27140117.28 27140117.44 27140117.59 0.0282 0.0049

Saturn 69595-04-05 15:07 G 27140206.03 27140206.13 27140206.24 0.0282 0.0208

Moon 69597-07-31 07:12 G 27141053.78 27141053.80 27141053.81 0.2705 0.2675

Earth 69597-07-31 06:58 G 27141053.79 27141053.79 27141053.79 0.2698 0.2694 *

Mars 69598-08-13 19:55 G 27141432.20 27141432.33 27141432.45 0.1868 0.0397

Jupiter 69599-05-11 17:03 G 27141703.06 27141703.21 27141703.37 0.0483 0.0127

Mars 69599-06-28 22:19 G 27141751.28 27141751.43 27141751.57 0.1655 0.0206

Venus 69599-09-30 23:03 G 27141845.45 27141845.46 27141845.46 0.3693 0.3674

Earth 69603-08-10 11:46 G 27143254.94 27143254.99 27143255.05 0.2694 0.2358

Moon 69603-08-10 12:00 G 27143254.95 27143255.00 27143255.05 0.2687 0.2414 *

Venus 69605-04-15 17:31 G 27143869.12 27143869.23 27143869.34 0.3692 0.0258

Jupiter 69605-04-15 18:29 G 27143869.12 27143869.27 27143869.41 0.0544 0.0017 *

Moon 69606-02-07 16:05 G 27144167.04 27144167.17 27144167.30 0.2631 0.0954

Earth 69606-02-07 16:48 G 27144167.07 27144167.20 27144167.33 0.2637 0.0964 *

Mars 69608-01-04 01:27 G 27144862.49 27144862.56 27144862.64 0.1863 0.1474

Mars 69608-11-18 04:19 G 27145181.57 27145181.68 27145181.79 0.1659 0.1056

Saturn 69609-02-18 04:48 G 27145273.63 27145273.70 27145273.77 0.0277 0.0245

Saturn 69609-05-17 19:55 G 27145362.18 27145362.33 27145362.47 0.0277 0.0100

Saturn 69609-08-14 10:19 G 27145450.78 27145450.93 27145451.08 0.0277 0.0042

Saturn 69609-11-11 00:29 G 27145539.42 27145539.52 27145539.64 0.0277 0.0181

Earth 69610-08-03 03:51 G 27145804.55 27145804.66 27145804.77 0.2697 0.1312

Moon 69610-08-03 04:34 G 27145804.58 27145804.69 27145804.80 0.2701 0.1215 *

Venus 69610-10-30 12:00 G 27145892.93 27145893.00 27145893.06 0.3691 0.3041

Jupiter 69611-02-27 18:29 G 27146013.11 27146013.27 27146013.43 0.0484 0.0044

Jupiter 69617-02-01 19:27 G 27148179.18 27148179.31 27148179.44 0.0544 0.0209

Venus 69617-11-25 20:39 G 27148476.24 27148476.36 27148476.48 0.3678 0.1280

Moon 69619-02-10 16:05 G 27148918.13 27148918.17 27148918.22 0.2636 0.2478

Earth 69619-02-10 17:17 G 27148918.20 27148918.22 27148918.24 0.2638 0.2604 *

Mars 69620-03-16 09:36 G 27149317.86 27149317.90 27149317.95 0.1647 0.1550

Jupiter 69622-12-16 20:10 G 27150323.20 27150323.34 27150323.49 0.0484 0.0208

Jupiter 69623-03-16 12:00 G 27150412.96 27150413.00 27150413.04 0.0483 0.0465

Venus 69623-06-11 19:27 G 27150500.26 27150500.31 27150500.36 0.3680 0.3340

Earth 69623-08-06 00:29 G 27150555.40 27150555.52 27150555.64 0.2696 0.0035

Moon 69623-08-06 01:27 G 27150555.44 27150555.56 27150555.68 0.2696 0.0066 *

Saturn 69623-11-30 17:17 G 27150672.22 27150672.22 27150672.22 0.0282 0.0282

Saturn 69624-02-27 09:07 G 27150760.75 27150760.88 27150761.02 0.0282 0.0131

Saturn 69624-05-26 01:27 G 27150849.41 27150849.56 27150849.72 0.0282 0.0025

Saturn 69624-08-22 18:15 G 27150938.14 27150938.26 27150938.38 0.0282 0.0182

Earth 69626-02-02 22:34 G 27151467.34 27151467.44 27151467.53 0.2635 0.1848

Moon 69626-02-02 23:17 G 27151467.38 27151467.47 27151467.57 0.2630 0.1837 *

Mars 69628-09-21 14:39 G 27152428.99 27152429.11 27152429.22 0.1873 0.0862

Jupiter 69628-11-20 19:55 G 27152489.25 27152489.33 27152489.41 0.0545 0.0443

Jupiter 69629-02-18 12:43 G 27152578.94 27152579.03 27152579.12 0.0545 0.0419

Mars 69629-08-06 16:19 G 27152748.05 27152748.18 27152748.31 0.1651 0.0751

Neptune 69630-07-30 00:00 G 27153105.46 27153105.50 27153105.55 0.0089 0.0085

Neptune 69630-10-26 01:41 G 27153193.51 27153193.57 27153193.66 0.0089 0.0077

Uranus 69630-11-27 21:22 G 27153226.31 27153226.39 27153226.49 0.0142 0.0118

Neptune 69631-01-22 03:51 G 27153281.57 27153281.66 27153281.77 0.0089 0.0067

Uranus 69631-02-24 03:22 G 27153314.51 27153314.64 27153314.76 0.0142 0.0093

Neptune 69631-04-20 05:46 G 27153369.64 27153369.74 27153369.86 0.0089 0.0059

Uranus 69631-05-23 08:53 G 27153402.74 27153402.87 27153403.03 0.0142 0.0067

Neptune 69631-07-17 07:41 G 27153457.70 27153457.82 27153457.95 0.0089 0.0050

Uranus 69631-08-19 14:53 G 27153490.97 27153491.12 27153491.28 0.0142 0.0041

Neptune 69631-10-13 09:36 G 27153545.78 27153545.90 27153546.04 0.0089 0.0042

Uranus 69631-11-15 20:53 G 27153579.21 27153579.37 27153579.54 0.0142 0.0015

Neptune 69632-01-09 11:31 G 27153633.85 27153633.98 27153634.13 0.0089 0.0033

Uranus 69632-02-12 02:53 G 27153667.45 27153667.62 27153667.79 0.0142 0.0012

Neptune 69632-04-06 13:27 G 27153721.92 27153722.06 27153722.21 0.0089 0.0025

Uranus 69632-05-10 08:53 G 27153755.71 27153755.87 27153756.03 0.0142 0.0039

Neptune 69632-07-03 15:22 G 27153810.00 27153810.14 27153810.29 0.0089 0.0016

Uranus 69632-08-06 15:07 G 27153843.98 27153844.13 27153844.28 0.0142 0.0065

Neptune 69632-09-29 17:17 G 27153898.07 27153898.22 27153898.37 0.0089 0.0008

Uranus 69632-11-02 21:07 G 27153932.25 27153932.38 27153932.51 0.0142 0.0092

Neptune 69632-12-26 19:12 G 27153986.15 27153986.30 27153986.45 0.0089 0.0001

Uranus 69633-01-30 03:07 G 27154020.55 27154020.63 27154020.73 0.0142 0.0119

Neptune 69633-03-24 21:07 G 27154074.23 27154074.38 27154074.52 0.0089 0.0009

Neptune 69633-06-20 22:48 G 27154162.31 27154162.45 27154162.60 0.0089 0.0018

Neptune 69633-09-17 00:43 G 27154250.39 27154250.53 27154250.67 0.0089 0.0026

Neptune 69633-12-14 02:24 G 27154338.47 27154338.60 27154338.74 0.0089 0.0034

Neptune 69634-03-12 04:05 G 27154426.55 27154426.67 27154426.81 0.0089 0.0043

Neptune 69634-06-08 06:00 G 27154514.64 27154514.75 27154514.88 0.0089 0.0051

Neptune 69634-09-04 07:55 G 27154602.72 27154602.83 27154602.94 0.0089 0.0059

Jupiter 69634-10-04 22:19 G 27154633.33 27154633.43 27154633.54 0.0484 0.0366

Neptune 69634-12-01 09:22 G 27154690.81 27154690.89 27154691.00 0.0089 0.0068

Jupiter 69635-01-02 13:27 G 27154722.94 27154723.06 27154723.19 0.0483 0.0298

Neptune 69635-02-27 11:03 G 27154778.90 27154778.96 27154779.06 0.0089 0.0076

Neptune 69635-05-26 12:58 G 27154867.00 27154867.04 27154867.10 0.0089 0.0083

Earth 69636-08-07 20:53 G 27155306.26 27155306.37 27155306.47 0.2695 0.1333

Moon 69636-08-07 21:22 G 27155306.29 27155306.39 27155306.49 0.2690 0.1457 *

Mars 69638-02-11 19:55 G 27155859.21 27155859.33 27155859.46 0.1868 0.0264

Saturn 69638-07-08 07:12 G 27156005.80 27156005.80 27156005.81 0.0276 0.0276

Saturn 69638-10-04 22:05 G 27156094.29 27156094.42 27156094.56 0.0276 0.0131

Mars 69638-12-27 22:34 G 27156178.30 27156178.44 27156178.59 0.1655 0.0079

Saturn 69639-01-01 12:58 G 27156182.89 27156183.04 27156183.19 0.0276 0.0012

Moon 69639-02-05 22:19 G 27156218.29 27156218.43 27156218.57 0.2630 0.0239

Earth 69639-02-05 22:19 G 27156218.29 27156218.43 27156218.57 0.2636 0.0320 *

Saturn 69639-03-31 03:07 G 27156271.51 27156271.63 27156271.76 0.0276 0.0150

Jupiter 69640-12-07 14:39 G 27156888.97 27156889.11 27156889.24 0.0545 0.0216

Earth 69643-08-01 12:15 G 27157855.96 27157856.01 27157856.06 0.2698 0.2429

Moon 69643-08-01 12:29 G 27157855.97 27157856.02 27157856.07 0.2705 0.2448 *

Jupiter 69646-10-21 15:07 G 27159032.97 27159033.13 27159033.28 0.0483 0.0127

Mars 69647-07-05 01:27 G 27159289.48 27159289.56 27159289.65 0.1863 0.1352

Mars 69648-05-19 04:34 G 27159608.57 27159608.69 27159608.81 0.1659 0.0926

Moon 69649-08-10 17:03 G 27160057.17 27160057.21 27160057.25 0.2687 0.2528

Earth 69649-08-10 17:03 G 27160057.18 27160057.21 27160057.23 0.2694 0.2594 *

Moon 69652-02-08 21:51 G 27160969.28 27160969.41 27160969.53 0.2631 0.1122

Earth 69652-02-08 22:34 G 27160969.32 27160969.44 27160969.56 0.2637 0.1270 *

Jupiter 69652-09-25 16:34 G 27161199.04 27161199.19 27161199.33 0.0545 0.0015

Saturn 69653-07-16 08:53 G 27161492.76 27161492.87 27161492.99 0.0282 0.0184

Saturn 69653-10-13 01:12 G 27161581.39 27161581.55 27161581.70 0.0282 0.0031

Saturn 69654-01-09 17:31 G 27161670.09 27161670.23 27161670.38 0.0282 0.0126

Venus 69656-05-06 21:07 G 27162518.29 27162518.38 27162518.47 0.3693 0.2398

Earth 69656-08-03 09:07 G 27162606.77 27162606.88 27162606.99 0.2697 0.1052

Moon 69656-08-03 09:51 G 27162606.80 27162606.91 27162607.03 0.2700 0.0967 *

Jupiter 69658-08-09 16:48 G 27163343.04 27163343.20 27163343.36 0.0484 0.0038

Venus 69661-11-20 15:36 G 27164542.04 27164542.15 27164542.26 0.3692 0.0994

Jupiter 69664-07-14 17:46 G 27165509.11 27165509.24 27165509.38 0.0544 0.0203

Saturn 69668-02-21 23:03 G 27166826.34 27166826.46 27166826.58 0.0277 0.0176

Mars 69668-03-22 14:39 G 27166856.00 27166856.11 27166856.22 0.1873 0.0997

Saturn 69668-05-20 13:41 G 27166914.92 27166915.07 27166915.23 0.0277 0.0034

Saturn 69668-08-17 04:05 G 27167003.54 27167003.67 27167003.82 0.0277 0.0108

Saturn 69668-11-13 18:15 G 27167092.20 27167092.26 27167092.33 0.0277 0.0245

Mars 69669-02-04 16:34 G 27167175.07 27167175.19 27167175.31 0.1651 0.0872

Earth 69669-08-06 05:31 G 27167357.61 27167357.73 27167357.86 0.2696 0.0298

Moon 69669-08-06 06:29 G 27167357.65 27167357.77 27167357.89 0.2695 0.0433 *

Jupiter 69670-05-28 18:15 G 27167653.12 27167653.26 27167653.41 0.0484 0.0206

Jupiter 69670-08-26 09:51 G 27167742.88 27167742.91 27167742.96 0.0484 0.0468

Earth 69672-02-04 04:05 G 27168269.56 27168269.67 27168269.78 0.2635 0.1570

Moon 69672-02-04 04:48 G 27168269.59 27168269.70 27168269.82 0.2630 0.1424 *

Uranus 69673-12-05 07:41 G 27168939.79 27168939.82 27168939.88 0.0136 0.0128

Uranus 69674-03-03 12:00 G 27169027.92 27169028.00 27169028.10 0.0136 0.0107

Uranus 69674-05-30 16:19 G 27169116.07 27169116.18 27169116.30 0.0136 0.0086

Venus 69674-07-02 19:55 G 27169149.20 27169149.33 27169149.46 0.3679 0.0348

Uranus 69674-08-26 20:39 G 27169204.23 27169204.36 27169204.49 0.0136 0.0065

Uranus 69674-11-23 00:43 G 27169292.39 27169292.53 27169292.67 0.0136 0.0044

Uranus 69675-02-19 04:48 G 27169380.56 27169380.70 27169380.85 0.0136 0.0024

Uranus 69675-05-18 08:53 G 27169468.73 27169468.87 27169469.02 0.0136 0.0005

Uranus 69675-08-14 12:58 G 27169556.90 27169557.04 27169557.19 0.0136 0.0018

Uranus 69675-11-10 17:03 G 27169645.07 27169645.21 27169645.35 0.0136 0.0038

Uranus 69676-02-06 21:07 G 27169733.25 27169733.38 27169733.51 0.0136 0.0058

Jupiter 69676-05-02 18:43 G 27169819.19 27169819.28 27169819.37 0.0544 0.0427

Uranus 69676-05-05 00:58 G 27169821.43 27169821.54 27169821.67 0.0136 0.0078

Jupiter 69676-07-31 11:31 G 27169908.89 27169908.98 27169909.06 0.0545 0.0432

Uranus 69676-08-01 04:48 G 27169909.61 27169909.70 27169909.81 0.0136 0.0099

Uranus 69676-10-28 08:53 G 27169997.81 27169997.87 27169997.95 0.0136 0.0118

Mars 69677-08-12 19:55 G 27170286.20 27170286.33 27170286.46 0.1868 0.0154

Mars 69678-06-27 23:03 G 27170605.32 27170605.46 27170605.60 0.1655 0.0061

Pluto 69682-02-11 20:10 G 27171930.32 27171930.34 27171930.41 0.0065 0.0062

Jupiter 69682-03-16 20:24 G 27171963.25 27171963.35 27171963.45 0.0484 0.0366

Pluto 69682-05-10 21:07 G 27172018.30 27172018.38 27172018.49 0.0065 0.0051

Jupiter 69682-06-14 11:31 G 27172052.86 27172052.98 27172053.11 0.0484 0.0298

Pluto 69682-08-06 22:05 G 27172106.30 27172106.42 27172106.54 0.0065 0.0040

Earth 69682-08-09 01:55 G 27172108.48 27172108.58 27172108.68 0.2695 0.1575

Moon 69682-08-09 02:24 G 27172108.50 27172108.60 27172108.70 0.2689 0.1549 *

Pluto 69682-11-02 22:48 G 27172194.32 27172194.45 27172194.59 0.0065 0.0029

Saturn 69682-12-03 11:31 G 27172224.89 27172224.98 27172225.09 0.0282 0.0212

Pluto 69683-01-29 23:17 G 27172282.34 27172282.47 27172282.63 0.0065 0.0019

Saturn 69683-03-02 03:51 G 27172313.50 27172313.66 27172313.81 0.0282 0.0060

Pluto 69683-04-28 00:15 G 27172370.36 27172370.51 27172370.67 0.0065 0.0008

Saturn 69683-05-29 20:10 G 27172402.20 27172402.34 27172402.49 0.0282 0.0097

Pluto 69683-07-25 00:58 G 27172458.39 27172458.54 27172458.70 0.0065 0.0004

Saturn 69683-08-26 12:58 G 27172490.98 27172491.04 27172491.11 0.0282 0.0258

Pluto 69683-10-21 01:41 G 27172546.43 27172546.57 27172546.72 0.0065 0.0014

Pluto 69684-01-17 02:10 G 27172634.47 27172634.59 27172634.75 0.0065 0.0026

Pluto 69684-04-14 03:07 G 27172722.51 27172722.63 27172722.76 0.0065 0.0036

Pluto 69684-07-11 03:51 G 27172810.56 27172810.66 27172810.77 0.0065 0.0047

Pluto 69684-10-07 04:34 G 27172898.63 27172898.69 27172898.77 0.0066 0.0058

Moon 69685-02-06 03:51 G 27173020.52 27173020.66 27173020.80 0.2630 0.0126

Earth 69685-02-06 04:05 G 27173020.53 27173020.67 27173020.80 0.2636 0.0093 *

Mars 69687-01-03 01:41 G 27173716.48 27173716.57 27173716.67 0.1863 0.1220

Mars 69687-11-18 05:03 G 27174035.58 27174035.71 27174035.83 0.1659 0.0798

Jupiter 69688-05-19 12:15 G 27174218.88 27174219.01 27174219.14 0.0545 0.0207

Earth 69689-08-01 17:31 G 27174658.16 27174658.23 27174658.30 0.2698 0.2171

Moon 69689-08-01 17:46 G 27174658.17 27174658.24 27174658.32 0.2704 0.2101 *

Jupiter 69694-04-02 13:27 G 27176362.90 27176363.06 27176363.21 0.0483 0.0134

Saturn 69697-07-11 01:41 G 27177558.47 27177558.57 27177558.67 0.0276 0.0204

Saturn 69697-10-07 16:34 G 27177647.04 27177647.19 27177647.34 0.0276 0.0061

Saturn 69698-01-04 06:58 G 27177735.65 27177735.79 27177735.94 0.0276 0.0079

Moon 69698-02-09 03:22 G 27177771.53 27177771.64 27177771.75 0.2632 0.1574

Earth 69698-02-09 04:19 G 27177771.57 27177771.68 27177771.79 0.2637 0.1576 *

Saturn 69698-04-02 21:07 G 27177824.29 27177824.38 27177824.47 0.0276 0.0216

Jupiter 69700-03-08 13:55 G 27178528.94 27178529.08 27178529.23 0.0545 0.0015

Earth 69702-08-05 14:24 G 27179408.98 27179409.10 27179409.21 0.2697 0.0801

Moon 69702-08-05 15:07 G 27179409.02 27179409.13 27179409.25 0.2699 0.0732 *

Jupiter 69706-01-20 14:53 G 27180672.97 27180673.12 27180673.28 0.0483 0.0037

Mars 69707-09-22 14:53 G 27181283.01 27181283.12 27181283.22 0.1873 0.1119

Mars 69708-08-06 16:48 G 27181602.09 27181602.20 27181602.32 0.1651 0.0997

Jupiter 69711-12-26 15:51 G 27182839.03 27182839.16 27182839.29 0.0545 0.0207

Saturn 69712-04-22 11:31 G 27182956.93 27182956.98 27182957.04 0.0282 0.0263

Saturn 69712-07-20 03:22 G 27183045.50 27183045.64 27183045.79 0.0282 0.0113

Saturn 69712-10-16 19:55 G 27183134.17 27183134.33 27183134.48 0.0282 0.0043

Venus 69712-12-12 19:27 G 27183191.20 27183191.31 27183191.41 0.3693 0.1142

Saturn 69713-01-13 12:29 G 27183222.91 27183223.02 27183223.13 0.0283 0.0201

Neptune 69713-10-05 05:46 G 27183487.70 27183487.74 27183487.81 0.0088 0.0082

Neptune 69714-01-01 08:24 G 27183575.76 27183575.85 27183575.94 0.0088 0.0073

Neptune 69714-03-30 10:34 G 27183663.84 27183663.94 27183664.06 0.0088 0.0065

Neptune 69714-06-26 12:58 G 27183751.92 27183752.04 27183752.18 0.0088 0.0056

Uranus 69714-09-21 22:34 G 27183839.41 27183839.44 27183839.49 0.0142 0.0137

Neptune 69714-09-22 15:22 G 27183840.01 27183840.14 27183840.29 0.0088 0.0047

Uranus 69714-12-19 04:19 G 27183927.59 27183927.68 27183927.79 0.0142 0.0111

Neptune 69714-12-19 18:00 G 27183928.10 27183928.25 27183928.40 0.0088 0.0038

Uranus 69715-03-17 10:19 G 27184015.80 27184015.93 27184016.06 0.0142 0.0085

Neptune 69715-03-17 20:24 G 27184016.19 27184016.35 27184016.51 0.0088 0.0029

Uranus 69715-06-13 16:05 G 27184104.03 27184104.17 27184104.33 0.0142 0.0060

Neptune 69715-06-13 22:48 G 27184104.29 27184104.45 27184104.61 0.0088 0.0020 *

Earth 69715-08-08 10:48 G 27184159.83 27184159.95 27184160.07 0.2696 0.0533

Moon 69715-08-08 11:46 G 27184159.87 27184159.99 27184160.10 0.2694 0.0594 *

Uranus 69715-09-09 22:05 G 27184192.26 27184192.42 27184192.58 0.0142 0.0033

Neptune 69715-09-10 01:12 G 27184192.39 27184192.55 27184192.72 0.0088 0.0012 *

Neptune 69715-12-07 03:51 G 27184280.49 27184280.66 27184280.82 0.0088 0.0003

Uranus 69715-12-07 04:05 G 27184280.50 27184280.67 27184280.83 0.0142 0.0007 *

Neptune 69716-03-04 06:15 G 27184368.59 27184368.76 27184368.93 0.0088 0.0007

Uranus 69716-03-04 09:51 G 27184368.75 27184368.91 27184369.08 0.0142 0.0020 *

Neptune 69716-05-31 08:39 G 27184456.70 27184456.86 27184457.03 0.0088 0.0016

Uranus 69716-05-31 15:51 G 27184457.01 27184457.16 27184457.33 0.0142 0.0046 *

Neptune 69716-08-27 11:03 G 27184544.80 27184544.96 27184545.13 0.0088 0.0025

Uranus 69716-08-27 21:51 G 27184545.28 27184545.41 27184545.56 0.0142 0.0073

Neptune 69716-11-23 13:27 G 27184632.91 27184633.06 27184633.23 0.0088 0.0034

Uranus 69716-11-24 04:05 G 27184633.56 27184633.67 27184633.79 0.0142 0.0100

Mars 69717-02-11 20:10 G 27184713.21 27184713.34 27184713.47 0.1868 0.0019

Neptune 69717-02-19 16:05 G 27184721.03 27184721.17 27184721.32 0.0088 0.0043

Uranus 69717-02-20 10:05 G 27184721.86 27184721.92 27184722.01 0.0142 0.0127

Neptune 69717-05-18 18:43 G 27184809.14 27184809.28 27184809.42 0.0088 0.0052

Neptune 69717-08-14 20:53 G 27184897.27 27184897.37 27184897.51 0.0088 0.0062

Jupiter 69717-11-08 17:03 G 27184983.06 27184983.21 27184983.35 0.0484 0.0196

Neptune 69717-11-10 23:31 G 27184985.39 27184985.48 27184985.59 0.0088 0.0071

Mars 69717-12-27 23:17 G 27185032.33 27185032.47 27185032.61 0.1655 0.0178

Earth 69718-02-05 09:51 G 27185071.79 27185071.91 27185072.02 0.2635 0.1281

Moon 69718-02-05 10:19 G 27185071.81 27185071.93 27185072.05 0.2630 0.1255 *

Jupiter 69718-02-06 08:24 G 27185072.83 27185072.85 27185072.88 0.0483 0.0475

Neptune 69718-02-07 02:10 G 27185073.53 27185073.59 27185073.67 0.0088 0.0080

Venus 69718-06-28 13:55 G 27185214.99 27185215.08 27185215.17 0.3692 0.2209

Jupiter 69723-10-14 17:17 G 27187149.13 27187149.22 27187149.31 0.0544 0.0420

Jupiter 69724-01-12 10:05 G 27187238.84 27187238.92 27187239.00 0.0545 0.0440

Venus 69725-07-24 20:39 G 27187798.27 27187798.36 27187798.45 0.3678 0.2518

Mars 69726-07-05 01:41 G 27188143.47 27188143.57 27188143.67 0.1863 0.1105

Saturn 69726-11-29 01:55 G 27188290.52 27188290.58 27188290.64 0.0277 0.0254

Saturn 69727-02-25 16:48 G 27188379.06 27188379.20 27188379.34 0.0277 0.0110

Mars 69727-05-20 05:17 G 27188462.59 27188462.72 27188462.85 0.1659 0.0668

Saturn 69727-05-25 07:27 G 27188467.66 27188467.81 27188467.96 0.0277 0.0033

Saturn 69727-08-21 21:51 G 27188556.29 27188556.41 27188556.53 0.0277 0.0171

Earth 69728-08-10 07:12 G 27188910.71 27188910.80 27188910.88 0.2695 0.1819

Moon 69728-08-10 07:27 G 27188910.73 27188910.81 27188910.90 0.2688 0.1919 *

Jupiter 69729-08-27 18:29 G 27189293.17 27189293.27 27189293.38 0.0484 0.0363

Jupiter 69729-11-25 09:51 G 27189382.78 27189382.91 27189383.03 0.0484 0.0302

Venus 69731-02-07 19:12 G 27189822.19 27189822.30 27189822.40 0.3679 0.1998

Moon 69731-02-08 09:22 G 27189822.75 27189822.89 27189823.03 0.2630 0.0309

Earth 69731-02-08 09:36 G 27189822.77 27189822.90 27189823.04 0.2636 0.0271 *

Earth 69735-08-03 22:48 G 27191460.36 27191460.45 27191460.53 0.2698 0.1908

Moon 69735-08-03 23:17 G 27191460.39 27191460.47 27191460.55 0.2703 0.1927 *

Jupiter 69735-10-31 11:31 G 27191548.85 27191548.98 27191549.11 0.0545 0.0226

Mars 69736-10-09 11:17 G 27191892.91 27191892.97 27191893.02 0.1663 0.1536

Jupiter 69741-09-13 11:31 G 27193692.82 27193692.98 27193693.13 0.0484 0.0136

Saturn 69741-12-07 05:46 G 27193777.61 27193777.74 27193777.87 0.0282 0.0144

Saturn 69742-03-05 22:05 G 27193866.26 27193866.42 27193866.57 0.0282 0.0011

Saturn 69742-06-02 14:39 G 27193954.98 27193955.11 27193955.24 0.0282 0.0168

Moon 69744-02-11 08:53 G 27194573.77 27194573.87 27194573.98 0.2634 0.1694

Earth 69744-02-11 09:51 G 27194573.82 27194573.91 27194574.01 0.2638 0.1878 *

Mars 69747-03-23 14:53 G 27195710.03 27195710.12 27195710.22 0.1873 0.1252

Jupiter 69747-08-19 12:00 G 27195858.85 27195859.00 27195859.14 0.0545 0.0010

Mars 69748-02-05 17:17 G 27196029.12 27196029.22 27196029.32 0.1651 0.1120

Earth 69748-08-05 19:27 G 27196211.19 27196211.31 27196211.43 0.2697 0.0548

Moon 69748-08-05 20:24 G 27196211.23 27196211.35 27196211.47 0.2699 0.0416 *

Earth 69751-02-03 15:51 G 27197123.12 27197123.16 27197123.20 0.2634 0.2493

Moon 69751-02-03 16:48 G 27197123.14 27197123.20 27197123.26 0.2631 0.2347 *

Jupiter 69753-07-02 13:27 G 27198002.90 27198003.06 27198003.22 0.0484 0.0026

Saturn 69756-07-14 19:41 G 27199111.19 27199111.32 27199111.45 0.0276 0.0137

Mars 69756-08-12 20:10 G 27199140.21 27199140.34 27199140.47 0.1868 0.0123

Saturn 69756-10-11 10:19 G 27199199.78 27199199.93 27199200.08 0.0276 0.0007

Saturn 69757-01-08 00:43 G 27199288.40 27199288.53 27199288.66 0.0276 0.0144

Mars 69757-06-27 23:31 G 27199459.34 27199459.48 27199459.62 0.1655 0.0304

Uranus 69757-12-26 14:53 G 27199641.06 27199641.12 27199641.18 0.0136 0.0122

Uranus 69758-03-24 18:43 G 27199729.20 27199729.28 27199729.39 0.0136 0.0102

Uranus 69758-06-20 23:03 G 27199817.35 27199817.46 27199817.59 0.0136 0.0081

Uranus 69758-09-17 03:22 G 27199905.51 27199905.64 27199905.78 0.0136 0.0060

Uranus 69758-12-14 07:41 G 27199993.68 27199993.82 27199993.96 0.0136 0.0039

Uranus 69759-03-12 11:46 G 27200081.84 27200081.99 27200082.14 0.0136 0.0018

Jupiter 69759-06-07 13:27 G 27200168.93 27200169.06 27200169.19 0.0545 0.0219

Uranus 69759-06-08 15:51 G 27200170.01 27200170.16 27200170.31 0.0136 0.0002

Uranus 69759-09-04 19:55 G 27200258.19 27200258.33 27200258.48 0.0136 0.0023

Uranus 69759-12-02 00:00 G 27200346.36 27200346.50 27200346.64 0.0136 0.0043

Uranus 69760-02-28 03:51 G 27200434.54 27200434.66 27200434.80 0.0136 0.0064

Uranus 69760-05-26 07:55 G 27200522.72 27200522.83 27200522.95 0.0136 0.0083

Uranus 69760-08-22 11:46 G 27200610.91 27200610.99 27200611.09 0.0136 0.0104

Uranus 69760-11-18 15:36 G 27200699.10 27200699.15 27200699.22 0.0136 0.0124

Earth 69761-08-08 16:05 G 27200962.05 27200962.17 27200962.28 0.2696 0.0779

Moon 69761-08-08 16:48 G 27200962.08 27200962.20 27200962.31 0.2692 0.0851 *

Venus 69764-01-03 22:48 G 27201840.40 27201840.45 27201840.50 0.3694 0.3303

Earth 69764-02-06 15:22 G 27201874.01 27201874.14 27201874.27 0.2636 0.0997

Moon 69764-02-06 15:51 G 27201874.03 27201874.16 27201874.28 0.2630 0.0952 *

Jupiter 69765-04-20 15:07 G 27202312.99 27202313.13 27202313.28 0.0483 0.0191

Jupiter 69765-07-19 06:43 G 27202402.77 27202402.78 27202402.80 0.0483 0.0480

Mars 69766-01-03 01:41 G 27202570.47 27202570.57 27202570.68 0.1863 0.0981

Mars 69766-11-18 05:46 G 27202889.60 27202889.74 27202889.87 0.1659 0.0539

Venus 69769-07-19 17:31 G 27203864.12 27203864.23 27203864.35 0.3692 0.0144

Pluto 69770-11-03 06:15 G 27204335.69 27204335.76 27204335.86 0.0079 0.0068

Pluto 69771-01-30 08:10 G 27204423.72 27204423.84 27204423.98 0.0079 0.0047

Jupiter 69771-03-26 15:07 G 27204479.04 27204479.13 27204479.22 0.0545 0.0426

Saturn 69771-04-26 05:31 G 27204509.62 27204509.73 27204509.84 0.0282 0.0196

Pluto 69771-04-28 10:05 G 27204511.77 27204511.92 27204512.08 0.0079 0.0025

Jupiter 69771-06-24 08:10 G 27204568.76 27204568.84 27204568.92 0.0545 0.0438

Saturn 69771-07-23 21:36 G 27204598.25 27204598.40 27204598.56 0.0282 0.0044

Pluto 69771-07-25 12:00 G 27204599.84 27204600.00 27204600.16 0.0079 0.0004

Saturn 69771-10-20 14:10 G 27204686.94 27204687.09 27204687.23 0.0283 0.0113

Pluto 69771-10-21 13:41 G 27204687.91 27204688.07 27204688.24 0.0079 0.0017

Saturn 69772-01-17 06:43 G 27204775.75 27204775.78 27204775.83 0.0283 0.0273

Pluto 69772-01-17 15:22 G 27204776.01 27204776.14 27204776.29 0.0079 0.0038

Pluto 69772-04-14 17:03 G 27204864.12 27204864.21 27204864.33 0.0079 0.0059

Earth 69774-08-11 12:15 G 27205712.94 27205713.01 27205713.09 0.2695 0.2062

Moon 69774-08-11 12:43 G 27205712.95 27205713.03 27205713.10 0.2688 0.2046 *

Venus 69775-02-02 12:00 G 27205887.96 27205888.00 27205888.04 0.3691 0.3428

Mars 69776-04-09 11:17 G 27206319.90 27206319.97 27206320.05 0.1663 0.1413

Jupiter 69777-02-06 17:17 G 27206623.11 27206623.22 27206623.33 0.0484 0.0350

Moon 69777-02-08 14:53 G 27206624.99 27206625.12 27206625.26 0.2630 0.0478

Earth 69777-02-08 15:22 G 27206625.00 27206625.14 27206625.27 0.2637 0.0565 *

Jupiter 69777-05-07 08:24 G 27206712.73 27206712.85 27206712.97 0.0483 0.0312

Earth 69781-08-04 04:05 G 27208262.57 27208262.67 27208262.76 0.2697 0.1654

Moon 69781-08-04 04:34 G 27208262.59 27208262.69 27208262.79 0.2702 0.1511 *

Venus 69782-02-28 19:55 G 27208471.21 27208471.33 27208471.45 0.3678 0.0913

Jupiter 69783-04-12 10:05 G 27208878.79 27208878.92 27208879.04 0.0545 0.0235

Saturn 69785-12-01 19:41 G 27209843.21 27209843.32 27209843.44 0.0277 0.0188

Saturn 69786-02-28 10:34 G 27209931.79 27209931.94 27209932.09 0.0276 0.0045

Saturn 69786-05-28 01:12 G 27210020.41 27210020.55 27210020.69 0.0276 0.0095

Saturn 69786-08-24 15:07 G 27210109.06 27210109.13 27210109.22 0.0276 0.0233

Mars 69786-09-21 14:53 G 27210137.04 27210137.12 27210137.21 0.1873 0.1373

Mars 69787-08-06 17:31 G 27210456.14 27210456.23 27210456.32 0.1651 0.1237

Venus 69787-09-14 18:29 G 27210495.27 27210495.27 27210495.27 0.3679 0.3678

Jupiter 69789-02-23 09:51 G 27211022.75 27211022.91 27211023.06 0.0484 0.0142

Moon 69790-02-11 14:39 G 27211376.03 27211376.11 27211376.19 0.2635 0.2149

Earth 69790-02-11 15:51 G 27211376.08 27211376.16 27211376.23 0.2638 0.2188 *

Earth 69794-08-07 00:43 G 27213013.41 27213013.53 27213013.65 0.2697 0.0295

Moon 69794-08-07 01:41 G 27213013.45 27213013.57 27213013.69 0.2698 0.0268 *

Neptune 69795-01-28 21:36 G 27213188.38 27213188.40 27213188.43 0.0089 0.0088

Jupiter 69795-01-29 11:17 G 27213188.83 27213188.97 27213189.11 0.0545 0.0018

Neptune 69795-04-26 23:17 G 27213276.42 27213276.47 27213276.56 0.0089 0.0080

Neptune 69795-07-24 01:27 G 27213364.48 27213364.56 27213364.66 0.0089 0.0070

Neptune 69795-10-20 03:22 G 27213452.54 27213452.64 27213452.76 0.0089 0.0062

Neptune 69796-01-16 05:17 G 27213540.61 27213540.72 27213540.85 0.0089 0.0053

Mars 69796-02-11 20:10 G 27213567.21 27213567.34 27213567.47 0.1868 0.0229

Neptune 69796-04-13 07:12 G 27213628.68 27213628.80 27213628.94 0.0089 0.0045

Neptune 69796-07-10 09:22 G 27213716.75 27213716.89 27213717.03 0.0089 0.0036

Neptune 69796-10-06 11:17 G 27213804.83 27213804.97 27213805.11 0.0089 0.0027

Mars 69796-12-27 00:00 G 27213886.36 27213886.50 27213886.64 0.1655 0.0436

Neptune 69797-01-02 13:12 G 27213892.90 27213893.05 27213893.20 0.0089 0.0019

Earth 69797-02-03 21:22 G 27213925.32 27213925.39 27213925.46 0.2635 0.2213

Moon 69797-02-03 22:19 G 27213925.36 27213925.43 27213925.51 0.2632 0.2161 *

Neptune 69797-03-31 15:07 G 27213980.98 27213981.13 27213981.28 0.0089 0.0010

Neptune 69797-06-27 17:03 G 27214069.06 27214069.21 27214069.36 0.0089 0.0003

Neptune 69797-09-23 18:43 G 27214157.14 27214157.28 27214157.43 0.0089 0.0007

Neptune 69797-12-20 20:39 G 27214245.22 27214245.36 27214245.51 0.0089 0.0015

Neptune 69798-03-18 22:19 G 27214333.30 27214333.43 27214333.58 0.0089 0.0024

Neptune 69798-06-15 00:15 G 27214421.38 27214421.51 27214421.65 0.0089 0.0032

Neptune 69798-09-11 02:10 G 27214509.46 27214509.59 27214509.72 0.0089 0.0040

Uranus 69798-10-12 06:00 G 27214540.69 27214540.75 27214540.82 0.0142 0.0129

Neptune 69798-12-08 03:51 G 27214597.54 27214597.66 27214597.79 0.0089 0.0048

Uranus 69799-01-08 11:31 G 27214628.88 27214628.98 27214629.11 0.0142 0.0104

Neptune 69799-03-06 05:31 G 27214685.63 27214685.73 27214685.86 0.0089 0.0057

Uranus 69799-04-06 17:31 G 27214717.10 27214717.23 27214717.37 0.0142 0.0077

Neptune 69799-06-02 07:27 G 27214773.72 27214773.81 27214773.92 0.0089 0.0064

Uranus 69799-07-03 23:31 G 27214805.32 27214805.48 27214805.63 0.0142 0.0051

Neptune 69799-08-29 09:07 G 27214861.81 27214861.88 27214861.97 0.0089 0.0073

Uranus 69799-09-30 05:17 G 27214893.56 27214893.72 27214893.89 0.0142 0.0025

Neptune 69799-11-25 11:03 G 27214949.90 27214949.96 27214950.03 0.0089 0.0081

Uranus 69799-12-27 11:17 G 27214981.80 27214981.97 27214982.14 0.0142 0.0001

Neptune 69800-02-21 12:43 G 27215038.02 27215038.03 27215038.05 0.0089 0.0089

Uranus 69800-03-25 17:17 G 27215070.06 27215070.22 27215070.38 0.0142 0.0028

Uranus 69800-06-21 23:17 G 27215158.32 27215158.47 27215158.63 0.0142 0.0054

Saturn 69800-09-13 07:12 G 27215241.72 27215241.80 27215241.89 0.0282 0.0233

Uranus 69800-09-18 05:17 G 27215246.59 27215246.72 27215246.86 0.0142 0.0081

Saturn 69800-12-10 23:17 G 27215330.32 27215330.47 27215330.62 0.0282 0.0082

Jupiter 69800-12-13 11:46 G 27215332.83 27215332.99 27215333.14 0.0484 0.0024

Uranus 69800-12-15 11:17 G 27215334.87 27215334.97 27215335.09 0.0142 0.0108

Saturn 69801-03-09 15:36 G 27215419.00 27215419.15 27215419.30 0.0282 0.0074

Uranus 69801-03-13 17:31 G 27215423.19 27215423.23 27215423.28 0.0142 0.0135

Saturn 69801-06-06 08:24 G 27215507.76 27215507.85 27215507.94 0.0283 0.0233

Mars 69805-07-05 01:55 G 27216997.47 27216997.58 27216997.70 0.1863 0.0848

Mars 69806-05-20 06:00 G 27217316.61 27217316.75 27217316.89 0.1659 0.0410

Jupiter 69806-11-18 11:31 G 27217498.85 27217498.98 27217499.11 0.0545 0.0220

Earth 69807-08-10 21:07 G 27217764.27 27217764.38 27217764.49 0.2696 0.1023

Moon 69807-08-10 21:51 G 27217764.30 27217764.41 27217764.52 0.2691 0.1122 *

Earth 69810-02-07 21:07 G 27218676.24 27218676.38 27218676.51 0.2636 0.0711

Moon 69810-02-07 21:07 G 27218676.25 27218676.38 27218676.52 0.2629 0.0664 *

Jupiter 69812-10-01 13:55 G 27219642.93 27219643.08 27219643.22 0.0484 0.0180

Saturn 69815-04-21 22:19 G 27220575.34 27220575.43 27220575.53 0.0276 0.0216

Saturn 69815-07-19 13:27 G 27220663.91 27220664.06 27220664.21 0.0276 0.0072

Mars 69815-10-10 11:46 G 27220746.90 27220746.99 27220747.08 0.1663 0.1276

Saturn 69815-10-16 03:51 G 27220752.52 27220752.66 27220752.81 0.0276 0.0069

Saturn 69816-01-12 18:15 G 27220841.16 27220841.26 27220841.36 0.0276 0.0205

Jupiter 69818-09-06 12:43 G 27221808.95 27221809.03 27221809.12 0.0545 0.0436

Jupiter 69818-12-05 05:46 G 27221898.66 27221898.74 27221898.83 0.0545 0.0429

Venus 69820-08-10 21:07 G 27222513.29 27222513.38 27222513.48 0.3693 0.2007

Moon 69820-08-12 17:31 G 27222515.17 27222515.23 27222515.29 0.2688 0.2324

Earth 69820-08-12 17:31 G 27222515.17 27222515.23 27222515.29 0.2694 0.2299 *

Moon 69823-02-10 20:24 G 27223427.22 27223427.35 27223427.49 0.2631 0.0844

Earth 69823-02-10 21:07 G 27223427.25 27223427.38 27223427.51 0.2637 0.0865 *

Jupiter 69824-07-20 15:51 G 27223953.05 27223953.16 27223953.27 0.0484 0.0342

Jupiter 69824-10-18 06:43 G 27224042.67 27224042.78 27224042.90 0.0483 0.0321

Venus 69826-02-24 15:51 G 27224537.05 27224537.16 27224537.26 0.3692 0.1384

Mars 69826-03-23 15:07 G 27224564.06 27224564.13 27224564.21 0.1873 0.1503

Mars 69827-02-05 17:46 G 27224883.17 27224883.24 27224883.32 0.1651 0.1362

Earth 69827-08-06 09:07 G 27225064.78 27225064.88 27225064.99 0.2697 0.1395

Moon 69827-08-06 10:05 G 27225064.81 27225064.92 27225065.02 0.2702 0.1400 *

Saturn 69830-04-29 23:03 G 27226062.33 27226062.46 27226062.60 0.0282 0.0133

Saturn 69830-07-27 15:22 G 27226150.98 27226151.14 27226151.30 0.0283 0.0021

Jupiter 69830-09-23 07:55 G 27226208.70 27226208.83 27226208.96 0.0545 0.0232

Saturn 69830-10-24 07:55 G 27226239.71 27226239.83 27226239.95 0.0283 0.0179

Mars 69835-08-13 20:24 G 27227994.22 27227994.35 27227994.48 0.1868 0.0362

Moon 69836-02-13 20:10 G 27228178.28 27228178.34 27228178.41 0.2636 0.2294

Earth 69836-02-13 21:22 G 27228178.35 27228178.39 27228178.44 0.2638 0.2492 *

Mars 69836-06-28 00:15 G 27228313.37 27228313.51 27228313.64 0.1655 0.0553

Jupiter 69836-08-06 08:39 G 27228352.71 27228352.86 27228353.01 0.0483 0.0155

Venus 69838-10-06 18:58 G 27229144.17 27229144.29 27229144.42 0.3679 0.0710

Earth 69840-08-08 06:00 G 27229815.62 27229815.75 27229815.87 0.2696 0.0107

Moon 69840-08-08 06:43 G 27229815.66 27229815.78 27229815.90 0.2696 0.0122 *

Uranus 69842-01-16 21:36 G 27230342.34 27230342.40 27230342.49 0.0136 0.0117

Uranus 69842-04-15 01:55 G 27230430.48 27230430.58 27230430.69 0.0136 0.0096

Uranus 69842-07-12 06:15 G 27230518.64 27230518.76 27230518.89 0.0136 0.0074

Jupiter 69842-07-12 09:51 G 27230518.77 27230518.91 27230519.06 0.0545 0.0029 *

Uranus 69842-10-08 10:19 G 27230606.80 27230606.93 27230607.08 0.0136 0.0054

Uranus 69843-01-04 14:39 G 27230694.97 27230695.11 27230695.26 0.0136 0.0033

Earth 69843-02-06 02:53 G 27230727.53 27230727.62 27230727.71 0.2635 0.1936

Moon 69843-02-06 03:51 G 27230727.56 27230727.66 27230727.76 0.2631 0.1779 *

Uranus 69843-04-02 18:43 G 27230783.14 27230783.28 27230783.43 0.0136 0.0013

Uranus 69843-06-29 22:48 G 27230871.31 27230871.45 27230871.60 0.0136 0.0009

Uranus 69843-09-26 02:53 G 27230959.48 27230959.62 27230959.77 0.0136 0.0029

Uranus 69843-12-23 06:58 G 27231047.66 27231047.79 27231047.93 0.0136 0.0049

Uranus 69844-03-20 10:48 G 27231135.84 27231135.95 27231136.09 0.0136 0.0070

Uranus 69844-06-16 14:53 G 27231224.02 27231224.12 27231224.24 0.0136 0.0089

Saturn 69844-09-07 22:05 G 27231307.40 27231307.42 27231307.46 0.0276 0.0270

Uranus 69844-09-12 18:43 G 27231312.21 27231312.28 27231312.38 0.0136 0.0110

Saturn 69844-12-05 13:12 G 27231395.92 27231396.05 27231396.19 0.0276 0.0125

Uranus 69844-12-09 22:34 G 27231400.41 27231400.44 27231400.50 0.0136 0.0130

Mars 69845-01-03 01:55 G 27231424.46 27231424.58 27231424.70 0.1863 0.0733

Saturn 69845-03-04 03:51 G 27231484.51 27231484.66 27231484.82 0.0276 0.0018

Saturn 69845-05-31 18:15 G 27231573.14 27231573.26 27231573.39 0.0276 0.0155

Mars 69845-11-18 06:29 G 27231743.62 27231743.77 27231743.91 0.1659 0.0283

Jupiter 69848-05-25 10:05 G 27232662.76 27232662.92 27232663.08 0.0484 0.0016

Earth 69853-08-11 02:24 G 27234566.49 27234566.60 27234566.70 0.2695 0.1269

Moon 69853-08-11 03:07 G 27234566.52 27234566.63 27234566.73 0.2691 0.1301 *

Jupiter 69854-04-30 11:03 G 27234828.83 27234828.96 27234829.10 0.0545 0.0191

Mars 69854-05-26 07:55 G 27234854.80 27234854.83 27234854.86 0.1858 0.1782

Mars 69855-04-10 12:15 G 27235173.91 27235174.01 27235174.11 0.1663 0.1141

Earth 69856-02-09 02:39 G 27235478.47 27235478.61 27235478.74 0.2636 0.0418

Moon 69856-02-09 02:39 G 27235478.48 27235478.61 27235478.75 0.2629 0.0454 *

Saturn 69859-09-17 00:15 G 27236794.39 27236794.51 27236794.63 0.0282 0.0176

Saturn 69859-12-14 16:19 G 27236883.03 27236883.18 27236883.34 0.0282 0.0023

Saturn 69860-03-12 08:53 G 27236971.73 27236971.87 27236972.01 0.0283 0.0134

Jupiter 69860-03-13 12:15 G 27236972.86 27236973.01 27236973.16 0.0484 0.0173

Earth 69860-08-03 17:31 G 27237116.19 27237116.23 27237116.27 0.2698 0.2521

Moon 69860-08-03 17:46 G 27237116.20 27237116.24 27237116.28 0.2705 0.2540 *

Mars 69865-09-21 15:22 G 27238991.07 27238991.14 27238991.20 0.1873 0.1629

Jupiter 69866-02-16 11:03 G 27239138.88 27239138.96 27239139.05 0.0544 0.0433

Jupiter 69866-05-17 04:05 G 27239228.59 27239228.67 27239228.76 0.0545 0.0432

Mars 69866-08-06 18:15 G 27239310.20 27239310.26 27239310.32 0.1651 0.1482

Moon 69866-08-13 22:34 G 27239317.40 27239317.44 27239317.47 0.2688 0.2533

Earth 69866-08-13 22:34 G 27239317.40 27239317.44 27239317.48 0.2694 0.2535 *

Moon 69869-02-11 01:55 G 27240229.46 27240229.58 27240229.71 0.2632 0.1093

Earth 69869-02-11 02:39 G 27240229.49 27240229.61 27240229.74 0.2637 0.1167 *

Jupiter 69871-12-31 14:39 G 27241282.99 27241283.11 27241283.22 0.0484 0.0329

Jupiter 69872-03-30 05:31 G 27241372.62 27241372.73 27241372.85 0.0483 0.0335

Earth 69873-08-06 14:24 G 27241866.99 27241867.10 27241867.21 0.2697 0.1138

Moon 69873-08-06 15:07 G 27241867.02 27241867.13 27241867.24 0.2702 0.0987 *

Saturn 69874-04-24 16:05 G 27242128.04 27242128.17 27242128.30 0.0276 0.0152

Saturn 69874-07-22 06:43 G 27242216.63 27242216.78 27242216.94 0.0276 0.0012

Saturn 69874-10-18 21:07 G 27242305.25 27242305.38 27242305.52 0.0276 0.0129

Saturn 69875-01-15 11:17 G 27242393.93 27242393.97 27242394.01 0.0276 0.0264

Mars 69875-02-11 20:39 G 27242421.23 27242421.36 27242421.48 0.1868 0.0499

Mars 69875-12-28 00:29 G 27242740.39 27242740.52 27242740.65 0.1655 0.0680

Venus 69877-03-17 19:27 G 27243186.20 27243186.31 27243186.42 0.3693 0.0728

Jupiter 69878-03-05 05:46 G 27243538.61 27243538.74 27243538.87 0.0545 0.0225

Neptune 69878-04-06 02:39 G 27243570.58 27243570.61 27243570.66 0.0088 0.0085

Neptune 69878-07-03 05:17 G 27243658.64 27243658.72 27243658.80 0.0088 0.0076

Neptune 69878-09-29 07:12 G 27243746.71 27243746.80 27243746.92 0.0088 0.0068

Neptune 69878-12-26 09:51 G 27243834.79 27243834.91 27243835.04 0.0088 0.0059

Neptune 69879-03-24 12:15 G 27243922.88 27243923.01 27243923.15 0.0088 0.0050

Neptune 69879-06-20 14:24 G 27244010.97 27244011.10 27244011.26 0.0088 0.0042

Neptune 69879-09-16 16:48 G 27244099.06 27244099.20 27244099.37 0.0088 0.0033

Neptune 69879-12-13 19:27 G 27244187.15 27244187.31 27244187.47 0.0088 0.0024

Neptune 69880-03-10 21:51 G 27244275.25 27244275.41 27244275.58 0.0088 0.0015

Neptune 69880-06-07 00:15 G 27244363.35 27244363.51 27244363.68 0.0088 0.0006

Neptune 69880-09-03 02:39 G 27244451.45 27244451.61 27244451.78 0.0088 0.0004

Neptune 69880-11-30 05:17 G 27244539.55 27244539.72 27244539.88 0.0088 0.0012

Neptune 69881-02-26 07:41 G 27244627.66 27244627.82 27244627.98 0.0088 0.0021

Neptune 69881-05-25 10:05 G 27244715.77 27244715.92 27244716.08 0.0088 0.0030

Neptune 69881-08-21 12:15 G 27244803.88 27244804.01 27244804.18 0.0088 0.0040

Neptune 69881-11-17 14:53 G 27244891.99 27244892.12 27244892.27 0.0088 0.0049

Neptune 69882-02-13 17:17 G 27244980.11 27244980.22 27244980.36 0.0088 0.0058

Neptune 69882-05-12 19:55 G 27245068.23 27245068.33 27245068.45 0.0088 0.0067

Neptune 69882-08-08 22:34 G 27245156.37 27245156.44 27245156.53 0.0088 0.0076

Venus 69882-10-01 13:55 G 27245210.00 27245210.08 27245210.16 0.3692 0.2617

Uranus 69882-11-02 13:27 G 27245241.97 27245242.06 27245242.14 0.0142 0.0121

Neptune 69882-11-05 00:58 G 27245244.52 27245244.54 27245244.59 0.0088 0.0086

Uranus 69883-01-29 18:58 G 27245330.18 27245330.29 27245330.42 0.0142 0.0095

Uranus 69883-04-28 00:43 G 27245418.39 27245418.53 27245418.68 0.0142 0.0070

Uranus 69883-07-25 06:43 G 27245506.62 27245506.78 27245506.94 0.0142 0.0043

Uranus 69883-10-21 12:43 G 27245594.86 27245595.03 27245595.19 0.0142 0.0018

Jupiter 69884-01-17 07:12 G 27245682.65 27245682.80 27245682.95 0.0483 0.0166

Uranus 69884-01-17 18:29 G 27245683.11 27245683.27 27245683.44 0.0142 0.0010

Uranus 69884-04-15 00:29 G 27245771.36 27245771.52 27245771.69 0.0142 0.0036

Mars 69884-07-04 01:55 G 27245851.46 27245851.58 27245851.71 0.1863 0.0611

Uranus 69884-07-12 06:29 G 27245859.62 27245859.77 27245859.92 0.0142 0.0062

Uranus 69884-10-08 12:29 G 27245947.90 27245948.02 27245948.16 0.0142 0.0089

Uranus 69885-01-04 18:29 G 27246036.19 27246036.27 27246036.38 0.0142 0.0116

Mars 69885-05-19 06:43 G 27246170.63 27246170.78 27246170.92 0.1659 0.0155

Earth 69886-08-09 11:03 G 27246617.84 27246617.96 27246618.08 0.2696 0.0218

Moon 69886-08-09 12:00 G 27246617.88 27246618.00 27246618.12 0.2694 0.0225 *

Saturn 69889-02-03 00:15 G 27247526.42 27247526.51 27247526.60 0.0282 0.0225

Earth 69889-02-06 08:39 G 27247529.75 27247529.86 27247529.96 0.2635 0.1645

Moon 69889-02-06 09:22 G 27247529.78 27247529.89 27247529.99 0.2630 0.1657 *

Saturn 69889-05-02 16:05 G 27247615.03 27247615.17 27247615.33 0.0283 0.0075

Saturn 69889-07-30 08:39 G 27247703.71 27247703.86 27247704.01 0.0283 0.0081

Saturn 69889-10-27 01:12 G 27247792.47 27247792.55 27247792.64 0.0283 0.0240

Venus 69889-10-27 19:55 G 27247793.23 27247793.33 27247793.43 0.3678 0.2155

Jupiter 69889-12-22 07:55 G 27247848.69 27247848.83 27247848.97 0.0545 0.0024

Mars 69893-11-24 07:55 G 27249281.78 27249281.83 27249281.89 0.1857 0.1658

Mars 69894-10-09 12:29 G 27249600.91 27249601.02 27249601.13 0.1663 0.1017

Venus 69895-05-13 18:15 G 27249817.16 27249817.26 27249817.36 0.3679 0.2338

Jupiter 69895-11-05 09:07 G 27249992.72 27249992.88 27249993.04 0.0483 0.0003

Earth 69899-08-12 07:27 G 27251368.71 27251368.81 27251368.91 0.2695 0.1514

Moon 69899-08-12 08:10 G 27251368.74 27251368.84 27251368.93 0.2690 0.1621 *

Jupiter 69901-10-11 09:36 G 27252158.77 27252158.90 27252159.04 0.0545 0.0182

Moon 69902-02-10 08:24 G 27252280.71 27252280.85 27252280.99 0.2629 0.0058

Earth 69902-02-10 08:24 G 27252280.71 27252280.85 27252280.98 0.2636 0.0127 *

Saturn 69903-09-12 15:36 G 27252860.05 27252860.15 27252860.25 0.0276 0.0208

Saturn 69903-12-10 06:29 G 27252948.62 27252948.77 27252948.92 0.0276 0.0065

Saturn 69904-03-07 21:07 G 27253037.23 27253037.38 27253037.52 0.0276 0.0075

Saturn 69904-06-04 11:17 G 27253125.88 27253125.97 27253126.07 0.0276 0.0212

Mars 69905-03-23 15:22 G 27253418.10 27253418.14 27253418.18 0.1873 0.1757

Mars 69906-02-05 18:29 G 27253737.24 27253737.27 27253737.30 0.1651 0.1602

Earth 69906-08-05 22:48 G 27253918.39 27253918.45 27253918.52 0.2698 0.2258

Moon 69906-08-05 23:17 G 27253918.40 27253918.47 27253918.54 0.2704 0.2207 *

Jupiter 69907-08-25 10:48 G 27254302.80 27254302.95 27254303.10 0.0484 0.0163

Jupiter 69913-07-30 10:48 G 27256468.86 27256468.95 27256469.05 0.0544 0.0400

Jupiter 69913-10-28 03:51 G 27256558.59 27256558.66 27256558.73 0.0545 0.0463

Mars 69914-08-13 20:24 G 27256848.23 27256848.35 27256848.47 0.1868 0.0602

Moon 69915-02-13 07:27 G 27257031.69 27257031.81 27257031.93 0.2633 0.1333

Earth 69915-02-13 08:24 G 27257031.74 27257031.85 27257031.97 0.2637 0.1464 *

Mars 69915-06-29 00:58 G 27257167.42 27257167.54 27257167.67 0.1655 0.0808

Saturn 69918-06-24 00:58 G 27258258.50 27258258.54 27258258.58 0.0282 0.0272

Saturn 69918-09-20 16:48 G 27258347.06 27258347.20 27258347.34 0.0282 0.0121

Saturn 69918-12-18 09:07 G 27258435.72 27258435.88 27258436.03 0.0283 0.0034

Saturn 69919-03-17 01:41 G 27258524.45 27258524.57 27258524.68 0.0283 0.0191

Jupiter 69919-06-13 12:58 G 27258612.93 27258613.04 27258613.16 0.0484 0.0321

Earth 69919-08-08 19:41 G 27258669.20 27258669.32 27258669.43 0.2697 0.0879

Moon 69919-08-08 20:24 G 27258669.24 27258669.35 27258669.47 0.2701 0.0856 *

Jupiter 69919-09-11 04:05 G 27258702.56 27258702.67 27258702.78 0.0483 0.0344

Mars 69924-01-04 02:10 G 27260278.47 27260278.59 27260278.72 0.1863 0.0477

Mars 69924-11-18 06:58 G 27260597.65 27260597.79 27260597.94 0.1659 0.0044

Jupiter 69925-08-16 04:19 G 27260868.55 27260868.68 27260868.81 0.0545 0.0231

Uranus 69925-11-11 00:15 G 27260955.49 27260955.51 27260955.55 0.0136 0.0132

Uranus 69926-02-07 04:19 G 27261043.61 27261043.68 27261043.78 0.0136 0.0112

Uranus 69926-05-06 08:39 G 27261131.76 27261131.86 27261131.98 0.0136 0.0091

Uranus 69926-08-02 12:58 G 27261219.92 27261220.04 27261220.18 0.0136 0.0070

Uranus 69926-10-29 17:17 G 27261308.08 27261308.22 27261308.36 0.0136 0.0049

Uranus 69927-01-25 21:36 G 27261396.25 27261396.40 27261396.54 0.0136 0.0028

Uranus 69927-04-24 01:41 G 27261484.42 27261484.57 27261484.72 0.0136 0.0008

Uranus 69927-07-21 05:46 G 27261572.59 27261572.74 27261572.89 0.0136 0.0013

Uranus 69927-10-17 09:51 G 27261660.77 27261660.91 27261661.05 0.0136 0.0033

Uranus 69928-01-13 13:41 G 27261748.94 27261749.07 27261749.21 0.0136 0.0054

Venus 69928-04-08 23:03 G 27261835.39 27261835.46 27261835.52 0.3694 0.2910

Uranus 69928-04-10 17:46 G 27261837.12 27261837.24 27261837.37 0.0136 0.0074

Uranus 69928-07-07 21:36 G 27261925.31 27261925.40 27261925.52 0.0136 0.0094

Uranus 69928-10-04 01:55 G 27262013.50 27262013.58 27262013.66 0.0136 0.0114

Pluto 69928-12-28 07:27 G 27262098.78 27262098.81 27262098.87 0.0064 0.0061

Uranus 69928-12-31 05:46 G 27262101.72 27262101.74 27262101.77 0.0136 0.0134

Pluto 69929-03-26 08:24 G 27262186.76 27262186.85 27262186.95 0.0065 0.0050

Pluto 69929-06-22 08:53 G 27262274.76 27262274.87 27262275.01 0.0065 0.0040

Pluto 69929-09-18 09:51 G 27262362.78 27262362.91 27262363.05 0.0065 0.0029

Pluto 69929-12-15 10:34 G 27262450.80 27262450.94 27262451.09 0.0065 0.0018

Pluto 69930-03-13 11:31 G 27262538.82 27262538.98 27262539.13 0.0065 0.0007

Pluto 69930-06-09 12:15 G 27262626.85 27262627.01 27262627.16 0.0065 0.0004

Pluto 69930-09-05 12:58 G 27262714.89 27262715.04 27262715.19 0.0065 0.0015

Pluto 69930-12-02 13:27 G 27262802.93 27262803.06 27262803.21 0.0065 0.0026

Pluto 69931-02-28 14:10 G 27262890.97 27262891.09 27262891.23 0.0065 0.0036

Jupiter 69931-04-01 15:36 G 27262923.12 27262923.15 27262923.17 0.0484 0.0474

Pluto 69931-05-27 14:53 G 27262979.03 27262979.12 27262979.23 0.0065 0.0047

Jupiter 69931-06-30 06:00 G 27263012.61 27263012.75 27263012.90 0.0483 0.0182

Pluto 69931-08-23 15:22 G 27263067.09 27263067.14 27263067.23 0.0065 0.0059

Earth 69932-08-10 16:19 G 27263420.06 27263420.18 27263420.30 0.2696 0.0458

Moon 69932-08-10 17:03 G 27263420.10 27263420.21 27263420.33 0.2694 0.0638 *

Saturn 69933-01-29 18:15 G 27263592.18 27263592.26 27263592.34 0.0276 0.0236

Saturn 69933-04-28 09:07 G 27263680.74 27263680.88 27263681.03 0.0276 0.0092

Mars 69933-05-26 08:10 G 27263708.77 27263708.84 27263708.91 0.1857 0.1532

Saturn 69933-07-25 23:46 G 27263769.34 27263769.49 27263769.64 0.0276 0.0049

Saturn 69933-10-22 14:10 G 27263857.98 27263858.09 27263858.20 0.0276 0.0186

Venus 69933-10-23 17:46 G 27263859.12 27263859.24 27263859.35 0.3693 0.0551

Mars 69934-04-10 12:58 G 27264027.92 27264028.04 27264028.16 0.1663 0.0883

Earth 69935-02-08 14:10 G 27264331.98 27264332.09 27264332.21 0.2635 0.1365

Moon 69935-02-08 14:39 G 27264331.99 27264332.11 27264332.24 0.2629 0.1224 *

Jupiter 69937-06-04 05:46 G 27265178.60 27265178.74 27265178.89 0.0545 0.0024

Jupiter 69943-04-18 07:55 G 27267322.67 27267322.83 27267322.99 0.0483 0.0017

Earth 69945-08-13 12:43 G 27268170.94 27268171.03 27268171.12 0.2695 0.1756

Moon 69945-08-13 13:12 G 27268170.95 27268171.05 27268171.14 0.2689 0.1731 *

Venus 69946-06-04 18:58 G 27268466.17 27268466.29 27268466.42 0.3678 0.0574

Saturn 69948-02-07 16:48 G 27269079.08 27269079.20 27269079.33 0.0282 0.0171

Moon 69948-02-11 13:55 G 27269082.94 27269083.08 27269083.22 0.2630 0.0104

Earth 69948-02-11 13:55 G 27269082.95 27269083.08 27269083.22 0.2636 0.0185 *

Saturn 69948-05-06 08:53 G 27269167.72 27269167.87 27269168.03 0.0283 0.0020

Saturn 69948-08-03 01:27 G 27269256.42 27269256.56 27269256.70 0.0283 0.0139

Jupiter 69949-03-23 07:41 G 27269488.69 27269488.82 27269488.96 0.0545 0.0185

Earth 69952-08-06 04:05 G 27270720.59 27270720.67 27270720.75 0.2698 0.1995

Moon 69952-08-06 04:34 G 27270720.61 27270720.69 27270720.77 0.2704 0.1950 *

Mars 69954-02-11 20:39 G 27271275.24 27271275.36 27271275.48 0.1868 0.0741

Mars 69954-12-28 01:12 G 27271594.43 27271594.55 27271594.67 0.1655 0.0923

Jupiter 69955-02-04 09:51 G 27271632.76 27271632.91 27271633.06 0.0483 0.0146

Neptune 69959-10-27 20:53 G 27273359.32 27273359.37 27273359.43 0.0089 0.0083

Neptune 69960-01-23 23:03 G 27273447.38 27273447.46 27273447.54 0.0089 0.0074

Neptune 69960-04-21 00:43 G 27273535.44 27273535.53 27273535.64 0.0089 0.0066

Neptune 69960-07-18 02:53 G 27273623.51 27273623.62 27273623.74 0.0089 0.0057

Neptune 69960-10-14 04:34 G 27273711.58 27273711.69 27273711.83 0.0089 0.0049

Jupiter 69961-01-09 09:36 G 27273798.80 27273798.90 27273799.00 0.0545 0.0391

Neptune 69961-01-10 06:43 G 27273799.65 27273799.78 27273799.92 0.0089 0.0039

Moon 69961-02-13 13:12 G 27273833.95 27273834.05 27273834.16 0.2633 0.1722

Earth 69961-02-13 14:10 G 27273833.99 27273834.09 27273834.19 0.2637 0.1776 *

Neptune 69961-04-08 08:39 G 27273887.73 27273887.86 27273888.01 0.0089 0.0031

Jupiter 69961-04-09 02:24 G 27273888.54 27273888.60 27273888.67 0.0545 0.0474

Neptune 69961-07-05 10:34 G 27273975.80 27273975.94 27273976.09 0.0089 0.0022

Neptune 69961-10-01 12:29 G 27274063.88 27274064.02 27274064.17 0.0089 0.0014

Neptune 69961-12-28 14:24 G 27274151.96 27274152.10 27274152.25 0.0089 0.0006

Neptune 69962-03-26 16:19 G 27274240.03 27274240.18 27274240.33 0.0089 0.0004

Neptune 69962-06-22 18:15 G 27274328.11 27274328.26 27274328.41 0.0089 0.0012

Saturn 69962-09-15 08:39 G 27274412.73 27274412.86 27274412.99 0.0276 0.0149

Neptune 69962-09-18 19:55 G 27274416.19 27274416.33 27274416.48 0.0089 0.0021

Saturn 69962-12-12 23:31 G 27274501.33 27274501.48 27274501.63 0.0276 0.0008

Neptune 69962-12-15 21:51 G 27274504.28 27274504.41 27274504.56 0.0089 0.0029

Saturn 69963-03-11 13:55 G 27274589.95 27274590.08 27274590.21 0.0276 0.0131

Neptune 69963-03-13 23:46 G 27274592.36 27274592.49 27274592.63 0.0089 0.0037

Saturn 69963-06-08 03:51 G 27274678.64 27274678.66 27274678.70 0.0276 0.0267

Neptune 69963-06-10 01:27 G 27274680.44 27274680.56 27274680.70 0.0089 0.0045

Mars 69963-07-05 02:10 G 27274705.46 27274705.59 27274705.72 0.1862 0.0363

Neptune 69963-09-06 03:22 G 27274768.53 27274768.64 27274768.76 0.0089 0.0053

Neptune 69963-12-03 05:03 G 27274856.61 27274856.71 27274856.83 0.0089 0.0062

Neptune 69964-02-29 06:58 G 27274944.71 27274944.79 27274944.89 0.0089 0.0070

Mars 69964-05-19 07:27 G 27275024.66 27275024.81 27275024.95 0.1659 0.0103

Neptune 69964-05-27 08:53 G 27275032.80 27275032.87 27275032.94 0.0089 0.0078

Neptune 69964-08-23 10:34 G 27275120.91 27275120.94 27275120.98 0.0089 0.0086

Earth 69965-08-09 00:58 G 27275471.42 27275471.54 27275471.66 0.2697 0.0628

Moon 69965-08-09 01:41 G 27275471.45 27275471.57 27275471.69 0.2699 0.0504 *

Uranus 69966-08-27 15:07 G 27275855.09 27275855.13 27275855.16 0.0142 0.0138

Jupiter 69966-11-23 11:46 G 27275942.87 27275942.99 27275943.11 0.0484 0.0309

Uranus 69966-11-23 20:39 G 27275943.27 27275943.36 27275943.46 0.0142 0.0113

Uranus 69967-02-20 02:10 G 27276031.48 27276031.59 27276031.73 0.0142 0.0088

Jupiter 69967-02-21 02:39 G 27276032.51 27276032.61 27276032.72 0.0483 0.0355

Uranus 69967-05-19 08:10 G 27276119.70 27276119.84 27276120.00 0.0142 0.0061

Uranus 69967-08-15 14:10 G 27276207.93 27276208.09 27276208.25 0.0142 0.0035

Uranus 69967-11-11 20:10 G 27276296.17 27276296.34 27276296.50 0.0142 0.0009

Earth 69968-02-06 20:24 G 27276383.32 27276383.35 27276383.38 0.2634 0.2564

Moon 69968-02-06 21:22 G 27276383.34 27276383.39 27276383.44 0.2632 0.2416 *

Uranus 69968-02-08 01:55 G 27276384.42 27276384.58 27276384.75 0.0142 0.0018

Uranus 69968-05-06 07:55 G 27276472.67 27276472.83 27276472.99 0.0142 0.0044

Uranus 69968-08-02 13:55 G 27276560.94 27276561.08 27276561.23 0.0142 0.0071

Uranus 69968-10-29 19:55 G 27276649.21 27276649.33 27276649.46 0.0142 0.0098

Uranus 69969-01-26 01:55 G 27276737.51 27276737.58 27276737.67 0.0142 0.0125

Mars 69972-11-24 08:10 G 27278135.76 27278135.84 27278135.92 0.1858 0.1419

Jupiter 69973-01-26 04:05 G 27278198.55 27278198.67 27278198.80 0.0545 0.0266

Mars 69973-10-09 13:27 G 27278454.93 27278455.06 27278455.18 0.1663 0.0751

Saturn 69977-06-26 17:03 G 27279811.12 27279811.21 27279811.30 0.0282 0.0221

Saturn 69977-09-23 08:53 G 27279899.73 27279899.87 27279900.03 0.0282 0.0071

Saturn 69977-12-21 01:27 G 27279988.41 27279988.56 27279988.71 0.0283 0.0086

Saturn 69978-03-19 18:00 G 27280077.18 27280077.25 27280077.33 0.0283 0.0245

Earth 69978-08-11 21:36 G 27280222.28 27280222.40 27280222.51 0.2696 0.0715

Moon 69978-08-11 22:19 G 27280222.32 27280222.43 27280222.55 0.2694 0.0729 *

Jupiter 69978-09-11 14:10 G 27280253.05 27280253.09 27280253.13 0.0484 0.0464

Jupiter 69978-12-10 04:48 G 27280342.55 27280342.70 27280342.84 0.0484 0.0193

Earth 69981-02-08 19:55 G 27281134.20 27281134.33 27281134.45 0.2635 0.1075

Moon 69981-02-08 20:24 G 27281134.23 27281134.35 27281134.47 0.2629 0.1100 *

Mars 69983-03-01 18:43 G 27281885.26 27281885.28 27281885.30 0.1667 0.1640

Venus 69984-11-13 21:07 G 27282508.28 27282508.38 27282508.49 0.3694 0.1621

Jupiter 69984-11-14 04:34 G 27282508.54 27282508.69 27282508.83 0.0545 0.0030

Venus 69990-05-30 15:51 G 27284532.06 27284532.16 27284532.26 0.3692 0.1765

Jupiter 69990-09-28 06:58 G 27284652.63 27284652.79 27284652.94 0.0484 0.0035

Earth 69991-08-14 17:46 G 27284973.16 27284973.24 27284973.32 0.2695 0.1995

Moon 69991-08-14 18:00 G 27284973.18 27284973.25 27284973.33 0.2688 0.2085 *

Saturn 69992-02-02 11:03 G 27285144.85 27285144.96 27285145.09 0.0276 0.0178

Saturn 69992-05-01 02:10 G 27285233.44 27285233.59 27285233.74 0.0276 0.0035

Saturn 69992-07-28 16:34 G 27285322.05 27285322.19 27285322.33 0.0276 0.0105

Saturn 69992-10-25 06:43 G 27285410.71 27285410.78 27285410.86 0.0276 0.0241

Mars 69993-08-12 20:53 G 27285702.25 27285702.37 27285702.48 0.1868 0.0869

Moon 69994-02-11 19:12 G 27285885.17 27285885.30 27285885.44 0.2630 0.0506

Earth 69994-02-11 19:41 G 27285885.19 27285885.32 27285885.46 0.2636 0.0472 *

Mars 69994-06-28 01:27 G 27286021.45 27286021.56 27286021.67 0.1655 0.1049

Jupiter 69996-09-02 05:46 G 27286818.61 27286818.74 27286818.88 0.0545 0.0187

Venus 69997-06-25 19:55 G 27287115.29 27287115.33 27287115.38 0.3677 0.3366

Earth 69998-08-07 09:22 G 27287522.80 27287522.89 27287522.98 0.2698 0.1733

Moon 69998-08-07 09:51 G 27287522.82 27287522.91 27287523.00 0.2704 0.1704 *

71ST MILLENNIUM CE

This is a list of transits of Mercury in the 71st millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Jupiter 70002-07-17 08:39 G 27288962.71 27288962.86 27288963.01 0.0484 0.0132

Mars 70003-01-03 02:24 G 27289132.47 27289132.60 27289132.72 0.1863 0.0241

Venus 70003-01-09 18:15 G 27289139.13 27289139.26 27289139.38 0.3678 0.1040

Mars 70003-11-18 07:41 G 27289451.68 27289451.82 27289451.97 0.1659 0.0231

Saturn 70006-11-13 17:31 G 27290543.19 27290543.23 27290543.28 0.0282 0.0266

Saturn 70007-02-10 09:22 G 27290631.75 27290631.89 27290632.03 0.0282 0.0117

Moon 70007-02-14 18:58 G 27290636.20 27290636.29 27290636.38 0.2633 0.1909

Earth 70007-02-14 19:55 G 27290636.25 27290636.33 27290636.42 0.2637 0.2079 *

Saturn 70007-05-10 01:41 G 27290720.41 27290720.57 27290720.72 0.0283 0.0037

Saturn 70007-08-06 18:00 G 27290809.14 27290809.25 27290809.37 0.0283 0.0195

Jupiter 70008-06-21 07:27 G 27291128.71 27291128.81 27291128.91 0.0545 0.0396

Jupiter 70008-09-19 00:29 G 27291218.45 27291218.52 27291218.59 0.0545 0.0471

Uranus 70009-12-01 07:27 G 27291656.76 27291656.81 27291656.87 0.0136 0.0126

Uranus 70010-02-27 11:46 G 27291744.90 27291744.99 27291745.09 0.0136 0.0105

Uranus 70010-05-26 16:05 G 27291833.05 27291833.17 27291833.29 0.0136 0.0084

Uranus 70010-08-22 20:10 G 27291921.21 27291921.34 27291921.48 0.0136 0.0063

Uranus 70010-11-19 00:15 G 27292009.38 27292009.51 27292009.66 0.0136 0.0043

Uranus 70011-02-15 04:34 G 27292097.54 27292097.69 27292097.84 0.0136 0.0022

Uranus 70011-05-14 08:39 G 27292185.71 27292185.86 27292186.01 0.0136 0.0003

Earth 70011-08-10 06:15 G 27292273.63 27292273.76 27292273.88 0.2697 0.0381

Moon 70011-08-10 06:58 G 27292273.67 27292273.79 27292273.92 0.2697 0.0291 *

Uranus 70011-08-10 12:43 G 27292273.89 27292274.03 27292274.18 0.0136 0.0019 *

Uranus 70011-11-06 16:48 G 27292362.06 27292362.20 27292362.34 0.0136 0.0039

Uranus 70012-02-02 20:53 G 27292450.24 27292450.37 27292450.50 0.0136 0.0060

Uranus 70012-05-01 00:58 G 27292538.42 27292538.54 27292538.66 0.0136 0.0080

Mars 70012-05-25 08:10 G 27292562.75 27292562.84 27292562.93 0.1857 0.1289

Uranus 70012-07-28 04:48 G 27292626.61 27292626.70 27292626.80 0.0136 0.0100

Uranus 70012-10-24 08:39 G 27292714.80 27292714.86 27292714.94 0.0136 0.0120

Mars 70013-04-09 13:41 G 27292881.93 27292882.07 27292882.20 0.1663 0.0627

Earth 70014-02-07 01:55 G 27293185.52 27293185.58 27293185.65 0.2634 0.2287

Moon 70014-02-07 02:53 G 27293185.55 27293185.62 27293185.69 0.2630 0.2212 *

Jupiter 70014-05-05 10:48 G 27293272.83 27293272.95 27293273.08 0.0484 0.0291

Jupiter 70014-08-03 01:55 G 27293362.48 27293362.58 27293362.68 0.0483 0.0373

Pluto 70017-09-17 16:48 G 27294504.13 27294504.20 27294504.27 0.0080 0.0071

Pluto 70017-12-14 18:29 G 27294592.15 27294592.27 27294592.40 0.0079 0.0050

Pluto 70018-03-12 20:24 G 27294680.20 27294680.35 27294680.50 0.0079 0.0029

Pluto 70018-06-08 22:05 G 27294768.26 27294768.42 27294768.59 0.0079 0.0008

Pluto 70018-09-05 00:00 G 27294856.34 27294856.50 27294856.66 0.0079 0.0013

Pluto 70018-12-02 01:27 G 27294944.43 27294944.56 27294944.72 0.0079 0.0035

Pluto 70019-02-28 03:36 G 27295032.53 27295032.65 27295032.76 0.0079 0.0055

Pluto 70019-05-27 05:17 G 27295120.68 27295120.72 27295120.76 0.0079 0.0076

Jupiter 70020-07-08 02:39 G 27295528.49 27295528.61 27295528.74 0.0545 0.0275

Saturn 70021-06-21 10:34 G 27295876.86 27295876.94 27295877.02 0.0276 0.0235

Saturn 70021-09-18 01:27 G 27295965.42 27295965.56 27295965.71 0.0276 0.0092

Saturn 70021-12-15 16:19 G 27296054.03 27296054.18 27296054.33 0.0276 0.0049

Saturn 70022-03-14 06:29 G 27296142.67 27296142.77 27296142.88 0.0276 0.0186

Mars 70022-08-30 19:12 G 27296312.24 27296312.30 27296312.36 0.1668 0.1502

Earth 70024-08-12 02:39 G 27297024.50 27297024.61 27297024.72 0.2696 0.0955

Moon 70024-08-12 03:22 G 27297024.53 27297024.64 27297024.75 0.2693 0.1093 *

Jupiter 70026-02-21 12:58 G 27297582.98 27297583.04 27297583.09 0.0484 0.0452

Jupiter 70026-05-22 03:22 G 27297672.50 27297672.64 27297672.79 0.0483 0.0204

Earth 70027-02-10 01:27 G 27297936.43 27297936.56 27297936.69 0.2635 0.0794

Moon 70027-02-10 01:55 G 27297936.44 27297936.58 27297936.71 0.2629 0.0688 *

Jupiter 70032-04-26 04:19 G 27299838.54 27299838.68 27299838.82 0.0545 0.0064

Mars 70033-02-10 20:53 G 27300129.26 27300129.37 27300129.48 0.1868 0.0984

Mars 70033-12-27 01:55 G 27300448.48 27300448.58 27300448.68 0.1655 0.1178

Saturn 70036-06-29 09:07 G 27301363.76 27301363.88 27301364.00 0.0282 0.0171

Saturn 70036-09-26 01:12 G 27301452.39 27301452.55 27301452.71 0.0282 0.0019

Saturn 70036-12-23 17:31 G 27301541.10 27301541.23 27301541.37 0.0283 0.0138

Moon 70037-08-14 23:03 G 27301775.39 27301775.46 27301775.53 0.2688 0.2175

Earth 70037-08-14 23:03 G 27301775.39 27301775.46 27301775.52 0.2695 0.2239 *

Jupiter 70038-03-10 05:31 G 27301982.57 27301982.73 27301982.89 0.0484 0.0044

Moon 70040-02-13 00:43 G 27302687.40 27302687.53 27302687.67 0.2630 0.0626

Earth 70040-02-13 01:27 G 27302687.43 27302687.56 27302687.69 0.2636 0.0772 *

Venus 70041-06-20 19:27 G 27303181.19 27303181.31 27303181.42 0.3693 0.0356

Mars 70042-07-04 02:24 G 27303559.48 27303559.60 27303559.73 0.1863 0.0116

Neptune 70043-01-02 01:41 G 27303741.52 27303741.57 27303741.65 0.0088 0.0080

Neptune 70043-03-31 04:05 G 27303829.59 27303829.67 27303829.78 0.0088 0.0071

Mars 70043-05-19 08:10 G 27303878.70 27303878.84 27303878.98 0.1659 0.0353

Neptune 70043-06-27 06:29 G 27303917.66 27303917.77 27303917.89 0.0088 0.0062

Neptune 70043-09-23 08:39 G 27304005.75 27304005.86 27304006.01 0.0088 0.0054

Neptune 70043-12-20 11:03 G 27304093.83 27304093.96 27304094.12 0.0088 0.0045

Jupiter 70044-02-13 04:34 G 27304148.55 27304148.69 27304148.83 0.0544 0.0174

Neptune 70044-03-17 13:41 G 27304181.92 27304182.07 27304182.23 0.0088 0.0036

Neptune 70044-06-13 16:05 G 27304270.01 27304270.17 27304270.33 0.0088 0.0027

Earth 70044-08-07 14:39 G 27304325.00 27304325.11 27304325.21 0.2698 0.1480

Moon 70044-08-07 15:07 G 27304325.03 27304325.13 27304325.24 0.2703 0.1370 *

Neptune 70044-09-09 18:29 G 27304358.11 27304358.27 27304358.44 0.0088 0.0018

Neptune 70044-12-06 20:53 G 27304446.21 27304446.37 27304446.54 0.0088 0.0009

Neptune 70045-03-04 23:17 G 27304534.31 27304534.47 27304534.64 0.0088 0.0002

Neptune 70045-06-01 01:41 G 27304622.41 27304622.57 27304622.74 0.0088 0.0009

Neptune 70045-08-28 04:05 G 27304710.51 27304710.67 27304710.84 0.0088 0.0018

Neptune 70045-11-24 06:29 G 27304798.62 27304798.77 27304798.94 0.0088 0.0027

Neptune 70046-02-20 08:53 G 27304886.73 27304886.87 27304887.04 0.0088 0.0036

Neptune 70046-05-19 11:17 G 27304974.84 27304974.97 27304975.13 0.0088 0.0045

Neptune 70046-08-15 13:55 G 27305062.96 27305063.08 27305063.22 0.0088 0.0054

Neptune 70046-11-11 16:19 G 27305151.08 27305151.18 27305151.31 0.0088 0.0063

Venus 70047-01-04 13:55 G 27305205.02 27305205.08 27305205.15 0.3692 0.3003

Neptune 70047-02-07 18:58 G 27305239.20 27305239.29 27305239.39 0.0088 0.0072

Neptune 70047-05-06 21:07 G 27305327.34 27305327.38 27305327.46 0.0088 0.0082

Jupiter 70049-12-27 07:41 G 27306292.67 27306292.82 27306292.97 0.0484 0.0115

Uranus 70050-09-16 22:19 G 27306556.37 27306556.43 27306556.50 0.0143 0.0130

Saturn 70050-11-08 12:58 G 27306609.00 27306609.04 27306609.08 0.0277 0.0265

Uranus 70050-12-14 03:51 G 27306644.56 27306644.66 27306644.78 0.0142 0.0105

Saturn 70051-02-05 04:05 G 27306697.53 27306697.67 27306697.81 0.0277 0.0120

Uranus 70051-03-12 09:51 G 27306732.77 27306732.91 27306733.05 0.0142 0.0079

Saturn 70051-05-04 18:43 G 27306786.13 27306786.28 27306786.44 0.0276 0.0022

Uranus 70051-06-08 15:22 G 27306821.00 27306821.14 27306821.30 0.0142 0.0054

Saturn 70051-08-01 09:07 G 27306874.76 27306874.88 27306875.01 0.0276 0.0160

Uranus 70051-09-04 21:22 G 27306909.23 27306909.39 27306909.56 0.0142 0.0027

Mars 70051-11-24 08:10 G 27306989.75 27306989.84 27306989.94 0.1857 0.1171

Uranus 70051-12-02 03:22 G 27306997.47 27306997.64 27306997.81 0.0142 0.0001

Uranus 70052-02-28 09:22 G 27307085.72 27307085.89 27307086.05 0.0142 0.0026

Uranus 70052-05-26 15:22 G 27307173.98 27307174.14 27307174.29 0.0142 0.0052

Uranus 70052-08-22 21:07 G 27307262.25 27307262.38 27307262.53 0.0142 0.0079

Mars 70052-10-08 13:55 G 27307308.94 27307309.08 27307309.22 0.1663 0.0495

Uranus 70052-11-19 03:07 G 27307350.53 27307350.63 27307350.75 0.0142 0.0106

Moon 70053-02-15 00:43 G 27307438.47 27307438.53 27307438.59 0.2635 0.2355

Earth 70053-02-15 01:41 G 27307438.52 27307438.57 27307438.63 0.2637 0.2386 *

Uranus 70053-02-15 09:22 G 27307438.84 27307438.89 27307438.95 0.0142 0.0133

Venus 70054-01-30 19:12 G 27307788.19 27307788.30 27307788.41 0.3677 0.1794

Jupiter 70055-12-02 05:31 G 27308458.64 27308458.73 27308458.83 0.0544 0.0395

Jupiter 70056-02-29 22:48 G 27308548.38 27308548.45 27308548.52 0.0545 0.0470

Earth 70057-08-10 11:17 G 27309075.85 27309075.97 27309076.09 0.2697 0.0128

Moon 70057-08-10 12:15 G 27309075.89 27309076.01 27309076.13 0.2697 0.0064 *

Venus 70059-08-16 17:17 G 27309812.13 27309812.22 27309812.31 0.3678 0.2661

Earth 70060-02-08 07:27 G 27309987.73 27309987.81 27309987.90 0.2634 0.2011

Moon 70060-02-08 08:24 G 27309987.76 27309987.85 27309987.94 0.2630 0.1928 *

Jupiter 70061-10-15 09:36 G 27310602.78 27310602.90 27310603.03 0.0484 0.0278

Jupiter 70062-01-13 00:43 G 27310692.43 27310692.53 27310692.62 0.0483 0.0387

Mars 70062-02-28 19:27 G 27310739.23 27310739.31 27310739.39 0.1668 0.1375

Saturn 70065-11-16 09:51 G 27312095.82 27312095.91 27312096.02 0.0282 0.0214

Saturn 70066-02-13 01:55 G 27312184.43 27312184.58 27312184.73 0.0282 0.0063

Saturn 70066-05-12 18:15 G 27312273.11 27312273.26 27312273.41 0.0283 0.0092

Saturn 70066-08-09 10:48 G 27312361.88 27312361.95 27312362.02 0.0283 0.0250

Jupiter 70067-12-19 00:43 G 27312858.41 27312858.53 27312858.65 0.0545 0.0270

Earth 70070-08-13 07:55 G 27313826.72 27313826.83 27313826.93 0.2696 0.1205

Moon 70070-08-13 08:24 G 27313826.75 27313826.85 27313826.96 0.2691 0.1238 *

Mars 70072-08-11 20:53 G 27314556.27 27314556.37 27314556.48 0.1868 0.1114

Earth 70073-02-10 07:12 G 27314738.66 27314738.80 27314738.93 0.2635 0.0504

Moon 70073-02-10 07:12 G 27314738.67 27314738.80 27314738.94 0.2629 0.0526 *

Mars 70073-06-27 02:10 G 27314875.50 27314875.59 27314875.68 0.1655 0.1291

Jupiter 70073-08-03 12:00 G 27314912.93 27314913.00 27314913.07 0.0484 0.0434

Jupiter 70073-11-01 02:24 G 27315002.46 27315002.60 27315002.75 0.0483 0.0223

Moon 70077-08-05 23:03 G 27316376.41 27316376.46 27316376.50 0.2706 0.2530

Earth 70077-08-05 22:48 G 27316376.42 27316376.45 27316376.48 0.2699 0.2613 *

Jupiter 70079-10-07 02:53 G 27317168.48 27317168.62 27317168.76 0.0545 0.0071

Saturn 70080-06-24 03:36 G 27317429.53 27317429.65 27317429.77 0.0276 0.0177

Saturn 70080-09-20 18:29 G 27317518.12 27317518.27 27317518.42 0.0276 0.0035

Saturn 70080-12-18 08:53 G 27317606.74 27317606.87 27317607.02 0.0276 0.0105

Saturn 70081-03-16 23:17 G 27317695.40 27317695.47 27317695.54 0.0276 0.0241

Mars 70082-01-02 02:24 G 27317986.47 27317986.60 27317986.73 0.1862 0.0015

Mars 70082-11-17 08:24 G 27318305.72 27318305.85 27318305.99 0.1659 0.0483

Earth 70083-08-16 04:05 G 27318577.63 27318577.67 27318577.71 0.2695 0.2476

Moon 70083-08-16 04:05 G 27318577.64 27318577.67 27318577.71 0.2688 0.2545 *

Jupiter 70085-08-20 04:05 G 27319312.52 27319312.67 27319312.83 0.0484 0.0057

Moon 70086-02-13 06:29 G 27319489.64 27319489.77 27319489.89 0.2630 0.1075

Earth 70086-02-13 07:12 G 27319489.67 27319489.80 27319489.92 0.2636 0.1067 *

Earth 70090-08-08 19:41 G 27321127.22 27321127.32 27321127.43 0.2698 0.1219

Moon 70090-08-08 20:39 G 27321127.25 27321127.36 27321127.47 0.2701 0.1201 *

Mars 70091-05-25 08:24 G 27321416.74 27321416.85 27321416.95 0.1857 0.1048

Jupiter 70091-07-26 04:19 G 27321478.54 27321478.68 27321478.82 0.0545 0.0141

Mars 70092-04-08 14:24 G 27321735.96 27321736.10 27321736.24 0.1663 0.0363

Venus 70092-07-11 22:48 G 27321830.37 27321830.45 27321830.54 0.3694 0.2531

Uranus 70093-12-21 14:10 G 27322358.04 27322358.09 27322358.17 0.0136 0.0121

Uranus 70094-03-19 18:29 G 27322446.18 27322446.27 27322446.38 0.0136 0.0100

Uranus 70094-06-15 22:48 G 27322534.34 27322534.45 27322534.58 0.0136 0.0079

Uranus 70094-09-12 03:07 G 27322622.50 27322622.63 27322622.77 0.0136 0.0058

Uranus 70094-12-09 07:27 G 27322710.66 27322710.81 27322710.95 0.0136 0.0037

Uranus 70095-03-07 11:31 G 27322798.83 27322798.98 27322799.13 0.0136 0.0017

Saturn 70095-04-05 09:22 G 27322827.85 27322827.89 27322827.94 0.0282 0.0270

Uranus 70095-06-03 15:36 G 27322887.00 27322887.15 27322887.30 0.0136 0.0004

Saturn 70095-07-03 01:12 G 27322916.41 27322916.55 27322916.69 0.0282 0.0121

Uranus 70095-08-30 19:41 G 27322975.18 27322975.32 27322975.47 0.0136 0.0024

Saturn 70095-09-29 17:31 G 27323005.07 27323005.23 27323005.38 0.0282 0.0033

Uranus 70095-11-26 23:46 G 27323063.35 27323063.49 27323063.63 0.0136 0.0045

Saturn 70095-12-27 09:51 G 27323093.80 27323093.91 27323094.03 0.0283 0.0191

Uranus 70096-02-23 03:36 G 27323151.53 27323151.65 27323151.79 0.0136 0.0065

Uranus 70096-05-21 07:41 G 27323239.71 27323239.82 27323239.94 0.0136 0.0085

Uranus 70096-08-17 11:46 G 27323327.90 27323327.99 27323328.08 0.0136 0.0105

Uranus 70096-11-13 15:36 G 27323416.10 27323416.15 27323416.21 0.0136 0.0125

Jupiter 70097-06-08 06:29 G 27323622.61 27323622.77 27323622.92 0.0484 0.0104

Venus 70098-01-25 17:31 G 27323854.12 27323854.23 27323854.35 0.3693 0.0924

Moon 70099-02-16 06:15 G 27324240.72 27324240.76 27324240.80 0.2637 0.2483

Mars 70101-08-30 19:55 G 27325166.23 27325166.33 27325166.43 0.1668 0.1242

Jupiter 70103-05-15 04:34 G 27325788.59 27325788.69 27325788.79 0.0544 0.0381

Earth 70103-08-12 16:34 G 27325878.07 27325878.19 27325878.31 0.2697 0.0141

Moon 70103-08-12 17:31 G 27325878.11 27325878.23 27325878.35 0.2697 0.0265 *

Jupiter 70103-08-12 21:36 G 27325878.33 27325878.40 27325878.46 0.0545 0.0483 *

Earth 70106-02-09 12:58 G 27326789.94 27326790.04 27326790.15 0.2634 0.1733

Moon 70106-02-09 13:55 G 27326789.97 27326790.08 27326790.19 0.2630 0.1623 *

Jupiter 70109-03-28 08:39 G 27327932.73 27327932.86 27327932.99 0.0484 0.0262

Jupiter 70109-06-25 23:31 G 27328022.40 27328022.48 27328022.57 0.0484 0.0405

Saturn 70109-11-12 05:46 G 27328161.64 27328161.74 27328161.84 0.0277 0.0208

Saturn 70110-02-08 20:53 G 27328250.22 27328250.37 27328250.52 0.0277 0.0064

Saturn 70110-05-08 11:31 G 27328338.83 27328338.98 27328339.12 0.0277 0.0077

Saturn 70110-08-05 01:55 G 27328427.48 27328427.58 27328427.67 0.0276 0.0214

Venus 70110-09-07 18:15 G 27328461.13 27328461.26 27328461.39 0.3677 0.0210

Mars 70112-02-11 21:07 G 27328983.28 27328983.38 27328983.48 0.1868 0.1245

Mars 70112-12-27 02:39 G 27329302.53 27329302.61 27329302.68 0.1655 0.1415

Jupiter 70115-05-31 23:03 G 27330188.34 27330188.46 27330188.58 0.0545 0.0271

Earth 70116-08-14 12:58 G 27330628.94 27330629.04 27330629.14 0.2696 0.1447

Moon 70116-08-14 13:27 G 27330628.96 27330629.06 27330629.16 0.2690 0.1501 *

Moon 70119-02-12 12:29 G 27331540.89 27331541.02 27331541.16 0.2629 0.0235

Earth 70119-02-12 12:43 G 27331540.89 27331541.03 27331541.17 0.2636 0.0215 *

Jupiter 70121-01-14 10:48 G 27332242.87 27332242.95 27332243.02 0.0484 0.0422

Jupiter 70121-04-14 01:12 G 27332332.41 27332332.55 27332332.69 0.0483 0.0236

Mars 70121-07-04 02:39 G 27332413.48 27332413.61 27332413.74 0.1863 0.0139

Mars 70122-05-19 08:53 G 27332732.73 27332732.87 27332733.00 0.1659 0.0605

Earth 70123-08-08 04:05 G 27333178.61 27333178.67 27333178.73 0.2698 0.2348

Moon 70123-08-08 04:19 G 27333178.63 27333178.68 27333178.73 0.2705 0.2408 *

Neptune 70124-04-27 18:15 G 27333442.23 27333442.26 27333442.31 0.0090 0.0086

Neptune 70124-07-24 20:10 G 27333530.28 27333530.34 27333530.42 0.0089 0.0078

Neptune 70124-10-20 22:19 G 27333618.34 27333618.43 27333618.53 0.0089 0.0069

Saturn 70124-11-20 02:39 G 27333648.48 27333648.61 27333648.74 0.0282 0.0159

Neptune 70125-01-17 00:00 G 27333706.41 27333706.50 27333706.63 0.0089 0.0061

Saturn 70125-02-16 18:43 G 27333737.12 27333737.28 27333737.43 0.0282 0.0011

Neptune 70125-04-15 02:10 G 27333794.47 27333794.59 27333794.72 0.0089 0.0052

Saturn 70125-05-16 11:03 G 27333825.82 27333825.96 27333826.09 0.0282 0.0148

Neptune 70125-07-12 04:05 G 27333882.55 27333882.67 27333882.81 0.0089 0.0043

Neptune 70125-10-08 06:00 G 27333970.62 27333970.75 27333970.90 0.0089 0.0035

Neptune 70126-01-04 08:10 G 27334058.69 27334058.84 27334058.98 0.0089 0.0026

Neptune 70126-04-02 10:05 G 27334146.77 27334146.92 27334147.07 0.0089 0.0017

Neptune 70126-06-29 12:00 G 27334234.85 27334235.00 27334235.15 0.0089 0.0009

Neptune 70126-09-25 13:55 G 27334322.93 27334323.08 27334323.23 0.0089 0.0002

Neptune 70126-12-22 15:36 G 27334411.01 27334411.15 27334411.30 0.0089 0.0009

Jupiter 70127-03-20 00:43 G 27334498.39 27334498.53 27334498.68 0.0545 0.0067

Neptune 70127-03-20 17:31 G 27334499.09 27334499.23 27334499.38 0.0089 0.0017

Neptune 70127-06-16 19:27 G 27334587.17 27334587.31 27334587.45 0.0089 0.0025

Neptune 70127-09-12 21:07 G 27334675.25 27334675.38 27334675.53 0.0089 0.0034

Neptune 70127-12-09 23:03 G 27334763.33 27334763.46 27334763.60 0.0089 0.0042

Neptune 70128-03-07 00:58 G 27334851.42 27334851.54 27334851.66 0.0089 0.0050

Neptune 70128-06-03 02:39 G 27334939.51 27334939.61 27334939.73 0.0089 0.0058

Neptune 70128-08-30 04:19 G 27335027.60 27335027.68 27335027.79 0.0089 0.0067

Neptune 70128-11-26 06:15 G 27335115.69 27335115.76 27335115.85 0.0089 0.0075

Neptune 70129-02-22 08:10 G 27335203.79 27335203.84 27335203.90 0.0089 0.0083

Moon 70129-08-17 09:07 G 27335379.87 27335379.88 27335379.90 0.2688 0.2663

Mars 70130-11-24 08:24 G 27335843.74 27335843.85 27335843.96 0.1857 0.0926

Mars 70131-10-09 14:39 G 27336162.97 27336163.11 27336163.26 0.1663 0.0241

Moon 70132-02-15 12:00 G 27336291.88 27336292.00 27336292.13 0.2631 0.1228

Earth 70132-02-15 12:43 G 27336291.92 27336292.03 27336292.15 0.2637 0.1368 *

Jupiter 70133-01-31 03:07 G 27336642.48 27336642.63 27336642.79 0.0483 0.0074

Uranus 70134-10-08 05:31 G 27337257.66 27337257.73 27337257.82 0.0143 0.0122

Uranus 70135-01-04 11:17 G 27337345.86 27337345.97 27337346.10 0.0142 0.0096

Uranus 70135-04-02 17:03 G 27337434.08 27337434.21 27337434.36 0.0142 0.0071

Uranus 70135-06-29 23:03 G 27337522.30 27337522.46 27337522.62 0.0142 0.0044

Uranus 70135-09-26 04:48 G 27337610.54 27337610.70 27337610.87 0.0142 0.0018

Uranus 70135-12-23 10:48 G 27337698.78 27337698.95 27337699.12 0.0142 0.0008

Uranus 70136-03-20 16:48 G 27337787.03 27337787.20 27337787.36 0.0142 0.0035

Uranus 70136-06-16 22:34 G 27337875.29 27337875.44 27337875.60 0.0142 0.0061

Earth 70136-08-10 00:58 G 27337929.43 27337929.54 27337929.66 0.2697 0.0963

Moon 70136-08-10 01:55 G 27337929.46 27337929.58 27337929.69 0.2700 0.0790 *

Uranus 70136-09-13 04:34 G 27337963.57 27337963.69 27337963.83 0.0142 0.0088

Uranus 70136-12-10 10:34 G 27338051.85 27338051.94 27338052.05 0.0142 0.0115

Uranus 70137-03-08 16:48 G 27338140.20 27338140.20 27338140.21 0.0142 0.0141

Jupiter 70139-01-06 02:39 G 27338808.47 27338808.61 27338808.75 0.0545 0.0137

Saturn 70139-04-01 05:17 G 27338893.68 27338893.72 27338893.77 0.0276 0.0264

Saturn 70139-06-28 20:24 G 27338982.22 27338982.35 27338982.49 0.0276 0.0120

Saturn 70139-09-25 11:17 G 27339070.82 27339070.97 27339071.12 0.0276 0.0022

Saturn 70139-12-23 01:41 G 27339159.45 27339159.57 27339159.70 0.0276 0.0160

Mars 70141-02-28 20:24 G 27339593.24 27339593.35 27339593.46 0.1668 0.1102

Jupiter 70144-11-19 05:03 G 27340952.55 27340952.71 27340952.86 0.0484 0.0093

Venus 70149-02-16 21:07 G 27342503.27 27342503.38 27342503.49 0.3694 0.1231

Earth 70149-08-12 21:51 G 27342680.29 27342680.41 27342680.53 0.2697 0.0397

Moon 70149-08-12 22:34 G 27342680.32 27342680.44 27342680.56 0.2695 0.0437 *

Jupiter 70150-10-25 04:05 G 27343118.56 27343118.67 27343118.78 0.0545 0.0350

Jupiter 70151-01-22 21:07 G 27343208.34 27343208.38 27343208.43 0.0545 0.0514

Mars 70151-08-12 21:07 G 27343410.29 27343410.38 27343410.47 0.1868 0.1354

Earth 70152-02-10 18:43 G 27343592.17 27343592.28 27343592.39 0.2635 0.1444

Moon 70152-02-10 19:27 G 27343592.20 27343592.31 27343592.42 0.2630 0.1411 *

Mars 70152-06-27 02:53 G 27343729.57 27343729.62 27343729.67 0.1655 0.1540

Saturn 70154-04-09 01:55 G 27344380.48 27344380.58 27344380.68 0.0282 0.0217

Saturn 70154-07-06 17:46 G 27344469.09 27344469.24 27344469.39 0.0282 0.0067

Venus 70154-09-02 15:51 G 27344527.07 27344527.16 27344527.25 0.3693 0.2174

Saturn 70154-10-03 10:05 G 27344557.77 27344557.92 27344558.07 0.0282 0.0088

Saturn 70154-12-31 02:39 G 27344646.54 27344646.61 27344646.69 0.0282 0.0246

Jupiter 70156-09-07 07:12 G 27345262.67 27345262.80 27345262.94 0.0484 0.0251

Jupiter 70156-12-05 22:19 G 27345352.35 27345352.43 27345352.51 0.0483 0.0416

Mars 70161-01-02 02:53 G 27346840.49 27346840.62 27346840.74 0.1863 0.0272

Venus 70161-09-28 19:12 G 27347110.23 27347110.30 27347110.38 0.3677 0.2979

Mars 70161-11-17 09:07 G 27347159.75 27347159.88 27347160.01 0.1659 0.0728

Earth 70162-08-15 18:15 G 27347431.16 27347431.26 27347431.35 0.2696 0.1694

Moon 70162-08-15 18:43 G 27347431.18 27347431.28 27347431.37 0.2689 0.1751 *

Jupiter 70162-11-10 21:51 G 27347518.29 27347518.41 27347518.53 0.0545 0.0285

Moon 70165-02-12 18:15 G 27348343.12 27348343.26 27348343.40 0.2629 0.0087

Earth 70165-02-12 18:29 G 27348343.13 27348343.27 27348343.40 0.2636 0.0095 *

Venus 70167-04-14 17:17 G 27349134.10 27349134.22 27349134.34 0.3678 0.1385

Jupiter 70168-06-26 09:36 G 27349572.82 27349572.90 27349572.98 0.0484 0.0409

Jupiter 70168-09-24 00:00 G 27349662.37 27349662.50 27349662.64 0.0484 0.0251

Saturn 70168-11-14 22:34 G 27349714.32 27349714.44 27349714.57 0.0277 0.0151

Saturn 70169-02-11 13:41 G 27349802.91 27349803.07 27349803.22 0.0277 0.0009

Saturn 70169-05-11 04:19 G 27349891.54 27349891.68 27349891.81 0.0277 0.0132

Saturn 70169-08-07 18:29 G 27349980.24 27349980.27 27349980.30 0.0277 0.0268

Earth 70169-08-08 09:22 G 27349980.81 27349980.89 27349980.97 0.2698 0.2084

Moon 70169-08-08 09:51 G 27349980.82 27349980.91 27349980.99 0.2704 0.1988 *

Mars 70170-05-25 08:39 G 27350270.74 27350270.86 27350270.97 0.1857 0.0803

Mars 70171-04-09 15:07 G 27350589.99 27350590.13 27350590.27 0.1663 0.0107

Jupiter 70174-08-29 23:03 G 27351828.32 27351828.46 27351828.60 0.0545 0.0069

Pluto 70175-11-11 18:58 G 27352267.24 27352267.29 27352267.39 0.0065 0.0056

Pluto 70176-02-07 19:55 G 27352355.23 27352355.33 27352355.45 0.0065 0.0045

Pluto 70176-05-05 20:53 G 27352443.25 27352443.37 27352443.51 0.0065 0.0034

Pluto 70176-08-01 21:36 G 27352531.26 27352531.40 27352531.55 0.0065 0.0023

Pluto 70176-10-28 22:34 G 27352619.29 27352619.44 27352619.59 0.0065 0.0012

Pluto 70177-01-24 23:17 G 27352707.32 27352707.47 27352707.62 0.0065 0.0002

Pluto 70177-04-23 00:00 G 27352795.35 27352795.50 27352795.65 0.0065 0.0009

Pluto 70177-07-20 00:43 G 27352883.39 27352883.53 27352883.68 0.0065 0.0020

Uranus 70177-10-15 17:17 G 27352971.21 27352971.22 27352971.25 0.0136 0.0134

Pluto 70177-10-16 01:12 G 27352971.43 27352971.55 27352971.70 0.0065 0.0032

Uranus 70178-01-11 21:36 G 27353059.33 27353059.40 27353059.49 0.0136 0.0113

Pluto 70178-01-12 01:55 G 27353059.48 27353059.58 27353059.71 0.0065 0.0042 *

Moon 70178-02-15 17:31 G 27353094.12 27353094.23 27353094.34 0.2633 0.1601

Earth 70178-02-15 18:29 G 27353094.16 27353094.27 27353094.37 0.2637 0.1663 *

Uranus 70178-04-10 01:55 G 27353147.48 27353147.58 27353147.69 0.0136 0.0092

Pluto 70178-04-10 02:39 G 27353147.54 27353147.61 27353147.71 0.0065 0.0053 *

Pluto 70178-07-07 03:07 G 27353235.63 27353235.63 27353235.68 0.0066 0.0065

Uranus 70178-07-07 06:00 G 27353235.63 27353235.75 27353235.89 0.0136 0.0072 *

Uranus 70178-10-03 10:19 G 27353323.80 27353323.93 27353324.07 0.0136 0.0051

Uranus 70178-12-30 14:39 G 27353411.96 27353412.11 27353412.25 0.0136 0.0030

Uranus 70179-03-28 18:43 G 27353500.13 27353500.28 27353500.43 0.0136 0.0010

Uranus 70179-06-24 22:48 G 27353588.31 27353588.45 27353588.60 0.0136 0.0011

Uranus 70179-09-21 02:53 G 27353676.48 27353676.62 27353676.77 0.0136 0.0031

Mars 70179-10-15 14:39 G 27353701.09 27353701.11 27353701.13 0.1851 0.1823

Uranus 70179-12-18 06:58 G 27353764.66 27353764.79 27353764.93 0.0136 0.0051

Uranus 70180-03-15 11:03 G 27353852.84 27353852.96 27353853.08 0.0136 0.0071

Uranus 70180-06-11 15:07 G 27353941.02 27353941.13 27353941.23 0.0136 0.0092

Jupiter 70180-07-13 01:55 G 27353972.42 27353972.58 27353972.73 0.0484 0.0084

Mars 70180-08-29 20:39 G 27354020.24 27354020.36 27354020.48 0.1668 0.0980

Uranus 70180-09-07 18:58 G 27354029.21 27354029.29 27354029.38 0.0136 0.0111

Uranus 70180-12-04 22:48 G 27354117.42 27354117.45 27354117.50 0.0136 0.0131

Earth 70182-08-11 06:15 G 27354731.64 27354731.76 27354731.88 0.2697 0.0701

Moon 70182-08-11 07:12 G 27354731.68 27354731.80 27354731.92 0.2700 0.0689 *

Saturn 70183-08-27 03:36 G 27355112.59 27355112.65 27355112.72 0.0282 0.0251

Saturn 70183-11-23 19:27 G 27355201.17 27355201.31 27355201.46 0.0282 0.0102

Saturn 70184-02-20 11:31 G 27355289.83 27355289.98 27355290.14 0.0282 0.0051

Saturn 70184-05-19 04:05 G 27355378.56 27355378.67 27355378.78 0.0282 0.0208

Earth 70185-02-08 00:58 G 27355643.54 27355643.54 27355643.54 0.2634 0.2632

Moon 70185-02-08 02:10 G 27355643.58 27355643.59 27355643.60 0.2631 0.2614

Jupiter 70186-06-18 00:29 G 27356138.38 27356138.52 27356138.66 0.0545 0.0144

Mars 70191-02-10 21:22 G 27357837.31 27357837.39 27357837.47 0.1868 0.1491

Mars 70191-12-27 03:07 G 27358156.63 27358156.63 27358156.63 0.1655 0.1654

Jupiter 70192-05-01 03:51 G 27358282.51 27358282.66 27358282.82 0.0484 0.0079

Earth 70195-08-14 02:53 G 27359482.50 27359482.62 27359482.74 0.2696 0.0635

Moon 70195-08-14 03:36 G 27359482.54 27359482.65 27359482.77 0.2693 0.0787 *

Earth 70198-02-11 00:15 G 27360394.39 27360394.51 27360394.64 0.2635 0.1164

Moon 70198-02-11 00:43 G 27360394.41 27360394.53 27360394.66 0.2629 0.1051 *

Saturn 70198-04-03 22:34 G 27360446.34 27360446.44 27360446.55 0.0276 0.0203

Jupiter 70198-04-06 02:10 G 27360448.49 27360448.59 27360448.71 0.0545 0.0350

Saturn 70198-07-01 13:41 G 27360534.92 27360535.07 27360535.22 0.0276 0.0060

Jupiter 70198-07-04 19:27 G 27360538.27 27360538.31 27360538.35 0.0545 0.0516

Saturn 70198-09-28 04:19 G 27360623.54 27360623.68 27360623.83 0.0276 0.0081

Saturn 70198-12-25 18:43 G 27360712.19 27360712.28 27360712.37 0.0276 0.0218

Venus 70200-03-11 00:29 G 27361152.48 27361152.52 27361152.56 0.3695 0.3446

Mars 70200-07-04 02:39 G 27361267.49 27361267.61 27361267.74 0.1862 0.0380

Mars 70201-05-19 09:36 G 27361586.77 27361586.90 27361587.02 0.1659 0.0856

Jupiter 70204-02-19 05:46 G 27362592.61 27362592.74 27362592.88 0.0484 0.0242

Jupiter 70204-05-18 20:39 G 27362682.29 27362682.36 27362682.44 0.0483 0.0424

Venus 70205-09-24 19:27 G 27363176.19 27363176.31 27363176.43 0.3694 0.0049

Neptune 70207-07-04 22:34 G 27363824.39 27363824.44 27363824.49 0.0088 0.0083

Neptune 70207-10-01 00:29 G 27363912.45 27363912.52 27363912.62 0.0088 0.0075

Neptune 70207-12-28 03:07 G 27364000.52 27364000.63 27364000.74 0.0088 0.0066

Neptune 70208-03-25 05:03 G 27364088.61 27364088.71 27364088.85 0.0088 0.0058

Neptune 70208-06-21 07:41 G 27364176.69 27364176.82 27364176.96 0.0088 0.0049

Earth 70208-08-16 23:17 G 27364233.39 27364233.47 27364233.55 0.2695 0.1934

Moon 70208-08-16 23:46 G 27364233.41 27364233.49 27364233.57 0.2689 0.1944 *

Neptune 70208-09-17 10:05 G 27364264.78 27364264.92 27364265.07 0.0088 0.0040

Neptune 70208-12-14 12:29 G 27364352.87 27364353.02 27364353.18 0.0088 0.0031

Neptune 70209-03-12 14:39 G 27364440.96 27364441.11 27364441.28 0.0088 0.0023

Neptune 70209-06-08 17:17 G 27364529.06 27364529.22 27364529.39 0.0088 0.0014

Neptune 70209-09-04 19:41 G 27364617.16 27364617.32 27364617.49 0.0088 0.0005

Mars 70209-11-24 08:39 G 27364697.74 27364697.86 27364697.98 0.1857 0.0685

Neptune 70209-12-01 22:05 G 27364705.26 27364705.42 27364705.59 0.0088 0.0004

Neptune 70210-02-28 00:29 G 27364793.36 27364793.52 27364793.69 0.0088 0.0013

Jupiter 70210-04-23 21:22 G 27364848.27 27364848.39 27364848.50 0.0545 0.0312

Neptune 70210-05-27 02:53 G 27364881.46 27364881.62 27364881.79 0.0088 0.0022

Neptune 70210-08-23 05:31 G 27364969.57 27364969.73 27364969.88 0.0088 0.0031

Mars 70210-10-09 15:36 G 27365017.00 27365017.15 27365017.29 0.1663 0.0048

Neptune 70210-11-19 07:55 G 27365057.68 27365057.83 27365057.98 0.0088 0.0040

Moon 70211-02-14 23:46 G 27365145.35 27365145.49 27365145.63 0.2629 0.0320

Earth 70211-02-15 00:00 G 27365145.37 27365145.50 27365145.64 0.2636 0.0384 *

Neptune 70211-02-15 10:19 G 27365145.79 27365145.93 27365146.07 0.0088 0.0049

Venus 70211-04-10 14:10 G 27365200.05 27365200.09 27365200.13 0.3693 0.3409

Neptune 70211-05-14 12:29 G 27365233.91 27365234.02 27365234.16 0.0088 0.0059

Neptune 70211-08-10 14:53 G 27365322.03 27365322.12 27365322.25 0.0088 0.0068

Neptune 70211-11-06 17:31 G 27365410.16 27365410.23 27365410.32 0.0088 0.0077

Neptune 70212-02-02 20:10 G 27365498.32 27365498.34 27365498.38 0.0088 0.0086

Saturn 70213-04-12 18:43 G 27365933.15 27365933.28 27365933.41 0.0282 0.0160

Saturn 70213-07-10 10:48 G 27366021.79 27366021.95 27366022.10 0.0282 0.0010

Saturn 70213-10-07 03:07 G 27366110.49 27366110.63 27366110.76 0.0282 0.0147

Earth 70215-08-10 14:39 G 27366783.02 27366783.11 27366783.20 0.2698 0.1822

Moon 70215-08-10 15:07 G 27366783.04 27366783.13 27366783.22 0.2703 0.1803 *

Jupiter 70215-12-08 08:10 G 27366902.76 27366902.84 27366902.93 0.0484 0.0399

Jupiter 70216-03-06 22:34 G 27366992.31 27366992.44 27366992.58 0.0484 0.0261

Venus 70218-05-06 18:15 G 27367783.15 27367783.26 27367783.38 0.3677 0.1437

Uranus 70218-08-02 07:12 G 27367870.77 27367870.80 27367870.84 0.0143 0.0139

Uranus 70218-10-29 12:43 G 27367958.95 27367959.03 27367959.14 0.0143 0.0114

Uranus 70219-01-25 18:43 G 27368047.15 27368047.28 27368047.41 0.0142 0.0088

Mars 70219-04-16 14:53 G 27368128.07 27368128.12 27368128.17 0.1851 0.1693

Uranus 70219-04-24 00:15 G 27368135.37 27368135.51 27368135.67 0.0142 0.0063

Uranus 70219-07-21 06:15 G 27368223.60 27368223.76 27368223.92 0.0142 0.0036

Uranus 70219-10-17 12:15 G 27368311.84 27368312.01 27368312.17 0.0142 0.0010

Uranus 70220-01-13 18:00 G 27368400.09 27368400.25 27368400.42 0.0142 0.0016

Mars 70220-02-29 21:07 G 27368447.25 27368447.38 27368447.50 0.1668 0.0848

Uranus 70220-04-10 23:46 G 27368488.34 27368488.49 27368488.66 0.0142 0.0043

Uranus 70220-07-08 06:00 G 27368576.60 27368576.75 27368576.90 0.0142 0.0069

Uranus 70220-10-04 11:46 G 27368664.88 27368664.99 27368665.12 0.0142 0.0096

Uranus 70220-12-31 17:46 G 27368753.17 27368753.24 27368753.34 0.0142 0.0123

Jupiter 70222-02-09 21:51 G 27369158.27 27369158.41 27369158.55 0.0544 0.0082

Venus 70223-11-20 16:19 G 27369807.11 27369807.18 27369807.25 0.3678 0.2968

Moon 70224-02-17 23:03 G 27369896.37 27369896.46 27369896.56 0.2634 0.1858

Earth 70224-02-18 00:15 G 27369896.42 27369896.51 27369896.60 0.2637 0.1970 *

Saturn 70227-08-23 00:29 G 27371178.44 27371178.52 27371178.60 0.0277 0.0238

Saturn 70227-11-19 15:36 G 27371267.01 27371267.15 27371267.30 0.0277 0.0093

Jupiter 70227-12-25 00:29 G 27371302.37 27371302.52 27371302.68 0.0484 0.0096

Saturn 70228-02-16 06:29 G 27371355.62 27371355.77 27371355.92 0.0277 0.0050

Saturn 70228-05-14 21:07 G 27371444.27 27371444.38 27371444.49 0.0277 0.0188

Earth 70228-08-12 11:31 G 27371533.86 27371533.98 27371534.10 0.2697 0.0448

Moon 70228-08-12 12:29 G 27371533.89 27371534.02 27371534.14 0.2700 0.0294 *

Mars 70230-08-12 21:22 G 27372264.33 27372264.39 27372264.46 0.1868 0.1617

Earth 70231-02-10 06:29 G 27372445.71 27372445.77 27372445.83 0.2634 0.2362

Moon 70231-02-10 07:27 G 27372445.74 27372445.81 27372445.89 0.2631 0.2174 *

Jupiter 70233-11-28 23:03 G 27373468.32 27373468.46 27373468.60 0.0544 0.0140

Jupiter 70239-10-13 02:24 G 27375612.44 27375612.60 27375612.76 0.0484 0.0070

Mars 70240-01-03 02:53 G 27375694.50 27375694.62 27375694.74 0.1863 0.0506

Mars 70240-11-17 09:51 G 27376013.80 27376013.91 27376014.03 0.1659 0.0977

Earth 70241-08-15 08:10 G 27376284.72 27376284.84 27376284.95 0.2696 0.0889

Moon 70241-08-15 08:53 G 27376284.75 27376284.87 27376284.98 0.2692 0.0886 *

Saturn 70242-08-30 21:07 G 27376665.27 27376665.38 27376665.49 0.0282 0.0190

Saturn 70242-11-27 12:58 G 27376753.89 27376754.04 27376754.19 0.0282 0.0040

Saturn 70243-02-24 05:03 G 27376842.57 27376842.71 27376842.86 0.0282 0.0115

Saturn 70243-05-23 21:36 G 27376931.37 27376931.40 27376931.45 0.0282 0.0272

Earth 70244-02-13 06:00 G 27377196.62 27377196.75 27377196.88 0.2635 0.0868

Moon 70244-02-13 06:15 G 27377196.63 27377196.76 27377196.89 0.2628 0.0922 *

Jupiter 70245-09-17 00:00 G 27377778.40 27377778.50 27377778.61 0.0545 0.0358

Jupiter 70245-12-15 17:17 G 27377868.17 27377868.22 27377868.27 0.0545 0.0508

Mars 70249-05-25 08:39 G 27379124.74 27379124.86 27379124.98 0.1857 0.0559

Mars 70250-04-09 15:51 G 27379444.01 27379444.16 27379444.30 0.1663 0.0145

Jupiter 70251-08-01 04:34 G 27379922.55 27379922.69 27379922.83 0.0484 0.0230

Jupiter 70251-10-29 19:27 G 27380012.25 27380012.31 27380012.38 0.0483 0.0436

Earth 70254-08-18 04:34 G 27381035.62 27381035.69 27381035.75 0.2695 0.2177

Moon 70254-08-18 04:48 G 27381035.63 27381035.70 27381035.76 0.2689 0.2241 *

Venus 70256-10-15 22:48 G 27381825.36 27381825.45 27381825.55 0.3695 0.2133

Moon 70257-02-15 05:17 G 27381947.59 27381947.72 27381947.86 0.2630 0.0683

Earth 70257-02-15 05:46 G 27381947.61 27381947.74 27381947.87 0.2636 0.0672 *

Saturn 70257-04-07 16:05 G 27381999.04 27381999.17 27381999.30 0.0277 0.0141

Saturn 70257-07-05 06:58 G 27382087.64 27382087.79 27382087.95 0.0276 0.0008

Saturn 70257-10-01 21:36 G 27382176.27 27382176.40 27382176.53 0.0276 0.0141

Jupiter 70257-10-03 19:27 G 27382178.19 27382178.31 27382178.42 0.0545 0.0310

Mars 70258-10-15 14:39 G 27382555.05 27382555.11 27382555.17 0.1851 0.1591

Mars 70259-08-30 21:36 G 27382874.27 27382874.40 27382874.53 0.1668 0.0710

Earth 70261-08-10 19:55 G 27383585.23 27383585.33 27383585.43 0.2698 0.1558

Moon 70261-08-10 20:39 G 27383585.26 27383585.36 27383585.46 0.2703 0.1460 *

Uranus 70261-11-06 00:29 G 27383672.48 27383672.52 27383672.57 0.0135 0.0128

Uranus 70262-02-02 04:48 G 27383760.61 27383760.70 27383760.79 0.0136 0.0107

Uranus 70262-05-01 09:07 G 27383848.76 27383848.88 27383849.00 0.0136 0.0086

Venus 70262-05-01 17:46 G 27383849.13 27383849.24 27383849.34 0.3693 0.1317

Uranus 70262-07-28 13:12 G 27383936.92 27383937.05 27383937.19 0.0136 0.0065

Uranus 70262-10-24 17:31 G 27384025.09 27384025.23 27384025.37 0.0136 0.0045

Uranus 70263-01-20 21:36 G 27384113.26 27384113.40 27384113.55 0.0136 0.0024

Uranus 70263-04-19 01:55 G 27384201.43 27384201.58 27384201.73 0.0136 0.0005

Jupiter 70263-05-20 06:29 G 27384232.68 27384232.77 27384232.86 0.0484 0.0392

Uranus 70263-07-16 06:00 G 27384289.60 27384289.75 27384289.89 0.0136 0.0017

Jupiter 70263-08-17 20:53 G 27384322.24 27384322.37 27384322.51 0.0483 0.0267

Uranus 70263-10-12 10:05 G 27384377.78 27384377.92 27384378.06 0.0136 0.0037

Uranus 70264-01-08 14:10 G 27384465.95 27384466.09 27384466.22 0.0136 0.0057

Uranus 70264-04-05 18:00 G 27384554.13 27384554.25 27384554.37 0.0136 0.0078

Uranus 70264-07-02 22:05 G 27384642.32 27384642.42 27384642.52 0.0136 0.0097

Pluto 70264-08-02 04:05 G 27384672.59 27384672.67 27384672.80 0.0080 0.0061

Uranus 70264-09-29 01:55 G 27384730.52 27384730.58 27384730.66 0.0136 0.0117

Pluto 70264-10-29 06:29 G 27384760.63 27384760.77 27384760.91 0.0079 0.0039

Pluto 70265-01-25 08:10 G 27384848.68 27384848.84 27384849.00 0.0079 0.0018

Pluto 70265-04-23 09:51 G 27384936.75 27384936.91 27384937.08 0.0079 0.0005

Pluto 70265-07-20 11:46 G 27385024.84 27385024.99 27385025.15 0.0079 0.0024

Pluto 70265-10-16 13:27 G 27385112.93 27385113.06 27385113.20 0.0079 0.0045

Pluto 70266-01-12 15:22 G 27385201.05 27385201.14 27385201.23 0.0079 0.0066

Mars 70269-01-20 02:53 G 27386304.58 27386304.62 27386304.65 0.1672 0.1608

Jupiter 70269-07-22 21:07 G 27386488.24 27386488.38 27386488.52 0.0545 0.0104

Mars 70270-02-10 21:22 G 27386691.35 27386691.39 27386691.44 0.1868 0.1734

Moon 70270-02-18 04:34 G 27386698.62 27386698.69 27386698.78 0.2635 0.2130

Earth 70270-02-18 06:00 G 27386698.68 27386698.75 27386698.81 0.2637 0.2274 *

Saturn 70272-01-17 20:24 G 27387397.28 27387397.35 27387397.42 0.0282 0.0247

Saturn 70272-04-15 12:00 G 27387485.86 27387486.00 27387486.15 0.0282 0.0099

Saturn 70272-07-13 04:19 G 27387574.52 27387574.68 27387574.83 0.0282 0.0054

Saturn 70272-10-09 20:39 G 27387663.26 27387663.36 27387663.47 0.0282 0.0210

Earth 70274-08-13 16:48 G 27388336.07 27388336.20 27388336.32 0.2697 0.0212

Moon 70274-08-13 17:31 G 27388336.11 27388336.23 27388336.35 0.2698 0.0168 *

Venus 70274-12-11 17:17 G 27388456.09 27388456.22 27388456.35 0.3677 0.0120

Jupiter 70275-06-05 23:03 G 27388632.31 27388632.46 27388632.61 0.0484 0.0104

Earth 70277-02-10 12:00 G 27389247.92 27389248.00 27389248.09 0.2634 0.2083

Moon 70277-02-10 12:58 G 27389247.96 27389248.04 27389248.13 0.2631 0.2062 *

Mars 70279-07-04 03:07 G 27390121.51 27390121.63 27390121.75 0.1863 0.0638

Mars 70280-05-18 10:05 G 27390440.82 27390440.92 27390441.03 0.1659 0.1098

Jupiter 70281-05-10 21:36 G 27390798.26 27390798.40 27390798.54 0.0544 0.0128

Saturn 70286-08-25 18:00 G 27392731.13 27392731.25 27392731.37 0.0278 0.0176

Saturn 70286-11-22 08:53 G 27392819.72 27392819.87 27392820.03 0.0277 0.0033

Saturn 70287-02-18 23:46 G 27392908.35 27392908.49 27392908.63 0.0277 0.0109

Jupiter 70287-03-25 00:58 G 27392942.38 27392942.54 27392942.70 0.0484 0.0061

Saturn 70287-05-18 14:10 G 27392997.02 27392997.09 27392997.16 0.0277 0.0247

Earth 70287-08-16 13:12 G 27393086.94 27393087.05 27393087.16 0.2696 0.1132

Moon 70287-08-16 13:55 G 27393086.98 27393087.08 27393087.19 0.2692 0.1286 *

Mars 70288-11-23 08:39 G 27393551.74 27393551.86 27393551.99 0.1857 0.0443

Neptune 70289-01-23 17:31 G 27393613.18 27393613.23 27393613.30 0.0089 0.0082

Neptune 70289-04-21 19:41 G 27393701.23 27393701.32 27393701.41 0.0089 0.0073

Neptune 70289-07-18 21:22 G 27393789.30 27393789.39 27393789.51 0.0089 0.0065

Mars 70289-10-08 16:05 G 27393871.03 27393871.17 27393871.32 0.1663 0.0278

Neptune 70289-10-14 23:31 G 27393877.37 27393877.48 27393877.60 0.0089 0.0056

Neptune 70290-01-11 01:12 G 27393965.44 27393965.55 27393965.69 0.0089 0.0048

Moon 70290-02-13 11:46 G 27393998.85 27393998.99 27393999.12 0.2628 0.0483

Earth 70290-02-13 11:31 G 27393998.85 27393998.98 27393999.11 0.2635 0.0590 *

Neptune 70290-04-09 03:22 G 27394053.51 27394053.64 27394053.78 0.0089 0.0038

Neptune 70290-07-06 05:31 G 27394141.59 27394141.73 27394141.87 0.0089 0.0030

Neptune 70290-10-02 07:12 G 27394229.66 27394229.80 27394229.95 0.0089 0.0022

Neptune 70290-12-29 09:22 G 27394317.74 27394317.89 27394318.04 0.0089 0.0013

Neptune 70291-03-27 11:17 G 27394405.82 27394405.97 27394406.12 0.0089 0.0005

Neptune 70291-06-23 12:58 G 27394493.90 27394494.04 27394494.19 0.0089 0.0005

Neptune 70291-09-19 14:53 G 27394581.98 27394582.12 27394582.27 0.0089 0.0013

Neptune 70291-12-16 16:48 G 27394670.06 27394670.20 27394670.35 0.0089 0.0021

Neptune 70292-03-13 18:43 G 27394758.14 27394758.28 27394758.42 0.0089 0.0029

Neptune 70292-06-09 20:39 G 27394846.22 27394846.36 27394846.49 0.0089 0.0038

Neptune 70292-09-05 22:19 G 27394934.31 27394934.43 27394934.56 0.0089 0.0046

Neptune 70292-12-03 00:00 G 27395022.40 27395022.50 27395022.63 0.0089 0.0055

Jupiter 70293-02-26 22:34 G 27395108.33 27395108.44 27395108.55 0.0544 0.0353

Neptune 70293-03-01 01:55 G 27395110.48 27395110.58 27395110.69 0.0089 0.0063

Jupiter 70293-05-27 15:36 G 27395198.10 27395198.15 27395198.20 0.0545 0.0510

Neptune 70293-05-28 03:51 G 27395198.58 27395198.66 27395198.75 0.0089 0.0071

Neptune 70293-08-24 05:17 G 27395286.67 27395286.72 27395286.81 0.0089 0.0080

Neptune 70293-11-20 07:12 G 27395374.79 27395374.80 27395374.85 0.0089 0.0088

Mars 70298-04-15 14:53 G 27396982.05 27396982.12 27396982.20 0.1851 0.1458

Jupiter 70299-01-11 02:53 G 27397252.48 27397252.62 27397252.76 0.0484 0.0225

Mars 70299-02-28 21:51 G 27397301.27 27397301.41 27397301.55 0.1668 0.0586

Jupiter 70299-04-10 17:46 G 27397342.18 27397342.24 27397342.30 0.0484 0.0442

Moon 70300-08-19 09:36 G 27397837.85 27397837.90 27397837.96 0.2689 0.2350

Earth 70300-08-19 09:36 G 27397837.85 27397837.90 27397837.95 0.2695 0.2420 *

Saturn 70301-06-06 23:17 G 27398129.44 27398129.47 27398129.51 0.0282 0.0272

Saturn 70301-09-03 14:53 G 27398217.98 27398218.12 27398218.26 0.0282 0.0125

Saturn 70301-12-01 06:58 G 27398306.63 27398306.79 27398306.94 0.0282 0.0027

Saturn 70302-02-27 23:03 G 27398395.35 27398395.46 27398395.59 0.0282 0.0183

Uranus 70302-08-23 14:53 G 27398572.06 27398572.12 27398572.18 0.0143 0.0130

Uranus 70302-11-19 20:24 G 27398660.25 27398660.35 27398660.47 0.0143 0.0105

Uranus 70303-02-16 01:55 G 27398748.46 27398748.58 27398748.73 0.0143 0.0080

Moon 70303-02-17 10:48 G 27398749.82 27398749.95 27398750.08 0.2631 0.0828

Earth 70303-02-17 11:31 G 27398749.85 27398749.98 27398750.10 0.2636 0.0972 *

Uranus 70303-05-15 07:55 G 27398836.68 27398836.83 27398836.99 0.0142 0.0053

Uranus 70303-08-11 13:41 G 27398924.91 27398925.07 27398925.24 0.0142 0.0028

Uranus 70303-11-07 19:41 G 27399013.15 27399013.32 27399013.49 0.0142 0.0001

Uranus 70304-02-04 01:27 G 27399101.40 27399101.56 27399101.73 0.0142 0.0026

Uranus 70304-05-02 07:12 G 27399189.66 27399189.80 27399189.97 0.0142 0.0053

Uranus 70304-07-29 13:27 G 27399277.92 27399278.06 27399278.20 0.0142 0.0078

Uranus 70304-10-25 19:12 G 27399366.20 27399366.30 27399366.42 0.0142 0.0105

Uranus 70305-01-22 01:12 G 27399454.50 27399454.55 27399454.62 0.0142 0.0132

Jupiter 70305-03-16 17:03 G 27399508.09 27399508.21 27399508.33 0.0545 0.0301

Earth 70307-08-13 01:12 G 27400387.44 27400387.55 27400387.65 0.2698 0.1301

Moon 70307-08-13 01:55 G 27400387.47 27400387.58 27400387.68 0.2703 0.1239 *

Mars 70308-07-22 03:07 G 27400731.57 27400731.63 27400731.70 0.1672 0.1474

Mars 70309-08-12 21:36 G 27401118.40 27401118.40 27401118.41 0.1868 0.1864

Jupiter 70310-10-31 05:03 G 27401562.62 27401562.71 27401562.81 0.0484 0.0383

Jupiter 70311-01-28 19:27 G 27401652.19 27401652.31 27401652.45 0.0483 0.0277

Venus 70313-05-23 21:07 G 27402498.27 27402498.38 27402498.49 0.3694 0.0851

Saturn 70316-01-13 18:43 G 27403463.19 27403463.28 27403463.37 0.0277 0.0221

Moon 70316-02-20 10:34 G 27403500.90 27403500.94 27403500.98 0.2635 0.2497

Earth 70316-02-20 11:46 G 27403500.96 27403500.99 27403501.01 0.2637 0.2584 *

Saturn 70316-04-11 09:51 G 27403551.76 27403551.91 27403552.06 0.0277 0.0077

Saturn 70316-07-09 00:43 G 27403640.38 27403640.53 27403640.67 0.0276 0.0065

Saturn 70316-10-05 15:07 G 27403729.03 27403729.13 27403729.23 0.0276 0.0202

Jupiter 70317-01-02 18:58 G 27403818.15 27403818.29 27403818.43 0.0545 0.0098

Venus 70318-12-07 15:51 G 27404522.08 27404522.16 27404522.24 0.3693 0.2565

Mars 70319-01-03 02:53 G 27404548.51 27404548.62 27404548.74 0.1862 0.0750

Mars 70319-11-18 10:34 G 27404867.85 27404867.94 27404868.04 0.1659 0.1226

Earth 70320-08-14 21:51 G 27405138.29 27405138.41 27405138.54 0.2697 0.0098

Moon 70320-08-14 22:48 G 27405138.33 27405138.45 27405138.57 0.2696 0.0196 *

Jupiter 70322-11-16 21:22 G 27405962.23 27405962.39 27405962.54 0.0484 0.0108

Earth 70323-02-12 17:46 G 27406050.14 27406050.24 27406050.34 0.2634 0.1802

Moon 70323-02-12 18:29 G 27406050.16 27406050.27 27406050.37 0.2629 0.1679 *

Venus 70326-01-02 18:29 G 27407105.18 27407105.27 27407105.36 0.3676 0.2627

Mars 70328-05-25 08:53 G 27407978.75 27407978.87 27407979.00 0.1857 0.0314

Jupiter 70328-10-21 20:39 G 27408128.22 27408128.36 27408128.50 0.0545 0.0111

Mars 70329-04-09 16:34 G 27408298.05 27408298.19 27408298.33 0.1663 0.0401

Saturn 70331-01-21 14:24 G 27408949.98 27408950.10 27408950.21 0.0282 0.0181

Saturn 70331-04-20 06:15 G 27409038.60 27409038.76 27409038.91 0.0282 0.0032

Saturn 70331-07-17 22:19 G 27409127.29 27409127.43 27409127.57 0.0282 0.0123

Venus 70331-07-19 16:19 G 27409129.07 27409129.18 27409129.29 0.3677 0.1695

Saturn 70331-10-14 14:53 G 27409216.11 27409216.12 27409216.14 0.0282 0.0280

Earth 70333-08-17 18:29 G 27409889.17 27409889.27 27409889.37 0.2696 0.1383

Moon 70333-08-17 19:12 G 27409889.19 27409889.30 27409889.40 0.2692 0.1379 *

Jupiter 70334-09-04 23:17 G 27410272.32 27410272.47 27410272.63 0.0484 0.0055

Earth 70336-02-15 17:17 G 27410801.08 27410801.22 27410801.35 0.2635 0.0297

Moon 70336-02-15 17:17 G 27410801.09 27410801.22 27410801.36 0.2628 0.0370 *

Mars 70337-10-15 14:53 G 27411409.04 27411409.12 27411409.21 0.1851 0.1339

Mars 70338-08-30 22:19 G 27411728.29 27411728.43 27411728.57 0.1668 0.0460

Jupiter 70340-08-09 21:07 G 27412438.27 27412438.38 27412438.49 0.0544 0.0342

Earth 70340-08-10 09:22 G 27412438.84 27412438.89 27412438.94 0.2699 0.2437

Moon 70340-08-10 09:36 G 27412438.84 27412438.90 27412438.96 0.2705 0.2349 *

Jupiter 70340-11-07 14:10 G 27412528.06 27412528.09 27412528.13 0.0544 0.0521

Saturn 70345-06-01 20:10 G 27414195.29 27414195.34 27414195.39 0.0278 0.0259

Saturn 70345-08-29 11:31 G 27414283.84 27414283.98 27414284.12 0.0278 0.0113

Saturn 70345-11-26 02:24 G 27414372.45 27414372.60 27414372.76 0.0277 0.0031

Uranus 70345-11-27 07:41 G 27414373.76 27414373.82 27414373.90 0.0135 0.0121

Saturn 70346-02-22 17:03 G 27414461.10 27414461.21 27414461.33 0.0277 0.0170

Uranus 70346-02-23 12:00 G 27414461.91 27414462.00 27414462.11 0.0136 0.0100

Uranus 70346-05-22 16:19 G 27414550.06 27414550.18 27414550.31 0.0136 0.0079

Jupiter 70346-06-24 01:12 G 27414582.41 27414582.55 27414582.69 0.0484 0.0219

Uranus 70346-08-18 20:39 G 27414638.23 27414638.36 27414638.50 0.0136 0.0058

Earth 70346-08-20 14:39 G 27414640.10 27414640.11 27414640.13 0.2695 0.2659

Jupiter 70346-09-21 16:05 G 27414672.12 27414672.17 27414672.23 0.0484 0.0449

Uranus 70346-11-15 00:43 G 27414726.39 27414726.53 27414726.68 0.0136 0.0038

Uranus 70347-02-11 05:03 G 27414814.56 27414814.71 27414814.86 0.0136 0.0017

Uranus 70347-05-10 09:07 G 27414902.73 27414902.88 27414903.03 0.0136 0.0004

Uranus 70347-08-06 13:12 G 27414990.91 27414991.05 27414991.20 0.0136 0.0024

Uranus 70347-11-02 17:17 G 27415079.08 27415079.22 27415079.36 0.0136 0.0044

Mars 70348-01-21 03:36 G 27415158.56 27415158.65 27415158.74 0.1672 0.1339

Uranus 70348-01-29 21:22 G 27415167.26 27415167.39 27415167.52 0.0136 0.0065

Uranus 70348-04-27 01:27 G 27415255.45 27415255.56 27415255.68 0.0136 0.0085

Uranus 70348-07-24 05:31 G 27415343.64 27415343.73 27415343.82 0.0136 0.0105

Uranus 70348-10-20 09:22 G 27415431.84 27415431.89 27415431.95 0.0136 0.0124

Moon 70349-02-17 16:05 G 27415552.05 27415552.17 27415552.30 0.2632 0.1261

Earth 70349-02-17 17:03 G 27415552.09 27415552.21 27415552.33 0.2636 0.1264 *

Jupiter 70352-08-26 15:36 G 27416838.03 27416838.15 27416838.26 0.0544 0.0305

Earth 70353-08-13 06:29 G 27417189.65 27417189.77 27417189.88 0.2698 0.1043

Moon 70353-08-13 07:12 G 27417189.68 27417189.80 27417189.91 0.2702 0.0974 *

Jupiter 70358-04-12 03:22 G 27418892.54 27418892.64 27418892.73 0.0484 0.0380

Mars 70358-07-04 03:07 G 27418975.52 27418975.63 27418975.75 0.1862 0.0878

Jupiter 70358-07-10 17:46 G 27418982.11 27418982.24 27418982.37 0.0484 0.0279

Mars 70359-05-19 10:48 G 27419294.87 27419294.95 27419295.04 0.1659 0.1344

Saturn 70360-06-09 17:17 G 27419682.12 27419682.22 27419682.33 0.0282 0.0205

Saturn 70360-09-06 09:07 G 27419770.73 27419770.88 27419771.03 0.0282 0.0056

Saturn 70360-12-04 01:12 G 27419859.41 27419859.55 27419859.70 0.0282 0.0097

Saturn 70361-03-02 17:31 G 27419948.17 27419948.23 27419948.31 0.0282 0.0255

Venus 70364-06-14 00:29 G 27421147.46 27421147.52 27421147.58 0.3695 0.3076

Jupiter 70364-06-14 16:34 G 27421148.05 27421148.19 27421148.33 0.0545 0.0087

Earth 70366-08-16 03:07 G 27421940.51 27421940.63 27421940.75 0.2697 0.0314

Moon 70366-08-16 04:05 G 27421940.55 27421940.67 27421940.79 0.2695 0.0392 *

Mars 70367-11-24 08:53 G 27422405.74 27422405.87 27422406.00 0.1857 0.0198

Mars 70368-10-08 16:48 G 27422725.07 27422725.20 27422725.34 0.1663 0.0524

Earth 70369-02-12 23:17 G 27422852.36 27422852.47 27422852.58 0.2634 0.1525

Moon 70369-02-12 23:46 G 27422852.38 27422852.49 27422852.61 0.2628 0.1491 *

Venus 70369-12-28 19:27 G 27423171.19 27423171.31 27423171.42 0.3694 0.0436

Jupiter 70370-04-28 19:41 G 27423292.17 27423292.32 27423292.47 0.0484 0.0115

Neptune 70372-01-03 18:43 G 27423907.28 27423907.28 27423907.30 0.0088 0.0088

Neptune 70372-03-31 20:53 G 27423995.32 27423995.37 27423995.46 0.0088 0.0079

Neptune 70372-06-27 23:31 G 27424083.39 27424083.48 27424083.58 0.0088 0.0070

Neptune 70372-09-24 01:41 G 27424171.46 27424171.57 27424171.69 0.0088 0.0062

Neptune 70372-12-21 04:05 G 27424259.55 27424259.67 27424259.81 0.0088 0.0053

Neptune 70373-03-19 06:29 G 27424347.63 27424347.77 27424347.91 0.0088 0.0044

Neptune 70373-06-15 08:39 G 27424435.72 27424435.86 27424436.02 0.0088 0.0036

Neptune 70373-09-11 11:03 G 27424523.81 27424523.96 27424524.13 0.0088 0.0027

Neptune 70373-12-08 13:41 G 27424611.91 27424612.07 27424612.23 0.0088 0.0018

Neptune 70374-03-06 16:05 G 27424700.00 27424700.17 27424700.33 0.0088 0.0009

Neptune 70374-06-02 18:29 G 27424788.10 27424788.27 27424788.43 0.0088 0.0001

Neptune 70374-08-29 20:53 G 27424876.20 27424876.37 27424876.53 0.0088 0.0009

Neptune 70374-11-25 23:03 G 27424964.30 27424964.46 27424964.63 0.0088 0.0018

Saturn 70375-01-16 12:43 G 27425015.91 27425016.03 27425016.16 0.0277 0.0153

Neptune 70375-02-22 01:27 G 27425052.41 27425052.56 27425052.73 0.0088 0.0027

Saturn 70375-04-15 03:51 G 27425104.51 27425104.66 27425104.82 0.0277 0.0011

Neptune 70375-05-21 03:51 G 27425140.52 27425140.66 27425140.82 0.0088 0.0036

Saturn 70375-07-12 18:29 G 27425193.14 27425193.27 27425193.41 0.0277 0.0131

Neptune 70375-08-17 06:15 G 27425228.63 27425228.76 27425228.92 0.0088 0.0045

Saturn 70375-10-09 08:53 G 27425281.84 27425281.87 27425281.91 0.0276 0.0267

Neptune 70375-11-13 08:39 G 27425316.74 27425316.86 27425317.01 0.0088 0.0054

Neptune 70376-02-09 11:17 G 27425404.86 27425404.97 27425405.09 0.0088 0.0063

Jupiter 70376-04-02 18:15 G 27425458.12 27425458.26 27425458.40 0.0545 0.0121

Neptune 70376-05-07 13:41 G 27425492.99 27425493.07 27425493.18 0.0088 0.0072

Neptune 70376-08-03 16:19 G 27425581.12 27425581.18 27425581.25 0.0088 0.0081

Mars 70377-04-15 14:53 G 27425836.03 27425836.12 27425836.22 0.1851 0.1228

Mars 70378-02-28 22:48 G 27426155.30 27426155.45 27426155.59 0.1668 0.0322

Earth 70379-08-18 23:31 G 27426691.39 27426691.48 27426691.58 0.2696 0.1630

Moon 70379-08-19 00:00 G 27426691.41 27426691.50 27426691.60 0.2691 0.1730 *

Jupiter 70382-02-14 21:22 G 27427602.24 27427602.39 27427602.55 0.0484 0.0053

Moon 70382-02-15 22:48 G 27427603.31 27427603.45 27427603.59 0.2629 0.0067

Earth 70382-02-15 22:48 G 27427603.32 27427603.45 27427603.59 0.2635 0.0030 *

Venus 70382-08-09 17:31 G 27427778.11 27427778.23 27427778.35 0.3676 0.1091

Earth 70386-08-11 14:39 G 27429241.04 27429241.11 27429241.18 0.2699 0.2171

Moon 70386-08-11 15:07 G 27429241.06 27429241.13 27429241.20 0.2705 0.2206 *

Uranus 70386-09-12 22:19 G 27429273.35 27429273.43 27429273.52 0.0143 0.0121

Uranus 70386-12-10 04:05 G 27429361.55 27429361.67 27429361.79 0.0143 0.0096

Uranus 70387-03-08 09:51 G 27429449.77 27429449.91 27429450.05 0.0143 0.0070

Uranus 70387-06-04 15:22 G 27429537.99 27429538.14 27429538.30 0.0142 0.0045

Mars 70387-07-22 03:51 G 27429585.57 27429585.66 27429585.77 0.1672 0.1211

Uranus 70387-08-31 21:22 G 27429626.23 27429626.39 27429626.55 0.0142 0.0018

Uranus 70387-11-28 03:07 G 27429714.47 27429714.63 27429714.80 0.0142 0.0008

Jupiter 70388-01-20 19:41 G 27429768.21 27429768.32 27429768.44 0.0544 0.0333

Venus 70388-02-23 15:36 G 27429802.10 27429802.15 27429802.20 0.3678 0.3317

Uranus 70388-02-24 09:07 G 27429802.72 27429802.88 27429803.04 0.0142 0.0034

Jupiter 70388-04-19 12:58 G 27429858.02 27429858.04 27429858.07 0.0545 0.0533

Uranus 70388-05-22 14:53 G 27429890.97 27429891.12 27429891.28 0.0142 0.0061

Uranus 70388-08-18 20:53 G 27429979.24 27429979.37 27429979.51 0.0142 0.0087

Uranus 70388-11-15 02:53 G 27430067.53 27430067.62 27430067.72 0.0142 0.0114

Uranus 70389-02-11 08:53 G 27430155.86 27430155.87 27430155.89 0.0142 0.0141

Saturn 70389-10-27 17:03 G 27430414.15 27430414.21 27430414.27 0.0282 0.0258

Saturn 70390-01-24 08:39 G 27430502.72 27430502.86 27430503.00 0.0282 0.0111

Saturn 70390-04-23 00:43 G 27430591.37 27430591.53 27430591.68 0.0282 0.0041

Saturn 70390-07-20 16:48 G 27430680.10 27430680.20 27430680.32 0.0282 0.0196

Jupiter 70393-12-03 23:31 G 27431912.34 27431912.48 27431912.62 0.0484 0.0213

Jupiter 70394-03-03 14:24 G 27432002.05 27432002.10 27432002.15 0.0484 0.0454

Moon 70395-02-18 21:51 G 27432354.29 27432354.41 27432354.53 0.2632 0.1378

Earth 70395-02-18 22:48 G 27432354.34 27432354.45 27432354.56 0.2636 0.1568 *

Mars 70398-01-02 03:22 G 27433402.53 27433402.64 27433402.75 0.1862 0.1009

Mars 70398-11-17 11:17 G 27433721.90 27433721.97 27433722.03 0.1659 0.1465

Earth 70399-08-14 11:31 G 27433991.87 27433991.98 27433992.10 0.2698 0.0785

Moon 70399-08-14 12:29 G 27433991.90 27433992.02 27433992.14 0.2700 0.0650 *

Jupiter 70400-02-06 13:55 G 27434167.97 27434168.08 27434168.20 0.0544 0.0314

Moon 70402-02-11 06:29 G 27434903.75 27434903.77 27434903.80 0.2632 0.2578

Saturn 70404-06-04 14:10 G 27435747.98 27435748.09 27435748.20 0.0278 0.0192

Saturn 70404-09-01 05:17 G 27435836.57 27435836.72 27435836.88 0.0278 0.0048

Saturn 70404-11-28 20:10 G 27435925.20 27435925.34 27435925.49 0.0277 0.0095

Saturn 70405-02-25 10:48 G 27436013.87 27436013.95 27436014.03 0.0277 0.0233

Jupiter 70405-09-22 01:27 G 27436222.47 27436222.56 27436222.66 0.0485 0.0377

Jupiter 70405-12-20 15:51 G 27436312.04 27436312.16 27436312.29 0.0484 0.0283

Mars 70407-05-25 09:07 G 27436832.75 27436832.88 27436833.01 0.1857 0.0082

Mars 70408-04-08 17:17 G 27437152.09 27437152.22 27437152.35 0.1663 0.0651

Jupiter 70411-11-25 15:07 G 27438477.98 27438478.13 27438478.27 0.0544 0.0093

Earth 70412-08-16 08:24 G 27438742.73 27438742.85 27438742.97 0.2697 0.0572

Moon 70412-08-16 09:07 G 27438742.77 27438742.88 27438743.00 0.2695 0.0676 *

Earth 70415-02-14 04:48 G 27439654.58 27439654.70 27439654.82 0.2634 0.1242

Moon 70415-02-14 05:31 G 27439654.60 27439654.73 27439654.85 0.2628 0.1177 *

Mars 70416-10-14 15:07 G 27440263.03 27440263.13 27440263.23 0.1851 0.1103

Mars 70417-08-29 23:03 G 27440582.31 27440582.46 27440582.60 0.1668 0.0208

Jupiter 70417-10-08 17:31 G 27440622.08 27440622.23 27440622.39 0.0484 0.0116

Saturn 70419-03-16 20:24 G 27441146.34 27441146.35 27441146.37 0.0281 0.0280

Saturn 70419-06-13 12:00 G 27441234.87 27441235.00 27441235.14 0.0282 0.0133

Saturn 70419-09-10 03:51 G 27441323.51 27441323.66 27441323.82 0.0282 0.0019

Saturn 70419-12-07 20:10 G 27441412.22 27441412.34 27441412.47 0.0282 0.0172

Venus 70421-01-18 22:48 G 27441820.35 27441820.45 27441820.55 0.3695 0.1759

Pluto 70422-06-30 07:12 G 27442347.72 27442347.80 27442347.89 0.0064 0.0054

Pluto 70422-09-26 07:41 G 27442435.72 27442435.82 27442435.95 0.0065 0.0044

Pluto 70422-12-23 08:39 G 27442523.74 27442523.86 27442524.00 0.0065 0.0033

Pluto 70423-03-21 09:22 G 27442611.75 27442611.89 27442612.04 0.0065 0.0022

Pluto 70423-06-17 10:19 G 27442699.78 27442699.93 27442700.08 0.0065 0.0011

Pluto 70423-09-13 11:03 G 27442787.81 27442787.96 27442788.11 0.0065 0.0001

Jupiter 70423-09-13 15:51 G 27442788.02 27442788.16 27442788.30 0.0544 0.0133 *

Pluto 70423-12-10 11:46 G 27442875.84 27442875.99 27442876.14 0.0065 0.0011

Pluto 70424-03-07 12:15 G 27442963.88 27442964.01 27442964.17 0.0065 0.0022

Pluto 70424-06-03 13:12 G 27443051.92 27443052.05 27443052.19 0.0065 0.0033

Pluto 70424-08-30 13:55 G 27443139.98 27443140.08 27443140.20 0.0065 0.0044

Pluto 70424-11-26 14:39 G 27443228.04 27443228.11 27443228.20 0.0065 0.0055

Earth 70425-08-19 04:48 G 27443493.62 27443493.70 27443493.79 0.2696 0.1874

Moon 70425-08-19 05:03 G 27443493.63 27443493.71 27443493.80 0.2689 0.1867 *

Venus 70426-08-04 17:46 G 27443844.14 27443844.24 27443844.34 0.3694 0.1710

Mars 70427-01-20 04:19 G 27444012.57 27444012.68 27444012.80 0.1672 0.1074

Moon 70428-02-17 04:05 G 27444405.53 27444405.67 27444405.81 0.2629 0.0206

Earth 70428-02-17 04:34 G 27444405.55 27444405.69 27444405.82 0.2635 0.0290 *

Jupiter 70429-07-27 19:41 G 27444932.17 27444932.32 27444932.48 0.0484 0.0047

Uranus 70429-09-20 10:34 G 27444986.94 27444986.94 27444986.95 0.0135 0.0135

Uranus 70429-12-17 14:53 G 27445075.05 27445075.12 27445075.21 0.0135 0.0114

Uranus 70430-03-15 19:12 G 27445163.20 27445163.30 27445163.41 0.0136 0.0093

Uranus 70430-06-11 23:31 G 27445251.35 27445251.48 27445251.61 0.0136 0.0073

Uranus 70430-09-08 03:51 G 27445339.52 27445339.66 27445339.80 0.0136 0.0052

Uranus 70430-12-05 07:55 G 27445427.69 27445427.83 27445427.98 0.0136 0.0031

Uranus 70431-03-03 12:00 G 27445515.86 27445516.00 27445516.15 0.0136 0.0012

Uranus 70431-05-30 16:19 G 27445604.03 27445604.18 27445604.33 0.0136 0.0010

Uranus 70431-08-26 20:24 G 27445692.21 27445692.35 27445692.50 0.0136 0.0030

Uranus 70431-11-23 00:29 G 27445780.38 27445780.52 27445780.66 0.0136 0.0050

Uranus 70432-02-19 04:19 G 27445868.56 27445868.68 27445868.81 0.0136 0.0071

Uranus 70432-05-17 08:24 G 27445956.75 27445956.85 27445956.97 0.0136 0.0091

Earth 70432-08-11 19:55 G 27446043.24 27446043.33 27446043.41 0.2699 0.1910

Moon 70432-08-11 20:24 G 27446043.26 27446043.35 27446043.44 0.2705 0.1790 *

Uranus 70432-08-13 12:43 G 27446044.94 27446045.03 27446045.11 0.0136 0.0111

Uranus 70432-11-09 16:34 G 27446133.15 27446133.19 27446133.23 0.0136 0.0130

Saturn 70433-10-22 15:51 G 27446480.08 27446480.16 27446480.25 0.0277 0.0228

Saturn 70434-01-19 07:12 G 27446568.65 27446568.80 27446568.95 0.0277 0.0083

Saturn 70434-04-17 22:05 G 27446657.27 27446657.42 27446657.57 0.0277 0.0058

Saturn 70434-07-15 12:29 G 27446745.92 27446746.02 27446746.13 0.0277 0.0197

Jupiter 70435-07-02 17:17 G 27447098.11 27447098.22 27447098.33 0.0544 0.0346

Jupiter 70435-09-30 10:34 G 27447187.90 27447187.94 27447187.98 0.0545 0.0522

Mars 70437-07-03 03:22 G 27447829.54 27447829.64 27447829.74 0.1862 0.1116

Mars 70438-05-18 11:31 G 27448148.95 27448148.98 27448149.02 0.1659 0.1592

Venus 70439-03-16 16:34 G 27448451.06 27448451.19 27448451.31 0.3677 0.0466

Moon 70441-02-19 03:22 G 27449156.55 27449156.64 27449156.74 0.2632 0.1847

Earth 70441-02-19 04:34 G 27449156.59 27449156.69 27449156.78 0.2636 0.1863 *

Jupiter 70441-05-15 21:36 G 27449242.26 27449242.40 27449242.54 0.0484 0.0212

Jupiter 70441-08-13 12:29 G 27449331.97 27449332.02 27449332.07 0.0483 0.0454

Earth 70445-08-14 16:48 G 27450794.08 27450794.20 27450794.32 0.2698 0.0524

Moon 70445-08-14 17:46 G 27450794.12 27450794.24 27450794.36 0.2698 0.0491 *

Mars 70446-11-23 09:07 G 27451259.75 27451259.88 27451260.01 0.1857 0.0053

Jupiter 70447-07-19 12:29 G 27451497.90 27451498.02 27451498.13 0.0545 0.0319

Mars 70447-10-08 17:46 G 27451579.11 27451579.24 27451579.36 0.1663 0.0775

Earth 70448-02-12 11:17 G 27451705.92 27451705.97 27451706.01 0.2634 0.2431

Moon 70448-02-12 12:00 G 27451705.95 27451706.00 27451706.06 0.2630 0.2401 *

Saturn 70448-10-30 11:31 G 27451966.87 27451966.98 27451967.10 0.0282 0.0187

Saturn 70449-01-27 03:22 G 27452055.49 27452055.64 27452055.80 0.0282 0.0038

Saturn 70449-04-25 19:27 G 27452144.17 27452144.31 27452144.46 0.0282 0.0116

Saturn 70449-07-23 12:00 G 27452232.97 27452233.00 27452233.04 0.0282 0.0272

Jupiter 70453-03-03 23:46 G 27453552.40 27453552.49 27453552.59 0.0484 0.0371

Jupiter 70453-06-01 14:10 G 27453641.97 27453642.09 27453642.22 0.0484 0.0288

Neptune 70453-07-25 14:24 G 27453696.08 27453696.10 27453696.15 0.0090 0.0087

Neptune 70453-10-21 16:34 G 27453784.12 27453784.19 27453784.27 0.0090 0.0078

Neptune 70454-01-17 18:29 G 27453872.18 27453872.27 27453872.37 0.0090 0.0069

Neptune 70454-04-15 20:24 G 27453960.25 27453960.35 27453960.47 0.0090 0.0060

Neptune 70454-07-12 22:34 G 27454048.32 27454048.44 27454048.57 0.0090 0.0052

Neptune 70454-10-09 00:29 G 27454136.39 27454136.52 27454136.66 0.0089 0.0043

Neptune 70455-01-05 02:24 G 27454224.47 27454224.60 27454224.75 0.0089 0.0034

Neptune 70455-04-03 04:34 G 27454312.54 27454312.69 27454312.83 0.0089 0.0026

Neptune 70455-06-30 06:15 G 27454400.62 27454400.76 27454400.91 0.0089 0.0018

Neptune 70455-09-26 08:24 G 27454488.70 27454488.85 27454489.00 0.0089 0.0009

Neptune 70455-12-23 10:19 G 27454576.78 27454576.93 27454577.08 0.0089 0.0002

Neptune 70456-03-20 12:00 G 27454664.86 27454665.00 27454665.15 0.0089 0.0009

Mars 70456-04-14 15:22 G 27454690.03 27454690.14 27454690.25 0.1851 0.0974

Neptune 70456-06-16 13:55 G 27454752.94 27454753.08 27454753.23 0.0089 0.0017

Neptune 70456-09-12 15:51 G 27454841.02 27454841.16 27454841.31 0.0089 0.0025

Neptune 70456-12-09 17:46 G 27454929.10 27454929.24 27454929.38 0.0089 0.0033

Mars 70457-02-27 23:17 G 27455009.33 27455009.47 27455009.62 0.1668 0.0085

Neptune 70457-03-07 19:41 G 27455017.19 27455017.32 27455017.45 0.0089 0.0042

Neptune 70457-06-03 21:07 G 27455105.27 27455105.38 27455105.52 0.0089 0.0051

Neptune 70457-08-30 23:03 G 27455193.36 27455193.46 27455193.58 0.0089 0.0059

Neptune 70457-11-27 00:58 G 27455281.45 27455281.54 27455281.65 0.0089 0.0067

Neptune 70458-02-23 02:53 G 27455369.55 27455369.62 27455369.71 0.0089 0.0075

Neptune 70458-05-22 04:48 G 27455457.65 27455457.70 27455457.75 0.0089 0.0083

Earth 70458-08-17 13:27 G 27455544.95 27455545.06 27455545.18 0.2697 0.0818

Moon 70458-08-17 14:24 G 27455544.98 27455545.10 27455545.21 0.2694 0.0916 *

Jupiter 70459-05-07 13:41 G 27455807.92 27455808.07 27455808.21 0.0544 0.0101

Earth 70461-02-14 10:19 G 27456456.81 27456456.93 27456457.06 0.2634 0.0965

Moon 70461-02-14 10:48 G 27456456.83 27456456.95 27456457.08 0.2628 0.0904 *

Saturn 70463-03-11 17:03 G 27457212.18 27457212.21 27457212.24 0.0278 0.0270

Saturn 70463-06-08 08:24 G 27457300.71 27457300.85 27457300.99 0.0278 0.0124

Saturn 70463-09-04 23:31 G 27457389.32 27457389.48 27457389.63 0.0278 0.0021

Saturn 70463-12-02 14:10 G 27457477.97 27457478.09 27457478.21 0.0277 0.0160

Jupiter 70465-03-20 15:51 G 27457952.00 27457952.16 27457952.31 0.0484 0.0117

Mars 70466-07-21 04:48 G 27458439.58 27458439.70 27458439.82 0.1672 0.0943

Uranus 70470-07-07 00:00 G 27459886.48 27459886.50 27459886.56 0.0143 0.0138

Uranus 70470-10-03 06:00 G 27459974.65 27459974.75 27459974.85 0.0143 0.0112

Uranus 70470-12-30 11:31 G 27460062.86 27460062.98 27460063.12 0.0143 0.0087

Jupiter 70471-02-23 14:24 G 27460117.96 27460118.10 27460118.24 0.0544 0.0124

Uranus 70471-03-28 17:31 G 27460151.08 27460151.23 27460151.37 0.0143 0.0061

Uranus 70471-06-24 23:17 G 27460239.31 27460239.47 27460239.63 0.0143 0.0035

Earth 70471-08-20 10:05 G 27460295.84 27460295.92 27460295.99 0.2696 0.2118

Moon 70471-08-20 10:05 G 27460295.85 27460295.92 27460296.00 0.2689 0.2149 *

Uranus 70471-09-21 05:03 G 27460327.54 27460327.71 27460327.87 0.0142 0.0009

Uranus 70471-12-18 10:48 G 27460415.79 27460415.95 27460416.12 0.0142 0.0017

Uranus 70472-03-15 16:48 G 27460504.04 27460504.20 27460504.36 0.0142 0.0044

Uranus 70472-06-11 22:34 G 27460592.30 27460592.44 27460592.59 0.0142 0.0070

Uranus 70472-09-08 04:19 G 27460680.57 27460680.68 27460680.82 0.0142 0.0098

Uranus 70472-12-05 10:19 G 27460768.87 27460768.93 27460769.03 0.0142 0.0124

Moon 70474-02-17 09:36 G 27461207.76 27461207.90 27461208.03 0.2630 0.0535

Earth 70474-02-17 10:05 G 27461207.79 27461207.92 27461208.05 0.2636 0.0571 *

Mars 70477-01-01 03:36 G 27462256.55 27462256.65 27462256.74 0.1862 0.1245

Jupiter 70477-01-06 17:46 G 27462262.08 27462262.24 27462262.39 0.0484 0.0050

Venus 70477-08-25 21:07 G 27462493.27 27462493.38 27462493.49 0.3695 0.0453

Saturn 70478-03-19 14:53 G 27462699.03 27462699.12 27462699.23 0.0281 0.0209

Saturn 70478-06-16 06:43 G 27462787.63 27462787.78 27462787.93 0.0282 0.0060

Earth 70478-08-13 01:12 G 27462845.45 27462845.55 27462845.64 0.2699 0.1649

Moon 70478-08-13 01:41 G 27462845.48 27462845.57 27462845.67 0.2704 0.1664 *

Saturn 70478-09-12 22:48 G 27462876.30 27462876.45 27462876.60 0.0282 0.0093

Saturn 70478-12-10 15:07 G 27462965.06 27462965.13 27462965.21 0.0282 0.0249

Jupiter 70482-12-12 14:53 G 27464428.01 27464428.12 27464428.23 0.0544 0.0358

Venus 70483-03-11 15:51 G 27464517.10 27464517.16 27464517.23 0.3693 0.2969

Jupiter 70483-03-12 08:10 G 27464517.79 27464517.84 27464517.89 0.0545 0.0510

Mars 70486-05-24 09:07 G 27465686.76 27465686.88 27465687.01 0.1857 0.0185

Moon 70487-02-20 09:07 G 27465958.79 27465958.88 27465958.97 0.2633 0.1996

Earth 70487-02-20 10:05 G 27465958.85 27465958.92 27465959.00 0.2636 0.2172 *

Mars 70487-04-08 18:00 G 27466006.13 27466006.25 27466006.37 0.1663 0.0897

Jupiter 70488-10-25 19:55 G 27466572.19 27466572.33 27466572.47 0.0484 0.0208

Jupiter 70489-01-23 10:34 G 27466661.90 27466661.94 27466661.99 0.0484 0.0459

Venus 70490-04-06 17:46 G 27467100.14 27467100.24 27467100.34 0.3676 0.2258

Earth 70491-08-15 22:05 G 27467596.30 27467596.42 27467596.54 0.2698 0.0276

Moon 70491-08-15 23:03 G 27467596.34 27467596.46 27467596.58 0.2698 0.0104 *

Saturn 70492-10-25 10:34 G 27468032.81 27468032.94 27468033.07 0.0277 0.0156

Saturn 70493-01-22 01:41 G 27468121.42 27468121.57 27468121.72 0.0277 0.0013

Saturn 70493-04-20 16:19 G 27468210.05 27468210.18 27468210.32 0.0277 0.0128

Saturn 70493-07-18 06:43 G 27468298.75 27468298.78 27468298.83 0.0277 0.0264

Earth 70494-02-12 16:48 G 27468508.12 27468508.20 27468508.27 0.2634 0.2153

Moon 70494-02-12 17:31 G 27468508.15 27468508.23 27468508.32 0.2629 0.1984 *

Jupiter 70494-12-29 09:51 G 27468827.80 27468827.91 27468828.03 0.0545 0.0306

Mars 70495-10-14 15:07 G 27469117.02 27469117.13 27469117.24 0.1851 0.0872

Venus 70495-10-21 15:36 G 27469124.05 27469124.15 27469124.25 0.3677 0.2045

Mars 70496-08-28 23:46 G 27469436.35 27469436.49 27469436.64 0.1668 0.0074

Jupiter 70500-08-14 21:51 G 27470882.31 27470882.41 27470882.51 0.0484 0.0371

Jupiter 70500-11-12 12:00 G 27470971.88 27470972.00 27470972.13 0.0484 0.0288

Earth 70504-08-18 18:43 G 27472347.17 27472347.28 27472347.39 0.2697 0.1068

Moon 70504-08-18 19:27 G 27472347.20 27472347.31 27472347.42 0.2692 0.1096 *

Mars 70505-03-06 21:51 G 27472547.41 27472547.41 27472547.42 0.1846 0.1839

Mars 70506-01-20 05:17 G 27472866.59 27472866.72 27472866.84 0.1672 0.0813

Jupiter 70506-10-18 11:46 G 27473137.85 27473137.99 27473138.13 0.0545 0.0101

Earth 70507-02-16 16:05 G 27473259.04 27473259.17 27473259.30 0.2635 0.0670

Moon 70507-02-16 16:19 G 27473259.05 27473259.18 27473259.31 0.2629 0.0682 *

Saturn 70507-08-07 14:53 G 27473431.07 27473431.12 27473431.19 0.0282 0.0259

Saturn 70507-11-04 06:29 G 27473519.63 27473519.77 27473519.92 0.0282 0.0112

Saturn 70508-01-31 22:34 G 27473608.28 27473608.44 27473608.59 0.0282 0.0039

Saturn 70508-04-29 14:39 G 27473697.00 27473697.11 27473697.23 0.0282 0.0194

Pluto 70511-03-21 15:36 G 27474753.06 27474753.15 27474753.26 0.0080 0.0062

Pluto 70511-06-17 17:31 G 27474841.09 27474841.23 27474841.37 0.0079 0.0041

Pluto 70511-09-13 19:12 G 27474929.15 27474929.30 27474929.46 0.0079 0.0020

Pluto 70511-12-10 21:07 G 27475017.22 27475017.38 27475017.54 0.0079 0.0002

Pluto 70512-03-07 22:48 G 27475105.30 27475105.45 27475105.61 0.0079 0.0023

Pluto 70512-06-04 00:15 G 27475193.39 27475193.51 27475193.66 0.0079 0.0044

Pluto 70512-08-31 01:55 G 27475281.51 27475281.58 27475281.70 0.0079 0.0065

Jupiter 70512-08-31 14:10 G 27475281.93 27475282.09 27475282.24 0.0484 0.0123

Uranus 70513-10-11 18:00 G 27475688.21 27475688.25 27475688.30 0.0135 0.0128

Uranus 70514-01-07 22:19 G 27475776.34 27475776.43 27475776.53 0.0135 0.0107

Uranus 70514-04-06 02:39 G 27475864.50 27475864.61 27475864.73 0.0136 0.0086

Uranus 70514-07-03 06:43 G 27475952.66 27475952.78 27475952.92 0.0136 0.0066

Uranus 70514-09-29 11:03 G 27476040.82 27476040.96 27476041.11 0.0136 0.0045

Uranus 70514-12-26 15:22 G 27476128.99 27476129.14 27476129.29 0.0136 0.0024

Uranus 70515-03-24 19:27 G 27476217.16 27476217.31 27476217.46 0.0136 0.0005

Uranus 70515-06-20 23:31 G 27476305.34 27476305.48 27476305.63 0.0136 0.0018

Uranus 70515-09-17 03:36 G 27476393.52 27476393.65 27476393.80 0.0136 0.0038

Uranus 70515-12-14 07:41 G 27476481.70 27476481.82 27476481.96 0.0136 0.0058

Uranus 70516-03-11 11:46 G 27476569.88 27476569.99 27476570.12 0.0136 0.0078

Uranus 70516-06-07 15:51 G 27476658.07 27476658.16 27476658.27 0.0136 0.0098

Mars 70516-07-03 03:51 G 27476683.57 27476683.66 27476683.74 0.1862 0.1377

Uranus 70516-09-03 19:41 G 27476746.26 27476746.32 27476746.40 0.0136 0.0118

Earth 70517-08-21 15:07 G 27477098.07 27477098.13 27477098.19 0.2696 0.2359

Moon 70517-08-21 15:22 G 27477098.08 27477098.14 27477098.19 0.2688 0.2370 *

Jupiter 70518-08-06 12:43 G 27477447.89 27477448.03 27477448.18 0.0544 0.0119

Moon 70520-02-19 15:07 G 27478010.00 27478010.13 27478010.26 0.2630 0.0803

Earth 70520-02-19 15:51 G 27478010.03 27478010.16 27478010.29 0.2636 0.0871 *

Saturn 70522-03-15 11:17 G 27478764.87 27478764.97 27478765.08 0.0278 0.0200

Saturn 70522-06-12 02:39 G 27478853.46 27478853.61 27478853.76 0.0278 0.0055

Saturn 70522-09-08 17:31 G 27478942.09 27478942.23 27478942.38 0.0277 0.0087

Saturn 70522-12-06 08:10 G 27479030.75 27479030.84 27479030.92 0.0277 0.0225

Jupiter 70524-06-19 15:36 G 27479592.00 27479592.15 27479592.31 0.0484 0.0049

Earth 70524-08-14 06:29 G 27479647.66 27479647.77 27479647.87 0.2698 0.1387

Moon 70524-08-14 07:12 G 27479647.69 27479647.80 27479647.90 0.2702 0.1246 *

Mars 70525-11-23 09:22 G 27480113.76 27480113.89 27480114.01 0.1857 0.0291

Mars 70526-10-08 18:29 G 27480433.15 27480433.27 27480433.38 0.1663 0.1024

Venus 70528-09-17 00:29 G 27481142.44 27481142.52 27481142.60 0.3695 0.2677

Jupiter 70530-05-25 13:27 G 27481757.95 27481758.06 27481758.18 0.0544 0.0345

Jupiter 70530-08-23 06:43 G 27481847.75 27481847.78 27481847.82 0.0544 0.0520

Moon 70533-02-21 14:39 G 27482761.06 27482761.11 27482761.17 0.2635 0.2388

Earth 70533-02-21 15:51 G 27482761.12 27482761.16 27482761.21 0.2637 0.2467 *

Venus 70534-04-02 19:27 G 27483166.20 27483166.31 27483166.42 0.3694 0.0842

Mars 70535-04-15 15:22 G 27483544.03 27483544.14 27483544.26 0.1851 0.0740

Mars 70536-02-29 00:00 G 27483863.36 27483863.50 27483863.65 0.1668 0.0192

Jupiter 70536-04-07 17:46 G 27483902.10 27483902.24 27483902.38 0.0484 0.0210

Jupiter 70536-07-06 08:24 G 27483991.80 27483991.85 27483991.90 0.0484 0.0457

Neptune 70536-09-30 17:03 G 27484078.18 27484078.21 27484078.28 0.0088 0.0084

Neptune 70536-12-27 19:41 G 27484166.24 27484166.32 27484166.41 0.0088 0.0075

Saturn 70537-03-23 09:36 G 27484251.77 27484251.90 27484252.04 0.0281 0.0136

Neptune 70537-03-25 21:36 G 27484254.31 27484254.40 27484254.53 0.0088 0.0067

Saturn 70537-06-20 01:27 G 27484340.41 27484340.56 27484340.72 0.0282 0.0016

Neptune 70537-06-22 00:15 G 27484342.39 27484342.51 27484342.64 0.0088 0.0058

Earth 70537-08-17 03:22 G 27484398.51 27484398.64 27484398.76 0.2697 0.0103

Moon 70537-08-17 04:19 G 27484398.55 27484398.68 27484398.80 0.2698 0.0106 *

Saturn 70537-09-16 17:46 G 27484429.12 27484429.24 27484429.37 0.0282 0.0168

Neptune 70537-09-18 02:39 G 27484430.48 27484430.61 27484430.75 0.0088 0.0049

Neptune 70537-12-15 04:48 G 27484518.56 27484518.70 27484518.86 0.0088 0.0041

Neptune 70538-03-13 07:12 G 27484606.65 27484606.80 27484606.96 0.0088 0.0032

Neptune 70538-06-09 09:36 G 27484694.75 27484694.90 27484695.07 0.0088 0.0023

Neptune 70538-09-05 12:00 G 27484782.84 27484783.00 27484783.17 0.0088 0.0014

Neptune 70538-12-02 14:24 G 27484870.94 27484871.10 27484871.27 0.0088 0.0006

Neptune 70539-02-28 16:48 G 27484959.04 27484959.20 27484959.37 0.0088 0.0004

Neptune 70539-05-27 19:12 G 27485047.14 27485047.30 27485047.47 0.0088 0.0013

Neptune 70539-08-23 21:36 G 27485135.24 27485135.40 27485135.57 0.0088 0.0022

Neptune 70539-11-19 23:46 G 27485223.35 27485223.49 27485223.66 0.0088 0.0031

Earth 70540-02-14 22:19 G 27485310.34 27485310.43 27485310.52 0.2634 0.1876

Moon 70540-02-14 23:17 G 27485310.37 27485310.47 27485310.56 0.2629 0.1874 *

Neptune 70540-02-16 02:10 G 27485311.46 27485311.59 27485311.76 0.0088 0.0040

Neptune 70540-05-14 04:34 G 27485399.57 27485399.69 27485399.85 0.0088 0.0049

Neptune 70540-08-10 07:12 G 27485487.68 27485487.80 27485487.94 0.0088 0.0058

Neptune 70540-11-06 09:36 G 27485575.80 27485575.90 27485576.02 0.0088 0.0067

Neptune 70541-02-02 12:00 G 27485663.93 27485664.00 27485664.10 0.0088 0.0076

Neptune 70541-05-01 14:39 G 27485752.08 27485752.11 27485752.16 0.0088 0.0085

Jupiter 70542-06-11 07:41 G 27486157.70 27486157.82 27486157.94 0.0545 0.0296

Mars 70544-09-04 21:51 G 27486974.37 27486974.41 27486974.45 0.1845 0.1734

Mars 70545-07-21 05:31 G 27487293.60 27487293.73 27487293.87 0.1672 0.0682

Venus 70546-11-12 16:48 G 27487773.07 27487773.20 27487773.32 0.3676 0.0752

Jupiter 70548-01-25 20:10 G 27488212.24 27488212.34 27488212.44 0.0484 0.0366

Jupiter 70548-04-24 10:19 G 27488301.81 27488301.93 27488302.06 0.0484 0.0292

Earth 70550-08-20 00:00 G 27489149.39 27489149.50 27489149.60 0.2697 0.1316

Moon 70550-08-20 00:29 G 27489149.42 27489149.52 27489149.62 0.2691 0.1432 *

Saturn 70551-08-02 13:55 G 27489496.99 27489497.08 27489497.16 0.0277 0.0229

Saturn 70551-10-30 05:03 G 27489585.57 27489585.71 27489585.86 0.0277 0.0085

Saturn 70552-01-26 20:10 G 27489674.19 27489674.34 27489674.49 0.0277 0.0058

Saturn 70552-04-24 10:48 G 27489762.84 27489762.95 27489763.05 0.0277 0.0196

Venus 70552-05-28 14:39 G 27489797.10 27489797.11 27489797.12 0.3678 0.3656

Moon 70553-02-16 21:36 G 27490061.26 27490061.40 27490061.54 0.2628 0.0324

Earth 70553-02-16 21:36 G 27490061.27 27490061.40 27490061.54 0.2635 0.0390 *

Jupiter 70554-03-30 09:07 G 27490467.74 27490467.88 27490468.02 0.0545 0.0086

Uranus 70554-07-28 07:55 G 27490587.77 27490587.83 27490587.91 0.0143 0.0128

Uranus 70554-10-24 13:41 G 27490675.96 27490676.07 27490676.18 0.0143 0.0103

Mars 70554-12-11 10:48 G 27490723.90 27490723.95 27490724.00 0.1677 0.1574

Uranus 70555-01-20 19:12 G 27490764.17 27490764.30 27490764.44 0.0143 0.0078

Uranus 70555-04-19 00:58 G 27490852.39 27490852.54 27490852.70 0.0143 0.0052

Uranus 70555-07-16 06:58 G 27490940.62 27490940.79 27490940.95 0.0143 0.0026

Uranus 70555-10-12 12:43 G 27491028.86 27491029.03 27491029.19 0.0142 0.0001

Mars 70556-01-02 03:36 G 27491110.58 27491110.65 27491110.73 0.1862 0.1483

Uranus 70556-01-08 18:29 G 27491117.11 27491117.27 27491117.44 0.0142 0.0027

Uranus 70556-04-06 00:15 G 27491205.36 27491205.51 27491205.67 0.0142 0.0054

Uranus 70556-07-03 06:15 G 27491293.63 27491293.76 27491293.90 0.0142 0.0080

Uranus 70556-09-29 12:29 G 27491381.91 27491382.02 27491382.13 0.0142 0.0107

Uranus 70556-12-26 18:15 G 27491470.21 27491470.26 27491470.32 0.0142 0.0134

Moon 70557-08-12 14:39 G 27491699.07 27491699.11 27491699.16 0.2706 0.2494

Earth 70557-08-12 14:39 G 27491699.07 27491699.11 27491699.15 0.2699 0.2529 *

Jupiter 70560-02-11 12:00 G 27492611.85 27492612.00 27492612.16 0.0484 0.0124

Moon 70563-08-22 20:24 G 27493900.32 27493900.35 27493900.38 0.2689 0.2574

Earth 70563-08-22 20:10 G 27493900.32 27493900.34 27493900.37 0.2695 0.2601 *

Mars 70565-05-24 09:36 G 27494540.77 27494540.90 27494541.02 0.1857 0.0421

Jupiter 70566-01-16 10:48 G 27494777.81 27494777.95 27494778.09 0.0545 0.0122

Moon 70566-02-19 20:53 G 27494812.24 27494812.37 27494812.49 0.2630 0.1080

Earth 70566-02-19 21:36 G 27494812.27 27494812.40 27494812.52 0.2636 0.1174 *

Mars 70566-04-08 18:43 G 27494860.18 27494860.28 27494860.38 0.1663 0.1145

Saturn 70566-08-10 09:36 G 27494983.79 27494983.90 27494984.02 0.0282 0.0186

Saturn 70566-11-07 01:27 G 27495072.41 27495072.56 27495072.71 0.0282 0.0037

Saturn 70567-02-03 17:31 G 27495161.09 27495161.23 27495161.37 0.0282 0.0115

Saturn 70567-05-03 09:51 G 27495249.87 27495249.91 27495249.95 0.0282 0.0271

Earth 70570-08-15 11:31 G 27496449.87 27496449.98 27496450.10 0.2698 0.1127

Moon 70570-08-15 12:29 G 27496449.91 27496450.02 27496450.13 0.2701 0.1084 *

Jupiter 70571-11-30 14:10 G 27496921.93 27496922.09 27496922.24 0.0484 0.0040

Mars 70574-10-14 15:36 G 27497971.03 27497971.15 27497971.27 0.1851 0.0623

Mars 70575-08-30 00:29 G 27498290.38 27498290.52 27498290.66 0.1668 0.0311

Jupiter 70577-11-04 12:00 G 27499087.88 27499088.00 27499088.11 0.0544 0.0339

Jupiter 70578-02-02 05:17 G 27499177.69 27499177.72 27499177.75 0.0544 0.0527

Saturn 70580-12-19 14:10 G 27500229.09 27500229.09 27500229.11 0.0278 0.0277

Saturn 70581-03-18 05:46 G 27500317.60 27500317.74 27500317.88 0.0278 0.0130

Saturn 70581-06-14 20:53 G 27500406.22 27500406.37 27500406.52 0.0277 0.0014

Saturn 70581-09-11 11:31 G 27500494.86 27500494.98 27500495.11 0.0277 0.0154

Earth 70583-08-18 08:24 G 27501200.73 27501200.85 27501200.98 0.2697 0.0257

Moon 70583-08-18 09:22 G 27501200.77 27501200.89 27501201.01 0.2697 0.0412 *

Jupiter 70583-09-18 15:51 G 27501232.02 27501232.16 27501232.30 0.0484 0.0208

Jupiter 70583-12-17 06:29 G 27501321.73 27501321.77 27501321.82 0.0484 0.0459

Mars 70584-03-05 21:51 G 27501401.35 27501401.41 27501401.47 0.1846 0.1612

Mars 70585-01-19 06:00 G 27501720.61 27501720.75 27501720.89 0.1672 0.0550

Venus 70585-04-23 22:48 G 27501815.34 27501815.45 27501815.56 0.3695 0.1367

Earth 70586-02-15 03:51 G 27502112.55 27502112.66 27502112.77 0.2634 0.1601

Moon 70586-02-15 04:34 G 27502112.58 27502112.69 27502112.80 0.2629 0.1442 *

Jupiter 70589-11-21 06:29 G 27503487.65 27503487.77 27503487.89 0.0544 0.0310

Venus 70590-11-07 17:46 G 27503839.14 27503839.24 27503839.33 0.3694 0.2112

Mars 70594-06-11 11:03 G 27505150.89 27505150.96 27505151.03 0.1677 0.1449

Mars 70595-07-03 03:51 G 27505537.60 27505537.66 27505537.72 0.1862 0.1613

Jupiter 70595-07-07 18:00 G 27505542.15 27505542.25 27505542.35 0.0485 0.0368

Jupiter 70595-10-05 08:24 G 27505631.72 27505631.85 27505631.97 0.0484 0.0291

Saturn 70595-12-28 12:29 G 27505715.93 27505716.02 27505716.12 0.0281 0.0213

Saturn 70596-03-26 04:19 G 27505804.53 27505804.68 27505804.83 0.0282 0.0065

Saturn 70596-06-22 20:10 G 27505893.19 27505893.34 27505893.49 0.0282 0.0087

Earth 70596-08-20 05:03 G 27505951.61 27505951.71 27505951.81 0.2696 0.1564

Moon 70596-08-20 05:31 G 27505951.64 27505951.73 27505951.83 0.2690 0.1543 *

Saturn 70596-09-19 12:29 G 27505981.95 27505982.02 27505982.11 0.0282 0.0243

Uranus 70597-11-01 01:27 G 27506389.49 27506389.56 27506389.63 0.0135 0.0121

Venus 70597-12-03 18:00 G 27506422.21 27506422.25 27506422.30 0.3675 0.3423

Uranus 70598-01-28 05:46 G 27506477.64 27506477.74 27506477.84 0.0135 0.0100

Uranus 70598-04-26 09:51 G 27506565.79 27506565.91 27506566.04 0.0135 0.0079

Uranus 70598-07-23 14:10 G 27506653.96 27506654.09 27506654.23 0.0136 0.0058

Uranus 70598-10-19 18:29 G 27506742.12 27506742.27 27506742.41 0.0136 0.0038

Uranus 70599-01-15 22:34 G 27506830.29 27506830.44 27506830.59 0.0136 0.0017

Moon 70599-02-18 03:07 G 27506863.49 27506863.63 27506863.77 0.2628 0.0193

Earth 70599-02-18 03:22 G 27506863.50 27506863.64 27506863.77 0.2635 0.0099 *

Uranus 70599-04-14 02:53 G 27506918.47 27506918.62 27506918.77 0.0136 0.0005

Uranus 70599-07-11 06:58 G 27507006.64 27507006.79 27507006.94 0.0136 0.0024

Uranus 70599-10-07 11:03 G 27507094.82 27507094.96 27507095.10 0.0136 0.0044

Uranus 70600-01-03 14:53 G 27507183.00 27507183.12 27507183.26 0.0136 0.0065

Uranus 70600-04-01 18:58 G 27507271.19 27507271.29 27507271.41 0.0136 0.0085

Uranus 70600-06-28 23:17 G 27507359.38 27507359.47 27507359.56 0.0136 0.0105

Uranus 70600-09-25 03:07 G 27507447.58 27507447.63 27507447.69 0.0136 0.0124

Jupiter 70601-09-10 06:58 G 27507797.64 27507797.79 27507797.93 0.0544 0.0078

Venus 70603-06-20 15:51 G 27508446.03 27508446.16 27508446.28 0.3677 0.0816

Earth 70603-08-14 19:55 G 27508501.26 27508501.33 27508501.39 0.2699 0.2265

Moon 70603-08-14 20:10 G 27508501.27 27508501.34 27508501.41 0.2705 0.2230 *

Mars 70604-11-23 09:22 G 27508967.77 27508967.89 27508968.02 0.1857 0.0534

Mars 70605-10-08 18:58 G 27509287.20 27509287.29 27509287.39 0.1663 0.1266

Jupiter 70607-07-25 10:19 G 27509941.78 27509941.93 27509942.09 0.0484 0.0129

Saturn 70610-08-06 08:24 G 27511049.73 27511049.85 27511049.98 0.0277 0.0157

Saturn 70610-11-02 23:31 G 27511138.33 27511138.48 27511138.64 0.0277 0.0016

Saturn 70611-01-30 14:24 G 27511226.97 27511227.10 27511227.24 0.0277 0.0126

Saturn 70611-04-29 04:48 G 27511315.66 27511315.70 27511315.75 0.0277 0.0263

Moon 70612-02-22 02:24 G 27511614.48 27511614.60 27511614.71 0.2632 0.1430

Earth 70612-02-22 03:07 G 27511614.52 27511614.63 27511614.74 0.2636 0.1466 *

Jupiter 70613-06-29 08:10 G 27512107.70 27512107.84 27512107.98 0.0544 0.0137

Mars 70614-04-15 15:22 G 27512398.02 27512398.14 27512398.27 0.1851 0.0514

Mars 70615-03-01 00:58 G 27512717.40 27512717.54 27512717.68 0.1667 0.0446

Earth 70616-08-16 16:48 G 27513252.09 27513252.20 27513252.32 0.2698 0.0865

Moon 70616-08-16 17:46 G 27513252.12 27513252.24 27513252.36 0.2701 0.0727 *

Neptune 70618-04-23 13:12 G 27513867.01 27513867.05 27513867.13 0.0090 0.0083

Neptune 70618-07-20 15:22 G 27513955.07 27513955.14 27513955.24 0.0090 0.0074

Neptune 70618-10-16 17:31 G 27514043.13 27514043.23 27514043.34 0.0090 0.0065

Neptune 70619-01-12 19:27 G 27514131.20 27514131.31 27514131.44 0.0090 0.0056

Moon 70619-02-14 11:17 G 27514163.97 27514163.97 27514163.98 0.2630 0.2624

Neptune 70619-04-10 21:22 G 27514219.27 27514219.39 27514219.53 0.0090 0.0048

Jupiter 70619-05-13 12:15 G 27514251.85 27514252.01 27514252.17 0.0484 0.0038

Neptune 70619-07-07 23:31 G 27514307.35 27514307.48 27514307.62 0.0090 0.0039

Neptune 70619-10-04 01:27 G 27514395.42 27514395.56 27514395.70 0.0090 0.0030

Neptune 70619-12-31 03:22 G 27514483.50 27514483.64 27514483.79 0.0089 0.0022

Neptune 70620-03-28 05:17 G 27514571.58 27514571.72 27514571.87 0.0089 0.0014

Neptune 70620-06-24 07:12 G 27514659.65 27514659.80 27514659.95 0.0089 0.0005

Neptune 70620-09-20 09:07 G 27514747.73 27514747.88 27514748.03 0.0089 0.0004

Neptune 70620-12-17 11:03 G 27514835.81 27514835.96 27514836.11 0.0089 0.0012

Neptune 70621-03-15 12:58 G 27514923.90 27514924.04 27514924.19 0.0089 0.0021

Neptune 70621-06-11 14:53 G 27515011.98 27515012.12 27515012.26 0.0089 0.0029

Neptune 70621-09-07 16:34 G 27515100.06 27515100.19 27515100.33 0.0089 0.0038

Neptune 70621-12-04 18:29 G 27515188.15 27515188.27 27515188.40 0.0089 0.0046

Neptune 70622-03-02 20:24 G 27515276.24 27515276.35 27515276.47 0.0089 0.0054

Neptune 70622-05-29 22:05 G 27515364.33 27515364.42 27515364.54 0.0089 0.0062

Neptune 70622-08-26 00:00 G 27515452.42 27515452.50 27515452.60 0.0089 0.0070

Neptune 70622-11-22 01:55 G 27515540.52 27515540.58 27515540.65 0.0089 0.0078

Neptune 70623-02-18 03:36 G 27515628.63 27515628.65 27515628.70 0.0089 0.0087

Mars 70623-09-05 22:05 G 27515828.35 27515828.42 27515828.49 0.1846 0.1489

Mars 70624-07-21 06:29 G 27516147.63 27516147.77 27516147.91 0.1672 0.0425

Jupiter 70625-04-17 09:51 G 27516417.80 27516417.91 27516418.02 0.0544 0.0346

Saturn 70625-05-17 12:43 G 27516447.98 27516448.03 27516448.09 0.0282 0.0261

Jupiter 70625-07-16 03:07 G 27516507.60 27516507.63 27516507.67 0.0545 0.0525

Saturn 70625-08-14 04:19 G 27516536.54 27516536.68 27516536.82 0.0282 0.0115

Saturn 70625-11-10 20:10 G 27516625.18 27516625.34 27516625.49 0.0282 0.0036

Saturn 70626-02-07 12:15 G 27516713.90 27516714.01 27516714.13 0.0282 0.0189

Earth 70629-08-19 13:41 G 27518002.95 27518003.07 27518003.19 0.2697 0.0498

Moon 70629-08-19 14:39 G 27518002.99 27518003.11 27518003.23 0.2695 0.0525 *

Jupiter 70631-03-01 14:24 G 27518561.96 27518562.10 27518562.24 0.0484 0.0199

Jupiter 70631-05-30 05:03 G 27518651.67 27518651.71 27518651.75 0.0484 0.0466

Earth 70632-02-17 09:22 G 27518914.78 27518914.89 27518915.01 0.2634 0.1320

Moon 70632-02-17 09:51 G 27518914.80 27518914.91 27518915.03 0.2629 0.1337 *

Mars 70633-12-11 11:31 G 27519577.89 27519577.98 27519578.07 0.1677 0.1311

Mars 70635-01-02 04:05 G 27519964.63 27519964.67 27519964.71 0.1862 0.1741

Venus 70636-05-16 01:55 G 27520464.56 27520464.58 27520464.60 0.3696 0.3637

Jupiter 70637-05-04 04:48 G 27520817.59 27520817.70 27520817.82 0.0544 0.0318

Uranus 70638-08-18 15:36 G 27521289.07 27521289.15 27521289.24 0.0143 0.0119

Uranus 70638-11-14 21:07 G 27521377.27 27521377.38 27521377.51 0.0143 0.0094

Uranus 70639-02-11 02:53 G 27521465.48 27521465.62 27521465.77 0.0143 0.0068

Uranus 70639-05-10 08:39 G 27521553.71 27521553.86 27521554.02 0.0143 0.0042

Uranus 70639-08-06 14:24 G 27521641.94 27521642.10 27521642.27 0.0143 0.0017

Uranus 70639-11-02 20:24 G 27521730.18 27521730.35 27521730.51 0.0143 0.0010

Saturn 70639-12-24 08:39 G 27521781.76 27521781.86 27521781.96 0.0277 0.0207

Uranus 70640-01-30 02:10 G 27521818.43 27521818.59 27521818.75 0.0142 0.0037

Saturn 70640-03-22 00:00 G 27521870.35 27521870.50 27521870.65 0.0277 0.0062

Uranus 70640-04-27 07:55 G 27521906.69 27521906.83 27521906.99 0.0142 0.0063

Saturn 70640-06-18 14:53 G 27521958.98 27521959.12 27521959.27 0.0277 0.0080

Uranus 70640-07-24 14:10 G 27521994.96 27521995.09 27521995.22 0.0142 0.0090

Saturn 70640-09-15 05:31 G 27522047.64 27522047.73 27522047.82 0.0277 0.0218

Uranus 70640-10-20 19:55 G 27522083.24 27522083.33 27522083.43 0.0142 0.0117

Venus 70641-11-29 21:07 G 27522488.26 27522488.38 27522488.49 0.3695 0.0080

Earth 70642-08-22 10:19 G 27522753.84 27522753.93 27522754.02 0.2696 0.1809

Moon 70642-08-22 10:48 G 27522753.86 27522753.95 27522754.03 0.2690 0.1927 *

Jupiter 70642-12-18 16:19 G 27522872.08 27522872.18 27522872.28 0.0485 0.0365

Jupiter 70643-03-18 06:29 G 27522961.64 27522961.77 27522961.89 0.0484 0.0294

Mars 70644-05-24 09:36 G 27523394.78 27523394.90 27523395.02 0.1857 0.0654

Moon 70645-02-19 08:39 G 27523665.72 27523665.86 27523666.00 0.2628 0.0253

Earth 70645-02-19 08:53 G 27523665.74 27523665.87 27523666.01 0.2635 0.0191 *

Mars 70645-04-08 19:27 G 27523714.23 27523714.31 27523714.39 0.1663 0.1389

Venus 70647-06-15 15:51 G 27524512.12 27524512.16 27524512.21 0.3694 0.3357

Jupiter 70649-02-20 06:00 G 27525127.61 27525127.75 27525127.89 0.0544 0.0097

Earth 70649-08-15 00:58 G 27525303.46 27525303.54 27525303.63 0.2699 0.2000

Moon 70649-08-15 01:41 G 27525303.49 27525303.57 27525303.65 0.2704 0.1979 *

Mars 70653-10-14 15:36 G 27526825.03 27526825.15 27526825.28 0.1851 0.0386

Venus 70654-07-11 17:03 G 27527095.10 27527095.21 27527095.31 0.3675 0.1919

Mars 70654-08-30 01:12 G 27527144.42 27527144.55 27527144.69 0.1668 0.0561

Saturn 70655-01-01 06:29 G 27527268.64 27527268.77 27527268.91 0.0282 0.0146

Jupiter 70655-01-04 08:24 G 27527271.70 27527271.85 27527272.00 0.0484 0.0129

Saturn 70655-03-30 22:19 G 27527357.28 27527357.43 27527357.59 0.0282 0.0005

Saturn 70655-06-27 14:24 G 27527445.98 27527446.10 27527446.24 0.0282 0.0157

Moon 70658-02-22 07:55 G 27528416.72 27528416.83 27528416.94 0.2633 0.1590

Earth 70658-02-22 08:53 G 27528416.77 27528416.87 27528416.97 0.2636 0.1771 *

Venus 70660-01-25 14:53 G 27529119.02 27529119.12 27529119.21 0.3677 0.2391

Jupiter 70660-12-09 06:00 G 27529437.61 27529437.75 27529437.90 0.0544 0.0142

Earth 70662-08-17 22:05 G 27530054.30 27530054.42 27530054.54 0.2698 0.0606

Moon 70662-08-17 23:03 G 27530054.34 27530054.46 27530054.58 0.2701 0.0535 *

Mars 70663-03-06 22:05 G 27530255.33 27530255.42 27530255.50 0.1845 0.1379

Mars 70664-01-20 06:43 G 27530574.64 27530574.78 27530574.93 0.1672 0.0294

Earth 70665-02-14 15:51 G 27530966.12 27530966.16 27530966.20 0.2633 0.2502

Moon 70665-02-14 16:48 G 27530966.15 27530966.20 27530966.25 0.2631 0.2426 *

Jupiter 70666-10-23 10:34 G 27531581.79 27531581.94 27531582.10 0.0484 0.0032

Pluto 70668-11-19 18:43 G 27532340.23 27532340.28 27532340.36 0.0064 0.0059

Pluto 70669-02-15 19:41 G 27532428.23 27532428.32 27532428.43 0.0065 0.0048

Saturn 70669-05-12 11:31 G 27532513.90 27532513.98 27532514.06 0.0277 0.0233

Pluto 70669-05-14 20:10 G 27532516.23 27532516.34 27532516.48 0.0065 0.0038

Saturn 70669-08-09 02:53 G 27532602.47 27532602.62 27532602.77 0.0277 0.0088

Pluto 70669-08-10 21:07 G 27532604.25 27532604.38 27532604.53 0.0065 0.0027

Saturn 70669-11-05 17:46 G 27532691.09 27532691.24 27532691.39 0.0277 0.0055

Pluto 70669-11-06 22:05 G 27532692.27 27532692.42 27532692.57 0.0065 0.0016

Saturn 70670-02-02 08:24 G 27532779.75 27532779.85 27532779.96 0.0277 0.0193

Pluto 70670-02-02 22:48 G 27532780.30 27532780.45 27532780.61 0.0065 0.0005

Pluto 70670-05-01 23:31 G 27532868.33 27532868.48 27532868.64 0.0065 0.0006

Pluto 70670-07-29 00:15 G 27532956.37 27532956.51 27532956.66 0.0065 0.0017

Pluto 70670-10-25 00:43 G 27533044.41 27533044.53 27533044.68 0.0065 0.0028

Pluto 70671-01-21 01:55 G 27533132.46 27533132.58 27533132.70 0.0065 0.0039

Pluto 70671-04-19 02:24 G 27533220.51 27533220.60 27533220.71 0.0065 0.0050

Pluto 70671-07-16 03:07 G 27533308.59 27533308.63 27533308.70 0.0065 0.0061

Jupiter 70672-09-27 07:12 G 27533747.69 27533747.80 27533747.91 0.0544 0.0359

Jupiter 70672-12-26 00:43 G 27533837.49 27533837.53 27533837.58 0.0545 0.0512

Mars 70673-06-11 12:00 G 27534004.90 27534005.00 27534005.10 0.1677 0.1177

Mars 70674-07-03 04:05 G 27534391.65 27534391.67 27534391.68 0.1862 0.1848

Earth 70675-08-20 18:58 G 27534805.17 27534805.29 27534805.41 0.2697 0.0748

Moon 70675-08-20 19:41 G 27534805.21 27534805.32 27534805.44 0.2693 0.0879 *

Earth 70678-02-17 15:07 G 27535717.00 27535717.13 27535717.25 0.2634 0.1041

Moon 70678-02-17 15:22 G 27535717.01 27535717.14 27535717.26 0.2628 0.0953 *

Jupiter 70678-08-11 12:43 G 27535891.88 27535892.03 27535892.17 0.0484 0.0194

Jupiter 70678-11-09 03:07 G 27535981.60 27535981.63 27535981.67 0.0483 0.0471

Uranus 70681-08-26 04:34 G 27537002.67 27537002.69 27537002.72 0.0135 0.0133

Uranus 70681-11-22 08:53 G 27537090.79 27537090.87 27537090.96 0.0135 0.0112

Uranus 70682-02-18 13:12 G 27537178.95 27537179.05 27537179.17 0.0135 0.0091

Uranus 70682-05-17 17:31 G 27537267.11 27537267.23 27537267.36 0.0135 0.0071

Uranus 70682-08-13 21:51 G 27537355.27 27537355.41 27537355.55 0.0135 0.0050

Uranus 70682-11-10 01:55 G 27537443.44 27537443.58 27537443.73 0.0136 0.0030

Uranus 70683-02-06 06:15 G 27537531.61 27537531.76 27537531.91 0.0136 0.0009

Uranus 70683-05-05 10:19 G 27537619.79 27537619.93 27537620.08 0.0136 0.0013

Uranus 70683-08-01 14:24 G 27537707.96 27537708.10 27537708.25 0.0136 0.0033

Uranus 70683-10-28 18:29 G 27537796.14 27537796.27 27537796.41 0.0136 0.0053

Mars 70683-11-23 09:51 G 27537821.79 27537821.91 27537822.02 0.1857 0.0777

Uranus 70684-01-24 22:34 G 27537884.32 27537884.44 27537884.57 0.0136 0.0073

Uranus 70684-04-22 02:39 G 27537972.51 27537972.61 27537972.72 0.0136 0.0093

Saturn 70684-05-20 06:43 G 27538000.67 27538000.78 27538000.89 0.0282 0.0195

Uranus 70684-07-19 06:43 G 27538060.71 27538060.78 27538060.87 0.0136 0.0113

Saturn 70684-08-16 22:19 G 27538089.28 27538089.43 27538089.59 0.0282 0.0048

Mars 70684-10-07 19:41 G 27538141.27 27538141.32 27538141.38 0.1663 0.1509

Jupiter 70684-10-14 02:53 G 27538147.50 27538147.62 27538147.73 0.0545 0.0312

Uranus 70684-10-15 10:34 G 27538148.92 27538148.94 27538148.98 0.0136 0.0133

Saturn 70684-11-13 14:24 G 27538177.96 27538178.10 27538178.25 0.0282 0.0105

Saturn 70685-02-10 06:43 G 27538266.72 27538266.78 27538266.84 0.0282 0.0260

Earth 70688-08-22 15:22 G 27539556.07 27539556.14 27539556.22 0.2696 0.2057

Moon 70688-08-22 15:51 G 27539556.08 27539556.16 27539556.24 0.2690 0.2017 *

Jupiter 70690-05-30 14:53 G 27540202.02 27540202.12 27540202.23 0.0484 0.0353

Jupiter 70690-08-28 05:03 G 27540291.59 27540291.71 27540291.83 0.0484 0.0305

Moon 70691-02-20 14:10 G 27540467.96 27540468.09 27540468.23 0.2629 0.0378

Earth 70691-02-20 14:39 G 27540467.97 27540468.11 27540468.24 0.2635 0.0490 *

Venus 70692-12-21 00:15 G 27541137.42 27541137.51 27541137.60 0.3696 0.2307

Mars 70693-04-14 15:51 G 27541252.03 27541252.16 27541252.29 0.1851 0.0258

Mars 70694-02-28 01:41 G 27541571.44 27541571.57 27541571.70 0.1668 0.0690

Earth 70695-08-16 06:29 G 27542105.67 27542105.77 27542105.86 0.2699 0.1734

Moon 70695-08-16 06:58 G 27542105.70 27542105.79 27542105.89 0.2704 0.1610 *

Jupiter 70696-08-02 04:34 G 27542457.54 27542457.69 27542457.83 0.0544 0.0106

Venus 70698-07-06 19:27 G 27543161.20 27543161.31 27543161.42 0.3694 0.1225

Saturn 70698-12-27 02:53 G 27543334.48 27543334.62 27543334.75 0.0277 0.0139

Saturn 70699-03-25 18:00 G 27543423.10 27543423.25 27543423.40 0.0277 0.0005

Saturn 70699-06-22 08:39 G 27543511.74 27543511.86 27543511.99 0.0277 0.0144

Neptune 70701-06-29 15:51 G 27544249.10 27544249.16 27544249.23 0.0088 0.0080

Neptune 70701-09-25 17:46 G 27544337.16 27544337.24 27544337.35 0.0088 0.0072

Neptune 70701-12-22 20:24 G 27544425.24 27544425.35 27544425.46 0.0088 0.0063

Neptune 70702-03-20 22:19 G 27544513.32 27544513.43 27544513.58 0.0088 0.0055

Neptune 70702-06-17 00:58 G 27544601.40 27544601.54 27544601.68 0.0088 0.0046

Jupiter 70702-06-17 06:43 G 27544601.63 27544601.78 27544601.93 0.0484 0.0134 *

Mars 70702-09-05 22:05 G 27544682.33 27544682.42 27544682.51 0.1845 0.1263

Neptune 70702-09-13 03:22 G 27544689.49 27544689.64 27544689.79 0.0088 0.0037

Neptune 70702-12-10 05:31 G 27544777.58 27544777.73 27544777.89 0.0088 0.0029

Neptune 70703-03-08 07:55 G 27544865.67 27544865.83 27544866.00 0.0088 0.0020

Neptune 70703-06-04 10:19 G 27544953.77 27544953.93 27544954.10 0.0088 0.0011

Mars 70703-07-22 07:12 G 27545001.65 27545001.80 27545001.94 0.1672 0.0164

Neptune 70703-08-31 12:43 G 27545041.87 27545042.03 27545042.20 0.0088 0.0002

Neptune 70703-11-27 15:07 G 27545129.97 27545130.13 27545130.30 0.0088 0.0007

Neptune 70704-02-23 17:31 G 27545218.07 27545218.23 27545218.39 0.0088 0.0016

Moon 70704-02-24 13:27 G 27545218.97 27545219.06 27545219.14 0.2633 0.2037

Earth 70704-02-24 14:24 G 27545219.02 27545219.10 27545219.19 0.2636 0.2068 *

Neptune 70704-05-21 19:41 G 27545306.17 27545306.32 27545306.49 0.0088 0.0025

Neptune 70704-08-17 22:05 G 27545394.28 27545394.42 27545394.59 0.0088 0.0034

Neptune 70704-11-14 00:29 G 27545482.39 27545482.52 27545482.68 0.0088 0.0043

Neptune 70705-02-10 02:53 G 27545570.50 27545570.62 27545570.77 0.0088 0.0052

Neptune 70705-05-09 05:17 G 27545658.62 27545658.72 27545658.86 0.0088 0.0061

Neptune 70705-08-05 07:55 G 27545746.74 27545746.83 27545746.94 0.0088 0.0070

Neptune 70705-11-01 10:19 G 27545834.87 27545834.93 27545835.01 0.0088 0.0079

Jupiter 70708-05-22 05:31 G 27546767.59 27546767.73 27546767.87 0.0544 0.0116

Earth 70708-08-19 03:22 G 27546856.52 27546856.64 27546856.76 0.2698 0.0345

Moon 70708-08-19 04:19 G 27546856.56 27546856.68 27546856.80 0.2699 0.0260 *

Venus 70711-02-16 16:05 G 27547768.04 27547768.17 27547768.29 0.3676 0.0404

Earth 70711-02-16 21:22 G 27547768.32 27547768.39 27547768.46 0.2633 0.2230

Moon 70711-02-16 22:19 G 27547768.35 27547768.43 27547768.51 0.2630 0.2130 *

Mars 70712-12-11 12:15 G 27548431.90 27548432.01 27548432.13 0.1677 0.1052

Saturn 70713-10-08 08:39 G 27548732.78 27548732.86 27548732.95 0.0281 0.0230

Saturn 70714-01-05 00:15 G 27548821.36 27548821.51 27548821.66 0.0282 0.0083

Saturn 70714-04-03 16:05 G 27548910.02 27548910.17 27548910.32 0.0282 0.0068

Jupiter 70714-04-05 08:53 G 27548911.71 27548911.87 27548912.02 0.0484 0.0029

Saturn 70714-07-01 08:24 G 27548998.76 27548998.85 27548998.95 0.0282 0.0223

Jupiter 70720-03-10 05:17 G 27551077.61 27551077.72 27551077.83 0.0544 0.0360

Jupiter 70720-06-07 23:03 G 27551167.41 27551167.46 27551167.50 0.0545 0.0511

Earth 70721-08-22 00:00 G 27551607.39 27551607.50 27551607.62 0.2697 0.1002

Moon 70721-08-22 00:58 G 27551607.43 27551607.54 27551607.65 0.2693 0.1043 *

Uranus 70722-06-12 17:31 G 27551902.19 27551902.23 27551902.29 0.0143 0.0135

Uranus 70722-09-08 23:03 G 27551990.37 27551990.46 27551990.57 0.0143 0.0110

Uranus 70722-12-06 05:03 G 27552078.58 27552078.71 27552078.84 0.0143 0.0084

Uranus 70723-03-04 10:34 G 27552166.80 27552166.94 27552167.09 0.0143 0.0059

Mars 70723-05-25 09:51 G 27552248.80 27552248.91 27552249.02 0.1857 0.0895

Uranus 70723-05-31 16:19 G 27552255.03 27552255.18 27552255.34 0.0143 0.0033

Uranus 70723-08-27 22:05 G 27552343.26 27552343.42 27552343.59 0.0143 0.0008

Uranus 70723-11-24 04:05 G 27552431.51 27552431.67 27552431.83 0.0143 0.0020

Earth 70724-02-19 20:39 G 27552519.23 27552519.36 27552519.49 0.2634 0.0761

Moon 70724-02-19 20:39 G 27552519.23 27552519.36 27552519.50 0.2627 0.0777 *

Uranus 70724-02-20 09:51 G 27552519.76 27552519.91 27552520.07 0.0142 0.0047

Mars 70724-04-08 20:10 G 27552568.31 27552568.34 27552568.36 0.1663 0.1630

Uranus 70724-05-18 15:36 G 27552608.02 27552608.15 27552608.30 0.0142 0.0074

Uranus 70724-08-14 21:51 G 27552696.29 27552696.41 27552696.53 0.0142 0.0100

Uranus 70724-11-11 03:51 G 27552784.59 27552784.66 27552784.74 0.0142 0.0127

Jupiter 70726-01-22 11:17 G 27553221.82 27553221.97 27553222.11 0.0484 0.0185

Jupiter 70726-04-22 01:41 G 27553311.56 27553311.57 27553311.59 0.0484 0.0481

Saturn 70728-05-16 05:31 G 27554066.61 27554066.73 27554066.86 0.0277 0.0165

Saturn 70728-08-12 20:53 G 27554155.21 27554155.37 27554155.52 0.0277 0.0023

Saturn 70728-11-09 11:31 G 27554243.85 27554243.98 27554244.12 0.0277 0.0119

Saturn 70729-02-06 02:10 G 27554332.53 27554332.59 27554332.65 0.0277 0.0255

Jupiter 70732-03-27 00:29 G 27555477.40 27555477.52 27555477.64 0.0545 0.0302

Mars 70732-10-14 15:36 G 27555679.03 27555679.15 27555679.28 0.1851 0.0163

Mars 70733-08-30 02:10 G 27555998.46 27555998.59 27555998.71 0.1667 0.0819

Earth 70734-08-24 20:39 G 27556358.30 27556358.36 27556358.42 0.2696 0.2297

Moon 70734-08-24 20:39 G 27556358.31 27556358.36 27556358.42 0.2689 0.2353 *

Moon 70737-02-21 19:41 G 27557270.19 27557270.32 27557270.45 0.2630 0.0784

Earth 70737-02-21 20:10 G 27557270.21 27557270.34 27557270.47 0.2635 0.0782 *

Jupiter 70737-11-10 13:27 G 27557531.95 27557532.06 27557532.17 0.0484 0.0345

Jupiter 70738-02-08 03:22 G 27557621.53 27557621.64 27557621.77 0.0484 0.0312

Earth 70741-08-17 11:31 G 27558907.88 27558907.98 27558908.09 0.2699 0.1472

Moon 70741-08-17 12:15 G 27558907.91 27558908.01 27558908.12 0.2704 0.1467 *

Mars 70742-03-06 22:19 G 27559109.33 27559109.43 27559109.53 0.1846 0.1135

Mars 70743-01-20 07:27 G 27559428.67 27559428.81 27559428.96 0.1672 0.0066

Saturn 70743-02-25 09:07 G 27559464.85 27559464.88 27559464.90 0.0282 0.0277

Saturn 70743-05-25 00:29 G 27559553.38 27559553.52 27559553.65 0.0282 0.0132

Saturn 70743-08-21 16:05 G 27559642.02 27559642.17 27559642.33 0.0282 0.0020

Saturn 70743-11-18 08:10 G 27559730.72 27559730.84 27559730.97 0.0282 0.0171

Jupiter 70744-01-14 02:24 G 27559787.45 27559787.60 27559787.74 0.0545 0.0099

Venus 70749-07-28 22:34 G 27561810.33 27561810.44 27561810.56 0.3696 0.0987

Jupiter 70749-11-27 05:31 G 27561931.58 27561931.73 27561931.88 0.0484 0.0148

Moon 70750-02-24 19:12 G 27562021.22 27562021.30 27562021.37 0.2634 0.2162

Earth 70750-02-24 20:10 G 27562021.29 27562021.34 27562021.40 0.2636 0.2375 *

Mars 70752-06-11 12:43 G 27562858.91 27562859.03 27562859.15 0.1677 0.0917

Earth 70754-08-20 08:39 G 27563658.74 27563658.86 27563658.98 0.2698 0.0088

Moon 70754-08-20 09:36 G 27563658.78 27563658.90 27563659.02 0.2697 0.0067 *

Venus 70755-02-11 17:46 G 27563834.15 27563834.24 27563834.32 0.3694 0.2503

Jupiter 70755-11-02 03:51 G 27564097.52 27564097.66 27564097.81 0.0544 0.0111

Earth 70757-02-17 02:53 G 27564570.53 27564570.62 27564570.71 0.2634 0.1956

Moon 70757-02-17 03:36 G 27564570.56 27564570.65 27564570.75 0.2629 0.1848 *

Pluto 70757-08-11 02:24 G 27564745.54 27564745.60 27564745.68 0.0080 0.0071

Saturn 70757-10-03 05:03 G 27564798.62 27564798.71 27564798.81 0.0277 0.0220

Pluto 70757-11-07 04:19 G 27564833.56 27564833.68 27564833.81 0.0080 0.0050

Saturn 70757-12-30 20:39 G 27564887.21 27564887.36 27564887.51 0.0277 0.0075

Pluto 70758-02-03 06:00 G 27564921.61 27564921.75 27564921.91 0.0079 0.0029

Saturn 70758-03-29 11:31 G 27564975.83 27564975.98 27564976.13 0.0277 0.0066

Pluto 70758-05-02 07:55 G 27565009.67 27565009.83 27565010.00 0.0079 0.0008

Saturn 70758-06-26 02:10 G 27565064.49 27565064.59 27565064.69 0.0277 0.0205

Pluto 70758-07-29 09:51 G 27565097.75 27565097.91 27565098.07 0.0079 0.0014

Pluto 70758-10-25 11:17 G 27565185.84 27565185.97 27565186.13 0.0079 0.0035

Pluto 70759-01-21 12:58 G 27565273.94 27565274.04 27565274.17 0.0079 0.0056

Pluto 70759-04-19 15:07 G 27565362.09 27565362.13 27565362.17 0.0079 0.0076

Jupiter 70761-09-15 07:12 G 27566241.64 27566241.80 27566241.96 0.0484 0.0021

Venus 70762-03-09 17:31 G 27566417.16 27566417.23 27566417.29 0.3675 0.3045

Mars 70762-11-23 09:51 G 27566675.80 27566675.91 27566676.02 0.1857 0.1010

Uranus 70765-09-16 12:00 G 27567703.96 27567704.00 27567704.07 0.0135 0.0125

Uranus 70765-12-13 16:19 G 27567792.10 27567792.18 27567792.29 0.0135 0.0104

Uranus 70766-03-11 20:39 G 27567880.25 27567880.36 27567880.49 0.0135 0.0083

Uranus 70766-06-08 00:58 G 27567968.42 27567968.54 27567968.68 0.0135 0.0063

Uranus 70766-09-04 05:17 G 27568056.58 27568056.72 27568056.87 0.0135 0.0042

Uranus 70766-12-01 09:36 G 27568144.75 27568144.90 27568145.05 0.0135 0.0021

Uranus 70767-02-27 13:55 G 27568232.93 27568233.08 27568233.23 0.0136 0.0004

Uranus 70767-05-26 18:00 G 27568321.10 27568321.25 27568321.40 0.0136 0.0020

Jupiter 70767-08-21 04:48 G 27568407.59 27568407.70 27568407.82 0.0544 0.0331

Uranus 70767-08-22 22:05 G 27568409.28 27568409.42 27568409.56 0.0136 0.0040

Earth 70767-08-23 05:17 G 27568409.61 27568409.72 27568409.83 0.2697 0.1250

Moon 70767-08-23 06:00 G 27568409.65 27568409.75 27568409.86 0.2693 0.1341 *

Venus 70767-09-23 15:07 G 27568441.01 27568441.13 27568441.25 0.3676 0.1177

Jupiter 70767-11-18 22:19 G 27568497.42 27568497.43 27568497.45 0.0545 0.0538

Uranus 70767-11-19 02:10 G 27568497.46 27568497.59 27568497.72 0.0136 0.0061

Uranus 70768-02-15 06:15 G 27568585.64 27568585.76 27568585.88 0.0136 0.0081

Uranus 70768-05-13 10:05 G 27568673.83 27568673.92 27568674.03 0.0136 0.0101

Uranus 70768-08-09 14:10 G 27568762.03 27568762.09 27568762.16 0.0136 0.0121

Moon 70770-02-20 02:24 G 27569321.46 27569321.60 27569321.73 0.2628 0.0435

Earth 70770-02-20 02:10 G 27569321.46 27569321.59 27569321.72 0.2634 0.0470 *

Mars 70772-04-14 15:51 G 27570106.04 27570106.16 27570106.29 0.1851 0.0074

Saturn 70772-10-11 01:41 G 27570285.45 27570285.57 27570285.69 0.0282 0.0173

Saturn 70773-01-07 17:17 G 27570374.07 27570374.22 27570374.38 0.0282 0.0025

Mars 70773-02-28 02:24 G 27570425.48 27570425.60 27570425.72 0.1668 0.0934

Saturn 70773-04-06 09:22 G 27570462.75 27570462.89 27570463.03 0.0282 0.0128

Jupiter 70773-07-04 09:22 G 27570551.75 27570551.89 27570552.04 0.0484 0.0181

Earth 70774-08-15 19:41 G 27570959.29 27570959.32 27570959.34 0.2700 0.2624

Moon 70774-08-15 19:55 G 27570959.32 27570959.33 27570959.35 0.2706 0.2673 *

Jupiter 70779-09-06 22:48 G 27572807.33 27572807.45 27572807.57 0.0545 0.0305

Moon 70780-08-25 01:41 G 27573160.53 27573160.57 27573160.61 0.2689 0.2487

Earth 70780-08-25 01:41 G 27573160.54 27573160.57 27573160.61 0.2696 0.2541 *

Mars 70781-09-04 22:05 G 27573536.32 27573536.42 27573536.53 0.1845 0.1033

Mars 70782-07-21 07:55 G 27573855.69 27573855.83 27573855.98 0.1672 0.0097

Neptune 70782-10-23 09:51 G 27573949.90 27573949.91 27573949.95 0.0090 0.0089

Neptune 70783-01-19 12:00 G 27574037.94 27574038.00 27574038.08 0.0090 0.0080

Moon 70783-02-23 00:58 G 27574072.42 27574072.54 27574072.67 0.2631 0.0944

Earth 70783-02-23 01:55 G 27574072.45 27574072.58 27574072.70 0.2635 0.1073 *

Neptune 70783-04-17 14:10 G 27574126.00 27574126.09 27574126.19 0.0090 0.0071

Neptune 70783-07-14 16:19 G 27574214.07 27574214.18 27574214.29 0.0090 0.0062

Neptune 70783-10-10 18:00 G 27574302.14 27574302.25 27574302.38 0.0090 0.0054

Neptune 70784-01-06 20:10 G 27574390.21 27574390.34 27574390.48 0.0090 0.0045

Neptune 70784-04-03 22:19 G 27574478.29 27574478.43 27574478.57 0.0090 0.0036

Neptune 70784-07-01 00:00 G 27574566.37 27574566.50 27574566.65 0.0090 0.0028

Neptune 70784-09-27 02:10 G 27574654.44 27574654.59 27574654.74 0.0090 0.0019

Neptune 70784-12-24 04:05 G 27574742.52 27574742.67 27574742.82 0.0089 0.0010

Neptune 70785-03-22 06:00 G 27574830.60 27574830.75 27574830.90 0.0089 0.0002

Jupiter 70785-04-22 12:00 G 27574861.89 27574862.00 27574862.11 0.0484 0.0334

Neptune 70785-06-18 07:55 G 27574918.68 27574918.83 27574918.98 0.0089 0.0007

Jupiter 70785-07-21 02:10 G 27574951.48 27574951.59 27574951.71 0.0484 0.0324

Neptune 70785-09-14 09:51 G 27575006.76 27575006.91 27575007.06 0.0089 0.0015

Neptune 70785-12-11 11:46 G 27575094.85 27575094.99 27575095.13 0.0089 0.0024

Neptune 70786-03-09 13:27 G 27575182.93 27575183.06 27575183.21 0.0089 0.0032

Neptune 70786-06-05 15:22 G 27575271.02 27575271.14 27575271.28 0.0089 0.0041

Neptune 70786-09-01 17:17 G 27575359.10 27575359.22 27575359.35 0.0089 0.0049

Neptune 70786-11-28 18:58 G 27575447.19 27575447.29 27575447.42 0.0089 0.0058

Saturn 70787-02-20 07:55 G 27575530.76 27575530.83 27575530.90 0.0277 0.0246

Neptune 70787-02-24 20:53 G 27575535.28 27575535.37 27575535.48 0.0089 0.0066

Saturn 70787-05-19 23:17 G 27575619.33 27575619.47 27575619.62 0.0277 0.0101

Neptune 70787-05-23 22:48 G 27575623.38 27575623.45 27575623.54 0.0089 0.0074

Saturn 70787-08-16 14:24 G 27575707.95 27575708.10 27575708.25 0.0277 0.0041

Earth 70787-08-18 16:48 G 27575710.09 27575710.20 27575710.31 0.2699 0.1211

Moon 70787-08-18 17:31 G 27575710.12 27575710.23 27575710.35 0.2703 0.1062 *

Neptune 70787-08-20 00:43 G 27575711.48 27575711.53 27575711.59 0.0089 0.0082

Saturn 70787-11-13 05:03 G 27575796.60 27575796.71 27575796.83 0.0277 0.0180

Jupiter 70791-06-26 00:00 G 27577117.36 27577117.50 27577117.65 0.0545 0.0093

Mars 70791-12-11 13:12 G 27577285.92 27577286.05 27577286.18 0.1677 0.0782

Jupiter 70797-05-09 04:05 G 27579261.52 27579261.67 27579261.82 0.0484 0.0158

Venus 70800-08-19 01:55 G 27580459.52 27580459.58 27580459.63 0.3696 0.3247

Earth 70800-08-20 13:55 G 27580460.95 27580461.08 27580461.20 0.2698 0.0181

Moon 70800-08-20 14:53 G 27580460.99 27580461.12 27580461.24 0.2696 0.0223 *

Saturn 70802-02-28 01:55 G 27581017.49 27581017.58 27581017.68 0.0282 0.0220

Mars 70802-05-24 10:05 G 27581102.82 27581102.92 27581103.02 0.1857 0.1140

Saturn 70802-05-27 17:31 G 27581106.08 27581106.23 27581106.38 0.0282 0.0073

Saturn 70802-08-24 09:22 G 27581194.74 27581194.89 27581195.04 0.0282 0.0078

Saturn 70802-11-21 01:41 G 27581283.48 27581283.57 27581283.66 0.0282 0.0232

Earth 70803-02-18 08:24 G 27581372.75 27581372.85 27581372.95 0.2634 0.1674

Moon 70803-02-18 09:07 G 27581372.77 27581372.88 27581372.98 0.2628 0.1667 *

Jupiter 70803-04-14 01:41 G 27581427.43 27581427.57 27581427.72 0.0545 0.0117

Venus 70806-03-04 21:07 G 27582483.26 27582483.38 27582483.49 0.3695 0.0350

Uranus 70806-07-03 01:12 G 27582603.48 27582603.55 27582603.63 0.0143 0.0126

Uranus 70806-09-29 06:43 G 27582691.67 27582691.78 27582691.90 0.0143 0.0101

Uranus 70806-12-26 12:29 G 27582779.89 27582780.02 27582780.16 0.0143 0.0075

Uranus 70807-03-24 18:15 G 27582868.11 27582868.26 27582868.41 0.0143 0.0049

Uranus 70807-06-21 00:00 G 27582956.34 27582956.50 27582956.66 0.0143 0.0023

Uranus 70807-09-17 05:46 G 27583044.58 27583044.74 27583044.91 0.0143 0.0005

Uranus 70807-12-14 11:46 G 27583132.83 27583132.99 27583133.15 0.0143 0.0030

Uranus 70808-03-11 17:31 G 27583221.08 27583221.23 27583221.39 0.0142 0.0056

Uranus 70808-06-07 23:31 G 27583309.35 27583309.48 27583309.62 0.0142 0.0083

Uranus 70808-09-04 05:17 G 27583397.63 27583397.72 27583397.84 0.0142 0.0110

Uranus 70808-12-01 11:17 G 27583485.94 27583485.97 27583486.03 0.0142 0.0137

Jupiter 70809-02-25 06:15 G 27583571.60 27583571.76 27583571.92 0.0484 0.0005

Mars 70811-10-14 16:05 G 27584533.04 27584533.17 27584533.29 0.1851 0.0105

Mars 70812-08-29 02:39 G 27584852.50 27584852.61 27584852.72 0.1668 0.1058

Earth 70813-08-23 10:34 G 27585211.84 27585211.94 27585212.04 0.2697 0.1497

Moon 70813-08-23 11:03 G 27585211.86 27585211.96 27585212.06 0.2692 0.1559 *

Jupiter 70815-01-31 03:22 G 27585737.52 27585737.64 27585737.76 0.0544 0.0323

Moon 70816-02-21 07:41 G 27586123.69 27586123.82 27586123.96 0.2628 0.0191

Earth 70816-02-21 07:41 G 27586123.69 27586123.82 27586123.96 0.2635 0.0201 *

Saturn 70816-10-05 22:48 G 27586351.32 27586351.45 27586351.58 0.0277 0.0158

Saturn 70817-01-02 13:55 G 27586439.93 27586440.08 27586440.24 0.0277 0.0015

Saturn 70817-04-01 04:48 G 27586528.57 27586528.70 27586528.84 0.0277 0.0126

Saturn 70817-06-28 19:12 G 27586617.26 27586617.30 27586617.35 0.0277 0.0262

Venus 70818-10-14 16:19 G 27587090.07 27587090.18 27587090.29 0.3675 0.1544

Earth 70820-08-16 00:58 G 27587761.48 27587761.54 27587761.60 0.2699 0.2356

Moon 70820-08-16 01:27 G 27587761.49 27587761.56 27587761.62 0.2706 0.2257 *

Jupiter 70820-12-14 08:10 G 27587881.69 27587881.84 27587881.98 0.0484 0.0170

Mars 70821-03-05 22:19 G 27587963.32 27587963.43 27587963.54 0.1845 0.0909

Mars 70822-01-19 08:24 G 27588282.70 27588282.85 27588282.99 0.1672 0.0220

Venus 70824-04-29 14:10 G 27589114.00 27589114.09 27589114.17 0.3676 0.2741

Jupiter 70827-02-16 22:19 G 27590137.32 27590137.43 27590137.55 0.0545 0.0337

Moon 70829-02-23 06:29 G 27590874.66 27590874.77 27590874.89 0.2631 0.1306

Earth 70829-02-23 07:27 G 27590874.70 27590874.81 27590874.93 0.2636 0.1370 *

Mars 70831-06-11 13:27 G 27591712.93 27591713.06 27591713.20 0.1677 0.0661

Saturn 70831-07-18 02:39 G 27591749.57 27591749.61 27591749.67 0.0281 0.0265

Saturn 70831-10-14 18:15 G 27591838.12 27591838.26 27591838.40 0.0282 0.0119

Saturn 70832-01-11 10:05 G 27591926.76 27591926.92 27591927.07 0.0282 0.0031

Saturn 70832-04-09 02:10 G 27592015.47 27592015.59 27592015.71 0.0282 0.0184

Jupiter 70832-10-02 10:34 G 27592191.83 27592191.94 27592192.05 0.0485 0.0327

Jupiter 70832-12-31 00:29 G 27592281.41 27592281.52 27592281.64 0.0484 0.0333

Earth 70833-08-18 22:05 G 27592512.31 27592512.42 27592512.54 0.2699 0.0947

Moon 70833-08-18 23:03 G 27592512.34 27592512.46 27592512.57 0.2701 0.0935 *

Jupiter 70838-12-05 22:34 G 27594447.30 27594447.44 27594447.59 0.0544 0.0099

Mars 70840-10-31 18:29 G 27595143.22 27595143.27 27595143.33 0.1682 0.1555

Mars 70841-11-22 10:05 G 27595529.82 27595529.92 27595530.01 0.1857 0.1247

Jupiter 70844-07-21 13:12 G 27596502.03 27596502.05 27596502.07 0.0485 0.0479

Jupiter 70844-10-19 02:53 G 27596591.47 27596591.62 27596591.77 0.0484 0.0172

Saturn 70846-02-23 01:12 G 27597083.44 27597083.55 27597083.67 0.0277 0.0185

Saturn 70846-05-22 16:34 G 27597172.04 27597172.19 27597172.35 0.0277 0.0042

Saturn 70846-08-19 07:41 G 27597260.68 27597260.82 27597260.96 0.0277 0.0100

Earth 70846-08-21 18:58 G 27597263.17 27597263.29 27597263.41 0.2698 0.0430

Moon 70846-08-21 19:55 G 27597263.21 27597263.33 27597263.45 0.2696 0.0590 *

Saturn 70846-11-15 22:19 G 27597349.35 27597349.43 27597349.50 0.0277 0.0237

Earth 70849-02-18 14:10 G 27598174.97 27598175.09 27598175.20 0.2634 0.1395

Moon 70849-02-18 14:39 G 27598174.99 27598175.11 27598175.23 0.2628 0.1258 *

Uranus 70849-10-06 19:55 G 27598405.26 27598405.33 27598405.41 0.0135 0.0115

Uranus 70850-01-03 00:15 G 27598493.41 27598493.51 27598493.63 0.0135 0.0094

Uranus 70850-04-01 04:34 G 27598581.57 27598581.69 27598581.82 0.0135 0.0074

Uranus 70850-06-28 08:53 G 27598669.74 27598669.87 27598670.01 0.0135 0.0053

Jupiter 70850-09-23 23:46 G 27598757.35 27598757.49 27598757.63 0.0544 0.0119

Uranus 70850-09-24 13:12 G 27598757.90 27598758.05 27598758.20 0.0135 0.0032

Uranus 70850-12-21 17:31 G 27598846.08 27598846.23 27598846.38 0.0135 0.0012

Uranus 70851-03-19 21:36 G 27598934.25 27598934.40 27598934.55 0.0136 0.0009

Mars 70851-04-14 16:05 G 27598960.04 27598960.17 27598960.29 0.1851 0.0207

Uranus 70851-06-16 01:41 G 27599022.43 27599022.57 27599022.72 0.0136 0.0030

Uranus 70851-09-12 05:46 G 27599110.61 27599110.74 27599110.88 0.0136 0.0050

Uranus 70851-12-09 09:51 G 27599198.79 27599198.91 27599199.04 0.0136 0.0070

Mars 70852-02-28 03:07 G 27599279.54 27599279.63 27599279.73 0.1667 0.1190

Uranus 70852-03-06 13:55 G 27599286.98 27599287.08 27599287.20 0.0136 0.0090

Uranus 70852-06-02 18:00 G 27599375.17 27599375.25 27599375.34 0.0136 0.0110

Uranus 70852-08-29 21:51 G 27599463.38 27599463.41 27599463.47 0.0136 0.0130

Jupiter 70856-08-07 05:03 G 27600901.55 27600901.71 27600901.86 0.0484 0.0015

Venus 70857-03-26 00:15 G 27601132.41 27601132.51 27601132.61 0.3696 0.1905

Earth 70859-08-24 15:36 G 27602014.06 27602014.15 27602014.24 0.2697 0.1747

Moon 70859-08-24 16:05 G 27602014.08 27602014.17 27602014.26 0.2690 0.1739 *

Mars 70860-09-03 22:19 G 27602390.32 27602390.43 27602390.55 0.1845 0.0792

Saturn 70861-03-02 18:29 G 27602570.16 27602570.27 27602570.40 0.0282 0.0166

Saturn 70861-05-30 10:19 G 27602658.78 27602658.93 27602659.08 0.0282 0.0017

Mars 70861-07-20 08:39 G 27602709.72 27602709.86 27602710.00 0.1672 0.0342

Saturn 70861-08-27 02:10 G 27602747.46 27602747.59 27602747.73 0.0282 0.0135

Moon 70862-02-21 13:12 G 27602925.91 27602926.05 27602926.19 0.2629 0.0044

Earth 70862-02-21 13:27 G 27602925.93 27602926.06 27602926.20 0.2635 0.0117 *

Jupiter 70862-07-13 01:12 G 27603067.44 27603067.55 27603067.67 0.0544 0.0329

Venus 70862-10-09 19:27 G 27603156.20 27603156.31 27603156.41 0.3695 0.1631

Jupiter 70862-10-10 18:58 G 27603157.28 27603157.29 27603157.30 0.0545 0.0543

Neptune 70865-12-28 11:31 G 27604331.96 27604331.98 27604332.03 0.0088 0.0086

Neptune 70866-03-26 13:55 G 27604420.02 27604420.08 27604420.17 0.0088 0.0077

Neptune 70866-06-22 16:05 G 27604508.09 27604508.17 27604508.29 0.0088 0.0069

Earth 70866-08-17 06:15 G 27604563.69 27604563.76 27604563.84 0.2699 0.2084

Moon 70866-08-17 06:43 G 27604563.71 27604563.78 27604563.86 0.2706 0.2099 *

Neptune 70866-09-18 18:29 G 27604596.16 27604596.27 27604596.40 0.0088 0.0060

Neptune 70866-12-15 21:07 G 27604684.25 27604684.38 27604684.51 0.0088 0.0051

Neptune 70867-03-13 23:03 G 27604772.33 27604772.46 27604772.62 0.0088 0.0043

Neptune 70867-06-10 01:41 G 27604860.42 27604860.57 27604860.72 0.0088 0.0034

Neptune 70867-09-06 04:05 G 27604948.51 27604948.67 27604948.82 0.0088 0.0025

Neptune 70867-12-03 06:15 G 27605036.60 27605036.76 27605036.93 0.0088 0.0017

Neptune 70868-02-29 08:39 G 27605124.70 27605124.86 27605125.03 0.0088 0.0008

Jupiter 70868-05-26 07:12 G 27605211.65 27605211.80 27605211.95 0.0484 0.0152

Neptune 70868-05-27 11:03 G 27605212.79 27605212.96 27605213.13 0.0088 0.0001

Neptune 70868-08-23 13:27 G 27605300.89 27605301.06 27605301.22 0.0088 0.0010

Neptune 70868-11-19 15:36 G 27605389.00 27605389.15 27605389.32 0.0088 0.0019

Neptune 70869-02-15 18:00 G 27605477.10 27605477.25 27605477.41 0.0088 0.0028

Neptune 70869-05-14 20:24 G 27605565.21 27605565.35 27605565.51 0.0088 0.0037

Neptune 70869-08-10 22:48 G 27605653.32 27605653.45 27605653.60 0.0088 0.0046

Neptune 70869-11-07 01:12 G 27605741.43 27605741.55 27605741.69 0.0088 0.0055

Mars 70870-01-25 05:03 G 27605820.67 27605820.71 27605820.74 0.1839 0.1754

Neptune 70870-02-03 03:36 G 27605829.55 27605829.65 27605829.77 0.0088 0.0064

Neptune 70870-05-02 06:00 G 27605917.67 27605917.75 27605917.85 0.0088 0.0073

Neptune 70870-07-29 08:24 G 27606005.81 27606005.85 27606005.92 0.0088 0.0082

Mars 70870-12-10 13:55 G 27606139.94 27606140.08 27606140.22 0.1677 0.0527

Jupiter 70874-05-01 02:39 G 27607377.60 27607377.61 27607377.63 0.0544 0.0539

Jupiter 70874-07-29 20:53 G 27607467.27 27607467.37 27607467.49 0.0545 0.0346

Moon 70875-02-24 12:15 G 27607676.90 27607677.01 27607677.12 0.2631 0.1556

Earth 70875-02-24 13:12 G 27607676.94 27607677.05 27607677.15 0.2636 0.1668 *

Venus 70875-05-21 15:22 G 27607763.01 27607763.14 27607763.26 0.3676 0.0063

Saturn 70875-07-13 00:29 G 27607815.45 27607815.52 27607815.60 0.0277 0.0243

Saturn 70875-10-09 16:05 G 27607904.02 27607904.17 27607904.31 0.0277 0.0098

Saturn 70876-01-06 07:12 G 27607992.65 27607992.80 27607992.95 0.0277 0.0044

Saturn 70876-04-03 21:51 G 27608081.30 27608081.41 27608081.52 0.0276 0.0183

Earth 70879-08-20 03:22 G 27609314.53 27609314.64 27609314.76 0.2699 0.0687

Moon 70879-08-20 04:19 G 27609314.56 27609314.68 27609314.80 0.2700 0.0515 *

Jupiter 70880-03-14 09:07 G 27609521.77 27609521.88 27609522.00 0.0484 0.0316

Mars 70880-05-01 18:58 G 27609570.21 27609570.29 27609570.36 0.1682 0.1433

Jupiter 70880-06-11 23:17 G 27609611.36 27609611.47 27609611.58 0.0484 0.0343

Mars 70881-05-23 10:05 G 27609956.84 27609956.92 27609957.01 0.1857 0.1373

Earth 70882-02-16 20:24 G 27610226.33 27610226.35 27610226.38 0.2633 0.2570

Moon 70882-02-16 21:22 G 27610226.34 27610226.39 27610226.45 0.2630 0.2398 *

Jupiter 70886-05-17 22:19 G 27611777.29 27611777.43 27611777.57 0.0544 0.0133

Uranus 70890-04-26 03:22 G 27613216.63 27613216.64 27613216.67 0.0143 0.0141

Saturn 70890-07-20 18:43 G 27613302.19 27613302.28 27613302.39 0.0282 0.0216

Uranus 70890-07-23 08:53 G 27613304.79 27613304.87 27613304.98 0.0143 0.0116

Mars 70890-10-13 16:05 G 27613387.05 27613387.17 27613387.30 0.1851 0.0327

Saturn 70890-10-17 10:19 G 27613390.79 27613390.93 27613391.09 0.0282 0.0069

Uranus 70890-10-19 14:39 G 27613392.99 27613393.11 27613393.24 0.0143 0.0090

Saturn 70891-01-14 02:24 G 27613479.45 27613479.60 27613479.75 0.0282 0.0083

Uranus 70891-01-15 20:24 G 27613481.21 27613481.35 27613481.50 0.0143 0.0064

Saturn 70891-04-12 18:43 G 27613568.19 27613568.28 27613568.36 0.0282 0.0237

Uranus 70891-04-14 02:10 G 27613569.43 27613569.59 27613569.75 0.0143 0.0038

Uranus 70891-07-11 07:55 G 27613657.67 27613657.83 27613658.00 0.0143 0.0013

Mars 70891-08-29 03:22 G 27613706.55 27613706.64 27613706.73 0.1668 0.1300

Uranus 70891-10-07 13:41 G 27613745.91 27613746.07 27613746.24 0.0143 0.0014

Jupiter 70892-01-01 11:46 G 27613831.96 27613831.99 27613832.03 0.0485 0.0470

Uranus 70892-01-03 19:27 G 27613834.16 27613834.31 27613834.48 0.0143 0.0041

Jupiter 70892-03-31 01:27 G 27613921.42 27613921.56 27613921.71 0.0484 0.0182

Uranus 70892-04-01 01:27 G 27613922.42 27613922.56 27613922.71 0.0142 0.0067

Uranus 70892-06-28 07:27 G 27614010.69 27614010.81 27614010.94 0.0142 0.0094

Earth 70892-08-22 00:15 G 27614065.39 27614065.51 27614065.63 0.2698 0.0676

Moon 70892-08-22 01:12 G 27614065.43 27614065.55 27614065.66 0.2695 0.0696 *

Uranus 70892-09-24 13:12 G 27614098.97 27614099.05 27614099.15 0.0142 0.0121

Earth 70895-02-19 19:41 G 27614977.20 27614977.32 27614977.44 0.2634 0.1116

Moon 70895-02-19 20:10 G 27614977.22 27614977.34 27614977.46 0.2628 0.1137 *

Jupiter 70898-03-05 22:19 G 27616087.29 27616087.43 27616087.58 0.0544 0.0109

Mars 70900-03-05 22:19 G 27616817.31 27616817.43 27616817.55 0.1845 0.0683

Mars 70901-01-19 09:07 G 27617136.74 27617136.88 27617137.02 0.1672 0.0472

Jupiter 70904-01-19 03:51 G 27618231.50 27618231.66 27618231.82 0.0484 0.0023

Saturn 70904-11-30 02:53 G 27618547.60 27618547.62 27618547.65 0.0277 0.0272

Saturn 70905-02-26 18:29 G 27618636.13 27618636.27 27618636.41 0.0277 0.0126

Saturn 70905-05-26 09:36 G 27618724.75 27618724.90 27618725.06 0.0277 0.0017

Saturn 70905-08-23 00:29 G 27618813.39 27618813.52 27618813.64 0.0277 0.0156

Earth 70905-08-25 20:53 G 27618816.29 27618816.37 27618816.45 0.2697 0.1990

Moon 70905-08-25 21:07 G 27618816.30 27618816.38 27618816.46 0.2690 0.2069 *

Moon 70908-02-23 18:29 G 27619728.14 27619728.27 27619728.41 0.2629 0.0420

Earth 70908-02-23 19:12 G 27619728.16 27619728.30 27619728.43 0.2635 0.0410 *

Mars 70909-07-27 05:03 G 27620247.66 27620247.71 27620247.76 0.1840 0.1642

Jupiter 70909-12-23 23:17 G 27620397.36 27620397.47 27620397.59 0.0544 0.0330

Jupiter 70910-03-23 17:03 G 27620487.20 27620487.21 27620487.22 0.0545 0.0542

Mars 70910-06-11 14:24 G 27620566.96 27620567.10 27620567.24 0.1677 0.0398

Earth 70912-08-18 11:31 G 27621365.89 27621365.98 27621366.07 0.2699 0.1820

Moon 70912-08-18 12:15 G 27621365.91 27621366.01 27621366.10 0.2705 0.1740 *

Venus 70913-10-31 22:34 G 27621805.33 27621805.44 27621805.56 0.3696 0.0584

Pluto 70915-04-12 07:41 G 27622332.75 27622332.82 27622332.90 0.0064 0.0057

Pluto 70915-07-09 08:10 G 27622420.75 27622420.84 27622420.96 0.0065 0.0047

Pluto 70915-10-05 09:07 G 27622508.76 27622508.88 27622509.01 0.0065 0.0036

Jupiter 70915-11-07 06:00 G 27622541.60 27622541.75 27622541.90 0.0484 0.0139

Pluto 70916-01-01 09:51 G 27622596.78 27622596.91 27622597.06 0.0065 0.0025

Pluto 70916-03-29 10:48 G 27622684.80 27622684.95 27622685.10 0.0065 0.0014

Pluto 70916-06-25 11:31 G 27622772.83 27622772.98 27622773.13 0.0065 0.0003

Pluto 70916-09-21 12:15 G 27622860.86 27622861.01 27622861.16 0.0065 0.0008

Pluto 70916-12-18 12:58 G 27622948.90 27622949.04 27622949.19 0.0065 0.0019

Pluto 70917-03-16 13:41 G 27623036.94 27623037.07 27623037.21 0.0065 0.0029

Pluto 70917-06-12 14:24 G 27623124.99 27623125.10 27623125.23 0.0065 0.0040

Pluto 70917-09-08 15:07 G 27623213.05 27623213.13 27623213.23 0.0065 0.0051

Pluto 70917-12-05 15:51 G 27623301.13 27623301.16 27623301.21 0.0065 0.0062

Venus 70919-05-17 17:31 G 27623829.16 27623829.23 27623829.30 0.3695 0.2899

Mars 70919-11-01 19:27 G 27623997.21 27623997.31 27623997.40 0.1682 0.1297

Saturn 70919-12-08 19:41 G 27624034.27 27624034.32 27624034.38 0.0281 0.0258

Saturn 70920-03-06 11:03 G 27624122.82 27624122.96 27624123.10 0.0282 0.0113

Saturn 70920-06-03 02:53 G 27624211.47 27624211.62 27624211.77 0.0282 0.0037

Saturn 70920-08-30 18:58 G 27624300.18 27624300.29 27624300.41 0.0282 0.0190

Mars 70920-11-22 10:19 G 27624383.86 27624383.93 27624384.01 0.1857 0.1494

Moon 70921-02-25 18:00 G 27624479.15 27624479.25 27624479.34 0.2632 0.1857

Earth 70921-02-25 18:58 G 27624479.20 27624479.29 27624479.38 0.2636 0.1973 *

Jupiter 70922-01-09 18:58 G 27624797.18 27624797.29 27624797.40 0.0545 0.0341

Earth 70925-08-21 08:39 G 27626116.74 27626116.86 27626116.98 0.2698 0.0427

Moon 70925-08-21 09:36 G 27626116.78 27626116.90 27626117.03 0.2699 0.0391 *

Venus 70926-06-12 16:48 G 27626412.12 27626412.20 27626412.28 0.3675 0.2680

Jupiter 70927-08-26 08:24 G 27626851.73 27626851.85 27626851.97 0.0484 0.0296

Jupiter 70927-11-23 22:19 G 27626941.33 27626941.43 27626941.54 0.0484 0.0363

Earth 70928-02-19 01:55 G 27627028.52 27627028.58 27627028.65 0.2633 0.2299

Moon 70928-02-19 02:53 G 27627028.56 27627028.62 27627028.69 0.2629 0.2273 *

Mars 70930-04-14 16:19 G 27627814.05 27627814.18 27627814.30 0.1851 0.0448

Mars 70931-02-28 03:51 G 27628133.59 27628133.66 27628133.73 0.1668 0.1424

Venus 70931-12-27 14:10 G 27628435.98 27628436.09 27628436.21 0.3676 0.1500

Uranus 70933-07-31 23:17 G 27629018.43 27629018.47 27629018.52 0.0135 0.0127

Uranus 70933-10-28 03:36 G 27629106.57 27629106.65 27629106.75 0.0135 0.0107

Jupiter 70933-10-28 20:53 G 27629107.23 27629107.37 27629107.51 0.0545 0.0141

Uranus 70934-01-24 08:10 G 27629194.72 27629194.84 27629194.95 0.0135 0.0085

Uranus 70934-04-22 12:15 G 27629282.88 27629283.01 27629283.15 0.0135 0.0065

Saturn 70934-07-16 17:31 G 27629368.12 27629368.23 27629368.35 0.0277 0.0185

Uranus 70934-07-19 16:34 G 27629371.05 27629371.19 27629371.34 0.0135 0.0044

Saturn 70934-10-13 08:53 G 27629456.72 27629456.87 27629457.03 0.0277 0.0042

Uranus 70934-10-15 20:53 G 27629459.22 27629459.37 27629459.52 0.0135 0.0023

Saturn 70935-01-10 00:00 G 27629545.36 27629545.50 27629545.64 0.0277 0.0100

Uranus 70935-01-12 01:12 G 27629547.40 27629547.55 27629547.70 0.0135 0.0004

Saturn 70935-04-08 14:24 G 27629634.04 27629634.10 27629634.19 0.0276 0.0238

Uranus 70935-04-10 05:17 G 27629635.57 27629635.72 27629635.87 0.0135 0.0018

Uranus 70935-07-07 09:22 G 27629723.75 27629723.89 27629724.04 0.0136 0.0038

Uranus 70935-10-03 13:27 G 27629811.93 27629812.06 27629812.20 0.0136 0.0058

Uranus 70935-12-30 17:31 G 27629900.12 27629900.23 27629900.36 0.0136 0.0078

Uranus 70936-03-27 21:51 G 27629988.31 27629988.41 27629988.51 0.0136 0.0098

Uranus 70936-06-24 01:41 G 27630076.50 27630076.57 27630076.65 0.0136 0.0118

Earth 70938-08-24 05:31 G 27630867.62 27630867.73 27630867.84 0.2698 0.0930

Moon 70938-08-24 06:15 G 27630867.65 27630867.76 27630867.87 0.2694 0.1079 *

Jupiter 70939-06-14 10:34 G 27631161.89 27631161.94 27631161.99 0.0485 0.0457

Mars 70939-09-04 22:34 G 27631244.32 27631244.44 27631244.56 0.1845 0.0568

Jupiter 70939-09-12 00:15 G 27631251.36 27631251.51 27631251.65 0.0484 0.0194

Mars 70940-07-20 09:22 G 27631563.76 27631563.89 27631564.03 0.1672 0.0592

Earth 70941-02-21 01:12 G 27631779.42 27631779.55 27631779.68 0.2634 0.0830

Moon 70941-02-21 01:27 G 27631779.43 27631779.56 27631779.69 0.2628 0.0722 *

Jupiter 70945-08-16 22:19 G 27633417.28 27633417.43 27633417.57 0.0544 0.0074

Neptune 70947-07-21 08:24 G 27634120.82 27634120.85 27634120.91 0.0090 0.0086

Neptune 70947-10-17 10:34 G 27634208.87 27634208.94 27634209.03 0.0090 0.0077

Neptune 70948-01-13 12:43 G 27634296.94 27634297.03 27634297.13 0.0090 0.0068

Neptune 70948-04-10 14:39 G 27634385.01 27634385.11 27634385.23 0.0090 0.0059

Neptune 70948-07-07 16:34 G 27634473.08 27634473.19 27634473.33 0.0090 0.0051

Neptune 70948-10-03 18:43 G 27634561.15 27634561.28 27634561.42 0.0090 0.0042

Neptune 70948-12-30 20:39 G 27634649.23 27634649.36 27634649.51 0.0090 0.0033

Mars 70949-01-25 05:03 G 27634674.64 27634674.71 27634674.78 0.1839 0.1526

Neptune 70949-03-28 22:48 G 27634737.30 27634737.45 27634737.60 0.0090 0.0025

Neptune 70949-06-25 00:43 G 27634825.38 27634825.53 27634825.68 0.0090 0.0016

Saturn 70949-07-24 10:48 G 27634854.83 27634854.95 27634855.07 0.0282 0.0167

Neptune 70949-09-21 02:39 G 27634913.46 27634913.61 27634913.76 0.0090 0.0008

Saturn 70949-10-21 02:24 G 27634943.45 27634943.60 27634943.76 0.0282 0.0020

Mars 70949-12-10 14:39 G 27634993.97 27634994.11 27634994.26 0.1677 0.0276

Neptune 70949-12-18 04:34 G 27635001.54 27635001.69 27635001.85 0.0090 0.0003

Saturn 70950-01-17 18:29 G 27635032.13 27635032.27 27635032.41 0.0282 0.0133

Neptune 70950-03-16 06:29 G 27635089.62 27635089.77 27635089.92 0.0090 0.0010

Neptune 70950-06-12 08:24 G 27635177.71 27635177.85 27635178.00 0.0090 0.0018

Neptune 70950-09-08 10:19 G 27635265.79 27635265.93 27635266.08 0.0090 0.0027

Neptune 70950-12-05 12:15 G 27635353.88 27635354.01 27635354.15 0.0089 0.0035

Neptune 70951-03-03 13:55 G 27635441.96 27635442.08 27635442.22 0.0089 0.0044

Neptune 70951-05-30 15:51 G 27635530.05 27635530.16 27635530.29 0.0089 0.0052

Jupiter 70951-07-01 02:24 G 27635561.45 27635561.60 27635561.76 0.0484 0.0037

Neptune 70951-08-26 17:46 G 27635618.14 27635618.24 27635618.36 0.0089 0.0060

Earth 70951-08-27 01:55 G 27635618.52 27635618.58 27635618.65 0.2697 0.2242

Moon 70951-08-27 02:24 G 27635618.53 27635618.60 27635618.66 0.2689 0.2189 *

Neptune 70951-11-22 19:27 G 27635706.23 27635706.31 27635706.42 0.0089 0.0069

Neptune 70952-02-18 21:22 G 27635794.33 27635794.39 27635794.48 0.0089 0.0077

Neptune 70952-05-16 23:17 G 27635882.44 27635882.47 27635882.53 0.0089 0.0085

Moon 70954-02-24 00:15 G 27636530.37 27636530.51 27636530.64 0.2629 0.0560

Earth 70954-02-24 00:43 G 27636530.40 27636530.53 27636530.66 0.2635 0.0693 *

Jupiter 70957-06-04 22:05 G 27637727.31 27637727.42 27637727.54 0.0544 0.0316

Earth 70958-08-19 16:48 G 27638168.10 27638168.20 27638168.30 0.2699 0.1555

Moon 70958-08-19 17:31 G 27638168.13 27638168.23 27638168.34 0.2703 0.1480 *

Mars 70959-05-02 19:55 G 27638424.22 27638424.33 27638424.43 0.1682 0.1159

Mars 70960-05-23 10:19 G 27638810.87 27638810.93 27638810.99 0.1857 0.1608

Jupiter 70963-04-19 05:03 G 27639871.56 27639871.71 27639871.86 0.0484 0.0124

Saturn 70963-12-03 19:55 G 27640100.24 27640100.33 27640100.43 0.0278 0.0215

Saturn 70964-03-01 11:31 G 27640188.83 27640188.98 27640189.13 0.0277 0.0070

Saturn 70964-05-29 02:24 G 27640277.46 27640277.60 27640277.75 0.0277 0.0073

Saturn 70964-08-25 17:17 G 27640366.12 27640366.22 27640366.31 0.0277 0.0210

Venus 70964-11-22 01:41 G 27640454.50 27640454.57 27640454.64 0.3697 0.2864

Moon 70967-02-26 23:31 G 27641281.40 27641281.48 27641281.55 0.2634 0.2205

Earth 70967-02-27 00:29 G 27641281.46 27641281.52 27641281.59 0.2636 0.2269 *

Jupiter 70969-03-23 22:48 G 27642037.45 27642037.45 27642037.46 0.0543 0.0541

Jupiter 70969-06-21 17:17 G 27642127.11 27642127.22 27642127.33 0.0545 0.0342

Mars 70969-10-13 16:19 G 27642241.05 27642241.18 27642241.30 0.1851 0.0554

Venus 70970-06-07 20:53 G 27642478.26 27642478.37 27642478.49 0.3696 0.0719

Mars 70970-08-29 04:19 G 27642560.63 27642560.68 27642560.73 0.1667 0.1548

Earth 70971-08-22 13:55 G 27642918.96 27642919.08 27642919.20 0.2698 0.0164

Moon 70971-08-22 14:53 G 27642919.00 27642919.12 27642919.24 0.2699 0.0009 *

Earth 70974-02-19 07:41 G 27643830.73 27643830.82 27643830.90 0.2633 0.2024

Moon 70974-02-19 08:24 G 27643830.76 27643830.85 27643830.95 0.2628 0.1877 *

Uranus 70974-05-17 11:17 G 27643917.91 27643917.97 27643918.03 0.0143 0.0131

Uranus 70974-08-13 16:48 G 27644006.10 27644006.20 27644006.31 0.0143 0.0106

Uranus 70974-11-09 22:34 G 27644094.31 27644094.44 27644094.57 0.0143 0.0080

Jupiter 70975-02-05 07:12 G 27644181.68 27644181.80 27644181.93 0.0484 0.0283

Uranus 70975-02-06 04:05 G 27644182.53 27644182.67 27644182.83 0.0143 0.0055

Uranus 70975-05-05 09:51 G 27644270.76 27644270.91 27644271.08 0.0143 0.0029

Jupiter 70975-05-05 21:07 G 27644271.29 27644271.38 27644271.48 0.0484 0.0377

Uranus 70975-08-01 15:51 G 27644358.99 27644359.16 27644359.32 0.0143 0.0003

Uranus 70975-10-28 21:36 G 27644447.24 27644447.40 27644447.56 0.0143 0.0024

Uranus 70976-01-25 03:22 G 27644535.49 27644535.64 27644535.80 0.0143 0.0051

Uranus 70976-04-22 09:22 G 27644623.75 27644623.89 27644624.03 0.0143 0.0077

Uranus 70976-07-19 15:22 G 27644712.03 27644712.14 27644712.25 0.0142 0.0104

Uranus 70976-10-15 21:07 G 27644800.32 27644800.38 27644800.45 0.0142 0.0131

Saturn 70978-12-11 12:00 G 27645586.90 27645587.00 27645587.10 0.0281 0.0207

Mars 70979-03-05 22:34 G 27645671.32 27645671.44 27645671.57 0.1845 0.0444

Saturn 70979-03-10 03:22 G 27645675.49 27645675.64 27645675.79 0.0282 0.0061

Saturn 70979-06-06 19:12 G 27645764.15 27645764.30 27645764.45 0.0282 0.0089

Saturn 70979-09-03 11:17 G 27645852.90 27645852.97 27645853.06 0.0282 0.0243

Mars 70980-01-19 09:51 G 27645990.78 27645990.91 27645991.04 0.1672 0.0715

Jupiter 70981-04-09 18:58 G 27646437.15 27646437.29 27646437.43 0.0545 0.0137

Venus 70983-01-17 15:36 G 27647085.03 27647085.15 27647085.27 0.3675 0.1194

Earth 70984-08-24 10:48 G 27647669.84 27647669.95 27647670.06 0.2697 0.1185

Moon 70984-08-24 11:17 G 27647669.86 27647669.97 27647670.08 0.2692 0.1177 *

Jupiter 70986-11-24 09:36 G 27648491.84 27648491.90 27648491.97 0.0485 0.0439

Jupiter 70987-02-21 23:17 G 27648581.33 27648581.47 27648581.61 0.0484 0.0214

Moon 70987-02-22 06:43 G 27648581.65 27648581.78 27648581.92 0.2628 0.0617

Earth 70987-02-22 06:43 G 27648581.65 27648581.78 27648581.91 0.2634 0.0549 *

Mars 70988-07-26 05:03 G 27649101.64 27649101.71 27649101.79 0.1839 0.1414

Venus 70988-08-02 13:12 G 27649108.98 27649109.05 27649109.12 0.3676 0.3048

Mars 70989-06-10 15:07 G 27649420.99 27649421.13 27649421.28 0.1677 0.0142

Moon 70991-08-18 00:58 G 27650219.52 27650219.54 27650219.56 0.2707 0.2663

Jupiter 70993-01-26 20:39 G 27650747.22 27650747.36 27650747.51 0.0544 0.0068

Saturn 70993-04-21 18:58 G 27650832.28 27650832.29 27650832.32 0.0277 0.0273

Saturn 70993-07-19 10:48 G 27650920.81 27650920.95 27650921.09 0.0277 0.0127

Saturn 70993-10-16 01:55 G 27651009.43 27651009.58 27651009.73 0.0277 0.0016

Saturn 70994-01-12 16:48 G 27651098.08 27651098.20 27651098.33 0.0277 0.0155

Earth 70997-08-27 07:12 G 27652420.76 27652420.80 27652420.85 0.2696 0.2486

Moon 70997-08-27 07:27 G 27652420.77 27652420.81 27652420.84 0.2690 0.2559 *

Mars 70998-10-31 20:10 G 27652851.22 27652851.34 27652851.45 0.1682 0.1036

Jupiter 70998-12-11 01:12 G 27652891.40 27652891.55 27652891.71 0.0484 0.0047

Mars 70999-11-22 10:19 G 27653237.89 27653237.93 27653237.98 0.1857 0.1722

Moon 71000-02-25 05:46 G 27653332.61 27653332.74 27653332.86 0.2629 0.1002

Earth 71000-02-25 06:15 G 27653332.64 27653332.76 27653332.89 0.2635 0.0983 *

72ND MILLENNIUM CE

This is a list of transits of Mercury in the 72nd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Pluto 71004-01-01 14:24 G 27654738.05 27654738.10 27654738.18 0.0080 0.0072

Pluto 71004-03-29 16:05 G 27654826.06 27654826.17 27654826.31 0.0080 0.0051

Pluto 71004-06-25 18:00 G 27654914.11 27654914.25 27654914.41 0.0080 0.0030

Earth 71004-08-20 22:05 G 27654970.32 27654970.42 27654970.53 0.2699 0.1291

Moon 71004-08-20 23:03 G 27654970.35 27654970.46 27654970.57 0.2702 0.1233 *

Pluto 71004-09-21 19:55 G 27655002.17 27655002.33 27655002.50 0.0079 0.0008

Jupiter 71004-11-15 21:51 G 27655057.29 27655057.41 27655057.54 0.0544 0.0283

Pluto 71004-12-18 21:36 G 27655090.25 27655090.40 27655090.57 0.0079 0.0014

Pluto 71005-03-16 23:17 G 27655178.34 27655178.47 27655178.63 0.0079 0.0034

Pluto 71005-06-13 00:58 G 27655266.44 27655266.54 27655266.67 0.0079 0.0055

Pluto 71005-09-09 02:39 G 27655354.58 27655354.61 27655354.67 0.0079 0.0076

Saturn 71008-04-30 11:31 G 27656318.93 27656318.98 27656319.03 0.0281 0.0263

Saturn 71008-07-28 02:53 G 27656407.48 27656407.62 27656407.76 0.0282 0.0118

Saturn 71008-10-24 18:43 G 27656496.12 27656496.28 27656496.43 0.0282 0.0032

Saturn 71009-01-21 10:34 G 27656584.83 27656584.94 27656585.06 0.0282 0.0184

Mars 71009-04-14 16:34 G 27656668.07 27656668.19 27656668.30 0.1851 0.0682

Mars 71010-02-28 04:34 G 27656987.68 27656987.69 27656987.70 0.1668 0.1661

Jupiter 71010-09-30 03:36 G 27657201.50 27657201.65 27657201.80 0.0484 0.0111

Moon 71013-02-28 05:03 G 27658083.65 27658083.71 27658083.77 0.2635 0.2378

Earth 71013-02-28 06:15 G 27658083.74 27658083.76 27658083.79 0.2636 0.2575 *

Jupiter 71016-09-03 21:51 G 27659367.37 27659367.41 27659367.44 0.0543 0.0525

Jupiter 71016-12-02 16:05 G 27659457.06 27659457.17 27659457.28 0.0544 0.0357

Uranus 71017-08-22 06:58 G 27659719.73 27659719.79 27659719.88 0.0135 0.0119

Earth 71017-08-23 19:12 G 27659721.18 27659721.30 27659721.42 0.2698 0.0103

Moon 71017-08-23 20:10 G 27659721.21 27659721.34 27659721.46 0.2698 0.0178 *

Uranus 71017-11-18 11:31 G 27659807.88 27659807.98 27659808.09 0.0135 0.0097

Uranus 71018-02-14 15:51 G 27659896.04 27659896.16 27659896.29 0.0135 0.0076

Uranus 71018-05-13 20:10 G 27659984.20 27659984.34 27659984.48 0.0135 0.0055

Uranus 71018-08-10 00:29 G 27660072.37 27660072.52 27660072.67 0.0135 0.0035

Mars 71018-09-04 22:34 G 27660098.31 27660098.44 27660098.56 0.1845 0.0340

Uranus 71018-11-06 04:48 G 27660160.55 27660160.70 27660160.85 0.0135 0.0014

Uranus 71019-02-02 08:53 G 27660248.72 27660248.87 27660249.02 0.0135 0.0006

Uranus 71019-05-01 13:12 G 27660336.90 27660337.05 27660337.19 0.0136 0.0027

Mars 71019-07-21 10:19 G 27660417.80 27660417.93 27660418.05 0.1672 0.0844

Uranus 71019-07-28 17:17 G 27660425.08 27660425.22 27660425.36 0.0136 0.0047

Uranus 71019-10-24 21:22 G 27660513.26 27660513.39 27660513.52 0.0136 0.0067

Uranus 71020-01-21 01:27 G 27660601.45 27660601.56 27660601.67 0.0136 0.0087

Earth 71020-02-21 13:12 G 27660632.95 27660633.05 27660633.15 0.2633 0.1746

Moon 71020-02-21 13:55 G 27660632.98 27660633.08 27660633.18 0.2629 0.1701 *

Uranus 71020-04-18 05:31 G 27660689.64 27660689.73 27660689.82 0.0136 0.0107

Uranus 71020-07-15 09:22 G 27660777.85 27660777.89 27660777.95 0.0136 0.0127

Venus 71021-06-30 00:00 G 27661127.40 27661127.50 27661127.61 0.3697 0.1532

Jupiter 71022-07-19 06:00 G 27661511.63 27661511.75 27661511.88 0.0485 0.0269

Jupiter 71022-10-16 20:10 G 27661601.25 27661601.34 27661601.43 0.0484 0.0393

Saturn 71022-12-07 12:43 G 27661652.91 27661653.03 27661653.16 0.0278 0.0159

Saturn 71023-03-06 04:05 G 27661741.52 27661741.67 27661741.83 0.0277 0.0015

Saturn 71023-06-02 18:58 G 27661830.16 27661830.29 27661830.43 0.0277 0.0127

Saturn 71023-08-30 09:36 G 27661918.86 27661918.90 27661918.95 0.0277 0.0263

Venus 71027-01-13 19:12 G 27663151.21 27663151.30 27663151.40 0.3695 0.2016

Mars 71028-01-26 05:17 G 27663528.63 27663528.72 27663528.81 0.1840 0.1297

Jupiter 71028-09-20 17:17 G 27663767.08 27663767.22 27663767.36 0.0544 0.0140

Mars 71028-12-10 15:36 G 27663848.00 27663848.15 27663848.30 0.1677 0.0018

Earth 71030-08-26 15:51 G 27664472.06 27664472.16 27664472.27 0.2697 0.1434

Moon 71030-08-26 16:34 G 27664472.09 27664472.19 27664472.29 0.2691 0.1546 *

Neptune 71030-09-26 09:51 G 27664502.87 27664502.91 27664502.98 0.0088 0.0083

Neptune 71030-12-23 12:15 G 27664590.93 27664591.01 27664591.10 0.0088 0.0074

Neptune 71031-03-21 14:24 G 27664679.01 27664679.10 27664679.22 0.0088 0.0066

Neptune 71031-06-17 16:48 G 27664767.08 27664767.20 27664767.33 0.0088 0.0057

Neptune 71031-09-13 18:58 G 27664855.17 27664855.29 27664855.44 0.0088 0.0049

Neptune 71031-12-10 21:22 G 27664943.25 27664943.39 27664943.54 0.0088 0.0040

Neptune 71032-03-07 23:46 G 27665031.34 27665031.49 27665031.64 0.0088 0.0031

Neptune 71032-06-04 01:55 G 27665119.43 27665119.58 27665119.75 0.0088 0.0023

Neptune 71032-08-31 04:19 G 27665207.52 27665207.68 27665207.85 0.0088 0.0014

Neptune 71032-11-27 06:43 G 27665295.62 27665295.78 27665295.95 0.0088 0.0005

Neptune 71033-02-23 09:07 G 27665383.71 27665383.88 27665384.04 0.0088 0.0004

Moon 71033-02-23 12:15 G 27665383.87 27665384.01 27665384.15 0.2627 0.0216 *

Earth 71033-02-23 12:29 G 27665383.88 27665384.02 27665384.15 0.2634 0.0274 *

Neptune 71033-05-22 11:17 G 27665471.81 27665471.97 27665472.14 0.0088 0.0013

Neptune 71033-08-18 13:41 G 27665559.91 27665560.07 27665560.24 0.0088 0.0022

Neptune 71033-11-14 16:05 G 27665648.02 27665648.17 27665648.33 0.0088 0.0031

Neptune 71034-02-10 18:15 G 27665736.13 27665736.26 27665736.42 0.0088 0.0040

Jupiter 71034-05-07 08:24 G 27665821.78 27665821.85 27665821.92 0.0485 0.0426

Neptune 71034-05-09 20:39 G 27665824.24 27665824.36 27665824.51 0.0088 0.0049

Jupiter 71034-08-04 22:05 G 27665911.28 27665911.42 27665911.56 0.0484 0.0227

Neptune 71034-08-05 23:03 G 27665912.35 27665912.46 27665912.60 0.0088 0.0058

Neptune 71034-11-02 01:27 G 27666000.47 27666000.56 27666000.68 0.0088 0.0067

Neptune 71035-01-29 03:51 G 27666088.60 27666088.66 27666088.76 0.0088 0.0076

Neptune 71035-04-27 06:15 G 27666176.74 27666176.76 27666176.82 0.0088 0.0085

Earth 71037-08-19 06:15 G 27667021.71 27667021.76 27667021.81 0.2700 0.2444

Moon 71037-08-19 06:29 G 27667021.72 27667021.77 27667021.82 0.2706 0.2488 *

Saturn 71037-12-15 04:19 G 27667139.55 27667139.68 27667139.81 0.0281 0.0156

Saturn 71038-03-13 19:55 G 27667228.17 27667228.33 27667228.48 0.0282 0.0009

Mars 71038-05-02 20:39 G 27667278.23 27667278.36 27667278.48 0.1682 0.0907

Saturn 71038-06-10 11:46 G 27667316.86 27667316.99 27667317.13 0.0282 0.0143

Mars 71039-05-24 10:48 G 27667664.94 27667664.95 27667664.95 0.1857 0.1852

Venus 71039-08-25 14:39 G 27667757.98 27667758.11 27667758.23 0.3675 0.0330

Jupiter 71040-07-09 18:43 G 27668077.13 27668077.28 27668077.42 0.0544 0.0073

Moon 71043-08-29 12:15 G 27669223.00 27669223.01 27669223.03 0.2690 0.2647

Moon 71046-02-26 11:17 G 27670134.84 27670134.97 27670135.09 0.2630 0.1119

Earth 71046-02-26 12:00 G 27670134.88 27670135.00 27670135.12 0.2635 0.1278 *

Jupiter 71046-05-24 00:15 G 27670221.36 27670221.51 27670221.67 0.0484 0.0066

Mars 71048-10-13 16:34 G 27671095.07 27671095.19 27671095.30 0.1851 0.0795

Earth 71050-08-22 03:22 G 27671772.53 27671772.64 27671772.76 0.2699 0.1028

Moon 71050-08-22 04:19 G 27671772.56 27671772.68 27671772.80 0.2702 0.0887 *

Saturn 71052-04-25 12:15 G 27672384.91 27672385.01 27672385.11 0.0277 0.0214

Jupiter 71052-04-27 20:10 G 27672387.22 27672387.34 27672387.47 0.0544 0.0279

Saturn 71052-07-23 03:36 G 27672473.51 27672473.65 27672473.81 0.0277 0.0070

Saturn 71052-10-19 18:43 G 27672562.14 27672562.28 27672562.43 0.0277 0.0073

Saturn 71053-01-16 09:36 G 27672650.80 27672650.90 27672651.00 0.0277 0.0210

Mars 71058-03-05 22:48 G 27674525.32 27674525.45 27674525.57 0.1845 0.0224

Jupiter 71058-03-12 02:24 G 27674531.44 27674531.60 27674531.75 0.0484 0.0100

Uranus 71058-06-07 19:27 G 27674619.22 27674619.31 27674619.39 0.0143 0.0120

Uranus 71058-09-04 00:43 G 27674707.42 27674707.53 27674707.66 0.0143 0.0096

Uranus 71058-12-01 06:43 G 27674795.64 27674795.78 27674795.92 0.0143 0.0069

Mars 71059-01-19 10:34 G 27674844.82 27674844.94 27674845.06 0.1672 0.0962

Uranus 71059-02-27 12:15 G 27674883.86 27674884.01 27674884.17 0.0143 0.0044

Uranus 71059-05-26 18:00 G 27674972.09 27674972.25 27674972.42 0.0143 0.0018

Uranus 71059-08-22 23:46 G 27675060.33 27675060.49 27675060.66 0.0143 0.0010

Uranus 71059-11-19 05:31 G 27675148.58 27675148.73 27675148.90 0.0143 0.0036

Uranus 71060-02-15 11:31 G 27675236.83 27675236.98 27675237.13 0.0143 0.0062

Uranus 71060-05-13 17:17 G 27675325.10 27675325.22 27675325.36 0.0143 0.0089

Uranus 71060-08-09 23:17 G 27675413.38 27675413.47 27675413.57 0.0142 0.0115

Uranus 71060-11-06 05:17 G 27675501.72 27675501.72 27675501.73 0.0142 0.0142

Earth 71063-08-25 00:29 G 27676523.39 27676523.52 27676523.64 0.2698 0.0360

Moon 71063-08-25 01:12 G 27676523.43 27676523.55 27676523.67 0.2696 0.0438 *

Jupiter 71064-02-14 21:22 G 27676697.33 27676697.39 27676697.45 0.0544 0.0495

Jupiter 71064-05-14 15:51 G 27676787.06 27676787.16 27676787.26 0.0545 0.0389

Earth 71066-02-21 18:43 G 27677435.17 27677435.28 27677435.39 0.2633 0.1472

Moon 71066-02-21 19:12 G 27677435.19 27677435.30 27677435.42 0.2628 0.1403 *

Saturn 71067-05-04 03:36 G 27677871.56 27677871.65 27677871.75 0.0281 0.0213

Mars 71067-07-27 05:17 G 27677955.62 27677955.72 27677955.81 0.1839 0.1188

Saturn 71067-07-31 18:58 G 27677960.15 27677960.29 27677960.45 0.0281 0.0068

Saturn 71067-10-28 10:48 G 27678048.80 27678048.95 27678049.10 0.0282 0.0083

Saturn 71068-01-25 03:07 G 27678137.54 27678137.63 27678137.71 0.0282 0.0236

Mars 71068-06-10 15:51 G 27678275.02 27678275.16 27678275.31 0.1677 0.0108

Jupiter 71069-12-29 04:48 G 27678841.57 27678841.70 27678841.83 0.0485 0.0256

Jupiter 71070-03-28 18:58 G 27678931.20 27678931.29 27678931.37 0.0484 0.0405

Jupiter 71076-03-02 16:05 G 27681097.03 27681097.17 27681097.31 0.0544 0.0155

Earth 71076-08-26 21:07 G 27681274.29 27681274.38 27681274.47 0.2697 0.1682

Moon 71076-08-26 21:36 G 27681274.31 27681274.40 27681274.50 0.2691 0.1688 *

Mars 71077-10-31 21:07 G 27681705.25 27681705.38 27681705.51 0.1682 0.0766

Venus 71078-02-03 22:34 G 27681800.32 27681800.44 27681800.55 0.3696 0.0206

Moon 71079-02-24 17:46 G 27682186.10 27682186.24 27682186.38 0.2627 0.0048

Earth 71079-02-24 18:00 G 27682186.11 27682186.25 27682186.38 0.2634 0.0063 *

Saturn 71081-09-12 13:55 G 27683117.02 27683117.08 27683117.15 0.0278 0.0249

Jupiter 71081-10-17 07:12 G 27683151.73 27683151.80 27683151.88 0.0485 0.0414

Saturn 71081-12-10 05:46 G 27683205.59 27683205.74 27683205.88 0.0278 0.0102

Jupiter 71082-01-14 20:53 G 27683241.24 27683241.37 27683241.51 0.0484 0.0242

Saturn 71082-03-08 20:53 G 27683294.22 27683294.37 27683294.52 0.0278 0.0041

Saturn 71082-06-05 11:46 G 27683382.88 27683382.99 27683383.11 0.0277 0.0181

Earth 71083-08-20 11:31 G 27683823.91 27683823.98 27683824.05 0.2700 0.2178

Moon 71083-08-20 12:00 G 27683823.92 27683824.00 27683824.08 0.2705 0.2057 *

Venus 71083-08-20 17:31 G 27683824.18 27683824.23 27683824.28 0.3695 0.3299

Jupiter 71087-12-20 17:03 G 27685407.07 27685407.21 27685407.36 0.0544 0.0066

Mars 71088-04-13 16:34 G 27685522.08 27685522.19 27685522.30 0.1851 0.0906

Venus 71090-09-15 16:05 G 27686407.08 27686407.17 27686407.27 0.3674 0.2305

Moon 71092-02-27 16:34 G 27686937.08 27686937.19 27686937.30 0.2632 0.1542

Earth 71092-02-27 17:31 G 27686937.13 27686937.23 27686937.34 0.2635 0.1575 *

Jupiter 71093-11-02 23:03 G 27687551.30 27687551.46 27687551.61 0.0484 0.0077

Venus 71096-03-31 13:27 G 27688430.96 27688431.06 27688431.17 0.3675 0.1855

Earth 71096-08-22 08:39 G 27688574.74 27688574.86 27688574.98 0.2699 0.0765

Moon 71096-08-22 09:36 G 27688574.78 27688574.90 27688575.02 0.2702 0.0729 *

Saturn 71096-09-20 05:31 G 27688603.66 27688603.73 27688603.81 0.0281 0.0246

Saturn 71096-12-17 20:53 G 27688692.23 27688692.37 27688692.52 0.0281 0.0101

Saturn 71097-03-16 12:43 G 27688780.87 27688781.03 27688781.18 0.0281 0.0048

Saturn 71097-06-13 04:34 G 27688869.58 27688869.69 27688869.80 0.0282 0.0200

Mars 71097-09-03 22:48 G 27688952.32 27688952.45 27688952.58 0.1845 0.0098

Mars 71098-07-20 10:48 G 27689271.84 27689271.95 27689272.06 0.1672 0.1083

Moon 71099-02-20 02:24 G 27689486.58 27689486.60 27689486.62 0.2630 0.2586

Jupiter 71099-10-08 18:15 G 27689717.13 27689717.26 27689717.38 0.0544 0.0283

Uranus 71101-06-16 10:34 G 27690332.91 27690332.94 27690332.98 0.0135 0.0130

Uranus 71101-09-12 14:53 G 27690421.04 27690421.12 27690421.22 0.0135 0.0109

Uranus 71101-12-09 19:12 G 27690509.19 27690509.30 27690509.42 0.0135 0.0088

Uranus 71102-03-07 23:46 G 27690597.36 27690597.49 27690597.62 0.0135 0.0067

Uranus 71102-06-04 03:51 G 27690685.52 27690685.66 27690685.81 0.0135 0.0047

Uranus 71102-08-31 08:10 G 27690773.69 27690773.84 27690773.99 0.0135 0.0026

Uranus 71102-11-27 12:29 G 27690861.87 27690862.02 27690862.17 0.0135 0.0006

Uranus 71103-02-23 16:34 G 27690950.04 27690950.19 27690950.34 0.0135 0.0015

Uranus 71103-05-22 20:39 G 27691038.22 27691038.36 27691038.51 0.0136 0.0035

Uranus 71103-08-19 00:43 G 27691126.40 27691126.53 27691126.67 0.0136 0.0056

Uranus 71103-11-15 04:48 G 27691214.59 27691214.70 27691214.83 0.0136 0.0076

Uranus 71104-02-11 08:53 G 27691302.77 27691302.87 27691302.98 0.0136 0.0096

Uranus 71104-05-09 12:58 G 27691390.97 27691391.04 27691391.12 0.0136 0.0115

Uranus 71104-08-05 17:03 G 27691479.20 27691479.21 27691479.23 0.0136 0.0135

Jupiter 71105-08-23 01:27 G 27691861.40 27691861.56 27691861.71 0.0484 0.0084

Mars 71107-01-26 05:17 G 27692382.62 27692382.72 27692382.82 0.1839 0.1073

Mars 71107-12-11 16:19 G 27692702.03 27692702.18 27692702.32 0.1677 0.0236

Earth 71109-08-26 05:31 G 27693325.62 27693325.73 27693325.85 0.2698 0.0615

Moon 71109-08-26 06:29 G 27693325.65 27693325.77 27693325.89 0.2694 0.0724 *

Saturn 71111-04-30 05:31 G 27693937.60 27693937.73 27693937.86 0.0277 0.0155

Saturn 71111-07-27 20:53 G 27694026.22 27694026.37 27694026.53 0.0277 0.0011

Jupiter 71111-07-28 19:41 G 27694027.26 27694027.32 27694027.38 0.0544 0.0494

Saturn 71111-10-24 11:46 G 27694114.86 27694114.99 27694115.13 0.0277 0.0130

Jupiter 71111-10-26 13:55 G 27694116.99 27694117.08 27694117.18 0.0545 0.0391

Saturn 71112-01-21 02:39 G 27694203.57 27694203.61 27694203.65 0.0277 0.0266

Earth 71112-02-24 00:15 G 27694237.39 27694237.51 27694237.63 0.2634 0.1187

Moon 71112-02-24 00:29 G 27694237.40 27694237.52 27694237.65 0.2627 0.1124 *

Neptune 71112-04-18 06:43 G 27694291.74 27694291.78 27694291.85 0.0090 0.0084

Neptune 71112-07-15 08:53 G 27694379.80 27694379.87 27694379.96 0.0090 0.0075

Neptune 71112-10-11 11:03 G 27694467.86 27694467.96 27694468.07 0.0090 0.0066

Neptune 71113-01-07 13:12 G 27694555.93 27694556.05 27694556.17 0.0090 0.0057

Neptune 71113-04-05 14:53 G 27694644.01 27694644.12 27694644.26 0.0090 0.0049

Neptune 71113-07-02 17:03 G 27694732.08 27694732.21 27694732.35 0.0090 0.0040

Neptune 71113-09-28 19:12 G 27694820.16 27694820.30 27694820.44 0.0090 0.0031

Neptune 71113-12-25 21:07 G 27694908.24 27694908.38 27694908.53 0.0090 0.0022

Neptune 71114-03-23 23:17 G 27694996.32 27694996.47 27694996.62 0.0090 0.0014

Neptune 71114-06-20 01:12 G 27695084.40 27695084.55 27695084.70 0.0090 0.0005

Neptune 71114-09-16 03:07 G 27695172.48 27695172.63 27695172.78 0.0090 0.0003

Neptune 71114-12-13 05:03 G 27695260.56 27695260.71 27695260.86 0.0090 0.0012

Neptune 71115-03-11 06:58 G 27695348.65 27695348.79 27695348.94 0.0090 0.0020

Neptune 71115-06-07 08:53 G 27695436.73 27695436.87 27695437.01 0.0089 0.0029

Neptune 71115-09-03 10:34 G 27695524.82 27695524.94 27695525.09 0.0089 0.0038

Neptune 71115-11-30 12:43 G 27695612.90 27695613.03 27695613.16 0.0089 0.0046

Neptune 71116-02-26 14:39 G 27695700.99 27695701.11 27695701.23 0.0089 0.0054

Neptune 71116-05-24 16:19 G 27695789.08 27695789.18 27695789.30 0.0089 0.0062

Neptune 71116-08-20 18:15 G 27695877.18 27695877.26 27695877.36 0.0089 0.0071

Neptune 71116-11-16 20:10 G 27695965.28 27695965.34 27695965.41 0.0089 0.0079

Neptune 71117-02-12 22:05 G 27696053.39 27696053.42 27696053.45 0.0089 0.0087

Mars 71117-05-02 21:22 G 27696132.25 27696132.39 27696132.52 0.1682 0.0648

Jupiter 71117-06-11 03:22 G 27696171.51 27696171.64 27696171.78 0.0484 0.0247

Jupiter 71117-09-08 17:17 G 27696261.15 27696261.22 27696261.31 0.0484 0.0415

Earth 71122-08-29 02:24 G 27698076.51 27698076.60 27698076.68 0.2697 0.1933

Moon 71122-08-29 02:39 G 27698076.53 27698076.61 27698076.69 0.2691 0.1991 *

Jupiter 71123-08-14 15:36 G 27698427.01 27698427.15 27698427.29 0.0544 0.0183

Moon 71125-02-25 23:17 G 27698988.33 27698988.47 27698988.61 0.2628 0.0309

Earth 71125-02-25 23:31 G 27698988.35 27698988.48 27698988.62 0.2634 0.0313 *

Saturn 71126-05-07 20:10 G 27699424.22 27699424.34 27699424.47 0.0281 0.0159

Saturn 71126-08-04 11:46 G 27699512.83 27699512.99 27699513.14 0.0281 0.0013

Mars 71126-09-23 01:55 G 27699562.53 27699562.58 27699562.64 0.1687 0.1561

Saturn 71126-11-01 03:36 G 27699601.52 27699601.65 27699601.79 0.0282 0.0138

Mars 71127-10-14 16:34 G 27699949.09 27699949.19 27699949.30 0.1851 0.1023

Venus 71129-02-26 01:41 G 27700449.48 27700449.57 27700449.65 0.3697 0.2484

Jupiter 71129-03-30 06:00 G 27700481.67 27700481.75 27700481.84 0.0485 0.0402

Jupiter 71129-06-27 19:41 G 27700571.18 27700571.32 27700571.45 0.0484 0.0252

Earth 71129-08-21 16:48 G 27700626.11 27700626.20 27700626.29 0.2700 0.1907

Moon 71129-08-21 17:31 G 27700626.14 27700626.23 27700626.31 0.2705 0.1923 *

Venus 71134-09-11 20:53 G 27702473.26 27702473.37 27702473.48 0.3696 0.1122

Jupiter 71135-06-02 15:51 G 27702737.02 27702737.16 27702737.31 0.0544 0.0053

Mars 71137-03-05 22:48 G 27703379.32 27703379.45 27703379.57 0.1845 0.0038

Mars 71138-01-19 11:17 G 27703698.87 27703698.97 27703699.07 0.1672 0.1209

Moon 71138-02-28 22:05 G 27703739.32 27703739.42 27703739.53 0.2633 0.1695

Earth 71138-02-28 23:17 G 27703739.37 27703739.47 27703739.56 0.2635 0.1868 *

Saturn 71140-09-16 07:12 G 27704669.69 27704669.80 27704669.91 0.0278 0.0191

Saturn 71140-12-13 22:48 G 27704758.29 27704758.45 27704758.60 0.0278 0.0045

Saturn 71141-03-12 13:55 G 27704846.93 27704847.08 27704847.22 0.0278 0.0097

Jupiter 71141-04-15 21:36 G 27704881.25 27704881.40 27704881.56 0.0485 0.0090

Saturn 71141-06-09 04:34 G 27704935.62 27704935.69 27704935.77 0.0278 0.0236

Uranus 71142-04-01 21:22 G 27705232.35 27705232.39 27705232.44 0.0143 0.0137

Uranus 71142-06-29 02:53 G 27705320.53 27705320.62 27705320.73 0.0143 0.0111

Earth 71142-08-24 13:55 G 27705376.96 27705377.08 27705377.20 0.2699 0.0503

Moon 71142-08-24 14:53 G 27705377.00 27705377.12 27705377.24 0.2700 0.0345 *

Uranus 71142-09-25 08:39 G 27705408.73 27705408.86 27705408.99 0.0143 0.0086

Uranus 71142-12-22 14:10 G 27705496.95 27705497.09 27705497.25 0.0143 0.0060

Uranus 71143-03-20 19:55 G 27705585.18 27705585.33 27705585.49 0.0143 0.0034

Uranus 71143-06-17 01:41 G 27705673.41 27705673.57 27705673.74 0.0143 0.0009

Uranus 71143-09-13 07:27 G 27705761.65 27705761.81 27705761.98 0.0143 0.0019

Uranus 71143-12-10 13:27 G 27705849.90 27705850.06 27705850.22 0.0143 0.0045

Uranus 71144-03-07 19:12 G 27705938.16 27705938.30 27705938.45 0.0143 0.0072

Uranus 71144-06-04 00:58 G 27706026.43 27706026.54 27706026.67 0.0143 0.0099

Uranus 71144-08-31 07:12 G 27706114.72 27706114.80 27706114.88 0.0143 0.0125

Earth 71145-02-21 06:43 G 27706288.73 27706288.78 27706288.84 0.2633 0.2360

Moon 71145-02-21 07:41 G 27706288.75 27706288.82 27706288.90 0.2630 0.2193 *

Mars 71146-07-27 05:31 G 27706809.62 27706809.73 27706809.83 0.1840 0.0961

Jupiter 71147-03-21 16:34 G 27707047.07 27707047.19 27707047.32 0.0543 0.0277

Venus 71147-04-23 15:07 G 27707080.01 27707080.13 27707080.25 0.3674 0.0821

Mars 71147-06-11 16:48 G 27707129.05 27707129.20 27707129.34 0.1677 0.0364

Venus 71152-11-06 12:29 G 27709103.97 27709104.02 27709104.07 0.3676 0.3391

Jupiter 71153-02-01 23:46 G 27709191.34 27709191.49 27709191.65 0.0484 0.0075

Earth 71155-08-27 10:48 G 27710127.84 27710127.95 27710128.07 0.2698 0.0862

Moon 71155-08-27 11:46 G 27710127.87 27710127.99 27710128.10 0.2694 0.0900 *

Saturn 71155-09-24 22:34 G 27710156.33 27710156.44 27710156.55 0.0281 0.0189

Saturn 71155-12-22 13:55 G 27710244.93 27710245.08 27710245.24 0.0281 0.0044

Saturn 71156-03-20 05:46 G 27710333.60 27710333.74 27710333.88 0.0281 0.0106

Saturn 71156-06-16 21:51 G 27710422.36 27710422.41 27710422.47 0.0282 0.0259

Mars 71156-10-31 21:51 G 27710559.27 27710559.41 27710559.55 0.1682 0.0517

Earth 71158-02-24 05:46 G 27711039.62 27711039.74 27711039.87 0.2634 0.0906

Moon 71158-02-24 06:00 G 27711039.63 27711039.75 27711039.88 0.2627 0.0930 *

Jupiter 71159-01-07 17:17 G 27711357.17 27711357.22 27711357.28 0.0544 0.0500

Jupiter 71159-04-07 11:46 G 27711446.89 27711446.99 27711447.09 0.0545 0.0384

Pluto 71161-06-05 19:41 G 27712237.31 27712237.32 27712237.36 0.0064 0.0063

Pluto 71161-09-01 20:24 G 27712325.28 27712325.35 27712325.45 0.0064 0.0053

Pluto 71161-11-28 21:22 G 27712413.28 27712413.39 27712413.51 0.0065 0.0042

Pluto 71162-02-24 21:51 G 27712501.29 27712501.41 27712501.56 0.0065 0.0032

Pluto 71162-05-23 22:48 G 27712589.31 27712589.45 27712589.61 0.0065 0.0021

Pluto 71162-08-19 23:46 G 27712677.34 27712677.49 27712677.64 0.0065 0.0010

Pluto 71162-11-16 00:29 G 27712765.37 27712765.52 27712765.68 0.0065 0.0002

Pluto 71163-02-12 01:12 G 27712853.40 27712853.55 27712853.71 0.0065 0.0012

Pluto 71163-05-11 01:55 G 27712941.44 27712941.58 27712941.73 0.0065 0.0023

Pluto 71163-08-07 02:24 G 27713029.49 27713029.60 27713029.75 0.0065 0.0035

Pluto 71163-11-03 03:07 G 27713117.54 27713117.63 27713117.76 0.0065 0.0046

Pluto 71164-01-30 03:51 G 27713205.60 27713205.66 27713205.76 0.0065 0.0057

Jupiter 71164-11-21 02:10 G 27713501.46 27713501.59 27713501.73 0.0485 0.0233

Jupiter 71165-02-18 16:05 G 27713591.11 27713591.17 27713591.25 0.0484 0.0429

Mars 71166-03-24 02:24 G 27713989.52 27713989.60 27713989.68 0.1687 0.1430

Mars 71167-04-14 16:48 G 27714376.10 27714376.20 27714376.30 0.1851 0.1144

Earth 71168-08-29 07:27 G 27714878.74 27714878.81 27714878.88 0.2697 0.2181

Moon 71168-08-29 07:41 G 27714878.75 27714878.82 27714878.89 0.2690 0.2200 *

Saturn 71170-02-03 07:12 G 27715401.73 27715401.80 27715401.88 0.0278 0.0241

Saturn 71170-05-02 23:03 G 27715490.31 27715490.46 27715490.60 0.0277 0.0094

Saturn 71170-07-30 14:10 G 27715578.94 27715579.09 27715579.25 0.0277 0.0049

Saturn 71170-10-27 05:03 G 27715667.60 27715667.71 27715667.83 0.0277 0.0188

Jupiter 71171-01-24 13:41 G 27715756.93 27715757.07 27715757.20 0.0545 0.0181

Moon 71171-02-27 04:34 G 27715790.56 27715790.69 27715790.83 0.2629 0.0559

Earth 71171-02-27 05:03 G 27715790.58 27715790.71 27715790.85 0.2635 0.0609 *

Earth 71175-08-22 22:05 G 27717428.32 27717428.42 27717428.52 0.2699 0.1641

Moon 71175-08-22 22:48 G 27717428.35 27717428.45 27717428.55 0.2705 0.1499 *

Mars 71176-09-03 22:48 G 27717806.32 27717806.45 27717806.58 0.1845 0.0126

Jupiter 71176-09-09 04:34 G 27717811.60 27717811.69 27717811.77 0.0485 0.0394

Jupiter 71176-12-07 18:00 G 27717901.12 27717901.25 27717901.38 0.0484 0.0260

Mars 71177-07-20 11:31 G 27718125.90 27718125.98 27718126.07 0.1672 0.1324

Jupiter 71182-11-12 15:07 G 27720066.98 27720067.13 27720067.28 0.0544 0.0029

Moon 71184-03-01 03:51 G 27720541.58 27720541.66 27720541.74 0.2633 0.2100

Earth 71184-03-01 05:03 G 27720541.63 27720541.71 27720541.78 0.2635 0.2173 *

Saturn 71185-02-10 21:51 G 27720888.35 27720888.41 27720888.49 0.0281 0.0245

Saturn 71185-05-10 13:12 G 27720976.91 27720977.05 27720977.20 0.0281 0.0101

Uranus 71185-07-06 18:29 G 27721034.21 27721034.27 27721034.34 0.0135 0.0120

Saturn 71185-08-07 04:48 G 27721065.55 27721065.70 27721065.86 0.0281 0.0048

Uranus 71185-10-02 22:34 G 27721122.35 27721122.44 27721122.56 0.0135 0.0100

Venus 71185-10-03 00:00 G 27721122.39 27721122.50 27721122.61 0.3697 0.1127 *

Saturn 71185-11-03 20:53 G 27721154.26 27721154.37 27721154.48 0.0282 0.0199

Uranus 71185-12-30 03:07 G 27721210.51 27721210.63 27721210.76 0.0135 0.0079

Mars 71186-01-25 05:31 G 27721236.61 27721236.73 27721236.84 0.1839 0.0849

Uranus 71186-03-28 07:27 G 27721298.68 27721298.81 27721298.95 0.0135 0.0058

Uranus 71186-06-24 11:46 G 27721386.85 27721386.99 27721387.14 0.0135 0.0037

Uranus 71186-09-20 16:05 G 27721475.02 27721475.17 27721475.32 0.0135 0.0017

Mars 71186-12-10 17:03 G 27721556.07 27721556.21 27721556.35 0.1677 0.0484

Uranus 71186-12-17 20:10 G 27721563.19 27721563.34 27721563.49 0.0135 0.0004

Uranus 71187-03-16 00:15 G 27721651.37 27721651.51 27721651.66 0.0135 0.0025

Uranus 71187-06-12 04:19 G 27721739.55 27721739.68 27721739.83 0.0136 0.0045

Uranus 71187-09-08 08:24 G 27721827.73 27721827.85 27721827.99 0.0136 0.0065

Uranus 71187-12-05 12:29 G 27721915.92 27721916.02 27721916.15 0.0136 0.0085

Uranus 71188-03-02 16:48 G 27722004.11 27722004.20 27722004.29 0.0136 0.0104

Uranus 71188-05-29 20:39 G 27722092.31 27722092.36 27722092.43 0.0136 0.0124

Earth 71188-08-24 19:12 G 27722179.18 27722179.30 27722179.42 0.2699 0.0242

Moon 71188-08-24 20:10 G 27722179.22 27722179.34 27722179.46 0.2698 0.0225 *

Jupiter 71188-09-25 20:24 G 27722211.19 27722211.35 27722211.50 0.0484 0.0099

Earth 71191-02-22 12:15 G 27723090.93 27723091.01 27723091.09 0.2633 0.2085

Moon 71191-02-22 13:12 G 27723090.97 27723091.05 27723091.13 0.2629 0.2080 *

Venus 71191-04-18 19:12 G 27723146.22 27723146.30 27723146.39 0.3696 0.2421

Jupiter 71194-08-31 15:22 G 27724377.01 27724377.14 27724377.27 0.0543 0.0262

Neptune 71195-03-28 06:15 G 27724585.76 27724585.76 27724585.77 0.0088 0.0088

Mars 71195-06-17 12:15 G 27724666.98 27724667.01 27724667.03 0.1833 0.1791

Neptune 71195-06-24 08:10 G 27724673.79 27724673.84 27724673.92 0.0088 0.0080

Neptune 71195-09-20 10:34 G 27724761.86 27724761.94 27724762.04 0.0088 0.0071

Neptune 71195-12-17 12:43 G 27724849.93 27724850.03 27724850.16 0.0088 0.0063

Neptune 71196-03-14 15:07 G 27724938.01 27724938.13 27724938.26 0.0088 0.0054

Mars 71196-05-01 22:19 G 27724986.28 27724986.43 27724986.57 0.1682 0.0384

Neptune 71196-06-10 17:17 G 27725026.09 27725026.22 27725026.37 0.0088 0.0046

Neptune 71196-09-06 19:41 G 27725114.18 27725114.32 27725114.47 0.0088 0.0037

Neptune 71196-12-03 22:05 G 27725202.26 27725202.42 27725202.57 0.0088 0.0028

Neptune 71197-03-02 00:15 G 27725290.35 27725290.51 27725290.67 0.0088 0.0020

Neptune 71197-05-29 02:39 G 27725378.45 27725378.61 27725378.77 0.0088 0.0011

Neptune 71197-08-25 05:03 G 27725466.54 27725466.71 27725466.87 0.0088 0.0003

Neptune 71197-11-21 07:12 G 27725554.64 27725554.80 27725554.97 0.0088 0.0007

Neptune 71198-02-17 09:36 G 27725642.74 27725642.90 27725643.06 0.0088 0.0015

Venus 71198-05-14 16:48 G 27725729.15 27725729.20 27725729.24 0.3673 0.3396

Neptune 71198-05-16 11:46 G 27725730.84 27725730.99 27725731.16 0.0088 0.0025

Neptune 71198-08-12 14:24 G 27725818.94 27725819.10 27725819.25 0.0088 0.0033

Neptune 71198-11-08 16:34 G 27725907.05 27725907.19 27725907.34 0.0088 0.0042

Neptune 71199-02-04 18:58 G 27725995.16 27725995.29 27725995.43 0.0088 0.0051

Neptune 71199-05-03 21:22 G 27726083.28 27726083.39 27726083.52 0.0088 0.0060

Neptune 71199-07-30 23:46 G 27726171.40 27726171.49 27726171.60 0.0088 0.0069

Saturn 71199-09-20 00:29 G 27726222.38 27726222.52 27726222.66 0.0278 0.0131

Neptune 71199-10-27 02:10 G 27726259.52 27726259.59 27726259.67 0.0088 0.0078

Saturn 71199-12-17 15:51 G 27726311.01 27726311.16 27726311.32 0.0278 0.0015

Neptune 71200-01-23 04:34 G 27726347.68 27726347.69 27726347.72 0.0088 0.0087

Saturn 71200-03-15 06:58 G 27726399.66 27726399.79 27726399.92 0.0278 0.0155

Jupiter 71200-07-14 22:19 G 27726521.28 27726521.43 27726521.59 0.0485 0.0067

Earth 71201-08-27 16:05 G 27726930.06 27726930.17 27726930.28 0.2698 0.1114

Moon 71201-08-27 16:48 G 27726930.09 27726930.20 27726930.31 0.2694 0.1250 *

Venus 71203-11-28 13:55 G 27727752.95 27727753.08 27727753.20 0.3675 0.0665

Earth 71204-02-25 11:17 G 27727841.84 27727841.97 27727842.11 0.2634 0.0629

Moon 71204-02-25 11:31 G 27727841.85 27727841.98 27727842.12 0.2627 0.0540 *

Mars 71205-09-22 02:39 G 27728416.52 27728416.61 27728416.71 0.1687 0.1302

Jupiter 71206-06-19 15:51 G 27728687.10 27728687.16 27728687.22 0.0543 0.0492

Jupiter 71206-09-17 10:19 G 27728776.83 27728776.93 27728777.03 0.0544 0.0390

Mars 71206-10-13 16:48 G 27728803.10 27728803.20 27728803.29 0.1851 0.1249

Jupiter 71212-05-03 00:29 G 27730831.39 27730831.52 27730831.66 0.0485 0.0228

Jupiter 71212-07-31 14:39 G 27730921.04 27730921.11 27730921.18 0.0484 0.0435

Saturn 71214-07-01 00:58 G 27731620.50 27731620.54 27731620.58 0.0281 0.0270

Moon 71214-08-30 12:43 G 27731680.97 27731681.03 27731681.08 0.2690 0.2381

Earth 71214-08-30 12:43 G 27731680.98 27731681.03 27731681.08 0.2697 0.2426 *

Saturn 71214-09-27 16:05 G 27731709.03 27731709.17 27731709.31 0.0281 0.0127

Saturn 71214-12-25 07:41 G 27731797.66 27731797.82 27731797.97 0.0281 0.0020

Saturn 71215-03-23 23:31 G 27731886.36 27731886.48 27731886.60 0.0281 0.0170

Mars 71216-03-04 23:03 G 27732233.33 27732233.46 27732233.59 0.1845 0.0248

Mars 71217-01-18 12:00 G 27732552.93 27732553.00 27732553.07 0.1672 0.1445

Moon 71217-02-27 10:05 G 27732592.79 27732592.92 27732593.05 0.2630 0.0780

Earth 71217-02-27 10:48 G 27732592.82 27732592.95 27732593.08 0.2634 0.0898 *

Jupiter 71218-07-06 11:17 G 27733086.84 27733086.97 27733087.11 0.0544 0.0175

Earth 71221-08-23 03:22 G 27734230.54 27734230.64 27734230.75 0.2699 0.1371

Moon 71221-08-23 04:05 G 27734230.57 27734230.67 27734230.78 0.2704 0.1360 *

Jupiter 71224-02-20 03:07 G 27735141.54 27735141.63 27735141.72 0.0485 0.0383

Jupiter 71224-05-19 16:34 G 27735231.07 27735231.19 27735231.33 0.0484 0.0271

Mars 71225-07-26 05:31 G 27735663.61 27735663.73 27735663.84 0.1839 0.0738

Uranus 71226-04-22 05:31 G 27735933.66 27735933.73 27735933.80 0.0143 0.0126

Mars 71226-06-10 17:31 G 27735983.09 27735983.23 27735983.36 0.1677 0.0610

Uranus 71226-07-19 11:03 G 27736021.85 27736021.96 27736022.08 0.0143 0.0100

Uranus 71226-10-15 16:34 G 27736110.06 27736110.19 27736110.33 0.0143 0.0075

Uranus 71227-01-11 22:19 G 27736198.28 27736198.43 27736198.58 0.0143 0.0049

Uranus 71227-04-10 04:05 G 27736286.51 27736286.67 27736286.83 0.0143 0.0023

Uranus 71227-07-07 09:51 G 27736374.75 27736374.91 27736375.07 0.0143 0.0003

Uranus 71227-10-03 15:36 G 27736462.99 27736463.15 27736463.31 0.0143 0.0029

Uranus 71227-12-30 21:22 G 27736551.24 27736551.39 27736551.54 0.0143 0.0056

Uranus 71228-03-28 03:07 G 27736639.50 27736639.63 27736639.77 0.0143 0.0083

Uranus 71228-06-24 08:53 G 27736727.78 27736727.87 27736727.99 0.0143 0.0110

Uranus 71228-09-20 14:53 G 27736816.09 27736816.12 27736816.18 0.0143 0.0137

Saturn 71229-02-06 01:12 G 27736954.43 27736954.55 27736954.67 0.0278 0.0176

Saturn 71229-05-05 16:48 G 27737043.04 27737043.20 27737043.35 0.0277 0.0032

Saturn 71229-08-02 07:55 G 27737131.69 27737131.83 27737131.97 0.0277 0.0111

Saturn 71229-10-29 22:34 G 27737220.38 27737220.44 27737220.51 0.0277 0.0248

Moon 71230-03-02 09:36 G 27737343.83 27737343.90 27737343.96 0.2633 0.2330

Earth 71230-03-02 10:34 G 27737343.90 27737343.94 27737343.99 0.2636 0.2473 *

Jupiter 71230-04-24 12:58 G 27737396.89 27737397.04 27737397.19 0.0544 0.0034

Earth 71234-08-26 00:29 G 27738981.40 27738981.52 27738981.64 0.2699 0.0019

Moon 71234-08-26 01:27 G 27738981.44 27738981.56 27738981.68 0.2697 0.0198 *

Mars 71234-12-16 12:15 G 27739093.96 27739094.01 27739094.06 0.1833 0.1674

Mars 71235-10-31 22:34 G 27739413.29 27739413.44 27739413.58 0.1682 0.0267

Jupiter 71236-03-07 18:43 G 27739541.12 27739541.28 27739541.43 0.0484 0.0104

Venus 71236-10-24 02:53 G 27739771.59 27739771.62 27739771.66 0.3698 0.3454

Earth 71237-02-22 17:46 G 27739893.15 27739893.24 27739893.34 0.2633 0.1815

Moon 71237-02-22 18:29 G 27739893.17 27739893.27 27739893.37 0.2627 0.1666 *

Jupiter 71242-02-10 14:24 G 27741706.97 27741707.10 27741707.23 0.0544 0.0247

Venus 71242-05-09 22:19 G 27741795.32 27741795.43 27741795.55 0.3697 0.0215

Saturn 71244-02-14 15:36 G 27742441.04 27742441.15 27742441.27 0.0281 0.0182

Saturn 71244-05-13 06:58 G 27742529.64 27742529.79 27742529.94 0.0281 0.0037

Saturn 71244-08-09 22:34 G 27742618.30 27742618.44 27742618.59 0.0281 0.0112

Saturn 71244-11-06 14:39 G 27742707.07 27742707.11 27742707.17 0.0282 0.0265

Mars 71245-03-23 03:07 G 27742843.53 27742843.63 27742843.74 0.1687 0.1167

Mars 71246-04-13 16:48 G 27743230.12 27743230.20 27743230.29 0.1851 0.1374

Earth 71247-08-28 21:22 G 27743732.28 27743732.39 27743732.49 0.2698 0.1369

Moon 71247-08-28 21:51 G 27743732.31 27743732.41 27743732.52 0.2693 0.1366 *

Jupiter 71247-12-25 20:53 G 27743851.22 27743851.37 27743851.53 0.0484 0.0057

Moon 71250-02-25 17:03 G 27744644.07 27744644.21 27744644.34 0.2627 0.0408

Earth 71250-02-25 16:48 G 27744644.07 27744644.20 27744644.34 0.2634 0.0353 *

Pluto 71250-05-23 03:36 G 27744730.56 27744730.65 27744730.76 0.0080 0.0063

Pluto 71250-08-19 05:46 G 27744818.60 27744818.74 27744818.88 0.0080 0.0041

Pluto 71250-11-15 07:27 G 27744906.65 27744906.81 27744906.97 0.0080 0.0020

Pluto 71251-02-11 09:07 G 27744994.72 27744994.88 27744995.05 0.0079 0.0002

Pluto 71251-05-10 10:48 G 27745082.80 27745082.95 27745083.11 0.0079 0.0022

Pluto 71251-08-06 12:29 G 27745170.90 27745171.02 27745171.17 0.0079 0.0043

Pluto 71251-11-02 14:10 G 27745259.01 27745259.09 27745259.20 0.0079 0.0064

Jupiter 71253-11-29 14:39 G 27746017.04 27746017.11 27746017.18 0.0543 0.0479

Jupiter 71254-02-27 08:53 G 27746106.78 27746106.87 27746106.97 0.0544 0.0402

Earth 71254-08-21 11:17 G 27746281.93 27746281.97 27746282.01 0.2700 0.2538

Moon 71254-08-21 11:46 G 27746281.94 27746281.99 27746282.03 0.2707 0.2500 *

Venus 71254-12-19 15:36 G 27746402.04 27746402.15 27746402.25 0.3674 0.1964

Mars 71255-09-03 22:48 G 27746660.33 27746660.45 27746660.58 0.1845 0.0346

Mars 71256-07-19 12:29 G 27746979.97 27746980.02 27746980.06 0.1672 0.1569

Saturn 71258-06-26 02:24 G 27747686.51 27747686.60 27747686.70 0.0279 0.0216

Saturn 71258-09-22 18:00 G 27747775.11 27747775.25 27747775.41 0.0278 0.0069

Saturn 71258-12-20 09:22 G 27747863.74 27747863.89 27747864.04 0.0278 0.0075

Saturn 71259-03-19 00:15 G 27747952.42 27747952.51 27747952.61 0.0278 0.0215

Jupiter 71259-10-13 23:03 G 27748161.32 27748161.46 27748161.60 0.0485 0.0222

Jupiter 71260-01-11 12:58 G 27748250.98 27748251.04 27748251.10 0.0484 0.0442

Venus 71260-07-04 12:43 G 27748425.93 27748426.03 27748426.13 0.3675 0.2186

Earth 71260-08-30 17:46 G 27748483.23 27748483.24 27748483.26 0.2697 0.2670

Moon 71263-02-28 15:36 G 27749395.03 27749395.15 27749395.27 0.2630 0.1160

Earth 71263-02-28 16:34 G 27749395.07 27749395.19 27749395.31 0.2635 0.1193 *

Mars 71265-01-24 05:31 G 27750090.61 27750090.73 27750090.85 0.1839 0.0621

Mars 71265-12-09 17:46 G 27750410.11 27750410.24 27750410.37 0.1677 0.0731

Jupiter 71265-12-16 09:51 G 27750416.78 27750416.91 27750417.05 0.0544 0.0181

Earth 71267-08-24 08:39 G 27751032.75 27751032.86 27751032.97 0.2699 0.1109

Moon 71267-08-24 09:22 G 27751032.78 27751032.89 27751033.01 0.2703 0.0995 *

Uranus 71269-04-29 21:51 G 27751647.39 27751647.41 27751647.45 0.0135 0.0132

Uranus 71269-07-27 02:10 G 27751735.52 27751735.59 27751735.69 0.0135 0.0111

Uranus 71269-10-23 06:43 G 27751823.67 27751823.78 27751823.90 0.0135 0.0090

Uranus 71270-01-19 11:03 G 27751911.83 27751911.96 27751912.09 0.0135 0.0069

Uranus 71270-04-17 15:22 G 27752000.00 27752000.14 27752000.28 0.0135 0.0049

Uranus 71270-07-14 19:41 G 27752088.17 27752088.32 27752088.47 0.0135 0.0028

Uranus 71270-10-10 23:46 G 27752176.34 27752176.49 27752176.65 0.0135 0.0009

Uranus 71271-01-07 04:05 G 27752264.52 27752264.67 27752264.82 0.0135 0.0013

Uranus 71271-04-05 08:10 G 27752352.70 27752352.84 27752352.99 0.0135 0.0033

Uranus 71271-07-02 12:15 G 27752440.88 27752441.01 27752441.15 0.0135 0.0053

Jupiter 71271-08-02 01:12 G 27752471.46 27752471.55 27752471.65 0.0485 0.0381

Uranus 71271-09-28 16:19 G 27752529.06 27752529.18 27752529.31 0.0136 0.0073

Jupiter 71271-10-30 14:53 G 27752560.99 27752561.12 27752561.25 0.0484 0.0274

Uranus 71271-12-25 20:39 G 27752617.25 27752617.36 27752617.46 0.0136 0.0093

Uranus 71272-03-23 00:29 G 27752705.45 27752705.52 27752705.61 0.0136 0.0113

Uranus 71272-06-19 04:19 G 27752793.67 27752793.68 27752793.72 0.0136 0.0133

Saturn 71273-07-03 18:43 G 27753173.18 27753173.28 27753173.38 0.0281 0.0206

Saturn 71273-09-30 10:05 G 27753261.77 27753261.92 27753262.07 0.0281 0.0061

Saturn 71273-12-28 01:41 G 27753350.42 27753350.57 27753350.72 0.0281 0.0087

Saturn 71274-03-26 17:46 G 27753439.16 27753439.24 27753439.32 0.0281 0.0239

Mars 71274-06-16 12:15 G 27753520.95 27753521.01 27753521.08 0.1833 0.1559

Mars 71275-05-01 22:48 G 27753840.31 27753840.45 27753840.60 0.1682 0.0145

Neptune 71277-01-13 05:03 G 27754462.66 27754462.71 27754462.78 0.0090 0.0082

Neptune 71277-04-11 07:12 G 27754550.72 27754550.80 27754550.89 0.0090 0.0073

Neptune 71277-07-08 09:07 G 27754638.79 27754638.88 27754639.00 0.0090 0.0064

Jupiter 71277-10-04 10:34 G 27754726.80 27754726.94 27754727.09 0.0544 0.0045

Neptune 71277-10-04 11:03 G 27754726.86 27754726.96 27754727.10 0.0090 0.0056 *

Neptune 71277-12-31 13:12 G 27754814.93 27754815.05 27754815.19 0.0090 0.0047

Neptune 71278-03-29 15:22 G 27754903.01 27754903.14 27754903.28 0.0090 0.0038

Neptune 71278-06-25 17:17 G 27754991.08 27754991.22 27754991.37 0.0090 0.0030

Neptune 71278-09-21 19:27 G 27755079.16 27755079.31 27755079.46 0.0090 0.0021

Neptune 71278-12-18 21:22 G 27755167.24 27755167.39 27755167.54 0.0090 0.0012

Neptune 71279-03-16 23:31 G 27755255.33 27755255.48 27755255.63 0.0090 0.0004

Neptune 71279-06-13 01:27 G 27755343.41 27755343.56 27755343.71 0.0090 0.0005

Neptune 71279-09-09 03:22 G 27755431.49 27755431.64 27755431.79 0.0090 0.0014

Neptune 71279-12-06 05:17 G 27755519.58 27755519.72 27755519.87 0.0090 0.0022

Neptune 71280-03-03 07:12 G 27755607.66 27755607.80 27755607.94 0.0090 0.0031

Neptune 71280-05-30 08:53 G 27755695.75 27755695.87 27755696.02 0.0090 0.0040

Earth 71280-08-26 05:46 G 27755783.62 27755783.74 27755783.86 0.2698 0.0281

Moon 71280-08-26 06:43 G 27755783.66 27755783.78 27755783.90 0.2697 0.0310 *

Neptune 71280-08-26 11:03 G 27755783.84 27755783.96 27755784.09 0.0090 0.0048 *

Neptune 71280-11-22 12:58 G 27755871.93 27755872.04 27755872.16 0.0090 0.0056

Neptune 71281-02-18 14:39 G 27755960.02 27755960.11 27755960.22 0.0089 0.0065

Neptune 71281-05-17 16:34 G 27756048.12 27756048.19 27756048.29 0.0089 0.0073

Neptune 71281-08-13 18:29 G 27756136.22 27756136.27 27756136.34 0.0089 0.0081

Neptune 71281-11-09 20:24 G 27756224.34 27756224.35 27756224.37 0.0089 0.0089

Earth 71283-02-23 23:17 G 27756695.37 27756695.47 27756695.58 0.2633 0.1539

Moon 71283-02-24 00:00 G 27756695.39 27756695.50 27756695.61 0.2627 0.1548 *

Jupiter 71283-08-18 17:03 G 27756871.06 27756871.21 27756871.36 0.0484 0.0112

Mars 71284-09-21 03:36 G 27757270.53 27757270.65 27757270.77 0.1687 0.1038

Mars 71285-10-12 16:48 G 27757657.13 27757657.20 27757657.28 0.1851 0.1485

Saturn 71287-11-13 03:36 G 27758418.59 27758418.65 27758418.71 0.0278 0.0256

Saturn 71288-02-09 19:27 G 27758507.16 27758507.31 27758507.45 0.0278 0.0109

Saturn 71288-05-08 10:48 G 27758595.80 27758595.95 27758596.10 0.0277 0.0035

Saturn 71288-08-05 01:41 G 27758684.46 27758684.57 27758684.69 0.0277 0.0175

Jupiter 71289-07-23 12:00 G 27759036.87 27759037.00 27759037.13 0.0544 0.0256

Venus 71293-05-31 01:27 G 27760444.46 27760444.56 27760444.65 0.3698 0.2099

Earth 71293-08-29 02:39 G 27760534.51 27760534.61 27760534.70 0.2698 0.1623

Moon 71293-08-29 02:53 G 27760534.53 27760534.62 27760534.72 0.2692 0.1735 *

Mars 71295-03-04 23:03 G 27761087.34 27761087.46 27761087.59 0.1845 0.0468

Jupiter 71295-06-06 18:58 G 27761181.14 27761181.29 27761181.45 0.0484 0.0056

Moon 71296-02-26 22:19 G 27761446.29 27761446.43 27761446.57 0.2628 0.0008

Earth 71296-02-26 22:34 G 27761446.30 27761446.44 27761446.57 0.2634 0.0059 *

Venus 71298-12-14 20:53 G 27762468.26 27762468.37 27762468.47 0.3696 0.1518

Earth 71300-08-22 16:34 G 27763084.13 27763084.19 27763084.26 0.2700 0.2268

Moon 71300-08-22 17:03 G 27763084.14 27763084.21 27763084.28 0.2707 0.2261 *

Jupiter 71301-05-12 13:12 G 27763346.98 27763347.05 27763347.12 0.0543 0.0471

Jupiter 71301-08-10 07:41 G 27763436.73 27763436.82 27763436.91 0.0544 0.0413

Saturn 71302-11-21 18:29 G 27763905.22 27763905.27 27763905.33 0.0281 0.0258

Saturn 71303-02-18 09:51 G 27763993.77 27763993.91 27763994.05 0.0281 0.0115

Saturn 71303-05-18 01:12 G 27764082.40 27764082.55 27764082.71 0.0281 0.0032

Saturn 71303-08-14 17:03 G 27764171.09 27764171.21 27764171.33 0.0281 0.0182

Mars 71304-07-26 05:31 G 27764517.61 27764517.73 27764517.85 0.1839 0.0514

Mars 71305-06-10 18:15 G 27764837.13 27764837.26 27764837.38 0.1677 0.0853

Jupiter 71307-03-26 21:22 G 27765491.26 27765491.39 27765491.53 0.0485 0.0214

Jupiter 71307-06-24 11:31 G 27765580.92 27765580.98 27765581.03 0.0484 0.0448

Moon 71309-03-01 21:07 G 27766197.27 27766197.38 27766197.50 0.2630 0.1319

Earth 71309-03-01 22:05 G 27766197.31 27766197.42 27766197.53 0.2635 0.1483 *

Uranus 71310-02-14 07:12 G 27766546.80 27766546.80 27766546.82 0.0143 0.0143

Uranus 71310-05-13 12:43 G 27766634.95 27766635.03 27766635.13 0.0143 0.0118

Uranus 71310-08-09 18:15 G 27766723.15 27766723.26 27766723.39 0.0143 0.0092

Uranus 71310-11-06 00:00 G 27766811.36 27766811.50 27766811.65 0.0143 0.0066

Uranus 71311-02-02 05:46 G 27766899.58 27766899.74 27766899.90 0.0143 0.0040

Uranus 71311-05-01 11:31 G 27766987.82 27766987.98 27766988.14 0.0143 0.0014

Venus 71311-07-27 14:24 G 27767074.97 27767075.10 27767075.22 0.3674 0.0483

Uranus 71311-07-28 17:17 G 27767076.06 27767076.22 27767076.38 0.0143 0.0012

Uranus 71311-10-24 23:03 G 27767164.30 27767164.46 27767164.62 0.0143 0.0038

Uranus 71312-01-21 04:48 G 27767252.56 27767252.70 27767252.85 0.0143 0.0065

Uranus 71312-04-18 10:48 G 27767340.82 27767340.95 27767341.07 0.0143 0.0091

Uranus 71312-07-15 16:34 G 27767429.10 27767429.19 27767429.29 0.0143 0.0118

Jupiter 71313-05-29 08:24 G 27767746.72 27767746.85 27767746.99 0.0544 0.0191

Earth 71313-08-25 13:55 G 27767834.96 27767835.08 27767835.20 0.2699 0.0843

Moon 71313-08-25 14:53 G 27767835.00 27767835.12 27767835.24 0.2701 0.0748 *

Mars 71313-12-16 12:15 G 27767947.94 27767948.01 27767948.08 0.1833 0.1458

Mars 71314-10-31 23:31 G 27768267.33 27768267.48 27768267.62 0.1682 0.0045

Moon 71316-02-23 06:58 G 27768746.78 27768746.79 27768746.80 0.2629 0.2611

Saturn 71317-06-29 20:24 G 27769239.22 27769239.35 27769239.48 0.0279 0.0150

Saturn 71317-09-26 12:00 G 27769327.84 27769328.00 27769328.15 0.0278 0.0007

Saturn 71317-12-24 03:07 G 27769416.50 27769416.63 27769416.76 0.0278 0.0138

Saturn 71318-03-22 17:46 G 27769505.23 27769505.24 27769505.26 0.0278 0.0276

Jupiter 71319-01-12 23:31 G 27769801.39 27769801.48 27769801.57 0.0485 0.0378

Jupiter 71319-04-12 12:58 G 27769890.92 27769891.04 27769891.17 0.0485 0.0279

Mars 71324-03-23 04:05 G 27771697.54 27771697.67 27771697.79 0.1687 0.0910

Jupiter 71325-03-17 09:07 G 27772056.74 27772056.88 27772057.03 0.0543 0.0037

Mars 71325-04-13 17:03 G 27772084.15 27772084.21 27772084.27 0.1851 0.1598

Earth 71326-08-28 11:03 G 27772585.84 27772585.96 27772586.08 0.2698 0.0538

Moon 71326-08-28 11:46 G 27772585.88 27772585.99 27772586.11 0.2697 0.0696 *

Earth 71329-02-25 04:48 G 27773497.59 27773497.70 27773497.82 0.2633 0.1265

Moon 71329-02-25 05:31 G 27773497.60 27773497.73 27773497.85 0.2627 0.1147 *

Jupiter 71331-01-29 15:07 G 27774200.98 27774201.13 27774201.28 0.0485 0.0112

Saturn 71332-04-09 21:51 G 27774637.41 27774637.41 27774637.43 0.0280 0.0279

Saturn 71332-07-07 12:58 G 27774725.91 27774726.04 27774726.18 0.0281 0.0138

Saturn 71332-10-04 04:34 G 27774814.53 27774814.69 27774814.84 0.0281 0.0009

Saturn 71332-12-31 20:10 G 27774903.22 27774903.34 27774903.47 0.0281 0.0159

Mars 71334-09-03 23:17 G 27775514.34 27775514.47 27775514.59 0.1845 0.0586

Jupiter 71337-01-03 09:36 G 27776366.77 27776366.90 27776367.03 0.0543 0.0266

Earth 71339-08-31 07:41 G 27777336.74 27777336.82 27777336.91 0.2697 0.1872

Moon 71339-08-31 08:10 G 27777336.75 27777336.84 27777336.93 0.2691 0.1828 *

Moon 71342-02-28 03:36 G 27778248.52 27778248.65 27778248.79 0.2628 0.0115

Earth 71342-02-28 04:05 G 27778248.54 27778248.67 27778248.81 0.2634 0.0229 *

Jupiter 71342-11-17 17:31 G 27778511.07 27778511.23 27778511.38 0.0485 0.0050

Mars 71344-01-25 05:31 G 27778944.61 27778944.73 27778944.86 0.1839 0.0404

Mars 71344-12-09 18:29 G 27779264.16 27779264.27 27779264.39 0.1677 0.0978

Earth 71346-08-23 21:51 G 27779886.33 27779886.41 27779886.50 0.2700 0.2000

Moon 71346-08-23 22:19 G 27779886.35 27779886.43 27779886.52 0.2706 0.1909 *

Saturn 71346-11-16 22:05 G 27779971.31 27779971.42 27779971.54 0.0278 0.0186

Saturn 71347-02-13 13:41 G 27780059.92 27780060.07 27780060.22 0.0278 0.0041

Saturn 71347-05-13 05:03 G 27780148.56 27780148.71 27780148.85 0.0278 0.0102

Saturn 71347-08-09 19:41 G 27780237.25 27780237.32 27780237.40 0.0277 0.0241

Jupiter 71348-10-22 10:34 G 27780676.88 27780676.94 27780677.01 0.0543 0.0484

Jupiter 71349-01-20 05:17 G 27780766.62 27780766.72 27780766.81 0.0545 0.0402

Venus 71350-01-05 23:46 G 27781117.38 27781117.49 27781117.61 0.3697 0.0758

Uranus 71353-05-21 05:46 G 27782348.69 27782348.74 27782348.81 0.0135 0.0122

Mars 71353-06-16 12:29 G 27782374.93 27782375.02 27782375.10 0.1833 0.1341

Uranus 71353-08-17 10:05 G 27782436.83 27782436.92 27782437.03 0.0135 0.0101

Uranus 71353-11-13 14:39 G 27782524.99 27782525.11 27782525.24 0.0135 0.0080

Uranus 71354-02-09 18:58 G 27782613.16 27782613.29 27782613.43 0.0135 0.0059

Mars 71354-05-01 23:31 G 27782694.34 27782694.48 27782694.63 0.1682 0.0126

Uranus 71354-05-08 23:17 G 27782701.33 27782701.47 27782701.62 0.0135 0.0039

Uranus 71354-08-05 03:36 G 27782789.50 27782789.65 27782789.80 0.0135 0.0018

Jupiter 71354-09-05 19:27 G 27782821.18 27782821.31 27782821.45 0.0485 0.0213

Uranus 71354-11-01 07:41 G 27782877.67 27782877.82 27782877.97 0.0135 0.0004

Jupiter 71354-12-04 09:22 G 27782910.84 27782910.89 27782910.95 0.0484 0.0449

Uranus 71355-01-28 12:00 G 27782965.85 27782966.00 27782966.15 0.0135 0.0022

Moon 71355-03-03 02:53 G 27782999.52 27782999.62 27782999.72 0.2631 0.1763

Earth 71355-03-03 03:51 G 27782999.56 27782999.66 27782999.76 0.2635 0.1782 *

Uranus 71355-04-26 16:05 G 27783054.03 27783054.17 27783054.31 0.0135 0.0043

Venus 71355-07-22 19:12 G 27783141.22 27783141.30 27783141.37 0.3696 0.2809

Uranus 71355-07-23 20:10 G 27783142.21 27783142.34 27783142.48 0.0135 0.0063

Uranus 71355-10-20 00:15 G 27783230.40 27783230.51 27783230.63 0.0136 0.0083

Uranus 71356-01-16 04:19 G 27783318.59 27783318.68 27783318.78 0.0136 0.0103

Uranus 71356-04-13 08:10 G 27783406.79 27783406.84 27783406.92 0.0136 0.0123

Earth 71359-08-26 19:12 G 27784637.18 27784637.30 27784637.42 0.2699 0.0580

Moon 71359-08-26 20:10 G 27784637.22 27784637.34 27784637.46 0.2700 0.0495 *

Neptune 71359-12-24 04:19 G 27784756.65 27784756.68 27784756.73 0.0088 0.0085

Neptune 71360-03-21 06:58 G 27784844.71 27784844.79 27784844.86 0.0088 0.0076

Neptune 71360-06-17 08:53 G 27784932.78 27784932.87 27784932.98 0.0088 0.0068

Neptune 71360-09-13 11:03 G 27785020.85 27785020.96 27785021.09 0.0088 0.0060

Jupiter 71360-11-08 06:43 G 27785076.65 27785076.78 27785076.92 0.0544 0.0197

Neptune 71360-12-10 13:27 G 27785108.93 27785109.06 27785109.20 0.0088 0.0051

Neptune 71361-03-08 15:36 G 27785197.02 27785197.15 27785197.30 0.0088 0.0043

Neptune 71361-06-04 18:00 G 27785285.10 27785285.25 27785285.40 0.0088 0.0034

Neptune 71361-08-31 20:10 G 27785373.19 27785373.34 27785373.50 0.0088 0.0025

Saturn 71361-11-24 12:58 G 27785457.93 27785458.04 27785458.15 0.0281 0.0188

Neptune 71361-11-27 22:34 G 27785461.28 27785461.44 27785461.60 0.0088 0.0017

Saturn 71362-02-21 04:19 G 27785546.53 27785546.68 27785546.83 0.0281 0.0044

Earth 71362-02-23 11:31 G 27785548.93 27785548.98 27785549.03 0.2632 0.2426

Moon 71362-02-23 12:29 G 27785548.96 27785549.02 27785549.07 0.2628 0.2351 *

Neptune 71362-02-24 00:43 G 27785549.37 27785549.53 27785549.70 0.0088 0.0008

Saturn 71362-05-20 19:55 G 27785635.19 27785635.33 27785635.47 0.0281 0.0104

Neptune 71362-05-23 03:07 G 27785637.47 27785637.63 27785637.80 0.0088 0.0001

Saturn 71362-08-17 12:00 G 27785723.93 27785724.00 27785724.06 0.0281 0.0256

Venus 71362-08-17 16:05 G 27785724.10 27785724.17 27785724.24 0.3673 0.3039

Neptune 71362-08-19 05:31 G 27785725.56 27785725.73 27785725.89 0.0088 0.0010

Neptune 71362-11-15 07:41 G 27785813.66 27785813.82 27785813.99 0.0088 0.0018

Neptune 71363-02-11 10:05 G 27785901.76 27785901.92 27785902.08 0.0088 0.0027

Neptune 71363-05-10 12:29 G 27785989.87 27785990.02 27785990.17 0.0088 0.0036

Neptune 71363-08-06 14:39 G 27786077.98 27786078.11 27786078.26 0.0088 0.0045

Mars 71363-09-22 04:19 G 27786124.55 27786124.68 27786124.82 0.1687 0.0779

Neptune 71363-11-02 17:03 G 27786166.09 27786166.21 27786166.35 0.0088 0.0054

Neptune 71364-01-29 19:27 G 27786254.20 27786254.31 27786254.43 0.0088 0.0063

Neptune 71364-04-26 21:51 G 27786342.32 27786342.41 27786342.51 0.0088 0.0072

Neptune 71364-07-24 00:15 G 27786430.46 27786430.51 27786430.58 0.0088 0.0081

Mars 71364-10-12 17:03 G 27786511.17 27786511.21 27786511.26 0.1851 0.1710

Jupiter 71366-06-24 21:51 G 27787131.32 27787131.41 27787131.51 0.0485 0.0371

Jupiter 71366-09-22 11:31 G 27787220.85 27787220.98 27787221.11 0.0484 0.0284

Venus 71368-03-02 13:12 G 27787747.93 27787748.05 27787748.17 0.3674 0.1020

Jupiter 71372-08-27 07:41 G 27789386.68 27789386.82 27789386.97 0.0543 0.0028

Earth 71372-08-28 16:19 G 27789388.06 27789388.18 27789388.29 0.2698 0.0798

Moon 71372-08-28 17:03 G 27789388.09 27789388.21 27789388.33 0.2695 0.0842 *

Mars 71374-03-04 23:03 G 27789941.34 27789941.46 27789941.58 0.1845 0.0687

Earth 71375-02-26 10:19 G 27790299.81 27790299.93 27790300.06 0.2633 0.0985

Moon 71375-02-26 10:48 G 27790299.82 27790299.95 27790300.08 0.2627 0.0980 *

Saturn 71376-04-04 22:48 G 27790703.37 27790703.45 27790703.54 0.0279 0.0230

Saturn 71376-07-02 14:39 G 27790791.96 27790792.11 27790792.26 0.0279 0.0082

Saturn 71376-09-29 06:00 G 27790880.60 27790880.75 27790880.90 0.0278 0.0062

Saturn 71376-12-26 21:07 G 27790969.28 27790969.38 27790969.48 0.0278 0.0202

Jupiter 71378-07-11 13:12 G 27791530.90 27791531.05 27791531.20 0.0485 0.0114

Mars 71383-07-26 05:46 G 27793371.61 27793371.74 27793371.86 0.1839 0.0284

Mars 71384-06-09 18:58 G 27793691.18 27793691.29 27793691.40 0.1677 0.1096

Jupiter 71384-06-15 08:10 G 27793696.71 27793696.84 27793696.97 0.0543 0.0255

Earth 71385-08-31 12:58 G 27794138.96 27794139.04 27794139.11 0.2697 0.2119

Moon 71385-08-31 13:12 G 27794138.98 27794139.05 27794139.12 0.2690 0.2204 *

Moon 71388-02-29 09:07 G 27795050.75 27795050.88 27795051.02 0.2628 0.0534

Earth 71388-02-29 09:51 G 27795050.77 27795050.91 27795051.04 0.2634 0.0525 *

Jupiter 71390-04-29 15:22 G 27795840.98 27795841.14 27795841.29 0.0485 0.0050

Saturn 71391-04-13 16:19 G 27796190.09 27796190.18 27796190.28 0.0280 0.0210

Saturn 71391-07-11 07:41 G 27796278.67 27796278.82 27796278.97 0.0281 0.0066

Saturn 71391-10-07 23:17 G 27796367.32 27796367.47 27796367.62 0.0281 0.0082

Saturn 71392-01-04 15:07 G 27796456.05 27796456.13 27796456.22 0.0281 0.0233

Earth 71392-08-24 03:22 G 27796688.54 27796688.64 27796688.73 0.2700 0.1727

Moon 71392-08-24 03:51 G 27796688.57 27796688.66 27796688.76 0.2705 0.1728 *

Mars 71392-12-15 12:29 G 27796801.93 27796802.02 27796802.11 0.1833 0.1230

Mars 71393-10-31 00:00 G 27797121.36 27797121.50 27797121.65 0.1682 0.0245

Uranus 71394-03-06 15:07 G 27797248.08 27797248.13 27797248.19 0.0143 0.0132

Uranus 71394-06-02 20:39 G 27797336.26 27797336.36 27797336.47 0.0143 0.0107

Uranus 71394-08-30 02:24 G 27797424.47 27797424.60 27797424.73 0.0143 0.0082

Uranus 71394-11-26 07:55 G 27797512.68 27797512.83 27797512.98 0.0143 0.0056

Uranus 71395-02-22 13:41 G 27797600.91 27797601.07 27797601.23 0.0143 0.0030

Uranus 71395-05-21 19:27 G 27797689.14 27797689.31 27797689.47 0.0143 0.0006

Uranus 71395-08-18 00:58 G 27797777.38 27797777.54 27797777.71 0.0143 0.0023

Uranus 71395-11-14 06:43 G 27797865.63 27797865.78 27797865.94 0.0143 0.0049

Uranus 71396-02-10 12:43 G 27797953.89 27797954.03 27797954.17 0.0143 0.0075

Jupiter 71396-04-03 08:10 G 27798006.78 27798006.84 27798006.90 0.0543 0.0494

Uranus 71396-05-08 18:29 G 27798042.16 27798042.27 27798042.39 0.0143 0.0102

Jupiter 71396-07-02 02:53 G 27798096.52 27798096.62 27798096.72 0.0544 0.0391

Uranus 71396-08-05 00:15 G 27798130.45 27798130.51 27798130.59 0.0143 0.0129

Venus 71401-01-28 02:39 G 27799766.55 27799766.61 27799766.68 0.3698 0.3086

Moon 71401-03-04 08:24 G 27799801.75 27799801.85 27799801.94 0.2633 0.1885

Earth 71401-03-04 09:22 G 27799801.81 27799801.89 27799801.97 0.2635 0.2077 *

Jupiter 71402-02-16 17:46 G 27800151.10 27800151.24 27800151.38 0.0485 0.0208

Jupiter 71402-05-17 07:41 G 27800240.77 27800240.82 27800240.87 0.0484 0.0454

Mars 71403-03-24 04:48 G 27800551.56 27800551.70 27800551.84 0.1687 0.0652

Mars 71404-04-13 17:17 G 27800938.20 27800938.22 27800938.23 0.1851 0.1830

Saturn 71405-08-24 00:58 G 27801435.49 27801435.54 27801435.59 0.0278 0.0263

Earth 71405-08-28 00:29 G 27801439.40 27801439.52 27801439.64 0.2699 0.0318

Moon 71405-08-28 01:27 G 27801439.44 27801439.56 27801439.68 0.2700 0.0186 *

Saturn 71405-11-20 16:48 G 27801524.06 27801524.20 27801524.34 0.0278 0.0115

Saturn 71406-02-17 08:10 G 27801612.69 27801612.84 27801613.00 0.0278 0.0030

Saturn 71406-05-16 23:17 G 27801701.35 27801701.47 27801701.59 0.0278 0.0170

Venus 71406-08-13 22:19 G 27801790.31 27801790.43 27801790.54 0.3697 0.0592

Pluto 71407-07-31 08:53 G 27802141.87 27802141.87 27802141.88 0.0064 0.0064

Pluto 71407-10-27 09:22 G 27802229.82 27802229.89 27802229.99 0.0064 0.0054

Pluto 71408-01-23 10:19 G 27802317.82 27802317.93 27802318.05 0.0064 0.0043

Earth 71408-02-25 17:03 G 27802351.14 27802351.21 27802351.28 0.2632 0.2153

Moon 71408-02-25 18:00 G 27802351.16 27802351.25 27802351.33 0.2628 0.2027 *

Pluto 71408-04-20 10:48 G 27802405.83 27802405.95 27802406.10 0.0065 0.0033

Jupiter 71408-04-21 04:19 G 27802406.54 27802406.68 27802406.81 0.0544 0.0181

Pluto 71408-07-17 11:46 G 27802493.85 27802493.99 27802494.15 0.0065 0.0022

Pluto 71408-10-13 12:43 G 27802581.88 27802582.03 27802582.18 0.0065 0.0011

Pluto 71409-01-09 13:27 G 27802669.91 27802670.06 27802670.22 0.0065 0.0002

Pluto 71409-04-07 14:24 G 27802757.94 27802758.10 27802758.25 0.0065 0.0011

Pluto 71409-07-04 14:53 G 27802845.98 27802846.12 27802846.27 0.0065 0.0022

Pluto 71409-09-30 15:36 G 27802934.03 27802934.15 27802934.29 0.0065 0.0033

Pluto 71409-12-27 16:19 G 27803022.08 27803022.18 27803022.30 0.0065 0.0044

Pluto 71410-03-25 17:03 G 27803110.15 27803110.21 27803110.31 0.0065 0.0055

Mars 71412-08-13 09:07 G 27803981.83 27803981.88 27803981.93 0.1693 0.1580

Mars 71413-09-03 23:17 G 27804368.35 27804368.47 27804368.58 0.1845 0.0804

Jupiter 71413-12-05 19:55 G 27804461.24 27804461.33 27804461.43 0.0485 0.0370

Jupiter 71414-03-05 09:22 G 27804550.77 27804550.89 27804551.02 0.0484 0.0284

Earth 71418-08-30 21:22 G 27806190.28 27806190.39 27806190.51 0.2698 0.1050

Moon 71418-08-30 22:05 G 27806190.31 27806190.42 27806190.53 0.2693 0.1116 *

Venus 71419-03-25 14:53 G 27806397.01 27806397.12 27806397.23 0.3673 0.1582

Jupiter 71420-02-08 05:46 G 27806716.59 27806716.74 27806716.89 0.0544 0.0028

Saturn 71420-08-31 16:34 G 27806922.14 27806922.19 27806922.25 0.0281 0.0258

Saturn 71420-11-28 07:41 G 27807010.69 27807010.82 27807010.96 0.0281 0.0116

Saturn 71421-02-24 23:17 G 27807099.31 27807099.47 27807099.62 0.0281 0.0031

Moon 71421-02-27 16:05 G 27807102.04 27807102.17 27807102.30 0.2627 0.0686

Earth 71421-02-27 16:05 G 27807102.04 27807102.17 27807102.29 0.2633 0.0710 *

Saturn 71421-05-24 14:53 G 27807188.01 27807188.12 27807188.24 0.0281 0.0180

Mars 71423-01-25 05:46 G 27807798.61 27807798.74 27807798.86 0.1839 0.0182

Mars 71423-12-10 19:12 G 27808118.21 27808118.30 27808118.40 0.1677 0.1218

Venus 71424-10-08 12:15 G 27808420.92 27808421.01 27808421.10 0.3675 0.2546

Jupiter 71425-12-22 11:31 G 27808860.83 27808860.98 27808861.13 0.0484 0.0120

Moon 71431-09-02 18:15 G 27810941.20 27810941.26 27810941.32 0.2690 0.2331

Earth 71431-09-02 18:00 G 27810941.20 27810941.25 27810941.31 0.2697 0.2369 *

Jupiter 71431-11-27 06:43 G 27811026.65 27811026.78 27811026.91 0.0543 0.0249

Mars 71432-06-16 12:29 G 27811228.92 27811229.02 27811229.11 0.1833 0.1128

Mars 71433-05-02 00:29 G 27811548.38 27811548.52 27811548.66 0.1682 0.0371

Moon 71434-03-02 14:53 G 27811852.98 27811853.12 27811853.25 0.2628 0.0699

Earth 71434-03-02 15:22 G 27811853.01 27811853.14 27811853.27 0.2634 0.0811 *

Saturn 71435-04-09 17:31 G 27812256.10 27812256.23 27812256.35 0.0279 0.0160

Saturn 71435-07-07 09:07 G 27812344.72 27812344.88 27812345.03 0.0278 0.0015

Saturn 71435-10-04 00:15 G 27812433.38 27812433.51 27812433.65 0.0278 0.0129

Saturn 71435-12-31 15:07 G 27812522.09 27812522.13 27812522.17 0.0278 0.0267

Uranus 71437-03-15 09:22 G 27812961.88 27812961.89 27812961.92 0.0135 0.0133

Uranus 71437-06-11 13:41 G 27813050.00 27813050.07 27813050.16 0.0135 0.0112

Uranus 71437-09-07 18:15 G 27813138.15 27813138.26 27813138.37 0.0135 0.0091

Jupiter 71437-10-10 13:27 G 27813170.90 27813171.06 27813171.21 0.0485 0.0050

Uranus 71437-12-04 22:34 G 27813226.31 27813226.44 27813226.57 0.0135 0.0070

Uranus 71438-03-03 02:53 G 27813314.48 27813314.62 27813314.76 0.0135 0.0050

Uranus 71438-05-30 07:12 G 27813402.65 27813402.80 27813402.95 0.0135 0.0029

Earth 71438-08-26 08:39 G 27813490.75 27813490.86 27813490.96 0.2700 0.1462

Moon 71438-08-26 09:22 G 27813490.78 27813490.89 27813491.00 0.2704 0.1298 *

Uranus 71438-08-26 11:31 G 27813490.83 27813490.98 27813491.13 0.0135 0.0009 *

Uranus 71438-11-22 15:36 G 27813579.00 27813579.15 27813579.30 0.0135 0.0012

Uranus 71439-02-18 19:41 G 27813667.18 27813667.32 27813667.47 0.0135 0.0033

Uranus 71439-05-18 00:00 G 27813755.36 27813755.50 27813755.64 0.0135 0.0052

Uranus 71439-08-14 04:05 G 27813843.55 27813843.67 27813843.80 0.0135 0.0072

Uranus 71439-11-10 07:55 G 27813931.74 27813931.83 27813931.95 0.0135 0.0093

Uranus 71440-02-06 12:15 G 27814019.93 27814020.01 27814020.10 0.0136 0.0112

Uranus 71440-05-04 16:19 G 27814108.15 27814108.18 27814108.22 0.0136 0.0132

Neptune 71441-07-16 01:12 G 27814545.54 27814545.55 27814545.58 0.0090 0.0089

Neptune 71441-10-12 03:22 G 27814633.58 27814633.64 27814633.71 0.0090 0.0080

Neptune 71442-01-08 05:17 G 27814721.64 27814721.72 27814721.82 0.0090 0.0071

Neptune 71442-04-06 07:12 G 27814809.71 27814809.80 27814809.93 0.0090 0.0063

Neptune 71442-07-03 09:22 G 27814897.78 27814897.89 27814898.03 0.0090 0.0054

Mars 71442-09-22 05:17 G 27814978.58 27814978.72 27814978.86 0.1687 0.0525

Neptune 71442-09-29 11:31 G 27814985.86 27814985.98 27814986.12 0.0090 0.0045

Neptune 71442-12-26 13:41 G 27815073.93 27815074.07 27815074.21 0.0090 0.0036

Neptune 71443-03-24 15:36 G 27815162.01 27815162.15 27815162.30 0.0090 0.0028

Neptune 71443-06-20 17:46 G 27815250.09 27815250.24 27815250.39 0.0090 0.0019

Jupiter 71443-09-15 06:58 G 27815336.73 27815336.79 27815336.86 0.0543 0.0480

Neptune 71443-09-16 19:41 G 27815338.17 27815338.32 27815338.48 0.0090 0.0010

Neptune 71443-12-13 21:51 G 27815426.26 27815426.41 27815426.56 0.0090 0.0002

Jupiter 71443-12-14 01:27 G 27815426.47 27815426.56 27815426.66 0.0544 0.0403 *

Neptune 71444-03-10 23:46 G 27815514.34 27815514.49 27815514.64 0.0090 0.0007

Neptune 71444-06-07 01:41 G 27815602.42 27815602.57 27815602.72 0.0090 0.0016

Neptune 71444-09-03 03:36 G 27815690.51 27815690.65 27815690.80 0.0090 0.0024

Neptune 71444-11-30 05:31 G 27815778.60 27815778.73 27815778.88 0.0090 0.0033

Neptune 71445-02-26 07:27 G 27815866.68 27815866.81 27815866.95 0.0090 0.0041

Neptune 71445-05-25 09:22 G 27815954.77 27815954.89 27815955.02 0.0090 0.0050

Neptune 71445-08-21 11:31 G 27816042.86 27816042.98 27816043.09 0.0090 0.0058

Neptune 71445-11-17 12:58 G 27816130.96 27816131.04 27816131.16 0.0089 0.0067

Neptune 71446-02-13 15:07 G 27816219.06 27816219.13 27816219.22 0.0089 0.0075

Neptune 71446-05-12 17:03 G 27816307.16 27816307.21 27816307.27 0.0089 0.0083

Moon 71447-03-05 13:55 G 27816604.02 27816604.08 27816604.14 0.2634 0.2336

Earth 71447-03-05 15:07 G 27816604.07 27816604.13 27816604.18 0.2635 0.2377 *

Jupiter 71449-07-29 15:36 G 27817481.01 27817481.15 27817481.29 0.0485 0.0211

Jupiter 71449-10-27 05:31 G 27817570.68 27817570.73 27817570.78 0.0484 0.0452

Saturn 71450-04-17 10:48 G 27817742.83 27817742.95 27817743.09 0.0281 0.0140

Saturn 71450-07-15 02:24 G 27817831.44 27817831.60 27817831.75 0.0281 0.0008

Saturn 71450-10-11 18:00 G 27817920.12 27817920.25 27817920.38 0.0281 0.0155

Earth 71451-08-29 05:46 G 27818241.62 27818241.74 27818241.86 0.2699 0.0057

Moon 71451-08-29 06:43 G 27818241.66 27818241.78 27818241.90 0.2699 0.0003 *

Mars 71452-02-12 09:36 G 27818408.83 27818408.90 27818408.98 0.1692 0.1443

Mars 71453-03-04 23:31 G 27818795.37 27818795.48 27818795.59 0.1845 0.0927

Earth 71454-02-25 22:34 G 27819153.35 27819153.44 27819153.53 0.2633 0.1881

Moon 71454-02-25 23:17 G 27819153.38 27819153.47 27819153.57 0.2628 0.1843 *

Jupiter 71455-10-02 01:55 G 27819736.44 27819736.58 27819736.72 0.0544 0.0172

Venus 71457-09-04 01:12 G 27820439.45 27820439.55 27820439.66 0.3698 0.1708

Jupiter 71461-05-17 18:15 G 27821791.16 27821791.26 27821791.36 0.0485 0.0366

Jupiter 71461-08-15 07:41 G 27821880.69 27821880.82 27821880.94 0.0484 0.0288

Mars 71462-07-26 05:46 G 27822225.61 27822225.74 27822225.87 0.1839 0.0067

Venus 71463-03-20 20:39 G 27822463.26 27822463.36 27822463.46 0.3697 0.1916

Mars 71463-06-10 19:41 G 27822545.23 27822545.32 27822545.40 0.1677 0.1337

Saturn 71464-08-26 19:55 G 27822988.22 27822988.33 27822988.44 0.0278 0.0188

Earth 71464-08-31 02:39 G 27822992.51 27822992.61 27822992.72 0.2698 0.1303

Moon 71464-08-31 03:22 G 27822992.53 27822992.64 27822992.74 0.2692 0.1385 *

Saturn 71464-11-23 11:31 G 27823076.83 27823076.98 27823077.14 0.0278 0.0043

Saturn 71465-02-20 02:53 G 27823165.48 27823165.62 27823165.76 0.0278 0.0100

Saturn 71465-05-19 17:46 G 27823254.17 27823254.24 27823254.32 0.0277 0.0239

Moon 71467-02-28 21:36 G 27823904.26 27823904.40 27823904.53 0.2627 0.0404

Earth 71467-02-28 21:36 G 27823904.27 27823904.40 27823904.53 0.2633 0.0414 *

Jupiter 71467-07-21 03:07 G 27824046.48 27824046.63 27824046.78 0.0544 0.0043

Earth 71471-08-24 16:19 G 27825542.16 27825542.18 27825542.21 0.2701 0.2634

Moon 71471-08-24 16:34 G 27825542.16 27825542.19 27825542.23 0.2707 0.2557 *

Mars 71471-12-16 12:29 G 27825655.92 27825656.02 27825656.12 0.1833 0.1013

Mars 71472-10-31 00:43 G 27825975.39 27825975.53 27825975.67 0.1682 0.0487

Jupiter 71473-06-03 09:36 G 27826190.75 27826190.90 27826191.05 0.0484 0.0120

Venus 71475-10-30 13:41 G 27827069.95 27827070.07 27827070.20 0.3674 0.0140

Earth 71477-09-02 23:17 G 27827743.44 27827743.47 27827743.50 0.2697 0.2614

Moon 71477-09-02 23:17 G 27827743.45 27827743.47 27827743.49 0.2690 0.2624 *

Uranus 71478-03-27 22:19 G 27827949.37 27827949.43 27827949.52 0.0143 0.0125

Uranus 71478-06-24 04:05 G 27828037.56 27828037.67 27828037.79 0.0143 0.0099

Uranus 71478-09-20 09:36 G 27828125.77 27828125.90 27828126.05 0.0143 0.0073

Uranus 71478-12-17 15:22 G 27828213.99 27828214.14 27828214.29 0.0143 0.0047

Uranus 71479-03-15 21:07 G 27828302.22 27828302.38 27828302.54 0.0143 0.0022

Jupiter 71479-05-09 04:34 G 27828356.56 27828356.69 27828356.82 0.0544 0.0255

Uranus 71479-06-12 02:39 G 27828390.45 27828390.61 27828390.78 0.0143 0.0006

Saturn 71479-09-04 11:17 G 27828474.86 27828474.97 27828475.08 0.0281 0.0187

Uranus 71479-09-08 08:24 G 27828478.70 27828478.85 27828479.01 0.0143 0.0031

Saturn 71479-12-02 02:24 G 27828563.45 27828563.60 27828563.76 0.0281 0.0044

Uranus 71479-12-05 14:24 G 27828566.95 27828567.10 27828567.25 0.0143 0.0057

Saturn 71480-02-28 18:00 G 27828652.11 27828652.25 27828652.40 0.0281 0.0105

Uranus 71480-03-02 19:55 G 27828655.21 27828655.33 27828655.47 0.0143 0.0084

Moon 71480-03-02 20:10 G 27828655.22 27828655.34 27828655.47 0.2629 0.1059 *

Earth 71480-03-02 20:53 G 27828655.25 27828655.37 27828655.50 0.2634 0.1103 *

Saturn 71480-05-27 09:51 G 27828740.86 27828740.91 27828740.98 0.0281 0.0256

Uranus 71480-05-30 01:41 G 27828743.48 27828743.57 27828743.69 0.0143 0.0111

Uranus 71480-08-26 07:55 G 27828831.79 27828831.83 27828831.87 0.0143 0.0137

Mars 71482-03-23 05:46 G 27829405.59 27829405.74 27829405.88 0.1687 0.0392

Earth 71484-08-26 13:55 G 27830292.97 27830293.08 27830293.19 0.2700 0.1188

Moon 71484-08-26 14:53 G 27830293.01 27830293.12 27830293.23 0.2703 0.1184 *

Jupiter 71485-03-22 11:46 G 27830500.84 27830500.99 27830501.15 0.0485 0.0044

Jupiter 71491-02-25 05:17 G 27832666.65 27832666.72 27832666.79 0.0543 0.0475

Jupiter 71491-05-26 00:00 G 27832756.41 27832756.50 27832756.59 0.0544 0.0409

Mars 71491-08-13 10:05 G 27832835.83 27832835.92 27832836.01 0.1692 0.1313

Mars 71492-09-02 23:17 G 27833222.36 27833222.47 27833222.57 0.1845 0.1020

Moon 71493-03-05 19:27 G 27833406.27 27833406.31 27833406.35 0.2635 0.2478

Saturn 71494-01-13 19:55 G 27833720.26 27833720.33 27833720.42 0.0279 0.0238

Saturn 71494-04-12 12:00 G 27833808.85 27833809.00 27833809.15 0.0278 0.0090

Saturn 71494-07-10 03:22 G 27833897.49 27833897.64 27833897.79 0.0278 0.0055

Saturn 71494-10-06 18:29 G 27833986.16 27833986.27 27833986.38 0.0278 0.0195

Pluto 71496-07-16 15:36 G 27834635.09 27834635.15 27834635.25 0.0080 0.0069

Pluto 71496-10-12 17:31 G 27834723.11 27834723.23 27834723.37 0.0080 0.0048

Jupiter 71497-01-08 13:41 G 27834810.93 27834811.07 27834811.21 0.0485 0.0210

Pluto 71497-01-08 19:12 G 27834811.16 27834811.30 27834811.47 0.0080 0.0027 *

Pluto 71497-04-06 21:22 G 27834899.23 27834899.39 27834899.55 0.0079 0.0005

Jupiter 71497-04-08 03:36 G 27834900.60 27834900.65 27834900.70 0.0484 0.0453

Pluto 71497-07-03 22:48 G 27834987.30 27834987.45 27834987.62 0.0079 0.0017

Earth 71497-08-29 11:03 G 27835043.84 27835043.96 27835044.08 0.2699 0.0206

Moon 71497-08-29 12:00 G 27835043.87 27835044.00 27835044.12 0.2697 0.0380 *

Pluto 71497-09-30 00:29 G 27835075.39 27835075.52 27835075.68 0.0079 0.0037

Pluto 71497-12-27 02:10 G 27835163.50 27835163.59 27835163.72 0.0079 0.0058

Pluto 71498-03-25 04:05 G 27835251.67 27835251.67 27835251.69 0.0079 0.0079

Earth 71500-02-27 04:05 G 27835955.56 27835955.67 27835955.77 0.2632 0.1606

Moon 71500-02-27 04:48 G 27835955.59 27835955.70 27835955.81 0.2628 0.1478 *

Mars 71502-01-25 06:00 G 27836652.62 27836652.75 27836652.87 0.1839 0.0073

Mars 71502-12-10 19:55 G 27836972.26 27836972.33 27836972.40 0.1677 0.1456

Jupiter 71503-03-15 00:43 G 27837066.40 27837066.53 27837066.67 0.0543 0.0188

Jupiter 71508-10-28 16:05 G 27839121.07 27839121.17 27839121.27 0.0485 0.0369

Saturn 71509-01-22 14:10 G 27839207.00 27839207.09 27839207.19 0.0280 0.0213

Jupiter 71509-01-26 05:31 G 27839210.60 27839210.73 27839210.86 0.0484 0.0286

Saturn 71509-04-21 05:31 G 27839295.58 27839295.73 27839295.87 0.0281 0.0069

Saturn 71509-07-18 20:53 G 27839384.22 27839384.37 27839384.52 0.0281 0.0078

Saturn 71509-10-15 12:58 G 27839472.95 27839473.04 27839473.12 0.0281 0.0229

Earth 71510-09-02 07:55 G 27839794.73 27839794.83 27839794.93 0.2698 0.1555

Moon 71510-09-02 08:24 G 27839794.75 27839794.85 27839794.95 0.2692 0.1577 *

Mars 71511-06-17 12:29 G 27840082.91 27840083.02 27840083.13 0.1833 0.0899

Mars 71512-05-02 01:12 G 27840402.41 27840402.55 27840402.69 0.1682 0.0613

Moon 71513-03-02 03:07 G 27840706.49 27840706.63 27840706.76 0.2626 0.0206

Earth 71513-03-02 03:07 G 27840706.50 27840706.63 27840706.77 0.2633 0.0135 *

Venus 71514-04-11 23:46 G 27841112.37 27841112.49 27841112.61 0.3698 0.0348

Jupiter 71515-01-01 00:58 G 27841376.39 27841376.54 27841376.68 0.0544 0.0054

Earth 71517-08-25 21:51 G 27842344.35 27842344.41 27842344.47 0.2700 0.2357

Moon 71517-08-25 22:19 G 27842344.37 27842344.43 27842344.48 0.2706 0.2357 *

Venus 71519-10-26 19:12 G 27843136.24 27843136.30 27843136.35 0.3696 0.3226

Mars 71520-11-06 19:27 G 27843513.30 27843513.31 27843513.33 0.1827 0.1812

Jupiter 71520-11-14 07:55 G 27843520.68 27843520.83 27843520.98 0.0484 0.0125

Uranus 71521-04-05 17:31 G 27843663.17 27843663.23 27843663.29 0.0135 0.0123

Uranus 71521-07-02 21:51 G 27843751.31 27843751.41 27843751.51 0.0135 0.0102

Mars 71521-09-22 06:00 G 27843832.60 27843832.75 27843832.90 0.1687 0.0270

Uranus 71521-09-29 01:55 G 27843839.47 27843839.58 27843839.71 0.0135 0.0082

Uranus 71521-12-26 06:15 G 27843927.63 27843927.76 27843927.91 0.0135 0.0061

Uranus 71522-03-24 10:48 G 27844015.80 27844015.95 27844016.09 0.0135 0.0040

Uranus 71522-06-20 14:53 G 27844103.98 27844104.12 27844104.28 0.0135 0.0021

Uranus 71522-09-16 19:12 G 27844192.15 27844192.30 27844192.46 0.0135 0.0003

Uranus 71522-12-13 23:31 G 27844280.33 27844280.48 27844280.63 0.0135 0.0021

Uranus 71523-03-12 03:36 G 27844368.51 27844368.65 27844368.80 0.0135 0.0041

Saturn 71523-06-03 22:48 G 27844452.40 27844452.45 27844452.50 0.0278 0.0264

Uranus 71523-06-08 07:41 G 27844456.69 27844456.82 27844456.96 0.0135 0.0062

Saturn 71523-08-31 14:39 G 27844540.97 27844541.11 27844541.26 0.0278 0.0116

Uranus 71523-09-04 12:00 G 27844544.88 27844545.00 27844545.12 0.0135 0.0081

Saturn 71523-11-28 06:15 G 27844629.61 27844629.76 27844629.91 0.0278 0.0028

Uranus 71523-12-01 15:51 G 27844633.07 27844633.16 27844633.27 0.0135 0.0102

Saturn 71524-02-24 21:22 G 27844718.27 27844718.39 27844718.51 0.0278 0.0169

Uranus 71524-02-27 19:55 G 27844721.28 27844721.33 27844721.40 0.0136 0.0122

Neptune 71524-09-21 02:39 G 27844927.57 27844927.61 27844927.69 0.0088 0.0082

Neptune 71524-12-18 05:03 G 27845015.63 27845015.71 27845015.81 0.0088 0.0073

Neptune 71525-03-16 07:12 G 27845103.70 27845103.80 27845103.92 0.0088 0.0065

Neptune 71525-06-12 09:36 G 27845191.78 27845191.90 27845192.03 0.0088 0.0056

Neptune 71525-09-08 11:46 G 27845279.86 27845279.99 27845280.13 0.0088 0.0048

Neptune 71525-12-05 14:10 G 27845367.94 27845368.09 27845368.23 0.0088 0.0039

Neptune 71526-03-03 16:19 G 27845456.03 27845456.18 27845456.34 0.0088 0.0031

Moon 71526-03-05 01:41 G 27845457.45 27845457.57 27845457.69 0.2631 0.1309

Earth 71526-03-05 02:39 G 27845457.49 27845457.61 27845457.72 0.2634 0.1398 *

Neptune 71526-05-30 18:43 G 27845544.12 27845544.28 27845544.43 0.0088 0.0022

Neptune 71526-08-26 20:53 G 27845632.21 27845632.37 27845632.53 0.0088 0.0013

Jupiter 71526-10-20 01:41 G 27845686.45 27845686.57 27845686.70 0.0544 0.0271

Venus 71526-11-21 15:36 G 27845719.06 27845719.15 27845719.23 0.3673 0.2670

Neptune 71526-11-22 23:17 G 27845720.30 27845720.47 27845720.63 0.0088 0.0005

Neptune 71527-02-19 01:27 G 27845808.40 27845808.56 27845808.73 0.0088 0.0004

Neptune 71527-05-18 03:36 G 27845896.49 27845896.65 27845896.82 0.0088 0.0013

Neptune 71527-08-14 06:00 G 27845984.59 27845984.75 27845984.91 0.0088 0.0021

Neptune 71527-11-10 08:24 G 27846072.70 27846072.85 27846073.01 0.0088 0.0030

Neptune 71528-02-06 10:34 G 27846160.80 27846160.94 27846161.10 0.0088 0.0039

Neptune 71528-05-04 12:58 G 27846248.91 27846249.04 27846249.18 0.0088 0.0048

Neptune 71528-07-31 15:07 G 27846337.02 27846337.13 27846337.27 0.0088 0.0057

Neptune 71528-10-27 17:31 G 27846425.13 27846425.23 27846425.35 0.0088 0.0066

Neptune 71529-01-23 19:55 G 27846513.26 27846513.33 27846513.43 0.0088 0.0075

Neptune 71529-04-21 22:19 G 27846601.40 27846601.43 27846601.49 0.0088 0.0084

Earth 71530-08-28 19:12 G 27847095.18 27847095.30 27847095.42 0.2700 0.0924

Moon 71530-08-28 20:10 G 27847095.22 27847095.34 27847095.45 0.2703 0.0760 *

Mars 71531-02-12 10:34 G 27847262.83 27847262.94 27847263.04 0.1693 0.1186

Mars 71532-03-04 23:31 G 27847649.38 27847649.48 27847649.58 0.1845 0.1143

Venus 71532-06-06 12:43 G 27847742.91 27847743.03 27847743.14 0.3674 0.1383

Jupiter 71532-09-02 09:51 G 27847830.76 27847830.91 27847831.07 0.0485 0.0042

Moon 71533-02-25 11:46 G 27848006.97 27848006.99 27848007.02 0.2630 0.2570

Saturn 71538-06-11 14:39 G 27849939.06 27849939.11 27849939.17 0.0281 0.0258

Jupiter 71538-08-08 02:53 G 27849996.56 27849996.62 27849996.69 0.0543 0.0485

Saturn 71538-09-08 05:46 G 27850027.60 27850027.74 27850027.88 0.0281 0.0117

Jupiter 71538-11-05 21:36 G 27850086.31 27850086.40 27850086.50 0.0544 0.0403

Saturn 71538-12-05 21:07 G 27850116.23 27850116.38 27850116.53 0.0281 0.0029

Saturn 71539-03-04 12:43 G 27850204.92 27850205.03 27850205.16 0.0281 0.0178

Mars 71541-07-26 05:46 G 27851079.62 27851079.74 27851079.87 0.1839 0.0161

Mars 71542-06-10 20:24 G 27851399.30 27851399.35 27851399.40 0.1677 0.1576

Earth 71543-08-31 16:19 G 27851846.06 27851846.18 27851846.30 0.2699 0.0467

Moon 71543-08-31 17:03 G 27851846.09 27851846.21 27851846.34 0.2696 0.0482 *

Jupiter 71544-06-21 12:15 G 27852140.87 27852141.01 27852141.15 0.0485 0.0201

Jupiter 71544-09-19 01:55 G 27852230.54 27852230.58 27852230.63 0.0484 0.0461

Earth 71546-02-28 09:36 G 27852757.79 27852757.90 27852758.02 0.2633 0.1326

Moon 71546-02-28 10:05 G 27852757.80 27852757.92 27852758.03 0.2627 0.1359 *

Jupiter 71550-08-24 23:03 G 27854396.33 27854396.46 27854396.60 0.0544 0.0194

Mars 71550-12-16 12:29 G 27854509.91 27854510.02 27854510.13 0.1833 0.0799

Mars 71551-11-01 01:41 G 27854829.44 27854829.57 27854829.70 0.1682 0.0741

Saturn 71553-01-17 14:53 G 27855272.99 27855273.12 27855273.24 0.0278 0.0166

Saturn 71553-04-16 06:29 G 27855361.62 27855361.77 27855361.93 0.0278 0.0020

Saturn 71553-07-13 21:36 G 27855450.27 27855450.40 27855450.55 0.0278 0.0123

Saturn 71553-10-10 12:43 G 27855538.98 27855539.03 27855539.08 0.0278 0.0261

Jupiter 71556-04-09 14:24 G 27856451.00 27856451.10 27856451.19 0.0485 0.0367

Jupiter 71556-07-08 03:36 G 27856540.53 27856540.65 27856540.78 0.0484 0.0288

Earth 71556-09-02 12:58 G 27856596.96 27856597.04 27856597.13 0.2698 0.1810

Moon 71556-09-02 13:27 G 27856596.98 27856597.06 27856597.15 0.2692 0.1901 *

Moon 71559-03-03 08:39 G 27857508.72 27857508.86 27857508.99 0.2627 0.0205

Earth 71559-03-03 08:53 G 27857508.73 27857508.87 27857509.00 0.2634 0.0181 *

Mars 71560-05-07 19:41 G 27857940.28 27857940.32 27857940.36 0.1827 0.1693

Mars 71561-03-23 06:29 G 27858259.62 27858259.77 27858259.91 0.1687 0.0146

Uranus 71562-01-20 00:58 G 27858562.51 27858562.54 27858562.58 0.0143 0.0139

Uranus 71562-04-18 06:29 G 27858650.68 27858650.77 27858650.87 0.0143 0.0114

Jupiter 71562-06-13 00:00 G 27858706.35 27858706.50 27858706.64 0.0543 0.0033

Uranus 71562-07-15 12:00 G 27858738.88 27858739.00 27858739.13 0.0143 0.0088

Uranus 71562-10-11 17:46 G 27858827.09 27858827.24 27858827.38 0.0143 0.0063

Uranus 71563-01-07 23:17 G 27858915.32 27858915.47 27858915.63 0.0143 0.0037

Uranus 71563-04-06 05:03 G 27859003.55 27859003.71 27859003.87 0.0143 0.0011

Uranus 71563-07-03 10:48 G 27859091.79 27859091.95 27859092.11 0.0143 0.0015

Earth 71563-08-27 03:07 G 27859146.55 27859146.63 27859146.71 0.2700 0.2084

Moon 71563-08-27 03:51 G 27859146.57 27859146.66 27859146.74 0.2706 0.2009 *

Uranus 71563-09-29 16:19 G 27859180.03 27859180.18 27859180.34 0.0143 0.0042

Uranus 71563-12-26 22:19 G 27859268.28 27859268.43 27859268.57 0.0143 0.0068

Uranus 71564-03-24 03:51 G 27859356.55 27859356.66 27859356.80 0.0143 0.0095

Uranus 71564-06-20 09:51 G 27859444.83 27859444.91 27859445.00 0.0143 0.0122

Venus 71565-05-03 02:39 G 27859761.53 27859761.61 27859761.69 0.3699 0.2689

Saturn 71568-01-26 08:10 G 27860759.71 27860759.84 27860759.97 0.0281 0.0147

Saturn 71568-04-23 23:31 G 27860848.33 27860848.48 27860848.63 0.0281 0.0003

Jupiter 71568-04-26 05:46 G 27860850.59 27860850.74 27860850.89 0.0485 0.0124

Saturn 71568-07-21 15:07 G 27860937.00 27860937.13 27860937.27 0.0281 0.0147

Mars 71570-08-13 10:48 G 27861689.84 27861689.95 27861690.07 0.1692 0.1054

Venus 71570-11-16 22:05 G 27861785.31 27861785.42 27861785.54 0.3697 0.1002

Mars 71571-09-03 23:31 G 27862076.39 27862076.48 27862076.57 0.1845 0.1258

Moon 71572-03-05 07:12 G 27862259.69 27862259.80 27862259.91 0.2632 0.1549

Earth 71572-03-05 08:10 G 27862259.74 27862259.84 27862259.95 0.2634 0.1693 *

Jupiter 71574-03-31 23:31 G 27863016.36 27863016.48 27863016.61 0.0543 0.0276

Earth 71576-08-29 00:29 G 27863897.40 27863897.52 27863897.64 0.2699 0.0656

Moon 71576-08-29 01:27 G 27863897.44 27863897.56 27863897.68 0.2702 0.0628 *

Earth 71579-02-26 16:19 G 27864809.14 27864809.18 27864809.22 0.2632 0.2486

Moon 71579-02-26 17:17 G 27864809.18 27864809.22 27864809.27 0.2629 0.2458 *

Jupiter 71580-02-13 08:24 G 27865160.69 27865160.85 27865161.00 0.0485 0.0037

Mars 71581-01-24 06:00 G 27865506.62 27865506.75 27865506.87 0.1839 0.0269

Saturn 71582-06-06 17:31 G 27866005.12 27866005.23 27866005.35 0.0278 0.0191

Saturn 71582-09-03 09:22 G 27866093.74 27866093.89 27866094.04 0.0278 0.0045

Saturn 71582-12-01 00:43 G 27866182.38 27866182.53 27866182.67 0.0278 0.0098

Saturn 71583-02-27 15:36 G 27866271.07 27866271.15 27866271.23 0.0277 0.0236

Venus 71583-06-28 14:24 G 27866391.98 27866392.10 27866392.21 0.3673 0.1225

Jupiter 71586-01-18 00:15 G 27867326.46 27867326.51 27867326.57 0.0543 0.0500

Jupiter 71586-04-17 19:12 G 27867416.20 27867416.30 27867416.40 0.0544 0.0390

Venus 71589-01-11 11:31 G 27868415.90 27868415.98 27868416.05 0.3674 0.2869

Earth 71589-08-31 21:36 G 27868648.28 27868648.40 27868648.51 0.2699 0.0725

Moon 71589-08-31 22:19 G 27868648.32 27868648.43 27868648.55 0.2695 0.0891 *

Mars 71590-06-16 12:43 G 27868936.91 27868937.03 27868937.14 0.1833 0.0684

Mars 71591-05-02 01:55 G 27869256.45 27869256.58 27869256.71 0.1682 0.0854

Jupiter 71591-12-02 10:34 G 27869470.80 27869470.94 27869471.08 0.0485 0.0197

Earth 71592-02-29 15:07 G 27869560.01 27869560.13 27869560.25 0.2633 0.1055

Moon 71592-02-29 15:22 G 27869560.02 27869560.14 27869560.27 0.2626 0.0941 *

Jupiter 71592-03-01 00:15 G 27869560.47 27869560.51 27869560.55 0.0484 0.0464

Saturn 71597-06-14 08:39 G 27871491.76 27871491.86 27871491.98 0.0281 0.0193

Saturn 71597-09-11 00:00 G 27871580.35 27871580.50 27871580.65 0.0281 0.0049

Saturn 71597-12-08 15:36 G 27871669.00 27871669.15 27871669.29 0.0281 0.0099

Jupiter 71598-02-03 20:53 G 27871726.23 27871726.37 27871726.51 0.0544 0.0185

Saturn 71598-03-07 07:12 G 27871757.74 27871757.80 27871757.88 0.0281 0.0249

Mars 71599-11-06 19:27 G 27872367.26 27872367.31 27872367.37 0.1826 0.1600

Mars 71600-09-21 06:58 G 27872686.64 27872686.79 27872686.93 0.1687 0.0048

Moon 71602-09-03 18:29 G 27873399.19 27873399.27 27873399.35 0.2692 0.2017

Earth 71602-09-03 18:15 G 27873399.19 27873399.26 27873399.34 0.2698 0.2061 *

Jupiter 71603-09-20 12:58 G 27873780.94 27873781.04 27873781.15 0.0485 0.0355

Jupiter 71603-12-19 02:10 G 27873870.47 27873870.59 27873870.72 0.0484 0.0300

Moon 71605-03-03 13:55 G 27874310.94 27874311.08 27874311.21 0.2628 0.0328

Earth 71605-03-03 14:24 G 27874310.96 27874311.10 27874311.23 0.2634 0.0446 *

Uranus 71605-04-26 01:12 G 27874364.47 27874364.55 27874364.63 0.0135 0.0114

Uranus 71605-07-23 05:31 G 27874452.63 27874452.73 27874452.85 0.0135 0.0093

Uranus 71605-10-19 10:05 G 27874540.79 27874540.92 27874541.05 0.0135 0.0072

Uranus 71606-01-15 14:10 G 27874628.96 27874629.09 27874629.24 0.0135 0.0052

Neptune 71606-04-12 23:31 G 27874716.45 27874716.48 27874716.52 0.0090 0.0087

Uranus 71606-04-13 18:29 G 27874717.13 27874717.27 27874717.42 0.0135 0.0031

Neptune 71606-07-10 01:12 G 27874804.50 27874804.55 27874804.64 0.0090 0.0079

Uranus 71606-07-10 22:48 G 27874805.30 27874805.45 27874805.60 0.0135 0.0011

Neptune 71606-10-06 03:22 G 27874892.56 27874892.64 27874892.75 0.0090 0.0070

Uranus 71606-10-07 03:07 G 27874893.48 27874893.63 27874893.78 0.0135 0.0010

Neptune 71607-01-02 05:31 G 27874980.63 27874980.73 27874980.86 0.0090 0.0061

Uranus 71607-01-03 07:12 G 27874981.66 27874981.80 27874981.95 0.0135 0.0031

Neptune 71607-03-31 07:41 G 27875068.70 27875068.82 27875068.95 0.0090 0.0052

Uranus 71607-04-01 11:31 G 27875069.84 27875069.98 27875070.12 0.0135 0.0050

Neptune 71607-06-27 09:51 G 27875156.78 27875156.91 27875157.05 0.0090 0.0043

Uranus 71607-06-28 15:36 G 27875158.03 27875158.15 27875158.28 0.0135 0.0071

Neptune 71607-09-23 11:46 G 27875244.86 27875244.99 27875245.14 0.0090 0.0035

Uranus 71607-09-24 19:41 G 27875246.22 27875246.32 27875246.43 0.0135 0.0091

Neptune 71607-12-20 13:55 G 27875332.94 27875333.08 27875333.23 0.0090 0.0026

Uranus 71607-12-21 23:46 G 27875334.41 27875334.49 27875334.58 0.0135 0.0111

Neptune 71608-03-17 16:05 G 27875421.02 27875421.17 27875421.32 0.0090 0.0017

Uranus 71608-03-19 03:51 G 27875422.63 27875422.66 27875422.70 0.0136 0.0130

Neptune 71608-06-13 18:00 G 27875509.10 27875509.25 27875509.40 0.0090 0.0008

Neptune 71608-09-09 19:55 G 27875597.18 27875597.33 27875597.49 0.0090 0.0003

Neptune 71608-12-06 22:05 G 27875685.27 27875685.42 27875685.57 0.0090 0.0009

Neptune 71609-03-05 00:00 G 27875773.35 27875773.50 27875773.65 0.0090 0.0018

Neptune 71609-06-01 01:55 G 27875861.44 27875861.58 27875861.73 0.0090 0.0026

Earth 71609-08-27 08:24 G 27875948.76 27875948.85 27875948.94 0.2700 0.1813

Moon 71609-08-27 09:07 G 27875948.79 27875948.88 27875948.97 0.2706 0.1751 *

Neptune 71609-08-28 03:51 G 27875949.53 27875949.66 27875949.80 0.0090 0.0035

Jupiter 71609-11-22 22:19 G 27876036.28 27876036.43 27876036.58 0.0544 0.0026

Neptune 71609-11-24 05:31 G 27876037.61 27876037.73 27876037.88 0.0090 0.0044

Mars 71610-02-11 11:17 G 27876116.85 27876116.97 27876117.10 0.1692 0.0922

Neptune 71610-02-20 07:41 G 27876125.70 27876125.82 27876125.95 0.0090 0.0052

Neptune 71610-05-19 09:36 G 27876213.80 27876213.90 27876214.02 0.0089 0.0060

Neptune 71610-08-15 11:17 G 27876301.89 27876301.97 27876302.08 0.0089 0.0069

Neptune 71610-11-11 13:12 G 27876389.99 27876390.05 27876390.14 0.0089 0.0077

Neptune 71611-02-07 15:22 G 27876478.10 27876478.14 27876478.19 0.0089 0.0085

Mars 71611-03-04 23:31 G 27876503.40 27876503.48 27876503.57 0.1845 0.1360

Saturn 71611-10-24 17:17 G 27876737.15 27876737.22 27876737.30 0.0278 0.0244

Saturn 71612-01-21 09:07 G 27876825.74 27876825.88 27876826.03 0.0278 0.0097

Saturn 71612-04-19 00:43 G 27876914.38 27876914.53 27876914.68 0.0278 0.0047

Saturn 71612-07-16 15:36 G 27877003.05 27877003.15 27877003.27 0.0278 0.0188

Jupiter 71615-10-07 04:05 G 27878180.52 27878180.67 27878180.82 0.0485 0.0128

Moon 71618-03-06 12:43 G 27879061.94 27879062.03 27879062.12 0.2632 0.1924

Earth 71618-03-06 13:55 G 27879061.99 27879062.08 27879062.17 0.2635 0.1991 *

Mars 71620-07-25 06:00 G 27879933.63 27879933.75 27879933.88 0.1839 0.0385

Jupiter 71621-09-10 23:03 G 27880346.33 27880346.46 27880346.59 0.0543 0.0251

Venus 71621-12-08 00:58 G 27880434.44 27880434.54 27880434.66 0.3698 0.1329

Earth 71622-08-30 05:46 G 27880699.62 27880699.74 27880699.86 0.2699 0.0394

Moon 71622-08-30 06:43 G 27880699.66 27880699.78 27880699.90 0.2700 0.0262 *

Earth 71625-02-26 21:51 G 27881611.34 27881611.41 27881611.48 0.2632 0.2223

Moon 71625-02-26 22:34 G 27881611.36 27881611.44 27881611.52 0.2628 0.2089 *

Saturn 71626-11-01 10:48 G 27882223.86 27882223.95 27882224.04 0.0281 0.0227

Saturn 71627-01-29 01:41 G 27882312.43 27882312.57 27882312.72 0.0281 0.0085

Saturn 71627-04-27 17:17 G 27882401.07 27882401.22 27882401.37 0.0281 0.0062

Venus 71627-06-23 20:39 G 27882458.27 27882458.36 27882458.45 0.3697 0.2302

Saturn 71627-07-25 08:53 G 27882489.78 27882489.87 27882489.98 0.0281 0.0213

Jupiter 71627-07-26 06:29 G 27882490.61 27882490.77 27882490.92 0.0485 0.0035

Mars 71629-12-15 12:43 G 27883363.91 27883364.03 27883364.15 0.1833 0.0575

Mars 71630-10-31 02:24 G 27883683.48 27883683.60 27883683.72 0.1682 0.0979

Jupiter 71633-06-29 22:19 G 27884656.38 27884656.43 27884656.49 0.0543 0.0500

Jupiter 71633-09-27 17:17 G 27884746.12 27884746.22 27884746.32 0.0544 0.0389

Earth 71635-09-02 02:53 G 27885450.50 27885450.62 27885450.73 0.2698 0.0987

Moon 71635-09-02 03:36 G 27885450.54 27885450.65 27885450.76 0.2695 0.0991 *

Earth 71638-03-01 20:39 G 27886362.23 27886362.36 27886362.49 0.2633 0.0772

Moon 71638-03-01 20:53 G 27886362.24 27886362.37 27886362.50 0.2626 0.0824 *

Mars 71639-05-07 19:41 G 27886794.25 27886794.32 27886794.39 0.1827 0.1483

Jupiter 71639-05-14 08:53 G 27886800.73 27886800.87 27886801.02 0.0485 0.0190

Jupiter 71639-08-11 22:34 G 27886890.42 27886890.44 27886890.48 0.0484 0.0473

Venus 71640-02-02 13:12 G 27887064.92 27887065.05 27887065.17 0.3673 0.0252

Mars 71640-03-22 07:12 G 27887113.65 27887113.80 27887113.95 0.1687 0.0110

Saturn 71641-03-12 20:10 G 27887469.30 27887469.34 27887469.38 0.0278 0.0269

Saturn 71641-06-09 12:00 G 27887557.86 27887558.00 27887558.14 0.0278 0.0121

Saturn 71641-09-06 03:36 G 27887646.50 27887646.65 27887646.81 0.0278 0.0023

Saturn 71641-12-03 18:43 G 27887735.16 27887735.28 27887735.41 0.0278 0.0164

Jupiter 71645-07-16 18:29 G 27889056.13 27889056.27 27889056.41 0.0544 0.0174

Uranus 71646-02-09 08:24 G 27889263.79 27889263.85 27889263.92 0.0143 0.0131

Uranus 71646-05-08 13:55 G 27889351.98 27889352.08 27889352.19 0.0143 0.0105

Uranus 71646-08-04 19:41 G 27889440.18 27889440.32 27889440.45 0.0143 0.0080

Uranus 71646-11-01 00:58 G 27889528.40 27889528.54 27889528.70 0.0143 0.0055

Uranus 71647-01-28 06:43 G 27889616.62 27889616.78 27889616.94 0.0143 0.0028

Uranus 71647-04-26 12:29 G 27889704.86 27889705.02 27889705.18 0.0143 0.0002

Uranus 71647-07-23 18:15 G 27889793.10 27889793.26 27889793.42 0.0143 0.0024

Uranus 71647-10-20 00:00 G 27889881.34 27889881.50 27889881.65 0.0143 0.0050

Uranus 71648-01-16 05:31 G 27889969.60 27889969.73 27889969.88 0.0143 0.0077

Uranus 71648-04-13 11:17 G 27890057.87 27890057.97 27890058.10 0.0143 0.0104

Uranus 71648-07-10 17:31 G 27890146.17 27890146.23 27890146.30 0.0143 0.0130

Earth 71648-09-03 23:31 G 27890201.42 27890201.48 27890201.54 0.2697 0.2311

Moon 71648-09-03 23:31 G 27890201.43 27890201.48 27890201.54 0.2691 0.2384 *

Mars 71649-08-12 11:46 G 27890543.86 27890543.99 27890544.12 0.1693 0.0797

Mars 71650-09-02 23:46 G 27890930.41 27890930.49 27890930.56 0.1845 0.1477

Jupiter 71651-03-02 11:31 G 27891110.87 27891110.98 27891111.08 0.0485 0.0349

Moon 71651-03-04 19:12 G 27891113.17 27891113.30 27891113.43 0.2629 0.0738

Earth 71651-03-04 19:55 G 27891113.20 27891113.33 27891113.46 0.2634 0.0728 *

Jupiter 71651-05-31 00:43 G 27891200.41 27891200.53 27891200.65 0.0484 0.0305

Pluto 71653-09-22 21:51 G 27892046.41 27892046.41 27892046.43 0.0064 0.0064

Pluto 71653-12-19 22:19 G 27892134.37 27892134.43 27892134.54 0.0064 0.0054

Pluto 71654-03-17 23:17 G 27892222.37 27892222.47 27892222.60 0.0064 0.0043

Pluto 71654-06-14 00:15 G 27892310.38 27892310.51 27892310.65 0.0065 0.0032

Pluto 71654-09-10 01:12 G 27892398.40 27892398.55 27892398.69 0.0065 0.0021

Pluto 71654-12-07 01:41 G 27892486.43 27892486.57 27892486.73 0.0065 0.0011

Pluto 71655-03-05 02:39 G 27892574.46 27892574.61 27892574.77 0.0065 0.0001

Pluto 71655-06-01 03:22 G 27892662.49 27892662.64 27892662.79 0.0065 0.0012

Pluto 71655-08-28 04:05 G 27892750.53 27892750.67 27892750.82 0.0065 0.0022

Earth 71655-08-28 13:41 G 27892750.97 27892751.07 27892751.18 0.2700 0.1544

Moon 71655-08-28 14:24 G 27892751.00 27892751.10 27892751.20 0.2705 0.1491 *

Pluto 71655-11-24 04:48 G 27892838.58 27892838.70 27892838.84 0.0065 0.0033

Pluto 71656-02-20 05:31 G 27892926.63 27892926.73 27892926.85 0.0065 0.0044

Saturn 71656-03-20 11:17 G 27892955.94 27892955.97 27892956.01 0.0281 0.0271

Pluto 71656-05-18 06:15 G 27893014.69 27893014.76 27893014.85 0.0065 0.0055

Saturn 71656-06-17 02:24 G 27893044.46 27893044.60 27893044.73 0.0281 0.0130

Saturn 71656-09-13 17:46 G 27893133.08 27893133.24 27893133.39 0.0281 0.0016

Saturn 71656-12-11 09:22 G 27893221.76 27893221.89 27893222.01 0.0281 0.0163

Jupiter 71657-05-04 19:55 G 27893366.18 27893366.33 27893366.48 0.0544 0.0036

Mars 71660-01-24 06:00 G 27894360.63 27894360.75 27894360.87 0.1839 0.0485

Jupiter 71663-03-19 02:53 G 27895510.47 27895510.62 27895510.77 0.0484 0.0142

Moon 71664-03-06 18:29 G 27895864.19 27895864.27 27895864.35 0.2632 0.2109

Earth 71664-03-06 19:27 G 27895864.25 27895864.31 27895864.38 0.2635 0.2285 *

Earth 71668-08-30 11:03 G 27897501.84 27897501.96 27897502.08 0.2699 0.0135

Moon 71668-08-30 12:00 G 27897501.88 27897502.00 27897502.12 0.2698 0.0051 *

Jupiter 71669-02-20 21:22 G 27897676.26 27897676.39 27897676.52 0.0543 0.0245

Mars 71669-06-15 12:43 G 27897790.91 27897791.03 27897791.15 0.1833 0.0469

Mars 71670-05-01 02:53 G 27898110.51 27898110.62 27898110.73 0.1682 0.1105

Saturn 71670-10-27 11:31 G 27898289.86 27898289.98 27898290.10 0.0278 0.0176

Saturn 71671-01-24 03:22 G 27898378.48 27898378.64 27898378.79 0.0278 0.0030

Earth 71671-02-28 03:22 G 27898413.55 27898413.64 27898413.73 0.2632 0.1947

Moon 71671-02-28 04:05 G 27898413.57 27898413.67 27898413.76 0.2627 0.1893 *

Saturn 71671-04-22 18:43 G 27898467.14 27898467.28 27898467.42 0.0278 0.0112

Saturn 71671-07-20 09:36 G 27898555.84 27898555.90 27898555.97 0.0277 0.0250

Jupiter 71675-01-05 04:48 G 27899820.54 27899820.70 27899820.85 0.0485 0.0027

Venus 71678-07-14 23:31 G 27901107.36 27901107.48 27901107.60 0.3698 0.0036

Mars 71678-11-05 19:41 G 27901221.24 27901221.32 27901221.40 0.1826 0.1373

Mars 71679-09-21 07:41 G 27901540.67 27901540.82 27901540.96 0.1687 0.0236

Jupiter 71680-12-09 21:51 G 27901986.34 27901986.41 27901986.49 0.0543 0.0471

Jupiter 71681-03-09 16:48 G 27902076.11 27902076.20 27902076.29 0.0544 0.0416

Earth 71681-09-02 07:55 G 27902252.72 27902252.83 27902252.94 0.2698 0.1236

Moon 71681-09-02 08:39 G 27902252.76 27902252.86 27902252.97 0.2694 0.1364 *

Venus 71684-01-28 18:58 G 27903131.27 27903131.29 27903131.31 0.3697 0.3610

Moon 71684-03-02 02:24 G 27903164.46 27903164.60 27903164.73 0.2627 0.0424

Earth 71684-03-02 02:10 G 27903164.46 27903164.59 27903164.72 0.2633 0.0497 *

Saturn 71685-11-04 03:36 G 27903776.54 27903776.65 27903776.78 0.0281 0.0170

Saturn 71686-01-31 18:58 G 27903865.14 27903865.29 27903865.44 0.0281 0.0026

Saturn 71686-04-30 10:34 G 27903953.80 27903953.94 27903954.08 0.0281 0.0122

Saturn 71686-07-28 02:24 G 27904042.57 27904042.60 27904042.64 0.0281 0.0273

Jupiter 71686-10-24 07:12 G 27904130.66 27904130.80 27904130.94 0.0485 0.0185

Jupiter 71687-01-21 20:53 G 27904220.35 27904220.37 27904220.40 0.0484 0.0477

Mars 71689-02-10 12:15 G 27904970.87 27904971.01 27904971.14 0.1692 0.0663

Uranus 71689-02-17 04:34 G 27904977.64 27904977.69 27904977.75 0.0135 0.0126

Neptune 71689-03-21 23:17 G 27905010.45 27905010.47 27905010.50 0.0088 0.0086

Uranus 71689-05-16 08:53 G 27905065.78 27905065.87 27905065.97 0.0135 0.0105

Neptune 71689-06-18 01:12 G 27905098.49 27905098.55 27905098.64 0.0088 0.0078

Uranus 71689-08-12 13:27 G 27905153.94 27905154.06 27905154.18 0.0135 0.0084

Neptune 71689-09-14 03:22 G 27905186.56 27905186.64 27905186.75 0.0088 0.0070

Uranus 71689-11-08 17:46 G 27905242.11 27905242.24 27905242.38 0.0135 0.0063

Neptune 71689-12-11 05:46 G 27905274.63 27905274.74 27905274.86 0.0088 0.0061

Uranus 71690-02-04 22:05 G 27905330.28 27905330.42 27905330.57 0.0135 0.0043

Mars 71690-03-03 23:46 G 27905357.43 27905357.49 27905357.55 0.1845 0.1596

Neptune 71690-03-09 07:55 G 27905362.71 27905362.83 27905362.97 0.0088 0.0053

Uranus 71690-05-04 02:24 G 27905418.45 27905418.60 27905418.75 0.0135 0.0022

Neptune 71690-06-05 10:19 G 27905450.79 27905450.93 27905451.07 0.0088 0.0044

Uranus 71690-07-31 06:43 G 27905506.63 27905506.78 27905506.93 0.0135 0.0003

Neptune 71690-09-01 12:29 G 27905538.88 27905539.02 27905539.17 0.0088 0.0036

Uranus 71690-10-27 10:48 G 27905594.80 27905594.95 27905595.10 0.0135 0.0019

Neptune 71690-11-28 14:53 G 27905626.96 27905627.12 27905627.27 0.0088 0.0027

Uranus 71691-01-23 15:07 G 27905682.98 27905683.13 27905683.27 0.0135 0.0039

Venus 71691-02-23 15:07 G 27905714.03 27905714.13 27905714.22 0.3672 0.2293

Neptune 71691-02-24 17:03 G 27905715.05 27905715.21 27905715.37 0.0088 0.0018

Uranus 71691-04-21 19:12 G 27905771.17 27905771.30 27905771.44 0.0135 0.0059

Neptune 71691-05-23 19:27 G 27905803.14 27905803.31 27905803.47 0.0088 0.0010

Uranus 71691-07-18 23:17 G 27905859.36 27905859.47 27905859.60 0.0135 0.0080

Neptune 71691-08-19 21:36 G 27905891.24 27905891.40 27905891.56 0.0088 0.0001

Uranus 71691-10-15 03:22 G 27905947.55 27905947.64 27905947.75 0.0135 0.0100

Neptune 71691-11-15 23:46 G 27905979.33 27905979.49 27905979.66 0.0088 0.0008

Uranus 71692-01-11 07:27 G 27906035.75 27906035.81 27906035.89 0.0135 0.0119

Neptune 71692-02-12 02:10 G 27906067.43 27906067.59 27906067.75 0.0088 0.0016

Neptune 71692-05-10 04:34 G 27906155.53 27906155.69 27906155.85 0.0088 0.0025

Neptune 71692-08-06 06:43 G 27906243.63 27906243.78 27906243.94 0.0088 0.0034

Neptune 71692-11-02 08:53 G 27906331.74 27906331.87 27906332.03 0.0088 0.0043

Jupiter 71692-12-26 16:48 G 27906386.06 27906386.20 27906386.34 0.0544 0.0177

Neptune 71693-01-29 11:17 G 27906419.85 27906419.97 27906420.11 0.0088 0.0052

Neptune 71693-04-27 13:55 G 27906507.96 27906508.08 27906508.20 0.0088 0.0060

Neptune 71693-07-24 16:05 G 27906596.08 27906596.17 27906596.28 0.0088 0.0069

Neptune 71693-10-20 18:29 G 27906684.20 27906684.27 27906684.35 0.0088 0.0078

Neptune 71694-01-16 20:53 G 27906772.36 27906772.37 27906772.39 0.0088 0.0087

Moon 71694-09-05 04:48 G 27907003.65 27907003.70 27907003.74 0.2690 0.2476

Earth 71694-09-05 04:48 G 27907003.66 27907003.70 27907003.73 0.2697 0.2561 *

Venus 71696-09-08 12:00 G 27907737.89 27907738.00 27907738.11 0.3673 0.1726

Moon 71697-03-05 00:43 G 27907915.40 27907915.53 27907915.66 0.2629 0.0849

Earth 71697-03-05 01:27 G 27907915.44 27907915.56 27907915.69 0.2634 0.1018 *

Mars 71698-07-03 16:19 G 27908401.13 27908401.18 27908401.22 0.1698 0.1606

Jupiter 71698-08-12 09:51 G 27908440.81 27908440.91 27908441.03 0.0485 0.0340

Jupiter 71698-11-09 23:17 G 27908530.35 27908530.47 27908530.59 0.0484 0.0316

Mars 71699-07-25 06:00 G 27908787.63 27908787.75 27908787.87 0.1839 0.0599

Saturn 71700-03-16 14:24 G 27909021.99 27909022.10 27909022.21 0.0278 0.0201

Saturn 71700-06-13 06:00 G 27909110.60 27909110.75 27909110.91 0.0278 0.0056

Saturn 71700-09-09 21:22 G 27909199.25 27909199.39 27909199.54 0.0278 0.0088

Saturn 71700-12-07 12:29 G 27909287.94 27909288.02 27909288.11 0.0277 0.0226

Earth 71701-08-29 18:58 G 27909553.18 27909553.29 27909553.40 0.2700 0.1279

Moon 71701-08-29 19:55 G 27909553.21 27909553.33 27909553.44 0.2704 0.1157 *

Jupiter 71704-10-15 17:46 G 27910696.09 27910696.24 27910696.39 0.0544 0.0043

Mars 71708-12-15 12:43 G 27912217.91 27912218.03 27912218.15 0.1833 0.0356

Mars 71709-10-31 03:07 G 27912537.53 27912537.63 27912537.73 0.1682 0.1219

Moon 71710-03-09 00:00 G 27912666.47 27912666.50 27912666.53 0.2634 0.2549

Earth 71710-03-09 01:12 G 27912666.53 27912666.55 27912666.57 0.2635 0.2585 *

Jupiter 71710-08-30 01:27 G 27912840.41 27912840.56 27912840.71 0.0484 0.0151

Earth 71714-09-01 16:19 G 27914304.05 27914304.18 27914304.30 0.2699 0.0137

Moon 71714-09-01 17:17 G 27914304.10 27914304.22 27914304.34 0.2698 0.0234 *

Saturn 71715-03-25 04:19 G 27914508.59 27914508.68 27914508.78 0.0281 0.0214

Saturn 71715-06-21 19:27 G 27914597.17 27914597.31 27914597.46 0.0281 0.0072

Saturn 71715-09-18 10:48 G 27914685.81 27914685.95 27914686.10 0.0281 0.0075

Saturn 71715-12-16 02:39 G 27914774.52 27914774.61 27914774.71 0.0281 0.0225

Jupiter 71716-08-03 18:58 G 27915006.16 27915006.29 27915006.42 0.0544 0.0255

Earth 71717-03-01 08:53 G 27915215.77 27915215.87 27915215.97 0.2632 0.1670

Moon 71717-03-01 09:36 G 27915215.79 27915215.90 27915216.00 0.2626 0.1609 *

Mars 71718-05-07 19:41 G 27915648.23 27915648.32 27915648.41 0.1826 0.1273

Mars 71719-03-23 08:10 G 27915967.69 27915967.84 27915967.98 0.1687 0.0366

Jupiter 71722-06-18 03:51 G 27917150.50 27917150.66 27917150.81 0.0485 0.0012

Earth 71727-09-04 13:12 G 27919054.95 27919055.05 27919055.15 0.2698 0.1494

Moon 71727-09-04 13:41 G 27919054.97 27919055.07 27919055.17 0.2693 0.1508 *

Jupiter 71728-05-22 20:24 G 27919316.27 27919316.35 27919316.42 0.0543 0.0465

Mars 71728-08-12 12:29 G 27919397.88 27919398.02 27919398.16 0.1692 0.0541

Jupiter 71728-08-20 15:22 G 27919406.05 27919406.14 27919406.22 0.0544 0.0424

Saturn 71729-08-03 13:27 G 27919754.01 27919754.06 27919754.12 0.0278 0.0259

Venus 71729-08-06 02:24 G 27919756.51 27919756.60 27919756.69 0.3699 0.2313

Mars 71729-09-02 23:46 G 27919784.44 27919784.49 27919784.54 0.1845 0.1691

Saturn 71729-10-31 05:31 G 27919842.59 27919842.73 27919842.87 0.0278 0.0112

Saturn 71730-01-27 21:07 G 27919931.22 27919931.38 27919931.53 0.0278 0.0033

Uranus 71730-03-02 16:19 G 27919965.10 27919965.18 27919965.27 0.0143 0.0120

Moon 71730-03-04 07:41 G 27919966.68 27919966.82 27919966.95 0.2627 0.0258

Earth 71730-03-04 07:41 G 27919966.69 27919966.82 27919966.96 0.2633 0.0227 *

Saturn 71730-04-26 12:15 G 27920019.89 27920020.01 27920020.13 0.0277 0.0173

Uranus 71730-05-29 21:36 G 27920053.29 27920053.40 27920053.53 0.0143 0.0096

Uranus 71730-08-26 03:22 G 27920141.50 27920141.64 27920141.78 0.0143 0.0070

Uranus 71730-11-22 08:53 G 27920229.72 27920229.87 27920230.03 0.0143 0.0044

Uranus 71731-02-18 14:39 G 27920317.95 27920318.11 27920318.27 0.0143 0.0018

Uranus 71731-05-17 20:24 G 27920406.19 27920406.35 27920406.51 0.0143 0.0008

Uranus 71731-08-14 02:10 G 27920494.43 27920494.59 27920494.75 0.0143 0.0034

Uranus 71731-11-10 07:41 G 27920582.68 27920582.82 27920582.98 0.0143 0.0061

Uranus 71732-02-06 13:41 G 27920670.94 27920671.07 27920671.20 0.0143 0.0087

Uranus 71732-05-04 19:27 G 27920759.22 27920759.31 27920759.41 0.0143 0.0114

Uranus 71732-08-01 01:12 G 27920847.54 27920847.55 27920847.59 0.0143 0.0141

Jupiter 71734-04-06 05:46 G 27921460.60 27921460.74 27921460.89 0.0485 0.0176

Earth 71734-08-28 02:53 G 27921604.57 27921604.62 27921604.67 0.2701 0.2450

Moon 71734-08-28 03:07 G 27921604.58 27921604.63 27921604.69 0.2708 0.2343 *

Venus 71735-02-19 22:05 G 27921780.31 27921780.42 27921780.53 0.3698 0.1379

Mars 71738-01-02 16:48 G 27922828.13 27922828.20 27922828.27 0.1698 0.1467

Mars 71739-01-24 06:15 G 27923214.64 27923214.76 27923214.88 0.1839 0.0716

Jupiter 71740-06-08 16:19 G 27923716.05 27923716.18 27923716.32 0.0544 0.0208

Pluto 71742-09-10 04:34 G 27924539.62 27924539.69 27924539.77 0.0080 0.0069

Pluto 71742-12-07 06:15 G 27924627.64 27924627.76 27924627.89 0.0080 0.0048

Pluto 71743-03-05 08:10 G 27924715.69 27924715.84 27924715.99 0.0080 0.0027

Moon 71743-03-07 06:15 G 27924717.64 27924717.76 27924717.88 0.2629 0.1296

Earth 71743-03-07 06:58 G 27924717.68 27924717.79 27924717.91 0.2634 0.1310 *

Pluto 71743-06-01 09:51 G 27924803.75 27924803.91 27924804.08 0.0080 0.0006

Pluto 71743-08-28 11:31 G 27924891.83 27924891.98 27924892.15 0.0079 0.0016

Pluto 71743-11-24 13:12 G 27924979.92 27924980.05 27924980.20 0.0079 0.0037

Pluto 71744-02-20 14:53 G 27925068.02 27925068.12 27925068.24 0.0079 0.0057

Pluto 71744-05-18 16:34 G 27925156.18 27925156.19 27925156.23 0.0079 0.0078

Saturn 71744-08-11 05:17 G 27925240.67 27925240.72 27925240.78 0.0281 0.0258

Saturn 71744-11-07 20:10 G 27925329.21 27925329.34 27925329.48 0.0281 0.0117

Saturn 71745-02-04 11:31 G 27925417.83 27925417.98 27925418.14 0.0281 0.0030

Saturn 71745-05-04 03:22 G 27925506.52 27925506.64 27925506.76 0.0281 0.0177

Jupiter 71746-01-23 08:24 G 27925770.74 27925770.85 27925770.96 0.0485 0.0332

Jupiter 71746-04-22 21:36 G 27925860.29 27925860.40 27925860.52 0.0484 0.0323

Earth 71747-08-31 00:15 G 27926355.40 27926355.51 27926355.63 0.2700 0.1011

Moon 71747-08-31 01:12 G 27926355.44 27926355.55 27926355.67 0.2702 0.0980 *

Venus 71747-10-01 13:55 G 27926386.96 27926387.08 27926387.20 0.3673 0.0853

Mars 71748-06-15 12:43 G 27926644.91 27926645.03 27926645.16 0.1833 0.0248

Mars 71749-05-01 03:22 G 27926964.56 27926964.64 27926964.73 0.1682 0.1342

Jupiter 71752-03-27 16:19 G 27928026.03 27928026.18 27928026.32 0.0543 0.0038

Venus 71753-04-16 10:48 G 27928410.89 27928410.95 27928411.01 0.3674 0.3223

Mars 71757-11-05 19:41 G 27930075.23 27930075.32 27930075.42 0.1826 0.1165

Jupiter 71757-11-11 11:17 G 27930080.97 27930080.97 27930080.98 0.0486 0.0484

Jupiter 71758-02-09 00:15 G 27930170.36 27930170.51 27930170.65 0.0485 0.0164

Mars 71758-09-21 08:24 G 27930394.71 27930394.85 27930394.99 0.1687 0.0480

Saturn 71759-03-20 08:10 G 27930574.70 27930574.84 27930574.97 0.0278 0.0138

Saturn 71759-06-16 23:46 G 27930663.33 27930663.49 27930663.64 0.0278 0.0007

Saturn 71759-09-13 14:53 G 27930752.00 27930752.12 27930752.25 0.0278 0.0148

Earth 71760-09-01 21:36 G 27931106.28 27931106.40 27931106.52 0.2699 0.0396

Moon 71760-09-01 22:34 G 27931106.31 27931106.44 27931106.56 0.2698 0.0514 *

Earth 71763-03-02 14:24 G 27932017.99 27932018.10 27932018.21 0.2632 0.1397

Moon 71763-03-02 14:53 G 27932018.01 27932018.12 27932018.24 0.2627 0.1315 *

Jupiter 71764-01-14 17:03 G 27932336.08 27932336.21 27932336.34 0.0543 0.0258

Mars 71768-02-11 12:58 G 27933824.90 27933825.04 27933825.19 0.1693 0.0411

Mars 71769-03-04 00:00 G 27934211.48 27934211.50 27934211.52 0.1845 0.1814

Jupiter 71769-11-28 02:24 G 27934480.45 27934480.60 27934480.76 0.0485 0.0005

Neptune 71771-01-08 21:51 G 27934887.37 27934887.41 27934887.47 0.0090 0.0085

Neptune 71771-04-07 00:00 G 27934975.42 27934975.50 27934975.59 0.0090 0.0076

Neptune 71771-07-04 02:10 G 27935063.49 27935063.59 27935063.69 0.0090 0.0067

Neptune 71771-09-30 04:19 G 27935151.56 27935151.68 27935151.79 0.0090 0.0058

Neptune 71771-12-27 06:00 G 27935239.64 27935239.75 27935239.89 0.0090 0.0050

Neptune 71772-03-24 08:10 G 27935327.71 27935327.84 27935327.99 0.0090 0.0041

Neptune 71772-06-20 10:19 G 27935415.79 27935415.93 27935416.08 0.0090 0.0032

Neptune 71772-09-16 12:15 G 27935503.87 27935504.01 27935504.17 0.0090 0.0024

Neptune 71772-12-13 14:24 G 27935591.95 27935592.10 27935592.25 0.0090 0.0015

Uranus 71773-03-10 12:15 G 27935678.94 27935679.01 27935679.09 0.0135 0.0117

Neptune 71773-03-11 16:34 G 27935680.04 27935680.19 27935680.34 0.0090 0.0006

Uranus 71773-06-06 16:34 G 27935767.10 27935767.19 27935767.31 0.0135 0.0096

Neptune 71773-06-07 18:29 G 27935768.12 27935768.27 27935768.42 0.0090 0.0003

Uranus 71773-09-02 21:07 G 27935855.26 27935855.38 27935855.51 0.0135 0.0075

Neptune 71773-09-03 20:24 G 27935856.20 27935856.35 27935856.50 0.0090 0.0012

Earth 71773-09-04 18:29 G 27935857.18 27935857.27 27935857.36 0.2698 0.1744

Moon 71773-09-04 18:43 G 27935857.19 27935857.28 27935857.38 0.2692 0.1788 *

Uranus 71773-11-30 01:27 G 27935943.43 27935943.56 27935943.71 0.0135 0.0054

Neptune 71773-11-30 22:34 G 27935944.29 27935944.44 27935944.58 0.0090 0.0020

Uranus 71774-02-26 05:46 G 27936031.60 27936031.74 27936031.89 0.0135 0.0034

Neptune 71774-02-27 00:15 G 27936032.38 27936032.51 27936032.66 0.0090 0.0029

Saturn 71774-03-27 21:07 G 27936061.26 27936061.38 27936061.50 0.0281 0.0160

Uranus 71774-05-25 10:19 G 27936119.77 27936119.93 27936120.08 0.0135 0.0013

Neptune 71774-05-26 02:24 G 27936120.46 27936120.60 27936120.74 0.0090 0.0037

Saturn 71774-06-24 12:15 G 27936149.86 27936150.01 27936150.16 0.0281 0.0017

Uranus 71774-08-21 14:24 G 27936207.95 27936208.10 27936208.25 0.0135 0.0008

Neptune 71774-08-22 04:05 G 27936208.55 27936208.67 27936208.81 0.0090 0.0046

Saturn 71774-09-21 03:36 G 27936238.52 27936238.65 27936238.79 0.0281 0.0132

Uranus 71774-11-17 18:43 G 27936296.13 27936296.28 27936296.43 0.0135 0.0028

Neptune 71774-11-18 06:15 G 27936296.64 27936296.76 27936296.88 0.0090 0.0054

Uranus 71775-02-13 22:48 G 27936384.31 27936384.45 27936384.59 0.0135 0.0048

Neptune 71775-02-14 07:55 G 27936384.74 27936384.83 27936384.95 0.0090 0.0063

Uranus 71775-05-13 03:07 G 27936472.50 27936472.63 27936472.76 0.0135 0.0068

Neptune 71775-05-13 09:51 G 27936472.83 27936472.91 27936473.01 0.0090 0.0071

Uranus 71775-08-09 07:12 G 27936560.69 27936560.80 27936560.91 0.0135 0.0089

Neptune 71775-08-09 12:00 G 27936560.93 27936561.00 27936561.07 0.0090 0.0079

Jupiter 71775-11-02 18:00 G 27936646.18 27936646.25 27936646.33 0.0543 0.0474

Uranus 71775-11-05 11:17 G 27936648.89 27936648.97 27936649.06 0.0135 0.0108

Neptune 71775-11-05 13:55 G 27936649.05 27936649.08 27936649.11 0.0089 0.0087 *

Jupiter 71776-01-31 12:58 G 27936735.95 27936736.04 27936736.14 0.0544 0.0418

Uranus 71776-02-01 15:07 G 27936737.10 27936737.13 27936737.19 0.0135 0.0129

Moon 71776-03-04 12:58 G 27936768.90 27936769.04 27936769.18 0.2627 0.0044

Earth 71776-03-04 13:27 G 27936768.92 27936769.06 27936769.19 0.2633 0.0104 *

Mars 71777-07-03 17:17 G 27937255.13 27937255.22 27937255.31 0.1698 0.1329

Mars 71778-07-25 06:15 G 27937641.64 27937641.76 27937641.87 0.1839 0.0816

Earth 71780-08-28 08:10 G 27938406.77 27938406.84 27938406.92 0.2701 0.2175

Moon 71780-08-28 08:39 G 27938406.79 27938406.86 27938406.93 0.2707 0.2214 *

Jupiter 71781-09-16 05:03 G 27938790.56 27938790.71 27938790.85 0.0485 0.0158

Venus 71786-03-13 00:58 G 27940429.42 27940429.54 27940429.65 0.3699 0.0928

Jupiter 71787-11-19 14:53 G 27941045.99 27941046.12 27941046.25 0.0544 0.0215

Mars 71787-12-15 12:43 G 27941071.91 27941072.03 27941072.16 0.1833 0.0148

Saturn 71788-08-06 06:58 G 27941306.69 27941306.79 27941306.91 0.0278 0.0197

Mars 71788-10-30 03:51 G 27941391.59 27941391.66 27941391.73 0.1682 0.1464

Saturn 71788-11-02 23:03 G 27941395.31 27941395.46 27941395.61 0.0278 0.0051

Saturn 71789-01-30 14:24 G 27941483.96 27941484.10 27941484.25 0.0277 0.0092

Moon 71789-03-07 11:46 G 27941519.88 27941519.99 27941520.11 0.2630 0.1450

Earth 71789-03-07 12:43 G 27941519.92 27941520.03 27941520.14 0.2634 0.1606 *

Saturn 71789-04-29 05:31 G 27941572.65 27941572.73 27941572.81 0.0277 0.0231

Venus 71791-09-26 20:24 G 27942453.28 27942453.35 27942453.43 0.3697 0.2714

Jupiter 71793-07-05 07:12 G 27943100.68 27943100.80 27943100.91 0.0485 0.0321

Earth 71793-08-31 05:46 G 27943157.62 27943157.74 27943157.85 0.2700 0.0748

Moon 71793-08-31 06:43 G 27943157.65 27943157.78 27943157.90 0.2701 0.0566 *

Jupiter 71793-10-02 20:24 G 27943190.23 27943190.35 27943190.46 0.0484 0.0334

Earth 71796-02-28 21:07 G 27944069.35 27944069.38 27944069.41 0.2632 0.2549

Moon 71796-02-28 22:05 G 27944069.36 27944069.42 27944069.47 0.2628 0.2375 *

Mars 71797-05-06 19:55 G 27944502.23 27944502.33 27944502.43 0.1826 0.1046

Mars 71798-03-22 08:53 G 27944821.73 27944821.87 27944822.00 0.1687 0.0606

Venus 71798-10-22 15:51 G 27945036.11 27945036.16 27945036.21 0.3672 0.3330

Jupiter 71799-09-07 15:51 G 27945356.02 27945356.16 27945356.31 0.0544 0.0017

Saturn 71803-08-15 21:22 G 27946793.29 27946793.39 27946793.49 0.0281 0.0209

Saturn 71803-11-12 12:29 G 27946881.87 27946882.02 27946882.17 0.0281 0.0066

Saturn 71804-02-09 03:51 G 27946970.52 27946970.66 27946970.81 0.0281 0.0080

Saturn 71804-05-07 19:41 G 27947059.23 27947059.32 27947059.41 0.0281 0.0230

Venus 71804-05-08 12:29 G 27947059.90 27947060.02 27947060.15 0.3673 0.0627

Jupiter 71805-04-24 09:51 G 27947410.88 27947410.91 27947410.94 0.0486 0.0475

Jupiter 71805-07-22 22:34 G 27947500.30 27947500.44 27947500.59 0.0485 0.0174

Earth 71806-09-04 02:53 G 27947908.50 27947908.62 27947908.74 0.2699 0.0657

Moon 71806-09-04 03:36 G 27947908.53 27947908.65 27947908.77 0.2697 0.0700 *

Mars 71807-08-13 13:27 G 27948251.91 27948252.06 27948252.21 0.1693 0.0281

Earth 71809-03-03 19:55 G 27948820.21 27948820.33 27948820.45 0.2632 0.1118

Moon 71809-03-03 20:24 G 27948820.23 27948820.35 27948820.47 0.2627 0.1110 *

Jupiter 71811-06-27 15:36 G 27949666.02 27949666.15 27949666.28 0.0543 0.0246

Uranus 71813-12-25 18:00 G 27950578.22 27950578.25 27950578.30 0.0143 0.0138

Uranus 71814-03-23 23:31 G 27950666.39 27950666.48 27950666.58 0.0143 0.0113

Uranus 71814-06-20 05:03 G 27950754.59 27950754.71 27950754.84 0.0143 0.0087

Uranus 71814-09-16 10:48 G 27950842.80 27950842.95 27950843.09 0.0143 0.0062

Uranus 71814-12-13 16:19 G 27950931.02 27950931.18 27950931.34 0.0143 0.0036

Uranus 71815-03-11 21:51 G 27951019.25 27951019.41 27951019.58 0.0143 0.0011

Uranus 71815-06-08 03:36 G 27951107.49 27951107.65 27951107.81 0.0143 0.0016

Uranus 71815-09-04 09:22 G 27951195.74 27951195.89 27951196.05 0.0143 0.0042

Uranus 71815-12-01 15:07 G 27951283.99 27951284.13 27951284.27 0.0143 0.0069

Uranus 71816-02-27 20:39 G 27951372.25 27951372.36 27951372.50 0.0143 0.0096

Uranus 71816-05-26 02:53 G 27951460.54 27951460.62 27951460.70 0.0143 0.0122

Mars 71817-01-02 17:31 G 27951682.13 27951682.23 27951682.34 0.1698 0.1209

Jupiter 71817-05-11 01:12 G 27951810.40 27951810.55 27951810.71 0.0485 0.0017

Saturn 71817-12-25 09:22 G 27952038.81 27952038.89 27952038.99 0.0279 0.0226

Mars 71818-01-24 06:15 G 27952068.65 27952068.76 27952068.87 0.1839 0.0929

Saturn 71818-03-24 01:27 G 27952127.41 27952127.56 27952127.71 0.0278 0.0079

Saturn 71818-06-20 16:48 G 27952216.05 27952216.20 27952216.36 0.0278 0.0065

Saturn 71818-09-17 07:55 G 27952304.73 27952304.83 27952304.94 0.0278 0.0205

Earth 71819-09-06 23:46 G 27952659.41 27952659.49 27952659.57 0.2698 0.1999

Moon 71819-09-07 00:00 G 27952659.42 27952659.50 27952659.58 0.2691 0.2034 *

Moon 71822-03-06 18:29 G 27953571.13 27953571.27 27953571.40 0.2627 0.0327

Earth 71822-03-06 18:58 G 27953571.16 27953571.29 27953571.42 0.2633 0.0365 *

Jupiter 71823-04-15 16:05 G 27953976.11 27953976.17 27953976.25 0.0543 0.0473

Jupiter 71823-07-14 11:17 G 27954065.88 27954065.97 27954066.06 0.0544 0.0417

Earth 71826-08-30 13:41 G 27955208.98 27955209.07 27955209.15 0.2701 0.1904

Moon 71826-08-30 14:10 G 27955209.00 27955209.09 27955209.18 0.2706 0.1779 *

Mars 71827-06-16 12:58 G 27955498.91 27955499.04 27955499.16 0.1833 0.0034

Mars 71828-05-01 04:05 G 27955818.63 27955818.67 27955818.72 0.1682 0.1576

Jupiter 71829-02-27 03:36 G 27956120.51 27956120.65 27956120.80 0.0485 0.0146

Saturn 71833-01-01 22:19 G 27957525.37 27957525.43 27957525.50 0.0280 0.0250

Saturn 71833-03-31 13:27 G 27957613.92 27957614.06 27957614.20 0.0281 0.0109

Saturn 71833-06-28 04:34 G 27957702.54 27957702.69 27957702.85 0.0281 0.0037

Saturn 71833-09-24 20:24 G 27957791.23 27957791.35 27957791.46 0.0281 0.0184

Moon 71835-03-09 17:17 G 27958322.13 27958322.22 27958322.32 0.2632 0.1825

Earth 71835-03-09 18:29 G 27958322.17 27958322.27 27958322.36 0.2634 0.1900 *

Jupiter 71835-05-02 12:43 G 27958375.90 27958376.03 27958376.17 0.0544 0.0210

Mars 71836-11-05 19:41 G 27958929.22 27958929.32 27958929.43 0.1826 0.0954

Venus 71837-04-04 03:36 G 27959078.60 27959078.65 27959078.70 0.3700 0.3316

Mars 71837-09-21 09:22 G 27959248.76 27959248.89 27959249.02 0.1687 0.0736

Earth 71839-09-02 11:03 G 27959959.83 27959959.96 27959960.08 0.2700 0.0478

Moon 71839-09-02 12:00 G 27959959.88 27959960.00 27959960.12 0.2701 0.0453 *

Jupiter 71840-12-16 06:15 G 27960430.65 27960430.76 27960430.88 0.0485 0.0302

Jupiter 71841-03-15 19:27 G 27960520.21 27960520.31 27960520.42 0.0484 0.0353

Earth 71842-03-02 02:39 G 27960871.55 27960871.61 27960871.67 0.2632 0.2275

Moon 71842-03-02 03:36 G 27960871.58 27960871.65 27960871.71 0.2627 0.2267 *

Venus 71842-10-18 23:17 G 27961102.36 27961102.47 27961102.59 0.3698 0.0457

Mars 71847-02-11 13:55 G 27962678.93 27962679.08 27962679.22 0.1692 0.0158

Jupiter 71847-02-18 14:24 G 27962685.95 27962686.10 27962686.25 0.0544 0.0006

Saturn 71847-08-11 00:29 G 27962859.39 27962859.52 27962859.66 0.0278 0.0137

Saturn 71847-11-07 16:19 G 27962948.02 27962948.18 27962948.33 0.0278 0.0010

Saturn 71848-02-04 07:27 G 27963036.68 27963036.81 27963036.94 0.0277 0.0149

Earth 71852-09-04 08:10 G 27964710.72 27964710.84 27964710.95 0.2699 0.0915

Moon 71852-09-04 08:53 G 27964710.75 27964710.87 27964710.98 0.2695 0.1054 *

Jupiter 71852-10-04 08:39 G 27964740.82 27964740.86 27964740.91 0.0486 0.0462

Jupiter 71853-01-01 21:22 G 27964830.25 27964830.39 27964830.54 0.0484 0.0186

Neptune 71853-12-18 21:36 G 27965181.36 27965181.40 27965181.46 0.0088 0.0083

Neptune 71854-03-16 23:46 G 27965269.42 27965269.49 27965269.59 0.0088 0.0075

Neptune 71854-06-13 02:10 G 27965357.49 27965357.59 27965357.70 0.0088 0.0066

Neptune 71854-09-09 04:05 G 27965445.56 27965445.67 27965445.81 0.0088 0.0058

Neptune 71854-12-06 06:29 G 27965533.64 27965533.77 27965533.91 0.0088 0.0049

Neptune 71855-03-04 08:39 G 27965621.73 27965621.86 27965622.01 0.0088 0.0041

Earth 71855-03-05 01:27 G 27965622.43 27965622.56 27965622.68 0.2632 0.0845

Moon 71855-03-05 01:27 G 27965622.44 27965622.56 27965622.69 0.2626 0.0766 *

Venus 71855-05-30 14:24 G 27965709.00 27965709.10 27965709.21 0.3672 0.1925

Neptune 71855-05-31 11:03 G 27965709.81 27965709.96 27965710.11 0.0088 0.0032

Neptune 71855-08-27 13:12 G 27965797.90 27965798.05 27965798.21 0.0088 0.0024

Neptune 71855-11-23 15:36 G 27965885.99 27965886.15 27965886.31 0.0088 0.0015

Neptune 71856-02-19 17:46 G 27965974.08 27965974.24 27965974.40 0.0088 0.0006

Neptune 71856-05-17 20:10 G 27966062.17 27966062.34 27966062.50 0.0088 0.0003

Mars 71856-07-03 18:00 G 27966109.14 27966109.25 27966109.37 0.1698 0.1076

Neptune 71856-08-13 22:19 G 27966150.27 27966150.43 27966150.60 0.0088 0.0011

Neptune 71856-11-10 00:29 G 27966238.37 27966238.52 27966238.69 0.0088 0.0020

Uranus 71857-01-02 15:22 G 27966292.11 27966292.14 27966292.20 0.0135 0.0129

Neptune 71857-02-06 02:53 G 27966326.47 27966326.62 27966326.78 0.0088 0.0029

Uranus 71857-03-31 19:55 G 27966380.25 27966380.33 27966380.43 0.0135 0.0108

Neptune 71857-05-05 05:17 G 27966414.57 27966414.72 27966414.87 0.0088 0.0037

Uranus 71857-06-28 00:15 G 27966468.41 27966468.51 27966468.64 0.0135 0.0087

Mars 71857-07-25 06:29 G 27966495.66 27966495.77 27966495.87 0.1839 0.1046

Neptune 71857-08-01 07:27 G 27966502.68 27966502.81 27966502.96 0.0088 0.0046

Uranus 71857-09-24 04:48 G 27966556.57 27966556.70 27966556.84 0.0135 0.0066

Neptune 71857-10-28 09:51 G 27966590.79 27966590.91 27966591.04 0.0088 0.0055

Uranus 71857-12-21 09:07 G 27966644.74 27966644.88 27966645.03 0.0135 0.0045

Neptune 71858-01-24 12:00 G 27966678.90 27966679.00 27966679.13 0.0088 0.0064

Uranus 71858-03-19 13:41 G 27966732.92 27966733.07 27966733.22 0.0135 0.0024

Neptune 71858-04-22 14:24 G 27966767.02 27966767.10 27966767.20 0.0088 0.0073

Uranus 71858-06-15 18:00 G 27966821.10 27966821.25 27966821.40 0.0135 0.0004

Neptune 71858-07-19 16:34 G 27966855.15 27966855.19 27966855.27 0.0088 0.0082

Uranus 71858-09-11 22:19 G 27966909.28 27966909.43 27966909.58 0.0135 0.0017

Jupiter 71858-12-07 15:22 G 27966996.01 27966996.14 27966996.28 0.0543 0.0212

Uranus 71858-12-09 02:24 G 27966997.46 27966997.60 27966997.75 0.0135 0.0037

Uranus 71859-03-07 06:43 G 27967085.64 27967085.78 27967085.91 0.0135 0.0057

Uranus 71859-06-03 10:48 G 27967173.83 27967173.95 27967174.07 0.0135 0.0078

Uranus 71859-08-30 14:53 G 27967262.02 27967262.12 27967262.23 0.0135 0.0098

Uranus 71859-11-26 18:58 G 27967350.23 27967350.29 27967350.37 0.0135 0.0118

Venus 71860-12-13 11:17 G 27967732.87 27967732.97 27967733.07 0.3673 0.2050

Saturn 71862-08-18 13:12 G 27968345.93 27968346.05 27968346.18 0.0281 0.0162

Saturn 71862-11-15 04:19 G 27968434.53 27968434.68 27968434.84 0.0281 0.0020

Saturn 71863-02-11 19:55 G 27968523.20 27968523.33 27968523.47 0.0281 0.0129

Saturn 71863-05-11 11:46 G 27968611.98 27968611.99 27968612.01 0.0281 0.0280

Jupiter 71864-10-21 00:00 G 27969140.34 27969140.50 27969140.65 0.0485 0.0027

Earth 71865-09-07 04:48 G 27969461.64 27969461.70 27969461.77 0.2698 0.2253

Moon 71865-09-07 05:17 G 27969461.65 27969461.72 27969461.78 0.2691 0.2247 *

Mars 71866-12-15 12:58 G 27969925.91 27969926.04 27969926.17 0.1833 0.0082

Moon 71868-03-07 00:00 G 27970373.37 27970373.50 27970373.63 0.2627 0.0565

Earth 71868-03-07 00:29 G 27970373.39 27970373.52 27970373.65 0.2633 0.0648 *

Jupiter 71870-09-25 15:07 G 27971306.05 27971306.13 27971306.21 0.0542 0.0458

Jupiter 71870-12-24 10:05 G 27971395.83 27971395.92 27971396.01 0.0544 0.0431

Earth 71872-08-30 18:58 G 27972011.19 27972011.29 27972011.38 0.2700 0.1633

Moon 71872-08-30 19:41 G 27972011.22 27972011.32 27972011.42 0.2704 0.1596 *

Mars 71876-05-06 19:55 G 27973356.22 27973356.33 27973356.44 0.1826 0.0836

Jupiter 71876-08-09 02:39 G 27973450.46 27973450.61 27973450.76 0.0485 0.0131

Saturn 71876-12-28 02:39 G 27973591.49 27973591.61 27973591.73 0.0279 0.0168

Mars 71877-03-22 09:36 G 27973675.77 27973675.90 27973676.03 0.1687 0.0851

Saturn 71877-03-26 18:29 G 27973680.11 27973680.27 27973680.42 0.0278 0.0022

Saturn 71877-06-23 09:51 G 27973768.77 27973768.91 27973769.05 0.0278 0.0120

Saturn 71877-09-20 00:43 G 27973857.48 27973857.53 27973857.59 0.0278 0.0259

Moon 71881-03-09 22:48 G 27975124.37 27975124.45 27975124.54 0.2633 0.2082

Earth 71881-03-10 00:00 G 27975124.43 27975124.50 27975124.57 0.2634 0.2199 *

Jupiter 71882-10-12 11:03 G 27975705.83 27975705.96 27975706.09 0.0544 0.0213

Earth 71885-09-02 16:19 G 27976762.05 27976762.18 27976762.30 0.2700 0.0220

Moon 71885-09-02 17:17 G 27976762.09 27976762.22 27976762.34 0.2701 0.0095 *

Mars 71885-09-27 03:07 G 27976786.59 27976786.63 27976786.67 0.1820 0.1721

Mars 71886-08-12 14:10 G 27977105.94 27977106.09 27977106.24 0.1693 0.0044

Earth 71888-03-02 08:10 G 27977673.75 27977673.84 27977673.92 0.2632 0.2008

Moon 71888-03-02 08:53 G 27977673.78 27977673.87 27977673.97 0.2628 0.1839 *

Jupiter 71888-05-28 05:03 G 27977760.59 27977760.71 27977760.84 0.0485 0.0289

Jupiter 71888-08-25 18:15 G 27977850.16 27977850.26 27977850.36 0.0484 0.0367

Saturn 71892-01-05 14:39 G 27979078.01 27979078.11 27979078.22 0.0280 0.0200

Saturn 71892-04-03 05:46 G 27979166.59 27979166.74 27979166.89 0.0281 0.0059

Saturn 71892-06-30 20:53 G 27979255.23 27979255.37 27979255.52 0.0281 0.0088

Saturn 71892-09-27 12:43 G 27979343.95 27979344.03 27979344.11 0.0281 0.0237

Venus 71893-11-09 02:10 G 27979751.49 27979751.59 27979751.69 0.3699 0.1917

Jupiter 71894-07-31 12:15 G 27980015.87 27980016.01 27980016.16 0.0544 0.0015

Mars 71896-01-02 18:43 G 27980536.15 27980536.28 27980536.40 0.1698 0.0938

Mars 71897-01-23 06:15 G 27980922.67 27980922.76 27980922.86 0.1839 0.1147

Uranus 71898-01-15 01:41 G 27981279.51 27981279.57 27981279.64 0.0143 0.0129

Uranus 71898-04-13 07:12 G 27981367.69 27981367.80 27981367.91 0.0143 0.0103

Uranus 71898-07-10 12:29 G 27981455.90 27981456.02 27981456.17 0.0143 0.0079

Earth 71898-09-05 13:27 G 27981512.95 27981513.06 27981513.17 0.2699 0.1175

Moon 71898-09-05 13:55 G 27981512.97 27981513.08 27981513.19 0.2693 0.1163 *

Uranus 71898-10-06 18:15 G 27981544.11 27981544.26 27981544.41 0.0143 0.0052

Uranus 71899-01-03 00:00 G 27981632.34 27981632.50 27981632.66 0.0143 0.0027

Uranus 71899-04-01 05:31 G 27981720.57 27981720.73 27981720.89 0.0143 0.0002

Venus 71899-05-25 21:51 G 27981775.31 27981775.41 27981775.51 0.3698 0.1770

Uranus 71899-06-28 11:17 G 27981808.81 27981808.97 27981809.13 0.0143 0.0026

Uranus 71899-09-24 17:03 G 27981897.06 27981897.21 27981897.36 0.0143 0.0052

Pluto 71899-11-17 11:46 G 27981950.94 27981950.99 27981951.07 0.0064 0.0057

Uranus 71899-12-21 22:48 G 27981985.31 27981985.45 27981985.59 0.0143 0.0078

Pluto 71900-02-13 12:43 G 27982038.93 27982039.03 27982039.14 0.0064 0.0047

Jupiter 71900-03-17 07:41 G 27982070.77 27982070.82 27982070.89 0.0486 0.0444

Uranus 71900-03-20 04:34 G 27982073.58 27982073.69 27982073.80 0.0143 0.0105

Pluto 71900-05-12 13:27 G 27982126.94 27982127.06 27982127.20 0.0064 0.0036

Jupiter 71900-06-14 20:39 G 27982160.22 27982160.36 27982160.50 0.0484 0.0205

Uranus 71900-06-16 10:19 G 27982161.88 27982161.93 27982162.00 0.0143 0.0132

Pluto 71900-08-08 14:10 G 27982214.96 27982215.09 27982215.24 0.0065 0.0025

Pluto 71900-11-04 14:53 G 27982302.98 27982303.12 27982303.28 0.0065 0.0015

Pluto 71901-01-31 15:51 G 27982391.01 27982391.16 27982391.32 0.0065 0.0004

Moon 71901-03-06 06:58 G 27982424.66 27982424.79 27982424.92 0.2626 0.0640

Earth 71901-03-06 06:58 G 27982424.66 27982424.79 27982424.92 0.2633 0.0560 *

Pluto 71901-04-29 16:34 G 27982479.04 27982479.19 27982479.35 0.0065 0.0007

Pluto 71901-07-26 17:17 G 27982567.08 27982567.22 27982567.37 0.0065 0.0018

Pluto 71901-10-22 18:00 G 27982655.12 27982655.25 27982655.40 0.0065 0.0029

Pluto 71902-01-18 18:43 G 27982743.17 27982743.28 27982743.41 0.0065 0.0040

Pluto 71902-04-16 19:27 G 27982831.23 27982831.31 27982831.42 0.0065 0.0051

Pluto 71902-07-13 20:10 G 27982919.31 27982919.34 27982919.40 0.0065 0.0062

Saturn 71906-05-18 01:41 G 27984323.48 27984323.57 27984323.66 0.0278 0.0227

Jupiter 71906-05-20 13:55 G 27984325.94 27984326.08 27984326.21 0.0543 0.0206

Mars 71906-06-16 12:58 G 27984352.92 27984353.04 27984353.17 0.1833 0.0196

Saturn 71906-08-14 17:31 G 27984412.08 27984412.23 27984412.38 0.0278 0.0080

Saturn 71906-11-11 09:07 G 27984500.73 27984500.88 27984501.03 0.0278 0.0063

Saturn 71907-02-08 00:15 G 27984589.41 27984589.51 27984589.62 0.0277 0.0203

Earth 71911-09-09 10:05 G 27986263.88 27986263.92 27986263.96 0.2698 0.2501

Moon 71911-09-09 10:05 G 27986263.89 27986263.92 27986263.96 0.2691 0.2546 *

Venus 71912-01-05 13:12 G 27986381.93 27986382.05 27986382.17 0.3672 0.0506

Jupiter 71912-04-02 22:48 G 27986470.29 27986470.45 27986470.60 0.0485 0.0040

Moon 71914-03-09 05:31 G 27987175.60 27987175.73 27987175.85 0.2628 0.0923

Earth 71914-03-09 06:00 G 27987175.63 27987175.75 27987175.88 0.2633 0.0941 *

Mars 71915-11-06 19:55 G 27987783.22 27987783.33 27987783.45 0.1826 0.0728

Mars 71916-09-21 10:05 G 27988102.80 27988102.92 27988103.04 0.1687 0.0973

Venus 71917-07-21 10:05 G 27988405.90 27988405.92 27988405.95 0.3674 0.3553

Jupiter 71918-03-08 14:53 G 27988636.03 27988636.12 27988636.21 0.0543 0.0424

Jupiter 71918-06-06 09:36 G 27988725.83 27988725.90 27988725.98 0.0544 0.0466

Earth 71918-09-02 00:15 G 27988813.40 27988813.51 27988813.62 0.2700 0.1360

Moon 71918-09-02 00:58 G 27988813.43 27988813.54 27988813.65 0.2704 0.1241 *

Saturn 71921-05-25 14:10 G 27989810.04 27989810.09 27989810.16 0.0280 0.0255

Saturn 71921-08-22 05:03 G 27989898.58 27989898.71 27989898.86 0.0281 0.0115

Saturn 71921-11-18 20:24 G 27989987.20 27989987.35 27989987.51 0.0281 0.0031

Saturn 71922-02-15 12:00 G 27990075.88 27990076.00 27990076.12 0.0281 0.0178

Jupiter 71924-01-21 01:12 G 27990780.41 27990780.55 27990780.70 0.0485 0.0119

Mars 71925-03-29 03:07 G 27991213.58 27991213.63 27991213.69 0.1820 0.1612

Mars 71926-02-11 14:39 G 27991532.96 27991533.11 27991533.26 0.1693 0.0101

Moon 71927-03-12 04:19 G 27991926.62 27991926.68 27991926.74 0.2634 0.2349

Earth 71927-03-12 05:31 G 27991926.69 27991926.73 27991926.77 0.2634 0.2493 *

Jupiter 71930-03-25 09:51 G 27993035.78 27993035.91 27993036.05 0.0543 0.0229

Earth 71931-09-04 21:36 G 27993564.27 27993564.40 27993564.52 0.2699 0.0088

Moon 71931-09-04 22:19 G 27993564.31 27993564.43 27993564.56 0.2699 0.0137 *

Earth 71934-03-04 13:41 G 27994475.97 27994476.07 27994476.17 0.2632 0.1738

Moon 71934-03-04 14:24 G 27994476.00 27994476.10 27994476.20 0.2627 0.1735 *

Mars 71935-07-04 18:58 G 27994963.16 27994963.29 27994963.42 0.1698 0.0820

Saturn 71935-10-05 03:22 G 27995055.59 27995055.64 27995055.69 0.0279 0.0261

Neptune 71935-10-07 20:24 G 27995058.29 27995058.35 27995058.42 0.0090 0.0082

Jupiter 71935-11-09 03:51 G 27995090.54 27995090.66 27995090.79 0.0486 0.0276

Saturn 71936-01-01 19:27 G 27995144.17 27995144.31 27995144.45 0.0279 0.0113

Neptune 71936-01-03 22:34 G 27995146.35 27995146.44 27995146.53 0.0090 0.0073

Jupiter 71936-02-06 17:17 G 27995180.12 27995180.22 27995180.31 0.0485 0.0383

Saturn 71936-03-30 11:03 G 27995232.81 27995232.96 27995233.12 0.0278 0.0034

Neptune 71936-04-01 00:43 G 27995234.42 27995234.53 27995234.64 0.0090 0.0064

Saturn 71936-06-27 02:24 G 27995321.49 27995321.60 27995321.72 0.0278 0.0174

Neptune 71936-06-28 02:24 G 27995322.50 27995322.60 27995322.74 0.0090 0.0056

Mars 71936-07-25 06:29 G 27995349.68 27995349.77 27995349.86 0.1839 0.1259

Neptune 71936-09-24 04:34 G 27995410.57 27995410.69 27995410.83 0.0090 0.0047

Neptune 71936-12-21 06:43 G 27995498.65 27995498.78 27995498.93 0.0090 0.0038

Neptune 71937-03-19 08:53 G 27995586.73 27995586.87 27995587.02 0.0090 0.0029

Neptune 71937-06-15 10:48 G 27995674.81 27995674.95 27995675.11 0.0090 0.0021

Neptune 71937-09-11 12:58 G 27995762.89 27995763.04 27995763.20 0.0090 0.0012

Neptune 71937-12-08 15:07 G 27995850.98 27995851.13 27995851.28 0.0090 0.0003

Neptune 71938-03-06 17:03 G 27995939.06 27995939.21 27995939.36 0.0090 0.0006

Neptune 71938-06-02 18:58 G 27996027.14 27996027.29 27996027.45 0.0090 0.0015

Neptune 71938-08-29 21:07 G 27996115.23 27996115.38 27996115.53 0.0090 0.0023

Neptune 71938-11-25 22:48 G 27996203.32 27996203.45 27996203.60 0.0090 0.0032

Neptune 71939-02-22 00:58 G 27996291.41 27996291.54 27996291.68 0.0090 0.0040

Neptune 71939-05-21 02:39 G 27996379.50 27996379.61 27996379.75 0.0090 0.0049

Neptune 71939-08-17 04:48 G 27996467.59 27996467.70 27996467.82 0.0090 0.0057

Neptune 71939-11-13 06:58 G 27996555.68 27996555.79 27996555.89 0.0090 0.0065

Neptune 71940-02-09 08:24 G 27996643.78 27996643.85 27996643.95 0.0090 0.0074

Neptune 71940-05-07 10:34 G 27996731.89 27996731.94 27996732.00 0.0089 0.0082

Uranus 71941-01-23 23:17 G 27996993.41 27996993.47 27996993.55 0.0135 0.0119

Uranus 71941-04-22 03:51 G 27997081.56 27997081.66 27997081.77 0.0135 0.0098

Uranus 71941-07-19 08:10 G 27997169.72 27997169.84 27997169.98 0.0135 0.0077

Uranus 71941-10-15 12:43 G 27997257.89 27997258.03 27997258.17 0.0135 0.0056

Jupiter 71942-01-11 10:48 G 27997345.80 27997345.95 27997346.10 0.0543 0.0010

Uranus 71942-01-11 17:03 G 27997346.07 27997346.21 27997346.36 0.0135 0.0035 *

Uranus 71942-04-09 21:22 G 27997434.24 27997434.39 27997434.55 0.0135 0.0015

Uranus 71942-07-07 01:41 G 27997522.42 27997522.57 27997522.72 0.0135 0.0006

Uranus 71942-10-03 06:00 G 27997610.60 27997610.75 27997610.90 0.0135 0.0026

Uranus 71942-12-30 10:19 G 27997698.79 27997698.93 27997699.07 0.0135 0.0047

Uranus 71943-03-28 14:24 G 27997786.97 27997787.10 27997787.23 0.0135 0.0067

Uranus 71943-06-24 18:29 G 27997875.16 27997875.27 27997875.39 0.0135 0.0087

Uranus 71943-09-20 22:48 G 27997963.36 27997963.45 27997963.54 0.0135 0.0107

Uranus 71943-12-18 02:53 G 27998051.57 27998051.62 27998051.67 0.0135 0.0127

Earth 71944-09-06 18:29 G 27998315.17 27998315.27 27998315.38 0.2699 0.1428

Moon 71944-09-06 19:12 G 27998315.20 27998315.30 27998315.40 0.2693 0.1567 *

Mars 71945-12-15 12:58 G 27998779.92 27998780.04 27998780.17 0.1832 0.0303

Moon 71947-03-07 12:15 G 27999226.88 27999227.01 27999227.15 0.2626 0.0220

Earth 71947-03-07 12:29 G 27999226.89 27999227.02 27999227.15 0.2633 0.0288 *

Jupiter 71947-08-28 06:43 G 27999400.71 27999400.78 27999400.84 0.0486 0.0431

Jupiter 71947-11-25 19:27 G 27999490.17 27999490.31 27999490.45 0.0485 0.0218

Venus 71950-06-17 00:43 G 28000424.41 28000424.53 28000424.65 0.3699 0.0557

Saturn 71951-01-09 06:43 G 28000630.66 28000630.78 28000630.91 0.0280 0.0151

Saturn 71951-04-07 21:51 G 28000719.26 28000719.41 28000719.56 0.0281 0.0009

Saturn 71951-07-05 13:12 G 28000807.92 28000808.05 28000808.19 0.0281 0.0139

Earth 71951-08-31 07:55 G 28000864.79 28000864.83 28000864.87 0.2701 0.2544

Moon 71951-08-31 08:24 G 28000864.81 28000864.85 28000864.89 0.2707 0.2548 *

Jupiter 71953-10-30 11:46 G 28001655.85 28001655.99 28001656.13 0.0543 0.0210

Mars 71955-05-07 19:55 G 28002210.21 28002210.33 28002210.45 0.1826 0.0628

Venus 71955-12-31 20:24 G 28002448.28 28002448.35 28002448.41 0.3698 0.3103

Mars 71956-03-22 10:34 G 28002529.83 28002529.94 28002530.05 0.1687 0.1103

Moon 71957-09-09 15:07 G 28003066.12 28003066.13 28003066.15 0.2691 0.2660

Jupiter 71959-09-13 21:51 G 28003800.26 28003800.41 28003800.57 0.0485 0.0059

Moon 71960-03-09 10:48 G 28003977.83 28003977.95 28003978.08 0.2630 0.1070

Earth 71960-03-09 11:46 G 28003977.87 28003977.99 28003978.11 0.2634 0.1231 *

Venus 71963-01-26 15:22 G 28005031.07 28005031.14 28005031.21 0.3671 0.2964

Earth 71964-09-02 05:31 G 28005615.62 28005615.73 28005615.84 0.2700 0.1091

Moon 71964-09-02 06:29 G 28005615.65 28005615.77 28005615.88 0.2704 0.1021 *

Mars 71964-09-27 03:22 G 28005640.57 28005640.64 28005640.70 0.1820 0.1505

Saturn 71965-05-20 18:43 G 28005876.16 28005876.28 28005876.41 0.0278 0.0169

Mars 71965-08-12 15:07 G 28005959.98 28005960.13 28005960.27 0.1692 0.0222

Saturn 71965-08-17 10:48 G 28005964.79 28005964.95 28005965.10 0.0278 0.0024

Jupiter 71965-08-18 13:12 G 28005965.95 28005966.05 28005966.14 0.0543 0.0420

Saturn 71965-11-14 02:10 G 28006053.45 28006053.59 28006053.73 0.0278 0.0119

Jupiter 71965-11-16 08:10 G 28006055.77 28006055.84 28006055.91 0.0544 0.0470

Saturn 71966-02-10 17:03 G 28006142.16 28006142.21 28006142.27 0.0277 0.0258

Venus 71968-08-11 12:00 G 28007054.88 28007055.00 28007055.12 0.3672 0.0941

Jupiter 71971-07-03 00:00 G 28008110.35 28008110.50 28008110.65 0.0485 0.0106

Mars 71975-01-02 19:27 G 28009390.17 28009390.31 28009390.45 0.1698 0.0684

Mars 71976-01-24 06:43 G 28009776.69 28009776.78 28009776.86 0.1839 0.1377

Jupiter 71977-09-04 09:36 G 28010365.77 28010365.90 28010366.03 0.0544 0.0261

Earth 71977-09-05 02:53 G 28010366.49 28010366.62 28010366.74 0.2700 0.0325

Moon 71977-09-05 03:36 G 28010366.53 28010366.65 28010366.78 0.2697 0.0463 *

Earth 71980-03-04 18:58 G 28011278.18 28011278.29 28011278.40 0.2632 0.1469

Moon 71980-03-04 19:27 G 28011278.20 28011278.31 28011278.43 0.2626 0.1370 *

Saturn 71980-05-28 06:00 G 28011362.66 28011362.75 28011362.86 0.0280 0.0208

Saturn 71980-08-24 21:07 G 28011451.24 28011451.38 28011451.53 0.0281 0.0066

Saturn 71980-11-21 12:29 G 28011539.88 28011540.02 28011540.17 0.0281 0.0080

Saturn 71981-02-18 04:19 G 28011628.59 28011628.68 28011628.77 0.0281 0.0229

Uranus 71982-02-05 08:39 G 28011980.79 28011980.86 28011980.96 0.0143 0.0121

Uranus 71982-05-04 14:24 G 28012068.98 28012069.10 28012069.22 0.0143 0.0096

Uranus 71982-07-31 19:55 G 28012157.19 28012157.33 28012157.47 0.0143 0.0070

Uranus 71982-10-28 01:27 G 28012245.41 28012245.56 28012245.72 0.0143 0.0045

Uranus 71983-01-24 07:12 G 28012333.64 28012333.80 28012333.96 0.0143 0.0019

Jupiter 71983-04-21 02:53 G 28012420.49 28012420.62 28012420.74 0.0485 0.0262

Uranus 71983-04-22 12:43 G 28012421.87 28012422.03 28012422.19 0.0143 0.0007

Jupiter 71983-07-19 15:51 G 28012510.08 28012510.16 28012510.25 0.0484 0.0396

Uranus 71983-07-19 18:29 G 28012510.11 28012510.27 28012510.43 0.0143 0.0033 *

Uranus 71983-10-16 00:00 G 28012598.36 28012598.50 28012598.66 0.0143 0.0060

Uranus 71984-01-12 06:00 G 28012686.62 28012686.75 28012686.88 0.0143 0.0086

Uranus 71984-04-09 11:31 G 28012774.89 28012774.98 28012775.09 0.0143 0.0113

Mars 71984-05-24 23:17 G 28012820.43 28012820.47 28012820.51 0.1704 0.1632

Uranus 71984-07-06 17:17 G 28012863.20 28012863.22 28012863.27 0.0143 0.0140

Mars 71985-06-15 13:12 G 28013206.92 28013207.05 28013207.17 0.1832 0.0410

Pluto 71988-11-03 18:15 G 28014444.17 28014444.26 28014444.37 0.0080 0.0062

Pluto 71989-01-30 19:55 G 28014532.21 28014532.33 28014532.48 0.0080 0.0041

Pluto 71989-04-28 21:51 G 28014620.26 28014620.41 28014620.57 0.0080 0.0020

Jupiter 71989-06-23 09:36 G 28014675.76 28014675.90 28014676.05 0.0543 0.0030

Pluto 71989-07-25 23:46 G 28014708.33 28014708.49 28014708.65 0.0080 0.0002

Pluto 71989-10-22 01:27 G 28014796.41 28014796.56 28014796.72 0.0079 0.0023

Pluto 71990-01-18 03:07 G 28014884.50 28014884.63 28014884.77 0.0079 0.0044

Pluto 71990-04-16 04:48 G 28014972.61 28014972.70 28014972.80 0.0079 0.0064

Earth 71990-09-07 23:46 G 28015117.40 28015117.49 28015117.59 0.2699 0.1684

Moon 71990-09-08 00:15 G 28015117.42 28015117.51 28015117.61 0.2693 0.1665 *

Moon 71993-03-07 17:46 G 28016029.11 28016029.24 28016029.38 0.2626 0.0120

Earth 71993-03-07 18:00 G 28016029.12 28016029.25 28016029.38 0.2633 0.0009 *

Saturn 71994-10-07 20:10 G 28016608.24 28016608.34 28016608.45 0.0279 0.0206

Mars 71994-11-05 19:55 G 28016637.21 28016637.33 28016637.46 0.1826 0.0523

Saturn 71995-01-04 12:15 G 28016696.86 28016697.01 28016697.17 0.0279 0.0058

Jupiter 71995-02-07 05:17 G 28016730.65 28016730.72 28016730.80 0.0486 0.0419

Saturn 71995-04-03 03:51 G 28016785.52 28016785.66 28016785.81 0.0279 0.0086

Jupiter 71995-05-07 18:15 G 28016820.13 28016820.26 28016820.40 0.0485 0.0233

Saturn 71995-06-30 18:58 G 28016874.21 28016874.29 28016874.39 0.0278 0.0226

Mars 71995-09-21 10:48 G 28016956.85 28016956.95 28016957.05 0.1687 0.1214

Earth 71997-08-31 13:12 G 28017666.99 28017667.05 28017667.12 0.2701 0.2274

Moon 71997-08-31 13:55 G 28017667.00 28017667.08 28017667.15 0.2707 0.2161 *

73RD MILLENNIUM CE

This is a list of transits of Mercury in the 73rd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	72001-04-11 10:19	G	28018985.79	28018985.93	28018986.07	0.0543	0.0201	
Venus	72001-07-08 03:22	G	28019073.57	28019073.64	28019073.71	0.3700	0.2951	
Mars	72004-03-28 03:22	G	28020067.56	28020067.64	28020067.71	0.1820	0.1400	
Mars	72005-02-10 15:36	G	28020387.00	28020387.15	28020387.29	0.1693	0.0350	
Moon	72006-03-10 16:19	G	28020780.07	28020780.18	28020780.29	0.2631	0.1496	
Earth	72006-03-10 17:17	G	28020780.11	28020780.22	28020780.33	0.2634	0.1514	*
Venus	72007-01-21 23:17	G	28021097.35	28021097.47	28021097.58	0.3699	0.0825	
Jupiter	72007-02-23 20:39	G	28021130.20	28021130.36	28021130.51	0.0485	0.0071	
Saturn	72009-10-15 08:10	G	28022094.77	28022094.84	28022094.93	0.0280	0.0239	
Saturn	72010-01-11 23:17	G	28022183.33	28022183.47	28022183.61	0.0280	0.0099	
Saturn	72010-04-10 14:24	G	28022271.95	28022272.10	28022272.25	0.0280	0.0045	
Saturn	72010-07-08 05:46	G	28022360.64	28022360.74	28022360.86	0.0281	0.0193	
Earth	72010-09-03 10:48	G	28022417.83	28022417.95	28022418.07	0.2700	0.0821	
Moon	72010-09-03 11:46	G	28022417.87	28022417.99	28022418.11	0.2703	0.0737	*
Jupiter	72013-01-28 11:03	G	28023295.87	28023295.96	28023296.05	0.0543	0.0424	
Earth	72013-03-03 01:55	G	28023329.57	28023329.58	28023329.60	0.2631	0.2605	
Moon	72013-03-03 03:07	G	28023329.59	28023329.63	28023329.66	0.2629	0.2503	*
Jupiter	72013-04-28 06:00	G	28023385.68	28023385.75	28023385.83	0.0544	0.0467	
Mars	72014-07-03 19:55	G	28023817.19	28023817.33	28023817.47	0.1698	0.0550	
Mars	72015-07-25 06:29	G	28024203.70	28024203.77	28024203.85	0.1838	0.1475	
Neptune	72018-06-19 18:15	G	28025264.25	28025264.26	28025264.29	0.0088	0.0087	
Neptune	72018-09-15 20:10	G	28025352.29	28025352.34	28025352.43	0.0088	0.0079	

Jupiter 72018-12-12 23:03 G 28025440.31 28025440.46 28025440.61 0.0485 0.0089

Neptune 72018-12-12 22:48 G 28025440.35 28025440.45 28025440.54 0.0088 0.0070 *

Neptune 72019-03-11 00:43 G 28025528.43 28025528.53 28025528.65 0.0088 0.0062

Neptune 72019-06-07 02:53 G 28025616.50 28025616.62 28025616.76 0.0088 0.0054

Venus 72019-09-02 13:55 G 28025703.97 28025704.08 28025704.19 0.3671 0.1559

Neptune 72019-09-03 05:17 G 28025704.58 28025704.72 28025704.86 0.0088 0.0045

Neptune 72019-11-30 07:27 G 28025792.67 28025792.81 28025792.96 0.0088 0.0037

Neptune 72020-02-26 09:51 G 28025880.75 28025880.91 28025881.06 0.0088 0.0028

Neptune 72020-05-24 11:46 G 28025968.84 28025968.99 28025969.16 0.0088 0.0020

Neptune 72020-08-20 14:10 G 28026056.93 28026057.09 28026057.26 0.0088 0.0011

Neptune 72020-11-16 16:34 G 28026145.02 28026145.19 28026145.35 0.0088 0.0002

Neptune 72021-02-12 18:43 G 28026233.12 28026233.28 28026233.45 0.0088 0.0007

Neptune 72021-05-11 21:07 G 28026321.22 28026321.38 28026321.54 0.0088 0.0015

Neptune 72021-08-07 23:17 G 28026409.31 28026409.47 28026409.63 0.0088 0.0024

Neptune 72021-11-04 01:27 G 28026497.42 28026497.56 28026497.72 0.0088 0.0033

Neptune 72022-01-31 03:36 G 28026585.52 28026585.65 28026585.81 0.0088 0.0042

Neptune 72022-04-29 06:15 G 28026673.63 28026673.76 28026673.90 0.0088 0.0050

Neptune 72022-07-26 08:24 G 28026761.74 28026761.85 28026761.98 0.0088 0.0059

Neptune 72022-10-22 10:48 G 28026849.85 28026849.95 28026850.06 0.0088 0.0068

Neptune 72023-01-18 12:58 G 28026937.98 28026938.04 28026938.13 0.0088 0.0077

Neptune 72023-04-16 15:22 G 28027026.12 28027026.14 28027026.19 0.0088 0.0086

Earth 72023-09-06 08:10 G 28027168.72 28027168.84 28027168.96 0.2699 0.0587

Moon 72023-09-06 08:53 G 28027168.75 28027168.87 28027168.99 0.2696 0.0649 *

Mars 72023-11-23 23:46 G 28027247.42 28027247.49 28027247.56 0.1704 0.1500

Saturn 72024-02-24 19:55 G 28027340.28 28027340.33 28027340.38 0.0279 0.0260

Saturn 72024-05-23 12:00 G 28027428.86 28027429.00 28027429.14 0.0278 0.0112

Saturn 72024-08-20 03:51 G 28027517.50 28027517.66 28027517.81 0.0278 0.0034

Saturn 72024-11-16 18:58 G 28027606.18 28027606.29 28027606.41 0.0278 0.0175

Uranus 72024-11-17 02:39 G 28027606.58 28027606.61 28027606.65 0.0135 0.0131

Mars 72024-12-14 13:12 G 28027633.93 28027634.05 28027634.17 0.1833 0.0514

Uranus 72025-02-13 07:12 G 28027694.71 28027694.80 28027694.89 0.0135 0.0110

Jupiter 72025-02-14 07:41 G 28027695.70 28027695.82 28027695.95 0.0544 0.0264

Venus 72025-03-18 10:48 G 28027727.86 28027727.95 28027728.04 0.3673 0.2416

Uranus 72025-05-12 11:31 G 28027782.87 28027782.98 28027783.10 0.0135 0.0089

Uranus 72025-08-08 16:05 G 28027871.04 28027871.17 28027871.30 0.0135 0.0068

Uranus 72025-11-04 20:24 G 28027959.21 28027959.35 28027959.50 0.0135 0.0047

Uranus 72026-02-01 00:43 G 28028047.38 28028047.53 28028047.68 0.0135 0.0027

Earth 72026-03-06 00:29 G 28028080.41 28028080.52 28028080.64 0.2632 0.1193

Moon 72026-03-06 00:58 G 28028080.42 28028080.54 28028080.66 0.2625 0.1180 *

Uranus 72026-04-30 05:03 G 28028135.56 28028135.71 28028135.87 0.0135 0.0007

Uranus 72026-07-27 09:22 G 28028223.74 28028223.89 28028224.04 0.0135 0.0015

Uranus 72026-10-23 13:41 G 28028311.92 28028312.07 28028312.22 0.0135 0.0035

Uranus 72027-01-19 17:46 G 28028400.11 28028400.24 28028400.38 0.0135 0.0056

Uranus 72027-04-17 22:05 G 28028488.30 28028488.42 28028488.55 0.0135 0.0075

Uranus 72027-07-15 02:10 G 28028576.49 28028576.59 28028576.70 0.0135 0.0096

Uranus 72027-10-11 06:15 G 28028664.69 28028664.76 28028664.84 0.0135 0.0116

Uranus 72028-01-07 10:19 G 28028752.93 28028752.93 28028752.95 0.0135 0.0135

Jupiter 72030-10-01 01:27 G 28029750.43 28029750.56 28029750.69 0.0485 0.0251

Jupiter 72030-12-29 14:39 G 28029840.03 28029840.11 28029840.19 0.0484 0.0406

Mars 72034-05-06 20:10 G 28031064.22 28031064.34 28031064.46 0.1826 0.0401

Mars 72035-03-22 11:17 G 28031383.88 28031383.97 28031384.06 0.1687 0.1338

Earth 72036-09-08 05:03 G 28031919.63 28031919.71 28031919.79 0.2698 0.1936

Moon 72036-09-08 05:17 G 28031919.64 28031919.72 28031919.80 0.2692 0.2021 *

Jupiter 72036-12-03 09:07 G 28032005.74 28032005.88 28032006.03 0.0544 0.0053

Moon 72039-03-08 23:03 G 28032831.33 28032831.46 28032831.60 0.2627 0.0313

Earth 72039-03-08 23:31 G 28032831.35 28032831.48 28032831.61 0.2633 0.0278 *

Saturn 72039-05-31 22:34 G 28032915.31 28032915.44 28032915.56 0.0280 0.0156

Saturn 72039-08-28 13:41 G 28033003.91 28033004.07 28033004.22 0.0280 0.0015

Saturn 72039-11-25 05:03 G 28033092.57 28033092.71 28033092.84 0.0281 0.0132

Jupiter 72042-07-20 04:05 G 28034060.59 28034060.67 28034060.76 0.0486 0.0406

Jupiter 72042-10-17 17:03 G 28034150.07 28034150.21 28034150.34 0.0485 0.0245

Earth 72043-09-01 18:43 G 28034469.19 28034469.28 28034469.36 0.2701 0.1998

Moon 72043-09-01 19:12 G 28034469.22 28034469.30 28034469.38 0.2707 0.2008 *

Mars 72043-09-27 03:22 G 28034494.55 28034494.64 28034494.72 0.1820 0.1297

Mars 72044-08-11 15:51 G 28034814.02 28034814.16 28034814.31 0.1693 0.0474

Jupiter 72048-09-21 09:07 G 28036315.75 28036315.88 28036316.03 0.0543 0.0185

Moon 72052-03-10 21:51 G 28037582.30 28037582.41 28037582.52 0.2631 0.1609

Earth 72052-03-10 22:48 G 28037582.36 28037582.45 28037582.55 0.2634 0.1812 *

Saturn 72053-10-10 13:12 G 28038160.92 28038161.05 28038161.19 0.0279 0.0149

Mars 72054-01-01 20:10 G 28038244.20 28038244.34 28038244.49 0.1698 0.0434

Saturn 72054-01-07 05:17 G 28038249.56 28038249.72 28038249.87 0.0279 0.0004

Saturn 72054-04-05 20:39 G 28038338.23 28038338.36 28038338.50 0.0279 0.0141

Jupiter 72054-08-05 19:12 G 28038460.15 28038460.30 28038460.46 0.0485 0.0082

Mars 72055-01-23 06:43 G 28038630.72 28038630.78 28038630.84 0.1839 0.1588

Earth 72056-09-03 16:05 G 28039220.05 28039220.17 28039220.29 0.2700 0.0557

Moon 72056-09-03 17:03 G 28039220.09 28039220.21 28039220.33 0.2701 0.0416 *

Venus 72058-02-12 01:55 G 28039746.47 28039746.58 28039746.69 0.3700 0.1543

Earth 72059-03-04 07:27 G 28040131.75 28040131.81 28040131.87 0.2631 0.2337

Moon 72059-03-04 08:24 G 28040131.78 28040131.85 28040131.92 0.2628 0.2218 *

Jupiter 72060-07-10 09:36 G 28040625.81 28040625.90 28040626.00 0.0542 0.0413

Jupiter 72060-10-08 04:34 G 28040715.62 28040715.69 28040715.76 0.0544 0.0474

Mars 72063-05-25 00:15 G 28041674.42 28041674.51 28041674.60 0.1704 0.1363

Venus 72063-08-28 21:36 G 28041770.31 28041770.40 28041770.50 0.3698 0.2176

Mars 72064-06-14 13:12 G 28042060.94 28042061.05 28042061.17 0.1832 0.0630

Uranus 72065-11-29 11:03 G 28042593.92 28042593.96 28042594.01 0.0143 0.0137

Uranus 72066-02-25 16:34 G 28042682.09 28042682.19 28042682.29 0.0143 0.0112

Jupiter 72066-05-24 21:36 G 28042770.25 28042770.40 28042770.55 0.0485 0.0080

Uranus 72066-05-24 21:51 G 28042770.29 28042770.41 28042770.55 0.0143 0.0087 *

Uranus 72066-08-21 03:22 G 28042858.50 28042858.64 28042858.79 0.0143 0.0061

Uranus 72066-11-17 09:07 G 28042946.72 28042946.88 28042947.04 0.0143 0.0035

Uranus 72067-02-13 14:39 G 28043034.95 28043035.11 28043035.28 0.0143 0.0010

Uranus 72067-05-12 20:24 G 28043123.19 28043123.35 28043123.51 0.0143 0.0017

Uranus 72067-08-09 01:55 G 28043211.43 28043211.58 28043211.74 0.0143 0.0043

Uranus 72067-11-05 07:41 G 28043299.68 28043299.82 28043299.97 0.0143 0.0069

Uranus 72068-02-01 13:27 G 28043387.95 28043388.06 28043388.19 0.0143 0.0096

Uranus 72068-04-29 19:27 G 28043476.23 28043476.31 28043476.39 0.0143 0.0122

Saturn 72068-10-18 00:58 G 28043647.43 28043647.54 28043647.66 0.0280 0.0185

Saturn 72069-01-14 15:51 G 28043736.01 28043736.16 28043736.32 0.0280 0.0045

Saturn 72069-04-13 07:12 G 28043824.66 28043824.80 28043824.95 0.0280 0.0101

Saturn 72069-07-10 22:48 G 28043913.39 28043913.45 28043913.53 0.0281 0.0249

Earth 72069-09-06 13:27 G 28043970.94 28043971.06 28043971.17 0.2699 0.0845

Moon 72069-09-06 14:10 G 28043970.98 28043971.09 28043971.21 0.2696 0.0944 *

Earth 72072-03-06 06:15 G 28044882.63 28044882.76 28044882.88 0.2632 0.0911

Moon 72072-03-06 06:29 G 28044882.64 28044882.77 28044882.90 0.2625 0.0868 *

Jupiter 72072-07-27 05:46 G 28045025.61 28045025.74 28045025.87 0.0544 0.0259

Mars 72073-11-04 19:55 G 28045491.21 28045491.33 28045491.46 0.1826 0.0316

Mars 72074-09-20 11:46 G 28045810.92 28045810.99 28045811.06 0.1687 0.1464

Venus 72076-04-08 12:43 G 28046376.91 28046377.03 28046377.15 0.3672 0.0139

Jupiter 72078-03-13 00:15 G 28047080.38 28047080.51 28047080.65 0.0485 0.0236

Jupiter 72078-06-10 13:27 G 28047169.99 28047170.06 28047170.14 0.0484 0.0422

Moon 72082-09-09 10:19 G 28048721.86 28048721.93 28048722.00 0.2691 0.2160

Earth 72082-09-09 10:19 G 28048721.86 28048721.93 28048722.00 0.2698 0.2192 *

Saturn 72083-02-27 13:12 G 28048892.95 28048893.05 28048893.17 0.0279 0.0200

Mars 72083-03-28 03:22 G 28048921.55 28048921.64 28048921.74 0.1820 0.1184

Saturn 72083-05-27 05:17 G 28048981.57 28048981.72 28048981.88 0.0278 0.0053

Saturn 72083-08-23 20:53 G 28049070.23 28049070.37 28049070.52 0.0278 0.0091

Saturn 72083-11-20 12:15 G 28049158.93 28049159.01 28049159.09 0.0278 0.0231

Mars 72084-02-10 16:19 G 28049241.04 28049241.18 28049241.32 0.1692 0.0595

Jupiter 72084-05-15 07:12 G 28049335.65 28049335.80 28049335.95 0.0544 0.0052

Moon 72085-03-09 04:34 G 28049633.56 28049633.69 28049633.82 0.2628 0.0470

Earth 72085-03-09 05:03 G 28049633.58 28049633.71 28049633.85 0.2633 0.0577 *

Earth 72089-09-02 00:00 G 28051271.40 28051271.50 28051271.60 0.2701 0.1720

Moon 72089-09-02 00:43 G 28051271.43 28051271.53 28051271.63 0.2706 0.1579 *

Jupiter 72089-12-30 02:39 G 28051390.53 28051390.61 28051390.70 0.0486 0.0397

Jupiter 72090-03-29 15:36 G 28051480.02 28051480.15 28051480.28 0.0485 0.0254

Mars 72093-07-02 20:39 G 28052671.22 28052671.36 28052671.51 0.1698 0.0303

Mars 72094-07-24 06:58 G 28053057.74 28053057.79 28053057.83 0.1839 0.1705

Jupiter 72096-03-03 08:24 G 28053645.71 28053645.85 28053645.99 0.0543 0.0162

Saturn 72098-03-07 00:29 G 28054379.45 28054379.52 28054379.60 0.0280 0.0240

Moon 72098-03-12 03:22 G 28054384.56 28054384.64 28054384.72 0.2631 0.2073

Earth 72098-03-12 04:34 G 28054384.61 28054384.69 28054384.77 0.2634 0.2102 *

Saturn 72098-06-03 15:22 G 28054468.00 28054468.14 28054468.28 0.0280 0.0101

Saturn 72098-08-31 06:29 G 28054556.62 28054556.77 28054556.92 0.0280 0.0042

Saturn 72098-11-27 21:51 G 28054645.30 28054645.41 28054645.53 0.0281 0.0190

Neptune 72100-04-07 16:48 G 28055141.18 28055141.20 28055141.25 0.0090 0.0088

Neptune 72100-07-04 18:58 G 28055229.23 28055229.29 28055229.38 0.0090 0.0079

Neptune 72100-09-30 21:07 G 28055317.29 28055317.38 28055317.49 0.0090 0.0070

Neptune 72100-12-27 23:17 G 28055405.36 28055405.47 28055405.59 0.0090 0.0061

Neptune 72101-03-26 01:27 G 28055493.44 28055493.56 28055493.69 0.0090 0.0052

Neptune 72101-06-22 03:36 G 28055581.52 28055581.65 28055581.79 0.0090 0.0043

Neptune 72101-09-18 05:31 G 28055669.59 28055669.73 28055669.88 0.0090 0.0034

Neptune 72101-12-15 07:41 G 28055757.67 28055757.82 28055757.97 0.0090 0.0026

Jupiter 72102-01-16 18:00 G 28055790.10 28055790.25 28055790.40 0.0485 0.0093

Neptune 72102-03-13 09:51 G 28055845.76 28055845.91 28055846.06 0.0090 0.0017

Neptune 72102-06-09 11:46 G 28055933.84 28055933.99 28055934.14 0.0090 0.0008

Neptune 72102-09-05 13:55 G 28056021.92 28056022.08 28056022.23 0.0090 0.0002

Earth 72102-09-05 21:22 G 28056022.27 28056022.39 28056022.52 0.2700 0.0293

Moon 72102-09-05 22:19 G 28056022.31 28056022.43 28056022.56 0.2699 0.0261 *

Mars 72102-11-24 00:43 G 28056101.43 28056101.53 28056101.63 0.1704 0.1233

Neptune 72102-12-02 15:51 G 28056110.01 28056110.16 28056110.31 0.0090 0.0009

Neptune 72103-02-28 17:46 G 28056198.09 28056198.24 28056198.39 0.0090 0.0018

Neptune 72103-05-27 19:41 G 28056286.18 28056286.32 28056286.47 0.0090 0.0026

Neptune 72103-08-23 21:36 G 28056374.27 28056374.40 28056374.55 0.0090 0.0035

Neptune 72103-11-19 23:31 G 28056462.36 28056462.48 28056462.62 0.0090 0.0043

Mars 72103-12-15 13:27 G 28056487.94 28056488.06 28056488.17 0.1832 0.0735

Neptune 72104-02-16 01:27 G 28056550.45 28056550.56 28056550.70 0.0090 0.0052

Neptune 72104-05-14 03:36 G 28056638.54 28056638.65 28056638.76 0.0090 0.0060

Neptune 72104-08-10 05:17 G 28056726.64 28056726.72 28056726.83 0.0090 0.0069

Neptune 72104-11-06 07:12 G 28056814.74 28056814.80 28056814.89 0.0090 0.0077

Neptune 72105-02-02 09:22 G 28056902.85 28056902.89 28056902.94 0.0090 0.0085

Earth 72105-03-05 12:58 G 28056933.96 28056934.04 28056934.12 0.2631 0.2066

Moon 72105-03-05 13:41 G 28056933.99 28056934.07 28056934.15 0.2627 0.2050 *

Jupiter 72107-12-22 08:24 G 28057955.76 28057955.85 28057955.96 0.0542 0.0397

Jupiter 72108-03-21 03:22 G 28058045.59 28058045.64 28058045.71 0.0543 0.0490

Uranus 72108-12-08 10:05 G 28058307.87 28058307.92 28058308.00 0.0135 0.0123

Uranus 72109-03-06 14:53 G 28058396.02 28058396.12 28058396.22 0.0135 0.0101

Uranus 72109-06-02 18:58 G 28058484.18 28058484.29 28058484.43 0.0135 0.0081

Uranus 72109-08-29 23:31 G 28058572.35 28058572.48 28058572.63 0.0135 0.0060

Uranus 72109-11-26 04:05 G 28058660.52 28058660.67 28058660.82 0.0135 0.0039

Uranus 72110-02-22 08:24 G 28058748.70 28058748.85 28058749.00 0.0135 0.0018

Uranus 72110-05-21 12:43 G 28058836.88 28058837.03 28058837.18 0.0135 0.0003

Uranus 72110-08-17 17:03 G 28058925.06 28058925.21 28058925.36 0.0135 0.0023

Uranus 72110-11-13 21:22 G 28059013.25 28059013.39 28059013.53 0.0135 0.0043

Uranus 72111-02-10 01:27 G 28059101.43 28059101.56 28059101.70 0.0135 0.0064

Uranus 72111-05-09 05:46 G 28059189.62 28059189.74 28059189.86 0.0135 0.0084

Uranus 72111-08-05 09:51 G 28059277.82 28059277.91 28059278.01 0.0135 0.0104

Uranus 72111-11-01 13:55 G 28059366.03 28059366.08 28059366.14 0.0135 0.0124

Saturn 72112-07-17 14:24 G 28059625.02 28059625.10 28059625.18 0.0280 0.0241

Saturn 72112-10-14 06:29 G 28059713.62 28059713.77 28059713.92 0.0279 0.0092

Saturn 72113-01-10 22:19 G 28059802.28 28059802.43 28059802.58 0.0279 0.0054

Saturn 72113-04-09 13:41 G 28059890.96 28059891.07 28059891.18 0.0279 0.0196

Mars 72113-05-06 20:10 G 28059918.22 28059918.34 28059918.47 0.1826 0.0200

Jupiter 72113-11-04 20:10 G 28060100.19 28060100.34 28060100.50 0.0486 0.0072

Mars 72114-03-22 12:00 G 28060237.95 28060238.00 28060238.05 0.1687 0.1576

Venus 72114-09-20 00:29 G 28060419.40 28060419.52 28060419.64 0.3699 0.0156

Earth 72115-09-08 18:29 G 28060773.16 28060773.27 28060773.39 0.2699 0.1101

Moon 72115-09-08 19:12 G 28060773.19 28060773.30 28060773.42 0.2695 0.1187 *

Moon 72118-03-08 11:46 G 28061684.86 28061684.99 28061685.12 0.2626 0.0606

Earth 72118-03-08 11:46 G 28061684.86 28061684.99 28061685.11 0.2632 0.0641 *

Jupiter 72120-01-08 04:19 G 28062355.55 28062355.68 28062355.81 0.0543 0.0268

Venus 72120-04-04 20:10 G 28062443.31 28062443.34 28062443.37 0.3698 0.3508

Mars 72122-09-27 03:22 G 28063348.54 28063348.64 28063348.74 0.1820 0.1086

Mars 72123-08-12 16:48 G 28063668.06 28063668.20 28063668.33 0.1693 0.0718

Jupiter 72125-08-23 22:48 G 28064410.31 28064410.45 28064410.58 0.0486 0.0230

Jupiter 72125-11-21 11:46 G 28064499.93 28064499.99 28064500.07 0.0485 0.0429

Venus 72127-05-01 14:53 G 28065026.03 28065026.12 28065026.20 0.3671 0.2586

Saturn 72127-07-26 03:22 G 28065111.60 28065111.64 28065111.68 0.0279 0.0266

Saturn 72127-10-22 18:00 G 28065200.12 28065200.25 28065200.39 0.0280 0.0128

Saturn 72128-01-19 09:07 G 28065288.73 28065288.88 28065289.03 0.0280 0.0014

Saturn 72128-04-17 00:29 G 28065377.40 28065377.52 28065377.65 0.0280 0.0160

Earth 72128-09-10 15:22 G 28065524.09 28065524.14 28065524.19 0.2698 0.2441

Moon 72128-09-10 15:22 G 28065524.10 28065524.14 28065524.19 0.2691 0.2456 *

Moon 72131-03-11 09:51 G 28066435.79 28066435.91 28066436.04 0.2628 0.0801

Earth 72131-03-11 10:48 G 28066435.82 28066435.95 28066436.07 0.2633 0.0861 *

Jupiter 72131-10-27 05:03 G 28066665.56 28066665.71 28066665.86 0.0543 0.0046

Venus 72132-11-14 11:31 G 28067049.86 28067049.98 28067050.09 0.3672 0.1306

Mars 72133-01-01 21:22 G 28067098.24 28067098.39 28067098.54 0.1698 0.0167

Mars 72134-01-23 06:43 G 28067484.76 28067484.78 28067484.81 0.1838 0.1804

Earth 72135-09-04 05:17 G 28068073.62 28068073.72 28068073.83 0.2701 0.1446

Moon 72135-09-04 06:00 G 28068073.65 28068073.75 28068073.86 0.2705 0.1449 *

Jupiter 72137-06-12 01:27 G 28068720.47 28068720.56 28068720.65 0.0486 0.0385

Jupiter 72137-09-09 14:10 G 28068809.96 28068810.09 28068810.22 0.0485 0.0266

Saturn 72142-03-03 07:12 G 28070445.66 28070445.80 28070445.93 0.0279 0.0137

Mars 72142-05-25 01:12 G 28070528.44 28070528.55 28070528.66 0.1704 0.1105

Saturn 72142-05-30 23:03 G 28070534.30 28070534.46 28070534.62 0.0278 0.0009

Saturn 72142-08-27 14:24 G 28070622.98 28070623.10 28070623.23 0.0278 0.0152

Mars 72143-06-15 13:27 G 28070914.95 28070915.06 28070915.17 0.1833 0.0845

Jupiter 72143-08-15 06:15 G 28070975.62 28070975.76 28070975.90 0.0543 0.0166

Moon 72144-03-13 09:07 G 28071186.81 28071186.88 28071186.95 0.2633 0.2226

Earth 72144-03-13 10:05 G 28071186.87 28071186.92 28071186.97 0.2634 0.2405 *

Pluto 72145-10-15 00:58 G 28071767.51 28071767.54 28071767.62 0.0064 0.0061

Pluto 72146-01-11 01:55 G 28071855.50 28071855.58 28071855.70 0.0064 0.0050

Pluto 72146-04-09 02:53 G 28071943.51 28071943.62 28071943.75 0.0064 0.0039

Pluto 72146-07-06 03:51 G 28072031.52 28072031.66 28072031.80 0.0064 0.0028

Pluto 72146-10-02 04:34 G 28072119.54 28072119.69 28072119.84 0.0065 0.0017

Pluto 72146-12-29 05:17 G 28072207.57 28072207.72 28072207.88 0.0065 0.0007

Pluto 72147-03-27 06:15 G 28072295.60 28072295.76 28072295.91 0.0065 0.0005

Pluto 72147-06-23 06:43 G 28072383.64 28072383.78 28072383.94 0.0065 0.0016

Pluto 72147-09-19 07:27 G 28072471.68 28072471.81 28072471.96 0.0065 0.0027

Pluto 72147-12-16 08:39 G 28072559.73 28072559.86 28072559.98 0.0065 0.0037

Pluto 72148-03-13 09:07 G 28072647.79 28072647.88 28072647.99 0.0065 0.0049

Pluto 72148-06-09 09:51 G 28072735.86 28072735.91 28072735.98 0.0065 0.0060

Earth 72148-09-06 02:39 G 28072824.49 28072824.61 28072824.74 0.2700 0.0100

Moon 72148-09-06 03:51 G 28072824.53 28072824.66 28072824.78 0.2699 0.0184 *

Jupiter 72149-06-28 16:19 G 28073120.03 28073120.18 28073120.33 0.0485 0.0100

Uranus 72149-12-20 18:29 G 28073295.20 28073295.27 28073295.34 0.0143 0.0129

Uranus 72150-03-18 23:46 G 28073383.39 28073383.49 28073383.61 0.0143 0.0104

Uranus 72150-06-15 05:17 G 28073471.59 28073471.72 28073471.86 0.0143 0.0078

Uranus 72150-09-11 10:48 G 28073559.81 28073559.95 28073560.10 0.0143 0.0053

Uranus 72150-12-08 16:34 G 28073648.03 28073648.19 28073648.34 0.0143 0.0027

Earth 72151-03-06 18:29 G 28073736.17 28073736.27 28073736.36 0.2632 0.1803

Moon 72151-03-06 18:58 G 28073736.19 28073736.29 28073736.40 0.2626 0.1656 *

Uranus 72151-03-06 22:05 G 28073736.26 28073736.42 28073736.58 0.0143 0.0002 *

Uranus 72151-06-03 03:36 G 28073824.49 28073824.65 28073824.81 0.0143 0.0025

Uranus 72151-08-30 09:22 G 28073912.74 28073912.89 28073913.04 0.0143 0.0051

Uranus 72151-11-26 15:07 G 28074000.99 28074001.13 28074001.27 0.0143 0.0077

Uranus 72152-02-22 20:39 G 28074089.26 28074089.36 28074089.48 0.0143 0.0104

Uranus 72152-05-21 02:39 G 28074177.55 28074177.61 28074177.68 0.0143 0.0130

Mars 72152-11-04 20:24 G 28074345.22 28074345.35 28074345.47 0.1826 0.0097

Jupiter 72155-06-03 07:27 G 28075285.70 28075285.81 28075285.91 0.0543 0.0382

Jupiter 72155-09-01 02:24 G 28075375.55 28075375.60 28075375.65 0.0544 0.0507

Saturn 72157-03-10 17:46 G 28075932.13 28075932.24 28075932.35 0.0280 0.0182

Saturn 72157-06-07 08:39 G 28076020.71 28076020.86 28076021.01 0.0280 0.0041

Saturn 72157-09-03 23:46 G 28076109.35 28076109.49 28076109.64 0.0280 0.0103

Saturn 72157-12-01 15:22 G 28076198.08 28076198.14 28076198.21 0.0281 0.0251

Jupiter 72161-04-16 18:58 G 28077430.13 28077430.29 28077430.44 0.0485 0.0061

Earth 72161-09-08 23:46 G 28077575.39 28077575.49 28077575.60 0.2699 0.1362

Moon 72161-09-09 00:29 G 28077575.41 28077575.52 28077575.62 0.2694 0.1380 *

Mars 72162-03-28 03:22 G 28077775.54 28077775.64 28077775.75 0.1820 0.0977

Mars 72163-02-10 17:17 G 28078095.09 28078095.22 28078095.34 0.1693 0.0845

Moon 72164-03-08 17:03 G 28078487.08 28078487.21 28078487.35 0.2626 0.0402

Earth 72164-03-08 17:17 G 28078487.08 28078487.22 28078487.35 0.2632 0.0358 *

Venus 72165-10-11 03:07 G 28079068.54 28079068.63 28079068.71 0.3700 0.2555

Jupiter 72167-06-20 03:07 G 28079685.50 28079685.63 28079685.75 0.0543 0.0282

Earth 72168-09-01 12:58 G 28080125.02 28080125.04 28080125.06 0.2701 0.2642

Moon 72168-09-01 13:12 G 28080125.04 28080125.05 28080125.07 0.2708 0.2669 *

Venus 72171-04-26 23:03 G 28081092.35 28081092.46 28081092.57 0.3699 0.1221

Saturn 72171-07-21 07:55 G 28081177.71 28081177.83 28081177.95 0.0280 0.0179

Saturn 72171-10-18 00:00 G 28081266.35 28081266.50 28081266.66 0.0279 0.0031

Saturn 72172-01-14 15:36 G 28081355.02 28081355.15 28081355.30 0.0279 0.0114

Saturn 72172-04-12 06:58 G 28081443.73 28081443.79 28081443.85 0.0279 0.0254

Mars 72172-07-02 21:36 G 28081525.25 28081525.40 28081525.55 0.1698 0.0055

Jupiter 72173-02-02 21:07 G 28081740.25 28081740.38 28081740.52 0.0486 0.0224

Jupiter 72173-05-03 10:19 G 28081829.86 28081829.93 28081830.00 0.0485 0.0436

Moon 72174-09-11 20:39 G 28082326.35 28082326.36 28082326.37 0.2691 0.2679

Earth 72174-09-11 20:39 G 28082326.36 28082326.36 28082326.36 0.2698 0.2692 *

Moon 72177-03-11 15:22 G 28083238.02 28083238.14 28083238.27 0.2628 0.1062

Earth 72177-03-11 16:19 G 28083238.06 28083238.18 28083238.30 0.2633 0.1146 *

Jupiter 72179-04-08 03:36 G 28083995.51 28083995.65 28083995.80 0.0543 0.0058

Earth 72181-09-04 10:34 G 28084875.83 28084875.94 28084876.06 0.2701 0.1179

Moon 72181-09-04 11:31 G 28084875.87 28084875.98 28084876.10 0.2703 0.1014 *

Mars 72181-11-23 01:41 G 28084955.45 28084955.57 28084955.69 0.1704 0.0967

Mars 72182-12-14 13:27 G 28085341.95 28085342.06 28085342.17 0.1832 0.0948

Neptune 72183-03-17 16:48 G 28085435.17 28085435.20 28085435.27 0.0088 0.0083

Neptune 72183-06-13 18:58 G 28085523.22 28085523.29 28085523.39 0.0088 0.0075

Neptune 72183-09-09 21:22 G 28085611.29 28085611.39 28085611.50 0.0088 0.0066

Venus 72183-12-06 13:27 G 28085698.95 28085699.06 28085699.18 0.3671 0.1205

Neptune 72183-12-06 23:31 G 28085699.37 28085699.48 28085699.61 0.0088 0.0058

Neptune 72184-03-04 01:27 G 28085787.45 28085787.56 28085787.71 0.0088 0.0050

Neptune 72184-05-31 03:51 G 28085875.53 28085875.66 28085875.81 0.0088 0.0041

Neptune 72184-08-27 06:00 G 28085963.61 28085963.75 28085963.91 0.0088 0.0033

Jupiter 72184-11-21 23:46 G 28086050.40 28086050.49 28086050.58 0.0486 0.0382

Neptune 72184-11-23 08:24 G 28086051.70 28086051.85 28086052.01 0.0088 0.0024

Neptune 72185-02-19 10:34 G 28086139.79 28086139.94 28086140.11 0.0088 0.0016

Jupiter 72185-02-19 12:29 G 28086139.89 28086140.02 28086140.15 0.0485 0.0270 *

Neptune 72185-05-18 12:58 G 28086227.88 28086228.04 28086228.20 0.0088 0.0007

Neptune 72185-08-14 15:07 G 28086315.97 28086316.13 28086316.30 0.0088 0.0003

Neptune 72185-11-10 17:31 G 28086404.07 28086404.23 28086404.39 0.0088 0.0011

Neptune 72186-02-06 19:41 G 28086492.16 28086492.32 28086492.48 0.0088 0.0019

Neptune 72186-05-05 22:05 G 28086580.26 28086580.42 28086580.57 0.0088 0.0028

Saturn 72186-07-28 20:53 G 28086664.27 28086664.37 28086664.47 0.0279 0.0205

Neptune 72186-08-02 00:15 G 28086668.37 28086668.51 28086668.66 0.0088 0.0037

Saturn 72186-10-25 11:46 G 28086752.84 28086752.99 28086753.14 0.0280 0.0066

Neptune 72186-10-29 02:24 G 28086756.47 28086756.60 28086756.75 0.0088 0.0046

Saturn 72187-01-22 02:53 G 28086841.48 28086841.62 28086841.77 0.0280 0.0078

Neptune 72187-01-25 04:34 G 28086844.58 28086844.69 28086844.84 0.0088 0.0055

Saturn 72187-04-20 18:29 G 28086930.18 28086930.27 28086930.36 0.0280 0.0225

Neptune 72187-04-23 06:58 G 28086932.69 28086932.79 28086932.92 0.0088 0.0064

Neptune 72187-07-20 09:36 G 28087020.81 28087020.90 28087020.99 0.0088 0.0072

Neptune 72187-10-16 11:46 G 28087108.94 28087108.99 28087109.06 0.0088 0.0081

Venus 72189-06-21 10:19 G 28087722.85 28087722.93 28087723.00 0.3673 0.2772

Moon 72190-03-14 14:39 G 28087989.10 28087989.11 28087989.12 0.2635 0.2623

Jupiter 72191-01-25 04:05 G 28088305.53 28088305.67 28088305.81 0.0543 0.0173

Mars 72192-05-05 20:10 G 28088772.22 28088772.34 28088772.47 0.1826 0.0052

Uranus 72192-12-28 17:31 G 28089009.16 28089009.23 28089009.32 0.0135 0.0115

Uranus 72193-03-26 22:05 G 28089097.32 28089097.42 28089097.54 0.0135 0.0094

Uranus 72193-06-23 02:39 G 28089185.49 28089185.61 28089185.74 0.0135 0.0073

Uranus 72193-09-19 06:58 G 28089273.66 28089273.79 28089273.94 0.0135 0.0052

Uranus 72193-12-16 11:31 G 28089361.83 28089361.98 28089362.13 0.0135 0.0031

Uranus 72194-03-14 15:51 G 28089450.01 28089450.16 28089450.31 0.0135 0.0011

Uranus 72194-06-10 20:10 G 28089538.19 28089538.34 28089538.49 0.0135 0.0010

Uranus 72194-09-07 00:29 G 28089626.37 28089626.52 28089626.67 0.0135 0.0031

Earth 72194-09-07 07:55 G 28089626.71 28089626.83 28089626.96 0.2700 0.0261

Moon 72194-09-07 08:53 G 28089626.75 28089626.87 28089627.00 0.2699 0.0287 *

Uranus 72194-12-04 04:34 G 28089714.56 28089714.69 28089714.84 0.0135 0.0051

Uranus 72195-03-02 08:53 G 28089802.74 28089802.87 28089803.00 0.0135 0.0071

Uranus 72195-05-29 12:58 G 28089890.94 28089891.04 28089891.16 0.0135 0.0091

Uranus 72195-08-25 17:03 G 28089979.14 28089979.21 28089979.30 0.0135 0.0111

Uranus 72195-11-21 21:22 G 28090067.36 28090067.39 28090067.43 0.0135 0.0131

Jupiter 72196-12-08 14:53 G 28090449.97 28090450.12 28090450.27 0.0485 0.0109

Earth 72197-03-07 00:00 G 28090538.39 28090538.50 28090538.60 0.2632 0.1529

Moon 72197-03-07 00:29 G 28090538.42 28090538.52 28090538.63 0.2626 0.1541 *

Saturn 72200-12-08 09:07 G 28091909.78 28091909.88 28091909.97 0.0279 0.0220

Saturn 72201-03-07 01:12 G 28091998.40 28091998.55 28091998.70 0.0279 0.0072

Saturn 72201-06-03 16:48 G 28092087.06 28092087.20 28092087.36 0.0278 0.0074

Saturn 72201-08-31 08:10 G 28092175.75 28092175.84 28092175.94 0.0278 0.0214

Mars 72201-09-27 03:36 G 28092202.54 28092202.65 28092202.76 0.1820 0.0867

Mars 72202-08-12 17:31 G 28092522.11 28092522.23 28092522.35 0.1693 0.0964

Jupiter 72202-11-14 05:03 G 28092615.61 28092615.71 28092615.81 0.0543 0.0390

Jupiter 72203-02-12 00:15 G 28092705.45 28092705.51 28092705.56 0.0544 0.0499

Earth 72207-09-11 05:03 G 28094377.61 28094377.71 28094377.81 0.2699 0.1617

Moon 72207-09-11 05:31 G 28094377.63 28094377.73 28094377.82 0.2693 0.1718 *

Jupiter 72208-09-27 17:03 G 28094760.06 28094760.21 28094760.37 0.0485 0.0057

Moon 72210-03-10 22:19 G 28095289.30 28095289.43 28095289.57 0.2626 0.0055

Earth 72210-03-10 22:48 G 28095289.31 28095289.45 28095289.58 0.2632 0.0116 *

Mars 72211-02-17 11:03 G 28095632.92 28095632.96 28095632.99 0.1813 0.1723

Mars 72212-01-02 22:05 G 28095952.27 28095952.42 28095952.57 0.1698 0.0082

Earth 72214-09-03 18:15 G 28096927.21 28096927.26 28096927.32 0.2701 0.2365

Moon 72214-09-03 18:43 G 28096927.22 28096927.28 28096927.34 0.2708 0.2301 *

Jupiter 72214-12-01 01:41 G 28097015.45 28097015.57 28097015.69 0.0544 0.0293

Saturn 72215-12-16 20:53 G 28097396.31 28097396.37 28097396.43 0.0280 0.0256

Saturn 72216-03-14 11:31 G 28097484.84 28097484.98 28097485.12 0.0280 0.0118

Saturn 72216-06-11 02:39 G 28097573.45 28097573.61 28097573.76 0.0280 0.0024

Saturn 72216-09-07 17:46 G 28097662.12 28097662.24 28097662.37 0.0280 0.0169

Jupiter 72220-07-16 19:41 G 28099070.19 28099070.32 28099070.46 0.0486 0.0215

Jupiter 72220-10-14 08:53 G 28099159.81 28099159.87 28099159.93 0.0485 0.0444

Mars 72221-05-25 02:10 G 28099382.46 28099382.59 28099382.72 0.1704 0.0846

Venus 72222-05-19 01:41 G 28099741.46 28099741.57 28099741.68 0.3700 0.1158

Mars 72222-06-15 13:41 G 28099768.96 28099769.07 28099769.17 0.1832 0.1062

Moon 72223-03-13 20:53 G 28100040.26 28100040.37 28100040.49 0.2629 0.1329

Earth 72223-03-13 21:51 G 28100040.30 28100040.41 28100040.52 0.2633 0.1435 *

Jupiter 72226-09-19 02:24 G 28101325.45 28101325.60 28101325.74 0.0543 0.0069

Earth 72227-09-06 15:51 G 28101678.05 28101678.16 28101678.28 0.2701 0.0911

Moon 72227-09-06 17:03 G 28101678.09 28101678.21 28101678.32 0.2702 0.0864 *

Venus 72227-12-02 21:36 G 28101765.31 28101765.40 28101765.48 0.3699 0.2574

Saturn 72230-04-27 09:36 G 28102641.85 28102641.90 28102641.95 0.0280 0.0265

Saturn 72230-07-25 01:55 G 28102730.44 28102730.58 28102730.73 0.0280 0.0115

Saturn 72230-10-21 18:00 G 28102819.09 28102819.25 28102819.40 0.0279 0.0033

Saturn 72231-01-18 09:22 G 28102907.78 28102907.89 28102908.01 0.0279 0.0176

Mars 72231-11-05 20:24 G 28103199.22 28103199.35 28103199.48 0.1826 0.0127

Jupiter 72232-05-04 21:51 G 28103380.32 28103380.41 28103380.51 0.0486 0.0379

Jupiter 72232-08-02 10:48 G 28103469.82 28103469.95 28103470.07 0.0485 0.0274

Uranus 72234-01-11 02:10 G 28103996.50 28103996.59 28103996.67 0.0143 0.0120

Uranus 72234-04-09 07:27 G 28104084.70 28104084.81 28104084.93 0.0143 0.0095

Uranus 72234-07-06 12:58 G 28104172.90 28104173.04 28104173.18 0.0143 0.0069

Pluto 72234-10-02 06:43 G 28104260.72 28104260.78 28104260.88 0.0080 0.0070

Uranus 72234-10-02 18:29 G 28104261.12 28104261.27 28104261.42 0.0143 0.0044

Venus 72234-12-28 15:36 G 28104348.14 28104348.15 28104348.17 0.3670 0.3614

Pluto 72234-12-29 08:39 G 28104348.75 28104348.86 28104349.00 0.0080 0.0049

Uranus 72234-12-30 00:00 G 28104349.34 28104349.50 28104349.66 0.0143 0.0018

Pluto 72235-03-27 10:19 G 28104436.79 28104436.93 28104437.10 0.0080 0.0028

Uranus 72235-03-28 05:31 G 28104437.57 28104437.73 28104437.90 0.0143 0.0009

Pluto 72235-06-23 12:15 G 28104524.86 28104525.01 28104525.18 0.0080 0.0007

Uranus 72235-06-24 11:17 G 28104525.81 28104525.97 28104526.13 0.0143 0.0034

Pluto 72235-09-19 14:10 G 28104612.93 28104613.09 28104613.25 0.0080 0.0015

Uranus 72235-09-20 16:48 G 28104614.06 28104614.20 28104614.35 0.0143 0.0060

Pluto 72235-12-16 15:51 G 28104701.02 28104701.16 28104701.31 0.0079 0.0036

Uranus 72235-12-17 22:34 G 28104702.32 28104702.44 28104702.57 0.0143 0.0086

Pluto 72236-03-13 17:31 G 28104789.12 28104789.23 28104789.35 0.0079 0.0057

Uranus 72236-03-15 04:19 G 28104790.59 28104790.68 28104790.78 0.0143 0.0113

Pluto 72236-06-09 19:12 G 28104877.28 28104877.30 28104877.34 0.0079 0.0078

Uranus 72236-06-11 10:19 G 28104878.89 28104878.93 28104878.96 0.0143 0.0139

Jupiter 72238-07-08 02:39 G 28105635.47 28105635.61 28105635.76 0.0542 0.0162

Venus 72240-07-13 12:15 G 28106371.88 28106372.01 28106372.13 0.3672 0.0245

Earth 72240-09-08 13:12 G 28106428.93 28106429.05 28106429.17 0.2700 0.0512

Moon 72240-09-08 14:10 G 28106428.97 28106429.09 28106429.21 0.2698 0.0675 *

Mars 72241-03-28 03:36 G 28106629.53 28106629.65 28106629.76 0.1820 0.0767

Mars 72242-02-10 18:00 G 28106949.14 28106949.25 28106949.36 0.1693 0.1089

Earth 72243-03-09 05:17 G 28107340.61 28107340.72 28107340.84 0.2632 0.1259

Moon 72243-03-09 06:00 G 28107340.62 28107340.75 28107340.87 0.2626 0.1128 *

Jupiter 72244-05-21 12:58 G 28107779.89 28107780.04 28107780.19 0.0485 0.0110

Saturn 72245-05-05 00:00 G 28108128.50 28108128.50 28108128.52 0.0279 0.0279

Saturn 72245-08-01 14:53 G 28108216.99 28108217.12 28108217.25 0.0279 0.0141

Saturn 72245-10-29 05:46 G 28108305.59 28108305.74 28108305.89 0.0280 0.0004

Saturn 72246-01-25 21:07 G 28108394.25 28108394.38 28108394.51 0.0280 0.0145

Jupiter 72250-04-26 02:39 G 28109945.51 28109945.61 28109945.71 0.0542 0.0398

Jupiter 72250-07-24 21:51 G 28110035.35 28110035.41 28110035.47 0.0544 0.0491

Mars 72250-08-18 11:03 G 28110059.90 28110059.96 28110060.01 0.1814 0.1627

Mars 72251-07-03 22:34 G 28110379.29 28110379.44 28110379.59 0.1698 0.0211

Earth 72253-09-11 10:19 G 28111179.84 28111179.93 28111180.02 0.2699 0.1876

Moon 72253-09-11 10:48 G 28111179.86 28111179.95 28111180.04 0.2692 0.1837 *

Jupiter 72256-03-09 15:36 G 28112089.99 28112090.15 28112090.30 0.0485 0.0051

Moon 72256-03-11 03:51 G 28112091.52 28112091.66 28112091.79 0.2626 0.0086

Earth 72256-03-11 04:19 G 28112091.54 28112091.68 28112091.81 0.2633 0.0215 *

Saturn 72259-12-12 03:36 G 28113462.52 28113462.65 28113462.78 0.0279 0.0151

Saturn 72260-03-09 19:41 G 28113551.16 28113551.32 28113551.47 0.0279 0.0006

Saturn 72260-06-06 11:17 G 28113639.84 28113639.97 28113640.10 0.0279 0.0140

Earth 72260-09-03 23:46 G 28113729.41 28113729.49 28113729.57 0.2701 0.2085

Moon 72260-09-04 00:15 G 28113729.43 28113729.51 28113729.59 0.2707 0.2031 *

Mars 72260-11-23 02:39 G 28113809.47 28113809.61 28113809.74 0.1704 0.0713

Mars 72261-12-14 13:41 G 28114195.97 28114196.07 28114196.17 0.1833 0.1167

Jupiter 72262-05-12 23:17 G 28114345.34 28114345.47 28114345.59 0.0544 0.0282

Neptune 72265-01-03 16:05 G 28115312.11 28115312.17 28115312.22 0.0090 0.0083

Neptune 72265-04-01 18:15 G 28115400.17 28115400.26 28115400.34 0.0090 0.0074

Neptune 72265-06-28 19:55 G 28115488.24 28115488.33 28115488.45 0.0090 0.0066

Neptune 72265-09-24 22:05 G 28115576.31 28115576.42 28115576.55 0.0090 0.0057

Neptune 72265-12-22 00:15 G 28115664.39 28115664.51 28115664.65 0.0090 0.0048

Neptune 72266-03-20 02:24 G 28115752.47 28115752.60 28115752.75 0.0090 0.0039

Neptune 72266-06-16 04:34 G 28115840.55 28115840.69 28115840.84 0.0090 0.0030

Neptune 72266-09-12 06:29 G 28115928.63 28115928.77 28115928.93 0.0090 0.0022

Neptune 72266-12-09 08:39 G 28116016.71 28116016.86 28116017.02 0.0090 0.0013

Neptune 72267-03-07 10:48 G 28116104.80 28116104.95 28116105.10 0.0090 0.0004

Neptune 72267-06-03 12:43 G 28116192.88 28116193.03 28116193.19 0.0090 0.0005

Neptune 72267-08-30 14:39 G 28116280.97 28116281.11 28116281.27 0.0090 0.0014

Neptune 72267-11-26 16:48 G 28116369.05 28116369.20 28116369.35 0.0090 0.0022

Jupiter 72267-12-27 17:46 G 28116400.11 28116400.24 28116400.38 0.0486 0.0213

Neptune 72268-02-22 18:43 G 28116457.14 28116457.28 28116457.43 0.0090 0.0030

Jupiter 72268-03-26 06:58 G 28116489.73 28116489.79 28116489.85 0.0485 0.0446

Neptune 72268-05-20 20:53 G 28116545.23 28116545.37 28116545.50 0.0090 0.0039

Neptune 72268-08-16 22:34 G 28116633.32 28116633.44 28116633.58 0.0090 0.0048

Neptune 72268-11-13 00:29 G 28116721.41 28116721.52 28116721.65 0.0090 0.0056

Neptune 72269-02-09 02:24 G 28116809.51 28116809.60 28116809.72 0.0090 0.0064

Moon 72269-03-14 02:24 G 28116842.50 28116842.60 28116842.71 0.2630 0.1673

Earth 72269-03-14 03:22 G 28116842.54 28116842.64 28116842.74 0.2633 0.1725 *

Neptune 72269-05-08 04:19 G 28116897.61 28116897.68 28116897.78 0.0090 0.0073

Neptune 72269-08-04 06:29 G 28116985.71 28116985.77 28116985.84 0.0090 0.0081

Neptune 72269-10-31 08:24 G 28117073.84 28117073.85 28117073.87 0.0090 0.0089

Mars 72270-04-15 06:15 G 28117239.73 28117239.76 28117239.79 0.1710 0.1669

Mars 72271-05-06 20:39 G 28117626.23 28117626.36 28117626.48 0.1826 0.0248

Venus 72273-06-09 04:05 G 28118390.65 28118390.67 28118390.69 0.3701 0.3616

Earth 72273-09-06 21:22 G 28118480.27 28118480.39 28118480.51 0.2700 0.0636

Moon 72273-09-06 22:19 G 28118480.31 28118480.43 28118480.55 0.2702 0.0482 *

Jupiter 72274-03-01 00:43 G 28118655.38 28118655.53 28118655.67 0.0543 0.0074

Saturn 72274-12-19 15:07 G 28118949.02 28118949.13 28118949.24 0.0280 0.0190

Saturn 72275-03-18 05:46 G 28119037.59 28119037.74 28119037.89 0.0280 0.0050

Saturn 72275-06-14 20:53 G 28119126.23 28119126.37 28119126.52 0.0280 0.0093

Saturn 72275-09-11 12:29 G 28119214.94 28119215.02 28119215.10 0.0280 0.0240

Earth 72276-03-06 12:15 G 28119391.96 28119392.01 28119392.06 0.2631 0.2400

Moon 72276-03-06 13:12 G 28119391.99 28119392.05 28119392.12 0.2627 0.2259 *

Uranus 72276-10-22 20:39 G 28119622.32 28119622.36 28119622.41 0.0135 0.0128

Uranus 72277-01-19 01:12 G 28119710.46 28119710.55 28119710.64 0.0135 0.0107

Uranus 72277-04-17 05:31 G 28119798.62 28119798.73 28119798.86 0.0135 0.0086

Uranus 72277-07-14 10:05 G 28119886.79 28119886.92 28119887.06 0.0135 0.0065

Uranus 72277-10-10 14:39 G 28119974.96 28119975.11 28119975.25 0.0135 0.0044

Uranus 72278-01-06 18:43 G 28120063.14 28120063.28 28120063.44 0.0135 0.0025

Uranus 72278-04-04 23:17 G 28120151.32 28120151.47 28120151.62 0.0135 0.0003

Uranus 72278-07-02 03:36 G 28120239.50 28120239.65 28120239.80 0.0135 0.0018

Uranus 72278-09-28 07:41 G 28120327.68 28120327.82 28120327.97 0.0135 0.0038

Venus 72278-12-24 00:15 G 28120414.39 28120414.51 28120414.63 0.3700 0.0234

Uranus 72278-12-25 12:00 G 28120415.87 28120416.00 28120416.14 0.0135 0.0058

Uranus 72279-03-23 16:05 G 28120504.06 28120504.17 28120504.30 0.0135 0.0079

Uranus 72279-06-19 20:24 G 28120592.25 28120592.35 28120592.46 0.0135 0.0098

Uranus 72279-09-16 00:29 G 28120680.46 28120680.52 28120680.60 0.0135 0.0118

Jupiter 72279-10-15 20:24 G 28120710.26 28120710.35 28120710.45 0.0486 0.0370

Jupiter 72280-01-13 09:07 G 28120799.76 28120799.88 28120800.01 0.0485 0.0281

Mars 72280-09-26 03:36 G 28121056.53 28121056.65 28121056.76 0.1820 0.0662

Mars 72281-08-11 18:29 G 28121376.17 28121376.27 28121376.37 0.1693 0.1208

Jupiter 72285-12-18 01:12 G 28122965.41 28122965.55 28122965.69 0.0542 0.0152

Earth 72286-09-09 18:29 G 28123231.15 28123231.27 28123231.39 0.2700 0.0771

Moon 72286-09-09 19:12 G 28123231.19 28123231.30 28123231.42 0.2696 0.0786 *

Earth 72289-03-09 10:48 G 28124142.83 28124142.95 28124143.08 0.2632 0.0984

Moon 72289-03-09 11:03 G 28124142.84 28124142.96 28124143.09 0.2626 0.1024 *

Saturn 72289-04-30 04:05 G 28124194.56 28124194.67 28124194.78 0.0280 0.0196

Saturn 72289-07-27 20:24 G 28124283.19 28124283.35 28124283.50 0.0280 0.0048

Saturn 72289-10-24 12:00 G 28124371.86 28124372.00 28124372.15 0.0279 0.0098

Saturn 72290-01-21 03:22 G 28124460.57 28124460.64 28124460.72 0.0279 0.0239

Mars 72290-02-16 11:03 G 28124486.90 28124486.96 28124487.03 0.1813 0.1516

Mars 72291-01-01 22:48 G 28124806.31 28124806.45 28124806.60 0.1698 0.0332

Venus 72291-08-04 14:24 G 28125021.00 28125021.10 28125021.19 0.3670 0.2236

Jupiter 72291-11-01 11:03 G 28125109.81 28125109.96 28125110.11 0.0486 0.0111

Venus 72297-02-17 10:48 G 28127044.85 28127044.95 28127045.06 0.3672 0.1669

Jupiter 72297-10-06 01:27 G 28127275.46 28127275.56 28127275.67 0.0542 0.0384

Jupiter 72298-01-03 20:39 G 28127365.30 28127365.36 28127365.41 0.0543 0.0502

Earth 72299-09-12 15:36 G 28127982.07 28127982.15 28127982.22 0.2699 0.2128

Moon 72299-09-12 15:51 G 28127982.09 28127982.16 28127982.23 0.2692 0.2227 *

Mars 72300-05-25 03:07 G 28128236.49 28128236.63 28128236.77 0.1704 0.0577

Mars 72301-06-15 13:41 G 28128622.98 28128623.07 28128623.16 0.1832 0.1277

Moon 72302-03-13 09:22 G 28128893.75 28128893.89 28128894.02 0.2626 0.0529

Earth 72302-03-13 09:51 G 28128893.78 28128893.91 28128894.04 0.2633 0.0493 *

Jupiter 72303-08-21 13:27 G 28129419.91 28129420.06 28129420.21 0.0486 0.0051

Saturn 72304-05-08 18:29 G 28129681.17 28129681.27 28129681.36 0.0279 0.0212

Saturn 72304-08-05 09:07 G 28129769.74 28129769.88 28129770.03 0.0280 0.0073

Saturn 72304-11-02 00:15 G 28129858.36 28129858.51 28129858.66 0.0280 0.0070

Saturn 72305-01-29 15:36 G 28129947.06 28129947.15 28129947.25 0.0280 0.0217

Earth 72306-09-06 05:03 G 28130531.62 28130531.71 28130531.80 0.2701 0.1811

Moon 72306-09-06 05:46 G 28130531.65 28130531.74 28130531.83 0.2705 0.1770 *

Mars 72309-10-15 06:43 G 28131666.71 28131666.78 28131666.84 0.1709 0.1538

Jupiter 72309-10-23 20:53 G 28131675.24 28131675.37 28131675.50 0.0543 0.0273

Mars 72310-11-05 20:24 G 28132053.23 28132053.35 28132053.47 0.1826 0.0332

Moon 72315-03-16 07:55 G 28133644.74 28133644.83 28133644.93 0.2632 0.1834

Earth 72315-03-16 09:07 G 28133644.79 28133644.88 28133644.96 0.2634 0.2023 *

Jupiter 72315-06-09 16:05 G 28133730.03 28133730.17 28133730.31 0.0486 0.0209

Jupiter 72315-09-07 05:03 G 28133819.66 28133819.71 28133819.77 0.0485 0.0450

Uranus 72317-11-05 03:36 G 28134609.62 28134609.65 28134609.71 0.0143 0.0138

Uranus 72318-02-01 09:07 G 28134697.79 28134697.88 28134697.99 0.0143 0.0112

Uranus 72318-04-30 14:39 G 28134785.99 28134786.11 28134786.24 0.0143 0.0087

Uranus 72318-07-27 20:10 G 28134874.20 28134874.34 28134874.49 0.0143 0.0062

Saturn 72318-09-18 06:00 G 28134926.67 28134926.75 28134926.85 0.0279 0.0229

Uranus 72318-10-24 01:41 G 28134962.42 28134962.57 28134962.73 0.0143 0.0036

Saturn 72318-12-15 22:19 G 28135015.28 28135015.43 28135015.58 0.0279 0.0080

Uranus 72319-01-20 07:12 G 28135050.64 28135050.80 28135050.96 0.0143 0.0011

Saturn 72319-03-14 14:10 G 28135103.94 28135104.09 28135104.24 0.0279 0.0066

Uranus 72319-04-18 12:43 G 28135138.88 28135139.03 28135139.20 0.0143 0.0016

Saturn 72319-06-11 05:46 G 28135192.64 28135192.74 28135192.84 0.0279 0.0208

Uranus 72319-07-15 18:29 G 28135227.11 28135227.27 28135227.43 0.0143 0.0041

Earth 72319-09-09 02:39 G 28135282.49 28135282.61 28135282.73 0.2700 0.0368

Moon 72319-09-09 03:36 G 28135282.53 28135282.65 28135282.77 0.2702 0.0294 *

Uranus 72319-10-12 00:00 G 28135315.36 28135315.50 28135315.65 0.0143 0.0068

Uranus 72320-01-08 05:31 G 28135403.62 28135403.73 28135403.87 0.0143 0.0094

Mars 72320-03-28 03:51 G 28135483.54 28135483.66 28135483.78 0.1820 0.0549

Uranus 72320-04-05 11:31 G 28135491.90 28135491.98 28135492.07 0.0143 0.0120

Mars 72321-02-10 18:58 G 28135803.20 28135803.29 28135803.38 0.1692 0.1329

Jupiter 72321-08-11 22:05 G 28135985.27 28135985.42 28135985.56 0.0543 0.0060

Earth 72322-03-08 17:46 G 28136194.16 28136194.24 28136194.31 0.2631 0.2133

Moon 72322-03-08 18:43 G 28136194.20 28136194.28 28136194.36 0.2627 0.2072 *

Jupiter 72327-03-28 18:29 G 28138040.18 28138040.27 28138040.37 0.0486 0.0369

Jupiter 72327-06-26 07:12 G 28138129.68 28138129.80 28138129.93 0.0485 0.0282

Mars 72329-08-18 11:03 G 28138913.89 28138913.96 28138914.04 0.1813 0.1412

Venus 72330-01-15 02:53 G 28139063.52 28139063.62 28139063.71 0.3701 0.2195

Mars 72330-07-03 23:31 G 28139233.33 28139233.48 28139233.62 0.1698 0.0460

Earth 72332-09-10 23:46 G 28140033.38 28140033.49 28140033.61 0.2700 0.1035

Moon 72332-09-11 00:29 G 28140033.41 28140033.52 28140033.63 0.2694 0.1157 *

Jupiter 72333-05-30 23:17 G 28140295.32 28140295.47 28140295.61 0.0543 0.0156

Saturn 72333-09-25 18:58 G 28140413.23 28140413.29 28140413.34 0.0279 0.0258

Saturn 72333-12-23 09:22 G 28140501.76 28140501.89 28140502.03 0.0280 0.0121

Saturn 72334-03-22 00:29 G 28140590.37 28140590.52 28140590.67 0.0280 0.0021

Saturn 72334-06-18 15:36 G 28140679.03 28140679.15 28140679.28 0.0280 0.0166

Moon 72335-03-11 16:19 G 28140945.05 28140945.18 28140945.31 0.2625 0.0651

Earth 72335-03-11 16:19 G 28140945.05 28140945.18 28140945.31 0.2632 0.0706 *

Venus 72335-07-31 22:48 G 28141087.34 28141087.45 28141087.56 0.3699 0.1602

Jupiter 72339-04-14 09:36 G 28142439.75 28142439.90 28142440.05 0.0485 0.0119

Mars 72339-11-24 03:22 G 28142663.50 28142663.64 28142663.79 0.1704 0.0458

Mars 72340-12-14 13:41 G 28143049.99 28143050.07 28143050.16 0.1832 0.1382

Jupiter 72345-03-18 23:46 G 28144605.39 28144605.49 28144605.60 0.0542 0.0378

Jupiter 72345-06-16 18:58 G 28144695.24 28144695.29 28144695.34 0.0543 0.0510

Moon 72345-09-13 20:53 G 28144784.31 28144784.37 28144784.43 0.2692 0.2324

Earth 72345-09-13 20:53 G 28144784.31 28144784.37 28144784.42 0.2699 0.2386 *

Neptune 72347-09-17 13:27 G 28145518.06 28145518.06 28145518.11 0.0088 0.0087

Neptune 72347-12-14 16:05 G 28145606.10 28145606.17 28145606.24 0.0088 0.0078

Saturn 72348-02-05 06:15 G 28145658.75 28145658.76 28145658.79 0.0280 0.0277

Venus 72348-03-11 12:58 G 28145693.92 28145694.04 28145694.16 0.3671 0.0836

Neptune 72348-03-11 18:00 G 28145694.17 28145694.25 28145694.36 0.0088 0.0070

Moon 72348-03-13 14:39 G 28145695.98 28145696.11 28145696.25 0.2627 0.0642

Earth 72348-03-13 15:22 G 28145696.01 28145696.14 28145696.27 0.2633 0.0778 *

Saturn 72348-05-03 22:48 G 28145747.31 28145747.45 28145747.59 0.0280 0.0126

Neptune 72348-06-07 20:10 G 28145782.24 28145782.34 28145782.46 0.0088 0.0062

Saturn 72348-07-31 14:53 G 28145835.96 28145836.12 28145836.27 0.0279 0.0022

Neptune 72348-09-03 22:34 G 28145870.32 28145870.44 28145870.57 0.0088 0.0053

Saturn 72348-10-28 06:15 G 28145924.64 28145924.76 28145924.89 0.0279 0.0166

Neptune 72348-12-01 00:29 G 28145958.39 28145958.52 28145958.67 0.0088 0.0045

Neptune 72349-02-27 02:39 G 28146046.48 28146046.61 28146046.77 0.0088 0.0037

Mars 72349-04-15 06:58 G 28146093.71 28146093.79 28146093.88 0.1710 0.1409

Neptune 72349-05-26 05:03 G 28146134.56 28146134.71 28146134.87 0.0088 0.0028

Neptune 72349-08-22 07:27 G 28146222.65 28146222.81 28146222.97 0.0088 0.0019

Neptune 72349-11-18 09:36 G 28146310.74 28146310.90 28146311.06 0.0088 0.0011

Neptune 72350-02-14 11:46 G 28146398.83 28146398.99 28146399.16 0.0088 0.0003

Mars 72350-05-06 20:39 G 28146480.24 28146480.36 28146480.48 0.1826 0.0450

Neptune 72350-05-13 14:10 G 28146486.93 28146487.09 28146487.25 0.0088 0.0007

Neptune 72350-08-09 16:19 G 28146575.02 28146575.18 28146575.34 0.0088 0.0015

Neptune 72350-11-05 18:29 G 28146663.12 28146663.27 28146663.43 0.0088 0.0024

Jupiter 72351-01-31 11:31 G 28146749.83 28146749.98 28146750.13 0.0486 0.0051

Neptune 72351-02-01 20:39 G 28146751.22 28146751.36 28146751.52 0.0088 0.0033

Neptune 72351-04-30 23:03 G 28146839.32 28146839.46 28146839.61 0.0088 0.0042

Neptune 72351-07-28 01:27 G 28146927.43 28146927.56 28146927.70 0.0088 0.0050

Neptune 72351-10-24 03:36 G 28147015.54 28147015.65 28147015.78 0.0088 0.0059

Neptune 72352-01-20 06:00 G 28147103.65 28147103.75 28147103.86 0.0088 0.0068

Neptune 72352-04-17 08:10 G 28147191.78 28147191.84 28147191.93 0.0088 0.0077

Neptune 72352-07-14 10:34 G 28147279.92 28147279.94 28147279.98 0.0088 0.0086

Earth 72352-09-06 10:19 G 28147333.83 28147333.93 28147334.04 0.2701 0.1539

Moon 72352-09-06 11:17 G 28147333.86 28147333.97 28147334.07 0.2705 0.1397 *

Venus 72353-09-25 09:36 G 28147717.84 28147717.90 28147717.97 0.3672 0.3118

Jupiter 72357-04-04 19:41 G 28149005.20 28149005.32 28149005.44 0.0543 0.0287

Mars 72359-09-27 03:36 G 28149910.53 28149910.65 28149910.77 0.1819 0.0453

Mars 72360-08-11 19:12 G 28150230.23 28150230.30 28150230.38 0.1693 0.1451

Uranus 72360-11-13 03:51 G 28150323.60 28150323.66 28150323.73 0.0135 0.0121

Uranus 72361-02-09 08:24 G 28150411.75 28150411.85 28150411.96 0.0135 0.0100

Moon 72361-03-16 13:27 G 28150446.99 28150447.06 28150447.12 0.2633 0.2275

Earth 72361-03-16 14:39 G 28150447.05 28150447.11 28150447.17 0.2634 0.2309 *

Uranus 72361-05-08 12:43 G 28150499.91 28150500.03 28150500.16 0.0135 0.0079

Uranus 72361-08-04 17:17 G 28150588.09 28150588.22 28150588.36 0.0135 0.0058

Uranus 72361-10-31 21:51 G 28150676.26 28150676.41 28150676.56 0.0135 0.0037

Uranus 72362-01-28 02:10 G 28150764.44 28150764.59 28150764.74 0.0135 0.0017

Uranus 72362-04-26 06:29 G 28150852.62 28150852.77 28150852.92 0.0135 0.0004

Uranus 72362-07-23 10:48 G 28150940.80 28150940.95 28150941.10 0.0135 0.0024

Uranus 72362-10-19 14:53 G 28151028.99 28151029.12 28151029.27 0.0135 0.0045

Jupiter 72362-11-19 13:55 G 28151059.95 28151060.08 28151060.22 0.0486 0.0211

Uranus 72363-01-15 19:12 G 28151117.17 28151117.30 28151117.44 0.0135 0.0065

Jupiter 72363-02-17 02:53 G 28151149.57 28151149.62 28151149.68 0.0485 0.0448

Uranus 72363-04-13 23:17 G 28151205.36 28151205.47 28151205.60 0.0135 0.0086

Saturn 72363-05-12 12:43 G 28151233.90 28151234.03 28151234.16 0.0279 0.0143

Uranus 72363-07-11 03:36 G 28151293.56 28151293.65 28151293.75 0.0135 0.0105

Saturn 72363-08-09 03:36 G 28151322.50 28151322.65 28151322.81 0.0280 0.0006

Uranus 72363-10-07 07:55 G 28151381.77 28151381.83 28151381.88 0.0135 0.0125

Saturn 72363-11-05 18:43 G 28151411.16 28151411.28 28151411.42 0.0280 0.0142

Earth 72365-09-09 07:55 G 28152084.70 28152084.83 28152084.95 0.2700 0.0110

Moon 72365-09-09 08:53 G 28152084.74 28152084.87 28152084.99 0.2700 0.0073 *

Earth 72368-03-08 23:17 G 28152996.38 28152996.47 28152996.56 0.2631 0.1859

Moon 72368-03-09 00:00 G 28152996.40 28152996.50 28152996.60 0.2627 0.1776 *

Jupiter 72369-01-21 19:41 G 28153315.17 28153315.32 28153315.47 0.0543 0.0049

Mars 72369-02-16 11:03 G 28153340.88 28153340.96 28153341.05 0.1814 0.1311

Mars 72370-01-02 00:00 G 28153660.36 28153660.50 28153660.64 0.1698 0.0588

Jupiter 72374-09-07 16:48 G 28155370.10 28155370.20 28155370.30 0.0486 0.0366

Jupiter 72374-12-06 05:17 G 28155459.60 28155459.72 28155459.85 0.0485 0.0286

Saturn 72377-09-21 01:12 G 28156479.42 28156479.55 28156479.68 0.0279 0.0154

Saturn 72377-12-18 17:17 G 28156568.07 28156568.22 28156568.38 0.0279 0.0008

Saturn 72378-03-17 09:07 G 28156656.74 28156656.88 28156657.01 0.0279 0.0137

Saturn 72378-06-14 00:15 G 28156745.50 28156745.51 28156745.53 0.0278 0.0276

Earth 72378-09-12 05:03 G 28156835.60 28156835.71 28156835.82 0.2699 0.1293

Moon 72378-09-12 05:46 G 28156835.63 28156835.74 28156835.85 0.2694 0.1319 *

Mars 72379-05-25 03:51 G 28157090.52 28157090.66 28157090.81 0.1704 0.0331

Mars 72380-06-14 13:55 G 28157477.01 28157477.08 28157477.15 0.1833 0.1495

Jupiter 72380-11-09 20:24 G 28157625.21 28157625.35 28157625.50 0.0543 0.0172

Moon 72381-03-11 21:51 G 28157747.28 28157747.41 28157747.54 0.2625 0.0468

Earth 72381-03-11 21:51 G 28157747.28 28157747.41 28157747.54 0.2632 0.0428 *

Moon 72385-09-04 18:15 G 28159385.24 28159385.26 28159385.29 0.2708 0.2642

Venus 72386-08-22 01:27 G 28159736.44 28159736.56 28159736.67 0.3700 0.0776

Jupiter 72386-09-24 07:27 G 28159769.67 28159769.81 28159769.97 0.0485 0.0121

Mars 72388-10-14 07:41 G 28160520.72 28160520.82 28160520.92 0.1710 0.1273

Mars 72389-11-04 20:39 G 28160907.24 28160907.36 28160907.48 0.1826 0.0556

Pluto 72391-09-12 15:36 G 28161584.09 28161584.15 28161584.23 0.0064 0.0057

Earth 72391-09-15 01:55 G 28161586.56 28161586.58 28161586.61 0.2699 0.2640

Moon 72391-09-15 01:55 G 28161586.57 28161586.58 28161586.59 0.2692 0.2675 *

Pluto 72391-12-09 16:05 G 28161672.08 28161672.17 28161672.30 0.0064 0.0047

Pluto 72392-03-06 17:03 G 28161760.09 28161760.21 28161760.35 0.0064 0.0036

Venus 72392-03-06 21:22 G 28161760.32 28161760.39 28161760.46 0.3699 0.2964 *

Pluto 72392-06-02 18:00 G 28161848.11 28161848.25 28161848.40 0.0064 0.0025

Jupiter 72392-08-28 21:22 G 28161935.29 28161935.39 28161935.50 0.0542 0.0388

Pluto 72392-08-29 18:43 G 28161936.14 28161936.28 28161936.44 0.0065 0.0014

Saturn 72392-09-28 13:12 G 28161965.95 28161966.05 28161966.17 0.0279 0.0189

Pluto 72392-11-25 19:41 G 28162024.17 28162024.32 28162024.48 0.0065 0.0003

Jupiter 72392-11-26 16:48 G 28162025.15 28162025.20 28162025.25 0.0544 0.0505

Saturn 72392-12-26 04:05 G 28162054.52 28162054.67 28162054.82 0.0280 0.0049

Pluto 72393-02-21 20:24 G 28162112.20 28162112.35 28162112.51 0.0065 0.0008

Saturn 72393-03-24 19:12 G 28162143.16 28162143.30 28162143.45 0.0280 0.0094

Pluto 72393-05-20 21:07 G 28162200.24 28162200.38 28162200.53 0.0065 0.0019

Saturn 72393-06-21 10:34 G 28162231.87 28162231.94 28162232.02 0.0280 0.0240

Pluto 72393-08-16 21:51 G 28162288.28 28162288.41 28162288.56 0.0065 0.0030

Pluto 72393-11-12 22:34 G 28162376.33 28162376.44 28162376.57 0.0065 0.0041

Pluto 72394-02-08 23:17 G 28162464.39 28162464.47 28162464.58 0.0065 0.0052

Moon 72394-03-14 19:55 G 28162498.21 28162498.33 28162498.46 0.2629 0.1047

Earth 72394-03-14 20:53 G 28162498.25 28162498.37 28162498.49 0.2633 0.1061 *

Pluto 72394-05-08 00:00 G 28162552.48 28162552.50 28162552.55 0.0065 0.0063

Jupiter 72398-07-13 10:05 G 28164079.76 28164079.92 28164080.07 0.0485 0.0043

Earth 72398-09-07 15:36 G 28164136.04 28164136.15 28164136.27 0.2701 0.1267

Moon 72398-09-07 16:34 G 28164136.08 28164136.19 28164136.30 0.2705 0.1240 *

Mars 72399-03-28 03:51 G 28164337.53 28164337.66 28164337.78 0.1820 0.0343

Venus 72399-04-02 15:22 G 28164343.08 28164343.14 28164343.19 0.3670 0.3229

Mars 72400-02-10 19:41 G 28164657.27 28164657.32 28164657.37 0.1693 0.1571

Uranus 72401-11-25 11:03 G 28165310.90 28165310.96 28165311.03 0.0143 0.0130

Uranus 72402-02-21 16:34 G 28165399.08 28165399.19 28165399.30 0.0143 0.0105

Uranus 72402-05-20 21:51 G 28165487.28 28165487.41 28165487.55 0.0143 0.0080

Uranus 72402-08-17 03:22 G 28165575.50 28165575.64 28165575.79 0.0143 0.0054

Uranus 72402-11-13 08:53 G 28165663.72 28165663.87 28165664.03 0.0143 0.0029

Uranus 72403-02-09 14:24 G 28165751.94 28165752.10 28165752.26 0.0143 0.0004

Uranus 72403-05-08 19:55 G 28165840.18 28165840.33 28165840.49 0.0143 0.0023

Uranus 72403-08-05 01:41 G 28165928.42 28165928.57 28165928.72 0.0143 0.0049

Uranus 72403-11-01 07:12 G 28166016.67 28166016.80 28166016.94 0.0143 0.0075

Uranus 72404-01-28 12:58 G 28166104.93 28166105.04 28166105.16 0.0143 0.0101

Uranus 72404-04-25 18:29 G 28166193.21 28166193.27 28166193.35 0.0143 0.0128

Jupiter 72404-09-14 18:00 G 28166335.13 28166335.25 28166335.37 0.0543 0.0292

Venus 72404-10-16 11:46 G 28166366.87 28166366.99 28166367.11 0.3671 0.0594

Saturn 72407-02-08 01:12 G 28167211.45 28167211.55 28167211.66 0.0280 0.0204

Moon 72407-03-17 19:12 G 28167249.24 28167249.30 28167249.35 0.2633 0.2401

Earth 72407-03-17 20:10 G 28167249.33 28167249.34 28167249.36 0.2634 0.2613 *

Saturn 72407-05-07 17:31 G 28167300.08 28167300.23 28167300.39 0.0279 0.0055

Saturn 72407-08-04 09:22 G 28167388.75 28167388.89 28167389.04 0.0279 0.0091

Saturn 72407-11-01 00:43 G 28167477.45 28167477.53 28167477.62 0.0279 0.0232

Mars 72408-08-17 11:17 G 28167767.87 28167767.97 28167768.06 0.1813 0.1207

Mars 72409-07-03 00:15 G 28168087.37 28168087.51 28168087.64 0.1698 0.0701

Jupiter 72410-05-01 12:00 G 28168389.87 28168390.00 28168390.14 0.0486 0.0211

Jupiter 72410-07-30 00:58 G 28168479.49 28168479.54 28168479.60 0.0485 0.0448

Earth 72411-09-10 13:12 G 28168886.92 28168887.05 28168887.17 0.2700 0.0170

Moon 72411-09-10 14:10 G 28168886.96 28168887.09 28168887.21 0.2698 0.0312 *

Earth 72414-03-10 04:48 G 28169798.59 28169798.70 28169798.80 0.2631 0.1589

Moon 72414-03-10 05:17 G 28169798.61 28169798.72 28169798.83 0.2626 0.1503 *

Jupiter 72416-07-03 18:29 G 28170645.13 28170645.27 28170645.42 0.0542 0.0067

Mars 72418-11-23 04:34 G 28171517.54 28171517.69 28171517.84 0.1704 0.0194

Mars 72419-12-14 13:55 G 28171904.02 28171904.08 28171904.14 0.1832 0.1594

Saturn 72422-02-15 16:19 G 28172698.09 28172698.18 28172698.28 0.0279 0.0213

Jupiter 72422-02-17 14:39 G 28172700.01 28172700.11 28172700.21 0.0486 0.0370

Saturn 72422-05-15 06:58 G 28172786.65 28172786.79 28172786.94 0.0280 0.0076

Jupiter 72422-05-18 03:07 G 28172789.51 28172789.63 28172789.76 0.0485 0.0283

Saturn 72422-08-11 22:05 G 28172875.28 28172875.42 28172875.57 0.0280 0.0068

Saturn 72422-11-08 13:27 G 28172963.97 28172964.06 28172964.16 0.0280 0.0213

Earth 72424-09-12 10:19 G 28173637.83 28173637.93 28173638.03 0.2699 0.1552

Moon 72424-09-12 11:03 G 28173637.86 28173637.96 28173638.05 0.2694 0.1634 *

Moon 72427-03-13 03:22 G 28174549.50 28174549.64 28174549.77 0.2625 0.0135

Earth 72427-03-13 03:22 G 28174549.51 28174549.64 28174549.78 0.2632 0.0161 *

Mars 72428-04-14 08:10 G 28174947.73 28174947.84 28174947.95 0.1709 0.1142

Jupiter 72428-04-21 18:15 G 28174955.12 28174955.26 28174955.40 0.0542 0.0178

Mars 72429-05-05 20:39 G 28175334.24 28175334.36 28175334.48 0.1826 0.0656

Neptune 72429-07-05 12:29 G 28175395.01 28175395.02 28175395.07 0.0090 0.0088

Neptune 72429-10-01 14:39 G 28175483.05 28175483.11 28175483.20 0.0090 0.0079

Neptune 72429-12-28 17:03 G 28175571.12 28175571.21 28175571.31 0.0090 0.0070

Neptune 72430-03-26 19:12 G 28175659.19 28175659.30 28175659.42 0.0090 0.0061

Neptune 72430-06-22 21:22 G 28175747.27 28175747.39 28175747.52 0.0090 0.0052

Neptune 72430-09-18 23:31 G 28175835.34 28175835.48 28175835.62 0.0090 0.0043

Neptune 72430-12-16 01:27 G 28175923.42 28175923.56 28175923.71 0.0090 0.0034

Neptune 72431-03-14 03:36 G 28176011.51 28176011.65 28176011.80 0.0090 0.0026

Neptune 72431-06-10 05:46 G 28176099.59 28176099.74 28176099.89 0.0090 0.0017

Earth 72431-09-05 23:31 G 28176187.43 28176187.48 28176187.53 0.2702 0.2458

Moon 72431-09-06 00:00 G 28176187.45 28176187.50 28176187.54 0.2708 0.2484 *

Neptune 72431-09-06 07:41 G 28176187.67 28176187.82 28176187.98 0.0090 0.0009

Neptune 72431-12-03 09:51 G 28176275.76 28176275.91 28176276.06 0.0090 0.0001

Neptune 72432-02-29 11:46 G 28176363.84 28176363.99 28176364.15 0.0090 0.0010

Neptune 72432-05-27 13:55 G 28176451.93 28176452.08 28176452.23 0.0090 0.0018

Neptune 72432-08-23 15:51 G 28176540.02 28176540.16 28176540.31 0.0090 0.0026

Neptune 72432-11-19 18:00 G 28176628.11 28176628.25 28176628.39 0.0090 0.0035

Neptune 72433-02-15 19:41 G 28176716.20 28176716.32 28176716.46 0.0090 0.0044

Neptune 72433-05-14 21:51 G 28176804.29 28176804.41 28176804.53 0.0090 0.0052

Neptune 72433-08-10 23:31 G 28176892.38 28176892.48 28176892.60 0.0090 0.0061

Neptune 72433-11-07 01:41 G 28176980.48 28176980.57 28176980.67 0.0090 0.0069

Neptune 72434-02-03 03:36 G 28177068.58 28177068.65 28177068.73 0.0090 0.0077

Jupiter 72434-03-06 05:46 G 28177099.59 28177099.74 28177099.89 0.0485 0.0122

Neptune 72434-05-02 05:17 G 28177156.69 28177156.72 28177156.78 0.0090 0.0086

Saturn 72436-06-27 03:51 G 28177943.58 28177943.66 28177943.76 0.0279 0.0230

Saturn 72436-09-23 20:24 G 28178032.20 28178032.35 28178032.50 0.0279 0.0080

Saturn 72436-12-21 12:15 G 28178120.86 28178121.01 28178121.16 0.0279 0.0065

Saturn 72437-03-20 03:51 G 28178209.56 28178209.66 28178209.76 0.0279 0.0207

Venus 72437-09-12 03:51 G 28178385.61 28178385.66 28178385.72 0.3701 0.3229

Mars 72438-09-26 03:51 G 28178764.54 28178764.66 28178764.79 0.1820 0.0235

Mars 72439-08-11 20:10 G 28179084.33 28179084.34 28179084.35 0.1693 0.1686

Jupiter 72440-02-08 18:43 G 28179265.18 28179265.28 28179265.38 0.0542 0.0403

Moon 72440-03-15 01:27 G 28179300.44 28179300.56 28179300.68 0.2630 0.1210

Earth 72440-03-15 02:24 G 28179300.49 28179300.60 28179300.72 0.2633 0.1357 *

Jupiter 72440-05-08 14:10 G 28179355.03 28179355.09 28179355.15 0.0544 0.0490

Venus 72443-03-29 00:00 G 28180409.38 28180409.50 28180409.62 0.3700 0.0635

Earth 72444-09-07 21:07 G 28180938.26 28180938.38 28180938.49 0.2701 0.0989

Moon 72444-09-07 21:51 G 28180938.30 28180938.41 28180938.53 0.2704 0.0828 *

Uranus 72444-12-03 11:03 G 28181024.89 28181024.96 28181025.05 0.0135 0.0114

Uranus 72445-03-01 15:36 G 28181113.05 28181113.15 28181113.27 0.0135 0.0093

Uranus 72445-05-28 20:10 G 28181201.21 28181201.34 28181201.47 0.0135 0.0072

Uranus 72445-08-25 00:29 G 28181289.38 28181289.52 28181289.67 0.0135 0.0051

Uranus 72445-11-21 05:03 G 28181377.56 28181377.71 28181377.86 0.0135 0.0030

Jupiter 72445-12-23 08:10 G 28181409.69 28181409.84 28181409.99 0.0485 0.0042

Uranus 72446-02-17 09:22 G 28181465.74 28181465.89 28181466.05 0.0135 0.0010

Uranus 72446-05-16 13:41 G 28181553.92 28181554.07 28181554.23 0.0135 0.0012

Uranus 72446-08-12 18:00 G 28181642.11 28181642.25 28181642.40 0.0135 0.0032

Uranus 72446-11-08 22:19 G 28181730.29 28181730.43 28181730.57 0.0135 0.0052

Uranus 72447-02-05 02:24 G 28181818.48 28181818.60 28181818.74 0.0135 0.0073

Moon 72447-03-08 12:43 G 28181850.00 28181850.03 28181850.06 0.2629 0.2543

Uranus 72447-05-04 06:43 G 28181906.68 28181906.78 28181906.89 0.0135 0.0092

Uranus 72447-07-31 10:48 G 28181994.88 28181994.95 28181995.04 0.0135 0.0113

Uranus 72447-10-27 14:53 G 28182083.10 28182083.12 28182083.16 0.0135 0.0133

Mars 72448-02-16 11:17 G 28182194.87 28182194.97 28182195.07 0.1813 0.1099

Mars 72449-01-01 00:43 G 28182514.40 28182514.53 28182514.66 0.1698 0.0828

Saturn 72451-07-05 17:03 G 28183430.16 28183430.21 28183430.28 0.0279 0.0257

Saturn 72451-10-02 07:41 G 28183518.69 28183518.82 28183518.96 0.0280 0.0120

Saturn 72451-12-29 22:48 G 28183607.29 28183607.45 28183607.60 0.0280 0.0023

Jupiter 72452-02-25 15:36 G 28183665.03 28183665.15 28183665.28 0.0543 0.0283

Saturn 72452-03-27 13:55 G 28183695.96 28183696.08 28183696.20 0.0280 0.0166

Venus 72455-11-07 13:55 G 28185015.98 28185016.08 28185016.18 0.3670 0.1853

Earth 72457-09-10 18:29 G 28185689.15 28185689.27 28185689.39 0.2700 0.0434

Moon 72457-09-10 19:27 G 28185689.18 28185689.31 28185689.43 0.2697 0.0476 *

Jupiter 72457-10-11 10:34 G 28185719.81 28185719.94 28185720.08 0.0486 0.0202

Jupiter 72458-01-08 23:31 G 28185809.43 28185809.48 28185809.53 0.0485 0.0456

Mars 72458-05-24 04:48 G 28185944.55 28185944.70 28185944.85 0.1704 0.0074

Mars 72459-06-14 14:10 G 28186331.04 28186331.09 28186331.13 0.1832 0.1707

Earth 72460-03-10 10:19 G 28186600.81 28186600.93 28186601.04 0.2631 0.1321

Moon 72460-03-10 10:34 G 28186600.83 28186600.94 28186601.06 0.2625 0.1332 *

Venus 72461-05-23 10:19 G 28187039.83 28187039.93 28187040.04 0.3671 0.2027

Jupiter 72463-12-14 16:48 G 28187975.05 28187975.20 28187975.35 0.0543 0.0070

Saturn 72466-02-10 20:24 G 28188764.21 28188764.35 28188764.49 0.0279 0.0131

Saturn 72466-05-10 12:15 G 28188852.86 28188853.01 28188853.17 0.0279 0.0018

Saturn 72466-08-07 03:51 G 28188941.54 28188941.66 28188941.79 0.0279 0.0160

Mars 72467-10-14 08:24 G 28189374.74 28189374.85 28189374.98 0.1710 0.1014

Mars 72468-11-03 20:53 G 28189761.25 28189761.37 28189761.48 0.1826 0.0767

Jupiter 72469-07-30 12:43 G 28190029.94 28190030.03 28190030.13 0.0486 0.0368

Jupiter 72469-10-28 01:12 G 28190119.43 28190119.55 28190119.68 0.0485 0.0284

Earth 72470-09-13 15:36 G 28190440.06 28190440.15 28190440.24 0.2699 0.1808

Moon 72470-09-13 16:05 G 28190440.08 28190440.17 28190440.26 0.2693 0.1853 *

Moon 72473-03-13 08:39 G 28191351.72 28191351.86 28191351.99 0.2626 0.0114

Earth 72473-03-13 08:53 G 28191351.74 28191351.87 28191352.00 0.2632 0.0139 *

Jupiter 72475-10-02 17:17 G 28192285.08 28192285.22 28192285.36 0.0542 0.0157

Earth 72477-09-06 04:48 G 28192989.63 28192989.70 28192989.77 0.2701 0.2181

Moon 72477-09-06 05:17 G 28192989.64 28192989.72 28192989.80 0.2708 0.2053 *

Mars 72478-03-27 03:51 G 28193191.53 28193191.66 28193191.79 0.1819 0.0136

Pluto 72480-08-28 21:07 G 28194077.30 28194077.38 28194077.46 0.0080 0.0068

Pluto 72480-11-24 22:48 G 28194165.32 28194165.45 28194165.58 0.0080 0.0046

Saturn 72481-02-18 10:19 G 28194250.81 28194250.93 28194251.06 0.0279 0.0148

Pluto 72481-02-21 00:29 G 28194253.37 28194253.52 28194253.68 0.0080 0.0025

Saturn 72481-05-18 01:12 G 28194339.40 28194339.55 28194339.71 0.0280 0.0010

Pluto 72481-05-20 02:10 G 28194341.44 28194341.59 28194341.76 0.0080 0.0005

Saturn 72481-08-14 16:19 G 28194428.05 28194428.18 28194428.32 0.0280 0.0136

Jupiter 72481-08-16 03:36 G 28194429.50 28194429.65 28194429.80 0.0486 0.0121

Pluto 72481-08-16 04:05 G 28194429.51 28194429.67 28194429.83 0.0080 0.0017 *

Pluto 72481-11-12 05:31 G 28194517.60 28194517.73 28194517.88 0.0079 0.0038

Pluto 72482-02-08 07:12 G 28194605.71 28194605.80 28194605.92 0.0079 0.0059

Uranus 72485-12-15 18:00 G 28196012.18 28196012.25 28196012.33 0.0143 0.0123

Uranus 72486-03-13 23:17 G 28196100.37 28196100.47 28196100.59 0.0143 0.0098

Moon 72486-03-16 06:58 G 28196102.69 28196102.79 28196102.90 0.2630 0.1573

Earth 72486-03-16 08:10 G 28196102.73 28196102.84 28196102.94 0.2633 0.1650 *

Uranus 72486-06-10 04:48 G 28196188.57 28196188.70 28196188.84 0.0143 0.0073

Uranus 72486-09-06 10:19 G 28196276.78 28196276.93 28196277.08 0.0143 0.0048

Uranus 72486-12-03 15:51 G 28196365.00 28196365.16 28196365.32 0.0143 0.0022

Uranus 72487-03-01 21:22 G 28196453.23 28196453.39 28196453.55 0.0143 0.0003

Uranus 72487-05-29 02:53 G 28196541.46 28196541.62 28196541.78 0.0143 0.0029

Jupiter 72487-07-21 16:34 G 28196595.10 28196595.19 28196595.29 0.0542 0.0407

Mars 72487-08-17 11:17 G 28196621.87 28196621.97 28196622.07 0.1814 0.1000

Uranus 72487-08-25 08:24 G 28196629.71 28196629.85 28196630.01 0.0143 0.0055

Jupiter 72487-10-19 12:00 G 28196684.94 28196685.00 28196685.07 0.0543 0.0485

Uranus 72487-11-21 14:10 G 28196717.96 28196718.09 28196718.23 0.0143 0.0081

Uranus 72488-02-17 19:41 G 28196806.22 28196806.32 28196806.44 0.0143 0.0108

Uranus 72488-05-16 01:27 G 28196894.52 28196894.56 28196894.62 0.0143 0.0134

Mars 72488-07-02 01:12 G 28196941.43 28196941.55 28196941.67 0.1698 0.0953

Earth 72490-09-09 02:24 G 28197740.48 28197740.60 28197740.72 0.2701 0.0716

Moon 72490-09-09 03:22 G 28197740.52 28197740.64 28197740.76 0.2702 0.0697 *

Earth 72493-03-08 17:17 G 28198652.17 28198652.22 28198652.26 0.2631 0.2457

Moon 72493-03-08 18:00 G 28198652.21 28198652.25 28198652.30 0.2628 0.2444 *

Jupiter 72493-06-04 06:29 G 28198739.61 28198739.77 28198739.92 0.0486 0.0039

Venus 72494-04-19 02:24 G 28199058.50 28199058.60 28199058.71 0.3701 0.1800

Saturn 72495-06-30 23:03 G 28199496.33 28199496.46 28199496.59 0.0279 0.0155

Saturn 72495-09-27 15:07 G 28199584.98 28199585.13 28199585.29 0.0279 0.0010

Saturn 72495-12-25 06:43 G 28199673.65 28199673.78 28199673.92 0.0279 0.0136

Saturn 72496-03-22 22:19 G 28199762.41 28199762.43 28199762.45 0.0278 0.0275

Mars 72497-11-22 05:17 G 28200371.57 28200371.72 28200371.87 0.1704 0.0061

Mars 72498-12-13 14:10 G 28200758.08 28200758.09 28200758.11 0.1833 0.1813

Jupiter 72499-08-07 13:12 G 28200994.92 28200995.05 28200995.17 0.0543 0.0270

Venus 72499-11-02 22:34 G 28201082.34 28201082.44 28201082.54 0.3700 0.2008

Earth 72503-09-12 23:46 G 28202491.37 28202491.49 28202491.61 0.2700 0.0701

Moon 72503-09-13 00:43 G 28202491.41 28202491.53 28202491.65 0.2697 0.0860 *

Jupiter 72505-03-24 08:53 G 28203049.73 28203049.87 28203050.01 0.0486 0.0198

Jupiter 72505-06-21 21:36 G 28203139.36 28203139.40 28203139.45 0.0485 0.0459

Earth 72506-03-12 15:36 G 28203403.03 28203403.15 28203403.27 0.2632 0.1048

Moon 72506-03-12 16:05 G 28203403.04 28203403.17 28203403.29 0.2625 0.0945 *

Mars 72507-04-15 09:07 G 28203801.75 28203801.88 28203802.01 0.1710 0.0880

Mars 72508-05-05 20:53 G 28204188.26 28204188.37 28204188.48 0.1826 0.0878

Saturn 72510-07-09 11:17 G 28204982.86 28204982.97 28204983.08 0.0280 0.0191

Saturn 72510-10-06 01:55 G 28205071.44 28205071.58 28205071.73 0.0280 0.0052

Saturn 72511-01-02 17:03 G 28205160.07 28205160.21 28205160.36 0.0280 0.0091

Saturn 72511-04-01 08:24 G 28205248.77 28205248.85 28205248.93 0.0280 0.0237

Jupiter 72511-05-27 14:24 G 28205304.95 28205305.10 28205305.25 0.0543 0.0059

Venus 72512-06-14 12:29 G 28205688.90 28205689.02 28205689.14 0.3670 0.0475

Neptune 72512-06-14 13:12 G 28205688.99 28205689.05 28205689.10 0.0088 0.0081 *

Neptune 72512-09-10 15:07 G 28205777.05 28205777.13 28205777.22 0.0088 0.0073

Neptune 72512-12-07 17:03 G 28205865.12 28205865.21 28205865.33 0.0088 0.0065

Neptune 72513-03-05 19:12 G 28205953.19 28205953.30 28205953.43 0.0088 0.0057

Neptune 72513-06-01 21:36 G 28206041.27 28206041.40 28206041.54 0.0088 0.0048

Neptune 72513-08-28 23:46 G 28206129.35 28206129.49 28206129.64 0.0088 0.0040

Neptune 72513-11-25 01:55 G 28206217.43 28206217.58 28206217.73 0.0088 0.0031

Neptune 72514-02-21 04:05 G 28206305.52 28206305.67 28206305.83 0.0088 0.0023

Neptune 72514-05-20 06:29 G 28206393.61 28206393.77 28206393.93 0.0088 0.0014

Neptune 72514-08-16 08:39 G 28206481.70 28206481.86 28206482.02 0.0088 0.0006

Neptune 72514-11-12 10:48 G 28206569.79 28206569.95 28206570.12 0.0088 0.0004

Neptune 72515-02-08 12:58 G 28206657.89 28206658.04 28206658.21 0.0088 0.0012

Neptune 72515-05-07 15:22 G 28206745.98 28206746.14 28206746.30 0.0088 0.0020

Neptune 72515-08-03 17:31 G 28206834.08 28206834.23 28206834.39 0.0088 0.0029

Neptune 72515-10-30 19:41 G 28206922.18 28206922.32 28206922.48 0.0088 0.0038

Neptune 72516-01-26 21:51 G 28207010.29 28207010.41 28207010.56 0.0088 0.0047

Neptune 72516-04-24 00:29 G 28207098.39 28207098.52 28207098.65 0.0088 0.0055

Neptune 72516-07-21 02:39 G 28207186.51 28207186.61 28207186.73 0.0088 0.0064

Earth 72516-09-14 20:53 G 28207242.29 28207242.37 28207242.45 0.2699 0.2069

Moon 72516-09-14 21:07 G 28207242.30 28207242.38 28207242.46 0.2693 0.2046 *

Neptune 72516-10-17 04:48 G 28207274.63 28207274.70 28207274.80 0.0088 0.0073

Jupiter 72517-01-10 11:31 G 28207359.88 28207359.98 28207360.08 0.0486 0.0356

Neptune 72517-01-13 07:12 G 28207362.75 28207362.80 28207362.87 0.0088 0.0082

Jupiter 72517-04-10 00:00 G 28207449.38 28207449.50 28207449.62 0.0485 0.0295

Mars 72517-09-26 03:51 G 28207618.54 28207618.66 28207618.79 0.1820 0.0050

Venus 72517-12-29 09:07 G 28207712.84 28207712.88 28207712.92 0.3672 0.3441

Moon 72519-03-15 13:55 G 28208153.95 28208154.08 28208154.21 0.2627 0.0325

Earth 72519-03-15 14:24 G 28208153.97 28208154.10 28208154.24 0.2632 0.0426 *

Jupiter 72523-03-15 15:36 G 28209615.00 28209615.15 28209615.29 0.0542 0.0155

Earth 72523-09-08 10:05 G 28209791.83 28209791.92 28209792.01 0.2702 0.1903

Moon 72523-09-08 10:48 G 28209791.86 28209791.95 28209792.03 0.2707 0.1903 *

Saturn 72524-11-17 22:34 G 28210228.34 28210228.44 28210228.55 0.0279 0.0209

Saturn 72525-02-14 14:53 G 28210316.97 28210317.12 28210317.28 0.0279 0.0060

Saturn 72525-05-14 06:43 G 28210405.64 28210405.78 28210405.93 0.0279 0.0085

Saturn 72525-08-10 22:05 G 28210494.34 28210494.42 28210494.52 0.0279 0.0227

Mars 72527-02-16 11:17 G 28211048.87 28211048.97 28211049.08 0.1813 0.0894

Mars 72528-01-02 01:27 G 28211368.45 28211368.56 28211368.68 0.1698 0.1071

Uranus 72528-09-27 13:55 G 28211638.03 28211638.08 28211638.12 0.0135 0.0128

Uranus 72528-12-24 18:15 G 28211726.17 28211726.26 28211726.36 0.0135 0.0107

Jupiter 72529-01-27 01:55 G 28211759.43 28211759.58 28211759.73 0.0485 0.0124

Uranus 72529-03-22 22:48 G 28211814.34 28211814.45 28211814.57 0.0135 0.0086

Uranus 72529-06-19 03:22 G 28211902.51 28211902.64 28211902.78 0.0135 0.0065

Uranus 72529-09-15 07:41 G 28211990.68 28211990.82 28211990.97 0.0135 0.0044

Uranus 72529-12-12 12:15 G 28212078.86 28212079.01 28212079.16 0.0135 0.0023

Uranus 72530-03-10 16:34 G 28212167.04 28212167.19 28212167.35 0.0135 0.0003

Uranus 72530-06-06 20:53 G 28212255.22 28212255.37 28212255.52 0.0135 0.0018

Uranus 72530-09-03 01:12 G 28212343.41 28212343.55 28212343.70 0.0135 0.0038

Uranus 72530-11-30 05:31 G 28212431.59 28212431.73 28212431.87 0.0135 0.0059

Uranus 72531-02-26 09:36 G 28212519.79 28212519.90 28212520.03 0.0135 0.0079

Uranus 72531-05-25 13:55 G 28212607.98 28212608.08 28212608.19 0.0135 0.0099

Uranus 72531-08-21 18:00 G 28212696.19 28212696.25 28212696.33 0.0135 0.0119

Moon 72532-03-17 12:29 G 28212904.93 28212905.02 28212905.12 0.2630 0.1812

Earth 72532-03-17 13:41 G 28212904.98 28212905.07 28212905.16 0.2633 0.1936 *

Jupiter 72535-01-01 15:51 G 28213925.06 28213925.16 28213925.27 0.0542 0.0383

Jupiter 72535-04-01 11:17 G 28214014.92 28214014.97 28214015.02 0.0543 0.0508

Mars 72536-07-08 18:43 G 28214479.25 28214479.28 28214479.32 0.1807 0.1735

Earth 72536-09-10 07:41 G 28214542.70 28214542.82 28214542.94 0.2701 0.0447

Moon 72536-09-10 08:39 G 28214542.74 28214542.86 28214542.99 0.2700 0.0269 *

Mars 72537-05-24 05:46 G 28214798.60 28214798.74 28214798.89 0.1704 0.0191

Earth 72539-03-10 22:34 G 28215454.37 28215454.44 28215454.52 0.2631 0.2192

Moon 72539-03-10 23:31 G 28215454.39 28215454.48 28215454.56 0.2626 0.2038 *

Saturn 72539-11-26 13:12 G 28215714.97 28215715.05 28215715.15 0.0279 0.0224

Saturn 72540-02-23 04:05 G 28215803.52 28215803.67 28215803.81 0.0280 0.0086

Saturn 72540-05-21 18:58 G 28215892.14 28215892.29 28215892.44 0.0280 0.0056

Saturn 72540-08-18 10:19 G 28215980.83 28215980.93 28215981.04 0.0280 0.0201

Jupiter 72540-11-15 04:19 G 28216069.53 28216069.68 28216069.83 0.0486 0.0038

Mars 72546-10-14 09:22 G 28218228.76 28218228.89 28218229.03 0.1710 0.0755

Jupiter 72547-01-18 11:03 G 28218324.84 28218324.96 28218325.09 0.0543 0.0268

Mars 72547-11-04 20:53 G 28218615.26 28218615.37 28218615.47 0.1826 0.0970

Earth 72549-09-13 05:03 G 28219293.60 28219293.71 28219293.83 0.2700 0.0964

Moon 72549-09-13 05:46 G 28219293.63 28219293.74 28219293.86 0.2696 0.0980 *

Venus 72550-11-25 01:12 G 28219731.43 28219731.55 28219731.67 0.3701 0.0372

Earth 72552-03-12 21:07 G 28220205.25 28220205.38 28220205.51 0.2632 0.0772

Moon 72552-03-12 21:22 G 28220205.26 28220205.39 28220205.52 0.2625 0.0819 *

Jupiter 72552-09-03 07:12 G 28220379.66 28220379.80 28220379.94 0.0486 0.0193

Jupiter 72552-12-01 19:55 G 28220469.30 28220469.33 28220469.38 0.0485 0.0466

Saturn 72554-04-07 01:27 G 28220960.48 28220960.56 28220960.65 0.0280 0.0233

Saturn 72554-07-04 17:46 G 28221049.10 28221049.24 28221049.40 0.0279 0.0084

Saturn 72554-10-01 09:51 G 28221137.76 28221137.91 28221138.06 0.0279 0.0062

Saturn 72554-12-29 01:12 G 28221226.45 28221226.55 28221226.66 0.0279 0.0204

Venus 72556-06-09 21:07 G 28221755.33 28221755.38 28221755.43 0.3700 0.3355

Mars 72557-03-27 04:05 G 28222045.55 28222045.67 28222045.80 0.1820 0.0084

Jupiter 72558-11-06 12:00 G 28222634.85 28222635.00 28222635.14 0.0543 0.0050

Earth 72562-09-16 02:10 G 28224044.53 28224044.59 28224044.65 0.2699 0.2324

Moon 72562-09-16 02:10 G 28224044.54 28224044.59 28224044.65 0.2692 0.2382 *

Venus 72563-07-06 14:53 G 28224338.05 28224338.12 28224338.19 0.3669 0.2857

Jupiter 72564-06-22 09:51 G 28224689.81 28224689.91 28224690.01 0.0486 0.0351

Jupiter 72564-09-19 22:19 G 28224779.31 28224779.43 28224779.55 0.0485 0.0300

Moon 72565-03-15 19:12 G 28224956.17 28224956.30 28224956.43 0.2627 0.0691

Earth 72565-03-15 19:55 G 28224956.20 28224956.33 28224956.46 0.2632 0.0703 *

Mars 72566-08-17 11:17 G 28225475.86 28225475.97 28225476.08 0.1813 0.0792

Mars 72567-07-03 01:55 G 28225795.48 28225795.58 28225795.69 0.1698 0.1194

Venus 72569-01-19 11:17 G 28226361.85 28226361.97 28226362.08 0.3671 0.0942

Saturn 72569-04-14 14:10 G 28226447.06 28226447.09 28226447.15 0.0279 0.0266

Saturn 72569-07-12 04:48 G 28226535.57 28226535.70 28226535.84 0.0280 0.0129

Earth 72569-09-08 15:22 G 28226594.04 28226594.14 28226594.24 0.2701 0.1628

Moon 72569-09-08 16:05 G 28226594.07 28226594.17 28226594.27 0.2706 0.1521 *

Saturn 72569-10-08 19:41 G 28226624.17 28226624.32 28226624.48 0.0280 0.0013

Uranus 72569-10-09 19:27 G 28226625.30 28226625.31 28226625.35 0.0143 0.0142

Saturn 72570-01-05 10:48 G 28226712.83 28226712.95 28226713.08 0.0280 0.0156

Uranus 72570-01-06 00:58 G 28226713.46 28226713.54 28226713.64 0.0143 0.0116

Uranus 72570-04-04 06:29 G 28226801.65 28226801.77 28226801.89 0.0143 0.0091

Uranus 72570-07-01 11:46 G 28226889.86 28226889.99 28226890.14 0.0143 0.0066

Jupiter 72570-08-25 12:58 G 28226944.90 28226945.04 28226945.19 0.0543 0.0167

Uranus 72570-09-27 17:17 G 28226978.07 28226978.22 28226978.38 0.0143 0.0041

Uranus 72570-12-24 22:48 G 28227066.29 28227066.45 28227066.61 0.0143 0.0016

Uranus 72571-03-23 04:19 G 28227154.52 28227154.68 28227154.84 0.0143 0.0010

Uranus 72571-06-19 09:51 G 28227242.76 28227242.91 28227243.07 0.0143 0.0036

Uranus 72571-09-15 15:22 G 28227331.00 28227331.14 28227331.29 0.0143 0.0062

Uranus 72571-12-12 21:07 G 28227419.26 28227419.38 28227419.51 0.0143 0.0088

Uranus 72572-03-10 02:39 G 28227507.53 28227507.61 28227507.72 0.0143 0.0115

Uranus 72572-06-06 08:24 G 28227595.84 28227595.85 28227595.88 0.0143 0.0141

Mars 72576-01-07 18:58 G 28228906.24 28228906.29 28228906.34 0.1807 0.1627

Jupiter 72576-07-09 00:43 G 28229089.38 28229089.53 28229089.68 0.0485 0.0137

Mars 72576-11-22 06:15 G 28229225.61 28229225.76 28229225.90 0.1704 0.0305

Moon 72578-03-18 18:15 G 28229707.18 28229707.26 28229707.34 0.2631 0.2111

Earth 72578-03-18 19:12 G 28229707.23 28229707.30 28229707.37 0.2633 0.2233 *

Jupiter 72582-06-13 14:10 G 28231254.98 28231255.09 28231255.20 0.0542 0.0380

Jupiter 72582-09-11 09:36 G 28231344.86 28231344.90 28231344.95 0.0544 0.0513

Earth 72582-09-11 12:58 G 28231344.92 28231345.04 28231345.17 0.2701 0.0183 *

Moon 72582-09-11 13:55 G 28231344.96 28231345.08 28231345.21 0.2700 0.0171 *

Saturn 72583-11-21 17:17 G 28231781.08 28231781.22 28231781.36 0.0279 0.0140

Saturn 72584-02-18 09:22 G 28231869.73 28231869.89 28231870.05 0.0279 0.0008

Saturn 72584-05-17 00:58 G 28231958.41 28231958.54 28231958.67 0.0279 0.0151

Earth 72585-03-11 04:05 G 28232256.58 28232256.67 28232256.76 0.2631 0.1923

Moon 72585-03-11 04:48 G 28232256.61 28232256.70 28232256.79 0.2625 0.1916 *

Mars 72586-04-14 09:51 G 28232655.78 28232655.91 28232656.05 0.1710 0.0626

Mars 72587-05-05 21:07 G 28233042.28 28233042.38 28233042.48 0.1826 0.1086

Jupiter 72588-04-27 02:53 G 28233399.46 28233399.62 28233399.77 0.0486 0.0033

Neptune 72594-04-02 11:46 G 28235565.94 28235565.99 28235566.06 0.0090 0.0083

Neptune 72594-06-29 13:55 G 28235654.01 28235654.08 28235654.18 0.0090 0.0074

Jupiter 72594-06-30 10:34 G 28235654.82 28235654.94 28235655.06 0.0543 0.0295

Neptune 72594-09-25 16:05 G 28235742.08 28235742.17 28235742.29 0.0090 0.0065

Neptune 72594-12-22 18:15 G 28235830.15 28235830.26 28235830.39 0.0090 0.0056

Neptune 72595-03-20 20:24 G 28235918.23 28235918.35 28235918.49 0.0090 0.0047

Neptune 72595-06-16 22:48 G 28236006.31 28236006.45 28236006.59 0.0090 0.0038

Mars 72595-09-04 13:27 G 28236086.01 28236086.06 28236086.12 0.1715 0.1579

Neptune 72595-09-13 00:43 G 28236094.39 28236094.53 28236094.68 0.0090 0.0029

Earth 72595-09-14 10:19 G 28236095.82 28236095.93 28236096.04 0.2700 0.1225

Moon 72595-09-14 11:03 G 28236095.85 28236095.96 28236096.06 0.2695 0.1363 *

Neptune 72595-12-10 02:53 G 28236182.47 28236182.62 28236182.77 0.0090 0.0020

Neptune 72596-03-07 05:03 G 28236270.56 28236270.71 28236270.86 0.0090 0.0012

Neptune 72596-06-03 06:58 G 28236358.64 28236358.79 28236358.95 0.0090 0.0004

Neptune 72596-08-30 09:07 G 28236446.73 28236446.88 28236447.03 0.0090 0.0006

Mars 72596-09-25 04:05 G 28236472.54 28236472.67 28236472.79 0.1819 0.0185

Neptune 72596-11-26 11:03 G 28236534.81 28236534.96 28236535.12 0.0090 0.0015

Neptune 72597-02-22 13:12 G 28236622.90 28236623.05 28236623.20 0.0090 0.0023

Neptune 72597-05-21 15:07 G 28236710.99 28236711.13 28236711.28 0.0090 0.0032

Neptune 72597-08-17 17:03 G 28236799.08 28236799.21 28236799.35 0.0090 0.0040

Neptune 72597-11-13 18:58 G 28236887.17 28236887.29 28236887.43 0.0090 0.0049

Neptune 72598-02-09 21:07 G 28236975.27 28236975.38 28236975.50 0.0090 0.0057

Moon 72598-03-14 02:39 G 28237007.48 28237007.61 28237007.74 0.2625 0.0418

Earth 72598-03-14 02:39 G 28237007.48 28237007.61 28237007.74 0.2632 0.0495 *

Neptune 72598-05-08 22:48 G 28237063.36 28237063.45 28237063.57 0.0090 0.0066

Neptune 72598-08-05 00:58 G 28237151.46 28237151.54 28237151.63 0.0090 0.0074

Neptune 72598-11-01 02:39 G 28237239.57 28237239.61 28237239.69 0.0090 0.0083

Saturn 72598-11-29 06:29 G 28237267.65 28237267.77 28237267.89 0.0280 0.0167

Saturn 72599-02-25 21:07 G 28237356.23 28237356.38 28237356.54 0.0280 0.0029

Saturn 72599-05-25 12:15 G 28237444.88 28237445.01 28237445.15 0.0280 0.0116

Saturn 72599-08-22 03:51 G 28237533.61 28237533.66 28237533.71 0.0280 0.0262

Jupiter 72600-02-14 05:31 G 28237709.59 28237709.73 28237709.87 0.0486 0.0190

Jupiter 72600-05-14 18:15 G 28237799.23 28237799.26 28237799.30 0.0485 0.0469

Venus 72601-12-17 03:36 G 28238380.57 28238380.65 28238380.72 0.3702 0.2856

Mars 72606-02-16 11:31 G 28239902.86 28239902.98 28239903.09 0.1813 0.0691

Jupiter 72606-04-19 10:05 G 28239964.78 28239964.92 28239965.07 0.0543 0.0052

Mars 72607-01-02 02:24 G 28240222.51 28240222.60 28240222.70 0.1698 0.1317

Venus 72607-07-02 23:46 G 28240404.37 28240404.49 28240404.60 0.3701 0.1007

Moon 72608-09-17 07:27 G 28240846.77 28240846.81 28240846.85 0.2692 0.2509

Earth 72608-09-17 07:12 G 28240846.77 28240846.80 28240846.84 0.2699 0.2582 *

Moon 72611-03-18 00:43 G 28241758.41 28241758.53 28241758.66 0.2627 0.0836

Earth 72611-03-18 01:41 G 28241758.44 28241758.57 28241758.69 0.2632 0.0993 *

Jupiter 72611-12-04 08:24 G 28242019.74 28242019.85 28242019.96 0.0487 0.0343

Jupiter 72612-03-02 20:53 G 28242109.25 28242109.37 28242109.49 0.0485 0.0309

Uranus 72612-10-18 20:39 G 28242339.31 28242339.36 28242339.44 0.0135 0.0122

Uranus 72613-01-15 01:27 G 28242427.46 28242427.56 28242427.67 0.0135 0.0100

Saturn 72613-04-10 19:55 G 28242513.21 28242513.33 28242513.46 0.0279 0.0164

Uranus 72613-04-13 06:00 G 28242515.63 28242515.75 28242515.88 0.0135 0.0079

Saturn 72613-07-08 12:15 G 28242601.85 28242602.01 28242602.16 0.0279 0.0017

Uranus 72613-07-10 10:34 G 28242603.80 28242603.94 28242604.08 0.0135 0.0058

Saturn 72613-10-05 03:51 G 28242690.53 28242690.66 28242690.80 0.0279 0.0127

Uranus 72613-10-06 15:07 G 28242691.98 28242692.13 28242692.27 0.0135 0.0037

Saturn 72614-01-01 19:12 G 28242779.27 28242779.30 28242779.35 0.0279 0.0267

Uranus 72614-01-02 19:27 G 28242780.16 28242780.31 28242780.46 0.0135 0.0016

Uranus 72614-03-31 23:46 G 28242868.34 28242868.49 28242868.64 0.0135 0.0004

Uranus 72614-06-28 04:05 G 28242956.52 28242956.67 28242956.82 0.0135 0.0025

Uranus 72614-09-24 08:24 G 28243044.71 28243044.85 28243045.00 0.0135 0.0045

Uranus 72614-12-21 12:43 G 28243132.90 28243133.03 28243133.16 0.0135 0.0066

Uranus 72615-03-19 17:03 G 28243221.09 28243221.21 28243221.32 0.0135 0.0086

Uranus 72615-06-15 20:53 G 28243309.29 28243309.37 28243309.48 0.0135 0.0107

Mars 72615-07-09 18:58 G 28243333.23 28243333.29 28243333.36 0.1807 0.1521

Earth 72615-09-10 20:53 G 28243396.26 28243396.37 28243396.47 0.2701 0.1351

Moon 72615-09-10 21:36 G 28243396.29 28243396.40 28243396.51 0.2704 0.1261 *

Uranus 72615-09-12 01:27 G 28243397.51 28243397.56 28243397.61 0.0135 0.0126

Mars 72616-05-24 06:43 G 28243652.63 28243652.78 28243652.92 0.1704 0.0430

Jupiter 72618-02-05 10:48 G 28244274.81 28244274.95 28244275.09 0.0542 0.0174

Venus 72620-02-11 13:27 G 28245010.95 28245011.06 28245011.17 0.3670 0.1490

Jupiter 72623-12-20 23:17 G 28246419.32 28246419.47 28246419.61 0.0485 0.0145

Moon 72624-03-19 23:46 G 28246509.44 28246509.49 28246509.53 0.2633 0.2456

Earth 72624-03-20 00:43 G 28246509.50 28246509.53 28246509.57 0.2633 0.2522 *

Venus 72625-08-27 09:51 G 28247034.82 28247034.91 28247035.00 0.3671 0.2351

Mars 72625-10-14 10:34 G 28247082.79 28247082.94 28247083.08 0.1710 0.0495

Mars 72626-11-04 21:07 G 28247469.28 28247469.38 28247469.47 0.1826 0.1190

Saturn 72628-04-18 07:27 G 28247999.71 28247999.81 28247999.91 0.0279 0.0208

Saturn 72628-07-15 22:05 G 28248088.27 28248088.42 28248088.57 0.0280 0.0070

Earth 72628-09-12 18:15 G 28248147.14 28248147.26 28248147.39 0.2700 0.0138

Moon 72628-09-12 19:27 G 28248147.18 28248147.31 28248147.43 0.2700 0.0269 *

Saturn 72628-10-12 12:58 G 28248176.90 28248177.04 28248177.19 0.0280 0.0071

Saturn 72629-01-09 04:19 G 28248265.59 28248265.68 28248265.78 0.0280 0.0216

Jupiter 72629-11-24 11:46 G 28248584.89 28248584.99 28248585.09 0.0542 0.0391

Jupiter 72630-02-22 07:12 G 28248674.75 28248674.80 28248674.86 0.0544 0.0505

Earth 72631-03-13 09:36 G 28249058.80 28249058.90 28249059.00 0.2631 0.1654

Moon 72631-03-13 10:19 G 28249058.82 28249058.93 28249059.03 0.2625 0.1531 *

Mars 72635-03-06 13:41 G 28250513.00 28250513.07 28250513.15 0.1716 0.1459

Jupiter 72635-10-09 01:41 G 28250729.42 28250729.57 28250729.73 0.0486 0.0020

Mars 72636-03-27 04:05 G 28250899.55 28250899.67 28250899.80 0.1820 0.0286

Pluto 72637-08-10 05:31 G 28251400.66 28251400.73 28251400.83 0.0064 0.0054

Pluto 72637-11-06 06:29 G 28251488.66 28251488.77 28251488.89 0.0064 0.0044

Pluto 72638-02-02 07:27 G 28251576.68 28251576.81 28251576.95 0.0064 0.0033

Pluto 72638-05-01 08:10 G 28251664.70 28251664.84 28251664.99 0.0064 0.0022

Pluto 72638-07-28 08:53 G 28251752.72 28251752.87 28251753.03 0.0065 0.0011

Pluto 72638-10-24 09:51 G 28251840.75 28251840.91 28251841.06 0.0065 0.0000

Pluto 72639-01-20 10:34 G 28251928.79 28251928.94 28251929.10 0.0065 0.0011

Pluto 72639-04-18 11:03 G 28252016.83 28252016.96 28252017.12 0.0065 0.0022

Pluto 72639-07-15 11:46 G 28252104.87 28252104.99 28252105.14 0.0065 0.0033

Pluto 72639-10-11 12:58 G 28252192.93 28252193.04 28252193.15 0.0065 0.0043

Pluto 72640-01-07 13:41 G 28252280.99 28252281.07 28252281.16 0.0065 0.0054

Earth 72641-09-15 15:36 G 28252898.05 28252898.15 28252898.25 0.2700 0.1486

Moon 72641-09-15 16:05 G 28252898.07 28252898.17 28252898.27 0.2694 0.1462 *

Jupiter 72641-12-11 08:53 G 28252984.75 28252984.87 28252984.99 0.0543 0.0300

Saturn 72642-08-28 18:58 G 28253245.20 28253245.29 28253245.39 0.0279 0.0222

Saturn 72642-11-25 11:31 G 28253333.82 28253333.98 28253334.13 0.0279 0.0073

Saturn 72643-02-22 03:22 G 28253422.49 28253422.64 28253422.79 0.0279 0.0072

Saturn 72643-05-21 18:58 G 28253511.19 28253511.29 28253511.39 0.0278 0.0214

Moon 72644-03-15 07:55 G 28253809.70 28253809.83 28253809.96 0.2626 0.0312

Earth 72644-03-15 08:10 G 28253809.71 28253809.84 28253809.97 0.2632 0.0220 *

Mars 72645-08-17 11:31 G 28254329.86 28254329.98 28254330.09 0.1813 0.0590

Mars 72646-07-03 02:53 G 28254649.54 28254649.62 28254649.69 0.1698 0.1429

Jupiter 72647-07-28 04:05 G 28255039.53 28255039.67 28255039.81 0.0486 0.0181

Jupiter 72647-10-25 16:48 G 28255129.18 28255129.20 28255129.22 0.0485 0.0477

Earth 72648-09-08 04:19 G 28255447.64 28255447.68 28255447.72 0.2702 0.2559

Moon 72648-09-08 04:34 G 28255447.65 28255447.69 28255447.74 0.2709 0.2483 *

Jupiter 72653-09-29 09:51 G 28257294.76 28257294.91 28257295.05 0.0543 0.0082

Uranus 72653-10-31 02:39 G 28257326.57 28257326.61 28257326.68 0.0143 0.0134

Uranus 72654-01-27 08:10 G 28257414.74 28257414.84 28257414.94 0.0143 0.0109

Uranus 72654-04-25 13:27 G 28257502.94 28257503.06 28257503.19 0.0143 0.0085

Uranus 72654-07-22 18:58 G 28257591.15 28257591.29 28257591.44 0.0143 0.0059

Uranus 72654-10-19 00:29 G 28257679.36 28257679.52 28257679.67 0.0143 0.0034

Mars 72655-01-07 18:58 G 28257760.21 28257760.29 28257760.36 0.1807 0.1431

Uranus 72655-01-15 05:46 G 28257767.59 28257767.74 28257767.91 0.0143 0.0010

Uranus 72655-04-13 11:17 G 28257855.82 28257855.97 28257856.13 0.0143 0.0018

Uranus 72655-07-10 16:48 G 28257944.05 28257944.20 28257944.36 0.0143 0.0043

Uranus 72655-10-06 22:34 G 28258032.30 28258032.44 28258032.58 0.0143 0.0069

Mars 72655-11-23 07:12 G 28258079.66 28258079.80 28258079.94 0.1704 0.0562

Uranus 72656-01-03 04:05 G 28258120.56 28258120.67 28258120.80 0.0143 0.0095

Uranus 72656-03-31 09:36 G 28258208.83 28258208.90 28258209.00 0.0143 0.0122

Moon 72657-03-18 06:15 G 28258560.65 28258560.76 28258560.88 0.2628 0.1273

Earth 72657-03-18 07:12 G 28258560.68 28258560.80 28258560.91 0.2633 0.1276 *

Saturn 72657-09-05 08:24 G 28258731.79 28258731.85 28258731.92 0.0279 0.0251

Saturn 72657-12-02 23:03 G 28258820.32 28258820.46 28258820.60 0.0280 0.0114

Saturn 72658-03-01 13:55 G 28258908.93 28258909.08 28258909.23 0.0280 0.0027

Saturn 72658-05-29 05:03 G 28258997.59 28258997.71 28258997.84 0.0280 0.0171

Venus 72658-07-24 02:10 G 28259053.48 28259053.59 28259053.70 0.3702 0.1423

Jupiter 72659-05-16 06:43 G 28259349.67 28259349.78 28259349.89 0.0486 0.0338

Jupiter 72659-08-13 19:12 G 28259439.18 28259439.30 28259439.42 0.0485 0.0314

Earth 72661-09-11 02:10 G 28260198.47 28260198.59 28260198.70 0.2701 0.1077

Moon 72661-09-11 03:07 G 28260198.51 28260198.63 28260198.74 0.2703 0.1002 *

Venus 72664-02-06 22:19 G 28261077.34 28261077.43 28261077.52 0.3700 0.2388

Mars 72665-04-14 10:48 G 28261509.81 28261509.95 28261510.10 0.1710 0.0370

Jupiter 72665-07-18 09:07 G 28261604.74 28261604.88 28261605.03 0.0542 0.0167

Mars 72666-05-05 21:07 G 28261896.29 28261896.38 28261896.47 0.1826 0.1289

Moon 72670-03-21 05:17 G 28263311.72 28263311.72 28263311.72 0.2635 0.2632

Jupiter 72671-06-01 21:51 G 28263749.27 28263749.41 28263749.56 0.0486 0.0156

Saturn 72672-01-15 21:22 G 28263977.33 28263977.39 28263977.47 0.0280 0.0250

Saturn 72672-04-13 13:55 G 28264065.93 28264066.08 28264066.23 0.0279 0.0100

Saturn 72672-07-11 06:00 G 28264154.60 28264154.75 28264154.90 0.0279 0.0046

Saturn 72672-10-07 21:36 G 28264243.29 28264243.40 28264243.51 0.0279 0.0188

Mars 72674-09-04 14:24 G 28264940.00 28264940.10 28264940.19 0.1716 0.1324

Earth 72674-09-13 23:46 G 28264949.36 28264949.49 28264949.61 0.2700 0.0368

Moon 72674-09-14 00:29 G 28264949.40 28264949.52 28264949.65 0.2699 0.0433 *

Mars 72675-09-26 04:19 G 28265326.55 28265326.68 28265326.80 0.1820 0.0395

Venus 72676-09-17 12:15 G 28265683.88 28265684.01 28265684.13 0.3670 0.0158

Neptune 72676-12-14 10:05 G 28265771.88 28265771.92 28265771.97 0.0088 0.0084

Neptune 72677-03-12 12:00 G 28265859.94 28265860.00 28265860.09 0.0088 0.0076

Earth 72677-03-13 15:07 G 28265861.01 28265861.13 28265861.24 0.2631 0.1384

Moon 72677-03-13 15:36 G 28265861.04 28265861.15 28265861.26 0.2626 0.1359 *

Jupiter 72677-05-06 09:36 G 28265914.80 28265914.90 28265915.00 0.0542 0.0394

Neptune 72677-06-08 14:10 G 28265948.00 28265948.09 28265948.20 0.0088 0.0068

Jupiter 72677-08-04 05:17 G 28266004.66 28266004.72 28266004.77 0.0543 0.0501

Neptune 72677-09-04 16:19 G 28266036.07 28266036.18 28266036.31 0.0088 0.0060

Neptune 72677-12-01 18:43 G 28266124.15 28266124.28 28266124.41 0.0088 0.0051

Neptune 72678-02-27 20:39 G 28266212.23 28266212.36 28266212.51 0.0088 0.0043

Neptune 72678-05-26 23:03 G 28266300.31 28266300.46 28266300.61 0.0088 0.0034

Neptune 72678-08-23 01:12 G 28266388.40 28266388.55 28266388.70 0.0088 0.0026

Neptune 72678-11-19 03:22 G 28266476.48 28266476.64 28266476.80 0.0088 0.0017

Neptune 72679-02-15 05:31 G 28266564.57 28266564.73 28266564.89 0.0088 0.0009

Neptune 72679-05-14 07:41 G 28266652.66 28266652.82 28266652.99 0.0088 0.0002

Neptune 72679-08-10 09:51 G 28266740.76 28266740.91 28266741.08 0.0088 0.0009

Neptune 72679-11-06 12:15 G 28266828.85 28266829.01 28266829.17 0.0088 0.0017

Neptune 72680-02-02 14:24 G 28266916.95 28266917.10 28266917.26 0.0088 0.0026

Neptune 72680-04-30 16:48 G 28267005.05 28267005.20 28267005.35 0.0088 0.0034

Neptune 72680-07-27 18:43 G 28267093.15 28267093.28 28267093.43 0.0088 0.0043

Neptune 72680-10-23 20:53 G 28267181.25 28267181.37 28267181.52 0.0088 0.0052

Neptune 72681-01-19 23:17 G 28267269.36 28267269.47 28267269.60 0.0088 0.0061

Neptune 72681-04-18 01:41 G 28267357.48 28267357.57 28267357.68 0.0088 0.0069

Neptune 72681-07-15 04:05 G 28267445.60 28267445.67 28267445.75 0.0088 0.0078

Neptune 72681-10-11 06:15 G 28267533.75 28267533.76 28267533.79 0.0088 0.0087

Jupiter 72683-03-21 00:29 G 28268059.36 28268059.52 28268059.67 0.0486 0.0014

Mars 72685-02-15 11:31 G 28268756.86 28268756.98 28268757.10 0.1813 0.0483

Mars 72686-01-01 03:22 G 28269076.58 28269076.64 28269076.69 0.1698 0.1554

Saturn 72687-04-22 00:00 G 28269552.38 28269552.50 28269552.63 0.0280 0.0155

Saturn 72687-07-19 14:53 G 28269640.97 28269641.12 28269641.27 0.0280 0.0016

Earth 72687-09-16 20:53 G 28269700.28 28269700.37 28269700.46 0.2700 0.1746

Moon 72687-09-16 21:22 G 28269700.30 28269700.39 28269700.48 0.2693 0.1847 *

Saturn 72687-10-16 06:00 G 28269729.61 28269729.75 28269729.88 0.0280 0.0127

Saturn 72688-01-12 21:22 G 28269818.36 28269818.39 28269818.42 0.0280 0.0274

Jupiter 72689-05-23 06:29 G 28270314.65 28270314.77 28270314.90 0.0543 0.0293

Moon 72690-03-16 13:12 G 28270611.92 28270612.05 28270612.19 0.2626 0.0113

Earth 72690-03-16 13:41 G 28270611.94 28270612.07 28270612.20 0.2632 0.0069 *

Mars 72694-07-08 18:58 G 28272187.21 28272187.29 28272187.38 0.1807 0.1324

Earth 72694-09-09 09:36 G 28272249.84 28272249.90 28272249.97 0.2702 0.2279

Moon 72694-09-09 10:05 G 28272249.86 28272249.92 28272249.99 0.2708 0.2301 *

Jupiter 72695-01-07 03:07 G 28272369.49 28272369.63 28272369.77 0.0486 0.0163

Mars 72695-05-24 07:27 G 28272506.68 28272506.81 28272506.95 0.1704 0.0674

Uranus 72696-11-08 03:51 G 28273040.59 28273040.66 28273040.75 0.0135 0.0116

Uranus 72697-02-04 08:39 G 28273128.75 28273128.86 28273128.97 0.0135 0.0094

Uranus 72697-05-03 12:58 G 28273216.92 28273217.04 28273217.17 0.0135 0.0073

Uranus 72697-07-30 17:31 G 28273305.09 28273305.23 28273305.37 0.0135 0.0052

Uranus 72697-10-26 22:05 G 28273393.27 28273393.42 28273393.57 0.0135 0.0031

Uranus 72698-01-23 02:24 G 28273481.45 28273481.60 28273481.76 0.0135 0.0011

Uranus 72698-04-21 06:43 G 28273569.63 28273569.78 28273569.94 0.0135 0.0011

Uranus 72698-07-18 11:03 G 28273657.82 28273657.96 28273658.11 0.0135 0.0031

Uranus 72698-10-14 15:22 G 28273746.01 28273746.14 28273746.29 0.0135 0.0052

Uranus 72699-01-10 19:55 G 28273834.20 28273834.33 28273834.45 0.0135 0.0072

Uranus 72699-04-08 23:46 G 28273922.39 28273922.49 28273922.61 0.0135 0.0093

Uranus 72699-07-06 04:05 G 28274010.60 28274010.67 28274010.76 0.0135 0.0112

Uranus 72699-10-02 08:10 G 28274098.83 28274098.84 28274098.88 0.0135 0.0133

Jupiter 72701-03-12 08:10 G 28274624.69 28274624.84 28274624.98 0.0543 0.0087

Saturn 72701-09-01 12:58 G 28274797.91 28274798.04 28274798.17 0.0279 0.0158

Saturn 72701-11-29 05:17 G 28274886.56 28274886.72 28274886.87 0.0279 0.0013

Saturn 72702-02-25 20:53 G 28274975.24 28274975.37 28274975.51 0.0278 0.0133

Saturn 72702-05-25 12:15 G 28275063.99 28275064.01 28275064.05 0.0278 0.0272

Moon 72703-03-20 11:46 G 28275362.88 28275362.99 28275363.10 0.2629 0.1387

Earth 72703-03-20 12:43 G 28275362.92 28275363.03 28275363.13 0.2633 0.1563 *

Mars 72704-10-14 11:17 G 28275936.83 28275936.97 28275937.12 0.1710 0.0243

Mars 72705-11-04 21:07 G 28276323.30 28276323.38 28276323.46 0.1826 0.1395

Jupiter 72706-10-27 05:31 G 28276679.62 28276679.73 28276679.84 0.0486 0.0327

Jupiter 72707-01-24 17:46 G 28276769.13 28276769.24 28276769.36 0.0485 0.0325

Earth 72707-09-13 07:27 G 28277000.69 28277000.81 28277000.93 0.2701 0.0803

Moon 72707-09-13 08:24 G 28277000.73 28277000.85 28277000.97 0.2703 0.0657 *

Earth 72710-03-12 22:05 G 28277912.39 28277912.42 28277912.46 0.2630 0.2509

Moon 72710-03-12 23:03 G 28277912.41 28277912.46 28277912.52 0.2627 0.2369 *

Jupiter 72712-12-29 08:53 G 28278934.73 28278934.87 28278935.02 0.0542 0.0134

Mars 72714-03-06 14:53 G 28279367.01 28279367.12 28279367.23 0.1715 0.1186

Venus 72715-03-01 00:58 G 28279726.42 28279726.54 28279726.66 0.3701 0.0133

Mars 72715-03-28 04:05 G 28279753.55 28279753.67 28279753.79 0.1819 0.0489

Saturn 72716-09-09 00:29 G 28280284.42 28280284.52 28280284.62 0.0279 0.0203

Saturn 72716-12-06 15:07 G 28280372.98 28280373.13 28280373.28 0.0280 0.0065

Saturn 72717-03-05 06:15 G 28280461.61 28280461.76 28280461.90 0.0280 0.0077

Saturn 72717-06-01 21:22 G 28280550.30 28280550.39 28280550.49 0.0280 0.0223

Jupiter 72718-08-15 08:24 G 28280989.83 28280989.85 28280989.87 0.0487 0.0481

Jupiter 72718-11-12 20:24 G 28281079.21 28281079.35 28281079.49 0.0485 0.0165

Earth 72720-09-15 05:03 G 28281751.58 28281751.71 28281751.83 0.2700 0.0632

Moon 72720-09-15 05:46 G 28281751.62 28281751.74 28281751.86 0.2697 0.0710 *

Earth 72723-03-15 20:24 G 28282663.24 28282663.35 28282663.47 0.2631 0.1111

Moon 72723-03-15 20:53 G 28282663.25 28282663.37 28282663.49 0.2625 0.1067 *

Mars 72724-08-17 11:31 G 28283183.86 28283183.98 28283184.10 0.1813 0.0382

Jupiter 72724-10-17 08:10 G 28283244.74 28283244.84 28283244.95 0.0542 0.0383

Jupiter 72725-01-15 03:51 G 28283334.62 28283334.66 28283334.71 0.0543 0.0511

Mars 72725-07-03 03:36 G 28283503.63 28283503.65 28283503.68 0.1698 0.1673

Pluto 72726-07-28 10:48 G 28283893.87 28283893.95 28283894.06 0.0080 0.0065

Pluto 72726-10-24 12:43 G 28283981.90 28283982.03 28283982.17 0.0080 0.0043

Pluto 72727-01-20 14:24 G 28284069.95 28284070.10 28284070.26 0.0080 0.0022

Pluto 72727-04-18 16:19 G 28284158.02 28284158.18 28284158.34 0.0080 0.0001

Pluto 72727-07-15 17:46 G 28284246.10 28284246.24 28284246.41 0.0080 0.0021

Venus 72727-10-10 14:39 G 28284333.02 28284333.11 28284333.19 0.3669 0.2473

Pluto 72727-10-11 19:27 G 28284334.19 28284334.31 28284334.46 0.0079 0.0042

Pluto 72728-01-07 21:07 G 28284422.30 28284422.38 28284422.49 0.0079 0.0062

Jupiter 72730-08-31 23:03 G 28285389.31 28285389.46 28285389.62 0.0486 0.0017

Saturn 72731-01-19 15:07 G 28285530.02 28285530.13 28285530.25 0.0280 0.0188

Saturn 72731-04-18 07:27 G 28285618.66 28285618.81 28285618.97 0.0279 0.0040

Saturn 72731-07-15 23:31 G 28285707.33 28285707.48 28285707.62 0.0279 0.0106

Saturn 72731-10-12 14:53 G 28285796.05 28285796.12 28285796.19 0.0279 0.0247

Venus 72733-04-25 10:48 G 28286356.83 28286356.95 28286357.06 0.3670 0.1301

Earth 72733-09-18 02:10 G 28286502.51 28286502.59 28286502.67 0.2700 0.2005

Moon 72733-09-18 02:24 G 28286502.52 28286502.60 28286502.69 0.2693 0.1989 *

Mars 72734-01-07 19:12 G 28286614.21 28286614.30 28286614.39 0.1807 0.1220

Mars 72734-11-23 07:55 G 28286933.70 28286933.83 28286933.96 0.1704 0.0800

Moon 72736-03-17 18:43 G 28287414.15 28287414.28 28287414.42 0.2626 0.0258

Earth 72736-03-17 19:12 G 28287414.17 28287414.30 28287414.43 0.2632 0.0347 *

Jupiter 72736-11-03 04:48 G 28287644.58 28287644.70 28287644.82 0.0543 0.0293

Uranus 72737-11-21 09:51 G 28288027.85 28288027.91 28288027.99 0.0143 0.0127

Uranus 72738-02-17 15:22 G 28288116.03 28288116.14 28288116.25 0.0143 0.0102

Uranus 72738-05-16 20:39 G 28288204.23 28288204.36 28288204.50 0.0143 0.0077

Uranus 72738-08-13 02:10 G 28288292.44 28288292.59 28288292.74 0.0143 0.0052

Uranus 72738-11-09 07:27 G 28288380.66 28288380.81 28288380.97 0.0143 0.0027

Uranus 72739-02-05 12:58 G 28288468.88 28288469.04 28288469.20 0.0143 0.0003

Uranus 72739-05-04 18:29 G 28288557.11 28288557.27 28288557.43 0.0143 0.0024

Uranus 72739-08-01 00:00 G 28288645.35 28288645.50 28288645.66 0.0143 0.0050

Uranus 72739-10-28 05:46 G 28288733.60 28288733.74 28288733.88 0.0143 0.0076

Uranus 72740-01-24 11:03 G 28288821.86 28288821.96 28288822.09 0.0143 0.0103

Uranus 72740-04-21 16:48 G 28288910.14 28288910.20 28288910.28 0.0143 0.0129

Earth 72740-09-10 15:07 G 28289052.05 28289052.13 28289052.21 0.2702 0.1997

Moon 72740-09-10 15:51 G 28289052.07 28289052.16 28289052.25 0.2706 0.1849 *

Jupiter 72742-06-20 01:41 G 28289699.43 28289699.57 28289699.72 0.0486 0.0152

Mars 72744-04-14 11:46 G 28290363.84 28290363.99 28290364.14 0.1710 0.0117

Mars 72745-05-05 21:22 G 28290750.32 28290750.39 28290750.46 0.1826 0.1505

Saturn 72746-01-27 01:41 G 28291016.51 28291016.57 28291016.65 0.0279 0.0242

Saturn 72746-04-25 16:19 G 28291105.04 28291105.18 28291105.32 0.0280 0.0105

Saturn 72746-07-23 07:12 G 28291193.65 28291193.80 28291193.95 0.0280 0.0036

Saturn 72746-10-19 22:19 G 28291282.32 28291282.43 28291282.55 0.0280 0.0180

Jupiter 72748-08-22 06:00 G 28291954.60 28291954.75 28291954.89 0.0543 0.0082

Moon 72749-03-20 17:03 G 28292165.12 28292165.21 28292165.31 0.2631 0.1818

Earth 72749-03-20 18:15 G 28292165.17 28292165.26 28292165.35 0.2633 0.1854 *

Mars 72753-09-04 15:07 G 28293794.02 28293794.13 28293794.25 0.1716 0.1069

Earth 72753-09-13 12:43 G 28293802.91 28293803.03 28293803.16 0.2701 0.0535

Moon 72753-09-13 13:41 G 28293802.95 28293803.07 28293803.20 0.2703 0.0491 *

Jupiter 72754-04-08 04:34 G 28294009.58 28294009.69 28294009.81 0.0486 0.0308

Jupiter 72754-07-06 17:03 G 28294099.10 28294099.21 28294099.32 0.0485 0.0345

Mars 72754-09-26 04:19 G 28294180.56 28294180.68 28294180.80 0.1819 0.0593

Earth 72756-03-13 03:36 G 28294714.58 28294714.65 28294714.71 0.2631 0.2245

Moon 72756-03-13 04:34 G 28294714.62 28294714.69 28294714.76 0.2627 0.2207 *

Neptune 72758-10-03 09:07 G 28295648.84 28295648.88 28295648.92 0.0090 0.0086

Neptune 72758-12-30 11:17 G 28295736.90 28295736.97 28295737.05 0.0090 0.0077

Neptune 72759-03-28 13:27 G 28295824.96 28295825.06 28295825.16 0.0090 0.0068

Neptune 72759-06-24 15:22 G 28295913.04 28295913.14 28295913.27 0.0090 0.0059

Neptune 72759-09-20 17:31 G 28296001.11 28296001.23 28296001.37 0.0090 0.0051

Neptune 72759-12-17 19:41 G 28296089.19 28296089.32 28296089.47 0.0090 0.0042

Neptune 72760-03-14 21:51 G 28296177.27 28296177.41 28296177.56 0.0090 0.0033

Saturn 72760-06-07 13:55 G 28296262.02 28296262.08 28296262.16 0.0279 0.0247

Jupiter 72760-06-10 07:12 G 28296264.66 28296264.80 28296264.95 0.0543 0.0129

Neptune 72760-06-11 00:00 G 28296265.36 28296265.50 28296265.66 0.0090 0.0024

Saturn 72760-09-04 06:29 G 28296350.63 28296350.77 28296350.92 0.0279 0.0097

Neptune 72760-09-07 02:10 G 28296353.44 28296353.59 28296353.75 0.0090 0.0015

Saturn 72760-12-01 22:34 G 28296439.29 28296439.44 28296439.60 0.0279 0.0049

Neptune 72760-12-04 04:19 G 28296441.53 28296441.68 28296441.83 0.0090 0.0006

Saturn 72761-02-28 14:24 G 28296527.98 28296528.10 28296528.21 0.0278 0.0191

Neptune 72761-03-02 06:29 G 28296529.61 28296529.77 28296529.92 0.0090 0.0003

Neptune 72761-05-29 08:24 G 28296617.70 28296617.85 28296618.00 0.0090 0.0011

Neptune 72761-08-25 10:34 G 28296705.79 28296705.94 28296706.09 0.0090 0.0020

Neptune 72761-11-21 12:29 G 28296793.88 28296794.02 28296794.17 0.0090 0.0028

Neptune 72762-02-17 14:39 G 28296881.97 28296882.11 28296882.25 0.0090 0.0037

Neptune 72762-05-16 16:19 G 28296970.06 28296970.18 28296970.32 0.0090 0.0046

Neptune 72762-08-12 18:15 G 28297058.15 28297058.26 28297058.40 0.0090 0.0055

Neptune 72762-11-08 20:24 G 28297146.25 28297146.35 28297146.47 0.0090 0.0063

Neptune 72763-02-04 22:34 G 28297234.35 28297234.44 28297234.53 0.0089 0.0071

Neptune 72763-05-04 00:15 G 28297322.46 28297322.51 28297322.59 0.0089 0.0080

Neptune 72763-07-31 02:10 G 28297410.58 28297410.59 28297410.63 0.0089 0.0088

Mars 72764-02-16 11:31 G 28297610.86 28297610.98 28297611.11 0.1813 0.0282

Jupiter 72766-01-25 07:12 G 28298319.76 28298319.80 28298319.84 0.0487 0.0468

Venus 72766-03-22 03:07 G 28298375.54 28298375.63 28298375.72 0.3702 0.2473

Jupiter 72766-04-24 19:12 G 28298409.16 28298409.30 28298409.44 0.0485 0.0177

Earth 72766-09-16 10:19 G 28298553.81 28298553.93 28298554.04 0.2700 0.0893

Moon 72766-09-16 11:03 G 28298553.84 28298553.96 28298554.07 0.2696 0.0995 *

Moon 72769-03-16 02:10 G 28299465.46 28299465.59 28299465.71 0.2625 0.0795

Earth 72769-03-16 01:55 G 28299465.46 28299465.58 28299465.71 0.2631 0.0835 *

Venus 72771-10-05 23:31 G 28300399.37 28300399.48 28300399.59 0.3701 0.1412

Jupiter 72772-03-29 07:55 G 28300574.72 28300574.83 28300574.95 0.0542 0.0349

Mars 72773-07-08 18:58 G 28301041.20 28301041.29 28301041.39 0.1807 0.1128

Mars 72774-05-24 08:24 G 28301360.73 28301360.85 28301360.98 0.1704 0.0928

Saturn 72775-09-12 16:19 G 28301837.06 28301837.18 28301837.31 0.0279 0.0156

Saturn 72775-12-10 07:12 G 28301925.64 28301925.80 28301925.95 0.0280 0.0019

Saturn 72776-03-07 22:05 G 28302014.29 28302014.42 28302014.56 0.0280 0.0126

Saturn 72776-06-04 13:41 G 28302103.03 28302103.07 28302103.10 0.0280 0.0272

Jupiter 72778-02-10 21:51 G 28302719.26 28302719.41 28302719.56 0.0486 0.0018

Earth 72779-09-19 07:12 G 28303304.74 28303304.80 28303304.87 0.2699 0.2265

Moon 72779-09-19 07:27 G 28303304.75 28303304.81 28303304.88 0.2693 0.2303 *

Uranus 72780-09-02 06:15 G 28303653.73 28303653.76 28303653.80 0.0135 0.0131

Uranus 72780-11-29 10:48 G 28303741.87 28303741.95 28303742.05 0.0135 0.0110

Uranus 72781-02-25 15:36 G 28303830.03 28303830.15 28303830.27 0.0135 0.0088

Uranus 72781-05-24 19:55 G 28303918.20 28303918.33 28303918.47 0.0135 0.0067

Uranus 72781-08-21 00:29 G 28304006.38 28304006.52 28304006.67 0.0135 0.0046

Uranus 72781-11-17 05:03 G 28304094.56 28304094.71 28304094.86 0.0135 0.0025

Uranus 72782-02-13 09:22 G 28304182.74 28304182.89 28304183.05 0.0135 0.0006

Moon 72782-03-19 00:15 G 28304216.38 28304216.51 28304216.64 0.2626 0.0604

Earth 72782-03-19 00:43 G 28304216.40 28304216.53 28304216.66 0.2632 0.0634 *

Uranus 72782-05-12 13:55 G 28304270.92 28304271.08 28304271.23 0.0135 0.0016

Uranus 72782-08-08 18:00 G 28304359.11 28304359.25 28304359.41 0.0135 0.0038

Uranus 72782-11-04 22:34 G 28304447.30 28304447.44 28304447.58 0.0135 0.0057

Uranus 72783-02-01 02:53 G 28304535.49 28304535.62 28304535.74 0.0135 0.0078

Uranus 72783-04-30 06:58 G 28304623.69 28304623.79 28304623.90 0.0135 0.0098

Uranus 72783-07-27 11:03 G 28304711.90 28304711.96 28304712.04 0.0135 0.0119

Mars 72783-10-14 12:15 G 28304790.86 28304791.01 28304791.16 0.1710 0.0015

Jupiter 72784-04-15 03:36 G 28304974.53 28304974.65 28304974.77 0.0543 0.0307

Venus 72784-05-16 13:12 G 28305005.93 28305006.05 28305006.16 0.3669 0.1110

Mars 72784-11-03 21:07 G 28305177.33 28305177.38 28305177.44 0.1826 0.1599

Earth 72786-09-11 20:24 G 28305854.26 28305854.35 28305854.45 0.2702 0.1716

Moon 72786-09-11 21:22 G 28305854.29 28305854.39 28305854.48 0.2706 0.1711 *

Jupiter 72789-11-30 00:29 G 28307029.38 28307029.52 28307029.67 0.0486 0.0140

Venus 72789-11-30 09:22 G 28307029.81 28307029.89 28307029.97 0.3671 0.2704

Saturn 72790-01-22 08:24 G 28307082.71 28307082.85 28307082.99 0.0280 0.0129

Saturn 72790-04-21 00:43 G 28307171.37 28307171.53 28307171.69 0.0279 0.0018

Saturn 72790-07-18 16:19 G 28307260.06 28307260.18 28307260.31 0.0279 0.0162

Mars 72793-03-05 15:51 G 28308221.03 28308221.16 28308221.29 0.1716 0.0930

Mars 72794-03-27 04:19 G 28308607.57 28308607.68 28308607.80 0.1820 0.0707

Moon 72795-03-21 22:34 G 28308967.36 28308967.44 28308967.53 0.2632 0.1970

Earth 72795-03-21 23:46 G 28308967.42 28308967.49 28308967.57 0.2633 0.2148 *

Jupiter 72796-02-02 04:19 G 28309284.53 28309284.68 28309284.82 0.0542 0.0086

Earth 72799-09-14 18:15 G 28310605.13 28310605.26 28310605.38 0.2701 0.0258

Moon 72799-09-14 19:12 G 28310605.17 28310605.30 28310605.42 0.2701 0.0105 *

Jupiter 72801-09-18 03:22 G 28311339.52 28311339.64 28311339.76 0.0487 0.0295

Jupiter 72801-12-16 15:36 G 28311429.05 28311429.15 28311429.26 0.0485 0.0359

Earth 72802-03-14 09:07 G 28311516.79 28311516.88 28311516.96 0.2631 0.1980

Moon 72802-03-14 09:51 G 28311516.82 28311516.91 28311517.00 0.2626 0.1832 *

Mars 72803-08-17 11:31 G 28312037.86 28312037.98 28312038.11 0.1813 0.0183

Saturn 72805-01-29 18:00 G 28312569.14 28312569.25 28312569.35 0.0279 0.0193

Saturn 72805-04-28 08:24 G 28312657.71 28312657.85 28312658.00 0.0279 0.0056

Saturn 72805-07-25 23:17 G 28312746.33 28312746.47 28312746.62 0.0280 0.0086

Saturn 72805-10-22 14:39 G 28312835.03 28312835.11 28312835.20 0.0280 0.0230

Jupiter 72807-11-21 05:03 G 28313594.57 28313594.71 28313594.86 0.0542 0.0133

Earth 72812-09-16 15:36 G 28315356.04 28315356.15 28315356.26 0.2700 0.1159

Moon 72812-09-16 16:19 G 28315356.07 28315356.18 28315356.29 0.2695 0.1187 *

Mars 72813-01-06 19:12 G 28315468.20 28315468.30 28315468.40 0.1807 0.1022

Jupiter 72813-07-07 06:15 G 28315649.71 28315649.76 28315649.82 0.0487 0.0449

Jupiter 72813-10-04 18:15 G 28315739.12 28315739.26 28315739.40 0.0485 0.0197

Mars 72813-11-22 08:53 G 28315787.75 28315787.87 28315787.98 0.1704 0.1040

Moon 72815-03-17 07:27 G 28316267.68 28316267.81 28316267.94 0.2624 0.0607

Earth 72815-03-17 07:27 G 28316267.68 28316267.81 28316267.94 0.2631 0.0560 *

Saturn 72819-06-11 07:27 G 28317814.70 28317814.81 28317814.93 0.0279 0.0188

Saturn 72819-09-07 23:46 G 28317903.34 28317903.49 28317903.65 0.0279 0.0039

Jupiter 72819-09-09 06:15 G 28317904.65 28317904.76 28317904.88 0.0542 0.0344

Saturn 72819-12-05 15:51 G 28317992.01 28317992.16 28317992.30 0.0279 0.0106

Saturn 72820-03-03 07:12 G 28318080.74 28318080.80 28318080.88 0.0278 0.0246

Uranus 72821-12-11 17:03 G 28318729.14 28318729.21 28318729.31 0.0143 0.0120

Uranus 72822-03-09 22:19 G 28318817.33 28318817.43 28318817.56 0.0143 0.0096

Uranus 72822-06-06 03:51 G 28318905.53 28318905.66 28318905.80 0.0143 0.0070

Uranus 72822-09-02 09:07 G 28318993.74 28318993.88 28318994.04 0.0143 0.0045

Venus 72822-10-27 01:55 G 28319048.46 28319048.58 28319048.69 0.3702 0.1024

Uranus 72822-11-29 14:39 G 28319081.96 28319082.11 28319082.27 0.0143 0.0020

Uranus 72823-02-25 20:10 G 28319170.18 28319170.34 28319170.50 0.0143 0.0006

Mars 72823-04-14 12:43 G 28319217.88 28319218.03 28319218.18 0.1710 0.0142

Uranus 72823-05-25 01:41 G 28319258.42 28319258.57 28319258.73 0.0143 0.0032

Uranus 72823-08-21 07:12 G 28319346.66 28319346.80 28319346.95 0.0143 0.0058

Uranus 72823-11-17 12:43 G 28319434.91 28319435.03 28319435.17 0.0143 0.0084

Uranus 72824-02-13 18:15 G 28319523.17 28319523.26 28319523.38 0.0143 0.0110

Mars 72824-05-04 21:22 G 28319604.35 28319604.39 28319604.43 0.1826 0.1711

Uranus 72824-05-12 00:15 G 28319611.46 28319611.51 28319611.56 0.0143 0.0136

Jupiter 72825-07-23 20:39 G 28320049.21 28320049.36 28320049.51 0.0486 0.0032

Moon 72825-09-19 12:29 G 28320106.98 28320107.02 28320107.06 0.2693 0.2517

Earth 72825-09-19 12:29 G 28320106.98 28320107.02 28320107.07 0.2699 0.2521 *

Moon 72828-03-19 05:31 G 28321018.60 28321018.73 28321018.86 0.2628 0.0848

Earth 72828-03-19 06:15 G 28321018.64 28321018.76 28321018.89 0.2632 0.0916 *

Venus 72828-05-11 22:05 G 28321072.34 28321072.42 28321072.50 0.3701 0.2792

Jupiter 72831-09-26 03:22 G 28322304.52 28322304.64 28322304.75 0.0543 0.0341

Mars 72832-09-03 16:19 G 28322648.05 28322648.18 28322648.31 0.1715 0.0799

Earth 72832-09-12 01:55 G 28322656.47 28322656.58 28322656.68 0.2702 0.1441

Moon 72832-09-12 02:39 G 28322656.50 28322656.61 28322656.72 0.2706 0.1273 *

Mars 72833-09-25 04:19 G 28323034.57 28323034.68 28323034.79 0.1819 0.0792

Saturn 72834-06-18 17:31 G 28323301.17 28323301.23 28323301.30 0.0279 0.0247

Saturn 72834-09-15 07:55 G 28323389.70 28323389.83 28323389.98 0.0279 0.0112

Saturn 72834-12-12 22:48 G 28323478.30 28323478.45 28323478.60 0.0280 0.0030

Saturn 72835-03-11 13:55 G 28323566.97 28323567.08 28323567.21 0.0280 0.0173

Venus 72835-06-07 15:36 G 28323655.11 28323655.15 28323655.19 0.3668 0.3442

Jupiter 72837-05-11 23:31 G 28324359.33 28324359.48 28324359.62 0.0486 0.0126

Venus 72840-12-21 11:31 G 28325678.86 28325678.98 28325679.11 0.3670 0.0279

Moon 72841-03-22 04:19 G 28325769.62 28325769.68 28325769.73 0.2632 0.2370

Earth 72841-03-22 05:31 G 28325769.68 28325769.73 28325769.77 0.2633 0.2443 *

Neptune 72841-06-15 06:58 G 28325854.79 28325854.79 28325854.84 0.0088 0.0087

Neptune 72841-09-11 09:36 G 28325942.83 28325942.90 28325942.97 0.0088 0.0078

Neptune 72841-12-08 11:31 G 28326030.89 28326030.98 28326031.08 0.0088 0.0070

Neptune 72842-03-06 13:41 G 28326118.97 28326119.07 28326119.19 0.0088 0.0062

Neptune 72842-06-02 15:36 G 28326207.04 28326207.15 28326207.29 0.0088 0.0054

Neptune 72842-08-29 18:00 G 28326295.12 28326295.25 28326295.39 0.0088 0.0045

Neptune 72842-11-25 20:10 G 28326383.20 28326383.34 28326383.49 0.0088 0.0037

Mars 72843-02-15 11:46 G 28326464.86 28326464.99 28326465.11 0.1813 0.0085

Neptune 72843-02-21 22:19 G 28326471.28 28326471.43 28326471.59 0.0088 0.0028

Neptune 72843-05-21 00:29 G 28326559.37 28326559.52 28326559.68 0.0088 0.0020

Jupiter 72843-07-15 03:07 G 28326614.49 28326614.63 28326614.78 0.0542 0.0102

Neptune 72843-08-17 02:39 G 28326647.46 28326647.61 28326647.77 0.0088 0.0012

Neptune 72843-11-13 05:03 G 28326735.54 28326735.71 28326735.87 0.0088 0.0004

Neptune 72844-02-09 07:12 G 28326823.64 28326823.80 28326823.96 0.0088 0.0006

Neptune 72844-05-07 09:22 G 28326911.73 28326911.89 28326912.05 0.0088 0.0014

Neptune 72844-08-03 11:31 G 28326999.83 28326999.98 28327000.14 0.0088 0.0023

Neptune 72844-10-30 13:27 G 28327087.92 28327088.06 28327088.23 0.0088 0.0032

Neptune 72845-01-26 15:51 G 28327176.02 28327176.16 28327176.31 0.0088 0.0040

Neptune 72845-04-24 18:00 G 28327264.13 28327264.25 28327264.40 0.0088 0.0049

Neptune 72845-07-21 20:10 G 28327352.23 28327352.34 28327352.48 0.0088 0.0058

Earth 72845-09-14 23:31 G 28327407.35 28327407.48 28327407.60 0.2701 0.0025

Moon 72845-09-15 00:29 G 28327407.39 28327407.52 28327407.64 0.2699 0.0053 *

Neptune 72845-10-17 22:48 G 28327440.35 28327440.45 28327440.56 0.0088 0.0066

Neptune 72846-01-14 00:58 G 28327528.46 28327528.54 28327528.63 0.0088 0.0075

Neptune 72846-04-12 03:07 G 28327616.60 28327616.63 28327616.69 0.0088 0.0084

Earth 72848-03-14 14:24 G 28328319.00 28328319.10 28328319.20 0.2631 0.1713

Moon 72848-03-14 15:07 G 28328319.03 28328319.13 28328319.23 0.2626 0.1726 *

Saturn 72848-10-28 08:53 G 28328546.78 28328546.87 28328546.97 0.0280 0.0224

Saturn 72849-01-25 01:27 G 28328635.41 28328635.56 28328635.72 0.0280 0.0073

Jupiter 72849-02-28 02:10 G 28328669.47 28328669.59 28328669.72 0.0487 0.0282

Saturn 72849-04-23 17:31 G 28328724.08 28328724.23 28328724.38 0.0280 0.0073

Jupiter 72849-05-28 14:39 G 28328759.01 28328759.11 28328759.21 0.0486 0.0373

Saturn 72849-07-21 09:22 G 28328812.79 28328812.89 28328812.98 0.0279 0.0215

Mars 72852-07-07 19:12 G 28329895.19 28329895.30 28329895.41 0.1806 0.0917

Mars 72853-05-23 09:22 G 28330214.78 28330214.89 28330214.99 0.1704 0.1162

Jupiter 72855-05-03 03:36 G 28330924.51 28330924.65 28330924.80 0.0542 0.0124

Earth 72858-09-17 20:53 G 28332158.26 28332158.37 28332158.47 0.2700 0.1422

Moon 72858-09-17 21:22 G 28332158.29 28332158.39 28332158.50 0.2695 0.1543 *

Jupiter 72860-12-17 05:03 G 28332979.65 28332979.71 28332979.78 0.0487 0.0437

Jupiter 72861-03-16 17:03 G 28333069.08 28333069.21 28333069.35 0.0486 0.0211

Moon 72861-03-17 12:58 G 28333069.90 28333070.04 28333070.17 0.2625 0.0227

Earth 72861-03-17 12:58 G 28333069.91 28333070.04 28333070.17 0.2631 0.0282 *

Mars 72861-11-28 02:53 G 28333325.59 28333325.62 28333325.65 0.1800 0.1733

Mars 72862-10-13 13:12 G 28333644.90 28333645.05 28333645.20 0.1710 0.0263

Mars 72863-11-03 21:22 G 28334031.38 28334031.39 28334031.40 0.1826 0.1812

Saturn 72864-02-02 09:51 G 28334121.79 28334121.91 28334122.04 0.0279 0.0146

Saturn 72864-05-01 00:29 G 28334210.37 28334210.52 28334210.68 0.0279 0.0010

Saturn 72864-07-28 15:36 G 28334299.02 28334299.15 28334299.28 0.0280 0.0135

Uranus 72864-09-22 12:58 G 28334355.00 28334355.04 28334355.11 0.0135 0.0126

Saturn 72864-10-25 06:58 G 28334387.79 28334387.79 28334387.79 0.0280 0.0280

Uranus 72864-12-19 17:46 G 28334443.15 28334443.24 28334443.34 0.0135 0.0104

Uranus 72865-03-17 22:19 G 28334531.31 28334531.43 28334531.56 0.0135 0.0083

Uranus 72865-06-14 02:53 G 28334619.48 28334619.62 28334619.76 0.0135 0.0062

Uranus 72865-09-10 07:12 G 28334707.66 28334707.80 28334707.96 0.0135 0.0041

Earth 72865-09-10 09:22 G 28334707.87 28334707.89 28334707.91 0.2702 0.2657 *

Moon 72865-09-10 09:51 G 28334707.88 28334707.91 28334707.94 0.2708 0.2604 *

Uranus 72865-12-07 11:46 G 28334795.84 28334795.99 28334796.15 0.0135 0.0020

Uranus 72866-03-05 16:19 G 28334884.03 28334884.18 28334884.33 0.0135 0.0001

Uranus 72866-06-01 20:39 G 28334972.21 28334972.36 28334972.52 0.0135 0.0022

Uranus 72866-08-29 00:58 G 28335060.40 28335060.54 28335060.69 0.0135 0.0043

Uranus 72866-11-25 05:17 G 28335148.59 28335148.72 28335148.86 0.0135 0.0063

Jupiter 72867-02-19 04:19 G 28335234.56 28335234.68 28335234.79 0.0542 0.0346

Uranus 72867-02-21 09:36 G 28335236.79 28335236.90 28335237.02 0.0135 0.0083

Uranus 72867-05-20 13:55 G 28335324.99 28335325.08 28335325.18 0.0135 0.0104

Uranus 72867-08-16 18:15 G 28335413.20 28335413.26 28335413.32 0.0135 0.0124

Mars 72872-03-04 16:34 G 28337075.06 28337075.19 28337075.33 0.1716 0.0682

Jupiter 72873-01-02 19:55 G 28337379.17 28337379.33 28337379.48 0.0486 0.0053

Mars 72873-03-26 04:34 G 28337461.58 28337461.69 28337461.79 0.1819 0.0903

Venus 72873-11-17 04:05 G 28337697.64 28337697.67 28337697.70 0.3703 0.3554

Moon 72874-03-20 10:48 G 28337820.83 28337820.95 28337821.08 0.2629 0.1068

Earth 72874-03-20 11:46 G 28337820.87 28337820.99 28337821.11 0.2632 0.1201 *

Saturn 72878-06-14 00:43 G 28339367.39 28339367.53 28339367.67 0.0279 0.0130

Saturn 72878-09-10 17:03 G 28339456.05 28339456.21 28339456.37 0.0279 0.0018

Earth 72878-09-13 07:12 G 28339458.69 28339458.80 28339458.91 0.2702 0.1160

Moon 72878-09-13 08:10 G 28339458.72 28339458.84 28339458.95 0.2705 0.1137 *

Saturn 72878-12-08 08:53 G 28339544.74 28339544.87 28339544.99 0.0279 0.0161

Jupiter 72879-03-08 01:41 G 28339634.46 28339634.57 28339634.68 0.0543 0.0346

Venus 72879-06-03 00:29 G 28339721.40 28339721.52 28339721.64 0.3702 0.0387

Mars 72881-07-25 19:55 G 28340505.29 28340505.33 28340505.37 0.1722 0.1650

Mars 72882-08-16 11:46 G 28340891.86 28340891.99 28340892.11 0.1813 0.0067

Pluto 72883-04-10 19:41 G 28341129.27 28341129.32 28341129.40 0.0064 0.0058

Pluto 72883-07-07 20:39 G 28341217.26 28341217.36 28341217.48 0.0064 0.0047

Pluto 72883-10-03 21:22 G 28341305.27 28341305.39 28341305.53 0.0064 0.0036

Pluto 72883-12-30 22:05 G 28341393.29 28341393.42 28341393.58 0.0064 0.0026

Pluto 72884-03-27 23:03 G 28341481.31 28341481.46 28341481.62 0.0065 0.0015

Pluto 72884-06-24 00:00 G 28341569.34 28341569.50 28341569.66 0.0065 0.0004

Pluto 72884-09-20 00:43 G 28341657.38 28341657.53 28341657.69 0.0065 0.0007

Jupiter 72884-10-21 22:19 G 28341689.28 28341689.43 28341689.57 0.0486 0.0113

Pluto 72884-12-17 01:27 G 28341745.41 28341745.56 28341745.71 0.0065 0.0018

Pluto 72885-03-15 02:10 G 28341833.46 28341833.59 28341833.74 0.0065 0.0029

Pluto 72885-06-11 02:53 G 28341921.51 28341921.62 28341921.75 0.0065 0.0040

Pluto 72885-09-07 03:36 G 28342009.57 28342009.65 28342009.76 0.0065 0.0051

Pluto 72885-12-04 04:19 G 28342097.65 28342097.68 28342097.74 0.0065 0.0062

Moon 72887-03-23 09:51 G 28342571.89 28342571.91 28342571.93 0.2633 0.2588

Jupiter 72890-12-25 02:53 G 28343944.47 28343944.62 28343944.76 0.0543 0.0134

Earth 72891-09-16 04:48 G 28344209.57 28344209.70 28344209.82 0.2701 0.0285

Moon 72891-09-16 05:46 G 28344209.61 28344209.74 28344209.86 0.2698 0.0467 *

Mars 72892-01-06 19:12 G 28344322.19 28344322.30 28344322.41 0.1806 0.0830

Venus 72892-01-12 14:10 G 28344327.99 28344328.09 28344328.18 0.3668 0.2121

Mars 72892-11-21 09:51 G 28344641.81 28344641.91 28344642.00 0.1704 0.1291

Saturn 72893-06-21 09:22 G 28344853.79 28344853.89 28344854.00 0.0279 0.0201

Saturn 72893-09-18 00:00 G 28344942.35 28344942.50 28344942.65 0.0279 0.0064

Saturn 72893-12-15 14:53 G 28345030.97 28345031.12 28345031.27 0.0280 0.0076

Saturn 72894-03-14 06:00 G 28345119.66 28345119.75 28345119.85 0.0280 0.0221

Earth 72894-03-15 19:55 G 28345121.22 28345121.33 28345121.44 0.2631 0.1443

Moon 72894-03-15 20:24 G 28345121.23 28345121.35 28345121.46 0.2624 0.1322 *

Jupiter 72896-08-10 00:58 G 28345999.42 28345999.54 28345999.67 0.0487 0.0269

Jupiter 72896-11-07 13:27 G 28346088.97 28346089.06 28346089.15 0.0485 0.0386

Venus 72897-07-28 10:19 G 28346351.82 28346351.93 28346352.04 0.3670 0.1640

Mars 72901-05-30 03:07 G 28347752.58 28347752.63 28347752.68 0.1800 0.1626

Mars 72902-04-14 13:41 G 28348071.92 28348072.07 28348072.21 0.1710 0.0385

Jupiter 72902-10-14 02:39 G 28348254.46 28348254.61 28348254.76 0.0542 0.0105

Earth 72904-09-19 02:10 G 28348960.49 28348960.59 28348960.68 0.2700 0.1684

Moon 72904-09-19 02:39 G 28348960.51 28348960.61 28348960.70 0.2694 0.1664 *

Uranus 72905-10-05 18:58 G 28349342.26 28349342.29 28349342.34 0.0143 0.0138

Uranus 72906-01-02 00:15 G 28349430.42 28349430.51 28349430.61 0.0143 0.0113

Uranus 72906-03-31 05:31 G 28349518.61 28349518.73 28349518.86 0.0143 0.0088

Uranus 72906-06-27 11:03 G 28349606.82 28349606.96 28349607.10 0.0143 0.0063

Uranus 72906-09-23 16:19 G 28349695.03 28349695.18 28349695.34 0.0143 0.0038

Uranus 72906-12-20 21:51 G 28349783.25 28349783.41 28349783.57 0.0143 0.0013

Uranus 72907-03-19 03:22 G 28349871.48 28349871.64 28349871.80 0.0143 0.0013

Moon 72907-03-19 18:15 G 28349872.13 28349872.26 28349872.39 0.2625 0.0097

Earth 72907-03-19 18:29 G 28349872.14 28349872.27 28349872.40 0.2631 0.0031 *

Uranus 72907-06-15 08:39 G 28349959.71 28349959.86 28349960.02 0.0143 0.0039

Uranus 72907-09-11 14:10 G 28350047.95 28350048.09 28350048.24 0.0143 0.0065

Saturn 72907-11-02 01:55 G 28350099.46 28350099.58 28350099.71 0.0280 0.0168

Uranus 72907-12-08 19:41 G 28350136.21 28350136.32 28350136.46 0.0143 0.0091

Saturn 72908-01-29 18:29 G 28350188.11 28350188.27 28350188.42 0.0280 0.0020

Uranus 72908-03-06 01:27 G 28350224.48 28350224.56 28350224.66 0.0143 0.0117

Saturn 72908-04-27 10:19 G 28350276.79 28350276.93 28350277.07 0.0280 0.0126

Jupiter 72908-05-30 03:51 G 28350309.59 28350309.66 28350309.73 0.0487 0.0425

Saturn 72908-07-25 01:55 G 28350365.54 28350365.58 28350365.62 0.0279 0.0267

Jupiter 72908-08-27 15:51 G 28350399.03 28350399.16 28350399.30 0.0486 0.0224

Mars 72911-09-04 17:03 G 28351502.07 28351502.21 28351502.36 0.1716 0.0553

Earth 72911-09-12 14:39 G 28351510.05 28351510.11 28351510.17 0.2702 0.2373

Moon 72911-09-12 15:22 G 28351510.07 28351510.14 28351510.20 0.2708 0.2313 *

Mars 72912-09-25 04:34 G 28351888.58 28351888.69 28351888.79 0.1819 0.1006

Jupiter 72914-08-02 02:53 G 28352564.51 28352564.62 28352564.74 0.0541 0.0335

Moon 72920-03-21 16:19 G 28354623.07 28354623.18 28354623.29 0.2629 0.1437

Earth 72920-03-21 17:17 G 28354623.11 28354623.22 28354623.33 0.2632 0.1485 *

Jupiter 72920-06-15 18:29 G 28354709.12 28354709.27 28354709.42 0.0486 0.0063

Mars 72921-01-24 20:10 G 28354932.28 28354932.34 28354932.41 0.1722 0.1525

Mars 72922-02-15 11:46 G 28355318.86 28355318.99 28355319.11 0.1813 0.0127

Saturn 72922-11-09 11:31 G 28355585.91 28355585.98 28355586.07 0.0279 0.0233

Saturn 72923-02-06 02:10 G 28355674.45 28355674.59 28355674.73 0.0279 0.0097

Neptune 72923-04-04 06:29 G 28355731.76 28355731.77 28355731.78 0.0090 0.0089

Saturn 72923-05-05 16:48 G 28355763.05 28355763.20 28355763.35 0.0279 0.0043

Neptune 72923-07-01 08:10 G 28355819.79 28355819.84 28355819.93 0.0090 0.0081

Saturn 72923-08-02 07:55 G 28355851.72 28355851.83 28355851.94 0.0280 0.0185

Neptune 72923-09-27 10:19 G 28355907.86 28355907.93 28355908.04 0.0090 0.0072

Neptune 72923-12-24 12:43 G 28355995.93 28355996.03 28355996.15 0.0090 0.0062

Neptune 72924-03-21 14:53 G 28356084.00 28356084.12 28356084.25 0.0090 0.0054

Neptune 72924-06-17 17:03 G 28356172.08 28356172.21 28356172.35 0.0090 0.0045

Neptune 72924-09-13 19:12 G 28356260.16 28356260.30 28356260.45 0.0090 0.0036

Earth 72924-09-14 12:29 G 28356260.90 28356261.02 28356261.14 0.2701 0.0889

Moon 72924-09-14 13:27 G 28356260.94 28356261.06 28356261.18 0.2703 0.0752 *

Neptune 72924-12-10 21:22 G 28356348.25 28356348.39 28356348.54 0.0090 0.0027

Neptune 72925-03-08 23:31 G 28356436.33 28356436.48 28356436.63 0.0090 0.0018

Neptune 72925-06-05 01:41 G 28356524.42 28356524.57 28356524.72 0.0090 0.0009

Neptune 72925-09-01 03:51 G 28356612.50 28356612.66 28356612.81 0.0090 0.0002

Neptune 72925-11-28 05:46 G 28356700.59 28356700.74 28356700.90 0.0090 0.0008

Neptune 72926-02-24 07:55 G 28356788.68 28356788.83 28356788.98 0.0090 0.0017

Neptune 72926-05-23 09:51 G 28356876.77 28356876.91 28356877.06 0.0090 0.0026

Jupiter 72926-08-18 23:31 G 28356964.37 28356964.48 28356964.60 0.0543 0.0343

Neptune 72926-08-19 11:46 G 28356964.86 28356964.99 28356965.14 0.0090 0.0034

Neptune 72926-11-15 13:55 G 28357052.95 28357053.08 28357053.22 0.0090 0.0043

Neptune 72927-02-11 15:51 G 28357141.04 28357141.16 28357141.29 0.0090 0.0051

Earth 72927-03-15 03:07 G 28357172.60 28357172.63 28357172.65 0.2630 0.2566

Moon 72927-03-15 04:05 G 28357172.62 28357172.67 28357172.71 0.2628 0.2426 *

Neptune 72927-05-10 17:46 G 28357229.14 28357229.24 28357229.36 0.0090 0.0060

Neptune 72927-08-06 19:41 G 28357317.24 28357317.32 28357317.43 0.0090 0.0069

Neptune 72927-11-02 21:51 G 28357405.34 28357405.41 28357405.50 0.0089 0.0077

Neptune 72928-01-29 23:46 G 28357493.46 28357493.49 28357493.55 0.0089 0.0085

Venus 72930-06-25 02:53 G 28358370.52 28358370.62 28358370.72 0.3703 0.2105

Mars 72931-07-08 19:12 G 28358749.19 28358749.30 28358749.41 0.1806 0.0722

Jupiter 72932-04-03 21:22 G 28359019.24 28359019.39 28359019.54 0.0486 0.0095

Mars 72932-05-23 10:05 G 28359068.84 28359068.92 28359069.00 0.1704 0.1396

Venus 72936-01-08 23:17 G 28360394.36 28360394.47 28360394.57 0.3701 0.1800

Saturn 72937-03-21 01:12 G 28360831.47 28360831.55 28360831.66 0.0280 0.0223

Saturn 72937-06-17 18:00 G 28360920.10 28360920.25 28360920.40 0.0279 0.0072

Saturn 72937-09-14 10:05 G 28361008.77 28361008.92 28361009.07 0.0279 0.0074

Earth 72937-09-17 10:05 G 28361011.80 28361011.92 28361012.04 0.2701 0.0553

Moon 72937-09-17 11:03 G 28361011.84 28361011.96 28361012.08 0.2698 0.0574 *

Saturn 72937-12-12 01:41 G 28361097.48 28361097.57 28361097.67 0.0279 0.0216

Jupiter 72938-06-07 00:58 G 28361274.40 28361274.54 28361274.69 0.0543 0.0136

Earth 72940-03-17 01:27 G 28361923.44 28361923.56 28361923.67 0.2631 0.1170

Moon 72940-03-17 01:41 G 28361923.46 28361923.57 28361923.69 0.2624 0.1203 *

Mars 72940-11-28 02:53 G 28362179.56 28362179.62 28362179.69 0.1800 0.1539

Mars 72941-10-13 14:10 G 28362498.94 28362499.09 28362499.23 0.1710 0.0510

Jupiter 72944-01-21 23:46 G 28363329.37 28363329.49 28363329.62 0.0486 0.0256

Jupiter 72944-04-20 12:15 G 28363418.92 28363419.01 28363419.09 0.0485 0.0398

Venus 72948-08-19 12:43 G 28365000.91 28365001.03 28365001.15 0.3669 0.0761

Uranus 72948-10-13 19:55 G 28365056.27 28365056.33 28365056.41 0.0135 0.0120

Uranus 72949-01-10 00:43 G 28365144.43 28365144.53 28365144.64 0.0135 0.0098

Uranus 72949-04-08 05:17 G 28365232.60 28365232.72 28365232.85 0.0135 0.0077

Uranus 72949-07-05 09:51 G 28365320.77 28365320.91 28365321.05 0.0135 0.0056

Uranus 72949-10-01 14:10 G 28365408.95 28365409.09 28365409.25 0.0135 0.0036

Uranus 72949-12-28 18:43 G 28365497.13 28365497.28 28365497.44 0.0135 0.0015

Jupiter 72950-03-26 02:10 G 28365584.44 28365584.59 28365584.74 0.0542 0.0078

Uranus 72950-03-26 23:17 G 28365585.32 28365585.47 28365585.62 0.0135 0.0007

Uranus 72950-06-23 03:36 G 28365673.50 28365673.65 28365673.80 0.0135 0.0028

Uranus 72950-09-19 08:10 G 28365761.69 28365761.84 28365761.98 0.0135 0.0049

Earth 72950-09-20 07:27 G 28365762.72 28365762.81 28365762.89 0.2700 0.1945

Moon 72950-09-20 07:41 G 28365762.74 28365762.82 28365762.90 0.2693 0.2038 *

Uranus 72950-12-16 12:15 G 28365849.89 28365850.01 28365850.15 0.0135 0.0069

Mars 72951-03-05 17:46 G 28365929.09 28365929.24 28365929.38 0.1715 0.0417

Uranus 72951-03-14 16:34 G 28365938.08 28365938.19 28365938.31 0.0135 0.0089

Uranus 72951-06-10 20:53 G 28366026.29 28366026.37 28366026.46 0.0135 0.0110

Uranus 72951-09-07 01:12 G 28366114.51 28366114.55 28366114.59 0.0135 0.0130

Mars 72952-03-26 04:34 G 28366315.59 28366315.69 28366315.79 0.1819 0.1101

Saturn 72952-06-25 01:27 G 28366406.44 28366406.56 28366406.69 0.0279 0.0153

Saturn 72952-09-21 16:05 G 28366495.02 28366495.17 28366495.32 0.0279 0.0016

Saturn 72952-12-19 06:58 G 28366583.66 28366583.79 28366583.93 0.0280 0.0127

Saturn 72953-03-17 22:19 G 28366672.40 28366672.43 28366672.47 0.0280 0.0271

Moon 72953-03-19 23:31 G 28366674.34 28366674.48 28366674.61 0.2626 0.0303

Earth 72953-03-20 00:00 G 28366674.37 28366674.50 28366674.63 0.2632 0.0276 *

Venus 72954-03-05 08:53 G 28367024.81 28367024.87 28367024.94 0.3670 0.3058

Jupiter 72955-11-10 02:39 G 28367639.54 28367639.61 28367639.69 0.0487 0.0411

Jupiter 72956-02-07 14:39 G 28367728.98 28367729.11 28367729.25 0.0486 0.0238

Earth 72957-09-12 20:10 G 28368312.26 28368312.34 28368312.42 0.2702 0.2090

Moon 72957-09-12 20:39 G 28368312.28 28368312.36 28368312.44 0.2708 0.2058 *

Mars 72960-07-25 20:39 G 28369359.28 28369359.36 28369359.45 0.1722 0.1395

Mars 72961-08-16 11:46 G 28369745.87 28369745.99 28369746.11 0.1813 0.0226

Jupiter 72962-01-12 01:55 G 28369894.46 28369894.58 28369894.70 0.0541 0.0316

Moon 72966-03-22 21:51 G 28371425.30 28371425.41 28371425.52 0.2629 0.1598

Earth 72966-03-22 22:48 G 28371425.35 28371425.45 28371425.55 0.2632 0.1774 *

Saturn 72966-08-08 02:10 G 28371563.54 28371563.59 28371563.65 0.0281 0.0265

Saturn 72966-11-04 18:58 G 28371652.15 28371652.29 28371652.44 0.0280 0.0112

Saturn 72967-02-01 11:17 G 28371740.82 28371740.97 28371741.13 0.0280 0.0036

Saturn 72967-05-01 03:07 G 28371829.52 28371829.63 28371829.75 0.0280 0.0180

Jupiter 72967-11-26 17:17 G 28372039.07 28372039.22 28372039.37 0.0486 0.0075

Earth 72970-09-15 18:00 G 28373063.12 28373063.25 28373063.37 0.2701 0.0616

Moon 72970-09-15 18:58 G 28373063.16 28373063.29 28373063.41 0.2702 0.0515 *

Mars 72971-01-06 19:12 G 28373176.19 28373176.30 28373176.42 0.1806 0.0622

Mars 72971-11-22 10:34 G 28373495.87 28373495.94 28373496.00 0.1704 0.1519

Pluto 72972-03-28 00:15 G 28373622.46 28373622.51 28373622.57 0.0080 0.0074

Pluto 72972-06-24 01:55 G 28373710.47 28373710.58 28373710.71 0.0080 0.0053

Pluto 72972-09-20 03:36 G 28373798.51 28373798.65 28373798.81 0.0080 0.0032

Pluto 72972-12-17 05:31 G 28373886.57 28373886.73 28373886.89 0.0080 0.0011

Pluto 72973-03-15 07:12 G 28373974.64 28373974.80 28373974.96 0.0080 0.0010

Earth 72973-03-15 08:39 G 28373974.80 28373974.86 28373974.92 0.2630 0.2296 *

Moon 72973-03-15 09:22 G 28373974.82 28373974.89 28373974.96 0.2626 0.2227 *

Pluto 72973-06-11 08:53 G 28374062.73 28374062.87 28374063.02 0.0080 0.0031

Pluto 72973-09-07 10:34 G 28374150.82 28374150.94 28374151.07 0.0079 0.0052

Pluto 72973-12-04 12:15 G 28374238.95 28374239.01 28374239.08 0.0079 0.0073

Jupiter 72974-01-28 22:19 G 28374294.32 28374294.43 28374294.54 0.0542 0.0355

Jupiter 72979-09-14 19:55 G 28376349.18 28376349.33 28376349.48 0.0486 0.0085

Mars 72980-05-29 03:07 G 28376606.56 28376606.63 28376606.70 0.1800 0.1434

Mars 72981-04-13 14:24 G 28376925.97 28376926.10 28376926.24 0.1710 0.0633

Saturn 72981-11-12 04:05 G 28377138.56 28377138.67 28377138.78 0.0279 0.0181

Saturn 72982-02-08 18:29 G 28377227.13 28377227.27 28377227.42 0.0279 0.0046

Saturn 72982-05-08 09:22 G 28377315.75 28377315.89 28377316.04 0.0279 0.0095

Saturn 72982-08-05 00:43 G 28377404.45 28377404.53 28377404.60 0.0280 0.0239

Earth 72983-09-18 15:22 G 28377814.02 28377814.14 28377814.26 0.2701 0.0819

Moon 72983-09-18 16:19 G 28377814.06 28377814.18 28377814.29 0.2697 0.0973 *

Jupiter 72985-11-16 23:03 G 28378604.31 28378604.46 28378604.60 0.0542 0.0134

Earth 72986-03-18 06:58 G 28378725.66 28378725.79 28378725.91 0.2631 0.0903

Moon 72986-03-18 07:12 G 28378725.67 28378725.80 28378725.92 0.2625 0.0808 *

Venus 72987-01-30 01:27 G 28379043.44 28379043.56 28379043.68 0.3702 0.0664

Uranus 72989-10-26 01:55 G 28380043.52 28380043.58 28380043.64 0.0143 0.0131

Uranus 72990-01-22 06:58 G 28380131.70 28380131.79 28380131.91 0.0143 0.0107

Uranus 72990-04-20 12:29 G 28380219.89 28380220.02 28380220.15 0.0143 0.0082

Uranus 72990-07-17 17:46 G 28380308.10 28380308.24 28380308.39 0.0143 0.0057

Mars 72990-09-03 18:00 G 28380356.10 28380356.25 28380356.40 0.1716 0.0301

Uranus 72990-10-13 23:17 G 28380396.32 28380396.47 28380396.63 0.0143 0.0032

Uranus 72991-01-10 04:48 G 28380484.54 28380484.70 28380484.86 0.0143 0.0007

Uranus 72991-04-08 10:05 G 28380572.77 28380572.92 28380573.08 0.0143 0.0020

Jupiter 72991-07-03 22:48 G 28380659.32 28380659.45 28380659.58 0.0487 0.0241

Uranus 72991-07-05 15:36 G 28380661.00 28380661.15 28380661.31 0.0143 0.0045

Mars 72991-09-25 04:34 G 28380742.60 28380742.69 28380742.78 0.1819 0.1204

Jupiter 72991-10-01 11:03 G 28380748.89 28380748.96 28380749.04 0.0485 0.0414

Uranus 72991-10-01 21:07 G 28380749.25 28380749.38 28380749.53 0.0143 0.0071

Uranus 72991-12-29 02:53 G 28380837.50 28380837.62 28380837.74 0.0143 0.0097

Uranus 72992-03-26 08:39 G 28380925.78 28380925.86 28380925.94 0.0143 0.0123

Venus 72992-08-14 21:51 G 28381067.35 28381067.41 28381067.47 0.3701 0.3179

Saturn 72996-03-23 18:43 G 28382384.16 28382384.28 28382384.41 0.0280 0.0164

Saturn 72996-06-20 11:17 G 28382472.81 28382472.97 28382473.13 0.0280 0.0015

Saturn 72996-09-17 03:22 G 28382561.50 28382561.64 28382561.78 0.0279 0.0130

Earth 72996-09-20 12:43 G 28382564.96 28382565.03 28382565.09 0.2700 0.2206

Moon 72996-09-20 12:43 G 28382564.96 28382565.03 28382565.11 0.2693 0.2136 *

Saturn 72996-12-14 18:58 G 28382650.26 28382650.29 28382650.32 0.0279 0.0271

Jupiter 72997-09-05 00:15 G 28382914.36 28382914.51 28382914.65 0.0542 0.0079

Moon 72999-03-21 04:48 G 28383476.57 28383476.70 28383476.83 0.2627 0.0412

Earth 72999-03-21 05:31 G 28383476.60 28383476.73 28383476.86 0.2632 0.0560 *

Venus 72999-09-10 15:22 G 28383650.07 28383650.14 28383650.20 0.3668 0.3077

Mars 73000-01-24 21:22 G 28383786.29 28383786.39 28383786.49 0.1722 0.1255

74TH MILLENNIUM CE

This is a list of transits of Mercury in the 74th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Mars 73001-02-15 11:46 G 28384172.87 28384172.99 28384173.11 0.1813 0.0323

Jupiter 73003-04-23 01:27 G 28384969.48 28384969.56 28384969.64 0.0487 0.0400

Jupiter 73003-07-21 13:27 G 28385058.93 28385059.06 28385059.19 0.0486 0.0248

Earth 73003-09-15 01:27 G 28385114.47 28385114.56 28385114.65 0.2702 0.1810

Moon 73003-09-15 02:10 G 28385114.49 28385114.59 28385114.69 0.2707 0.1698 *

Venus 73005-03-27 11:17 G 28385673.85 28385673.97 28385674.09 0.3669 0.0614

Neptune 73006-03-14 06:29 G 28386025.73 28386025.77 28386025.85 0.0088 0.0081

Neptune 73006-06-10 08:39 G 28386113.79 28386113.86 28386113.96 0.0088 0.0073

Neptune 73006-09-06 11:03 G 28386201.85 28386201.96 28386202.07 0.0088 0.0064

Neptune 73006-12-03 12:58 G 28386289.93 28386290.04 28386290.17 0.0088 0.0056

Neptune 73007-03-01 15:07 G 28386378.00 28386378.13 28386378.27 0.0088 0.0048

Neptune 73007-05-28 17:17 G 28386466.09 28386466.22 28386466.37 0.0088 0.0039

Neptune 73007-08-24 19:27 G 28386554.17 28386554.31 28386554.47 0.0088 0.0031

Neptune 73007-11-20 21:36 G 28386642.25 28386642.40 28386642.56 0.0088 0.0023

Neptune 73008-02-17 00:00 G 28386730.34 28386730.50 28386730.66 0.0088 0.0014

Neptune 73008-05-15 02:10 G 28386818.43 28386818.59 28386818.75 0.0088 0.0006

Neptune 73008-08-11 04:19 G 28386906.52 28386906.68 28386906.84 0.0088 0.0003

Neptune 73008-11-07 06:29 G 28386994.61 28386994.77 28386994.93 0.0088 0.0011

Neptune 73009-02-03 08:39 G 28387082.70 28387082.86 28387083.02 0.0088 0.0020

Neptune 73009-05-02 10:48 G 28387170.80 28387170.95 28387171.11 0.0088 0.0029

Jupiter 73009-06-25 01:12 G 28387224.42 28387224.55 28387224.67 0.0542 0.0294

Neptune 73009-07-29 13:12 G 28387258.90 28387259.05 28387259.19 0.0088 0.0037

Neptune 73009-10-25 15:07 G 28387347.00 28387347.13 28387347.28 0.0088 0.0046

Neptune 73010-01-21 17:17 G 28387435.11 28387435.22 28387435.36 0.0088 0.0055

Neptune 73010-04-19 19:55 G 28387523.22 28387523.33 28387523.44 0.0088 0.0063

Mars 73010-07-08 19:12 G 28387603.18 28387603.30 28387603.42 0.1806 0.0530

Neptune 73010-07-16 22:05 G 28387611.33 28387611.42 28387611.51 0.0088 0.0072

Neptune 73010-10-13 00:15 G 28387699.46 28387699.51 28387699.58 0.0088 0.0081

Saturn 73011-04-02 03:36 G 28387870.58 28387870.65 28387870.73 0.0279 0.0236

Mars 73011-05-24 11:03 G 28387922.92 28387922.96 28387923.00 0.1704 0.1642

Saturn 73011-06-29 18:00 G 28387959.11 28387959.25 28387959.39 0.0279 0.0101

Saturn 73011-09-26 08:39 G 28388047.72 28388047.86 28388048.02 0.0279 0.0040

Saturn 73011-12-23 23:46 G 28388136.38 28388136.49 28388136.61 0.0280 0.0180

Moon 73012-03-24 03:22 G 28388227.56 28388227.64 28388227.73 0.2630 0.2035

Earth 73012-03-24 04:34 G 28388227.60 28388227.69 28388227.77 0.2633 0.2066 *

Jupiter 73015-05-09 16:05 G 28389369.02 28389369.17 28389369.32 0.0486 0.0088

Earth 73016-09-16 23:17 G 28389865.34 28389865.47 28389865.59 0.2701 0.0342

Moon 73016-09-17 00:15 G 28389865.39 28389865.51 28389865.64 0.2701 0.0241 *

Earth 73019-03-17 13:55 G 28390777.00 28390777.08 28390777.16 0.2630 0.2034

Moon 73019-03-17 14:39 G 28390777.03 28390777.11 28390777.20 0.2625 0.1972 *

Mars 73019-11-29 03:07 G 28391033.55 28391033.63 28391033.71 0.1800 0.1334

Mars 73020-10-13 14:53 G 28391352.99 28391353.12 28391353.26 0.1710 0.0751

Jupiter 73021-04-13 00:58 G 28391534.52 28391534.54 28391534.57 0.0541 0.0530

Jupiter 73021-07-11 21:07 G 28391624.28 28391624.38 28391624.49 0.0542 0.0372

Saturn 73025-08-11 19:27 G 28393116.21 28393116.31 28393116.42 0.0281 0.0207

Saturn 73025-11-08 12:15 G 28393204.85 28393205.01 28393205.16 0.0281 0.0056

Saturn 73026-02-05 04:19 G 28393293.53 28393293.68 28393293.83 0.0280 0.0091

Saturn 73026-05-04 20:10 G 28393382.26 28393382.34 28393382.42 0.0280 0.0234

Jupiter 73027-02-25 18:29 G 28393679.12 28393679.27 28393679.42 0.0487 0.0076

Earth 73029-09-19 20:39 G 28394616.25 28394616.36 28394616.48 0.2701 0.1090

Moon 73029-09-19 21:22 G 28394616.28 28394616.39 28394616.50 0.2696 0.1123 *

Mars 73030-03-05 18:29 G 28394783.12 28394783.27 28394783.42 0.1716 0.0175

Mars 73031-03-27 04:48 G 28395169.61 28395169.70 28395169.78 0.1819 0.1313

Moon 73032-03-19 12:29 G 28395527.89 28395528.02 28395528.15 0.2625 0.0644

Earth 73032-03-19 12:15 G 28395527.89 28395528.01 28395528.14 0.2631 0.0625 *

Uranus 73032-11-04 02:53 G 28395757.55 28395757.62 28395757.71 0.0135 0.0114

Uranus 73033-01-31 07:41 G 28395845.71 28395845.82 28395845.93 0.0135 0.0092

Uranus 73033-04-29 12:15 G 28395933.88 28395934.01 28395934.14 0.0135 0.0071

Jupiter 73033-04-29 21:36 G 28395934.26 28395934.40 28395934.55 0.0542 0.0147

Uranus 73033-07-26 16:34 G 28396022.05 28396022.19 28396022.34 0.0135 0.0050

Uranus 73033-10-22 21:07 G 28396110.24 28396110.38 28396110.54 0.0135 0.0029

Uranus 73034-01-19 01:41 G 28396198.42 28396198.57 28396198.73 0.0135 0.0008

Uranus 73034-04-17 06:15 G 28396286.61 28396286.76 28396286.91 0.0135 0.0013

Uranus 73034-07-14 10:34 G 28396374.79 28396374.94 28396375.09 0.0135 0.0034

Uranus 73034-10-10 14:53 G 28396462.98 28396463.12 28396463.26 0.0135 0.0054

Uranus 73035-01-06 19:12 G 28396551.18 28396551.30 28396551.43 0.0135 0.0075

Uranus 73035-04-04 23:31 G 28396639.38 28396639.48 28396639.59 0.0135 0.0095

Uranus 73035-07-02 03:36 G 28396727.59 28396727.65 28396727.74 0.0135 0.0116

Uranus 73035-09-28 08:10 G 28396815.84 28396815.84 28396815.85 0.0136 0.0135

Venus 73038-02-21 03:36 G 28397692.59 28397692.65 28397692.71 0.3703 0.3193

Jupiter 73038-12-14 21:07 G 28397989.25 28397989.38 28397989.51 0.0487 0.0234

Jupiter 73039-03-14 09:36 G 28398078.82 28398078.90 28398078.97 0.0486 0.0422

Mars 73039-07-26 21:36 G 28398213.29 28398213.40 28398213.51 0.1722 0.1138

Mars 73040-08-16 11:46 G 28398599.87 28398599.99 28398600.11 0.1813 0.0424

Saturn 73040-08-19 06:29 G 28398602.73 28398602.77 28398602.83 0.0278 0.0261

Saturn 73040-11-15 20:53 G 28398691.24 28398691.37 28398691.51 0.0278 0.0127

Saturn 73041-02-12 11:31 G 28398779.83 28398779.98 28398780.13 0.0279 0.0010

Saturn 73041-05-12 02:24 G 28398868.47 28398868.60 28398868.73 0.0279 0.0152

Earth 73042-09-22 18:00 G 28399367.20 28399367.25 28399367.29 0.2700 0.2464

Moon 73042-09-22 18:00 G 28399367.21 28399367.25 28399367.29 0.2692 0.2530 *

Venus 73043-09-07 00:15 G 28399716.39 28399716.51 28399716.63 0.3702 0.0779

Jupiter 73045-02-15 22:05 G 28400244.27 28400244.42 28400244.57 0.0542 0.0081

Moon 73045-03-22 10:19 G 28400278.80 28400278.93 28400279.05 0.2626 0.0837

Earth 73045-03-22 11:03 G 28400278.83 28400278.96 28400279.08 0.2632 0.0842 *

Earth 73049-09-15 06:58 G 28401916.68 28401916.79 28401916.89 0.2702 0.1528

Moon 73049-09-15 07:41 G 28401916.72 28401916.82 28401916.92 0.2706 0.1509 *

Mars 73050-01-06 19:12 G 28402030.18 28402030.30 28402030.43 0.1806 0.0430

Jupiter 73050-10-03 00:00 G 28402299.42 28402299.50 28402299.59 0.0487 0.0389

Jupiter 73050-12-31 12:00 G 28402388.88 28402389.00 28402389.13 0.0486 0.0261

Saturn 73054-12-29 19:55 G 28403848.26 28403848.33 28403848.39 0.0280 0.0254

Saturn 73055-03-28 12:43 G 28403936.88 28403937.03 28403937.17 0.0280 0.0102

Saturn 73055-06-25 04:48 G 28404025.55 28404025.70 28404025.86 0.0280 0.0047

Saturn 73055-09-21 20:53 G 28404114.25 28404114.37 28404114.48 0.0279 0.0189

Venus 73056-04-17 13:55 G 28404322.97 28404323.08 28404323.18 0.3668 0.1740

Jupiter 73056-12-04 23:03 G 28404554.33 28404554.46 28404554.58 0.0542 0.0298

Moon 73058-03-25 08:53 G 28405029.80 28405029.87 28405029.95 0.2632 0.2164

Earth 73058-03-25 10:05 G 28405029.86 28405029.92 28405029.97 0.2633 0.2357 *

Mars 73059-05-30 03:07 G 28405460.54 28405460.63 28405460.72 0.1800 0.1242

Mars 73060-04-13 15:22 G 28405780.02 28405780.14 28405780.27 0.1710 0.0877

Venus 73061-11-01 09:51 G 28406346.81 28406346.91 28406347.01 0.3669 0.2011

Earth 73062-09-18 04:34 G 28406667.56 28406667.69 28406667.81 0.2701 0.0064

Moon 73062-09-18 05:31 G 28406667.61 28406667.73 28406667.86 0.2701 0.0084 *

Jupiter 73062-10-19 14:24 G 28406698.95 28406699.10 28406699.25 0.0486 0.0096

Earth 73065-03-17 19:27 G 28407579.21 28407579.31 28407579.41 0.2630 0.1765

Moon 73065-03-17 20:10 G 28407579.24 28407579.34 28407579.44 0.2625 0.1663 *

Jupiter 73068-09-22 23:46 G 28408864.45 28408864.49 28408864.53 0.0541 0.0516

Jupiter 73068-12-21 20:10 G 28408954.24 28408954.34 28408954.44 0.0543 0.0389

Mars 73069-09-03 18:58 G 28409210.14 28409210.29 28409210.44 0.1715 0.0055

Saturn 73070-04-04 20:39 G 28409423.25 28409423.36 28409423.48 0.0279 0.0180

Saturn 73070-07-02 11:17 G 28409511.82 28409511.97 28409512.12 0.0279 0.0044

Mars 73070-09-25 04:34 G 28409596.61 28409596.69 28409596.77 0.1819 0.1398

Saturn 73070-09-29 01:55 G 28409600.44 28409600.58 28409600.73 0.0279 0.0096

Saturn 73070-12-26 17:03 G 28409689.14 28409689.21 28409689.29 0.0280 0.0239

Uranus 73073-11-16 08:39 G 28410744.79 28410744.86 28410744.94 0.0143 0.0125

Uranus 73074-02-12 13:55 G 28410832.98 28410833.08 28410833.20 0.0143 0.0101

Uranus 73074-05-11 19:12 G 28410921.17 28410921.30 28410921.44 0.0143 0.0076

Jupiter 73074-08-07 17:17 G 28411009.07 28411009.22 28411009.37 0.0486 0.0065

Uranus 73074-08-08 00:43 G 28411009.38 28411009.53 28411009.68 0.0143 0.0051

Uranus 73074-11-04 06:00 G 28411097.60 28411097.75 28411097.91 0.0143 0.0026

Uranus 73075-01-31 11:31 G 28411185.82 28411185.98 28411186.14 0.0143 0.0001

Uranus 73075-04-29 17:03 G 28411274.05 28411274.21 28411274.37 0.0143 0.0025

Uranus 73075-07-26 22:34 G 28411362.29 28411362.44 28411362.59 0.0143 0.0051

Earth 73075-09-21 01:55 G 28411418.48 28411418.58 28411418.69 0.2700 0.1353

Moon 73075-09-21 02:24 G 28411418.50 28411418.60 28411418.71 0.2695 0.1413 *

Uranus 73075-10-23 04:05 G 28411450.53 28411450.67 28411450.81 0.0143 0.0077

Uranus 73076-01-19 09:36 G 28411538.79 28411538.90 28411539.01 0.0143 0.0103

Uranus 73076-04-16 15:07 G 28411627.07 28411627.13 28411627.21 0.0143 0.0129

Moon 73078-03-20 17:31 G 28412330.10 28412330.23 28412330.37 0.2625 0.0366

Earth 73078-03-20 17:46 G 28412330.11 28412330.24 28412330.37 0.2631 0.0347 *

Mars 73079-01-24 22:05 G 28412640.30 28412640.42 28412640.55 0.1722 0.1007

Mars 73080-02-15 12:00 G 28413026.88 28413027.00 28413027.12 0.1813 0.0530

Jupiter 73080-10-09 20:24 G 28413264.21 28413264.35 28413264.50 0.0542 0.0163

Saturn 73084-08-14 12:58 G 28414668.91 28414669.04 28414669.18 0.0281 0.0148

Saturn 73084-11-11 05:31 G 28414757.57 28414757.73 28414757.89 0.0281 0.0004

Saturn 73085-02-07 21:36 G 28414846.27 28414846.40 28414846.53 0.0280 0.0149

Jupiter 73086-05-26 19:41 G 28415319.18 28415319.32 28415319.45 0.0487 0.0228

Jupiter 73086-08-24 07:55 G 28415408.76 28415408.83 28415408.90 0.0486 0.0429

Neptune 73087-12-31 05:46 G 28415902.69 28415902.74 28415902.80 0.0090 0.0083

Neptune 73088-03-28 07:55 G 28415990.75 28415990.83 28415990.93 0.0090 0.0074

Neptune 73088-06-24 10:19 G 28416078.82 28416078.93 28416079.04 0.0090 0.0065

Neptune 73088-09-20 12:29 G 28416166.90 28416167.02 28416167.14 0.0090 0.0056

Moon 73088-09-22 23:03 G 28416169.45 28416169.46 28416169.48 0.2693 0.2663

Neptune 73088-12-17 14:24 G 28416254.98 28416255.10 28416255.24 0.0090 0.0047

Neptune 73089-03-15 16:34 G 28416343.06 28416343.19 28416343.34 0.0090 0.0038

Neptune 73089-06-11 18:43 G 28416431.14 28416431.28 28416431.43 0.0090 0.0030

Mars 73089-07-07 19:27 G 28416457.18 28416457.31 28416457.43 0.1806 0.0325

Neptune 73089-09-07 20:53 G 28416519.22 28416519.37 28416519.53 0.0090 0.0021

Neptune 73089-12-04 23:03 G 28416607.31 28416607.46 28416607.62 0.0090 0.0012

Neptune 73090-03-03 01:12 G 28416695.39 28416695.55 28416695.70 0.0090 0.0003

Neptune 73090-05-30 03:22 G 28416783.48 28416783.64 28416783.79 0.0090 0.0006

Neptune 73090-08-26 05:17 G 28416871.57 28416871.72 28416871.88 0.0090 0.0014

Neptune 73090-11-22 07:27 G 28416959.66 28416959.81 28416959.96 0.0090 0.0023

Neptune 73091-02-18 09:22 G 28417047.75 28417047.89 28417048.04 0.0090 0.0032

Moon 73091-03-23 15:51 G 28417081.03 28417081.16 28417081.28 0.2627 0.0991

Earth 73091-03-23 16:34 G 28417081.07 28417081.19 28417081.31 0.2632 0.1127 *

Neptune 73091-05-17 11:17 G 28417135.84 28417135.97 28417136.12 0.0090 0.0041

Neptune 73091-08-13 13:27 G 28417223.94 28417224.06 28417224.19 0.0090 0.0049

Neptune 73091-11-09 15:22 G 28417312.03 28417312.14 28417312.27 0.0090 0.0057

Neptune 73092-02-05 17:31 G 28417400.13 28417400.23 28417400.34 0.0089 0.0066

Neptune 73092-05-03 19:12 G 28417488.23 28417488.30 28417488.40 0.0089 0.0075

Jupiter 73092-07-28 20:53 G 28417574.22 28417574.37 28417574.52 0.0541 0.0068

Neptune 73092-07-30 21:22 G 28417576.34 28417576.39 28417576.46 0.0089 0.0083

Venus 73094-09-28 02:24 G 28418365.50 28418365.60 28418365.71 0.3703 0.1717

Earth 73095-09-16 12:15 G 28418718.90 28418719.01 28418719.12 0.2702 0.1249

Moon 73095-09-16 13:12 G 28418718.93 28418719.05 28418719.16 0.2704 0.1068 *

Jupiter 73098-03-14 22:19 G 28419629.34 28419629.43 28419629.52 0.0487 0.0385

Jupiter 73098-06-12 10:19 G 28419718.81 28419718.93 28419719.06 0.0486 0.0265

Mars 73098-11-28 03:07 G 28419887.53 28419887.63 28419887.72 0.1800 0.1145

Saturn 73099-08-22 23:46 G 28420155.40 28420155.49 28420155.60 0.0278 0.0203

Mars 73099-10-13 15:51 G 28420207.04 28420207.16 28420207.28 0.1710 0.0992

Saturn 73099-11-19 14:10 G 28420243.95 28420244.09 28420244.24 0.0278 0.0069

Saturn 73100-02-16 05:03 G 28420332.56 28420332.71 28420332.86 0.0279 0.0071

Venus 73100-04-13 22:48 G 28420389.36 28420389.45 28420389.55 0.3702 0.2196

Saturn 73100-05-15 19:55 G 28420421.24 28420421.33 28420421.43 0.0279 0.0214

Moon 73104-03-26 14:24 G 28421832.10 28421832.10 28421832.11 0.2634 0.2622

Jupiter 73104-05-17 20:53 G 28421884.24 28421884.37 28421884.49 0.0541 0.0302

Earth 73108-09-19 09:51 G 28423469.79 28423469.91 28423470.04 0.2701 0.0217

Moon 73108-09-19 10:48 G 28423469.83 28423469.95 28423470.08 0.2700 0.0271 *

Mars 73109-03-05 19:27 G 28423637.16 28423637.31 28423637.46 0.1716 0.0077

Mars 73110-03-27 04:48 G 28424023.63 28424023.70 28424023.77 0.1819 0.1508

Jupiter 73110-04-01 12:58 G 28424028.90 28424029.04 28424029.19 0.0486 0.0106

Earth 73111-03-20 00:58 G 28424381.43 28424381.54 28424381.64 0.2630 0.1499

Moon 73111-03-20 01:27 G 28424381.45 28424381.56 28424381.67 0.2625 0.1475 *

Venus 73112-11-23 12:15 G 28424995.89 28424996.01 28424996.13 0.3668 0.0400

Saturn 73114-01-02 13:55 G 28425400.97 28425401.08 28425401.20 0.0280 0.0189

Saturn 73114-04-01 06:29 G 28425489.62 28425489.77 28425489.93 0.0280 0.0039

Saturn 73114-06-28 22:48 G 28425578.30 28425578.45 28425578.59 0.0280 0.0108

Saturn 73114-09-25 14:24 G 28425667.04 28425667.10 28425667.17 0.0279 0.0250

Jupiter 73116-03-05 21:22 G 28426194.36 28426194.39 28426194.43 0.0541 0.0524

Jupiter 73116-06-03 17:46 G 28426284.14 28426284.24 28426284.35 0.0543 0.0383

Uranus 73116-08-29 05:17 G 28426370.68 28426370.72 28426370.77 0.0135 0.0129

Uranus 73116-11-25 10:05 G 28426458.83 28426458.92 28426459.01 0.0135 0.0107

Uranus 73117-02-21 14:39 G 28426546.99 28426547.11 28426547.23 0.0135 0.0086

Uranus 73117-05-20 19:12 G 28426635.17 28426635.30 28426635.44 0.0135 0.0065

Uranus 73117-08-16 23:46 G 28426723.34 28426723.49 28426723.64 0.0135 0.0044

Uranus 73117-11-13 04:19 G 28426811.53 28426811.68 28426811.83 0.0135 0.0023

Uranus 73118-02-09 08:39 G 28426899.71 28426899.86 28426900.02 0.0135 0.0004

Uranus 73118-05-08 13:12 G 28426987.90 28426988.05 28426988.20 0.0135 0.0019

Venus 73118-06-09 08:24 G 28427019.81 28427019.85 28427019.90 0.3670 0.3410

Mars 73118-07-26 22:48 G 28427067.32 28427067.45 28427067.58 0.1722 0.0869

Uranus 73118-08-04 17:31 G 28427076.09 28427076.23 28427076.38 0.0135 0.0040

Uranus 73118-10-31 21:51 G 28427164.28 28427164.41 28427164.55 0.0135 0.0061

Uranus 73119-01-28 02:24 G 28427252.48 28427252.60 28427252.72 0.0135 0.0081

Uranus 73119-04-26 06:29 G 28427340.68 28427340.77 28427340.88 0.0135 0.0101

Uranus 73119-07-23 10:34 G 28427428.89 28427428.94 28427429.02 0.0135 0.0122

Mars 73119-08-17 11:46 G 28427453.88 28427453.99 28427454.11 0.1813 0.0624

Earth 73121-09-22 07:12 G 28428220.71 28428220.80 28428220.90 0.2700 0.1623

Moon 73121-09-22 07:41 G 28428220.73 28428220.82 28428220.92 0.2694 0.1682 *

Jupiter 73122-01-18 15:36 G 28428339.00 28428339.15 28428339.30 0.0486 0.0059

Moon 73124-03-21 23:03 G 28429132.32 28429132.46 28429132.59 0.2625 0.0112

Earth 73124-03-21 23:17 G 28429132.34 28429132.47 28429132.60 0.2631 0.0068 *

Jupiter 73128-03-22 19:12 G 28430594.15 28430594.30 28430594.44 0.0542 0.0173

Earth 73128-09-14 19:41 G 28430770.27 28430770.32 28430770.37 0.2703 0.2469

Moon 73128-09-14 20:10 G 28430770.28 28430770.34 28430770.40 0.2709 0.2365 *

Pluto 73128-12-11 09:22 G 28430857.88 28430857.89 28430857.94 0.0064 0.0063

Mars 73129-01-06 19:12 G 28430884.18 28430884.30 28430884.43 0.1806 0.0236

Saturn 73129-01-10 00:00 G 28430887.44 28430887.50 28430887.56 0.0278 0.0253

Pluto 73129-03-09 10:05 G 28430945.85 28430945.92 28430946.03 0.0064 0.0053

Saturn 73129-04-08 14:10 G 28430975.96 28430976.09 28430976.23 0.0279 0.0119

Pluto 73129-06-05 11:03 G 28431033.85 28431033.96 28431034.09 0.0064 0.0042

Saturn 73129-07-06 04:48 G 28431064.55 28431064.70 28431064.85 0.0279 0.0018

Pluto 73129-09-01 12:00 G 28431121.87 28431122.00 28431122.14 0.0064 0.0031

Saturn 73129-10-02 19:41 G 28431153.19 28431153.32 28431153.44 0.0279 0.0159

Pluto 73129-11-28 12:58 G 28431209.89 28431210.04 28431210.19 0.0064 0.0020

Pluto 73130-02-24 13:41 G 28431297.92 28431298.07 28431298.23 0.0065 0.0009

Pluto 73130-05-23 14:24 G 28431385.95 28431386.10 28431386.26 0.0065 0.0002

Pluto 73130-08-19 15:07 G 28431473.98 28431474.13 28431474.29 0.0065 0.0013

Pluto 73130-11-15 15:51 G 28431562.03 28431562.16 28431562.32 0.0065 0.0024

Pluto 73131-02-11 16:34 G 28431650.07 28431650.19 28431650.33 0.0065 0.0035

Pluto 73131-05-10 17:17 G 28431738.13 28431738.22 28431738.35 0.0065 0.0046

Pluto 73131-08-06 18:29 G 28431826.20 28431826.27 28431826.34 0.0065 0.0056

Jupiter 73133-11-06 18:15 G 28432649.13 28432649.26 28432649.40 0.0487 0.0217

Jupiter 73134-02-04 06:43 G 28432738.71 28432738.78 28432738.84 0.0486 0.0439

Moon 73137-03-24 21:07 G 28433883.27 28433883.38 28433883.50 0.2628 0.1354

Earth 73137-03-24 22:05 G 28433883.31 28433883.42 28433883.53 0.2632 0.1414 *

Mars 73138-05-30 03:07 G 28434314.53 28434314.63 28434314.73 0.1800 0.1040

Mars 73139-04-14 16:19 G 28434634.06 28434634.18 28434634.29 0.1710 0.1111

Jupiter 73140-01-09 19:27 G 28434904.16 28434904.31 28434904.46 0.0541 0.0055

Earth 73141-09-17 17:31 G 28435521.12 28435521.23 28435521.35 0.2702 0.0970

Moon 73141-09-17 18:43 G 28435521.16 28435521.28 28435521.39 0.2704 0.0954 *

Saturn 73143-05-22 14:10 G 28436133.01 28436133.09 28436133.18 0.0281 0.0236

Saturn 73143-08-19 06:58 G 28436221.64 28436221.79 28436221.95 0.0281 0.0084

Saturn 73143-11-15 23:31 G 28436310.32 28436310.48 28436310.63 0.0281 0.0065

Saturn 73144-02-12 15:22 G 28436399.04 28436399.14 28436399.24 0.0280 0.0209

Earth 73144-03-17 08:10 G 28436432.83 28436432.84 28436432.85 0.2630 0.2613

Moon 73144-03-17 09:07 G 28436432.86 28436432.88 28436432.89 0.2626 0.2600

Jupiter 73145-08-25 20:39 G 28436959.27 28436959.36 28436959.45 0.0488 0.0382

Jupiter 73145-11-23 08:39 G 28437048.73 28437048.86 28437048.99 0.0486 0.0269

Mars 73148-09-03 19:55 G 28438064.18 28438064.33 28438064.48 0.1716 0.0202

Mars 73149-09-25 04:48 G 28438450.65 28438450.70 28438450.76 0.1819 0.1611

Venus 73151-05-06 01:12 G 28439038.43 28439038.55 28439038.67 0.3703 0.0261

Jupiter 73151-10-28 19:41 G 28439214.19 28439214.32 28439214.45 0.0541 0.0287

Earth 73154-09-20 15:22 G 28440272.01 28440272.14 28440272.26 0.2701 0.0489

Moon 73154-09-20 16:05 G 28440272.05 28440272.17 28440272.29 0.2698 0.0636 *

Venus 73156-11-18 21:36 G 28441062.37 28441062.40 28441062.42 0.3701 0.3591

Earth 73157-03-20 06:15 G 28441183.65 28441183.76 28441183.88 0.2630 0.1231

Moon 73157-03-20 06:43 G 28441183.66 28441183.78 28441183.90 0.2625 0.1129 *

Uranus 73157-09-10 10:34 G 28441357.94 28441357.94 28441357.94 0.0143 0.0143

Jupiter 73157-09-11 11:03 G 28441358.81 28441358.96 28441359.11 0.0486 0.0107

Uranus 73157-12-07 15:36 G 28441446.07 28441446.15 28441446.24 0.0143 0.0119

Mars 73158-01-24 23:03 G 28441494.33 28441494.46 28441494.60 0.1722 0.0752

Uranus 73158-03-05 20:53 G 28441534.26 28441534.37 28441534.50 0.0143 0.0094

Saturn 73158-05-30 03:22 G 28441619.62 28441619.64 28441619.66 0.0278 0.0274

Uranus 73158-06-02 02:24 G 28441622.46 28441622.60 28441622.74 0.0143 0.0069

Saturn 73158-08-26 17:31 G 28441708.11 28441708.23 28441708.36 0.0278 0.0142

Uranus 73158-08-29 07:41 G 28441710.67 28441710.82 28441710.97 0.0143 0.0044

Saturn 73158-11-23 08:10 G 28441796.69 28441796.84 28441796.99 0.0279 0.0008

Uranus 73158-11-25 12:58 G 28441798.89 28441799.04 28441799.20 0.0143 0.0019

Mars 73159-02-15 12:00 G 28441880.88 28441881.00 28441881.11 0.1813 0.0724

Saturn 73159-02-19 22:48 G 28441885.32 28441885.45 28441885.59 0.0279 0.0135

Uranus 73159-02-21 18:29 G 28441887.11 28441887.27 28441887.43 0.0143 0.0006

Saturn 73159-05-19 13:55 G 28441974.08 28441974.08 28441974.09 0.0279 0.0279

Uranus 73159-05-21 00:00 G 28441975.34 28441975.50 28441975.65 0.0143 0.0032

Uranus 73159-08-17 05:17 G 28442063.58 28442063.72 28442063.87 0.0143 0.0058

Uranus 73159-11-13 10:48 G 28442151.83 28442151.95 28442152.09 0.0143 0.0084

Uranus 73160-02-09 16:19 G 28442240.09 28442240.18 28442240.29 0.0143 0.0110

Uranus 73160-05-07 22:05 G 28442328.38 28442328.42 28442328.47 0.0142 0.0136

Jupiter 73163-08-16 19:12 G 28443524.27 28443524.30 28443524.33 0.0541 0.0529

Jupiter 73163-11-14 15:36 G 28443614.04 28443614.15 28443614.26 0.0542 0.0376

Venus 73163-12-15 14:53 G 28443645.04 28443645.12 28443645.20 0.3667 0.2707

Earth 73167-09-23 12:29 G 28445022.94 28445023.02 28445023.11 0.2700 0.1885

Moon 73167-09-23 12:58 G 28445022.96 28445023.04 28445023.13 0.2694 0.1890 *

Mars 73168-07-07 19:27 G 28445311.18 28445311.31 28445311.43 0.1806 0.0130

Venus 73169-06-30 10:48 G 28445668.84 28445668.95 28445669.07 0.3669 0.0983

Jupiter 73169-06-30 13:55 G 28445668.93 28445669.08 28445669.23 0.0487 0.0052 *

Moon 73170-03-23 04:19 G 28445934.55 28445934.68 28445934.82 0.2625 0.0133

Earth 73170-03-23 04:48 G 28445934.57 28445934.70 28445934.83 0.2631 0.0213 *

Neptune 73170-09-13 04:05 G 28446108.63 28446108.67 28446108.73 0.0088 0.0083

Neptune 73170-12-10 06:00 G 28446196.68 28446196.75 28446196.85 0.0088 0.0075

Neptune 73171-03-08 08:10 G 28446284.75 28446284.84 28446284.95 0.0088 0.0067

Neptune 73171-06-04 10:34 G 28446372.82 28446372.94 28446373.06 0.0088 0.0058

Neptune 73171-08-31 12:29 G 28446460.90 28446461.02 28446461.16 0.0088 0.0050

Neptune 73171-11-27 14:39 G 28446548.98 28446549.11 28446549.26 0.0088 0.0042

Neptune 73172-02-23 17:03 G 28446637.06 28446637.21 28446637.35 0.0088 0.0033

Neptune 73172-05-21 18:58 G 28446725.14 28446725.29 28446725.45 0.0088 0.0025

Neptune 73172-08-17 21:07 G 28446813.23 28446813.38 28446813.54 0.0088 0.0017

Saturn 73172-10-08 15:36 G 28446865.12 28446865.15 28446865.18 0.0281 0.0274

Neptune 73172-11-13 23:17 G 28446901.32 28446901.47 28446901.63 0.0088 0.0008

Saturn 73173-01-05 08:24 G 28446953.71 28446953.85 28446954.00 0.0280 0.0121

Neptune 73173-02-10 01:27 G 28446989.40 28446989.56 28446989.73 0.0088 0.0003

Saturn 73173-04-04 00:58 G 28447042.38 28447042.54 28447042.70 0.0280 0.0028

Neptune 73173-05-09 03:51 G 28447077.50 28447077.66 28447077.82 0.0088 0.0009

Saturn 73173-07-01 16:48 G 28447131.09 28447131.20 28447131.33 0.0280 0.0173

Neptune 73173-08-05 05:46 G 28447165.59 28447165.74 28447165.91 0.0088 0.0018

Neptune 73173-11-01 08:10 G 28447253.69 28447253.84 28447253.99 0.0088 0.0026

Neptune 73174-01-28 10:05 G 28447341.78 28447341.92 28447342.08 0.0088 0.0035

Neptune 73174-04-26 12:15 G 28447429.88 28447430.01 28447430.16 0.0088 0.0044

Neptune 73174-07-23 14:39 G 28447517.99 28447518.11 28447518.25 0.0088 0.0052

Earth 73174-09-16 00:58 G 28447572.47 28447572.54 28447572.62 0.2702 0.2185

Moon 73174-09-16 01:41 G 28447572.50 28447572.57 28447572.64 0.2707 0.2161 *

Neptune 73174-10-19 16:48 G 28447606.09 28447606.20 28447606.33 0.0088 0.0061

Neptune 73175-01-15 18:58 G 28447694.21 28447694.29 28447694.40 0.0088 0.0070

Neptune 73175-04-13 21:36 G 28447782.33 28447782.40 28447782.47 0.0088 0.0078

Neptune 73175-07-10 23:31 G 28447870.48 28447870.48 28447870.51 0.0088 0.0087

Jupiter 73175-09-02 16:34 G 28447924.05 28447924.19 28447924.33 0.0542 0.0161

Mars 73177-11-28 03:07 G 28448741.52 28448741.63 28448741.73 0.1799 0.0956

Mars 73178-10-13 16:48 G 28449061.10 28449061.20 28449061.30 0.1710 0.1235

Jupiter 73181-04-18 16:34 G 28449979.05 28449979.19 28449979.32 0.0487 0.0214

Jupiter 73181-07-17 04:48 G 28450068.64 28450068.70 28450068.76 0.0485 0.0441

Moon 73183-03-26 02:39 G 28450685.50 28450685.61 28450685.71 0.2630 0.1604

Earth 73183-03-26 03:36 G 28450685.55 28450685.65 28450685.75 0.2632 0.1705 *

Mars 73187-04-20 11:17 G 28452171.94 28452171.97 28452171.99 0.1793 0.1733

Jupiter 73187-06-21 17:46 G 28452234.09 28452234.24 28452234.39 0.0542 0.0053

Earth 73187-09-18 23:03 G 28452323.33 28452323.46 28452323.58 0.2702 0.0700

Moon 73187-09-19 00:00 G 28452323.37 28452323.50 28452323.62 0.2704 0.0514 *

Saturn 73188-01-13 18:00 G 28452440.14 28452440.25 28452440.36 0.0278 0.0189

Mars 73188-03-04 20:24 G 28452491.20 28452491.35 28452491.50 0.1715 0.0328

Saturn 73188-04-11 08:24 G 28452528.70 28452528.85 28452528.99 0.0279 0.0054

Saturn 73188-07-08 23:03 G 28452617.31 28452617.46 28452617.60 0.0279 0.0085

Saturn 73188-10-05 13:55 G 28452706.00 28452706.08 28452706.17 0.0279 0.0227

Mars 73189-03-26 04:48 G 28452877.66 28452877.70 28452877.74 0.1819 0.1701

Earth 73190-03-18 13:27 G 28453235.01 28453235.06 28453235.12 0.2630 0.2358

Moon 73190-03-18 14:24 G 28453235.03 28453235.10 28453235.17 0.2626 0.2181 *

Jupiter 73193-02-04 19:12 G 28454289.21 28454289.30 28454289.40 0.0487 0.0372

Jupiter 73193-05-05 07:12 G 28454378.68 28454378.80 28454378.93 0.0486 0.0278

Mars 73197-07-25 23:31 G 28455921.34 28455921.48 28455921.62 0.1722 0.0625

Mars 73198-08-16 12:00 G 28456307.89 28456308.00 28456308.11 0.1813 0.0824

Jupiter 73199-04-09 18:00 G 28456544.13 28456544.25 28456544.38 0.0541 0.0278

Uranus 73200-09-18 12:00 G 28457071.95 28457072.00 28457072.07 0.0135 0.0124

Earth 73200-09-20 20:39 G 28457074.24 28457074.36 28457074.48 0.2701 0.0755

Moon 73200-09-20 21:22 G 28457074.27 28457074.39 28457074.51 0.2697 0.0752 *

Uranus 73200-12-15 16:48 G 28457160.10 28457160.20 28457160.31 0.0135 0.0102

Uranus 73201-03-13 21:22 G 28457248.27 28457248.39 28457248.52 0.0135 0.0081

Uranus 73201-06-10 02:10 G 28457336.45 28457336.59 28457336.73 0.0135 0.0059

Uranus 73201-09-06 06:29 G 28457424.63 28457424.77 28457424.93 0.0135 0.0039

Uranus 73201-12-03 11:03 G 28457512.81 28457512.96 28457513.12 0.0135 0.0018

Uranus 73202-03-01 15:36 G 28457601.00 28457601.15 28457601.30 0.0135 0.0004

Saturn 73202-05-25 08:39 G 28457685.74 28457685.86 28457685.99 0.0281 0.0169

Venus 73202-05-27 03:22 G 28457687.56 28457687.64 28457687.71 0.3704 0.2811

Uranus 73202-05-28 19:55 G 28457689.18 28457689.33 28457689.49 0.0135 0.0025

Saturn 73202-08-22 01:12 G 28457774.40 28457774.55 28457774.71 0.0281 0.0020

Uranus 73202-08-25 00:15 G 28457777.37 28457777.51 28457777.66 0.0135 0.0046

Saturn 73202-11-18 17:31 G 28457863.09 28457863.23 28457863.37 0.0281 0.0129

Uranus 73202-11-21 04:48 G 28457865.57 28457865.70 28457865.83 0.0135 0.0066

Saturn 73203-02-15 09:22 G 28457951.86 28457951.89 28457951.92 0.0280 0.0272

Uranus 73203-02-17 08:53 G 28457953.77 28457953.87 28457954.00 0.0135 0.0087

Moon 73203-03-21 11:46 G 28457985.87 28457985.99 28457986.12 0.2624 0.1018

Earth 73203-03-21 11:46 G 28457985.87 28457985.99 28457986.11 0.2631 0.0960 *

Uranus 73203-05-16 13:12 G 28458041.97 28458042.05 28458042.15 0.0136 0.0107

Uranus 73203-08-12 17:31 G 28458130.19 28458130.23 28458130.29 0.0136 0.0127

Jupiter 73205-02-21 09:22 G 28458688.74 28458688.89 28458689.04 0.0487 0.0108

Mars 73206-12-16 02:24 G 28459351.55 28459351.60 28459351.65 0.1728 0.1608

Venus 73207-12-11 00:00 G 28459711.38 28459711.50 28459711.61 0.3703 0.1178

Mars 73208-01-06 19:27 G 28459738.18 28459738.31 28459738.43 0.1806 0.0034

Jupiter 73211-01-26 18:00 G 28460854.21 28460854.25 28460854.30 0.0540 0.0512

Jupiter 73211-04-26 14:24 G 28460944.00 28460944.10 28460944.20 0.0542 0.0390

Earth 73213-09-23 18:00 G 28461825.17 28461825.25 28461825.32 0.2700 0.2147

Moon 73213-09-23 18:15 G 28461825.19 28461825.26 28461825.33 0.2694 0.2216 *

Moon 73216-03-23 09:51 G 28462736.78 28462736.91 28462737.04 0.2625 0.0496

Earth 73216-03-23 10:19 G 28462736.80 28462736.93 28462737.06 0.2631 0.0491 *

Jupiter 73216-12-10 11:46 G 28462998.84 28462998.99 28462999.14 0.0487 0.0055

Mars 73217-05-29 03:07 G 28463168.52 28463168.63 28463168.74 0.1800 0.0850

Saturn 73217-06-01 21:07 G 28463172.29 28463172.38 28463172.49 0.0278 0.0211

Saturn 73217-08-29 11:31 G 28463260.84 28463260.98 28463261.13 0.0278 0.0077

Saturn 73217-11-26 02:10 G 28463349.45 28463349.59 28463349.74 0.0279 0.0062

Saturn 73218-02-22 17:17 G 28463438.12 28463438.22 28463438.32 0.0279 0.0203

Pluto 73218-02-23 14:53 G 28463439.04 28463439.12 28463439.21 0.0080 0.0067

Mars 73218-04-13 17:03 G 28463488.12 28463488.21 28463488.30 0.1710 0.1351

Pluto 73218-05-22 16:34 G 28463527.07 28463527.19 28463527.33 0.0080 0.0046

Pluto 73218-08-18 18:29 G 28463615.12 28463615.27 28463615.42 0.0080 0.0024

Pluto 73218-11-14 20:10 G 28463703.18 28463703.34 28463703.50 0.0080 0.0003

Pluto 73219-02-10 21:51 G 28463791.26 28463791.41 28463791.57 0.0080 0.0018

Pluto 73219-05-09 23:31 G 28463879.34 28463879.48 28463879.62 0.0080 0.0039

Pluto 73219-08-06 01:12 G 28463967.45 28463967.55 28463967.66 0.0079 0.0060

Venus 73220-07-21 13:27 G 28464317.95 28464318.06 28464318.17 0.3668 0.1373

Earth 73220-09-16 06:29 G 28464374.68 28464374.77 28464374.86 0.2702 0.1903

Moon 73220-09-16 07:12 G 28464374.71 28464374.80 28464374.89 0.2707 0.1800 *

Jupiter 73223-02-12 14:24 G 28465253.95 28465254.10 28465254.24 0.0542 0.0155

Venus 73226-02-04 09:22 G 28466341.80 28466341.89 28466341.98 0.3669 0.2350

Mars 73226-10-19 11:03 G 28466598.92 28466598.96 28466599.01 0.1793 0.1640

Mars 73227-09-03 20:39 G 28466918.22 28466918.36 28466918.51 0.1716 0.0442

Mars 73228-09-24 04:48 G 28467304.69 28467304.70 28467304.71 0.1819 0.1805

Jupiter 73228-09-28 14:39 G 28467308.98 28467309.11 28467309.25 0.0487 0.0211

Jupiter 73228-12-27 03:07 G 28467398.57 28467398.63 28467398.68 0.0486 0.0446

Moon 73229-03-26 07:55 G 28467487.74 28467487.83 28467487.93 0.2631 0.1846

Earth 73229-03-26 09:07 G 28467487.80 28467487.88 28467487.97 0.2632 0.1991 *

Saturn 73231-10-12 10:34 G 28468417.83 28468417.94 28468418.06 0.0281 0.0201

Saturn 73232-01-09 03:22 G 28468506.48 28468506.64 28468506.80 0.0280 0.0050

Saturn 73232-04-06 19:41 G 28468595.17 28468595.32 28468595.47 0.0280 0.0097

Saturn 73232-07-04 11:17 G 28468683.90 28468683.97 28468684.06 0.0280 0.0241

Earth 73233-09-19 04:19 G 28469125.56 28469125.68 28469125.80 0.2702 0.0414

Moon 73233-09-19 05:17 G 28469125.60 28469125.72 28469125.84 0.2702 0.0380 *

Jupiter 73234-12-01 15:07 G 28469563.98 28469564.13 28469564.28 0.0542 0.0065

Earth 73236-03-18 18:58 G 28470037.21 28470037.29 28470037.37 0.2630 0.2088

Moon 73236-03-18 19:41 G 28470037.24 28470037.32 28470037.40 0.2626 0.2072 *

Mars 73237-01-24 00:15 G 28470348.36 28470348.51 28470348.65 0.1722 0.0488

Mars 73238-02-14 12:00 G 28470734.89 28470735.00 28470735.11 0.1813 0.0917

Jupiter 73240-07-17 17:31 G 28471619.13 28471619.23 28471619.32 0.0487 0.0370

Jupiter 73240-10-15 05:17 G 28471708.60 28471708.72 28471708.85 0.0486 0.0279

Uranus 73241-09-30 17:31 G 28472059.19 28472059.23 28472059.28 0.0143 0.0136

Uranus 73241-12-27 22:48 G 28472147.36 28472147.45 28472147.55 0.0143 0.0112

Uranus 73242-03-26 04:05 G 28472235.55 28472235.67 28472235.80 0.0143 0.0087

Uranus 73242-06-22 09:22 G 28472323.75 28472323.89 28472324.03 0.0143 0.0062

Uranus 73242-09-18 14:39 G 28472411.96 28472412.11 28472412.27 0.0143 0.0038

Uranus 73242-12-15 20:10 G 28472500.18 28472500.34 28472500.50 0.0143 0.0012

Uranus 73243-03-14 01:27 G 28472588.41 28472588.56 28472588.72 0.0143 0.0014

Uranus 73243-06-10 06:58 G 28472676.64 28472676.79 28472676.94 0.0143 0.0039

Uranus 73243-09-06 12:29 G 28472764.88 28472765.02 28472765.16 0.0143 0.0065

Uranus 73243-12-03 17:46 G 28472853.13 28472853.24 28472853.38 0.0143 0.0091

Uranus 73244-02-29 23:17 G 28472941.39 28472941.47 28472941.58 0.0143 0.0117

Uranus 73244-05-28 05:17 G 28473029.72 28473029.72 28473029.72 0.0142 0.0142

Mars 73246-06-16 02:53 G 28473778.54 28473778.62 28473778.70 0.1728 0.1482

Jupiter 73246-09-19 15:51 G 28473874.04 28473874.16 28473874.29 0.0541 0.0283

Earth 73246-09-22 01:55 G 28473876.46 28473876.58 28473876.69 0.2701 0.1019

Moon 73246-09-22 02:39 G 28473876.50 28473876.61 28473876.72 0.2696 0.1178 *

Saturn 73246-10-19 21:51 G 28473904.36 28473904.41 28473904.48 0.0278 0.0255

Saturn 73247-01-16 12:15 G 28473992.88 28473993.01 28473993.14 0.0278 0.0122

Saturn 73247-04-15 02:39 G 28474081.46 28474081.61 28474081.76 0.0279 0.0015

Mars 73247-07-07 19:27 G 28474165.18 28474165.31 28474165.43 0.1806 0.0073

Saturn 73247-07-12 17:31 G 28474170.10 28474170.23 28474170.36 0.0279 0.0155

Moon 73249-03-21 17:03 G 28474788.09 28474788.21 28474788.34 0.2624 0.0610

Earth 73249-03-21 17:03 G 28474788.09 28474788.21 28474788.34 0.2631 0.0693 *

Neptune 73252-07-01 02:53 G 28475985.59 28475985.62 28475985.68 0.0090 0.0086

Jupiter 73252-08-03 07:55 G 28476018.68 28476018.83 28476018.98 0.0486 0.0117

Neptune 73252-09-27 05:17 G 28476073.65 28476073.72 28476073.81 0.0090 0.0077

Neptune 73252-12-24 07:27 G 28476161.72 28476161.81 28476161.92 0.0090 0.0068

Neptune 73253-03-22 09:36 G 28476249.79 28476249.90 28476250.03 0.0090 0.0059

Neptune 73253-06-18 11:46 G 28476337.87 28476337.99 28476338.13 0.0090 0.0050

Neptune 73253-09-14 14:10 G 28476425.95 28476426.09 28476426.23 0.0090 0.0041

Neptune 73253-12-11 16:19 G 28476514.03 28476514.18 28476514.32 0.0090 0.0032

Neptune 73254-03-09 18:15 G 28476602.12 28476602.26 28476602.42 0.0090 0.0024

Neptune 73254-06-05 20:24 G 28476690.20 28476690.35 28476690.51 0.0090 0.0015

Neptune 73254-09-01 22:34 G 28476778.29 28476778.44 28476778.60 0.0090 0.0006

Neptune 73254-11-29 00:43 G 28476866.38 28476866.53 28476866.69 0.0090 0.0003

Neptune 73255-02-25 02:53 G 28476954.46 28476954.62 28476954.77 0.0090 0.0012

Neptune 73255-05-24 04:48 G 28477042.55 28477042.70 28477042.85 0.0090 0.0020

Neptune 73255-08-20 06:58 G 28477130.64 28477130.79 28477130.94 0.0090 0.0029

Neptune 73255-11-16 08:53 G 28477218.74 28477218.87 28477219.02 0.0090 0.0038

Neptune 73256-02-12 10:48 G 28477306.83 28477306.95 28477307.09 0.0090 0.0047

Neptune 73256-05-10 12:58 G 28477394.93 28477395.04 28477395.17 0.0090 0.0055

Neptune 73256-08-06 14:53 G 28477483.02 28477483.12 28477483.24 0.0090 0.0063

Neptune 73256-11-02 17:03 G 28477571.13 28477571.21 28477571.30 0.0090 0.0072

Mars 73256-11-27 03:07 G 28477595.52 28477595.63 28477595.75 0.1800 0.0753

Neptune 73257-01-29 19:12 G 28477659.23 28477659.30 28477659.37 0.0089 0.0080

Neptune 73257-04-27 20:53 G 28477747.36 28477747.37 28477747.40 0.0089 0.0089

Mars 73257-10-12 17:31 G 28477915.15 28477915.23 28477915.30 0.1710 0.1465

Jupiter 73258-07-08 16:19 G 28478184.13 28478184.18 28478184.23 0.0540 0.0506

Jupiter 73258-10-06 12:43 G 28478273.93 28478274.03 28478274.13 0.0542 0.0397

Venus 73259-01-01 02:10 G 28478360.47 28478360.59 28478360.70 0.3704 0.1349

Moon 73259-09-24 23:17 G 28478627.41 28478627.47 28478627.53 0.2694 0.2340

Earth 73259-09-24 23:03 G 28478627.41 28478627.46 28478627.52 0.2700 0.2406 *

Saturn 73261-02-28 10:34 G 28479149.87 28479149.94 28479150.01 0.0281 0.0251

Saturn 73261-05-28 03:22 G 28479238.50 28479238.64 28479238.79 0.0281 0.0098

Saturn 73261-08-24 19:55 G 28479327.18 28479327.33 28479327.49 0.0281 0.0051

Saturn 73261-11-21 12:00 G 28479415.89 28479416.00 28479416.11 0.0280 0.0196

Moon 73262-03-24 15:07 G 28479539.00 28479539.13 28479539.26 0.2627 0.0632

Earth 73262-03-24 15:51 G 28479539.03 28479539.16 28479539.28 0.2631 0.0773 *

Jupiter 73264-05-22 09:51 G 28480328.76 28480328.91 28480329.07 0.0487 0.0055

Venus 73264-07-16 22:34 G 28480384.35 28480384.44 28480384.52 0.3702 0.2572

Mars 73266-04-19 11:03 G 28481025.90 28481025.96 28481026.03 0.1793 0.1543

Earth 73266-09-17 11:46 G 28481176.89 28481176.99 28481177.09 0.2702 0.1621

Moon 73266-09-17 12:43 G 28481176.92 28481177.03 28481177.13 0.2707 0.1543 *

Mars 73267-03-04 21:07 G 28481345.24 28481345.38 28481345.53 0.1716 0.0573

Jupiter 73270-07-25 13:12 G 28482583.91 28482584.05 28482584.19 0.0542 0.0170

Venus 73271-08-12 16:05 G 28482967.16 28482967.17 28482967.18 0.3667 0.3646

Moon 73275-03-27 13:41 G 28484289.99 28484290.07 28484290.14 0.2631 0.2209

Earth 73275-03-27 14:39 G 28484290.05 28484290.11 28484290.18 0.2632 0.2284 *

Saturn 73276-03-08 01:12 G 28484636.55 28484636.55 28484636.57 0.0278 0.0277

Jupiter 73276-03-10 12:29 G 28484638.89 28484639.02 28484639.16 0.0487 0.0214

Saturn 73276-06-04 15:22 G 28484725.02 28484725.14 28484725.27 0.0278 0.0145

Jupiter 73276-06-08 00:43 G 28484728.48 28484728.53 28484728.60 0.0486 0.0443

Mars 73276-07-25 00:29 G 28484775.37 28484775.52 28484775.67 0.1722 0.0376

Saturn 73276-09-01 06:00 G 28484813.60 28484813.75 28484813.90 0.0278 0.0010

Saturn 73276-11-28 20:39 G 28484902.23 28484902.36 28484902.50 0.0279 0.0131

Venus 73277-02-25 12:00 G 28484990.88 28484991.00 28484991.12 0.3668 0.0047

Saturn 73277-02-25 11:46 G 28484990.97 28484990.99 28484991.02 0.0279 0.0274 *

Mars 73277-08-15 12:00 G 28485161.90 28485162.00 28485162.10 0.1813 0.1017

Earth 73279-09-20 09:36 G 28485927.78 28485927.90 28485928.03 0.2702 0.0151

Moon 73279-09-20 10:34 G 28485927.82 28485927.94 28485928.07 0.2700 0.0033 *

Earth 73282-03-20 00:15 G 28486839.42 28486839.51 28486839.61 0.2630 0.1824

Moon 73282-03-20 00:58 G 28486839.44 28486839.54 28486839.64 0.2625 0.1708 *

Jupiter 73282-05-13 12:43 G 28486893.88 28486894.03 28486894.18 0.0541 0.0072

Uranus 73284-10-08 18:58 G 28487773.22 28487773.29 28487773.37 0.0135 0.0118

Uranus 73285-01-04 23:46 G 28487861.38 28487861.49 28487861.60 0.0135 0.0097

Uranus 73285-04-03 04:19 G 28487949.55 28487949.68 28487949.81 0.0135 0.0075

Uranus 73285-06-30 08:53 G 28488037.73 28488037.87 28488038.01 0.0135 0.0054

Uranus 73285-09-26 13:27 G 28488125.91 28488126.06 28488126.21 0.0135 0.0033

Mars 73285-12-15 03:22 G 28488205.55 28488205.64 28488205.74 0.1728 0.1350

Uranus 73285-12-23 18:00 G 28488214.09 28488214.25 28488214.40 0.0135 0.0012

Uranus 73286-03-21 22:19 G 28488302.28 28488302.43 28488302.59 0.0135 0.0010

Uranus 73286-06-18 02:53 G 28488390.47 28488390.62 28488390.77 0.0135 0.0030

Uranus 73286-09-14 07:12 G 28488478.66 28488478.80 28488478.95 0.0135 0.0051

Uranus 73286-12-11 11:31 G 28488566.86 28488566.98 28488567.12 0.0135 0.0071

Mars 73287-01-05 19:27 G 28488592.19 28488592.31 28488592.44 0.1806 0.0165

Uranus 73287-03-09 15:51 G 28488655.06 28488655.16 28488655.28 0.0136 0.0092

Uranus 73287-06-05 20:10 G 28488743.26 28488743.34 28488743.43 0.0136 0.0112

Uranus 73287-09-02 00:29 G 28488831.49 28488831.52 28488831.56 0.0136 0.0132

Jupiter 73287-12-28 15:36 G 28488949.05 28488949.15 28488949.25 0.0488 0.0368

Jupiter 73288-03-27 03:22 G 28489038.52 28489038.64 28489038.77 0.0486 0.0282

Saturn 73290-07-18 12:58 G 28489882.03 28489882.04 28489882.05 0.0281 0.0279

Saturn 73290-10-15 05:46 G 28489970.60 28489970.74 28489970.89 0.0281 0.0127

Saturn 73291-01-11 22:19 G 28490059.28 28490059.43 28490059.59 0.0280 0.0024

Saturn 73291-04-10 14:24 G 28490147.98 28490148.10 28490148.23 0.0280 0.0168

Earth 73292-09-22 07:12 G 28490678.69 28490678.80 28490678.91 0.2701 0.1288

Moon 73292-09-22 07:55 G 28490678.72 28490678.83 28490678.94 0.2696 0.1282 *

Jupiter 73294-03-01 13:12 G 28491203.93 28491204.05 28491204.18 0.0541 0.0297

Moon 73295-03-22 22:34 G 28491590.31 28491590.44 28491590.57 0.2624 0.0490

Earth 73295-03-22 22:34 G 28491590.31 28491590.44 28491590.57 0.2631 0.0415 *

Mars 73296-05-28 03:07 G 28492022.51 28492022.63 28492022.74 0.1799 0.0662

Mars 73297-04-12 18:00 G 28492342.20 28492342.25 28492342.30 0.1710 0.1589

Jupiter 73300-01-14 06:00 G 28493348.60 28493348.75 28493348.89 0.0486 0.0118

Earth 73305-09-26 04:19 G 28495429.67 28495429.68 28495429.70 0.2700 0.2665

Mars 73305-10-19 11:03 G 28495452.89 28495452.96 28495453.04 0.1793 0.1450

Saturn 73305-10-23 16:19 G 28495457.07 28495457.18 28495457.29 0.0278 0.0188

Jupiter 73305-12-19 13:55 G 28495514.04 28495514.08 28495514.12 0.0541 0.0517

Saturn 73306-01-20 06:43 G 28495545.63 28495545.78 28495545.92 0.0279 0.0054

Jupiter 73306-03-19 10:19 G 28495603.84 28495603.93 28495604.04 0.0543 0.0391

Saturn 73306-04-18 21:07 G 28495634.24 28495634.38 28495634.53 0.0279 0.0085

Saturn 73306-07-16 12:15 G 28495722.92 28495723.01 28495723.10 0.0279 0.0227

Mars 73306-09-03 21:36 G 28495772.27 28495772.40 28495772.54 0.1716 0.0689

Moon 73308-03-25 20:24 G 28496341.23 28496341.35 28496341.47 0.2628 0.1046

Earth 73308-03-25 21:22 G 28496341.27 28496341.39 28496341.51 0.2632 0.1056 *

Jupiter 73311-11-03 08:39 G 28497658.70 28497658.86 28497659.01 0.0487 0.0047

Earth 73312-09-18 17:17 G 28497979.11 28497979.22 28497979.33 0.2702 0.1337

Moon 73312-09-18 18:00 G 28497979.14 28497979.25 28497979.36 0.2706 0.1262 *

Venus 73315-08-09 00:43 G 28499033.41 28499033.53 28499033.65 0.3703 0.0133

Mars 73316-01-25 00:58 G 28499202.39 28499202.54 28499202.69 0.1722 0.0247

Mars 73317-02-14 12:15 G 28499588.91 28499589.01 28499589.10 0.1813 0.1122

Jupiter 73318-01-05 11:31 G 28499913.84 28499913.98 28499914.12 0.0542 0.0175

Saturn 73320-03-04 05:46 G 28500702.62 28500702.74 28500702.86 0.0281 0.0177

Saturn 73320-05-31 22:34 G 28500791.28 28500791.44 28500791.60 0.0281 0.0026

Saturn 73320-08-28 14:39 G 28500879.97 28500880.11 28500880.26 0.0280 0.0122

Saturn 73320-11-25 06:29 G 28500968.73 28500968.77 28500968.83 0.0280 0.0264

Moon 73321-03-28 19:12 G 28501092.25 28501092.30 28501092.35 0.2631 0.2398

Earth 73321-03-28 20:10 G 28501092.32 28501092.34 28501092.37 0.2632 0.2573 *

Jupiter 73323-08-22 10:34 G 28501968.81 28501968.94 28501969.08 0.0487 0.0214

Jupiter 73323-11-19 22:48 G 28502058.39 28502058.45 28502058.52 0.0486 0.0443

Mars 73325-06-16 03:51 G 28502632.55 28502632.66 28502632.77 0.1728 0.1221

Earth 73325-09-21 15:07 G 28502730.00 28502730.13 28502730.25 0.2701 0.0161

Moon 73325-09-21 16:05 G 28502730.04 28502730.17 28502730.29 0.2699 0.0234 *

Uranus 73325-10-22 00:43 G 28502760.48 28502760.53 28502760.60 0.0143 0.0129

Uranus 73326-01-18 06:15 G 28502848.65 28502848.76 28502848.86 0.0143 0.0104

Uranus 73326-04-16 11:17 G 28502936.84 28502936.97 28502937.10 0.0143 0.0080

Mars 73326-07-07 19:27 G 28503019.19 28503019.31 28503019.44 0.1806 0.0266

Uranus 73326-07-13 16:34 G 28503025.05 28503025.19 28503025.34 0.0143 0.0055

Uranus 73326-10-09 21:51 G 28503113.26 28503113.41 28503113.57 0.0143 0.0030

Uranus 73327-01-06 03:22 G 28503201.48 28503201.64 28503201.80 0.0143 0.0005

Uranus 73327-04-04 08:39 G 28503289.71 28503289.86 28503290.02 0.0143 0.0021

Uranus 73327-07-01 14:10 G 28503377.94 28503378.09 28503378.24 0.0143 0.0046

Uranus 73327-09-27 19:27 G 28503466.18 28503466.31 28503466.46 0.0143 0.0072

Uranus 73327-12-25 00:58 G 28503554.43 28503554.54 28503554.67 0.0143 0.0098

Venus 73328-03-19 14:39 G 28503640.02 28503640.11 28503640.20 0.3667 0.2324

Earth 73328-03-21 05:46 G 28503641.64 28503641.74 28503641.85 0.2630 0.1552

Moon 73328-03-21 06:15 G 28503641.65 28503641.76 28503641.87 0.2624 0.1521 *

Uranus 73328-03-22 06:29 G 28503642.70 28503642.77 28503642.86 0.0143 0.0124

Jupiter 73329-10-24 11:46 G 28504223.84 28504223.99 28504224.14 0.0541 0.0055

Venus 73333-10-03 10:34 G 28505663.83 28505663.94 28505664.05 0.3668 0.1339

Saturn 73335-03-12 19:27 G 28506189.22 28506189.31 28506189.40 0.0278 0.0212

Neptune 73335-03-15 01:27 G 28506191.53 28506191.56 28506191.61 0.0088 0.0085

Saturn 73335-06-09 09:36 G 28506277.76 28506277.90 28506278.05 0.0278 0.0079

Jupiter 73335-06-10 13:27 G 28506278.97 28506279.06 28506279.16 0.0488 0.0372

Neptune 73335-06-11 03:36 G 28506279.58 28506279.65 28506279.73 0.0088 0.0077

Saturn 73335-09-06 00:15 G 28506366.36 28506366.51 28506366.66 0.0279 0.0059

Neptune 73335-09-07 05:31 G 28506367.65 28506367.73 28506367.84 0.0088 0.0069

Jupiter 73335-09-08 01:12 G 28506368.43 28506368.55 28506368.68 0.0486 0.0278

Mars 73335-11-28 03:07 G 28506449.51 28506449.63 28506449.75 0.1800 0.0565

Saturn 73335-12-03 15:07 G 28506455.03 28506455.13 28506455.24 0.0279 0.0200

Neptune 73335-12-04 07:41 G 28506455.72 28506455.82 28506455.94 0.0088 0.0061

Neptune 73336-03-01 10:05 G 28506543.79 28506543.92 28506544.04 0.0088 0.0052

Neptune 73336-05-28 12:00 G 28506631.87 28506632.00 28506632.14 0.0088 0.0044

Neptune 73336-08-24 14:10 G 28506719.95 28506720.09 28506720.24 0.0088 0.0036

Mars 73336-10-12 18:15 G 28506769.25 28506769.26 28506769.28 0.1710 0.1699

Neptune 73336-11-20 16:19 G 28506808.03 28506808.18 28506808.33 0.0088 0.0027

Neptune 73337-02-16 18:29 G 28506896.12 28506896.27 28506896.43 0.0088 0.0019

Neptune 73337-05-15 20:39 G 28506984.20 28506984.36 28506984.52 0.0088 0.0010

Neptune 73337-08-11 22:48 G 28507072.29 28507072.45 28507072.61 0.0088 0.0002

Neptune 73337-11-08 00:58 G 28507160.38 28507160.54 28507160.70 0.0088 0.0007

Neptune 73338-02-04 03:07 G 28507248.48 28507248.63 28507248.79 0.0088 0.0015

Neptune 73338-05-03 05:17 G 28507336.57 28507336.72 28507336.88 0.0088 0.0024

Neptune 73338-07-30 07:27 G 28507424.67 28507424.81 28507424.97 0.0088 0.0033

Earth 73338-09-24 12:29 G 28507480.92 28507481.02 28507481.12 0.2701 0.1551

Moon 73338-09-24 12:58 G 28507480.94 28507481.04 28507481.14 0.2695 0.1665 *

Neptune 73338-10-26 09:36 G 28507512.77 28507512.90 28507513.05 0.0088 0.0041

Neptune 73339-01-22 11:46 G 28507600.87 28507600.99 28507601.13 0.0088 0.0050

Neptune 73339-04-20 13:55 G 28507688.97 28507689.08 28507689.21 0.0088 0.0059

Neptune 73339-07-17 16:19 G 28507777.08 28507777.18 28507777.29 0.0088 0.0067

Neptune 73339-10-13 18:29 G 28507865.20 28507865.27 28507865.36 0.0088 0.0076

Neptune 73340-01-09 20:39 G 28507953.34 28507953.36 28507953.42 0.0088 0.0085

Moon 73341-03-24 04:05 G 28508392.53 28508392.67 28508392.80 0.2625 0.0116

Earth 73341-03-24 04:05 G 28508392.54 28508392.67 28508392.80 0.2631 0.0141 *

Jupiter 73341-08-12 11:03 G 28508533.83 28508533.96 28508534.08 0.0541 0.0303

Mars 73345-04-19 11:17 G 28509879.89 28509879.97 28509880.04 0.1793 0.1352

Earth 73345-09-17 00:29 G 28510030.49 28510030.52 28510030.56 0.2703 0.2566

Moon 73345-09-17 01:12 G 28510030.51 28510030.55 28510030.58 0.2709 0.2594 *

Mars 73346-03-04 22:05 G 28510199.29 28510199.42 28510199.55 0.1716 0.0807

Jupiter 73347-06-27 04:05 G 28510678.52 28510678.67 28510678.82 0.0486 0.0119

Saturn 73349-07-22 08:24 G 28511434.74 28511434.85 28511434.96 0.0281 0.0202

Saturn 73349-10-19 01:12 G 28511523.39 28511523.55 28511523.71 0.0280 0.0051

Saturn 73350-01-15 17:31 G 28511612.08 28511612.23 28511612.38 0.0280 0.0096

Saturn 73350-04-14 09:22 G 28511700.82 28511700.89 28511700.97 0.0280 0.0239

Jupiter 73353-05-31 11:17 G 28512843.95 28512843.97 28512843.99 0.0541 0.0533

Jupiter 73353-08-29 07:55 G 28512933.72 28512933.83 28512933.93 0.0542 0.0375

Moon 73354-03-27 01:55 G 28513143.46 28513143.58 28513143.70 0.2628 0.1161

Earth 73354-03-27 02:53 G 28513143.51 28513143.62 28513143.73 0.2632 0.1346 *

Mars 73355-07-26 01:41 G 28513629.41 28513629.57 28513629.72 0.1722 0.0124

Mars 73356-08-15 12:00 G 28514015.91 28514016.00 28514016.09 0.1812 0.1211

Earth 73358-09-19 22:34 G 28514781.33 28514781.44 28514781.56 0.2702 0.1057

Moon 73358-09-19 23:31 G 28514781.36 28514781.48 28514781.60 0.2705 0.0919 *

Jupiter 73359-04-15 06:43 G 28514988.63 28514988.78 28514988.93 0.0487 0.0045

Moon 73361-03-19 14:10 G 28515693.06 28515693.09 28515693.12 0.2627 0.2539

Saturn 73364-07-29 20:24 G 28516921.30 28516921.35 28516921.42 0.0278 0.0253

Saturn 73364-10-26 10:34 G 28517009.81 28517009.94 28517010.08 0.0278 0.0120

Mars 73364-12-15 04:19 G 28517059.56 28517059.68 28517059.80 0.1728 0.1094

Saturn 73365-01-23 01:12 G 28517098.40 28517098.55 28517098.70 0.0279 0.0017

Saturn 73365-04-21 15:51 G 28517187.04 28517187.16 28517187.29 0.0279 0.0156

Jupiter 73365-06-17 08:53 G 28517243.73 28517243.87 28517244.02 0.0542 0.0164

Mars 73366-01-05 19:27 G 28517446.19 28517446.31 28517446.43 0.1806 0.0352

Venus 73366-08-30 02:53 G 28517682.53 28517682.62 28517682.71 0.3704 0.2444

Uranus 73368-08-02 20:53 G 28518386.37 28518386.37 28518386.38 0.0135 0.0135

Uranus 73368-10-30 01:41 G 28518474.49 28518474.57 28518474.65 0.0135 0.0113

Uranus 73369-01-26 06:15 G 28518562.65 28518562.76 28518562.88 0.0135 0.0092

Uranus 73369-04-24 10:48 G 28518650.82 28518650.95 28518651.09 0.0135 0.0071

Uranus 73369-07-21 15:36 G 28518739.00 28518739.15 28518739.29 0.0135 0.0049

Uranus 73369-10-17 20:10 G 28518827.18 28518827.34 28518827.49 0.0135 0.0028

Uranus 73370-01-14 00:29 G 28518915.37 28518915.52 28518915.68 0.0135 0.0008

Uranus 73370-04-12 05:03 G 28519003.56 28519003.71 28519003.87 0.0135 0.0014

Uranus 73370-07-09 09:22 G 28519091.75 28519091.89 28519092.05 0.0135 0.0035

Uranus 73370-10-05 13:41 G 28519179.94 28519180.07 28519180.22 0.0135 0.0056

Uranus 73371-01-01 18:15 G 28519268.14 28519268.26 28519268.39 0.0136 0.0076

Jupiter 73371-02-01 09:22 G 28519298.75 28519298.89 28519299.03 0.0487 0.0203

Uranus 73371-03-30 22:34 G 28519356.34 28519356.44 28519356.55 0.0136 0.0096

Jupiter 73371-05-01 21:36 G 28519388.34 28519388.40 28519388.45 0.0486 0.0452

Uranus 73371-06-27 02:39 G 28519444.55 28519444.61 28519444.70 0.0136 0.0117

Earth 73371-09-22 20:24 G 28519532.22 28519532.35 28519532.47 0.2702 0.0408

Moon 73371-09-22 21:22 G 28519532.27 28519532.39 28519532.51 0.2699 0.0513 *

Venus 73372-03-14 23:31 G 28519706.37 28519706.48 28519706.59 0.3703 0.1551

Earth 73374-03-22 11:17 G 28520443.85 28520443.97 28520444.08 0.2630 0.1288

Moon 73374-03-22 11:31 G 28520443.87 28520443.98 28520444.10 0.2624 0.1244 *

Pluto 73374-08-12 00:00 G 28520586.50 28520586.50 28520586.50 0.0064 0.0064

Pluto 73374-11-08 00:43 G 28520674.45 28520674.53 28520674.62 0.0064 0.0053

Pluto 73375-02-04 01:41 G 28520762.45 28520762.57 28520762.68 0.0064 0.0043

Pluto 73375-05-03 02:10 G 28520850.46 28520850.59 28520850.74 0.0064 0.0032

Mars 73375-05-29 03:22 G 28520876.52 28520876.64 28520876.76 0.1800 0.0462

Pluto 73375-07-30 02:53 G 28520938.49 28520938.62 28520938.78 0.0064 0.0022

Pluto 73375-10-26 03:51 G 28521026.51 28521026.66 28521026.82 0.0064 0.0011

Pluto 73376-01-22 04:48 G 28521114.54 28521114.70 28521114.86 0.0065 0.0001

Pluto 73376-04-19 05:31 G 28521202.58 28521202.73 28521202.89 0.0065 0.0012

Pluto 73376-07-16 06:15 G 28521290.62 28521290.76 28521290.91 0.0065 0.0023

Pluto 73376-10-12 07:12 G 28521378.67 28521378.80 28521378.93 0.0065 0.0033

Pluto 73377-01-08 07:55 G 28521466.72 28521466.83 28521466.95 0.0065 0.0044

Jupiter 73377-04-05 09:51 G 28521553.76 28521553.91 28521554.06 0.0541 0.0052

Pluto 73377-04-06 08:39 G 28521554.79 28521554.86 28521554.95 0.0065 0.0055

Saturn 73378-12-09 07:55 G 28522166.77 28522166.83 28522166.90 0.0281 0.0256

Saturn 73379-03-08 00:58 G 28522255.39 28522255.54 28522255.69 0.0281 0.0103

Saturn 73379-06-04 17:31 G 28522344.07 28522344.23 28522344.38 0.0280 0.0046

Saturn 73379-09-01 09:22 G 28522432.79 28522432.89 28522433.01 0.0280 0.0191

Jupiter 73382-11-20 11:31 G 28523608.89 28523608.98 28523609.08 0.0488 0.0371

Jupiter 73383-02-17 23:17 G 28523698.35 28523698.47 28523698.60 0.0486 0.0279

Earth 73384-09-24 17:46 G 28524283.15 28524283.24 28524283.33 0.2701 0.1819

Moon 73384-09-24 18:00 G 28524283.16 28524283.25 28524283.35 0.2694 0.1814 *

Mars 73384-10-18 11:03 G 28524306.88 28524306.96 28524307.05 0.1793 0.1259

Venus 73384-10-24 13:12 G 28524312.93 28524313.05 28524313.16 0.3667 0.0995

Mars 73385-09-02 22:34 G 28524626.31 28524626.44 28524626.56 0.1716 0.0931

Moon 73387-03-25 09:22 G 28525194.75 28525194.89 28525195.02 0.2625 0.0106

Earth 73387-03-25 09:36 G 28525194.77 28525194.90 28525195.03 0.2631 0.0158 *

Jupiter 73389-01-22 10:05 G 28525863.79 28525863.92 28525864.05 0.0541 0.0283

Venus 73390-05-10 09:07 G 28526336.80 28526336.88 28526336.96 0.3669 0.2710

Earth 73391-09-18 06:00 G 28526832.68 28526832.75 28526832.82 0.2703 0.2281

Moon 73391-09-18 06:29 G 28526832.70 28526832.77 28526832.85 0.2709 0.2145 *

Saturn 73394-03-15 13:27 G 28527741.93 28527742.06 28527742.18 0.0278 0.0149

Saturn 73394-06-12 03:36 G 28527830.50 28527830.65 28527830.81 0.0278 0.0015

Saturn 73394-09-08 18:15 G 28527919.13 28527919.26 28527919.40 0.0279 0.0127

Saturn 73394-12-06 09:22 G 28528007.86 28528007.89 28528007.93 0.0279 0.0269

Jupiter 73394-12-07 01:55 G 28528008.43 28528008.58 28528008.73 0.0487 0.0116

Mars 73395-01-24 01:55 G 28528056.43 28528056.58 28528056.73 0.1722 0.0019

Mars 73396-02-14 12:15 G 28528442.92 28528443.01 28528443.09 0.1813 0.1312

Moon 73400-03-28 07:27 G 28529945.70 28529945.81 28529945.91 0.2628 0.1607

Earth 73400-03-28 08:24 G 28529945.75 28529945.85 28529945.95 0.2632 0.1630 *

Jupiter 73400-11-11 09:07 G 28530173.86 28530173.88 28530173.89 0.0540 0.0536

Jupiter 73401-02-09 05:46 G 28530263.63 28530263.74 28530263.84 0.0542 0.0371

Mars 73404-06-16 04:48 G 28531486.58 28531486.70 28531486.83 0.1728 0.0967

Earth 73404-09-21 04:05 G 28531583.55 28531583.67 28531583.79 0.2702 0.0774

Moon 73404-09-21 05:03 G 28531583.59 28531583.71 28531583.83 0.2703 0.0736 *

Mars 73405-07-07 19:41 G 28531873.20 28531873.32 28531873.44 0.1806 0.0459

Jupiter 73406-09-26 04:48 G 28532318.55 28532318.70 28532318.85 0.0487 0.0041

Earth 73407-03-21 18:29 G 28532495.22 28532495.27 28532495.32 0.2630 0.2401

Moon 73407-03-21 19:27 G 28532495.25 28532495.31 28532495.36 0.2626 0.2374 *

Saturn 73408-04-28 10:48 G 28532898.94 28532898.95 28532898.97 0.0281 0.0279

Saturn 73408-07-26 03:51 G 28532987.52 28532987.66 28532987.80 0.0281 0.0126

Saturn 73408-10-22 20:24 G 28533076.19 28533076.35 28533076.51 0.0280 0.0023

Saturn 73409-01-19 12:29 G 28533164.90 28533165.02 28533165.15 0.0280 0.0168

Uranus 73409-11-12 07:55 G 28533461.76 28533461.83 28533461.92 0.0143 0.0122

Uranus 73410-02-08 13:12 G 28533549.94 28533550.05 28533550.17 0.0143 0.0098

Uranus 73410-05-07 18:29 G 28533638.14 28533638.27 28533638.41 0.0143 0.0073

Uranus 73410-08-03 23:46 G 28533726.34 28533726.49 28533726.64 0.0143 0.0048

Uranus 73410-10-31 05:03 G 28533814.56 28533814.71 28533814.87 0.0143 0.0023

Uranus 73411-01-27 10:19 G 28533902.78 28533902.93 28533903.09 0.0143 0.0005

Uranus 73411-04-25 15:51 G 28533991.00 28533991.16 28533991.32 0.0143 0.0028

Uranus 73411-07-22 21:22 G 28534079.24 28534079.39 28534079.53 0.0143 0.0053

Uranus 73411-10-19 02:39 G 28534167.48 28534167.61 28534167.75 0.0143 0.0079

Uranus 73412-01-15 08:10 G 28534255.74 28534255.84 28534255.95 0.0143 0.0104

Uranus 73412-04-12 13:41 G 28534344.01 28534344.07 28534344.14 0.0143 0.0130

Jupiter 73412-11-28 06:15 G 28534573.62 28534573.76 28534573.91 0.0542 0.0150

Mars 73414-11-28 03:07 G 28535303.51 28535303.63 28535303.75 0.1799 0.0377

Neptune 73417-01-01 00:43 G 28536068.50 28536068.53 28536068.56 0.0090 0.0088

Neptune 73417-03-30 02:53 G 28536156.55 28536156.62 28536156.70 0.0090 0.0079

Neptune 73417-06-26 05:03 G 28536244.62 28536244.71 28536244.81 0.0090 0.0070

Neptune 73417-09-22 07:12 G 28536332.69 28536332.80 28536332.92 0.0090 0.0061

Earth 73417-09-24 01:41 G 28536334.45 28536334.57 28536334.69 0.2701 0.0679

Moon 73417-09-24 02:39 G 28536334.49 28536334.61 28536334.73 0.2699 0.0788 *

Neptune 73417-12-19 09:07 G 28536420.77 28536420.88 28536421.02 0.0090 0.0053

Neptune 73418-03-17 11:17 G 28536508.85 28536508.97 28536509.12 0.0090 0.0044

Neptune 73418-06-13 13:41 G 28536596.93 28536597.07 28536597.22 0.0090 0.0034

Jupiter 73418-07-15 07:27 G 28536628.68 28536628.81 28536628.95 0.0487 0.0202

Neptune 73418-09-09 15:51 G 28536685.01 28536685.16 28536685.31 0.0090 0.0026

Jupiter 73418-10-12 19:27 G 28536718.27 28536718.31 28536718.37 0.0486 0.0454

Neptune 73418-12-06 18:00 G 28536773.10 28536773.25 28536773.41 0.0090 0.0017

Neptune 73419-03-04 20:10 G 28536861.19 28536861.34 28536861.50 0.0090 0.0008

Neptune 73419-05-31 22:19 G 28536949.27 28536949.43 28536949.58 0.0090 0.0001

Neptune 73419-08-28 00:29 G 28537037.36 28537037.52 28537037.67 0.0090 0.0010

Neptune 73419-11-24 02:24 G 28537125.45 28537125.60 28537125.75 0.0090 0.0018

Neptune 73420-02-20 04:34 G 28537213.54 28537213.69 28537213.84 0.0090 0.0027

Earth 73420-03-23 16:34 G 28537246.07 28537246.19 28537246.31 0.2630 0.1018

Moon 73420-03-23 17:03 G 28537246.09 28537246.21 28537246.33 0.2624 0.0960 *

Neptune 73420-05-18 06:29 G 28537301.63 28537301.77 28537301.92 0.0090 0.0036

Neptune 73420-08-14 08:39 G 28537389.73 28537389.86 28537390.00 0.0090 0.0044

Neptune 73420-11-10 10:34 G 28537477.82 28537477.94 28537478.07 0.0090 0.0053

Neptune 73421-02-06 12:43 G 28537565.92 28537566.03 28537566.14 0.0090 0.0061

Neptune 73421-05-05 14:39 G 28537654.02 28537654.11 28537654.21 0.0090 0.0070

Neptune 73421-08-01 16:48 G 28537742.13 28537742.20 28537742.27 0.0090 0.0078

Neptune 73421-10-28 18:29 G 28537830.25 28537830.27 28537830.32 0.0090 0.0087

Venus 73423-04-07 01:41 G 28538355.45 28538355.57 28538355.69 0.3704 0.0953

Saturn 73423-08-03 14:24 G 28538474.00 28538474.10 28538474.21 0.0278 0.0189

Saturn 73423-10-31 04:48 G 28538562.55 28538562.70 28538562.84 0.0279 0.0055

Saturn 73424-01-27 19:12 G 28538651.16 28538651.30 28538651.45 0.0279 0.0084

Mars 73424-04-19 11:17 G 28538733.87 28538733.97 28538734.06 0.1793 0.1160

Saturn 73424-04-25 10:05 G 28538739.84 28538739.92 28538740.02 0.0279 0.0225

Jupiter 73424-09-16 07:12 G 28538883.65 28538883.80 28538883.95 0.0542 0.0066

Mars 73425-03-04 23:03 G 28539053.34 28539053.46 28539053.58 0.1716 0.1050

Venus 73428-10-20 22:19 G 28540379.36 28540379.43 28540379.50 0.3703 0.2982

Jupiter 73430-05-03 10:19 G 28540938.83 28540938.93 28540939.03 0.0487 0.0359

Jupiter 73430-07-31 22:05 G 28541028.30 28541028.42 28541028.54 0.0486 0.0290

Earth 73430-09-26 23:03 G 28541085.38 28541085.46 28541085.54 0.2701 0.2081

Moon 73430-09-26 23:17 G 28541085.39 28541085.47 28541085.54 0.2694 0.2106 *

Moon 73433-03-26 14:24 G 28541996.97 28541997.10 28541997.24 0.2626 0.0376

Earth 73433-03-26 15:07 G 28541997.00 28541997.13 28541997.26 0.2631 0.0425 *

Mars 73434-07-26 02:24 G 28542483.45 28542483.60 28542483.75 0.1722 0.0126

Mars 73435-08-16 12:15 G 28542869.93 28542870.01 28542870.09 0.1813 0.1414

Venus 73435-11-16 15:51 G 28542962.11 28542962.16 28542962.22 0.3666 0.3251

Jupiter 73436-07-05 08:10 G 28543193.71 28543193.84 28543193.97 0.0541 0.0282

Earth 73437-09-19 11:17 G 28543634.89 28543634.97 28543635.06 0.2703 0.1996

Moon 73437-09-19 12:00 G 28543634.92 28543635.00 28543635.08 0.2708 0.2012 *

Saturn 73437-12-13 03:07 G 28543719.52 28543719.63 28543719.76 0.0281 0.0181

Saturn 73438-03-11 20:10 G 28543808.18 28543808.34 28543808.49 0.0280 0.0030

Saturn 73438-06-08 12:29 G 28543896.87 28543897.02 28543897.16 0.0280 0.0117

Saturn 73438-09-05 04:05 G 28543985.62 28543985.67 28543985.73 0.0280 0.0260

Venus 73441-06-01 11:46 G 28544985.87 28544985.99 28544986.11 0.3668 0.0367

Jupiter 73442-05-20 00:00 G 28545338.36 28545338.50 28545338.65 0.0487 0.0120

Mars 73443-12-16 05:17 G 28545913.59 28545913.72 28545913.86 0.1728 0.0836

Mars 73445-01-05 19:41 G 28546300.20 28546300.32 28546300.43 0.1806 0.0555

Moon 73446-03-29 12:58 G 28546747.94 28546748.04 28546748.14 0.2629 0.1752

Earth 73446-03-29 13:55 G 28546747.99 28546748.08 28546748.17 0.2632 0.1920 *

Jupiter 73448-04-23 08:10 G 28547503.80 28547503.84 28547503.89 0.0540 0.0513

Jupiter 73448-07-22 04:48 G 28547593.60 28547593.70 28547593.80 0.0542 0.0394

Earth 73450-09-22 09:22 G 28548385.77 28548385.89 28548386.01 0.2702 0.0499

Moon 73450-09-22 10:19 G 28548385.81 28548385.93 28548386.06 0.2702 0.0312 *

Uranus 73452-08-24 03:22 G 28549087.62 28549087.64 28549087.70 0.0135 0.0130

Uranus 73452-11-20 08:24 G 28549175.76 28549175.85 28549175.94 0.0135 0.0108

Saturn 73452-12-20 16:34 G 28549206.11 28549206.19 28549206.28 0.0278 0.0221

Uranus 73453-02-16 12:58 G 28549263.93 28549264.04 28549264.16 0.0135 0.0087

Saturn 73453-03-19 06:58 G 28549294.64 28549294.79 28549294.93 0.0278 0.0087

Earth 73453-03-22 00:00 G 28549297.42 28549297.50 28549297.57 0.2630 0.2144

Moon 73453-03-22 00:43 G 28549297.44 28549297.53 28549297.61 0.2625 0.1990 *

Uranus 73453-05-15 17:46 G 28549352.10 28549352.24 28549352.37 0.0135 0.0066

Saturn 73453-06-15 21:22 G 28549383.24 28549383.39 28549383.54 0.0279 0.0050

Uranus 73453-08-11 22:19 G 28549440.28 28549440.43 28549440.58 0.0135 0.0044

Saturn 73453-09-12 12:15 G 28549471.90 28549472.01 28549472.12 0.0279 0.0191

Uranus 73453-11-08 02:53 G 28549528.46 28549528.62 28549528.77 0.0135 0.0023

Uranus 73454-02-04 07:12 G 28549616.65 28549616.80 28549616.96 0.0135 0.0005

Jupiter 73454-03-08 02:53 G 28549648.47 28549648.62 28549648.77 0.0487 0.0044

Uranus 73454-05-03 11:46 G 28549704.84 28549704.99 28549705.14 0.0135 0.0019

Mars 73454-05-29 03:22 G 28549730.51 28549730.64 28549730.76 0.1799 0.0281

Uranus 73454-07-30 16:05 G 28549793.03 28549793.17 28549793.32 0.0135 0.0040

Uranus 73454-10-26 20:24 G 28549881.22 28549881.35 28549881.50 0.0135 0.0061

Uranus 73455-01-23 00:58 G 28549969.42 28549969.54 28549969.67 0.0136 0.0081

Uranus 73455-04-21 05:17 G 28550057.62 28550057.72 28550057.83 0.0136 0.0101

Uranus 73455-07-18 09:22 G 28550145.84 28550145.89 28550145.97 0.0136 0.0122

Jupiter 73460-05-10 04:19 G 28551903.54 28551903.68 28551903.82 0.0542 0.0148

Earth 73463-09-25 06:58 G 28553136.68 28553136.79 28553136.91 0.2701 0.0951

Moon 73463-09-25 07:41 G 28553136.71 28553136.82 28553136.94 0.2697 0.0993 *

Mars 73463-10-19 11:03 G 28553160.87 28553160.96 28553161.06 0.1793 0.1072

Pluto 73463-10-26 04:34 G 28553167.63 28553167.69 28553167.76 0.0080 0.0073

Pluto 73464-01-22 06:15 G 28553255.65 28553255.76 28553255.89 0.0080 0.0052

Pluto 73464-04-19 08:10 G 28553343.69 28553343.84 28553343.99 0.0080 0.0030

Pluto 73464-07-16 09:51 G 28553431.75 28553431.91 28553432.07 0.0080 0.0009

Mars 73464-09-02 23:17 G 28553480.36 28553480.47 28553480.58 0.1716 0.1163

Pluto 73464-10-12 11:31 G 28553519.82 28553519.98 28553520.14 0.0080 0.0012

Pluto 73465-01-08 13:12 G 28553607.91 28553608.05 28553608.20 0.0080 0.0033

Pluto 73465-04-06 14:39 G 28553696.01 28553696.11 28553696.24 0.0080 0.0054

Pluto 73465-07-03 16:19 G 28553784.14 28553784.18 28553784.25 0.0079 0.0075

Jupiter 73465-12-25 05:46 G 28553958.61 28553958.74 28553958.88 0.0487 0.0198

Jupiter 73466-03-24 17:46 G 28554048.20 28554048.24 28554048.29 0.0486 0.0459

Moon 73466-03-24 22:19 G 28554048.30 28554048.43 28554048.56 0.2624 0.0757

Earth 73466-03-24 22:05 G 28554048.30 28554048.42 28554048.55 0.2630 0.0741 *

Saturn 73467-05-02 06:15 G 28554451.65 28554451.76 28554451.87 0.0281 0.0204

Saturn 73467-07-29 23:03 G 28554540.30 28554540.46 28554540.61 0.0281 0.0053

Saturn 73467-10-26 15:22 G 28554628.99 28554629.14 28554629.29 0.0280 0.0094

Saturn 73468-01-23 07:12 G 28554717.73 28554717.80 28554717.89 0.0280 0.0238

Jupiter 73472-02-27 04:48 G 28556213.55 28556213.70 28556213.85 0.0541 0.0077

Mars 73474-01-24 02:53 G 28556910.48 28556910.62 28556910.77 0.1722 0.0265

Venus 73474-04-28 03:36 G 28557004.62 28557004.65 28557004.68 0.3705 0.3560

Mars 73475-02-14 12:15 G 28557296.94 28557297.01 28557297.08 0.1812 0.1504

Earth 73476-09-27 04:19 G 28557887.62 28557887.68 28557887.74 0.2700 0.2348

Moon 73476-09-27 04:34 G 28557887.63 28557887.69 28557887.75 0.2693 0.2359 *

Jupiter 73477-10-13 08:39 G 28558268.76 28558268.86 28558268.96 0.0488 0.0355

Jupiter 73478-01-10 20:24 G 28558358.23 28558358.35 28558358.47 0.0486 0.0294

Moon 73479-03-27 19:55 G 28558799.20 28558799.33 28558799.46 0.2626 0.0646

Earth 73479-03-27 20:39 G 28558799.23 28558799.36 28558799.49 0.2631 0.0709 *

Venus 73479-11-12 00:29 G 28559028.40 28559028.52 28559028.64 0.3704 0.0508

Saturn 73482-05-09 18:00 G 28559938.20 28559938.25 28559938.30 0.0278 0.0259

Saturn 73482-08-06 07:55 G 28560026.71 28560026.83 28560026.97 0.0278 0.0128

Saturn 73482-11-02 22:34 G 28560115.29 28560115.44 28560115.59 0.0279 0.0010

Saturn 73483-01-30 13:12 G 28560203.92 28560204.05 28560204.18 0.0279 0.0148

Mars 73483-06-16 05:46 G 28560340.60 28560340.74 28560340.88 0.1728 0.0713

Earth 73483-09-20 16:48 G 28560437.10 28560437.20 28560437.30 0.2703 0.1708

Moon 73483-09-20 17:31 G 28560437.13 28560437.23 28560437.34 0.2707 0.1561 *

Jupiter 73483-12-16 05:31 G 28560523.60 28560523.73 28560523.86 0.0541 0.0296

Mars 73484-07-06 19:41 G 28560727.20 28560727.32 28560727.43 0.1806 0.0648

Jupiter 73489-10-29 23:03 G 28562668.31 28562668.46 28562668.60 0.0486 0.0132

Moon 73492-03-29 18:15 G 28563550.19 28563550.26 28563550.34 0.2631 0.2131

Earth 73492-03-29 19:27 G 28563550.24 28563550.31 28563550.38 0.2632 0.2206 *

Venus 73492-06-22 14:24 G 28563635.00 28563635.10 28563635.20 0.3667 0.1949

Mars 73492-11-05 08:24 G 28563770.83 28563770.85 28563770.87 0.1735 0.1712

Uranus 73493-09-05 09:36 G 28564074.88 28564074.90 28564074.95 0.0143 0.0140

Mars 73493-11-27 03:22 G 28564157.51 28564157.64 28564157.76 0.1799 0.0181

Uranus 73493-12-02 15:07 G 28564163.04 28564163.13 28564163.22 0.0143 0.0115

Uranus 73494-02-28 20:10 G 28564251.23 28564251.34 28564251.46 0.0143 0.0091

Uranus 73494-05-28 01:27 G 28564339.42 28564339.56 28564339.70 0.0143 0.0066

Uranus 73494-08-24 06:43 G 28564427.63 28564427.78 28564427.93 0.0143 0.0041

Uranus 73494-11-20 12:00 G 28564515.85 28564516.00 28564516.16 0.0143 0.0017

Uranus 73495-02-16 17:31 G 28564604.07 28564604.23 28564604.39 0.0143 0.0009

Uranus 73495-05-15 22:48 G 28564692.30 28564692.45 28564692.61 0.0143 0.0034

Uranus 73495-08-12 04:05 G 28564780.53 28564780.67 28564780.82 0.0143 0.0060

Jupiter 73495-10-04 06:15 G 28564833.72 28564833.76 28564833.81 0.0540 0.0513

Uranus 73495-11-08 09:36 G 28564868.78 28564868.90 28564869.03 0.0143 0.0085

Jupiter 73496-01-02 03:07 G 28564923.53 28564923.63 28564923.73 0.0542 0.0397

Uranus 73496-02-04 15:22 G 28564957.04 28564957.14 28564957.24 0.0143 0.0111

Uranus 73496-05-02 20:53 G 28565045.33 28565045.37 28565045.41 0.0143 0.0137

Saturn 73496-09-18 05:17 G 28565183.66 28565183.72 28565183.78 0.0281 0.0261

Earth 73496-09-22 14:39 G 28565187.99 28565188.11 28565188.24 0.2702 0.0231

Moon 73496-09-22 15:51 G 28565188.03 28565188.16 28565188.28 0.2702 0.0199 *

Saturn 73496-12-15 22:19 G 28565272.28 28565272.43 28565272.57 0.0280 0.0109

Saturn 73497-03-14 14:53 G 28565360.96 28565361.12 28565361.27 0.0280 0.0041

Saturn 73497-06-11 06:58 G 28565449.67 28565449.79 28565449.90 0.0280 0.0185

Venus 73498-01-06 10:05 G 28565658.81 28565658.92 28565659.03 0.3668 0.1671

Earth 73499-03-23 05:17 G 28566099.63 28566099.72 28566099.81 0.2630 0.1875

Moon 73499-03-23 06:00 G 28566099.66 28566099.75 28566099.84 0.2624 0.1881 *

Neptune 73499-09-13 23:03 G 28566274.45 28566274.46 28566274.48 0.0088 0.0087

Neptune 73499-12-11 00:58 G 28566362.48 28566362.54 28566362.61 0.0088 0.0079

Neptune 73500-03-09 03:07 G 28566450.54 28566450.63 28566450.73 0.0088 0.0071

Neptune 73500-06-05 05:03 G 28566538.61 28566538.71 28566538.83 0.0088 0.0063

Neptune 73500-09-01 07:12 G 28566626.69 28566626.80 28566626.93 0.0088 0.0055

Neptune 73500-11-28 09:22 G 28566714.76 28566714.89 28566715.03 0.0088 0.0046

Neptune 73501-02-24 11:31 G 28566802.84 28566802.98 28566803.13 0.0088 0.0038

Neptune 73501-05-23 13:27 G 28566890.92 28566891.06 28566891.22 0.0088 0.0030

Jupiter 73501-08-19 01:12 G 28566978.40 28566978.55 28566978.70 0.0487 0.0037

Neptune 73501-08-19 15:51 G 28566979.01 28566979.16 28566979.31 0.0088 0.0021

Neptune 73501-11-15 18:00 G 28567067.09 28567067.25 28567067.41 0.0088 0.0013

Neptune 73502-02-11 20:10 G 28567155.18 28567155.34 28567155.50 0.0088 0.0004

Neptune 73502-05-10 22:19 G 28567243.27 28567243.43 28567243.59 0.0088 0.0004

Neptune 73502-08-07 00:29 G 28567331.36 28567331.52 28567331.68 0.0088 0.0013

Neptune 73502-11-03 02:39 G 28567419.45 28567419.61 28567419.77 0.0088 0.0021

Neptune 73503-01-30 04:34 G 28567507.55 28567507.69 28567507.85 0.0088 0.0030

Mars 73503-04-20 11:17 G 28567587.86 28567587.97 28567588.07 0.1793 0.0973

Neptune 73503-04-28 06:43 G 28567595.65 28567595.78 28567595.94 0.0088 0.0039

Neptune 73503-07-25 09:07 G 28567683.75 28567683.88 28567684.02 0.0088 0.0047

Neptune 73503-10-21 11:17 G 28567771.85 28567771.97 28567772.10 0.0088 0.0056

Neptune 73504-01-17 13:12 G 28567859.96 28567860.05 28567860.18 0.0088 0.0065

Mars 73504-03-05 00:00 G 28567907.40 28567907.50 28567907.59 0.1716 0.1289

Neptune 73504-04-14 15:51 G 28567948.07 28567948.16 28567948.25 0.0088 0.0073

Neptune 73504-07-11 18:00 G 28568036.20 28568036.25 28568036.31 0.0088 0.0082

Jupiter 73507-10-22 03:36 G 28569233.51 28569233.65 28569233.80 0.0542 0.0175

Earth 73509-09-26 12:15 G 28569938.90 28569939.01 28569939.12 0.2701 0.1218

Moon 73509-09-26 12:58 G 28569938.93 28569939.04 28569939.14 0.2696 0.1342 *

Saturn 73511-12-25 09:36 G 28570758.79 28570758.90 28570759.03 0.0278 0.0165

Saturn 73512-03-23 00:00 G 28570847.35 28570847.50 28570847.65 0.0279 0.0030

Moon 73512-03-26 03:22 G 28570850.51 28570850.64 28570850.78 0.2624 0.0426

Earth 73512-03-26 03:36 G 28570850.52 28570850.65 28570850.78 0.2630 0.0472 *

Saturn 73512-06-19 14:39 G 28570935.98 28570936.11 28570936.25 0.0279 0.0110

Mars 73512-09-09 19:27 G 28571018.28 28571018.31 28571018.33 0.1786 0.1736

Saturn 73512-09-16 05:46 G 28571024.68 28571024.74 28571024.80 0.0279 0.0251

Jupiter 73513-06-07 04:05 G 28571288.53 28571288.67 28571288.80 0.0487 0.0196

Mars 73513-07-26 03:22 G 28571337.49 28571337.64 28571337.78 0.1722 0.0372

Jupiter 73513-09-04 16:05 G 28571378.12 28571378.17 28571378.22 0.0486 0.0460

Mars 73514-08-16 12:15 G 28571723.96 28571724.01 28571724.07 0.1812 0.1604

Jupiter 73519-08-10 02:53 G 28573543.47 28573543.62 28573543.77 0.0541 0.0075

Moon 73522-09-29 09:36 G 28574689.87 28574689.90 28574689.94 0.2693 0.2584

Earth 73522-09-29 09:36 G 28574689.87 28574689.90 28574689.93 0.2700 0.2608 *

Mars 73522-12-16 06:15 G 28574767.62 28574767.76 28574767.91 0.1728 0.0584

Mars 73524-01-06 19:41 G 28575154.21 28575154.32 28575154.43 0.1806 0.0743

Jupiter 73525-03-26 06:58 G 28575598.69 28575598.79 28575598.90 0.0488 0.0350

Moon 73525-03-29 01:27 G 28575601.43 28575601.56 28575601.68 0.2626 0.0888

Earth 73525-03-29 02:10 G 28575601.47 28575601.59 28575601.71 0.2631 0.0991 *

Jupiter 73525-06-23 18:43 G 28575688.16 28575688.28 28575688.40 0.0486 0.0301

Saturn 73526-05-06 00:58 G 28576004.40 28576004.54 28576004.68 0.0281 0.0133

Saturn 73526-08-02 17:31 G 28576093.08 28576093.23 28576093.39 0.0280 0.0018

Saturn 73526-10-30 09:51 G 28576181.78 28576181.91 28576182.04 0.0280 0.0162

Earth 73529-09-21 22:19 G 28577239.32 28577239.43 28577239.53 0.2702 0.1427

Moon 73529-09-21 23:03 G 28577239.36 28577239.46 28577239.57 0.2705 0.1380 *

Venus 73530-12-04 02:24 G 28577677.50 28577677.60 28577677.70 0.3705 0.2058

Jupiter 73531-05-29 03:07 G 28577853.51 28577853.63 28577853.76 0.0541 0.0304

Mars 73532-05-07 08:53 G 28578197.81 28578197.87 28578197.93 0.1734 0.1579

Mars 73533-05-29 03:07 G 28578584.51 28578584.63 28578584.76 0.1799 0.0098

Venus 73536-06-18 23:03 G 28579701.36 28579701.46 28579701.57 0.3704 0.1939

Uranus 73536-09-14 10:05 G 28579788.88 28579788.92 28579788.99 0.0135 0.0125

Uranus 73536-12-11 15:07 G 28579877.03 28579877.13 28579877.23 0.0135 0.0103

Uranus 73537-03-09 19:27 G 28579965.20 28579965.31 28579965.45 0.0135 0.0083

Jupiter 73537-04-11 21:22 G 28579998.25 28579998.39 28579998.54 0.0486 0.0139

Uranus 73537-06-06 00:15 G 28580053.37 28580053.51 28580053.65 0.0135 0.0061

Uranus 73537-09-02 04:48 G 28580141.55 28580141.70 28580141.85 0.0135 0.0040

Uranus 73537-11-29 09:22 G 28580229.74 28580229.89 28580230.05 0.0135 0.0019

Uranus 73538-02-25 13:55 G 28580317.93 28580318.08 28580318.24 0.0135 0.0003

Moon 73538-03-31 23:46 G 28580352.44 28580352.49 28580352.55 0.2633 0.2383

Earth 73538-04-01 00:58 G 28580352.50 28580352.54 28580352.58 0.2632 0.2500 *

Uranus 73538-05-24 18:29 G 28580406.12 28580406.27 28580406.42 0.0135 0.0023

Uranus 73538-08-20 22:48 G 28580494.31 28580494.45 28580494.60 0.0135 0.0044

Uranus 73538-11-17 03:22 G 28580582.50 28580582.64 28580582.77 0.0135 0.0065

Uranus 73539-02-13 07:27 G 28580670.70 28580670.81 28580670.94 0.0135 0.0086

Uranus 73539-05-12 12:00 G 28580758.91 28580759.00 28580759.10 0.0136 0.0106

Uranus 73539-08-08 16:19 G 28580847.13 28580847.18 28580847.24 0.0136 0.0126

Saturn 73541-05-13 11:03 G 28581490.86 28581490.96 28581491.06 0.0278 0.0203

Saturn 73541-08-10 01:12 G 28581579.41 28581579.55 28581579.70 0.0278 0.0070

Saturn 73541-11-06 15:51 G 28581668.01 28581668.16 28581668.30 0.0279 0.0068

Saturn 73542-02-03 06:43 G 28581756.68 28581756.78 28581756.88 0.0279 0.0209

Earth 73542-09-24 20:10 G 28581990.21 28581990.34 28581990.46 0.2702 0.0088

Moon 73542-09-24 21:07 G 28581990.25 28581990.38 28581990.50 0.2701 0.0250 *

Mars 73542-10-19 11:17 G 28582014.86 28582014.97 28582015.08 0.1793 0.0878

Jupiter 73543-03-17 03:36 G 28582163.62 28582163.65 28582163.69 0.0541 0.0526

Jupiter 73543-06-15 00:29 G 28582253.42 28582253.52 28582253.63 0.0542 0.0386

Mars 73543-09-04 00:15 G 28582334.43 28582334.51 28582334.60 0.1716 0.1403

Earth 73545-03-24 10:48 G 28582901.84 28582901.95 28582902.05 0.2630 0.1614

Moon 73545-03-24 11:17 G 28582901.86 28582901.97 28582902.08 0.2625 0.1467 *

Venus 73549-01-28 12:43 G 28584307.92 28584308.03 28584308.15 0.3667 0.0649

Jupiter 73549-01-29 00:15 G 28584308.36 28584308.51 28584308.66 0.0487 0.0025

Mars 73552-03-10 19:27 G 28585445.27 28585445.31 28585445.36 0.1786 0.1638

Mars 73553-01-24 03:51 G 28585764.51 28585764.66 28585764.80 0.1722 0.0495

Mars 73554-02-14 12:29 G 28586150.98 28586151.02 28586151.06 0.1813 0.1708

Venus 73554-08-14 08:39 G 28586331.80 28586331.86 28586331.93 0.3668 0.3047

Jupiter 73555-04-03 01:55 G 28586563.44 28586563.58 28586563.72 0.0542 0.0178

Saturn 73555-09-23 00:00 G 28586736.38 28586736.50 28586736.62 0.0280 0.0190

Earth 73555-09-27 17:31 G 28586741.13 28586741.23 28586741.34 0.2701 0.1493

Moon 73555-09-27 18:15 G 28586741.15 28586741.26 28586741.36 0.2695 0.1463 *

Saturn 73555-12-20 16:48 G 28586825.04 28586825.20 28586825.36 0.0280 0.0040

Saturn 73556-03-18 09:07 G 28586913.74 28586913.88 28586914.03 0.0280 0.0107

Saturn 73556-06-15 00:58 G 28587002.48 28587002.54 28587002.62 0.0280 0.0250

Moon 73558-03-27 08:39 G 28587652.73 28587652.86 28587653.00 0.2624 0.0311

Earth 73558-03-27 09:07 G 28587652.75 28587652.88 28587653.01 0.2631 0.0204 *

Jupiter 73560-11-17 02:24 G 28588618.47 28588618.60 28588618.74 0.0487 0.0188

Jupiter 73561-02-14 14:24 G 28588708.07 28588708.10 28588708.14 0.0486 0.0468

Mars 73562-06-16 06:43 G 28589194.63 28589194.78 28589194.93 0.1728 0.0459

Earth 73562-09-20 05:31 G 28589290.71 28589290.73 28589290.74 0.2703 0.2670

Moon 73562-09-20 05:46 G 28589290.72 28589290.74 28589290.77 0.2709 0.2636 *

Mars 73563-07-07 19:41 G 28589581.21 28589581.32 28589581.43 0.1806 0.0843

Jupiter 73567-01-20 02:24 G 28590873.45 28590873.60 28590873.75 0.0541 0.0046

Saturn 73570-09-30 12:15 G 28592222.94 28592223.01 28592223.08 0.0278 0.0244

Saturn 73570-12-28 02:24 G 28592311.46 28592311.60 28592311.73 0.0278 0.0111

Saturn 73571-03-26 16:48 G 28592400.05 28592400.20 28592400.35 0.0279 0.0025

Moon 73571-03-30 06:43 G 28592403.66 28592403.78 28592403.90 0.2627 0.1235

Earth 73571-03-30 07:41 G 28592403.70 28592403.82 28592403.93 0.2631 0.1273 *

Saturn 73571-06-23 07:27 G 28592488.69 28592488.81 28592488.94 0.0279 0.0165

Mars 73571-11-06 09:07 G 28592624.80 28592624.88 28592624.96 0.1735 0.1459

Jupiter 73572-09-05 05:17 G 28592928.62 28592928.72 28592928.83 0.0488 0.0345

Mars 73572-11-27 03:22 G 28593011.51 28593011.64 28593011.76 0.1799 0.0056

Jupiter 73572-12-03 17:03 G 28593018.09 28593018.21 28593018.33 0.0486 0.0306

Earth 73575-09-23 03:36 G 28594041.54 28594041.65 28594041.76 0.2702 0.1144

Moon 73575-09-23 04:34 G 28594041.58 28594041.69 28594041.81 0.2705 0.1001 *

Uranus 73577-09-26 16:34 G 28594776.15 28594776.19 28594776.25 0.0143 0.0134

Uranus 73577-12-23 21:51 G 28594864.32 28594864.41 28594864.51 0.0143 0.0109

Uranus 73578-03-22 02:53 G 28594952.51 28594952.62 28594952.75 0.0143 0.0085

Moon 73578-03-22 19:12 G 28594953.28 28594953.30 28594953.32 0.2626 0.2577

Uranus 73578-06-18 08:24 G 28595040.71 28595040.85 28595040.99 0.0143 0.0060

Uranus 73578-09-14 13:27 G 28595128.91 28595129.06 28595129.22 0.0143 0.0036

Jupiter 73578-11-08 01:41 G 28595183.44 28595183.57 28595183.69 0.0541 0.0296

Uranus 73578-12-11 18:58 G 28595217.13 28595217.29 28595217.45 0.0143 0.0011

Uranus 73579-03-10 00:15 G 28595305.35 28595305.51 28595305.67 0.0143 0.0015

Uranus 73579-06-06 05:31 G 28595393.58 28595393.73 28595393.89 0.0143 0.0040

Uranus 73579-09-02 11:03 G 28595481.82 28595481.96 28595482.10 0.0143 0.0066

Uranus 73579-11-29 16:19 G 28595570.07 28595570.18 28595570.31 0.0143 0.0092

Uranus 73580-02-25 22:05 G 28595658.33 28595658.42 28595658.51 0.0143 0.0117

Neptune 73581-09-29 00:00 G 28596239.45 28596239.50 28596239.57 0.0090 0.0082

Neptune 73581-12-26 02:10 G 28596327.51 28596327.59 28596327.69 0.0090 0.0073

Neptune 73582-03-24 04:19 G 28596415.58 28596415.68 28596415.80 0.0090 0.0064

Mars 73582-04-19 11:17 G 28596441.86 28596441.97 28596442.08 0.1793 0.0783

Neptune 73582-06-20 06:43 G 28596503.66 28596503.78 28596503.91 0.0090 0.0055

Neptune 73582-09-16 08:53 G 28596591.74 28596591.87 28596592.01 0.0090 0.0046

Neptune 73582-12-13 11:03 G 28596679.82 28596679.96 28596680.11 0.0090 0.0037

Mars 73583-03-05 00:43 G 28596761.46 28596761.53 28596761.60 0.1716 0.1520

Neptune 73583-03-11 13:27 G 28596767.91 28596768.06 28596768.20 0.0090 0.0028

Neptune 73583-06-07 15:22 G 28596855.99 28596856.14 28596856.30 0.0090 0.0019

Neptune 73583-09-03 17:31 G 28596944.08 28596944.23 28596944.39 0.0090 0.0011

Neptune 73583-11-30 19:41 G 28597032.17 28597032.32 28597032.48 0.0090 0.0002

Neptune 73584-02-26 21:51 G 28597120.26 28597120.41 28597120.57 0.0090 0.0007

Neptune 73584-05-25 00:00 G 28597208.35 28597208.50 28597208.65 0.0090 0.0016

Neptune 73584-08-21 01:55 G 28597296.44 28597296.58 28597296.74 0.0090 0.0025

Jupiter 73584-09-21 19:55 G 28597328.19 28597328.33 28597328.48 0.0487 0.0148

Neptune 73584-11-17 03:51 G 28597384.53 28597384.66 28597384.82 0.0090 0.0034

Saturn 73585-02-09 02:24 G 28597468.50 28597468.60 28597468.70 0.0281 0.0219

Neptune 73585-02-13 06:00 G 28597472.62 28597472.75 28597472.90 0.0090 0.0042

Saturn 73585-05-08 19:12 G 28597557.15 28597557.30 28597557.46 0.0281 0.0067

Neptune 73585-05-12 07:55 G 28597560.72 28597560.83 28597560.97 0.0090 0.0051

Saturn 73585-08-05 11:46 G 28597645.84 28597645.99 28597646.14 0.0280 0.0081

Neptune 73585-08-08 10:19 G 28597648.82 28597648.93 28597649.05 0.0090 0.0059

Saturn 73585-11-02 03:36 G 28597734.57 28597734.65 28597734.75 0.0280 0.0225

Neptune 73585-11-04 12:00 G 28597736.92 28597737.00 28597737.12 0.0090 0.0068

Neptune 73586-01-31 14:10 G 28597825.02 28597825.09 28597825.18 0.0090 0.0076

Neptune 73586-04-29 16:05 G 28597913.14 28597913.17 28597913.23 0.0090 0.0084

Venus 73587-07-11 01:12 G 28598350.43 28598350.55 28598350.67 0.3704 0.0593

Earth 73588-09-25 01:27 G 28598792.43 28598792.56 28598792.68 0.2702 0.0333

Moon 73588-09-25 02:24 G 28598792.47 28598792.60 28598792.72 0.2699 0.0368 *

Jupiter 73590-08-27 01:41 G 28599493.54 28599493.57 28599493.60 0.0540 0.0528

Jupiter 73590-11-24 22:34 G 28599583.33 28599583.44 28599583.54 0.0542 0.0382

Earth 73591-03-25 16:19 G 28599704.06 28599704.18 28599704.29 0.2630 0.1340

Moon 73591-03-25 16:34 G 28599704.08 28599704.19 28599704.31 0.2624 0.1358 *

Mars 73591-09-09 19:12 G 28599872.25 28599872.30 28599872.36 0.1786 0.1557

Mars 73592-07-25 04:19 G 28600191.54 28600191.68 28600191.82 0.1722 0.0624

Venus 73593-01-23 21:51 G 28600374.36 28600374.41 28600374.46 0.3703 0.3359

Mars 73593-08-15 12:15 G 28600578.00 28600578.01 28600578.03 0.1812 0.1795

Jupiter 73596-07-10 22:48 G 28601638.30 28601638.45 28601638.60 0.0487 0.0017

Venus 73600-02-19 15:36 G 28602957.08 28602957.15 28602957.22 0.3666 0.2879

Saturn 73600-05-16 03:36 G 28603043.53 28603043.65 28603043.78 0.0278 0.0150

Saturn 73600-08-12 18:00 G 28603132.10 28603132.25 28603132.40 0.0279 0.0015

Saturn 73600-11-09 08:39 G 28603220.73 28603220.86 28603221.00 0.0279 0.0123

Saturn 73601-02-05 23:31 G 28603309.44 28603309.48 28603309.53 0.0279 0.0265

Earth 73601-09-27 23:03 G 28603543.36 28603543.46 28603543.55 0.2701 0.1756

Moon 73601-09-27 23:17 G 28603543.39 28603543.47 28603543.56 0.2695 0.1881 *

Mars 73601-12-15 07:12 G 28603621.65 28603621.80 28603621.95 0.1728 0.0335

Jupiter 73602-09-12 23:31 G 28603893.34 28603893.48 28603893.62 0.0542 0.0169

Mars 73603-01-05 19:41 G 28604008.21 28604008.32 28604008.43 0.1806 0.0933

Moon 73604-03-27 14:10 G 28604454.95 28604455.09 28604455.22 0.2624 0.0135

Earth 73604-03-27 14:24 G 28604454.97 28604455.10 28604455.23 0.2631 0.0096 *

Venus 73605-09-04 11:17 G 28604980.85 28604980.97 28604981.09 0.3667 0.0685

Jupiter 73608-04-29 01:41 G 28605948.43 28605948.57 28605948.71 0.0487 0.0170

Jupiter 73608-07-27 13:41 G 28606038.07 28606038.07 28606038.07 0.0486 0.0486

Earth 73608-09-20 10:48 G 28606092.90 28606092.95 28606093.01 0.2703 0.2378

Moon 73608-09-20 11:31 G 28606092.92 28606092.98 28606093.04 0.2708 0.2355 *

Mars 73611-05-07 09:51 G 28607051.81 28607051.91 28607052.01 0.1735 0.1323

Mars 73612-05-28 03:22 G 28607438.52 28607438.64 28607438.77 0.1799 0.0119

Saturn 73614-06-29 01:12 G 28608200.53 28608200.55 28608200.57 0.0281 0.0278

Jupiter 73614-07-02 00:43 G 28608203.38 28608203.53 28608203.68 0.0542 0.0041

Saturn 73614-09-25 18:15 G 28608289.12 28608289.26 28608289.40 0.0280 0.0125

Saturn 73614-12-23 10:48 G 28608377.80 28608377.95 28608378.11 0.0280 0.0025

Saturn 73615-03-22 02:53 G 28608466.50 28608466.62 28608466.75 0.0280 0.0170

Moon 73617-03-30 12:00 G 28609205.89 28609206.00 28609206.12 0.2629 0.1383

Earth 73617-03-30 12:58 G 28609205.94 28609206.04 28609206.15 0.2631 0.1556 *

Jupiter 73620-02-16 04:05 G 28610258.57 28610258.67 28610258.78 0.0488 0.0334

Jupiter 73620-05-15 15:51 G 28610348.04 28610348.16 28610348.27 0.0486 0.0316

Pluto 73620-07-09 14:39 G 28610403.05 28610403.11 28610403.20 0.0064 0.0056

Uranus 73620-10-04 17:03 G 28610490.15 28610490.21 28610490.29 0.0135 0.0119

Pluto 73620-10-05 15:36 G 28610491.05 28610491.15 28610491.27 0.0064 0.0046

Uranus 73620-12-31 21:36 G 28610578.31 28610578.40 28610578.52 0.0135 0.0098

Pluto 73621-01-01 16:05 G 28610579.06 28610579.17 28610579.32 0.0064 0.0036

Uranus 73621-03-30 02:24 G 28610666.48 28610666.60 28610666.74 0.0135 0.0077

Pluto 73621-03-30 17:03 G 28610667.08 28610667.21 28610667.37 0.0064 0.0025

Uranus 73621-06-26 06:58 G 28610754.66 28610754.79 28610754.94 0.0135 0.0056

Pluto 73621-06-26 18:00 G 28610755.10 28610755.25 28610755.41 0.0064 0.0013

Uranus 73621-09-22 11:46 G 28610842.84 28610842.99 28610843.14 0.0135 0.0034

Pluto 73621-09-22 18:58 G 28610843.13 28610843.29 28610843.45 0.0064 0.0003 *

Earth 73621-09-23 08:53 G 28610843.75 28610843.87 28610843.99 0.2702 0.0866

Moon 73621-09-23 09:51 G 28610843.79 28610843.91 28610844.03 0.2705 0.0787 *

Mars 73621-10-18 11:17 G 28610868.85 28610868.97 28610869.08 0.1793 0.0693

Uranus 73621-12-19 16:19 G 28610931.02 28610931.18 28610931.34 0.0135 0.0013

Pluto 73621-12-19 19:41 G 28610931.17 28610931.32 28610931.48 0.0065 0.0008 *

Pluto 73622-03-17 20:10 G 28611019.21 28611019.34 28611019.50 0.0065 0.0020

Uranus 73622-03-17 20:53 G 28611019.21 28611019.37 28611019.52 0.0135 0.0008 *

Pluto 73622-06-13 21:22 G 28611107.25 28611107.39 28611107.53 0.0065 0.0030

Uranus 73622-06-14 01:12 G 28611107.40 28611107.55 28611107.71 0.0135 0.0029 *

Mars 73622-09-03 01:12 G 28611188.51 28611188.55 28611188.59 0.1716 0.1638

Pluto 73622-09-09 22:05 G 28611195.30 28611195.42 28611195.54 0.0065 0.0041

Uranus 73622-09-10 05:46 G 28611195.60 28611195.74 28611195.88 0.0135 0.0050

Pluto 73622-12-06 22:48 G 28611283.36 28611283.45 28611283.55 0.0065 0.0052

Uranus 73622-12-07 10:05 G 28611283.79 28611283.92 28611284.06 0.0135 0.0071

Pluto 73623-03-04 23:31 G 28611371.45 28611371.48 28611371.52 0.0065 0.0063

Uranus 73623-03-05 14:39 G 28611372.00 28611372.11 28611372.22 0.0135 0.0091

Uranus 73623-06-01 18:43 G 28611460.21 28611460.28 28611460.38 0.0136 0.0112

Uranus 73623-08-28 23:03 G 28611548.44 28611548.46 28611548.50 0.0136 0.0132

Earth 73624-03-22 23:31 G 28611755.44 28611755.48 28611755.53 0.2629 0.2452

Moon 73624-03-23 00:29 G 28611755.47 28611755.52 28611755.58 0.2626 0.2375 *

Jupiter 73626-04-20 01:12 G 28612513.42 28612513.55 28612513.69 0.0541 0.0264

Saturn 73629-10-03 04:19 G 28613775.58 28613775.68 28613775.78 0.0278 0.0196

Saturn 73629-12-30 18:29 G 28613864.13 28613864.27 28613864.42 0.0278 0.0063

Saturn 73630-03-29 09:07 G 28613952.73 28613952.88 28613953.02 0.0279 0.0075

Saturn 73630-06-25 23:46 G 28614041.40 28614041.49 28614041.59 0.0279 0.0216

Mars 73631-03-10 19:27 G 28614299.24 28614299.31 28614299.38 0.1786 0.1455

Mars 73632-01-24 04:34 G 28614618.56 28614618.69 28614618.83 0.1722 0.0733

Jupiter 73632-03-03 18:29 G 28614658.13 28614658.27 28614658.41 0.0487 0.0155

Earth 73634-09-26 06:43 G 28615594.66 28615594.78 28615594.90 0.2702 0.0602

Moon 73634-09-26 07:27 G 28615594.69 28615594.81 28615594.93 0.2698 0.0740 *

Earth 73637-03-25 21:36 G 28616506.28 28616506.40 28616506.52 0.2630 0.1068

Moon 73637-03-25 21:51 G 28616506.29 28616506.41 28616506.53 0.2624 0.0996 *

Jupiter 73638-02-06 00:15 G 28616823.47 28616823.51 28616823.56 0.0540 0.0516

Jupiter 73638-05-06 21:07 G 28616913.28 28616913.38 28616913.48 0.0542 0.0393

Venus 73638-08-01 03:07 G 28616999.57 28616999.63 28616999.69 0.3706 0.3211

Mars 73641-06-15 07:41 G 28618048.67 28618048.82 28618048.97 0.1728 0.0209

Mars 73642-07-06 19:41 G 28618435.22 28618435.32 28618435.43 0.1806 0.1037

Jupiter 73643-12-21 21:22 G 28618968.24 28618968.39 28618968.54 0.0487 0.0005

Saturn 73644-02-12 20:10 G 28619021.21 28619021.34 28619021.48 0.0281 0.0155

Venus 73644-02-15 00:00 G 28619023.38 28619023.50 28619023.62 0.3704 0.0872

Saturn 73644-05-11 13:12 G 28619109.89 28619110.05 28619110.20 0.0281 0.0008

Saturn 73644-08-08 05:17 G 28619198.59 28619198.72 28619198.86 0.0280 0.0143

Earth 73647-09-29 04:19 G 28620345.60 28620345.68 28620345.76 0.2701 0.2024

Moon 73647-09-29 04:34 G 28620345.61 28620345.69 28620345.78 0.2695 0.1982 *

Jupiter 73650-02-22 21:36 G 28621223.26 28621223.40 28621223.55 0.0542 0.0171

Moon 73650-03-28 19:41 G 28621257.18 28621257.32 28621257.45 0.2625 0.0254

Earth 73650-03-28 19:55 G 28621257.20 28621257.33 28621257.46 0.2631 0.0369 *

Mars 73650-11-05 10:19 G 28621478.82 28621478.93 28621479.04 0.1734 0.1189

Mars 73651-11-27 03:07 G 28621865.51 28621865.63 28621865.76 0.1799 0.0200

Earth 73654-09-21 16:19 G 28622895.10 28622895.18 28622895.26 0.2703 0.2088

Moon 73654-09-21 17:03 G 28622895.13 28622895.21 28622895.30 0.2708 0.1951 *

Jupiter 73655-10-10 00:15 G 28623278.37 28623278.51 28623278.65 0.0487 0.0159

Venus 73656-09-25 14:10 G 28623629.98 28623630.09 28623630.19 0.3666 0.1583

Saturn 73659-02-20 06:00 G 28624507.67 28624507.75 28624507.83 0.0278 0.0232

Saturn 73659-05-19 19:55 G 28624596.20 28624596.33 28624596.48 0.0278 0.0100

Saturn 73659-08-16 10:34 G 28624684.79 28624684.94 28624685.09 0.0279 0.0037

Saturn 73659-11-13 01:12 G 28624773.43 28624773.55 28624773.67 0.0279 0.0175

Mars 73661-04-18 11:17 G 28625295.86 28625295.97 28625296.09 0.1793 0.0593

Uranus 73661-10-16 23:17 G 28625477.42 28625477.47 28625477.55 0.0143 0.0129

Jupiter 73661-12-11 22:34 G 28625533.28 28625533.44 28625533.59 0.0541 0.0051

Uranus 73662-01-13 04:48 G 28625565.59 28625565.70 28625565.81 0.0143 0.0104

Uranus 73662-04-11 09:51 G 28625653.79 28625653.91 28625654.04 0.0143 0.0079

Venus 73662-04-11 09:51 G 28625653.81 28625653.91 28625654.01 0.3667 0.2041 *

Uranus 73662-07-08 15:07 G 28625741.99 28625742.13 28625742.28 0.0143 0.0054

Uranus 73662-10-04 20:24 G 28625830.20 28625830.35 28625830.50 0.0143 0.0030

Uranus 73663-01-01 01:41 G 28625918.41 28625918.57 28625918.73 0.0143 0.0005

Uranus 73663-03-30 06:58 G 28626006.64 28626006.79 28626006.95 0.0143 0.0021

Moon 73663-03-31 17:31 G 28626008.13 28626008.23 28626008.32 0.2630 0.1814

Earth 73663-03-31 18:29 G 28626008.18 28626008.27 28626008.37 0.2632 0.1844 *

Uranus 73663-06-26 12:29 G 28626094.87 28626095.02 28626095.17 0.0143 0.0046

Uranus 73663-09-22 17:46 G 28626183.11 28626183.24 28626183.38 0.0143 0.0072

Uranus 73663-12-19 23:03 G 28626271.36 28626271.46 28626271.59 0.0143 0.0098

Uranus 73664-03-17 04:34 G 28626359.62 28626359.69 28626359.78 0.0143 0.0124

Neptune 73664-06-10 22:34 G 28626445.39 28626445.44 28626445.50 0.0088 0.0081

Neptune 73664-09-07 00:29 G 28626533.44 28626533.52 28626533.62 0.0088 0.0073

Neptune 73664-12-04 02:24 G 28626621.51 28626621.60 28626621.72 0.0088 0.0065

Neptune 73665-03-02 04:34 G 28626709.58 28626709.69 28626709.82 0.0088 0.0057

Neptune 73665-05-29 06:58 G 28626797.66 28626797.79 28626797.92 0.0088 0.0048

Neptune 73665-08-25 08:53 G 28626885.74 28626885.87 28626886.02 0.0088 0.0040

Neptune 73665-11-21 11:03 G 28626973.82 28626973.96 28626974.11 0.0088 0.0032

Neptune 73666-02-17 12:58 G 28627061.90 28627062.04 28627062.20 0.0088 0.0024

Neptune 73666-05-16 15:22 G 28627149.98 28627150.14 28627150.30 0.0088 0.0015

Neptune 73666-08-12 17:31 G 28627238.07 28627238.23 28627238.39 0.0088 0.0007

Neptune 73666-11-08 19:41 G 28627326.16 28627326.32 28627326.48 0.0088 0.0002

Neptune 73667-02-04 21:36 G 28627414.25 28627414.40 28627414.57 0.0088 0.0011

Neptune 73667-05-03 23:46 G 28627502.34 28627502.49 28627502.65 0.0088 0.0019

Jupiter 73667-07-29 03:22 G 28627588.52 28627588.64 28627588.75 0.0488 0.0315

Neptune 73667-07-31 01:55 G 28627590.44 28627590.58 28627590.74 0.0088 0.0028

Earth 73667-09-24 14:24 G 28627645.98 28627646.10 28627646.22 0.2702 0.0581

Moon 73667-09-24 15:22 G 28627646.02 28627646.14 28627646.26 0.2704 0.0481 *

Jupiter 73667-10-26 14:53 G 28627678.01 28627678.12 28627678.23 0.0486 0.0335

Neptune 73667-10-27 04:05 G 28627678.53 28627678.67 28627678.83 0.0088 0.0036

Neptune 73668-01-23 06:15 G 28627766.63 28627766.76 28627766.91 0.0088 0.0045

Neptune 73668-04-20 08:39 G 28627854.73 28627854.86 28627854.99 0.0088 0.0053

Neptune 73668-07-17 10:48 G 28627942.84 28627942.95 28627943.07 0.0088 0.0062

Neptune 73668-10-13 12:43 G 28628030.95 28628031.03 28628031.14 0.0088 0.0071

Neptune 73669-01-09 15:22 G 28628119.07 28628119.14 28628119.21 0.0088 0.0079

Earth 73670-03-24 05:03 G 28628557.64 28628557.71 28628557.78 0.2629 0.2186

Moon 73670-03-24 05:46 G 28628557.67 28628557.74 28628557.82 0.2626 0.2097 *

Mars 73670-09-08 19:27 G 28628726.23 28628726.31 28628726.39 0.1786 0.1361

Mars 73671-07-25 05:03 G 28629045.58 28629045.71 28629045.84 0.1722 0.0858

Saturn 73673-07-01 18:58 G 28629753.19 28629753.29 28629753.40 0.0281 0.0215

Saturn 73673-09-28 12:00 G 28629841.84 28629842.00 28629842.15 0.0280 0.0064

Jupiter 73673-09-29 23:31 G 28629843.35 28629843.48 28629843.61 0.0541 0.0260

Saturn 73673-12-26 04:19 G 28629930.53 28629930.68 28629930.84 0.0280 0.0085

Saturn 73674-03-24 20:24 G 28630019.27 28630019.35 28630019.44 0.0280 0.0228

Jupiter 73679-05-17 06:00 G 28631898.72 28631898.75 28631898.78 0.0488 0.0475

Jupiter 73679-08-14 17:17 G 28631988.08 28631988.22 28631988.36 0.0486 0.0168

Earth 73680-09-26 12:00 G 28632396.88 28632397.00 28632397.12 0.2702 0.0878

Moon 73680-09-26 12:58 G 28632396.92 28632397.04 28632397.15 0.2697 0.0929 *

Mars 73680-12-14 08:10 G 28632475.69 28632475.84 28632475.99 0.1728 0.0087

Mars 73682-01-04 19:41 G 28632862.23 28632862.32 28632862.42 0.1806 0.1130

Earth 73683-03-27 03:07 G 28633308.50 28633308.63 28633308.75 0.2630 0.0799

Moon 73683-03-27 03:07 G 28633308.51 28633308.63 28633308.76 0.2623 0.0816 *

Jupiter 73685-07-19 00:00 G 28634153.44 28634153.50 28634153.57 0.0540 0.0483

Jupiter 73685-10-16 20:53 G 28634243.28 28634243.37 28634243.46 0.0542 0.0426

Saturn 73688-10-05 20:10 G 28635328.22 28635328.34 28635328.47 0.0278 0.0150

Saturn 73689-01-02 10:34 G 28635416.79 28635416.94 28635417.09 0.0278 0.0017

Saturn 73689-04-01 00:58 G 28635505.41 28635505.54 28635505.68 0.0279 0.0123

Saturn 73689-06-28 16:05 G 28635594.12 28635594.17 28635594.21 0.0279 0.0264

Mars 73690-05-06 10:48 G 28635905.83 28635905.95 28635906.07 0.1735 0.1073

Mars 73691-05-28 03:22 G 28636292.52 28636292.64 28636292.76 0.1799 0.0299

Jupiter 73691-06-02 20:10 G 28636298.19 28636298.34 28636298.49 0.0487 0.0014

Earth 73693-09-29 09:36 G 28637147.83 28637147.90 28637147.96 0.2701 0.2285

Moon 73693-09-29 09:36 G 28637147.84 28637147.90 28637147.96 0.2694 0.2348 *

Venus 73695-03-08 01:55 G 28637672.47 28637672.58 28637672.69 0.3705 0.1694

Moon 73696-03-29 00:43 G 28638059.41 28638059.53 28638059.66 0.2626 0.0646

Earth 73696-03-29 01:27 G 28638059.43 28638059.56 28638059.69 0.2631 0.0641 *

Jupiter 73697-08-04 20:24 G 28638553.21 28638553.35 28638553.49 0.0541 0.0185

Venus 73700-09-21 22:48 G 28639696.36 28639696.45 28639696.54 0.3704 0.2334

Earth 73700-09-22 21:51 G 28639697.31 28639697.41 28639697.50 0.2703 0.1802

Moon 73700-09-22 22:34 G 28639697.35 28639697.44 28639697.53 0.2708 0.1790 *

Mars 73700-10-18 11:17 G 28639722.85 28639722.97 28639723.09 0.1792 0.0504

Saturn 73702-11-19 20:39 G 28640485.29 28640485.36 28640485.43 0.0282 0.0250

Saturn 73703-02-16 13:41 G 28640573.92 28640574.07 28640574.22 0.0281 0.0096

Jupiter 73703-03-22 23:03 G 28640608.32 28640608.46 28640608.60 0.0488 0.0147

Saturn 73703-05-16 06:15 G 28640662.61 28640662.76 28640662.92 0.0281 0.0053

Saturn 73703-08-12 22:34 G 28640751.33 28640751.44 28640751.55 0.0280 0.0198

Uranus 73704-10-25 23:46 G 28641191.42 28641191.49 28641191.58 0.0135 0.0114

Uranus 73705-01-22 04:19 G 28641279.58 28641279.68 28641279.81 0.0135 0.0093

Uranus 73705-04-20 09:07 G 28641367.75 28641367.88 28641368.02 0.0135 0.0071

Uranus 73705-07-17 13:41 G 28641455.94 28641456.07 28641456.23 0.0135 0.0051

Uranus 73705-10-13 18:29 G 28641544.12 28641544.27 28641544.43 0.0135 0.0029

Uranus 73706-01-09 23:03 G 28641632.31 28641632.46 28641632.62 0.0135 0.0008

Uranus 73706-04-08 03:36 G 28641720.50 28641720.65 28641720.80 0.0135 0.0014

Uranus 73706-07-05 08:10 G 28641808.69 28641808.84 28641808.99 0.0135 0.0034

Uranus 73706-10-01 12:29 G 28641896.88 28641897.02 28641897.16 0.0135 0.0055

Uranus 73706-12-28 17:03 G 28641985.08 28641985.21 28641985.34 0.0135 0.0076

Uranus 73707-03-26 21:07 G 28642073.29 28642073.38 28642073.50 0.0135 0.0097

Uranus 73707-06-23 01:41 G 28642161.50 28642161.57 28642161.65 0.0136 0.0117

Moon 73709-04-01 23:03 G 28642810.37 28642810.46 28642810.55 0.2630 0.1932

Earth 73709-04-02 00:15 G 28642810.43 28642810.51 28642810.58 0.2632 0.2138 *

Jupiter 73709-05-24 20:53 G 28642863.22 28642863.37 28642863.52 0.0541 0.0042

Pluto 73709-09-22 19:27 G 28642984.22 28642984.31 28642984.42 0.0080 0.0062

Pluto 73709-12-19 21:22 G 28643072.26 28643072.39 28643072.53 0.0080 0.0040

Mars 73710-03-10 19:27 G 28643153.22 28643153.31 28643153.39 0.1786 0.1273

Pluto 73710-03-17 23:03 G 28643160.31 28643160.46 28643160.62 0.0080 0.0019

Pluto 73710-06-14 00:43 G 28643248.38 28643248.53 28643248.69 0.0080 0.0003

Pluto 73710-09-10 02:24 G 28643336.45 28643336.60 28643336.76 0.0080 0.0023

Pluto 73710-12-07 04:05 G 28643424.54 28643424.67 28643424.81 0.0080 0.0044

Mars 73711-01-24 05:46 G 28643472.62 28643472.74 28643472.86 0.1722 0.0987

Pluto 73711-03-05 05:46 G 28643512.66 28643512.74 28643512.84 0.0080 0.0065

Venus 73713-05-03 12:29 G 28644302.90 28644303.02 28644303.14 0.3666 0.0275

Earth 73713-09-25 19:41 G 28644448.20 28644448.32 28644448.45 0.2702 0.0306

Moon 73713-09-25 20:39 G 28644448.24 28644448.36 28644448.49 0.2702 0.0168 *

Jupiter 73715-01-09 01:55 G 28644918.47 28644918.58 28644918.70 0.0488 0.0303

Jupiter 73715-04-08 13:41 G 28645007.96 28645008.07 28645008.18 0.0486 0.0348

Earth 73716-03-25 10:19 G 28645359.85 28645359.93 28645360.02 0.2629 0.1928

Moon 73716-03-25 11:03 G 28645359.87 28645359.96 28645360.05 0.2625 0.1827 *

Saturn 73718-02-23 21:51 G 28646060.30 28646060.41 28646060.52 0.0278 0.0186

Saturn 73718-05-23 12:00 G 28646148.86 28646149.00 28646149.15 0.0278 0.0053

Saturn 73718-08-20 02:24 G 28646237.46 28646237.60 28646237.75 0.0278 0.0085

Saturn 73718-11-16 17:17 G 28646326.13 28646326.22 28646326.31 0.0279 0.0224

Venus 73718-11-17 08:24 G 28646326.81 28646326.85 28646326.89 0.3668 0.3412

Mars 73720-06-15 08:39 G 28646902.71 28646902.86 28646903.01 0.1728 0.0038

Jupiter 73721-03-12 21:22 G 28647173.26 28647173.39 28647173.52 0.0541 0.0264

Mars 73721-07-06 19:55 G 28647289.24 28647289.33 28647289.42 0.1806 0.1226

Earth 73726-09-28 17:31 G 28649199.11 28649199.23 28649199.34 0.2702 0.1153

Moon 73726-09-28 18:15 G 28649199.15 28649199.26 28649199.37 0.2697 0.1247 *

Jupiter 73726-10-28 05:17 G 28649228.67 28649228.72 28649228.77 0.0488 0.0456

Jupiter 73727-01-25 16:19 G 28649318.05 28649318.18 28649318.33 0.0487 0.0189

Moon 73729-03-28 08:24 G 28650110.73 28650110.85 28650110.98 0.2623 0.0519

Earth 73729-03-28 08:24 G 28650110.73 28650110.85 28650110.98 0.2630 0.0531 *

Mars 73729-11-05 11:17 G 28650332.84 28650332.97 28650333.10 0.1735 0.0937

Mars 73730-11-27 03:22 G 28650719.52 28650719.64 28650719.76 0.1799 0.0398

Saturn 73732-07-05 12:43 G 28651305.89 28651306.03 28651306.16 0.0281 0.0155

Saturn 73732-10-02 05:31 G 28651394.57 28651394.73 28651394.89 0.0280 0.0008

Saturn 73732-12-29 21:36 G 28651483.27 28651483.40 28651483.54 0.0280 0.0142

Jupiter 73732-12-29 22:19 G 28651483.36 28651483.43 28651483.50 0.0540 0.0479 *

Jupiter 73733-03-29 19:12 G 28651573.21 28651573.30 28651573.39 0.0542 0.0432

Jupiter 73738-11-13 18:58 G 28653628.14 28653628.29 28653628.44 0.0487 0.0023

Moon 73739-10-01 14:53 G 28653950.07 28653950.12 28653950.16 0.2694 0.2497

Earth 73739-10-01 14:53 G 28653950.08 28653950.12 28653950.16 0.2701 0.2552 *

Mars 73740-04-18 11:17 G 28654149.85 28654149.97 28654150.09 0.1793 0.0406

Moon 73742-03-31 06:00 G 28654861.63 28654861.75 28654861.88 0.2627 0.0808

Earth 73742-03-31 06:58 G 28654861.66 28654861.79 28654861.91 0.2631 0.0925 *

Jupiter 73745-01-15 20:10 G 28655883.21 28655883.34 28655883.48 0.0542 0.0218

Uranus 73745-11-07 06:29 G 28656178.70 28656178.77 28656178.86 0.0143 0.0122

Uranus 73746-02-03 11:46 G 28656266.88 28656266.99 28656267.11 0.0143 0.0097

Neptune 73746-03-30 21:07 G 28656322.35 28656322.38 28656322.45 0.0090 0.0085

Uranus 73746-05-02 16:48 G 28656355.07 28656355.20 28656355.34 0.0143 0.0073

Neptune 73746-06-26 23:31 G 28656410.41 28656410.48 28656410.57 0.0090 0.0076

Uranus 73746-07-29 22:05 G 28656443.28 28656443.42 28656443.57 0.0143 0.0048

Neptune 73746-09-23 01:41 G 28656498.48 28656498.57 28656498.69 0.0090 0.0067

Earth 73746-09-24 03:07 G 28656499.53 28656499.63 28656499.74 0.2703 0.1518

Moon 73746-09-24 03:51 G 28656499.56 28656499.66 28656499.77 0.2707 0.1357 *

Uranus 73746-10-26 03:22 G 28656531.49 28656531.64 28656531.80 0.0143 0.0023

Neptune 73746-12-20 03:51 G 28656586.55 28656586.66 28656586.80 0.0090 0.0058

Uranus 73747-01-22 08:39 G 28656619.71 28656619.86 28656620.02 0.0143 0.0004

Neptune 73747-03-18 06:15 G 28656674.63 28656674.76 28656674.90 0.0090 0.0048

Uranus 73747-04-20 13:55 G 28656707.93 28656708.08 28656708.24 0.0143 0.0028

Neptune 73747-06-14 08:24 G 28656762.72 28656762.85 28656763.00 0.0090 0.0040

Saturn 73747-07-13 21:51 G 28656792.34 28656792.41 28656792.48 0.0278 0.0238

Uranus 73747-07-17 19:27 G 28656796.16 28656796.31 28656796.46 0.0143 0.0053

Neptune 73747-09-10 10:34 G 28656850.80 28656850.94 28656851.10 0.0090 0.0031

Saturn 73747-10-10 11:46 G 28656880.86 28656880.99 28656881.13 0.0278 0.0106

Uranus 73747-10-14 00:43 G 28656884.41 28656884.53 28656884.67 0.0143 0.0079

Neptune 73747-12-07 12:58 G 28656938.89 28656939.04 28656939.19 0.0090 0.0022

Saturn 73748-01-07 02:10 G 28656969.44 28656969.59 28656969.74 0.0278 0.0029

Uranus 73748-01-10 06:00 G 28656972.66 28656972.75 28656972.87 0.0143 0.0105

Neptune 73748-03-04 15:07 G 28657026.97 28657027.13 28657027.28 0.0090 0.0013

Saturn 73748-04-04 16:48 G 28657058.08 28657058.20 28657058.32 0.0279 0.0169

Uranus 73748-04-07 11:46 G 28657060.93 28657060.99 28657061.06 0.0142 0.0130

Neptune 73748-05-31 17:17 G 28657115.06 28657115.22 28657115.37 0.0090 0.0004

Neptune 73748-08-27 19:12 G 28657203.15 28657203.30 28657203.46 0.0090 0.0006

Neptune 73748-11-23 21:22 G 28657291.24 28657291.39 28657291.55 0.0090 0.0014

Neptune 73749-02-19 23:31 G 28657379.33 28657379.48 28657379.63 0.0090 0.0022

Neptune 73749-05-19 01:41 G 28657467.42 28657467.57 28657467.72 0.0090 0.0031

Neptune 73749-08-15 03:36 G 28657555.52 28657555.65 28657555.80 0.0090 0.0040

Mars 73749-09-08 19:27 G 28657580.22 28657580.31 28657580.40 0.1786 0.1177

Neptune 73749-11-11 05:46 G 28657643.61 28657643.74 28657643.87 0.0090 0.0048

Neptune 73750-02-07 07:41 G 28657731.71 28657731.82 28657731.95 0.0090 0.0057

Neptune 73750-05-06 10:05 G 28657819.81 28657819.92 28657820.02 0.0090 0.0065

Mars 73750-07-25 06:00 G 28657899.64 28657899.75 28657899.86 0.1722 0.1091

Neptune 73750-08-02 11:46 G 28657907.91 28657907.99 28657908.09 0.0090 0.0074

Jupiter 73750-09-01 21:51 G 28657938.27 28657938.41 28657938.56 0.0487 0.0134

Neptune 73750-10-29 13:55 G 28657996.03 28657996.08 28657996.14 0.0090 0.0082

Venus 73751-10-14 00:43 G 28658345.41 28658345.53 28658345.66 0.3705 0.0223

Moon 73755-04-03 04:34 G 28659612.64 28659612.69 28659612.74 0.2630 0.2390

Earth 73755-04-03 05:46 G 28659612.69 28659612.74 28659612.79 0.2632 0.2422 *

Jupiter 73756-11-03 19:55 G 28660193.17 28660193.33 28660193.48 0.0541 0.0027

Earth 73759-09-27 01:12 G 28661250.42 28661250.55 28661250.67 0.2702 0.0089

Moon 73759-09-27 02:10 G 28661250.46 28661250.59 28661250.71 0.2700 0.0068 *

Mars 73759-12-15 09:07 G 28661329.73 28661329.88 28661330.03 0.1728 0.0174

Mars 73761-01-04 19:55 G 28661716.24 28661716.33 28661716.41 0.1806 0.1319

Saturn 73761-11-22 13:41 G 28662037.96 28662038.07 28662038.19 0.0282 0.0194

Saturn 73762-02-19 06:43 G 28662126.63 28662126.78 28662126.94 0.0281 0.0041

Earth 73762-03-26 15:51 G 28662162.06 28662162.16 28662162.26 0.2630 0.1658

Moon 73762-03-26 16:19 G 28662162.08 28662162.18 28662162.28 0.2624 0.1659 *

Saturn 73762-05-18 23:17 G 28662215.33 28662215.47 28662215.62 0.0281 0.0107

Jupiter 73762-06-21 00:43 G 28662248.42 28662248.53 28662248.65 0.0488 0.0291

Saturn 73762-08-15 15:22 G 28662304.08 28662304.14 28662304.21 0.0280 0.0251

Jupiter 73762-09-18 12:29 G 28662337.92 28662338.02 28662338.12 0.0487 0.0362

Venus 73764-05-24 15:22 G 28662952.06 28662952.14 28662952.23 0.3665 0.2500

Jupiter 73768-08-22 19:55 G 28664503.20 28664503.33 28664503.47 0.0540 0.0253

Mars 73769-05-06 11:46 G 28664759.86 28664759.99 28664760.13 0.1734 0.0809

Venus 73769-12-08 11:03 G 28664975.84 28664975.96 28664976.07 0.3667 0.1052

Mars 73770-05-28 03:22 G 28665146.52 28665146.64 28665146.76 0.1799 0.0483

Earth 73772-09-28 22:48 G 28666001.34 28666001.45 28666001.55 0.2701 0.1422

Moon 73772-09-28 23:17 G 28666001.37 28666001.47 28666001.58 0.2696 0.1493 *

Jupiter 73774-04-09 03:51 G 28666558.61 28666558.66 28666558.72 0.0488 0.0445

Jupiter 73774-07-07 15:07 G 28666648.00 28666648.13 28666648.27 0.0487 0.0201

Moon 73775-03-29 13:55 G 28666912.94 28666913.08 28666913.21 0.2624 0.0261

Earth 73775-03-29 13:55 G 28666912.95 28666913.08 28666913.21 0.2630 0.0255 *

Saturn 73776-11-29 23:46 G 28667524.47 28667524.49 28667524.53 0.0277 0.0270

Saturn 73777-02-26 13:41 G 28667612.95 28667613.07 28667613.20 0.0278 0.0140

Saturn 73777-05-26 04:05 G 28667701.52 28667701.67 28667701.82 0.0278 0.0007

Saturn 73777-08-22 18:29 G 28667790.14 28667790.27 28667790.41 0.0278 0.0132

Saturn 73777-11-19 09:22 G 28667878.87 28667878.89 28667878.92 0.0279 0.0273

Moon 73779-09-22 10:48 G 28668550.93 28668550.95 28668550.97 0.2710 0.2658

Mars 73779-10-18 11:17 G 28668576.85 28668576.97 28668577.10 0.1793 0.0317

Jupiter 73780-06-10 20:10 G 28668813.28 28668813.34 28668813.41 0.0540 0.0481

Jupiter 73780-09-08 17:03 G 28668903.13 28668903.21 28668903.30 0.0542 0.0430

Jupiter 73786-04-25 18:00 G 28670958.10 28670958.25 28670958.40 0.0487 0.0044

Moon 73788-03-31 11:31 G 28671663.86 28671663.98 28671664.10 0.2627 0.1126

Earth 73788-03-31 12:29 G 28671663.90 28671664.02 28671664.13 0.2631 0.1205 *

Uranus 73788-08-19 01:55 G 28671804.55 28671804.58 28671804.63 0.0135 0.0130

Uranus 73788-11-15 06:43 G 28671892.69 28671892.78 28671892.88 0.0135 0.0108

Uranus 73789-02-11 11:17 G 28671980.86 28671980.97 28671981.10 0.0135 0.0087

Mars 73789-03-09 19:27 G 28672007.22 28672007.31 28672007.41 0.1786 0.1081

Uranus 73789-05-10 16:05 G 28672069.04 28672069.17 28672069.31 0.0135 0.0065

Uranus 73789-08-06 20:39 G 28672157.22 28672157.36 28672157.52 0.0135 0.0044

Uranus 73789-11-03 01:27 G 28672245.41 28672245.56 28672245.71 0.0135 0.0023

Mars 73790-01-23 06:29 G 28672326.67 28672326.77 28672326.88 0.1722 0.1217

Uranus 73790-01-30 06:00 G 28672333.59 28672333.75 28672333.91 0.0135 0.0002

Uranus 73790-04-28 10:34 G 28672421.79 28672421.94 28672422.09 0.0135 0.0019

Uranus 73790-07-25 14:53 G 28672509.98 28672510.12 28672510.27 0.0135 0.0041

Uranus 73790-10-21 19:27 G 28672598.18 28672598.31 28672598.45 0.0135 0.0061

Uranus 73791-01-18 00:00 G 28672686.38 28672686.50 28672686.62 0.0135 0.0082

Saturn 73791-04-11 12:43 G 28672769.96 28672770.03 28672770.10 0.0281 0.0251

Uranus 73791-04-16 04:05 G 28672774.58 28672774.67 28672774.78 0.0135 0.0103

Saturn 73791-07-09 05:46 G 28672858.60 28672858.74 28672858.90 0.0281 0.0098

Uranus 73791-07-13 08:39 G 28672862.80 28672862.86 28672862.93 0.0136 0.0123

Saturn 73791-10-05 22:34 G 28672947.28 28672947.44 28672947.60 0.0280 0.0051

Saturn 73792-01-02 14:53 G 28673036.01 28673036.12 28673036.23 0.0280 0.0196

Jupiter 73792-06-27 18:29 G 28673213.13 28673213.27 28673213.41 0.0542 0.0222

Earth 73792-09-24 08:24 G 28673301.74 28673301.85 28673301.97 0.2703 0.1236

Moon 73792-09-24 09:22 G 28673301.78 28673301.89 28673302.00 0.2706 0.1220 *

Jupiter 73798-02-11 20:39 G 28675268.22 28675268.36 28675268.51 0.0487 0.0120

Mars 73799-06-15 09:36 G 28675756.75 28675756.90 28675757.05 0.1728 0.0286

Mars 73800-07-06 19:55 G 28676143.26 28676143.33 28676143.41 0.1806 0.1418

Moon 73801-04-04 10:05 G 28676414.89 28676414.92 28676414.96 0.2632 0.2544

Venus 73802-11-05 02:39 G 28676994.53 28676994.61 28676994.69 0.3706 0.2826

Jupiter 73804-04-16 19:27 G 28677523.16 28677523.31 28677523.46 0.0541 0.0009

Earth 73805-09-28 06:29 G 28678052.64 28678052.77 28678052.89 0.2702 0.0254

Moon 73805-09-28 07:27 G 28678052.68 28678052.81 28678052.93 0.2700 0.0432 *

Saturn 73806-07-17 13:27 G 28678344.96 28678345.06 28678345.17 0.0278 0.0194

Saturn 73806-10-14 03:36 G 28678433.50 28678433.65 28678433.79 0.0278 0.0062

Saturn 73807-01-10 18:00 G 28678522.10 28678522.25 28678522.39 0.0278 0.0075

Saturn 73807-04-09 08:39 G 28678610.77 28678610.86 28678610.96 0.0279 0.0214

Earth 73808-03-27 21:07 G 28678964.27 28678964.38 28678964.49 0.2630 0.1396

Moon 73808-03-27 21:36 G 28678964.29 28678964.40 28678964.51 0.2623 0.1275 *

Venus 73808-05-20 23:31 G 28679018.37 28679018.48 28679018.60 0.3705 0.1276

Mars 73808-11-05 12:15 G 28679186.87 28679187.01 28679187.15 0.1735 0.0687

Mars 73809-11-27 03:22 G 28679573.53 28679573.64 28679573.76 0.1799 0.0584

Jupiter 73809-12-01 23:46 G 28679578.37 28679578.49 28679578.61 0.0488 0.0276

Jupiter 73810-03-01 11:17 G 28679667.88 28679667.97 28679668.07 0.0486 0.0376

Jupiter 73816-02-03 18:58 G 28681833.16 28681833.29 28681833.43 0.0540 0.0233

Mars 73818-03-28 14:39 G 28682617.08 28682617.11 28682617.14 0.1741 0.1688

Earth 73818-10-01 04:05 G 28682803.58 28682803.67 28682803.77 0.2701 0.1693

Moon 73818-10-01 04:34 G 28682803.59 28682803.69 28682803.79 0.2695 0.1693 *

Mars 73819-04-19 11:17 G 28683003.85 28683003.97 28683004.10 0.1792 0.0224

Saturn 73820-11-26 06:43 G 28683590.65 28683590.78 28683590.92 0.0282 0.0138

Venus 73820-12-30 13:41 G 28683624.96 28683625.07 28683625.18 0.3666 0.1233

Saturn 73821-02-22 23:46 G 28683679.33 28683679.49 28683679.65 0.0281 0.0014

Moon 73821-03-30 18:58 G 28683715.16 28683715.29 28683715.43 0.2624 0.0104

Earth 73821-03-30 19:27 G 28683715.18 28683715.31 28683715.44 0.2630 0.0049 *

Saturn 73821-05-22 16:05 G 28683768.04 28683768.17 28683768.30 0.0281 0.0160

Jupiter 73821-09-20 02:39 G 28683888.55 28683888.61 28683888.68 0.0489 0.0433

Jupiter 73821-12-18 13:55 G 28683977.95 28683978.08 28683978.22 0.0487 0.0215

Earth 73825-09-23 15:51 G 28685353.11 28685353.16 28685353.21 0.2703 0.2477

Moon 73825-09-23 16:19 G 28685353.13 28685353.18 28685353.23 0.2710 0.2482 *

Venus 73826-07-16 09:22 G 28685648.80 28685648.89 28685648.98 0.3667 0.2399

Jupiter 73827-11-22 18:58 G 28686143.22 28686143.29 28686143.37 0.0540 0.0466

Jupiter 73828-02-20 15:51 G 28686233.08 28686233.16 28686233.24 0.0542 0.0441

Mars 73828-09-08 19:27 G 28686434.21 28686434.31 28686434.41 0.1786 0.0996

Neptune 73828-12-11 20:10 G 28686528.29 28686528.34 28686528.38 0.0088 0.0083

Neptune 73829-03-09 22:05 G 28686616.34 28686616.42 28686616.50 0.0088 0.0075

Neptune 73829-06-06 00:00 G 28686704.41 28686704.50 28686704.61 0.0088 0.0067

Mars 73829-07-25 07:12 G 28686753.70 28686753.80 28686753.89 0.1722 0.1341

Uranus 73829-09-01 08:39 G 28686791.83 28686791.86 28686791.90 0.0143 0.0138

Neptune 73829-09-02 01:55 G 28686792.48 28686792.58 28686792.71 0.0088 0.0059

Uranus 73829-11-28 13:41 G 28686879.99 28686880.07 28686880.17 0.0143 0.0114

Neptune 73829-11-29 04:05 G 28686880.55 28686880.67 28686880.81 0.0088 0.0051

Uranus 73830-02-24 18:43 G 28686968.17 28686968.28 28686968.41 0.0143 0.0090

Neptune 73830-02-25 06:00 G 28686968.63 28686968.75 28686968.90 0.0088 0.0043

Uranus 73830-05-24 00:15 G 28687056.37 28687056.51 28687056.64 0.0143 0.0065

Neptune 73830-05-24 08:24 G 28687056.71 28687056.85 28687057.00 0.0088 0.0034

Uranus 73830-08-20 05:17 G 28687144.57 28687144.72 28687144.87 0.0143 0.0041

Neptune 73830-08-20 10:19 G 28687144.79 28687144.93 28687145.09 0.0088 0.0026 *

Uranus 73830-11-16 10:34 G 28687232.79 28687232.94 28687233.10 0.0143 0.0016

Neptune 73830-11-16 12:29 G 28687232.87 28687233.02 28687233.18 0.0088 0.0018 *

Neptune 73831-02-12 14:39 G 28687320.95 28687321.11 28687321.27 0.0088 0.0009

Uranus 73831-02-12 15:51 G 28687321.01 28687321.16 28687321.32 0.0143 0.0010 *

Neptune 73831-05-11 16:48 G 28687409.04 28687409.20 28687409.36 0.0088 0.0001

Uranus 73831-05-11 21:22 G 28687409.23 28687409.39 28687409.54 0.0143 0.0035 *

Neptune 73831-08-07 18:58 G 28687497.13 28687497.29 28687497.45 0.0088 0.0008

Uranus 73831-08-08 02:24 G 28687497.47 28687497.60 28687497.75 0.0143 0.0061

Neptune 73831-11-03 21:07 G 28687585.22 28687585.38 28687585.54 0.0088 0.0016

Uranus 73831-11-04 07:55 G 28687585.71 28687585.83 28687585.96 0.0143 0.0086

Neptune 73832-01-30 23:03 G 28687673.32 28687673.46 28687673.62 0.0088 0.0025

Uranus 73832-01-31 13:27 G 28687673.97 28687674.06 28687674.16 0.0143 0.0112

Neptune 73832-04-28 01:27 G 28687761.41 28687761.56 28687761.71 0.0088 0.0033

Uranus 73832-04-28 18:58 G 28687762.26 28687762.29 28687762.34 0.0142 0.0137

Neptune 73832-07-25 03:22 G 28687849.51 28687849.64 28687849.79 0.0088 0.0042

Neptune 73832-10-21 05:46 G 28687937.61 28687937.74 28687937.87 0.0088 0.0050

Neptune 73833-01-17 07:55 G 28688025.72 28688025.83 28688025.95 0.0088 0.0059

Neptune 73833-04-15 09:51 G 28688113.83 28688113.91 28688114.03 0.0088 0.0068

Neptune 73833-07-12 12:29 G 28688201.94 28688202.02 28688202.10 0.0088 0.0076

Jupiter 73833-10-06 16:48 G 28688288.05 28688288.20 28688288.35 0.0487 0.0055

Neptune 73833-10-08 14:24 G 28688290.08 28688290.10 28688290.15 0.0088 0.0085

Moon 73834-04-02 17:03 G 28688466.09 28688466.21 28688466.32 0.2627 0.1384

Earth 73834-04-02 18:00 G 28688466.14 28688466.25 28688466.36 0.2631 0.1490 *

Saturn 73835-12-04 15:51 G 28689077.07 28689077.16 28689077.24 0.0277 0.0225

Saturn 73836-03-02 05:46 G 28689165.60 28689165.74 28689165.88 0.0278 0.0094

Saturn 73836-05-29 20:10 G 28689254.19 28689254.34 28689254.48 0.0278 0.0042

Saturn 73836-08-26 10:34 G 28689342.83 28689342.94 28689343.06 0.0278 0.0180

Mars 73838-01-30 03:51 G 28689864.64 28689864.66 28689864.69 0.1779 0.1728

Earth 73838-09-26 13:55 G 28690103.96 28690104.08 28690104.20 0.2703 0.0948

Moon 73838-09-26 14:53 G 28690104.00 28690104.12 28690104.24 0.2704 0.0771 *

Mars 73838-12-15 10:05 G 28690183.78 28690183.92 28690184.07 0.1728 0.0411

Jupiter 73839-12-09 16:34 G 28690543.05 28690543.19 28690543.32 0.0542 0.0222

Mars 73840-01-05 19:55 G 28690570.27 28690570.33 28690570.40 0.1806 0.1511

Earth 73841-03-26 04:48 G 28691015.66 28691015.70 28691015.73 0.2629 0.2501

Moon 73841-03-26 05:31 G 28691015.67 28691015.73 28691015.79 0.2626 0.2340 *

Jupiter 73845-07-25 19:41 G 28692598.18 28692598.32 28692598.47 0.0488 0.0103

Mars 73848-05-06 12:43 G 28693613.89 28693614.03 28693614.18 0.1735 0.0558

Mars 73849-05-28 03:36 G 28694000.53 28694000.65 28694000.76 0.1799 0.0683

Saturn 73850-04-15 06:00 G 28694322.64 28694322.75 28694322.87 0.0281 0.0194

Saturn 73850-07-12 23:03 G 28694411.30 28694411.46 28694411.62 0.0281 0.0042

Saturn 73850-10-09 15:36 G 28694500.01 28694500.15 28694500.30 0.0280 0.0107

Saturn 73851-01-06 07:41 G 28694588.76 28694588.82 28694588.89 0.0280 0.0250

Jupiter 73851-09-27 17:31 G 28694853.08 28694853.23 28694853.38 0.0541 0.0014

Earth 73851-09-29 11:46 G 28694854.87 28694854.99 28694855.12 0.2702 0.0535

Moon 73851-09-29 12:43 G 28694854.91 28694855.03 28694855.16 0.2700 0.0555 *

Earth 73854-03-29 02:39 G 28695766.49 28695766.61 28695766.72 0.2630 0.1130

Moon 73854-03-29 02:53 G 28695766.51 28695766.62 28695766.74 0.2623 0.1164 *

Jupiter 73857-05-13 22:34 G 28696908.32 28696908.44 28696908.57 0.0488 0.0263

Jupiter 73857-08-11 10:05 G 28696997.84 28696997.92 28696998.01 0.0486 0.0390

Mars 73857-09-26 14:53 G 28697044.06 28697044.12 28697044.19 0.1741 0.1572

Mars 73858-10-18 11:17 G 28697430.85 28697430.97 28697431.10 0.1792 0.0136

Venus 73859-06-12 01:27 G 28697667.45 28697667.56 28697667.67 0.3706 0.1327

Jupiter 73863-07-16 18:29 G 28699163.13 28699163.27 28699163.41 0.0541 0.0206

Earth 73864-10-01 09:22 G 28699605.81 28699605.89 28699605.97 0.2701 0.1957

Moon 73864-10-01 09:36 G 28699605.82 28699605.90 28699605.98 0.2694 0.2037 *

Venus 73864-12-25 22:19 G 28699691.35 28699691.43 28699691.51 0.3704 0.2725

Saturn 73865-07-20 05:17 G 28699897.60 28699897.72 28699897.85 0.0278 0.0148

Saturn 73865-10-16 19:27 G 28699986.16 28699986.31 28699986.46 0.0278 0.0015

Saturn 73866-01-13 09:51 G 28700074.78 28700074.91 28700075.05 0.0278 0.0122

Pluto 73866-03-11 05:17 G 28700131.66 28700131.72 28700131.82 0.0064 0.0055

Saturn 73866-04-12 00:43 G 28700163.49 28700163.53 28700163.58 0.0279 0.0263

Pluto 73866-06-07 06:15 G 28700219.66 28700219.76 28700219.88 0.0064 0.0044

Pluto 73866-09-03 06:58 G 28700307.67 28700307.79 28700307.94 0.0064 0.0034

Pluto 73866-11-30 07:55 G 28700395.69 28700395.83 28700395.98 0.0064 0.0023

Pluto 73867-02-26 08:53 G 28700483.71 28700483.87 28700484.02 0.0064 0.0012

Moon 73867-04-01 00:15 G 28700517.38 28700517.51 28700517.64 0.2625 0.0301

Earth 73867-04-01 00:43 G 28700517.40 28700517.53 28700517.66 0.2630 0.0298 *

Pluto 73867-05-25 09:36 G 28700571.74 28700571.90 28700572.06 0.0064 0.0001

Pluto 73867-08-21 10:19 G 28700659.78 28700659.93 28700660.09 0.0065 0.0010

Pluto 73867-11-17 11:17 G 28700747.82 28700747.97 28700748.12 0.0065 0.0021

Pluto 73868-02-13 11:46 G 28700835.87 28700835.99 28700836.14 0.0065 0.0032

Mars 73868-03-09 19:27 G 28700861.21 28700861.31 28700861.42 0.1786 0.0898

Pluto 73868-05-11 12:29 G 28700923.92 28700924.02 28700924.15 0.0065 0.0043

Pluto 73868-08-07 13:12 G 28701011.98 28701012.05 28701012.16 0.0065 0.0054

Pluto 73868-11-03 14:24 G 28701100.10 28701100.10 28701100.11 0.0065 0.0065

Mars 73869-01-23 07:27 G 28701180.73 28701180.81 28701180.89 0.1722 0.1448

Jupiter 73869-03-02 01:41 G 28701218.50 28701218.57 28701218.64 0.0488 0.0417

Jupiter 73869-05-30 12:58 G 28701307.91 28701308.04 28701308.17 0.0487 0.0229

Earth 73871-09-24 21:07 G 28702155.31 28702155.38 28702155.45 0.2703 0.2189

Moon 73871-09-24 21:51 G 28702155.33 28702155.41 28702155.48 0.2709 0.2099 *

Venus 73872-01-21 16:48 G 28702274.16 28702274.20 28702274.24 0.3665 0.3420

Uranus 73872-09-09 08:39 G 28702505.81 28702505.86 28702505.92 0.0135 0.0125

Uranus 73872-12-06 13:27 G 28702593.96 28702594.06 28702594.16 0.0135 0.0103

Uranus 73873-03-04 18:00 G 28702682.13 28702682.25 28702682.38 0.0135 0.0082

Uranus 73873-05-31 22:48 G 28702770.31 28702770.45 28702770.59 0.0135 0.0060

Uranus 73873-08-28 03:22 G 28702858.50 28702858.64 28702858.80 0.0135 0.0039

Uranus 73873-11-24 08:10 G 28702946.68 28702946.84 28702946.99 0.0135 0.0018

Uranus 73874-02-20 12:43 G 28703034.87 28703035.03 28703035.18 0.0135 0.0004

Uranus 73874-05-19 17:17 G 28703123.07 28703123.22 28703123.37 0.0135 0.0024

Uranus 73874-08-15 21:36 G 28703211.26 28703211.40 28703211.55 0.0135 0.0046

Uranus 73874-11-12 02:10 G 28703299.46 28703299.59 28703299.73 0.0135 0.0066

Uranus 73875-02-08 06:43 G 28703387.66 28703387.78 28703387.90 0.0135 0.0087

Jupiter 73875-05-04 18:00 G 28703473.17 28703473.25 28703473.34 0.0539 0.0445

Uranus 73875-05-07 10:48 G 28703475.87 28703475.95 28703476.06 0.0136 0.0108

Jupiter 73875-08-02 14:53 G 28703563.05 28703563.12 28703563.20 0.0541 0.0461

Uranus 73875-08-03 15:22 G 28703564.10 28703564.14 28703564.19 0.0136 0.0128

Mars 73877-07-31 03:51 G 28704291.61 28704291.66 28704291.70 0.1779 0.1644

Venus 73877-08-06 12:15 G 28704297.89 28704298.01 28704298.13 0.3666 0.0101

Mars 73878-06-15 10:34 G 28704610.80 28704610.94 28704611.09 0.1728 0.0538

Mars 73879-07-06 19:55 G 28704997.28 28704997.33 28704997.39 0.1806 0.1610

Saturn 73879-09-02 06:29 G 28705054.69 28705054.77 28705054.86 0.0282 0.0239

Saturn 73879-11-29 23:46 G 28705143.34 28705143.49 28705143.64 0.0282 0.0084

Saturn 73880-02-26 16:34 G 28705232.03 28705232.19 28705232.34 0.0281 0.0066

Moon 73880-04-02 22:34 G 28705268.33 28705268.44 28705268.54 0.2628 0.1659

Earth 73880-04-02 23:31 G 28705268.38 28705268.48 28705268.57 0.2631 0.1777 *

Saturn 73880-05-25 08:39 G 28705320.77 28705320.86 28705320.97 0.0281 0.0213

Jupiter 73881-03-18 15:36 G 28705618.00 28705618.15 28705618.30 0.0488 0.0067

Earth 73884-09-26 19:27 G 28706906.18 28706906.31 28706906.43 0.2703 0.0674

Moon 73884-09-26 20:24 G 28706906.23 28706906.35 28706906.47 0.2703 0.0617 *

Earth 73887-03-27 10:05 G 28707817.85 28707817.92 28707817.98 0.2629 0.2238

Moon 73887-03-27 10:48 G 28707817.88 28707817.95 28707818.02 0.2624 0.2217 *

Jupiter 73887-05-21 15:22 G 28707873.00 28707873.14 28707873.27 0.0541 0.0236

Mars 73887-11-05 13:27 G 28708040.91 28708041.06 28708041.21 0.1734 0.0429

Mars 73888-11-26 03:22 G 28708427.53 28708427.64 28708427.75 0.1799 0.0764

Jupiter 73893-01-04 18:29 G 28709928.12 28709928.27 28709928.41 0.0488 0.0093

Saturn 73894-12-07 07:55 G 28710629.72 28710629.83 28710629.94 0.0277 0.0177

Saturn 73895-03-05 21:51 G 28710718.27 28710718.41 28710718.56 0.0278 0.0046

Saturn 73895-06-02 12:15 G 28710806.87 28710807.01 28710807.16 0.0278 0.0091

Saturn 73895-08-30 02:53 G 28710895.54 28710895.62 28710895.71 0.0278 0.0230

Mars 73897-03-27 15:36 G 28711471.06 28711471.15 28711471.23 0.1741 0.1437

Earth 73897-09-29 17:17 G 28711657.10 28711657.22 28711657.34 0.2702 0.0810

Moon 73897-09-29 18:00 G 28711657.13 28711657.25 28711657.37 0.2698 0.0968 *

Mars 73898-04-18 11:31 G 28711857.86 28711857.98 28711858.10 0.1793 0.0026

Jupiter 73899-03-09 15:36 G 28712183.00 28712183.15 28712183.30 0.0541 0.0011

Earth 73900-03-30 07:55 G 28712568.71 28712568.83 28712568.96 0.2630 0.0861

Moon 73900-03-30 08:10 G 28712568.72 28712568.84 28712568.97 0.2624 0.0760 *

Jupiter 73904-10-24 21:22 G 28714238.27 28714238.39 28714238.52 0.0488 0.0248

Jupiter 73905-01-22 09:07 G 28714327.80 28714327.88 28714327.96 0.0486 0.0406

Mars 73907-09-09 19:27 G 28715288.20 28715288.31 28715288.42 0.1786 0.0805

Mars 73908-07-25 07:55 G 28715607.77 28715607.83 28715607.89 0.1722 0.1570

Saturn 73909-04-18 23:31 G 28715875.34 28715875.48 28715875.62 0.0281 0.0136

Saturn 73909-07-16 16:19 G 28715964.03 28715964.18 28715964.34 0.0281 0.0017

Saturn 73909-10-13 08:53 G 28716052.74 28716052.87 28716053.00 0.0281 0.0162

Neptune 73910-09-30 18:15 G 28716405.25 28716405.26 28716405.31 0.0090 0.0088

Earth 73910-10-03 14:39 G 28716408.04 28716408.11 28716408.18 0.2701 0.2229

Moon 73910-10-03 14:53 G 28716408.05 28716408.12 28716408.19 0.2694 0.2167 *

Jupiter 73910-12-27 16:34 G 28716493.05 28716493.19 28716493.33 0.0541 0.0206

Neptune 73910-12-27 20:39 G 28716493.30 28716493.36 28716493.45 0.0090 0.0079 *

Neptune 73911-03-25 22:48 G 28716581.37 28716581.45 28716581.57 0.0090 0.0070

Neptune 73911-06-22 01:12 G 28716669.44 28716669.55 28716669.68 0.0090 0.0060

Neptune 73911-09-18 03:22 G 28716757.52 28716757.64 28716757.78 0.0090 0.0052

Neptune 73911-12-15 05:31 G 28716845.60 28716845.73 28716845.88 0.0090 0.0043

Neptune 73912-03-12 07:55 G 28716933.69 28716933.83 28716933.98 0.0090 0.0033

Neptune 73912-06-08 10:05 G 28717021.78 28717021.92 28717022.08 0.0090 0.0025

Neptune 73912-09-04 12:15 G 28717109.86 28717110.01 28717110.17 0.0090 0.0016

Neptune 73912-12-01 14:39 G 28717197.95 28717198.11 28717198.26 0.0090 0.0007

Neptune 73913-02-27 16:48 G 28717286.04 28717286.20 28717286.35 0.0090 0.0003

Moon 73913-04-02 05:46 G 28717319.60 28717319.74 28717319.87 0.2625 0.0441

Earth 73913-04-02 06:15 G 28717319.63 28717319.76 28717319.89 0.2631 0.0578 *

Neptune 73913-05-26 18:43 G 28717374.13 28717374.28 28717374.44 0.0090 0.0012

Neptune 73913-08-22 20:53 G 28717462.22 28717462.37 28717462.53 0.0090 0.0020

Uranus 73913-09-22 15:51 G 28717493.11 28717493.16 28717493.23 0.0143 0.0131

Neptune 73913-11-18 23:03 G 28717550.32 28717550.46 28717550.61 0.0090 0.0028

Uranus 73913-12-19 20:53 G 28717581.28 28717581.37 28717581.48 0.0143 0.0107

Neptune 73914-02-15 00:58 G 28717638.41 28717638.54 28717638.69 0.0090 0.0038

Uranus 73914-03-18 02:10 G 28717669.47 28717669.59 28717669.72 0.0143 0.0082

Neptune 73914-05-14 03:07 G 28717726.51 28717726.63 28717726.77 0.0090 0.0046

Uranus 73914-06-14 07:27 G 28717757.67 28717757.81 28717757.95 0.0143 0.0057

Neptune 73914-08-10 05:03 G 28717814.60 28717814.71 28717814.85 0.0090 0.0055

Uranus 73914-09-10 12:43 G 28717845.88 28717846.03 28717846.18 0.0143 0.0033

Neptune 73914-11-06 07:27 G 28717902.70 28717902.81 28717902.92 0.0090 0.0063

Uranus 73914-12-07 18:00 G 28717934.09 28717934.25 28717934.41 0.0143 0.0008

Neptune 73915-02-02 09:07 G 28717990.81 28717990.88 28717990.99 0.0090 0.0072

Uranus 73915-03-05 23:17 G 28718022.31 28718022.47 28718022.63 0.0143 0.0017

Neptune 73915-05-01 11:31 G 28718078.92 28718078.98 28718079.05 0.0090 0.0080

Uranus 73915-06-02 04:34 G 28718110.54 28718110.69 28718110.84 0.0143 0.0043

Neptune 73915-07-28 13:41 G 28718167.05 28718167.07 28718167.09 0.0090 0.0088

Uranus 73915-08-29 09:51 G 28718198.78 28718198.91 28718199.06 0.0143 0.0069

Uranus 73915-11-25 15:22 G 28718287.03 28718287.14 28718287.26 0.0143 0.0094

Venus 73916-01-18 00:15 G 28718340.39 28718340.51 28718340.64 0.3706 0.0192

Uranus 73916-02-21 20:53 G 28718375.29 28718375.37 28718375.46 0.0143 0.0120

Jupiter 73916-08-13 00:15 G 28718548.44 28718548.51 28718548.60 0.0488 0.0406

Jupiter 73916-11-10 11:31 G 28718637.85 28718637.98 28718638.11 0.0487 0.0241

Mars 73917-01-30 03:51 G 28718718.60 28718718.66 28718718.72 0.1779 0.1549

Earth 73917-09-26 02:39 G 28718957.52 28718957.61 28718957.70 0.2703 0.1902

Moon 73917-09-26 03:22 G 28718957.55 28718957.64 28718957.73 0.2708 0.1824 *

Mars 73917-12-15 11:03 G 28719037.82 28719037.96 28719038.10 0.1728 0.0655

Mars 73919-01-05 19:55 G 28719424.30 28719424.33 28719424.37 0.1806 0.1703

Jupiter 73922-10-15 17:17 G 28720803.12 28720803.22 28720803.31 0.0540 0.0424

Jupiter 73923-01-13 13:55 G 28720893.02 28720893.08 28720893.15 0.0542 0.0485

Saturn 73924-04-26 07:27 G 28721361.74 28721361.81 28721361.90 0.0277 0.0231

Saturn 73924-07-23 21:36 G 28721450.26 28721450.40 28721450.54 0.0278 0.0100

Saturn 73924-10-20 11:46 G 28721538.84 28721538.99 28721539.14 0.0278 0.0035

Saturn 73925-01-17 02:24 G 28721627.48 28721627.60 28721627.72 0.0278 0.0172

Moon 73926-04-05 03:51 G 28722070.58 28722070.66 28722070.75 0.2630 0.1997

Earth 73926-04-05 04:48 G 28722070.62 28722070.70 28722070.79 0.2631 0.2059 *

Mars 73927-05-07 13:41 G 28722467.92 28722468.07 28722468.22 0.1735 0.0313

Mars 73928-05-28 03:36 G 28722854.54 28722854.65 28722854.76 0.1799 0.0868

Venus 73928-08-28 15:07 G 28722947.04 28722947.13 28722947.23 0.3665 0.2146

Jupiter 73928-08-29 14:24 G 28722947.95 28722948.10 28722948.25 0.0487 0.0081

Earth 73930-09-29 00:43 G 28723708.40 28723708.53 28723708.65 0.2703 0.0385

Moon 73930-09-29 01:41 G 28723708.45 28723708.57 28723708.70 0.2703 0.0230 *

Earth 73933-03-28 15:22 G 28724620.06 28724620.14 28724620.23 0.2629 0.1976

Moon 73933-03-28 16:05 G 28724620.08 28724620.17 28724620.27 0.2624 0.1851 *

Venus 73934-03-14 10:48 G 28724970.84 28724970.95 28724971.06 0.3666 0.1422

Jupiter 73934-11-01 14:10 G 28725202.96 28725203.09 28725203.23 0.0541 0.0256

Mars 73936-09-26 16:19 G 28725898.08 28725898.18 28725898.28 0.1741 0.1299

Mars 73937-10-18 11:31 G 28726284.85 28726284.98 28726285.10 0.1792 0.0082

Saturn 73938-09-05 23:46 G 28726607.37 28726607.49 28726607.62 0.0282 0.0182

Saturn 73938-12-03 16:48 G 28726696.05 28726696.20 28726696.36 0.0282 0.0030

Saturn 73939-03-02 09:36 G 28726784.76 28726784.90 28726785.04 0.0282 0.0121

Saturn 73939-05-30 01:41 G 28726873.53 28726873.57 28726873.62 0.0281 0.0265

Jupiter 73940-06-17 17:03 G 28727258.06 28727258.21 28727258.36 0.0488 0.0083

Earth 73943-10-01 22:34 G 28728459.32 28728459.44 28728459.55 0.2702 0.1081

Moon 73943-10-01 23:03 G 28728459.35 28728459.46 28728459.58 0.2697 0.1081 *

Moon 73946-03-31 13:27 G 28729370.93 28729371.06 28729371.19 0.2624 0.0649

Earth 73946-03-31 13:27 G 28729370.93 28729371.06 28729371.19 0.2630 0.0585 *

Jupiter 73946-08-20 14:24 G 28729512.95 28729513.10 28729513.26 0.0540 0.0031

Mars 73947-03-10 19:27 G 28729715.20 28729715.31 28729715.42 0.1786 0.0715

Mars 73948-01-24 08:24 G 28730034.83 28730034.85 28730034.88 0.1722 0.1695

Jupiter 73952-04-05 19:55 G 28731568.20 28731568.33 28731568.46 0.0488 0.0240

Jupiter 73952-07-04 07:27 G 28731657.74 28731657.81 28731657.89 0.0487 0.0415

Saturn 73953-09-13 10:34 G 28732093.89 28732093.94 28732094.00 0.0277 0.0255

Saturn 73953-12-11 00:29 G 28732182.39 28732182.52 28732182.65 0.0277 0.0126

Saturn 73954-03-09 14:39 G 28732270.96 28732271.11 28732271.26 0.0277 0.0008

Saturn 73954-06-06 05:03 G 28732359.58 28732359.71 28732359.84 0.0278 0.0144

Pluto 73955-05-25 10:05 G 28732712.83 28732712.92 28732713.03 0.0080 0.0062

Pluto 73955-08-21 11:46 G 28732800.86 28732800.99 28732801.13 0.0080 0.0041

Pluto 73955-11-17 13:41 G 28732888.91 28732889.07 28732889.22 0.0080 0.0019

Pluto 73956-02-13 15:22 G 28732976.98 28732977.14 28732977.30 0.0080 0.0002

Pluto 73956-05-11 16:48 G 28733065.06 28733065.20 28733065.36 0.0080 0.0023

Mars 73956-07-31 03:51 G 28733145.60 28733145.66 28733145.73 0.1779 0.1454

Pluto 73956-08-07 18:29 G 28733153.15 28733153.27 28733153.41 0.0080 0.0044

Uranus 73956-09-30 15:36 G 28733207.08 28733207.15 28733207.22 0.0135 0.0119

Earth 73956-10-03 19:55 G 28733210.29 28733210.33 28733210.38 0.2701 0.2491

Moon 73956-10-03 20:10 G 28733210.30 28733210.34 28733210.37 0.2694 0.2569 *

Pluto 73956-11-03 19:55 G 28733241.26 28733241.33 28733241.44 0.0080 0.0065

Uranus 73956-12-27 20:10 G 28733295.24 28733295.34 28733295.46 0.0135 0.0098

Uranus 73957-03-26 00:58 G 28733383.41 28733383.54 28733383.67 0.0135 0.0076

Mars 73957-06-15 11:31 G 28733464.85 28733464.98 28733465.12 0.1728 0.0772

Uranus 73957-06-22 05:31 G 28733471.59 28733471.73 28733471.88 0.0135 0.0055

Uranus 73957-09-18 10:19 G 28733559.78 28733559.93 28733560.08 0.0135 0.0033

Uranus 73957-12-15 14:53 G 28733647.97 28733648.12 28733648.28 0.0135 0.0013

Uranus 73958-03-13 19:27 G 28733736.16 28733736.31 28733736.47 0.0135 0.0010

Jupiter 73958-06-08 14:24 G 28733822.96 28733823.10 28733823.24 0.0540 0.0206

Uranus 73958-06-10 00:00 G 28733824.35 28733824.50 28733824.66 0.0135 0.0030

Mars 73958-07-06 20:10 G 28733851.33 28733851.34 28733851.35 0.1806 0.1800

Uranus 73958-09-06 04:34 G 28733912.55 28733912.69 28733912.84 0.0135 0.0051

Uranus 73958-12-03 09:07 G 28734000.75 28734000.88 28734001.01 0.0135 0.0072

Uranus 73959-03-01 13:27 G 28734088.95 28734089.06 28734089.18 0.0135 0.0092

Moon 73959-04-03 11:03 G 28734121.84 28734121.96 28734122.09 0.2625 0.0864

Earth 73959-04-03 11:46 G 28734121.87 28734121.99 28734122.11 0.2631 0.0853 *

Uranus 73959-05-28 18:00 G 28734177.17 28734177.25 28734177.33 0.0136 0.0113

Uranus 73959-08-24 22:05 G 28734265.41 28734265.42 28734265.46 0.0136 0.0134

Earth 73963-09-27 07:55 G 28735759.73 28735759.83 28735759.94 0.2703 0.1613

Moon 73963-09-27 08:53 G 28735759.77 28735759.87 28735759.98 0.2706 0.1549 *

Jupiter 73964-01-23 23:03 G 28735878.38 28735878.46 28735878.55 0.0489 0.0394

Jupiter 73964-04-22 10:19 G 28735967.80 28735967.93 28735968.06 0.0487 0.0254

Mars 73966-11-05 14:24 G 28736894.95 28736895.10 28736895.25 0.1735 0.0178

Venus 73967-02-08 02:10 G 28736989.49 28736989.59 28736989.68 0.3707 0.2482

Mars 73967-11-27 03:36 G 28737281.55 28737281.65 28737281.76 0.1799 0.0964

Saturn 73968-01-23 23:46 G 28737339.41 28737339.49 28737339.59 0.0282 0.0230

Saturn 73968-04-21 17:03 G 28737428.06 28737428.21 28737428.37 0.0281 0.0076

Saturn 73968-07-19 09:51 G 28737516.76 28737516.91 28737517.07 0.0281 0.0074

Saturn 73968-10-16 02:10 G 28737605.50 28737605.59 28737605.69 0.0281 0.0220

Jupiter 73970-03-27 15:07 G 28738133.04 28738133.13 28738133.22 0.0540 0.0427

Jupiter 73970-06-25 12:00 G 28738222.94 28738223.00 28738223.07 0.0542 0.0483

Moon 73972-04-05 09:22 G 28738872.82 28738872.89 28738872.96 0.2632 0.2164

Earth 73972-04-05 10:19 G 28738872.88 28738872.93 28738872.99 0.2631 0.2351 *

Venus 73972-08-23 23:03 G 28739013.36 28739013.46 28739013.57 0.3705 0.1651

Jupiter 73976-02-09 12:58 G 28740277.89 28740278.04 28740278.19 0.0487 0.0090

Mars 73976-03-27 16:34 G 28740325.08 28740325.19 28740325.30 0.1741 0.1180

Earth 73976-09-29 06:00 G 28740510.63 28740510.75 28740510.88 0.2703 0.0126

Moon 73976-09-29 07:12 G 28740510.67 28740510.80 28740510.92 0.2702 0.0096 *

Mars 73977-04-18 11:31 G 28740711.86 28740711.98 28740712.10 0.1792 0.0157

Earth 73979-03-29 20:53 G 28741422.27 28741422.37 28741422.46 0.2629 0.1714

Moon 73979-03-29 21:22 G 28741422.30 28741422.39 28741422.49 0.2624 0.1673 *

Jupiter 73982-04-13 13:12 G 28742532.92 28742533.05 28742533.18 0.0541 0.0272

Saturn 73983-04-30 00:15 G 28742914.40 28742914.51 28742914.63 0.0277 0.0178

Saturn 73983-07-27 14:24 G 28743002.95 28743003.10 28743003.24 0.0277 0.0046

Saturn 73983-10-24 04:34 G 28743091.55 28743091.69 28743091.84 0.0278 0.0089

Saturn 73984-01-20 19:12 G 28743180.22 28743180.30 28743180.39 0.0278 0.0228

Venus 73985-04-04 13:27 G 28743619.95 28743620.06 28743620.18 0.3665 0.0864

Mars 73986-09-08 19:41 G 28744142.20 28744142.32 28744142.43 0.1786 0.0624

Jupiter 73987-11-28 15:51 G 28744588.01 28744588.16 28744588.31 0.0488 0.0069

Earth 73989-10-02 03:51 G 28745261.55 28745261.66 28745261.77 0.2702 0.1350

Moon 73989-10-02 04:19 G 28745261.58 28745261.68 28745261.79 0.2696 0.1463 *

Venus 73990-10-19 09:07 G 28745643.81 28745643.88 28745643.96 0.3666 0.2757

Moon 73992-03-31 18:43 G 28746173.15 28746173.28 28746173.41 0.2623 0.0286

Earth 73992-03-31 18:58 G 28746173.16 28746173.29 28746173.42 0.2630 0.0314 *

Neptune 73993-06-12 17:03 G 28746611.20 28746611.21 28746611.27 0.0088 0.0086

Neptune 73993-09-08 19:12 G 28746699.25 28746699.30 28746699.39 0.0088 0.0078

Neptune 73993-12-05 21:36 G 28746787.31 28746787.40 28746787.50 0.0088 0.0069

Jupiter 73994-01-30 13:27 G 28746842.91 28746843.06 28746843.21 0.0540 0.0044

Neptune 73994-03-03 23:31 G 28746875.37 28746875.48 28746875.60 0.0088 0.0061

Neptune 73994-05-31 01:41 G 28746963.45 28746963.57 28746963.69 0.0088 0.0053

Neptune 73994-08-27 03:36 G 28747051.52 28747051.65 28747051.79 0.0088 0.0045

Neptune 73994-11-23 05:31 G 28747139.60 28747139.73 28747139.88 0.0088 0.0037

Neptune 73995-02-19 07:41 G 28747227.68 28747227.82 28747227.98 0.0088 0.0029

Neptune 73995-05-18 09:51 G 28747315.76 28747315.91 28747316.07 0.0088 0.0020

Neptune 73995-08-14 12:00 G 28747403.84 28747404.00 28747404.16 0.0088 0.0012

Neptune 73995-11-10 14:10 G 28747491.93 28747492.09 28747492.25 0.0088 0.0004

Mars 73996-01-30 03:51 G 28747572.58 28747572.66 28747572.74 0.1779 0.1369

Neptune 73996-02-06 16:19 G 28747580.02 28747580.18 28747580.34 0.0088 0.0005

Neptune 73996-05-04 18:15 G 28747668.11 28747668.26 28747668.42 0.0088 0.0014

Neptune 73996-07-31 20:24 G 28747756.20 28747756.35 28747756.51 0.0088 0.0022

Neptune 73996-10-27 22:19 G 28747844.29 28747844.43 28747844.59 0.0088 0.0031

Mars 73996-12-14 12:15 G 28747891.88 28747892.01 28747892.13 0.1728 0.0901

Neptune 73997-01-24 00:43 G 28747932.39 28747932.53 28747932.68 0.0088 0.0039

Neptune 73997-04-22 02:39 G 28748020.49 28748020.61 28748020.76 0.0088 0.0048

Saturn 73997-06-11 23:46 G 28748071.48 28748071.49 28748071.52 0.0283 0.0280

Neptune 73997-07-19 05:03 G 28748108.59 28748108.71 28748108.84 0.0088 0.0056

Saturn 73997-09-08 17:17 G 28748160.08 28748160.22 28748160.37 0.0282 0.0123

Uranus 73997-10-12 23:17 G 28748194.40 28748194.47 28748194.55 0.0143 0.0123

Neptune 73997-10-15 06:58 G 28748196.70 28748196.79 28748196.91 0.0088 0.0065

Saturn 73997-12-06 10:19 G 28748248.77 28748248.93 28748249.09 0.0282 0.0029

Uranus 73998-01-09 04:19 G 28748282.57 28748282.68 28748282.80 0.0143 0.0099

Neptune 73998-01-11 09:36 G 28748284.81 28748284.90 28748284.99 0.0088 0.0073

Saturn 73998-03-05 02:53 G 28748337.50 28748337.62 28748337.74 0.0282 0.0177

Uranus 73998-04-07 09:22 G 28748370.77 28748370.89 28748371.03 0.0143 0.0075

Neptune 73998-04-09 11:31 G 28748372.94 28748372.98 28748373.05 0.0088 0.0082

Uranus 73998-07-04 14:39 G 28748458.97 28748459.11 28748459.26 0.0143 0.0050

Uranus 73998-09-30 19:55 G 28748547.18 28748547.33 28748547.49 0.0143 0.0025

Uranus 73998-12-28 01:12 G 28748635.40 28748635.55 28748635.71 0.0143 0.0003

Uranus 73999-03-26 06:29 G 28748723.62 28748723.77 28748723.93 0.0143 0.0026

Uranus 73999-06-22 11:46 G 28748811.85 28748811.99 28748812.15 0.0143 0.0051

Jupiter 73999-09-16 18:29 G 28748898.14 28748898.27 28748898.40 0.0489 0.0233

Uranus 73999-09-18 17:03 G 28748900.09 28748900.21 28748900.36 0.0143 0.0077

Jupiter 73999-12-15 06:00 G 28748987.68 28748987.75 28748987.83 0.0487 0.0422

Uranus 73999-12-15 22:34 G 28748988.34 28748988.44 28748988.56 0.0143 0.0102

Uranus 74000-03-13 04:05 G 28749076.61 28749076.67 28749076.75 0.0143 0.0128

75TH MILLENNIUM CE

This is a list of transits of Mercury in the 75th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	**74002-10-05 01:12**	**G**	**28750012.54**	**28750012.55**	**28750012.56**	**0.2694**	**0.2670**	
Moon	**74005-04-03 16:34**	**G**	**28750924.07**	**28750924.19**	**28750924.31**	**0.2626**	**0.0984**	
Earth	**74005-04-03 17:17**	**G**	**28750924.10**	**28750924.22**	**28750924.34**	**0.2631**	**0.1142**	*****
Jupiter	**74005-11-18 13:27**	**G**	**28751152.92**	**28751153.06**	**28751153.20**	**0.0540**	**0.0188**	
Mars	**74006-05-06 14:53**	**G**	**28751321.97**	**28751322.12**	**28751322.27**	**0.1735**	**0.0055**	
Mars	**74007-05-28 03:36**	**G**	**28751708.55**	**28751708.65**	**28751708.75**	**0.1799**	**0.1051**	
Earth	**74009-09-27 13:27**	**G**	**28752561.95**	**28752562.06**	**28752562.17**	**0.2703**	**0.1321**	
Moon	**74009-09-27 14:24**	**G**	**28752561.99**	**28752562.10**	**28752562.22**	**0.2706**	**0.1164**	*****
Jupiter	**74011-07-05 21:22**	**G**	**28753208.31**	**28753208.39**	**28753208.48**	**0.0489**	**0.0390**	
Jupiter	**74011-10-03 08:39**	**G**	**28753297.74**	**28753297.86**	**28753297.99**	**0.0487**	**0.0259**	
Saturn	**74012-09-16 03:22**	**G**	**28753646.55**	**28753646.64**	**28753646.75**	**0.0277**	**0.0202**	
Saturn	**74012-12-13 17:17**	**G**	**28753735.08**	**28753735.22**	**28753735.37**	**0.0277**	**0.0071**	
Saturn	**74013-03-12 07:41**	**G**	**28753823.67**	**28753823.82**	**28753823.96**	**0.0277**	**0.0064**	
Saturn	**74013-06-08 22:19**	**G**	**28753912.32**	**28753912.43**	**28753912.53**	**0.0278**	**0.0201**	
Mars	**74015-09-26 17:03**	**G**	**28754752.09**	**28754752.21**	**28754752.34**	**0.1741**	**0.1051**	

Mars 74016-10-17 11:31 G 28755138.86 28755138.98 28755139.11 0.1793 0.0255

Jupiter 74017-09-06 12:58 G 28755462.95 28755463.04 28755463.13 0.0539 0.0428

Jupiter 74017-12-05 09:51 G 28755552.85 28755552.91 28755552.98 0.0542 0.0481

Moon 74018-04-06 14:53 G 28755675.10 28755675.12 28755675.13 0.2632 0.2606

Earth 74022-09-30 11:31 G 28757312.85 28757312.98 28757313.10 0.2702 0.0179

Moon 74022-09-30 12:29 G 28757312.89 28757313.02 28757313.14 0.2701 0.0282 *

Jupiter 74023-07-22 11:31 G 28757607.84 28757607.98 28757608.13 0.0487 0.0100

Venus 74023-09-15 00:58 G 28757662.42 28757662.54 28757662.66 0.3706 0.0952

Earth 74025-03-30 02:10 G 28758224.48 28758224.59 28758224.70 0.2629 0.1447

Moon 74025-03-30 02:39 G 28758224.50 28758224.61 28758224.72 0.2624 0.1386 *

Mars 74026-03-09 19:41 G 28758569.20 28758569.32 28758569.44 0.1786 0.0525

Saturn 74027-01-26 18:00 G 28758892.12 28758892.25 28758892.38 0.0282 0.0166

Saturn 74027-04-25 11:03 G 28758980.81 28758980.96 28758981.12 0.0281 0.0016

Saturn 74027-07-23 03:36 G 28759069.52 28759069.65 28759069.80 0.0281 0.0137

Saturn 74027-10-19 19:55 G 28759158.33 28759158.33 28759158.34 0.0281 0.0280

Venus 74029-03-30 22:05 G 28759686.35 28759686.42 28759686.48 0.3705 0.3110

Jupiter 74029-09-23 10:48 G 28759862.83 28759862.95 28759863.09 0.0541 0.0268

Jupiter 74035-05-10 14:24 G 28761917.95 28761918.10 28761918.24 0.0488 0.0064

Mars 74035-07-31 03:51 G 28761999.58 28761999.66 28761999.75 0.1779 0.1275

Earth 74035-10-03 09:07 G 28762063.78 28762063.88 28762063.98 0.2702 0.1623

Moon 74035-10-03 09:36 G 28762063.80 28762063.90 28762064.00 0.2695 0.1630 *

Venus 74036-04-25 16:34 G 28762269.13 28762269.19 28762269.26 0.3664 0.3036

Mars 74036-06-14 12:29 G 28762318.90 28762319.02 28762319.14 0.1728 0.1015

Moon 74038-04-02 00:00 G 28762975.37 28762975.50 28762975.63 0.2623 0.0109

Earth 74038-04-02 00:15 G 28762975.38 28762975.51 28762975.64 0.2630 0.0062 *

Uranus 74040-10-20 22:05 G 28763908.35 28763908.42 28763908.51 0.0135 0.0114

Uranus 74041-01-17 03:07 G 28763996.51 28763996.63 28763996.74 0.0135 0.0092

Uranus 74041-04-15 07:41 G 28764084.69 28764084.82 28764084.96 0.0135 0.0071

Jupiter 74041-07-12 12:00 G 28764172.85 28764173.00 28764173.15 0.0541 0.0055

Uranus 74041-07-12 12:29 G 28764172.87 28764173.02 28764173.17 0.0135 0.0049 *

Uranus 74041-10-08 17:03 G 28764261.06 28764261.21 28764261.37 0.0135 0.0028

Venus 74041-11-09 12:00 G 28764292.88 28764293.00 28764293.12 0.3666 0.0459

Uranus 74042-01-04 21:36 G 28764349.25 28764349.40 28764349.56 0.0135 0.0008

Saturn 74042-02-03 03:36 G 28764378.60 28764378.65 28764378.72 0.0277 0.0250

Uranus 74042-04-03 02:24 G 28764437.44 28764437.60 28764437.75 0.0135 0.0015

Saturn 74042-05-02 17:31 G 28764467.10 28764467.23 28764467.36 0.0277 0.0120

Uranus 74042-06-30 06:43 G 28764525.64 28764525.78 28764525.94 0.0135 0.0035

Saturn 74042-07-30 07:41 G 28764555.67 28764555.82 28764555.97 0.0278 0.0013

Earth 74042-09-25 20:39 G 28764613.32 28764613.36 28764613.39 0.2704 0.2581

Moon 74042-09-25 21:07 G 28764613.33 28764613.38 28764613.43 0.2709 0.2451 *

Uranus 74042-09-26 11:17 G 28764613.83 28764613.97 28764614.11 0.0135 0.0056

Saturn 74042-10-26 22:05 G 28764644.29 28764644.42 28764644.55 0.0278 0.0149

Uranus 74042-12-23 15:51 G 28764702.03 28764702.16 28764702.29 0.0135 0.0077

Uranus 74043-03-21 20:10 G 28764790.24 28764790.34 28764790.45 0.0135 0.0097

Uranus 74043-06-18 00:43 G 28764878.46 28764878.53 28764878.60 0.0136 0.0118

Mars 74045-11-04 15:22 G 28765748.99 28765749.14 28765749.29 0.1735 0.0068

Mars 74046-11-26 03:36 G 28766135.56 28766135.65 28766135.75 0.1799 0.1150

Jupiter 74047-02-26 17:17 G 28766228.09 28766228.22 28766228.35 0.0488 0.0221

Jupiter 74047-05-27 04:48 G 28766317.64 28766317.70 28766317.77 0.0487 0.0434

Moon 74051-04-04 21:51 G 28767726.30 28767726.41 28767726.52 0.2628 0.1392

Earth 74051-04-04 22:48 G 28767726.34 28767726.45 28767726.56 0.2631 0.1424 *

Jupiter 74053-04-30 12:00 G 28768482.86 28768483.00 28768483.15 0.0540 0.0175

Mars 74055-03-27 17:46 G 28769179.11 28769179.24 28769179.37 0.1741 0.0911

Earth 74055-09-28 18:58 G 28769364.17 28769364.29 28769364.40 0.2703 0.1037

Moon 74055-09-28 19:55 G 28769364.21 28769364.33 28769364.45 0.2706 0.0995 *

Mars 74056-04-17 11:31 G 28769565.86 28769565.98 28769566.10 0.1792 0.0343

Saturn 74056-06-14 18:00 G 28769624.15 28769624.25 28769624.35 0.0283 0.0216

Saturn 74056-09-11 11:17 G 28769712.81 28769712.97 28769713.13 0.0282 0.0061

Saturn 74056-12-09 04:05 G 28769801.52 28769801.67 28769801.82 0.0282 0.0090

Saturn 74057-03-07 20:24 G 28769890.27 28769890.35 28769890.44 0.0282 0.0236

Earth 74058-03-28 09:51 G 28770275.88 28770275.91 28770275.93 0.2629 0.2550

Moon 74058-03-28 10:48 G 28770275.91 28770275.95 28770275.98 0.2626 0.2514 *

Jupiter 74058-12-15 19:41 G 28770538.23 28770538.32 28770538.41 0.0489 0.0386

Jupiter 74059-03-15 06:58 G 28770627.67 28770627.79 28770627.92 0.0487 0.0264

Jupiter 74065-02-16 12:00 G 28772792.90 28772793.00 28772793.10 0.0539 0.0409

Jupiter 74065-05-17 08:53 G 28772882.81 28772882.87 28772882.93 0.0541 0.0496

Mars 74065-09-07 19:27 G 28772996.20 28772996.31 28772996.43 0.1786 0.0443

Earth 74068-09-30 16:48 G 28774115.08 28774115.20 28774115.33 0.2702 0.0462

Moon 74068-09-30 17:46 G 28774115.12 28774115.24 28774115.36 0.2699 0.0580 *

Jupiter 74071-01-01 09:36 G 28774937.76 28774937.90 28774938.05 0.0488 0.0102

Earth 74071-03-31 07:41 G 28775026.70 28775026.82 28775026.93 0.2629 0.1186

Moon 74071-03-31 07:55 G 28775026.71 28775026.83 28775026.95 0.2623 0.1126 *

Saturn 74071-06-23 06:58 G 28775110.77 28775110.79 28775110.82 0.0276 0.0271

Saturn 74071-09-19 20:53 G 28775199.24 28775199.37 28775199.50 0.0277 0.0143

Saturn 74071-12-17 10:48 G 28775287.81 28775287.95 28775288.10 0.0277 0.0014

Saturn 74072-03-15 01:12 G 28775376.42 28775376.55 28775376.69 0.0277 0.0125

Saturn 74072-06-11 15:51 G 28775465.12 28775465.16 28775465.21 0.0278 0.0264

Venus 74074-10-06 02:39 G 28776311.59 28776311.61 28776311.63 0.3707 0.3645

Mars 74075-01-29 04:05 G 28776426.58 28776426.67 28776426.76 0.1779 0.1178

Neptune 74075-06-27 17:46 G 28776576.19 28776576.24 28776576.31 0.0090 0.0082

Neptune 74075-09-23 19:55 G 28776664.25 28776664.33 28776664.44 0.0090 0.0073

Mars 74075-12-14 12:58 G 28776745.93 28776746.04 28776746.16 0.1728 0.1137

Neptune 74075-12-20 22:19 G 28776752.33 28776752.43 28776752.55 0.0090 0.0064

Neptune 74076-03-18 00:29 G 28776840.41 28776840.52 28776840.66 0.0090 0.0055

Neptune 74076-06-14 02:53 G 28776928.49 28776928.62 28776928.76 0.0090 0.0045

Neptune 74076-09-10 05:03 G 28777016.57 28777016.71 28777016.86 0.0090 0.0037

Neptune 74076-12-07 07:12 G 28777104.66 28777104.80 28777104.96 0.0090 0.0028

Jupiter 74077-03-05 08:39 G 28777192.74 28777192.86 28777193.00 0.0541 0.0264

Neptune 74077-03-05 09:36 G 28777192.75 28777192.90 28777193.05 0.0090 0.0019 *

Neptune 74077-06-01 11:46 G 28777280.83 28777280.99 28777281.15 0.0090 0.0010

Neptune 74077-08-28 13:55 G 28777368.92 28777369.08 28777369.24 0.0090 0.0001

Neptune 74077-11-24 16:05 G 28777457.01 28777457.17 28777457.33 0.0090 0.0008

Neptune 74078-02-20 18:15 G 28777545.11 28777545.26 28777545.41 0.0090 0.0017

Neptune 74078-05-19 20:10 G 28777633.20 28777633.34 28777633.50 0.0090 0.0026

Neptune 74078-08-15 22:19 G 28777721.30 28777721.43 28777721.58 0.0090 0.0034

Neptune 74078-11-12 00:29 G 28777809.39 28777809.52 28777809.66 0.0090 0.0043

Neptune 74079-02-08 02:24 G 28777897.49 28777897.60 28777897.74 0.0090 0.0052

Neptune 74079-05-07 04:48 G 28777985.59 28777985.70 28777985.82 0.0090 0.0060

Neptune 74079-08-03 06:43 G 28778073.69 28778073.78 28778073.89 0.0090 0.0069

Neptune 74079-10-30 08:53 G 28778161.80 28778161.87 28778161.95 0.0089 0.0077

Neptune 74080-01-26 10:48 G 28778249.92 28778249.95 28778250.00 0.0089 0.0085

Venus 74080-04-21 00:00 G 28778335.37 28778335.50 28778335.62 0.3706 0.0576

Uranus 74081-08-06 01:12 G 28778807.53 28778807.55 28778807.59 0.0143 0.0140

Earth 74081-10-03 14:24 G 28778866.02 28778866.10 28778866.19 0.2702 0.1898

Moon 74081-10-03 14:53 G 28778866.04 28778866.12 28778866.21 0.2696 0.1960 *

Uranus 74081-11-02 06:15 G 28778895.68 28778895.76 28778895.86 0.0143 0.0117

Uranus 74082-01-29 11:31 G 28778983.87 28778983.98 28778984.10 0.0143 0.0092

Uranus 74082-04-27 16:48 G 28779072.06 28779072.20 28779072.34 0.0143 0.0067

Uranus 74082-07-24 21:51 G 28779160.27 28779160.41 28779160.56 0.0143 0.0043

Jupiter 74082-10-20 12:43 G 28779247.88 28779248.03 28779248.18 0.0488 0.0056

Uranus 74082-10-21 03:07 G 28779248.48 28779248.63 28779248.79 0.0143 0.0018

Uranus 74083-01-17 08:24 G 28779336.70 28779336.85 28779337.01 0.0143 0.0009

Uranus 74083-04-15 13:41 G 28779424.92 28779425.07 28779425.23 0.0143 0.0033

Uranus 74083-07-12 18:58 G 28779513.15 28779513.29 28779513.44 0.0143 0.0059

Uranus 74083-10-09 00:29 G 28779601.40 28779601.52 28779601.65 0.0143 0.0084

Uranus 74084-01-05 05:46 G 28779689.65 28779689.74 28779689.85 0.0143 0.0110

Moon 74084-04-02 05:31 G 28779777.59 28779777.73 28779777.86 0.2624 0.0237

Earth 74084-04-02 05:46 G 28779777.61 28779777.74 28779777.87 0.2630 0.0241 *

Uranus 74084-04-02 11:17 G 28779777.93 28779777.97 28779778.03 0.0143 0.0136

Mars 74085-05-05 15:51 G 28780176.01 28780176.16 28780176.31 0.1735 0.0197

Saturn 74085-11-01 18:58 G 28780356.23 28780356.29 28780356.37 0.0282 0.0254

Saturn 74086-01-29 12:29 G 28780444.87 28780445.02 28780445.17 0.0282 0.0099

Saturn 74086-04-28 05:31 G 28780533.57 28780533.73 28780533.89 0.0282 0.0053

Mars 74086-05-27 03:51 G 28780562.57 28780562.66 28780562.75 0.1799 0.1249

Saturn 74086-07-25 21:51 G 28780622.31 28780622.41 28780622.53 0.0281 0.0200

Earth 74088-09-26 01:55 G 28781415.52 28781415.58 28781415.65 0.2704 0.2288

Moon 74088-09-26 02:39 G 28781415.55 28781415.61 28781415.68 0.2709 0.2295 *

Jupiter 74088-12-22 09:22 G 28781502.74 28781502.89 28781503.04 0.0541 0.0046

Venus 74092-11-30 14:53 G 28782942.02 28782942.12 28782942.23 0.3665 0.1771

Jupiter 74094-08-08 15:36 G 28783558.01 28783558.15 28783558.28 0.0488 0.0217

Mars 74094-09-25 18:15 G 28783606.12 28783606.26 28783606.39 0.1741 0.0800

Jupiter 74094-11-06 03:07 G 28783647.56 28783647.63 28783647.69 0.0487 0.0437

Mars 74095-10-17 11:31 G 28783992.86 28783992.98 28783993.10 0.1792 0.0436

Moon 74097-04-05 03:07 G 28784528.53 28784528.63 28784528.74 0.2629 0.1550

Earth 74097-04-05 04:19 G 28784528.58 28784528.68 28784528.78 0.2631 0.1708 *

Venus 74098-06-16 10:19 G 28784965.83 28784965.93 28784966.04 0.3666 0.1783

Jupiter 74100-10-11 10:19 G 28785812.78 28785812.93 28785813.07 0.0540 0.0173

Saturn 74101-02-06 21:22 G 28785931.29 28785931.39 28785931.50 0.0277 0.0189

Saturn 74101-05-06 11:17 G 28786019.83 28786019.97 28786020.12 0.0277 0.0058

Saturn 74101-08-03 01:27 G 28786108.42 28786108.56 28786108.71 0.0278 0.0076

Earth 74101-09-30 00:15 G 28786166.39 28786166.51 28786166.63 0.2703 0.0753

Moon 74101-09-30 01:12 G 28786166.43 28786166.55 28786166.68 0.2705 0.0575 *

Saturn 74101-10-30 16:05 G 28786197.07 28786197.17 28786197.27 0.0278 0.0213

Earth 74104-03-29 15:07 G 28787078.07 28787078.13 28787078.19 0.2629 0.2290

Moon 74104-03-29 16:05 G 28787078.09 28787078.17 28787078.24 0.2626 0.2131 *

Mars 74105-03-09 19:41 G 28787423.20 28787423.32 28787423.44 0.1786 0.0340

Jupiter 74106-05-28 18:29 G 28787868.18 28787868.27 28787868.37 0.0489 0.0374

Jupiter 74106-08-26 05:46 G 28787957.61 28787957.74 28787957.86 0.0487 0.0274

Pluto 74111-11-10 19:55 G 28789860.26 28789860.33 28789860.41 0.0064 0.0055

Pluto 74112-02-06 20:24 G 28789948.25 28789948.35 28789948.48 0.0064 0.0045

Pluto 74112-05-04 21:22 G 28790036.27 28790036.39 28790036.53 0.0064 0.0034

Jupiter 74112-07-30 10:34 G 28790122.83 28790122.94 28790123.04 0.0539 0.0399

Pluto 74112-07-31 22:19 G 28790124.29 28790124.43 28790124.58 0.0064 0.0023

Pluto 74112-10-27 23:03 G 28790212.31 28790212.46 28790212.62 0.0064 0.0013

Jupiter 74112-10-28 07:27 G 28790212.76 28790212.81 28790212.86 0.0541 0.0507

Pluto 74113-01-24 00:00 G 28790300.34 28790300.50 28790300.66 0.0064 0.0002

Pluto 74113-04-22 00:43 G 28790388.38 28790388.53 28790388.69 0.0064 0.0010

Pluto 74113-07-19 01:27 G 28790476.42 28790476.56 28790476.72 0.0065 0.0020

Pluto 74113-10-15 02:10 G 28790564.47 28790564.59 28790564.74 0.0065 0.0032

Pluto 74114-01-11 03:07 G 28790652.52 28790652.63 28790652.76 0.0065 0.0042

Pluto 74114-04-09 03:51 G 28790740.58 28790740.66 28790740.76 0.0065 0.0053

Pluto 74114-07-06 04:48 G 28790828.69 28790828.70 28790828.72 0.0065 0.0064

Mars 74114-07-31 03:51 G 28790853.57 28790853.66 28790853.76 0.1779 0.1096

Earth 74114-10-02 22:05 G 28790917.30 28790917.42 28790917.55 0.2702 0.0739

Moon 74114-10-02 23:03 G 28790917.34 28790917.46 28790917.58 0.2698 0.0766 *

Mars 74115-06-15 13:41 G 28791172.97 28791173.07 28791173.17 0.1728 0.1259

Saturn 74115-06-19 12:29 G 28791176.88 28791177.02 28791177.16 0.0283 0.0148

Saturn 74115-09-16 05:31 G 28791265.57 28791265.73 28791265.89 0.0282 0.0006

Saturn 74115-12-13 22:19 G 28791354.30 28791354.43 28791354.56 0.0282 0.0154

Moon 74117-04-01 13:12 G 28791828.92 28791829.05 28791829.17 0.2623 0.0951

Earth 74117-04-01 12:58 G 28791828.92 28791829.04 28791829.16 0.2629 0.0913 *

Jupiter 74118-06-14 07:55 G 28792267.68 28792267.83 28792267.98 0.0488 0.0104

Uranus 74124-08-15 00:29 G 28794521.48 28794521.52 28794521.57 0.0135 0.0129

Jupiter 74124-08-16 07:41 G 28794522.69 28794522.82 28794522.95 0.0540 0.0280

Mars 74124-11-04 16:19 G 28794603.03 28794603.18 28794603.33 0.1735 0.0319

Uranus 74124-11-11 05:03 G 28794609.63 28794609.71 28794609.82 0.0135 0.0108

Uranus 74125-02-07 09:51 G 28794697.80 28794697.91 28794698.04 0.0135 0.0086

Uranus 74125-05-06 14:53 G 28794785.98 28794786.12 28794786.26 0.0135 0.0064

Uranus 74125-08-02 19:27 G 28794874.16 28794874.31 28794874.46 0.0135 0.0043

Uranus 74125-10-30 00:00 G 28794962.35 28794962.50 28794962.66 0.0135 0.0022

Mars 74125-11-26 03:36 G 28794989.57 28794989.65 28794989.74 0.1799 0.1331

Uranus 74126-01-26 04:48 G 28795050.54 28795050.70 28795050.85 0.0135 0.0002

Uranus 74126-04-24 09:22 G 28795138.73 28795138.89 28795139.04 0.0135 0.0021

Uranus 74126-07-21 13:55 G 28795226.93 28795227.08 28795227.23 0.0135 0.0041

Uranus 74126-10-17 18:15 G 28795315.13 28795315.26 28795315.40 0.0135 0.0062

Uranus 74127-01-13 22:34 G 28795403.33 28795403.44 28795403.57 0.0135 0.0084

Uranus 74127-04-12 03:07 G 28795491.54 28795491.63 28795491.73 0.0135 0.0104

Uranus 74127-07-09 07:41 G 28795579.76 28795579.82 28795579.88 0.0135 0.0124

Earth 74127-10-05 19:55 G 28795668.25 28795668.33 28795668.40 0.2701 0.2166

Moon 74127-10-05 19:55 G 28795668.26 28795668.33 28795668.41 0.2695 0.2186 *

Jupiter 74130-04-02 10:34 G 28796577.80 28796577.94 28796578.09 0.0488 0.0059

Moon 74130-04-04 10:34 G 28796579.81 28796579.94 28796580.08 0.2625 0.0475

Earth 74130-04-04 11:17 G 28796579.84 28796579.97 28796580.10 0.2630 0.0517 *

Saturn 74130-06-27 00:43 G 28796663.44 28796663.53 28796663.63 0.0276 0.0211

Saturn 74130-09-23 14:39 G 28796751.97 28796752.11 28796752.25 0.0277 0.0081

Saturn 74130-12-21 04:48 G 28796840.55 28796840.70 28796840.85 0.0277 0.0053

Saturn 74131-03-19 19:12 G 28796929.20 28796929.30 28796929.41 0.0278 0.0190

Venus 74131-05-14 01:27 G 28796984.46 28796984.56 28796984.67 0.3707 0.2102

Mars 74134-03-27 18:43 G 28798033.14 28798033.28 28798033.42 0.1741 0.0664

Earth 74134-09-28 07:27 G 28798217.73 28798217.81 28798217.90 0.2703 0.1996

Moon 74134-09-28 08:10 G 28798217.75 28798217.84 28798217.94 0.2708 0.1841 *

Mars 74135-04-18 11:46 G 28798419.87 28798419.99 28798420.11 0.1792 0.0536

Jupiter 74136-06-04 07:12 G 28798832.65 28798832.80 28798832.95 0.0540 0.0041

Venus 74136-11-26 22:48 G 28799008.35 28799008.45 28799008.55 0.3705 0.2042

Jupiter 74142-01-19 13:41 G 28800887.94 28800888.07 28800888.21 0.0488 0.0214

Jupiter 74142-04-19 01:12 G 28800977.49 28800977.55 28800977.62 0.0487 0.0441

Moon 74143-04-07 08:39 G 28801330.77 28801330.86 28801330.95 0.2629 0.1911

Earth 74143-04-07 09:36 G 28801330.82 28801330.90 28801330.99 0.2631 0.1993 *

Mars 74143-08-17 20:39 G 28801463.32 28801463.36 28801463.39 0.1748 0.1692

Mars 74144-09-07 19:41 G 28801850.20 28801850.32 28801850.44 0.1786 0.0249

Saturn 74144-11-05 14:10 G 28801908.97 28801909.09 28801909.22 0.0282 0.0181

Saturn 74145-02-02 07:27 G 28801997.65 28801997.81 28801997.97 0.0282 0.0028

Saturn 74145-05-02 00:15 G 28802086.37 28802086.51 28802086.65 0.0281 0.0122

Saturn 74145-07-29 16:34 G 28802175.15 28802175.19 28802175.24 0.0281 0.0267

Earth 74147-10-01 05:46 G 28802968.61 28802968.74 28802968.86 0.2703 0.0475

Moon 74147-10-01 06:43 G 28802968.65 28802968.78 28802968.90 0.2703 0.0447 *

Jupiter 74148-03-23 07:41 G 28803142.68 28803142.82 28803142.96 0.0540 0.0185

Venus 74149-07-08 13:27 G 28803614.94 28803615.06 28803615.17 0.3665 0.0507

Earth 74150-03-30 20:24 G 28803880.27 28803880.35 28803880.43 0.2629 0.2030

Moon 74150-03-30 21:07 G 28803880.30 28803880.38 28803880.46 0.2625 0.2027 *

Jupiter 74153-11-07 16:34 G 28805198.10 28805198.19 28805198.29 0.0489 0.0373

Mars 74154-01-29 04:05 G 28805280.57 28805280.67 28805280.77 0.1779 0.1002

Jupiter 74154-02-05 03:51 G 28805287.54 28805287.66 28805287.78 0.0487 0.0276

Mars 74154-12-14 13:55 G 28805599.99 28805600.08 28805600.17 0.1728 0.1372

Venus 74155-01-22 08:53 G 28805638.80 28805638.87 28805638.93 0.3666 0.3085

Neptune 74158-03-10 16:48 G 28806782.14 28806782.20 28806782.27 0.0088 0.0080

Neptune 74158-06-06 18:43 G 28806870.20 28806870.28 28806870.38 0.0088 0.0072

Neptune 74158-09-02 20:39 G 28806958.27 28806958.36 28806958.48 0.0088 0.0064

Neptune 74158-11-29 22:48 G 28807046.34 28807046.45 28807046.58 0.0088 0.0056

Neptune 74159-02-26 00:43 G 28807134.41 28807134.53 28807134.67 0.0088 0.0048

Neptune 74159-05-25 02:53 G 28807222.49 28807222.62 28807222.77 0.0088 0.0040

Neptune 74159-08-21 05:03 G 28807310.57 28807310.71 28807310.86 0.0088 0.0031

Saturn 74159-11-14 01:41 G 28807395.52 28807395.57 28807395.63 0.0277 0.0252

Neptune 74159-11-17 07:12 G 28807398.65 28807398.80 28807398.95 0.0088 0.0023

Jupiter 74160-01-10 08:10 G 28807452.74 28807452.84 28807452.94 0.0540 0.0405

Saturn 74160-02-10 15:22 G 28807484.01 28807484.14 28807484.28 0.0277 0.0124

Neptune 74160-02-13 09:07 G 28807486.73 28807486.88 28807487.04 0.0088 0.0015

Jupiter 74160-04-09 05:17 G 28807542.67 28807542.72 28807542.77 0.0542 0.0504

Saturn 74160-05-09 05:31 G 28807572.58 28807572.73 28807572.88 0.0277 0.0008

Neptune 74160-05-11 11:17 G 28807574.81 28807574.97 28807575.13 0.0088 0.0006

Saturn 74160-08-05 19:41 G 28807661.20 28807661.32 28807661.46 0.0278 0.0144

Neptune 74160-08-07 13:27 G 28807662.90 28807663.06 28807663.22 0.0088 0.0002

Earth 74160-10-03 03:36 G 28807719.53 28807719.65 28807719.76 0.2702 0.1008

Moon 74160-10-03 04:19 G 28807719.57 28807719.68 28807719.79 0.2698 0.1151 *

Neptune 74160-11-03 15:22 G 28807750.99 28807751.14 28807751.30 0.0088 0.0011

Neptune 74161-01-30 17:31 G 28807839.08 28807839.23 28807839.39 0.0088 0.0019

Neptune 74161-04-28 19:41 G 28807927.17 28807927.32 28807927.47 0.0088 0.0027

Neptune 74161-07-25 21:51 G 28808015.27 28808015.41 28808015.56 0.0088 0.0036

Neptune 74161-10-22 00:00 G 28808103.36 28808103.50 28808103.64 0.0088 0.0044

Neptune 74162-01-18 01:55 G 28808191.46 28808191.58 28808191.72 0.0088 0.0053

Neptune 74162-04-16 04:05 G 28808279.57 28808279.67 28808279.80 0.0088 0.0062

Neptune 74162-07-13 06:29 G 28808367.68 28808367.77 28808367.87 0.0088 0.0070

Neptune 74162-10-09 08:24 G 28808455.80 28808455.85 28808455.94 0.0088 0.0079

Neptune 74163-01-05 10:48 G 28808543.95 28808543.95 28808543.97 0.0088 0.0087

Moon 74163-04-02 18:29 G 28808631.14 28808631.27 28808631.40 0.2623 0.0568

Earth 74163-04-02 18:29 G 28808631.14 28808631.27 28808631.39 0.2630 0.0645 *

Mars 74163-06-21 12:29 G 28808711.00 28808711.02 28808711.05 0.1772 0.1722

Mars 74164-05-05 16:48 G 28809030.06 28809030.20 28809030.35 0.1735 0.0437

Mars 74165-05-27 03:51 G 28809416.59 28809416.66 28809416.74 0.1799 0.1435

Uranus 74165-08-27 08:24 G 28809508.80 28809508.85 28809508.91 0.0143 0.0134

Uranus 74165-11-23 13:27 G 28809596.97 28809597.06 28809597.16 0.0143 0.0109

Jupiter 74165-11-24 06:29 G 28809597.63 28809597.77 28809597.92 0.0487 0.0114

Uranus 74166-02-19 18:29 G 28809685.15 28809685.27 28809685.40 0.0143 0.0085

Uranus 74166-05-18 23:46 G 28809773.35 28809773.49 28809773.63 0.0143 0.0060

Uranus 74166-08-15 04:48 G 28809861.56 28809861.70 28809861.86 0.0143 0.0036

Uranus 74166-11-11 10:19 G 28809949.77 28809949.93 28809950.08 0.0143 0.0011

Uranus 74167-02-07 15:36 G 28810037.99 28810038.15 28810038.30 0.0143 0.0015

Uranus 74167-05-06 20:39 G 28810126.22 28810126.36 28810126.52 0.0143 0.0040

Uranus 74167-08-03 02:10 G 28810214.45 28810214.59 28810214.73 0.0143 0.0065

Uranus 74167-10-30 07:27 G 28810302.69 28810302.81 28810302.94 0.0143 0.0091

Uranus 74168-01-26 12:43 G 28810390.95 28810391.03 28810391.13 0.0143 0.0117

Uranus 74168-04-23 18:15 G 28810479.26 28810479.26 28810479.28 0.0143 0.0143

Jupiter 74172-01-27 06:00 G 28811852.62 28811852.75 28811852.88 0.0541 0.0287

Mars 74173-09-25 19:27 G 28812460.16 28812460.31 28812460.45 0.1741 0.0529

Moon 74173-10-06 01:12 G 28812470.49 28812470.55 28812470.60 0.2694 0.2387

Earth 74173-10-06 01:12 G 28812470.50 28812470.55 28812470.60 0.2701 0.2434 *

Saturn 74174-03-25 13:55 G 28812640.99 28812641.08 28812641.17 0.0283 0.0234

Saturn 74174-06-22 07:12 G 28812729.65 28812729.80 28812729.96 0.0282 0.0079

Saturn 74174-09-19 00:15 G 28812818.36 28812818.51 28812818.66 0.0282 0.0073

Mars 74174-10-17 11:31 G 28812846.87 28812846.98 28812847.10 0.1792 0.0621

Saturn 74174-12-16 16:34 G 28812907.10 28812907.19 28812907.30 0.0282 0.0221

Moon 74176-04-04 15:51 G 28813382.04 28813382.16 28813382.29 0.2626 0.0680

Earth 74176-04-04 16:34 G 28813382.07 28813382.19 28813382.32 0.2630 0.0799 *

Jupiter 74177-09-12 08:39 G 28813907.72 28813907.86 28813908.01 0.0488 0.0059

Earth 74180-09-28 12:58 G 28815019.94 28815020.04 28815020.14 0.2703 0.1704

Moon 74180-09-28 13:41 G 28815019.97 28815020.07 28815020.17 0.2708 0.1686 *

Mars 74183-02-15 21:07 G 28815890.32 28815890.38 28815890.45 0.1748 0.1561

Jupiter 74183-11-15 06:15 G 28816162.61 28816162.76 28816162.91 0.0540 0.0059

Mars 74184-03-08 19:41 G 28816277.20 28816277.32 28816277.44 0.1786 0.0159

Venus 74187-12-19 00:29 G 28817657.40 28817657.52 28817657.64 0.3707 0.0564

Saturn 74189-04-02 05:03 G 28818127.70 28818127.71 28818127.73 0.0276 0.0274

Moon 74189-04-07 14:10 G 28818133.01 28818133.09 28818133.16 0.2629 0.2144

Earth 74189-04-07 15:07 G 28818133.07 28818133.13 28818133.20 0.2631 0.2278 *

Saturn 74189-06-29 18:43 G 28818216.16 28818216.28 28818216.41 0.0277 0.0147

Jupiter 74189-07-01 11:31 G 28818217.85 28818217.98 28818218.12 0.0489 0.0218

Saturn 74189-09-26 08:53 G 28818304.72 28818304.87 28818305.02 0.0277 0.0017

Jupiter 74189-09-28 23:03 G 28818307.40 28818307.46 28818307.53 0.0487 0.0438

Saturn 74189-12-23 23:03 G 28818393.33 28818393.46 28818393.60 0.0277 0.0120

Saturn 74190-03-22 13:41 G 28818482.02 28818482.07 28818482.12 0.0278 0.0258

Venus 74193-07-03 21:36 G 28819681.36 28819681.40 28819681.43 0.3705 0.3488

Mars 74193-07-30 04:05 G 28819707.56 28819707.67 28819707.77 0.1779 0.0905

Earth 74193-10-01 11:03 G 28819770.84 28819770.96 28819771.09 0.2703 0.0188

Moon 74193-10-01 12:00 G 28819770.88 28819771.00 28819771.13 0.2701 0.0049 *

Mars 74194-06-14 14:24 G 28820027.03 28820027.10 28820027.18 0.1728 0.1489

Jupiter 74195-09-03 05:17 G 28820472.58 28820472.72 28820472.87 0.0540 0.0191

Earth 74196-03-31 01:55 G 28820682.48 28820682.58 28820682.67 0.2629 0.1763

Moon 74196-03-31 02:24 G 28820682.50 28820682.60 28820682.70 0.2624 0.1631 *

Venus 74200-07-30 16:19 G 28822264.10 28822264.18 28822264.26 0.3664 0.2669

Pluto 74201-01-24 00:00 G 28822441.42 28822441.50 28822441.59 0.0080 0.0067

Jupiter 74201-04-20 14:39 G 28822528.02 28822528.11 28822528.21 0.0489 0.0372

Pluto 74201-04-22 01:41 G 28822529.45 28822529.57 28822529.70 0.0080 0.0046

Jupiter 74201-07-19 01:55 G 28822617.46 28822617.58 28822617.71 0.0487 0.0277

Pluto 74201-07-19 03:36 G 28822617.50 28822617.65 28822617.80 0.0080 0.0025 *

Pluto 74201-10-15 05:17 G 28822705.56 28822705.72 28822705.88 0.0080 0.0004

Pluto 74202-01-11 06:43 G 28822793.63 28822793.78 28822793.94 0.0080 0.0018

Pluto 74202-04-09 08:10 G 28822881.72 28822881.84 28822882.00 0.0080 0.0039

Pluto 74202-07-06 09:51 G 28822969.82 28822969.91 28822970.03 0.0080 0.0060

Mars 74202-12-21 12:29 G 28823137.98 28823138.02 28823138.07 0.1772 0.1633

Saturn 74203-08-13 16:05 G 28823373.12 28823373.17 28823373.23 0.0283 0.0262

Mars 74203-11-05 17:31 G 28823457.08 28823457.23 28823457.37 0.1735 0.0565

Saturn 74203-11-10 09:36 G 28823461.76 28823461.90 28823462.05 0.0282 0.0107

Saturn 74204-02-07 02:39 G 28823550.46 28823550.61 28823550.77 0.0282 0.0046

Saturn 74204-05-05 19:12 G 28823639.19 28823639.30 28823639.42 0.0281 0.0193

Mars 74204-11-26 04:05 G 28823843.60 28823843.67 28823843.73 0.1799 0.1528

Venus 74206-02-13 11:46 G 28824287.87 28824287.99 28824288.10 0.3665 0.0812

Earth 74206-10-05 08:53 G 28824521.76 28824521.87 28824521.98 0.2702 0.1282

Moon 74206-10-05 09:36 G 28824521.79 28824521.90 28824522.01 0.2697 0.1282 *

Jupiter 74207-06-23 05:31 G 28824782.63 28824782.73 28824782.82 0.0539 0.0420

Jupiter 74207-09-21 02:39 G 28824872.55 28824872.61 28824872.67 0.0541 0.0490

Uranus 74208-09-05 07:27 G 28825222.75 28825222.81 28825222.87 0.0135 0.0123

Uranus 74208-12-02 12:00 G 28825310.91 28825311.00 28825311.11 0.0135 0.0102

Uranus 74209-02-28 16:48 G 28825399.08 28825399.20 28825399.34 0.0135 0.0080

Moon 74209-04-03 23:46 G 28825433.36 28825433.49 28825433.62 0.2623 0.0446

Earth 74209-04-03 23:46 G 28825433.36 28825433.49 28825433.62 0.2630 0.0376 *

Uranus 74209-05-27 21:36 G 28825487.26 28825487.40 28825487.55 0.0135 0.0059

Uranus 74209-08-24 02:24 G 28825575.45 28825575.60 28825575.75 0.0135 0.0037

Uranus 74209-11-20 06:58 G 28825663.64 28825663.79 28825663.95 0.0135 0.0016

Uranus 74210-02-16 11:31 G 28825751.83 28825751.98 28825752.14 0.0135 0.0007

Uranus 74210-05-15 16:19 G 28825840.02 28825840.18 28825840.33 0.0135 0.0027

Uranus 74210-08-11 20:39 G 28825928.22 28825928.36 28825928.51 0.0135 0.0048

Uranus 74210-11-08 01:12 G 28826016.42 28826016.55 28826016.69 0.0135 0.0068

Uranus 74211-02-04 05:46 G 28826104.62 28826104.74 28826104.85 0.0135 0.0089

Uranus 74211-05-03 09:51 G 28826192.83 28826192.91 28826193.01 0.0135 0.0110

Uranus 74211-07-30 14:24 G 28826281.07 28826281.10 28826281.15 0.0135 0.0130

Mars 74213-03-27 19:41 G 28826887.17 28826887.32 28826887.47 0.1741 0.0417

Jupiter 74213-05-07 04:34 G 28826927.55 28826927.69 28826927.84 0.0487 0.0114

Mars 74214-04-18 11:46 G 28827273.88 28827273.99 28827274.10 0.1792 0.0716

Saturn 74218-11-17 19:55 G 28828948.22 28828948.33 28828948.44 0.0277 0.0187

Saturn 74219-02-14 09:51 G 28829036.76 28829036.91 28829037.05 0.0277 0.0057

Saturn 74219-05-14 00:00 G 28829125.35 28829125.50 28829125.64 0.0277 0.0077

Jupiter 74219-07-10 03:36 G 28829182.52 28829182.65 28829182.78 0.0541 0.0278

Saturn 74219-08-10 14:24 G 28829214.01 28829214.10 28829214.20 0.0278 0.0213

Earth 74219-10-08 06:29 G 28829272.76 28829272.77 28829272.77 0.2701 0.2698

Moon 74222-04-06 21:07 G 28830184.26 28830184.38 28830184.50 0.2626 0.1042

Earth 74222-04-06 22:05 G 28830184.30 28830184.42 28830184.54 0.2630 0.1071 *

Mars 74222-08-17 21:51 G 28830317.32 28830317.41 28830317.49 0.1748 0.1431

Mars 74223-09-08 19:41 G 28830704.20 28830704.32 28830704.45 0.1786 0.0075

Jupiter 74225-02-23 07:27 G 28831237.66 28831237.81 28831237.96 0.0488 0.0047

Earth 74226-09-30 18:15 G 28831822.16 28831822.26 28831822.37 0.2703 0.1419

Moon 74226-09-30 19:12 G 28831822.19 28831822.30 28831822.41 0.2707 0.1287 *

Jupiter 74231-04-28 04:19 G 28833492.53 28833492.68 28833492.83 0.0540 0.0061

Mars 74233-01-29 03:51 G 28834134.56 28834134.66 28834134.77 0.1779 0.0825

Saturn 74233-03-29 09:22 G 28834193.76 28834193.89 28834194.02 0.0282 0.0159

Saturn 74233-06-26 02:24 G 28834282.44 28834282.60 28834282.76 0.0282 0.0009

Saturn 74233-09-22 19:12 G 28834371.17 28834371.30 28834371.44 0.0282 0.0144

Mars 74233-12-14 15:07 G 28834454.08 28834454.13 28834454.18 0.1728 0.1616

Moon 74235-04-09 19:41 G 28834935.27 28834935.32 28834935.36 0.2631 0.2448

Earth 74235-04-09 20:39 G 28834935.34 28834935.36 28834935.39 0.2631 0.2569 *

Jupiter 74236-12-12 09:36 G 28835547.77 28835547.90 28835548.04 0.0489 0.0218

Jupiter 74237-03-11 21:07 G 28835637.32 28835637.38 28835637.45 0.0487 0.0438

Venus 74239-01-10 01:55 G 28836306.53 28836306.58 28836306.64 0.3708 0.3292

Earth 74239-10-03 16:19 G 28836573.06 28836573.18 28836573.31 0.2703 0.0136

Moon 74239-10-03 17:31 G 28836573.10 28836573.23 28836573.35 0.2701 0.0141 *

Neptune 74239-12-28 14:53 G 28836659.08 28836659.12 28836659.17 0.0090 0.0085

Neptune 74240-03-25 17:17 G 28836747.14 28836747.22 28836747.30 0.0090 0.0076

Neptune 74240-06-21 19:27 G 28836835.21 28836835.31 28836835.42 0.0090 0.0067

Neptune 74240-09-17 21:36 G 28836923.29 28836923.40 28836923.53 0.0090 0.0058

Neptune 74240-12-15 00:00 G 28837011.37 28837011.50 28837011.64 0.0090 0.0049

Neptune 74241-03-13 02:10 G 28837099.45 28837099.59 28837099.74 0.0090 0.0040

Neptune 74241-06-09 04:34 G 28837187.54 28837187.69 28837187.84 0.0090 0.0031

Neptune 74241-09-05 06:43 G 28837275.63 28837275.78 28837275.93 0.0090 0.0022

Neptune 74241-12-02 08:53 G 28837363.72 28837363.87 28837364.03 0.0090 0.0013

Neptune 74242-02-28 11:03 G 28837451.81 28837451.96 28837452.12 0.0090 0.0004

Earth 74242-04-02 07:12 G 28837484.70 28837484.80 28837484.91 0.2629 0.1499

Moon 74242-04-02 07:41 G 28837484.72 28837484.82 28837484.93 0.2623 0.1514 *

Neptune 74242-05-27 13:12 G 28837539.90 28837540.05 28837540.21 0.0090 0.0005

Mars 74242-06-21 12:29 G 28837564.97 28837565.02 28837565.08 0.1773 0.1541

Neptune 74242-08-23 15:22 G 28837627.99 28837628.14 28837628.30 0.0090 0.0014

Neptune 74242-11-19 17:31 G 28837716.08 28837716.23 28837716.39 0.0090 0.0022

Jupiter 74243-02-14 04:19 G 28837802.54 28837802.68 28837802.83 0.0539 0.0172

Neptune 74243-02-15 19:27 G 28837804.18 28837804.31 28837804.47 0.0090 0.0032

Mars 74243-05-06 18:00 G 28837884.11 28837884.25 28837884.39 0.1735 0.0684

Neptune 74243-05-14 21:51 G 28837892.27 28837892.41 28837892.55 0.0090 0.0040

Neptune 74243-08-10 23:46 G 28837980.37 28837980.49 28837980.63 0.0090 0.0049

Neptune 74243-11-07 02:10 G 28838068.47 28838068.59 28838068.71 0.0090 0.0057

Neptune 74244-02-03 04:05 G 28838156.57 28838156.67 28838156.78 0.0089 0.0066

Neptune 74244-05-01 06:00 G 28838244.68 28838244.75 28838244.85 0.0089 0.0074

Mars 74244-05-27 03:51 G 28838270.61 28838270.66 28838270.72 0.1799 0.1615

Venus 74244-07-25 23:17 G 28838330.35 28838330.47 28838330.59 0.3706 0.0924

Neptune 74244-07-28 08:10 G 28838332.79 28838332.84 28838332.91 0.0089 0.0083

Saturn 74248-04-05 23:03 G 28839680.37 28839680.46 28839680.56 0.0277 0.0211

Saturn 74248-07-03 12:58 G 28839768.90 28839769.04 28839769.18 0.0277 0.0081

Saturn 74248-09-30 03:07 G 28839857.48 28839857.63 28839857.77 0.0277 0.0052

Jupiter 74248-09-30 12:43 G 28839857.93 28839858.03 28839858.12 0.0489 0.0376

Saturn 74248-12-27 17:17 G 28839946.12 28839946.22 28839946.34 0.0278 0.0189

Jupiter 74248-12-28 23:46 G 28839947.37 28839947.49 28839947.62 0.0487 0.0273

Uranus 74249-09-17 15:36 G 28840210.08 28840210.15 28840210.22 0.0143 0.0127

Uranus 74249-12-14 20:39 G 28840298.26 28840298.36 28840298.47 0.0143 0.0102

Uranus 74250-03-13 01:41 G 28840386.45 28840386.57 28840386.71 0.0143 0.0078

Uranus 74250-06-09 06:58 G 28840474.65 28840474.79 28840474.93 0.0143 0.0053

Uranus 74250-09-05 12:00 G 28840562.85 28840563.00 28840563.16 0.0143 0.0029

Uranus 74250-12-02 17:17 G 28840651.07 28840651.22 28840651.38 0.0143 0.0005

Uranus 74251-02-28 22:34 G 28840739.29 28840739.44 28840739.60 0.0143 0.0022

Uranus 74251-05-28 03:51 G 28840827.52 28840827.66 28840827.81 0.0143 0.0047

Uranus 74251-08-24 09:07 G 28840915.75 28840915.88 28840916.02 0.0143 0.0073

Uranus 74251-11-20 14:39 G 28841004.00 28841004.11 28841004.23 0.0143 0.0098

Uranus 74252-02-16 19:55 G 28841092.26 28841092.33 28841092.42 0.0143 0.0124

Mars 74252-09-25 20:24 G 28841314.20 28841314.35 28841314.50 0.1741 0.0290

Earth 74252-10-05 14:10 G 28841323.99 28841324.09 28841324.19 0.2702 0.1558

Moon 74252-10-05 14:39 G 28841324.01 28841324.11 28841324.21 0.2696 0.1676 *

Mars 74253-10-17 11:46 G 28841700.88 28841700.99 28841701.10 0.1792 0.0812

Jupiter 74254-12-03 03:07 G 28842112.54 28842112.63 28842112.73 0.0539 0.0425

Jupiter 74255-03-03 00:29 G 28842202.46 28842202.52 28842202.58 0.0541 0.0485

Moon 74255-04-05 05:03 G 28842235.58 28842235.71 28842235.84 0.2624 0.0047

Earth 74255-04-05 05:17 G 28842235.59 28842235.72 28842235.85 0.2630 0.0095 *

Venus 74257-03-06 14:39 G 28842937.01 28842937.11 28842937.22 0.3664 0.1406

Earth 74259-09-29 01:27 G 28843873.55 28843873.56 28843873.57 0.2704 0.2684

Moon 74259-09-29 01:55 G 28843873.56 28843873.58 28843873.60 0.2711 0.2672 *

Jupiter 74260-10-17 02:39 G 28844257.47 28844257.61 28844257.76 0.0488 0.0115

Mars 74262-02-15 22:19 G 28844744.33 28844744.43 28844744.53 0.1748 0.1299

Saturn 74262-08-16 11:46 G 28844925.87 28844925.99 28844926.12 0.0282 0.0185

Venus 74262-09-20 10:05 G 28844960.83 28844960.92 28844961.02 0.3665 0.2115

Saturn 74262-11-13 05:03 G 28845014.56 28845014.71 28845014.87 0.0282 0.0032

Saturn 74263-02-09 21:51 G 28845103.27 28845103.41 28845103.56 0.0282 0.0119

Mars 74263-03-09 19:41 G 28845131.20 28845131.32 28845131.45 0.1786 0.0066

Saturn 74263-05-09 14:10 G 28845192.05 28845192.09 28845192.15 0.0281 0.0264

Jupiter 74266-12-20 00:58 G 28846512.41 28846512.54 28846512.67 0.0541 0.0263

Moon 74268-04-07 02:39 G 28846986.49 28846986.61 28846986.73 0.2626 0.1185

Earth 74268-04-07 03:36 G 28846986.54 28846986.65 28846986.76 0.2630 0.1356 *

Mars 74272-07-30 04:05 G 28848561.56 28848561.67 28848561.78 0.1779 0.0727

Jupiter 74272-08-05 05:31 G 28848567.58 28848567.73 28848567.88 0.0488 0.0047

Earth 74272-09-30 23:46 G 28848624.38 28848624.49 28848624.61 0.2703 0.1127

Moon 74272-10-01 00:43 G 28848624.41 28848624.53 28848624.65 0.2705 0.1026 *

Mars 74273-06-14 15:22 G 28848881.13 28848881.14 28848881.15 0.1728 0.1722

Earth 74275-03-31 14:53 G 28849536.10 28849536.12 28849536.14 0.2629 0.2591

Moon 74275-03-31 15:51 G 28849536.12 28849536.16 28849536.19 0.2626 0.2515 *

Saturn 74277-08-24 00:29 G 28850412.46 28850412.52 28850412.58 0.0277 0.0249

Saturn 74277-11-20 14:10 G 28850500.96 28850501.09 28850501.22 0.0277 0.0121

Saturn 74278-02-17 04:05 G 28850589.52 28850589.67 28850589.82 0.0277 0.0013

Saturn 74278-05-16 18:29 G 28850678.14 28850678.27 28850678.40 0.0278 0.0146

Jupiter 74278-10-08 01:41 G 28850822.42 28850822.57 28850822.72 0.0541 0.0048

Mars 74281-12-20 12:29 G 28851991.95 28851992.02 28851992.09 0.1772 0.1456

Mars 74282-11-04 18:29 G 28852311.13 28852311.27 28852311.40 0.1735 0.0802

Mars 74283-11-26 04:05 G 28852697.63 28852697.67 28852697.71 0.1799 0.1709

Jupiter 74284-05-24 08:24 G 28852877.72 28852877.85 28852877.98 0.0488 0.0207

Jupiter 74284-08-21 19:55 G 28852967.27 28852967.33 28852967.38 0.0487 0.0447

Earth 74285-10-03 21:51 G 28853375.28 28853375.41 28853375.53 0.2703 0.0378

Moon 74285-10-03 22:48 G 28853375.32 28853375.45 28853375.57 0.2701 0.0543 *

Earth 74288-04-02 12:43 G 28854286.91 28854287.03 28854287.14 0.2629 0.1231

Moon 74288-04-02 13:12 G 28854286.93 28854287.05 28854287.16 0.2623 0.1132 *

Jupiter 74290-07-27 02:24 G 28855132.46 28855132.60 28855132.75 0.0540 0.0171

Saturn 74292-01-03 11:17 G 28855657.89 28855657.97 28855658.05 0.0282 0.0239

Mars 74292-03-26 21:07 G 28855741.22 28855741.38 28855741.53 0.1741 0.0161

Saturn 74292-04-01 04:48 G 28855746.54 28855746.70 28855746.85 0.0282 0.0083

Saturn 74292-06-28 21:36 G 28855835.25 28855835.40 28855835.56 0.0282 0.0069

Saturn 74292-09-25 14:10 G 28855924.00 28855924.09 28855924.20 0.0281 0.0216

Uranus 74292-09-25 14:24 G 28855924.03 28855924.10 28855924.19 0.0135 0.0116 *

Uranus 74292-12-22 19:27 G 28856012.20 28856012.31 28856012.42 0.0135 0.0094

Uranus 74293-03-21 00:00 G 28856100.37 28856100.50 28856100.64 0.0135 0.0073

Mars 74293-04-17 11:46 G 28856127.88 28856127.99 28856128.10 0.1792 0.0898

Uranus 74293-06-17 04:48 G 28856188.56 28856188.70 28856188.85 0.0135 0.0051

Uranus 74293-09-13 09:36 G 28856276.75 28856276.90 28856277.05 0.0135 0.0030

Uranus 74293-12-10 14:10 G 28856364.94 28856365.09 28856365.25 0.0135 0.0009

Uranus 74294-03-08 18:43 G 28856453.13 28856453.28 28856453.44 0.0135 0.0013

Uranus 74294-06-04 23:17 G 28856541.32 28856541.47 28856541.63 0.0135 0.0033

Uranus 74294-09-01 03:51 G 28856629.52 28856629.66 28856629.81 0.0135 0.0054

Uranus 74294-11-28 08:10 G 28856717.72 28856717.84 28856717.98 0.0135 0.0075

Uranus 74295-02-24 12:43 G 28856805.93 28856806.03 28856806.15 0.0135 0.0096

Uranus 74295-05-23 17:17 G 28856894.14 28856894.22 28856894.30 0.0135 0.0116

Venus 74295-08-17 00:58 G 28856979.43 28856979.54 28856979.65 0.3707 0.1742

Jupiter 74296-03-12 10:48 G 28857187.86 28857187.95 28857188.04 0.0489 0.0375

Jupiter 74296-06-09 21:51 G 28857277.29 28857277.41 28857277.53 0.0487 0.0274

Earth 74298-10-06 19:27 G 28858126.22 28858126.31 28858126.41 0.2702 0.1831

Moon 74298-10-06 19:55 G 28858126.23 28858126.33 28858126.42 0.2695 0.1781 *

Venus 74301-03-02 22:19 G 28859003.33 28859003.43 28859003.52 0.3706 0.2411

Moon 74301-04-06 10:19 G 28859037.79 28859037.93 28859038.06 0.2624 0.0099

Earth 74301-04-06 10:48 G 28859037.82 28859037.95 28859038.08 0.2630 0.0198 *

Mars 74301-08-17 22:48 G 28859171.34 28859171.45 28859171.56 0.1748 0.1173

Jupiter 74302-05-16 02:10 G 28859442.50 28859442.59 28859442.70 0.0539 0.0405

Jupiter 74302-08-13 23:31 G 28859532.43 28859532.48 28859532.53 0.0541 0.0504

Mars 74302-09-08 19:41 G 28859558.20 28859558.32 28859558.45 0.1786 0.0134

Earth 74305-09-30 06:58 G 28860675.73 28860675.79 28860675.84 0.2704 0.2387

Moon 74305-09-30 07:27 G 28860675.74 28860675.81 28860675.88 0.2710 0.2283 *

Saturn 74307-01-12 03:22 G 28861144.63 28861144.64 28861144.64 0.0276 0.0276

Saturn 74307-04-10 16:48 G 28861233.08 28861233.20 28861233.33 0.0277 0.0149

Saturn 74307-07-08 06:43 G 28861321.64 28861321.78 28861321.93 0.0277 0.0019

Saturn 74307-10-04 21:07 G 28861410.24 28861410.38 28861410.52 0.0277 0.0118

Saturn 74308-01-01 11:31 G 28861498.93 28861498.98 28861499.05 0.0278 0.0256

Venus 74308-03-28 18:00 G 28861586.22 28861586.25 28861586.27 0.3663 0.3538

Jupiter 74308-03-30 00:29 G 28861587.38 28861587.52 28861587.67 0.0488 0.0111

Mars 74312-01-30 04:05 G 28862988.56 28862988.67 28862988.79 0.1779 0.0634

Venus 74313-10-12 13:12 G 28863609.93 28863610.05 28863610.17 0.3664 0.0135

Moon 74314-04-09 08:10 G 28863788.73 28863788.84 28863788.94 0.2627 0.1619

Earth 74314-04-09 09:07 G 28863788.77 28863788.88 28863788.98 0.2631 0.1639 *

Jupiter 74314-06-01 22:48 G 28863842.32 28863842.45 28863842.58 0.0541 0.0259

Earth 74318-10-03 05:17 G 28865426.59 28865426.72 28865426.84 0.2703 0.0845

Moon 74318-10-03 06:15 G 28865426.64 28865426.76 28865426.88 0.2704 0.0751 *

Venus 74319-04-28 08:39 G 28865633.82 28865633.86 28865633.89 0.3666 0.3443

Jupiter 74320-01-17 03:36 G 28865897.50 28865897.65 28865897.80 0.0488 0.0047

Earth 74321-04-01 20:10 G 28866338.29 28866338.34 28866338.40 0.2629 0.2337

Moon 74321-04-01 21:07 G 28866338.31 28866338.38 28866338.44 0.2624 0.2273 *

Saturn 74321-05-23 14:10 G 28866390.03 28866390.09 28866390.15 0.0283 0.0262

Mars 74321-06-21 12:29 G 28866418.95 28866419.02 28866419.10 0.1772 0.1363

Saturn 74321-08-20 07:41 G 28866478.67 28866478.82 28866478.97 0.0282 0.0106

Saturn 74321-11-17 00:43 G 28866567.37 28866567.53 28866567.69 0.0282 0.0046

Saturn 74322-02-13 17:17 G 28866656.11 28866656.22 28866656.33 0.0281 0.0193

Mars 74322-05-06 18:58 G 28866738.16 28866738.29 28866738.42 0.1735 0.0924

Neptune 74322-09-10 13:55 G 28866865.04 28866865.08 28866865.14 0.0088 0.0083

Neptune 74322-12-07 15:51 G 28866953.09 28866953.16 28866953.25 0.0088 0.0075

Neptune 74323-03-05 18:00 G 28867041.16 28867041.25 28867041.35 0.0088 0.0067

Neptune 74323-06-01 19:55 G 28867129.22 28867129.33 28867129.45 0.0088 0.0059

Neptune 74323-08-28 21:51 G 28867217.30 28867217.41 28867217.55 0.0088 0.0051

Neptune 74323-11-25 00:00 G 28867305.37 28867305.50 28867305.64 0.0088 0.0043

Neptune 74324-02-21 01:55 G 28867393.45 28867393.58 28867393.74 0.0088 0.0035

Neptune 74324-05-19 04:19 G 28867481.53 28867481.68 28867481.83 0.0088 0.0026

Neptune 74324-08-15 06:15 G 28867569.61 28867569.76 28867569.92 0.0088 0.0018

Neptune 74324-11-11 08:24 G 28867657.69 28867657.85 28867658.01 0.0088 0.0010

Neptune 74325-02-07 10:34 G 28867745.78 28867745.94 28867746.09 0.0088 0.0002

Neptune 74325-05-06 12:29 G 28867833.87 28867834.02 28867834.18 0.0088 0.0007

Neptune 74325-08-02 14:39 G 28867921.95 28867922.11 28867922.27 0.0088 0.0015

Neptune 74325-10-29 16:48 G 28868010.05 28868010.20 28868010.35 0.0088 0.0024

Neptune 74326-01-25 18:43 G 28868098.14 28868098.28 28868098.44 0.0088 0.0033

Jupiter 74326-03-20 23:03 G 28868152.31 28868152.46 28868152.61 0.0540 0.0034

Neptune 74326-04-23 20:53 G 28868186.24 28868186.37 28868186.52 0.0088 0.0041

Neptune 74326-07-20 23:17 G 28868274.33 28868274.47 28868274.60 0.0088 0.0049

Neptune 74326-10-17 01:12 G 28868362.44 28868362.55 28868362.67 0.0088 0.0058

Neptune 74327-01-13 03:07 G 28868450.54 28868450.63 28868450.75 0.0088 0.0067

Neptune 74327-04-11 05:31 G 28868538.66 28868538.73 28868538.82 0.0088 0.0075

Neptune 74327-07-08 07:27 G 28868626.78 28868626.81 28868626.87 0.0088 0.0084

Mars 74331-09-26 21:22 G 28870168.24 28870168.39 28870168.54 0.1741 0.0049

Earth 74331-10-06 03:07 G 28870177.51 28870177.63 28870177.75 0.2703 0.0656

Moon 74331-10-06 04:05 G 28870177.55 28870177.67 28870177.79 0.2700 0.0708 *

Jupiter 74331-11-05 06:29 G 28870207.64 28870207.77 28870207.91 0.0488 0.0206

Jupiter 74332-02-02 18:00 G 28870297.19 28870297.25 28870297.30 0.0487 0.0448

Mars 74332-10-17 11:46 G 28870554.89 28870554.99 28870555.10 0.1792 0.0993

Uranus 74333-07-12 17:46 G 28870823.24 28870823.24 28870823.25 0.0143 0.0143

Uranus 74333-10-08 22:48 G 28870911.37 28870911.45 28870911.54 0.0143 0.0119

Uranus 74334-01-05 03:51 G 28870999.55 28870999.66 28870999.78 0.0143 0.0095

Uranus 74334-04-03 09:07 G 28871087.74 28871087.88 28871088.01 0.0143 0.0070

Earth 74334-04-04 18:00 G 28871089.13 28871089.25 28871089.37 0.2629 0.0963

Moon 74334-04-04 18:15 G 28871089.14 28871089.26 28871089.39 0.2623 0.0968 *

Uranus 74334-06-30 14:10 G 28871175.95 28871176.09 28871176.24 0.0143 0.0046

Uranus 74334-09-26 19:27 G 28871264.16 28871264.31 28871264.46 0.0143 0.0021

Uranus 74334-12-24 00:43 G 28871352.37 28871352.53 28871352.68 0.0143 0.0005

Uranus 74335-03-22 05:46 G 28871440.59 28871440.74 28871440.90 0.0143 0.0030

Uranus 74335-06-18 11:03 G 28871528.82 28871528.96 28871529.11 0.0143 0.0055

Uranus 74335-09-14 16:34 G 28871617.06 28871617.19 28871617.32 0.0143 0.0080

Uranus 74335-12-11 21:51 G 28871705.31 28871705.41 28871705.52 0.0143 0.0106

Uranus 74336-03-09 03:07 G 28871793.58 28871793.63 28871793.70 0.0143 0.0132

Saturn 74336-08-27 18:15 G 28871965.16 28871965.26 28871965.37 0.0277 0.0186

Saturn 74336-11-24 08:10 G 28872053.70 28872053.84 28872053.99 0.0277 0.0056

Saturn 74337-02-20 22:19 G 28872142.29 28872142.43 28872142.58 0.0277 0.0078

Saturn 74337-05-20 12:43 G 28872230.94 28872231.03 28872231.13 0.0278 0.0214

Jupiter 74338-01-06 23:46 G 28872462.34 28872462.49 28872462.63 0.0540 0.0187

Mars 74341-02-15 23:31 G 28873598.35 28873598.48 28873598.60 0.1748 0.1038

Mars 74342-03-09 19:55 G 28873985.20 28873985.33 28873985.45 0.1786 0.0213

Jupiter 74343-08-24 09:36 G 28874517.80 28874517.90 28874518.00 0.0489 0.0363

Jupiter 74343-11-21 20:39 G 28874607.24 28874607.36 28874607.48 0.0487 0.0285

Earth 74344-10-08 00:58 G 28874928.46 28874928.54 28874928.61 0.2702 0.2100

Moon 74344-10-08 01:12 G 28874928.48 28874928.55 28874928.62 0.2695 0.2182 *

Moon 74347-04-07 15:36 G 28875840.02 28875840.15 28875840.28 0.2624 0.0458

Earth 74347-04-07 16:05 G 28875840.04 28875840.17 28875840.30 0.2630 0.0460 *

Jupiter 74349-10-26 00:15 G 28876772.41 28876772.51 28876772.61 0.0539 0.0405

Jupiter 74350-01-23 21:36 G 28876862.35 28876862.40 28876862.45 0.0541 0.0506

Saturn 74351-01-07 06:43 G 28877210.65 28877210.78 28877210.92 0.0282 0.0162

Saturn 74351-04-06 00:00 G 28877299.34 28877299.50 28877299.66 0.0282 0.0012

Saturn 74351-07-03 16:48 G 28877388.07 28877388.20 28877388.34 0.0281 0.0141

Mars 74351-07-31 04:05 G 28877415.55 28877415.67 28877415.78 0.1779 0.0554

Earth 74351-10-01 12:15 G 28877477.93 28877478.01 28877478.09 0.2704 0.2093

Moon 74351-10-01 12:58 G 28877477.96 28877478.04 28877478.12 0.2708 0.2091 *

Venus 74352-03-24 00:00 G 28877652.38 28877652.50 28877652.62 0.3707 0.0206

Jupiter 74355-09-09 22:48 G 28878917.30 28878917.45 28878917.60 0.0488 0.0113

Pluto 74357-04-15 09:51 G 28879500.90 28879500.91 28879500.94 0.0064 0.0063

Pluto 74357-07-12 10:48 G 28879588.86 28879588.95 28879589.04 0.0064 0.0052

Pluto 74357-10-08 11:17 G 28879676.87 28879676.97 28879677.11 0.0064 0.0042

Pluto 74358-01-04 12:15 G 28879764.88 28879765.01 28879765.16 0.0064 0.0031

Pluto 74358-04-02 13:12 G 28879852.90 28879853.05 28879853.20 0.0064 0.0020

Pluto 74358-06-29 14:10 G 28879940.93 28879941.09 28879941.24 0.0064 0.0010

Pluto 74358-09-25 14:53 G 28880028.96 28880029.12 28880029.28 0.0064 0.0001

Pluto 74358-12-22 15:36 G 28880117.00 28880117.15 28880117.31 0.0064 0.0012

Pluto 74359-03-20 16:19 G 28880205.04 28880205.18 28880205.34 0.0065 0.0023

Pluto 74359-06-16 17:17 G 28880293.09 28880293.22 28880293.36 0.0065 0.0034

Pluto 74359-09-12 18:00 G 28880381.15 28880381.25 28880381.37 0.0065 0.0045

Pluto 74359-12-09 18:43 G 28880469.21 28880469.28 28880469.37 0.0065 0.0056

Moon 74360-04-09 13:41 G 28880590.97 28880591.07 28880591.16 0.2629 0.1745

Earth 74360-04-09 14:39 G 28880591.02 28880591.11 28880591.19 0.2631 0.1927 *

Mars 74360-12-20 12:29 G 28880845.94 28880846.02 28880846.11 0.1773 0.1275

Mars 74361-11-04 19:27 G 28881165.19 28881165.31 28881165.43 0.1735 0.1043

Jupiter 74361-11-11 21:51 G 28881172.29 28881172.41 28881172.54 0.0541 0.0282

Earth 74364-10-03 10:34 G 28882228.82 28882228.94 28882229.07 0.2703 0.0553

Moon 74364-10-03 11:46 G 28882228.86 28882228.99 28882229.11 0.2704 0.0406 *

Venus 74364-11-02 16:19 G 28882259.09 28882259.18 28882259.27 0.3663 0.2285

Saturn 74366-01-14 20:39 G 28882697.28 28882697.36 28882697.45 0.0277 0.0217

Saturn 74366-04-13 10:34 G 28882785.80 28882785.94 28882786.08 0.0277 0.0087

Saturn 74366-07-11 00:29 G 28882874.38 28882874.52 28882874.67 0.0277 0.0046

Saturn 74366-10-07 14:53 G 28882963.01 28882963.12 28882963.24 0.0278 0.0182

Earth 74367-04-03 01:41 G 28883140.49 28883140.57 28883140.64 0.2629 0.2073

Moon 74367-04-03 02:24 G 28883140.51 28883140.60 28883140.68 0.2624 0.1954 *

Jupiter 74367-06-29 01:41 G 28883227.42 28883227.57 28883227.71 0.0488 0.0050

Venus 74370-05-19 11:31 G 28884282.87 28884282.98 28884283.09 0.3665 0.1176

Mars 74371-03-27 21:51 G 28884595.26 28884595.41 28884595.57 0.1741 0.0102

Mars 74372-04-17 12:00 G 28884981.90 28884982.00 28884982.10 0.1792 0.1090

Jupiter 74373-08-30 21:07 G 28885482.23 28885482.38 28885482.53 0.0540 0.0033

Uranus 74376-07-20 16:34 G 28886537.17 28886537.19 28886537.23 0.0135 0.0132

Uranus 74376-10-16 21:22 G 28886625.31 28886625.39 28886625.49 0.0135 0.0110

Uranus 74377-01-13 02:24 G 28886713.48 28886713.60 28886713.72 0.0135 0.0088

Uranus 74377-04-11 06:58 G 28886801.66 28886801.79 28886801.93 0.0135 0.0067

Uranus 74377-07-08 11:46 G 28886889.84 28886889.99 28886890.14 0.0135 0.0045

Uranus 74377-10-04 16:34 G 28886978.03 28886978.19 28886978.34 0.0135 0.0024

Earth 74377-10-06 08:39 G 28886979.74 28886979.86 28886979.97 0.2702 0.0937

Moon 74377-10-06 09:22 G 28886979.77 28886979.89 28886980.00 0.2698 0.1015 *

Uranus 74377-12-31 21:07 G 28887066.22 28887066.38 28887066.54 0.0135 0.0003

Uranus 74378-03-30 01:41 G 28887154.42 28887154.57 28887154.73 0.0135 0.0018

Uranus 74378-06-26 06:15 G 28887242.61 28887242.76 28887242.91 0.0135 0.0039

Uranus 74378-09-22 10:34 G 28887330.81 28887330.94 28887331.09 0.0135 0.0061

Uranus 74378-12-19 15:22 G 28887419.02 28887419.14 28887419.26 0.0135 0.0081

Uranus 74379-03-17 19:41 G 28887507.23 28887507.32 28887507.43 0.0135 0.0101

Jupiter 74379-04-17 04:48 G 28887537.56 28887537.70 28887537.83 0.0489 0.0204

Uranus 74379-06-14 00:15 G 28887595.45 28887595.51 28887595.58 0.0135 0.0122

Jupiter 74379-07-15 16:05 G 28887627.12 28887627.17 28887627.23 0.0487 0.0451

Moon 74380-04-04 23:31 G 28887891.35 28887891.48 28887891.61 0.2623 0.0684

Earth 74380-04-04 23:31 G 28887891.35 28887891.48 28887891.60 0.2629 0.0699 *

Saturn 74380-05-26 09:36 G 28887942.78 28887942.90 28887943.03 0.0282 0.0185

Mars 74380-08-17 00:00 G 28888025.37 28888025.50 28888025.63 0.1748 0.0918

Saturn 74380-08-23 03:07 G 28888031.47 28888031.63 28888031.79 0.0282 0.0032

Saturn 74380-11-19 19:55 G 28888120.18 28888120.33 28888120.47 0.0282 0.0119

Saturn 74381-02-16 12:15 G 28888208.96 28888209.01 28888209.06 0.0281 0.0264

Mars 74381-09-07 19:55 G 28888412.21 28888412.33 28888412.45 0.1785 0.0302

Jupiter 74385-06-18 21:07 G 28889792.24 28889792.38 28889792.52 0.0540 0.0198

Earth 74390-10-09 06:15 G 28891730.70 28891730.76 28891730.82 0.2702 0.2372

Moon 74390-10-09 06:29 G 28891730.71 28891730.77 28891730.83 0.2695 0.2331 *

Mars 74391-01-29 04:05 G 28891842.55 28891842.67 28891842.79 0.1779 0.0458

Jupiter 74391-02-03 07:41 G 28891847.73 28891847.82 28891847.92 0.0489 0.0361

Jupiter 74391-05-03 18:43 G 28891937.16 28891937.28 28891937.40 0.0487 0.0287

Moon 74393-04-07 20:53 G 28892642.24 28892642.37 28892642.50 0.2624 0.0615

Earth 74393-04-07 21:36 G 28892642.27 28892642.40 28892642.52 0.2630 0.0733 *

Saturn 74395-06-03 22:19 G 28893429.38 28893429.43 28893429.49 0.0277 0.0253

Saturn 74395-08-31 12:00 G 28893517.87 28893518.00 28893518.13 0.0277 0.0125

Saturn 74395-11-28 01:55 G 28893606.43 28893606.58 28893606.73 0.0277 0.0007

Saturn 74396-02-24 16:05 G 28893695.05 28893695.17 28893695.31 0.0278 0.0142

Jupiter 74397-04-06 21:36 G 28894102.30 28894102.40 28894102.49 0.0539 0.0422

Jupiter 74397-07-05 18:58 G 28894192.23 28894192.29 28894192.35 0.0541 0.0492

Earth 74397-10-01 17:46 G 28894280.14 28894280.24 28894280.33 0.2704 0.1803

Moon 74397-10-01 18:29 G 28894280.17 28894280.27 28894280.37 0.2707 0.1631 *

Mars 74400-06-20 12:29 G 28895272.93 28895273.02 28895273.11 0.1772 0.1186

Mars 74401-05-05 19:55 G 28895592.22 28895592.33 28895592.44 0.1735 0.1162

Jupiter 74403-02-19 21:36 G 28896247.25 28896247.40 28896247.54 0.0488 0.0125

Venus 74403-04-15 01:27 G 28896301.49 28896301.56 28896301.63 0.3708 0.2922

Neptune 74404-06-28 11:46 G 28896741.98 28896741.99 28896742.01 0.0090 0.0089

Neptune 74404-09-24 13:55 G 28896830.02 28896830.08 28896830.16 0.0090 0.0080

Neptune 74404-12-21 16:19 G 28896918.09 28896918.18 28896918.28 0.0090 0.0071

Neptune 74405-03-19 18:29 G 28897006.16 28897006.27 28897006.39 0.0090 0.0062

Neptune 74405-06-15 20:39 G 28897094.24 28897094.36 28897094.50 0.0090 0.0053

Neptune 74405-09-11 23:03 G 28897182.33 28897182.46 28897182.61 0.0090 0.0044

Neptune 74405-12-09 01:12 G 28897270.41 28897270.55 28897270.71 0.0090 0.0035

Neptune 74406-03-07 03:36 G 28897358.50 28897358.65 28897358.80 0.0090 0.0026

Moon 74406-04-10 18:58 G 28897393.22 28897393.29 28897393.36 0.2631 0.2172

Earth 74406-04-10 20:10 G 28897393.27 28897393.34 28897393.41 0.2631 0.2213 *

Neptune 74406-06-03 05:46 G 28897446.59 28897446.74 28897446.90 0.0090 0.0017

Neptune 74406-08-30 07:55 G 28897534.68 28897534.83 28897534.99 0.0090 0.0009

Neptune 74406-11-26 10:19 G 28897622.77 28897622.93 28897623.09 0.0090 0.0001

Neptune 74407-02-22 12:29 G 28897710.86 28897711.02 28897711.18 0.0090 0.0010

Neptune 74407-05-21 14:39 G 28897798.96 28897799.11 28897799.26 0.0090 0.0019

Neptune 74407-08-17 16:34 G 28897887.05 28897887.19 28897887.35 0.0090 0.0028

Neptune 74407-11-13 18:43 G 28897975.15 28897975.28 28897975.43 0.0090 0.0036

Neptune 74408-02-09 20:53 G 28898063.24 28898063.37 28898063.51 0.0090 0.0045

Neptune 74408-05-07 23:03 G 28898151.34 28898151.46 28898151.59 0.0089 0.0054

Neptune 74408-08-04 00:58 G 28898239.44 28898239.54 28898239.66 0.0089 0.0062

Venus 74408-10-28 22:48 G 28898325.34 28898325.45 28898325.57 0.3707 0.1318

Neptune 74408-10-31 03:07 G 28898327.55 28898327.63 28898327.73 0.0089 0.0071

Neptune 74409-01-27 05:03 G 28898415.66 28898415.71 28898415.80 0.0089 0.0080

Jupiter 74409-04-23 19:55 G 28898502.21 28898502.33 28898502.46 0.0541 0.0282

Neptune 74409-04-25 07:12 G 28898503.79 28898503.80 28898503.84 0.0089 0.0088

Saturn 74409-10-13 08:39 G 28898674.78 28898674.86 28898674.95 0.0282 0.0242

Saturn 74410-01-10 02:10 G 28898763.44 28898763.59 28898763.75 0.0282 0.0087

Saturn 74410-04-08 19:12 G 28898852.15 28898852.30 28898852.46 0.0281 0.0065

Saturn 74410-07-06 11:46 G 28898940.89 28898940.99 28898941.10 0.0281 0.0212

Mars 74410-09-25 22:34 G 28899022.29 28899022.44 28899022.59 0.1741 0.0217

Earth 74410-10-04 16:05 G 28899031.04 28899031.17 28899031.29 0.2703 0.0287

Moon 74410-10-04 17:03 G 28899031.08 28899031.21 28899031.33 0.2703 0.0213 *

Mars 74411-10-17 11:46 G 28899408.90 28899408.99 28899409.09 0.1792 0.1171

Earth 74413-04-03 06:58 G 28899942.70 28899942.79 28899942.88 0.2629 0.1815

Moon 74413-04-03 07:41 G 28899942.73 28899942.82 28899942.91 0.2624 0.1788 *

Jupiter 74414-12-09 00:00 G 28900557.35 28900557.50 28900557.65 0.0488 0.0045

Uranus 74417-08-02 01:27 G 28901524.51 28901524.56 28901524.61 0.0143 0.0135

Uranus 74417-10-29 06:29 G 28901612.67 28901612.77 28901612.86 0.0143 0.0111

Uranus 74418-01-25 11:17 G 28901700.86 28901700.97 28901701.10 0.0143 0.0087

Uranus 74418-04-23 16:34 G 28901789.05 28901789.19 28901789.33 0.0143 0.0062

Uranus 74418-07-20 21:36 G 28901877.26 28901877.40 28901877.56 0.0143 0.0037

Uranus 74418-10-17 02:53 G 28901965.47 28901965.62 28901965.78 0.0143 0.0012

Uranus 74419-01-13 08:10 G 28902053.68 28902053.84 28902054.00 0.0143 0.0013

Uranus 74419-04-11 13:27 G 28902141.91 28902142.06 28902142.21 0.0143 0.0038

Uranus 74419-07-08 18:43 G 28902230.14 28902230.28 28902230.42 0.0143 0.0063

Uranus 74419-10-05 00:00 G 28902318.38 28902318.50 28902318.63 0.0143 0.0089

Uranus 74420-01-01 05:17 G 28902406.64 28902406.72 28902406.82 0.0143 0.0115

Mars 74420-02-16 00:29 G 28902452.38 28902452.52 28902452.66 0.1748 0.0788

Uranus 74420-03-29 10:48 G 28902494.93 28902494.95 28902494.98 0.0143 0.0140

Jupiter 74421-02-09 20:24 G 28902812.20 28902812.35 28902812.50 0.0540 0.0058

Mars 74421-03-08 19:55 G 28902839.21 28902839.33 28902839.45 0.1786 0.0391

Venus 74421-06-09 14:39 G 28902932.00 28902932.11 28902932.22 0.3664 0.1022

Earth 74423-10-07 13:55 G 28903781.97 28903782.08 28903782.19 0.2702 0.1214

Moon 74423-10-07 14:39 G 28903782.00 28903782.11 28903782.22 0.2697 0.1300 *

Saturn 74425-01-17 13:41 G 28904249.96 28904250.07 28904250.19 0.0277 0.0161

Saturn 74425-04-16 03:36 G 28904338.50 28904338.65 28904338.80 0.0277 0.0030

Saturn 74425-07-13 17:46 G 28904427.11 28904427.24 28904427.38 0.0278 0.0104

Saturn 74425-10-10 08:24 G 28904515.78 28904515.85 28904515.92 0.0278 0.0242

Moon 74426-04-06 04:34 G 28904693.56 28904693.69 28904693.82 0.2623 0.0422

Earth 74426-04-06 04:48 G 28904693.57 28904693.70 28904693.83 0.2629 0.0427 *

Jupiter 74426-09-27 02:53 G 28904867.48 28904867.62 28904867.75 0.0489 0.0204

Venus 74426-12-24 09:51 G 28904955.82 28904955.91 28904956.00 0.3665 0.2466

Jupiter 74426-12-25 14:10 G 28904957.04 28904957.09 28904957.15 0.0487 0.0451

Mars 74430-07-30 04:05 G 28906269.55 28906269.67 28906269.80 0.1779 0.0369

Jupiter 74432-11-28 19:12 G 28907122.16 28907122.30 28907122.45 0.0539 0.0196

Earth 74436-10-09 11:31 G 28908532.96 28908532.98 28908533.00 0.2702 0.2643

Moon 74436-10-09 11:31 G 28908532.97 28908532.98 28908533.00 0.2695 0.2658 *

Jupiter 74438-07-16 06:00 G 28909177.66 28909177.75 28909177.85 0.0489 0.0358

Jupiter 74438-10-13 17:03 G 28909267.09 28909267.21 28909267.33 0.0488 0.0292

Saturn 74439-03-02 11:17 G 28909406.92 28909406.97 28909407.03 0.0283 0.0267

Moon 74439-04-09 02:24 G 28909444.47 28909444.60 28909444.72 0.2625 0.0966

Earth 74439-04-09 03:07 G 28909444.51 28909444.63 28909444.75 0.2630 0.1014 *

Saturn 74439-05-30 04:48 G 28909495.56 28909495.70 28909495.85 0.0282 0.0112

Saturn 74439-08-26 22:05 G 28909584.26 28909584.42 28909584.58 0.0282 0.0041

Saturn 74439-11-23 14:39 G 28909673.00 28909673.11 28909673.23 0.0281 0.0189

Mars 74439-12-20 12:29 G 28909699.93 28909700.02 28909700.12 0.1772 0.1099

Mars 74440-11-03 20:24 G 28910019.25 28910019.35 28910019.45 0.1735 0.1281

Earth 74443-10-02 23:17 G 28911082.36 28911082.47 28911082.57 0.2704 0.1513

Moon 74443-10-03 00:15 G 28911082.40 28911082.51 28911082.61 0.2707 0.1494 *

Jupiter 74444-09-16 19:12 G 28911432.21 28911432.30 28911432.39 0.0539 0.0429

Jupiter 74444-12-15 16:34 G 28911522.13 28911522.19 28911522.25 0.0541 0.0484

Pluto 74446-09-24 14:39 G 28912170.03 28912170.11 28912170.22 0.0080 0.0064

Pluto 74446-12-21 16:34 G 28912258.06 28912258.19 28912258.33 0.0080 0.0042

Pluto 74447-03-19 18:15 G 28912346.11 28912346.26 28912346.42 0.0080 0.0021

Pluto 74447-06-15 19:55 G 28912434.17 28912434.33 28912434.49 0.0080 0.0001

Pluto 74447-09-11 21:36 G 28912522.25 28912522.40 28912522.56 0.0080 0.0021

Pluto 74447-12-08 23:03 G 28912610.34 28912610.46 28912610.61 0.0080 0.0042

Pluto 74448-03-06 00:43 G 28912698.45 28912698.53 28912698.64 0.0080 0.0063

Mars 74450-03-26 22:48 G 28913449.30 28913449.45 28913449.60 0.1741 0.0330

Jupiter 74450-08-01 19:55 G 28913577.19 28913577.33 28913577.47 0.0488 0.0131

Mars 74451-04-17 12:00 G 28913835.91 28913836.00 28913836.09 0.1792 0.1268

Moon 74452-04-11 00:29 G 28914195.46 28914195.52 28914195.58 0.2631 0.2318

Earth 74452-04-11 01:27 G 28914195.53 28914195.56 28914195.60 0.2631 0.2497 *

Saturn 74454-06-06 15:22 G 28914982.04 28914982.14 28914982.25 0.0277 0.0197

Saturn 74454-09-03 05:17 G 28915070.57 28915070.72 28915070.86 0.0277 0.0067

Saturn 74454-11-30 19:12 G 28915159.16 28915159.30 28915159.45 0.0277 0.0066

Saturn 74455-02-27 09:36 G 28915247.80 28915247.90 28915248.01 0.0278 0.0202

Jupiter 74456-10-03 17:17 G 28915832.09 28915832.22 28915832.35 0.0541 0.0269

Earth 74456-10-04 21:22 G 28915833.26 28915833.39 28915833.52 0.2703 0.0016

Moon 74456-10-04 22:19 G 28915833.30 28915833.43 28915833.56 0.2702 0.0187 *

Earth 74459-04-04 12:15 G 28916744.91 28916745.01 28916745.12 0.2629 0.1552

Moon 74459-04-04 12:58 G 28916744.93 28916745.04 28916745.15 0.2624 0.1429 *

Mars 74459-08-17 00:58 G 28916879.40 28916879.54 28916879.69 0.1748 0.0659

Venus 74459-11-20 00:29 G 28916974.40 28916974.52 28916974.63 0.3708 0.1356

Uranus 74460-08-09 23:46 G 28917238.44 28917238.49 28917238.56 0.0135 0.0125

Mars 74460-09-06 19:55 G 28917266.21 28917266.33 28917266.45 0.1785 0.0480

Uranus 74460-11-06 04:34 G 28917326.60 28917326.69 28917326.80 0.0135 0.0103

Uranus 74461-02-02 09:22 G 28917414.77 28917414.89 28917415.02 0.0135 0.0082

Uranus 74461-05-01 14:10 G 28917502.95 28917503.09 28917503.24 0.0135 0.0060

Uranus 74461-07-28 18:43 G 28917591.14 28917591.28 28917591.44 0.0135 0.0040

Uranus 74461-10-24 23:31 G 28917679.33 28917679.48 28917679.64 0.0135 0.0018

Uranus 74462-01-21 04:19 G 28917767.52 28917767.68 28917767.83 0.0135 0.0004

Uranus 74462-04-19 08:53 G 28917855.72 28917855.87 28917856.02 0.0135 0.0025

Jupiter 74462-05-20 22:48 G 28917887.30 28917887.45 28917887.60 0.0488 0.0031

Uranus 74462-07-16 13:12 G 28917943.91 28917944.05 28917944.21 0.0135 0.0047

Uranus 74462-10-12 18:00 G 28918032.11 28918032.25 28918032.38 0.0135 0.0067

Uranus 74463-01-08 22:19 G 28918120.32 28918120.43 28918120.55 0.0135 0.0087

Uranus 74463-04-07 02:53 G 28918208.53 28918208.62 28918208.71 0.0135 0.0108

Uranus 74463-07-04 07:12 G 28918296.76 28918296.80 28918296.86 0.0135 0.0128

Venus 74465-06-04 21:51 G 28918998.33 28918998.41 28918998.49 0.3707 0.2800

Jupiter 74468-07-22 18:29 G 28920142.11 28920142.27 28920142.42 0.0540 0.0059

Saturn 74468-10-16 03:51 G 28920227.53 28920227.66 28920227.79 0.0282 0.0169

Mars 74469-01-06 02:39 G 28920309.57 28920309.61 28920309.65 0.1754 0.1693

Saturn 74469-01-12 21:07 G 28920316.22 28920316.38 28920316.54 0.0282 0.0016

Saturn 74469-04-11 13:55 G 28920404.94 28920405.08 28920405.22 0.0281 0.0134

Saturn 74469-07-09 06:29 G 28920493.75 28920493.77 28920493.79 0.0281 0.0278

Earth 74469-10-07 19:12 G 28920584.20 28920584.30 28920584.41 0.2702 0.1490

Moon 74469-10-07 19:55 G 28920584.22 28920584.33 28920584.43 0.2696 0.1505 *

Mars 74470-01-28 04:05 G 28920696.55 28920696.67 28920696.79 0.1779 0.0283

Moon 74472-04-06 09:51 G 28921495.78 28921495.91 28921496.05 0.2623 0.0244

Earth 74472-04-06 10:19 G 28921495.79 28921495.93 28921496.06 0.2629 0.0182 *

Venus 74472-06-30 17:46 G 28921581.18 28921581.24 28921581.30 0.3663 0.3160

Jupiter 74474-03-09 01:27 G 28922197.42 28922197.56 28922197.69 0.0489 0.0196

Jupiter 74474-06-06 12:43 G 28922286.98 28922287.03 28922287.08 0.0487 0.0458

Venus 74478-01-14 12:58 G 28923604.92 28923605.04 28923605.15 0.3664 0.0262

Mars 74479-06-20 12:43 G 28924126.93 28924127.03 28924127.13 0.1772 0.1004

Mars 74480-05-04 20:53 G 28924446.28 28924446.37 28924446.46 0.1735 0.1396

Jupiter 74480-05-10 18:43 G 28924452.13 28924452.28 28924452.42 0.0540 0.0168

Saturn 74483-10-24 16:34 G 28925714.12 28925714.19 28925714.27 0.0277 0.0237

Saturn 74484-01-21 06:15 G 28925802.63 28925802.76 28925802.90 0.0277 0.0109

Saturn 74484-04-18 20:24 G 28925891.20 28925891.35 28925891.50 0.0277 0.0024

Saturn 74484-07-16 10:34 G 28925979.82 28925979.94 28925980.07 0.0278 0.0159

Moon 74485-04-09 07:41 G 28926246.70 28926246.82 28926246.93 0.2627 0.1207

Earth 74485-04-09 08:24 G 28926246.74 28926246.85 28926246.97 0.2630 0.1288 *

Jupiter 74485-12-26 04:34 G 28926507.59 28926507.69 28926507.79 0.0489 0.0353

Jupiter 74486-03-25 15:22 G 28926597.02 28926597.14 28926597.26 0.0487 0.0296

Neptune 74487-03-11 10:48 G 28926947.94 28926947.95 28926947.99 0.0088 0.0087

Neptune 74487-06-07 12:43 G 28927035.98 28927036.03 28927036.12 0.0088 0.0079

Neptune 74487-09-03 14:53 G 28927124.04 28927124.12 28927124.22 0.0088 0.0071

Neptune 74487-11-30 16:48 G 28927212.11 28927212.20 28927212.32 0.0088 0.0063

Neptune 74488-02-26 19:12 G 28927300.18 28927300.30 28927300.42 0.0088 0.0054

Neptune 74488-05-24 21:07 G 28927388.25 28927388.38 28927388.52 0.0088 0.0046

Neptune 74488-08-20 23:03 G 28927476.33 28927476.46 28927476.61 0.0088 0.0038

Mars 74488-11-09 21:22 G 28927557.36 28927557.39 28927557.41 0.1766 0.1709

Neptune 74488-11-17 01:12 G 28927564.41 28927564.55 28927564.70 0.0088 0.0030

Neptune 74489-02-13 03:07 G 28927652.49 28927652.63 28927652.79 0.0088 0.0022

Neptune 74489-05-12 05:17 G 28927740.57 28927740.72 28927740.88 0.0088 0.0013

Neptune 74489-08-08 07:27 G 28927828.65 28927828.81 28927828.97 0.0088 0.0005

Mars 74489-09-24 23:31 G 28927876.33 28927876.48 28927876.62 0.1741 0.0455

Earth 74489-10-03 04:34 G 28927884.58 28927884.69 28927884.80 0.2703 0.1223

Moon 74489-10-03 05:31 G 28927884.61 28927884.73 28927884.85 0.2707 0.1035 *

Neptune 74489-11-04 09:36 G 28927916.74 28927916.90 28927917.05 0.0088 0.0004

Neptune 74490-01-31 11:31 G 28928004.83 28928004.98 28928005.14 0.0088 0.0012

Neptune 74490-04-29 13:41 G 28928092.92 28928093.07 28928093.23 0.0088 0.0020

Neptune 74490-07-26 15:36 G 28928181.01 28928181.15 28928181.31 0.0088 0.0029

Mars 74490-10-16 12:00 G 28928262.92 28928263.00 28928263.08 0.1792 0.1362

Neptune 74490-10-22 17:46 G 28928269.10 28928269.24 28928269.39 0.0088 0.0037

Neptune 74491-01-18 19:55 G 28928357.20 28928357.33 28928357.47 0.0088 0.0046

Neptune 74491-04-16 22:05 G 28928445.30 28928445.42 28928445.55 0.0088 0.0054

Neptune 74491-07-14 00:00 G 28928533.41 28928533.50 28928533.63 0.0088 0.0063

Neptune 74491-10-10 02:24 G 28928621.51 28928621.60 28928621.70 0.0088 0.0071

Neptune 74492-01-06 04:19 G 28928709.63 28928709.68 28928709.76 0.0088 0.0080

Jupiter 74492-02-27 17:31 G 28928762.14 28928762.23 28928762.33 0.0539 0.0422

Moon 74492-04-01 21:07 G 28928796.33 28928796.38 28928796.42 0.2625 0.2464

Jupiter 74492-05-27 14:53 G 28928852.06 28928852.12 28928852.18 0.0541 0.0490

Jupiter 74498-01-11 18:29 G 28930907.12 28930907.27 28930907.41 0.0488 0.0138

Saturn 74498-03-05 06:15 G 28930959.65 28930959.76 28930959.88 0.0283 0.0196

Saturn 74498-06-01 23:46 G 28931048.33 28931048.49 28931048.64 0.0282 0.0043

Saturn 74498-08-29 16:34 G 28931137.04 28931137.19 28931137.34 0.0282 0.0108

Saturn 74498-11-26 08:53 G 28931225.81 28931225.87 28931225.94 0.0281 0.0254

Mars 74499-02-15 01:41 G 28931306.42 28931306.57 28931306.71 0.1748 0.0536

Mars 74500-03-08 19:55 G 28931693.22 28931693.33 28931693.45 0.1785 0.0574

Uranus 74501-08-23 08:39 G 28932225.80 28932225.86 28932225.94 0.0143 0.0127

Uranus 74501-11-19 13:41 G 28932313.98 28932314.07 28932314.19 0.0143 0.0103

Uranus 74502-02-15 18:43 G 28932402.16 28932402.28 28932402.42 0.0143 0.0079

Uranus 74502-05-15 00:00 G 28932490.36 28932490.50 28932490.65 0.0143 0.0053

Uranus 74502-08-11 05:17 G 28932578.57 28932578.72 28932578.87 0.0143 0.0028

Earth 74502-10-07 02:53 G 28932635.49 28932635.62 28932635.74 0.2703 0.0314

Moon 74502-10-07 03:36 G 28932635.53 28932635.65 28932635.78 0.2700 0.0315 *

Uranus 74502-11-07 10:34 G 28932666.78 28932666.94 28932667.09 0.0143 0.0005

Uranus 74503-02-03 15:36 G 28932755.00 28932755.15 28932755.31 0.0143 0.0022

Uranus 74503-05-02 20:53 G 28932843.23 28932843.37 28932843.52 0.0143 0.0047

Uranus 74503-07-30 02:10 G 28932931.46 28932931.59 28932931.73 0.0143 0.0072

Uranus 74503-10-26 07:27 G 28933019.70 28933019.81 28933019.93 0.0143 0.0098

Uranus 74504-01-22 12:58 G 28933107.96 28933108.04 28933108.12 0.0143 0.0123

Jupiter 74504-03-16 15:22 G 28933162.01 28933162.14 28933162.27 0.0540 0.0266

Earth 74505-04-05 17:46 G 28933547.12 28933547.24 28933547.35 0.2629 0.1284

Moon 74505-04-05 18:00 G 28933547.14 28933547.25 28933547.36 0.2623 0.1316 *

Mars 74508-07-08 03:07 G 28934736.56 28934736.63 28934736.69 0.1755 0.1574

Mars 74509-07-30 04:05 G 28935123.55 28935123.67 28935123.80 0.1779 0.0200

Jupiter 74509-10-31 21:22 G 28935217.24 28935217.39 28935217.54 0.0488 0.0022

Saturn 74513-03-13 18:29 G 28936446.25 28936446.27 28936446.30 0.0276 0.0271

Saturn 74513-06-10 07:55 G 28936534.71 28936534.83 28936534.96 0.0277 0.0145

Saturn 74513-09-06 21:51 G 28936623.27 28936623.41 28936623.56 0.0277 0.0015

Saturn 74513-12-04 12:00 G 28936711.87 28936712.00 28936712.14 0.0277 0.0120

Saturn 74514-03-03 02:39 G 28936800.56 28936800.61 28936800.66 0.0278 0.0257

Earth 74515-10-10 00:43 G 28937386.43 28937386.53 28937386.62 0.2702 0.1765

Moon 74515-10-10 01:12 G 28937386.46 28937386.55 28937386.64 0.2696 0.1863 *

Jupiter 74516-01-03 15:51 G 28937472.01 28937472.16 28937472.31 0.0540 0.0048

Venus 74516-06-26 23:17 G 28937647.35 28937647.47 28937647.60 0.3708 0.0187

Moon 74518-04-08 15:22 G 28938298.01 28938298.14 28938298.27 0.2623 0.0147

Earth 74518-04-08 15:36 G 28938298.02 28938298.15 28938298.28 0.2630 0.0124 *

Mars 74518-12-20 12:29 G 28938553.92 28938554.02 28938554.13 0.1772 0.0924

Mars 74519-11-04 21:22 G 28938873.32 28938873.39 28938873.46 0.1735 0.1513

Jupiter 74521-08-20 00:29 G 28939527.38 28939527.52 28939527.66 0.0489 0.0179

Jupiter 74521-11-17 11:31 G 28939616.96 28939616.98 28939617.02 0.0487 0.0476

Earth 74522-10-02 11:31 G 28939935.94 28939935.98 28939936.03 0.2704 0.2494

Moon 74522-10-02 12:15 G 28939935.96 28939936.01 28939936.07 0.2709 0.2411 *

Saturn 74527-07-24 05:03 G 28941691.64 28941691.71 28941691.77 0.0282 0.0256

Saturn 74527-10-20 22:34 G 28941780.29 28941780.44 28941780.59 0.0282 0.0100

Jupiter 74527-10-22 16:48 G 28941782.05 28941782.20 28941782.35 0.0540 0.0167

Saturn 74528-01-17 15:36 G 28941869.00 28941869.15 28941869.31 0.0281 0.0052

Saturn 74528-04-15 08:10 G 28941957.74 28941957.84 28941957.96 0.0281 0.0199

Mars 74528-05-11 21:22 G 28941984.34 28941984.39 28941984.43 0.1766 0.1623

Venus 74529-02-05 16:05 G 28942254.07 28942254.17 28942254.27 0.3663 0.1933

Mars 74529-03-27 00:00 G 28942303.36 28942303.50 28942303.65 0.1741 0.0587

Mars 74530-04-17 12:00 G 28942689.93 28942690.00 28942690.07 0.1792 0.1445

Moon 74531-04-11 12:58 G 28943048.93 28943049.04 28943049.15 0.2628 0.1429

Earth 74531-04-11 13:55 G 28943048.98 28943049.08 28943049.18 0.2630 0.1572 *

Jupiter 74533-06-08 03:07 G 28943837.53 28943837.63 28943837.73 0.0489 0.0343

Jupiter 74533-09-05 13:55 G 28943926.97 28943927.08 28943927.20 0.0487 0.0306

Venus 74534-08-22 11:17 G 28944277.86 28944277.97 28944278.08 0.3664 0.1514

Earth 74535-10-05 10:05 G 28944686.80 28944686.92 28944687.04 0.2704 0.0930

Moon 74535-10-05 11:03 G 28944686.84 28944686.96 28944687.08 0.2706 0.0895 *

Earth 74538-04-04 01:27 G 28945598.51 28945598.56 28945598.61 0.2628 0.2375

Moon 74538-04-04 02:24 G 28945598.54 28945598.60 28945598.65 0.2625 0.2349 *

Mars 74538-08-17 02:10 G 28945733.44 28945733.59 28945733.73 0.1748 0.0414

Jupiter 74539-08-10 17:03 G 28946092.11 28946092.21 28946092.32 0.0539 0.0392

Mars 74539-09-07 19:55 G 28946120.22 28946120.33 28946120.45 0.1786 0.0663

Jupiter 74539-11-08 14:24 G 28946182.07 28946182.10 28946182.14 0.0541 0.0520

Saturn 74542-10-28 08:53 G 28947266.76 28947266.87 28947266.97 0.0277 0.0189

Saturn 74543-01-24 22:34 G 28947355.30 28947355.44 28947355.59 0.0277 0.0060

Saturn 74543-04-23 12:43 G 28947443.88 28947444.03 28947444.17 0.0277 0.0073

Saturn 74543-07-21 03:07 G 28947532.53 28947532.63 28947532.73 0.0278 0.0210

Uranus 74544-08-31 06:43 G 28947939.72 28947939.78 28947939.86 0.0135 0.0119

Uranus 74544-11-27 11:31 G 28948027.88 28948027.98 28948028.10 0.0135 0.0097

Uranus 74545-02-23 16:19 G 28948116.06 28948116.18 28948116.32 0.0135 0.0076

Uranus 74545-05-22 21:07 G 28948204.24 28948204.38 28948204.53 0.0135 0.0054

Jupiter 74545-06-24 16:48 G 28948237.06 28948237.20 28948237.35 0.0488 0.0146

Uranus 74545-08-19 01:55 G 28948292.43 28948292.58 28948292.73 0.0135 0.0033

Uranus 74545-11-15 06:29 G 28948380.62 28948380.77 28948380.93 0.0135 0.0012

Uranus 74546-02-11 11:17 G 28948468.81 28948468.97 28948469.12 0.0135 0.0010

Uranus 74546-05-10 15:36 G 28948557.01 28948557.15 28948557.31 0.0135 0.0031

Uranus 74546-08-06 20:24 G 28948645.20 28948645.35 28948645.49 0.0135 0.0052

Uranus 74546-11-03 00:43 G 28948733.41 28948733.53 28948733.67 0.0135 0.0073

Uranus 74547-01-30 05:03 G 28948821.61 28948821.71 28948821.84 0.0135 0.0094

Uranus 74547-04-28 09:36 G 28948909.83 28948909.90 28948909.99 0.0135 0.0114

Uranus 74547-07-25 14:10 G 28948998.08 28948998.09 28948998.12 0.0135 0.0134

Mars 74548-01-07 03:51 G 28949163.57 28949163.66 28949163.74 0.1755 0.1436

Earth 74548-10-07 08:10 G 28949437.72 28949437.84 28949437.96 0.2703 0.0579

Moon 74548-10-07 09:07 G 28949437.75 28949437.88 28949438.00 0.2699 0.0757 *

Mars 74549-01-28 04:19 G 28949550.55 28949550.68 28949550.80 0.1779 0.0102

Earth 74551-04-06 23:03 G 28950349.34 28950349.46 28950349.58 0.2629 0.1017

Moon 74551-04-06 23:17 G 28950349.35 28950349.47 28950349.59 0.2622 0.0920 *

Jupiter 74551-08-27 13:55 G 28950491.95 28950492.08 28950492.21 0.0540 0.0277

Saturn 74557-03-09 00:29 G 28952512.38 28952512.52 28952512.66 0.0283 0.0131

Jupiter 74557-04-12 19:55 G 28952547.18 28952547.33 28952547.48 0.0489 0.0014

Saturn 74557-06-05 17:46 G 28952601.08 28952601.24 28952601.40 0.0282 0.0022

Saturn 74557-09-02 10:34 G 28952689.81 28952689.94 28952690.06 0.0282 0.0171

Mars 74558-06-20 12:43 G 28952980.92 28952981.03 28952981.13 0.1772 0.0832

Mars 74559-05-05 21:51 G 28953300.36 28953300.41 28953300.46 0.1735 0.1632

Earth 74561-10-10 06:00 G 28954188.67 28954188.75 28954188.83 0.2702 0.2037

Moon 74561-10-10 06:15 G 28954188.68 28954188.76 28954188.84 0.2696 0.1996 *

Jupiter 74563-06-15 14:10 G 28954801.93 28954802.09 28954802.24 0.0540 0.0051

Moon 74564-04-08 20:39 G 28955100.23 28955100.36 28955100.49 0.2624 0.0279

Earth 74564-04-08 21:07 G 28955100.25 28955100.38 28955100.51 0.2630 0.0397 *

Venus 74567-07-19 00:43 G 28956296.44 28956296.53 28956296.62 0.3709 0.2576

Mars 74567-11-10 21:22 G 28956411.33 28956411.39 28956411.45 0.1766 0.1535

Mars 74568-09-25 00:29 G 28956730.38 28956730.52 28956730.65 0.1741 0.0691

Earth 74568-10-02 17:03 G 28956738.14 28956738.21 28956738.28 0.2704 0.2195

Moon 74568-10-02 17:46 G 28956738.16 28956738.24 28956738.32 0.2709 0.2113 *

Jupiter 74569-01-29 23:03 G 28956857.32 28956857.46 28956857.60 0.0489 0.0170

Neptune 74569-03-26 10:48 G 28956912.90 28956912.95 28956913.01 0.0090 0.0084

Jupiter 74569-04-29 10:19 G 28956946.92 28956946.93 28956946.94 0.0487 0.0486

Neptune 74569-06-22 12:58 G 28957000.96 28957001.04 28957001.14 0.0090 0.0075

Neptune 74569-09-18 15:22 G 28957089.04 28957089.14 28957089.25 0.0090 0.0066

Mars 74569-10-16 12:00 G 28957116.94 28957117.00 28957117.07 0.1792 0.1538

Neptune 74569-12-15 17:31 G 28957177.12 28957177.23 28957177.36 0.0090 0.0057

Neptune 74570-03-13 19:55 G 28957265.20 28957265.33 28957265.47 0.0090 0.0048

Neptune 74570-06-09 22:05 G 28957353.29 28957353.42 28957353.57 0.0090 0.0039

Neptune 74570-09-06 00:29 G 28957441.37 28957441.52 28957441.67 0.0090 0.0030

Neptune 74570-12-03 02:39 G 28957529.46 28957529.61 28957529.77 0.0090 0.0021

Neptune 74571-03-01 05:03 G 28957617.55 28957617.71 28957617.86 0.0090 0.0012

Neptune 74571-05-28 07:12 G 28957705.64 28957705.80 28957705.96 0.0090 0.0003

Neptune 74571-08-24 09:22 G 28957793.73 28957793.89 28957794.05 0.0090 0.0006

Neptune 74571-11-20 11:31 G 28957881.83 28957881.98 28957882.14 0.0090 0.0015

Neptune 74572-02-16 13:41 G 28957969.92 28957970.07 28957970.22 0.0090 0.0024

Saturn 74572-03-16 10:34 G 28957998.86 28957998.94 28957999.03 0.0276 0.0224

Neptune 74572-05-14 15:36 G 28958058.02 28958058.15 28958058.31 0.0090 0.0033

Saturn 74572-06-13 00:15 G 28958087.38 28958087.51 28958087.65 0.0277 0.0096

Neptune 74572-08-10 18:00 G 28958146.11 28958146.25 28958146.39 0.0090 0.0041

Saturn 74572-09-09 14:10 G 28958175.95 28958176.09 28958176.24 0.0277 0.0037

Neptune 74572-11-06 19:55 G 28958234.21 28958234.33 28958234.47 0.0090 0.0050

Saturn 74572-12-07 04:34 G 28958264.57 28958264.69 28958264.81 0.0278 0.0171

Venus 74573-01-31 22:19 G 28958320.32 28958320.43 28958320.54 0.3707 0.1678

Neptune 74573-02-02 22:05 G 28958322.31 28958322.42 28958322.55 0.0090 0.0058

Neptune 74573-05-02 00:15 G 28958410.41 28958410.51 28958410.62 0.0090 0.0067

Neptune 74573-07-29 02:10 G 28958498.52 28958498.59 28958498.69 0.0090 0.0076

Neptune 74573-10-25 04:34 G 28958586.64 28958586.69 28958586.74 0.0090 0.0084

Jupiter 74575-04-03 14:24 G 28959111.96 28959112.10 28959112.25 0.0540 0.0174

Moon 74577-04-11 18:15 G 28959851.17 28959851.26 28959851.36 0.2628 0.1798

Earth 74577-04-11 19:27 G 28959851.22 28959851.31 28959851.40 0.2630 0.1857 *

Mars 74578-02-15 02:39 G 28960160.46 28960160.61 28960160.77 0.1748 0.0282

Mars 74579-03-08 20:10 G 28960547.22 28960547.34 28960547.45 0.1785 0.0753

Jupiter 74580-11-18 02:10 G 28961167.48 28961167.59 28961167.70 0.0489 0.0325

Jupiter 74581-02-15 13:12 G 28961256.94 28961257.05 28961257.16 0.0487 0.0324

Earth 74581-10-05 15:22 G 28961489.02 28961489.14 28961489.27 0.2704 0.0648

Moon 74581-10-05 16:19 G 28961489.06 28961489.18 28961489.31 0.2704 0.0504 *

Earth 74584-04-04 06:43 G 28962400.71 28962400.78 28962400.85 0.2628 0.2121

Moon 74584-04-04 07:27 G 28962400.73 28962400.81 28962400.89 0.2625 0.1994 *

Uranus 74585-06-16 11:31 G 28962838.96 28962838.98 28962839.00 0.0143 0.0142

Venus 74585-09-12 14:24 G 28962926.98 28962927.10 28962927.21 0.3663 0.0673

Uranus 74585-09-12 16:34 G 28962927.10 28962927.19 28962927.27 0.0143 0.0118 *

Uranus 74585-12-09 21:22 G 28963015.28 28963015.39 28963015.51 0.0143 0.0094

Uranus 74586-03-08 02:24 G 28963103.47 28963103.60 28963103.74 0.0143 0.0069

Uranus 74586-06-04 07:41 G 28963191.67 28963191.82 28963191.97 0.0143 0.0045

Saturn 74586-07-26 23:17 G 28963244.35 28963244.47 28963244.59 0.0282 0.0190

Uranus 74586-08-31 12:43 G 28963279.88 28963280.03 28963280.19 0.0143 0.0020

Saturn 74586-10-23 16:34 G 28963333.03 28963333.19 28963333.35 0.0282 0.0037

Uranus 74586-11-27 18:00 G 28963368.10 28963368.25 28963368.41 0.0143 0.0005

Saturn 74587-01-20 09:36 G 28963421.75 28963421.90 28963422.04 0.0281 0.0114

Jupiter 74587-01-20 15:07 G 28963422.03 28963422.13 28963422.24 0.0539 0.0390 *

Uranus 74587-02-23 23:17 G 28963456.32 28963456.47 28963456.62 0.0143 0.0030

Saturn 74587-04-19 01:55 G 28963510.53 28963510.58 28963510.65 0.0281 0.0259

Jupiter 74587-04-20 12:43 G 28963512.00 28963512.03 28963512.06 0.0541 0.0524

Uranus 74587-05-23 04:34 G 28963544.54 28963544.69 28963544.83 0.0143 0.0055

Mars 74587-07-08 04:19 G 28963590.58 28963590.68 28963590.78 0.1755 0.1310

Uranus 74587-08-19 09:36 G 28963632.78 28963632.90 28963633.04 0.0143 0.0081

Uranus 74587-11-15 15:07 G 28963721.03 28963721.13 28963721.24 0.0143 0.0106

Uranus 74588-02-11 20:24 G 28963809.30 28963809.35 28963809.42 0.0143 0.0132

Mars 74588-07-29 04:05 G 28963977.55 28963977.67 28963977.80 0.1779 0.0034

Venus 74591-03-29 09:36 G 28964950.83 28964950.90 28964950.98 0.3664 0.2822

Jupiter 74592-09-06 05:03 G 28965477.70 28965477.71 28965477.73 0.0490 0.0486

Jupiter 74592-12-04 15:36 G 28965567.01 28965567.15 28965567.30 0.0488 0.0158

Earth 74594-10-08 13:27 G 28966239.95 28966240.06 28966240.18 0.2703 0.0867

Moon 74594-10-08 14:24 G 28966239.98 28966240.10 28966240.22 0.2699 0.0871 *

Earth 74597-04-07 04:34 G 28967151.56 28967151.69 28967151.81 0.2629 0.0753

Moon 74597-04-07 04:34 G 28967151.57 28967151.69 28967151.82 0.2622 0.0806 *

Mars 74597-12-19 12:43 G 28967407.92 28967408.03 28967408.14 0.1772 0.0741

Jupiter 74599-02-06 13:27 G 28967821.94 28967822.06 28967822.19 0.0541 0.0308

Saturn 74601-08-04 10:48 G 28968730.94 28968730.95 28968730.99 0.0276 0.0272

Saturn 74601-11-01 00:29 G 28968819.40 28968819.52 28968819.65 0.0277 0.0145

Saturn 74602-01-28 14:24 G 28968907.95 28968908.10 28968908.25 0.0277 0.0014

Saturn 74602-04-27 04:34 G 28968996.56 28968996.69 28968996.83 0.0277 0.0120

Saturn 74602-07-24 19:12 G 28969085.24 28969085.30 28969085.35 0.0278 0.0257

Pluto 74602-12-16 00:15 G 28969229.50 28969229.51 28969229.54 0.0064 0.0063

Pluto 74603-03-14 00:43 G 28969317.47 28969317.53 28969317.64 0.0064 0.0053

Pluto 74603-06-10 01:41 G 28969405.47 28969405.57 28969405.71 0.0064 0.0042

Pluto 74603-09-06 02:39 G 28969493.48 28969493.61 28969493.76 0.0064 0.0031

Pluto 74603-12-03 03:36 G 28969581.50 28969581.65 28969581.80 0.0064 0.0021

Pluto 74604-02-29 04:34 G 28969669.53 28969669.69 28969669.84 0.0064 0.0010

Pluto 74604-05-27 05:17 G 28969757.56 28969757.72 28969757.88 0.0064 0.0001

Pluto 74604-08-23 06:00 G 28969845.60 28969845.75 28969845.91 0.0064 0.0012

Jupiter 74604-09-23 18:43 G 28969877.13 28969877.28 28969877.43 0.0488 0.0005

Pluto 74604-11-19 06:58 G 28969933.64 28969933.79 28969933.94 0.0065 0.0023

Pluto 74605-02-15 07:41 G 28970021.69 28970021.82 28970021.96 0.0065 0.0034

Pluto 74605-05-14 08:24 G 28970109.75 28970109.85 28970109.97 0.0065 0.0045

Pluto 74605-08-10 09:07 G 28970197.81 28970197.88 28970197.97 0.0065 0.0056

Mars 74607-05-12 21:22 G 28970838.32 28970838.39 28970838.46 0.1766 0.1445

Earth 74607-10-12 11:17 G 28970990.91 28970990.97 28970991.03 0.2702 0.2309

Moon 74607-10-12 11:17 G 28970990.92 28970990.97 28970991.03 0.2695 0.2381 *

Mars 74608-03-27 00:58 G 28971157.41 28971157.54 28971157.68 0.1741 0.0818

Mars 74609-04-17 12:15 G 28971543.96 28971544.01 28971544.06 0.1792 0.1634

Moon 74610-04-11 01:55 G 28971902.45 28971902.58 28971902.70 0.2625 0.0681

Earth 74610-04-11 02:39 G 28971902.48 28971902.61 28971902.73 0.2630 0.0678 *

Jupiter 74610-11-26 12:58 G 28972131.88 28972132.04 28972132.19 0.0540 0.0066

Earth 74614-10-04 22:34 G 28973540.35 28973540.44 28973540.53 0.2704 0.1901

Moon 74614-10-04 23:17 G 28973540.38 28973540.47 28973540.56 0.2709 0.1841 *

Saturn 74615-12-15 00:43 G 28973976.43 28973976.53 28973976.62 0.0283 0.0226

Saturn 74616-03-12 18:15 G 28974065.10 28974065.26 28974065.42 0.0283 0.0070

Saturn 74616-06-09 11:17 G 28974153.82 28974153.97 28974154.13 0.0282 0.0082

Jupiter 74616-07-12 21:51 G 28974187.27 28974187.41 28974187.55 0.0489 0.0159

Saturn 74616-09-06 03:51 G 28974242.58 28974242.66 28974242.76 0.0282 0.0229

Mars 74617-08-17 03:07 G 28974587.48 28974587.63 28974587.78 0.1748 0.0164

Mars 74618-09-07 20:10 G 28974974.23 28974974.34 28974974.44 0.1785 0.0842

Jupiter 74622-09-14 12:58 G 28976441.89 28976442.04 28976442.18 0.0539 0.0166

Moon 74623-04-13 23:46 G 28976653.41 28976653.49 28976653.58 0.2628 0.1966

Earth 74623-04-14 00:58 G 28976653.46 28976653.54 28976653.61 0.2630 0.2143 *

Venus 74624-02-23 23:46 G 28976969.37 28976969.49 28976969.61 0.3708 0.1014

Mars 74627-01-07 04:48 G 28978017.59 28978017.70 28978017.81 0.1755 0.1184

Earth 74627-10-07 20:53 G 28978291.25 28978291.37 28978291.50 0.2704 0.0352

Moon 74627-10-07 21:51 G 28978291.29 28978291.41 28978291.54 0.2702 0.0263 *

Mars 74628-01-29 04:19 G 28978404.56 28978404.68 28978404.80 0.1779 0.0082

Jupiter 74628-05-01 00:58 G 28978497.43 28978497.54 28978497.65 0.0489 0.0314

Uranus 74628-06-25 09:22 G 28978552.87 28978552.89 28978552.91 0.0135 0.0133

Jupiter 74628-07-29 11:46 G 28978586.89 28978586.99 28978587.10 0.0488 0.0337

Uranus 74628-09-21 14:10 G 28978641.00 28978641.09 28978641.18 0.0135 0.0111

Uranus 74628-12-18 18:43 G 28978729.17 28978729.28 28978729.41 0.0135 0.0090

Uranus 74629-03-16 23:46 G 28978817.35 28978817.49 28978817.63 0.0135 0.0068

Uranus 74629-06-13 04:19 G 28978905.54 28978905.68 28978905.84 0.0135 0.0047

Venus 74629-09-08 21:07 G 28978993.32 28978993.38 28978993.45 0.3707 0.3175

Uranus 74629-09-09 09:07 G 28978993.73 28978993.88 28978994.04 0.0135 0.0025

Uranus 74629-12-06 13:55 G 28979081.92 28979082.08 28979082.23 0.0135 0.0005

Uranus 74630-03-04 18:29 G 28979170.11 28979170.27 28979170.43 0.0135 0.0017

Earth 74630-04-06 12:00 G 28979202.91 28979203.00 28979203.09 0.2628 0.1859

Moon 74630-04-06 12:43 G 28979202.94 28979203.03 28979203.12 0.2623 0.1809 *

Uranus 74630-05-31 23:03 G 28979258.31 28979258.46 28979258.61 0.0135 0.0038

Uranus 74630-08-28 03:22 G 28979346.51 28979346.64 28979346.79 0.0135 0.0059

Uranus 74630-11-24 08:10 G 28979434.71 28979434.84 28979434.96 0.0135 0.0079

Uranus 74631-02-20 12:29 G 28979522.92 28979523.02 28979523.13 0.0135 0.0100

Saturn 74631-03-21 02:24 G 28979551.50 28979551.60 28979551.72 0.0276 0.0178

Uranus 74631-05-19 17:03 G 28979611.15 28979611.21 28979611.28 0.0135 0.0120

Saturn 74631-06-17 16:19 G 28979640.03 28979640.18 28979640.32 0.0277 0.0049

Saturn 74631-09-14 06:15 G 28979728.62 28979728.76 28979728.91 0.0277 0.0084

Saturn 74631-12-11 20:39 G 28979817.27 28979817.36 28979817.45 0.0278 0.0219

Jupiter 74634-07-03 12:58 G 28980751.94 28980752.04 28980752.15 0.0539 0.0394

Jupiter 74634-10-01 10:34 G 28980841.90 28980841.94 28980841.98 0.0541 0.0520

Venus 74636-10-04 17:46 G 28981576.16 28981576.24 28981576.31 0.3662 0.2793

Mars 74637-06-20 12:43 G 28981834.91 28981835.03 28981835.14 0.1772 0.0660

Jupiter 74640-02-18 04:19 G 28982807.64 28982807.68 28982807.72 0.0490 0.0467

Jupiter 74640-05-17 14:53 G 28982896.98 28982897.12 28982897.26 0.0488 0.0177

Earth 74640-10-09 18:58 G 28983042.17 28983042.29 28983042.40 0.2703 0.1141

Moon 74640-10-09 19:41 G 28983042.21 28983042.32 28983042.43 0.2698 0.1280 *

Venus 74642-04-20 12:43 G 28983599.91 28983600.03 28983600.15 0.3663 0.0597

Moon 74643-04-09 09:51 G 28983953.78 28983953.91 28983954.04 0.2622 0.0416

Earth 74643-04-09 09:51 G 28983953.78 28983953.91 28983954.04 0.2629 0.0480 *

Saturn 74645-07-30 17:03 G 28984797.07 28984797.21 28984797.36 0.0282 0.0129

Saturn 74645-10-27 10:19 G 28984885.77 28984885.93 28984886.09 0.0282 0.0024

Saturn 74646-01-24 03:07 G 28984974.51 28984974.63 28984974.76 0.0281 0.0172

Jupiter 74646-07-20 11:46 G 28985151.87 28985151.99 28985152.11 0.0541 0.0313

Mars 74646-11-10 21:22 G 28985265.31 28985265.39 28985265.46 0.1766 0.1365

Mars 74647-09-26 01:27 G 28985584.44 28985584.56 28985584.69 0.1741 0.0941

Mars 74648-10-16 12:00 G 28985970.97 28985971.00 28985971.04 0.1792 0.1713

Neptune 74651-12-08 09:36 G 28987118.87 28987118.90 28987118.97 0.0088 0.0083

Neptune 74652-03-05 11:46 G 28987206.92 28987206.99 28987207.08 0.0088 0.0075

Jupiter 74652-03-05 17:31 G 28987207.08 28987207.23 28987207.38 0.0488 0.0013 *

Neptune 74652-06-01 13:41 G 28987294.99 28987295.07 28987295.18 0.0088 0.0067

Neptune 74652-08-28 15:36 G 28987383.05 28987383.15 28987383.28 0.0088 0.0059

Neptune 74652-11-24 18:00 G 28987471.12 28987471.25 28987471.38 0.0088 0.0050

Neptune 74653-02-20 19:55 G 28987559.20 28987559.33 28987559.47 0.0088 0.0042

Neptune 74653-05-19 22:05 G 28987647.28 28987647.42 28987647.56 0.0088 0.0034

Neptune 74653-08-16 00:00 G 28987735.35 28987735.50 28987735.65 0.0088 0.0026

Moon 74653-10-12 16:34 G 28987793.14 28987793.19 28987793.24 0.2695 0.2486

Earth 74653-10-12 16:34 G 28987793.16 28987793.19 28987793.23 0.2702 0.2580 *

Neptune 74653-11-12 01:55 G 28987823.44 28987823.58 28987823.74 0.0088 0.0018

Neptune 74654-02-08 04:05 G 28987911.52 28987911.67 28987911.83 0.0088 0.0009

Neptune 74654-05-07 06:15 G 28987999.60 28987999.76 28987999.92 0.0088 0.0001

Neptune 74654-08-03 08:24 G 28988087.69 28988087.85 28988088.00 0.0088 0.0008

Neptune 74654-10-30 10:19 G 28988175.78 28988175.93 28988176.09 0.0088 0.0016

Neptune 74655-01-26 12:29 G 28988263.87 28988264.02 28988264.17 0.0088 0.0024

Neptune 74655-04-24 14:24 G 28988351.96 28988352.10 28988352.26 0.0088 0.0033

Neptune 74655-07-21 16:48 G 28988440.06 28988440.20 28988440.34 0.0088 0.0041

Neptune 74655-10-17 18:43 G 28988528.16 28988528.28 28988528.42 0.0088 0.0050

Neptune 74656-01-13 20:53 G 28988616.26 28988616.37 28988616.49 0.0088 0.0058

Neptune 74656-04-10 22:48 G 28988704.36 28988704.45 28988704.57 0.0088 0.0067

Moon 74656-04-11 07:12 G 28988704.67 28988704.80 28988704.92 0.2626 0.0789

Earth 74656-04-11 07:55 G 28988704.71 28988704.83 28988704.95 0.2630 0.0950 *

Neptune 74656-07-08 01:12 G 28988792.47 28988792.55 28988792.64 0.0088 0.0075

Neptune 74656-10-04 03:07 G 28988880.60 28988880.63 28988880.69 0.0088 0.0084

Mars 74657-02-15 03:36 G 28989014.50 28989014.65 28989014.81 0.1748 0.0061

Mars 74658-03-08 20:10 G 28989401.23 28989401.34 28989401.45 0.1786 0.0932

Jupiter 74658-05-08 12:29 G 28989461.87 28989462.02 28989462.17 0.0540 0.0096

Saturn 74660-08-07 02:39 G 28990283.53 28990283.61 28990283.69 0.0276 0.0228

Earth 74660-10-05 04:05 G 28990342.56 28990342.67 28990342.77 0.2704 0.1609

Moon 74660-10-05 04:48 G 28990342.60 28990342.70 28990342.81 0.2708 0.1474 *

Saturn 74660-11-03 16:19 G 28990372.04 28990372.18 28990372.31 0.0277 0.0101

Saturn 74661-01-31 06:15 G 28990460.61 28990460.76 28990460.90 0.0277 0.0031

Saturn 74661-04-29 20:24 G 28990549.23 28990549.35 28990549.47 0.0277 0.0165

Jupiter 74663-12-23 20:39 G 28991517.22 28991517.36 28991517.50 0.0489 0.0145

Mars 74666-07-08 05:17 G 28992444.60 28992444.72 28992444.85 0.1755 0.1053

Mars 74667-07-30 04:19 G 28992831.56 28992831.68 28992831.80 0.1779 0.0170

Moon 74669-04-14 05:17 G 28993455.67 28993455.72 28993455.77 0.2630 0.2396

Earth 74669-04-14 06:29 G 28993455.72 28993455.77 28993455.81 0.2631 0.2432 *

Uranus 74669-07-07 18:29 G 28993540.23 28993540.27 28993540.33 0.0144 0.0135

Uranus 74669-10-03 23:31 G 28993628.40 28993628.48 28993628.59 0.0143 0.0111

Uranus 74669-12-31 04:48 G 28993716.58 28993716.70 28993716.82 0.0143 0.0086

Jupiter 74670-02-24 11:46 G 28993771.85 28993771.99 28993772.14 0.0539 0.0148

Uranus 74670-03-29 09:51 G 28993804.77 28993804.91 28993805.05 0.0143 0.0061

Uranus 74670-06-25 14:53 G 28993892.98 28993893.12 28993893.27 0.0143 0.0037

Uranus 74670-09-21 20:10 G 28993981.18 28993981.34 28993981.50 0.0143 0.0012

Uranus 74670-12-19 01:27 G 28994069.40 28994069.56 28994069.71 0.0143 0.0013

Uranus 74671-03-17 06:29 G 28994157.62 28994157.77 28994157.93 0.0143 0.0039

Uranus 74671-06-13 11:46 G 28994245.85 28994245.99 28994246.14 0.0143 0.0064

Uranus 74671-09-09 17:03 G 28994334.09 28994334.21 28994334.34 0.0143 0.0089

Uranus 74671-12-06 22:19 G 28994422.35 28994422.43 28994422.53 0.0143 0.0115

Uranus 74672-03-04 03:51 G 28994510.64 28994510.66 28994510.69 0.0143 0.0140

Earth 74673-10-08 02:24 G 28995093.47 28995093.60 28995093.72 0.2703 0.0098

Moon 74673-10-08 03:22 G 28995093.51 28995093.64 28995093.77 0.2701 0.0038 *

Saturn 74674-12-17 18:00 G 28995529.12 28995529.25 28995529.38 0.0283 0.0169

Saturn 74675-03-16 11:31 G 28995617.82 28995617.98 28995618.14 0.0283 0.0015

Saturn 74675-06-13 04:19 G 28995706.55 28995706.68 28995706.82 0.0282 0.0137

Jupiter 74675-10-11 23:46 G 28995827.37 28995827.49 28995827.60 0.0490 0.0303

Jupiter 74676-01-09 10:34 G 28995916.84 28995916.94 28995917.05 0.0488 0.0350

Earth 74676-04-06 17:31 G 28996005.12 28996005.23 28996005.33 0.2629 0.1601

Moon 74676-04-06 18:00 G 28996005.14 28996005.25 28996005.35 0.2622 0.1554 *

Mars 74676-12-19 12:43 G 28996261.91 28996262.03 28996262.14 0.1772 0.0573

Venus 74680-09-29 22:48 G 28997642.33 28997642.45 28997642.57 0.3708 0.0545

Jupiter 74681-12-13 11:46 G 28998081.88 28998081.99 28998082.10 0.0538 0.0381

Jupiter 74682-03-13 09:07 G 28998171.86 28998171.88 28998171.91 0.0541 0.0530

Mars 74686-05-11 21:22 G 28999692.31 28999692.39 28999692.47 0.1765 0.1273

Earth 74686-10-11 00:15 G 28999844.41 28999844.51 28999844.62 0.2703 0.1421

Moon 74686-10-11 00:58 G 28999844.43 28999844.54 28999844.64 0.2697 0.1439 *

Mars 74687-03-27 01:55 G 29000011.46 29000011.58 29000011.70 0.1741 0.1048

Jupiter 74687-07-31 02:53 G 29000137.57 29000137.62 29000137.67 0.0490 0.0456

Jupiter 74687-10-28 13:41 G 29000226.93 29000227.07 29000227.20 0.0488 0.0190

Moon 74689-04-09 15:07 G 29000756.00 29000756.13 29000756.26 0.2623 0.0256

Earth 74689-04-09 15:22 G 29000756.01 29000756.14 29000756.27 0.2629 0.0216 *

Saturn 74689-12-25 04:48 G 29001015.66 29001015.70 29001015.75 0.0276 0.0260

Saturn 74690-03-23 18:29 G 29001104.14 29001104.27 29001104.40 0.0276 0.0133

Saturn 74690-06-20 08:10 G 29001192.69 29001192.84 29001192.99 0.0277 0.0004

Saturn 74690-09-16 22:19 G 29001281.30 29001281.43 29001281.56 0.0277 0.0130

Saturn 74690-12-14 12:43 G 29001369.99 29001370.03 29001370.07 0.0277 0.0266

Pluto 74692-05-26 05:03 G 29001898.63 29001898.71 29001898.79 0.0081 0.0068

Pluto 74692-08-22 06:43 G 29001986.65 29001986.78 29001986.90 0.0080 0.0047

Pluto 74692-11-18 08:24 G 29002074.70 29002074.85 29002075.00 0.0080 0.0026

Pluto 74693-02-14 10:05 G 29002162.76 29002162.92 29002163.08 0.0080 0.0005

Venus 74693-05-11 15:51 G 29002249.06 29002249.16 29002249.27 0.3662 0.1556

Pluto 74693-05-13 11:46 G 29002250.83 29002250.99 29002251.14 0.0080 0.0016

Pluto 74693-08-09 13:12 G 29002338.92 29002339.05 29002339.20 0.0080 0.0037

Pluto 74693-11-05 14:53 G 29002427.02 29002427.12 29002427.23 0.0080 0.0058

Jupiter 74693-12-30 09:36 G 29002481.78 29002481.90 29002482.03 0.0540 0.0312

Pluto 74694-02-01 16:19 G 29002515.17 29002515.18 29002515.21 0.0080 0.0079

Mars 74696-08-16 04:19 G 29003441.53 29003441.68 29003441.83 0.1748 0.0092

Mars 74697-09-06 20:10 G 29003828.24 29003828.34 29003828.44 0.1785 0.1017

Venus 74698-11-25 11:03 G 29004272.86 29004272.96 29004273.06 0.3664 0.1886

Jupiter 74699-08-16 16:34 G 29004537.05 29004537.19 29004537.34 0.0488 0.0034

Moon 74702-04-13 12:29 G 29005506.91 29005507.02 29005507.14 0.2626 0.1209

Earth 74702-04-13 13:27 G 29005506.94 29005507.06 29005507.17 0.2630 0.1231 *

Saturn 74704-05-06 16:48 G 29006261.11 29006261.20 29006261.30 0.0283 0.0227

Saturn 74704-08-03 10:34 G 29006349.78 29006349.94 29006350.09 0.0282 0.0072

Saturn 74704-10-31 03:36 G 29006438.50 29006438.65 29006438.80 0.0282 0.0080

Saturn 74705-01-27 20:10 G 29006527.26 29006527.34 29006527.44 0.0281 0.0228

Jupiter 74705-10-19 10:48 G 29006791.80 29006791.95 29006792.10 0.0540 0.0101

Mars 74706-01-07 06:00 G 29006871.62 29006871.75 29006871.88 0.1755 0.0927

Earth 74706-10-07 09:22 G 29007144.78 29007144.89 29007145.01 0.2704 0.1312

Moon 74706-10-07 10:19 G 29007144.82 29007144.93 29007145.05 0.2706 0.1280 *

Mars 74707-01-29 04:05 G 29007258.55 29007258.67 29007258.80 0.1779 0.0255

Jupiter 74711-06-05 19:27 G 29008847.17 29008847.31 29008847.46 0.0489 0.0131

Uranus 74712-07-16 16:19 G 29009254.14 29009254.18 29009254.24 0.0135 0.0126

Uranus 74712-10-12 21:22 G 29009342.29 29009342.39 29009342.49 0.0135 0.0104

Uranus 74713-01-09 01:55 G 29009430.47 29009430.58 29009430.72 0.0135 0.0083

Uranus 74713-04-07 06:58 G 29009518.65 29009518.79 29009518.93 0.0135 0.0061

Uranus 74713-07-04 11:31 G 29009606.84 29009606.98 29009607.14 0.0135 0.0040

Uranus 74713-09-30 16:19 G 29009695.03 29009695.18 29009695.34 0.0135 0.0018

Uranus 74713-12-27 21:07 G 29009783.22 29009783.38 29009783.53 0.0135 0.0004

Uranus 74714-03-26 01:41 G 29009871.41 29009871.57 29009871.72 0.0135 0.0024

Uranus 74714-06-22 06:15 G 29009959.61 29009959.76 29009959.91 0.0135 0.0045

Uranus 74714-09-18 10:48 G 29010047.81 29010047.95 29010048.09 0.0135 0.0066

Uranus 74714-12-15 15:07 G 29010136.02 29010136.13 29010136.26 0.0135 0.0087

Uranus 74715-03-13 19:27 G 29010224.23 29010224.31 29010224.42 0.0135 0.0108

Moon 74715-04-16 10:48 G 29010257.92 29010257.95 29010257.98 0.2632 0.2531

Uranus 74715-06-10 00:00 G 29010312.46 29010312.50 29010312.56 0.0135 0.0128

Mars 74716-06-20 12:43 G 29010688.91 29010689.03 29010689.15 0.1772 0.0476

Jupiter 74717-08-07 11:17 G 29011101.82 29011101.97 29011102.12 0.0540 0.0119

Saturn 74719-08-11 18:00 G 29011836.15 29011836.25 29011836.37 0.0276 0.0187

Earth 74719-10-10 07:41 G 29011895.70 29011895.82 29011895.95 0.2703 0.0226

Moon 74719-10-10 08:39 G 29011895.74 29011895.86 29011895.99 0.2701 0.0363 *

Saturn 74719-11-08 07:55 G 29011924.68 29011924.83 29011924.97 0.0277 0.0058

Saturn 74720-02-04 21:51 G 29012013.27 29012013.41 29012013.55 0.0277 0.0074

Saturn 74720-05-03 12:00 G 29012101.91 29012102.00 29012102.10 0.0277 0.0210

Earth 74722-04-08 22:48 G 29012807.34 29012807.45 29012807.56 0.2629 0.1334

Moon 74722-04-08 23:17 G 29012807.35 29012807.47 29012807.58 0.2622 0.1258 *

Jupiter 74723-03-24 22:34 G 29013157.33 29013157.44 29013157.56 0.0489 0.0287

Jupiter 74723-06-22 09:36 G 29013246.80 29013246.90 29013247.00 0.0488 0.0364

Mars 74725-11-10 21:22 G 29014119.30 29014119.39 29014119.48 0.1765 0.1187

Mars 74726-09-26 02:24 G 29014438.49 29014438.60 29014438.72 0.1741 0.1172

Jupiter 74729-05-26 10:48 G 29015411.83 29015411.95 29015412.06 0.0538 0.0359

Venus 74731-10-23 00:15 G 29016291.41 29016291.51 29016291.61 0.3709 0.2203

Earth 74732-10-12 05:46 G 29016646.64 29016646.74 29016646.83 0.2702 0.1700

Moon 74732-10-12 06:00 G 29016646.65 29016646.75 29016646.85 0.2696 0.1736 *

Saturn 74733-09-23 17:03 G 29016993.18 29016993.21 29016993.26 0.0284 0.0273

Neptune 74733-09-26 07:12 G 29016995.79 29016995.80 29016995.83 0.0090 0.0089

Saturn 74733-12-21 11:03 G 29017081.81 29017081.96 29017082.11 0.0283 0.0114

Neptune 74733-12-23 09:22 G 29017083.83 29017083.89 29017083.98 0.0090 0.0080

Saturn 74734-03-20 04:19 G 29017170.53 29017170.68 29017170.84 0.0283 0.0041

Neptune 74734-03-21 11:46 G 29017171.90 29017171.99 29017172.10 0.0090 0.0070

Saturn 74734-06-16 21:22 G 29017259.27 29017259.39 29017259.51 0.0282 0.0189

Neptune 74734-06-17 14:24 G 29017259.98 29017260.10 29017260.21 0.0090 0.0061

Neptune 74734-09-13 16:34 G 29017348.06 29017348.19 29017348.32 0.0090 0.0052

Neptune 74734-12-10 18:58 G 29017436.15 29017436.29 29017436.43 0.0090 0.0043

Jupiter 74735-01-11 01:41 G 29017467.51 29017467.57 29017467.63 0.0490 0.0445

Neptune 74735-03-08 21:07 G 29017524.23 29017524.38 29017524.53 0.0090 0.0034

Jupiter 74735-04-10 12:29 G 29017556.88 29017557.02 29017557.15 0.0488 0.0202

Moon 74735-04-11 20:10 G 29017558.21 29017558.34 29017558.48 0.2623 0.0073

Earth 74735-04-11 20:39 G 29017558.23 29017558.36 29017558.49 0.2629 0.0065 *

Neptune 74735-06-04 23:17 G 29017612.32 29017612.47 29017612.63 0.0090 0.0025

Neptune 74735-09-01 01:27 G 29017700.41 29017700.56 29017700.72 0.0090 0.0017

Neptune 74735-11-28 03:51 G 29017788.50 29017788.66 29017788.82 0.0090 0.0007

Mars 74736-02-16 04:48 G 29017868.54 29017868.70 29017868.85 0.1748 0.0211

Neptune 74736-02-24 06:00 G 29017876.59 29017876.75 29017876.91 0.0090 0.0002

Neptune 74736-05-22 08:10 G 29017964.69 29017964.84 29017965.00 0.0090 0.0011

Neptune 74736-08-18 10:19 G 29018052.78 29018052.93 29018053.09 0.0090 0.0020

Neptune 74736-11-14 12:29 G 29018140.88 29018141.02 29018141.18 0.0090 0.0028

Neptune 74737-02-10 14:39 G 29018228.97 29018229.11 29018229.26 0.0090 0.0037

Mars 74737-03-08 20:10 G 29018255.24 29018255.34 29018255.44 0.1785 0.1107

Venus 74737-05-07 21:51 G 29018315.31 29018315.41 29018315.51 0.3708 0.2066

Neptune 74737-05-09 16:48 G 29018317.07 29018317.20 29018317.34 0.0090 0.0046

Neptune 74737-08-05 18:43 G 29018405.17 29018405.28 29018405.42 0.0090 0.0055

Neptune 74737-11-01 21:07 G 29018493.27 29018493.38 29018493.49 0.0090 0.0063

Neptune 74738-01-28 23:03 G 29018581.38 29018581.46 29018581.56 0.0090 0.0072

Neptune 74738-04-27 01:12 G 29018669.49 29018669.55 29018669.63 0.0090 0.0080

Neptune 74738-07-24 03:07 G 29018757.63 29018757.63 29018757.67 0.0090 0.0089

Earth 74739-10-05 16:19 G 29019196.15 29019196.18 29019196.21 0.2704 0.2595

Moon 74739-10-05 16:48 G 29019196.18 29019196.20 29019196.23 0.2711 0.2632 *

Jupiter 74741-06-12 08:24 G 29019811.74 29019811.85 29019811.98 0.0540 0.0327

Venus 74744-06-02 19:12 G 29020898.29 29020898.30 29020898.32 0.3661 0.3635

Mars 74745-07-08 06:15 G 29021298.63 29021298.76 29021298.90 0.1755 0.0810

Mars 74746-07-30 04:19 G 29021685.56 29021685.68 29021685.80 0.1779 0.0343

Jupiter 74747-01-27 15:22 G 29021866.99 29021867.14 29021867.29 0.0489 0.0044

Moon 74748-04-13 18:00 G 29022309.14 29022309.25 29022309.36 0.2626 0.1359

Earth 74748-04-13 18:58 G 29022309.18 29022309.29 29022309.39 0.2630 0.1516 *

Saturn 74748-12-28 20:39 G 29022568.27 29022568.36 29022568.45 0.0276 0.0216

Saturn 74749-03-27 10:05 G 29022656.79 29022656.92 29022657.06 0.0276 0.0089

Saturn 74749-06-24 00:00 G 29022745.36 29022745.50 29022745.65 0.0277 0.0042

Saturn 74749-09-20 14:10 G 29022833.98 29022834.09 29022834.21 0.0277 0.0176

Venus 74749-12-17 14:10 G 29022921.98 29022922.09 29022922.21 0.3663 0.0314

Earth 74752-10-07 14:53 G 29023947.00 29023947.12 29023947.24 0.2704 0.1020

Moon 74752-10-07 15:51 G 29023947.04 29023947.16 29023947.29 0.2705 0.0826 *

Jupiter 74753-03-31 08:53 G 29024121.72 29024121.87 29024122.02 0.0540 0.0102

Uranus 74753-07-29 01:41 G 29024241.52 29024241.57 29024241.65 0.0144 0.0128

Uranus 74753-10-25 06:58 G 29024329.69 29024329.79 29024329.90 0.0144 0.0103

Uranus 74754-01-21 12:00 G 29024417.87 29024418.00 29024418.13 0.0143 0.0079

Uranus 74754-04-19 17:03 G 29024506.07 29024506.21 29024506.36 0.0143 0.0054

Uranus 74754-07-16 22:19 G 29024594.28 29024594.43 29024594.58 0.0143 0.0029

Uranus 74754-10-13 03:22 G 29024682.49 29024682.64 29024682.80 0.0143 0.0005

Uranus 74755-01-09 08:39 G 29024770.70 29024770.86 29024771.01 0.0143 0.0021

Earth 74755-04-07 06:29 G 29024858.73 29024858.77 29024858.82 0.2628 0.2428

Moon 74755-04-07 07:12 G 29024858.74 29024858.80 29024858.87 0.2624 0.2270 *

Uranus 74755-04-07 13:41 G 29024858.93 29024859.07 29024859.23 0.0143 0.0046

Venus 74755-07-03 09:22 G 29024945.84 29024945.89 29024945.95 0.3664 0.3175

Uranus 74755-07-04 19:12 G 29024947.16 29024947.30 29024947.43 0.0143 0.0071

Uranus 74755-10-01 00:15 G 29025035.41 29025035.51 29025035.64 0.0143 0.0097

Mars 74755-12-20 12:29 G 29025115.91 29025116.02 29025116.14 0.1772 0.0404

Uranus 74755-12-28 05:46 G 29025123.66 29025123.74 29025123.82 0.0143 0.0122

Jupiter 74758-11-15 18:29 G 29026177.13 29026177.27 29026177.42 0.0489 0.0114

Saturn 74763-05-10 10:05 G 29027813.79 29027813.92 29027814.05 0.0283 0.0171

Saturn 74763-08-07 03:36 G 29027902.49 29027902.65 29027902.81 0.0282 0.0017

Saturn 74763-11-03 20:39 G 29027991.22 29027991.36 29027991.50 0.0282 0.0135

Saturn 74764-01-31 13:12 G 29028080.05 29028080.05 29028080.06 0.0281 0.0281

Jupiter 74765-01-17 09:36 G 29028431.75 29028431.90 29028432.05 0.0539 0.0115

Mars 74765-05-11 21:22 G 29028546.30 29028546.39 29028546.48 0.1766 0.1102

Earth 74765-10-10 13:12 G 29028697.92 29028698.05 29028698.17 0.2703 0.0510

Moon 74765-10-10 13:55 G 29028697.96 29028698.08 29028698.21 0.2701 0.0567 *

Mars 74766-03-27 03:07 G 29028865.53 29028865.63 29028865.73 0.1741 0.1294

Earth 74768-04-09 04:05 G 29029609.55 29029609.67 29029609.79 0.2629 0.1072

Moon 74768-04-09 04:34 G 29029609.57 29029609.69 29029609.81 0.2623 0.1073 *

Jupiter 74770-09-03 21:36 G 29030487.28 29030487.40 29030487.52 0.0489 0.0273

Jupiter 74770-12-02 08:24 G 29030576.76 29030576.85 29030576.95 0.0488 0.0378

Mars 74775-08-17 05:17 G 29032295.57 29032295.72 29032295.87 0.1748 0.0327

Mars 74776-09-06 20:10 G 29032682.25 29032682.34 29032682.43 0.1785 0.1197

Jupiter 74776-11-05 10:05 G 29032741.80 29032741.92 29032742.04 0.0539 0.0334

Saturn 74778-05-17 20:24 G 29033300.32 29033300.35 29033300.39 0.0276 0.0267

Saturn 74778-08-14 09:51 G 29033388.79 29033388.91 29033389.04 0.0276 0.0142

Earth 74778-10-13 11:03 G 29033448.87 29033448.96 29033449.04 0.2702 0.1975

Moon 74778-10-13 11:17 G 29033448.89 29033448.97 29033449.05 0.2695 0.2010 *

Saturn 74778-11-10 23:46 G 29033477.34 29033477.49 29033477.63 0.0277 0.0014

Saturn 74779-02-07 13:41 G 29033565.94 29033566.07 29033566.21 0.0277 0.0120

Saturn 74779-05-07 04:05 G 29033654.61 29033654.67 29033654.73 0.0277 0.0256

Moon 74781-04-12 01:27 G 29034360.43 29034360.56 29034360.69 0.2623 0.0308

Earth 74781-04-12 02:10 G 29034360.46 29034360.59 29034360.72 0.2629 0.0344 *

Jupiter 74782-06-23 00:43 G 29034797.46 29034797.53 29034797.60 0.0490 0.0428

Jupiter 74782-09-20 11:17 G 29034886.84 29034886.97 29034887.11 0.0488 0.0219

Mars 74785-01-06 06:58 G 29035725.65 29035725.79 29035725.93 0.1755 0.0675

Earth 74785-10-05 21:51 G 29035998.34 29035998.41 29035998.47 0.2704 0.2301

Moon 74785-10-05 22:34 G 29035998.36 29035998.44 29035998.51 0.2709 0.2167 *

Mars 74786-01-28 04:19 G 29036112.56 29036112.68 29036112.80 0.1779 0.0432

Venus 74788-05-28 23:17 G 29036964.35 29036964.47 29036964.59 0.3709 0.0636

Jupiter 74788-11-22 07:41 G 29037141.70 29037141.82 29037141.93 0.0540 0.0347

Saturn 74792-09-26 10:19 G 29038545.83 29038545.93 29038546.03 0.0284 0.0218

Saturn 74792-12-24 04:05 G 29038634.51 29038634.67 29038634.83 0.0283 0.0061

Saturn 74793-03-22 21:22 G 29038723.24 29038723.39 29038723.54 0.0283 0.0092

Saturn 74793-06-19 13:55 G 29038812.01 29038812.08 29038812.17 0.0283 0.0241

Venus 74793-12-12 20:53 G 29038988.34 29038988.37 29038988.39 0.3707 0.3572

Moon 74794-04-14 23:17 G 29039111.37 29039111.47 29039111.57 0.2628 0.1723

Earth 74794-04-15 00:15 G 29039111.42 29039111.51 29039111.61 0.2630 0.1794 *

Mars 74794-05-29 08:10 G 29039155.82 29039155.84 29039155.86 0.1762 0.1732

Jupiter 74794-07-09 14:10 G 29039196.94 29039197.09 29039197.24 0.0489 0.0055

Mars 74795-06-20 12:43 G 29039542.91 29039543.03 29039543.15 0.1772 0.0306

Uranus 74796-08-05 23:46 G 29039955.43 29039955.49 29039955.58 0.0135 0.0118

Uranus 74796-11-02 04:48 G 29040043.59 29040043.70 29040043.82 0.0135 0.0096

Uranus 74797-01-29 09:36 G 29040131.77 29040131.90 29040132.04 0.0135 0.0074

Uranus 74797-04-27 14:24 G 29040219.96 29040220.10 29040220.25 0.0135 0.0053

Uranus 74797-07-24 19:12 G 29040308.15 29040308.30 29040308.46 0.0135 0.0031

Uranus 74797-10-21 00:00 G 29040396.34 29040396.50 29040396.66 0.0135 0.0010

Uranus 74798-01-17 04:34 G 29040484.53 29040484.69 29040484.85 0.0135 0.0011

Uranus 74798-04-15 09:07 G 29040572.73 29040572.88 29040573.04 0.0135 0.0033

Uranus 74798-07-12 13:55 G 29040660.93 29040661.08 29040661.22 0.0135 0.0053

Uranus 74798-10-08 18:15 G 29040749.14 29040749.26 29040749.40 0.0135 0.0074

Earth 74798-10-08 20:24 G 29040749.23 29040749.35 29040749.47 0.2704 0.0727 *

Moon 74798-10-08 21:22 G 29040749.27 29040749.39 29040749.52 0.2704 0.0704 *

Uranus 74799-01-04 22:48 G 29040837.35 29040837.45 29040837.57 0.0135 0.0095

Uranus 74799-04-03 03:22 G 29040925.56 29040925.64 29040925.72 0.0135 0.0115

Jupiter 74800-09-10 07:41 G 29041451.67 29041451.82 29041451.97 0.0539 0.0119

Venus 74801-01-07 17:31 G 29041571.14 29041571.23 29041571.32 0.3662 0.2431

Earth 74801-04-07 12:00 G 29041660.92 29041661.00 29041661.07 0.2628 0.2166

Moon 74801-04-07 12:43 G 29041660.96 29041661.03 29041661.10 0.2623 0.2162 *

Mars 74804-11-09 21:22 G 29042973.29 29042973.39 29042973.49 0.1765 0.1018

Mars 74805-09-25 03:22 G 29043292.55 29043292.64 29043292.73 0.1741 0.1396

Jupiter 74806-04-27 17:17 G 29043507.07 29043507.22 29043507.36 0.0489 0.0104

Venus 74806-07-24 12:29 G 29043594.91 29043595.02 29043595.14 0.3663 0.0958

Saturn 74808-01-01 12:29 G 29044120.91 29044121.02 29044121.14 0.0276 0.0170

Saturn 74808-03-30 02:10 G 29044209.45 29044209.59 29044209.74 0.0276 0.0043

Saturn 74808-06-26 16:05 G 29044298.03 29044298.17 29044298.31 0.0276 0.0089

Saturn 74808-09-23 06:15 G 29044386.68 29044386.76 29044386.86 0.0277 0.0224

Earth 74811-10-11 18:29 G 29045500.15 29045500.27 29045500.39 0.2703 0.0787

Moon 74811-10-11 19:12 G 29045500.18 29045500.30 29045500.42 0.2699 0.0932 *

Jupiter 74812-06-29 07:41 G 29045761.67 29045761.82 29045761.97 0.0539 0.0112

Mars 74814-04-02 06:00 G 29046403.73 29046403.75 29046403.78 0.1759 0.1704

Earth 74814-04-10 09:36 G 29046411.77 29046411.90 29046412.02 0.2629 0.0805

Moon 74814-04-10 09:36 G 29046411.78 29046411.90 29046412.03 0.2623 0.0729 *

Mars 74815-02-15 05:46 G 29046722.60 29046722.74 29046722.89 0.1748 0.0459

Mars 74816-03-07 20:10 G 29047109.26 29047109.34 29047109.43 0.1785 0.1282

Neptune 74816-06-08 06:29 G 29047201.77 29047201.77 29047201.81 0.0088 0.0087

Neptune 74816-09-04 08:39 G 29047289.81 29047289.86 29047289.94 0.0088 0.0079

Neptune 74816-12-01 10:34 G 29047377.86 29047377.94 29047378.04 0.0088 0.0071

Neptune 74817-02-27 12:29 G 29047465.93 29047466.02 29047466.14 0.0088 0.0063

Neptune 74817-05-26 14:39 G 29047554.00 29047554.11 29047554.24 0.0088 0.0055

Neptune 74817-08-22 16:34 G 29047642.07 29047642.19 29047642.33 0.0088 0.0047

Neptune 74817-11-18 18:29 G 29047730.15 29047730.27 29047730.42 0.0088 0.0039

Jupiter 74818-02-13 20:24 G 29047817.23 29047817.35 29047817.48 0.0490 0.0258

Neptune 74818-02-14 20:53 G 29047818.22 29047818.37 29047818.52 0.0088 0.0030

Neptune 74818-05-13 22:48 G 29047906.30 29047906.45 29047906.60 0.0088 0.0022

Jupiter 74818-05-14 07:27 G 29047906.72 29047906.81 29047906.89 0.0488 0.0395

Neptune 74818-08-10 00:58 G 29047994.38 29047994.54 29047994.69 0.0088 0.0014

Neptune 74818-11-06 02:53 G 29048082.47 29048082.62 29048082.78 0.0088 0.0006

Neptune 74819-02-02 05:03 G 29048170.55 29048170.71 29048170.87 0.0088 0.0003

Neptune 74819-05-01 06:58 G 29048258.64 29048258.79 29048258.95 0.0088 0.0012

Neptune 74819-07-28 09:07 G 29048346.73 29048346.88 29048347.04 0.0088 0.0020

Neptune 74819-10-24 11:17 G 29048434.82 29048434.97 29048435.12 0.0088 0.0028

Neptune 74820-01-20 13:12 G 29048522.91 29048523.05 29048523.20 0.0088 0.0037

Neptune 74820-04-17 15:22 G 29048611.01 29048611.14 29048611.28 0.0088 0.0045

Neptune 74820-07-14 17:17 G 29048699.11 29048699.22 29048699.36 0.0088 0.0054

Neptune 74820-10-10 19:27 G 29048787.21 29048787.31 29048787.43 0.0088 0.0062

Neptune 74821-01-06 21:22 G 29048875.32 29048875.39 29048875.51 0.0088 0.0071

Neptune 74821-04-04 23:46 G 29048963.43 29048963.49 29048963.57 0.0088 0.0079

Neptune 74821-07-02 01:55 G 29049051.58 29049051.58 29049051.60 0.0088 0.0088

Saturn 74822-02-13 09:36 G 29049277.86 29049277.90 29049277.95 0.0283 0.0271

Saturn 74822-05-13 03:36 G 29049366.50 29049366.65 29049366.80 0.0283 0.0113

Saturn 74822-08-09 20:53 G 29049455.22 29049455.37 29049455.53 0.0282 0.0041

Saturn 74822-11-06 13:55 G 29049543.96 29049544.08 29049544.20 0.0282 0.0190

Jupiter 74824-04-17 08:10 G 29050071.72 29050071.84 29050071.96 0.0539 0.0332

Mars 74824-07-07 07:27 G 29050152.67 29050152.81 29050152.96 0.1755 0.0554

Earth 74824-10-13 16:19 G 29050251.11 29050251.18 29050251.25 0.2702 0.2248

Moon 74824-10-13 16:34 G 29050251.12 29050251.19 29050251.26 0.2695 0.2236 *

Mars 74825-07-29 04:19 G 29050539.56 29050539.68 29050539.80 0.1779 0.0513

Moon 74827-04-13 06:58 G 29051162.66 29051162.79 29051162.91 0.2623 0.0519

Earth 74827-04-13 07:27 G 29051162.68 29051162.81 29051162.94 0.2629 0.0611 *

Jupiter 74829-12-02 23:31 G 29052127.41 29052127.48 29052127.56 0.0490 0.0416

Jupiter 74830-03-02 10:05 G 29052216.79 29052216.92 29052217.05 0.0488 0.0231

Earth 74831-10-07 03:22 G 29052800.55 29052800.64 29052800.72 0.2704 0.2000

Moon 74831-10-07 04:05 G 29052800.59 29052800.67 29052800.76 0.2708 0.1957 *

Mars 74833-11-27 08:53 G 29053582.81 29053582.87 29053582.93 0.1762 0.1596

Mars 74834-12-19 12:43 G 29053969.91 29053970.03 29053970.15 0.1772 0.0219

Jupiter 74836-05-04 06:43 G 29054471.67 29054471.78 29054471.89 0.0540 0.0370

Saturn 74837-05-20 12:29 G 29054852.94 29054853.02 29054853.11 0.0276 0.0222

Uranus 74837-05-22 04:19 G 29054854.68 29054854.68 29054854.69 0.0144 0.0143

Saturn 74837-08-17 01:55 G 29054941.45 29054941.58 29054941.72 0.0276 0.0095

Uranus 74837-08-18 09:07 G 29054942.81 29054942.88 29054942.98 0.0144 0.0120

Saturn 74837-11-13 15:51 G 29055030.01 29055030.16 29055030.31 0.0276 0.0035

Uranus 74837-11-14 14:24 G 29055030.99 29055031.10 29055031.21 0.0144 0.0095

Saturn 74838-02-10 06:00 G 29055118.63 29055118.75 29055118.87 0.0277 0.0168

Uranus 74838-02-10 19:27 G 29055119.18 29055119.31 29055119.44 0.0143 0.0070

Uranus 74838-05-10 00:29 G 29055207.38 29055207.52 29055207.67 0.0143 0.0046

Uranus 74838-08-06 05:46 G 29055295.58 29055295.74 29055295.89 0.0143 0.0021

Uranus 74838-11-02 10:48 G 29055383.80 29055383.95 29055384.11 0.0143 0.0004

Uranus 74839-01-29 16:05 G 29055472.02 29055472.17 29055472.32 0.0143 0.0029

Uranus 74839-04-27 21:22 G 29055560.24 29055560.39 29055560.53 0.0143 0.0054

Venus 74839-06-20 00:29 G 29055613.48 29055613.52 29055613.56 0.3710 0.3448

Uranus 74839-07-25 02:24 G 29055648.48 29055648.60 29055648.74 0.0143 0.0080

Uranus 74839-10-21 07:55 G 29055736.73 29055736.83 29055736.94 0.0143 0.0105

Uranus 74840-01-17 13:12 G 29055824.99 29055825.05 29055825.12 0.0143 0.0131

Moon 74840-04-15 04:34 G 29055913.61 29055913.69 29055913.78 0.2630 0.1971

Earth 74840-04-15 05:46 G 29055913.66 29055913.74 29055913.82 0.2630 0.2075 *

Jupiter 74841-12-19 13:12 G 29056526.90 29056527.05 29056527.20 0.0489 0.0072

Mars 74844-05-10 21:22 G 29057400.29 29057400.39 29057400.49 0.1765 0.0928

Earth 74844-10-09 01:41 G 29057551.45 29057551.57 29057551.70 0.2704 0.0445

Moon 74844-10-09 02:53 G 29057551.49 29057551.62 29057551.74 0.2704 0.0257 *

Venus 74845-01-02 22:19 G 29057637.31 29057637.43 29057637.55 0.3709 0.0918

Mars 74845-03-26 04:05 G 29057719.59 29057719.67 29057719.74 0.1741 0.1520

Earth 74847-04-08 17:17 G 29058463.13 29058463.22 29058463.30 0.2628 0.1908

Moon 74847-04-08 18:00 G 29058463.15 29058463.25 29058463.34 0.2624 0.1749 *

Jupiter 74848-02-21 06:43 G 29058781.63 29058781.78 29058781.93 0.0539 0.0140

Pluto 74848-08-15 14:39 G 29058958.09 29058958.11 29058958.17 0.0064 0.0062

Pluto 74848-11-11 15:36 G 29059046.07 29059046.15 29059046.26 0.0064 0.0051

Pluto 74849-02-07 16:34 G 29059134.07 29059134.19 29059134.32 0.0064 0.0040

Pluto 74849-05-06 17:31 G 29059222.09 29059222.23 29059222.37 0.0064 0.0030

Pluto 74849-08-02 18:15 G 29059310.11 29059310.26 29059310.42 0.0064 0.0019

Pluto 74849-10-29 19:12 G 29059398.14 29059398.30 29059398.46 0.0064 0.0008

Pluto 74850-01-25 19:55 G 29059486.18 29059486.33 29059486.49 0.0064 0.0003

Pluto 74850-04-23 20:53 G 29059574.21 29059574.37 29059574.52 0.0064 0.0014

Pluto 74850-07-20 21:36 G 29059662.26 29059662.40 29059662.55 0.0064 0.0025

Pluto 74850-10-16 22:19 G 29059750.31 29059750.43 29059750.57 0.0065 0.0036

Pluto 74851-01-12 23:03 G 29059838.36 29059838.46 29059838.58 0.0065 0.0047

Pluto 74851-04-10 23:46 G 29059926.44 29059926.49 29059926.58 0.0065 0.0058

Saturn 74851-09-30 03:22 G 29060098.51 29060098.64 29060098.77 0.0284 0.0163

Saturn 74851-12-27 20:53 G 29060187.21 29060187.37 29060187.54 0.0283 0.0011

Saturn 74852-03-25 13:55 G 29060275.95 29060276.08 29060276.23 0.0283 0.0146

Mars 74853-10-01 06:15 G 29060830.71 29060830.76 29060830.80 0.1759 0.1616

Jupiter 74853-10-07 15:51 G 29060837.01 29060837.16 29060837.31 0.0490 0.0093

Mars 74854-08-16 06:15 G 29061149.61 29061149.76 29061149.90 0.1748 0.0565

Mars 74855-09-06 20:10 G 29061536.27 29061536.34 29061536.42 0.1785 0.1371

Venus 74857-08-14 15:51 G 29062244.05 29062244.16 29062244.27 0.3662 0.1196

Earth 74857-10-11 23:46 G 29062302.38 29062302.49 29062302.61 0.2703 0.1072

Moon 74857-10-12 00:29 G 29062302.41 29062302.52 29062302.64 0.2697 0.1053 *

Jupiter 74859-12-10 06:43 G 29063091.63 29063091.78 29063091.93 0.0538 0.0092

Moon 74860-04-10 14:53 G 29063213.99 29063214.12 29063214.25 0.2622 0.0610

Earth 74860-04-10 14:53 G 29063214.00 29063214.12 29063214.25 0.2629 0.0531 *

Venus 74863-02-28 10:48 G 29064267.86 29064267.95 29064268.04 0.3663 0.2229

Mars 74864-01-06 07:55 G 29064579.69 29064579.83 29064579.98 0.1755 0.0433

Mars 74865-01-27 04:19 G 29064966.57 29064966.68 29064966.80 0.1779 0.0603

Jupiter 74865-07-26 18:58 G 29065147.16 29065147.29 29065147.42 0.0490 0.0250

Jupiter 74865-10-24 05:46 G 29065236.67 29065236.74 29065236.83 0.0488 0.0404

Saturn 74866-10-07 15:22 G 29065585.09 29065585.14 29065585.21 0.0275 0.0247

Saturn 74867-01-04 04:48 G 29065673.57 29065673.70 29065673.84 0.0276 0.0122

Saturn 74867-04-02 18:43 G 29065762.13 29065762.28 29065762.42 0.0276 0.0011

Saturn 74867-06-30 08:39 G 29065850.73 29065850.86 29065850.99 0.0276 0.0140

Saturn 74867-09-26 23:03 G 29065939.45 29065939.46 29065939.47 0.0277 0.0275

Earth 74870-10-14 21:36 G 29067053.36 29067053.40 29067053.45 0.2702 0.2525

Moon 74870-10-14 21:51 G 29067053.37 29067053.41 29067053.44 0.2696 0.2569 *

Jupiter 74871-09-28 06:15 G 29067401.64 29067401.76 29067401.89 0.0538 0.0329

Moon 74873-04-13 12:15 G 29067964.89 29067965.01 29067965.13 0.2624 0.0873

Earth 74873-04-13 12:58 G 29067964.92 29067965.04 29067965.16 0.2629 0.0892 *

Mars 74873-05-28 09:22 G 29068009.81 29068009.89 29068009.98 0.1762 0.1462

Mars 74874-06-19 12:43 G 29068396.90 29068397.03 29068397.15 0.1772 0.0142

Jupiter 74877-05-14 22:19 G 29069457.35 29069457.43 29069457.51 0.0490 0.0403

Jupiter 74877-08-12 08:53 G 29069546.74 29069546.87 29069547.00 0.0488 0.0245

Earth 74877-10-07 08:53 G 29069602.77 29069602.87 29069602.97 0.2704 0.1703

Moon 74877-10-07 09:51 G 29069602.80 29069602.91 29069603.01 0.2708 0.1573 *

Uranus 74880-05-30 02:39 G 29070568.58 29070568.61 29070568.65 0.0135 0.0131

Uranus 74880-08-26 07:27 G 29070656.72 29070656.81 29070656.91 0.0135 0.0109

Uranus 74880-11-22 12:15 G 29070744.90 29070745.01 29070745.14 0.0135 0.0087

Saturn 74881-02-16 03:07 G 29070830.53 29070830.63 29070830.75 0.0283 0.0213

Uranus 74881-02-18 17:03 G 29070833.08 29070833.21 29070833.36 0.0135 0.0066

Saturn 74881-05-15 21:07 G 29070919.22 29070919.38 29070919.54 0.0283 0.0055

Uranus 74881-05-17 21:51 G 29070921.27 29070921.41 29070921.57 0.0135 0.0044

Saturn 74881-08-12 14:24 G 29071007.95 29071008.10 29071008.25 0.0283 0.0097

Uranus 74881-08-14 02:39 G 29071009.46 29071009.61 29071009.77 0.0135 0.0023

Saturn 74881-11-09 07:12 G 29071096.72 29071096.80 29071096.88 0.0282 0.0245

Uranus 74881-11-10 07:27 G 29071097.65 29071097.81 29071097.97 0.0135 0.0002

Uranus 74882-02-06 12:00 G 29071185.85 29071186.00 29071186.16 0.0135 0.0020

Uranus 74882-05-05 16:34 G 29071274.05 29071274.19 29071274.35 0.0135 0.0041

Uranus 74882-08-01 21:22 G 29071362.25 29071362.39 29071362.53 0.0135 0.0061

Uranus 74882-10-29 01:41 G 29071450.45 29071450.57 29071450.70 0.0135 0.0082

Uranus 74883-01-25 06:15 G 29071538.67 29071538.76 29071538.87 0.0135 0.0103

Uranus 74883-04-23 10:48 G 29071626.89 29071626.95 29071627.02 0.0135 0.0123

Jupiter 74883-10-15 04:48 G 29071801.59 29071801.70 29071801.81 0.0540 0.0369

Mars 74883-11-09 21:22 G 29071827.28 29071827.39 29071827.49 0.1765 0.0848

Mars 74884-09-24 04:34 G 29072146.64 29072146.69 29072146.74 0.1741 0.1636

Moon 74886-04-16 10:05 G 29072715.85 29072715.92 29072715.99 0.2630 0.2219

Earth 74886-04-16 11:17 G 29072715.91 29072715.97 29072716.02 0.2630 0.2362 *

Jupiter 74889-05-31 11:46 G 29073856.84 29073856.99 29073857.14 0.0489 0.0081

Earth 74890-10-10 07:12 G 29074353.67 29074353.80 29074353.93 0.2704 0.0149

Moon 74890-10-10 08:10 G 29074353.71 29074353.84 29074353.97 0.2703 0.0114 *

Mars 74893-04-01 06:15 G 29075257.70 29075257.76 29075257.82 0.1759 0.1525

Earth 74893-04-08 22:34 G 29075265.34 29075265.44 29075265.54 0.2628 0.1640

Moon 74893-04-08 23:17 G 29075265.37 29075265.47 29075265.57 0.2623 0.1640 *

Mars 74894-02-14 06:43 G 29075576.64 29075576.78 29075576.92 0.1748 0.0688

Mars 74895-03-07 20:24 G 29075963.28 29075963.35 29075963.42 0.1785 0.1461

Jupiter 74895-08-03 05:31 G 29076111.59 29076111.73 29076111.88 0.0540 0.0157

Venus 74896-01-24 23:31 G 29076286.37 29076286.48 29076286.59 0.3710 0.1855

Saturn 74896-05-23 04:48 G 29076405.59 29076405.70 29076405.82 0.0276 0.0172

Saturn 74896-08-19 18:29 G 29076494.12 29076494.27 29076494.42 0.0276 0.0045

Saturn 74896-11-16 08:24 G 29076582.71 29076582.85 29076582.99 0.0276 0.0086

Saturn 74897-02-12 22:34 G 29076671.35 29076671.44 29076671.53 0.0277 0.0220

Neptune 74898-06-23 05:46 G 29077166.70 29077166.74 29077166.80 0.0090 0.0085

Neptune 74898-09-19 08:10 G 29077254.77 29077254.84 29077254.93 0.0090 0.0076

Neptune 74898-12-16 10:19 G 29077342.84 29077342.93 29077343.05 0.0090 0.0067

Neptune 74899-03-14 12:43 G 29077430.92 29077431.03 29077431.16 0.0090 0.0058

Neptune 74899-06-10 14:53 G 29077519.00 29077519.12 29077519.27 0.0090 0.0049

Neptune 74899-09-06 17:17 G 29077607.09 29077607.22 29077607.38 0.0090 0.0040

Neptune 74899-12-03 19:41 G 29077695.18 29077695.32 29077695.48 0.0090 0.0030

Neptune 74900-03-01 21:51 G 29077783.27 29077783.41 29077783.57 0.0090 0.0022

Neptune 74900-05-29 00:15 G 29077871.36 29077871.51 29077871.67 0.0090 0.0012

Neptune 74900-08-25 02:39 G 29077959.45 29077959.61 29077959.76 0.0090 0.0004

Neptune 74900-11-21 04:48 G 29078047.54 29078047.70 29078047.86 0.0090 0.0006

Neptune 74901-02-17 06:58 G 29078135.63 29078135.79 29078135.95 0.0090 0.0014

Jupiter 74901-03-20 14:53 G 29078166.97 29078167.12 29078167.26 0.0489 0.0077

Neptune 74901-05-16 08:53 G 29078223.73 29078223.87 29078224.03 0.0090 0.0024

Venus 74901-08-10 21:07 G 29078310.29 29078310.38 29078310.48 0.3708 0.2430

Neptune 74901-08-12 11:17 G 29078311.82 29078311.97 29078312.12 0.0090 0.0032

Neptune 74901-11-08 13:27 G 29078399.92 29078400.06 29078400.20 0.0090 0.0041

Neptune 74902-02-04 15:22 G 29078488.02 29078488.14 29078488.28 0.0090 0.0050

Neptune 74902-05-03 17:46 G 29078576.12 29078576.24 29078576.36 0.0090 0.0058

Neptune 74902-07-30 19:41 G 29078664.23 29078664.32 29078664.43 0.0090 0.0067

Neptune 74902-10-26 21:36 G 29078752.34 29078752.40 29078752.50 0.0090 0.0076

Neptune 74903-01-23 00:00 G 29078840.45 29078840.50 29078840.56 0.0090 0.0084

Mars 74903-07-08 08:39 G 29079006.71 29079006.86 29079007.01 0.1755 0.0307

Earth 74903-10-14 05:17 G 29079104.61 29079104.72 29079104.83 0.2703 0.1346

Moon 74903-10-14 05:46 G 29079104.64 29079104.74 29079104.85 0.2697 0.1493 *

Mars 74904-07-29 04:19 G 29079393.57 29079393.68 29079393.80 0.1778 0.0694

Moon 74906-04-12 20:10 G 29080016.21 29080016.34 29080016.47 0.2622 0.0206

Earth 74906-04-12 20:24 G 29080016.22 29080016.35 29080016.48 0.2629 0.0266 *

Jupiter 74907-05-23 05:31 G 29080421.58 29080421.73 29080421.89 0.0539 0.0075

Venus 74908-09-05 19:12 G 29080893.25 29080893.30 29080893.35 0.3661 0.3275

Saturn 74910-07-07 02:39 G 29081562.56 29081562.61 29081562.68 0.0284 0.0266

Saturn 74910-10-03 20:53 G 29081651.22 29081651.37 29081651.52 0.0284 0.0106

Saturn 74910-12-31 14:24 G 29081739.94 29081740.10 29081740.26 0.0283 0.0050

Saturn 74911-03-30 07:12 G 29081828.70 29081828.80 29081828.92 0.0283 0.0200

Mars 74912-11-27 09:51 G 29082436.81 29082436.91 29082437.01 0.1762 0.1347

Jupiter 74913-01-06 17:31 G 29082477.10 29082477.23 29082477.36 0.0490 0.0243

Jupiter 74913-04-06 04:19 G 29082566.61 29082566.68 29082566.76 0.0488 0.0412

Mars 74913-12-19 12:43 G 29082823.91 29082824.03 29082824.15 0.1772 0.0058

Venus 74914-03-22 14:10 G 29082916.97 29082917.09 29082917.20 0.3662 0.0102

Jupiter 74919-03-11 05:17 G 29084731.60 29084731.72 29084731.85 0.0538 0.0308

Moon 74919-04-15 17:31 G 29084767.11 29084767.23 29084767.35 0.2626 0.1018

Earth 74919-04-15 18:15 G 29084767.15 29084767.26 29084767.38 0.2630 0.1176 *

Venus 74919-10-06 09:07 G 29084940.85 29084940.88 29084940.91 0.3663 0.3520

Uranus 74921-06-12 11:46 G 29085555.95 29085555.99 29085556.05 0.0144 0.0135

Uranus 74921-09-08 16:48 G 29085644.11 29085644.20 29085644.30 0.0144 0.0111

Uranus 74921-12-05 21:51 G 29085732.29 29085732.41 29085732.54 0.0144 0.0086

Uranus 74922-03-04 03:07 G 29085820.49 29085820.63 29085820.77 0.0143 0.0062

Uranus 74922-05-31 08:10 G 29085908.69 29085908.84 29085908.99 0.0143 0.0037

Uranus 74922-08-27 13:12 G 29085996.90 29085997.05 29085997.21 0.0143 0.0013

Uranus 74922-11-23 18:29 G 29086085.11 29086085.27 29086085.42 0.0143 0.0013

Uranus 74923-02-19 23:31 G 29086173.34 29086173.48 29086173.64 0.0143 0.0039

Mars 74923-05-11 21:22 G 29086254.28 29086254.39 29086254.50 0.1765 0.0759

Uranus 74923-05-19 05:03 G 29086261.57 29086261.71 29086261.85 0.0143 0.0064

Uranus 74923-08-15 10:05 G 29086349.81 29086349.92 29086350.05 0.0143 0.0089

Earth 74923-10-09 14:10 G 29086404.99 29086405.09 29086405.20 0.2704 0.1407

Moon 74923-10-09 15:22 G 29086405.02 29086405.14 29086405.25 0.2707 0.1314 *

Uranus 74923-11-11 15:22 G 29086438.06 29086438.14 29086438.24 0.0143 0.0115

Uranus 74924-02-07 20:53 G 29086526.35 29086526.37 29086526.40 0.0143 0.0140

Jupiter 74924-10-25 20:39 G 29086787.28 29086787.36 29086787.44 0.0491 0.0399

Jupiter 74925-01-23 07:12 G 29086876.67 29086876.80 29086876.93 0.0489 0.0250

Saturn 74925-10-11 07:55 G 29087137.74 29087137.83 29087137.94 0.0275 0.0196

Saturn 74926-01-07 21:36 G 29087226.26 29087226.40 29087226.54 0.0276 0.0070

Saturn 74926-04-06 11:17 G 29087314.83 29087314.97 29087315.12 0.0276 0.0061

Saturn 74926-07-04 01:27 G 29087403.46 29087403.56 29087403.67 0.0276 0.0193

Jupiter 74931-03-28 02:53 G 29089131.51 29089131.62 29089131.73 0.0540 0.0370

Moon 74932-04-17 15:36 G 29089518.13 29089518.15 29089518.17 0.2630 0.2575

Mars 74932-10-01 06:00 G 29089684.69 29089684.75 29089684.82 0.1759 0.1452

Mars 74933-08-16 07:27 G 29090003.67 29090003.81 29090003.94 0.1748 0.0813

Mars 74934-09-06 20:24 G 29090390.29 29090390.35 29090390.41 0.1785 0.1543

Earth 74936-10-11 12:29 G 29091155.90 29091156.02 29091156.15 0.2704 0.0170

Moon 74936-10-11 13:27 G 29091155.94 29091156.06 29091156.19 0.2701 0.0289 *

Jupiter 74936-11-11 10:19 G 29091186.79 29091186.93 29091187.08 0.0489 0.0091

Pluto 74938-01-25 19:12 G 29091627.23 29091627.30 29091627.40 0.0081 0.0068

Pluto 74938-04-23 20:53 G 29091715.26 29091715.37 29091715.51 0.0080 0.0047

Pluto 74938-07-20 22:48 G 29091803.31 29091803.45 29091803.60 0.0080 0.0025

Pluto 74938-10-17 00:29 G 29091891.37 29091891.52 29091891.68 0.0080 0.0005

Pluto 74939-01-13 02:10 G 29091979.44 29091979.59 29091979.75 0.0080 0.0017

Pluto 74939-04-11 03:36 G 29092067.52 29092067.65 29092067.80 0.0080 0.0038

Earth 74939-04-11 03:51 G 29092067.55 29092067.66 29092067.77 0.2628 0.1384 *

Moon 74939-04-11 04:19 G 29092067.57 29092067.68 29092067.79 0.2623 0.1292 *

Pluto 74939-07-08 05:17 G 29092155.63 29092155.72 29092155.84 0.0080 0.0059

Pluto 74939-10-04 06:58 G 29092243.79 29092243.79 29092243.81 0.0080 0.0079

Saturn 74940-02-20 21:22 G 29092383.25 29092383.39 29092383.53 0.0283 0.0150

Saturn 74940-05-19 14:53 G 29092471.96 29092472.12 29092472.28 0.0283 0.0008

Saturn 74940-08-16 07:55 G 29092560.71 29092560.83 29092560.97 0.0283 0.0158

Mars 74943-01-06 09:07 G 29093433.73 29093433.88 29093434.03 0.1755 0.0183

Jupiter 74943-01-14 03:22 G 29093441.50 29093441.64 29093441.79 0.0540 0.0152

Mars 74944-01-28 04:19 G 29093820.57 29093820.68 29093820.79 0.1779 0.0771

Jupiter 74948-08-30 13:12 G 29095496.91 29095497.05 29095497.20 0.0489 0.0071

Earth 74949-10-14 10:34 G 29095906.84 29095906.94 29095907.04 0.2703 0.1633

Moon 74949-10-14 11:17 G 29095906.87 29095906.97 29095907.07 0.2697 0.1608 *

Moon 74952-04-13 01:27 G 29096818.43 29096818.56 29096818.69 0.2622 0.0092

Earth 74952-04-13 01:41 G 29096818.44 29096818.57 29096818.70 0.2629 0.0035 *

Mars 74952-05-28 10:34 G 29096863.83 29096863.94 29096864.05 0.1762 0.1217

Venus 74952-08-31 22:34 G 29096959.32 29096959.44 29096959.57 0.3709 0.0280

Mars 74953-06-19 12:43 G 29097250.91 29097251.03 29097251.16 0.1772 0.0062

Jupiter 74954-11-02 04:05 G 29097751.52 29097751.67 29097751.82 0.0539 0.0065

Saturn 74955-02-28 08:24 G 29097869.79 29097869.85 29097869.92 0.0275 0.0243

Saturn 74955-05-27 21:51 G 29097958.28 29097958.41 29097958.54 0.0276 0.0118

Saturn 74955-08-24 11:31 G 29098046.83 29098046.98 29098047.13 0.0276 0.0011

Saturn 74955-11-21 01:27 G 29098135.43 29098135.56 29098135.69 0.0276 0.0142

Moon 74956-10-06 21:36 G 29098456.37 29098456.40 29098456.44 0.2710 0.2576

Earth 74956-10-06 21:07 G 29098456.38 29098456.38 29098456.38 0.2705 0.2703 *

Jupiter 74960-06-18 16:19 G 29099807.05 29099807.18 29099807.31 0.0490 0.0228

Jupiter 74960-09-16 03:22 G 29099896.57 29099896.64 29099896.71 0.0488 0.0425

Mars 74962-11-09 21:22 G 29100681.28 29100681.39 29100681.50 0.1765 0.0676

Uranus 74964-06-20 10:19 G 29101269.87 29101269.93 29101270.00 0.0135 0.0122

Uranus 74964-09-16 15:07 G 29101358.03 29101358.13 29101358.24 0.0135 0.0100

Uranus 74964-12-13 20:10 G 29101446.21 29101446.34 29101446.47 0.0135 0.0078

Uranus 74965-03-12 00:43 G 29101534.39 29101534.53 29101534.68 0.0135 0.0057

Venus 74965-04-12 17:31 G 29101566.13 29101566.23 29101566.32 0.3661 0.2051

Moon 74965-04-15 22:48 G 29101569.34 29101569.45 29101569.56 0.2627 0.1432

Earth 74965-04-15 23:46 G 29101569.38 29101569.49 29101569.60 0.2630 0.1454 *

Uranus 74965-06-08 05:46 G 29101622.58 29101622.74 29101622.89 0.0135 0.0035

Uranus 74965-09-04 10:19 G 29101710.78 29101710.93 29101711.09 0.0135 0.0014

Uranus 74965-12-01 15:07 G 29101798.97 29101799.13 29101799.29 0.0135 0.0007

Uranus 74966-02-27 19:41 G 29101887.17 29101887.32 29101887.48 0.0135 0.0029

Uranus 74966-05-27 00:15 G 29101975.37 29101975.51 29101975.66 0.0135 0.0050

Jupiter 74966-08-21 04:05 G 29102061.54 29102061.67 29102061.80 0.0538 0.0293

Uranus 74966-08-23 05:03 G 29102063.58 29102063.71 29102063.84 0.0135 0.0070

Uranus 74966-11-19 09:22 G 29102151.79 29102151.89 29102152.01 0.0135 0.0091

Uranus 74967-02-15 13:55 G 29102240.00 29102240.08 29102240.17 0.0135 0.0112

Uranus 74967-05-14 18:29 G 29102328.25 29102328.27 29102328.30 0.0135 0.0132

Saturn 74969-07-09 20:39 G 29103115.25 29103115.36 29103115.48 0.0284 0.0204

Saturn 74969-10-06 14:39 G 29103203.95 29103204.11 29103204.27 0.0284 0.0045

Earth 74969-10-09 19:41 G 29103207.21 29103207.32 29103207.44 0.2704 0.1111

Moon 74969-10-09 20:39 G 29103207.25 29103207.36 29103207.48 0.2707 0.1016 *

Saturn 74970-01-03 07:55 G 29103292.69 29103292.83 29103292.98 0.0283 0.0108

Saturn 74970-04-02 00:43 G 29103381.47 29103381.53 29103381.60 0.0283 0.0257

Venus 74970-10-27 12:29 G 29103589.91 29103590.02 29103590.13 0.3662 0.1324

Mars 74972-04-01 06:15 G 29104111.68 29104111.76 29104111.83 0.1759 0.1362

Jupiter 74972-04-06 18:58 G 29104117.21 29104117.29 29104117.38 0.0491 0.0394

Earth 74972-04-08 11:46 G 29104118.95 29104118.99 29104119.03 0.2628 0.2465

Moon 74972-04-08 12:43 G 29104118.98 29104119.03 29104119.08 0.2625 0.2373 *

Jupiter 74972-07-05 05:31 G 29104206.61 29104206.73 29104206.86 0.0489 0.0256

Mars 74973-02-14 07:41 G 29104430.69 29104430.82 29104430.95 0.1748 0.0921

Mars 74974-03-07 20:24 G 29104817.30 29104817.35 29104817.40 0.1785 0.1631

Jupiter 74978-06-09 03:36 G 29106371.63 29106371.65 29106371.68 0.0537 0.0530

Jupiter 74978-09-07 01:41 G 29106461.47 29106461.57 29106461.68 0.0539 0.0390

Neptune 74981-03-06 05:31 G 29107372.69 29107372.73 29107372.78 0.0088 0.0083

Neptune 74981-06-02 07:12 G 29107460.74 29107460.80 29107460.89 0.0088 0.0076

Neptune 74981-08-29 09:07 G 29107548.80 29107548.88 29107548.99 0.0088 0.0068

Neptune 74981-11-25 11:03 G 29107636.87 29107636.96 29107637.09 0.0088 0.0060

Neptune 74982-02-21 13:27 G 29107724.94 29107725.06 29107725.19 0.0088 0.0051

Neptune 74982-05-20 15:22 G 29107813.01 29107813.14 29107813.28 0.0088 0.0043

Mars 74982-07-07 09:36 G 29107860.75 29107860.90 29107861.05 0.1755 0.0067

Neptune 74982-08-16 17:17 G 29107901.08 29107901.22 29107901.37 0.0088 0.0035

Earth 74982-10-12 18:00 G 29107958.13 29107958.25 29107958.38 0.2704 0.0429

Moon 74982-10-12 18:58 G 29107958.16 29107958.29 29107958.41 0.2700 0.0500 *

Neptune 74982-11-12 19:27 G 29107989.16 29107989.31 29107989.46 0.0088 0.0027

Neptune 74983-02-08 21:22 G 29108077.24 29108077.39 29108077.55 0.0088 0.0019

Neptune 74983-05-07 23:31 G 29108165.32 29108165.48 29108165.63 0.0088 0.0010

Mars 74983-07-29 04:19 G 29108247.58 29108247.68 29108247.79 0.1778 0.0865

Neptune 74983-08-04 01:27 G 29108253.41 29108253.56 29108253.72 0.0088 0.0003

Neptune 74983-10-31 03:36 G 29108341.49 29108341.65 29108341.81 0.0088 0.0006

Neptune 74984-01-27 05:31 G 29108429.58 29108429.73 29108429.89 0.0088 0.0015

Jupiter 74984-04-23 08:39 G 29108516.71 29108516.86 29108517.00 0.0489 0.0094

Neptune 74984-04-24 07:41 G 29108517.67 29108517.82 29108517.97 0.0088 0.0023

Saturn 74984-07-17 11:46 G 29108601.96 29108601.99 29108602.03 0.0275 0.0265

Neptune 74984-07-21 09:51 G 29108605.76 29108605.91 29108606.06 0.0088 0.0031

Saturn 74984-10-14 01:12 G 29108690.42 29108690.55 29108690.67 0.0275 0.0141

Neptune 74984-10-17 11:46 G 29108693.86 29108693.99 29108694.14 0.0088 0.0040

Saturn 74985-01-10 14:39 G 29108778.97 29108779.11 29108779.26 0.0276 0.0015

Neptune 74985-01-13 13:55 G 29108781.95 29108782.08 29108782.22 0.0088 0.0048

Saturn 74985-04-09 04:34 G 29108867.56 29108867.69 29108867.83 0.0276 0.0118

Earth 74985-04-11 09:22 G 29108869.77 29108869.89 29108870.00 0.2628 0.1114

Moon 74985-04-11 09:36 G 29108869.78 29108869.90 29108870.01 0.2622 0.1109 *

Neptune 74985-04-11 15:51 G 29108870.05 29108870.16 29108870.29 0.0088 0.0057

Saturn 74985-07-06 18:58 G 29108956.23 29108956.29 29108956.35 0.0276 0.0252

Neptune 74985-07-08 18:00 G 29108958.15 29108958.25 29108958.37 0.0088 0.0065

Neptune 74985-10-04 19:55 G 29109046.26 29109046.33 29109046.43 0.0088 0.0074

Neptune 74985-12-31 22:19 G 29109134.38 29109134.43 29109134.49 0.0088 0.0082

Jupiter 74990-06-26 01:27 G 29110771.41 29110771.56 29110771.70 0.0539 0.0152

Mars 74991-11-27 11:17 G 29111290.84 29111290.97 29111291.09 0.1762 0.1079

Mars 74992-12-18 12:43 G 29111677.90 29111678.03 29111678.15 0.1772 0.0124

Earth 74995-10-15 16:05 G 29112709.08 29112709.17 29112709.26 0.2703 0.1909

Moon 74995-10-15 16:19 G 29112709.10 29112709.18 29112709.27 0.2697 0.2002 *

Jupiter 74996-02-10 11:46 G 29112826.84 29112826.99 29112827.14 0.0489 0.0064

Moon 74998-04-14 06:43 G 29113620.65 29113620.78 29113620.91 0.2623 0.0304

Earth 74998-04-14 07:12 G 29113620.67 29113620.80 29113620.92 0.2629 0.0297 *

Saturn 74998-11-26 21:51 G 29113847.33 29113847.41 29113847.50 0.0284 0.0242

Saturn 74999-02-23 15:51 G 29113936.00 29113936.16 29113936.31 0.0283 0.0083

Saturn 74999-05-23 09:07 G 29114024.73 29114024.88 29114025.04 0.0283 0.0072

Saturn 74999-08-20 02:10 G 29114113.50 29114113.59 29114113.69 0.0283 0.0220

76TH MILLENNIUM CE

This is a list of transits of Mercury in the 76th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	75002-04-15 01:41	G	29115081.42	29115081.57	29115081.73	0.0539	0.0072	
Mars	75002-05-11 21:22	G	29115108.27	29115108.39	29115108.50	0.1765	0.0590	
Earth	75002-10-09 02:39	G	29115258.55	29115258.61	29115258.66	0.2705	0.2397	
Moon	75002-10-09 03:22	G	29115258.58	29115258.64	29115258.70	0.2710	0.2401	*
Venus	75003-09-23 23:46	G	29115608.42	29115608.49	29115608.56	0.3710	0.3100	
Uranus	75005-07-03 19:41	G	29116257.25	29116257.32	29116257.40	0.0144	0.0125	
Uranus	75005-09-30 00:43	G	29116345.43	29116345.53	29116345.64	0.0144	0.0101	
Uranus	75005-12-27 05:46	G	29116433.62	29116433.74	29116433.87	0.0144	0.0076	
Uranus	75006-03-25 10:48	G	29116521.81	29116521.95	29116522.10	0.0143	0.0052	
Uranus	75006-06-21 16:05	G	29116610.02	29116610.17	29116610.32	0.0143	0.0027	
Uranus	75006-09-17 21:07	G	29116698.23	29116698.38	29116698.54	0.0143	0.0004	
Uranus	75006-12-15 02:24	G	29116786.45	29116786.60	29116786.75	0.0143	0.0023	
Uranus	75007-03-13 07:41	G	29116874.67	29116874.82	29116874.97	0.0143	0.0049	
Uranus	75007-06-09 12:43	G	29116962.90	29116963.03	29116963.17	0.0143	0.0074	
Uranus	75007-09-05 18:15	G	29117051.15	29117051.26	29117051.37	0.0143	0.0100	
Jupiter	75007-11-30 14:39	G	29117136.98	29117137.11	29117137.25	0.0490	0.0224	
Uranus	75007-12-02 23:31	G	29117139.41	29117139.48	29117139.56	0.0143	0.0125	
Jupiter	75008-02-28 01:41	G	29117226.50	29117226.57	29117226.64	0.0488	0.0430	
Venus	75009-04-08 21:36	G	29117632.29	29117632.40	29117632.52	0.3709	0.1281	
Moon	75011-04-18 04:05	G	29118371.57	29118371.67	29118371.78	0.2627	0.1542	
Earth	75011-04-18 05:17	G	29118371.62	29118371.72	29118371.81	0.2630	0.1735	*
Mars	75011-10-02 06:15	G	29118538.68	29118538.76	29118538.84	0.1759	0.1276	

Mars 75012-08-16 08:10 G 29118857.72 29118857.84 29118857.96 0.1748 0.1037

Mars 75013-09-06 20:24 G 29119244.32 29119244.35 29119244.38 0.1785 0.1720

Jupiter 75014-02-01 02:10 G 29119391.46 29119391.59 29119391.72 0.0538 0.0292

Saturn 75014-03-04 01:55 G 29119422.47 29119422.58 29119422.68 0.0275 0.0186

Saturn 75014-05-31 15:22 G 29119510.99 29119511.14 29119511.28 0.0276 0.0060

Saturn 75014-08-28 05:03 G 29119599.57 29119599.71 29119599.85 0.0276 0.0070

Saturn 75014-11-24 18:58 G 29119688.20 29119688.29 29119688.40 0.0276 0.0203

Earth 75015-10-12 01:12 G 29120009.43 29120009.55 29120009.67 0.2704 0.0820

Moon 75015-10-12 02:10 G 29120009.47 29120009.59 29120009.71 0.2705 0.0671 *

Earth 75018-04-10 17:03 G 29120921.14 29120921.21 29120921.28 0.2628 0.2212

Moon 75018-04-10 17:46 G 29120921.17 29120921.24 29120921.32 0.2625 0.2102 *

Jupiter 75019-09-18 18:00 G 29121447.16 29121447.25 29121447.34 0.0490 0.0380

Jupiter 75019-12-17 04:34 G 29121536.56 29121536.69 29121536.81 0.0488 0.0268

Venus 75021-11-18 15:36 G 29122239.04 29122239.15 29122239.27 0.3662 0.0830

Mars 75022-01-06 10:05 G 29122287.77 29122287.92 29122288.08 0.1755 0.0080

Mars 75023-01-28 04:19 G 29122674.58 29122674.68 29122674.79 0.1778 0.0953

Jupiter 75025-11-20 02:10 G 29123701.56 29123701.59 29123701.63 0.0537 0.0519

Jupiter 75026-02-18 00:29 G 29123791.42 29123791.52 29123791.62 0.0539 0.0401

Venus 75027-06-04 10:48 G 29124262.86 29124262.95 29124263.03 0.3663 0.2590

Saturn 75028-07-13 15:07 G 29124667.99 29124668.13 29124668.28 0.0284 0.0137

Saturn 75028-10-10 08:53 G 29124756.71 29124756.87 29124757.03 0.0284 0.0020

Earth 75028-10-13 23:31 G 29124760.35 29124760.48 29124760.60 0.2703 0.0715

Moon 75028-10-14 00:15 G 29124760.39 29124760.51 29124760.63 0.2699 0.0816 *

Saturn 75029-01-07 02:10 G 29124845.46 29124845.59 29124845.72 0.0283 0.0171

Moon 75031-04-13 14:53 G 29125671.99 29125672.12 29125672.24 0.2622 0.0827

Earth 75031-04-13 14:39 G 29125671.99 29125672.11 29125672.23 0.2629 0.0848 *

Mars 75031-05-29 11:31 G 29125717.85 29125717.98 29125718.10 0.1762 0.0972

Jupiter 75031-10-05 06:43 G 29125846.64 29125846.78 29125846.93 0.0489 0.0097

Mars 75032-06-19 12:43 G 29126104.91 29126105.03 29126105.15 0.1772 0.0208

Jupiter 75037-12-07 00:15 G 29128101.37 29128101.51 29128101.66 0.0539 0.0172

Earth 75041-10-16 21:22 G 29129511.32 29129511.39 29129511.46 0.2703 0.2191

Moon 75041-10-16 21:36 G 29129511.32 29129511.40 29129511.47 0.2696 0.2157 *

Mars 75041-11-09 21:22 G 29129535.27 29129535.39 29129535.51 0.1765 0.0509

Saturn 75043-07-22 05:03 G 29130154.62 29130154.71 29130154.81 0.0275 0.0208

Jupiter 75043-07-24 09:36 G 29130156.76 29130156.90 29130157.05 0.0490 0.0067

Saturn 75043-10-18 18:29 G 29130243.14 29130243.27 29130243.42 0.0275 0.0083

Saturn 75044-01-15 08:24 G 29130331.70 29130331.85 29130331.99 0.0276 0.0047

Saturn 75044-04-12 22:19 G 29130420.32 29130420.43 29130420.54 0.0276 0.0179

Moon 75044-04-15 12:00 G 29130422.87 29130423.00 29130423.13 0.2624 0.0468

Earth 75044-04-15 12:29 G 29130422.89 29130423.02 29130423.15 0.2629 0.0564 *

Uranus 75048-07-11 18:00 G 29131971.17 29131971.25 29131971.34 0.0135 0.0113

Uranus 75048-10-07 22:34 G 29132059.34 29132059.44 29132059.57 0.0135 0.0092

Earth 75048-10-09 08:10 G 29132060.76 29132060.84 29132060.92 0.2705 0.2100

Moon 75048-10-09 08:53 G 29132060.78 29132060.87 29132060.96 0.2710 0.1935 *

Uranus 75049-01-04 03:36 G 29132147.52 29132147.65 29132147.79 0.0135 0.0070

Uranus 75049-04-02 08:24 G 29132235.71 29132235.85 29132236.00 0.0135 0.0048

Uranus 75049-06-29 13:12 G 29132323.90 29132324.05 29132324.21 0.0135 0.0027

Jupiter 75049-09-24 23:31 G 29132411.33 29132411.48 29132411.64 0.0538 0.0075

Uranus 75049-09-25 18:00 G 29132412.09 29132412.25 29132412.41 0.0135 0.0005

Uranus 75049-12-22 22:48 G 29132500.29 29132500.45 29132500.60 0.0135 0.0016

Uranus 75050-03-21 03:22 G 29132588.49 29132588.64 29132588.79 0.0135 0.0037

Uranus 75050-06-17 07:55 G 29132676.69 29132676.83 29132676.97 0.0135 0.0058

Uranus 75050-09-13 12:15 G 29132764.90 29132765.01 29132765.15 0.0135 0.0079

Uranus 75050-12-10 17:03 G 29132853.11 29132853.21 29132853.32 0.0135 0.0099

Uranus 75051-03-08 21:22 G 29132941.33 29132941.39 29132941.47 0.0135 0.0120

Mars 75051-04-02 06:00 G 29132965.66 29132965.75 29132965.84 0.1759 0.1199

Mars 75052-02-15 08:53 G 29133284.76 29133284.87 29133284.98 0.1748 0.1166

Jupiter 75055-05-12 12:58 G 29134466.91 29134467.04 29134467.17 0.0490 0.0221

Jupiter 75055-08-09 23:46 G 29134556.43 29134556.49 29134556.56 0.0488 0.0434

Moon 75057-04-18 09:36 G 29135173.82 29135173.90 29135173.99 0.2628 0.1986

Earth 75057-04-18 10:48 G 29135173.86 29135173.95 29135174.03 0.2630 0.2019 *

Saturn 75057-11-30 17:03 G 29135400.08 29135400.21 29135400.34 0.0284 0.0170

Saturn 75058-02-27 10:48 G 29135488.79 29135488.95 29135489.11 0.0283 0.0014

Saturn 75058-05-27 03:51 G 29135577.53 29135577.66 29135577.81 0.0283 0.0139

Venus 75060-04-29 22:48 G 29136281.34 29136281.45 29136281.57 0.3710 0.1489

Mars 75061-07-07 10:34 G 29136714.79 29136714.94 29136715.10 0.1755 0.0181

Jupiter 75061-07-13 23:31 G 29136721.36 29136721.48 29136721.61 0.0538 0.0303

Earth 75061-10-12 06:43 G 29136811.65 29136811.78 29136811.90 0.2704 0.0531

Moon 75061-10-12 07:41 G 29136811.69 29136811.82 29136811.94 0.2703 0.0480 *

Mars 75062-07-29 04:19 G 29137101.58 29137101.68 29137101.78 0.1778 0.1030

Neptune 75063-03-22 04:05 G 29137337.62 29137337.67 29137337.75 0.0090 0.0082

Neptune 75063-06-18 06:29 G 29137425.69 29137425.77 29137425.88 0.0090 0.0073

Neptune 75063-09-14 09:07 G 29137513.77 29137513.88 29137513.99 0.0090 0.0063

Neptune 75063-12-11 11:17 G 29137601.85 29137601.97 29137602.11 0.0090 0.0054

Neptune 75064-03-08 13:41 G 29137689.94 29137690.07 29137690.21 0.0090 0.0045

Earth 75064-04-10 22:19 G 29137723.35 29137723.43 29137723.52 0.2628 0.1950

Moon 75064-04-10 23:03 G 29137723.38 29137723.46 29137723.55 0.2623 0.1934 *

Neptune 75064-06-04 15:51 G 29137778.02 29137778.16 29137778.32 0.0090 0.0036

Neptune 75064-08-31 18:15 G 29137866.11 29137866.26 29137866.42 0.0090 0.0027

Neptune 75064-11-27 20:39 G 29137954.20 29137954.36 29137954.51 0.0090 0.0018

Neptune 75065-02-23 22:48 G 29138042.29 29138042.45 29138042.61 0.0090 0.0009

Neptune 75065-05-23 01:12 G 29138130.39 29138130.55 29138130.70 0.0090 0.0002

Neptune 75065-08-19 03:22 G 29138218.48 29138218.64 29138218.80 0.0090 0.0009

Venus 75065-11-13 20:39 G 29138305.28 29138305.36 29138305.44 0.3709 0.2823

Neptune 75065-11-15 05:31 G 29138306.57 29138306.73 29138306.89 0.0090 0.0018

Neptune 75066-02-11 07:41 G 29138394.67 29138394.82 29138394.97 0.0090 0.0027

Neptune 75066-05-10 09:51 G 29138482.77 29138482.91 29138483.06 0.0090 0.0036

Neptune 75066-08-06 11:46 G 29138570.87 29138570.99 29138571.14 0.0090 0.0045

Neptune 75066-11-02 14:10 G 29138658.97 29138659.09 29138659.22 0.0090 0.0053

Neptune 75067-01-29 16:05 G 29138747.07 29138747.17 29138747.30 0.0090 0.0062

Jupiter 75067-02-28 16:05 G 29138777.08 29138777.17 29138777.26 0.0490 0.0379

Neptune 75067-04-27 18:15 G 29138835.18 29138835.26 29138835.37 0.0090 0.0071

Jupiter 75067-05-29 02:39 G 29138866.49 29138866.61 29138866.73 0.0488 0.0269

Neptune 75067-07-24 20:24 G 29138923.29 29138923.35 29138923.43 0.0090 0.0079

Neptune 75067-10-20 22:19 G 29139011.42 29139011.43 29139011.48 0.0090 0.0088

Mars 75070-11-27 12:00 G 29140144.87 29140145.00 29140145.14 0.1762 0.0841

Mars 75071-12-19 12:43 G 29140531.91 29140532.03 29140532.15 0.1772 0.0296

Saturn 75072-12-08 06:00 G 29140886.70 29140886.75 29140886.82 0.0275 0.0250

Venus 75072-12-09 19:12 G 29140888.23 29140888.30 29140888.37 0.3661 0.2891

Saturn 75073-03-06 19:27 G 29140975.18 29140975.31 29140975.44 0.0275 0.0125

Jupiter 75073-05-02 00:00 G 29141031.47 29141031.50 29141031.53 0.0538 0.0526

Saturn 75073-06-03 09:07 G 29141063.73 29141063.88 29141064.03 0.0276 0.0003

Jupiter 75073-07-30 22:19 G 29141121.32 29141121.43 29141121.53 0.0540 0.0397

Saturn 75073-08-30 23:03 G 29141152.33 29141152.46 29141152.59 0.0276 0.0134

Saturn 75073-11-27 13:12 G 29141241.02 29141241.05 29141241.08 0.0277 0.0268

Earth 75074-10-15 04:48 G 29141562.58 29141562.70 29141562.82 0.2703 0.0997

Moon 75074-10-15 05:31 G 29141562.62 29141562.73 29141562.85 0.2699 0.1094 *

Moon 75077-04-13 20:10 G 29142474.21 29142474.34 29142474.47 0.2622 0.0558

Earth 75077-04-13 19:55 G 29142474.21 29142474.33 29142474.46 0.2629 0.0587 *

Venus 75078-06-25 13:55 G 29142911.97 29142912.08 29142912.20 0.3662 0.0433

Jupiter 75079-03-17 05:31 G 29143176.58 29143176.73 29143176.87 0.0489 0.0107

Mars 75081-05-10 21:22 G 29143962.27 29143962.39 29143962.51 0.1765 0.0420

Jupiter 75085-05-18 22:48 G 29145431.30 29145431.45 29145431.59 0.0539 0.0179

Saturn 75087-04-19 16:05 G 29146132.08 29146132.17 29146132.28 0.0284 0.0225

Saturn 75087-07-17 10:19 G 29146220.77 29146220.93 29146221.09 0.0284 0.0066

Saturn 75087-10-14 03:36 G 29146309.50 29146309.65 29146309.81 0.0284 0.0089

Moon 75087-10-18 02:39 G 29146313.57 29146313.61 29146313.66 0.2695 0.2468

Earth 75087-10-18 02:39 G 29146313.57 29146313.61 29146313.66 0.2703 0.2465 *

Saturn 75088-01-10 20:39 G 29146398.28 29146398.36 29146398.45 0.0283 0.0238

Uranus 75089-04-26 22:19 G 29146870.41 29146870.43 29146870.48 0.0144 0.0140

Uranus 75089-07-24 03:22 G 29146958.56 29146958.64 29146958.74 0.0144 0.0116

Uranus 75089-10-20 08:39 G 29147046.74 29147046.86 29147046.98 0.0144 0.0091

Uranus 75090-01-16 13:41 G 29147134.94 29147135.07 29147135.21 0.0144 0.0066

Uranus 75090-04-14 18:43 G 29147223.14 29147223.28 29147223.43 0.0144 0.0042

Moon 75090-04-16 17:03 G 29147225.09 29147225.21 29147225.34 0.2625 0.0763

Earth 75090-04-16 18:00 G 29147225.12 29147225.25 29147225.37 0.2629 0.0838 *

Uranus 75090-07-11 23:46 G 29147311.34 29147311.49 29147311.65 0.0143 0.0018

Mars 75090-10-01 06:00 G 29147392.66 29147392.75 29147392.85 0.1759 0.1114

Uranus 75090-10-08 05:03 G 29147399.56 29147399.71 29147399.87 0.0143 0.0008

Jupiter 75091-01-03 07:55 G 29147486.68 29147486.83 29147486.97 0.0490 0.0064

Uranus 75091-01-04 10:19 G 29147487.78 29147487.93 29147488.08 0.0143 0.0033

Uranus 75091-04-02 15:36 G 29147576.00 29147576.15 29147576.29 0.0143 0.0059

Uranus 75091-06-29 20:39 G 29147664.24 29147664.36 29147664.49 0.0143 0.0084

Mars 75091-08-16 09:07 G 29147711.78 29147711.88 29147711.99 0.1748 0.1268

Uranus 75091-09-26 01:55 G 29147752.49 29147752.58 29147752.69 0.0143 0.0110

Uranus 75091-12-23 07:27 G 29147840.77 29147840.81 29147840.86 0.0143 0.0136

Pluto 75094-04-17 05:03 G 29148686.70 29148686.71 29148686.74 0.0064 0.0063

Pluto 75094-07-14 05:31 G 29148774.66 29148774.73 29148774.84 0.0064 0.0053

Pluto 75094-10-10 06:29 G 29148862.67 29148862.77 29148862.91 0.0064 0.0042

Earth 75094-10-10 13:27 G 29148862.97 29148863.06 29148863.16 0.2704 0.1800

Moon 75094-10-10 14:24 G 29148863.00 29148863.10 29148863.19 0.2709 0.1796 *

Pluto 75095-01-06 07:27 G 29148950.68 29148950.81 29148950.96 0.0064 0.0031

Pluto 75095-04-04 08:24 G 29149038.70 29149038.85 29149039.01 0.0064 0.0020

Pluto 75095-07-01 09:22 G 29149126.73 29149126.89 29149127.05 0.0064 0.0010

Pluto 75095-09-27 10:05 G 29149214.76 29149214.92 29149215.08 0.0064 0.0002

Pluto 75095-12-24 10:48 G 29149302.80 29149302.95 29149303.11 0.0064 0.0013

Pluto 75096-03-21 11:31 G 29149390.84 29149390.98 29149391.14 0.0064 0.0024

Pluto 75096-06-17 12:15 G 29149478.89 29149479.01 29149479.16 0.0064 0.0035

Pluto 75096-09-13 13:27 G 29149566.95 29149567.06 29149567.17 0.0065 0.0045

Pluto 75096-12-10 14:10 G 29149655.02 29149655.09 29149655.17 0.0065 0.0056

Jupiter 75097-03-06 22:34 G 29149741.29 29149741.44 29149741.59 0.0538 0.0054

Mars 75101-01-06 11:17 G 29151141.81 29151141.97 29151142.12 0.1755 0.0304

Mars 75102-01-28 04:19 G 29151528.59 29151528.68 29151528.78 0.1778 0.1120

Saturn 75102-04-28 09:36 G 29151618.88 29151618.90 29151618.92 0.0275 0.0271

Saturn 75102-07-25 22:48 G 29151707.33 29151707.45 29151707.58 0.0275 0.0147

Saturn 75102-10-22 12:29 G 29151795.87 29151796.02 29151796.16 0.0276 0.0021

Jupiter 75102-10-23 10:48 G 29151796.82 29151796.95 29151797.08 0.0490 0.0225

Saturn 75103-01-19 02:10 G 29151884.46 29151884.59 29151884.73 0.0276 0.0111

Jupiter 75103-01-20 21:51 G 29151886.34 29151886.41 29151886.48 0.0488 0.0431

Saturn 75103-04-17 16:19 G 29151973.12 29151973.18 29151973.25 0.0276 0.0244

Moon 75103-04-20 15:07 G 29151976.06 29151976.13 29151976.21 0.2629 0.2133

Earth 75103-04-20 16:05 G 29151976.11 29151976.17 29151976.24 0.2630 0.2307 *

Earth 75107-10-14 12:00 G 29153613.87 29153614.00 29153614.13 0.2704 0.0237

Moon 75107-10-14 13:12 G 29153613.92 29153614.05 29153614.17 0.2702 0.0101 *

Jupiter 75108-12-24 21:22 G 29154051.27 29154051.39 29154051.52 0.0538 0.0306

Earth 75110-04-13 03:51 G 29154525.56 29154525.66 29154525.75 0.2628 0.1694

Moon 75110-04-13 04:19 G 29154525.57 29154525.68 29154525.78 0.2622 0.1561 *

Mars 75110-05-29 12:43 G 29154571.89 29154572.03 29154572.17 0.1762 0.0710

Mars 75111-06-20 12:43 G 29154958.91 29154959.03 29154959.15 0.1771 0.0374

Jupiter 75114-08-11 14:10 G 29156107.00 29156107.09 29156107.19 0.0491 0.0379

Jupiter 75114-11-09 00:43 G 29156196.41 29156196.53 29156196.66 0.0489 0.0271

Saturn 75116-09-06 18:29 G 29156864.20 29156864.27 29156864.34 0.0284 0.0253

Saturn 75116-12-04 12:29 G 29156952.87 29156953.02 29156953.17 0.0284 0.0094

Venus 75116-12-05 22:05 G 29156954.29 29156954.42 29156954.54 0.3710 0.0141

Saturn 75117-03-03 06:00 G 29157041.60 29157041.75 29157041.91 0.0283 0.0060

Saturn 75117-05-30 23:03 G 29157130.36 29157130.46 29157130.57 0.0283 0.0210

Earth 75120-10-16 10:19 G 29158364.82 29158364.93 29158365.04 0.2703 0.1284

Moon 75120-10-16 10:48 G 29158364.84 29158364.95 29158365.06 0.2698 0.1309 *

Mars 75120-11-09 21:22 G 29158389.27 29158389.39 29158389.51 0.1765 0.0339

Jupiter 75121-01-10 19:41 G 29158451.21 29158451.32 29158451.42 0.0540 0.0385

Moon 75123-04-16 01:12 G 29159276.42 29159276.55 29159276.68 0.2622 0.0363

Earth 75123-04-16 01:27 G 29159276.43 29159276.56 29159276.68 0.2629 0.0321 *

Jupiter 75126-08-28 03:36 G 29160506.51 29160506.65 29160506.80 0.0489 0.0108

Venus 75129-07-17 17:17 G 29161561.12 29161561.22 29161561.33 0.3661 0.1684

Mars 75130-04-02 06:15 G 29161819.66 29161819.76 29161819.85 0.1759 0.1026

Mars 75131-02-15 09:36 G 29162138.81 29162138.90 29162139.00 0.1748 0.1387

Saturn 75131-12-13 00:00 G 29162439.40 29162439.50 29162439.62 0.0275 0.0187

Saturn 75132-03-10 13:41 G 29162527.92 29162528.07 29162528.21 0.0276 0.0060

Uranus 75132-05-05 20:39 G 29162584.32 29162584.36 29162584.43 0.0134 0.0126

Saturn 75132-06-07 03:22 G 29162616.50 29162616.64 29162616.78 0.0276 0.0069

Uranus 75132-08-02 01:41 G 29162672.48 29162672.57 29162672.68 0.0135 0.0104

Saturn 75132-09-03 17:17 G 29162705.12 29162705.22 29162705.33 0.0276 0.0202

Uranus 75132-10-29 06:43 G 29162760.65 29162760.78 29162760.91 0.0135 0.0082

Jupiter 75132-10-29 20:10 G 29162761.20 29162761.34 29162761.49 0.0539 0.0169

Uranus 75133-01-25 11:17 G 29162848.84 29162848.97 29162849.12 0.0135 0.0061

Uranus 75133-04-23 16:19 G 29162937.03 29162937.18 29162937.33 0.0135 0.0039

Uranus 75133-07-20 21:07 G 29163025.22 29163025.38 29163025.54 0.0135 0.0017

Uranus 75133-10-17 01:41 G 29163113.42 29163113.57 29163113.73 0.0135 0.0006

Uranus 75134-01-13 06:29 G 29163201.61 29163201.77 29163201.93 0.0135 0.0025

Uranus 75134-04-11 11:03 G 29163289.82 29163289.96 29163290.11 0.0135 0.0046

Uranus 75134-07-08 15:36 G 29163378.02 29163378.15 29163378.29 0.0135 0.0067

Uranus 75134-10-04 20:10 G 29163466.23 29163466.34 29163466.46 0.0135 0.0088

Uranus 75135-01-01 00:43 G 29163554.44 29163554.53 29163554.63 0.0135 0.0108

Venus 75135-01-31 12:15 G 29163584.90 29163585.01 29163585.11 0.3662 0.1654

Uranus 75135-03-30 05:03 G 29163642.68 29163642.71 29163642.77 0.0135 0.0129

Moon 75136-04-17 22:34 G 29164027.32 29164027.44 29164027.56 0.2625 0.1031

Earth 75136-04-17 23:17 G 29164027.36 29164027.47 29164027.59 0.2629 0.1116 *

Jupiter 75138-06-16 06:43 G 29164816.63 29164816.78 29164816.92 0.0489 0.0055

Mars 75139-08-23 15:07 G 29165250.10 29165250.13 29165250.16 0.1752 0.1692

Mars 75140-07-07 11:46 G 29165568.84 29165568.99 29165569.13 0.1755 0.0421

Earth 75140-10-11 18:58 G 29165665.19 29165665.29 29165665.40 0.2704 0.1505

Moon 75140-10-11 19:55 G 29165665.22 29165665.33 29165665.44 0.2707 0.1333 *

Mars 75141-07-29 04:34 G 29165955.60 29165955.69 29165955.78 0.1778 0.1208

Moon 75143-04-11 12:43 G 29166577.01 29166577.03 29166577.04 0.2626 0.2596

Jupiter 75144-08-17 20:39 G 29167071.21 29167071.36 29167071.52 0.0538 0.0053

Neptune 75145-12-03 04:05 G 29167543.62 29167543.67 29167543.74 0.0088 0.0080

Neptune 75146-03-01 06:00 G 29167631.67 29167631.75 29167631.84 0.0088 0.0072

Saturn 75146-04-23 11:46 G 29167684.85 29167684.99 29167685.13 0.0284 0.0149

Neptune 75146-05-28 08:10 G 29167719.74 29167719.84 29167719.94 0.0088 0.0064

Saturn 75146-07-21 05:31 G 29167773.57 29167773.73 29167773.89 0.0284 0.0008

Neptune 75146-08-24 10:05 G 29167807.80 29167807.92 29167808.04 0.0088 0.0056

Saturn 75146-10-17 22:48 G 29167862.32 29167862.45 29167862.58 0.0283 0.0160

Neptune 75146-11-20 12:00 G 29167895.87 29167896.00 29167896.13 0.0088 0.0048

Neptune 75147-02-16 13:55 G 29167983.95 29167984.08 29167984.22 0.0088 0.0040

Neptune 75147-05-15 15:51 G 29168072.02 29168072.16 29168072.31 0.0088 0.0032

Neptune 75147-08-11 18:00 G 29168160.10 29168160.25 29168160.40 0.0088 0.0024

Neptune 75147-11-07 19:55 G 29168248.18 29168248.33 29168248.49 0.0088 0.0016

Neptune 75148-02-03 22:05 G 29168336.26 29168336.42 29168336.57 0.0088 0.0008

Neptune 75148-05-02 00:00 G 29168424.35 29168424.50 29168424.66 0.0088 0.0002

Neptune 75148-07-29 02:10 G 29168512.43 29168512.59 29168512.74 0.0088 0.0009

Neptune 75148-10-25 04:05 G 29168600.52 29168600.67 29168600.83 0.0088 0.0017

Neptune 75149-01-21 06:00 G 29168688.61 29168688.75 29168688.91 0.0088 0.0026

Neptune 75149-04-19 08:10 G 29168776.70 29168776.84 29168776.99 0.0088 0.0034

Moon 75149-04-20 20:39 G 29168778.32 29168778.36 29168778.39 0.2631 0.2514

Earth 75149-04-20 21:36 G 29168778.38 29168778.40 29168778.42 0.2630 0.2585 *

Neptune 75149-07-16 10:05 G 29168864.79 29168864.92 29168865.07 0.0088 0.0043

Neptune 75149-10-12 12:15 G 29168952.89 29168953.01 29168953.15 0.0088 0.0051

Mars 75149-11-27 13:12 G 29168998.90 29168999.05 29168999.19 0.1762 0.0599

Neptune 75150-01-08 14:10 G 29169040.99 29169041.09 29169041.22 0.0088 0.0060

Jupiter 75150-04-04 09:07 G 29169126.75 29169126.88 29169127.01 0.0490 0.0224

Neptune 75150-04-06 16:19 G 29169129.10 29169129.18 29169129.29 0.0088 0.0068

Jupiter 75150-07-02 19:55 G 29169216.26 29169216.33 29169216.40 0.0488 0.0431

Neptune 75150-07-03 18:15 G 29169217.21 29169217.26 29169217.36 0.0088 0.0077

Neptune 75150-09-29 20:39 G 29169305.33 29169305.36 29169305.41 0.0088 0.0085

Mars 75150-12-19 12:43 G 29169385.91 29169386.03 29169386.15 0.1772 0.0459

Earth 75153-10-14 17:31 G 29170416.10 29170416.23 29170416.36 0.2704 0.0065

Moon 75153-10-14 18:29 G 29170416.14 29170416.27 29170416.40 0.2702 0.0102 *

Earth 75156-04-13 09:07 G 29171327.77 29171327.88 29171327.99 0.2628 0.1422

Moon 75156-04-13 09:36 G 29171327.79 29171327.90 29171328.01 0.2622 0.1445 *

Jupiter 75156-06-05 20:24 G 29171381.22 29171381.35 29171381.48 0.0538 0.0286

Mars 75159-04-19 14:10 G 29172429.04 29172429.09 29172429.14 0.1769 0.1650

Mars 75160-05-10 21:22 G 29172816.27 29172816.39 29172816.51 0.1765 0.0254

Saturn 75161-05-01 03:22 G 29173171.55 29173171.64 29173171.73 0.0275 0.0210

Saturn 75161-07-28 16:48 G 29173260.06 29173260.20 29173260.34 0.0275 0.0084

Saturn 75161-10-25 06:29 G 29173348.62 29173348.77 29173348.91 0.0276 0.0045

Jupiter 75162-01-21 12:00 G 29173436.91 29173437.00 29173437.09 0.0491 0.0384

Saturn 75162-01-21 20:24 G 29173437.24 29173437.35 29173437.46 0.0276 0.0176

Jupiter 75162-04-20 22:34 G 29173526.32 29173526.44 29173526.56 0.0489 0.0266

Earth 75166-10-17 15:36 G 29175167.05 29175167.15 29175167.25 0.2703 0.1563

Moon 75166-10-17 16:05 G 29175167.07 29175167.17 29175167.27 0.2697 0.1665 *

Venus 75167-12-27 23:03 G 29175603.38 29175603.46 29175603.55 0.3711 0.2737

Jupiter 75168-06-22 17:31 G 29175781.12 29175781.23 29175781.33 0.0539 0.0381

Moon 75169-04-16 06:29 G 29176078.64 29176078.77 29176078.90 0.2623 0.0056

Earth 75169-04-16 06:43 G 29176078.65 29176078.78 29176078.91 0.2629 0.0054 *

Mars 75169-10-01 06:00 G 29176246.65 29176246.75 29176246.85 0.1758 0.0951

Mars 75170-08-16 10:19 G 29176565.86 29176565.93 29176566.00 0.1748 0.1508

Uranus 75173-05-18 06:43 G 29177571.71 29177571.78 29177571.84 0.0144 0.0129

Venus 75173-07-12 20:53 G 29177627.26 29177627.37 29177627.49 0.3710 0.1648

Uranus 75173-08-14 11:31 G 29177659.88 29177659.98 29177660.09 0.0144 0.0105

Uranus 75173-11-10 16:34 G 29177748.07 29177748.19 29177748.32 0.0144 0.0081

Uranus 75174-02-06 21:36 G 29177836.26 29177836.40 29177836.54 0.0144 0.0056

Jupiter 75174-02-07 01:41 G 29177836.43 29177836.57 29177836.72 0.0489 0.0107 *

Uranus 75174-05-06 02:39 G 29177924.46 29177924.61 29177924.77 0.0144 0.0032

Uranus 75174-08-02 07:55 G 29178012.67 29178012.83 29178012.98 0.0144 0.0006

Uranus 75174-10-29 12:58 G 29178100.89 29178101.04 29178101.20 0.0143 0.0019

Uranus 75175-01-25 18:15 G 29178189.11 29178189.26 29178189.41 0.0143 0.0044

Uranus 75175-04-23 23:31 G 29178277.34 29178277.48 29178277.62 0.0143 0.0069

Uranus 75175-07-21 04:34 G 29178365.58 29178365.69 29178365.82 0.0143 0.0095

Saturn 75175-09-10 14:10 G 29178416.97 29178417.09 29178417.23 0.0284 0.0175

Uranus 75175-10-17 10:05 G 29178453.84 29178453.92 29178454.00 0.0143 0.0121

Saturn 75175-12-08 08:10 G 29178505.68 29178505.84 29178506.00 0.0284 0.0018

Saturn 75176-03-06 01:27 G 29178594.42 29178594.56 29178594.70 0.0283 0.0135

Saturn 75176-06-02 18:29 G 29178683.27 29178683.27 29178683.27 0.0283 0.0283

Mars 75179-02-21 15:07 G 29179677.09 29179677.13 29179677.18 0.1752 0.1607

Mars 75180-01-06 12:15 G 29179995.86 29179996.01 29179996.15 0.1755 0.0538

Jupiter 75180-04-10 17:31 G 29180091.08 29180091.23 29180091.38 0.0539 0.0154

Mars 75181-01-27 04:19 G 29180382.60 29180382.68 29180382.77 0.1778 0.1286

Moon 75182-04-19 03:51 G 29180829.55 29180829.66 29180829.78 0.2625 0.1276

Earth 75182-04-19 04:48 G 29180829.59 29180829.70 29180829.81 0.2629 0.1391 *

Pluto 75183-09-27 08:24 G 29181355.83 29181355.85 29181355.91 0.0081 0.0078

Pluto 75183-12-24 10:19 G 29181443.83 29181443.93 29181444.05 0.0081 0.0056

Pluto 75184-03-21 12:00 G 29181531.87 29181532.00 29181532.15 0.0080 0.0035

Pluto 75184-06-17 13:41 G 29181619.92 29181620.07 29181620.23 0.0080 0.0015

Pluto 75184-09-13 15:36 G 29181707.99 29181708.15 29181708.31 0.0080 0.0007

Pluto 75184-12-10 17:03 G 29181796.07 29181796.21 29181796.37 0.0080 0.0028

Pluto 75185-03-08 18:43 G 29181884.16 29181884.28 29181884.41 0.0080 0.0049

Pluto 75185-06-04 20:10 G 29181972.28 29181972.34 29181972.43 0.0080 0.0070

Jupiter 75185-11-26 04:34 G 29182146.55 29182146.69 29182146.84 0.0490 0.0056

Venus 75186-02-21 15:36 G 29182234.03 29182234.15 29182234.26 0.3661 0.0467

Earth 75186-10-13 00:29 G 29182467.40 29182467.52 29182467.63 0.2704 0.1205

Moon 75186-10-13 01:27 G 29182467.45 29182467.56 29182467.68 0.2705 0.1149 *

Earth 75189-04-11 17:03 G 29183379.17 29183379.21 29183379.24 0.2628 0.2506

Moon 75189-04-11 17:46 G 29183379.20 29183379.24 29183379.28 0.2624 0.2474 *

Mars 75189-05-28 13:41 G 29183425.92 29183426.07 29183426.22 0.1762 0.0470

Mars 75190-06-19 12:58 G 29183812.92 29183813.04 29183813.15 0.1772 0.0554

Saturn 75190-09-18 04:48 G 29183903.65 29183903.70 29183903.77 0.0275 0.0246

Saturn 75190-12-15 18:15 G 29183992.13 29183992.26 29183992.39 0.0275 0.0122

Saturn 75191-03-14 07:41 G 29184080.68 29184080.82 29184080.97 0.0276 0.0009

Saturn 75191-06-10 21:36 G 29184169.27 29184169.40 29184169.53 0.0276 0.0136

Venus 75191-09-07 10:34 G 29184257.87 29184257.94 29184258.01 0.3662 0.2925

Saturn 75191-09-07 11:46 G 29184257.96 29184257.99 29184258.02 0.0277 0.0270 *

Jupiter 75192-01-28 18:00 G 29184401.10 29184401.25 29184401.40 0.0539 0.0066

Jupiter 75197-09-14 07:41 G 29186456.69 29186456.82 29186456.95 0.0490 0.0213

Jupiter 75197-12-12 18:29 G 29186546.21 29186546.27 29186546.33 0.0488 0.0440

Mars 75198-10-18 14:24 G 29186856.03 29186856.10 29186856.18 0.1769 0.1534

Earth 75199-10-15 22:48 G 29187218.33 29187218.45 29187218.58 0.2704 0.0354

Moon 75199-10-15 23:46 G 29187218.37 29187218.49 29187218.62 0.2702 0.0532 *

Mars 75199-11-09 21:22 G 29187243.27 29187243.39 29187243.51 0.1765 0.0176

Earth 75202-04-14 14:24 G 29188129.99 29188130.10 29188130.22 0.2628 0.1160

Moon 75202-04-14 14:53 G 29188130.00 29188130.12 29188130.24 0.2622 0.1039 *

Jupiter 75203-11-16 18:29 G 29188711.14 29188711.27 29188711.40 0.0538 0.0286

Saturn 75205-01-27 13:27 G 29189148.97 29189149.06 29189149.16 0.0284 0.0230

Saturn 75205-04-26 07:41 G 29189237.66 29189237.82 29189237.97 0.0284 0.0072

Saturn 75205-07-24 01:12 G 29189326.39 29189326.55 29189326.70 0.0283 0.0083

Saturn 75205-10-20 18:00 G 29189415.17 29189415.25 29189415.35 0.0283 0.0233

Mars 75209-04-01 06:00 G 29190673.65 29190673.75 29190673.86 0.1758 0.0864

Jupiter 75209-07-03 10:19 G 29190766.84 29190766.93 29190767.02 0.0491 0.0382

Jupiter 75209-09-30 20:39 G 29190856.24 29190856.36 29190856.49 0.0489 0.0266

Mars 75210-02-14 10:34 G 29190992.89 29190992.94 29190993.00 0.1748 0.1612

Earth 75212-10-17 21:07 G 29191969.28 29191969.38 29191969.47 0.2703 0.1846

Moon 75212-10-17 21:22 G 29191969.30 29191969.39 29191969.48 0.2696 0.1794 *

Moon 75215-04-17 11:46 G 29192880.86 29192880.99 29192881.12 0.2623 0.0115

Earth 75215-04-17 12:15 G 29192880.88 29192881.01 29192881.14 0.2629 0.0240 *

Jupiter 75215-09-04 18:00 G 29193021.22 29193021.25 29193021.28 0.0537 0.0522

Jupiter 75215-12-03 16:19 G 29193111.08 29193111.18 29193111.28 0.0539 0.0400

Uranus 75216-05-26 04:48 G 29193285.62 29193285.70 29193285.78 0.0134 0.0116

Uranus 75216-08-22 09:22 G 29193373.79 29193373.89 29193374.01 0.0134 0.0094

Uranus 75216-11-18 14:24 G 29193461.97 29193462.10 29193462.24 0.0134 0.0072

Uranus 75217-02-14 19:12 G 29193550.16 29193550.30 29193550.45 0.0135 0.0051

Uranus 75217-05-14 00:00 G 29193638.35 29193638.50 29193638.66 0.0135 0.0030

Uranus 75217-08-10 04:48 G 29193726.54 29193726.70 29193726.86 0.0135 0.0008

Uranus 75217-11-06 09:22 G 29193814.74 29193814.89 29193815.05 0.0135 0.0014

Uranus 75218-02-02 14:10 G 29193902.94 29193903.09 29193903.24 0.0135 0.0034

Uranus 75218-05-01 18:43 G 29193991.14 29193991.28 29193991.43 0.0135 0.0055

Uranus 75218-07-28 23:17 G 29194079.35 29194079.47 29194079.60 0.0135 0.0076

Mars 75218-08-22 15:07 G 29194104.07 29194104.13 29194104.18 0.1752 0.1530

Uranus 75218-10-25 03:51 G 29194167.56 29194167.66 29194167.77 0.0135 0.0096

Uranus 75219-01-21 08:10 G 29194255.78 29194255.84 29194255.93 0.0135 0.0117

Mars 75219-07-07 12:43 G 29194422.89 29194423.03 29194423.17 0.1755 0.0655

Earth 75219-10-11 07:12 G 29194518.76 29194518.80 29194518.85 0.2705 0.2504

Moon 75219-10-11 07:55 G 29194518.78 29194518.83 29194518.88 0.2710 0.2441 *

Saturn 75220-02-05 07:41 G 29194635.81 29194635.82 29194635.84 0.0275 0.0272

Saturn 75220-05-03 21:07 G 29194724.26 29194724.38 29194724.50 0.0275 0.0148

Mars 75220-07-28 04:34 G 29194809.61 29194809.69 29194809.77 0.1778 0.1375

Saturn 75220-07-31 10:34 G 29194812.79 29194812.94 29194813.09 0.0276 0.0022

Saturn 75220-10-28 00:29 G 29194901.38 29194901.52 29194901.65 0.0276 0.0109

Saturn 75221-01-24 14:24 G 29194990.04 29194990.10 29194990.18 0.0276 0.0243

Jupiter 75221-07-19 23:31 G 29195166.34 29195166.48 29195166.63 0.0489 0.0103

Venus 75224-08-02 22:05 G 29196276.30 29196276.42 29196276.54 0.3711 0.1151

Neptune 75227-09-20 23:46 G 29197420.48 29197420.49 29197420.53 0.0090 0.0089

Jupiter 75227-09-21 15:22 G 29197421.00 29197421.14 29197421.29 0.0539 0.0151

Neptune 75227-12-18 02:24 G 29197508.53 29197508.60 29197508.68 0.0090 0.0079

Neptune 75228-03-15 04:48 G 29197596.61 29197596.70 29197596.81 0.0090 0.0070

Moon 75228-04-19 09:22 G 29197631.79 29197631.89 29197631.99 0.2627 0.1626

Earth 75228-04-19 10:19 G 29197631.83 29197631.93 29197632.03 0.2629 0.1678 *

Neptune 75228-06-11 06:58 G 29197684.69 29197684.79 29197684.92 0.0090 0.0061

Neptune 75228-09-07 09:22 G 29197772.77 29197772.89 29197773.03 0.0090 0.0052

Mars 75228-11-26 14:24 G 29197852.95 29197853.10 29197853.25 0.1762 0.0341

Neptune 75228-12-04 11:46 G 29197860.86 29197860.99 29197861.14 0.0090 0.0042

Neptune 75229-03-02 13:55 G 29197948.94 29197949.08 29197949.24 0.0090 0.0034

Neptune 75229-05-29 16:19 G 29198037.03 29198037.18 29198037.34 0.0090 0.0025

Neptune 75229-08-25 18:43 G 29198125.13 29198125.28 29198125.44 0.0090 0.0015

Neptune 75229-11-21 21:07 G 29198213.22 29198213.38 29198213.54 0.0090 0.0006

Mars 75229-12-18 12:43 G 29198239.91 29198240.03 29198240.14 0.1771 0.0624

Venus 75230-02-16 20:10 G 29198300.27 29198300.34 29198300.40 0.3709 0.3183

Neptune 75230-02-17 23:17 G 29198301.31 29198301.47 29198301.63 0.0090 0.0003

Neptune 75230-05-17 01:27 G 29198389.41 29198389.56 29198389.72 0.0090 0.0012

Neptune 75230-08-13 03:51 G 29198477.50 29198477.66 29198477.81 0.0090 0.0021

Neptune 75230-11-09 05:46 G 29198565.60 29198565.74 29198565.90 0.0090 0.0030

Neptune 75231-02-05 07:55 G 29198653.70 29198653.83 29198653.98 0.0090 0.0039

Neptune 75231-05-04 10:19 G 29198741.80 29198741.93 29198742.07 0.0090 0.0047

Neptune 75231-07-31 12:29 G 29198829.90 29198830.02 29198830.15 0.0090 0.0056

Neptune 75231-10-27 14:24 G 29198918.01 29198918.10 29198918.22 0.0090 0.0065

Neptune 75232-01-23 16:48 G 29199006.12 29199006.20 29199006.29 0.0090 0.0073

Neptune 75232-04-20 18:43 G 29199094.23 29199094.28 29199094.36 0.0090 0.0082

Earth 75232-10-13 06:00 G 29199269.63 29199269.75 29199269.87 0.2704 0.0905

Moon 75232-10-13 06:58 G 29199269.67 29199269.79 29199269.92 0.2705 0.0749 *

Jupiter 75233-05-08 02:39 G 29199476.47 29199476.61 29199476.76 0.0490 0.0056

Saturn 75234-06-16 16:19 G 29199881.11 29199881.18 29199881.26 0.0284 0.0254

Saturn 75234-09-13 10:19 G 29199969.78 29199969.93 29199970.09 0.0284 0.0095

Saturn 75234-12-11 04:05 G 29200058.51 29200058.67 29200058.83 0.0283 0.0060

Saturn 75235-03-09 21:07 G 29200147.28 29200147.38 29200147.49 0.0283 0.0211

Earth 75235-04-12 22:19 G 29200181.37 29200181.43 29200181.49 0.2628 0.2248

Moon 75235-04-12 23:03 G 29200181.39 29200181.46 29200181.54 0.2623 0.2126 *

Venus 75237-03-14 19:12 G 29200883.21 29200883.30 29200883.38 0.3660 0.2524

Mars 75238-04-18 15:07 G 29201283.04 29201283.13 29201283.22 0.1769 0.1405

Mars 75239-05-10 21:22 G 29201670.27 29201670.39 29201670.51 0.1765 0.0086

Jupiter 75239-07-10 15:22 G 29201730.99 29201731.14 29201731.29 0.0538 0.0080

Venus 75242-09-28 13:55 G 29202906.96 29202907.08 29202907.19 0.3661 0.0780

Jupiter 75245-02-24 05:46 G 29203786.61 29203786.74 29203786.88 0.0490 0.0214

Jupiter 75245-05-24 16:34 G 29203876.13 29203876.19 29203876.25 0.0488 0.0440

Earth 75245-10-16 04:19 G 29204020.56 29204020.68 29204020.80 0.2704 0.0638

Moon 75245-10-16 05:17 G 29204020.59 29204020.72 29204020.84 0.2700 0.0659 *

Earth 75248-04-14 19:41 G 29204932.20 29204932.32 29204932.45 0.2628 0.0898

Moon 75248-04-14 19:55 G 29204932.21 29204932.33 29204932.46 0.2622 0.0935 *

Mars 75248-09-30 06:00 G 29205100.64 29205100.75 29205100.86 0.1758 0.0780

Mars 75249-08-15 11:03 G 29205419.95 29205419.96 29205419.99 0.1748 0.1727

Saturn 75249-09-20 22:48 G 29205456.34 29205456.45 29205456.56 0.0275 0.0183

Saturn 75249-12-18 12:15 G 29205544.87 29205545.01 29205545.15 0.0276 0.0058

Saturn 75250-03-17 01:55 G 29205633.44 29205633.58 29205633.72 0.0276 0.0071

Saturn 75250-06-13 15:51 G 29205722.06 29205722.16 29205722.26 0.0276 0.0204

Jupiter 75251-04-28 15:36 G 29206041.02 29206041.15 29206041.28 0.0538 0.0304

Jupiter 75256-12-13 09:07 G 29208096.78 29208096.88 29208096.97 0.0491 0.0371

Jupiter 75257-03-12 19:27 G 29208186.19 29208186.31 29208186.43 0.0489 0.0277

Uranus 75257-06-07 13:55 G 29208273.01 29208273.08 29208273.17 0.0144 0.0121

Uranus 75257-09-03 18:58 G 29208361.18 29208361.29 29208361.41 0.0144 0.0097

Uranus 75257-12-01 00:00 G 29208449.37 29208449.50 29208449.64 0.0144 0.0072

Mars 75258-02-20 15:07 G 29208531.06 29208531.13 29208531.20 0.1752 0.1445

Uranus 75258-02-27 05:03 G 29208537.57 29208537.71 29208537.86 0.0144 0.0048

Uranus 75258-05-26 10:19 G 29208625.77 29208625.93 29208626.08 0.0144 0.0023

Uranus 75258-08-22 15:22 G 29208713.99 29208714.14 29208714.30 0.0144 0.0002

Earth 75258-10-19 02:24 G 29208771.52 29208771.60 29208771.67 0.2703 0.2121

Moon 75258-10-19 02:39 G 29208771.54 29208771.61 29208771.68 0.2696 0.2223 *

Uranus 75258-11-18 20:24 G 29208802.20 29208802.35 29208802.51 0.0144 0.0028

Mars 75259-01-05 13:12 G 29208849.92 29208850.05 29208850.19 0.1755 0.0776

Uranus 75259-02-15 01:41 G 29208890.43 29208890.57 29208890.72 0.0144 0.0053

Uranus 75259-05-14 06:58 G 29208978.66 29208978.79 29208978.92 0.0143 0.0078

Uranus 75259-08-10 12:15 G 29209066.91 29209067.01 29209067.12 0.0143 0.0104

Uranus 75259-11-06 17:31 G 29209155.17 29209155.23 29209155.30 0.0143 0.0130

Mars 75260-01-27 04:34 G 29209236.62 29209236.69 29209236.76 0.1778 0.1460

Moon 75261-04-17 17:03 G 29209683.08 29209683.21 29209683.34 0.2623 0.0530

Earth 75261-04-17 17:31 G 29209683.10 29209683.23 29209683.36 0.2629 0.0509 *

Jupiter 75263-02-14 15:51 G 29210351.13 29210351.16 29210351.19 0.0537 0.0525

Jupiter 75263-05-15 14:24 G 29210441.00 29210441.10 29210441.20 0.0540 0.0399

Saturn 75264-01-31 09:36 G 29210701.76 29210701.90 29210702.03 0.0284 0.0151

Saturn 75264-04-29 03:22 G 29210790.48 29210790.64 29210790.80 0.0283 0.0008

Saturn 75264-07-26 20:24 G 29210879.23 29210879.35 29210879.49 0.0283 0.0158

Earth 75265-10-11 12:43 G 29211320.96 29211321.03 29211321.11 0.2705 0.2199

Moon 75265-10-11 13:41 G 29211320.99 29211321.07 29211321.14 0.2709 0.2152 *

Mars 75268-05-27 14:39 G 29212279.96 29212280.11 29212280.26 0.1762 0.0233

Jupiter 75268-12-29 21:51 G 29212496.26 29212496.41 29212496.55 0.0489 0.0105

Mars 75269-06-18 12:43 G 29212666.92 29212667.03 29212667.15 0.1772 0.0716

Moon 75274-04-20 14:39 G 29214434.02 29214434.11 29214434.21 0.2629 0.1785

Earth 75274-04-20 15:36 G 29214434.07 29214434.15 29214434.24 0.2630 0.1964 *

Jupiter 75275-03-03 14:24 G 29214750.96 29214751.10 29214751.25 0.0539 0.0173

Mars 75277-10-17 15:51 G 29215710.05 29215710.16 29215710.26 0.1769 0.1272

Earth 75278-10-14 11:31 G 29216071.85 29216071.98 29216072.10 0.2704 0.0612

Moon 75278-10-14 12:29 G 29216071.90 29216072.02 29216072.15 0.2705 0.0524 *

Mars 75278-11-08 21:22 G 29216097.27 29216097.39 29216097.51 0.1765 0.0032

Saturn 75279-02-08 01:12 G 29216188.46 29216188.55 29216188.64 0.0275 0.0214

Saturn 75279-05-07 14:39 G 29216276.97 29216277.11 29216277.25 0.0276 0.0088

Saturn 75279-08-04 04:19 G 29216365.53 29216365.68 29216365.83 0.0276 0.0040

Saturn 75279-10-31 18:15 G 29216454.14 29216454.26 29216454.38 0.0276 0.0172

Jupiter 75280-10-18 00:43 G 29216806.38 29216806.53 29216806.67 0.0490 0.0058

Venus 75281-03-09 21:22 G 29216949.26 29216949.39 29216949.51 0.3710 0.0455

Earth 75281-04-13 03:36 G 29216983.57 29216983.65 29216983.73 0.2628 0.1992

Moon 75281-04-13 04:19 G 29216983.60 29216983.68 29216983.77 0.2623 0.1934 *

Jupiter 75286-12-20 13:12 G 29219060.90 29219061.05 29219061.21 0.0538 0.0082

Mars 75288-03-31 06:00 G 29219527.64 29219527.75 29219527.86 0.1758 0.0701

Earth 75291-10-17 09:51 G 29220822.79 29220822.91 29220823.03 0.2704 0.0926

Moon 75291-10-17 10:34 G 29220822.82 29220822.94 29220823.05 0.2698 0.1051 *

Jupiter 75292-08-06 04:05 G 29221116.54 29221116.67 29221116.80 0.0490 0.0213

Jupiter 75292-11-03 14:39 G 29221206.05 29221206.11 29221206.18 0.0489 0.0442

Saturn 75293-06-19 12:15 G 29221433.89 29221434.01 29221434.14 0.0284 0.0174

Saturn 75293-09-16 06:15 G 29221522.60 29221522.76 29221522.92 0.0284 0.0017

Venus 75293-10-19 17:17 G 29221556.11 29221556.22 29221556.33 0.3660 0.1313

Saturn 75293-12-13 23:31 G 29221611.34 29221611.48 29221611.62 0.0283 0.0136

Moon 75294-04-16 01:12 G 29221734.42 29221734.55 29221734.67 0.2622 0.0591

Earth 75294-04-16 01:12 G 29221734.42 29221734.55 29221734.67 0.2628 0.0631 *

Mars 75297-08-21 15:07 G 29222958.06 29222958.13 29222958.20 0.1752 0.1362

Mars 75298-07-06 13:41 G 29223276.94 29223277.07 29223277.20 0.1755 0.0889

Jupiter 75298-10-08 12:58 G 29223370.92 29223371.04 29223371.17 0.0538 0.0315

Venus 75299-05-05 12:00 G 29223579.91 29223580.00 29223580.10 0.3662 0.2022

Mars 75299-07-28 04:34 G 29223663.63 29223663.69 29223663.75 0.1778 0.1541

Uranus 75300-03-20 07:27 G 29223898.78 29223898.81 29223898.87 0.0134 0.0128

Uranus 75300-06-16 12:29 G 29223986.93 29223987.02 29223987.13 0.0134 0.0106

Uranus 75300-09-12 17:31 G 29224075.11 29224075.23 29224075.36 0.0134 0.0084

Uranus 75300-12-09 22:19 G 29224163.29 29224163.43 29224163.58 0.0134 0.0062

Uranus 75301-03-08 03:07 G 29224251.48 29224251.63 29224251.79 0.0134 0.0041

Uranus 75301-06-04 07:55 G 29224339.67 29224339.83 29224339.99 0.0135 0.0020

Uranus 75301-08-31 12:43 G 29224427.87 29224428.03 29224428.19 0.0135 0.0002

Uranus 75301-11-27 17:17 G 29224516.07 29224516.22 29224516.38 0.0135 0.0023

Uranus 75302-02-23 22:05 G 29224604.27 29224604.42 29224604.57 0.0135 0.0044

Uranus 75302-05-23 02:39 G 29224692.47 29224692.61 29224692.75 0.0135 0.0065

Uranus 75302-08-19 06:58 G 29224780.68 29224780.79 29224780.92 0.0135 0.0086

Uranus 75302-11-15 11:46 G 29224868.90 29224868.99 29224869.09 0.0135 0.0106

Uranus 75303-02-11 16:19 G 29224957.13 29224957.18 29224957.23 0.0135 0.0126

Jupiter 75304-05-26 07:12 G 29225426.71 29225426.80 29225426.89 0.0491 0.0370

Jupiter 75304-08-23 17:31 G 29225516.11 29225516.23 29225516.35 0.0489 0.0279

Moon 75304-10-20 07:55 G 29225573.77 29225573.83 29225573.89 0.2696 0.2338

Earth 75304-10-20 07:41 G 29225573.77 29225573.82 29225573.88 0.2703 0.2406 *

Moon 75307-04-19 22:19 G 29226485.31 29226485.43 29226485.56 0.2623 0.0650

Earth 75307-04-19 23:03 G 29226485.33 29226485.46 29226485.58 0.2629 0.0788 *

Mars 75307-11-27 15:22 G 29226706.98 29226707.14 29226707.29 0.1762 0.0105

Saturn 75308-06-28 03:07 G 29226920.57 29226920.63 29226920.70 0.0275 0.0247

Saturn 75308-09-24 16:19 G 29227009.06 29227009.18 29227009.32 0.0275 0.0123

Mars 75308-12-18 12:43 G 29227093.93 29227094.03 29227094.14 0.1771 0.0803

Saturn 75308-12-22 06:00 G 29227097.60 29227097.75 29227097.90 0.0276 0.0005

Saturn 75309-03-20 19:41 G 29227186.20 29227186.32 29227186.45 0.0276 0.0135

Saturn 75309-06-17 09:51 G 29227274.88 29227274.91 29227274.95 0.0277 0.0268

Neptune 75310-06-04 00:43 G 29227626.50 29227626.53 29227626.58 0.0088 0.0085

Neptune 75310-08-31 02:39 G 29227714.55 29227714.61 29227714.69 0.0088 0.0077

Jupiter 75310-10-26 11:31 G 29227770.88 29227770.98 29227771.09 0.0540 0.0384

Neptune 75310-11-27 04:34 G 29227802.61 29227802.69 29227802.79 0.0088 0.0069

Neptune 75311-02-23 06:43 G 29227890.67 29227890.78 29227890.89 0.0088 0.0061

Neptune 75311-05-22 08:39 G 29227978.74 29227978.86 29227978.98 0.0088 0.0053

Neptune 75311-08-18 10:34 G 29228066.81 29228066.94 29228067.08 0.0088 0.0045

Earth 75311-10-13 18:15 G 29228123.17 29228123.26 29228123.35 0.2705 0.1901

Moon 75311-10-13 19:12 G 29228123.20 29228123.30 29228123.40 0.2708 0.1739 *

Neptune 75311-11-14 12:29 G 29228154.89 29228155.02 29228155.17 0.0088 0.0037

Neptune 75312-02-10 14:24 G 29228242.96 29228243.10 29228243.25 0.0088 0.0029

Neptune 75312-05-08 16:34 G 29228331.04 29228331.19 29228331.34 0.0088 0.0021

Neptune 75312-08-04 18:29 G 29228419.12 29228419.27 29228419.43 0.0088 0.0013

Neptune 75312-10-31 20:39 G 29228507.20 29228507.36 29228507.51 0.0088 0.0005

Neptune 75313-01-27 22:34 G 29228595.28 29228595.44 29228595.60 0.0088 0.0004

Neptune 75313-04-26 00:29 G 29228683.37 29228683.52 29228683.68 0.0088 0.0012

Neptune 75313-07-23 02:24 G 29228771.46 29228771.60 29228771.76 0.0088 0.0021

Neptune 75313-10-19 04:34 G 29228859.55 29228859.69 29228859.84 0.0088 0.0029

Neptune 75314-01-15 06:43 G 29228947.64 29228947.78 29228947.92 0.0088 0.0037

Neptune 75314-04-13 08:39 G 29229035.73 29229035.86 29229036.00 0.0088 0.0045

Neptune 75314-07-10 10:34 G 29229123.83 29229123.94 29229124.08 0.0088 0.0054

Neptune 75314-10-06 12:58 G 29229211.93 29229212.04 29229212.15 0.0088 0.0062

Neptune 75315-01-02 14:53 G 29229300.04 29229300.12 29229300.22 0.0088 0.0071

Neptune 75315-03-31 17:03 G 29229388.15 29229388.21 29229388.28 0.0088 0.0079

Neptune 75315-06-27 19:12 G 29229476.30 29229476.30 29229476.31 0.0088 0.0088

Jupiter 75316-06-11 20:24 G 29229826.21 29229826.35 29229826.50 0.0489 0.0118

Mars 75317-04-18 16:19 G 29230137.06 29230137.18 29230137.29 0.1769 0.1155

Mars 75318-05-10 21:22 G 29230524.27 29230524.39 29230524.51 0.1765 0.0081

Moon 75320-04-21 19:55 G 29231236.26 29231236.33 29231236.40 0.2629 0.2212

Earth 75320-04-21 21:07 G 29231236.31 29231236.38 29231236.45 0.2629 0.2241 *

Jupiter 75322-08-14 12:29 G 29232080.87 29232081.02 29232081.16 0.0539 0.0171

Saturn 75322-11-07 11:17 G 29232165.88 29232165.97 29232166.06 0.0284 0.0231

Saturn 75323-02-04 05:17 G 29232254.56 29232254.72 29232254.88 0.0283 0.0073

Saturn 75323-05-03 22:48 G 29232343.30 29232343.45 29232343.61 0.0283 0.0081

Saturn 75323-07-31 16:05 G 29232432.08 29232432.17 29232432.26 0.0283 0.0231

Earth 75324-10-15 16:48 G 29232874.08 29232874.20 29232874.33 0.2704 0.0330

Moon 75324-10-15 18:00 G 29232874.12 29232874.25 29232874.38 0.2704 0.0213 *

Earth 75327-04-15 08:53 G 29233785.78 29233785.87 29233785.97 0.2628 0.1731

Moon 75327-04-15 09:36 G 29233785.80 29233785.90 29233786.00 0.2623 0.1653 *

Mars 75327-10-01 06:00 G 29233954.64 29233954.75 29233954.87 0.1758 0.0617

Jupiter 75328-03-30 23:03 G 29234136.31 29234136.46 29234136.61 0.0490 0.0053

Venus 75332-03-31 22:19 G 29235598.34 29235598.43 29235598.53 0.3711 0.2395

Jupiter 75334-06-02 12:29 G 29236390.87 29236391.02 29236391.17 0.0538 0.0058

Mars 75337-02-20 15:07 G 29237385.05 29237385.13 29237385.21 0.1752 0.1286

Venus 75337-10-15 20:24 G 29237622.25 29237622.35 29237622.45 0.3710 0.2023

Earth 75337-10-18 15:07 G 29237625.02 29237625.13 29237625.25 0.2704 0.1213

Moon 75337-10-18 15:51 G 29237625.05 29237625.16 29237625.27 0.2698 0.1240 *

Mars 75338-01-05 14:10 G 29237703.97 29237704.09 29237704.22 0.1755 0.1009

Saturn 75338-02-11 18:15 G 29237741.15 29237741.26 29237741.39 0.0275 0.0158

Saturn 75338-05-11 07:55 G 29237829.68 29237829.83 29237829.97 0.0276 0.0031

Saturn 75338-08-07 21:36 G 29237918.26 29237918.40 29237918.54 0.0276 0.0099

Saturn 75338-11-04 11:31 G 29238006.91 29238006.98 29238007.07 0.0276 0.0233

Mars 75339-01-27 04:34 G 29238090.64 29238090.69 29238090.74 0.1778 0.1626

Pluto 75339-12-17 19:12 G 29238415.29 29238415.30 29238415.35 0.0064 0.0063

Jupiter 75340-01-18 01:55 G 29238446.46 29238446.58 29238446.72 0.0490 0.0215

Pluto 75340-03-14 20:10 G 29238503.27 29238503.34 29238503.45 0.0064 0.0052

Jupiter 75340-04-16 12:43 G 29238535.97 29238536.03 29238536.09 0.0488 0.0441

Moon 75340-04-17 06:29 G 29238536.64 29238536.77 29238536.89 0.2621 0.0415

Earth 75340-04-17 06:29 G 29238536.64 29238536.77 29238536.90 0.2628 0.0360 *

Pluto 75340-06-10 21:07 G 29238591.27 29238591.38 29238591.51 0.0064 0.0041

Pluto 75340-09-06 21:51 G 29238679.28 29238679.41 29238679.56 0.0064 0.0031

Pluto 75340-12-03 22:48 G 29238767.31 29238767.45 29238767.61 0.0064 0.0020

Pluto 75341-03-01 23:46 G 29238855.34 29238855.49 29238855.65 0.0064 0.0009

Uranus 75341-04-01 16:48 G 29238886.16 29238886.20 29238886.25 0.0144 0.0136

Pluto 75341-05-29 00:43 G 29238943.37 29238943.53 29238943.69 0.0064 0.0002

Uranus 75341-06-28 21:36 G 29238974.31 29238974.40 29238974.50 0.0144 0.0112

Pluto 75341-08-25 01:27 G 29239031.41 29239031.56 29239031.72 0.0064 0.0013

Uranus 75341-09-25 02:39 G 29239062.49 29239062.61 29239062.73 0.0144 0.0088

Pluto 75341-11-21 02:10 G 29239119.45 29239119.59 29239119.74 0.0064 0.0024

Uranus 75341-12-22 07:41 G 29239150.69 29239150.82 29239150.96 0.0144 0.0063

Pluto 75342-02-17 02:53 G 29239207.50 29239207.62 29239207.76 0.0064 0.0035

Uranus 75342-03-20 12:43 G 29239238.89 29239239.03 29239239.18 0.0144 0.0038

Pluto 75342-05-16 03:36 G 29239295.55 29239295.65 29239295.78 0.0065 0.0046

Uranus 75342-06-16 18:00 G 29239327.09 29239327.25 29239327.40 0.0144 0.0014

Pluto 75342-08-12 04:19 G 29239383.63 29239383.68 29239383.77 0.0065 0.0057

Uranus 75342-09-12 23:03 G 29239415.31 29239415.46 29239415.61 0.0144 0.0012

Uranus 75342-12-10 04:19 G 29239503.53 29239503.68 29239503.83 0.0144 0.0037

Uranus 75343-03-08 09:22 G 29239591.75 29239591.89 29239592.03 0.0144 0.0062

Uranus 75343-06-04 14:39 G 29239679.99 29239680.11 29239680.24 0.0143 0.0088

Uranus 75343-08-31 19:55 G 29239768.24 29239768.33 29239768.43 0.0143 0.0113

Uranus 75343-11-28 00:58 G 29239856.52 29239856.54 29239856.59 0.0143 0.0140

Venus 75344-11-10 20:53 G 29240205.33 29240205.37 29240205.42 0.3659 0.3334

Jupiter 75346-03-21 11:03 G 29240700.84 29240700.96 29240701.09 0.0537 0.0313

Mars 75347-05-28 15:51 G 29241134.01 29241134.16 29241134.32 0.1762 0.0035

Mars 75348-06-18 12:43 G 29241520.93 29241521.03 29241521.14 0.1771 0.0878

Venus 75350-05-27 15:36 G 29242229.03 29242229.15 29242229.26 0.3660 0.0143

Earth 75350-10-21 13:12 G 29242376.03 29242376.05 29242376.06 0.2703 0.2681

Jupiter 75351-11-06 05:31 G 29242756.63 29242756.73 29242756.82 0.0491 0.0368

Jupiter 75352-02-03 15:51 G 29242846.04 29242846.16 29242846.28 0.0489 0.0281

Saturn 75352-03-26 13:41 G 29242898.01 29242898.07 29242898.14 0.0284 0.0258

Saturn 75352-06-23 07:55 G 29242986.68 29242986.83 29242986.98 0.0284 0.0098

Saturn 75352-09-20 01:27 G 29243075.41 29243075.56 29243075.72 0.0283 0.0058

Saturn 75352-12-17 18:43 G 29243164.18 29243164.28 29243164.39 0.0283 0.0207

Moon 75353-04-20 03:36 G 29243287.53 29243287.65 29243287.77 0.2625 0.1038

Earth 75353-04-20 04:19 G 29243287.56 29243287.68 29243287.80 0.2629 0.1059 *

Venus 75355-12-11 10:19 G 29244252.88 29244252.93 29244252.98 0.3662 0.3286

Mars 75356-10-17 16:48 G 29244564.07 29244564.20 29244564.32 0.1769 0.1029

Earth 75357-10-13 23:46 G 29244925.39 29244925.49 29244925.59 0.2705 0.1596

Moon 75357-10-14 00:43 G 29244925.43 29244925.53 29244925.64 0.2708 0.1566 *

Mars 75357-11-08 21:22 G 29244951.27 29244951.39 29244951.51 0.1765 0.0162

Jupiter 75358-04-07 09:07 G 29245100.78 29245100.88 29245100.99 0.0539 0.0376

Jupiter 75363-11-22 18:58 G 29247156.14 29247156.29 29247156.43 0.0489 0.0121

Moon 75366-04-23 01:27 G 29248038.50 29248038.56 29248038.62 0.2630 0.2325

Earth 75366-04-23 02:39 G 29248038.57 29248038.61 29248038.64 0.2630 0.2530 *

Mars 75367-04-01 06:00 G 29248381.64 29248381.75 29248381.87 0.1758 0.0533

Saturn 75367-07-01 20:10 G 29248473.24 29248473.34 29248473.45 0.0275 0.0191

Saturn 75367-09-28 09:36 G 29248561.76 29248561.90 29248562.05 0.0275 0.0066

Saturn 75367-12-25 23:17 G 29248650.33 29248650.47 29248650.62 0.0276 0.0063

Saturn 75368-03-23 13:12 G 29248738.95 29248739.05 29248739.16 0.0276 0.0195

Jupiter 75370-01-24 09:36 G 29249410.76 29249410.90 29249411.05 0.0539 0.0156

Earth 75370-10-16 22:19 G 29249676.30 29249676.43 29249676.56 0.2704 0.0026

Moon 75370-10-16 23:17 G 29249676.34 29249676.47 29249676.60 0.2702 0.0115 *

Earth 75373-04-15 14:10 G 29250587.99 29250588.09 29250588.20 0.2628 0.1474

Moon 75373-04-15 14:39 G 29250588.00 29250588.11 29250588.22 0.2623 0.1396 *

Jupiter 75375-09-10 21:51 G 29251466.27 29251466.41 29251466.56 0.0490 0.0042

Mars 75376-08-21 15:07 G 29251812.04 29251812.13 29251812.21 0.1752 0.1202

Mars 75377-07-06 14:39 G 29252131.00 29252131.11 29252131.23 0.1755 0.1123

Mars 75378-07-28 04:34 G 29252517.66 29252517.69 29252517.72 0.1778 0.1713

Saturn 75381-11-10 06:43 G 29253718.65 29253718.78 29253718.92 0.0284 0.0156

Jupiter 75381-11-12 10:19 G 29253720.78 29253720.93 29253721.09 0.0538 0.0060

Saturn 75382-02-07 00:43 G 29253807.36 29253807.53 29253807.69 0.0283 0.0007

Saturn 75382-05-06 18:00 G 29253896.12 29253896.25 29253896.38 0.0283 0.0153

Earth 75383-10-19 20:39 G 29254427.25 29254427.36 29254427.46 0.2703 0.1495

Moon 75383-10-19 21:07 G 29254427.28 29254427.38 29254427.48 0.2698 0.1575 *

Uranus 75384-04-09 15:22 G 29254600.08 29254600.14 29254600.23 0.0134 0.0118

Uranus 75384-07-06 20:24 G 29254688.25 29254688.35 29254688.47 0.0134 0.0096

Uranus 75384-10-03 01:27 G 29254776.43 29254776.56 29254776.70 0.0134 0.0074

Uranus 75384-12-30 06:15 G 29254864.62 29254864.76 29254864.91 0.0134 0.0052

Uranus 75385-03-28 11:03 G 29254952.81 29254952.96 29254953.12 0.0134 0.0031

Uranus 75385-06-24 15:51 G 29255041.00 29255041.16 29255041.32 0.0135 0.0010

Uranus 75385-09-20 20:39 G 29255129.20 29255129.36 29255129.52 0.0135 0.0012

Uranus 75385-12-18 01:12 G 29255217.40 29255217.55 29255217.71 0.0135 0.0033

Uranus 75386-03-16 05:46 G 29255305.60 29255305.74 29255305.89 0.0135 0.0054

Moon 75386-04-18 11:46 G 29255338.86 29255338.99 29255339.12 0.2622 0.0105

Earth 75386-04-18 12:00 G 29255338.87 29255339.00 29255339.13 0.2628 0.0116 *

Uranus 75386-06-12 10:19 G 29255393.81 29255393.93 29255394.07 0.0135 0.0075

Uranus 75386-09-08 15:07 G 29255482.02 29255482.13 29255482.24 0.0135 0.0095

Mars 75386-11-26 16:19 G 29255561.03 29255561.18 29255561.33 0.1762 0.0132

Uranus 75386-12-05 19:27 G 29255570.24 29255570.31 29255570.40 0.0135 0.0116

Jupiter 75387-06-30 00:29 G 29255776.39 29255776.52 29255776.66 0.0490 0.0207

Jupiter 75387-09-27 11:17 G 29255865.91 29255865.97 29255866.03 0.0488 0.0447

Mars 75387-12-18 12:43 G 29255947.93 29255948.03 29255948.14 0.1771 0.0964

Venus 75388-11-05 21:36 G 29256271.27 29256271.40 29256271.52 0.3711 0.0789

Neptune 75392-06-17 22:19 G 29257591.39 29257591.43 29257591.47 0.0090 0.0086

Neptune 75392-09-14 00:29 G 29257679.45 29257679.52 29257679.61 0.0090 0.0077

Neptune 75392-12-11 02:39 G 29257767.52 29257767.61 29257767.73 0.0090 0.0068

Neptune 75393-03-09 05:03 G 29257855.60 29257855.71 29257855.84 0.0090 0.0059

Neptune 75393-06-05 07:27 G 29257943.69 29257943.81 29257943.95 0.0090 0.0049

Jupiter 75393-08-31 10:19 G 29258030.80 29258030.93 29258031.07 0.0538 0.0288

Neptune 75393-09-01 10:05 G 29258031.77 29258031.92 29258032.06 0.0090 0.0040

Neptune 75393-11-28 12:15 G 29258119.86 29258120.01 29258120.16 0.0090 0.0031

Neptune 75394-02-24 14:39 G 29258207.95 29258208.11 29258208.27 0.0090 0.0022

Venus 75394-05-22 19:27 G 29258295.28 29258295.31 29258295.34 0.3710 0.3569

Neptune 75394-05-23 16:48 G 29258296.05 29258296.20 29258296.36 0.0090 0.0013

Neptune 75394-08-19 19:12 G 29258384.14 29258384.30 29258384.46 0.0090 0.0004

Neptune 75394-11-15 21:22 G 29258472.24 29258472.39 29258472.55 0.0090 0.0006

Neptune 75395-02-11 23:31 G 29258560.33 29258560.48 29258560.65 0.0090 0.0015

Neptune 75395-05-11 01:55 G 29258648.43 29258648.58 29258648.73 0.0090 0.0023

Neptune 75395-08-07 04:05 G 29258736.53 29258736.67 29258736.82 0.0090 0.0032

Neptune 75395-11-03 06:15 G 29258824.63 29258824.76 29258824.91 0.0090 0.0041

Neptune 75396-01-30 08:24 G 29258912.73 29258912.85 29258912.99 0.0090 0.0050

Mars 75396-04-17 17:31 G 29258991.10 29258991.23 29258991.36 0.1769 0.0896

Neptune 75396-04-27 10:34 G 29259000.83 29259000.94 29259001.07 0.0090 0.0058

Neptune 75396-07-24 12:58 G 29259088.94 29259089.04 29259089.14 0.0090 0.0067

Neptune 75396-10-20 14:53 G 29259177.05 29259177.12 29259177.21 0.0090 0.0076

Saturn 75396-11-17 21:36 G 29259205.33 29259205.40 29259205.48 0.0275 0.0230

Neptune 75397-01-16 17:17 G 29259265.17 29259265.22 29259265.27 0.0090 0.0084

Saturn 75397-02-14 11:03 G 29259293.83 29259293.96 29259294.10 0.0276 0.0105

Mars 75397-05-09 21:22 G 29259378.27 29259378.39 29259378.51 0.1765 0.0244

Saturn 75397-05-14 00:43 G 29259382.38 29259382.53 29259382.67 0.0276 0.0024

Saturn 75397-08-10 14:24 G 29259470.98 29259471.10 29259471.23 0.0276 0.0154

Jupiter 75399-04-18 03:51 G 29260086.56 29260086.66 29260086.75 0.0491 0.0365

Moon 75399-04-21 08:53 G 29260089.75 29260089.87 29260089.99 0.2626 0.1202

Earth 75399-04-21 09:51 G 29260089.80 29260089.91 29260090.02 0.2629 0.1340 *

Jupiter 75399-07-16 14:10 G 29260175.97 29260176.09 29260176.21 0.0489 0.0284

Venus 75401-06-18 18:58 G 29260878.20 29260878.29 29260878.39 0.3660 0.2152

Earth 75403-10-16 05:17 G 29261727.61 29261727.72 29261727.83 0.2705 0.1296

Moon 75403-10-16 06:15 G 29261727.64 29261727.76 29261727.88 0.2708 0.1112 *

Jupiter 75405-09-18 07:27 G 29262430.71 29262430.81 29262430.92 0.0539 0.0382

Earth 75406-04-14 22:19 G 29262639.40 29262639.43 29262639.46 0.2628 0.2547

Moon 75406-04-14 23:17 G 29262639.41 29262639.47 29262639.52 0.2625 0.2377 *

Mars 75406-10-01 06:00 G 29262808.63 29262808.75 29262808.87 0.1758 0.0456

Venus 75407-01-02 13:41 G 29262901.96 29262902.07 29262902.18 0.3661 0.1121

Saturn 75411-03-31 09:07 G 29264450.76 29264450.88 29264451.00 0.0284 0.0184

Jupiter 75411-05-05 17:17 G 29264486.08 29264486.22 29264486.36 0.0490 0.0126

Saturn 75411-06-28 03:07 G 29264539.47 29264539.63 29264539.79 0.0284 0.0027

Saturn 75411-09-24 20:24 G 29264628.21 29264628.35 29264628.50 0.0283 0.0127

Saturn 75411-12-22 13:12 G 29264717.03 29264717.05 29264717.10 0.0283 0.0276

Mars 75416-02-21 15:07 G 29266239.04 29266239.13 29266239.22 0.1752 0.1116

Earth 75416-10-18 03:51 G 29266478.53 29266478.66 29266478.79 0.2704 0.0273

Moon 75416-10-18 04:48 G 29266478.57 29266478.70 29266478.82 0.2700 0.0313 *

Mars 75417-01-05 15:22 G 29266558.03 29266558.14 29266558.24 0.1755 0.1240

Jupiter 75417-07-07 07:41 G 29266740.67 29266740.82 29266740.96 0.0539 0.0154

Earth 75419-04-17 19:41 G 29267390.20 29267390.32 29267390.43 0.2628 0.1206

Moon 75419-04-17 19:55 G 29267390.21 29267390.33 29267390.44 0.2622 0.1226 *

Jupiter 75423-02-21 20:24 G 29268796.20 29268796.35 29268796.50 0.0490 0.0033

Uranus 75425-04-23 00:00 G 29269587.44 29269587.50 29269587.57 0.0144 0.0128

Uranus 75425-07-20 05:03 G 29269675.61 29269675.71 29269675.82 0.0144 0.0104

Uranus 75425-10-16 10:05 G 29269763.80 29269763.92 29269764.05 0.0144 0.0080

Uranus 75426-01-12 15:07 G 29269851.99 29269852.13 29269852.27 0.0144 0.0055

Saturn 75426-04-07 23:46 G 29269937.46 29269937.49 29269937.54 0.0275 0.0262

Uranus 75426-04-10 20:10 G 29269940.19 29269940.34 29269940.49 0.0144 0.0030

Mars 75426-05-28 16:48 G 29269988.05 29269988.20 29269988.36 0.1762 0.0258

Saturn 75426-07-05 12:58 G 29270025.92 29270026.04 29270026.17 0.0275 0.0139

Uranus 75426-07-08 01:12 G 29270028.40 29270028.55 29270028.71 0.0144 0.0007

Saturn 75426-10-02 02:24 G 29270114.46 29270114.60 29270114.75 0.0276 0.0015

Uranus 75426-10-04 06:29 G 29270116.62 29270116.77 29270116.92 0.0144 0.0020

Saturn 75426-12-29 16:19 G 29270203.04 29270203.18 29270203.31 0.0276 0.0118

Uranus 75426-12-31 11:31 G 29270204.84 29270204.98 29270205.13 0.0144 0.0045

Saturn 75427-03-28 06:15 G 29270291.70 29270291.76 29270291.82 0.0276 0.0251

Uranus 75427-03-29 16:48 G 29270293.07 29270293.20 29270293.34 0.0144 0.0070

Mars 75427-06-19 12:58 G 29270374.94 29270375.04 29270375.14 0.1771 0.1053

Uranus 75427-06-25 22:05 G 29270381.31 29270381.42 29270381.54 0.0144 0.0096

Uranus 75427-09-22 03:22 G 29270469.56 29270469.64 29270469.72 0.0143 0.0122

Jupiter 75429-04-25 07:41 G 29271050.67 29271050.82 29271050.98 0.0538 0.0073

Pluto 75429-05-28 23:03 G 29271084.45 29271084.46 29271084.49 0.0081 0.0080

Pluto 75429-08-25 00:43 G 29271172.43 29271172.53 29271172.64 0.0081 0.0059

Earth 75429-10-21 01:55 G 29271229.49 29271229.58 29271229.67 0.2703 0.1777

Moon 75429-10-21 02:24 G 29271229.51 29271229.60 29271229.69 0.2697 0.1823 *

Pluto 75429-11-21 02:24 G 29271260.47 29271260.60 29271260.74 0.0080 0.0038

Pluto 75430-02-17 04:05 G 29271348.52 29271348.67 29271348.83 0.0080 0.0017

Pluto 75430-05-16 05:46 G 29271436.59 29271436.74 29271436.90 0.0080 0.0005

Pluto 75430-08-12 07:27 G 29271524.66 29271524.81 29271524.96 0.0080 0.0025

Pluto 75430-11-08 08:53 G 29271612.75 29271612.87 29271613.01 0.0080 0.0046

Pluto 75431-02-04 10:34 G 29271700.86 29271700.94 29271701.03 0.0080 0.0067

Moon 75432-04-19 17:03 G 29272141.07 29272141.21 29272141.34 0.2622 0.0177

Earth 75432-04-19 17:17 G 29272141.09 29272141.22 29272141.35 0.2628 0.0181 *

Jupiter 75434-12-10 23:31 G 29273106.35 29273106.48 29273106.62 0.0490 0.0191

Jupiter 75435-03-10 10:05 G 29273195.88 29273195.92 29273195.97 0.0488 0.0464

Mars 75435-10-18 17:46 G 29273418.10 29273418.24 29273418.38 0.1769 0.0785

Earth 75436-10-13 12:00 G 29273778.97 29273779.00 29273779.03 0.2705 0.2613

Moon 75436-10-13 12:43 G 29273778.98 29273779.03 29273779.08 0.2711 0.2470 *

Mars 75436-11-08 21:22 G 29273805.27 29273805.39 29273805.51 0.1765 0.0327

Venus 75439-11-28 22:19 G 29274920.42 29274920.43 29274920.44 0.3712 0.3686

Saturn 75440-08-17 07:27 G 29275182.74 29275182.81 29275182.90 0.0284 0.0244

Saturn 75440-11-14 01:41 G 29275271.42 29275271.57 29275271.73 0.0283 0.0085

Saturn 75441-02-10 19:27 G 29275360.15 29275360.31 29275360.46 0.0283 0.0070

Jupiter 75441-02-11 08:24 G 29275360.72 29275360.85 29275360.98 0.0538 0.0289

Saturn 75441-05-10 12:29 G 29275448.93 29275449.02 29275449.12 0.0283 0.0220

Moon 75445-04-22 14:10 G 29276891.98 29276892.09 29276892.20 0.2627 0.1532

Earth 75445-04-22 15:07 G 29276892.03 29276892.13 29276892.23 0.2629 0.1618 *

Venus 75445-06-13 20:39 G 29276944.24 29276944.36 29276944.48 0.3711 0.0816

Mars 75446-04-01 06:00 G 29277235.63 29277235.75 29277235.87 0.1758 0.0370

Jupiter 75446-09-29 02:24 G 29277416.50 29277416.60 29277416.70 0.0491 0.0355

Jupiter 75446-12-27 12:43 G 29277505.91 29277506.03 29277506.15 0.0489 0.0293

Earth 75449-10-16 10:48 G 29278529.83 29278529.95 29278530.07 0.2705 0.0999

Moon 75449-10-16 11:46 G 29278529.87 29278529.99 29278530.11 0.2706 0.0973 *

Earth 75452-04-15 03:36 G 29279441.59 29279441.65 29279441.71 0.2627 0.2288

Moon 75452-04-15 04:19 G 29279441.62 29279441.68 29279441.75 0.2625 0.2275 *

Jupiter 75452-11-30 08:24 G 29279670.81 29279670.85 29279670.89 0.0537 0.0516

Jupiter 75453-02-28 06:58 G 29279760.69 29279760.79 29279760.89 0.0539 0.0410

Mars 75455-08-22 14:53 G 29280666.03 29280666.12 29280666.22 0.1751 0.1044

Saturn 75455-11-22 13:55 G 29280757.97 29280758.08 29280758.19 0.0275 0.0182

Saturn 75456-02-19 03:22 G 29280846.50 29280846.64 29280846.78 0.0276 0.0056

Saturn 75456-05-17 17:03 G 29280935.07 29280935.21 29280935.35 0.0276 0.0073

Mars 75456-07-06 15:51 G 29280985.06 29280985.16 29280985.25 0.1755 0.1354

Saturn 75456-08-14 06:58 G 29281023.69 29281023.79 29281023.89 0.0276 0.0205

Venus 75458-01-23 17:17 G 29281551.10 29281551.22 29281551.33 0.3660 0.0976

Jupiter 75458-10-15 15:36 G 29281816.01 29281816.15 29281816.30 0.0489 0.0133

Earth 75462-10-19 09:07 G 29283280.76 29283280.88 29283281.01 0.2704 0.0564

Moon 75462-10-19 10:05 G 29283280.80 29283280.92 29283281.05 0.2700 0.0730 *

Venus 75463-08-09 12:00 G 29283574.91 29283575.00 29283575.09 0.3661 0.2370

Jupiter 75464-12-17 06:00 G 29284070.61 29284070.75 29284070.90 0.0538 0.0165

Mars 75465-01-12 00:15 G 29284096.48 29284096.51 29284096.53 0.1746 0.1688

Earth 75465-04-18 00:58 G 29284192.42 29284192.54 29284192.66 0.2628 0.0943

Moon 75465-04-18 01:12 G 29284192.43 29284192.55 29284192.67 0.2621 0.0852 *

Mars 75465-11-26 17:31 G 29284415.08 29284415.23 29284415.38 0.1762 0.0379

Mars 75466-12-18 12:43 G 29284801.94 29284802.03 29284802.13 0.1771 0.1124

Uranus 75468-02-02 18:43 G 29285213.24 29285213.28 29285213.33 0.0134 0.0128

Uranus 75468-04-30 23:46 G 29285301.40 29285301.49 29285301.59 0.0134 0.0107

Uranus 75468-07-28 04:34 G 29285389.57 29285389.69 29285389.82 0.0134 0.0085

Uranus 75468-10-24 09:22 G 29285477.76 29285477.89 29285478.04 0.0134 0.0064

Uranus 75469-01-20 14:24 G 29285565.95 29285566.10 29285566.25 0.0134 0.0042

Uranus 75469-04-18 19:12 G 29285654.14 29285654.30 29285654.46 0.0134 0.0021

Uranus 75469-07-16 00:00 G 29285742.34 29285742.50 29285742.66 0.0135 0.0003

Uranus 75469-10-12 04:34 G 29285830.53 29285830.69 29285830.85 0.0135 0.0022

Saturn 75470-01-04 09:07 G 29285914.86 29285914.88 29285914.92 0.0285 0.0278

Uranus 75470-01-08 09:07 G 29285918.74 29285918.88 29285919.04 0.0135 0.0043

Saturn 75470-04-03 03:36 G 29286003.50 29286003.65 29286003.80 0.0284 0.0117

Uranus 75470-04-06 13:41 G 29286006.94 29286007.07 29286007.22 0.0135 0.0064

Saturn 75470-06-30 21:22 G 29286092.23 29286092.39 29286092.55 0.0284 0.0039

Uranus 75470-07-03 18:15 G 29286095.15 29286095.26 29286095.39 0.0135 0.0085

Jupiter 75470-08-03 18:58 G 29286126.14 29286126.29 29286126.43 0.0490 0.0027

Saturn 75470-09-27 14:39 G 29286181.00 29286181.11 29286181.23 0.0283 0.0191

Uranus 75470-09-29 23:03 G 29286183.37 29286183.46 29286183.56 0.0135 0.0105

Uranus 75470-12-27 03:36 G 29286271.60 29286271.65 29286271.71 0.0135 0.0125

Neptune 75475-03-01 23:17 G 29287797.43 29287797.47 29287797.53 0.0088 0.0082

Mars 75475-04-18 18:29 G 29287845.13 29287845.27 29287845.41 0.1769 0.0656

Neptune 75475-05-29 01:12 G 29287885.48 29287885.55 29287885.64 0.0088 0.0074

Neptune 75475-08-25 03:22 G 29287973.54 29287973.64 29287973.74 0.0088 0.0066

Moon 75475-10-22 07:27 G 29288031.73 29288031.81 29288031.90 0.2697 0.2041

Earth 75475-10-22 07:27 G 29288031.73 29288031.81 29288031.89 0.2703 0.2064 *

Neptune 75475-11-21 05:17 G 29288061.61 29288061.72 29288061.84 0.0088 0.0058

Neptune 75476-02-17 07:12 G 29288149.68 29288149.80 29288149.93 0.0088 0.0050

Mars 75476-05-09 21:22 G 29288232.27 29288232.39 29288232.51 0.1765 0.0413

Neptune 75476-05-15 09:07 G 29288237.75 29288237.88 29288238.02 0.0088 0.0042

Neptune 75476-08-11 11:03 G 29288325.82 29288325.96 29288326.11 0.0088 0.0034

Jupiter 75476-10-05 06:00 G 29288380.60 29288380.75 29288380.90 0.0538 0.0068

Neptune 75476-11-07 13:12 G 29288413.90 29288414.05 29288414.19 0.0088 0.0026

Neptune 75477-02-03 15:07 G 29288501.98 29288502.13 29288502.28 0.0088 0.0018

Neptune 75477-05-02 17:03 G 29288590.06 29288590.21 29288590.37 0.0088 0.0010

Neptune 75477-07-29 18:58 G 29288678.14 29288678.29 29288678.45 0.0088 0.0003

Neptune 75477-10-25 21:07 G 29288766.22 29288766.38 29288766.53 0.0088 0.0007

Neptune 75478-01-21 23:03 G 29288854.31 29288854.46 29288854.62 0.0088 0.0015

Neptune 75478-04-20 00:58 G 29288942.39 29288942.54 29288942.70 0.0088 0.0023

Moon 75478-04-20 22:05 G 29288943.29 29288943.42 29288943.55 0.2623 0.0363

Earth 75478-04-20 22:34 G 29288943.32 29288943.44 29288943.57 0.2629 0.0462 *

Neptune 75478-07-17 02:53 G 29289030.48 29289030.62 29289030.78 0.0088 0.0032

Neptune 75478-10-13 05:03 G 29289118.57 29289118.71 29289118.85 0.0088 0.0040

Neptune 75479-01-09 06:58 G 29289206.67 29289206.79 29289206.93 0.0088 0.0048

Neptune 75479-04-07 08:53 G 29289294.77 29289294.87 29289295.01 0.0088 0.0057

Neptune 75479-07-04 11:03 G 29289382.87 29289382.96 29289383.08 0.0088 0.0065

Neptune 75479-09-30 13:12 G 29289470.97 29289471.05 29289471.14 0.0088 0.0073

Neptune 75479-12-27 15:07 G 29289559.09 29289559.13 29289559.20 0.0088 0.0082

Jupiter 75482-05-22 22:05 G 29290436.29 29290436.42 29290436.56 0.0491 0.0183

Jupiter 75482-08-20 08:53 G 29290525.83 29290525.87 29290525.90 0.0489 0.0473

Earth 75482-10-14 17:31 G 29290581.16 29290581.23 29290581.29 0.2705 0.2306

Moon 75482-10-14 18:15 G 29290581.19 29290581.26 29290581.33 0.2711 0.2288 *

Mars 75484-09-07 18:58 G 29291275.26 29291275.29 29291275.32 0.1776 0.1733

Saturn 75485-04-10 16:05 G 29291490.08 29291490.17 29291490.26 0.0275 0.0214

Saturn 75485-07-08 05:17 G 29291578.58 29291578.72 29291578.86 0.0275 0.0090

Mars 75485-09-30 06:00 G 29291662.63 29291662.75 29291662.87 0.1758 0.0288

Saturn 75485-10-04 18:43 G 29291667.14 29291667.28 29291667.43 0.0276 0.0039

Saturn 75486-01-01 08:39 G 29291755.74 29291755.86 29291755.98 0.0276 0.0168

Jupiter 75488-07-24 06:00 G 29292690.62 29292690.75 29292690.88 0.0538 0.0296

Moon 75491-04-23 19:41 G 29293694.22 29293694.32 29293694.41 0.2627 0.1779

Earth 75491-04-23 20:39 G 29293694.27 29293694.36 29293694.45 0.2629 0.1897 *

Jupiter 75494-03-11 01:27 G 29294746.46 29294746.56 29294746.67 0.0491 0.0338

Jupiter 75494-06-08 11:46 G 29294835.88 29294835.99 29294836.11 0.0489 0.0312

Mars 75495-02-20 15:07 G 29295093.03 29295093.13 29295093.23 0.1752 0.0959

Earth 75495-10-17 16:19 G 29295332.05 29295332.18 29295332.30 0.2705 0.0708

Moon 75495-10-17 17:17 G 29295332.09 29295332.22 29295332.34 0.2704 0.0513 *

Mars 75496-01-05 16:19 G 29295412.10 29295412.18 29295412.26 0.1755 0.1469

Venus 75496-07-04 21:36 G 29295593.29 29295593.40 29295593.50 0.3712 0.2063

Earth 75498-04-16 08:53 G 29296243.79 29296243.87 29296243.95 0.2628 0.2029

Moon 75498-04-16 09:36 G 29296243.81 29296243.90 29296243.99 0.2623 0.1886 *

Saturn 75499-08-21 02:24 G 29296735.47 29296735.60 29296735.72 0.0284 0.0176

Saturn 75499-11-17 20:10 G 29296824.18 29296824.34 29296824.51 0.0283 0.0020

Saturn 75500-02-14 13:41 G 29296912.93 29296913.07 29296913.21 0.0283 0.0134

Jupiter 75500-05-13 06:15 G 29297000.73 29297000.76 29297000.81 0.0537 0.0516

Saturn 75500-05-14 06:43 G 29297001.78 29297001.78 29297001.79 0.0282 0.0282

Jupiter 75500-08-11 05:03 G 29297090.62 29297090.71 29297090.81 0.0540 0.0412

Venus 75502-01-19 19:41 G 29297617.23 29297617.32 29297617.42 0.3711 0.2390

Mars 75504-07-14 00:15 G 29298523.46 29298523.51 29298523.55 0.1745 0.1606

Mars 75505-05-28 17:46 G 29298842.10 29298842.24 29298842.39 0.1762 0.0487

Jupiter 75506-03-28 14:24 G 29299145.96 29299146.10 29299146.25 0.0489 0.0145

Mars 75506-06-19 12:58 G 29299228.95 29299229.04 29299229.13 0.1771 0.1215

Earth 75508-10-20 14:39 G 29300082.99 29300083.11 29300083.23 0.2704 0.0849

Moon 75508-10-20 15:22 G 29300083.02 29300083.14 29300083.27 0.2700 0.0866 *

Venus 75509-02-14 20:53 G 29300200.30 29300200.37 29300200.43 0.3659 0.2985

Uranus 75509-02-15 03:07 G 29300200.61 29300200.63 29300200.66 0.0144 0.0142

Uranus 75509-05-14 07:55 G 29300288.76 29300288.83 29300288.93 0.0144 0.0118

Uranus 75509-08-10 12:58 G 29300376.93 29300377.04 29300377.16 0.0144 0.0094

Uranus 75509-11-06 18:00 G 29300465.12 29300465.25 29300465.39 0.0144 0.0069

Uranus 75510-02-02 23:03 G 29300553.32 29300553.46 29300553.61 0.0144 0.0045

Uranus 75510-05-02 04:05 G 29300641.52 29300641.67 29300641.83 0.0144 0.0020

Uranus 75510-07-29 09:22 G 29300729.73 29300729.89 29300730.04 0.0144 0.0006

Uranus 75510-10-25 14:24 G 29300817.95 29300818.10 29300818.25 0.0144 0.0030

Uranus 75511-01-21 19:27 G 29300906.17 29300906.31 29300906.46 0.0144 0.0056

Uranus 75511-04-20 00:43 G 29300994.41 29300994.53 29300994.66 0.0144 0.0081

Earth 75511-04-20 06:15 G 29300994.64 29300994.76 29300994.89 0.2628 0.0677 *

Moon 75511-04-20 06:29 G 29300994.65 29300994.77 29300994.90 0.2621 0.0727 *

Uranus 75511-07-17 06:00 G 29301082.65 29301082.75 29301082.86 0.0144 0.0107

Uranus 75511-10-13 11:03 G 29301170.92 29301170.96 29301171.03 0.0143 0.0133

Jupiter 75512-05-30 05:46 G 29301400.59 29301400.74 29301400.88 0.0539 0.0194

Saturn 75514-08-29 16:34 G 29302222.15 29302222.19 29302222.24 0.0275 0.0260

Venus 75514-08-31 15:22 G 29302224.02 29302224.14 29302224.26 0.3660 0.0245

Mars 75514-10-18 19:12 G 29302272.15 29302272.30 29302272.45 0.1769 0.0525

Saturn 75514-11-26 05:46 G 29302310.61 29302310.74 29302310.87 0.0275 0.0137

Saturn 75515-02-22 19:12 G 29302399.15 29302399.30 29302399.45 0.0276 0.0011

Saturn 75515-05-22 08:53 G 29302487.74 29302487.87 29302488.01 0.0276 0.0119

Saturn 75515-08-18 22:48 G 29302576.40 29302576.45 29302576.52 0.0276 0.0252

Mars 75515-11-09 21:22 G 29302659.27 29302659.39 29302659.51 0.1764 0.0490

Jupiter 75518-01-14 17:31 G 29303456.09 29303456.23 29303456.38 0.0490 0.0020

Venus 75520-03-16 10:19 G 29304247.91 29304247.93 29304247.94 0.3661 0.3626

Earth 75521-10-23 12:43 G 29304833.97 29304834.03 29304834.09 0.2703 0.2340

Moon 75521-10-23 12:43 G 29304833.98 29304834.03 29304834.09 0.2696 0.2396 *

Mars 75524-03-09 19:41 G 29305702.25 29305702.32 29305702.38 0.1776 0.1606

Jupiter 75524-03-18 04:48 G 29305710.54 29305710.70 29305710.85 0.0538 0.0053

Moon 75524-04-22 03:22 G 29305745.51 29305745.64 29305745.76 0.2624 0.0717

Earth 75524-04-22 04:05 G 29305745.54 29305745.67 29305745.79 0.2629 0.0730 *

Mars 75525-04-01 06:00 G 29306089.63 29306089.75 29306089.87 0.1758 0.0208

Earth 75528-10-15 23:03 G 29307383.37 29307383.46 29307383.54 0.2705 0.1998

Moon 75528-10-15 23:46 G 29307383.40 29307383.49 29307383.58 0.2710 0.1878 *

Saturn 75529-01-08 03:22 G 29307467.54 29307467.64 29307467.75 0.0285 0.0214

Saturn 75529-04-06 21:36 G 29307556.24 29307556.40 29307556.56 0.0284 0.0055

Saturn 75529-07-04 15:07 G 29307644.98 29307645.13 29307645.29 0.0284 0.0100

Saturn 75529-10-01 08:10 G 29307733.78 29307733.84 29307733.92 0.0283 0.0251

Jupiter 75529-11-02 20:53 G 29307766.23 29307766.37 29307766.50 0.0491 0.0173

Jupiter 75530-01-31 07:27 G 29307855.79 29307855.81 29307855.83 0.0489 0.0483

Mars 75534-08-22 15:07 G 29309520.02 29309520.13 29309520.23 0.1752 0.0874

Mars 75535-07-07 16:48 G 29309839.13 29309839.20 29309839.26 0.1755 0.1579

Jupiter 75536-01-05 04:19 G 29310020.56 29310020.68 29310020.82 0.0537 0.0287

Moon 75537-04-25 00:58 G 29310496.46 29310496.54 29310496.62 0.2628 0.2060

Earth 75537-04-25 01:55 G 29310496.51 29310496.58 29310496.66 0.2629 0.2182 *

Jupiter 75541-08-22 00:00 G 29312076.40 29312076.50 29312076.61 0.0491 0.0329

Earth 75541-10-18 21:36 G 29312134.28 29312134.40 29312134.53 0.2705 0.0408

Moon 75541-10-18 22:48 G 29312134.32 29312134.45 29312134.58 0.2703 0.0357 *

Jupiter 75541-11-19 10:19 G 29312165.83 29312165.93 29312166.05 0.0489 0.0323

Mars 75544-01-13 00:15 G 29312950.45 29312950.51 29312950.56 0.1745 0.1527

Saturn 75544-04-14 07:55 G 29313042.72 29313042.83 29313042.95 0.0275 0.0169

Earth 75544-04-17 14:10 G 29313046.00 29313046.09 29313046.18 0.2628 0.1772

Moon 75544-04-17 14:39 G 29313046.02 29313046.11 29313046.21 0.2622 0.1772 *

Saturn 75544-07-11 21:22 G 29313131.24 29313131.39 29313131.53 0.0275 0.0044

Saturn 75544-10-08 10:48 G 29313219.81 29313219.95 29313220.10 0.0276 0.0085

Mars 75544-11-26 18:29 G 29313269.13 29313269.27 29313269.42 0.1762 0.0613

Saturn 75545-01-05 00:43 G 29313308.44 29313308.53 29313308.63 0.0276 0.0216

Mars 75545-12-18 12:58 G 29313655.96 29313656.04 29313656.12 0.1771 0.1299

Jupiter 75547-10-24 04:05 G 29314330.64 29314330.67 29314330.71 0.0537 0.0519

Jupiter 75548-01-22 02:53 G 29314420.52 29314420.62 29314420.72 0.0539 0.0408

Uranus 75552-02-24 02:39 G 29315914.55 29315914.61 29315914.70 0.0134 0.0119

Uranus 75552-05-22 07:41 G 29316002.71 29316002.82 29316002.94 0.0134 0.0097

Uranus 75552-08-18 12:43 G 29316090.90 29316091.03 29316091.16 0.0134 0.0075

Uranus 75552-11-14 17:31 G 29316179.08 29316179.23 29316179.38 0.0134 0.0053

Venus 75553-02-09 20:39 G 29316266.24 29316266.36 29316266.49 0.3712 0.0447

Uranus 75553-02-10 22:19 G 29316267.27 29316267.43 29316267.59 0.0134 0.0032

Uranus 75553-05-10 03:07 G 29316355.47 29316355.63 29316355.79 0.0135 0.0011

Jupiter 75553-06-10 03:36 G 29316386.63 29316386.65 29316386.68 0.0492 0.0481

Uranus 75553-08-06 07:55 G 29316443.67 29316443.83 29316443.99 0.0135 0.0011

Jupiter 75553-09-07 13:41 G 29316475.93 29316476.07 29316476.21 0.0489 0.0164

Uranus 75553-11-02 12:29 G 29316531.87 29316532.02 29316532.18 0.0135 0.0032

Uranus 75554-01-29 17:03 G 29316620.07 29316620.21 29316620.36 0.0135 0.0053

Mars 75554-04-18 19:27 G 29316699.16 29316699.31 29316699.46 0.1769 0.0415

Uranus 75554-04-27 21:36 G 29316708.28 29316708.40 29316708.54 0.0135 0.0074

Uranus 75554-07-25 02:24 G 29316796.49 29316796.60 29316796.71 0.0135 0.0094

Uranus 75554-10-21 06:43 G 29316884.71 29316884.78 29316884.87 0.0135 0.0115

Earth 75554-10-21 19:55 G 29316885.22 29316885.33 29316885.45 0.2704 0.1137

Moon 75554-10-21 20:39 G 29316885.25 29316885.36 29316885.47 0.2699 0.1280 *

Uranus 75555-01-17 11:31 G 29316972.98 29316972.98 29316972.98 0.0135 0.0135

Mars 75555-05-10 21:22 G 29317086.27 29317086.39 29317086.51 0.1765 0.0575

Neptune 75557-03-16 19:41 G 29317762.29 29317762.32 29317762.39 0.0090 0.0085

Moon 75557-04-20 11:46 G 29317796.86 29317796.99 29317797.12 0.2622 0.0341

Earth 75557-04-20 11:46 G 29317796.86 29317796.99 29317797.11 0.2628 0.0408 *

Neptune 75557-06-12 22:34 G 29317850.35 29317850.44 29317850.52 0.0090 0.0075

Neptune 75557-09-09 00:43 G 29317938.43 29317938.53 29317938.65 0.0090 0.0066

Neptune 75557-12-06 03:07 G 29318026.51 29318026.63 29318026.76 0.0090 0.0057

Neptune 75558-03-04 05:17 G 29318114.60 29318114.72 29318114.87 0.0090 0.0048

Saturn 75558-05-28 01:55 G 29318199.54 29318199.58 29318199.62 0.0284 0.0274

Neptune 75558-05-31 07:41 G 29318202.69 29318202.82 29318202.98 0.0090 0.0039

Saturn 75558-08-24 20:10 G 29318288.19 29318288.34 29318288.49 0.0284 0.0114

Neptune 75558-08-27 10:05 G 29318290.78 29318290.92 29318291.08 0.0090 0.0029

Saturn 75558-11-21 14:10 G 29318376.93 29318377.09 29318377.25 0.0283 0.0042

Neptune 75558-11-23 12:29 G 29318378.87 29318379.02 29318379.18 0.0090 0.0020

Saturn 75559-02-18 07:27 G 29318465.69 29318465.81 29318465.93 0.0283 0.0193

Neptune 75559-02-19 14:53 G 29318466.96 29318467.12 29318467.28 0.0090 0.0011

Neptune 75559-05-18 17:03 G 29318555.06 29318555.21 29318555.38 0.0090 0.0003

Neptune 75559-08-14 19:27 G 29318643.15 29318643.31 29318643.47 0.0090 0.0007

Jupiter 75559-11-10 03:51 G 29318730.51 29318730.66 29318730.80 0.0539 0.0196

Neptune 75559-11-10 21:36 G 29318731.25 29318731.40 29318731.56 0.0090 0.0016

Neptune 75560-02-07 00:00 G 29318819.35 29318819.50 29318819.65 0.0090 0.0025

Neptune 75560-05-05 02:10 G 29318907.45 29318907.59 29318907.74 0.0090 0.0034

Neptune 75560-08-01 04:19 G 29318995.55 29318995.68 29318995.82 0.0090 0.0043

Neptune 75560-10-28 06:29 G 29319083.65 29319083.77 29319083.91 0.0090 0.0052

Neptune 75561-01-24 08:39 G 29319171.75 29319171.86 29319171.99 0.0090 0.0060

Neptune 75561-04-22 11:03 G 29319259.86 29319259.96 29319260.06 0.0090 0.0069

Neptune 75561-07-19 12:58 G 29319347.98 29319348.04 29319348.13 0.0090 0.0078

Neptune 75561-10-15 15:07 G 29319436.10 29319436.13 29319436.18 0.0090 0.0087

Mars 75563-09-08 20:10 G 29320129.26 29320129.34 29320129.42 0.1776 0.1484

Mars 75564-09-30 06:00 G 29320516.63 29320516.75 29320516.87 0.1758 0.0129

Jupiter 75565-06-26 16:34 G 29320786.04 29320786.19 29320786.33 0.0490 0.0014

Venus 75565-09-21 18:58 G 29320873.19 29320873.29 29320873.39 0.3659 0.1799

Moon 75567-10-24 18:00 G 29321636.22 29321636.25 29321636.29 0.2696 0.2539

Earth 75567-10-24 18:00 G 29321636.23 29321636.25 29321636.28 0.2703 0.2625 *

Moon 75570-04-23 08:39 G 29322547.74 29322547.86 29322547.98 0.2624 0.0848

Earth 75570-04-23 09:22 G 29322547.77 29322547.89 29322548.01 0.2629 0.1013 *

Venus 75571-04-07 13:41 G 29322896.96 29322897.07 29322897.17 0.3660 0.1487

Jupiter 75571-08-29 04:19 G 29323040.52 29323040.68 29323040.83 0.0538 0.0025

Saturn 75573-09-01 08:10 G 29323774.75 29323774.84 29323774.93 0.0275 0.0219

Saturn 75573-11-28 21:22 G 29323863.25 29323863.39 29323863.53 0.0275 0.0095

Mars 75574-02-20 14:53 G 29323947.02 29323947.12 29323947.23 0.1751 0.0800

Saturn 75574-02-25 10:48 G 29323951.80 29323951.95 29323952.10 0.0276 0.0032

Saturn 75574-05-25 00:29 G 29324040.41 29324040.52 29324040.65 0.0276 0.0163

Earth 75574-10-17 04:34 G 29324185.59 29324185.69 29324185.79 0.2705 0.1693

Moon 75574-10-17 05:31 G 29324185.62 29324185.73 29324185.83 0.2708 0.1596 *

Mars 75575-01-05 17:17 G 29324266.19 29324266.22 29324266.26 0.1755 0.1700

Jupiter 75577-04-14 19:41 G 29325096.18 29325096.32 29325096.46 0.0490 0.0159

Moon 75583-04-26 06:29 G 29327298.72 29327298.77 29327298.82 0.2630 0.2405

Earth 75583-04-26 07:27 G 29327298.77 29327298.81 29327298.85 0.2629 0.2468 *

Jupiter 75583-06-17 03:22 G 29327350.51 29327350.64 29327350.78 0.0537 0.0267

Mars 75583-07-14 00:15 G 29327377.44 29327377.51 29327377.57 0.1745 0.1445

Mars 75584-05-27 18:58 G 29327696.15 29327696.29 29327696.43 0.1762 0.0733

Mars 75585-06-18 12:58 G 29328082.96 29328083.04 29328083.11 0.1771 0.1376

Pluto 75585-11-14 10:19 G 29328231.86 29328231.93 29328232.03 0.0064 0.0054

Pluto 75586-02-10 11:17 G 29328319.86 29328319.97 29328320.10 0.0064 0.0043

Pluto 75586-05-09 12:15 G 29328407.88 29328408.01 29328408.15 0.0064 0.0032

Pluto 75586-08-05 13:12 G 29328495.90 29328496.05 29328496.20 0.0064 0.0021

Pluto 75586-11-01 13:55 G 29328583.93 29328584.08 29328584.24 0.0064 0.0011

Pluto 75587-01-28 14:53 G 29328671.96 29328672.12 29328672.28 0.0064 0.0000

Pluto 75587-04-26 15:36 G 29328760.00 29328760.15 29328760.31 0.0064 0.0011

Pluto 75587-07-23 16:19 G 29328848.04 29328848.18 29328848.34 0.0064 0.0022

Pluto 75587-10-19 17:17 G 29328936.09 29328936.22 29328936.36 0.0064 0.0033

Earth 75587-10-20 03:07 G 29328936.50 29328936.63 29328936.76 0.2704 0.0112

Moon 75587-10-20 04:19 G 29328936.55 29328936.68 29328936.80 0.2703 0.0102 *

Saturn 75588-01-11 20:53 G 29329020.24 29329020.37 29329020.51 0.0285 0.0156

Pluto 75588-01-15 18:00 G 29329024.14 29329024.25 29329024.37 0.0064 0.0044

Saturn 75588-04-09 15:07 G 29329108.96 29329109.13 29329109.29 0.0284 0.0007

Pluto 75588-04-12 18:43 G 29329112.21 29329112.28 29329112.37 0.0065 0.0055

Saturn 75588-07-07 08:39 G 29329197.72 29329197.86 29329197.99 0.0284 0.0156

Jupiter 75589-01-31 22:48 G 29329406.34 29329406.45 29329406.56 0.0491 0.0318

Jupiter 75589-05-01 09:07 G 29329495.78 29329495.88 29329495.99 0.0489 0.0335

Earth 75590-04-18 19:27 G 29329848.21 29329848.31 29329848.42 0.2628 0.1512

Moon 75590-04-18 20:10 G 29329848.23 29329848.34 29329848.44 0.2622 0.1405 *

Uranus 75593-03-07 10:48 G 29330901.90 29330901.95 29330902.01 0.0144 0.0133

Uranus 75593-06-03 15:36 G 29330990.06 29330990.15 29330990.26 0.0144 0.0109

Uranus 75593-08-30 20:39 G 29331078.25 29331078.36 29331078.49 0.0144 0.0085

Mars 75593-10-17 20:10 G 29331126.19 29331126.34 29331126.49 0.1769 0.0290

Uranus 75593-11-27 01:41 G 29331166.44 29331166.57 29331166.71 0.0144 0.0060

Uranus 75594-02-23 06:43 G 29331254.64 29331254.78 29331254.93 0.0144 0.0036

Uranus 75594-05-22 11:46 G 29331342.84 29331342.99 29331343.15 0.0144 0.0011

Uranus 75594-08-18 17:03 G 29331431.05 29331431.21 29331431.36 0.0144 0.0015

Mars 75594-11-08 21:22 G 29331513.28 29331513.39 29331513.51 0.1765 0.0658

Uranus 75594-11-14 22:05 G 29331519.27 29331519.42 29331519.57 0.0144 0.0040

Uranus 75595-02-11 03:07 G 29331607.50 29331607.63 29331607.78 0.0144 0.0065

Jupiter 75595-04-05 02:53 G 29331660.57 29331660.62 29331660.67 0.0536 0.0503

Uranus 75595-05-10 08:24 G 29331695.73 29331695.85 29331695.98 0.0144 0.0090

Jupiter 75595-07-04 01:41 G 29331750.47 29331750.57 29331750.66 0.0539 0.0421

Uranus 75595-08-06 13:41 G 29331783.98 29331784.07 29331784.17 0.0144 0.0116

Uranus 75595-11-02 18:58 G 29331872.27 29331872.29 29331872.32 0.0143 0.0142

Earth 75600-10-22 01:27 G 29333687.45 29333687.56 29333687.67 0.2704 0.1425

Moon 75600-10-22 01:55 G 29333687.47 29333687.58 29333687.69 0.2698 0.1400 *

Jupiter 75600-11-20 02:24 G 29333716.56 29333716.60 29333716.63 0.0492 0.0471

Jupiter 75601-02-17 12:15 G 29333805.88 29333806.01 29333806.15 0.0490 0.0175

Saturn 75603-01-19 10:19 G 29334506.88 29334506.93 29334507.00 0.0274 0.0249

Mars 75603-03-09 20:53 G 29334556.27 29334556.37 29334556.47 0.1776 0.1351

Saturn 75603-04-17 23:31 G 29334595.36 29334595.48 29334595.61 0.0275 0.0127

Moon 75603-04-21 16:48 G 29334599.07 29334599.20 29334599.33 0.2622 0.0229

Earth 75603-04-21 17:03 G 29334599.08 29334599.21 29334599.34 0.2628 0.0138 *

Saturn 75603-07-15 12:58 G 29334683.89 29334684.04 29334684.19 0.0275 0.0003

Saturn 75603-10-12 02:39 G 29334772.48 29334772.61 29334772.74 0.0276 0.0129

Saturn 75604-01-08 16:34 G 29334861.15 29334861.19 29334861.24 0.0276 0.0261

Venus 75604-03-02 21:36 G 29334915.35 29334915.40 29334915.45 0.3713 0.3371

Mars 75604-03-31 06:00 G 29334943.63 29334943.75 29334943.88 0.1758 0.0072

Jupiter 75607-04-22 01:41 G 29336060.43 29336060.57 29336060.72 0.0539 0.0197

Venus 75609-09-16 19:55 G 29336939.21 29336939.33 29336939.45 0.3711 0.1172

Jupiter 75612-12-06 15:36 G 29338116.00 29338116.15 29338116.30 0.0490 0.0018

Mars 75613-08-21 15:07 G 29338374.02 29338374.13 29338374.24 0.1752 0.0717

Moon 75616-04-23 13:55 G 29339349.97 29339350.08 29339350.20 0.2624 0.1275

Earth 75616-04-23 14:53 G 29339350.00 29339350.12 29339350.23 0.2629 0.1284 *

Saturn 75617-05-30 19:41 G 29339752.22 29339752.32 29339752.43 0.0284 0.0214

Saturn 75617-08-27 13:55 G 29339840.92 29339841.08 29339841.24 0.0284 0.0055

Saturn 75617-11-24 07:27 G 29339929.67 29339929.81 29339929.97 0.0283 0.0100

Saturn 75618-02-21 00:43 G 29340018.46 29340018.53 29340018.61 0.0283 0.0250

Jupiter 75619-02-08 02:24 G 29340370.45 29340370.60 29340370.76 0.0538 0.0021

Earth 75620-10-17 10:05 G 29340987.81 29340987.92 29340988.03 0.2705 0.1395

Moon 75620-10-17 11:03 G 29340987.85 29340987.96 29340988.07 0.2706 0.1312 *

Venus 75622-04-28 17:03 G 29341546.10 29341546.21 29341546.33 0.3659 0.0616

Mars 75623-01-12 00:00 G 29341804.43 29341804.50 29341804.58 0.1745 0.1368

Earth 75623-04-17 03:36 G 29341899.63 29341899.65 29341899.67 0.2627 0.2586

Moon 75623-04-17 04:19 G 29341899.65 29341899.68 29341899.72 0.2624 0.2517 *

Mars 75623-11-26 19:27 G 29342123.18 29342123.31 29342123.45 0.1762 0.0841

Jupiter 75624-09-24 18:29 G 29342426.14 29342426.27 29342426.42 0.0490 0.0145

Mars 75624-12-17 12:58 G 29342509.97 29342510.04 29342510.11 0.1771 0.1460

Venus 75627-11-12 12:00 G 29343569.92 29343570.00 29343570.07 0.3661 0.2733

Moon 75629-04-26 12:00 G 29344100.98 29344101.00 29344101.02 0.2631 0.2582

Jupiter 75630-11-27 02:53 G 29344680.48 29344680.62 29344680.76 0.0538 0.0240

Saturn 75632-09-03 23:31 G 29345327.37 29345327.48 29345327.59 0.0275 0.0178

Saturn 75632-12-01 12:43 G 29345415.89 29345416.03 29345416.18 0.0275 0.0054

Saturn 75633-02-28 02:24 G 29345504.46 29345504.60 29345504.74 0.0276 0.0075

Mars 75633-04-17 20:53 G 29345553.21 29345553.37 29345553.52 0.1769 0.0158

Saturn 75633-05-27 16:05 G 29345593.08 29345593.17 29345593.28 0.0276 0.0206

Earth 75633-10-20 08:39 G 29345738.73 29345738.86 29345738.99 0.2704 0.0190

Moon 75633-10-20 09:36 G 29345738.77 29345738.90 29345739.03 0.2702 0.0257 *

Mars 75634-05-09 21:22 G 29345940.28 29345940.39 29345940.50 0.1764 0.0738

Uranus 75635-12-18 05:31 G 29346527.71 29346527.73 29346527.78 0.0134 0.0131

Uranus 75636-03-15 10:34 G 29346615.86 29346615.94 29346616.05 0.0134 0.0109

Earth 75636-04-19 00:43 G 29346650.42 29346650.53 29346650.65 0.2628 0.1254

Moon 75636-04-19 01:12 G 29346650.44 29346650.55 29346650.67 0.2622 0.1235 *

Uranus 75636-06-11 15:36 G 29346704.03 29346704.15 29346704.28 0.0134 0.0087

Jupiter 75636-07-13 21:51 G 29346736.30 29346736.41 29346736.53 0.0491 0.0301

Uranus 75636-09-07 20:24 G 29346792.22 29346792.35 29346792.50 0.0134 0.0065

Jupiter 75636-10-11 08:10 G 29346825.74 29346825.84 29346825.94 0.0489 0.0350

Uranus 75636-12-05 01:27 G 29346880.41 29346880.56 29346880.71 0.0134 0.0044

Uranus 75637-03-03 06:15 G 29346968.60 29346968.76 29346968.92 0.0135 0.0022

Uranus 75637-05-30 11:03 G 29347056.80 29347056.96 29347057.12 0.0135 0.0002

Uranus 75637-08-26 15:36 G 29347145.00 29347145.15 29347145.31 0.0135 0.0021

Uranus 75637-11-22 20:24 G 29347233.20 29347233.35 29347233.50 0.0135 0.0041

Uranus 75638-02-19 01:12 G 29347321.41 29347321.55 29347321.69 0.0135 0.0062

Uranus 75638-05-18 05:31 G 29347409.61 29347409.73 29347409.86 0.0135 0.0083

Uranus 75638-08-14 10:05 G 29347497.83 29347497.92 29347498.03 0.0135 0.0104

Uranus 75638-11-10 14:39 G 29347586.06 29347586.11 29347586.18 0.0135 0.0124

Neptune 75639-08-31 19:55 G 29347880.32 29347880.33 29347880.37 0.0088 0.0087

Neptune 75639-11-27 21:51 G 29347968.36 29347968.41 29347968.49 0.0088 0.0079

Neptune 75640-02-24 00:00 G 29348056.42 29348056.50 29348056.59 0.0088 0.0071

Neptune 75640-05-22 01:55 G 29348144.48 29348144.58 29348144.69 0.0088 0.0063

Neptune 75640-08-18 03:51 G 29348232.55 29348232.66 29348232.78 0.0088 0.0055

Neptune 75640-11-14 05:46 G 29348320.62 29348320.74 29348320.87 0.0088 0.0047

Neptune 75641-02-10 07:41 G 29348408.69 29348408.82 29348408.96 0.0088 0.0039

Neptune 75641-05-09 09:51 G 29348496.76 29348496.91 29348497.05 0.0088 0.0031

Neptune 75641-08-05 11:46 G 29348584.84 29348584.99 29348585.14 0.0088 0.0023

Neptune 75641-11-01 13:41 G 29348672.92 29348673.07 29348673.22 0.0088 0.0015

Neptune 75642-01-28 15:36 G 29348761.00 29348761.15 29348761.31 0.0088 0.0007

Neptune 75642-04-26 17:46 G 29348849.08 29348849.24 29348849.39 0.0088 0.0003

Neptune 75642-07-23 19:41 G 29348937.16 29348937.32 29348937.47 0.0088 0.0010

Mars 75642-09-07 21:22 G 29348983.28 29348983.39 29348983.50 0.1776 0.1230

Jupiter 75642-09-15 01:55 G 29348990.52 29348990.58 29348990.65 0.0536 0.0482

Neptune 75642-10-19 21:36 G 29349025.25 29349025.40 29349025.55 0.0088 0.0018

Jupiter 75642-12-14 00:43 G 29349080.44 29349080.53 29349080.61 0.0539 0.0441

Neptune 75643-01-15 23:31 G 29349113.34 29349113.48 29349113.63 0.0088 0.0026

Neptune 75643-04-14 01:27 G 29349201.43 29349201.56 29349201.71 0.0088 0.0035

Neptune 75643-07-11 03:22 G 29349289.52 29349289.64 29349289.79 0.0088 0.0043

Mars 75643-09-30 06:00 G 29349370.63 29349370.75 29349370.87 0.1758 0.0037

Neptune 75643-10-07 05:31 G 29349377.61 29349377.73 29349377.87 0.0088 0.0051

Neptune 75644-01-03 07:41 G 29349465.71 29349465.82 29349465.94 0.0088 0.0059

Neptune 75644-03-31 09:36 G 29349553.81 29349553.90 29349554.01 0.0088 0.0068

Neptune 75644-06-27 11:46 G 29349641.92 29349641.99 29349642.07 0.0088 0.0076

Neptune 75644-09-23 13:41 G 29349730.04 29349730.07 29349730.12 0.0088 0.0085

Saturn 75646-10-17 19:41 G 29350484.26 29350484.32 29350484.39 0.0285 0.0262

Earth 75646-10-23 06:58 G 29350489.69 29350489.79 29350489.89 0.2704 0.1713

Moon 75646-10-23 07:12 G 29350489.71 29350489.80 29350489.90 0.2697 0.1809 *

Saturn 75647-01-14 14:10 G 29350572.94 29350573.09 29350573.24 0.0285 0.0101

Saturn 75647-04-13 08:10 G 29350661.68 29350661.84 29350662.00 0.0284 0.0057

Saturn 75647-07-11 01:27 G 29350750.46 29350750.56 29350750.67 0.0284 0.0209

Jupiter 75648-05-02 00:58 G 29351046.50 29351046.54 29351046.59 0.0492 0.0460

Jupiter 75648-07-30 11:03 G 29351135.83 29351135.96 29351136.10 0.0490 0.0187

Moon 75649-04-21 21:51 G 29351401.28 29351401.41 29351401.54 0.2622 0.0152

Earth 75649-04-21 22:19 G 29351401.30 29351401.43 29351401.56 0.2628 0.0141 *

Mars 75653-02-19 15:07 G 29352801.01 29352801.13 29352801.24 0.1752 0.0632

Jupiter 75654-10-02 00:43 G 29353390.39 29353390.53 29353390.67 0.0538 0.0214

Jupiter 75660-05-18 14:10 G 29355445.95 29355446.09 29355446.24 0.0490 0.0033

Venus 75660-10-07 20:53 G 29355588.25 29355588.37 29355588.48 0.3712 0.1714

Saturn 75662-01-22 01:55 G 29356059.49 29356059.58 29356059.68 0.0274 0.0208

Saturn 75662-04-20 15:07 G 29356148.00 29356148.13 29356148.27 0.0275 0.0084

Moon 75662-04-24 19:27 G 29356152.20 29356152.31 29356152.42 0.2626 0.1395

Earth 75662-04-24 20:10 G 29356152.24 29356152.34 29356152.45 0.2629 0.1566 *

Mars 75662-07-13 00:00 G 29356231.42 29356231.50 29356231.58 0.1745 0.1286

Saturn 75662-07-18 04:34 G 29356236.55 29356236.69 29356236.84 0.0275 0.0044

Saturn 75662-10-14 18:29 G 29356325.15 29356325.27 29356325.38 0.0275 0.0173

Mars 75663-05-27 20:10 G 29356550.21 29356550.34 29356550.46 0.1762 0.0963

Mars 75664-06-17 12:58 G 29356936.99 29356937.04 29356937.10 0.1771 0.1550

Venus 75666-04-23 18:58 G 29357612.21 29357612.29 29357612.38 0.3711 0.2761

Jupiter 75666-07-21 00:29 G 29357700.37 29357700.52 29357700.68 0.0538 0.0021

Earth 75666-10-18 15:22 G 29357790.03 29357790.14 29357790.26 0.2705 0.1096

Moon 75666-10-18 16:34 G 29357790.07 29357790.19 29357790.31 0.2706 0.0923 *

Earth 75669-04-17 08:53 G 29358701.81 29358701.87 29358701.92 0.2627 0.2330

Moon 75669-04-17 09:36 G 29358701.83 29358701.90 29358701.97 0.2623 0.2199 *

Jupiter 75672-03-06 17:31 G 29359756.09 29359756.23 29359756.38 0.0491 0.0128

Mars 75672-10-16 21:07 G 29359980.23 29359980.38 29359980.54 0.1769 0.0058

Venus 75673-05-19 20:53 G 29360195.29 29360195.37 29360195.45 0.3658 0.2607

Mars 75673-11-07 21:22 G 29360367.28 29360367.39 29360367.50 0.1764 0.0819

Pluto 75675-04-25 14:10 G 29360901.02 29360901.09 29360901.18 0.0081 0.0069

Pluto 75675-07-22 15:51 G 29360989.04 29360989.16 29360989.29 0.0081 0.0048

Pluto 75675-10-18 17:31 G 29361077.09 29361077.23 29361077.38 0.0080 0.0027

Pluto 75676-01-14 19:12 G 29361165.15 29361165.30 29361165.46 0.0080 0.0006

Pluto 75676-04-11 20:53 G 29361253.22 29361253.37 29361253.53 0.0080 0.0015

Saturn 75676-06-02 12:58 G 29361304.91 29361305.04 29361305.19 0.0284 0.0158

Pluto 75676-07-08 22:19 G 29361341.30 29361341.43 29361341.58 0.0080 0.0036

Saturn 75676-08-30 07:12 G 29361393.64 29361393.80 29361393.96 0.0284 0.0003

Pluto 75676-10-05 00:00 G 29361429.40 29361429.50 29361429.62 0.0080 0.0057

Saturn 75676-11-27 00:43 G 29361482.40 29361482.53 29361482.67 0.0283 0.0155

Pluto 75677-01-01 01:27 G 29361517.54 29361517.56 29361517.61 0.0080 0.0078

Uranus 75677-03-27 18:58 G 29361603.22 29361603.29 29361603.37 0.0144 0.0122

Uranus 75677-06-23 23:46 G 29361691.39 29361691.49 29361691.61 0.0144 0.0098

Uranus 75677-09-20 04:48 G 29361779.58 29361779.70 29361779.84 0.0144 0.0074

Uranus 75677-12-17 09:51 G 29361867.77 29361867.91 29361868.06 0.0144 0.0049

Uranus 75678-03-15 14:53 G 29361955.97 29361956.12 29361956.27 0.0144 0.0024

Jupiter 75678-05-09 00:58 G 29362010.40 29362010.54 29362010.68 0.0537 0.0236

Uranus 75678-06-11 19:55 G 29362044.18 29362044.33 29362044.49 0.0144 0.0003

Uranus 75678-09-08 00:58 G 29362132.39 29362132.54 29362132.70 0.0144 0.0026

Venus 75678-12-03 15:22 G 29362219.03 29362219.14 29362219.26 0.3660 0.0620

Uranus 75678-12-05 06:15 G 29362220.62 29362220.76 29362220.91 0.0144 0.0051

Uranus 75679-03-03 11:31 G 29362308.84 29362308.98 29362309.11 0.0144 0.0076

Uranus 75679-05-30 16:34 G 29362397.08 29362397.19 29362397.30 0.0144 0.0102

Uranus 75679-08-26 21:36 G 29362485.34 29362485.40 29362485.48 0.0144 0.0128

Earth 75679-10-21 13:55 G 29362540.96 29362541.08 29362541.21 0.2704 0.0490

Moon 75679-10-21 14:53 G 29362541.00 29362541.12 29362541.25 0.2701 0.0576 *

Mars 75682-03-08 22:05 G 29363410.29 29363410.42 29363410.54 0.1776 0.1102

Earth 75682-04-20 06:15 G 29363452.64 29363452.76 29363452.87 0.2628 0.0989

Moon 75682-04-20 06:29 G 29363452.65 29363452.77 29363452.89 0.2622 0.0950 *

Mars 75683-03-31 06:15 G 29363797.63 29363797.76 29363797.88 0.1758 0.0138

Jupiter 75683-12-24 20:39 G 29364066.25 29364066.36 29364066.48 0.0491 0.0287

Jupiter 75684-03-23 06:58 G 29364155.70 29364155.79 29364155.89 0.0489 0.0365

Jupiter 75690-02-25 01:12 G 29366320.47 29366320.55 29366320.63 0.0537 0.0458

Jupiter 75690-05-26 00:00 G 29366410.43 29366410.50 29366410.58 0.0539 0.0468

Saturn 75691-06-11 02:10 G 29366791.54 29366791.59 29366791.64 0.0274 0.0258

Saturn 75691-09-07 15:07 G 29366880.01 29366880.13 29366880.26 0.0275 0.0136

Saturn 75691-12-05 04:34 G 29366968.54 29366968.69 29366968.83 0.0275 0.0013

Saturn 75692-03-02 18:00 G 29367057.12 29367057.25 29367057.39 0.0275 0.0118

Saturn 75692-05-30 07:55 G 29367145.77 29367145.83 29367145.89 0.0276 0.0249

Mars 75692-08-20 14:53 G 29367228.01 29367228.12 29367228.24 0.1751 0.0559

Earth 75692-10-23 12:15 G 29367291.93 29367292.01 29367292.10 0.2704 0.1998

Moon 75692-10-23 12:43 G 29367291.94 29367292.03 29367292.11 0.2697 0.1978 *

Moon 75695-04-23 03:07 G 29368203.50 29368203.63 29368203.76 0.2622 0.0317

Earth 75695-04-23 03:36 G 29368203.53 29368203.65 29368203.78 0.2628 0.0415 *

Jupiter 75695-10-13 00:15 G 29368376.45 29368376.51 29368376.57 0.0492 0.0442

Jupiter 75696-01-10 10:05 G 29368465.79 29368465.92 29368466.06 0.0490 0.0205

Earth 75699-10-16 22:05 G 29369841.37 29369841.42 29369841.48 0.2705 0.2410

Moon 75699-10-16 22:48 G 29369841.38 29369841.45 29369841.52 0.2710 0.2250 *

Mars 75702-01-12 00:00 G 29370658.42 29370658.50 29370658.59 0.1745 0.1207

Jupiter 75702-03-14 23:46 G 29370720.35 29370720.49 29370720.63 0.0538 0.0236

Mars 75702-11-26 20:39 G 29370977.24 29370977.36 29370977.48 0.1762 0.1080

Mars 75703-12-18 12:58 G 29371363.99 29371364.04 29371364.08 0.1771 0.1620

Saturn 75705-10-21 12:58 G 29372036.93 29372037.04 29372037.15 0.0285 0.0207

Saturn 75706-01-18 07:12 G 29372125.64 29372125.80 29372125.96 0.0285 0.0047

Saturn 75706-04-17 00:58 G 29372214.39 29372214.54 29372214.69 0.0285 0.0109

Saturn 75706-07-14 18:15 G 29372303.20 29372303.26 29372303.33 0.0284 0.0260

Jupiter 75707-10-30 12:58 G 29372775.90 29372776.04 29372776.19 0.0491 0.0041

Moon 75708-04-26 00:43 G 29372954.43 29372954.53 29372954.62 0.2628 0.1803

Earth 75708-04-26 01:41 G 29372954.48 29372954.57 29372954.66 0.2629 0.1841 *

Mars 75712-04-17 21:51 G 29374407.26 29374407.41 29374407.57 0.1769 0.0078

Earth 75712-10-19 20:53 G 29374592.25 29374592.37 29374592.50 0.2705 0.0793

Moon 75712-10-19 22:05 G 29374592.29 29374592.42 29374592.54 0.2706 0.0736 *

Mars 75713-05-09 21:36 G 29374794.29 29374794.40 29374794.50 0.1765 0.0908

Jupiter 75713-12-31 23:31 G 29375030.33 29375030.48 29375030.64 0.0537 0.0017

Earth 75715-04-19 14:10 G 29375504.01 29375504.09 29375504.16 0.2627 0.2075

Moon 75715-04-19 14:53 G 29375504.04 29375504.12 29375504.20 0.2623 0.2045 *

Venus 75717-05-15 20:10 G 29376261.21 29376261.34 29376261.46 0.3712 0.0142

Jupiter 75719-08-18 16:19 G 29377086.04 29377086.18 29377086.32 0.0491 0.0117

Uranus 75720-01-08 13:41 G 29377229.00 29377229.07 29377229.14 0.0134 0.0120

Uranus 75720-04-05 18:43 G 29377317.17 29377317.28 29377317.39 0.0134 0.0098

Uranus 75720-07-02 23:17 G 29377405.35 29377405.47 29377405.62 0.0134 0.0078

Uranus 75720-09-29 04:19 G 29377493.54 29377493.68 29377493.83 0.0134 0.0056

Uranus 75720-12-26 09:22 G 29377581.73 29377581.89 29377582.04 0.0134 0.0034

Saturn 75721-01-25 17:46 G 29377612.13 29377612.24 29377612.36 0.0274 0.0164

Uranus 75721-03-24 14:10 G 29377669.93 29377670.09 29377670.25 0.0134 0.0013

Saturn 75721-04-24 06:58 G 29377700.65 29377700.79 29377700.94 0.0275 0.0041

Uranus 75721-06-20 18:58 G 29377758.13 29377758.29 29377758.45 0.0135 0.0009

Saturn 75721-07-21 20:39 G 29377789.22 29377789.36 29377789.50 0.0275 0.0088

Mars 75721-09-07 22:34 G 29377837.31 29377837.44 29377837.57 0.1776 0.0978

Uranus 75721-09-16 23:31 G 29377846.33 29377846.48 29377846.64 0.0135 0.0030

Saturn 75721-10-18 10:19 G 29377877.84 29377877.93 29377878.02 0.0275 0.0218

Neptune 75721-12-12 17:46 G 29377933.19 29377933.24 29377933.31 0.0090 0.0083

Uranus 75721-12-14 04:19 G 29377934.53 29377934.68 29377934.83 0.0135 0.0051

Neptune 75722-03-10 19:55 G 29378021.26 29378021.33 29378021.44 0.0090 0.0074

Uranus 75722-03-12 08:53 G 29378022.74 29378022.87 29378023.01 0.0135 0.0072

Neptune 75722-06-06 22:48 G 29378109.34 29378109.45 29378109.56 0.0090 0.0064

Uranus 75722-06-08 13:27 G 29378110.95 29378111.06 29378111.18 0.0135 0.0092

Neptune 75722-09-03 00:58 G 29378197.42 29378197.54 29378197.68 0.0090 0.0055

Uranus 75722-09-04 18:00 G 29378199.17 29378199.25 29378199.34 0.0135 0.0113

Mars 75722-09-30 06:00 G 29378224.63 29378224.75 29378224.88 0.1758 0.0212

Neptune 75722-11-30 03:22 G 29378285.51 29378285.64 29378285.79 0.0090 0.0046

Uranus 75722-12-01 22:48 G 29378287.43 29378287.45 29378287.47 0.0135 0.0133

Neptune 75723-02-26 05:46 G 29378373.60 29378373.74 29378373.89 0.0090 0.0036

Neptune 75723-05-25 07:55 G 29378461.69 29378461.83 29378462.00 0.0090 0.0028

Neptune 75723-08-21 10:19 G 29378549.78 29378549.93 29378550.10 0.0090 0.0019

Neptune 75723-11-17 12:43 G 29378637.87 29378638.03 29378638.19 0.0090 0.0009

Neptune 75724-02-13 15:07 G 29378725.97 29378726.13 29378726.29 0.0090 0.0000

Neptune 75724-05-11 17:17 G 29378814.07 29378814.22 29378814.38 0.0090 0.0009

Neptune 75724-08-07 19:41 G 29378902.16 29378902.32 29378902.48 0.0090 0.0018

Neptune 75724-11-03 21:51 G 29378990.26 29378990.41 29378990.57 0.0090 0.0027

Neptune 75725-01-31 00:00 G 29379078.36 29379078.50 29379078.65 0.0090 0.0036

Neptune 75725-04-29 02:10 G 29379166.46 29379166.59 29379166.74 0.0090 0.0045

Neptune 75725-07-26 04:19 G 29379254.57 29379254.68 29379254.82 0.0090 0.0054

Jupiter 75725-10-19 23:17 G 29379340.33 29379340.47 29379340.61 0.0537 0.0231

Neptune 75725-10-22 06:58 G 29379342.67 29379342.79 29379342.90 0.0090 0.0062

Earth 75725-10-22 19:27 G 29379343.19 29379343.31 29379343.43 0.2704 0.0772

Moon 75725-10-22 20:10 G 29379343.22 29379343.34 29379343.46 0.2699 0.0880 *

Neptune 75726-01-18 08:53 G 29379430.78 29379430.87 29379430.97 0.0090 0.0071

Neptune 75726-04-16 11:03 G 29379518.90 29379518.96 29379519.04 0.0090 0.0080

Neptune 75726-07-13 12:58 G 29379607.04 29379607.04 29379607.09 0.0090 0.0089

Moon 75728-04-21 11:31 G 29380254.85 29380254.98 29380255.10 0.2622 0.0691

Earth 75728-04-21 11:31 G 29380254.85 29380254.98 29380255.10 0.2628 0.0723 *

Venus 75729-12-25 18:58 G 29380868.18 29380868.29 29380868.40 0.3659 0.1431

Jupiter 75731-06-06 19:41 G 29381396.20 29381396.32 29381396.44 0.0491 0.0271

Jupiter 75731-09-04 06:00 G 29381485.66 29381485.75 29381485.84 0.0489 0.0381

Mars 75732-02-20 15:07 G 29381655.01 29381655.13 29381655.24 0.1751 0.0476

Saturn 75735-03-10 12:00 G 29382768.94 29382769.00 29382769.07 0.0285 0.0262

Saturn 75735-06-07 06:29 G 29382857.62 29382857.77 29382857.93 0.0285 0.0100

Venus 75735-07-11 13:41 G 29382891.97 29382892.07 29382892.17 0.3660 0.1846

Saturn 75735-09-04 00:29 G 29382946.36 29382946.52 29382946.68 0.0284 0.0057

Saturn 75735-12-01 18:00 G 29383035.14 29383035.25 29383035.36 0.0284 0.0209

Jupiter 75737-08-07 23:17 G 29383650.39 29383650.47 29383650.56 0.0537 0.0455

Jupiter 75737-11-05 22:05 G 29383740.35 29383740.42 29383740.50 0.0539 0.0472

Earth 75738-10-25 17:46 G 29384094.17 29384094.24 29384094.30 0.2704 0.2280

Moon 75738-10-25 18:00 G 29384094.18 29384094.25 29384094.31 0.2697 0.2321 *

Moon 75741-04-24 08:39 G 29385005.73 29385005.86 29385005.98 0.2623 0.0646

Earth 75741-04-24 09:07 G 29385005.75 29385005.88 29385006.00 0.2628 0.0678 *

Mars 75741-07-13 00:00 G 29385085.41 29385085.50 29385085.59 0.1745 0.1127

Mars 75742-05-27 21:07 G 29385404.27 29385404.38 29385404.49 0.1762 0.1189

Jupiter 75743-03-25 23:03 G 29385706.39 29385706.46 29385706.53 0.0492 0.0429

Mars 75743-06-18 13:12 G 29385791.02 29385791.05 29385791.07 0.1771 0.1711

Jupiter 75743-06-23 08:53 G 29385795.74 29385795.87 29385796.01 0.0490 0.0218

Earth 75745-10-18 03:36 G 29386643.57 29386643.65 29386643.73 0.2705 0.2103

Moon 75745-10-18 04:34 G 29386643.61 29386643.69 29386643.77 0.2709 0.2089 *

Jupiter 75749-08-24 22:48 G 29388050.32 29388050.45 29388050.59 0.0539 0.0259

Saturn 75750-06-14 17:46 G 29388344.16 29388344.24 29388344.34 0.0274 0.0214

Saturn 75750-09-11 06:58 G 29388432.65 29388432.79 29388432.93 0.0275 0.0092

Saturn 75750-12-08 20:24 G 29388521.20 29388521.35 29388521.49 0.0275 0.0034

Saturn 75751-03-07 10:05 G 29388609.80 29388609.92 29388610.04 0.0275 0.0163

Mars 75751-10-17 22:34 G 29388834.28 29388834.44 29388834.59 0.1769 0.0205

Mars 75752-11-07 21:22 G 29389221.29 29389221.39 29389221.49 0.1764 0.0980

Moon 75754-04-27 06:00 G 29389756.67 29389756.75 29389756.84 0.2629 0.1962

Earth 75754-04-27 06:58 G 29389756.72 29389756.79 29389756.87 0.2629 0.2128 *

Jupiter 75755-04-11 12:15 G 29390105.86 29390106.01 29390106.15 0.0490 0.0060

Earth 75758-10-21 02:24 G 29391394.48 29391394.60 29391394.73 0.2705 0.0494

Moon 75758-10-21 03:22 G 29391394.52 29391394.64 29391394.77 0.2705 0.0320 *

Uranus 75761-01-19 21:22 G 29392216.36 29392216.39 29392216.44 0.0144 0.0139

Mars 75761-03-08 23:03 G 29392264.33 29392264.46 29392264.60 0.1776 0.0854

Uranus 75761-04-18 02:24 G 29392304.52 29392304.60 29392304.70 0.0144 0.0114

Earth 75761-04-19 19:27 G 29392306.22 29392306.31 29392306.40 0.2627 0.1812

Moon 75761-04-19 20:10 G 29392306.24 29392306.34 29392306.44 0.2623 0.1671 *

Jupiter 75761-06-12 22:48 G 29392360.29 29392360.45 29392360.60 0.0537 0.0028

Uranus 75761-07-15 07:12 G 29392392.69 29392392.80 29392392.93 0.0144 0.0090

Uranus 75761-10-11 12:15 G 29392480.88 29392481.01 29392481.15 0.0144 0.0066

Uranus 75762-01-07 17:17 G 29392569.08 29392569.22 29392569.37 0.0144 0.0041

Mars 75762-03-31 06:00 G 29392651.63 29392651.75 29392651.87 0.1758 0.0286

Uranus 75762-04-05 22:19 G 29392657.28 29392657.43 29392657.59 0.0144 0.0016

Uranus 75762-07-03 03:22 G 29392745.49 29392745.64 29392745.80 0.0144 0.0009

Uranus 75762-09-29 08:39 G 29392833.71 29392833.86 29392834.01 0.0144 0.0034

Uranus 75762-12-26 13:41 G 29392921.93 29392922.07 29392922.21 0.0144 0.0059

Uranus 75763-03-24 18:43 G 29393010.16 29393010.28 29393010.41 0.0144 0.0085

Uranus 75763-06-21 00:00 G 29393098.41 29393098.50 29393098.60 0.0144 0.0110

Uranus 75763-09-17 05:17 G 29393186.68 29393186.72 29393186.77 0.0144 0.0136

Saturn 75764-10-24 06:00 G 29393589.61 29393589.75 29393589.89 0.0285 0.0153

Saturn 75765-01-21 00:15 G 29393678.35 29393678.51 29393678.67 0.0285 0.0007

Saturn 75765-04-19 17:46 G 29393767.11 29393767.24 29393767.38 0.0285 0.0162

Jupiter 75767-01-28 14:53 G 29394415.98 29394416.12 29394416.27 0.0491 0.0107

Venus 75768-06-05 20:39 G 29394910.29 29394910.36 29394910.44 0.3713 0.3023

Mars 75771-08-21 15:07 G 29396082.01 29396082.13 29396082.25 0.1751 0.0391

Earth 75771-10-24 00:58 G 29396145.42 29396145.54 29396145.66 0.2704 0.1065

Moon 75771-10-24 01:41 G 29396145.45 29396145.57 29396145.69 0.2698 0.1086 *

Jupiter 75773-03-31 22:19 G 29396670.29 29396670.43 29396670.58 0.0536 0.0208

Venus 75773-12-20 19:12 G 29396934.19 29396934.30 29396934.42 0.3712 0.1542

Moon 75774-04-22 16:48 G 29397057.07 29397057.20 29397057.32 0.2621 0.0518

Earth 75774-04-22 16:48 G 29397057.07 29397057.20 29397057.33 0.2628 0.0454 *

Jupiter 75778-11-16 18:15 G 29398726.14 29398726.26 29398726.38 0.0492 0.0264

Jupiter 75779-02-14 04:34 G 29398815.60 29398815.69 29398815.78 0.0490 0.0390

Saturn 75779-11-01 20:53 G 29399076.30 29399076.37 29399076.44 0.0274 0.0240

Saturn 75780-01-29 09:51 G 29399164.78 29399164.91 29399165.04 0.0274 0.0118

Saturn 75780-04-26 23:03 G 29399253.32 29399253.46 29399253.61 0.0274 0.0011

Saturn 75780-07-24 12:43 G 29399341.90 29399342.03 29399342.16 0.0275 0.0135

Saturn 75780-10-21 02:24 G 29399430.58 29399430.60 29399430.65 0.0275 0.0267

Mars 75781-01-11 00:00 G 29399512.41 29399512.50 29399512.60 0.1745 0.1047

Venus 75781-01-15 22:48 G 29399517.41 29399517.45 29399517.48 0.3658 0.3422

Mars 75781-11-25 21:36 G 29399831.30 29399831.40 29399831.50 0.1762 0.1312

Moon 75784-10-25 23:03 G 29400896.42 29400896.46 29400896.50 0.2697 0.2556

Earth 75784-10-25 23:03 G 29400896.42 29400896.46 29400896.50 0.2703 0.2561 *

Jupiter 75785-01-17 21:36 G 29400980.32 29400980.40 29400980.49 0.0536 0.0449

Jupiter 75785-04-17 20:24 G 29401070.28 29401070.35 29401070.42 0.0539 0.0475

Venus 75786-08-01 17:03 G 29401541.10 29401541.21 29401541.33 0.3659 0.0260

Moon 75787-04-25 13:41 G 29401807.95 29401808.07 29401808.20 0.2624 0.0884

Earth 75787-04-25 14:24 G 29401807.98 29401808.10 29401808.22 0.2629 0.0951 *

Mars 75790-06-03 09:22 G 29402942.86 29402942.89 29402942.92 0.1739 0.1675

Jupiter 75790-09-04 21:51 G 29403036.33 29403036.41 29403036.48 0.0492 0.0417

Jupiter 75790-12-03 07:41 G 29403125.69 29403125.82 29403125.95 0.0490 0.0232

Mars 75791-04-17 22:48 G 29403261.30 29403261.45 29403261.61 0.1769 0.0314

Earth 75791-10-19 09:07 G 29403445.78 29403445.88 29403445.98 0.2705 0.1799

Moon 75791-10-19 10:05 G 29403445.82 29403445.92 29403446.02 0.2709 0.1614 *

Venus 75792-02-15 11:46 G 29403564.93 29403564.99 29403565.05 0.3660 0.3056

Mars 75792-05-08 21:22 G 29403648.30 29403648.39 29403648.49 0.1764 0.1069

Saturn 75794-03-13 05:46 G 29404321.63 29404321.74 29404321.86 0.0285 0.0203

Saturn 75794-06-10 00:15 G 29404410.34 29404410.51 29404410.67 0.0285 0.0043

Saturn 75794-09-06 18:00 G 29404499.10 29404499.25 29404499.40 0.0284 0.0113

Saturn 75794-12-04 11:03 G 29404587.92 29404587.96 29404588.03 0.0284 0.0265

Jupiter 75797-02-03 20:53 G 29405380.24 29405380.37 29405380.51 0.0538 0.0259

Moon 75800-04-28 11:17 G 29406558.92 29406558.97 29406559.03 0.2629 0.2334

Earth 75800-04-28 12:29 G 29406558.97 29406559.02 29406559.07 0.2629 0.2409 *

Mars 75800-09-07 23:46 G 29406691.35 29406691.49 29406691.63 0.1776 0.0732

Mars 75801-09-30 06:15 G 29407078.64 29407078.76 29407078.88 0.1758 0.0368

Jupiter 75802-09-22 10:48 G 29407435.80 29407435.95 29407436.10 0.0490 0.0069

Uranus 75803-11-02 16:34 G 29407842.17 29407842.19 29407842.22 0.0134 0.0132

Uranus 75804-01-29 21:36 G 29407930.31 29407930.40 29407930.49 0.0134 0.0110

Uranus 75804-04-27 02:39 G 29408018.49 29408018.61 29408018.73 0.0134 0.0089

Neptune 75804-05-29 18:29 G 29408051.25 29408051.27 29408051.33 0.0088 0.0084

Uranus 75804-07-24 07:12 G 29408106.67 29408106.80 29408106.95 0.0134 0.0068

Neptune 75804-08-25 20:39 G 29408139.29 29408139.36 29408139.44 0.0088 0.0076

Uranus 75804-10-20 12:15 G 29408194.86 29408195.01 29408195.17 0.0134 0.0046

Earth 75804-10-22 07:55 G 29408196.70 29408196.83 29408196.96 0.2705 0.0196

Moon 75804-10-22 08:53 G 29408196.74 29408196.87 29408197.00 0.2703 0.0172 *

Neptune 75804-11-21 22:34 G 29408227.35 29408227.44 29408227.54 0.0088 0.0068

Uranus 75805-01-16 17:03 G 29408283.06 29408283.21 29408283.37 0.0134 0.0025

Neptune 75805-02-18 00:29 G 29408315.41 29408315.52 29408315.64 0.0088 0.0060

Uranus 75805-04-14 22:05 G 29408371.26 29408371.42 29408371.58 0.0134 0.0004

Neptune 75805-05-17 02:24 G 29408403.48 29408403.60 29408403.73 0.0088 0.0052

Uranus 75805-07-12 02:39 G 29408459.46 29408459.61 29408459.77 0.0134 0.0019

Neptune 75805-08-13 04:34 G 29408491.55 29408491.69 29408491.82 0.0088 0.0044

Uranus 75805-10-08 07:27 G 29408547.66 29408547.81 29408547.96 0.0134 0.0039

Neptune 75805-11-09 06:29 G 29408579.63 29408579.77 29408579.91 0.0088 0.0036

Uranus 75806-01-04 12:00 G 29408635.87 29408636.00 29408636.15 0.0135 0.0061

Neptune 75806-02-05 08:24 G 29408667.70 29408667.85 29408667.99 0.0088 0.0028

Uranus 75806-04-02 16:34 G 29408724.08 29408724.19 29408724.33 0.0135 0.0082

Neptune 75806-05-04 10:19 G 29408755.78 29408755.93 29408756.08 0.0088 0.0020

Uranus 75806-06-29 21:22 G 29408812.29 29408812.39 29408812.50 0.0135 0.0102

Neptune 75806-07-31 12:15 G 29408843.86 29408844.01 29408844.16 0.0088 0.0012

Uranus 75806-09-26 01:41 G 29408900.52 29408900.57 29408900.65 0.0135 0.0123

Neptune 75806-10-27 14:10 G 29408931.94 29408932.09 29408932.25 0.0088 0.0004

Neptune 75807-01-23 16:05 G 29409020.02 29409020.17 29409020.33 0.0088 0.0005

Neptune 75807-04-21 18:00 G 29409108.10 29409108.25 29409108.41 0.0088 0.0013

Earth 75807-04-22 00:43 G 29409108.43 29409108.53 29409108.63 0.2627 0.1553

Moon 75807-04-22 01:12 G 29409108.45 29409108.55 29409108.66 0.2622 0.1566 *

Neptune 75807-07-18 20:10 G 29409196.19 29409196.34 29409196.49 0.0088 0.0021

Neptune 75807-10-14 22:05 G 29409284.28 29409284.42 29409284.57 0.0088 0.0029

Neptune 75808-01-11 00:00 G 29409372.37 29409372.50 29409372.65 0.0088 0.0037

Neptune 75808-04-08 01:55 G 29409460.46 29409460.58 29409460.73 0.0088 0.0046

Neptune 75808-07-05 04:05 G 29409548.55 29409548.67 29409548.80 0.0088 0.0054

Neptune 75808-10-01 06:15 G 29409636.65 29409636.76 29409636.87 0.0088 0.0062

Jupiter 75808-11-23 21:36 G 29409690.24 29409690.40 29409690.55 0.0538 0.0043

Neptune 75808-12-28 07:55 G 29409724.76 29409724.83 29409724.94 0.0088 0.0071

Neptune 75809-03-26 10:05 G 29409812.87 29409812.92 29409813.00 0.0088 0.0079

Saturn 75809-06-18 10:05 G 29409896.81 29409896.92 29409897.03 0.0274 0.0167

Neptune 75809-06-22 12:15 G 29409901.01 29409901.01 29409901.03 0.0088 0.0087

Saturn 75809-09-14 23:17 G 29409985.32 29409985.47 29409985.61 0.0274 0.0044

Saturn 75809-12-12 12:43 G 29410073.89 29410074.03 29410074.17 0.0275 0.0083

Saturn 75810-03-11 02:24 G 29410162.51 29410162.60 29410162.69 0.0275 0.0213

Mars 75811-02-20 14:53 G 29410509.00 29410509.12 29410509.24 0.1751 0.0319

Jupiter 75814-07-11 13:55 G 29411745.94 29411746.08 29411746.23 0.0491 0.0090

Earth 75817-10-25 06:29 G 29412947.66 29412947.77 29412947.88 0.2704 0.1355

Moon 75817-10-25 06:58 G 29412947.69 29412947.79 29412947.90 0.2699 0.1481 *

Moon 75820-04-23 22:05 G 29413859.29 29413859.42 29413859.55 0.2621 0.0156

Earth 75820-04-23 22:05 G 29413859.29 29413859.42 29413859.55 0.2628 0.0197 *

Mars 75820-07-13 00:00 G 29413939.40 29413939.50 29413939.60 0.1745 0.0966

Jupiter 75820-09-11 21:22 G 29414000.24 29414000.39 29414000.54 0.0537 0.0187

Mars 75821-05-27 22:05 G 29414258.34 29414258.42 29414258.51 0.1762 0.1425

Saturn 75823-08-01 05:03 G 29415053.64 29415053.71 29415053.77 0.0286 0.0259

Saturn 75823-10-28 23:31 G 29415142.32 29415142.48 29415142.63 0.0285 0.0096

Saturn 75824-01-25 17:31 G 29415231.07 29415231.23 29415231.39 0.0285 0.0062

Saturn 75824-04-23 11:03 G 29415319.86 29415319.96 29415320.07 0.0285 0.0216

Venus 75825-01-11 19:55 G 29415583.22 29415583.33 29415583.45 0.3713 0.1358

Jupiter 75826-04-29 16:48 G 29416056.08 29416056.20 29416056.32 0.0492 0.0256

Jupiter 75826-07-28 03:07 G 29416145.55 29416145.63 29416145.71 0.0490 0.0399

Mars 75829-12-03 09:22 G 29417369.85 29417369.89 29417369.94 0.1738 0.1596

Venus 75830-07-28 18:15 G 29417607.20 29417607.26 29417607.33 0.3712 0.3114

Mars 75830-10-17 23:31 G 29417688.33 29417688.48 29417688.63 0.1769 0.0433

Pluto 75831-07-17 00:43 G 29417960.46 29417960.53 29417960.61 0.0064 0.0055

Pluto 75831-10-13 01:12 G 29418048.46 29418048.55 29418048.68 0.0064 0.0045

Mars 75831-11-08 21:36 G 29418075.31 29418075.40 29418075.49 0.1765 0.1150

Pluto 75832-01-09 02:10 G 29418136.47 29418136.59 29418136.74 0.0064 0.0034

Pluto 75832-04-06 03:07 G 29418224.49 29418224.63 29418224.79 0.0064 0.0023

Jupiter 75832-06-30 20:53 G 29418310.27 29418310.37 29418310.46 0.0536 0.0424

Pluto 75832-07-03 04:05 G 29418312.52 29418312.67 29418312.83 0.0064 0.0012

Jupiter 75832-09-28 19:27 G 29418400.26 29418400.31 29418400.37 0.0538 0.0497

Pluto 75832-09-29 05:03 G 29418400.55 29418400.71 29418400.87 0.0064 0.0002

Pluto 75832-12-26 05:46 G 29418488.59 29418488.74 29418488.90 0.0064 0.0010

Pluto 75833-03-24 06:29 G 29418576.63 29418576.77 29418576.93 0.0064 0.0021

Moon 75833-04-26 18:58 G 29418610.18 29418610.29 29418610.41 0.2625 0.1103

Earth 75833-04-26 19:55 G 29418610.22 29418610.33 29418610.44 0.2629 0.1233 *

Pluto 75833-06-20 07:12 G 29418664.68 29418664.80 29418664.95 0.0064 0.0032

Pluto 75833-09-16 07:55 G 29418752.73 29418752.83 29418752.97 0.0064 0.0043

Pluto 75833-12-13 08:39 G 29418840.80 29418840.86 29418840.97 0.0065 0.0054

Pluto 75834-03-11 09:51 G 29418928.91 29418928.91 29418928.93 0.0065 0.0064

Venus 75837-08-23 20:53 G 29420190.28 29420190.37 29420190.46 0.3658 0.2250

Earth 75837-10-20 14:39 G 29420248.00 29420248.11 29420248.22 0.2705 0.1492

Moon 75837-10-20 15:36 G 29420248.04 29420248.15 29420248.26 0.2709 0.1457 *

Jupiter 75838-02-15 20:10 G 29420366.26 29420366.34 29420366.42 0.0492 0.0413

Jupiter 75838-05-16 06:00 G 29420455.63 29420455.75 29420455.88 0.0490 0.0238

Saturn 75838-11-05 13:12 G 29420628.95 29420629.05 29420629.16 0.0274 0.0191

Saturn 75839-02-02 02:24 G 29420717.46 29420717.60 29420717.74 0.0274 0.0069

Saturn 75839-05-01 15:36 G 29420806.01 29420806.15 29420806.30 0.0274 0.0058

Saturn 75839-07-29 05:17 G 29420894.62 29420894.72 29420894.83 0.0275 0.0186

Mars 75840-03-09 00:15 G 29421118.37 29421118.51 29421118.66 0.1776 0.0605

Earth 75840-04-19 08:53 G 29421159.87 29421159.87 29421159.88 0.2627 0.2619

Moon 75840-04-19 09:51 G 29421159.89 29421159.91 29421159.93 0.2625 0.2584

Mars 75841-03-31 06:15 G 29421505.64 29421505.76 29421505.88 0.1758 0.0450

Venus 75843-03-09 15:22 G 29422214.03 29422214.14 29422214.25 0.3659 0.0972

Jupiter 75844-07-17 18:58 G 29422710.16 29422710.29 29422710.43 0.0538 0.0263

Uranus 75845-02-10 05:03 G 29422917.65 29422917.71 29422917.78 0.0144 0.0130

Uranus 75845-05-09 10:05 G 29423005.82 29423005.92 29423006.02 0.0144 0.0105

Uranus 75845-08-05 14:53 G 29423094.00 29423094.12 29423094.25 0.0144 0.0081

Uranus 75845-11-01 19:55 G 29423182.19 29423182.33 29423182.47 0.0144 0.0057

Uranus 75846-01-29 00:58 G 29423270.39 29423270.54 29423270.69 0.0144 0.0032

Uranus 75846-04-27 06:00 G 29423358.60 29423358.75 29423358.90 0.0144 0.0007

Moon 75846-04-29 16:48 G 29423361.18 29423361.20 29423361.23 0.2629 0.2556

Uranus 75846-07-24 11:03 G 29423446.81 29423446.96 29423447.12 0.0144 0.0018

Uranus 75846-10-20 16:05 G 29423535.03 29423535.17 29423535.32 0.0144 0.0043

Uranus 75847-01-16 21:07 G 29423623.25 29423623.38 29423623.53 0.0144 0.0069

Uranus 75847-04-15 02:24 G 29423711.49 29423711.60 29423711.72 0.0144 0.0094

Uranus 75847-07-12 07:41 G 29423799.74 29423799.82 29423799.91 0.0144 0.0120

Mars 75849-07-30 00:29 G 29424548.47 29424548.52 29424548.56 0.1783 0.1700

Jupiter 75850-03-04 09:22 G 29424765.75 29424765.89 29424766.04 0.0491 0.0080

Mars 75850-08-21 15:07 G 29424936.01 29424936.13 29424936.25 0.1751 0.0239

Earth 75850-10-23 13:27 G 29424998.93 29424999.06 29424999.19 0.2705 0.0113

Moon 75850-10-23 14:24 G 29424998.97 29424999.10 29424999.23 0.2701 0.0295 *

Saturn 75853-03-16 23:46 G 29425874.35 29425874.49 29425874.63 0.0285 0.0142

Earth 75853-04-22 06:00 G 29425910.64 29425910.75 29425910.86 0.2627 0.1293

Moon 75853-04-22 06:29 G 29425910.65 29425910.77 29425910.88 0.2621 0.1186 *

Saturn 75853-06-13 18:00 G 29425963.08 29425963.25 29425963.41 0.0285 0.0019

Saturn 75853-09-10 11:31 G 29426051.86 29426051.98 29426052.11 0.0284 0.0172

Jupiter 75856-05-05 19:27 G 29427020.15 29427020.31 29427020.46 0.0538 0.0040

Mars 75860-01-12 00:00 G 29428366.40 29428366.50 29428366.61 0.1745 0.0890

Mars 75860-11-25 22:34 G 29428685.37 29428685.44 29428685.52 0.1762 0.1535

Jupiter 75861-12-21 12:29 G 29429075.88 29429076.02 29429076.17 0.0491 0.0082

Earth 75863-10-26 11:46 G 29429749.89 29429749.99 29429750.09 0.2704 0.1641

Moon 75863-10-26 12:15 G 29429749.91 29429750.01 29429750.11 0.2698 0.1621 *

Moon 75866-04-25 03:22 G 29430661.51 29430661.64 29430661.77 0.2622 0.0069

Earth 75866-04-25 03:36 G 29430661.52 29430661.65 29430661.77 0.2628 0.0112 *

Jupiter 75868-02-22 19:41 G 29431330.18 29431330.32 29431330.47 0.0537 0.0180

Saturn 75868-03-24 13:41 G 29431361.01 29431361.07 29431361.15 0.0274 0.0237

Saturn 75868-06-21 02:53 G 29431449.49 29431449.62 29431449.75 0.0274 0.0115

Saturn 75868-09-17 16:05 G 29431538.02 29431538.17 29431538.32 0.0274 0.0009

Saturn 75868-12-15 05:31 G 29431626.60 29431626.73 29431626.86 0.0275 0.0137

Saturn 75869-03-13 19:27 G 29431715.28 29431715.31 29431715.34 0.0275 0.0267

Mars 75869-06-03 09:22 G 29431796.83 29431796.89 29431796.94 0.1739 0.1520

Mars 75870-04-18 00:15 G 29432115.37 29432115.51 29432115.66 0.1769 0.0564

Mars 75871-05-09 21:36 G 29432502.31 29432502.40 29432502.48 0.1764 0.1228

Jupiter 75873-10-09 15:51 G 29433386.03 29433386.16 29433386.29 0.0491 0.0239

Jupiter 75874-01-07 02:10 G 29433475.51 29433475.59 29433475.67 0.0489 0.0414

Moon 75879-04-28 00:15 G 29435412.41 29435412.51 29435412.62 0.2626 0.1464

Earth 75879-04-28 01:12 G 29435412.45 29435412.55 29435412.66 0.2629 0.1511 *

Mars 75879-09-08 00:58 G 29435545.39 29435545.54 29435545.69 0.1776 0.0486

Jupiter 75879-12-11 19:41 G 29435640.22 29435640.32 29435640.42 0.0536 0.0408

Jupiter 75880-03-10 18:15 G 29435730.22 29435730.26 29435730.31 0.0538 0.0514

Mars 75880-09-29 06:15 G 29435932.64 29435932.76 29435932.87 0.1758 0.0527

Venus 75881-08-18 19:12 G 29436256.17 29436256.30 29436256.43 0.3713 0.0271

Saturn 75882-08-03 22:34 G 29436606.33 29436606.44 29436606.57 0.0286 0.0199

Saturn 75882-10-31 17:17 G 29436695.05 29436695.22 29436695.38 0.0285 0.0037

Saturn 75883-01-28 11:03 G 29436783.82 29436783.96 29436784.11 0.0285 0.0120

Saturn 75883-04-27 04:19 G 29436872.65 29436872.68 29436872.73 0.0285 0.0273

Earth 75883-10-21 20:10 G 29437050.22 29437050.34 29437050.46 0.2705 0.1188

Moon 75883-10-21 21:07 G 29437050.26 29437050.38 29437050.50 0.2707 0.1039 *

Jupiter 75885-07-28 18:29 G 29437696.20 29437696.27 29437696.35 0.0492 0.0407

Jupiter 75885-10-26 04:34 G 29437785.56 29437785.69 29437785.82 0.0490 0.0243

Earth 75886-04-20 14:10 G 29437962.04 29437962.09 29437962.14 0.2627 0.2370

Moon 75886-04-20 15:07 G 29437962.06 29437962.13 29437962.19 0.2624 0.2235 *

Neptune 75886-06-13 13:41 G 29438016.07 29438016.07 29438016.07 0.0090 0.0090

Neptune 75886-09-09 15:36 G 29438104.10 29438104.15 29438104.24 0.0090 0.0081

Neptune 75886-12-06 18:15 G 29438192.17 29438192.26 29438192.37 0.0090 0.0071

Neptune 75887-03-04 20:39 G 29438280.25 29438280.36 29438280.48 0.0090 0.0062

Neptune 75887-05-31 23:03 G 29438368.34 29438368.46 29438368.60 0.0090 0.0053

Neptune 75887-08-28 01:12 G 29438456.42 29438456.55 29438456.71 0.0090 0.0044

Uranus 75887-11-23 00:29 G 29438543.46 29438543.52 29438543.59 0.0134 0.0122

Neptune 75887-11-24 03:36 G 29438544.51 29438544.65 29438544.81 0.0090 0.0035

Uranus 75888-02-19 05:31 G 29438631.63 29438631.73 29438631.84 0.0134 0.0100

Neptune 75888-02-20 06:15 G 29438632.61 29438632.76 29438632.92 0.0090 0.0025

Uranus 75888-05-17 10:34 G 29438719.81 29438719.94 29438720.07 0.0134 0.0078

Neptune 75888-05-18 08:39 G 29438720.70 29438720.86 29438721.02 0.0090 0.0016

Uranus 75888-08-13 15:22 G 29438808.00 29438808.14 29438808.29 0.0134 0.0057

Neptune 75888-08-14 10:48 G 29438808.79 29438808.95 29438809.11 0.0090 0.0007

Uranus 75888-11-09 20:10 G 29438896.19 29438896.34 29438896.50 0.0134 0.0036

Neptune 75888-11-10 13:12 G 29438896.89 29438897.05 29438897.21 0.0090 0.0002

Mars 75889-01-28 01:12 G 29438975.48 29438975.55 29438975.62 0.1783 0.1562

Uranus 75889-02-06 01:12 G 29438984.39 29438984.55 29438984.71 0.0134 0.0014

Neptune 75889-02-06 15:22 G 29438984.99 29438985.14 29438985.30 0.0090 0.0012

Uranus 75889-05-05 06:00 G 29439072.59 29439072.75 29439072.91 0.0134 0.0008

Neptune 75889-05-05 17:46 G 29439073.09 29439073.24 29439073.40 0.0090 0.0020

Uranus 75889-08-01 10:34 G 29439160.79 29439160.94 29439161.10 0.0134 0.0029

Neptune 75889-08-01 20:10 G 29439161.19 29439161.34 29439161.49 0.0090 0.0029

Uranus 75889-10-28 15:22 G 29439248.99 29439249.14 29439249.29 0.0134 0.0050

Neptune 75889-10-28 22:19 G 29439249.29 29439249.43 29439249.57 0.0090 0.0038 *

Uranus 75890-01-24 19:55 G 29439337.20 29439337.33 29439337.47 0.0134 0.0071

Neptune 75890-01-25 00:29 G 29439337.39 29439337.52 29439337.66 0.0090 0.0047 *

Mars 75890-02-19 15:07 G 29439363.01 29439363.13 29439363.25 0.1751 0.0151

Uranus 75890-04-23 00:29 G 29439425.42 29439425.52 29439425.65 0.0135 0.0092

Neptune 75890-04-23 02:39 G 29439425.49 29439425.61 29439425.74 0.0090 0.0056 *

Neptune 75890-07-20 04:48 G 29439513.60 29439513.70 29439513.82 0.0090 0.0065

Uranus 75890-07-20 05:17 G 29439513.64 29439513.72 29439513.81 0.0135 0.0112 *

Neptune 75890-10-16 07:12 G 29439601.71 29439601.80 29439601.89 0.0090 0.0073

Uranus 75890-10-16 09:36 G 29439601.89 29439601.90 29439601.94 0.0135 0.0133 *

Neptune 75891-01-12 09:22 G 29439689.83 29439689.89 29439689.96 0.0090 0.0082

Jupiter 75891-12-28 18:15 G 29440040.13 29440040.26 29440040.39 0.0537 0.0284

Venus 75894-03-30 18:58 G 29440863.18 29440863.29 29440863.40 0.3658 0.1067

Earth 75896-10-23 18:58 G 29441801.16 29441801.29 29441801.41 0.2705 0.0410

Moon 75896-10-23 19:55 G 29441801.20 29441801.33 29441801.45 0.2701 0.0433 *

Saturn 75897-08-11 17:03 G 29442093.17 29442093.21 29442093.26 0.0273 0.0259

Jupiter 75897-08-14 07:41 G 29442095.67 29442095.82 29442095.96 0.0491 0.0082

Saturn 75897-11-08 06:00 G 29442181.63 29442181.75 29442181.88 0.0274 0.0139

Saturn 75898-02-04 19:12 G 29442270.15 29442270.30 29442270.45 0.0274 0.0015

Saturn 75898-05-04 08:39 G 29442358.73 29442358.86 29442359.00 0.0274 0.0112

Saturn 75898-07-31 22:19 G 29442447.37 29442447.43 29442447.51 0.0275 0.0242

Earth 75899-04-23 11:17 G 29442712.86 29442712.97 29442713.09 0.2628 0.1030

Moon 75899-04-23 11:31 G 29442712.87 29442712.98 29442713.10 0.2621 0.1069 *

Mars 75899-07-13 00:00 G 29442793.40 29442793.50 29442793.61 0.1745 0.0808

Venus 75899-10-14 13:27 G 29442886.97 29442887.06 29442887.15 0.3659 0.2183

Mars 75900-05-27 23:17 G 29443112.42 29443112.47 29443112.52 0.1762 0.1652

Jupiter 75903-10-17 17:31 G 29444350.07 29444350.23 29444350.38 0.0537 0.0043

Mars 75908-12-03 09:22 G 29446223.83 29446223.89 29446223.96 0.1738 0.1439

Jupiter 75909-06-03 11:03 G 29446405.81 29446405.96 29446406.10 0.0491 0.0075

Mars 75909-10-18 00:29 G 29446542.38 29446542.52 29446542.67 0.1769 0.0667

Earth 75909-10-27 17:17 G 29446552.13 29446552.22 29446552.30 0.2704 0.1929

Moon 75909-10-27 17:31 G 29446552.14 29446552.23 29446552.31 0.2698 0.2024 *

Mars 75910-11-08 21:36 G 29446929.32 29446929.40 29446929.48 0.1764 0.1309

Saturn 75911-12-22 23:46 G 29447338.40 29447338.49 29447338.58 0.0286 0.0238

Saturn 75912-03-20 18:15 G 29447427.10 29447427.26 29447427.42 0.0285 0.0076

Moon 75912-04-26 08:24 G 29447463.72 29447463.85 29447463.98 0.2623 0.0381

Earth 75912-04-26 08:53 G 29447463.74 29447463.87 29447464.00 0.2628 0.0359 *

Saturn 75912-06-17 12:15 G 29447515.86 29447516.01 29447516.17 0.0285 0.0082

Saturn 75912-09-14 05:46 G 29447604.65 29447604.74 29447604.83 0.0284 0.0234

Jupiter 75915-08-05 17:31 G 29448660.08 29448660.23 29448660.38 0.0537 0.0185

Earth 75916-10-20 02:39 G 29449101.57 29449101.61 29449101.66 0.2705 0.2520

Moon 75916-10-20 03:22 G 29449101.59 29449101.64 29449101.69 0.2711 0.2479 *

Mars 75919-03-10 01:27 G 29449972.41 29449972.56 29449972.72 0.1776 0.0360

Mars 75920-03-31 06:15 G 29450359.64 29450359.76 29450359.87 0.1758 0.0608

Pluto 75920-12-26 03:51 G 29450629.62 29450629.66 29450629.74 0.0081 0.0075

Jupiter 75921-03-22 14:10 G 29450715.97 29450716.09 29450716.22 0.0491 0.0234

Pluto 75921-03-24 05:31 G 29450717.63 29450717.73 29450717.86 0.0081 0.0054

Jupiter 75921-06-20 00:29 G 29450805.45 29450805.52 29450805.59 0.0489 0.0419

Pluto 75921-06-20 07:12 G 29450805.67 29450805.80 29450805.96 0.0080 0.0033

Pluto 75921-09-16 09:07 G 29450893.73 29450893.88 29450894.04 0.0080 0.0011

Pluto 75921-12-13 10:48 G 29450981.80 29450981.95 29450982.11 0.0080 0.0010

Pluto 75922-03-11 12:15 G 29451069.88 29451070.01 29451070.16 0.0080 0.0031

Pluto 75922-06-07 14:10 G 29451157.97 29451158.09 29451158.21 0.0080 0.0051

Pluto 75922-09-03 15:36 G 29451246.09 29451246.15 29451246.22 0.0080 0.0072

Moon 75925-04-29 05:46 G 29452214.64 29452214.74 29452214.84 0.2626 0.1616

Earth 75925-04-29 06:43 G 29452214.69 29452214.78 29452214.87 0.2629 0.1793 *

Saturn 75927-03-29 06:58 G 29452913.68 29452913.79 29452913.90 0.0274 0.0181

Jupiter 75927-05-24 17:46 G 29452970.14 29452970.24 29452970.34 0.0536 0.0408

Saturn 75927-06-25 19:55 G 29453002.19 29453002.33 29453002.48 0.0274 0.0060

Jupiter 75927-08-22 16:34 G 29453060.15 29453060.19 29453060.23 0.0539 0.0517

Saturn 75927-09-22 09:22 G 29453090.75 29453090.89 29453091.03 0.0274 0.0066

Saturn 75927-12-19 22:48 G 29453179.35 29453179.45 29453179.56 0.0275 0.0195

Mars 75928-07-30 01:55 G 29453402.48 29453402.58 29453402.67 0.1783 0.1434

Uranus 75929-03-03 12:00 G 29453618.94 29453619.00 29453619.09 0.0144 0.0123

Uranus 75929-05-30 17:03 G 29453707.11 29453707.21 29453707.32 0.0144 0.0099

Mars 75929-08-21 14:53 G 29453790.00 29453790.12 29453790.25 0.1751 0.0090

Uranus 75929-08-26 22:05 G 29453795.29 29453795.42 29453795.55 0.0144 0.0074

Earth 75929-10-23 01:41 G 29453852.45 29453852.57 29453852.69 0.2705 0.0882

Moon 75929-10-23 02:39 G 29453852.49 29453852.61 29453852.74 0.2705 0.0778 *

Uranus 75929-11-23 02:53 G 29453883.48 29453883.62 29453883.77 0.0144 0.0050

Uranus 75930-02-19 07:55 G 29453971.69 29453971.83 29453971.99 0.0144 0.0026

Uranus 75930-05-18 13:12 G 29454059.89 29454060.05 29454060.20 0.0144 0.0004

Uranus 75930-08-14 18:15 G 29454148.11 29454148.26 29454148.41 0.0144 0.0025

Uranus 75930-11-10 23:17 G 29454236.33 29454236.47 29454236.62 0.0144 0.0050

Uranus 75931-02-07 04:19 G 29454324.55 29454324.68 29454324.82 0.0144 0.0075

Uranus 75931-05-06 09:36 G 29454412.79 29454412.90 29454413.01 0.0144 0.0101

Uranus 75931-08-02 14:39 G 29454501.05 29454501.11 29454501.19 0.0144 0.0127

Earth 75932-04-21 19:27 G 29454764.24 29454764.31 29454764.38 0.2627 0.2112

Moon 75932-04-21 20:10 G 29454764.26 29454764.34 29454764.42 0.2623 0.2050 *

Venus 75932-09-09 19:55 G 29454905.24 29454905.33 29454905.41 0.3714 0.2694

Jupiter 75933-01-08 17:31 G 29455026.15 29455026.23 29455026.32 0.0492 0.0391

Jupiter 75933-04-08 03:22 G 29455115.52 29455115.64 29455115.77 0.0490 0.0258

Venus 75938-03-26 18:29 G 29456929.16 29456929.27 29456929.38 0.3712 0.1886

Mars 75939-01-12 00:00 G 29457220.39 29457220.50 29457220.61 0.1745 0.0730

Jupiter 75939-06-10 16:48 G 29457370.07 29457370.20 29457370.33 0.0538 0.0297

Saturn 75941-08-07 17:17 G 29458159.07 29458159.22 29458159.36 0.0286 0.0133

Saturn 75941-11-04 11:31 G 29458247.82 29458247.98 29458248.14 0.0285 0.0027

Saturn 75942-02-01 05:17 G 29458336.60 29458336.72 29458336.84 0.0285 0.0182

Earth 75942-10-26 00:15 G 29458603.39 29458603.51 29458603.64 0.2704 0.0701

Moon 75942-10-26 01:12 G 29458603.43 29458603.55 29458603.67 0.2701 0.0856 *

Jupiter 75945-01-25 06:00 G 29459425.60 29459425.75 29459425.89 0.0491 0.0086

Venus 75945-04-21 22:48 G 29459512.39 29459512.45 29459512.51 0.3657 0.3043

Earth 75945-04-24 16:48 G 29459515.07 29459515.20 29459515.32 0.2628 0.0771

Moon 75945-04-24 16:48 G 29459515.08 29459515.20 29459515.33 0.2621 0.0690 *

Mars 75948-06-03 09:22 G 29460650.82 29460650.89 29460650.97 0.1738 0.1358

Mars 75949-04-18 01:12 G 29460969.41 29460969.55 29460969.69 0.1769 0.0790

Mars 75950-05-09 21:36 G 29461356.33 29461356.40 29461356.48 0.1765 0.1396

Venus 75950-11-05 17:03 G 29461536.10 29461536.21 29461536.33 0.3658 0.0189

Jupiter 75951-03-29 16:34 G 29461680.04 29461680.19 29461680.34 0.0537 0.0065

Moon 75955-10-28 22:34 G 29463354.37 29463354.44 29463354.52 0.2697 0.2142

Earth 75955-10-28 22:34 G 29463354.37 29463354.44 29463354.51 0.2704 0.2215 *

Venus 75956-05-21 11:46 G 29463559.95 29463559.99 29463560.03 0.3660 0.3411

Saturn 75956-08-15 10:19 G 29463645.84 29463645.93 29463646.03 0.0273 0.0203

Saturn 75956-11-11 23:17 G 29463734.33 29463734.47 29463734.61 0.0274 0.0082

Jupiter 75956-11-13 09:07 G 29463735.73 29463735.88 29463736.02 0.0491 0.0078

Saturn 75957-02-08 12:29 G 29463822.88 29463823.02 29463823.17 0.0274 0.0044

Saturn 75957-05-08 02:10 G 29463911.48 29463911.59 29463911.71 0.0275 0.0171

Moon 75958-04-27 13:41 G 29464265.94 29464266.07 29464266.19 0.2623 0.0495

Earth 75958-04-27 14:10 G 29464265.97 29464266.09 29464266.22 0.2628 0.0634 *

Mars 75958-09-08 01:55 G 29464399.43 29464399.58 29464399.74 0.1776 0.0245

Mars 75959-09-30 06:15 G 29464786.65 29464786.76 29464786.87 0.1758 0.0689

Earth 75962-10-21 08:10 G 29465903.77 29465903.84 29465903.92 0.2705 0.2209

Moon 75962-10-21 08:53 G 29465903.79 29465903.87 29465903.96 0.2710 0.2080 *

Jupiter 75963-01-15 15:22 G 29465990.00 29465990.14 29465990.29 0.0536 0.0184

Mars 75968-01-29 02:24 G 29467829.49 29467829.60 29467829.70 0.1783 0.1319

Jupiter 75968-09-01 12:29 G 29468045.89 29468046.02 29468046.15 0.0492 0.0232

Jupiter 75968-11-29 22:48 G 29468135.38 29468135.45 29468135.52 0.0490 0.0423

Mars 75969-02-19 15:08 G 29468217.01 29468217.13 29468217.25 0.1751 0.0036

Neptune 75969-02-24 17:17 G 29468222.18 29468222.22 29468222.29 0.0088 0.0081

Neptune 75969-05-23 19:12 G 29468310.23 29468310.30 29468310.40 0.0088 0.0073

Neptune 75969-08-19 21:08 G 29468398.29 29468398.38 29468398.49 0.0088 0.0065

Neptune 75969-11-15 23:03 G 29468486.36 29468486.46 29468486.59 0.0088 0.0057

Neptune 75970-02-12 01:12 G 29468574.43 29468574.55 29468574.68 0.0088 0.0049

Neptune 75970-05-11 03:08 G 29468662.50 29468662.63 29468662.77 0.0088 0.0041

Neptune 75970-08-07 05:03 G 29468750.57 29468750.71 29468750.85 0.0088 0.0033

Neptune 75970-11-03 06:58 G 29468838.65 29468838.79 29468838.94 0.0088 0.0025

Saturn 75970-12-25 18:44 G 29468891.15 29468891.28 29468891.42 0.0286 0.0167

Neptune 75971-01-30 08:53 G 29468926.72 29468926.87 29468927.02 0.0088 0.0017

Saturn 75971-03-24 13:12 G 29468979.88 29468980.05 29468980.21 0.0285 0.0010

Neptune 75971-04-28 10:48 G 29469014.80 29469014.95 29469015.11 0.0088 0.0009

Moon 75971-04-30 11:03 G 29469016.88 29469016.96 29469017.04 0.2627 0.2042

Earth 75971-04-30 12:00 G 29469016.93 29469017.00 29469017.08 0.2629 0.2074 *

Saturn 75971-06-21 06:58 G 29469068.65 29469068.79 29469068.93 0.0285 0.0149

Neptune 75971-07-25 12:58 G 29469102.88 29469103.04 29469103.19 0.0088 0.0002

Uranus 75971-09-17 03:22 G 29469156.64 29469156.64 29469156.66 0.0134 0.0134

Neptune 75971-10-21 14:53 G 29469190.96 29469191.12 29469191.27 0.0088 0.0008

Uranus 75971-12-14 08:24 G 29469244.77 29469244.85 29469244.95 0.0134 0.0112

Neptune 75972-01-17 16:48 G 29469279.05 29469279.20 29469279.35 0.0088 0.0016

Uranus 75972-03-11 13:27 G 29469332.95 29469333.06 29469333.18 0.0134 0.0090

Neptune 75972-04-14 18:44 G 29469367.13 29469367.28 29469367.43 0.0088 0.0024

Uranus 75972-06-07 18:29 G 29469421.13 29469421.27 29469421.41 0.0134 0.0068

Neptune 75972-07-11 20:53 G 29469455.22 29469455.37 29469455.51 0.0088 0.0032

Uranus 75972-09-03 23:17 G 29469509.32 29469509.47 29469509.63 0.0134 0.0047

Neptune 75972-10-07 22:34 G 29469543.31 29469543.44 29469543.59 0.0088 0.0041

Uranus 75972-12-01 04:05 G 29469597.52 29469597.67 29469597.84 0.0134 0.0026

Neptune 75973-01-04 00:44 G 29469631.41 29469631.53 29469631.66 0.0088 0.0049

Uranus 75973-02-27 09:08 G 29469685.72 29469685.88 29469686.04 0.0134 0.0004

Neptune 75973-04-02 02:39 G 29469719.50 29469719.61 29469719.74 0.0088 0.0057

Uranus 75973-05-26 13:56 G 29469773.92 29469774.08 29469774.24 0.0134 0.0018

Neptune 75973-06-29 04:34 G 29469807.60 29469807.69 29469807.81 0.0088 0.0066

Uranus 75973-08-22 18:29 G 29469862.12 29469862.27 29469862.43 0.0134 0.0039

Neptune 75973-09-25 06:44 G 29469895.71 29469895.78 29469895.87 0.0088 0.0074

Uranus 75973-11-18 23:17 G 29469950.33 29469950.47 29469950.61 0.0134 0.0060

Neptune 75973-12-22 08:53 G 29469983.82 29469983.87 29469983.93 0.0088 0.0082

Uranus 75974-02-15 03:51 G 29470038.54 29470038.66 29470038.79 0.0134 0.0081

Uranus 75974-05-14 08:24 G 29470126.76 29470126.85 29470126.96 0.0135 0.0102

Uranus 75974-08-10 13:12 G 29470214.99 29470215.05 29470215.12 0.0135 0.0122

Jupiter 75974-11-03 15:08 G 29470300.04 29470300.13 29470300.23 0.0536 0.0416

Jupiter 75975-02-01 13:56 G 29470390.04 29470390.08 29470390.13 0.0538 0.0509

Earth 75975-10-24 07:12 G 29470654.67 29470654.80 29470654.92 0.2705 0.0583

Moon 75975-10-24 08:10 G 29470654.72 29470654.84 29470654.97 0.2704 0.0490 *

Earth 75978-04-23 00:44 G 29471566.44 29471566.53 29471566.62 0.2627 0.1859

Moon 75978-04-23 01:12 G 29471566.46 29471566.55 29471566.64 0.2622 0.1806 *

Mars 75978-07-13 00:00 G 29471647.39 29471647.50 29471647.62 0.1745 0.0651

Jupiter 75980-06-20 15:51 G 29472356.07 29472356.16 29472356.25 0.0492 0.0389

Jupiter 75980-09-18 01:41 G 29472445.45 29472445.57 29472445.70 0.0490 0.0260

Saturn 75986-01-02 11:32 G 29474377.92 29474377.98 29474378.05 0.0273 0.0243

Saturn 75986-04-01 00:29 G 29474466.39 29474466.52 29474466.65 0.0274 0.0123

Saturn 75986-06-28 13:41 G 29474554.92 29474555.07 29474555.22 0.0274 0.0003

Saturn 75986-09-25 03:08 G 29474643.50 29474643.63 29474643.76 0.0275 0.0128

Jupiter 75986-11-20 14:39 G 29474699.98 29474700.11 29474700.24 0.0538 0.0293

Saturn 75986-12-22 16:48 G 29474732.15 29474732.20 29474732.25 0.0275 0.0258

Mars 75987-12-03 09:22 G 29475077.81 29475077.89 29475077.97 0.1738 0.1288

Mars 75988-10-17 01:56 G 29475396.45 29475396.58 29475396.71 0.1769 0.0914

Earth 75988-10-26 05:46 G 29475405.62 29475405.74 29475405.86 0.2704 0.0989

Moon 75988-10-26 06:29 G 29475405.65 29475405.77 29475405.89 0.2700 0.1026 *

Venus 75989-04-16 19:12 G 29475578.18 29475578.30 29475578.42 0.3713 0.1012

Mars 75989-11-07 21:36 G 29475783.33 29475783.40 29475783.46 0.1764 0.1467

Moon 75991-04-25 22:05 G 29476317.29 29476317.42 29476317.55 0.2621 0.0529

Earth 75991-04-25 22:05 G 29476317.29 29476317.42 29476317.54 0.2628 0.0508 *

Jupiter 75992-07-07 04:48 G 29476755.56 29476755.70 29476755.84 0.0491 0.0098

Venus 75994-10-31 17:46 G 29477602.20 29477602.24 29477602.28 0.3712 0.3482

Mars 75998-03-09 02:39 G 29478826.46 29478826.61 29478826.77 0.1776 0.0118

Jupiter 75998-09-08 14:53 G 29479009.97 29479010.12 29479010.28 0.0537 0.0073

Mars 75999-03-31 06:15 G 29479213.65 29479213.76 29479213.87 0.1758 0.0768

Saturn 76000-05-13 17:32 G 29479623.14 29479623.23 29479623.34 0.0286 0.0225

Saturn 76000-08-10 12:15 G 29479711.85 29479712.01 29479712.17 0.0286 0.0062

Saturn 76000-11-07 06:15 G 29479800.61 29479800.76 29479800.92 0.0285 0.0096

77TH MILLENNIUM CE

This is a list of transits of Mercury in the 77th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Saturn 76001-02-03 23:46 G 29479889.42 29479889.49 29479889.57 0.0285 0.0249

Earth 76001-10-29 04:05 G 29480156.62 29480156.67 29480156.71 0.2704 0.2501

Moon 76001-10-29 04:05 G 29480156.63 29480156.67 29480156.70 0.2696 0.2561 *

Venus 76001-11-26 20:53 G 29480185.27 29480185.37 29480185.47 0.3657 0.1875

Jupiter 76004-04-25 07:12 G 29481065.66 29481065.80 29481065.95 0.0491 0.0075

Moon 76004-04-27 18:58 G 29481068.16 29481068.29 29481068.41 0.2623 0.0890

Earth 76004-04-27 19:41 G 29481068.20 29481068.32 29481068.44 0.2628 0.0906 *

Venus 76007-06-12 15:22 G 29482209.03 29482209.14 29482209.24 0.3659 0.1331

Mars 76007-07-30 03:08 G 29482256.51 29482256.63 29482256.74 0.1783 0.1186

Mars 76008-08-20 15:08 G 29482644.01 29482644.13 29482644.25 0.1751 0.0091

Earth 76008-10-21 13:41 G 29482705.98 29482706.07 29482706.16 0.2705 0.1902

Moon 76008-10-21 14:39 G 29482706.02 29482706.11 29482706.20 0.2709 0.1877 *

Jupiter 76010-06-27 14:39 G 29483319.96 29483320.11 29483320.25 0.0536 0.0163

Uranus 76012-12-25 14:53 G 29484232.09 29484232.12 29484232.17 0.0144 0.0138

Uranus 76013-03-23 19:41 G 29484320.24 29484320.32 29484320.42 0.0144 0.0114

Uranus 76013-06-20 00:29 G 29484408.42 29484408.52 29484408.65 0.0144 0.0090

Uranus 76013-09-16 05:46 G 29484496.60 29484496.74 29484496.87 0.0144 0.0065

Uranus 76013-12-13 10:34 G 29484584.80 29484584.94 29484585.09 0.0144 0.0041

Uranus 76014-03-11 15:36 G 29484673.00 29484673.15 29484673.31 0.0144 0.0016

Uranus 76014-06-07 20:39 G 29484761.21 29484761.36 29484761.52 0.0144 0.0010

Uranus 76014-09-04 01:56 G 29484849.43 29484849.58 29484849.73 0.0144 0.0034

Uranus 76014-12-01 06:44 G 29484937.65 29484937.78 29484937.93 0.0144 0.0060

Uranus 76015-02-27 12:00 G 29485025.88 29485026.00 29485026.13 0.0144 0.0085

Saturn 76015-05-22 14:53 G 29485110.09 29485110.12 29485110.16 0.0273 0.0265

Uranus 76015-05-26 17:03 G 29485114.13 29485114.21 29485114.32 0.0144 0.0111

Saturn 76015-08-19 03:51 G 29485198.54 29485198.66 29485198.78 0.0274 0.0145

Uranus 76015-08-22 22:34 G 29485202.40 29485202.44 29485202.49 0.0144 0.0136

Saturn 76015-11-15 17:03 G 29485287.06 29485287.21 29485287.35 0.0274 0.0022

Saturn 76016-02-12 06:29 G 29485375.63 29485375.77 29485375.90 0.0274 0.0105

Jupiter 76016-02-12 10:20 G 29485375.81 29485375.93 29485376.06 0.0492 0.0236 *

Saturn 76016-05-10 20:10 G 29485464.26 29485464.34 29485464.41 0.0275 0.0234

Jupiter 76016-05-11 20:39 G 29485465.29 29485465.36 29485465.43 0.0490 0.0420

Moon 76017-04-30 16:34 G 29485819.12 29485819.19 29485819.26 0.2628 0.2169

Earth 76017-04-30 17:32 G 29485819.17 29485819.23 29485819.28 0.2629 0.2352 *

Mars 76018-01-11 00:00 G 29486074.39 29486074.50 29486074.62 0.1745 0.0572

Earth 76021-10-24 12:44 G 29487456.90 29487457.03 29487457.16 0.2705 0.0283

Moon 76021-10-24 13:41 G 29487456.95 29487457.07 29487457.20 0.2704 0.0150 *

Jupiter 76022-04-15 13:12 G 29487629.95 29487630.05 29487630.14 0.0536 0.0417

Jupiter 76022-07-14 12:00 G 29487719.95 29487720.00 29487720.05 0.0538 0.0506

Earth 76024-04-23 06:00 G 29488368.65 29488368.75 29488368.85 0.2627 0.1597

Moon 76024-04-23 06:29 G 29488368.67 29488368.77 29488368.88 0.2621 0.1503 *

Mars 76027-06-03 09:22 G 29489504.81 29489504.89 29489504.98 0.1738 0.1203

Jupiter 76027-12-01 13:56 G 29489685.99 29489686.08 29489686.17 0.0493 0.0390

Jupiter 76028-02-28 23:46 G 29489775.37 29489775.49 29489775.62 0.0490 0.0260

Mars 76028-04-17 02:10 G 29489823.47 29489823.59 29489823.72 0.1769 0.1018

Mars 76029-05-08 21:36 G 29490210.35 29490210.40 29490210.46 0.1764 0.1554

Saturn 76029-09-30 19:41 G 29490355.25 29490355.32 29490355.39 0.0286 0.0255

Saturn 76029-12-28 14:10 G 29490443.94 29490444.09 29490444.25 0.0285 0.0093

Saturn 76030-03-27 08:24 G 29490532.69 29490532.85 29490533.01 0.0285 0.0066

Saturn 76030-06-24 02:10 G 29490621.49 29490621.59 29490621.69 0.0285 0.0220

Jupiter 76034-05-02 12:00 G 29492029.87 29492030.00 29492030.13 0.0538 0.0281

Earth 76034-10-27 11:03 G 29492207.85 29492207.96 29492208.08 0.2704 0.1284

Moon 76034-10-27 11:46 G 29492207.88 29492207.99 29492208.10 0.2699 0.1339 *

Moon 76037-04-26 03:08 G 29493119.50 29493119.63 29493119.76 0.2622 0.0249

Earth 76037-04-26 03:22 G 29493119.51 29493119.64 29493119.77 0.2628 0.0234 *

Mars 76037-09-07 03:22 G 29493253.48 29493253.64 29493253.79 0.1776 0.0044

Mars 76038-09-29 06:15 G 29493640.65 29493640.76 29493640.87 0.1758 0.0848

Jupiter 76039-12-18 02:53 G 29494085.48 29494085.62 29494085.76 0.0491 0.0098

Saturn 76045-01-05 05:17 G 29495930.62 29495930.72 29495930.83 0.0274 0.0182

Saturn 76045-04-03 18:29 G 29496019.12 29496019.27 29496019.41 0.0274 0.0060

Saturn 76045-07-01 07:41 G 29496107.68 29496107.82 29496107.96 0.0274 0.0065

Saturn 76045-09-27 21:08 G 29496196.28 29496196.38 29496196.49 0.0275 0.0193

Venus 76045-11-21 18:29 G 29496251.15 29496251.27 29496251.40 0.3713 0.0634

Jupiter 76046-02-18 12:15 G 29496339.86 29496340.01 29496340.17 0.0537 0.0064

Mars 76047-01-28 03:36 G 29496683.53 29496683.65 29496683.78 0.1783 0.1055

Mars 76048-02-19 14:53 G 29497071.00 29497071.12 29497071.25 0.1751 0.0171

Moon 76050-04-29 00:15 G 29497870.39 29497870.51 29497870.63 0.2624 0.1040

Earth 76050-04-29 00:58 G 29497870.43 29497870.54 29497870.66 0.2628 0.1177 *

Neptune 76051-03-11 11:17 G 29498186.95 29498186.97 29498187.02 0.0090 0.0088

Neptune 76051-06-07 13:56 G 29498275.01 29498275.08 29498275.17 0.0090 0.0078

Neptune 76051-09-03 16:20 G 29498363.08 29498363.18 29498363.29 0.0090 0.0069

Jupiter 76051-10-06 06:00 G 29498395.61 29498395.75 29498395.90 0.0491 0.0063

Neptune 76051-11-30 18:29 G 29498451.17 29498451.27 29498451.41 0.0090 0.0060

Neptune 76052-02-26 21:22 G 29498539.25 29498539.39 29498539.52 0.0090 0.0050

Neptune 76052-05-24 23:32 G 29498627.34 29498627.48 29498627.63 0.0090 0.0041

Neptune 76052-08-21 01:56 G 29498715.43 29498715.58 29498715.73 0.0090 0.0032

Neptune 76052-11-17 04:20 G 29498803.52 29498803.68 29498803.84 0.0090 0.0023

Neptune 76053-02-13 06:44 G 29498891.62 29498891.78 29498891.94 0.0090 0.0014

Neptune 76053-05-12 09:08 G 29498979.71 29498979.88 29498980.04 0.0090 0.0005

Neptune 76053-08-08 11:17 G 29499067.81 29499067.97 29499068.13 0.0090 0.0005

Neptune 76053-11-04 13:41 G 29499155.91 29499156.07 29499156.23 0.0090 0.0014

Neptune 76054-01-31 15:51 G 29499244.01 29499244.16 29499244.32 0.0090 0.0023

Neptune 76054-04-29 18:00 G 29499332.11 29499332.25 29499332.41 0.0090 0.0032

Neptune 76054-07-26 20:10 G 29499420.21 29499420.34 29499420.50 0.0090 0.0041

Earth 76054-10-22 19:12 G 29499508.20 29499508.30 29499508.41 0.2705 0.1597

Moon 76054-10-22 20:24 G 29499508.24 29499508.35 29499508.46 0.2707 0.1399 *

Neptune 76054-10-22 22:20 G 29499508.31 29499508.43 29499508.58 0.0090 0.0050 *

Neptune 76055-01-19 00:58 G 29499596.42 29499596.54 29499596.66 0.0090 0.0058

Neptune 76055-04-17 03:08 G 29499684.53 29499684.63 29499684.74 0.0090 0.0067

Neptune 76055-07-14 05:03 G 29499772.64 29499772.71 29499772.81 0.0090 0.0076

Uranus 76055-10-07 11:17 G 29499857.92 29499857.97 29499858.04 0.0134 0.0124

Neptune 76055-10-10 07:41 G 29499860.77 29499860.82 29499860.87 0.0090 0.0084

Uranus 76056-01-03 16:20 G 29499946.08 29499946.18 29499946.29 0.0134 0.0102

Uranus 76056-03-31 21:22 G 29500034.27 29500034.39 29500034.53 0.0134 0.0080

Uranus 76056-06-28 02:24 G 29500122.46 29500122.60 29500122.75 0.0134 0.0058

Uranus 76056-09-24 07:12 G 29500210.65 29500210.80 29500210.96 0.0134 0.0037

Uranus 76056-12-21 12:15 G 29500298.85 29500299.01 29500299.17 0.0134 0.0015

Uranus 76057-03-19 17:03 G 29500387.05 29500387.21 29500387.37 0.0134 0.0006

Moon 76057-04-21 15:08 G 29500420.09 29500420.13 29500420.16 0.2624 0.2499

Uranus 76057-06-15 21:51 G 29500475.25 29500475.41 29500475.57 0.0134 0.0027

Mars 76057-07-12 00:15 G 29500501.39 29500501.51 29500501.62 0.1745 0.0491

Uranus 76057-09-12 02:24 G 29500563.46 29500563.60 29500563.76 0.0134 0.0049

Jupiter 76057-12-07 12:44 G 29500649.88 29500650.03 29500650.18 0.0536 0.0161

Uranus 76057-12-09 07:12 G 29500651.67 29500651.80 29500651.94 0.0134 0.0070

Uranus 76058-03-07 11:46 G 29500739.88 29500739.99 29500740.11 0.0135 0.0091

Uranus 76058-06-03 16:34 G 29500828.11 29500828.19 29500828.28 0.0135 0.0111

Venus 76058-07-03 18:58 G 29500858.18 29500858.29 29500858.40 0.3658 0.0701

Uranus 76058-08-30 21:08 G 29500916.36 29500916.38 29500916.42 0.0135 0.0132

Saturn 76059-05-17 13:12 G 29501175.91 29501176.05 29501176.19 0.0286 0.0149

Saturn 76059-08-14 07:41 G 29501264.66 29501264.82 29501264.98 0.0285 0.0012

Saturn 76059-11-11 01:27 G 29501353.43 29501353.56 29501353.69 0.0285 0.0167

Moon 76063-05-01 21:51 G 29502621.39 29502621.41 29502621.43 0.2630 0.2599

Jupiter 76063-07-25 08:39 G 29502705.73 29502705.86 29502705.98 0.0492 0.0235

Jupiter 76063-10-22 18:44 G 29502795.21 29502795.28 29502795.36 0.0490 0.0420

Venus 76064-01-17 13:27 G 29502881.98 29502882.06 29502882.14 0.3659 0.2523

Mars 76066-12-02 09:22 G 29503931.80 29503931.89 29503931.98 0.1738 0.1125

Mars 76067-10-17 02:53 G 29504250.50 29504250.62 29504250.74 0.1769 0.1138

Earth 76067-10-25 18:15 G 29504259.13 29504259.26 29504259.38 0.2705 0.0095

Moon 76067-10-25 19:12 G 29504259.17 29504259.30 29504259.43 0.2703 0.0083 *

Mars 76068-11-06 21:51 G 29504637.36 29504637.41 29504637.45 0.1764 0.1636

Jupiter 76069-09-25 12:00 G 29504959.90 29504960.00 29504960.11 0.0535 0.0397

Jupiter 76069-12-24 10:48 G 29505049.93 29505049.95 29505049.98 0.0538 0.0526

Earth 76070-04-24 11:17 G 29505170.86 29505170.97 29505171.08 0.2627 0.1336

Moon 76070-04-24 11:46 G 29505170.88 29505170.99 29505171.10 0.2622 0.1323 *

Saturn 76074-05-25 08:24 G 29506662.76 29506662.85 29506662.95 0.0273 0.0206

Saturn 76074-08-21 21:22 G 29506751.26 29506751.39 29506751.53 0.0274 0.0085

Saturn 76074-11-18 10:48 G 29506839.80 29506839.95 29506840.09 0.0274 0.0041

Saturn 76075-02-15 00:15 G 29506928.40 29506928.51 29506928.63 0.0275 0.0168

Jupiter 76075-05-13 11:46 G 29507015.91 29507015.99 29507016.07 0.0493 0.0395

Jupiter 76075-08-10 21:36 G 29507105.28 29507105.40 29507105.53 0.0490 0.0255

Mars 76077-03-08 03:51 G 29507680.51 29507680.66 29507680.82 0.1776 0.0126

Pluto 76077-03-16 13:56 G 29507689.05 29507689.08 29507689.15 0.0064 0.0061

Pluto 76077-06-12 14:53 G 29507777.04 29507777.12 29507777.23 0.0064 0.0050

Pluto 76077-09-08 15:51 G 29507865.04 29507865.16 29507865.30 0.0064 0.0039

Pluto 76077-12-05 16:34 G 29507953.06 29507953.19 29507953.35 0.0064 0.0029

Pluto 76078-03-03 17:32 G 29508041.09 29508041.23 29508041.39 0.0064 0.0018

Mars 76078-03-30 06:15 G 29508067.66 29508067.76 29508067.87 0.1758 0.0931

Pluto 76078-05-30 18:29 G 29508129.12 29508129.27 29508129.43 0.0064 0.0007

Pluto 76078-08-26 19:27 G 29508217.15 29508217.31 29508217.47 0.0064 0.0004

Pluto 76078-11-22 20:10 G 29508305.19 29508305.34 29508305.50 0.0064 0.0015

Pluto 76079-02-18 21:08 G 29508393.23 29508393.38 29508393.53 0.0064 0.0026

Pluto 76079-05-17 21:51 G 29508481.28 29508481.41 29508481.54 0.0064 0.0037

Pluto 76079-08-13 22:34 G 29508569.34 29508569.44 29508569.56 0.0064 0.0048

Pluto 76079-11-09 23:17 G 29508657.42 29508657.47 29508657.55 0.0064 0.0059

Earth 76080-10-27 16:34 G 29509010.09 29509010.19 29509010.29 0.2704 0.1569

Moon 76080-10-27 17:03 G 29509010.11 29509010.21 29509010.31 0.2698 0.1629 *

Jupiter 76081-10-12 09:51 G 29509359.78 29509359.91 29509360.04 0.0537 0.0279

Moon 76083-04-27 08:24 G 29509921.72 29509921.85 29509921.98 0.2622 0.0075

Earth 76083-04-27 08:39 G 29509921.73 29509921.86 29509921.99 0.2628 0.0068 *

Mars 76086-07-29 04:05 G 29511110.54 29511110.67 29511110.80 0.1783 0.0945

Jupiter 76087-05-30 00:58 G 29511415.40 29511415.54 29511415.68 0.0491 0.0097

Mars 76087-08-20 15:08 G 29511498.01 29511498.13 29511498.25 0.1751 0.0247

Saturn 76088-10-03 15:51 G 29511908.03 29511908.16 29511908.29 0.0286 0.0174

Saturn 76088-12-31 10:20 G 29511996.76 29511996.93 29511997.09 0.0285 0.0014

Saturn 76089-03-30 04:05 G 29512085.54 29512085.67 29512085.81 0.0285 0.0143

Jupiter 76093-07-31 09:36 G 29513669.75 29513669.90 29513670.06 0.0537 0.0050

Moon 76096-04-29 05:32 G 29514672.62 29514672.73 29514672.84 0.2625 0.1393

Earth 76096-04-29 06:15 G 29514672.66 29514672.76 29514672.87 0.2628 0.1457 *

Venus 76096-12-12 19:12 G 29514900.20 29514900.30 29514900.39 0.3714 0.2339

Mars 76097-01-10 00:00 G 29514928.39 29514928.50 29514928.62 0.1745 0.0417

Uranus 76097-01-14 22:20 G 29514933.38 29514933.43 29514933.50 0.0144 0.0130

Uranus 76097-04-13 03:08 G 29515021.54 29515021.63 29515021.74 0.0144 0.0106

Uranus 76097-07-10 08:10 G 29515109.72 29515109.84 29515109.97 0.0144 0.0082

Uranus 76097-10-06 13:12 G 29515197.91 29515198.05 29515198.19 0.0144 0.0057

Uranus 76098-01-02 18:00 G 29515286.11 29515286.25 29515286.40 0.0144 0.0033

Uranus 76098-03-31 23:03 G 29515374.31 29515374.46 29515374.62 0.0144 0.0009

Uranus 76098-06-28 04:05 G 29515462.52 29515462.67 29515462.83 0.0144 0.0018

Uranus 76098-09-24 09:08 G 29515550.74 29515550.88 29515551.03 0.0144 0.0043

Uranus 76098-12-21 14:24 G 29515638.96 29515639.10 29515639.24 0.0144 0.0068

Jupiter 76099-03-18 04:05 G 29515725.53 29515725.67 29515725.82 0.0491 0.0064

Uranus 76099-03-19 19:27 G 29515727.20 29515727.31 29515727.43 0.0144 0.0093

Uranus 76099-06-16 00:44 G 29515815.45 29515815.53 29515815.62 0.0144 0.0119

Earth 76100-10-24 00:44 G 29516310.42 29516310.53 29516310.65 0.2705 0.1288

Moon 76100-10-24 01:56 G 29516310.47 29516310.58 29516310.70 0.2707 0.1255 *

Venus 76102-06-29 17:46 G 29516924.14 29516924.24 29516924.34 0.3713 0.2248

Earth 76103-04-23 19:27 G 29517222.26 29517222.31 29517222.36 0.2627 0.2405

Moon 76103-04-23 20:10 G 29517222.30 29517222.34 29517222.39 0.2623 0.2397 *

Saturn 76103-10-13 10:20 G 29517394.87 29517394.93 29517395.00 0.0273 0.0240

Saturn 76104-01-09 23:17 G 29517483.34 29517483.47 29517483.60 0.0274 0.0120

Saturn 76104-04-07 12:29 G 29517571.87 29517572.02 29517572.16 0.0274 0.0009

Saturn 76104-07-05 01:41 G 29517660.44 29517660.57 29517660.70 0.0275 0.0130

Saturn 76104-10-01 15:22 G 29517749.10 29517749.14 29517749.19 0.0275 0.0260

Jupiter 76105-05-20 09:51 G 29517979.76 29517979.91 29517980.06 0.0537 0.0177

Mars 76106-06-03 09:22 G 29518358.79 29518358.89 29518358.98 0.1738 0.1049

Mars 76107-04-18 03:36 G 29518677.55 29518677.65 29518677.76 0.1769 0.1265

Mars 76108-05-08 21:36 G 29519064.38 29519064.40 29519064.43 0.1764 0.1712

Venus 76109-07-25 22:48 G 29519507.37 29519507.45 29519507.53 0.3657 0.2674

Jupiter 76111-01-05 07:27 G 29520035.68 29520035.81 29520035.93 0.0492 0.0224

Jupiter 76111-04-04 17:32 G 29520125.16 29520125.23 29520125.30 0.0490 0.0430

Earth 76113-10-26 23:32 G 29521061.36 29521061.48 29521061.61 0.2705 0.0322

Moon 76113-10-27 00:29 G 29521061.39 29521061.52 29521061.65 0.2702 0.0481 *

Venus 76115-02-08 17:03 G 29521531.10 29521531.21 29521531.32 0.3658 0.0469

Mars 76115-10-24 18:44 G 29521789.25 29521789.28 29521789.32 0.1732 0.1659

Earth 76116-04-25 16:34 G 29521973.08 29521973.19 29521973.31 0.2627 0.1072

Moon 76116-04-25 17:03 G 29521973.09 29521973.21 29521973.33 0.2622 0.0975 *

Mars 76116-09-07 04:20 G 29522107.53 29522107.68 29522107.84 0.1776 0.0241

Jupiter 76117-03-08 09:51 G 29522289.81 29522289.91 29522290.02 0.0536 0.0399

Jupiter 76117-06-06 08:53 G 29522379.84 29522379.87 29522379.90 0.0538 0.0526

Mars 76117-09-29 06:15 G 29522494.66 29522494.76 29522494.86 0.1758 0.1008

Saturn 76118-02-21 14:39 G 29522640.02 29522640.11 29522640.21 0.0286 0.0232

Saturn 76118-05-21 09:22 G 29522728.73 29522728.89 29522729.05 0.0285 0.0069

Saturn 76118-08-18 03:22 G 29522817.49 29522817.64 29522817.80 0.0285 0.0089

Saturn 76118-11-14 21:08 G 29522906.30 29522906.38 29522906.46 0.0284 0.0242

Jupiter 76122-10-24 10:05 G 29524345.83 29524345.92 29524346.00 0.0492 0.0394

Jupiter 76123-01-21 19:41 G 29524435.20 29524435.32 29524435.45 0.0490 0.0256

Mars 76126-01-28 04:48 G 29525537.56 29525537.70 29525537.84 0.1783 0.0810

Earth 76126-10-29 22:05 G 29525812.33 29525812.42 29525812.51 0.2704 0.1859

Moon 76126-10-29 22:20 G 29525812.34 29525812.43 29525812.53 0.2697 0.1856 *

Mars 76127-02-19 15:08 G 29525925.01 29525925.13 29525925.25 0.1751 0.0329

Jupiter 76129-03-25 08:53 G 29526689.74 29526689.87 29526690.00 0.0537 0.0298

Moon 76129-04-28 13:41 G 29526723.94 29526724.07 29526724.20 0.2622 0.0228

Earth 76129-04-28 14:10 G 29526723.96 29526724.09 29526724.21 0.2628 0.0320 *

Saturn 76133-03-01 13:12 G 29528127.03 29528127.05 29528127.08 0.0273 0.0266

Saturn 76133-05-29 02:10 G 29528215.47 29528215.59 29528215.71 0.0274 0.0146

Saturn 76133-08-25 15:22 G 29528303.99 29528304.14 29528304.28 0.0274 0.0025

Neptune 76133-08-26 14:24 G 29528305.07 29528305.10 29528305.14 0.0088 0.0085

Earth 76133-10-22 07:12 G 29528361.78 29528361.80 29528361.83 0.2706 0.2628

Moon 76133-10-22 07:56 G 29528361.80 29528361.83 29528361.87 0.2710 0.2596 *

Saturn 76133-11-22 04:34 G 29528392.56 29528392.69 29528392.83 0.0274 0.0104

Neptune 76133-11-22 16:20 G 29528393.11 29528393.18 29528393.25 0.0088 0.0077

Neptune 76134-02-18 18:00 G 29528481.17 29528481.25 29528481.35 0.0088 0.0069

Saturn 76134-02-18 18:15 G 29528481.19 29528481.26 29528481.34 0.0275 0.0233 *

Neptune 76134-05-17 19:56 G 29528569.23 29528569.33 29528569.45 0.0088 0.0062

Neptune 76134-08-13 21:51 G 29528657.30 29528657.41 29528657.54 0.0088 0.0054

Jupiter 76134-11-09 22:48 G 29528745.31 29528745.45 29528745.59 0.0491 0.0091

Neptune 76134-11-09 23:46 G 29528745.37 29528745.49 29528745.63 0.0088 0.0046 *

Neptune 76135-02-06 01:41 G 29528833.44 29528833.57 29528833.72 0.0088 0.0038

Neptune 76135-05-05 03:36 G 29528921.51 29528921.65 29528921.80 0.0088 0.0030

Neptune 76135-08-01 05:32 G 29529009.59 29529009.73 29529009.89 0.0088 0.0022

Neptune 76135-10-28 07:41 G 29529097.67 29529097.82 29529097.97 0.0088 0.0013

Neptune 76136-01-24 09:36 G 29529185.75 29529185.90 29529186.06 0.0088 0.0005

Neptune 76136-04-21 11:32 G 29529273.83 29529273.98 29529274.14 0.0088 0.0003

Mars 76136-07-12 00:15 G 29529355.39 29529355.51 29529355.62 0.1745 0.0339

Neptune 76136-07-18 13:27 G 29529361.91 29529362.06 29529362.22 0.0088 0.0011

Neptune 76136-10-14 15:36 G 29529450.00 29529450.15 29529450.30 0.0088 0.0019

Neptune 76137-01-10 17:17 G 29529538.08 29529538.22 29529538.38 0.0088 0.0028

Neptune 76137-04-08 19:27 G 29529626.17 29529626.31 29529626.46 0.0088 0.0036

Neptune 76137-07-05 21:22 G 29529714.26 29529714.39 29529714.53 0.0088 0.0044

Neptune 76137-10-01 23:32 G 29529802.36 29529802.48 29529802.61 0.0088 0.0052

Neptune 76137-12-29 01:12 G 29529890.45 29529890.55 29529890.68 0.0088 0.0061

Neptune 76138-03-27 03:22 G 29529978.56 29529978.64 29529978.75 0.0088 0.0069

Neptune 76138-06-23 05:32 G 29530066.66 29530066.73 29530066.81 0.0088 0.0077

Neptune 76138-09-19 07:27 G 29530154.79 29530154.81 29530154.85 0.0088 0.0086

Uranus 76139-10-28 19:12 G 29530559.22 29530559.30 29530559.39 0.0134 0.0115

Uranus 76140-01-25 00:15 G 29530647.40 29530647.51 29530647.63 0.0134 0.0093

Uranus 76140-04-22 05:17 G 29530735.58 29530735.72 29530735.86 0.0134 0.0071

Uranus 76140-07-19 10:05 G 29530823.78 29530823.92 29530824.08 0.0134 0.0049

Uranus 76140-10-15 15:08 G 29530911.97 29530912.13 29530912.29 0.0134 0.0027

Jupiter 76141-01-11 07:27 G 29530999.66 29530999.81 29530999.97 0.0537 0.0049

Uranus 76141-01-11 19:56 G 29531000.17 29531000.33 29531000.49 0.0134 0.0006

Uranus 76141-04-10 00:44 G 29531088.37 29531088.53 29531088.69 0.0134 0.0016

Uranus 76141-07-07 05:32 G 29531176.58 29531176.73 29531176.89 0.0134 0.0037

Uranus 76141-10-03 10:20 G 29531264.79 29531264.93 29531265.08 0.0135 0.0058

Uranus 76141-12-30 15:08 G 29531353.00 29531353.13 29531353.26 0.0135 0.0079

Uranus 76142-03-28 19:41 G 29531441.22 29531441.32 29531441.43 0.0135 0.0100

Moon 76142-05-01 10:48 G 29531474.85 29531474.95 29531475.05 0.2627 0.1637

Earth 76142-05-01 11:46 G 29531474.89 29531474.99 29531475.08 0.2628 0.1733 *

Uranus 76142-06-25 00:00 G 29531529.45 29531529.50 29531529.59 0.0135 0.0121

Mars 76145-12-02 09:22 G 29532785.79 29532785.89 29532785.99 0.1738 0.0971

Jupiter 76146-08-29 02:10 G 29533055.44 29533055.59 29533055.73 0.0492 0.0066

Mars 76146-10-17 03:51 G 29533104.57 29533104.66 29533104.76 0.1769 0.1362

Earth 76146-10-25 06:15 G 29533112.64 29533112.76 29533112.88 0.2705 0.0984

Moon 76146-10-25 07:27 G 29533112.69 29533112.81 29533112.93 0.2707 0.0775 *

Saturn 76147-07-11 17:17 G 29533372.16 29533372.22 29533372.30 0.0286 0.0256

Saturn 76147-10-08 12:00 G 29533460.85 29533461.00 29533461.16 0.0286 0.0093

Saturn 76148-01-05 06:15 G 29533549.60 29533549.76 29533549.92 0.0285 0.0065

Saturn 76148-04-03 00:00 G 29533638.40 29533638.50 29533638.60 0.0285 0.0219

Earth 76149-04-24 00:44 G 29534024.46 29534024.53 29534024.60 0.2627 0.2152

Moon 76149-04-24 01:27 G 29534024.48 29534024.56 29534024.64 0.2623 0.1989 *

Jupiter 76152-10-30 07:12 G 29535309.65 29535309.80 29535309.94 0.0536 0.0189

Venus 76153-07-20 18:15 G 29535573.14 29535573.26 29535573.39 0.3714 0.0692

Mars 76155-04-24 18:44 G 29536216.24 29536216.28 29536216.33 0.1732 0.1585

Mars 76156-03-08 05:03 G 29536534.56 29536534.71 29536534.86 0.1776 0.0368

Mars 76157-03-30 06:29 G 29536921.67 29536921.77 29536921.86 0.1758 0.1089

Jupiter 76158-06-17 05:32 G 29537365.60 29537365.73 29537365.85 0.0492 0.0225

Jupiter 76158-09-14 15:22 G 29537455.08 29537455.14 29537455.22 0.0490 0.0430

Earth 76159-10-28 05:03 G 29537863.59 29537863.71 29537863.84 0.2705 0.0612

Moon 76159-10-28 05:46 G 29537863.62 29537863.74 29537863.87 0.2700 0.0615 *

Earth 76162-04-26 21:51 G 29538775.29 29538775.41 29538775.53 0.2627 0.0810

Moon 76162-04-26 22:05 G 29538775.30 29538775.42 29538775.54 0.2621 0.0865 *

Saturn 76162-10-16 04:05 G 29538947.56 29538947.67 29538947.78 0.0274 0.0179

Saturn 76163-01-12 17:03 G 29539036.07 29539036.21 29539036.36 0.0274 0.0058

Saturn 76163-04-11 06:15 G 29539124.62 29539124.76 29539124.91 0.0274 0.0068

Saturn 76163-07-08 19:56 G 29539213.23 29539213.33 29539213.43 0.0275 0.0196

Jupiter 76164-08-18 06:58 G 29539619.69 29539619.79 29539619.89 0.0536 0.0418

Jupiter 76164-11-16 06:00 G 29539709.71 29539709.75 29539709.80 0.0538 0.0510

Mars 76165-07-29 05:32 G 29539964.58 29539964.73 29539964.87 0.1783 0.0687

Venus 76166-03-01 20:53 G 29540180.27 29540180.37 29540180.47 0.3657 0.1526

Mars 76166-08-20 15:08 G 29540352.01 29540352.13 29540352.24 0.1751 0.0404

Pluto 76166-11-22 18:29 G 29540446.20 29540446.27 29540446.35 0.0081 0.0070

Pluto 76167-02-18 20:10 G 29540534.22 29540534.34 29540534.47 0.0081 0.0049

Pluto 76167-05-17 21:51 G 29540622.27 29540622.41 29540622.56 0.0080 0.0028

Pluto 76167-08-13 23:32 G 29540710.33 29540710.48 29540710.64 0.0080 0.0007

Pluto 76167-11-10 01:12 G 29540798.40 29540798.55 29540798.70 0.0080 0.0014

Pluto 76168-02-06 02:39 G 29540886.48 29540886.61 29540886.76 0.0080 0.0035

Pluto 76168-05-04 04:05 G 29540974.58 29540974.67 29540974.80 0.0080 0.0056

Pluto 76168-07-31 05:46 G 29541062.71 29541062.74 29541062.80 0.0080 0.0077

Jupiter 76170-04-05 08:39 G 29541675.78 29541675.86 29541675.95 0.0492 0.0383

Jupiter 76170-07-03 18:29 G 29541765.15 29541765.27 29541765.40 0.0490 0.0266

Venus 76171-09-15 15:08 G 29542204.03 29542204.13 29542204.24 0.3658 0.1666

Earth 76172-10-30 03:22 G 29542614.57 29542614.64 29542614.72 0.2704 0.2149

Moon 76172-10-30 03:51 G 29542614.58 29542614.66 29542614.73 0.2698 0.2223 *

Mars 76174-12-19 05:17 G 29543394.72 29543394.72 29543394.73 0.1790 0.1789

Moon 76175-04-29 18:58 G 29543526.16 29543526.29 29543526.41 0.2622 0.0585

Earth 76175-04-29 19:27 G 29543526.18 29543526.31 29543526.43 0.2628 0.0583 *

Mars 76176-01-11 00:15 G 29543782.39 29543782.51 29543782.63 0.1745 0.0257

Jupiter 76176-09-04 06:44 G 29544019.65 29544019.78 29544019.91 0.0538 0.0296

Saturn 76177-02-24 11:03 G 29544192.82 29544192.96 29544193.10 0.0285 0.0150

Saturn 76177-05-24 05:32 G 29544281.56 29544281.73 29544281.89 0.0285 0.0012

Saturn 76177-08-20 23:17 G 29544370.34 29544370.47 29544370.60 0.0285 0.0166

Earth 76179-10-23 12:44 G 29545163.97 29545164.03 29545164.10 0.2706 0.2319

Moon 76179-10-23 13:41 G 29545164.00 29545164.07 29545164.15 0.2710 0.2205 *

Uranus 76180-11-09 01:41 G 29545546.56 29545546.57 29545546.58 0.0144 0.0143

Uranus 76181-02-05 06:15 G 29545634.69 29545634.76 29545634.85 0.0144 0.0120

Uranus 76181-05-04 11:03 G 29545722.86 29545722.96 29545723.08 0.0144 0.0096

Uranus 76181-07-31 16:05 G 29545811.04 29545811.17 29545811.31 0.0144 0.0071

Uranus 76181-10-27 21:08 G 29545899.24 29545899.38 29545899.52 0.0144 0.0047

Uranus 76182-01-24 01:56 G 29545987.44 29545987.58 29545987.74 0.0144 0.0023

Jupiter 76182-04-21 20:53 G 29546075.23 29546075.37 29546075.52 0.0491 0.0093

Uranus 76182-04-22 07:12 G 29546075.64 29546075.80 29546075.95 0.0144 0.0005

Uranus 76182-07-19 12:00 G 29546163.86 29546164.00 29546164.16 0.0144 0.0028

Uranus 76182-10-15 17:17 G 29546252.08 29546252.22 29546252.36 0.0144 0.0053

Uranus 76183-01-11 22:20 G 29546340.30 29546340.43 29546340.56 0.0144 0.0078

Uranus 76183-04-10 03:22 G 29546428.54 29546428.64 29546428.75 0.0144 0.0104

Uranus 76183-07-07 08:39 G 29546516.80 29546516.86 29546516.93 0.0144 0.0129

Mars 76185-06-02 09:22 G 29547212.79 29547212.89 29547212.99 0.1738 0.0890

Mars 76186-04-17 04:34 G 29547531.61 29547531.69 29547531.77 0.1769 0.1484

Moon 76188-05-01 16:05 G 29548277.08 29548277.17 29548277.26 0.2628 0.1872

Earth 76188-05-01 17:03 G 29548277.13 29548277.21 29548277.30 0.2628 0.2017 *

Jupiter 76188-06-23 06:29 G 29548329.62 29548329.77 29548329.93 0.0537 0.0066

Saturn 76192-03-04 06:29 G 29549679.68 29549679.77 29549679.87 0.0274 0.0209

Saturn 76192-05-31 19:27 G 29549768.18 29549768.31 29549768.45 0.0274 0.0088

Saturn 76192-08-28 08:53 G 29549856.72 29549856.87 29549857.01 0.0274 0.0038

Earth 76192-10-25 11:46 G 29549914.87 29549914.99 29549915.12 0.2705 0.0680

Moon 76192-10-25 12:58 G 29549914.91 29549915.04 29549915.16 0.2706 0.0632 *

Saturn 76192-11-24 22:20 G 29549945.31 29549945.43 29549945.55 0.0275 0.0165

Jupiter 76194-02-08 00:00 G 29550385.36 29550385.50 29550385.65 0.0492 0.0070

Mars 76194-10-23 18:44 G 29550643.23 29550643.28 29550643.34 0.1732 0.1507

Earth 76195-04-25 06:00 G 29550826.67 29550826.75 29550826.84 0.2627 0.1891

Moon 76195-04-25 06:44 G 29550826.70 29550826.78 29550826.87 0.2623 0.1877 *

Mars 76195-09-07 05:32 G 29550961.58 29550961.73 29550961.88 0.1776 0.0480

Mars 76196-09-28 06:29 G 29551348.67 29551348.77 29551348.86 0.1758 0.1169

Jupiter 76200-04-12 05:03 G 29552639.56 29552639.71 29552639.86 0.0536 0.0190

Mars 76205-01-28 06:00 G 29554391.60 29554391.75 29554391.90 0.1783 0.0571

Earth 76205-10-29 10:34 G 29554665.82 29554665.94 29554666.06 0.2705 0.0910

Moon 76205-10-29 11:17 G 29554665.85 29554665.97 29554666.09 0.2699 0.1071 *

Jupiter 76205-11-28 03:22 G 29554695.52 29554695.64 29554695.77 0.0492 0.0227

Mars 76206-02-19 15:08 G 29554779.01 29554779.13 29554779.25 0.1751 0.0484

Jupiter 76206-02-25 13:27 G 29554785.00 29554785.06 29554785.14 0.0490 0.0429

Saturn 76206-07-15 13:56 G 29554924.95 29554925.08 29554925.21 0.0286 0.0173

Saturn 76206-10-12 08:24 G 29555013.68 29555013.85 29555014.01 0.0285 0.0014

Saturn 76207-01-09 02:10 G 29555102.46 29555102.59 29555102.73 0.0285 0.0144

Moon 76208-04-28 03:08 G 29555577.51 29555577.63 29555577.76 0.2621 0.0475

Earth 76208-04-28 03:22 G 29555577.51 29555577.64 29555577.76 0.2627 0.0546 *

Venus 76210-02-25 17:32 G 29556246.11 29556246.23 29556246.36 0.3714 0.0975

Jupiter 76212-01-30 04:20 G 29556949.59 29556949.68 29556949.78 0.0535 0.0428

Jupiter 76212-04-29 03:36 G 29557039.59 29557039.65 29557039.70 0.0538 0.0498

Mars 76214-06-20 06:00 G 29557821.70 29557821.75 29557821.81 0.1790 0.1655

Mars 76215-07-13 00:00 G 29558209.38 29558209.50 29558209.63 0.1744 0.0191

Neptune 76215-12-08 09:51 G 29558357.86 29558357.91 29558357.97 0.0090 0.0084

Neptune 76216-03-05 12:15 G 29558445.93 29558446.01 29558446.11 0.0090 0.0075

Neptune 76216-06-01 14:24 G 29558534.01 29558534.10 29558534.23 0.0090 0.0066

Neptune 76216-08-28 17:17 G 29558622.09 29558622.22 29558622.35 0.0090 0.0056

Neptune 76216-11-24 19:27 G 29558710.18 29558710.31 29558710.46 0.0090 0.0047

Neptune 76217-02-20 21:51 G 29558798.27 29558798.41 29558798.57 0.0090 0.0038

Venus 76217-03-24 00:44 G 29558829.50 29558829.53 29558829.57 0.3656 0.3455

Neptune 76217-05-20 00:15 G 29558886.36 29558886.51 29558886.67 0.0090 0.0029

Neptune 76217-08-16 02:39 G 29558974.46 29558974.61 29558974.77 0.0090 0.0020

Jupiter 76217-09-16 06:58 G 29559005.70 29559005.79 29559005.88 0.0493 0.0383

Neptune 76217-11-12 05:03 G 29559062.55 29559062.71 29559062.87 0.0090 0.0010

Jupiter 76217-12-14 16:34 G 29559095.07 29559095.19 29559095.32 0.0490 0.0267

Neptune 76218-02-08 07:27 G 29559150.65 29559150.81 29559150.97 0.0090 0.0001

Neptune 76218-05-07 09:51 G 29559238.75 29559238.91 29559239.07 0.0090 0.0008

Neptune 76218-08-03 12:00 G 29559326.84 29559327.00 29559327.16 0.0090 0.0017

Neptune 76218-10-30 14:10 G 29559414.94 29559415.09 29559415.25 0.0090 0.0026

Moon 76218-11-01 08:53 G 29559416.81 29559416.87 29559416.93 0.2698 0.2366

Earth 76218-11-01 08:53 G 29559416.82 29559416.87 29559416.92 0.2704 0.2436 *

Neptune 76219-01-26 16:34 G 29559503.05 29559503.19 29559503.34 0.0090 0.0035

Neptune 76219-04-24 18:44 G 29559591.15 29559591.28 29559591.43 0.0090 0.0044

Neptune 76219-07-21 20:53 G 29559679.25 29559679.37 29559679.51 0.0090 0.0053

Neptune 76219-10-17 23:03 G 29559767.36 29559767.46 29559767.59 0.0090 0.0062

Neptune 76220-01-14 01:27 G 29559855.47 29559855.56 29559855.67 0.0090 0.0070

Neptune 76220-04-11 03:36 G 29559943.59 29559943.65 29559943.74 0.0090 0.0079

Neptune 76220-07-08 05:46 G 29560031.72 29560031.74 29560031.79 0.0090 0.0088

Moon 76221-05-01 00:00 G 29560328.38 29560328.50 29560328.63 0.2623 0.0722

Earth 76221-05-01 00:44 G 29560328.41 29560328.53 29560328.65 0.2628 0.0853 *

Saturn 76221-07-23 08:39 G 29560411.80 29560411.86 29560411.93 0.0273 0.0240

Saturn 76221-10-19 21:36 G 29560500.27 29560500.40 29560500.53 0.0274 0.0120

Saturn 76222-01-16 10:48 G 29560588.80 29560588.95 29560589.09 0.0274 0.0005

Saturn 76222-04-15 00:00 G 29560677.38 29560677.50 29560677.64 0.0275 0.0131

Saturn 76222-07-12 13:41 G 29560766.03 29560766.07 29560766.12 0.0275 0.0260

Venus 76222-10-07 18:58 G 29560853.18 29560853.29 29560853.40 0.3657 0.0353

Uranus 76223-08-22 21:51 G 29561172.37 29561172.41 29561172.47 0.0134 0.0127

Uranus 76223-11-19 02:53 G 29561260.53 29561260.62 29561260.73 0.0134 0.0105

Uranus 76224-02-15 07:56 G 29561348.71 29561348.83 29561348.96 0.0134 0.0083

Jupiter 76224-02-16 03:51 G 29561349.53 29561349.66 29561349.79 0.0538 0.0278

Uranus 76224-05-13 12:58 G 29561436.90 29561437.04 29561437.19 0.0134 0.0061

Uranus 76224-08-09 18:00 G 29561525.09 29561525.25 29561525.40 0.0134 0.0040

Uranus 76224-11-05 22:48 G 29561613.29 29561613.45 29561613.61 0.0134 0.0018

Mars 76224-12-02 09:22 G 29561639.78 29561639.89 29561639.99 0.1738 0.0819

Uranus 76225-02-02 03:51 G 29561701.50 29561701.66 29561701.82 0.0134 0.0005

Uranus 76225-05-01 08:39 G 29561789.70 29561789.86 29561790.02 0.0134 0.0025

Uranus 76225-07-28 13:12 G 29561877.91 29561878.05 29561878.21 0.0135 0.0046

Mars 76225-10-17 05:17 G 29561958.66 29561958.72 29561958.78 0.1769 0.1602

Uranus 76225-10-24 18:00 G 29561966.12 29561966.25 29561966.39 0.0135 0.0067

Earth 76225-10-24 18:29 G 29561966.18 29561966.27 29561966.35 0.2706 0.2006 *

Moon 76225-10-24 19:27 G 29561966.22 29561966.31 29561966.40 0.2709 0.1901 *

Uranus 76226-01-20 22:48 G 29562054.33 29562054.45 29562054.57 0.0135 0.0088

Uranus 76226-04-19 03:22 G 29562142.56 29562142.64 29562142.74 0.0135 0.0109

Uranus 76226-07-16 07:56 G 29562230.80 29562230.83 29562230.88 0.0135 0.0129

Venus 76228-04-22 13:27 G 29562876.99 29562877.06 29562877.13 0.3658 0.2876

Jupiter 76229-10-02 19:41 G 29563405.18 29563405.32 29563405.47 0.0491 0.0105

Mars 76234-04-24 18:44 G 29565070.22 29565070.28 29565070.35 0.1732 0.1427

Moon 76234-05-03 21:22 G 29565079.33 29565079.39 29565079.46 0.2628 0.2228

Earth 76234-05-03 22:34 G 29565079.38 29565079.44 29565079.50 0.2629 0.2295 *

Mars 76235-03-09 06:15 G 29565388.61 29565388.76 29565388.90 0.1776 0.0601

Saturn 76235-12-02 12:44 G 29565656.93 29565657.03 29565657.12 0.0285 0.0231

Jupiter 76235-12-05 04:20 G 29565659.53 29565659.68 29565659.84 0.0537 0.0062

Saturn 76236-02-29 07:12 G 29565745.64 29565745.80 29565745.96 0.0285 0.0069

Mars 76236-03-30 06:29 G 29565775.68 29565775.77 29565775.85 0.1758 0.1248

Saturn 76236-05-28 01:27 G 29565834.40 29565834.56 29565834.71 0.0285 0.0089

Saturn 76236-08-24 18:58 G 29565923.21 29565923.29 29565923.38 0.0284 0.0242

Earth 76238-10-27 17:17 G 29566717.09 29566717.22 29566717.35 0.2705 0.0377

Moon 76238-10-27 18:15 G 29566717.14 29566717.26 29566717.39 0.2704 0.0236 *

Earth 76241-04-26 11:17 G 29567628.87 29567628.97 29567629.07 0.2627 0.1638

Moon 76241-04-26 11:46 G 29567628.89 29567628.99 29567629.10 0.2622 0.1531 *

Jupiter 76241-07-21 22:20 G 29567715.29 29567715.43 29567715.58 0.0491 0.0067

Mars 76244-07-29 06:44 G 29568818.63 29568818.78 29568818.93 0.1783 0.0444

Mars 76245-08-20 15:08 G 29569206.02 29569206.13 29569206.25 0.1751 0.0565

Jupiter 76247-09-23 04:05 G 29569969.52 29569969.67 29569969.82 0.0536 0.0169

Saturn 76250-12-10 10:48 G 29571143.95 29571143.95 29571143.95 0.0274 0.0273

Saturn 76251-03-08 23:32 G 29571232.37 29571232.48 29571232.60 0.0274 0.0154

Saturn 76251-06-05 12:44 G 29571320.88 29571321.03 29571321.17 0.0274 0.0031

Saturn 76251-09-02 01:56 G 29571409.45 29571409.58 29571409.72 0.0275 0.0096

Earth 76251-10-30 16:05 G 29571468.05 29571468.17 29571468.28 0.2705 0.1208

Moon 76251-10-30 16:48 G 29571468.08 29571468.20 29571468.31 0.2699 0.1199 *

Saturn 76251-11-29 15:36 G 29571498.07 29571498.15 29571498.24 0.0275 0.0224

Jupiter 76253-05-10 01:27 G 29572025.44 29572025.56 29572025.69 0.0492 0.0229

Jupiter 76253-08-07 11:32 G 29572114.91 29572114.98 29572115.06 0.0490 0.0427

Mars 76253-12-19 06:29 G 29572248.69 29572248.77 29572248.85 0.1790 0.1541

Moon 76254-04-29 08:24 G 29572379.73 29572379.85 29572379.98 0.2621 0.0362

Earth 76254-04-29 08:39 G 29572379.73 29572379.86 29572379.98 0.2628 0.0277 *

Mars 76255-01-11 00:15 G 29572636.38 29572636.51 29572636.63 0.1745 0.0121

Jupiter 76259-07-12 02:24 G 29574279.51 29574279.60 29574279.70 0.0535 0.0426

Jupiter 76259-10-10 01:41 G 29574369.51 29574369.57 29574369.62 0.0538 0.0500

Venus 76261-03-18 18:00 G 29574895.15 29574895.25 29574895.36 0.3715 0.2033

Mars 76264-06-02 09:22 G 29576066.78 29576066.89 29576067.00 0.1738 0.0737

Uranus 76264-11-30 09:08 G 29576247.84 29576247.88 29576247.93 0.0144 0.0135

Jupiter 76265-02-26 05:03 G 29576335.62 29576335.71 29576335.80 0.0493 0.0383

Uranus 76265-02-26 13:56 G 29576335.99 29576336.08 29576336.18 0.0144 0.0111

Mars 76265-04-17 05:32 G 29576385.70 29576385.73 29576385.77 0.1769 0.1704

Saturn 76265-04-20 15:08 G 29576389.06 29576389.13 29576389.20 0.0286 0.0257

Uranus 76265-05-25 18:44 G 29576424.17 29576424.28 29576424.41 0.0144 0.0087

Jupiter 76265-05-26 14:53 G 29576425.00 29576425.12 29576425.24 0.0491 0.0267

Saturn 76265-07-18 09:51 G 29576477.76 29576477.91 29576478.07 0.0286 0.0094

Uranus 76265-08-21 23:46 G 29576512.36 29576512.49 29576512.63 0.0144 0.0063

Saturn 76265-10-15 04:05 G 29576566.51 29576566.67 29576566.83 0.0285 0.0065

Uranus 76265-11-18 04:34 G 29576600.55 29576600.69 29576600.84 0.0144 0.0039

Saturn 76266-01-11 21:51 G 29576655.31 29576655.41 29576655.51 0.0285 0.0219

Uranus 76266-02-14 09:36 G 29576688.75 29576688.90 29576689.05 0.0144 0.0014

Uranus 76266-05-13 14:39 G 29576776.96 29576777.11 29576777.26 0.0144 0.0011

Uranus 76266-08-09 19:41 G 29576865.17 29576865.32 29576865.47 0.0144 0.0036

Venus 76266-10-02 16:48 G 29576919.11 29576919.20 29576919.29 0.3713 0.2596

Uranus 76266-11-06 00:44 G 29576953.39 29576953.53 29576953.67 0.0144 0.0061

Uranus 76267-02-02 05:46 G 29577041.62 29577041.74 29577041.87 0.0144 0.0087

Uranus 76267-05-01 10:48 G 29577129.87 29577129.95 29577130.06 0.0144 0.0113

Moon 76267-05-02 05:17 G 29577130.60 29577130.72 29577130.84 0.2624 0.1116

Earth 76267-05-02 06:00 G 29577130.64 29577130.75 29577130.87 0.2628 0.1131 *

Uranus 76267-07-28 16:05 G 29577218.14 29577218.17 29577218.22 0.0143 0.0138

Jupiter 76271-07-29 01:27 G 29578679.43 29578679.56 29578679.69 0.0537 0.0270

Earth 76271-10-26 00:00 G 29578768.40 29578768.50 29578768.60 0.2706 0.1695

Moon 76271-10-26 00:58 G 29578768.43 29578768.54 29578768.64 0.2709 0.1609 *

Mars 76273-10-23 18:44 G 29579497.21 29579497.28 29579497.35 0.1732 0.1357

Venus 76273-10-28 22:48 G 29579502.36 29579502.45 29579502.54 0.3656 0.2312

Moon 76274-04-24 20:24 G 29579680.35 29579680.35 29579680.36 0.2625 0.2613

Mars 76274-09-07 06:44 G 29579815.64 29579815.78 29579815.92 0.1776 0.0721

Mars 76275-09-29 06:29 G 29580202.69 29580202.77 29580202.85 0.1757 0.1323

Jupiter 76277-03-14 18:00 G 29580735.11 29580735.25 29580735.39 0.0491 0.0107

Venus 76279-05-14 17:03 G 29581526.10 29581526.21 29581526.32 0.3657 0.0831

Moon 76280-05-04 02:53 G 29581881.57 29581881.62 29581881.67 0.2628 0.2408

Earth 76280-05-04 03:51 G 29581881.64 29581881.66 29581881.68 0.2629 0.2581 *

Saturn 76280-07-26 01:56 G 29581964.47 29581964.58 29581964.68 0.0274 0.0185

Saturn 76280-10-22 14:53 G 29582052.98 29582053.12 29582053.26 0.0274 0.0063

Saturn 76281-01-19 04:05 G 29582141.53 29582141.67 29582141.81 0.0274 0.0061

Saturn 76281-04-17 17:32 G 29582230.13 29582230.23 29582230.34 0.0275 0.0189

Jupiter 76283-05-17 01:27 G 29582989.41 29582989.56 29582989.72 0.0537 0.0046

Mars 76284-01-28 07:12 G 29583245.65 29583245.80 29583245.96 0.1783 0.0323

Earth 76284-10-27 22:48 G 29583519.32 29583519.45 29583519.58 0.2705 0.0075

Moon 76284-10-27 23:46 G 29583519.36 29583519.49 29583519.62 0.2702 0.0060 *

Mars 76285-02-18 15:08 G 29583633.01 29583633.13 29583633.24 0.1751 0.0635

Earth 76287-04-27 16:34 G 29584431.08 29584431.19 29584431.30 0.2627 0.1374

Moon 76287-04-27 17:03 G 29584431.10 29584431.21 29584431.32 0.2621 0.1349 *

Jupiter 76288-12-31 21:22 G 29585045.24 29585045.39 29585045.53 0.0491 0.0055

Mars 76293-06-19 07:12 G 29586675.71 29586675.80 29586675.89 0.1791 0.1414

Mars 76294-07-12 00:15 G 29587063.39 29587063.51 29587063.63 0.1745 0.0019

Saturn 76294-12-05 08:39 G 29587209.72 29587209.86 29587210.00 0.0285 0.0151

Saturn 76295-03-04 03:08 G 29587298.47 29587298.63 29587298.79 0.0285 0.0009

Jupiter 76295-03-05 01:56 G 29587299.43 29587299.58 29587299.73 0.0536 0.0173

Saturn 76295-05-31 20:53 G 29587387.25 29587387.37 29587387.51 0.0284 0.0164

Earth 76297-10-30 21:22 G 29588270.29 29588270.39 29588270.50 0.2704 0.1499

Moon 76297-10-30 22:05 G 29588270.31 29588270.42 29588270.52 0.2699 0.1619 *

Neptune 76298-05-24 12:58 G 29588476.00 29588476.04 29588476.11 0.0088 0.0082

Neptune 76298-08-20 14:53 G 29588564.06 29588564.12 29588564.22 0.0088 0.0074

Neptune 76298-11-16 16:48 G 29588652.11 29588652.20 29588652.31 0.0088 0.0066

Neptune 76299-02-12 18:58 G 29588740.18 29588740.29 29588740.41 0.0088 0.0058

Neptune 76299-05-11 20:53 G 29588828.25 29588828.37 29588828.50 0.0088 0.0050

Neptune 76299-08-07 22:48 G 29588916.32 29588916.45 29588916.58 0.0088 0.0042

Neptune 76299-11-04 00:44 G 29589004.39 29589004.53 29589004.67 0.0088 0.0034

Neptune 76300-01-31 02:39 G 29589092.46 29589092.61 29589092.76 0.0088 0.0026

Neptune 76300-04-29 04:34 G 29589180.54 29589180.69 29589180.84 0.0088 0.0018

Moon 76300-04-30 13:41 G 29589181.94 29589182.07 29589182.20 0.2621 0.0028

Earth 76300-04-30 13:56 G 29589181.95 29589182.08 29589182.21 0.2627 0.0040 *

Neptune 76300-07-26 06:29 G 29589268.62 29589268.77 29589268.92 0.0088 0.0010

Jupiter 76300-10-21 00:00 G 29589355.37 29589355.50 29589355.63 0.0492 0.0221

Neptune 76300-10-22 08:24 G 29589356.70 29589356.85 29589357.01 0.0088 0.0002

Neptune 76301-01-18 10:20 G 29589444.78 29589444.93 29589445.09 0.0088 0.0006

Jupiter 76301-01-18 09:51 G 29589444.85 29589444.91 29589444.99 0.0490 0.0433 *

Neptune 76301-04-16 12:15 G 29589532.86 29589533.01 29589533.17 0.0088 0.0015

Neptune 76301-07-13 14:10 G 29589620.95 29589621.09 29589621.25 0.0088 0.0023

Neptune 76301-10-09 16:20 G 29589709.03 29589709.18 29589709.32 0.0088 0.0031

Neptune 76302-01-05 18:15 G 29589797.12 29589797.26 29589797.40 0.0088 0.0039

Neptune 76302-04-03 19:56 G 29589885.22 29589885.33 29589885.48 0.0088 0.0048

Neptune 76302-06-30 22:05 G 29589973.31 29589973.42 29589973.55 0.0088 0.0056

Neptune 76302-09-27 00:15 G 29590061.41 29590061.51 29590061.62 0.0088 0.0064

Neptune 76302-12-24 01:56 G 29590149.51 29590149.58 29590149.69 0.0088 0.0073

Neptune 76303-03-22 04:05 G 29590237.63 29590237.67 29590237.74 0.0088 0.0081

Mars 76303-12-03 09:22 G 29590493.78 29590493.89 29590494.00 0.1738 0.0660

Jupiter 76306-12-23 01:41 G 29591609.47 29591609.57 29591609.67 0.0536 0.0404

Jupiter 76307-03-23 00:44 G 29591699.50 29591699.53 29591699.57 0.0538 0.0524

Uranus 76307-09-13 05:32 G 29591873.66 29591873.73 29591873.81 0.0134 0.0118

Uranus 76307-12-10 10:34 G 29591961.83 29591961.94 29591962.06 0.0134 0.0096

Uranus 76308-03-07 15:36 G 29592050.02 29592050.15 29592050.29 0.0134 0.0074

Uranus 76308-06-03 20:39 G 29592138.21 29592138.36 29592138.51 0.0134 0.0053

Uranus 76308-08-31 01:27 G 29592226.41 29592226.56 29592226.72 0.0134 0.0031

Uranus 76308-11-27 06:29 G 29592314.61 29592314.77 29592314.93 0.0134 0.0010

Uranus 76309-02-23 11:17 G 29592402.81 29592402.97 29592403.13 0.0134 0.0012

Uranus 76309-05-22 16:05 G 29592491.02 29592491.17 29592491.33 0.0134 0.0033

Uranus 76309-08-18 20:53 G 29592579.23 29592579.37 29592579.52 0.0135 0.0054

Uranus 76309-11-15 01:27 G 29592667.44 29592667.56 29592667.70 0.0135 0.0076

Saturn 76309-12-14 03:22 G 29592696.56 29592696.64 29592696.73 0.0274 0.0223

Uranus 76310-02-11 06:00 G 29592755.66 29592755.75 29592755.88 0.0135 0.0097

Saturn 76310-03-12 16:20 G 29592785.05 29592785.18 29592785.32 0.0274 0.0102

Uranus 76310-05-10 11:03 G 29592843.88 29592843.96 29592844.04 0.0135 0.0117

Saturn 76310-06-09 05:32 G 29592873.58 29592873.73 29592873.88 0.0274 0.0023

Saturn 76310-09-05 18:58 G 29592962.17 29592962.29 29592962.41 0.0275 0.0150

Jupiter 76312-08-09 03:22 G 29593665.55 29593665.64 29593665.73 0.0493 0.0380

Jupiter 76312-11-06 12:58 G 29593754.92 29593755.04 29593755.17 0.0491 0.0269

Mars 76313-04-24 18:44 G 29593924.20 29593924.28 29593924.36 0.1732 0.1276

Moon 76313-05-03 10:34 G 29593932.82 29593932.94 29593933.05 0.2625 0.1226

Earth 76313-05-03 11:32 G 29593932.87 29593932.98 29593933.08 0.2628 0.1405 *

Mars 76314-03-09 07:12 G 29594242.67 29594242.80 29594242.94 0.1776 0.0833

Mars 76315-03-31 06:29 G 29594629.70 29594629.77 29594629.84 0.1758 0.1404

Venus 76317-10-24 17:32 G 29595568.10 29595568.23 29595568.36 0.3714 0.0333

Earth 76317-10-27 05:32 G 29595570.62 29595570.73 29595570.84 0.2705 0.1388

Moon 76317-10-27 06:29 G 29595570.65 29595570.77 29595570.88 0.2708 0.1235 *

Jupiter 76319-01-08 23:46 G 29596009.35 29596009.49 29596009.62 0.0537 0.0276

Earth 76320-04-26 00:44 G 29596482.49 29596482.53 29596482.58 0.2627 0.2446

Moon 76320-04-26 01:41 G 29596482.51 29596482.57 29596482.63 0.2624 0.2322 *

Pluto 76323-02-13 04:20 G 29597505.62 29597505.68 29597505.77 0.0064 0.0057

Pluto 76323-05-12 05:17 G 29597593.62 29597593.72 29597593.84 0.0064 0.0046

Mars 76323-07-30 07:41 G 29597672.67 29597672.82 29597672.98 0.1783 0.0211

Pluto 76323-08-08 06:15 G 29597681.63 29597681.76 29597681.90 0.0064 0.0035

Pluto 76323-11-04 06:58 G 29597769.65 29597769.79 29597769.95 0.0064 0.0025

Pluto 76324-01-31 07:56 G 29597857.68 29597857.83 29597857.99 0.0064 0.0014

Saturn 76324-04-24 10:48 G 29597941.83 29597941.95 29597942.08 0.0286 0.0180

Pluto 76324-04-28 08:53 G 29597945.71 29597945.87 29597946.03 0.0064 0.0003

Saturn 76324-07-22 05:17 G 29598030.56 29598030.72 29598030.89 0.0285 0.0021

Pluto 76324-07-25 09:36 G 29598033.74 29598033.90 29598034.06 0.0064 0.0008

Mars 76324-08-20 15:08 G 29598060.02 29598060.13 29598060.24 0.1751 0.0719

Jupiter 76324-08-25 16:20 G 29598065.04 29598065.18 29598065.32 0.0491 0.0110

Saturn 76324-10-18 23:17 G 29598119.34 29598119.47 29598119.62 0.0285 0.0138

Pluto 76324-10-21 10:20 G 29598121.78 29598121.93 29598122.09 0.0064 0.0019

Pluto 76325-01-17 11:17 G 29598209.83 29598209.97 29598210.11 0.0064 0.0030

Pluto 76325-04-15 12:00 G 29598297.88 29598298.00 29598298.13 0.0064 0.0041

Pluto 76325-07-12 12:44 G 29598385.95 29598386.03 29598386.14 0.0064 0.0052

Pluto 76325-10-08 13:27 G 29598474.04 29598474.06 29598474.11 0.0064 0.0063

Venus 76330-06-05 20:53 G 29600175.26 29600175.37 29600175.48 0.3656 0.1156

Jupiter 76330-10-27 23:17 G 29600319.32 29600319.47 29600319.63 0.0536 0.0045

Earth 76330-10-30 04:20 G 29600321.55 29600321.68 29600321.81 0.2705 0.0231

Moon 76330-10-30 05:17 G 29600321.59 29600321.72 29600321.85 0.2702 0.0335 *

Mars 76332-12-19 08:10 G 29601102.73 29601102.84 29601102.94 0.1790 0.1274

Earth 76333-04-28 21:51 G 29601233.30 29601233.41 29601233.52 0.2627 0.1118

Moon 76333-04-28 22:05 G 29601233.31 29601233.42 29601233.54 0.2620 0.1090 *

Mars 76334-01-11 00:15 G 29601490.38 29601490.51 29601490.63 0.1744 0.0085

Venus 76335-12-20 15:22 G 29602199.04 29602199.14 29602199.23 0.3658 0.2028

Jupiter 76336-06-13 19:41 G 29602375.17 29602375.32 29602375.46 0.0492 0.0050

Saturn 76339-05-03 05:46 G 29603428.69 29603428.74 29603428.80 0.0273 0.0252

Saturn 76339-07-30 18:44 G 29603517.15 29603517.28 29603517.40 0.0274 0.0133

Saturn 76339-10-27 07:41 G 29603605.67 29603605.82 29603605.97 0.0274 0.0010

Saturn 76340-01-23 20:53 G 29603694.24 29603694.37 29603694.51 0.0274 0.0116

Saturn 76340-04-21 10:34 G 29603782.88 29603782.94 29603783.01 0.0275 0.0245

Jupiter 76342-08-15 23:17 G 29604629.32 29604629.47 29604629.61 0.0536 0.0186

Mars 76343-06-03 09:22 G 29604920.78 29604920.89 29604921.00 0.1738 0.0585

Earth 76343-11-02 02:53 G 29605072.53 29605072.62 29605072.72 0.2704 0.1793

Moon 76343-11-02 03:08 G 29605072.54 29605072.63 29605072.73 0.2698 0.1787 *

Moon 76346-05-01 18:44 G 29605984.15 29605984.28 29605984.41 0.2622 0.0191

Earth 76346-05-01 19:12 G 29605984.17 29605984.30 29605984.43 0.2628 0.0260 *

Jupiter 76348-04-01 23:03 G 29606685.33 29606685.46 29606685.59 0.0492 0.0206

Jupiter 76348-06-30 08:53 G 29606774.82 29606774.87 29606774.93 0.0490 0.0448

Uranus 76348-12-21 16:48 G 29606949.13 29606949.20 29606949.27 0.0144 0.0126

Uranus 76349-03-19 21:36 G 29607037.30 29607037.40 29607037.51 0.0144 0.0102

Uranus 76349-06-16 02:24 G 29607125.48 29607125.60 29607125.73 0.0144 0.0078

Uranus 76349-09-12 07:12 G 29607213.67 29607213.80 29607213.95 0.0144 0.0054

Uranus 76349-12-09 12:15 G 29607301.86 29607302.01 29607302.16 0.0144 0.0029

Uranus 76350-03-07 17:17 G 29607390.07 29607390.22 29607390.37 0.0144 0.0005

Uranus 76350-06-03 22:20 G 29607478.28 29607478.43 29607478.58 0.0144 0.0020

Uranus 76350-08-31 03:08 G 29607566.49 29607566.63 29607566.78 0.0144 0.0046

Moon 76350-10-25 12:29 G 29607621.98 29607622.02 29607622.05 0.2712 0.2586

Uranus 76350-11-27 08:10 G 29607654.72 29607654.84 29607654.98 0.0144 0.0071

Uranus 76351-02-23 13:27 G 29607742.95 29607743.06 29607743.18 0.0144 0.0096

Uranus 76351-05-22 18:29 G 29607831.20 29607831.27 29607831.36 0.0144 0.0121

Mars 76352-10-23 18:44 G 29608351.20 29608351.28 29608351.37 0.1732 0.1199

Mars 76353-09-07 07:41 G 29608669.70 29608669.82 29608669.96 0.1776 0.0947

Saturn 76353-09-11 09:22 G 29608673.81 29608673.89 29608673.98 0.0285 0.0240

Saturn 76353-12-09 04:05 G 29608762.51 29608762.67 29608762.83 0.0285 0.0077

Saturn 76354-03-07 22:20 G 29608851.28 29608851.43 29608851.59 0.0285 0.0081

Jupiter 76354-06-03 23:32 G 29608939.38 29608939.48 29608939.58 0.0536 0.0407

Saturn 76354-06-04 15:51 G 29608940.08 29608940.16 29608940.26 0.0284 0.0234

Jupiter 76354-09-01 22:48 G 29609029.41 29609029.45 29609029.48 0.0538 0.0523

Mars 76354-09-29 06:29 G 29609056.71 29609056.77 29609056.83 0.1758 0.1482

Moon 76359-05-04 15:51 G 29610735.06 29610735.16 29610735.26 0.2625 0.1649

Earth 76359-05-04 16:48 G 29610735.10 29610735.20 29610735.30 0.2628 0.1681 *

Jupiter 76360-01-20 01:56 G 29610995.49 29610995.58 29610995.68 0.0493 0.0371

Jupiter 76360-04-18 11:32 G 29611084.87 29611084.98 29611085.11 0.0490 0.0279

Mars 76363-01-28 08:24 G 29612099.70 29612099.85 29612100.01 0.1783 0.0093

Earth 76363-10-28 11:03 G 29612372.84 29612372.96 29612373.08 0.2706 0.1081

Moon 76363-10-28 12:00 G 29612372.88 29612373.00 29612373.12 0.2706 0.1035 *

Mars 76364-02-19 15:08 G 29612487.03 29612487.13 29612487.24 0.1751 0.0800

Earth 76366-04-27 06:00 G 29613284.69 29613284.75 29613284.82 0.2627 0.2186

Moon 76366-04-27 06:58 G 29613284.72 29613284.79 29613284.86 0.2623 0.2156 *

Jupiter 76366-06-20 23:03 G 29613339.33 29613339.46 29613339.59 0.0537 0.0301

Venus 76368-11-14 17:46 G 29614217.19 29614217.24 29614217.29 0.3716 0.3397

Saturn 76368-12-16 19:41 G 29614249.21 29614249.32 29614249.43 0.0274 0.0175

Saturn 76369-03-15 08:39 G 29614337.72 29614337.86 29614338.00 0.0274 0.0053

Saturn 76369-06-11 21:51 G 29614426.27 29614426.41 29614426.55 0.0274 0.0073

Saturn 76369-09-08 11:17 G 29614514.88 29614514.97 29614515.08 0.0275 0.0201

Jupiter 76372-02-05 14:53 G 29615394.97 29615395.12 29615395.26 0.0491 0.0116

Mars 76372-06-19 08:24 G 29615529.73 29615529.85 29615529.97 0.1791 0.1168

Mars 76373-07-12 00:15 G 29615917.39 29615917.51 29615917.63 0.1744 0.0137

Venus 76374-05-31 16:48 G 29616241.08 29616241.20 29616241.32 0.3714 0.1330

Earth 76376-10-30 09:51 G 29617123.78 29617123.91 29617124.04 0.2705 0.0533

Moon 76376-10-30 10:48 G 29617123.82 29617123.95 29617124.07 0.2702 0.0652 *

Jupiter 76378-04-08 21:51 G 29617649.26 29617649.41 29617649.57 0.0536 0.0054

Earth 76379-04-30 03:08 G 29618035.51 29618035.63 29618035.75 0.2627 0.0853

Moon 76379-04-30 03:22 G 29618035.52 29618035.64 29618035.76 0.2620 0.0804 *

Neptune 76380-09-04 08:10 G 29618528.78 29618528.84 29618528.92 0.0090 0.0081

Neptune 76380-12-01 10:48 G 29618616.85 29618616.95 29618617.05 0.0090 0.0071

Neptune 76381-02-27 13:12 G 29618704.94 29618705.05 29618705.17 0.0090 0.0062

Neptune 76381-05-26 15:22 G 29618793.02 29618793.14 29618793.29 0.0090 0.0053

Venus 76381-06-27 00:58 G 29618824.48 29618824.54 29618824.60 0.3656 0.3083

Neptune 76381-08-22 17:46 G 29618881.11 29618881.24 29618881.40 0.0090 0.0044

Neptune 76381-11-18 20:24 G 29618969.20 29618969.35 29618969.50 0.0090 0.0034

Neptune 76382-02-14 22:48 G 29619057.30 29619057.45 29619057.61 0.0090 0.0025

Neptune 76382-05-14 01:12 G 29619145.39 29619145.55 29619145.71 0.0090 0.0016

Neptune 76382-08-10 03:36 G 29619233.49 29619233.65 29619233.81 0.0090 0.0007

Neptune 76382-11-06 06:00 G 29619321.59 29619321.75 29619321.91 0.0090 0.0003

Mars 76382-12-02 09:22 G 29619347.77 29619347.89 29619348.01 0.1738 0.0509

Saturn 76383-01-29 10:48 G 29619405.92 29619405.95 29619406.00 0.0286 0.0275

Neptune 76383-02-02 08:10 G 29619409.69 29619409.84 29619410.00 0.0090 0.0012

Saturn 76383-04-28 05:46 G 29619494.59 29619494.74 29619494.90 0.0286 0.0110

Neptune 76383-05-01 10:34 G 29619497.78 29619497.94 29619498.10 0.0090 0.0020

Saturn 76383-07-26 00:15 G 29619583.35 29619583.51 29619583.67 0.0285 0.0050

Neptune 76383-07-28 12:44 G 29619585.89 29619586.03 29619586.19 0.0090 0.0030

Saturn 76383-10-22 18:00 G 29619672.15 29619672.25 29619672.37 0.0285 0.0205

Neptune 76383-10-24 14:53 G 29619673.99 29619674.12 29619674.28 0.0090 0.0039

Jupiter 76383-11-24 18:00 G 29619705.11 29619705.25 29619705.40 0.0492 0.0045

Neptune 76384-01-20 17:17 G 29619762.09 29619762.22 29619762.36 0.0090 0.0047

Neptune 76384-04-17 19:41 G 29619850.20 29619850.32 29619850.45 0.0090 0.0056

Neptune 76384-07-14 21:51 G 29619938.31 29619938.41 29619938.53 0.0090 0.0065

Neptune 76384-10-11 00:00 G 29620026.42 29620026.50 29620026.60 0.0090 0.0074

Neptune 76385-01-07 02:10 G 29620114.54 29620114.59 29620114.66 0.0090 0.0083

Venus 76387-01-10 18:58 G 29620848.18 29620848.29 29620848.41 0.3657 0.0039

Moon 76389-11-02 08:24 G 29621874.77 29621874.85 29621874.93 0.2697 0.2100

Earth 76389-11-02 08:24 G 29621874.77 29621874.85 29621874.93 0.2704 0.2084 *

Jupiter 76390-01-25 21:22 G 29621959.24 29621959.39 29621959.54 0.0536 0.0182

Uranus 76391-07-07 08:10 G 29622486.81 29622486.84 29622486.87 0.0134 0.0132

Uranus 76391-10-03 13:12 G 29622574.96 29622575.05 29622575.14 0.0134 0.0109

Uranus 76391-12-30 18:15 G 29622663.14 29622663.26 29622663.38 0.0134 0.0087

Uranus 76392-03-27 23:17 G 29622751.33 29622751.47 29622751.61 0.0134 0.0066

Mars 76392-04-23 18:44 G 29622778.19 29622778.28 29622778.37 0.1732 0.1128

Moon 76392-05-01 23:46 G 29622786.37 29622786.49 29622786.62 0.2623 0.0477

Earth 76392-05-02 00:29 G 29622786.39 29622786.52 29622786.65 0.2628 0.0528 *

Uranus 76392-06-24 04:05 G 29622839.52 29622839.67 29622839.83 0.0134 0.0044

Venus 76392-07-26 13:27 G 29622872.01 29622872.06 29622872.11 0.3658 0.3223

Uranus 76392-09-20 09:08 G 29622927.72 29622927.88 29622928.04 0.0134 0.0022

Uranus 76392-12-17 13:56 G 29623015.92 29623016.08 29623016.25 0.0134 0.0003

Mars 76393-03-08 08:39 G 29623096.73 29623096.86 29623096.98 0.1776 0.1071

Uranus 76393-03-15 18:58 G 29623104.13 29623104.29 29623104.44 0.0134 0.0021

Uranus 76393-06-11 23:46 G 29623192.33 29623192.49 29623192.64 0.0134 0.0042

Uranus 76393-09-08 04:34 G 29623280.54 29623280.69 29623280.83 0.0135 0.0063

Uranus 76393-12-05 09:08 G 29623368.76 29623368.88 29623369.01 0.0135 0.0084

Uranus 76394-03-03 13:41 G 29623456.98 29623457.07 29623457.18 0.0135 0.0105

Mars 76394-03-30 06:29 G 29623483.72 29623483.77 29623483.83 0.1757 0.1559

Uranus 76394-05-30 18:15 G 29623545.22 29623545.26 29623545.33 0.0135 0.0126

Jupiter 76395-09-12 21:36 G 29624015.26 29624015.40 29624015.53 0.0492 0.0200

Jupiter 76395-12-11 07:27 G 29624104.76 29624104.81 29624104.87 0.0490 0.0456

Earth 76396-10-25 17:17 G 29624424.17 29624424.22 29624424.28 0.2706 0.2428

Moon 76396-10-25 18:00 G 29624424.20 29624424.25 29624424.31 0.2711 0.2440 *

Saturn 76398-05-05 21:51 G 29624981.33 29624981.41 29624981.51 0.0273 0.0206

Saturn 76398-08-02 10:48 G 29625069.82 29625069.95 29625070.09 0.0274 0.0085

Saturn 76398-10-30 00:00 G 29625158.36 29625158.50 29625158.65 0.0274 0.0040

Saturn 76399-01-26 13:27 G 29625246.95 29625247.06 29625247.18 0.0274 0.0166

Mars 76401-09-14 04:20 G 29626208.68 29626208.68 29626208.69 0.1726 0.1720

Jupiter 76401-11-13 20:53 G 29626269.28 29626269.37 29626269.47 0.0535 0.0415

Jupiter 76402-02-11 20:24 G 29626359.30 29626359.35 29626359.39 0.0538 0.0514

Mars 76402-07-29 09:08 G 29626526.72 29626526.88 29626527.03 0.1783 0.0049

Mars 76403-08-20 15:08 G 29626914.02 29626914.13 29626914.24 0.1751 0.0868

Moon 76405-05-04 21:08 G 29627537.29 29627537.38 29627537.48 0.2626 0.1794

Earth 76405-05-04 22:05 G 29627537.34 29627537.42 29627537.51 0.2628 0.1959 *

Jupiter 76407-07-02 00:58 G 29628325.44 29628325.54 29628325.64 0.0493 0.0355

Jupiter 76407-09-29 10:34 G 29628414.83 29628414.94 29628415.06 0.0491 0.0295

Earth 76409-10-28 16:34 G 29629175.06 29629175.19 29629175.31 0.2705 0.0780

Moon 76409-10-28 17:32 G 29629175.10 29629175.23 29629175.36 0.2705 0.0567 *

Mars 76411-12-19 09:08 G 29629956.75 29629956.88 29629957.01 0.1790 0.1038

Earth 76412-04-27 11:17 G 29630086.89 29630086.97 29630087.06 0.2627 0.1934

Moon 76412-04-27 12:00 G 29630086.91 29630087.00 29630087.09 0.2622 0.1791 *

Saturn 76412-09-14 04:20 G 29630226.56 29630226.68 29630226.82 0.0285 0.0170

Pluto 76412-10-20 08:53 G 29630262.79 29630262.87 29630262.97 0.0081 0.0065

Saturn 76412-12-11 23:03 G 29630315.30 29630315.46 29630315.62 0.0285 0.0008

Mars 76413-01-10 00:15 G 29630344.39 29630344.51 29630344.63 0.1745 0.0212

Pluto 76413-01-16 10:34 G 29630350.82 29630350.94 29630351.08 0.0081 0.0044

Saturn 76413-03-10 17:03 G 29630404.07 29630404.21 29630404.35 0.0285 0.0148

Pluto 76413-04-14 12:15 G 29630438.87 29630439.01 29630439.17 0.0081 0.0023

Pluto 76413-07-11 14:10 G 29630526.93 29630527.09 29630527.24 0.0080 0.0002

Pluto 76413-10-07 15:36 G 29630615.00 29630615.15 29630615.30 0.0080 0.0019

Jupiter 76413-11-30 20:53 G 29630669.25 29630669.37 29630669.50 0.0538 0.0302

Pluto 76414-01-03 17:03 G 29630703.09 29630703.21 29630703.36 0.0080 0.0040

Pluto 76414-04-01 18:29 G 29630791.19 29630791.27 29630791.39 0.0080 0.0061

Jupiter 76419-07-18 13:27 G 29632724.92 29632725.06 29632725.20 0.0491 0.0128

Mars 76422-06-02 09:22 G 29633774.77 29633774.89 29633775.01 0.1738 0.0429

Earth 76422-10-31 15:22 G 29633926.01 29633926.14 29633926.26 0.2705 0.0832

Moon 76422-10-31 16:05 G 29633926.05 29633926.17 29633926.29 0.2701 0.0873 *

Moon 76425-04-30 08:39 G 29634837.73 29634837.86 29634837.98 0.2621 0.0607

Earth 76425-04-30 08:24 G 29634837.73 29634837.85 29634837.98 0.2627 0.0588 *

Venus 76425-06-21 17:17 G 29634890.10 29634890.22 29634890.33 0.3715 0.1686

Jupiter 76425-09-18 21:08 G 29634979.23 29634979.38 29634979.54 0.0537 0.0082

Saturn 76427-09-22 22:48 G 29635713.39 29635713.45 29635713.51 0.0273 0.0249

Saturn 76427-12-20 11:32 G 29635801.86 29635801.98 29635802.11 0.0274 0.0130

Saturn 76428-03-18 00:44 G 29635890.38 29635890.53 29635890.67 0.0274 0.0010

Saturn 76428-06-14 13:56 G 29635978.95 29635979.08 29635979.21 0.0274 0.0119

Saturn 76428-09-11 03:22 G 29636067.59 29636067.64 29636067.71 0.0275 0.0248

Venus 76431-01-05 16:05 G 29636914.10 29636914.17 29636914.25 0.3714 0.2966

Jupiter 76431-05-06 16:48 G 29637035.05 29637035.20 29637035.34 0.0492 0.0033

Mars 76431-10-23 18:44 G 29637205.19 29637205.28 29637205.38 0.1732 0.1050

Mars 76432-09-06 08:53 G 29637523.76 29637523.87 29637523.99 0.1776 0.1176

Uranus 76432-10-14 18:58 G 29637562.29 29637562.29 29637562.30 0.0144 0.0144

Uranus 76433-01-10 23:46 G 29637650.41 29637650.49 29637650.57 0.0144 0.0120

Uranus 76433-04-09 04:34 G 29637738.58 29637738.69 29637738.80 0.0144 0.0096

Uranus 76433-07-06 09:22 G 29637826.77 29637826.89 29637827.03 0.0144 0.0072

Mars 76433-09-28 06:29 G 29637910.73 29637910.77 29637910.81 0.1757 0.1638

Uranus 76433-10-02 14:24 G 29637914.96 29637915.10 29637915.24 0.0144 0.0047

Uranus 76433-12-29 19:27 G 29638003.16 29638003.31 29638003.46 0.0144 0.0023

Uranus 76434-03-28 00:15 G 29638091.36 29638091.51 29638091.66 0.0144 0.0003

Uranus 76434-06-24 05:17 G 29638179.57 29638179.72 29638179.87 0.0144 0.0027

Uranus 76434-09-20 10:20 G 29638267.79 29638267.93 29638268.07 0.0144 0.0052

Uranus 76434-12-17 15:22 G 29638356.01 29638356.14 29638356.27 0.0144 0.0077

Uranus 76435-03-15 20:24 G 29638444.25 29638444.35 29638444.46 0.0144 0.0102

Uranus 76435-06-12 01:27 G 29638532.50 29638532.56 29638532.64 0.0144 0.0128

Moon 76435-11-03 13:56 G 29638677.02 29638677.08 29638677.13 0.2697 0.2380

Earth 76435-11-03 13:41 G 29638677.02 29638677.07 29638677.13 0.2704 0.2374 *

Jupiter 76437-07-07 20:10 G 29639289.19 29639289.34 29639289.49 0.0536 0.0167

Venus 76438-01-31 22:48 G 29639497.36 29639497.45 29639497.55 0.3656 0.1965

Moon 76438-05-03 05:17 G 29639588.59 29639588.72 29639588.84 0.2623 0.0748

Earth 76438-05-03 06:00 G 29639588.62 29639588.75 29639588.87 0.2628 0.0811 *

Mars 76441-03-15 04:20 G 29640635.65 29640635.68 29640635.71 0.1726 0.1646

Mars 76442-01-27 09:36 G 29640953.74 29640953.90 29640954.05 0.1783 0.0153

Saturn 76442-02-01 05:17 G 29640958.61 29640958.72 29640958.84 0.0286 0.0209

Saturn 76442-05-01 00:00 G 29641047.34 29641047.50 29641047.67 0.0286 0.0047

Saturn 76442-07-28 18:15 G 29641136.12 29641136.26 29641136.41 0.0286 0.0112

Saturn 76442-10-25 12:00 G 29641224.95 29641225.00 29641225.06 0.0285 0.0265

Earth 76442-10-26 22:48 G 29641226.37 29641226.45 29641226.53 0.2706 0.2117

Moon 76442-10-26 23:46 G 29641226.40 29641226.49 29641226.58 0.2710 0.1950 *

Mars 76443-02-18 15:08 G 29641341.03 29641341.13 29641341.24 0.1751 0.0951

Jupiter 76443-02-22 19:56 G 29641345.20 29641345.33 29641345.47 0.0493 0.0193

Jupiter 76443-05-23 06:00 G 29641434.71 29641434.75 29641434.80 0.0490 0.0465

Venus 76443-08-17 17:03 G 29641521.10 29641521.21 29641521.32 0.3657 0.1182

Jupiter 76449-04-25 19:27 G 29643599.21 29643599.31 29643599.42 0.0535 0.0404

Jupiter 76449-07-24 18:44 G 29643689.25 29643689.28 29643689.31 0.0537 0.0522

Moon 76451-05-06 02:39 G 29644339.54 29644339.61 29644339.68 0.2627 0.2169

Earth 76451-05-06 03:36 G 29644339.58 29644339.65 29644339.72 0.2628 0.2241 *

Mars 76451-06-19 09:51 G 29644383.78 29644383.91 29644384.04 0.1790 0.0906

Mars 76452-07-11 00:15 G 29644771.39 29644771.51 29644771.63 0.1744 0.0287

Jupiter 76454-12-11 23:32 G 29645655.38 29645655.48 29645655.58 0.0493 0.0347

Jupiter 76455-03-11 09:22 G 29645744.77 29645744.89 29645745.00 0.0491 0.0305

Earth 76455-10-29 22:05 G 29645977.29 29645977.42 29645977.54 0.2705 0.0466

Moon 76455-10-29 23:03 G 29645977.34 29645977.46 29645977.59 0.2705 0.0439 *

Saturn 76457-05-08 13:56 G 29646533.97 29646534.08 29646534.20 0.0273 0.0160

Saturn 76457-08-05 02:53 G 29646622.48 29646622.62 29646622.77 0.0274 0.0039

Saturn 76457-11-01 16:05 G 29646711.03 29646711.17 29646711.31 0.0274 0.0086

Saturn 76458-01-29 05:32 G 29646799.64 29646799.73 29646799.83 0.0274 0.0214

Earth 76458-04-28 16:34 G 29646889.10 29646889.19 29646889.29 0.2627 0.1672

Moon 76458-04-28 17:17 G 29646889.12 29646889.22 29646889.31 0.2621 0.1683 *

Jupiter 76461-05-12 18:44 G 29647999.15 29647999.28 29647999.41 0.0537 0.0298

Mars 76461-12-01 09:22 G 29648201.77 29648201.89 29648202.01 0.1738 0.0359

Neptune 76462-11-23 10:34 G 29648558.91 29648558.94 29648558.98 0.0088 0.0085

Neptune 76463-02-19 12:00 G 29648646.95 29648647.00 29648647.09 0.0088 0.0078

Neptune 76463-05-18 13:56 G 29648735.01 29648735.08 29648735.19 0.0088 0.0070

Neptune 76463-08-14 15:51 G 29648823.07 29648823.16 29648823.28 0.0088 0.0062

Neptune 76463-11-10 17:46 G 29648911.13 29648911.24 29648911.37 0.0088 0.0054

Neptune 76464-02-06 19:41 G 29648999.20 29648999.32 29648999.46 0.0088 0.0046

Neptune 76464-05-04 21:51 G 29649087.27 29649087.41 29649087.55 0.0088 0.0038

Neptune 76464-07-31 23:46 G 29649175.34 29649175.49 29649175.63 0.0088 0.0030

Neptune 76464-10-28 01:41 G 29649263.42 29649263.57 29649263.72 0.0088 0.0022

Neptune 76465-01-24 03:36 G 29649351.50 29649351.65 29649351.80 0.0088 0.0014

Neptune 76465-04-22 05:32 G 29649439.57 29649439.73 29649439.88 0.0088 0.0006

Neptune 76465-07-19 07:27 G 29649527.65 29649527.81 29649527.96 0.0088 0.0002

Neptune 76465-10-15 09:22 G 29649615.74 29649615.89 29649616.04 0.0088 0.0010

Neptune 76466-01-11 11:17 G 29649703.82 29649703.97 29649704.12 0.0088 0.0018

Neptune 76466-04-09 13:12 G 29649791.91 29649792.05 29649792.20 0.0088 0.0027

Neptune 76466-07-06 15:08 G 29649879.99 29649880.13 29649880.28 0.0088 0.0035

Neptune 76466-10-02 17:17 G 29649968.08 29649968.22 29649968.35 0.0088 0.0043

Jupiter 76466-12-28 12:44 G 29650054.89 29650055.03 29650055.17 0.0491 0.0146

Neptune 76466-12-29 18:58 G 29650056.18 29650056.29 29650056.43 0.0088 0.0052

Neptune 76467-03-27 21:08 G 29650144.27 29650144.38 29650144.50 0.0088 0.0060

Neptune 76467-06-23 23:17 G 29650232.37 29650232.47 29650232.57 0.0088 0.0068

Neptune 76467-09-20 00:58 G 29650320.48 29650320.54 29650320.63 0.0088 0.0077

Neptune 76467-12-17 03:08 G 29650408.60 29650408.63 29650408.68 0.0088 0.0085

Earth 76468-10-31 20:53 G 29650728.25 29650728.37 29650728.48 0.2705 0.1131

Moon 76468-10-31 21:22 G 29650728.28 29650728.39 29650728.50 0.2699 0.1254 *

Mars 76471-04-23 18:44 G 29651632.18 29651632.28 29651632.38 0.1732 0.0971

Moon 76471-05-01 13:41 G 29651639.94 29651640.07 29651640.20 0.2621 0.0274

Earth 76471-05-01 13:41 G 29651639.95 29651640.07 29651640.20 0.2627 0.0332 *

Saturn 76471-06-21 03:36 G 29651690.61 29651690.65 29651690.71 0.0286 0.0270

Saturn 76471-09-17 22:48 G 29651779.30 29651779.45 29651779.60 0.0285 0.0105

Saturn 76471-12-15 17:03 G 29651868.05 29651868.21 29651868.37 0.0285 0.0055

Mars 76472-03-07 09:36 G 29651950.79 29651950.90 29651951.00 0.1776 0.1292

Saturn 76472-03-13 10:48 G 29651956.85 29651956.95 29651957.07 0.0285 0.0210

Jupiter 76473-02-28 19:12 G 29652309.15 29652309.30 29652309.46 0.0537 0.0083

Mars 76473-03-29 06:29 G 29652337.75 29652337.77 29652337.80 0.1758 0.1718

Uranus 76475-07-27 15:22 G 29653188.09 29653188.14 29653188.21 0.0134 0.0124

Uranus 76475-10-23 20:24 G 29653276.26 29653276.35 29653276.47 0.0134 0.0102

Uranus 76476-01-20 01:27 G 29653364.44 29653364.56 29653364.70 0.0134 0.0080

Uranus 76476-04-17 06:44 G 29653452.63 29653452.78 29653452.93 0.0134 0.0057

Uranus 76476-07-14 11:46 G 29653540.83 29653540.99 29653541.14 0.0134 0.0036

Uranus 76476-10-10 16:34 G 29653629.03 29653629.19 29653629.35 0.0134 0.0014

Uranus 76477-01-06 21:22 G 29653717.23 29653717.39 29653717.56 0.0134 0.0008

Uranus 76477-04-05 02:24 G 29653805.44 29653805.60 29653805.75 0.0134 0.0029

Uranus 76477-07-02 07:12 G 29653893.65 29653893.80 29653893.94 0.0135 0.0050

Uranus 76477-09-28 11:46 G 29653981.86 29653981.99 29653982.13 0.0135 0.0071

Uranus 76477-12-25 16:34 G 29654070.08 29654070.19 29654070.31 0.0135 0.0092

Uranus 76478-03-23 21:08 G 29654158.30 29654158.38 29654158.47 0.0135 0.0113

Uranus 76478-06-20 01:56 G 29654246.56 29654246.58 29654246.60 0.0135 0.0133

Jupiter 76478-10-16 15:36 G 29654365.01 29654365.15 29654365.30 0.0492 0.0020

Mars 76480-09-13 04:20 G 29655062.63 29655062.68 29655062.73 0.1725 0.1571

Mars 76481-07-28 10:20 G 29655380.77 29655380.93 29655381.08 0.1783 0.0278

Moon 76481-11-03 19:12 G 29655479.27 29655479.30 29655479.32 0.2697 0.2622

Earth 76481-11-03 19:12 G 29655479.28 29655479.30 29655479.32 0.2704 0.2659 *

Venus 76482-01-26 16:34 G 29655563.07 29655563.19 29655563.32 0.3715 0.0112

Mars 76482-08-19 15:22 G 29655768.04 29655768.14 29655768.23 0.1751 0.1031

Moon 76484-05-03 10:34 G 29656390.82 29656390.94 29656391.06 0.2623 0.0970

Earth 76484-05-03 11:17 G 29656390.85 29656390.97 29656391.09 0.2628 0.1080 *

Jupiter 76484-12-17 19:27 G 29656619.16 29656619.31 29656619.46 0.0536 0.0140

Saturn 76486-09-25 14:10 G 29657266.01 29657266.09 29657266.19 0.0273 0.0209

Saturn 76486-12-23 03:08 G 29657354.50 29657354.63 29657354.77 0.0274 0.0088

Saturn 76487-03-21 16:20 G 29657443.03 29657443.18 29657443.32 0.0274 0.0036

Saturn 76487-06-18 05:32 G 29657531.62 29657531.73 29657531.85 0.0274 0.0163

Earth 76488-10-27 04:34 G 29658028.59 29658028.69 29658028.78 0.2706 0.1799

Moon 76488-10-27 05:32 G 29658028.63 29658028.73 29658028.83 0.2708 0.1736 *

Jupiter 76490-08-04 18:58 G 29658675.16 29658675.29 29658675.43 0.0492 0.0178

Jupiter 76490-11-02 05:03 G 29658764.68 29658764.71 29658764.74 0.0490 0.0478

Mars 76490-12-18 10:20 G 29658810.79 29658810.93 29658811.07 0.1790 0.0799

Mars 76492-01-10 00:15 G 29659198.39 29659198.51 29659198.63 0.1744 0.0363

Venus 76494-09-07 20:53 G 29660170.26 29660170.37 29660170.48 0.3656 0.0813

Jupiter 76496-10-05 18:29 G 29660929.16 29660929.27 29660929.38 0.0535 0.0385

Moon 76497-05-06 07:56 G 29661141.79 29661141.83 29661141.88 0.2629 0.2422

Earth 76497-05-06 09:08 G 29661141.84 29661141.88 29661141.91 0.2628 0.2529 *

Venus 76500-03-24 15:08 G 29662194.05 29662194.13 29662194.22 0.3657 0.2369

Saturn 76501-02-04 23:17 G 29662511.33 29662511.47 29662511.61 0.0286 0.0149

Saturn 76501-05-04 17:46 G 29662600.08 29662600.24 29662600.41 0.0286 0.0015

Mars 76501-06-02 09:22 G 29662628.77 29662628.89 29662629.01 0.1738 0.0279

Saturn 76501-08-01 12:00 G 29662688.87 29662689.00 29662689.13 0.0286 0.0170

Earth 76501-10-31 03:36 G 29662779.52 29662779.65 29662779.78 0.2705 0.0169

Moon 76501-10-31 04:34 G 29662779.56 29662779.69 29662779.82 0.2704 0.0048 *

Jupiter 76502-05-24 22:20 G 29662985.33 29662985.43 29662985.53 0.0493 0.0337

Jupiter 76502-08-22 07:56 G 29663074.72 29663074.83 29663074.95 0.0491 0.0316

Earth 76504-04-29 21:51 G 29663691.31 29663691.41 29663691.52 0.2627 0.1418

Moon 76504-04-29 22:20 G 29663691.32 29663691.43 29663691.54 0.2621 0.1283 *

Jupiter 76508-10-23 17:32 G 29665329.11 29665329.23 29665329.36 0.0537 0.0313

Mars 76510-10-23 18:44 G 29666059.17 29666059.28 29666059.38 0.1731 0.0906

Mars 76511-09-07 10:05 G 29666377.83 29666377.92 29666378.02 0.1776 0.1410

Jupiter 76514-03-13 01:56 G 29667295.57 29667295.58 29667295.59 0.0494 0.0491

Jupiter 76514-06-10 11:17 G 29667384.83 29667384.97 29667385.11 0.0491 0.0156

Earth 76514-11-03 02:10 G 29667530.49 29667530.59 29667530.70 0.2705 0.1429

Moon 76514-11-03 02:39 G 29667530.50 29667530.61 29667530.72 0.2698 0.1392 *

Saturn 76516-02-13 16:48 G 29667998.14 29667998.20 29667998.27 0.0273 0.0237

Saturn 76516-05-12 05:32 G 29668086.60 29668086.73 29668086.87 0.0273 0.0118

Saturn 76516-08-08 18:44 G 29668175.13 29668175.28 29668175.42 0.0273 0.0008

Uranus 76516-11-05 01:56 G 29668263.55 29668263.58 29668263.64 0.0144 0.0137

Saturn 76516-11-05 07:56 G 29668263.70 29668263.83 29668263.96 0.0274 0.0130

Uranus 76517-02-01 06:58 G 29668351.70 29668351.79 29668351.88 0.0144 0.0113

Saturn 76517-02-01 21:22 G 29668352.35 29668352.39 29668352.44 0.0274 0.0258

Uranus 76517-04-30 11:46 G 29668439.88 29668439.99 29668440.11 0.0144 0.0089

Moon 76517-05-02 18:44 G 29668442.15 29668442.28 29668442.41 0.2621 0.0162

Earth 76517-05-02 18:58 G 29668442.17 29668442.29 29668442.42 0.2627 0.0107 *

Uranus 76517-07-27 16:34 G 29668528.06 29668528.19 29668528.33 0.0144 0.0065

Uranus 76517-10-23 21:22 G 29668616.25 29668616.39 29668616.54 0.0144 0.0041

Uranus 76518-01-20 02:24 G 29668704.45 29668704.60 29668704.75 0.0144 0.0016

Uranus 76518-04-18 07:27 G 29668792.66 29668792.81 29668792.96 0.0144 0.0009

Uranus 76518-07-15 12:29 G 29668880.87 29668881.02 29668881.17 0.0144 0.0034

Uranus 76518-10-11 17:17 G 29668969.09 29668969.22 29668969.37 0.0144 0.0059

Uranus 76519-01-07 22:34 G 29669057.32 29669057.44 29669057.56 0.0144 0.0084

Uranus 76519-04-06 03:22 G 29669145.55 29669145.64 29669145.75 0.0144 0.0110

Uranus 76519-07-03 08:39 G 29669233.82 29669233.86 29669233.92 0.0144 0.0135

Mars 76520-03-15 04:20 G 29669489.62 29669489.68 29669489.74 0.1726 0.1495

Jupiter 76520-08-11 17:17 G 29669639.07 29669639.22 29669639.38 0.0536 0.0084

Mars 76521-01-27 10:48 G 29669807.80 29669807.95 29669808.10 0.1783 0.0393

Mars 76522-02-18 15:08 G 29670195.04 29670195.13 29670195.23 0.1751 0.1099

Jupiter 76526-03-29 14:39 G 29671694.97 29671695.11 29671695.26 0.0492 0.0012

Moon 76530-05-05 15:51 G 29673193.05 29673193.16 29673193.27 0.2624 0.1319

Earth 76530-05-05 16:34 G 29673193.08 29673193.19 29673193.30 0.2628 0.1359 *

Mars 76530-06-19 10:48 G 29673237.81 29673237.95 29673238.10 0.1791 0.0675

Saturn 76530-06-24 21:36 G 29673243.29 29673243.40 29673243.52 0.0286 0.0209

Saturn 76530-09-21 16:34 G 29673332.03 29673332.19 29673332.35 0.0286 0.0046

Saturn 76530-12-19 10:48 G 29673420.80 29673420.95 29673421.10 0.0285 0.0112

Saturn 76531-03-18 04:20 G 29673509.64 29673509.68 29673509.75 0.0285 0.0266

Mars 76531-07-12 00:15 G 29673625.39 29673625.51 29673625.63 0.1745 0.0444

Jupiter 76532-05-30 17:46 G 29673949.08 29673949.24 29673949.39 0.0536 0.0137

Venus 76533-02-17 16:48 G 29674212.13 29674212.20 29674212.27 0.3716 0.3093

Earth 76534-10-29 10:05 G 29674830.81 29674830.92 29674831.03 0.2706 0.1490

Moon 76534-10-29 11:03 G 29674830.85 29674830.96 29674831.08 0.2707 0.1338 *

Earth 76537-04-28 06:15 G 29675742.72 29675742.76 29675742.80 0.2626 0.2478

Moon 76537-04-28 06:58 G 29675742.74 29675742.79 29675742.85 0.2623 0.2358 *

Jupiter 76538-01-15 18:00 G 29676005.11 29676005.25 29676005.38 0.0492 0.0163

Venus 76538-09-03 15:51 G 29676236.05 29676236.16 29676236.28 0.3715 0.1664

Mars 76539-11-09 10:20 G 29676667.92 29676667.93 29676667.94 0.1798 0.1789

Mars 76540-12-01 09:22 G 29677055.77 29677055.89 29677056.01 0.1738 0.0205

Jupiter 76544-03-18 17:46 G 29678259.12 29678259.24 29678259.36 0.0535 0.0359

Neptune 76545-03-06 04:20 G 29678611.65 29678611.68 29678611.74 0.0090 0.0086

Neptune 76545-06-02 06:44 G 29678699.71 29678699.78 29678699.88 0.0090 0.0077

Neptune 76545-08-29 09:22 G 29678787.79 29678787.89 29678788.00 0.0090 0.0067

Saturn 76545-09-29 05:46 G 29678818.63 29678818.74 29678818.86 0.0273 0.0167

Venus 76545-09-30 00:58 G 29678819.47 29678819.54 29678819.61 0.3655 0.2736

Neptune 76545-11-25 11:46 G 29678875.87 29678875.99 29678876.12 0.0090 0.0058

Saturn 76545-12-26 18:44 G 29678907.14 29678907.28 29678907.42 0.0274 0.0046

Neptune 76546-02-21 14:10 G 29678963.96 29678964.09 29678964.24 0.0090 0.0048

Saturn 76546-03-25 07:56 G 29678995.69 29678995.83 29678995.97 0.0274 0.0078

Neptune 76546-05-20 16:48 G 29679052.05 29679052.20 29679052.35 0.0090 0.0039

Saturn 76546-06-21 21:22 G 29679084.29 29679084.39 29679084.48 0.0274 0.0205

Neptune 76546-08-16 19:12 G 29679140.15 29679140.30 29679140.45 0.0090 0.0030

Neptune 76546-11-12 21:36 G 29679228.24 29679228.40 29679228.56 0.0090 0.0021

Neptune 76547-02-09 00:00 G 29679316.34 29679316.50 29679316.66 0.0090 0.0011

Neptune 76547-05-08 02:24 G 29679404.44 29679404.60 29679404.76 0.0090 0.0003

Neptune 76547-08-04 04:48 G 29679492.53 29679492.70 29679492.86 0.0090 0.0007

Neptune 76547-10-31 06:58 G 29679580.64 29679580.79 29679580.95 0.0090 0.0016

Earth 76547-11-01 09:08 G 29679581.75 29679581.88 29679582.01 0.2705 0.0154

Moon 76547-11-01 10:05 G 29679581.79 29679581.92 29679582.05 0.2703 0.0184 *

Neptune 76548-01-27 09:22 G 29679668.74 29679668.89 29679669.05 0.0090 0.0025

Neptune 76548-04-24 11:32 G 29679756.84 29679756.98 29679757.14 0.0090 0.0034

Neptune 76548-07-21 13:56 G 29679844.94 29679845.08 29679845.22 0.0090 0.0043

Neptune 76548-10-17 16:05 G 29679933.05 29679933.17 29679933.31 0.0090 0.0052

Neptune 76549-01-13 18:15 G 29680021.16 29680021.26 29680021.39 0.0090 0.0061

Neptune 76549-04-11 20:24 G 29680109.27 29680109.35 29680109.47 0.0090 0.0070

Neptune 76549-07-08 22:48 G 29680197.38 29680197.45 29680197.54 0.0090 0.0078

Neptune 76549-10-05 00:58 G 29680285.52 29680285.54 29680285.59 0.0090 0.0087

Jupiter 76549-11-03 21:22 G 29680315.28 29680315.39 29680315.50 0.0493 0.0320

Jupiter 76550-02-01 06:58 G 29680404.69 29680404.79 29680404.90 0.0491 0.0332

Mars 76550-04-23 18:44 G 29680486.17 29680486.28 29680486.39 0.1732 0.0823

Earth 76550-05-01 03:08 G 29680493.52 29680493.63 29680493.75 0.2627 0.1154

Moon 76550-05-01 03:36 G 29680493.54 29680493.65 29680493.76 0.2621 0.1172 *

Mars 76551-03-08 10:34 G 29680804.86 29680804.94 29680805.02 0.1776 0.1515

Venus 76551-04-15 18:58 G 29680843.18 29680843.29 29680843.41 0.3656 0.0384

Jupiter 76556-04-04 16:34 G 29682659.07 29682659.19 29682659.31 0.0537 0.0334

Venus 76556-10-29 13:27 G 29682867.04 29682867.06 29682867.08 0.3657 0.3566

Uranus 76559-08-17 22:48 G 29683889.38 29683889.45 29683889.55 0.0134 0.0115

Mars 76559-09-14 04:20 G 29683916.61 29683916.68 29683916.74 0.1725 0.1424

Saturn 76559-11-11 21:22 G 29683975.33 29683975.39 29683975.46 0.0287 0.0260

Uranus 76559-11-14 04:05 G 29683977.56 29683977.67 29683977.79 0.0134 0.0093

Saturn 76560-02-08 16:20 G 29684064.03 29684064.18 29684064.34 0.0287 0.0095

Uranus 76560-02-10 09:22 G 29684065.75 29684065.89 29684066.02 0.0134 0.0071

Saturn 76560-05-07 11:03 G 29684152.80 29684152.96 29684153.12 0.0286 0.0067

Uranus 76560-05-08 14:10 G 29684153.94 29684154.09 29684154.24 0.0134 0.0049

Mars 76560-07-28 11:17 G 29684234.82 29684234.97 29684235.12 0.1783 0.0503

Saturn 76560-08-04 04:48 G 29684241.61 29684241.70 29684241.81 0.0286 0.0223

Uranus 76560-08-04 19:12 G 29684242.14 29684242.30 29684242.46 0.0134 0.0027

Uranus 76560-11-01 00:00 G 29684330.34 29684330.50 29684330.67 0.0134 0.0006

Earth 76560-11-03 07:41 G 29684332.72 29684332.82 29684332.92 0.2705 0.1721

Moon 76560-11-03 08:10 G 29684332.74 29684332.84 29684332.93 0.2698 0.1846 *

Uranus 76561-01-28 05:03 G 29684418.55 29684418.71 29684418.87 0.0134 0.0016

Uranus 76561-04-26 09:36 G 29684506.75 29684506.90 29684507.06 0.0135 0.0038

Uranus 76561-07-23 14:24 G 29684594.96 29684595.10 29684595.25 0.0135 0.0059

Mars 76561-08-19 15:22 G 29684622.05 29684622.14 29684622.23 0.1751 0.1181

Jupiter 76561-08-23 00:29 G 29684625.50 29684625.52 29684625.56 0.0494 0.0480

Uranus 76561-10-19 19:12 G 29684683.18 29684683.30 29684683.44 0.0135 0.0079

Jupiter 76561-11-20 10:05 G 29684714.78 29684714.92 29684715.05 0.0492 0.0168

Uranus 76562-01-16 00:00 G 29684771.40 29684771.50 29684771.61 0.0135 0.0100

Uranus 76562-04-14 04:34 G 29684859.63 29684859.69 29684859.77 0.0135 0.0121

Moon 76563-05-04 00:00 G 29685244.37 29685244.50 29685244.63 0.2621 0.0249

Earth 76563-05-04 00:29 G 29685244.39 29685244.52 29685244.64 0.2627 0.0222 *

Jupiter 76568-01-22 16:20 G 29686969.03 29686969.18 29686969.33 0.0536 0.0103

Pluto 76569-01-09 17:46 G 29687322.19 29687322.24 29687322.33 0.0063 0.0057

Pluto 76569-04-07 18:44 G 29687410.19 29687410.28 29687410.41 0.0064 0.0046

Pluto 76569-07-04 19:56 G 29687498.20 29687498.33 29687498.47 0.0064 0.0035

Pluto 76569-09-30 20:24 G 29687586.22 29687586.35 29687586.52 0.0064 0.0025

Mars 76569-12-18 11:46 G 29687664.84 29687664.99 29687665.14 0.1790 0.0538

Pluto 76569-12-27 21:36 G 29687674.25 29687674.40 29687674.56 0.0064 0.0014

Pluto 76570-03-25 22:34 G 29687762.28 29687762.44 29687762.60 0.0064 0.0003

Pluto 76570-06-21 23:17 G 29687850.31 29687850.47 29687850.63 0.0064 0.0008

Pluto 76570-09-18 00:00 G 29687938.36 29687938.50 29687938.66 0.0064 0.0019

Pluto 76570-12-15 00:44 G 29688026.40 29688026.53 29688026.69 0.0064 0.0030

Mars 76571-01-10 00:15 G 29688052.39 29688052.51 29688052.62 0.1744 0.0513

Pluto 76571-03-13 01:56 G 29688114.46 29688114.58 29688114.70 0.0064 0.0041

Pluto 76571-06-09 02:39 G 29688202.52 29688202.61 29688202.71 0.0064 0.0052

Pluto 76571-09-05 03:22 G 29688290.62 29688290.64 29688290.68 0.0064 0.0063

Jupiter 76573-09-08 13:27 G 29689024.91 29689025.06 29689025.20 0.0492 0.0011

Saturn 76575-02-16 08:24 G 29689550.75 29689550.85 29689550.95 0.0273 0.0196

Saturn 76575-05-15 21:08 G 29689639.24 29689639.38 29689639.52 0.0273 0.0077

Saturn 76575-08-12 10:20 G 29689727.78 29689727.93 29689728.07 0.0273 0.0047

Saturn 76575-11-08 23:32 G 29689816.37 29689816.48 29689816.60 0.0274 0.0172

Moon 76576-05-05 21:08 G 29689995.27 29689995.38 29689995.48 0.2626 0.1467

Earth 76576-05-05 21:51 G 29689995.31 29689995.41 29689995.52 0.2628 0.1635 *

Mars 76579-05-10 11:03 G 29691094.90 29691094.96 29691095.01 0.1798 0.1667

Jupiter 76579-11-10 15:51 G 29691279.01 29691279.16 29691279.31 0.0536 0.0131

Mars 76580-06-01 09:22 G 29691482.77 29691482.89 29691483.01 0.1738 0.0129

Earth 76580-10-29 15:36 G 29691633.03 29691633.15 29691633.27 0.2706 0.1177

Moon 76580-10-29 16:48 G 29691633.08 29691633.20 29691633.31 0.2707 0.1077 *

Earth 76583-04-29 11:32 G 29692544.91 29692544.98 29692545.04 0.2626 0.2229

Moon 76583-04-29 12:15 G 29692544.94 29692545.01 29692545.08 0.2623 0.2153 *

Jupiter 76585-06-27 16:48 G 29693335.07 29693335.20 29693335.34 0.0493 0.0147

Saturn 76589-06-27 15:22 G 29694796.00 29694796.14 29694796.28 0.0286 0.0151

Saturn 76589-09-24 09:51 G 29694884.75 29694884.91 29694885.08 0.0286 0.0013

Venus 76589-09-24 16:20 G 29694885.06 29694885.18 29694885.30 0.3716 0.1361 *

Mars 76589-10-22 18:44 G 29694913.17 29694913.28 29694913.39 0.1732 0.0747

Saturn 76589-12-22 04:05 G 29694973.54 29694973.67 29694973.80 0.0285 0.0168

Mars 76590-09-06 11:03 G 29695231.91 29695231.96 29695232.02 0.1776 0.1626

Jupiter 76591-08-29 15:51 G 29695589.05 29695589.16 29695589.28 0.0535 0.0355

Earth 76593-11-01 14:39 G 29696383.98 29696384.11 29696384.23 0.2705 0.0456

Moon 76593-11-01 15:22 G 29696384.01 29696384.14 29696384.27 0.2701 0.0586 *

Venus 76595-04-10 15:22 G 29696909.08 29696909.14 29696909.19 0.3714 0.3310

Earth 76596-05-01 08:24 G 29697295.73 29697295.85 29697295.97 0.2627 0.0895

Moon 76596-05-01 08:39 G 29697295.74 29697295.86 29697295.98 0.2621 0.0833 *

Jupiter 76597-04-15 20:10 G 29697645.23 29697645.34 29697645.46 0.0493 0.0305

Jupiter 76597-07-14 06:00 G 29697734.64 29697734.75 29697734.85 0.0491 0.0347

Mars 76599-03-15 04:20 G 29698343.61 29698343.68 29698343.75 0.1725 0.1347

Mars 76600-01-27 12:00 G 29698661.86 29698662.00 29698662.15 0.1783 0.0627

Uranus 76600-11-26 09:22 G 29698964.83 29698964.89 29698964.96 0.0144 0.0130

Mars 76601-02-18 15:22 G 29699049.05 29699049.14 29699049.22 0.1751 0.1258

Uranus 76601-02-22 14:10 G 29699052.99 29699053.09 29699053.19 0.0144 0.0106

Uranus 76601-05-21 18:58 G 29699141.17 29699141.29 29699141.41 0.0144 0.0082

Uranus 76601-08-17 23:46 G 29699229.35 29699229.49 29699229.63 0.0144 0.0058

Uranus 76601-11-14 04:34 G 29699317.55 29699317.69 29699317.84 0.0144 0.0034

Uranus 76602-02-10 09:36 G 29699405.75 29699405.90 29699406.05 0.0144 0.0009

Venus 76602-05-07 23:03 G 29699492.36 29699492.46 29699492.56 0.3655 0.1591

Uranus 76602-05-09 14:39 G 29699493.96 29699494.11 29699494.26 0.0144 0.0016

Uranus 76602-08-05 19:27 G 29699582.17 29699582.31 29699582.46 0.0144 0.0041

Uranus 76602-11-02 00:29 G 29699670.39 29699670.52 29699670.66 0.0144 0.0065

Uranus 76603-01-29 05:32 G 29699758.62 29699758.73 29699758.85 0.0144 0.0090

Uranus 76603-04-27 10:34 G 29699846.86 29699846.94 29699847.04 0.0143 0.0116

Uranus 76603-07-24 15:36 G 29699935.14 29699935.15 29699935.19 0.0143 0.0141

Jupiter 76603-09-16 15:51 G 29699989.05 29699989.16 29699989.28 0.0537 0.0360

Saturn 76604-07-06 08:24 G 29700282.80 29700282.85 29700282.92 0.0273 0.0246

Saturn 76604-10-02 21:22 G 29700371.26 29700371.39 29700371.51 0.0273 0.0127

Saturn 76604-12-30 10:05 G 29700459.78 29700459.92 29700460.07 0.0273 0.0010

Saturn 76605-03-28 23:17 G 29700548.34 29700548.47 29700548.61 0.0274 0.0120

Saturn 76605-06-25 12:44 G 29700636.98 29700637.03 29700637.10 0.0274 0.0247

Earth 76606-11-05 13:12 G 29701134.96 29701135.05 29701135.13 0.2705 0.2016

Moon 76606-11-05 13:27 G 29701134.98 29701135.06 29701135.15 0.2698 0.1967 *

Venus 76607-11-21 17:17 G 29701516.11 29701516.22 29701516.32 0.3656 0.1544

Jupiter 76609-02-02 23:46 G 29701955.44 29701955.49 29701955.54 0.0494 0.0461

Jupiter 76609-05-03 09:08 G 29702044.75 29702044.88 29702045.02 0.0491 0.0187

Moon 76609-05-05 05:17 G 29702046.59 29702046.72 29702046.85 0.2621 0.0368

Earth 76609-05-05 05:46 G 29702046.61 29702046.74 29702046.87 0.2627 0.0490 *

Mars 76609-06-19 12:00 G 29702091.85 29702092.00 29702092.15 0.1791 0.0439

Mars 76610-07-12 00:15 G 29702479.39 29702479.51 29702479.62 0.1744 0.0591

Earth 76613-10-28 21:51 G 29703684.37 29703684.41 29703684.45 0.2706 0.2542

Moon 76613-10-28 22:48 G 29703684.39 29703684.45 29703684.51 0.2710 0.2382 *

Jupiter 76615-07-05 15:22 G 29704298.99 29704299.14 29704299.30 0.0536 0.0127

Mars 76618-11-09 11:32 G 29705521.91 29705521.98 29705522.06 0.1798 0.1541

Saturn 76618-11-15 14:24 G 29705527.99 29705528.10 29705528.22 0.0287 0.0206

Saturn 76619-02-12 09:22 G 29705616.73 29705616.89 29705617.06 0.0287 0.0042

Saturn 76619-05-12 03:51 G 29705705.51 29705705.66 29705705.81 0.0286 0.0118

Saturn 76619-08-08 21:36 G 29705794.36 29705794.40 29705794.45 0.0286 0.0273

Mars 76619-12-02 09:22 G 29705909.77 29705909.89 29705910.01 0.1738 0.0057

Jupiter 76621-02-19 12:15 G 29706354.86 29706355.01 29706355.15 0.0492 0.0023

Moon 76622-05-08 02:24 G 29706797.51 29706797.60 29706797.69 0.2627 0.1885

Earth 76622-05-08 03:22 G 29706797.55 29706797.64 29706797.73 0.2628 0.1912 *

Earth 76626-10-31 21:08 G 29708435.26 29708435.38 29708435.50 0.2706 0.0863

Moon 76626-10-31 22:20 G 29708435.30 29708435.43 29708435.55 0.2707 0.0754 *

Jupiter 76627-04-23 15:08 G 29708608.97 29708609.13 29708609.28 0.0535 0.0107

Neptune 76627-08-22 09:22 G 29708729.85 29708729.89 29708729.96 0.0088 0.0081

Neptune 76627-11-18 11:32 G 29708817.90 29708817.98 29708818.06 0.0088 0.0073

Neptune 76628-02-14 13:27 G 29708905.96 29708906.06 29708906.16 0.0088 0.0065

Neptune 76628-05-12 14:53 G 29708994.02 29708994.12 29708994.25 0.0088 0.0058

Neptune 76628-08-08 16:48 G 29709082.09 29709082.20 29709082.34 0.0088 0.0050

Neptune 76628-11-04 18:44 G 29709170.16 29709170.28 29709170.43 0.0088 0.0042

Neptune 76629-01-31 20:39 G 29709258.23 29709258.36 29709258.51 0.0088 0.0034

Mars 76629-04-23 18:44 G 29709340.16 29709340.28 29709340.39 0.1731 0.0681

Neptune 76629-04-29 22:34 G 29709346.30 29709346.44 29709346.59 0.0088 0.0026

Earth 76629-04-30 16:34 G 29709347.11 29709347.19 29709347.28 0.2627 0.1973

Moon 76629-04-30 17:32 G 29709347.14 29709347.23 29709347.31 0.2623 0.1887 *

Neptune 76629-07-27 00:29 G 29709434.38 29709434.52 29709434.68 0.0088 0.0018

Neptune 76629-10-23 02:39 G 29709522.45 29709522.61 29709522.76 0.0088 0.0010

Neptune 76630-01-19 04:34 G 29709610.53 29709610.69 29709610.84 0.0088 0.0002

Mars 76630-03-08 12:00 G 29709658.97 29709659.00 29709659.02 0.1776 0.1747

Neptune 76630-04-17 06:29 G 29709698.61 29709698.77 29709698.92 0.0088 0.0007

Neptune 76630-07-14 08:24 G 29709786.70 29709786.85 29709787.00 0.0088 0.0015

Neptune 76630-10-10 10:20 G 29709874.78 29709874.93 29709875.08 0.0088 0.0023

Neptune 76631-01-06 12:15 G 29709962.87 29709963.01 29709963.16 0.0088 0.0031

Neptune 76631-04-04 14:10 G 29710050.96 29710051.09 29710051.23 0.0088 0.0039

Neptune 76631-07-01 16:05 G 29710139.05 29710139.17 29710139.31 0.0088 0.0047

Neptune 76631-09-27 18:00 G 29710227.14 29710227.25 29710227.38 0.0088 0.0056

Neptune 76631-12-24 20:10 G 29710315.24 29710315.34 29710315.45 0.0088 0.0064

Neptune 76632-03-21 22:20 G 29710403.34 29710403.43 29710403.52 0.0088 0.0072

Neptune 76632-06-18 00:00 G 29710491.45 29710491.50 29710491.57 0.0088 0.0081

Jupiter 76632-12-08 15:36 G 29710665.01 29710665.15 29710665.29 0.0493 0.0136

Saturn 76633-11-23 11:32 G 29711014.98 29711014.98 29711014.98 0.0272 0.0272

Saturn 76634-02-20 00:00 G 29711103.38 29711103.50 29711103.62 0.0272 0.0155

Saturn 76634-05-19 12:58 G 29711191.89 29711192.04 29711192.18 0.0273 0.0035

Saturn 76634-08-16 01:56 G 29711280.44 29711280.58 29711280.72 0.0273 0.0089

Saturn 76634-11-12 15:22 G 29711369.05 29711369.14 29711369.23 0.0274 0.0216

Mars 76638-09-14 04:20 G 29712770.60 29712770.68 29712770.76 0.1726 0.1274

Jupiter 76639-02-09 14:10 G 29712918.98 29712919.09 29712919.21 0.0535 0.0347

Mars 76639-07-29 12:29 G 29713088.88 29713089.02 29713089.16 0.1783 0.0737

Earth 76639-11-03 19:56 G 29713186.21 29713186.33 29713186.46 0.2705 0.0760

Moon 76639-11-03 20:53 G 29713186.24 29713186.37 29713186.49 0.2700 0.0807 *

Mars 76640-08-19 15:08 G 29713476.06 29713476.13 29713476.21 0.1751 0.1328

Moon 76642-05-03 13:41 G 29714097.95 29714098.07 29714098.20 0.2620 0.0652

Earth 76642-05-03 13:41 G 29714097.95 29714098.07 29714098.20 0.2627 0.0630 *

Uranus 76643-06-12 01:12 G 29714502.51 29714502.55 29714502.59 0.0134 0.0130

Uranus 76643-09-08 06:15 G 29714590.67 29714590.76 29714590.86 0.0134 0.0108

Uranus 76643-12-05 11:17 G 29714678.85 29714678.97 29714679.10 0.0134 0.0086

Uranus 76644-03-02 16:20 G 29714767.04 29714767.18 29714767.33 0.0134 0.0064

Uranus 76644-05-29 21:22 G 29714855.24 29714855.39 29714855.55 0.0134 0.0042

Uranus 76644-08-26 02:24 G 29714943.44 29714943.60 29714943.76 0.0135 0.0020

Jupiter 76644-09-26 19:12 G 29714975.19 29714975.30 29714975.42 0.0493 0.0290

Uranus 76644-11-22 07:27 G 29715031.64 29715031.81 29715031.97 0.0135 0.0003

Jupiter 76644-12-25 04:48 G 29715064.61 29715064.70 29715064.80 0.0491 0.0364

Uranus 76645-02-18 12:15 G 29715119.85 29715120.01 29715120.17 0.0135 0.0023

Uranus 76645-05-17 17:03 G 29715208.06 29715208.21 29715208.36 0.0135 0.0044

Uranus 76645-08-13 21:51 G 29715296.27 29715296.41 29715296.55 0.0135 0.0066

Uranus 76645-11-10 02:24 G 29715384.49 29715384.60 29715384.73 0.0135 0.0087

Uranus 76646-02-06 07:12 G 29715472.71 29715472.80 29715472.90 0.0135 0.0108

Venus 76646-05-02 15:51 G 29715558.03 29715558.16 29715558.28 0.3715 0.0362

Uranus 76646-05-05 12:00 G 29715560.96 29715561.00 29715561.05 0.0135 0.0128

Saturn 76648-04-03 13:27 G 29716260.00 29716260.06 29716260.13 0.0287 0.0262

Saturn 76648-07-01 08:39 G 29716348.70 29716348.86 29716349.01 0.0286 0.0096

Saturn 76648-09-28 03:08 G 29716437.47 29716437.63 29716437.79 0.0286 0.0065

Mars 76648-12-18 12:44 G 29716518.88 29716519.03 29716519.18 0.1790 0.0311

Saturn 76648-12-25 21:08 G 29716526.28 29716526.38 29716526.48 0.0285 0.0221

Mars 76650-01-10 00:15 G 29716906.40 29716906.51 29716906.62 0.1744 0.0667

Jupiter 76651-02-26 13:56 G 29717318.97 29717319.08 29717319.20 0.0537 0.0365

Earth 76652-11-05 18:29 G 29717937.21 29717937.27 29717937.34 0.2705 0.2306

Moon 76652-11-05 18:44 G 29717937.22 29717937.28 29717937.34 0.2698 0.2370 *

Venus 76653-05-29 03:08 G 29718141.60 29718141.63 29718141.66 0.3654 0.3490

Moon 76655-05-06 10:34 G 29718848.81 29718848.94 29718849.06 0.2622 0.0755

Earth 76655-05-06 11:03 G 29718848.84 29718848.96 29718849.08 0.2627 0.0756 *

Jupiter 76656-07-15 22:34 G 29719285.39 29719285.44 29719285.50 0.0494 0.0447

Jupiter 76656-10-13 07:56 G 29719374.70 29719374.83 29719374.97 0.0491 0.0201

Mars 76658-05-10 12:15 G 29719948.91 29719949.01 29719949.10 0.1798 0.1417

Pluto 76658-09-17 21:51 G 29720079.36 29720079.41 29720079.50 0.0081 0.0072

Venus 76658-12-12 21:08 G 29720165.26 29720165.38 29720165.49 0.3656 0.0446

Pluto 76658-12-14 23:32 G 29720167.38 29720167.48 29720167.62 0.0081 0.0051

Pluto 76659-03-13 01:27 G 29720255.42 29720255.56 29720255.71 0.0081 0.0029

Mars 76659-06-02 09:22 G 29720336.77 29720336.89 29720337.01 0.1738 0.0026

Pluto 76659-06-09 03:08 G 29720343.48 29720343.63 29720343.79 0.0080 0.0008

Pluto 76659-09-05 04:48 G 29720431.54 29720431.70 29720431.85 0.0080 0.0013

Earth 76659-10-30 03:22 G 29720486.57 29720486.64 29720486.72 0.2706 0.2222

Moon 76659-10-30 04:20 G 29720486.61 29720486.68 29720486.76 0.2710 0.2203 *

Pluto 76659-12-02 06:15 G 29720519.63 29720519.76 29720519.91 0.0080 0.0033

Pluto 76660-02-28 07:41 G 29720607.72 29720607.82 29720607.95 0.0080 0.0054

Pluto 76660-05-26 09:22 G 29720695.85 29720695.89 29720695.95 0.0080 0.0075

Jupiter 76662-12-15 14:24 G 29721628.96 29721629.10 29721629.26 0.0537 0.0149

Saturn 76663-07-10 00:15 G 29721835.41 29721835.51 29721835.60 0.0273 0.0204

Saturn 76663-10-06 12:58 G 29721923.90 29721924.04 29721924.17 0.0273 0.0085

Saturn 76664-01-03 01:56 G 29722012.43 29722012.58 29722012.72 0.0273 0.0038

Saturn 76664-03-31 14:53 G 29722101.01 29722101.12 29722101.25 0.0274 0.0163

Venus 76664-06-27 15:22 G 29722189.06 29722189.14 29722189.21 0.3657 0.2719

Moon 76668-05-08 07:41 G 29723599.74 29723599.82 29723599.90 0.2627 0.1996

Earth 76668-05-08 08:39 G 29723599.79 29723599.86 29723599.93 0.2628 0.2195 *

Jupiter 76668-08-01 11:17 G 29723684.83 29723684.97 29723685.12 0.0492 0.0043

Mars 76668-10-22 18:44 G 29723767.17 29723767.28 29723767.39 0.1731 0.0602

Earth 76672-11-01 02:39 G 29725237.48 29725237.61 29725237.74 0.2706 0.0557

Moon 76672-11-01 03:36 G 29725237.53 29725237.65 29725237.78 0.2705 0.0412 *

Jupiter 76674-10-03 14:10 G 29725938.93 29725939.09 29725939.25 0.0535 0.0084

Earth 76675-05-01 21:51 G 29726149.32 29726149.41 29726149.51 0.2627 0.1715

Moon 76675-05-01 22:34 G 29726149.34 29726149.44 29726149.54 0.2622 0.1621 *

Saturn 76677-11-18 07:41 G 29727080.68 29727080.82 29727080.96 0.0287 0.0152

Saturn 76678-02-15 02:24 G 29727169.44 29727169.60 29727169.77 0.0287 0.0012

Mars 76678-03-15 04:20 G 29727197.59 29727197.68 29727197.76 0.1725 0.1203

Saturn 76678-05-14 20:39 G 29727258.23 29727258.36 29727258.49 0.0286 0.0170

Mars 76679-01-27 12:58 G 29727515.91 29727516.04 29727516.18 0.1783 0.0851

Mars 76680-02-18 15:22 G 29727903.07 29727903.14 29727903.21 0.1751 0.1406

Jupiter 76680-05-20 14:10 G 29727994.96 29727995.09 29727995.23 0.0493 0.0126

Uranus 76684-12-16 16:48 G 29729666.13 29729666.20 29729666.28 0.0144 0.0122

Uranus 76685-03-14 21:36 G 29729754.29 29729754.40 29729754.51 0.0144 0.0098

Uranus 76685-06-11 02:24 G 29729842.47 29729842.60 29729842.73 0.0144 0.0074

Uranus 76685-09-07 07:12 G 29729930.66 29729930.80 29729930.94 0.0144 0.0050

Earth 76685-11-04 01:27 G 29729988.45 29729988.56 29729988.68 0.2705 0.1055

Moon 76685-11-04 02:10 G 29729988.48 29729988.59 29729988.71 0.2700 0.1148 *

Uranus 76685-12-04 12:00 G 29730018.86 29730019.00 29730019.15 0.0144 0.0026

Uranus 76686-03-02 17:03 G 29730107.06 29730107.21 29730107.36 0.0144 0.0002

Uranus 76686-05-29 21:51 G 29730195.26 29730195.41 29730195.57 0.0144 0.0024

Jupiter 76686-07-22 13:27 G 29730248.94 29730249.06 29730249.19 0.0534 0.0320

Uranus 76686-08-26 02:53 G 29730283.48 29730283.62 29730283.77 0.0144 0.0048

Uranus 76686-11-22 07:41 G 29730371.70 29730371.82 29730371.96 0.0144 0.0074

Uranus 76687-02-18 12:44 G 29730459.93 29730460.03 29730460.15 0.0144 0.0099

Uranus 76687-05-17 18:00 G 29730548.18 29730548.25 29730548.33 0.0143 0.0124

Moon 76688-05-03 18:58 G 29730900.16 29730900.29 29730900.42 0.2620 0.0364

Earth 76688-05-03 18:58 G 29730900.17 29730900.29 29730900.42 0.2627 0.0369 *

Mars 76688-06-18 13:27 G 29730945.90 29730946.06 29730946.21 0.1790 0.0185

Mars 76689-07-11 00:15 G 29731333.40 29731333.51 29731333.62 0.1744 0.0739

Jupiter 76692-03-08 17:46 G 29732305.12 29732305.24 29732305.36 0.0494 0.0283

Jupiter 76692-06-06 03:22 G 29732394.55 29732394.64 29732394.74 0.0491 0.0373

Saturn 76692-11-26 03:08 G 29732567.56 29732567.63 29732567.70 0.0272 0.0230

Saturn 76693-02-22 15:36 G 29732656.03 29732656.15 29732656.29 0.0272 0.0113

Saturn 76693-05-22 04:34 G 29732744.55 29732744.69 29732744.84 0.0273 0.0012

Saturn 76693-08-18 17:46 G 29732833.12 29732833.24 29732833.37 0.0273 0.0134

Saturn 76693-11-15 07:12 G 29732921.76 29732921.80 29732921.85 0.0274 0.0261

Venus 76697-05-23 15:51 G 29734207.08 29734207.16 29734207.25 0.3717 0.2757

Mars 76697-11-08 12:44 G 29734375.93 29734376.03 29734376.14 0.1798 0.1297

Jupiter 76698-08-08 12:29 G 29734648.90 29734649.02 29734649.13 0.0537 0.0371

Moon 76698-11-06 23:46 G 29734739.45 29734739.49 29734739.54 0.2698 0.2541

Earth 76698-11-07 00:00 G 29734739.47 29734739.50 29734739.53 0.2705 0.2601 *

Mars 76698-12-01 09:22 G 29734763.77 29734763.89 29734764.01 0.1738 0.0100

Moon 76701-05-07 15:36 G 29735651.03 29735651.15 29735651.27 0.2624 0.0918

Earth 76701-05-07 16:20 G 29735651.07 29735651.18 29735651.30 0.2628 0.1038 *

Venus 76702-12-08 15:08 G 29736231.02 29736231.13 29736231.24 0.3715 0.2023

Jupiter 76703-12-27 21:22 G 29736615.33 29736615.39 29736615.46 0.0494 0.0435

Jupiter 76704-03-26 06:44 G 29736704.65 29736704.78 29736704.92 0.0492 0.0215

Earth 76705-10-31 08:53 G 29737288.78 29737288.87 29737288.97 0.2706 0.1912

Moon 76705-10-31 09:51 G 29737288.82 29737288.91 29737289.01 0.2710 0.1722 *

Saturn 76707-04-08 06:58 G 29737812.68 29737812.79 29737812.91 0.0287 0.0204

Saturn 76707-07-06 01:56 G 29737901.42 29737901.58 29737901.75 0.0286 0.0041

Saturn 76707-10-02 20:24 G 29737990.21 29737990.35 29737990.50 0.0286 0.0120

Saturn 76707-12-30 14:24 G 29738079.06 29738079.10 29738079.14 0.0285 0.0275

Mars 76708-04-23 18:44 G 29738194.16 29738194.28 29738194.39 0.1732 0.0524

Moon 76708-04-30 07:12 G 29738200.79 29738200.80 29738200.82 0.2625 0.2590

Neptune 76709-12-03 03:08 G 29738782.57 29738782.63 29738782.71 0.0090 0.0081

Venus 76710-01-04 00:58 G 29738814.46 29738814.54 29738814.63 0.3655 0.2370

Neptune 76710-03-01 05:32 G 29738870.65 29738870.73 29738870.84 0.0090 0.0072

Neptune 76710-05-28 08:24 G 29738958.73 29738958.85 29738958.97 0.0090 0.0062

Jupiter 76710-05-28 12:44 G 29738958.88 29738959.03 29738959.18 0.0536 0.0151 *

Neptune 76710-08-24 10:34 G 29739046.82 29739046.94 29739047.08 0.0090 0.0053

Neptune 76710-11-20 12:58 G 29739134.91 29739135.04 29739135.20 0.0090 0.0044

Neptune 76711-02-16 15:22 G 29739223.00 29739223.14 29739223.30 0.0090 0.0035

Neptune 76711-05-15 18:00 G 29739311.10 29739311.25 29739311.41 0.0090 0.0025

Neptune 76711-08-11 20:24 G 29739399.19 29739399.35 29739399.51 0.0090 0.0016

Neptune 76711-11-07 22:48 G 29739487.29 29739487.45 29739487.62 0.0090 0.0007

Neptune 76712-02-04 01:12 G 29739575.39 29739575.55 29739575.72 0.0090 0.0003

Neptune 76712-05-02 03:36 G 29739663.49 29739663.65 29739663.81 0.0090 0.0012

Neptune 76712-07-29 06:00 G 29739751.59 29739751.75 29739751.91 0.0090 0.0021

Neptune 76712-10-25 08:10 G 29739839.70 29739839.84 29739840.00 0.0090 0.0030

Neptune 76713-01-21 10:34 G 29739927.80 29739927.94 29739928.09 0.0090 0.0039

Neptune 76713-04-19 12:44 G 29740015.91 29740016.03 29740016.18 0.0090 0.0048

Neptune 76713-07-16 15:08 G 29740104.01 29740104.13 29740104.26 0.0090 0.0057

Neptune 76713-10-12 17:17 G 29740192.12 29740192.22 29740192.34 0.0090 0.0066

Neptune 76714-01-08 19:27 G 29740280.24 29740280.31 29740280.41 0.0090 0.0075

Neptune 76714-04-06 21:51 G 29740368.36 29740368.41 29740368.48 0.0090 0.0083

Moon 76714-05-10 12:58 G 29740402.00 29740402.04 29740402.09 0.2627 0.2437

Earth 76714-05-10 14:10 G 29740402.05 29740402.09 29740402.13 0.2628 0.2471 *

Venus 76715-07-20 19:12 G 29740838.19 29740838.30 29740838.41 0.3656 0.0721

Jupiter 76716-01-13 10:05 G 29741014.78 29741014.92 29741015.06 0.0492 0.0053

Mars 76717-09-14 04:20 G 29741624.59 29741624.68 29741624.77 0.1725 0.1130

Mars 76718-07-29 13:41 G 29741942.94 29741943.07 29741943.20 0.1783 0.0966

Earth 76718-11-03 08:10 G 29742039.71 29742039.84 29742039.97 0.2706 0.0249

Moon 76718-11-03 09:08 G 29742039.75 29742039.88 29742040.01 0.2703 0.0223 *

Mars 76719-08-20 15:22 G 29742330.08 29742330.14 29742330.20 0.1751 0.1485

Earth 76721-05-03 03:08 G 29742951.53 29742951.63 29742951.74 0.2627 0.1453

Moon 76721-05-03 03:36 G 29742951.55 29742951.65 29742951.76 0.2621 0.1453 *

Jupiter 76722-03-16 12:58 G 29743268.88 29743269.04 29743269.20 0.0536 0.0069

Saturn 76722-07-13 16:05 G 29743388.06 29743388.17 29743388.29 0.0272 0.0160

Saturn 76722-10-10 04:48 G 29743476.56 29743476.70 29743476.85 0.0273 0.0040

Saturn 76723-01-06 18:00 G 29743565.11 29743565.25 29743565.39 0.0273 0.0083

Saturn 76723-04-05 07:12 G 29743653.71 29743653.80 29743653.90 0.0274 0.0209

Mars 76727-02-04 13:56 G 29745055.07 29745055.08 29745055.09 0.1719 0.1710

Uranus 76727-07-03 08:10 G 29745203.79 29745203.84 29745203.92 0.0134 0.0123

Uranus 76727-09-29 13:27 G 29745291.96 29745292.06 29745292.18 0.0134 0.0100

Jupiter 76727-11-01 13:27 G 29745324.92 29745325.06 29745325.20 0.0493 0.0106

Mars 76727-12-19 13:41 G 29745372.92 29745373.07 29745373.23 0.1791 0.0096

Uranus 76727-12-26 18:29 G 29745380.15 29745380.27 29745380.41 0.0134 0.0078

Uranus 76728-03-23 23:32 G 29745468.34 29745468.48 29745468.64 0.0135 0.0057

Uranus 76728-06-20 04:34 G 29745556.54 29745556.69 29745556.85 0.0135 0.0035

Uranus 76728-09-16 09:36 G 29745644.74 29745644.90 29745645.07 0.0135 0.0013

Uranus 76728-12-13 14:39 G 29745732.95 29745733.11 29745733.27 0.0135 0.0009

Mars 76729-01-10 00:15 G 29745760.40 29745760.51 29745760.62 0.1744 0.0814

Uranus 76729-03-11 19:27 G 29745821.15 29745821.31 29745821.47 0.0135 0.0030

Uranus 76729-06-08 00:15 G 29745909.37 29745909.51 29745909.66 0.0135 0.0052

Uranus 76729-09-04 05:03 G 29745997.58 29745997.71 29745997.85 0.0135 0.0073

Uranus 76729-12-01 09:51 G 29746085.80 29746085.91 29746086.03 0.0135 0.0094

Uranus 76730-02-27 14:24 G 29746174.03 29746174.10 29746174.19 0.0135 0.0115

Earth 76731-11-06 06:58 G 29746790.68 29746790.79 29746790.90 0.2705 0.1351

Moon 76731-11-06 07:41 G 29746790.71 29746790.82 29746790.93 0.2700 0.1424 *

Jupiter 76734-01-02 12:29 G 29747578.89 29747579.02 29747579.16 0.0534 0.0299

Moon 76734-05-06 00:15 G 29747702.38 29747702.51 29747702.64 0.2621 0.0096

Earth 76734-05-06 00:29 G 29747702.39 29747702.52 29747702.64 0.2627 0.0121 *

Saturn 76736-08-25 05:32 G 29748544.68 29748544.73 29748544.80 0.0288 0.0265

Saturn 76736-11-22 00:58 G 29748633.38 29748633.54 29748633.69 0.0287 0.0098

Saturn 76737-02-18 19:27 G 29748722.15 29748722.31 29748722.47 0.0287 0.0065

Mars 76737-05-10 13:27 G 29748802.94 29748803.06 29748803.18 0.1798 0.1170

Saturn 76737-05-18 13:41 G 29748810.97 29748811.07 29748811.17 0.0286 0.0222

Mars 76738-06-02 09:22 G 29749190.77 29749190.89 29749191.01 0.1738 0.0171

Jupiter 76739-08-20 16:20 G 29749635.06 29749635.18 29749635.30 0.0494 0.0274

Jupiter 76739-11-18 02:10 G 29749724.50 29749724.59 29749724.68 0.0491 0.0382

Jupiter 76746-01-19 11:32 G 29751978.88 29751978.98 29751979.09 0.0536 0.0397

Moon 76747-05-08 20:53 G 29752453.25 29752453.37 29752453.48 0.2624 0.1222

Earth 76747-05-08 21:51 G 29752453.30 29752453.41 29752453.52 0.2628 0.1308 *

Mars 76747-10-23 18:29 G 29752621.16 29752621.27 29752621.39 0.1731 0.0460

Jupiter 76751-06-08 19:56 G 29753945.26 29753945.33 29753945.40 0.0494 0.0430

Jupiter 76751-09-06 05:17 G 29754034.59 29754034.72 29754034.85 0.0492 0.0220

Earth 76751-11-01 14:39 G 29754091.00 29754091.11 29754091.21 0.2706 0.1588

Moon 76751-11-01 15:36 G 29754091.05 29754091.15 29754091.26 0.2709 0.1567 *

Saturn 76751-11-30 19:12 G 29754120.20 29754120.30 29754120.40 0.0272 0.0185

Saturn 76752-02-27 07:56 G 29754208.69 29754208.83 29754208.97 0.0272 0.0066

Saturn 76752-05-25 20:53 G 29754297.23 29754297.37 29754297.51 0.0273 0.0056

Saturn 76752-08-22 10:05 G 29754385.81 29754385.92 29754386.03 0.0273 0.0181

Venus 76753-12-29 15:22 G 29754880.02 29754880.14 29754880.27 0.3716 0.1024

Earth 76754-05-01 11:32 G 29755002.95 29755002.98 29755003.02 0.2626 0.2513

Moon 76754-05-01 12:29 G 29755002.99 29755003.02 29755003.06 0.2624 0.2493 *

Mars 76757-03-15 04:20 G 29756051.58 29756051.68 29756051.77 0.1725 0.1053

Jupiter 76757-11-07 11:03 G 29756288.81 29756288.96 29756289.11 0.0536 0.0158

Mars 76758-01-27 14:10 G 29756369.97 29756370.09 29756370.22 0.1783 0.1081

Mars 76759-02-18 15:22 G 29756757.08 29756757.14 29756757.19 0.1751 0.1554

Venus 76759-07-15 14:24 G 29756904.08 29756904.10 29756904.12 0.3715 0.3656

Moon 76760-05-10 18:29 G 29757204.25 29757204.27 29757204.29 0.2629 0.2584

Jupiter 76763-06-25 08:53 G 29758344.72 29758344.87 29758345.01 0.0492 0.0065

Earth 76764-11-03 13:41 G 29758841.94 29758842.07 29758842.20 0.2706 0.0056

Moon 76764-11-03 14:39 G 29758841.98 29758842.11 29758842.24 0.2702 0.0251 *

Saturn 76766-04-11 00:58 G 29759365.40 29759365.54 29759365.68 0.0287 0.0144

Saturn 76766-07-08 19:41 G 29759454.16 29759454.32 29759454.49 0.0287 0.0021

Mars 76766-08-05 13:56 G 29759482.05 29759482.08 29759482.11 0.1719 0.1636

Venus 76766-08-10 23:03 G 29759487.36 29759487.46 29759487.57 0.3655 0.1235

Saturn 76766-10-05 13:56 G 29759542.96 29759543.08 29759543.21 0.0286 0.0178

Earth 76767-05-04 08:24 G 29759753.74 29759753.85 29759753.97 0.2627 0.1196

Moon 76767-05-04 08:53 G 29759753.75 29759753.87 29759753.98 0.2620 0.1089 *

Mars 76767-06-19 14:24 G 29759799.95 29759800.10 29759800.26 0.1791 0.0047

Mars 76768-07-11 00:15 G 29760187.41 29760187.51 29760187.62 0.1744 0.0894

Uranus 76768-10-10 19:27 G 29760279.28 29760279.31 29760279.36 0.0144 0.0138

Uranus 76769-01-07 00:15 G 29760367.43 29760367.51 29760367.60 0.0144 0.0114

Uranus 76769-04-05 05:03 G 29760455.60 29760455.71 29760455.83 0.0144 0.0090

Uranus 76769-07-02 09:51 G 29760543.78 29760543.91 29760544.05 0.0144 0.0066

Jupiter 76769-08-26 10:48 G 29760598.80 29760598.95 29760599.11 0.0535 0.0070

Uranus 76769-09-28 14:39 G 29760631.97 29760632.11 29760632.26 0.0144 0.0042

Uranus 76769-12-25 19:27 G 29760720.17 29760720.31 29760720.47 0.0144 0.0019

Uranus 76770-03-24 00:29 G 29760808.37 29760808.52 29760808.67 0.0144 0.0007

Uranus 76770-06-20 05:17 G 29760896.58 29760896.72 29760896.87 0.0144 0.0032

Uranus 76770-09-16 10:20 G 29760984.79 29760984.93 29760985.07 0.0144 0.0056

Uranus 76770-12-13 15:08 G 29761073.02 29761073.13 29761073.27 0.0143 0.0082

Uranus 76771-03-11 20:10 G 29761161.25 29761161.34 29761161.45 0.0143 0.0107

Uranus 76771-06-08 01:27 G 29761249.50 29761249.56 29761249.62 0.0143 0.0131

Venus 76772-02-24 17:03 G 29761511.12 29761511.21 29761511.31 0.3656 0.1867

Jupiter 76775-04-13 12:00 G 29762654.86 29762655.00 29762655.15 0.0493 0.0098

Mars 76776-11-08 13:56 G 29763229.96 29763230.08 29763230.21 0.1798 0.1054

Earth 76777-11-06 12:29 G 29763592.92 29763593.02 29763593.12 0.2705 0.1647

Moon 76777-11-06 12:44 G 29763592.93 29763593.03 29763593.14 0.2699 0.1649 *

Mars 76777-12-01 09:22 G 29763617.77 29763617.89 29763618.01 0.1738 0.0247

Moon 76780-05-06 05:32 G 29764504.60 29764504.73 29764504.85 0.2621 0.0140

Earth 76780-05-06 05:46 G 29764504.61 29764504.74 29764504.87 0.2627 0.0182 *

Saturn 76781-04-18 19:56 G 29764852.25 29764852.33 29764852.40 0.0272 0.0229

Jupiter 76781-06-14 11:03 G 29764908.83 29764908.96 29764909.09 0.0535 0.0291

Saturn 76781-07-16 08:24 G 29764940.72 29764940.85 29764940.98 0.0272 0.0112

Saturn 76781-10-12 21:22 G 29765029.24 29765029.39 29765029.53 0.0273 0.0010

Saturn 76782-01-09 10:20 G 29765117.81 29765117.93 29765118.06 0.0273 0.0133

Saturn 76782-04-07 23:46 G 29765206.45 29765206.49 29765206.54 0.0274 0.0259

Jupiter 76787-01-30 15:36 G 29766965.03 29766965.15 29766965.27 0.0493 0.0255

Mars 76787-04-23 18:44 G 29767048.16 29767048.28 29767048.40 0.1731 0.0380

Jupiter 76787-04-30 01:12 G 29767054.47 29767054.55 29767054.63 0.0491 0.0400

Neptune 76792-02-21 06:58 G 29768812.76 29768812.79 29768812.84 0.0088 0.0084

Neptune 76792-05-19 08:53 G 29768900.80 29768900.87 29768900.95 0.0088 0.0076

Neptune 76792-08-15 10:48 G 29768988.86 29768988.95 29768989.05 0.0088 0.0068

Neptune 76792-11-11 12:29 G 29769076.92 29769077.02 29769077.14 0.0088 0.0061

Neptune 76793-02-07 14:24 G 29769164.99 29769165.10 29769165.23 0.0088 0.0053

Jupiter 76793-04-02 10:34 G 29769218.91 29769218.94 29769218.98 0.0534 0.0519

Neptune 76793-05-06 16:20 G 29769253.05 29769253.18 29769253.31 0.0088 0.0045

Moon 76793-05-09 02:10 G 29769255.49 29769255.59 29769255.70 0.2624 0.1486

Earth 76793-05-09 03:08 G 29769255.53 29769255.63 29769255.73 0.2628 0.1589 *

Jupiter 76793-07-01 10:34 G 29769308.84 29769308.94 29769309.04 0.0536 0.0414

Neptune 76793-08-02 18:15 G 29769341.12 29769341.26 29769341.40 0.0088 0.0037

Neptune 76793-10-29 20:10 G 29769429.20 29769429.34 29769429.48 0.0088 0.0029

Neptune 76794-01-25 22:05 G 29769517.27 29769517.42 29769517.57 0.0088 0.0021

Neptune 76794-04-24 00:00 G 29769605.35 29769605.50 29769605.65 0.0088 0.0013

Neptune 76794-07-21 01:41 G 29769693.42 29769693.57 29769693.73 0.0088 0.0006

Neptune 76794-10-17 03:51 G 29769781.50 29769781.66 29769781.81 0.0088 0.0004

Neptune 76795-01-13 05:32 G 29769869.58 29769869.73 29769869.89 0.0088 0.0012

Neptune 76795-04-11 07:27 G 29769957.67 29769957.81 29769957.97 0.0088 0.0020

Neptune 76795-07-08 09:22 G 29770045.75 29770045.89 29770046.04 0.0088 0.0028

Saturn 76795-08-28 23:32 G 29770097.37 29770097.48 29770097.60 0.0288 0.0204

Neptune 76795-10-04 11:17 G 29770133.84 29770133.97 29770134.12 0.0088 0.0036

Saturn 76795-11-25 18:29 G 29770186.11 29770186.27 29770186.44 0.0287 0.0039

Neptune 76795-12-31 13:12 G 29770221.93 29770222.05 29770222.20 0.0088 0.0044

Saturn 76796-02-22 12:58 G 29770274.90 29770275.04 29770275.19 0.0287 0.0123

Neptune 76796-03-28 15:22 G 29770310.02 29770310.14 29770310.27 0.0088 0.0052

Saturn 76796-05-21 06:58 G 29770363.76 29770363.79 29770363.83 0.0286 0.0278

Neptune 76796-06-24 17:32 G 29770398.12 29770398.23 29770398.34 0.0088 0.0060

Mars 76796-09-13 04:05 G 29770478.58 29770478.67 29770478.77 0.1725 0.0985

Neptune 76796-09-20 19:12 G 29770486.22 29770486.30 29770486.41 0.0088 0.0069

Neptune 76796-12-17 21:08 G 29770574.32 29770574.38 29770574.47 0.0088 0.0077

Neptune 76797-03-15 23:17 G 29770662.44 29770662.47 29770662.51 0.0088 0.0085

Mars 76797-07-28 14:39 G 29770797.00 29770797.11 29770797.23 0.1783 0.1189

Earth 76797-11-01 20:10 G 29770893.23 29770893.34 29770893.46 0.2706 0.1274

Moon 76797-11-01 21:22 G 29770893.27 29770893.39 29770893.50 0.2707 0.1085 *

Mars 76798-08-19 15:22 G 29771184.10 29771184.14 29771184.18 0.1751 0.1632

Jupiter 76798-11-18 18:29 G 29771275.19 29771275.27 29771275.34 0.0494 0.0424

Jupiter 76799-02-16 03:51 G 29771364.53 29771364.66 29771364.79 0.0492 0.0228

Earth 76800-05-01 16:48 G 29771805.14 29771805.20 29771805.26 0.2626 0.2261

Moon 76800-05-01 17:32 G 29771805.16 29771805.23 29771805.31 0.2623 0.2109 *

Jupiter 76805-04-19 10:05 G 29773618.78 29773618.92 29773619.07 0.0535 0.0184

Mars 76806-02-03 13:41 G 29773909.03 29773909.07 29773909.12 0.1719 0.1569

Mars 76806-12-18 15:08 G 29774226.98 29774227.13 29774227.29 0.1790 0.0171

Mars 76808-01-10 00:15 G 29774614.40 29774614.51 29774614.61 0.1744 0.0960

Venus 76810-08-05 14:53 G 29775552.99 29775553.12 29775553.24 0.3716 0.0675

Saturn 76810-09-05 23:03 G 29775584.41 29775584.46 29775584.51 0.0272 0.0252

Earth 76810-11-04 19:12 G 29775644.17 29775644.30 29775644.43 0.2706 0.0368

Moon 76810-11-04 20:10 G 29775644.21 29775644.34 29775644.47 0.2702 0.0393 *

Saturn 76810-12-03 11:32 G 29775672.86 29775672.98 29775673.11 0.0272 0.0136

Jupiter 76810-12-05 06:58 G 29775674.65 29775674.79 29775674.94 0.0493 0.0066

Saturn 76811-03-02 00:29 G 29775761.37 29775761.52 29775761.66 0.0272 0.0016

Saturn 76811-05-29 13:27 G 29775849.93 29775850.06 29775850.20 0.0273 0.0107

Uranus 76811-07-23 15:08 G 29775905.06 29775905.13 29775905.23 0.0134 0.0117

Saturn 76811-08-26 02:39 G 29775938.54 29775938.61 29775938.69 0.0273 0.0234

Uranus 76811-10-19 20:39 G 29775993.24 29775993.36 29775993.47 0.0135 0.0094

Uranus 76812-01-16 01:41 G 29776081.43 29776081.57 29776081.71 0.0135 0.0072

Uranus 76812-04-13 06:44 G 29776169.63 29776169.78 29776169.93 0.0135 0.0050

Uranus 76812-07-10 11:46 G 29776257.83 29776257.99 29776258.15 0.0135 0.0028

Uranus 76812-10-06 16:34 G 29776346.03 29776346.19 29776346.36 0.0135 0.0008

Uranus 76813-01-02 21:36 G 29776434.24 29776434.40 29776434.56 0.0135 0.0015

Uranus 76813-04-01 02:24 G 29776522.45 29776522.60 29776522.76 0.0135 0.0037

Earth 76813-05-04 13:41 G 29776555.96 29776556.07 29776556.19 0.2627 0.0932

Moon 76813-05-04 14:10 G 29776555.97 29776556.09 29776556.21 0.2620 0.0970 *

Uranus 76813-06-28 07:27 G 29776610.66 29776610.81 29776610.95 0.0135 0.0058

Uranus 76813-09-24 12:00 G 29776698.88 29776699.00 29776699.14 0.0135 0.0080

Uranus 76813-12-21 16:48 G 29776787.10 29776787.20 29776787.31 0.0135 0.0101

Uranus 76814-03-19 21:51 G 29776875.34 29776875.41 29776875.47 0.0135 0.0121

Pluto 76814-12-08 06:58 G 29777138.75 29777138.79 29777138.86 0.0063 0.0060

Pluto 76815-03-06 07:56 G 29777226.74 29777226.83 29777226.95 0.0064 0.0049

Pluto 76815-06-02 08:53 G 29777314.75 29777314.87 29777315.01 0.0064 0.0038

Pluto 76815-08-29 09:51 G 29777402.77 29777402.91 29777403.06 0.0064 0.0027

Pluto 76815-11-25 10:34 G 29777490.79 29777490.94 29777491.11 0.0064 0.0017

Pluto 76816-02-21 11:32 G 29777578.82 29777578.98 29777579.15 0.0064 0.0006

Mars 76816-05-09 14:39 G 29777656.98 29777657.11 29777657.24 0.1798 0.0932

Pluto 76816-05-19 12:29 G 29777666.86 29777667.02 29777667.18 0.0064 0.0005

Pluto 76816-08-15 13:12 G 29777754.90 29777755.05 29777755.21 0.0064 0.0016

Pluto 76816-11-11 13:56 G 29777842.95 29777843.08 29777843.24 0.0064 0.0027

Jupiter 76817-02-05 09:08 G 29777928.72 29777928.88 29777929.04 0.0535 0.0063

Pluto 76817-02-07 14:39 G 29777931.00 29777931.11 29777931.26 0.0064 0.0038

Pluto 76817-05-06 15:51 G 29778019.06 29778019.16 29778019.26 0.0064 0.0049

Mars 76817-06-01 09:22 G 29778044.77 29778044.89 29778045.01 0.1738 0.0320

Pluto 76817-08-02 16:34 G 29778107.14 29778107.19 29778107.25 0.0064 0.0060

Venus 76817-09-01 03:08 G 29778136.58 29778136.63 29778136.69 0.3654 0.3131

Jupiter 76822-09-23 10:34 G 29779984.80 29779984.94 29779985.08 0.0493 0.0091

Venus 76823-03-17 21:08 G 29780160.27 29780160.38 29780160.49 0.3655 0.0094

Earth 76823-11-07 18:00 G 29780395.16 29780395.25 29780395.33 0.2705 0.1945

Moon 76823-11-07 18:00 G 29780395.17 29780395.25 29780395.34 0.2698 0.2022 *

Saturn 76825-01-15 00:15 G 29780829.42 29780829.51 29780829.59 0.0287 0.0246

Saturn 76825-04-13 19:12 G 29780918.15 29780918.30 29780918.46 0.0287 0.0080

Saturn 76825-07-11 13:56 G 29781006.93 29781007.08 29781007.24 0.0287 0.0082

Saturn 76825-10-08 07:56 G 29781095.75 29781095.83 29781095.92 0.0286 0.0239

Moon 76826-05-07 10:34 G 29781306.81 29781306.94 29781307.06 0.2622 0.0454

Earth 76826-05-07 11:03 G 29781306.83 29781306.96 29781307.08 0.2627 0.0445 *

Mars 76826-10-22 18:44 G 29781475.16 29781475.28 29781475.40 0.1731 0.0307

Venus 76828-09-30 15:22 G 29782184.07 29782184.14 29782184.20 0.3656 0.3049

Jupiter 76828-11-24 08:53 G 29782238.74 29782238.87 29782239.00 0.0535 0.0293

Earth 76830-10-31 02:24 G 29782944.58 29782944.60 29782944.62 0.2706 0.2651

Moon 76830-10-31 03:08 G 29782944.59 29782944.63 29782944.67 0.2712 0.2546 *

Jupiter 76834-07-12 13:56 G 29784294.96 29784295.08 29784295.21 0.0493 0.0249

Jupiter 76834-10-09 23:32 G 29784384.40 29784384.48 29784384.56 0.0491 0.0406

Mars 76836-03-14 04:05 G 29784905.57 29784905.67 29784905.77 0.1725 0.0910

Mars 76837-01-26 15:22 G 29785224.04 29785224.14 29785224.24 0.1783 0.1305

Mars 76838-02-17 15:22 G 29785611.12 29785611.14 29785611.16 0.1751 0.1707

Moon 76839-05-10 07:27 G 29786057.72 29786057.81 29786057.91 0.2625 0.1747

Earth 76839-05-10 08:24 G 29786057.76 29786057.85 29786057.94 0.2628 0.1866 *

Saturn 76840-04-21 12:29 G 29786404.92 29786405.02 29786405.13 0.0272 0.0178

Saturn 76840-07-19 01:12 G 29786493.41 29786493.55 29786493.69 0.0272 0.0059

Jupiter 76840-09-12 08:39 G 29786548.83 29786548.86 29786548.90 0.0534 0.0519

Saturn 76840-10-15 14:10 G 29786581.95 29786582.09 29786582.23 0.0273 0.0063

Jupiter 76840-12-11 08:39 G 29786638.77 29786638.86 29786638.96 0.0537 0.0417

Saturn 76841-01-12 03:22 G 29786670.54 29786670.64 29786670.75 0.0273 0.0187

Earth 76843-11-03 01:41 G 29787695.45 29787695.57 29787695.69 0.2706 0.0960

Moon 76843-11-03 02:53 G 29787695.50 29787695.62 29787695.74 0.2705 0.0896 *

Mars 76845-08-04 13:56 G 29788336.02 29788336.08 29788336.13 0.1719 0.1495

Jupiter 76846-04-30 17:32 G 29788605.15 29788605.23 29788605.31 0.0494 0.0406

Earth 76846-05-02 22:05 G 29788607.34 29788607.42 29788607.50 0.2626 0.2005

Moon 76846-05-02 22:48 G 29788607.37 29788607.45 29788607.53 0.2622 0.1987 *

Mars 76846-06-18 15:22 G 29788653.99 29788654.14 29788654.30 0.1791 0.0270

Jupiter 76846-07-29 02:53 G 29788694.49 29788694.62 29788694.74 0.0492 0.0244

Mars 76847-07-11 00:15 G 29789041.41 29789041.51 29789041.61 0.1744 0.1039

Jupiter 76852-09-29 08:53 G 29790948.72 29790948.87 29790949.01 0.0536 0.0196

Uranus 76852-10-31 02:53 G 29790980.57 29790980.62 29790980.69 0.0144 0.0130

Uranus 76853-01-27 07:27 G 29791068.72 29791068.81 29791068.92 0.0144 0.0107

Uranus 76853-04-25 12:15 G 29791156.90 29791157.01 29791157.14 0.0144 0.0083

Uranus 76853-07-22 17:03 G 29791245.08 29791245.21 29791245.36 0.0144 0.0059

Uranus 76853-10-18 22:05 G 29791333.27 29791333.42 29791333.57 0.0144 0.0034

Uranus 76854-01-15 02:53 G 29791421.47 29791421.62 29791421.77 0.0144 0.0010

Uranus 76854-04-13 07:56 G 29791509.68 29791509.83 29791509.98 0.0144 0.0015

Uranus 76854-07-10 12:44 G 29791597.89 29791598.03 29791598.18 0.0144 0.0039

Saturn 76854-08-31 18:00 G 29791650.10 29791650.25 29791650.39 0.0287 0.0140

Uranus 76854-10-06 17:32 G 29791686.10 29791686.23 29791686.38 0.0143 0.0065

Saturn 76854-11-28 12:44 G 29791738.87 29791739.03 29791739.20 0.0287 0.0025

Uranus 76855-01-02 22:34 G 29791774.33 29791774.44 29791774.57 0.0143 0.0089

Saturn 76855-02-25 07:12 G 29791827.67 29791827.80 29791827.92 0.0287 0.0184

Uranus 76855-04-01 03:36 G 29791862.57 29791862.65 29791862.75 0.0143 0.0114

Uranus 76855-06-28 08:39 G 29791950.84 29791950.86 29791950.90 0.0143 0.0140

Mars 76855-11-08 15:22 G 29792084.00 29792084.14 29792084.28 0.1798 0.0807

Earth 76856-11-05 00:44 G 29792446.41 29792446.53 29792446.66 0.2705 0.0670

Moon 76856-11-05 01:41 G 29792446.44 29792446.57 29792446.69 0.2702 0.0847 *

Mars 76856-11-30 09:22 G 29792471.77 29792471.89 29792472.00 0.1738 0.0392

Jupiter 76858-05-17 05:17 G 29793004.58 29793004.72 29793004.87 0.0493 0.0072

Earth 76859-05-05 18:58 G 29793358.17 29793358.29 29793358.42 0.2627 0.0674

Moon 76859-05-05 19:12 G 29793358.18 29793358.30 29793358.43 0.2620 0.0576 *

Venus 76861-08-26 14:53 G 29794202.02 29794202.12 29794202.22 0.3717 0.2456

Jupiter 76864-07-18 08:24 G 29795258.69 29795258.85 29795259.01 0.0535 0.0038

Mars 76866-04-22 18:29 G 29795902.15 29795902.27 29795902.39 0.1731 0.0240

Venus 76867-03-12 14:10 G 29796225.99 29796226.09 29796226.19 0.3716 0.2347

Saturn 76869-09-08 15:51 G 29797137.07 29797137.16 29797137.26 0.0272 0.0201

Earth 76869-11-07 23:17 G 29797197.41 29797197.47 29797197.54 0.2705 0.2248

Moon 76869-11-07 23:32 G 29797197.41 29797197.48 29797197.56 0.2698 0.2169 *

Saturn 76869-12-06 04:34 G 29797225.55 29797225.69 29797225.83 0.0272 0.0082

Saturn 76870-03-04 17:32 G 29797314.08 29797314.23 29797314.37 0.0273 0.0039

Jupiter 76870-03-05 08:39 G 29797314.72 29797314.86 29797315.00 0.0493 0.0092

Saturn 76870-06-01 06:29 G 29797402.66 29797402.77 29797402.89 0.0273 0.0163

Moon 76872-05-07 15:36 G 29798109.03 29798109.15 29798109.28 0.2622 0.0574

Earth 76872-05-07 16:20 G 29798109.06 29798109.18 29798109.30 0.2627 0.0719 *

Venus 76874-04-08 01:12 G 29798809.46 29798809.55 29798809.64 0.3654 0.2002

Neptune 76874-06-02 23:46 G 29798865.45 29798865.49 29798865.54 0.0090 0.0085

Neptune 76874-08-30 02:10 G 29798953.51 29798953.59 29798953.69 0.0090 0.0076

Neptune 76874-11-26 04:34 G 29799041.59 29799041.69 29799041.81 0.0090 0.0067

Neptune 76875-02-22 07:12 G 29799129.68 29799129.80 29799129.93 0.0090 0.0057

Neptune 76875-05-21 09:36 G 29799217.77 29799217.90 29799218.05 0.0090 0.0048

Neptune 76875-08-17 12:00 G 29799305.86 29799306.00 29799306.16 0.0090 0.0039

Mars 76875-09-13 04:05 G 29799332.57 29799332.67 29799332.78 0.1725 0.0837

Neptune 76875-11-13 14:39 G 29799393.96 29799394.11 29799394.27 0.0090 0.0029

Neptune 76876-02-09 17:03 G 29799482.05 29799482.21 29799482.37 0.0090 0.0020

Jupiter 76876-05-06 06:58 G 29799568.66 29799568.79 29799568.92 0.0534 0.0289

Neptune 76876-05-07 19:27 G 29799570.15 29799570.31 29799570.47 0.0090 0.0011

Mars 76876-07-27 15:51 G 29799651.07 29799651.16 29799651.25 0.1783 0.1411

Neptune 76876-08-03 21:51 G 29799658.25 29799658.41 29799658.58 0.0090 0.0002

Neptune 76876-10-31 00:15 G 29799746.35 29799746.51 29799746.67 0.0090 0.0008

Earth 76876-10-31 07:56 G 29799746.77 29799746.83 29799746.90 0.2706 0.2332

Moon 76876-10-31 08:53 G 29799746.80 29799746.87 29799746.94 0.2710 0.2242 *

Neptune 76877-01-27 02:39 G 29799834.45 29799834.61 29799834.77 0.0090 0.0017

Neptune 76877-04-25 05:03 G 29799922.55 29799922.71 29799922.86 0.0090 0.0026

Neptune 76877-07-22 07:12 G 29800010.66 29800010.80 29800010.95 0.0090 0.0035

Neptune 76877-10-18 09:36 G 29800098.76 29800098.90 29800099.04 0.0090 0.0044

Neptune 76878-01-14 11:46 G 29800186.87 29800186.99 29800187.13 0.0090 0.0053

Neptune 76878-04-12 14:10 G 29800274.98 29800275.09 29800275.21 0.0090 0.0062

Neptune 76878-07-09 16:20 G 29800363.09 29800363.18 29800363.29 0.0090 0.0071

Neptune 76878-10-05 18:29 G 29800451.22 29800451.27 29800451.36 0.0090 0.0080

Neptune 76879-01-01 21:08 G 29800539.36 29800539.38 29800539.41 0.0090 0.0088

Venus 76879-10-22 19:12 G 29800833.19 29800833.30 29800833.41 0.3655 0.1057

Jupiter 76881-12-22 12:15 G 29801624.89 29801625.01 29801625.13 0.0494 0.0247

Jupiter 76882-03-21 21:51 G 29801714.33 29801714.41 29801714.49 0.0491 0.0409

Saturn 76884-01-18 19:12 G 29802382.17 29802382.30 29802382.43 0.0287 0.0175

Saturn 76884-04-16 14:10 G 29802470.93 29802471.09 29802471.26 0.0287 0.0012

Saturn 76884-07-14 08:39 G 29802559.72 29802559.86 29802560.00 0.0286 0.0149

Mars 76885-02-02 13:41 G 29802763.01 29802763.07 29802763.14 0.1719 0.1422

Moon 76885-05-10 12:58 G 29802859.96 29802860.04 29802860.11 0.2626 0.2084

Earth 76885-05-10 13:56 G 29802860.00 29802860.08 29802860.15 0.2628 0.2144 *

Mars 76885-12-17 16:20 G 29803081.02 29803081.18 29803081.33 0.1790 0.0394

Mars 76887-01-09 00:15 G 29803468.42 29803468.51 29803468.60 0.1744 0.1113

Jupiter 76888-02-23 06:15 G 29803878.74 29803878.76 29803878.79 0.0534 0.0525

Jupiter 76888-05-23 06:15 G 29803968.67 29803968.76 29803968.86 0.0536 0.0411

Earth 76889-11-03 07:12 G 29804497.68 29804497.80 29804497.93 0.2706 0.0653

Moon 76889-11-03 08:24 G 29804497.72 29804497.85 29804497.98 0.2705 0.0476 *

Earth 76892-05-03 03:22 G 29805409.55 29805409.64 29805409.73 0.2626 0.1747

Moon 76892-05-03 03:51 G 29805409.57 29805409.66 29805409.76 0.2621 0.1639 *

Jupiter 76893-10-10 15:36 G 29805935.08 29805935.15 29805935.24 0.0494 0.0404

Jupiter 76894-01-08 00:58 G 29806024.42 29806024.54 29806024.67 0.0492 0.0247

Mars 76895-05-09 15:51 G 29806511.02 29806511.16 29806511.31 0.1798 0.0692

Uranus 76895-05-16 17:17 G 29806518.19 29806518.22 29806518.26 0.0134 0.0132

Uranus 76895-08-12 22:20 G 29806606.35 29806606.43 29806606.53 0.0134 0.0110

Uranus 76895-11-09 03:22 G 29806694.53 29806694.64 29806694.78 0.0134 0.0088

Uranus 76896-02-05 08:24 G 29806782.72 29806782.85 29806783.01 0.0134 0.0066

Uranus 76896-05-03 13:41 G 29806870.92 29806871.07 29806871.23 0.0135 0.0043

Mars 76896-05-31 09:22 G 29806898.77 29806898.89 29806899.01 0.1738 0.0467

Uranus 76896-07-30 18:44 G 29806959.12 29806959.28 29806959.44 0.0135 0.0021

Uranus 76896-10-26 23:46 G 29807047.33 29807047.49 29807047.65 0.0135 0.0001

Uranus 76897-01-23 04:34 G 29807135.54 29807135.69 29807135.86 0.0135 0.0023

Uranus 76897-04-21 09:36 G 29807223.75 29807223.90 29807224.05 0.0135 0.0044

Uranus 76897-07-18 14:24 G 29807311.96 29807312.10 29807312.24 0.0135 0.0065

Uranus 76897-10-14 19:12 G 29807400.18 29807400.30 29807400.43 0.0135 0.0086

Uranus 76898-01-11 00:00 G 29807488.41 29807488.50 29807488.60 0.0135 0.0107

Uranus 76898-04-09 04:34 G 29807576.65 29807576.69 29807576.75 0.0135 0.0128

Saturn 76899-01-26 17:17 G 29807869.16 29807869.22 29807869.29 0.0272 0.0239

Saturn 76899-04-25 05:46 G 29807957.62 29807957.74 29807957.87 0.0272 0.0122

Saturn 76899-07-22 18:44 G 29808046.13 29808046.28 29808046.42 0.0273 0.0006

Saturn 76899-10-19 07:41 G 29808134.69 29808134.82 29808134.95 0.0273 0.0121

Saturn 76900-01-15 20:53 G 29808223.31 29808223.37 29808223.44 0.0273 0.0247

Jupiter 76900-03-12 06:44 G 29808278.63 29808278.78 29808278.92 0.0536 0.0192

Earth 76902-11-07 06:15 G 29809248.64 29809248.76 29809248.88 0.2705 0.0976

Moon 76902-11-07 06:58 G 29809248.67 29809248.79 29809248.91 0.2700 0.0975 *

Pluto 76904-08-15 10:48 G 29809895.95 29809895.95 29809896.00 0.0081 0.0080

Pluto 76904-11-11 12:29 G 29809983.93 29809984.02 29809984.14 0.0081 0.0059

Pluto 76905-02-07 14:24 G 29810071.97 29810072.10 29810072.24 0.0081 0.0037

Pluto 76905-05-06 16:05 G 29810160.02 29810160.17 29810160.33 0.0081 0.0016

Moon 76905-05-07 00:15 G 29810160.39 29810160.51 29810160.64 0.2621 0.0473

Earth 76905-05-07 00:29 G 29810160.39 29810160.52 29810160.64 0.2627 0.0407 *

Pluto 76905-08-02 17:46 G 29810248.09 29810248.24 29810248.40 0.0080 0.0005

Mars 76905-10-22 18:29 G 29810329.15 29810329.27 29810329.40 0.1731 0.0174

Jupiter 76905-10-28 04:20 G 29810334.54 29810334.68 29810334.82 0.0492 0.0085

Pluto 76905-10-29 19:12 G 29810336.16 29810336.30 29810336.46 0.0080 0.0026

Pluto 76906-01-25 20:53 G 29810424.25 29810424.37 29810424.50 0.0080 0.0046

Pluto 76906-04-23 22:20 G 29810512.36 29810512.43 29810512.53 0.0080 0.0067

Jupiter 76911-12-30 06:44 G 29812588.62 29812588.78 29812588.94 0.0535 0.0030

Saturn 76913-06-07 17:46 G 29813114.15 29813114.24 29813114.33 0.0288 0.0236

Saturn 76913-09-04 12:58 G 29813202.88 29813203.04 29813203.20 0.0287 0.0069

Saturn 76913-12-02 07:41 G 29813291.66 29813291.82 29813291.97 0.0287 0.0093

Saturn 76914-03-01 01:41 G 29813380.50 29813380.57 29813380.65 0.0286 0.0250

Mars 76915-03-15 04:05 G 29813759.56 29813759.67 29813759.78 0.1725 0.0767

Earth 76915-11-10 04:48 G 29813999.66 29813999.70 29813999.74 0.2705 0.2538

Moon 76915-11-10 04:48 G 29813999.68 29813999.70 29813999.73 0.2698 0.2616 *

Mars 76916-01-27 16:20 G 29814078.11 29814078.18 29814078.26 0.1783 0.1523

Jupiter 76917-08-16 06:58 G 29814644.65 29814644.79 29814644.93 0.0493 0.0089

Venus 76918-04-03 14:24 G 29814874.97 29814875.10 29814875.23 0.3717 0.0721

Moon 76918-05-09 20:53 G 29814911.25 29814911.37 29814911.49 0.2622 0.0989

Earth 76918-05-09 21:36 G 29814911.28 29814911.40 29814911.52 0.2627 0.0987 *

Earth 76922-11-02 13:41 G 29816548.98 29816549.07 29816549.15 0.2706 0.2011

Moon 76922-11-02 14:39 G 29816549.02 29816549.11 29816549.20 0.2709 0.1939 *

Jupiter 76923-10-18 06:00 G 29816898.62 29816898.75 29816898.89 0.0534 0.0266

Mars 76924-08-04 13:41 G 29817190.00 29817190.07 29817190.14 0.1719 0.1352

Mars 76925-06-18 16:48 G 29817508.05 29817508.20 29817508.35 0.1790 0.0512

Mars 76926-07-11 00:15 G 29817895.42 29817895.51 29817895.60 0.1744 0.1182

Saturn 76928-06-15 20:39 G 29818601.33 29818601.36 29818601.40 0.0272 0.0261

Saturn 76928-09-12 09:08 G 29818689.76 29818689.88 29818690.00 0.0272 0.0144

Saturn 76928-12-09 21:51 G 29818778.27 29818778.41 29818778.56 0.0272 0.0026

Saturn 76929-03-08 10:48 G 29818866.82 29818866.95 29818867.09 0.0273 0.0098

Jupiter 76929-06-04 10:05 G 29818954.80 29818954.92 29818955.05 0.0494 0.0251

Saturn 76929-06-05 00:00 G 29818955.42 29818955.50 29818955.59 0.0273 0.0223

Jupiter 76929-09-01 19:56 G 29819044.25 29819044.33 29819044.41 0.0492 0.0406

Venus 76930-11-13 23:17 G 29819482.36 29819482.47 29819482.58 0.3654 0.0877

Moon 76931-05-12 18:15 G 29819662.19 29819662.26 29819662.32 0.2628 0.2249

Earth 76931-05-12 19:12 G 29819662.25 29819662.30 29819662.35 0.2628 0.2423 *

Mars 76934-11-08 16:20 G 29820938.04 29820938.18 29820938.33 0.1798 0.0577

Jupiter 76935-08-06 04:20 G 29821208.65 29821208.68 29821208.71 0.0533 0.0523

Jupiter 76935-11-04 04:20 G 29821298.58 29821298.68 29821298.78 0.0536 0.0411

Earth 76935-11-05 12:44 G 29821299.90 29821300.03 29821300.16 0.2706 0.0343

Moon 76935-11-05 13:56 G 29821299.95 29821300.08 29821300.21 0.2705 0.0252 *

Mars 76935-12-01 09:22 G 29821325.77 29821325.89 29821326.00 0.1738 0.0540

Venus 76936-05-29 17:17 G 29821506.13 29821506.22 29821506.31 0.3656 0.2221

Uranus 76936-11-21 09:51 G 29821681.85 29821681.91 29821681.99 0.0144 0.0124

Uranus 76937-02-17 14:39 G 29821770.01 29821770.11 29821770.22 0.0144 0.0100

Uranus 76937-05-16 19:27 G 29821858.19 29821858.31 29821858.44 0.0144 0.0076

Uranus 76937-08-13 00:15 G 29821946.37 29821946.51 29821946.65 0.0144 0.0052

Uranus 76937-11-09 05:03 G 29822034.57 29822034.71 29822034.86 0.0144 0.0028

Uranus 76938-02-05 10:05 G 29822122.77 29822122.92 29822123.07 0.0144 0.0004

Uranus 76938-05-04 14:53 G 29822210.97 29822211.12 29822211.27 0.0144 0.0021

Earth 76938-05-05 08:39 G 29822211.75 29822211.86 29822211.96 0.2626 0.1492

Moon 76938-05-05 09:08 G 29822211.78 29822211.88 29822211.99 0.2621 0.1454 *

Uranus 76938-07-31 19:56 G 29822299.18 29822299.33 29822299.47 0.0143 0.0046

Uranus 76938-10-28 00:44 G 29822387.40 29822387.53 29822387.67 0.0143 0.0071

Uranus 76939-01-24 05:46 G 29822475.63 29822475.74 29822475.86 0.0143 0.0096

Uranus 76939-04-22 10:34 G 29822563.88 29822563.94 29822564.04 0.0143 0.0122

Jupiter 76941-03-23 13:41 G 29823265.00 29823265.07 29823265.16 0.0494 0.0406

Jupiter 76941-06-20 23:03 G 29823354.34 29823354.46 29823354.59 0.0492 0.0247

Saturn 76942-10-25 19:27 G 29823846.26 29823846.31 29823846.38 0.0288 0.0267

Saturn 76943-01-22 14:53 G 29823934.96 29823935.12 29823935.27 0.0287 0.0100

Saturn 76943-04-21 09:36 G 29824023.74 29824023.90 29824024.06 0.0287 0.0063

Saturn 76943-07-19 03:51 G 29824112.56 29824112.66 29824112.76 0.0286 0.0220

Mars 76944-03-30 15:36 G 29824368.10 29824368.15 29824368.20 0.1805 0.1696

Mars 76945-04-22 18:44 G 29824756.16 29824756.28 29824756.40 0.1731 0.0097

Jupiter 76947-08-23 04:05 G 29825608.52 29825608.67 29825608.82 0.0536 0.0182

Earth 76948-11-07 11:46 G 29826050.87 29826050.99 29826051.10 0.2705 0.1275

Moon 76948-11-07 12:15 G 29826050.90 29826051.01 29826051.12 0.2699 0.1381 *

Moon 76951-05-08 05:17 G 29826962.60 29826962.72 29826962.85 0.2621 0.0141

Earth 76951-05-08 05:46 G 29826962.61 29826962.74 29826962.86 0.2627 0.0160 *

Jupiter 76953-04-09 02:24 G 29827664.46 29827664.60 29827664.75 0.0492 0.0085

Mars 76954-09-13 04:05 G 29828186.56 29828186.67 29828186.78 0.1725 0.0693

Mars 76955-07-28 16:48 G 29828505.15 29828505.20 29828505.27 0.1783 0.1635

Neptune 76956-08-22 04:20 G 29828895.68 29828895.68 29828895.72 0.0088 0.0087

Neptune 76956-11-18 06:15 G 29828983.71 29828983.76 29828983.84 0.0088 0.0079

Neptune 76957-02-14 08:10 G 29829071.76 29829071.84 29829071.94 0.0088 0.0071

Neptune 76957-05-13 10:20 G 29829159.82 29829159.93 29829160.03 0.0088 0.0063

Neptune 76957-08-09 11:46 G 29829247.89 29829247.99 29829248.12 0.0088 0.0056

Neptune 76957-11-05 13:41 G 29829335.95 29829336.07 29829336.21 0.0088 0.0048

Saturn 76958-01-30 10:48 G 29829421.85 29829421.95 29829422.06 0.0272 0.0180

Neptune 76958-02-01 15:36 G 29829424.02 29829424.15 29829424.29 0.0088 0.0040

Saturn 76958-04-28 23:32 G 29829510.34 29829510.48 29829510.62 0.0272 0.0062

Neptune 76958-04-30 17:32 G 29829512.09 29829512.23 29829512.38 0.0088 0.0032

Saturn 76958-07-26 12:29 G 29829598.87 29829599.02 29829599.16 0.0273 0.0060

Neptune 76958-07-27 19:27 G 29829600.17 29829600.31 29829600.46 0.0088 0.0024

Saturn 76958-10-23 01:27 G 29829687.46 29829687.56 29829687.67 0.0273 0.0184

Neptune 76958-10-23 21:22 G 29829688.24 29829688.39 29829688.54 0.0088 0.0016

Neptune 76959-01-19 23:17 G 29829776.32 29829776.47 29829776.62 0.0088 0.0008

Neptune 76959-04-18 01:12 G 29829864.40 29829864.55 29829864.70 0.0088 0.0000

Jupiter 76959-06-11 04:05 G 29829918.51 29829918.67 29829918.83 0.0535 0.0041

Neptune 76959-07-15 03:08 G 29829952.48 29829952.63 29829952.78 0.0088 0.0008

Neptune 76959-10-11 04:48 G 29830040.56 29830040.70 29830040.86 0.0088 0.0017

Neptune 76960-01-07 06:44 G 29830128.64 29830128.78 29830128.94 0.0088 0.0025

Neptune 76960-04-04 08:39 G 29830216.73 29830216.86 29830217.01 0.0088 0.0033

Neptune 76960-07-01 10:34 G 29830304.82 29830304.94 29830305.09 0.0088 0.0041

Neptune 76960-09-27 12:44 G 29830392.91 29830393.03 29830393.16 0.0088 0.0049

Neptune 76960-12-24 14:39 G 29830481.00 29830481.11 29830481.23 0.0088 0.0057

Neptune 76961-03-22 16:20 G 29830569.10 29830569.18 29830569.30 0.0088 0.0066

Neptune 76961-06-18 18:29 G 29830657.20 29830657.27 29830657.36 0.0088 0.0074

Neptune 76961-09-14 20:24 G 29830745.31 29830745.35 29830745.42 0.0088 0.0082

Mars 76964-02-03 13:41 G 29831616.99 29831617.07 29831617.15 0.1719 0.1280

Moon 76964-05-10 02:10 G 29831713.48 29831713.59 29831713.71 0.2623 0.1108

Earth 76964-05-10 02:53 G 29831713.51 29831713.62 29831713.74 0.2627 0.1267 *

Mars 76964-12-17 17:17 G 29831935.07 29831935.22 29831935.36 0.1791 0.0613

Jupiter 76965-01-26 05:46 G 29831974.60 29831974.74 29831974.88 0.0493 0.0076

Mars 76966-01-09 00:15 G 29832322.42 29832322.51 29832322.59 0.1744 0.1256

Earth 76968-11-02 19:12 G 29833351.20 29833351.30 29833351.40 0.2706 0.1695

Moon 76968-11-02 20:10 G 29833351.24 29833351.34 29833351.45 0.2708 0.1513 *

Jupiter 76971-03-30 04:05 G 29834228.53 29834228.67 29834228.81 0.0534 0.0264

Earth 76971-05-03 17:03 G 29834263.18 29834263.21 29834263.24 0.2626 0.2547

Moon 76971-05-03 17:46 G 29834263.20 29834263.24 29834263.29 0.2623 0.2410 *

Saturn 76972-06-10 13:27 G 29834666.93 29834667.06 29834667.20 0.0287 0.0159

Saturn 76972-09-07 08:39 G 29834755.69 29834755.86 29834756.02 0.0287 0.0010

Saturn 76972-12-05 02:53 G 29834844.49 29834844.62 29834844.76 0.0287 0.0166

Mars 76974-05-09 17:17 G 29835365.06 29835365.22 29835365.37 0.1798 0.0452

Venus 76974-11-08 13:56 G 29835547.96 29835548.08 29835548.20 0.3717 0.1012

Mars 76975-06-01 09:22 G 29835752.77 29835752.89 29835753.00 0.1737 0.0611

Jupiter 76976-11-14 08:24 G 29836284.73 29836284.85 29836284.97 0.0494 0.0249

Jupiter 76977-02-11 18:00 G 29836374.17 29836374.25 29836374.33 0.0492 0.0407

Uranus 76979-06-07 00:00 G 29837219.45 29837219.50 29837219.57 0.0134 0.0126

Uranus 76979-09-03 05:17 G 29837307.62 29837307.72 29837307.83 0.0134 0.0103

Uranus 76979-11-30 10:34 G 29837395.81 29837395.94 29837396.07 0.0134 0.0081

Uranus 76980-02-26 15:36 G 29837484.00 29837484.15 29837484.30 0.0134 0.0059

Uranus 76980-05-24 20:39 G 29837572.20 29837572.36 29837572.52 0.0134 0.0037

Uranus 76980-08-21 01:41 G 29837660.41 29837660.57 29837660.73 0.0135 0.0015

Uranus 76980-11-17 06:44 G 29837748.62 29837748.78 29837748.94 0.0135 0.0007

Uranus 76981-02-13 11:32 G 29837836.83 29837836.98 29837837.14 0.0135 0.0029

Uranus 76981-05-12 16:34 G 29837925.04 29837925.19 29837925.34 0.0135 0.0050

Uranus 76981-08-08 21:22 G 29838013.26 29838013.39 29838013.53 0.0135 0.0071

Uranus 76981-11-05 01:56 G 29838101.48 29838101.58 29838101.71 0.0135 0.0093

Earth 76981-11-05 18:15 G 29838102.13 29838102.26 29838102.39 0.2706 0.0096

Moon 76981-11-05 19:27 G 29838102.18 29838102.31 29838102.44 0.2704 0.0113 *

Venus 76981-12-05 03:22 G 29838131.57 29838131.64 29838131.71 0.3653 0.2754

Uranus 76982-02-01 06:44 G 29838189.71 29838189.78 29838189.88 0.0135 0.0114

Uranus 76982-04-30 11:46 G 29838277.98 29838277.99 29838278.00 0.0135 0.0134

Jupiter 76983-01-16 03:22 G 29838538.59 29838538.64 29838538.69 0.0533 0.0502

Jupiter 76983-04-16 03:22 G 29838628.55 29838628.64 29838628.73 0.0536 0.0432

Mars 76983-09-29 16:20 G 29838795.10 29838795.18 29838795.25 0.1805 0.1577

Earth 76984-05-05 13:56 G 29839013.97 29839014.08 29839014.19 0.2627 0.1227

Moon 76984-05-05 14:24 G 29839013.98 29839014.10 29839014.21 0.2621 0.1169 *

Mars 76984-10-21 18:29 G 29839183.15 29839183.27 29839183.39 0.1731 0.0021

Saturn 76987-06-19 13:56 G 29840153.99 29840154.08 29840154.18 0.0272 0.0204

Venus 76987-06-20 21:08 G 29840155.27 29840155.38 29840155.50 0.3655 0.0301

Saturn	**76987-09-16 02:39**	**G**	**29840242.47**	**29840242.61**	**29840242.75**	**0.0272**	**0.0086**	
Saturn	**76987-12-13 15:36**	**G**	**29840331.00**	**29840331.15**	**29840331.29**	**0.0273**	**0.0036**	
Saturn	**76988-03-11 04:34**	**G**	**29840419.57**	**29840419.69**	**29840419.81**	**0.0273**	**0.0159**	
Jupiter	**76988-09-02 11:46**	**G**	**29840594.91**	**29840594.99**	**29840595.07**	**0.0495**	**0.0410**	
Jupiter	**76988-11-30 21:08**	**G**	**29840684.25**	**29840684.38**	**29840684.50**	**0.0492**	**0.0241**	
Venus	**76993-01-03 15:22**	**G**	**29842179.10**	**29842179.14**	**29842179.18**	**0.3656**	**0.3397**	
Mars	**76994-03-14 04:05**	**G**	**29842613.56**	**29842613.67**	**29842613.78**	**0.1725**	**0.0619**	
Earth	**76994-11-08 17:17**	**G**	**29842853.11**	**29842853.22**	**29842853.32**	**0.2705**	**0.1579**	
Moon	**76994-11-08 17:46**	**G**	**29842853.13**	**29842853.24**	**29842853.34**	**0.2698**	**0.1583**	*****
Mars	**76995-01-26 17:32**	**G**	**29842932.20**	**29842932.23**	**29842932.26**	**0.1783**	**0.1743**	
Jupiter	**76995-02-02 01:56**	**G**	**29842938.44**	**29842938.58**	**29842938.73**	**0.0535**	**0.0182**	
Moon	**76997-05-08 10:34**	**G**	**29843764.81**	**29843764.94**	**29843765.07**	**0.2620**	**0.0058**	
Earth	**76997-05-08 11:03**	**G**	**29843764.83**	**29843764.96**	**29843765.08**	**0.2627**	**0.0159**	*****
Jupiter	**77000-09-20 00:29**	**G**	**29844994.38**	**29844994.52**	**29844994.66**	**0.0493**	**0.0083**	

78TH MILLENNIUM CE

This is a list of transits of Mercury in the 78th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	**77001-10-29 15:51**	**G**	**29845399.04**	**29845399.16**	**29845399.29**	**0.0288**	**0.0186**	
Saturn	**77002-01-26 11:03**	**G**	**29845487.79**	**29845487.96**	**29845488.12**	**0.0287**	**0.0020**	
Saturn	**77002-04-25 05:32**	**G**	**29845576.59**	**29845576.73**	**29845576.87**	**0.0287**	**0.0140**	
Mars	**77003-08-05 13:41**	**G**	**29846043.99**	**29846044.07**	**29846044.15**	**0.1719**	**0.1206**	
Mars	**77004-06-18 17:46**	**G**	**29846362.10**	**29846362.24**	**29846362.39**	**0.1791**	**0.0732**	

Mars 77005-07-11 00:15 G 29846749.44 29846749.51 29846749.59 0.1744 0.1335

Jupiter 77006-11-22 01:27 G 29847248.40 29847248.56 29847248.72 0.0535 0.0053

Moon 77010-05-12 07:27 G 29848515.70 29848515.81 29848515.91 0.2625 0.1503

Earth 77010-05-12 08:10 G 29848515.74 29848515.84 29848515.95 0.2627 0.1536 *

Jupiter 77012-07-09 03:51 G 29849304.52 29849304.66 29849304.80 0.0493 0.0077

Mars 77013-11-08 17:32 G 29849792.08 29849792.23 29849792.39 0.1798 0.0342

Earth 77014-11-05 00:44 G 29850153.42 29850153.53 29850153.64 0.2706 0.1377

Moon 77014-11-05 01:56 G 29850153.46 29850153.58 29850153.69 0.2708 0.1330 *

Mars 77014-12-01 09:22 G 29850179.77 29850179.89 29850180.00 0.1737 0.0685

Saturn 77016-11-06 16:05 G 29850886.11 29850886.17 29850886.24 0.0272 0.0236

Saturn 77017-02-03 04:34 G 29850974.57 29850974.69 29850974.82 0.0272 0.0120

Saturn 77017-05-02 17:32 G 29851063.08 29851063.23 29851063.37 0.0273 0.0008

Earth 77017-05-04 22:20 G 29851065.37 29851065.43 29851065.49 0.2626 0.2289

Moon 77017-05-04 23:03 G 29851065.40 29851065.46 29851065.53 0.2622 0.2260 *

Saturn 77017-07-30 06:29 G 29851151.64 29851151.77 29851151.90 0.0273 0.0123

Saturn 77017-10-26 19:41 G 29851240.26 29851240.32 29851240.38 0.0273 0.0249

Jupiter 77018-09-10 01:12 G 29851558.42 29851558.55 29851558.69 0.0534 0.0281

Uranus 77020-09-15 12:00 G 29852294.99 29852295.00 29852295.03 0.0144 0.0142

Uranus 77020-12-12 16:34 G 29852383.12 29852383.19 29852383.29 0.0144 0.0119

Uranus 77021-03-10 21:22 G 29852471.29 29852471.39 29852471.51 0.0144 0.0095

Uranus 77021-06-07 02:10 G 29852559.47 29852559.59 29852559.73 0.0144 0.0071

Uranus 77021-09-03 07:12 G 29852647.66 29852647.80 29852647.94 0.0144 0.0047

Uranus 77021-11-30 12:00 G 29852735.85 29852736.00 29852736.15 0.0144 0.0022

Uranus 77022-02-26 16:48 G 29852824.05 29852824.20 29852824.35 0.0144 0.0003

Uranus 77022-05-25 21:51 G 29852912.26 29852912.41 29852912.56 0.0143 0.0027

Uranus 77022-08-22 02:39 G 29853000.47 29853000.61 29853000.75 0.0143 0.0051

Uranus 77022-11-18 07:41 G 29853088.69 29853088.82 29853088.95 0.0143 0.0076

Uranus 77023-02-14 12:29 G 29853176.92 29853177.02 29853177.14 0.0143 0.0102

Mars 77023-03-31 16:48 G 29853222.11 29853222.20 29853222.29 0.1805 0.1459

Uranus 77023-05-13 17:46 G 29853265.17 29853265.24 29853265.31 0.0143 0.0127

Mars 77024-04-22 18:29 G 29853610.15 29853610.27 29853610.40 0.1731 0.0088

Jupiter 77024-04-27 07:12 G 29853614.68 29853614.80 29853614.93 0.0494 0.0237

Jupiter 77024-07-25 16:48 G 29853704.13 29853704.20 29853704.27 0.0491 0.0418

Venus 77025-11-30 13:56 G 29854196.97 29854197.08 29854197.18 0.3718 0.2129

Earth 77027-11-07 23:46 G 29854904.37 29854904.49 29854904.62 0.2706 0.0290

Moon 77027-11-08 00:44 G 29854904.40 29854904.53 29854904.66 0.2702 0.0408 *

Earth 77030-05-07 19:12 G 29855816.18 29855816.30 29855816.41 0.2627 0.0968

Moon 77030-05-07 19:27 G 29855816.19 29855816.31 29855816.43 0.2621 0.0916 *

Jupiter 77030-06-29 01:12 G 29855868.50 29855868.55 29855868.60 0.0533 0.0505

Jupiter 77030-09-27 01:12 G 29855958.46 29855958.55 29855958.64 0.0536 0.0432

Saturn 77031-03-18 14:24 G 29856131.02 29856131.10 29856131.19 0.0287 0.0245

Saturn 77031-06-15 09:36 G 29856219.75 29856219.90 29856220.06 0.0287 0.0079

Venus 77031-06-16 13:27 G 29856220.97 29856221.06 29856221.14 0.3716 0.2703

Saturn 77031-09-12 04:34 G 29856308.53 29856308.69 29856308.84 0.0287 0.0084

Saturn 77031-12-09 22:34 G 29856397.36 29856397.44 29856397.53 0.0286 0.0241

Mars 77033-09-13 04:05 G 29857040.55 29857040.67 29857040.78 0.1725 0.0556

Jupiter 77036-02-14 09:51 G 29857924.84 29857924.91 29857924.99 0.0494 0.0410

Jupiter 77036-05-13 19:12 G 29858014.18 29858014.30 29858014.43 0.0492 0.0242

Venus 77038-07-13 01:27 G 29858804.46 29858804.56 29858804.66 0.3654 0.1647

Neptune 77038-12-03 20:10 G 29858948.34 29858948.34 29858948.38 0.0090 0.0089

Neptune 77039-03-01 23:03 G 29859036.39 29859036.46 29859036.54 0.0090 0.0079

Neptune 77039-05-29 01:27 G 29859124.46 29859124.56 29859124.67 0.0090 0.0070

Neptune 77039-08-25 03:51 G 29859212.55 29859212.66 29859212.79 0.0090 0.0061

Neptune 77039-11-21 06:29 G 29859300.64 29859300.77 29859300.91 0.0090 0.0051

Neptune 77040-02-17 08:53 G 29859388.73 29859388.87 29859389.02 0.0090 0.0042

Neptune 77040-05-15 11:17 G 29859476.82 29859476.97 29859477.13 0.0090 0.0033

Neptune 77040-08-11 13:56 G 29859564.92 29859565.08 29859565.24 0.0090 0.0023

Neptune 77040-11-07 16:20 G 29859653.02 29859653.18 29859653.34 0.0090 0.0014

Earth 77040-11-09 22:48 G 29859655.36 29859655.45 29859655.54 0.2705 0.1880

Moon 77040-11-09 23:03 G 29859655.37 29859655.46 29859655.55 0.2699 0.1939 *

Neptune 77041-02-03 18:44 G 29859741.12 29859741.28 29859741.44 0.0090 0.0005

Neptune 77041-05-02 21:08 G 29859829.22 29859829.38 29859829.54 0.0090 0.0004

Neptune 77041-07-29 23:32 G 29859917.32 29859917.48 29859917.64 0.0090 0.0014

Neptune 77041-10-26 01:56 G 29860005.42 29860005.58 29860005.74 0.0090 0.0023

Neptune 77042-01-22 04:05 G 29860093.53 29860093.67 29860093.83 0.0090 0.0032

Neptune 77042-04-20 06:29 G 29860181.63 29860181.77 29860181.92 0.0090 0.0041

Jupiter 77042-07-16 00:58 G 29860268.39 29860268.54 29860268.68 0.0535 0.0201

Neptune 77042-07-17 08:39 G 29860269.74 29860269.86 29860270.01 0.0090 0.0050

Neptune 77042-10-13 11:03 G 29860357.85 29860357.96 29860358.09 0.0090 0.0059

Neptune 77043-01-09 13:12 G 29860445.96 29860446.05 29860446.17 0.0090 0.0068

Mars 77043-02-03 13:41 G 29860470.98 29860471.07 29860471.16 0.1719 0.1139

Neptune 77043-04-07 15:36 G 29860534.08 29860534.15 29860534.24 0.0090 0.0077

Moon 77043-05-10 15:51 G 29860567.03 29860567.16 29860567.29 0.2621 0.0376

Earth 77043-05-10 16:20 G 29860567.05 29860567.18 29860567.30 0.2627 0.0408 *

Neptune 77043-07-04 17:46 G 29860622.21 29860622.24 29860622.30 0.0090 0.0086

Mars 77043-12-18 18:29 G 29860789.14 29860789.27 29860789.41 0.1790 0.0852

Venus 77044-01-26 19:12 G 29860828.20 29860828.30 29860828.41 0.3655 0.1397

Mars 77045-01-09 00:15 G 29861176.43 29861176.51 29861176.58 0.1744 0.1399

Saturn 77046-03-26 19:12 G 29861618.26 29861618.30 29861618.34 0.0272 0.0261

Saturn 77046-06-23 07:27 G 29861706.70 29861706.81 29861706.94 0.0272 0.0146

Saturn 77046-09-19 20:24 G 29861795.20 29861795.35 29861795.49 0.0272 0.0026

Saturn 77046-12-17 09:22 G 29861883.75 29861883.89 29861884.02 0.0273 0.0097

Saturn 77047-03-15 22:34 G 29861972.36 29861972.44 29861972.53 0.0273 0.0222

Jupiter 77048-03-01 22:20 G 29862324.29 29862324.43 29862324.57 0.0493 0.0077

Mars 77052-06-25 23:32 G 29863901.47 29863901.48 29863901.49 0.1713 0.1701

Mars 77053-05-09 18:15 G 29864219.11 29864219.26 29864219.42 0.1798 0.0220

Jupiter 77054-05-03 23:17 G 29864578.32 29864578.47 29864578.63 0.0535 0.0055

Mars 77054-06-01 09:22 G 29864606.78 29864606.89 29864607.00 0.1738 0.0759

Moon 77056-05-12 12:44 G 29865317.93 29865318.03 29865318.13 0.2626 0.1668

Earth 77056-05-12 13:41 G 29865317.98 29865318.07 29865318.16 0.2627 0.1816 *

Jupiter 77059-12-20 01:56 G 29866634.43 29866634.58 29866634.72 0.0493 0.0082

Saturn 77060-08-04 17:03 G 29866863.16 29866863.21 29866863.27 0.0288 0.0270

Saturn 77060-11-01 12:29 G 29866951.86 29866952.02 29866952.17 0.0287 0.0103

Earth 77060-11-05 06:15 G 29866955.64 29866955.76 29866955.88 0.2706 0.1064

Moon 77060-11-05 07:12 G 29866955.68 29866955.80 29866955.93 0.2708 0.0870 *

Saturn 77061-01-29 07:12 G 29867040.64 29867040.80 29867040.96 0.0287 0.0060

Pluto 77061-01-31 20:53 G 29867043.29 29867043.37 29867043.46 0.0063 0.0054

Saturn 77061-04-28 01:27 G 29867129.46 29867129.56 29867129.67 0.0287 0.0218

Pluto 77061-04-29 21:22 G 29867131.29 29867131.39 29867131.53 0.0063 0.0044

Pluto 77061-07-26 22:34 G 29867219.31 29867219.44 29867219.58 0.0064 0.0033

Pluto 77061-10-22 23:32 G 29867307.33 29867307.48 29867307.63 0.0064 0.0022

Pluto 77062-01-19 00:29 G 29867395.36 29867395.52 29867395.68 0.0064 0.0011

Pluto 77062-04-17 01:12 G 29867483.39 29867483.55 29867483.71 0.0064 0.0001

Pluto 77062-07-14 01:56 G 29867571.43 29867571.58 29867571.75 0.0064 0.0011

Mars 77062-09-29 17:32 G 29867649.12 29867649.23 29867649.33 0.1805 0.1333

Pluto 77062-10-10 02:53 G 29867659.47 29867659.62 29867659.78 0.0064 0.0021

Pluto 77063-01-06 03:36 G 29867747.52 29867747.65 29867747.80 0.0064 0.0032

Pluto 77063-04-04 04:20 G 29867835.58 29867835.68 29867835.81 0.0064 0.0043

Earth 77063-05-06 03:36 G 29867867.57 29867867.65 29867867.73 0.2626 0.2035

Moon 77063-05-06 04:20 G 29867867.59 29867867.68 29867867.77 0.2623 0.1880 *

Uranus 77063-06-28 07:12 G 29867920.73 29867920.80 29867920.88 0.0134 0.0119

Pluto 77063-07-01 05:03 G 29867923.65 29867923.71 29867923.82 0.0064 0.0055

Uranus 77063-09-24 12:15 G 29868008.91 29868009.01 29868009.13 0.0134 0.0097

Mars 77063-10-22 18:29 G 29868037.15 29868037.27 29868037.39 0.1731 0.0140

Uranus 77063-12-21 17:32 G 29868097.10 29868097.23 29868097.37 0.0134 0.0074

Uranus 77064-03-18 22:34 G 29868185.30 29868185.44 29868185.60 0.0134 0.0052

Uranus 77064-06-15 03:36 G 29868273.50 29868273.65 29868273.82 0.0134 0.0030

Uranus 77064-09-11 08:53 G 29868361.70 29868361.87 29868362.03 0.0134 0.0009

Uranus 77064-12-08 13:41 G 29868449.91 29868450.07 29868450.24 0.0135 0.0014

Uranus 77065-03-06 18:44 G 29868538.12 29868538.28 29868538.44 0.0135 0.0035

Uranus 77065-06-02 23:32 G 29868626.34 29868626.48 29868626.63 0.0135 0.0057

Uranus 77065-08-30 04:34 G 29868714.56 29868714.69 29868714.82 0.0135 0.0078

Uranus 77065-11-26 09:22 G 29868802.78 29868802.89 29868803.00 0.0135 0.0099

Jupiter 77066-02-19 22:34 G 29868888.31 29868888.44 29868888.57 0.0534 0.0292

Uranus 77066-02-22 14:10 G 29868891.02 29868891.09 29868891.16 0.0135 0.0120

Jupiter 77071-10-08 05:17 G 29870944.60 29870944.72 29870944.84 0.0494 0.0239

Jupiter 77072-01-05 14:39 G 29871034.04 29871034.11 29871034.19 0.0492 0.0417

Mars 77073-03-14 04:05 G 29871467.55 29871467.67 29871467.78 0.1725 0.0480

Earth 77073-11-08 05:17 G 29871706.60 29871706.72 29871706.85 0.2706 0.0595

Moon 77073-11-08 06:15 G 29871706.63 29871706.76 29871706.89 0.2701 0.0615 *

Saturn 77075-11-10 09:51 G 29872438.80 29872438.91 29872439.02 0.0272 0.0176

Saturn 77076-02-06 22:20 G 29872527.29 29872527.43 29872527.58 0.0272 0.0059

Saturn 77076-05-05 11:17 G 29872615.83 29872615.97 29872616.11 0.0273 0.0063

Moon 77076-05-08 00:29 G 29872618.40 29872618.52 29872618.64 0.2620 0.0742

Earth 77076-05-08 00:29 G 29872618.40 29872618.52 29872618.64 0.2627 0.0701 *

Saturn 77076-08-02 00:29 G 29872704.41 29872704.52 29872704.62 0.0273 0.0187

Jupiter 77077-12-08 22:05 G 29873198.40 29873198.42 29873198.44 0.0534 0.0525

Jupiter 77078-03-08 22:20 G 29873288.33 29873288.43 29873288.53 0.0536 0.0413

Venus 77082-07-07 13:27 G 29874869.93 29874870.06 29874870.19 0.3718 0.0385

Mars 77082-08-04 13:41 G 29874897.98 29874898.07 29874898.16 0.1719 0.1065

Mars 77083-06-18 18:58 G 29875216.16 29875216.29 29875216.42 0.1791 0.0948

Jupiter 77083-07-27 08:39 G 29875254.78 29875254.86 29875254.95 0.0494 0.0398

Jupiter 77083-10-24 18:00 G 29875344.12 29875344.25 29875344.37 0.0492 0.0253

Mars 77084-07-10 00:15 G 29875603.45 29875603.51 29875603.57 0.1744 0.1477

Earth 77086-11-11 04:05 G 29876457.60 29876457.67 29876457.75 0.2705 0.2177

Moon 77086-11-11 04:20 G 29876457.61 29876457.68 29876457.76 0.2699 0.2195 *

Moon 77089-05-10 21:08 G 29877369.25 29877369.38 29877369.50 0.2622 0.0627

Earth 77089-05-10 21:36 G 29877369.28 29877369.40 29877369.52 0.2627 0.0674 *

Venus 77089-08-03 05:32 G 29877453.70 29877453.73 29877453.76 0.3653 0.3502

Jupiter 77089-12-25 22:34 G 29877598.30 29877598.44 29877598.59 0.0536 0.0197

Saturn 77090-03-21 11:17 G 29877683.83 29877683.97 29877684.11 0.0287 0.0160

Saturn 77090-06-18 06:15 G 29877772.60 29877772.76 29877772.93 0.0287 0.0005

Saturn 77090-09-15 00:44 G 29877861.40 29877861.53 29877861.67 0.0286 0.0164

Mars 77091-12-25 23:17 G 29878328.44 29878328.47 29878328.51 0.1713 0.1639

Mars 77092-11-07 18:58 G 29878646.13 29878646.29 29878646.45 0.1798 0.0096

Earth 77093-11-03 12:29 G 29879006.96 29879007.02 29879007.07 0.2706 0.2442

Moon 77093-11-03 13:27 G 29879006.99 29879007.06 29879007.13 0.2711 0.2266 *

Mars 77093-11-30 09:22 G 29879033.78 29879033.89 29879033.99 0.1737 0.0827

Venus 77095-02-16 23:17 G 29879477.36 29879477.47 29879477.58 0.3654 0.0538

Jupiter 77095-08-12 20:39 G 29879654.21 29879654.36 29879654.50 0.0493 0.0079

Venus 77100-09-02 17:17 G 29881501.14 29881501.22 29881501.30 0.3655 0.2563

Jupiter 77101-10-14 22:20 G 29881908.27 29881908.43 29881908.59 0.0535 0.0036

Mars 77102-03-31 18:00 G 29882076.14 29882076.25 29882076.37 0.1805 0.1212

Moon 77102-05-14 18:00 G 29882120.17 29882120.25 29882120.33 0.2627 0.2010

Earth 77102-05-14 18:58 G 29882120.22 29882120.29 29882120.37 0.2628 0.2094 *

Mars 77103-04-23 18:29 G 29882464.15 29882464.27 29882464.39 0.1731 0.0197

Uranus 77104-10-06 19:12 G 29882996.25 29882996.30 29882996.34 0.0144 0.0136

Uranus 77105-01-02 23:46 G 29883084.40 29883084.49 29883084.58 0.0144 0.0113

Saturn 77105-03-30 12:29 G 29883170.93 29883171.02 29883171.11 0.0272 0.0204

Uranus 77105-04-01 04:34 G 29883172.57 29883172.69 29883172.80 0.0144 0.0089

Saturn 77105-06-27 00:58 G 29883259.41 29883259.54 29883259.68 0.0272 0.0087

Uranus 77105-06-28 09:08 G 29883260.75 29883260.88 29883261.02 0.0144 0.0065

Saturn 77105-09-23 13:56 G 29883347.93 29883348.08 29883348.22 0.0273 0.0035

Uranus 77105-09-24 13:56 G 29883348.94 29883349.08 29883349.23 0.0143 0.0041

Saturn 77105-12-21 02:53 G 29883436.51 29883436.62 29883436.74 0.0273 0.0158

Uranus 77105-12-21 18:44 G 29883437.14 29883437.28 29883437.44 0.0143 0.0017

Uranus 77106-03-19 23:46 G 29883525.34 29883525.49 29883525.64 0.0143 0.0008

Uranus 77106-06-16 04:34 G 29883613.54 29883613.69 29883613.84 0.0143 0.0032

Uranus 77106-09-12 09:22 G 29883701.76 29883701.89 29883702.04 0.0143 0.0058

Earth 77106-11-07 11:46 G 29883757.87 29883757.99 29883758.12 0.2706 0.0746

Moon 77106-11-07 12:58 G 29883757.91 29883758.04 29883758.16 0.2706 0.0715 *

Uranus 77106-12-09 14:24 G 29883789.98 29883790.10 29883790.23 0.0143 0.0082

Uranus 77107-03-07 19:27 G 29883878.22 29883878.31 29883878.42 0.0143 0.0107

Jupiter 77107-06-01 23:46 G 29883964.35 29883964.49 29883964.63 0.0493 0.0086

Uranus 77107-06-04 00:29 G 29883966.47 29883966.52 29883966.58 0.0143 0.0132

Earth 77109-05-07 08:53 G 29884669.77 29884669.87 29884669.96 0.2626 0.1782

Moon 77109-05-07 09:22 G 29884669.80 29884669.89 29884669.99 0.2622 0.1777 *

Mars 77112-09-13 04:05 G 29885894.55 29885894.67 29885894.79 0.1725 0.0405

Jupiter 77113-08-02 20:24 G 29886218.22 29886218.35 29886218.49 0.0534 0.0294

Jupiter 77119-03-21 03:22 G 29888274.51 29888274.64 29888274.76 0.0494 0.0243

Jupiter 77119-06-18 12:44 G 29888363.96 29888364.03 29888364.11 0.0492 0.0414

Saturn 77119-08-09 13:56 G 29888415.95 29888416.08 29888416.21 0.0288 0.0185

Saturn 77119-11-06 08:53 G 29888504.71 29888504.87 29888505.04 0.0287 0.0021

Earth 77119-11-10 10:48 G 29888508.83 29888508.95 29888509.08 0.2706 0.0897

Moon 77119-11-10 11:46 G 29888508.87 29888508.99 29888509.11 0.2701 0.1049 *

Saturn 77120-02-03 03:36 G 29888593.51 29888593.65 29888593.79 0.0287 0.0141

Neptune 77121-05-21 03:51 G 29889066.62 29889066.66 29889066.73 0.0088 0.0082

Neptune 77121-08-17 05:46 G 29889154.67 29889154.74 29889154.83 0.0088 0.0074

Neptune 77121-11-13 07:41 G 29889242.73 29889242.82 29889242.93 0.0088 0.0066

Mars 77122-02-03 13:41 G 29889324.97 29889325.07 29889325.16 0.1719 0.0995

Neptune 77122-02-09 09:36 G 29889330.79 29889330.90 29889331.01 0.0088 0.0058

Neptune 77122-05-08 11:32 G 29889418.86 29889418.98 29889419.10 0.0088 0.0050

Moon 77122-05-10 05:46 G 29889420.61 29889420.74 29889420.86 0.2620 0.0387

Earth 77122-05-10 05:46 G 29889420.61 29889420.74 29889420.86 0.2627 0.0445 *

Neptune 77122-08-04 13:12 G 29889506.92 29889507.05 29889507.19 0.0088 0.0042

Neptune 77122-10-31 15:08 G 29889594.99 29889595.13 29889595.27 0.0088 0.0034

Mars 77122-12-18 19:41 G 29889643.19 29889643.32 29889643.44 0.1791 0.1070

Neptune 77123-01-27 17:03 G 29889683.07 29889683.21 29889683.36 0.0088 0.0026

Neptune 77123-04-25 18:44 G 29889771.14 29889771.28 29889771.44 0.0088 0.0019

Neptune 77123-07-22 20:53 G 29889859.22 29889859.37 29889859.52 0.0088 0.0011

Neptune 77123-10-18 22:48 G 29889947.29 29889947.45 29889947.60 0.0088 0.0003

Mars 77124-01-10 00:15 G 29890030.46 29890030.51 29890030.57 0.1744 0.1550

Neptune 77124-01-15 00:44 G 29890035.37 29890035.53 29890035.68 0.0088 0.0006

Neptune 77124-04-12 02:24 G 29890123.45 29890123.60 29890123.76 0.0088 0.0014

Neptune 77124-07-09 04:20 G 29890211.54 29890211.68 29890211.83 0.0088 0.0022

Neptune 77124-10-05 06:15 G 29890299.62 29890299.76 29890299.91 0.0088 0.0030

Neptune 77125-01-01 08:10 G 29890387.71 29890387.84 29890387.99 0.0088 0.0038

Neptune 77125-03-30 10:05 G 29890475.80 29890475.92 29890476.06 0.0088 0.0046

Neptune 77125-06-26 12:15 G 29890563.89 29890564.01 29890564.13 0.0088 0.0054

Jupiter 77125-08-19 19:41 G 29890618.22 29890618.32 29890618.43 0.0536 0.0403

Neptune 77125-09-22 13:56 G 29890651.98 29890652.08 29890652.20 0.0088 0.0063

Neptune 77125-12-19 15:51 G 29890740.08 29890740.16 29890740.26 0.0088 0.0071

Neptune 77126-03-17 18:00 G 29890828.19 29890828.25 29890828.32 0.0088 0.0079

Neptune 77126-06-13 19:56 G 29890916.32 29890916.33 29890916.35 0.0088 0.0087

Jupiter 77131-01-07 06:44 G 29892584.70 29892584.78 29892584.87 0.0495 0.0400

Jupiter 77131-04-06 16:05 G 29892674.05 29892674.17 29892674.29 0.0492 0.0251

Mars 77131-06-26 23:32 G 29892755.43 29892755.48 29892755.52 0.1713 0.1563

Mars 77132-05-09 19:27 G 29893073.15 29893073.31 29893073.46 0.1798 0.0028

Moon 77132-11-12 09:36 G 29893259.84 29893259.90 29893259.95 0.2698 0.2417

Earth 77132-11-12 09:36 G 29893259.85 29893259.90 29893259.95 0.2705 0.2473 *

Mars 77133-06-01 09:22 G 29893460.78 29893460.89 29893460.99 0.1737 0.0903

Venus 77133-07-29 13:12 G 29893519.02 29893519.05 29893519.08 0.3719 0.3617

Saturn 77134-08-17 14:53 G 29893903.05 29893903.12 29893903.19 0.0272 0.0234

Saturn 77134-11-14 03:22 G 29893991.51 29893991.64 29893991.77 0.0272 0.0117

Saturn 77135-02-10 16:05 G 29894080.03 29894080.17 29894080.32 0.0273 0.0006

Saturn 77135-05-10 05:03 G 29894168.58 29894168.71 29894168.84 0.0273 0.0126

Moon 77135-05-13 02:10 G 29894171.47 29894171.59 29894171.71 0.2623 0.0836

Earth 77135-05-13 02:53 G 29894171.50 29894171.62 29894171.74 0.2627 0.0950 *

Saturn 77135-08-06 18:15 G 29894257.21 29894257.26 29894257.32 0.0273 0.0251

Jupiter 77137-06-07 19:41 G 29894928.17 29894928.32 29894928.47 0.0536 0.0178

Venus 77139-02-12 12:58 G 29895542.92 29895543.04 29895543.16 0.3717 0.1340

Earth 77139-11-05 18:00 G 29895809.17 29895809.25 29895809.33 0.2706 0.2120

Moon 77139-11-05 18:58 G 29895809.21 29895809.29 29895809.37 0.2711 0.2082 *

Mars 77141-09-29 18:29 G 29896503.15 29896503.27 29896503.40 0.1806 0.1101

Mars 77142-10-22 18:29 G 29896891.15 29896891.27 29896891.39 0.1731 0.0273

Jupiter 77143-01-23 19:27 G 29896984.16 29896984.31 29896984.45 0.0493 0.0090

Venus 77146-03-11 03:22 G 29898126.56 29898126.64 29898126.73 0.3653 0.2413

Uranus 77147-07-19 13:56 G 29898622.00 29898622.08 29898622.18 0.0134 0.0113

Uranus 77147-10-15 19:12 G 29898710.19 29898710.30 29898710.43 0.0134 0.0090

Uranus 77148-01-12 00:29 G 29898798.38 29898798.52 29898798.66 0.0134 0.0068

Uranus 77148-04-09 05:32 G 29898886.58 29898886.73 29898886.89 0.0134 0.0046

Moon 77148-05-14 23:17 G 29898922.41 29898922.47 29898922.54 0.2627 0.2252

Earth 77148-05-15 00:29 G 29898922.47 29898922.52 29898922.57 0.2628 0.2379 *

Uranus 77148-07-06 10:48 G 29898974.78 29898974.95 29898975.11 0.0135 0.0024

Uranus 77148-10-02 15:36 G 29899062.99 29899063.15 29899063.32 0.0135 0.0004

Saturn 77148-12-26 12:29 G 29899147.94 29899148.02 29899148.11 0.0287 0.0243

Uranus 77148-12-29 20:39 G 29899151.20 29899151.36 29899151.52 0.0135 0.0020

Saturn 77149-03-25 07:56 G 29899236.67 29899236.83 29899236.99 0.0287 0.0077

Jupiter 77149-03-26 19:56 G 29899238.17 29899238.33 29899238.49 0.0535 0.0042

Uranus 77149-03-28 01:41 G 29899239.42 29899239.57 29899239.72 0.0135 0.0041

Saturn 77149-06-22 02:39 G 29899325.45 29899325.61 29899325.77 0.0286 0.0085

Uranus 77149-06-24 06:29 G 29899327.63 29899327.77 29899327.92 0.0135 0.0063

Saturn 77149-09-18 20:53 G 29899414.29 29899414.37 29899414.45 0.0286 0.0242

Uranus 77149-09-20 11:17 G 29899415.85 29899415.97 29899416.10 0.0135 0.0085

Uranus 77149-12-17 16:05 G 29899504.08 29899504.17 29899504.28 0.0135 0.0106

Uranus 77150-03-15 20:53 G 29899592.33 29899592.37 29899592.43 0.0135 0.0127

Pluto 77150-10-10 00:29 G 29899800.49 29899800.52 29899800.58 0.0081 0.0077

Pluto 77151-01-06 02:10 G 29899888.49 29899888.59 29899888.71 0.0081 0.0056

Pluto 77151-04-04 03:51 G 29899976.53 29899976.66 29899976.80 0.0081 0.0035

Pluto 77151-07-01 05:32 G 29900064.58 29900064.73 29900064.88 0.0081 0.0014

Venus 77151-09-24 21:22 G 29900150.27 29900150.39 29900150.50 0.3654 0.0607

Pluto 77151-09-27 07:12 G 29900152.64 29900152.80 29900152.95 0.0080 0.0007

Pluto 77151-12-24 08:39 G 29900240.72 29900240.86 29900241.01 0.0080 0.0028

Mars 77152-03-14 03:51 G 29900321.54 29900321.66 29900321.78 0.1725 0.0341

Pluto 77152-03-21 10:20 G 29900328.81 29900328.93 29900329.06 0.0080 0.0048

Pluto 77152-06-17 11:46 G 29900416.92 29900416.99 29900417.08 0.0080 0.0069

Earth 77152-11-07 17:32 G 29900560.10 29900560.23 29900560.36 0.2706 0.0434

Moon 77152-11-07 18:29 G 29900560.14 29900560.27 29900560.40 0.2704 0.0234 *

Jupiter 77154-11-11 22:05 G 29901294.28 29901294.42 29901294.56 0.0493 0.0083

Earth 77155-05-08 13:56 G 29901471.98 29901472.08 29901472.19 0.2626 0.1524

Moon 77155-05-08 14:24 G 29901472.00 29901472.10 29901472.21 0.2621 0.1401 *

Jupiter 77161-01-12 19:27 G 29903548.17 29903548.31 29903548.45 0.0534 0.0274

Mars 77161-08-04 13:41 G 29903751.97 29903752.07 29903752.17 0.1719 0.0926

Mars 77162-06-18 20:10 G 29904070.23 29904070.34 29904070.46 0.1790 0.1183

Mars 77163-07-11 00:15 G 29904457.46 29904457.51 29904457.55 0.1744 0.1617

Saturn 77164-01-04 17:03 G 29904635.19 29904635.21 29904635.24 0.0272 0.0266

Saturn 77164-04-02 05:32 G 29904723.61 29904723.73 29904723.85 0.0272 0.0149

Saturn 77164-06-29 18:15 G 29904812.12 29904812.26 29904812.40 0.0273 0.0030

Saturn 77164-09-26 07:12 G 29904900.66 29904900.80 29904900.94 0.0273 0.0092

Saturn 77164-12-23 20:24 G 29904989.26 29904989.35 29904989.44 0.0273 0.0217

Earth 77165-11-10 16:34 G 29905311.07 29905311.19 29905311.30 0.2706 0.1207

Moon 77165-11-10 17:17 G 29905311.10 29905311.22 29905311.33 0.2700 0.1204 *

Jupiter 77166-08-31 01:27 G 29905604.43 29905604.56 29905604.68 0.0494 0.0245

Jupiter 77166-11-28 10:48 G 29905693.87 29905693.95 29905694.03 0.0492 0.0410

Moon 77168-05-10 10:48 G 29906222.83 29906222.95 29906223.08 0.2620 0.0263

Earth 77168-05-10 11:03 G 29906222.83 29906222.96 29906223.08 0.2627 0.0184 *

Mars 77170-12-25 23:32 G 29907182.42 29907182.48 29907182.53 0.1713 0.1493

Mars 77171-11-08 19:56 G 29907500.18 29907500.33 29907500.49 0.1798 0.0133

Mars 77172-11-30 09:22 G 29907887.79 29907887.89 29907887.99 0.1738 0.0973

Jupiter 77173-01-29 17:46 G 29907948.14 29907948.24 29907948.34 0.0536 0.0404

Saturn 77178-05-15 14:53 G 29909880.07 29909880.12 29909880.18 0.0288 0.0270

Jupiter 77178-06-19 04:48 G 29909914.63 29909914.70 29909914.79 0.0495 0.0402

Saturn 77178-08-12 10:20 G 29909968.78 29909968.93 29909969.09 0.0287 0.0102

Jupiter 77178-09-16 14:10 G 29910003.97 29910004.09 29910004.21 0.0492 0.0250

Saturn 77178-11-09 05:17 G 29910057.56 29910057.72 29910057.88 0.0287 0.0061

Saturn 77179-02-05 23:32 G 29910146.38 29910146.48 29910146.59 0.0287 0.0219

Mars 77181-03-30 19:27 G 29910930.17 29910930.31 29910930.44 0.1805 0.0971

Moon 77181-05-13 07:27 G 29910973.69 29910973.81 29910973.92 0.2624 0.1189

Earth 77181-05-13 08:10 G 29910973.73 29910973.84 29910973.95 0.2627 0.1219 *

Mars 77182-04-22 18:29 G 29911318.15 29911318.27 29911318.39 0.1731 0.0348

Jupiter 77184-11-17 17:17 G 29912258.07 29912258.22 29912258.37 0.0535 0.0170

Earth 77185-11-05 23:32 G 29912611.39 29912611.48 29912611.58 0.2706 0.1801

Moon 77185-11-06 00:29 G 29912611.42 29912611.52 29912611.63 0.2709 0.1656 *

Earth 77188-05-05 22:34 G 29913523.42 29913523.44 29913523.46 0.2626 0.2577

Moon 77188-05-05 23:32 G 29913523.43 29913523.48 29913523.52 0.2624 0.2437 *

Uranus 77188-10-27 02:10 G 29913697.53 29913697.59 29913697.65 0.0144 0.0130

Uranus 77189-01-23 06:44 G 29913785.69 29913785.78 29913785.88 0.0144 0.0106

Uranus 77189-04-21 11:32 G 29913873.86 29913873.98 29913874.10 0.0144 0.0083

Uranus 77189-07-18 16:20 G 29913962.04 29913962.18 29913962.32 0.0143 0.0059

Uranus 77189-10-14 21:08 G 29914050.23 29914050.38 29914050.52 0.0143 0.0035

Uranus 77190-01-11 01:56 G 29914138.43 29914138.58 29914138.73 0.0143 0.0010

Venus 77190-03-05 12:44 G 29914191.92 29914192.03 29914192.15 0.3718 0.1836

Uranus 77190-04-09 06:44 G 29914226.63 29914226.78 29914226.93 0.0143 0.0014

Jupiter 77190-07-05 17:32 G 29914314.09 29914314.23 29914314.37 0.0493 0.0090

Uranus 77190-07-06 11:32 G 29914314.84 29914314.98 29914315.13 0.0143 0.0039

Uranus 77190-10-02 16:34 G 29914403.06 29914403.19 29914403.33 0.0143 0.0063

Uranus 77190-12-29 21:22 G 29914491.28 29914491.39 29914491.52 0.0143 0.0089

Uranus 77191-03-28 02:24 G 29914579.52 29914579.60 29914579.70 0.0143 0.0114

Uranus 77191-06-24 07:41 G 29914667.78 29914667.82 29914667.85 0.0143 0.0139

Mars 77191-09-13 03:51 G 29914748.55 29914748.66 29914748.78 0.1725 0.0271

Saturn 77193-08-20 08:10 G 29915455.73 29915455.84 29915455.94 0.0272 0.0178

Saturn 77193-11-16 20:39 G 29915544.22 29915544.36 29915544.50 0.0272 0.0060

Saturn 77194-02-13 09:22 G 29915632.75 29915632.89 29915633.04 0.0273 0.0062

Saturn 77194-05-12 22:34 G 29915721.34 29915721.44 29915721.55 0.0273 0.0185

Moon 77194-05-16 04:48 G 29915724.67 29915724.70 29915724.73 0.2628 0.2546

Venus 77195-09-19 12:15 G 29916215.94 29916216.01 29916216.09 0.3717 0.3030

Jupiter 77196-09-05 17:03 G 29916568.05 29916568.21 29916568.36 0.0535 0.0061

Earth 77198-11-08 23:03 G 29917362.33 29917362.46 29917362.59 0.2706 0.0130

Moon 77198-11-09 00:00 G 29917362.37 29917362.50 29917362.63 0.2703 0.0077 *

Mars 77201-02-02 13:27 G 29918178.96 29918179.06 29918179.17 0.1719 0.0857

Earth 77201-05-08 19:12 G 29918274.19 29918274.30 29918274.41 0.2626 0.1265

Moon 77201-05-08 19:41 G 29918274.21 29918274.32 29918274.43 0.2620 0.1287 *

Mars 77201-12-17 20:39 G 29918497.25 29918497.36 29918497.47 0.1791 0.1282

Jupiter 77202-04-23 20:53 G 29918624.23 29918624.37 29918624.51 0.0493 0.0070

Venus 77202-10-16 01:27 G 29918799.45 29918799.56 29918799.66 0.3653 0.1301

Mars 77203-01-09 00:15 G 29918884.48 29918884.51 29918884.54 0.1744 0.1691

Neptune 77203-08-31 19:27 G 29919119.26 29919119.31 29919119.39 0.0090 0.0083

Neptune 77203-11-27 22:20 G 29919207.34 29919207.43 29919207.53 0.0090 0.0073

Neptune 77204-02-24 00:29 G 29919295.42 29919295.52 29919295.65 0.0090 0.0064

Neptune 77204-05-22 02:53 G 29919383.51 29919383.62 29919383.77 0.0090 0.0055

Neptune 77204-08-18 05:46 G 29919471.60 29919471.74 29919471.88 0.0090 0.0045

Neptune 77204-11-14 08:10 G 29919559.69 29919559.84 29919560.00 0.0090 0.0036

Neptune 77205-02-10 10:34 G 29919647.79 29919647.94 29919648.10 0.0090 0.0027

Neptune 77205-05-09 13:12 G 29919735.89 29919736.05 29919736.21 0.0090 0.0017

Neptune 77205-08-05 15:36 G 29919823.99 29919824.15 29919824.31 0.0090 0.0008

Neptune 77205-11-01 18:00 G 29919912.09 29919912.25 29919912.41 0.0090 0.0001

Neptune 77206-01-28 20:24 G 29920000.19 29920000.35 29920000.51 0.0090 0.0010

Neptune 77206-04-26 22:48 G 29920088.29 29920088.45 29920088.61 0.0090 0.0020

Neptune 77206-07-24 00:58 G 29920176.39 29920176.54 29920176.70 0.0090 0.0029

Neptune 77206-10-20 03:22 G 29920264.50 29920264.64 29920264.79 0.0090 0.0038

Neptune 77207-01-16 05:46 G 29920352.61 29920352.74 29920352.88 0.0090 0.0047

Neptune 77207-04-14 07:56 G 29920440.72 29920440.83 29920440.97 0.0090 0.0056

Neptune 77207-07-11 10:20 G 29920528.83 29920528.93 29920529.05 0.0090 0.0065

Neptune 77207-10-07 12:29 G 29920616.94 29920617.02 29920617.13 0.0090 0.0074

Saturn 77207-12-30 09:08 G 29920700.74 29920700.88 29920701.02 0.0287 0.0160

Neptune 77208-01-03 14:39 G 29920705.07 29920705.11 29920705.19 0.0090 0.0083

Saturn 77208-03-28 04:05 G 29920789.51 29920789.67 29920789.84 0.0286 0.0006

Venus 77208-04-30 19:27 G 29920823.21 29920823.31 29920823.41 0.3654 0.1756

Jupiter 77208-06-24 17:03 G 29920878.07 29920878.21 29920878.34 0.0534 0.0281

Saturn 77208-06-24 22:34 G 29920878.31 29920878.44 29920878.58 0.0286 0.0164 *

Mars 77210-06-25 23:17 G 29921609.41 29921609.47 29921609.54 0.1713 0.1426

Mars 77211-05-09 20:53 G 29921927.21 29921927.37 29921927.52 0.1798 0.0257

Earth 77211-11-11 22:05 G 29922113.31 29922113.42 29922113.52 0.2706 0.1509

Moon 77211-11-11 22:20 G 29922113.33 29922113.43 29922113.54 0.2700 0.1632 *

Mars 77212-05-31 09:22 G 29922314.79 29922314.89 29922314.98 0.1737 0.1044

Jupiter 77214-02-09 23:46 G 29922934.37 29922934.49 29922934.62 0.0494 0.0239

Jupiter 77214-05-10 09:08 G 29923023.81 29923023.88 29923023.96 0.0492 0.0415

Moon 77214-05-11 16:05 G 29923025.04 29923025.17 29923025.29 0.2621 0.0160

Earth 77214-05-11 16:20 G 29923025.05 29923025.18 29923025.30 0.2627 0.0118 *

Jupiter 77220-04-12 16:20 G 29925188.15 29925188.18 29925188.23 0.0533 0.0514

Jupiter 77220-07-11 16:48 G 29925278.11 29925278.20 29925278.30 0.0536 0.0425

Mars 77220-09-28 19:56 G 29925357.19 29925357.33 29925357.47 0.1805 0.0856

Mars 77221-10-21 18:29 G 29925745.15 29925745.27 29925745.39 0.1731 0.0411

Saturn 77223-01-07 09:51 G 29926187.82 29926187.91 29926188.00 0.0272 0.0214

Saturn 77223-04-05 22:20 G 29926276.30 29926276.43 29926276.56 0.0272 0.0097

Saturn 77223-07-03 11:03 G 29926364.82 29926364.96 29926365.11 0.0273 0.0024

Saturn 77223-09-30 00:00 G 29926453.38 29926453.50 29926453.63 0.0273 0.0147

Saturn 77223-12-27 13:27 G 29926542.06 29926542.06 29926542.07 0.0274 0.0273

Jupiter 77225-11-29 03:08 G 29927244.55 29927244.63 29927244.72 0.0495 0.0400

Jupiter 77226-02-26 12:15 G 29927333.89 29927334.01 29927334.14 0.0492 0.0251

Moon 77227-05-14 12:44 G 29927775.92 29927776.03 29927776.14 0.2624 0.1327

Earth 77227-05-14 13:41 G 29927775.96 29927776.07 29927776.17 0.2627 0.1501 *

Mars 77231-03-14 04:05 G 29929175.55 29929175.67 29929175.79 0.1725 0.0202

Uranus 77231-05-12 15:51 G 29929235.12 29929235.16 29929235.21 0.0134 0.0129

Uranus 77231-08-08 20:53 G 29929323.28 29929323.37 29929323.48 0.0134 0.0107

Uranus 77231-11-05 02:10 G 29929411.47 29929411.59 29929411.73 0.0135 0.0084

Earth 77231-11-07 05:17 G 29929413.61 29929413.72 29929413.83 0.2706 0.1482

Moon 77231-11-07 06:15 G 29929413.65 29929413.76 29929413.87 0.2707 0.1365 *

Uranus 77232-02-01 07:27 G 29929499.66 29929499.81 29929499.96 0.0135 0.0062

Uranus 77232-04-29 12:29 G 29929587.87 29929588.02 29929588.18 0.0135 0.0040

Jupiter 77232-04-29 15:22 G 29929588.00 29929588.14 29929588.29 0.0535 0.0176 *

Uranus 77232-07-26 17:32 G 29929676.07 29929676.23 29929676.40 0.0135 0.0018

Uranus 77232-10-22 22:48 G 29929764.28 29929764.45 29929764.61 0.0135 0.0005

Uranus 77233-01-19 03:36 G 29929852.49 29929852.65 29929852.81 0.0135 0.0027

Uranus 77233-04-17 08:39 G 29929940.71 29929940.86 29929941.01 0.0135 0.0048

Uranus 77233-07-14 13:27 G 29930028.93 29930029.06 29930029.20 0.0135 0.0070

Uranus 77233-10-10 18:15 G 29930117.15 29930117.26 29930117.39 0.0135 0.0091

Uranus 77234-01-06 23:17 G 29930205.39 29930205.47 29930205.56 0.0135 0.0112

Uranus 77234-04-05 03:51 G 29930293.65 29930293.66 29930293.70 0.0135 0.0133

Earth 77234-05-07 03:51 G 29930325.60 29930325.66 29930325.71 0.2626 0.2325

Moon 77234-05-07 04:34 G 29930325.63 29930325.69 29930325.75 0.2623 0.2253 *

Saturn 77237-05-18 11:03 G 29931432.84 29931432.96 29931433.09 0.0288 0.0190

Saturn 77237-08-15 06:15 G 29931521.60 29931521.76 29931521.93 0.0287 0.0025

Saturn 77237-11-12 00:58 G 29931610.40 29931610.54 29931610.68 0.0287 0.0137

Jupiter 77237-12-15 15:51 G 29931644.01 29931644.16 29931644.30 0.0493 0.0092

Mars 77240-08-03 13:27 G 29932605.96 29932606.06 29932606.17 0.1719 0.0785

Mars 77241-06-17 21:22 G 29932924.29 29932924.39 29932924.48 0.1791 0.1399

Jupiter 77244-02-16 14:53 G 29933897.96 29933898.12 29933898.28 0.0534 0.0061

Earth 77244-11-09 04:34 G 29934164.56 29934164.69 29934164.82 0.2706 0.0198

Moon 77244-11-09 05:32 G 29934164.60 29934164.73 29934164.86 0.2703 0.0369 *

Venus 77246-10-10 12:29 G 29934864.89 29934865.02 29934865.15 0.3718 0.0125

Earth 77247-05-10 00:29 G 29935076.40 29935076.52 29935076.64 0.2626 0.1005

Moon 77247-05-10 00:44 G 29935076.41 29935076.53 29935076.65 0.2620 0.0919 *

Jupiter 77249-10-03 19:12 G 29935954.16 29935954.30 29935954.44 0.0494 0.0068

Mars 77249-12-24 23:17 G 29936036.40 29936036.47 29936036.54 0.1713 0.1355

Mars 77250-11-07 21:08 G 29936354.23 29936354.38 29936354.53 0.1798 0.0354

Mars 77251-11-30 09:22 G 29936741.79 29936741.89 29936741.98 0.1737 0.1116

Saturn 77252-05-26 12:15 G 29936919.96 29936920.01 29936920.08 0.0272 0.0243

Saturn 77252-08-23 00:44 G 29937008.41 29937008.53 29937008.66 0.0272 0.0127

Saturn 77252-11-19 13:27 G 29937096.92 29937097.06 29937097.21 0.0272 0.0008

Saturn 77253-02-16 02:24 G 29937185.47 29937185.60 29937185.73 0.0273 0.0115

Saturn 77253-05-15 15:36 G 29937274.08 29937274.15 29937274.22 0.0273 0.0240

Venus 77253-11-06 05:46 G 29937448.68 29937448.74 29937448.79 0.3652 0.3142

Jupiter 77255-12-05 14:10 G 29938207.96 29938208.09 29938208.23 0.0534 0.0295

Earth 77257-11-12 03:22 G 29938915.55 29938915.64 29938915.74 0.2705 0.1810

Moon 77257-11-12 03:36 G 29938915.56 29938915.65 29938915.75 0.2699 0.1757 *

Venus 77259-05-22 23:32 G 29939472.36 29939472.48 29939472.59 0.3653 0.0229

Mars 77260-03-29 20:24 G 29939784.21 29939784.35 29939784.50 0.1806 0.0740

Moon 77260-05-11 21:08 G 29939827.25 29939827.38 29939827.51 0.2621 0.0250

Earth 77260-05-11 21:36 G 29939827.27 29939827.40 29939827.52 0.2627 0.0365 *

Mars 77261-04-21 18:29 G 29940172.16 29940172.27 29940172.39 0.1731 0.0487

Jupiter 77261-07-22 22:48 G 29940264.32 29940264.45 29940264.57 0.0494 0.0226

Jupiter 77261-10-20 08:10 G 29940353.77 29940353.84 29940353.91 0.0492 0.0430

Venus 77264-12-05 17:32 G 29941496.16 29941496.23 29941496.29 0.3655 0.2918

Saturn 77266-10-05 09:36 G 29942164.83 29942164.90 29942164.99 0.0287 0.0249

Saturn 77267-01-02 05:03 G 29942253.55 29942253.71 29942253.87 0.0287 0.0082

Saturn 77267-04-01 00:00 G 29942342.34 29942342.50 29942342.66 0.0286 0.0080

Saturn 77267-06-28 18:15 G 29942431.17 29942431.26 29942431.35 0.0286 0.0238

Jupiter 77267-09-23 14:10 G 29942518.06 29942518.09 29942518.12 0.0533 0.0519

Jupiter 77267-12-22 14:39 G 29942608.02 29942608.11 29942608.20 0.0536 0.0421

Mars 77270-09-12 03:51 G 29943602.54 29943602.66 29943602.78 0.1725 0.0127

Uranus 77272-11-16 09:22 G 29944398.82 29944398.89 29944398.97 0.0144 0.0123

Uranus 77273-02-12 13:56 G 29944486.98 29944487.08 29944487.20 0.0143 0.0100

Jupiter 77273-05-11 01:56 G 29944574.49 29944574.58 29944574.66 0.0494 0.0391

Uranus 77273-05-11 18:44 G 29944575.16 29944575.28 29944575.41 0.0143 0.0076

Moon 77273-05-14 18:00 G 29944578.15 29944578.25 29944578.34 0.2624 0.1746

Earth 77273-05-14 18:58 G 29944578.19 29944578.29 29944578.38 0.2627 0.1770 *

Uranus 77273-08-07 23:32 G 29944663.34 29944663.48 29944663.62 0.0143 0.0052

Jupiter 77273-08-08 10:48 G 29944663.83 29944663.95 29944664.08 0.0492 0.0260

Uranus 77273-11-04 04:20 G 29944751.54 29944751.68 29944751.83 0.0143 0.0027

Uranus 77274-01-31 09:08 G 29944839.73 29944839.88 29944840.03 0.0143 0.0004

Uranus 77274-04-29 13:56 G 29944927.94 29944928.08 29944928.23 0.0143 0.0022

Uranus 77274-07-26 18:44 G 29945016.15 29945016.28 29945016.43 0.0143 0.0047

Uranus 77274-10-22 23:46 G 29945104.36 29945104.49 29945104.63 0.0143 0.0071

Uranus 77275-01-19 04:48 G 29945192.59 29945192.70 29945192.81 0.0143 0.0096

Uranus 77275-04-17 09:51 G 29945280.83 29945280.91 29945280.99 0.0143 0.0121

Earth 77277-11-07 10:48 G 29946215.83 29946215.95 29946216.07 0.2706 0.1160

Moon 77277-11-07 12:00 G 29946215.88 29946216.00 29946216.12 0.2706 0.1066 *

Jupiter 77279-10-10 14:39 G 29946917.96 29946918.11 29946918.26 0.0535 0.0198

Mars 77280-02-02 13:27 G 29947032.95 29947033.06 29947033.17 0.1719 0.0715

Earth 77280-05-07 08:53 G 29947127.80 29947127.87 29947127.95 0.2626 0.2071

Moon 77280-05-07 09:36 G 29947127.82 29947127.90 29947127.98 0.2622 0.2009 *

Mars 77280-12-16 21:51 G 29947351.33 29947351.41 29947351.49 0.1790 0.1513

Saturn 77282-01-10 01:56 G 29947740.47 29947740.58 29947740.70 0.0272 0.0167

Saturn 77282-04-08 14:39 G 29947828.97 29947829.11 29947829.25 0.0273 0.0048

Saturn 77282-07-06 03:36 G 29947917.51 29947917.65 29947917.79 0.0273 0.0073

Saturn 77282-10-02 16:34 G 29948006.09 29948006.19 29948006.29 0.0273 0.0198

Jupiter 77285-05-27 14:10 G 29948973.95 29948974.09 29948974.23 0.0493 0.0096

Neptune 77285-11-19 01:41 G 29949149.54 29949149.57 29949149.62 0.0088 0.0084

Neptune 77286-02-15 03:36 G 29949237.58 29949237.65 29949237.73 0.0088 0.0076

Neptune 77286-05-14 05:32 G 29949325.64 29949325.73 29949325.83 0.0088 0.0068

Neptune 77286-08-10 06:58 G 29949413.70 29949413.79 29949413.92 0.0088 0.0061

Neptune 77286-11-06 08:53 G 29949501.76 29949501.87 29949502.00 0.0088 0.0053

Neptune 77287-02-02 10:48 G 29949589.83 29949589.95 29949590.09 0.0088 0.0045

Neptune 77287-05-01 12:44 G 29949677.90 29949678.03 29949678.17 0.0088 0.0037

Neptune 77287-07-28 14:39 G 29949765.97 29949766.11 29949766.26 0.0088 0.0029

Neptune 77287-10-24 16:34 G 29949854.05 29949854.19 29949854.34 0.0088 0.0021

Neptune 77288-01-20 18:29 G 29949942.12 29949942.27 29949942.42 0.0088 0.0013

Neptune 77288-04-17 20:24 G 29950030.20 29950030.35 29950030.50 0.0088 0.0005

Neptune 77288-07-14 22:20 G 29950118.28 29950118.43 29950118.58 0.0088 0.0003

Neptune 77288-10-11 00:15 G 29950206.36 29950206.51 29950206.66 0.0088 0.0011

Neptune 77289-01-07 02:10 G 29950294.44 29950294.59 29950294.74 0.0088 0.0019

Neptune 77289-04-05 03:51 G 29950382.52 29950382.66 29950382.81 0.0088 0.0028

Mars 77289-06-24 23:17 G 29950463.40 29950463.47 29950463.55 0.1713 0.1282

Neptune 77289-07-02 05:46 G 29950470.61 29950470.74 29950470.89 0.0088 0.0036

Neptune 77289-09-28 07:41 G 29950558.70 29950558.82 29950558.96 0.0088 0.0044

Neptune 77289-12-25 09:36 G 29950646.79 29950646.90 29950647.03 0.0088 0.0052

Neptune 77290-03-23 11:32 G 29950734.88 29950734.98 29950735.10 0.0088 0.0060

Mars 77290-05-08 21:51 G 29950781.26 29950781.41 29950781.56 0.1798 0.0472

Neptune 77290-06-19 13:41 G 29950822.98 29950823.07 29950823.17 0.0088 0.0068

Neptune 77290-09-15 15:22 G 29950911.08 29950911.14 29950911.23 0.0088 0.0077

Earth 77290-11-10 10:05 G 29950966.79 29950966.92 29950967.05 0.2706 0.0507

Moon 77290-11-10 11:03 G 29950966.83 29950966.96 29950967.08 0.2702 0.0569 *

Neptune 77290-12-12 17:17 G 29950999.20 29950999.22 29950999.27 0.0088 0.0085

Mars 77291-05-31 09:22 G 29951168.80 29951168.89 29951168.98 0.1737 0.1190

Jupiter 77291-07-29 13:12 G 29951227.89 29951228.05 29951228.21 0.0534 0.0052

Earth 77293-05-10 05:46 G 29951878.62 29951878.74 29951878.86 0.2626 0.0745

Moon 77293-05-10 06:00 G 29951878.63 29951878.75 29951878.87 0.2620 0.0750 *

Saturn 77296-02-22 11:03 G 29952896.95 29952896.96 29952896.99 0.0288 0.0285

Saturn 77296-05-21 06:29 G 29952985.63 29952985.77 29952985.93 0.0288 0.0117

Saturn 77296-08-18 01:41 G 29953074.41 29953074.57 29953074.73 0.0287 0.0048

Saturn 77296-11-14 20:10 G 29953163.23 29953163.34 29953163.45 0.0287 0.0207

Jupiter 77297-03-15 17:32 G 29953284.09 29953284.23 29953284.37 0.0494 0.0064

Venus 77297-10-31 12:00 G 29953513.95 29953514.00 29953514.06 0.3719 0.3312

Mars 77299-09-28 21:08 G 29954211.23 29954211.38 29954211.53 0.1805 0.0618

Mars 77300-10-21 18:29 G 29954599.16 29954599.27 29954599.39 0.1731 0.0557

Venus 77303-05-18 12:00 G 29955537.88 29955538.00 29955538.11 0.3718 0.1675

Jupiter 77303-05-18 12:29 G 29955537.88 29955538.02 29955538.15 0.0533 0.0290 *

Earth 77303-11-14 08:53 G 29955717.79 29955717.87 29955717.95 0.2705 0.2107

Moon 77303-11-14 09:08 G 29955717.80 29955717.88 29955717.95 0.2698 0.2180 *

Moon 77306-05-14 02:10 G 29956629.47 29956629.59 29956629.72 0.2622 0.0620

Earth 77306-05-14 02:53 G 29956629.50 29956629.62 29956629.74 0.2627 0.0632 *

Pluto 77306-12-30 09:08 G 29956859.87 29956859.88 29956859.92 0.0063 0.0063

Pluto 77307-03-28 10:05 G 29956947.84 29956947.92 29956948.02 0.0063 0.0052

Pluto 77307-06-24 10:48 G 29957035.84 29957035.95 29957036.08 0.0063 0.0041

Pluto 77307-09-20 11:46 G 29957123.86 29957123.99 29957124.14 0.0064 0.0031

Pluto 77307-12-17 12:44 G 29957211.88 29957212.03 29957212.19 0.0064 0.0020

Pluto 77308-03-14 13:41 G 29957299.91 29957300.07 29957300.23 0.0064 0.0009

Pluto 77308-06-10 14:24 G 29957387.94 29957388.10 29957388.27 0.0064 0.0002

Pluto 77308-09-06 15:08 G 29957475.98 29957476.13 29957476.30 0.0064 0.0013

Pluto 77308-12-03 16:05 G 29957564.02 29957564.17 29957564.32 0.0064 0.0023

Jupiter 77309-01-02 21:08 G 29957594.25 29957594.38 29957594.51 0.0494 0.0221

Mars 77309-02-18 19:56 G 29957641.29 29957641.33 29957641.36 0.1813 0.1761

Pluto 77309-03-01 16:48 G 29957652.07 29957652.20 29957652.34 0.0064 0.0034

Jupiter 77309-04-02 06:29 G 29957683.71 29957683.77 29957683.84 0.0492 0.0436

Pluto 77309-05-28 17:32 G 29957740.13 29957740.23 29957740.36 0.0064 0.0045

Pluto 77309-08-24 18:15 G 29957828.20 29957828.26 29957828.36 0.0064 0.0056

Mars 77310-03-14 03:51 G 29958029.54 29958029.66 29958029.78 0.1725 0.0064

Venus 77310-06-14 03:36 G 29958121.56 29958121.65 29958121.74 0.3652 0.2047

Earth 77310-11-06 16:48 G 29958267.16 29958267.20 29958267.24 0.2707 0.2561

Moon 77310-11-06 17:32 G 29958267.19 29958267.23 29958267.28 0.2711 0.2553 *

Saturn 77311-05-31 04:34 G 29958472.60 29958472.69 29958472.79 0.0272 0.0196

Saturn 77311-08-27 17:17 G 29958561.08 29958561.22 29958561.35 0.0272 0.0078

Saturn 77311-11-24 06:00 G 29958649.60 29958649.75 29958649.89 0.0272 0.0043

Saturn 77312-02-20 18:58 G 29958738.17 29958738.29 29958738.41 0.0273 0.0165

Jupiter 77315-03-06 11:32 G 29959847.97 29959847.98 29959848.00 0.0533 0.0528

Uranus 77315-06-02 22:20 G 29959936.38 29959936.43 29959936.51 0.0135 0.0124

Jupiter 77315-06-04 12:00 G 29959937.91 29959938.00 29959938.10 0.0536 0.0413

Uranus 77315-08-30 03:51 G 29960024.55 29960024.66 29960024.77 0.0135 0.0101

Uranus 77315-11-26 08:53 G 29960112.74 29960112.87 29960113.01 0.0135 0.0079

Venus 77315-12-28 21:22 G 29960145.28 29960145.39 29960145.50 0.3654 0.0964

Uranus 77316-02-22 14:10 G 29960200.94 29960201.09 29960201.24 0.0135 0.0056

Uranus 77316-05-20 19:27 G 29960289.15 29960289.31 29960289.46 0.0135 0.0034

Uranus 77316-08-17 00:29 G 29960377.35 29960377.52 29960377.68 0.0135 0.0012

Uranus 77316-11-13 05:32 G 29960465.56 29960465.73 29960465.89 0.0135 0.0010

Uranus 77317-02-09 10:20 G 29960553.78 29960553.93 29960554.09 0.0135 0.0032

Uranus 77317-05-08 15:22 G 29960641.99 29960642.14 29960642.29 0.0135 0.0053

Uranus 77317-08-04 20:10 G 29960730.21 29960730.34 29960730.48 0.0135 0.0075

Uranus 77317-11-01 01:12 G 29960818.44 29960818.55 29960818.66 0.0135 0.0096

Uranus 77318-01-28 05:46 G 29960906.68 29960906.74 29960906.83 0.0135 0.0118

Moon 77319-05-16 23:17 G 29961380.38 29961380.47 29961380.56 0.2625 0.1872

Earth 77319-05-17 00:15 G 29961380.43 29961380.51 29961380.59 0.2627 0.2050 *

Mars 77319-08-04 13:27 G 29961459.95 29961460.06 29961460.17 0.1718 0.0645

Mars 77320-06-17 22:20 G 29961778.36 29961778.43 29961778.49 0.1791 0.1610

Jupiter 77320-10-22 00:44 G 29961904.44 29961904.53 29961904.62 0.0495 0.0377

Jupiter 77321-01-19 09:51 G 29961993.79 29961993.91 29961994.03 0.0492 0.0275

Earth 77323-11-09 16:20 G 29963018.06 29963018.18 29963018.31 0.2706 0.0845

Moon 77323-11-09 17:32 G 29963018.11 29963018.23 29963018.36 0.2706 0.0666 *

Saturn 77325-10-09 05:03 G 29963717.58 29963717.71 29963717.85 0.0287 0.0176

Saturn 77326-01-06 00:15 G 29963806.35 29963806.51 29963806.68 0.0287 0.0013

Saturn 77326-04-04 18:58 G 29963895.15 29963895.29 29963895.43 0.0286 0.0150

Earth 77326-05-09 14:10 G 29963930.00 29963930.09 29963930.18 0.2626 0.1813

Moon 77326-05-09 14:53 G 29963930.02 29963930.12 29963930.21 0.2621 0.1704 *

Jupiter 77327-03-23 12:29 G 29964247.87 29964248.02 29964248.17 0.0535 0.0196

Mars 77328-12-24 23:17 G 29964890.38 29964890.47 29964890.55 0.1712 0.1221

Mars 77329-11-07 22:34 G 29965208.29 29965208.44 29965208.59 0.1798 0.0593

Mars 77330-11-30 09:08 G 29965595.80 29965595.88 29965595.97 0.1737 0.1256

Jupiter 77332-11-07 12:58 G 29966303.90 29966304.04 29966304.18 0.0493 0.0107

Earth 77336-11-11 15:36 G 29967769.03 29967769.15 29967769.27 0.2706 0.0816

Moon 77336-11-11 16:20 G 29967769.06 29967769.18 29967769.30 0.2701 0.0896 *

Jupiter 77339-01-09 12:29 G 29968557.86 29968558.02 29968558.18 0.0535 0.0029

Mars 77339-03-30 21:51 G 29968638.26 29968638.41 29968638.56 0.1805 0.0501

Moon 77339-05-12 11:03 G 29968680.84 29968680.96 29968681.09 0.2620 0.0466

Earth 77339-05-12 11:03 G 29968680.84 29968680.96 29968681.08 0.2626 0.0476 *

Mars 77340-04-21 18:29 G 29969026.16 29969026.27 29969026.38 0.1731 0.0626

Saturn 77340-10-17 05:32 G 29969204.67 29969204.73 29969204.80 0.0272 0.0239

Saturn 77341-01-13 18:00 G 29969293.12 29969293.25 29969293.38 0.0272 0.0122

Saturn 77341-04-12 06:44 G 29969381.63 29969381.78 29969381.92 0.0273 0.0007

Saturn 77341-07-09 19:27 G 29969470.18 29969470.31 29969470.45 0.0273 0.0120

Saturn 77341-10-06 08:39 G 29969558.80 29969558.86 29969558.93 0.0273 0.0245

Jupiter 77344-08-26 16:20 G 29970614.03 29970614.18 29970614.32 0.0493 0.0055

Mars 77348-08-19 20:39 G 29972068.29 29972068.36 29972068.43 0.1813 0.1633

Mars 77349-09-12 03:51 G 29972456.54 29972456.66 29972456.78 0.1725 0.0051

Moon 77349-11-14 14:24 G 29972520.04 29972520.10 29972520.16 0.2698 0.2360

Earth 77349-11-14 14:24 G 29972520.04 29972520.10 29972520.15 0.2705 0.2409 *

Jupiter 77350-10-28 11:03 G 29972867.83 29972867.96 29972868.10 0.0533 0.0276

Moon 77352-05-14 07:27 G 29973431.69 29973431.81 29973431.93 0.2622 0.0784

Earth 77352-05-14 08:10 G 29973431.72 29973431.84 29973431.96 0.2627 0.0903 *

Venus 77354-06-08 11:46 G 29974186.87 29974186.99 29974187.11 0.3719 0.1500

Saturn 77355-02-26 06:00 G 29974449.64 29974449.75 29974449.86 0.0288 0.0216

Saturn 77355-05-26 01:12 G 29974538.39 29974538.55 29974538.72 0.0288 0.0050

Saturn 77355-08-22 20:10 G 29974627.19 29974627.34 29974627.49 0.0287 0.0113

Saturn 77355-11-19 14:24 G 29974716.05 29974716.10 29974716.15 0.0287 0.0271

Jupiter 77356-06-14 19:41 G 29974924.19 29974924.32 29974924.45 0.0495 0.0215

Uranus 77356-09-10 12:00 G 29975011.97 29975012.00 29975012.04 0.0144 0.0139

Jupiter 77356-09-12 05:03 G 29975013.65 29975013.71 29975013.77 0.0492 0.0443

Earth 77356-11-06 22:34 G 29975069.36 29975069.44 29975069.51 0.2707 0.2235

Moon 77356-11-06 23:32 G 29975069.39 29975069.48 29975069.56 0.2709 0.2041 *

Uranus 77356-12-07 16:34 G 29975100.12 29975100.19 29975100.29 0.0144 0.0116

Uranus 77357-03-05 21:22 G 29975188.28 29975188.39 29975188.51 0.0143 0.0092

Uranus 77357-06-02 02:10 G 29975276.46 29975276.59 29975276.72 0.0143 0.0068

Uranus 77357-08-29 06:58 G 29975364.65 29975364.79 29975364.93 0.0143 0.0044

Uranus 77357-11-25 11:46 G 29975452.84 29975452.99 29975453.14 0.0143 0.0020

Uranus 77358-02-21 16:34 G 29975541.04 29975541.19 29975541.34 0.0143 0.0005

Uranus 77358-05-20 21:22 G 29975629.24 29975629.39 29975629.54 0.0143 0.0029

Uranus 77358-08-17 02:10 G 29975717.45 29975717.59 29975717.73 0.0143 0.0054

Uranus 77358-11-13 07:12 G 29975805.67 29975805.80 29975805.93 0.0143 0.0078

Mars 77359-02-02 13:27 G 29975886.95 29975887.06 29975887.18 0.1718 0.0573

Uranus 77359-02-09 12:00 G 29975893.90 29975894.00 29975894.11 0.0143 0.0103

Uranus 77359-05-08 17:03 G 29975982.15 29975982.21 29975982.28 0.0143 0.0128

Mars 77359-12-17 23:03 G 29976205.42 29976205.46 29976205.50 0.1791 0.1727

Venus 77359-12-23 11:32 G 29976210.93 29976210.98 29976211.03 0.3717 0.3381

Jupiter 77362-08-16 10:05 G 29977177.89 29977177.92 29977177.96 0.0532 0.0516

Jupiter 77362-11-14 10:34 G 29977267.85 29977267.94 29977268.04 0.0535 0.0422

Moon 77365-05-17 04:34 G 29978182.63 29978182.69 29978182.75 0.2628 0.2289

Earth 77365-05-17 05:32 G 29978182.67 29978182.73 29978182.79 0.2627 0.2327 *

Venus 77367-01-19 01:41 G 29978794.46 29978794.57 29978794.67 0.3653 0.0958

Neptune 77368-03-01 16:20 G 29979202.15 29979202.18 29979202.25 0.0090 0.0086

Jupiter 77368-04-02 23:17 G 29979234.38 29979234.47 29979234.56 0.0495 0.0370

Neptune 77368-05-28 18:58 G 29979290.22 29979290.29 29979290.39 0.0090 0.0076

Mars 77368-06-24 23:17 G 29979317.38 29979317.47 29979317.56 0.1712 0.1144

Jupiter 77368-07-01 08:24 G 29979323.73 29979323.85 29979323.97 0.0493 0.0283

Neptune 77368-08-24 21:22 G 29979378.30 29979378.39 29979378.52 0.0090 0.0067

Neptune 77368-11-21 00:15 G 29979466.38 29979466.51 29979466.64 0.0090 0.0057

Neptune 77369-02-17 02:39 G 29979554.48 29979554.61 29979554.76 0.0090 0.0048

Mars 77369-05-08 22:48 G 29979635.31 29979635.45 29979635.60 0.1798 0.0696

Neptune 77369-05-16 05:03 G 29979642.57 29979642.71 29979642.87 0.0090 0.0039

Neptune 77369-08-12 07:41 G 29979730.67 29979730.82 29979730.98 0.0090 0.0029

Neptune 77369-11-08 10:05 G 29979818.76 29979818.92 29979819.08 0.0090 0.0020

Earth 77369-11-09 21:51 G 29979820.29 29979820.41 29979820.54 0.2706 0.0533

Moon 77369-11-09 23:03 G 29979820.33 29979820.46 29979820.59 0.2706 0.0462 *

Neptune 77370-02-04 12:29 G 29979906.86 29979907.02 29979907.19 0.0090 0.0011

Saturn 77370-03-06 08:10 G 29979936.82 29979936.84 29979936.87 0.0271 0.0267

Neptune 77370-05-03 15:08 G 29979994.96 29979995.13 29979995.29 0.0090 0.0003

Mars 77370-05-31 09:22 G 29980022.81 29980022.89 29980022.96 0.1737 0.1330

Saturn 77370-06-02 20:24 G 29980025.24 29980025.35 29980025.47 0.0272 0.0152

Neptune 77370-07-30 17:32 G 29980083.06 29980083.23 29980083.39 0.0090 0.0008

Saturn 77370-08-30 09:08 G 29980113.74 29980113.88 29980114.02 0.0272 0.0033

Neptune 77370-10-26 19:41 G 29980171.16 29980171.32 29980171.49 0.0090 0.0017

Saturn 77370-11-26 21:51 G 29980202.28 29980202.41 29980202.55 0.0272 0.0088

Neptune 77371-01-22 22:05 G 29980259.27 29980259.42 29980259.58 0.0090 0.0026

Saturn 77371-02-23 11:03 G 29980290.87 29980290.96 29980291.05 0.0273 0.0212

Neptune 77371-04-21 00:29 G 29980347.37 29980347.52 29980347.67 0.0090 0.0035

Neptune 77371-07-18 02:53 G 29980435.48 29980435.62 29980435.76 0.0090 0.0044

Neptune 77371-10-14 05:17 G 29980523.59 29980523.72 29980523.85 0.0090 0.0053

Neptune 77372-01-10 07:27 G 29980611.70 29980611.81 29980611.93 0.0090 0.0062

Neptune 77372-04-07 09:51 G 29980699.82 29980699.91 29980700.01 0.0090 0.0071

Earth 77372-05-09 19:27 G 29980732.21 29980732.31 29980732.41 0.2626 0.1557

Moon 77372-05-09 19:56 G 29980732.23 29980732.33 29980732.44 0.2621 0.1539 *

Neptune 77372-07-04 12:00 G 29980787.94 29980788.00 29980788.08 0.0090 0.0080

Venus 77372-08-03 19:27 G 29980818.22 29980818.31 29980818.40 0.3654 0.2100

Neptune 77372-09-30 14:10 G 29980876.09 29980876.09 29980876.13 0.0090 0.0089

Jupiter 77374-09-02 10:20 G 29981577.78 29981577.93 29981578.07 0.0535 0.0192

Mars 77377-11-15 09:08 G 29982747.88 29982747.88 29982747.89 0.1706 0.1700

Mars 77378-09-28 22:20 G 29983065.28 29983065.43 29983065.58 0.1806 0.0388

Mars 77379-10-21 18:29 G 29983453.16 29983453.27 29983453.38 0.1731 0.0698

Jupiter 77380-04-19 12:00 G 29983633.86 29983634.00 29983634.14 0.0493 0.0124

Earth 77382-11-12 21:08 G 29984571.26 29984571.38 29984571.50 0.2706 0.1121

Moon 77382-11-12 21:36 G 29984571.29 29984571.40 29984571.52 0.2700 0.1208 *

Saturn 77384-07-15 04:20 G 29985181.64 29985181.68 29985181.73 0.0288 0.0277

Saturn 77384-10-12 00:00 G 29985270.34 29985270.50 29985270.65 0.0287 0.0108

Saturn 77385-01-08 18:58 G 29985359.13 29985359.29 29985359.45 0.0287 0.0056

Saturn 77385-04-07 13:27 G 29985447.95 29985448.06 29985448.17 0.0286 0.0214

Moon 77385-05-12 16:05 G 29985483.04 29985483.17 29985483.30 0.2620 0.0209

Earth 77385-05-12 16:20 G 29985483.05 29985483.18 29985483.31 0.2627 0.0212 *

Jupiter 77386-06-21 10:20 G 29985887.78 29985887.93 29985888.09 0.0535 0.0031

Mars 77388-02-18 21:22 G 29986495.31 29986495.39 29986495.48 0.1812 0.1499

Mars 77389-03-13 03:51 G 29986883.54 29986883.66 29986883.78 0.1724 0.0085

Jupiter 77392-02-06 15:08 G 29987943.99 29987944.13 29987944.27 0.0493 0.0041

Pluto 77396-12-02 13:41 G 29989705.04 29989705.07 29989705.14 0.0081 0.0076

Pluto 77397-02-28 15:36 G 29989793.04 29989793.15 29989793.27 0.0081 0.0055

Pluto 77397-05-27 17:17 G 29989881.08 29989881.22 29989881.36 0.0081 0.0034

Pluto 77397-08-23 18:58 G 29989969.14 29989969.29 29989969.44 0.0081 0.0013

Pluto 77397-11-19 20:24 G 29990057.20 29990057.35 29990057.51 0.0080 0.0008

Pluto 77398-02-15 22:05 G 29990145.28 29990145.42 29990145.57 0.0080 0.0029

Jupiter 77398-04-09 10:20 G 29990197.79 29990197.93 29990198.07 0.0534 0.0252

Pluto 77398-05-14 23:32 G 29990233.37 29990233.48 29990233.61 0.0080 0.0050

Moon 77398-05-15 12:44 G 29990233.92 29990234.03 29990234.15 0.2622 0.1131

Earth 77398-05-15 13:27 G 29990233.95 29990234.06 29990234.18 0.2627 0.1182 *

Mars 77398-08-03 13:27 G 29990313.95 29990314.06 29990314.18 0.1719 0.0503

Pluto 77398-08-11 00:58 G 29990321.48 29990321.54 29990321.63 0.0080 0.0070

Uranus 77399-06-23 05:17 G 29990637.65 29990637.72 29990637.81 0.0135 0.0118

Uranus 77399-09-19 10:34 G 29990725.83 29990725.94 29990726.06 0.0135 0.0095

Saturn 77399-10-20 21:08 G 29990757.28 29990757.38 29990757.48 0.0272 0.0198

Uranus 77399-12-16 15:36 G 29990814.02 29990814.15 29990814.30 0.0135 0.0073

Saturn 77400-01-17 09:36 G 29990845.76 29990845.90 29990846.04 0.0272 0.0081

Uranus 77400-03-14 20:53 G 29990902.22 29990902.37 29990902.53 0.0135 0.0050

Saturn 77400-04-15 22:20 G 29990934.28 29990934.43 29990934.57 0.0273 0.0040

Uranus 77400-06-11 02:10 G 29990990.43 29990990.59 29990990.75 0.0135 0.0028

Saturn 77400-07-13 11:17 G 29991022.85 29991022.97 29991023.09 0.0273 0.0162

Uranus 77400-09-07 07:12 G 29991078.64 29991078.80 29991078.96 0.0135 0.0006

Uranus 77400-12-04 12:15 G 29991166.85 29991167.01 29991167.17 0.0135 0.0016

Uranus 77401-03-02 17:03 G 29991255.06 29991255.21 29991255.38 0.0135 0.0038

Uranus 77401-05-29 22:20 G 29991343.28 29991343.43 29991343.57 0.0135 0.0059

Uranus 77401-08-26 02:53 G 29991431.50 29991431.62 29991431.76 0.0135 0.0081

Uranus 77401-11-22 07:56 G 29991519.73 29991519.83 29991519.94 0.0135 0.0102

Uranus 77402-02-18 12:44 G 29991607.97 29991608.03 29991608.10 0.0135 0.0123

Earth 77402-11-09 04:05 G 29991871.58 29991871.67 29991871.76 0.2707 0.1907

Moon 77402-11-09 05:17 G 29991871.62 29991871.72 29991871.81 0.2709 0.1875 *

Jupiter 77403-11-26 18:29 G 29992254.14 29992254.27 29992254.40 0.0494 0.0201

Jupiter 77404-02-24 04:05 G 29992343.61 29992343.67 29992343.72 0.0492 0.0456

Earth 77405-05-09 04:05 G 29992783.65 29992783.67 29992783.68 0.2626 0.2607

Moon 77405-05-09 04:48 G 29992783.69 29992783.70 29992783.72 0.2623 0.2589

Mars 77407-12-25 23:17 G 29993744.38 29993744.47 29993744.56 0.1712 0.1075

Mars 77408-11-07 23:32 G 29994062.34 29994062.48 29994062.62 0.1798 0.0809

Mars 77409-11-30 09:22 G 29994449.82 29994449.89 29994449.96 0.1737 0.1401

Jupiter 77410-01-27 08:53 G 29994507.82 29994507.87 29994507.93 0.0532 0.0498

Jupiter 77410-04-27 09:22 G 29994597.81 29994597.89 29994597.98 0.0535 0.0440

Venus 77411-01-14 11:17 G 29994859.84 29994859.97 29994860.10 0.3719 0.0290

Moon 77411-05-19 09:51 G 29994984.87 29994984.91 29994984.96 0.2629 0.2447

Earth 77411-05-19 10:48 G 29994984.94 29994984.95 29994984.96 0.2627 0.2612 *

Saturn 77414-03-02 00:00 G 29996002.37 29996002.50 29996002.65 0.0288 0.0155

Saturn 77414-05-29 19:27 G 29996091.14 29996091.31 29996091.47 0.0288 0.0013

Saturn 77414-08-26 13:56 G 29996179.96 29996180.08 29996180.22 0.0287 0.0173

Jupiter 77415-09-14 21:51 G 29996564.32 29996564.41 29996564.51 0.0495 0.0362

Earth 77415-11-12 03:36 G 29996622.52 29996622.65 29996622.78 0.2706 0.0214

Moon 77415-11-12 04:34 G 29996622.56 29996622.69 29996622.82 0.2705 0.0022 *

Jupiter 77415-12-13 06:58 G 29996653.68 29996653.79 29996653.91 0.0493 0.0293

Mars 77417-05-17 09:08 G 29997174.85 29997174.88 29997174.92 0.1707 0.1628

Venus 77418-02-10 05:46 G 29997443.67 29997443.74 29997443.81 0.3652 0.2802

Mars 77418-03-30 23:03 G 29997492.31 29997492.46 29997492.62 0.1805 0.0262

Earth 77418-05-12 00:44 G 29997534.42 29997534.53 29997534.64 0.2626 0.1298

Moon 77418-05-12 01:12 G 29997534.44 29997534.55 29997534.66 0.2621 0.1181 *

Mars 77419-04-22 18:29 G 29997880.16 29997880.27 29997880.38 0.1731 0.0772

Jupiter 77422-02-13 09:08 G 29998907.73 29998907.88 29998908.02 0.0535 0.0209

Venus 77423-08-26 23:32 G 29999467.37 29999467.48 29999467.59 0.3653 0.0170

Mars 77427-08-20 21:36 G 30000922.31 30000922.40 30000922.51 0.1813 0.1401

Jupiter 77427-10-01 10:34 G 30000963.80 30000963.94 30000964.08 0.0493 0.0133

Mars 77428-09-12 03:51 G 30001310.54 30001310.66 30001310.78 0.1725 0.0158

Earth 77428-11-14 02:39 G 30001373.50 30001373.61 30001373.72 0.2706 0.1431

Moon 77428-11-14 03:08 G 30001373.52 30001373.63 30001373.74 0.2699 0.1432 *

Saturn 77429-03-09 23:46 G 30001489.42 30001489.49 30001489.57 0.0271 0.0226

Venus 77429-03-11 17:32 G 30001491.18 30001491.23 30001491.28 0.3654 0.3236

Saturn 77429-06-06 12:00 G 30001577.88 30001578.00 30001578.14 0.0272 0.0110

Saturn 77429-09-03 00:44 G 30001666.39 30001666.53 30001666.68 0.0272 0.0009

Saturn 77429-11-30 13:41 G 30001754.94 30001755.07 30001755.20 0.0272 0.0131

Saturn 77430-02-27 02:53 G 30001843.57 30001843.62 30001843.67 0.0273 0.0255

Moon 77431-05-14 21:22 G 30002285.26 30002285.39 30002285.52 0.2620 0.0051

Earth 77431-05-14 21:36 G 30002285.27 30002285.40 30002285.53 0.2627 0.0059 *

Jupiter 77433-12-02 08:24 G 30003217.69 30003217.85 30003218.01 0.0534 0.0026

Mars 77438-02-02 13:27 G 30004740.94 30004741.06 30004741.18 0.1718 0.0435

Jupiter 77439-07-20 14:10 G 30005273.94 30005274.09 30005274.23 0.0494 0.0026

Uranus 77440-10-01 19:12 G 30005713.25 30005713.30 30005713.37 0.0144 0.0132

Uranus 77440-12-28 23:46 G 30005801.41 30005801.49 30005801.60 0.0144 0.0109

Uranus 77441-03-27 04:34 G 30005889.58 30005889.69 30005889.82 0.0143 0.0085

Uranus 77441-06-23 09:22 G 30005977.76 30005977.89 30005978.03 0.0143 0.0061

Uranus 77441-09-19 14:10 G 30006065.95 30006066.09 30006066.24 0.0143 0.0037

Uranus 77441-12-16 18:58 G 30006154.14 30006154.29 30006154.44 0.0143 0.0013

Uranus 77442-03-14 23:46 G 30006242.34 30006242.49 30006242.64 0.0143 0.0012

Uranus 77442-06-11 04:34 G 30006330.55 30006330.69 30006330.84 0.0143 0.0036

Uranus 77442-09-07 09:22 G 30006418.76 30006418.89 30006419.03 0.0143 0.0061

Uranus 77442-12-04 14:24 G 30006506.98 30006507.10 30006507.22 0.0143 0.0086

Uranus 77443-03-02 19:12 G 30006595.21 30006595.30 30006595.40 0.0143 0.0111

Uranus 77443-05-30 00:15 G 30006683.47 30006683.51 30006683.56 0.0143 0.0136

Saturn 77443-07-19 22:20 G 30006734.33 30006734.43 30006734.55 0.0288 0.0215

Saturn 77443-10-16 18:00 G 30006823.09 30006823.25 30006823.41 0.0287 0.0047

Saturn 77444-01-13 12:44 G 30006911.89 30006912.03 30006912.19 0.0287 0.0116

Saturn 77444-04-11 07:12 G 30007000.75 30007000.80 30007000.85 0.0286 0.0273

Moon 77444-05-16 18:00 G 30007036.14 30007036.25 30007036.36 0.2624 0.1367

Earth 77444-05-16 18:44 G 30007036.18 30007036.28 30007036.39 0.2627 0.1454 *

Jupiter 77445-09-20 08:24 G 30007527.71 30007527.85 30007527.99 0.0534 0.0249

Mars 77447-06-25 23:03 G 30008171.37 30008171.46 30008171.56 0.1712 0.1011

Mars 77448-05-09 00:15 G 30008489.38 30008489.51 30008489.65 0.1798 0.0935

Earth 77448-11-09 09:51 G 30008673.80 30008673.91 30008674.01 0.2706 0.1584

Moon 77448-11-09 10:48 G 30008673.84 30008673.95 30008674.07 0.2709 0.1374 *

Mars 77449-05-31 09:22 G 30008876.83 30008876.89 30008876.95 0.1737 0.1470

Neptune 77450-05-21 23:32 G 30009232.46 30009232.48 30009232.52 0.0088 0.0086

Neptune 77450-08-18 01:27 G 30009320.50 30009320.56 30009320.63 0.0088 0.0078

Neptune 77450-11-14 02:53 G 30009408.55 30009408.62 30009408.72 0.0088 0.0071

Neptune 77451-02-10 04:48 G 30009496.61 30009496.70 30009496.82 0.0088 0.0063

Jupiter 77451-05-08 17:32 G 30009584.10 30009584.23 30009584.36 0.0494 0.0186

Neptune 77451-05-09 06:44 G 30009584.67 30009584.78 30009584.91 0.0088 0.0055

Earth 77451-05-10 09:08 G 30009585.83 30009585.88 30009585.93 0.2626 0.2358

Moon 77451-05-10 10:05 G 30009585.85 30009585.92 30009585.98 0.2622 0.2193 *

Neptune 77451-08-05 08:39 G 30009672.74 30009672.86 30009672.99 0.0088 0.0047

Jupiter 77451-08-06 02:53 G 30009673.58 30009673.62 30009673.66 0.0492 0.0471

Neptune 77451-11-01 10:34 G 30009760.81 30009760.94 30009761.08 0.0088 0.0039

Neptune 77452-01-28 12:15 G 30009848.88 30009849.01 30009849.16 0.0088 0.0032

Neptune 77452-04-25 14:10 G 30009936.95 30009937.09 30009937.24 0.0088 0.0024

Neptune 77452-07-22 16:05 G 30010025.02 30010025.17 30010025.32 0.0088 0.0016

Neptune 77452-10-18 18:00 G 30010113.10 30010113.25 30010113.40 0.0088 0.0008

Neptune 77453-01-14 19:56 G 30010201.18 30010201.33 30010201.48 0.0088 0.0001

Neptune 77453-04-12 21:51 G 30010289.26 30010289.41 30010289.56 0.0088 0.0009

Neptune 77453-07-09 23:32 G 30010377.34 30010377.48 30010377.64 0.0088 0.0017

Neptune 77453-10-06 01:27 G 30010465.42 30010465.56 30010465.71 0.0088 0.0025

Neptune 77454-01-02 03:22 G 30010553.51 30010553.64 30010553.79 0.0088 0.0033

Neptune 77454-03-31 05:17 G 30010641.59 30010641.72 30010641.86 0.0088 0.0041

Neptune 77454-06-27 07:12 G 30010729.68 30010729.80 30010729.93 0.0088 0.0049

Neptune 77454-09-23 09:22 G 30010817.77 30010817.89 30010818.00 0.0088 0.0057

Neptune 77454-12-20 11:03 G 30010905.87 30010905.96 30010906.07 0.0088 0.0066

Neptune 77455-03-18 12:58 G 30010993.97 30010994.04 30010994.13 0.0088 0.0074

Neptune 77455-06-14 14:53 G 30011082.08 30011082.12 30011082.19 0.0088 0.0082

Mars 77456-11-15 09:08 G 30011601.84 30011601.88 30011601.93 0.1707 0.1559

Jupiter 77457-07-09 08:10 G 30011837.77 30011837.84 30011837.91 0.0533 0.0474

Mars 77457-09-28 23:32 G 30011919.32 30011919.48 30011919.64 0.1805 0.0153

Jupiter 77457-10-07 08:39 G 30011927.79 30011927.86 30011927.94 0.0536 0.0465

Mars 77458-10-21 18:29 G 30012307.16 30012307.27 30012307.37 0.1731 0.0837

Saturn 77458-10-24 12:29 G 30012309.91 30012310.02 30012310.14 0.0272 0.0158

Saturn 77459-01-21 00:58 G 30012398.40 30012398.54 30012398.69 0.0272 0.0041

Saturn 77459-04-19 13:41 G 30012486.94 30012487.07 30012487.21 0.0272 0.0081

Saturn 77459-07-17 02:39 G 30012575.52 30012575.61 30012575.71 0.0273 0.0204

Earth 77461-11-12 09:08 G 30013424.75 30013424.88 30013425.01 0.2706 0.0111

Moon 77461-11-12 10:05 G 30013424.79 30013424.92 30013425.05 0.2703 0.0133 *

Venus 77462-02-04 11:03 G 30013508.88 30013508.96 30013509.04 0.3720 0.3000

Jupiter 77463-02-24 20:53 G 30013894.28 30013894.37 30013894.48 0.0495 0.0344

Jupiter 77463-05-25 06:00 G 30013983.64 30013983.75 30013983.87 0.0492 0.0310

Earth 77464-05-12 06:00 G 30014336.63 30014336.75 30014336.86 0.2626 0.1043

Moon 77464-05-12 06:15 G 30014336.64 30014336.76 30014336.87 0.2620 0.1071 *

Mars 77467-02-18 22:34 G 30015349.33 30015349.44 30015349.55 0.1813 0.1267

Venus 77467-08-21 10:48 G 30015532.84 30015532.95 30015533.06 0.3718 0.1987

Mars 77468-03-13 03:51 G 30015737.54 30015737.66 30015737.78 0.1725 0.0235

Jupiter 77469-07-26 08:10 G 30016237.69 30016237.84 30016237.98 0.0534 0.0230

Saturn 77472-12-05 22:05 G 30017466.36 30017466.42 30017466.48 0.0289 0.0267

Saturn 77473-03-04 17:32 G 30017555.08 30017555.23 30017555.39 0.0288 0.0098

Saturn 77473-06-01 12:44 G 30017643.87 30017644.03 30017644.19 0.0288 0.0068

Saturn 77473-08-29 07:27 G 30017732.71 30017732.81 30017732.90 0.0287 0.0228

Venus 77474-09-17 03:51 G 30018116.56 30018116.66 30018116.76 0.3652 0.1706

Earth 77474-11-15 08:10 G 30018175.74 30018175.84 30018175.94 0.2706 0.1734

Moon 77474-11-15 08:39 G 30018175.76 30018175.86 30018175.95 0.2699 0.1838 *

Jupiter 77475-03-13 09:22 G 30018293.75 30018293.89 30018294.02 0.0494 0.0145

Moon 77477-05-15 02:39 G 30019087.48 30019087.61 30019087.73 0.2620 0.0355

Earth 77477-05-15 02:53 G 30019087.49 30019087.62 30019087.75 0.2627 0.0326 *

Mars 77477-08-03 13:27 G 30019167.94 30019168.06 30019168.18 0.1718 0.0363

Venus 77480-04-01 21:36 G 30020140.29 30020140.40 30020140.50 0.3653 0.1302

Jupiter 77481-05-14 07:27 G 30020547.65 30020547.81 30020547.97 0.0534 0.0011

Uranus 77483-07-14 11:46 G 30021338.91 30021338.99 30021339.09 0.0135 0.0113

Uranus 77483-10-10 17:17 G 30021427.10 30021427.22 30021427.34 0.0135 0.0090

Uranus 77484-01-06 22:20 G 30021515.29 30021515.43 30021515.58 0.0135 0.0068

Uranus 77484-04-04 03:22 G 30021603.50 30021603.64 30021603.81 0.0135 0.0046

Uranus 77484-07-01 08:39 G 30021691.70 30021691.86 30021692.03 0.0135 0.0023

Uranus 77484-09-27 13:56 G 30021779.91 30021780.08 30021780.24 0.0135 0.0004

Uranus 77484-12-24 18:44 G 30021868.12 30021868.28 30021868.45 0.0135 0.0021

Uranus 77485-03-22 23:46 G 30021956.34 30021956.49 30021956.65 0.0135 0.0042

Uranus 77485-06-19 04:48 G 30022044.56 30022044.70 30022044.84 0.0135 0.0064

Uranus 77485-09-15 09:22 G 30022132.78 30022132.89 30022133.03 0.0135 0.0086

Uranus 77485-12-12 14:24 G 30022221.01 30022221.10 30022221.21 0.0135 0.0107

Uranus 77486-03-10 19:12 G 30022309.26 30022309.30 30022309.36 0.0135 0.0128

Mars 77486-12-24 23:17 G 30022598.37 30022598.47 30022598.57 0.1712 0.0939

Jupiter 77486-12-30 12:44 G 30022603.89 30022604.03 30022604.18 0.0494 0.0017

Mars 77487-11-08 00:44 G 30022916.40 30022916.53 30022916.66 0.1798 0.1029

Saturn 77488-03-12 15:08 G 30023042.03 30023042.13 30023042.24 0.0271 0.0186

Saturn 77488-06-09 03:36 G 30023130.51 30023130.65 30023130.79 0.0271 0.0070

Saturn 77488-09-05 16:20 G 30023219.04 30023219.18 30023219.32 0.0272 0.0050

Mars 77488-11-29 09:22 G 30023303.83 30023303.89 30023303.94 0.1737 0.1541

Saturn 77488-12-03 05:17 G 30023307.61 30023307.72 30023307.83 0.0272 0.0172

Moon 77490-05-17 23:17 G 30023838.36 30023838.47 30023838.57 0.2625 0.1594

Earth 77490-05-18 00:00 G 30023838.41 30023838.50 30023838.60 0.2627 0.1734 *

Jupiter 77493-03-02 06:44 G 30024857.64 30024857.78 30024857.92 0.0533 0.0243

Earth 77494-11-10 15:22 G 30025476.02 30025476.14 30025476.25 0.2706 0.1260

Moon 77494-11-10 16:20 G 30025476.07 30025476.18 30025476.30 0.2708 0.1215 *

Mars 77496-05-16 09:08 G 30026028.82 30026028.88 30026028.93 0.1706 0.1492

Mars 77497-03-30 00:15 G 30026346.35 30026346.51 30026346.67 0.1806 0.0035

Earth 77497-05-10 14:24 G 30026388.03 30026388.10 30026388.17 0.2626 0.2105

Moon 77497-05-10 15:08 G 30026388.06 30026388.13 30026388.21 0.2622 0.2080 *

Mars 77498-04-21 18:29 G 30026734.17 30026734.27 30026734.37 0.1731 0.0910

Jupiter 77498-10-18 16:34 G 30026914.05 30026914.19 30026914.32 0.0495 0.0170

Jupiter 77499-01-16 01:56 G 30027003.57 30027003.58 30027003.59 0.0492 0.0489

Saturn 77502-07-23 16:20 G 30028287.04 30028287.18 30028287.32 0.0288 0.0155

Saturn 77502-10-20 11:32 G 30028375.82 30028375.98 30028376.15 0.0287 0.0012

Saturn 77503-01-17 06:15 G 30028464.63 30028464.76 30028464.89 0.0287 0.0172

Jupiter 77504-12-20 06:29 G 30029167.69 30029167.77 30029167.84 0.0533 0.0469

Jupiter 77505-03-20 06:58 G 30029257.72 30029257.79 30029257.86 0.0536 0.0470

Mars 77506-08-20 23:17 G 30029776.35 30029776.47 30029776.59 0.1812 0.1141

Mars 77507-09-13 03:51 G 30030164.54 30030164.66 30030164.78 0.1724 0.0296

Earth 77507-11-14 14:39 G 30030226.98 30030227.11 30030227.24 0.2706 0.0422

Moon 77507-11-14 15:36 G 30030227.02 30030227.15 30030227.27 0.2701 0.0605 *

Moon 77510-05-14 11:17 G 30031138.85 30031138.97 30031139.09 0.2620 0.0693

Earth 77510-05-14 11:17 G 30031138.85 30031138.97 30031139.09 0.2626 0.0781 *

Jupiter 77510-08-07 19:56 G 30031224.23 30031224.33 30031224.44 0.0495 0.0329

Jupiter 77510-11-05 05:03 G 30031313.60 30031313.71 30031313.82 0.0492 0.0324

Jupiter 77517-01-06 07:12 G 30033567.67 30033567.80 30033567.94 0.0535 0.0254

Mars 77517-02-02 13:27 G 30033594.94 30033595.06 30033595.18 0.1719 0.0294

Saturn 77517-07-31 15:36 G 30033774.08 30033774.15 30033774.22 0.0271 0.0233

Saturn 77517-10-28 03:51 G 30033862.54 30033862.66 30033862.79 0.0271 0.0119

Saturn 77518-01-24 16:34 G 30033951.04 30033951.19 30033951.33 0.0272 0.0007

Saturn 77518-04-23 05:17 G 30034039.59 30034039.72 30034039.85 0.0272 0.0121

Saturn 77518-07-20 18:15 G 30034128.20 30034128.26 30034128.33 0.0273 0.0245

Venus 77518-09-12 10:34 G 30034181.82 30034181.94 30034182.07 0.3719 0.1215

Earth 77520-11-16 13:41 G 30034977.98 30034978.07 30034978.15 0.2706 0.2041

Moon 77520-11-16 13:56 G 30034977.99 30034978.08 30034978.17 0.2699 0.1992 *

Jupiter 77522-05-26 23:46 G 30035534.46 30035534.49 30035534.51 0.0496 0.0485

Jupiter 77522-08-24 08:24 G 30035623.72 30035623.85 30035623.99 0.0493 0.0164

Moon 77523-05-17 07:41 G 30035889.70 30035889.82 30035889.95 0.2621 0.0479

Earth 77523-05-17 08:10 G 30035889.72 30035889.84 30035889.96 0.2627 0.0593 *

Venus 77524-03-28 10:20 G 30036205.92 30036205.93 30036205.95 0.3718 0.3687

Uranus 77524-10-23 02:24 G 30036414.53 30036414.60 30036414.67 0.0144 0.0126

Uranus 77525-01-19 06:44 G 30036502.69 30036502.78 30036502.89 0.0144 0.0103

Uranus 77525-04-17 11:32 G 30036590.86 30036590.98 30036591.11 0.0144 0.0079

Uranus 77525-07-14 16:20 G 30036679.04 30036679.18 30036679.32 0.0143 0.0055

Venus 77525-10-09 08:10 G 30036765.81 30036765.84 30036765.86 0.3651 0.3522

Uranus 77525-10-10 21:08 G 30036767.23 30036767.38 30036767.52 0.0143 0.0031

Uranus 77526-01-07 01:56 G 30036855.43 30036855.58 30036855.73 0.0143 0.0007

Uranus 77526-04-05 06:44 G 30036943.63 30036943.78 30036943.93 0.0143 0.0018

Mars 77526-06-25 23:17 G 30037025.36 30037025.47 30037025.57 0.1712 0.0867

Uranus 77526-07-02 11:17 G 30037031.84 30037031.97 30037032.12 0.0143 0.0043

Uranus 77526-09-28 16:20 G 30037120.05 30037120.18 30037120.32 0.0143 0.0067

Uranus 77526-12-25 21:08 G 30037208.27 30037208.38 30037208.50 0.0143 0.0092

Uranus 77527-03-24 02:10 G 30037296.51 30037296.59 30037296.68 0.0143 0.0116

Mars 77527-05-10 01:27 G 30037343.44 30037343.56 30037343.68 0.1798 0.1145

Uranus 77527-06-20 06:58 G 30037384.78 30037384.79 30037384.83 0.0143 0.0142

Earth 77527-11-09 21:22 G 30037527.37 30037527.39 30037527.40 0.2707 0.2674

Moon 77527-11-09 22:20 G 30037527.39 30037527.43 30037527.47 0.2711 0.2560 *

Mars 77528-05-31 09:22 G 30037730.85 30037730.89 30037730.93 0.1737 0.1616

Jupiter 77528-10-25 06:44 G 30037877.62 30037877.78 30037877.94 0.0534 0.0022

Venus 77531-04-25 01:41 G 30038789.46 30038789.57 30038789.68 0.3652 0.0599

Saturn 77531-12-10 15:08 G 30039019.02 30039019.13 30039019.24 0.0289 0.0213

Saturn 77532-03-08 10:48 G 30039107.78 30039107.95 30039108.11 0.0288 0.0045

Saturn 77532-06-05 05:46 G 30039196.59 30039196.74 30039196.89 0.0288 0.0120

Neptune 77532-09-01 13:41 G 30039285.04 30039285.07 30039285.10 0.0090 0.0088

Saturn 77532-09-02 00:15 G 30039285.47 30039285.51 30039285.55 0.0288 0.0279

Neptune 77532-11-28 15:51 G 30039373.10 30039373.16 30039373.25 0.0090 0.0079

Neptune 77533-02-24 18:15 G 30039461.18 30039461.26 30039461.38 0.0090 0.0070

Neptune 77533-05-23 21:08 G 30039549.26 30039549.38 30039549.51 0.0090 0.0060

Neptune 77533-08-19 23:32 G 30039637.35 30039637.48 30039637.63 0.0090 0.0051

Neptune 77533-11-16 02:10 G 30039725.45 30039725.59 30039725.74 0.0090 0.0041

Neptune 77534-02-12 04:34 G 30039813.54 30039813.69 30039813.85 0.0090 0.0032

Neptune 77534-05-11 06:58 G 30039901.64 30039901.79 30039901.96 0.0090 0.0023

Jupiter 77534-06-12 11:32 G 30039933.84 30039933.98 30039934.12 0.0494 0.0004

Neptune 77534-08-07 09:36 G 30039989.74 30039989.90 30039990.06 0.0090 0.0013

Neptune 77534-11-03 12:00 G 30040077.84 30040078.00 30040078.17 0.0090 0.0004

Neptune 77535-01-30 14:24 G 30040165.94 30040166.10 30040166.27 0.0090 0.0005

Neptune 77535-04-28 16:48 G 30040254.04 30040254.20 30040254.36 0.0090 0.0014

Neptune 77535-07-25 19:12 G 30040342.15 30040342.30 30040342.46 0.0090 0.0024

Neptune 77535-10-21 21:36 G 30040430.25 30040430.40 30040430.55 0.0090 0.0033

Mars 77535-11-16 09:08 G 30040455.81 30040455.88 30040455.94 0.1706 0.1423

Neptune 77536-01-17 23:46 G 30040518.36 30040518.49 30040518.65 0.0090 0.0042

Neptune 77536-04-15 02:10 G 30040606.47 30040606.59 30040606.73 0.0090 0.0051

Moon 77536-05-19 04:20 G 30040640.60 30040640.68 30040640.77 0.2626 0.1950

Earth 77536-05-19 05:32 G 30040640.64 30040640.73 30040640.81 0.2627 0.2007 *

Neptune 77536-07-12 04:34 G 30040694.58 30040694.69 30040694.82 0.0090 0.0060

Mars 77536-09-29 00:44 G 30040773.38 30040773.53 30040773.69 0.1805 0.0098

Neptune 77536-10-08 06:44 G 30040782.69 30040782.78 30040782.90 0.0090 0.0069

Venus 77536-11-07 19:27 G 30040813.23 30040813.31 30040813.40 0.3653 0.2438

Neptune 77537-01-04 09:08 G 30040870.81 30040870.88 30040870.97 0.0090 0.0078

Neptune 77537-04-02 11:46 G 30040958.95 30040958.99 30040959.03 0.0090 0.0086

Mars 77537-10-21 18:29 G 30041161.17 30041161.27 30041161.37 0.1731 0.0981

Jupiter 77540-08-13 06:00 G 30042187.60 30042187.75 30042187.89 0.0533 0.0216

Earth 77540-11-11 20:53 G 30042278.25 30042278.37 30042278.49 0.2706 0.0940

Moon 77540-11-11 22:05 G 30042278.29 30042278.42 30042278.54 0.2706 0.0783 *

Earth 77543-05-12 19:41 G 30043190.23 30043190.32 30043190.40 0.2626 0.1852

Moon 77543-05-12 20:24 G 30043190.25 30043190.35 30043190.44 0.2622 0.1727 *

Mars 77546-02-18 23:46 G 30044203.36 30044203.49 30044203.62 0.1813 0.1036

Jupiter 77546-03-31 15:08 G 30044243.99 30044244.13 30044244.26 0.0495 0.0161

Saturn 77546-12-18 18:29 G 30044506.24 30044506.27 30044506.31 0.0271 0.0260

Mars 77547-03-14 03:51 G 30044591.54 30044591.66 30044591.78 0.1724 0.0369

Saturn 77547-03-17 06:44 G 30044594.66 30044594.78 30044594.90 0.0271 0.0146

Saturn 77547-06-13 19:12 G 30044683.15 30044683.30 30044683.44 0.0271 0.0029

Saturn 77547-09-10 07:56 G 30044771.69 30044771.83 30044771.97 0.0272 0.0091

Saturn 77547-12-07 20:53 G 30044860.28 30044860.37 30044860.46 0.0272 0.0214

Jupiter 77552-06-01 04:48 G 30046497.62 30046497.70 30046497.78 0.0532 0.0459

Jupiter 77552-08-30 05:17 G 30046587.65 30046587.72 30046587.79 0.0535 0.0478

Pluto 77553-05-21 22:48 G 30046852.36 30046852.45 30046852.54 0.0063 0.0053

Pluto 77553-08-17 23:17 G 30046940.37 30046940.47 30046940.61 0.0063 0.0043

Pluto 77553-11-14 00:15 G 30047028.38 30047028.51 30047028.66 0.0063 0.0032

Earth 77553-11-14 20:10 G 30047029.21 30047029.34 30047029.47 0.2706 0.0732

Moon 77553-11-14 21:08 G 30047029.25 30047029.38 30047029.50 0.2701 0.0746 *

Pluto 77554-02-10 01:12 G 30047116.41 30047116.55 30047116.71 0.0064 0.0021

Pluto 77554-05-09 02:10 G 30047204.43 30047204.59 30047204.76 0.0064 0.0010

Pluto 77554-08-05 03:08 G 30047292.47 30047292.63 30047292.79 0.0064 0.0001

Pluto 77554-11-01 03:51 G 30047380.51 30047380.66 30047380.83 0.0064 0.0012

Pluto 77555-01-28 04:48 G 30047468.55 30047468.70 30047468.85 0.0064 0.0022

Pluto 77555-04-26 05:32 G 30047556.60 30047556.73 30047556.88 0.0064 0.0033

Pluto 77555-07-23 06:15 G 30047644.66 30047644.76 30047644.89 0.0064 0.0045

Pluto 77555-10-19 07:12 G 30047732.73 30047732.80 30047732.89 0.0064 0.0055

Moon 77556-05-14 16:20 G 30047941.06 30047941.18 30047941.31 0.2619 0.0585

Earth 77556-05-14 16:20 G 30047941.06 30047941.18 30047941.31 0.2626 0.0519 *

Mars 77556-08-03 13:27 G 30048021.94 30048022.06 30048022.18 0.1718 0.0225

Jupiter 77558-01-17 18:44 G 30048554.18 30048554.28 30048554.40 0.0495 0.0315

Jupiter 77558-04-17 03:51 G 30048643.56 30048643.66 30048643.77 0.0493 0.0341

Saturn 77561-04-28 13:56 G 30049751.03 30049751.08 30049751.14 0.0289 0.0270

Saturn 77561-07-26 09:36 G 30049839.75 30049839.90 30049840.06 0.0288 0.0100

Saturn 77561-10-23 04:48 G 30049928.54 30049928.70 30049928.87 0.0288 0.0066

Saturn 77562-01-19 23:17 G 30050017.38 30050017.47 30050017.58 0.0287 0.0227

Jupiter 77564-06-18 05:32 G 30050897.59 30050897.73 30050897.87 0.0535 0.0259

Mars 77565-12-24 23:03 G 30051452.35 30051452.46 30051452.57 0.1712 0.0805

Mars 77566-11-08 02:10 G 30051770.48 30051770.59 30051770.70 0.1798 0.1265

Moon 77566-11-17 19:12 G 30051780.24 30051780.30 30051780.35 0.2699 0.2412

Earth 77566-11-17 19:12 G 30051780.24 30051780.30 30051780.36 0.2706 0.2344 *

Uranus 77567-05-08 13:12 G 30051952.02 30051952.05 30051952.11 0.0134 0.0130

Uranus 77567-08-04 18:44 G 30052040.18 30052040.28 30052040.38 0.0135 0.0107

Uranus 77567-10-31 23:46 G 30052128.37 30052128.49 30052128.63 0.0135 0.0085

Mars 77567-11-30 09:22 G 30052157.86 30052157.89 30052157.92 0.1737 0.1679

Uranus 77568-01-28 05:03 G 30052216.57 30052216.71 30052216.86 0.0135 0.0062

Uranus 77568-04-25 10:20 G 30052304.77 30052304.93 30052305.09 0.0135 0.0040

Uranus 77568-07-22 15:22 G 30052392.98 30052393.14 30052393.31 0.0135 0.0018

Uranus 77568-10-18 20:39 G 30052481.19 30052481.36 30052481.52 0.0135 0.0005

Uranus 77569-01-15 01:27 G 30052569.41 30052569.56 30052569.73 0.0135 0.0027

Uranus 77569-04-13 06:29 G 30052657.62 30052657.77 30052657.93 0.0135 0.0048

Moon 77569-05-17 12:44 G 30052691.91 30052692.03 30052692.15 0.2622 0.0865

Earth 77569-05-17 13:27 G 30052691.94 30052692.06 30052692.18 0.2627 0.0863 *

Uranus 77569-07-10 11:17 G 30052745.84 30052745.97 30052746.12 0.0135 0.0070

Uranus 77569-10-06 16:20 G 30052834.07 30052834.18 30052834.30 0.0135 0.0091

Jupiter 77569-11-05 22:20 G 30052864.40 30052864.43 30052864.48 0.0496 0.0472

Uranus 77570-01-02 21:08 G 30052922.30 30052922.38 30052922.48 0.0135 0.0112

Jupiter 77570-02-03 07:27 G 30052953.67 30052953.81 30052953.94 0.0493 0.0179

Uranus 77570-04-01 01:56 G 30053010.57 30053010.58 30053010.61 0.0135 0.0133

Earth 77573-11-10 02:53 G 30054329.56 30054329.62 30054329.68 0.2707 0.2347

Moon 77573-11-10 03:51 G 30054329.59 30054329.66 30054329.73 0.2711 0.2276 *

Venus 77575-04-19 10:20 G 30054854.80 30054854.93 30054855.06 0.3719 0.0568

Mars 77575-05-17 09:08 G 30054882.81 30054882.88 30054882.95 0.1707 0.1351

Mars 77576-03-30 01:27 G 30055200.41 30055200.56 30055200.72 0.1805 0.0198

Jupiter 77576-04-06 05:46 G 30055207.58 30055207.74 30055207.89 0.0534 0.0042

Saturn 77576-08-03 06:58 G 30055326.70 30055326.79 30055326.89 0.0271 0.0194

Saturn 77576-10-30 19:27 G 30055415.17 30055415.31 30055415.45 0.0271 0.0078

Saturn 77577-01-27 07:56 G 30055503.69 30055503.83 30055503.98 0.0272 0.0042

Mars 77577-04-21 18:29 G 30055588.17 30055588.27 30055588.37 0.1731 0.1049

Saturn 77577-04-25 20:53 G 30055592.25 30055592.37 30055592.49 0.0272 0.0162

Jupiter 77581-11-22 10:48 G 30057263.81 30057263.95 30057264.09 0.0494 0.0018

Venus 77582-05-16 06:00 G 30057438.67 30057438.75 30057438.83 0.3651 0.2438

Moon 77582-05-20 09:51 G 30057442.83 30057442.91 30057442.98 0.2626 0.2111

Earth 77582-05-20 10:48 G 30057442.89 30057442.95 30057443.01 0.2627 0.2286 *

Mars 77585-08-20 00:29 G 30058630.39 30058630.52 30058630.66 0.1813 0.0910

Mars 77586-09-12 03:51 G 30059018.55 30059018.66 30059018.78 0.1724 0.0442

Earth 77586-11-13 02:24 G 30059080.48 30059080.60 30059080.73 0.2706 0.0625

Moon 77586-11-13 03:36 G 30059080.52 30059080.65 30059080.78 0.2704 0.0513 *

Venus 77587-11-29 23:46 G 30059462.38 30059462.49 30059462.60 0.3652 0.0530

Jupiter 77588-01-24 05:03 G 30059517.56 30059517.71 30059517.86 0.0533 0.0192

Earth 77589-05-13 00:58 G 30059992.44 30059992.54 30059992.63 0.2626 0.1591

Moon 77589-05-13 01:27 G 30059992.46 30059992.56 30059992.66 0.2621 0.1547 *

Saturn 77590-12-13 08:24 G 30060571.71 30060571.85 30060571.99 0.0289 0.0159

Saturn 77591-03-12 03:51 G 30060660.49 30060660.66 30060660.82 0.0288 0.0009

Saturn 77591-06-08 22:34 G 30060749.31 30060749.44 30060749.58 0.0288 0.0172

Venus 77593-06-14 17:32 G 30061486.21 30061486.23 30061486.25 0.3654 0.3580

Jupiter 77593-09-10 13:56 G 30061573.94 30061574.08 30061574.21 0.0495 0.0150

Mars 77596-02-02 13:27 G 30062448.94 30062449.06 30062449.18 0.1718 0.0158

Jupiter 77599-11-12 04:20 G 30063827.59 30063827.68 30063827.77 0.0532 0.0429

Earth 77599-11-16 01:41 G 30063831.45 30063831.57 30063831.69 0.2706 0.1044

Moon 77599-11-16 02:24 G 30063831.48 30063831.60 30063831.72 0.2701 0.1188 *

Jupiter 77600-02-10 04:34 G 30063917.65 30063917.69 30063917.74 0.0535 0.0505

Moon 77602-05-15 21:36 G 30064743.27 30064743.40 30064743.53 0.2619 0.0198

Earth 77602-05-15 21:36 G 30064743.28 30064743.40 30064743.53 0.2626 0.0257 *

Mars 77605-06-24 23:17 G 30065879.36 30065879.47 30065879.57 0.1712 0.0732

Jupiter 77605-06-29 17:17 G 30065884.12 30065884.22 30065884.34 0.0496 0.0308

Jupiter 77605-09-27 02:39 G 30065973.51 30065973.61 30065973.71 0.0493 0.0349

Saturn 77605-12-21 10:05 G 30066058.84 30066058.92 30066059.00 0.0270 0.0219

Saturn 77606-03-19 22:20 G 30066147.30 30066147.43 30066147.56 0.0271 0.0104

Mars 77606-05-09 02:24 G 30066197.50 30066197.60 30066197.70 0.1798 0.1361

Saturn 77606-06-16 10:48 G 30066235.81 30066235.95 30066236.10 0.0271 0.0015

Saturn 77606-09-12 23:32 G 30066324.36 30066324.48 30066324.61 0.0272 0.0135

Saturn 77606-12-10 12:29 G 30066412.99 30066413.02 30066413.08 0.0272 0.0258

Uranus 77608-11-12 09:08 G 30067115.80 30067115.88 30067115.96 0.0144 0.0121

Uranus 77609-02-08 13:41 G 30067203.97 30067204.07 30067204.18 0.0144 0.0097

Uranus 77609-05-07 18:29 G 30067292.14 30067292.27 30067292.39 0.0144 0.0074

Uranus 77609-08-03 23:03 G 30067380.32 30067380.46 30067380.60 0.0143 0.0050

Uranus 77609-10-31 03:51 G 30067468.51 30067468.66 30067468.81 0.0143 0.0026

Uranus 77610-01-27 08:39 G 30067556.71 30067556.86 30067557.01 0.0143 0.0003

Uranus 77610-04-25 13:27 G 30067644.91 30067645.06 30067645.21 0.0143 0.0023

Uranus 77610-07-22 18:15 G 30067733.12 30067733.26 30067733.40 0.0143 0.0047

Uranus 77610-10-18 23:03 G 30067821.33 30067821.46 30067821.59 0.0143 0.0071

Uranus 77611-01-15 03:51 G 30067909.56 30067909.66 30067909.78 0.0143 0.0096

Uranus 77611-04-13 08:39 G 30067997.79 30067997.86 30067997.95 0.0143 0.0122

Jupiter 77611-11-29 03:51 G 30068227.53 30068227.66 30068227.80 0.0534 0.0268

Moon 77612-11-18 00:29 G 30068582.48 30068582.52 30068582.56 0.2698 0.2538

Earth 77612-11-18 00:29 G 30068582.50 30068582.52 30068582.55 0.2705 0.2647 *

Mars 77614-11-15 09:08 G 30069309.80 30069309.88 30069309.95 0.1706 0.1289

Neptune 77615-02-16 23:17 G 30069403.42 30069403.47 30069403.53 0.0088 0.0080

Neptune 77615-05-16 00:44 G 30069491.47 30069491.53 30069491.63 0.0088 0.0073

Moon 77615-05-18 18:00 G 30069494.13 30069494.25 30069494.36 0.2623 0.0977

Earth 77615-05-18 18:44 G 30069494.17 30069494.28 30069494.39 0.2627 0.1134 *

Neptune 77615-08-12 02:39 G 30069579.52 30069579.61 30069579.72 0.0088 0.0065

Mars 77615-09-29 02:10 G 30069627.43 30069627.59 30069627.74 0.1806 0.0312

Neptune 77615-11-08 04:34 G 30069667.59 30069667.69 30069667.81 0.0088 0.0057

Neptune 77616-02-04 06:29 G 30069755.65 30069755.77 30069755.90 0.0088 0.0049

Neptune 77616-05-02 08:10 G 30069843.72 30069843.84 30069843.98 0.0088 0.0042

Neptune 77616-07-29 10:05 G 30069931.79 30069931.92 30069932.07 0.0088 0.0034

Mars 77616-10-20 18:29 G 30070015.18 30070015.27 30070015.36 0.1731 0.1120

Neptune 77616-10-25 12:00 G 30070019.86 30070020.00 30070020.15 0.0088 0.0026

Neptune 77617-01-21 13:56 G 30070107.93 30070108.08 30070108.23 0.0088 0.0018

Jupiter 77617-04-17 21:22 G 30070194.34 30070194.39 30070194.44 0.0496 0.0460

Neptune 77617-04-19 15:51 G 30070196.01 30070196.16 30070196.31 0.0088 0.0010

Jupiter 77617-07-16 06:15 G 30070283.62 30070283.76 30070283.89 0.0494 0.0192

Neptune 77617-07-16 17:46 G 30070284.08 30070284.24 30070284.39 0.0088 0.0003

Neptune 77617-10-12 19:27 G 30070372.16 30070372.31 30070372.47 0.0088 0.0007

Neptune 77618-01-08 21:22 G 30070460.24 30070460.39 30070460.54 0.0088 0.0014

Neptune 77618-04-06 23:17 G 30070548.33 30070548.47 30070548.62 0.0088 0.0022

Neptune 77618-07-04 00:58 G 30070636.41 30070636.54 30070636.70 0.0088 0.0031

Neptune 77618-09-30 02:53 G 30070724.49 30070724.62 30070724.77 0.0088 0.0039

Neptune 77618-12-27 04:48 G 30070812.58 30070812.70 30070812.84 0.0088 0.0047

Neptune 77619-03-25 06:44 G 30070900.67 30070900.78 30070900.91 0.0088 0.0055

Neptune 77619-06-21 08:53 G 30070988.77 30070988.87 30070988.98 0.0088 0.0063

Neptune 77619-09-17 10:48 G 30071076.87 30071076.95 30071077.04 0.0088 0.0071

Earth 77619-11-11 08:24 G 30071131.77 30071131.85 30071131.94 0.2707 0.2022

Moon 77619-11-11 09:22 G 30071131.80 30071131.89 30071131.99 0.2710 0.1866 *

Neptune 77619-12-14 12:29 G 30071164.97 30071165.02 30071165.10 0.0088 0.0080

Neptune 77620-03-11 14:53 G 30071253.12 30071253.12 30071253.12 0.0088 0.0088

Saturn 77620-05-01 07:27 G 30071303.70 30071303.81 30071303.93 0.0289 0.0213

Saturn 77620-07-29 03:08 G 30071392.46 30071392.63 30071392.79 0.0288 0.0044

Saturn 77620-10-25 22:05 G 30071481.27 30071481.42 30071481.57 0.0288 0.0120

Saturn 77621-01-22 16:34 G 30071570.16 30071570.19 30071570.23 0.0287 0.0279

Moon 77622-05-11 10:20 G 30072043.90 30072043.93 30072043.97 0.2625 0.2507

Jupiter 77623-09-17 03:51 G 30072537.50 30072537.66 30072537.82 0.0534 0.0044

Mars 77625-02-18 01:12 G 30073057.41 30073057.55 30073057.70 0.1812 0.0782

Mars 77626-03-13 03:51 G 30073445.54 30073445.66 30073445.77 0.1724 0.0505

Venus 77626-05-10 09:51 G 30073503.82 30073503.91 30073504.00 0.3720 0.2701

Moon 77628-05-20 15:08 G 30074245.10 30074245.13 30074245.16 0.2627 0.2526

Earth 77628-05-20 16:05 G 30074245.15 30074245.17 30074245.19 0.2627 0.2561 *

Jupiter 77629-05-04 09:36 G 30074593.76 30074593.90 30074594.04 0.0494 0.0031

Venus 77631-11-24 09:51 G 30075527.81 30075527.91 30075528.01 0.3719 0.2317

Earth 77632-11-13 07:56 G 30075882.70 30075882.83 30075882.96 0.2706 0.0318

Moon 77632-11-13 09:08 G 30075882.75 30075882.88 30075883.01 0.2703 0.0202 *

Saturn 77635-05-10 10:34 G 30076790.92 30076790.94 30076790.98 0.0271 0.0265

Earth 77635-05-14 06:00 G 30076794.65 30076794.75 30076794.86 0.2626 0.1335

Moon 77635-05-14 06:29 G 30076794.66 30076794.77 30076794.88 0.2620 0.1295 *

Jupiter 77635-07-06 03:51 G 30076847.51 30076847.66 30076847.81 0.0533 0.0177

Mars 77635-08-03 13:27 G 30076875.94 30076876.06 30076876.18 0.1718 0.0085

Saturn 77635-08-06 22:48 G 30076879.34 30076879.45 30076879.57 0.0271 0.0151

Saturn 77635-11-03 11:17 G 30076967.83 30076967.97 30076968.11 0.0271 0.0034

Saturn 77636-01-31 00:00 G 30077056.36 30077056.50 30077056.64 0.0272 0.0085

Saturn 77636-04-28 12:58 G 30077144.94 30077145.04 30077145.13 0.0272 0.0207

Venus 77638-12-21 04:05 G 30078111.56 30078111.67 30078111.77 0.3652 0.1346

Jupiter 77641-02-20 13:12 G 30078903.91 30078904.05 30078904.19 0.0495 0.0128

Pluto 77643-04-25 03:36 G 30079697.57 30079697.65 30079697.76 0.0081 0.0064

Pluto 77643-07-22 05:17 G 30079785.60 30079785.72 30079785.86 0.0081 0.0043

Pluto 77643-10-18 06:58 G 30079873.65 30079873.79 30079873.95 0.0081 0.0022

Pluto 77644-01-14 08:39 G 30079961.71 30079961.86 30079962.02 0.0081 0.0002

Pluto 77644-04-11 10:05 G 30080049.78 30080049.92 30080050.08 0.0080 0.0021

Venus 77644-07-05 21:36 G 30080135.30 30080135.40 30080135.50 0.3653 0.1655

Pluto 77644-07-08 12:00 G 30080137.87 30080138.00 30080138.13 0.0080 0.0041

Pluto 77644-10-04 13:27 G 30080225.97 30080226.06 30080226.16 0.0080 0.0061

Mars 77644-12-23 23:03 G 30080306.35 30080306.46 30080306.57 0.1712 0.0662

Mars 77645-11-07 03:08 G 30080624.54 30080624.63 30080624.72 0.1798 0.1474

Earth 77645-11-16 07:12 G 30080633.69 30080633.80 30080633.91 0.2706 0.1352

Moon 77645-11-16 07:41 G 30080633.71 30080633.82 30080633.94 0.2700 0.1371 *

Jupiter 77647-04-24 03:22 G 30081157.54 30081157.64 30081157.74 0.0532 0.0407

Jupiter 77647-07-23 03:36 G 30081247.63 30081247.65 30081247.68 0.0535 0.0527

Moon 77648-05-16 02:53 G 30081545.49 30081545.62 30081545.74 0.2620 0.0099

Earth 77648-05-16 02:53 G 30081545.50 30081545.62 30081545.75 0.2626 0.0052 *

Saturn 77649-09-18 05:32 G 30082035.69 30082035.73 30082035.78 0.0289 0.0277

Saturn 77649-12-16 01:27 G 30082124.41 30082124.56 30082124.72 0.0289 0.0106

Saturn 77650-03-14 20:39 G 30082213.20 30082213.36 30082213.53 0.0289 0.0062

Saturn 77650-06-11 15:22 G 30082302.05 30082302.14 30082302.25 0.0288 0.0223

Uranus 77651-05-28 20:10 G 30082653.28 30082653.34 30082653.40 0.0135 0.0124

Uranus 77651-08-25 01:12 G 30082741.45 30082741.55 30082741.67 0.0135 0.0102

Uranus 77651-11-21 06:44 G 30082829.64 30082829.78 30082829.91 0.0135 0.0079

Uranus 77652-02-17 11:46 G 30082917.84 30082917.99 30082918.14 0.0135 0.0057

Uranus 77652-05-15 16:48 G 30083006.05 30083006.20 30083006.37 0.0135 0.0035

Uranus 77652-08-11 22:05 G 30083094.26 30083094.42 30083094.59 0.0135 0.0012

Uranus 77652-11-08 03:08 G 30083182.47 30083182.63 30083182.80 0.0135 0.0010

Jupiter 77652-12-09 16:05 G 30083214.06 30083214.17 30083214.28 0.0496 0.0297

Uranus 77653-02-04 08:10 G 30083270.68 30083270.84 30083271.00 0.0135 0.0031

Jupiter 77653-03-09 01:12 G 30083303.46 30083303.55 30083303.65 0.0493 0.0360

Uranus 77653-05-03 13:12 G 30083358.90 30083359.05 30083359.20 0.0135 0.0053

Uranus 77653-07-30 18:00 G 30083447.12 30083447.25 30083447.39 0.0135 0.0075

Uranus 77653-10-26 23:03 G 30083535.35 30083535.46 30083535.58 0.0135 0.0096

Uranus 77654-01-23 03:51 G 30083623.59 30083623.66 30083623.74 0.0135 0.0117

Mars 77654-05-16 09:08 G 30083736.80 30083736.88 30083736.96 0.1706 0.1217

Mars 77655-03-30 02:39 G 30084054.46 30084054.61 30084054.77 0.1805 0.0432

Mars 77656-04-20 18:29 G 30084442.18 30084442.27 30084442.36 0.1731 0.1192

Jupiter 77659-05-11 03:22 G 30085557.51 30085557.64 30085557.77 0.0534 0.0297

Moon 77661-05-18 23:03 G 30086296.36 30086296.46 30086296.57 0.2623 0.1381

Earth 77661-05-19 00:00 G 30086296.39 30086296.50 30086296.61 0.2627 0.1410 *

Mars 77664-08-19 01:41 G 30087484.42 30087484.57 30087484.71 0.1813 0.0683

Jupiter 77664-09-27 19:41 G 30087524.27 30087524.32 30087524.38 0.0496 0.0455

Saturn 77664-12-24 01:56 G 30087611.47 30087611.58 30087611.69 0.0270 0.0176

Jupiter 77664-12-26 04:34 G 30087613.56 30087613.69 30087613.82 0.0494 0.0198

Saturn 77665-03-22 14:10 G 30087699.96 30087700.09 30087700.24 0.0271 0.0061

Saturn 77665-06-19 02:53 G 30087788.48 30087788.62 30087788.76 0.0271 0.0058

Mars 77665-09-11 03:51 G 30087872.55 30087872.66 30087872.78 0.1724 0.0577

Saturn 77665-09-15 15:36 G 30087877.05 30087877.15 30087877.26 0.0272 0.0180

Earth 77665-11-11 14:10 G 30087933.99 30087934.09 30087934.19 0.2707 0.1693

Moon 77665-11-11 15:08 G 30087934.03 30087934.13 30087934.24 0.2708 0.1652 *

Earth 77668-05-11 14:39 G 30088846.06 30088846.11 30088846.16 0.2626 0.2387

Moon 77668-05-11 15:36 G 30088846.09 30088846.15 30088846.20 0.2624 0.2350 *

Jupiter 77671-02-27 02:10 G 30089867.44 30089867.59 30089867.75 0.0534 0.0057

Mars 77674-01-09 00:15 G 30090914.51 30090914.51 30090914.52 0.1820 0.1818

Mars 77675-02-01 13:27 G 30091302.94 30091303.06 30091303.18 0.1718 0.0031

Jupiter 77676-10-14 08:10 G 30091923.70 30091923.84 30091923.99 0.0494 0.0043

Earth 77678-11-14 13:41 G 30092684.94 30092685.07 30092685.20 0.2706 0.0059

Moon 77678-11-14 14:39 G 30092684.98 30092685.11 30092685.24 0.2704 0.0164 *

Saturn 77679-05-05 01:12 G 30092856.42 30092856.55 30092856.70 0.0289 0.0154

Saturn 77679-08-01 20:53 G 30092945.20 30092945.37 30092945.53 0.0288 0.0015

Saturn 77679-10-29 15:51 G 30093034.03 30093034.16 30093034.28 0.0288 0.0177

Earth 77681-05-14 11:17 G 30093596.86 30093596.97 30093597.09 0.2626 0.1071

Moon 77681-05-14 11:46 G 30093596.87 30093596.99 30093597.10 0.2620 0.1002 *

Venus 77682-12-15 09:36 G 30094176.77 30094176.90 30094177.03 0.3720 0.0892

Jupiter 77682-12-16 01:56 G 30094177.43 30094177.58 30094177.73 0.0533 0.0175

Mars 77684-06-23 23:03 G 30094733.35 30094733.46 30094733.57 0.1712 0.0595

Mars 77685-05-08 03:51 G 30095051.59 30095051.66 30095051.73 0.1798 0.1597

Jupiter 77688-08-02 11:46 G 30096233.85 30096233.99 30096234.13 0.0495 0.0118

Venus 77690-01-11 08:24 G 30096760.79 30096760.85 30096760.90 0.3651 0.3161

Earth 77691-11-17 12:44 G 30097435.93 30097436.03 30097436.13 0.2706 0.1660

Moon 77691-11-17 13:12 G 30097435.94 30097436.05 30097436.15 0.2699 0.1695 *

Uranus 77692-09-05 11:03 G 30097728.94 30097728.96 30097729.01 0.0144 0.0140

Uranus 77692-12-02 15:51 G 30097817.08 30097817.16 30097817.25 0.0144 0.0116

Uranus 77693-02-28 20:24 G 30097905.24 30097905.35 30097905.47 0.0144 0.0093

Uranus 77693-05-28 01:12 G 30097993.42 30097993.55 30097993.68 0.0143 0.0069

Uranus 77693-08-24 05:46 G 30098081.60 30098081.74 30098081.89 0.0143 0.0045

Mars 77693-11-14 09:08 G 30098163.79 30098163.88 30098163.96 0.1706 0.1148

Uranus 77693-11-20 10:34 G 30098169.79 30098169.94 30098170.09 0.0143 0.0021

Uranus 77694-02-16 15:22 G 30098257.99 30098258.14 30098258.29 0.0143 0.0003

Saturn 77694-05-13 02:53 G 30098343.54 30098343.62 30098343.70 0.0270 0.0219

Uranus 77694-05-15 20:10 G 30098346.19 30098346.34 30098346.49 0.0143 0.0027

Moon 77694-05-17 07:56 G 30098347.70 30098347.83 30098347.95 0.2621 0.0262

Earth 77694-05-17 08:10 G 30098347.72 30098347.84 30098347.97 0.2626 0.0291 *

Saturn 77694-08-09 14:53 G 30098431.99 30098432.12 30098432.26 0.0271 0.0105

Uranus 77694-08-12 00:58 G 30098434.40 30098434.54 30098434.68 0.0143 0.0052

Mars 77694-09-28 03:22 G 30098481.49 30098481.64 30098481.79 0.1805 0.0537

Jupiter 77694-10-04 01:41 G 30098487.47 30098487.57 30098487.68 0.0533 0.0399

Saturn 77694-11-06 03:36 G 30098520.50 30098520.65 30098520.79 0.0271 0.0015

Uranus 77694-11-08 05:46 G 30098522.61 30098522.74 30098522.87 0.0143 0.0076

Saturn 77695-02-02 16:05 G 30098609.05 30098609.17 30098609.30 0.0272 0.0133

Uranus 77695-02-04 10:34 G 30098610.84 30098610.94 30098611.05 0.0143 0.0101

Saturn 77695-05-02 05:03 G 30098697.67 30098697.71 30098697.77 0.0272 0.0256

Uranus 77695-05-03 15:22 G 30098699.08 30098699.14 30098699.22 0.0143 0.0126

Venus 77695-07-28 01:56 G 30098784.47 30098784.58 30098784.69 0.3652 0.0242

Mars 77695-10-20 18:29 G 30098869.19 30098869.27 30098869.35 0.1731 0.1258

Neptune 77697-05-29 12:44 G 30099455.98 30099456.03 30099456.11 0.0090 0.0082

Neptune 77697-08-25 15:36 G 30099544.05 30099544.15 30099544.25 0.0090 0.0072

Neptune 77697-11-21 17:46 G 30099632.14 30099632.24 30099632.37 0.0090 0.0063

Neptune 77698-02-17 20:39 G 30099720.23 30099720.36 30099720.49 0.0090 0.0053

Neptune 77698-05-16 23:03 G 30099808.32 30099808.46 30099808.61 0.0090 0.0044

Neptune 77698-08-13 01:27 G 30099896.42 30099896.56 30099896.72 0.0090 0.0035

Neptune 77698-11-09 04:05 G 30099984.51 30099984.67 30099984.83 0.0090 0.0025

Neptune 77699-02-05 06:29 G 30100072.61 30100072.77 30100072.94 0.0090 0.0016

Neptune 77699-05-04 09:08 G 30100160.71 30100160.88 30100161.04 0.0090 0.0007

Neptune 77699-07-31 11:32 G 30100248.81 30100248.98 30100249.14 0.0090 0.0003

Neptune 77699-10-27 13:56 G 30100336.92 30100337.08 30100337.24 0.0090 0.0012

Neptune 77700-01-23 16:20 G 30100425.02 30100425.18 30100425.34 0.0090 0.0021

Neptune 77700-04-21 18:44 G 30100513.13 30100513.28 30100513.43 0.0090 0.0030

Jupiter 77700-05-22 15:22 G 30100544.02 30100544.14 30100544.26 0.0495 0.0277

Neptune 77700-07-18 21:08 G 30100601.23 30100601.38 30100601.53 0.0090 0.0039

Jupiter 77700-08-20 00:29 G 30100633.43 30100633.52 30100633.61 0.0493 0.0379

Neptune 77700-10-14 23:32 G 30100689.34 30100689.48 30100689.62 0.0090 0.0048

Neptune 77701-01-11 01:56 G 30100777.45 30100777.58 30100777.70 0.0090 0.0057

Venus 77701-02-10 19:41 G 30100808.25 30100808.32 30100808.39 0.3653 0.2763

Neptune 77701-04-09 04:05 G 30100865.57 30100865.67 30100865.78 0.0090 0.0066

Neptune 77701-07-06 06:29 G 30100953.69 30100953.77 30100953.86 0.0090 0.0075

Neptune 77701-10-02 08:39 G 30101041.82 30101041.86 30101041.93 0.0090 0.0084

Mars 77703-04-07 19:12 G 30101594.29 30101594.30 30101594.31 0.1701 0.1686

Mars 77704-02-19 02:24 G 30101911.45 30101911.60 30101911.76 0.1813 0.0555

Mars 77705-03-13 03:51 G 30102299.55 30102299.66 30102299.78 0.1724 0.0651

Jupiter 77706-10-22 02:10 G 30102887.47 30102887.59 30102887.72 0.0534 0.0316

Moon 77707-05-21 04:34 G 30103098.58 30103098.69 30103098.79 0.2623 0.1533

Earth 77707-05-21 05:17 G 30103098.63 30103098.72 30103098.82 0.2627 0.1686 *

Saturn 77708-09-21 23:17 G 30103588.36 30103588.47 30103588.58 0.0289 0.0219

Saturn 77708-12-19 18:58 G 30103677.13 30103677.29 30103677.46 0.0289 0.0049

Saturn 77709-03-18 14:10 G 30103765.94 30103766.09 30103766.24 0.0288 0.0117

Saturn 77709-06-15 08:53 G 30103854.83 30103854.87 30103854.91 0.0288 0.0277

Earth 77711-11-13 19:41 G 30104736.21 30104736.32 30104736.44 0.2707 0.1368

Moon 77711-11-13 20:53 G 30104736.25 30104736.37 30104736.49 0.2707 0.1152 *

Jupiter 77712-03-10 18:15 G 30104854.20 30104854.26 30104854.32 0.0496 0.0447

Jupiter 77712-06-08 03:08 G 30104943.50 30104943.63 30104943.76 0.0494 0.0206

Mars 77713-07-11 00:44 G 30105341.48 30105341.53 30105341.59 0.1820 0.1708

Earth 77714-05-13 19:56 G 30105648.26 30105648.33 30105648.40 0.2626 0.2134

Moon 77714-05-13 20:39 G 30105648.28 30105648.36 30105648.44 0.2622 0.1985 *

Mars 77714-08-03 13:27 G 30105729.94 30105730.06 30105730.18 0.1718 0.0055

Jupiter 77718-08-10 01:41 G 30107197.41 30107197.57 30107197.73 0.0533 0.0083

Saturn 77723-10-01 06:00 G 30109075.69 30109075.75 30109075.81 0.0270 0.0242

Mars 77723-12-24 23:03 G 30109160.35 30109160.46 30109160.58 0.1712 0.0526

Saturn 77723-12-28 18:15 G 30109164.13 30109164.26 30109164.38 0.0270 0.0129

Saturn 77724-03-26 06:44 G 30109252.63 30109252.78 30109252.92 0.0271 0.0014

Jupiter 77724-03-27 06:29 G 30109253.63 30109253.77 30109253.92 0.0495 0.0045

Saturn 77724-06-22 19:12 G 30109341.17 30109341.30 30109341.44 0.0271 0.0108

Saturn 77724-09-19 08:10 G 30109429.77 30109429.84 30109429.92 0.0272 0.0229

Mars 77724-11-07 04:05 G 30109478.62 30109478.67 30109478.73 0.1798 0.1686

Earth 77724-11-15 19:12 G 30109487.17 30109487.30 30109487.43 0.2706 0.0331

Moon 77724-11-15 20:10 G 30109487.21 30109487.34 30109487.47 0.2703 0.0388 *

Earth 77727-05-16 16:34 G 30110399.07 30110399.19 30110399.31 0.2626 0.0812

Moon 77727-05-16 16:48 G 30110399.08 30110399.20 30110399.32 0.2620 0.0818 *

Jupiter 77730-05-29 00:15 G 30111507.36 30111507.51 30111507.66 0.0533 0.0166

Mars 77733-05-16 08:53 G 30112590.78 30112590.87 30112590.97 0.1706 0.1084

Mars 77734-03-30 04:05 G 30112908.52 30112908.67 30112908.81 0.1806 0.0654

Mars 77735-04-21 18:29 G 30113296.20 30113296.27 30113296.35 0.1731 0.1331

Uranus 77735-06-19 02:39 G 30113354.54 30113354.61 30113354.70 0.0135 0.0118

Uranus 77735-09-15 07:56 G 30113442.72 30113442.83 30113442.96 0.0135 0.0096

Uranus 77735-12-12 13:12 G 30113530.92 30113531.05 30113531.20 0.0135 0.0073

Jupiter 77736-01-14 10:20 G 30113563.79 30113563.93 30113564.07 0.0495 0.0113

Uranus 77736-03-09 18:29 G 30113619.12 30113619.27 30113619.43 0.0135 0.0051

Uranus 77736-06-05 23:46 G 30113707.33 30113707.49 30113707.65 0.0135 0.0029

Uranus 77736-09-02 04:48 G 30113795.54 30113795.70 30113795.87 0.0135 0.0007

Uranus 77736-11-29 10:05 G 30113883.75 30113883.92 30113884.08 0.0135 0.0016

Uranus 77737-02-25 14:53 G 30113971.97 30113972.12 30113972.28 0.0135 0.0038

Uranus 77737-05-24 19:56 G 30114060.19 30114060.33 30114060.48 0.0135 0.0059

Uranus 77737-08-21 00:44 G 30114148.41 30114148.53 30114148.67 0.0135 0.0081

Uranus 77737-11-17 05:46 G 30114236.64 30114236.74 30114236.85 0.0135 0.0102

Earth 77737-11-18 18:15 G 30114238.17 30114238.26 30114238.35 0.2706 0.1967

Moon 77737-11-18 18:29 G 30114238.18 30114238.27 30114238.36 0.2699 0.1999 *

Saturn 77738-02-08 23:32 G 30114320.42 30114320.48 30114320.56 0.0289 0.0262

Uranus 77738-02-13 10:48 G 30114324.89 30114324.95 30114325.02 0.0135 0.0123

Saturn 77738-05-08 19:27 G 30114409.16 30114409.31 30114409.47 0.0289 0.0091

Saturn 77738-08-05 14:53 G 30114497.96 30114498.12 30114498.28 0.0288 0.0075

Saturn 77738-11-02 09:22 G 30114586.81 30114586.89 30114586.99 0.0288 0.0237

Venus 77739-07-23 09:08 G 30114849.76 30114849.88 30114850.01 0.3720 0.0880

Moon 77740-05-18 12:58 G 30115149.91 30115150.04 30115150.16 0.2621 0.0515

Earth 77740-05-18 13:27 G 30115149.94 30115150.06 30115150.18 0.2627 0.0555 *

Jupiter 77742-03-16 23:32 G 30115817.38 30115817.48 30115817.59 0.0532 0.0399

Mars 77742-10-06 18:58 G 30116021.26 30116021.29 30116021.33 0.1701 0.1623

Mars 77743-08-20 03:08 G 30116338.48 30116338.63 30116338.79 0.1812 0.0432

Mars 77744-09-11 03:51 G 30116726.55 30116726.66 30116726.77 0.1724 0.0712

Moon 77744-11-11 02:24 G 30116787.57 30116787.60 30116787.62 0.2712 0.2642

Venus 77746-08-19 06:15 G 30117433.67 30117433.76 30117433.85 0.3651 0.2083

Jupiter 77747-11-02 13:56 G 30117873.96 30117874.08 30117874.20 0.0495 0.0270

Jupiter 77748-01-30 23:03 G 30117963.37 30117963.46 30117963.55 0.0493 0.0386

Venus 77752-03-03 23:46 G 30119457.38 30119457.49 30119457.60 0.3652 0.0860

Mars 77753-01-09 01:41 G 30119768.49 30119768.57 30119768.64 0.1820 0.1582

Saturn 77753-05-16 19:12 G 30119896.20 30119896.30 30119896.42 0.0270 0.0170

Moon 77753-05-21 09:51 G 30119900.82 30119900.91 30119901.00 0.2625 0.1898

Earth 77753-05-21 10:48 G 30119900.86 30119900.95 30119901.03 0.2627 0.1966 *

Saturn 77753-08-13 07:41 G 30119984.68 30119984.82 30119984.96 0.0271 0.0055

Saturn 77753-11-09 20:10 G 30120073.20 30120073.34 30120073.48 0.0271 0.0064

Mars 77754-02-01 13:27 G 30120156.94 30120157.06 30120157.18 0.1718 0.0122

Saturn 77754-02-06 08:53 G 30120161.77 30120161.87 30120161.98 0.0272 0.0185

Jupiter 77754-04-03 00:15 G 30120217.39 30120217.51 30120217.64 0.0535 0.0320

Earth 77757-11-14 01:27 G 30121538.43 30121538.56 30121538.68 0.2707 0.1046

Moon 77757-11-14 02:39 G 30121538.48 30121538.61 30121538.73 0.2706 0.1009 *

Jupiter 77759-08-21 17:32 G 30122184.16 30122184.23 30122184.30 0.0496 0.0428

Jupiter 77759-11-19 02:24 G 30122273.47 30122273.60 30122273.73 0.0494 0.0224

Earth 77760-05-14 01:12 G 30122450.46 30122450.55 30122450.63 0.2626 0.1877

Moon 77760-05-14 01:56 G 30122450.49 30122450.58 30122450.66 0.2621 0.1880 *

Mars 77763-06-24 23:03 G 30123587.35 30123587.46 30123587.58 0.1712 0.0456

Jupiter 77766-01-20 00:15 G 30124527.36 30124527.51 30124527.67 0.0533 0.0098

Saturn 77767-09-25 17:46 G 30125141.10 30125141.24 30125141.38 0.0289 0.0155

Saturn 77767-12-23 13:12 G 30125229.88 30125230.05 30125230.22 0.0289 0.0014

Saturn 77768-03-21 08:10 G 30125318.71 30125318.84 30125318.97 0.0288 0.0178

Earth 77770-11-17 00:44 G 30126289.41 30126289.53 30126289.66 0.2706 0.0649

Moon 77770-11-17 01:27 G 30126289.44 30126289.56 30126289.69 0.2702 0.0805 *

Jupiter 77771-09-07 05:03 G 30126583.57 30126583.71 30126583.85 0.0495 0.0049

Mars 77772-11-14 08:53 G 30127017.78 30127017.87 30127017.97 0.1706 0.1015

Moon 77773-05-16 21:51 G 30127201.29 30127201.41 30127201.54 0.2620 0.0484

Earth 77773-05-16 21:51 G 30127201.29 30127201.41 30127201.53 0.2626 0.0549 *

Mars 77773-09-28 04:34 G 30127335.55 30127335.69 30127335.83 0.1805 0.0765

Mars 77774-10-20 18:29 G 30127723.20 30127723.27 30127723.34 0.1730 0.1400

Uranus 77776-09-26 18:15 G 30128430.22 30128430.26 30128430.32 0.0144 0.0133

Uranus 77776-12-23 23:03 G 30128518.36 30128518.46 30128518.55 0.0144 0.0110

Uranus 77777-03-22 03:22 G 30128606.53 30128606.64 30128606.77 0.0144 0.0087

Uranus 77777-06-18 08:10 G 30128694.71 30128694.84 30128694.98 0.0143 0.0063

Uranus 77777-09-14 12:44 G 30128782.89 30128783.03 30128783.18 0.0143 0.0040

Jupiter 77777-11-07 23:32 G 30128837.33 30128837.48 30128837.64 0.0532 0.0139

Uranus 77777-12-11 17:32 G 30128871.09 30128871.23 30128871.38 0.0143 0.0015

Uranus 77778-03-09 22:20 G 30128959.28 30128959.43 30128959.58 0.0143 0.0009

Uranus 77778-06-06 03:08 G 30129047.48 30129047.63 30129047.78 0.0143 0.0033

Uranus 77778-09-02 07:56 G 30129135.69 30129135.83 30129135.97 0.0143 0.0058

Uranus 77778-11-29 12:44 G 30129223.91 30129224.03 30129224.16 0.0143 0.0083

Uranus 77779-02-25 17:32 G 30129312.14 30129312.23 30129312.34 0.0143 0.0107

Uranus 77779-05-24 22:20 G 30129400.39 30129400.43 30129400.50 0.0143 0.0133

Neptune 77779-08-18 20:53 G 30129486.34 30129486.37 30129486.43 0.0088 0.0083

Neptune 77779-11-14 22:48 G 30129574.38 30129574.45 30129574.54 0.0088 0.0075

Neptune 77780-02-11 00:44 G 30129662.44 30129662.53 30129662.63 0.0088 0.0067

Neptune 77780-05-09 02:39 G 30129750.50 30129750.61 30129750.72 0.0088 0.0059

Neptune 77780-08-05 04:05 G 30129838.56 30129838.67 30129838.80 0.0088 0.0052

Neptune 77780-11-01 06:00 G 30129926.63 30129926.75 30129926.89 0.0088 0.0044

Neptune 77781-01-28 07:56 G 30130014.70 30130014.83 30130014.97 0.0088 0.0036

Neptune 77781-04-26 09:51 G 30130102.77 30130102.91 30130103.05 0.0088 0.0028

Neptune 77781-07-23 11:46 G 30130190.84 30130190.99 30130191.13 0.0088 0.0020

Neptune 77781-10-19 13:27 G 30130278.91 30130279.06 30130279.21 0.0088 0.0012

Neptune 77782-01-15 15:22 G 30130366.99 30130367.14 30130367.29 0.0088 0.0004

Mars 77782-04-06 19:12 G 30130448.25 30130448.30 30130448.34 0.1700 0.1553

Neptune 77782-04-13 17:17 G 30130455.07 30130455.22 30130455.37 0.0088 0.0004

Neptune 77782-07-10 19:12 G 30130543.15 30130543.30 30130543.45 0.0088 0.0012

Saturn 77782-10-03 22:34 G 30130628.34 30130628.44 30130628.54 0.0270 0.0193

Neptune 77782-10-06 20:53 G 30130631.23 30130631.37 30130631.52 0.0088 0.0020

Saturn 77782-12-31 10:48 G 30130716.82 30130716.95 30130717.09 0.0271 0.0078

Neptune 77783-01-02 22:48 G 30130719.31 30130719.45 30130719.60 0.0088 0.0028

Mars 77783-02-18 03:36 G 30130765.50 30130765.65 30130765.81 0.1813 0.0328

Saturn 77783-03-29 23:17 G 30130805.33 30130805.47 30130805.62 0.0271 0.0040

Neptune 77783-04-01 00:44 G 30130807.40 30130807.53 30130807.67 0.0088 0.0036

Jupiter 77783-06-26 08:24 G 30130893.71 30130893.85 30130893.99 0.0495 0.0113

Saturn 77783-06-26 12:00 G 30130893.89 30130894.00 30130894.12 0.0271 0.0160 *

Neptune 77783-06-28 02:39 G 30130895.48 30130895.61 30130895.75 0.0088 0.0044

Neptune 77783-09-24 04:20 G 30130983.57 30130983.68 30130983.82 0.0088 0.0053

Earth 77783-11-19 23:46 G 30131040.42 30131040.49 30131040.56 0.2706 0.2274

Moon 77783-11-20 00:00 G 30131040.43 30131040.50 30131040.57 0.2699 0.2246 *

Neptune 77783-12-21 06:15 G 30131071.66 30131071.76 30131071.88 0.0088 0.0061

Mars 77784-03-12 03:51 G 30131153.55 30131153.66 30131153.77 0.1724 0.0786

Neptune 77784-03-18 08:10 G 30131159.76 30131159.84 30131159.95 0.0088 0.0069

Neptune 77784-06-14 10:20 G 30131247.86 30131247.93 30131248.01 0.0088 0.0077

Neptune 77784-09-10 12:15 G 30131335.98 30131336.01 30131336.05 0.0088 0.0085

Moon 77786-05-19 18:15 G 30131952.13 30131952.26 30131952.38 0.2621 0.0724

Earth 77786-05-19 18:44 G 30131952.16 30131952.28 30131952.40 0.2626 0.0825 *

Jupiter 77789-08-26 21:51 G 30133147.31 30133147.41 30133147.52 0.0532 0.0392

Venus 77790-08-13 08:39 G 30133498.76 30133498.86 30133498.96 0.3721 0.2431

Earth 77790-11-12 07:12 G 30133589.75 30133589.80 30133589.85 0.2707 0.2462

Moon 77790-11-12 08:10 G 30133589.78 30133589.84 30133589.90 0.2710 0.2401 *

Mars 77792-07-10 02:24 G 30134195.50 30134195.60 30134195.69 0.1820 0.1454

Mars 77793-08-02 13:27 G 30134583.94 30134584.06 30134584.18 0.1718 0.0190

Jupiter 77795-04-14 12:15 G 30135203.89 30135204.01 30135204.13 0.0496 0.0269

Jupiter 77795-07-12 21:08 G 30135293.30 30135293.38 30135293.47 0.0493 0.0390

Venus 77796-02-27 08:53 G 30135522.78 30135522.87 30135522.96 0.3719 0.2632

Saturn 77797-02-11 18:44 G 30135873.15 30135873.28 30135873.40 0.0289 0.0192

Saturn 77797-05-11 14:24 G 30135961.93 30135962.10 30135962.26 0.0289 0.0024

Saturn 77797-08-08 09:22 G 30136050.75 30136050.89 30136051.04 0.0288 0.0142

Moon 77799-05-22 15:08 G 30136703.05 30136703.13 30136703.20 0.2627 0.2137

Earth 77799-05-22 16:05 G 30136703.10 30136703.17 30136703.23 0.2627 0.2240 *

Pluto 77799-07-15 10:34 G 30136756.89 30136756.94 30136757.01 0.0063 0.0059

Pluto 77799-10-11 11:17 G 30136844.88 30136844.97 30136845.09 0.0063 0.0048

Pluto 77800-01-07 12:15 G 30136932.89 30136933.01 30136933.15 0.0063 0.0038

Pluto 77800-04-05 13:12 G 30137020.91 30137021.05 30137021.20 0.0063 0.0027

Pluto 77800-07-02 14:10 G 30137108.94 30137109.09 30137109.25 0.0064 0.0016

Pluto 77800-09-28 14:53 G 30137196.97 30137197.12 30137197.29 0.0064 0.0006

Pluto 77800-12-25 15:51 G 30137285.00 30137285.16 30137285.33 0.0064 0.0006

Pluto 77801-03-23 16:34 G 30137373.04 30137373.19 30137373.36 0.0064 0.0017

Pluto 77801-06-19 17:32 G 30137461.09 30137461.23 30137461.38 0.0064 0.0027

Jupiter 77801-09-13 22:05 G 30137547.29 30137547.42 30137547.55 0.0534 0.0315

Pluto 77801-09-15 18:15 G 30137549.14 30137549.26 30137549.40 0.0064 0.0038

Pluto 77801-12-12 19:12 G 30137637.21 30137637.30 30137637.41 0.0064 0.0049

Pluto 77802-03-10 19:56 G 30137725.29 30137725.33 30137725.40 0.0064 0.0060

Mars 77802-12-24 23:03 G 30138014.34 30138014.46 30138014.57 0.1712 0.0393

Venus 77803-03-27 04:05 G 30138106.57 30138106.67 30138106.78 0.3651 0.1005

Earth 77803-11-16 06:58 G 30138340.66 30138340.79 30138340.92 0.2706 0.0722

Moon 77803-11-16 08:10 G 30138340.71 30138340.84 30138340.97 0.2706 0.0509 *

Earth 77806-05-16 06:15 G 30139252.67 30139252.76 30139252.86 0.2626 0.1628

Moon 77806-05-16 06:58 G 30139252.69 30139252.79 30139252.89 0.2621 0.1478 *

Jupiter 77807-02-01 15:51 G 30139514.09 30139514.16 30139514.23 0.0496 0.0425

Jupiter 77807-05-02 00:44 G 30139603.40 30139603.53 30139603.65 0.0494 0.0228

Venus 77808-10-09 21:51 G 30140130.31 30140130.41 30140130.50 0.3652 0.1973

Saturn 77812-02-22 00:00 G 30141360.44 30141360.50 30141360.58 0.0270 0.0231

Mars 77812-05-16 09:08 G 30141444.78 30141444.88 30141444.98 0.1706 0.0943

Saturn 77812-05-20 12:15 G 30141448.88 30141449.01 30141449.14 0.0271 0.0117

Saturn 77812-08-17 00:44 G 30141537.38 30141537.53 30141537.67 0.0271 0.0003

Saturn 77812-11-13 13:12 G 30141625.93 30141626.05 30141626.19 0.0271 0.0120

Saturn 77813-02-10 02:10 G 30141714.53 30141714.59 30141714.66 0.0272 0.0241

Mars 77813-03-30 05:17 G 30141762.58 30141762.72 30141762.85 0.1805 0.0878

Jupiter 77813-07-02 22:05 G 30141857.26 30141857.42 30141857.58 0.0534 0.0093

Mars 77814-04-21 18:29 G 30142150.21 30142150.27 30142150.34 0.1731 0.1470

Earth 77816-11-18 06:15 G 30143091.64 30143091.76 30143091.88 0.2706 0.0964

Moon 77816-11-18 06:58 G 30143091.67 30143091.79 30143091.91 0.2700 0.0941 *

Jupiter 77819-02-18 04:05 G 30143913.53 30143913.67 30143913.81 0.0494 0.0066

Moon 77819-05-19 02:53 G 30144003.50 30144003.62 30144003.75 0.2620 0.0367

Earth 77819-05-19 03:08 G 30144003.50 30144003.63 30144003.75 0.2626 0.0293 *

Uranus 77819-07-10 09:08 G 30144055.80 30144055.88 30144055.98 0.0135 0.0114

Uranus 77819-10-06 14:39 G 30144143.99 30144144.11 30144144.24 0.0135 0.0091

Uranus 77820-01-02 19:41 G 30144232.19 30144232.32 30144232.48 0.0135 0.0069

Uranus 77820-03-31 01:12 G 30144320.39 30144320.55 30144320.71 0.0135 0.0046

Uranus 77820-06-27 06:15 G 30144408.60 30144408.76 30144408.93 0.0135 0.0024

Uranus 77820-09-23 11:32 G 30144496.81 30144496.98 30144497.14 0.0135 0.0002

Uranus 77820-12-20 16:34 G 30144585.03 30144585.19 30144585.35 0.0135 0.0020

Uranus 77821-03-18 21:36 G 30144673.25 30144673.40 30144673.56 0.0135 0.0042

Uranus 77821-06-15 02:39 G 30144761.47 30144761.61 30144761.75 0.0135 0.0064

Uranus 77821-09-11 07:27 G 30144849.69 30144849.81 30144849.94 0.0135 0.0086

Mars 77821-10-06 18:58 G 30144875.24 30144875.29 30144875.35 0.1700 0.1486

Uranus 77821-12-08 12:29 G 30144937.93 30144938.02 30144938.12 0.0135 0.0107

Uranus 77822-03-06 17:17 G 30145026.18 30145026.22 30145026.28 0.0135 0.0128

Mars 77822-08-20 04:20 G 30145192.53 30145192.68 30145192.84 0.1813 0.0208

Mars 77823-09-12 03:51 G 30145580.56 30145580.66 30145580.77 0.1724 0.0858

Jupiter 77825-04-20 21:51 G 30146167.26 30146167.41 30146167.57 0.0533 0.0131

Saturn 77826-07-02 16:48 G 30146605.12 30146605.20 30146605.27 0.0289 0.0257

Saturn 77826-09-29 12:29 G 30146693.86 30146694.02 30146694.18 0.0289 0.0086

Saturn 77826-12-27 07:56 G 30146782.67 30146782.83 30146782.99 0.0289 0.0081

Saturn 77827-03-26 02:39 G 30146871.53 30146871.61 30146871.70 0.0288 0.0243

Moon 77829-11-21 05:17 G 30147842.69 30147842.72 30147842.75 0.2699 0.2623

Earth 77829-11-21 05:17 G 30147842.69 30147842.72 30147842.76 0.2706 0.2578 *

Jupiter 77830-12-07 06:44 G 30148223.64 30148223.78 30148223.92 0.0495 0.0109

Mars 77832-01-10 02:53 G 30148622.51 30148622.62 30148622.73 0.1820 0.1342

Moon 77832-05-20 23:32 G 30148754.36 30148754.48 30148754.59 0.2621 0.1077

Earth 77832-05-21 00:00 G 30148754.39 30148754.50 30148754.62 0.2627 0.1099 *

Mars 77833-02-01 13:27 G 30149010.94 30149011.06 30149011.18 0.1718 0.0259

Earth 77836-11-13 12:58 G 30150391.96 30150392.04 30150392.12 0.2707 0.2135

Moon 77836-11-13 13:56 G 30150391.99 30150392.08 30150392.17 0.2709 0.1994 *

Jupiter 77837-02-06 21:08 G 30150477.26 30150477.38 30150477.49 0.0532 0.0368

Moon 77839-05-14 15:51 G 30151304.14 30151304.16 30151304.18 0.2623 0.2553

Saturn 77841-07-11 03:22 G 30152092.60 30152092.64 30152092.69 0.0270 0.0253

Saturn 77841-10-07 15:22 G 30152181.03 30152181.14 30152181.27 0.0270 0.0141

Saturn 77842-01-04 03:51 G 30152269.52 30152269.66 30152269.81 0.0271 0.0024

Saturn 77842-04-02 16:34 G 30152358.05 30152358.19 30152358.32 0.0271 0.0095

Mars 77842-06-24 23:03 G 30152441.34 30152441.46 30152441.58 0.1712 0.0320

Saturn 77842-06-30 05:17 G 30152446.64 30152446.72 30152446.81 0.0271 0.0217

Jupiter 77842-09-25 10:05 G 30152533.80 30152533.92 30152534.04 0.0496 0.0272

Jupiter 77842-12-23 19:12 G 30152623.21 30152623.30 30152623.39 0.0493 0.0386

Moon 77845-05-23 20:24 G 30153505.30 30153505.35 30153505.40 0.2628 0.2385

Earth 77845-05-23 21:22 G 30153505.36 30153505.39 30153505.42 0.2627 0.2521 *

Venus 77847-03-21 08:24 G 30154171.72 30154171.85 30154171.98 0.3720 0.0612

Jupiter 77849-02-23 20:10 G 30154877.22 30154877.34 30154877.47 0.0534 0.0319

Earth 77849-11-16 12:29 G 30155142.89 30155143.02 30155143.15 0.2707 0.0401

Moon 77849-11-16 13:41 G 30155142.94 30155143.07 30155143.20 0.2705 0.0354 *

Mars 77851-11-15 08:53 G 30155871.77 30155871.87 30155871.97 0.1706 0.0881

Earth 77852-05-16 11:32 G 30156054.87 30156054.98 30156055.09 0.2626 0.1366

Moon 77852-05-16 12:00 G 30156054.90 30156055.00 30156055.11 0.2621 0.1369 *

Mars 77852-09-28 05:46 G 30156189.61 30156189.74 30156189.87 0.1806 0.0989

Mars 77853-10-20 18:29 G 30156577.22 30156577.27 30156577.33 0.1730 0.1538

Venus 77854-04-17 08:39 G 30156755.79 30156755.86 30156755.93 0.3650 0.2804

Jupiter 77854-07-14 13:56 G 30156844.01 30156844.08 30156844.15 0.0497 0.0427

Jupiter 77854-10-11 22:48 G 30156933.32 30156933.45 30156933.58 0.0494 0.0227

Saturn 77855-11-19 18:15 G 30157337.26 30157337.26 30157337.27 0.0289 0.0289

Saturn 77856-02-16 14:24 G 30157425.95 30157426.10 30157426.25 0.0289 0.0117

Saturn 77856-05-15 09:51 G 30157514.75 30157514.91 30157515.07 0.0289 0.0050

Saturn 77856-08-12 04:34 G 30157603.59 30157603.69 30157603.81 0.0288 0.0213

Venus 77859-11-01 02:10 G 30158779.47 30158779.59 30158779.70 0.3651 0.0133

Uranus 77860-10-18 01:27 G 30159131.50 30159131.56 30159131.64 0.0144 0.0127

Jupiter 77860-12-12 19:41 G 30159187.16 30159187.32 30159187.48 0.0533 0.0086

Uranus 77861-01-14 06:15 G 30159219.66 30159219.76 30159219.86 0.0144 0.0103

Mars 77861-04-06 18:58 G 30159302.23 30159302.29 30159302.36 0.1701 0.1419

Uranus 77861-04-12 10:48 G 30159307.83 30159307.95 30159308.07 0.0144 0.0079

Uranus 77861-07-09 15:22 G 30159396.01 30159396.14 30159396.28 0.0143 0.0056

Uranus 77861-10-05 20:10 G 30159484.20 30159484.34 30159484.49 0.0143 0.0032

Neptune 77861-11-29 09:36 G 30159538.86 30159538.90 30159538.97 0.0090 0.0085

Uranus 77862-01-02 00:58 G 30159572.39 30159572.54 30159572.69 0.0143 0.0009

Mars 77862-02-18 05:17 G 30159619.56 30159619.72 30159619.87 0.1812 0.0095

Neptune 77862-02-25 12:15 G 30159626.93 30159627.01 30159627.11 0.0090 0.0075

Uranus 77862-03-31 05:32 G 30159660.59 30159660.73 30159660.88 0.0143 0.0017

Neptune 77862-05-24 14:39 G 30159715.01 30159715.11 30159715.24 0.0090 0.0066

Uranus 77862-06-27 10:20 G 30159748.79 30159748.93 30159749.08 0.0143 0.0041

Neptune 77862-08-20 17:32 G 30159803.10 30159803.23 30159803.36 0.0090 0.0056

Uranus 77862-09-23 15:08 G 30159837.00 30159837.13 30159837.27 0.0143 0.0065

Neptune 77862-11-16 19:56 G 30159891.20 30159891.33 30159891.48 0.0090 0.0047

Earth 77862-11-19 11:46 G 30159893.88 30159893.99 30159894.11 0.2706 0.1277

Moon 77862-11-19 12:29 G 30159893.91 30159894.02 30159894.13 0.2700 0.1418 *

Uranus 77862-12-20 19:56 G 30159925.22 30159925.33 30159925.45 0.0143 0.0090

Neptune 77863-02-12 22:34 G 30159979.29 30159979.44 30159979.59 0.0090 0.0037

Mars 77863-03-13 03:51 G 30160007.56 30160007.66 30160007.76 0.1724 0.0918

Uranus 77863-03-19 00:44 G 30160013.45 30160013.53 30160013.63 0.0143 0.0115

Neptune 77863-05-12 00:58 G 30160067.39 30160067.54 30160067.71 0.0090 0.0028

Uranus 77863-06-15 05:46 G 30160101.71 30160101.74 30160101.78 0.0143 0.0139

Neptune 77863-08-08 03:36 G 30160155.49 30160155.65 30160155.81 0.0090 0.0018

Neptune 77863-11-04 06:00 G 30160243.59 30160243.75 30160243.92 0.0090 0.0009

Neptune 77864-01-31 08:39 G 30160331.69 30160331.86 30160332.02 0.0090 0.0001

Neptune 77864-04-28 11:03 G 30160419.80 30160419.96 30160420.12 0.0090 0.0009

Neptune 77864-07-25 13:27 G 30160507.90 30160508.06 30160508.22 0.0090 0.0019

Neptune 77864-10-21 15:51 G 30160596.01 30160596.16 30160596.32 0.0090 0.0028

Neptune 77865-01-17 18:15 G 30160684.11 30160684.26 30160684.41 0.0090 0.0037

Neptune 77865-04-15 20:39 G 30160772.22 30160772.36 30160772.50 0.0090 0.0046

Venus 77865-05-16 19:41 G 30160803.27 30160803.32 30160803.38 0.3652 0.3109

Moon 77865-05-19 07:56 G 30160805.71 30160805.83 30160805.96 0.2620 0.0082

Earth 77865-05-19 08:24 G 30160805.72 30160805.85 30160805.97 0.2626 0.0088 *

Neptune 77865-07-12 23:03 G 30160860.33 30160860.46 30160860.59 0.0090 0.0055

Neptune 77865-10-09 01:12 G 30160948.45 30160948.55 30160948.67 0.0090 0.0064

Neptune 77866-01-05 03:36 G 30161036.57 30161036.65 30161036.75 0.0090 0.0073

Neptune 77866-04-03 06:00 G 30161124.69 30161124.75 30161124.82 0.0090 0.0082

Jupiter 77866-07-31 02:10 G 30161243.45 30161243.59 30161243.73 0.0494 0.0067

Saturn 77871-02-24 17:17 G 30162913.12 30162913.22 30162913.33 0.0270 0.0175

Saturn 77871-05-24 05:32 G 30163001.59 30163001.73 30163001.87 0.0271 0.0060

Mars 77871-07-11 03:36 G 30163049.53 30163049.65 30163049.77 0.1820 0.1223

Saturn 77871-08-20 18:00 G 30163090.11 30163090.25 30163090.40 0.0271 0.0058

Saturn 77871-11-17 06:44 G 30163178.68 30163178.78 30163178.90 0.0271 0.0179

Mars 77872-08-02 13:27 G 30163437.94 30163438.06 30163438.18 0.1718 0.0329

Jupiter 77872-09-30 19:27 G 30163497.15 30163497.31 30163497.46 0.0533 0.0142

Jupiter 77878-05-19 05:46 G 30165553.60 30165553.74 30165553.88 0.0495 0.0095

Moon 77878-05-22 04:34 G 30165556.58 30165556.69 30165556.80 0.2623 0.1217

Earth 77878-05-22 05:17 G 30165556.61 30165556.72 30165556.83 0.2627 0.1368 *

Mars 77881-12-23 23:03 G 30166868.34 30166868.46 30166868.58 0.1712 0.0251

Earth 77882-11-14 18:29 G 30167194.17 30167194.27 30167194.37 0.2707 0.1803

Moon 77882-11-14 19:41 G 30167194.22 30167194.32 30167194.42 0.2709 0.1681 *

Jupiter 77884-07-19 19:12 G 30167807.18 30167807.30 30167807.41 0.0532 0.0365

Earth 77885-05-14 20:10 G 30168106.30 30168106.34 30168106.39 0.2626 0.2417

Moon 77885-05-14 21:08 G 30168106.32 30168106.38 30168106.43 0.2622 0.2330 *

Saturn 77885-07-05 12:29 G 30168157.90 30168158.02 30168158.16 0.0289 0.0179

Saturn 77885-10-02 08:10 G 30168246.68 30168246.84 30168247.01 0.0289 0.0013

Saturn 77885-12-30 03:22 G 30168335.50 30168335.64 30168335.78 0.0288 0.0155

Pluto 77889-06-18 15:36 G 30169602.11 30169602.15 30169602.19 0.0081 0.0078

Pluto 77889-09-14 16:48 G 30169690.11 30169690.20 30169690.32 0.0081 0.0057

Pluto 77889-12-11 18:29 G 30169778.15 30169778.27 30169778.42 0.0081 0.0036

Jupiter 77890-03-07 08:24 G 30169863.73 30169863.85 30169863.97 0.0496 0.0270

Pluto 77890-03-09 20:24 G 30169866.20 30169866.35 30169866.50 0.0081 0.0015

Jupiter 77890-06-04 17:32 G 30169953.14 30169953.23 30169953.32 0.0493 0.0388

Pluto 77890-06-05 21:51 G 30169954.26 30169954.41 30169954.57 0.0081 0.0007

Pluto 77890-09-01 23:17 G 30170042.34 30170042.47 30170042.63 0.0080 0.0028

Pluto 77890-11-29 01:12 G 30170130.42 30170130.55 30170130.67 0.0080 0.0048

Pluto 77891-02-25 02:39 G 30170218.54 30170218.61 30170218.69 0.0080 0.0068

Mars 77891-05-16 08:53 G 30170298.77 30170298.87 30170298.98 0.1706 0.0811

Mars 77892-03-29 06:29 G 30170616.65 30170616.77 30170616.89 0.1805 0.1101

Mars 77893-04-20 18:44 G 30171004.23 30171004.28 30171004.32 0.1730 0.1609

Earth 77895-11-17 18:15 G 30171945.12 30171945.26 30171945.39 0.2707 0.0113

Moon 77895-11-17 19:12 G 30171945.16 30171945.30 30171945.43 0.2703 0.0114 *

Jupiter 77896-08-05 19:12 G 30172207.18 30172207.30 30172207.43 0.0534 0.0340

Earth 77898-05-17 16:48 G 30172857.08 30172857.20 30172857.31 0.2626 0.1113

Moon 77898-05-17 17:03 G 30172857.10 30172857.21 30172857.33 0.2620 0.1024 *

Saturn 77900-07-14 20:39 G 30173645.26 30173645.36 30173645.45 0.0270 0.0199

Mars 77900-10-06 18:58 G 30173729.22 30173729.29 30173729.36 0.1700 0.1353

Saturn 77900-10-11 08:39 G 30173733.73 30173733.86 30173734.00 0.0271 0.0085

Saturn 77901-01-07 21:08 G 30173822.24 30173822.38 30173822.53 0.0271 0.0035

Saturn 77901-04-06 09:51 G 30173910.80 30173910.91 30173911.04 0.0271 0.0154

Mars 77901-08-20 05:32 G 30174046.57 30174046.73 30174046.89 0.1813 0.0025

Jupiter 77901-12-25 12:00 G 30174173.93 30174174.00 30174174.06 0.0497 0.0432

Jupiter 77902-03-24 20:39 G 30174263.23 30174263.36 30174263.49 0.0494 0.0222

Mars 77902-09-12 03:51 G 30174434.57 30174434.66 30174434.76 0.1724 0.0993

Uranus 77903-05-04 10:34 G 30174668.92 30174668.94 30174668.99 0.0135 0.0131

Uranus 77903-07-31 16:05 G 30174757.08 30174757.17 30174757.27 0.0135 0.0108

Venus 77903-10-27 08:10 G 30174844.71 30174844.84 30174844.96 0.3720 0.1187

Uranus 77903-10-27 21:08 G 30174845.27 30174845.38 30174845.52 0.0135 0.0086

Uranus 77904-01-24 02:39 G 30174933.47 30174933.61 30174933.76 0.0135 0.0063

Uranus 77904-04-21 07:56 G 30175021.67 30175021.83 30175021.99 0.0135 0.0040

Uranus 77904-07-18 12:58 G 30175109.88 30175110.04 30175110.21 0.0135 0.0019

Uranus 77904-10-14 18:15 G 30175198.10 30175198.26 30175198.43 0.0135 0.0004

Uranus 77905-01-10 23:17 G 30175286.31 30175286.47 30175286.63 0.0135 0.0026

Uranus 77905-04-09 04:20 G 30175374.53 30175374.68 30175374.84 0.0135 0.0048

Uranus 77905-07-06 09:22 G 30175462.75 30175462.89 30175463.03 0.0135 0.0070

Uranus 77905-10-02 14:24 G 30175550.98 30175551.10 30175551.22 0.0135 0.0091

Uranus 77905-12-29 19:12 G 30175639.22 30175639.30 30175639.40 0.0135 0.0113

Uranus 77906-03-28 00:00 G 30175727.50 30175727.50 30175727.53 0.0135 0.0134

Jupiter 77908-05-25 17:46 G 30176517.08 30176517.24 30176517.39 0.0533 0.0088

Earth 77908-11-20 17:17 G 30176696.12 30176696.22 30176696.33 0.2706 0.1589

Moon 77908-11-20 18:00 G 30176696.14 30176696.25 30176696.35 0.2700 0.1556 *

Venus 77910-11-23 06:29 G 30177428.67 30177428.77 30177428.87 0.3650 0.1728

Mars 77911-01-10 04:34 G 30177476.56 30177476.69 30177476.81 0.1820 0.1088

Moon 77911-05-21 13:12 G 30177607.92 30177608.05 30177608.18 0.2620 0.0139

Earth 77911-05-21 13:27 G 30177607.94 30177608.06 30177608.19 0.2626 0.0254 *

Mars 77912-02-02 13:27 G 30177864.94 30177865.06 30177865.18 0.1718 0.0393

Jupiter 77914-01-11 00:15 G 30178573.37 30178573.51 30178573.65 0.0495 0.0063

Saturn 77914-11-23 14:39 G 30178890.00 30178890.11 30178890.23 0.0289 0.0208

Saturn 77915-02-20 10:34 G 30178978.77 30178978.94 30178979.10 0.0289 0.0038

Saturn 77915-05-20 05:46 G 30179067.59 30179067.74 30179067.89 0.0289 0.0128

Saturn 77915-08-17 00:29 G 30179156.51 30179156.52 30179156.52 0.0288 0.0287

Venus 77916-06-08 00:00 G 30179452.40 30179452.50 30179452.61 0.3651 0.1204

Jupiter 77920-03-13 16:48 G 30180827.05 30180827.20 30180827.35 0.0532 0.0151

Mars 77921-06-24 23:03 G 30181295.34 30181295.46 30181295.58 0.1712 0.0187

Moon 77924-05-23 09:51 G 30182358.81 30182358.91 30182359.01 0.2624 0.1621

Earth 77924-05-23 10:34 G 30182358.85 30182358.94 30182359.04 0.2627 0.1644 *

Jupiter 77925-10-30 03:51 G 30182883.52 30182883.66 30182883.80 0.0495 0.0098

Earth 77928-11-16 00:00 G 30183996.39 30183996.50 30183996.62 0.2707 0.1482

Moon 77928-11-16 01:12 G 30183996.44 30183996.55 30183996.67 0.2709 0.1372 *

Saturn 77929-12-01 22:34 G 30184377.38 30184377.44 30184377.52 0.0270 0.0231

Saturn 77930-02-28 10:48 G 30184465.82 30184465.95 30184466.08 0.0271 0.0117

Saturn 77930-05-27 23:17 G 30184554.32 30184554.47 30184554.61 0.0271 0.0003

Saturn 77930-08-24 11:46 G 30184642.86 30184642.99 30184643.12 0.0271 0.0119

Mars 77930-11-15 08:53 G 30184725.77 30184725.87 30184725.98 0.1706 0.0744

Saturn 77930-11-21 00:44 G 30184731.47 30184731.53 30184731.60 0.0272 0.0241

Earth 77931-05-17 01:27 G 30184908.49 30184908.56 30184908.63 0.2626 0.2162

Moon 77931-05-17 02:10 G 30184908.52 30184908.59 30184908.67 0.2623 0.2076 *

Mars 77931-09-29 06:58 G 30185043.68 30185043.79 30185043.91 0.1805 0.1208

Jupiter 77931-12-31 16:20 G 30185137.06 30185137.18 30185137.29 0.0532 0.0382

Mars 77932-10-20 18:44 G 30185431.25 30185431.28 30185431.30 0.1731 0.1676

Jupiter 77937-08-18 07:12 G 30187193.68 30187193.80 30187193.92 0.0496 0.0257

Jupiter 77937-11-15 16:20 G 30187283.10 30187283.18 30187283.26 0.0493 0.0400

Mars 77940-04-06 18:58 G 30188156.22 30188156.29 30188156.37 0.1700 0.1283

Mars 77941-02-18 06:29 G 30188473.61 30188473.77 30188473.93 0.1813 0.0148

Earth 77941-11-18 23:46 G 30188747.36 30188747.49 30188747.62 0.2707 0.0242

Moon 77941-11-19 00:44 G 30188747.40 30188747.53 30188747.66 0.2702 0.0327 *

Mars 77942-03-13 04:05 G 30188861.57 30188861.67 30188861.76 0.1724 0.1064

Jupiter 77944-01-17 17:03 G 30189537.09 30189537.21 30189537.34 0.0534 0.0339

Neptune 77944-02-18 19:12 G 30189569.26 30189569.30 30189569.34 0.0088 0.0084

Saturn 77944-04-11 13:12 G 30189621.99 30189622.05 30189622.11 0.0289 0.0268

Neptune 77944-05-16 20:39 G 30189657.30 30189657.36 30189657.44 0.0088 0.0077

Moon 77944-05-18 22:05 G 30189659.30 30189659.42 30189659.54 0.2620 0.0846

Earth 77944-05-18 22:05 G 30189659.30 30189659.42 30189659.53 0.2626 0.0847 *

Saturn 77944-07-09 09:08 G 30189710.72 30189710.88 30189711.03 0.0289 0.0097

Uranus 77944-08-12 04:05 G 30189744.67 30189744.67 30189744.70 0.0144 0.0143

Neptune 77944-08-12 22:34 G 30189745.36 30189745.44 30189745.54 0.0088 0.0069

Saturn 77944-10-06 04:20 G 30189799.53 30189799.68 30189799.85 0.0288 0.0071

Uranus 77944-11-08 08:53 G 30189832.79 30189832.87 30189832.95 0.0144 0.0119

Neptune 77944-11-09 00:29 G 30189833.41 30189833.52 30189833.63 0.0088 0.0061

Saturn 77945-01-02 23:17 G 30189888.38 30189888.47 30189888.57 0.0288 0.0232

Uranus 77945-02-04 13:27 G 30189920.96 30189921.06 30189921.17 0.0144 0.0096

Neptune 77945-02-05 01:56 G 30189921.48 30189921.58 30189921.71 0.0088 0.0054

Uranus 77945-05-03 18:00 G 30190009.13 30190009.25 30190009.38 0.0144 0.0072

Neptune 77945-05-04 03:51 G 30190009.54 30190009.66 30190009.80 0.0088 0.0046

Uranus 77945-07-30 22:48 G 30190097.31 30190097.45 30190097.59 0.0143 0.0048

Neptune 77945-07-31 05:46 G 30190097.61 30190097.74 30190097.88 0.0088 0.0038

Uranus 77945-10-27 03:36 G 30190185.50 30190185.65 30190185.79 0.0143 0.0025

Neptune 77945-10-27 07:41 G 30190185.68 30190185.82 30190185.96 0.0088 0.0030 *

Uranus 77946-01-23 08:10 G 30190273.69 30190273.84 30190273.99 0.0143 0.0002

Neptune 77946-01-23 09:22 G 30190273.75 30190273.89 30190274.04 0.0088 0.0022 *

Neptune 77946-04-21 11:17 G 30190361.82 30190361.97 30190362.12 0.0088 0.0014

Uranus 77946-04-21 12:58 G 30190361.89 30190362.04 30190362.19 0.0143 0.0024 *

Neptune 77946-07-18 13:12 G 30190449.90 30190450.05 30190450.20 0.0088 0.0006

Uranus 77946-07-18 17:46 G 30190450.10 30190450.24 30190450.38 0.0143 0.0048 *

Neptune 77946-10-14 15:08 G 30190537.97 30190538.13 30190538.28 0.0088 0.0003

Uranus 77946-10-14 22:34 G 30190538.31 30190538.44 30190538.57 0.0143 0.0073

Neptune 77947-01-10 16:48 G 30190626.05 30190626.20 30190626.35 0.0088 0.0010

Uranus 77947-01-11 03:22 G 30190626.53 30190626.64 30190626.75 0.0143 0.0097

Neptune 77947-04-08 18:44 G 30190714.13 30190714.28 30190714.43 0.0088 0.0017

Uranus 77947-04-09 08:10 G 30190714.77 30190714.84 30190714.93 0.0143 0.0122

Neptune 77947-07-05 20:24 G 30190802.21 30190802.35 30190802.50 0.0088 0.0026

Neptune 77947-10-01 22:20 G 30190890.30 30190890.43 30190890.58 0.0088 0.0034

Neptune 77947-12-29 00:15 G 30190978.38 30190978.51 30190978.65 0.0088 0.0042

Neptune 77948-03-26 02:10 G 30191066.47 30191066.59 30191066.72 0.0088 0.0050

Neptune 77948-06-22 04:05 G 30191154.56 30191154.67 30191154.79 0.0088 0.0058

Neptune 77948-09-18 06:00 G 30191242.66 30191242.75 30191242.85 0.0088 0.0066

Neptune 77948-12-15 07:41 G 30191330.76 30191330.82 30191330.91 0.0088 0.0075

Neptune 77949-03-13 09:36 G 30191418.87 30191418.90 30191418.97 0.0088 0.0083

Jupiter 77949-06-06 10:05 G 30191503.86 30191503.92 30191503.99 0.0496 0.0430

Jupiter 77949-09-03 18:58 G 30191593.16 30191593.29 30191593.41 0.0494 0.0222

Mars 77950-07-11 04:48 G 30191903.57 30191903.70 30191903.83 0.1820 0.0986

Mars 77951-08-03 13:27 G 30192291.94 30192292.06 30192292.17 0.1718 0.0464

Venus 77954-11-17 07:27 G 30193493.71 30193493.81 30193493.92 0.3721 0.2129

Earth 77954-11-21 22:48 G 30193498.36 30193498.45 30193498.55 0.2706 0.1896

Moon 77954-11-21 23:17 G 30193498.38 30193498.47 30193498.55 0.2700 0.1987 *

Jupiter 77955-11-05 16:34 G 30193847.03 30193847.19 30193847.35 0.0533 0.0106

Moon 77957-05-21 18:29 G 30194410.14 30194410.27 30194410.39 0.2620 0.0530

Earth 77957-05-21 18:44 G 30194410.16 30194410.28 30194410.41 0.2626 0.0520 *

Saturn 77959-04-21 01:41 G 30195109.53 30195109.57 30195109.61 0.0270 0.0256

Saturn 77959-07-18 13:41 G 30195197.96 30195198.07 30195198.20 0.0271 0.0143

Saturn 77959-10-15 02:10 G 30195286.45 30195286.59 30195286.73 0.0271 0.0026

Saturn 77960-01-11 14:39 G 30195374.98 30195375.11 30195375.25 0.0271 0.0093

Saturn 77960-04-09 03:22 G 30195463.56 30195463.64 30195463.74 0.0272 0.0215

Venus 77960-06-02 07:41 G 30195517.75 30195517.82 30195517.90 0.3720 0.2967

Mars 77960-12-23 23:03 G 30195722.34 30195722.46 30195722.58 0.1712 0.0118

Jupiter 77961-06-22 22:05 G 30195903.28 30195903.42 30195903.56 0.0495 0.0056

Venus 77961-12-14 11:03 G 30196077.93 30196077.96 30196077.98 0.3650 0.3509

Venus 77967-06-30 04:20 G 30198101.57 30198101.68 30198101.79 0.3651 0.0650

Jupiter 77967-08-24 14:39 G 30198156.96 30198157.11 30198157.27 0.0532 0.0151

Mars 77970-05-16 08:53 G 30199152.76 30199152.87 30199152.98 0.1706 0.0678

Moon 77970-05-24 14:53 G 30199161.03 30199161.12 30199161.22 0.2625 0.1729

Earth 77970-05-24 15:51 G 30199161.08 30199161.16 30199161.25 0.2627 0.1916 *

Mars 77971-03-30 07:41 G 30199470.72 30199470.82 30199470.93 0.1805 0.1326

Venus 77973-01-12 22:05 G 30200125.33 30200125.42 30200125.50 0.3652 0.2323

Jupiter 77973-04-11 01:41 G 30200213.43 30200213.57 30200213.71 0.0495 0.0102

Saturn 77973-11-26 11:32 G 30200442.83 30200442.98 30200443.14 0.0289 0.0122

Saturn 77974-02-23 07:12 G 30200531.63 30200531.80 30200531.96 0.0289 0.0046

Saturn 77974-05-23 01:56 G 30200620.48 30200620.58 30200620.70 0.0288 0.0209

Earth 77974-11-17 05:46 G 30200798.62 30200798.74 30200798.86 0.2707 0.1152

Moon 77974-11-17 06:58 G 30200798.66 30200798.79 30200798.91 0.2707 0.0991 *

Earth 77977-05-17 06:29 G 30201710.69 30201710.77 30201710.86 0.2626 0.1913

Moon 77977-05-17 07:27 G 30201710.72 30201710.81 30201710.90 0.2622 0.1805 *

Jupiter 77979-06-12 13:27 G 30202466.96 30202467.06 30202467.18 0.0532 0.0393

Mars 77979-10-06 18:58 G 30202583.21 30202583.29 30202583.37 0.1700 0.1218

Mars 77980-08-19 06:58 G 30202900.64 30202900.79 30202900.95 0.1812 0.0265

Mars 77981-09-11 03:51 G 30203288.57 30203288.66 30203288.75 0.1724 0.1123

Jupiter 77985-01-28 05:17 G 30204523.60 30204523.72 30204523.84 0.0496 0.0260

Jupiter 77985-04-27 14:10 G 30204613.01 30204613.09 30204613.18 0.0493 0.0398

Uranus 77987-05-24 17:17 G 30205370.17 30205370.22 30205370.28 0.0135 0.0126

Uranus 77987-08-20 22:48 G 30205458.34 30205458.45 30205458.55 0.0135 0.0103

Uranus 77987-11-17 03:51 G 30205546.53 30205546.66 30205546.80 0.0135 0.0081

Earth 77987-11-20 05:17 G 30205549.59 30205549.72 30205549.85 0.2706 0.0556

Moon 77987-11-20 06:15 G 30205549.63 30205549.76 30205549.88 0.2702 0.0657 *

Uranus 77988-02-13 09:08 G 30205634.74 30205634.88 30205635.04 0.0135 0.0058

Uranus 77988-05-11 14:24 G 30205722.94 30205723.10 30205723.26 0.0135 0.0036

Uranus 77988-08-07 19:41 G 30205811.16 30205811.32 30205811.49 0.0135 0.0013

Uranus 77988-11-04 00:44 G 30205899.37 30205899.53 30205899.70 0.0135 0.0010

Saturn 77988-12-04 16:20 G 30205930.07 30205930.18 30205930.29 0.0270 0.0172

Uranus 77989-01-31 06:00 G 30205987.59 30205987.75 30205987.91 0.0135 0.0031

Saturn 77989-03-03 04:34 G 30206018.55 30206018.69 30206018.83 0.0271 0.0057

Uranus 77989-04-29 10:48 G 30206075.81 30206075.95 30206076.11 0.0135 0.0053

Saturn 77989-05-30 17:03 G 30206107.07 30206107.21 30206107.35 0.0271 0.0061

Uranus 77989-07-26 15:51 G 30206164.03 30206164.16 30206164.30 0.0135 0.0075

Saturn 77989-08-27 05:46 G 30206195.63 30206195.74 30206195.85 0.0272 0.0182

Uranus 77989-10-22 20:53 G 30206252.26 30206252.37 30206252.49 0.0135 0.0096

Mars 77990-01-09 05:32 G 30206330.60 30206330.73 30206330.87 0.1820 0.0864

Uranus 77990-01-19 01:41 G 30206340.51 30206340.57 30206340.66 0.0135 0.0118

Moon 77990-05-20 03:22 G 30206461.51 30206461.64 30206461.76 0.2619 0.0578

Earth 77990-05-20 03:08 G 30206461.51 30206461.63 30206461.76 0.2626 0.0589 *

Mars 77991-02-01 13:27 G 30206718.94 30206719.06 30206719.17 0.1718 0.0531

Jupiter 77991-06-29 14:10 G 30206866.96 30206867.09 30206867.21 0.0534 0.0320

Jupiter 77996-11-16 08:53 G 30208833.80 30208833.87 30208833.95 0.0496 0.0419

Jupiter 77997-02-13 17:32 G 30208923.11 30208923.23 30208923.36 0.0494 0.0234

Mars 78000-06-23 23:03 G 30210149.34 30210149.46 30210149.58 0.1712 0.0055

Moon 78000-11-22 04:34 G 30210300.61 30210300.69 30210300.76 0.2699 0.2164

Earth 78000-11-22 04:20 G 30210300.61 30210300.68 30210300.76 0.2706 0.2202 *

79TH MILLENNIUM CE

This is a list of transits of Mercury in the 79th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	78003-04-15 10:05	G	30211174.80	30211174.92	30211175.06	0.0289	0.0181	
Jupiter	78003-04-17 14:10	G	30211176.94	30211177.09	30211177.25	0.0533	0.0101	
Moon	78003-05-22 23:32	G	30211212.36	30211212.48	30211212.60	0.2622	0.0691	
Earth	78003-05-23 00:15	G	30211212.39	30211212.51	30211212.63	0.2626	0.0793	*
Saturn	78003-07-13 06:00	G	30211263.58	30211263.75	30211263.91	0.0288	0.0014	
Saturn	78003-10-10 00:58	G	30211352.40	30211352.54	30211352.68	0.0288	0.0152	
Earth	78007-11-15 11:32	G	30212849.94	30212849.98	30212850.02	0.2707	0.2586	
Moon	78007-11-15 12:29	G	30212849.96	30212850.02	30212850.08	0.2712	0.2391	*
Jupiter	78008-12-02 20:24	G	30213233.21	30213233.35	30213233.49	0.0495	0.0058	
Mars	78009-11-14 08:53	G	30213579.76	30213579.87	30213579.98	0.1706	0.0609	
Mars	78010-09-28 08:24	G	30213897.75	30213897.85	30213897.94	0.1805	0.1429	
Venus	78011-06-24 07:12	G	30214166.67	30214166.80	30214166.93	0.3721	0.0306	
Jupiter	78015-02-03 13:27	G	30215486.91	30215487.06	30215487.22	0.0532	0.0135	
Moon	78016-05-24 20:10	G	30215963.27	30215963.34	30215963.41	0.2625	0.2161	
Earth	78016-05-24 21:22	G	30215963.32	30215963.39	30215963.45	0.2627	0.2197	*
Saturn	78018-04-23 18:58	G	30216662.19	30216662.29	30216662.38	0.0271	0.0200	
Saturn	78018-07-21 06:58	G	30216750.66	30216750.79	30216750.93	0.0271	0.0086	
Venus	78018-07-21 08:53	G	30216750.79	30216750.87	30216750.95	0.3650	0.2448	*
Saturn	78018-10-17 19:41	G	30216839.17	30216839.32	30216839.46	0.0271	0.0033	
Saturn	78019-01-14 08:10	G	30216927.73	30216927.84	30216927.97	0.0272	0.0153	
Mars	78019-04-06 18:58	G	30217010.20	30217010.29	30217010.38	0.1700	0.1152	
Mars	78020-02-18 07:27	G	30217327.66	30217327.81	30217327.97	0.1813	0.0367	

Jupiter 78020-09-20 23:46 G 30217543.35 30217543.49 30217543.63 0.0495 0.0108

Earth 78020-11-17 11:32 G 30217600.85 30217600.98 30217601.10 0.2707 0.0826

Moon 78020-11-17 12:29 G 30217600.89 30217601.02 30217601.15 0.2705 0.0773 *

Mars 78021-03-12 04:05 G 30217715.58 30217715.67 30217715.75 0.1724 0.1198

Earth 78023-05-18 11:46 G 30218512.90 30218512.99 30218513.09 0.2626 0.1654

Moon 78023-05-18 12:29 G 30218512.92 30218513.02 30218513.11 0.2621 0.1640 *

Venus 78024-02-04 02:10 G 30218774.48 30218774.59 30218774.71 0.3651 0.0456

Neptune 78026-05-31 06:15 G 30219621.74 30219621.76 30219621.81 0.0090 0.0088

Neptune 78026-08-27 09:08 G 30219709.80 30219709.88 30219709.96 0.0090 0.0078

Jupiter 78026-11-22 11:32 G 30219796.87 30219796.98 30219797.09 0.0531 0.0393

Neptune 78026-11-23 11:32 G 30219797.88 30219797.98 30219798.10 0.0090 0.0069

Neptune 78027-02-19 14:10 G 30219885.97 30219886.09 30219886.22 0.0090 0.0059

Neptune 78027-05-18 16:34 G 30219974.07 30219974.19 30219974.34 0.0090 0.0050

Neptune 78027-08-14 19:27 G 30220062.16 30220062.31 30220062.46 0.0090 0.0040

Neptune 78027-11-10 21:51 G 30220150.26 30220150.41 30220150.57 0.0090 0.0031

Neptune 78028-02-07 00:15 G 30220238.36 30220238.51 30220238.68 0.0090 0.0022

Neptune 78028-05-05 02:53 G 30220326.46 30220326.62 30220326.79 0.0090 0.0012

Neptune 78028-08-01 05:32 G 30220414.56 30220414.73 30220414.89 0.0090 0.0003

Mars 78028-08-27 05:03 G 30220440.70 30220440.71 30220440.72 0.1695 0.1681

Uranus 78028-09-01 11:32 G 30220445.94 30220445.98 30220446.03 0.0144 0.0135

Neptune 78028-10-28 07:56 G 30220502.67 30220502.83 30220502.99 0.0090 0.0007

Uranus 78028-11-28 15:51 G 30220534.09 30220534.16 30220534.26 0.0144 0.0113

Neptune 78029-01-24 10:20 G 30220590.77 30220590.93 30220591.09 0.0090 0.0016

Uranus 78029-02-24 20:39 G 30220622.25 30220622.36 30220622.48 0.0144 0.0089

Neptune 78029-04-22 12:44 G 30220678.88 30220679.03 30220679.19 0.0090 0.0025

Uranus 78029-05-24 01:12 G 30220710.43 30220710.55 30220710.69 0.0144 0.0066

Mars 78029-07-10 06:29 G 30220757.62 30220757.77 30220757.91 0.1820 0.0736

Neptune 78029-07-19 15:08 G 30220766.98 30220767.13 30220767.29 0.0090 0.0034

Venus 78029-08-19 19:56 G 30220798.30 30220798.33 30220798.37 0.3652 0.3441

Uranus 78029-08-20 06:00 G 30220798.61 30220798.75 30220798.89 0.0143 0.0041

Neptune 78029-10-15 17:32 G 30220855.09 30220855.23 30220855.38 0.0090 0.0043

Uranus 78029-11-16 10:48 G 30220886.80 30220886.95 30220887.09 0.0143 0.0018

Neptune 78030-01-11 19:41 G 30220943.21 30220943.32 30220943.47 0.0090 0.0053

Uranus 78030-02-12 15:22 G 30220974.99 30220975.14 30220975.29 0.0143 0.0007

Neptune 78030-04-09 22:05 G 30221031.32 30221031.42 30221031.56 0.0090 0.0062

Uranus 78030-05-11 20:10 G 30221063.20 30221063.34 30221063.49 0.0143 0.0031

Neptune 78030-07-07 00:29 G 30221119.44 30221119.52 30221119.64 0.0090 0.0071

Mars 78030-08-02 13:27 G 30221145.95 30221146.06 30221146.17 0.1718 0.0597

Uranus 78030-08-08 00:58 G 30221151.40 30221151.54 30221151.68 0.0143 0.0055

Neptune 78030-10-03 02:53 G 30221207.56 30221207.62 30221207.71 0.0090 0.0080

Uranus 78030-11-04 05:46 G 30221239.62 30221239.74 30221239.87 0.0143 0.0080

Neptune 78030-12-30 05:32 G 30221295.71 30221295.73 30221295.76 0.0090 0.0088

Uranus 78031-01-31 10:48 G 30221327.84 30221327.95 30221328.05 0.0143 0.0105

Uranus 78031-04-29 15:36 G 30221416.09 30221416.15 30221416.21 0.0143 0.0129

Jupiter 78032-07-10 03:22 G 30221853.52 30221853.64 30221853.76 0.0496 0.0265

Saturn 78032-09-01 12:44 G 30221906.92 30221907.03 30221907.15 0.0289 0.0207

Jupiter 78032-10-07 12:15 G 30221942.93 30221943.01 30221943.10 0.0494 0.0393

Saturn 78032-11-29 08:39 G 30221995.69 30221995.86 30221996.02 0.0289 0.0037

Saturn 78033-02-26 03:51 G 30222084.51 30222084.66 30222084.80 0.0289 0.0129

Earth 78033-11-20 10:48 G 30222351.83 30222351.95 30222352.08 0.2706 0.0876

Moon 78033-11-20 11:46 G 30222351.86 30222351.99 30222352.11 0.2702 0.0982 *

Moon 78036-05-20 08:24 G 30223263.73 30223263.85 30223263.98 0.2619 0.0311

Earth 78036-05-20 08:24 G 30223263.73 30223263.85 30223263.98 0.2626 0.0325 *

Jupiter 78038-12-09 11:32 G 30224196.85 30224196.98 30224197.11 0.0534 0.0310

Mars 78039-12-23 23:03 G 30224576.34 30224576.46 30224576.58 0.1712 0.0037

Jupiter 78044-04-28 06:58 G 30226163.72 30226163.79 30226163.86 0.0497 0.0422

Jupiter 78044-07-26 15:36 G 30226253.03 30226253.15 30226253.28 0.0494 0.0231

Pluto 78045-12-04 22:34 G 30226749.39 30226749.44 30226749.53 0.0063 0.0057

Pluto 78046-03-02 23:46 G 30226837.39 30226837.49 30226837.60 0.0063 0.0046

Pluto 78046-05-30 00:44 G 30226925.40 30226925.53 30226925.66 0.0063 0.0036

Pluto 78046-08-26 01:27 G 30227013.42 30227013.56 30227013.72 0.0063 0.0025

Pluto 78046-11-22 02:24 G 30227101.44 30227101.60 30227101.76 0.0063 0.0015

Moon 78046-11-23 09:51 G 30227102.86 30227102.91 30227102.95 0.2699 0.2494

Earth 78046-11-23 09:51 G 30227102.87 30227102.91 30227102.96 0.2706 0.2508 *

Pluto 78047-02-18 03:22 G 30227189.48 30227189.64 30227189.80 0.0064 0.0004

Pluto 78047-05-17 04:05 G 30227277.51 30227277.67 30227277.84 0.0064 0.0007

Pluto 78047-08-13 04:48 G 30227365.56 30227365.70 30227365.87 0.0064 0.0018

Saturn 78047-09-10 21:36 G 30227394.33 30227394.40 30227394.47 0.0270 0.0227

Pluto 78047-11-09 05:32 G 30227453.60 30227453.73 30227453.89 0.0064 0.0029

Saturn 78047-12-08 09:36 G 30227482.78 30227482.90 30227483.03 0.0271 0.0114

Pluto 78048-02-05 06:29 G 30227541.66 30227541.77 30227541.91 0.0064 0.0040

Saturn 78048-03-05 22:05 G 30227571.28 30227571.42 30227571.56 0.0271 0.0003

Pluto 78048-05-03 07:27 G 30227629.72 30227629.81 30227629.92 0.0064 0.0050

Saturn 78048-06-02 10:34 G 30227659.82 30227659.94 30227660.08 0.0271 0.0122

Pluto 78048-07-30 08:10 G 30227717.81 30227717.84 30227717.90 0.0064 0.0062

Saturn 78048-08-29 23:32 G 30227748.42 30227748.48 30227748.54 0.0272 0.0244

Mars 78049-05-15 08:53 G 30228006.76 30228006.87 30228006.99 0.1706 0.0543

Moon 78049-05-23 04:34 G 30228014.58 30228014.69 30228014.81 0.2622 0.0982

Earth 78049-05-23 05:17 G 30228014.61 30228014.72 30228014.84 0.2626 0.1061 *

Mars 78050-03-29 08:53 G 30228324.79 30228324.87 30228324.95 0.1805 0.1538

Jupiter 78050-09-27 11:03 G 30228506.81 30228506.96 30228507.12 0.0533 0.0081

Earth 78053-11-15 17:17 G 30229652.15 30229652.22 30229652.29 0.2707 0.2247

Moon 78053-11-15 18:15 G 30229652.19 30229652.26 30229652.33 0.2711 0.2233 *

Jupiter 78056-05-14 19:12 G 30230563.15 30230563.30 30230563.44 0.0495 0.0070

Mars 78058-10-05 18:58 G 30231437.20 30231437.29 30231437.38 0.1700 0.1085

Mars 78059-08-19 08:24 G 30231754.69 30231754.85 30231755.00 0.1813 0.0485

Mars 78060-09-10 04:05 G 30232142.59 30232142.67 30232142.75 0.1724 0.1267

Saturn 78062-01-19 11:17 G 30232638.91 30232638.97 30232639.04 0.0289 0.0265

Saturn 78062-04-18 07:12 G 30232727.65 30232727.80 30232727.96 0.0289 0.0094

Moon 78062-05-26 01:41 G 30232765.51 30232765.57 30232765.62 0.2626 0.2309

Earth 78062-05-26 02:39 G 30232765.57 30232765.61 30232765.65 0.2627 0.2478 *

Venus 78062-07-15 06:29 G 30232815.76 30232815.77 30232815.77 0.3722 0.3712

Saturn 78062-07-16 02:39 G 30232816.45 30232816.61 30232816.77 0.0288 0.0074

Jupiter 78062-07-16 11:03 G 30232816.81 30232816.96 30232817.11 0.0533 0.0142

Saturn 78062-10-12 21:36 G 30232905.31 30232905.40 30232905.50 0.0288 0.0235

Earth 78066-11-18 17:03 G 30234403.08 30234403.21 30234403.34 0.2707 0.0497

Moon 78066-11-18 18:00 G 30234403.12 30234403.25 30234403.39 0.2704 0.0298 *

Venus 78068-01-29 06:58 G 30234839.67 30234839.79 30234839.91 0.3721 0.1507

Mars 78068-02-26 05:03 G 30234867.68 30234867.71 30234867.75 0.1695 0.1612

Jupiter 78068-03-02 21:51 G 30234873.28 30234873.41 30234873.55 0.0495 0.0106

Mars 78069-01-08 06:58 G 30235184.64 30235184.79 30235184.94 0.1820 0.0630

Earth 78069-05-18 17:03 G 30235315.10 30235315.21 30235315.31 0.2626 0.1401

Moon 78069-05-18 17:32 G 30235315.12 30235315.23 30235315.33 0.2620 0.1284 *

Mars 78070-01-31 13:27 G 30235572.95 30235573.06 30235573.17 0.1718 0.0665

Uranus 78071-06-14 00:00 G 30236071.43 30236071.50 30236071.58 0.0135 0.0120

Uranus 78071-09-10 05:17 G 30236159.61 30236159.72 30236159.84 0.0135 0.0097

Uranus 78071-12-07 10:34 G 30236247.81 30236247.94 30236248.09 0.0135 0.0075

Uranus 78072-03-04 16:05 G 30236336.02 30236336.17 30236336.32 0.0135 0.0052

Uranus 78072-05-31 21:08 G 30236424.22 30236424.38 30236424.55 0.0135 0.0030

Uranus 78072-08-28 02:24 G 30236512.44 30236512.60 30236512.77 0.0135 0.0008

Uranus 78072-11-24 07:41 G 30236600.65 30236600.82 30236600.98 0.0135 0.0015

Uranus 78073-02-20 12:44 G 30236688.87 30236689.03 30236689.19 0.0135 0.0037

Uranus 78073-05-19 17:46 G 30236777.09 30236777.24 30236777.39 0.0135 0.0059

Uranus 78073-08-15 22:48 G 30236865.32 30236865.45 30236865.58 0.0135 0.0080

Uranus 78073-11-12 03:36 G 30236953.55 30236953.65 30236953.76 0.0135 0.0102

Uranus 78074-02-08 08:39 G 30237041.80 30237041.86 30237041.93 0.0135 0.0123

Jupiter 78074-05-04 10:20 G 30237126.82 30237126.93 30237127.04 0.0532 0.0376

Venus 78075-02-25 06:44 G 30237423.67 30237423.78 30237423.88 0.3650 0.1397

Saturn 78077-01-27 23:46 G 30238126.46 30238126.49 30238126.53 0.0271 0.0259

Saturn 78077-04-26 12:00 G 30238214.88 30238215.00 30238215.12 0.0271 0.0145

Saturn 78077-07-24 00:15 G 30238303.37 30238303.51 30238303.66 0.0271 0.0030

Saturn 78077-10-20 12:58 G 30238391.90 30238392.04 30238392.17 0.0271 0.0090

Saturn 78078-01-17 01:41 G 30238480.48 30238480.57 30238480.66 0.0272 0.0211

Mars 78078-05-31 05:03 G 30238614.68 30238614.71 30238614.74 0.1828 0.1794

Mars 78079-06-23 23:03 G 30239003.34 30239003.46 30239003.58 0.1712 0.0093

Earth 78079-11-21 16:20 G 30239154.07 30239154.18 30239154.30 0.2706 0.1194

Moon 78079-11-21 17:03 G 30239154.09 30239154.21 30239154.33 0.2701 0.1214 *

Jupiter 78079-12-21 01:27 G 30239183.44 30239183.56 30239183.67 0.0496 0.0268

Jupiter 78080-03-19 10:20 G 30239272.84 30239272.93 30239273.01 0.0493 0.0389

Venus 78080-09-10 00:15 G 30239447.41 30239447.51 30239447.61 0.3651 0.1542

Moon 78082-05-21 13:41 G 30240065.94 30240066.07 30240066.19 0.2620 0.0123

Earth 78082-05-21 13:41 G 30240065.94 30240066.07 30240066.20 0.2626 0.0059 *

Jupiter 78086-05-21 09:36 G 30241526.77 30241526.90 30241527.03 0.0533 0.0311

Mars 78088-11-13 08:53 G 30242433.75 30242433.87 30242433.98 0.1706 0.0480

Mars 78089-09-27 09:36 G 30242751.84 30242751.90 30242751.96 0.1805 0.1648

Saturn 78091-09-05 09:36 G 30243459.75 30243459.90 30243460.06 0.0289 0.0121

Jupiter 78091-10-09 05:03 G 30243493.64 30243493.71 30243493.78 0.0497 0.0426

Saturn 78091-12-03 05:17 G 30243548.56 30243548.72 30243548.88 0.0289 0.0048

Jupiter 78092-01-06 13:41 G 30243582.94 30243583.07 30243583.20 0.0494 0.0228

Saturn 78092-03-01 00:15 G 30243637.40 30243637.51 30243637.62 0.0288 0.0211

Moon 78095-05-24 09:51 G 30244816.80 30244816.91 30244817.02 0.2623 0.1246

Earth 78095-05-24 10:34 G 30244816.84 30244816.94 30244817.05 0.2626 0.1334 *

Jupiter 78098-03-09 08:39 G 30245836.71 30245836.86 30245837.02 0.0533 0.0075

Mars 78098-04-05 18:58 G 30245864.19 30245864.29 30245864.38 0.1700 0.1018

Mars 78099-02-17 08:53 G 30246181.73 30246181.87 30246182.02 0.1812 0.0603

Earth 78099-11-16 22:48 G 30246454.36 30246454.45 30246454.55 0.2707 0.1920

Moon 78099-11-17 00:00 G 30246454.40 30246454.50 30246454.60 0.2709 0.1731 *

Mars 78100-03-12 03:51 G 30246569.59 30246569.66 30246569.74 0.1724 0.1327

Earth 78102-05-18 01:41 G 30247366.53 30247366.57 30247366.61 0.2625 0.2449

Moon 78102-05-18 02:39 G 30247366.55 30247366.61 30247366.66 0.2624 0.2290 *

Jupiter 78103-10-26 17:17 G 30247893.08 30247893.22 30247893.36 0.0495 0.0068

Saturn 78106-09-14 14:39 G 30248947.01 30248947.11 30248947.22 0.0270 0.0173

Saturn 78106-12-12 02:53 G 30249035.48 30249035.62 30249035.76 0.0271 0.0058

Saturn 78107-03-10 15:22 G 30249124.00 30249124.14 30249124.28 0.0271 0.0061

Saturn 78107-06-07 04:05 G 30249212.57 30249212.67 30249212.78 0.0271 0.0181

Mars 78107-08-28 05:03 G 30249294.67 30249294.71 30249294.76 0.1695 0.1545

Mars 78108-07-10 07:41 G 30249611.67 30249611.82 30249611.97 0.1820 0.0512

Neptune 78108-08-19 17:03 G 30249652.19 30249652.21 30249652.24 0.0088 0.0086

Neptune 78108-11-15 18:29 G 30249740.22 30249740.27 30249740.35 0.0088 0.0079

Neptune 78109-02-11 20:24 G 30249828.27 30249828.35 30249828.44 0.0088 0.0071

Neptune 78109-05-10 22:20 G 30249916.33 30249916.43 30249916.53 0.0088 0.0063

Mars 78109-08-02 13:27 G 30249999.95 30250000.06 30250000.17 0.1718 0.0736

Neptune 78109-08-07 00:00 G 30250004.39 30250004.50 30250004.62 0.0088 0.0056

Neptune 78109-11-03 01:41 G 30250092.46 30250092.57 30250092.71 0.0088 0.0048

Jupiter 78109-12-27 07:56 G 30250146.68 30250146.83 30250146.99 0.0532 0.0161

Neptune 78110-01-30 03:36 G 30250180.52 30250180.65 30250180.79 0.0088 0.0040

Neptune 78110-04-28 05:17 G 30250268.59 30250268.72 30250268.87 0.0088 0.0033

Neptune 78110-07-25 07:12 G 30250356.66 30250356.80 30250356.95 0.0088 0.0025

Neptune 78110-10-21 09:08 G 30250444.73 30250444.88 30250445.03 0.0088 0.0017

Neptune 78111-01-17 11:03 G 30250532.81 30250532.96 30250533.11 0.0088 0.0009

Neptune 78111-04-15 12:44 G 30250620.88 30250621.03 30250621.18 0.0088 0.0002

Neptune 78111-07-12 14:39 G 30250708.96 30250709.11 30250709.26 0.0088 0.0007

Neptune 78111-10-08 16:34 G 30250797.04 30250797.19 30250797.34 0.0088 0.0015

Neptune 78112-01-04 18:15 G 30250885.12 30250885.26 30250885.41 0.0088 0.0023

Neptune 78112-04-01 20:10 G 30250973.20 30250973.34 30250973.48 0.0088 0.0031

Neptune 78112-06-28 22:05 G 30251061.28 30251061.42 30251061.56 0.0088 0.0039

Uranus 78112-09-22 18:29 G 30251147.22 30251147.27 30251147.33 0.0144 0.0130

Neptune 78112-09-25 00:00 G 30251149.37 30251149.50 30251149.63 0.0088 0.0047

Earth 78112-11-19 22:34 G 30251205.31 30251205.44 30251205.57 0.2707 0.0179

Moon 78112-11-19 23:46 G 30251205.36 30251205.49 30251205.62 0.2704 0.0144 *

Uranus 78112-12-19 23:03 G 30251235.37 30251235.46 30251235.56 0.0144 0.0107

Neptune 78112-12-22 01:27 G 30251237.46 30251237.56 30251237.70 0.0088 0.0056

Uranus 78113-03-18 03:36 G 30251323.54 30251323.65 30251323.77 0.0144 0.0083

Neptune 78113-03-20 03:22 G 30251325.55 30251325.64 30251325.76 0.0088 0.0064

Uranus 78113-06-14 08:10 G 30251411.71 30251411.84 30251411.98 0.0144 0.0060

Neptune 78113-06-16 05:17 G 30251413.65 30251413.72 30251413.82 0.0088 0.0072

Uranus 78113-09-10 12:58 G 30251499.90 30251500.04 30251500.18 0.0143 0.0036

Neptune 78113-09-12 07:27 G 30251501.76 30251501.81 30251501.88 0.0088 0.0080

Uranus 78113-12-07 17:46 G 30251588.09 30251588.24 30251588.39 0.0143 0.0012

Uranus 78114-03-05 22:20 G 30251676.28 30251676.43 30251676.58 0.0143 0.0013

Uranus 78114-06-02 03:08 G 30251764.49 30251764.63 30251764.78 0.0143 0.0037

Uranus 78114-08-29 07:56 G 30251852.70 30251852.83 30251852.97 0.0143 0.0061

Uranus 78114-11-25 12:44 G 30251940.91 30251941.03 30251941.15 0.0143 0.0086

Uranus 78115-02-21 17:32 G 30252029.14 30252029.23 30252029.33 0.0143 0.0111

Earth 78115-05-20 22:20 G 30252117.31 30252117.43 30252117.54 0.2626 0.1141

Moon 78115-05-20 22:34 G 30252117.33 30252117.44 30252117.56 0.2619 0.1169 *

Uranus 78115-05-20 22:34 G 30252117.40 30252117.44 30252117.49 0.0143 0.0136 *

Jupiter 78115-08-14 20:39 G 30252203.22 30252203.36 30252203.50 0.0495 0.0094

Mars 78117-11-30 05:46 G 30253041.68 30253041.74 30253041.80 0.1827 0.1669

Mars 78118-12-23 23:03 G 30253430.34 30253430.46 30253430.58 0.1712 0.0153

Venus 78119-02-20 06:15 G 30253488.65 30253488.76 30253488.88 0.3722 0.1843

Saturn 78121-01-23 08:24 G 30254191.72 30254191.85 30254191.98 0.0289 0.0179

Saturn 78121-04-22 04:05 G 30254280.50 30254280.67 30254280.84 0.0288 0.0010

Saturn 78121-07-19 23:17 G 30254369.33 30254369.47 30254369.61 0.0288 0.0155

Jupiter 78121-10-15 07:41 G 30254456.71 30254456.82 30254456.93 0.0532 0.0385

Venus 78124-09-05 06:44 G 30255512.72 30255512.78 30255512.84 0.3720 0.3265

Earth 78125-11-22 22:05 G 30255956.31 30255956.42 30255956.52 0.2706 0.1511

Moon 78125-11-22 22:20 G 30255956.33 30255956.43 30255956.54 0.2700 0.1610 *

Venus 78126-03-19 11:17 G 30256072.91 30256072.97 30256073.02 0.3649 0.3173

Jupiter 78127-06-02 23:46 G 30256513.37 30256513.49 30256513.61 0.0496 0.0263

Jupiter 78127-08-31 08:39 G 30256602.78 30256602.86 30256602.95 0.0493 0.0393

Mars 78128-05-15 08:53 G 30256860.76 30256860.87 30256860.99 0.1706 0.0409

Moon 78128-05-22 18:44 G 30256868.15 30256868.28 30256868.40 0.2620 0.0242

Earth 78128-05-22 18:58 G 30256868.17 30256868.29 30256868.42 0.2626 0.0210 *

Mars 78129-03-29 10:05 G 30257178.89 30257178.92 30257178.96 0.1805 0.1754

Venus 78131-10-03 04:34 G 30258096.58 30258096.69 30258096.80 0.3650 0.0311

Jupiter 78133-11-01 08:24 G 30258856.73 30258856.85 30258856.98 0.0534 0.0330

Saturn 78136-02-01 16:34 G 30259679.10 30259679.19 30259679.28 0.0271 0.0207

Pluto 78136-02-05 04:48 G 30259682.62 30259682.70 30259682.81 0.0081 0.0061

Saturn 78136-04-30 04:48 G 30259767.57 30259767.70 30259767.83 0.0271 0.0093

Pluto 78136-05-03 06:29 G 30259770.65 30259770.77 30259770.91 0.0081 0.0040

Saturn 78136-07-27 17:17 G 30259856.07 30259856.22 30259856.36 0.0271 0.0025

Pluto 78136-07-30 08:24 G 30259858.70 30259858.85 30259859.00 0.0081 0.0019

Saturn 78136-10-24 05:46 G 30259944.62 30259944.74 30259944.87 0.0272 0.0145

Pluto 78136-10-26 09:51 G 30259946.76 30259946.91 30259947.07 0.0081 0.0002

Saturn 78137-01-20 18:44 G 30260033.26 30260033.28 30260033.31 0.0272 0.0267

Pluto 78137-01-22 11:32 G 30260034.83 30260034.98 30260035.13 0.0080 0.0023

Venus 78137-04-17 22:05 G 30260120.35 30260120.42 30260120.50 0.3651 0.2655

Pluto 78137-04-20 12:58 G 30260122.92 30260123.04 30260123.17 0.0080 0.0043

Pluto 78137-07-17 14:24 G 30260211.02 30260211.10 30260211.20 0.0080 0.0064

Mars 78137-10-05 18:58 G 30260291.19 30260291.29 30260291.39 0.1700 0.0955

Mars 78138-08-19 09:22 G 30260608.75 30260608.89 30260609.04 0.1813 0.0700

Jupiter 78139-03-22 03:22 G 30260823.57 30260823.64 30260823.71 0.0497 0.0424

Jupiter 78139-06-19 12:00 G 30260912.87 30260913.00 30260913.12 0.0494 0.0228

Mars 78139-09-11 04:05 G 30260996.60 30260996.67 30260996.74 0.1724 0.1399

Moon 78141-05-25 15:08 G 30261619.02 30261619.13 30261619.23 0.2623 0.1483

Earth 78141-05-25 15:51 G 30261619.06 30261619.16 30261619.26 0.2626 0.1603 *

Jupiter 78145-08-20 06:58 G 30263166.63 30263166.79 30263166.94 0.0533 0.0079

Earth 78145-11-18 04:34 G 30263256.58 30263256.69 30263256.80 0.2707 0.1584

Moon 78145-11-18 05:46 G 30263256.63 30263256.74 30263256.85 0.2707 0.1510 *

Mars 78147-02-26 05:03 G 30263721.65 30263721.71 30263721.76 0.1695 0.1484

Mars 78148-01-09 08:24 G 30264038.70 30264038.85 30264039.01 0.1820 0.0384

Earth 78148-05-18 06:58 G 30264168.72 30264168.79 30264168.85 0.2625 0.2198

Moon 78148-05-18 07:41 G 30264168.75 30264168.82 30264168.89 0.2622 0.2168 *

Mars 78149-01-31 13:27 G 30264426.95 30264427.06 30264427.16 0.1718 0.0797

Saturn 78150-06-12 10:20 G 30264923.82 30264923.93 30264924.05 0.0289 0.0209

Saturn 78150-09-09 06:15 G 30265012.59 30265012.76 30265012.92 0.0289 0.0039

Saturn 78150-12-07 01:27 G 30265101.42 30265101.56 30265101.71 0.0289 0.0127

Saturn 78151-03-05 20:24 G 30265190.34 30265190.35 30265190.35 0.0288 0.0288

Jupiter 78151-04-07 15:22 G 30265223.00 30265223.14 30265223.28 0.0495 0.0067

Uranus 78155-07-05 06:29 G 30266772.70 30266772.77 30266772.87 0.0134 0.0115

Uranus 78155-10-01 12:00 G 30266860.88 30266861.00 30266861.13 0.0134 0.0092

Uranus 78155-12-28 17:32 G 30266949.08 30266949.23 30266949.37 0.0134 0.0069

Uranus 78156-03-25 22:34 G 30267037.29 30267037.44 30267037.60 0.0135 0.0047

Uranus 78156-06-22 03:51 G 30267125.50 30267125.66 30267125.83 0.0135 0.0024

Uranus 78156-09-18 09:08 G 30267213.72 30267213.88 30267214.05 0.0135 0.0002

Uranus 78156-12-15 14:10 G 30267301.93 30267302.09 30267302.26 0.0135 0.0021

Uranus 78157-03-13 19:12 G 30267390.15 30267390.30 30267390.47 0.0135 0.0043

Mars 78157-05-31 06:29 G 30267468.68 30267468.77 30267468.85 0.1827 0.1552

Jupiter 78157-06-08 06:00 G 30267476.59 30267476.75 30267476.90 0.0532 0.0162

Uranus 78157-06-10 00:29 G 30267478.38 30267478.52 30267478.66 0.0135 0.0064

Uranus 78157-09-06 05:17 G 30267566.61 30267566.72 30267566.86 0.0135 0.0086

Uranus 78157-12-03 10:34 G 30267654.84 30267654.94 30267655.04 0.0135 0.0107

Uranus 78158-03-01 15:08 G 30267743.10 30267743.13 30267743.19 0.0135 0.0129

Mars 78158-06-23 23:03 G 30267857.34 30267857.46 30267857.58 0.1712 0.0219

Earth 78158-11-21 04:05 G 30268007.54 30268007.67 30268007.81 0.2707 0.0163

Moon 78158-11-21 05:17 G 30268007.58 30268007.72 30268007.85 0.2704 0.0357 *

Earth 78161-05-21 03:22 G 30268919.52 30268919.64 30268919.76 0.2626 0.0886

Moon 78161-05-21 03:51 G 30268919.54 30268919.66 30268919.78 0.2620 0.0776 *

Jupiter 78163-01-24 18:58 G 30269533.15 30269533.29 30269533.43 0.0496 0.0092

Saturn 78165-06-20 19:27 G 30270411.24 30270411.31 30270411.38 0.0270 0.0233

Saturn 78165-09-17 07:27 G 30270499.69 30270499.81 30270499.94 0.0270 0.0120

Saturn 78165-12-14 19:56 G 30270588.18 30270588.33 30270588.47 0.0271 0.0005

Saturn 78166-03-13 08:24 G 30270676.72 30270676.85 30270676.98 0.0271 0.0115

Saturn 78166-06-09 21:08 G 30270765.32 30270765.38 30270765.46 0.0272 0.0236

Mars 78167-11-14 08:53 G 30271287.75 30271287.87 30271287.99 0.1706 0.0342

Jupiter 78169-03-27 04:48 G 30271786.60 30271786.70 30271786.81 0.0531 0.0400

Earth 78171-11-24 03:36 G 30272758.55 30272758.65 30272758.74 0.2706 0.1821

Moon 78171-11-24 03:51 G 30272758.56 30272758.66 30272758.76 0.2699 0.1756 *

Moon 78174-05-23 23:46 G 30273670.36 30273670.49 30273670.61 0.2621 0.0353

Earth 78174-05-24 00:15 G 30273670.39 30273670.51 30273670.63 0.2626 0.0480 *

Jupiter 78174-11-12 22:34 G 30273843.32 30273843.44 30273843.56 0.0496 0.0251

Jupiter 78175-02-10 07:27 G 30273932.73 30273932.81 30273932.89 0.0494 0.0406

Venus 78175-09-27 06:00 G 30274161.62 30274161.75 30274161.88 0.3722 0.0019

Mars 78177-04-05 18:58 G 30274718.19 30274718.29 30274718.39 0.1700 0.0887

Mars 78178-02-17 10:20 G 30275035.79 30275035.93 30275036.07 0.1813 0.0821

Mars 78179-03-12 04:05 G 30275423.61 30275423.67 30275423.73 0.1724 0.1468

Saturn 78179-10-30 08:53 G 30275655.81 30275655.87 30275655.93 0.0289 0.0268

Saturn 78180-01-27 04:48 G 30275744.55 30275744.70 30275744.86 0.0289 0.0097

Saturn 78180-04-25 00:29 G 30275833.36 30275833.52 30275833.68 0.0288 0.0071

Saturn 78180-07-22 19:27 G 30275922.22 30275922.31 30275922.40 0.0288 0.0233

Jupiter 78181-04-13 06:00 G 30276186.63 30276186.75 30276186.88 0.0534 0.0324

Venus 78182-10-24 09:08 G 30276745.79 30276745.88 30276745.97 0.3649 0.2116

Mars 78186-08-27 05:03 G 30278148.65 30278148.71 30278148.77 0.1694 0.1416

Jupiter 78186-09-01 01:56 G 30278153.50 30278153.58 30278153.65 0.0497 0.0417

Jupiter 78186-11-29 10:34 G 30278242.81 30278242.94 30278243.06 0.0494 0.0235

Moon 78187-05-26 20:24 G 30278421.26 30278421.35 30278421.44 0.2624 0.1824

Earth 78187-05-26 21:08 G 30278421.30 30278421.38 30278421.47 0.2626 0.1881 *

Mars 78187-07-10 08:53 G 30278465.71 30278465.87 30278466.03 0.1820 0.0286

Venus 78188-05-09 02:24 G 30278769.49 30278769.60 30278769.71 0.3650 0.0793

Mars 78188-08-01 13:27 G 30278853.95 30278854.06 30278854.16 0.1718 0.0867

Neptune 78191-02-26 05:32 G 30279792.68 30279792.73 30279792.82 0.0090 0.0082

Neptune 78191-05-25 08:10 G 30279880.76 30279880.84 30279880.95 0.0090 0.0072

Neptune 78191-08-21 11:03 G 30279968.84 30279968.96 30279969.08 0.0090 0.0062

Neptune 78191-11-17 13:27 G 30280056.94 30280057.06 30280057.20 0.0090 0.0053

Earth 78191-11-19 10:05 G 30280058.81 30280058.92 30280059.04 0.2707 0.1257

Moon 78191-11-19 11:17 G 30280058.85 30280058.97 30280059.10 0.2707 0.1087 *

Neptune 78192-02-13 15:51 G 30280145.03 30280145.16 30280145.32 0.0090 0.0044

Neptune 78192-05-11 18:44 G 30280233.13 30280233.28 30280233.44 0.0090 0.0034

Neptune 78192-08-07 21:08 G 30280321.23 30280321.38 30280321.55 0.0090 0.0025

Neptune 78192-11-03 23:46 G 30280409.33 30280409.49 30280409.66 0.0090 0.0015

Jupiter 78193-01-30 05:46 G 30280496.59 30280496.74 30280496.90 0.0533 0.0097

Neptune 78193-01-31 02:24 G 30280497.43 30280497.60 30280497.76 0.0090 0.0006

Neptune 78193-04-29 04:48 G 30280585.53 30280585.70 30280585.87 0.0090 0.0004

Neptune 78193-07-26 07:12 G 30280673.64 30280673.80 30280673.97 0.0090 0.0013

Neptune 78193-10-22 09:36 G 30280761.75 30280761.90 30280762.07 0.0090 0.0022

Neptune 78194-01-18 12:00 G 30280849.85 30280850.00 30280850.16 0.0090 0.0032

Neptune 78194-04-16 14:24 G 30280937.96 30280938.10 30280938.26 0.0090 0.0041

Earth 78194-05-19 12:00 G 30280970.92 30280971.00 30280971.08 0.2626 0.1946

Moon 78194-05-19 12:44 G 30280970.94 30280971.03 30280971.12 0.2621 0.1832 *

Neptune 78194-07-13 16:48 G 30281026.08 30281026.20 30281026.35 0.0090 0.0050

Neptune 78194-10-09 19:12 G 30281114.19 30281114.30 30281114.44 0.0090 0.0059

Neptune 78195-01-05 21:36 G 30281202.31 30281202.40 30281202.52 0.0090 0.0068

Saturn 78195-02-04 09:08 G 30281231.76 30281231.88 30281231.99 0.0271 0.0159

Neptune 78195-04-04 00:00 G 30281290.43 30281290.50 30281290.60 0.0090 0.0077

Saturn 78195-05-03 21:22 G 30281320.25 30281320.39 30281320.53 0.0271 0.0044

Neptune 78195-07-01 02:24 G 30281378.57 30281378.60 30281378.66 0.0090 0.0086

Saturn 78195-07-31 09:51 G 30281408.77 30281408.91 30281409.05 0.0271 0.0075

Saturn 78195-10-27 22:34 G 30281497.34 30281497.44 30281497.54 0.0272 0.0196

Uranus 78196-10-13 01:12 G 30281848.49 30281848.55 30281848.63 0.0144 0.0125

Mars 78196-11-29 06:58 G 30281895.70 30281895.79 30281895.89 0.1828 0.1434

Uranus 78197-01-09 05:46 G 30281936.65 30281936.74 30281936.85 0.0144 0.0102

Uranus 78197-04-07 10:34 G 30282024.82 30282024.94 30282025.07 0.0144 0.0078

Uranus 78197-07-04 15:08 G 30282113.00 30282113.13 30282113.27 0.0143 0.0054

Uranus 78197-09-30 19:41 G 30282201.18 30282201.32 30282201.47 0.0143 0.0031

Mars 78197-12-22 23:03 G 30282284.34 30282284.46 30282284.58 0.1712 0.0285

Uranus 78197-12-28 00:29 G 30282289.37 30282289.52 30282289.67 0.0143 0.0007

Uranus 78198-03-26 05:17 G 30282377.57 30282377.72 30282377.87 0.0143 0.0018

Uranus 78198-06-22 10:05 G 30282465.78 30282465.92 30282466.06 0.0143 0.0043

Jupiter 78198-09-17 13:41 G 30282552.93 30282553.07 30282553.22 0.0495 0.0073

Uranus 78198-09-18 14:39 G 30282553.99 30282554.11 30282554.25 0.0143 0.0068

Uranus 78198-12-15 19:41 G 30282642.21 30282642.32 30282642.44 0.0143 0.0092

Uranus 78199-03-14 00:29 G 30282730.44 30282730.52 30282730.61 0.0143 0.0117

Uranus 78199-06-10 05:17 G 30282818.71 30282818.72 30282818.75 0.0143 0.0142

Jupiter 78204-11-19 04:05 G 30284806.52 30284806.67 30284806.83 0.0532 0.0154

Earth 78204-11-22 09:51 G 30284809.78 30284809.91 30284810.04 0.2707 0.0475

Moon 78204-11-22 10:34 G 30284809.81 30284809.94 30284810.07 0.2703 0.0494 *

Mars 78207-05-16 08:53 G 30285714.75 30285714.87 30285714.99 0.1706 0.0280

Earth 78207-05-23 08:39 G 30285721.74 30285721.86 30285721.98 0.2626 0.0619

Moon 78207-05-23 08:53 G 30285721.75 30285721.87 30285721.99 0.2620 0.0660 *

Saturn 78209-06-16 06:15 G 30286476.61 30286476.76 30286476.91 0.0289 0.0133

Saturn 78209-09-13 01:56 G 30286565.41 30286565.58 30286565.74 0.0289 0.0036

Saturn 78209-12-10 20:53 G 30286654.26 30286654.37 30286654.49 0.0289 0.0200

Jupiter 78210-07-07 17:17 G 30286863.08 30286863.22 30286863.36 0.0496 0.0090

Jupiter 78216-09-07 03:08 G 30289116.52 30289116.63 30289116.74 0.0531 0.0394

Mars 78216-10-05 18:58 G 30289145.18 30289145.29 30289145.39 0.1700 0.0824

Mars 78217-08-19 10:48 G 30289462.82 30289462.95 30289463.09 0.1812 0.0928

Earth 78217-11-25 09:08 G 30289560.80 30289560.88 30289560.96 0.2706 0.2131

Moon 78217-11-25 09:08 G 30289560.81 30289560.88 30289560.96 0.2699 0.2229 *

Mars 78218-09-11 03:51 G 30289850.61 30289850.66 30289850.72 0.1724 0.1528

Moon 78220-05-25 04:48 G 30290472.58 30290472.70 30290472.82 0.2620 0.0756

Earth 78220-05-25 05:32 G 30290472.61 30290472.73 30290472.85 0.2626 0.0746 *

Jupiter 78222-04-25 20:53 G 30291173.25 30291173.37 30291173.49 0.0496 0.0248

Jupiter 78222-07-24 05:46 G 30291262.67 30291262.74 30291262.82 0.0494 0.0411

Saturn 78224-06-24 11:46 G 30291963.89 30291963.99 30291964.10 0.0270 0.0186

Saturn 78224-09-21 00:00 G 30292052.36 30292052.50 30292052.64 0.0270 0.0071

Earth 78224-11-17 15:51 G 30292110.16 30292110.16 30292110.16 0.2707 0.2707

Moon 78224-11-17 16:48 G 30292110.18 30292110.20 30292110.22 0.2711 0.2649

Saturn 78224-12-18 12:29 G 30292140.88 30292141.02 30292141.16 0.0271 0.0046

Saturn 78225-03-17 00:58 G 30292229.43 30292229.54 30292229.66 0.0271 0.0166

Mars 78226-02-26 05:03 G 30292575.64 30292575.71 30292575.78 0.1694 0.1349

Venus 78226-10-19 05:03 G 30292810.67 30292810.71 30292810.76 0.3723 0.3443

Mars 78227-01-09 09:36 G 30292892.74 30292892.90 30292893.06 0.1820 0.0165

Mars 78228-02-01 13:27 G 30293280.96 30293281.06 30293281.16 0.1718 0.0934

Jupiter 78228-09-24 03:36 G 30293516.52 30293516.65 30293516.77 0.0534 0.0314

Venus 78232-05-04 05:46 G 30294834.63 30294834.74 30294834.86 0.3721 0.1806

Moon 78233-05-28 01:27 G 30295223.48 30295223.56 30295223.65 0.2626 0.1987

Earth 78233-05-28 02:24 G 30295223.53 30295223.60 30295223.67 0.2627 0.2155 *

Jupiter 78234-02-12 00:44 G 30295483.45 30295483.53 30295483.61 0.0497 0.0404

Jupiter 78234-05-12 09:22 G 30295572.77 30295572.89 30295573.01 0.0494 0.0249

Mars 78236-05-31 07:41 G 30296322.71 30296322.82 30296322.93 0.1827 0.1312

Mars 78237-06-23 23:03 G 30296711.34 30296711.46 30296711.58 0.1712 0.0355

Earth 78237-11-20 15:51 G 30296861.03 30296861.16 30296861.28 0.2707 0.0929

Moon 78237-11-20 17:03 G 30296861.08 30296861.21 30296861.33 0.2707 0.0820 *

Saturn 78238-11-03 04:34 G 30297208.57 30297208.69 30297208.82 0.0289 0.0192

Saturn 78239-01-31 00:29 G 30297297.36 30297297.52 30297297.69 0.0289 0.0023

Uranus 78239-04-29 08:10 G 30297385.81 30297385.84 30297385.89 0.0134 0.0131

Saturn 78239-04-29 19:41 G 30297386.19 30297386.32 30297386.47 0.0288 0.0145

Venus 78239-06-01 06:58 G 30297418.68 30297418.79 30297418.90 0.3649 0.1037

Uranus 78239-07-26 13:41 G 30297473.97 30297474.07 30297474.17 0.0134 0.0108

Uranus 78239-10-22 19:12 G 30297562.17 30297562.30 30297562.43 0.0134 0.0085

Uranus 78240-01-19 00:15 G 30297650.37 30297650.51 30297650.67 0.0134 0.0063

Uranus 78240-04-16 05:46 G 30297738.58 30297738.74 30297738.90 0.0134 0.0040

Earth 78240-05-20 17:17 G 30297773.13 30297773.22 30297773.32 0.2626 0.1686

Moon 78240-05-20 18:00 G 30297773.15 30297773.25 30297773.35 0.2621 0.1631 *

Jupiter 78240-07-13 03:36 G 30297826.49 30297826.65 30297826.81 0.0533 0.0094

Uranus 78240-07-13 10:48 G 30297826.79 30297826.95 30297827.12 0.0135 0.0018 *

Uranus 78240-10-09 16:05 G 30297915.01 30297915.17 30297915.34 0.0135 0.0005

Uranus 78241-01-05 21:22 G 30298003.23 30298003.39 30298003.55 0.0135 0.0027

Uranus 78241-04-04 02:24 G 30298091.45 30298091.60 30298091.75 0.0135 0.0049

Uranus 78241-07-01 07:27 G 30298179.67 30298179.81 30298179.95 0.0135 0.0071

Uranus 78241-09-27 12:15 G 30298267.91 30298268.01 30298268.14 0.0135 0.0093

Uranus 78241-12-24 17:17 G 30298356.15 30298356.22 30298356.32 0.0135 0.0114

Venus 78244-12-15 00:29 G 30299442.42 30299442.52 30299442.61 0.3650 0.1891

Jupiter 78246-02-28 12:29 G 30299882.88 30299883.02 30299883.16 0.0495 0.0081

Mars 78246-11-14 08:53 G 30300141.75 30300141.87 30300141.99 0.1706 0.0212

Earth 78250-11-23 15:22 G 30301612.01 30301612.14 30301612.27 0.2707 0.0789

Moon 78250-11-23 16:05 G 30301612.04 30301612.17 30301612.29 0.2701 0.0911 *

Jupiter 78252-05-01 03:08 G 30302136.48 30302136.63 30302136.79 0.0532 0.0134

Moon 78253-05-23 13:56 G 30302523.95 30302524.08 30302524.20 0.2620 0.0335

Earth 78253-05-23 13:56 G 30302523.95 30302524.08 30302524.20 0.2626 0.0360 *

Saturn 78253-11-11 12:58 G 30302695.97 30302696.04 30302696.12 0.0270 0.0227

Saturn 78254-02-08 00:58 G 30302784.41 30302784.54 30302784.67 0.0271 0.0114

Saturn 78254-05-07 13:12 G 30302872.91 30302873.05 30302873.20 0.0271 0.0009

Saturn 78254-08-04 01:56 G 30302961.45 30302961.58 30302961.71 0.0271 0.0121

Saturn 78254-10-31 14:39 G 30303050.05 30303050.11 30303050.18 0.0272 0.0243

Mars 78256-04-05 18:58 G 30303572.18 30303572.29 30303572.39 0.1700 0.0760

Mars 78257-02-17 11:17 G 30303889.85 30303889.97 30303890.10 0.1813 0.1033

Jupiter 78257-12-17 16:05 G 30304193.03 30304193.17 30304193.31 0.0495 0.0081

Mars 78258-03-12 04:05 G 30304277.63 30304277.67 30304277.71 0.1724 0.1599

Moon 78263-11-26 14:39 G 30306363.05 30306363.11 30306363.17 0.2699 0.2366

Earth 78263-11-26 14:39 G 30306363.06 30306363.11 30306363.16 0.2706 0.2446 *

Jupiter 78264-02-18 01:41 G 30306446.46 30306446.57 30306446.68 0.0531 0.0381

Mars 78265-08-27 05:03 G 30307002.63 30307002.71 30307002.78 0.1694 0.1290

Moon 78266-05-26 10:05 G 30307274.80 30307274.92 30307275.04 0.2621 0.0872

Earth 78266-05-26 10:48 G 30307274.83 30307274.95 30307275.06 0.2626 0.1021 *

Mars 78266-07-10 10:34 G 30307319.78 30307319.94 30307320.09 0.1820 0.0067

Mars 78267-08-02 13:27 G 30307707.96 30307708.06 30307708.16 0.1718 0.0997

Saturn 78268-03-22 05:17 G 30307940.63 30307940.72 30307940.82 0.0290 0.0234

Saturn 78268-06-19 01:27 G 30308029.40 30308029.56 30308029.72 0.0289 0.0062

Saturn 78268-09-15 20:53 G 30308118.22 30308118.37 30308118.53 0.0289 0.0106

Saturn 78268-12-13 15:51 G 30308207.10 30308207.16 30308207.22 0.0289 0.0267

Jupiter 78269-10-05 19:27 G 30308503.19 30308503.31 30308503.43 0.0497 0.0243

Jupiter 78270-01-03 04:20 G 30308592.61 30308592.68 30308592.76 0.0494 0.0417

Earth 78270-11-18 21:22 G 30308912.33 30308912.39 30308912.46 0.2707 0.2375

Moon 78270-11-18 22:34 G 30308912.36 30308912.44 30308912.52 0.2710 0.2182 *

Neptune 78273-05-17 16:34 G 30309823.14 30309823.19 30309823.25 0.0088 0.0081

Moon 78273-05-19 02:53 G 30309824.61 30309824.62 30309824.64 0.2623 0.2588

Neptune 78273-08-13 18:00 G 30309911.19 30309911.25 30309911.35 0.0088 0.0074

Neptune 78273-11-09 19:56 G 30309999.24 30309999.33 30309999.44 0.0088 0.0066

Neptune 78274-02-05 21:51 G 30310087.30 30310087.41 30310087.52 0.0088 0.0058

Neptune 78274-05-04 23:32 G 30310175.37 30310175.48 30310175.61 0.0088 0.0050

Neptune 78274-08-01 01:12 G 30310263.43 30310263.55 30310263.69 0.0088 0.0043

Neptune 78274-10-28 03:08 G 30310351.50 30310351.63 30310351.77 0.0088 0.0035

Neptune 78275-01-24 05:03 G 30310439.57 30310439.71 30310439.85 0.0088 0.0027

Neptune 78275-04-22 06:44 G 30310527.64 30310527.78 30310527.93 0.0088 0.0019

Neptune 78275-07-19 08:39 G 30310615.71 30310615.86 30310616.01 0.0088 0.0011

Neptune 78275-10-15 10:34 G 30310703.79 30310703.94 30310704.09 0.0088 0.0004

Mars 78275-11-30 08:24 G 30310749.73 30310749.85 30310749.97 0.1827 0.1194

Neptune 78276-01-11 12:15 G 30310791.86 30310792.01 30310792.16 0.0088 0.0005

Jupiter 78276-03-06 01:56 G 30310846.46 30310846.58 30310846.71 0.0533 0.0325

Neptune 78276-04-08 14:10 G 30310879.94 30310880.09 30310880.24 0.0088 0.0012

Neptune 78276-07-05 15:51 G 30310968.02 30310968.16 30310968.31 0.0088 0.0021

Neptune 78276-10-01 17:46 G 30311056.10 30311056.24 30311056.39 0.0088 0.0028

Mars 78276-12-22 23:03 G 30311138.34 30311138.46 30311138.58 0.1712 0.0416

Neptune 78276-12-28 19:27 G 30311144.18 30311144.31 30311144.46 0.0088 0.0037

Neptune 78277-03-26 21:22 G 30311232.27 30311232.39 30311232.53 0.0088 0.0045

Neptune 78277-06-22 23:03 G 30311320.35 30311320.46 30311320.60 0.0088 0.0053

Neptune 78277-09-19 00:58 G 30311408.45 30311408.54 30311408.66 0.0088 0.0061

Neptune 78277-12-16 02:53 G 30311496.54 30311496.62 30311496.73 0.0088 0.0069

Neptune 78278-03-14 04:48 G 30311584.64 30311584.70 30311584.79 0.0088 0.0077

Neptune 78278-06-10 06:44 G 30311672.76 30311672.78 30311672.83 0.0088 0.0085

Moon 78279-05-29 06:44 G 30312025.74 30312025.78 30312025.83 0.2627 0.2403

Earth 78279-05-29 07:56 G 30312025.78 30312025.83 30312025.87 0.2626 0.2432 *

Uranus 78280-08-07 03:51 G 30312461.65 30312461.66 30312461.68 0.0144 0.0142

Uranus 78280-11-03 08:24 G 30312549.77 30312549.85 30312549.93 0.0144 0.0119

Uranus 78281-01-30 12:44 G 30312637.93 30312638.03 30312638.15 0.0144 0.0096

Uranus 78281-04-28 17:32 G 30312726.11 30312726.23 30312726.36 0.0144 0.0072

Jupiter 78281-07-24 23:17 G 30312813.39 30312813.47 30312813.55 0.0497 0.0399

Uranus 78281-07-25 22:05 G 30312814.29 30312814.42 30312814.56 0.0143 0.0048

Uranus 78281-10-22 02:53 G 30312902.47 30312902.62 30312902.77 0.0143 0.0024

Jupiter 78281-10-22 07:41 G 30312902.71 30312902.82 30312902.95 0.0495 0.0257 *

Uranus 78282-01-18 07:27 G 30312990.67 30312990.81 30312990.96 0.0143 0.0004

Uranus 78282-04-16 12:15 G 30313078.86 30313079.01 30313079.16 0.0143 0.0024

Uranus 78282-07-13 17:03 G 30313167.07 30313167.21 30313167.35 0.0143 0.0049

Uranus 78282-10-09 21:36 G 30313255.28 30313255.40 30313255.54 0.0143 0.0074

Uranus 78283-01-06 02:39 G 30313343.50 30313343.61 30313343.72 0.0143 0.0098

Saturn 78283-03-31 15:36 G 30313428.11 30313428.15 30313428.20 0.0270 0.0254

Uranus 78283-04-04 07:27 G 30313431.74 30313431.81 30313431.89 0.0143 0.0122

Venus 78283-05-26 05:03 G 30313483.59 30313483.71 30313483.83 0.3722 0.1557

Saturn 78283-06-28 03:51 G 30313516.54 30313516.66 30313516.78 0.0270 0.0141

Saturn 78283-09-24 16:05 G 30313605.02 30313605.17 30313605.31 0.0270 0.0027

Earth 78283-11-21 21:22 G 30313663.26 30313663.39 30313663.52 0.2707 0.0602

Moon 78283-11-21 22:34 G 30313663.31 30313663.44 30313663.57 0.2706 0.0487 *

Saturn 78283-12-22 04:34 G 30313693.55 30313693.69 30313693.82 0.0271 0.0092

Saturn 78284-03-19 17:03 G 30313782.13 30313782.21 30313782.31 0.0271 0.0212

Mars 78286-05-15 08:53 G 30314568.75 30314568.87 30314568.99 0.1706 0.0144

Earth 78286-05-21 22:34 G 30314575.34 30314575.44 30314575.54 0.2626 0.1427

Moon 78286-05-21 23:03 G 30314575.36 30314575.46 30314575.57 0.2621 0.1356 *

Jupiter 78287-12-24 01:12 G 30315156.39 30315156.55 30315156.71 0.0533 0.0090

Venus 78288-12-09 05:32 G 30315507.70 30315507.73 30315507.76 0.3721 0.3588

Venus 78290-06-22 11:32 G 30316067.91 30316067.98 30316068.05 0.3648 0.2814

Pluto 78292-04-26 09:51 G 30316741.90 30316741.91 30316741.95 0.0063 0.0062

Pluto 78292-07-23 11:03 G 30316829.87 30316829.96 30316830.06 0.0063 0.0052

Pluto 78292-10-19 11:32 G 30316917.88 30316917.98 30316918.13 0.0063 0.0042

Pluto 78293-01-15 12:44 G 30317005.89 30317006.03 30317006.18 0.0063 0.0030

Pluto 78293-04-13 13:41 G 30317093.92 30317094.07 30317094.23 0.0063 0.0020

Pluto 78293-07-10 14:24 G 30317181.95 30317182.10 30317182.27 0.0063 0.0010

Jupiter 78293-08-10 11:32 G 30317212.84 30317212.98 30317213.12 0.0495 0.0097

Pluto 78293-10-06 15:22 G 30317269.98 30317270.14 30317270.31 0.0064 0.0003

Pluto 78294-01-02 16:05 G 30317358.02 30317358.17 30317358.34 0.0064 0.0013

Pluto 78294-03-31 16:48 G 30317446.07 30317446.20 30317446.37 0.0064 0.0024

Pluto 78294-06-27 18:00 G 30317534.12 30317534.25 30317534.39 0.0064 0.0034

Pluto 78294-09-23 18:44 G 30317622.17 30317622.28 30317622.40 0.0064 0.0045

Pluto 78294-12-20 19:27 G 30317710.25 30317710.31 30317710.40 0.0064 0.0056

Mars 78295-10-05 18:44 G 30317999.18 30317999.28 30317999.39 0.1700 0.0693

Venus 78296-01-06 04:48 G 30318091.59 30318091.70 30318091.81 0.3650 0.0050

Mars 78296-08-18 12:00 G 30318316.88 30318317.00 30318317.12 0.1813 0.1147

Earth 78296-11-23 20:53 G 30318414.25 30318414.37 30318414.49 0.2707 0.1110

Moon 78296-11-23 21:36 G 30318414.28 30318414.40 30318414.52 0.2700 0.1139 *

Mars 78297-09-10 04:05 G 30318704.64 30318704.67 30318704.70 0.1724 0.1667

Saturn 78297-11-05 23:46 G 30318761.34 30318761.49 30318761.65 0.0289 0.0122

Saturn 78298-02-02 19:27 G 30318850.15 30318850.31 30318850.48 0.0289 0.0047

Saturn 78298-05-02 14:39 G 30318939.00 30318939.11 30318939.22 0.0288 0.0210

Moon 78299-05-24 18:58 G 30319326.16 30319326.29 30319326.42 0.2619 0.0140

Earth 78299-05-24 19:12 G 30319326.17 30319326.30 30319326.42 0.2626 0.0098 *

Jupiter 78299-10-12 01:12 G 30319466.39 30319466.55 30319466.70 0.0532 0.0134

Venus 78301-07-22 22:20 G 30320115.37 30320115.43 30320115.49 0.3651 0.2994

Mars 78305-02-26 05:03 G 30321429.63 30321429.71 30321429.79 0.1694 0.1221

Jupiter 78305-05-30 14:53 G 30321522.98 30321523.12 30321523.26 0.0495 0.0069

Mars 78306-01-09 10:48 G 30321746.80 30321746.95 30321747.11 0.1820 0.0071

Mars 78307-02-01 13:27 G 30322134.96 30322135.06 30322135.15 0.1718 0.1064

Jupiter 78311-08-01 00:44 G 30323776.41 30323776.53 30323776.65 0.0532 0.0361

Moon 78312-05-27 15:22 G 30324077.02 30324077.14 30324077.25 0.2622 0.1271

Earth 78312-05-27 16:05 G 30324077.06 30324077.17 30324077.28 0.2626 0.1291 *

Saturn 78312-11-15 04:34 G 30324248.59 30324248.69 30324248.79 0.0270 0.0186

Saturn 78313-02-11 16:48 G 30324337.06 30324337.20 30324337.33 0.0271 0.0072

Saturn 78313-05-11 05:03 G 30324425.57 30324425.71 30324425.85 0.0271 0.0045

Saturn 78313-08-07 17:32 G 30324514.12 30324514.23 30324514.35 0.0271 0.0165

Mars 78315-06-01 09:08 G 30325176.75 30325176.88 30325177.01 0.1828 0.1078

Mars 78316-06-23 23:03 G 30325565.35 30325565.46 30325565.58 0.1712 0.0484

Earth 78316-11-20 03:08 G 30325714.55 30325714.63 30325714.72 0.2707 0.2031

Moon 78316-11-20 04:20 G 30325714.59 30325714.68 30325714.77 0.2710 0.1988 *

Jupiter 78317-03-18 18:29 G 30325833.14 30325833.27 30325833.39 0.0496 0.0228

Jupiter 78317-06-16 03:08 G 30325922.57 30325922.63 30325922.70 0.0494 0.0430

Earth 78319-05-21 07:12 G 30326626.77 30326626.80 30326626.84 0.2625 0.2476

Moon 78319-05-21 08:10 G 30326626.80 30326626.84 30326626.88 0.2622 0.2444 *

Uranus 78323-05-20 14:53 G 30328087.07 30328087.12 30328087.19 0.0134 0.0125

Uranus 78323-08-16 20:24 G 30328175.25 30328175.35 30328175.47 0.0134 0.0102

Jupiter 78323-08-18 00:44 G 30328176.41 30328176.53 30328176.65 0.0533 0.0342

Uranus 78323-11-13 01:56 G 30328263.45 30328263.58 30328263.72 0.0134 0.0079

Uranus 78324-02-09 07:12 G 30328351.65 30328351.80 30328351.95 0.0134 0.0056

Uranus 78324-05-07 12:29 G 30328439.86 30328440.02 30328440.18 0.0135 0.0034

Uranus 78324-08-03 17:46 G 30328528.07 30328528.24 30328528.41 0.0135 0.0011

Uranus 78324-10-30 23:03 G 30328616.29 30328616.46 30328616.62 0.0135 0.0011

Uranus 78325-01-27 04:05 G 30328704.51 30328704.67 30328704.83 0.0135 0.0033

Uranus 78325-04-25 09:08 G 30328792.74 30328792.88 30328793.04 0.0135 0.0055

Moon 78325-05-30 12:00 G 30328827.97 30328828.00 30328828.04 0.2627 0.2519

Uranus 78325-07-22 14:10 G 30328880.96 30328881.09 30328881.23 0.0135 0.0077

Uranus 78325-10-18 19:27 G 30328969.20 30328969.31 30328969.42 0.0135 0.0098

Mars 78325-11-14 08:53 G 30328995.75 30328995.87 30328995.99 0.1706 0.0100

Uranus 78326-01-15 00:15 G 30329057.45 30329057.51 30329057.59 0.0135 0.0120

Saturn 78327-03-26 23:32 G 30329493.36 30329493.48 30329493.63 0.0290 0.0171

Saturn 78327-06-23 19:41 G 30329582.15 30329582.32 30329582.49 0.0290 0.0002

Saturn 78327-09-20 14:53 G 30329670.99 30329671.12 30329671.26 0.0289 0.0167

Jupiter 78329-01-04 21:51 G 30330143.32 30330143.41 30330143.49 0.0497 0.0391

Jupiter 78329-04-04 06:29 G 30330232.65 30330232.77 30330232.89 0.0495 0.0265

Earth 78329-11-23 02:53 G 30330465.49 30330465.62 30330465.76 0.2707 0.0289

Moon 78329-11-23 04:05 G 30330465.53 30330465.67 30330465.80 0.2704 0.0146 *

Earth 78332-05-23 03:36 G 30331377.54 30331377.65 30331377.77 0.2626 0.1177

Moon 78332-05-23 04:05 G 30331377.56 30331377.67 30331377.79 0.2620 0.1104 *

Mars 78335-04-06 18:44 G 30332426.17 30332426.28 30332426.40 0.1700 0.0628

Jupiter 78335-06-06 00:00 G 30332486.35 30332486.50 30332486.66 0.0532 0.0108

Mars 78336-02-18 12:44 G 30332743.92 30332744.03 30332744.14 0.1812 0.1258

Venus 78340-01-01 04:48 G 30334156.57 30334156.70 30334156.84 0.3722 0.0310

Jupiter 78341-01-21 10:05 G 30334542.78 30334542.92 30334543.06 0.0495 0.0105

Saturn 78342-04-04 07:12 G 30334980.72 30334980.80 30334980.89 0.0270 0.0214

Saturn 78342-07-01 19:27 G 30335069.18 30335069.31 30335069.44 0.0270 0.0100

Saturn 78342-09-28 07:41 G 30335157.68 30335157.82 30335157.96 0.0270 0.0016

Earth 78342-11-26 02:24 G 30335216.49 30335216.60 30335216.71 0.2707 0.1425

Moon 78342-11-26 03:08 G 30335216.52 30335216.63 30335216.74 0.2700 0.1496 *

Saturn 78342-12-25 20:10 G 30335246.22 30335246.34 30335246.47 0.0271 0.0134

Saturn 78343-03-24 08:53 G 30335334.83 30335334.87 30335334.92 0.0271 0.0255

Mars 78344-08-27 05:03 G 30335856.62 30335856.71 30335856.79 0.1694 0.1156

Moon 78345-05-26 00:00 G 30336128.38 30336128.50 30336128.63 0.2619 0.0177

Earth 78345-05-26 00:29 G 30336128.39 30336128.52 30336128.64 0.2626 0.0203 *

Mars 78345-07-10 11:32 G 30336173.82 30336173.98 30336174.14 0.1820 0.0176

Mars 78346-08-02 13:27 G 30336561.97 30336562.06 30336562.15 0.1718 0.1134

Venus 78347-01-28 09:22 G 30336740.79 30336740.89 30336740.98 0.3649 0.1760

Jupiter 78347-03-24 23:03 G 30336796.31 30336796.46 30336796.62 0.0532 0.0131

Venus 78352-08-13 02:39 G 30338764.51 30338764.61 30338764.72 0.3650 0.1133

Jupiter 78352-11-09 13:41 G 30338852.93 30338853.07 30338853.21 0.0496 0.0053

Mars 78354-01-17 15:08 G 30339287.12 30339287.13 30339287.15 0.1689 0.1672

Mars 78354-11-30 09:51 G 30339603.77 30339603.91 30339604.04 0.1827 0.0960

Neptune 78355-08-29 02:10 G 30339875.55 30339875.59 30339875.66 0.0090 0.0085

Neptune 78355-11-25 04:34 G 30339963.62 30339963.69 30339963.80 0.0090 0.0076

Mars 78355-12-23 23:03 G 30339992.35 30339992.46 30339992.57 0.1712 0.0549

Neptune 78356-02-21 07:27 G 30340051.71 30340051.81 30340051.93 0.0090 0.0066

Neptune 78356-05-19 10:20 G 30340139.80 30340139.93 30340140.06 0.0090 0.0056

Saturn 78356-08-12 22:05 G 30340225.32 30340225.42 30340225.52 0.0290 0.0231

Neptune 78356-08-15 12:44 G 30340227.89 30340228.03 30340228.18 0.0090 0.0047

Saturn 78356-11-09 18:15 G 30340314.09 30340314.26 30340314.42 0.0289 0.0058

Neptune 78356-11-11 15:22 G 30340315.99 30340316.14 30340316.29 0.0090 0.0037

Saturn 78357-02-06 13:41 G 30340402.92 30340403.07 30340403.23 0.0289 0.0109

Neptune 78357-02-07 17:46 G 30340404.09 30340404.24 30340404.41 0.0090 0.0028

Saturn 78357-05-06 08:39 G 30340491.81 30340491.86 30340491.92 0.0288 0.0271

Neptune 78357-05-06 20:24 G 30340492.19 30340492.35 30340492.52 0.0090 0.0018

Neptune 78357-08-02 23:03 G 30340580.29 30340580.46 30340580.62 0.0090 0.0009

Neptune 78357-10-30 01:27 G 30340668.40 30340668.56 30340668.73 0.0090 0.0002

Neptune 78358-01-26 04:05 G 30340756.50 30340756.67 30340756.83 0.0090 0.0010

Neptune 78358-04-24 06:29 G 30340844.61 30340844.77 30340844.93 0.0090 0.0019

Moon 78358-05-28 20:24 G 30340879.25 30340879.35 30340879.46 0.2624 0.1434

Earth 78358-05-28 21:22 G 30340879.29 30340879.39 30340879.49 0.2626 0.1569 *

Neptune 78358-07-21 08:53 G 30340932.72 30340932.87 30340933.03 0.0090 0.0028

Neptune 78358-10-17 11:17 G 30341020.83 30341020.97 30341021.13 0.0090 0.0038

Jupiter 78359-01-10 22:48 G 30341106.33 30341106.45 30341106.57 0.0531 0.0357

Neptune 78359-01-13 13:41 G 30341108.94 30341109.07 30341109.22 0.0090 0.0047

Neptune 78359-04-11 16:05 G 30341197.05 30341197.17 30341197.31 0.0090 0.0056

Neptune 78359-07-08 18:29 G 30341285.17 30341285.27 30341285.39 0.0090 0.0065

Neptune 78359-10-04 20:53 G 30341373.29 30341373.37 30341373.47 0.0090 0.0074

Neptune 78359-12-31 23:17 G 30341461.42 30341461.47 30341461.54 0.0090 0.0083

Earth 78362-11-21 08:53 G 30342516.77 30342516.87 30342516.97 0.2707 0.1698

Moon 78362-11-21 10:05 G 30342516.81 30342516.92 30342517.03 0.2709 0.1488 *

Uranus 78364-08-28 11:03 G 30343162.92 30343162.96 30343163.02 0.0144 0.0135

Jupiter 78364-08-28 17:17 G 30343163.09 30343163.22 30343163.35 0.0496 0.0214

Uranus 78364-11-24 15:36 G 30343251.07 30343251.15 30343251.25 0.0144 0.0112

Jupiter 78364-11-26 02:10 G 30343252.53 30343252.59 30343252.65 0.0494 0.0444

Uranus 78365-02-20 20:10 G 30343339.23 30343339.34 30343339.46 0.0144 0.0088

Mars 78365-05-15 08:53 G 30343422.75 30343422.87 30343422.99 0.1706 0.0019

Uranus 78365-05-20 00:44 G 30343427.41 30343427.53 30343427.67 0.0144 0.0065

Earth 78365-05-21 12:29 G 30343428.96 30343429.02 30343429.08 0.2625 0.2228

Moon 78365-05-21 13:12 G 30343428.98 30343429.05 30343429.13 0.2622 0.2065 *

Uranus 78365-08-16 05:32 G 30343515.59 30343515.73 30343515.87 0.0144 0.0041

Uranus 78365-11-12 10:05 G 30343603.78 30343603.92 30343604.07 0.0143 0.0017

Uranus 78366-02-08 14:53 G 30343691.97 30343692.12 30343692.27 0.0143 0.0007

Uranus 78366-05-07 19:41 G 30343780.17 30343780.32 30343780.46 0.0143 0.0032

Uranus 78366-08-04 00:15 G 30343868.38 30343868.51 30343868.65 0.0143 0.0056

Uranus 78366-10-31 05:03 G 30343956.59 30343956.71 30343956.84 0.0143 0.0081

Uranus 78367-01-27 09:51 G 30344044.81 30344044.91 30344045.02 0.0143 0.0105

Uranus 78367-04-25 14:39 G 30344133.06 30344133.11 30344133.18 0.0143 0.0130

Jupiter 78371-01-28 00:00 G 30345506.39 30345506.50 30345506.61 0.0534 0.0365

Saturn 78371-08-22 07:56 G 30345712.80 30345712.83 30345712.87 0.0270 0.0259

Saturn 78371-11-18 19:56 G 30345801.21 30345801.33 30345801.45 0.0270 0.0147

Saturn 78372-02-15 08:10 G 30345889.70 30345889.84 30345889.98 0.0270 0.0032

Saturn 78372-05-13 20:24 G 30345978.22 30345978.35 30345978.49 0.0271 0.0086

Saturn 78372-08-10 09:08 G 30346066.79 30346066.88 30346066.98 0.0271 0.0205

Mars 78374-10-05 18:44 G 30346853.17 30346853.28 30346853.40 0.1700 0.0564

Mars 78375-08-19 13:12 G 30347170.95 30347171.05 30347171.15 0.1813 0.1355

Earth 78375-11-24 08:39 G 30347267.73 30347267.86 30347267.99 0.2707 0.0061

Moon 78375-11-24 09:36 G 30347267.77 30347267.90 30347268.03 0.2703 0.0092 *

Jupiter 78376-06-16 20:53 G 30347473.28 30347473.37 30347473.47 0.0497 0.0373

Jupiter 78376-09-14 05:32 G 30347562.61 30347562.73 30347562.85 0.0494 0.0282

Moon 78378-05-24 09:08 G 30348179.76 30348179.88 30348180.00 0.2619 0.0932

Earth 78378-05-24 08:53 G 30348179.76 30348179.87 30348179.99 0.2626 0.0911 *

Pluto 78382-06-27 16:05 G 30349675.12 30349675.17 30349675.24 0.0081 0.0074

Pluto 78382-09-23 17:46 G 30349763.13 30349763.24 30349763.36 0.0081 0.0053

Jupiter 78382-11-15 23:03 G 30349816.31 30349816.46 30349816.62 0.0532 0.0129

Pluto 78382-12-20 19:27 G 30349851.17 30349851.31 30349851.45 0.0081 0.0032

Pluto 78383-03-18 20:53 G 30349939.22 30349939.37 30349939.53 0.0081 0.0012

Pluto 78383-06-14 22:34 G 30350027.29 30350027.44 30350027.59 0.0081 0.0009

Pluto 78383-09-11 00:00 G 30350115.36 30350115.50 30350115.65 0.0080 0.0030

Pluto 78383-12-08 01:41 G 30350203.45 30350203.57 30350203.69 0.0080 0.0051

Mars 78384-02-26 04:48 G 30350283.61 30350283.70 30350283.79 0.1694 0.1096

Pluto 78384-03-05 02:53 G 30350291.57 30350291.62 30350291.70 0.0080 0.0072

Mars 78385-01-08 12:29 G 30350600.86 30350601.02 30350601.17 0.1820 0.0301

Saturn 78385-12-30 21:08 G 30350957.36 30350957.38 30350957.41 0.0290 0.0287

Mars 78386-01-31 13:27 G 30350988.97 30350989.06 30350989.14 0.1717 0.1192

Saturn 78386-03-29 17:32 G 30351046.07 30351046.23 30351046.38 0.0290 0.0112

Saturn 78386-06-26 13:12 G 30351134.89 30351135.05 30351135.21 0.0290 0.0058

Saturn 78386-09-23 08:24 G 30351223.75 30351223.85 30351223.96 0.0289 0.0222

Jupiter 78388-07-03 08:39 G 30351872.73 30351872.86 30351873.00 0.0496 0.0117

Earth 78388-11-26 08:10 G 30352018.74 30352018.84 30352018.94 0.2706 0.1745

Moon 78388-11-26 08:24 G 30352018.76 30352018.85 30352018.95 0.2700 0.1792 *

Venus 78391-01-22 03:51 G 30352805.59 30352805.66 30352805.73 0.3723 0.3160

Moon 78391-05-27 05:17 G 30352930.59 30352930.72 30352930.84 0.2620 0.0413

Earth 78391-05-27 05:32 G 30352930.61 30352930.73 30352930.86 0.2626 0.0447 *

Mars 78393-07-18 15:22 G 30353714.10 30353714.14 30353714.17 0.1689 0.1606

Mars 78394-05-31 10:34 G 30354030.79 30354030.94 30354031.08 0.1827 0.0846

Jupiter 78394-09-03 22:20 G 30354126.27 30354126.43 30354126.59 0.0531 0.0107

Mars 78395-06-23 23:03 G 30354419.35 30354419.46 30354419.57 0.1712 0.0614

Venus 78396-08-07 04:34 G 30354829.58 30354829.69 30354829.80 0.3722 0.2096

Venus 78398-02-18 13:56 G 30355390.05 30355390.08 30355390.10 0.3648 0.3521

Jupiter 78400-04-21 12:29 G 30356182.88 30356183.02 30356183.16 0.0496 0.0045

Saturn 78401-04-06 22:48 G 30356533.34 30356533.45 30356533.56 0.0269 0.0174

Saturn 78401-07-04 10:48 G 30356621.81 30356621.95 30356622.09 0.0270 0.0061

Saturn 78401-09-30 23:03 G 30356710.32 30356710.46 30356710.61 0.0270 0.0056

Saturn 78401-12-28 11:46 G 30356798.88 30356798.99 30356799.10 0.0271 0.0175

Venus 78403-09-04 07:12 G 30357413.69 30357413.80 30357413.91 0.3649 0.0697

Moon 78404-05-29 01:41 G 30357681.47 30357681.57 30357681.66 0.2624 0.1753

Earth 78404-05-29 02:39 G 30357681.52 30357681.61 30357681.70 0.2626 0.1840 *

Mars 78404-11-13 08:53 G 30357849.75 30357849.87 30357849.99 0.1706 0.0052

Jupiter 78406-06-22 21:08 G 30358436.26 30358436.38 30358436.50 0.0531 0.0349

Uranus 78407-06-09 22:05 G 30358788.35 30358788.42 30358788.51 0.0134 0.0118

Uranus 78407-09-06 03:36 G 30358876.53 30358876.65 30358876.77 0.0134 0.0095

Uranus 78407-12-03 08:39 G 30358964.73 30358964.86 30358965.02 0.0135 0.0073

Uranus 78408-02-29 14:10 G 30359052.94 30359053.09 30359053.25 0.0135 0.0050

Uranus 78408-05-27 19:27 G 30359141.15 30359141.31 30359141.48 0.0135 0.0027

Uranus 78408-08-24 00:44 G 30359229.37 30359229.53 30359229.70 0.0135 0.0006

Uranus 78408-11-20 06:00 G 30359317.59 30359317.75 30359317.91 0.0135 0.0018

Earth 78408-11-21 14:24 G 30359318.99 30359319.10 30359319.22 0.2707 0.1364

Moon 78408-11-21 15:36 G 30359319.04 30359319.15 30359319.27 0.2708 0.1327 *

Uranus 78409-02-16 11:03 G 30359405.81 30359405.96 30359406.12 0.0135 0.0040

Venus 78409-03-20 00:29 G 30359437.43 30359437.52 30359437.61 0.3650 0.2207

Uranus 78409-05-15 16:05 G 30359494.03 30359494.17 30359494.33 0.0135 0.0062

Uranus 78409-08-11 21:22 G 30359582.26 30359582.39 30359582.52 0.0135 0.0083

Uranus 78409-11-08 02:10 G 30359670.50 30359670.59 30359670.70 0.0135 0.0105

Uranus 78410-02-04 07:27 G 30359758.76 30359758.81 30359758.86 0.0135 0.0126

Earth 78411-05-22 17:46 G 30360231.16 30360231.24 30360231.32 0.2625 0.1973

Moon 78411-05-22 18:29 G 30360231.19 30360231.27 30360231.35 0.2622 0.1956 *

Jupiter 78412-02-08 16:20 G 30360493.05 30360493.18 30360493.31 0.0497 0.0200

Jupiter 78412-05-08 00:58 G 30360582.50 30360582.54 30360582.60 0.0494 0.0461

Mars 78414-04-05 18:44 G 30361280.17 30361280.28 30361280.40 0.1700 0.0497

Mars 78415-02-17 13:56 G 30361597.99 30361598.08 30361598.17 0.1812 0.1470

Saturn 78415-08-16 15:51 G 30361778.03 30361778.16 30361778.30 0.0290 0.0172

Saturn 78415-11-13 11:46 G 30361866.83 30361866.99 30361867.16 0.0289 0.0008

Saturn 78416-02-10 07:12 G 30361955.67 30361955.80 30361955.94 0.0289 0.0166

Jupiter 78418-07-09 22:05 G 30362836.31 30362836.42 30362836.54 0.0533 0.0370

Earth 78421-11-24 14:10 G 30364069.96 30364070.09 30364070.23 0.2707 0.0392

Moon 78421-11-24 15:08 G 30364070.00 30364070.13 30364070.26 0.2702 0.0562 *

Mars 78423-08-27 04:48 G 30364710.61 30364710.70 30364710.80 0.1694 0.1031

Jupiter 78423-11-27 19:56 G 30364803.23 30364803.33 30364803.43 0.0497 0.0358

Jupiter 78424-02-25 04:20 G 30364892.57 30364892.68 30364892.80 0.0494 0.0298

Moon 78424-05-24 14:10 G 30364981.97 30364982.09 30364982.21 0.2619 0.0576

Earth 78424-05-24 14:10 G 30364981.97 30364982.09 30364982.21 0.2626 0.0656 *

Mars 78424-07-09 12:44 G 30365027.88 30365028.03 30365028.18 0.1820 0.0392

Mars 78425-08-01 13:27 G 30365415.98 30365416.06 30365416.14 0.1718 0.1262

Jupiter 78430-04-27 22:20 G 30367146.27 30367146.43 30367146.58 0.0533 0.0151

Saturn 78430-08-24 23:17 G 30367265.39 30367265.47 30367265.55 0.0270 0.0221

Saturn 78430-11-21 11:03 G 30367353.84 30367353.96 30367354.10 0.0270 0.0109

Saturn 78431-02-17 23:32 G 30367442.33 30367442.48 30367442.62 0.0270 0.0010

Saturn 78431-05-17 11:46 G 30367530.87 30367530.99 30367531.12 0.0271 0.0125

Saturn 78431-08-14 00:29 G 30367619.46 30367619.52 30367619.58 0.0271 0.0245

Mars 78433-01-16 15:08 G 30368141.08 30368141.13 30368141.17 0.1689 0.1547

Mars 78433-11-29 11:17 G 30368457.82 30368457.97 30368458.11 0.1828 0.0729

Moon 78434-11-27 13:41 G 30368820.99 30368821.07 30368821.16 0.2700 0.2029

Earth 78434-11-27 13:41 G 30368820.99 30368821.07 30368821.15 0.2707 0.2061 *

Mars 78434-12-22 23:03 G 30368846.35 30368846.46 30368846.57 0.1711 0.0678

Jupiter 78435-12-14 07:56 G 30369202.70 30369202.83 30369202.97 0.0495 0.0136

Moon 78437-05-27 10:20 G 30369732.81 30369732.93 30369733.05 0.2621 0.0619

Earth 78437-05-27 10:48 G 30369732.83 30369732.95 30369733.07 0.2626 0.0712 *

Neptune 78437-11-16 14:10 G 30369906.06 30369906.09 30369906.14 0.0088 0.0084

Neptune 78438-02-12 16:05 G 30369994.10 30369994.17 30369994.25 0.0088 0.0076

Neptune 78438-05-11 18:00 G 30370082.16 30370082.25 30370082.34 0.0088 0.0068

Neptune 78438-08-07 19:27 G 30370170.21 30370170.31 30370170.43 0.0088 0.0061

Neptune 78438-11-03 21:22 G 30370258.28 30370258.39 30370258.51 0.0088 0.0053

Neptune 78439-01-30 23:17 G 30370346.34 30370346.47 30370346.60 0.0088 0.0045

Neptune 78439-04-29 00:44 G 30370434.41 30370434.53 30370434.68 0.0088 0.0038

Neptune 78439-07-26 02:39 G 30370522.48 30370522.61 30370522.76 0.0088 0.0030

Neptune 78439-10-22 04:34 G 30370610.55 30370610.69 30370610.84 0.0088 0.0022

Neptune 78440-01-18 06:29 G 30370698.62 30370698.77 30370698.91 0.0088 0.0014

Neptune 78440-04-15 08:10 G 30370786.69 30370786.84 30370786.99 0.0088 0.0006

Neptune 78440-07-12 10:05 G 30370874.77 30370874.92 30370875.07 0.0088 0.0003

Neptune 78440-10-08 11:46 G 30370962.84 30370962.99 30370963.14 0.0088 0.0010

Neptune 78441-01-04 13:41 G 30371050.92 30371051.07 30371051.22 0.0088 0.0018

Neptune 78441-04-02 15:22 G 30371139.00 30371139.14 30371139.29 0.0088 0.0026

Neptune 78441-06-29 17:03 G 30371227.08 30371227.21 30371227.36 0.0088 0.0034

Neptune 78441-09-25 18:58 G 30371315.17 30371315.29 30371315.43 0.0088 0.0042

Neptune 78441-12-22 20:53 G 30371403.25 30371403.37 30371403.50 0.0088 0.0050

Jupiter 78442-02-13 21:22 G 30371456.23 30371456.39 30371456.55 0.0531 0.0084

Neptune 78442-03-20 22:34 G 30371491.34 30371491.44 30371491.57 0.0088 0.0058

Neptune 78442-06-17 00:29 G 30371579.43 30371579.52 30371579.63 0.0088 0.0066

Neptune 78442-09-13 02:24 G 30371667.53 30371667.60 30371667.69 0.0088 0.0074

Neptune 78442-12-10 04:20 G 30371755.64 30371755.68 30371755.74 0.0088 0.0082

Mars 78444-05-14 08:39 G 30372276.74 30372276.86 30372276.98 0.1706 0.0124

Saturn 78445-01-02 14:24 G 30372510.00 30372510.10 30372510.20 0.0291 0.0232

Saturn 78445-04-01 10:34 G 30372598.78 30372598.94 30372599.11 0.0290 0.0059

Saturn 78445-06-29 06:15 G 30372687.61 30372687.76 30372687.92 0.0290 0.0111

Saturn 78445-09-26 01:27 G 30372776.51 30372776.56 30372776.61 0.0289 0.0274

Venus 78447-08-29 03:36 G 30373478.53 30373478.65 30373478.78 0.3723 0.1302

Jupiter 78447-10-02 11:03 G 30373512.82 30373512.96 30373513.11 0.0496 0.0035

Uranus 78448-09-17 18:44 G 30373864.21 30373864.28 30373864.35 0.0144 0.0127

Uranus 78448-12-14 23:03 G 30373952.37 30373952.46 30373952.57 0.0144 0.0104

Uranus 78449-03-13 03:36 G 30374040.54 30374040.65 30374040.78 0.0144 0.0080

Uranus 78449-06-09 08:24 G 30374128.71 30374128.85 30374128.98 0.0144 0.0056

Uranus 78449-09-05 12:58 G 30374216.90 30374217.04 30374217.19 0.0144 0.0033

Uranus 78449-12-02 17:46 G 30374305.09 30374305.24 30374305.38 0.0143 0.0010

Uranus 78450-02-28 22:20 G 30374393.28 30374393.43 30374393.58 0.0143 0.0015

Uranus 78450-05-28 03:08 G 30374481.48 30374481.63 30374481.77 0.0143 0.0040

Moon 78450-05-30 06:58 G 30374483.71 30374483.79 30374483.87 0.2624 0.2003

Earth 78450-05-30 07:56 G 30374483.76 30374483.83 30374483.90 0.2626 0.2119 *

Uranus 78450-08-24 07:41 G 30374569.69 30374569.82 30374569.96 0.0143 0.0064

Uranus 78450-11-20 12:29 G 30374657.91 30374658.02 30374658.14 0.0143 0.0089

Uranus 78451-02-16 17:17 G 30374746.14 30374746.22 30374746.32 0.0143 0.0113

Uranus 78451-05-15 22:05 G 30374834.39 30374834.42 30374834.47 0.0143 0.0138

Mars 78453-10-04 18:44 G 30375707.17 30375707.28 30375707.40 0.1700 0.0433

Jupiter 78453-12-02 20:24 G 30375766.23 30375766.35 30375766.48 0.0530 0.0320

Mars 78454-08-18 14:24 G 30376025.03 30376025.10 30376025.18 0.1812 0.1573

Venus 78454-09-25 11:46 G 30376062.91 30376062.99 30376063.07 0.3648 0.2473

Earth 78454-11-22 20:10 G 30376121.22 30376121.34 30376121.46 0.2707 0.1034

Moon 78454-11-22 21:08 G 30376121.26 30376121.38 30376121.51 0.2706 0.0836 *

Earth 78457-05-22 22:48 G 30377033.36 30377033.45 30377033.54 0.2625 0.1718

Moon 78457-05-22 23:32 G 30377033.38 30377033.48 30377033.58 0.2621 0.1581 *

Jupiter 78459-07-21 14:53 G 30377822.99 30377823.12 30377823.25 0.0497 0.0191

Jupiter 78459-10-18 23:46 G 30377912.45 30377912.49 30377912.53 0.0494 0.0471

Saturn 78460-01-12 02:10 G 30377997.54 30377997.59 30377997.64 0.0269 0.0247

Saturn 78460-04-09 13:56 G 30378085.96 30378086.08 30378086.21 0.0269 0.0136

Venus 78460-04-10 05:03 G 30378086.60 30378086.71 30378086.82 0.3649 0.0378

Saturn 78460-07-07 02:10 G 30378174.45 30378174.59 30378174.73 0.0270 0.0022

Saturn 78460-10-03 14:24 G 30378262.97 30378263.10 30378263.24 0.0270 0.0095

Saturn 78460-12-31 03:08 G 30378351.54 30378351.63 30378351.72 0.0270 0.0214

Mars 78463-02-25 04:48 G 30379137.61 30379137.70 30379137.80 0.1694 0.0965

Mars 78464-01-08 13:27 G 30379454.91 30379455.06 30379455.22 0.1820 0.0515

Mars 78465-01-30 13:27 G 30379842.99 30379843.06 30379843.14 0.1718 0.1328

Venus 78465-10-24 22:34 G 30380110.39 30380110.44 30380110.48 0.3650 0.3313

Jupiter 78465-12-19 20:39 G 30380166.25 30380166.36 30380166.47 0.0533 0.0380

Earth 78467-11-25 19:56 G 30380872.20 30380872.33 30380872.46 0.2707 0.0707

Moon 78467-11-25 20:39 G 30380872.24 30380872.36 30380872.49 0.2702 0.0720 *

Earth 78470-05-25 19:27 G 30381784.18 30381784.31 30381784.43 0.2626 0.0397

Moon 78470-05-25 19:27 G 30381784.19 30381784.31 30381784.43 0.2619 0.0450 *

Jupiter 78471-05-09 18:44 G 30382133.18 30382133.28 30382133.38 0.0497 0.0345

Jupiter 78471-08-07 03:22 G 30382222.53 30382222.64 30382222.75 0.0495 0.0312

Mars 78472-07-17 15:08 G 30382568.08 30382568.13 30382568.19 0.1689 0.1479

Mars 78473-05-30 11:46 G 30382884.84 30382884.99 30382885.14 0.1827 0.0614

Saturn 78474-05-22 12:58 G 30383242.04 30383242.04 30383242.05 0.0290 0.0290

Mars 78474-06-22 23:03 G 30383273.35 30383273.46 30383273.57 0.1712 0.0746

Saturn 78474-08-19 09:22 G 30383330.74 30383330.89 30383331.05 0.0290 0.0115

Saturn 78474-11-16 05:17 G 30383419.56 30383419.72 30383419.88 0.0289 0.0055

Saturn 78475-02-13 00:29 G 30383508.42 30383508.52 30383508.63 0.0289 0.0220

Jupiter 78477-10-07 20:24 G 30384476.20 30384476.35 30384476.51 0.0533 0.0157

Moon 78480-11-27 19:12 G 30385623.24 30385623.30 30385623.35 0.2699 0.2423

Earth 78480-11-27 19:12 G 30385623.24 30385623.30 30385623.36 0.2706 0.2372 *

Mars 78482-10-20 09:22 G 30386314.86 30386314.89 30386314.91 0.1835 0.1801

Jupiter 78483-05-26 06:58 G 30386532.65 30386532.79 30386532.92 0.0495 0.0151

Moon 78483-05-28 15:22 G 30386535.02 30386535.14 30386535.26 0.2622 0.0962

Earth 78483-05-28 16:05 G 30386535.05 30386535.17 30386535.29 0.2626 0.0981 *

Mars 78483-11-13 08:53 G 30386703.75 30386703.87 30386703.99 0.1706 0.0185

Earth 78487-11-21 01:41 G 30388172.52 30388172.57 30388172.62 0.2707 0.2490

Moon 78487-11-21 02:39 G 30388172.55 30388172.61 30388172.68 0.2711 0.2353 *

Jupiter 78489-07-26 20:24 G 30388786.19 30388786.35 30388786.51 0.0532 0.0065

Saturn 78489-08-27 14:39 G 30388818.01 30388818.11 30388818.21 0.0269 0.0183

Saturn 78489-11-24 02:39 G 30388906.47 30388906.61 30388906.75 0.0270 0.0070

Saturn 78490-02-20 14:53 G 30388994.98 30388995.12 30388995.26 0.0270 0.0046

Saturn 78490-05-20 03:08 G 30389083.53 30389083.63 30389083.75 0.0271 0.0165

Moon 78490-05-21 08:39 G 30389084.86 30389084.86 30389084.87 0.2625 0.2615

Uranus 78491-06-30 05:03 G 30389489.62 30389489.71 30389489.80 0.0134 0.0112

Uranus 78491-09-26 10:20 G 30389577.81 30389577.93 30389578.06 0.0134 0.0089

Uranus 78491-12-23 15:36 G 30389666.01 30389666.15 30389666.31 0.0135 0.0067

Uranus 78492-03-20 21:08 G 30389754.22 30389754.38 30389754.54 0.0135 0.0044

Uranus 78492-06-17 02:24 G 30389842.44 30389842.60 30389842.77 0.0135 0.0021

Uranus 78492-09-13 07:41 G 30389930.65 30389930.82 30389930.99 0.0135 0.0002

Uranus 78492-12-10 12:44 G 30390018.87 30390019.03 30390019.20 0.0135 0.0024

Uranus 78493-03-08 17:46 G 30390107.09 30390107.24 30390107.40 0.0135 0.0046

Mars 78493-04-04 18:44 G 30390134.16 30390134.28 30390134.40 0.1700 0.0371

Uranus 78493-06-04 23:03 G 30390195.32 30390195.46 30390195.60 0.0135 0.0067

Uranus 78493-09-01 04:05 G 30390283.55 30390283.67 30390283.80 0.0135 0.0089

Uranus 78493-11-28 08:53 G 30390371.79 30390371.87 30390371.97 0.0135 0.0111

Mars 78494-02-16 15:08 G 30390452.07 30390452.13 30390452.19 0.1813 0.1676

Uranus 78494-02-24 13:56 G 30390460.06 30390460.08 30390460.12 0.0135 0.0132

Jupiter 78495-03-14 10:34 G 30390842.80 30390842.94 30390843.08 0.0496 0.0011

Moon 78496-05-30 12:15 G 30391285.95 30391286.01 30391286.07 0.2625 0.2274

Earth 78496-05-30 13:12 G 30391286.00 30391286.05 30391286.10 0.2626 0.2393 *

Earth 78500-11-24 01:41 G 30392923.45 30392923.57 30392923.70 0.2707 0.0706

Moon 78500-11-24 02:53 G 30392923.49 30392923.62 30392923.75 0.2705 0.0640 *

Jupiter 78501-05-15 19:41 G 30393096.18 30393096.32 30393096.45 0.0531 0.0296

Mars 78502-08-27 04:48 G 30393564.60 30393564.70 30393564.80 0.1694 0.0903

Earth 78503-05-25 04:05 G 30393835.56 30393835.67 30393835.77 0.2625 0.1464

Moon 78503-05-25 04:34 G 30393835.58 30393835.69 30393835.79 0.2620 0.1464 *

Mars 78503-07-10 14:24 G 30393881.95 30393882.10 30393882.24 0.1820 0.0631

Saturn 78504-01-07 07:27 G 30394062.68 30394062.81 30394062.95 0.0291 0.0179

Saturn 78504-04-05 03:36 G 30394151.48 30394151.65 30394151.82 0.0290 0.0007

Venus 78504-04-05 03:36 G 30394151.52 30394151.65 30394151.78 0.3723 0.0565 *

Saturn 78504-07-02 23:03 G 30394240.33 30394240.46 30394240.60 0.0290 0.0161

Mars 78504-08-01 13:27 G 30394269.99 30394270.06 30394270.13 0.1717 0.1388

Jupiter 78507-01-01 13:41 G 30395152.94 30395153.07 30395153.20 0.0497 0.0179

Jupiter 78507-03-31 22:34 G 30395242.41 30395242.44 30395242.47 0.0495 0.0483

Venus 78511-05-03 09:36 G 30396735.80 30396735.90 30396736.00 0.3648 0.1409

Mars 78512-01-17 15:08 G 30396995.07 30396995.13 30396995.19 0.1689 0.1417

Mars 78512-11-29 12:29 G 30397311.86 30397312.02 30397312.17 0.1827 0.0503

Jupiter 78513-06-01 20:10 G 30397496.24 30397496.34 30397496.44 0.0533 0.0410

Earth 78513-11-27 01:27 G 30397674.44 30397674.56 30397674.68 0.2707 0.1024

Moon 78513-11-27 02:10 G 30397674.47 30397674.59 30397674.71 0.2702 0.1177 *

Mars 78513-12-22 23:03 G 30397700.35 30397700.46 30397700.56 0.1712 0.0807

Moon 78516-05-27 00:29 G 30398586.39 30398586.52 30398586.65 0.2619 0.0063

Earth 78516-05-27 00:29 G 30398586.40 30398586.52 30398586.65 0.2626 0.0134 *

Venus 78516-11-16 02:53 G 30398759.52 30398759.62 30398759.72 0.3649 0.1459

Jupiter 78518-10-20 17:17 G 30399463.12 30399463.22 30399463.33 0.0498 0.0337

Saturn 78519-01-15 17:32 G 30399550.14 30399550.23 30399550.32 0.0269 0.0209

Jupiter 78519-01-18 01:56 G 30399552.48 30399552.58 30399552.69 0.0495 0.0322

Saturn 78519-04-14 05:32 G 30399638.59 30399638.73 30399638.86 0.0269 0.0097

Saturn 78519-07-11 17:32 G 30399727.09 30399727.23 30399727.38 0.0270 0.0019

Saturn 78519-10-08 06:00 G 30399815.63 30399815.75 30399815.88 0.0270 0.0135

Saturn 78520-01-04 18:29 G 30399904.24 30399904.27 30399904.33 0.0270 0.0256

Neptune 78520-02-27 22:34 G 30399958.44 30399958.44 30399958.48 0.0090 0.0089

Neptune 78520-05-26 01:27 G 30400046.49 30400046.56 30400046.65 0.0090 0.0079

Neptune 78520-08-22 03:51 G 30400134.57 30400134.66 30400134.78 0.0090 0.0070

Neptune 78520-11-18 06:44 G 30400222.66 30400222.78 30400222.91 0.0090 0.0060

Neptune 78521-02-14 09:08 G 30400310.75 30400310.88 30400311.03 0.0090 0.0051

Neptune 78521-05-13 11:46 G 30400398.85 30400398.99 30400399.15 0.0090 0.0041

Neptune 78521-08-09 14:24 G 30400486.95 30400487.10 30400487.26 0.0090 0.0031

Neptune 78521-11-05 17:03 G 30400575.05 30400575.21 30400575.37 0.0090 0.0022

Neptune 78522-02-01 19:27 G 30400663.15 30400663.31 30400663.48 0.0090 0.0013

Mars 78522-04-21 10:05 G 30400741.86 30400741.92 30400741.99 0.1835 0.1670

Neptune 78522-04-30 22:05 G 30400751.26 30400751.42 30400751.59 0.0090 0.0003

Neptune 78522-07-28 00:44 G 30400839.36 30400839.53 30400839.69 0.0090 0.0006

Neptune 78522-10-24 03:08 G 30400927.47 30400927.63 30400927.80 0.0090 0.0015

Neptune 78523-01-20 05:32 G 30401015.58 30401015.73 30401015.89 0.0090 0.0025

Neptune 78523-04-18 08:10 G 30401103.69 30401103.84 30401103.99 0.0090 0.0034

Mars 78523-05-15 08:53 G 30401130.75 30401130.87 30401130.99 0.1706 0.0247

Neptune 78523-07-15 10:34 G 30401191.80 30401191.94 30401192.09 0.0090 0.0043

Neptune 78523-10-11 12:44 G 30401279.91 30401280.03 30401280.18 0.0090 0.0053

Neptune 78524-01-07 15:08 G 30401368.03 30401368.13 30401368.26 0.0090 0.0062

Neptune 78524-04-04 17:32 G 30401456.15 30401456.23 30401456.35 0.0090 0.0071

Neptune 78524-07-01 19:56 G 30401544.28 30401544.33 30401544.42 0.0090 0.0080

Neptune 78524-09-27 22:20 G 30401632.42 30401632.43 30401632.47 0.0090 0.0089

Jupiter 78525-03-20 18:58 G 30401806.14 30401806.29 30401806.45 0.0532 0.0171

Moon 78526-11-30 00:29 G 30402425.49 30402425.52 30402425.56 0.2699 0.2577

Earth 78526-11-30 00:44 G 30402425.52 30402425.53 30402425.54 0.2706 0.2684 *

Moon 78529-05-29 20:39 G 30403337.24 30403337.36 30403337.47 0.2622 0.1094

Earth 78529-05-29 21:22 G 30403337.28 30403337.39 30403337.50 0.2626 0.1257 *

Jupiter 78530-08-08 21:22 G 30403773.37 30403773.39 30403773.41 0.0498 0.0490

Jupiter 78530-11-06 05:46 G 30403862.60 30403862.74 30403862.87 0.0496 0.0163

Uranus 78532-07-12 21:36 G 30404477.39 30404477.40 30404477.43 0.0144 0.0142

Mars 78532-10-04 18:44 G 30404561.16 30404561.28 30404561.40 0.1700 0.0306

Uranus 78532-10-09 02:10 G 30404565.52 30404565.59 30404565.68 0.0144 0.0119

Uranus 78533-01-05 06:29 G 30404653.68 30404653.77 30404653.89 0.0144 0.0096

Uranus 78533-04-03 11:17 G 30404741.85 30404741.97 30404742.10 0.0144 0.0072

Saturn 78533-05-26 06:15 G 30404794.67 30404794.76 30404794.87 0.0290 0.0235

Uranus 78533-06-30 16:05 G 30404830.03 30404830.17 30404830.30 0.0144 0.0048

Mars 78533-08-18 15:51 G 30404879.13 30404879.16 30404879.18 0.1813 0.1785

Saturn 78533-08-23 02:39 G 30404883.45 30404883.61 30404883.78 0.0290 0.0061

Uranus 78533-09-26 20:39 G 30404918.21 30404918.36 30404918.50 0.0144 0.0024

Saturn 78533-11-19 22:34 G 30404972.28 30404972.44 30404972.59 0.0290 0.0109

Earth 78533-11-22 07:27 G 30404974.73 30404974.81 30404974.89 0.2707 0.2154

Moon 78533-11-22 08:24 G 30404974.77 30404974.85 30404974.94 0.2710 0.2036 *

Uranus 78533-12-24 01:12 G 30405006.40 30405006.55 30405006.70 0.0144 0.0002

Saturn 78534-02-16 17:32 G 30405061.18 30405061.23 30405061.29 0.0289 0.0273

Uranus 78534-03-22 06:00 G 30405094.60 30405094.75 30405094.89 0.0144 0.0024

Uranus 78534-06-18 10:34 G 30405182.80 30405182.94 30405183.09 0.0143 0.0049

Uranus 78534-09-14 15:22 G 30405271.02 30405271.14 30405271.27 0.0143 0.0073

Uranus 78534-12-11 20:10 G 30405359.23 30405359.34 30405359.45 0.0143 0.0097

Uranus 78535-03-10 00:44 G 30405447.47 30405447.53 30405447.62 0.0143 0.0123

Earth 78536-05-22 12:58 G 30405887.00 30405887.04 30405887.07 0.2625 0.2505

Moon 78536-05-22 13:41 G 30405887.03 30405887.07 30405887.12 0.2624 0.2430 *

Jupiter 78537-01-06 18:44 G 30406116.12 30406116.28 30406116.44 0.0532 0.0058

Pluto 78538-12-13 21:22 G 30406822.36 30406822.39 30406822.46 0.0063 0.0060

Pluto 78539-03-11 22:34 G 30406910.35 30406910.44 30406910.55 0.0063 0.0049

Pluto 78539-06-07 23:32 G 30406998.36 30406998.48 30406998.62 0.0063 0.0039

Pluto 78539-09-04 00:15 G 30407086.38 30407086.51 30407086.67 0.0063 0.0028

Pluto 78539-12-01 01:12 G 30407174.40 30407174.55 30407174.72 0.0063 0.0018

Pluto 78540-02-27 02:10 G 30407262.43 30407262.59 30407262.76 0.0063 0.0007

Pluto 78540-05-25 03:08 G 30407350.47 30407350.63 30407350.79 0.0063 0.0004

Pluto 78540-08-21 04:05 G 30407438.51 30407438.67 30407438.83 0.0064 0.0015

Pluto 78540-11-17 04:48 G 30407526.56 30407526.70 30407526.85 0.0064 0.0026

Pluto 78541-02-13 05:32 G 30407614.61 30407614.73 30407614.87 0.0064 0.0037

Pluto 78541-05-12 06:15 G 30407702.67 30407702.76 30407702.89 0.0064 0.0048

Pluto 78541-08-08 07:27 G 30407790.75 30407790.81 30407790.88 0.0064 0.0058

Mars 78542-02-25 04:48 G 30407991.60 30407991.70 30407991.80 0.1694 0.0839

Moon 78542-06-01 17:32 G 30408088.22 30408088.23 30408088.24 0.2627 0.2609

Jupiter 78542-08-25 09:22 G 30408172.75 30408172.89 30408173.03 0.0496 0.0005

Mars 78543-01-08 14:39 G 30408308.97 30408309.11 30408309.26 0.1820 0.0723

Mars 78544-01-31 13:27 G 30408697.00 30408697.06 30408697.12 0.1718 0.1454

Earth 78546-11-25 07:27 G 30409725.68 30409725.81 30409725.94 0.2707 0.0369

Moon 78546-11-25 08:39 G 30409725.73 30409725.86 30409725.99 0.2705 0.0193 *

Saturn 78548-06-03 18:15 G 30410282.22 30410282.26 30410282.31 0.0269 0.0253

Saturn 78548-08-31 06:00 G 30410370.63 30410370.75 30410370.87 0.0269 0.0143

Jupiter 78548-10-25 18:15 G 30410426.13 30410426.26 30410426.40 0.0531 0.0282

Saturn 78548-11-27 18:15 G 30410459.11 30410459.26 30410459.40 0.0270 0.0030

Saturn 78549-02-24 06:29 G 30410547.63 30410547.77 30410547.90 0.0270 0.0087

Saturn 78549-05-23 18:58 G 30410636.20 30410636.29 30410636.38 0.0270 0.0206

Earth 78549-05-25 09:08 G 30410637.77 30410637.88 30410637.99 0.2626 0.1205

Moon 78549-05-25 09:36 G 30410637.79 30410637.90 30410638.01 0.2619 0.1107 *

Mars 78551-07-18 15:08 G 30411422.06 30411422.13 30411422.19 0.1688 0.1358

Mars 78552-05-30 13:12 G 30411738.89 30411739.05 30411739.20 0.1828 0.0385

Mars 78553-06-22 23:03 G 30412127.36 30412127.46 30412127.56 0.1711 0.0872

Jupiter 78554-06-13 12:58 G 30412482.91 30412483.04 30412483.18 0.0497 0.0156

Venus 78555-04-27 02:24 G 30412800.52 30412800.60 30412800.69 0.3724 0.2917

Earth 78559-11-28 06:58 G 30414476.68 30414476.79 30414476.91 0.2707 0.1351

Moon 78559-11-28 07:27 G 30414476.70 30414476.81 30414476.93 0.2700 0.1320 *

Jupiter 78560-08-13 17:32 G 30414736.20 30414736.23 30414736.28 0.0530 0.0512

Venus 78560-11-10 03:22 G 30414824.54 30414824.64 30414824.74 0.3722 0.2396

Jupiter 78560-11-11 19:12 G 30414826.21 30414826.30 30414826.39 0.0533 0.0433

Mars 78561-10-20 10:48 G 30415168.87 30415168.95 30415169.03 0.1835 0.1551

Venus 78562-05-24 14:10 G 30415385.04 30415385.09 30415385.14 0.3647 0.3165

Moon 78562-05-28 05:32 G 30415388.60 30415388.73 30415388.86 0.2620 0.0055

Earth 78562-05-28 05:46 G 30415388.62 30415388.74 30415388.87 0.2626 0.0146 *

Mars 78562-11-13 08:39 G 30415557.74 30415557.86 30415557.98 0.1705 0.0302

Saturn 78563-01-10 00:44 G 30415615.38 30415615.53 30415615.68 0.0291 0.0126

Saturn 78563-04-08 20:39 G 30415704.20 30415704.36 30415704.53 0.0290 0.0046

Saturn 78563-07-06 16:05 G 30415793.06 30415793.17 30415793.28 0.0290 0.0213

Jupiter 78566-04-01 16:05 G 30416793.06 30416793.17 30416793.27 0.0498 0.0326

Jupiter 78566-06-30 00:44 G 30416882.42 30416882.53 30416882.63 0.0495 0.0332

Venus 78567-12-08 07:27 G 30417408.70 30417408.81 30417408.92 0.3648 0.0345

Mars 78572-04-04 18:44 G 30418988.16 30418988.28 30418988.40 0.1700 0.0240

Jupiter 78572-08-30 18:29 G 30419136.13 30419136.27 30419136.42 0.0532 0.0202

Venus 78573-06-23 00:44 G 30419432.46 30419432.53 30419432.61 0.3649 0.2553

Uranus 78575-04-24 06:29 G 30420102.73 30420102.77 30420102.83 0.0134 0.0128

Moon 78575-05-31 01:41 G 30420139.47 30420139.57 30420139.68 0.2622 0.1511

Earth 78575-05-31 02:39 G 30420139.51 30420139.61 30420139.71 0.2626 0.1523 *

Uranus 78575-07-21 12:00 G 30420190.90 30420191.00 30420191.11 0.0134 0.0105

Uranus 78575-10-17 17:32 G 30420279.10 30420279.23 30420279.36 0.0134 0.0082

Uranus 78576-01-13 22:48 G 30420367.30 30420367.45 30420367.60 0.0135 0.0059

Uranus 78576-04-11 04:05 G 30420455.51 30420455.67 30420455.83 0.0135 0.0037

Uranus 78576-07-08 09:22 G 30420543.73 30420543.89 30420544.06 0.0135 0.0015

Uranus 78576-10-04 14:39 G 30420631.94 30420632.11 30420632.28 0.0135 0.0008

Uranus 78576-12-31 19:56 G 30420720.17 30420720.33 30420720.49 0.0135 0.0030

Uranus 78577-03-30 00:58 G 30420808.39 30420808.54 30420808.69 0.0135 0.0052

Uranus 78577-06-26 06:00 G 30420896.62 30420896.75 30420896.89 0.0135 0.0074

Uranus 78577-09-22 10:48 G 30420984.85 30420984.95 30420985.08 0.0135 0.0096

Uranus 78577-12-19 15:51 G 30421073.09 30421073.16 30421073.25 0.0135 0.0117

Saturn 78578-01-18 09:08 G 30421102.77 30421102.88 30421102.99 0.0269 0.0168

Jupiter 78578-01-18 19:56 G 30421103.30 30421103.33 30421103.35 0.0498 0.0485

Saturn 78578-04-16 21:08 G 30421191.24 30421191.38 30421191.52 0.0269 0.0055

Jupiter 78578-04-18 04:05 G 30421192.54 30421192.67 30421192.81 0.0496 0.0171

Saturn 78578-07-14 09:22 G 30421279.75 30421279.89 30421280.03 0.0270 0.0060

Saturn 78578-10-10 21:51 G 30421368.30 30421368.41 30421368.52 0.0270 0.0178

Earth 78579-11-23 13:12 G 30421776.95 30421777.05 30421777.14 0.2707 0.1814

Moon 78579-11-23 14:10 G 30421776.99 30421777.09 30421777.20 0.2708 0.1727 *

Mars 78581-08-26 04:48 G 30422418.59 30422418.70 30422418.81 0.1694 0.0774

Earth 78582-05-23 18:00 G 30422689.19 30422689.25 30422689.31 0.2625 0.2251

Moon 78582-05-23 18:58 G 30422689.22 30422689.29 30422689.35 0.2622 0.2181 *

Mars 78582-07-09 15:22 G 30422736.00 30422736.14 30422736.28 0.1820 0.0836

Mars 78583-08-01 13:27 G 30423124.01 30423124.06 30423124.12 0.1718 0.1523

Jupiter 78584-06-18 17:17 G 30423446.06 30423446.22 30423446.38 0.0531 0.0045

Jupiter 78590-02-04 07:56 G 30425502.69 30425502.83 30425502.97 0.0496 0.0017

Mars 78591-01-16 15:08 G 30425849.05 30425849.13 30425849.20 0.1689 0.1294

Mars 78591-11-29 13:41 G 30426165.91 30426166.07 30426166.23 0.1827 0.0277

Saturn 78592-05-29 00:15 G 30426347.38 30426347.51 30426347.64 0.0291 0.0176

Saturn 78592-08-25 20:24 G 30426436.18 30426436.35 30426436.52 0.0290 0.0004

Saturn 78592-11-22 15:51 G 30426525.03 30426525.16 30426525.30 0.0290 0.0165

Earth 78592-11-25 12:58 G 30426527.91 30426528.04 30426528.18 0.2707 0.0092

Moon 78592-11-25 14:10 G 30426527.96 30426528.09 30426528.22 0.2704 0.0052 *

Mars 78592-12-21 23:03 G 30426554.36 30426554.46 30426554.56 0.1711 0.0936

Earth 78595-05-26 14:24 G 30427439.98 30427440.10 30427440.22 0.2626 0.0943

Moon 78595-05-26 14:53 G 30427440.00 30427440.12 30427440.23 0.2619 0.0931 *

Jupiter 78596-04-06 16:34 G 30427756.05 30427756.19 30427756.33 0.0531 0.0276

Mars 78601-04-21 11:17 G 30429595.88 30429595.97 30429596.07 0.1835 0.1445

Jupiter 78601-11-24 11:46 G 30429812.85 30429812.99 30429813.12 0.0497 0.0146

Mars 78602-05-15 08:53 G 30429984.75 30429984.87 30429984.98 0.1706 0.0375

Neptune 78602-05-19 11:46 G 30429988.98 30429988.99 30429989.02 0.0088 0.0087

Neptune 78602-08-15 13:41 G 30430077.01 30430077.07 30430077.14 0.0088 0.0079

Neptune 78602-11-11 15:08 G 30430165.06 30430165.13 30430165.23 0.0088 0.0072

Neptune 78603-02-07 17:03 G 30430253.12 30430253.21 30430253.32 0.0088 0.0064

Neptune 78603-05-06 18:58 G 30430341.18 30430341.29 30430341.41 0.0088 0.0056

Neptune 78603-08-02 20:24 G 30430429.24 30430429.35 30430429.49 0.0088 0.0049

Neptune 78603-10-29 22:20 G 30430517.31 30430517.43 30430517.57 0.0088 0.0041

Neptune 78604-01-26 00:15 G 30430605.38 30430605.51 30430605.65 0.0088 0.0033

Neptune 78604-04-23 02:10 G 30430693.44 30430693.59 30430693.73 0.0088 0.0025

Neptune 78604-07-20 03:51 G 30430781.52 30430781.66 30430781.81 0.0088 0.0017

Neptune 78604-10-16 05:32 G 30430869.59 30430869.73 30430869.89 0.0088 0.0010

Neptune 78605-01-12 07:27 G 30430957.66 30430957.81 30430957.96 0.0088 0.0002

Neptune 78605-04-10 09:22 G 30431045.74 30431045.89 30431046.04 0.0088 0.0007

Neptune 78605-07-07 11:03 G 30431133.81 30431133.96 30431134.11 0.0088 0.0014

Neptune 78605-10-03 12:44 G 30431221.89 30431222.03 30431222.18 0.0088 0.0023

Earth 78605-11-29 12:44 G 30431278.92 30431279.03 30431279.13 0.2707 0.1667

Moon 78605-11-29 12:58 G 30431278.94 30431279.04 30431279.14 0.2700 0.1747 *

Neptune 78605-12-30 14:39 G 30431309.97 30431310.11 30431310.26 0.0088 0.0030

Neptune 78606-03-28 16:34 G 30431398.06 30431398.19 30431398.33 0.0088 0.0038

Neptune 78606-06-24 18:29 G 30431486.14 30431486.27 30431486.40 0.0088 0.0046

Neptune 78606-09-20 19:56 G 30431574.23 30431574.33 30431574.47 0.0088 0.0055

Neptune 78606-12-17 21:51 G 30431662.32 30431662.41 30431662.53 0.0088 0.0063

Neptune 78607-03-15 23:46 G 30431750.41 30431750.49 30431750.59 0.0088 0.0071

Saturn 78607-06-08 09:51 G 30431834.83 30431834.91 30431835.01 0.0269 0.0211

Neptune 78607-06-12 01:41 G 30431838.52 30431838.57 30431838.65 0.0088 0.0079

Saturn 78607-09-04 21:51 G 30431923.28 30431923.41 30431923.55 0.0269 0.0100

Neptune 78607-09-08 03:36 G 30431926.64 30431926.65 30431926.68 0.0088 0.0087

Saturn 78607-12-02 10:05 G 30432011.78 30432011.92 30432012.06 0.0270 0.0015

Jupiter 78608-01-25 16:05 G 30432066.12 30432066.17 30432066.22 0.0530 0.0503

Saturn 78608-02-28 22:20 G 30432100.31 30432100.43 30432100.56 0.0270 0.0132

Jupiter 78608-04-24 17:46 G 30432156.15 30432156.24 30432156.33 0.0533 0.0444

Saturn 78608-05-27 10:48 G 30432188.91 30432188.95 30432189.01 0.0270 0.0252

Moon 78608-05-29 10:34 G 30432190.82 30432190.94 30432191.07 0.2620 0.0406

Earth 78608-05-29 11:03 G 30432190.84 30432190.96 30432191.08 0.2626 0.0408 *

Mars 78611-10-05 18:44 G 30433415.16 30433415.28 30433415.40 0.1700 0.0189

Venus 78611-12-03 02:24 G 30433473.47 30433473.60 30433473.73 0.3723 0.1005

Jupiter 78613-09-12 15:22 G 30434123.03 30434123.14 30434123.25 0.0497 0.0304

Jupiter 78613-12-11 00:00 G 30434212.40 30434212.50 30434212.60 0.0495 0.0354

Uranus 78616-08-03 04:48 G 30435178.67 30435178.70 30435178.76 0.0144 0.0135

Uranus 78616-10-30 09:36 G 30435266.81 30435266.90 30435266.99 0.0144 0.0111

Uranus 78617-01-26 14:10 G 30435354.98 30435355.09 30435355.21 0.0144 0.0088

Uranus 78617-04-24 18:44 G 30435443.15 30435443.28 30435443.41 0.0144 0.0064

Uranus 78617-07-21 23:17 G 30435531.33 30435531.47 30435531.61 0.0144 0.0040

Uranus 78617-10-18 03:51 G 30435619.52 30435619.66 30435619.81 0.0144 0.0017

Uranus 78618-01-14 08:39 G 30435707.71 30435707.86 30435708.01 0.0144 0.0008

Uranus 78618-04-12 13:12 G 30435795.91 30435796.05 30435796.20 0.0144 0.0032

Uranus 78618-07-09 18:00 G 30435884.11 30435884.25 30435884.39 0.0144 0.0056

Uranus 78618-10-05 22:34 G 30435972.33 30435972.44 30435972.57 0.0144 0.0081

Venus 78618-12-30 12:00 G 30436057.91 30436058.00 30436058.09 0.3648 0.2113

Uranus 78619-01-02 03:22 G 30436060.55 30436060.64 30436060.75 0.0143 0.0105

Uranus 78619-03-31 08:24 G 30436148.79 30436148.85 30436148.91 0.0143 0.0130

Jupiter 78620-02-11 17:32 G 30436466.09 30436466.23 30436466.38 0.0532 0.0221

Mars 78621-02-25 04:48 G 30436845.59 30436845.70 30436845.80 0.1694 0.0715

Moon 78621-06-01 07:12 G 30436941.70 30436941.80 30436941.89 0.2623 0.1636

Earth 78621-06-01 07:56 G 30436941.74 30436941.83 30436941.92 0.2626 0.1804 *

Saturn 78621-10-16 21:36 G 30437079.31 30437079.40 30437079.49 0.0291 0.0245

Mars 78622-01-08 16:05 G 30437163.04 30437163.17 30437163.31 0.1820 0.0957

Saturn 78622-01-13 18:00 G 30437168.09 30437168.25 30437168.42 0.0291 0.0070

Saturn 78622-04-12 13:56 G 30437256.92 30437257.08 30437257.24 0.0290 0.0101

Saturn 78622-07-10 09:08 G 30437345.82 30437345.88 30437345.95 0.0290 0.0266

Mars 78623-01-31 13:27 G 30437551.01 30437551.06 30437551.10 0.1717 0.1578

Venus 78624-07-15 05:17 G 30438081.61 30438081.72 30438081.83 0.3649 0.0724

Jupiter 78625-07-01 18:29 G 30438433.23 30438433.27 30438433.31 0.0498 0.0475

Jupiter 78625-09-29 02:53 G 30438522.49 30438522.62 30438522.75 0.0496 0.0179

Earth 78625-11-24 18:44 G 30438579.17 30438579.28 30438579.39 0.2707 0.1479

Moon 78625-11-24 19:56 G 30438579.22 30438579.33 30438579.45 0.2707 0.1282 *

Earth 78628-05-24 23:17 G 30439491.39 30439491.47 30439491.55 0.2625 0.1999

Moon 78628-05-25 00:00 G 30439491.41 30439491.50 30439491.58 0.2621 0.1878 *

Pluto 78629-02-13 03:22 G 30439755.61 30439755.64 30439755.68 0.0081 0.0079

Pluto 78629-05-12 04:48 G 30439843.61 30439843.70 30439843.82 0.0081 0.0058

Pluto 78629-08-08 06:29 G 30439931.64 30439931.77 30439931.91 0.0081 0.0037

Pluto 78629-11-04 08:10 G 30440019.69 30440019.84 30440019.99 0.0081 0.0016

Venus 78630-01-28 22:48 G 30440105.45 30440105.45 30440105.45 0.3650 0.3649

Pluto 78630-01-31 09:51 G 30440107.76 30440107.91 30440108.06 0.0081 0.0005

Pluto 78630-04-29 11:17 G 30440195.83 30440195.97 30440196.12 0.0081 0.0026

Mars 78630-07-18 15:08 G 30440276.05 30440276.13 30440276.21 0.1689 0.1229

Pluto 78630-07-26 12:44 G 30440283.91 30440284.03 30440284.16 0.0080 0.0046

Pluto 78630-10-22 14:10 G 30440372.02 30440372.09 30440372.19 0.0080 0.0067

Mars 78631-05-31 14:24 G 30440592.94 30440593.10 30440593.26 0.1827 0.0164

Jupiter 78631-11-30 16:48 G 30440776.04 30440776.20 30440776.36 0.0531 0.0013

Mars 78632-06-22 23:03 G 30440981.36 30440981.46 30440981.56 0.1712 0.1001

Saturn 78636-10-25 13:12 G 30442566.99 30442567.05 30442567.12 0.0269 0.0235

Saturn 78637-01-22 00:58 G 30442655.42 30442655.54 30442655.67 0.0269 0.0124

Saturn 78637-04-20 13:12 G 30442743.91 30442744.05 30442744.19 0.0269 0.0011

Saturn 78637-07-18 01:27 G 30442832.43 30442832.56 30442832.69 0.0270 0.0106

Jupiter 78637-07-18 06:29 G 30442832.62 30442832.77 30442832.91 0.0497 0.0023 *

Saturn 78637-10-14 13:56 G 30442921.01 30442921.08 30442921.16 0.0270 0.0225

Earth 78638-11-27 18:44 G 30443330.15 30443330.28 30443330.41 0.2707 0.0287

Moon 78638-11-27 19:41 G 30443330.18 30443330.32 30443330.45 0.2703 0.0394 *

Mars 78640-10-20 12:15 G 30444022.90 30444023.01 30444023.12 0.1835 0.1323

Earth 78641-05-27 19:41 G 30444242.20 30444242.32 30444242.44 0.2625 0.0680

Moon 78641-05-27 19:56 G 30444242.21 30444242.33 30444242.45 0.2619 0.0643 *

Mars 78641-11-13 08:39 G 30444411.75 30444411.86 30444411.98 0.1705 0.0437

Jupiter 78643-09-18 15:08 G 30445085.99 30445086.13 30445086.27 0.0530 0.0263

Jupiter 78649-05-06 10:20 G 30447142.79 30447142.93 30447143.06 0.0497 0.0140

Saturn 78651-03-05 21:51 G 30447811.40 30447811.41 30447811.42 0.0291 0.0290

Mars 78651-04-05 18:44 G 30447842.16 30447842.28 30447842.40 0.1700 0.0121

Saturn 78651-06-02 18:15 G 30447900.11 30447900.26 30447900.42 0.0291 0.0114

Saturn 78651-08-30 14:10 G 30447988.93 30447989.09 30447989.26 0.0290 0.0058

Saturn 78651-11-27 09:36 G 30448077.80 30448077.90 30448078.01 0.0290 0.0224

Earth 78651-11-30 18:15 G 30448081.17 30448081.26 30448081.34 0.2707 0.1984

Moon 78651-11-30 18:29 G 30448081.18 30448081.27 30448081.36 0.2699 0.1958 *

Moon 78654-05-30 15:51 G 30448993.03 30448993.16 30448993.28 0.2620 0.0583

Earth 78654-05-30 16:20 G 30448993.06 30448993.18 30448993.30 0.2626 0.0681 *

Jupiter 78655-07-07 14:10 G 30449396.04 30449396.09 30449396.14 0.0530 0.0499

Jupiter 78655-10-05 15:51 G 30449486.07 30449486.16 30449486.24 0.0533 0.0446

Uranus 78659-05-15 13:27 G 30450804.00 30450804.06 30450804.13 0.0134 0.0121

Uranus 78659-08-11 18:58 G 30450892.18 30450892.29 30450892.40 0.0134 0.0099

Uranus 78659-11-08 00:00 G 30450980.38 30450980.50 30450980.65 0.0134 0.0077

Uranus 78660-02-04 05:32 G 30451068.58 30451068.73 30451068.89 0.0134 0.0054

Uranus 78660-05-02 11:03 G 30451156.79 30451156.96 30451157.12 0.0134 0.0031

Uranus 78660-07-29 16:20 G 30451245.01 30451245.18 30451245.34 0.0134 0.0009

Mars 78660-08-26 04:48 G 30451272.59 30451272.70 30451272.81 0.1694 0.0651

Uranus 78660-10-25 21:22 G 30451333.23 30451333.39 30451333.56 0.0135 0.0014

Uranus 78661-01-22 02:39 G 30451421.45 30451421.61 30451421.77 0.0135 0.0036

Jupiter 78661-02-22 13:56 G 30451452.97 30451453.08 30451453.20 0.0497 0.0297

Uranus 78661-04-20 07:41 G 30451509.68 30451509.82 30451509.97 0.0135 0.0058

Jupiter 78661-05-22 22:34 G 30451542.34 30451542.44 30451542.54 0.0495 0.0361

Mars 78661-07-09 16:34 G 30451590.06 30451590.19 30451590.32 0.1820 0.1044

Uranus 78661-07-17 12:44 G 30451597.90 30451598.03 30451598.17 0.0135 0.0079

Uranus 78661-10-13 17:46 G 30451686.14 30451686.24 30451686.35 0.0135 0.0101

Uranus 78662-01-09 22:34 G 30451774.39 30451774.44 30451774.52 0.0135 0.0123

Mars 78662-08-01 13:27 G 30451978.03 30451978.06 30451978.09 0.1717 0.1648

Saturn 78666-06-11 02:24 G 30453387.49 30453387.60 30453387.71 0.0269 0.0164

Saturn 78666-09-07 14:10 G 30453475.96 30453476.09 30453476.24 0.0269 0.0053

Saturn 78666-12-05 02:24 G 30453564.46 30453564.60 30453564.74 0.0270 0.0064

Saturn 78667-03-03 14:53 G 30453653.01 30453653.12 30453653.23 0.0270 0.0181

Moon 78667-06-02 12:15 G 30453743.93 30453744.01 30453744.09 0.2625 0.2039

Earth 78667-06-02 13:12 G 30453743.97 30453744.05 30453744.13 0.2626 0.2077 *

Jupiter 78667-07-24 15:36 G 30453796.01 30453796.15 30453796.30 0.0532 0.0225

Venus 78668-07-09 02:24 G 30454146.47 30454146.60 30454146.73 0.3723 0.0865

Mars 78670-01-16 14:53 G 30454703.04 30454703.12 30454703.20 0.1688 0.1172

Mars 78670-11-29 15:08 G 30455019.97 30455020.13 30455020.29 0.1828 0.0048

Earth 78671-11-26 00:29 G 30455381.40 30455381.52 30455381.64 0.2707 0.1136

Moon 78671-11-26 01:41 G 30455381.45 30455381.57 30455381.69 0.2707 0.1074 *

Mars 78671-12-22 23:03 G 30455408.36 30455408.46 30455408.55 0.1711 0.1061

Jupiter 78672-12-11 17:46 G 30455763.19 30455763.24 30455763.30 0.0498 0.0454

Jupiter 78673-03-11 02:10 G 30455852.46 30455852.59 30455852.72 0.0495 0.0200

Earth 78674-05-26 04:20 G 30456293.59 30456293.68 30456293.77 0.2625 0.1746

Moon 78674-05-26 05:03 G 30456293.62 30456293.71 30456293.81 0.2620 0.1720 *

Venus 78675-08-06 09:51 G 30456730.81 30456730.91 30456731.02 0.3648 0.1065

Jupiter 78679-05-12 15:22 G 30458105.98 30458106.14 30458106.31 0.0531 0.0015

Mars 78679-06-09 01:27 G 30458133.54 30458133.56 30458133.57 0.1683 0.1669

Mars 78680-04-20 12:58 G 30458449.92 30458450.04 30458450.16 0.1834 0.1203

Saturn 78680-10-19 15:51 G 30458632.03 30458632.16 30458632.29 0.0291 0.0182

Saturn 78681-01-16 12:15 G 30458720.84 30458721.01 30458721.17 0.0291 0.0010

Venus 78681-02-19 03:08 G 30458754.53 30458754.63 30458754.73 0.3649 0.1783

Saturn 78681-04-15 07:41 G 30458809.69 30458809.82 30458809.96 0.0290 0.0162

Mars 78681-05-14 08:39 G 30458838.74 30458838.86 30458838.98 0.1705 0.0492

Neptune 78684-11-24 21:51 G 30460129.36 30460129.41 30460129.48 0.0090 0.0083

Earth 78684-11-28 00:15 G 30460132.38 30460132.51 30460132.64 0.2707 0.0614

Moon 78684-11-28 00:58 G 30460132.41 30460132.54 30460132.67 0.2702 0.0726 *

Jupiter 78684-12-28 04:48 G 30460162.56 30460162.70 30460162.84 0.0496 0.0026

Neptune 78685-02-21 00:15 G 30460217.43 30460217.51 30460217.62 0.0090 0.0074

Neptune 78685-05-20 02:53 G 30460305.52 30460305.62 30460305.75 0.0090 0.0064

Neptune 78685-08-16 05:46 G 30460393.61 30460393.74 30460393.88 0.0090 0.0054

Neptune 78685-11-12 08:10 G 30460481.71 30460481.84 30460482.00 0.0090 0.0045

Neptune 78686-02-08 11:03 G 30460569.81 30460569.96 30460570.11 0.0090 0.0035

Neptune 78686-05-07 13:27 G 30460657.91 30460658.06 30460658.23 0.0090 0.0026

Neptune 78686-08-03 16:05 G 30460746.01 30460746.17 30460746.34 0.0090 0.0016

Neptune 78686-10-30 18:44 G 30460834.11 30460834.28 30460834.45 0.0090 0.0007

Neptune 78687-01-26 21:08 G 30460922.22 30460922.38 30460922.55 0.0090 0.0003

Neptune 78687-04-24 23:46 G 30461010.32 30461010.49 30461010.65 0.0090 0.0012

Moon 78687-05-29 00:58 G 30461044.41 30461044.54 30461044.66 0.2619 0.0407

Earth 78687-05-29 00:44 G 30461044.41 30461044.53 30461044.66 0.2626 0.0431 *

Neptune 78687-07-22 02:10 G 30461098.43 30461098.59 30461098.75 0.0090 0.0021

Neptune 78687-10-18 04:34 G 30461186.54 30461186.69 30461186.85 0.0090 0.0031

Neptune 78688-01-14 06:58 G 30461274.65 30461274.79 30461274.95 0.0090 0.0040

Neptune 78688-04-11 09:36 G 30461362.77 30461362.90 30461363.04 0.0090 0.0049

Neptune 78688-07-08 12:00 G 30461450.88 30461451.00 30461451.13 0.0090 0.0058

Neptune 78688-10-04 14:24 G 30461539.00 30461539.10 30461539.22 0.0090 0.0067

Neptune 78688-12-31 16:48 G 30461627.13 30461627.20 30461627.30 0.0090 0.0076

Neptune 78689-03-29 19:12 G 30461715.26 30461715.30 30461715.36 0.0090 0.0085

Mars 78690-10-04 18:44 G 30462269.16 30462269.28 30462269.40 0.1700 0.0063

Jupiter 78691-02-28 14:39 G 30462415.96 30462416.11 30462416.25 0.0530 0.0234

Saturn 78695-10-29 05:32 G 30464119.63 30464119.73 30464119.83 0.0269 0.0187

Saturn 78696-01-25 17:32 G 30464208.09 30464208.23 30464208.37 0.0269 0.0076

Saturn 78696-04-23 05:32 G 30464296.59 30464296.73 30464296.88 0.0269 0.0040

Saturn 78696-07-20 18:00 G 30464385.13 30464385.25 30464385.37 0.0270 0.0156

Jupiter 78696-10-16 08:24 G 30464472.72 30464472.85 30464472.99 0.0497 0.0139

Earth 78697-11-30 23:46 G 30464883.42 30464883.49 30464883.55 0.2707 0.2298

Moon 78697-11-30 23:46 G 30464883.43 30464883.49 30464883.56 0.2700 0.2326 *

Mars 78700-02-25 04:48 G 30465699.58 30465699.70 30465699.81 0.1694 0.0588

Moon 78700-05-31 20:53 G 30465795.26 30465795.37 30465795.49 0.2620 0.0914

Earth 78700-05-31 21:36 G 30465795.28 30465795.40 30465795.52 0.2626 0.0951 *

Uranus 78700-08-24 12:15 G 30465879.95 30465880.01 30465880.07 0.0144 0.0128

Uranus 78700-11-20 16:48 G 30465968.10 30465968.20 30465968.30 0.0144 0.0105

Mars 78701-01-08 17:17 G 30466017.10 30466017.22 30466017.34 0.1820 0.1160

Uranus 78701-02-16 21:08 G 30466056.27 30466056.38 30466056.51 0.0144 0.0082

Uranus 78701-05-16 01:41 G 30466144.44 30466144.57 30466144.71 0.0144 0.0058

Uranus 78701-08-12 06:15 G 30466232.62 30466232.76 30466232.91 0.0144 0.0035

Uranus 78701-11-08 11:03 G 30466320.81 30466320.96 30466321.11 0.0144 0.0010

Mars 78702-01-31 13:27 G 30466405.06 30466405.06 30466405.07 0.1717 0.1711

Uranus 78702-02-04 15:36 G 30466409.01 30466409.15 30466409.30 0.0144 0.0014

Uranus 78702-05-03 20:24 G 30466497.21 30466497.35 30466497.49 0.0144 0.0038

Uranus 78702-07-31 00:58 G 30466585.41 30466585.54 30466585.68 0.0144 0.0063

Uranus 78702-10-27 05:46 G 30466673.63 30466673.74 30466673.86 0.0144 0.0087

Jupiter 78702-12-18 12:29 G 30466725.96 30466726.02 30466726.08 0.0529 0.0489

Uranus 78703-01-23 10:34 G 30466761.85 30466761.94 30466762.04 0.0144 0.0112

Jupiter 78703-03-18 14:10 G 30466816.01 30466816.09 30466816.17 0.0532 0.0455

Uranus 78703-04-21 15:22 G 30466850.10 30466850.14 30466850.19 0.0144 0.0136

Earth 78704-11-24 06:00 G 30467432.72 30467432.75 30467432.78 0.2707 0.2611

Moon 78704-11-24 07:12 G 30467432.76 30467432.80 30467432.83 0.2710 0.2578 *

Jupiter 78708-08-05 12:15 G 30468782.90 30468783.01 30468783.12 0.0498 0.0295

Jupiter 78708-11-02 20:53 G 30468872.28 30468872.37 30468872.47 0.0495 0.0364

Mars 78709-07-18 14:53 G 30469130.03 30469130.12 30469130.21 0.1688 0.1105

Saturn 78710-03-09 16:34 G 30469364.09 30469364.19 30469364.30 0.0291 0.0222

Mars 78710-05-31 15:36 G 30469446.99 30469447.15 30469447.31 0.1827 0.0058

Saturn 78710-06-06 12:58 G 30469452.88 30469453.04 30469453.21 0.0291 0.0048

Saturn 78710-09-03 08:53 G 30469541.72 30469541.87 30469542.02 0.0290 0.0122

Saturn 78710-12-01 03:51 G 30469630.65 30469630.66 30469630.69 0.0290 0.0287

Mars 78711-06-23 23:03 G 30469835.37 30469835.46 30469835.55 0.1711 0.1127

Moon 78713-06-03 17:32 G 30470546.16 30470546.23 30470546.30 0.2626 0.2203

Earth 78713-06-03 18:29 G 30470546.22 30470546.27 30470546.32 0.2626 0.2358 *

Jupiter 78715-01-04 13:27 G 30471125.92 30471126.06 30471126.21 0.0532 0.0224

Earth 78717-11-27 06:15 G 30472183.63 30472183.76 30472183.89 0.2707 0.0803

Moon 78717-11-27 07:27 G 30472183.68 30472183.81 30472183.94 0.2707 0.0602 *

Mars 78718-12-09 01:12 G 30472560.52 30472560.55 30472560.58 0.1683 0.1610

Venus 78719-08-01 01:12 G 30472795.45 30472795.55 30472795.64 0.3724 0.2649

Mars 78719-10-21 13:12 G 30472876.93 30472877.05 30472877.18 0.1835 0.1103

Jupiter 78720-05-24 16:05 G 30473093.12 30473093.17 30473093.23 0.0498 0.0451

Earth 78720-05-27 09:36 G 30473095.80 30473095.90 30473096.00 0.2625 0.1491

Moon 78720-05-27 10:05 G 30473095.82 30473095.92 30473096.03 0.2621 0.1360 *

Jupiter 78720-08-22 00:29 G 30473182.39 30473182.52 30473182.65 0.0496 0.0203

Mars 78720-11-13 08:39 G 30473265.75 30473265.86 30473265.98 0.1705 0.0559

Venus 78725-02-14 02:10 G 30474819.50 30474819.59 30474819.68 0.3723 0.2705

Saturn 78725-03-18 07:12 G 30474851.73 30474851.80 30474851.88 0.0269 0.0224

Saturn 78725-06-14 18:58 G 30474940.17 30474940.29 30474940.42 0.0269 0.0113

Saturn 78725-09-11 07:12 G 30475028.65 30475028.80 30475028.94 0.0269 0.0008

Saturn 78725-12-08 19:27 G 30475117.18 30475117.31 30475117.44 0.0270 0.0117

Saturn 78726-03-07 07:41 G 30475205.76 30475205.82 30475205.90 0.0270 0.0236

Venus 78726-08-28 14:39 G 30475380.04 30475380.11 30475380.17 0.3647 0.2816

Jupiter 78726-10-23 13:12 G 30475435.89 30475436.05 30475436.21 0.0531 0.0002

Mars 78730-04-05 18:29 G 30476696.15 30476696.27 30476696.39 0.1699 0.0061

Earth 78730-11-30 06:00 G 30476934.62 30476934.75 30476934.87 0.2707 0.0945

Moon 78730-11-30 06:29 G 30476934.65 30476934.77 30476934.90 0.2701 0.0955 *

Venus 78732-03-13 07:41 G 30477403.71 30477403.82 30477403.93 0.3648 0.0044

Jupiter 78732-06-10 04:05 G 30477492.53 30477492.67 30477492.81 0.0496 0.0042

Moon 78733-05-30 06:00 G 30477846.62 30477846.75 30477846.87 0.2619 0.0222

Earth 78733-05-30 06:00 G 30477846.63 30477846.75 30477846.88 0.2626 0.0170 *

Venus 78737-09-27 00:58 G 30479427.48 30479427.54 30479427.61 0.3649 0.2878

Jupiter 78738-08-11 12:58 G 30479745.89 30479746.04 30479746.19 0.0530 0.0225

Saturn 78739-07-27 14:10 G 30480096.08 30480096.09 30480096.11 0.0291 0.0289

Mars 78739-08-27 04:34 G 30480126.58 30480126.69 30480126.81 0.1694 0.0528

Saturn 78739-10-24 10:48 G 30480184.80 30480184.95 30480185.11 0.0291 0.0113

Saturn 78740-01-21 06:58 G 30480273.62 30480273.79 30480273.95 0.0290 0.0059

Saturn 78740-04-19 02:24 G 30480362.50 30480362.60 30480362.70 0.0290 0.0226

Mars 78740-07-09 18:00 G 30480444.14 30480444.25 30480444.36 0.1820 0.1270

Uranus 78743-06-05 20:24 G 30481505.28 30481505.35 30481505.45 0.0134 0.0114

Uranus 78743-09-02 01:56 G 30481593.47 30481593.58 30481593.71 0.0134 0.0091

Uranus 78743-11-29 07:27 G 30481681.67 30481681.81 30481681.96 0.0134 0.0069

Moon 78743-12-03 05:17 G 30481685.68 30481685.72 30481685.75 0.2700 0.2607

Earth 78743-12-03 05:17 G 30481685.69 30481685.72 30481685.75 0.2707 0.2617 *

Uranus 78744-02-25 12:44 G 30481769.88 30481770.03 30481770.19 0.0134 0.0046

Jupiter 78744-03-29 06:58 G 30481802.65 30481802.79 30481802.92 0.0497 0.0136

Uranus 78744-05-23 18:15 G 30481858.09 30481858.26 30481858.42 0.0134 0.0024

Uranus 78744-08-19 23:17 G 30481946.31 30481946.47 30481946.64 0.0134 0.0004

Uranus 78744-11-16 04:34 G 30482034.53 30482034.69 30482034.86 0.0134 0.0021

Uranus 78745-02-12 09:51 G 30482122.75 30482122.91 30482123.07 0.0134 0.0043

Uranus 78745-05-11 14:53 G 30482210.98 30482211.12 30482211.27 0.0135 0.0065

Uranus 78745-08-07 19:56 G 30482299.21 30482299.33 30482299.46 0.0135 0.0086

Uranus 78745-11-04 00:58 G 30482387.45 30482387.54 30482387.64 0.0135 0.0108

Uranus 78746-01-31 05:46 G 30482475.71 30482475.74 30482475.80 0.0135 0.0130

Moon 78746-06-02 02:10 G 30482597.48 30482597.59 30482597.70 0.2621 0.1146

Earth 78746-06-02 02:53 G 30482597.51 30482597.62 30482597.73 0.2626 0.1220 *

Mars 78749-01-16 14:53 G 30483557.03 30483557.12 30483557.21 0.1688 0.1043

Mars 78749-11-29 16:20 G 30483874.02 30483874.18 30483874.34 0.1827 0.0169

Jupiter 78750-05-30 11:46 G 30484055.92 30484055.99 30484056.07 0.0529 0.0463

Jupiter 78750-08-28 13:27 G 30484145.99 30484146.06 30484146.13 0.0532 0.0480

Earth 78750-11-25 11:46 G 30484234.92 30484234.99 30484235.06 0.2707 0.2268

Moon 78750-11-25 12:58 G 30484234.95 30484235.04 30484235.12 0.2710 0.2063 *

Mars 78750-12-22 23:03 G 30484262.37 30484262.46 30484262.54 0.1711 0.1189

Earth 78753-05-25 18:29 G 30485147.24 30485147.27 30485147.30 0.2625 0.2533

Moon 78753-05-25 19:27 G 30485147.26 30485147.31 30485147.36 0.2623 0.2371 *

Saturn 78754-08-05 10:34 G 30485583.88 30485583.94 30485583.99 0.0269 0.0247

Saturn 78754-11-01 22:05 G 30485672.31 30485672.42 30485672.55 0.0269 0.0137

Saturn 78755-01-29 10:20 G 30485760.79 30485760.93 30485761.07 0.0269 0.0024

Saturn 78755-04-27 22:34 G 30485849.30 30485849.44 30485849.57 0.0269 0.0092

Saturn 78755-07-25 10:48 G 30485937.87 30485937.95 30485938.05 0.0270 0.0211

Jupiter 78756-01-16 10:20 G 30486112.82 30486112.93 30486113.04 0.0498 0.0298

Jupiter 78756-04-14 18:58 G 30486202.19 30486202.29 30486202.39 0.0495 0.0362

Mars 78758-06-09 01:12 G 30486987.51 30486987.55 30486987.60 0.1683 0.1545

Mars 78759-04-21 14:10 G 30487303.96 30487304.09 30487304.23 0.1835 0.0975

Moon 78759-06-04 22:48 G 30487348.42 30487348.45 30487348.47 0.2627 0.2558

Mars 78760-05-14 08:39 G 30487692.75 30487692.86 30487692.97 0.1705 0.0625

Jupiter 78762-06-16 11:46 G 30488455.85 30488455.99 30488456.14 0.0532 0.0230

Earth 78763-11-28 11:46 G 30488985.86 30488985.99 30488986.12 0.2707 0.0470

Moon 78763-11-28 12:58 G 30488985.90 30488986.04 30488986.17 0.2705 0.0447 *

Earth 78766-05-28 14:39 G 30489898.01 30489898.11 30489898.22 0.2625 0.1235

Moon 78766-05-28 15:22 G 30489898.03 30489898.14 30489898.24 0.2620 0.1246 *

Neptune 78767-02-14 11:03 G 30490159.92 30490159.96 30490160.02 0.0088 0.0083

Neptune 78767-05-13 12:44 G 30490247.97 30490248.03 30490248.12 0.0088 0.0075

Neptune 78767-08-09 14:53 G 30490336.02 30490336.12 30490336.21 0.0088 0.0067

Jupiter 78767-11-04 14:10 G 30490423.04 30490423.09 30490423.15 0.0499 0.0454

Neptune 78767-11-05 16:20 G 30490424.08 30490424.18 30490424.30 0.0088 0.0060

Neptune 78768-02-01 18:15 G 30490512.14 30490512.26 30490512.38 0.0088 0.0052

Jupiter 78768-02-01 22:34 G 30490512.31 30490512.44 30490512.57 0.0496 0.0203 *

Neptune 78768-04-29 19:56 G 30490600.21 30490600.33 30490600.46 0.0088 0.0044

Neptune 78768-07-26 21:36 G 30490688.27 30490688.40 30490688.54 0.0088 0.0037

Neptune 78768-10-22 23:32 G 30490776.34 30490776.48 30490776.62 0.0088 0.0029

Neptune 78769-01-19 01:12 G 30490864.41 30490864.55 30490864.70 0.0088 0.0021

Saturn 78769-03-12 12:15 G 30490916.87 30490917.01 30490917.16 0.0291 0.0147

Neptune 78769-04-17 03:08 G 30490952.48 30490952.63 30490952.78 0.0088 0.0013

Saturn 78769-06-09 08:24 G 30491005.69 30491005.85 30491006.02 0.0291 0.0027

Neptune 78769-07-14 04:48 G 30491040.55 30491040.70 30491040.85 0.0088 0.0006

Saturn 78769-09-06 04:05 G 30491094.55 30491094.67 30491094.79 0.0290 0.0194

Mars 78769-10-04 18:29 G 30491123.15 30491123.27 30491123.39 0.1700 0.0092

Neptune 78769-10-10 06:44 G 30491128.63 30491128.78 30491128.93 0.0088 0.0003

Neptune 78770-01-06 08:24 G 30491216.71 30491216.85 30491217.00 0.0088 0.0011

Neptune 78770-04-04 10:20 G 30491304.78 30491304.93 30491305.08 0.0088 0.0019

Neptune 78770-07-01 12:00 G 30491392.86 30491393.00 30491393.15 0.0088 0.0027

Neptune 78770-09-27 13:41 G 30491480.94 30491481.07 30491481.22 0.0088 0.0035

Neptune 78770-12-24 15:36 G 30491569.03 30491569.15 30491569.29 0.0088 0.0043

Neptune 78771-03-22 17:17 G 30491657.11 30491657.22 30491657.36 0.0088 0.0051

Neptune 78771-06-18 19:12 G 30491745.20 30491745.30 30491745.42 0.0088 0.0059

Neptune 78771-09-14 21:08 G 30491833.29 30491833.38 30491833.49 0.0088 0.0067

Neptune 78771-12-11 23:03 G 30491921.39 30491921.46 30491921.55 0.0088 0.0075

Neptune 78772-03-09 00:58 G 30492009.50 30492009.54 30492009.60 0.0088 0.0083

Jupiter 78774-04-04 11:03 G 30492765.79 30492765.96 30492766.12 0.0531 0.0012

Venus 78776-03-07 01:12 G 30493468.42 30493468.55 30493468.68 0.3724 0.0745

Earth 78776-11-30 11:32 G 30493736.86 30493736.98 30493737.10 0.2707 0.1263

Moon 78776-11-30 12:00 G 30493736.89 30493737.00 30493737.12 0.2701 0.1398 *

Mars 78779-02-25 04:34 G 30494553.58 30494553.69 30494553.81 0.1694 0.0467

Moon 78779-05-31 11:03 G 30494648.83 30494648.96 30494649.09 0.2619 0.0143

Earth 78779-05-31 11:17 G 30494648.84 30494648.97 30494649.09 0.2626 0.0107 *

Jupiter 78779-11-21 02:10 G 30494822.45 30494822.59 30494822.74 0.0496 0.0044

Mars 78780-01-08 18:15 G 30494871.16 30494871.26 30494871.37 0.1820 0.1362

Venus 78783-04-04 12:15 G 30496052.92 30496053.01 30496053.11 0.3647 0.1781

Saturn 78784-03-21 00:15 G 30496404.41 30496404.51 30496404.62 0.0269 0.0170

Saturn 78784-06-17 12:15 G 30496492.87 30496493.01 30496493.15 0.0269 0.0058

Uranus 78784-09-13 18:58 G 30496581.23 30496581.29 30496581.37 0.0144 0.0123

Saturn 78784-09-14 00:15 G 30496581.38 30496581.51 30496581.66 0.0269 0.0058

Uranus 78784-12-10 23:32 G 30496669.38 30496669.48 30496669.59 0.0144 0.0100

Saturn 78784-12-11 12:44 G 30496669.92 30496670.03 30496670.14 0.0270 0.0174

Uranus 78785-03-09 04:05 G 30496757.55 30496757.67 30496757.80 0.0144 0.0076

Uranus 78785-06-05 08:39 G 30496845.73 30496845.86 30496846.00 0.0144 0.0053

Uranus 78785-09-01 13:27 G 30496933.91 30496934.06 30496934.20 0.0144 0.0029

Pluto 78785-10-28 09:08 G 30496990.81 30496990.88 30496990.98 0.0063 0.0053

Uranus 78785-11-28 18:00 G 30497022.10 30497022.25 30497022.40 0.0144 0.0005

Jupiter 78786-01-21 10:20 G 30497075.78 30497075.93 30497076.07 0.0531 0.0236

Pluto 78786-01-24 10:05 G 30497078.81 30497078.92 30497079.05 0.0063 0.0043

Uranus 78786-02-24 22:34 G 30497110.30 30497110.44 30497110.59 0.0144 0.0020

Pluto 78786-04-22 10:48 G 30497166.82 30497166.95 30497167.11 0.0063 0.0032

Uranus 78786-05-24 03:22 G 30497198.50 30497198.64 30497198.78 0.0144 0.0044

Pluto 78786-07-19 11:46 G 30497254.85 30497254.99 30497255.16 0.0063 0.0022

Uranus 78786-08-20 07:56 G 30497286.70 30497286.83 30497286.97 0.0144 0.0068

Pluto 78786-10-15 12:58 G 30497342.88 30497343.04 30497343.20 0.0063 0.0011

Uranus 78786-11-16 12:44 G 30497374.92 30497375.03 30497375.15 0.0144 0.0093

Pluto 78787-01-11 13:41 G 30497430.91 30497431.07 30497431.24 0.0063 0.0002

Uranus 78787-02-12 17:17 G 30497463.15 30497463.22 30497463.32 0.0144 0.0118

Pluto 78787-04-09 14:39 G 30497518.95 30497519.11 30497519.27 0.0063 0.0011

Uranus 78787-05-11 22:05 G 30497551.42 30497551.42 30497551.45 0.0143 0.0143

Pluto 78787-07-06 15:22 G 30497606.99 30497607.14 30497607.30 0.0064 0.0022

Pluto 78787-10-02 16:05 G 30497695.05 30497695.17 30497695.32 0.0064 0.0033

Pluto 78787-12-29 16:48 G 30497783.10 30497783.20 30497783.34 0.0064 0.0044

Pluto 78788-03-26 18:00 G 30497871.17 30497871.25 30497871.34 0.0064 0.0054

Mars 78788-07-17 14:53 G 30497984.02 30497984.12 30497984.21 0.1688 0.0986

Venus 78788-10-18 05:32 G 30498076.62 30498076.73 30498076.84 0.3648 0.1042

Mars 78789-05-30 17:03 G 30498301.05 30498301.21 30498301.37 0.1828 0.0284

Mars 78790-06-22 23:03 G 30498689.38 30498689.46 30498689.54 0.1711 0.1251

Jupiter 78791-09-09 05:46 G 30499132.61 30499132.74 30499132.88 0.0497 0.0120

Moon 78792-06-02 07:12 G 30499399.69 30499399.80 30499399.91 0.2623 0.1365

Earth 78792-06-02 07:56 G 30499399.73 30499399.83 30499399.94 0.2626 0.1496 *

Earth 78796-11-25 17:32 G 30501037.13 30501037.23 30501037.32 0.2707 0.1929

Moon 78796-11-25 18:29 G 30501037.18 30501037.27 30501037.37 0.2710 0.1871 *

Jupiter 78797-11-09 09:51 G 30501385.83 30501385.91 30501385.99 0.0530 0.0461

Mars 78797-12-08 01:12 G 30501414.50 30501414.55 30501414.60 0.1683 0.1485

Jupiter 78798-02-07 11:32 G 30501475.92 30501475.98 30501476.05 0.0533 0.0484

Saturn 78798-07-30 10:05 G 30501648.81 30501648.92 30501649.04 0.0291 0.0212

Mars 78798-10-20 14:53 G 30501730.98 30501731.12 30501731.26 0.1835 0.0864

Saturn 78798-10-27 06:29 G 30501737.60 30501737.77 30501737.94 0.0290 0.0038

Saturn 78799-01-24 02:24 G 30501826.45 30501826.60 30501826.74 0.0290 0.0132

Earth 78799-05-26 23:32 G 30501949.43 30501949.48 30501949.54 0.2625 0.2281

Moon 78799-05-27 00:29 G 30501949.46 30501949.52 30501949.58 0.2623 0.2244 *

Mars 78799-11-13 08:39 G 30502119.75 30502119.86 30502119.97 0.1705 0.0680

Jupiter 78803-06-28 08:39 G 30503442.75 30503442.86 30503442.98 0.0498 0.0295

Jupiter 78803-09-25 17:17 G 30503532.12 30503532.22 30503532.31 0.0495 0.0364

Mars 78809-04-04 18:44 G 30505550.16 30505550.28 30505550.39 0.1700 0.0151

Jupiter 78809-11-26 10:48 G 30505785.81 30505785.95 30505786.09 0.0532 0.0253

Earth 78809-11-28 17:32 G 30505788.09 30505788.23 30505788.36 0.2707 0.0151

Moon 78809-11-28 18:29 G 30505788.13 30505788.27 30505788.40 0.2703 0.0087 *

Earth 78812-05-28 19:56 G 30506700.22 30506700.33 30506700.45 0.2625 0.0973

Moon 78812-05-28 20:10 G 30506700.23 30506700.34 30506700.46 0.2619 0.0875 *

Saturn 78813-08-08 03:22 G 30507136.55 30507136.64 30507136.74 0.0269 0.0194

Saturn 78813-11-04 15:22 G 30507225.01 30507225.14 30507225.28 0.0269 0.0082

Saturn 78814-02-01 03:36 G 30507313.50 30507313.65 30507313.79 0.0269 0.0033

Saturn 78814-04-30 15:51 G 30507402.04 30507402.16 30507402.28 0.0270 0.0150

Saturn 78814-07-28 04:20 G 30507490.68 30507490.68 30507490.70 0.0270 0.0269

Jupiter 78815-04-16 12:15 G 30507752.96 30507753.01 30507753.06 0.0499 0.0458

Jupiter 78815-07-14 20:39 G 30507842.23 30507842.36 30507842.49 0.0496 0.0198

Mars 78818-08-26 04:34 G 30508980.58 30508980.69 30508980.81 0.1694 0.0402

Mars 78819-07-09 18:58 G 30509298.20 30509298.29 30509298.39 0.1820 0.1472

Jupiter 78821-09-14 08:53 G 30510095.71 30510095.87 30510096.04 0.0531 0.0014

Earth 78822-12-01 17:03 G 30510539.11 30510539.21 30510539.32 0.2707 0.1590

Moon 78822-12-01 17:32 G 30510539.12 30510539.23 30510539.34 0.2701 0.1559 *

Moon 78825-05-31 16:20 G 30511451.05 30511451.18 30511451.30 0.2619 0.0285

Earth 78825-05-31 16:34 G 30511451.06 30511451.19 30511451.31 0.2626 0.0379 *

Uranus 78827-03-29 22:05 G 30512118.39 30512118.42 30512118.47 0.0134 0.0130

Jupiter 78827-05-03 00:15 G 30512152.37 30512152.51 30512152.65 0.0497 0.0038

Uranus 78827-06-26 03:36 G 30512206.56 30512206.65 30512206.76 0.0134 0.0107

Uranus 78827-09-22 09:08 G 30512294.75 30512294.88 30512295.02 0.0134 0.0084

Saturn 78827-12-17 12:00 G 30512380.91 30512381.00 30512381.10 0.0291 0.0242

Uranus 78827-12-19 14:39 G 30512382.96 30512383.11 30512383.26 0.0134 0.0062

Mars 78828-01-16 14:53 G 30512411.02 30512411.12 30512411.21 0.1688 0.0923

Saturn 78828-03-15 08:39 G 30512469.69 30512469.86 30512470.02 0.0291 0.0067

Uranus 78828-03-16 19:56 G 30512471.17 30512471.33 30512471.49 0.0134 0.0039

Saturn 78828-06-12 04:20 G 30512558.53 30512558.68 30512558.84 0.0290 0.0105

Uranus 78828-06-13 01:12 G 30512559.39 30512559.55 30512559.72 0.0134 0.0017

Saturn 78828-09-08 23:46 G 30512647.44 30512647.49 30512647.55 0.0290 0.0269

Uranus 78828-09-09 06:29 G 30512647.60 30512647.77 30512647.94 0.0134 0.0006

Mars 78828-11-28 17:32 G 30512728.07 30512728.23 30512728.38 0.1827 0.0384

Uranus 78828-12-06 11:46 G 30512735.83 30512735.99 30512736.15 0.0134 0.0028

Uranus 78829-03-04 16:48 G 30512824.05 30512824.20 30512824.36 0.0134 0.0050

Uranus 78829-05-31 21:51 G 30512912.28 30512912.41 30512912.56 0.0134 0.0072

Uranus 78829-08-28 02:53 G 30513000.51 30513000.62 30513000.75 0.0135 0.0094

Uranus 78829-11-24 08:10 G 30513088.76 30513088.84 30513088.93 0.0135 0.0115

Mars 78829-12-21 23:03 G 30513116.38 30513116.46 30513116.53 0.1711 0.1314

Venus 78832-10-12 00:58 G 30514141.41 30514141.54 30514141.67 0.3724 0.1135

Jupiter 78833-07-03 07:56 G 30514405.68 30514405.83 30514405.97 0.0530 0.0243

Venus 78834-04-25 17:03 G 30514702.18 30514702.21 30514702.24 0.3646 0.3496

Mars 78837-06-08 01:12 G 30515841.49 30515841.55 30515841.61 0.1683 0.1425

Mars 78838-04-20 15:22 G 30516158.00 30516158.14 30516158.29 0.1835 0.0757

Moon 78838-06-03 12:15 G 30516201.92 30516202.01 30516202.11 0.2624 0.1717

Earth 78838-06-03 13:12 G 30516201.96 30516202.05 30516202.14 0.2626 0.1763 *

Jupiter 78839-02-19 03:51 G 30516462.53 30516462.66 30516462.80 0.0497 0.0122

Mars 78839-05-14 08:39 G 30516546.75 30516546.86 30516546.97 0.1705 0.0746

Venus 78839-11-09 10:05 G 30516725.81 30516725.92 30516726.03 0.3647 0.0736

Earth 78842-11-26 23:03 G 30517839.36 30517839.46 30517839.57 0.2707 0.1589

Moon 78842-11-27 00:15 G 30517839.40 30517839.51 30517839.62 0.2709 0.1421 *

Saturn 78842-12-26 05:46 G 30517868.67 30517868.74 30517868.82 0.0269 0.0224

Saturn 78843-03-24 17:46 G 30517957.11 30517957.24 30517957.36 0.0269 0.0113

Saturn 78843-06-21 05:46 G 30518045.59 30518045.74 30518045.88 0.0269 0.0006

Saturn 78843-09-17 17:46 G 30518134.12 30518134.24 30518134.38 0.0270 0.0117

Saturn 78843-12-15 06:15 G 30518222.70 30518222.76 30518222.84 0.0270 0.0235

Jupiter 78845-04-21 06:58 G 30518715.72 30518715.79 30518715.86 0.0530 0.0478

Venus 78845-05-25 03:22 G 30518749.55 30518749.64 30518749.73 0.3648 0.2127

Earth 78845-05-27 04:48 G 30518751.62 30518751.70 30518751.78 0.2625 0.2025

Moon 78845-05-27 05:32 G 30518751.65 30518751.73 30518751.82 0.2622 0.1892 *

Jupiter 78845-07-20 08:39 G 30518805.79 30518805.86 30518805.94 0.0533 0.0469

Mars 78848-10-03 18:29 G 30519977.15 30519977.27 30519977.39 0.1699 0.0194

Neptune 78849-05-26 17:46 G 30520212.22 30520212.24 30520212.29 0.0090 0.0088

Neptune 78849-08-22 20:39 G 30520300.28 30520300.36 30520300.45 0.0090 0.0078

Neptune 78849-11-18 23:03 G 30520388.37 30520388.46 30520388.58 0.0090 0.0069

Neptune 78850-02-15 01:41 G 30520476.46 30520476.57 30520476.71 0.0090 0.0059

Neptune 78850-05-14 04:34 G 30520564.55 30520564.69 30520564.83 0.0090 0.0049

Neptune 78850-08-10 06:58 G 30520652.65 30520652.79 30520652.95 0.0090 0.0040

Neptune 78850-11-06 09:51 G 30520740.75 30520740.91 30520741.07 0.0090 0.0030

Jupiter 78850-12-08 07:41 G 30520772.70 30520772.82 30520772.93 0.0498 0.0282

Neptune 78851-02-02 12:15 G 30520828.85 30520829.01 30520829.18 0.0090 0.0021

Jupiter 78851-03-07 16:05 G 30520862.08 30520862.17 30520862.26 0.0495 0.0377

Neptune 78851-05-01 14:53 G 30520916.96 30520917.12 30520917.29 0.0090 0.0011

Neptune 78851-07-28 17:32 G 30521005.06 30521005.23 30521005.40 0.0090 0.0002

Neptune 78851-10-24 19:56 G 30521093.17 30521093.33 30521093.50 0.0090 0.0008

Neptune 78852-01-20 22:34 G 30521181.28 30521181.44 30521181.60 0.0090 0.0017

Neptune 78852-04-18 00:58 G 30521269.39 30521269.54 30521269.70 0.0090 0.0026

Neptune 78852-07-15 03:22 G 30521357.50 30521357.64 30521357.80 0.0090 0.0035

Neptune 78852-10-11 05:46 G 30521445.61 30521445.74 30521445.90 0.0090 0.0045

Neptune 78853-01-07 08:24 G 30521533.72 30521533.85 30521533.99 0.0090 0.0054

Neptune 78853-04-05 10:48 G 30521621.84 30521621.95 30521622.08 0.0090 0.0063

Neptune 78853-07-02 13:12 G 30521709.96 30521710.05 30521710.16 0.0090 0.0072

Neptune 78853-09-28 15:36 G 30521798.09 30521798.15 30521798.23 0.0090 0.0081

Earth 78855-11-29 23:03 G 30522590.33 30522590.46 30522590.59 0.2707 0.0195

Moon 78855-11-30 00:00 G 30522590.37 30522590.50 30522590.63 0.2703 0.0224 *

Jupiter 78857-05-08 08:39 G 30523115.72 30523115.86 30523116.00 0.0532 0.0251

Saturn 78857-08-02 06:58 G 30523201.64 30523201.79 30523201.94 0.0290 0.0128

Saturn 78857-10-30 02:53 G 30523290.46 30523290.62 30523290.79 0.0290 0.0045

Saturn 78858-01-26 22:34 G 30523379.33 30523379.44 30523379.55 0.0290 0.0211

Mars 78858-02-24 04:34 G 30523407.57 30523407.69 30523407.81 0.1694 0.0341

Earth 78858-05-30 01:12 G 30523502.43 30523502.55 30523502.67 0.2625 0.0713

Moon 78858-05-30 01:27 G 30523502.44 30523502.56 30523502.68 0.2619 0.0760 *

Mars 78859-01-07 19:56 G 30523725.25 30523725.33 30523725.40 0.1820 0.1586

Jupiter 78862-09-26 10:34 G 30525082.89 30525082.94 30525082.99 0.0498 0.0456

Jupiter 78862-12-24 18:44 G 30525172.15 30525172.28 30525172.41 0.0496 0.0199

Mars 78867-07-17 14:53 G 30526838.02 30526838.12 30526838.22 0.1688 0.0858

Mars 78868-05-29 18:15 G 30527155.10 30527155.26 30527155.41 0.1827 0.0495

Uranus 78868-07-07 21:36 G 30527194.38 30527194.40 30527194.44 0.0144 0.0140

Uranus 78868-10-04 02:10 G 30527282.52 30527282.59 30527282.68 0.0144 0.0117

Earth 78868-12-01 22:48 G 30527341.35 30527341.45 30527341.54 0.2707 0.1910

Moon 78868-12-01 22:48 G 30527341.37 30527341.45 30527341.54 0.2700 0.2001 *

Uranus 78868-12-31 06:44 G 30527370.68 30527370.78 30527370.90 0.0144 0.0093

Jupiter 78869-02-24 07:56 G 30527425.67 30527425.83 30527425.99 0.0531 0.0016

Uranus 78869-03-29 11:17 G 30527458.85 30527458.97 30527459.10 0.0144 0.0070

Mars 78869-06-21 23:03 G 30527543.39 30527543.46 30527543.53 0.1711 0.1378

Uranus 78869-06-25 15:51 G 30527547.03 30527547.16 30527547.30 0.0144 0.0046

Uranus 78869-09-21 20:24 G 30527635.21 30527635.35 30527635.50 0.0144 0.0023

Uranus 78869-12-19 01:12 G 30527723.40 30527723.55 30527723.70 0.0144 0.0002

Uranus 78870-03-17 05:46 G 30527811.60 30527811.74 30527811.89 0.0144 0.0026

Uranus 78870-06-13 10:20 G 30527899.80 30527899.93 30527900.08 0.0144 0.0051

Uranus 78870-09-09 15:08 G 30527988.01 30527988.13 30527988.26 0.0144 0.0075

Uranus 78870-12-06 19:56 G 30528076.23 30528076.33 30528076.44 0.0144 0.0100

Uranus 78871-03-05 00:29 G 30528164.46 30528164.52 30528164.61 0.0144 0.0125

Moon 78871-06-01 21:22 G 30528253.26 30528253.39 30528253.51 0.2620 0.0666

Earth 78871-06-01 21:51 G 30528253.28 30528253.41 30528253.53 0.2626 0.0651 *

Saturn 78872-05-14 08:53 G 30528600.82 30528600.87 30528600.92 0.0269 0.0249

Saturn 78872-08-10 20:39 G 30528689.24 30528689.36 30528689.48 0.0269 0.0138

Saturn 78872-11-07 08:39 G 30528777.72 30528777.86 30528778.00 0.0269 0.0025

Saturn 78873-02-03 20:53 G 30528866.23 30528866.37 30528866.51 0.0270 0.0091

Saturn 78873-05-03 09:08 G 30528954.80 30528954.88 30528954.98 0.0270 0.0209

Jupiter 78874-10-12 22:05 G 30529482.28 30529482.42 30529482.56 0.0497 0.0034

Pluto 78875-12-28 15:22 G 30529924.07 30529924.14 30529924.22 0.0081 0.0070

Pluto 78876-03-25 17:03 G 30530012.09 30530012.21 30530012.33 0.0081 0.0049

Pluto 78876-06-21 18:29 G 30530100.13 30530100.27 30530100.42 0.0081 0.0029

Pluto 78876-09-17 20:10 G 30530188.19 30530188.34 30530188.49 0.0081 0.0008

Mars 78876-12-07 01:12 G 30530268.48 30530268.55 30530268.61 0.1683 0.1364

Pluto 78876-12-14 21:36 G 30530276.26 30530276.40 30530276.56 0.0081 0.0014

Pluto 78877-03-12 23:17 G 30530364.33 30530364.47 30530364.61 0.0080 0.0034

Pluto 78877-06-09 00:44 G 30530452.43 30530452.53 30530452.65 0.0080 0.0055

Pluto 78877-09-05 02:10 G 30530540.55 30530540.59 30530540.65 0.0080 0.0075

Mars 78877-10-19 16:05 G 30530585.02 30530585.17 30530585.32 0.1835 0.0640

Mars 78878-11-12 08:39 G 30530973.75 30530973.86 30530973.97 0.1705 0.0809

Jupiter 78880-12-13 05:46 G 30531735.60 30531735.74 30531735.89 0.0530 0.0242

Venus 78883-11-02 23:46 G 30532790.39 30532790.49 30532790.59 0.3725 0.2388

Moon 78884-06-03 17:32 G 30533004.15 30533004.23 30533004.32 0.2624 0.1866

Earth 78884-06-03 18:29 G 30533004.20 30533004.27 30533004.35 0.2626 0.2042 *

Jupiter 78886-08-01 01:56 G 30533792.44 30533792.58 30533792.72 0.0497 0.0127

Saturn 78886-12-20 09:08 G 30533933.74 30533933.88 30533934.03 0.0291 0.0156

Mars 78887-03-11 13:27 G 30534015.04 30534015.06 30534015.07 0.1842 0.1830

Saturn 78887-03-19 05:17 G 30534022.56 30534022.72 30534022.89 0.0291 0.0019

Saturn 78887-06-16 00:58 G 30534111.42 30534111.54 30534111.67 0.0290 0.0186

Mars 78888-04-03 18:29 G 30534404.15 30534404.27 30534404.39 0.1699 0.0260

Earth 78888-11-27 04:48 G 30534641.58 30534641.70 30534641.82 0.2707 0.1250

Moon 78888-11-27 06:00 G 30534641.63 30534641.75 30534641.87 0.2707 0.1126 *

Venus 78889-05-19 00:58 G 30534814.46 30534814.54 30534814.62 0.3723 0.2986

Venus 78890-11-30 14:53 G 30535375.04 30535375.12 30535375.20 0.3646 0.2464

Earth 78891-05-28 10:05 G 30535553.83 30535553.92 30535554.01 0.2625 0.1773

Moon 78891-05-28 10:34 G 30535553.85 30535553.94 30535554.04 0.2621 0.1718 *

Jupiter 78892-10-01 04:20 G 30536045.62 30536045.68 30536045.75 0.0529 0.0486

Jupiter 78892-12-30 06:15 G 30536135.68 30536135.76 30536135.84 0.0532 0.0460

Venus 78896-06-15 07:56 G 30537398.72 30537398.83 30537398.94 0.3647 0.0322

Mars 78897-08-25 04:34 G 30537834.57 30537834.69 30537834.81 0.1694 0.0279

Jupiter 78898-05-20 05:32 G 30538102.62 30538102.73 30538102.85 0.0498 0.0286

Mars 78898-07-08 20:10 G 30538152.28 30538152.34 30538152.40 0.1820 0.1671

Jupiter 78898-08-17 14:10 G 30538192.00 30538192.09 30538192.18 0.0495 0.0374

Earth 78901-12-01 04:48 G 30539392.57 30539392.70 30539392.83 0.2707 0.0528

Moon 78901-12-01 05:32 G 30539392.61 30539392.73 30539392.86 0.2703 0.0689 *

Saturn 78901-12-29 23:17 G 30539421.36 30539421.47 30539421.58 0.0269 0.0166

Venus 78901-12-31 01:12 G 30539422.50 30539422.55 30539422.60 0.3649 0.3218

Saturn 78902-03-28 11:17 G 30539509.83 30539509.97 30539510.11 0.0269 0.0054

Saturn 78902-06-24 23:17 G 30539598.33 30539598.47 30539598.61 0.0270 0.0061

Saturn 78902-09-21 11:32 G 30539686.88 30539686.98 30539687.10 0.0270 0.0178

Earth 78904-05-31 06:29 G 30540304.64 30540304.77 30540304.89 0.2625 0.0451

Moon 78904-05-31 06:29 G 30540304.65 30540304.77 30540304.90 0.2619 0.0379 *

Jupiter 78904-10-19 05:32 G 30540445.59 30540445.73 30540445.88 0.0532 0.0232

Mars 78907-01-16 14:39 G 30541265.00 30541265.11 30541265.21 0.1688 0.0804

Mars 78907-11-29 18:58 G 30541582.14 30541582.29 30541582.44 0.1828 0.0608

Mars 78908-12-21 22:48 G 30541970.39 30541970.45 30541970.52 0.1711 0.1437

Jupiter 78910-03-09 09:22 G 30542412.83 30542412.89 30542412.95 0.0499 0.0445

Jupiter 78910-06-06 17:32 G 30542502.10 30542502.23 30542502.36 0.0496 0.0210

Uranus 78911-04-20 05:46 G 30542819.67 30542819.74 30542819.81 0.0134 0.0122

Uranus 78911-07-17 11:03 G 30542907.85 30542907.96 30542908.08 0.0134 0.0099

Uranus 78911-10-13 16:34 G 30542996.06 30542996.19 30542996.33 0.0134 0.0076

Uranus 78912-01-09 21:51 G 30543084.26 30543084.41 30543084.57 0.0134 0.0054

Uranus 78912-04-07 03:22 G 30543172.48 30543172.64 30543172.80 0.0134 0.0031

Uranus 78912-07-04 08:39 G 30543260.69 30543260.86 30543261.03 0.0134 0.0009

Uranus 78912-09-30 13:56 G 30543348.91 30543349.08 30543349.25 0.0134 0.0014

Uranus 78912-12-27 19:12 G 30543437.14 30543437.30 30543437.46 0.0134 0.0036

Uranus 78913-03-26 00:15 G 30543525.36 30543525.51 30543525.66 0.0134 0.0058

Uranus 78913-06-22 05:17 G 30543613.60 30543613.72 30543613.86 0.0135 0.0080

Uranus 78913-09-18 10:20 G 30543701.83 30543701.93 30543702.05 0.0135 0.0102

Uranus 78913-12-15 15:36 G 30543790.09 30543790.15 30543790.22 0.0135 0.0123

Moon 78914-12-04 04:20 G 30544143.60 30544143.68 30544143.76 0.2700 0.2144

Earth 78914-12-04 04:20 G 30544143.61 30544143.68 30544143.75 0.2707 0.2231 *

Saturn 78916-05-09 07:27 G 30544665.70 30544665.81 30544665.93 0.0290 0.0216

Mars 78916-06-08 01:12 G 30544695.47 30544695.55 30544695.62 0.1683 0.1301

Saturn 78916-08-06 03:51 G 30544754.50 30544754.66 30544754.83 0.0290 0.0042

Jupiter 78916-08-07 05:32 G 30544755.57 30544755.73 30544755.89 0.0531 0.0012

Saturn 78916-11-02 23:46 G 30544843.34 30544843.49 30544843.64 0.0290 0.0129

Mars 78917-04-20 16:48 G 30545012.05 30545012.20 30545012.35 0.1835 0.0525

Moon 78917-06-03 02:24 G 30545055.48 30545055.60 30545055.72 0.2621 0.0779

Earth 78917-06-03 02:53 G 30545055.51 30545055.62 30545055.74 0.2626 0.0917 *

Mars 78918-05-14 08:39 G 30545400.75 30545400.86 30545400.96 0.1705 0.0868

Moon 78921-11-26 11:17 G 30546692.93 30546692.97 30546693.00 0.2712 0.2576

Jupiter 78922-03-25 20:24 G 30546812.21 30546812.35 30546812.49 0.0496 0.0033

Mars 78926-09-10 14:10 G 30548442.03 30548442.09 30548442.15 0.1842 0.1710

Mars 78927-10-04 18:29 G 30548831.15 30548831.27 30548831.39 0.1700 0.0323

Jupiter 78928-05-26 04:34 G 30549065.54 30549065.69 30549065.84 0.0530 0.0226

Moon 78930-06-05 22:48 G 30549806.39 30549806.45 30549806.51 0.2624 0.2282

Earth 78930-06-05 23:46 G 30549806.43 30549806.49 30549806.55 0.2626 0.2315 *

Saturn 78931-05-19 01:56 G 30550153.49 30550153.58 30550153.68 0.0269 0.0194

Saturn 78931-08-15 13:56 G 30550241.94 30550242.08 30550242.21 0.0269 0.0082

Neptune 78931-08-16 08:39 G 30550242.84 30550242.86 30550242.89 0.0088 0.0086

Saturn 78931-11-12 01:56 G 30550330.44 30550330.58 30550330.73 0.0270 0.0033

Neptune 78931-11-12 10:05 G 30550330.87 30550330.92 30550331.00 0.0088 0.0079

Neptune 78932-02-08 12:00 G 30550418.92 30550419.00 30550419.09 0.0088 0.0071

Saturn 78932-02-08 14:24 G 30550418.98 30550419.10 30550419.22 0.0270 0.0149 *

Neptune 78932-05-06 13:41 G 30550506.98 30550507.07 30550507.18 0.0088 0.0064

Saturn 78932-05-07 02:53 G 30550507.61 30550507.62 30550507.64 0.0270 0.0269

Neptune 78932-08-02 15:22 G 30550595.04 30550595.14 30550595.26 0.0088 0.0056

Neptune 78932-10-29 17:17 G 30550683.10 30550683.22 30550683.35 0.0088 0.0048

Neptune 78933-01-25 18:58 G 30550771.17 30550771.29 30550771.43 0.0088 0.0040

Neptune 78933-04-23 20:39 G 30550859.23 30550859.36 30550859.51 0.0088 0.0033

Neptune 78933-07-20 22:34 G 30550947.30 30550947.44 30550947.59 0.0088 0.0025

Neptune 78933-10-17 00:29 G 30551035.37 30551035.52 30551035.66 0.0088 0.0017

Jupiter 78934-01-11 23:46 G 30551122.36 30551122.49 30551122.63 0.0497 0.0133

Neptune 78934-01-13 02:10 G 30551123.44 30551123.59 30551123.74 0.0088 0.0009

Neptune 78934-04-11 04:05 G 30551211.52 30551211.67 30551211.81 0.0088 0.0003

Neptune 78934-07-08 05:46 G 30551299.59 30551299.74 30551299.89 0.0088 0.0006

Neptune 78934-10-04 07:27 G 30551387.67 30551387.81 30551387.96 0.0088 0.0015

Earth 78934-11-29 10:20 G 30551443.81 30551443.93 30551444.06 0.2707 0.0915

Moon 78934-11-29 11:32 G 30551443.86 30551443.98 30551444.11 0.2705 0.0811 *

Neptune 78934-12-31 09:08 G 30551475.75 30551475.88 30551476.04 0.0088 0.0023

Neptune 78935-03-29 11:03 G 30551563.83 30551563.96 30551564.11 0.0088 0.0031

Neptune 78935-06-25 12:44 G 30551651.91 30551652.03 30551652.18 0.0088 0.0039

Neptune 78935-09-21 14:39 G 30551739.99 30551740.11 30551740.25 0.0088 0.0047

Neptune 78935-12-18 16:20 G 30551828.08 30551828.18 30551828.31 0.0088 0.0055

Neptune 78936-03-15 18:15 G 30551916.17 30551916.26 30551916.38 0.0088 0.0063

Neptune 78936-06-11 20:10 G 30552004.26 30552004.34 30552004.44 0.0088 0.0071

Neptune 78936-09-07 22:05 G 30552092.36 30552092.42 30552092.50 0.0088 0.0079

Neptune 78936-12-04 23:46 G 30552180.49 30552180.49 30552180.53 0.0088 0.0087

Mars 78937-02-24 04:34 G 30552261.57 30552261.69 30552261.81 0.1694 0.0218

Earth 78937-05-29 15:08 G 30552356.03 30552356.13 30552356.23 0.2625 0.1515

Moon 78937-05-29 15:36 G 30552356.05 30552356.15 30552356.26 0.2620 0.1467 *

Mars 78938-01-07 20:53 G 30552579.34 30552579.37 30552579.40 0.1820 0.1783

Jupiter 78940-03-14 02:10 G 30553375.53 30553375.59 30553375.66 0.0529 0.0486

Venus 78940-06-09 23:46 G 30553463.36 30553463.49 30553463.62 0.3725 0.0461

Jupiter 78940-06-12 04:05 G 30553465.59 30553465.67 30553465.75 0.0532 0.0460

Saturn 78945-09-26 09:51 G 30555397.82 30555397.91 30555398.01 0.0291 0.0242

Jupiter 78945-10-31 03:36 G 30555432.54 30555432.65 30555432.76 0.0498 0.0292

Saturn 78945-12-24 06:29 G 30555486.61 30555486.77 30555486.93 0.0291 0.0067

Jupiter 78946-01-28 12:00 G 30555521.91 30555522.00 30555522.10 0.0496 0.0368

Saturn 78946-03-23 02:24 G 30555575.45 30555575.60 30555575.76 0.0290 0.0104

Saturn 78946-06-19 21:51 G 30555664.35 30555664.41 30555664.47 0.0290 0.0269

Mars 78946-07-17 14:39 G 30555692.01 30555692.11 30555692.22 0.1688 0.0738

Mars 78947-05-30 19:27 G 30556009.16 30556009.31 30556009.45 0.1827 0.0707

Venus 78947-07-08 12:44 G 30556047.93 30556048.03 30556048.13 0.3647 0.1435

Earth 78947-12-02 10:20 G 30556194.80 30556194.93 30556195.06 0.2707 0.0851

Moon 78947-12-02 11:03 G 30556194.84 30556194.96 30556195.09 0.2702 0.0893 *

Mars 78948-06-21 23:03 G 30556397.40 30556397.46 30556397.51 0.1711 0.1502

Moon 78950-06-01 11:32 G 30557106.86 30557106.98 30557107.11 0.2619 0.0225

Earth 78950-06-01 11:32 G 30557106.86 30557106.98 30557107.11 0.2625 0.0189 *

Jupiter 78952-03-31 03:08 G 30557775.48 30557775.63 30557775.77 0.0531 0.0223

Uranus 78952-07-29 05:17 G 30557895.67 30557895.72 30557895.78 0.0144 0.0132

Uranus 78952-10-25 09:36 G 30557983.82 30557983.90 30557984.00 0.0144 0.0109

Venus 78953-01-21 05:46 G 30558071.64 30558071.74 30558071.84 0.3648 0.1388

Uranus 78953-01-21 14:24 G 30558071.98 30558072.10 30558072.21 0.0144 0.0085

Uranus 78953-04-19 18:44 G 30558160.15 30558160.28 30558160.42 0.0144 0.0062

Uranus 78953-07-16 23:32 G 30558248.33 30558248.48 30558248.62 0.0144 0.0038

Uranus 78953-10-13 04:05 G 30558336.52 30558336.67 30558336.81 0.0144 0.0014

Uranus 78954-01-09 08:39 G 30558424.71 30558424.86 30558425.01 0.0144 0.0010

Uranus 78954-04-07 13:12 G 30558512.91 30558513.05 30558513.20 0.0144 0.0035

Uranus 78954-07-04 18:00 G 30558601.12 30558601.25 30558601.39 0.0144 0.0059

Uranus 78954-09-30 22:48 G 30558689.33 30558689.45 30558689.57 0.0144 0.0083

Uranus 78954-12-28 03:22 G 30558777.55 30558777.64 30558777.74 0.0144 0.0108

Uranus 78955-03-26 08:10 G 30558865.79 30558865.84 30558865.90 0.0144 0.0133

Mars 78955-12-08 00:58 G 30559122.46 30559122.54 30559122.62 0.1683 0.1245

Mars 78956-10-19 17:17 G 30559439.07 30559439.22 30559439.38 0.1835 0.0424

Jupiter 78957-08-19 07:12 G 30559742.75 30559742.80 30559742.86 0.0499 0.0450

Mars 78957-11-12 08:39 G 30559827.76 30559827.86 30559827.96 0.1705 0.0931

Jupiter 78957-11-16 15:36 G 30559832.02 30559832.15 30559832.28 0.0496 0.0206

Saturn 78960-10-05 04:48 G 30560885.63 30560885.70 30560885.78 0.0269 0.0220

Moon 78960-12-04 09:51 G 30560945.87 30560945.91 30560945.94 0.2699 0.2593

Earth 78960-12-04 09:51 G 30560945.87 30560945.91 30560945.95 0.2707 0.2549 *

Saturn 78961-01-01 16:48 G 30560974.07 30560974.20 30560974.33 0.0269 0.0109

Saturn 78961-03-31 04:48 G 30561062.55 30561062.70 30561062.84 0.0269 0.0008

Saturn 78961-06-27 16:48 G 30561151.08 30561151.20 30561151.34 0.0270 0.0121

Saturn 78961-09-24 05:17 G 30561239.66 30561239.72 30561239.79 0.0270 0.0239

Moon 78963-06-04 07:27 G 30561857.70 30561857.81 30561857.92 0.2622 0.1158

Earth 78963-06-04 08:10 G 30561857.73 30561857.84 30561857.95 0.2626 0.1186 *

Jupiter 78964-01-18 02:10 G 30562085.43 30562085.59 30562085.76 0.0531 0.0016

Mars 78966-03-11 15:08 G 30562869.05 30562869.13 30562869.21 0.1842 0.1579

Mars 78967-04-04 18:29 G 30563258.15 30563258.27 30563258.39 0.1699 0.0378

Earth 78967-11-27 15:51 G 30563495.10 30563495.16 30563495.22 0.2708 0.2391

Moon 78967-11-27 17:03 G 30563495.14 30563495.21 30563495.27 0.2710 0.2355 *

Jupiter 78969-09-04 19:12 G 30564142.16 30564142.30 30564142.44 0.0497 0.0044

Earth 78970-05-28 00:00 G 30564407.48 30564407.50 30564407.53 0.2625 0.2558

Moon 78970-05-28 00:58 G 30564407.51 30564407.54 30564407.57 0.2624 0.2514 *

Saturn 78975-05-13 05:03 G 30566218.56 30566218.71 30566218.87 0.0290 0.0125

Saturn 78975-08-10 01:12 G 30566307.39 30566307.55 30566307.72 0.0290 0.0047

Jupiter 78975-11-06 01:56 G 30566395.43 30566395.58 30566395.72 0.0530 0.0236

Saturn 78975-11-06 20:39 G 30566396.26 30566396.36 30566396.48 0.0289 0.0215

Moon 78976-06-06 04:20 G 30566608.63 30566608.68 30566608.72 0.2626 0.2424

Earth 78976-06-06 05:03 G 30566608.70 30566608.71 30566608.73 0.2626 0.2602 *

Mars 78976-08-25 04:34 G 30566688.57 30566688.69 30566688.81 0.1694 0.0163

Earth 78980-11-29 16:05 G 30568246.04 30568246.17 30568246.30 0.2707 0.0575

Moon 78980-11-29 17:17 G 30568246.09 30568246.22 30568246.35 0.2705 0.0398 *

Jupiter 78981-06-23 22:05 G 30568452.29 30568452.42 30568452.56 0.0497 0.0131

Earth 78983-05-30 20:24 G 30569158.24 30569158.35 30569158.46 0.2625 0.1257

Moon 78983-05-30 20:53 G 30569158.26 30569158.37 30569158.48 0.2619 0.1171 *

Mars 78986-01-15 14:39 G 30570119.00 30570119.11 30570119.22 0.1688 0.0677

Mars 78986-11-28 19:56 G 30570436.19 30570436.33 30570436.48 0.1828 0.0816

Jupiter 78987-08-25 00:58 G 30570705.47 30570705.54 30570705.61 0.0529 0.0473

Jupiter 78987-11-23 02:53 G 30570795.55 30570795.62 30570795.69 0.0532 0.0475

Mars 78987-12-21 23:03 G 30570824.41 30570824.46 30570824.50 0.1711 0.1563

Saturn 78990-02-22 07:12 G 30571617.76 30571617.80 30571617.85 0.0269 0.0251

Saturn 78990-05-21 18:58 G 30571706.17 30571706.29 30571706.41 0.0269 0.0140

Saturn 78990-08-18 06:58 G 30571794.65 30571794.79 30571794.94 0.0270 0.0028

Saturn 78990-11-14 19:12 G 30571883.17 30571883.30 30571883.44 0.0270 0.0089

Saturn 78991-02-11 07:41 G 30571971.73 30571971.82 30571971.91 0.0270 0.0207

Jupiter 78993-04-12 01:41 G 30572762.46 30572762.57 30572762.68 0.0498 0.0295

Jupiter 78993-07-10 10:05 G 30572851.82 30572851.92 30572852.01 0.0495 0.0363

Earth 78993-12-02 16:05 G 30572997.05 30572997.17 30572997.28 0.2707 0.1185

Moon 78993-12-02 16:34 G 30572997.07 30572997.19 30572997.30 0.2701 0.1236 *

Uranus 78995-05-10 12:44 G 30573520.96 30573521.03 30573521.13 0.0134 0.0115

Mars 78995-06-08 00:58 G 30573549.46 30573549.54 30573549.63 0.1683 0.1181

Uranus 78995-08-06 18:15 G 30573609.15 30573609.26 30573609.40 0.0134 0.0092

Uranus 78995-11-02 23:46 G 30573697.35 30573697.49 30573697.64 0.0134 0.0069

Uranus 78996-01-30 05:03 G 30573785.56 30573785.71 30573785.88 0.0134 0.0047

Mars 78996-04-19 18:15 G 30573866.10 30573866.26 30573866.41 0.1835 0.0303

Uranus 78996-04-27 10:34 G 30573873.78 30573873.94 30573874.11 0.0134 0.0024

Moon 78996-06-01 16:34 G 30573909.07 30573909.19 30573909.32 0.2619 0.0071

Earth 78996-06-01 16:48 G 30573909.07 30573909.20 30573909.32 0.2625 0.0081 *

Uranus 78996-07-24 15:51 G 30573962.00 30573962.16 30573962.33 0.0134 0.0004

Uranus 78996-10-20 21:08 G 30574050.22 30574050.38 30574050.55 0.0134 0.0021

Venus 78997-01-14 23:46 G 30574136.37 30574136.49 30574136.61 0.3724 0.1431

Uranus 78997-01-17 02:24 G 30574138.44 30574138.60 30574138.76 0.0134 0.0043

Uranus 78997-04-15 07:27 G 30574226.67 30574226.81 30574226.96 0.0134 0.0066

Mars 78997-05-13 08:39 G 30574254.76 30574254.86 30574254.96 0.1705 0.0995

Uranus 78997-07-12 12:29 G 30574314.91 30574315.02 30574315.16 0.0134 0.0088

Uranus 78997-10-08 17:46 G 30574403.15 30574403.24 30574403.34 0.0135 0.0109

Uranus 78998-01-04 22:34 G 30574491.42 30574491.44 30574491.49 0.0135 0.0131

Venus 78998-07-29 17:32 G 30574697.17 30574697.23 30574697.28 0.3646 0.3145

Jupiter 78999-09-11 00:58 G 30575105.40 30575105.54 30575105.69 0.0531 0.0223

80TH MILLENNIUM CE

This is a list of transits of Mercury in the 80th millennium CE.

FROM MAX- C START MAX END SUNRAD DEPTH S
TRANSIT

Venus 79004-02-13 10:20 G 30576720.82 30576720.93 30576721.04 0.3647 0.0413

Saturn 79004-09-30 07:12 G 30576950.66 30576950.80 30576950.95 0.0291 0.0153

Mars 79004-10-29 11:32 G 30576979.97 30576979.98 30576979.98 0.1678 0.1672

Saturn 79004-12-28 03:36 G 30577039.48 30577039.65 30577039.82 0.0291 0.0021

Jupiter 79005-01-30 05:17 G 30577072.67 30577072.72 30577072.78 0.0499 0.0455

Saturn 79005-03-26 23:17 G 30577128.35 30577128.47 30577128.60 0.0290 0.0189

Jupiter 79005-04-29 13:41 G 30577161.94 30577162.07 30577162.20 0.0496 0.0202

Mars 79005-09-10 15:22 G 30577296.05 30577296.14 30577296.23 0.1842 0.1489

Mars 79006-10-04 18:29 G 30577685.15 30577685.27 30577685.39 0.1699 0.0442

Moon 79009-06-05 12:44 G 30578659.92 30578660.03 30578660.14 0.2621 0.1319

Earth 79009-06-05 13:27 G 30578659.96 30578660.06 30578660.16 0.2626 0.1458 *

Venus 79009-08-29 03:36 G 30578744.57 30578744.65 30578744.73 0.3648 0.2461

Jupiter 79011-06-30 23:46 G 30579415.33 30579415.49 30579415.66 0.0530 0.0023

Earth 79013-11-28 21:36 G 30580297.32 30580297.40 30580297.49 0.2707 0.2045

Moon 79013-11-28 22:48 G 30580297.35 30580297.45 30580297.55 0.2708 0.1825 *

Neptune 79014-02-22 16:34 G 30580383.14 30580383.19 30580383.26 0.0090 0.0083

Neptune 79014-05-21 18:58 G 30580471.21 30580471.29 30580471.41 0.0090 0.0074

Neptune 79014-08-17 21:51 G 30580559.30 30580559.41 30580559.54 0.0090 0.0064

Neptune 79014-11-14 00:44 G 30580647.39 30580647.53 30580647.66 0.0090 0.0054

Neptune 79015-02-10 03:08 G 30580735.49 30580735.63 30580735.78 0.0090 0.0045

Neptune 79015-05-09 05:46 G 30580823.59 30580823.74 30580823.90 0.0090 0.0035

Neptune 79015-08-05 08:24 G 30580911.69 30580911.85 30580912.02 0.0090 0.0026

Neptune 79015-11-01 11:03 G 30580999.80 30580999.96 30581000.13 0.0090 0.0016

Neptune 79016-01-28 13:41 G 30581087.90 30581088.07 30581088.24 0.0090 0.0007

Mars 79016-02-25 04:34 G 30581115.57 30581115.69 30581115.81 0.1694 0.0105

Neptune 79016-04-25 16:20 G 30581176.01 30581176.18 30581176.34 0.0090 0.0003

Earth 79016-05-29 05:17 G 30581209.66 30581209.72 30581209.78 0.2625 0.2305

Moon 79016-05-29 06:00 G 30581209.68 30581209.75 30581209.82 0.2622 0.2151 *

Neptune 79016-07-22 18:44 G 30581264.12 30581264.28 30581264.45 0.0090 0.0012

Neptune 79016-10-18 21:08 G 30581352.23 30581352.38 30581352.55 0.0090 0.0022

Neptune 79017-01-14 23:46 G 30581440.34 30581440.49 30581440.65 0.0090 0.0031

Jupiter 79017-02-15 17:17 G 30581472.08 30581472.22 30581472.36 0.0497 0.0041

Neptune 79017-04-13 02:10 G 30581528.45 30581528.59 30581528.75 0.0090 0.0040

Neptune 79017-07-10 04:48 G 30581616.56 30581616.70 30581616.84 0.0090 0.0049

Neptune 79017-10-06 06:58 G 30581704.68 30581704.79 30581704.93 0.0090 0.0059

Neptune 79018-01-02 09:22 G 30581792.80 30581792.89 30581793.01 0.0090 0.0068

Neptune 79018-03-31 11:46 G 30581880.93 30581880.99 30581881.09 0.0090 0.0077

Neptune 79018-06-27 14:10 G 30581969.06 30581969.09 30581969.16 0.0090 0.0086

Saturn 79019-10-09 21:51 G 30582438.31 30582438.41 30582438.53 0.0269 0.0166

Saturn 79020-01-06 09:51 G 30582526.77 30582526.91 30582527.05 0.0269 0.0054

Saturn 79020-04-03 22:05 G 30582615.28 30582615.42 30582615.56 0.0270 0.0062

Saturn 79020-07-01 10:20 G 30582703.83 30582703.93 30582704.04 0.0270 0.0178

Jupiter 79023-04-18 22:48 G 30583725.31 30583725.45 30583725.59 0.0530 0.0256

Mars 79025-07-17 14:39 G 30584546.00 30584546.11 30584546.22 0.1688 0.0621

Mars 79026-05-30 20:53 G 30584863.23 30584863.37 30584863.50 0.1828 0.0931

Earth 79026-12-01 21:51 G 30585048.28 30585048.41 30585048.54 0.2707 0.0235

Moon 79026-12-01 23:03 G 30585048.32 30585048.46 30585048.59 0.2705 0.0195 *

Mars 79027-06-22 23:03 G 30585251.42 30585251.46 30585251.49 0.1711 0.1623

Jupiter 79028-12-04 20:53 G 30585782.23 30585782.37 30585782.51 0.0497 0.0121

Earth 79029-06-01 01:27 G 30585960.45 30585960.56 30585960.68 0.2625 0.1004

Moon 79029-06-01 01:56 G 30585960.47 30585960.58 30585960.70 0.2619 0.0995 *

Pluto 79032-06-15 19:27 G 30587071.27 30587071.31 30587071.37 0.0063 0.0059

Pluto 79032-09-11 20:10 G 30587159.25 30587159.34 30587159.46 0.0063 0.0049

Pluto 79032-12-08 21:08 G 30587247.26 30587247.38 30587247.52 0.0063 0.0038

Pluto 79033-03-06 22:20 G 30587335.28 30587335.43 30587335.58 0.0063 0.0027

Pluto 79033-06-02 23:03 G 30587423.31 30587423.46 30587423.63 0.0063 0.0017

Pluto 79033-08-30 00:00 G 30587511.34 30587511.50 30587511.67 0.0063 0.0006

Pluto 79033-11-26 00:58 G 30587599.38 30587599.54 30587599.71 0.0063 0.0005

Saturn 79034-02-17 06:00 G 30587682.64 30587682.75 30587682.87 0.0290 0.0210

Pluto 79034-02-22 01:41 G 30587687.42 30587687.57 30587687.74 0.0063 0.0016

Saturn 79034-05-17 02:24 G 30587771.44 30587771.60 30587771.77 0.0290 0.0036

Pluto 79034-05-21 02:24 G 30587775.47 30587775.60 30587775.76 0.0064 0.0027

Saturn 79034-08-13 22:20 G 30587860.29 30587860.43 30587860.58 0.0290 0.0134

Pluto 79034-08-17 03:36 G 30587863.52 30587863.65 30587863.78 0.0064 0.0037

Pluto 79034-11-13 04:20 G 30587951.58 30587951.68 30587951.80 0.0064 0.0048

Mars 79034-12-08 00:58 G 30587976.45 30587976.54 30587976.63 0.1683 0.1121

Jupiter 79035-02-04 22:05 G 30588035.36 30588035.42 30588035.49 0.0529 0.0484

Pluto 79035-02-09 05:03 G 30588039.67 30588039.71 30588039.79 0.0064 0.0059

Jupiter 79035-05-06 00:15 G 30588125.44 30588125.51 30588125.59 0.0532 0.0466

Mars 79035-10-20 18:44 G 30588293.12 30588293.28 30588293.44 0.1835 0.0197

Uranus 79036-08-19 12:58 G 30588596.97 30588597.04 30588597.12 0.0144 0.0123

Mars 79036-11-12 08:24 G 30588681.76 30588681.85 30588681.95 0.1705 0.1051

Uranus 79036-11-15 17:32 G 30588685.13 30588685.23 30588685.33 0.0144 0.0100

Uranus 79037-02-11 21:51 G 30588773.30 30588773.41 30588773.54 0.0144 0.0077

Uranus 79037-05-11 02:24 G 30588861.47 30588861.60 30588861.74 0.0144 0.0053

Uranus 79037-08-07 07:12 G 30588949.65 30588949.80 30588949.94 0.0144 0.0029

Uranus 79037-11-03 11:46 G 30589037.84 30589037.99 30589038.14 0.0144 0.0005

Uranus 79038-01-30 16:20 G 30589126.04 30589126.18 30589126.33 0.0144 0.0019

Uranus 79038-04-28 20:53 G 30589214.24 30589214.37 30589214.52 0.0144 0.0044

Uranus 79038-07-26 01:41 G 30589302.44 30589302.57 30589302.71 0.0144 0.0068

Uranus 79038-10-22 06:15 G 30589390.66 30589390.76 30589390.89 0.0144 0.0093

Uranus 79039-01-18 11:03 G 30589478.89 30589478.96 30589479.06 0.0144 0.0118

Uranus 79039-04-16 16:05 G 30589567.15 30589567.17 30589567.19 0.0144 0.0142

Earth 79039-12-04 21:36 G 30589799.29 30589799.40 30589799.51 0.2707 0.1508

Moon 79039-12-04 21:51 G 30589799.31 30589799.41 30589799.52 0.2700 0.1569 *

Jupiter 79040-09-23 00:00 G 30590092.39 30590092.50 30590092.61 0.0498 0.0291

Jupiter 79040-12-21 08:24 G 30590181.76 30590181.85 30590181.94 0.0495 0.0367

Moon 79042-06-03 21:36 G 30590711.27 30590711.40 30590711.52 0.2620 0.0324

Earth 79042-06-03 22:05 G 30590711.29 30590711.42 30590711.54 0.2626 0.0356 *

Mars 79044-04-29 11:32 G 30591406.95 30591406.98 30591407.01 0.1678 0.1610

Mars 79045-03-11 16:20 G 30591723.07 30591723.18 30591723.28 0.1842 0.1363

Mars 79046-04-04 18:29 G 30592112.16 30592112.27 30592112.39 0.1699 0.0506

Jupiter 79047-02-21 23:46 G 30592435.35 30592435.49 30592435.63 0.0532 0.0238

Venus 79048-02-06 22:20 G 30592785.32 30592785.43 30592785.54 0.3725 0.2126

Saturn 79049-02-26 00:00 G 30593170.41 30593170.50 30593170.59 0.0269 0.0199

Saturn 79049-05-25 11:46 G 30593258.86 30593258.99 30593259.13 0.0269 0.0088

Saturn 79049-08-22 00:00 G 30593347.35 30593347.50 30593347.64 0.0270 0.0027

Saturn 79049-11-18 12:15 G 30593435.89 30593436.01 30593436.13 0.0270 0.0143

Saturn 79050-02-15 00:44 G 30593524.50 30593524.53 30593524.57 0.0270 0.0263

Jupiter 79052-07-12 03:36 G 30594402.60 30594402.65 30594402.71 0.0499 0.0454

Jupiter 79052-10-09 11:46 G 30594491.86 30594491.99 30594492.12 0.0496 0.0200

Venus 79053-08-22 23:32 G 30594809.42 30594809.48 30594809.54 0.3724 0.3256

Venus 79055-03-06 15:08 G 30595370.04 30595370.13 30595370.22 0.3646 0.2139

Moon 79055-06-06 18:00 G 30595462.15 30595462.25 30595462.34 0.2622 0.1674

Earth 79055-06-06 18:44 G 30595462.19 30595462.28 30595462.37 0.2626 0.1734 *

Mars 79055-08-26 04:20 G 30595542.56 30595542.68 30595542.80 0.1694 0.0074

Jupiter 79058-12-10 21:51 G 30596745.25 30596745.41 30596745.57 0.0530 0.0016

Earth 79059-11-30 03:22 G 30597099.54 30597099.64 30597099.74 0.2708 0.1701

Moon 79059-11-30 04:34 G 30597099.59 30597099.69 30597099.80 0.2708 0.1657 *

Venus 79060-09-19 08:10 G 30597393.73 30597393.84 30597393.95 0.3647 0.0656

Earth 79062-05-30 10:20 G 30598011.86 30598011.93 30598012.01 0.2625 0.2056

Moon 79062-05-30 11:03 G 30598011.89 30598011.96 30598012.04 0.2621 0.2048 *

Saturn 79063-07-07 07:56 G 30598414.74 30598414.83 30598414.92 0.0291 0.0242

Saturn 79063-10-04 04:20 G 30598503.52 30598503.68 30598503.85 0.0291 0.0067

Saturn 79064-01-01 00:29 G 30598592.37 30598592.52 30598592.68 0.0290 0.0105

Saturn 79064-03-29 19:56 G 30598681.28 30598681.33 30598681.39 0.0290 0.0271

Jupiter 79064-07-28 15:22 G 30598802.00 30598802.14 30598802.28 0.0497 0.0040

Mars 79065-01-15 14:39 G 30598973.00 30598973.11 30598973.22 0.1688 0.0557

Mars 79065-11-28 21:08 G 30599290.25 30599290.38 30599290.51 0.1827 0.1024

Venus 79066-04-05 01:27 G 30599417.54 30599417.56 30599417.59 0.3648 0.3527

Mars 79066-12-21 22:48 G 30599678.44 30599678.45 30599678.47 0.1711 0.1684

Jupiter 79070-09-28 20:39 G 30601055.22 30601055.36 30601055.50 0.0530 0.0257

Earth 79072-12-02 03:36 G 30601850.51 30601850.65 30601850.78 0.2707 0.0132

Moon 79072-12-02 04:20 G 30601850.55 30601850.68 30601850.82 0.2704 0.0293 *

Mars 79074-06-08 00:58 G 30602403.45 30602403.54 30602403.63 0.1683 0.1062

Mars 79075-04-20 19:27 G 30602720.15 30602720.31 30602720.47 0.1835 0.0099

Earth 79075-06-02 06:44 G 30602762.66 30602762.78 30602762.90 0.2625 0.0741

Moon 79075-06-02 06:58 G 30602762.67 30602762.79 30602762.91 0.2619 0.0652 *

Mars 79076-05-13 08:39 G 30603108.77 30603108.86 30603108.95 0.1705 0.1116

Jupiter 79076-05-16 18:58 G 30603112.16 30603112.29 30603112.43 0.0498 0.0122

Saturn 79078-07-16 02:53 G 30603902.55 30603902.62 30603902.70 0.0269 0.0225

Saturn 79078-10-12 14:53 G 30603990.99 30603991.12 30603991.25 0.0269 0.0114

Saturn 79079-01-09 02:53 G 30604079.47 30604079.62 30604079.76 0.0269 0.0004

Uranus 79079-03-04 14:53 G 30604134.08 30604134.12 30604134.18 0.0134 0.0129

Saturn 79079-04-07 15:08 G 30604168.00 30604168.13 30604168.26 0.0270 0.0116

Uranus 79079-05-31 20:24 G 30604222.26 30604222.35 30604222.46 0.0134 0.0106

Saturn 79079-07-05 03:22 G 30604256.58 30604256.64 30604256.72 0.0270 0.0234

Uranus 79079-08-28 01:56 G 30604310.45 30604310.58 30604310.72 0.0134 0.0083

Uranus 79079-11-24 07:12 G 30604398.66 30604398.80 30604398.96 0.0134 0.0061

Uranus 79080-02-20 12:44 G 30604486.87 30604487.03 30604487.20 0.0134 0.0038

Uranus 79080-05-18 18:15 G 30604575.09 30604575.26 30604575.43 0.0134 0.0015

Uranus 79080-08-14 23:32 G 30604663.31 30604663.48 30604663.65 0.0134 0.0008

Uranus 79080-11-11 04:34 G 30604751.54 30604751.69 30604751.86 0.0134 0.0031

Uranus 79081-02-07 09:51 G 30604839.76 30604839.91 30604840.07 0.0134 0.0052

Uranus 79081-05-06 15:08 G 30604927.99 30604928.13 30604928.27 0.0134 0.0074

Uranus 79081-08-02 20:10 G 30605016.23 30605016.34 30605016.46 0.0134 0.0096

Uranus 79081-10-30 01:12 G 30605104.48 30605104.55 30605104.64 0.0135 0.0118

Jupiter 79082-07-17 19:12 G 30605365.25 30605365.30 30605365.35 0.0529 0.0499

Jupiter 79082-10-15 21:08 G 30605455.31 30605455.38 30605455.47 0.0532 0.0452

Mars 79083-10-29 11:17 G 30605833.93 30605833.97 30605834.02 0.1677 0.1555

Mars 79084-09-09 17:03 G 30606150.09 30606150.21 30606150.33 0.1842 0.1240

Mars 79085-10-03 18:29 G 30606539.15 30606539.27 30606539.38 0.1699 0.0563

Earth 79085-12-05 03:08 G 30606601.54 30606601.63 30606601.73 0.2707 0.1839

Moon 79085-12-05 03:36 G 30606601.55 30606601.65 30606601.74 0.2700 0.1813 *

Jupiter 79088-03-04 22:48 G 30607422.33 30607422.45 30607422.56 0.0498 0.0281

Jupiter 79088-06-02 07:12 G 30607511.71 30607511.80 30607511.89 0.0496 0.0378

Moon 79088-06-04 02:39 G 30607513.49 30607513.61 30607513.74 0.2619 0.0520

Earth 79088-06-04 03:08 G 30607513.51 30607513.63 30607513.75 0.2625 0.0618 *

Saturn 79093-02-20 03:08 G 30609235.48 30609235.63 30609235.78 0.0290 0.0124

Saturn 79093-05-19 23:17 G 30609324.31 30609324.47 30609324.64 0.0290 0.0048

Saturn 79093-08-16 18:44 G 30609413.18 30609413.28 30609413.40 0.0290 0.0216

Jupiter 79094-08-03 21:08 G 30609765.24 30609765.38 30609765.53 0.0532 0.0230

Mars 79095-02-24 04:20 G 30609969.56 30609969.68 30609969.80 0.1694 0.0058

Neptune 79096-05-13 07:27 G 30610413.78 30610413.81 30610413.87 0.0088 0.0083

Neptune 79096-08-09 09:22 G 30610501.82 30610501.89 30610501.97 0.0088 0.0075

Neptune 79096-11-05 11:03 G 30610589.87 30610589.96 30610590.06 0.0088 0.0068

Neptune 79097-02-01 12:44 G 30610677.93 30610678.03 30610678.14 0.0088 0.0060

Neptune 79097-04-30 14:24 G 30610765.99 30610766.10 30610766.23 0.0088 0.0053

Neptune 79097-07-27 16:05 G 30610854.05 30610854.17 30610854.31 0.0088 0.0045

Neptune 79097-10-23 18:00 G 30610942.12 30610942.25 30610942.39 0.0088 0.0037

Neptune 79098-01-19 19:41 G 30611030.19 30611030.32 30611030.47 0.0088 0.0029

Neptune 79098-04-17 21:22 G 30611118.26 30611118.39 30611118.54 0.0088 0.0022

Neptune 79098-07-14 23:17 G 30611206.33 30611206.47 30611206.62 0.0088 0.0014

Neptune 79098-10-11 00:58 G 30611294.40 30611294.54 30611294.69 0.0088 0.0007

Neptune 79099-01-07 02:53 G 30611382.47 30611382.62 30611382.77 0.0088 0.0002

Neptune 79099-04-05 04:34 G 30611470.55 30611470.69 30611470.84 0.0088 0.0010

Neptune 79099-07-02 06:29 G 30611558.62 30611558.77 30611558.92 0.0088 0.0018

Neptune 79099-09-28 08:10 G 30611646.70 30611646.84 30611646.99 0.0088 0.0026

Jupiter 79099-12-23 02:10 G 30611732.53 30611732.59 30611732.65 0.0499 0.0448

Neptune 79099-12-25 09:51 G 30611734.78 30611734.91 30611735.06 0.0088 0.0034

Jupiter 79100-03-22 10:05 G 30611821.80 30611821.92 30611822.05 0.0496 0.0207

Neptune 79100-03-23 11:46 G 30611822.86 30611822.99 30611823.13 0.0088 0.0042

Neptune 79100-06-19 13:27 G 30611910.95 30611911.06 30611911.20 0.0088 0.0050

Neptune 79100-09-15 15:22 G 30611999.04 30611999.14 30611999.26 0.0088 0.0058

Neptune 79100-12-12 17:17 G 30612087.13 30612087.22 30612087.33 0.0088 0.0066

Neptune 79101-03-10 18:58 G 30612175.22 30612175.29 30612175.38 0.0088 0.0074

Neptune 79101-06-06 20:53 G 30612263.33 30612263.37 30612263.44 0.0088 0.0082

Moon 79101-06-07 23:03 G 30612264.38 30612264.46 30612264.55 0.2624 0.1909

Earth 79101-06-08 00:00 G 30612264.42 30612264.50 30612264.58 0.2626 0.2006 *

Mars 79104-07-17 14:39 G 30613399.99 30613400.11 30613400.22 0.1688 0.0494

Venus 79104-09-13 22:20 G 30613458.30 30613458.43 30613458.57 0.3725 0.0217

Mars 79105-05-30 21:51 G 30613717.29 30613717.41 30613717.54 0.1828 0.1132

Earth 79105-12-01 09:08 G 30613901.76 30613901.88 30613901.99 0.2707 0.1358

Moon 79105-12-01 10:20 G 30613901.81 30613901.93 30613902.05 0.2708 0.1131 *

Jupiter 79106-05-23 20:39 G 30614075.20 30614075.36 30614075.52 0.0531 0.0003

Saturn 79107-12-04 04:48 G 30614634.67 30614634.70 30614634.73 0.0269 0.0261

Saturn 79108-03-01 16:20 G 30614723.07 30614723.18 30614723.30 0.0269 0.0151

Saturn 79108-05-29 04:20 G 30614811.54 30614811.68 30614811.82 0.0270 0.0039

Earth 79108-05-31 15:36 G 30614814.06 30614814.15 30614814.24 0.2625 0.1800

Moon 79108-05-31 16:20 G 30614814.08 30614814.18 30614814.28 0.2620 0.1645 *

Saturn 79108-08-25 16:34 G 30614900.05 30614900.19 30614900.33 0.0270 0.0077

Saturn 79108-11-22 04:48 G 30614988.61 30614988.70 30614988.80 0.0270 0.0195

Venus 79111-10-12 12:58 G 30616042.93 30616043.04 30616043.14 0.3646 0.1107

Jupiter 79112-01-09 13:41 G 30616131.93 30616132.07 30616132.21 0.0497 0.0041

Mars 79113-12-08 00:58 G 30616830.44 30616830.54 30616830.63 0.1683 0.1001

Mars 79114-10-20 20:10 G 30617147.18 30617147.34 30617147.49 0.1835 0.0058

Mars 79115-11-13 08:39 G 30617535.77 30617535.86 30617535.94 0.1705 0.1178

Venus 79117-04-27 06:00 G 30618066.66 30618066.75 30618066.85 0.3647 0.1722

Jupiter 79118-03-11 18:44 G 30618385.14 30618385.28 30618385.43 0.0529 0.0251

Earth 79118-12-04 09:08 G 30618652.75 30618652.88 30618653.01 0.2707 0.0435

Moon 79118-12-04 09:51 G 30618652.78 30618652.91 30618653.04 0.2702 0.0435 *

Uranus 79120-06-13 16:20 G 30619210.15 30619210.18 30619210.23 0.0144 0.0137

Uranus 79120-09-09 20:39 G 30619298.28 30619298.36 30619298.46 0.0144 0.0114

Uranus 79120-12-07 01:12 G 30619386.45 30619386.55 30619386.67 0.0144 0.0091

Uranus 79121-03-05 05:46 G 30619474.62 30619474.74 30619474.87 0.0144 0.0067

Uranus 79121-06-01 10:20 G 30619562.79 30619562.93 30619563.07 0.0144 0.0043

Moon 79121-06-03 12:00 G 30619564.87 30619565.00 30619565.12 0.2619 0.0539

Earth 79121-06-03 11:46 G 30619564.87 30619564.99 30619565.12 0.2625 0.0487 *

Uranus 79121-08-28 14:53 G 30619650.98 30619651.12 30619651.27 0.0144 0.0020

Uranus 79121-11-24 19:41 G 30619739.17 30619739.32 30619739.46 0.0144 0.0005

Uranus 79122-02-21 00:15 G 30619827.37 30619827.51 30619827.66 0.0144 0.0029

Uranus 79122-05-20 04:48 G 30619915.57 30619915.70 30619915.84 0.0144 0.0054

Saturn 79122-07-11 04:20 G 30619967.54 30619967.68 30619967.82 0.0291 0.0161

Uranus 79122-08-16 09:36 G 30620003.78 30620003.90 30620004.03 0.0144 0.0078

Saturn 79122-10-08 00:44 G 30620056.36 30620056.53 30620056.70 0.0291 0.0013

Uranus 79122-11-12 14:10 G 30620092.00 30620092.09 30620092.21 0.0144 0.0103

Pluto 79122-11-13 02:24 G 30620092.53 30620092.60 30620092.68 0.0081 0.0070

Saturn 79123-01-04 20:24 G 30620145.23 30620145.35 30620145.48 0.0290 0.0183

Uranus 79123-02-08 18:58 G 30620180.23 30620180.29 30620180.37 0.0144 0.0128

Pluto 79123-02-09 04:05 G 30620180.55 30620180.67 30620180.79 0.0081 0.0049

Mars 79123-04-30 11:17 G 30620260.92 30620260.97 30620261.03 0.1677 0.1493

Pluto 79123-05-08 05:32 G 30620268.59 30620268.73 30620268.88 0.0081 0.0029

Pluto 79123-08-04 07:12 G 30620356.65 30620356.80 30620356.95 0.0081 0.0008

Jupiter 79123-10-28 17:17 G 30620442.08 30620442.22 30620442.35 0.0498 0.0122

Pluto 79123-10-31 08:53 G 30620444.72 30620444.87 30620445.02 0.0081 0.0013

Pluto 79124-01-27 10:20 G 30620532.79 30620532.93 30620533.07 0.0081 0.0034

Mars 79124-03-11 17:32 G 30620577.10 30620577.23 30620577.35 0.1842 0.1143

Pluto 79124-04-24 11:32 G 30620620.89 30620620.98 30620621.11 0.0080 0.0055

Pluto 79124-07-21 13:27 G 30620709.01 30620709.06 30620709.12 0.0080 0.0075

Mars 79125-04-04 18:29 G 30620966.16 30620966.27 30620966.38 0.1699 0.0626

Jupiter 79129-12-28 17:17 G 30622695.17 30622695.22 30622695.28 0.0529 0.0494

Jupiter 79130-03-28 19:27 G 30622785.23 30622785.31 30622785.39 0.0532 0.0454

Earth 79131-12-07 08:53 G 30623403.79 30623403.87 30623403.94 0.2707 0.2158

Moon 79131-12-07 08:53 G 30623403.80 30623403.87 30623403.95 0.2700 0.2231 *

Moon 79134-06-06 07:56 G 30624315.71 30624315.83 30624315.95 0.2620 0.0872

Earth 79134-06-06 08:24 G 30624315.73 30624315.85 30624315.97 0.2626 0.0879 *

Mars 79134-08-26 04:20 G 30624396.56 30624396.68 30624396.80 0.1693 0.0094

Jupiter 79135-08-16 21:08 G 30624752.26 30624752.38 30624752.49 0.0499 0.0280

Jupiter 79135-11-14 05:17 G 30624841.64 30624841.72 30624841.82 0.0496 0.0381

Saturn 79137-07-19 19:27 G 30625455.21 30625455.31 30625455.42 0.0269 0.0176

Saturn 79137-10-16 07:12 G 30625543.67 30625543.80 30625543.94 0.0269 0.0065

Saturn 79138-01-12 19:12 G 30625632.17 30625632.30 30625632.45 0.0269 0.0050

Saturn 79138-04-11 07:41 G 30625720.71 30625720.82 30625720.93 0.0270 0.0166

Jupiter 79142-01-14 18:29 G 30627095.13 30627095.27 30627095.42 0.0531 0.0220

Mars 79144-01-16 14:24 G 30627826.99 30627827.10 30627827.22 0.1688 0.0441

Mars 79144-11-28 22:48 G 30628144.33 30628144.45 30628144.56 0.1828 0.1245

Jupiter 79147-06-05 00:58 G 30629062.48 30629062.54 30629062.60 0.0499 0.0437

Moon 79147-06-09 04:20 G 30629066.61 30629066.68 30629066.75 0.2626 0.2148

Earth 79147-06-09 05:17 G 30629066.66 30629066.72 30629066.78 0.2626 0.2286 *

Jupiter 79147-09-02 09:08 G 30629151.75 30629151.88 30629152.00 0.0496 0.0219

Saturn 79151-11-28 02:53 G 30630699.51 30630699.62 30630699.73 0.0291 0.0220

Earth 79151-12-02 14:39 G 30630703.99 30630704.11 30630704.24 0.2707 0.1021

Moon 79151-12-02 15:51 G 30630704.04 30630704.16 30630704.29 0.2707 0.0963 *

Saturn 79152-02-24 23:32 G 30630788.31 30630788.48 30630788.64 0.0290 0.0044

Saturn 79152-05-23 19:27 G 30630877.16 30630877.31 30630877.46 0.0290 0.0126

Mars 79153-06-08 00:58 G 30631257.44 30631257.54 30631257.64 0.1683 0.0939

Jupiter 79153-11-02 18:15 G 30631405.10 30631405.26 30631405.42 0.0531 0.0006

Mars 79154-04-20 20:39 G 30631574.20 30631574.36 30631574.52 0.1835 0.0141

Earth 79154-06-01 20:53 G 30631616.27 30631616.37 30631616.46 0.2625 0.1543

Moon 79154-06-01 21:22 G 30631616.29 30631616.39 30631616.49 0.2621 0.1531 *

Mars 79155-05-14 08:24 G 30631962.77 30631962.85 30631962.94 0.1705 0.1237

Jupiter 79159-06-21 12:29 G 30633461.88 30633462.02 30633462.16 0.0497 0.0053

Venus 79161-04-20 22:20 G 30634131.31 30634131.43 30634131.55 0.3725 0.1673

Mars 79162-10-29 11:17 G 30634687.91 30634687.97 30634688.03 0.1677 0.1432

Venus 79162-11-02 17:46 G 30634692.17 30634692.24 30634692.31 0.3645 0.2816

Uranus 79163-03-25 22:20 G 30634835.37 30634835.43 30634835.52 0.0134 0.0120

Uranus 79163-06-22 03:51 G 30634923.55 30634923.66 30634923.79 0.0134 0.0097

Mars 79163-09-10 18:15 G 30635004.13 30635004.26 30635004.39 0.1842 0.1025

Uranus 79163-09-18 09:22 G 30635011.76 30635011.89 30635012.04 0.0134 0.0074

Uranus 79163-12-15 14:53 G 30635099.97 30635100.12 30635100.28 0.0134 0.0052

Uranus 79164-03-12 20:10 G 30635188.18 30635188.34 30635188.51 0.0134 0.0029

Uranus 79164-06-09 01:41 G 30635276.40 30635276.57 30635276.74 0.0134 0.0007

Uranus 79164-09-05 06:58 G 30635364.62 30635364.79 30635364.96 0.0134 0.0016

Mars 79164-10-03 18:29 G 30635393.16 30635393.27 30635393.38 0.1699 0.0687

Uranus 79164-12-02 12:00 G 30635452.85 30635453.00 30635453.17 0.0134 0.0039

Earth 79164-12-04 14:53 G 30635454.99 30635455.12 30635455.24 0.2707 0.0770

Moon 79164-12-04 15:22 G 30635455.02 30635455.14 30635455.27 0.2701 0.0930 *

Uranus 79165-02-28 17:17 G 30635541.08 30635541.22 30635541.37 0.0134 0.0060

Uranus 79165-05-27 22:20 G 30635629.31 30635629.43 30635629.57 0.0134 0.0082

Jupiter 79165-08-21 17:32 G 30635715.09 30635715.23 30635715.38 0.0530 0.0234

Uranus 79165-08-24 03:36 G 30635717.55 30635717.65 30635717.76 0.0134 0.0104

Uranus 79165-11-20 08:24 G 30635805.81 30635805.85 30635805.92 0.0134 0.0126

Saturn 79166-12-06 20:39 G 30636187.28 30636187.36 30636187.45 0.0269 0.0217

Saturn 79167-03-05 08:24 G 30636275.72 30636275.85 30636275.98 0.0269 0.0106

Saturn 79167-06-01 20:24 G 30636364.21 30636364.35 30636364.50 0.0270 0.0010

Moon 79167-06-04 17:03 G 30636367.08 30636367.21 30636367.33 0.2619 0.0171

Earth 79167-06-04 17:03 G 30636367.09 30636367.21 30636367.34 0.2625 0.0219 *

Saturn 79167-08-29 08:39 G 30636452.73 30636452.86 30636452.99 0.0270 0.0124

Saturn 79167-11-25 21:08 G 30636541.32 30636541.38 30636541.44 0.0270 0.0242

Venus 79168-05-18 10:48 G 30636715.84 30636715.95 30636716.06 0.3646 0.0121

Jupiter 79171-04-09 15:51 G 30637772.03 30637772.16 30637772.30 0.0497 0.0114

Venus 79173-12-02 03:51 G 30638739.59 30638739.66 30638739.73 0.3647 0.2787

Mars 79174-02-24 04:20 G 30638823.56 30638823.68 30638823.80 0.1693 0.0149

Jupiter 79177-06-09 15:51 G 30640025.10 30640025.16 30640025.23 0.0529 0.0482

Jupiter 79177-09-07 17:46 G 30640115.17 30640115.24 30640115.32 0.0532 0.0466

Moon 79177-12-07 14:24 G 30640206.04 30640206.10 30640206.16 0.2700 0.2395

Earth 79177-12-07 14:24 G 30640206.05 30640206.10 30640206.15 0.2707 0.2481 *

Neptune 79178-08-24 12:15 G 30640466.00 30640466.01 30640466.03 0.0090 0.0089

Neptune 79178-11-20 14:39 G 30640554.05 30640554.11 30640554.20 0.0090 0.0080

Neptune 79179-02-16 17:17 G 30640642.13 30640642.22 30640642.34 0.0090 0.0070

Neptune 79179-05-15 20:10 G 30640730.22 30640730.34 30640730.47 0.0090 0.0060

Neptune 79179-08-11 22:48 G 30640818.32 30640818.45 30640818.60 0.0090 0.0050

Neptune 79179-11-08 01:27 G 30640906.42 30640906.56 30640906.72 0.0090 0.0041

Neptune 79180-02-04 04:05 G 30640994.52 30640994.67 30640994.84 0.0090 0.0031

Neptune 79180-05-02 06:44 G 30641082.62 30641082.78 30641082.95 0.0090 0.0022

Moon 79180-06-06 12:58 G 30641117.93 30641118.04 30641118.16 0.2621 0.1021

Earth 79180-06-06 13:41 G 30641117.96 30641118.07 30641118.18 0.2626 0.1152 *

Neptune 79180-07-29 09:22 G 30641170.73 30641170.89 30641171.06 0.0090 0.0012

Neptune 79180-10-25 12:00 G 30641258.84 30641259.00 30641259.17 0.0090 0.0003

Neptune 79181-01-21 14:39 G 30641346.94 30641347.11 30641347.28 0.0090 0.0007

Saturn 79181-04-16 03:22 G 30641431.57 30641431.64 30641431.71 0.0292 0.0264

Neptune 79181-04-19 17:17 G 30641435.05 30641435.22 30641435.38 0.0090 0.0016

Saturn 79181-07-14 00:00 G 30641520.34 30641520.50 30641520.67 0.0291 0.0087

Neptune 79181-07-16 19:41 G 30641523.16 30641523.32 30641523.48 0.0090 0.0025

Saturn 79181-10-10 20:10 G 30641609.18 30641609.34 30641609.50 0.0291 0.0086

Neptune 79181-10-12 22:05 G 30641611.28 30641611.42 30641611.58 0.0090 0.0035

Saturn 79182-01-07 15:51 G 30641698.08 30641698.16 30641698.24 0.0290 0.0253

Neptune 79182-01-09 00:44 G 30641699.39 30641699.53 30641699.68 0.0090 0.0044

Neptune 79182-04-07 03:22 G 30641787.50 30641787.64 30641787.77 0.0090 0.0053

Neptune 79182-07-04 05:17 G 30641875.62 30641875.72 30641875.86 0.0090 0.0063

Neptune 79182-09-30 07:56 G 30641963.75 30641963.83 30641963.94 0.0090 0.0072

Neptune 79182-12-27 10:20 G 30642051.88 30642051.93 30642052.02 0.0090 0.0081

Jupiter 79183-01-26 19:27 G 30642082.19 30642082.31 30642082.43 0.0499 0.0276

Neptune 79183-03-25 12:58 G 30642140.04 30642140.04 30642140.06 0.0090 0.0089

Jupiter 79183-04-26 03:51 G 30642171.57 30642171.66 30642171.75 0.0496 0.0385

Mars 79183-07-17 14:39 G 30642253.99 30642254.11 30642254.22 0.1688 0.0378

Mars 79184-05-29 23:03 G 30642571.36 30642571.46 30642571.57 0.1827 0.1338

Earth 79184-11-29 20:10 G 30642755.29 30642755.34 30642755.38 0.2708 0.2516

Moon 79184-11-29 21:08 G 30642755.32 30642755.38 30642755.45 0.2710 0.2378 *

Earth 79187-05-31 05:46 G 30643667.72 30643667.74 30643667.76 0.2625 0.2578

Moon 79187-05-31 06:44 G 30643667.74 30643667.78 30643667.82 0.2623 0.2483 *

Jupiter 79189-06-26 17:03 G 30644425.07 30644425.21 30644425.36 0.0531 0.0230

Mars 79192-12-07 00:44 G 30645684.43 30645684.53 30645684.64 0.1682 0.0886

Moon 79193-06-09 09:22 G 30645868.86 30645868.89 30645868.93 0.2626 0.2497

Earth 79193-06-09 10:34 G 30645868.91 30645868.94 30645868.96 0.2626 0.2559 *

Mars 79193-10-19 21:22 G 30646001.23 30646001.39 30646001.55 0.1835 0.0238

Mars 79194-11-12 08:39 G 30646389.78 30646389.86 30646389.93 0.1705 0.1298

Jupiter 79194-11-14 23:17 G 30646392.41 30646392.47 30646392.54 0.0499 0.0434

Jupiter 79195-02-12 07:27 G 30646481.68 30646481.81 30646481.94 0.0497 0.0223

Saturn 79196-04-24 23:32 G 30646919.43 30646919.48 30646919.55 0.0268 0.0243

Saturn 79196-07-22 11:17 G 30647007.85 30647007.97 30647008.10 0.0269 0.0133

Saturn 79196-10-18 23:17 G 30647096.33 30647096.47 30647096.61 0.0269 0.0020

Saturn 79197-01-15 11:32 G 30647184.84 30647184.98 30647185.11 0.0269 0.0095

Saturn 79197-04-13 23:46 G 30647273.41 30647273.49 30647273.58 0.0270 0.0213

Earth 79197-12-02 20:24 G 30647506.22 30647506.35 30647506.48 0.2707 0.0679

Moon 79197-12-02 21:36 G 30647506.26 30647506.40 30647506.53 0.2705 0.0518 *

Earth 79200-06-02 01:56 G 30648418.47 30648418.58 30648418.69 0.2625 0.1286

Moon 79200-06-02 02:24 G 30648418.49 30648418.60 30648418.71 0.2620 0.1179 *

Jupiter 79201-04-14 15:51 G 30648735.00 30648735.16 30648735.33 0.0530 0.0012

Mars 79202-04-29 11:17 G 30649114.90 30649114.97 30649115.03 0.1677 0.1374

Mars 79203-03-11 19:12 G 30649431.16 30649431.30 30649431.44 0.1842 0.0900

Mars 79204-04-03 18:15 G 30649820.16 30649820.26 30649820.37 0.1699 0.0744

Uranus 79204-07-04 00:00 G 30649911.44 30649911.50 30649911.56 0.0144 0.0130

Uranus 79204-09-30 04:20 G 30649999.59 30649999.68 30649999.78 0.0144 0.0106

Uranus 79204-12-27 08:39 G 30650087.75 30650087.86 30650087.99 0.0144 0.0083

Uranus 79205-03-25 13:12 G 30650175.93 30650176.05 30650176.19 0.0144 0.0059

Uranus 79205-06-21 18:00 G 30650264.11 30650264.25 30650264.39 0.0144 0.0035

Uranus 79205-09-17 22:34 G 30650352.29 30650352.44 30650352.59 0.0144 0.0011

Uranus 79205-12-15 03:08 G 30650440.49 30650440.63 30650440.78 0.0144 0.0013

Uranus 79206-03-13 07:41 G 30650528.68 30650528.82 30650528.97 0.0144 0.0038

Uranus 79206-06-09 12:29 G 30650616.89 30650617.02 30650617.16 0.0144 0.0062

Uranus 79206-09-05 17:03 G 30650705.10 30650705.21 30650705.34 0.0144 0.0087

Jupiter 79206-12-01 11:17 G 30650791.83 30650791.97 30650792.11 0.0497 0.0065

Uranus 79206-12-02 22:05 G 30650793.32 30650793.42 30650793.51 0.0144 0.0111

Uranus 79207-03-01 02:53 G 30650881.57 30650881.62 30650881.66 0.0144 0.0136

Saturn 79210-11-30 22:20 G 30652252.29 30652252.43 30652252.58 0.0291 0.0147

Earth 79210-12-05 20:24 G 30652257.23 30652257.35 30652257.47 0.2707 0.1095

Moon 79210-12-05 21:08 G 30652257.25 30652257.38 30652257.50 0.2701 0.1083 *

Saturn 79211-02-27 18:44 G 30652341.12 30652341.28 30652341.45 0.0290 0.0029

Saturn 79211-05-27 14:39 G 30652429.99 30652430.11 30652430.23 0.0290 0.0196

Venus 79212-05-11 20:53 G 30652780.25 30652780.37 30652780.49 0.3726 0.1886

Jupiter 79213-01-31 15:22 G 30653045.00 30653045.14 30653045.29 0.0530 0.0236

Moon 79213-06-04 22:05 G 30653169.30 30653169.42 30653169.55 0.2619 0.0049

Earth 79213-06-04 22:20 G 30653169.30 30653169.43 30653169.55 0.2625 0.0060 *

Mars 79213-08-25 04:20 G 30653250.56 30653250.68 30653250.80 0.1694 0.0210

Venus 79217-11-25 22:20 G 30654804.39 30654804.43 30654804.47 0.3725 0.3553

Jupiter 79218-09-19 14:39 G 30655101.97 30655102.11 30655102.25 0.0497 0.0101

Venus 79219-06-09 15:22 G 30655365.05 30655365.14 30655365.24 0.3645 0.1798

Mars 79223-01-15 14:24 G 30656680.99 30656681.10 30656681.22 0.1688 0.0320

Mars 79223-11-28 23:46 G 30656998.40 30656998.49 30656998.59 0.1828 0.1443

Jupiter 79224-11-19 14:39 G 30657355.04 30657355.11 30657355.19 0.0529 0.0465

Venus 79224-12-23 08:39 G 30657388.75 30657388.86 30657388.96 0.3647 0.1003

Jupiter 79225-02-17 17:03 G 30657445.14 30657445.21 30657445.27 0.0532 0.0486

Saturn 79225-12-09 12:29 G 30657739.91 30657740.02 30657740.13 0.0269 0.0175

Saturn 79226-03-08 00:15 G 30657828.37 30657828.51 30657828.65 0.0269 0.0063

Saturn 79226-06-04 12:15 G 30657916.87 30657917.01 30657917.15 0.0269 0.0051

Moon 79226-06-07 18:15 G 30657920.15 30657920.26 30657920.36 0.2622 0.1413

Earth 79226-06-07 18:58 G 30657920.18 30657920.29 30657920.39 0.2626 0.1427 *

Saturn 79226-09-01 00:29 G 30658005.41 30658005.52 30658005.64 0.0270 0.0167

Jupiter 79230-07-08 18:29 G 30659412.15 30659412.27 30659412.38 0.0498 0.0262

Jupiter 79230-10-06 02:39 G 30659501.53 30659501.61 30659501.70 0.0496 0.0397

Earth 79230-12-01 01:56 G 30659557.50 30659557.58 30659557.65 0.2708 0.2169

Moon 79230-12-01 02:53 G 30659557.54 30659557.62 30659557.71 0.2710 0.2070 *

Mars 79232-06-07 00:44 G 30660111.43 30660111.53 30660111.64 0.1682 0.0823

Mars 79233-04-19 22:05 G 30660428.26 30660428.42 30660428.58 0.1835 0.0352

Earth 79233-05-31 11:03 G 30660469.90 30660469.96 30660470.01 0.2625 0.2333

Moon 79233-05-31 11:46 G 30660469.93 30660469.99 30660470.05 0.2623 0.2246 *

Mars 79234-05-13 08:39 G 30660816.79 30660816.86 30660816.93 0.1705 0.1361

Jupiter 79236-12-06 15:36 G 30661755.01 30661755.15 30661755.30 0.0531 0.0247

Saturn 79240-04-18 22:05 G 30662984.30 30662984.42 30662984.55 0.0292 0.0197

Saturn 79240-07-16 18:44 G 30663073.12 30663073.28 30663073.45 0.0291 0.0021

Saturn 79240-10-13 14:53 G 30663161.98 30663162.12 30663162.26 0.0291 0.0151

Mars 79241-10-28 11:17 G 30663541.90 30663541.97 30663542.04 0.1677 0.1314

Jupiter 79242-04-26 21:51 G 30663722.34 30663722.41 30663722.48 0.0499 0.0427

Jupiter 79242-07-25 06:00 G 30663811.63 30663811.75 30663811.88 0.0497 0.0231

Mars 79242-09-09 19:27 G 30663858.16 30663858.31 30663858.45 0.1842 0.0810

Mars 79243-10-03 18:29 G 30664247.16 30664247.27 30664247.37 0.1699 0.0808

Earth 79243-12-04 02:10 G 30664308.46 30664308.59 30664308.72 0.2708 0.0337

Moon 79243-12-04 03:08 G 30664308.50 30664308.63 30664308.76 0.2704 0.0234 *

Earth 79246-06-03 06:58 G 30665220.68 30665220.79 30665220.91 0.2625 0.1032

Moon 79246-06-03 07:27 G 30665220.69 30665220.81 30665220.92 0.2619 0.1007 *

Uranus 79247-01-17 00:44 G 30665448.52 30665448.53 30665448.54 0.0134 0.0133

Uranus 79247-04-15 06:15 G 30665536.67 30665536.76 30665536.86 0.0134 0.0110

Uranus 79247-07-12 11:32 G 30665624.86 30665624.98 30665625.12 0.0134 0.0088

Uranus 79247-10-08 17:03 G 30665713.07 30665713.21 30665713.37 0.0134 0.0065

Uranus 79248-01-04 22:34 G 30665801.28 30665801.44 30665801.60 0.0134 0.0042

Uranus 79248-04-02 03:51 G 30665889.50 30665889.66 30665889.83 0.0134 0.0020

Uranus 79248-06-29 09:22 G 30665977.72 30665977.89 30665978.06 0.0134 0.0003

Jupiter 79248-09-24 14:53 G 30666064.95 30666065.12 30666065.28 0.0530 0.0016

Uranus 79248-09-25 14:39 G 30666065.94 30666066.11 30666066.27 0.0134 0.0025

Uranus 79248-12-22 19:41 G 30666154.17 30666154.32 30666154.48 0.0134 0.0047

Uranus 79249-03-21 00:58 G 30666242.40 30666242.54 30666242.69 0.0134 0.0069

Uranus 79249-06-17 06:00 G 30666330.64 30666330.75 30666330.88 0.0134 0.0091

Uranus 79249-09-13 11:17 G 30666418.89 30666418.97 30666419.06 0.0134 0.0113

Uranus 79249-12-10 16:20 G 30666507.18 30666507.18 30666507.19 0.0134 0.0134

Mars 79253-02-23 04:20 G 30667677.56 30667677.68 30667677.80 0.1693 0.0266

Jupiter 79254-05-13 09:36 G 30668121.77 30668121.90 30668122.04 0.0497 0.0072

Saturn 79255-04-28 15:22 G 30668472.05 30668472.14 30668472.23 0.0268 0.0201

Saturn 79255-07-26 03:08 G 30668560.50 30668560.63 30668560.76 0.0268 0.0091

Saturn 79255-10-22 15:08 G 30668648.99 30668649.13 30668649.27 0.0269 0.0023

Saturn 79256-01-19 03:08 G 30668737.51 30668737.63 30668737.76 0.0269 0.0139

Saturn 79256-04-16 15:36 G 30668826.11 30668826.15 30668826.20 0.0270 0.0256

Earth 79256-12-06 01:56 G 30669059.47 30669059.58 30669059.70 0.2707 0.1426

Moon 79256-12-06 02:24 G 30669059.50 30669059.60 30669059.71 0.2701 0.1544 *

Moon 79259-06-06 03:22 G 30669971.51 30669971.64 30669971.76 0.2619 0.0354

Earth 79259-06-06 03:36 G 30669971.52 30669971.65 30669971.77 0.2625 0.0323 *

Jupiter 79260-07-13 13:27 G 30670374.91 30670375.06 30670375.21 0.0529 0.0232

Neptune 79260-11-12 04:48 G 30670496.70 30670496.70 30670496.73 0.0088 0.0087

Neptune 79261-02-08 06:29 G 30670584.72 30670584.77 30670584.84 0.0088 0.0080

Neptune 79261-05-07 08:24 G 30670672.77 30670672.85 30670672.94 0.0088 0.0072

Neptune 79261-08-03 09:51 G 30670760.83 30670760.91 30670761.02 0.0088 0.0065

Neptune 79261-10-30 11:46 G 30670848.88 30670848.99 30670849.11 0.0088 0.0057

Neptune 79262-01-26 13:27 G 30670936.95 30670937.06 30670937.19 0.0088 0.0049

Neptune 79262-04-24 15:08 G 30671025.01 30671025.13 30671025.27 0.0088 0.0042

Mars 79262-07-16 14:24 G 30671107.98 30671108.10 30671108.22 0.1688 0.0258

Neptune 79262-07-21 17:03 G 30671113.07 30671113.21 30671113.35 0.0088 0.0034

Neptune 79262-10-17 18:44 G 30671201.14 30671201.28 30671201.42 0.0088 0.0026

Neptune 79263-01-13 20:24 G 30671289.21 30671289.35 30671289.50 0.0088 0.0018

Neptune 79263-04-11 22:20 G 30671377.28 30671377.43 30671377.57 0.0088 0.0011

Mars 79263-05-30 00:44 G 30671425.45 30671425.53 30671425.61 0.1827 0.1558

Neptune 79263-07-09 00:00 G 30671465.35 30671465.50 30671465.65 0.0088 0.0003

Neptune 79263-10-05 01:41 G 30671553.43 30671553.57 30671553.72 0.0088 0.0006

Neptune 79264-01-01 03:36 G 30671641.50 30671641.65 30671641.80 0.0088 0.0013

Neptune 79264-03-29 05:17 G 30671729.58 30671729.72 30671729.87 0.0088 0.0021

Neptune 79264-06-25 06:58 G 30671817.66 30671817.79 30671817.94 0.0088 0.0029

Neptune 79264-09-21 08:53 G 30671905.74 30671905.87 30671906.01 0.0088 0.0037

Neptune 79264-12-18 10:34 G 30671993.82 30671993.94 30671994.08 0.0088 0.0045

Neptune 79265-03-16 12:29 G 30672081.91 30672082.02 30672082.15 0.0088 0.0053

Neptune 79265-06-12 14:10 G 30672169.99 30672170.09 30672170.21 0.0088 0.0061

Neptune 79265-09-08 16:05 G 30672258.09 30672258.17 30672258.27 0.0088 0.0069

Neptune 79265-12-05 18:00 G 30672346.19 30672346.25 30672346.33 0.0088 0.0077

Jupiter 79266-03-01 13:41 G 30672431.93 30672432.07 30672432.20 0.0498 0.0088

Neptune 79266-03-03 19:41 G 30672434.30 30672434.32 30672434.37 0.0088 0.0085

Venus 79268-12-16 20:53 G 30673453.24 30673453.37 30673453.51 0.3726 0.0127

Saturn 79269-09-05 20:24 G 30673716.28 30673716.35 30673716.43 0.0291 0.0257

Saturn 79269-12-03 17:17 G 30673805.06 30673805.22 30673805.38 0.0291 0.0080

Saturn 79270-03-02 13:27 G 30673893.90 30673894.06 30673894.22 0.0291 0.0093

Saturn 79270-05-30 09:08 G 30673982.81 30673982.88 30673982.95 0.0290 0.0260

Venus 79270-06-30 20:24 G 30674014.32 30674014.35 30674014.38 0.3645 0.3477

Mars 79271-12-07 00:44 G 30674538.43 30674538.53 30674538.64 0.1683 0.0763

Jupiter 79272-05-01 12:44 G 30674684.95 30674685.03 30674685.11 0.0529 0.0462

Moon 79272-06-07 23:17 G 30674722.37 30674722.47 30674722.57 0.2623 0.1527

Earth 79272-06-08 00:15 G 30674722.41 30674722.51 30674722.60 0.2626 0.1701 *

Jupiter 79272-07-30 14:53 G 30674775.06 30674775.12 30674775.19 0.0532 0.0488

Mars 79272-10-18 22:34 G 30674855.29 30674855.44 30674855.60 0.1835 0.0455

Mars 79273-11-11 08:24 G 30675243.79 30675243.85 30675243.92 0.1705 0.1418

Venus 79276-01-14 13:12 G 30676037.94 30676038.05 30676038.16 0.3646 0.0762

Earth 79276-12-01 07:41 G 30676359.72 30676359.82 30676359.92 0.2708 0.1817

Moon 79276-12-01 08:39 G 30676359.76 30676359.86 30676359.97 0.2709 0.1639 *

Jupiter 79277-12-18 17:17 G 30676742.10 30676742.22 30676742.34 0.0498 0.0249

Jupiter 79278-03-18 01:27 G 30676831.49 30676831.56 30676831.64 0.0496 0.0412

Pluto 79279-04-30 05:46 G 30677239.71 30677239.74 30677239.79 0.0063 0.0061

Earth 79279-06-01 16:05 G 30677272.10 30677272.17 30677272.24 0.2625 0.2078

Moon 79279-06-01 16:48 G 30677272.12 30677272.20 30677272.29 0.2622 0.1961 *

Pluto 79279-07-27 06:29 G 30677327.69 30677327.77 30677327.88 0.0063 0.0051

Pluto 79279-10-23 07:27 G 30677415.70 30677415.81 30677415.95 0.0063 0.0040

Pluto 79280-01-19 08:24 G 30677503.71 30677503.85 30677504.00 0.0063 0.0030

Pluto 79280-04-16 09:08 G 30677591.74 30677591.88 30677592.05 0.0063 0.0020

Pluto 79280-07-13 10:20 G 30677679.77 30677679.93 30677680.09 0.0063 0.0008

Pluto 79280-10-09 11:17 G 30677767.80 30677767.97 30677768.13 0.0063 0.0003

Pluto 79281-01-05 12:00 G 30677855.84 30677856.00 30677856.16 0.0063 0.0013

Pluto 79281-04-03 12:58 G 30677943.89 30677944.04 30677944.19 0.0063 0.0024

Mars 79281-04-28 11:17 G 30677968.89 30677968.97 30677969.05 0.1677 0.1253

Pluto 79281-06-30 13:41 G 30678031.94 30678032.07 30678032.21 0.0064 0.0035

Venus 79281-07-30 06:29 G 30678061.68 30678061.77 30678061.86 0.3647 0.2058

Pluto 79281-09-26 14:24 G 30678120.00 30678120.10 30678120.23 0.0064 0.0046

Pluto 79281-12-23 15:08 G 30678208.08 30678208.13 30678208.23 0.0064 0.0057

Mars 79282-03-10 20:24 G 30678285.20 30678285.35 30678285.50 0.1842 0.0686

Mars 79283-04-03 18:29 G 30678674.16 30678674.27 30678674.37 0.1699 0.0869

Jupiter 79284-05-18 14:39 G 30679084.98 30679085.11 30679085.26 0.0531 0.0268

Saturn 79284-09-14 16:20 G 30679204.13 30679204.18 30679204.24 0.0268 0.0244

Saturn 79284-12-12 03:51 G 30679292.54 30679292.66 30679292.79 0.0269 0.0135

Saturn 79285-03-10 15:51 G 30679381.02 30679381.16 30679381.30 0.0269 0.0024

Saturn 79285-06-07 03:51 G 30679469.52 30679469.66 30679469.79 0.0269 0.0091

Saturn 79285-09-03 16:05 G 30679558.08 30679558.17 30679558.26 0.0270 0.0208

Uranus 79288-07-24 07:12 G 30680612.73 30680612.80 30680612.88 0.0144 0.0122

Uranus 79288-10-20 11:32 G 30680700.89 30680700.98 30680701.09 0.0144 0.0099

Uranus 79289-01-16 16:05 G 30680789.05 30680789.17 30680789.30 0.0144 0.0075

Uranus 79289-04-14 20:53 G 30680877.23 30680877.37 30680877.50 0.0144 0.0051

Uranus 79289-07-12 01:12 G 30680965.41 30680965.55 30680965.70 0.0144 0.0028

Jupiter 79289-10-06 21:08 G 30681052.30 30681052.38 30681052.46 0.0499 0.0408

Uranus 79289-10-08 06:00 G 30681053.60 30681053.75 30681053.90 0.0144 0.0004

Earth 79289-12-04 07:56 G 30681110.69 30681110.83 30681110.96 0.2707 0.0095

Moon 79289-12-04 08:53 G 30681110.73 30681110.87 30681111.00 0.2703 0.0122 *

Jupiter 79290-01-04 05:03 G 30681141.59 30681141.71 30681141.84 0.0496 0.0249

Uranus 79290-01-04 10:34 G 30681141.80 30681141.94 30681142.09 0.0144 0.0021 *

Uranus 79290-04-02 15:08 G 30681230.00 30681230.13 30681230.28 0.0144 0.0046

Uranus 79290-06-29 19:56 G 30681318.20 30681318.33 30681318.46 0.0144 0.0070

Uranus 79290-09-26 00:29 G 30681406.42 30681406.52 30681406.64 0.0144 0.0095

Uranus 79290-12-23 05:32 G 30681494.65 30681494.73 30681494.81 0.0144 0.0119

Earth 79292-06-03 12:15 G 30682022.89 30682023.01 30682023.13 0.2625 0.0769

Moon 79292-06-03 12:29 G 30682022.90 30682023.02 30682023.14 0.2618 0.0748 *

Mars 79292-08-24 04:20 G 30682104.56 30682104.68 30682104.80 0.1693 0.0329

Jupiter 79296-03-06 13:41 G 30683394.91 30683395.07 30683395.23 0.0530 0.0031

Saturn 79299-04-22 16:05 G 30684537.02 30684537.17 30684537.32 0.0292 0.0137

Saturn 79299-07-20 12:29 G 30684625.86 30684626.02 30684626.19 0.0291 0.0040

Saturn 79299-10-17 08:24 G 30684714.74 30684714.85 30684714.97 0.0291 0.0209

Jupiter 79301-10-24 08:24 G 30685451.71 30685451.85 30685451.99 0.0498 0.0080

Mars 79302-01-15 14:24 G 30685534.98 30685535.10 30685535.22 0.1688 0.0198

Mars 79302-11-29 00:58 G 30685852.47 30685852.54 30685852.61 0.1827 0.1644

Earth 79302-12-08 07:41 G 30685861.72 30685861.82 30685861.92 0.2707 0.1753

Moon 79302-12-08 07:56 G 30685861.73 30685861.83 30685861.93 0.2701 0.1739 *

Moon 79305-06-07 08:24 G 30686773.72 30686773.85 30686773.97 0.2620 0.0507

Earth 79305-06-07 08:39 G 30686773.74 30686773.86 30686773.98 0.2625 0.0586 *

Jupiter 79307-12-25 12:44 G 30687704.88 30687705.03 30687705.18 0.0529 0.0207

Mars 79311-06-08 00:44 G 30688965.42 30688965.53 30688965.64 0.1682 0.0704

Mars 79312-04-19 23:17 G 30689282.32 30689282.47 30689282.62 0.1835 0.0562

Mars 79313-05-13 08:39 G 30689670.80 30689670.86 30689670.92 0.1705 0.1480

Jupiter 79313-08-12 12:15 G 30689761.87 30689762.01 30689762.15 0.0498 0.0080

Saturn 79314-05-02 06:44 G 30690024.67 30690024.78 30690024.90 0.0268 0.0162

Saturn 79314-07-29 18:29 G 30690113.14 30690113.27 30690113.41 0.0268 0.0052

Saturn 79314-10-26 06:29 G 30690201.64 30690201.77 30690201.91 0.0269 0.0063

Saturn 79315-01-22 18:44 G 30690290.18 30690290.28 30690290.39 0.0269 0.0179

Moon 79318-06-10 04:34 G 30691524.60 30691524.69 30691524.77 0.2623 0.1941

Earth 79318-06-10 05:32 G 30691524.65 30691524.73 30691524.81 0.2626 0.1978 *

Jupiter 79319-10-13 11:03 G 30692014.88 30692014.96 30692015.05 0.0528 0.0453

Venus 79320-01-08 19:27 G 30692102.28 30692102.31 30692102.34 0.3727 0.3614

Jupiter 79320-01-11 13:12 G 30692105.00 30692105.05 30692105.11 0.0531 0.0495

Mars 79320-10-28 11:03 G 30692395.88 30692395.96 30692396.05 0.1677 0.1198

Mars 79321-09-09 21:08 G 30692712.23 30692712.38 30692712.53 0.1842 0.0568

Mars 79322-10-03 18:15 G 30693101.16 30693101.26 30693101.36 0.1699 0.0923

Earth 79322-12-03 13:12 G 30693161.94 30693162.05 30693162.17 0.2708 0.1473

Moon 79322-12-03 14:24 G 30693161.99 30693162.10 30693162.22 0.2707 0.1420 *

Jupiter 79325-05-31 16:05 G 30694072.05 30694072.17 30694072.29 0.0499 0.0236

Earth 79325-06-02 21:08 G 30694074.30 30694074.38 30694074.47 0.2625 0.1825

Moon 79325-06-02 21:51 G 30694074.32 30694074.41 30694074.50 0.2621 0.1792 *

Venus 79325-07-24 20:53 G 30694126.26 30694126.37 30694126.49 0.3726 0.1961

Jupiter 79325-08-29 00:29 G 30694161.45 30694161.52 30694161.59 0.0496 0.0427

Venus 79327-02-05 18:00 G 30694687.17 30694687.25 30694687.33 0.3645 0.2473

Saturn 79328-09-09 14:24 G 30695268.98 30695269.10 30695269.23 0.0291 0.0197

Saturn 79328-12-07 11:17 G 30695357.80 30695357.97 30695358.14 0.0291 0.0021

Saturn 79329-03-06 07:12 G 30695446.66 30695446.80 30695446.95 0.0291 0.0152

Mars 79331-01-30 17:46 G 30696142.20 30696142.24 30696142.29 0.1849 0.1772

Uranus 79331-02-07 08:10 G 30696149.79 30696149.84 30696149.92 0.0134 0.0124

Uranus 79331-05-06 13:56 G 30696237.97 30696238.08 30696238.20 0.0134 0.0101

Uranus 79331-08-02 19:27 G 30696326.18 30696326.31 30696326.45 0.0134 0.0078

Uranus 79331-10-30 00:58 G 30696414.39 30696414.54 30696414.69 0.0134 0.0055

Jupiter 79331-10-30 12:58 G 30696414.90 30696415.04 30696415.18 0.0531 0.0272

Uranus 79332-01-26 06:15 G 30696502.60 30696502.76 30696502.93 0.0134 0.0033

Mars 79332-02-24 04:20 G 30696531.56 30696531.68 30696531.80 0.1694 0.0388

Uranus 79332-04-23 11:46 G 30696590.82 30696590.99 30696591.16 0.0134 0.0011

Uranus 79332-07-20 17:03 G 30696679.04 30696679.21 30696679.38 0.0134 0.0012

Venus 79332-08-21 11:03 G 30696710.85 30696710.96 30696711.07 0.3646 0.0281

Uranus 79332-10-16 22:20 G 30696767.27 30696767.43 30696767.59 0.0134 0.0034

Uranus 79333-01-13 03:22 G 30696855.50 30696855.64 30696855.80 0.0134 0.0057

Uranus 79333-04-11 08:39 G 30696943.73 30696943.86 30696944.00 0.0134 0.0078

Uranus 79333-07-08 13:41 G 30697031.97 30697032.07 30697032.19 0.0134 0.0100

Uranus 79333-10-04 18:58 G 30697120.23 30697120.29 30697120.36 0.0134 0.0121

Earth 79335-12-06 13:27 G 30697912.93 30697913.06 30697913.19 0.2707 0.0342

Moon 79335-12-06 14:24 G 30697912.97 30697913.10 30697913.23 0.2703 0.0474 *

Jupiter 79337-03-19 19:56 G 30698382.25 30698382.33 30698382.42 0.0499 0.0394

Jupiter 79337-06-17 04:05 G 30698471.55 30698471.67 30698471.79 0.0496 0.0263

Venus 79338-03-07 04:05 G 30698734.62 30698734.67 30698734.73 0.3647 0.3098

Moon 79338-06-05 17:32 G 30698825.11 30698825.23 30698825.36 0.2618 0.0475

Earth 79338-06-05 17:32 G 30698825.11 30698825.23 30698825.35 0.2625 0.0507 *

Mars 79341-07-16 14:24 G 30699961.98 30699962.10 30699962.22 0.1688 0.0141

Mars 79342-05-30 01:41 G 30700279.53 30700279.57 30700279.61 0.1828 0.1752

Neptune 79343-05-22 10:20 G 30700636.89 30700636.93 30700636.98 0.0090 0.0086

Jupiter 79343-08-18 12:44 G 30700724.87 30700725.03 30700725.19 0.0530 0.0050

Neptune 79343-08-18 12:44 G 30700724.96 30700725.03 30700725.13 0.0090 0.0077 *

Saturn 79343-09-19 07:27 G 30700756.73 30700756.81 30700756.90 0.0268 0.0207

Neptune 79343-11-14 15:22 G 30700813.04 30700813.14 30700813.27 0.0090 0.0067

Saturn 79343-12-16 19:12 G 30700845.17 30700845.30 30700845.43 0.0268 0.0097

Neptune 79344-02-10 18:15 G 30700901.14 30700901.26 30700901.40 0.0090 0.0057

Saturn 79344-03-14 07:12 G 30700933.65 30700933.80 30700933.94 0.0269 0.0017

Neptune 79344-05-08 20:53 G 30700989.24 30700989.37 30700989.52 0.0090 0.0047

Saturn 79344-06-10 19:12 G 30701022.18 30701022.30 30701022.43 0.0269 0.0130

Neptune 79344-08-04 23:32 G 30701077.34 30701077.48 30701077.64 0.0090 0.0038

Saturn 79344-09-07 07:27 G 30701110.76 30701110.81 30701110.87 0.0269 0.0248

Neptune 79344-11-01 02:24 G 30701165.44 30701165.60 30701165.76 0.0090 0.0028

Neptune 79345-01-28 04:48 G 30701253.54 30701253.70 30701253.87 0.0090 0.0019

Neptune 79345-04-26 07:41 G 30701341.65 30701341.82 30701341.99 0.0090 0.0009

Neptune 79345-07-23 10:20 G 30701429.76 30701429.93 30701430.09 0.0090 0.0002

Neptune 79345-10-19 12:44 G 30701517.87 30701518.03 30701518.20 0.0090 0.0010

Neptune 79346-01-15 15:22 G 30701605.98 30701606.14 30701606.31 0.0090 0.0019

Neptune 79346-04-13 17:46 G 30701694.09 30701694.24 30701694.41 0.0090 0.0029

Neptune 79346-07-10 20:24 G 30701782.20 30701782.35 30701782.50 0.0090 0.0038

Neptune 79346-10-06 23:03 G 30701870.32 30701870.46 30701870.60 0.0090 0.0047

Neptune 79347-01-03 01:12 G 30701958.44 30701958.55 30701958.69 0.0090 0.0057

Neptune 79347-04-01 03:51 G 30702046.56 30702046.66 30702046.78 0.0090 0.0066

Neptune 79347-06-28 06:15 G 30702134.68 30702134.76 30702134.86 0.0090 0.0075

Neptune 79347-09-24 08:39 G 30702222.82 30702222.86 30702222.93 0.0090 0.0084

Moon 79348-12-08 13:12 G 30702663.97 30702664.05 30702664.14 0.2700 0.2079

Earth 79348-12-08 13:12 G 30702663.97 30702664.05 30702664.13 0.2707 0.2081 *

Jupiter 79349-04-05 07:41 G 30702781.68 30702781.82 30702781.96 0.0497 0.0102

Mars 79350-12-07 00:44 G 30703392.42 30703392.53 30703392.64 0.1682 0.0643

Moon 79351-06-08 13:27 G 30703575.94 30703576.06 30703576.18 0.2621 0.0795

Earth 79351-06-08 13:56 G 30703575.96 30703576.08 30703576.20 0.2625 0.0855 *

Mars 79351-10-20 00:00 G 30703709.35 30703709.50 30703709.65 0.1835 0.0670

Mars 79352-11-11 08:39 G 30704097.81 30704097.86 30704097.91 0.1705 0.1541

Jupiter 79355-06-06 11:46 G 30705034.84 30705034.99 30705035.14 0.0529 0.0184

Saturn 79358-01-27 12:29 G 30706000.96 30706001.02 30706001.11 0.0292 0.0260

Saturn 79358-04-26 09:36 G 30706089.74 30706089.90 30706090.06 0.0292 0.0081

Saturn 79358-07-24 06:00 G 30706178.59 30706178.75 30706178.91 0.0291 0.0093

Saturn 79358-10-21 01:41 G 30706267.50 30706267.57 30706267.64 0.0291 0.0262

Mars 79360-04-28 11:17 G 30706822.88 30706822.97 30706823.05 0.1677 0.1137

Jupiter 79361-01-22 10:48 G 30707091.82 30707091.95 30707092.09 0.0498 0.0071

Mars 79361-03-10 21:36 G 30707139.24 30707139.40 30707139.55 0.1842 0.0474

Mars 79362-04-03 18:29 G 30707528.17 30707528.27 30707528.36 0.1699 0.0989

Moon 79364-06-10 09:36 G 30708326.83 30708326.90 30708326.98 0.2624 0.2087

Earth 79364-06-10 10:34 G 30708326.88 30708326.94 30708327.01 0.2626 0.2251 *

Jupiter 79367-03-25 10:34 G 30709344.84 30709344.94 30709345.04 0.0528 0.0422

Jupiter 79367-06-23 12:29 G 30709435.00 30709435.02 30709435.05 0.0531 0.0524

Earth 79368-12-03 18:58 G 30709964.17 30709964.29 30709964.41 0.2708 0.1128

Moon 79368-12-03 20:10 G 30709964.21 30709964.34 30709964.47 0.2706 0.0901 *

Mars 79369-09-18 21:36 G 30710253.38 30710253.40 30710253.43 0.1672 0.1619

Pluto 79369-09-26 12:29 G 30710260.99 30710261.02 30710261.07 0.0081 0.0079

Pluto 79369-12-23 14:10 G 30710348.99 30710349.09 30710349.20 0.0081 0.0058

Pluto 79370-03-21 15:36 G 30710437.03 30710437.15 30710437.30 0.0081 0.0037

Pluto 79370-06-17 17:17 G 30710525.08 30710525.22 30710525.37 0.0081 0.0016

Mars 79370-07-31 18:44 G 30710569.21 30710569.28 30710569.35 0.1850 0.1653

Pluto 79370-09-13 18:58 G 30710613.14 30710613.29 30710613.44 0.0081 0.0005

Pluto 79370-12-10 20:24 G 30710701.21 30710701.35 30710701.50 0.0081 0.0026

Pluto 79371-03-08 21:51 G 30710789.29 30710789.41 30710789.54 0.0080 0.0046

Earth 79371-06-04 02:24 G 30710876.50 30710876.60 30710876.70 0.2625 0.1573

Moon 79371-06-04 02:53 G 30710876.52 30710876.62 30710876.72 0.2620 0.1441 *

Pluto 79371-06-04 23:32 G 30710877.40 30710877.48 30710877.57 0.0080 0.0067

Mars 79371-08-25 04:20 G 30710958.56 30710958.68 30710958.79 0.1693 0.0447

Uranus 79372-05-18 09:51 G 30711225.88 30711225.91 30711225.95 0.0144 0.0139

Uranus 79372-08-14 14:10 G 30711314.02 30711314.09 30711314.19 0.0144 0.0116

Jupiter 79372-11-10 14:39 G 30711401.99 30711402.11 30711402.24 0.0499 0.0228

Uranus 79372-11-10 18:44 G 30711402.18 30711402.28 30711402.40 0.0144 0.0093 *

Saturn 79373-02-05 10:34 G 30711488.87 30711488.94 30711489.01 0.0268 0.0233

Uranus 79373-02-06 23:17 G 30711490.35 30711490.47 30711490.60 0.0144 0.0069

Jupiter 79373-02-07 23:03 G 30711491.40 30711491.46 30711491.53 0.0496 0.0437

Saturn 79373-05-04 22:05 G 30711577.30 30711577.42 30711577.55 0.0268 0.0124

Uranus 79373-05-06 03:51 G 30711578.53 30711578.66 30711578.80 0.0144 0.0045

Saturn 79373-08-01 09:51 G 30711665.77 30711665.91 30711666.06 0.0268 0.0015

Uranus 79373-08-02 08:24 G 30711666.71 30711666.85 30711667.00 0.0144 0.0022

Saturn 79373-10-28 22:05 G 30711754.28 30711754.42 30711754.55 0.0268 0.0102

Uranus 79373-10-29 13:12 G 30711754.90 30711755.05 30711755.19 0.0144 0.0004

Saturn 79374-01-25 10:05 G 30711842.84 30711842.92 30711843.01 0.0269 0.0218

Uranus 79374-01-25 17:46 G 30711843.10 30711843.24 30711843.38 0.0144 0.0028

Uranus 79374-04-23 22:20 G 30711931.30 30711931.43 30711931.57 0.0144 0.0052

Uranus 79374-07-21 02:53 G 30712019.51 30712019.62 30712019.76 0.0144 0.0077

Uranus 79374-10-17 07:56 G 30712107.72 30712107.83 30712107.93 0.0144 0.0101

Uranus 79375-01-13 12:29 G 30712195.96 30712196.02 30712196.10 0.0144 0.0126

Venus 79376-08-14 19:27 G 30712775.19 30712775.31 30712775.43 0.3727 0.1652

Jupiter 79379-04-11 11:32 G 30713744.84 30713744.98 30713745.12 0.0531 0.0285

Mars 79381-01-14 14:24 G 30714388.98 30714389.10 30714389.22 0.1688 0.0090

Earth 79381-12-06 19:12 G 30714715.17 30714715.30 30714715.42 0.2707 0.0678

Moon 79381-12-06 19:56 G 30714715.20 30714715.33 30714715.46 0.2703 0.0713 *

Venus 79383-09-12 15:51 G 30715360.06 30715360.16 30715360.26 0.3645 0.1454

Moon 79384-06-05 22:48 G 30715627.32 30715627.45 30715627.57 0.2619 0.0275

Earth 79384-06-05 22:34 G 30715627.32 30715627.44 30715627.57 0.2625 0.0255 *

Jupiter 79384-08-29 18:44 G 30715712.20 30715712.28 30715712.37 0.0500 0.0382

Jupiter 79384-11-27 02:53 G 30715801.51 30715801.62 30715801.74 0.0497 0.0278

Saturn 79387-09-13 08:10 G 30716821.69 30716821.84 30716821.98 0.0292 0.0140

Saturn 79387-12-11 04:34 G 30716910.52 30716910.69 30716910.86 0.0291 0.0035

Saturn 79388-03-09 00:29 G 30716999.41 30716999.52 30716999.64 0.0291 0.0206

Venus 79389-03-28 08:53 G 30717383.76 30717383.87 30717383.97 0.3646 0.1316

Mars 79390-06-07 00:44 G 30717819.42 30717819.53 30717819.64 0.1682 0.0582

Jupiter 79391-01-28 11:03 G 30718054.80 30718054.96 30718055.12 0.0530 0.0058

Mars 79391-04-20 00:44 G 30718136.38 30718136.53 30718136.67 0.1835 0.0778

Mars 79392-05-12 08:39 G 30718524.82 30718524.86 30718524.89 0.1705 0.1600

Moon 79394-12-09 18:44 G 30719466.22 30719466.28 30719466.34 0.2700 0.2404

Earth 79394-12-09 18:44 G 30719466.23 30719466.28 30719466.34 0.2707 0.2406 *

Jupiter 79396-09-15 06:44 G 30720111.64 30720111.78 30720111.91 0.0497 0.0117

Moon 79397-06-08 18:29 G 30720378.15 30720378.27 30720378.38 0.2621 0.1058

Earth 79397-06-08 19:12 G 30720378.19 30720378.30 30720378.41 0.2625 0.1125 *

Mars 79399-10-28 11:03 G 30721249.87 30721249.96 30721250.05 0.1677 0.1078

Mars 79400-09-09 22:20 G 30721566.27 30721566.43 30721566.59 0.1842 0.0357

Mars 79401-10-03 18:29 G 30721955.17 30721955.27 30721955.36 0.1699 0.1049

Earth 79401-12-03 00:15 G 30722015.48 30722015.51 30722015.54 0.2708 0.2642

Moon 79401-12-03 01:12 G 30722015.50 30722015.55 30722015.61 0.2711 0.2456 *

Saturn 79402-09-22 22:48 G 30722309.35 30722309.45 30722309.56 0.0268 0.0169

Jupiter 79402-11-17 10:34 G 30722364.79 30722364.94 30722365.10 0.0530 0.0167

Saturn 79402-12-20 10:34 G 30722397.80 30722397.94 30722398.08 0.0268 0.0059

Saturn 79403-03-18 22:34 G 30722486.30 30722486.44 30722486.58 0.0269 0.0055

Saturn 79403-06-15 10:34 G 30722574.83 30722574.94 30722575.05 0.0269 0.0169

Earth 79404-06-02 11:32 G 30722927.97 30722927.98 30722927.99 0.2625 0.2611

Moon 79404-06-02 12:15 G 30722927.97 30722928.01 30722928.05 0.2624 0.2445 *

Jupiter 79408-07-05 10:20 G 30724421.79 30724421.93 30724422.07 0.0498 0.0045

Mars 79409-03-20 21:51 G 30724680.37 30724680.41 30724680.45 0.1672 0.1557

Mars 79410-01-30 19:12 G 30724996.22 30724996.30 30724996.39 0.1849 0.1543

Moon 79410-06-12 14:53 G 30725129.08 30725129.12 30725129.16 0.2625 0.2461

Earth 79410-06-12 15:51 G 30725129.13 30725129.16 30725129.19 0.2626 0.2528 *

Mars 79411-02-24 04:20 G 30725385.56 30725385.68 30725385.79 0.1693 0.0508

Jupiter 79414-09-05 09:51 G 30726674.80 30726674.91 30726675.01 0.0528 0.0398

Earth 79414-12-06 00:44 G 30726766.40 30726766.53 30726766.66 0.2708 0.0780

Moon 79414-12-06 01:56 G 30726766.45 30726766.58 30726766.71 0.2706 0.0742 *

Uranus 79415-02-28 16:34 G 30726851.10 30726851.19 30726851.28 0.0134 0.0113

Uranus 79415-05-27 22:05 G 30726939.29 30726939.42 30726939.54 0.0134 0.0090

Uranus 79415-08-24 03:22 G 30727027.50 30727027.64 30727027.79 0.0134 0.0068

Uranus 79415-11-20 08:53 G 30727115.71 30727115.87 30727116.03 0.0134 0.0045

Uranus 79416-02-16 14:24 G 30727203.93 30727204.10 30727204.27 0.0134 0.0022

Uranus 79416-05-14 19:41 G 30727292.15 30727292.32 30727292.49 0.0134 0.0001

Uranus 79416-08-11 00:58 G 30727380.38 30727380.54 30727380.71 0.0134 0.0022

Uranus 79416-11-07 06:15 G 30727468.60 30727468.76 30727468.92 0.0134 0.0044

Saturn 79417-01-31 05:32 G 30727553.62 30727553.73 30727553.86 0.0292 0.0208

Uranus 79417-02-03 11:32 G 30727556.84 30727556.98 30727557.12 0.0134 0.0066

Saturn 79417-04-30 02:24 G 30727642.44 30727642.60 30727642.77 0.0292 0.0030

Uranus 79417-05-02 16:34 G 30727645.07 30727645.19 30727645.32 0.0134 0.0088

Earth 79417-06-05 07:27 G 30727678.71 30727678.81 30727678.92 0.2625 0.1316

Moon 79417-06-05 07:56 G 30727678.73 30727678.83 30727678.94 0.2619 0.1333 *

Saturn 79417-07-27 22:34 G 30727731.30 30727731.44 30727731.59 0.0292 0.0144

Uranus 79417-07-29 21:36 G 30727733.32 30727733.40 30727733.50 0.0134 0.0110

Uranus 79417-10-26 02:53 G 30727821.59 30727821.62 30727821.65 0.0134 0.0131

Jupiter 79420-04-23 13:27 G 30728731.94 30728732.06 30728732.19 0.0499 0.0216

Mars 79420-07-16 14:24 G 30728815.98 30728816.10 30728816.22 0.1688 0.0026

Jupiter 79420-07-21 22:05 G 30728821.36 30728821.42 30728821.47 0.0496 0.0449

Neptune 79425-08-11 03:51 G 30730667.63 30730667.66 30730667.71 0.0088 0.0084

Neptune 79425-11-07 05:17 G 30730755.67 30730755.72 30730755.81 0.0088 0.0077

Neptune 79426-02-03 07:12 G 30730843.72 30730843.80 30730843.90 0.0088 0.0069

Neptune 79426-05-02 08:39 G 30730931.77 30730931.86 30730931.98 0.0088 0.0062

Neptune 79426-07-29 10:34 G 30731019.83 30731019.94 30731020.06 0.0088 0.0054

Jupiter 79426-09-22 11:03 G 30731074.83 30731074.96 30731075.09 0.0530 0.0317

Neptune 79426-10-25 12:29 G 30731107.89 30731108.02 30731108.14 0.0088 0.0046

Neptune 79427-01-21 13:56 G 30731195.96 30731196.08 30731196.22 0.0088 0.0039

Neptune 79427-04-19 15:51 G 30731284.02 30731284.16 30731284.30 0.0088 0.0031

Neptune 79427-07-16 17:32 G 30731372.09 30731372.23 30731372.37 0.0088 0.0023

Neptune 79427-10-12 19:12 G 30731460.16 30731460.30 30731460.45 0.0088 0.0016

Earth 79427-12-09 00:44 G 30731517.41 30731517.53 30731517.65 0.2707 0.1008

Moon 79427-12-09 01:12 G 30731517.43 30731517.55 30731517.68 0.2702 0.1140 *

Neptune 79428-01-08 21:08 G 30731548.23 30731548.38 30731548.53 0.0088 0.0008

Neptune 79428-04-05 22:48 G 30731636.30 30731636.45 30731636.60 0.0088 0.0000

Neptune 79428-07-03 00:29 G 30731724.37 30731724.52 30731724.67 0.0088 0.0008

Neptune 79428-09-29 02:10 G 30731812.45 30731812.59 30731812.74 0.0088 0.0016

Neptune 79428-12-26 04:05 G 30731900.53 30731900.67 30731900.82 0.0088 0.0024

Neptune 79429-03-24 05:46 G 30731988.61 30731988.74 30731988.89 0.0088 0.0032

Neptune 79429-06-20 07:27 G 30732076.69 30732076.81 30732076.95 0.0088 0.0040

Neptune 79429-09-16 09:08 G 30732164.77 30732164.88 30732165.02 0.0088 0.0048

Mars 79429-12-07 00:44 G 30732246.41 30732246.53 30732246.64 0.1682 0.0530

Neptune 79429-12-13 11:03 G 30732252.86 30732252.96 30732253.09 0.0088 0.0056

Neptune 79430-03-11 12:44 G 30732340.95 30732341.03 30732341.15 0.0088 0.0064

Neptune 79430-06-07 14:39 G 30732429.04 30732429.11 30732429.21 0.0088 0.0072

Moon 79430-06-08 03:51 G 30732429.53 30732429.66 30732429.78 0.2619 0.0110

Earth 79430-06-08 03:51 G 30732429.54 30732429.66 30732429.78 0.2625 0.0023 *

Neptune 79430-09-03 16:20 G 30732517.14 30732517.18 30732517.26 0.0088 0.0080

Mars 79430-10-20 01:12 G 30732563.41 30732563.55 30732563.69 0.1835 0.0878

Neptune 79430-11-30 18:29 G 30732605.27 30732605.27 30732605.29 0.0088 0.0087

Mars 79431-11-12 08:39 G 30732951.83 30732951.86 30732951.88 0.1705 0.1659

Saturn 79432-02-10 01:41 G 30733041.48 30733041.57 30733041.67 0.0267 0.0196

Jupiter 79432-02-10 17:17 G 30733042.14 30733042.22 30733042.32 0.0500 0.0375

Saturn 79432-05-08 13:27 G 30733129.93 30733130.06 30733130.19 0.0268 0.0086

Jupiter 79432-05-10 01:41 G 30733131.45 30733131.57 30733131.68 0.0497 0.0287

Saturn 79432-08-05 01:12 G 30733218.41 30733218.55 30733218.69 0.0268 0.0026

Saturn 79432-11-01 13:12 G 30733306.93 30733307.05 30733307.18 0.0268 0.0141

Saturn 79433-01-29 01:41 G 30733395.53 30733395.57 30733395.61 0.0269 0.0257

Venus 79433-03-22 19:27 G 30733448.18 30733448.31 30733448.45 0.3726 0.0297

Venus 79434-10-04 20:39 G 30734009.31 30734009.36 30734009.41 0.3644 0.3145

Jupiter 79438-07-11 09:36 G 30735384.74 30735384.90 30735385.07 0.0530 0.0075

Mars 79439-04-29 11:03 G 30735676.87 30735676.96 30735677.06 0.1677 0.1019

Mars 79440-03-10 23:17 G 30735993.31 30735993.47 30735993.62 0.1842 0.0240

Venus 79440-04-19 13:41 G 30736032.96 30736033.07 30736033.17 0.3645 0.0456

Moon 79440-12-11 00:15 G 30736268.50 30736268.51 30736268.53 0.2700 0.2669

Mars 79441-04-03 18:15 G 30736382.17 30736382.26 30736382.35 0.1699 0.1103

Moon 79443-06-10 23:32 G 30737180.38 30737180.48 30737180.59 0.2621 0.1279

Earth 79443-06-11 00:29 G 30737180.41 30737180.52 30737180.62 0.2625 0.1395 *

Jupiter 79444-02-27 05:32 G 30737441.59 30737441.73 30737441.86 0.0498 0.0129

Venus 79445-11-03 06:44 G 30738056.69 30738056.78 30738056.86 0.3646 0.2366

Saturn 79446-06-20 04:20 G 30738285.62 30738285.68 30738285.76 0.0292 0.0264

Saturn 79446-09-17 01:27 G 30738374.40 30738374.56 30738374.72 0.0292 0.0085

Saturn 79446-12-14 21:51 G 30738463.25 30738463.41 30738463.57 0.0291 0.0090

Saturn 79447-03-13 17:32 G 30738552.17 30738552.23 30738552.31 0.0291 0.0259

Earth 79447-12-04 06:00 G 30738817.68 30738817.75 30738817.82 0.2708 0.2289

Moon 79447-12-04 07:12 G 30738817.72 30738817.80 30738817.88 0.2709 0.2205 *

Mars 79448-09-18 21:36 G 30739107.35 30739107.40 30739107.45 0.1672 0.1498

Mars 79449-07-31 19:56 G 30739423.23 30739423.33 30739423.43 0.1849 0.1430

Jupiter 79450-04-29 09:08 G 30739694.72 30739694.88 30739695.03 0.0529 0.0157

Earth 79450-06-03 16:34 G 30739730.14 30739730.19 30739730.24 0.2625 0.2354

Moon 79450-06-03 17:32 G 30739730.17 30739730.23 30739730.28 0.2623 0.2318 *

Mars 79450-08-25 04:20 G 30739812.57 30739812.68 30739812.79 0.1693 0.0569

Jupiter 79455-12-16 09:08 G 30741751.74 30741751.88 30741752.02 0.0498 0.0034

Uranus 79456-06-08 17:32 G 30741927.18 30741927.23 30741927.29 0.0144 0.0130

Uranus 79456-09-04 21:51 G 30742015.33 30742015.41 30742015.52 0.0144 0.0108

Uranus 79456-12-02 02:39 G 30742103.49 30742103.61 30742103.72 0.0144 0.0084

Uranus 79457-02-28 06:58 G 30742191.66 30742191.79 30742191.93 0.0144 0.0060

Uranus 79457-05-27 11:32 G 30742279.84 30742279.98 30742280.12 0.0144 0.0036

Uranus 79457-08-23 16:05 G 30742368.03 30742368.17 30742368.32 0.0144 0.0013

Uranus 79457-11-19 20:53 G 30742456.22 30742456.37 30742456.51 0.0144 0.0013

Uranus 79458-02-16 01:27 G 30742544.42 30742544.56 30742544.70 0.0144 0.0036

Uranus 79458-05-15 06:00 G 30742632.62 30742632.75 30742632.89 0.0144 0.0061

Uranus 79458-08-11 10:34 G 30742720.83 30742720.94 30742721.07 0.0144 0.0086

Uranus 79458-11-07 15:36 G 30742809.05 30742809.15 30742809.24 0.0144 0.0110

Uranus 79459-02-03 20:10 G 30742897.30 30742897.34 30742897.40 0.0144 0.0135

Mars 79460-01-15 14:24 G 30743242.98 30743243.10 30743243.22 0.1688 0.0043

Earth 79460-12-06 06:29 G 30743568.63 30743568.77 30743568.90 0.2707 0.0447

Moon 79460-12-06 07:27 G 30743568.68 30743568.81 30743568.95 0.2705 0.0230 *

Saturn 79461-06-29 02:39 G 30743773.55 30743773.61 30743773.67 0.0268 0.0239

Saturn 79461-09-25 14:10 G 30743861.97 30743862.09 30743862.21 0.0268 0.0130

Saturn 79461-12-23 01:56 G 30743950.44 30743950.58 30743950.72 0.0268 0.0020

Jupiter 79462-02-15 08:24 G 30744004.74 30744004.85 30744004.96 0.0529 0.0384

Saturn 79462-03-21 13:56 G 30744038.95 30744039.08 30744039.21 0.0268 0.0094

Saturn 79462-06-18 01:56 G 30744127.50 30744127.58 30744127.68 0.0269 0.0210

Earth 79463-06-06 12:44 G 30744480.92 30744481.03 30744481.14 0.2625 0.1057

Moon 79463-06-06 13:12 G 30744480.93 30744481.05 30744481.16 0.2619 0.0929 *

Jupiter 79467-10-04 12:58 G 30746061.92 30746062.04 30746062.17 0.0499 0.0191

Jupiter 79468-01-01 21:22 G 30746151.35 30746151.39 30746151.43 0.0496 0.0473

Mars 79469-06-07 00:44 G 30746673.41 30746673.53 30746673.64 0.1682 0.0465

Mars 79470-04-20 01:56 G 30746990.45 30746990.58 30746990.72 0.1835 0.0990

Earth 79473-12-09 06:29 G 30748319.65 30748319.77 30748319.88 0.2707 0.1342

Moon 79473-12-09 06:44 G 30748319.66 30748319.78 30748319.90 0.2701 0.1291 *

Jupiter 79474-03-04 10:05 G 30748404.80 30748404.92 30748405.05 0.0530 0.0341

Saturn 79476-02-03 22:34 G 30749106.30 30749106.44 30749106.59 0.0292 0.0156

Saturn 79476-05-02 19:27 G 30749195.14 30749195.31 30749195.48 0.0292 0.0022

Moon 79476-06-08 08:39 G 30749231.74 30749231.86 30749231.99 0.2619 0.0183

Earth 79476-06-08 09:08 G 30749231.75 30749231.88 30749232.00 0.2625 0.0297 *

Saturn 79476-07-30 15:36 G 30749284.02 30749284.15 30749284.27 0.0292 0.0194

Mars 79478-10-28 11:03 G 30750103.87 30750103.96 30750104.06 0.1677 0.0961

Jupiter 79479-07-23 16:05 G 30750372.08 30750372.17 30750372.27 0.0500 0.0363

Mars 79479-09-09 23:32 G 30750420.32 30750420.48 30750420.64 0.1842 0.0145

Jupiter 79479-10-21 00:15 G 30750461.40 30750461.51 30750461.63 0.0497 0.0298

Mars 79480-10-02 18:15 G 30750809.18 30750809.26 30750809.35 0.1699 0.1167

Venus 79484-04-12 17:46 G 30752097.19 30752097.24 30752097.29 0.3727 0.3410

Jupiter 79485-12-21 09:22 G 30752714.73 30752714.89 30752715.05 0.0529 0.0108

Mars 79488-03-19 21:36 G 30753534.34 30753534.40 30753534.46 0.1672 0.1443

Mars 79489-01-29 20:53 G 30753850.26 30753850.37 30753850.49 0.1849 0.1304

Moon 79489-06-11 04:48 G 30753982.60 30753982.70 30753982.80 0.2622 0.1619

Earth 79489-06-11 05:32 G 30753982.64 30753982.73 30753982.83 0.2625 0.1664 *

Venus 79489-10-27 19:27 G 30754121.21 30754121.31 30754121.42 0.3726 0.2228

Mars 79490-02-23 04:20 G 30754239.57 30754239.68 30754239.79 0.1693 0.0625

Saturn 79490-11-16 05:32 G 30754505.72 30754505.73 30754505.76 0.0267 0.0264

Saturn 79491-02-12 17:03 G 30754594.10 30754594.21 30754594.33 0.0267 0.0157

Venus 79491-05-11 18:29 G 30754682.18 30754682.27 30754682.36 0.3644 0.2130

Saturn 79491-05-12 04:48 G 30754682.56 30754682.70 30754682.84 0.0268 0.0047

Saturn 79491-08-08 16:48 G 30754771.06 30754771.20 30754771.34 0.0268 0.0066

Jupiter 79491-08-09 04:05 G 30754771.53 30754771.67 30754771.80 0.0498 0.0136

Saturn 79491-11-05 04:48 G 30754859.60 30754859.70 30754859.81 0.0268 0.0182

Earth 79493-12-04 11:46 G 30755619.90 30755619.99 30755620.08 0.2708 0.1943

Moon 79493-12-04 12:58 G 30755619.94 30755620.04 30755620.14 0.2708 0.1780 *

Earth 79496-06-03 21:36 G 30756532.33 30756532.40 30756532.48 0.2625 0.2106

Moon 79496-06-03 22:34 G 30756532.36 30756532.44 30756532.51 0.2621 0.1988 *

Venus 79496-11-24 11:17 G 30756705.86 30756705.97 30756706.08 0.3645 0.0619

Jupiter 79497-10-09 07:41 G 30757024.67 30757024.82 30757024.98 0.0529 0.0140

Uranus 79498-12-22 18:58 G 30757464.24 30757464.29 30757464.35 0.0134 0.0126

Uranus 79499-03-21 00:29 G 30757552.42 30757552.52 30757552.63 0.0134 0.0103

Uranus 79499-06-17 06:00 G 30757640.62 30757640.75 30757640.89 0.0134 0.0080

Mars 79499-07-16 14:24 G 30757669.98 30757670.10 30757670.22 0.1688 0.0109

Uranus 79499-09-13 11:32 G 30757728.83 30757728.98 30757729.13 0.0134 0.0057

Uranus 79499-12-10 16:48 G 30757817.04 30757817.20 30757817.37 0.0134 0.0035

Uranus 79500-03-08 22:20 G 30757905.26 30757905.43 30757905.60 0.0134 0.0012

Uranus 79500-06-05 03:36 G 30757993.48 30757993.65 30757993.82 0.0134 0.0010

Uranus 79500-09-01 08:53 G 30758081.71 30758081.87 30758082.04 0.0134 0.0032

Uranus 79500-11-28 14:10 G 30758169.94 30758170.09 30758170.24 0.0134 0.0054

Uranus 79501-02-24 19:12 G 30758258.17 30758258.30 30758258.45 0.0134 0.0077

Uranus 79501-05-24 00:15 G 30758346.41 30758346.51 30758346.64 0.0134 0.0099

Uranus 79501-08-20 05:46 G 30758434.67 30758434.74 30758434.81 0.0134 0.0120

Venus 79502-06-11 04:34 G 30758729.65 30758729.69 30758729.72 0.3646 0.3429

Jupiter 79503-05-29 07:56 G 30759081.69 30759081.83 30759081.97 0.0498 0.0022

Saturn 79505-06-23 21:51 G 30759838.30 30759838.41 30759838.53 0.0292 0.0208

Saturn 79505-09-20 18:44 G 30759927.11 30759927.28 30759927.45 0.0292 0.0030

Saturn 79505-12-18 15:08 G 30760015.98 30760016.13 30760016.27 0.0292 0.0144

Earth 79506-12-08 12:00 G 30760370.87 30760371.00 30760371.14 0.2708 0.0111

Moon 79506-12-08 12:58 G 30760370.91 30760371.04 30760371.18 0.2704 0.0103 *

Neptune 79508-02-18 07:56 G 30760807.78 30760807.83 30760807.90 0.0090 0.0084

Neptune 79508-05-16 10:48 G 30760895.86 30760895.95 30760896.05 0.0090 0.0074

Neptune 79508-08-12 13:41 G 30760983.95 30760984.07 30760984.18 0.0090 0.0064

Neptune 79508-11-08 16:05 G 30761072.05 30761072.17 30761072.31 0.0090 0.0055

Mars 79508-12-07 00:44 G 30761100.41 30761100.53 30761100.64 0.1682 0.0406

Neptune 79509-02-04 18:44 G 30761160.14 30761160.28 30761160.44 0.0090 0.0045

Neptune 79509-05-03 21:36 G 30761248.25 30761248.40 30761248.56 0.0090 0.0035

Earth 79509-06-07 18:00 G 30761283.13 30761283.25 30761283.36 0.2625 0.0794

Moon 79509-06-07 18:15 G 30761283.14 30761283.26 30761283.38 0.2619 0.0813 *

Jupiter 79509-07-29 06:44 G 30761334.67 30761334.78 30761334.90 0.0528 0.0375

Neptune 79509-07-31 00:15 G 30761336.35 30761336.51 30761336.68 0.0090 0.0026

Mars 79509-10-20 02:39 G 30761417.48 30761417.61 30761417.73 0.1835 0.1089

Neptune 79509-10-27 02:53 G 30761424.46 30761424.62 30761424.79 0.0090 0.0016

Neptune 79510-01-23 05:32 G 30761512.56 30761512.73 30761512.90 0.0090 0.0007

Neptune 79510-04-21 08:10 G 30761600.67 30761600.84 30761601.01 0.0090 0.0003

Neptune 79510-07-18 10:48 G 30761688.78 30761688.95 30761689.12 0.0090 0.0012

Neptune 79510-10-14 13:27 G 30761776.90 30761777.06 30761777.22 0.0090 0.0022

Neptune 79511-01-10 15:51 G 30761865.01 30761865.16 30761865.32 0.0090 0.0031

Neptune 79511-04-08 18:15 G 30761953.12 30761953.26 30761953.42 0.0090 0.0041

Neptune 79511-07-05 20:53 G 30762041.24 30762041.37 30762041.52 0.0090 0.0050

Neptune 79511-10-01 23:32 G 30762129.36 30762129.48 30762129.61 0.0090 0.0059

Neptune 79511-12-29 01:41 G 30762217.48 30762217.57 30762217.69 0.0090 0.0069

Neptune 79512-03-26 04:20 G 30762305.61 30762305.68 30762305.77 0.0090 0.0078

Neptune 79512-06-22 06:44 G 30762393.76 30762393.78 30762393.84 0.0090 0.0087

Jupiter 79515-03-17 11:46 G 30763391.86 30763391.99 30763392.12 0.0499 0.0180

Jupiter 79515-06-14 20:10 G 30763481.31 30763481.34 30763481.37 0.0496 0.0484

Mars 79518-04-29 11:03 G 30764530.86 30764530.96 30764531.06 0.1677 0.0900

Mars 79519-03-12 00:29 G 30764847.36 30764847.52 30764847.68 0.1842 0.0027

Earth 79519-12-11 12:00 G 30765121.90 30765122.00 30765122.10 0.2707 0.1671

Moon 79519-12-11 12:15 G 30765121.91 30765122.01 30765122.11 0.2700 0.1790 *

Mars 79520-04-03 18:29 G 30765236.18 30765236.27 30765236.35 0.1699 0.1228

Saturn 79520-07-02 18:15 G 30765326.17 30765326.26 30765326.35 0.0267 0.0198

Saturn 79520-09-29 05:46 G 30765414.61 30765414.74 30765414.88 0.0268 0.0090

Saturn 79520-12-26 17:32 G 30765503.09 30765503.23 30765503.38 0.0268 0.0023

Saturn 79521-03-25 05:32 G 30765591.61 30765591.73 30765591.86 0.0268 0.0136

Saturn 79521-06-21 18:00 G 30765680.20 30765680.25 30765680.29 0.0269 0.0252

Jupiter 79521-08-15 08:39 G 30765734.75 30765734.86 30765734.99 0.0531 0.0352

Moon 79522-06-10 13:41 G 30766033.95 30766034.07 30766034.20 0.2619 0.0585

Earth 79522-06-10 14:10 G 30766033.97 30766034.09 30766034.22 0.2625 0.0559 *

Pluto 79526-06-11 16:05 G 30767496.12 30767496.17 30767496.27 0.0063 0.0056

Pluto 79526-09-07 17:17 G 30767584.11 30767584.22 30767584.34 0.0063 0.0045

Pluto 79526-12-04 18:00 G 30767672.13 30767672.25 30767672.40 0.0063 0.0035

Jupiter 79527-01-03 15:36 G 30767702.05 30767702.15 30767702.25 0.0499 0.0338

Pluto 79527-03-02 18:58 G 30767760.15 30767760.29 30767760.45 0.0063 0.0024

Jupiter 79527-04-02 23:46 G 30767791.38 30767791.49 30767791.60 0.0497 0.0322

Pluto 79527-05-29 19:56 G 30767848.18 30767848.33 30767848.50 0.0063 0.0014

Pluto 79527-08-25 20:53 G 30767936.21 30767936.37 30767936.54 0.0063 0.0003

Mars 79527-09-19 21:36 G 30767961.34 30767961.40 30767961.47 0.1672 0.1382

Pluto 79527-11-21 21:51 G 30768024.25 30768024.41 30768024.57 0.0063 0.0008

Pluto 79528-02-17 22:48 G 30768112.29 30768112.45 30768112.60 0.0063 0.0019

Pluto 79528-05-15 23:32 G 30768200.34 30768200.48 30768200.63 0.0063 0.0030

Mars 79528-07-31 21:22 G 30768277.27 30768277.39 30768277.51 0.1849 0.1205

Pluto 79528-08-12 00:00 G 30768288.40 30768288.50 30768288.65 0.0064 0.0041

Pluto 79528-11-08 01:27 G 30768376.46 30768376.56 30768376.65 0.0064 0.0051

Pluto 79529-02-04 01:56 G 30768464.56 30768464.58 30768464.63 0.0064 0.0062

Mars 79529-08-25 04:20 G 30768666.57 30768666.68 30768666.79 0.1693 0.0688

Jupiter 79533-06-03 08:24 G 30770044.69 30770044.85 30770045.01 0.0530 0.0129

Saturn 79534-11-10 18:44 G 30770570.24 30770570.28 30770570.33 0.0293 0.0281

Saturn 79535-02-07 15:51 G 30770659.01 30770659.16 30770659.33 0.0292 0.0101

Saturn 79535-05-07 12:29 G 30770747.86 30770748.02 30770748.19 0.0292 0.0076

Moon 79535-06-13 09:51 G 30770784.82 30770784.91 30770785.01 0.2623 0.1780

Earth 79535-06-13 10:48 G 30770784.87 30770784.95 30770785.03 0.2625 0.1937 *

Saturn 79535-08-04 08:24 G 30770836.77 30770836.85 30770836.94 0.0292 0.0247

Mars 79539-01-15 14:24 G 30772096.98 30772097.10 30772097.22 0.1688 0.0161

Jupiter 79539-01-20 02:39 G 30772101.48 30772101.61 30772101.75 0.0498 0.0146

Earth 79539-12-06 17:32 G 30772422.12 30772422.23 30772422.34 0.2708 0.1590

Moon 79539-12-06 18:44 G 30772422.17 30772422.28 30772422.39 0.2708 0.1456 *

Uranus 79540-06-30 00:58 G 30772628.48 30772628.54 30772628.63 0.0144 0.0123

Uranus 79540-09-26 05:46 G 30772716.64 30772716.74 30772716.84 0.0144 0.0098

Venus 79540-11-18 18:00 G 30772770.12 30772770.25 30772770.37 0.3727 0.1418

Uranus 79540-12-23 10:05 G 30772804.80 30772804.92 30772805.05 0.0144 0.0075

Uranus 79541-03-21 14:39 G 30772892.98 30772893.11 30772893.25 0.0144 0.0051

Uranus 79541-06-17 19:12 G 30772981.16 30772981.30 30772981.45 0.0144 0.0027

Uranus 79541-09-13 23:46 G 30773069.35 30773069.49 30773069.64 0.0144 0.0004

Uranus 79541-12-11 04:20 G 30773157.54 30773157.68 30773157.83 0.0144 0.0022

Uranus 79542-03-09 09:08 G 30773245.74 30773245.88 30773246.02 0.0144 0.0045

Uranus 79542-06-05 13:41 G 30773333.95 30773334.07 30773334.20 0.0144 0.0070

Earth 79542-06-06 02:53 G 30773334.53 30773334.62 30773334.71 0.2625 0.1849

Moon 79542-06-06 03:36 G 30773334.56 30773334.65 30773334.74 0.2621 0.1779 *

Uranus 79542-09-01 18:29 G 30773422.16 30773422.27 30773422.38 0.0144 0.0094

Uranus 79542-11-28 23:03 G 30773510.39 30773510.46 30773510.55 0.0144 0.0119

Jupiter 79545-03-22 07:27 G 30774354.65 30774354.81 30774354.97 0.0529 0.0106

Venus 79547-12-17 16:05 G 30775355.07 30775355.17 30775355.28 0.3644 0.1120

Mars 79548-06-07 00:29 G 30775527.41 30775527.52 30775527.64 0.1682 0.0356

Mars 79549-04-20 03:22 G 30775844.52 30775844.64 30775844.76 0.1835 0.1197

Saturn 79549-11-19 21:22 G 30776058.31 30776058.39 30776058.46 0.0267 0.0223

Saturn 79550-02-16 08:53 G 30776146.74 30776146.87 30776147.00 0.0267 0.0115

Saturn 79550-05-15 20:39 G 30776235.22 30776235.36 30776235.50 0.0268 0.0004

Saturn 79550-08-12 08:39 G 30776323.73 30776323.86 30776323.99 0.0268 0.0109

Jupiter 79550-11-08 06:15 G 30776411.62 30776411.76 30776411.90 0.0499 0.0022

Saturn 79550-11-08 20:39 G 30776412.29 30776412.36 30776412.44 0.0268 0.0225

Earth 79552-12-08 17:46 G 30777173.10 30777173.24 30777173.37 0.2708 0.0240

Moon 79552-12-08 18:29 G 30777173.14 30777173.27 30777173.40 0.2703 0.0372 *

Venus 79553-07-02 09:08 G 30777378.78 30777378.88 30777378.98 0.3645 0.1647

Moon 79555-06-08 23:17 G 30778085.34 30778085.47 30778085.59 0.2619 0.0476

Earth 79555-06-08 23:03 G 30778085.34 30778085.46 30778085.58 0.2625 0.0534 *

Jupiter 79557-01-08 05:32 G 30778664.61 30778664.73 30778664.85 0.0528 0.0358

Mars 79557-10-28 11:03 G 30778957.86 30778957.96 30778958.06 0.1677 0.0843

Mars 79558-09-10 01:12 G 30779274.39 30779274.55 30779274.71 0.1842 0.0092

Mars 79559-10-03 18:15 G 30779663.18 30779663.26 30779663.34 0.1699 0.1280

Jupiter 79562-08-27 10:20 G 30780721.80 30780721.93 30780722.06 0.0499 0.0174

Jupiter 79562-11-24 18:44 G 30780811.26 30780811.28 30780811.30 0.0497 0.0491

Saturn 79564-06-26 15:51 G 30781391.02 30781391.16 30781391.31 0.0292 0.0147

Saturn 79564-09-23 12:29 G 30781479.86 30781480.02 30781480.19 0.0292 0.0030

Saturn 79564-12-21 08:39 G 30781568.74 30781568.86 30781568.98 0.0292 0.0201

Earth 79565-12-11 17:32 G 30781924.15 30781924.23 30781924.32 0.2707 0.2001

Moon 79565-12-11 18:00 G 30781924.15 30781924.25 30781924.34 0.2700 0.1938 *

Mars 79567-03-20 21:36 G 30782388.33 30782388.40 30782388.47 0.1672 0.1322

Mars 79568-01-30 22:20 G 30782704.30 30782704.43 30782704.56 0.1849 0.1087

Moon 79568-06-10 18:58 G 30782836.17 30782836.29 30782836.41 0.2619 0.0696

Earth 79568-06-10 19:27 G 30782836.19 30782836.31 30782836.43 0.2625 0.0825 *

Jupiter 79569-01-25 06:58 G 30783064.67 30783064.79 30783064.91 0.0530 0.0357

Mars 79569-02-23 04:20 G 30783093.57 30783093.68 30783093.79 0.1693 0.0746

Jupiter 79574-06-15 14:10 G 30785031.99 30785032.09 30785032.20 0.0500 0.0331

Jupiter 79574-09-12 22:20 G 30785121.33 30785121.43 30785121.54 0.0497 0.0330

Mars 79578-07-16 14:24 G 30786523.98 30786524.10 30786524.22 0.1688 0.0222

Saturn 79579-04-08 22:34 G 30786790.43 30786790.44 30786790.47 0.0267 0.0262

Saturn 79579-07-06 10:05 G 30786878.81 30786878.92 30786879.04 0.0267 0.0155

Saturn 79579-10-02 21:51 G 30786967.27 30786967.41 30786967.55 0.0268 0.0045

Saturn 79579-12-30 09:36 G 30787055.77 30787055.90 30787056.04 0.0268 0.0068

Saturn 79580-03-27 21:36 G 30787144.30 30787144.40 30787144.51 0.0268 0.0182

Jupiter 79580-11-13 06:29 G 30787374.62 30787374.77 30787374.93 0.0530 0.0134

Moon 79581-06-13 15:08 G 30787587.06 30787587.13 30787587.20 0.2625 0.2187

Earth 79581-06-13 16:05 G 30787587.11 30787587.17 30787587.24 0.2626 0.2216 *

Uranus 79583-01-13 03:08 G 30788165.54 30788165.63 30788165.71 0.0134 0.0115

Uranus 79583-04-11 08:39 G 30788253.74 30788253.86 30788253.98 0.0134 0.0092

Uranus 79583-07-08 13:56 G 30788341.94 30788342.08 30788342.24 0.0134 0.0070

Uranus 79583-10-04 19:27 G 30788430.16 30788430.31 30788430.48 0.0134 0.0047

Uranus 79584-01-01 00:58 G 30788518.38 30788518.54 30788518.71 0.0134 0.0024

Uranus 79584-03-29 06:29 G 30788606.60 30788606.77 30788606.93 0.0134 0.0004

Uranus 79584-06-25 11:46 G 30788694.82 30788694.99 30788695.15 0.0134 0.0021

Uranus 79584-09-21 17:03 G 30788783.05 30788783.21 30788783.37 0.0134 0.0043

Uranus 79584-12-18 22:20 G 30788871.28 30788871.43 30788871.57 0.0134 0.0065

Uranus 79585-03-17 03:22 G 30788959.52 30788959.64 30788959.77 0.0134 0.0087

Uranus 79585-06-13 08:24 G 30789047.76 30789047.85 30789047.95 0.0134 0.0108

Uranus 79585-09-09 13:41 G 30789136.03 30789136.07 30789136.11 0.0134 0.0130

Earth 79585-12-06 23:17 G 30789224.35 30789224.47 30789224.59 0.2708 0.1243

Moon 79585-12-07 00:29 G 30789224.39 30789224.52 30789224.64 0.2708 0.1122 *

Jupiter 79586-04-03 18:15 G 30789342.23 30789342.26 30789342.28 0.0500 0.0489

Jupiter 79586-07-02 01:56 G 30789431.45 30789431.58 30789431.72 0.0498 0.0169

Mars 79587-12-07 00:29 G 30789954.41 30789954.52 30789954.64 0.1682 0.0297

Earth 79588-06-06 07:56 G 30790136.74 30790136.83 30790136.93 0.2625 0.1598

Moon 79588-06-06 08:39 G 30790136.76 30790136.86 30790136.96 0.2621 0.1515 *

Mars 79588-10-19 03:51 G 30790271.55 30790271.66 30790271.77 0.1835 0.1300

Neptune 79590-05-09 02:39 G 30790838.57 30790838.61 30790838.67 0.0088 0.0081

Neptune 79590-08-05 04:20 G 30790926.61 30790926.68 30790926.77 0.0088 0.0074

Neptune 79590-11-01 06:15 G 30791014.67 30791014.76 30791014.86 0.0088 0.0066

Neptune 79591-01-28 07:41 G 30791102.72 30791102.82 30791102.94 0.0088 0.0059

Neptune 79591-04-26 09:36 G 30791190.78 30791190.90 30791191.02 0.0088 0.0051

Neptune 79591-07-23 11:03 G 30791278.84 30791278.96 30791279.10 0.0088 0.0044

Neptune 79591-10-19 12:58 G 30791366.91 30791367.04 30791367.18 0.0088 0.0036

Neptune 79592-01-15 14:39 G 30791454.97 30791455.11 30791455.25 0.0088 0.0028

Neptune 79592-04-12 16:20 G 30791543.04 30791543.18 30791543.33 0.0088 0.0020

Neptune 79592-07-09 18:15 G 30791631.11 30791631.26 30791631.40 0.0088 0.0013

Jupiter 79592-09-01 06:15 G 30791684.60 30791684.76 30791684.92 0.0529 0.0091

Neptune 79592-10-05 19:56 G 30791719.18 30791719.33 30791719.48 0.0088 0.0005

Neptune 79593-01-01 21:36 G 30791807.25 30791807.40 30791807.55 0.0088 0.0003

Neptune 79593-03-30 23:17 G 30791895.33 30791895.47 30791895.62 0.0088 0.0011

Neptune 79593-06-27 00:58 G 30791983.40 30791983.54 30791983.69 0.0088 0.0019

Neptune 79593-09-23 02:39 G 30792071.48 30792071.61 30792071.76 0.0088 0.0027

Saturn 79593-11-13 12:44 G 30792122.92 30792123.03 30792123.15 0.0292 0.0220

Neptune 79593-12-20 04:34 G 30792159.56 30792159.69 30792159.83 0.0088 0.0034

Saturn 79594-02-10 09:51 G 30792211.74 30792211.91 30792212.08 0.0292 0.0041

Neptune 79594-03-18 06:29 G 30792247.64 30792247.77 30792247.90 0.0088 0.0042

Saturn 79594-05-10 06:15 G 30792300.61 30792300.76 30792300.91 0.0292 0.0134

Neptune 79594-06-14 08:10 G 30792335.72 30792335.84 30792335.97 0.0088 0.0050

Neptune 79594-09-10 09:51 G 30792423.81 30792423.91 30792424.03 0.0088 0.0058

Neptune 79594-12-07 11:46 G 30792511.90 30792511.99 30792512.09 0.0088 0.0066

Neptune 79595-03-05 13:27 G 30792599.99 30792600.06 30792600.15 0.0088 0.0074

Neptune 79595-06-01 15:22 G 30792688.10 30792688.14 30792688.20 0.0088 0.0082

Mars 79597-04-28 11:03 G 30793384.85 30793384.96 30793385.06 0.1677 0.0785

Venus 79597-06-25 18:00 G 30793443.12 30793443.25 30793443.39 0.3727 0.0576

Mars 79598-03-11 01:41 G 30793701.41 30793701.57 30793701.73 0.1842 0.0184

Jupiter 79598-04-20 05:03 G 30793741.57 30793741.71 30793741.85 0.0499 0.0018

Earth 79598-12-09 23:32 G 30793975.35 30793975.48 30793975.61 0.2708 0.0586

Moon 79598-12-10 00:15 G 30793975.38 30793975.51 30793975.64 0.2702 0.0641 *

Venus 79599-01-07 21:08 G 30794004.31 30794004.38 30794004.45 0.3644 0.2796

Mars 79599-04-03 18:15 G 30794090.19 30794090.26 30794090.34 0.1699 0.1345

Moon 79601-06-09 04:05 G 30794887.55 30794887.67 30794887.80 0.2618 0.0311

Earth 79601-06-09 04:20 G 30794887.55 30794887.68 30794887.80 0.2625 0.0277 *

Jupiter 79604-06-20 05:03 G 30795994.58 30795994.71 30795994.84 0.0528 0.0327

Venus 79604-07-23 13:56 G 30796027.97 30796028.08 30796028.19 0.3645 0.0099

Mars 79606-09-18 21:36 G 30796815.32 30796815.40 30796815.47 0.1672 0.1269

Mars 79607-07-31 23:03 G 30797131.32 30797131.46 30797131.60 0.1849 0.0968

Mars 79608-08-24 04:20 G 30797520.57 30797520.68 30797520.78 0.1693 0.0804

Saturn 79608-11-22 13:12 G 30797610.95 30797611.05 30797611.16 0.0267 0.0180

Saturn 79609-02-19 00:44 G 30797699.40 30797699.53 30797699.67 0.0268 0.0071

Saturn 79609-05-18 12:44 G 30797787.89 30797788.03 30797788.17 0.0268 0.0042

Saturn 79609-08-15 00:44 G 30797876.41 30797876.53 30797876.65 0.0268 0.0156

Venus 79610-02-06 06:58 G 30798051.72 30798051.79 30798051.86 0.3646 0.2694

Jupiter 79610-02-06 08:39 G 30798051.73 30798051.86 30798051.99 0.0499 0.0173 *

Jupiter 79610-05-06 17:03 G 30798141.19 30798141.21 30798141.22 0.0497 0.0493

Earth 79611-12-12 23:17 G 30798726.40 30798726.47 30798726.53 0.2707 0.2328

Moon 79611-12-12 23:17 G 30798726.41 30798726.47 30798726.53 0.2701 0.2383 *

Moon 79614-06-12 00:00 G 30799638.39 30799638.50 30799638.62 0.2620 0.1087

Earth 79614-06-12 00:44 G 30799638.41 30799638.53 30799638.64 0.2625 0.1092 *

Jupiter 79616-07-07 05:32 G 30800394.62 30800394.73 30800394.85 0.0530 0.0369

Pluto 79616-11-06 23:17 G 30800517.43 30800517.47 30800517.54 0.0081 0.0075

Pluto 79617-02-03 00:58 G 30800605.43 30800605.54 30800605.66 0.0081 0.0054

Pluto 79617-05-02 02:39 G 30800693.47 30800693.61 30800693.75 0.0081 0.0033

Pluto 79617-07-29 04:05 G 30800781.52 30800781.67 30800781.83 0.0081 0.0013

Pluto 79617-10-25 05:46 G 30800869.59 30800869.74 30800869.89 0.0081 0.0008

Mars 79618-01-14 14:10 G 30800950.98 30800951.09 30800951.21 0.1687 0.0284

Pluto 79618-01-21 07:12 G 30800957.66 30800957.80 30800957.95 0.0081 0.0029

Pluto 79618-04-19 08:39 G 30801045.75 30801045.86 30801045.99 0.0080 0.0049

Pluto 79618-07-16 10:20 G 30801133.86 30801133.93 30801134.00 0.0080 0.0070

Moon 79621-06-04 18:00 G 30802188.24 30802188.25 30802188.26 0.2623 0.2597

Jupiter 79621-11-25 12:29 G 30802361.92 30802362.02 30802362.13 0.0500 0.0329

Jupiter 79622-02-22 20:39 G 30802451.26 30802451.36 30802451.47 0.0497 0.0334

Saturn 79623-04-02 13:12 G 30802854.98 30802855.05 30802855.13 0.0293 0.0262

Saturn 79623-06-30 10:20 G 30802943.77 30802943.93 30802944.10 0.0292 0.0082

Saturn 79623-09-27 06:58 G 30803032.63 30803032.79 30803032.95 0.0292 0.0093

Saturn 79623-12-25 02:39 G 30803121.55 30803121.61 30803121.69 0.0292 0.0264

Uranus 79624-04-23 04:48 G 30803241.67 30803241.70 30803241.77 0.0144 0.0135

Uranus 79624-07-20 09:36 G 30803329.81 30803329.90 30803329.99 0.0144 0.0111

Uranus 79624-10-16 13:56 G 30803417.97 30803418.08 30803418.20 0.0144 0.0087

Uranus 79625-01-12 18:29 G 30803506.14 30803506.27 30803506.40 0.0144 0.0064

Uranus 79625-04-10 22:48 G 30803594.32 30803594.45 30803594.60 0.0144 0.0040

Uranus 79625-07-08 03:36 G 30803682.50 30803682.65 30803682.79 0.0144 0.0016

Uranus 79625-10-04 08:10 G 30803770.69 30803770.84 30803770.98 0.0144 0.0009

Uranus 79625-12-31 12:44 G 30803858.89 30803859.03 30803859.17 0.0144 0.0032

Uranus 79626-03-29 17:17 G 30803947.09 30803947.22 30803947.36 0.0144 0.0057

Uranus 79626-06-25 22:05 G 30804035.30 30804035.42 30804035.54 0.0144 0.0081

Uranus 79626-09-22 02:39 G 30804123.51 30804123.61 30804123.71 0.0144 0.0106

Uranus 79626-12-19 07:12 G 30804211.75 30804211.80 30804211.87 0.0144 0.0131

Mars 79627-06-07 00:44 G 30804381.41 30804381.53 30804381.64 0.1682 0.0235

Moon 79627-06-14 20:24 G 30804389.29 30804389.35 30804389.40 0.2625 0.2304

Earth 79627-06-14 21:22 G 30804389.35 30804389.39 30804389.42 0.2626 0.2494 *

Mars 79628-04-19 04:34 G 30804698.59 30804698.69 30804698.79 0.1835 0.1403

Jupiter 79628-04-25 04:34 G 30804704.54 30804704.69 30804704.85 0.0529 0.0136

Earth 79631-12-08 04:48 G 30806026.58 30806026.70 30806026.83 0.2708 0.0898

Moon 79631-12-08 06:00 G 30806026.62 30806026.75 30806026.88 0.2706 0.0722 *

Jupiter 79633-09-13 16:34 G 30806672.16 30806672.19 30806672.22 0.0500 0.0485

Jupiter 79633-12-12 00:29 G 30806761.39 30806761.52 30806761.65 0.0498 0.0173

Earth 79634-06-07 13:12 G 30806938.94 30806939.05 30806939.15 0.2625 0.1338

Moon 79634-06-07 13:41 G 30806938.97 30806939.07 30806939.18 0.2620 0.1254 *

Mars 79636-10-27 11:03 G 30807811.85 30807811.96 30807812.06 0.1677 0.0726

Mars 79637-09-09 02:24 G 30808128.44 30808128.60 30808128.76 0.1842 0.0298

Saturn 79638-04-11 14:53 G 30808343.04 30808343.12 30808343.21 0.0267 0.0216

Saturn 79638-07-09 02:24 G 30808431.48 30808431.60 30808431.73 0.0268 0.0107

Mars 79638-10-02 18:29 G 30808517.20 30808517.27 30808517.33 0.1699 0.1405

Saturn 79638-10-05 14:10 G 30808519.95 30808520.09 30808520.24 0.0268 0.0008

Saturn 79639-01-02 02:10 G 30808608.46 30808608.59 30808608.72 0.0268 0.0117

Saturn 79639-03-31 14:10 G 30808697.03 30808697.09 30808697.17 0.0268 0.0233

Jupiter 79640-02-12 04:05 G 30809014.50 30809014.67 30809014.83 0.0529 0.0094

Earth 79644-12-10 05:03 G 30810777.59 30810777.71 30810777.84 0.2708 0.0918

Moon 79644-12-10 05:46 G 30810777.62 30810777.74 30810777.87 0.2702 0.0994 *

Jupiter 79645-09-30 04:20 G 30811071.54 30811071.68 30811071.82 0.0498 0.0020

Mars 79646-03-19 21:36 G 30811242.32 30811242.40 30811242.48 0.1672 0.1207

Mars 79647-01-29 23:32 G 30811558.34 30811558.48 30811558.63 0.1849 0.0865

Moon 79647-06-10 09:22 G 30811689.76 30811689.89 30811690.01 0.2618 0.0092

Earth 79647-06-10 09:22 G 30811689.77 30811689.89 30811690.01 0.2625 0.0020 *

Mars 79648-02-23 04:20 G 30811947.57 30811947.68 30811947.78 0.1693 0.0864

Venus 79648-07-16 16:20 G 30812092.11 30812092.18 30812092.24 0.3728 0.3173

Jupiter 79651-12-01 03:36 G 30813324.51 30813324.65 30813324.78 0.0528 0.0317

Saturn 79652-11-16 07:41 G 30813675.68 30813675.82 30813675.97 0.0292 0.0151

Saturn 79653-02-13 04:34 G 30813764.52 30813764.69 30813764.86 0.0292 0.0026

Saturn 79653-05-13 00:44 G 30813853.41 30813853.53 30813853.65 0.0292 0.0198

Venus 79654-01-30 18:15 G 30814116.16 30814116.26 30814116.36 0.3727 0.2501

Venus 79655-08-14 18:44 G 30814677.19 30814677.28 30814677.38 0.3644 0.1795

Mars 79657-07-15 14:24 G 30815377.98 30815378.10 30815378.22 0.1688 0.0338

Jupiter 79657-07-19 07:12 G 30815381.67 30815381.80 30815381.93 0.0499 0.0167

Moon 79657-12-13 04:34 G 30815528.66 30815528.69 30815528.73 0.2701 0.2588

Earth 79657-12-13 04:48 G 30815528.68 30815528.70 30815528.73 0.2707 0.2661 *

Moon 79660-06-12 05:03 G 30816440.60 30816440.71 30816440.82 0.2622 0.1244

Earth 79660-06-12 05:46 G 30816440.64 30816440.74 30816440.85 0.2625 0.1362 *

Venus 79661-02-27 11:46 G 30816700.88 30816700.99 30816701.09 0.3645 0.0938

Jupiter 79663-12-18 04:48 G 30817724.60 30817724.70 30817724.81 0.0530 0.0397

Earth 79664-12-05 10:05 G 30818077.86 30818077.92 30818077.98 0.2708 0.2420

Moon 79664-12-05 11:17 G 30818077.89 30818077.97 30818078.04 0.2711 0.2198 *

Uranus 79666-11-06 05:17 G 30818778.69 30818778.72 30818778.78 0.0134 0.0128

Mars 79666-12-06 00:29 G 30818808.40 30818808.52 30818808.64 0.1682 0.0177

Uranus 79667-02-02 11:03 G 30818866.86 30818866.96 30818867.07 0.0134 0.0105

Uranus 79667-05-01 16:34 G 30818955.06 30818955.19 30818955.33 0.0134 0.0082

Earth 79667-06-05 22:20 G 30818990.38 30818990.43 30818990.48 0.2625 0.2384

Moon 79667-06-05 23:03 G 30818990.40 30818990.46 30818990.53 0.2623 0.2214 *

Uranus 79667-07-28 22:05 G 30819043.27 30819043.42 30819043.58 0.0134 0.0059

Saturn 79667-08-29 18:15 G 30819075.20 30819075.26 30819075.32 0.0267 0.0240

Mars 79667-10-19 05:17 G 30819125.63 30819125.72 30819125.81 0.1835 0.1504

Uranus 79667-10-25 03:36 G 30819131.49 30819131.65 30819131.81 0.0134 0.0037

Saturn 79667-11-26 05:46 G 30819163.61 30819163.74 30819163.86 0.0268 0.0132

Uranus 79668-01-21 08:53 G 30819219.71 30819219.87 30819220.04 0.0134 0.0015

Saturn 79668-02-22 17:17 G 30819252.08 30819252.22 30819252.36 0.0268 0.0022

Uranus 79668-04-18 14:24 G 30819307.93 30819308.10 30819308.27 0.0134 0.0008

Saturn 79668-05-21 05:17 G 30819340.59 30819340.72 30819340.85 0.0268 0.0092

Uranus 79668-07-15 19:41 G 30819396.16 30819396.32 30819396.48 0.0134 0.0031

Saturn 79668-08-17 17:17 G 30819429.14 30819429.22 30819429.32 0.0268 0.0207

Uranus 79668-10-12 00:58 G 30819484.39 30819484.54 30819484.69 0.0134 0.0053

Uranus 79669-01-08 06:15 G 30819572.62 30819572.76 30819572.90 0.0134 0.0075

Uranus 79669-04-06 11:17 G 30819660.86 30819660.97 30819661.09 0.0134 0.0096

Jupiter 79669-05-07 10:48 G 30819691.85 30819691.95 30819692.05 0.0500 0.0331

Uranus 79669-07-03 16:20 G 30819749.11 30819749.18 30819749.27 0.0134 0.0118

Jupiter 79669-08-04 18:58 G 30819781.18 30819781.29 30819781.39 0.0497 0.0332

Neptune 79672-11-14 05:32 G 30820978.67 30820978.73 30820978.81 0.0090 0.0082

Neptune 79673-02-10 08:24 G 30821066.76 30821066.85 30821066.96 0.0090 0.0072

Neptune 79673-05-09 10:48 G 30821154.85 30821154.95 30821155.09 0.0090 0.0063

Neptune 79673-08-05 13:41 G 30821242.94 30821243.07 30821243.22 0.0090 0.0053

Neptune 79673-11-01 16:34 G 30821331.04 30821331.19 30821331.34 0.0090 0.0043

Neptune 79674-01-28 19:12 G 30821419.15 30821419.30 30821419.46 0.0090 0.0033

Neptune 79674-04-26 21:51 G 30821507.25 30821507.41 30821507.58 0.0090 0.0024

Neptune 79674-07-24 00:44 G 30821595.36 30821595.53 30821595.69 0.0090 0.0014

Neptune 79674-10-20 03:22 G 30821683.47 30821683.64 30821683.81 0.0090 0.0005

Neptune 79675-01-16 05:46 G 30821771.58 30821771.74 30821771.91 0.0090 0.0006

Neptune 79675-04-14 08:24 G 30821859.69 30821859.85 30821860.02 0.0090 0.0015

Neptune 79675-07-11 11:03 G 30821947.80 30821947.96 30821948.12 0.0090 0.0024

Jupiter 79675-10-06 03:08 G 30822034.47 30822034.63 30822034.78 0.0529 0.0146

Neptune 79675-10-07 13:27 G 30822035.92 30822036.06 30822036.23 0.0090 0.0034

Neptune 79676-01-03 16:05 G 30822124.03 30822124.17 30822124.32 0.0090 0.0043

Neptune 79676-03-31 18:44 G 30822212.15 30822212.28 30822212.42 0.0090 0.0052

Mars 79676-04-27 11:03 G 30822238.85 30822238.96 30822239.07 0.1677 0.0668

Neptune 79676-06-27 21:22 G 30822300.27 30822300.39 30822300.51 0.0090 0.0061

Neptune 79676-09-23 23:32 G 30822388.39 30822388.48 30822388.60 0.0090 0.0071

Neptune 79676-12-21 02:10 G 30822476.53 30822476.59 30822476.68 0.0090 0.0080

Mars 79677-03-10 03:22 G 30822555.48 30822555.64 30822555.79 0.1842 0.0416

Neptune 79677-03-19 04:34 G 30822564.68 30822564.69 30822564.73 0.0090 0.0089

Earth 79677-12-08 10:34 G 30822828.81 30822828.94 30822829.07 0.2708 0.0550

Moon 79677-12-08 11:46 G 30822828.85 30822828.99 30822829.12 0.2704 0.0515 *

Mars 79678-04-02 18:15 G 30822944.20 30822944.26 30822944.32 0.1699 0.1457

Earth 79680-06-07 18:15 G 30823741.15 30823741.26 30823741.38 0.2625 0.1082

Moon 79680-06-07 18:44 G 30823741.17 30823741.28 30823741.39 0.2619 0.1078 *

Jupiter 79681-02-23 14:39 G 30824002.09 30824002.11 30824002.15 0.0501 0.0487

Jupiter 79681-05-23 22:34 G 30824091.31 30824091.44 30824091.58 0.0498 0.0172

Saturn 79682-04-05 08:53 G 30824407.74 30824407.87 30824408.00 0.0293 0.0189

Saturn 79682-07-03 05:46 G 30824496.57 30824496.74 30824496.91 0.0292 0.0011

Saturn 79682-09-30 01:56 G 30824585.45 30824585.58 30824585.72 0.0292 0.0163

Mars 79685-09-17 21:36 G 30825669.31 30825669.40 30825669.48 0.1672 0.1149

Mars 79686-07-31 00:15 G 30825985.37 30825985.51 30825985.66 0.1849 0.0754

Jupiter 79687-07-25 01:56 G 30826344.42 30826344.58 30826344.74 0.0529 0.0094

Mars 79687-08-24 04:20 G 30826374.58 30826374.68 30826374.78 0.1693 0.0924

Earth 79690-12-11 10:48 G 30827579.83 30827579.95 30827580.07 0.2707 0.1255

Moon 79690-12-11 11:17 G 30827579.86 30827579.97 30827580.09 0.2702 0.1335 *

Jupiter 79693-03-12 02:24 G 30828401.46 30828401.60 30828401.74 0.0498 0.0013

Moon 79693-06-10 14:24 G 30828491.98 30828492.10 30828492.22 0.2618 0.0247

Earth 79693-06-10 14:39 G 30828491.98 30828492.11 30828492.23 0.2625 0.0262 *

Mars 79695-02-08 08:10 G 30829099.81 30829099.84 30829099.86 0.1667 0.1619

Mars 79697-01-13 14:24 G 30829804.98 30829805.10 30829805.21 0.1687 0.0398

Saturn 79697-04-14 07:41 G 30829895.71 30829895.82 30829895.93 0.0267 0.0165

Saturn 79697-07-11 19:27 G 30829984.17 30829984.31 30829984.44 0.0268 0.0056

Saturn 79697-10-08 07:12 G 30830072.66 30830072.80 30830072.94 0.0268 0.0057

Saturn 79698-01-04 18:58 G 30830161.19 30830161.29 30830161.41 0.0268 0.0172

Jupiter 79699-05-13 00:44 G 30830654.41 30830654.53 30830654.67 0.0528 0.0327

Jupiter 79704-12-30 06:15 G 30832711.63 30832711.76 30832711.89 0.0499 0.0150

Venus 79705-02-21 16:20 G 30832765.05 30832765.18 30832765.31 0.3728 0.1168

Mars 79706-06-07 00:29 G 30833235.40 30833235.52 30833235.64 0.1682 0.0125

Moon 79706-06-14 10:20 G 30833242.82 30833242.93 30833243.03 0.2623 0.1551

Earth 79706-06-14 11:03 G 30833242.86 30833242.96 30833243.06 0.2625 0.1633 *

Venus 79706-09-05 23:46 G 30833326.46 30833326.49 30833326.52 0.3643 0.3459

Mars 79707-04-20 06:00 G 30833552.68 30833552.75 30833552.82 0.1835 0.1609

Uranus 79708-05-14 12:44 G 30833942.97 30833943.03 30833943.11 0.0144 0.0125

Uranus 79708-08-10 17:17 G 30834031.12 30834031.22 30834031.32 0.0144 0.0102

Uranus 79708-11-06 21:36 G 30834119.29 30834119.40 30834119.53 0.0144 0.0078

Uranus 79709-02-03 02:10 G 30834207.46 30834207.59 30834207.73 0.0144 0.0055

Uranus 79709-05-02 06:44 G 30834295.64 30834295.78 30834295.92 0.0144 0.0031

Uranus 79709-07-29 11:17 G 30834383.83 30834383.97 30834384.12 0.0144 0.0007

Uranus 79709-10-25 15:51 G 30834472.02 30834472.16 30834472.31 0.0144 0.0018

Uranus 79710-01-21 20:24 G 30834560.21 30834560.35 30834560.49 0.0144 0.0042

Uranus 79710-04-20 00:58 G 30834648.42 30834648.54 30834648.68 0.0144 0.0067

Uranus 79710-07-17 05:32 G 30834736.63 30834736.73 30834736.86 0.0144 0.0091

Uranus 79710-10-13 10:34 G 30834824.85 30834824.94 30834825.03 0.0144 0.0115

Earth 79710-12-07 15:51 G 30834880.07 30834880.16 30834880.25 0.2708 0.2061

Moon 79710-12-07 17:03 G 30834880.12 30834880.21 30834880.30 0.2710 0.2025 *

Uranus 79711-01-09 15:08 G 30834913.11 30834913.13 30834913.17 0.0144 0.0140

Jupiter 79711-05-31 02:53 G 30835054.52 30835054.62 30835054.73 0.0530 0.0402

Saturn 79711-08-24 06:15 G 30835139.68 30835139.76 30835139.84 0.0292 0.0257

Saturn 79711-11-21 03:22 G 30835228.48 30835228.64 30835228.80 0.0292 0.0076

Saturn 79712-02-18 00:00 G 30835317.34 30835317.50 30835317.65 0.0292 0.0099

Venus 79712-03-21 16:34 G 30835350.08 30835350.19 30835350.29 0.3644 0.0801

Saturn 79712-05-16 19:41 G 30835406.27 30835406.32 30835406.39 0.0291 0.0270

Earth 79713-06-07 03:22 G 30835792.57 30835792.64 30835792.71 0.2625 0.2128

Moon 79713-06-07 04:20 G 30835792.61 30835792.68 30835792.75 0.2623 0.2106 *

Mars 79715-10-28 11:03 G 30836665.85 30836665.96 30836666.07 0.1677 0.0613

Mars 79716-09-09 03:36 G 30836982.50 30836982.65 30836982.81 0.1842 0.0505

Jupiter 79716-10-18 09:08 G 30837021.78 30837021.88 30837021.99 0.0500 0.0327

Jupiter 79717-01-15 17:17 G 30837111.11 30837111.22 30837111.32 0.0497 0.0335

Mars 79717-10-02 18:15 G 30837371.21 30837371.26 30837371.32 0.1699 0.1522

Venus 79717-10-05 09:22 G 30837373.80 30837373.89 30837373.99 0.3645 0.1970

Jupiter 79723-03-19 02:10 G 30839364.43 30839364.59 30839364.74 0.0529 0.0168

Earth 79723-12-10 16:20 G 30839631.05 30839631.18 30839631.31 0.2708 0.0206

Moon 79723-12-10 17:17 G 30839631.09 30839631.22 30839631.36 0.2703 0.0020 *

Mars 79725-03-19 21:22 G 30840096.30 30840096.39 30840096.48 0.1672 0.1096

Mars 79726-01-30 01:12 G 30840412.40 30840412.55 30840412.70 0.1849 0.0630

Earth 79726-06-09 23:32 G 30840543.36 30840543.48 30840543.59 0.2625 0.0828

Moon 79726-06-09 23:46 G 30840543.37 30840543.49 30840543.61 0.2618 0.0733 *

Saturn 79726-09-02 10:48 G 30840627.85 30840627.95 30840628.05 0.0267 0.0189

Saturn 79726-11-29 22:20 G 30840716.30 30840716.43 30840716.57 0.0268 0.0080

Mars 79727-02-23 04:20 G 30840801.58 30840801.68 30840801.77 0.1693 0.0979

Saturn 79727-02-26 10:05 G 30840804.78 30840804.92 30840805.07 0.0268 0.0033

Saturn 79727-05-25 22:05 G 30840893.31 30840893.42 30840893.55 0.0268 0.0146

Saturn 79727-08-22 10:20 G 30840981.91 30840981.93 30840981.96 0.0269 0.0262

Jupiter 79728-08-06 12:44 G 30841332.01 30841332.03 30841332.06 0.0501 0.0491

Jupiter 79728-11-03 20:39 G 30841421.23 30841421.36 30841421.49 0.0498 0.0167

Mars 79734-08-10 08:10 G 30843526.80 30843526.84 30843526.88 0.1667 0.1560

Jupiter 79735-01-05 00:00 G 30843674.34 30843674.50 30843674.66 0.0528 0.0088

Mars 79735-06-21 21:36 G 30843842.39 30843842.40 30843842.41 0.1856 0.1848

Mars 79736-07-15 14:24 G 30844231.98 30844232.10 30844232.21 0.1688 0.0457

Earth 79736-12-12 16:20 G 30844382.08 30844382.18 30844382.29 0.2707 0.1589

Moon 79736-12-12 16:48 G 30844382.09 30844382.20 30844382.31 0.2701 0.1575 *

Moon 79739-06-12 19:27 G 30845294.19 30845294.31 30845294.43 0.2619 0.0453

Earth 79739-06-12 19:41 G 30845294.20 30845294.32 30845294.44 0.2625 0.0523 *

Jupiter 79740-08-23 00:29 G 30845731.38 30845731.52 30845731.66 0.0499 0.0007

Saturn 79741-01-10 07:56 G 30845871.81 30845871.83 30845871.86 0.0293 0.0289

Saturn 79741-04-09 05:03 G 30845960.56 30845960.71 30845960.87 0.0293 0.0108

Saturn 79741-07-07 01:56 G 30846049.41 30846049.58 30846049.74 0.0292 0.0069

Saturn 79741-10-03 21:51 G 30846138.32 30846138.41 30846138.51 0.0292 0.0240

Mars 79745-12-06 00:29 G 30847662.40 30847662.52 30847662.64 0.1682 0.0071

Mars 79746-10-19 06:29 G 30847979.72 30847979.77 30847979.83 0.1835 0.1708

Jupiter 79746-10-23 22:34 G 30847984.31 30847984.44 30847984.57 0.0528 0.0330

Uranus 79750-11-27 13:41 G 30849479.99 30849480.07 30849480.15 0.0134 0.0117

Uranus 79751-02-23 19:12 G 30849568.18 30849568.30 30849568.42 0.0134 0.0094

Uranus 79751-05-23 00:29 G 30849656.38 30849656.52 30849656.67 0.0134 0.0072

Uranus 79751-08-19 06:00 G 30849744.60 30849744.75 30849744.91 0.0134 0.0049

Uranus 79751-11-15 11:32 G 30849832.82 30849832.98 30849833.15 0.0134 0.0026

Uranus 79752-02-11 17:03 G 30849921.04 30849921.21 30849921.38 0.0134 0.0005

Uranus 79752-05-09 22:20 G 30850009.26 30850009.43 30850009.60 0.0134 0.0019

Jupiter 79752-06-11 04:20 G 30850041.55 30850041.68 30850041.81 0.0499 0.0152

Moon 79752-06-14 15:22 G 30850045.05 30850045.14 30850045.23 0.2623 0.1806

Earth 79752-06-14 16:20 G 30850045.10 30850045.18 30850045.26 0.2625 0.1909 *

Uranus 79752-08-06 03:22 G 30850097.49 30850097.64 30850097.81 0.0134 0.0041

Uranus 79752-11-02 08:39 G 30850185.72 30850185.86 30850186.02 0.0134 0.0063

Uranus 79753-01-29 14:10 G 30850273.96 30850274.09 30850274.22 0.0134 0.0085

Uranus 79753-04-27 19:12 G 30850362.20 30850362.30 30850362.40 0.0134 0.0106

Uranus 79753-07-25 00:00 G 30850450.47 30850450.50 30850450.57 0.0134 0.0129

Neptune 79754-11-07 23:46 G 30850921.48 30850921.49 30850921.53 0.0088 0.0086

Neptune 79755-02-04 01:27 G 30851009.51 30851009.56 30851009.63 0.0088 0.0078

Mars 79755-04-28 11:03 G 30851092.84 30851092.96 30851093.07 0.1677 0.0553

Neptune 79755-05-03 03:08 G 30851097.56 30851097.63 30851097.72 0.0088 0.0071

Neptune 79755-07-30 04:48 G 30851185.61 30851185.70 30851185.81 0.0088 0.0063

Neptune 79755-10-26 06:29 G 30851273.67 30851273.77 30851273.89 0.0088 0.0056

Saturn 79756-01-20 13:12 G 30851359.98 30851360.05 30851360.13 0.0267 0.0219

Neptune 79756-01-22 08:10 G 30851361.73 30851361.84 30851361.97 0.0088 0.0048

Mars 79756-03-10 04:34 G 30851409.54 30851409.69 30851409.84 0.1842 0.0621

Saturn 79756-04-18 00:44 G 30851448.41 30851448.53 30851448.66 0.0268 0.0110

Neptune 79756-04-19 09:51 G 30851449.79 30851449.91 30851450.05 0.0088 0.0041

Saturn 79756-07-15 12:29 G 30851536.88 30851537.02 30851537.16 0.0268 0.0003

Neptune 79756-07-16 11:46 G 30851537.86 30851537.99 30851538.13 0.0088 0.0033

Saturn 79756-10-12 00:29 G 30851625.39 30851625.52 30851625.65 0.0268 0.0114

Neptune 79756-10-12 13:27 G 30851625.92 30851626.06 30851626.20 0.0088 0.0025

Earth 79756-12-07 21:36 G 30851682.30 30851682.40 30851682.50 0.2708 0.1713

Moon 79756-12-07 22:48 G 30851682.34 30851682.45 30851682.56 0.2708 0.1506 *

Saturn 79757-01-08 12:29 G 30851713.95 30851714.02 30851714.10 0.0268 0.0229

Neptune 79757-01-08 15:08 G 30851713.99 30851714.13 30851714.28 0.0088 0.0018 *

Mars 79757-04-02 18:29 G 30851798.23 30851798.27 30851798.31 0.1699 0.1581

Neptune 79757-04-06 16:48 G 30851802.06 30851802.20 30851802.35 0.0088 0.0010

Neptune 79757-07-03 18:44 G 30851890.13 30851890.28 30851890.43 0.0088 0.0002

Neptune 79757-09-29 20:24 G 30851978.20 30851978.35 30851978.50 0.0088 0.0006

Neptune 79757-12-26 22:05 G 30852066.28 30852066.42 30852066.57 0.0088 0.0013

Neptune 79758-03-24 23:46 G 30852154.35 30852154.49 30852154.64 0.0088 0.0021

Neptune 79758-06-21 01:41 G 30852242.43 30852242.57 30852242.71 0.0088 0.0029

Neptune 79758-09-17 03:22 G 30852330.51 30852330.64 30852330.78 0.0088 0.0037

Jupiter 79758-11-10 00:15 G 30852384.40 30852384.51 30852384.62 0.0530 0.0387

Neptune 79758-12-14 05:03 G 30852418.59 30852418.71 30852418.85 0.0088 0.0045

Neptune 79759-03-12 06:44 G 30852506.67 30852506.78 30852506.91 0.0088 0.0053

Neptune 79759-06-08 08:39 G 30852594.76 30852594.86 30852594.97 0.0088 0.0061

Earth 79759-06-08 08:39 G 30852594.77 30852594.86 30852594.94 0.2625 0.1878 *

Moon 79759-06-08 09:22 G 30852594.80 30852594.89 30852594.98 0.2622 0.1727 *

Neptune 79759-09-04 10:20 G 30852682.85 30852682.93 30852683.03 0.0088 0.0069

Neptune 79759-12-01 12:00 G 30852770.95 30852771.00 30852771.09 0.0088 0.0077

Neptune 79760-02-27 13:56 G 30852859.06 30852859.08 30852859.13 0.0088 0.0085

Venus 79761-09-28 16:34 G 30853438.06 30853438.19 30853438.32 0.3727 0.0799

Venus 79763-04-12 21:22 G 30853999.31 30853999.39 30853999.47 0.3643 0.2471

Jupiter 79764-03-30 08:10 G 30854351.73 30854351.84 30854351.95 0.0500 0.0313

Jupiter 79764-06-27 16:05 G 30854441.07 30854441.17 30854441.27 0.0497 0.0349

Mars 79764-09-17 21:22 G 30854523.30 30854523.39 30854523.49 0.1672 0.1036

Mars 79765-07-31 01:41 G 30854839.42 30854839.57 30854839.72 0.1849 0.0535

Mars 79766-08-24 04:20 G 30855228.58 30855228.68 30855228.77 0.1693 0.1040

Venus 79768-10-26 14:10 G 30856022.98 30856023.09 30856023.20 0.3644 0.0257

Earth 79769-12-10 22:05 G 30856433.28 30856433.42 30856433.55 0.2708 0.0146

Moon 79769-12-10 23:03 G 30856433.33 30856433.46 30856433.60 0.2704 0.0163 *

Saturn 79770-08-27 02:53 G 30856692.49 30856692.62 30856692.77 0.0292 0.0173

Jupiter 79770-08-29 00:00 G 30856694.34 30856694.50 30856694.65 0.0530 0.0166

Saturn 79770-11-24 00:00 G 30856781.33 30856781.50 30856781.67 0.0292 0.0006

Saturn 79771-02-20 20:10 G 30856870.21 30856870.34 30856870.48 0.0292 0.0179

Earth 79772-06-10 04:34 G 30857345.57 30857345.69 30857345.81 0.2625 0.0564

Moon 79772-06-10 04:48 G 30857345.58 30857345.70 30857345.82 0.2618 0.0610 *

Pluto 79773-07-22 01:41 G 30857752.52 30857752.57 30857752.65 0.0063 0.0058

Pluto 79773-10-18 02:39 G 30857840.51 30857840.61 30857840.73 0.0063 0.0047

Pluto 79774-01-14 03:22 G 30857928.53 30857928.64 30857928.79 0.0063 0.0037

Mars 79774-02-08 08:10 G 30857953.79 30857953.84 30857953.88 0.1667 0.1507

Pluto 79774-04-12 04:34 G 30858016.55 30858016.69 30858016.85 0.0063 0.0026

Venus 79774-05-12 07:12 G 30858046.74 30858046.80 30858046.86 0.3645 0.3016

Pluto 79774-07-09 05:32 G 30858104.57 30858104.73 30858104.89 0.0063 0.0015

Pluto 79774-10-05 06:29 G 30858192.61 30858192.77 30858192.94 0.0063 0.0005

Mars 79774-12-20 22:20 G 30858269.38 30858269.43 30858269.49 0.1857 0.1737

Pluto 79775-01-01 07:12 G 30858280.64 30858280.80 30858280.97 0.0063 0.0007

Pluto 79775-03-30 08:10 G 30858368.69 30858368.84 30858369.00 0.0063 0.0017

Pluto 79775-06-26 08:53 G 30858456.73 30858456.87 30858457.03 0.0063 0.0028

Pluto 79775-09-22 09:36 G 30858544.79 30858544.90 30858545.05 0.0063 0.0039

Pluto 79775-12-19 10:48 G 30858632.85 30858632.95 30858633.06 0.0064 0.0049

Mars 79776-01-14 14:24 G 30858658.98 30858659.10 30858659.21 0.1687 0.0514

Jupiter 79776-01-17 11:17 G 30858661.94 30858661.97 30858662.00 0.0501 0.0488

Pluto 79776-03-16 11:32 G 30858720.94 30858720.98 30858721.05 0.0064 0.0060

Jupiter 79776-04-15 18:58 G 30858751.16 30858751.29 30858751.42 0.0498 0.0169

Jupiter 79782-06-16 23:03 G 30861004.29 30861004.46 30861004.62 0.0529 0.0070

Moon 79782-12-13 22:05 G 30861184.33 30861184.42 30861184.51 0.2701 0.1995

Earth 79782-12-13 22:05 G 30861184.33 30861184.42 30861184.51 0.2707 0.1922 *

Mars 79785-06-06 00:29 G 30862089.40 30862089.52 30862089.64 0.1682 0.0010

Saturn 79785-06-08 16:20 G 30862092.13 30862092.18 30862092.24 0.0268 0.0244

Moon 79785-06-13 00:29 G 30862096.40 30862096.52 30862096.64 0.2620 0.0786

Earth 79785-06-13 00:58 G 30862096.42 30862096.54 30862096.66 0.2625 0.0788 *

Saturn 79785-09-05 03:51 G 30862180.54 30862180.66 30862180.78 0.0268 0.0136

Saturn 79785-12-02 15:22 G 30862269.00 30862269.14 30862269.29 0.0268 0.0027

Saturn 79786-03-01 03:22 G 30862357.51 30862357.64 30862357.78 0.0268 0.0088

Mars 79786-04-19 07:27 G 30862406.79 30862406.81 30862406.83 0.1835 0.1815

Saturn 79786-05-28 15:36 G 30862446.05 30862446.15 30862446.24 0.0268 0.0203

Jupiter 79788-02-02 22:34 G 30863061.30 30863061.44 30863061.58 0.0499 0.0015

Uranus 79792-03-07 16:20 G 30864556.15 30864556.18 30864556.22 0.0144 0.0139

Uranus 79792-06-03 20:39 G 30864644.28 30864644.36 30864644.45 0.0144 0.0116

Uranus 79792-08-31 00:58 G 30864732.44 30864732.54 30864732.66 0.0144 0.0093

Uranus 79792-11-27 05:32 G 30864820.61 30864820.73 30864820.86 0.0144 0.0069

Uranus 79793-02-23 10:05 G 30864908.78 30864908.92 30864909.06 0.0144 0.0045

Uranus 79793-05-22 14:39 G 30864996.96 30864997.11 30864997.25 0.0144 0.0021

Uranus 79793-08-18 19:12 G 30865085.15 30865085.30 30865085.44 0.0144 0.0003

Uranus 79793-11-14 23:46 G 30865173.35 30865173.49 30865173.63 0.0144 0.0027

Uranus 79794-02-11 04:20 G 30865261.54 30865261.68 30865261.82 0.0144 0.0052

Jupiter 79794-04-04 20:39 G 30865314.23 30865314.36 30865314.49 0.0528 0.0328

Uranus 79794-05-10 08:53 G 30865349.75 30865349.87 30865350.00 0.0144 0.0076

Uranus 79794-08-06 13:41 G 30865437.97 30865438.07 30865438.17 0.0144 0.0101

Mars 79794-10-27 10:48 G 30865519.84 30865519.95 30865520.07 0.1677 0.0497

Uranus 79794-11-02 18:15 G 30865526.20 30865526.26 30865526.34 0.0144 0.0125

Mars 79795-09-09 05:17 G 30865836.57 30865836.72 30865836.86 0.1842 0.0728

Mars 79796-10-01 18:15 G 30866225.23 30866225.26 30866225.29 0.1699 0.1633

Moon 79798-06-15 20:39 G 30866847.28 30866847.36 30866847.43 0.2623 0.2059

Earth 79798-06-15 21:36 G 30866847.33 30866847.40 30866847.46 0.2625 0.2181 *

Jupiter 79799-11-22 02:10 G 30867371.46 30867371.59 30867371.73 0.0500 0.0159

Saturn 79800-01-14 05:03 G 30867424.59 30867424.71 30867424.84 0.0293 0.0202

Saturn 79800-04-13 02:10 G 30867513.42 30867513.59 30867513.76 0.0292 0.0024

Saturn 79800-07-10 22:34 G 30867602.29 30867602.44 30867602.58 0.0292 0.0151

Earth 79802-12-10 03:22 G 30868484.52 30868484.64 30868484.75 0.2708 0.1360

Moon 79802-12-10 04:34 G 30868484.57 30868484.69 30868484.81 0.2706 0.1280 *

Mars 79804-03-19 21:22 G 30868950.30 30868950.39 30868950.49 0.1672 0.0978

Mars 79805-01-30 02:39 G 30869266.45 30869266.61 30869266.76 0.1849 0.0418

Earth 79805-06-09 13:41 G 30869396.98 30869397.07 30869397.17 0.2625 0.1618

Moon 79805-06-09 14:24 G 30869397.00 30869397.10 30869397.19 0.2620 0.1604 *

Mars 79806-02-23 04:20 G 30869655.59 30869655.68 30869655.77 0.1693 0.1098

Jupiter 79806-04-22 21:51 G 30869714.29 30869714.41 30869714.52 0.0530 0.0380

Jupiter 79811-09-11 06:15 G 30871681.65 30871681.76 30871681.86 0.0500 0.0317

Jupiter 79811-12-09 14:10 G 30871770.99 30871771.09 30871771.19 0.0497 0.0345

Venus 79812-10-20 14:39 G 30872087.02 30872087.11 30872087.19 0.3728 0.2969

Mars 79813-08-10 08:10 G 30872380.78 30872380.84 30872380.89 0.1667 0.1447

Mars 79814-06-21 23:03 G 30872696.39 30872696.46 30872696.54 0.1856 0.1619

Saturn 79815-01-24 06:44 G 30872912.67 30872912.78 30872912.89 0.0267 0.0163

Saturn 79815-04-22 18:15 G 30873001.12 30873001.26 30873001.40 0.0268 0.0053

Mars 79815-07-16 14:24 G 30873085.99 30873086.10 30873086.21 0.1687 0.0574

Saturn 79815-07-20 06:00 G 30873089.61 30873089.75 30873089.89 0.0268 0.0059

Saturn 79815-10-16 18:00 G 30873178.14 30873178.25 30873178.36 0.0268 0.0173

Earth 79815-12-13 03:36 G 30873235.52 30873235.65 30873235.79 0.2708 0.0490

Moon 79815-12-13 04:34 G 30873235.56 30873235.69 30873235.82 0.2703 0.0661 *

Jupiter 79818-02-08 20:53 G 30874024.21 30874024.37 30874024.52 0.0529 0.0148

Venus 79818-05-06 16:34 G 30874111.10 30874111.19 30874111.28 0.3727 0.2731

Earth 79818-06-12 09:51 G 30874147.78 30874147.91 30874148.03 0.2625 0.0308

Moon 79818-06-12 09:51 G 30874147.79 30874147.91 30874148.04 0.2618 0.0222 *

Venus 79819-11-18 19:12 G 30874672.20 30874672.30 30874672.40 0.3643 0.1471

Jupiter 79823-06-30 10:05 G 30875991.88 30875991.92 30875991.96 0.0501 0.0477

Jupiter 79823-09-27 17:46 G 30876081.11 30876081.24 30876081.37 0.0498 0.0180

Mars 79824-12-06 00:29 G 30876516.40 30876516.52 30876516.64 0.1682 0.0060

Venus 79825-06-03 12:00 G 30876695.90 30876696.00 30876696.10 0.3644 0.1261

Moon 79828-12-15 03:36 G 30877986.57 30877986.65 30877986.73 0.2700 0.2156

Earth 79828-12-15 03:36 G 30877986.58 30877986.65 30877986.72 0.2707 0.2256 *

Saturn 79829-06-03 03:22 G 30878156.57 30878156.64 30878156.71 0.0292 0.0262

Saturn 79829-08-31 00:29 G 30878245.36 30878245.52 30878245.68 0.0292 0.0082

Jupiter 79829-11-27 20:24 G 30878334.19 30878334.35 30878334.51 0.0529 0.0077

Saturn 79829-11-27 21:08 G 30878334.22 30878334.38 30878334.54 0.0292 0.0093 *

Saturn 79830-02-24 17:03 G 30878423.15 30878423.21 30878423.28 0.0291 0.0263

Moon 79831-06-15 05:32 G 30878898.61 30878898.73 30878898.85 0.2621 0.0911

Earth 79831-06-15 06:15 G 30878898.64 30878898.76 30878898.87 0.2625 0.1062 *

Mars 79834-04-28 10:48 G 30879946.84 30879946.95 30879947.07 0.1677 0.0442

Uranus 79834-09-21 15:51 G 30880093.13 30880093.16 30880093.21 0.0134 0.0130

Uranus 79834-12-18 21:22 G 30880181.30 30880181.39 30880181.50 0.0134 0.0107

Mars 79835-03-11 05:46 G 30880263.60 30880263.74 30880263.88 0.1842 0.0824

Uranus 79835-03-17 03:08 G 30880269.50 30880269.63 30880269.77 0.0134 0.0084

Uranus 79835-06-13 08:39 G 30880357.71 30880357.86 30880358.01 0.0134 0.0061

Jupiter 79835-07-16 20:39 G 30880391.22 30880391.36 30880391.50 0.0498 0.0012

Uranus 79835-09-09 13:56 G 30880445.93 30880446.08 30880446.25 0.0134 0.0039

Uranus 79835-12-06 19:27 G 30880534.15 30880534.31 30880534.48 0.0134 0.0016

Uranus 79836-03-04 00:58 G 30880622.37 30880622.54 30880622.71 0.0134 0.0007

Mars 79836-04-02 18:29 G 30880652.26 30880652.27 30880652.27 0.1699 0.1696

Uranus 79836-05-31 06:15 G 30880710.60 30880710.76 30880710.93 0.0134 0.0029

Uranus 79836-08-27 11:17 G 30880798.83 30880798.97 30880799.14 0.0134 0.0051

Uranus 79836-11-23 16:34 G 30880887.06 30880887.19 30880887.34 0.0134 0.0073

Uranus 79837-02-19 22:05 G 30880975.30 30880975.42 30880975.54 0.0134 0.0094

Neptune 79837-05-17 00:44 G 30881061.53 30881061.53 30881061.53 0.0090 0.0090

Uranus 79837-05-19 03:08 G 30881063.55 30881063.63 30881063.72 0.0134 0.0116

Neptune 79837-08-13 03:22 G 30881149.57 30881149.64 30881149.72 0.0090 0.0080

Neptune 79837-11-09 06:15 G 30881237.65 30881237.76 30881237.86 0.0090 0.0070

Neptune 79838-02-05 08:39 G 30881325.75 30881325.86 30881326.00 0.0090 0.0061

Neptune 79838-05-04 11:32 G 30881413.85 30881413.98 30881414.13 0.0090 0.0051

Moon 79838-06-07 23:46 G 30881448.47 30881448.49 30881448.51 0.2625 0.2575

Neptune 79838-07-31 14:10 G 30881501.95 30881502.09 30881502.25 0.0090 0.0041

Neptune 79838-10-27 16:48 G 30881590.05 30881590.20 30881590.37 0.0090 0.0032

Neptune 79839-01-23 19:41 G 30881678.16 30881678.32 30881678.49 0.0090 0.0022

Neptune 79839-04-21 22:20 G 30881766.26 30881766.43 30881766.60 0.0090 0.0012

Neptune 79839-07-19 00:58 G 30881854.37 30881854.54 30881854.71 0.0090 0.0003

Neptune 79839-10-15 03:36 G 30881942.48 30881942.65 30881942.82 0.0090 0.0007

Neptune 79840-01-11 06:15 G 30882030.59 30882030.76 30882030.93 0.0090 0.0016

Neptune 79840-04-08 08:53 G 30882118.71 30882118.87 30882119.03 0.0090 0.0026

Neptune 79840-07-05 11:17 G 30882206.82 30882206.97 30882207.13 0.0090 0.0035

Neptune 79840-10-01 13:41 G 30882294.94 30882295.07 30882295.23 0.0090 0.0045

Neptune 79840-12-28 16:34 G 30882383.06 30882383.19 30882383.32 0.0090 0.0054

Neptune 79841-03-26 19:12 G 30882471.18 30882471.30 30882471.42 0.0090 0.0063

Neptune 79841-06-22 21:22 G 30882559.31 30882559.39 30882559.50 0.0090 0.0073

Jupiter 79841-09-15 19:12 G 30882644.17 30882644.30 30882644.43 0.0528 0.0314

Neptune 79841-09-18 23:46 G 30882647.44 30882647.49 30882647.58 0.0090 0.0082

Mars 79843-09-18 21:22 G 30883377.29 30883377.39 30883377.49 0.1672 0.0923

Saturn 79844-06-12 09:22 G 30883644.80 30883644.89 30883644.99 0.0268 0.0190

Moon 79844-06-17 01:56 G 30883649.53 30883649.58 30883649.63 0.2624 0.2395

Earth 79844-06-17 02:39 G 30883649.57 30883649.61 30883649.66 0.2625 0.2460 *

Mars 79844-07-31 03:22 G 30883693.48 30883693.64 30883693.80 0.1849 0.0301

Saturn 79844-09-08 20:53 G 30883733.24 30883733.37 30883733.51 0.0268 0.0081

Saturn 79844-12-06 08:39 G 30883821.72 30883821.86 30883822.01 0.0268 0.0032

Saturn 79845-03-04 20:39 G 30883910.25 30883910.36 30883910.48 0.0268 0.0145

Saturn 79845-06-01 08:53 G 30883998.85 30883998.87 30883998.90 0.0269 0.0262

Mars 79845-08-24 04:20 G 30884082.59 30884082.68 30884082.76 0.1693 0.1154

Jupiter 79847-05-05 00:15 G 30884701.38 30884701.51 30884701.64 0.0499 0.0164

Earth 79848-12-10 09:08 G 30885286.75 30885286.88 30885287.00 0.2708 0.1014

Moon 79848-12-10 10:20 G 30885286.80 30885286.93 30885287.06 0.2706 0.0834 *

Earth 79851-06-10 18:44 G 30886199.18 30886199.28 30886199.39 0.2625 0.1366

Moon 79851-06-10 19:27 G 30886199.20 30886199.31 30886199.41 0.2619 0.1264 *

Mars 79853-02-08 08:10 G 30886807.77 30886807.84 30886807.90 0.1667 0.1390

Jupiter 79853-10-02 19:27 G 30887044.21 30887044.31 30887044.43 0.0530 0.0381

Mars 79853-12-20 23:46 G 30887123.40 30887123.49 30887123.59 0.1856 0.1505

Mars 79855-01-14 14:10 G 30887512.98 30887513.09 30887513.21 0.1687 0.0628

Saturn 79858-10-21 05:32 G 30888888.72 30888888.73 30888888.75 0.0293 0.0291

Saturn 79859-01-18 02:39 G 30888977.46 30888977.61 30888977.78 0.0293 0.0111

Jupiter 79859-02-21 04:05 G 30889011.56 30889011.67 30889011.77 0.0500 0.0324

Saturn 79859-04-16 23:32 G 30889066.32 30889066.48 30889066.64 0.0292 0.0067

Jupiter 79859-05-21 12:00 G 30889100.90 30889101.00 30889101.10 0.0498 0.0338

Saturn 79859-07-14 19:41 G 30889155.23 30889155.32 30889155.42 0.0292 0.0238

Earth 79861-12-13 09:22 G 30890037.76 30890037.89 30890038.02 0.2708 0.0823

Moon 79861-12-13 10:05 G 30890037.79 30890037.92 30890038.05 0.2702 0.0819 *

Pluto 79864-03-16 10:20 G 30890861.85 30890861.93 30890862.04 0.0081 0.0062

Mars 79864-06-06 00:29 G 30890943.40 30890943.52 30890943.64 0.1682 0.0126

Pluto 79864-06-12 12:00 G 30890949.88 30890950.00 30890950.14 0.0081 0.0041

Moon 79864-06-12 14:53 G 30890950.00 30890950.12 30890950.25 0.2619 0.0110 *

Earth 79864-06-12 14:53 G 30890950.00 30890950.12 30890950.25 0.2625 0.0086 *

Pluto 79864-09-08 13:41 G 30891037.92 30891038.07 30891038.22 0.0081 0.0020

Pluto 79864-12-05 15:08 G 30891125.98 30891126.13 30891126.29 0.0081 0.0002

Pluto 79865-03-03 16:48 G 30891214.05 30891214.20 30891214.35 0.0081 0.0021

Pluto 79865-05-30 18:15 G 30891302.13 30891302.26 30891302.39 0.0081 0.0042

Jupiter 79865-07-21 18:15 G 30891354.11 30891354.26 30891354.42 0.0529 0.0141

Pluto 79865-08-26 19:27 G 30891390.23 30891390.31 30891390.42 0.0080 0.0063

Venus 79869-05-27 14:53 G 30892759.99 30892760.12 30892760.25 0.3728 0.0933

Venus 79870-12-10 00:15 G 30893321.45 30893321.51 30893321.56 0.3643 0.3121

Jupiter 79870-12-10 07:56 G 30893321.80 30893321.83 30893321.87 0.0501 0.0483

Jupiter 79871-03-09 15:51 G 30893411.03 30893411.16 30893411.29 0.0498 0.0176

Mars 79873-10-27 10:48 G 30894373.84 30894373.95 30894374.07 0.1677 0.0381

Saturn 79873-10-30 12:29 G 30894376.94 30894377.02 30894377.10 0.0267 0.0214

Saturn 79874-01-27 00:00 G 30894465.37 30894465.50 30894465.63 0.0268 0.0106

Saturn 79874-04-25 11:46 G 30894553.84 30894553.99 30894554.13 0.0268 0.0008

Saturn 79874-07-22 23:32 G 30894642.35 30894642.48 30894642.61 0.0268 0.0118

Mars 79874-09-09 06:29 G 30894690.64 30894690.77 30894690.91 0.1842 0.0936

Saturn 79874-10-19 11:32 G 30894730.92 30894730.98 30894731.06 0.0268 0.0234

Earth 79874-12-16 09:22 G 30894788.85 30894788.89 30894788.92 0.2707 0.2582

Moon 79874-12-16 09:08 G 30894788.86 30894788.88 30894788.90 0.2700 0.2649 *

Uranus 79876-03-28 23:03 G 30895257.42 30895257.46 30895257.53 0.0144 0.0134

Venus 79876-06-24 16:48 G 30895345.10 30895345.20 30895345.31 0.3644 0.0471

Uranus 79876-06-25 03:51 G 30895345.57 30895345.66 30895345.75 0.0144 0.0110

Uranus 79876-09-21 08:10 G 30895433.73 30895433.84 30895433.96 0.0144 0.0086

Uranus 79876-12-18 12:44 G 30895521.90 30895522.03 30895522.16 0.0144 0.0063

Uranus 79877-03-16 17:03 G 30895610.08 30895610.21 30895610.35 0.0144 0.0039

Jupiter 79877-05-09 17:17 G 30895664.05 30895664.22 30895664.38 0.0529 0.0098

Uranus 79877-06-12 21:36 G 30895698.26 30895698.40 30895698.55 0.0144 0.0015

Moon 79877-06-15 10:34 G 30895700.84 30895700.94 30895701.05 0.2620 0.1328

Earth 79877-06-15 11:17 G 30895700.87 30895700.97 30895701.08 0.2625 0.1334 *

Uranus 79877-09-09 02:10 G 30895786.45 30895786.59 30895786.74 0.0144 0.0010

Uranus 79877-12-06 06:44 G 30895874.64 30895874.78 30895874.93 0.0144 0.0034

Uranus 79878-03-04 11:17 G 30895962.84 30895962.97 30895963.11 0.0144 0.0058

Uranus 79878-05-31 16:05 G 30896051.05 30896051.17 30896051.29 0.0144 0.0082

Uranus 79878-08-27 20:39 G 30896139.27 30896139.36 30896139.46 0.0144 0.0107

Uranus 79878-11-24 01:12 G 30896227.51 30896227.55 30896227.62 0.0144 0.0132

Earth 79881-12-08 14:10 G 30897338.05 30897338.09 30897338.13 0.2708 0.2545

Moon 79881-12-08 15:22 G 30897338.09 30897338.14 30897338.19 0.2710 0.2464 *

Venus 79882-01-08 09:51 G 30897368.83 30897368.91 30897368.99 0.3645 0.2301

Jupiter 79882-12-26 19:27 G 30897721.17 30897721.31 30897721.45 0.0499 0.0013

Mars 79883-03-19 21:22 G 30897804.29 30897804.39 30897804.49 0.1672 0.0863

Mars 79884-01-30 03:51 G 30898120.50 30898120.66 30898120.82 0.1849 0.0206

Earth 79884-06-08 04:05 G 30898250.62 30898250.67 30898250.71 0.2625 0.2402

Moon 79884-06-08 04:48 G 30898250.65 30898250.70 30898250.76 0.2623 0.2323 *

Mars 79885-02-22 04:20 G 30898509.59 30898509.68 30898509.76 0.1693 0.1213

Saturn 79888-06-06 01:12 G 30899709.41 30899709.55 30899709.69 0.0292 0.0169

Saturn 79888-09-02 22:05 G 30899798.25 30899798.42 30899798.59 0.0292 0.0010

Saturn 79888-11-30 18:29 G 30899887.14 30899887.27 30899887.40 0.0291 0.0181

Jupiter 79889-02-25 16:34 G 30899974.06 30899974.19 30899974.32 0.0528 0.0325

Moon 79890-06-18 06:58 G 30900451.77 30900451.79 30900451.82 0.2626 0.2573

Mars 79892-08-09 07:56 G 30901234.76 30901234.83 30901234.90 0.1667 0.1335

Mars 79893-06-21 00:29 G 30901550.42 30901550.52 30901550.63 0.1857 0.1398

Mars 79894-07-15 14:24 G 30901939.99 30901940.10 30901940.21 0.1687 0.0688

Jupiter 79894-10-14 22:34 G 30902031.31 30902031.44 30902031.57 0.0499 0.0162

Earth 79894-12-11 14:53 G 30902088.99 30902089.12 30902089.25 0.2708 0.0660

Moon 79894-12-11 16:05 G 30902089.03 30902089.17 30902089.30 0.2706 0.0553 *

Earth 79897-06-11 00:00 G 30903001.39 30903001.50 30903001.61 0.2625 0.1110

Moon 79897-06-11 00:29 G 30903001.41 30903001.52 30903001.63 0.2619 0.1076 *

Jupiter 79901-03-15 18:15 G 30904374.16 30904374.26 30904374.37 0.0530 0.0394

Saturn 79903-03-20 14:53 G 30905109.07 30905109.12 30905109.18 0.0268 0.0244

Saturn 79903-06-17 02:24 G 30905197.48 30905197.60 30905197.72 0.0268 0.0136

Saturn 79903-09-13 14:10 G 30905285.95 30905286.09 30905286.23 0.0268 0.0025

Mars 79903-12-07 00:29 G 30905370.40 30905370.52 30905370.64 0.1682 0.0173

Saturn 79903-12-11 01:56 G 30905374.45 30905374.58 30905374.72 0.0268 0.0088

Saturn 79904-03-08 14:10 G 30905463.00 30905463.09 30905463.18 0.0269 0.0203

Jupiter 79906-08-04 02:10 G 30906341.49 30906341.59 30906341.69 0.0500 0.0328

Jupiter 79906-11-01 10:05 G 30906430.82 30906430.92 30906431.02 0.0497 0.0333

Earth 79907-12-15 15:08 G 30906840.01 30906840.13 30906840.25 0.2708 0.1162

Moon 79907-12-15 15:22 G 30906840.02 30906840.14 30906840.26 0.2701 0.1255 *

Moon 79910-06-14 19:56 G 30907752.20 30907752.33 30907752.45 0.2619 0.0249

Earth 79910-06-14 20:10 G 30907752.22 30907752.34 30907752.46 0.2625 0.0229 *

Jupiter 79913-01-01 16:20 G 30908684.02 30908684.18 30908684.33 0.0529 0.0140

Mars 79913-04-28 10:48 G 30908800.84 30908800.95 30908801.07 0.1677 0.0325

Mars 79914-03-11 07:27 G 30909117.68 30909117.81 30909117.94 0.1842 0.1044

Saturn 79917-10-25 03:22 G 30910441.52 30910441.64 30910441.77 0.0293 0.0199

Saturn 79918-01-22 00:29 G 30910530.35 30910530.52 30910530.69 0.0292 0.0020

Saturn 79918-04-20 20:53 G 30910619.23 30910619.37 30910619.51 0.0292 0.0155

Jupiter 79918-05-23 06:00 G 30910651.72 30910651.75 30910651.78 0.0501 0.0489

Jupiter 79918-08-20 13:41 G 30910740.94 30910741.07 30910741.20 0.0498 0.0170

Uranus 79918-10-13 00:00 G 30910794.43 30910794.50 30910794.58 0.0134 0.0119

Uranus 79919-01-09 05:46 G 30910882.62 30910882.74 30910882.86 0.0134 0.0096

Uranus 79919-04-07 11:17 G 30910970.83 30910970.97 30910971.11 0.0134 0.0073

Uranus 79919-07-04 16:34 G 30911059.04 30911059.19 30911059.36 0.0134 0.0051

Neptune 79919-08-06 22:34 G 30911092.41 30911092.44 30911092.50 0.0088 0.0084

Uranus 79919-09-30 22:05 G 30911147.26 30911147.42 30911147.59 0.0134 0.0028

Neptune 79919-11-03 00:15 G 30911180.45 30911180.51 30911180.59 0.0088 0.0076

Uranus 79919-12-28 03:36 G 30911235.48 30911235.65 30911235.82 0.0134 0.0005

Neptune 79920-01-30 01:56 G 30911268.50 30911268.58 30911268.68 0.0088 0.0068

Uranus 79920-03-25 08:53 G 30911323.71 30911323.87 30911324.04 0.0134 0.0017

Neptune 79920-04-27 03:36 G 30911356.56 30911356.65 30911356.76 0.0088 0.0061

Uranus 79920-06-21 14:10 G 30911411.93 30911412.09 30911412.26 0.0134 0.0039

Neptune 79920-07-24 05:17 G 30911444.61 30911444.72 30911444.84 0.0088 0.0053

Uranus 79920-09-17 19:27 G 30911500.17 30911500.31 30911500.47 0.0134 0.0061

Neptune 79920-10-20 06:58 G 30911532.68 30911532.79 30911532.92 0.0088 0.0046

Uranus 79920-12-15 00:44 G 30911588.41 30911588.53 30911588.67 0.0134 0.0083

Neptune 79921-01-16 08:53 G 30911620.74 30911620.87 30911621.00 0.0088 0.0038

Uranus 79921-03-13 05:46 G 30911676.65 30911676.74 30911676.86 0.0134 0.0105

Neptune 79921-04-14 10:20 G 30911708.80 30911708.93 30911709.08 0.0088 0.0031

Uranus 79921-06-09 11:17 G 30911764.92 30911764.97 30911765.02 0.0134 0.0126

Neptune 79921-07-11 12:15 G 30911796.87 30911797.01 30911797.15 0.0088 0.0023

Neptune 79921-10-07 13:56 G 30911884.94 30911885.08 30911885.23 0.0088 0.0015

Neptune 79922-01-03 15:36 G 30911973.01 30911973.15 30911973.30 0.0088 0.0008

Neptune 79922-04-01 17:32 G 30912061.08 30912061.23 30912061.37 0.0088 0.0002

Neptune 79922-06-28 19:12 G 30912149.15 30912149.30 30912149.45 0.0088 0.0008

Mars 79922-09-18 21:22 G 30912231.29 30912231.39 30912231.49 0.1672 0.0805

Neptune 79922-09-24 20:53 G 30912237.23 30912237.37 30912237.52 0.0088 0.0016

Neptune 79922-12-21 22:34 G 30912325.30 30912325.44 30912325.59 0.0088 0.0024

Neptune 79923-03-20 00:15 G 30912413.38 30912413.51 30912413.66 0.0088 0.0032

Neptune 79923-06-16 01:56 G 30912501.46 30912501.58 30912501.72 0.0088 0.0040

Moon 79923-06-17 15:51 G 30912503.06 30912503.16 30912503.27 0.2621 0.1449

Earth 79923-06-17 16:34 G 30912503.09 30912503.19 30912503.29 0.2625 0.1608 *

Mars 79923-08-01 04:34 G 30912547.53 30912547.69 30912547.85 0.1849 0.0103

Neptune 79923-09-12 03:36 G 30912589.54 30912589.65 30912589.79 0.0088 0.0048

Neptune 79923-12-09 05:46 G 30912677.62 30912677.74 30912677.85 0.0088 0.0055

Neptune 79924-03-06 07:27 G 30912765.71 30912765.81 30912765.92 0.0088 0.0063

Neptune 79924-06-02 09:08 G 30912853.80 30912853.88 30912853.97 0.0088 0.0071

Mars 79924-08-24 04:20 G 30912936.60 30912936.68 30912936.76 0.1693 0.1273

Neptune 79924-08-29 10:48 G 30912941.90 30912941.95 30912942.03 0.0088 0.0079

Jupiter 79924-10-20 14:53 G 30912993.95 30912994.12 30912994.28 0.0528 0.0103

Neptune 79924-11-25 12:44 G 30913030.02 30913030.03 30913030.05 0.0088 0.0087

Venus 79926-01-02 15:08 G 30913433.00 30913433.13 30913433.26 0.3728 0.1055

Venus 79927-07-17 21:51 G 30913994.32 30913994.41 30913994.50 0.3643 0.2130

Earth 79927-12-10 19:56 G 30914140.25 30914140.33 30914140.41 0.2708 0.2191

Moon 79927-12-10 21:08 G 30914140.29 30914140.38 30914140.47 0.2709 0.1977 *

Jupiter 79930-06-08 17:32 G 30915051.09 30915051.23 30915051.37 0.0499 0.0014

Earth 79930-06-10 09:08 G 30915052.81 30915052.88 30915052.95 0.2625 0.2156

Moon 79930-06-10 09:51 G 30915052.83 30915052.91 30915052.99 0.2621 0.2027 *

Mars 79932-02-09 07:56 G 30915661.76 30915661.83 30915661.91 0.1667 0.1277

Saturn 79932-08-06 18:15 G 30915841.26 30915841.26 30915841.26 0.0267 0.0267

Saturn 79932-11-03 05:32 G 30915929.62 30915929.73 30915929.85 0.0267 0.0160

Mars 79932-12-21 01:27 G 30915977.44 30915977.56 30915977.67 0.1856 0.1279

Venus 79933-01-30 14:39 G 30916018.00 30916018.11 30916018.22 0.3644 0.0564

Saturn 79933-01-30 17:17 G 30916018.08 30916018.22 30916018.36 0.0268 0.0050 *

Saturn 79933-04-29 05:03 G 30916106.57 30916106.71 30916106.85 0.0268 0.0062

Saturn 79933-07-26 17:03 G 30916195.10 30916195.21 30916195.32 0.0268 0.0176

Mars 79934-01-14 14:24 G 30916366.99 30916367.10 30916367.20 0.1687 0.0746

Jupiter 79936-08-08 13:12 G 30917303.93 30917304.05 30917304.18 0.0528 0.0345

Venus 79938-08-16 07:41 G 30918041.78 30918041.82 30918041.86 0.3645 0.3340

Earth 79940-12-12 20:39 G 30918891.22 30918891.36 30918891.49 0.2708 0.0310

Moon 79940-12-12 21:36 G 30918891.27 30918891.40 30918891.54 0.2705 0.0193 *

Jupiter 79942-03-27 21:08 G 30919361.25 30919361.38 30919361.52 0.0499 0.0154

Mars 79943-06-07 00:29 G 30919797.40 30919797.52 30919797.64 0.1682 0.0234

Earth 79943-06-13 05:03 G 30919803.60 30919803.71 30919803.83 0.2625 0.0851

Moon 79943-06-13 05:32 G 30919803.61 30919803.73 30919803.85 0.2619 0.0793 *

Saturn 79947-03-14 01:56 G 30921173.51 30921173.58 30921173.67 0.0292 0.0256

Saturn 79947-06-10 23:17 G 30921262.30 30921262.47 30921262.63 0.0292 0.0076

Saturn 79947-09-07 19:56 G 30921351.17 30921351.33 30921351.49 0.0292 0.0100

Saturn 79947-12-05 15:51 G 30921440.11 30921440.16 30921440.22 0.0291 0.0270

Jupiter 79948-08-25 15:36 G 30921704.04 30921704.15 30921704.26 0.0530 0.0383

Mars 79952-10-27 10:48 G 30923227.83 30923227.95 30923228.07 0.1677 0.0268

Mars 79953-09-09 07:41 G 30923544.70 30923544.82 30923544.95 0.1842 0.1134

Earth 79953-12-15 20:39 G 30923642.25 30923642.36 30923642.47 0.2708 0.1505

Moon 79953-12-15 21:08 G 30923642.27 30923642.38 30923642.49 0.2701 0.1502 *

Jupiter 79954-01-14 00:29 G 30923671.42 30923671.52 30923671.63 0.0500 0.0325

Jupiter 79954-04-13 08:24 G 30923760.75 30923760.85 30923760.95 0.0497 0.0335

Moon 79956-06-15 00:58 G 30924554.42 30924554.54 30924554.66 0.2619 0.0419

Earth 79956-06-15 01:27 G 30924554.43 30924554.56 30924554.68 0.2625 0.0503 *

Uranus 79960-04-19 06:44 G 30925958.72 30925958.78 30925958.86 0.0144 0.0125

Jupiter 79960-06-13 14:53 G 30926013.96 30926014.12 30926014.27 0.0529 0.0153

Uranus 79960-07-16 11:17 G 30926046.87 30926046.97 30926047.07 0.0144 0.0102

Uranus 79960-10-12 15:36 G 30926135.03 30926135.15 30926135.28 0.0144 0.0079

Uranus 79961-01-08 20:10 G 30926223.21 30926223.34 30926223.47 0.0144 0.0055

Uranus 79961-04-07 00:29 G 30926311.38 30926311.52 30926311.67 0.0144 0.0032

Uranus 79961-07-04 05:03 G 30926399.57 30926399.71 30926399.86 0.0144 0.0008

Uranus 79961-09-30 09:51 G 30926487.76 30926487.91 30926488.05 0.0144 0.0018

Uranus 79961-12-27 14:24 G 30926575.96 30926576.10 30926576.24 0.0144 0.0042

Mars 79962-03-19 21:22 G 30926658.28 30926658.39 30926658.49 0.1672 0.0753

Saturn 79962-03-23 07:56 G 30926661.73 30926661.83 30926661.92 0.0268 0.0192

Uranus 79962-03-25 18:44 G 30926664.16 30926664.28 30926664.42 0.0144 0.0066

Saturn 79962-06-19 19:27 G 30926750.17 30926750.31 30926750.44 0.0268 0.0083

Uranus 79962-06-21 23:32 G 30926752.37 30926752.48 30926752.60 0.0144 0.0090

Saturn 79962-09-16 07:12 G 30926838.66 30926838.80 30926838.94 0.0268 0.0029

Uranus 79962-09-18 04:05 G 30926840.59 30926840.67 30926840.77 0.0144 0.0115

Saturn 79962-12-13 19:12 G 30926927.18 30926927.30 30926927.42 0.0269 0.0143

Uranus 79962-12-15 08:53 G 30926928.84 30926928.87 30926928.91 0.0144 0.0140

Mars 79963-01-30 05:32 G 30926974.57 30926974.73 30926974.89 0.1849 0.0052

Saturn 79963-03-12 07:27 G 30927015.77 30927015.81 30927015.84 0.0269 0.0259

Mars 79964-02-23 04:20 G 30927363.60 30927363.68 30927363.75 0.1693 0.1325

Jupiter 79965-11-02 04:05 G 30927981.65 30927981.67 30927981.70 0.0501 0.0489

Jupiter 79966-01-30 11:46 G 30928070.86 30928070.99 30928071.13 0.0498 0.0168

Moon 79969-06-17 20:53 G 30929305.29 30929305.37 30929305.46 0.2622 0.1846

Earth 79969-06-17 21:51 G 30929305.32 30929305.41 30929305.49 0.2625 0.1876 *

Mars 79971-08-10 07:56 G 30930088.75 30930088.83 30930088.91 0.1667 0.1219

Jupiter 79972-04-01 12:44 G 30930323.87 30930324.03 30930324.19 0.0528 0.0101

Mars 79972-06-21 02:10 G 30930404.46 30930404.59 30930404.71 0.1856 0.1171

Mars 79973-07-15 14:10 G 30930793.99 30930794.09 30930794.20 0.1687 0.0804

Earth 79973-12-11 01:41 G 30930942.47 30930942.57 30930942.67 0.2708 0.1831

Moon 79973-12-11 02:53 G 30930942.52 30930942.62 30930942.73 0.2709 0.1774 *

Earth 79976-06-10 14:10 G 30931855.01 30931855.09 30931855.17 0.2625 0.1901

Moon 79976-06-10 14:53 G 30931855.04 30931855.12 30931855.21 0.2621 0.1873 *

Saturn 79976-07-31 03:36 G 30931905.63 30931905.65 30931905.67 0.0293 0.0290

Saturn	79976-10-28 00:58 G	30931994.38	30931994.54	30931994.70	0.0293	0.0109
Venus	79977-01-23 12:58 G	30932081.95	30932082.04	30932082.13	0.3729	0.2728
Saturn	79977-01-24 21:36 G	30932083.24	30932083.40	30932083.57	0.0292	0.0069
Saturn	79977-04-23 18:00 G	30932172.15	30932172.25	30932172.34	0.0292	0.0240
Jupiter	79977-11-18 15:22 G	30932381.00	30932381.14	30932381.28	0.0499	0.0015
Venus	79982-08-09 15:08 G	30934106.05	30934106.13	30934106.21	0.3728	0.2996
Mars	79982-12-06 00:29 G	30934224.40	30934224.52	30934224.64	0.1682	0.0291
Jupiter	79984-01-19 11:03 G	30934633.84	30934633.96	30934634.09	0.0527	0.0346
Venus	79984-02-21 19:27 G	30934667.21	30934667.31	30934667.42	0.3643	0.1144
Earth	79986-12-14 02:10 G	30935693.46	30935693.59	30935693.73	0.2708	0.0090
Moon	79986-12-14 03:08 G	30935693.49	30935693.63	30935693.77	0.2703	0.0178 *
Moon	79989-06-13 10:20 G	30936605.81	30936605.93	30936606.06	0.2619	0.0556
Earth	79989-06-13 10:20 G	30936605.81	30936605.93	30936606.05	0.2625	0.0597 *
Venus	79989-09-06 12:29 G	30936690.92	30936691.02	30936691.11	0.3644	0.1591
Jupiter	79989-09-06 19:12 G	30936691.17	30936691.30	30936691.44	0.0500	0.0157
Saturn	79991-08-10 11:03 G	30937393.88	30937393.96	30937394.05	0.0267	0.0215
Saturn	79991-11-06 22:34 G	30937482.31	30937482.44	30937482.57	0.0268	0.0107
Saturn	79992-02-03 10:20 G	30937570.79	30937570.93	30937571.07	0.0268	0.0005
Mars	79992-04-27 10:48 G	30937654.83	30937654.95	30937655.07	0.1677	0.0209
Saturn	79992-05-01 22:05 G	30937659.30	30937659.42	30937659.55	0.0268	0.0117
Saturn	79992-07-29 10:05 G	30937747.86	30937747.92	30937748.00	0.0268	0.0233
Mars	79993-03-10 08:39 G	30937971.75	30937971.86	30937971.98	0.1842	0.1247
Jupiter	79996-02-05 12:29 G	30939033.91	30939034.02	30939034.14	0.0530	0.0367
Earth	79999-12-17 02:24 G	30940444.50	30940444.60	30940444.70	0.2708	0.1838
Moon	79999-12-17 02:39 G	30940444.52	30940444.61	30940444.71	0.2701	0.1879 *

81ST MILLENNIUM CE

This is a list of transits of Mercury in the 81st millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	80001-06-25 23:03	G	30941001.36	30941001.46	30941001.57	0.0500	0.0317	
Mars	80001-09-17 21:22	G	30941085.28	30941085.39	30941085.50	0.1671	0.0692	
Jupiter	80001-09-23 06:58	G	30941090.70	30941090.79	30941090.90	0.0498	0.0346	
Neptune	80002-02-11 22:05	G	30941232.40	30941232.42	30941232.46	0.0090	0.0088	
Neptune	80002-05-11 00:29	G	30941320.46	30941320.52	30941320.62	0.0090	0.0079	
Moon	80002-06-16 06:00	G	30941356.63	30941356.75	30941356.87	0.2619	0.0729	
Earth	80002-06-16 06:29	G	30941356.65	30941356.77	30941356.89	0.2625	0.0760	*
Mars	80002-07-31 06:00	G	30941401.59	30941401.75	30941401.91	0.1849	0.0117	
Uranus	80002-08-06 02:24	G	30941407.58	30941407.60	30941407.64	0.0134	0.0132	
Neptune	80002-08-07 03:22	G	30941408.55	30941408.64	30941408.77	0.0090	0.0069	
Uranus	80002-11-02 07:56	G	30941495.75	30941495.83	30941495.95	0.0134	0.0109	
Neptune	80002-11-03 06:15	G	30941496.64	30941496.76	30941496.90	0.0090	0.0059	
Uranus	80003-01-29 13:41	G	30941583.95	30941584.07	30941584.21	0.0134	0.0086	
Neptune	80003-01-30 09:08	G	30941584.74	30941584.88	30941585.03	0.0090	0.0049	
Uranus	80003-04-27 19:12	G	30941672.16	30941672.30	30941672.46	0.0134	0.0063	
Neptune	80003-04-28 11:46	G	30941672.84	30941672.99	30941673.15	0.0090	0.0039	
Uranus	80003-07-25 00:44	G	30941760.37	30941760.53	30941760.70	0.0134	0.0040	
Neptune	80003-07-25 14:24	G	30941760.95	30941761.10	30941761.27	0.0090	0.0030	
Mars	80003-08-24 04:20	G	30941790.61	30941790.68	30941790.75	0.1693	0.1386	
Uranus	80003-10-21 06:15	G	30941848.59	30941848.76	30941848.93	0.0134	0.0017	
Neptune	80003-10-21 17:17	G	30941849.05	30941849.22	30941849.39	0.0090	0.0020	
Uranus	80004-01-17 11:46	G	30941936.82	30941936.99	30941937.16	0.0134	0.0005	

Neptune 80004-01-17 19:56 G 30941937.16 30941937.33 30941937.50 0.0090 0.0010 *

Uranus 80004-04-14 17:03 G 30942025.05 30942025.21 30942025.38 0.0134 0.0028

Neptune 80004-04-14 22:34 G 30942025.27 30942025.44 30942025.61 0.0090 0.0002 *

Uranus 80004-07-11 22:20 G 30942113.28 30942113.43 30942113.59 0.0134 0.0050

Neptune 80004-07-12 01:12 G 30942113.38 30942113.55 30942113.72 0.0090 0.0009 *

Neptune 80004-10-08 03:51 G 30942201.50 30942201.66 30942201.83 0.0090 0.0018

Uranus 80004-10-08 03:36 G 30942201.51 30942201.65 30942201.80 0.0134 0.0072 *

Neptune 80005-01-04 06:15 G 30942289.61 30942289.76 30942289.93 0.0090 0.0028

Uranus 80005-01-04 08:39 G 30942289.76 30942289.86 30942289.99 0.0134 0.0094 *

Neptune 80005-04-02 09:08 G 30942377.73 30942377.88 30942378.03 0.0090 0.0037

Uranus 80005-04-02 14:10 G 30942378.01 30942378.09 30942378.17 0.0134 0.0115 *

Neptune 80005-06-29 11:17 G 30942465.84 30942465.97 30942466.13 0.0090 0.0047

Neptune 80005-09-25 13:56 G 30942553.96 30942554.08 30942554.22 0.0090 0.0056

Neptune 80005-12-22 16:34 G 30942642.09 30942642.19 30942642.32 0.0090 0.0065

Saturn 80006-03-16 23:32 G 30942726.34 30942726.48 30942726.63 0.0292 0.0166

Neptune 80006-03-20 19:27 G 30942730.22 30942730.31 30942730.40 0.0090 0.0074

Saturn 80006-06-13 20:39 G 30942815.19 30942815.36 30942815.53 0.0292 0.0013

Neptune 80006-06-16 21:36 G 30942818.36 30942818.40 30942818.47 0.0090 0.0084

Saturn 80006-09-10 16:48 G 30942904.08 30942904.20 30942904.34 0.0291 0.0186

Jupiter 80007-11-24 12:00 G 30943343.85 30943344.00 30943344.16 0.0529 0.0143

Mars 80011-02-08 07:56 G 30944515.74 30944515.83 30944515.91 0.1666 0.1167

Mars 80011-12-21 02:53 G 30944831.49 30944831.62 30944831.75 0.1857 0.1059

Mars 80013-01-13 14:24 G 30945220.99 30945221.10 30945221.20 0.1687 0.0859

Jupiter 80013-04-14 02:39 G 30945311.58 30945311.61 30945311.65 0.0501 0.0484

Jupiter 80013-07-12 10:20 G 30945400.80 30945400.93 30945401.06 0.0498 0.0173

Moon 80015-06-19 02:10 G 30946107.51 30946107.59 30946107.67 0.2624 0.2008

Earth 80015-06-19 03:08 G 30946107.56 30946107.63 30946107.69 0.2625 0.2155 *

Jupiter 80019-09-12 11:17 G 30947653.81 30947653.97 30947654.13 0.0529 0.0089

Earth 80019-12-12 07:27 G 30947744.70 30947744.81 30947744.92 0.2708 0.1479

Moon 80019-12-12 08:39 G 30947744.74 30947744.86 30947744.98 0.2708 0.1252 *

Mars 80020-06-30 18:44 G 30947946.26 30947946.28 30947946.30 0.1662 0.1622

Pluto 80020-11-28 11:32 G 30948096.90 30948096.98 30948097.08 0.0063 0.0053

Saturn 80020-12-27 12:58 G 30948126.00 30948126.04 30948126.09 0.0268 0.0251

Pluto 80021-02-24 12:15 G 30948184.91 30948185.01 30948185.15 0.0063 0.0043

Saturn 80021-03-26 00:15 G 30948214.40 30948214.51 30948214.63 0.0268 0.0143

Pluto 80021-05-23 13:12 G 30948272.92 30948273.05 30948273.21 0.0063 0.0032

Saturn 80021-06-22 12:00 G 30948302.86 30948303.00 30948303.14 0.0268 0.0033

Pluto 80021-08-19 14:24 G 30948360.95 30948361.10 30948361.26 0.0063 0.0021

Saturn 80021-09-18 23:46 G 30948391.36 30948391.49 30948391.63 0.0268 0.0080

Pluto 80021-11-15 15:08 G 30948448.98 30948449.13 30948449.30 0.0063 0.0011

Saturn 80021-12-16 11:46 G 30948479.90 30948479.99 30948480.09 0.0269 0.0195

Pluto 80022-02-11 16:20 G 30948537.01 30948537.18 30948537.34 0.0063 0.0001

Pluto 80022-05-10 17:03 G 30948625.05 30948625.21 30948625.38 0.0063 0.0011

Mars 80022-06-06 00:29 G 30948651.40 30948651.52 30948651.63 0.1682 0.0346

Earth 80022-06-11 19:12 G 30948657.21 30948657.30 30948657.40 0.2625 0.1652

Moon 80022-06-11 19:56 G 30948657.23 30948657.33 30948657.43 0.2621 0.1503 *

Pluto 80022-08-06 17:46 G 30948713.10 30948713.24 30948713.41 0.0063 0.0022

Pluto 80022-11-02 18:29 G 30948801.15 30948801.27 30948801.43 0.0063 0.0033

Pluto 80023-01-29 19:41 G 30948889.21 30948889.32 30948889.45 0.0063 0.0043

Pluto 80023-04-27 20:24 G 30948977.28 30948977.35 30948977.45 0.0063 0.0054

Jupiter 80025-04-30 13:56 G 30949710.94 30949711.08 30949711.22 0.0499 0.0007

Jupiter 80031-07-01 09:08 G 30951963.76 30951963.88 30951964.01 0.0527 0.0341

Mars 80031-10-27 10:48 G 30952081.83 30952081.95 30952082.07 0.1677 0.0153

Mars 80032-09-08 09:22 G 30952398.78 30952398.89 30952398.99 0.1842 0.1347

Earth 80032-12-14 07:56 G 30952495.70 30952495.83 30952495.96 0.2708 0.0384

Moon 80032-12-14 08:39 G 30952495.73 30952495.86 30952496.00 0.2702 0.0402 *

Venus 80033-08-30 13:12 G 30952754.92 30952755.05 30952755.18 0.3729 0.0725

Venus 80035-03-15 00:29 G 30953316.45 30953316.52 30953316.59 0.3642 0.2800

Moon 80035-06-14 15:22 G 30953408.02 30953408.14 30953408.27 0.2618 0.0374

Earth 80035-06-14 15:22 G 30953408.02 30953408.14 30953408.26 0.2625 0.0329 *

Saturn 80035-08-04 00:44 G 30953458.41 30953458.53 30953458.66 0.0293 0.0204

Saturn 80035-10-31 21:51 G 30953547.24 30953547.41 30953547.58 0.0293 0.0025

Saturn 80036-01-28 18:29 G 30953636.13 30953636.27 30953636.41 0.0292 0.0151

Jupiter 80037-02-16 17:32 G 30954021.10 30954021.23 30954021.36 0.0500 0.0158

Venus 80040-09-27 17:17 G 30955340.11 30955340.22 30955340.33 0.3643 0.0136

Mars 80041-03-18 21:22 G 30955512.28 30955512.39 30955512.50 0.1671 0.0636

Mars 80042-01-29 06:58 G 30955828.63 30955828.79 30955828.94 0.1849 0.0236

Mars 80043-02-22 04:20 G 30956217.62 30956217.68 30956217.74 0.1693 0.1443

Jupiter 80043-07-18 10:34 G 30956363.83 30956363.94 30956364.06 0.0529 0.0370

Uranus 80044-02-11 09:36 G 30956571.89 30956571.90 30956571.94 0.0144 0.0142

Uranus 80044-05-09 13:56 G 30956660.01 30956660.08 30956660.17 0.0144 0.0119

Uranus 80044-08-05 18:29 G 30956748.17 30956748.27 30956748.38 0.0144 0.0095

Uranus 80044-11-01 23:03 G 30956836.33 30956836.46 30956836.58 0.0144 0.0071

Uranus 80045-01-29 03:22 G 30956924.51 30956924.64 30956924.78 0.0144 0.0048

Uranus 80045-04-27 07:56 G 30957012.69 30957012.83 30957012.97 0.0144 0.0024

Uranus 80045-07-24 12:29 G 30957100.87 30957101.02 30957101.16 0.0144 0.0001

Uranus 80045-10-20 17:03 G 30957189.06 30957189.21 30957189.35 0.0144 0.0024

Moon 80045-12-17 08:10 G 30957246.76 30957246.84 30957246.91 0.2701 0.2189

Earth 80045-12-17 07:56 G 30957246.76 30957246.83 30957246.91 0.2707 0.2176 *

Uranus 80046-01-16 21:36 G 30957277.26 30957277.40 30957277.54 0.0144 0.0049

Venus 80046-04-13 10:05 G 30957363.85 30957363.92 30957364.00 0.3644 0.2604

Uranus 80046-04-15 02:10 G 30957365.47 30957365.59 30957365.72 0.0144 0.0073

Uranus 80046-07-12 06:44 G 30957453.68 30957453.78 30957453.89 0.0144 0.0098

Uranus 80046-10-08 11:32 G 30957541.91 30957541.98 30957542.06 0.0144 0.0122

Moon 80048-06-16 11:17 G 30958158.85 30958158.97 30958159.08 0.2619 0.0976

Earth 80048-06-16 11:46 G 30958158.87 30958158.99 30958159.10 0.2625 0.1031 *

Jupiter 80048-12-05 21:22 G 30958331.29 30958331.39 30958331.50 0.0501 0.0317

Jupiter 80049-03-05 05:17 G 30958420.62 30958420.72 30958420.82 0.0498 0.0345

Mars 80050-08-09 07:56 G 30958942.74 30958942.83 30958942.92 0.1667 0.1107

Saturn 80050-08-13 03:22 G 30958946.54 30958946.64 30958946.76 0.0267 0.0168

Saturn 80050-11-09 15:08 G 30959034.99 30959035.13 30959035.27 0.0268 0.0058

Saturn 80051-02-06 02:53 G 30959123.48 30959123.62 30959123.76 0.0268 0.0054

Saturn 80051-05-05 14:39 G 30959212.01 30959212.11 30959212.23 0.0268 0.0169

Mars 80051-06-21 03:36 G 30959258.51 30959258.65 30959258.79 0.1856 0.0947

Mars 80052-07-14 14:24 G 30959648.00 30959648.10 30959648.20 0.1687 0.0918

Jupiter 80055-05-06 09:22 G 30960673.73 30960673.89 30960674.05 0.0529 0.0131

Moon 80055-06-10 05:32 G 30960708.70 30960708.73 30960708.76 0.2623 0.2518

Mars 80059-12-30 18:44 G 30962373.24 30962373.28 30962373.31 0.1662 0.1568

Jupiter 80060-09-24 01:27 G 30962641.52 30962641.56 30962641.60 0.0501 0.0475

Jupiter 80060-12-22 09:08 G 30962730.75 30962730.88 30962731.01 0.0498 0.0184

Moon 80061-06-19 07:12 G 30962909.75 30962909.80 30962909.85 0.2625 0.2341

Earth 80061-06-19 08:10 G 30962909.80 30962909.84 30962909.89 0.2625 0.2426 *

Mars 80061-12-05 00:29 G 30963078.40 30963078.52 30963078.64 0.1682 0.0403

Saturn 80064-12-20 23:17 G 30964190.40 30964190.47 30964190.55 0.0292 0.0262

Saturn 80065-03-19 20:24 G 30964279.19 30964279.35 30964279.52 0.0292 0.0082

Saturn 80065-06-16 17:17 G 30964368.06 30964368.22 30964368.38 0.0292 0.0095

Saturn 80065-09-13 13:27 G 30964456.99 30964457.06 30964457.13 0.0291 0.0265

Earth 80065-12-12 13:12 G 30964546.93 30964547.05 30964547.17 0.2708 0.1121

Moon 80065-12-12 14:24 G 30964546.98 30964547.10 30964547.22 0.2707 0.1080 *

Jupiter 80067-02-22 08:39 G 30964983.70 30964983.86 30964984.03 0.0528 0.0098

Earth 80068-06-12 00:29 G 30965459.42 30965459.52 30965459.62 0.2625 0.1391

Moon 80068-06-12 01:12 G 30965459.44 30965459.55 30965459.65 0.2620 0.1388 *

Mars 80071-04-27 10:48 G 30966508.83 30966508.95 30966509.07 0.1676 0.0096

Mars 80072-03-09 09:51 G 30966825.82 30966825.91 30966826.01 0.1842 0.1444

Jupiter 80072-10-10 12:29 G 30967040.88 30967041.02 30967041.16 0.0499 0.0015

Jupiter 80078-12-11 07:41 G 30969293.70 30969293.82 30969293.95 0.0528 0.0329

Earth 80078-12-15 13:41 G 30969297.94 30969298.07 30969298.20 0.2708 0.0728

Moon 80078-12-15 14:24 G 30969297.97 30969298.10 30969298.22 0.2702 0.0887 *

Saturn 80079-12-31 05:03 G 30969678.63 30969678.71 30969678.80 0.0268 0.0205

Saturn 80080-03-28 16:34 G 30969767.06 30969767.19 30969767.32 0.0268 0.0097

Saturn 80080-06-25 04:20 G 30969855.54 30969855.68 30969855.82 0.0268 0.0015

Mars 80080-09-16 21:08 G 30969939.27 30969939.38 30969939.50 0.1671 0.0585

Saturn 80080-09-21 16:05 G 30969944.05 30969944.17 30969944.30 0.0268 0.0128

Saturn 80080-12-19 04:05 G 30970032.62 30970032.67 30970032.74 0.0269 0.0244

Moon 80081-06-14 20:24 G 30970210.23 30970210.35 30970210.48 0.2618 0.0058

Earth 80081-06-14 20:39 G 30970210.23 30970210.36 30970210.48 0.2625 0.0101 *

Mars 80081-07-30 07:41 G 30970255.66 30970255.82 30970255.98 0.1849 0.0345

Mars 80082-08-23 04:20 G 30970644.62 30970644.68 30970644.73 0.1693 0.1497

Neptune 80084-05-02 21:22 G 30971263.35 30971263.39 30971263.46 0.0088 0.0081

Jupiter 80084-07-29 16:05 G 30971351.04 30971351.17 30971351.30 0.0499 0.0150

Neptune 80084-07-29 23:03 G 30971351.40 30971351.46 30971351.55 0.0088 0.0073

Neptune 80084-10-26 00:44 G 30971439.45 30971439.53 30971439.64 0.0088 0.0066

Neptune 80085-01-22 02:24 G 30971527.50 30971527.60 30971527.72 0.0088 0.0058

Neptune 80085-04-20 04:05 G 30971615.56 30971615.67 30971615.80 0.0088 0.0051

Neptune 80085-07-17 06:00 G 30971703.62 30971703.75 30971703.88 0.0088 0.0043

Neptune 80085-10-13 07:27 G 30971791.69 30971791.81 30971791.95 0.0088 0.0036

Neptune 80086-01-09 09:22 G 30971879.75 30971879.89 30971880.03 0.0088 0.0028

Neptune 80086-04-07 11:03 G 30971967.82 30971967.96 30971968.11 0.0088 0.0020

Neptune 80086-07-04 12:44 G 30972055.89 30972056.03 30972056.18 0.0088 0.0013

Uranus 80086-08-26 10:34 G 30972108.88 30972108.94 30972109.02 0.0134 0.0121

Neptune 80086-09-30 14:24 G 30972143.96 30972144.10 30972144.25 0.0088 0.0006

Uranus 80086-11-22 16:05 G 30972197.06 30972197.17 30972197.30 0.0134 0.0098

Neptune 80086-12-27 16:20 G 30972232.03 30972232.18 30972232.33 0.0088 0.0003

Uranus 80087-02-18 21:51 G 30972285.27 30972285.41 30972285.56 0.0134 0.0075

Neptune 80087-03-25 18:00 G 30972320.10 30972320.25 30972320.40 0.0088 0.0011

Uranus 80087-05-18 03:22 G 30972373.49 30972373.64 30972373.80 0.0134 0.0052

Neptune 80087-06-21 19:41 G 30972408.18 30972408.32 30972408.47 0.0088 0.0019

Uranus 80087-08-14 08:53 G 30972461.71 30972461.87 30972462.04 0.0134 0.0029

Neptune 80087-09-17 21:22 G 30972496.25 30972496.39 30972496.54 0.0088 0.0027

Uranus 80087-11-10 14:24 G 30972549.93 30972550.10 30972550.27 0.0134 0.0007

Neptune 80087-12-14 23:03 G 30972584.33 30972584.46 30972584.60 0.0088 0.0035

Uranus 80088-02-06 19:41 G 30972638.16 30972638.32 30972638.49 0.0134 0.0016

Neptune 80088-03-12 00:58 G 30972672.41 30972672.54 30972672.67 0.0088 0.0042

Uranus 80088-05-05 01:12 G 30972726.39 30972726.55 30972726.71 0.0134 0.0038

Neptune 80088-06-08 02:39 G 30972760.49 30972760.61 30972760.74 0.0088 0.0050

Uranus 80088-08-01 06:29 G 30972814.62 30972814.77 30972814.92 0.0134 0.0060

Neptune 80088-09-04 04:20 G 30972848.58 30972848.68 30972848.80 0.0088 0.0058

Uranus 80088-10-28 11:46 G 30972902.86 30972902.99 30972903.12 0.0134 0.0082

Neptune 80088-12-01 06:00 G 30972936.67 30972936.75 30972936.86 0.0088 0.0066

Uranus 80089-01-24 16:48 G 30972991.11 30972991.20 30972991.31 0.0134 0.0105

Neptune 80089-02-27 07:56 G 30973024.76 30973024.83 30973024.92 0.0088 0.0074

Uranus 80089-04-22 22:05 G 30973079.37 30973079.42 30973079.48 0.0134 0.0126

Neptune 80089-05-26 09:36 G 30973112.86 30973112.90 30973112.96 0.0088 0.0082

Mars 80090-02-07 07:56 G 30973369.74 30973369.83 30973369.92 0.1667 0.1052

Venus 80090-04-06 13:27 G 30973427.93 30973428.06 30973428.19 0.3729 0.1271

Mars 80090-12-20 04:20 G 30973685.53 30973685.68 30973685.82 0.1856 0.0839

Jupiter 80090-12-28 08:53 G 30973693.76 30973693.87 30973693.99 0.0529 0.0379

Venus 80091-10-19 22:20 G 30973989.33 30973989.43 30973989.52 0.3642 0.1813

Moon 80091-12-18 13:27 G 30974049.00 30974049.06 30974049.12 0.2701 0.2428

Earth 80091-12-18 13:41 G 30974049.02 30974049.07 30974049.12 0.2708 0.2506 *

Mars 80092-01-13 14:10 G 30974075.00 30974075.09 30974075.19 0.1687 0.0971

Moon 80094-06-17 16:20 G 30974961.07 30974961.18 30974961.29 0.2621 0.1194

Earth 80094-06-17 16:48 G 30974961.10 30974961.20 30974961.31 0.2625 0.1304 *

Saturn 80094-08-06 20:53 G 30975011.22 30975011.37 30975011.53 0.0293 0.0126

Saturn 80094-11-03 17:46 G 30975100.08 30975100.24 30975100.41 0.0293 0.0053

Saturn 80095-01-31 14:10 G 30975188.99 30975189.09 30975189.20 0.0292 0.0226

Jupiter 80096-05-17 19:41 G 30975661.22 30975661.32 30975661.43 0.0501 0.0315

Jupiter 80096-08-15 03:36 G 30975750.55 30975750.65 30975750.75 0.0498 0.0348

Venus 80097-05-04 15:08 G 30976013.02 30976013.13 30976013.23 0.3643 0.0899

Earth 80098-12-10 18:15 G 30976598.24 30976598.26 30976598.27 0.2708 0.2684

Moon 80098-12-10 19:27 G 30976598.27 30976598.31 30976598.34 0.2711 0.2614 *

Mars 80099-06-30 18:44 G 30976800.23 30976800.28 30976800.32 0.1662 0.1510

Mars 80101-06-06 00:29 G 30977505.41 30977505.52 30977505.64 0.1682 0.0462

Earth 80101-06-11 09:36 G 30977510.86 30977510.90 30977510.95 0.2625 0.2429

Moon 80101-06-11 10:34 G 30977510.89 30977510.94 30977510.99 0.2623 0.2385 *

Jupiter 80102-10-17 07:56 G 30978003.67 30978003.83 30978003.98 0.0528 0.0142

Moon 80107-06-21 12:29 G 30979712.00 30979712.02 30979712.04 0.2625 0.2580

Jupiter 80108-03-06 23:46 G 30979971.45 30979971.49 30979971.53 0.0502 0.0474

Jupiter 80108-06-04 07:27 G 30980060.68 30980060.81 30980060.94 0.0499 0.0186

Saturn 80109-05-20 08:10 G 30980410.78 30980410.84 30980410.91 0.0267 0.0230

Saturn 80109-08-16 19:41 G 30980499.19 30980499.32 30980499.44 0.0267 0.0122

Saturn 80109-11-13 07:12 G 30980587.66 30980587.80 30980587.94 0.0267 0.0013

Saturn 80110-02-09 18:58 G 30980676.16 30980676.29 30980676.43 0.0268 0.0101

Saturn 80110-05-09 06:58 G 30980764.71 30980764.79 30980764.88 0.0268 0.0215

Mars 80110-10-27 10:48 G 30980935.83 30980935.95 30980936.07 0.1676 0.0038

Pluto 80111-04-27 18:58 G 30981118.29 30981118.29 30981118.29 0.0081 0.0081

Pluto 80111-07-24 20:24 G 30981206.25 30981206.35 30981206.45 0.0081 0.0060

Mars 80111-09-09 10:34 G 30981252.86 30981252.94 30981253.03 0.1842 0.1550

Pluto 80111-10-20 22:05 G 30981294.29 30981294.42 30981294.55 0.0081 0.0040

Earth 80111-12-14 18:58 G 30981349.16 30981349.29 30981349.42 0.2708 0.0772

Moon 80111-12-14 19:56 G 30981349.20 30981349.33 30981349.47 0.2705 0.0574 *

Pluto 80112-01-16 23:32 G 30981382.33 30981382.48 30981382.63 0.0081 0.0019

Pluto 80112-04-14 00:58 G 30981470.39 30981470.54 30981470.70 0.0081 0.0003

Pluto 80112-07-11 02:24 G 30981558.46 30981558.60 30981558.75 0.0081 0.0023

Pluto 80112-10-07 04:05 G 30981646.54 30981646.67 30981646.80 0.0081 0.0043

Pluto 80113-01-03 05:32 G 30981734.64 30981734.73 30981734.83 0.0080 0.0064

Earth 80114-06-14 05:32 G 30982261.62 30982261.73 30982261.84 0.2625 0.1137

Moon 80114-06-14 06:00 G 30982261.64 30982261.75 30982261.87 0.2620 0.1017 *

Jupiter 80114-08-05 06:15 G 30982313.60 30982313.76 30982313.93 0.0528 0.0102

Mars 80120-03-18 21:22 G 30984366.27 30984366.39 30984366.50 0.1671 0.0528

Jupiter 80120-03-23 11:17 G 30984370.83 30984370.97 30984371.11 0.0499 0.0027

Mars 80121-01-29 08:10 G 30984682.68 30984682.84 30984682.99 0.1849 0.0436

Mars 80122-02-22 04:20 G 30985071.63 30985071.68 30985071.72 0.1693 0.1555

Saturn 80123-12-25 19:27 G 30985743.18 30985743.31 30985743.44 0.0292 0.0185

Saturn 80124-03-23 16:34 G 30985832.02 30985832.19 30985832.36 0.0292 0.0007

Saturn 80124-06-20 12:58 G 30985920.91 30985921.04 30985921.18 0.0292 0.0169

Earth 80124-12-16 19:27 G 30986100.18 30986100.31 30986100.43 0.2708 0.1077

Moon 80124-12-16 19:56 G 30986100.21 30986100.33 30986100.46 0.2702 0.1059 *

Jupiter 80126-05-24 05:32 G 30986623.60 30986623.73 30986623.86 0.0527 0.0331

Moon 80127-06-17 01:41 G 30987012.44 30987012.57 30987012.69 0.2618 0.0123

Earth 80127-06-17 01:41 G 30987012.45 30987012.57 30987012.70 0.2625 0.0215 *

Uranus 80128-03-03 17:46 G 30987273.19 30987273.24 30987273.30 0.0144 0.0131

Uranus 80128-05-30 22:05 G 30987361.33 30987361.42 30987361.52 0.0144 0.0108

Uranus 80128-08-27 02:39 G 30987449.49 30987449.61 30987449.72 0.0144 0.0085

Uranus 80128-11-23 06:58 G 30987537.66 30987537.79 30987537.92 0.0144 0.0061

Uranus 80129-02-19 11:32 G 30987625.84 30987625.98 30987626.12 0.0144 0.0037

Uranus 80129-05-18 15:51 G 30987714.02 30987714.16 30987714.31 0.0144 0.0015

Mars 80129-08-09 07:56 G 30987796.73 30987796.83 30987796.92 0.1666 0.1000

Uranus 80129-08-14 20:24 G 30987802.21 30987802.35 30987802.50 0.0144 0.0011

Uranus 80129-11-11 00:58 G 30987890.40 30987890.54 30987890.69 0.0144 0.0035

Uranus 80130-02-07 05:32 G 30987978.60 30987978.73 30987978.87 0.0144 0.0059

Uranus 80130-05-06 10:05 G 30988066.81 30988066.92 30988067.05 0.0144 0.0084

Mars 80130-06-21 05:03 G 30988112.56 30988112.71 30988112.86 0.1857 0.0729

Uranus 80130-08-02 14:53 G 30988155.03 30988155.12 30988155.22 0.0144 0.0108

Uranus 80130-10-29 19:27 G 30988243.27 30988243.31 30988243.37 0.0144 0.0133

Mars 80131-07-15 14:24 G 30988502.00 30988502.10 30988502.19 0.1687 0.1030

Jupiter 80132-01-10 14:53 G 30988680.99 30988681.12 30988681.25 0.0500 0.0139

Jupiter 80138-06-10 07:41 G 30991023.72 30991023.82 30991023.93 0.0530 0.0396

Mars 80138-12-30 18:29 G 30991227.22 30991227.27 30991227.33 0.1662 0.1458

Saturn 80139-01-03 20:53 G 30991231.26 30991231.37 30991231.48 0.0267 0.0163

Saturn 80139-04-02 08:24 G 30991319.71 30991319.85 30991319.99 0.0268 0.0054

Saturn 80139-06-29 20:10 G 30991408.20 30991408.34 30991408.48 0.0268 0.0058

Saturn 80139-09-26 07:56 G 30991496.73 30991496.83 30991496.94 0.0268 0.0172

Moon 80140-06-18 21:22 G 30991763.29 30991763.39 30991763.49 0.2622 0.1536

Earth 80140-06-18 22:05 G 30991763.32 30991763.42 30991763.52 0.2625 0.1570 *

Mars 80140-12-05 00:15 G 30991932.40 30991932.51 30991932.63 0.1682 0.0516

Venus 80141-04-28 11:17 G 30992076.87 30992076.97 30992077.07 0.3729 0.2547

Venus 80142-11-11 03:22 G 30992638.60 30992638.64 30992638.67 0.3642 0.3445

Jupiter 80143-10-29 18:44 G 30992991.17 30992991.28 30992991.39 0.0500 0.0301

Jupiter 80144-01-27 02:39 G 30993080.51 30993080.61 30993080.70 0.0498 0.0361

Earth 80144-12-12 00:00 G 30993400.43 30993400.50 30993400.57 0.2708 0.2321

Moon 80144-12-12 01:12 G 30993400.47 30993400.55 30993400.63 0.2710 0.2157 *

Venus 80146-11-12 13:41 G 30994101.00 30994101.07 30994101.13 0.3728 0.3234

Earth 80147-06-12 14:53 G 30994313.05 30994313.12 30994313.18 0.2625 0.2177

Moon 80147-06-12 15:36 G 30994313.08 30994313.15 30994313.23 0.2623 0.2036 *

Venus 80148-05-26 19:56 G 30994662.23 30994662.33 30994662.44 0.3643 0.0802

Jupiter 80150-03-29 06:29 G 30995333.61 30995333.77 30995333.93 0.0528 0.0156

Mars 80150-04-27 10:48 G 30995362.83 30995362.95 30995363.07 0.1677 0.0022

Mars 80151-03-10 11:17 G 30995679.91 30995679.97 30995680.04 0.1842 0.1651

Saturn 80153-05-13 18:44 G 30996475.19 30996475.28 30996475.39 0.0293 0.0238

Saturn 80153-08-10 16:05 G 30996564.01 30996564.17 30996564.34 0.0293 0.0056

Saturn 80153-11-07 12:44 G 30996652.88 30996653.03 30996653.19 0.0293 0.0122

Venus 80153-12-10 12:44 G 30996685.94 30996686.03 30996686.12 0.3643 0.1906

Jupiter 80155-08-17 22:05 G 30997301.38 30997301.42 30997301.47 0.0502 0.0469

Jupiter 80155-11-15 05:46 G 30997390.62 30997390.74 30997390.88 0.0499 0.0193

Earth 80157-12-15 00:44 G 30998151.39 30998151.53 30998151.66 0.2708 0.0423

Moon 80157-12-15 01:41 G 30998151.44 30998151.57 30998151.71 0.2704 0.0370 *

Mars 80159-09-17 21:08 G 30998793.27 30998793.38 30998793.50 0.1671 0.0471

Earth 80160-06-14 10:48 G 30999063.83 30999063.95 30999064.06 0.2625 0.0873

Moon 80160-06-14 11:03 G 30999063.85 30999063.96 30999064.08 0.2618 0.0896 *

Mars 80160-07-30 08:53 G 30999109.72 30999109.87 30999110.02 0.1849 0.0543

Mars 80161-08-23 04:20 G 30999498.65 30999498.68 30999498.72 0.1693 0.1615

Jupiter 80162-01-15 05:17 G 30999643.55 30999643.72 30999643.88 0.0528 0.0083

Neptune 80166-11-09 19:41 G 31001403.29 31001403.32 31001403.38 0.0090 0.0086

Neptune 80167-02-05 22:34 G 31001491.36 31001491.44 31001491.54 0.0090 0.0076

Neptune 80167-05-05 01:12 G 31001579.45 31001579.55 31001579.68 0.0090 0.0067

Neptune 80167-08-01 03:51 G 31001667.54 31001667.66 31001667.81 0.0090 0.0057

Jupiter 80167-09-03 09:36 G 31001700.77 31001700.90 31001701.04 0.0500 0.0034

Neptune 80167-10-28 06:44 G 31001755.64 31001755.78 31001755.94 0.0090 0.0047

Neptune 80168-01-24 09:36 G 31001843.75 31001843.90 31001844.06 0.0090 0.0037

Neptune 80168-04-21 12:15 G 31001931.85 31001932.01 31001932.18 0.0090 0.0028

Saturn 80168-05-22 23:46 G 31001963.40 31001963.49 31001963.59 0.0267 0.0189

Neptune 80168-07-18 15:08 G 31002019.96 31002020.13 31002020.29 0.0090 0.0018

Saturn 80168-08-19 11:17 G 31002051.84 31002051.97 31002052.11 0.0267 0.0081

Neptune 80168-10-14 17:46 G 31002108.07 31002108.24 31002108.41 0.0090 0.0008

Saturn 80168-11-15 23:03 G 31002140.32 31002140.46 31002140.60 0.0267 0.0030

Neptune 80169-01-10 20:24 G 31002196.18 31002196.35 31002196.52 0.0090 0.0001

Mars 80169-02-07 07:41 G 31002223.73 31002223.82 31002223.92 0.1666 0.0944

Saturn 80169-02-12 10:48 G 31002228.83 31002228.95 31002229.07 0.0268 0.0143

Neptune 80169-04-08 23:03 G 31002284.29 31002284.46 31002284.63 0.0090 0.0011

Saturn 80169-05-11 22:48 G 31002317.42 31002317.45 31002317.49 0.0268 0.0258

Neptune 80169-07-06 01:27 G 31002372.40 31002372.56 31002372.73 0.0090 0.0021

Neptune 80169-10-02 04:05 G 31002460.52 31002460.67 31002460.84 0.0090 0.0030

Mars 80169-12-20 05:46 G 31002539.59 31002539.74 31002539.89 0.1856 0.0620

Neptune 80169-12-29 06:44 G 31002548.64 31002548.78 31002548.94 0.0090 0.0039

Neptune 80170-03-27 09:08 G 31002636.75 31002636.88 31002637.04 0.0090 0.0049

Uranus 80170-06-20 12:58 G 31002722.04 31002722.04 31002722.05 0.0134 0.0134

Neptune 80170-06-23 11:46 G 31002724.88 31002724.99 31002725.13 0.0090 0.0058

Uranus 80170-09-16 18:29 G 31002810.19 31002810.27 31002810.38 0.0134 0.0111

Neptune 80170-09-19 14:39 G 31002813.00 31002813.11 31002813.22 0.0090 0.0067

Uranus 80170-12-14 00:29 G 31002898.39 31002898.52 31002898.65 0.0134 0.0087

Neptune 80170-12-16 16:48 G 31002901.13 31002901.20 31002901.30 0.0090 0.0077

Earth 80170-12-18 00:58 G 31002902.43 31002902.54 31002902.65 0.2708 0.1408

Moon 80170-12-18 01:27 G 31002902.45 31002902.56 31002902.67 0.2702 0.1529 *

Mars 80171-01-13 14:10 G 31002929.00 31002929.09 31002929.19 0.1687 0.1086

Uranus 80171-03-12 06:00 G 31002986.60 31002986.75 31002986.90 0.0134 0.0064

Neptune 80171-03-14 19:27 G 31002989.28 31002989.31 31002989.37 0.0090 0.0086

Uranus 80171-06-08 11:32 G 31003074.82 31003074.98 31003075.14 0.0134 0.0041

Uranus 80171-09-04 17:03 G 31003163.04 31003163.21 31003163.38 0.0134 0.0019

Uranus 80171-12-01 22:34 G 31003251.27 31003251.44 31003251.61 0.0134 0.0005

Uranus 80172-02-28 03:51 G 31003339.50 31003339.66 31003339.83 0.0134 0.0026

Uranus 80172-05-26 09:08 G 31003427.73 31003427.88 31003428.04 0.0134 0.0049

Uranus 80172-08-22 14:24 G 31003515.97 31003516.10 31003516.25 0.0134 0.0071

Uranus 80172-11-18 19:41 G 31003604.21 31003604.32 31003604.45 0.0134 0.0093

Uranus 80173-02-15 00:44 G 31003692.46 31003692.53 31003692.63 0.0134 0.0116

Moon 80173-06-17 06:44 G 31003814.66 31003814.78 31003814.90 0.2619 0.0507

Earth 80173-06-17 06:58 G 31003814.67 31003814.79 31003814.91 0.2625 0.0467 *

Jupiter 80173-11-03 03:36 G 31003953.52 31003953.65 31003953.78 0.0527 0.0328

Mars 80178-06-30 18:29 G 31005654.21 31005654.27 31005654.34 0.1662 0.1402

Mars 80179-05-12 01:41 G 31005969.56 31005969.57 31005969.59 0.1863 0.1844

Jupiter 80179-06-22 13:41 G 31006010.94 31006011.07 31006011.20 0.0500 0.0128

Mars 80180-06-05 00:29 G 31006359.41 31006359.52 31006359.63 0.1682 0.0573

Saturn 80182-12-28 14:24 G 31007295.95 31007296.10 31007296.26 0.0293 0.0116

Saturn 80183-03-27 11:17 G 31007384.81 31007384.97 31007385.14 0.0292 0.0063

Saturn 80183-06-24 07:41 G 31007473.73 31007473.82 31007473.92 0.0292 0.0236

Jupiter 80185-11-20 05:46 G 31008353.63 31008353.74 31008353.85 0.0530 0.0397

Moon 80186-06-20 02:24 G 31008565.51 31008565.60 31008565.70 0.2622 0.1676

Earth 80186-06-20 03:22 G 31008565.55 31008565.64 31008565.72 0.2625 0.1849 *

Mars 80189-10-26 10:48 G 31009789.83 31009789.95 31009790.07 0.1676 0.0077

Mars 80190-09-08 11:46 G 31010106.95 31010106.99 31010107.04 0.1842 0.1741

Earth 80190-12-13 05:46 G 31010202.65 31010202.74 31010202.83 0.2708 0.1960

Moon 80190-12-13 06:58 G 31010202.69 31010202.79 31010202.89 0.2708 0.1821 *

Jupiter 80191-04-10 17:32 G 31010321.12 31010321.23 31010321.34 0.0500 0.0289

Jupiter 80191-07-09 01:12 G 31010410.46 31010410.55 31010410.65 0.0498 0.0374

Earth 80193-06-12 19:56 G 31011115.25 31011115.33 31011115.41 0.2625 0.1925

Moon 80193-06-12 20:39 G 31011115.28 31011115.36 31011115.45 0.2622 0.1860 *

Jupiter 80197-09-08 05:17 G 31012663.57 31012663.72 31012663.88 0.0529 0.0173

Saturn 80197-10-10 00:58 G 31012695.47 31012695.54 31012695.61 0.0267 0.0231

Venus 80197-12-03 11:32 G 31012749.85 31012749.98 31012750.12 0.3729 0.0508

Saturn 80198-01-06 12:15 G 31012783.89 31012784.01 31012784.14 0.0267 0.0124

Saturn 80198-04-04 23:46 G 31012872.35 31012872.49 31012872.63 0.0268 0.0015

Saturn 80198-07-02 11:32 G 31012960.85 31012960.98 31012961.12 0.0268 0.0098

Saturn 80198-09-28 23:32 G 31013049.40 31013049.48 31013049.57 0.0268 0.0212

Mars 80199-03-18 21:08 G 31013220.27 31013220.38 31013220.50 0.1671 0.0415

Venus 80199-06-18 00:58 G 31013311.46 31013311.54 31013311.62 0.3642 0.2462

Mars 80200-01-29 09:51 G 31013536.76 31013536.91 31013537.06 0.1849 0.0661

Mars 80201-02-22 04:20 G 31013925.66 31013925.68 31013925.70 0.1693 0.1664

Jupiter 80203-01-28 21:22 G 31014631.33 31014631.39 31014631.45 0.0501 0.0449

Jupiter 80203-04-28 05:03 G 31014720.58 31014720.71 31014720.84 0.0498 0.0210

Earth 80203-12-17 06:29 G 31014953.63 31014953.77 31014953.90 0.2708 0.0107

Moon 80203-12-17 07:27 G 31014953.67 31014953.81 31014953.94 0.2704 0.0105 *

Venus 80205-01-01 17:46 G 31015335.13 31015335.24 31015335.35 0.3643 0.0232

Earth 80206-06-16 15:51 G 31015866.04 31015866.16 31015866.28 0.2625 0.0616

Moon 80206-06-16 16:05 G 31015866.05 31015866.17 31015866.29 0.2618 0.0538 *

Mars 80208-08-09 07:56 G 31016650.73 31016650.83 31016650.93 0.1666 0.0885

Mars 80209-06-21 06:29 G 31016966.61 31016966.77 31016966.92 0.1856 0.0515

Jupiter 80209-06-28 04:05 G 31016973.50 31016973.67 31016973.83 0.0528 0.0064

Mars 80210-07-15 14:10 G 31017356.01 31017356.09 31017356.18 0.1687 0.1143

Venus 80210-07-18 10:34 G 31017358.87 31017358.94 31017359.00 0.3644 0.2934

Uranus 80212-03-25 01:27 G 31017974.50 31017974.56 31017974.64 0.0144 0.0122

Saturn 80212-05-17 13:12 G 31018027.91 31018028.05 31018028.19 0.0293 0.0174

Uranus 80212-06-21 05:46 G 31018062.65 31018062.74 31018062.85 0.0144 0.0099

Saturn 80212-08-14 10:20 G 31018116.76 31018116.93 31018117.10 0.0293 0.0009

Uranus 80212-09-17 10:20 G 31018150.81 31018150.93 31018151.06 0.0144 0.0076

Saturn 80212-11-11 06:58 G 31018205.66 31018205.79 31018205.92 0.0293 0.0182

Uranus 80212-12-14 14:39 G 31018238.98 31018239.11 31018239.25 0.0144 0.0052

Uranus 80213-03-12 19:12 G 31018327.16 31018327.30 31018327.45 0.0144 0.0028

Uranus 80213-06-08 23:46 G 31018415.35 31018415.49 31018415.64 0.0144 0.0004

Uranus 80213-09-05 04:20 G 31018503.54 31018503.68 31018503.83 0.0144 0.0020

Uranus 80213-12-02 08:53 G 31018591.73 31018591.87 31018592.01 0.0144 0.0044

Uranus 80214-02-28 13:12 G 31018679.93 31018680.05 31018680.19 0.0144 0.0070

Uranus 80214-05-27 18:00 G 31018768.14 31018768.25 31018768.37 0.0144 0.0093

Uranus 80214-08-23 22:34 G 31018856.37 31018856.44 31018856.53 0.0144 0.0118

Uranus 80214-11-20 03:08 G 31018944.63 31018944.63 31018944.66 0.0144 0.0143

Jupiter 80215-02-14 08:24 G 31019030.71 31019030.85 31019030.99 0.0500 0.0041

Moon 80216-12-19 06:44 G 31019704.68 31019704.78 31019704.89 0.2701 0.1689

Earth 80216-12-19 06:44 G 31019704.68 31019704.78 31019704.88 0.2708 0.1753 *

Mars 80217-12-30 18:29 G 31020081.20 31020081.27 31020081.34 0.1662 0.1346

Mars 80218-11-11 02:39 G 31020396.55 31020396.61 31020396.67 0.1863 0.1724

Moon 80219-06-19 11:46 G 31020616.86 31020616.99 31020617.11 0.2620 0.0629

Earth 80219-06-19 12:00 G 31020616.89 31020617.00 31020617.12 0.2625 0.0742 *

Mars 80219-12-06 00:29 G 31020786.41 31020786.52 31020786.63 0.1682 0.0629

Jupiter 80221-04-16 02:39 G 31021283.48 31021283.61 31021283.75 0.0527 0.0302

Jupiter 80226-12-03 12:15 G 31023340.87 31023341.01 31023341.14 0.0500 0.0121

Saturn 80227-02-28 03:51 G 31023427.63 31023427.66 31023427.70 0.0266 0.0257

Saturn 80227-05-27 15:08 G 31023516.02 31023516.13 31023516.25 0.0267 0.0151

Saturn 80227-08-24 02:39 G 31023604.47 31023604.61 31023604.75 0.0267 0.0042

Saturn 80227-11-20 14:24 G 31023692.96 31023693.10 31023693.24 0.0267 0.0069

Saturn 80228-02-17 02:24 G 31023781.49 31023781.60 31023781.70 0.0268 0.0183

Mars 80229-04-27 10:48 G 31024216.83 31024216.95 31024217.07 0.1676 0.0131

Moon 80232-06-21 07:41 G 31025367.74 31025367.82 31025367.89 0.2622 0.2093

Earth 80232-06-21 08:24 G 31025367.78 31025367.85 31025367.93 0.2625 0.2122 *

Jupiter 80233-05-03 04:05 G 31025683.57 31025683.67 31025683.77 0.0529 0.0405

Earth 80236-12-14 11:32 G 31027004.87 31027004.98 31027005.09 0.2708 0.1596

Moon 80236-12-14 12:44 G 31027004.92 31027005.03 31027005.15 0.2707 0.1498 *

Mars 80238-09-17 21:08 G 31027647.27 31027647.38 31027647.50 0.1671 0.0359

Jupiter 80238-09-21 16:20 G 31027651.07 31027651.18 31027651.29 0.0501 0.0278

Jupiter 80238-12-20 00:15 G 31027740.42 31027740.51 31027740.60 0.0498 0.0387

Earth 80239-06-15 00:58 G 31027917.45 31027917.54 31027917.64 0.2625 0.1671

Moon 80239-06-15 01:41 G 31027917.47 31027917.57 31027917.67 0.2620 0.1605 *

Mars 80239-07-31 10:05 G 31027963.77 31027963.92 31027964.07 0.1849 0.0743

Saturn 80241-10-04 11:17 G 31028759.88 31028759.97 31028760.08 0.0293 0.0235

Saturn 80242-01-01 08:53 G 31028848.70 31028848.87 31028849.04 0.0293 0.0053

Saturn 80242-03-31 05:32 G 31028937.58 31028937.73 31028937.89 0.0292 0.0124

Jupiter 80245-02-19 03:22 G 31029993.49 31029993.64 31029993.80 0.0529 0.0180

Mars 80248-02-08 07:41 G 31031077.72 31031077.82 31031077.92 0.1666 0.0835

Neptune 80248-11-02 18:29 G 31031346.26 31031346.27 31031346.32 0.0088 0.0086

Mars 80248-12-20 07:12 G 31031393.64 31031393.80 31031393.96 0.1857 0.0405

Neptune 80249-01-29 20:24 G 31031434.29 31031434.35 31031434.42 0.0088 0.0078

Neptune 80249-04-27 21:51 G 31031522.34 31031522.41 31031522.51 0.0088 0.0071

Neptune 80249-07-24 23:46 G 31031610.39 31031610.49 31031610.59 0.0088 0.0063

Neptune 80249-10-21 01:12 G 31031698.45 31031698.55 31031698.67 0.0088 0.0056

Earth 80249-12-17 12:15 G 31031755.87 31031756.01 31031756.14 0.2708 0.0296

Moon 80249-12-17 12:58 G 31031755.91 31031756.04 31031756.18 0.2704 0.0356 *

Mars 80250-01-13 14:10 G 31031783.01 31031783.09 31031783.18 0.1687 0.1195

Neptune 80250-01-17 03:08 G 31031786.51 31031786.63 31031786.75 0.0088 0.0048

Neptune 80250-04-15 04:34 G 31031874.57 31031874.69 31031874.83 0.0088 0.0041

Jupiter 80250-07-10 20:10 G 31031961.28 31031961.34 31031961.41 0.0501 0.0436

Neptune 80250-07-12 06:29 G 31031962.64 31031962.77 31031962.91 0.0088 0.0033

Jupiter 80250-10-08 03:51 G 31032050.54 31032050.66 31032050.79 0.0498 0.0224

Neptune 80250-10-08 08:10 G 31032050.70 31032050.84 31032050.98 0.0088 0.0025 *

Neptune 80251-01-04 09:51 G 31032138.77 31032138.91 31032139.06 0.0088 0.0018

Neptune 80251-04-02 11:32 G 31032226.84 31032226.98 31032227.13 0.0088 0.0010

Neptune 80251-06-29 13:27 G 31032314.91 31032315.06 31032315.20 0.0088 0.0003

Neptune 80251-09-25 15:08 G 31032402.98 31032403.13 31032403.28 0.0088 0.0006

Neptune 80251-12-22 16:48 G 31032491.05 31032491.20 31032491.35 0.0088 0.0013

Neptune 80252-03-19 18:29 G 31032579.13 31032579.27 31032579.42 0.0088 0.0021

Neptune 80252-06-15 20:10 G 31032667.21 31032667.34 31032667.48 0.0088 0.0029

Moon 80252-06-16 21:22 G 31032668.26 31032668.39 31032668.51 0.2618 0.0375

Earth 80252-06-16 21:08 G 31032668.26 31032668.38 31032668.50 0.2625 0.0357 *

Neptune 80252-09-11 21:51 G 31032755.28 31032755.41 31032755.55 0.0088 0.0037

Neptune 80252-12-08 23:32 G 31032843.36 31032843.48 31032843.62 0.0088 0.0045

Neptune 80253-03-07 01:12 G 31032931.45 31032931.55 31032931.68 0.0088 0.0053

Neptune 80253-06-03 03:08 G 31033019.53 31033019.63 31033019.74 0.0088 0.0061

Neptune 80253-08-30 04:48 G 31033107.62 31033107.70 31033107.80 0.0088 0.0069

Neptune 80253-11-26 06:29 G 31033195.71 31033195.77 31033195.86 0.0088 0.0077

Neptune 80254-02-22 08:10 G 31033283.82 31033283.84 31033283.90 0.0088 0.0085

Venus 80254-07-11 12:00 G 31033422.87 31033423.00 31033423.12 0.3729 0.1524

Uranus 80254-07-11 20:39 G 31033423.31 31033423.36 31033423.44 0.0134 0.0124

Uranus 80254-10-08 02:39 G 31033511.50 31033511.61 31033511.73 0.0134 0.0100

Uranus 80255-01-04 08:10 G 31033599.71 31033599.84 31033599.99 0.0134 0.0077

Uranus 80255-04-02 13:56 G 31033687.92 31033688.08 31033688.24 0.0134 0.0054

Uranus 80255-06-29 19:27 G 31033776.14 31033776.31 31033776.48 0.0134 0.0031

Uranus 80255-09-26 00:58 G 31033864.37 31033864.54 31033864.71 0.0134 0.0009

Uranus 80255-12-23 06:29 G 31033952.60 31033952.77 31033952.94 0.0134 0.0014

Venus 80256-01-23 22:34 G 31033984.35 31033984.44 31033984.54 0.3642 0.1474

Uranus 80256-03-20 11:46 G 31034040.83 31034040.99 31034041.16 0.0134 0.0037

Uranus 80256-06-16 17:03 G 31034129.06 31034129.21 31034129.37 0.0134 0.0059

Uranus 80256-09-12 22:20 G 31034217.30 31034217.43 31034217.57 0.0134 0.0081

Saturn 80256-10-13 16:05 G 31034248.08 31034248.17 31034248.27 0.0267 0.0194

Jupiter 80256-12-08 02:53 G 31034303.46 31034303.62 31034303.79 0.0528 0.0046

Uranus 80256-12-10 03:36 G 31034305.55 31034305.65 31034305.76 0.0134 0.0103

Saturn 80257-01-10 03:36 G 31034336.52 31034336.65 31034336.78 0.0267 0.0086

Uranus 80257-03-08 08:39 G 31034393.82 31034393.86 31034393.94 0.0134 0.0125

Saturn 80257-04-08 15:08 G 31034424.99 31034425.13 31034425.27 0.0267 0.0024

Mars 80257-06-30 18:29 G 31034508.20 31034508.27 31034508.34 0.1662 0.1290

Saturn 80257-07-06 02:53 G 31034513.50 31034513.62 31034513.74 0.0268 0.0136

Saturn 80257-10-02 14:53 G 31034602.08 31034602.12 31034602.17 0.0268 0.0250

Mars 80258-05-12 03:36 G 31034823.57 31034823.65 31034823.73 0.1863 0.1606

Mars 80259-06-06 00:15 G 31035213.41 31035213.51 31035213.62 0.1682 0.0683

Venus 80261-08-08 15:22 G 31036008.04 31036008.14 31036008.24 0.3643 0.1215

Jupiter 80262-07-27 07:41 G 31036360.68 31036360.82 31036360.96 0.0499 0.0062

Moon 80262-12-20 12:15 G 31036506.93 31036507.01 31036507.09 0.2700 0.2141

Earth 80262-12-20 12:15 G 31036506.93 31036507.01 31036507.10 0.2708 0.2091 *

Moon 80265-06-19 16:34 G 31037419.08 31037419.19 31037419.31 0.2620 0.0986

Earth 80265-06-19 17:17 G 31037419.11 31037419.22 31037419.33 0.2625 0.1005 *

Pluto 80268-04-06 19:41 G 31038441.27 31038441.32 31038441.41 0.0063 0.0057

Pluto 80268-07-03 20:53 G 31038529.27 31038529.37 31038529.49 0.0063 0.0046

Jupiter 80268-09-26 01:41 G 31038613.43 31038613.57 31038613.71 0.0527 0.0280

Pluto 80268-09-29 21:51 G 31038617.28 31038617.41 31038617.55 0.0063 0.0035

Mars 80268-10-26 10:48 G 31038643.83 31038643.95 31038644.07 0.1677 0.0187

Pluto 80268-12-26 22:34 G 31038705.30 31038705.44 31038705.61 0.0063 0.0025

Pluto 80269-03-24 23:46 G 31038793.33 31038793.49 31038793.65 0.0063 0.0014

Pluto 80269-06-21 00:44 G 31038881.37 31038881.53 31038881.70 0.0063 0.0003

Pluto 80269-09-17 01:41 G 31038969.40 31038969.57 31038969.73 0.0063 0.0007

Pluto 80269-12-14 02:24 G 31039057.45 31039057.60 31039057.76 0.0063 0.0018

Pluto 80270-03-12 03:22 G 31039145.50 31039145.64 31039145.79 0.0063 0.0029

Pluto 80270-06-08 04:05 G 31039233.55 31039233.67 31039233.81 0.0063 0.0040

Pluto 80270-09-04 04:48 G 31039321.62 31039321.70 31039321.82 0.0063 0.0051

Pluto 80270-12-01 05:32 G 31039409.71 31039409.73 31039409.80 0.0063 0.0062

Saturn 80271-05-21 06:44 G 31039580.63 31039580.78 31039580.94 0.0293 0.0118

Saturn 80271-08-18 03:51 G 31039669.49 31039669.66 31039669.83 0.0293 0.0062

Saturn 80271-11-15 00:15 G 31039758.42 31039758.51 31039758.61 0.0293 0.0237

Jupiter 80274-05-15 11:03 G 31040670.82 31040670.96 31040671.09 0.0500 0.0110

Mars 80278-03-18 21:08 G 31042074.26 31042074.38 31042074.50 0.1671 0.0302

Moon 80278-06-22 12:58 G 31042169.97 31042170.04 31042170.10 0.2623 0.2226

Earth 80278-06-22 13:41 G 31042170.02 31042170.07 31042170.12 0.2625 0.2400 *

Mars 80279-01-29 11:03 G 31042390.82 31042390.96 31042391.10 0.1849 0.0856

Jupiter 80280-07-15 00:15 G 31042923.50 31042923.51 31042923.54 0.0526 0.0519

Jupiter 80280-10-13 03:36 G 31043013.56 31043013.65 31043013.74 0.0529 0.0435

Earth 80282-12-15 17:17 G 31043807.10 31043807.22 31043807.34 0.2708 0.1242

Moon 80282-12-15 18:29 G 31043807.15 31043807.27 31043807.40 0.2706 0.1040 *

Earth 80285-06-15 06:15 G 31044719.65 31044719.76 31044719.86 0.2625 0.1419

Moon 80285-06-15 06:44 G 31044719.67 31044719.78 31044719.89 0.2619 0.1316 *

Saturn 80286-03-02 19:12 G 31044980.22 31044980.30 31044980.37 0.0266 0.0220

Jupiter 80286-03-03 14:53 G 31044981.01 31044981.12 31044981.24 0.0501 0.0270

Saturn 80286-05-30 06:29 G 31045068.64 31045068.77 31045068.90 0.0266 0.0114

Jupiter 80286-05-31 22:48 G 31045070.37 31045070.45 31045070.54 0.0498 0.0396

Saturn 80286-08-26 18:00 G 31045157.11 31045157.25 31045157.39 0.0267 0.0005

Saturn 80286-11-23 05:46 G 31045245.61 31045245.74 31045245.87 0.0267 0.0107

Saturn 80287-02-19 17:46 G 31045334.16 31045334.24 31045334.31 0.0267 0.0221

Mars 80287-08-09 07:41 G 31045504.72 31045504.82 31045504.93 0.1666 0.0776

Mars 80288-06-20 07:56 G 31045820.67 31045820.83 31045820.98 0.1856 0.0304

Mars 80289-07-14 14:10 G 31046210.02 31046210.09 31046210.17 0.1687 0.1254

Jupiter 80292-08-01 02:10 G 31047323.44 31047323.59 31047323.74 0.0528 0.0193

Earth 80295-12-18 18:00 G 31048558.11 31048558.25 31048558.38 0.2708 0.0639

Moon 80295-12-18 18:29 G 31048558.14 31048558.27 31048558.40 0.2703 0.0710 *

Uranus 80296-01-17 05:03 G 31048587.67 31048587.71 31048587.77 0.0144 0.0136

Uranus 80296-04-14 09:22 G 31048675.81 31048675.89 31048675.99 0.0144 0.0113

Uranus 80296-07-11 13:41 G 31048763.97 31048764.07 31048764.20 0.0144 0.0090

Uranus 80296-10-07 18:15 G 31048852.14 31048852.26 31048852.40 0.0144 0.0066

Mars 80296-12-29 18:29 G 31048935.19 31048935.27 31048935.35 0.1661 0.1238

Uranus 80297-01-03 22:48 G 31048940.31 31048940.45 31048940.59 0.0144 0.0042

Uranus 80297-04-02 03:22 G 31049028.50 31049028.64 31049028.78 0.0144 0.0018

Uranus 80297-06-29 07:56 G 31049116.68 31049116.83 31049116.97 0.0144 0.0007

Uranus 80297-09-25 12:15 G 31049204.87 31049205.01 31049205.16 0.0144 0.0031

Mars 80297-11-10 03:51 G 31049250.57 31049250.66 31049250.76 0.1864 0.1515

Jupiter 80297-12-20 18:58 G 31049291.23 31049291.29 31049291.37 0.0502 0.0426

Uranus 80297-12-22 16:48 G 31049293.07 31049293.20 31049293.34 0.0144 0.0055

Jupiter 80298-03-20 02:53 G 31049380.49 31049380.62 31049380.74 0.0499 0.0237

Uranus 80298-03-20 21:36 G 31049381.28 31049381.40 31049381.52 0.0144 0.0079

Uranus 80298-06-17 01:56 G 31049469.49 31049469.58 31049469.69 0.0144 0.0104

Moon 80298-06-18 02:10 G 31049470.47 31049470.59 31049470.72 0.2619 0.0100

Earth 80298-06-18 02:10 G 31049470.47 31049470.59 31049470.72 0.2625 0.0099 *

Uranus 80298-09-13 06:29 G 31049557.72 31049557.77 31049557.85 0.0144 0.0129

Mars 80298-12-05 00:29 G 31049640.41 31049640.52 31049640.62 0.1682 0.0739

Saturn 80300-10-08 05:03 G 31050312.58 31050312.71 31050312.85 0.0293 0.0178

Saturn 80301-01-05 02:24 G 31050401.43 31050401.60 31050401.77 0.0293 0.0005

Saturn 80301-04-03 23:03 G 31050490.33 31050490.46 31050490.59 0.0293 0.0180

Jupiter 80304-05-21 01:12 G 31051633.39 31051633.55 31051633.72 0.0528 0.0038

Venus 80305-08-02 09:36 G 31052071.79 31052071.90 31052072.01 0.3730 0.2334

Venus 80307-02-15 03:36 G 31052633.60 31052633.65 31052633.71 0.3641 0.3113

Mars 80308-04-27 10:48 G 31053070.83 31053070.95 31053071.06 0.1676 0.0243

Moon 80308-12-21 18:00 G 31053309.19 31053309.25 31053309.31 0.2700 0.2371

Earth 80308-12-21 18:00 G 31053309.20 31053309.25 31053309.31 0.2708 0.2433 *

Jupiter 80310-01-07 06:44 G 31053690.64 31053690.78 31053690.91 0.0499 0.0078

Venus 80311-02-16 12:15 G 31054095.96 31054096.01 31054096.05 0.3729 0.3492

Moon 80311-06-21 21:51 G 31054221.30 31054221.41 31054221.52 0.2620 0.1152

Earth 80311-06-21 22:20 G 31054221.33 31054221.43 31054221.54 0.2625 0.1278 *

Venus 80312-08-30 20:24 G 31054657.24 31054657.35 31054657.46 0.3642 0.0477

Saturn 80315-07-21 19:56 G 31055712.32 31055712.33 31055712.36 0.0266 0.0264

Saturn 80315-10-18 07:12 G 31055800.69 31055800.80 31055800.92 0.0267 0.0158

Moon 80315-12-14 23:17 G 31055858.44 31055858.47 31055858.51 0.2710 0.2597

Saturn 80316-01-14 18:44 G 31055889.14 31055889.28 31055889.42 0.0267 0.0049

Jupiter 80316-03-09 00:29 G 31055943.38 31055943.52 31055943.67 0.0527 0.0264

Saturn 80316-04-12 06:15 G 31055977.63 31055977.76 31055977.90 0.0267 0.0061

Saturn 80316-07-09 18:15 G 31056066.15 31056066.26 31056066.36 0.0267 0.0174

Mars 80317-09-17 21:08 G 31056501.26 31056501.38 31056501.49 0.1671 0.0254

Venus 80318-03-16 12:58 G 31056680.96 31056681.04 31056681.13 0.3643 0.2217

Earth 80318-06-14 15:22 G 31056771.10 31056771.14 31056771.18 0.2625 0.2453

Moon 80318-06-14 16:20 G 31056771.12 31056771.18 31056771.23 0.2624 0.2295 *

Mars 80318-07-31 11:46 G 31056817.85 31056817.99 31056818.12 0.1849 0.0963

Jupiter 80321-10-26 10:34 G 31058000.80 31058000.94 31058001.07 0.0500 0.0086

Mars 80327-02-08 07:41 G 31059931.72 31059931.82 31059931.93 0.1666 0.0721

Mars 80327-12-21 08:24 G 31060247.69 31060247.85 31060248.01 0.1856 0.0200

Jupiter 80327-12-26 23:32 G 31060253.43 31060253.48 31060253.53 0.0526 0.0495

Jupiter 80328-03-26 02:39 G 31060343.53 31060343.61 31060343.69 0.0529 0.0459

Earth 80328-12-16 23:03 G 31060609.33 31060609.46 31060609.59 0.2708 0.0883

Moon 80328-12-17 00:15 G 31060609.38 31060609.51 31060609.64 0.2706 0.0816 *

Mars 80329-01-13 14:10 G 31060637.02 31060637.09 31060637.17 0.1687 0.1307

Saturn 80330-02-25 02:10 G 31061044.51 31061044.59 31061044.69 0.0294 0.0249

Saturn 80330-05-24 23:46 G 31061133.33 31061133.49 31061133.66 0.0294 0.0065

Saturn 80330-08-21 20:53 G 31061222.21 31061222.37 31061222.52 0.0293 0.0114

Saturn 80330-11-18 17:03 G 31061311.19 31061311.21 31061311.25 0.0293 0.0288

Earth 80331-06-17 11:17 G 31061521.86 31061521.97 31061522.08 0.2625 0.1158

Moon 80331-06-17 11:46 G 31061521.88 31061521.99 31061522.10 0.2619 0.1144 *

Neptune 80331-08-08 17:17 G 31061574.18 31061574.22 31061574.30 0.0090 0.0084

Neptune 80331-11-04 20:10 G 31061662.26 31061662.34 31061662.45 0.0090 0.0074

Neptune 80332-01-31 23:03 G 31061750.35 31061750.46 31061750.59 0.0090 0.0064

Neptune 80332-04-29 01:56 G 31061838.45 31061838.58 31061838.72 0.0090 0.0054

Neptune 80332-07-26 04:34 G 31061926.55 31061926.69 31061926.85 0.0090 0.0045

Neptune 80332-10-22 07:27 G 31062014.66 31062014.81 31062014.97 0.0090 0.0035

Neptune 80333-01-18 10:05 G 31062102.76 31062102.92 31062103.09 0.0090 0.0025

Neptune 80333-04-16 12:44 G 31062190.87 31062191.03 31062191.21 0.0090 0.0016

Neptune 80333-07-13 15:36 G 31062278.98 31062279.15 31062279.32 0.0090 0.0006

Jupiter 80333-08-14 13:41 G 31062310.95 31062311.07 31062311.19 0.0501 0.0258

Neptune 80333-10-09 18:15 G 31062367.09 31062367.26 31062367.43 0.0090 0.0004

Jupiter 80333-11-11 21:36 G 31062400.32 31062400.40 31062400.48 0.0498 0.0408

Neptune 80334-01-05 20:53 G 31062455.21 31062455.37 31062455.54 0.0090 0.0013

Neptune 80334-04-03 23:32 G 31062543.32 31062543.48 31062543.65 0.0090 0.0023

Neptune 80334-07-01 01:56 G 31062631.43 31062631.58 31062631.75 0.0090 0.0033

Neptune 80334-09-27 04:34 G 31062719.55 31062719.69 31062719.85 0.0090 0.0042

Neptune 80334-12-24 07:27 G 31062807.67 31062807.81 31062807.95 0.0090 0.0051

Neptune 80335-03-22 09:36 G 31062895.80 31062895.90 31062896.04 0.0090 0.0061

Neptune 80335-06-18 12:15 G 31062983.92 31062984.01 31062984.13 0.0090 0.0070

Neptune 80335-09-14 15:08 G 31063072.06 31063072.13 31063072.21 0.0090 0.0079

Neptune 80335-12-11 17:46 G 31063160.21 31063160.24 31063160.27 0.0090 0.0088

Mars 80336-06-30 18:29 G 31063362.19 31063362.27 31063362.35 0.1661 0.1182

Mars 80337-05-12 05:03 G 31063677.60 31063677.71 31063677.81 0.1863 0.1390

Mars 80338-06-06 00:29 G 31064067.41 31064067.52 31064067.62 0.1682 0.0796

Uranus 80338-08-02 05:03 G 31064124.62 31064124.71 31064124.80 0.0134 0.0113

Uranus 80338-10-29 10:34 G 31064212.82 31064212.94 31064213.07 0.0134 0.0090

Uranus 80339-01-25 16:05 G 31064301.03 31064301.17 31064301.33 0.0134 0.0067

Uranus 80339-04-23 21:51 G 31064389.25 31064389.41 31064389.57 0.0134 0.0044

Uranus 80339-07-21 03:22 G 31064477.47 31064477.64 31064477.81 0.0134 0.0021

Uranus 80339-10-17 08:53 G 31064565.70 31064565.87 31064566.04 0.0134 0.0002

Jupiter 80340-01-13 01:41 G 31064653.43 31064653.57 31064653.72 0.0528 0.0227

Uranus 80340-01-13 14:10 G 31064653.93 31064654.09 31064654.26 0.0134 0.0024

Uranus 80340-04-10 19:41 G 31064742.16 31064742.32 31064742.48 0.0134 0.0046

Uranus 80340-07-08 00:44 G 31064830.40 31064830.53 31064830.69 0.0134 0.0070

Uranus 80340-10-04 06:15 G 31064918.64 31064918.76 31064918.89 0.0134 0.0091

Uranus 80340-12-31 11:17 G 31065006.90 31065006.97 31065007.07 0.0134 0.0113

Earth 80341-12-19 23:32 G 31065360.36 31065360.48 31065360.61 0.2708 0.0977

Moon 80341-12-20 00:00 G 31065360.38 31065360.50 31065360.63 0.2701 0.1064 *

Moon 80344-06-19 07:12 G 31066272.67 31066272.80 31066272.92 0.2619 0.0182

Earth 80344-06-19 07:27 G 31066272.68 31066272.81 31066272.93 0.2625 0.0197 *

Saturn 80345-03-06 10:05 G 31066532.83 31066532.92 31066533.03 0.0266 0.0184

Jupiter 80345-06-02 17:32 G 31066621.16 31066621.23 31066621.31 0.0502 0.0418

Saturn 80345-06-02 21:36 G 31066621.26 31066621.40 31066621.53 0.0266 0.0077 *

Saturn 80345-08-30 09:08 G 31066709.74 31066709.88 31066710.02 0.0267 0.0033

Jupiter 80345-08-31 01:27 G 31066710.44 31066710.56 31066710.68 0.0499 0.0245

Mars 80345-11-21 05:17 G 31066792.70 31066792.72 31066792.74 0.1657 0.1631

Saturn 80345-11-26 20:53 G 31066798.25 31066798.37 31066798.49 0.0267 0.0145

Saturn 80346-02-23 08:53 G 31066886.84 31066886.87 31066886.90 0.0267 0.0259

Mars 80347-10-27 10:34 G 31067497.83 31067497.94 31067498.06 0.1676 0.0301

Jupiter 80351-11-01 00:00 G 31068963.34 31068963.50 31068963.67 0.0527 0.0022

Mars 80357-03-18 21:08 G 31070928.26 31070928.38 31070928.50 0.1671 0.0194

Jupiter 80357-06-19 05:17 G 31071020.59 31071020.72 31071020.86 0.0500 0.0088

Moon 80357-06-22 02:53 G 31071023.52 31071023.62 31071023.72 0.2620 0.1489

Earth 80357-06-22 03:36 G 31071023.55 31071023.65 31071023.75 0.2625 0.1543 *

Mars 80358-01-29 12:15 G 31071244.88 31071245.01 31071245.14 0.1849 0.1050

Pluto 80358-12-01 04:48 G 31071550.64 31071550.70 31071550.78 0.0081 0.0071

Pluto 80359-02-27 06:29 G 31071638.66 31071638.77 31071638.89 0.0081 0.0050

Pluto 80359-05-26 07:56 G 31071726.70 31071726.83 31071726.98 0.0081 0.0029

Pluto 80359-08-22 09:36 G 31071814.75 31071814.90 31071815.05 0.0081 0.0008

Saturn 80359-10-11 22:34 G 31071865.29 31071865.44 31071865.60 0.0294 0.0122

Pluto 80359-11-18 11:03 G 31071902.82 31071902.96 31071903.12 0.0081 0.0013

Saturn 80360-01-08 19:41 G 31071954.15 31071954.32 31071954.49 0.0293 0.0058

Pluto 80360-02-14 12:44 G 31071990.89 31071991.03 31071991.17 0.0081 0.0033

Saturn 80360-04-06 16:20 G 31072043.08 31072043.18 31072043.28 0.0293 0.0233

Pluto 80360-05-12 14:10 G 31072078.98 31072079.09 31072079.21 0.0081 0.0054

Pluto 80360-08-08 15:22 G 31072167.10 31072167.14 31072167.21 0.0080 0.0075

Earth 80361-12-15 03:51 G 31072660.61 31072660.66 31072660.72 0.2708 0.2454

Moon 80361-12-15 05:17 G 31072660.66 31072660.72 31072660.78 0.2709 0.2400 *

Venus 80362-03-09 10:05 G 31072744.78 31072744.92 31072745.05 0.3730 0.0290

Jupiter 80363-08-19 23:03 G 31073273.32 31073273.46 31073273.61 0.0527 0.0252

Venus 80363-09-22 01:27 G 31073306.47 31073306.56 31073306.65 0.3642 0.2130

Earth 80364-06-14 20:39 G 31073573.29 31073573.36 31073573.42 0.2625 0.2201

Moon 80364-06-14 21:22 G 31073573.32 31073573.39 31073573.46 0.2622 0.2182 *

Mars 80366-08-09 07:41 G 31074358.71 31074358.82 31074358.93 0.1666 0.0670

Mars 80367-06-21 09:22 G 31074674.73 31074674.89 31074675.05 0.1857 0.0089

Mars 80368-07-14 14:10 G 31075064.02 31075064.09 31075064.16 0.1687 0.1362

Venus 80369-04-06 18:00 G 31075330.14 31075330.25 31075330.36 0.3642 0.0512

Jupiter 80369-04-07 09:22 G 31075330.75 31075330.89 31075331.03 0.0500 0.0072

Saturn 80374-07-24 11:17 G 31077264.90 31077264.97 31077265.04 0.0266 0.0226

Saturn 80374-10-20 22:34 G 31077353.32 31077353.44 31077353.57 0.0266 0.0120

Venus 80374-10-21 10:48 G 31077353.90 31077353.95 31077354.00 0.3643 0.3242

Earth 80374-12-18 04:48 G 31077411.57 31077411.70 31077411.83 0.2708 0.0532

Moon 80374-12-18 05:46 G 31077411.61 31077411.74 31077411.88 0.2706 0.0339 *

Saturn 80375-01-17 10:05 G 31077441.78 31077441.92 31077442.06 0.0267 0.0012

Saturn 80375-04-15 21:36 G 31077530.27 31077530.40 31077530.53 0.0267 0.0100

Jupiter 80375-06-07 22:05 G 31077583.36 31077583.42 31077583.49 0.0526 0.0482

Saturn 80375-07-13 09:36 G 31077618.81 31077618.90 31077618.98 0.0267 0.0212

Jupiter 80375-09-06 01:27 G 31077673.49 31077673.56 31077673.63 0.0529 0.0475

Mars 80375-12-30 18:29 G 31077789.18 31077789.27 31077789.35 0.1662 0.1130

Mars 80376-11-10 05:32 G 31078104.62 31078104.73 31078104.85 0.1863 0.1281

Earth 80377-06-17 16:20 G 31078324.07 31078324.18 31078324.30 0.2625 0.0904

Moon 80377-06-17 16:48 G 31078324.09 31078324.20 31078324.32 0.2619 0.0792 *

Mars 80377-12-05 00:15 G 31078494.41 31078494.51 31078494.62 0.1681 0.0845

Uranus 80380-02-07 12:29 G 31079288.96 31079289.02 31079289.09 0.0144 0.0128

Uranus 80380-05-05 16:48 G 31079377.11 31079377.20 31079377.30 0.0144 0.0105

Uranus 80380-08-01 21:08 G 31079465.27 31079465.38 31079465.50 0.0144 0.0082

Uranus 80380-10-29 01:41 G 31079553.44 31079553.57 31079553.70 0.0144 0.0058

Jupiter 80381-01-24 13:12 G 31079640.93 31079641.05 31079641.18 0.0501 0.0232

Uranus 80381-01-25 06:00 G 31079641.62 31079641.75 31079641.90 0.0144 0.0035

Uranus 80381-04-23 10:34 G 31079729.80 31079729.94 31079730.09 0.0144 0.0011

Jupiter 80381-04-23 21:08 G 31079730.32 31079730.38 31079730.45 0.0498 0.0434

Uranus 80381-07-20 15:08 G 31079817.99 31079818.13 31079818.28 0.0144 0.0013

Uranus 80381-10-16 19:41 G 31079906.18 31079906.32 31079906.46 0.0144 0.0038

Uranus 80382-01-13 00:15 G 31079994.38 31079994.51 31079994.64 0.0144 0.0062

Uranus 80382-04-11 04:48 G 31080082.59 31080082.70 31080082.82 0.0144 0.0086

Uranus 80382-07-08 09:22 G 31080170.80 31080170.89 31080170.99 0.0144 0.0111

Uranus 80382-10-04 13:56 G 31080259.04 31080259.08 31080259.14 0.0144 0.0136

Mars 80385-05-22 05:17 G 31081219.68 31081219.72 31081219.75 0.1657 0.1577

Mars 80387-04-27 10:48 G 31081924.83 31081924.95 31081925.06 0.1676 0.0354

Jupiter 80387-06-25 00:58 G 31081983.39 31081983.54 31081983.68 0.0528 0.0251

Earth 80387-12-21 05:17 G 31082162.60 31082162.72 31082162.84 0.2708 0.1325

Moon 80387-12-21 05:46 G 31082162.62 31082162.74 31082162.86 0.2701 0.1306 *

Saturn 80389-02-27 19:12 G 31082597.18 31082597.30 31082597.43 0.0294 0.0197

Saturn 80389-05-27 16:48 G 31082686.03 31082686.20 31082686.37 0.0294 0.0015

Saturn 80389-08-24 13:27 G 31082774.93 31082775.06 31082775.20 0.0293 0.0164

Moon 80390-06-20 12:15 G 31083074.88 31083075.01 31083075.13 0.2618 0.0364

Earth 80390-06-20 12:29 G 31083074.90 31083075.02 31083075.14 0.2625 0.0440 *

Jupiter 80392-11-12 16:34 G 31083951.11 31083951.19 31083951.27 0.0502 0.0406

Jupiter 80393-02-10 00:15 G 31084040.39 31084040.51 31084040.63 0.0499 0.0257

Mars 80396-09-16 21:08 G 31085355.26 31085355.38 31085355.50 0.1671 0.0142

Mars 80397-07-30 12:58 G 31085671.92 31085672.04 31085672.16 0.1849 0.1155

Jupiter 80399-04-13 00:00 G 31086293.33 31086293.50 31086293.66 0.0527 0.0021

Moon 80403-06-23 08:10 G 31087825.74 31087825.84 31087825.93 0.2622 0.1728

Earth 80403-06-23 08:53 G 31087825.78 31087825.87 31087825.96 0.2625 0.1816 *

Saturn 80403-12-11 14:10 G 31087997.06 31087997.09 31087997.14 0.0266 0.0252

Saturn 80404-03-09 01:27 G 31088085.45 31088085.56 31088085.68 0.0266 0.0146

Saturn 80404-06-05 12:58 G 31088173.90 31088174.04 31088174.18 0.0266 0.0038

Saturn 80404-09-02 00:29 G 31088262.39 31088262.52 31088262.66 0.0267 0.0072

Jupiter 80404-11-29 04:05 G 31088350.53 31088350.67 31088350.80 0.0500 0.0095

Saturn 80404-11-29 12:15 G 31088350.91 31088351.01 31088351.12 0.0267 0.0185

Mars 80406-02-07 07:41 G 31088785.71 31088785.82 31088785.93 0.1666 0.0614

Mars 80406-12-20 09:51 G 31089101.75 31089101.91 31089102.07 0.1856 0.0037

Earth 80407-12-16 09:51 G 31089462.82 31089462.91 31089462.99 0.2708 0.2090

Moon 80407-12-16 11:03 G 31089462.86 31089462.96 31089463.06 0.2709 0.1859 *

Mars 80408-01-13 14:10 G 31089491.03 31089491.09 31089491.16 0.1687 0.1416

Earth 80410-06-16 01:41 G 31090375.49 31090375.57 31090375.65 0.2625 0.1944

Moon 80410-06-16 02:24 G 31090375.51 31090375.60 31090375.69 0.2621 0.1786 *

Jupiter 80411-01-29 22:05 G 31090603.27 31090603.42 31090603.56 0.0526 0.0233

Neptune 80413-07-31 17:32 G 31091517.20 31091517.23 31091517.29 0.0088 0.0083

Neptune 80413-10-27 19:27 G 31091605.24 31091605.31 31091605.39 0.0088 0.0075

Neptune 80414-01-23 20:53 G 31091693.29 31091693.37 31091693.47 0.0088 0.0068

Neptune 80414-04-21 22:48 G 31091781.35 31091781.45 31091781.56 0.0088 0.0060

Neptune 80414-07-19 00:15 G 31091869.41 31091869.51 31091869.64 0.0088 0.0053

Neptune 80414-10-15 02:10 G 31091957.47 31091957.59 31091957.71 0.0088 0.0045

Neptune 80415-01-11 03:36 G 31092045.53 31092045.65 31092045.79 0.0088 0.0038

Neptune 80415-04-09 05:32 G 31092133.59 31092133.73 31092133.87 0.0088 0.0030

Mars 80415-06-30 18:15 G 31092216.18 31092216.26 31092216.35 0.1661 0.1077

Neptune 80415-07-06 06:58 G 31092221.66 31092221.79 31092221.94 0.0088 0.0023

Neptune 80415-10-02 08:53 G 31092309.73 31092309.87 31092310.01 0.0088 0.0015

Neptune 80415-12-29 10:34 G 31092397.79 31092397.94 31092398.09 0.0088 0.0007

Neptune 80416-03-26 12:15 G 31092485.86 31092486.01 31092486.16 0.0088 0.0001

Mars 80416-05-11 06:15 G 31092531.63 31092531.76 31092531.88 0.1864 0.1185

Neptune 80416-06-22 13:56 G 31092573.94 31092574.08 31092574.23 0.0088 0.0009

Jupiter 80416-09-17 07:56 G 31092660.70 31092660.83 31092660.97 0.0501 0.0065

Neptune 80416-09-18 15:36 G 31092662.01 31092662.15 31092662.30 0.0088 0.0017

Neptune 80416-12-15 17:17 G 31092750.09 31092750.22 31092750.37 0.0088 0.0024

Neptune 80417-03-13 19:12 G 31092838.16 31092838.30 31092838.44 0.0088 0.0032

Mars 80417-06-05 00:29 G 31092921.42 31092921.52 31092921.62 0.1682 0.0905

Neptune 80417-06-09 20:53 G 31092926.24 31092926.37 31092926.50 0.0088 0.0040

Neptune 80417-09-05 22:34 G 31093014.32 31093014.44 31093014.57 0.0088 0.0048

Neptune 80417-12-03 00:15 G 31093102.40 31093102.51 31093102.63 0.0088 0.0056

Neptune 80418-03-01 01:56 G 31093190.49 31093190.58 31093190.69 0.0088 0.0064

Neptune 80418-05-28 03:36 G 31093278.58 31093278.65 31093278.75 0.0088 0.0072

Saturn 80418-07-17 18:15 G 31093329.18 31093329.26 31093329.35 0.0294 0.0251

Neptune 80418-08-24 05:17 G 31093366.68 31093366.72 31093366.80 0.0088 0.0080

Venus 80418-10-14 10:20 G 31093417.81 31093417.93 31093418.05 0.3729 0.1727

Saturn 80418-10-14 15:51 G 31093417.99 31093418.16 31093418.33 0.0294 0.0067 *

Neptune 80418-11-20 07:12 G 31093454.80 31093454.80 31093454.83 0.0088 0.0088

Saturn 80419-01-11 12:44 G 31093506.88 31093507.03 31093507.19 0.0293 0.0113

Saturn 80419-04-10 09:08 G 31093595.86 31093595.88 31093595.92 0.0293 0.0286

Venus 80420-04-27 23:03 G 31093979.36 31093979.46 31093979.56 0.3641 0.1147

Earth 80420-12-18 10:34 G 31094213.81 31094213.94 31094214.08 0.2708 0.0175

Moon 80420-12-18 11:32 G 31094213.84 31094213.98 31094214.12 0.2704 0.0160 *

Uranus 80422-05-26 06:58 G 31094737.74 31094737.79 31094737.85 0.0134 0.0127

Uranus 80422-08-22 12:29 G 31094825.93 31094826.02 31094826.14 0.0134 0.0104

Jupiter 80422-11-17 20:39 G 31094913.29 31094913.36 31094913.44 0.0526 0.0469

Uranus 80422-11-18 18:15 G 31094914.13 31094914.26 31094914.41 0.0134 0.0081

Uranus 80423-02-15 00:00 G 31095002.35 31095002.50 31095002.66 0.0134 0.0057

Jupiter 80423-02-15 23:46 G 31095003.43 31095003.49 31095003.56 0.0529 0.0485

Uranus 80423-05-14 05:32 G 31095090.57 31095090.73 31095090.90 0.0134 0.0035

Earth 80423-06-18 21:36 G 31095126.28 31095126.40 31095126.52 0.2625 0.0638

Moon 80423-06-18 21:51 G 31095126.29 31095126.41 31095126.53 0.2619 0.0668 *

Uranus 80423-08-10 11:03 G 31095178.79 31095178.96 31095179.13 0.0134 0.0012

Uranus 80423-11-06 16:34 G 31095267.02 31095267.19 31095267.36 0.0134 0.0011

Uranus 80424-02-02 21:51 G 31095355.25 31095355.41 31095355.58 0.0134 0.0034

Uranus 80424-05-01 03:22 G 31095443.49 31095443.64 31095443.80 0.0134 0.0056

Uranus 80424-07-28 08:39 G 31095531.73 31095531.86 31095532.00 0.0134 0.0078

Uranus 80424-10-24 13:56 G 31095619.98 31095620.08 31095620.20 0.0134 0.0100

Mars 80424-11-20 05:03 G 31095646.67 31095646.71 31095646.75 0.1657 0.1527

Uranus 80425-01-20 19:12 G 31095708.24 31095708.30 31095708.38 0.0134 0.0122

Venus 80425-11-11 15:51 G 31096003.06 31096003.16 31096003.25 0.3642 0.1525

Mars 80426-10-26 10:34 G 31096351.83 31096351.94 31096352.06 0.1676 0.0403

Jupiter 80428-07-06 12:00 G 31096970.88 31096971.00 31096971.13 0.0501 0.0221

Jupiter 80428-10-03 19:56 G 31097060.27 31097060.33 31097060.39 0.0498 0.0446

Saturn 80433-07-27 02:39 G 31098817.52 31098817.61 31098817.71 0.0266 0.0187

Saturn 80433-10-23 14:10 G 31098905.95 31098906.09 31098906.22 0.0266 0.0080

Earth 80433-12-21 11:03 G 31098964.85 31098964.96 31098965.06 0.2708 0.1667

Moon 80433-12-21 11:17 G 31098964.87 31098964.97 31098965.07 0.2701 0.1767 *

Saturn 80434-01-20 01:27 G 31098994.42 31098994.56 31098994.71 0.0267 0.0030

Saturn 80434-04-18 13:12 G 31099082.93 31099083.05 31099083.17 0.0267 0.0140

Saturn 80434-07-16 01:12 G 31099171.51 31099171.55 31099171.59 0.0267 0.0254

Jupiter 80434-12-04 23:32 G 31099313.33 31099313.48 31099313.62 0.0528 0.0262

Mars 80436-03-17 20:53 G 31099782.25 31099782.37 31099782.49 0.1671 0.0103

Moon 80436-06-20 17:17 G 31099877.10 31099877.22 31099877.34 0.2619 0.0715

Earth 80436-06-20 17:46 G 31099877.12 31099877.24 31099877.35 0.2625 0.0711 *

Mars 80437-01-28 13:41 G 31100098.96 31100099.07 31100099.19 0.1849 0.1268

Jupiter 80440-04-24 16:05 G 31101281.08 31101281.17 31101281.26 0.0502 0.0379

Jupiter 80440-07-22 23:46 G 31101370.37 31101370.49 31101370.60 0.0499 0.0283

Mars 80445-08-08 07:41 G 31103212.71 31103212.82 31103212.93 0.1666 0.0557

Mars 80446-06-20 10:34 G 31103528.78 31103528.94 31103529.10 0.1856 0.0119

Jupiter 80446-09-22 22:48 G 31103623.29 31103623.45 31103623.62 0.0527 0.0040

Mars 80447-07-14 14:10 G 31103918.04 31103918.09 31103918.15 0.1687 0.1472

Saturn 80448-03-02 12:29 G 31104149.87 31104150.02 31104150.17 0.0294 0.0142

Saturn 80448-05-30 09:51 G 31104238.74 31104238.91 31104239.08 0.0294 0.0040

Saturn 80448-08-27 06:44 G 31104327.66 31104327.78 31104327.89 0.0293 0.0217

Moon 80449-06-23 13:12 G 31104627.97 31104628.05 31104628.13 0.2623 0.1959

Earth 80449-06-23 13:56 G 31104628.01 31104628.08 31104628.16 0.2625 0.2095 *

Jupiter 80452-05-11 02:39 G 31105680.48 31105680.61 31105680.75 0.0500 0.0106

Earth 80453-12-16 15:36 G 31106265.04 31106265.15 31106265.25 0.2708 0.1729

Moon 80453-12-16 16:48 G 31106265.09 31106265.20 31106265.31 0.2709 0.1656 *

Mars 80454-12-29 18:15 G 31106643.17 31106643.26 31106643.35 0.1661 0.1021

Mars 80455-11-10 06:58 G 31106958.66 31106958.79 31106958.92 0.1863 0.1068

Earth 80456-06-16 06:44 G 31107177.69 31107177.78 31107177.87 0.2625 0.1692

Moon 80456-06-16 07:27 G 31107177.72 31107177.81 31107177.91 0.2621 0.1670 *

Mars 80456-12-04 00:29 G 31107348.42 31107348.52 31107348.61 0.1681 0.0960

Jupiter 80458-07-11 21:36 G 31107933.25 31107933.40 31107933.56 0.0526 0.0198

Saturn 80462-12-14 05:46 G 31109549.66 31109549.74 31109549.82 0.0266 0.0212

Saturn 80463-03-12 17:03 G 31109638.08 31109638.21 31109638.34 0.0266 0.0106

Saturn 80463-06-09 04:34 G 31109726.55 31109726.69 31109726.83 0.0266 0.0004

Saturn 80463-09-05 16:05 G 31109815.05 31109815.17 31109815.30 0.0267 0.0114

Saturn 80463-12-03 04:05 G 31109903.60 31109903.67 31109903.74 0.0267 0.0226

Uranus 80464-02-27 19:41 G 31109990.25 31109990.32 31109990.40 0.0144 0.0122

Jupiter 80464-02-28 06:29 G 31109990.63 31109990.77 31109990.91 0.0501 0.0058

Mars 80464-05-21 05:03 G 31110073.66 31110073.71 31110073.77 0.1657 0.1470

Uranus 80464-05-26 00:00 G 31110078.40 31110078.50 31110078.61 0.0144 0.0098

Uranus 80464-08-22 04:20 G 31110166.57 31110166.68 31110166.81 0.0144 0.0075

Uranus 80464-11-18 08:53 G 31110254.74 31110254.87 31110255.01 0.0144 0.0051

Uranus 80465-02-14 13:27 G 31110342.92 31110343.06 31110343.20 0.0144 0.0028

Uranus 80465-05-13 17:46 G 31110431.10 31110431.24 31110431.39 0.0144 0.0005

Uranus 80465-08-09 22:20 G 31110519.29 31110519.43 31110519.58 0.0144 0.0021

Uranus 80465-11-06 02:53 G 31110607.48 31110607.62 31110607.76 0.0144 0.0045

Uranus 80466-02-02 07:27 G 31110695.68 31110695.81 31110695.94 0.0144 0.0069

Mars 80466-04-26 10:34 G 31110778.83 31110778.94 31110779.06 0.1676 0.0460

Uranus 80466-05-01 11:46 G 31110783.89 31110783.99 31110784.11 0.0144 0.0095

Uranus 80466-07-28 16:34 G 31110872.12 31110872.19 31110872.28 0.0144 0.0118

Uranus 80466-10-24 21:08 G 31110960.38 31110960.38 31110960.41 0.0144 0.0143

Earth 80466-12-19 16:20 G 31111016.05 31111016.18 31111016.31 0.2708 0.0177

Moon 80466-12-19 17:03 G 31111016.08 31111016.21 31111016.35 0.2703 0.0356 *

Moon 80469-06-19 02:53 G 31111928.49 31111928.62 31111928.74 0.2618 0.0315

Earth 80469-06-19 02:39 G 31111928.49 31111928.61 31111928.73 0.2625 0.0380 *

Venus 80469-11-04 07:56 G 31112066.72 31112066.83 31112066.94 0.3730 0.2144

Jupiter 80470-04-29 19:27 G 31112243.23 31112243.31 31112243.40 0.0525 0.0450

Jupiter 80470-07-28 22:34 G 31112333.40 31112333.44 31112333.49 0.0529 0.0502

Venus 80471-05-20 04:05 G 31112628.61 31112628.67 31112628.74 0.3641 0.2778

Venus 80475-05-21 10:34 G 31114090.93 31114090.94 31114090.95 0.3729 0.3713

Mars 80475-09-16 21:08 G 31114209.26 31114209.38 31114209.50 0.1671 0.0062

Jupiter 80475-12-17 10:34 G 31114300.82 31114300.94 31114301.07 0.0501 0.0215

Jupiter 80476-03-15 18:29 G 31114390.21 31114390.27 31114390.33 0.0499 0.0453

Mars 80476-07-29 14:10 G 31114525.98 31114526.09 31114526.19 0.1849 0.1345

Venus 80476-12-02 20:39 G 31114652.26 31114652.36 31114652.47 0.3641 0.0222

Saturn 80477-07-20 11:46 G 31114881.87 31114881.99 31114882.13 0.0294 0.0193

Saturn 80477-10-17 09:22 G 31114970.72 31114970.89 31114971.06 0.0294 0.0012

Saturn 80478-01-14 06:15 G 31115059.63 31115059.76 31115059.90 0.0293 0.0168

Moon 80479-12-22 16:48 G 31115767.11 31115767.20 31115767.29 0.2701 0.1944

Earth 80479-12-22 16:34 G 31115767.11 31115767.19 31115767.28 0.2708 0.2013 *

Jupiter 80482-05-16 21:51 G 31116643.27 31116643.41 31116643.55 0.0528 0.0271

Venus 80482-06-18 13:27 G 31116675.99 31116676.06 31116676.14 0.3643 0.2540

Moon 80482-06-21 22:20 G 31116679.32 31116679.43 31116679.55 0.2619 0.0867

Earth 80482-06-21 22:48 G 31116679.34 31116679.45 31116679.57 0.2625 0.0980 *

Mars 80485-02-06 07:27 G 31117639.70 31117639.81 31117639.93 0.1666 0.0510

Mars 80485-12-19 11:17 G 31117955.82 31117955.97 31117956.13 0.1857 0.0232

Mars 80487-01-12 14:10 G 31118345.04 31118345.09 31118345.14 0.1687 0.1523

Jupiter 80487-10-05 14:39 G 31118611.02 31118611.11 31118611.20 0.0502 0.0371

Jupiter 80488-01-02 22:20 G 31118700.32 31118700.43 31118700.54 0.0499 0.0292

Moon 80489-06-14 17:03 G 31119229.21 31119229.21 31119229.21 0.2624 0.2620

Saturn 80492-05-02 07:12 G 31120281.76 31120281.80 31120281.85 0.0266 0.0250

Saturn 80492-07-29 18:29 G 31120370.16 31120370.27 31120370.39 0.0266 0.0145

Saturn 80492-10-26 05:46 G 31120458.61 31120458.74 31120458.88 0.0266 0.0038

Saturn 80493-01-22 17:32 G 31120547.09 31120547.23 31120547.36 0.0267 0.0073

Saturn 80493-04-21 05:03 G 31120635.62 31120635.71 31120635.82 0.0267 0.0185

Jupiter 80494-03-04 21:08 G 31120953.21 31120953.38 31120953.54 0.0528 0.0044

Mars 80494-06-29 18:15 G 31121070.17 31121070.26 31121070.36 0.1661 0.0966

Mars 80495-05-11 07:41 G 31121385.69 31121385.82 31121385.96 0.1863 0.0957

Moon 80495-06-24 18:15 G 31121430.21 31121430.26 31121430.32 0.2624 0.2309

Earth 80495-06-24 19:12 G 31121430.25 31121430.30 31121430.35 0.2625 0.2366 *

Neptune 80496-05-04 15:22 G 31121745.08 31121745.14 31121745.23 0.0090 0.0081

Mars 80496-06-04 00:15 G 31121775.42 31121775.51 31121775.61 0.1681 0.1008

Neptune 80496-07-31 18:15 G 31121833.17 31121833.26 31121833.38 0.0090 0.0071

Neptune 80496-10-27 21:08 G 31121921.26 31121921.38 31121921.51 0.0090 0.0061

Neptune 80497-01-24 00:00 G 31122009.36 31122009.50 31122009.64 0.0090 0.0051

Neptune 80497-04-22 02:39 G 31122097.47 31122097.61 31122097.77 0.0090 0.0041

Neptune 80497-07-19 05:17 G 31122185.57 31122185.72 31122185.89 0.0090 0.0032

Neptune 80497-10-15 08:10 G 31122273.68 31122273.84 31122274.01 0.0090 0.0022

Neptune 80498-01-11 10:48 G 31122361.79 31122361.95 31122362.13 0.0090 0.0013

Neptune 80498-04-09 13:41 G 31122449.90 31122450.07 31122450.24 0.0090 0.0003

Neptune 80498-07-06 16:20 G 31122538.01 31122538.18 31122538.35 0.0090 0.0007

Neptune 80498-10-02 18:58 G 31122626.12 31122626.29 31122626.46 0.0090 0.0016

Neptune 80498-12-29 21:36 G 31122714.24 31122714.40 31122714.56 0.0090 0.0026

Neptune 80499-03-28 00:00 G 31122802.36 31122802.50 31122802.67 0.0090 0.0036

Neptune 80499-06-24 02:39 G 31122890.48 31122890.61 31122890.77 0.0090 0.0045

Neptune 80499-09-20 05:32 G 31122978.60 31122978.73 31122978.86 0.0090 0.0054

Jupiter 80499-10-22 02:10 G 31123010.46 31123010.59 31123010.73 0.0500 0.0130

Neptune 80499-12-17 07:56 G 31123066.72 31123066.83 31123066.96 0.0090 0.0064

Earth 80499-12-17 21:22 G 31123067.27 31123067.39 31123067.51 0.2708 0.1362

Moon 80499-12-17 22:34 G 31123067.32 31123067.44 31123067.56 0.2707 0.1187 *

Neptune 80500-03-15 10:34 G 31123154.85 31123154.94 31123155.04 0.0090 0.0073

Neptune 80500-06-11 13:12 G 31123242.99 31123243.05 31123243.12 0.0090 0.0082

Earth 80502-06-18 12:00 G 31123979.89 31123980.00 31123980.10 0.2625 0.1438

Moon 80502-06-18 12:29 G 31123979.92 31123980.02 31123980.13 0.2621 0.1312 *

Mars 80503-11-21 05:03 G 31124500.65 31124500.71 31124500.77 0.1657 0.1416

Mars 80505-10-26 10:34 G 31125205.83 31125205.94 31125206.06 0.1676 0.0515

Jupiter 80505-12-22 20:24 G 31125263.20 31125263.35 31125263.51 0.0527 0.0181

Uranus 80506-06-16 14:53 G 31125439.04 31125439.12 31125439.20 0.0134 0.0117

Uranus 80506-09-12 20:24 G 31125527.24 31125527.35 31125527.48 0.0134 0.0094

Saturn 80506-12-08 08:24 G 31125613.79 31125613.85 31125613.93 0.0294 0.0269

Uranus 80506-12-10 02:10 G 31125615.45 31125615.59 31125615.74 0.0134 0.0071

Saturn 80507-03-07 06:15 G 31125702.60 31125702.76 31125702.93 0.0294 0.0083

Uranus 80507-03-08 07:41 G 31125703.67 31125703.82 31125703.99 0.0134 0.0048

Saturn 80507-06-04 03:22 G 31125791.48 31125791.64 31125791.80 0.0294 0.0097

Uranus 80507-06-04 13:27 G 31125791.89 31125792.06 31125792.23 0.0134 0.0025

Uranus 80507-08-31 18:58 G 31125880.12 31125880.29 31125880.46 0.0134 0.0002

Saturn 80507-08-31 23:46 G 31125880.44 31125880.49 31125880.56 0.0293 0.0273 *

Uranus 80507-11-28 00:29 G 31125968.35 31125968.52 31125968.69 0.0134 0.0021

Uranus 80508-02-24 05:46 G 31126056.58 31126056.74 31126056.91 0.0134 0.0043

Uranus 80508-05-22 11:03 G 31126144.82 31126144.96 31126145.12 0.0134 0.0066

Uranus 80508-08-18 16:20 G 31126233.07 31126233.18 31126233.32 0.0134 0.0088

Uranus 80508-11-14 21:36 G 31126321.32 31126321.40 31126321.51 0.0134 0.0110

Uranus 80509-02-11 03:08 G 31126409.60 31126409.63 31126409.66 0.0134 0.0131

Jupiter 80511-08-11 05:17 G 31127320.58 31127320.72 31127320.85 0.0501 0.0050

Earth 80512-12-20 22:05 G 31127818.29 31127818.42 31127818.55 0.2708 0.0532

Moon 80512-12-20 22:48 G 31127818.32 31127818.45 31127818.58 0.2702 0.0537 *

Mars 80515-03-18 20:53 G 31128636.25 31128636.37 31128636.49 0.1671 0.0050

Moon 80515-06-21 07:41 G 31128730.70 31128730.82 31128730.95 0.2618 0.0208

Earth 80515-06-21 07:56 G 31128730.70 31128730.83 31128730.95 0.2625 0.0141 *

Pluto 80515-11-11 04:34 G 31128873.62 31128873.69 31128873.80 0.0063 0.0053

Mars 80516-01-29 14:53 G 31128953.03 31128953.12 31128953.22 0.1849 0.1454

Pluto 80516-02-07 05:46 G 31128961.63 31128961.74 31128961.87 0.0063 0.0042

Pluto 80516-05-05 06:29 G 31129049.64 31129049.77 31129049.93 0.0063 0.0032

Pluto 80516-08-01 07:41 G 31129137.67 31129137.82 31129137.98 0.0063 0.0021

Pluto 80516-10-28 08:39 G 31129225.70 31129225.86 31129226.03 0.0063 0.0010

Pluto 80517-01-24 09:36 G 31129313.73 31129313.90 31129314.07 0.0063 0.0001

Pluto 80517-04-22 10:20 G 31129401.77 31129401.93 31129402.10 0.0063 0.0011

Pluto 80517-07-19 11:03 G 31129489.82 31129489.96 31129490.13 0.0063 0.0022

Jupiter 80517-10-10 19:12 G 31129573.20 31129573.30 31129573.40 0.0526 0.0417

Pluto 80517-10-15 12:15 G 31129577.87 31129578.01 31129578.15 0.0063 0.0033

Pluto 80518-01-11 12:58 G 31129665.93 31129666.04 31129666.17 0.0063 0.0043

Pluto 80518-04-09 13:41 G 31129754.01 31129754.07 31129754.17 0.0063 0.0054

Saturn 80521-12-17 21:36 G 31131102.29 31131102.40 31131102.51 0.0266 0.0170

Saturn 80522-03-16 08:53 G 31131190.74 31131190.87 31131191.01 0.0266 0.0063

Saturn 80522-06-12 20:24 G 31131279.21 31131279.35 31131279.49 0.0266 0.0047

Saturn 80522-09-09 08:10 G 31131367.73 31131367.84 31131367.96 0.0267 0.0158

Jupiter 80523-05-30 08:53 G 31131630.75 31131630.87 31131631.00 0.0501 0.0214

Jupiter 80523-08-27 16:48 G 31131720.15 31131720.20 31131720.26 0.0499 0.0455

Mars 80524-08-08 07:41 G 31132066.70 31132066.82 31132066.93 0.1666 0.0454

Mars 80525-06-20 12:00 G 31132382.84 31132383.00 31132383.16 0.1856 0.0325

Moon 80525-12-23 22:05 G 31132569.36 31132569.42 31132569.48 0.2701 0.2404

Earth 80525-12-23 22:20 G 31132569.37 31132569.43 31132569.49 0.2708 0.2348 *

Venus 80526-06-12 08:24 G 31132739.71 31132739.85 31132739.98 0.3730 0.0129

Mars 80526-07-14 14:10 G 31132772.05 31132772.09 31132772.13 0.1687 0.1581

Venus 80527-12-26 01:56 G 31133301.48 31133301.58 31133301.67 0.3641 0.1797

Moon 80528-06-23 03:22 G 31133481.53 31133481.64 31133481.75 0.2620 0.1244

Earth 80528-06-23 04:05 G 31133481.56 31133481.67 31133481.78 0.2625 0.1246 *

Jupiter 80529-10-27 20:24 G 31133973.22 31133973.35 31133973.49 0.0528 0.0287

Venus 80533-07-10 18:29 G 31135325.16 31135325.27 31135325.37 0.3642 0.0841

Mars 80533-12-29 18:15 G 31135497.16 31135497.26 31135497.36 0.1661 0.0916

Mars 80534-11-10 08:10 G 31135812.70 31135812.84 31135812.99 0.1864 0.0866

Jupiter 80535-03-18 12:58 G 31135940.95 31135941.04 31135941.14 0.0502 0.0370

Jupiter 80535-06-15 20:39 G 31136030.25 31136030.36 31136030.48 0.0499 0.0296

Earth 80535-06-16 21:22 G 31136031.35 31136031.39 31136031.42 0.2625 0.2474

Moon 80535-06-16 22:05 G 31136031.38 31136031.42 31136031.47 0.2623 0.2392 *

Mars 80535-12-05 00:15 G 31136202.42 31136202.51 31136202.61 0.1681 0.1067

Saturn 80536-07-24 06:29 G 31136434.62 31136434.77 31136434.93 0.0294 0.0127

Saturn 80536-10-21 03:51 G 31136523.49 31136523.66 31136523.83 0.0294 0.0054

Saturn 80537-01-18 00:29 G 31136612.42 31136612.52 31136612.62 0.0293 0.0230

Venus 80539-01-24 11:17 G 31137348.95 31137348.97 31137348.99 0.3643 0.3566

Moon 80541-06-25 23:32 G 31138232.44 31138232.48 31138232.52 0.2624 0.2475

Jupiter 80541-08-15 19:27 G 31138283.14 31138283.31 31138283.47 0.0527 0.0052

Mars 80543-05-22 05:03 G 31138927.64 31138927.71 31138927.77 0.1657 0.1367

Mars 80545-04-26 10:34 G 31139632.83 31139632.94 31139633.05 0.1676 0.0562

Earth 80545-12-19 03:08 G 31139869.51 31139869.63 31139869.76 0.2708 0.1001

Moon 80545-12-19 04:20 G 31139869.55 31139869.68 31139869.81 0.2705 0.0876 *

Jupiter 80547-04-04 00:44 G 31140340.39 31140340.53 31140340.66 0.0500 0.0135

Uranus 80547-12-22 22:34 G 31140603.41 31140603.44 31140603.48 0.0144 0.0139

Uranus 80548-03-20 02:53 G 31140691.54 31140691.62 31140691.70 0.0144 0.0116

Uranus 80548-06-16 07:12 G 31140779.69 31140779.80 31140779.91 0.0144 0.0092

Earth 80548-06-18 17:03 G 31140782.10 31140782.21 31140782.32 0.2625 0.1178

Moon 80548-06-18 17:32 G 31140782.12 31140782.23 31140782.34 0.2620 0.1141 *

Uranus 80548-09-12 11:32 G 31140867.86 31140867.98 31140868.11 0.0144 0.0069

Uranus 80548-12-09 16:05 G 31140956.03 31140956.17 31140956.30 0.0144 0.0046

Uranus 80549-03-07 20:24 G 31141044.21 31141044.35 31141044.49 0.0144 0.0022

Uranus 80549-06-04 00:58 G 31141132.39 31141132.54 31141132.68 0.0144 0.0004

Uranus 80549-08-31 05:17 G 31141220.58 31141220.72 31141220.87 0.0144 0.0027

Uranus 80549-11-27 09:51 G 31141308.78 31141308.91 31141309.05 0.0144 0.0051

Uranus 80550-02-23 14:24 G 31141396.98 31141397.10 31141397.23 0.0144 0.0075

Uranus 80550-05-22 18:58 G 31141485.19 31141485.29 31141485.40 0.0144 0.0099

Uranus 80550-08-18 23:32 G 31141573.41 31141573.48 31141573.56 0.0144 0.0124

Saturn 80551-05-06 23:32 G 31141834.39 31141834.48 31141834.57 0.0266 0.0205

Saturn 80551-08-03 10:48 G 31141922.82 31141922.95 31141923.08 0.0266 0.0099

Saturn 80551-10-30 22:05 G 31142011.28 31142011.42 31142011.56 0.0266 0.0012

Saturn 80552-01-27 09:51 G 31142099.78 31142099.91 31142100.03 0.0267 0.0121

Saturn 80552-04-24 21:36 G 31142188.34 31142188.40 31142188.47 0.0267 0.0233

Jupiter 80553-06-03 18:15 G 31142593.11 31142593.26 31142593.42 0.0527 0.0182

Mars 80554-09-16 20:53 G 31143063.25 31143063.37 31143063.49 0.1671 0.0078

Mars 80555-07-30 15:36 G 31143380.07 31143380.15 31143380.24 0.1849 0.1557

Earth 80558-12-22 03:51 G 31144620.53 31144620.66 31144620.79 0.2708 0.0883

Moon 80558-12-22 04:34 G 31144620.56 31144620.69 31144620.81 0.2702 0.1022 *

Jupiter 80559-01-21 04:34 G 31144650.55 31144650.69 31144650.83 0.0500 0.0027

Moon 80561-06-21 12:58 G 31145532.91 31145533.04 31145533.16 0.2618 0.0200

Earth 80561-06-21 12:58 G 31145532.92 31145533.04 31145533.16 0.2625 0.0156 *

Mars 80564-02-07 07:27 G 31146493.70 31146493.81 31146493.93 0.1666 0.0401

Mars 80564-12-19 12:44 G 31146809.87 31146810.03 31146810.18 0.1856 0.0428

Jupiter 80565-03-22 17:32 G 31146903.13 31146903.23 31146903.34 0.0526 0.0407

Saturn 80565-12-11 03:08 G 31147166.51 31147166.63 31147166.76 0.0294 0.0201

Mars 80566-01-12 14:10 G 31147199.06 31147199.09 31147199.12 0.1687 0.1633

Saturn 80566-03-10 00:44 G 31147255.36 31147255.53 31147255.70 0.0294 0.0018

Saturn 80566-06-06 21:36 G 31147344.26 31147344.40 31147344.54 0.0293 0.0161

Jupiter 80570-11-09 07:27 G 31148960.69 31148960.81 31148960.94 0.0501 0.0206

Jupiter 80571-02-06 15:22 G 31149050.09 31149050.14 31149050.19 0.0499 0.0462

Moon 80571-12-25 03:36 G 31149371.61 31149371.65 31149371.69 0.2701 0.2565

Earth 80571-12-25 03:51 G 31149371.66 31149371.66 31149371.67 0.2708 0.2694 *

Mars 80573-06-29 18:15 G 31149924.16 31149924.26 31149924.36 0.1661 0.0860

Mars 80574-05-11 09:08 G 31150239.74 31150239.88 31150240.03 0.1863 0.0746

Moon 80574-06-24 08:24 G 31150283.75 31150283.85 31150283.96 0.2621 0.1366

Earth 80574-06-24 09:08 G 31150283.78 31150283.88 31150283.98 0.2625 0.1524 *

Mars 80575-06-05 00:15 G 31150629.43 31150629.51 31150629.60 0.1681 0.1122

Jupiter 80577-04-08 19:56 G 31151303.20 31151303.33 31151303.46 0.0528 0.0315

Neptune 80578-01-30 15:08 G 31151600.12 31151600.13 31151600.16 0.0088 0.0087

Neptune 80578-04-28 16:34 G 31151688.15 31151688.19 31151688.27 0.0088 0.0080

Neptune 80578-07-25 18:29 G 31151776.19 31151776.27 31151776.36 0.0088 0.0072

Neptune 80578-10-21 19:56 G 31151864.25 31151864.33 31151864.44 0.0088 0.0065

Earth 80578-12-17 07:56 G 31151920.79 31151920.83 31151920.87 0.2708 0.2584

Moon 80578-12-17 09:08 G 31151920.82 31151920.88 31151920.94 0.2711 0.2392 *

Venus 80579-01-16 06:58 G 31151950.76 31151950.79 31151950.83 0.3640 0.3410

Neptune 80579-01-17 21:51 G 31151952.30 31151952.41 31151952.52 0.0088 0.0057

Neptune 80579-04-15 23:17 G 31152040.36 31152040.47 31152040.60 0.0088 0.0050

Neptune 80579-07-13 01:12 G 31152128.42 31152128.55 31152128.68 0.0088 0.0042

Neptune 80579-10-09 02:39 G 31152216.48 31152216.61 31152216.75 0.0088 0.0035

Neptune 80580-01-05 04:34 G 31152304.55 31152304.69 31152304.83 0.0088 0.0027

Neptune 80580-04-02 06:00 G 31152392.62 31152392.75 31152392.90 0.0088 0.0020

Neptune 80580-06-29 07:56 G 31152480.68 31152480.83 31152480.97 0.0088 0.0011

Saturn 80580-09-23 02:24 G 31152566.54 31152566.60 31152566.68 0.0266 0.0230

Neptune 80580-09-25 09:36 G 31152568.75 31152568.90 31152569.05 0.0088 0.0004

Saturn 80580-12-20 13:41 G 31152654.95 31152655.07 31152655.20 0.0266 0.0124

Neptune 80580-12-22 11:17 G 31152656.82 31152656.97 31152657.12 0.0088 0.0004

Saturn 80581-03-19 01:12 G 31152743.41 31152743.55 31152743.69 0.0266 0.0015

Neptune 80581-03-20 12:58 G 31152744.89 31152745.04 31152745.19 0.0088 0.0012

Saturn 80581-06-15 12:44 G 31152831.90 31152832.03 31152832.17 0.0267 0.0095

Neptune 80581-06-16 14:39 G 31152832.97 31152833.11 31152833.26 0.0088 0.0019

Earth 80581-06-17 02:24 G 31152833.53 31152833.60 31152833.66 0.2625 0.2220

Moon 80581-06-17 03:08 G 31152833.56 31152833.63 31152833.70 0.2623 0.2092 *

Saturn 80581-09-12 00:29 G 31152920.44 31152920.52 31152920.61 0.0267 0.0208

Neptune 80581-09-12 16:20 G 31152921.04 31152921.18 31152921.32 0.0088 0.0027

Neptune 80581-12-09 18:15 G 31153009.12 31153009.26 31153009.39 0.0088 0.0035

Neptune 80582-03-07 19:56 G 31153097.20 31153097.33 31153097.46 0.0088 0.0043

Neptune 80582-06-03 21:36 G 31153185.28 31153185.40 31153185.52 0.0088 0.0051

Jupiter 80582-08-28 11:17 G 31153270.88 31153270.97 31153271.06 0.0502 0.0370

Neptune 80582-08-30 23:17 G 31153273.36 31153273.47 31153273.58 0.0088 0.0059

Mars 80582-11-20 05:03 G 31153354.64 31153354.71 31153354.78 0.1657 0.1312

Jupiter 80582-11-25 18:58 G 31153360.18 31153360.29 31153360.40 0.0499 0.0294

Neptune 80582-11-27 00:58 G 31153361.45 31153361.54 31153361.64 0.0088 0.0067

Venus 80583-01-17 08:39 G 31153412.74 31153412.86 31153412.98 0.3730 0.1965

Neptune 80583-02-23 02:39 G 31153449.55 31153449.61 31153449.70 0.0088 0.0075

Neptune 80583-05-22 04:20 G 31153537.65 31153537.68 31153537.74 0.0088 0.0083

Venus 80584-07-31 23:32 G 31153974.37 31153974.48 31153974.59 0.3641 0.0816

Mars 80584-10-25 10:34 G 31154059.83 31154059.94 31154060.05 0.1676 0.0619

Jupiter 80589-01-25 17:46 G 31155613.08 31155613.24 31155613.41 0.0527 0.0064

Venus 80590-02-14 16:05 G 31155998.08 31155998.17 31155998.27 0.3642 0.1846

Uranus 80590-04-09 16:34 G 31156052.17 31156052.19 31156052.23 0.0134 0.0132

Uranus 80590-07-06 22:20 G 31156140.34 31156140.43 31156140.54 0.0134 0.0108

Uranus 80590-10-03 04:05 G 31156228.54 31156228.67 31156228.81 0.0134 0.0085

Uranus 80590-12-30 09:36 G 31156316.76 31156316.90 31156317.07 0.0134 0.0062

Uranus 80591-03-28 15:22 G 31156404.98 31156405.14 31156405.31 0.0134 0.0039

Uranus 80591-06-24 21:08 G 31156493.21 31156493.38 31156493.55 0.0134 0.0016

Uranus 80591-09-21 02:39 G 31156581.44 31156581.61 31156581.78 0.0134 0.0007

Uranus 80591-12-18 07:56 G 31156669.67 31156669.83 31156670.00 0.0134 0.0030

Earth 80591-12-20 08:53 G 31156671.74 31156671.87 31156672.01 0.2708 0.0642

Moon 80591-12-20 10:05 G 31156671.79 31156671.92 31156672.05 0.2704 0.0542 *

Uranus 80592-03-15 13:27 G 31156757.91 31156758.06 31156758.22 0.0134 0.0052

Uranus 80592-06-11 18:58 G 31156846.15 31156846.29 31156846.43 0.0134 0.0074

Uranus 80592-09-08 00:15 G 31156934.40 31156934.51 31156934.63 0.0134 0.0097

Uranus 80592-12-05 05:32 G 31157022.66 31157022.73 31157022.81 0.0134 0.0118

Mars 80594-03-17 20:53 G 31157490.25 31157490.37 31157490.49 0.1671 0.0134

Earth 80594-06-19 22:05 G 31157584.31 31157584.42 31157584.54 0.2625 0.0923

Moon 80594-06-19 22:34 G 31157584.32 31157584.44 31157584.55 0.2618 0.0890 *

Jupiter 80594-09-13 22:48 G 31157670.32 31157670.45 31157670.59 0.0500 0.0134

Mars 80595-01-28 16:05 G 31157807.10 31157807.17 31157807.24 0.1849 0.1639

Saturn 80595-04-30 03:51 G 31157898.57 31157898.66 31157898.76 0.0294 0.0242

Saturn 80595-07-28 01:41 G 31157987.40 31157987.57 31157987.74 0.0294 0.0057

Saturn 80595-10-24 22:34 G 31158076.29 31158076.44 31158076.60 0.0294 0.0123

Jupiter 80600-11-14 16:20 G 31159923.03 31159923.18 31159923.34 0.0526 0.0178

Mars 80603-08-09 07:27 G 31160920.69 31160920.81 31160920.93 0.1666 0.0348

Mars 80604-06-20 13:27 G 31161236.91 31161237.06 31161237.22 0.1857 0.0535

Earth 80604-12-23 09:36 G 31161422.78 31161422.90 31161423.02 0.2708 0.1235

Moon 80604-12-23 10:05 G 31161422.80 31161422.92 31161423.04 0.2702 0.1250 *

Mars 80605-07-14 14:10 G 31161626.09 31161626.09 31161626.09 0.1687 0.1686

Jupiter 80606-07-04 02:53 G 31161980.48 31161980.62 31161980.76 0.0501 0.0028

Pluto 80606-07-06 13:27 G 31161983.01 31161983.06 31161983.15 0.0081 0.0072

Pluto 80606-10-02 15:22 G 31162071.03 31162071.14 31162071.26 0.0081 0.0050

Pluto 80606-12-29 17:03 G 31162159.07 31162159.21 31162159.35 0.0081 0.0030

Pluto 80607-03-27 18:29 G 31162247.12 31162247.27 31162247.42 0.0081 0.0009

Moon 80607-06-23 18:00 G 31162335.13 31162335.25 31162335.37 0.2618 0.0357

Earth 80607-06-23 18:15 G 31162335.13 31162335.26 31162335.38 0.2625 0.0423 *

Pluto 80607-06-23 19:56 G 31162335.18 31162335.33 31162335.48 0.0081 0.0012 *

Pluto 80607-09-19 21:22 G 31162423.26 31162423.39 31162423.54 0.0081 0.0033

Pluto 80607-12-16 23:03 G 31162511.35 31162511.46 31162511.58 0.0081 0.0053

Pluto 80608-03-14 00:15 G 31162599.47 31162599.51 31162599.59 0.0080 0.0074

Saturn 80610-02-11 04:48 G 31163298.68 31163298.70 31163298.73 0.0266 0.0261

Saturn 80610-05-10 15:51 G 31163387.05 31163387.16 31163387.28 0.0266 0.0156

Saturn 80610-08-07 03:22 G 31163475.50 31163475.64 31163475.78 0.0266 0.0049

Saturn 80610-11-03 14:53 G 31163563.98 31163564.12 31163564.25 0.0266 0.0061

Saturn 80611-01-31 02:24 G 31163652.50 31163652.60 31163652.71 0.0267 0.0173

Jupiter 80612-09-02 15:08 G 31164233.03 31164233.13 31164233.23 0.0526 0.0414

Mars 80612-12-29 18:15 G 31164351.15 31164351.26 31164351.36 0.1661 0.0810

Mars 80613-11-10 09:51 G 31164666.76 31164666.91 31164667.06 0.1863 0.0643

Mars 80614-12-05 00:15 G 31165056.42 31165056.51 31165056.59 0.1681 0.1168

Jupiter 80618-04-22 06:44 G 31166290.65 31166290.78 31166290.91 0.0501 0.0188

Jupiter 80618-07-20 14:39 G 31166380.07 31166380.11 31166380.14 0.0498 0.0480

Moon 80620-06-25 13:41 G 31167085.97 31167086.07 31167086.16 0.2622 0.1759

Earth 80620-06-25 14:24 G 31167086.01 31167086.10 31167086.19 0.2625 0.1793 *

Mars 80622-05-22 05:03 G 31167781.63 31167781.71 31167781.78 0.1657 0.1258

Mars 80623-04-02 05:46 G 31168096.73 31168096.74 31168096.74 0.1870 0.1867

Mars 80624-04-26 10:34 G 31168486.83 31168486.94 31168487.05 0.1676 0.0674

Jupiter 80624-09-19 18:00 G 31168633.13 31168633.25 31168633.38 0.0528 0.0321

Saturn 80624-12-14 23:03 G 31168719.30 31168719.46 31168719.61 0.0294 0.0126

Earth 80624-12-18 13:41 G 31168723.00 31168723.07 31168723.15 0.2708 0.2217

Moon 80624-12-18 14:53 G 31168723.04 31168723.12 31168723.20 0.2709 0.2164 *

Saturn 80625-03-13 20:10 G 31168808.18 31168808.34 31168808.51 0.0293 0.0056

Saturn 80625-06-10 17:03 G 31168897.11 31168897.21 31168897.31 0.0293 0.0232

Earth 80627-06-19 07:27 G 31169635.73 31169635.81 31169635.89 0.2625 0.1972

Moon 80627-06-19 08:10 G 31169635.76 31169635.84 31169635.92 0.2622 0.1927 *

Jupiter 80630-02-08 09:51 G 31170600.82 31170600.91 31170601.00 0.0502 0.0365

Jupiter 80630-05-08 17:32 G 31170690.11 31170690.23 31170690.34 0.0499 0.0299

Uranus 80632-01-13 06:00 G 31171304.70 31171304.75 31171304.81 0.0144 0.0131

Uranus 80632-04-10 10:20 G 31171392.84 31171392.93 31171393.03 0.0144 0.0108

Uranus 80632-07-07 14:39 G 31171481.00 31171481.11 31171481.23 0.0144 0.0085

Uranus 80632-10-03 18:58 G 31171569.17 31171569.29 31171569.43 0.0144 0.0061

Uranus 80632-12-30 23:32 G 31171657.34 31171657.48 31171657.62 0.0144 0.0038

Uranus 80633-03-29 03:51 G 31171745.52 31171745.66 31171745.81 0.0144 0.0014

Uranus 80633-06-25 08:24 G 31171833.70 31171833.85 31171833.99 0.0144 0.0010

Mars 80633-09-16 20:53 G 31171917.25 31171917.37 31171917.49 0.1671 0.0184

Uranus 80633-09-21 12:44 G 31171921.89 31171922.03 31171922.18 0.0144 0.0034

Uranus 80633-12-18 17:17 G 31172010.09 31172010.22 31172010.36 0.0144 0.0058

Venus 80634-02-08 06:15 G 31172061.64 31172061.76 31172061.88 0.3731 0.1932

Uranus 80634-03-16 21:51 G 31172098.29 31172098.41 31172098.53 0.0144 0.0083

Uranus 80634-06-13 02:24 G 31172186.51 31172186.60 31172186.70 0.0144 0.0107

Mars 80634-07-30 16:48 G 31172234.15 31172234.20 31172234.25 0.1849 0.1743

Uranus 80634-09-09 06:58 G 31172274.74 31172274.79 31172274.86 0.0144 0.0132

Venus 80635-08-24 04:34 G 31172623.62 31172623.69 31172623.77 0.3640 0.2444

Jupiter 80636-07-08 17:03 G 31172943.05 31172943.21 31172943.37 0.0527 0.0086

Earth 80637-12-21 14:39 G 31173473.98 31173474.11 31173474.25 0.2708 0.0288

Moon 80637-12-21 15:51 G 31173474.02 31173474.16 31173474.29 0.2704 0.0125 *

Saturn 80639-09-27 18:58 G 31174119.19 31174119.29 31174119.39 0.0266 0.0181

Saturn 80639-12-25 06:15 G 31174207.63 31174207.76 31174207.90 0.0266 0.0074

Saturn 80640-03-22 17:46 G 31174296.10 31174296.24 31174296.38 0.0267 0.0036

Saturn 80640-06-19 05:32 G 31174384.61 31174384.73 31174384.85 0.0267 0.0147

Earth 80640-06-21 03:08 G 31174386.52 31174386.63 31174386.75 0.2625 0.0670

Moon 80640-06-21 03:36 G 31174386.53 31174386.65 31174386.77 0.2618 0.0610 *

Saturn 80640-09-15 17:17 G 31174473.20 31174473.22 31174473.26 0.0267 0.0260

Venus 80641-03-08 21:08 G 31174647.27 31174647.38 31174647.49 0.3641 0.0164

Jupiter 80642-02-24 20:53 G 31175000.24 31175000.37 31175000.51 0.0500 0.0131

Mars 80643-02-07 07:27 G 31175347.69 31175347.81 31175347.93 0.1666 0.0293

Mars 80643-12-20 13:56 G 31175663.93 31175664.08 31175664.23 0.1856 0.0627

Venus 80646-09-22 13:56 G 31176671.01 31176671.08 31176671.14 0.3642 0.2856

Jupiter 80648-04-26 14:39 G 31177252.96 31177253.11 31177253.27 0.0526 0.0171

Moon 80650-12-24 15:22 G 31178225.03 31178225.14 31178225.25 0.2701 0.1596

Earth 80650-12-24 15:08 G 31178225.03 31178225.13 31178225.24 0.2708 0.1584 *

Mars 80652-06-29 18:00 G 31178778.15 31178778.25 31178778.36 0.1661 0.0758

Mars 80653-05-11 10:20 G 31179093.78 31179093.93 31179094.09 0.1864 0.0548

Moon 80653-06-23 23:03 G 31179137.34 31179137.46 31179137.58 0.2619 0.0651

Earth 80653-06-23 23:17 G 31179137.35 31179137.47 31179137.59 0.2625 0.0685 *

Jupiter 80653-12-14 00:58 G 31179310.40 31179310.54 31179310.68 0.0501 0.0032

Saturn 80654-05-04 00:15 G 31179451.37 31179451.51 31179451.66 0.0294 0.0161

Mars 80654-06-05 00:15 G 31179483.43 31179483.51 31179483.59 0.1681 0.1228

Saturn 80654-07-31 21:51 G 31179540.24 31179540.41 31179540.58 0.0294 0.0022

Saturn 80654-10-28 18:29 G 31179629.15 31179629.27 31179629.40 0.0294 0.0199

Jupiter 80660-02-13 12:58 G 31181562.94 31181563.04 31181563.14 0.0525 0.0415

Neptune 80660-11-04 10:48 G 31181827.92 31181827.95 31181828.00 0.0090 0.0087

Neptune 80661-01-31 13:41 G 31181915.99 31181916.07 31181916.17 0.0090 0.0077

Neptune 80661-04-29 16:34 G 31182004.09 31182004.19 31182004.31 0.0090 0.0067

Neptune 80661-07-26 19:12 G 31182092.18 31182092.30 31182092.45 0.0090 0.0058

Neptune 80661-10-22 22:05 G 31182180.28 31182180.42 31182180.58 0.0090 0.0048

Mars 80661-11-20 04:48 G 31182208.62 31182208.70 31182208.78 0.1656 0.1208

Neptune 80662-01-19 00:58 G 31182268.39 31182268.54 31182268.70 0.0090 0.0038

Neptune 80662-04-17 03:51 G 31182356.50 31182356.66 31182356.82 0.0090 0.0028

Neptune 80662-07-14 06:29 G 31182444.61 31182444.77 31182444.94 0.0090 0.0018

Mars 80662-10-01 06:29 G 31182523.72 31182523.77 31182523.83 0.1870 0.1749

Neptune 80662-10-10 09:22 G 31182532.72 31182532.89 31182533.06 0.0090 0.0009

Neptune 80663-01-06 12:00 G 31182620.83 31182621.00 31182621.17 0.0090 0.0001

Neptune 80663-04-04 14:39 G 31182708.94 31182709.11 31182709.28 0.0090 0.0011

Neptune 80663-07-01 17:17 G 31182797.06 31182797.22 31182797.39 0.0090 0.0020

Neptune 80663-09-27 19:56 G 31182885.18 31182885.33 31182885.50 0.0090 0.0030

Mars 80663-10-26 10:34 G 31182913.83 31182913.94 31182914.04 0.1676 0.0724

Neptune 80663-12-24 22:20 G 31182973.29 31182973.43 31182973.60 0.0090 0.0040

Neptune 80664-03-22 01:12 G 31183061.42 31183061.55 31183061.70 0.0090 0.0049

Neptune 80664-06-18 03:51 G 31183149.54 31183149.66 31183149.79 0.0090 0.0058

Neptune 80664-09-14 06:15 G 31183237.67 31183237.76 31183237.88 0.0090 0.0068

Neptune 80664-12-11 08:53 G 31183325.80 31183325.87 31183325.97 0.0090 0.0077

Neptune 80665-03-09 11:32 G 31183413.95 31183413.98 31183414.04 0.0090 0.0086

Jupiter 80665-10-02 04:48 G 31183620.58 31183620.70 31183620.83 0.0501 0.0190

Jupiter 80665-12-30 12:44 G 31183709.99 31183710.03 31183710.07 0.0499 0.0478

Moon 80666-06-26 18:44 G 31183888.20 31183888.28 31183888.37 0.2622 0.1909

Earth 80666-06-26 19:41 G 31183888.24 31183888.32 31183888.39 0.2625 0.2066 *

Saturn 80669-02-13 21:36 G 31184851.32 31184851.40 31184851.49 0.0266 0.0210

Saturn 80669-05-13 08:53 G 31184939.74 31184939.87 31184940.00 0.0266 0.0103

Saturn 80669-08-09 20:10 G 31185028.20 31185028.34 31185028.49 0.0266 0.0010

Saturn 80669-11-06 07:56 G 31185116.70 31185116.83 31185116.96 0.0267 0.0116

Saturn 80670-02-02 19:41 G 31185205.25 31185205.32 31185205.39 0.0267 0.0228

Earth 80670-12-19 19:41 G 31185525.22 31185525.32 31185525.42 0.2708 0.1849

Moon 80670-12-19 20:53 G 31185525.26 31185525.37 31185525.48 0.2707 0.1613 *

Mars 80671-04-12 15:51 G 31185639.15 31185639.16 31185639.17 0.1652 0.1643

Jupiter 80672-03-01 15:22 G 31185963.01 31185963.14 31185963.27 0.0528 0.0307

Mars 80673-03-17 20:53 G 31186344.25 31186344.37 31186344.49 0.1671 0.0236

Earth 80673-06-19 12:29 G 31186437.93 31186438.02 31186438.11 0.2625 0.1715

Moon 80673-06-19 13:12 G 31186437.95 31186438.05 31186438.15 0.2621 0.1574 *

Mars 80674-01-28 17:32 G 31186661.23 31186661.23 31186661.24 0.1849 0.1849

Uranus 80674-05-01 00:29 G 31186753.45 31186753.52 31186753.59 0.0134 0.0123

Uranus 80674-07-28 06:00 G 31186841.64 31186841.75 31186841.87 0.0134 0.0099

Uranus 80674-10-24 11:46 G 31186929.85 31186929.99 31186930.14 0.0134 0.0076

Uranus 80675-01-20 17:17 G 31187018.07 31187018.22 31187018.39 0.0134 0.0053

Uranus 80675-04-18 23:03 G 31187106.30 31187106.46 31187106.63 0.0134 0.0030

Uranus 80675-07-16 04:48 G 31187194.52 31187194.70 31187194.87 0.0134 0.0007

Uranus 80675-10-12 10:20 G 31187282.76 31187282.93 31187283.10 0.0134 0.0016

Uranus 80676-01-08 15:36 G 31187370.99 31187371.15 31187371.32 0.0134 0.0039

Uranus 80676-04-05 20:53 G 31187459.23 31187459.37 31187459.53 0.0134 0.0062

Uranus 80676-07-03 02:24 G 31187547.47 31187547.60 31187547.74 0.0134 0.0083

Uranus 80676-09-29 07:41 G 31187635.73 31187635.82 31187635.93 0.0134 0.0106

Uranus 80676-12-26 12:58 G 31187724.00 31187724.04 31187724.10 0.0134 0.0127

Jupiter 80677-07-21 08:53 G 31187930.77 31187930.87 31187930.96 0.0502 0.0351

Jupiter 80677-10-18 16:20 G 31188020.08 31188020.18 31188020.29 0.0499 0.0313

Mars 80682-08-08 07:27 G 31189774.69 31189774.81 31189774.93 0.1666 0.0238

Mars 80683-06-20 14:39 G 31190090.96 31190091.11 31190091.26 0.1856 0.0729

Saturn 80683-09-20 21:51 G 31190183.31 31190183.41 31190183.52 0.0294 0.0227

Saturn 80683-12-18 19:27 G 31190272.14 31190272.31 31190272.48 0.0293 0.0044

Jupiter 80683-12-19 14:53 G 31190272.95 31190273.12 31190273.28 0.0527 0.0085

Earth 80683-12-22 20:24 G 31190276.22 31190276.35 31190276.49 0.2708 0.0086

Moon 80683-12-22 21:22 G 31190276.26 31190276.39 31190276.53 0.2704 0.0139 *

Saturn 80684-03-16 16:34 G 31190361.04 31190361.19 31190361.34 0.0293 0.0136

Earth 80686-06-22 08:24 G 31191188.73 31191188.85 31191188.97 0.2625 0.0405

Moon 80686-06-22 08:39 G 31191188.74 31191188.86 31191188.98 0.2618 0.0412 *

Jupiter 80689-08-06 19:12 G 31192330.17 31192330.30 31192330.44 0.0500 0.0134

Venus 80690-09-15 06:29 G 31192734.63 31192734.77 31192734.91 0.3731 0.0111

Mars 80691-12-29 18:00 G 31193205.14 31193205.25 31193205.36 0.1661 0.0703

Venus 80692-03-30 02:10 G 31193296.49 31193296.59 31193296.69 0.3640 0.1490

Mars 80692-11-09 11:17 G 31193520.81 31193520.97 31193521.13 0.1863 0.0435

Mars 80693-12-04 00:15 G 31193910.44 31193910.51 31193910.59 0.1681 0.1280

Jupiter 80695-10-07 13:41 G 31194582.91 31194583.07 31194583.23 0.0526 0.0152

Moon 80696-12-24 20:53 G 31195027.28 31195027.37 31195027.46 0.2701 0.1951

Earth 80696-12-24 20:53 G 31195027.28 31195027.37 31195027.46 0.2708 0.1925 *

Venus 80697-10-13 18:44 G 31195320.18 31195320.28 31195320.39 0.3641 0.1162

Saturn 80698-07-04 00:29 G 31195583.46 31195583.52 31195583.59 0.0266 0.0236

Saturn 80698-09-30 11:46 G 31195671.87 31195671.99 31195672.11 0.0266 0.0130

Saturn 80698-12-27 23:17 G 31195760.33 31195760.47 31195760.61 0.0267 0.0022

Saturn 80699-03-26 10:48 G 31195848.82 31195848.95 31195849.08 0.0267 0.0089

Saturn 80699-06-22 22:34 G 31195937.35 31195937.44 31195937.53 0.0267 0.0202

Moon 80699-06-25 03:51 G 31195939.55 31195939.66 31195939.78 0.2620 0.0900

Earth 80699-06-25 04:34 G 31195939.57 31195939.69 31195939.80 0.2625 0.0952 *

Mars 80701-05-22 04:48 G 31196635.62 31196635.70 31196635.79 0.1656 0.1153

Jupiter 80701-05-26 22:48 G 31196640.32 31196640.45 31196640.59 0.0501 0.0038

Mars 80702-04-02 06:58 G 31196950.72 31196950.79 31196950.87 0.1870 0.1656

Mars 80703-04-27 10:34 G 31197340.83 31197340.94 31197341.04 0.1676 0.0780

Moon 80706-06-18 22:48 G 31198489.43 31198489.45 31198489.47 0.2625 0.2578

Jupiter 80707-07-27 11:03 G 31198892.86 31198892.96 31198893.06 0.0525 0.0411

Mars 80710-10-12 15:51 G 31200066.13 31200066.16 31200066.18 0.1652 0.1596

Moon 80712-06-28 00:00 G 31200690.44 31200690.50 31200690.56 0.2623 0.2275

Earth 80712-06-28 00:44 G 31200690.48 31200690.53 31200690.59 0.2625 0.2340 *

Mars 80712-09-16 20:53 G 31200771.25 31200771.37 31200771.49 0.1671 0.0289

Saturn 80713-02-07 23:32 G 31200915.41 31200915.48 31200915.57 0.0294 0.0259

Jupiter 80713-03-15 02:53 G 31200950.49 31200950.62 31200950.74 0.0502 0.0197

Saturn 80713-05-07 21:22 G 31201004.23 31201004.39 31201004.56 0.0294 0.0074

Jupiter 80713-06-12 10:34 G 31201039.90 31201039.94 31201039.99 0.0499 0.0472

Saturn 80713-08-04 18:29 G 31201093.12 31201093.27 31201093.43 0.0294 0.0107

Saturn 80713-11-01 15:08 G 31201182.09 31201182.13 31201182.18 0.0293 0.0281

Uranus 80716-02-03 13:41 G 31202006.00 31202006.07 31202006.15 0.0144 0.0123

Uranus 80716-05-01 18:00 G 31202094.15 31202094.25 31202094.35 0.0144 0.0099

Uranus 80716-07-28 22:20 G 31202182.31 31202182.43 31202182.55 0.0144 0.0076

Uranus 80716-10-25 02:39 G 31202270.48 31202270.61 31202270.75 0.0144 0.0053

Earth 80716-12-21 01:27 G 31202327.44 31202327.56 31202327.67 0.2708 0.1486

Moon 80716-12-21 02:39 G 31202327.50 31202327.61 31202327.73 0.2706 0.1436 *

Uranus 80717-01-21 06:58 G 31202358.65 31202358.79 31202358.94 0.0144 0.0030

Uranus 80717-04-19 11:32 G 31202446.84 31202446.98 31202447.12 0.0144 0.0006

Uranus 80717-07-16 15:51 G 31202535.02 31202535.16 31202535.31 0.0144 0.0019

Uranus 80717-10-12 20:24 G 31202623.21 31202623.35 31202623.49 0.0144 0.0042

Uranus 80718-01-09 00:58 G 31202711.41 31202711.54 31202711.67 0.0144 0.0066

Uranus 80718-04-07 05:17 G 31202799.62 31202799.72 31202799.84 0.0144 0.0091

Uranus 80718-07-04 10:05 G 31202887.83 31202887.92 31202888.01 0.0144 0.0115

Uranus 80718-09-30 14:24 G 31202976.08 31202976.10 31202976.14 0.0144 0.0140

Earth 80719-06-21 17:32 G 31203240.13 31203240.23 31203240.33 0.2625 0.1459

Moon 80719-06-21 18:15 G 31203240.16 31203240.26 31203240.36 0.2620 0.1460 *

Jupiter 80719-08-13 12:58 G 31203292.91 31203293.04 31203293.17 0.0528 0.0303

Mars 80722-02-07 07:12 G 31204201.69 31204201.80 31204201.92 0.1666 0.0201

Mars 80722-12-20 15:36 G 31204518.00 31204518.15 31204518.29 0.1857 0.0836

Jupiter 80725-01-01 06:44 G 31205260.69 31205260.78 31205260.88 0.0502 0.0356

Jupiter 80725-03-31 14:24 G 31205349.99 31205350.10 31205350.21 0.0499 0.0309

Saturn 80727-11-22 03:36 G 31206315.63 31206315.65 31206315.67 0.0266 0.0261

Saturn 80728-02-18 14:39 G 31206404.00 31206404.11 31206404.23 0.0266 0.0156

Saturn 80728-05-17 01:56 G 31206492.45 31206492.58 31206492.72 0.0266 0.0049

Saturn 80728-08-13 13:27 G 31206580.93 31206581.06 31206581.20 0.0267 0.0062

Saturn 80728-11-10 01:12 G 31206669.44 31206669.55 31206669.66 0.0267 0.0173

Earth 80729-12-24 02:10 G 31207078.46 31207078.59 31207078.73 0.2708 0.0430

Moon 80729-12-24 02:53 G 31207078.49 31207078.62 31207078.76 0.2703 0.0588 *

Jupiter 80731-06-01 11:46 G 31207602.82 31207602.99 31207603.15 0.0527 0.0067

Mars 80731-06-30 18:00 G 31207632.14 31207632.25 31207632.36 0.1661 0.0649

Mars 80732-05-11 12:00 G 31207947.84 31207948.00 31207948.16 0.1863 0.0327

Moon 80732-06-23 13:41 G 31207990.94 31207991.07 31207991.19 0.2619 0.0082

Earth 80732-06-23 13:27 G 31207990.94 31207991.06 31207991.19 0.2625 0.0166 *

Mars 80733-06-05 00:15 G 31208337.44 31208337.51 31208337.58 0.1681 0.1329

Jupiter 80737-01-17 18:00 G 31209660.12 31209660.25 31209660.39 0.0500 0.0145

Mars 80740-11-20 04:48 G 31211062.61 31211062.70 31211062.79 0.1656 0.1101

Mars 80741-10-01 07:41 G 31211377.74 31211377.82 31211377.92 0.1870 0.1547

Saturn 80742-09-24 19:41 G 31211736.16 31211736.32 31211736.47 0.0293 0.0136

Mars 80742-10-26 10:34 G 31211767.83 31211767.94 31211768.04 0.1676 0.0833

Neptune 80742-10-29 14:39 G 31211771.07 31211771.11 31211771.15 0.0088 0.0083

Saturn 80742-12-22 17:03 G 31211825.04 31211825.21 31211825.37 0.0293 0.0046

Moon 80742-12-27 02:39 G 31211829.53 31211829.61 31211829.68 0.2700 0.2216

Earth 80742-12-27 02:39 G 31211829.54 31211829.61 31211829.68 0.2708 0.2274 *

Neptune 80743-01-25 16:05 G 31211859.11 31211859.17 31211859.25 0.0088 0.0076

Jupiter 80743-03-20 11:03 G 31211912.80 31211912.96 31211913.12 0.0526 0.0160

Saturn 80743-03-21 13:41 G 31211913.97 31211914.07 31211914.18 0.0293 0.0222

Venus 80743-04-22 07:27 G 31211945.76 31211945.81 31211945.86 0.3640 0.3090

Neptune 80743-04-23 17:32 G 31211947.15 31211947.23 31211947.33 0.0088 0.0069

Neptune 80743-07-20 19:12 G 31212035.21 31212035.30 31212035.41 0.0088 0.0061

Neptune 80743-10-16 20:53 G 31212123.26 31212123.37 31212123.49 0.0088 0.0054

Neptune 80744-01-12 22:34 G 31212211.32 31212211.44 31212211.57 0.0088 0.0046

Neptune 80744-04-10 00:15 G 31212299.39 31212299.51 31212299.65 0.0088 0.0038

Neptune 80744-07-07 01:56 G 31212387.45 31212387.58 31212387.72 0.0088 0.0031

Neptune 80744-10-03 03:36 G 31212475.51 31212475.65 31212475.79 0.0088 0.0023

Neptune 80744-12-30 05:17 G 31212563.58 31212563.72 31212563.87 0.0088 0.0016

Neptune 80745-03-28 06:58 G 31212651.65 31212651.79 31212651.94 0.0088 0.0008

Neptune 80745-06-24 08:39 G 31212739.72 31212739.86 31212740.01 0.0088 0.0001

Moon 80745-06-26 09:08 G 31212741.76 31212741.88 31212741.99 0.2620 0.1114

Earth 80745-06-26 09:36 G 31212741.79 31212741.90 31212742.01 0.2625 0.1221 *

Neptune 80745-09-20 10:20 G 31212827.79 31212827.93 31212828.08 0.0088 0.0008

Neptune 80745-12-17 12:00 G 31212915.86 31212916.00 31212916.15 0.0088 0.0015

Neptune 80746-03-15 13:41 G 31213003.93 31213004.07 31213004.22 0.0088 0.0023

Neptune 80746-06-11 15:22 G 31213092.01 31213092.14 31213092.28 0.0088 0.0031

Neptune 80746-09-07 17:03 G 31213180.08 31213180.21 31213180.35 0.0088 0.0039

Neptune 80746-12-04 18:44 G 31213268.16 31213268.28 31213268.41 0.0088 0.0047

Neptune 80747-03-02 20:39 G 31213356.25 31213356.36 31213356.48 0.0088 0.0054

Venus 80747-04-23 06:58 G 31213407.68 31213407.79 31213407.90 0.3731 0.2162

Neptune 80747-05-29 22:20 G 31213444.33 31213444.43 31213444.54 0.0088 0.0062

Neptune 80747-08-26 00:00 G 31213532.42 31213532.50 31213532.60 0.0088 0.0070

Neptune 80747-11-22 01:41 G 31213620.52 31213620.57 31213620.65 0.0088 0.0078

Neptune 80748-02-18 03:22 G 31213708.63 31213708.64 31213708.68 0.0088 0.0086

Venus 80748-11-05 00:00 G 31213969.39 31213969.50 31213969.60 0.3641 0.0521

Jupiter 80748-11-05 21:08 G 31213970.25 31213970.38 31213970.52 0.0500 0.0038

Mars 80750-04-12 15:51 G 31214493.12 31214493.16 31214493.20 0.1652 0.1541

Mars 80752-03-17 20:53 G 31215198.25 31215198.37 31215198.48 0.1671 0.0344

Earth 80752-06-19 03:08 G 31215291.59 31215291.63 31215291.66 0.2625 0.2491

Moon 80752-06-19 03:51 G 31215291.62 31215291.66 31215291.70 0.2624 0.2452 *

Venus 80754-05-21 16:34 G 31215993.10 31215993.19 31215993.28 0.3641 0.2162

Jupiter 80755-01-06 09:36 G 31216222.79 31216222.90 31216223.01 0.0526 0.0398

Saturn 80757-07-07 17:32 G 31217136.13 31217136.23 31217136.33 0.0267 0.0183

Saturn 80757-10-04 04:48 G 31217224.57 31217224.70 31217224.83 0.0267 0.0076

Saturn 80757-12-31 16:20 G 31217313.04 31217313.18 31217313.32 0.0267 0.0034

Saturn 80758-03-30 03:51 G 31217401.55 31217401.66 31217401.78 0.0267 0.0145

Uranus 80758-05-22 07:41 G 31217454.74 31217454.82 31217454.92 0.0134 0.0115

Saturn 80758-06-26 15:51 G 31217490.13 31217490.16 31217490.19 0.0267 0.0259

Moon 80758-06-29 05:03 G 31217492.68 31217492.71 31217492.74 0.2625 0.2509

Earth 80758-06-29 06:00 G 31217492.74 31217492.75 31217492.75 0.2625 0.2614 *

Uranus 80758-08-18 13:27 G 31217542.94 31217543.06 31217543.19 0.0134 0.0091

Uranus 80758-11-14 18:58 G 31217631.15 31217631.29 31217631.45 0.0134 0.0069

Uranus 80759-02-11 00:58 G 31217719.38 31217719.54 31217719.70 0.0134 0.0045

Uranus 80759-05-10 06:29 G 31217807.60 31217807.77 31217807.94 0.0134 0.0022

Uranus 80759-08-06 12:00 G 31217895.83 31217896.00 31217896.17 0.0134 0.0003

Uranus 80759-11-02 17:32 G 31217984.06 31217984.23 31217984.40 0.0134 0.0024

Uranus 80760-01-29 23:03 G 31218072.30 31218072.46 31218072.62 0.0134 0.0047

Uranus 80760-04-27 04:20 G 31218160.54 31218160.68 31218160.83 0.0134 0.0069

Uranus 80760-07-24 09:36 G 31218248.79 31218248.90 31218249.03 0.0134 0.0092

Jupiter 80760-08-25 00:44 G 31218280.41 31218280.53 31218280.66 0.0501 0.0203

Uranus 80760-10-20 15:08 G 31218337.05 31218337.13 31218337.22 0.0134 0.0113

Jupiter 80760-11-22 08:39 G 31218369.81 31218369.86 31218369.91 0.0499 0.0465

Mars 80761-08-08 07:27 G 31218628.69 31218628.81 31218628.93 0.1666 0.0138

Mars 80762-06-20 16:05 G 31218945.03 31218945.17 31218945.30 0.1856 0.0927

Earth 80762-12-22 07:12 G 31219129.68 31219129.80 31219129.92 0.2708 0.1121

Moon 80762-12-22 08:24 G 31219129.72 31219129.85 31219129.98 0.2707 0.0887 *

Pluto 80763-06-16 12:15 G 31219305.96 31219306.01 31219306.11 0.0063 0.0056

Pluto 80763-09-12 13:27 G 31219393.96 31219394.06 31219394.19 0.0063 0.0045

Pluto 80763-12-09 14:10 G 31219481.97 31219482.09 31219482.25 0.0063 0.0035

Pluto 80764-03-06 15:22 G 31219569.99 31219570.14 31219570.30 0.0063 0.0024

Pluto 80764-06-02 16:20 G 31219658.02 31219658.18 31219658.35 0.0063 0.0013

Pluto 80764-08-29 17:17 G 31219746.06 31219746.22 31219746.39 0.0063 0.0003

Pluto 80764-11-25 18:15 G 31219834.09 31219834.26 31219834.42 0.0063 0.0008

Pluto 80765-02-21 18:58 G 31219922.14 31219922.29 31219922.46 0.0063 0.0019

Pluto 80765-05-20 19:56 G 31220010.19 31220010.33 31220010.48 0.0063 0.0029

Earth 80765-06-21 22:48 G 31220042.34 31220042.45 31220042.56 0.2625 0.1202

Moon 80765-06-21 23:17 G 31220042.36 31220042.47 31220042.58 0.2619 0.1062 *

Pluto 80765-08-16 20:39 G 31220098.25 31220098.36 31220098.50 0.0063 0.0040

Pluto 80765-11-12 21:22 G 31220186.32 31220186.39 31220186.51 0.0063 0.0051

Pluto 80766-02-08 22:34 G 31220274.42 31220274.44 31220274.48 0.0063 0.0062

Jupiter 80767-01-23 10:48 G 31220622.82 31220622.95 31220623.09 0.0527 0.0303

Mars 80770-12-29 18:00 G 31222059.14 31222059.25 31222059.36 0.1661 0.0600

Mars 80771-11-10 12:29 G 31222374.86 31222375.02 31222375.18 0.1864 0.0237

Saturn 80772-02-11 21:36 G 31222468.26 31222468.40 31222468.54 0.0294 0.0166

Saturn 80772-05-10 18:58 G 31222557.12 31222557.29 31222557.46 0.0294 0.0018

Jupiter 80772-06-13 04:48 G 31222590.60 31222590.70 31222590.79 0.0502 0.0364

Saturn 80772-08-07 15:51 G 31222646.04 31222646.16 31222646.29 0.0294 0.0195

Jupiter 80772-09-10 12:15 G 31222679.90 31222680.01 31222680.12 0.0500 0.0301

Mars 80772-12-04 00:15 G 31222764.44 31222764.51 31222764.58 0.1681 0.1384

Earth 80775-12-25 07:56 G 31223880.70 31223880.83 31223880.96 0.2708 0.0782

Moon 80775-12-25 08:24 G 31223880.72 31223880.85 31223880.98 0.2702 0.0751 *

Moon 80778-06-24 18:29 G 31224793.15 31224793.27 31224793.40 0.2619 0.0090

Earth 80778-06-24 18:44 G 31224793.16 31224793.28 31224793.40 0.2625 0.0130 *

Jupiter 80778-11-11 09:22 G 31224932.72 31224932.89 31224933.05 0.0527 0.0061

Mars 80780-05-21 04:48 G 31225489.61 31225489.70 31225489.79 0.1656 0.1052

Mars 80781-04-01 08:53 G 31225804.76 31225804.87 31225804.97 0.1870 0.1422

Mars 80782-04-26 10:20 G 31226194.83 31226194.93 31226195.04 0.1676 0.0882

Jupiter 80784-06-29 16:05 G 31226990.04 31226990.17 31226990.30 0.0500 0.0138

Saturn 80786-11-24 20:39 G 31227868.28 31227868.36 31227868.45 0.0266 0.0207

Saturn 80787-02-21 07:56 G 31227956.70 31227956.83 31227956.96 0.0266 0.0101

Saturn 80787-05-20 19:12 G 31228045.16 31228045.30 31228045.44 0.0267 0.0011

Saturn 80787-08-17 06:58 G 31228133.66 31228133.79 31228133.91 0.0267 0.0119

Saturn 80787-11-13 18:44 G 31228222.21 31228222.28 31228222.35 0.0267 0.0231

Earth 80788-12-27 08:10 G 31228631.81 31228631.84 31228631.88 0.2708 0.2615

Moon 80788-12-27 08:10 G 31228631.82 31228631.84 31228631.86 0.2701 0.2650 *

Mars 80789-10-11 15:36 G 31228920.11 31228920.15 31228920.20 0.1652 0.1489

Jupiter 80790-08-30 07:41 G 31229242.67 31229242.82 31229242.98 0.0526 0.0181

Moon 80791-06-27 14:10 G 31229543.99 31229544.09 31229544.19 0.2620 0.1464

Earth 80791-06-27 14:53 G 31229544.02 31229544.12 31229544.22 0.2625 0.1495 *

Mars 80791-09-16 20:53 G 31229625.25 31229625.37 31229625.48 0.1671 0.0398

Moon 80795-12-20 13:12 G 31231181.01 31231181.05 31231181.09 0.2709 0.2569

Jupiter 80796-04-17 19:56 G 31231300.19 31231300.33 31231300.47 0.0501 0.0025

Venus 80798-05-14 04:20 G 31232056.56 31232056.68 31232056.80 0.3732 0.1783

Earth 80798-06-20 08:10 G 31232093.78 31232093.84 31232093.90 0.2624 0.2244

Moon 80798-06-20 08:53 G 31232093.80 31232093.87 31232093.94 0.2622 0.2123 *

Venus 80799-11-27 05:03 G 31232618.62 31232618.71 31232618.80 0.3640 0.2127

Uranus 80799-11-27 17:17 G 31232619.18 31232619.22 31232619.26 0.0144 0.0136

Uranus 80800-02-23 21:36 G 31232707.31 31232707.40 31232707.48 0.0144 0.0113

Uranus 80800-05-22 01:41 G 31232795.47 31232795.57 31232795.69 0.0144 0.0091

Uranus 80800-08-18 06:00 G 31232883.63 31232883.75 31232883.88 0.0144 0.0067

Uranus 80800-11-14 10:20 G 31232971.80 31232971.93 31232972.08 0.0144 0.0044

Mars 80801-02-06 07:27 G 31233055.69 31233055.81 31233055.92 0.1666 0.0099

Uranus 80801-02-10 14:53 G 31233059.98 31233060.12 31233060.26 0.0144 0.0020

Uranus 80801-05-09 19:12 G 31233148.16 31233148.30 31233148.45 0.0144 0.0006

Saturn 80801-06-30 19:56 G 31233200.23 31233200.33 31233200.44 0.0294 0.0225

Uranus 80801-08-05 23:46 G 31233236.35 31233236.49 31233236.63 0.0144 0.0028

Saturn 80801-09-27 17:46 G 31233289.07 31233289.24 31233289.41 0.0293 0.0042

Uranus 80801-11-02 04:05 G 31233324.54 31233324.67 31233324.81 0.0144 0.0052

Mars 80801-12-19 16:34 G 31233372.06 31233372.19 31233372.33 0.1856 0.1027

Saturn 80801-12-25 14:39 G 31233377.97 31233378.11 31233378.26 0.0293 0.0138

Uranus 80802-01-29 08:39 G 31233412.74 31233412.86 31233412.99 0.0144 0.0076

Uranus 80802-04-27 13:12 G 31233500.95 31233501.05 31233501.16 0.0144 0.0100

Jupiter 80802-06-18 06:44 G 31233552.68 31233552.78 31233552.89 0.0526 0.0411

Uranus 80802-07-24 17:46 G 31233589.17 31233589.24 31233589.32 0.0144 0.0124

Venus 80805-06-11 21:36 G 31234642.29 31234642.40 31234642.51 0.3641 0.0482

Jupiter 80808-02-04 23:03 G 31235610.34 31235610.46 31235610.59 0.0501 0.0201

Jupiter 80808-05-04 06:44 G 31235699.74 31235699.78 31235699.83 0.0499 0.0466

Earth 80808-12-22 12:58 G 31235931.91 31235932.04 31235932.17 0.2708 0.0756

Moon 80808-12-22 14:10 G 31235931.96 31235932.09 31235932.22 0.2706 0.0700 *

Mars 80810-06-29 18:00 G 31236486.13 31236486.25 31236486.36 0.1661 0.0547

Venus 80810-12-26 14:10 G 31236666.04 31236666.09 31236666.15 0.3641 0.3172

Mars 80811-05-11 13:27 G 31236801.90 31236802.06 31236802.22 0.1863 0.0126

Earth 80811-06-23 03:51 G 31236844.55 31236844.66 31236844.77 0.2625 0.0943

Moon 80811-06-23 04:20 G 31236844.57 31236844.68 31236844.80 0.2619 0.0948 *

Mars 80812-06-04 00:15 G 31237191.45 31237191.51 31237191.57 0.1681 0.1439

Jupiter 80814-07-05 09:22 G 31237952.76 31237952.89 31237953.02 0.0528 0.0314

Saturn 80816-04-12 23:17 G 31238600.41 31238600.47 31238600.53 0.0267 0.0236

Saturn 80816-07-10 10:20 G 31238688.81 31238688.93 31238689.06 0.0267 0.0131

Saturn 80816-10-06 21:51 G 31238777.27 31238777.41 31238777.55 0.0267 0.0022

Saturn 80817-01-03 09:22 G 31238865.76 31238865.89 31238866.03 0.0267 0.0089

Saturn 80817-04-01 21:08 G 31238954.29 31238954.38 31238954.48 0.0267 0.0202

Mars 80819-11-20 04:48 G 31239916.60 31239916.70 31239916.79 0.1656 0.0998

Jupiter 80819-11-24 02:53 G 31239920.53 31239920.62 31239920.71 0.0502 0.0367

Jupiter 80820-02-21 10:20 G 31240009.82 31240009.93 31240010.04 0.0499 0.0296

Mars 80820-09-30 09:08 G 31240231.77 31240231.88 31240231.99 0.1870 0.1340

Mars 80821-10-25 10:20 G 31240621.84 31240621.93 31240622.03 0.1676 0.0938

Earth 80821-12-25 13:41 G 31240682.95 31240683.07 31240683.19 0.2708 0.1137

Moon 80821-12-25 14:10 G 31240682.97 31240683.09 31240683.21 0.2701 0.1272 *

Moon 80824-06-24 23:32 G 31241595.36 31241595.48 31241595.60 0.2618 0.0432

Earth 80824-06-24 23:46 G 31241595.37 31241595.49 31241595.61 0.2625 0.0402 *

Neptune 80825-08-02 09:08 G 31241998.83 31241998.88 31241998.96 0.0090 0.0083

Neptune 80825-10-29 12:00 G 31242086.91 31242087.00 31242087.11 0.0090 0.0073

Neptune 80826-01-25 14:53 G 31242175.01 31242175.12 31242175.25 0.0090 0.0063

Jupiter 80826-04-23 07:12 G 31242262.63 31242262.80 31242262.96 0.0527 0.0062

Neptune 80826-04-23 17:32 G 31242263.11 31242263.23 31242263.38 0.0090 0.0054

Neptune 80826-07-20 20:24 G 31242351.21 31242351.35 31242351.51 0.0090 0.0044

Neptune 80826-10-16 23:17 G 31242439.32 31242439.47 31242439.64 0.0090 0.0034

Neptune 80827-01-13 02:10 G 31242527.43 31242527.59 31242527.76 0.0090 0.0024

Neptune 80827-04-11 04:48 G 31242615.54 31242615.70 31242615.88 0.0090 0.0014

Neptune 80827-07-08 07:41 G 31242703.65 31242703.82 31242703.99 0.0090 0.0004

Neptune 80827-10-04 10:20 G 31242791.76 31242791.93 31242792.11 0.0090 0.0006

Neptune 80827-12-31 13:12 G 31242879.88 31242880.05 31242880.22 0.0090 0.0015

Neptune 80828-03-28 15:36 G 31242968.00 31242968.15 31242968.32 0.0090 0.0025

Neptune 80828-06-24 18:29 G 31243056.11 31243056.27 31243056.43 0.0090 0.0034

Neptune 80828-09-20 20:53 G 31243144.24 31243144.37 31243144.53 0.0090 0.0044

Neptune 80828-12-17 23:46 G 31243232.36 31243232.49 31243232.63 0.0090 0.0053

Neptune 80829-03-16 02:10 G 31243320.48 31243320.59 31243320.72 0.0090 0.0063

Mars 80829-04-11 15:36 G 31243347.09 31243347.15 31243347.21 0.1652 0.1439

Neptune 80829-06-12 04:48 G 31243408.61 31243408.70 31243408.81 0.0090 0.0072

Neptune 80829-09-08 07:27 G 31243496.75 31243496.81 31243496.89 0.0090 0.0081

Saturn 80830-11-17 21:51 G 31243932.33 31243932.41 31243932.50 0.0294 0.0256

Saturn 80831-02-14 19:41 G 31244021.16 31244021.32 31244021.49 0.0294 0.0071

Mars 80831-03-17 20:53 G 31244052.25 31244052.37 31244052.48 0.1671 0.0449

Saturn 80831-05-14 16:48 G 31244110.05 31244110.20 31244110.36 0.0294 0.0110

Saturn 80831-08-11 13:27 G 31244199.03 31244199.06 31244199.11 0.0293 0.0285

Jupiter 80831-12-10 13:56 G 31244319.95 31244320.08 31244320.22 0.0500 0.0132

Moon 80837-06-27 19:12 G 31246346.21 31246346.30 31246346.40 0.2621 0.1622

Earth 80837-06-27 19:56 G 31246346.24 31246346.33 31246346.42 0.2625 0.1768 *

Jupiter 80838-02-09 05:17 G 31246572.57 31246572.72 31246572.88 0.0526 0.0185

Mars 80840-08-07 07:12 G 31247482.68 31247482.80 31247482.92 0.1666 0.0036

Mars 80841-06-19 17:32 G 31247799.11 31247799.23 31247799.36 0.1857 0.1132

Earth 80841-12-20 17:46 G 31247983.17 31247983.24 31247983.31 0.2708 0.2346

Moon 80841-12-20 18:58 G 31247983.22 31247983.29 31247983.37 0.2709 0.2189 *

Uranus 80842-03-15 09:08 G 31248067.86 31248067.88 31248067.94 0.0134 0.0130

Uranus 80842-06-11 15:08 G 31248156.03 31248156.13 31248156.24 0.0134 0.0106

Uranus 80842-09-07 20:39 G 31248244.24 31248244.36 31248244.51 0.0134 0.0084

Uranus 80842-12-05 02:39 G 31248332.46 31248332.61 31248332.77 0.0134 0.0060

Uranus 80843-03-03 08:24 G 31248420.68 31248420.85 31248421.01 0.0134 0.0036

Uranus 80843-05-30 13:56 G 31248508.91 31248509.08 31248509.25 0.0134 0.0013

Uranus 80843-08-26 19:27 G 31248597.14 31248597.31 31248597.48 0.0134 0.0009

Jupiter 80843-09-28 17:46 G 31248630.11 31248630.24 31248630.38 0.0501 0.0033

Uranus 80843-11-23 00:58 G 31248685.37 31248685.54 31248685.71 0.0134 0.0032

Uranus 80844-02-19 06:29 G 31248773.61 31248773.77 31248773.92 0.0134 0.0055

Uranus 80844-05-17 11:46 G 31248861.86 31248861.99 31248862.13 0.0134 0.0077

Earth 80844-06-20 13:12 G 31248895.97 31248896.05 31248896.13 0.2624 0.1988

Moon 80844-06-20 13:56 G 31248896.00 31248896.08 31248896.16 0.2621 0.1907 *

Uranus 80844-08-13 17:03 G 31248950.11 31248950.21 31248950.33 0.0134 0.0099

Uranus 80844-11-09 22:20 G 31249038.37 31249038.43 31249038.51 0.0134 0.0122

Saturn 80845-08-31 02:24 G 31249332.58 31249332.60 31249332.64 0.0266 0.0259

Saturn 80845-11-27 13:41 G 31249420.96 31249421.07 31249421.19 0.0266 0.0153

Saturn 80846-02-24 00:58 G 31249509.41 31249509.54 31249509.68 0.0266 0.0047

Saturn 80846-05-23 12:29 G 31249597.89 31249598.02 31249598.16 0.0267 0.0065

Saturn 80846-08-20 00:15 G 31249686.41 31249686.51 31249686.62 0.0267 0.0176

Jupiter 80849-11-28 03:22 G 31250882.55 31250882.64 31250882.74 0.0525 0.0431

Mars 80849-12-28 18:00 G 31250913.13 31250913.25 31250913.36 0.1661 0.0495

Jupiter 80850-02-26 06:58 G 31250972.78 31250972.79 31250972.81 0.0528 0.0526

Mars 80850-11-09 13:56 G 31251228.92 31251229.08 31251229.24 0.1863 0.0033

Mars 80851-12-04 00:15 G 31251618.45 31251618.51 31251618.56 0.1681 0.1487

Pluto 80854-02-07 21:36 G 31252415.39 31252415.40 31252415.43 0.0081 0.0081

Pluto 80854-05-06 23:03 G 31252503.37 31252503.46 31252503.57 0.0081 0.0060

Pluto 80854-08-03 00:44 G 31252591.41 31252591.53 31252591.67 0.0081 0.0039

Pluto 80854-10-30 02:24 G 31252679.45 31252679.60 31252679.75 0.0081 0.0018

Venus 80854-12-19 04:48 G 31252729.56 31252729.70 31252729.84 0.3731 0.0322

Earth 80854-12-23 18:44 G 31252734.15 31252734.28 31252734.42 0.2708 0.0394

Moon 80854-12-23 19:41 G 31252734.19 31252734.32 31252734.46 0.2704 0.0241 *

Pluto 80855-01-26 03:51 G 31252767.51 31252767.66 31252767.81 0.0081 0.0003

Pluto 80855-04-24 05:17 G 31252855.58 31252855.72 31252855.87 0.0081 0.0023

Jupiter 80855-07-17 21:51 G 31252940.28 31252940.41 31252940.53 0.0502 0.0194

Pluto 80855-07-21 06:44 G 31252943.66 31252943.78 31252943.92 0.0081 0.0044

Jupiter 80855-10-15 05:32 G 31253029.69 31253029.73 31253029.77 0.0499 0.0474

Pluto 80855-10-17 08:24 G 31253031.76 31253031.85 31253031.94 0.0081 0.0064

Venus 80856-07-03 02:39 G 31253291.51 31253291.61 31253291.72 0.3640 0.1163

Earth 80857-06-23 08:53 G 31253646.76 31253646.87 31253646.99 0.2625 0.0691

Moon 80857-06-23 09:22 G 31253646.77 31253646.89 31253647.01 0.2619 0.0597 *

Mars 80859-05-21 04:48 G 31254343.60 31254343.70 31254343.79 0.1656 0.0945

Mars 80860-03-31 10:05 G 31254658.80 31254658.92 31254659.04 0.1870 0.1221

Saturn 80860-07-03 18:29 G 31254753.11 31254753.27 31254753.42 0.0293 0.0128

Saturn 80860-09-30 15:51 G 31254841.99 31254842.16 31254842.33 0.0293 0.0054

Saturn 80860-12-28 12:29 G 31254930.92 31254931.02 31254931.13 0.0293 0.0230

Mars 80861-04-25 10:20 G 31255048.84 31255048.93 31255049.03 0.1676 0.0993

Jupiter 80861-12-15 06:29 G 31255282.64 31255282.77 31255282.91 0.0528 0.0302

Venus 80862-01-16 19:12 G 31255315.21 31255315.30 31255315.40 0.3641 0.1490

Jupiter 80867-05-06 01:12 G 31257250.46 31257250.55 31257250.64 0.0502 0.0365

Jupiter 80867-08-03 08:39 G 31257339.75 31257339.86 31257339.97 0.0499 0.0297

Earth 80867-12-26 19:27 G 31257485.20 31257485.31 31257485.42 0.2708 0.1490

Moon 80867-12-26 19:41 G 31257485.21 31257485.32 31257485.44 0.2701 0.1448 *

Mars 80868-10-10 15:36 G 31257774.09 31257774.15 31257774.21 0.1652 0.1385

Moon 80870-06-26 04:34 G 31258397.57 31258397.69 31258397.81 0.2618 0.0551

Earth 80870-06-26 05:03 G 31258397.59 31258397.71 31258397.83 0.2625 0.0664 *

Mars 80870-09-15 20:39 G 31258479.25 31258479.36 31258479.48 0.1671 0.0504

Jupiter 80873-10-03 05:32 G 31259592.56 31259592.73 31259592.89 0.0527 0.0069

Saturn 80875-04-16 16:05 G 31260153.07 31260153.17 31260153.27 0.0267 0.0185

Saturn 80875-07-14 03:22 G 31260241.51 31260241.64 31260241.77 0.0267 0.0077

Saturn 80875-10-10 14:53 G 31260329.98 31260330.12 31260330.26 0.0267 0.0032

Saturn 80876-01-07 02:24 G 31260418.48 31260418.60 31260418.72 0.0267 0.0144

Saturn 80876-04-04 14:24 G 31260507.06 31260507.10 31260507.14 0.0267 0.0257

Jupiter 80879-05-22 12:15 G 31261649.87 31261650.01 31261650.14 0.0500 0.0129

Mars 80880-02-06 07:12 G 31261909.68 31261909.80 31261909.92 0.1666 0.0034

Mars 80880-12-18 18:00 G 31262226.13 31262226.25 31262226.37 0.1856 0.1218

Moon 80883-06-29 00:15 G 31263148.44 31263148.51 31263148.59 0.2623 0.2015

Earth 80883-06-29 01:12 G 31263148.47 31263148.55 31263148.62 0.2625 0.2040 *

Uranus 80883-12-18 00:29 G 31263320.47 31263320.52 31263320.59 0.0144 0.0129

Uranus 80884-03-15 04:48 G 31263408.61 31263408.70 31263408.80 0.0144 0.0106

Uranus 80884-06-11 09:08 G 31263496.77 31263496.88 31263497.00 0.0144 0.0083

Uranus 80884-09-07 13:27 G 31263584.94 31263585.06 31263585.20 0.0144 0.0060

Uranus 80884-12-04 18:00 G 31263673.11 31263673.25 31263673.39 0.0144 0.0036

Uranus 80885-03-02 22:20 G 31263761.29 31263761.43 31263761.58 0.0144 0.0013

Uranus 80885-05-30 02:53 G 31263849.47 31263849.62 31263849.76 0.0144 0.0012

Jupiter 80885-07-22 03:08 G 31263902.48 31263902.63 31263902.79 0.0526 0.0185

Uranus 80885-08-26 07:12 G 31263937.66 31263937.80 31263937.94 0.0144 0.0035

Uranus 80885-11-22 11:46 G 31264025.86 31264025.99 31264026.12 0.0144 0.0059

Uranus 80886-02-18 16:20 G 31264114.06 31264114.18 31264114.29 0.0144 0.0083

Uranus 80886-05-17 20:39 G 31264202.27 31264202.36 31264202.46 0.0144 0.0108

Uranus 80886-08-14 01:12 G 31264290.50 31264290.55 31264290.61 0.0144 0.0132

Earth 80887-12-21 23:32 G 31264785.39 31264785.48 31264785.57 0.2708 0.1978

Moon 80887-12-22 00:44 G 31264785.44 31264785.53 31264785.63 0.2709 0.1861 *

Mars 80889-06-28 17:46 G 31265340.13 31265340.24 31265340.36 0.1661 0.0447

Saturn 80889-11-20 19:56 G 31265485.19 31265485.33 31265485.48 0.0294 0.0162

Saturn 80890-02-17 17:32 G 31265574.06 31265574.23 31265574.40 0.0294 0.0022

Mars 80890-05-10 14:39 G 31265655.95 31265656.11 31265656.27 0.1864 0.0073

Saturn 80890-05-17 14:24 G 31265662.98 31265663.10 31265663.23 0.0294 0.0200

Earth 80890-06-21 18:15 G 31265698.17 31265698.26 31265698.35 0.2625 0.1737

Moon 80890-06-21 18:58 G 31265698.20 31265698.29 31265698.39 0.2621 0.1653 *

Jupiter 80891-03-10 15:51 G 31265960.02 31265960.16 31265960.30 0.0501 0.0037

Mars 80891-06-04 00:15 G 31266045.47 31266045.51 31266045.56 0.1681 0.1542

Jupiter 80897-05-10 01:12 G 31268212.46 31268212.55 31268212.65 0.0525 0.0432

Jupiter 80897-08-08 04:48 G 31268302.69 31268302.70 31268302.72 0.0528 0.0524

Mars 80898-11-19 04:34 G 31268770.59 31268770.69 31268770.79 0.1656 0.0896

Mars 80899-09-30 11:03 G 31269085.83 31269085.96 31269086.09 0.1870 0.1108

Mars 80900-10-25 10:20 G 31269475.84 31269475.93 31269476.02 0.1676 0.1037

Earth 80900-12-25 00:29 G 31269536.39 31269536.52 31269536.66 0.2708 0.0068

Moon 80900-12-25 01:27 G 31269536.42 31269536.56 31269536.70 0.2703 0.0063 *

Jupiter 80902-12-28 19:41 G 31270270.20 31270270.32 31270270.45 0.0502 0.0199

Jupiter 80903-03-28 03:22 G 31270359.60 31270359.64 31270359.69 0.0499 0.0470

Moon 80903-06-25 14:10 G 31270448.97 31270449.09 31270449.22 0.2618 0.0435

Earth 80903-06-25 14:10 G 31270448.97 31270449.09 31270449.21 0.2625 0.0420 *

Saturn 80904-09-03 19:27 G 31270885.23 31270885.31 31270885.40 0.0266 0.0207

Saturn 80904-12-01 06:44 G 31270973.65 31270973.78 31270973.91 0.0266 0.0100

Saturn 80905-02-27 18:00 G 31271062.11 31271062.25 31271062.39 0.0266 0.0010

Saturn 80905-05-27 05:46 G 31271150.61 31271150.74 31271150.86 0.0267 0.0119

Saturn 80905-08-23 17:17 G 31271239.16 31271239.22 31271239.30 0.0267 0.0232

Venus 80906-01-10 01:56 G 31271378.58 31271378.58 31271378.59 0.3732 0.3719

Neptune 80907-04-30 12:00 G 31271853.99 31271854.00 31271854.03 0.0088 0.0087

Venus 80907-07-26 07:56 G 31271940.76 31271940.83 31271940.90 0.3639 0.2756

Neptune 80907-07-27 13:27 G 31271942.02 31271942.06 31271942.14 0.0088 0.0080

Neptune 80907-10-23 15:22 G 31272030.07 31272030.14 31272030.23 0.0088 0.0072

Neptune 80908-01-19 16:48 G 31272118.12 31272118.20 31272118.31 0.0088 0.0065

Mars 80908-04-11 15:36 G 31272201.08 31272201.15 31272201.22 0.1652 0.1333

Neptune 80908-04-16 18:44 G 31272206.17 31272206.28 31272206.39 0.0088 0.0057

Neptune 80908-07-13 20:10 G 31272294.23 31272294.34 31272294.47 0.0088 0.0050

Neptune 80908-10-09 21:51 G 31272382.29 31272382.41 31272382.54 0.0088 0.0042

Neptune 80909-01-05 23:32 G 31272470.35 31272470.48 31272470.62 0.0088 0.0035

Neptune 80909-04-04 01:12 G 31272558.42 31272558.55 31272558.69 0.0088 0.0027

Jupiter 80909-05-28 03:22 G 31272612.51 31272612.64 31272612.78 0.0527 0.0285

Neptune 80909-07-01 02:53 G 31272646.48 31272646.62 31272646.77 0.0088 0.0019

Neptune 80909-09-27 04:34 G 31272734.55 31272734.69 31272734.84 0.0088 0.0012

Neptune 80909-12-24 06:15 G 31272822.62 31272822.76 31272822.91 0.0088 0.0004

Mars 80910-03-17 20:39 G 31272906.25 31272906.36 31272906.48 0.1671 0.0553

Neptune 80910-03-22 07:56 G 31272910.69 31272910.83 31272910.98 0.0088 0.0004

Neptune 80910-06-18 09:36 G 31272998.76 31272998.90 31272999.05 0.0088 0.0011

Neptune 80910-09-14 11:17 G 31273086.83 31273086.97 31273087.12 0.0088 0.0019

Neptune 80910-12-11 12:58 G 31273174.90 31273175.04 31273175.18 0.0088 0.0027

Neptune 80911-03-09 14:39 G 31273262.98 31273263.11 31273263.25 0.0088 0.0035

Neptune 80911-06-05 16:20 G 31273351.06 31273351.18 31273351.31 0.0088 0.0043

Venus 80911-07-27 05:17 G 31273402.62 31273402.72 31273402.83 0.3731 0.2392

Neptune 80911-09-01 18:00 G 31273439.14 31273439.25 31273439.38 0.0088 0.0050

Neptune 80911-11-28 19:56 G 31273527.22 31273527.33 31273527.44 0.0088 0.0058

Neptune 80912-02-24 21:36 G 31273615.31 31273615.40 31273615.50 0.0088 0.0066

Neptune 80912-05-22 23:17 G 31273703.40 31273703.47 31273703.55 0.0088 0.0074

Neptune 80912-08-19 00:58 G 31273791.50 31273791.54 31273791.60 0.0088 0.0082

Venus 80913-02-08 00:29 G 31273964.41 31273964.52 31273964.62 0.3640 0.0226

Earth 80913-12-28 01:12 G 31274287.45 31274287.55 31274287.65 0.2708 0.1843

Moon 80913-12-28 01:27 G 31274287.46 31274287.56 31274287.65 0.2701 0.1922 *

Jupiter 80914-10-16 23:46 G 31274580.40 31274580.49 31274580.59 0.0502 0.0359

Jupiter 80915-01-14 07:12 G 31274669.69 31274669.80 31274669.91 0.0500 0.0305

Moon 80916-06-27 09:51 G 31275199.79 31275199.91 31275200.02 0.2619 0.0945

Earth 80916-06-27 10:05 G 31275199.81 31275199.92 31275200.04 0.2625 0.0929 *

Venus 80918-08-24 17:03 G 31275988.13 31275988.21 31275988.29 0.3641 0.2479

Saturn 80919-04-10 18:44 G 31276217.17 31276217.28 31276217.40 0.0294 0.0219

Saturn 80919-07-08 16:34 G 31276306.02 31276306.19 31276306.36 0.0293 0.0034

Mars 80919-08-08 07:12 G 31276336.68 31276336.80 31276336.92 0.1666 0.0087

Saturn 80919-10-05 13:41 G 31276394.92 31276395.07 31276395.22 0.0293 0.0145

Mars 80920-06-19 18:44 G 31276653.17 31276653.28 31276653.39 0.1856 0.1318

Jupiter 80921-03-16 02:39 G 31276922.45 31276922.61 31276922.78 0.0527 0.0057

Uranus 80926-04-05 16:34 G 31278769.13 31278769.19 31278769.26 0.0134 0.0123

Uranus 80926-07-02 22:20 G 31278857.32 31278857.43 31278857.55 0.0134 0.0099

Uranus 80926-09-29 03:51 G 31278945.53 31278945.66 31278945.81 0.0134 0.0076

Jupiter 80926-11-02 10:34 G 31278979.81 31278979.94 31278980.08 0.0500 0.0133

Uranus 80926-12-26 09:51 G 31279033.75 31279033.91 31279034.07 0.0134 0.0053

Uranus 80927-03-24 15:22 G 31279121.97 31279122.14 31279122.31 0.0134 0.0029

Uranus 80927-06-20 21:08 G 31279210.20 31279210.38 31279210.55 0.0134 0.0007

Uranus 80927-09-17 02:39 G 31279298.44 31279298.61 31279298.78 0.0134 0.0017

Uranus 80927-12-14 07:56 G 31279386.67 31279386.83 31279387.00 0.0134 0.0039

Uranus 80928-03-11 13:27 G 31279474.91 31279475.06 31279475.22 0.0134 0.0062

Uranus 80928-06-07 18:44 G 31279563.16 31279563.28 31279563.42 0.0134 0.0084

Uranus 80928-09-04 00:15 G 31279651.41 31279651.51 31279651.62 0.0134 0.0106

Uranus 80928-12-01 05:32 G 31279739.69 31279739.73 31279739.79 0.0134 0.0128

Mars 80928-12-28 17:46 G 31279767.13 31279767.24 31279767.36 0.1661 0.0391

Moon 80929-06-30 05:32 G 31279950.66 31279950.73 31279950.80 0.2624 0.2135

Earth 80929-06-30 06:15 G 31279950.71 31279950.76 31279950.82 0.2625 0.2318 *

Mars 80929-11-09 15:22 G 31280082.98 31280083.14 31280083.30 0.1863 0.0180

Mars 80930-12-04 00:15 G 31280472.47 31280472.51 31280472.54 0.1681 0.1594

Jupiter 80933-01-02 01:27 G 31281232.41 31281232.56 31281232.72 0.0526 0.0178

Earth 80933-12-23 05:17 G 31281587.62 31281587.72 31281587.83 0.2708 0.1609

Moon 80933-12-23 06:29 G 31281587.66 31281587.77 31281587.89 0.2708 0.1417 *

Saturn 80934-01-21 21:22 G 31281617.34 31281617.39 31281617.45 0.0266 0.0241

Saturn 80934-04-20 08:39 G 31281705.74 31281705.86 31281705.98 0.0267 0.0135

Saturn 80934-07-17 19:56 G 31281794.19 31281794.33 31281794.47 0.0267 0.0028

Saturn 80934-10-14 07:27 G 31281882.68 31281882.81 31281882.95 0.0267 0.0084

Saturn 80935-01-10 19:12 G 31281971.21 31281971.30 31281971.40 0.0267 0.0196

Earth 80936-06-22 23:17 G 31282500.38 31282500.47 31282500.57 0.2624 0.1484

Moon 80936-06-23 00:00 G 31282500.40 31282500.50 31282500.61 0.2621 0.1381 *

Mars 80938-05-21 04:34 G 31283197.59 31283197.69 31283197.79 0.1656 0.0843

Jupiter 80938-08-21 14:10 G 31283289.96 31283290.09 31283290.23 0.0501 0.0038

Mars 80939-04-01 11:17 G 31283512.84 31283512.97 31283513.11 0.1870 0.1020

Mars 80940-04-25 10:20 G 31283902.84 31283902.93 31283903.02 0.1676 0.1093

Jupiter 80944-10-20 23:17 G 31285542.38 31285542.47 31285542.57 0.0525 0.0429

Jupiter 80945-01-19 02:53 G 31285632.61 31285632.62 31285632.63 0.0528 0.0527

Earth 80946-12-26 06:15 G 31286338.63 31286338.76 31286338.90 0.2708 0.0331

Moon 80946-12-26 07:12 G 31286338.66 31286338.80 31286338.93 0.2702 0.0412 *

Mars 80947-10-11 15:22 G 31286628.07 31286628.14 31286628.22 0.1652 0.1287

Saturn 80948-08-27 19:41 G 31286949.25 31286949.32 31286949.41 0.0294 0.0258

Saturn 80948-11-24 17:46 G 31287038.07 31287038.24 31287038.40 0.0294 0.0072

Saturn 80949-02-21 14:53 G 31287126.97 31287127.12 31287127.28 0.0294 0.0109

Saturn 80949-05-21 11:46 G 31287215.95 31287215.99 31287216.03 0.0294 0.0285

Moon 80949-06-25 19:12 G 31287251.18 31287251.30 31287251.42 0.2618 0.0162

Earth 80949-06-25 19:12 G 31287251.18 31287251.30 31287251.42 0.2625 0.0163 *

Mars 80949-09-15 20:39 G 31287333.25 31287333.36 31287333.48 0.1671 0.0605

Jupiter 80950-06-09 17:46 G 31287600.12 31287600.24 31287600.37 0.0502 0.0202

Jupiter 80950-09-07 01:41 G 31287689.52 31287689.57 31287689.61 0.0499 0.0467

Jupiter 80956-11-07 01:27 G 31289942.42 31289942.56 31289942.70 0.0527 0.0288

Mars 80959-02-06 07:12 G 31290763.68 31290763.80 31290763.91 0.1665 0.0133

Mars 80959-12-19 19:27 G 31291080.21 31291080.31 31291080.42 0.1857 0.1424

Moon 80959-12-29 06:44 G 31291089.70 31291089.78 31291089.86 0.2701 0.2143

Earth 80959-12-29 06:58 G 31291089.71 31291089.79 31291089.86 0.2708 0.2192 *

Jupiter 80962-03-28 21:51 G 31291910.32 31291910.41 31291910.50 0.0503 0.0362

Jupiter 80962-06-26 05:17 G 31291999.61 31291999.72 31291999.83 0.0500 0.0304

Moon 80962-06-28 14:39 G 31292002.00 31292002.11 31292002.23 0.2620 0.1098

Earth 80962-06-28 15:22 G 31292002.03 31292002.14 31292002.24 0.2625 0.1201 *

Venus 80962-08-17 02:24 G 31292051.48 31292051.60 31292051.73 0.3732 0.1598

Saturn 80963-06-11 00:58 G 31292349.52 31292349.54 31292349.56 0.0266 0.0263

Saturn 80963-09-07 12:00 G 31292437.89 31292438.00 31292438.11 0.0266 0.0158

Saturn 80963-12-04 23:17 G 31292526.33 31292526.47 31292526.61 0.0266 0.0051

Venus 80964-03-01 05:32 G 31292613.64 31292613.73 31292613.82 0.3640 0.1805

Saturn 80964-03-02 10:48 G 31292614.81 31292614.95 31292615.09 0.0266 0.0059

Saturn 80964-05-29 22:20 G 31292703.33 31292703.43 31292703.54 0.0267 0.0171

Uranus 80968-01-08 07:41 G 31294021.75 31294021.82 31294021.90 0.0144 0.0123

Uranus 80968-04-05 12:00 G 31294109.90 31294110.00 31294110.11 0.0144 0.0100

Mars 80968-06-28 17:46 G 31294194.13 31294194.24 31294194.36 0.1661 0.0339

Uranus 80968-07-02 16:20 G 31294198.06 31294198.18 31294198.30 0.0144 0.0077

Jupiter 80968-08-25 23:46 G 31294252.33 31294252.49 31294252.66 0.0526 0.0047

Uranus 80968-09-28 20:39 G 31294286.23 31294286.36 31294286.50 0.0144 0.0054

Uranus 80968-12-26 00:58 G 31294374.40 31294374.54 31294374.68 0.0144 0.0030

Uranus 80969-03-24 05:32 G 31294462.58 31294462.73 31294462.87 0.0144 0.0007

Mars 80969-05-10 16:05 G 31294510.01 31294510.17 31294510.33 0.1863 0.0283

Uranus 80969-06-20 09:51 G 31294550.77 31294550.91 31294551.05 0.0144 0.0017

Earth 80969-06-21 08:53 G 31294551.84 31294551.87 31294551.90 0.2625 0.2515

Moon 80969-06-21 09:36 G 31294551.85 31294551.90 31294551.96 0.2623 0.2343 *

Venus 80969-09-14 22:05 G 31294637.31 31294637.42 31294637.52 0.3640 0.0803

Uranus 80969-09-16 14:24 G 31294638.96 31294639.10 31294639.24 0.0144 0.0041

Uranus 80969-12-13 18:44 G 31294727.15 31294727.28 31294727.41 0.0144 0.0065

Uranus 80970-03-11 23:03 G 31294815.36 31294815.46 31294815.58 0.0144 0.0090

Mars 80970-06-04 00:15 G 31294899.48 31294899.51 31294899.53 0.1681 0.1645

Uranus 80970-06-08 03:51 G 31294903.57 31294903.66 31294903.75 0.0144 0.0114

Uranus 80970-09-04 08:10 G 31294991.82 31294991.84 31294991.89 0.0144 0.0139

Jupiter 80974-04-14 09:08 G 31296309.75 31296309.88 31296310.02 0.0500 0.0141

Venus 80975-03-31 14:39 G 31296661.08 31296661.11 31296661.14 0.3641 0.3463

Moon 80975-07-01 10:34 G 31296752.92 31296752.94 31296752.97 0.2624 0.2555

Earth 80975-07-01 11:32 G 31296752.97 31296752.98 31296753.00 0.2625 0.2594 *

Mars 80977-11-19 04:34 G 31297624.59 31297624.69 31297624.79 0.1656 0.0790

Saturn 80978-04-13 16:20 G 31297770.02 31297770.18 31297770.33 0.0294 0.0130

Saturn 80978-07-11 13:41 G 31297858.90 31297859.07 31297859.24 0.0293 0.0052

Mars 80978-09-30 12:15 G 31297939.87 31297940.01 31297940.15 0.1870 0.0910

Saturn 80978-10-08 10:34 G 31297947.84 31297947.94 31297948.05 0.0293 0.0230

Mars 80979-10-25 10:20 G 31298329.85 31298329.93 31298330.02 0.1676 0.1147

Earth 80979-12-24 11:17 G 31298389.85 31298389.97 31298390.09 0.2708 0.1241

Moon 80979-12-24 12:15 G 31298389.89 31298390.01 31298390.14 0.2706 0.1191 *

Jupiter 80980-06-13 22:48 G 31298562.30 31298562.45 31298562.61 0.0526 0.0186

Earth 80982-06-24 04:34 G 31299302.58 31299302.69 31299302.79 0.2625 0.1227

Moon 80982-06-24 05:03 G 31299302.60 31299302.71 31299302.82 0.2620 0.1203 *

Jupiter 80986-01-31 12:44 G 31300619.90 31300620.03 31300620.17 0.0501 0.0030

Mars 80987-04-11 15:22 G 31301055.07 31301055.14 31301055.22 0.1652 0.1232

Mars 80989-03-16 20:39 G 31301760.25 31301760.36 31301760.47 0.1671 0.0656

Neptune 80990-02-01 05:03 G 31302081.69 31302081.71 31302081.75 0.0090 0.0088

Neptune 80990-04-30 07:56 G 31302169.75 31302169.83 31302169.92 0.0090 0.0078

Neptune 80990-07-27 10:48 G 31302257.84 31302257.95 31302258.07 0.0090 0.0068

Neptune 80990-10-23 13:41 G 31302345.94 31302346.07 31302346.21 0.0090 0.0058

Neptune 80991-01-19 16:20 G 31302434.05 31302434.18 31302434.34 0.0090 0.0049

Neptune 80991-04-17 19:12 G 31302522.15 31302522.30 31302522.46 0.0090 0.0039

Neptune 80991-07-14 22:05 G 31302610.26 31302610.42 31302610.59 0.0090 0.0029

Neptune 80991-10-11 00:58 G 31302698.37 31302698.54 31302698.71 0.0090 0.0019

Neptune 80992-01-07 03:36 G 31302786.48 31302786.65 31302786.82 0.0090 0.0009

Jupiter 80992-04-01 21:36 G 31302872.30 31302872.40 31302872.50 0.0525 0.0421

Neptune 80992-04-04 06:29 G 31302874.60 31302874.77 31302874.94 0.0090 0.0002

Neptune 80992-07-01 09:08 G 31302962.71 31302962.88 31302963.05 0.0090 0.0010

Neptune 80992-09-27 11:46 G 31303050.83 31303050.99 31303051.16 0.0090 0.0020

Neptune 80992-12-24 14:24 G 31303138.95 31303139.10 31303139.27 0.0090 0.0030

Earth 80992-12-26 12:00 G 31303140.87 31303141.00 31303141.14 0.2708 0.0693

Moon 80992-12-26 12:44 G 31303140.90 31303141.03 31303141.17 0.2703 0.0804 *

Saturn 80993-01-24 13:41 G 31303169.98 31303170.07 31303170.17 0.0266 0.0195

Neptune 80993-03-22 17:03 G 31303227.07 31303227.21 31303227.37 0.0090 0.0039

Saturn 80993-04-23 00:58 G 31303258.41 31303258.54 31303258.68 0.0267 0.0088

Neptune 80993-06-18 19:41 G 31303315.19 31303315.32 31303315.47 0.0090 0.0049

Saturn 80993-07-20 12:29 G 31303346.88 31303347.02 31303347.16 0.0267 0.0021

Neptune 80993-09-14 22:20 G 31303403.31 31303403.43 31303403.57 0.0090 0.0058

Saturn 80993-10-17 00:00 G 31303435.38 31303435.50 31303435.62 0.0267 0.0132

Neptune 80993-12-12 01:12 G 31303491.44 31303491.55 31303491.66 0.0090 0.0067

Saturn 80994-01-13 11:46 G 31303523.94 31303523.99 31303524.05 0.0267 0.0245

Neptune 80994-03-10 03:36 G 31303579.58 31303579.65 31303579.75 0.0090 0.0077

Neptune 80994-06-06 06:15 G 31303667.73 31303667.76 31303667.82 0.0090 0.0086

Moon 80995-06-27 00:15 G 31304053.39 31304053.51 31304053.64 0.2618 0.0133

Earth 80995-06-27 00:15 G 31304053.39 31304053.51 31304053.64 0.2625 0.0134 *

Jupiter 80997-11-19 16:34 G 31304930.06 31304930.19 31304930.32 0.0502 0.0193

Jupiter 80998-02-17 00:15 G 31305019.47 31305019.51 31305019.55 0.0499 0.0473

Mars 80998-08-07 07:12 G 31305190.68 31305190.80 31305190.92 0.1666 0.0179

Mars 80999-06-19 19:56 G 31305507.24 31305507.33 31305507.42 0.1856 0.1509

82ND MILLENNIUM CE

This is a list of transits of Mercury in the 82nd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Jupiter 81004-04-19 23:46 G 31307272.35 31307272.49 31307272.62 0.0527 0.0295

Moon 81005-12-30 12:15 G 31307891.96 31307892.01 31307892.06 0.2701 0.2496

Earth 81005-12-30 12:29 G 31307891.98 31307892.02 31307892.07 0.2708 0.2539 *

Saturn 81007-09-01 16:34 G 31308502.05 31308502.19 31308502.33 0.0294 0.0175

Saturn 81007-11-29 14:10 G 31308590.92 31308591.09 31308591.26 0.0294 0.0010

Mars 81007-12-29 17:46 G 31308621.12 31308621.24 31308621.36 0.1661 0.0290

Saturn 81008-02-26 11:17 G 31308679.84 31308679.97 31308680.10 0.0294 0.0189

Moon 81008-06-29 19:41 G 31308804.22 31308804.32 31308804.43 0.2621 0.1393

Earth 81008-06-29 20:24 G 31308804.25 31308804.35 31308804.45 0.2625 0.1468 *

Mars 81008-11-09 16:34 G 31308937.04 31308937.19 31308937.35 0.1864 0.0376

Jupiter 81009-09-08 20:10 G 31309240.25 31309240.34 31309240.43 0.0503 0.0361

Jupiter 81009-12-07 03:36 G 31309329.54 31309329.65 31309329.76 0.0500 0.0305

Uranus 81010-04-26 23:32 G 31309470.41 31309470.48 31309470.58 0.0134 0.0116

Uranus 81010-07-24 05:32 G 31309558.61 31309558.73 31309558.86 0.0134 0.0092

Uranus 81010-10-20 11:17 G 31309646.82 31309646.97 31309647.12 0.0134 0.0068

Uranus 81011-01-16 16:48 G 31309735.05 31309735.20 31309735.37 0.0134 0.0045

Pluto 81011-01-19 20:10 G 31309738.31 31309738.34 31309738.38 0.0062 0.0061

Uranus 81011-04-14 22:34 G 31309823.27 31309823.44 31309823.61 0.0134 0.0022

Pluto 81011-04-17 20:39 G 31309826.28 31309826.36 31309826.48 0.0062 0.0051

Uranus 81011-07-12 04:20 G 31309911.50 31309911.68 31309911.85 0.0134 0.0003

Pluto 81011-07-14 21:51 G 31309914.29 31309914.41 31309914.54 0.0063 0.0040

Uranus 81011-10-08 09:51 G 31309999.74 31309999.91 31310000.08 0.0134 0.0024

Pluto 81011-10-10 22:34 G 31310002.31 31310002.44 31310002.60 0.0063 0.0030

Uranus 81012-01-04 15:22 G 31310087.98 31310088.14 31310088.30 0.0134 0.0047

Pluto 81012-01-06 23:46 G 31310090.33 31310090.49 31310090.65 0.0063 0.0019

Uranus 81012-04-01 20:39 G 31310176.22 31310176.36 31310176.51 0.0134 0.0069

Pluto 81012-04-04 00:29 G 31310178.36 31310178.52 31310178.69 0.0063 0.0009

Uranus 81012-06-29 02:10 G 31310264.47 31310264.59 31310264.72 0.0134 0.0091

Pluto 81012-07-01 01:27 G 31310266.40 31310266.56 31310266.73 0.0063 0.0003

Uranus 81012-09-25 07:41 G 31310352.73 31310352.82 31310352.91 0.0134 0.0114

Pluto 81012-09-27 02:24 G 31310354.44 31310354.60 31310354.77 0.0063 0.0013

Pluto 81012-12-24 03:22 G 31310442.49 31310442.64 31310442.80 0.0063 0.0023

Pluto 81013-03-22 04:05 G 31310530.54 31310530.67 31310530.82 0.0063 0.0034

Pluto 81013-06-18 04:48 G 31310618.60 31310618.70 31310618.83 0.0063 0.0045

Pluto 81013-09-14 06:00 G 31310706.68 31310706.75 31310706.83 0.0063 0.0056

Venus 81015-03-24 10:48 G 31311262.91 31311262.95 31311262.98 0.3639 0.3397

Earth 81015-06-23 13:56 G 31311354.02 31311354.08 31311354.14 0.2625 0.2258

Moon 81015-06-23 14:53 G 31311354.06 31311354.12 31311354.18 0.2623 0.2233 *

Jupiter 81016-02-06 22:20 G 31311582.26 31311582.43 31311582.59 0.0526 0.0056

Mars 81017-05-21 04:34 G 31312051.58 31312051.69 31312051.79 0.1656 0.0740

Mars 81018-04-01 13:12 G 31312366.90 31312367.05 31312367.19 0.1870 0.0790

Venus 81019-03-25 03:08 G 31312724.49 31312724.63 31312724.77 0.3732 0.0526

Mars 81019-04-26 10:20 G 31312756.85 31312756.93 31312757.01 0.1676 0.1193

Venus 81020-10-07 03:08 G 31313286.53 31313286.63 31313286.74 0.3640 0.0842

Jupiter 81021-09-25 07:27 G 31313639.68 31313639.81 31313639.95 0.0501 0.0142

Saturn 81022-06-14 17:03 G 31313902.14 31313902.21 31313902.29 0.0266 0.0218

Saturn 81022-09-11 04:20 G 31313990.55 31313990.68 31313990.80 0.0266 0.0112

Saturn 81022-12-08 15:36 G 31314079.01 31314079.15 31314079.29 0.0266 0.0004

Saturn 81023-03-07 03:08 G 31314167.50 31314167.63 31314167.76 0.0266 0.0106

Saturn 81023-06-03 14:39 G 31314256.04 31314256.11 31314256.20 0.0267 0.0219

Earth 81025-12-25 17:03 G 31315192.08 31315192.21 31315192.34 0.2708 0.0874

Moon 81025-12-25 18:00 G 31315192.12 31315192.25 31315192.39 0.2704 0.0654 *

Venus 81026-04-22 19:41 G 31315310.23 31315310.32 31315310.41 0.3640 0.1781

Mars 81026-10-11 15:22 G 31315482.06 31315482.14 31315482.22 0.1652 0.1180

Jupiter 81027-11-25 20:24 G 31315892.20 31315892.35 31315892.51 0.0526 0.0191

Earth 81028-06-25 09:36 G 31316104.79 31316104.90 31316105.01 0.2625 0.0964

Moon 81028-06-25 10:05 G 31316104.80 31316104.92 31316105.03 0.2619 0.0856 *

Mars 81028-09-15 20:39 G 31316187.25 31316187.36 31316187.47 0.1671 0.0708

Jupiter 81033-07-14 11:32 G 31317949.84 31317949.98 31317950.12 0.0501 0.0020

Mars 81036-03-03 02:24 G 31318912.58 31318912.60 31318912.62 0.1647 0.1611

Saturn 81037-01-18 14:53 G 31319234.02 31319234.12 31319234.23 0.0294 0.0234

Saturn 81037-04-17 12:58 G 31319322.87 31319323.04 31319323.21 0.0294 0.0048

Saturn 81037-07-15 10:05 G 31319411.77 31319411.92 31319412.07 0.0294 0.0133

Mars 81038-02-06 07:12 G 31319617.68 31319617.80 31319617.92 0.1666 0.0232

Mars 81038-12-19 20:39 G 31319934.28 31319934.36 31319934.44 0.1857 0.1605

Earth 81038-12-28 17:46 G 31319943.12 31319943.24 31319943.37 0.2708 0.1046

Moon 81038-12-28 18:29 G 31319943.14 31319943.27 31319943.39 0.2702 0.1054 *

Jupiter 81039-09-13 19:12 G 31320202.21 31320202.30 31320202.40 0.0525 0.0424

Moon 81041-06-28 05:17 G 31320855.60 31320855.72 31320855.85 0.2618 0.0328

Earth 81041-06-28 05:32 G 31320855.61 31320855.73 31320855.85 0.2625 0.0371 *

Jupiter 81045-05-02 15:22 G 31322260.01 31322260.14 31322260.26 0.0502 0.0184

Jupiter 81045-07-30 22:48 G 31322349.42 31322349.45 31322349.48 0.0499 0.0483

Mars 81047-06-29 17:46 G 31323048.12 31323048.24 31323048.36 0.1661 0.0234

Mars 81048-05-10 17:32 G 31323364.08 31323364.23 31323364.39 0.1863 0.0483

Jupiter 81051-09-30 22:20 G 31324602.30 31324602.43 31324602.56 0.0528 0.0308

Saturn 81051-11-01 18:44 G 31324634.25 31324634.28 31324634.31 0.0266 0.0256

Uranus 81051-11-02 10:20 G 31324634.91 31324634.93 31324634.96 0.0144 0.0141

Saturn 81052-01-29 05:46 G 31324722.63 31324722.74 31324722.85 0.0266 0.0151

Uranus 81052-01-29 14:39 G 31324723.03 31324723.11 31324723.19 0.0144 0.0118

Saturn 81052-04-26 17:03 G 31324811.07 31324811.21 31324811.35 0.0266 0.0044

Uranus 81052-04-26 18:58 G 31324811.18 31324811.29 31324811.40 0.0144 0.0095 *

Uranus 81052-07-23 23:17 G 31324899.35 31324899.47 31324899.59 0.0144 0.0072

Saturn 81052-07-24 04:20 G 31324899.55 31324899.68 31324899.82 0.0267 0.0066 *

Uranus 81052-10-20 03:22 G 31324987.51 31324987.64 31324987.78 0.0144 0.0049

Saturn 81052-10-20 16:05 G 31324988.06 31324988.17 31324988.27 0.0267 0.0177

Uranus 81053-01-16 07:56 G 31325075.69 31325075.83 31325075.97 0.0144 0.0025

Uranus 81053-04-14 12:15 G 31325163.87 31325164.01 31325164.16 0.0144 0.0002

Uranus 81053-07-11 16:34 G 31325252.05 31325252.19 31325252.34 0.0144 0.0023

Uranus 81053-10-07 21:08 G 31325340.24 31325340.38 31325340.52 0.0144 0.0046

Uranus 81054-01-04 01:41 G 31325428.44 31325428.57 31325428.69 0.0144 0.0070

Uranus 81054-04-02 06:00 G 31325516.65 31325516.75 31325516.86 0.0144 0.0095

Uranus 81054-06-29 10:34 G 31325604.86 31325604.94 31325605.03 0.0144 0.0119

Moon 81054-07-01 00:44 G 31325606.44 31325606.53 31325606.63 0.2621 0.1651

Earth 81054-07-01 01:41 G 31325606.47 31325606.57 31325606.66 0.2625 0.1740 *

Uranus 81054-09-25 15:08 G 31325693.13 31325693.13 31325693.15 0.0144 0.0143

Mars 81056-11-19 04:34 G 31326478.58 31326478.69 31326478.80 0.1656 0.0689

Jupiter 81057-02-18 19:12 G 31326570.20 31326570.30 31326570.40 0.0502 0.0347

Jupiter 81057-05-19 02:39 G 31326659.50 31326659.61 31326659.71 0.0500 0.0317

Mars 81057-09-30 13:27 G 31326793.91 31326794.06 31326794.21 0.1870 0.0710

Mars 81058-10-25 10:20 G 31327183.85 31327183.93 31327184.01 0.1676 0.1248

Earth 81058-12-23 21:36 G 31327243.35 31327243.40 31327243.45 0.2708 0.2490

Moon 81058-12-23 22:48 G 31327243.38 31327243.45 31327243.52 0.2709 0.2278 *

Earth 81061-06-23 18:58 G 31328156.22 31328156.29 31328156.37 0.2625 0.2010

Moon 81061-06-23 19:56 G 31328156.24 31328156.33 31328156.41 0.2623 0.1851 *

Jupiter 81063-07-19 20:39 G 31328912.20 31328912.36 31328912.53 0.0526 0.0069

Mars 81066-04-11 15:22 G 31329909.05 31329909.14 31329909.22 0.1651 0.1132

Saturn 81066-06-07 13:56 G 31329966.06 31329966.08 31329966.12 0.0295 0.0290

Saturn 81066-09-04 12:15 G 31330054.85 31330055.01 31330055.17 0.0294 0.0102

Saturn 81066-12-02 09:36 G 31330143.74 31330143.90 31330144.07 0.0294 0.0082

Saturn 81067-03-01 06:44 G 31330232.70 31330232.78 31330232.86 0.0294 0.0259

Mars 81068-03-16 20:39 G 31330614.25 31330614.36 31330614.47 0.1670 0.0757

Jupiter 81069-03-07 06:00 G 31330969.62 31330969.75 31330969.88 0.0501 0.0146

Venus 81070-04-15 00:00 G 31331373.47 31331373.50 31331373.54 0.3733 0.3587

Venus 81071-10-29 08:24 G 31331935.77 31331935.85 31331935.93 0.3639 0.2445

Earth 81071-12-26 22:48 G 31331994.32 31331994.45 31331994.58 0.2708 0.0510

Moon 81071-12-27 00:00 G 31331994.36 31331994.50 31331994.63 0.2704 0.0486 *

Neptune 81072-01-26 11:17 G 31332024.94 31332024.97 31332025.03 0.0088 0.0083

Neptune 81072-04-23 12:58 G 31332112.98 31332113.04 31332113.12 0.0088 0.0076

Neptune 81072-07-20 14:39 G 31332201.03 31332201.11 31332201.21 0.0088 0.0068

Neptune 81072-10-16 16:05 G 31332289.08 31332289.17 31332289.29 0.0088 0.0061

Neptune 81073-01-12 18:00 G 31332377.14 31332377.25 31332377.37 0.0088 0.0053

Neptune 81073-04-10 19:27 G 31332465.20 31332465.31 31332465.45 0.0088 0.0046

Neptune 81073-07-07 21:22 G 31332553.26 31332553.39 31332553.52 0.0088 0.0038

Neptune 81073-10-03 22:48 G 31332641.32 31332641.45 31332641.59 0.0088 0.0031

Neptune 81073-12-31 00:29 G 31332729.39 31332729.52 31332729.67 0.0088 0.0023

Neptune 81074-03-29 02:10 G 31332817.45 31332817.59 31332817.74 0.0088 0.0015

Neptune 81074-06-25 03:51 G 31332905.52 31332905.66 31332905.81 0.0088 0.0008

Earth 81074-06-26 14:39 G 31332907.00 31332907.11 31332907.23 0.2625 0.0705

Moon 81074-06-26 15:08 G 31332907.01 31332907.13 31332907.25 0.2618 0.0734 *

Neptune 81074-09-21 05:32 G 31332993.59 31332993.73 31332993.88 0.0088 0.0003

Neptune 81074-12-18 07:12 G 31333081.66 31333081.80 31333081.95 0.0088 0.0008

Neptune 81075-03-16 08:53 G 31333169.73 31333169.87 31333170.02 0.0088 0.0016

Jupiter 81075-05-07 19:12 G 31333222.15 31333222.30 31333222.46 0.0525 0.0172

Neptune 81075-06-12 10:34 G 31333257.80 31333257.94 31333258.09 0.0088 0.0023

Mars 81075-09-02 02:24 G 31333339.56 31333339.60 31333339.63 0.1647 0.1560

Neptune 81075-09-08 12:15 G 31333345.88 31333346.01 31333346.15 0.0088 0.0031

Venus 81075-10-30 03:36 G 31333397.55 31333397.65 31333397.74 0.3732 0.2580

Neptune 81075-12-05 13:56 G 31333433.95 31333434.08 31333434.22 0.0088 0.0039

Neptune 81076-03-02 15:36 G 31333522.03 31333522.15 31333522.28 0.0088 0.0047

Neptune 81076-05-29 17:17 G 31333610.11 31333610.22 31333610.34 0.0088 0.0055

Neptune 81076-08-25 19:12 G 31333698.20 31333698.30 31333698.40 0.0088 0.0062

Neptune 81076-11-21 20:53 G 31333786.29 31333786.37 31333786.46 0.0088 0.0070

Neptune 81077-02-17 22:34 G 31333874.38 31333874.44 31333874.51 0.0088 0.0078

Venus 81077-05-14 00:44 G 31333959.43 31333959.53 31333959.64 0.3640 0.0185

Neptune 81077-05-17 00:15 G 31333962.49 31333962.51 31333962.55 0.0088 0.0086

Mars 81077-08-07 06:58 G 31334044.68 31334044.79 31334044.91 0.1665 0.0283

Mars 81078-06-19 21:36 G 31334361.34 31334361.40 31334361.46 0.1856 0.1713

Jupiter 81080-12-24 09:51 G 31335279.77 31335279.91 31335280.05 0.0502 0.0016

Saturn 81081-06-17 08:53 G 31335454.77 31335454.87 31335454.97 0.0266 0.0176

Saturn 81081-09-13 20:10 G 31335543.20 31335543.34 31335543.47 0.0266 0.0069

Saturn 81081-12-11 07:27 G 31335631.67 31335631.81 31335631.95 0.0266 0.0039

Saturn 81082-03-09 18:58 G 31335720.18 31335720.29 31335720.41 0.0266 0.0150

Saturn 81082-06-06 06:44 G 31335808.76 31335808.78 31335808.80 0.0267 0.0263

Venus 81082-11-27 17:17 G 31335983.16 31335983.22 31335983.29 0.3640 0.2776

Earth 81084-12-28 23:32 G 31336745.37 31336745.48 31336745.60 0.2708 0.1398

Moon 81084-12-28 23:46 G 31336745.38 31336745.49 31336745.61 0.2702 0.1496 *

Mars 81086-12-28 17:46 G 31337475.12 31337475.24 31337475.36 0.1661 0.0184

Jupiter 81087-02-23 17:17 G 31337532.12 31337532.22 31337532.32 0.0525 0.0420

Moon 81087-06-29 10:20 G 31337657.81 31337657.93 31337658.05 0.2619 0.0652

Earth 81087-06-29 10:34 G 31337657.82 31337657.94 31337658.06 0.2625 0.0643 *

Mars 81087-11-09 18:00 G 31337791.10 31337791.25 31337791.41 0.1863 0.0581

Jupiter 81092-10-12 13:56 G 31339589.95 31339590.08 31339590.21 0.0502 0.0175

Jupiter 81093-01-09 21:36 G 31339679.39 31339679.40 31339679.42 0.0499 0.0494

Uranus 81094-02-18 00:44 G 31340083.52 31340083.53 31340083.57 0.0134 0.0132

Uranus 81094-05-17 06:44 G 31340171.68 31340171.78 31340171.89 0.0134 0.0108

Uranus 81094-08-13 12:15 G 31340259.89 31340260.01 31340260.16 0.0134 0.0086

Uranus 81094-11-09 18:15 G 31340348.11 31340348.26 31340348.42 0.0134 0.0062

Uranus 81095-02-06 00:00 G 31340436.34 31340436.50 31340436.67 0.0134 0.0038

Uranus 81095-05-05 05:46 G 31340524.57 31340524.74 31340524.91 0.0134 0.0015

Uranus 81095-08-01 11:17 G 31340612.80 31340612.97 31340613.14 0.0134 0.0008

Uranus 81095-10-28 16:48 G 31340701.04 31340701.20 31340701.37 0.0134 0.0031

Saturn 81096-01-22 10:34 G 31340786.80 31340786.94 31340787.09 0.0294 0.0161

Uranus 81096-01-24 22:20 G 31340789.28 31340789.43 31340789.59 0.0134 0.0054

Saturn 81096-04-20 08:10 G 31340875.67 31340875.84 31340876.01 0.0294 0.0024

Uranus 81096-04-22 03:36 G 31340877.52 31340877.65 31340877.80 0.0134 0.0077

Mars 81096-05-20 04:34 G 31340905.58 31340905.69 31340905.80 0.1656 0.0636

Saturn 81096-07-18 05:17 G 31340964.60 31340964.72 31340964.84 0.0294 0.0202

Uranus 81096-07-19 09:08 G 31340965.77 31340965.88 31340966.00 0.0134 0.0099

Uranus 81096-10-15 14:39 G 31341054.04 31341054.11 31341054.19 0.0134 0.0121

Mars 81097-03-31 14:24 G 31341220.95 31341221.10 31341221.26 0.1870 0.0593

Mars 81098-04-25 10:20 G 31341610.86 31341610.93 31341611.01 0.1676 0.1302

Jupiter 81099-03-12 20:10 G 31341932.21 31341932.34 31341932.48 0.0527 0.0309

Moon 81100-07-02 06:00 G 31342408.66 31342408.75 31342408.83 0.2621 0.1894

Earth 81100-07-02 06:44 G 31342408.71 31342408.78 31342408.86 0.2625 0.2016 *

Pluto 81101-12-11 06:15 G 31342935.73 31342935.76 31342935.78 0.0081 0.0080

Pluto 81102-03-09 07:27 G 31343023.72 31343023.81 31343023.92 0.0081 0.0059

Pluto 81102-06-05 09:08 G 31343111.75 31343111.88 31343112.02 0.0081 0.0038

Pluto 81102-09-01 10:34 G 31343199.80 31343199.94 31343200.09 0.0081 0.0018

Pluto 81102-11-28 12:15 G 31343287.86 31343288.01 31343288.16 0.0081 0.0003

Pluto 81103-02-24 13:41 G 31343375.93 31343376.07 31343376.22 0.0081 0.0024

Pluto 81103-05-23 15:08 G 31343464.01 31343464.13 31343464.26 0.0081 0.0044

Pluto 81103-08-19 16:34 G 31343552.11 31343552.19 31343552.29 0.0081 0.0065

Jupiter 81104-08-01 17:46 G 31343900.15 31343900.24 31343900.35 0.0503 0.0337

Jupiter 81104-10-30 01:12 G 31343989.45 31343989.55 31343989.66 0.0500 0.0329

Earth 81104-12-25 03:22 G 31344045.56 31344045.64 31344045.73 0.2708 0.2110

Moon 81104-12-25 04:48 G 31344045.61 31344045.70 31344045.79 0.2707 0.2011 *

Mars 81105-10-11 15:22 G 31344336.05 31344336.14 31344336.23 0.1652 0.1079

Mars 81106-08-22 09:51 G 31344650.88 31344650.91 31344650.94 0.1877 0.1831

Earth 81107-06-26 00:00 G 31344958.42 31344958.50 31344958.59 0.2624 0.1754

Moon 81107-06-26 00:44 G 31344958.44 31344958.53 31344958.62 0.2621 0.1726 *

Mars 81107-09-16 20:39 G 31345041.26 31345041.36 31345041.46 0.1670 0.0810

Saturn 81110-11-05 10:05 G 31346186.85 31346186.92 31346187.00 0.0266 0.0217

Jupiter 81110-12-30 19:27 G 31346242.15 31346242.31 31346242.47 0.0527 0.0082

Saturn 81111-02-01 21:22 G 31346275.26 31346275.39 31346275.51 0.0266 0.0111

Saturn 81111-05-01 08:39 G 31346363.72 31346363.86 31346364.00 0.0266 0.0007

Saturn 81111-07-28 20:10 G 31346452.21 31346452.34 31346452.47 0.0266 0.0107

Saturn 81111-10-25 07:41 G 31346540.74 31346540.82 31346540.90 0.0267 0.0218

Mars 81115-03-04 02:10 G 31347766.55 31347766.59 31347766.64 0.1647 0.1512

Jupiter 81116-05-20 21:51 G 31348210.40 31348210.41 31348210.43 0.0503 0.0497

Jupiter 81116-08-18 05:03 G 31348299.58 31348299.71 31348299.84 0.0500 0.0164

Mars 81117-02-06 07:12 G 31348471.68 31348471.80 31348471.91 0.1665 0.0337

Mars 81117-12-19 21:51 G 31348788.38 31348788.41 31348788.45 0.1856 0.1792

Earth 81117-12-28 04:34 G 31348796.56 31348796.69 31348796.83 0.2708 0.0148

Moon 81117-12-28 05:32 G 31348796.60 31348796.73 31348796.87 0.2704 0.0082 *

Earth 81120-06-27 19:56 G 31349709.21 31349709.33 31349709.45 0.2625 0.0453

Moon 81120-06-27 20:10 G 31349709.22 31349709.34 31349709.46 0.2618 0.0342 *

Jupiter 81122-10-18 18:00 G 31350552.09 31350552.25 31350552.41 0.0525 0.0155

Saturn 81125-06-11 09:08 G 31351518.76 31351518.88 31351518.99 0.0295 0.0222

Saturn 81125-09-08 06:58 G 31351607.62 31351607.79 31351607.96 0.0295 0.0036

Saturn 81125-12-06 04:20 G 31351696.53 31351696.68 31351696.83 0.0294 0.0146

Mars 81126-06-29 17:46 G 31351902.12 31351902.24 31351902.35 0.1661 0.0144

Venus 81126-11-21 00:44 G 31352046.40 31352046.53 31352046.66 0.3733 0.1419

Mars 81127-05-11 18:58 G 31352218.14 31352218.29 31352218.44 0.1864 0.0678

Venus 81128-06-05 06:00 G 31352608.65 31352608.75 31352608.85 0.3639 0.1481

Jupiter 81128-06-06 08:24 G 31352609.72 31352609.85 31352609.99 0.0502 0.0017

Moon 81130-12-31 05:17 G 31353547.62 31353547.72 31353547.83 0.2701 0.1662

Earth 81130-12-31 05:17 G 31353547.62 31353547.72 31353547.82 0.2708 0.1749 *

Moon 81133-06-30 15:22 G 31354460.02 31354460.14 31354460.25 0.2619 0.0782

Earth 81133-06-30 15:51 G 31354460.04 31354460.16 31354460.27 0.2625 0.0908 *

Venus 81133-12-19 22:34 G 31354632.33 31354632.44 31354632.54 0.3640 0.1120

Jupiter 81134-08-06 16:34 G 31354862.08 31354862.19 31354862.30 0.0524 0.0394

Mars 81135-11-20 04:20 G 31355332.57 31355332.68 31355332.79 0.1656 0.0589

Uranus 81135-11-23 17:17 G 31355336.18 31355336.22 31355336.27 0.0144 0.0136

Uranus 81136-02-19 21:36 G 31355424.32 31355424.40 31355424.49 0.0144 0.0113

Uranus 81136-05-18 01:56 G 31355512.47 31355512.58 31355512.69 0.0144 0.0090

Uranus 81136-08-14 06:00 G 31355600.63 31355600.75 31355600.88 0.0144 0.0067

Mars 81136-09-30 15:08 G 31355647.98 31355648.13 31355648.29 0.1870 0.0487

Uranus 81136-11-10 10:20 G 31355688.80 31355688.93 31355689.07 0.0144 0.0044

Uranus 81137-02-06 14:53 G 31355776.98 31355777.12 31355777.26 0.0144 0.0020

Uranus 81137-05-05 19:12 G 31355865.16 31355865.30 31355865.44 0.0144 0.0004

Uranus 81137-08-01 23:32 G 31355953.34 31355953.48 31355953.63 0.0144 0.0028

Mars 81137-10-25 10:20 G 31356037.86 31356037.93 31356038.00 0.1675 0.1347

Uranus 81137-10-29 03:51 G 31356041.53 31356041.66 31356041.80 0.0144 0.0052

Uranus 81138-01-25 08:24 G 31356129.73 31356129.85 31356129.98 0.0144 0.0076

Uranus 81138-04-23 12:58 G 31356217.94 31356218.04 31356218.15 0.0144 0.0100

Uranus 81138-07-20 17:32 G 31356306.16 31356306.23 31356306.31 0.0144 0.0124

Saturn 81140-03-24 13:12 G 31356919.00 31356919.05 31356919.11 0.0265 0.0241

Jupiter 81140-03-25 12:29 G 31356919.89 31356920.02 31356920.15 0.0502 0.0170

Saturn 81140-06-21 00:15 G 31357007.40 31357007.51 31357007.63 0.0265 0.0137

Saturn 81140-09-17 11:32 G 31357095.84 31357095.98 31357096.12 0.0266 0.0030

Saturn 81140-12-14 23:03 G 31357184.32 31357184.46 31357184.59 0.0266 0.0079

Saturn 81141-03-13 10:34 G 31357272.84 31357272.94 31357273.04 0.0266 0.0190

Mars 81145-04-11 15:22 G 31358763.05 31358763.14 31358763.23 0.1652 0.1027

Mars 81146-02-20 10:34 G 31359077.88 31359077.94 31359078.01 0.1877 0.1719

Moon 81146-07-03 11:03 G 31359210.90 31359210.96 31359211.03 0.2622 0.2236

Earth 81146-07-03 12:00 G 31359210.94 31359211.00 31359211.06 0.2625 0.2294 *

Jupiter 81146-08-23 18:29 G 31359262.14 31359262.27 31359262.41 0.0527 0.0319

Mars 81147-03-17 20:39 G 31359468.26 31359468.36 31359468.46 0.1671 0.0862

Earth 81150-12-26 09:22 G 31360847.78 31360847.89 31360847.99 0.2708 0.1736

Moon 81150-12-26 10:34 G 31360847.83 31360847.94 31360848.05 0.2707 0.1561 *

Jupiter 81152-01-12 16:34 G 31361230.09 31361230.19 31361230.30 0.0503 0.0327

Jupiter 81152-04-11 00:15 G 31361319.40 31361319.51 31361319.61 0.0500 0.0341

Earth 81153-06-26 05:17 G 31361760.62 31361760.72 31361760.81 0.2625 0.1504

Moon 81153-06-26 05:46 G 31361760.64 31361760.74 31361760.84 0.2620 0.1392 *

Mars 81154-09-02 02:10 G 31362193.54 31362193.59 31362193.65 0.1647 0.1459

Saturn 81154-10-29 06:58 G 31362250.75 31362250.79 31362250.84 0.0295 0.0284

Neptune 81154-10-31 03:36 G 31362252.60 31362252.65 31362252.74 0.0090 0.0083

Saturn 81155-01-26 05:03 G 31362339.55 31362339.71 31362339.88 0.0294 0.0097

Neptune 81155-01-27 06:29 G 31362340.69 31362340.77 31362340.89 0.0090 0.0073

Saturn 81155-04-25 02:39 G 31362428.45 31362428.61 31362428.77 0.0294 0.0086

Neptune 81155-04-25 09:22 G 31362428.78 31362428.89 31362429.03 0.0090 0.0063

Neptune 81155-07-22 12:29 G 31362516.88 31362517.02 31362517.16 0.0090 0.0053

Saturn 81155-07-22 23:32 G 31362517.41 31362517.48 31362517.55 0.0294 0.0264

Neptune 81155-10-18 15:22 G 31362604.99 31362605.14 31362605.29 0.0090 0.0043

Neptune 81156-01-14 18:15 G 31362693.10 31362693.26 31362693.42 0.0090 0.0033

Neptune 81156-04-11 20:53 G 31362781.21 31362781.37 31362781.54 0.0090 0.0023

Neptune 81156-07-08 23:46 G 31362869.32 31362869.49 31362869.66 0.0090 0.0014

Mars 81156-08-07 07:12 G 31362898.68 31362898.80 31362898.91 0.1665 0.0389

Neptune 81156-10-05 02:24 G 31362957.43 31362957.60 31362957.78 0.0090 0.0005

Neptune 81157-01-01 05:17 G 31363045.55 31363045.72 31363045.89 0.0090 0.0006

Neptune 81157-03-30 07:56 G 31363133.66 31363133.83 31363134.00 0.0090 0.0016

Neptune 81157-06-26 10:34 G 31363221.78 31363221.94 31363222.11 0.0090 0.0025

Neptune 81157-09-22 13:12 G 31363309.90 31363310.05 31363310.22 0.0090 0.0035

Neptune 81157-12-19 15:51 G 31363398.02 31363398.16 31363398.32 0.0090 0.0045

Neptune 81158-03-17 18:44 G 31363486.15 31363486.28 31363486.42 0.0090 0.0054

Jupiter 81158-06-11 17:46 G 31363572.07 31363572.24 31363572.40 0.0526 0.0089

Neptune 81158-06-13 21:08 G 31363574.28 31363574.38 31363574.52 0.0090 0.0064

Neptune 81158-09-09 23:46 G 31363662.41 31363662.49 31363662.60 0.0090 0.0073

Neptune 81158-12-07 02:39 G 31363750.55 31363750.61 31363750.68 0.0090 0.0082

Jupiter 81163-10-31 20:53 G 31365540.33 31365540.37 31365540.40 0.0503 0.0484

Earth 81163-12-29 10:20 G 31365598.80 31365598.93 31365599.07 0.2708 0.0240

Moon 81163-12-29 11:17 G 31365598.83 31365598.97 31365599.11 0.2704 0.0246 *

Jupiter 81164-01-29 04:05 G 31365629.54 31365629.67 31365629.80 0.0501 0.0178

Mars 81165-12-28 17:46 G 31366329.12 31366329.24 31366329.35 0.1661 0.0103

Moon 81166-06-29 01:12 G 31366511.42 31366511.55 31366511.67 0.2618 0.0239

Earth 81166-06-29 00:58 G 31366511.42 31366511.54 31366511.66 0.2625 0.0182 *

Mars 81166-11-09 19:27 G 31366645.17 31366645.31 31366645.46 0.1863 0.0778

Saturn 81169-11-08 01:27 G 31367739.46 31367739.56 31367739.66 0.0266 0.0179

Saturn 81170-02-04 12:29 G 31367827.89 31367828.02 31367828.16 0.0266 0.0073

Jupiter 81170-03-30 16:48 G 31367882.04 31367882.20 31367882.36 0.0526 0.0140

Saturn 81170-05-04 00:00 G 31367916.36 31367916.50 31367916.64 0.0266 0.0036

Saturn 81170-07-31 11:17 G 31368004.86 31368004.97 31368005.09 0.0266 0.0146

Saturn 81170-10-27 23:03 G 31368093.43 31368093.46 31368093.50 0.0267 0.0257

Mars 81175-05-21 04:20 G 31369759.57 31369759.68 31369759.80 0.1656 0.0539

Jupiter 81175-11-17 07:56 G 31369939.69 31369939.83 31369939.97 0.0501 0.0015

Mars 81176-03-31 15:36 G 31370075.00 31370075.15 31370075.31 0.1870 0.0400

Moon 81176-12-31 11:03 G 31370349.88 31370349.96 31370350.04 0.2701 0.2187

Earth 81176-12-31 11:03 G 31370349.88 31370349.96 31370350.04 0.2708 0.2103 *

Mars 81177-04-25 10:20 G 31370464.87 31370464.93 31370464.99 0.1676 0.1403

Uranus 81178-03-11 07:41 G 31370784.78 31370784.82 31370784.90 0.0134 0.0126

Uranus 81178-06-07 13:41 G 31370872.97 31370873.07 31370873.19 0.0134 0.0102

Uranus 81178-09-03 19:41 G 31370961.18 31370961.32 31370961.46 0.0134 0.0078

Uranus 81178-12-01 01:27 G 31371049.40 31371049.56 31371049.72 0.0134 0.0054

Uranus 81179-02-27 06:58 G 31371137.63 31371137.79 31371137.97 0.0134 0.0032

Uranus 81179-05-26 12:44 G 31371225.86 31371226.03 31371226.21 0.0134 0.0008

Venus 81179-06-27 11:17 G 31371257.92 31371257.97 31371258.03 0.3638 0.3068

Moon 81179-07-01 20:24 G 31371262.24 31371262.35 31371262.46 0.2619 0.1180

Earth 81179-07-01 20:53 G 31371262.26 31371262.37 31371262.48 0.2625 0.1177 *

Uranus 81179-08-22 18:29 G 31371314.10 31371314.27 31371314.44 0.0134 0.0015

Uranus 81179-11-19 00:00 G 31371402.34 31371402.50 31371402.67 0.0134 0.0038

Uranus 81180-02-15 05:17 G 31371490.58 31371490.72 31371490.88 0.0134 0.0062

Uranus 81180-05-13 11:03 G 31371578.83 31371578.96 31371579.09 0.0134 0.0084

Uranus 81180-08-09 16:20 G 31371667.09 31371667.18 31371667.29 0.0134 0.0106

Uranus 81180-11-05 21:36 G 31371755.37 31371755.40 31371755.46 0.0134 0.0129

Jupiter 81182-01-16 15:22 G 31372192.03 31372192.14 31372192.26 0.0524 0.0374

Venus 81183-06-28 01:12 G 31372719.42 31372719.55 31372719.69 0.3732 0.0713

Saturn 81184-06-14 02:39 G 31373071.47 31373071.61 31373071.76 0.0295 0.0165

Saturn 81184-09-11 00:29 G 31373160.35 31373160.52 31373160.69 0.0295 0.0021

Mars 81184-10-10 15:08 G 31373190.04 31373190.13 31373190.23 0.1651 0.0981

Saturn 81184-12-08 21:36 G 31373249.28 31373249.40 31373249.53 0.0294 0.0202

Venus 81185-01-10 03:36 G 31373281.55 31373281.65 31373281.76 0.3639 0.0521

Mars 81185-08-21 11:32 G 31373504.90 31373504.98 31373505.06 0.1877 0.1610

Earth 81186-06-24 14:39 G 31373812.08 31373812.11 31373812.14 0.2624 0.2531

Moon 81186-06-24 15:36 G 31373812.11 31373812.15 31373812.19 0.2625 0.2449 *

Mars 81186-09-15 20:39 G 31373895.26 31373895.36 31373895.46 0.1670 0.0911

Jupiter 81187-09-05 11:17 G 31374249.84 31374249.97 31374250.10 0.0502 0.0159

Venus 81190-07-26 20:10 G 31375305.25 31375305.34 31375305.43 0.3640 0.2099

Moon 81192-07-03 16:20 G 31376013.13 31376013.18 31376013.23 0.2624 0.2405

Earth 81192-07-03 17:03 G 31376013.19 31376013.21 31376013.24 0.2625 0.2569 *

Jupiter 81194-02-02 18:00 G 31376592.13 31376592.25 31376592.38 0.0527 0.0349

Mars 81194-03-03 02:10 G 31376620.53 31376620.59 31376620.65 0.1647 0.1408

Mars 81196-02-06 06:58 G 31377325.67 31377325.79 31377325.91 0.1665 0.0430

Earth 81196-12-26 15:08 G 31377650.02 31377650.13 31377650.25 0.2708 0.1362

Moon 81196-12-26 16:34 G 31377650.06 31377650.19 31377650.31 0.2707 0.1225 *

Saturn 81199-03-28 04:20 G 31378471.60 31378471.68 31378471.77 0.0265 0.0205

Saturn 81199-06-24 15:22 G 31378560.02 31378560.14 31378560.27 0.0265 0.0100

Jupiter 81199-06-24 15:08 G 31378560.03 31378560.13 31378560.24 0.0503 0.0320 *

Earth 81199-06-27 10:20 G 31378562.82 31378562.93 31378563.03 0.2624 0.1243

Moon 81199-06-27 10:48 G 31378562.85 31378562.95 31378563.06 0.2619 0.1195 *

Saturn 81199-09-21 02:39 G 31378648.47 31378648.61 31378648.75 0.0265 0.0010

Jupiter 81199-09-21 22:34 G 31378649.35 31378649.44 31378649.54 0.0500 0.0349

Saturn 81199-12-18 14:10 G 31378736.96 31378737.09 31378737.22 0.0266 0.0117

Saturn 81200-03-16 01:41 G 31378825.51 31378825.57 31378825.65 0.0266 0.0228

Mars 81205-06-28 17:46 G 31380756.12 31380756.24 31380756.36 0.1661 0.0059

Jupiter 81205-11-21 16:20 G 31380902.02 31380902.18 31380902.34 0.0526 0.0104

Mars 81206-05-10 20:10 G 31381072.20 31381072.34 31381072.49 0.1863 0.0878

Earth 81209-12-29 16:05 G 31382401.04 31382401.17 31382401.31 0.2708 0.0592

Moon 81209-12-29 16:48 G 31382401.07 31382401.20 31382401.33 0.2702 0.0694 *

Jupiter 81211-04-12 19:27 G 31382870.27 31382870.31 31382870.35 0.0504 0.0476

Jupiter 81211-07-11 02:39 G 31382959.49 31382959.61 31382959.74 0.0501 0.0190

Moon 81212-06-29 06:00 G 31383313.63 31383313.75 31383313.87 0.2618 0.0119

Earth 81212-06-29 06:00 G 31383313.63 31383313.75 31383313.87 0.2625 0.0093 *

Saturn 81213-11-01 00:58 G 31383803.43 31383803.54 31383803.65 0.0295 0.0225

Saturn 81214-01-28 22:48 G 31383892.28 31383892.45 31383892.63 0.0295 0.0039

Saturn 81214-04-27 20:10 G 31383981.20 31383981.34 31383981.49 0.0294 0.0144

Mars 81214-11-19 04:20 G 31384186.57 31384186.68 31384186.80 0.1656 0.0486

Mars 81215-09-30 16:34 G 31384502.03 31384502.19 31384502.35 0.1870 0.0288

Mars 81216-10-24 10:20 G 31384891.87 31384891.93 31384891.99 0.1676 0.1455

Jupiter 81217-09-09 15:08 G 31385211.97 31385212.13 31385212.30 0.0525 0.0129

Uranus 81219-12-14 00:44 G 31386037.47 31386037.53 31386037.59 0.0144 0.0129

Uranus 81220-03-11 04:48 G 31386125.61 31386125.70 31386125.80 0.0144 0.0106

Uranus 81220-06-07 09:08 G 31386213.77 31386213.88 31386214.00 0.0144 0.0083

Uranus 81220-09-03 13:27 G 31386301.93 31386302.06 31386302.19 0.0144 0.0060

Uranus 81220-11-30 17:46 G 31386390.10 31386390.24 31386390.38 0.0144 0.0037

Uranus 81221-02-26 22:05 G 31386478.28 31386478.42 31386478.56 0.0144 0.0013

Uranus 81221-05-26 02:24 G 31386566.46 31386566.60 31386566.75 0.0144 0.0011

Uranus 81221-08-22 06:44 G 31386654.65 31386654.78 31386654.93 0.0144 0.0035

Uranus 81221-11-18 11:17 G 31386742.84 31386742.97 31386743.10 0.0144 0.0058

Uranus 81222-02-14 15:36 G 31386831.04 31386831.15 31386831.28 0.0144 0.0083

Uranus 81222-05-13 20:10 G 31386919.25 31386919.34 31386919.44 0.0144 0.0107

Uranus 81222-08-10 00:44 G 31387007.48 31387007.53 31387007.59 0.0144 0.0131

Moon 81223-01-01 16:48 G 31387152.13 31387152.20 31387152.26 0.2701 0.2358

Earth 81223-01-01 16:48 G 31387152.14 31387152.20 31387152.25 0.2708 0.2457 *

Jupiter 81223-04-29 06:44 G 31387269.64 31387269.78 31387269.92 0.0501 0.0029

Mars 81224-04-10 15:08 G 31387617.04 31387617.13 31387617.23 0.1651 0.0928

Mars 81225-02-19 12:00 G 31387931.91 31387932.00 31387932.10 0.1877 0.1508

Moon 81225-07-02 01:27 G 31388064.46 31388064.56 31388064.67 0.2619 0.1298

Earth 81225-07-02 02:10 G 31388064.49 31388064.59 31388064.69 0.2625 0.1446 *

Mars 81226-03-16 20:39 G 31388322.26 31388322.36 31388322.46 0.1670 0.0964

Saturn 81228-08-14 05:32 G 31389203.68 31389203.73 31389203.78 0.0265 0.0247

Saturn 81228-11-10 16:20 G 31389292.07 31389292.18 31389292.30 0.0265 0.0144

Saturn 81229-02-07 03:36 G 31389380.51 31389380.65 31389380.79 0.0266 0.0037

Saturn 81229-05-06 15:08 G 31389468.99 31389469.13 31389469.26 0.0266 0.0072

Jupiter 81229-06-28 14:10 G 31389521.97 31389522.09 31389522.21 0.0525 0.0358

Saturn 81229-08-03 02:39 G 31389557.51 31389557.61 31389557.71 0.0266 0.0182

Earth 81232-06-24 19:41 G 31390614.27 31390614.32 31390614.38 0.2625 0.2285

Moon 81232-06-24 20:39 G 31390614.29 31390614.36 31390614.42 0.2623 0.2155 *

Mars 81233-09-01 02:10 G 31391047.53 31391047.59 31391047.65 0.1647 0.1359

Venus 81234-07-18 22:20 G 31391368.37 31391368.43 31391368.48 0.3733 0.3407

Jupiter 81235-02-15 10:48 G 31391579.82 31391579.95 31391580.08 0.0502 0.0133

Mars 81235-08-07 06:58 G 31391752.68 31391752.79 31391752.91 0.1665 0.0488

Venus 81236-02-01 08:53 G 31391930.79 31391930.87 31391930.96 0.3638 0.2115

Neptune 81236-07-27 09:22 G 31392107.87 31392107.89 31392107.93 0.0088 0.0086

Neptune 81236-10-23 11:17 G 31392195.90 31392195.97 31392196.03 0.0088 0.0078

Neptune 81237-01-19 12:29 G 31392283.95 31392284.02 31392284.12 0.0088 0.0071

Neptune 81237-04-17 14:10 G 31392372.00 31392372.09 31392372.20 0.0088 0.0064

Neptune 81237-07-14 15:51 G 31392460.06 31392460.16 31392460.28 0.0088 0.0056

Neptune 81237-10-10 17:17 G 31392548.12 31392548.22 31392548.35 0.0088 0.0049

Neptune 81238-01-06 19:12 G 31392636.18 31392636.30 31392636.43 0.0088 0.0041

Neptune 81238-04-04 20:39 G 31392724.24 31392724.36 31392724.50 0.0088 0.0034

Neptune 81238-07-01 22:20 G 31392812.30 31392812.43 31392812.58 0.0088 0.0026

Neptune 81238-09-28 00:15 G 31392900.36 31392900.51 31392900.65 0.0088 0.0018

Neptune 81238-12-25 01:41 G 31392988.43 31392988.57 31392988.72 0.0088 0.0011

Neptune 81239-03-23 03:22 G 31393076.50 31393076.64 31393076.79 0.0088 0.0004

Neptune 81239-06-19 05:03 G 31393164.57 31393164.71 31393164.86 0.0088 0.0005

Neptune 81239-09-15 06:44 G 31393252.64 31393252.78 31393252.93 0.0088 0.0013

Neptune 81239-12-12 08:24 G 31393340.71 31393340.85 31393341.00 0.0088 0.0020

Venus 81240-02-02 01:56 G 31393392.49 31393392.58 31393392.67 0.3732 0.2802

Neptune 81240-03-09 10:05 G 31393428.79 31393428.92 31393429.06 0.0088 0.0028

Neptune 81240-06-05 11:46 G 31393516.86 31393516.99 31393517.13 0.0088 0.0036

Neptune 81240-09-01 13:27 G 31393604.94 31393605.06 31393605.19 0.0088 0.0044

Neptune 81240-11-28 14:53 G 31393693.02 31393693.12 31393693.26 0.0088 0.0052

Neptune 81241-02-24 16:48 G 31393781.10 31393781.20 31393781.32 0.0088 0.0059

Neptune 81241-05-23 18:29 G 31393869.19 31393869.27 31393869.37 0.0088 0.0067

Jupiter 81241-07-15 17:03 G 31393922.10 31393922.21 31393922.33 0.0527 0.0373

Venus 81241-08-17 01:27 G 31393954.45 31393954.56 31393954.66 0.3639 0.0483

Neptune 81241-08-19 20:10 G 31393957.28 31393957.34 31393957.43 0.0088 0.0075

Neptune 81241-11-15 21:51 G 31394045.38 31394045.41 31394045.47 0.0088 0.0083

Earth 81242-12-27 20:53 G 31394452.25 31394452.37 31394452.50 0.2708 0.0998

Moon 81242-12-27 22:05 G 31394452.29 31394452.42 31394452.55 0.2706 0.0873 *

Saturn 81243-06-17 19:56 G 31394624.17 31394624.33 31394624.49 0.0295 0.0111

Saturn 81243-09-14 17:32 G 31394713.07 31394713.23 31394713.40 0.0295 0.0074

Saturn 81243-12-12 14:39 G 31394802.03 31394802.11 31394802.20 0.0295 0.0253

Mars 81244-12-27 17:32 G 31395183.11 31395183.23 31395183.35 0.1660 0.0038

Earth 81245-06-27 15:22 G 31395365.03 31395365.14 31395365.25 0.2625 0.0986

Moon 81245-06-27 15:51 G 31395365.05 31395365.16 31395365.28 0.2619 0.0914 *

Mars 81245-11-08 20:53 G 31395499.23 31395499.37 31395499.51 0.1864 0.0969

Jupiter 81246-12-04 14:10 G 31395889.98 31395890.09 31395890.19 0.0503 0.0307

Venus 81247-03-02 17:46 G 31395978.19 31395978.24 31395978.30 0.3640 0.3086

Jupiter 81247-03-03 21:36 G 31395979.30 31395979.40 31395979.49 0.0500 0.0361

Jupiter 81253-05-03 16:05 G 31398232.01 31398232.17 31398232.33 0.0526 0.0139

Mars 81254-05-20 04:20 G 31398613.57 31398613.68 31398613.80 0.1656 0.0434

Mars 81255-03-31 17:32 G 31398929.07 31398929.23 31398929.39 0.1870 0.0174

Earth 81255-12-30 21:51 G 31399203.29 31399203.41 31399203.54 0.2708 0.0949

Moon 81255-12-30 22:20 G 31399203.31 31399203.43 31399203.56 0.2701 0.0975 *

Mars 81256-04-24 10:20 G 31399318.88 31399318.93 31399318.98 0.1675 0.1501

Saturn 81258-03-30 19:27 G 31400024.20 31400024.31 31400024.42 0.0265 0.0170

Saturn 81258-06-27 06:29 G 31400112.64 31400112.77 31400112.91 0.0265 0.0064

Moon 81258-06-30 11:03 G 31400115.83 31400115.96 31400116.08 0.2618 0.0300

Earth 81258-06-30 11:17 G 31400115.85 31400115.97 31400116.09 0.2625 0.0355 *

Jupiter 81258-09-22 18:15 G 31400200.21 31400200.26 31400200.30 0.0504 0.0469

Saturn 81258-09-23 17:46 G 31400201.10 31400201.24 31400201.38 0.0265 0.0044

Pluto 81258-11-20 03:08 G 31400258.62 31400258.63 31400258.68 0.0062 0.0062

Jupiter 81258-12-21 01:27 G 31400289.43 31400289.56 31400289.69 0.0501 0.0197

Saturn 81258-12-21 05:17 G 31400289.61 31400289.72 31400289.84 0.0266 0.0153 *

Pluto 81259-02-16 04:20 G 31400346.59 31400346.68 31400346.78 0.0062 0.0051

Saturn 81259-03-19 17:03 G 31400378.20 31400378.21 31400378.22 0.0266 0.0265

Pluto 81259-05-15 05:03 G 31400434.60 31400434.71 31400434.85 0.0063 0.0041

Pluto 81259-08-11 06:15 G 31400522.62 31400522.76 31400522.91 0.0063 0.0030

Pluto 81259-11-07 06:58 G 31400610.64 31400610.79 31400610.96 0.0063 0.0020

Pluto 81260-02-03 08:10 G 31400698.67 31400698.84 31400699.01 0.0063 0.0009

Pluto 81260-05-01 09:08 G 31400786.71 31400786.88 31400787.04 0.0063 0.0002

Pluto 81260-07-28 09:51 G 31400874.75 31400874.91 31400875.08 0.0063 0.0013

Pluto 81260-10-24 10:48 G 31400962.80 31400962.95 31400963.11 0.0063 0.0023

Pluto 81261-01-20 11:17 G 31401050.85 31401050.97 31401051.13 0.0063 0.0034

Pluto 81261-04-18 12:29 G 31401138.91 31401139.02 31401139.15 0.0063 0.0044

Pluto 81261-07-15 13:12 G 31401226.99 31401227.05 31401227.15 0.0063 0.0055

Uranus 81262-03-31 14:39 G 31401486.04 31401486.11 31401486.20 0.0134 0.0119

Uranus 81262-06-27 20:39 G 31401574.25 31401574.36 31401574.49 0.0134 0.0095

Uranus 81262-09-24 02:24 G 31401662.46 31401662.60 31401662.76 0.0134 0.0072

Uranus 81262-12-21 08:10 G 31401750.69 31401750.84 31401751.01 0.0134 0.0048

Uranus 81263-03-19 14:10 G 31401838.92 31401839.09 31401839.26 0.0134 0.0025

Uranus 81263-06-15 19:41 G 31401927.15 31401927.32 31401927.50 0.0134 0.0002

Uranus 81263-09-12 01:12 G 31402015.39 31402015.55 31402015.73 0.0134 0.0022

Mars 81263-10-10 15:08 G 31402044.03 31402044.13 31402044.23 0.1651 0.0876

Uranus 81263-12-09 06:58 G 31402103.63 31402103.79 31402103.95 0.0134 0.0045

Uranus 81264-03-06 12:29 G 31402191.87 31402192.02 31402192.17 0.0134 0.0067

Uranus 81264-06-02 17:46 G 31402280.13 31402280.24 31402280.38 0.0134 0.0090

Mars 81264-08-20 12:44 G 31402358.93 31402359.03 31402359.14 0.1877 0.1404

Uranus 81264-08-29 23:17 G 31402368.39 31402368.47 31402368.57 0.0134 0.0113

Jupiter 81265-02-19 14:10 G 31402541.93 31402542.09 31402542.25 0.0525 0.0108

Mars 81265-09-14 20:39 G 31402749.26 31402749.36 31402749.45 0.1671 0.1016

Jupiter 81270-10-09 05:32 G 31404599.59 31404599.73 31404599.87 0.0502 0.0039

Moon 81271-07-03 06:29 G 31404866.68 31404866.77 31404866.87 0.2620 0.1698

Earth 81271-07-03 07:12 G 31404866.71 31404866.80 31404866.89 0.2625 0.1718 *

Saturn 81272-11-03 18:00 G 31405356.12 31405356.25 31405356.40 0.0295 0.0172

Saturn 81273-01-31 16:05 G 31405445.00 31405445.17 31405445.34 0.0295 0.0015

Mars 81273-03-02 02:10 G 31405474.52 31405474.59 31405474.66 0.1647 0.1308

Saturn 81273-04-30 13:12 G 31405533.93 31405534.05 31405534.18 0.0294 0.0196

Mars 81275-02-05 06:58 G 31406179.68 31406179.79 31406179.90 0.1665 0.0537

Earth 81275-12-26 01:27 G 31406503.53 31406503.56 31406503.59 0.2708 0.2621

Moon 81275-12-26 02:53 G 31406503.58 31406503.62 31406503.66 0.2709 0.2563 *

Jupiter 81276-12-08 12:44 G 31406851.91 31406852.03 31406852.16 0.0524 0.0344

Earth 81278-06-26 00:44 G 31407416.46 31407416.53 31407416.61 0.2625 0.2029

Moon 81278-06-26 01:41 G 31407416.49 31407416.57 31407416.64 0.2622 0.1996 *

Jupiter 81282-07-28 09:36 G 31408909.77 31408909.90 31408910.04 0.0502 0.0120

Mars 81284-06-27 17:32 G 31409610.11 31409610.23 31409610.35 0.1660 0.0088

Mars 81285-05-09 21:36 G 31409926.27 31409926.40 31409926.53 0.1863 0.1075

Saturn 81287-08-17 20:24 G 31410756.28 31410756.35 31410756.44 0.0265 0.0212

Saturn 81287-11-14 07:41 G 31410844.69 31410844.82 31410844.94 0.0265 0.0107

Saturn 81288-02-10 18:44 G 31410933.14 31410933.28 31410933.42 0.0265 0.0006

Saturn 81288-05-09 06:15 G 31411021.63 31411021.76 31411021.89 0.0266 0.0108

Saturn 81288-08-05 17:46 G 31411110.16 31411110.24 31411110.32 0.0266 0.0219

Jupiter 81288-12-25 15:51 G 31411252.05 31411252.16 31411252.28 0.0527 0.0389

Earth 81288-12-28 02:53 G 31411254.48 31411254.62 31411254.75 0.2708 0.0624

Moon 81288-12-28 03:51 G 31411254.52 31411254.66 31411254.80 0.2705 0.0457 *

Venus 81291-02-22 22:48 G 31412041.32 31412041.45 31412041.59 0.3733 0.1236

Earth 81291-06-28 20:24 G 31412167.23 31412167.35 31412167.47 0.2624 0.0729

Moon 81291-06-28 20:53 G 31412167.25 31412167.37 31412167.49 0.2619 0.0665 *

Venus 81292-09-07 06:29 G 31412603.67 31412603.77 31412603.87 0.3639 0.1162

Mars 81293-11-18 04:20 G 31413040.57 31413040.68 31413040.80 0.1656 0.0384

Jupiter 81294-05-16 13:41 G 31413219.96 31413220.07 31413220.19 0.0503 0.0280

Jupiter 81294-08-13 21:08 G 31413309.30 31413309.38 31413309.47 0.0500 0.0388

Mars 81294-09-29 17:46 G 31413356.08 31413356.24 31413356.41 0.1870 0.0102

Mars 81295-10-24 10:20 G 31413745.89 31413745.93 31413745.97 0.1676 0.1555

Venus 81298-03-23 22:48 G 31414627.35 31414627.45 31414627.55 0.3639 0.1424

Jupiter 81300-10-14 15:22 G 31415561.98 31415562.14 31415562.29 0.0526 0.0164

Earth 81302-01-01 03:36 G 31416005.53 31416005.65 31416005.77 0.2708 0.1302

Moon 81302-01-01 04:05 G 31416005.55 31416005.67 31416005.79 0.2701 0.1349 *

Saturn 81302-03-24 14:24 G 31416088.01 31416088.10 31416088.20 0.0295 0.0249

Saturn 81302-06-21 12:44 G 31416176.86 31416177.03 31416177.20 0.0295 0.0061

Saturn 81302-09-18 10:05 G 31416265.77 31416265.92 31416266.08 0.0295 0.0124

Mars 81303-04-11 15:08 G 31416471.03 31416471.13 31416471.23 0.1651 0.0829

Uranus 81304-01-04 07:56 G 31416738.77 31416738.83 31416738.92 0.0144 0.0122

Mars 81304-02-20 13:56 G 31416785.96 31416786.08 31416786.19 0.1877 0.1287

Uranus 81304-04-01 12:15 G 31416826.92 31416827.01 31416827.12 0.0144 0.0099

Uranus 81304-06-28 16:34 G 31416915.07 31416915.19 31416915.32 0.0144 0.0076

Moon 81304-07-01 16:05 G 31416918.05 31416918.17 31416918.29 0.2618 0.0590

Earth 81304-07-01 16:20 G 31416918.06 31416918.18 31416918.30 0.2625 0.0611 *

Uranus 81304-09-24 20:53 G 31417003.24 31417003.37 31417003.51 0.0144 0.0052

Uranus 81304-12-22 01:12 G 31417091.41 31417091.55 31417091.69 0.0144 0.0029

Mars 81305-03-16 20:39 G 31417176.27 31417176.36 31417176.45 0.1670 0.1064

Uranus 81305-03-20 05:32 G 31417179.59 31417179.73 31417179.88 0.0144 0.0007

Uranus 81305-06-16 10:05 G 31417267.77 31417267.92 31417268.06 0.0144 0.0019

Uranus 81305-09-12 14:24 G 31417355.96 31417356.10 31417356.24 0.0144 0.0042

Uranus 81305-12-09 18:44 G 31417444.16 31417444.28 31417444.41 0.0144 0.0066

Jupiter 81306-03-05 17:03 G 31417530.16 31417530.21 31417530.27 0.0504 0.0455

Uranus 81306-03-07 23:03 G 31417532.36 31417532.46 31417532.58 0.0144 0.0091

Jupiter 81306-06-03 00:15 G 31417619.39 31417619.51 31417619.64 0.0501 0.0210

Uranus 81306-06-04 03:36 G 31417620.57 31417620.65 31417620.75 0.0144 0.0115

Uranus 81306-08-31 08:10 G 31417708.82 31417708.84 31417708.88 0.0144 0.0139

Jupiter 81312-08-02 14:10 G 31419871.92 31419872.09 31419872.25 0.0525 0.0072

Mars 81312-09-01 02:10 G 31419901.51 31419901.59 31419901.66 0.1647 0.1257

Mars 81314-08-07 06:58 G 31420606.68 31420606.79 31420606.90 0.1665 0.0585

Saturn 81317-01-04 23:32 G 31421488.42 31421488.48 31421488.54 0.0265 0.0238

Saturn 81317-04-03 10:34 G 31421576.82 31421576.94 31421577.06 0.0265 0.0134

Saturn 81317-06-30 21:36 G 31421665.26 31421665.40 31421665.54 0.0265 0.0028

Moon 81317-07-04 11:32 G 31421668.90 31421668.98 31421669.07 0.2622 0.1859

Earth 81317-07-04 12:29 G 31421668.94 31421669.02 31421669.10 0.2625 0.1993 *

Saturn 81317-09-27 08:53 G 31421753.74 31421753.87 31421754.01 0.0265 0.0080

Saturn 81317-12-24 20:24 G 31421842.26 31421842.35 31421842.45 0.0265 0.0190

Jupiter 81318-03-22 04:05 G 31421929.54 31421929.67 31421929.81 0.0502 0.0048

Neptune 81319-05-01 23:46 G 31422335.47 31422335.49 31422335.55 0.0090 0.0087

Neptune 81319-07-29 02:39 G 31422423.54 31422423.61 31422423.72 0.0090 0.0077

Neptune 81319-10-25 05:32 G 31422511.63 31422511.73 31422511.86 0.0090 0.0067

Neptune 81320-01-21 08:39 G 31422599.73 31422599.86 31422600.00 0.0090 0.0057

Neptune 81320-04-18 11:32 G 31422687.84 31422687.98 31422688.13 0.0090 0.0047

Neptune 81320-07-15 14:24 G 31422775.94 31422776.10 31422776.26 0.0090 0.0037

Neptune 81320-10-11 17:03 G 31422864.05 31422864.21 31422864.38 0.0090 0.0027

Neptune 81321-01-07 19:56 G 31422952.16 31422952.33 31422952.50 0.0090 0.0018

Neptune 81321-04-05 22:48 G 31423040.28 31423040.45 31423040.62 0.0090 0.0008

Neptune 81321-07-03 01:27 G 31423128.39 31423128.56 31423128.74 0.0090 0.0003

Neptune 81321-09-29 04:20 G 31423216.51 31423216.68 31423216.85 0.0090 0.0012

Neptune 81321-12-26 06:44 G 31423304.63 31423304.78 31423304.96 0.0090 0.0022

Earth 81321-12-27 07:27 G 31423305.73 31423305.81 31423305.88 0.2708 0.2250

Moon 81321-12-27 08:39 G 31423305.77 31423305.86 31423305.95 0.2709 0.2004 *

Neptune 81322-03-24 09:36 G 31423392.75 31423392.90 31423393.07 0.0090 0.0031

Neptune 81322-06-20 12:15 G 31423480.87 31423481.01 31423481.17 0.0090 0.0041

Neptune 81322-09-16 15:08 G 31423568.99 31423569.13 31423569.27 0.0090 0.0050

Neptune 81322-12-13 17:32 G 31423657.12 31423657.23 31423657.37 0.0090 0.0060

Neptune 81323-03-11 20:10 G 31423745.25 31423745.34 31423745.46 0.0090 0.0069

Neptune 81323-06-07 22:48 G 31423833.38 31423833.45 31423833.55 0.0090 0.0078

Neptune 81323-09-04 01:27 G 31423921.54 31423921.56 31423921.61 0.0090 0.0088

Mars 81323-12-28 17:32 G 31424037.11 31424037.23 31424037.35 0.1661 0.0131

Jupiter 81324-05-21 11:46 G 31424181.86 31424181.99 31424182.13 0.0524 0.0322

Earth 81324-06-27 05:46 G 31424218.66 31424218.74 31424218.83 0.2625 0.1779

Moon 81324-06-27 06:44 G 31424218.68 31424218.78 31424218.87 0.2621 0.1617 *

Mars 81324-11-08 22:20 G 31424353.31 31424353.43 31424353.55 0.1863 0.1166

Jupiter 81330-01-08 08:24 G 31426239.71 31426239.85 31426239.98 0.0503 0.0112

Saturn 81331-11-08 11:17 G 31426908.82 31426908.97 31426909.13 0.0295 0.0117

Saturn 81332-02-05 09:08 G 31426997.72 31426997.88 31426998.05 0.0295 0.0069

Saturn 81332-05-04 06:15 G 31427086.68 31427086.76 31427086.85 0.0295 0.0249

Mars 81333-05-20 04:20 G 31427467.56 31427467.68 31427467.80 0.1656 0.0331

Mars 81334-03-31 18:44 G 31427783.12 31427783.28 31427783.45 0.1870 0.0052

Earth 81334-12-30 08:39 G 31428056.72 31428056.86 31428057.00 0.2708 0.0253

Moon 81334-12-30 09:36 G 31428056.76 31428056.90 31428057.03 0.2703 0.0234 *

Mars 81335-04-25 10:20 G 31428172.90 31428172.93 31428172.96 0.1676 0.1608

Jupiter 81336-06-07 14:24 G 31428582.00 31428582.10 31428582.21 0.0527 0.0402

Moon 81337-06-30 01:41 G 31428969.45 31428969.57 31428969.69 0.2618 0.0488

Earth 81337-06-30 01:27 G 31428969.45 31428969.56 31428969.68 0.2625 0.0476 *

Jupiter 81341-10-27 12:29 G 31430549.91 31430550.02 31430550.14 0.0503 0.0268

Jupiter 81342-01-24 19:56 G 31430639.25 31430639.33 31430639.41 0.0500 0.0400

Mars 81342-10-10 15:08 G 31430898.03 31430898.13 31430898.23 0.1651 0.0775

Mars 81343-08-21 14:24 G 31431212.97 31431213.10 31431213.22 0.1877 0.1196

Venus 81343-09-30 11:46 G 31431252.92 31431252.99 31431253.06 0.3638 0.2748

Mars 81344-09-14 20:39 G 31431603.27 31431603.36 31431603.45 0.1670 0.1117

Uranus 81346-04-21 21:36 G 31432187.32 31432187.40 31432187.51 0.0134 0.0113

Uranus 81346-07-19 03:36 G 31432275.53 31432275.65 31432275.79 0.0134 0.0088

Saturn 81346-08-21 11:46 G 31432308.89 31432308.99 31432309.09 0.0265 0.0175

Uranus 81346-10-15 09:36 G 31432363.75 31432363.90 31432364.06 0.0134 0.0064

Saturn 81346-11-17 22:48 G 31432397.32 31432397.45 31432397.58 0.0265 0.0070

Uranus 81347-01-11 15:22 G 31432451.98 31432452.14 31432452.31 0.0134 0.0041

Saturn 81347-02-14 10:05 G 31432485.78 31432485.92 31432486.06 0.0265 0.0038

Uranus 81347-04-09 21:08 G 31432540.21 31432540.38 31432540.55 0.0134 0.0018

Saturn 81347-05-13 21:22 G 31432574.28 31432574.39 31432574.51 0.0266 0.0147

Uranus 81347-07-07 02:53 G 31432628.44 31432628.62 31432628.79 0.0134 0.0006

Saturn 81347-08-10 08:53 G 31432662.85 31432662.87 31432662.91 0.0266 0.0258

Venus 81347-09-30 23:17 G 31432714.34 31432714.47 31432714.61 0.3733 0.0867

Uranus 81347-10-03 08:24 G 31432716.68 31432716.85 31432717.02 0.0134 0.0029

Uranus 81347-12-30 13:56 G 31432804.93 31432805.08 31432805.24 0.0134 0.0052

Earth 81348-01-02 09:22 G 31432807.79 31432807.89 31432808.00 0.2708 0.1664

Moon 81348-01-02 09:51 G 31432807.80 31432807.91 31432808.01 0.2702 0.1709 *

Jupiter 81348-03-26 13:41 G 31432891.92 31432892.07 31432892.23 0.0526 0.0176

Uranus 81348-03-27 19:27 G 31432893.17 31432893.31 31432893.46 0.0134 0.0075

Uranus 81348-06-24 00:44 G 31432981.43 31432981.53 31432981.66 0.0134 0.0098

Uranus 81348-09-20 06:15 G 31433069.70 31433069.76 31433069.85 0.0134 0.0120

Venus 81349-04-15 04:05 G 31433276.56 31433276.67 31433276.78 0.3639 0.0215

Pluto 81350-01-07 15:22 G 31433544.05 31433544.14 31433544.24 0.0081 0.0063

Pluto 81350-04-05 17:03 G 31433632.08 31433632.21 31433632.34 0.0081 0.0043

Pluto 81350-07-02 18:29 G 31433720.13 31433720.27 31433720.42 0.0081 0.0022

Moon 81350-07-02 21:08 G 31433720.26 31433720.38 31433720.50 0.2618 0.0844 *

Earth 81350-07-02 21:22 G 31433720.28 31433720.39 31433720.51 0.2625 0.0887 *

Pluto 81350-09-28 19:56 G 31433808.18 31433808.33 31433808.49 0.0081 0.0003

Pluto 81350-12-25 21:36 G 31433896.25 31433896.40 31433896.54 0.0081 0.0019

Pluto 81351-03-23 22:48 G 31433984.33 31433984.45 31433984.59 0.0081 0.0040

Pluto 81351-06-20 00:15 G 31434072.42 31434072.51 31434072.62 0.0081 0.0060

Pluto 81351-09-16 01:56 G 31434160.58 31434160.58 31434160.59 0.0080 0.0080

Mars 81352-03-02 02:10 G 31434328.51 31434328.59 31434328.66 0.1647 0.1210

Jupiter 81353-08-15 16:34 G 31434860.13 31434860.19 31434860.26 0.0504 0.0427

Jupiter 81353-11-13 00:00 G 31434949.37 31434949.50 31434949.62 0.0501 0.0238

Mars 81354-02-05 06:58 G 31435033.68 31435033.79 31435033.90 0.1665 0.0637

Venus 81354-10-29 20:39 G 31435300.28 31435300.36 31435300.44 0.3639 0.2401

Jupiter 81360-01-13 12:58 G 31437201.88 31437202.04 31437202.21 0.0525 0.0051

Saturn 81361-03-27 07:27 G 31437640.68 31437640.81 31437640.94 0.0295 0.0196

Saturn 81361-06-24 05:32 G 31437729.56 31437729.73 31437729.90 0.0295 0.0009

Mars 81361-07-23 13:12 G 31437759.04 31437759.05 31437759.06 0.1643 0.1631

Saturn 81361-09-21 03:08 G 31437818.49 31437818.63 31437818.76 0.0295 0.0174

Mars 81363-06-28 17:32 G 31438464.11 31438464.23 31438464.35 0.1660 0.0170

Moon 81363-07-05 16:34 G 31438471.13 31438471.19 31438471.26 0.2623 0.2175

Earth 81363-07-05 17:32 G 31438471.17 31438471.23 31438471.29 0.2625 0.2261 *

Mars 81364-05-09 23:03 G 31438780.35 31438780.46 31438780.58 0.1864 0.1265

Jupiter 81365-09-01 03:08 G 31439259.49 31439259.63 31439259.76 0.0502 0.0061

Earth 81367-12-28 13:12 G 31440107.95 31440108.05 31440108.15 0.2708 0.1870

Moon 81367-12-28 14:24 G 31440108.00 31440108.10 31440108.20 0.2708 0.1821 *

Earth 81370-06-28 11:03 G 31441020.86 31441020.96 31441021.05 0.2624 0.1518

Moon 81370-06-28 11:46 G 31441020.89 31441020.99 31441021.09 0.2621 0.1500 *

Jupiter 81371-11-01 11:46 G 31441511.85 31441511.99 31441512.13 0.0524 0.0284

Mars 81372-11-18 04:20 G 31441894.56 31441894.68 31441894.79 0.1656 0.0284

Mars 81373-09-29 19:41 G 31442210.15 31442210.32 31442210.48 0.1870 0.0132

Mars 81374-10-24 10:20 G 31442599.91 31442599.93 31442599.94 0.1675 0.1653

Saturn 81376-01-08 14:39 G 31443041.02 31443041.11 31443041.20 0.0265 0.0201

Saturn 81376-04-06 01:41 G 31443129.44 31443129.57 31443129.70 0.0265 0.0097

Saturn 81376-07-03 12:44 G 31443217.89 31443218.03 31443218.17 0.0265 0.0013

Saturn 81376-09-30 00:15 G 31443306.38 31443306.51 31443306.64 0.0265 0.0119

Saturn 81376-12-27 11:46 G 31443394.92 31443394.99 31443395.06 0.0265 0.0229

Jupiter 81377-06-20 06:58 G 31443569.65 31443569.79 31443569.92 0.0503 0.0106

Earth 81380-12-30 14:24 G 31444858.96 31444859.10 31444859.24 0.2708 0.0109

Moon 81380-12-30 15:08 G 31444859.00 31444859.13 31444859.27 0.2703 0.0306 *

Mars 81382-04-10 15:08 G 31445325.02 31445325.13 31445325.24 0.1651 0.0724

Mars 81383-02-19 15:08 G 31445640.00 31445640.13 31445640.27 0.1877 0.1084

Moon 81383-07-01 06:44 G 31445771.66 31445771.78 31445771.90 0.2618 0.0136

Earth 81383-07-01 06:44 G 31445771.66 31445771.78 31445771.90 0.2625 0.0203 *

Jupiter 81383-11-18 13:27 G 31445911.97 31445912.06 31445912.16 0.0526 0.0422

Mars 81384-03-15 20:39 G 31446030.27 31446030.36 31446030.44 0.1670 0.1168

Uranus 81387-10-28 11:32 G 31447351.94 31447351.98 31447352.03 0.0144 0.0136

Uranus 81388-01-24 15:51 G 31447440.07 31447440.16 31447440.24 0.0144 0.0113

Uranus 81388-04-21 19:56 G 31447528.23 31447528.33 31447528.44 0.0144 0.0090

Uranus 81388-07-19 00:15 G 31447616.39 31447616.51 31447616.64 0.0144 0.0067

Uranus 81388-10-15 04:34 G 31447704.55 31447704.69 31447704.83 0.0144 0.0044

Uranus 81389-01-11 08:53 G 31447792.73 31447792.87 31447793.01 0.0144 0.0021

Jupiter 81389-04-08 11:03 G 31447879.85 31447879.96 31447880.08 0.0503 0.0263

Uranus 81389-04-09 13:12 G 31447880.91 31447881.05 31447881.20 0.0144 0.0004

Uranus 81389-07-06 17:32 G 31447969.09 31447969.23 31447969.38 0.0144 0.0027

Jupiter 81389-07-06 18:29 G 31447969.20 31447969.27 31447969.35 0.0501 0.0408 *

Uranus 81389-10-02 22:05 G 31448057.28 31448057.42 31448057.55 0.0144 0.0051

Uranus 81389-12-30 02:24 G 31448145.48 31448145.60 31448145.73 0.0144 0.0075

Uranus 81390-03-28 06:58 G 31448233.69 31448233.79 31448233.90 0.0144 0.0099

Uranus 81390-06-24 11:32 G 31448321.91 31448321.98 31448322.05 0.0144 0.0123

Saturn 81390-08-14 06:29 G 31448372.69 31448372.77 31448372.87 0.0296 0.0250

Saturn 81390-11-11 04:48 G 31448461.53 31448461.70 31448461.87 0.0295 0.0061

Saturn 81391-02-08 02:24 G 31448550.45 31448550.60 31448550.76 0.0295 0.0123

Mars 81391-09-01 02:10 G 31448755.50 31448755.59 31448755.67 0.1647 0.1158

Mars 81393-08-06 06:58 G 31449460.68 31449460.79 31449460.90 0.1665 0.0690

Moon 81394-01-02 15:08 G 31449610.04 31449610.13 31449610.23 0.2702 0.1957

Earth 81394-01-02 15:08 G 31449610.04 31449610.13 31449610.22 0.2708 0.2016 *

Jupiter 81395-09-06 12:15 G 31450221.86 31450222.01 31450222.17 0.0526 0.0189

Moon 81396-07-03 02:10 G 31450522.48 31450522.59 31450522.70 0.2619 0.1062

Earth 81396-07-03 02:39 G 31450522.50 31450522.61 31450522.72 0.2625 0.1150 *

Venus 81398-10-21 20:10 G 31451363.28 31451363.34 31451363.41 0.3734 0.3275

Venus 81400-05-07 09:22 G 31451925.80 31451925.89 31451925.98 0.3638 0.1804

Mars 81401-01-22 12:58 G 31452186.02 31452186.04 31452186.07 0.1643 0.1582

Jupiter 81401-01-26 15:22 G 31452190.07 31452190.14 31452190.21 0.0504 0.0419

Neptune 81401-04-25 09:08 G 31452278.83 31452278.88 31452278.93 0.0088 0.0081

Jupiter 81401-04-25 22:34 G 31452279.32 31452279.44 31452279.56 0.0501 0.0248

Neptune 81401-07-22 10:34 G 31452366.87 31452366.94 31452367.02 0.0088 0.0074

Neptune 81401-10-18 12:00 G 31452454.92 31452455.00 31452455.11 0.0088 0.0067

Neptune 81402-01-14 13:41 G 31452542.98 31452543.07 31452543.19 0.0088 0.0059

Neptune 81402-04-12 15:22 G 31452631.03 31452631.14 31452631.26 0.0088 0.0051

Neptune 81402-07-09 17:03 G 31452719.09 31452719.21 31452719.34 0.0088 0.0044

Neptune 81402-10-05 18:29 G 31452807.15 31452807.27 31452807.41 0.0088 0.0037

Mars 81402-12-28 17:32 G 31452891.11 31452891.23 31452891.35 0.1660 0.0223

Neptune 81403-01-01 20:24 G 31452895.21 31452895.35 31452895.49 0.0088 0.0029

Neptune 81403-03-30 22:05 G 31452983.28 31452983.42 31452983.56 0.0088 0.0021

Neptune 81403-06-26 23:32 G 31453071.34 31453071.48 31453071.63 0.0088 0.0014

Earth 81403-06-27 20:24 G 31453072.33 31453072.35 31453072.38 0.2624 0.2553

Moon 81403-06-27 21:22 G 31453072.36 31453072.39 31453072.42 0.2624 0.2502 *

Neptune 81403-09-23 01:12 G 31453159.41 31453159.55 31453159.70 0.0088 0.0007

Mars 81403-11-09 23:46 G 31453207.38 31453207.49 31453207.60 0.1863 0.1359

Neptune 81403-12-20 02:53 G 31453247.48 31453247.62 31453247.77 0.0088 0.0003

Neptune 81404-03-17 04:34 G 31453335.55 31453335.69 31453335.84 0.0088 0.0010

Venus 81404-05-08 00:00 G 31453387.41 31453387.50 31453387.58 0.3733 0.2956

Neptune 81404-06-13 06:15 G 31453423.62 31453423.76 31453423.91 0.0088 0.0017

Neptune 81404-09-09 07:56 G 31453511.69 31453511.83 31453511.97 0.0088 0.0025

Neptune 81404-12-06 09:36 G 31453599.77 31453599.90 31453600.04 0.0088 0.0033

Neptune 81405-03-04 11:17 G 31453687.85 31453687.97 31453688.10 0.0088 0.0041

Saturn 81405-05-28 16:20 G 31453773.12 31453773.18 31453773.23 0.0265 0.0239

Neptune 81405-05-31 12:44 G 31453775.92 31453776.03 31453776.17 0.0088 0.0049

Saturn 81405-08-25 03:08 G 31453861.51 31453861.63 31453861.75 0.0265 0.0135

Neptune 81405-08-27 14:39 G 31453864.01 31453864.11 31453864.23 0.0088 0.0056

Venus 81405-11-21 01:41 G 31453949.47 31453949.57 31453949.68 0.3639 0.0759

Saturn 81405-11-21 14:10 G 31453949.96 31453950.09 31453950.23 0.0265 0.0031

Neptune 81405-11-23 16:20 G 31453952.09 31453952.18 31453952.29 0.0088 0.0064

Saturn 81406-02-18 01:41 G 31454038.43 31454038.57 31454038.70 0.0265 0.0079

Neptune 81406-02-19 18:00 G 31454040.18 31454040.25 31454040.34 0.0088 0.0072

Saturn 81406-05-17 12:58 G 31454126.94 31454127.04 31454127.14 0.0265 0.0188

Neptune 81406-05-18 19:41 G 31454128.27 31454128.32 31454128.39 0.0088 0.0080

Neptune 81406-08-14 21:36 G 31454216.40 31454216.40 31454216.41 0.0088 0.0087

Jupiter 81407-06-26 11:17 G 31454531.81 31454531.97 31454532.14 0.0525 0.0043

Moon 81409-07-06 21:51 G 31455273.36 31455273.41 31455273.45 0.2623 0.2424

Earth 81409-07-06 22:48 G 31455273.42 31455273.45 31455273.47 0.2625 0.2541 *

Venus 81411-06-06 18:15 G 31455973.22 31455973.26 31455973.30 0.3640 0.3392

Mars 81412-05-20 04:20 G 31456321.56 31456321.68 31456321.80 0.1656 0.0232

Jupiter 81413-02-12 02:39 G 31456589.47 31456589.61 31456589.74 0.0502 0.0086

Mars 81413-03-31 20:10 G 31456637.18 31456637.34 31456637.50 0.1870 0.0213

Earth 81413-12-29 18:58 G 31456910.18 31456910.29 31456910.41 0.2708 0.1498

Moon 81413-12-29 20:10 G 31456910.22 31456910.34 31456910.46 0.2706 0.1283 *

Earth 81416-06-29 16:05 G 31457823.06 31457823.17 31457823.27 0.2625 0.1264

Moon 81416-06-29 16:34 G 31457823.08 31457823.19 31457823.30 0.2620 0.1129 *

Jupiter 81419-04-14 10:34 G 31458841.80 31458841.94 31458842.09 0.0524 0.0266

Saturn 81420-03-31 00:58 G 31459193.39 31459193.54 31459193.70 0.0295 0.0139

Saturn 81420-06-27 22:48 G 31459282.29 31459282.45 31459282.62 0.0295 0.0048

Saturn 81420-09-24 20:10 G 31459371.24 31459371.34 31459371.45 0.0295 0.0229

Mars 81421-10-10 14:53 G 31459752.02 31459752.12 31459752.23 0.1651 0.0680

Mars 81422-08-21 16:05 G 31460067.03 31460067.17 31460067.31 0.1877 0.0974

Mars 81423-09-15 20:39 G 31460457.28 31460457.36 31460457.44 0.1670 0.1216

Jupiter 81424-12-01 05:46 G 31460899.60 31460899.74 31460899.87 0.0503 0.0095

Earth 81427-01-01 20:10 G 31461661.21 31461661.34 31461661.47 0.2708 0.0474

Moon 81427-01-01 20:53 G 31461661.24 31461661.37 31461661.51 0.2703 0.0477 *

Moon 81429-07-02 11:46 G 31462573.87 31462573.99 31462574.12 0.2618 0.0089

Earth 81429-07-02 11:46 G 31462573.87 31462573.99 31462574.11 0.2625 0.0086 *

Uranus 81430-02-13 22:34 G 31462800.41 31462800.44 31462800.50 0.0134 0.0130

Uranus 81430-05-13 04:34 G 31462888.59 31462888.69 31462888.81 0.0134 0.0106

Uranus 81430-08-09 10:20 G 31462976.81 31462976.93 31462977.08 0.0134 0.0083

Uranus 81430-11-05 16:20 G 31463065.03 31463065.18 31463065.34 0.0134 0.0059

Jupiter 81431-01-31 09:08 G 31463151.84 31463151.88 31463151.93 0.0523 0.0503

Uranus 81431-02-01 22:05 G 31463153.26 31463153.42 31463153.59 0.0134 0.0035

Mars 81431-03-03 01:56 G 31463182.50 31463182.58 31463182.67 0.1647 0.1109

Uranus 81431-05-01 03:51 G 31463241.49 31463241.66 31463241.84 0.0134 0.0012

Jupiter 81431-05-01 13:12 G 31463241.98 31463242.05 31463242.14 0.0526 0.0457

Uranus 81431-07-28 09:36 G 31463329.73 31463329.90 31463330.07 0.0134 0.0012

Uranus 81431-10-24 15:08 G 31463417.97 31463418.13 31463418.30 0.0134 0.0035

Uranus 81432-01-20 20:53 G 31463506.21 31463506.37 31463506.52 0.0134 0.0058

Uranus 81432-04-18 02:10 G 31463594.46 31463594.59 31463594.74 0.0134 0.0081

Uranus 81432-07-15 07:41 G 31463682.72 31463682.82 31463682.94 0.0134 0.0103

Uranus 81432-10-11 13:12 G 31463771.00 31463771.05 31463771.12 0.0134 0.0125

Mars 81433-02-05 06:58 G 31463887.68 31463887.79 31463887.89 0.1665 0.0737

Saturn 81435-01-12 06:00 G 31464593.65 31464593.75 31464593.86 0.0265 0.0162

Saturn 81435-04-10 17:17 G 31464682.08 31464682.22 31464682.35 0.0265 0.0057

Saturn 81435-07-08 04:34 G 31464770.55 31464770.69 31464770.82 0.0265 0.0052

Saturn 81435-10-04 15:51 G 31464859.05 31464859.16 31464859.28 0.0265 0.0161

Jupiter 81436-09-19 09:36 G 31465209.78 31465209.90 31465210.01 0.0503 0.0259

Jupiter 81436-12-17 17:03 G 31465299.13 31465299.21 31465299.29 0.0501 0.0411

Moon 81440-01-04 20:39 G 31466412.30 31466412.36 31466412.42 0.2701 0.2406

Earth 81440-01-04 20:53 G 31466412.31 31466412.37 31466412.43 0.2708 0.2370 *

Mars 81440-07-23 12:58 G 31466613.00 31466613.04 31466613.08 0.1643 0.1530

Mars 81442-06-28 17:32 G 31467318.12 31467318.23 31467318.35 0.1661 0.0278

Moon 81442-07-05 07:12 G 31467324.69 31467324.80 31467324.90 0.2620 0.1401

Earth 81442-07-05 07:41 G 31467324.72 31467324.82 31467324.93 0.2625 0.1425 *

Jupiter 81443-02-17 11:17 G 31467551.82 31467551.97 31467552.12 0.0525 0.0207

Mars 81443-05-11 00:29 G 31467634.42 31467634.52 31467634.62 0.1863 0.1457

Jupiter 81448-07-08 13:41 G 31469520.00 31469520.07 31469520.15 0.0504 0.0417

Jupiter 81448-10-05 20:53 G 31469609.26 31469609.37 31469609.50 0.0501 0.0252

Earth 81449-06-28 01:27 G 31469874.51 31469874.56 31469874.62 0.2625 0.2303

Moon 81449-06-28 02:24 G 31469874.54 31469874.60 31469874.67 0.2624 0.2161 *

Saturn 81449-08-18 00:44 G 31469925.40 31469925.53 31469925.67 0.0296 0.0187

Saturn 81449-11-14 22:48 G 31470014.28 31470014.45 31470014.62 0.0295 0.0000

Saturn 81450-02-11 20:10 G 31470103.21 31470103.34 31470103.48 0.0295 0.0183

Venus 81451-05-29 14:39 G 31470575.08 31470575.11 31470575.15 0.3637 0.3367

Mars 81451-11-19 04:20 G 31470748.56 31470748.68 31470748.79 0.1656 0.0188

Mars 81452-09-29 20:53 G 31471064.21 31471064.37 31471064.53 0.1870 0.0322

Jupiter 81454-12-06 09:51 G 31471861.74 31471861.91 31471862.08 0.0525 0.0031

Venus 81455-05-29 20:53 G 31472036.24 31472036.37 31472036.50 0.3734 0.1103

Venus 81456-12-12 06:58 G 31472598.69 31472598.79 31472598.90 0.3638 0.0854

Earth 81459-12-31 00:58 G 31473712.41 31473712.54 31473712.66 0.2708 0.1114

Moon 81459-12-31 02:10 G 31473712.46 31473712.59 31473712.71 0.2705 0.1042 *

Jupiter 81460-07-25 00:58 G 31473919.41 31473919.54 31473919.68 0.0502 0.0093

Mars 81461-04-10 15:08 G 31474179.02 31474179.13 31474179.24 0.1651 0.0626

Mars 81462-02-19 16:34 G 31474494.05 31474494.19 31474494.34 0.1877 0.0879

Venus 81462-06-27 23:17 G 31474622.38 31474622.47 31474622.57 0.3639 0.1739

Earth 81462-06-30 21:08 G 31474625.27 31474625.38 31474625.49 0.2624 0.1005

Moon 81462-06-30 21:36 G 31474625.29 31474625.40 31474625.51 0.2619 0.1007 *

Mars 81463-03-16 20:39 G 31474884.28 31474884.36 31474884.43 0.1670 0.1268

Saturn 81464-05-31 07:56 G 31475325.75 31475325.83 31475325.93 0.0265 0.0197

Saturn 81464-08-27 18:58 G 31475414.16 31475414.29 31475414.42 0.0265 0.0092

Saturn 81464-11-24 06:15 G 31475502.62 31475502.76 31475502.90 0.0265 0.0015

Saturn 81465-02-20 17:32 G 31475591.11 31475591.23 31475591.36 0.0265 0.0123

Saturn 81465-05-20 05:03 G 31475679.65 31475679.71 31475679.78 0.0265 0.0233

Jupiter 81466-09-24 08:24 G 31476171.71 31476171.85 31476172.00 0.0524 0.0266

Mars 81470-09-01 01:56 G 31477609.49 31477609.58 31477609.67 0.1647 0.1059

Uranus 81471-11-18 18:29 G 31478053.23 31478053.27 31478053.35 0.0144 0.0130

Uranus 81472-02-14 22:48 G 31478141.37 31478141.45 31478141.55 0.0144 0.0107

Uranus 81472-05-13 03:08 G 31478229.52 31478229.63 31478229.75 0.0144 0.0084

Jupiter 81472-05-13 05:03 G 31478229.58 31478229.71 31478229.85 0.0502 0.0071 *

Mars 81472-08-06 06:58 G 31478314.69 31478314.79 31478314.90 0.1665 0.0790

Uranus 81472-08-09 07:27 G 31478317.69 31478317.81 31478317.94 0.0144 0.0061

Uranus 81472-11-05 11:46 G 31478405.86 31478405.99 31478406.13 0.0144 0.0037

Earth 81473-01-02 01:56 G 31478463.45 31478463.58 31478463.71 0.2708 0.0838

Moon 81473-01-02 02:39 G 31478463.48 31478463.61 31478463.73 0.2703 0.0990 *

Uranus 81473-02-01 16:05 G 31478494.03 31478494.17 31478494.32 0.0144 0.0014

Uranus 81473-04-30 20:24 G 31478582.21 31478582.35 31478582.50 0.0144 0.0011

Uranus 81473-07-28 00:58 G 31478670.40 31478670.54 31478670.68 0.0144 0.0034

Uranus 81473-10-24 05:17 G 31478758.59 31478758.72 31478758.85 0.0144 0.0058

Uranus 81474-01-20 09:36 G 31478846.79 31478846.90 31478847.03 0.0144 0.0082

Uranus 81474-04-18 14:10 G 31478935.00 31478935.09 31478935.19 0.0144 0.0106

Uranus 81474-07-15 18:44 G 31479023.22 31479023.28 31479023.34 0.0144 0.0130

Moon 81475-07-03 16:48 G 31479376.08 31479376.20 31479376.32 0.2618 0.0388

Earth 81475-07-03 17:03 G 31479376.08 31479376.21 31479376.33 0.2624 0.0340 *

Jupiter 81478-07-13 07:27 G 31480481.76 31480481.81 31480481.87 0.0523 0.0492

Jupiter 81478-10-11 11:46 G 31480571.92 31480571.99 31480572.07 0.0527 0.0470

Saturn 81479-01-04 20:53 G 31480657.30 31480657.37 31480657.45 0.0295 0.0265

Saturn 81479-04-03 19:12 G 31480746.14 31480746.30 31480746.47 0.0295 0.0076

Saturn 81479-07-01 17:03 G 31480835.05 31480835.21 31480835.37 0.0295 0.0109

Saturn 81479-09-28 14:10 G 31480924.06 31480924.09 31480924.12 0.0295 0.0289

Mars 81480-01-22 12:58 G 31481039.99 31481040.04 31481040.09 0.1643 0.1482

Mars 81481-12-27 17:32 G 31481745.11 31481745.23 31481745.35 0.1660 0.0321

Mars 81482-11-09 01:12 G 31482061.46 31482061.55 31482061.64 0.1864 0.1550

Neptune 81484-01-27 23:17 G 31482506.40 31482506.47 31482506.55 0.0090 0.0080

Jupiter 81484-03-01 08:10 G 31482539.72 31482539.84 31482539.96 0.0503 0.0251

Neptune 81484-04-25 02:10 G 31482594.49 31482594.59 31482594.70 0.0090 0.0070

Jupiter 81484-05-29 15:36 G 31482629.08 31482629.15 31482629.23 0.0501 0.0419

Neptune 81484-07-22 04:48 G 31482682.59 31482682.70 31482682.84 0.0090 0.0061

Neptune 81484-10-18 07:41 G 31482770.69 31482770.82 31482770.98 0.0090 0.0051

Neptune 81485-01-14 10:34 G 31482858.80 31482858.94 31482859.11 0.0090 0.0041

Neptune 81485-04-12 13:27 G 31482946.90 31482947.06 31482947.23 0.0090 0.0031

Neptune 81485-07-09 16:20 G 31483035.02 31483035.18 31483035.35 0.0090 0.0021

Neptune 81485-10-05 19:12 G 31483123.13 31483123.30 31483123.47 0.0090 0.0011

Neptune 81486-01-01 22:05 G 31483211.24 31483211.42 31483211.59 0.0090 0.0002

Moon 81486-01-05 02:24 G 31483214.56 31483214.60 31483214.63 0.2701 0.2584

Neptune 81486-03-31 00:44 G 31483299.36 31483299.53 31483299.70 0.0090 0.0008

Neptune 81486-06-27 03:36 G 31483387.48 31483387.65 31483387.81 0.0090 0.0018

Neptune 81486-09-23 06:00 G 31483475.60 31483475.75 31483475.92 0.0090 0.0028

Neptune 81486-12-20 08:39 G 31483563.72 31483563.86 31483564.03 0.0090 0.0038

Neptune 81487-03-18 11:32 G 31483651.84 31483651.98 31483652.13 0.0090 0.0047

Neptune 81487-06-14 14:24 G 31483739.97 31483740.10 31483740.23 0.0090 0.0056

Neptune 81487-09-10 16:48 G 31483828.10 31483828.20 31483828.33 0.0090 0.0066

Neptune 81487-12-07 19:41 G 31483916.23 31483916.32 31483916.41 0.0090 0.0075

Neptune 81488-03-04 22:05 G 31484004.38 31484004.42 31484004.49 0.0090 0.0085

Moon 81488-07-05 12:00 G 31484126.91 31484127.00 31484127.10 0.2621 0.1538

Earth 81488-07-05 12:58 G 31484126.94 31484127.04 31484127.13 0.2625 0.1697 *

Jupiter 81490-07-30 10:48 G 31484881.80 31484881.95 31484882.10 0.0526 0.0237

Mars 81491-05-20 04:20 G 31485175.56 31485175.68 31485175.79 0.1656 0.0141

Mars 81492-03-30 21:51 G 31485491.25 31485491.41 31485491.57 0.1870 0.0427

Moon 81492-12-28 06:29 G 31485763.74 31485763.77 31485763.80 0.2710 0.2616

Saturn 81493-10-18 10:48 G 31486057.89 31486057.95 31486058.03 0.0265 0.0223

Saturn 81494-01-14 22:05 G 31486146.29 31486146.42 31486146.54 0.0265 0.0118

Saturn 81494-04-13 09:08 G 31486234.74 31486234.88 31486235.02 0.0265 0.0012

Saturn 81494-07-10 20:24 G 31486323.22 31486323.35 31486323.48 0.0265 0.0097

Saturn 81494-10-07 07:56 G 31486411.74 31486411.83 31486411.92 0.0265 0.0206

Earth 81495-06-29 06:44 G 31486676.70 31486676.78 31486676.85 0.2624 0.2052

Moon 81495-06-29 07:27 G 31486676.73 31486676.81 31486676.89 0.2623 0.1978 *

Jupiter 81495-12-19 12:00 G 31486849.93 31486850.00 31486850.08 0.0504 0.0416

Jupiter 81496-03-17 19:12 G 31486939.19 31486939.30 31486939.42 0.0501 0.0251

Mars 81500-10-10 14:53 G 31488606.01 31488606.12 31488606.24 0.1651 0.0578

Mars 81501-08-21 17:32 G 31488921.08 31488921.23 31488921.37 0.1877 0.0777

Jupiter 81502-05-19 08:24 G 31489191.69 31489191.85 31489192.02 0.0525 0.0020

Mars 81502-09-15 20:39 G 31489311.29 31489311.36 31489311.43 0.1670 0.1320

Earth 81506-01-01 06:44 G 31490514.65 31490514.78 31490514.91 0.2708 0.0745

Moon 81506-01-01 07:56 G 31490514.69 31490514.83 31490514.96 0.2705 0.0566 *

Pluto 81506-12-19 11:32 G 31490866.90 31490866.98 31490867.06 0.0062 0.0054

Pluto 81507-03-17 12:00 G 31490954.90 31490955.00 31490955.14 0.0062 0.0044

Pluto 81507-06-13 13:12 G 31491042.91 31491043.05 31491043.20 0.0062 0.0033

Pluto 81507-09-09 13:56 G 31491130.94 31491131.08 31491131.25 0.0063 0.0023

Pluto 81507-12-06 15:08 G 31491218.97 31491219.13 31491219.30 0.0063 0.0012

Venus 81508-01-04 12:15 G 31491247.94 31491248.01 31491248.09 0.3637 0.2427

Jupiter 81508-01-05 23:17 G 31491249.34 31491249.47 31491249.61 0.0502 0.0091

Pluto 81508-03-03 16:05 G 31491307.00 31491307.17 31491307.34 0.0063 0.0001

Pluto 81508-05-30 17:03 G 31491395.04 31491395.21 31491395.37 0.0063 0.0009

Earth 81508-07-02 02:10 G 31491427.48 31491427.59 31491427.71 0.2625 0.0751

Moon 81508-07-02 02:39 G 31491427.49 31491427.61 31491427.73 0.2618 0.0661 *

Saturn 81508-08-21 19:56 G 31491478.17 31491478.33 31491478.48 0.0296 0.0118

Pluto 81508-08-26 17:46 G 31491483.09 31491483.24 31491483.40 0.0063 0.0020

Saturn 81508-11-18 17:46 G 31491567.07 31491567.24 31491567.40 0.0295 0.0069

Pluto 81508-11-22 18:29 G 31491571.14 31491571.27 31491571.43 0.0063 0.0031

Saturn 81509-02-15 14:53 G 31491656.04 31491656.12 31491656.21 0.0295 0.0249

Pluto 81509-02-18 19:27 G 31491659.20 31491659.31 31491659.45 0.0063 0.0041

Pluto 81509-05-17 20:10 G 31491747.27 31491747.34 31491747.45 0.0063 0.0052

Pluto 81509-08-13 21:22 G 31491835.38 31491835.39 31491835.42 0.0063 0.0063

Mars 81510-03-03 01:56 G 31492036.49 31492036.58 31492036.67 0.1647 0.1008

Venus 81512-01-04 21:36 G 31492709.26 31492709.40 31492709.53 0.3733 0.1052

Mars 81512-02-06 06:58 G 31492741.69 31492741.79 31492741.89 0.1665 0.0839

Venus 81513-07-20 04:34 G 31493271.58 31493271.69 31493271.80 0.3638 0.0132

Jupiter 81514-03-07 06:44 G 31493501.64 31493501.78 31493501.93 0.0524 0.0258

Uranus 81514-03-07 05:32 G 31493501.67 31493501.73 31493501.81 0.0134 0.0123 *

Uranus 81514-06-03 11:32 G 31493589.87 31493589.98 31493590.10 0.0134 0.0099

Uranus 81514-08-30 17:32 G 31493678.09 31493678.23 31493678.37 0.0134 0.0076

Uranus 81514-11-26 23:03 G 31493766.31 31493766.46 31493766.63 0.0134 0.0053

Uranus 81515-02-23 05:03 G 31493854.54 31493854.71 31493854.88 0.0134 0.0029

Uranus 81515-05-22 10:48 G 31493942.78 31493942.95 31493943.12 0.0134 0.0005

Uranus 81515-08-18 16:34 G 31494031.02 31494031.19 31494031.36 0.0134 0.0018

Uranus 81515-11-14 22:05 G 31494119.26 31494119.42 31494119.59 0.0134 0.0041

Uranus 81516-02-11 03:36 G 31494207.50 31494207.65 31494207.80 0.0134 0.0064

Uranus 81516-05-09 09:08 G 31494295.76 31494295.88 31494296.02 0.0134 0.0087

Uranus 81516-08-05 14:24 G 31494384.02 31494384.10 31494384.21 0.0134 0.0110

Uranus 81516-11-01 20:10 G 31494472.31 31494472.34 31494472.37 0.0134 0.0132

Earth 81519-01-04 07:56 G 31495265.70 31495265.83 31495265.95 0.2708 0.1213

Moon 81519-01-04 08:10 G 31495265.72 31495265.84 31495265.96 0.2702 0.1171 *

Venus 81519-02-02 21:08 G 31495295.31 31495295.38 31495295.45 0.3639 0.2717

Mars 81519-07-24 12:58 G 31495466.99 31495467.04 31495467.10 0.1643 0.1431

Jupiter 81519-10-25 03:22 G 31495559.51 31495559.64 31495559.78 0.0503 0.0070

Mars 81521-06-28 17:32 G 31496172.11 31496172.23 31496172.35 0.1660 0.0375

Moon 81521-07-04 21:51 G 31496178.29 31496178.41 31496178.53 0.2619 0.0504

Earth 81521-07-04 22:05 G 31496178.30 31496178.42 31496178.54 0.2624 0.0595 *

Mars 81522-05-11 01:56 G 31496488.51 31496488.58 31496488.65 0.1863 0.1648

Saturn 81523-03-08 13:12 G 31496790.02 31496790.05 31496790.09 0.0265 0.0254

Saturn 81523-06-05 00:15 G 31496878.40 31496878.51 31496878.63 0.0265 0.0150

Saturn 81523-09-01 11:17 G 31496966.83 31496966.97 31496967.11 0.0265 0.0045

Saturn 81523-11-28 22:34 G 31497055.30 31497055.44 31497055.58 0.0265 0.0063

Saturn 81524-02-25 09:51 G 31497143.81 31497143.91 31497144.02 0.0265 0.0172

Jupiter 81525-12-24 05:17 G 31497811.67 31497811.72 31497811.77 0.0523 0.0497

Jupiter 81526-03-24 09:22 G 31497901.82 31497901.89 31497901.97 0.0527 0.0465

Mars 81530-11-19 04:05 G 31499602.56 31499602.67 31499602.79 0.1656 0.0102

Jupiter 81531-08-13 07:27 G 31499869.69 31499869.81 31499869.93 0.0503 0.0231

Mars 81531-09-30 22:20 G 31499918.27 31499918.43 31499918.58 0.1871 0.0508

Jupiter 81531-11-10 14:53 G 31499959.06 31499959.12 31499959.19 0.0500 0.0439

Moon 81534-07-07 17:17 G 31500929.14 31500929.22 31500929.30 0.2621 0.1944

Earth 81534-07-07 18:00 G 31500929.17 31500929.25 31500929.33 0.2625 0.1965 *

Saturn 81538-01-08 16:34 G 31502210.06 31502210.19 31502210.33 0.0295 0.0190

Jupiter 81538-01-10 09:08 G 31502211.73 31502211.88 31502212.02 0.0526 0.0244

Saturn 81538-04-07 14:39 G 31502298.94 31502299.11 31502299.29 0.0295 0.0007

Saturn 81538-07-05 12:00 G 31502387.88 31502388.00 31502388.14 0.0295 0.0181

Earth 81538-12-30 11:17 G 31502565.90 31502565.97 31502566.03 0.2708 0.2385

Moon 81538-12-30 12:29 G 31502565.95 31502566.02 31502566.09 0.2708 0.2289 *

Mars 81540-04-10 14:53 G 31503033.01 31503033.12 31503033.23 0.1651 0.0529

Mars 81541-02-19 18:29 G 31503348.12 31503348.27 31503348.42 0.1877 0.0658

Earth 81541-06-30 11:46 G 31503478.90 31503478.99 31503479.07 0.2624 0.1797

Moon 81541-06-30 12:29 G 31503478.93 31503479.02 31503479.11 0.2622 0.1718 *

Mars 81542-03-16 20:39 G 31503738.29 31503738.36 31503738.42 0.1670 0.1366

Jupiter 81543-06-01 10:48 G 31504179.87 31504179.95 31504180.02 0.0504 0.0409

Jupiter 81543-08-29 17:46 G 31504269.13 31504269.24 31504269.36 0.0501 0.0257

Mars 81549-09-01 01:56 G 31506463.49 31506463.58 31506463.68 0.1647 0.0957

Jupiter 81549-10-29 07:41 G 31506521.66 31506521.82 31506521.99 0.0525 0.0013

Mars 81551-08-07 06:58 G 31507168.69 31507168.79 31507168.89 0.1665 0.0889

Earth 81552-01-02 12:29 G 31507316.89 31507317.02 31507317.16 0.2708 0.0377

Moon 81552-01-02 13:41 G 31507316.93 31507317.07 31507317.21 0.2705 0.0275 *

Saturn 81552-10-22 03:08 G 31507610.53 31507610.63 31507610.74 0.0265 0.0176

Saturn 81553-01-18 14:10 G 31507698.96 31507699.09 31507699.23 0.0265 0.0072

Saturn 81553-04-17 01:27 G 31507787.43 31507787.56 31507787.70 0.0265 0.0038

Saturn 81553-07-14 12:58 G 31507875.92 31507876.04 31507876.16 0.0265 0.0146

Saturn 81553-10-11 00:29 G 31507964.49 31507964.52 31507964.56 0.0266 0.0257

Earth 81554-07-03 07:27 G 31508229.69 31508229.81 31508229.92 0.2624 0.0494

Moon 81554-07-03 07:41 G 31508229.70 31508229.82 31508229.94 0.2618 0.0478 *

Jupiter 81555-06-17 21:36 G 31508579.26 31508579.40 31508579.53 0.0502 0.0088

Uranus 81555-12-10 01:56 G 31508754.51 31508754.58 31508754.65 0.0144 0.0124

Uranus 81556-03-07 05:46 G 31508842.65 31508842.74 31508842.85 0.0144 0.0102

Uranus 81556-06-03 10:05 G 31508930.81 31508930.92 31508931.05 0.0144 0.0079

Uranus 81556-08-30 14:24 G 31509018.97 31509019.10 31509019.24 0.0144 0.0055

Uranus 81556-11-26 18:44 G 31509107.14 31509107.28 31509107.42 0.0144 0.0032

Uranus 81557-02-22 23:03 G 31509195.32 31509195.46 31509195.61 0.0144 0.0009

Uranus 81557-05-22 03:22 G 31509283.50 31509283.64 31509283.79 0.0144 0.0015

Uranus 81557-08-18 07:56 G 31509371.69 31509371.83 31509371.96 0.0144 0.0039

Uranus 81557-11-14 12:15 G 31509459.88 31509460.01 31509460.14 0.0144 0.0063

Uranus 81558-02-10 16:34 G 31509548.08 31509548.19 31509548.31 0.0144 0.0087

Uranus 81558-05-09 21:08 G 31509636.29 31509636.38 31509636.47 0.0144 0.0111

Uranus 81558-08-06 01:27 G 31509724.52 31509724.56 31509724.61 0.0144 0.0135

Mars 81559-01-22 12:58 G 31509893.98 31509894.04 31509894.10 0.1643 0.1382

Mars 81560-12-27 17:32 G 31510599.12 31510599.23 31510599.35 0.1660 0.0424

Jupiter 81561-08-17 05:03 G 31510831.57 31510831.71 31510831.87 0.0524 0.0248

Mars 81561-11-09 02:39 G 31510915.55 31510915.61 31510915.66 0.1863 0.1739

Venus 81563-01-25 18:15 G 31511358.19 31511358.26 31511358.34 0.3734 0.3120

Venus 81564-08-10 09:51 G 31511920.82 31511920.91 31511921.01 0.3637 0.1485

Moon 81565-01-04 13:41 G 31512067.96 31512068.07 31512068.18 0.2701 0.1625

Earth 81565-01-04 13:41 G 31512067.96 31512068.07 31512068.18 0.2708 0.1569 *

Neptune 81565-10-25 06:58 G 31512361.76 31512361.79 31512361.84 0.0088 0.0084

Neptune 81566-01-21 08:53 G 31512449.80 31512449.87 31512449.94 0.0088 0.0076

Neptune 81566-04-19 10:05 G 31512537.85 31512537.92 31512538.02 0.0088 0.0069

Neptune 81566-07-16 11:46 G 31512625.90 31512625.99 31512626.10 0.0088 0.0062

Neptune 81566-10-12 13:27 G 31512713.95 31512714.06 31512714.18 0.0088 0.0054

Neptune 81567-01-08 14:53 G 31512802.01 31512802.12 31512802.25 0.0088 0.0047

Jupiter 81567-04-06 01:27 G 31512889.43 31512889.56 31512889.70 0.0503 0.0075

Neptune 81567-04-06 16:48 G 31512890.07 31512890.20 31512890.33 0.0088 0.0039

Saturn 81567-05-28 17:32 G 31512942.12 31512942.23 31512942.34 0.0296 0.0230

Neptune 81567-07-03 18:15 G 31512978.13 31512978.26 31512978.40 0.0088 0.0032

Moon 81567-07-06 02:39 G 31512980.50 31512980.61 31512980.73 0.2619 0.0850

Earth 81567-07-06 03:08 G 31512980.52 31512980.63 31512980.75 0.2624 0.0857 *

Saturn 81567-08-25 15:36 G 31513030.98 31513031.15 31513031.33 0.0296 0.0042

Neptune 81567-09-29 19:56 G 31513066.20 31513066.33 31513066.47 0.0088 0.0024

Saturn 81567-11-22 13:27 G 31513119.91 31513120.06 31513120.21 0.0295 0.0143

Neptune 81567-12-26 21:36 G 31513154.26 31513154.40 31513154.55 0.0088 0.0016

Neptune 81568-03-23 23:17 G 31513242.33 31513242.47 31513242.62 0.0088 0.0009

Neptune 81568-06-20 00:58 G 31513330.39 31513330.54 31513330.69 0.0088 0.0001

Venus 81568-08-10 22:05 G 31513382.35 31513382.42 31513382.49 0.3733 0.3156

Neptune 81568-09-16 02:39 G 31513418.46 31513418.61 31513418.75 0.0088 0.0007

Neptune 81568-12-13 04:20 G 31513506.54 31513506.68 31513506.82 0.0088 0.0014

Neptune 81569-03-11 06:00 G 31513594.61 31513594.75 31513594.89 0.0088 0.0022

Neptune 81569-06-07 07:41 G 31513682.68 31513682.82 31513682.96 0.0088 0.0030

Neptune 81569-09-03 09:08 G 31513770.76 31513770.88 31513771.02 0.0088 0.0038

Neptune 81569-11-30 10:48 G 31513858.84 31513858.95 31513859.08 0.0088 0.0046

Venus 81570-02-24 02:10 G 31513944.49 31513944.59 31513944.70 0.3638 0.1076

Neptune 81570-02-26 12:44 G 31513946.92 31513947.03 31513947.15 0.0088 0.0053

Mars 81570-05-20 04:05 G 31514029.56 31514029.67 31514029.79 0.1656 0.0064

Neptune 81570-05-25 14:24 G 31514035.00 31514035.10 31514035.21 0.0088 0.0061

Neptune 81570-08-21 15:51 G 31514123.08 31514123.16 31514123.26 0.0088 0.0069

Neptune 81570-11-17 17:32 G 31514211.18 31514211.23 31514211.31 0.0088 0.0077

Neptune 81571-02-13 19:12 G 31514299.28 31514299.30 31514299.35 0.0088 0.0085

Mars 81571-03-31 23:17 G 31514345.32 31514345.47 31514345.62 0.1870 0.0620

Jupiter 81573-06-05 03:08 G 31515141.58 31515141.63 31515141.69 0.0523 0.0494

Jupiter 81573-09-03 07:27 G 31515231.74 31515231.81 31515231.89 0.0526 0.0466

Jupiter 81579-01-23 05:32 G 31517199.62 31517199.73 31517199.86 0.0503 0.0234

Jupiter 81579-04-22 12:58 G 31517288.98 31517289.04 31517289.11 0.0501 0.0438

Mars 81579-10-10 14:53 G 31517460.01 31517460.12 31517460.24 0.1651 0.0478

Moon 81580-07-07 22:20 G 31517731.36 31517731.43 31517731.51 0.2622 0.2071

Earth 81580-07-07 23:17 G 31517731.40 31517731.47 31517731.53 0.2625 0.2242 *

Mars 81580-08-20 18:58 G 31517775.13 31517775.29 31517775.44 0.1877 0.0575

Mars 81581-09-14 20:39 G 31518165.30 31518165.36 31518165.42 0.1670 0.1419

Saturn 81582-03-11 06:00 G 31518342.67 31518342.75 31518342.84 0.0265 0.0204

Saturn 81582-06-07 17:03 G 31518431.08 31518431.21 31518431.34 0.0265 0.0099

Saturn 81582-09-04 04:05 G 31518519.53 31518519.67 31518519.81 0.0265 0.0008

Saturn 81582-12-01 15:22 G 31518608.02 31518608.14 31518608.27 0.0265 0.0116

Saturn 81583-02-28 02:53 G 31518696.55 31518696.62 31518696.70 0.0265 0.0226

Earth 81584-12-30 17:03 G 31519368.12 31519368.21 31519368.30 0.2708 0.2006

Moon 81584-12-30 18:15 G 31519368.16 31519368.26 31519368.37 0.2707 0.1780 *

Jupiter 81585-06-22 06:15 G 31519541.61 31519541.76 31519541.91 0.0526 0.0233

Earth 81587-07-01 16:48 G 31520281.10 31520281.20 31520281.29 0.2625 0.1544

Moon 81587-07-01 17:32 G 31520281.12 31520281.23 31520281.33 0.2620 0.1434 *

Mars 81589-03-02 01:56 G 31520890.48 31520890.58 31520890.68 0.1647 0.0911

Mars 81590-01-10 14:10 G 31521205.05 31521205.09 31521205.13 0.1884 0.1808

Jupiter 81590-11-11 09:36 G 31521509.82 31521509.90 31521509.99 0.0504 0.0394

Mars 81591-02-05 06:58 G 31521595.69 31521595.79 31521595.89 0.1665 0.0938

Jupiter 81591-02-08 16:48 G 31521599.09 31521599.20 31521599.32 0.0501 0.0273

Saturn 81597-01-11 13:12 G 31523762.89 31523763.05 31523763.21 0.0295 0.0108

Jupiter 81597-04-10 05:32 G 31523851.56 31523851.73 31523851.90 0.0525 0.0008

Saturn 81597-04-10 11:03 G 31523851.79 31523851.96 31523852.13 0.0295 0.0078 *

Saturn 81597-07-08 08:10 G 31523940.77 31523940.84 31523940.93 0.0295 0.0259

Pluto 81597-11-08 21:51 G 31524064.39 31524064.41 31524064.47 0.0082 0.0078

Earth 81598-01-02 18:29 G 31524119.13 31524119.27 31524119.40 0.2708 0.0086

Moon 81598-01-02 19:12 G 31524119.16 31524119.30 31524119.44 0.2704 0.0095 *

Pluto 81598-02-04 23:32 G 31524152.39 31524152.48 31524152.60 0.0081 0.0057

Uranus 81598-03-27 12:29 G 31524202.93 31524203.02 31524203.10 0.0134 0.0118

Pluto 81598-05-04 00:58 G 31524240.42 31524240.54 31524240.69 0.0081 0.0037

Uranus 81598-06-23 18:00 G 31524291.14 31524291.25 31524291.39 0.0134 0.0094

Mars 81598-07-23 12:58 G 31524320.97 31524321.04 31524321.10 0.1643 0.1334

Pluto 81598-07-31 02:39 G 31524328.47 31524328.61 31524328.76 0.0081 0.0016

Uranus 81598-09-20 00:00 G 31524379.36 31524379.50 31524379.66 0.0134 0.0070

Pluto 81598-10-27 04:20 G 31524416.53 31524416.68 31524416.83 0.0081 0.0005

Uranus 81598-12-17 06:00 G 31524467.58 31524467.75 31524467.91 0.0134 0.0046

Pluto 81599-01-23 05:46 G 31524504.60 31524504.74 31524504.88 0.0081 0.0026

Uranus 81599-03-15 11:46 G 31524555.82 31524555.99 31524556.16 0.0134 0.0023

Pluto 81599-04-21 06:58 G 31524592.68 31524592.79 31524592.93 0.0081 0.0047

Uranus 81599-06-11 17:32 G 31524644.05 31524644.23 31524644.40 0.0134 0.0002

Pluto 81599-07-18 08:39 G 31524680.78 31524680.86 31524680.95 0.0081 0.0067

Uranus 81599-09-07 23:03 G 31524732.29 31524732.46 31524732.63 0.0134 0.0024

Uranus 81599-12-05 04:48 G 31524820.54 31524820.70 31524820.86 0.0134 0.0047

Uranus 81600-03-02 10:20 G 31524908.79 31524908.93 31524909.08 0.0134 0.0069

Uranus 81600-05-29 15:36 G 31524997.04 31524997.15 31524997.29 0.0134 0.0093

Mars 81600-06-27 17:32 G 31525026.11 31525026.23 31525026.34 0.1660 0.0472

Moon 81600-07-03 12:44 G 31525031.90 31525032.03 31525032.15 0.2618 0.0195

Earth 81600-07-03 12:29 G 31525031.90 31525032.02 31525032.14 0.2624 0.0229 *

Uranus 81600-08-25 21:22 G 31525085.31 31525085.39 31525085.48 0.0134 0.0115

Mars 81601-05-10 03:22 G 31525342.62 31525342.64 31525342.66 0.1864 0.1838

Jupiter 81602-11-27 19:56 G 31525909.20 31525909.33 31525909.47 0.0502 0.0092

Jupiter 81609-01-27 04:05 G 31528161.52 31528161.67 31528161.82 0.0524 0.0229

Mars 81609-11-18 04:05 G 31528456.55 31528456.67 31528456.79 0.1656 0.0049

Mars 81610-09-30 00:00 G 31528772.35 31528772.50 31528772.65 0.1870 0.0718

Moon 81611-01-05 19:27 G 31528870.21 31528870.31 31528870.40 0.2701 0.1890

Earth 81611-01-05 19:27 G 31528870.21 31528870.31 31528870.40 0.2708 0.1930 *

Saturn 81611-07-29 08:53 G 31529074.81 31529074.87 31529074.94 0.0265 0.0230

Saturn 81611-10-25 19:56 G 31529163.21 31529163.33 31529163.45 0.0265 0.0126

Saturn 81612-01-22 06:58 G 31529251.65 31529251.79 31529251.93 0.0265 0.0021

Saturn 81612-04-19 18:15 G 31529340.13 31529340.26 31529340.40 0.0266 0.0089

Saturn 81612-07-17 05:46 G 31529428.65 31529428.74 31529428.84 0.0266 0.0199

Moon 81613-07-06 07:41 G 31529782.71 31529782.82 31529782.93 0.2619 0.1025

Earth 81613-07-06 08:10 G 31529782.73 31529782.84 31529782.95 0.2624 0.1131 *

Jupiter 81614-09-15 23:32 G 31530219.35 31530219.48 31530219.62 0.0503 0.0079

Venus 81615-09-01 15:22 G 31530570.08 31530570.14 31530570.19 0.3637 0.3043

Mars 81619-04-10 14:53 G 31531887.01 31531887.12 31531887.24 0.1651 0.0427

Venus 81619-09-01 18:58 G 31532031.15 31532031.29 31532031.43 0.3734 0.0946

Mars 81620-02-19 19:41 G 31532202.17 31532202.32 31532202.48 0.1877 0.0465

Earth 81620-06-29 02:24 G 31532332.58 31532332.60 31532332.62 0.2625 0.2571

Moon 81620-06-29 03:08 G 31532332.59 31532332.63 31532332.68 0.2625 0.2415 *

Jupiter 81620-11-15 01:12 G 31532471.50 31532471.55 31532471.61 0.0523 0.0488

Jupiter 81621-02-13 05:32 G 31532561.67 31532561.73 31532561.81 0.0526 0.0472

Mars 81621-03-15 20:39 G 31532592.30 31532592.36 31532592.41 0.1670 0.1469

Venus 81621-03-17 07:27 G 31532593.71 31532593.81 31532593.92 0.3638 0.0545

Saturn 81626-05-31 14:39 G 31534494.96 31534495.11 31534495.27 0.0296 0.0142

Jupiter 81626-07-05 03:36 G 31534529.53 31534529.65 31534529.77 0.0504 0.0240

Moon 81626-07-09 03:22 G 31534533.61 31534533.64 31534533.68 0.2623 0.2479

Earth 81626-07-09 04:20 G 31534533.65 31534533.68 31534533.71 0.2625 0.2514 *

Saturn 81626-08-28 12:44 G 31534583.86 31534584.03 31534584.20 0.0295 0.0045

Venus 81626-09-30 23:46 G 31534617.41 31534617.49 31534617.58 0.3639 0.2046

Jupiter 81626-10-02 11:03 G 31534618.89 31534618.96 31534619.03 0.0501 0.0431

Saturn 81626-11-25 10:05 G 31534672.82 31534672.92 31534673.03 0.0295 0.0227

Mars 81628-08-31 01:56 G 31535317.48 31535317.58 31535317.68 0.1647 0.0859

Mars 81629-07-11 14:53 G 31535632.05 31535632.12 31535632.19 0.1883 0.1697

Mars 81630-08-06 06:58 G 31536022.69 31536022.79 31536022.88 0.1665 0.0990

Earth 81630-12-31 23:03 G 31536170.35 31536170.46 31536170.57 0.2708 0.1624

Moon 81631-01-01 00:15 G 31536170.40 31536170.51 31536170.62 0.2707 0.1554 *

Jupiter 81632-12-02 04:05 G 31536871.52 31536871.67 31536871.82 0.0525 0.0231

Earth 81633-07-01 21:51 G 31537083.31 31537083.41 31537083.52 0.2624 0.1282

Moon 81633-07-01 22:34 G 31537083.33 31537083.44 31537083.54 0.2619 0.1258 *

Mars 81638-01-21 12:58 G 31538747.96 31538748.04 31538748.11 0.1643 0.1285

Jupiter 81638-04-23 07:41 G 31538839.74 31538839.82 31538839.90 0.0504 0.0399

Jupiter 81638-07-21 14:53 G 31538929.01 31538929.12 31538929.24 0.0501 0.0268

Uranus 81639-10-03 04:20 G 31539367.67 31539367.68 31539367.70 0.0144 0.0143

Mars 81639-12-27 17:32 G 31539453.12 31539453.23 31539453.34 0.1660 0.0523

Uranus 81639-12-30 08:39 G 31539455.78 31539455.86 31539455.93 0.0144 0.0120

Uranus 81640-03-27 12:29 G 31539543.93 31539544.02 31539544.13 0.0144 0.0098

Uranus 81640-06-23 16:48 G 31539632.09 31539632.20 31539632.33 0.0144 0.0075

Uranus 81640-09-19 21:08 G 31539720.25 31539720.38 31539720.52 0.0144 0.0051

Saturn 81640-12-15 12:00 G 31539806.97 31539807.00 31539807.04 0.0265 0.0255

Uranus 81640-12-17 01:27 G 31539808.42 31539808.56 31539808.70 0.0144 0.0028

Saturn 81641-03-13 22:48 G 31539895.34 31539895.45 31539895.57 0.0265 0.0151

Uranus 81641-03-15 05:46 G 31539896.60 31539896.74 31539896.88 0.0144 0.0005

Saturn 81641-06-10 10:05 G 31539983.78 31539983.92 31539984.05 0.0265 0.0046

Uranus 81641-06-11 10:05 G 31539984.78 31539984.92 31539985.06 0.0144 0.0019

Saturn 81641-09-06 21:08 G 31540072.25 31540072.38 31540072.52 0.0265 0.0063

Uranus 81641-09-07 14:24 G 31540072.97 31540073.10 31540073.24 0.0144 0.0043

Saturn 81641-12-04 08:39 G 31540160.75 31540160.86 31540160.97 0.0265 0.0172

Uranus 81641-12-04 18:44 G 31540161.16 31540161.28 31540161.41 0.0144 0.0067

Uranus 81642-03-02 23:17 G 31540249.36 31540249.47 31540249.58 0.0144 0.0091

Uranus 81642-05-30 03:36 G 31540337.57 31540337.65 31540337.74 0.0144 0.0115

Uranus 81642-08-26 07:56 G 31540425.81 31540425.83 31540425.88 0.0144 0.0140

Earth 81644-01-04 00:15 G 31540921.37 31540921.51 31540921.64 0.2708 0.0368

Moon 81644-01-04 00:44 G 31540921.40 31540921.53 31540921.67 0.2702 0.0493 *

Jupiter 81644-09-20 02:24 G 31541181.43 31541181.60 31541181.77 0.0525 0.0012

Moon 81646-07-04 17:32 G 31541834.11 31541834.23 31541834.35 0.2618 0.0054

Earth 81646-07-04 17:32 G 31541834.11 31541834.23 31541834.35 0.2624 0.0036 *

Neptune 81648-07-28 19:27 G 31542589.26 31542589.31 31542589.38 0.0090 0.0084

Neptune 81648-10-24 22:20 G 31542677.34 31542677.43 31542677.54 0.0090 0.0074

Neptune 81649-01-21 01:12 G 31542765.44 31542765.55 31542765.68 0.0090 0.0064

Neptune 81649-04-19 04:05 G 31542853.54 31542853.67 31542853.82 0.0090 0.0054

Mars 81649-05-19 04:05 G 31542883.55 31542883.67 31542883.79 0.1656 0.0076

Neptune 81649-07-16 06:58 G 31542941.65 31542941.79 31542941.95 0.0090 0.0044

Neptune 81649-10-12 10:05 G 31543029.76 31543029.92 31543030.08 0.0090 0.0034

Neptune 81650-01-08 12:44 G 31543117.87 31543118.03 31543118.20 0.0090 0.0024

Mars 81650-03-31 00:29 G 31543199.38 31543199.52 31543199.67 0.1870 0.0806

Neptune 81650-04-06 15:36 G 31543205.98 31543206.15 31543206.32 0.0090 0.0014

Jupiter 81650-05-09 18:44 G 31543239.15 31543239.28 31543239.42 0.0502 0.0104

Neptune 81650-07-03 18:29 G 31543294.09 31543294.27 31543294.44 0.0090 0.0005

Neptune 81650-09-29 21:08 G 31543382.21 31543382.38 31543382.56 0.0090 0.0005

Neptune 81650-12-27 00:00 G 31543470.33 31543470.50 31543470.67 0.0090 0.0015

Neptune 81651-03-25 02:39 G 31543558.45 31543558.61 31543558.78 0.0090 0.0024

Neptune 81651-06-21 05:17 G 31543646.57 31543646.72 31543646.89 0.0090 0.0034

Neptune 81651-09-17 07:56 G 31543734.69 31543734.83 31543734.99 0.0090 0.0044

Neptune 81651-12-14 10:48 G 31543822.82 31543822.95 31543823.09 0.0090 0.0053

Neptune 81652-03-11 13:12 G 31543910.95 31543911.05 31543911.19 0.0090 0.0063

Neptune 81652-06-07 16:05 G 31543999.08 31543999.17 31543999.28 0.0090 0.0072

Neptune 81652-09-03 18:29 G 31544087.22 31544087.27 31544087.36 0.0090 0.0082

Saturn 81655-10-18 12:29 G 31545226.90 31545227.02 31545227.15 0.0295 0.0206

Saturn 81656-01-15 10:48 G 31545315.77 31545315.95 31545316.12 0.0295 0.0019

Saturn 81656-04-13 08:10 G 31545404.71 31545404.84 31545404.99 0.0295 0.0166

Jupiter 81656-07-09 01:27 G 31545491.41 31545491.56 31545491.71 0.0524 0.0238

Moon 81657-01-06 00:58 G 31545672.47 31545672.54 31545672.61 0.2701 0.2285

Earth 81657-01-06 00:58 G 31545672.47 31545672.54 31545672.61 0.2708 0.2285 *

Mars 81658-10-09 14:53 G 31546314.00 31546314.12 31546314.23 0.1651 0.0380

Moon 81659-07-07 12:44 G 31546584.93 31546585.03 31546585.14 0.2619 0.1350

Earth 81659-07-07 13:27 G 31546584.95 31546585.06 31546585.16 0.2625 0.1396 *

Mars 81659-08-20 20:39 G 31546629.20 31546629.36 31546629.52 0.1877 0.0354

Mars 81660-09-13 20:39 G 31547019.31 31547019.36 31547019.40 0.1670 0.1516

Jupiter 81662-02-25 22:05 G 31547549.28 31547549.42 31547549.55 0.0502 0.0076

Earth 81666-06-30 07:27 G 31549134.76 31549134.81 31549134.86 0.2624 0.2319

Moon 81666-06-30 08:10 G 31549134.79 31549134.84 31549134.90 0.2623 0.2297 *

Mars 81668-03-01 01:56 G 31549744.48 31549744.58 31549744.68 0.1647 0.0810

Jupiter 81668-04-26 23:46 G 31549801.43 31549801.49 31549801.56 0.0523 0.0477

Jupiter 81668-07-26 04:20 G 31549891.62 31549891.68 31549891.74 0.0526 0.0486

Mars 81669-01-09 15:36 G 31550059.07 31550059.15 31550059.24 0.1883 0.1592

Mars 81670-02-04 06:58 G 31550449.69 31550449.79 31550449.88 0.1665 0.1038

Saturn 81670-08-01 01:41 G 31550627.47 31550627.57 31550627.68 0.0265 0.0178

Saturn 81670-10-28 12:58 G 31550715.90 31550716.04 31550716.17 0.0265 0.0073

Saturn 81671-01-25 00:00 G 31550804.36 31550804.50 31550804.64 0.0266 0.0035

Saturn 81671-04-23 11:17 G 31550892.86 31550892.97 31550893.10 0.0266 0.0145

Saturn 81671-07-20 22:48 G 31550981.42 31550981.45 31550981.50 0.0266 0.0256

Venus 81672-04-07 12:44 G 31551242.95 31551243.03 31551243.12 0.3637 0.2126

Jupiter 81673-12-15 01:41 G 31551859.45 31551859.57 31551859.69 0.0503 0.0244

Jupiter 81674-03-14 09:08 G 31551948.81 31551948.88 31551948.95 0.0501 0.0425

Venus 81676-04-07 19:41 G 31552704.18 31552704.32 31552704.45 0.3734 0.1209

Earth 81677-01-01 04:48 G 31552972.58 31552972.70 31552972.82 0.2708 0.1251

Moon 81677-01-01 06:00 G 31552972.62 31552972.75 31552972.88 0.2707 0.1020 *

Mars 81677-07-22 12:58 G 31553174.96 31553175.04 31553175.11 0.1643 0.1234

Venus 81677-10-22 05:03 G 31553266.60 31553266.71 31553266.82 0.3638 0.0418

Mars 81679-06-27 17:32 G 31553880.12 31553880.23 31553880.34 0.1660 0.0574

Earth 81679-07-03 02:53 G 31553885.51 31553885.62 31553885.73 0.2625 0.1029

Moon 81679-07-03 03:36 G 31553885.53 31553885.65 31553885.76 0.2620 0.0900 *

Jupiter 81680-05-14 01:56 G 31554201.43 31554201.58 31554201.73 0.0525 0.0233

Uranus 81682-04-16 18:58 G 31554904.21 31554904.29 31554904.40 0.0134 0.0112

Uranus 81682-07-14 00:58 G 31554992.41 31554992.54 31554992.68 0.0134 0.0088

Uranus 81682-10-10 06:44 G 31555080.64 31555080.78 31555080.94 0.0134 0.0064

Uranus 81683-01-06 12:44 G 31555168.87 31555169.03 31555169.20 0.0134 0.0040

Uranus 81683-04-04 18:29 G 31555257.10 31555257.27 31555257.45 0.0134 0.0017

Venus 81683-05-07 21:22 G 31555290.34 31555290.39 31555290.45 0.3638 0.3010

Uranus 81683-07-02 00:15 G 31555345.34 31555345.51 31555345.69 0.0134 0.0007

Uranus 81683-09-28 06:00 G 31555433.58 31555433.75 31555433.92 0.0134 0.0030

Uranus 81683-12-25 11:32 G 31555521.83 31555521.98 31555522.14 0.0134 0.0053

Uranus 81684-03-22 17:03 G 31555610.08 31555610.21 31555610.36 0.0134 0.0076

Uranus 81684-06-18 22:34 G 31555698.33 31555698.44 31555698.56 0.0134 0.0098

Uranus 81684-09-15 04:05 G 31555786.61 31555786.67 31555786.75 0.0134 0.0121

Saturn 81685-03-06 14:10 G 31555959.00 31555959.09 31555959.20 0.0296 0.0239

Saturn 81685-06-03 12:44 G 31556047.86 31556048.03 31556048.20 0.0295 0.0049

Saturn 81685-08-31 10:20 G 31556136.78 31556136.93 31556137.08 0.0295 0.0136

Jupiter 81685-10-03 05:46 G 31556169.66 31556169.74 31556169.81 0.0504 0.0407

Jupiter 81685-12-31 12:44 G 31556258.92 31556259.03 31556259.15 0.0502 0.0260

Mars 81688-11-17 04:05 G 31557310.55 31557310.67 31557310.79 0.1656 0.0119

Mars 81689-09-29 01:27 G 31557626.42 31557626.56 31557626.70 0.1870 0.0910

Earth 81690-01-04 06:00 G 31557723.62 31557723.75 31557723.88 0.2708 0.0740

Moon 81690-01-04 06:29 G 31557723.64 31557723.77 31557723.91 0.2702 0.0728 *

Jupiter 81692-03-02 00:00 G 31558511.34 31558511.50 31558511.67 0.0524 0.0020

Moon 81692-07-04 22:34 G 31558636.31 31558636.44 31558636.56 0.2618 0.0255

Earth 81692-07-04 22:34 G 31558636.32 31558636.44 31558636.56 0.2625 0.0312 *

Jupiter 81697-10-19 16:48 G 31560569.06 31560569.20 31560569.33 0.0502 0.0097

Mars 81698-04-09 14:53 G 31560741.00 31560741.12 31560741.24 0.1651 0.0327

Mars 81699-02-18 21:08 G 31561056.22 31561056.38 31561056.54 0.1877 0.0267

Saturn 81699-12-19 05:03 G 31561359.63 31561359.71 31561359.80 0.0265 0.0201

Mars 81700-03-15 20:39 G 31561446.32 31561446.36 31561446.40 0.1670 0.1567

Saturn 81700-03-17 16:05 G 31561448.04 31561448.17 31561448.30 0.0265 0.0096

Saturn 81700-06-14 03:08 G 31561536.49 31561536.63 31561536.77 0.0265 0.0013

Saturn 81700-09-10 14:24 G 31561624.98 31561625.10 31561625.23 0.0265 0.0120

Saturn 81700-12-08 01:56 G 31561713.52 31561713.58 31561713.66 0.0266 0.0230

Moon 81703-01-08 06:29 G 31562474.74 31562474.77 31562474.80 0.2702 0.2622

Earth 81703-01-08 06:44 G 31562474.76 31562474.78 31562474.81 0.2708 0.2645 *

Jupiter 81703-12-20 22:20 G 31562821.28 31562821.43 31562821.57 0.0524 0.0257

Moon 81705-07-08 18:00 G 31563387.15 31563387.25 31563387.34 0.2620 0.1592

Earth 81705-07-08 18:29 G 31563387.18 31563387.27 31563387.37 0.2625 0.1670 *

Mars 81707-09-01 01:56 G 31564171.47 31564171.58 31564171.68 0.1647 0.0765

Mars 81708-07-11 16:20 G 31564486.09 31564486.18 31564486.28 0.1884 0.1493

Mars 81709-08-06 06:58 G 31564876.70 31564876.79 31564876.88 0.1665 0.1089

Jupiter 81709-08-08 20:39 G 31564879.23 31564879.36 31564879.50 0.0503 0.0067

Moon 81709-12-31 10:20 G 31565023.92 31565023.93 31565023.94 0.2709 0.2689

Earth 81712-07-01 12:29 G 31565936.95 31565937.02 31565937.09 0.2624 0.2067

Moon 81712-07-01 13:12 G 31565936.97 31565937.05 31565937.14 0.2622 0.1909 *

Saturn 81714-10-22 11:03 G 31566779.80 31566779.96 31566780.12 0.0295 0.0108

Saturn 81715-01-19 08:53 G 31566868.71 31566868.87 31566869.04 0.0295 0.0079

Saturn 81715-04-18 06:15 G 31566957.69 31566957.76 31566957.84 0.0294 0.0259

Jupiter 81715-10-08 20:53 G 31567131.32 31567131.37 31567131.43 0.0523 0.0490

Jupiter 81716-01-07 01:27 G 31567221.49 31567221.56 31567221.63 0.0526 0.0475

Mars 81717-01-21 12:44 G 31567601.95 31567602.03 31567602.11 0.1643 0.1187

Mars 81718-12-27 17:32 G 31568307.11 31568307.23 31568307.34 0.1660 0.0621

Jupiter 81721-05-28 00:00 G 31569189.38 31569189.50 31569189.62 0.0503 0.0243

Jupiter 81721-08-25 07:12 G 31569278.73 31569278.80 31569278.88 0.0500 0.0425

Earth 81723-01-03 10:34 G 31569774.81 31569774.94 31569775.07 0.2708 0.0870

Moon 81723-01-03 11:46 G 31569774.86 31569774.99 31569775.12 0.2705 0.0835 *

Uranus 81723-10-24 11:17 G 31570068.93 31570068.97 31570069.01 0.0144 0.0138

Uranus 81724-01-20 15:08 G 31570157.06 31570157.13 31570157.23 0.0144 0.0116

Uranus 81724-04-17 19:27 G 31570245.21 31570245.31 31570245.43 0.0144 0.0093

Uranus 81724-07-14 23:46 G 31570333.37 31570333.49 31570333.62 0.0144 0.0070

Uranus 81724-10-11 04:05 G 31570421.54 31570421.67 31570421.80 0.0144 0.0046

Uranus 81725-01-07 08:24 G 31570509.71 31570509.85 31570509.99 0.0144 0.0023

Uranus 81725-04-05 12:44 G 31570597.88 31570598.03 31570598.17 0.0144 0.0003

Uranus 81725-07-02 17:03 G 31570686.07 31570686.21 31570686.35 0.0144 0.0024

Earth 81725-07-04 07:56 G 31570687.72 31570687.83 31570687.95 0.2624 0.0771

Moon 81725-07-04 08:24 G 31570687.74 31570687.85 31570687.97 0.2619 0.0778 *

Uranus 81725-09-28 21:22 G 31570774.25 31570774.39 31570774.52 0.0144 0.0048

Uranus 81725-12-26 01:41 G 31570862.45 31570862.57 31570862.70 0.0144 0.0072

Uranus 81726-03-24 06:00 G 31570950.65 31570950.75 31570950.86 0.0144 0.0096

Mars 81726-06-14 00:00 G 31571032.48 31571032.50 31571032.52 0.1639 0.1598

Uranus 81726-06-20 10:20 G 31571038.86 31571038.93 31571039.02 0.0144 0.0120

Venus 81727-04-30 16:05 G 31571353.09 31571353.17 31571353.26 0.3735 0.3020

Jupiter 81727-10-26 00:15 G 31571531.37 31571531.51 31571531.66 0.0526 0.0242

Mars 81728-05-19 04:05 G 31571737.55 31571737.67 31571737.79 0.1656 0.0168

Venus 81728-11-13 10:20 G 31571915.83 31571915.93 31571916.03 0.3637 0.1185

Mars 81729-03-31 02:10 G 31572053.46 31572053.59 31572053.72 0.1870 0.1011

Saturn 81729-05-08 07:41 G 31572091.76 31572091.82 31572091.89 0.0265 0.0230

Saturn 81729-08-04 18:44 G 31572180.16 31572180.28 31572180.41 0.0266 0.0125

Saturn 81729-11-01 06:00 G 31572268.61 31572268.75 31572268.89 0.0266 0.0019

Saturn 81730-01-28 17:17 G 31572357.09 31572357.22 31572357.35 0.0266 0.0090

Neptune 81730-04-26 05:17 G 31572444.70 31572444.72 31572444.75 0.0088 0.0086

Saturn 81730-04-27 04:34 G 31572445.60 31572445.69 31572445.79 0.0266 0.0201

Neptune 81730-07-23 06:44 G 31572532.73 31572532.78 31572532.85 0.0088 0.0079

Neptune 81730-10-19 08:10 G 31572620.77 31572620.84 31572620.94 0.0088 0.0072

Neptune 81731-01-15 09:51 G 31572708.82 31572708.91 31572709.02 0.0088 0.0064

Neptune 81731-04-13 11:17 G 31572796.88 31572796.97 31572797.10 0.0088 0.0057

Neptune 81731-07-10 13:12 G 31572884.93 31572885.05 31572885.17 0.0088 0.0049

Neptune 81731-10-06 14:39 G 31572972.99 31572973.11 31572973.25 0.0088 0.0042

Neptune 81732-01-02 16:20 G 31573061.05 31573061.18 31573061.32 0.0088 0.0034

Neptune 81732-03-30 18:00 G 31573149.12 31573149.25 31573149.39 0.0088 0.0026

Neptune 81732-06-26 19:41 G 31573237.18 31573237.32 31573237.46 0.0088 0.0019

Neptune 81732-09-22 21:22 G 31573325.25 31573325.39 31573325.53 0.0088 0.0011

Venus 81732-11-13 20:10 G 31573377.28 31573377.34 31573377.40 0.3734 0.3329

Neptune 81732-12-19 23:03 G 31573413.31 31573413.46 31573413.60 0.0088 0.0004

Jupiter 81733-03-16 03:51 G 31573499.58 31573499.66 31573499.74 0.0504 0.0411

Neptune 81733-03-18 00:44 G 31573501.38 31573501.53 31573501.67 0.0088 0.0004

Jupiter 81733-06-13 10:48 G 31573588.83 31573588.95 31573589.07 0.0501 0.0255

Neptune 81733-06-14 02:24 G 31573589.45 31573589.60 31573589.74 0.0088 0.0012

Neptune 81733-09-10 03:51 G 31573677.52 31573677.66 31573677.81 0.0088 0.0020

Neptune 81733-12-07 05:32 G 31573765.60 31573765.73 31573765.87 0.0088 0.0027

Neptune 81734-03-05 07:12 G 31573853.67 31573853.80 31573853.94 0.0088 0.0035

Venus 81734-05-30 02:39 G 31573939.51 31573939.61 31573939.71 0.3638 0.1383

Neptune 81734-06-01 08:53 G 31573941.75 31573941.87 31573942.00 0.0088 0.0043

Neptune 81734-08-28 10:34 G 31574029.83 31574029.94 31574030.07 0.0088 0.0051

Neptune 81734-11-24 12:15 G 31574117.91 31574118.01 31574118.13 0.0088 0.0058

Neptune 81735-02-20 14:10 G 31574205.99 31574206.09 31574206.18 0.0088 0.0066

Neptune 81735-05-19 15:51 G 31574294.08 31574294.16 31574294.24 0.0088 0.0074

Neptune 81735-08-15 17:17 G 31574382.18 31574382.22 31574382.28 0.0088 0.0082

Earth 81736-01-06 11:46 G 31574525.87 31574525.99 31574526.12 0.2708 0.1100

Moon 81736-01-06 12:15 G 31574525.89 31574526.01 31574526.13 0.2701 0.1230 *

Mars 81737-10-09 14:53 G 31575168.00 31575168.12 31575168.24 0.1651 0.0278

Moon 81738-07-07 03:22 G 31575438.53 31575438.64 31575438.76 0.2618 0.0603

Earth 81738-07-07 03:51 G 31575438.54 31575438.66 31575438.77 0.2624 0.0577 *

Mars 81738-08-20 22:05 G 31575483.25 31575483.42 31575483.58 0.1877 0.0167

Jupiter 81739-08-13 21:51 G 31575841.24 31575841.41 31575841.58 0.0524 0.0014

Mars 81739-09-14 20:39 G 31575873.33 31575873.36 31575873.39 0.1670 0.1619

Saturn 81744-03-10 12:44 G 31577511.88 31577512.03 31577512.19 0.0295 0.0141

Saturn 81744-06-07 10:48 G 31577600.78 31577600.95 31577601.12 0.0295 0.0047

Saturn 81744-09-04 08:10 G 31577689.74 31577689.84 31577689.95 0.0295 0.0229

Jupiter 81745-04-01 14:39 G 31577898.97 31577899.11 31577899.24 0.0502 0.0088

Mars 81747-03-02 01:41 G 31578598.47 31578598.57 31578598.68 0.1647 0.0715

Mars 81748-01-10 17:17 G 31578913.11 31578913.22 31578913.33 0.1883 0.1380

Mars 81749-02-04 06:58 G 31579303.70 31579303.79 31579303.87 0.1665 0.1138

Jupiter 81751-06-01 19:56 G 31580151.18 31580151.33 31580151.47 0.0524 0.0261

Moon 81751-07-09 23:03 G 31580189.37 31580189.46 31580189.54 0.2622 0.1824

Earth 81751-07-09 23:46 G 31580189.41 31580189.49 31580189.57 0.2625 0.1944 *

Pluto 81754-10-19 17:32 G 31581387.21 31581387.23 31581387.29 0.0062 0.0061

Pluto 81755-01-15 18:29 G 31581475.19 31581475.27 31581475.39 0.0062 0.0050

Pluto 81755-04-13 19:27 G 31581563.20 31581563.31 31581563.45 0.0062 0.0040

Pluto 81755-07-10 20:24 G 31581651.21 31581651.35 31581651.51 0.0062 0.0029

Pluto 81755-10-06 21:22 G 31581739.24 31581739.39 31581739.56 0.0063 0.0019

Earth 81756-01-01 14:53 G 31581826.08 31581826.12 31581826.17 0.2708 0.2529

Moon 81756-01-01 16:20 G 31581826.12 31581826.18 31581826.24 0.2709 0.2438 *

Pluto 81756-01-02 22:34 G 31581827.27 31581827.44 31581827.61 0.0063 0.0008

Pluto 81756-03-30 23:32 G 31581915.31 31581915.48 31581915.64 0.0063 0.0003

Pluto 81756-06-27 00:15 G 31582003.35 31582003.51 31582003.68 0.0063 0.0013

Mars 81756-07-22 12:44 G 31582028.95 31582029.03 31582029.12 0.1642 0.1138

Pluto 81756-09-23 00:58 G 31582091.40 31582091.54 31582091.71 0.0063 0.0024

Pluto 81756-12-20 02:10 G 31582179.45 31582179.59 31582179.73 0.0063 0.0034

Jupiter 81757-01-18 18:29 G 31582209.14 31582209.27 31582209.41 0.0503 0.0077

Pluto 81757-03-18 02:53 G 31582267.51 31582267.62 31582267.75 0.0063 0.0045

Pluto 81757-06-14 03:36 G 31582355.59 31582355.65 31582355.74 0.0063 0.0056

Mars 81758-06-27 17:32 G 31582734.12 31582734.23 31582734.34 0.1660 0.0672

Earth 81758-07-02 17:32 G 31582739.15 31582739.23 31582739.32 0.2624 0.1815

Moon 81758-07-02 18:29 G 31582739.18 31582739.27 31582739.35 0.2622 0.1782 *

Saturn 81758-09-25 11:17 G 31582823.93 31582823.97 31582824.02 0.0265 0.0251

Saturn 81758-12-22 22:05 G 31582912.31 31582912.42 31582912.54 0.0265 0.0147

Saturn 81759-03-21 09:22 G 31583000.75 31583000.89 31583001.03 0.0265 0.0041

Saturn 81759-06-17 20:24 G 31583089.22 31583089.35 31583089.49 0.0265 0.0068

Saturn 81759-09-14 07:56 G 31583177.73 31583177.83 31583177.94 0.0266 0.0177

Jupiter 81763-03-20 17:46 G 31584461.20 31584461.24 31584461.27 0.0523 0.0509

Jupiter 81763-06-18 22:20 G 31584551.35 31584551.43 31584551.51 0.0526 0.0454

Mars 81765-12-12 23:46 G 31585459.46 31585459.49 31585459.53 0.1638 0.1554

Uranus 81766-02-08 19:41 G 31585517.29 31585517.32 31585517.37 0.0134 0.0130

Uranus 81766-05-08 01:27 G 31585605.47 31585605.56 31585605.68 0.0134 0.0107

Uranus 81766-08-04 07:27 G 31585693.68 31585693.81 31585693.96 0.0134 0.0083

Uranus 81766-10-31 13:27 G 31585781.91 31585782.06 31585782.22 0.0134 0.0059

Uranus 81767-01-27 19:12 G 31585870.14 31585870.30 31585870.47 0.0134 0.0035

Uranus 81767-04-26 00:58 G 31585958.37 31585958.54 31585958.72 0.0134 0.0012

Uranus 81767-07-23 06:44 G 31586046.61 31586046.78 31586046.96 0.0134 0.0012

Uranus 81767-10-19 12:29 G 31586134.85 31586135.02 31586135.19 0.0134 0.0035

Mars 81767-11-18 04:05 G 31586164.55 31586164.67 31586164.79 0.1655 0.0214

Uranus 81768-01-15 18:15 G 31586223.10 31586223.26 31586223.41 0.0134 0.0058

Uranus 81768-04-12 23:46 G 31586311.35 31586311.49 31586311.63 0.0134 0.0081

Uranus 81768-07-10 05:03 G 31586399.61 31586399.71 31586399.83 0.0134 0.0104

Mars 81768-09-29 02:39 G 31586480.48 31586480.61 31586480.74 0.1871 0.1092

Uranus 81768-10-06 10:48 G 31586487.89 31586487.95 31586488.01 0.0134 0.0126

Jupiter 81768-11-06 22:34 G 31586519.32 31586519.44 31586519.56 0.0504 0.0238

Earth 81769-01-03 16:34 G 31586577.05 31586577.19 31586577.32 0.2708 0.0497

Moon 81769-01-03 17:17 G 31586577.09 31586577.22 31586577.36 0.2704 0.0318 *

Jupiter 81769-02-04 05:46 G 31586608.68 31586608.74 31586608.81 0.0501 0.0433

Earth 81771-07-05 13:12 G 31587489.93 31587490.05 31587490.16 0.2624 0.0513

Moon 81771-07-05 13:27 G 31587489.94 31587490.06 31587490.18 0.2619 0.0417 *

Saturn 81773-07-28 11:17 G 31588243.85 31588243.97 31588244.11 0.0295 0.0198

Saturn 81773-10-25 09:36 G 31588332.73 31588332.90 31588333.08 0.0295 0.0011

Saturn 81774-01-22 07:12 G 31588421.67 31588421.80 31588421.94 0.0295 0.0174

Jupiter 81775-04-06 21:22 G 31588861.24 31588861.39 31588861.54 0.0526 0.0227

Mars 81777-04-09 14:53 G 31589595.00 31589595.12 31589595.23 0.1651 0.0237

Mars 81778-02-18 23:03 G 31589910.30 31589910.46 31589910.62 0.1877 0.0046

Mars 81779-03-15 20:24 G 31590300.35 31590300.35 31590300.36 0.1670 0.1663

Venus 81779-12-05 15:51 G 31590565.09 31590565.16 31590565.23 0.3636 0.2739

Jupiter 81780-08-26 02:10 G 31590829.51 31590829.59 31590829.67 0.0504 0.0409

Jupiter 81780-11-23 09:08 G 31590918.77 31590918.88 31590919.00 0.0501 0.0256

Earth 81782-01-06 17:32 G 31591328.12 31591328.23 31591328.35 0.2708 0.1470

Moon 81782-01-06 18:00 G 31591328.13 31591328.25 31591328.36 0.2702 0.1418 *

Venus 81783-12-05 17:03 G 31592026.07 31592026.21 31592026.34 0.3735 0.0810

Moon 81784-07-07 08:39 G 31592240.74 31592240.86 31592240.98 0.2618 0.0741

Earth 81784-07-07 08:53 G 31592240.75 31592240.87 31592240.98 0.2624 0.0840 *

Venus 81785-06-20 07:56 G 31592588.73 31592588.83 31592588.94 0.3637 0.0255

Mars 81786-08-31 01:56 G 31593025.47 31593025.58 31593025.68 0.1647 0.0665

Jupiter 81787-01-23 20:10 G 31593171.17 31593171.34 31593171.51 0.0525 0.0012

Mars 81787-07-11 18:00 G 31593340.13 31593340.25 31593340.37 0.1883 0.1279

Saturn 81788-05-11 00:44 G 31593644.43 31593644.53 31593644.63 0.0266 0.0178

Mars 81788-08-05 06:58 G 31593730.70 31593730.79 31593730.87 0.1665 0.1187

Saturn 81788-08-07 11:46 G 31593732.85 31593732.99 31593733.12 0.0266 0.0072

Saturn 81788-11-03 22:48 G 31593821.32 31593821.45 31593821.59 0.0266 0.0036

Saturn 81789-01-31 10:20 G 31593909.81 31593909.93 31593910.05 0.0266 0.0145

Saturn 81789-04-29 21:51 G 31593998.38 31593998.41 31593998.45 0.0266 0.0256

Venus 81791-01-04 00:15 G 31594612.43 31594612.51 31594612.60 0.3638 0.2350

Jupiter 81792-09-11 12:44 G 31595228.90 31595229.03 31595229.17 0.0502 0.0088

Mars 81796-01-21 12:44 G 31596455.94 31596456.03 31596456.12 0.1642 0.1089

Moon 81797-07-10 04:05 G 31596991.60 31596991.67 31596991.73 0.2623 0.2170

Earth 81797-07-10 04:48 G 31596991.64 31596991.70 31596991.77 0.2624 0.2220 *

Mars 81797-12-26 17:32 G 31597161.12 31597161.23 31597161.34 0.1660 0.0721

Jupiter 81798-11-11 17:32 G 31597481.09 31597481.23 31597481.38 0.0524 0.0262

Earth 81802-01-02 20:53 G 31598628.29 31598628.37 31598628.45 0.2708 0.2139

Moon 81802-01-02 22:05 G 31598628.33 31598628.42 31598628.52 0.2708 0.1959 *

Saturn 81802-12-16 12:58 G 31598975.94 31598976.04 31598976.15 0.0296 0.0232

Saturn 81803-03-15 11:17 G 31599064.80 31599064.97 31599065.15 0.0295 0.0044

Saturn 81803-06-12 09:08 G 31599153.73 31599153.88 31599154.03 0.0295 0.0142

Jupiter 81804-07-01 16:34 G 31599539.06 31599539.19 31599539.32 0.0503 0.0081

Earth 81804-07-03 22:34 G 31599541.35 31599541.44 31599541.54 0.2624 0.1560

Moon 81804-07-03 23:17 G 31599541.37 31599541.47 31599541.57 0.2621 0.1425 *

Mars 81805-06-14 00:00 G 31599886.45 31599886.50 31599886.54 0.1639 0.1502

Mars 81807-05-20 04:05 G 31600591.55 31600591.67 31600591.79 0.1655 0.0265

Uranus 81807-11-14 18:15 G 31600770.22 31600770.26 31600770.32 0.0144 0.0132

Uranus 81808-02-10 22:20 G 31600858.35 31600858.43 31600858.53 0.0144 0.0110

Mars 81808-03-31 03:36 G 31600907.53 31600907.65 31600907.77 0.1870 0.1200

Uranus 81808-05-09 02:39 G 31600946.50 31600946.61 31600946.73 0.0144 0.0087

Uranus 81808-08-05 06:58 G 31601034.66 31601034.79 31601034.92 0.0144 0.0063

Uranus 81808-11-01 11:03 G 31601122.83 31601122.96 31601123.10 0.0144 0.0041

Uranus 81809-01-28 15:22 G 31601211.00 31601211.14 31601211.29 0.0144 0.0018

Uranus 81809-04-26 19:41 G 31601299.18 31601299.32 31601299.47 0.0144 0.0007

Uranus 81809-07-24 00:00 G 31601387.36 31601387.50 31601387.64 0.0144 0.0030

Uranus 81809-10-20 04:20 G 31601475.55 31601475.68 31601475.82 0.0144 0.0054

Uranus 81810-01-16 08:39 G 31601563.75 31601563.86 31601563.99 0.0144 0.0078

Uranus 81810-04-14 12:58 G 31601651.95 31601652.04 31601652.15 0.0144 0.0102

Uranus 81810-07-11 17:32 G 31601740.17 31601740.23 31601740.31 0.0144 0.0125

Jupiter 81810-08-31 15:22 G 31601791.11 31601791.14 31601791.18 0.0523 0.0510

Jupiter 81810-11-29 19:56 G 31601881.25 31601881.33 31601881.42 0.0526 0.0452

Neptune 81813-01-28 15:51 G 31602672.13 31602672.16 31602672.21 0.0090 0.0087

Neptune 81813-04-26 18:44 G 31602760.21 31602760.28 31602760.38 0.0090 0.0077

Neptune 81813-07-23 21:36 G 31602848.30 31602848.40 31602848.53 0.0090 0.0067

Neptune 81813-10-20 00:44 G 31602936.40 31602936.53 31602936.67 0.0090 0.0057

Neptune 81814-01-16 03:36 G 31603024.51 31603024.65 31603024.80 0.0090 0.0047

Neptune 81814-04-14 06:29 G 31603112.61 31603112.77 31603112.93 0.0090 0.0037

Neptune 81814-07-11 09:22 G 31603200.73 31603200.89 31603201.06 0.0090 0.0027

Neptune 81814-10-07 12:00 G 31603288.84 31603289.00 31603289.18 0.0090 0.0018

Neptune 81815-01-03 14:53 G 31603376.95 31603377.12 31603377.30 0.0090 0.0008

Earth 81815-01-05 22:20 G 31603379.30 31603379.43 31603379.57 0.2708 0.0125

Moon 81815-01-05 23:17 G 31603379.33 31603379.47 31603379.61 0.2703 0.0083 *

Neptune 81815-04-01 17:46 G 31603465.07 31603465.24 31603465.42 0.0090 0.0003

Neptune 81815-06-28 20:39 G 31603553.19 31603553.36 31603553.53 0.0090 0.0012

Neptune 81815-09-24 23:17 G 31603641.31 31603641.47 31603641.64 0.0090 0.0022

Neptune 81815-12-22 01:56 G 31603729.43 31603729.58 31603729.75 0.0090 0.0031

Neptune 81816-03-19 04:48 G 31603817.55 31603817.70 31603817.86 0.0090 0.0041

Jupiter 81816-04-19 20:39 G 31603849.24 31603849.36 31603849.48 0.0504 0.0244

Neptune 81816-06-15 07:12 G 31603905.68 31603905.80 31603905.96 0.0090 0.0051

Jupiter 81816-07-18 03:51 G 31603938.59 31603938.66 31603938.73 0.0501 0.0426

Neptune 81816-09-11 10:05 G 31603993.80 31603993.92 31603994.06 0.0090 0.0060

Mars 81816-10-09 14:53 G 31604022.00 31604022.12 31604022.24 0.1651 0.0181

Neptune 81816-12-08 12:29 G 31604081.93 31604082.02 31604082.15 0.0090 0.0070

Neptune 81817-03-06 15:22 G 31604170.07 31604170.14 31604170.23 0.0090 0.0079

Neptune 81817-06-02 18:15 G 31604258.24 31604258.26 31604258.29 0.0090 0.0088

Moon 81817-07-06 18:15 G 31604292.14 31604292.26 31604292.38 0.2618 0.0297

Earth 81817-07-06 18:15 G 31604292.14 31604292.26 31604292.38 0.2624 0.0250 *

Mars 81817-08-20 23:17 G 31604337.31 31604337.47 31604337.64 0.1877 0.0059

Saturn 81817-09-29 04:05 G 31604376.59 31604376.67 31604376.77 0.0265 0.0199

Saturn 81817-12-26 15:08 G 31604465.00 31604465.13 31604465.26 0.0265 0.0094

Saturn 81818-03-25 02:24 G 31604553.46 31604553.60 31604553.74 0.0265 0.0015

Saturn 81818-06-21 13:41 G 31604641.94 31604642.07 31604642.19 0.0265 0.0122

Saturn 81818-09-18 00:58 G 31604730.48 31604730.54 31604730.61 0.0266 0.0233

Jupiter 81822-09-17 18:15 G 31606191.11 31606191.26 31606191.41 0.0525 0.0209

Mars 81826-03-02 01:41 G 31607452.46 31607452.57 31607452.68 0.1646 0.0619

Mars 81827-01-10 18:44 G 31607767.16 31607767.28 31607767.41 0.1884 0.1179

Earth 81828-01-08 23:17 G 31608130.37 31608130.47 31608130.57 0.2708 0.1832

Moon 81828-01-08 23:17 G 31608130.38 31608130.47 31608130.57 0.2702 0.1912 *

Mars 81828-02-05 06:58 G 31608157.71 31608157.79 31608157.87 0.1665 0.1235

Jupiter 81828-02-07 00:44 G 31608159.45 31608159.53 31608159.61 0.0505 0.0406

Jupiter 81828-05-06 07:41 G 31608248.70 31608248.82 31608248.94 0.0502 0.0261

Moon 81830-07-09 13:27 G 31609042.95 31609043.06 31609043.18 0.2619 0.1125

Earth 81830-07-09 13:56 G 31609042.97 31609043.08 31609043.19 0.2624 0.1107 *

Saturn 81832-05-04 11:32 G 31609707.96 31609707.98 31609708.02 0.0295 0.0289

Saturn 81832-08-01 10:05 G 31609796.76 31609796.92 31609797.09 0.0295 0.0099

Saturn 81832-10-29 08:10 G 31609885.68 31609885.84 31609886.00 0.0295 0.0087

Saturn 81833-01-26 05:17 G 31609974.66 31609974.72 31609974.80 0.0294 0.0269

Jupiter 81834-07-06 17:03 G 31610501.05 31610501.21 31610501.38 0.0525 0.0025

Mars 81835-07-23 12:44 G 31610882.94 31610883.03 31610883.12 0.1643 0.1040

Venus 81836-07-12 13:27 G 31611237.96 31611238.06 31611238.15 0.3637 0.1809

Mars 81837-06-27 17:32 G 31611588.12 31611588.23 31611588.33 0.1660 0.0768

Earth 81837-07-02 08:10 G 31611592.83 31611592.84 31611592.86 0.2624 0.2593

Moon 81837-07-02 09:08 G 31611592.85 31611592.88 31611592.91 0.2624 0.2517 *

Jupiter 81840-02-23 11:17 G 31612558.83 31612558.97 31612559.10 0.0502 0.0090

Venus 81840-07-12 17:46 G 31612699.11 31612699.24 31612699.37 0.3735 0.1379

Venus 81842-01-26 05:32 G 31613261.63 31613261.73 31613261.84 0.3637 0.0745

Moon 81843-07-12 09:08 G 31613793.83 31613793.88 31613793.93 0.2623 0.2324

Earth 81843-07-12 10:05 G 31613793.88 31613793.92 31613793.95 0.2624 0.2498 *

Mars 81844-12-12 23:46 G 31614313.44 31614313.49 31614313.55 0.1638 0.1454

Pluto 81845-12-07 06:00 G 31614672.70 31614672.75 31614672.83 0.0082 0.0073

Pluto 81846-03-05 07:56 G 31614760.71 31614760.83 31614760.94 0.0081 0.0052

Jupiter 81846-04-24 15:36 G 31614811.01 31614811.15 31614811.30 0.0524 0.0258

Pluto 81846-06-01 09:08 G 31614848.75 31614848.88 31614849.03 0.0081 0.0032

Pluto 81846-08-28 10:48 G 31614936.80 31614936.95 31614937.10 0.0081 0.0011

Mars 81846-11-18 04:05 G 31615018.55 31615018.67 31615018.79 0.1656 0.0314

Pluto 81846-11-24 12:15 G 31615024.87 31615025.01 31615025.16 0.0081 0.0010

Saturn 81847-02-16 06:29 G 31615108.70 31615108.77 31615108.83 0.0265 0.0232

Pluto 81847-02-20 13:41 G 31615112.94 31615113.07 31615113.21 0.0081 0.0031

Saturn 81847-05-15 17:17 G 31615197.10 31615197.22 31615197.35 0.0266 0.0127

Pluto 81847-05-19 15:08 G 31615201.02 31615201.13 31615201.25 0.0081 0.0051

Venus 81847-08-11 22:05 G 31615285.37 31615285.42 31615285.46 0.3638 0.3318

Saturn 81847-08-12 04:34 G 31615285.55 31615285.69 31615285.83 0.0266 0.0022

Pluto 81847-08-15 16:20 G 31615289.13 31615289.18 31615289.27 0.0081 0.0072

Mars 81847-09-30 04:20 G 31615334.56 31615334.68 31615334.79 0.1870 0.1294

Saturn 81847-11-08 15:36 G 31615374.02 31615374.15 31615374.29 0.0266 0.0088

Earth 81848-01-04 02:53 G 31615430.51 31615430.62 31615430.72 0.2708 0.1762

Moon 81848-01-04 04:05 G 31615430.55 31615430.67 31615430.78 0.2706 0.1613 *

Saturn 81848-02-05 03:08 G 31615462.54 31615462.63 31615462.73 0.0266 0.0198

Uranus 81850-03-02 02:24 G 31616218.54 31616218.60 31616218.67 0.0134 0.0125

Uranus 81850-05-29 08:24 G 31616306.74 31616306.85 31616306.97 0.0134 0.0101

Earth 81850-07-05 03:36 G 31616343.55 31616343.65 31616343.76 0.2624 0.1307

Moon 81850-07-05 04:20 G 31616343.57 31616343.68 31616343.78 0.2621 0.1256 *

Uranus 81850-08-25 14:24 G 31616394.96 31616395.10 31616395.24 0.0134 0.0077

Uranus 81850-11-21 19:56 G 31616483.18 31616483.33 31616483.50 0.0134 0.0054

Uranus 81851-02-18 01:56 G 31616571.41 31616571.58 31616571.76 0.0134 0.0030

Uranus 81851-05-17 07:41 G 31616659.65 31616659.82 31616660.00 0.0134 0.0007

Uranus 81851-08-13 13:27 G 31616747.89 31616748.06 31616748.24 0.0134 0.0018

Uranus 81851-11-09 19:12 G 31616836.14 31616836.30 31616836.47 0.0135 0.0040

Jupiter 81851-12-12 14:53 G 31616868.99 31616869.12 31616869.26 0.0503 0.0080

Uranus 81852-02-06 00:44 G 31616924.38 31616924.53 31616924.69 0.0135 0.0064

Uranus 81852-05-04 06:15 G 31617012.64 31617012.76 31617012.90 0.0135 0.0087

Uranus 81852-07-31 12:00 G 31617100.90 31617101.00 31617101.10 0.0135 0.0109

Uranus 81852-10-27 17:17 G 31617189.20 31617189.22 31617189.26 0.0135 0.0132

Mars 81856-04-09 14:53 G 31618449.00 31618449.12 31618449.24 0.1651 0.0134

Mars 81857-02-19 00:15 G 31618764.35 31618764.51 31618764.67 0.1877 0.0146

Jupiter 81858-02-10 13:12 G 31619121.02 31619121.05 31619121.09 0.0523 0.0510

Jupiter 81858-05-11 17:46 G 31619211.16 31619211.24 31619211.33 0.0526 0.0454

Earth 81861-01-06 04:20 G 31620181.54 31620181.68 31620181.81 0.2708 0.0271

Moon 81861-01-06 05:03 G 31620181.57 31620181.71 31620181.85 0.2703 0.0411 *

Saturn 81861-12-19 11:17 G 31620528.82 31620528.97 31620529.12 0.0296 0.0138

Saturn 81862-03-18 09:22 G 31620617.72 31620617.89 31620618.06 0.0295 0.0050

Saturn 81862-06-15 06:44 G 31620706.68 31620706.78 31620706.89 0.0295 0.0232

Moon 81863-07-07 23:17 G 31621094.35 31621094.47 31621094.59 0.2618 0.0087

Earth 81863-07-07 23:17 G 31621094.35 31621094.47 31621094.59 0.2624 0.0021 *

Jupiter 81863-09-30 18:29 G 31621179.16 31621179.27 31621179.39 0.0504 0.0249

Jupiter 81863-12-29 01:56 G 31621268.51 31621268.58 31621268.65 0.0501 0.0422

Mars 81865-08-31 01:41 G 31621879.46 31621879.57 31621879.68 0.1647 0.0567

Mars 81866-07-11 19:41 G 31622194.19 31622194.32 31622194.45 0.1883 0.1071

Mars 81867-08-06 06:58 G 31622584.71 31622584.79 31622584.86 0.1665 0.1286

Jupiter 81870-02-27 16:05 G 31623521.02 31623521.17 31623521.33 0.0525 0.0213

Moon 81874-01-09 05:03 G 31624932.62 31624932.71 31624932.79 0.2701 0.2092

Earth 81874-01-09 05:17 G 31624932.64 31624932.72 31624932.79 0.2708 0.2200 *

Mars 81875-01-21 12:44 G 31625309.94 31625310.03 31625310.12 0.1642 0.0993

Jupiter 81875-07-19 22:34 G 31625489.37 31625489.44 31625489.52 0.0505 0.0411

Jupiter 81875-10-17 05:46 G 31625578.62 31625578.74 31625578.86 0.0502 0.0257

Saturn 81876-07-05 09:51 G 31625840.88 31625840.91 31625840.95 0.0265 0.0253

Moon 81876-07-09 18:29 G 31625845.17 31625845.27 31625845.38 0.2620 0.1244

Earth 81876-07-09 19:12 G 31625845.19 31625845.30 31625845.40 0.2624 0.1380 *

Saturn 81876-10-01 20:53 G 31625929.25 31625929.37 31625929.48 0.0265 0.0149

Mars 81876-12-26 17:32 G 31626015.12 31626015.23 31626015.33 0.1660 0.0819

Saturn 81876-12-29 07:56 G 31626017.69 31626017.83 31626017.97 0.0265 0.0044

Saturn 81877-03-27 18:58 G 31626106.16 31626106.29 31626106.43 0.0265 0.0065

Saturn 81877-06-24 06:29 G 31626194.66 31626194.77 31626194.88 0.0265 0.0174

Jupiter 81881-12-16 14:10 G 31627830.93 31627831.09 31627831.26 0.0524 0.0036

Earth 81883-07-03 13:12 G 31628395.00 31628395.05 31628395.11 0.2625 0.2341

Moon 81883-07-03 14:10 G 31628395.03 31628395.09 31628395.15 0.2624 0.2203 *

Mars 81884-06-12 23:46 G 31628740.43 31628740.49 31628740.55 0.1638 0.1408

Mars 81886-05-19 04:05 G 31629445.55 31629445.67 31629445.78 0.1655 0.0361

Mars 81887-03-31 04:48 G 31629761.60 31629761.70 31629761.81 0.1870 0.1381

Venus 81887-08-03 18:44 G 31629887.24 31629887.28 31629887.32 0.3636 0.3343

Jupiter 81887-08-05 09:36 G 31629888.77 31629888.90 31629889.04 0.0502 0.0096

Saturn 81891-05-08 09:51 G 31631260.79 31631260.91 31631261.05 0.0295 0.0194

Venus 81891-08-03 14:10 G 31631348.00 31631348.09 31631348.18 0.3736 0.2870

Saturn 81891-08-05 08:10 G 31631349.67 31631349.84 31631350.01 0.0295 0.0006

Saturn 81891-11-02 05:46 G 31631438.61 31631438.74 31631438.88 0.0295 0.0178

Uranus 81891-12-05 01:41 G 31631471.51 31631471.57 31631471.64 0.0144 0.0125

Uranus 81892-03-02 06:00 G 31631559.65 31631559.75 31631559.85 0.0144 0.0102

Uranus 81892-05-29 10:05 G 31631647.81 31631647.92 31631648.04 0.0144 0.0079

Uranus 81892-08-25 14:10 G 31631735.97 31631736.09 31631736.23 0.0144 0.0057

Uranus 81892-11-21 18:29 G 31631824.14 31631824.27 31631824.41 0.0144 0.0034

Venus 81893-02-16 11:03 G 31631910.85 31631910.96 31631911.06 0.3637 0.0866

Uranus 81893-02-17 22:48 G 31631912.31 31631912.45 31631912.60 0.0144 0.0010

Uranus 81893-05-17 03:08 G 31632000.49 31632000.63 31632000.77 0.0144 0.0014

Uranus 81893-08-13 07:27 G 31632088.67 31632088.81 31632088.95 0.0144 0.0037

Jupiter 81893-10-04 12:58 G 31632140.89 31632141.04 31632141.18 0.0524 0.0269

Uranus 81893-11-09 11:46 G 31632176.86 31632176.99 31632177.12 0.0144 0.0061

Earth 81894-01-04 08:39 G 31632232.74 31632232.86 31632232.98 0.2708 0.1373

Moon 81894-01-04 09:51 G 31632232.79 31632232.91 31632233.03 0.2705 0.1276 *

Uranus 81894-02-05 16:05 G 31632265.06 31632265.17 31632265.29 0.0144 0.0085

Uranus 81894-05-04 20:24 G 31632353.27 31632353.35 31632353.45 0.0144 0.0109

Uranus 81894-08-01 00:58 G 31632441.49 31632441.54 31632441.60 0.0144 0.0133

Neptune 81895-01-22 05:03 G 31632615.66 31632615.71 31632615.77 0.0088 0.0081

Neptune 81895-04-20 06:29 G 31632703.70 31632703.77 31632703.85 0.0088 0.0074

Neptune 81895-07-17 08:10 G 31632791.75 31632791.84 31632791.94 0.0088 0.0066

Mars 81895-10-09 14:39 G 31632875.99 31632876.11 31632876.23 0.1651 0.0099

Neptune 81895-10-13 09:36 G 31632879.80 31632879.90 31632880.01 0.0088 0.0059

Neptune 81896-01-09 11:03 G 31632967.86 31632967.96 31632968.09 0.0088 0.0052

Neptune 81896-04-06 12:58 G 31633055.92 31633056.04 31633056.17 0.0088 0.0044

Neptune 81896-07-03 14:24 G 31633143.98 31633144.10 31633144.24 0.0088 0.0037

Earth 81896-07-05 08:39 G 31633145.75 31633145.86 31633145.97 0.2624 0.1050

Moon 81896-07-05 09:08 G 31633145.77 31633145.88 31633146.00 0.2619 0.0998 *

Mars 81896-08-20 01:12 G 31633191.39 31633191.55 31633191.71 0.1877 0.0248

Neptune 81896-09-29 16:05 G 31633232.04 31633232.17 31633232.31 0.0088 0.0029

Neptune 81896-12-26 17:46 G 31633320.10 31633320.24 31633320.38 0.0088 0.0021

Venus 81897-02-16 18:29 G 31633372.23 31633372.27 31633372.31 0.3734 0.3529

Neptune 81897-03-24 19:27 G 31633408.17 31633408.31 31633408.45 0.0088 0.0014

Neptune 81897-06-20 21:08 G 31633496.23 31633496.38 31633496.52 0.0088 0.0006

Neptune 81897-09-16 22:48 G 31633584.30 31633584.45 31633584.59 0.0088 0.0003

Neptune 81897-12-14 00:15 G 31633672.37 31633672.51 31633672.66 0.0088 0.0009

Neptune 81898-03-12 01:56 G 31633760.44 31633760.58 31633760.73 0.0088 0.0017

Neptune 81898-06-08 03:36 G 31633848.51 31633848.65 31633848.79 0.0088 0.0025

Venus 81898-09-02 03:08 G 31633934.54 31633934.63 31633934.73 0.3637 0.1695

Neptune 81898-09-04 05:03 G 31633936.59 31633936.71 31633936.86 0.0088 0.0033

Neptune 81898-12-01 06:58 G 31634024.66 31634024.79 31634024.92 0.0088 0.0040

Neptune 81899-02-27 08:39 G 31634112.74 31634112.86 31634112.98 0.0088 0.0048

Jupiter 81899-05-24 13:27 G 31634198.93 31634199.06 31634199.20 0.0503 0.0075

Neptune 81899-05-26 10:05 G 31634200.82 31634200.92 31634201.05 0.0088 0.0056

Neptune 81899-08-22 11:46 G 31634288.90 31634288.99 31634289.10 0.0088 0.0064

Neptune 81899-11-18 13:27 G 31634376.99 31634377.06 31634377.16 0.0088 0.0072

Neptune 81900-02-14 15:22 G 31634465.09 31634465.14 31634465.21 0.0088 0.0079

Neptune 81900-05-13 17:03 G 31634553.20 31634553.21 31634553.23 0.0088 0.0087

Mars 81905-03-02 01:41 G 31636306.46 31636306.57 31636306.68 0.1647 0.0518

Jupiter 81905-07-24 11:17 G 31636450.94 31636450.97 31636451.02 0.0523 0.0506

Jupiter 81905-10-22 16:05 G 31636541.10 31636541.17 31636541.25 0.0526 0.0461

Mars 81906-01-10 20:24 G 31636621.21 31636621.35 31636621.49 0.1883 0.0970

Saturn 81906-02-19 22:48 G 31636661.35 31636661.45 31636661.55 0.0265 0.0185

Saturn 81906-05-19 09:51 G 31636749.77 31636749.91 31636750.04 0.0265 0.0080

Saturn 81906-08-15 20:53 G 31636838.23 31636838.37 31636838.51 0.0266 0.0028

Saturn 81906-11-12 08:10 G 31636926.72 31636926.84 31636926.96 0.0266 0.0137

Earth 81907-01-08 10:05 G 31636983.78 31636983.92 31636984.05 0.2708 0.0634

Moon 81907-01-08 10:34 G 31636983.81 31636983.94 31636984.08 0.2703 0.0677 *

Mars 81907-02-05 06:58 G 31637011.72 31637011.79 31637011.86 0.1665 0.1332

Saturn 81907-02-08 19:41 G 31637015.27 31637015.32 31637015.37 0.0266 0.0247

Moon 81909-07-09 04:20 G 31637896.56 31637896.68 31637896.80 0.2618 0.0247

Earth 81909-07-09 04:20 G 31637896.56 31637896.68 31637896.80 0.2624 0.0283 *

Jupiter 81911-03-13 17:17 G 31638509.10 31638509.22 31638509.34 0.0504 0.0241

Jupiter 81911-06-11 00:29 G 31638598.45 31638598.52 31638598.59 0.0501 0.0427

Mars 81914-07-23 12:44 G 31639736.93 31639737.03 31639737.12 0.1642 0.0943

Mars 81916-06-27 17:32 G 31640442.13 31640442.23 31640442.33 0.1660 0.0868

Jupiter 81917-08-10 14:24 G 31640850.94 31640851.10 31640851.25 0.0525 0.0217

Moon 81920-01-11 10:34 G 31641734.90 31641734.94 31641734.98 0.2701 0.2568

Earth 81920-01-11 10:48 G 31641734.91 31641734.95 31641735.00 0.2708 0.2555 *

Saturn 81920-09-25 10:05 G 31641992.82 31641992.92 31641993.02 0.0296 0.0241

Saturn 81920-12-23 08:39 G 31642081.69 31642081.86 31642082.03 0.0296 0.0051

Saturn 81921-03-22 06:29 G 31642170.62 31642170.77 31642170.92 0.0295 0.0135

Moon 81922-07-11 23:32 G 31642647.38 31642647.48 31642647.58 0.2621 0.1614

Earth 81922-07-12 00:15 G 31642647.42 31642647.51 31642647.60 0.2624 0.1646 *

Jupiter 81922-12-30 20:53 G 31642819.30 31642819.37 31642819.45 0.0505 0.0411

Jupiter 81923-03-30 04:05 G 31642908.55 31642908.67 31642908.78 0.0502 0.0257

Mars 81923-12-13 23:46 G 31643167.43 31643167.49 31643167.55 0.1638 0.1358

Mars 81925-11-18 04:05 G 31643872.55 31643872.67 31643872.78 0.1655 0.0413

Mars 81926-09-30 05:46 G 31644188.64 31644188.74 31644188.83 0.1870 0.1480

Jupiter 81929-05-29 12:29 G 31645160.86 31645161.02 31645161.19 0.0524 0.0029

Earth 81929-07-04 18:15 G 31645197.19 31645197.26 31645197.34 0.2625 0.2090

Moon 81929-07-04 19:12 G 31645197.23 31645197.30 31645197.37 0.2624 0.2039 *

Uranus 81934-03-23 08:53 G 31646919.80 31646919.87 31646919.95 0.0134 0.0120

Uranus 81934-06-19 14:53 G 31647008.00 31647008.12 31647008.25 0.0134 0.0096

Uranus 81934-09-15 20:53 G 31647096.22 31647096.37 31647096.52 0.0134 0.0072

Uranus 81934-12-13 02:39 G 31647184.45 31647184.61 31647184.78 0.0134 0.0048

Jupiter 81935-01-16 07:56 G 31647218.70 31647218.83 31647218.96 0.0503 0.0092

Uranus 81935-03-11 08:24 G 31647272.68 31647272.85 31647273.03 0.0134 0.0025

Mars 81935-04-10 14:53 G 31647303.00 31647303.12 31647303.24 0.1651 0.0052

Uranus 81935-06-07 14:24 G 31647360.92 31647361.10 31647361.27 0.0134 0.0003

Saturn 81935-07-10 02:10 G 31647393.51 31647393.59 31647393.67 0.0265 0.0207

Uranus 81935-09-03 19:56 G 31647449.16 31647449.33 31647449.51 0.0135 0.0022

Saturn 81935-10-06 12:58 G 31647481.92 31647482.04 31647482.17 0.0265 0.0103

Uranus 81935-12-01 01:41 G 31647537.41 31647537.57 31647537.73 0.0135 0.0045

Saturn 81936-01-03 00:15 G 31647570.37 31647570.51 31647570.65 0.0265 0.0007

Mars 81936-02-20 01:41 G 31647618.41 31647618.57 31647618.73 0.1877 0.0330

Uranus 81936-02-27 07:12 G 31647625.66 31647625.80 31647625.95 0.0135 0.0069

Saturn 81936-03-31 11:17 G 31647658.85 31647658.97 31647659.10 0.0265 0.0112

Uranus 81936-05-25 12:44 G 31647713.92 31647714.03 31647714.17 0.0135 0.0092

Saturn 81936-06-27 22:48 G 31647747.38 31647747.45 31647747.53 0.0265 0.0222

Uranus 81936-08-21 18:29 G 31647802.18 31647802.27 31647802.36 0.0135 0.0114

Earth 81940-01-06 14:39 G 31649034.98 31649035.11 31649035.23 0.2708 0.1000

Moon 81940-01-06 15:36 G 31649035.02 31649035.15 31649035.29 0.2705 0.0801 *

Jupiter 81941-03-17 10:20 G 31649470.79 31649470.93 31649471.08 0.0523 0.0274

Earth 81942-07-07 13:41 G 31649947.96 31649948.07 31649948.19 0.2625 0.0794

Moon 81942-07-07 14:10 G 31649947.97 31649948.09 31649948.21 0.2618 0.0711 *

Venus 81944-03-10 16:20 G 31650560.10 31650560.18 31650560.26 0.3636 0.2424

Mars 81944-08-31 01:41 G 31650733.45 31650733.57 31650733.68 0.1646 0.0474

Mars 81945-07-11 21:08 G 31651048.24 31651048.38 31651048.53 0.1884 0.0870

Mars 81946-08-06 06:58 G 31651438.73 31651438.79 31651438.85 0.1665 0.1382

Jupiter 81946-11-04 12:00 G 31651528.86 31651529.00 31651529.13 0.0503 0.0069

Venus 81948-03-10 14:53 G 31652020.99 31652021.12 31652021.26 0.3735 0.0665

Venus 81949-09-24 08:39 G 31652583.75 31652583.86 31652583.96 0.3637 0.0172

Saturn 81950-05-12 07:12 G 31652813.64 31652813.80 31652813.96 0.0295 0.0108

Saturn 81950-08-09 05:03 G 31652902.55 31652902.71 31652902.88 0.0295 0.0079

Saturn 81950-11-06 02:24 G 31652991.53 31652991.60 31652991.69 0.0295 0.0261

Jupiter 81953-01-03 08:53 G 31653780.84 31653780.87 31653780.90 0.0523 0.0511

Earth 81953-01-08 15:51 G 31653786.03 31653786.16 31653786.28 0.2708 0.0999

Moon 81953-01-08 16:05 G 31653786.05 31653786.17 31653786.30 0.2702 0.1032 *

Jupiter 81953-04-03 13:41 G 31653870.99 31653871.07 31653871.15 0.0526 0.0455

Mars 81954-01-21 12:29 G 31654163.93 31654164.02 31654164.12 0.1642 0.0899

Venus 81955-04-10 00:44 G 31654607.46 31654607.53 31654607.61 0.3638 0.2634

Moon 81955-07-10 09:22 G 31654698.77 31654698.89 31654699.01 0.2618 0.0539

Earth 81955-07-10 09:36 G 31654698.78 31654698.90 31654699.01 0.2624 0.0556 *

Mars 81955-12-27 17:17 G 31654869.12 31654869.22 31654869.32 0.1660 0.0910

Jupiter 81958-08-23 15:51 G 31655839.04 31655839.16 31655839.28 0.0504 0.0234

Jupiter 81958-11-20 23:03 G 31655928.40 31655928.46 31655928.53 0.0501 0.0435

Mars 81963-06-13 23:46 G 31657594.42 31657594.49 31657594.56 0.1638 0.1309

Saturn 81964-11-26 03:51 G 31658125.61 31658125.66 31658125.71 0.0265 0.0244

Jupiter 81965-01-20 12:29 G 31658180.88 31658181.02 31658181.18 0.0525 0.0227

Saturn 81965-02-22 14:39 G 31658214.00 31658214.11 31658214.23 0.0265 0.0141

Mars 81965-05-19 04:05 G 31658299.55 31658299.67 31658299.78 0.1656 0.0460

Saturn 81965-05-22 01:41 G 31658302.43 31658302.57 31658302.71 0.0265 0.0035

Saturn 81965-08-18 12:58 G 31658390.90 31658391.04 31658391.17 0.0265 0.0073

Saturn 81965-11-15 00:15 G 31658479.41 31658479.51 31658479.61 0.0266 0.0182

Mars 81966-03-31 06:29 G 31658615.68 31658615.77 31658615.85 0.1870 0.1576

Moon 81968-07-12 04:34 G 31659449.60 31659449.69 31659449.78 0.2620 0.1779

Earth 81968-07-12 05:17 G 31659449.64 31659449.72 31659449.81 0.2624 0.1923 *

Jupiter 81970-06-11 19:41 G 31660149.25 31660149.32 31660149.41 0.0504 0.0399

Jupiter 81970-09-09 02:53 G 31660238.50 31660238.62 31660238.73 0.0502 0.0268

Earth 81973-01-03 18:44 G 31661086.26 31661086.28 31661086.30 0.2708 0.2675

Moon 81973-01-03 19:56 G 31661086.27 31661086.33 31661086.39 0.2708 0.2431 *

Mars 81974-10-09 14:53 G 31661730.00 31661730.12 31661730.23 0.1651 0.0062

Earth 81975-07-05 23:17 G 31661999.39 31661999.47 31661999.56 0.2625 0.1835

Moon 81975-07-06 00:15 G 31661999.41 31661999.51 31661999.60 0.2622 0.1685 *

Mars 81975-08-21 02:24 G 31662045.45 31662045.60 31662045.76 0.1877 0.0435

Uranus 81975-09-29 05:03 G 31662084.69 31662084.71 31662084.74 0.0144 0.0140

Uranus 81975-12-26 09:08 G 31662172.81 31662172.88 31662172.96 0.0144 0.0118

Uranus 81976-03-23 13:27 G 31662260.95 31662261.06 31662261.16 0.0144 0.0095

Uranus 81976-06-19 17:32 G 31662349.11 31662349.23 31662349.35 0.0144 0.0072

Uranus 81976-09-15 21:36 G 31662437.27 31662437.40 31662437.54 0.0144 0.0049

Jupiter 81976-11-08 10:48 G 31662490.79 31662490.95 31662491.12 0.0524 0.0019

Uranus 81976-12-13 01:56 G 31662525.44 31662525.58 31662525.72 0.0144 0.0026

Uranus 81977-03-11 06:15 G 31662613.62 31662613.76 31662613.90 0.0144 0.0003

Uranus 81977-06-07 10:34 G 31662701.80 31662701.94 31662702.08 0.0144 0.0021

Uranus 81977-09-03 14:53 G 31662789.98 31662790.12 31662790.26 0.0144 0.0044

Neptune 81977-10-26 14:53 G 31662843.06 31662843.12 31662843.21 0.0090 0.0081

Uranus 81977-11-30 19:12 G 31662878.17 31662878.30 31662878.43 0.0144 0.0068

Neptune 81978-01-22 17:46 G 31662931.15 31662931.24 31662931.37 0.0090 0.0071

Uranus 81978-02-26 23:32 G 31662966.37 31662966.48 31662966.59 0.0144 0.0092

Neptune 81978-04-20 20:53 G 31663019.25 31663019.37 31663019.51 0.0090 0.0060

Uranus 81978-05-26 03:51 G 31663054.58 31663054.66 31663054.75 0.0144 0.0116

Neptune 81978-07-17 23:46 G 31663107.36 31663107.49 31663107.65 0.0090 0.0051

Uranus 81978-08-22 08:24 G 31663142.82 31663142.85 31663142.88 0.0144 0.0140

Neptune 81978-10-14 02:39 G 31663195.47 31663195.61 31663195.78 0.0090 0.0041

Neptune 81979-01-10 05:32 G 31663283.58 31663283.73 31663283.91 0.0090 0.0031

Neptune 81979-04-08 08:39 G 31663371.69 31663371.86 31663372.03 0.0090 0.0021

Neptune 81979-07-05 11:32 G 31663459.81 31663459.98 31663460.15 0.0090 0.0011

Saturn 81979-09-29 06:29 G 31663545.62 31663545.77 31663545.91 0.0296 0.0162

Neptune 81979-10-01 14:24 G 31663547.92 31663548.10 31663548.27 0.0090 0.0002

Saturn 81979-12-27 04:34 G 31663634.52 31663634.69 31663634.87 0.0296 0.0028

Neptune 81979-12-28 17:03 G 31663636.04 31663636.21 31663636.39 0.0090 0.0009

Saturn 81980-03-25 02:10 G 31663723.48 31663723.59 31663723.72 0.0295 0.0212

Neptune 81980-03-25 19:56 G 31663724.16 31663724.33 31663724.50 0.0090 0.0019

Neptune 81980-06-21 22:34 G 31663812.28 31663812.44 31663812.61 0.0090 0.0028

Neptune 81980-09-18 01:27 G 31663900.41 31663900.56 31663900.72 0.0090 0.0038

Neptune 81980-12-15 03:51 G 31663988.53 31663988.66 31663988.82 0.0090 0.0048

Neptune 81981-03-13 06:58 G 31664076.66 31664076.79 31664076.92 0.0090 0.0057

Neptune 81981-06-09 09:22 G 31664164.79 31664164.89 31664165.02 0.0090 0.0067

Neptune 81981-09-05 12:15 G 31664252.93 31664253.01 31664253.10 0.0090 0.0076

Neptune 81981-12-02 14:39 G 31664341.08 31664341.11 31664341.18 0.0090 0.0086

Jupiter 81982-06-28 06:15 G 31664548.63 31664548.76 31664548.90 0.0503 0.0096

Mars 81984-03-01 01:41 G 31665160.45 31665160.57 31665160.68 0.1646 0.0424

Mars 81985-01-09 22:05 G 31665475.27 31665475.42 31665475.56 0.1883 0.0766

Earth 81986-01-06 20:24 G 31665837.22 31665837.35 31665837.48 0.2708 0.0614

Moon 81986-01-06 21:36 G 31665837.26 31665837.40 31665837.53 0.2705 0.0559 *

Mars 81986-02-04 06:58 G 31665865.73 31665865.79 31665865.85 0.1665 0.1429

Earth 81988-07-07 18:58 G 31666750.17 31666750.29 31666750.41 0.2624 0.0527

Moon 81988-07-07 19:12 G 31666750.18 31666750.30 31666750.42 0.2618 0.0526 *

Jupiter 81988-08-27 09:08 G 31666800.73 31666800.88 31666801.03 0.0523 0.0257

Mars 81993-07-22 12:29 G 31668590.92 31668591.02 31668591.12 0.1642 0.0850

Jupiter 81994-04-16 10:20 G 31668858.79 31668858.93 31668859.06 0.0504 0.0068

Saturn 81994-07-12 18:00 G 31668946.14 31668946.25 31668946.36 0.0264 0.0165

Saturn 81994-10-09 05:03 G 31669034.57 31669034.71 31669034.84 0.0265 0.0060

Saturn 81995-01-05 16:05 G 31669123.03 31669123.17 31669123.31 0.0265 0.0047

Saturn 81995-04-04 03:22 G 31669211.53 31669211.64 31669211.76 0.0265 0.0156

Mars 81995-06-27 17:32 G 31669296.13 31669296.23 31669296.32 0.1660 0.0964

Earth 81999-01-09 21:36 G 31670588.28 31670588.40 31670588.52 0.2708 0.1366

Moon 81999-01-09 21:51 G 31670588.29 31670588.41 31670588.52 0.2701 0.1421 *

Jupiter 82000-06-15 06:44 G 31671110.75 31671110.78 31671110.82 0.0522 0.0508

Jupiter 82000-09-13 11:32 G 31671200.90 31671200.98 31671201.06 0.0525 0.0456

Venus 82000-10-15 13:56 G 31671232.98 31671233.08 31671233.18 0.3636 0.1492

83RD MILLENNIUM CE

This is a list of transits of Mercury in the 83rd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Moon 82001-07-10 14:10 G 31671500.98 31671501.09 31671501.21 0.2619 0.0790

Earth 82001-07-10 14:39 G 31671500.99 31671501.11 31671501.22 0.2625 0.0817 *

Pluto 82002-11-17 00:29 G 31671995.49 31671995.52 31671995.58 0.0062 0.0060

Mars 82002-12-12 23:46 G 31672021.41 31672021.49 31672021.56 0.1638 0.1267

Pluto 82003-02-13 01:12 G 31672083.47 31672083.55 31672083.67 0.0062 0.0050

Pluto 82003-05-12 02:24 G 31672171.48 31672171.60 31672171.74 0.0062 0.0039

Pluto 82003-08-08 03:08 G 31672259.50 31672259.63 31672259.80 0.0062 0.0029

Pluto 82003-11-04 04:20 G 31672347.52 31672347.68 31672347.85 0.0062 0.0018

Pluto 82004-01-31 05:17 G 31672435.56 31672435.72 31672435.89 0.0063 0.0007

Pluto 82004-04-28 06:15 G 31672523.59 31672523.76 31672523.93 0.0063 0.0004

Pluto 82004-07-25 07:12 G 31672611.64 31672611.80 31672611.96 0.0063 0.0014

Venus 82004-10-15 15:36 G 31672694.02 31672694.15 31672694.28 0.3735 0.1516

Pluto 82004-10-21 07:56 G 31672699.68 31672699.83 31672699.99 0.0063 0.0025

Mars 82004-11-17 04:05 G 31672726.55 31672726.67 31672726.78 0.1655 0.0507

Pluto 82005-01-17 08:53 G 31672787.74 31672787.87 31672788.02 0.0063 0.0035

Pluto 82005-04-15 09:36 G 31672875.80 31672875.90 31672876.03 0.0063 0.0046

Pluto 82005-07-12 10:20 G 31672963.88 31672963.93 31672964.03 0.0063 0.0057

Mars 82005-09-29 06:58 G 31673042.72 31673042.79 31673042.86 0.1871 0.1657

Jupiter 82006-02-02 14:24 G 31673168.98 31673169.10 31673169.22 0.0504 0.0228

Venus 82006-05-01 06:00 G 31673256.65 31673256.75 31673256.86 0.3637 0.1028

Jupiter 82006-05-02 21:36 G 31673258.34 31673258.40 31673258.47 0.0501 0.0444

Saturn 82009-02-15 04:34 G 31674277.59 31674277.69 31674277.82 0.0296 0.0222

Saturn 82009-05-15 03:08 G 31674366.46 31674366.63 31674366.81 0.0295 0.0032

Saturn 82009-08-12 00:58 G 31674455.40 31674455.54 31674455.69 0.0295 0.0155

Venus 82011-11-14 22:20 G 31675280.42 31675280.43 31675280.44 0.3638 0.3609

Jupiter 82012-07-02 10:34 G 31675510.79 31675510.94 31675511.09 0.0525 0.0226

Mars 82014-04-09 14:39 G 31676156.99 31676157.11 31676157.23 0.1651 0.0065

Moon 82014-07-13 09:51 G 31676251.84 31676251.91 31676251.97 0.2621 0.2135

Earth 82014-07-13 10:34 G 31676251.87 31676251.94 31676252.00 0.2624 0.2195 *

Mars 82015-02-19 03:36 G 31676472.49 31676472.65 31676472.80 0.1877 0.0545

Jupiter 82017-11-21 18:29 G 31677479.19 31677479.27 31677479.36 0.0505 0.0389

Jupiter 82018-02-19 01:27 G 31677568.45 31677568.56 31677568.68 0.0502 0.0279

Uranus 82018-04-12 15:22 G 31677621.06 31677621.14 31677621.24 0.0134 0.0115

Uranus 82018-07-09 21:22 G 31677709.27 31677709.39 31677709.53 0.0134 0.0091

Uranus 82018-10-06 03:22 G 31677797.49 31677797.64 31677797.80 0.0134 0.0067

Uranus 82019-01-02 09:22 G 31677885.72 31677885.89 31677886.05 0.0134 0.0043

Earth 82019-01-05 00:44 G 31677888.45 31677888.53 31677888.60 0.2708 0.2286

Moon 82019-01-05 01:56 G 31677888.51 31677888.58 31677888.66 0.2707 0.2223 *

Uranus 82019-03-31 15:08 G 31677973.96 31677974.13 31677974.30 0.0134 0.0019

Uranus 82019-06-27 20:53 G 31678062.20 31678062.37 31678062.55 0.0134 0.0005

Uranus 82019-09-24 02:39 G 31678150.44 31678150.61 31678150.78 0.0134 0.0028

Uranus 82019-12-21 08:24 G 31678238.69 31678238.85 31678239.01 0.0134 0.0051

Uranus 82020-03-18 13:56 G 31678326.94 31678327.08 31678327.23 0.0134 0.0074

Uranus 82020-06-14 19:27 G 31678415.20 31678415.31 31678415.44 0.0134 0.0097

Uranus 82020-09-11 00:58 G 31678503.47 31678503.54 31678503.63 0.0135 0.0120

Earth 82021-07-06 04:20 G 31678801.59 31678801.68 31678801.78 0.2624 0.1582

Moon 82021-07-06 05:03 G 31678801.62 31678801.71 31678801.81 0.2620 0.1570 *

Mars 82023-08-31 01:41 G 31679587.45 31679587.57 31679587.68 0.1647 0.0375

Saturn 82023-11-29 19:27 G 31679678.23 31679678.31 31679678.40 0.0265 0.0204

Saturn 82024-02-26 06:29 G 31679766.64 31679766.77 31679766.89 0.0265 0.0100

Jupiter 82024-04-20 09:22 G 31679820.72 31679820.89 31679821.06 0.0524 0.0007

Saturn 82024-05-24 17:32 G 31679855.09 31679855.23 31679855.37 0.0265 0.0009

Mars 82024-07-10 22:34 G 31679902.29 31679902.44 31679902.60 0.1883 0.0670

Saturn 82024-08-21 04:34 G 31679943.57 31679943.69 31679943.82 0.0265 0.0114

Saturn 82024-11-17 15:51 G 31680032.10 31680032.16 31680032.24 0.0265 0.0225

Mars 82025-08-05 06:58 G 31680292.74 31680292.79 31680292.84 0.1665 0.1478

Jupiter 82029-12-08 05:32 G 31681878.59 31681878.73 31681878.86 0.0502 0.0113

Earth 82032-01-08 02:10 G 31682639.46 31682639.59 31682639.73 0.2708 0.0244

Moon 82032-01-08 03:08 G 31682639.49 31682639.63 31682639.77 0.2704 0.0052 *

Mars 82033-01-20 12:29 G 31683017.92 31683018.02 31683018.12 0.1642 0.0801

Earth 82034-07-09 00:00 G 31683552.38 31683552.50 31683552.62 0.2625 0.0265

Moon 82034-07-09 00:15 G 31683552.39 31683552.51 31683552.63 0.2618 0.0181 *

Mars 82034-12-26 17:32 G 31683723.13 31683723.23 31683723.32 0.1660 0.1012

Jupiter 82036-02-07 07:41 G 31684130.68 31684130.82 31684130.98 0.0523 0.0242

Saturn 82038-07-05 02:39 G 31685009.58 31685009.61 31685009.67 0.0296 0.0286

Saturn 82038-10-02 01:27 G 31685098.40 31685098.56 31685098.73 0.0296 0.0093

Saturn 82038-12-29 23:46 G 31685187.32 31685187.49 31685187.65 0.0296 0.0096

Saturn 82039-03-28 21:08 G 31685276.33 31685276.38 31685276.44 0.0296 0.0279

Jupiter 82041-09-26 08:53 G 31686188.74 31686188.87 31686189.01 0.0504 0.0061

Mars 82042-06-12 23:46 G 31686448.41 31686448.49 31686448.56 0.1638 0.1215

Mars 82044-05-18 04:05 G 31687153.55 31687153.67 31687153.78 0.1655 0.0558

Moon 82045-01-10 03:36 G 31687390.54 31687390.65 31687390.75 0.2701 0.1681

Earth 82045-01-10 03:22 G 31687390.54 31687390.64 31687390.74 0.2708 0.1736 *

Mars 82045-03-30 07:56 G 31687469.78 31687469.83 31687469.88 0.1870 0.1760

Moon 82047-07-11 19:12 G 31688303.19 31688303.30 31688303.42 0.2619 0.0993

Earth 82047-07-11 19:41 G 31688303.21 31688303.32 31688303.43 0.2624 0.1092 *

Jupiter 82047-11-26 06:00 G 31688440.69 31688440.75 31688440.81 0.0522 0.0482

Jupiter 82048-02-24 10:48 G 31688530.88 31688530.95 31688531.01 0.0525 0.0480

Mars 82051-11-03 10:48 G 31689878.94 31689878.95 31689878.96 0.1634 0.1623

Venus 82051-11-06 19:12 G 31689882.25 31689882.30 31689882.36 0.3636 0.3042

Saturn 82053-04-17 22:34 G 31690410.38 31690410.44 31690410.51 0.0264 0.0229

Saturn 82053-07-15 09:22 G 31690498.77 31690498.89 31690499.02 0.0264 0.0126

Jupiter 82053-07-15 12:58 G 31690498.92 31690499.04 31690499.16 0.0505 0.0224 *

Mars 82053-10-08 14:39 G 31690584.00 31690584.11 31690584.23 0.1651 0.0122

Saturn 82053-10-11 20:24 G 31690587.21 31690587.35 31690587.49 0.0264 0.0021

Jupiter 82053-10-12 20:10 G 31690588.28 31690588.34 31690588.40 0.0502 0.0449

Saturn 82054-01-08 07:41 G 31690675.69 31690675.82 31690675.95 0.0265 0.0088

Saturn 82054-04-06 18:58 G 31690764.20 31690764.29 31690764.38 0.0265 0.0196

Earth 82054-07-04 14:10 G 31690853.08 31690853.09 31690853.10 0.2625 0.2606

Moon 82054-07-04 14:53 G 31690853.10 31690853.12 31690853.14 0.2626 0.2572 *

Mars 82054-08-20 03:51 G 31690899.51 31690899.66 31690899.81 0.1877 0.0616

Venus 82055-11-06 12:00 G 31691342.91 31691343.00 31691343.10 0.3736 0.2778

Venus 82057-05-22 11:32 G 31691905.87 31691905.98 31691906.08 0.3636 0.0562

Neptune 82059-07-24 03:08 G 31692698.60 31692698.63 31692698.69 0.0088 0.0083

Uranus 82059-10-19 12:00 G 31692785.96 31692786.00 31692786.05 0.0144 0.0135

Neptune 82059-10-20 04:34 G 31692786.64 31692786.69 31692786.78 0.0088 0.0076

Jupiter 82059-12-13 08:53 G 31692840.72 31692840.87 31692841.02 0.0525 0.0235

Uranus 82060-01-15 16:20 G 31692874.09 31692874.18 31692874.27 0.0144 0.0112

Neptune 82060-01-16 06:29 G 31692874.68 31692874.77 31692874.86 0.0088 0.0068

Uranus 82060-04-12 20:10 G 31692962.24 31692962.34 31692962.46 0.0144 0.0090

Neptune 82060-04-13 07:56 G 31692962.74 31692962.83 31692962.94 0.0088 0.0061

Uranus 82060-07-10 00:29 G 31693050.40 31693050.52 31693050.65 0.0144 0.0067

Neptune 82060-07-10 09:22 G 31693050.79 31693050.89 31693051.02 0.0088 0.0054

Moon 82060-07-13 14:53 G 31693054.07 31693054.12 31693054.17 0.2623 0.2367

Earth 82060-07-13 15:36 G 31693054.11 31693054.15 31693054.19 0.2624 0.2471 *

Uranus 82060-10-06 04:48 G 31693138.57 31693138.70 31693138.84 0.0144 0.0043

Neptune 82060-10-06 11:03 G 31693138.85 31693138.96 31693139.09 0.0088 0.0046

Uranus 82061-01-02 09:08 G 31693226.74 31693226.88 31693227.02 0.0144 0.0020

Neptune 82061-01-02 12:44 G 31693226.91 31693227.03 31693227.16 0.0088 0.0039 *

Uranus 82061-03-31 13:12 G 31693314.91 31693315.05 31693315.20 0.0144 0.0006

Neptune 82061-03-31 14:24 G 31693314.97 31693315.10 31693315.23 0.0088 0.0031 *

Venus 82061-05-22 16:20 G 31693367.16 31693367.18 31693367.21 0.3735 0.3653

Neptune 82061-06-27 15:51 G 31693403.03 31693403.16 31693403.31 0.0088 0.0024

Uranus 82061-06-27 17:32 G 31693403.09 31693403.23 31693403.38 0.0144 0.0027 *

Neptune 82061-09-23 17:32 G 31693491.09 31693491.23 31693491.38 0.0088 0.0016

Uranus 82061-09-23 21:51 G 31693491.28 31693491.41 31693491.55 0.0144 0.0051 *

Neptune 82061-12-20 19:12 G 31693579.16 31693579.30 31693579.45 0.0088 0.0008

Uranus 82061-12-21 02:10 G 31693579.47 31693579.59 31693579.72 0.0144 0.0074

Neptune 82062-03-18 20:53 G 31693667.22 31693667.37 31693667.51 0.0088 0.0001

Uranus 82062-03-19 06:44 G 31693667.67 31693667.78 31693667.88 0.0144 0.0098

Neptune 82062-06-14 22:34 G 31693755.29 31693755.44 31693755.58 0.0088 0.0007

Uranus 82062-06-15 11:03 G 31693755.89 31693755.96 31693756.04 0.0144 0.0122

Neptune 82062-09-11 00:00 G 31693843.36 31693843.50 31693843.65 0.0088 0.0015

Venus 82062-12-06 03:36 G 31693929.56 31693929.65 31693929.74 0.3637 0.1977

Neptune 82062-12-08 01:41 G 31693931.43 31693931.57 31693931.72 0.0088 0.0022

Mars 82063-03-01 01:27 G 31694014.45 31694014.56 31694014.68 0.1646 0.0334

Neptune 82063-03-06 03:22 G 31694019.51 31694019.64 31694019.78 0.0088 0.0030

Neptune 82063-06-02 05:03 G 31694107.58 31694107.71 31694107.84 0.0088 0.0038

Neptune 82063-08-29 06:29 G 31694195.66 31694195.77 31694195.91 0.0088 0.0046

Neptune 82063-11-25 08:24 G 31694283.74 31694283.85 31694283.97 0.0088 0.0053

Mars 82064-01-09 23:32 G 31694329.32 31694329.48 31694329.63 0.1884 0.0567

Neptune 82064-02-21 10:05 G 31694371.82 31694371.92 31694372.03 0.0088 0.0061

Neptune 82064-05-19 11:32 G 31694459.90 31694459.98 31694460.08 0.0088 0.0069

Neptune 82064-08-15 13:12 G 31694547.99 31694548.05 31694548.13 0.0088 0.0077

Neptune 82064-11-11 14:53 G 31694636.10 31694636.12 31694636.17 0.0088 0.0085

Earth 82065-01-05 06:29 G 31694690.68 31694690.77 31694690.87 0.2708 0.1897

Moon 82065-01-05 07:56 G 31694690.72 31694690.83 31694690.94 0.2707 0.1651 *

Mars 82065-02-03 06:58 G 31694719.74 31694719.79 31694719.83 0.1665 0.1524

Jupiter 82065-05-03 17:17 G 31694809.13 31694809.22 31694809.30 0.0505 0.0382

Jupiter 82065-08-01 00:15 G 31694898.40 31694898.51 31694898.62 0.0502 0.0288

Earth 82067-07-07 09:36 G 31695603.79 31695603.90 31695604.00 0.2624 0.1324

Moon 82067-07-07 10:05 G 31695603.82 31695603.92 31695604.03 0.2620 0.1176 *

Saturn 82068-02-18 23:46 G 31695830.34 31695830.49 31695830.64 0.0296 0.0154

Saturn 82068-05-17 22:05 G 31695919.25 31695919.42 31695919.59 0.0296 0.0036

Saturn 82068-08-14 19:41 G 31696008.21 31696008.32 31696008.43 0.0295 0.0220

Jupiter 82071-10-01 07:41 G 31697150.65 31697150.82 31697150.98 0.0524 0.0013

Mars 82072-07-21 12:29 G 31697444.92 31697445.02 31697445.13 0.1642 0.0753

Mars 82073-05-31 18:29 G 31697759.22 31697759.27 31697759.31 0.1889 0.1801

Mars 82074-06-26 17:17 G 31698150.13 31698150.22 31698150.31 0.1660 0.1054

Jupiter 82077-05-20 04:20 G 31699208.55 31699208.68 31699208.81 0.0503 0.0125

Earth 82078-01-08 08:10 G 31699441.70 31699441.84 31699441.97 0.2708 0.0164

Moon 82078-01-08 08:39 G 31699441.73 31699441.86 31699442.00 0.2703 0.0159 *

Moon 82080-07-09 05:17 G 31700354.59 31700354.72 31700354.84 0.2618 0.0092

Earth 82080-07-09 05:03 G 31700354.59 31700354.71 31700354.83 0.2624 0.0052 *

Mars 82081-12-11 23:46 G 31700875.40 31700875.49 31700875.57 0.1638 0.1170

Saturn 82082-12-02 10:48 G 31701230.85 31701230.95 31701231.06 0.0265 0.0166

Saturn 82083-02-28 21:36 G 31701319.27 31701319.40 31701319.54 0.0265 0.0062

Saturn 82083-05-28 08:53 G 31701407.73 31701407.87 31701408.00 0.0265 0.0046

Jupiter 82083-07-20 06:15 G 31701460.61 31701460.76 31701460.92 0.0523 0.0230

Saturn 82083-08-24 19:56 G 31701496.22 31701496.33 31701496.45 0.0265 0.0154

Mars 82083-11-17 04:05 G 31701580.55 31701580.67 31701580.78 0.1655 0.0605

Saturn 82083-11-21 07:27 G 31701584.80 31701584.81 31701584.83 0.0265 0.0263

Mars 82084-09-28 08:24 G 31701896.83 31701896.85 31701896.87 0.1870 0.1847

Jupiter 82089-03-08 08:10 G 31703518.71 31703518.84 31703518.98 0.0503 0.0042

Moon 82091-01-11 09:08 G 31704192.80 31704192.88 31704192.96 0.2701 0.2163

Earth 82091-01-11 09:08 G 31704192.80 31704192.88 31704192.97 0.2708 0.2099 *

Mars 82091-05-04 10:48 G 31704305.92 31704305.95 31704305.98 0.1634 0.1573

Mars 82093-04-08 14:39 G 31705010.99 31705011.11 31705011.23 0.1651 0.0160

Moon 82093-07-12 00:15 G 31705105.41 31705105.51 31705105.62 0.2619 0.1340

Earth 82093-07-12 00:44 G 31705105.43 31705105.53 31705105.64 0.2624 0.1359 *

Pluto 82094-01-03 13:12 G 31705281.02 31705281.05 31705281.10 0.0082 0.0078

Mars 82094-02-18 04:48 G 31705326.55 31705326.70 31705326.85 0.1877 0.0723

Pluto 82094-04-01 14:39 G 31705369.02 31705369.11 31705369.23 0.0081 0.0057

Pluto 82094-06-28 16:20 G 31705457.05 31705457.18 31705457.32 0.0081 0.0036

Pluto 82094-09-24 17:46 G 31705545.10 31705545.24 31705545.39 0.0081 0.0016

Pluto 82094-12-21 19:27 G 31705633.16 31705633.31 31705633.46 0.0081 0.0005

Pluto 82095-03-19 20:53 G 31705721.23 31705721.37 31705721.51 0.0081 0.0025

Jupiter 82095-05-08 04:48 G 31705770.63 31705770.70 31705770.78 0.0522 0.0464

Pluto 82095-06-15 22:05 G 31705809.31 31705809.42 31705809.55 0.0081 0.0046

Jupiter 82095-08-06 09:22 G 31705860.85 31705860.89 31705860.95 0.0525 0.0500

Pluto 82095-09-11 23:32 G 31705897.41 31705897.48 31705897.58 0.0081 0.0066

Saturn 82097-07-07 21:08 G 31706562.27 31706562.38 31706562.49 0.0296 0.0223

Saturn 82097-10-04 19:41 G 31706651.15 31706651.32 31706651.49 0.0296 0.0032

Saturn 82098-01-01 17:32 G 31706740.09 31706740.23 31706740.38 0.0296 0.0156

Earth 82100-07-05 19:12 G 31707655.25 31707655.30 31707655.35 0.2624 0.2360

Moon 82100-07-05 19:56 G 31707655.27 31707655.33 31707655.39 0.2624 0.2238 *

Jupiter 82100-12-26 11:32 G 31707828.86 31707828.98 31707829.11 0.0505 0.0215

Jupiter 82101-03-25 18:58 G 31707918.24 31707918.29 31707918.34 0.0502 0.0459

Uranus 82102-02-04 15:51 G 31708234.15 31708234.16 31708234.18 0.0134 0.0134

Uranus 82102-05-03 21:51 G 31708322.32 31708322.41 31708322.52 0.0134 0.0110

Uranus 82102-07-31 03:51 G 31708410.53 31708410.66 31708410.80 0.0134 0.0086

Mars 82102-08-31 01:41 G 31708441.45 31708441.57 31708441.68 0.1646 0.0287

Uranus 82102-10-27 09:51 G 31708498.76 31708498.91 31708499.07 0.0134 0.0062

Uranus 82103-01-23 15:36 G 31708586.99 31708587.15 31708587.32 0.0134 0.0038

Uranus 82103-04-21 21:36 G 31708675.22 31708675.40 31708675.57 0.0134 0.0014

Mars 82103-07-12 00:15 G 31708756.35 31708756.51 31708756.67 0.1883 0.0468

Uranus 82103-07-19 03:22 G 31708763.47 31708763.64 31708763.81 0.0134 0.0009

Uranus 82103-10-15 09:08 G 31708851.71 31708851.88 31708852.05 0.0134 0.0032

Uranus 82104-01-11 14:39 G 31708939.96 31708940.11 31708940.27 0.0134 0.0056

Uranus 82104-04-08 20:24 G 31709028.21 31709028.35 31709028.49 0.0134 0.0079

Uranus 82104-07-06 01:56 G 31709116.48 31709116.58 31709116.70 0.0134 0.0101

Mars 82104-08-05 06:58 G 31709146.75 31709146.79 31709146.82 0.1665 0.1574

Uranus 82104-10-02 07:12 G 31709204.76 31709204.80 31709204.88 0.0134 0.0125

Moon 82106-07-15 19:56 G 31709856.33 31709856.33 31709856.33 0.2624 0.2617

Jupiter 82107-05-26 08:24 G 31710170.70 31710170.85 31710170.99 0.0524 0.0266

Venus 82108-06-13 16:48 G 31710555.12 31710555.20 31710555.29 0.3636 0.2113

Earth 82111-01-07 12:29 G 31711492.90 31711493.02 31711493.13 0.2708 0.1508

Moon 82111-01-07 13:41 G 31711492.95 31711493.07 31711493.19 0.2707 0.1432 *

Mars 82112-01-21 12:29 G 31711871.91 31711872.02 31711872.13 0.1642 0.0708

Saturn 82112-04-21 13:41 G 31711962.98 31711963.07 31711963.17 0.0264 0.0192

Venus 82112-06-13 12:58 G 31712015.90 31712016.04 31712016.18 0.3736 0.0541

Saturn 82112-07-19 00:44 G 31712051.40 31712051.53 31712051.66 0.0264 0.0088

Jupiter 82112-10-14 15:51 G 31712139.07 31712139.16 31712139.25 0.0505 0.0376

Saturn 82112-10-15 11:46 G 31712139.85 31712139.99 31712140.13 0.0264 0.0018

Mars 82112-11-30 18:44 G 31712186.22 31712186.28 31712186.35 0.1890 0.1720

Saturn 82113-01-11 22:48 G 31712228.33 31712228.45 31712228.58 0.0264 0.0126

Jupiter 82113-01-11 22:48 G 31712228.34 31712228.45 31712228.56 0.0503 0.0294 *

Saturn 82113-04-10 10:20 G 31712316.87 31712316.93 31712316.99 0.0265 0.0235

Earth 82113-07-08 14:39 G 31712406.00 31712406.11 31712406.22 0.2624 0.1066

Moon 82113-07-08 15:08 G 31712406.02 31712406.13 31712406.24 0.2620 0.1057 *

Mars 82113-12-26 17:17 G 31712577.14 31712577.22 31712577.31 0.1660 0.1106

Venus 82113-12-28 09:08 G 31712578.77 31712578.88 31712578.98 0.3636 0.0399

Jupiter 82119-03-14 06:15 G 31714480.59 31714480.76 31714480.93 0.0524 0.0019

Venus 82119-07-14 01:27 G 31714602.49 31714602.56 31714602.62 0.3637 0.2945

Mars 82121-06-12 23:32 G 31715302.40 31715302.48 31715302.57 0.1638 0.1124

Mars 82123-05-19 03:51 G 31716007.55 31716007.66 31716007.77 0.1655 0.0649

Earth 82124-01-10 13:56 G 31716243.95 31716244.08 31716244.21 0.2708 0.0517

Moon 82124-01-10 14:24 G 31716243.97 31716244.10 31716244.24 0.2702 0.0666 *

Jupiter 82124-10-31 02:53 G 31716538.49 31716538.62 31716538.76 0.0503 0.0136

Moon 82126-07-11 10:05 G 31717156.80 31717156.92 31717157.04 0.2618 0.0318

Earth 82126-07-11 10:20 G 31717156.80 31717156.93 31717157.05 0.2624 0.0282 *

Saturn 82126-11-25 18:58 G 31717294.26 31717294.29 31717294.35 0.0296 0.0286

Saturn 82127-02-22 18:00 G 31717383.08 31717383.25 31717383.41 0.0296 0.0092

Saturn 82127-05-22 16:05 G 31717472.01 31717472.17 31717472.33 0.0296 0.0096

Saturn 82127-08-19 13:27 G 31717561.02 31717561.06 31717561.12 0.0296 0.0279

Mars 82130-11-03 10:48 G 31718732.91 31718732.95 31718732.99 0.1635 0.1527

Jupiter 82130-12-31 04:48 G 31718790.55 31718790.70 31718790.86 0.0523 0.0217

Mars 82132-10-08 14:39 G 31719437.99 31719438.11 31719438.23 0.1651 0.0201

Mars 82133-08-20 05:32 G 31719753.59 31719753.73 31719753.88 0.1877 0.0827

Jupiter 82136-08-19 07:12 G 31720848.66 31720848.80 31720848.93 0.0503 0.0026

Moon 82137-01-12 14:53 G 31720995.05 31720995.12 31720995.18 0.2702 0.2359

Earth 82137-01-12 14:53 G 31720995.07 31720995.12 31720995.18 0.2708 0.2473 *

Moon 82139-07-14 05:17 G 31721907.62 31721907.72 31721907.82 0.2619 0.1500

Earth 82139-07-14 06:00 G 31721907.65 31721907.75 31721907.84 0.2624 0.1629 *

Saturn 82141-09-08 15:08 G 31722695.07 31722695.13 31722695.20 0.0264 0.0232

Saturn 82141-12-06 01:56 G 31722783.46 31722783.58 31722783.70 0.0264 0.0129

Mars 82142-03-01 01:27 G 31722868.45 31722868.56 31722868.68 0.1646 0.0238

Saturn 82142-03-04 12:58 G 31722871.90 31722872.04 31722872.18 0.0264 0.0025

Neptune 82142-04-27 11:17 G 31722925.92 31722925.97 31722926.04 0.0090 0.0084

Saturn 82142-06-01 00:00 G 31722960.37 31722960.50 31722960.63 0.0265 0.0082

Neptune 82142-07-24 14:24 G 31723014.01 31723014.10 31723014.21 0.0090 0.0074

Saturn 82142-08-28 11:17 G 31723048.87 31723048.97 31723049.07 0.0265 0.0191

Jupiter 82142-10-19 03:36 G 31723100.56 31723100.65 31723100.73 0.0523 0.0450

Neptune 82142-10-20 17:17 G 31723102.11 31723102.22 31723102.35 0.0090 0.0064

Mars 82143-01-10 00:58 G 31723183.38 31723183.54 31723183.70 0.1884 0.0371

Neptune 82143-01-16 20:10 G 31723190.21 31723190.34 31723190.49 0.0090 0.0054

Jupiter 82143-01-17 08:24 G 31723190.82 31723190.85 31723190.88 0.0526 0.0515

Neptune 82143-04-14 23:03 G 31723278.32 31723278.46 31723278.62 0.0090 0.0044

Neptune 82143-07-12 02:10 G 31723366.43 31723366.59 31723366.75 0.0090 0.0034

Neptune 82143-10-08 05:03 G 31723454.54 31723454.71 31723454.88 0.0090 0.0024

Uranus 82143-11-09 18:44 G 31723487.23 31723487.28 31723487.35 0.0144 0.0131

Neptune 82144-01-04 07:56 G 31723542.66 31723542.83 31723543.00 0.0090 0.0014

Mars 82144-02-04 06:58 G 31723573.76 31723573.79 31723573.81 0.1665 0.1620

Uranus 82144-02-05 23:03 G 31723575.37 31723575.46 31723575.55 0.0144 0.0108

Neptune 82144-04-01 10:48 G 31723630.77 31723630.95 31723631.12 0.0090 0.0004

Uranus 82144-05-04 03:08 G 31723663.52 31723663.63 31723663.75 0.0144 0.0085

Neptune 82144-06-28 13:41 G 31723718.89 31723719.07 31723719.24 0.0090 0.0006

Uranus 82144-07-31 07:12 G 31723751.68 31723751.80 31723751.94 0.0144 0.0063

Neptune 82144-09-24 16:20 G 31723807.01 31723807.18 31723807.35 0.0090 0.0016

Uranus 82144-10-27 11:32 G 31723839.85 31723839.98 31723840.12 0.0144 0.0039

Neptune 82144-12-21 18:58 G 31723895.13 31723895.29 31723895.47 0.0090 0.0026

Uranus 82145-01-23 15:51 G 31723928.02 31723928.16 31723928.30 0.0144 0.0016

Neptune 82145-03-19 21:51 G 31723983.26 31723983.41 31723983.58 0.0090 0.0035

Uranus 82145-04-21 20:10 G 31724016.19 31724016.34 31724016.48 0.0144 0.0008

Neptune 82145-06-16 00:29 G 31724071.38 31724071.52 31724071.68 0.0090 0.0045

Uranus 82145-07-19 00:15 G 31724104.38 31724104.51 31724104.66 0.0144 0.0032

Neptune 82145-09-12 03:36 G 31724159.51 31724159.65 31724159.78 0.0090 0.0054

Uranus 82145-10-15 04:34 G 31724192.56 31724192.69 31724192.83 0.0144 0.0055

Neptune 82145-12-09 06:00 G 31724247.64 31724247.75 31724247.88 0.0090 0.0064

Uranus 82146-01-11 08:53 G 31724280.76 31724280.87 31724281.00 0.0144 0.0079

Neptune 82146-03-07 08:53 G 31724335.78 31724335.87 31724335.97 0.0090 0.0073

Uranus 82146-04-09 13:12 G 31724368.96 31724369.05 31724369.16 0.0144 0.0103

Neptune 82146-06-03 11:17 G 31724423.92 31724423.97 31724424.05 0.0090 0.0083

Uranus 82146-07-06 17:46 G 31724457.18 31724457.24 31724457.31 0.0144 0.0127

Earth 82146-07-07 00:15 G 31724457.44 31724457.51 31724457.58 0.2625 0.2107

Moon 82146-07-07 00:58 G 31724457.47 31724457.54 31724457.62 0.2622 0.2018 *

Jupiter 82148-06-07 11:17 G 31725158.84 31725158.97 31725159.10 0.0504 0.0187

Jupiter 82148-09-04 18:29 G 31725248.24 31725248.27 31725248.30 0.0501 0.0484

Mars 82151-07-22 12:29 G 31726298.91 31726299.02 31726299.13 0.1642 0.0658

Mars 82152-05-31 19:56 G 31726613.24 31726613.33 31726613.41 0.1890 0.1602

Mars 82153-06-26 17:17 G 31727004.14 31727004.22 31727004.31 0.1660 0.1155

Jupiter 82154-11-05 07:27 G 31727500.67 31727500.81 31727500.95 0.0524 0.0288

Saturn 82156-07-11 14:10 G 31728114.95 31728115.09 31728115.24 0.0296 0.0169

Saturn 82156-10-08 12:44 G 31728203.86 31728204.03 31728204.20 0.0296 0.0022

Saturn 82157-01-05 10:34 G 31728292.82 31728292.94 31728293.06 0.0296 0.0208

Earth 82157-01-07 18:15 G 31728295.14 31728295.26 31728295.39 0.2708 0.1126

Moon 82157-01-07 19:27 G 31728295.18 31728295.31 31728295.44 0.2705 0.0954 *

Earth 82159-07-09 19:41 G 31729208.21 31729208.32 31729208.43 0.2624 0.0806

Moon 82159-07-09 20:10 G 31729208.22 31729208.34 31729208.46 0.2619 0.0695 *

Jupiter 82160-03-26 14:39 G 31729469.02 31729469.11 31729469.20 0.0505 0.0364

Jupiter 82160-06-23 21:36 G 31729558.30 31729558.40 31729558.51 0.0502 0.0307

Mars 82160-12-11 23:32 G 31729729.39 31729729.48 31729729.57 0.1638 0.1075

Mars 82162-11-17 03:51 G 31730434.56 31730434.66 31730434.77 0.1655 0.0697

Venus 82165-01-18 14:24 G 31731228.00 31731228.10 31731228.20 0.3636 0.1177

Jupiter 82166-08-24 06:00 G 31731810.59 31731810.75 31731810.92 0.0523 0.0055

Venus 82169-01-18 13:41 G 31732688.95 31732689.07 31732689.20 0.3736 0.1675

Earth 82170-01-10 19:41 G 31733046.19 31733046.32 31733046.45 0.2708 0.0897

Moon 82170-01-10 20:24 G 31733046.21 31733046.35 31733046.48 0.2702 0.0875 *

Mars 82170-05-04 10:48 G 31733159.90 31733159.95 31733159.99 0.1634 0.1483

Venus 82170-08-04 06:44 G 31733251.68 31733251.78 31733251.88 0.3636 0.1339

Saturn 82171-01-26 18:15 G 31733427.23 31733427.26 31733427.28 0.0264 0.0258

Saturn 82171-04-25 04:48 G 31733515.59 31733515.70 31733515.82 0.0264 0.0156

Saturn 82171-07-22 15:51 G 31733604.02 31733604.16 31733604.30 0.0264 0.0052

Saturn 82171-10-19 02:53 G 31733692.48 31733692.62 31733692.76 0.0264 0.0055

Saturn 82172-01-15 14:10 G 31733780.98 31733781.09 31733781.20 0.0264 0.0162

Mars 82172-04-08 14:39 G 31733864.99 31733865.11 31733865.23 0.1651 0.0250

Jupiter 82172-04-12 01:41 G 31733868.44 31733868.57 31733868.70 0.0503 0.0142

Moon 82172-07-11 15:08 G 31733959.01 31733959.13 31733959.25 0.2618 0.0439

Earth 82172-07-11 15:22 G 31733959.02 31733959.14 31733959.26 0.2624 0.0534 *

Mars 82173-02-18 06:00 G 31734180.61 31734180.75 31734180.89 0.1877 0.0903

Jupiter 82178-06-12 03:51 G 31736120.50 31736120.66 31736120.82 0.0523 0.0195

Mars 82181-08-30 01:27 G 31737295.44 31737295.56 31737295.68 0.1646 0.0190

Mars 82182-07-11 01:41 G 31737610.41 31737610.57 31737610.73 0.1884 0.0273

Jupiter 82184-01-30 06:00 G 31738178.61 31738178.75 31738178.88 0.0504 0.0024

Moon 82185-07-14 10:20 G 31738709.85 31738709.93 31738710.02 0.2621 0.1881

Earth 82185-07-14 11:03 G 31738709.88 31738709.96 31738710.04 0.2624 0.1900 *

Saturn 82185-11-28 12:29 G 31738846.92 31738847.02 31738847.13 0.0296 0.0230

Uranus 82186-02-24 22:20 G 31738935.39 31738935.43 31738935.50 0.0134 0.0128

Saturn 82186-02-25 11:03 G 31738935.79 31738935.96 31738936.14 0.0296 0.0039

Uranus 82186-05-24 04:48 G 31739023.58 31739023.70 31739023.81 0.0134 0.0104

Saturn 82186-05-25 09:08 G 31739024.74 31739024.88 31739025.03 0.0296 0.0150

Uranus 82186-08-20 10:20 G 31739111.80 31739111.93 31739112.08 0.0134 0.0080

Uranus 82186-11-16 16:20 G 31739200.03 31739200.18 31739200.35 0.0134 0.0056

Uranus 82187-02-12 22:20 G 31739288.26 31739288.43 31739288.61 0.0134 0.0032

Uranus 82187-05-12 04:20 G 31739376.50 31739376.68 31739376.85 0.0134 0.0009

Uranus 82187-08-08 10:05 G 31739464.75 31739464.92 31739465.09 0.0134 0.0015

Uranus 82187-11-04 15:36 G 31739552.99 31739553.15 31739553.33 0.0134 0.0039

Uranus 82188-01-31 21:22 G 31739641.24 31739641.39 31739641.55 0.0134 0.0062

Uranus 82188-04-29 03:08 G 31739729.50 31739729.63 31739729.77 0.0134 0.0084

Uranus 82188-07-26 08:39 G 31739817.77 31739817.86 31739817.97 0.0134 0.0107

Uranus 82188-10-22 14:24 G 31739906.06 31739906.10 31739906.14 0.0134 0.0130

Jupiter 82190-03-31 02:10 G 31740430.50 31740430.59 31740430.69 0.0522 0.0434

Mars 82191-01-20 12:29 G 31740725.91 31740726.02 31740726.13 0.1642 0.0614

Mars 82191-11-30 20:39 G 31741040.26 31741040.36 31741040.46 0.1890 0.1499

Earth 82192-07-07 05:17 G 31741259.64 31741259.72 31741259.80 0.2624 0.1855

Moon 82192-07-07 06:00 G 31741259.67 31741259.75 31741259.84 0.2622 0.1769 *

Mars 82192-12-25 17:17 G 31741431.14 31741431.22 31741431.30 0.1660 0.1195

Jupiter 82195-11-18 10:05 G 31742488.80 31742488.92 31742489.05 0.0504 0.0175

Jupiter 82196-02-15 17:17 G 31742578.21 31742578.22 31742578.24 0.0501 0.0498

Mars 82200-06-12 23:32 G 31744156.39 31744156.48 31744156.57 0.1638 0.1027

Saturn 82200-09-12 06:15 G 31744247.67 31744247.76 31744247.85 0.0264 0.0196

Saturn 82200-12-09 17:03 G 31744336.08 31744336.21 31744336.34 0.0264 0.0093

Saturn 82201-03-08 04:05 G 31744424.53 31744424.67 31744424.81 0.0264 0.0014

Saturn 82201-06-04 15:08 G 31744513.01 31744513.13 31744513.26 0.0264 0.0119

Saturn 82201-09-01 02:24 G 31744601.53 31744601.60 31744601.67 0.0265 0.0228

Jupiter 82202-04-18 06:00 G 31744830.62 31744830.75 31744830.89 0.0525 0.0303

Mars 82202-05-19 03:51 G 31744861.56 31744861.66 31744861.77 0.1655 0.0747

Earth 82203-01-10 00:15 G 31745097.38 31745097.51 31745097.64 0.2708 0.0741

Moon 82203-01-10 01:12 G 31745097.41 31745097.55 31745097.68 0.2704 0.0626 *

Earth 82205-07-11 00:44 G 31746010.41 31746010.53 31746010.65 0.2624 0.0547

Moon 82205-07-11 00:58 G 31746010.42 31746010.54 31746010.66 0.2619 0.0537 *

Jupiter 82207-09-07 14:24 G 31746799.00 31746799.10 31746799.20 0.0505 0.0335

Jupiter 82207-12-05 21:22 G 31746888.29 31746888.39 31746888.49 0.0502 0.0335

Mars 82209-11-03 10:34 G 31747586.89 31747586.94 31747587.00 0.1634 0.1435

Mars 82211-10-09 14:39 G 31748291.99 31748292.11 31748292.23 0.1651 0.0297

Mars 82212-08-20 06:58 G 31748607.65 31748607.79 31748607.92 0.1877 0.1003

Jupiter 82214-02-04 05:17 G 31749140.55 31749140.72 31749140.88 0.0524 0.0078

Saturn 82215-07-16 07:12 G 31749667.65 31749667.80 31749667.96 0.0296 0.0117

Saturn 82215-10-13 05:32 G 31749756.57 31749756.73 31749756.90 0.0296 0.0074

Saturn 82216-01-10 03:22 G 31749845.56 31749845.64 31749845.73 0.0296 0.0259

Earth 82216-01-13 01:41 G 31749848.45 31749848.57 31749848.69 0.2708 0.1270

Moon 82216-01-13 01:56 G 31749848.46 31749848.58 31749848.70 0.2702 0.1369 *

Venus 82216-02-10 19:56 G 31749877.26 31749877.33 31749877.40 0.3635 0.2718

Moon 82218-07-13 20:10 G 31750761.22 31750761.34 31750761.45 0.2618 0.0825

Earth 82218-07-13 20:24 G 31750761.23 31750761.35 31750761.46 0.2624 0.0797 *

Jupiter 82219-09-24 00:29 G 31751198.39 31751198.52 31751198.65 0.0503 0.0156

Venus 82220-02-10 10:05 G 31751337.82 31751337.92 31751338.02 0.3736 0.2646

Mars 82221-03-01 01:27 G 31751722.44 31751722.56 31751722.68 0.1646 0.0141

Venus 82221-08-26 12:00 G 31751900.89 31751901.00 31751901.11 0.3636 0.0245

Mars 82222-01-10 02:24 G 31752037.44 31752037.60 31752037.76 0.1883 0.0176

Neptune 82224-01-24 01:27 G 31752781.54 31752781.56 31752781.60 0.0088 0.0085

Neptune 82224-04-21 02:53 G 31752869.57 31752869.62 31752869.70 0.0088 0.0078

Neptune 82224-07-18 04:20 G 31752957.61 31752957.68 31752957.78 0.0088 0.0071

Neptune 82224-10-14 06:15 G 31753045.66 31753045.76 31753045.86 0.0088 0.0063

Neptune 82225-01-10 07:41 G 31753133.72 31753133.82 31753133.94 0.0088 0.0056

Neptune 82225-04-08 09:08 G 31753221.77 31753221.88 31753222.01 0.0088 0.0049

Neptune 82225-07-05 10:48 G 31753309.83 31753309.95 31753310.08 0.0088 0.0041

Neptune 82225-10-01 12:29 G 31753397.89 31753398.02 31753398.16 0.0088 0.0033

Jupiter 82225-11-23 03:51 G 31753450.50 31753450.66 31753450.82 0.0523 0.0157

Neptune 82225-12-28 14:10 G 31753485.95 31753486.09 31753486.23 0.0088 0.0026

Neptune 82226-03-26 15:36 G 31753574.02 31753574.15 31753574.30 0.0088 0.0019

Neptune 82226-06-22 17:17 G 31753662.08 31753662.22 31753662.37 0.0088 0.0011

Neptune 82226-09-18 18:58 G 31753750.15 31753750.29 31753750.44 0.0088 0.0003

Neptune 82226-12-15 20:39 G 31753838.22 31753838.36 31753838.50 0.0088 0.0004

Venus 82227-03-12 04:20 G 31753924.59 31753924.68 31753924.76 0.3637 0.2285

Neptune 82227-03-13 22:20 G 31753926.28 31753926.43 31753926.57 0.0088 0.0012

Neptune 82227-06-09 23:46 G 31754014.35 31754014.49 31754014.64 0.0088 0.0020

Neptune 82227-09-06 01:27 G 31754102.43 31754102.56 31754102.70 0.0088 0.0027

Uranus 82227-12-01 01:27 G 31754188.50 31754188.56 31754188.63 0.0144 0.0127

Neptune 82227-12-03 03:08 G 31754190.50 31754190.63 31754190.76 0.0088 0.0035

Uranus 82228-02-27 05:32 G 31754276.64 31754276.73 31754276.83 0.0144 0.0105

Neptune 82228-02-29 04:34 G 31754278.57 31754278.69 31754278.83 0.0088 0.0043

Uranus 82228-05-25 09:51 G 31754364.80 31754364.91 31754365.03 0.0144 0.0082

Neptune 82228-05-27 06:15 G 31754366.65 31754366.76 31754366.89 0.0088 0.0051

Uranus 82228-08-21 13:56 G 31754452.96 31754453.08 31754453.21 0.0144 0.0059

Neptune 82228-08-23 08:10 G 31754454.73 31754454.84 31754454.95 0.0088 0.0058

Uranus 82228-11-17 18:15 G 31754541.12 31754541.26 31754541.40 0.0144 0.0035

Neptune 82228-11-19 09:36 G 31754542.81 31754542.90 31754543.00 0.0088 0.0066

Uranus 82229-02-13 22:34 G 31754629.30 31754629.44 31754629.58 0.0144 0.0012

Neptune 82229-02-15 11:17 G 31754630.90 31754630.97 31754631.06 0.0088 0.0074

Uranus 82229-05-13 02:39 G 31754717.47 31754717.61 31754717.76 0.0144 0.0013

Neptune 82229-05-14 12:58 G 31754719.00 31754719.04 31754719.10 0.0088 0.0082

Uranus 82229-08-09 06:58 G 31754805.66 31754805.79 31754805.93 0.0144 0.0035

Uranus 82229-11-05 11:17 G 31754893.84 31754893.97 31754894.10 0.0144 0.0059

Saturn 82230-01-30 09:08 G 31754979.81 31754979.88 31754979.95 0.0264 0.0223

Uranus 82230-02-01 15:36 G 31754982.04 31754982.15 31754982.27 0.0144 0.0083

Saturn 82230-04-28 19:56 G 31755068.21 31755068.33 31755068.45 0.0264 0.0120

Uranus 82230-04-30 19:56 G 31755070.24 31755070.33 31755070.43 0.0144 0.0107

Mars 82230-07-22 12:29 G 31755152.91 31755153.02 31755153.13 0.1642 0.0567

Saturn 82230-07-26 06:44 G 31755156.65 31755156.78 31755156.92 0.0264 0.0018

Uranus 82230-07-28 00:29 G 31755158.47 31755158.52 31755158.58 0.0144 0.0131

Saturn 82230-10-22 17:46 G 31755245.11 31755245.24 31755245.38 0.0264 0.0091

Saturn 82231-01-19 05:03 G 31755333.62 31755333.71 31755333.81 0.0264 0.0199

Mars 82231-06-01 21:08 G 31755467.28 31755467.38 31755467.49 0.1890 0.1412

Jupiter 82231-07-13 04:34 G 31755508.55 31755508.69 31755508.82 0.0504 0.0012

Moon 82231-07-16 15:22 G 31755512.06 31755512.14 31755512.22 0.2622 0.2003

Earth 82231-07-16 16:05 G 31755512.11 31755512.17 31755512.24 0.2624 0.2176 *

Mars 82232-06-26 17:17 G 31755858.15 31755858.22 31755858.30 0.1660 0.1248

Earth 82236-01-08 04:20 G 31757148.62 31757148.68 31757148.74 0.2708 0.2432

Moon 82236-01-08 05:32 G 31757148.66 31757148.73 31757148.81 0.2709 0.2220 *

Jupiter 82237-09-11 01:27 G 31757760.45 31757760.56 31757760.66 0.0522 0.0409

Earth 82238-07-09 10:20 G 31758061.84 31758061.93 31758062.03 0.2625 0.1595

Moon 82238-07-09 11:03 G 31758061.87 31758061.96 31758062.06 0.2622 0.1482 *

Mars 82239-12-12 23:32 G 31758583.38 31758583.48 31758583.57 0.1638 0.0986

Mars 82241-11-17 03:51 G 31759288.56 31759288.66 31759288.77 0.1655 0.0787

Jupiter 82243-05-01 08:53 G 31759818.74 31759818.87 31759818.99 0.0505 0.0168

Saturn 82244-12-02 05:32 G 31760399.60 31760399.73 31760399.88 0.0297 0.0177

Saturn 82245-03-01 04:05 G 31760488.50 31760488.67 31760488.85 0.0296 0.0016

Saturn 82245-05-29 01:56 G 31760577.46 31760577.58 31760577.71 0.0296 0.0202

Earth 82249-01-10 06:00 G 31761899.62 31761899.75 31761899.89 0.2708 0.0362

Moon 82249-01-10 06:58 G 31761899.65 31761899.79 31761899.93 0.2703 0.0277 *

Mars 82249-05-04 10:34 G 31762013.88 31762013.94 31762014.00 0.1634 0.1388

Jupiter 82249-09-28 04:48 G 31762160.57 31762160.70 31762160.83 0.0524 0.0319

Pluto 82250-12-15 06:44 G 31762603.78 31762603.78 31762603.83 0.0062 0.0062

Pluto 82251-03-13 07:41 G 31762691.74 31762691.82 31762691.93 0.0062 0.0051

Mars 82251-04-09 14:39 G 31762718.99 31762719.11 31762719.22 0.1651 0.0343

Pluto 82251-06-09 08:53 G 31762779.75 31762779.87 31762780.01 0.0062 0.0040

Earth 82251-07-12 05:46 G 31762812.62 31762812.74 31762812.86 0.2624 0.0288

Moon 82251-07-12 06:00 G 31762812.63 31762812.75 31762812.87 0.2618 0.0264 *

Pluto 82251-09-05 09:36 G 31762867.77 31762867.90 31762868.06 0.0062 0.0031

Pluto 82251-12-02 10:48 G 31762955.80 31762955.95 31762956.12 0.0062 0.0020

Mars 82252-02-19 07:56 G 31763034.70 31763034.83 31763034.95 0.1877 0.1109

Pluto 82252-02-28 11:46 G 31763043.83 31763043.99 31763044.16 0.0063 0.0009

Pluto 82252-05-26 12:44 G 31763131.86 31763132.03 31763132.20 0.0063 0.0002

Pluto 82252-08-22 13:27 G 31763219.91 31763220.06 31763220.24 0.0063 0.0013

Pluto 82252-11-18 14:24 G 31763307.95 31763308.10 31763308.27 0.0063 0.0023

Pluto 82253-02-14 15:08 G 31763396.01 31763396.13 31763396.29 0.0063 0.0034

Pluto 82253-05-13 16:20 G 31763484.07 31763484.18 31763484.31 0.0063 0.0044

Pluto 82253-08-09 17:03 G 31763572.15 31763572.21 31763572.31 0.0063 0.0055

Jupiter 82255-02-17 13:12 G 31764128.95 31764129.05 31764129.15 0.0505 0.0324

Jupiter 82255-05-17 20:10 G 31764218.24 31764218.34 31764218.44 0.0502 0.0347

Saturn 82259-06-19 10:34 G 31765711.93 31765711.94 31765711.96 0.0264 0.0262

Saturn 82259-09-15 21:22 G 31765800.28 31765800.39 31765800.50 0.0264 0.0160

Saturn 82259-12-13 08:10 G 31765888.70 31765888.84 31765888.98 0.0264 0.0056

Saturn 82260-03-10 19:12 G 31765977.16 31765977.30 31765977.44 0.0264 0.0049

Saturn 82260-06-07 06:15 G 31766065.65 31766065.76 31766065.88 0.0264 0.0157

Mars 82260-08-30 01:27 G 31766149.44 31766149.56 31766149.68 0.1646 0.0092

Mars 82261-07-11 03:08 G 31766464.47 31766464.63 31766464.79 0.1884 0.0079

Jupiter 82261-07-17 03:51 G 31766470.49 31766470.66 31766470.82 0.0524 0.0091

Moon 82262-01-13 07:27 G 31766650.70 31766650.81 31766650.92 0.2702 0.1620

Earth 82262-01-13 07:27 G 31766650.70 31766650.81 31766650.92 0.2708 0.1641 *

Moon 82264-07-14 00:58 G 31767563.43 31767563.54 31767563.66 0.2619 0.0983

Earth 82264-07-14 01:27 G 31767563.45 31767563.56 31767563.67 0.2624 0.1062 *

Jupiter 82266-12-06 17:17 G 31768439.19 31768439.22 31768439.26 0.0506 0.0483

Jupiter 82267-03-06 00:15 G 31768528.38 31768528.51 31768528.64 0.0503 0.0185

Mars 82270-01-20 12:15 G 31769579.90 31769580.01 31769580.13 0.1642 0.0523

Uranus 82270-03-18 05:03 G 31769636.65 31769636.71 31769636.79 0.0134 0.0123

Uranus 82270-06-14 11:03 G 31769724.85 31769724.96 31769725.09 0.0134 0.0099

Uranus 82270-09-10 17:03 G 31769813.07 31769813.21 31769813.36 0.0134 0.0075

Mars 82270-11-30 22:05 G 31769894.30 31769894.42 31769894.54 0.1890 0.1302

Uranus 82270-12-07 23:03 G 31769901.30 31769901.46 31769901.63 0.0134 0.0051

Uranus 82271-03-06 04:48 G 31769989.54 31769989.70 31769989.88 0.0134 0.0028

Uranus 82271-06-02 10:48 G 31770077.78 31770077.95 31770078.13 0.0134 0.0004

Moon 82271-07-07 20:53 G 31770113.33 31770113.37 31770113.41 0.2625 0.2456

Uranus 82271-08-29 16:34 G 31770166.02 31770166.19 31770166.37 0.0134 0.0021

Uranus 82271-11-25 22:20 G 31770254.27 31770254.43 31770254.60 0.0134 0.0044

Mars 82271-12-26 17:17 G 31770285.15 31770285.22 31770285.30 0.1660 0.1294

Uranus 82272-02-22 04:05 G 31770342.52 31770342.67 31770342.82 0.0134 0.0067

Uranus 82272-05-20 09:51 G 31770430.78 31770430.91 31770431.04 0.0134 0.0090

Uranus 82272-08-16 15:22 G 31770519.05 31770519.14 31770519.24 0.0134 0.0113

Venus 82272-09-16 17:32 G 31770550.14 31770550.23 31770550.32 0.3635 0.1796

Jupiter 82273-05-05 02:53 G 31770780.46 31770780.62 31770780.78 0.0523 0.0135

Saturn 82274-04-21 01:12 G 31771131.47 31771131.55 31771131.64 0.0297 0.0260

Saturn 82274-07-19 00:00 G 31771220.33 31771220.50 31771220.67 0.0296 0.0066

Saturn 82274-10-15 22:20 G 31771309.27 31771309.43 31771309.59 0.0296 0.0123

Venus 82276-09-16 10:48 G 31772010.81 31772010.95 31772011.09 0.3736 0.0416

Moon 82277-07-16 20:24 G 31772314.30 31772314.35 31772314.40 0.2622 0.2405

Earth 82277-07-16 21:22 G 31772314.35 31772314.39 31772314.43 0.2624 0.2446 *

Venus 82278-04-02 09:36 G 31772573.79 31772573.90 31772574.00 0.3636 0.0686

Jupiter 82278-12-23 03:22 G 31772838.51 31772838.64 31772838.78 0.0504 0.0014

Mars 82279-06-12 23:32 G 31773010.38 31773010.48 31773010.57 0.1638 0.0935

Mars 82281-05-18 03:51 G 31773715.56 31773715.66 31773715.76 0.1655 0.0837

Earth 82282-01-08 10:20 G 31773950.84 31773950.93 31773951.02 0.2708 0.2041

Moon 82282-01-08 11:32 G 31773950.89 31773950.98 31773951.07 0.2707 0.1981 *

Venus 82283-10-17 01:56 G 31774597.53 31774597.58 31774597.62 0.3637 0.3242

Earth 82284-07-09 15:22 G 31774864.04 31774864.14 31774864.24 0.2625 0.1339

Moon 82284-07-09 16:05 G 31774864.07 31774864.17 31774864.27 0.2621 0.1299 *

Jupiter 82285-02-21 01:27 G 31775090.44 31775090.56 31775090.68 0.0522 0.0370

Mars 82288-11-02 10:34 G 31776440.87 31776440.94 31776441.00 0.1634 0.1345

Saturn 82289-02-02 00:15 G 31776532.41 31776532.51 31776532.60 0.0264 0.0187

Saturn 82289-05-01 11:03 G 31776620.83 31776620.96 31776621.09 0.0264 0.0084

Saturn 82289-07-28 22:05 G 31776709.28 31776709.42 31776709.55 0.0264 0.0023

Saturn 82289-10-25 09:08 G 31776797.76 31776797.88 31776798.00 0.0264 0.0128

Saturn 82290-01-21 20:10 G 31776886.29 31776886.34 31776886.41 0.0264 0.0238

Mars 82290-10-08 14:39 G 31777145.99 31777146.11 31777146.22 0.1651 0.0390

Jupiter 82290-10-11 07:27 G 31777148.68 31777148.81 31777148.94 0.0505 0.0161

Mars 82291-08-20 08:10 G 31777461.71 31777461.84 31777461.96 0.1877 0.1178

Earth 82295-01-11 12:00 G 31778701.86 31778702.00 31778702.14 0.2708 0.0041

Moon 82295-01-11 12:44 G 31778701.90 31778702.03 31778702.17 0.2703 0.0187 *

Jupiter 82297-03-10 03:51 G 31779490.54 31779490.66 31779490.79 0.0524 0.0343

Earth 82297-07-12 10:48 G 31779614.83 31779614.95 31779615.08 0.2624 0.0095

Moon 82297-07-12 11:03 G 31779614.84 31779614.96 31779615.08 0.2618 0.0020 *

Mars 82300-03-01 01:27 G 31780576.44 31780576.56 31780576.67 0.1646 0.0081

Mars 82301-01-10 04:05 G 31780891.50 31780891.67 31780891.83 0.1884 0.0042

Jupiter 82302-07-31 11:46 G 31781458.89 31781458.99 31781459.09 0.0506 0.0318

Jupiter 82302-10-28 18:44 G 31781548.19 31781548.28 31781548.38 0.0503 0.0354

Saturn 82303-12-06 23:03 G 31781952.30 31781952.46 31781952.62 0.0297 0.0121

Saturn 82304-03-04 21:22 G 31782041.22 31782041.39 31782041.56 0.0297 0.0070

Saturn 82304-06-01 19:12 G 31782130.22 31782130.30 31782130.39 0.0296 0.0255

Neptune 82306-10-28 07:27 G 31783008.79 31783008.81 31783008.87 0.0090 0.0088

Neptune 82307-01-24 10:20 G 31783096.87 31783096.93 31783097.04 0.0090 0.0078

Neptune 82307-04-22 13:27 G 31783184.96 31783185.06 31783185.19 0.0090 0.0068

Neptune 82307-07-19 16:48 G 31783273.06 31783273.20 31783273.33 0.0090 0.0057

Neptune 82307-10-15 19:41 G 31783361.17 31783361.32 31783361.47 0.0090 0.0047

Neptune 82308-01-11 22:34 G 31783449.28 31783449.44 31783449.60 0.0090 0.0037

Moon 82308-01-15 12:58 G 31783452.95 31783453.04 31783453.14 0.2702 0.1980

Earth 82308-01-15 13:12 G 31783452.96 31783453.05 31783453.14 0.2708 0.2014 *

Neptune 82308-04-09 01:12 G 31783537.39 31783537.55 31783537.73 0.0090 0.0028

Neptune 82308-07-06 04:05 G 31783625.51 31783625.67 31783625.85 0.0090 0.0018

Neptune 82308-10-02 07:12 G 31783713.62 31783713.80 31783713.97 0.0090 0.0007

Jupiter 82308-12-28 02:24 G 31783800.44 31783800.60 31783800.77 0.0523 0.0108

Neptune 82308-12-29 10:05 G 31783801.74 31783801.92 31783802.09 0.0090 0.0003

Neptune 82309-03-27 12:44 G 31783889.86 31783890.03 31783890.21 0.0090 0.0013

Neptune 82309-06-23 15:36 G 31783977.99 31783978.15 31783978.32 0.0090 0.0022

Mars 82309-07-22 12:15 G 31784006.90 31784007.01 31784007.13 0.1642 0.0475

Neptune 82309-09-19 18:29 G 31784066.11 31784066.27 31784066.43 0.0090 0.0032

Neptune 82309-12-16 21:08 G 31784154.23 31784154.38 31784154.54 0.0090 0.0042

Neptune 82310-03-15 00:00 G 31784242.36 31784242.50 31784242.64 0.0090 0.0051

Mars 82310-06-01 23:03 G 31784321.33 31784321.46 31784321.58 0.1890 0.1195

Neptune 82310-06-11 02:39 G 31784330.49 31784330.61 31784330.74 0.0090 0.0061

Moon 82310-07-16 06:00 G 31784365.64 31784365.75 31784365.86 0.2620 0.1278

Earth 82310-07-16 06:29 G 31784365.67 31784365.77 31784365.88 0.2624 0.1337 *

Neptune 82310-09-07 05:17 G 31784418.63 31784418.72 31784418.84 0.0090 0.0071

Neptune 82310-12-04 08:10 G 31784506.77 31784506.84 31784506.92 0.0090 0.0080

Neptune 82311-03-02 10:48 G 31784594.95 31784594.95 31784594.97 0.0090 0.0089

Mars 82311-06-27 17:17 G 31784712.15 31784712.22 31784712.29 0.1660 0.1336

Uranus 82311-12-22 08:24 G 31784889.78 31784889.85 31784889.93 0.0144 0.0122

Uranus 82312-03-19 12:29 G 31784977.93 31784978.02 31784978.13 0.0144 0.0100

Uranus 82312-06-15 16:34 G 31785066.08 31785066.19 31785066.32 0.0144 0.0077

Uranus 82312-09-11 20:53 G 31785154.24 31785154.37 31785154.50 0.0144 0.0054

Uranus 82312-12-09 01:12 G 31785242.41 31785242.55 31785242.69 0.0144 0.0030

Uranus 82313-03-07 05:32 G 31785330.58 31785330.73 31785330.87 0.0144 0.0008

Uranus 82313-06-03 09:36 G 31785418.76 31785418.90 31785419.05 0.0144 0.0017

Uranus 82313-08-30 13:56 G 31785506.95 31785507.08 31785507.22 0.0144 0.0040

Uranus 82313-11-26 18:15 G 31785595.14 31785595.26 31785595.39 0.0144 0.0064

Uranus 82314-02-22 22:34 G 31785683.33 31785683.44 31785683.56 0.0144 0.0088

Jupiter 82314-05-19 16:05 G 31785769.13 31785769.17 31785769.22 0.0506 0.0474

Uranus 82314-05-22 02:53 G 31785771.54 31785771.62 31785771.72 0.0144 0.0112

Jupiter 82314-08-16 23:03 G 31785858.33 31785858.46 31785858.58 0.0503 0.0195

Uranus 82314-08-18 07:27 G 31785859.77 31785859.81 31785859.86 0.0144 0.0136

Earth 82317-07-09 01:12 G 31786915.50 31786915.55 31786915.59 0.2625 0.2375

Moon 82317-07-09 01:56 G 31786915.53 31786915.58 31786915.63 0.2625 0.2348 *

Saturn 82318-06-23 01:56 G 31787264.51 31787264.58 31787264.65 0.0264 0.0224

Saturn 82318-09-19 12:44 G 31787352.91 31787353.03 31787353.15 0.0264 0.0122

Mars 82318-12-12 23:32 G 31787437.38 31787437.48 31787437.57 0.1638 0.0891

Saturn 82318-12-16 23:32 G 31787441.34 31787441.48 31787441.62 0.0264 0.0018

Saturn 82319-03-15 10:34 G 31787529.81 31787529.94 31787530.07 0.0264 0.0089

Saturn 82319-06-11 21:51 G 31787618.32 31787618.41 31787618.50 0.0264 0.0196

Jupiter 82320-10-16 01:12 G 31788110.39 31788110.55 31788110.72 0.0523 0.0126

Mars 82320-11-17 03:51 G 31788142.56 31788142.66 31788142.76 0.1655 0.0884

Moon 82323-07-19 01:41 G 31789116.54 31789116.57 31789116.59 0.2622 0.2559

Venus 82323-10-09 23:03 G 31789199.42 31789199.46 31789199.50 0.3635 0.3330

Jupiter 82326-06-05 03:08 G 31790168.49 31790168.63 31790168.76 0.0504 0.0034

Earth 82328-01-10 16:05 G 31790753.07 31790753.17 31790753.28 0.2708 0.1650

Moon 82328-01-10 17:17 G 31790753.11 31790753.22 31790753.34 0.2705 0.1409 *

Mars 82328-05-04 10:34 G 31790867.87 31790867.94 31790868.01 0.1634 0.1295

Venus 82329-04-24 14:53 G 31791223.02 31791223.12 31791223.23 0.3635 0.0889

Mars 82330-04-09 14:39 G 31791572.99 31791573.11 31791573.22 0.1651 0.0437

Earth 82330-07-11 20:24 G 31791666.24 31791666.35 31791666.46 0.2624 0.1082

Moon 82330-07-11 20:53 G 31791666.26 31791666.37 31791666.49 0.2620 0.0961 *

Mars 82331-02-19 09:08 G 31791888.76 31791888.88 31791888.99 0.1877 0.1281

Jupiter 82332-08-04 00:15 G 31792420.39 31792420.51 31792420.64 0.0522 0.0352

Venus 82333-04-24 11:32 G 31792683.86 31792683.98 31792684.11 0.3736 0.1796

Saturn 82333-04-24 18:29 G 31792684.15 31792684.27 31792684.40 0.0296 0.0204

Saturn 82333-07-22 17:17 G 31792773.04 31792773.22 31792773.39 0.0296 0.0012

Saturn 82333-10-19 15:22 G 31792862.00 31792862.14 31792862.28 0.0296 0.0177

Venus 82334-11-08 07:12 G 31793246.70 31793246.80 31793246.89 0.3636 0.1628

Jupiter 82338-03-24 06:15 G 31794478.63 31794478.76 31794478.89 0.0505 0.0148

Mars 82339-08-31 01:27 G 31795003.44 31795003.56 31795003.68 0.1646 0.0044

Mars 82340-07-11 04:34 G 31795318.53 31795318.69 31795318.85 0.1883 0.0117

Earth 82341-01-12 17:46 G 31795504.11 31795504.24 31795504.38 0.2708 0.0408

Moon 82341-01-12 18:29 G 31795504.14 31795504.27 31795504.41 0.2703 0.0432 *

Pluto 82342-04-30 21:51 G 31795977.32 31795977.41 31795977.50 0.0082 0.0063

Pluto 82342-07-27 23:03 G 31796065.34 31796065.46 31796065.60 0.0081 0.0043

Pluto 82342-10-24 00:44 G 31796153.39 31796153.53 31796153.68 0.0081 0.0022

Pluto 82343-01-20 02:10 G 31796241.44 31796241.59 31796241.74 0.0081 0.0002

Pluto 82343-04-18 03:36 G 31796329.51 31796329.65 31796329.80 0.0081 0.0020

Earth 82343-07-14 16:05 G 31796417.04 31796417.17 31796417.29 0.2624 0.0265

Moon 82343-07-14 16:05 G 31796417.05 31796417.17 31796417.29 0.2618 0.0224 *

Pluto 82343-07-15 05:03 G 31796417.59 31796417.71 31796417.85 0.0081 0.0040

Pluto 82343-10-11 06:44 G 31796505.68 31796505.78 31796505.88 0.0081 0.0060

Pluto 82344-01-07 07:56 G 31796593.83 31796593.83 31796593.85 0.0081 0.0080

Jupiter 82344-08-21 03:51 G 31796820.55 31796820.66 31796820.77 0.0524 0.0378

Saturn 82347-11-10 04:34 G 31797996.66 31797996.69 31797996.74 0.0264 0.0252

Saturn 82348-02-06 15:36 G 31798085.03 31798085.15 31798085.26 0.0264 0.0149

Saturn 82348-05-05 02:24 G 31798173.46 31798173.60 31798173.74 0.0264 0.0045

Saturn 82348-08-01 13:27 G 31798261.92 31798262.06 31798262.19 0.0264 0.0061

Saturn 82348-10-29 00:29 G 31798350.42 31798350.52 31798350.63 0.0264 0.0168

Mars 82349-01-20 12:15 G 31798433.90 31798434.01 31798434.13 0.1642 0.0430

Mars 82349-11-30 23:17 G 31798748.34 31798748.47 31798748.61 0.1890 0.1117

Jupiter 82350-01-10 10:05 G 31798788.82 31798788.92 31798789.03 0.0505 0.0315

Jupiter 82350-04-09 17:17 G 31798878.13 31798878.22 31798878.32 0.0503 0.0358

Mars 82350-12-26 17:17 G 31799139.16 31799139.22 31799139.28 0.1660 0.1385

Moon 82354-01-15 18:44 G 31800255.22 31800255.28 31800255.34 0.2701 0.2364

Earth 82354-01-15 18:58 G 31800255.23 31800255.29 31800255.35 0.2708 0.2377 *

Uranus 82354-04-08 12:00 G 31800337.92 31800338.00 31800338.09 0.0134 0.0117

Uranus 82354-07-05 17:46 G 31800426.12 31800426.24 31800426.38 0.0134 0.0093

Uranus 82354-10-01 23:46 G 31800514.35 31800514.49 31800514.65 0.0134 0.0069

Uranus 82354-12-29 05:46 G 31800602.58 31800602.74 31800602.91 0.0134 0.0045

Uranus 82355-03-27 11:46 G 31800690.82 31800690.99 31800691.17 0.0134 0.0021

Uranus 82355-06-23 17:46 G 31800779.06 31800779.24 31800779.41 0.0134 0.0004

Uranus 82355-09-19 23:32 G 31800867.31 31800867.48 31800867.65 0.0134 0.0027

Uranus 82355-12-17 05:17 G 31800955.56 31800955.72 31800955.88 0.0134 0.0050

Uranus 82356-03-14 10:48 G 31801043.81 31801043.95 31801044.10 0.0134 0.0073

Jupiter 82356-06-09 01:27 G 31801130.40 31801130.56 31801130.73 0.0523 0.0130

Uranus 82356-06-10 16:20 G 31801132.08 31801132.18 31801132.31 0.0134 0.0097

Moon 82356-07-16 11:03 G 31801167.86 31801167.96 31801168.06 0.2620 0.1537

Earth 82356-07-16 11:46 G 31801167.89 31801167.99 31801168.08 0.2624 0.1610 *

Uranus 82356-09-06 22:20 G 31801220.35 31801220.43 31801220.51 0.0134 0.0119

Mars 82358-06-12 23:17 G 31801864.37 31801864.47 31801864.57 0.1638 0.0846

Mars 82360-05-18 03:51 G 31802569.56 31802569.66 31802569.76 0.1655 0.0927

Jupiter 82361-10-29 14:39 G 31803099.06 31803099.11 31803099.15 0.0506 0.0472

Jupiter 82362-01-26 21:22 G 31803188.27 31803188.39 31803188.52 0.0503 0.0198

Saturn 82362-09-11 18:00 G 31803416.16 31803416.25 31803416.33 0.0297 0.0256

Saturn 82362-12-09 16:34 G 31803505.03 31803505.19 31803505.37 0.0297 0.0063

Saturn 82363-03-08 14:53 G 31803593.97 31803594.12 31803594.28 0.0297 0.0127

Earth 82363-07-10 06:15 G 31803717.69 31803717.76 31803717.82 0.2624 0.2124

Moon 82363-07-10 06:58 G 31803717.71 31803717.79 31803717.87 0.2624 0.1957 *

Mars 82367-11-03 10:34 G 31805294.86 31805294.94 31805295.01 0.1634 0.1250

Jupiter 82368-03-27 23:46 G 31805440.33 31805440.49 31805440.66 0.0523 0.0113

Mars 82369-10-08 14:24 G 31805999.99 31806000.10 31806000.22 0.1651 0.0484

Mars 82370-08-20 09:51 G 31806315.80 31806315.91 31806316.02 0.1877 0.1379

Jupiter 82373-11-15 01:41 G 31807498.43 31807498.57 31807498.70 0.0504 0.0039

Earth 82374-01-10 22:05 G 31807555.30 31807555.42 31807555.54 0.2708 0.1256

Moon 82374-01-10 23:17 G 31807555.35 31807555.47 31807555.60 0.2705 0.1213 *

Earth 82376-07-12 01:27 G 31808468.45 31808468.56 31808468.68 0.2624 0.0825

Moon 82376-07-12 01:56 G 31808468.47 31808468.58 31808468.70 0.2619 0.0840 *

Saturn 82377-06-25 17:32 G 31808817.13 31808817.23 31808817.32 0.0264 0.0184

Saturn 82377-09-22 04:20 G 31808905.54 31808905.68 31808905.81 0.0264 0.0081

Saturn 82377-12-19 15:08 G 31808993.99 31808994.13 31808994.27 0.0264 0.0024

Saturn 82378-03-18 02:10 G 31809082.47 31809082.59 31809082.71 0.0264 0.0131

Saturn 82378-06-14 13:27 G 31809171.01 31809171.06 31809171.12 0.0264 0.0239

Mars 82379-03-01 01:27 G 31809430.44 31809430.56 31809430.67 0.1646 0.0071

Mars 82380-01-10 05:17 G 31809745.56 31809745.72 31809745.88 0.1884 0.0207

Jupiter 82380-01-14 22:20 G 31809750.30 31809750.43 31809750.56 0.0522 0.0348

Venus 82380-05-15 20:24 G 31809872.27 31809872.35 31809872.43 0.3635 0.2417

Venus 82384-05-15 07:41 G 31811332.72 31811332.82 31811332.93 0.3737 0.2575

Jupiter 82385-09-03 05:46 G 31811808.61 31811808.74 31811808.87 0.0505 0.0123

Venus 82385-11-29 12:29 G 31811895.91 31811896.02 31811896.13 0.3635 0.0071

Earth 82387-01-13 23:46 G 31812306.36 31812306.49 31812306.62 0.2708 0.0787

Moon 82387-01-14 00:15 G 31812306.37 31812306.51 31812306.64 0.2702 0.0916 *

Mars 82388-07-21 12:15 G 31812860.90 31812861.01 31812861.13 0.1642 0.0381

Neptune 82388-07-24 23:46 G 31812864.49 31812864.49 31812864.50 0.0088 0.0087

Neptune 82388-10-21 01:12 G 31812952.50 31812952.55 31812952.61 0.0088 0.0080

Neptune 82389-01-17 02:39 G 31813040.55 31813040.61 31813040.70 0.0088 0.0073

Neptune 82389-04-15 04:05 G 31813128.59 31813128.67 31813128.78 0.0088 0.0066

Mars 82389-06-01 00:29 G 31813175.38 31813175.52 31813175.66 0.1890 0.1002

Neptune 82389-07-12 06:00 G 31813216.65 31813216.75 31813216.86 0.0088 0.0058

Moon 82389-07-14 20:53 G 31813219.25 31813219.37 31813219.49 0.2618 0.0548

Earth 82389-07-14 21:08 G 31813219.26 31813219.38 31813219.50 0.2624 0.0516 *

Neptune 82389-10-08 07:27 G 31813304.70 31813304.81 31813304.93 0.0088 0.0051

Neptune 82390-01-04 09:08 G 31813392.76 31813392.88 31813393.01 0.0088 0.0043

Neptune 82390-04-02 10:34 G 31813480.82 31813480.94 31813481.08 0.0088 0.0036

Mars 82390-06-26 17:17 G 31813566.16 31813566.22 31813566.28 0.1660 0.1433

Neptune 82390-06-29 12:15 G 31813568.88 31813569.01 31813569.15 0.0088 0.0028

Neptune 82390-09-25 13:56 G 31813656.94 31813657.08 31813657.22 0.0088 0.0021

Neptune 82390-12-22 15:22 G 31813745.01 31813745.14 31813745.29 0.0088 0.0014

Neptune 82391-03-20 17:03 G 31813833.07 31813833.21 31813833.36 0.0088 0.0006

Venus 82391-06-15 04:48 G 31813919.62 31813919.70 31813919.77 0.3636 0.2583

Neptune 82391-06-16 18:44 G 31813921.14 31813921.28 31813921.43 0.0088 0.0002

Neptune 82391-09-12 20:24 G 31814009.21 31814009.35 31814009.49 0.0088 0.0010

Neptune 82391-12-09 22:05 G 31814097.28 31814097.42 31814097.56 0.0088 0.0017

Jupiter 82392-02-01 02:24 G 31814150.49 31814150.60 31814150.71 0.0524 0.0393

Neptune 82392-03-06 23:32 G 31814185.35 31814185.48 31814185.62 0.0088 0.0025

Saturn 82392-04-27 12:44 G 31814236.88 31814237.03 31814237.19 0.0296 0.0141

Neptune 82392-06-03 01:12 G 31814273.42 31814273.55 31814273.69 0.0088 0.0032

Saturn 82392-07-25 11:17 G 31814325.80 31814325.97 31814326.14 0.0296 0.0050

Neptune 82392-08-30 02:53 G 31814361.49 31814361.62 31814361.75 0.0088 0.0040

Saturn 82392-10-22 09:08 G 31814414.78 31814414.88 31814414.98 0.0296 0.0236

Neptune 82392-11-26 04:20 G 31814449.57 31814449.68 31814449.81 0.0088 0.0048

Neptune 82393-02-22 06:00 G 31814537.65 31814537.75 31814537.87 0.0088 0.0056

Neptune 82393-05-21 07:56 G 31814625.73 31814625.83 31814625.93 0.0088 0.0063

Neptune 82393-08-17 09:22 G 31814713.81 31814713.89 31814713.98 0.0088 0.0071

Neptune 82393-11-13 11:03 G 31814801.91 31814801.96 31814802.03 0.0088 0.0079

Neptune 82394-02-09 12:29 G 31814890.02 31814890.02 31814890.06 0.0088 0.0087

Uranus 82395-10-15 11:46 G 31815502.95 31815502.99 31815503.02 0.0144 0.0138

Uranus 82396-01-11 15:36 G 31815591.08 31815591.15 31815591.24 0.0144 0.0116

Uranus 82396-04-08 19:56 G 31815679.22 31815679.33 31815679.43 0.0144 0.0093

Uranus 82396-07-06 00:00 G 31815767.38 31815767.50 31815767.62 0.0144 0.0070

Uranus 82396-10-02 04:20 G 31815855.54 31815855.68 31815855.81 0.0144 0.0047

Uranus 82396-12-29 08:24 G 31815943.71 31815943.85 31815943.99 0.0144 0.0024

Uranus 82397-03-27 12:44 G 31816031.89 31816032.03 31816032.17 0.0144 0.0001

Jupiter 82397-06-22 09:08 G 31816118.77 31816118.88 31816118.98 0.0505 0.0304

Uranus 82397-06-23 16:48 G 31816120.07 31816120.20 31816120.35 0.0144 0.0024

Jupiter 82397-09-19 16:05 G 31816208.08 31816208.17 31816208.26 0.0502 0.0368

Uranus 82397-09-19 21:08 G 31816208.25 31816208.38 31816208.52 0.0144 0.0047 *

Mars 82397-12-11 23:17 G 31816291.37 31816291.47 31816291.58 0.1638 0.0799

Uranus 82397-12-17 01:27 G 31816296.44 31816296.56 31816296.69 0.0144 0.0071

Uranus 82398-03-15 05:46 G 31816384.64 31816384.74 31816384.86 0.0144 0.0095

Uranus 82398-06-11 10:05 G 31816472.85 31816472.92 31816473.01 0.0144 0.0119

Uranus 82398-09-07 14:39 G 31816561.10 31816561.11 31816561.13 0.0144 0.0143

Mars 82399-11-17 03:51 G 31816996.56 31816996.66 31816996.76 0.1655 0.0975

Moon 82400-01-17 00:29 G 31817057.50 31817057.52 31817057.54 0.2701 0.2648

Moon 82402-07-17 16:05 G 31817970.08 31817970.17 31817970.26 0.2620 0.1764

Earth 82402-07-17 16:48 G 31817970.12 31817970.20 31817970.28 0.2624 0.1883 *

Jupiter 82403-11-20 01:12 G 31818460.39 31818460.55 31818460.71 0.0523 0.0160

Saturn 82406-11-12 20:24 G 31819549.27 31819549.35 31819549.43 0.0264 0.0211

Saturn 82407-02-09 06:58 G 31819637.67 31819637.79 31819637.92 0.0264 0.0108

Mars 82407-05-04 10:20 G 31819721.86 31819721.93 31819722.01 0.1634 0.1208

Saturn 82407-05-08 18:00 G 31819726.11 31819726.25 31819726.39 0.0264 0.0003

Saturn 82407-08-05 05:03 G 31819814.58 31819814.71 31819814.84 0.0264 0.0103

Saturn 82407-11-01 16:20 G 31819903.10 31819903.18 31819903.26 0.0264 0.0212

Mars 82409-04-08 14:39 G 31820426.99 31820427.11 31820427.22 0.1650 0.0530

Jupiter 82409-04-10 12:58 G 31820429.00 31820429.04 31820429.09 0.0506 0.0469

Jupiter 82409-07-08 19:56 G 31820518.20 31820518.33 31820518.45 0.0503 0.0200

Earth 82409-07-10 11:17 G 31820519.88 31820519.97 31820520.05 0.2624 0.1866

Moon 82409-07-10 12:00 G 31820519.92 31820520.00 31820520.08 0.2623 0.1831 *

Mars 82410-02-18 10:20 G 31820742.83 31820742.93 31820743.03 0.1877 0.1453

Jupiter 82415-09-07 22:48 G 31822770.28 31822770.45 31822770.62 0.0522 0.0093

Mars 82416-09-23 21:36 G 31823152.39 31823152.40 31823152.42 0.1631 0.1605

Mars 82418-08-30 01:12 G 31823857.43 31823857.55 31823857.67 0.1646 0.0089

Mars 82419-07-11 06:15 G 31824172.60 31824172.76 31824172.92 0.1884 0.0308

Earth 82420-01-12 04:05 G 31824357.54 31824357.67 31824357.80 0.2708 0.0863

Moon 82420-01-12 05:17 G 31824357.58 31824357.72 31824357.85 0.2705 0.0638 *

Jupiter 82421-04-27 00:00 G 31824828.36 31824828.50 31824828.64 0.0504 0.0039

Saturn 82421-09-14 12:29 G 31824968.90 31824969.02 31824969.16 0.0297 0.0189

Saturn 82421-12-12 11:17 G 31825057.80 31825057.97 31825058.15 0.0297 0.0005

Saturn 82422-03-11 09:22 G 31825146.76 31825146.89 31825147.02 0.0297 0.0192

Earth 82422-07-13 06:29 G 31825270.66 31825270.77 31825270.89 0.2624 0.0569

Moon 82422-07-13 06:58 G 31825270.67 31825270.79 31825270.91 0.2618 0.0442 *

Jupiter 82427-06-26 20:39 G 31827080.24 31827080.36 31827080.50 0.0522 0.0338

Mars 82428-01-20 12:15 G 31827287.89 31827288.01 31827288.13 0.1642 0.0335

Mars 82428-11-30 01:12 G 31827602.40 31827602.55 31827602.69 0.1890 0.0905

Mars 82429-12-25 17:17 G 31827993.16 31827993.22 31827993.27 0.1660 0.1474

Moon 82433-01-14 05:46 G 31829108.61 31829108.74 31829108.87 0.2701 0.1095

Earth 82433-01-14 05:32 G 31829108.61 31829108.73 31829108.86 0.2708 0.1168 *

Jupiter 82433-02-13 04:05 G 31829138.54 31829138.67 31829138.81 0.0505 0.0122

Moon 82435-07-16 01:56 G 31830021.46 31830021.58 31830021.69 0.2619 0.0681

Earth 82435-07-16 02:10 G 31830021.47 31830021.59 31830021.70 0.2624 0.0779 *

Saturn 82436-03-31 22:34 G 31830281.40 31830281.44 31830281.50 0.0264 0.0243

Saturn 82436-06-28 09:22 G 31830369.78 31830369.89 31830370.01 0.0264 0.0140

Saturn 82436-09-24 20:10 G 31830458.21 31830458.34 31830458.48 0.0264 0.0036

Venus 82436-12-20 18:00 G 31830545.15 31830545.25 31830545.35 0.3635 0.1496

Saturn 82436-12-22 07:12 G 31830546.67 31830546.80 31830546.94 0.0264 0.0070

Saturn 82437-03-20 18:29 G 31830635.16 31830635.27 31830635.37 0.0264 0.0177

Mars 82437-06-11 23:17 G 31830718.37 31830718.47 31830718.58 0.1638 0.0752

Uranus 82438-04-28 18:15 G 31831039.18 31831039.26 31831039.38 0.0134 0.0112

Uranus 82438-07-26 00:44 G 31831127.40 31831127.53 31831127.66 0.0134 0.0087

Uranus 82438-10-22 06:44 G 31831215.62 31831215.78 31831215.93 0.0134 0.0063

Uranus 82439-01-18 12:44 G 31831303.86 31831304.03 31831304.20 0.0134 0.0039

Uranus 82439-04-16 18:29 G 31831392.10 31831392.27 31831392.45 0.0134 0.0015

Mars 82439-05-18 03:51 G 31831423.57 31831423.66 31831423.75 0.1655 0.1023

Uranus 82439-07-14 00:15 G 31831480.34 31831480.51 31831480.69 0.0134 0.0010

Jupiter 82439-07-14 00:15 G 31831480.40 31831480.51 31831480.62 0.0524 0.0390 *

Uranus 82439-10-10 06:00 G 31831568.59 31831568.75 31831568.93 0.0134 0.0033

Uranus 82440-01-06 11:46 G 31831656.84 31831656.99 31831657.16 0.0134 0.0056

Uranus 82440-04-03 17:32 G 31831745.10 31831745.23 31831745.38 0.0134 0.0079

Uranus 82440-06-30 23:17 G 31831833.36 31831833.47 31831833.59 0.0134 0.0102

Uranus 82440-09-27 04:48 G 31831921.65 31831921.70 31831921.77 0.0134 0.0125

Venus 82440-12-20 08:39 G 31832005.72 31832005.86 31832006.01 0.3737 0.0310

Venus 82442-07-06 10:05 G 31832568.82 31832568.92 31832569.02 0.3635 0.0986

Jupiter 82444-12-02 08:24 G 31833448.74 31833448.85 31833448.96 0.0505 0.0282

Jupiter 82445-03-01 15:22 G 31833538.05 31833538.14 31833538.22 0.0502 0.0390

Mars 82446-11-02 10:20 G 31834148.85 31834148.93 31834149.01 0.1634 0.1160

Venus 82448-01-20 02:24 G 31834592.58 31834592.60 31834592.62 0.3636 0.3538

Moon 82448-07-17 21:08 G 31834772.31 31834772.38 31834772.45 0.2621 0.2104

Earth 82448-07-17 21:51 G 31834772.35 31834772.41 31834772.48 0.2624 0.2156 *

Mars 82448-10-07 14:24 G 31834853.99 31834854.10 31834854.22 0.1650 0.0576

Mars 82449-08-19 11:03 G 31835169.87 31835169.96 31835170.05 0.1877 0.1548

Saturn 82451-02-01 08:53 G 31835700.80 31835700.87 31835700.95 0.0296 0.0265

Saturn 82451-05-01 07:56 G 31835789.66 31835789.83 31835790.00 0.0296 0.0071

Jupiter 82451-05-01 23:32 G 31835790.32 31835790.48 31835790.64 0.0524 0.0168

Saturn 82451-07-29 06:00 G 31835878.60 31835878.75 31835878.91 0.0296 0.0119

Earth 82453-01-09 07:56 G 31836408.80 31836408.83 31836408.87 0.2708 0.2579

Moon 82453-01-09 09:22 G 31836408.83 31836408.89 31836408.95 0.2707 0.2408 *

Earth 82455-07-11 16:20 G 31837322.08 31837322.18 31837322.27 0.2624 0.1618

Moon 82455-07-11 16:48 G 31837322.11 31837322.20 31837322.30 0.2621 0.1502 *

Mars 82456-03-24 21:36 G 31837579.37 31837579.40 31837579.43 0.1630 0.1559

Jupiter 82456-09-20 11:32 G 31837758.93 31837758.98 31837759.04 0.0506 0.0462

Jupiter 82456-12-18 18:29 G 31837848.14 31837848.27 31837848.39 0.0503 0.0207

Mars 82458-02-28 01:12 G 31838284.43 31838284.55 31838284.67 0.1646 0.0139

Mars 82459-01-09 06:44 G 31838599.62 31838599.78 31838599.94 0.1884 0.0395

Jupiter 82463-02-17 22:05 G 31840100.25 31840100.42 31840100.59 0.0523 0.0068

Saturn 82465-11-15 12:15 G 31841101.91 31841102.01 31841102.12 0.0264 0.0167

Earth 82466-01-12 09:51 G 31841159.78 31841159.91 31841160.05 0.2708 0.0486

Moon 82466-01-12 11:03 G 31841159.82 31841159.96 31841160.09 0.2704 0.0439 *

Saturn 82466-02-11 23:03 G 31841190.33 31841190.46 31841190.60 0.0264 0.0063

Saturn 82466-05-11 10:05 G 31841278.78 31841278.92 31841279.06 0.0264 0.0043

Saturn 82466-08-07 21:08 G 31841367.27 31841367.38 31841367.50 0.0264 0.0150

Saturn 82466-11-04 08:24 G 31841455.83 31841455.85 31841455.88 0.0264 0.0259

Mars 82467-07-21 12:15 G 31841714.89 31841715.01 31841715.13 0.1642 0.0291

Mars 82468-05-31 01:41 G 31842029.43 31842029.57 31842029.72 0.1890 0.0817

Earth 82468-07-13 11:32 G 31842072.86 31842072.98 31842073.10 0.2624 0.0312

Moon 82468-07-13 12:00 G 31842072.88 31842073.00 31842073.12 0.2618 0.0324 *

Jupiter 82468-10-06 22:20 G 31842158.29 31842158.43 31842158.56 0.0504 0.0041

Mars 82469-06-25 17:17 G 31842420.17 31842420.22 31842420.26 0.1660 0.1524

Neptune 82471-07-25 06:58 G 31843179.72 31843179.79 31843179.87 0.0090 0.0081

Neptune 82471-10-21 09:51 G 31843267.81 31843267.91 31843268.02 0.0090 0.0071

Neptune 82472-01-17 12:44 G 31843355.91 31843356.03 31843356.17 0.0090 0.0061

Neptune 82472-04-14 15:36 G 31843444.02 31843444.15 31843444.30 0.0090 0.0051

Neptune 82472-07-11 18:44 G 31843532.13 31843532.28 31843532.44 0.0090 0.0041

Neptune 82472-10-07 21:36 G 31843620.24 31843620.40 31843620.57 0.0090 0.0031

Neptune 82473-01-04 00:29 G 31843708.35 31843708.52 31843708.69 0.0090 0.0021

Neptune 82473-04-02 03:22 G 31843796.47 31843796.64 31843796.82 0.0090 0.0011

Neptune 82473-06-29 06:15 G 31843884.59 31843884.76 31843884.94 0.0090 0.0002

Neptune 82473-09-25 09:08 G 31843972.71 31843972.88 31843973.05 0.0090 0.0009

Neptune 82473-12-22 11:46 G 31844060.83 31844060.99 31844061.17 0.0090 0.0019

Neptune 82474-03-20 14:39 G 31844148.95 31844149.11 31844149.28 0.0090 0.0028

Neptune 82474-06-16 17:32 G 31844237.08 31844237.23 31844237.39 0.0090 0.0038

Neptune 82474-09-12 20:10 G 31844325.20 31844325.34 31844325.50 0.0090 0.0048

Jupiter 82474-12-06 19:27 G 31844410.17 31844410.31 31844410.44 0.0522 0.0324

Neptune 82474-12-09 22:48 G 31844413.34 31844413.45 31844413.60 0.0090 0.0058

Neptune 82475-03-08 01:41 G 31844501.47 31844501.57 31844501.70 0.0090 0.0067

Neptune 82475-06-04 04:20 G 31844589.61 31844589.68 31844589.79 0.0090 0.0077

Neptune 82475-08-31 07:12 G 31844677.77 31844677.80 31844677.86 0.0090 0.0086

Mars 82476-12-10 23:17 G 31845145.36 31845145.47 31845145.57 0.1638 0.0711

Mars 82478-11-16 03:51 G 31845850.57 31845850.66 31845850.75 0.1655 0.1064

Earth 82479-01-15 11:32 G 31845910.86 31845910.98 31845911.09 0.2708 0.1544

Moon 82479-01-15 11:32 G 31845910.87 31845910.98 31845911.09 0.2701 0.1641 *

Uranus 82479-11-04 19:12 G 31846204.25 31846204.30 31846204.36 0.0144 0.0130

Uranus 82480-01-31 23:17 G 31846292.38 31846292.47 31846292.57 0.0144 0.0108

Uranus 82480-04-29 03:22 G 31846380.53 31846380.64 31846380.76 0.0144 0.0085

Jupiter 82480-07-26 02:24 G 31846468.47 31846468.60 31846468.73 0.0505 0.0125

Uranus 82480-07-26 07:41 G 31846468.69 31846468.82 31846468.95 0.0144 0.0062 *

Saturn 82480-09-17 08:24 G 31846521.69 31846521.85 31846522.01 0.0297 0.0113

Uranus 82480-10-22 11:46 G 31846556.86 31846556.99 31846557.13 0.0144 0.0039

Saturn 82480-12-15 06:58 G 31846610.62 31846610.79 31846610.95 0.0297 0.0079

Uranus 82481-01-18 16:05 G 31846645.03 31846645.17 31846645.31 0.0144 0.0016

Saturn 82481-03-14 04:34 G 31846699.63 31846699.69 31846699.78 0.0297 0.0265

Uranus 82481-04-16 20:24 G 31846733.20 31846733.35 31846733.49 0.0144 0.0009

Uranus 82481-07-14 00:29 G 31846821.38 31846821.52 31846821.66 0.0144 0.0032

Moon 82481-07-16 06:44 G 31846823.67 31846823.78 31846823.89 0.2618 0.1065

Earth 82481-07-16 07:12 G 31846823.69 31846823.80 31846823.91 0.2624 0.1049 *

Uranus 82481-10-10 04:48 G 31846909.57 31846909.70 31846909.83 0.0144 0.0055

Uranus 82482-01-06 09:08 G 31846997.76 31846997.88 31846998.00 0.0144 0.0079

Uranus 82482-04-04 13:27 G 31847085.97 31847086.06 31847086.16 0.0144 0.0103

Uranus 82482-07-01 17:46 G 31847174.18 31847174.24 31847174.31 0.0144 0.0127

Mars 82486-05-03 10:20 G 31848575.85 31848575.93 31848576.02 0.1634 0.1114

Jupiter 82486-12-23 22:20 G 31848810.32 31848810.43 31848810.54 0.0524 0.0396

Venus 82488-01-11 23:32 G 31849194.42 31849194.48 31849194.54 0.3634 0.3013

Mars 82488-04-07 14:24 G 31849280.99 31849281.10 31849281.21 0.1651 0.0619

Moon 82488-07-09 02:53 G 31849373.60 31849373.62 31849373.64 0.2626 0.2566

Mars 82489-02-17 12:00 G 31849596.93 31849597.00 31849597.07 0.1877 0.1650

Jupiter 82492-05-14 06:29 G 31850778.66 31850778.77 31850778.88 0.0506 0.0284

Jupiter 82492-08-11 13:41 G 31850867.98 31850868.07 31850868.15 0.0503 0.0389

Venus 82493-07-27 15:36 G 31851218.04 31851218.15 31851218.25 0.3635 0.0579

Moon 82494-07-19 02:24 G 31851574.54 31851574.60 31851574.65 0.2622 0.2279

Earth 82494-07-19 03:08 G 31851574.59 31851574.63 31851574.67 0.2624 0.2432 *

Saturn 82495-04-04 14:53 G 31851834.03 31851834.12 31851834.22 0.0264 0.0196

Saturn 82495-07-02 01:41 G 31851922.44 31851922.57 31851922.70 0.0264 0.0092

Mars 82495-09-23 21:36 G 31852006.36 31852006.40 31852006.44 0.1630 0.1513

Saturn 82495-09-28 12:44 G 31852010.89 31852011.03 31852011.17 0.0264 0.0014

Saturn 82495-12-25 23:46 G 31852099.36 31852099.49 31852099.61 0.0264 0.0119

Saturn 82496-03-23 11:03 G 31852187.89 31852187.96 31852188.03 0.0264 0.0228

Venus 82497-07-27 09:36 G 31852678.78 31852678.90 31852679.02 0.3737 0.1946

Mars 82497-08-29 01:12 G 31852711.43 31852711.55 31852711.67 0.1646 0.0188

Mars 82498-07-10 07:27 G 31853026.66 31853026.81 31853026.97 0.1884 0.0489

Jupiter 82498-10-11 20:53 G 31853120.21 31853120.37 31853120.53 0.0524 0.0159

Earth 82499-01-10 13:56 G 31853211.00 31853211.08 31853211.17 0.2708 0.2178

Moon 82499-01-10 15:22 G 31853211.05 31853211.14 31853211.23 0.2707 0.2006 *

Venus 82499-02-10 07:41 G 31853241.73 31853241.82 31853241.91 0.3636 0.1935

Pluto 82499-04-09 13:27 G 31853300.01 31853300.06 31853300.15 0.0062 0.0057

Pluto 82499-07-06 14:24 G 31853388.00 31853388.10 31853388.23 0.0062 0.0046

Pluto 82499-10-02 15:36 G 31853476.02 31853476.15 31853476.29 0.0062 0.0035

Pluto 82499-12-29 16:20 G 31853564.04 31853564.18 31853564.35 0.0062 0.0026

Pluto 82500-03-27 17:32 G 31853652.07 31853652.23 31853652.40 0.0062 0.0014

Pluto 82500-06-23 18:29 G 31853740.11 31853740.27 31853740.44 0.0062 0.0004

Pluto 82500-09-19 19:27 G 31853828.14 31853828.31 31853828.48 0.0063 0.0007

Pluto 82500-12-16 20:10 G 31853916.19 31853916.34 31853916.51 0.0063 0.0018

Pluto 82501-03-14 21:08 G 31854004.24 31854004.38 31854004.54 0.0063 0.0028

Pluto 82501-06-10 21:51 G 31854092.30 31854092.41 31854092.56 0.0063 0.0039

Earth 82501-07-12 21:22 G 31854124.28 31854124.39 31854124.49 0.2624 0.1360

Moon 82501-07-12 21:51 G 31854124.31 31854124.41 31854124.52 0.2620 0.1295 *

Pluto 82501-09-06 23:03 G 31854180.37 31854180.46 31854180.57 0.0063 0.0049

Pluto 82501-12-03 23:46 G 31854268.46 31854268.49 31854268.56 0.0063 0.0060

Jupiter 82504-03-03 10:48 G 31855088.89 31855088.95 31855089.01 0.0506 0.0445

Jupiter 82504-05-31 17:32 G 31855178.11 31855178.23 31855178.35 0.0503 0.0224

Mars 82507-01-20 12:15 G 31856141.89 31856142.01 31856142.12 0.1642 0.0249

Mars 82507-12-01 02:39 G 31856456.46 31856456.61 31856456.76 0.1890 0.0712

Mars 82508-12-25 17:17 G 31856847.18 31856847.22 31856847.25 0.1660 0.1569

Saturn 82510-02-05 05:32 G 31857253.60 31857253.73 31857253.87 0.0296 0.0182

Saturn 82510-05-05 04:20 G 31857342.50 31857342.68 31857342.85 0.0296 0.0012

Jupiter 82510-07-31 19:56 G 31857430.16 31857430.33 31857430.50 0.0523 0.0068

Saturn 82510-08-02 02:10 G 31857431.47 31857431.59 31857431.72 0.0296 0.0197

Earth 82512-01-14 15:51 G 31857962.02 31857962.16 31857962.30 0.2708 0.0092

Moon 82512-01-14 16:34 G 31857962.05 31857962.19 31857962.33 0.2703 0.0037 *

Earth 82514-07-15 16:34 G 31858875.07 31858875.19 31858875.32 0.2624 0.0108

Moon 82514-07-15 16:48 G 31858875.08 31858875.20 31858875.32 0.2618 0.0026 *

Jupiter 82516-03-19 20:39 G 31859488.23 31859488.36 31859488.50 0.0504 0.0046

Mars 82516-06-11 23:17 G 31859572.36 31859572.47 31859572.58 0.1638 0.0662

Mars 82518-05-18 03:51 G 31860277.57 31860277.66 31860277.75 0.1655 0.1113

Uranus 82522-02-20 19:27 G 31861652.27 31861652.31 31861652.36 0.0134 0.0129

Jupiter 82522-05-19 18:15 G 31861740.12 31861740.26 31861740.40 0.0522 0.0305

Uranus 82522-05-20 01:27 G 31861740.46 31861740.56 31861740.68 0.0134 0.0104

Uranus 82522-08-16 07:27 G 31861828.68 31861828.81 31861828.96 0.0134 0.0080

Uranus 82522-11-12 13:27 G 31861916.91 31861917.06 31861917.23 0.0134 0.0056

Uranus 82523-02-08 19:27 G 31862005.14 31862005.31 31862005.49 0.0134 0.0032

Uranus 82523-05-08 01:27 G 31862093.39 31862093.56 31862093.74 0.0134 0.0008

Uranus 82523-08-04 07:27 G 31862181.63 31862181.81 31862181.98 0.0134 0.0016

Uranus 82523-10-31 13:12 G 31862269.88 31862270.05 31862270.21 0.0134 0.0039

Uranus 82524-01-27 18:44 G 31862358.13 31862358.28 31862358.44 0.0134 0.0062

Uranus 82524-04-25 00:29 G 31862446.39 31862446.52 31862446.66 0.0134 0.0085

Uranus 82524-07-22 06:00 G 31862534.66 31862534.75 31862534.86 0.0134 0.0109

Saturn 82524-08-22 18:00 G 31862566.17 31862566.25 31862566.32 0.0264 0.0223

Uranus 82524-10-18 11:32 G 31862622.96 31862622.98 31862623.03 0.0134 0.0132

Saturn 82524-11-19 04:34 G 31862654.57 31862654.69 31862654.81 0.0264 0.0119

Moon 82525-01-16 17:17 G 31862713.12 31862713.22 31862713.32 0.2701 0.1832

Earth 82525-01-16 17:17 G 31862713.12 31862713.22 31862713.31 0.2708 0.1917 *

Saturn 82525-02-15 15:22 G 31862743.01 31862743.14 31862743.28 0.0264 0.0017

Saturn 82525-05-15 02:24 G 31862831.47 31862831.60 31862831.74 0.0264 0.0093

Saturn 82525-08-11 13:41 G 31862919.98 31862920.07 31862920.16 0.0265 0.0201

Mars 82525-11-02 10:20 G 31863002.84 31863002.93 31863003.02 0.1634 0.1072

Moon 82527-07-18 11:46 G 31863625.89 31863625.99 31863626.10 0.2618 0.1189

Earth 82527-07-18 12:15 G 31863625.91 31863626.01 31863626.12 0.2624 0.1321 *

Mars 82527-10-08 14:24 G 31863707.99 31863708.10 31863708.21 0.1650 0.0665

Jupiter 82528-01-07 00:29 G 31863798.39 31863798.52 31863798.65 0.0505 0.0127

Mars 82528-08-19 12:15 G 31864023.95 31864024.01 31864024.07 0.1877 0.1717

Jupiter 82534-06-05 20:39 G 31866140.26 31866140.36 31866140.47 0.0524 0.0403

Earth 82534-07-11 06:58 G 31866175.75 31866175.79 31866175.84 0.2625 0.2392

Moon 82534-07-11 07:56 G 31866175.77 31866175.83 31866175.89 0.2624 0.2261 *

Mars 82535-03-25 21:36 G 31866433.35 31866433.40 31866433.45 0.1631 0.1469

Mars 82537-02-28 01:12 G 31867138.43 31867138.55 31867138.66 0.1646 0.0227

Mars 82538-01-09 08:24 G 31867453.70 31867453.85 31867454.00 0.1884 0.0588

Saturn 82539-06-25 06:29 G 31867985.66 31867985.77 31867985.89 0.0297 0.0221

Saturn 82539-09-22 05:17 G 31868074.55 31868074.72 31868074.90 0.0297 0.0029

Jupiter 82539-10-26 04:34 G 31868108.58 31868108.69 31868108.80 0.0506 0.0290

Saturn 82539-12-20 03:36 G 31868163.51 31868163.65 31868163.79 0.0297 0.0161

Jupiter 82540-01-23 11:32 G 31868197.90 31868197.98 31868198.07 0.0503 0.0383

Venus 82544-08-18 21:08 G 31869867.29 31869867.38 31869867.46 0.3634 0.2102

Earth 82545-01-11 19:56 G 31870013.23 31870013.33 31870013.44 0.2708 0.1783

Moon 82545-01-11 21:22 G 31870013.28 31870013.39 31870013.50 0.2707 0.1657 *

Jupiter 82546-03-24 18:44 G 31870450.12 31870450.28 31870450.44 0.0523 0.0160

Mars 82546-07-21 12:15 G 31870568.89 31870569.01 31870569.12 0.1642 0.0203

Mars 82547-06-01 03:22 G 31870883.49 31870883.64 31870883.80 0.1890 0.0611

Earth 82547-07-14 02:24 G 31870926.49 31870926.60 31870926.70 0.2625 0.1106

Moon 82547-07-14 02:53 G 31870926.51 31870926.62 31870926.73 0.2620 0.1021 *

Mars 82548-06-25 17:03 G 31871274.19 31871274.21 31871274.24 0.1660 0.1612

Venus 82548-08-18 05:46 G 31871327.63 31871327.74 31871327.84 0.3738 0.2458

Venus 82550-03-04 13:12 G 31871890.94 31871891.05 31871891.15 0.3635 0.0388

Jupiter 82551-08-14 08:53 G 31872418.81 31872418.87 31872418.93 0.0506 0.0450

Jupiter 82551-11-11 15:36 G 31872508.03 31872508.15 31872508.27 0.0503 0.0220

Neptune 82553-04-21 23:17 G 31873035.44 31873035.47 31873035.53 0.0088 0.0083

Neptune 82553-07-19 00:44 G 31873123.48 31873123.53 31873123.62 0.0088 0.0076

Neptune 82553-10-15 02:24 G 31873211.52 31873211.60 31873211.70 0.0088 0.0068

Saturn 82554-01-09 20:53 G 31873298.33 31873298.37 31873298.42 0.0264 0.0248

Neptune 82554-01-11 03:51 G 31873299.57 31873299.66 31873299.78 0.0088 0.0061

Saturn 82554-04-08 07:41 G 31873386.70 31873386.82 31873386.93 0.0264 0.0145

Neptune 82554-04-09 05:46 G 31873387.63 31873387.74 31873387.85 0.0088 0.0053

Saturn 82554-07-05 18:29 G 31873475.13 31873475.27 31873475.41 0.0264 0.0041

Neptune 82554-07-06 07:12 G 31873475.68 31873475.80 31873475.93 0.0088 0.0046

Saturn 82554-10-02 05:32 G 31873563.59 31873563.73 31873563.86 0.0264 0.0065

Neptune 82554-10-02 08:39 G 31873563.74 31873563.86 31873564.00 0.0088 0.0039 *

Neptune 82554-12-29 10:20 G 31873651.80 31873651.93 31873652.07 0.0088 0.0031

Saturn 82554-12-29 16:34 G 31873652.09 31873652.19 31873652.30 0.0264 0.0173

Neptune 82555-03-27 12:00 G 31873739.86 31873740.00 31873740.14 0.0088 0.0023

Neptune 82555-06-23 13:41 G 31873827.93 31873828.07 31873828.21 0.0088 0.0016

Venus 82555-09-18 05:17 G 31873914.66 31873914.72 31873914.78 0.3636 0.2880

Neptune 82555-09-19 15:08 G 31873915.99 31873916.13 31873916.28 0.0088 0.0009

Mars 82555-12-11 23:17 G 31873999.36 31873999.47 31873999.57 0.1638 0.0619

Neptune 82555-12-16 16:48 G 31874004.06 31874004.20 31874004.35 0.0088 0.0001

Neptune 82556-03-13 18:29 G 31874092.13 31874092.27 31874092.41 0.0088 0.0007

Neptune 82556-06-09 19:56 G 31874180.19 31874180.33 31874180.48 0.0088 0.0015

Neptune 82556-09-05 21:36 G 31874268.26 31874268.40 31874268.54 0.0088 0.0022

Mars 82556-10-20 21:51 G 31874313.38 31874313.41 31874313.44 0.1896 0.1866

Neptune 82556-12-02 23:17 G 31874356.34 31874356.47 31874356.61 0.0088 0.0030

Neptune 82557-03-01 00:44 G 31874444.41 31874444.53 31874444.67 0.0088 0.0038

Neptune 82557-05-28 02:39 G 31874532.48 31874532.61 31874532.73 0.0088 0.0045

Neptune 82557-08-24 04:05 G 31874620.56 31874620.67 31874620.79 0.0088 0.0053

Mars 82557-11-16 03:51 G 31874704.57 31874704.66 31874704.74 0.1655 0.1159

Neptune 82557-11-20 05:32 G 31874708.64 31874708.73 31874708.85 0.0088 0.0061

Jupiter 82558-01-10 16:48 G 31874760.04 31874760.20 31874760.37 0.0523 0.0083

Earth 82558-01-14 21:51 G 31874764.27 31874764.41 31874764.54 0.2708 0.0305

Moon 82558-01-14 22:20 G 31874764.29 31874764.43 31874764.57 0.2702 0.0354 *

Neptune 82558-02-16 07:12 G 31874796.72 31874796.80 31874796.90 0.0088 0.0069

Neptune 82558-05-15 09:08 G 31874884.81 31874884.88 31874884.95 0.0088 0.0076

Neptune 82558-08-11 10:34 G 31874972.91 31874972.94 31874972.99 0.0088 0.0084

Moon 82560-07-15 21:36 G 31875677.28 31875677.40 31875677.53 0.2618 0.0210

Earth 82560-07-15 21:51 G 31875677.29 31875677.41 31875677.53 0.2624 0.0239 *

Jupiter 82563-08-30 19:41 G 31876818.18 31876818.32 31876818.45 0.0504 0.0055

Uranus 82563-11-26 02:39 G 31876905.55 31876905.61 31876905.69 0.0144 0.0123

Uranus 82564-02-22 06:44 G 31876993.69 31876993.78 31876993.89 0.0144 0.0100

Uranus 82564-05-20 11:03 G 31877081.84 31877081.96 31877082.08 0.0144 0.0077

Uranus 82564-08-16 15:08 G 31877170.00 31877170.13 31877170.26 0.0144 0.0054

Uranus 82564-11-12 19:27 G 31877258.17 31877258.31 31877258.44 0.0144 0.0031

Uranus 82565-02-08 23:32 G 31877346.34 31877346.48 31877346.62 0.0144 0.0008

Mars 82565-05-03 10:20 G 31877429.84 31877429.93 31877430.02 0.1634 0.1024

Uranus 82565-05-08 03:51 G 31877434.52 31877434.66 31877434.80 0.0144 0.0016

Uranus 82565-08-04 07:56 G 31877522.70 31877522.83 31877522.97 0.0144 0.0040

Uranus 82565-10-31 12:29 G 31877610.89 31877611.02 31877611.14 0.0144 0.0063

Uranus 82566-01-27 16:34 G 31877699.08 31877699.19 31877699.31 0.0144 0.0087

Uranus 82566-04-25 20:53 G 31877787.29 31877787.37 31877787.47 0.0144 0.0111

Uranus 82566-07-23 01:27 G 31877875.51 31877875.56 31877875.61 0.0144 0.0135

Mars 82567-04-08 14:24 G 31878134.99 31878135.10 31878135.21 0.1650 0.0710

Mars 82568-02-18 13:12 G 31878451.02 31878451.05 31878451.09 0.1877 0.1818

Saturn 82568-11-11 04:05 G 31878717.64 31878717.67 31878717.72 0.0296 0.0286

Saturn 82569-02-08 03:08 G 31878806.47 31878806.63 31878806.80 0.0296 0.0092

Saturn 82569-05-08 01:27 G 31878895.40 31878895.56 31878895.73 0.0296 0.0098

Saturn 82569-08-04 23:17 G 31878984.43 31878984.47 31878984.52 0.0296 0.0283

Jupiter 82569-10-29 15:36 G 31879070.02 31879070.15 31879070.29 0.0522 0.0313

Moon 82571-01-17 22:48 G 31879515.38 31879515.45 31879515.52 0.2702 0.2320

Earth 82571-01-17 23:03 G 31879515.39 31879515.46 31879515.53 0.2708 0.2290 *

Moon 82573-07-18 17:03 G 31880428.11 31880428.21 31880428.30 0.2619 0.1585

Earth 82573-07-18 17:32 G 31880428.13 31880428.23 31880428.32 0.2624 0.1589 *

Mars 82574-09-23 21:36 G 31880860.34 31880860.40 31880860.45 0.1630 0.1425

Jupiter 82575-06-18 23:03 G 31881128.33 31881128.46 31881128.59 0.0504 0.0125

Mars 82576-08-29 01:12 G 31881565.43 31881565.55 31881565.67 0.1646 0.0273

Mars 82577-07-10 08:53 G 31881880.72 31881880.87 31881881.02 0.1884 0.0673

Earth 82580-07-11 12:00 G 31882977.94 31882978.00 31882978.07 0.2625 0.2136

Moon 82580-07-11 12:58 G 31882977.97 31882978.04 31882978.11 0.2623 0.2099 *

Jupiter 82581-11-15 19:12 G 31883470.20 31883470.30 31883470.40 0.0524 0.0417

Saturn 82583-08-26 10:34 G 31884118.83 31884118.94 31884119.04 0.0264 0.0173

Saturn 82583-11-22 21:22 G 31884207.25 31884207.39 31884207.52 0.0264 0.0068

Saturn 82584-02-19 08:10 G 31884295.71 31884295.84 31884295.98 0.0265 0.0039

Saturn 82584-05-17 19:27 G 31884384.19 31884384.31 31884384.43 0.0265 0.0145

Saturn 82584-08-14 06:29 G 31884472.75 31884472.77 31884472.82 0.0265 0.0255

Mars 82586-01-19 12:00 G 31884995.89 31884996.00 31884996.12 0.1642 0.0164

Mars 82586-11-30 03:51 G 31885310.51 31885310.66 31885310.82 0.1890 0.0532

Jupiter 82587-04-07 02:39 G 31885438.51 31885438.61 31885438.72 0.0505 0.0294

Jupiter 82587-07-05 09:36 G 31885527.81 31885527.90 31885527.99 0.0502 0.0377

Mars 82587-12-25 17:17 G 31885701.22 31885701.22 31885701.22 0.1660 0.1659

Pluto 82590-05-28 03:08 G 31886585.62 31886585.63 31886585.67 0.0082 0.0081

Pluto 82590-08-24 04:48 G 31886673.61 31886673.70 31886673.81 0.0082 0.0060

Pluto 82590-11-20 06:29 G 31886761.64 31886761.77 31886761.90 0.0081 0.0039

Earth 82591-01-13 01:56 G 31886815.46 31886815.58 31886815.70 0.2708 0.1388

Moon 82591-01-13 03:08 G 31886815.50 31886815.63 31886815.75 0.2706 0.1196 *

Pluto 82591-02-16 07:56 G 31886849.69 31886849.83 31886849.98 0.0081 0.0018

Pluto 82591-05-15 09:36 G 31886937.75 31886937.90 31886938.04 0.0081 0.0003

Pluto 82591-08-11 10:48 G 31887025.81 31887025.95 31887026.10 0.0081 0.0023

Pluto 82591-11-07 12:15 G 31887113.89 31887114.01 31887114.14 0.0081 0.0043

Pluto 82592-02-03 13:41 G 31887201.99 31887202.07 31887202.17 0.0081 0.0064

Earth 82593-07-14 07:27 G 31887728.69 31887728.81 31887728.92 0.2624 0.0840

Moon 82593-07-14 07:56 G 31887728.72 31887728.83 31887728.95 0.2620 0.0757 *

Jupiter 82593-09-03 16:48 G 31887780.04 31887780.20 31887780.36 0.0523 0.0163

Mars 82595-06-11 23:03 G 31888426.35 31888426.46 31888426.57 0.1638 0.0574

Venus 82595-09-10 02:39 G 31888516.60 31888516.61 31888516.62 0.3634 0.3609

Mars 82596-04-20 22:48 G 31888740.39 31888740.45 31888740.52 0.1896 0.1750

Mars 82597-05-17 03:51 G 31889131.57 31889131.66 31889131.74 0.1655 0.1201

Saturn 82598-06-28 04:34 G 31889538.54 31889538.69 31889538.85 0.0297 0.0127

Saturn 82598-09-25 03:08 G 31889627.47 31889627.63 31889627.80 0.0297 0.0066

Saturn 82598-12-23 01:12 G 31889716.46 31889716.55 31889716.64 0.0296 0.0251

Jupiter 82599-01-24 06:44 G 31889748.73 31889748.78 31889748.84 0.0506 0.0458

Jupiter 82599-04-23 13:27 G 31889837.94 31889838.06 31889838.19 0.0504 0.0212

Venus 82601-03-26 18:29 G 31890540.17 31890540.27 31890540.37 0.3635 0.1201

Earth 82604-01-17 03:36 G 31891566.52 31891566.65 31891566.78 0.2708 0.0678

Moon 82604-01-17 04:05 G 31891566.54 31891566.67 31891566.81 0.2702 0.0729 *

Mars 82604-11-02 10:20 G 31891856.83 31891856.93 31891857.02 0.1634 0.0980

Venus 82605-03-26 06:44 G 31892000.63 31892000.78 31892000.92 0.3737 0.0212

Jupiter 82605-06-23 14:39 G 31892089.94 31892090.11 31892090.28 0.0522 0.0084

Uranus 82606-03-14 02:10 G 31892353.52 31892353.59 31892353.66 0.0134 0.0123

Uranus 82606-06-10 08:10 G 31892441.73 31892441.84 31892441.97 0.0134 0.0098

Moon 82606-07-18 02:39 G 31892479.49 31892479.61 31892479.73 0.2618 0.0485

Earth 82606-07-18 02:53 G 31892479.50 31892479.62 31892479.74 0.2624 0.0493 *

Uranus 82606-09-06 14:10 G 31892529.95 31892530.09 31892530.25 0.0134 0.0074

Mars 82606-10-08 14:24 G 31892561.99 31892562.10 31892562.20 0.1650 0.0755

Venus 82606-10-10 10:34 G 31892563.84 31892563.94 31892564.04 0.3635 0.1292

Uranus 82606-12-03 20:10 G 31892618.18 31892618.34 31892618.51 0.0134 0.0050

Uranus 82607-03-02 02:10 G 31892706.42 31892706.59 31892706.77 0.0134 0.0027

Uranus 82607-05-29 08:10 G 31892794.67 31892794.84 31892795.02 0.0134 0.0003

Uranus 82607-08-25 13:56 G 31892882.91 31892883.08 31892883.26 0.0134 0.0021

Uranus 82607-11-21 19:41 G 31892971.16 31892971.32 31892971.49 0.0134 0.0045

Uranus 82608-02-18 01:41 G 31893059.42 31893059.57 31893059.72 0.0134 0.0068

Uranus 82608-05-16 07:27 G 31893147.68 31893147.81 31893147.93 0.0134 0.0091

Uranus 82608-08-12 12:58 G 31893235.95 31893236.04 31893236.13 0.0134 0.0114

Jupiter 82611-02-10 17:32 G 31894148.10 31894148.23 31894148.37 0.0504 0.0048

Saturn 82613-01-13 13:56 G 31894850.99 31894851.08 31894851.17 0.0264 0.0195

Saturn 82613-04-12 00:29 G 31894939.40 31894939.52 31894939.66 0.0264 0.0093

Saturn 82613-07-09 11:32 G 31895027.84 31895027.98 31895028.12 0.0264 0.0013

Saturn 82613-10-05 22:34 G 31895116.32 31895116.44 31895116.57 0.0264 0.0120

Saturn 82614-01-02 09:51 G 31895204.84 31895204.91 31895204.98 0.0264 0.0229

Mars 82614-03-25 21:22 G 31895287.33 31895287.39 31895287.46 0.1630 0.1380

Mars 82616-02-29 01:12 G 31895992.43 31895992.55 31895992.66 0.1646 0.0319

Mars 82617-01-09 09:36 G 31896307.75 31896307.90 31896308.05 0.1884 0.0765

Moon 82617-01-19 04:20 G 31896317.64 31896317.68 31896317.72 0.2702 0.2571

Earth 82617-01-19 04:48 G 31896317.68 31896317.70 31896317.72 0.2708 0.2660 *

Jupiter 82617-04-11 12:15 G 31896399.89 31896400.01 31896400.15 0.0522 0.0332

Moon 82619-07-20 21:51 G 31897230.32 31897230.41 31897230.50 0.2621 0.1739

Earth 82619-07-20 22:34 G 31897230.36 31897230.44 31897230.52 0.2624 0.1861 *

Jupiter 82622-11-29 21:36 G 31898458.27 31898458.40 31898458.53 0.0505 0.0117

Mars 82625-07-21 12:00 G 31899422.89 31899423.00 31899423.12 0.1642 0.0120

Mars 82626-06-01 05:03 G 31899737.55 31899737.71 31899737.86 0.1890 0.0424

Earth 82626-07-13 17:03 G 31899780.13 31899780.21 31899780.29 0.2625 0.1886

Moon 82626-07-13 18:00 G 31899780.16 31899780.25 31899780.34 0.2622 0.1721 *

Saturn 82627-11-16 02:53 G 31900270.49 31900270.62 31900270.76 0.0296 0.0187

Saturn 82628-02-13 01:41 G 31900359.39 31900359.57 31900359.74 0.0296 0.0007

Saturn 82628-05-11 23:46 G 31900448.36 31900448.49 31900448.62 0.0296 0.0193

Jupiter 82629-04-28 16:20 G 31900800.08 31900800.18 31900800.29 0.0524 0.0405

Jupiter 82634-09-18 00:58 G 31902768.44 31902768.54 31902768.66 0.0505 0.0293

Mars 82634-12-11 23:03 G 31902853.35 31902853.46 31902853.57 0.1638 0.0528

Jupiter 82634-12-16 07:56 G 31902857.74 31902857.83 31902857.92 0.0502 0.0378

Mars 82635-10-21 23:17 G 31903167.39 31903167.47 31903167.54 0.1896 0.1675

Neptune 82636-01-25 02:53 G 31903262.58 31903262.62 31903262.69 0.0090 0.0085

Neptune 82636-04-22 05:46 G 31903350.66 31903350.74 31903350.85 0.0090 0.0075

Neptune 82636-07-19 08:53 G 31903438.76 31903438.87 31903439.00 0.0090 0.0065

Neptune 82636-10-15 11:46 G 31903526.86 31903526.99 31903527.14 0.0090 0.0055

Mars 82636-11-16 03:51 G 31903558.58 31903558.66 31903558.73 0.1655 0.1249

Neptune 82637-01-11 14:39 G 31903614.97 31903615.11 31903615.28 0.0090 0.0045

Earth 82637-01-14 07:56 G 31903617.70 31903617.83 31903617.95 0.2708 0.1002

Moon 82637-01-14 08:53 G 31903617.74 31903617.87 31903618.00 0.2704 0.0962 *

Neptune 82637-04-09 17:46 G 31903703.08 31903703.24 31903703.41 0.0090 0.0035

Neptune 82637-07-06 20:39 G 31903791.20 31903791.36 31903791.54 0.0090 0.0025

Neptune 82637-10-02 23:46 G 31903879.32 31903879.49 31903879.66 0.0090 0.0015

Neptune 82637-12-30 02:39 G 31903967.43 31903967.61 31903967.78 0.0090 0.0005

Neptune 82638-03-28 05:32 G 31904055.55 31904055.73 31904055.90 0.0090 0.0005

Neptune 82638-06-24 08:10 G 31904143.67 31904143.84 31904144.02 0.0090 0.0015

Neptune 82638-09-20 11:03 G 31904231.80 31904231.96 31904232.13 0.0090 0.0025

Neptune 82638-12-17 13:41 G 31904319.92 31904320.07 31904320.24 0.0090 0.0035

Neptune 82639-03-15 16:48 G 31904408.05 31904408.20 31904408.35 0.0090 0.0044

Neptune 82639-06-11 19:27 G 31904496.18 31904496.31 31904496.45 0.0090 0.0054

Earth 82639-07-16 12:29 G 31904530.90 31904531.02 31904531.13 0.2625 0.0580

Moon 82639-07-16 12:44 G 31904530.92 31904531.03 31904531.15 0.2619 0.0574 *

Neptune 82639-09-07 22:05 G 31904584.31 31904584.42 31904584.55 0.0090 0.0064

Neptune 82639-12-05 00:58 G 31904672.45 31904672.54 31904672.65 0.0090 0.0073

Neptune 82640-03-02 03:36 G 31904760.60 31904760.65 31904760.73 0.0090 0.0083

Jupiter 82641-02-14 14:53 G 31905109.97 31905110.12 31905110.28 0.0524 0.0171

Saturn 82642-06-02 16:34 G 31905583.12 31905583.19 31905583.27 0.0265 0.0224

Saturn 82642-08-30 03:22 G 31905671.52 31905671.64 31905671.76 0.0265 0.0120

Saturn 82642-11-26 14:10 G 31905759.95 31905760.09 31905760.23 0.0265 0.0016

Saturn 82643-02-23 01:12 G 31905848.42 31905848.55 31905848.68 0.0265 0.0092

Saturn 82643-05-22 12:29 G 31905936.93 31905937.02 31905937.11 0.0265 0.0200

Mars 82644-05-03 10:05 G 31906283.83 31906283.92 31906284.02 0.1634 0.0938

Mars 82646-04-08 14:24 G 31906988.99 31906989.10 31906989.20 0.1650 0.0799

Jupiter 82646-07-07 05:03 G 31907078.66 31907078.71 31907078.76 0.0506 0.0461

Jupiter 82646-10-04 11:32 G 31907167.86 31907167.98 31907168.11 0.0503 0.0207

Uranus 82647-09-20 05:46 G 31907518.72 31907518.74 31907518.78 0.0144 0.0139

Uranus 82647-12-17 09:51 G 31907606.84 31907606.91 31907607.00 0.0144 0.0117

Uranus 82648-03-14 13:56 G 31907694.98 31907695.08 31907695.19 0.0144 0.0094

Uranus 82648-06-10 18:15 G 31907783.14 31907783.26 31907783.38 0.0144 0.0071

Uranus 82648-09-06 22:20 G 31907871.30 31907871.43 31907871.57 0.0144 0.0048

Uranus 82648-12-04 02:39 G 31907959.47 31907959.61 31907959.75 0.0144 0.0024

Uranus 82649-03-02 06:44 G 31908047.64 31908047.78 31908047.93 0.0144 0.0004

Uranus 82649-05-29 11:03 G 31908135.82 31908135.96 31908136.10 0.0144 0.0022

Uranus 82649-08-25 15:22 G 31908224.00 31908224.14 31908224.27 0.0144 0.0046

Uranus 82649-11-21 19:27 G 31908312.19 31908312.31 31908312.44 0.0144 0.0070

Earth 82650-01-17 09:22 G 31908368.77 31908368.89 31908369.02 0.2708 0.1055

Moon 82650-01-17 09:51 G 31908368.78 31908368.91 31908369.04 0.2702 0.1131 *

Uranus 82650-02-17 23:46 G 31908400.39 31908400.49 31908400.61 0.0144 0.0094

Uranus 82650-05-17 04:05 G 31908488.60 31908488.67 31908488.76 0.0144 0.0118

Uranus 82650-08-13 08:24 G 31908576.84 31908576.85 31908576.88 0.0144 0.0142

Venus 82652-04-17 00:00 G 31909189.43 31909189.50 31909189.57 0.3634 0.2721

Moon 82652-07-18 07:56 G 31909281.71 31909281.83 31909281.94 0.2618 0.0754

Earth 82652-07-18 07:56 G 31909281.72 31909281.83 31909281.95 0.2624 0.0769 *

Jupiter 82652-12-03 12:15 G 31909419.85 31909420.01 31909420.18 0.0522 0.0087

Mars 82653-09-23 21:22 G 31909714.33 31909714.39 31909714.46 0.1630 0.1335

Mars 82655-08-30 00:58 G 31910419.43 31910419.54 31910419.66 0.1646 0.0364

Mars 82656-07-10 10:34 G 31910734.80 31910734.94 31910735.08 0.1884 0.0866

Saturn 82657-04-04 04:20 G 31911002.57 31911002.68 31911002.80 0.0297 0.0222

Saturn 82657-07-02 03:22 G 31911091.46 31911091.64 31911091.81 0.0297 0.0029

Saturn 82657-09-29 01:27 G 31911180.42 31911180.56 31911180.71 0.0297 0.0161

Venus 82657-10-31 16:05 G 31911213.06 31911213.17 31911213.28 0.3635 0.0276

Jupiter 82658-07-23 15:36 G 31911478.01 31911478.15 31911478.28 0.0504 0.0043

Venus 82661-10-31 07:27 G 31912673.69 31912673.81 31912673.93 0.3737 0.2037

Venus 82663-05-17 08:10 G 31913236.76 31913236.84 31913236.92 0.3635 0.2218

Jupiter 82664-09-21 10:05 G 31913729.79 31913729.92 31913730.05 0.0521 0.0334

Mars 82665-01-19 12:00 G 31913849.88 31913850.00 31913850.12 0.1642 0.0069

Moon 82665-07-21 02:53 G 31914032.55 31914032.62 31914032.70 0.2622 0.2056

Earth 82665-07-21 03:36 G 31914032.59 31914032.65 31914032.72 0.2624 0.2141 *

Mars 82665-11-30 05:32 G 31914164.57 31914164.73 31914164.89 0.1890 0.0329

Moon 82670-01-12 13:12 G 31915669.02 31915669.05 31915669.07 0.2709 0.2663

Jupiter 82670-05-11 19:27 G 31915788.18 31915788.31 31915788.45 0.0505 0.0126

Saturn 82671-10-20 20:10 G 31916315.29 31916315.34 31916315.39 0.0264 0.0244

Saturn 82672-01-17 06:44 G 31916403.67 31916403.78 31916403.90 0.0264 0.0142

Saturn 82672-04-14 17:46 G 31916492.10 31916492.24 31916492.38 0.0264 0.0037

Saturn 82672-07-12 04:48 G 31916580.56 31916580.70 31916580.83 0.0264 0.0070

Earth 82672-07-13 22:05 G 31916582.33 31916582.42 31916582.51 0.2625 0.1628

Moon 82672-07-13 23:03 G 31916582.36 31916582.46 31916582.55 0.2622 0.1606 *

Saturn 82672-10-08 15:51 G 31916669.06 31916669.16 31916669.26 0.0264 0.0177

Mars 82674-06-11 23:03 G 31917280.35 31917280.46 31917280.57 0.1638 0.0482

Mars 82675-04-22 00:15 G 31917594.42 31917594.51 31917594.60 0.1896 0.1563

Mars 82676-05-17 03:51 G 31917985.58 31917985.66 31917985.73 0.1655 0.1295

Jupiter 82676-10-08 13:12 G 31918129.94 31918130.05 31918130.16 0.0524 0.0385

Jupiter 82682-02-27 23:32 G 31920098.38 31920098.48 31920098.60 0.0506 0.0289

Jupiter 82682-05-28 06:29 G 31920187.69 31920187.77 31920187.86 0.0503 0.0384

Earth 82683-01-15 13:41 G 31920419.94 31920420.07 31920420.21 0.2708 0.0606

Moon 82683-01-15 14:39 G 31920419.97 31920420.11 31920420.25 0.2703 0.0395 *

Mars 82683-11-02 10:05 G 31920710.82 31920710.92 31920711.02 0.1634 0.0891

Earth 82685-07-16 17:32 G 31921333.11 31921333.23 31921333.35 0.2624 0.0317

Moon 82685-07-16 17:46 G 31921333.12 31921333.24 31921333.36 0.2618 0.0234 *

Mars 82685-10-07 14:24 G 31921416.00 31921416.10 31921416.20 0.1650 0.0846

Saturn 82686-08-22 03:08 G 31921734.57 31921734.63 31921734.69 0.0296 0.0278

Saturn 82686-11-19 02:10 G 31921823.42 31921823.59 31921823.75 0.0296 0.0084

Saturn 82687-02-16 00:29 G 31921912.36 31921912.52 31921912.68 0.0296 0.0106

Saturn 82687-05-15 22:20 G 31922001.40 31922001.43 31922001.46 0.0296 0.0291

Jupiter 82688-07-27 12:00 G 31922439.84 31922440.00 31922440.16 0.0523 0.0155

Uranus 82690-04-03 09:08 G 31923054.80 31923054.88 31923054.97 0.0134 0.0116

Uranus 82690-06-30 15:08 G 31923143.01 31923143.13 31923143.27 0.0134 0.0092

Uranus 82690-09-26 21:08 G 31923231.24 31923231.38 31923231.54 0.0134 0.0068

Uranus 82690-12-24 03:08 G 31923319.47 31923319.63 31923319.80 0.0134 0.0044

Uranus 82691-03-22 09:08 G 31923407.71 31923407.88 31923408.06 0.0134 0.0020

Uranus 82691-06-18 15:08 G 31923495.95 31923496.13 31923496.31 0.0134 0.0004

Uranus 82691-09-14 20:53 G 31923584.20 31923584.37 31923584.54 0.0134 0.0028

Uranus 82691-12-12 02:39 G 31923672.45 31923672.61 31923672.78 0.0134 0.0051

Uranus 82692-03-09 08:24 G 31923760.71 31923760.85 31923761.00 0.0134 0.0074

Uranus 82692-06-05 13:56 G 31923848.97 31923849.08 31923849.21 0.0134 0.0098

Uranus 82692-09-01 19:41 G 31923937.25 31923937.32 31923937.40 0.0134 0.0120

Mars 82693-03-24 21:22 G 31924141.32 31924141.39 31924141.46 0.1630 0.1291

Jupiter 82693-12-17 03:22 G 31924408.59 31924408.64 31924408.69 0.0506 0.0460

Jupiter 82694-03-16 09:51 G 31924497.79 31924497.91 31924498.04 0.0503 0.0208

Mars 82695-02-28 00:58 G 31924846.43 31924846.54 31924846.66 0.1646 0.0412

Mars 82696-01-09 11:03 G 31925161.82 31925161.96 31925162.10 0.1884 0.0945

Moon 82696-01-18 15:22 G 31925171.02 31925171.14 31925171.26 0.2702 0.1395

Earth 82696-01-18 15:22 G 31925171.02 31925171.14 31925171.25 0.2708 0.1438 *

Moon 82698-07-19 12:44 G 31926083.92 31926084.03 31926084.15 0.2618 0.0969

Earth 82698-07-19 12:58 G 31926083.93 31926084.04 31926084.16 0.2624 0.1037 *

Jupiter 82700-05-16 10:20 G 31926749.76 31926749.93 31926750.10 0.0523 0.0083

Saturn 82701-06-06 09:22 G 31927135.79 31927135.89 31927136.00 0.0265 0.0172

Saturn 82701-09-02 20:10 G 31927224.21 31927224.34 31927224.48 0.0265 0.0068

Saturn 82701-11-30 07:12 G 31927312.66 31927312.80 31927312.94 0.0265 0.0039

Saturn 82702-02-26 18:15 G 31927401.15 31927401.26 31927401.38 0.0265 0.0147

Saturn 82702-05-26 05:32 G 31927489.70 31927489.73 31927489.77 0.0265 0.0256

Mars 82704-07-21 12:00 G 31928276.88 31928277.00 31928277.12 0.1642 0.0023

Mars 82705-06-01 06:15 G 31928591.60 31928591.76 31928591.92 0.1890 0.0239

Moon 82705-07-13 08:53 G 31928633.86 31928633.87 31928633.88 0.2625 0.2606

Jupiter 82706-01-03 13:41 G 31928807.93 31928808.07 31928808.20 0.0504 0.0037

Venus 82708-11-22 21:36 G 31929862.31 31929862.40 31929862.49 0.3634 0.1810

Moon 82711-07-23 07:56 G 31930834.78 31930834.83 31930834.89 0.2622 0.2311

Earth 82711-07-23 08:53 G 31930834.82 31930834.87 31930834.91 0.2624 0.2417 *

Jupiter 82712-03-04 07:41 G 31931059.69 31931059.82 31931059.95 0.0521 0.0336

Venus 82712-11-22 03:22 G 31931322.53 31931322.64 31931322.75 0.3738 0.2390

Mars 82713-12-11 23:03 G 31931707.34 31931707.46 31931707.57 0.1638 0.0443

Venus 82714-06-08 13:41 G 31931885.96 31931886.07 31931886.17 0.3634 0.0653

Mars 82714-10-22 01:12 G 31932021.44 31932021.55 31932021.65 0.1896 0.1459

Mars 82715-11-17 03:36 G 31932412.58 31932412.65 31932412.72 0.1655 0.1334

Earth 82716-01-14 17:46 G 31932471.17 31932471.24 31932471.31 0.2708 0.2321

Moon 82716-01-14 18:58 G 31932471.20 31932471.29 31932471.38 0.2707 0.2097 *

Saturn 82716-04-08 03:36 G 31932555.49 31932555.65 31932555.81 0.0297 0.0119

Saturn 82716-07-06 02:10 G 31932644.42 31932644.59 31932644.76 0.0297 0.0072

Saturn 82716-10-03 00:00 G 31932733.42 31932733.50 31932733.59 0.0296 0.0259

Jupiter 82717-10-22 17:32 G 31933118.10 31933118.23 31933118.36 0.0505 0.0133

Neptune 82717-10-22 21:22 G 31933118.37 31933118.39 31933118.43 0.0088 0.0086

Neptune 82718-01-18 22:48 G 31933206.40 31933206.45 31933206.52 0.0088 0.0079

Neptune 82718-04-17 00:29 G 31933294.45 31933294.52 31933294.61 0.0088 0.0071

Neptune 82718-07-14 01:56 G 31933382.50 31933382.58 31933382.69 0.0088 0.0064

Earth 82718-07-16 03:08 G 31933384.53 31933384.63 31933384.73 0.2624 0.1376

Moon 82718-07-16 03:51 G 31933384.55 31933384.66 31933384.77 0.2621 0.1224 *

Neptune 82718-10-10 03:22 G 31933470.55 31933470.64 31933470.77 0.0088 0.0057

Neptune 82719-01-06 05:17 G 31933558.60 31933558.72 31933558.84 0.0088 0.0049

Neptune 82719-04-04 06:44 G 31933646.66 31933646.78 31933646.91 0.0088 0.0042

Neptune 82719-07-01 08:24 G 31933734.72 31933734.85 31933734.98 0.0088 0.0034

Neptune 82719-09-27 09:51 G 31933822.78 31933822.91 31933823.05 0.0088 0.0027

Venus 82719-12-23 05:46 G 31933909.69 31933909.74 31933909.79 0.3635 0.3159

Neptune 82719-12-24 11:32 G 31933910.85 31933910.98 31933911.12 0.0088 0.0019

Neptune 82720-03-21 13:12 G 31933998.91 31933999.05 31933999.19 0.0088 0.0011

Neptune 82720-06-17 14:53 G 31934086.97 31934087.12 31934087.26 0.0088 0.0004

Neptune 82720-09-13 16:20 G 31934175.04 31934175.18 31934175.33 0.0088 0.0004

Neptune 82720-12-10 18:00 G 31934263.11 31934263.25 31934263.39 0.0088 0.0011

Neptune 82721-03-08 19:41 G 31934351.18 31934351.32 31934351.46 0.0088 0.0019

Neptune 82721-06-04 21:08 G 31934439.25 31934439.38 31934439.52 0.0088 0.0027

Neptune 82721-08-31 22:34 G 31934527.32 31934527.44 31934527.59 0.0088 0.0035

Neptune 82721-11-28 00:29 G 31934615.39 31934615.52 31934615.65 0.0088 0.0042

Neptune 82722-02-24 01:56 G 31934703.47 31934703.58 31934703.71 0.0088 0.0050

Neptune 82722-05-23 03:22 G 31934791.55 31934791.64 31934791.77 0.0088 0.0058

Neptune 82722-08-19 05:17 G 31934879.63 31934879.72 31934879.82 0.0088 0.0065

Neptune 82722-11-15 06:44 G 31934967.72 31934967.78 31934967.87 0.0088 0.0073

Neptune 82723-02-11 08:24 G 31935055.81 31935055.85 31935055.92 0.0088 0.0081

Mars 82723-05-04 10:05 G 31935137.82 31935137.92 31935138.02 0.1634 0.0845

Jupiter 82724-03-21 10:48 G 31935459.84 31935459.95 31935460.07 0.0524 0.0383

Mars 82725-04-08 14:24 G 31935843.00 31935843.10 31935843.20 0.1650 0.0891

Earth 82729-01-16 19:41 G 31937222.18 31937222.32 31937222.46 0.2708 0.0210

Moon 82729-01-16 20:39 G 31937222.22 31937222.36 31937222.50 0.2703 0.0202 *

Jupiter 82729-08-10 21:36 G 31937428.29 31937428.40 31937428.50 0.0506 0.0297

Jupiter 82729-11-08 04:20 G 31937517.60 31937517.68 31937517.77 0.0503 0.0377

Saturn 82730-10-24 12:58 G 31937867.96 31937868.04 31937868.14 0.0264 0.0192

Saturn 82731-01-21 00:00 G 31937956.37 31937956.50 31937956.63 0.0264 0.0088

Saturn 82731-04-19 10:48 G 31938044.81 31938044.95 31938045.09 0.0264 0.0017

Saturn 82731-07-16 21:51 G 31938133.29 31938133.41 31938133.53 0.0264 0.0124

Earth 82731-07-18 22:34 G 31938135.32 31938135.44 31938135.56 0.2624 0.0053

Moon 82731-07-18 22:48 G 31938135.33 31938135.45 31938135.57 0.2618 0.0116 *

Uranus 82731-10-11 12:29 G 31938219.99 31938220.02 31938220.08 0.0144 0.0135

Saturn 82731-10-13 08:53 G 31938221.82 31938221.87 31938221.95 0.0264 0.0234

Uranus 82732-01-07 16:48 G 31938308.12 31938308.20 31938308.29 0.0144 0.0112

Uranus 82732-04-04 20:53 G 31938396.27 31938396.37 31938396.48 0.0144 0.0089

Uranus 82732-07-02 01:12 G 31938484.42 31938484.55 31938484.67 0.0144 0.0066

Mars 82732-09-23 21:22 G 31938568.31 31938568.39 31938568.46 0.1630 0.1245

Uranus 82732-09-28 05:17 G 31938572.59 31938572.72 31938572.85 0.0144 0.0043

Uranus 82732-12-25 09:22 G 31938660.76 31938660.89 31938661.03 0.0144 0.0020

Uranus 82733-03-23 13:41 G 31938748.93 31938749.07 31938749.21 0.0144 0.0004

Uranus 82733-06-19 18:00 G 31938837.11 31938837.25 31938837.39 0.0144 0.0027

Uranus 82733-09-15 22:05 G 31938925.29 31938925.42 31938925.56 0.0144 0.0051

Uranus 82733-12-13 02:24 G 31939013.48 31939013.60 31939013.73 0.0144 0.0074

Uranus 82734-03-11 06:29 G 31939101.68 31939101.77 31939101.89 0.0144 0.0099

Uranus 82734-06-07 10:48 G 31939189.89 31939189.95 31939190.04 0.0144 0.0123

Mars 82734-08-30 01:12 G 31939273.43 31939273.55 31939273.66 0.1646 0.0457

Mars 82735-07-11 11:46 G 31939588.86 31939588.99 31939589.12 0.1884 0.1039

Jupiter 82736-01-08 08:53 G 31939769.70 31939769.87 31939770.03 0.0523 0.0137

Jupiter 82741-05-30 01:41 G 31941738.52 31941738.57 31941738.63 0.0507 0.0458

Jupiter 82741-08-27 08:24 G 31941827.73 31941827.85 31941827.97 0.0504 0.0211

Moon 82742-01-19 20:53 G 31941973.28 31941973.37 31941973.47 0.2702 0.1879

Earth 82742-01-19 21:08 G 31941973.28 31941973.38 31941973.48 0.2709 0.1818 *

Mars 82744-01-20 12:00 G 31942703.88 31942704.00 31942704.12 0.1642 0.0029

Moon 82744-07-20 17:46 G 31942886.13 31942886.24 31942886.34 0.2619 0.1295

Earth 82744-07-20 18:15 G 31942886.15 31942886.26 31942886.36 0.2624 0.1305 *

Mars 82744-11-30 06:58 G 31943018.63 31943018.79 31943018.96 0.1890 0.0148

Saturn 82745-08-26 02:10 G 31943287.45 31943287.59 31943287.74 0.0296 0.0176

Saturn 82745-11-23 00:58 G 31943376.37 31943376.54 31943376.71 0.0296 0.0017

Saturn 82746-02-19 23:03 G 31943465.34 31943465.46 31943465.59 0.0296 0.0204

Pluto 82747-08-04 19:56 G 31943996.26 31943996.33 31943996.43 0.0062 0.0053

Jupiter 82747-10-27 07:27 G 31944079.64 31944079.81 31944079.97 0.0523 0.0098

Pluto 82747-10-31 20:39 G 31944084.26 31944084.36 31944084.51 0.0062 0.0044

Pluto 82748-01-27 21:51 G 31944172.28 31944172.41 31944172.57 0.0062 0.0033

Pluto 82748-04-24 23:03 G 31944260.30 31944260.46 31944260.62 0.0062 0.0022

Pluto 82748-07-22 00:00 G 31944348.34 31944348.50 31944348.67 0.0062 0.0011

Pluto 82748-10-18 00:58 G 31944436.37 31944436.54 31944436.71 0.0062 0.0001

Pluto 82749-01-14 01:56 G 31944524.41 31944524.58 31944524.75 0.0063 0.0010

Pluto 82749-04-12 02:39 G 31944612.46 31944612.61 31944612.78 0.0063 0.0021

Pluto 82749-07-09 03:51 G 31944700.51 31944700.66 31944700.81 0.0063 0.0031

Pluto 82749-10-05 04:34 G 31944788.58 31944788.69 31944788.82 0.0063 0.0042

Pluto 82750-01-01 05:17 G 31944876.65 31944876.72 31944876.83 0.0063 0.0053

Earth 82751-07-14 12:58 G 31945436.00 31945436.04 31945436.08 0.2625 0.2408

Moon 82751-07-14 13:56 G 31945436.02 31945436.08 31945436.13 0.2625 0.2274 *

Mars 82753-06-11 23:03 G 31946134.34 31946134.46 31946134.57 0.1638 0.0394

Jupiter 82753-06-15 12:00 G 31946137.87 31946138.00 31946138.14 0.0504 0.0038

Mars 82754-04-22 01:27 G 31946448.45 31946448.56 31946448.68 0.1896 0.1377

Mars 82755-05-18 03:36 G 31946839.59 31946839.65 31946839.72 0.1655 0.1384

Moon 82757-07-23 12:58 G 31947637.02 31947637.04 31947637.06 0.2622 0.2569

Jupiter 82759-08-15 05:32 G 31948389.60 31948389.73 31948389.86 0.0522 0.0336

Venus 82759-12-15 03:08 G 31948511.59 31948511.63 31948511.67 0.3633 0.3314

Saturn 82760-03-12 15:36 G 31948600.08 31948600.15 31948600.22 0.0265 0.0223

Saturn 82760-06-09 02:24 G 31948688.47 31948688.60 31948688.72 0.0265 0.0120

Saturn 82760-09-05 13:12 G 31948776.91 31948777.05 31948777.19 0.0265 0.0015

Saturn 82760-12-03 00:15 G 31948865.38 31948865.51 31948865.64 0.0265 0.0092

Saturn 82761-03-01 11:17 G 31948953.89 31948953.97 31948954.07 0.0265 0.0201

Earth 82762-01-14 23:46 G 31949273.39 31949273.49 31949273.58 0.2708 0.1921

Moon 82762-01-15 00:58 G 31949273.44 31949273.54 31949273.64 0.2705 0.1822 *

Mars 82762-11-02 10:05 G 31949564.82 31949564.92 31949565.02 0.1634 0.0805

Earth 82764-07-16 08:10 G 31950186.73 31950186.84 31950186.95 0.2624 0.1115

Moon 82764-07-16 08:53 G 31950186.76 31950186.87 31950186.97 0.2620 0.1103 *

Mars 82764-10-07 14:24 G 31950270.00 31950270.10 31950270.19 0.1650 0.0935

Jupiter 82765-04-03 15:51 G 31950448.03 31950448.16 31950448.29 0.0505 0.0131

Venus 82765-06-29 19:12 G 31950535.20 31950535.30 31950535.40 0.3634 0.0892

Venus 82769-06-29 04:20 G 31951995.54 31951995.68 31951995.83 0.3738 0.0126

Venus 82771-01-13 11:17 G 31952558.87 31952558.97 31952559.06 0.3635 0.1588

Jupiter 82771-09-01 08:39 G 31952789.75 31952789.86 31952789.97 0.0524 0.0382

Mars 82772-03-24 21:22 G 31952995.31 31952995.39 31952995.47 0.1630 0.1202

Uranus 82774-01-26 09:51 G 31953667.90 31953667.91 31953667.93 0.0134 0.0134

Mars 82774-02-28 00:58 G 31953700.43 31953700.54 31953700.65 0.1646 0.0492

Uranus 82774-04-24 15:51 G 31953756.07 31953756.16 31953756.27 0.0134 0.0110

Uranus 82774-07-21 21:51 G 31953844.29 31953844.41 31953844.56 0.0134 0.0086

Uranus 82774-10-18 04:05 G 31953932.52 31953932.67 31953932.83 0.0134 0.0061

Mars 82775-01-09 12:44 G 31954015.90 31954016.03 31954016.15 0.1884 0.1137

Saturn 82775-01-13 03:08 G 31954019.52 31954019.63 31954019.75 0.0297 0.0216

Uranus 82775-01-14 10:05 G 31954020.75 31954020.92 31954021.09 0.0134 0.0037

Earth 82775-01-18 01:27 G 31954024.43 31954024.56 31954024.70 0.2708 0.0197

Moon 82775-01-18 02:24 G 31954024.46 31954024.60 31954024.73 0.2703 0.0362 *

Saturn 82775-04-12 02:10 G 31954108.41 31954108.59 31954108.76 0.0297 0.0022

Uranus 82775-04-12 16:05 G 31954108.99 31954109.17 31954109.34 0.0134 0.0013

Uranus 82775-07-09 21:51 G 31954197.24 31954197.41 31954197.59 0.0134 0.0011

Saturn 82775-07-10 00:15 G 31954197.37 31954197.51 31954197.66 0.0297 0.0168 *

Uranus 82775-10-06 03:36 G 31954285.49 31954285.65 31954285.83 0.0134 0.0034

Uranus 82776-01-02 09:22 G 31954373.74 31954373.89 31954374.06 0.0134 0.0057

Uranus 82776-03-30 15:08 G 31954462.00 31954462.13 31954462.28 0.0134 0.0080

Uranus 82776-06-26 20:39 G 31954550.27 31954550.36 31954550.48 0.0134 0.0104

Uranus 82776-09-23 02:24 G 31954638.55 31954638.60 31954638.67 0.0134 0.0126

Jupiter 82777-01-20 19:41 G 31954758.21 31954758.32 31954758.42 0.0506 0.0302

Jupiter 82777-04-20 02:24 G 31954847.51 31954847.60 31954847.69 0.0503 0.0371

Earth 82777-07-19 03:36 G 31954937.53 31954937.65 31954937.77 0.2624 0.0218

Moon 82777-07-19 03:51 G 31954937.54 31954937.66 31954937.78 0.2618 0.0300 *

Mars 82781-08-15 08:39 G 31956425.84 31956425.86 31956425.88 0.1627 0.1593

Jupiter 82783-06-20 06:44 G 31957099.62 31957099.78 31957099.94 0.0523 0.0139

Mars 82783-07-21 12:00 G 31957130.88 31957131.00 31957131.12 0.1642 0.0072

Mars 82784-05-31 07:56 G 31957445.66 31957445.83 31957445.99 0.1890 0.0054

Moon 82788-01-21 02:39 G 31958775.53 31958775.61 31958775.70 0.2701 0.2065

Earth 82788-01-21 02:53 G 31958775.55 31958775.62 31958775.70 0.2708 0.2199 *

Jupiter 82788-11-08 23:46 G 31959068.44 31959068.49 31959068.54 0.0507 0.0465

Jupiter 82789-02-06 06:29 G 31959157.64 31959157.77 31959157.89 0.0504 0.0205

Saturn 82789-07-30 19:12 G 31959332.25 31959332.30 31959332.35 0.0264 0.0244

Saturn 82789-10-27 05:46 G 31959420.63 31959420.74 31959420.86 0.0264 0.0141

Saturn 82790-01-23 16:48 G 31959509.06 31959509.20 31959509.33 0.0264 0.0037

Saturn 82790-04-22 03:36 G 31959597.52 31959597.65 31959597.79 0.0264 0.0070

Saturn 82790-07-19 14:53 G 31959686.01 31959686.12 31959686.22 0.0264 0.0178

Moon 82790-07-21 22:34 G 31959688.34 31959688.44 31959688.54 0.2620 0.1427

Earth 82790-07-21 23:17 G 31959688.37 31959688.47 31959688.56 0.2624 0.1573 *

Mars 82792-12-10 23:03 G 31960561.34 31960561.46 31960561.57 0.1638 0.0353

Mars 82793-10-21 02:24 G 31960875.48 31960875.60 31960875.72 0.1896 0.1274

Mars 82794-11-16 03:36 G 31961266.60 31961266.65 31961266.71 0.1655 0.1429

Jupiter 82795-04-08 04:20 G 31961409.52 31961409.68 31961409.85 0.0522 0.0111

Earth 82797-07-14 18:00 G 31962238.18 31962238.25 31962238.31 0.2625 0.2157

Moon 82797-07-14 18:44 G 31962238.21 31962238.28 31962238.35 0.2625 0.2082 *

Neptune 82800-07-25 23:03 G 31963345.45 31963345.46 31963345.48 0.0090 0.0089

Neptune 82800-10-22 01:56 G 31963433.51 31963433.58 31963433.67 0.0090 0.0079

Jupiter 82800-11-25 10:34 G 31963467.80 31963467.94 31963468.07 0.0504 0.0043

Neptune 82801-01-18 04:48 G 31963521.60 31963521.70 31963521.82 0.0090 0.0069

Neptune 82801-04-16 07:56 G 31963609.70 31963609.83 31963609.97 0.0090 0.0059

Neptune 82801-07-13 10:48 G 31963697.81 31963697.95 31963698.11 0.0090 0.0049

Neptune 82801-10-09 13:41 G 31963785.92 31963786.07 31963786.24 0.0090 0.0039

Neptune 82802-01-05 16:48 G 31963874.04 31963874.20 31963874.37 0.0090 0.0029

Neptune 82802-04-03 19:41 G 31963962.15 31963962.32 31963962.50 0.0090 0.0019

Mars 82802-05-03 10:05 G 31963991.81 31963991.92 31963992.02 0.1634 0.0757

Neptune 82802-06-30 22:34 G 31964050.27 31964050.44 31964050.62 0.0090 0.0009

Neptune 82802-09-27 01:27 G 31964138.39 31964138.56 31964138.74 0.0090 0.0002

Neptune 82802-12-24 04:20 G 31964226.51 31964226.68 31964226.86 0.0090 0.0011

Neptune 82803-03-22 07:12 G 31964314.63 31964314.80 31964314.97 0.0090 0.0021

Neptune 82803-06-18 09:51 G 31964402.76 31964402.91 31964403.09 0.0090 0.0031

Neptune 82803-09-14 12:58 G 31964490.88 31964491.04 31964491.19 0.0090 0.0040

Neptune 82803-12-11 15:36 G 31964579.01 31964579.15 31964579.30 0.0090 0.0050

Neptune 82804-03-08 18:15 G 31964667.15 31964667.26 31964667.40 0.0090 0.0060

Mars 82804-04-07 14:10 G 31964697.00 31964697.09 31964697.19 0.1650 0.0981

Saturn 82804-06-01 01:56 G 31964751.52 31964751.58 31964751.66 0.0296 0.0272

Neptune 82804-06-04 21:22 G 31964755.28 31964755.39 31964755.50 0.0090 0.0069

Saturn 82804-08-29 00:58 G 31964840.38 31964840.54 31964840.71 0.0296 0.0077

Neptune 82804-08-31 23:46 G 31964843.43 31964843.49 31964843.59 0.0090 0.0079

Saturn 82804-11-25 23:32 G 31964929.32 31964929.48 31964929.64 0.0296 0.0114

Neptune 82804-11-28 02:24 G 31964931.60 31964931.60 31964931.65 0.0090 0.0089

Jupiter 82807-01-25 02:39 G 31965719.49 31965719.61 31965719.74 0.0522 0.0348

Earth 82808-01-16 05:32 G 31966075.62 31966075.73 31966075.85 0.2708 0.1527

Moon 82808-01-16 06:44 G 31966075.66 31966075.78 31966075.91 0.2705 0.1351 *

Earth 82810-07-17 13:12 G 31966988.94 31966989.05 31966989.16 0.2625 0.0859

Moon 82810-07-17 13:41 G 31966988.96 31966989.07 31966989.19 0.2619 0.0760 *

Mars 82811-09-23 21:08 G 31967422.30 31967422.38 31967422.47 0.1630 0.1161

Jupiter 82812-09-13 14:24 G 31967777.97 31967778.10 31967778.23 0.0505 0.0129

Mars 82813-08-29 00:58 G 31968127.43 31968127.54 31968127.66 0.1646 0.0543

Mars 82814-07-10 13:12 G 31968442.92 31968443.05 31968443.17 0.1884 0.1216

Uranus 82815-10-31 19:27 G 31968921.26 31968921.31 31968921.38 0.0144 0.0130

Uranus 82816-01-27 23:46 G 31969009.40 31969009.49 31969009.58 0.0144 0.0107

Uranus 82816-04-25 03:36 G 31969097.55 31969097.65 31969097.77 0.0144 0.0085

Venus 82816-07-21 00:44 G 31969184.45 31969184.53 31969184.61 0.3633 0.2408

Uranus 82816-07-22 07:56 G 31969185.71 31969185.83 31969185.96 0.0144 0.0062

Uranus 82816-10-18 12:00 G 31969273.87 31969274.00 31969274.14 0.0144 0.0039

Uranus 82817-01-14 16:20 G 31969362.04 31969362.18 31969362.32 0.0144 0.0015

Uranus 82817-04-12 20:39 G 31969450.22 31969450.36 31969450.50 0.0144 0.0009

Uranus 82817-07-10 00:44 G 31969538.40 31969538.53 31969538.67 0.0144 0.0032

Uranus 82817-10-06 05:03 G 31969626.58 31969626.71 31969626.84 0.0144 0.0055

Uranus 82818-01-02 09:22 G 31969714.77 31969714.89 31969715.01 0.0144 0.0079

Uranus 82818-03-31 13:41 G 31969802.97 31969803.07 31969803.17 0.0144 0.0103

Uranus 82818-06-27 18:00 G 31969891.19 31969891.25 31969891.32 0.0144 0.0127

Jupiter 82819-02-11 06:44 G 31970119.67 31970119.78 31970119.89 0.0524 0.0386

Saturn 82819-03-16 08:10 G 31970152.74 31970152.84 31970152.94 0.0264 0.0175

Saturn 82819-06-12 18:44 G 31970241.15 31970241.28 31970241.42 0.0264 0.0071

Saturn 82819-09-09 05:46 G 31970329.60 31970329.74 31970329.88 0.0265 0.0035

Saturn 82819-12-06 16:48 G 31970418.08 31970418.20 31970418.32 0.0265 0.0143

Saturn 82820-03-04 04:05 G 31970506.63 31970506.67 31970506.71 0.0265 0.0252

Earth 82821-01-18 07:27 G 31970826.67 31970826.81 31970826.94 0.2708 0.0563

Moon 82821-01-18 07:56 G 31970826.69 31970826.83 31970826.97 0.2702 0.0550 *

Mars 82821-02-13 08:24 G 31970852.82 31970852.85 31970852.88 0.1627 0.1552

Venus 82822-02-03 16:48 G 31971208.09 31971208.20 31971208.30 0.3634 0.0163

Mars 82823-01-19 12:00 G 31971557.88 31971558.00 31971558.11 0.1641 0.0122

Moon 82823-07-20 08:39 G 31971739.74 31971739.86 31971739.98 0.2618 0.0419

Earth 82823-07-20 08:39 G 31971739.75 31971739.86 31971739.98 0.2624 0.0488 *

Mars 82823-11-30 08:24 G 31971872.69 31971872.85 31971873.01 0.1890 0.0041

Jupiter 82824-07-02 18:15 G 31972088.15 31972088.26 31972088.37 0.0506 0.0295

Jupiter 82824-09-30 00:58 G 31972177.45 31972177.54 31972177.63 0.0503 0.0376

Venus 82826-02-03 05:17 G 31972668.61 31972668.72 31972668.84 0.3738 0.2167

Venus 82827-08-20 08:39 G 31973231.79 31973231.86 31973231.94 0.3635 0.2523

Jupiter 82830-11-30 04:34 G 31974429.53 31974429.69 31974429.86 0.0523 0.0142

Mars 82832-06-10 22:48 G 31974988.34 31974988.45 31974988.57 0.1638 0.0307

Mars 82833-04-21 03:22 G 31975302.52 31975302.64 31975302.77 0.1896 0.1163

Saturn 82834-01-16 01:12 G 31975572.39 31975572.55 31975572.71 0.0297 0.0123

Moon 82834-01-21 08:24 G 31975577.83 31975577.85 31975577.89 0.2701 0.2622

Earth 82834-01-21 08:53 G 31975577.83 31975577.87 31975577.91 0.2708 0.2574 *

Saturn 82834-04-14 23:46 G 31975661.32 31975661.49 31975661.66 0.0297 0.0069

Mars 82834-05-17 03:36 G 31975693.60 31975693.65 31975693.70 0.1655 0.1467

Saturn 82834-07-12 21:36 G 31975750.33 31975750.40 31975750.50 0.0297 0.0257

Jupiter 82836-04-20 21:51 G 31976398.36 31976398.41 31976398.46 0.0507 0.0467

Jupiter 82836-07-19 04:34 G 31976487.57 31976487.69 31976487.81 0.0504 0.0203

Moon 82836-07-22 03:36 G 31976490.57 31976490.65 31976490.74 0.2620 0.1832

Earth 82836-07-22 04:20 G 31976490.60 31976490.68 31976490.77 0.2624 0.1845 *

Pluto 82838-09-21 10:34 G 31977281.90 31977281.94 31977282.00 0.0082 0.0077

Pluto 82838-12-18 12:15 G 31977369.90 31977370.01 31977370.12 0.0082 0.0056

Pluto 82839-03-16 13:27 G 31977457.94 31977458.06 31977458.21 0.0081 0.0036

Pluto 82839-06-12 15:08 G 31977545.99 31977546.13 31977546.28 0.0081 0.0015

Pluto 82839-09-08 16:48 G 31977634.05 31977634.20 31977634.34 0.0081 0.0006

Pluto 82839-12-05 18:15 G 31977722.12 31977722.26 31977722.40 0.0081 0.0026

Pluto 82840-03-02 19:27 G 31977810.20 31977810.31 31977810.44 0.0081 0.0047

Pluto 82840-05-29 20:53 G 31977898.30 31977898.37 31977898.46 0.0081 0.0067

Mars 82841-11-01 10:05 G 31978418.81 31978418.92 31978419.02 0.1634 0.0714

Jupiter 82842-09-18 02:39 G 31978739.44 31978739.61 31978739.78 0.0522 0.0102

Earth 82843-07-15 23:03 G 31979040.38 31979040.46 31979040.54 0.2625 0.1901

Moon 82843-07-15 23:46 G 31979040.41 31979040.49 31979040.58 0.2623 0.1814 *

Mars 82843-10-07 14:10 G 31979124.00 31979124.09 31979124.19 0.1650 0.1024

Jupiter 82848-05-07 08:39 G 31980797.72 31980797.86 31980797.99 0.0505 0.0040

Saturn 82848-08-02 11:32 G 31980884.89 31980884.98 31980885.07 0.0264 0.0196

Saturn 82848-10-29 22:20 G 31980973.30 31980973.43 31980973.56 0.0264 0.0093

Saturn 82849-01-26 09:08 G 31981061.74 31981061.88 31981062.02 0.0264 0.0013

Saturn 82849-04-24 20:10 G 31981150.22 31981150.34 31981150.47 0.0264 0.0119

Saturn 82849-07-22 07:27 G 31981238.74 31981238.81 31981238.88 0.0264 0.0227

Mars 82851-03-24 21:08 G 31981849.30 31981849.38 31981849.47 0.1630 0.1114

Mars 82853-02-27 00:58 G 31982554.43 31982554.54 31982554.65 0.1646 0.0586

Mars 82854-01-08 13:56 G 31982869.96 31982870.08 31982870.19 0.1884 0.1307

Earth 82854-01-16 11:32 G 31982877.86 31982877.98 31982878.11 0.2708 0.1126

Moon 82854-01-16 12:44 G 31982877.90 31982878.03 31982878.16 0.2705 0.0995 *

Jupiter 82854-07-07 00:15 G 31983049.38 31983049.51 31983049.63 0.0521 0.0354

Earth 82856-07-17 18:15 G 31983791.15 31983791.26 31983791.38 0.2624 0.0599

Moon 82856-07-17 18:44 G 31983791.17 31983791.28 31983791.40 0.2618 0.0570 *

Uranus 82858-02-15 17:03 G 31984369.16 31984369.21 31984369.27 0.0134 0.0126

Uranus 82858-05-14 23:03 G 31984457.35 31984457.46 31984457.58 0.0134 0.0102

Uranus 82858-08-11 05:03 G 31984545.58 31984545.71 31984545.87 0.0134 0.0078

Uranus 82858-11-07 11:03 G 31984633.81 31984633.96 31984634.13 0.0134 0.0054

Uranus 82859-02-03 17:03 G 31984722.05 31984722.21 31984722.39 0.0134 0.0031

Uranus 82859-05-02 23:03 G 31984810.29 31984810.46 31984810.64 0.0134 0.0007

Uranus 82859-07-30 05:03 G 31984898.53 31984898.71 31984898.88 0.0134 0.0017

Uranus 82859-10-26 10:48 G 31984986.79 31984986.95 31984987.12 0.0134 0.0041

Uranus 82860-01-22 16:34 G 31985075.04 31985075.19 31985075.35 0.0134 0.0064

Jupiter 82860-02-24 12:44 G 31985107.90 31985108.03 31985108.16 0.0505 0.0125

Uranus 82860-04-19 22:05 G 31985163.30 31985163.42 31985163.56 0.0134 0.0088

Uranus 82860-07-17 03:51 G 31985251.57 31985251.66 31985251.77 0.0134 0.0110

Mars 82860-08-14 08:24 G 31985279.81 31985279.85 31985279.90 0.1627 0.1506

Uranus 82860-10-13 09:22 G 31985339.89 31985339.89 31985339.93 0.0134 0.0133

Mars 82862-07-20 12:00 G 31985984.88 31985985.00 31985985.11 0.1641 0.0168

Mars 82863-05-31 09:22 G 31986299.73 31986299.89 31986300.05 0.1890 0.0144

Saturn 82863-06-04 23:46 G 31986304.36 31986304.49 31986304.63 0.0297 0.0180

Saturn 82863-09-01 22:34 G 31986393.27 31986393.44 31986393.62 0.0296 0.0014

Saturn 82863-11-29 20:53 G 31986482.24 31986482.37 31986482.49 0.0296 0.0202

Jupiter 82866-07-24 04:05 G 31987449.56 31987449.67 31987449.79 0.0524 0.0378

Earth 82867-01-19 13:12 G 31987628.92 31987629.05 31987629.18 0.2708 0.0950

Moon 82867-01-19 13:27 G 31987628.93 31987629.06 31987629.19 0.2701 0.1017 *

Moon 82869-07-20 13:27 G 31988541.95 31988542.06 31988542.18 0.2618 0.0758

Earth 82869-07-20 13:41 G 31988541.96 31988542.07 31988542.19 0.2624 0.0747 *

Mars 82871-12-10 22:48 G 31989415.34 31989415.45 31989415.57 0.1637 0.0264

Jupiter 82871-12-13 16:48 G 31989418.09 31989418.20 31989418.31 0.0506 0.0290

Jupiter 82872-03-11 23:32 G 31989507.39 31989507.48 31989507.57 0.0503 0.0382

Mars 82872-10-20 03:51 G 31989729.52 31989729.66 31989729.79 0.1896 0.1090

Venus 82873-02-24 22:20 G 31989857.33 31989857.43 31989857.52 0.3634 0.1505

Mars 82873-11-15 03:36 G 31990120.61 31990120.65 31990120.70 0.1655 0.1515

Venus 82877-02-24 01:12 G 31991317.44 31991317.55 31991317.66 0.3738 0.2286

Saturn 82877-12-20 13:27 G 31991617.00 31991617.06 31991617.13 0.0264 0.0232

Saturn 82878-03-19 00:15 G 31991705.39 31991705.51 31991705.63 0.0264 0.0129

Jupiter 82878-05-12 02:39 G 31991759.45 31991759.61 31991759.78 0.0523 0.0147

Saturn 82878-06-15 11:03 G 31991793.82 31991793.96 31991794.10 0.0264 0.0024

Venus 82878-09-10 14:10 G 31991880.99 31991881.09 31991881.20 0.3634 0.0961

Saturn 82878-09-11 21:51 G 31991882.28 31991882.41 31991882.55 0.0264 0.0083

Saturn 82878-12-09 09:08 G 31991970.78 31991970.88 31991970.98 0.0264 0.0190

Mars 82881-05-02 09:51 G 31992845.81 31992845.91 31992846.02 0.1634 0.0673

Neptune 82882-07-19 20:53 G 31993289.33 31993289.37 31993289.43 0.0088 0.0082

Moon 82882-07-23 08:39 G 31993292.78 31993292.86 31993292.94 0.2620 0.1958

Earth 82882-07-23 09:22 G 31993292.82 31993292.89 31993292.96 0.2624 0.2120 *

Neptune 82882-10-15 22:34 G 31993377.37 31993377.44 31993377.52 0.0088 0.0074

Neptune 82883-01-12 00:00 G 31993465.42 31993465.50 31993465.60 0.0088 0.0067

Mars 82883-04-07 14:10 G 31993551.00 31993551.09 31993551.18 0.1650 0.1067

Neptune 82883-04-10 01:27 G 31993553.47 31993553.56 31993553.68 0.0088 0.0060

Neptune 82883-07-07 03:08 G 31993641.52 31993641.63 31993641.75 0.0088 0.0052

Jupiter 82883-10-01 20:53 G 31993728.31 31993728.37 31993728.42 0.0506 0.0455

Neptune 82883-10-03 04:34 G 31993729.58 31993729.69 31993729.82 0.0088 0.0045

Jupiter 82883-12-30 03:22 G 31993817.52 31993817.64 31993817.77 0.0504 0.0214

Neptune 82883-12-30 06:15 G 31993817.64 31993817.76 31993817.90 0.0088 0.0037 *

Venus 82884-03-26 06:15 G 31993904.73 31993904.76 31993904.79 0.3635 0.3452

Neptune 82884-03-27 07:56 G 31993905.70 31993905.83 31993905.97 0.0088 0.0030

Neptune 82884-06-23 09:22 G 31993993.76 31993993.89 31993994.04 0.0088 0.0023

Neptune 82884-09-19 11:03 G 31994081.82 31994081.96 31994082.11 0.0088 0.0015

Neptune 82884-12-16 12:44 G 31994169.89 31994170.03 31994170.17 0.0088 0.0007

Neptune 82885-03-14 14:24 G 31994257.95 31994258.10 31994258.24 0.0088 0.0002

Neptune 82885-06-10 15:51 G 31994346.02 31994346.16 31994346.31 0.0088 0.0008

Neptune 82885-09-06 17:32 G 31994434.09 31994434.23 31994434.37 0.0088 0.0016

Neptune 82885-12-03 18:58 G 31994522.16 31994522.29 31994522.44 0.0088 0.0024

Neptune 82886-03-01 20:39 G 31994610.23 31994610.36 31994610.50 0.0088 0.0031

Neptune 82886-05-28 22:05 G 31994698.30 31994698.42 31994698.56 0.0088 0.0039

Neptune 82886-08-25 00:00 G 31994786.38 31994786.50 31994786.62 0.0088 0.0046

Neptune 82886-11-21 01:27 G 31994874.45 31994874.56 31994874.68 0.0088 0.0054

Moon 82887-01-14 16:34 G 31994929.17 31994929.19 31994929.22 0.2707 0.2633

Neptune 82887-02-17 03:08 G 31994962.53 31994962.63 31994962.74 0.0088 0.0062

Neptune 82887-05-16 04:34 G 31995050.62 31995050.69 31995050.79 0.0088 0.0070

Neptune 82887-08-12 06:29 G 31995138.71 31995138.77 31995138.84 0.0088 0.0077

Neptune 82887-11-08 07:56 G 31995226.81 31995226.83 31995226.88 0.0088 0.0085

Earth 82889-07-16 04:05 G 31995842.58 31995842.67 31995842.76 0.2625 0.1645

Moon 82889-07-16 04:48 G 31995842.60 31995842.70 31995842.80 0.2621 0.1524 *

Jupiter 82890-02-28 00:44 G 31996069.37 31996069.53 31996069.70 0.0522 0.0096

Mars 82890-09-22 21:08 G 31996276.30 31996276.38 31996276.47 0.1630 0.1070

Mars 82892-08-28 00:58 G 31996981.43 31996981.54 31996981.65 0.1646 0.0627

Saturn 82892-10-21 23:03 G 31997036.35 31997036.46 31997036.57 0.0297 0.0235

Saturn 82893-01-18 22:05 G 31997125.24 31997125.42 31997125.59 0.0297 0.0040

Saturn 82893-04-17 20:24 G 31997214.20 31997214.35 31997214.50 0.0297 0.0151

Mars 82893-07-09 14:53 G 31997297.01 31997297.12 31997297.22 0.1884 0.1407

Jupiter 82895-10-18 06:58 G 31998127.65 31998127.79 31998127.92 0.0505 0.0039

Uranus 82899-11-21 02:24 G 31999622.55 31999622.60 31999622.68 0.0144 0.0125

Earth 82900-01-17 17:32 G 31999680.09 31999680.23 31999680.36 0.2708 0.0736

Moon 82900-01-17 18:29 G 31999680.13 31999680.27 31999680.41 0.2704 0.0628 *

Mars 82900-02-13 08:24 G 31999706.80 31999706.85 31999706.90 0.1627 0.1462

Uranus 82900-02-17 06:44 G 31999710.69 31999710.78 31999710.88 0.0144 0.0102

Uranus 82900-05-16 10:48 G 31999798.84 31999798.95 31999799.07 0.0144 0.0079

Uranus 82900-08-12 15:08 G 31999887.00 31999887.13 31999887.26 0.0144 0.0056

Uranus 82900-11-08 19:12 G 31999975.16 31999975.30 31999975.44 0.0144 0.0033

Uranus 82901-02-04 23:17 G 32000063.33 32000063.47 32000063.62 0.0144 0.0011

Uranus 82901-05-04 03:36 G 32000151.51 32000151.65 32000151.79 0.0144 0.0014

Uranus 82901-07-31 07:56 G 32000239.69 32000239.83 32000239.96 0.0144 0.0037

Uranus 82901-10-27 12:00 G 32000327.88 32000328.00 32000328.13 0.0144 0.0061

Jupiter 82901-12-17 22:48 G 32000379.32 32000379.45 32000379.58 0.0521 0.0338

Mars 82902-01-19 12:00 G 32000411.88 32000412.00 32000412.11 0.1642 0.0212

Uranus 82902-01-23 16:20 G 32000416.07 32000416.18 32000416.30 0.0144 0.0085

Uranus 82902-04-21 20:39 G 32000504.27 32000504.36 32000504.46 0.0144 0.0109

Uranus 82902-07-19 00:58 G 32000592.49 32000592.54 32000592.60 0.0144 0.0133

Earth 82902-07-19 23:17 G 32000593.36 32000593.47 32000593.59 0.2625 0.0346

Moon 82902-07-19 23:46 G 32000593.37 32000593.49 32000593.61 0.2619 0.0274 *

Mars 82902-11-30 10:05 G 32000726.75 32000726.92 32000727.08 0.1890 0.0237

Saturn 82907-05-10 17:03 G 32002349.18 32002349.21 32002349.24 0.0264 0.0254

Saturn 82907-08-07 03:36 G 32002437.54 32002437.65 32002437.76 0.0264 0.0152

Jupiter 82907-08-07 11:03 G 32002437.83 32002437.96 32002438.09 0.0506 0.0126

Saturn 82907-11-03 14:24 G 32002525.96 32002526.10 32002526.23 0.0264 0.0048

Saturn 82908-01-31 01:12 G 32002614.42 32002614.55 32002614.69 0.0264 0.0057

Saturn 82908-04-28 12:15 G 32002702.91 32002703.01 32002703.12 0.0264 0.0165

Mars 82911-06-11 22:48 G 32003842.33 32003842.45 32003842.57 0.1637 0.0216

Mars 82912-04-21 04:48 G 32004156.56 32004156.70 32004156.84 0.1896 0.0980

Earth 82913-01-20 19:12 G 32004431.18 32004431.30 32004431.42 0.2708 0.1338

Moon 82913-01-20 19:27 G 32004431.19 32004431.31 32004431.43 0.2701 0.1327 *

Mars 82913-05-17 03:36 G 32004547.62 32004547.65 32004547.69 0.1655 0.1561

Jupiter 82914-01-04 01:56 G 32004779.47 32004779.58 32004779.70 0.0523 0.0379

Moon 82915-07-22 18:29 G 32005344.16 32005344.27 32005344.38 0.2618 0.0933

Earth 82915-07-22 18:58 G 32005344.17 32005344.29 32005344.40 0.2624 0.1019 *

Jupiter 82919-05-26 15:22 G 32006748.03 32006748.14 32006748.25 0.0506 0.0286

Jupiter 82919-08-23 22:05 G 32006837.34 32006837.42 32006837.51 0.0503 0.0388

Mars 82920-11-01 09:51 G 32007272.81 32007272.91 32007273.02 0.1634 0.0627

Saturn 82922-03-11 21:22 G 32007768.37 32007768.39 32007768.40 0.0297 0.0295

Saturn 82922-06-08 20:24 G 32007857.19 32007857.35 32007857.52 0.0297 0.0099

Moon 82922-07-15 14:39 G 32007894.08 32007894.11 32007894.14 0.2627 0.2522

Saturn 82922-09-05 18:58 G 32007946.13 32007946.29 32007946.46 0.0297 0.0093

Mars 82922-10-07 14:10 G 32007978.01 32007978.09 32007978.18 0.1650 0.1112

Saturn 82922-12-03 16:48 G 32008035.16 32008035.20 32008035.26 0.0296 0.0281

Venus 82924-03-19 03:51 G 32008506.60 32008506.66 32008506.72 0.3633 0.3006

Jupiter 82925-10-23 00:29 G 32009089.36 32009089.52 32009089.69 0.0523 0.0146

Moon 82928-07-24 13:41 G 32010095.02 32010095.07 32010095.12 0.2621 0.2360

Earth 82928-07-24 14:39 G 32010095.06 32010095.11 32010095.15 0.2624 0.2393 *

Venus 82929-10-02 19:41 G 32010530.22 32010530.32 32010530.43 0.3634 0.0595

Mars 82930-03-24 21:08 G 32010703.29 32010703.38 32010703.47 0.1630 0.1028

Jupiter 82931-03-14 19:27 G 32011058.25 32011058.31 32011058.37 0.0507 0.0447

Jupiter 82931-06-12 02:10 G 32011147.47 32011147.59 32011147.71 0.0504 0.0222

Mars 82932-02-28 00:58 G 32011408.43 32011408.54 32011408.65 0.1646 0.0673

Mars 82933-01-08 15:08 G 32011724.04 32011724.13 32011724.23 0.1884 0.1481

Earth 82933-01-15 21:22 G 32011731.33 32011731.39 32011731.44 0.2708 0.2476

Moon 82933-01-15 22:48 G 32011731.38 32011731.45 32011731.51 0.2707 0.2407 *

Venus 82933-10-02 02:10 G 32011990.44 32011990.59 32011990.73 0.3738 0.0056

Venus 82935-04-18 11:46 G 32012553.90 32012553.99 32012554.08 0.3634 0.1867

Earth 82935-07-18 09:08 G 32012644.78 32012644.88 32012644.98 0.2625 0.1384

Moon 82935-07-18 09:51 G 32012644.81 32012644.91 32012645.01 0.2620 0.1353 *

Saturn 82936-12-24 05:17 G 32013169.63 32013169.72 32013169.82 0.0264 0.0190

Saturn 82937-03-22 16:05 G 32013258.04 32013258.17 32013258.30 0.0264 0.0087

Saturn 82937-06-19 02:53 G 32013346.48 32013346.62 32013346.76 0.0264 0.0019

Jupiter 82937-08-10 23:03 G 32013399.29 32013399.46 32013399.63 0.0522 0.0088

Saturn 82937-09-15 13:41 G 32013434.95 32013435.07 32013435.20 0.0264 0.0125

Saturn 82937-12-13 00:58 G 32013523.48 32013523.54 32013523.60 0.0264 0.0233

Mars 82939-08-15 08:24 G 32014133.79 32014133.85 32014133.90 0.1627 0.1420

Mars 82941-07-20 11:46 G 32014838.87 32014838.99 32014839.11 0.1641 0.0246

Uranus 82942-03-09 00:00 G 32015070.43 32015070.50 32015070.58 0.0134 0.0120

Mars 82942-05-31 10:48 G 32015153.79 32015153.95 32015154.11 0.1890 0.0324

Uranus 82942-06-05 06:00 G 32015158.63 32015158.75 32015158.88 0.0134 0.0096

Uranus 82942-09-01 12:00 G 32015246.86 32015247.00 32015247.16 0.0134 0.0072

Uranus 82942-11-28 18:15 G 32015335.09 32015335.26 32015335.43 0.0134 0.0047

Uranus 82943-02-25 00:15 G 32015423.33 32015423.51 32015423.68 0.0134 0.0024

Jupiter 82943-03-31 06:00 G 32015457.62 32015457.75 32015457.89 0.0504 0.0057

Uranus 82943-05-24 06:00 G 32015511.58 32015511.75 32015511.93 0.0134 0.0003

Uranus 82943-08-20 11:46 G 32015599.82 32015599.99 32015600.17 0.0134 0.0025

Uranus 82943-11-16 17:46 G 32015688.08 32015688.24 32015688.40 0.0134 0.0047

Uranus 82944-02-12 23:32 G 32015776.33 32015776.48 32015776.63 0.0134 0.0071

Uranus 82944-05-11 05:17 G 32015864.60 32015864.72 32015864.85 0.0134 0.0094

Uranus 82944-08-07 10:48 G 32015952.88 32015952.95 32015953.04 0.0134 0.0117

Earth 82946-01-18 23:17 G 32016482.34 32016482.47 32016482.61 0.2708 0.0350

Moon 82946-01-19 00:15 G 32016482.37 32016482.51 32016482.65 0.2703 0.0203 *

Moon 82948-07-20 04:34 G 32017395.57 32017395.69 32017395.82 0.2618 0.0108

Earth 82948-07-20 04:34 G 32017395.57 32017395.69 32017395.81 0.2624 0.0107 *

Jupiter 82949-05-29 21:22 G 32017709.26 32017709.39 32017709.52 0.0521 0.0326

Mars 82950-12-10 22:48 G 32018269.33 32018269.45 32018269.57 0.1637 0.0175

Mars 82951-10-21 05:46 G 32018583.59 32018583.74 32018583.88 0.1896 0.0878

Saturn 82951-10-26 18:29 G 32018589.13 32018589.27 32018589.42 0.0297 0.0162

Saturn 82952-01-23 17:17 G 32018678.05 32018678.22 32018678.40 0.0297 0.0033

Saturn 82952-04-21 15:36 G 32018767.04 32018767.15 32018767.27 0.0297 0.0222

Mars 82952-11-15 03:36 G 32018974.62 32018974.65 32018974.68 0.1654 0.1599

Jupiter 82955-01-17 09:36 G 32019767.77 32019767.90 32019768.03 0.0506 0.0120

Moon 82959-01-22 01:12 G 32021233.44 32021233.55 32021233.65 0.2701 0.1723

Earth 82959-01-22 00:58 G 32021233.44 32021233.54 32021233.65 0.2708 0.1718 *

Mars 82960-05-02 09:51 G 32021699.80 32021699.91 32021700.02 0.1634 0.0582

Jupiter 82961-06-16 00:58 G 32022109.44 32022109.54 32022109.65 0.0523 0.0402

Moon 82961-07-22 23:32 G 32022146.37 32022146.48 32022146.58 0.2618 0.1246

Earth 82961-07-23 00:00 G 32022146.39 32022146.50 32022146.60 0.2624 0.1285 *

Mars 82962-04-07 14:10 G 32022405.01 32022405.09 32022405.18 0.1650 0.1156

Neptune 82965-04-22 21:36 G 32023516.35 32023516.40 32023516.48 0.0090 0.0084

Neptune 82965-07-20 00:29 G 32023604.44 32023604.52 32023604.64 0.0090 0.0074

Neptune 82965-10-16 03:36 G 32023692.54 32023692.65 32023692.79 0.0090 0.0064

Neptune 82966-01-12 06:58 G 32023780.65 32023780.79 32023780.93 0.0090 0.0053

Neptune 82966-04-10 09:51 G 32023868.76 32023868.91 32023869.07 0.0090 0.0043

Saturn 82966-05-13 08:24 G 32023901.78 32023901.85 32023901.93 0.0263 0.0214

Neptune 82966-07-07 12:44 G 32023956.87 32023957.03 32023957.20 0.0090 0.0033

Saturn 82966-08-09 18:58 G 32023990.17 32023990.29 32023990.42 0.0263 0.0113

Neptune 82966-10-03 15:36 G 32024044.98 32024045.15 32024045.32 0.0090 0.0023

Jupiter 82966-11-05 13:41 G 32024077.96 32024078.07 32024078.18 0.0507 0.0284

Saturn 82966-11-06 06:00 G 32024078.61 32024078.75 32024078.88 0.0263 0.0011

Neptune 82966-12-30 18:29 G 32024133.10 32024133.27 32024133.45 0.0090 0.0013

Saturn 82967-02-02 16:48 G 32024167.07 32024167.20 32024167.33 0.0264 0.0098

Jupiter 82967-02-02 20:24 G 32024167.27 32024167.35 32024167.44 0.0504 0.0391 *

Neptune 82967-03-28 21:36 G 32024221.22 32024221.40 32024221.57 0.0090 0.0004

Saturn 82967-05-02 03:51 G 32024255.58 32024255.66 32024255.75 0.0264 0.0206

Neptune 82967-06-25 00:29 G 32024309.34 32024309.52 32024309.69 0.0090 0.0007

Neptune 82967-09-21 03:08 G 32024397.46 32024397.63 32024397.81 0.0090 0.0017

Neptune 82967-12-18 06:00 G 32024485.59 32024485.75 32024485.92 0.0090 0.0026

Neptune 82968-03-15 08:53 G 32024573.71 32024573.87 32024574.03 0.0090 0.0036

Neptune 82968-06-11 11:32 G 32024661.84 32024661.98 32024662.14 0.0090 0.0046

Earth 82968-07-15 18:58 G 32024696.25 32024696.29 32024696.33 0.2625 0.2421

Moon 82968-07-15 19:41 G 32024696.28 32024696.32 32024696.37 0.2625 0.2398 *

Neptune 82968-09-07 14:24 G 32024749.97 32024750.10 32024750.25 0.0090 0.0056

Neptune 82968-12-04 17:17 G 32024838.11 32024838.22 32024838.35 0.0090 0.0065

Neptune 82969-03-02 19:56 G 32024926.25 32024926.33 32024926.44 0.0090 0.0075

Neptune 82969-05-29 23:03 G 32025014.40 32025014.46 32025014.52 0.0090 0.0084

Mars 82969-09-22 21:08 G 32025130.29 32025130.38 32025130.47 0.1630 0.0982

Mars 82971-08-29 00:58 G 32025835.43 32025835.54 32025835.65 0.1646 0.0718

Mars 82972-07-09 16:05 G 32026151.08 32026151.17 32026151.25 0.1884 0.1574

Jupiter 82973-04-03 22:48 G 32026419.29 32026419.45 32026419.61 0.0522 0.0155

Moon 82974-07-25 18:44 G 32026897.25 32026897.28 32026897.31 0.2623 0.2526

Jupiter 82978-08-24 18:00 G 32028388.19 32028388.25 32028388.31 0.0507 0.0442

Jupiter 82978-11-22 00:44 G 32028477.41 32028477.53 32028477.65 0.0504 0.0229

Earth 82979-01-17 03:22 G 32028533.55 32028533.64 32028533.73 0.2708 0.2074

Moon 82979-01-17 04:34 G 32028533.59 32028533.69 32028533.79 0.2707 0.1817 *

Mars 82979-02-13 08:24 G 32028560.79 32028560.85 32028560.91 0.1626 0.1376

Venus 82980-10-24 01:12 G 32029179.47 32029179.55 32029179.64 0.3633 0.2112

Mars 82981-01-18 11:46 G 32029265.87 32029265.99 32029266.11 0.1641 0.0291

Saturn 82981-03-14 16:48 G 32029321.09 32029321.20 32029321.32 0.0297 0.0223

Saturn 82981-06-11 15:51 G 32029409.98 32029410.16 32029410.33 0.0297 0.0028

Earth 82981-07-18 14:10 G 32029446.98 32029447.09 32029447.20 0.2625 0.1130

Moon 82981-07-18 14:53 G 32029447.01 32029447.12 32029447.23 0.2620 0.0987 *

Saturn 82981-09-08 14:10 G 32029498.95 32029499.09 32029499.24 0.0297 0.0163

Mars 82981-11-29 11:32 G 32029580.82 32029580.98 32029581.14 0.1890 0.0417

Uranus 82983-09-15 06:00 G 32030235.73 32030235.75 32030235.79 0.0144 0.0140

Uranus 82983-12-12 10:05 G 32030323.85 32030323.92 32030324.01 0.0144 0.0117

Uranus 82984-03-09 14:24 G 32030411.99 32030412.10 32030412.20 0.0144 0.0094

Uranus 82984-06-05 18:15 G 32030500.15 32030500.26 32030500.39 0.0144 0.0072

Uranus 82984-09-01 22:20 G 32030588.31 32030588.43 32030588.57 0.0144 0.0049

Uranus 82984-11-29 02:39 G 32030676.47 32030676.61 32030676.75 0.0144 0.0026

Jupiter 82985-01-20 21:22 G 32030729.22 32030729.39 32030729.56 0.0522 0.0082

Uranus 82985-02-25 06:58 G 32030764.65 32030764.79 32030764.93 0.0144 0.0003

Uranus 82985-05-24 11:03 G 32030852.82 32030852.96 32030853.10 0.0144 0.0021

Uranus 82985-08-20 15:22 G 32030941.00 32030941.14 32030941.27 0.0144 0.0045

Uranus 82985-11-16 19:27 G 32031029.19 32031029.31 32031029.44 0.0144 0.0069

Uranus 82986-02-13 00:00 G 32031117.39 32031117.50 32031117.61 0.0144 0.0092

Venus 82986-05-09 17:17 G 32031203.11 32031203.22 32031203.32 0.3634 0.0325

Uranus 82986-05-12 04:20 G 32031205.59 32031205.68 32031205.76 0.0144 0.0116

Uranus 82986-08-08 08:39 G 32031293.83 32031293.86 32031293.89 0.0144 0.0140

Venus 82990-05-09 03:08 G 32032663.52 32032663.63 32032663.74 0.3738 0.2254

Mars 82990-06-10 22:48 G 32032696.33 32032696.45 32032696.57 0.1637 0.0129

Jupiter 82990-09-10 04:48 G 32032787.57 32032787.70 32032787.84 0.0505 0.0067

Mars 82991-04-21 06:15 G 32033010.61 32033010.76 32033010.90 0.1896 0.0798

Venus 82991-11-23 09:22 G 32033226.82 32033226.89 32033226.95 0.3634 0.2799

Earth 82992-01-20 05:17 G 32033284.58 32033284.72 32033284.86 0.2708 0.0054

Moon 82992-01-20 06:00 G 32033284.61 32033284.75 32033284.89 0.2702 0.0068 *

Mars 82992-05-16 03:36 G 32033401.65 32033401.65 32033401.66 0.1655 0.1647

Moon 82994-07-21 09:36 G 32034197.78 32034197.90 32034198.02 0.2618 0.0175

Earth 82994-07-21 09:36 G 32034197.78 32034197.90 32034198.02 0.2624 0.0216 *

Saturn 82995-09-30 09:51 G 32034633.89 32034633.91 32034633.95 0.0264 0.0254

Pluto 82995-11-28 01:27 G 32034692.50 32034692.56 32034692.67 0.0062 0.0054

Saturn 82995-12-27 20:39 G 32034722.25 32034722.36 32034722.47 0.0264 0.0152

Pluto 82996-02-24 02:53 G 32034780.51 32034780.62 32034780.75 0.0062 0.0043

Saturn 82996-03-25 07:12 G 32034810.67 32034810.80 32034810.94 0.0264 0.0049

Pluto 82996-05-22 03:36 G 32034868.52 32034868.65 32034868.81 0.0062 0.0033

Saturn 82996-06-21 18:15 G 32034899.12 32034899.26 32034899.39 0.0264 0.0057

Pluto 82996-08-18 04:48 G 32034956.55 32034956.70 32034956.86 0.0062 0.0022

Saturn 82996-09-18 05:03 G 32034987.61 32034987.71 32034987.83 0.0264 0.0164

Jupiter 82996-11-08 19:41 G 32035039.19 32035039.32 32035039.46 0.0521 0.0316

Pluto 82996-11-14 05:46 G 32035044.58 32035044.74 32035044.91 0.0062 0.0012

Pluto 82997-02-10 06:44 G 32035132.61 32035132.78 32035132.95 0.0062 0.0002

Pluto 82997-05-09 07:41 G 32035220.66 32035220.82 32035220.99 0.0062 0.0009

Pluto 82997-08-05 08:39 G 32035308.70 32035308.86 32035309.02 0.0063 0.0020

Pluto 82997-11-01 09:22 G 32035396.75 32035396.89 32035397.05 0.0063 0.0031

Pluto 82998-01-28 10:20 G 32035484.81 32035484.93 32035485.07 0.0063 0.0041

Pluto 82998-04-26 11:03 G 32035572.89 32035572.96 32035573.07 0.0063 0.0052

Pluto 82998-07-23 12:29 G 32035661.00 32035661.02 32035661.04 0.0063 0.0062

Mars 82999-11-01 09:51 G 32036126.80 32036126.91 32036127.02 0.1633 0.0541

84TH MILLENNIUM CE

This is a list of transits of Mercury in the 84th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Mars 83001-10-07 14:10 G 32036832.01 32036832.09 32036832.17 0.1650 0.1198

Jupiter 83002-06-30 08:53 G 32037097.74 32037097.87 32037098.00 0.0505 0.0097

Moon 83005-01-23 06:44 G 32038035.70 32038035.78 32038035.87 0.2702 0.2104

Earth 83005-01-23 06:58 G 32038035.70 32038035.79 32038035.87 0.2709 0.2098 *

Moon 83007-07-25 04:34 G 32038948.59 32038948.69 32038948.79 0.2619 0.1494

Earth 83007-07-25 05:03 G 32038948.61 32038948.71 32038948.81 0.2624 0.1558 *

Jupiter 83008-11-26 23:46 G 32039439.39 32039439.49 32039439.59 0.0523 0.0420

Mars 83009-03-24 21:08 G 32039557.28 32039557.38 32039557.47 0.1630 0.0939

Saturn 83010-08-02 13:41 G 32040053.06 32040053.07 32040053.09 0.0297 0.0295

Saturn 83010-10-30 12:58 G 32040141.88 32040142.04 32040142.21 0.0297 0.0098

Saturn 83011-01-27 11:46 G 32040230.83 32040230.99 32040231.15 0.0297 0.0096

Mars 83011-02-28 00:44 G 32040262.43 32040262.53 32040262.64 0.1645 0.0761

Saturn 83011-04-26 09:51 G 32040319.87 32040319.91 32040319.96 0.0297 0.0284

Mars 83012-01-09 16:48 G 32040578.13 32040578.20 32040578.28 0.1884 0.1671

Jupiter 83014-04-18 12:29 G 32041407.90 32041408.02 32041408.13 0.0506 0.0275

Jupiter 83014-07-16 19:12 G 32041497.22 32041497.30 32041497.38 0.0504 0.0400

Earth 83014-07-18 00:00 G 32041498.43 32041498.50 32041498.56 0.2625 0.2171

Moon 83014-07-18 00:44 G 32041498.46 32041498.53 32041498.61 0.2623 0.2014 *

Mars 83018-08-15 08:24 G 32042987.78 32042987.85 32042987.91 0.1626 0.1332

Mars 83020-07-20 11:46 G 32043692.88 32043692.99 32043693.11 0.1641 0.0338

Jupiter 83020-09-14 22:20 G 32043749.27 32043749.43 32043749.59 0.0522 0.0185

Mars 83021-05-31 12:15 G 32044007.85 32044008.01 32044008.17 0.1890 0.0511

Earth 83025-01-18 09:22 G 32045335.78 32045335.89 32045336.00 0.2708 0.1662

Moon 83025-01-18 10:34 G 32045335.83 32045335.94 32045336.05 0.2706 0.1611 *

Saturn 83025-05-16 23:46 G 32045454.39 32045454.49 32045454.59 0.0263 0.0178

Saturn 83025-08-13 10:20 G 32045542.80 32045542.93 32045543.06 0.0263 0.0075

Saturn 83025-11-09 21:08 G 32045631.24 32045631.38 32045631.52 0.0263 0.0030

Jupiter 83026-02-04 16:34 G 32045718.13 32045718.19 32045718.26 0.0507 0.0438

Saturn 83026-02-06 07:56 G 32045719.72 32045719.83 32045719.96 0.0263 0.0137

Uranus 83026-03-30 06:58 G 32045771.71 32045771.79 32045771.90 0.0134 0.0113

Jupiter 83026-05-04 23:17 G 32045807.35 32045807.47 32045807.59 0.0504 0.0235

Saturn 83026-05-05 19:12 G 32045808.25 32045808.30 32045808.35 0.0264 0.0244

Uranus 83026-06-26 13:27 G 32045859.93 32045860.06 32045860.19 0.0134 0.0088

Uranus 83026-09-22 19:27 G 32045948.16 32045948.31 32045948.47 0.0134 0.0064

Uranus 83026-12-20 01:27 G 32046036.39 32046036.56 32046036.73 0.0134 0.0040

Uranus 83027-03-18 07:27 G 32046124.63 32046124.81 32046124.99 0.0134 0.0016

Uranus 83027-06-14 13:27 G 32046212.88 32046213.06 32046213.23 0.0134 0.0008

Earth 83027-07-20 19:12 G 32046249.19 32046249.30 32046249.41 0.2624 0.0867

Moon 83027-07-20 19:56 G 32046249.21 32046249.33 32046249.44 0.2620 0.0863 *

Uranus 83027-09-10 19:12 G 32046301.13 32046301.30 32046301.47 0.0134 0.0032

Uranus 83027-12-08 00:58 G 32046389.38 32046389.54 32046389.70 0.0134 0.0055

Uranus 83028-03-05 06:44 G 32046477.64 32046477.78 32046477.93 0.0134 0.0078

Uranus 83028-06-01 12:29 G 32046565.91 32046566.02 32046566.14 0.0134 0.0101

Uranus 83028-08-28 18:00 G 32046654.20 32046654.25 32046654.33 0.0134 0.0125

Mars 83029-12-10 22:48 G 32047123.33 32047123.45 32047123.57 0.1637 0.0095

Mars 83030-10-21 06:58 G 32047437.64 32047437.79 32047437.95 0.1896 0.0697

Venus 83031-11-16 06:58 G 32047828.78 32047828.79 32047828.80 0.3633 0.3599

Jupiter 83032-07-03 20:10 G 32048059.17 32048059.34 32048059.50 0.0521 0.0066

Venus 83037-05-31 22:48 G 32049852.35 32049852.45 32049852.55 0.3633 0.1206

Earth 83038-01-21 11:17 G 32050086.83 32050086.97 32050087.11 0.2708 0.0448

Moon 83038-01-21 11:46 G 32050086.86 32050086.99 32050087.13 0.2702 0.0606 *

Jupiter 83038-02-21 03:36 G 32050117.51 32050117.65 32050117.78 0.0505 0.0076

Mars 83039-05-03 09:51 G 32050553.80 32050553.91 32050554.02 0.1634 0.0493

Saturn 83040-03-18 11:03 G 32050873.81 32050873.96 32050874.11 0.0297 0.0160

Saturn 83040-06-15 09:51 G 32050962.74 32050962.91 32050963.09 0.0297 0.0034

Moon 83040-07-22 14:24 G 32050999.98 32051000.10 32051000.22 0.2618 0.0505

Earth 83040-07-22 14:39 G 32050999.99 32051000.11 32051000.22 0.2624 0.0468 *

Saturn 83040-09-12 08:10 G 32051051.73 32051051.84 32051051.96 0.0297 0.0224

Mars 83041-04-07 14:10 G 32051259.01 32051259.09 32051259.17 0.1650 0.1243

Venus 83041-05-30 22:48 G 32051312.33 32051312.45 32051312.56 0.3739 0.2264

Venus 83042-12-15 14:39 G 32051876.02 32051876.11 32051876.21 0.3634 0.1245

Jupiter 83044-04-21 18:15 G 32052369.12 32052369.26 32052369.40 0.0521 0.0303

Neptune 83047-01-19 18:58 G 32053372.26 32053372.29 32053372.32 0.0088 0.0085

Neptune 83047-04-17 20:24 G 32053460.29 32053460.35 32053460.42 0.0088 0.0078

Neptune 83047-07-14 21:51 G 32053548.34 32053548.41 32053548.50 0.0088 0.0071

Neptune 83047-10-10 23:32 G 32053636.38 32053636.48 32053636.58 0.0088 0.0063

Neptune 83048-01-07 00:58 G 32053724.44 32053724.54 32053724.65 0.0088 0.0056

Neptune 83048-04-04 02:24 G 32053812.49 32053812.60 32053812.73 0.0088 0.0049

Neptune 83048-07-01 04:05 G 32053900.55 32053900.67 32053900.80 0.0088 0.0041

Mars 83048-09-22 20:53 G 32053984.28 32053984.37 32053984.47 0.1630 0.0899

Neptune 83048-09-27 05:32 G 32053988.61 32053988.73 32053988.87 0.0088 0.0034

Neptune 83048-12-24 07:12 G 32054076.67 32054076.80 32054076.94 0.0088 0.0026

Neptune 83049-03-22 08:53 G 32054164.73 32054164.87 32054165.01 0.0088 0.0019

Neptune 83049-06-18 10:20 G 32054252.80 32054252.93 32054253.08 0.0088 0.0012

Neptune 83049-09-14 12:00 G 32054340.86 32054341.00 32054341.15 0.0088 0.0004

Jupiter 83049-12-10 07:41 G 32054427.69 32054427.82 32054427.96 0.0505 0.0087

Neptune 83049-12-11 13:41 G 32054428.93 32054429.07 32054429.21 0.0088 0.0004

Neptune 83050-03-09 15:08 G 32054516.99 32054517.13 32054517.28 0.0088 0.0012

Neptune 83050-06-05 16:48 G 32054605.06 32054605.20 32054605.34 0.0088 0.0019

Mars 83050-08-29 00:58 G 32054689.44 32054689.54 32054689.64 0.1646 0.0806

Neptune 83050-09-01 18:29 G 32054693.13 32054693.27 32054693.41 0.0088 0.0027

Neptune 83050-11-28 19:56 G 32054781.20 32054781.33 32054781.47 0.0088 0.0035

Moon 83051-01-24 12:15 G 32054837.95 32054838.01 32054838.08 0.2702 0.2364

Earth 83051-01-24 12:44 G 32054837.98 32054838.03 32054838.08 0.2709 0.2478 *

Neptune 83051-02-24 21:36 G 32054869.28 32054869.40 32054869.53 0.0088 0.0042

Neptune 83051-05-23 23:17 G 32054957.35 32054957.47 32054957.59 0.0088 0.0050

Mars 83051-07-10 17:17 G 32055005.17 32055005.22 32055005.28 0.1884 0.1744

Neptune 83051-08-20 00:44 G 32055045.43 32055045.53 32055045.65 0.0088 0.0058

Neptune 83051-11-16 02:10 G 32055133.51 32055133.59 32055133.70 0.0088 0.0066

Neptune 83052-02-12 04:05 G 32055221.60 32055221.67 32055221.75 0.0088 0.0073

Neptune 83052-05-10 05:32 G 32055309.69 32055309.73 32055309.80 0.0088 0.0081

Moon 83053-07-25 09:36 G 32055750.81 32055750.90 32055750.99 0.2620 0.1727

Earth 83053-07-25 10:05 G 32055750.84 32055750.92 32055751.01 0.2624 0.1829 *

Saturn 83054-10-04 01:12 G 32056186.47 32056186.55 32056186.62 0.0263 0.0218

Saturn 83054-12-31 11:46 G 32056274.87 32056274.99 32056275.11 0.0263 0.0115

Saturn 83055-03-29 22:20 G 32056363.30 32056363.43 32056363.57 0.0263 0.0015

Saturn 83055-06-26 09:22 G 32056451.76 32056451.89 32056452.02 0.0264 0.0094

Saturn 83055-09-22 20:10 G 32056540.26 32056540.34 32056540.44 0.0264 0.0201

Jupiter 83056-05-08 22:34 G 32056769.34 32056769.44 32056769.53 0.0524 0.0434

Mars 83058-02-13 08:10 G 32057414.77 32057414.84 32057414.91 0.1626 0.1290

Mars 83060-01-19 11:46 G 32058119.87 32058119.99 32058120.10 0.1641 0.0375

Earth 83060-07-18 05:03 G 32058300.63 32058300.71 32058300.79 0.2625 0.1915

Moon 83060-07-18 05:46 G 32058300.66 32058300.74 32058300.83 0.2623 0.1873 *

Mars 83060-11-29 12:58 G 32058434.88 32058435.04 32058435.19 0.1890 0.0596

Jupiter 83061-09-28 12:00 G 32058737.88 32058738.00 32058738.12 0.0506 0.0247

Jupiter 83061-12-26 18:44 G 32058827.21 32058827.28 32058827.35 0.0503 0.0426

Uranus 83067-10-06 13:56 G 32060937.03 32060937.08 32060937.14 0.0144 0.0131

Uranus 83068-01-02 17:46 G 32061025.16 32061025.24 32061025.34 0.0144 0.0109

Jupiter 83068-02-25 21:22 G 32061079.23 32061079.39 32061079.54 0.0522 0.0206

Uranus 83068-03-30 21:51 G 32061113.31 32061113.41 32061113.53 0.0144 0.0086

Uranus 83068-06-27 02:10 G 32061201.46 32061201.59 32061201.72 0.0144 0.0063

Uranus 83068-09-23 06:15 G 32061289.63 32061289.76 32061289.90 0.0144 0.0040

Uranus 83068-12-20 10:20 G 32061377.79 32061377.93 32061378.07 0.0144 0.0017

Uranus 83069-03-18 14:39 G 32061465.97 32061466.11 32061466.25 0.0144 0.0007

Mars 83069-06-10 22:48 G 32061550.33 32061550.45 32061550.56 0.1637 0.0070

Uranus 83069-06-14 18:44 G 32061554.15 32061554.28 32061554.42 0.0144 0.0031

Saturn 83069-08-05 06:58 G 32061605.70 32061605.79 32061605.90 0.0297 0.0240

Uranus 83069-09-10 23:03 G 32061642.33 32061642.46 32061642.59 0.0144 0.0054

Saturn 83069-11-02 06:29 G 32061694.59 32061694.77 32061694.94 0.0297 0.0043

Uranus 83069-12-08 03:22 G 32061730.52 32061730.64 32061730.76 0.0144 0.0077

Saturn 83070-01-30 05:03 G 32061783.56 32061783.71 32061783.86 0.0297 0.0150

Uranus 83070-03-06 07:41 G 32061818.72 32061818.82 32061818.92 0.0144 0.0101

Mars 83070-04-21 07:56 G 32061864.68 32061864.83 32061864.99 0.1896 0.0590

Uranus 83070-06-02 12:00 G 32061906.93 32061907.00 32061907.07 0.0144 0.0125

Earth 83071-01-19 15:22 G 32062138.01 32062138.14 32062138.26 0.2708 0.1268

Moon 83071-01-19 16:20 G 32062138.05 32062138.18 32062138.31 0.2704 0.1062 *

Jupiter 83073-07-17 15:22 G 32063048.07 32063048.14 32063048.21 0.0507 0.0426

Earth 83073-07-21 00:15 G 32063051.39 32063051.51 32063051.62 0.2624 0.0613

Moon 83073-07-21 00:44 G 32063051.41 32063051.53 32063051.64 0.2619 0.0502 *

Jupiter 83073-10-14 22:05 G 32063137.30 32063137.42 32063137.54 0.0504 0.0247

Mars 83078-11-01 09:51 G 32064980.80 32064980.91 32064981.02 0.1634 0.0450

Mars 83079-09-11 01:56 G 32065294.55 32065294.58 32065294.61 0.1902 0.1854

Jupiter 83079-12-14 19:56 G 32065389.16 32065389.33 32065389.50 0.0521 0.0031

Mars 83080-10-06 14:10 G 32065686.02 32065686.09 32065686.16 0.1650 0.1288

Earth 83084-01-22 17:17 G 32066889.09 32066889.22 32066889.35 0.2708 0.0847

Moon 83084-01-22 17:46 G 32066889.10 32066889.24 32066889.37 0.2702 0.0808 *

Saturn 83084-02-21 04:05 G 32066918.62 32066918.67 32066918.72 0.0263 0.0244

Saturn 83084-05-19 14:24 G 32067006.99 32067007.10 32067007.22 0.0263 0.0143

Saturn 83084-08-16 01:12 G 32067095.42 32067095.55 32067095.69 0.0263 0.0040

Saturn 83084-11-12 12:00 G 32067183.87 32067184.00 32067184.14 0.0263 0.0066

Saturn 83085-02-08 23:03 G 32067272.36 32067272.46 32067272.57 0.0263 0.0172

Jupiter 83085-08-03 02:10 G 32067447.45 32067447.59 32067447.72 0.0505 0.0082

Moon 83086-07-23 19:27 G 32067802.19 32067802.31 32067802.43 0.2618 0.0647

Earth 83086-07-23 19:41 G 32067802.20 32067802.32 32067802.43 0.2624 0.0733 *

Pluto 83087-04-13 17:46 G 32068066.17 32068066.24 32068066.35 0.0082 0.0065

Pluto 83087-07-10 19:27 G 32068154.20 32068154.31 32068154.44 0.0082 0.0044

Pluto 83087-10-06 20:53 G 32068242.24 32068242.37 32068242.52 0.0081 0.0024

Pluto 83088-01-02 22:34 G 32068330.29 32068330.44 32068330.59 0.0081 0.0003

Mars 83088-03-23 20:53 G 32068411.27 32068411.37 32068411.47 0.1630 0.0853

Pluto 83088-03-31 00:00 G 32068418.36 32068418.50 32068418.65 0.0081 0.0018

Venus 83088-06-22 04:20 G 32068501.62 32068501.68 32068501.75 0.3633 0.2706

Pluto 83088-06-27 01:27 G 32068506.44 32068506.56 32068506.70 0.0081 0.0038

Pluto 83088-09-23 02:39 G 32068594.53 32068594.61 32068594.73 0.0081 0.0059

Pluto 83088-12-20 04:20 G 32068682.66 32068682.68 32068682.72 0.0081 0.0079

Mars 83090-02-27 00:58 G 32069116.44 32069116.54 32069116.64 0.1645 0.0849

Mars 83091-01-08 18:15 G 32069432.23 32069432.26 32069432.29 0.1884 0.1835

Jupiter 83091-10-02 17:17 G 32069699.08 32069699.22 32069699.37 0.0521 0.0280

Venus 83094-01-05 20:24 G 32070525.24 32070525.35 32070525.45 0.3633 0.0325

Jupiter 83097-05-22 06:29 G 32071757.64 32071757.77 32071757.90 0.0506 0.0078

Mars 83097-08-14 08:10 G 32071841.77 32071841.84 32071841.92 0.1626 0.1244

Venus 83098-01-04 23:46 G 32071985.35 32071985.49 32071985.64 0.3739 0.0135

Saturn 83099-03-22 04:20 G 32072426.52 32072426.68 32072426.85 0.0297 0.0105

Saturn 83099-06-19 03:08 G 32072515.47 32072515.63 32072515.80 0.0297 0.0091

Mars 83099-07-20 11:46 G 32072546.88 32072546.99 32072547.10 0.1641 0.0422

Venus 83099-07-22 12:15 G 32072548.93 32072549.01 32072549.10 0.3634 0.2165

Moon 83099-07-26 14:24 G 32072553.03 32072553.10 32072553.18 0.2621 0.2062

Earth 83099-07-26 15:22 G 32072553.06 32072553.14 32072553.21 0.2624 0.2105 *

Saturn 83099-09-16 01:27 G 32072604.51 32072604.56 32072604.62 0.0297 0.0279

Mars 83100-05-31 13:41 G 32072861.92 32072862.07 32072862.22 0.1890 0.0696

Jupiter 83103-07-22 15:22 G 32074009.14 32074009.14 32074009.15 0.0520 0.0520

Jupiter 83103-10-20 21:08 G 32074099.30 32074099.38 32074099.47 0.0523 0.0449

Earth 83106-07-20 10:05 G 32075102.83 32075102.92 32075103.01 0.2625 0.1661

Moon 83106-07-20 10:48 G 32075102.86 32075102.95 32075103.05 0.2623 0.1517 *

Mars 83108-12-10 22:34 G 32075977.33 32075977.44 32075977.56 0.1637 0.0061

Jupiter 83109-03-11 10:48 G 32076067.83 32076067.95 32076068.07 0.0506 0.0235

Jupiter 83109-06-08 17:46 G 32076157.17 32076157.24 32076157.30 0.0503 0.0440

Mars 83109-10-21 08:24 G 32076291.69 32076291.85 32076292.01 0.1896 0.0517

Uranus 83110-01-22 07:56 G 32076384.80 32076384.83 32076384.89 0.0134 0.0130

Uranus 83110-04-20 14:24 G 32076472.99 32076473.10 32076473.21 0.0134 0.0105

Uranus 83110-07-17 20:24 G 32076561.22 32076561.35 32076561.50 0.0134 0.0081

Uranus 83110-10-14 02:39 G 32076649.45 32076649.61 32076649.77 0.0134 0.0056

Uranus 83111-01-10 08:39 G 32076737.69 32076737.86 32076738.03 0.0134 0.0032

Uranus 83111-04-08 14:39 G 32076825.93 32076826.11 32076826.28 0.0134 0.0009

Uranus 83111-07-05 20:24 G 32076914.18 32076914.35 32076914.53 0.0134 0.0015

Uranus 83111-10-02 02:24 G 32077002.43 32077002.60 32077002.77 0.0134 0.0039

Uranus 83111-12-29 07:56 G 32077090.69 32077090.83 32077091.00 0.0134 0.0063

Uranus 83112-03-26 13:41 G 32077178.95 32077179.07 32077179.22 0.0134 0.0086

Uranus 83112-06-22 19:27 G 32077267.22 32077267.31 32077267.42 0.0134 0.0109

Uranus 83112-09-19 01:12 G 32077355.53 32077355.55 32077355.59 0.0134 0.0131

Saturn 83113-10-07 15:51 G 32077739.07 32077739.16 32077739.27 0.0263 0.0183

Saturn 83114-01-04 02:39 G 32077827.48 32077827.61 32077827.74 0.0263 0.0080

Saturn 83114-04-02 13:27 G 32077915.92 32077916.06 32077916.19 0.0263 0.0024

Saturn 83114-06-30 00:15 G 32078004.39 32078004.51 32078004.63 0.0263 0.0129

Saturn 83114-09-26 11:17 G 32078092.91 32078092.97 32078093.03 0.0263 0.0236

Jupiter 83115-08-08 19:56 G 32078409.18 32078409.33 32078409.49 0.0523 0.0221

Earth 83117-01-20 21:08 G 32078940.25 32078940.38 32078940.52 0.2708 0.0864

Moon 83117-01-20 22:20 G 32078940.29 32078940.43 32078940.56 0.2703 0.0809 *

Mars 83118-05-03 09:51 G 32079407.79 32079407.91 32079408.02 0.1633 0.0414

Mars 83119-03-13 03:08 G 32079721.56 32079721.63 32079721.69 0.1902 0.1745

Earth 83119-07-23 05:17 G 32079853.60 32079853.72 32079853.84 0.2624 0.0349

Moon 83119-07-23 05:32 G 32079853.61 32079853.73 32079853.85 0.2618 0.0373 *

Mars 83120-04-07 14:10 G 32080113.02 32080113.09 32080113.16 0.1650 0.1329

Jupiter 83120-12-28 15:08 G 32080378.05 32080378.13 32080378.21 0.0507 0.0396

Jupiter 83121-03-27 21:51 G 32080467.29 32080467.41 32080467.52 0.0504 0.0276

Jupiter 83127-05-27 18:58 G 32082719.12 32082719.29 32082719.46 0.0522 0.0007

Mars 83127-09-23 20:53 G 32082838.27 32082838.37 32082838.47 0.1630 0.0808

Saturn 83128-08-09 00:00 G 32083158.37 32083158.50 32083158.64 0.0297 0.0187

Saturn 83128-11-05 23:17 G 32083247.29 32083247.47 32083247.64 0.0297 0.0010

Saturn 83129-02-02 21:51 G 32083336.28 32083336.41 32083336.53 0.0297 0.0201

Mars 83129-08-29 00:58 G 32083543.44 32083543.54 32083543.64 0.1645 0.0893

Neptune 83129-10-23 17:17 G 32083599.21 32083599.22 32083599.25 0.0090 0.0089

Neptune 83130-01-19 20:10 G 32083687.27 32083687.34 32083687.44 0.0090 0.0079

Earth 83130-01-23 23:03 G 32083691.34 32083691.46 32083691.58 0.2708 0.1227

Moon 83130-01-23 23:17 G 32083691.35 32083691.47 32083691.59 0.2702 0.1332 *

Neptune 83130-04-17 23:03 G 32083775.37 32083775.46 32083775.59 0.0090 0.0069

Neptune 83130-07-15 02:10 G 32083863.47 32083863.59 32083863.74 0.0090 0.0059

Neptune 83130-10-11 05:32 G 32083951.58 32083951.73 32083951.88 0.0090 0.0048

Neptune 83131-01-07 08:24 G 32084039.69 32084039.85 32084040.01 0.0090 0.0038

Neptune 83131-04-05 11:32 G 32084127.81 32084127.98 32084128.14 0.0090 0.0028

Neptune 83131-07-02 14:24 G 32084215.93 32084216.10 32084216.27 0.0090 0.0018

Neptune 83131-09-28 17:17 G 32084304.04 32084304.22 32084304.40 0.0090 0.0008

Neptune 83131-12-25 20:10 G 32084392.17 32084392.34 32084392.52 0.0090 0.0002

Neptune 83132-03-22 23:03 G 32084480.29 32084480.46 32084480.64 0.0090 0.0012

Neptune 83132-06-19 01:56 G 32084568.41 32084568.58 32084568.75 0.0090 0.0022

Moon 83132-07-25 00:29 G 32084604.41 32084604.52 32084604.63 0.2618 0.1031

Earth 83132-07-25 00:44 G 32084604.42 32084604.53 32084604.64 0.2624 0.0995 *

Neptune 83132-09-15 04:34 G 32084656.54 32084656.69 32084656.87 0.0090 0.0032

Neptune 83132-12-12 07:41 G 32084744.67 32084744.82 32084744.98 0.0090 0.0041

Jupiter 83133-01-14 00:58 G 32084777.41 32084777.54 32084777.68 0.0505 0.0097

Neptune 83133-03-10 10:20 G 32084832.80 32084832.93 32084833.08 0.0090 0.0051

Neptune 83133-06-06 12:58 G 32084920.93 32084921.04 32084921.19 0.0090 0.0061

Neptune 83133-09-02 16:05 G 32085009.07 32085009.17 32085009.28 0.0090 0.0070

Neptune 83133-11-29 18:44 G 32085097.22 32085097.28 32085097.37 0.0090 0.0080

Neptune 83134-02-25 21:36 G 32085185.40 32085185.40 32085185.42 0.0090 0.0089

Mars 83137-02-13 08:10 G 32086268.76 32086268.84 32086268.92 0.1626 0.1202

Mars 83139-01-19 11:46 G 32086973.87 32086973.99 32086974.10 0.1641 0.0465

Jupiter 83139-03-15 17:17 G 32087029.07 32087029.22 32087029.38 0.0521 0.0241

Moon 83139-07-18 20:53 G 32087154.36 32087154.37 32087154.37 0.2626 0.2619

Mars 83139-11-30 14:24 G 32087288.95 32087289.10 32087289.25 0.1890 0.0779

Saturn 83143-02-24 18:44 G 32088471.20 32088471.28 32088471.36 0.0263 0.0211

Saturn 83143-05-24 05:17 G 32088559.60 32088559.72 32088559.85 0.0263 0.0109

Saturn 83143-08-20 16:05 G 32088648.03 32088648.17 32088648.31 0.0263 0.0006

Saturn 83143-11-17 02:53 G 32088736.50 32088736.62 32088736.75 0.0263 0.0101

Saturn 83144-02-13 13:56 G 32088825.00 32088825.08 32088825.17 0.0263 0.0207

Jupiter 83144-11-02 05:03 G 32089087.58 32089087.71 32089087.85 0.0506 0.0072

Venus 83145-01-28 01:56 G 32089174.49 32089174.58 32089174.67 0.3633 0.1802

Moon 83145-07-27 19:27 G 32089355.25 32089355.31 32089355.38 0.2622 0.2208

Earth 83145-07-27 20:24 G 32089355.30 32089355.35 32089355.40 0.2624 0.2377 *

Mars 83146-07-06 19:41 G 32089699.29 32089699.32 32089699.34 0.1623 0.1585

Mars 83148-06-10 22:34 G 32090404.33 32090404.44 32090404.56 0.1637 0.0077

Mars 83149-04-21 09:22 G 32090718.73 32090718.89 32090719.05 0.1896 0.0409

Earth 83150-01-19 00:58 G 32090991.51 32090991.54 32090991.57 0.2708 0.2628

Moon 83150-01-19 02:10 G 32090991.53 32090991.59 32090991.65 0.2707 0.2456 *

Venus 83150-08-13 17:46 G 32091198.14 32091198.24 32091198.35 0.3633 0.0626

Jupiter 83151-01-01 14:39 G 32091339.06 32091339.11 32091339.17 0.0520 0.0493

Jupiter 83151-04-01 20:24 G 32091429.28 32091429.35 32091429.42 0.0523 0.0474

Uranus 83151-10-27 21:36 G 32091638.33 32091638.40 32091638.47 0.0144 0.0124

Uranus 83152-01-24 01:27 G 32091726.47 32091726.56 32091726.66 0.0144 0.0101

Uranus 83152-04-21 05:32 G 32091814.62 32091814.73 32091814.85 0.0144 0.0078

Uranus 83152-07-18 09:36 G 32091902.78 32091902.90 32091903.04 0.0144 0.0056

Earth 83152-07-20 15:08 G 32091905.03 32091905.13 32091905.23 0.2625 0.1406

Moon 83152-07-20 15:51 G 32091905.06 32091905.16 32091905.26 0.2622 0.1343 *

Uranus 83152-10-14 13:56 G 32091990.94 32091991.08 32091991.22 0.0144 0.0032

Uranus 83153-01-10 18:00 G 32092079.11 32092079.25 32092079.39 0.0144 0.0009

Uranus 83153-04-08 22:20 G 32092167.29 32092167.43 32092167.57 0.0144 0.0015

Uranus 83153-07-06 02:24 G 32092255.47 32092255.60 32092255.74 0.0144 0.0039

Uranus 83153-10-02 06:44 G 32092343.65 32092343.78 32092343.91 0.0144 0.0062

Uranus 83153-12-29 11:03 G 32092431.85 32092431.96 32092432.07 0.0144 0.0086

Uranus 83154-03-27 15:08 G 32092520.05 32092520.13 32092520.23 0.0144 0.0110

Uranus 83154-06-23 19:27 G 32092608.27 32092608.31 32092608.37 0.0144 0.0134

Venus 83154-08-13 00:58 G 32092658.43 32092658.54 32092658.65 0.3739 0.2385

Venus 83156-02-27 09:51 G 32093221.86 32093221.91 32093221.97 0.3634 0.3096

Jupiter 83156-08-21 09:36 G 32093397.78 32093397.90 32093398.02 0.0507 0.0229

Jupiter 83156-11-18 16:20 G 32093487.12 32093487.18 32093487.24 0.0504 0.0448

Mars 83157-11-01 09:51 G 32093834.79 32093834.91 32093835.02 0.1633 0.0366

Saturn 83157-12-26 22:05 G 32093890.33 32093890.42 32093890.52 0.0298 0.0250

Saturn 83158-03-25 21:22 G 32093979.22 32093979.39 32093979.57 0.0298 0.0052

Saturn 83158-06-22 19:56 G 32094068.19 32094068.33 32094068.49 0.0298 0.0142

Mars 83158-09-11 03:36 G 32094148.57 32094148.65 32094148.72 0.1902 0.1661

Mars 83159-10-07 14:10 G 32094540.03 32094540.09 32094540.15 0.1650 0.1374

Jupiter 83163-01-18 18:58 G 32095739.14 32095739.29 32095739.44 0.0522 0.0239

Earth 83163-01-22 03:08 G 32095742.49 32095742.63 32095742.77 0.2708 0.0466

Moon 83163-01-22 04:05 G 32095742.53 32095742.67 32095742.81 0.2703 0.0307 *

Earth 83165-07-23 10:20 G 32096655.81 32096655.93 32096656.05 0.2624 0.0097

Moon 83165-07-23 10:34 G 32096655.82 32096655.94 32096656.06 0.2618 0.0084 *

Mars 83167-03-24 20:53 G 32097265.27 32097265.37 32097265.47 0.1630 0.0767

Jupiter 83168-06-09 13:56 G 32097708.00 32097708.08 32097708.17 0.0507 0.0385

Jupiter 83168-09-06 20:39 G 32097797.25 32097797.36 32097797.47 0.0504 0.0288

Mars 83169-02-27 00:58 G 32097970.44 32097970.54 32097970.63 0.1645 0.0936

Saturn 83172-07-13 20:24 G 32099203.31 32099203.35 32099203.39 0.0263 0.0249

Saturn 83172-10-10 06:58 G 32099291.68 32099291.79 32099291.90 0.0263 0.0148

Saturn 83173-01-06 17:32 G 32099380.10 32099380.23 32099380.37 0.0263 0.0045

Saturn 83173-04-05 04:20 G 32099468.55 32099468.68 32099468.82 0.0263 0.0059

Saturn 83173-07-02 15:08 G 32099557.03 32099557.13 32099557.25 0.0263 0.0166

Jupiter 83174-11-06 17:32 G 32100049.06 32100049.23 32100049.40 0.0522 0.0008

Moon 83176-01-25 04:48 G 32100493.59 32100493.70 32100493.82 0.2702 0.1532

Earth 83176-01-25 04:48 G 32100493.59 32100493.70 32100493.81 0.2708 0.1617 *

Mars 83176-08-14 08:10 G 32100695.76 32100695.84 32100695.92 0.1626 0.1160

Mars 83178-07-20 11:46 G 32101400.87 32101400.99 32101401.10 0.1641 0.0508

Moon 83178-07-26 05:17 G 32101406.61 32101406.72 32101406.83 0.2619 0.1156

Earth 83178-07-26 05:46 G 32101406.64 32101406.74 32101406.85 0.2624 0.1268 *

Mars 83179-05-31 15:08 G 32101715.99 32101716.13 32101716.28 0.1890 0.0875

Jupiter 83180-06-26 00:44 G 32102107.40 32102107.53 32102107.67 0.0505 0.0127

Earth 83185-07-19 00:58 G 32103956.50 32103956.54 32103956.58 0.2625 0.2437

Moon 83185-07-19 01:56 G 32103956.52 32103956.58 32103956.63 0.2625 0.2299 *

Mars 83186-01-04 19:27 G 32104126.28 32104126.31 32104126.35 0.1623 0.1543

Jupiter 83186-08-25 16:20 G 32104359.03 32104359.18 32104359.34 0.0521 0.0219

Saturn 83187-08-12 16:48 G 32104711.05 32104711.20 32104711.36 0.0298 0.0136

Saturn 83187-11-09 15:51 G 32104799.99 32104800.16 32104800.33 0.0298 0.0059

Mars 83187-12-10 22:34 G 32104831.32 32104831.44 32104831.56 0.1637 0.0095

Saturn 83188-02-06 14:10 G 32104889.00 32104889.09 32104889.19 0.0297 0.0250

Mars 83188-10-20 10:20 G 32105145.77 32105145.93 32105146.09 0.1896 0.0311

Moon 83191-07-29 00:29 G 32106157.52 32106157.52 32106157.53 0.2622 0.2620

Jupiter 83192-04-14 04:05 G 32106417.54 32106417.67 32106417.81 0.0506 0.0056

Uranus 83194-02-11 15:22 G 32107086.08 32107086.14 32107086.23 0.0134 0.0121

Uranus 83194-05-10 21:51 G 32107174.29 32107174.41 32107174.53 0.0134 0.0096

Uranus 83194-08-07 03:51 G 32107262.51 32107262.66 32107262.81 0.0134 0.0072

Uranus 83194-11-03 09:51 G 32107350.75 32107350.91 32107351.08 0.0134 0.0048

Uranus 83195-01-30 15:51 G 32107438.99 32107439.16 32107439.34 0.0134 0.0025

Uranus 83195-04-28 21:51 G 32107527.24 32107527.41 32107527.59 0.0134 0.0003

Uranus 83195-07-26 03:51 G 32107615.49 32107615.66 32107615.83 0.0134 0.0023

Uranus 83195-10-22 09:36 G 32107703.74 32107703.90 32107704.07 0.0134 0.0047

Uranus 83196-01-18 15:22 G 32107792.00 32107792.14 32107792.30 0.0134 0.0070

Earth 83196-01-20 06:58 G 32107793.71 32107793.79 32107793.87 0.2708 0.2216

Moon 83196-01-20 08:10 G 32107793.76 32107793.84 32107793.93 0.2705 0.2119 *

Venus 83196-02-19 07:41 G 32107823.77 32107823.82 32107823.86 0.3632 0.3291

Uranus 83196-04-15 21:08 G 32107880.27 32107880.38 32107880.51 0.0134 0.0094

Uranus 83196-07-13 02:53 G 32107968.55 32107968.62 32107968.71 0.0134 0.0116

Mars 83197-05-02 09:51 G 32108261.79 32108261.91 32108262.02 0.1633 0.0324

Mars 83198-03-12 04:20 G 32108575.59 32108575.68 32108575.78 0.1902 0.1557

Jupiter 83198-06-13 14:39 G 32108669.04 32108669.11 32108669.20 0.0520 0.0454

Earth 83198-07-21 20:10 G 32108707.23 32108707.34 32108707.44 0.2625 0.1146

Moon 83198-07-21 20:39 G 32108707.25 32108707.36 32108707.47 0.2621 0.1072 *

Jupiter 83198-09-11 20:24 G 32108759.32 32108759.35 32108759.38 0.0523 0.0513

Mars 83199-04-07 14:10 G 32108967.03 32108967.09 32108967.15 0.1650 0.1418

Venus 83201-09-03 23:32 G 32109847.37 32109847.48 32109847.58 0.3633 0.0914

Saturn 83202-02-27 09:36 G 32110023.81 32110023.90 32110024.01 0.0263 0.0176

Saturn 83202-05-26 20:24 G 32110112.22 32110112.35 32110112.48 0.0263 0.0074

Saturn 83202-08-23 07:12 G 32110200.66 32110200.80 32110200.93 0.0263 0.0031

Saturn 83202-11-19 18:00 G 32110289.13 32110289.25 32110289.37 0.0263 0.0136

Saturn 83203-02-16 05:03 G 32110377.66 32110377.71 32110377.76 0.0263 0.0243

Jupiter 83204-02-01 08:10 G 32110727.72 32110727.84 32110727.96 0.0507 0.0221

Jupiter 83204-04-30 14:53 G 32110817.07 32110817.12 32110817.18 0.0504 0.0456

Venus 83205-09-02 20:24 G 32111307.24 32111307.35 32111307.47 0.3740 0.2192

Mars 83206-09-22 20:53 G 32111692.26 32111692.37 32111692.47 0.1630 0.0722

Venus 83207-03-20 15:22 G 32111871.04 32111871.14 32111871.24 0.3633 0.1531

Mars 83208-08-28 00:58 G 32112397.44 32112397.54 32112397.63 0.1645 0.0981

Earth 83209-01-22 09:08 G 32112544.74 32112544.88 32112545.02 0.2708 0.0068

Moon 83209-01-22 09:51 G 32112544.77 32112544.91 32112545.06 0.2703 0.0074 *

Jupiter 83210-06-30 18:15 G 32113069.11 32113069.26 32113069.40 0.0522 0.0266

Earth 83211-07-24 15:22 G 32113458.02 32113458.14 32113458.26 0.2624 0.0180

Moon 83211-07-24 15:36 G 32113458.03 32113458.15 32113458.27 0.2618 0.0177 *

Neptune 83211-10-17 18:00 G 32113543.22 32113543.25 32113543.32 0.0088 0.0082

Neptune 83212-01-13 19:56 G 32113631.26 32113631.33 32113631.40 0.0088 0.0074

Neptune 83212-04-10 21:22 G 32113719.30 32113719.39 32113719.48 0.0088 0.0067

Neptune 83212-07-07 22:48 G 32113807.35 32113807.45 32113807.56 0.0088 0.0060

Neptune 83212-10-04 00:15 G 32113895.41 32113895.51 32113895.63 0.0088 0.0052

Neptune 83212-12-31 01:56 G 32113983.46 32113983.58 32113983.70 0.0088 0.0045

Neptune 83213-03-29 03:22 G 32114071.52 32114071.64 32114071.78 0.0088 0.0038

Neptune 83213-06-25 05:03 G 32114159.58 32114159.71 32114159.85 0.0088 0.0030

Neptune 83213-09-21 06:29 G 32114247.64 32114247.77 32114247.92 0.0088 0.0023

Neptune 83213-12-18 08:10 G 32114335.70 32114335.84 32114335.98 0.0088 0.0015

Neptune 83214-03-16 09:51 G 32114423.77 32114423.91 32114424.05 0.0088 0.0008

Neptune 83214-06-12 11:17 G 32114511.83 32114511.97 32114512.12 0.0088 0.0002

Neptune 83214-09-08 12:58 G 32114599.90 32114600.04 32114600.18 0.0088 0.0008

Neptune 83214-12-05 14:24 G 32114687.96 32114688.10 32114688.25 0.0088 0.0015

Neptune 83215-03-03 16:05 G 32114776.03 32114776.17 32114776.31 0.0088 0.0023

Neptune 83215-05-30 17:32 G 32114864.10 32114864.23 32114864.37 0.0088 0.0031

Neptune 83215-08-26 19:12 G 32114952.18 32114952.30 32114952.43 0.0088 0.0038

Jupiter 83215-11-20 12:29 G 32115037.94 32115038.02 32115038.11 0.0508 0.0380

Neptune 83215-11-22 20:39 G 32115040.25 32115040.36 32115040.49 0.0088 0.0046

Mars 83216-02-13 08:10 G 32115122.75 32115122.84 32115122.92 0.1626 0.1116

Jupiter 83216-02-17 19:12 G 32115127.19 32115127.30 32115127.41 0.0505 0.0295

Neptune 83216-02-18 22:20 G 32115128.33 32115128.43 32115128.55 0.0088 0.0054

Neptune 83216-05-17 00:00 G 32115216.40 32115216.50 32115216.61 0.0088 0.0061

Neptune 83216-08-13 01:27 G 32115304.49 32115304.56 32115304.66 0.0088 0.0069

Neptune 83216-11-09 03:08 G 32115392.58 32115392.63 32115392.71 0.0088 0.0077

Saturn 83216-12-29 15:08 G 32115443.01 32115443.13 32115443.27 0.0298 0.0196

Neptune 83217-02-05 05:03 G 32115480.68 32115480.71 32115480.75 0.0088 0.0084

Saturn 83217-03-28 14:24 G 32115531.93 32115532.10 32115532.28 0.0298 0.0005

Saturn 83217-06-25 12:58 G 32115620.91 32115621.04 32115621.17 0.0298 0.0194

Mars 83218-01-18 11:46 G 32115827.88 32115827.99 32115828.10 0.1641 0.0553

Mars 83218-11-29 15:51 G 32116143.02 32116143.16 32116143.30 0.1890 0.0961

Moon 83222-01-25 10:34 G 32117295.85 32117295.94 32117296.03 0.2701 0.2014

Earth 83222-01-25 10:48 G 32117295.86 32117295.95 32117296.04 0.2708 0.1999 *

Jupiter 83222-04-18 16:34 G 32117379.02 32117379.19 32117379.36 0.0521 0.0030

Moon 83224-07-26 10:20 G 32118208.83 32118208.93 32118209.03 0.2620 0.1514

Earth 83224-07-26 10:48 G 32118208.86 32118208.95 32118209.05 0.2624 0.1536 *

Mars 83225-07-05 19:27 G 32118553.27 32118553.31 32118553.35 0.1623 0.1502

Mars 83227-06-10 22:34 G 32119258.32 32119258.44 32119258.56 0.1637 0.0138

Jupiter 83227-12-06 23:32 G 32119437.35 32119437.48 32119437.61 0.0505 0.0136

Mars 83228-04-20 10:48 G 32119572.79 32119572.95 32119573.11 0.1896 0.0230

Saturn 83231-07-17 11:32 G 32120755.90 32120755.98 32120756.06 0.0263 0.0213

Earth 83231-07-20 06:00 G 32120758.69 32120758.75 32120758.81 0.2625 0.2182

Moon 83231-07-20 06:44 G 32120758.72 32120758.78 32120758.85 0.2625 0.2136 *

Saturn 83231-10-13 22:05 G 32120844.30 32120844.42 32120844.54 0.0263 0.0111

Saturn 83232-01-10 08:39 G 32120932.72 32120932.86 32120933.00 0.0263 0.0010

Saturn 83232-04-07 19:27 G 32121021.18 32121021.31 32121021.44 0.0263 0.0097

Saturn 83232-07-05 06:29 G 32121109.68 32121109.77 32121109.86 0.0263 0.0203

Jupiter 83234-02-04 14:53 G 32121688.96 32121689.12 32121689.28 0.0521 0.0208

Uranus 83235-08-21 00:29 G 32122251.50 32122251.52 32122251.56 0.0144 0.0140

Uranus 83235-11-17 04:34 G 32122339.62 32122339.69 32122339.78 0.0144 0.0118

Uranus 83236-02-13 08:53 G 32122427.77 32122427.87 32122427.97 0.0144 0.0094

Uranus 83236-05-11 12:58 G 32122515.92 32122516.04 32122516.16 0.0144 0.0071

Uranus 83236-08-07 17:03 G 32122604.08 32122604.21 32122604.34 0.0144 0.0048

Mars 83236-10-31 09:36 G 32122688.78 32122688.90 32122689.02 0.1633 0.0281

Uranus 83236-11-03 21:08 G 32122692.25 32122692.38 32122692.52 0.0144 0.0026

Uranus 83237-01-31 01:27 G 32122780.42 32122780.56 32122780.70 0.0144 0.0002

Uranus 83237-04-29 05:32 G 32122868.59 32122868.73 32122868.87 0.0144 0.0022

Uranus 83237-07-26 09:51 G 32122956.78 32122956.91 32122957.04 0.0144 0.0045

Mars 83237-09-10 05:17 G 32123002.62 32123002.72 32123002.83 0.1902 0.1455

Uranus 83237-10-22 14:10 G 32123044.96 32123045.09 32123045.21 0.0144 0.0069

Uranus 83238-01-18 18:15 G 32123133.16 32123133.26 32123133.38 0.0144 0.0093

Uranus 83238-04-16 22:34 G 32123221.37 32123221.44 32123221.53 0.0144 0.0117

Uranus 83238-07-14 03:08 G 32123309.61 32123309.63 32123309.65 0.0144 0.0141

Mars 83238-10-06 14:10 G 32123394.04 32123394.09 32123394.14 0.1650 0.1459

Jupiter 83239-09-25 03:51 G 32123747.52 32123747.66 32123747.79 0.0506 0.0028

Earth 83242-01-20 12:58 G 32124595.93 32124596.04 32124596.14 0.2708 0.1816

Moon 83242-01-20 14:10 G 32124595.98 32124596.09 32124596.20 0.2705 0.1587 *

Pluto 83244-03-23 07:27 G 32125388.75 32125388.81 32125388.90 0.0062 0.0055

Pluto 83244-06-19 08:39 G 32125476.75 32125476.86 32125476.98 0.0062 0.0044

Earth 83244-07-22 00:58 G 32125509.43 32125509.54 32125509.66 0.2625 0.0892

Moon 83244-07-22 01:41 G 32125509.45 32125509.57 32125509.68 0.2619 0.0799 *

Pluto 83244-09-15 09:22 G 32125564.76 32125564.89 32125565.04 0.0062 0.0034

Pluto 83244-12-12 10:34 G 32125652.78 32125652.94 32125653.10 0.0062 0.0024

Pluto 83245-03-10 11:17 G 32125740.81 32125740.97 32125741.15 0.0062 0.0014

Pluto 83245-06-06 12:29 G 32125828.85 32125829.02 32125829.19 0.0062 0.0003

Pluto 83245-09-02 13:27 G 32125916.89 32125917.06 32125917.23 0.0062 0.0008

Jupiter 83245-11-23 13:41 G 32125998.98 32125999.07 32125999.16 0.0520 0.0434

Pluto 83245-11-29 14:10 G 32126004.94 32126005.09 32126005.26 0.0063 0.0019

Pluto 83246-02-25 15:22 G 32126092.99 32126093.14 32126093.29 0.0063 0.0029

Mars 83246-03-23 20:53 G 32126119.26 32126119.37 32126119.48 0.1630 0.0678

Saturn 83246-05-18 10:20 G 32126174.88 32126174.93 32126174.99 0.0298 0.0282

Pluto 83246-05-24 16:05 G 32126181.05 32126181.17 32126181.31 0.0063 0.0040

Saturn 83246-08-15 09:51 G 32126263.74 32126263.91 32126264.08 0.0298 0.0084

Pluto 83246-08-20 16:48 G 32126269.12 32126269.20 32126269.32 0.0063 0.0051

Saturn 83246-11-12 08:39 G 32126352.70 32126352.86 32126353.02 0.0298 0.0111

Pluto 83246-11-16 18:00 G 32126357.22 32126357.25 32126357.30 0.0063 0.0061

Mars 83248-02-27 00:44 G 32126824.44 32126824.53 32126824.63 0.1645 0.1021

Jupiter 83251-07-14 07:12 G 32128057.68 32128057.80 32128057.92 0.0507 0.0208

Jupiter 83251-10-11 13:56 G 32128147.03 32128147.08 32128147.13 0.0504 0.0468

Venus 83252-09-25 05:03 G 32128496.63 32128496.71 32128496.79 0.3632 0.2401

Earth 83255-01-23 15:08 G 32129346.99 32129347.13 32129347.26 0.2708 0.0339

Moon 83255-01-23 15:36 G 32129347.01 32129347.15 32129347.29 0.2703 0.0378 *

Mars 83255-08-14 08:10 G 32129549.75 32129549.84 32129549.92 0.1626 0.1073

Mars 83257-07-19 11:46 G 32130254.88 32130254.99 32130255.10 0.1641 0.0597

Moon 83257-07-24 20:24 G 32130260.23 32130260.35 32130260.47 0.2618 0.0464

Earth 83257-07-24 20:24 G 32130260.23 32130260.35 32130260.47 0.2625 0.0446 *

Jupiter 83257-12-10 18:00 G 32130399.12 32130399.25 32130399.39 0.0522 0.0303

Venus 83258-04-10 20:53 G 32130520.26 32130520.37 32130520.48 0.3633 0.0021

Mars 83258-05-30 16:48 G 32130570.06 32130570.20 32130570.33 0.1890 0.1054

Saturn 83260-12-03 14:10 G 32131488.05 32131488.09 32131488.15 0.0263 0.0241

Saturn 83261-03-02 00:44 G 32131576.42 32131576.53 32131576.65 0.0263 0.0139

Saturn 83261-05-29 11:32 G 32131664.84 32131664.98 32131665.12 0.0263 0.0036

Saturn 83261-08-25 22:20 G 32131753.29 32131753.43 32131753.56 0.0263 0.0069

Saturn 83261-11-22 09:08 G 32131841.78 32131841.88 32131841.99 0.0263 0.0175

Venus 83262-04-09 21:36 G 32131980.26 32131980.40 32131980.55 0.3739 0.0172

Jupiter 83263-05-02 11:03 G 32132367.88 32132367.96 32132368.05 0.0507 0.0374

Jupiter 83263-07-30 17:46 G 32132457.14 32132457.24 32132457.35 0.0505 0.0301

Venus 83263-10-25 12:58 G 32132543.96 32132544.04 32132544.11 0.3633 0.2453

Mars 83265-01-03 19:27 G 32132980.26 32132980.31 32132980.36 0.1623 0.1456

Mars 83266-12-09 22:34 G 32133685.32 32133685.44 32133685.56 0.1637 0.0177

Mars 83267-10-20 11:46 G 32133999.82 32133999.99 32134000.15 0.1896 0.0134

Moon 83268-01-26 16:20 G 32134098.11 32134098.18 32134098.25 0.2701 0.2305

Earth 83268-01-26 16:34 G 32134098.13 32134098.19 32134098.26 0.2708 0.2386 *

Jupiter 83269-09-28 15:36 G 32134708.98 32134709.15 32134709.32 0.0521 0.0054

Moon 83270-07-27 15:22 G 32135011.05 32135011.14 32135011.23 0.2620 0.1688

Earth 83270-07-27 16:05 G 32135011.08 32135011.17 32135011.25 0.2624 0.1817 *

Jupiter 83275-05-18 22:05 G 32136767.29 32136767.42 32136767.55 0.0505 0.0140

Saturn 83276-01-02 08:53 G 32136995.71 32136995.87 32136996.03 0.0298 0.0138

Saturn 83276-03-31 07:56 G 32137084.66 32137084.83 32137085.00 0.0298 0.0058

Mars 83276-05-01 09:36 G 32137115.79 32137115.90 32137116.02 0.1633 0.0238

Saturn 83276-06-28 06:15 G 32137173.67 32137173.76 32137173.86 0.0298 0.0249

Mars 83277-03-11 06:00 G 32137429.64 32137429.75 32137429.86 0.1902 0.1365

Earth 83277-07-20 11:03 G 32137560.88 32137560.96 32137561.04 0.2625 0.1930

Moon 83277-07-20 11:46 G 32137560.90 32137560.99 32137561.08 0.2624 0.1775 *

Uranus 83278-03-03 22:48 G 32137787.37 32137787.45 32137787.56 0.0134 0.0113

Mars 83278-04-06 14:10 G 32137821.04 32137821.09 32137821.14 0.1650 0.1504

Uranus 83278-05-31 05:03 G 32137875.58 32137875.71 32137875.85 0.0134 0.0088

Uranus 83278-08-27 11:17 G 32137963.81 32137963.97 32137964.13 0.0134 0.0064

Uranus 83278-11-23 17:17 G 32138052.05 32138052.22 32138052.39 0.0134 0.0040

Uranus 83279-02-19 23:17 G 32138140.29 32138140.47 32138140.65 0.0134 0.0016

Uranus 83279-05-19 05:17 G 32138228.54 32138228.72 32138228.89 0.0134 0.0008

Uranus 83279-08-15 11:03 G 32138316.79 32138316.96 32138317.14 0.0134 0.0031

Uranus 83279-11-11 17:03 G 32138405.05 32138405.21 32138405.37 0.0134 0.0054

Uranus 83280-02-07 22:34 G 32138493.31 32138493.44 32138493.59 0.0134 0.0078

Uranus 83280-05-06 04:20 G 32138581.58 32138581.68 32138581.81 0.0134 0.0101

Uranus 83280-08-02 10:05 G 32138669.87 32138669.92 32138670.00 0.0134 0.0124

Jupiter 83281-07-17 13:41 G 32139018.91 32139019.07 32139019.23 0.0520 0.0190

Mars 83285-09-21 20:53 G 32140546.26 32140546.37 32140546.47 0.1630 0.0639

Jupiter 83287-03-07 02:24 G 32141077.47 32141077.60 32141077.74 0.0506 0.0022

Mars 83287-08-28 00:58 G 32141251.45 32141251.54 32141251.63 0.1645 0.1067

Earth 83288-01-21 18:58 G 32141398.17 32141398.29 32141398.41 0.2708 0.1404

Moon 83288-01-21 20:10 G 32141398.22 32141398.34 32141398.46 0.2705 0.1339 *

Saturn 83290-07-20 02:53 G 32142308.52 32142308.62 32142308.72 0.0263 0.0174

Earth 83290-07-23 06:00 G 32142311.64 32142311.75 32142311.87 0.2624 0.0632

Moon 83290-07-23 06:44 G 32142311.66 32142311.78 32142311.89 0.2619 0.0615 *

Saturn 83290-10-16 13:27 G 32142396.93 32142397.06 32142397.19 0.0263 0.0071

Saturn 83291-01-13 00:15 G 32142485.37 32142485.51 32142485.64 0.0263 0.0033

Saturn 83291-04-11 11:03 G 32142573.84 32142573.96 32142574.08 0.0263 0.0138

Saturn 83291-07-08 22:05 G 32142662.37 32142662.42 32142662.47 0.0263 0.0244

Jupiter 83293-05-05 11:46 G 32143328.90 32143328.99 32143329.09 0.0520 0.0429

Neptune 83294-07-20 15:22 G 32143770.10 32143770.14 32143770.21 0.0090 0.0085

Neptune 83294-10-16 18:29 G 32143858.19 32143858.27 32143858.38 0.0090 0.0075

Neptune 83295-01-12 21:22 G 32143946.29 32143946.39 32143946.53 0.0090 0.0065

Mars 83295-02-12 07:56 G 32143976.74 32143976.83 32143976.92 0.1626 0.1031

Neptune 83295-04-11 00:29 G 32144034.39 32144034.52 32144034.67 0.0090 0.0055

Neptune 83295-07-08 03:51 G 32144122.50 32144122.66 32144122.81 0.0090 0.0044

Neptune 83295-10-04 06:44 G 32144210.62 32144210.78 32144210.95 0.0090 0.0034

Neptune 83295-12-31 09:36 G 32144298.74 32144298.90 32144299.08 0.0090 0.0024

Neptune 83296-03-28 12:44 G 32144386.85 32144387.03 32144387.20 0.0090 0.0014

Neptune 83296-06-24 15:36 G 32144474.97 32144475.15 32144475.33 0.0090 0.0004

Neptune 83296-09-20 18:29 G 32144563.10 32144563.27 32144563.45 0.0090 0.0006

Neptune 83296-12-17 21:22 G 32144651.22 32144651.39 32144651.57 0.0090 0.0016

Mars 83297-01-17 11:32 G 32144681.87 32144681.98 32144682.09 0.1641 0.0636

Neptune 83297-03-16 00:15 G 32144739.35 32144739.51 32144739.68 0.0090 0.0026

Neptune 83297-06-12 03:08 G 32144827.48 32144827.63 32144827.80 0.0090 0.0036

Neptune 83297-09-08 05:46 G 32144915.60 32144915.74 32144915.91 0.0090 0.0046

Mars 83297-11-28 17:32 G 32144997.10 32144997.23 32144997.35 0.1890 0.1139

Neptune 83297-12-05 08:53 G 32145003.74 32145003.87 32145004.01 0.0090 0.0055

Neptune 83298-03-03 11:32 G 32145091.87 32145091.98 32145092.11 0.0090 0.0065

Neptune 83298-05-30 14:10 G 32145180.02 32145180.09 32145180.21 0.0090 0.0075

Neptune 83298-08-26 17:17 G 32145268.17 32145268.22 32145268.29 0.0090 0.0084

Jupiter 83298-12-24 06:44 G 32145387.65 32145387.78 32145387.91 0.0506 0.0181

Jupiter 83299-03-23 13:27 G 32145477.04 32145477.06 32145477.09 0.0504 0.0496

Earth 83301-01-24 20:53 G 32146149.24 32146149.37 32146149.50 0.2708 0.0720

Moon 83301-01-24 21:08 G 32146149.25 32146149.38 32146149.52 0.2702 0.0803 *

Moon 83303-07-27 01:12 G 32147062.44 32147062.55 32147062.67 0.2618 0.0711

Earth 83303-07-27 01:27 G 32147062.45 32147062.56 32147062.68 0.2624 0.0716 *

Mars 83304-07-05 19:27 G 32147407.25 32147407.31 32147407.37 0.1623 0.1413

Saturn 83305-05-22 04:20 G 32147727.57 32147727.68 32147727.80 0.0297 0.0221

Jupiter 83305-05-23 16:48 G 32147729.07 32147729.20 32147729.34 0.0522 0.0318

Saturn 83305-08-19 03:36 G 32147816.48 32147816.65 32147816.83 0.0297 0.0024

Saturn 83305-11-16 02:24 G 32147905.46 32147905.60 32147905.74 0.0297 0.0170

Mars 83306-06-10 22:34 G 32148112.32 32148112.44 32148112.56 0.1637 0.0220

Mars 83307-04-21 12:44 G 32148426.86 32148427.03 32148427.19 0.1896 0.0052

Venus 83309-05-03 02:24 G 32149169.51 32149169.60 32149169.70 0.3632 0.1527

Jupiter 83310-10-13 10:05 G 32149697.83 32149697.92 32149698.01 0.0507 0.0362

Jupiter 83311-01-10 16:34 G 32149787.09 32149787.19 32149787.30 0.0504 0.0312

Venus 83314-11-16 18:29 G 32151193.16 32151193.27 32151193.37 0.3633 0.0909

Mars 83315-11-01 09:36 G 32151542.79 32151542.90 32151543.02 0.1633 0.0194

Moon 83316-07-28 20:24 G 32151813.27 32151813.35 32151813.42 0.2620 0.2030

Earth 83316-07-28 21:08 G 32151813.30 32151813.38 32151813.45 0.2624 0.2087 *

Mars 83316-09-10 06:44 G 32151856.66 32151856.78 32151856.90 0.1902 0.1270

Jupiter 83317-03-11 15:22 G 32152038.97 32152039.14 32152039.31 0.0521 0.0086

Mars 83317-10-06 14:10 G 32152248.05 32152248.09 32152248.13 0.1650 0.1549

Venus 83318-11-15 22:48 G 32152653.34 32152653.45 32152653.55 0.3739 0.2444

Uranus 83319-09-11 07:27 G 32152952.77 32152952.81 32152952.86 0.0144 0.0135

Saturn 83319-12-08 05:46 G 32153040.65 32153040.74 32153040.82 0.0263 0.0202

Uranus 83319-12-08 11:46 G 32153040.90 32153040.99 32153041.07 0.0144 0.0112

Uranus 83320-03-05 15:51 G 32153129.05 32153129.16 32153129.27 0.0144 0.0090

Saturn 83320-03-05 16:20 G 32153129.05 32153129.18 32153129.31 0.0263 0.0099 *

Venus 83320-06-01 10:20 G 32153216.90 32153216.93 32153216.97 0.3633 0.3371

Uranus 83320-06-01 19:56 G 32153217.21 32153217.33 32153217.45 0.0144 0.0067

Saturn 83320-06-02 02:53 G 32153217.49 32153217.62 32153217.76 0.0263 0.0009

Uranus 83320-08-29 00:00 G 32153305.37 32153305.50 32153305.63 0.0144 0.0043

Saturn 83320-08-29 13:41 G 32153305.95 32153306.07 32153306.20 0.0263 0.0110

Uranus 83320-11-25 04:05 G 32153393.54 32153393.67 32153393.81 0.0144 0.0021

Saturn 83320-11-26 00:44 G 32153394.46 32153394.53 32153394.61 0.0263 0.0216

Uranus 83321-02-21 08:24 G 32153481.71 32153481.85 32153481.99 0.0144 0.0003

Uranus 83321-05-20 12:29 G 32153569.89 32153570.02 32153570.16 0.0144 0.0028

Uranus 83321-08-16 16:48 G 32153658.07 32153658.20 32153658.33 0.0144 0.0051

Uranus 83321-11-12 21:08 G 32153746.26 32153746.38 32153746.50 0.0144 0.0075

Uranus 83322-02-09 01:27 G 32153834.46 32153834.56 32153834.66 0.0144 0.0099

Uranus 83322-05-08 05:32 G 32153922.67 32153922.73 32153922.81 0.0144 0.0123

Jupiter 83322-10-29 20:39 G 32154097.23 32154097.36 32154097.49 0.0505 0.0143

Earth 83323-07-22 15:51 G 32154363.07 32154363.16 32154363.25 0.2625 0.1679

Moon 83323-07-22 16:48 G 32154363.10 32154363.20 32154363.29 0.2622 0.1658 *

Mars 83325-03-23 20:39 G 32154973.26 32154973.36 32154973.47 0.1630 0.0596

Mars 83327-02-27 00:58 G 32155678.45 32155678.54 32155678.62 0.1645 0.1111

Jupiter 83328-12-28 12:44 G 32156348.87 32156349.03 32156349.19 0.0520 0.0168

Earth 83334-01-23 00:58 G 32158200.41 32158200.54 32158200.67 0.2708 0.1004

Moon 83334-01-23 01:56 G 32158200.44 32158200.58 32158200.72 0.2705 0.0782 *

Mars 83334-08-14 07:56 G 32158403.74 32158403.83 32158403.93 0.1626 0.0988

Jupiter 83334-08-18 00:44 G 32158407.40 32158407.53 32158407.67 0.0506 0.0023

Saturn 83334-10-09 03:51 G 32158459.59 32158459.66 32158459.73 0.0298 0.0273

Saturn 83335-01-06 03:08 G 32158548.46 32158548.63 32158548.80 0.0298 0.0074

Saturn 83335-04-05 01:56 G 32158637.42 32158637.58 32158637.74 0.0298 0.0120

Pluto 83335-08-08 00:00 G 32158762.44 32158762.50 32158762.59 0.0082 0.0071

Pluto 83335-11-04 01:41 G 32158850.46 32158850.57 32158850.70 0.0082 0.0050

Pluto 83336-01-31 03:08 G 32158938.50 32158938.63 32158938.78 0.0081 0.0030

Pluto 83336-04-28 04:48 G 32159026.55 32159026.70 32159026.85 0.0081 0.0009

Mars 83336-07-19 11:32 G 32159108.88 32159108.98 32159109.09 0.1641 0.0685

Earth 83336-07-24 11:03 G 32159113.85 32159113.96 32159114.08 0.2625 0.0377

Moon 83336-07-24 11:32 G 32159113.86 32159113.98 32159114.10 0.2619 0.0264 *

Pluto 83336-07-25 06:15 G 32159114.62 32159114.76 32159114.91 0.0081 0.0012

Pluto 83336-10-21 07:41 G 32159202.69 32159202.82 32159202.96 0.0081 0.0032

Pluto 83337-01-17 08:53 G 32159290.77 32159290.87 32159291.00 0.0081 0.0053

Pluto 83337-04-15 10:34 G 32159378.88 32159378.94 32159379.01 0.0081 0.0073

Mars 83337-05-30 18:15 G 32159424.14 32159424.26 32159424.38 0.1890 0.1230

Jupiter 83340-10-16 10:34 G 32160658.84 32160658.94 32160659.04 0.0520 0.0413

Mars 83344-01-04 19:12 G 32161834.24 32161834.30 32161834.36 0.1623 0.1376

Mars 83345-12-09 22:34 G 32162539.32 32162539.44 32162539.56 0.1637 0.0261

Jupiter 83346-06-06 05:03 G 32162717.59 32162717.71 32162717.84 0.0507 0.0179

Jupiter 83346-09-03 12:00 G 32162806.99 32162807.00 32162807.01 0.0504 0.0499

Mars 83346-10-20 12:58 G 32162853.88 32162854.04 32162854.21 0.1896 0.0054

Earth 83347-01-26 02:53 G 32162951.49 32162951.62 32162951.74 0.2709 0.1116

Moon 83347-01-26 02:53 G 32162951.50 32162951.62 32162951.75 0.2701 0.1061 *

Saturn 83349-04-26 08:10 G 32163772.78 32163772.84 32163772.90 0.0263 0.0232

Saturn 83349-07-23 18:44 G 32163861.16 32163861.28 32163861.40 0.0263 0.0131

Moon 83349-07-27 06:15 G 32163864.65 32163864.76 32163864.87 0.2618 0.0903

Earth 83349-07-27 06:29 G 32163864.66 32163864.77 32163864.89 0.2624 0.0990 *

Saturn 83349-10-20 05:17 G 32163949.58 32163949.72 32163949.86 0.0263 0.0028

Saturn 83350-01-16 16:05 G 32164038.04 32164038.17 32164038.30 0.0263 0.0076

Saturn 83350-04-15 02:53 G 32164126.53 32164126.62 32164126.73 0.0263 0.0183

Jupiter 83352-11-02 14:39 G 32165058.98 32165059.11 32165059.25 0.0522 0.0318

Mars 83355-05-02 09:36 G 32165969.78 32165969.90 32165970.02 0.1633 0.0152

Mars 83356-03-11 07:56 G 32166283.70 32166283.83 32166283.96 0.1902 0.1159

Mars 83357-04-06 14:10 G 32166675.06 32166675.09 32166675.12 0.1650 0.1588

Jupiter 83358-03-25 09:22 G 32167027.80 32167027.89 32167027.99 0.0507 0.0340

Jupiter 83358-06-22 16:05 G 32167117.07 32167117.17 32167117.27 0.0504 0.0335

Venus 83360-05-24 08:10 G 32167818.78 32167818.84 32167818.90 0.3632 0.3000

Uranus 83361-12-27 00:15 G 32168400.47 32168400.51 32168400.58 0.0134 0.0128

Uranus 83362-03-25 06:44 G 32168488.67 32168488.78 32168488.89 0.0134 0.0103

Uranus 83362-06-21 12:44 G 32168576.89 32168577.03 32168577.18 0.0134 0.0079

Moon 83362-07-30 01:27 G 32168615.50 32168615.56 32168615.62 0.2621 0.2265

Earth 83362-07-30 02:10 G 32168615.54 32168615.59 32168615.64 0.2624 0.2363 *

Uranus 83362-09-17 18:44 G 32168665.13 32168665.28 32168665.45 0.0134 0.0055

Uranus 83362-12-15 00:58 G 32168753.37 32168753.54 32168753.71 0.0134 0.0031

Uranus 83363-03-13 06:58 G 32168841.61 32168841.79 32168841.97 0.0134 0.0007

Uranus 83363-06-09 12:44 G 32168929.86 32168930.03 32168930.21 0.0134 0.0017

Uranus 83363-09-05 18:44 G 32169018.11 32169018.28 32169018.45 0.0134 0.0040

Uranus 83363-12-03 00:29 G 32169106.37 32169106.52 32169106.68 0.0134 0.0064

Uranus 83364-02-29 06:15 G 32169194.64 32169194.76 32169194.90 0.0134 0.0087

Saturn 83364-05-24 23:17 G 32169280.32 32169280.47 32169280.62 0.0297 0.0152

Uranus 83364-05-27 12:00 G 32169282.91 32169283.00 32169283.11 0.0134 0.0110

Jupiter 83364-08-21 13:41 G 32169368.90 32169369.07 32169369.24 0.0522 0.0094

Saturn 83364-08-21 22:20 G 32169369.26 32169369.43 32169369.61 0.0297 0.0044

Uranus 83364-08-23 17:46 G 32169371.23 32169371.24 32169371.27 0.0134 0.0133

Mars 83364-09-21 20:53 G 32169400.25 32169400.37 32169400.48 0.1630 0.0552

Saturn 83364-11-18 20:53 G 32169458.27 32169458.37 32169458.48 0.0297 0.0235

Venus 83365-12-08 00:00 G 32169842.40 32169842.50 32169842.60 0.3632 0.0623

Mars 83366-08-28 00:44 G 32170105.45 32170105.53 32170105.62 0.1645 0.1152

Moon 83367-01-21 06:00 G 32170251.70 32170251.75 32170251.79 0.2707 0.2532

Earth 83369-07-22 20:53 G 32171165.27 32171165.37 32171165.47 0.2625 0.1422

Moon 83369-07-22 21:36 G 32171165.30 32171165.40 32171165.51 0.2621 0.1267 *

Venus 83369-12-06 18:00 G 32171302.14 32171302.25 32171302.37 0.3740 0.2147

Jupiter 83370-04-10 19:12 G 32171427.17 32171427.30 32171427.43 0.0505 0.0152

Venus 83371-06-23 15:51 G 32171866.07 32171866.16 32171866.26 0.3633 0.1826

Mars 83374-02-12 07:56 G 32172830.74 32172830.83 32172830.93 0.1626 0.0944

Mars 83376-01-18 11:46 G 32173535.88 32173535.99 32173536.09 0.1641 0.0728

Neptune 83376-04-17 15:51 G 32173626.14 32173626.16 32173626.20 0.0088 0.0086

Jupiter 83376-06-09 12:00 G 32173678.84 32173679.00 32173679.17 0.0521 0.0142

Neptune 83376-07-14 17:17 G 32173714.17 32173714.22 32173714.30 0.0088 0.0079

Neptune 83376-10-10 18:58 G 32173802.22 32173802.29 32173802.38 0.0088 0.0071

Mars 83376-11-28 18:44 G 32173851.17 32173851.28 32173851.40 0.1890 0.1316

Neptune 83377-01-06 20:24 G 32173890.27 32173890.35 32173890.46 0.0088 0.0064

Neptune 83377-04-04 21:51 G 32173978.32 32173978.41 32173978.53 0.0088 0.0057

Neptune 83377-07-01 23:46 G 32174066.37 32174066.49 32174066.60 0.0088 0.0049

Neptune 83377-09-28 01:12 G 32174154.43 32174154.55 32174154.68 0.0088 0.0042

Neptune 83377-12-25 02:39 G 32174242.49 32174242.61 32174242.75 0.0088 0.0034

Neptune 83378-03-23 04:20 G 32174330.54 32174330.68 32174330.81 0.0088 0.0027

Neptune 83378-06-19 05:46 G 32174418.60 32174418.74 32174418.88 0.0088 0.0020

Saturn 83378-09-13 11:03 G 32174504.94 32174504.96 32174504.98 0.0263 0.0260

Neptune 83378-09-15 07:27 G 32174506.67 32174506.81 32174506.95 0.0088 0.0012

Saturn 83378-12-10 21:36 G 32174593.29 32174593.40 32174593.51 0.0263 0.0159

Neptune 83378-12-12 08:53 G 32174594.73 32174594.87 32174595.02 0.0088 0.0005

Saturn 83379-03-09 08:10 G 32174681.70 32174681.84 32174681.97 0.0263 0.0056

Neptune 83379-03-10 10:34 G 32174682.80 32174682.94 32174683.08 0.0088 0.0003

Saturn 83379-06-05 18:58 G 32174770.15 32174770.29 32174770.42 0.0263 0.0049

Neptune 83379-06-06 12:00 G 32174770.86 32174771.00 32174771.15 0.0088 0.0011

Saturn 83379-09-02 05:46 G 32174858.63 32174858.74 32174858.85 0.0263 0.0155

Neptune 83379-09-02 13:41 G 32174858.93 32174859.07 32174859.21 0.0088 0.0018

Neptune 83379-11-29 15:08 G 32174947.00 32174947.13 32174947.27 0.0088 0.0026

Saturn 83379-11-29 16:48 G 32174947.19 32174947.20 32174947.21 0.0263 0.0262 *

Earth 83380-01-24 06:58 G 32175002.65 32175002.79 32175002.92 0.2708 0.0598

Moon 83380-01-24 07:41 G 32175002.68 32175002.82 32175002.96 0.2703 0.0581 *

Neptune 83380-02-25 16:34 G 32175035.07 32175035.19 32175035.33 0.0088 0.0034

Neptune 83380-05-23 18:29 G 32175123.14 32175123.27 32175123.39 0.0088 0.0041

Neptune 83380-08-19 19:56 G 32175211.22 32175211.33 32175211.45 0.0088 0.0049

Neptune 83380-11-15 21:22 G 32175299.29 32175299.39 32175299.51 0.0088 0.0057

Neptune 83381-02-11 23:03 G 32175387.37 32175387.46 32175387.57 0.0088 0.0064

Neptune 83381-05-11 00:44 G 32175475.46 32175475.53 32175475.62 0.0088 0.0072

Neptune 83381-08-07 02:10 G 32175563.55 32175563.59 32175563.67 0.0088 0.0080

Neptune 83381-11-03 04:05 G 32175651.66 32175651.67 32175651.69 0.0088 0.0087

Jupiter 83382-01-27 23:17 G 32175737.33 32175737.47 32175737.60 0.0506 0.0024

Earth 83382-07-25 16:20 G 32175916.06 32175916.18 32175916.29 0.2624 0.0136

Moon 83382-07-25 16:34 G 32175916.07 32175916.19 32175916.31 0.2619 0.0134 *

Mars 83383-07-05 19:27 G 32176261.24 32176261.31 32176261.37 0.1623 0.1328

Mars 83385-06-09 22:34 G 32176966.32 32176966.44 32176966.56 0.1637 0.0306

Mars 83386-04-20 14:10 G 32177280.93 32177281.09 32177281.25 0.1896 0.0154

Jupiter 83388-03-28 09:22 G 32177988.78 32177988.89 32177989.00 0.0520 0.0397

Earth 83393-01-26 08:39 G 32179753.75 32179753.86 32179753.98 0.2708 0.1506

Moon 83393-01-26 08:53 G 32179753.76 32179753.87 32179753.98 0.2701 0.1597 *

Saturn 83393-10-11 23:17 G 32180012.35 32180012.47 32180012.61 0.0298 0.0198

Jupiter 83393-11-16 03:22 G 32180047.52 32180047.64 32180047.77 0.0507 0.0181

Saturn 83394-01-08 22:48 G 32180101.27 32180101.45 32180101.62 0.0298 0.0006

Jupiter 83394-02-13 10:05 G 32180136.91 32180136.92 32180136.94 0.0504 0.0497

Saturn 83394-04-07 21:22 G 32180190.26 32180190.39 32180190.52 0.0298 0.0193

Mars 83394-10-31 09:36 G 32180396.78 32180396.90 32180397.02 0.1633 0.0105

Moon 83395-07-28 11:17 G 32180666.86 32180666.97 32180667.07 0.2618 0.1251

Earth 83395-07-28 11:32 G 32180666.88 32180666.98 32180667.09 0.2624 0.1254 *

Mars 83395-09-10 08:24 G 32180710.71 32180710.85 32180710.98 0.1902 0.1081

Mars 83396-10-05 14:10 G 32181102.08 32181102.09 32181102.10 0.1650 0.1634

Jupiter 83400-04-15 12:58 G 32182388.91 32182389.04 32182389.18 0.0522 0.0328

Earth 83402-07-22 06:58 G 32183216.75 32183216.79 32183216.83 0.2625 0.2455

Moon 83402-07-22 07:41 G 32183216.77 32183216.82 32183216.87 0.2626 0.2334 *

Uranus 83403-10-02 14:39 G 32183654.06 32183654.11 32183654.17 0.0144 0.0130

Uranus 83403-12-29 18:29 G 32183742.19 32183742.27 32183742.38 0.0144 0.0108

Mars 83404-03-23 20:39 G 32183827.25 32183827.36 32183827.47 0.1629 0.0510

Uranus 83404-03-26 22:48 G 32183830.34 32183830.45 32183830.57 0.0144 0.0084

Uranus 83404-06-23 02:53 G 32183918.50 32183918.62 32183918.75 0.0144 0.0061

Uranus 83404-09-19 07:12 G 32184006.66 32184006.80 32184006.93 0.0144 0.0038

Uranus 83404-12-16 11:17 G 32184094.83 32184094.97 32184095.11 0.0144 0.0014

Uranus 83405-03-14 15:36 G 32184183.01 32184183.15 32184183.29 0.0144 0.0010

Uranus 83405-06-10 19:41 G 32184271.18 32184271.32 32184271.46 0.0144 0.0033

Jupiter 83405-09-05 07:41 G 32184357.73 32184357.82 32184357.92 0.0507 0.0341

Uranus 83405-09-06 23:46 G 32184359.37 32184359.49 32184359.63 0.0144 0.0057

Jupiter 83405-12-03 14:24 G 32184447.00 32184447.10 32184447.20 0.0505 0.0334

Uranus 83405-12-04 04:05 G 32184447.56 32184447.67 32184447.79 0.0144 0.0081

Mars 83406-02-27 00:44 G 32184532.45 32184532.53 32184532.62 0.1645 0.1196

Uranus 83406-03-02 08:24 G 32184535.76 32184535.85 32184535.95 0.0144 0.0105

Uranus 83406-05-29 12:44 G 32184623.98 32184624.03 32184624.10 0.0144 0.0129

Saturn 83408-04-30 00:15 G 32185325.42 32185325.51 32185325.61 0.0263 0.0187

Saturn 83408-07-27 10:48 G 32185413.82 32185413.95 32185414.08 0.0263 0.0084

Moon 83408-07-31 06:29 G 32185417.74 32185417.77 32185417.80 0.2623 0.2514

Saturn 83408-10-23 21:36 G 32185502.26 32185502.40 32185502.54 0.0263 0.0020

Saturn 83409-01-20 08:24 G 32185590.73 32185590.85 32185590.97 0.0263 0.0125

Saturn 83409-04-18 19:27 G 32185679.24 32185679.31 32185679.37 0.0263 0.0231

Jupiter 83412-02-02 11:17 G 32186698.80 32186698.97 32186699.14 0.0521 0.0088

Earth 83413-01-22 10:34 G 32187053.87 32187053.94 32187054.00 0.2708 0.2370

Moon 83413-01-22 11:46 G 32187053.92 32187053.99 32187054.07 0.2707 0.2268 *

Mars 83413-08-14 07:56 G 32187257.73 32187257.83 32187257.93 0.1626 0.0901

Mars 83415-07-20 11:32 G 32187962.88 32187962.98 32187963.09 0.1641 0.0765

Earth 83415-07-25 01:56 G 32187967.48 32187967.58 32187967.69 0.2625 0.1165

Moon 83415-07-25 02:39 G 32187967.50 32187967.61 32187967.72 0.2621 0.1141 *

Mars 83416-05-30 19:41 G 32188278.22 32188278.32 32188278.43 0.1890 0.1409

Venus 83416-12-30 05:46 G 32188491.65 32188491.74 32188491.82 0.3632 0.2116

Jupiter 83417-06-24 12:00 G 32188667.99 32188668.00 32188668.02 0.0508 0.0502

Jupiter 83417-09-21 18:29 G 32188757.14 32188757.27 32188757.40 0.0505 0.0170

Venus 83422-07-15 21:36 G 32190515.29 32190515.40 32190515.50 0.3632 0.0309

Mars 83423-01-04 19:12 G 32190688.24 32190688.30 32190688.37 0.1623 0.1287

Saturn 83423-03-01 19:56 G 32190744.27 32190744.33 32190744.41 0.0297 0.0272

Saturn 83423-05-29 19:27 G 32190833.14 32190833.31 32190833.48 0.0297 0.0073

Saturn 83423-08-26 18:29 G 32190922.11 32190922.27 32190922.42 0.0297 0.0122

Jupiter 83423-11-21 10:05 G 32191008.75 32191008.92 32191009.08 0.0521 0.0141

Mars 83424-12-09 22:34 G 32191393.32 32191393.44 32191393.56 0.1637 0.0349

Mars 83425-10-20 14:53 G 32191707.96 32191708.12 32191708.28 0.1896 0.0246

Earth 83426-01-25 12:44 G 32191804.89 32191805.03 32191805.17 0.2708 0.0199

Moon 83426-01-25 13:27 G 32191804.92 32191805.06 32191805.20 0.2702 0.0048 *

Venus 83426-07-14 19:27 G 32191975.16 32191975.31 32191975.45 0.3740 0.0251

Venus 83428-01-29 13:27 G 32192538.99 32192539.06 32192539.13 0.3633 0.2740

Moon 83428-07-26 21:22 G 32192718.27 32192718.39 32192718.51 0.2618 0.0238

Earth 83428-07-26 21:22 G 32192718.27 32192718.39 32192718.50 0.2624 0.0192 *

Jupiter 83429-07-10 21:51 G 32193067.27 32193067.41 32193067.54 0.0506 0.0013

Mars 83434-05-02 09:36 G 32194823.78 32194823.90 32194824.02 0.1633 0.0062

Mars 83435-03-12 09:22 G 32195137.75 32195137.89 32195138.03 0.1902 0.0978

Jupiter 83435-09-09 08:10 G 32195318.73 32195318.84 32195318.96 0.0520 0.0379

Saturn 83437-09-17 03:08 G 32196057.56 32196057.63 32196057.71 0.0264 0.0214

Saturn 83437-12-14 13:41 G 32196145.95 32196146.07 32196146.20 0.0263 0.0112

Saturn 83438-03-13 00:29 G 32196234.38 32196234.52 32196234.65 0.0263 0.0011

Saturn 83438-06-09 11:17 G 32196322.84 32196322.97 32196323.10 0.0263 0.0097

Saturn 83438-09-05 22:05 G 32196411.34 32196411.42 32196411.51 0.0263 0.0204

Moon 83439-01-28 14:39 G 32196556.00 32196556.11 32196556.21 0.2702 0.1802

Earth 83439-01-28 14:39 G 32196556.01 32196556.11 32196556.21 0.2708 0.1901 *

Jupiter 83441-04-29 01:41 G 32197377.45 32197377.57 32197377.70 0.0506 0.0182

Jupiter 83441-07-27 08:24 G 32197466.83 32197466.85 32197466.87 0.0504 0.0494

Moon 83441-07-29 16:20 G 32197469.08 32197469.18 32197469.28 0.2618 0.1409

Earth 83441-07-29 16:48 G 32197469.10 32197469.20 32197469.29 0.2624 0.1528 *

Mars 83443-09-22 20:39 G 32198254.25 32198254.36 32198254.48 0.1630 0.0465

Mars 83445-08-28 00:58 G 32198959.46 32198959.54 32198959.61 0.1645 0.1240

Uranus 83446-01-17 07:56 G 32199101.76 32199101.83 32199101.92 0.0134 0.0119

Uranus 83446-04-15 13:56 G 32199189.97 32199190.08 32199190.22 0.0134 0.0095

Uranus 83446-07-12 20:24 G 32199278.20 32199278.35 32199278.50 0.0134 0.0070

Uranus 83446-10-09 02:24 G 32199366.44 32199366.60 32199366.77 0.0134 0.0046

Uranus 83447-01-05 08:39 G 32199454.68 32199454.86 32199455.03 0.0134 0.0022

Uranus 83447-04-03 14:24 G 32199542.93 32199543.10 32199543.28 0.0134 0.0004

Uranus 83447-06-30 20:24 G 32199631.18 32199631.35 32199631.53 0.0134 0.0025

Jupiter 83447-09-26 11:17 G 32199718.85 32199718.97 32199719.10 0.0522 0.0338

Uranus 83447-09-27 02:10 G 32199719.43 32199719.59 32199719.76 0.0134 0.0049

Uranus 83447-12-24 08:10 G 32199807.70 32199807.84 32199807.99 0.0134 0.0072

Uranus 83448-03-21 13:41 G 32199895.96 32199896.07 32199896.21 0.0134 0.0096

Uranus 83448-06-17 19:27 G 32199984.25 32199984.31 32199984.40 0.0134 0.0119

Earth 83448-07-22 12:00 G 32200018.93 32200019.00 32200019.06 0.2625 0.2201

Moon 83448-07-22 12:44 G 32200018.96 32200019.03 32200019.10 0.2624 0.2107 *

Saturn 83452-10-15 20:10 G 32201565.18 32201565.34 32201565.51 0.0298 0.0114

Saturn 83453-01-12 19:12 G 32201654.13 32201654.30 32201654.47 0.0298 0.0082

Mars 83453-02-12 07:56 G 32201684.73 32201684.83 32201684.93 0.1626 0.0859

Jupiter 83453-02-15 05:46 G 32201687.65 32201687.74 32201687.84 0.0508 0.0346

Saturn 83453-04-11 17:32 G 32201743.17 32201743.23 32201743.30 0.0298 0.0273

Jupiter 83453-05-15 12:29 G 32201776.92 32201777.02 32201777.12 0.0505 0.0329

Mars 83455-01-18 11:32 G 32202389.88 32202389.98 32202390.09 0.1641 0.0811

Mars 83455-11-29 20:24 G 32202705.25 32202705.35 32202705.45 0.1890 0.1491

Earth 83459-01-23 16:34 G 32203856.09 32203856.19 32203856.28 0.2708 0.1959

Moon 83459-01-23 17:46 G 32203856.13 32203856.24 32203856.34 0.2706 0.1778 *

Neptune 83459-04-18 13:12 G 32203941.00 32203941.05 32203941.15 0.0090 0.0082

Jupiter 83459-07-15 09:22 G 32204028.72 32204028.89 32204029.06 0.0521 0.0093

Neptune 83459-07-15 16:34 G 32204029.09 32204029.19 32204029.31 0.0090 0.0071

Neptune 83459-10-11 19:41 G 32204117.20 32204117.32 32204117.46 0.0090 0.0061

Neptune 83460-01-07 22:34 G 32204205.31 32204205.44 32204205.60 0.0090 0.0051

Neptune 83460-04-05 01:41 G 32204293.42 32204293.57 32204293.74 0.0090 0.0041

Neptune 83460-07-02 04:34 G 32204381.54 32204381.69 32204381.87 0.0090 0.0031

Neptune 83460-09-28 07:41 G 32204469.66 32204469.82 32204470.00 0.0090 0.0021

Neptune 83460-12-25 10:48 G 32204557.78 32204557.95 32204558.13 0.0090 0.0010

Neptune 83461-03-23 13:41 G 32204645.90 32204646.07 32204646.25 0.0090 0.0003

Neptune 83461-06-19 16:48 G 32204734.02 32204734.20 32204734.37 0.0090 0.0010

Earth 83461-07-25 06:58 G 32204769.68 32204769.79 32204769.90 0.2625 0.0905

Moon 83461-07-25 07:41 G 32204769.70 32204769.82 32204769.93 0.2621 0.0775 *

Neptune 83461-09-15 19:41 G 32204822.15 32204822.32 32204822.49 0.0090 0.0020

Neptune 83461-12-12 22:20 G 32204910.28 32204910.43 32204910.61 0.0090 0.0030

Neptune 83462-03-11 01:12 G 32204998.41 32204998.55 32204998.72 0.0090 0.0040

Neptune 83462-06-07 04:05 G 32205086.54 32205086.67 32205086.83 0.0090 0.0050

Mars 83462-07-05 19:12 G 32205115.23 32205115.30 32205115.37 0.1623 0.1247

Neptune 83462-09-03 07:12 G 32205174.67 32205174.80 32205174.93 0.0090 0.0059

Neptune 83462-11-30 09:51 G 32205262.81 32205262.91 32205263.03 0.0090 0.0069

Neptune 83463-02-26 12:29 G 32205350.96 32205351.02 32205351.12 0.0090 0.0079

Neptune 83463-05-25 15:36 G 32205439.13 32205439.15 32205439.19 0.0090 0.0088

Mars 83464-06-09 22:34 G 32205820.32 32205820.44 32205820.55 0.1637 0.0390

Jupiter 83464-12-04 10:05 G 32205997.92 32205997.92 32205997.93 0.0508 0.0507

Jupiter 83465-03-03 16:34 G 32206087.06 32206087.19 32206087.32 0.0505 0.0165

Mars 83465-04-20 15:22 G 32206134.98 32206135.14 32206135.30 0.1896 0.0327

Saturn 83467-02-04 06:15 G 32206789.71 32206789.76 32206789.82 0.0263 0.0239

Saturn 83467-05-03 16:48 G 32206878.08 32206878.20 32206878.32 0.0263 0.0138

Saturn 83467-07-31 03:22 G 32206966.51 32206966.64 32206966.78 0.0263 0.0035

Saturn 83467-10-27 14:10 G 32207054.96 32207055.09 32207055.23 0.0263 0.0070

Venus 83468-01-21 11:17 G 32207140.96 32207140.97 32207140.99 0.3631 0.3578

Saturn 83468-01-24 01:12 G 32207143.44 32207143.55 32207143.65 0.0263 0.0177

Jupiter 83471-05-03 06:58 G 32208338.63 32208338.79 32208338.96 0.0521 0.0154

Earth 83472-01-26 18:44 G 32208607.14 32208607.28 32208607.42 0.2708 0.0209

Moon 83472-01-26 19:12 G 32208607.16 32208607.30 32208607.45 0.2702 0.0221 *

Venus 83473-08-06 03:08 G 32209164.53 32209164.63 32209164.73 0.3632 0.1221

Mars 83473-10-31 09:36 G 32209250.78 32209250.90 32209251.01 0.1633 0.0061

Moon 83474-07-28 02:10 G 32209520.47 32209520.59 32209520.71 0.2618 0.0369

Earth 83474-07-28 02:24 G 32209520.48 32209520.60 32209520.71 0.2624 0.0438 *

Mars 83474-09-10 10:20 G 32209564.78 32209564.93 32209565.07 0.1902 0.0875

Jupiter 83476-12-20 20:39 G 32210397.23 32210397.36 32210397.50 0.0506 0.0006

Venus 83479-02-19 18:58 G 32211188.19 32211188.29 32211188.39 0.3632 0.1204

Saturn 83482-03-04 17:46 G 32212297.10 32212297.24 32212297.38 0.0297 0.0180

Saturn 83482-06-01 17:03 G 32212386.03 32212386.21 32212386.38 0.0297 0.0018

Saturn 83482-08-29 15:36 G 32212475.03 32212475.15 32212475.27 0.0297 0.0209

Venus 83483-02-18 20:24 G 32212648.25 32212648.35 32212648.46 0.3740 0.2546

Jupiter 83483-02-19 05:32 G 32212648.62 32212648.73 32212648.85 0.0520 0.0385

Mars 83483-03-23 20:39 G 32212681.25 32212681.36 32212681.48 0.1630 0.0422

Moon 83485-01-28 20:10 G 32213358.27 32213358.34 32213358.41 0.2702 0.2314

Earth 83485-01-28 20:24 G 32213358.28 32213358.35 32213358.43 0.2708 0.2283 *

Mars 83485-02-26 00:44 G 32213386.46 32213386.53 32213386.61 0.1645 0.1279

Moon 83487-07-30 21:08 G 32214271.29 32214271.38 32214271.47 0.2620 0.1786

Earth 83487-07-30 21:51 G 32214271.32 32214271.41 32214271.49 0.2624 0.1794 *

Uranus 83487-10-22 21:51 G 32214355.35 32214355.41 32214355.49 0.0144 0.0123

Uranus 83488-01-19 01:56 G 32214443.49 32214443.58 32214443.69 0.0144 0.0101

Uranus 83488-04-16 06:15 G 32214531.64 32214531.76 32214531.88 0.0144 0.0077

Uranus 83488-07-13 10:20 G 32214619.80 32214619.93 32214620.06 0.0144 0.0054

Jupiter 83488-10-09 00:00 G 32214707.38 32214707.50 32214707.63 0.0506 0.0180

Uranus 83488-10-09 14:24 G 32214707.97 32214708.10 32214708.24 0.0144 0.0031

Uranus 83489-01-05 18:44 G 32214796.14 32214796.28 32214796.42 0.0144 0.0008

Jupiter 83489-01-06 06:44 G 32214796.77 32214796.78 32214796.80 0.0504 0.0497

Uranus 83489-04-03 22:48 G 32214884.31 32214884.45 32214884.59 0.0144 0.0016

Uranus 83489-07-01 02:53 G 32214972.49 32214972.62 32214972.76 0.0144 0.0040

Uranus 83489-09-27 07:12 G 32215060.68 32215060.80 32215060.93 0.0144 0.0064

Uranus 83489-12-24 11:32 G 32215148.87 32215148.98 32215149.09 0.0144 0.0087

Uranus 83490-03-22 15:51 G 32215237.07 32215237.16 32215237.25 0.0144 0.0111

Uranus 83490-06-18 20:10 G 32215325.30 32215325.34 32215325.39 0.0144 0.0136

Pluto 83492-07-17 12:29 G 32216084.99 32216085.02 32216085.10 0.0062 0.0059

Mars 83492-08-13 07:56 G 32216111.73 32216111.83 32216111.93 0.1626 0.0816

Pluto 83492-10-13 13:56 G 32216172.98 32216173.08 32216173.19 0.0062 0.0048

Pluto 83493-01-09 14:39 G 32216260.99 32216261.11 32216261.26 0.0062 0.0038

Pluto 83493-04-07 15:51 G 32216349.01 32216349.16 32216349.31 0.0062 0.0028

Pluto 83493-07-04 16:34 G 32216437.04 32216437.19 32216437.36 0.0062 0.0018

Pluto 83493-09-30 17:46 G 32216525.07 32216525.24 32216525.41 0.0062 0.0007

Pluto 83493-12-27 18:44 G 32216613.11 32216613.28 32216613.45 0.0062 0.0004

Pluto 83494-03-25 19:27 G 32216701.15 32216701.31 32216701.48 0.0062 0.0015

Pluto 83494-06-21 20:39 G 32216789.20 32216789.36 32216789.51 0.0062 0.0025

Mars 83494-07-19 11:32 G 32216816.88 32216816.98 32216817.09 0.1641 0.0856

Earth 83494-07-23 16:48 G 32216821.13 32216821.20 32216821.28 0.2625 0.1949

Moon 83494-07-23 17:46 G 32216821.16 32216821.24 32216821.32 0.2623 0.1861 *

Pluto 83494-09-17 21:22 G 32216877.26 32216877.39 32216877.54 0.0063 0.0036

Pluto 83494-12-14 22:05 G 32216965.33 32216965.42 32216965.55 0.0063 0.0047

Jupiter 83495-03-08 09:51 G 32217048.79 32217048.91 32217049.04 0.0522 0.0350

Pluto 83495-03-12 23:17 G 32217053.41 32217053.47 32217053.55 0.0063 0.0057

Mars 83495-05-30 21:08 G 32217132.30 32217132.38 32217132.47 0.1890 0.1582

Saturn 83496-09-19 19:41 G 32217610.21 32217610.32 32217610.43 0.0264 0.0165

Saturn 83496-12-17 06:15 G 32217698.63 32217698.76 32217698.90 0.0264 0.0062

Saturn 83497-03-15 17:03 G 32217787.07 32217787.21 32217787.35 0.0264 0.0043

Saturn 83497-06-12 03:51 G 32217875.55 32217875.66 32217875.78 0.0264 0.0149

Saturn 83497-09-08 14:53 G 32217964.10 32217964.12 32217964.16 0.0264 0.0257

Jupiter 83500-07-29 04:05 G 32219017.57 32219017.67 32219017.76 0.0507 0.0349

Jupiter 83500-10-26 10:34 G 32219106.84 32219106.94 32219107.04 0.0504 0.0324

Mars 83502-01-04 19:12 G 32219542.22 32219542.30 32219542.38 0.1623 0.1201

Mars 83503-12-10 22:34 G 32220247.32 32220247.44 32220247.55 0.1637 0.0434

Mars 83504-10-20 16:20 G 32220562.02 32220562.18 32220562.34 0.1896 0.0425

Earth 83505-01-24 22:20 G 32220658.32 32220658.43 32220658.55 0.2708 0.1554

Moon 83505-01-24 23:32 G 32220658.36 32220658.48 32220658.60 0.2704 0.1407 *

Jupiter 83506-12-26 07:12 G 32221358.64 32221358.80 32221358.97 0.0521 0.0097

Earth 83507-07-27 12:00 G 32221571.89 32221572.00 32221572.12 0.2625 0.0643

Moon 83507-07-27 12:29 G 32221571.91 32221572.02 32221572.14 0.2620 0.0612 *

Mars 83511-05-28 06:44 G 32222972.75 32222972.78 32222972.80 0.1620 0.1581

Saturn 83511-07-23 18:58 G 32223029.17 32223029.29 32223029.41 0.0298 0.0218

Saturn 83511-10-20 18:15 G 32223118.08 32223118.26 32223118.43 0.0298 0.0020

Saturn 83512-01-17 16:48 G 32223207.07 32223207.20 32223207.35 0.0298 0.0174

Jupiter 83512-08-14 14:24 G 32223416.98 32223417.10 32223417.23 0.0505 0.0158

Mars 83513-05-02 09:36 G 32223677.78 32223677.90 32223678.02 0.1633 0.0028

Mars 83514-03-12 10:48 G 32223991.80 32223991.95 32223992.10 0.1902 0.0792

Earth 83518-01-28 00:44 G 32225409.39 32225409.53 32225409.66 0.2708 0.0605

Moon 83518-01-28 01:12 G 32225409.41 32225409.55 32225409.68 0.2702 0.0716 *

Jupiter 83518-10-14 05:03 G 32225668.54 32225668.71 32225668.87 0.0520 0.0152

Moon 83520-07-29 07:12 G 32226322.69 32226322.80 32226322.92 0.2618 0.0742

Earth 83520-07-29 07:27 G 32226322.69 32226322.81 32226322.92 0.2624 0.0701 *

Mars 83522-09-22 20:39 G 32227108.24 32227108.36 32227108.47 0.1629 0.0382

Jupiter 83524-06-02 18:44 G 32227727.14 32227727.28 32227727.41 0.0506 0.0010

Mars 83524-08-28 00:58 G 32227813.47 32227813.54 32227813.61 0.1645 0.1325

Venus 83524-08-28 08:53 G 32227813.80 32227813.87 32227813.94 0.3631 0.2696

Saturn 83526-02-07 23:03 G 32228342.37 32228342.46 32228342.55 0.0263 0.0188

Saturn 83526-05-07 09:36 G 32228430.77 32228430.90 32228431.03 0.0263 0.0085

Saturn 83526-08-03 20:24 G 32228519.21 32228519.35 32228519.48 0.0263 0.0020

Saturn 83526-10-31 07:12 G 32228607.68 32228607.80 32228607.92 0.0263 0.0124

Saturn 83527-01-27 18:00 G 32228696.19 32228696.25 32228696.32 0.0263 0.0232

Uranus 83529-11-11 09:51 G 32229714.90 32229714.91 32229714.92 0.0134 0.0133

Uranus 83530-02-07 15:51 G 32229803.06 32229803.16 32229803.27 0.0134 0.0109

Venus 83530-03-14 00:44 G 32229837.42 32229837.53 32229837.63 0.3632 0.0339

Uranus 83530-05-06 21:51 G 32229891.29 32229891.41 32229891.56 0.0134 0.0085

Jupiter 83530-08-02 02:24 G 32229978.50 32229978.60 32229978.71 0.0520 0.0402

Uranus 83530-08-03 04:20 G 32229979.52 32229979.68 32229979.84 0.0134 0.0060

Uranus 83530-10-30 10:20 G 32230067.76 32230067.93 32230068.10 0.0134 0.0036

Uranus 83531-01-26 16:20 G 32230156.01 32230156.18 32230156.36 0.0134 0.0012

Moon 83531-01-31 01:41 G 32230160.53 32230160.57 32230160.62 0.2702 0.2521

Earth 83531-01-31 02:24 G 32230160.58 32230160.60 32230160.62 0.2708 0.2674 *

Uranus 83531-04-24 22:20 G 32230244.26 32230244.43 32230244.61 0.0134 0.0012

Uranus 83531-07-22 04:20 G 32230332.51 32230332.68 32230332.85 0.0134 0.0035

Uranus 83531-10-18 10:05 G 32230420.77 32230420.92 32230421.08 0.0134 0.0059

Uranus 83532-01-14 15:51 G 32230509.03 32230509.16 32230509.31 0.0134 0.0082

Mars 83532-02-13 07:56 G 32230538.72 32230538.83 32230538.93 0.1626 0.0776

Uranus 83532-04-11 21:51 G 32230597.31 32230597.41 32230597.52 0.0134 0.0105

Uranus 83532-07-09 03:36 G 32230685.61 32230685.65 32230685.70 0.0134 0.0128

Moon 83533-08-01 02:10 G 32231073.51 32231073.59 32231073.67 0.2621 0.1914

Earth 83533-08-01 02:53 G 32231073.55 32231073.62 32231073.69 0.2624 0.2070 *

Mars 83534-01-18 11:32 G 32231243.88 32231243.98 32231244.08 0.1641 0.0891

Venus 83534-03-12 15:51 G 32231297.04 32231297.16 32231297.28 0.3740 0.2073

Mars 83534-11-29 21:51 G 32231559.34 32231559.41 32231559.49 0.1890 0.1668

Venus 83535-09-27 16:34 G 32231861.10 32231861.19 32231861.28 0.3632 0.2109

Jupiter 83536-03-21 22:48 G 32232037.33 32232037.45 32232037.58 0.0507 0.0171

Earth 83540-07-24 21:51 G 32233623.32 32233623.41 32233623.50 0.2625 0.1692

Moon 83540-07-24 22:48 G 32233623.35 32233623.45 32233623.54 0.2623 0.1565 *

Saturn 83540-12-09 16:48 G 32233761.15 32233761.20 32233761.26 0.0297 0.0280

Neptune 83541-01-14 15:08 G 32233797.10 32233797.13 32233797.18 0.0088 0.0083

Saturn 83541-03-08 16:20 G 32233850.01 32233850.18 32233850.35 0.0297 0.0081

Neptune 83541-04-12 16:34 G 32233885.13 32233885.19 32233885.27 0.0088 0.0076

Saturn 83541-06-05 15:22 G 32233938.98 32233939.14 32233939.30 0.0297 0.0113

Mars 83541-07-05 19:12 G 32233969.22 32233969.30 32233969.38 0.1623 0.1159

Neptune 83541-07-09 18:15 G 32233973.18 32233973.26 32233973.35 0.0088 0.0068

Neptune 83541-10-05 19:41 G 32234061.23 32234061.32 32234061.43 0.0088 0.0061

Neptune 83542-01-01 21:08 G 32234149.28 32234149.38 32234149.50 0.0088 0.0054

Neptune 83542-03-30 22:34 G 32234237.33 32234237.44 32234237.57 0.0088 0.0047

Neptune 83542-06-27 00:15 G 32234325.39 32234325.51 32234325.64 0.0088 0.0039

Jupiter 83542-08-19 07:12 G 32234378.67 32234378.80 32234378.93 0.0522 0.0338

Neptune 83542-09-23 01:41 G 32234413.45 32234413.57 32234413.71 0.0088 0.0032

Neptune 83542-12-20 03:22 G 32234501.51 32234501.64 32234501.78 0.0088 0.0024

Neptune 83543-03-18 05:03 G 32234589.57 32234589.71 32234589.85 0.0088 0.0017

Mars 83543-06-10 22:34 G 32234674.33 32234674.44 32234674.55 0.1637 0.0478

Neptune 83543-06-14 06:29 G 32234677.63 32234677.77 32234677.91 0.0088 0.0009

Neptune 83543-09-10 08:10 G 32234765.69 32234765.84 32234765.98 0.0088 0.0003

Neptune 83543-12-07 09:36 G 32234853.76 32234853.90 32234854.04 0.0088 0.0006

Neptune 83544-03-04 11:03 G 32234941.82 32234941.96 32234942.11 0.0088 0.0014

Mars 83544-04-20 17:17 G 32234989.06 32234989.22 32234989.37 0.1896 0.0522

Neptune 83544-05-31 12:44 G 32235029.89 32235030.03 32235030.17 0.0088 0.0021

Neptune 83544-08-27 14:10 G 32235117.96 32235118.09 32235118.23 0.0088 0.0029

Neptune 83544-11-23 15:51 G 32235206.03 32235206.16 32235206.29 0.0088 0.0036

Neptune 83545-02-19 17:17 G 32235294.10 32235294.22 32235294.35 0.0088 0.0044

Neptune 83545-05-18 18:44 G 32235382.18 32235382.28 32235382.41 0.0088 0.0052

Neptune 83545-08-14 20:39 G 32235470.26 32235470.36 32235470.47 0.0088 0.0059

Neptune 83545-11-10 22:05 G 32235558.34 32235558.42 32235558.52 0.0088 0.0067

Neptune 83546-02-06 23:32 G 32235646.42 32235646.48 32235646.57 0.0088 0.0075

Neptune 83546-05-06 01:27 G 32235734.52 32235734.56 32235734.61 0.0088 0.0082

Jupiter 83548-01-09 02:24 G 32236347.51 32236347.60 32236347.70 0.0507 0.0347

Jupiter 83548-04-07 08:53 G 32236436.77 32236436.87 32236436.97 0.0504 0.0325

Mars 83550-11-26 06:29 G 32237399.74 32237399.77 32237399.81 0.1620 0.1538

Earth 83551-01-26 04:20 G 32237460.56 32237460.68 32237460.81 0.2708 0.1144

Moon 83551-01-26 05:32 G 32237460.60 32237460.73 32237460.86 0.2703 0.1061 *

Mars 83552-10-31 09:36 G 32238104.78 32238104.90 32238105.02 0.1633 0.0078

Earth 83553-07-27 17:03 G 32238374.10 32238374.21 32238374.33 0.2625 0.0382

Moon 83553-07-27 17:32 G 32238374.11 32238374.23 32238374.35 0.2619 0.0344 *

Mars 83553-09-10 11:46 G 32238418.83 32238418.99 32238419.14 0.1902 0.0698

Jupiter 83554-06-07 05:32 G 32238688.56 32238688.73 32238688.90 0.0522 0.0102

Saturn 83555-06-28 01:41 G 32239074.50 32239074.57 32239074.65 0.0264 0.0217

Saturn 83555-09-24 12:29 G 32239162.89 32239163.02 32239163.14 0.0264 0.0114

Saturn 83555-12-21 23:03 G 32239251.32 32239251.46 32239251.60 0.0264 0.0010

Saturn 83556-03-19 09:51 G 32239339.78 32239339.91 32239340.04 0.0264 0.0096

Saturn 83556-06-15 20:53 G 32239428.28 32239428.37 32239428.46 0.0264 0.0203

Jupiter 83560-01-25 12:44 G 32240746.90 32240747.03 32240747.16 0.0505 0.0153

Mars 83562-03-23 20:39 G 32241535.24 32241535.36 32241535.47 0.1629 0.0338

Earth 83564-01-29 06:29 G 32242211.64 32242211.77 32242211.90 0.2708 0.0999

Moon 83564-01-29 06:58 G 32242211.65 32242211.79 32242211.92 0.2702 0.1008 *

Mars 83564-02-27 00:44 G 32242240.47 32242240.53 32242240.60 0.1645 0.1366

Jupiter 83566-03-26 02:39 G 32242998.45 32242998.61 32242998.78 0.0520 0.0153

Moon 83566-07-30 12:15 G 32243124.90 32243125.01 32243125.12 0.2618 0.0904

Earth 83566-07-30 12:29 G 32243124.91 32243125.02 32243125.13 0.2624 0.0969 *

Saturn 83570-07-26 17:46 G 32244582.08 32244582.24 32244582.41 0.0298 0.0117

Saturn 83570-10-23 16:48 G 32244671.04 32244671.20 32244671.37 0.0298 0.0079

Saturn 83571-01-20 15:08 G 32244760.07 32244760.13 32244760.21 0.0298 0.0271

Mars 83571-08-14 07:56 G 32244965.72 32244965.83 32244965.93 0.1626 0.0732

Uranus 83571-08-17 01:56 G 32244968.54 32244968.58 32244968.63 0.0144 0.0136

Uranus 83571-11-13 06:00 G 32245056.67 32245056.75 32245056.83 0.0144 0.0113

Jupiter 83571-11-13 16:34 G 32245057.06 32245057.19 32245057.32 0.0506 0.0016

Uranus 83572-02-09 10:05 G 32245144.81 32245144.92 32245145.03 0.0144 0.0091

Uranus 83572-05-07 14:10 G 32245232.97 32245233.09 32245233.21 0.0144 0.0068

Uranus 83572-08-03 18:15 G 32245321.13 32245321.26 32245321.39 0.0144 0.0045

Uranus 83572-10-30 22:20 G 32245409.29 32245409.43 32245409.57 0.0144 0.0021

Uranus 83573-01-27 02:39 G 32245497.47 32245497.61 32245497.75 0.0144 0.0004

Uranus 83573-04-25 06:44 G 32245585.64 32245585.78 32245585.92 0.0144 0.0026

Mars 83573-07-19 11:32 G 32245670.89 32245670.98 32245671.08 0.1641 0.0940

Uranus 83573-07-22 11:03 G 32245673.82 32245673.96 32245674.09 0.0144 0.0050

Moon 83573-07-23 08:39 G 32245674.84 32245674.86 32245674.89 0.2626 0.2560

Uranus 83573-10-18 15:08 G 32245762.01 32245762.13 32245762.26 0.0144 0.0073

Uranus 83574-01-14 19:27 G 32245850.21 32245850.31 32245850.42 0.0144 0.0097

Uranus 83574-04-12 23:46 G 32245938.42 32245938.49 32245938.57 0.0144 0.0121

Mars 83574-05-30 22:34 G 32245986.39 32245986.44 32245986.50 0.1890 0.1755

Jupiter 83578-01-12 00:15 G 32247308.40 32247308.51 32247308.62 0.0519 0.0403

Moon 83579-08-02 06:58 G 32247875.74 32247875.79 32247875.85 0.2622 0.2306

Earth 83579-08-02 07:56 G 32247875.78 32247875.83 32247875.88 0.2624 0.2344 *

Mars 83581-01-03 19:12 G 32248396.21 32248396.30 32248396.38 0.1622 0.1122

Venus 83581-04-04 06:15 G 32248486.67 32248486.76 32248486.85 0.3632 0.1822

Mars 83582-12-09 22:34 G 32249101.32 32249101.44 32249101.55 0.1637 0.0518

Jupiter 83583-09-01 20:39 G 32249367.24 32249367.36 32249367.49 0.0507 0.0180

Mars 83583-10-20 17:46 G 32249416.08 32249416.24 32249416.39 0.1896 0.0594

Jupiter 83583-11-30 03:22 G 32249456.62 32249456.64 32249456.66 0.0504 0.0497

Pluto 83584-02-28 06:44 G 32249546.71 32249546.78 32249546.88 0.0082 0.0066

Pluto 83584-05-26 08:24 G 32249634.73 32249634.85 32249634.98 0.0082 0.0045

Pluto 83584-08-22 09:51 G 32249722.78 32249722.91 32249723.06 0.0081 0.0025

Saturn 83584-11-14 05:17 G 32249806.67 32249806.72 32249806.78 0.0263 0.0238

Pluto 83584-11-18 11:32 G 32249810.83 32249810.98 32249811.13 0.0081 0.0004

Saturn 83585-02-10 15:51 G 32249895.05 32249895.16 32249895.28 0.0263 0.0136

Pluto 83585-02-14 12:44 G 32249898.89 32249899.03 32249899.18 0.0081 0.0017

Saturn 83585-05-10 02:39 G 32249983.47 32249983.61 32249983.74 0.0263 0.0032

Pluto 83585-05-13 14:10 G 32249986.97 32249987.09 32249987.23 0.0081 0.0037

Saturn 83585-08-06 13:27 G 32250071.92 32250072.06 32250072.19 0.0263 0.0074

Pluto 83585-08-09 15:51 G 32250075.06 32250075.16 32250075.26 0.0081 0.0057

Saturn 83585-11-03 00:15 G 32250160.41 32250160.51 32250160.61 0.0263 0.0180

Pluto 83585-11-05 17:03 G 32250163.18 32250163.21 32250163.26 0.0081 0.0078

Earth 83586-07-26 02:53 G 32250425.52 32250425.62 32250425.72 0.2625 0.1435

Moon 83586-07-26 03:36 G 32250425.55 32250425.65 32250425.76 0.2623 0.1387 *

Venus 83586-10-18 22:05 G 32250510.32 32250510.42 32250510.53 0.3632 0.0581

Jupiter 83590-01-29 03:51 G 32251708.53 32251708.66 32251708.80 0.0522 0.0319

Mars 83590-05-27 06:29 G 32251826.73 32251826.77 32251826.82 0.1620 0.1495

Venus 83590-10-17 16:48 G 32251970.06 32251970.20 32251970.35 0.3740 0.0260

Mars 83592-05-01 09:22 G 32252531.78 32252531.89 32252532.01 0.1633 0.0115

Venus 83592-05-03 13:56 G 32252534.03 32252534.08 32252534.14 0.3633 0.3010

Mars 83593-03-11 12:44 G 32252845.88 32252846.03 32252846.19 0.1902 0.0587

Jupiter 83595-06-21 00:58 G 32253677.44 32253677.54 32253677.63 0.0508 0.0344

Jupiter 83595-09-18 07:27 G 32253766.71 32253766.81 32253766.91 0.0505 0.0330

Earth 83597-01-26 10:20 G 32254262.80 32254262.93 32254263.07 0.2708 0.0740

Moon 83597-01-26 11:17 G 32254262.84 32254262.97 32254263.11 0.2703 0.0564 *

Earth 83599-07-28 22:05 G 32255176.30 32255176.42 32255176.54 0.2625 0.0121

Moon 83599-07-28 22:20 G 32255176.31 32255176.43 32255176.55 0.2618 0.0076 *

Saturn 83599-12-13 16:20 G 32255314.05 32255314.18 32255314.33 0.0297 0.0174

Saturn 83600-03-11 15:36 G 32255402.98 32255403.15 32255403.33 0.0297 0.0024

Saturn 83600-06-08 14:10 G 32255491.98 32255492.09 32255492.21 0.0297 0.0215

Mars 83601-09-21 20:39 G 32255962.24 32255962.36 32255962.47 0.1630 0.0295

Jupiter 83601-11-17 02:24 G 32256018.43 32256018.60 32256018.77 0.0521 0.0086

Mars 83602-08-01 06:15 G 32256275.73 32256275.76 32256275.80 0.1907 0.1857

Mars 83603-08-28 00:44 G 32256667.47 32256667.53 32256667.59 0.1645 0.1408

Jupiter 83607-07-07 11:03 G 32258076.83 32258076.96 32258077.09 0.0505 0.0154

Moon 83610-01-29 12:29 G 32259013.90 32259014.02 32259014.14 0.2702 0.1370

Earth 83610-01-29 12:29 G 32259013.90 32259014.02 32259014.14 0.2708 0.1395 *

Mars 83611-02-12 07:56 G 32259392.72 32259392.83 32259392.93 0.1626 0.0692

Moon 83612-07-30 17:03 G 32259927.11 32259927.21 32259927.32 0.2619 0.1206

Earth 83612-07-30 17:32 G 32259927.12 32259927.23 32259927.33 0.2624 0.1240 *

Mars 83613-01-17 11:32 G 32260097.89 32260097.98 32260098.08 0.1641 0.0981

Jupiter 83613-09-05 00:29 G 32260328.36 32260328.52 32260328.69 0.0521 0.0153

Mars 83613-11-28 23:17 G 32260413.44 32260413.47 32260413.51 0.1890 0.1836

Uranus 83613-12-01 17:46 G 32260416.17 32260416.24 32260416.30 0.0134 0.0123

Uranus 83614-02-27 23:46 G 32260504.38 32260504.49 32260504.62 0.0134 0.0099

Uranus 83614-05-27 05:46 G 32260592.60 32260592.74 32260592.90 0.0134 0.0075

Saturn 83614-06-30 18:44 G 32260627.17 32260627.28 32260627.38 0.0264 0.0165

Uranus 83614-08-23 12:00 G 32260680.84 32260681.00 32260681.17 0.0134 0.0051

Saturn 83614-09-27 05:17 G 32260715.59 32260715.72 32260715.85 0.0264 0.0061

Uranus 83614-11-19 18:15 G 32260769.08 32260769.26 32260769.43 0.0134 0.0026

Saturn 83614-12-24 16:05 G 32260804.03 32260804.17 32260804.30 0.0264 0.0044

Uranus 83615-02-16 00:15 G 32260857.33 32260857.51 32260857.69 0.0134 0.0002

Saturn 83615-03-23 02:53 G 32260892.51 32260892.62 32260892.74 0.0264 0.0150

Uranus 83615-05-15 06:15 G 32260945.58 32260945.76 32260945.93 0.0134 0.0021

Saturn 83615-06-19 13:56 G 32260981.06 32260981.08 32260981.11 0.0264 0.0258

Uranus 83615-08-11 12:00 G 32261033.84 32261034.00 32261034.17 0.0134 0.0045

Uranus 83615-11-07 18:00 G 32261122.10 32261122.25 32261122.40 0.0134 0.0068

Uranus 83616-02-03 23:32 G 32261210.37 32261210.48 32261210.62 0.0134 0.0092

Uranus 83616-05-02 05:17 G 32261298.65 32261298.72 32261298.83 0.0134 0.0116

Jupiter 83619-04-25 14:53 G 32262386.98 32262387.12 32262387.25 0.0506 0.0025

Earth 83619-07-24 12:58 G 32262477.00 32262477.04 32262477.08 0.2625 0.2468

Moon 83619-07-24 13:41 G 32262477.03 32262477.07 32262477.11 0.2626 0.2444 *

Mars 83620-07-04 19:12 G 32262823.21 32262823.30 32262823.38 0.1623 0.1075

Mars 83622-06-09 22:34 G 32263528.33 32263528.44 32263528.55 0.1637 0.0562

Mars 83623-04-20 18:44 G 32263843.13 32263843.28 32263843.43 0.1896 0.0699

Neptune 83623-10-18 08:10 G 32264023.83 32264023.84 32264023.87 0.0090 0.0089

Neptune 83624-01-14 11:03 G 32264111.89 32264111.96 32264112.06 0.0090 0.0079

Neptune 83624-04-11 14:10 G 32264199.99 32264200.09 32264200.22 0.0090 0.0069

Neptune 83624-07-08 17:03 G 32264288.10 32264288.21 32264288.37 0.0090 0.0059

Neptune 83624-10-04 20:24 G 32264376.21 32264376.35 32264376.51 0.0090 0.0048

Neptune 83624-12-31 23:32 G 32264464.32 32264464.48 32264464.64 0.0090 0.0038

Neptune 83625-03-30 02:24 G 32264552.44 32264552.60 32264552.78 0.0090 0.0028

Jupiter 83625-06-23 21:36 G 32264638.30 32264638.40 32264638.51 0.0519 0.0407

Neptune 83625-06-26 05:32 G 32264640.56 32264640.73 32264640.91 0.0090 0.0018

Moon 83625-08-02 12:15 G 32264677.97 32264678.01 32264678.05 0.2621 0.2465

Earth 83625-08-02 12:58 G 32264678.04 32264678.04 32264678.04 0.2624 0.2624 *

Neptune 83625-09-22 08:39 G 32264728.68 32264728.86 32264729.04 0.0090 0.0008

Neptune 83625-12-19 11:32 G 32264816.80 32264816.98 32264817.16 0.0090 0.0003

Neptune 83626-03-17 14:24 G 32264904.93 32264905.10 32264905.28 0.0090 0.0013

Neptune 83626-06-13 17:17 G 32264993.06 32264993.22 32264993.40 0.0090 0.0023

Neptune 83626-09-09 20:10 G 32265081.19 32265081.34 32265081.51 0.0090 0.0033

Neptune 83626-12-06 23:03 G 32265169.32 32265169.46 32265169.63 0.0090 0.0043

Neptune 83627-03-05 02:10 G 32265257.45 32265257.59 32265257.74 0.0090 0.0052

Neptune 83627-06-01 05:03 G 32265345.59 32265345.71 32265345.84 0.0090 0.0062

Neptune 83627-08-28 07:41 G 32265433.73 32265433.82 32265433.94 0.0090 0.0072

Neptune 83627-11-24 10:20 G 32265521.88 32265521.93 32265522.02 0.0090 0.0082

Saturn 83629-05-01 17:32 G 32266046.12 32266046.23 32266046.36 0.0298 0.0212

Saturn 83629-07-29 17:03 G 32266135.03 32266135.21 32266135.38 0.0298 0.0013

Saturn 83629-10-26 15:36 G 32266224.02 32266224.15 32266224.30 0.0298 0.0181

Mars 83629-11-25 06:29 G 32266253.72 32266253.77 32266253.82 0.1619 0.1455

Earth 83630-01-24 13:56 G 32266314.03 32266314.08 32266314.13 0.2708 0.2528

Moon 83630-01-24 15:08 G 32266314.06 32266314.13 32266314.21 0.2706 0.2274 *

Jupiter 83631-02-11 18:29 G 32266697.15 32266697.27 32266697.40 0.0507 0.0190

Jupiter 83631-05-12 01:12 G 32266786.52 32266786.55 32266786.59 0.0504 0.0488

Mars 83631-10-31 09:22 G 32266958.78 32266958.89 32266959.01 0.1633 0.0163

Venus 83632-04-25 12:00 G 32267135.96 32267136.00 32267136.04 0.3631 0.3292

Earth 83632-07-26 07:56 G 32267227.73 32267227.83 32267227.94 0.2625 0.1176

Moon 83632-07-26 08:39 G 32267227.75 32267227.86 32267227.97 0.2621 0.1038 *

Mars 83632-09-09 13:12 G 32267272.89 32267273.05 32267273.20 0.1902 0.0516

Jupiter 83637-07-11 01:41 G 32269038.43 32269038.57 32269038.70 0.0522 0.0318

Venus 83637-11-09 03:51 G 32269159.55 32269159.66 32269159.76 0.3632 0.0937

Mars 83641-03-22 20:39 G 32270389.24 32270389.36 32270389.47 0.1629 0.0263

Mars 83642-01-30 07:12 G 32270702.74 32270702.80 32270702.86 0.1908 0.1764

Jupiter 83642-11-30 22:48 G 32271007.35 32271007.45 32271007.54 0.0508 0.0354

Earth 83643-01-27 16:20 G 32271065.04 32271065.18 32271065.32 0.2708 0.0332

Moon 83643-01-27 17:17 G 32271065.08 32271065.22 32271065.36 0.2703 0.0291 *

Mars 83643-02-26 00:44 G 32271094.48 32271094.53 32271094.59 0.1645 0.1451

Jupiter 83643-02-28 05:17 G 32271096.62 32271096.72 32271096.82 0.0505 0.0321

Venus 83643-05-25 19:41 G 32271183.22 32271183.32 32271183.41 0.3632 0.1477

Saturn 83643-11-17 22:20 G 32271359.34 32271359.43 32271359.53 0.0263 0.0185

Saturn 83644-02-14 08:53 G 32271447.74 32271447.87 32271448.00 0.0263 0.0082

Saturn 83644-05-12 19:41 G 32271536.18 32271536.32 32271536.46 0.0263 0.0023

Saturn 83644-08-09 06:29 G 32271624.65 32271624.77 32271624.89 0.0263 0.0128

Saturn 83644-11-05 17:17 G 32271713.17 32271713.22 32271713.29 0.0263 0.0236

Earth 83645-07-29 03:08 G 32271978.51 32271978.63 32271978.75 0.2624 0.0157

Moon 83645-07-29 03:22 G 32271978.52 32271978.64 32271978.76 0.2618 0.0145 *

Venus 83647-05-24 18:00 G 32272643.15 32272643.25 32272643.36 0.3740 0.2588

Jupiter 83649-04-28 23:17 G 32273348.30 32273348.47 32273348.64 0.0521 0.0069

Mars 83650-08-13 07:41 G 32273819.72 32273819.82 32273819.93 0.1626 0.0650

Mars 83652-07-18 11:32 G 32274524.89 32274524.98 32274525.07 0.1641 0.1019

Jupiter 83654-12-17 09:22 G 32275406.76 32275406.89 32275407.02 0.0505 0.0155

Uranus 83655-09-06 09:36 G 32275669.85 32275669.90 32275669.97 0.0144 0.0128

Uranus 83655-12-03 13:56 G 32275757.98 32275758.08 32275758.17 0.0144 0.0104

Moon 83656-01-30 18:15 G 32275816.15 32275816.26 32275816.36 0.2701 0.1801

Earth 83656-01-30 18:29 G 32275816.16 32275816.27 32275816.37 0.2708 0.1789 *

Uranus 83656-02-29 18:00 G 32275846.13 32275846.25 32275846.36 0.0144 0.0081

Uranus 83656-05-27 22:05 G 32275934.29 32275934.42 32275934.55 0.0144 0.0058

Uranus 83656-08-24 02:10 G 32276022.45 32276022.59 32276022.73 0.0144 0.0035

Uranus 83656-11-20 06:15 G 32276110.62 32276110.76 32276110.90 0.0144 0.0012

Uranus 83657-02-16 10:34 G 32276198.80 32276198.94 32276199.08 0.0144 0.0012

Uranus 83657-05-15 14:39 G 32276286.97 32276287.11 32276287.25 0.0144 0.0035

Uranus 83657-08-11 18:44 G 32276375.16 32276375.28 32276375.42 0.0144 0.0059

Uranus 83657-11-07 23:03 G 32276463.35 32276463.46 32276463.58 0.0144 0.0083

Uranus 83658-02-04 03:08 G 32276551.55 32276551.63 32276551.74 0.0144 0.0107

Uranus 83658-05-03 07:27 G 32276639.76 32276639.81 32276639.88 0.0144 0.0131

Moon 83658-07-31 22:05 G 32276729.32 32276729.42 32276729.52 0.2619 0.1455

Earth 83658-07-31 22:34 G 32276729.34 32276729.44 32276729.54 0.2624 0.1508 *

Saturn 83658-09-18 16:34 G 32276778.12 32276778.19 32276778.27 0.0297 0.0267

Saturn 83658-12-16 16:05 G 32276867.00 32276867.17 32276867.34 0.0297 0.0068

Saturn 83659-03-15 14:53 G 32276955.96 32276956.12 32276956.28 0.0297 0.0127

Mars 83660-01-03 19:12 G 32277250.21 32277250.30 32277250.39 0.1623 0.1035

Jupiter 83661-02-14 21:22 G 32277658.23 32277658.39 32277658.56 0.0520 0.0170

Mars 83661-12-08 22:34 G 32277955.33 32277955.44 32277955.55 0.1637 0.0605

Mars 83662-10-19 19:27 G 32278270.16 32278270.31 32278270.46 0.1896 0.0786

Earth 83665-07-24 18:00 G 32279279.19 32279279.25 32279279.31 0.2625 0.2219

Moon 83665-07-24 18:44 G 32279279.21 32279279.28 32279279.35 0.2626 0.2051 *

Jupiter 83666-10-05 13:12 G 32279716.91 32279717.05 32279717.18 0.0506 0.0021

Mars 83669-05-26 06:29 G 32280680.71 32280680.77 32280680.82 0.1619 0.1412

Mars 83671-05-01 09:22 G 32281385.78 32281385.89 32281386.01 0.1633 0.0201

Mars 83672-03-10 14:10 G 32281699.93 32281700.09 32281700.25 0.1902 0.0412

Jupiter 83672-12-03 19:27 G 32281968.20 32281968.31 32281968.41 0.0520 0.0410

Saturn 83673-04-06 00:58 G 32282091.46 32282091.54 32282091.62 0.0264 0.0216

Saturn 83673-07-03 11:17 G 32282179.85 32282179.97 32282180.10 0.0264 0.0114

Saturn 83673-09-29 22:05 G 32282268.28 32282268.42 32282268.56 0.0264 0.0009

Saturn 83673-12-27 08:53 G 32282356.74 32282356.87 32282357.00 0.0264 0.0097

Saturn 83674-03-25 19:41 G 32282445.24 32282445.32 32282445.42 0.0264 0.0204

Earth 83676-01-25 19:56 G 32283116.25 32283116.33 32283116.42 0.2708 0.2111

Moon 83676-01-25 21:22 G 32283116.30 32283116.39 32283116.48 0.2705 0.2051 *

Jupiter 83678-07-24 17:03 G 32284027.09 32284027.21 32284027.33 0.0506 0.0188

Earth 83678-07-27 12:58 G 32284029.93 32284030.04 32284030.15 0.2625 0.0917

Moon 83678-07-27 13:27 G 32284029.95 32284030.06 32284030.18 0.2620 0.0922 *

Jupiter 83678-10-21 23:46 G 32284116.45 32284116.49 32284116.52 0.0504 0.0487

Mars 83680-09-20 20:39 G 32284816.24 32284816.36 32284816.47 0.1629 0.0216

Mars 83681-07-31 07:56 G 32285129.75 32285129.83 32285129.91 0.1907 0.1663

Mars 83682-08-27 00:44 G 32285521.49 32285521.53 32285521.58 0.1645 0.1494

Jupiter 83684-12-20 23:03 G 32286368.33 32286368.46 32286368.60 0.0522 0.0315

Saturn 83688-05-04 17:03 G 32287599.05 32287599.21 32287599.37 0.0298 0.0108

Saturn 83688-08-01 16:05 G 32287688.00 32287688.17 32287688.34 0.0298 0.0089

Saturn 83688-10-29 14:39 G 32287777.05 32287777.11 32287777.17 0.0298 0.0280

Venus 83688-11-30 09:22 G 32287808.82 32287808.89 32287808.97 0.3631 0.2416

Earth 83689-01-27 22:20 G 32287867.29 32287867.43 32287867.57 0.2708 0.0088

Moon 83689-01-27 23:03 G 32287867.32 32287867.46 32287867.60 0.2703 0.0236 *

Mars 83690-02-11 07:41 G 32288246.71 32288246.82 32288246.93 0.1626 0.0609

Jupiter 83690-05-12 20:39 G 32288337.27 32288337.36 32288337.46 0.0508 0.0361

Jupiter 83690-08-10 03:22 G 32288426.53 32288426.64 32288426.74 0.0505 0.0314

Earth 83691-07-30 08:10 G 32288780.72 32288780.84 32288780.96 0.2624 0.0418

Moon 83691-07-30 08:24 G 32288780.73 32288780.85 32288780.96 0.2618 0.0484 *

Mars 83692-01-17 11:32 G 32288951.89 32288951.98 32288952.07 0.1641 0.1064

Venus 83694-06-16 01:12 G 32289832.45 32289832.55 32289832.66 0.3632 0.0069

Jupiter 83696-10-08 21:08 G 32290678.21 32290678.38 32290678.55 0.0521 0.0070

Uranus 83697-12-22 01:27 G 32291117.48 32291117.56 32291117.67 0.0134 0.0113

Uranus 83698-03-20 07:56 G 32291205.70 32291205.83 32291205.97 0.0134 0.0088

Venus 83698-06-14 13:12 G 32291291.93 32291292.05 32291292.17 0.3741 0.2085

Uranus 83698-06-16 13:56 G 32291293.93 32291294.08 32291294.24 0.0134 0.0064

Uranus 83698-09-12 20:10 G 32291382.17 32291382.34 32291382.51 0.0134 0.0040

Uranus 83698-12-10 02:10 G 32291470.42 32291470.59 32291470.77 0.0134 0.0016

Uranus 83699-03-08 08:10 G 32291558.67 32291558.84 32291559.02 0.0134 0.0009

Uranus 83699-06-04 14:10 G 32291646.92 32291647.09 32291647.26 0.0134 0.0032

Mars 83699-07-04 18:58 G 32291677.20 32291677.29 32291677.38 0.1622 0.0995

Uranus 83699-08-31 20:10 G 32291735.18 32291735.34 32291735.50 0.0134 0.0055

Uranus 83699-11-28 01:41 G 32291823.44 32291823.57 32291823.73 0.0134 0.0079

Venus 83699-12-30 17:03 G 32291856.13 32291856.21 32291856.29 0.3632 0.2381

Uranus 83700-02-24 07:41 G 32291911.72 32291911.82 32291911.94 0.0134 0.0102

Uranus 83700-05-23 13:27 G 32292000.01 32292000.06 32292000.13 0.0134 0.0125

Mars 83701-06-09 22:34 G 32292382.33 32292382.44 32292382.55 0.1637 0.0645

Moon 83702-02-01 00:00 G 32292618.41 32292618.50 32292618.59 0.2701 0.2083

Earth 83702-02-01 00:15 G 32292618.43 32292618.51 32292618.59 0.2709 0.2186 *

Mars 83702-04-20 20:10 G 32292697.19 32292697.34 32292697.48 0.1896 0.0866

Jupiter 83702-05-30 07:12 G 32292736.67 32292736.80 32292736.93 0.0506 0.0147

Saturn 83702-08-25 04:34 G 32292823.63 32292823.69 32292823.75 0.0263 0.0236

Saturn 83702-11-21 14:53 G 32292912.01 32292912.12 32292912.25 0.0263 0.0135

Saturn 83703-02-18 01:41 G 32293000.43 32293000.57 32293000.71 0.0263 0.0030

Saturn 83703-05-17 12:29 G 32293088.89 32293089.02 32293089.15 0.0263 0.0075

Saturn 83703-08-13 23:17 G 32293177.37 32293177.47 32293177.57 0.0263 0.0182

Moon 83704-08-02 02:53 G 32293531.53 32293531.62 32293531.72 0.2619 0.1673

Earth 83704-08-02 03:36 G 32293531.56 32293531.65 32293531.74 0.2624 0.1782 *

Neptune 83705-07-16 12:58 G 32293880.03 32293880.04 32293880.05 0.0088 0.0087

Neptune 83705-10-12 14:24 G 32293968.05 32293968.10 32293968.16 0.0088 0.0080

Neptune 83706-01-08 15:36 G 32294056.09 32294056.15 32294056.24 0.0088 0.0073

Neptune 83706-04-06 17:17 G 32294144.14 32294144.22 32294144.32 0.0088 0.0065

Neptune 83706-07-03 18:58 G 32294232.19 32294232.29 32294232.39 0.0088 0.0058

Neptune 83706-09-29 20:24 G 32294320.24 32294320.35 32294320.47 0.0088 0.0051

Neptune 83706-12-26 21:51 G 32294408.29 32294408.41 32294408.54 0.0088 0.0043

Neptune 83707-03-24 23:32 G 32294496.35 32294496.48 32294496.61 0.0088 0.0036

Neptune 83707-06-21 00:58 G 32294584.41 32294584.54 32294584.68 0.0088 0.0029

Neptune 83707-09-17 02:24 G 32294672.47 32294672.60 32294672.74 0.0088 0.0022

Neptune 83707-12-14 04:05 G 32294760.53 32294760.67 32294760.81 0.0088 0.0014

Neptune 83708-03-11 05:32 G 32294848.59 32294848.73 32294848.87 0.0088 0.0007

Neptune 83708-06-07 07:12 G 32294936.66 32294936.80 32294936.94 0.0088 0.0002

Jupiter 83708-07-28 18:15 G 32294988.10 32294988.26 32294988.43 0.0520 0.0184

Neptune 83708-09-03 08:39 G 32295024.72 32295024.86 32295025.00 0.0088 0.0009

Mars 83708-11-25 06:29 G 32295107.71 32295107.77 32295107.83 0.1620 0.1370

Neptune 83708-11-30 10:05 G 32295112.79 32295112.92 32295113.07 0.0088 0.0016

Neptune 83709-02-26 11:46 G 32295200.85 32295200.99 32295201.13 0.0088 0.0024

Neptune 83709-05-25 13:12 G 32295288.92 32295289.05 32295289.19 0.0088 0.0031

Neptune 83709-08-21 14:53 G 32295376.99 32295377.12 32295377.25 0.0088 0.0039

Neptune 83709-11-17 16:20 G 32295465.07 32295465.18 32295465.31 0.0088 0.0046

Neptune 83710-02-13 18:00 G 32295553.14 32295553.25 32295553.37 0.0088 0.0054

Neptune 83710-05-12 19:27 G 32295641.22 32295641.31 32295641.42 0.0088 0.0062

Neptune 83710-08-08 21:22 G 32295729.30 32295729.39 32295729.48 0.0088 0.0069

Mars 83710-10-31 09:22 G 32295812.77 32295812.89 32295813.01 0.1633 0.0231

Neptune 83710-11-04 22:48 G 32295817.39 32295817.45 32295817.52 0.0088 0.0077

Neptune 83711-02-01 00:15 G 32295905.49 32295905.51 32295905.56 0.0088 0.0085

Earth 83711-07-26 22:48 G 32296081.38 32296081.45 32296081.53 0.2625 0.1966

Moon 83711-07-26 23:46 G 32296081.41 32296081.49 32296081.57 0.2625 0.1927 *

Mars 83711-09-10 15:08 G 32296126.97 32296127.13 32296127.29 0.1902 0.0312

Jupiter 83714-03-18 11:32 G 32297046.84 32297046.98 32297047.11 0.0506 0.0022

Saturn 83717-09-22 15:51 G 32298331.02 32298331.16 32298331.31 0.0297 0.0163

Saturn 83717-12-20 15:08 G 32298419.96 32298420.13 32298420.31 0.0297 0.0035

Saturn 83718-03-19 13:41 G 32298508.97 32298509.07 32298509.19 0.0297 0.0227

Mars 83720-03-22 20:39 G 32299243.24 32299243.36 32299243.47 0.1629 0.0178

Jupiter 83720-05-16 16:20 G 32299298.09 32299298.18 32299298.28 0.0520 0.0424

Mars 83721-01-30 08:39 G 32299556.77 32299556.86 32299556.96 0.1907 0.1569

Earth 83722-01-27 01:56 G 32299918.47 32299918.58 32299918.69 0.2708 0.1698

Moon 83722-01-27 03:22 G 32299918.52 32299918.64 32299918.76 0.2705 0.1456 *

Mars 83722-02-26 00:44 G 32299948.49 32299948.53 32299948.57 0.1645 0.1533

Earth 83724-07-28 18:00 G 32300832.14 32300832.25 32300832.36 0.2625 0.0656

Moon 83724-07-28 18:29 G 32300832.15 32300832.27 32300832.39 0.2619 0.0523 *

Jupiter 83726-01-04 15:22 G 32301357.02 32301357.14 32301357.26 0.0507 0.0186

Jupiter 83726-04-03 21:51 G 32301446.39 32301446.41 32301446.45 0.0504 0.0489

Mars 83729-08-13 07:41 G 32302673.71 32302673.82 32302673.93 0.1626 0.0565

Mars 83731-07-19 11:32 G 32303378.90 32303378.98 32303379.07 0.1641 0.1108

Saturn 83732-04-09 17:17 G 32303644.12 32303644.22 32303644.33 0.0264 0.0167

Jupiter 83732-06-02 20:53 G 32303698.24 32303698.37 32303698.51 0.0522 0.0314

Saturn 83732-07-07 04:05 G 32303732.53 32303732.67 32303732.80 0.0264 0.0063

Saturn 83732-10-03 14:39 G 32303820.98 32303821.11 32303821.25 0.0264 0.0042

Saturn 83732-12-31 01:41 G 32303909.45 32303909.57 32303909.68 0.0264 0.0148

Saturn 83733-03-29 12:29 G 32303997.99 32303998.02 32303998.06 0.0264 0.0256

Earth 83735-01-30 04:20 G 32304669.54 32304669.68 32304669.82 0.2708 0.0483

Moon 83735-01-30 04:48 G 32304669.56 32304669.70 32304669.84 0.2702 0.0436 *

Moon 83737-07-31 13:12 G 32305582.93 32305583.05 32305583.16 0.2618 0.0611

Earth 83737-07-31 13:12 G 32305582.94 32305583.05 32305583.17 0.2624 0.0683 *

Jupiter 83737-10-23 19:27 G 32305667.21 32305667.31 32305667.40 0.0507 0.0354

Jupiter 83738-01-21 01:41 G 32305756.47 32305756.57 32305756.68 0.0505 0.0318

Mars 83739-01-03 18:58 G 32306104.20 32306104.29 32306104.39 0.1622 0.0951

Uranus 83739-07-01 13:41 G 32306283.05 32306283.07 32306283.10 0.0144 0.0140

Uranus 83739-09-27 17:46 G 32306371.16 32306371.24 32306371.32 0.0144 0.0117

Uranus 83739-12-24 21:51 G 32306459.31 32306459.41 32306459.51 0.0144 0.0095

Uranus 83740-03-22 01:56 G 32306547.46 32306547.58 32306547.70 0.0144 0.0072

Uranus 83740-06-18 06:00 G 32306635.62 32306635.75 32306635.88 0.0144 0.0049

Uranus 83740-09-14 10:05 G 32306723.79 32306723.92 32306724.06 0.0144 0.0025

Pluto 83740-11-10 18:29 G 32306781.25 32306781.27 32306781.29 0.0062 0.0061

Mars 83740-12-08 22:34 G 32306809.33 32306809.44 32306809.54 0.1637 0.0689

Uranus 83740-12-11 14:24 G 32306811.96 32306812.10 32306812.24 0.0144 0.0004

Pluto 83741-02-06 18:58 G 32306869.22 32306869.29 32306869.41 0.0062 0.0051

Uranus 83741-03-09 18:29 G 32306900.13 32306900.27 32306900.41 0.0144 0.0022

Pluto 83741-05-05 20:24 G 32306957.22 32306957.35 32306957.48 0.0062 0.0040

Uranus 83741-06-05 22:34 G 32306988.31 32306988.44 32306988.58 0.0144 0.0046

Pluto 83741-08-01 21:08 G 32307045.24 32307045.38 32307045.54 0.0062 0.0030

Uranus 83741-09-02 02:53 G 32307076.50 32307076.62 32307076.74 0.0144 0.0069

Mars 83741-10-19 21:08 G 32307124.24 32307124.38 32307124.51 0.1896 0.0962

Pluto 83741-10-28 22:05 G 32307133.27 32307133.42 32307133.59 0.0062 0.0020

Uranus 83741-11-29 06:58 G 32307164.69 32307164.79 32307164.91 0.0144 0.0093

Pluto 83742-01-24 23:03 G 32307221.30 32307221.46 32307221.64 0.0062 0.0010

Uranus 83742-02-25 11:17 G 32307252.90 32307252.97 32307253.06 0.0144 0.0117

Pluto 83742-04-23 00:15 G 32307309.34 32307309.51 32307309.68 0.0062 0.0001

Uranus 83742-05-24 15:36 G 32307341.13 32307341.15 32307341.18 0.0144 0.0141

Pluto 83742-07-20 00:58 G 32307397.38 32307397.54 32307397.71 0.0062 0.0012

Pluto 83742-10-16 01:56 G 32307485.43 32307485.58 32307485.75 0.0062 0.0023

Pluto 83743-01-12 02:39 G 32307573.48 32307573.61 32307573.77 0.0063 0.0034

Pluto 83743-04-10 03:36 G 32307661.55 32307661.65 32307661.79 0.0063 0.0044

Pluto 83743-07-07 04:20 G 32307749.63 32307749.68 32307749.79 0.0063 0.0055

Jupiter 83744-03-21 18:44 G 32308008.11 32308008.28 32308008.45 0.0521 0.0069

Venus 83745-07-08 06:58 G 32308481.69 32308481.79 32308481.88 0.3631 0.1525

Saturn 83747-02-09 16:05 G 32309063.04 32309063.17 32309063.29 0.0298 0.0210

Saturn 83747-05-09 15:22 G 32309151.97 32309152.14 32309152.32 0.0298 0.0011

Saturn 83747-08-06 14:10 G 32309240.96 32309241.09 32309241.23 0.0298 0.0183

Moon 83748-02-02 05:46 G 32309420.71 32309420.74 32309420.78 0.2702 0.2595

Earth 83748-02-02 06:15 G 32309420.72 32309420.76 32309420.80 0.2708 0.2573 *

Mars 83748-05-26 06:29 G 32309534.70 32309534.77 32309534.83 0.1619 0.1331

Jupiter 83749-11-09 05:17 G 32310066.60 32310066.72 32310066.85 0.0506 0.0144

Mars 83750-05-01 09:22 G 32310239.78 32310239.89 32310240.01 0.1633 0.0278

Moon 83750-08-03 07:56 G 32310333.76 32310333.83 32310333.91 0.2619 0.2015

Earth 83750-08-03 08:39 G 32310333.79 32310333.86 32310333.93 0.2624 0.2053 *

Venus 83751-01-21 22:48 G 32310505.35 32310505.45 32310505.55 0.3631 0.0866

Mars 83751-03-11 15:36 G 32310553.99 32310554.15 32310554.31 0.1902 0.0234

Venus 83755-01-20 14:39 G 32311964.96 32311965.11 32311965.25 0.3741 0.0331

Jupiter 83756-01-08 16:34 G 32312318.03 32312318.19 32312318.35 0.0520 0.0176

Venus 83756-08-06 14:39 G 32312529.07 32312529.11 32312529.15 0.3632 0.3297

Earth 83757-07-27 03:51 G 32312883.58 32312883.66 32312883.75 0.2625 0.1709

Moon 83757-07-27 04:48 G 32312883.60 32312883.70 32312883.79 0.2623 0.1585 *

Mars 83759-09-21 20:24 G 32313670.24 32313670.35 32313670.47 0.1629 0.0138

Mars 83760-07-31 09:36 G 32313983.80 32313983.90 32313984.00 0.1908 0.1477

Mars 83761-08-27 00:44 G 32314375.50 32314375.53 32314375.57 0.1645 0.1577

Saturn 83761-08-27 21:08 G 32314376.28 32314376.38 32314376.47 0.0263 0.0187

Jupiter 83761-08-28 09:22 G 32314376.76 32314376.89 32314377.03 0.0507 0.0027

Saturn 83761-11-24 07:41 G 32314464.69 32314464.82 32314464.95 0.0263 0.0085

Saturn 83762-02-20 18:15 G 32314553.12 32314553.26 32314553.40 0.0263 0.0020

Saturn 83762-05-20 05:03 G 32314641.59 32314641.71 32314641.83 0.0263 0.0125

Saturn 83762-08-16 16:05 G 32314730.11 32314730.17 32314730.23 0.0263 0.0232

Jupiter 83767-10-27 13:41 G 32316627.98 32316628.07 32316628.17 0.0519 0.0431

Earth 83768-01-28 07:56 G 32316720.71 32316720.83 32316720.96 0.2708 0.1286

Moon 83768-01-28 09:08 G 32316720.75 32316720.88 32316721.01 0.2705 0.1215 *

Mars 83769-02-11 07:41 G 32317100.71 32317100.82 32317100.93 0.1626 0.0523

Earth 83770-07-29 23:03 G 32317634.34 32317634.46 32317634.58 0.2625 0.0399

Moon 83770-07-29 23:32 G 32317634.36 32317634.48 32317634.60 0.2619 0.0404 *

Mars 83771-01-17 11:32 G 32317805.89 32317805.98 32317806.06 0.1641 0.1144

Jupiter 83773-06-16 13:41 G 32318686.95 32318687.07 32318687.20 0.0507 0.0186

Jupiter 83773-09-13 20:24 G 32318776.32 32318776.35 32318776.38 0.0504 0.0491

Saturn 83776-06-28 14:39 G 32319795.04 32319795.11 32319795.20 0.0297 0.0266

Saturn 83776-09-25 14:24 G 32319883.93 32319884.10 32319884.27 0.0297 0.0066

Saturn 83776-12-23 13:12 G 32319972.90 32319973.05 32319973.21 0.0297 0.0130

Mars 83778-07-04 18:58 G 32320531.20 32320531.29 32320531.39 0.1623 0.0909

Jupiter 83779-11-13 18:15 G 32321028.13 32321028.26 32321028.40 0.0522 0.0305

Mars 83780-06-08 22:34 G 32321236.33 32321236.44 32321236.54 0.1637 0.0731

Earth 83781-01-30 10:20 G 32321471.80 32321471.93 32321472.06 0.2708 0.0883

Moon 83781-01-30 10:34 G 32321471.81 32321471.94 32321472.07 0.2701 0.0995 *

Mars 83781-04-19 21:51 G 32321551.28 32321551.41 32321551.54 0.1896 0.1054

Uranus 83781-10-16 03:22 G 32321730.59 32321730.64 32321730.71 0.0134 0.0127

Uranus 83782-01-12 09:51 G 32321818.79 32321818.91 32321819.02 0.0134 0.0102

Uranus 83782-04-10 15:51 G 32321907.02 32321907.16 32321907.31 0.0134 0.0078

Uranus 83782-07-07 21:51 G 32321995.26 32321995.41 32321995.58 0.0134 0.0054

Uranus 83782-10-04 04:05 G 32322083.50 32322083.67 32322083.85 0.0134 0.0030

Uranus 83782-12-31 10:05 G 32322171.75 32322171.92 32322172.10 0.0134 0.0007

Uranus 83783-03-29 16:05 G 32322260.00 32322260.17 32322260.35 0.0134 0.0018

Uranus 83783-06-25 22:05 G 32322348.25 32322348.42 32322348.59 0.0134 0.0042

Moon 83783-08-01 18:00 G 32322385.14 32322385.25 32322385.36 0.2618 0.0979

Earth 83783-08-01 18:15 G 32322385.15 32322385.26 32322385.37 0.2624 0.0949 *

Uranus 83783-09-22 03:51 G 32322436.51 32322436.66 32322436.82 0.0134 0.0065

Uranus 83783-12-19 09:51 G 32322524.78 32322524.91 32322525.04 0.0134 0.0088

Uranus 83784-03-16 15:22 G 32322613.06 32322613.14 32322613.25 0.0134 0.0112

Jupiter 83785-04-04 17:46 G 32322997.15 32322997.24 32322997.34 0.0508 0.0351

Jupiter 83785-07-03 00:15 G 32323086.41 32323086.51 32323086.62 0.0505 0.0322

Mars 83787-11-25 06:15 G 32323961.70 32323961.76 32323961.83 0.1619 0.1290

Neptune 83788-07-15 05:32 G 32324194.71 32324194.73 32324194.79 0.0090 0.0087

Neptune 83788-10-11 08:39 G 32324282.78 32324282.86 32324282.97 0.0090 0.0077

Neptune 83789-01-07 11:46 G 32324370.88 32324370.99 32324371.12 0.0090 0.0067

Neptune 83789-04-05 15:08 G 32324458.99 32324459.13 32324459.27 0.0090 0.0056

Neptune 83789-07-02 18:00 G 32324547.10 32324547.25 32324547.41 0.0090 0.0046

Neptune 83789-09-28 21:08 G 32324635.22 32324635.38 32324635.55 0.0090 0.0036

Mars 83789-10-30 09:22 G 32324666.78 32324666.89 32324667.01 0.1633 0.0318

Neptune 83789-12-26 00:00 G 32324723.34 32324723.50 32324723.68 0.0090 0.0026

Neptune 83790-03-24 03:08 G 32324811.46 32324811.63 32324811.81 0.0090 0.0016

Neptune 83790-06-20 06:15 G 32324899.58 32324899.76 32324899.94 0.0090 0.0005

Mars 83790-09-09 16:20 G 32324981.02 32324981.18 32324981.35 0.1902 0.0149

Neptune 83790-09-16 09:08 G 32324987.71 32324987.88 32324988.06 0.0090 0.0005

Neptune 83790-12-13 12:15 G 32325075.83 32325076.01 32325076.18 0.0090 0.0015

Saturn 83791-01-14 23:17 G 32325108.40 32325108.47 32325108.54 0.0264 0.0222

Neptune 83791-03-11 15:08 G 32325163.96 32325164.13 32325164.30 0.0090 0.0025

Saturn 83791-04-13 09:36 G 32325196.78 32325196.90 32325197.03 0.0263 0.0120

Neptune 83791-06-07 18:00 G 32325252.09 32325252.25 32325252.42 0.0090 0.0035

Saturn 83791-07-10 20:24 G 32325285.21 32325285.35 32325285.49 0.0263 0.0016

Jupiter 83791-09-01 16:34 G 32325338.02 32325338.19 32325338.36 0.0521 0.0070

Neptune 83791-09-03 20:39 G 32325340.22 32325340.36 32325340.53 0.0090 0.0045

Saturn 83791-10-07 07:12 G 32325373.67 32325373.80 32325373.93 0.0264 0.0090

Neptune 83791-11-30 23:32 G 32325428.36 32325428.48 32325428.64 0.0090 0.0055

Saturn 83792-01-03 18:00 G 32325462.16 32325462.25 32325462.34 0.0264 0.0196

Neptune 83792-02-27 02:53 G 32325516.50 32325516.62 32325516.74 0.0090 0.0064

Neptune 83792-05-25 05:32 G 32325604.64 32325604.73 32325604.83 0.0090 0.0074

Neptune 83792-08-21 08:10 G 32325692.80 32325692.84 32325692.92 0.0090 0.0084

Venus 83796-07-29 12:44 G 32327130.97 32327131.03 32327131.09 0.3631 0.2993

Moon 83796-08-03 13:12 G 32327135.98 32327136.05 32327136.11 0.2620 0.2188

Earth 83796-08-03 13:41 G 32327136.02 32327136.07 32327136.13 0.2624 0.2331 *

Jupiter 83797-04-21 04:20 G 32327396.55 32327396.68 32327396.81 0.0505 0.0154

Mars 83799-03-22 20:24 G 32328097.23 32328097.35 32328097.47 0.1629 0.0095

Mars 83800-01-30 10:20 G 32328410.82 32328410.93 32328411.05 0.1907 0.1378

Mars 83801-02-26 00:44 G 32328802.52 32328802.53 32328802.55 0.1645 0.1618

Venus 83802-02-13 04:20 G 32329154.58 32329154.68 32329154.79 0.3631 0.0648

Jupiter 83803-06-21 14:39 G 32329647.94 32329648.11 32329648.27 0.0520 0.0173

Earth 83803-07-29 08:53 G 32329685.78 32329685.87 32329685.97 0.2625 0.1446

Moon 83803-07-29 09:36 G 32329685.80 32329685.90 32329686.00 0.2621 0.1370 *

Saturn 83806-02-13 13:41 G 32330615.90 32330616.07 32330616.23 0.0298 0.0120

Saturn 83806-05-13 12:44 G 32330704.86 32330705.03 32330705.20 0.0298 0.0077

Saturn 83806-08-10 11:17 G 32330793.91 32330793.97 32330794.05 0.0298 0.0270

Venus 83807-08-29 20:10 G 32331178.25 32331178.34 32331178.43 0.3632 0.1766

Mars 83808-08-13 07:41 G 32331527.71 32331527.82 32331527.93 0.1626 0.0482

Jupiter 83809-02-08 07:41 G 32331706.69 32331706.82 32331706.96 0.0507 0.0029

Mars 83810-07-19 11:32 G 32332232.90 32332232.98 32332233.06 0.1641 0.1190

Venus 83811-08-28 15:51 G 32332638.06 32332638.16 32332638.26 0.3741 0.2668

Earth 83814-01-29 14:10 G 32333522.95 32333523.09 32333523.22 0.2708 0.0874

Moon 83814-01-29 14:53 G 32333522.99 32333523.12 32333523.26 0.2703 0.0731 *

Jupiter 83815-04-09 12:29 G 32333957.91 32333958.02 32333958.12 0.0519 0.0416

Earth 83816-07-31 04:05 G 32334436.55 32334436.67 32334436.79 0.2625 0.0134

Moon 83816-07-31 04:20 G 32334436.56 32334436.68 32334436.80 0.2619 0.0061 *

Mars 83818-01-03 18:58 G 32334958.19 32334958.29 32334958.39 0.1622 0.0872

Mars 83819-12-09 22:20 G 32335663.33 32335663.43 32335663.54 0.1637 0.0770

Saturn 83820-06-04 02:39 G 32335840.57 32335840.61 32335840.66 0.0263 0.0243

Saturn 83820-08-31 13:12 G 32335928.94 32335929.05 32335929.17 0.0263 0.0142

Mars 83820-10-19 22:20 G 32335978.30 32335978.43 32335978.56 0.1896 0.1127

Jupiter 83820-11-27 12:00 G 32336016.87 32336017.00 32336017.12 0.0508 0.0190

Saturn 83820-11-27 23:46 G 32336017.35 32336017.49 32336017.63 0.0263 0.0039

Saturn 83821-02-24 10:34 G 32336105.80 32336105.94 32336106.07 0.0263 0.0066

Jupiter 83821-02-24 18:29 G 32336106.24 32336106.27 32336106.30 0.0505 0.0489

Saturn 83821-05-23 21:22 G 32336194.28 32336194.39 32336194.49 0.0263 0.0172

Uranus 83823-07-22 20:53 G 32336984.33 32336984.37 32336984.42 0.0144 0.0134

Uranus 83823-10-19 00:58 G 32337072.46 32337072.54 32337072.63 0.0144 0.0111

Uranus 83824-01-15 05:03 G 32337160.60 32337160.71 32337160.82 0.0144 0.0088

Uranus 83824-04-12 09:08 G 32337248.76 32337248.88 32337249.01 0.0144 0.0065

Uranus 83824-07-09 13:12 G 32337336.92 32337337.05 32337337.19 0.0144 0.0042

Uranus 83824-10-05 17:17 G 32337425.09 32337425.22 32337425.36 0.0144 0.0020

Uranus 83825-01-01 21:36 G 32337513.26 32337513.40 32337513.54 0.0144 0.0005

Uranus 83825-03-31 01:41 G 32337601.44 32337601.57 32337601.71 0.0144 0.0028

Uranus 83825-06-27 05:46 G 32337689.62 32337689.74 32337689.88 0.0144 0.0053

Uranus 83825-09-23 10:05 G 32337777.81 32337777.92 32337778.04 0.0144 0.0076

Uranus 83825-12-20 14:24 G 32337866.00 32337866.10 32337866.20 0.0144 0.0100

Uranus 83826-03-18 18:44 G 32337954.21 32337954.28 32337954.35 0.0144 0.0124

Earth 83827-02-01 16:05 G 32338274.05 32338274.17 32338274.30 0.2708 0.1288

Moon 83827-02-01 16:20 G 32338274.06 32338274.18 32338274.31 0.2701 0.1220 *

Jupiter 83827-04-26 16:05 G 32338358.03 32338358.17 32338358.31 0.0521 0.0305

Mars 83827-05-27 06:15 G 32338388.69 32338388.76 32338388.84 0.1619 0.1248

Mars 83829-05-01 09:22 G 32339093.77 32339093.89 32339094.00 0.1633 0.0357

Moon 83829-08-02 23:03 G 32339187.35 32339187.46 32339187.57 0.2618 0.1106

Earth 83829-08-02 23:17 G 32339187.37 32339187.47 32339187.58 0.2624 0.1220 *

Mars 83830-03-11 17:32 G 32339408.07 32339408.23 32339408.39 0.1902 0.0034

Pluto 83832-06-23 12:44 G 32340242.99 32340243.03 32340243.10 0.0082 0.0075

Jupiter 83832-09-15 16:20 G 32340327.08 32340327.18 32340327.27 0.0508 0.0350

Pluto 83832-09-19 14:24 G 32340331.00 32340331.10 32340331.21 0.0082 0.0054

Jupiter 83832-12-13 22:48 G 32340416.34 32340416.45 32340416.55 0.0505 0.0325

Pluto 83832-12-16 15:51 G 32340419.03 32340419.16 32340419.30 0.0082 0.0033

Pluto 83833-03-14 17:32 G 32340507.08 32340507.23 32340507.37 0.0081 0.0013

Pluto 83833-06-10 18:44 G 32340595.14 32340595.28 32340595.43 0.0081 0.0009

Pluto 83833-09-06 20:10 G 32340683.21 32340683.34 32340683.49 0.0081 0.0028

Pluto 83833-12-03 21:51 G 32340771.29 32340771.41 32340771.53 0.0081 0.0048

Pluto 83834-03-01 22:48 G 32340859.39 32340859.45 32340859.55 0.0081 0.0069

Saturn 83835-07-03 12:00 G 32341347.86 32341348.00 32341348.14 0.0298 0.0179

Saturn 83835-09-30 11:17 G 32341436.80 32341436.97 32341437.15 0.0298 0.0020

Saturn 83835-12-28 10:05 G 32341525.80 32341525.92 32341526.04 0.0298 0.0213

Earth 83836-07-26 18:58 G 32341737.26 32341737.29 32341737.33 0.2625 0.2481

Moon 83836-07-26 19:41 G 32341737.27 32341737.32 32341737.37 0.2626 0.2359 *

Mars 83838-09-21 20:24 G 32342524.24 32342524.35 32342524.47 0.1629 0.0071

Jupiter 83839-02-12 14:24 G 32342667.93 32342668.10 32342668.27 0.0521 0.0068

Mars 83839-08-01 11:17 G 32342837.85 32342837.97 32342838.09 0.1907 0.1285

Moon 83842-08-05 18:00 G 32343938.23 32343938.25 32343938.27 0.2622 0.2570

Earth 83842-08-05 18:44 G 32343938.27 32343938.28 32343938.30 0.2624 0.2601 *

Jupiter 83844-10-02 02:53 G 32344726.49 32344726.62 32344726.74 0.0506 0.0160

Earth 83847-01-27 17:17 G 32345574.21 32345574.22 32345574.24 0.2708 0.2694

Moon 83847-01-27 18:44 G 32345574.24 32345574.28 32345574.33 0.2707 0.2568 *

Mars 83848-02-12 07:41 G 32345954.71 32345954.82 32345954.93 0.1626 0.0441

Earth 83849-07-29 13:56 G 32346487.98 32346488.08 32346488.19 0.2625 0.1190

Moon 83849-07-29 14:39 G 32346488.00 32346488.11 32346488.22 0.2621 0.1102 *

Mars 83850-01-17 11:32 G 32346659.90 32346659.98 32346660.06 0.1641 0.1231

Saturn 83850-01-18 15:08 G 32346661.03 32346661.13 32346661.23 0.0263 0.0178

Saturn 83850-04-17 01:41 G 32346749.44 32346749.57 32346749.70 0.0263 0.0075

Saturn 83850-07-14 12:15 G 32346837.87 32346838.01 32346838.15 0.0263 0.0029

Saturn 83850-10-10 23:03 G 32346926.34 32346926.46 32346926.58 0.0263 0.0134

Jupiter 83850-12-01 12:29 G 32346977.86 32346978.02 32346978.19 0.0520 0.0170

Saturn 83851-01-07 09:51 G 32347014.86 32347014.91 32347014.97 0.0263 0.0241

Venus 83853-03-06 10:05 G 32347803.84 32347803.92 32347804.01 0.3631 0.2115

Jupiter 83856-07-21 06:58 G 32349036.65 32349036.79 32349036.92 0.0506 0.0014

Mars 83857-07-04 18:58 G 32349385.19 32349385.29 32349385.39 0.1622 0.0826

Venus 83858-09-20 01:56 G 32349827.47 32349827.58 32349827.68 0.3631 0.0258

Mars 83859-06-09 22:20 G 32350090.33 32350090.43 32350090.54 0.1637 0.0813

Earth 83860-01-30 19:56 G 32350325.19 32350325.33 32350325.47 0.2708 0.0469

Moon 83860-01-30 20:39 G 32350325.22 32350325.36 32350325.50 0.2702 0.0379 *

Mars 83860-04-19 23:17 G 32350405.35 32350405.47 32350405.59 0.1896 0.1225

Moon 83862-08-01 09:08 G 32351238.76 32351238.88 32351239.00 0.2618 0.0147

Earth 83862-08-01 09:08 G 32351238.76 32351238.88 32351239.00 0.2625 0.0145 *

Venus 83862-09-18 10:48 G 32351286.83 32351286.95 32351287.07 0.3741 0.2051

Jupiter 83862-09-19 10:34 G 32351287.84 32351287.94 32351288.05 0.0519 0.0408

Venus 83864-04-04 17:46 G 32351851.17 32351851.24 32351851.31 0.3632 0.2663

Saturn 83864-11-19 09:51 G 32352079.82 32352079.91 32352080.02 0.0298 0.0243

Saturn 83865-02-16 09:36 G 32352168.73 32352168.90 32352169.08 0.0298 0.0043

Saturn 83865-05-16 08:39 G 32352257.72 32352257.86 32352258.01 0.0298 0.0154

Uranus 83865-11-06 11:32 G 32352431.90 32352431.98 32352432.08 0.0134 0.0116

Uranus 83866-02-02 17:32 G 32352520.12 32352520.23 32352520.38 0.0134 0.0092

Uranus 83866-05-02 00:00 G 32352608.35 32352608.50 32352608.66 0.0134 0.0067

Uranus 83866-07-29 06:00 G 32352696.59 32352696.75 32352696.93 0.0134 0.0043

Uranus 83866-10-25 12:15 G 32352784.83 32352785.01 32352785.19 0.0134 0.0019

Mars 83866-11-25 06:15 G 32352815.68 32352815.76 32352815.84 0.1619 0.1208

Uranus 83867-01-21 18:15 G 32352873.08 32352873.26 32352873.44 0.0134 0.0005

Uranus 83867-04-20 00:00 G 32352961.33 32352961.50 32352961.68 0.0134 0.0029

Uranus 83867-07-17 06:00 G 32353049.59 32353049.75 32353049.92 0.0134 0.0052

Uranus 83867-10-13 12:00 G 32353137.86 32353138.00 32353138.15 0.0134 0.0075

Uranus 83868-01-09 17:32 G 32353226.13 32353226.23 32353226.36 0.0134 0.0099

Uranus 83868-04-06 23:17 G 32353314.42 32353314.47 32353314.56 0.0134 0.0122

Jupiter 83868-05-09 10:20 G 32353346.81 32353346.93 32353347.06 0.0507 0.0185

Jupiter 83868-08-06 17:03 G 32353436.19 32353436.21 32353436.24 0.0505 0.0493

Mars 83868-10-30 09:22 G 32353520.78 32353520.89 32353521.01 0.1633 0.0399

Mars 83869-09-09 17:46 G 32353835.08 32353835.24 32353835.41 0.1902 0.0047

Neptune 83870-04-13 11:46 G 32354050.97 32354050.99 32354051.03 0.0088 0.0085

Neptune 83870-07-10 13:12 G 32354139.00 32354139.05 32354139.12 0.0088 0.0078

Neptune 83870-10-06 14:39 G 32354227.04 32354227.11 32354227.21 0.0088 0.0071

Neptune 83871-01-02 16:34 G 32354315.09 32354315.19 32354315.28 0.0088 0.0063

Neptune 83871-03-31 17:46 G 32354403.14 32354403.24 32354403.36 0.0088 0.0056

Neptune 83871-06-27 19:12 G 32354491.19 32354491.30 32354491.43 0.0088 0.0049

Neptune 83871-09-23 20:39 G 32354579.25 32354579.36 32354579.50 0.0088 0.0042

Neptune 83871-12-20 22:20 G 32354667.31 32354667.43 32354667.57 0.0088 0.0034

Neptune 83872-03-17 23:46 G 32354755.36 32354755.49 32354755.63 0.0088 0.0027

Neptune 83872-06-14 01:27 G 32354843.42 32354843.56 32354843.70 0.0088 0.0019

Neptune 83872-09-10 02:53 G 32354931.49 32354931.62 32354931.77 0.0088 0.0012

Neptune 83872-12-07 04:34 G 32355019.55 32355019.69 32355019.83 0.0088 0.0004

Moon 83873-02-01 22:05 G 32355076.31 32355076.42 32355076.53 0.2702 0.1725

Earth 83873-02-01 22:05 G 32355076.31 32355076.42 32355076.53 0.2708 0.1679 *

Neptune 83873-03-05 06:00 G 32355107.61 32355107.75 32355107.90 0.0088 0.0004

Neptune 83873-06-01 07:41 G 32355195.68 32355195.82 32355195.96 0.0088 0.0011

Neptune 83873-08-28 09:08 G 32355283.74 32355283.88 32355284.02 0.0088 0.0018

Neptune 83873-11-24 10:48 G 32355371.81 32355371.95 32355372.08 0.0088 0.0026

Neptune 83874-02-20 12:15 G 32355459.88 32355460.01 32355460.15 0.0088 0.0033

Neptune 83874-05-19 13:56 G 32355547.95 32355548.08 32355548.20 0.0088 0.0041

Neptune 83874-08-15 15:22 G 32355636.03 32355636.14 32355636.26 0.0088 0.0048

Jupiter 83874-10-06 15:08 G 32355688.00 32355688.13 32355688.26 0.0521 0.0326

Neptune 83874-11-11 17:03 G 32355724.10 32355724.21 32355724.32 0.0088 0.0056

Neptune 83875-02-07 18:29 G 32355812.18 32355812.27 32355812.37 0.0088 0.0064

Neptune 83875-05-06 19:56 G 32355900.26 32355900.33 32355900.43 0.0088 0.0072

Neptune 83875-08-02 21:51 G 32355988.35 32355988.41 32355988.47 0.0088 0.0079

Moon 83875-08-04 04:05 G 32355989.57 32355989.67 32355989.77 0.2618 0.1503

Earth 83875-08-04 04:20 G 32355989.59 32355989.68 32355989.78 0.2624 0.1497 *

Neptune 83875-10-29 23:17 G 32356076.46 32356076.47 32356076.50 0.0088 0.0087

Mars 83876-04-16 17:46 G 32356246.22 32356246.24 32356246.26 0.1616 0.1579

Mars 83878-03-22 20:24 G 32356951.23 32356951.35 32356951.47 0.1629 0.0008

Mars 83879-01-30 12:00 G 32357264.88 32357265.00 32357265.13 0.1908 0.1192

Saturn 83879-06-07 18:15 G 32357393.18 32357393.26 32357393.35 0.0263 0.0202

Saturn 83879-09-04 04:48 G 32357481.58 32357481.70 32357481.83 0.0263 0.0100

Saturn 83879-12-01 15:36 G 32357570.01 32357570.15 32357570.28 0.0263 0.0008

Jupiter 83880-02-26 14:39 G 32357657.01 32357657.11 32357657.20 0.0508 0.0350

Saturn 83880-02-28 02:10 G 32357658.47 32357658.59 32357658.72 0.0263 0.0109

Jupiter 83880-05-25 21:08 G 32357746.27 32357746.38 32357746.48 0.0506 0.0326

Saturn 83880-05-26 13:12 G 32357746.97 32357747.05 32357747.13 0.0263 0.0215

Earth 83882-07-28 00:00 G 32358539.44 32358539.50 32358539.56 0.2625 0.2229

Moon 83882-07-28 00:44 G 32358539.47 32358539.53 32358539.59 0.2625 0.2192 *

Jupiter 83886-07-25 12:44 G 32359997.86 32359998.03 32359998.20 0.0520 0.0077

Mars 83887-08-13 07:41 G 32360381.70 32360381.82 32360381.93 0.1626 0.0399

Mars 83889-07-18 11:32 G 32361086.90 32361086.98 32361087.05 0.1641 0.1268

Jupiter 83892-03-14 01:12 G 32362056.43 32362056.55 32362056.68 0.0506 0.0165

Earth 83893-01-27 23:32 G 32362376.40 32362376.48 32362376.55 0.2708 0.2267

Moon 83893-01-28 00:44 G 32362376.44 32362376.53 32362376.62 0.2706 0.2046 *

Saturn 83894-07-06 08:10 G 32362900.67 32362900.84 32362901.00 0.0298 0.0102

Saturn 83894-10-03 07:12 G 32362989.64 32362989.80 32362989.97 0.0298 0.0095

Saturn 83894-12-31 05:46 G 32363078.70 32363078.74 32363078.79 0.0298 0.0288

Earth 83895-07-30 18:58 G 32363290.18 32363290.29 32363290.40 0.2625 0.0929

Moon 83895-07-30 19:41 G 32363290.20 32363290.32 32363290.43 0.2621 0.0832 *

Mars 83897-01-02 18:58 G 32363812.18 32363812.29 32363812.39 0.1622 0.0787

Jupiter 83898-05-13 10:48 G 32364307.78 32364307.95 32364308.11 0.0520 0.0163

Mars 83898-12-08 22:20 G 32364517.33 32364517.43 32364517.54 0.1637 0.0855

Mars 83899-10-20 00:00 G 32364832.38 32364832.50 32364832.62 0.1896 0.1309

Jupiter 83904-01-02 05:32 G 32366366.60 32366366.73 32366366.87 0.0506 0.0016

Venus 83904-03-28 15:51 G 32366453.15 32366453.16 32366453.18 0.3631 0.3572

Earth 83906-02-01 01:56 G 32367127.44 32367127.58 32367127.72 0.2708 0.0075

Moon 83906-02-01 02:39 G 32367127.47 32367127.61 32367127.75 0.2702 0.0004 *

Mars 83906-05-27 06:15 G 32367242.68 32367242.76 32367242.84 0.1619 0.1165

Uranus 83907-08-13 04:05 G 32367685.62 32367685.67 32367685.74 0.0144 0.0128

Uranus 83907-11-09 08:24 G 32367773.76 32367773.85 32367773.94 0.0144 0.0105

Uranus 83908-02-05 12:29 G 32367861.90 32367862.02 32367862.13 0.0144 0.0082

Mars 83908-05-01 09:22 G 32367947.78 32367947.89 32367948.00 0.1633 0.0441

Uranus 83908-05-03 16:34 G 32367950.06 32367950.19 32367950.32 0.0144 0.0059

Uranus 83908-07-30 20:39 G 32368038.22 32368038.36 32368038.49 0.0144 0.0035

Moon 83908-08-02 14:10 G 32368040.97 32368041.09 32368041.21 0.2618 0.0408

Earth 83908-08-02 14:10 G 32368040.97 32368041.09 32368041.21 0.2624 0.0405 *

Saturn 83908-10-25 20:10 G 32368125.29 32368125.34 32368125.40 0.0263 0.0239

Uranus 83908-10-27 00:44 G 32368126.39 32368126.53 32368126.67 0.0144 0.0012

Saturn 83909-01-22 06:44 G 32368213.66 32368213.78 32368213.89 0.0263 0.0137

Uranus 83909-01-23 04:48 G 32368214.56 32368214.70 32368214.84 0.0144 0.0012

Mars 83909-03-11 18:44 G 32368262.12 32368262.28 32368262.45 0.1902 0.0147

Saturn 83909-04-20 17:17 G 32368302.08 32368302.22 32368302.35 0.0263 0.0035

Uranus 83909-04-21 09:08 G 32368302.74 32368302.88 32368303.01 0.0144 0.0035

Saturn 83909-07-18 03:51 G 32368390.53 32368390.66 32368390.80 0.0263 0.0070

Uranus 83909-07-18 13:12 G 32368390.93 32368391.05 32368391.18 0.0144 0.0059

Venus 83909-10-12 07:41 G 32368476.72 32368476.82 32368476.92 0.3631 0.1236

Saturn 83909-10-14 14:39 G 32368479.01 32368479.11 32368479.22 0.0263 0.0175

Uranus 83909-10-14 17:32 G 32368479.12 32368479.23 32368479.35 0.0144 0.0083 *

Uranus 83910-01-10 21:36 G 32368567.31 32368567.40 32368567.50 0.0144 0.0107

Jupiter 83910-03-02 08:53 G 32368617.76 32368617.87 32368617.98 0.0519 0.0401

Uranus 83910-04-09 01:56 G 32368655.53 32368655.58 32368655.64 0.0144 0.0131

Venus 83915-04-27 23:17 G 32370500.37 32370500.47 32370500.57 0.3631 0.1139

Mars 83915-10-17 17:46 G 32370673.21 32370673.24 32370673.27 0.1616 0.1538

Jupiter 83915-10-21 09:51 G 32370676.78 32370676.91 32370677.03 0.0507 0.0163

Mars 83917-09-21 20:24 G 32371378.23 32371378.35 32371378.47 0.1629 0.0042

Mars 83918-08-01 12:58 G 32371691.90 32371692.04 32371692.17 0.1907 0.1099

Moon 83919-02-04 03:36 G 32371878.56 32371878.65 32371878.75 0.2702 0.2009

Earth 83919-02-04 04:05 G 32371878.58 32371878.67 32371878.75 0.2708 0.2074 *

Venus 83919-04-26 12:00 G 32371959.86 32371960.00 32371960.15 0.3741 0.0375

Venus 83920-11-10 15:08 G 32372524.12 32372524.13 32372524.15 0.3632 0.3579

Moon 83921-08-05 08:53 G 32372791.78 32372791.87 32372791.97 0.2619 0.1662

Earth 83921-08-05 09:36 G 32372791.81 32372791.90 32372791.98 0.2624 0.1770 *

Jupiter 83922-03-19 13:41 G 32373017.94 32373018.07 32373018.20 0.0521 0.0341

Saturn 83923-11-24 04:48 G 32373632.56 32373632.70 32373632.85 0.0298 0.0175

Saturn 83924-02-21 04:20 G 32373721.51 32373721.68 32373721.86 0.0298 0.0025

Saturn 83924-05-20 03:22 G 32373810.52 32373810.64 32373810.75 0.0298 0.0220

Mars 83927-02-12 07:41 G 32374808.70 32374808.82 32374808.93 0.1625 0.0363

Jupiter 83927-08-09 13:12 G 32374986.96 32374987.05 32374987.15 0.0508 0.0342

Jupiter 83927-11-06 19:41 G 32375076.22 32375076.32 32375076.42 0.0505 0.0335

Earth 83928-07-29 05:03 G 32375341.63 32375341.71 32375341.78 0.2625 0.1977

Moon 83928-07-29 05:46 G 32375341.66 32375341.74 32375341.82 0.2624 0.1807 *

Mars 83929-01-17 11:32 G 32375513.91 32375513.98 32375514.05 0.1641 0.1313

Jupiter 83934-01-05 12:00 G 32377327.83 32377328.00 32377328.17 0.0520 0.0106

Mars 83936-07-04 18:44 G 32378239.18 32378239.28 32378239.39 0.1622 0.0750

Mars 83938-06-09 22:20 G 32378944.33 32378944.43 32378944.53 0.1637 0.0893

Saturn 83938-06-11 09:51 G 32378945.80 32378945.91 32378946.02 0.0263 0.0163

Saturn 83938-09-07 20:24 G 32379034.21 32379034.35 32379034.48 0.0263 0.0061

Saturn 83938-12-05 06:58 G 32379122.65 32379122.79 32379122.93 0.0263 0.0043

Earth 83939-01-30 05:32 G 32379178.63 32379178.73 32379178.83 0.2708 0.1846

Moon 83939-01-30 06:44 G 32379178.67 32379178.78 32379178.88 0.2704 0.1797 *

Saturn 83939-03-03 17:46 G 32379211.12 32379211.24 32379211.35 0.0263 0.0149

Mars 83939-04-21 00:44 G 32379259.42 32379259.53 32379259.64 0.1896 0.1388

Jupiter 83939-05-28 17:32 G 32379297.22 32379297.23 32379297.24 0.0509 0.0506

Saturn 83939-05-31 04:34 G 32379299.66 32379299.69 32379299.72 0.0263 0.0255

Jupiter 83939-08-25 23:46 G 32379386.37 32379386.49 32379386.62 0.0506 0.0169

Earth 83941-08-01 00:00 G 32380092.38 32380092.50 32380092.61 0.2625 0.0673

Moon 83941-08-01 00:29 G 32380092.40 32380092.52 32380092.64 0.2620 0.0640 *

Jupiter 83945-10-24 09:22 G 32381637.73 32381637.89 32381638.06 0.0519 0.0146

Mars 83945-11-25 06:15 G 32381669.68 32381669.76 32381669.84 0.1619 0.1124

Mars 83947-10-31 09:22 G 32382374.77 32382374.89 32382375.00 0.1633 0.0482

Mars 83948-09-09 19:41 G 32382689.16 32382689.32 32382689.49 0.1902 0.0235

Uranus 83949-08-31 13:12 G 32383045.03 32383045.05 32383045.11 0.0134 0.0130

Uranus 83949-11-27 19:41 G 32383133.22 32383133.32 32383133.44 0.0134 0.0105

Uranus 83950-02-24 01:56 G 32383221.44 32383221.58 32383221.73 0.0134 0.0081

Uranus 83950-05-23 07:56 G 32383309.68 32383309.83 32383310.00 0.0134 0.0057

Uranus 83950-08-19 14:10 G 32383397.92 32383398.09 32383398.27 0.0134 0.0033

Uranus 83950-11-15 20:24 G 32383486.17 32383486.35 32383486.52 0.0134 0.0009

Uranus 83951-02-12 02:10 G 32383574.42 32383574.59 32383574.77 0.0134 0.0016

Uranus 83951-05-11 08:10 G 32383662.67 32383662.84 32383663.01 0.0134 0.0039

Jupiter 83951-06-14 04:05 G 32383696.54 32383696.67 32383696.81 0.0507 0.0018

Uranus 83951-08-07 13:56 G 32383750.94 32383751.08 32383751.25 0.0134 0.0063

Uranus 83951-11-03 19:56 G 32383839.20 32383839.33 32383839.47 0.0134 0.0086

Uranus 83952-01-31 01:41 G 32383927.48 32383927.57 32383927.68 0.0134 0.0109

Earth 83952-02-02 07:56 G 32383929.69 32383929.83 32383929.97 0.2708 0.0356

Moon 83952-02-02 08:39 G 32383929.72 32383929.86 32383930.00 0.2702 0.0473 *

Uranus 83952-04-28 07:27 G 32384015.79 32384015.81 32384015.85 0.0134 0.0132

Saturn 83953-04-12 02:53 G 32384364.52 32384364.62 32384364.73 0.0298 0.0238

Neptune 83953-04-13 03:08 G 32384365.58 32384365.63 32384365.69 0.0090 0.0085

Saturn 83953-07-10 02:24 G 32384453.43 32384453.60 32384453.78 0.0298 0.0038

Neptune 83953-07-10 06:00 G 32384453.67 32384453.75 32384453.86 0.0090 0.0075 *

Neptune 83953-10-06 09:08 G 32384541.77 32384541.88 32384542.02 0.0090 0.0065

Saturn 83953-10-07 01:27 G 32384542.42 32384542.56 32384542.71 0.0298 0.0160

Neptune 83954-01-02 12:15 G 32384629.88 32384630.01 32384630.16 0.0090 0.0055

Neptune 83954-03-31 15:36 G 32384717.99 32384718.15 32384718.30 0.0090 0.0044

Neptune 83954-06-27 18:29 G 32384806.11 32384806.27 32384806.44 0.0090 0.0034

Moon 83954-08-03 19:12 G 32384843.18 32384843.30 32384843.41 0.2618 0.0677

Earth 83954-08-03 19:12 G 32384843.18 32384843.30 32384843.41 0.2625 0.0670 *

Neptune 83954-09-23 21:36 G 32384894.23 32384894.40 32384894.57 0.0090 0.0024

Neptune 83954-12-21 00:29 G 32384982.35 32384982.52 32384982.70 0.0090 0.0014

Neptune 83955-03-19 03:36 G 32385070.48 32385070.65 32385070.83 0.0090 0.0004

Mars 83955-04-17 17:46 G 32385100.20 32385100.24 32385100.28 0.1616 0.1497

Neptune 83955-06-15 06:44 G 32385158.60 32385158.78 32385158.96 0.0090 0.0007

Neptune 83955-09-11 09:36 G 32385246.73 32385246.90 32385247.08 0.0090 0.0017

Neptune 83955-12-08 12:29 G 32385334.86 32385335.02 32385335.19 0.0090 0.0027

Neptune 83956-03-05 15:22 G 32385422.99 32385423.14 32385423.31 0.0090 0.0037

Neptune 83956-06-01 18:15 G 32385511.12 32385511.26 32385511.42 0.0090 0.0047

Neptune 83956-08-28 21:08 G 32385599.26 32385599.38 32385599.53 0.0090 0.0057

Neptune 83956-11-25 00:15 G 32385687.40 32385687.51 32385687.63 0.0090 0.0066

Neptune 83957-02-21 02:53 G 32385775.54 32385775.62 32385775.73 0.0090 0.0076

Mars 83957-03-22 20:24 G 32385805.23 32385805.35 32385805.47 0.1629 0.0078

Neptune 83957-05-20 05:46 G 32385863.71 32385863.74 32385863.80 0.0090 0.0086

Jupiter 83957-08-12 07:27 G 32385947.70 32385947.81 32385947.93 0.0519 0.0387

Mars 83958-01-30 13:41 G 32386118.93 32386119.07 32386119.21 0.1908 0.1007

Venus 83960-11-02 13:12 G 32387125.99 32387126.05 32387126.12 0.3631 0.2708

Jupiter 83963-04-02 08:39 G 32388006.73 32388006.86 32388006.99 0.0507 0.0152

Moon 83965-02-04 09:22 G 32388680.83 32388680.89 32388680.95 0.2702 0.2385

Earth 83965-02-04 09:51 G 32388680.86 32388680.91 32388680.97 0.2708 0.2475 *

Venus 83966-05-19 05:03 G 32389149.60 32389149.71 32389149.81 0.3631 0.0364

Mars 83966-08-13 07:41 G 32389235.70 32389235.82 32389235.93 0.1626 0.0321

Moon 83967-08-06 13:56 G 32389594.00 32389594.08 32389594.16 0.2621 0.1971

Earth 83967-08-06 14:39 G 32389594.03 32389594.11 32389594.18 0.2624 0.2043 *

Saturn 83967-10-29 11:17 G 32389677.89 32389677.97 32389678.06 0.0263 0.0202

Saturn 83968-01-25 21:51 G 32389766.29 32389766.41 32389766.54 0.0263 0.0100

Saturn 83968-04-23 08:24 G 32389854.71 32389854.85 32389854.99 0.0263 0.0004

Mars 83968-07-18 11:32 G 32389940.92 32389940.98 32389941.05 0.1641 0.1355

Saturn 83968-07-20 19:12 G 32389943.17 32389943.30 32389943.42 0.0263 0.0108

Saturn 83968-10-17 05:46 G 32390031.67 32390031.74 32390031.83 0.0263 0.0214

Jupiter 83969-08-29 12:15 G 32390347.89 32390348.01 32390348.13 0.0521 0.0353

Venus 83971-12-02 20:53 G 32391173.28 32391173.37 32391173.45 0.3631 0.2036

Earth 83974-07-30 09:51 G 32392143.83 32392143.91 32392144.00 0.2625 0.1718

Moon 83974-07-30 10:48 G 32392143.86 32392143.95 32392144.04 0.2624 0.1688 *

Jupiter 83975-01-19 12:58 G 32392316.93 32392317.04 32392317.14 0.0508 0.0315

Jupiter 83975-04-18 19:12 G 32392406.21 32392406.30 32392406.40 0.0505 0.0361

Venus 83975-12-01 13:27 G 32392632.96 32392633.06 32392633.16 0.3741 0.2702

Mars 83976-01-03 18:44 G 32392666.18 32392666.28 32392666.39 0.1622 0.0708

Mars 83977-12-08 22:20 G 32393371.33 32393371.43 32393371.53 0.1637 0.0934

Mars 83978-10-20 01:27 G 32393686.46 32393686.56 32393686.66 0.1896 0.1478

Jupiter 83981-06-17 10:48 G 32394657.79 32394657.95 32394658.12 0.0520 0.0125

Saturn 83982-11-26 22:48 G 32395185.29 32395185.45 32395185.61 0.0298 0.0115

Saturn 83983-02-23 22:05 G 32395274.25 32395274.42 32395274.59 0.0298 0.0084

Saturn 83983-05-23 20:53 G 32395363.31 32395363.37 32395363.43 0.0298 0.0278

Earth 83985-01-30 11:32 G 32395980.86 32395980.98 32395981.10 0.2708 0.1429

Moon 83985-01-30 12:44 G 32395980.90 32395981.03 32395981.15 0.2703 0.1201 *

Mars 83985-05-26 06:15 G 32396096.67 32396096.76 32396096.84 0.1619 0.1086

Jupiter 83986-11-07 16:20 G 32396627.15 32396627.18 32396627.21 0.0509 0.0494

Jupiter 83987-02-04 22:34 G 32396716.32 32396716.44 32396716.57 0.0506 0.0181

Mars 83987-05-01 09:22 G 32396801.78 32396801.89 32396802.00 0.1633 0.0522

Earth 83987-08-02 05:03 G 32396894.59 32396894.71 32396894.82 0.2625 0.0412

Moon 83987-08-02 05:17 G 32396894.60 32396894.72 32396894.84 0.2619 0.0308 *

Mars 83988-03-10 20:10 G 32397116.18 32397116.34 32397116.50 0.1902 0.0305

Pluto 83989-06-03 00:29 G 32397565.45 32397565.52 32397565.61 0.0062 0.0055

Pluto 83989-08-30 01:12 G 32397653.45 32397653.55 32397653.69 0.0062 0.0045

Pluto 83989-11-26 02:24 G 32397741.47 32397741.60 32397741.75 0.0062 0.0034

Pluto 83990-02-22 03:22 G 32397829.49 32397829.64 32397829.81 0.0062 0.0024

Pluto 83990-05-21 04:34 G 32397917.52 32397917.69 32397917.85 0.0062 0.0013

Pluto 83990-08-17 05:32 G 32398005.56 32398005.73 32398005.90 0.0062 0.0003

Pluto 83990-11-13 06:29 G 32398093.60 32398093.77 32398093.94 0.0062 0.0008

Pluto 83991-02-09 07:12 G 32398181.64 32398181.80 32398181.97 0.0062 0.0018

Pluto 83991-05-08 08:10 G 32398269.70 32398269.84 32398270.00 0.0062 0.0029

Pluto 83991-08-04 08:53 G 32398357.76 32398357.87 32398358.02 0.0063 0.0040

Uranus 83991-09-02 11:17 G 32398386.90 32398386.97 32398387.05 0.0144 0.0122

Pluto 83991-10-31 10:05 G 32398445.83 32398445.92 32398446.03 0.0063 0.0050

Uranus 83991-11-29 15:22 G 32398475.04 32398475.14 32398475.24 0.0144 0.0099

Pluto 83992-01-27 10:48 G 32398533.93 32398533.95 32398534.01 0.0063 0.0061

Uranus 83992-02-25 19:27 G 32398563.19 32398563.31 32398563.43 0.0144 0.0076

Uranus 83992-05-23 23:32 G 32398651.35 32398651.48 32398651.61 0.0144 0.0053

Uranus 83992-08-20 03:36 G 32398739.52 32398739.65 32398739.79 0.0144 0.0030

Uranus 83992-11-16 07:41 G 32398827.68 32398827.82 32398827.96 0.0144 0.0008

Uranus 83993-02-12 11:46 G 32398915.86 32398915.99 32398916.14 0.0144 0.0018

Jupiter 83993-04-05 09:22 G 32398967.72 32398967.89 32398968.05 0.0519 0.0112

Uranus 83993-05-11 16:05 G 32399004.03 32399004.17 32399004.30 0.0144 0.0040

Uranus 83993-08-07 20:10 G 32399092.22 32399092.34 32399092.47 0.0144 0.0064

Uranus 83993-11-04 00:29 G 32399180.41 32399180.52 32399180.63 0.0144 0.0088

Uranus 83994-01-31 04:48 G 32399268.61 32399268.70 32399268.79 0.0144 0.0112

Uranus 83994-04-29 09:08 G 32399356.83 32399356.88 32399356.92 0.0144 0.0136

Mars 83994-10-16 17:32 G 32399527.19 32399527.23 32399527.28 0.1616 0.1459

Mars 83996-09-20 20:24 G 32400232.23 32400232.35 32400232.47 0.1629 0.0121

Saturn 83997-03-17 14:24 G 32400410.04 32400410.10 32400410.17 0.0263 0.0228

Saturn 83997-06-14 00:44 G 32400498.41 32400498.53 32400498.65 0.0262 0.0127

Mars 83997-07-31 14:24 G 32400545.96 32400546.10 32400546.25 0.1908 0.0914

Saturn 83997-09-10 11:17 G 32400586.83 32400586.97 32400587.11 0.0262 0.0024

Saturn 83997-12-07 21:51 G 32400675.28 32400675.41 32400675.55 0.0262 0.0080

Earth 83998-02-02 13:56 G 32400731.95 32400732.08 32400732.22 0.2708 0.0765

Moon 83998-02-02 14:24 G 32400731.96 32400732.10 32400732.23 0.2702 0.0744 *

Saturn 83998-03-06 08:39 G 32400763.77 32400763.86 32400763.96 0.0262 0.0185

Jupiter 83998-11-24 02:53 G 32401026.48 32401026.62 32401026.75 0.0507 0.0021

Moon 84000-08-04 00:00 G 32401645.39 32401645.50 32401645.62 0.2618 0.0899

Earth 84000-08-04 00:15 G 32401645.40 32401645.51 32401645.62 0.2624 0.0938

85TH MILLENNIUM CE

This is a list of transits of Mercury in the 85th millennium CE.

FROM MAX-TRANSIT TIME C START MAX END SUNRAD DEPTH S

Jupiter 84005-01-22 06:29 G 32403277.65 32403277.77 32403277.90 0.0519 0.0363

Mars 84006-02-11 07:27 G 32403662.70 32403662.81 32403662.93 0.1626 0.0283

Mars 84008-01-17 11:32 G 32404367.92 32404367.98 32404368.04 0.1641 0.1391

Jupiter 84010-09-12 07:12 G 32405336.67 32405336.80 32405336.93 0.0508 0.0146

Saturn 84012-04-14 20:24 G 32405917.22 32405917.35 32405917.50 0.0298 0.0181

Saturn 84012-07-12 20:10 G 32406006.16 32406006.34 32406006.51 0.0298 0.0021

Saturn 84012-10-09 18:58 G 32406095.18 32406095.29 32406095.41 0.0298 0.0216

Moon 84013-08-06 18:44 G 32406396.22 32406396.28 32406396.35 0.2621 0.2222

Earth 84013-08-06 19:41 G 32406396.26 32406396.32 32406396.37 0.2624 0.2315 *

Mars 84015-07-04 18:44 G 32407093.18 32407093.28 32407093.39 0.1622 0.0665

Jupiter 84017-02-08 11:03 G 32407677.84 32407677.96 32407678.08 0.0521 0.0370

Mars 84017-06-08 22:20 G 32407798.34 32407798.43 32407798.53 0.1637 0.0977

Venus 84017-06-09 10:48 G 32407798.86 32407798.95 32407799.04 0.3630 0.1830

Mars 84018-04-20 02:24 G 32408113.51 32408113.60 32408113.68 0.1896 0.1567

Earth 84020-07-30 14:53 G 32408946.02 32408946.12 32408946.22 0.2625 0.1466

Moon 84020-07-30 15:36 G 32408946.05 32408946.15 32408946.25 0.2623 0.1305 *

Jupiter 84022-07-01 11:46 G 32409646.88 32409646.99 32409647.10 0.0508 0.0303

Jupiter 84022-09-28 18:15 G 32409736.17 32409736.26 32409736.35 0.0505 0.0373

Venus 84022-12-24 02:24 G 32409822.50 32409822.60 32409822.71 0.3631 0.0544

Mars 84024-11-24 06:15 G 32410523.67 32410523.76 32410523.85 0.1619 0.1045

Mars 84026-10-30 09:22 G 32411228.77 32411228.89 32411229.00 0.1633 0.0565

Saturn 84026-11-01 02:24 G 32411230.49 32411230.60 32411230.70 0.0262 0.0166

Venus 84026-12-22 08:10 G 32411281.72 32411281.84 32411281.97 0.3742 0.2044

Saturn 84027-01-28 12:44 G 32411318.90 32411319.03 32411319.17 0.0262 0.0065

Saturn 84027-04-26 23:17 G 32411407.34 32411407.47 32411407.61 0.0262 0.0040

Saturn 84027-07-24 10:05 G 32411495.81 32411495.92 32411496.04 0.0262 0.0144

Mars 84027-09-09 21:08 G 32411543.22 32411543.38 32411543.54 0.1902 0.0398

Saturn 84027-10-20 20:53 G 32411584.33 32411584.37 32411584.41 0.0263 0.0250

Venus 84028-07-08 18:15 G 32411846.21 32411846.26 32411846.32 0.3631 0.2951

Jupiter 84028-11-27 09:36 G 32411987.73 32411987.90 32411988.06 0.0521 0.0138

Earth 84031-01-31 17:32 G 32412783.10 32412783.23 32412783.36 0.2708 0.1014

Moon 84031-01-31 18:29 G 32412783.14 32412783.27 32412783.41 0.2703 0.0992 *

Earth 84033-08-02 10:05 G 32413696.80 32413696.92 32413697.03 0.2625 0.0170

Moon 84033-08-02 10:20 G 32413696.81 32413696.93 32413697.05 0.2618 0.0181 *

Uranus 84033-09-20 21:22 G 32413746.33 32413746.39 32413746.49 0.0134 0.0119

Uranus 84033-12-18 03:51 G 32413834.54 32413834.66 32413834.79 0.0134 0.0094

Uranus 84034-03-16 10:05 G 32413922.77 32413922.92 32413923.08 0.0134 0.0070

Mars 84034-04-16 17:32 G 32413954.18 32413954.23 32413954.29 0.1616 0.1418

Jupiter 84034-04-19 16:05 G 32413957.12 32413957.17 32413957.22 0.0509 0.0464

Uranus 84034-06-12 16:05 G 32414011.01 32414011.17 32414011.35 0.0134 0.0046

Jupiter 84034-07-17 22:20 G 32414046.31 32414046.43 32414046.56 0.0506 0.0210

Uranus 84034-09-08 22:20 G 32414099.26 32414099.43 32414099.61 0.0134 0.0022

Uranus 84034-12-06 04:20 G 32414187.51 32414187.68 32414187.86 0.0134 0.0004

Neptune 84035-01-09 10:48 G 32414221.92 32414221.95 32414222.00 0.0088 0.0083

Uranus 84035-03-04 10:20 G 32414275.76 32414275.93 32414276.11 0.0134 0.0026

Neptune 84035-04-07 12:15 G 32414309.95 32414310.01 32414310.09 0.0088 0.0075

Uranus 84035-05-31 16:20 G 32414364.02 32414364.18 32414364.35 0.0134 0.0050

Neptune 84035-07-04 13:56 G 32414398.00 32414398.08 32414398.17 0.0088 0.0068

Uranus 84035-08-27 22:05 G 32414452.28 32414452.42 32414452.58 0.0134 0.0073

Neptune 84035-09-30 15:22 G 32414486.05 32414486.14 32414486.24 0.0088 0.0061

Uranus 84035-11-24 04:05 G 32414540.55 32414540.67 32414540.80 0.0134 0.0096

Neptune 84035-12-27 16:48 G 32414574.10 32414574.20 32414574.32 0.0088 0.0054

Uranus 84036-02-20 10:05 G 32414628.84 32414628.92 32414629.00 0.0134 0.0119

Mars 84036-03-21 20:24 G 32414659.23 32414659.35 32414659.47 0.1629 0.0161

Neptune 84036-03-24 18:15 G 32414662.15 32414662.26 32414662.39 0.0088 0.0046

Neptune 84036-06-20 19:56 G 32414750.21 32414750.33 32414750.46 0.0088 0.0039

Neptune 84036-09-16 21:22 G 32414838.26 32414838.39 32414838.53 0.0088 0.0031

Neptune 84036-12-13 23:03 G 32414926.32 32414926.46 32414926.59 0.0088 0.0024

Mars 84037-01-29 15:08 G 32414972.99 32414973.13 32414973.28 0.1907 0.0823

Neptune 84037-03-12 00:29 G 32415014.38 32415014.52 32415014.66 0.0088 0.0017

Neptune 84037-06-08 01:56 G 32415102.44 32415102.58 32415102.73 0.0088 0.0010

Neptune 84037-09-04 03:36 G 32415190.51 32415190.65 32415190.79 0.0088 0.0002

Neptune 84037-12-01 05:03 G 32415278.57 32415278.71 32415278.85 0.0088 0.0006

Neptune 84038-02-27 06:29 G 32415366.64 32415366.77 32415366.92 0.0088 0.0014

Neptune 84038-05-26 08:10 G 32415454.70 32415454.84 32415454.98 0.0088 0.0021

Neptune 84038-08-22 09:36 G 32415542.77 32415542.90 32415543.04 0.0088 0.0028

Neptune 84038-11-18 11:17 G 32415630.84 32415630.97 32415631.10 0.0088 0.0036

Neptune 84039-02-14 12:44 G 32415718.91 32415719.03 32415719.16 0.0088 0.0043

Neptune 84039-05-13 14:24 G 32415806.99 32415807.10 32415807.22 0.0088 0.0051

Neptune 84039-08-09 15:51 G 32415895.06 32415895.16 32415895.27 0.0088 0.0059

Neptune 84039-11-05 17:32 G 32415983.14 32415983.23 32415983.33 0.0088 0.0066

Neptune 84040-02-01 18:58 G 32416071.23 32416071.29 32416071.38 0.0088 0.0074

Neptune 84040-04-29 20:24 G 32416159.32 32416159.35 32416159.42 0.0088 0.0082

Jupiter 84040-09-15 08:24 G 32416297.68 32416297.85 32416298.02 0.0520 0.0090

Saturn 84041-09-01 15:36 G 32416649.08 32416649.15 32416649.24 0.0298 0.0266

Saturn 84041-11-29 15:36 G 32416737.98 32416738.15 32416738.32 0.0298 0.0064

Saturn 84042-02-26 14:53 G 32416826.96 32416827.12 32416827.27 0.0298 0.0134

Moon 84044-02-03 19:56 G 32417534.20 32417534.33 32417534.45 0.2702 0.1247

Earth 84044-02-03 19:56 G 32417534.20 32417534.33 32417534.45 0.2708 0.1165 *

Mars 84045-08-12 07:27 G 32418089.70 32418089.81 32418089.93 0.1625 0.0242

Jupiter 84046-05-06 01:41 G 32418356.44 32418356.57 32418356.71 0.0507 0.0033

Moon 84046-08-05 05:03 G 32418447.60 32418447.71 32418447.81 0.2619 0.1218

Earth 84046-08-05 05:17 G 32418447.61 32418447.72 32418447.82 0.2624 0.1209 *

Mars 84047-07-18 11:32 G 32418794.93 32418794.98 32418795.04 0.1641 0.1436

Jupiter 84052-07-04 06:29 G 32420607.64 32420607.77 32420607.91 0.0519 0.0324

Earth 84053-07-29 00:58 G 32420997.51 32420997.54 32420997.57 0.2625 0.2498

Moon 84053-07-29 01:56 G 32420997.53 32420997.58 32420997.62 0.2626 0.2373 *

Mars 84055-01-02 18:44 G 32421520.17 32421520.28 32421520.39 0.1622 0.0627

Saturn 84056-03-20 05:03 G 32421962.63 32421962.71 32421962.81 0.0262 0.0195

Saturn 84056-06-16 15:36 G 32422051.02 32422051.15 32422051.28 0.0262 0.0093

Saturn 84056-09-13 02:10 G 32422139.45 32422139.59 32422139.73 0.0262 0.0010

Mars 84056-12-07 22:20 G 32422225.34 32422225.43 32422225.52 0.1636 0.1012

Saturn 84056-12-10 12:44 G 32422227.91 32422228.03 32422228.16 0.0262 0.0115

Saturn 84057-03-08 23:32 G 32422316.41 32422316.48 32422316.56 0.0262 0.0220

Mars 84057-10-19 02:53 G 32422540.54 32422540.62 32422540.70 0.1896 0.1638

Jupiter 84058-02-22 06:00 G 32422666.62 32422666.75 32422666.88 0.0508 0.0139

Moon 84059-08-07 23:46 G 32423198.46 32423198.49 32423198.53 0.2621 0.2471

Earth 84059-08-08 00:44 G 32423198.51 32423198.53 32423198.54 0.2624 0.2592 *

Mars 84064-05-25 06:15 G 32424950.67 32424950.76 32424950.85 0.1619 0.1004

Jupiter 84064-07-21 10:20 G 32425007.83 32425007.93 32425008.04 0.0521 0.0397

Mars 84066-04-30 09:08 G 32425655.77 32425655.88 32425655.99 0.1633 0.0604

Earth 84066-07-31 19:56 G 32425748.22 32425748.33 32425748.43 0.2625 0.1205

Moon 84066-07-31 20:39 G 32425748.25 32425748.36 32425748.46 0.2622 0.1180 *

Mars 84067-03-10 22:05 G 32425970.26 32425970.42 32425970.58 0.1902 0.0499

Venus 84068-06-30 16:34 G 32426448.15 32426448.19 32426448.23 0.3630 0.3278

Jupiter 84069-12-11 10:20 G 32426976.83 32426976.93 32426977.04 0.0509 0.0297

Jupiter 84070-03-10 16:48 G 32427066.12 32427066.20 32427066.29 0.0506 0.0381

Saturn 84071-04-18 13:27 G 32427469.91 32427470.06 32427470.23 0.0299 0.0127

Saturn 84071-07-16 12:58 G 32427558.87 32427559.04 32427559.21 0.0299 0.0072

Saturn 84071-10-13 11:46 G 32427647.92 32427647.99 32427648.07 0.0299 0.0267

Mars 84073-10-15 17:32 G 32428381.17 32428381.23 32428381.29 0.1616 0.1377

Venus 84074-01-14 08:10 G 32428471.74 32428471.84 32428471.94 0.3630 0.0954

Uranus 84075-06-26 14:53 G 32429000.09 32429000.12 32429000.18 0.0144 0.0137

Mars 84075-09-20 20:24 G 32429086.23 32429086.35 32429086.47 0.1629 0.0201

Uranus 84075-09-22 19:12 G 32429088.22 32429088.30 32429088.39 0.0144 0.0113

Uranus 84075-12-19 23:17 G 32429176.36 32429176.47 32429176.58 0.0144 0.0091

Uranus 84076-03-17 03:22 G 32429264.52 32429264.64 32429264.76 0.0144 0.0068

Jupiter 84076-05-09 08:39 G 32429317.70 32429317.86 32429318.02 0.0520 0.0160

Uranus 84076-06-13 07:27 G 32429352.67 32429352.81 32429352.94 0.0144 0.0045

Mars 84076-07-30 16:05 G 32429400.01 32429400.17 32429400.32 0.1908 0.0733

Uranus 84076-09-09 11:32 G 32429440.84 32429440.98 32429441.11 0.0144 0.0022

Uranus 84076-12-06 15:36 G 32429529.01 32429529.15 32429529.29 0.0144 0.0003

Earth 84077-01-31 23:32 G 32429585.34 32429585.48 32429585.62 0.2708 0.0599

Moon 84077-02-01 00:29 G 32429585.38 32429585.52 32429585.66 0.2703 0.0397 *

Uranus 84077-03-04 19:41 G 32429617.18 32429617.32 32429617.46 0.0144 0.0026

Uranus 84077-05-31 23:46 G 32429705.36 32429705.49 32429705.63 0.0144 0.0049

Uranus 84077-08-28 03:51 G 32429793.55 32429793.66 32429793.79 0.0144 0.0073

Uranus 84077-11-24 08:10 G 32429881.74 32429881.84 32429881.95 0.0144 0.0097

Uranus 84078-02-20 12:29 G 32429969.95 32429970.02 32429970.10 0.0144 0.0121

Venus 84079-07-31 00:00 G 32430495.40 32430495.50 32430495.60 0.3631 0.1423

Earth 84079-08-03 15:08 G 32430499.01 32430499.13 32430499.24 0.2625 0.0152

Moon 84079-08-03 15:22 G 32430499.02 32430499.14 32430499.26 0.2618 0.0236 *

Pluto 84081-01-12 19:27 G 32431027.25 32431027.31 32431027.40 0.0082 0.0070

Pluto 84081-04-10 21:08 G 32431115.27 32431115.38 32431115.50 0.0082 0.0049

Pluto 84081-07-07 22:34 G 32431203.31 32431203.44 32431203.58 0.0082 0.0028

Jupiter 84081-09-29 14:53 G 32431287.07 32431287.12 32431287.18 0.0509 0.0454

Pluto 84081-10-04 00:00 G 32431291.36 32431291.50 32431291.65 0.0081 0.0008

Jupiter 84081-12-27 21:22 G 32431376.27 32431376.39 32431376.51 0.0506 0.0222

Pluto 84081-12-31 01:27 G 32431379.42 32431379.56 32431379.71 0.0081 0.0013

Pluto 84082-03-29 02:53 G 32431467.49 32431467.62 32431467.76 0.0081 0.0033

Pluto 84082-06-25 04:20 G 32431555.58 32431555.68 32431555.80 0.0081 0.0053

Pluto 84082-09-21 05:32 G 32431643.69 32431643.73 32431643.81 0.0081 0.0074

Venus 84083-07-29 09:36 G 32431954.76 32431954.90 32431955.05 0.3742 0.0387

Mars 84085-02-10 07:27 G 32432516.69 32432516.81 32432516.93 0.1625 0.0198

Saturn 84085-08-07 06:44 G 32432694.73 32432694.78 32432694.85 0.0262 0.0233

Saturn 84085-11-03 17:17 G 32432783.10 32432783.22 32432783.34 0.0262 0.0132

Saturn 84086-01-31 03:51 G 32432871.52 32432871.66 32432871.79 0.0262 0.0031

Saturn 84086-04-29 14:24 G 32432959.96 32432960.10 32432960.23 0.0262 0.0074

Saturn 84086-07-27 00:58 G 32433048.44 32433048.54 32433048.64 0.0262 0.0179

Mars 84087-01-16 11:32 G 32433221.93 32433221.98 32433222.03 0.1641 0.1476

Jupiter 84088-02-26 06:58 G 32433627.62 32433627.79 32433627.96 0.0520 0.0076

Moon 84090-02-04 01:41 G 32434336.45 32434336.57 32434336.69 0.2701 0.1447

Earth 84090-02-04 01:56 G 32434336.46 32434336.58 32434336.69 0.2708 0.1571 *

Moon 84092-08-05 09:51 G 32435249.81 32435249.91 32435250.01 0.2619 0.1353

Earth 84092-08-05 10:20 G 32435249.83 32435249.93 32435250.03 0.2624 0.1478 *

Jupiter 84093-10-16 01:27 G 32435686.43 32435686.56 32435686.70 0.0507 0.0062

Mars 84094-07-03 18:44 G 32435947.17 32435947.28 32435947.39 0.1622 0.0583

Mars 84096-06-07 22:20 G 32436652.34 32436652.43 32436652.52 0.1637 0.1056

Mars 84097-04-19 03:51 G 32436967.59 32436967.66 32436967.72 0.1896 0.1733

Earth 84099-07-30 06:00 G 32437799.69 32437799.75 32437799.81 0.2625 0.2241

Moon 84099-07-30 06:44 G 32437799.72 32437799.78 32437799.85 0.2626 0.2164 *

Jupiter 84099-12-15 05:32 G 32437937.59 32437937.73 32437937.88 0.0519 0.0302

Saturn 84100-09-05 08:24 G 32438201.73 32438201.85 32438201.98 0.0298 0.0215

Saturn 84100-12-03 08:10 G 32438290.66 32438290.84 32438291.02 0.0298 0.0014

Saturn 84101-03-02 07:12 G 32438379.67 32438379.80 32438379.94 0.0298 0.0183

Mars 84103-11-25 06:00 G 32439377.66 32439377.75 32439377.85 0.1619 0.0967

Jupiter 84105-08-05 04:48 G 32439996.58 32439996.70 32439996.83 0.0508 0.0125

Mars 84105-10-30 09:22 G 32440082.78 32440082.89 32440082.99 0.1633 0.0646

Mars 84106-09-09 22:20 G 32440397.28 32440397.43 32440397.59 0.1902 0.0564

Earth 84110-01-31 02:53 G 32441636.56 32441636.62 32441636.68 0.2708 0.2426

Moon 84110-01-31 04:20 G 32441636.60 32441636.68 32441636.75 0.2705 0.2253 *

Jupiter 84112-01-02 10:20 G 32442337.85 32442337.93 32442338.03 0.0521 0.0437

Earth 84112-08-02 00:58 G 32442550.43 32442550.54 32442550.65 0.2625 0.0946

Moon 84112-08-02 01:27 G 32442550.45 32442550.56 32442550.67 0.2620 0.0836 *

Mars 84113-04-16 17:32 G 32442808.17 32442808.23 32442808.29 0.1616 0.1338

Saturn 84114-12-26 09:36 G 32443426.89 32443426.90 32443426.91 0.0263 0.0261

Mars 84115-03-22 20:10 G 32443513.23 32443513.34 32443513.46 0.1629 0.0241

Saturn 84115-03-24 19:56 G 32443515.22 32443515.33 32443515.44 0.0262 0.0161

Saturn 84115-06-21 06:15 G 32443603.63 32443603.76 32443603.90 0.0262 0.0060

Saturn 84115-09-17 16:48 G 32443692.07 32443692.20 32443692.34 0.0262 0.0046

Saturn 84115-12-15 03:36 G 32443780.54 32443780.65 32443780.77 0.0262 0.0149

Mars 84116-01-30 16:48 G 32443827.05 32443827.20 32443827.36 0.1908 0.0640

Saturn 84116-03-12 14:24 G 32443869.08 32443869.10 32443869.13 0.0262 0.0255

Jupiter 84117-05-24 09:08 G 32444306.77 32444306.88 32444306.99 0.0508 0.0289

Uranus 84117-07-15 23:32 G 32444359.46 32444359.48 32444359.51 0.0134 0.0132

Jupiter 84117-08-21 15:36 G 32444396.06 32444396.15 32444396.23 0.0506 0.0389

Uranus 84117-10-12 05:32 G 32444447.64 32444447.73 32444447.85 0.0134 0.0108

Uranus 84118-01-08 12:00 G 32444535.86 32444536.00 32444536.14 0.0134 0.0083

Neptune 84118-01-09 00:15 G 32444536.46 32444536.51 32444536.59 0.0090 0.0084

Uranus 84118-04-06 18:15 G 32444624.10 32444624.26 32444624.42 0.0134 0.0059

Neptune 84118-04-07 03:08 G 32444624.55 32444624.63 32444624.75 0.0090 0.0074

Uranus 84118-07-04 00:15 G 32444712.34 32444712.51 32444712.69 0.0134 0.0035

Neptune 84118-07-04 06:44 G 32444712.65 32444712.78 32444712.91 0.0090 0.0063 *

Uranus 84118-09-30 06:29 G 32444800.59 32444800.77 32444800.95 0.0134 0.0011

Neptune 84118-09-30 09:36 G 32444800.76 32444800.90 32444801.05 0.0090 0.0053 *

Uranus 84118-12-27 12:29 G 32444888.85 32444889.02 32444889.20 0.0134 0.0013

Neptune 84118-12-27 12:44 G 32444888.88 32444889.03 32444889.19 0.0090 0.0043 *

Neptune 84119-03-25 15:36 G 32444977.00 32444977.15 32444977.33 0.0090 0.0033

Uranus 84119-03-25 18:29 G 32444977.10 32444977.27 32444977.44 0.0134 0.0037 *

Neptune 84119-06-21 18:44 G 32445065.12 32445065.28 32445065.46 0.0090 0.0023

Uranus 84119-06-22 00:29 G 32445065.36 32445065.52 32445065.68 0.0134 0.0060 *

Neptune 84119-09-17 21:51 G 32445153.24 32445153.41 32445153.59 0.0090 0.0013

Uranus 84119-09-18 06:15 G 32445153.63 32445153.76 32445153.91 0.0134 0.0084

Neptune 84119-12-15 00:58 G 32445241.36 32445241.54 32445241.72 0.0090 0.0002

Uranus 84119-12-15 12:15 G 32445241.91 32445242.01 32445242.12 0.0134 0.0107

Neptune 84120-03-12 04:05 G 32445329.49 32445329.67 32445329.84 0.0090 0.0008

Uranus 84120-03-12 18:00 G 32445330.22 32445330.25 32445330.30 0.0134 0.0130

Neptune 84120-06-08 06:58 G 32445417.62 32445417.79 32445417.96 0.0090 0.0018

Neptune 84120-09-04 09:51 G 32445505.75 32445505.91 32445506.08 0.0090 0.0028

Neptune 84120-12-01 12:44 G 32445593.88 32445594.03 32445594.20 0.0090 0.0038

Neptune 84121-02-27 15:36 G 32445682.01 32445682.15 32445682.31 0.0090 0.0048

Neptune 84121-05-26 18:29 G 32445770.15 32445770.27 32445770.42 0.0090 0.0058

Neptune 84121-08-22 21:22 G 32445858.29 32445858.39 32445858.52 0.0090 0.0068

Neptune 84121-11-19 00:15 G 32445946.44 32445946.51 32445946.61 0.0090 0.0078

Neptune 84122-02-15 03:22 G 32446034.61 32446034.64 32446034.68 0.0090 0.0087

Earth 84123-02-03 05:32 G 32446387.59 32446387.73 32446387.87 0.2708 0.0189

Moon 84123-02-03 06:15 G 32446387.62 32446387.76 32446387.90 0.2703 0.0169 *

Jupiter 84123-10-21 07:56 G 32446647.68 32446647.83 32446648.00 0.0520 0.0189

Mars 84124-08-12 07:27 G 32446943.69 32446943.81 32446943.93 0.1626 0.0156

Venus 84125-02-05 13:56 G 32447121.01 32447121.08 32447121.16 0.3630 0.2411

Mars 84125-06-21 10:34 G 32447256.92 32447256.94 32447256.96 0.1912 0.1894

Moon 84125-08-04 20:10 G 32447301.22 32447301.34 32447301.46 0.2618 0.0344

Earth 84125-08-04 20:10 G 32447301.22 32447301.34 32447301.45 0.2625 0.0401 *

Mars 84126-07-18 11:32 G 32447648.93 32447648.98 32447649.02 0.1641 0.1513

Jupiter 84129-03-12 13:27 G 32448617.01 32448617.06 32448617.13 0.0509 0.0449

Jupiter 84129-06-09 19:56 G 32448706.21 32448706.33 32448706.45 0.0507 0.0228

Saturn 84130-01-23 06:29 G 32448933.71 32448933.77 32448933.83 0.0299 0.0279

Saturn 84130-04-22 06:15 G 32449022.59 32449022.76 32449022.93 0.0299 0.0076

Saturn 84130-07-20 05:32 G 32449111.58 32449111.73 32449111.89 0.0299 0.0123

Venus 84130-08-22 05:46 G 32449144.63 32449144.74 32449144.84 0.3630 0.0115

Mars 84134-01-02 18:44 G 32450374.17 32450374.28 32450374.39 0.1622 0.0544

Jupiter 84135-08-09 06:00 G 32450957.58 32450957.75 32450957.93 0.0519 0.0052

Mars 84135-12-08 22:20 G 32451079.34 32451079.43 32451079.52 0.1637 0.1097

Moon 84136-02-06 07:27 G 32451138.72 32451138.81 32451138.91 0.2701 0.2032

Earth 84136-02-06 07:41 G 32451138.73 32451138.82 32451138.92 0.2708 0.1977 *

Venus 84136-03-06 21:36 G 32451168.32 32451168.40 32451168.48 0.3631 0.2330

Mars 84136-10-19 04:20 G 32451394.64 32451394.68 32451394.73 0.1896 0.1811

Moon 84138-08-07 14:39 G 32452052.03 32452052.11 32452052.20 0.2619 0.1747

Earth 84138-08-07 15:22 G 32452052.05 32452052.14 32452052.23 0.2624 0.1750 *

Venus 84140-03-05 11:03 G 32452627.86 32452627.96 32452628.06 0.3741 0.2779

Jupiter 84141-03-29 00:15 G 32453016.38 32453016.51 32453016.65 0.0507 0.0072

Mars 84143-05-26 06:00 G 32453804.66 32453804.75 32453804.85 0.1619 0.0924

Saturn 84144-08-10 21:36 G 32454247.32 32454247.40 32454247.49 0.0262 0.0198

Saturn 84144-11-07 07:56 G 32454335.71 32454335.83 32454335.96 0.0262 0.0098

Saturn 84145-02-03 18:29 G 32454424.14 32454424.27 32454424.41 0.0262 0.0010

Mars 84145-04-30 09:08 G 32454509.78 32454509.88 32454509.99 0.1633 0.0685

Saturn 84145-05-03 05:03 G 32454512.59 32454512.71 32454512.84 0.0262 0.0110

Saturn 84145-07-30 15:51 G 32454601.09 32454601.16 32454601.24 0.0262 0.0215

Earth 84145-07-31 11:03 G 32454601.88 32454601.96 32454602.03 0.2625 0.1988

Moon 84145-07-31 11:46 G 32454601.91 32454601.99 32454602.07 0.2625 0.1895 *

Mars 84146-03-10 23:17 G 32454824.32 32454824.47 32454824.63 0.1902 0.0664

Jupiter 84147-05-28 04:05 G 32455267.53 32455267.67 32455267.82 0.0519 0.0290

Mars 84152-10-15 17:32 G 32457235.16 32457235.23 32457235.30 0.1616 0.1298

Jupiter 84153-01-15 04:48 G 32457326.57 32457326.70 32457326.83 0.0508 0.0093

Mars 84154-09-20 20:24 G 32457940.23 32457940.35 32457940.46 0.1629 0.0285

Mars 84155-07-31 17:32 G 32458254.07 32458254.23 32458254.39 0.1907 0.0552

Earth 84156-02-01 08:53 G 32458438.78 32458438.87 32458438.97 0.2708 0.2007

Moon 84156-02-01 10:20 G 32458438.82 32458438.93 32458439.03 0.2705 0.1839 *

Earth 84158-08-03 06:00 G 32459352.63 32459352.75 32459352.86 0.2625 0.0680

Moon 84158-08-03 06:29 G 32459352.66 32459352.77 32459352.89 0.2619 0.0636 *

Jupiter 84159-03-16 02:39 G 32459577.61 32459577.61 32459577.63 0.0518 0.0518

Jupiter 84159-06-14 09:22 G 32459667.82 32459667.89 32459667.98 0.0521 0.0458

Uranus 84159-07-17 22:48 G 32459701.40 32459701.45 32459701.52 0.0144 0.0128

Saturn 84159-09-09 01:12 G 32459754.41 32459754.55 32459754.70 0.0298 0.0164

Uranus 84159-10-14 02:53 G 32459789.53 32459789.62 32459789.72 0.0144 0.0105

Saturn 84159-12-07 00:58 G 32459843.36 32459843.54 32459843.71 0.0298 0.0037

Uranus 84160-01-10 06:58 G 32459877.68 32459877.79 32459877.91 0.0144 0.0082

Saturn 84160-03-04 23:46 G 32459932.39 32459932.49 32459932.60 0.0298 0.0233

Uranus 84160-04-07 11:03 G 32459965.84 32459965.96 32459966.09 0.0144 0.0059

Uranus 84160-07-04 15:08 G 32460054.00 32460054.13 32460054.27 0.0144 0.0036

Uranus 84160-09-30 19:12 G 32460142.16 32460142.30 32460142.44 0.0144 0.0013

Uranus 84160-12-27 23:17 G 32460230.33 32460230.47 32460230.61 0.0144 0.0012

Uranus 84161-03-26 03:36 G 32460318.51 32460318.65 32460318.78 0.0144 0.0035

Uranus 84161-06-22 07:41 G 32460406.69 32460406.82 32460406.95 0.0144 0.0058

Uranus 84161-09-18 11:46 G 32460494.88 32460494.99 32460495.11 0.0144 0.0082

Uranus 84161-12-15 15:51 G 32460583.08 32460583.16 32460583.27 0.0144 0.0106

Uranus 84162-03-13 20:10 G 32460671.29 32460671.34 32460671.41 0.0144 0.0130

Mars 84164-02-11 07:27 G 32461370.69 32461370.81 32461370.93 0.1625 0.0120

Jupiter 84164-11-03 08:10 G 32461636.73 32461636.84 32461636.95 0.0508 0.0274

Mars 84164-12-20 11:03 G 32461683.91 32461683.96 32461684.00 0.1913 0.1820

Jupiter 84165-01-31 14:39 G 32461726.03 32461726.11 32461726.19 0.0506 0.0403

Mars 84166-01-16 11:32 G 32462075.95 32462075.98 32462076.01 0.1641 0.1556

Earth 84169-02-03 11:32 G 32463189.84 32463189.98 32463190.12 0.2708 0.0232

Moon 84169-02-03 12:00 G 32463189.86 32463190.00 32463190.14 0.2702 0.0308 *

Jupiter 84171-04-02 08:10 G 32463977.68 32463977.84 32463977.99 0.0520 0.0227

Moon 84171-08-06 00:58 G 32464103.43 32464103.54 32464103.66 0.2618 0.0699

Earth 84171-08-06 01:12 G 32464103.43 32464103.55 32464103.66 0.2625 0.0662 *

Mars 84173-07-03 18:44 G 32464801.16 32464801.28 32464801.39 0.1622 0.0510

Saturn 84173-12-29 00:15 G 32464979.45 32464979.51 32464979.58 0.0263 0.0228

Saturn 84174-03-27 10:48 G 32465067.83 32465067.95 32465068.07 0.0262 0.0126

Saturn 84174-06-23 21:08 G 32465156.25 32465156.38 32465156.52 0.0262 0.0025

Saturn 84174-09-20 07:41 G 32465244.69 32465244.82 32465244.96 0.0262 0.0081

Saturn 84174-12-17 18:29 G 32465333.18 32465333.27 32465333.37 0.0262 0.0185

Mars 84175-06-08 22:20 G 32465506.34 32465506.43 32465506.51 0.1636 0.1133

Mars 84176-04-19 05:03 G 32465821.70 32465821.71 32465821.72 0.1896 0.1891

Jupiter 84176-08-22 12:15 G 32465946.95 32465947.01 32465947.08 0.0509 0.0441

Jupiter 84176-11-19 18:44 G 32466036.16 32466036.28 32466036.39 0.0506 0.0236

Venus 84181-09-12 11:32 G 32467793.88 32467793.98 32467794.07 0.3630 0.1537

Moon 84182-02-06 13:27 G 32467940.98 32467941.06 32467941.14 0.2702 0.2243

Earth 84182-02-06 13:41 G 32467941.01 32467941.07 32467941.14 0.2708 0.2374 *

Mars 84182-11-24 06:00 G 32468231.65 32468231.75 32468231.85 0.1619 0.0884

Jupiter 84183-01-19 05:32 G 32468287.56 32468287.73 32468287.90 0.0519 0.0024

Moon 84184-08-07 19:41 G 32468854.24 32468854.32 32468854.41 0.2619 0.1876

Earth 84184-08-07 20:24 G 32468854.27 32468854.35 32468854.42 0.2624 0.2025 *

Mars 84184-10-29 09:08 G 32468936.78 32468936.88 32468936.99 0.1633 0.0723

Mars 84185-09-09 00:15 G 32469251.36 32469251.51 32469251.66 0.1902 0.0754

Venus 84187-03-29 03:08 G 32469817.53 32469817.63 32469817.73 0.3631 0.0815

Jupiter 84188-09-07 23:03 G 32470346.32 32470346.46 32470346.59 0.0507 0.0076

Saturn 84189-01-25 23:32 G 32470486.37 32470486.48 32470486.61 0.0299 0.0224

Saturn 84189-04-24 23:32 G 32470575.30 32470575.48 32470575.65 0.0299 0.0022

Saturn 84189-07-22 22:34 G 32470664.31 32470664.44 32470664.59 0.0299 0.0176

Venus 84191-03-27 05:46 G 32471276.62 32471276.74 32471276.86 0.3742 0.2024

Earth 84191-08-01 15:51 G 32471404.08 32471404.16 32471404.25 0.2625 0.1736

Moon 84191-08-01 16:48 G 32471404.10 32471404.20 32471404.29 0.2623 0.1611 *

Mars 84192-04-15 17:32 G 32471662.15 32471662.23 32471662.30 0.1616 0.1259

Venus 84192-10-11 18:58 G 32471841.24 32471841.29 32471841.34 0.3631 0.3225

Mars 84194-03-21 20:10 G 32472367.23 32472367.34 32472367.46 0.1629 0.0325

Jupiter 84194-11-07 03:22 G 32472597.49 32472597.64 32472597.79 0.0519 0.0267

Mars 84195-01-29 18:15 G 32472681.10 32472681.26 32472681.42 0.1908 0.0464

Neptune 84199-10-07 09:36 G 32474392.86 32474392.90 32474392.97 0.0088 0.0081

Neptune 84200-01-03 11:03 G 32474480.90 32474480.96 32474481.05 0.0088 0.0074

Neptune 84200-04-01 12:58 G 32474568.95 32474569.04 32474569.13 0.0088 0.0066

Jupiter 84200-06-28 03:22 G 32474656.51 32474656.64 32474656.77 0.0508 0.0085

Neptune 84200-06-28 14:10 G 32474657.00 32474657.09 32474657.20 0.0088 0.0059

Neptune 84200-09-24 15:36 G 32474745.05 32474745.15 32474745.27 0.0088 0.0052

Neptune 84200-12-21 17:03 G 32474833.10 32474833.21 32474833.34 0.0088 0.0045

Neptune 84201-03-19 18:44 G 32474921.16 32474921.28 32474921.41 0.0088 0.0037

Neptune 84201-06-15 20:10 G 32475009.22 32475009.34 32475009.48 0.0088 0.0030

Uranus 84201-08-06 07:41 G 32475060.75 32475060.82 32475060.90 0.0134 0.0121

Neptune 84201-09-11 21:51 G 32475097.28 32475097.41 32475097.55 0.0088 0.0022

Uranus 84201-11-02 13:56 G 32475148.97 32475149.08 32475149.21 0.0134 0.0097

Neptune 84201-12-08 23:17 G 32475185.34 32475185.47 32475185.61 0.0088 0.0015

Uranus 84202-01-29 20:10 G 32475237.20 32475237.34 32475237.50 0.0134 0.0072

Earth 84202-02-02 14:53 G 32475241.01 32475241.12 32475241.24 0.2708 0.1585

Moon 84202-02-02 16:05 G 32475241.05 32475241.17 32475241.29 0.2705 0.1470 *

Neptune 84202-03-07 00:58 G 32475273.40 32475273.54 32475273.68 0.0088 0.0007

Uranus 84202-04-28 02:24 G 32475325.44 32475325.60 32475325.77 0.0134 0.0048

Neptune 84202-06-03 02:24 G 32475361.46 32475361.60 32475361.74 0.0088 0.0002

Uranus 84202-07-25 08:39 G 32475413.68 32475413.86 32475414.04 0.0134 0.0024

Neptune 84202-08-30 04:05 G 32475449.53 32475449.67 32475449.81 0.0088 0.0008

Uranus 84202-10-21 14:39 G 32475501.93 32475502.11 32475502.29 0.0134 0.0003

Neptune 84202-11-26 05:32 G 32475537.59 32475537.73 32475537.87 0.0088 0.0015

Uranus 84203-01-17 20:53 G 32475590.19 32475590.37 32475590.54 0.0134 0.0024

Neptune 84203-02-22 06:58 G 32475625.66 32475625.79 32475625.93 0.0088 0.0023

Uranus 84203-04-16 02:39 G 32475678.45 32475678.61 32475678.78 0.0134 0.0048

Saturn 84203-05-19 02:24 G 32475711.60 32475711.60 32475711.61 0.0262 0.0262

Neptune 84203-05-21 08:24 G 32475713.73 32475713.85 32475713.99 0.0088 0.0031

Uranus 84203-07-13 08:24 G 32475766.72 32475766.85 32475767.01 0.0134 0.0072

Mars 84203-08-13 07:27 G 32475797.69 32475797.81 32475797.93 0.1625 0.0078

Saturn 84203-08-15 12:44 G 32475799.93 32475800.03 32475800.14 0.0262 0.0162

Neptune 84203-08-17 10:05 G 32475801.80 32475801.92 32475802.05 0.0088 0.0038

Uranus 84203-10-09 14:24 G 32475854.99 32475855.10 32475855.24 0.0134 0.0095

Saturn 84203-11-11 23:17 G 32475888.33 32475888.47 32475888.60 0.0262 0.0060

Neptune 84203-11-13 11:32 G 32475889.87 32475889.98 32475890.11 0.0088 0.0046

Uranus 84204-01-05 20:24 G 32475943.28 32475943.35 32475943.44 0.0134 0.0118

Saturn 84204-02-08 09:36 G 32475976.77 32475976.90 32475977.04 0.0262 0.0044

Neptune 84204-02-09 13:12 G 32475977.94 32475978.05 32475978.17 0.0088 0.0053

Saturn 84204-05-06 20:24 G 32476065.24 32476065.35 32476065.46 0.0262 0.0148

Neptune 84204-05-07 14:39 G 32476066.02 32476066.11 32476066.23 0.0088 0.0061

Mars 84204-06-21 12:00 G 32476110.93 32476111.00 32476111.07 0.1913 0.1713

Saturn 84204-08-03 07:12 G 32476153.77 32476153.80 32476153.83 0.0262 0.0253

Neptune 84204-08-03 16:34 G 32476154.10 32476154.19 32476154.28 0.0088 0.0068

Earth 84204-08-04 11:03 G 32476154.84 32476154.96 32476155.07 0.2625 0.0424

Moon 84204-08-04 11:32 G 32476154.86 32476154.98 32476155.10 0.2619 0.0346 *

Neptune 84204-10-30 18:00 G 32476242.19 32476242.25 32476242.33 0.0088 0.0076

Neptune 84205-01-26 19:27 G 32476330.28 32476330.31 32476330.36 0.0088 0.0084

Mars 84205-07-18 11:32 G 32476502.96 32476502.98 32476503.00 0.1641 0.1596

Jupiter 84206-08-27 01:12 G 32476907.52 32476907.55 32476907.58 0.0518 0.0508

Jupiter 84206-11-25 07:41 G 32476997.75 32476997.82 32476997.90 0.0521 0.0467

Jupiter 84212-04-16 07:41 G 32478966.71 32478966.82 32478966.94 0.0508 0.0247

Jupiter 84212-07-14 14:10 G 32479056.03 32479056.09 32479056.16 0.0505 0.0432

Mars 84213-01-02 18:44 G 32479228.16 32479228.28 32479228.39 0.1622 0.0467

Mars 84214-12-08 22:20 G 32479933.35 32479933.43 32479933.51 0.1636 0.1175

Earth 84215-02-05 17:32 G 32479992.09 32479992.23 32479992.37 0.2708 0.0634

Moon 84215-02-05 17:46 G 32479992.10 32479992.24 32479992.38 0.2701 0.0652 *

Moon 84217-08-07 06:00 G 32480905.63 32480905.75 32480905.86 0.2618 0.0873

Earth 84217-08-07 06:15 G 32480905.64 32480905.76 32480905.87 0.2625 0.0934 *

Saturn 84218-09-12 18:44 G 32481307.11 32481307.28 32481307.44 0.0298 0.0107

Jupiter 84218-09-13 06:44 G 32481307.63 32481307.78 32481307.94 0.0520 0.0244

Saturn 84218-12-10 18:00 G 32481396.09 32481396.25 32481396.42 0.0298 0.0092

Saturn 84219-03-09 17:03 G 32481485.16 32481485.21 32481485.25 0.0298 0.0287

Mars 84222-05-26 06:00 G 32482658.65 32482658.75 32482658.85 0.1619 0.0847

Jupiter 84224-02-03 11:17 G 32483276.90 32483276.97 32483277.04 0.0509 0.0427

Mars 84224-04-30 09:08 G 32483363.78 32483363.88 32483363.99 0.1633 0.0763

Jupiter 84224-05-02 17:32 G 32483366.11 32483366.23 32483366.35 0.0506 0.0248

Moon 84224-07-31 02:39 G 32483455.61 32483455.61 32483455.62 0.2629 0.2622

Mars 84225-03-11 00:44 G 32483678.38 32483678.53 32483678.67 0.1902 0.0824

Jupiter 84230-07-02 05:17 G 32485617.55 32485617.72 32485617.89 0.0520 0.0011

Moon 84230-08-10 00:44 G 32485656.48 32485656.53 32485656.59 0.2620 0.2282

Earth 84230-08-10 01:27 G 32485656.51 32485656.56 32485656.62 0.2624 0.2303 *

Mars 84231-10-16 17:17 G 32486089.15 32486089.22 32486089.30 0.1616 0.1219

Venus 84232-10-04 17:17 G 32486443.16 32486443.22 32486443.28 0.3630 0.2988

Saturn 84233-01-01 15:22 G 32486532.05 32486532.14 32486532.24 0.0263 0.0191

Saturn 84233-03-31 01:56 G 32486620.45 32486620.58 32486620.71 0.0262 0.0089

Saturn 84233-06-27 12:29 G 32486708.88 32486709.02 32486709.15 0.0262 0.0015

Mars 84233-09-20 20:10 G 32486794.23 32486794.34 32486794.46 0.1629 0.0357

Saturn 84233-09-23 23:03 G 32486797.34 32486797.46 32486797.58 0.0262 0.0118

Saturn 84233-12-21 09:51 G 32486885.84 32486885.91 32486885.98 0.0262 0.0223

Mars 84234-07-31 19:12 G 32487108.14 32487108.30 32487108.46 0.1908 0.0369

Jupiter 84236-02-19 21:36 G 32487676.26 32487676.40 32487676.53 0.0507 0.0080

Earth 84237-08-02 20:53 G 32488206.28 32488206.37 32488206.47 0.2625 0.1476

Moon 84237-08-02 21:36 G 32488206.31 32488206.40 32488206.50 0.2622 0.1440 *

Pluto 84237-09-27 05:46 G 32488261.70 32488261.74 32488261.83 0.0062 0.0057

Pluto 84237-12-24 07:12 G 32488349.69 32488349.80 32488349.91 0.0062 0.0046

Pluto 84238-03-22 07:56 G 32488437.70 32488437.83 32488437.98 0.0062 0.0036

Venus 84238-04-20 08:53 G 32488466.77 32488466.87 32488466.97 0.3630 0.0673

Pluto 84238-06-18 09:08 G 32488525.73 32488525.88 32488526.04 0.0062 0.0025

Pluto 84238-09-14 09:51 G 32488613.76 32488613.91 32488614.09 0.0062 0.0016

Pluto 84238-12-11 11:03 G 32488701.79 32488701.96 32488702.13 0.0062 0.0005

Pluto 84239-03-09 12:00 G 32488789.83 32488790.00 32488790.17 0.0062 0.0006

Pluto 84239-06-05 12:58 G 32488877.88 32488878.04 32488878.21 0.0062 0.0016

Pluto 84239-09-01 13:41 G 32488965.93 32488966.07 32488966.24 0.0062 0.0027

Pluto 84239-11-28 14:39 G 32489053.99 32489054.11 32489054.26 0.0062 0.0038

Pluto 84240-02-24 15:22 G 32489142.06 32489142.14 32489142.27 0.0063 0.0049

Pluto 84240-05-22 16:34 G 32489230.15 32489230.19 32489230.26 0.0063 0.0059

Mars 84241-03-08 04:48 G 32489519.68 32489519.70 32489519.72 0.1613 0.1585

Jupiter 84242-04-20 02:24 G 32489927.45 32489927.60 32489927.76 0.0519 0.0242

Mars 84243-02-11 07:27 G 32490224.69 32490224.81 32490224.92 0.1625 0.0064

Uranus 84243-05-12 03:08 G 32490314.60 32490314.63 32490314.67 0.0144 0.0139

Uranus 84243-08-08 07:12 G 32490402.72 32490402.80 32490402.88 0.0144 0.0116

Venus 84243-11-04 00:44 G 32490490.43 32490490.53 32490490.62 0.3631 0.1709

Uranus 84243-11-04 11:17 G 32490490.87 32490490.97 32490491.08 0.0144 0.0094

Mars 84243-12-21 12:44 G 32490537.95 32490538.03 32490538.12 0.1913 0.1621

Uranus 84244-01-31 15:22 G 32490579.02 32490579.14 32490579.26 0.0144 0.0071

Uranus 84244-04-28 19:27 G 32490667.18 32490667.31 32490667.44 0.0144 0.0048

Uranus 84244-07-25 23:32 G 32490755.34 32490755.48 32490755.61 0.0144 0.0025

Uranus 84244-10-22 03:36 G 32490843.51 32490843.65 32490843.79 0.0144 0.0002

Mars 84245-01-16 11:32 G 32490929.97 32490929.98 32490929.98 0.1640 0.1632

Uranus 84245-01-18 07:41 G 32490931.68 32490931.82 32490931.96 0.0144 0.0022

Uranus 84245-04-16 11:46 G 32491019.86 32491019.99 32491020.13 0.0144 0.0046

Uranus 84245-07-13 15:51 G 32491108.05 32491108.16 32491108.29 0.0144 0.0070

Uranus 84245-10-09 20:10 G 32491196.24 32491196.34 32491196.45 0.0144 0.0094

Uranus 84246-01-06 00:29 G 32491284.44 32491284.52 32491284.60 0.0144 0.0118

Uranus 84246-04-04 04:48 G 32491372.68 32491372.70 32491372.72 0.0144 0.0142

Venus 84247-11-02 06:58 G 32491949.65 32491949.79 32491949.94 0.3742 0.0381

Jupiter 84247-12-09 01:56 G 32491986.44 32491986.58 32491986.71 0.0508 0.0084

Saturn 84248-01-30 17:32 G 32492039.09 32492039.23 32492039.38 0.0299 0.0163

Earth 84248-02-03 21:08 G 32492043.25 32492043.38 32492043.51 0.2708 0.1156

Moon 84248-02-03 22:05 G 32492043.28 32492043.42 32492043.55 0.2703 0.0979 *

Saturn 84248-04-28 17:17 G 32492128.04 32492128.22 32492128.39 0.0299 0.0038

Saturn 84248-07-26 16:05 G 32492217.07 32492217.17 32492217.29 0.0299 0.0235

Earth 84250-08-05 16:05 G 32492957.05 32492957.17 32492957.28 0.2625 0.0173

Moon 84250-08-05 16:20 G 32492957.06 32492957.18 32492957.30 0.2619 0.0113 *

Mars 84252-07-03 18:44 G 32493655.16 32493655.28 32493655.39 0.1622 0.0429

Jupiter 84254-02-06 00:00 G 32494237.45 32494237.50 32494237.56 0.0518 0.0488

Jupiter 84254-05-07 06:44 G 32494327.72 32494327.78 32494327.84 0.0521 0.0484

Mars 84254-06-08 22:20 G 32494360.35 32494360.43 32494360.51 0.1637 0.1216

Jupiter 84259-09-27 06:15 G 32496296.65 32496296.76 32496296.88 0.0509 0.0242

Jupiter 84259-12-25 12:44 G 32496385.97 32496386.03 32496386.10 0.0506 0.0437

Earth 84261-02-05 23:32 G 32496794.35 32496794.48 32496794.61 0.2708 0.1047

Moon 84261-02-05 23:46 G 32496794.36 32496794.49 32496794.62 0.2701 0.1053 *

Mars 84261-11-24 06:00 G 32497085.65 32497085.75 32497085.85 0.1619 0.0805

Saturn 84262-05-21 17:46 G 32497264.18 32497264.24 32497264.31 0.0262 0.0223

Saturn 84262-08-18 04:05 G 32497352.55 32497352.67 32497352.80 0.0262 0.0122

Saturn 84262-11-14 14:39 G 32497440.97 32497441.11 32497441.25 0.0262 0.0020

Saturn 84263-02-11 01:12 G 32497529.42 32497529.55 32497529.68 0.0262 0.0084

Saturn 84263-05-10 11:46 G 32497617.90 32497617.99 32497618.09 0.0262 0.0189

Moon 84263-08-08 10:48 G 32497707.84 32497707.95 32497708.06 0.2618 0.1168

Earth 84263-08-08 11:03 G 32497707.86 32497707.96 32497708.07 0.2624 0.1199 *

Mars 84263-10-30 09:08 G 32497790.78 32497790.88 32497790.99 0.1633 0.0803

Mars 84264-09-09 01:27 G 32498105.42 32498105.56 32498105.71 0.1902 0.0916

Jupiter 84266-02-23 04:48 G 32498637.55 32498637.70 32498637.85 0.0520 0.0247

Earth 84270-08-01 06:58 G 32500257.76 32500257.79 32500257.82 0.2625 0.2510

Moon 84270-08-01 07:41 G 32500257.79 32500257.82 32500257.86 0.2627 0.2493 *

Mars 84271-04-16 17:17 G 32500516.14 32500516.22 32500516.30 0.1616 0.1180

Jupiter 84271-07-16 10:48 G 32500606.87 32500606.95 32500607.03 0.0509 0.0403

Jupiter 84271-10-13 17:03 G 32500696.10 32500696.21 32500696.32 0.0506 0.0273

Mars 84273-03-21 20:10 G 32501221.23 32501221.34 32501221.46 0.1629 0.0399

Mars 84274-01-29 19:56 G 32501535.17 32501535.33 32501535.49 0.1908 0.0289

Moon 84276-08-10 05:46 G 32502458.70 32502458.74 32502458.78 0.2622 0.2442

Earth 84276-08-10 06:29 G 32502458.75 32502458.77 32502458.79 0.2624 0.2580 *

Saturn 84277-06-18 13:12 G 32502770.96 32502771.05 32502771.16 0.0298 0.0244

Saturn 84277-09-15 13:12 G 32502859.87 32502860.05 32502860.22 0.0298 0.0042

Jupiter 84277-12-12 03:36 G 32502947.48 32502947.65 32502947.83 0.0520 0.0024

Saturn 84277-12-13 12:29 G 32502948.87 32502949.02 32502949.17 0.0298 0.0157

Mars 84280-09-06 04:48 G 32503946.67 32503946.70 32503946.73 0.1613 0.1548

Mars 84282-08-12 07:27 G 32504651.69 32504651.81 32504651.92 0.1625 0.0062

Neptune 84282-10-06 21:36 G 32504707.34 32504707.40 32504707.48 0.0090 0.0082

Neptune 84283-01-03 00:44 G 32504795.44 32504795.53 32504795.65 0.0090 0.0072

Neptune 84283-04-01 03:51 G 32504883.54 32504883.66 32504883.80 0.0090 0.0062

Mars 84283-06-21 13:27 G 32504964.96 32504965.06 32504965.16 0.1913 0.1539

Neptune 84283-06-28 07:12 G 32504971.65 32504971.80 32504971.95 0.0090 0.0051

Jupiter 84283-08-01 20:24 G 32505006.22 32505006.35 32505006.48 0.0507 0.0090

Earth 84283-08-04 01:56 G 32505008.48 32505008.58 32505008.69 0.2625 0.1218

Moon 84283-08-04 02:39 G 32505008.50 32505008.61 32505008.72 0.2621 0.1063 *

Neptune 84283-09-24 10:05 G 32505059.77 32505059.92 32505060.09 0.0090 0.0041

Neptune 84283-12-21 13:12 G 32505147.89 32505148.05 32505148.22 0.0090 0.0031

Neptune 84284-03-18 16:20 G 32505236.01 32505236.18 32505236.36 0.0090 0.0021

Neptune 84284-06-14 19:12 G 32505324.13 32505324.30 32505324.49 0.0090 0.0011

Neptune 84284-09-10 22:20 G 32505412.26 32505412.43 32505412.61 0.0090 0.0002

Neptune 84284-12-08 01:27 G 32505500.38 32505500.56 32505500.74 0.0090 0.0010

Neptune 84285-03-06 04:20 G 32505588.51 32505588.68 32505588.86 0.0090 0.0020

Neptune 84285-06-02 07:12 G 32505676.64 32505676.80 32505676.98 0.0090 0.0030

Uranus 84285-08-26 15:51 G 32505762.07 32505762.16 32505762.28 0.0134 0.0110

Neptune 84285-08-29 10:05 G 32505764.77 32505764.92 32505765.09 0.0090 0.0040

Uranus 84285-11-22 22:20 G 32505850.30 32505850.43 32505850.57 0.0134 0.0085

Neptune 84285-11-25 12:58 G 32505852.91 32505853.04 32505853.20 0.0090 0.0050

Uranus 84286-02-19 04:34 G 32505938.53 32505938.69 32505938.85 0.0134 0.0061

Neptune 84286-02-21 15:51 G 32505941.05 32505941.16 32505941.31 0.0090 0.0060

Uranus 84286-05-18 10:34 G 32506026.78 32506026.94 32506027.12 0.0134 0.0037

Neptune 84286-05-20 18:44 G 32506029.19 32506029.28 32506029.41 0.0090 0.0070

Uranus 84286-08-14 16:48 G 32506115.03 32506115.20 32506115.38 0.0134 0.0013

Neptune 84286-08-16 21:51 G 32506117.34 32506117.41 32506117.50 0.0090 0.0079

Uranus 84286-11-10 23:03 G 32506203.28 32506203.46 32506203.64 0.0134 0.0012

Neptune 84286-11-13 00:44 G 32506205.52 32506205.53 32506205.56 0.0090 0.0089

Uranus 84287-02-07 05:03 G 32506291.54 32506291.71 32506291.88 0.0134 0.0035

Uranus 84287-05-06 11:03 G 32506379.80 32506379.96 32506380.12 0.0134 0.0059

Uranus 84287-08-02 16:48 G 32506468.07 32506468.20 32506468.35 0.0134 0.0083

Uranus 84287-10-29 22:48 G 32506556.35 32506556.45 32506556.56 0.0134 0.0106

Uranus 84288-01-26 04:34 G 32506644.66 32506644.69 32506644.74 0.0134 0.0129

Venus 84289-05-11 14:39 G 32507116.03 32507116.11 32507116.19 0.3630 0.2134

Jupiter 84289-09-30 01:56 G 32507257.42 32507257.58 32507257.74 0.0519 0.0214

Saturn 84291-10-08 20:39 G 32507996.32 32507996.36 32507996.39 0.0263 0.0252

Mars 84292-01-02 18:29 G 32508082.16 32508082.27 32508082.39 0.1622 0.0388

Saturn 84292-01-05 06:44 G 32508084.68 32508084.78 32508084.90 0.0263 0.0152

Saturn 84292-04-02 17:17 G 32508173.09 32508173.22 32508173.36 0.0263 0.0049

Saturn 84292-06-30 03:51 G 32508261.53 32508261.66 32508261.80 0.0263 0.0055

Saturn 84292-09-26 14:39 G 32508350.00 32508350.11 32508350.22 0.0262 0.0160

Mars 84293-12-07 22:20 G 32508787.35 32508787.43 32508787.50 0.1636 0.1253

Earth 84294-02-04 03:08 G 32508845.49 32508845.63 32508845.77 0.2708 0.0735

Moon 84294-02-04 03:51 G 32508845.52 32508845.66 32508845.80 0.2702 0.0733 *

Venus 84294-11-25 06:15 G 32509139.66 32509139.76 32509139.87 0.3630 0.0231

Jupiter 84295-05-21 00:15 G 32509316.38 32509316.51 32509316.65 0.0508 0.0082

Moon 84296-08-05 21:08 G 32509759.26 32509759.38 32509759.50 0.2619 0.0112

Earth 84296-08-05 20:53 G 32509759.26 32509759.37 32509759.49 0.2625 0.0140 *

Venus 84300-06-10 22:05 G 32511163.35 32511163.42 32511163.49 0.3630 0.2592

Mars 84301-05-26 06:00 G 32511512.64 32511512.75 32511512.85 0.1619 0.0765

Jupiter 84301-07-19 23:03 G 32511567.39 32511567.46 32511567.53 0.0518 0.0469

Jupiter 84301-10-18 05:32 G 32511657.69 32511657.73 32511657.77 0.0521 0.0503

Mars 84303-05-01 09:08 G 32512217.78 32512217.88 32512217.98 0.1633 0.0842

Mars 84304-03-11 02:24 G 32512532.47 32512532.60 32512532.74 0.1902 0.1013

Venus 84304-06-09 08:24 G 32512622.75 32512622.85 32512622.95 0.3742 0.2775

Saturn 84306-11-06 12:44 G 32513503.02 32513503.03 32513503.06 0.0299 0.0296

Saturn 84307-02-03 12:44 G 32513591.87 32513592.03 32513592.20 0.0299 0.0092

Earth 84307-02-08 05:32 G 32513596.61 32513596.73 32513596.85 0.2708 0.1460

Moon 84307-02-08 05:32 G 32513596.62 32513596.73 32513596.85 0.2702 0.1496 *

Jupiter 84307-03-10 04:34 G 32513626.58 32513626.69 32513626.81 0.0509 0.0243

Saturn 84307-05-03 12:15 G 32513680.85 32513681.01 32513681.17 0.0299 0.0108

Jupiter 84307-06-07 11:03 G 32513715.90 32513715.96 32513716.03 0.0506 0.0436

Moon 84309-08-09 15:51 G 32514510.06 32514510.16 32514510.26 0.2618 0.1422

Earth 84309-08-09 16:05 G 32514510.08 32514510.17 32514510.27 0.2624 0.1470 *

Mars 84310-10-16 17:17 G 32514943.14 32514943.22 32514943.30 0.1616 0.1140

Mars 84312-09-20 20:10 G 32515648.23 32515648.34 32515648.46 0.1629 0.0440

Mars 84313-07-31 20:39 G 32515962.20 32515962.36 32515962.52 0.1908 0.0196

Jupiter 84313-08-06 03:22 G 32515967.50 32515967.64 32515967.79 0.0520 0.0261

Earth 84316-08-02 12:00 G 32517059.94 32517060.00 32517060.06 0.2625 0.2259

Moon 84316-08-02 12:44 G 32517059.96 32517060.03 32517060.10 0.2625 0.2106 *

Jupiter 84318-12-27 09:08 G 32517936.80 32517936.88 32517936.96 0.0509 0.0403

Jupiter 84319-03-26 15:22 G 32518026.03 32518026.14 32518026.25 0.0506 0.0274

Mars 84320-03-08 04:48 G 32518373.66 32518373.70 32518373.74 0.1613 0.1506

Saturn 84321-05-25 09:36 G 32518816.80 32518816.90 32518817.00 0.0262 0.0180

Saturn 84321-08-21 19:56 G 32518905.20 32518905.33 32518905.46 0.0262 0.0079

Saturn 84321-11-18 06:29 G 32518993.63 32518993.77 32518993.91 0.0262 0.0025

Mars 84322-02-11 07:12 G 32519078.68 32519078.80 32519078.92 0.1625 0.0055

Saturn 84322-02-14 17:03 G 32519082.09 32519082.21 32519082.33 0.0262 0.0129

Saturn 84322-05-14 03:51 G 32519170.61 32519170.66 32519170.72 0.0262 0.0235

Mars 84322-12-21 14:24 G 32519391.99 32519392.10 32519392.20 0.1913 0.1443

Jupiter 84325-05-25 01:12 G 32520277.38 32520277.55 32520277.73 0.0519 0.0023

Earth 84327-02-03 06:15 G 32520896.72 32520896.76 32520896.80 0.2708 0.2588

Moon 84327-02-03 07:41 G 32520896.77 32520896.82 32520896.87 0.2706 0.2521 *

Uranus 84327-06-02 10:34 G 32521015.90 32521015.94 32521016.01 0.0144 0.0132

Uranus 84327-08-29 14:39 G 32521104.03 32521104.11 32521104.21 0.0144 0.0109

Uranus 84327-11-25 18:58 G 32521192.18 32521192.29 32521192.40 0.0144 0.0085

Uranus 84328-02-21 22:48 G 32521280.33 32521280.45 32521280.58 0.0144 0.0063

Uranus 84328-05-20 02:53 G 32521368.49 32521368.62 32521368.76 0.0144 0.0040

Uranus 84328-08-16 07:12 G 32521456.66 32521456.80 32521456.93 0.0144 0.0017

Uranus 84328-11-12 11:17 G 32521544.83 32521544.97 32521545.11 0.0144 0.0008

Uranus 84329-02-08 15:22 G 32521633.00 32521633.14 32521633.28 0.0144 0.0031

Uranus 84329-05-07 19:27 G 32521721.18 32521721.31 32521721.44 0.0144 0.0055

Pluto 84329-05-10 01:41 G 32521723.53 32521723.57 32521723.64 0.0082 0.0076

Uranus 84329-08-03 23:46 G 32521809.37 32521809.49 32521809.61 0.0144 0.0078

Earth 84329-08-05 06:58 G 32521810.68 32521810.79 32521810.90 0.2625 0.0954

Moon 84329-08-05 07:41 G 32521810.71 32521810.82 32521810.93 0.2621 0.0934 *

Pluto 84329-08-06 03:36 G 32521811.54 32521811.65 32521811.75 0.0082 0.0055

Uranus 84329-10-31 03:51 G 32521897.57 32521897.66 32521897.76 0.0144 0.0102

Pluto 84329-11-02 04:48 G 32521899.58 32521899.70 32521899.84 0.0082 0.0035

Uranus 84330-01-27 08:10 G 32521985.78 32521985.84 32521985.91 0.0144 0.0126

Pluto 84330-01-29 06:15 G 32521987.62 32521987.76 32521987.91 0.0082 0.0015

Pluto 84330-04-27 07:56 G 32522075.68 32522075.83 32522075.98 0.0081 0.0006

Pluto 84330-07-24 09:22 G 32522163.75 32522163.89 32522164.03 0.0081 0.0027

Pluto 84330-10-20 10:34 G 32522251.83 32522251.94 32522252.07 0.0081 0.0047

Jupiter 84331-01-12 19:41 G 32522336.19 32522336.32 32522336.45 0.0507 0.0110

Pluto 84331-01-16 12:00 G 32522339.93 32522340.00 32522340.09 0.0081 0.0067

Mars 84331-07-04 18:29 G 32522509.16 32522509.27 32522509.39 0.1622 0.0348

Mars 84333-06-08 22:20 G 32523214.36 32523214.43 32523214.50 0.1636 0.1295

Saturn 84336-06-22 09:08 G 32524323.74 32524323.88 32524324.03 0.0298 0.0168

Saturn 84336-09-19 08:39 G 32524412.69 32524412.86 32524413.04 0.0298 0.0034

Saturn 84336-12-17 07:56 G 32524501.72 32524501.83 32524501.94 0.0298 0.0230

Jupiter 84337-03-12 23:46 G 32524587.34 32524587.49 32524587.65 0.0519 0.0212

Earth 84340-02-06 09:08 G 32525647.74 32525647.88 32525648.02 0.2708 0.0320

Moon 84340-02-06 09:51 G 32525647.77 32525647.91 32525648.05 0.2701 0.0137 *

Venus 84340-06-02 20:24 G 32525765.34 32525765.35 32525765.37 0.3629 0.3571

Mars 84340-11-24 05:46 G 32525939.64 32525939.74 32525939.85 0.1619 0.0730

Moon 84342-08-08 02:10 G 32526561.47 32526561.59 32526561.70 0.2618 0.0448

Earth 84342-08-08 01:56 G 32526561.47 32526561.58 32526561.70 0.2625 0.0382 *

Mars 84342-10-30 09:08 G 32526644.78 32526644.88 32526644.98 0.1632 0.0881

Jupiter 84342-10-31 23:03 G 32526646.33 32526646.46 32526646.59 0.0507 0.0072

Mars 84343-09-10 02:53 G 32526959.49 32526959.62 32526959.75 0.1902 0.1074

Venus 84345-12-17 12:00 G 32527788.91 32527789.00 32527789.10 0.3630 0.1268

Jupiter 84348-12-29 21:51 G 32528897.33 32528897.41 32528897.50 0.0518 0.0450

Mars 84350-04-16 17:17 G 32529370.13 32529370.22 32529370.30 0.1616 0.1101

Saturn 84350-10-12 12:15 G 32529548.94 32529549.01 32529549.10 0.0263 0.0209

Saturn 84351-01-08 22:48 G 32529637.33 32529637.45 32529637.58 0.0263 0.0107

Saturn 84351-04-07 09:22 G 32529725.75 32529725.89 32529726.03 0.0263 0.0005

Venus 84351-07-03 03:51 G 32529812.56 32529812.66 32529812.76 0.3630 0.1095

Saturn 84351-07-04 19:56 G 32529814.20 32529814.33 32529814.46 0.0263 0.0101

Saturn 84351-10-01 06:29 G 32529902.70 32529902.77 32529902.86 0.0263 0.0207

Mars 84352-03-21 20:10 G 32530075.22 32530075.34 32530075.45 0.1629 0.0475

Mars 84353-01-29 21:36 G 32530389.23 32530389.40 32530389.56 0.1908 0.0109

Moon 84353-02-08 11:17 G 32530398.86 32530398.97 32530399.08 0.2702 0.1763

Earth 84353-02-08 11:32 G 32530398.88 32530398.98 32530399.08 0.2708 0.1866 *

Jupiter 84354-08-20 02:53 G 32530956.51 32530956.62 32530956.74 0.0508 0.0243

Jupiter 84354-11-17 09:22 G 32531045.83 32531045.89 32531045.96 0.0505 0.0435

Venus 84355-07-01 03:08 G 32531271.50 32531271.63 32531271.75 0.3742 0.2068

Moon 84355-08-10 20:53 G 32531312.27 32531312.37 32531312.46 0.2619 0.1658

Earth 84355-08-10 21:08 G 32531312.30 32531312.38 32531312.47 0.2624 0.1741 *

Venus 84357-01-15 19:41 G 32531836.29 32531836.32 32531836.34 0.3630 0.3492

Mars 84359-09-07 04:48 G 32532800.65 32532800.70 32532800.74 0.1613 0.1467

Jupiter 84361-01-16 01:56 G 32533297.44 32533297.58 32533297.73 0.0520 0.0273

Mars 84361-08-12 07:12 G 32533505.68 32533505.80 32533505.92 0.1625 0.0093

Mars 84362-06-21 15:08 G 32533819.02 32533819.13 32533819.25 0.1913 0.1345

Earth 84362-08-03 17:03 G 32533862.14 32533862.21 32533862.28 0.2625 0.2001

Moon 84362-08-03 17:46 G 32533862.17 32533862.24 32533862.32 0.2624 0.1954 *

Neptune 84364-04-08 07:12 G 32534475.79 32534475.80 32534475.84 0.0088 0.0086

Neptune 84364-07-05 08:39 G 32534563.81 32534563.86 32534563.93 0.0088 0.0079

Neptune 84364-10-01 10:05 G 32534651.86 32534651.92 32534652.01 0.0088 0.0072

Neptune 84364-12-28 11:46 G 32534739.90 32534739.99 32534740.09 0.0088 0.0064

Neptune 84365-03-26 13:12 G 32534827.95 32534828.05 32534828.16 0.0088 0.0057

Neptune 84365-06-22 14:39 G 32534916.00 32534916.11 32534916.23 0.0088 0.0050

Neptune 84365-09-18 16:20 G 32535004.06 32535004.18 32535004.30 0.0088 0.0042

Saturn 84365-11-09 09:22 G 32535055.77 32535055.89 32535056.02 0.0299 0.0213

Neptune 84365-12-15 17:46 G 32535092.12 32535092.24 32535092.37 0.0088 0.0035

Saturn 84366-02-06 09:08 G 32535144.71 32535144.88 32535145.06 0.0299 0.0012

Neptune 84366-03-13 19:12 G 32535180.17 32535180.30 32535180.44 0.0088 0.0028

Saturn 84366-05-06 08:24 G 32535233.72 32535233.85 32535233.99 0.0299 0.0187

Jupiter 84366-06-08 07:12 G 32535266.72 32535266.80 32535266.88 0.0509 0.0407

Neptune 84366-06-09 20:53 G 32535268.23 32535268.37 32535268.51 0.0088 0.0020

Jupiter 84366-09-05 13:27 G 32535355.95 32535356.06 32535356.17 0.0506 0.0269

Neptune 84366-09-05 22:20 G 32535356.29 32535356.43 32535356.57 0.0088 0.0013

Neptune 84366-12-03 00:00 G 32535444.36 32535444.50 32535444.64 0.0088 0.0006

Neptune 84367-03-01 01:27 G 32535532.42 32535532.56 32535532.70 0.0088 0.0002

Neptune 84367-05-28 02:53 G 32535620.48 32535620.62 32535620.76 0.0088 0.0010

Neptune 84367-08-24 04:20 G 32535708.55 32535708.68 32535708.83 0.0088 0.0018

Neptune 84367-11-20 06:00 G 32535796.62 32535796.75 32535796.89 0.0088 0.0025

Neptune 84368-02-16 07:27 G 32535884.69 32535884.81 32535884.95 0.0088 0.0033

Neptune 84368-05-14 09:08 G 32535972.76 32535972.88 32535973.01 0.0088 0.0040

Neptune 84368-08-10 10:34 G 32536060.83 32536060.94 32536061.07 0.0088 0.0048

Neptune 84368-11-06 12:15 G 32536148.90 32536149.01 32536149.12 0.0088 0.0055

Neptune 84369-02-02 13:41 G 32536236.98 32536237.07 32536237.18 0.0088 0.0063

Neptune 84369-05-01 15:08 G 32536325.06 32536325.13 32536325.23 0.0088 0.0071

Uranus 84369-06-20 17:46 G 32536375.18 32536375.24 32536375.32 0.0134 0.0124

Neptune 84369-07-28 16:48 G 32536413.15 32536413.20 32536413.27 0.0088 0.0078

Uranus 84369-09-17 00:00 G 32536463.39 32536463.50 32536463.63 0.0134 0.0099

Neptune 84369-10-24 18:15 G 32536501.25 32536501.26 32536501.30 0.0088 0.0086

Uranus 84369-12-14 06:15 G 32536551.62 32536551.76 32536551.92 0.0134 0.0075

Uranus 84370-03-12 12:44 G 32536639.87 32536640.03 32536640.20 0.0134 0.0050

Uranus 84370-06-08 18:58 G 32536728.11 32536728.29 32536728.47 0.0134 0.0026

Uranus 84370-09-05 00:58 G 32536816.36 32536816.54 32536816.72 0.0134 0.0003

Uranus 84370-12-02 06:58 G 32536904.62 32536904.79 32536904.97 0.0134 0.0023

Mars 84371-01-02 18:29 G 32536936.15 32536936.27 32536936.39 0.1622 0.0307

Uranus 84371-02-28 13:12 G 32536992.88 32536993.05 32536993.22 0.0134 0.0046

Uranus 84371-05-27 18:58 G 32537081.15 32537081.29 32537081.45 0.0134 0.0070

Uranus 84371-08-24 00:44 G 32537169.42 32537169.53 32537169.67 0.0134 0.0094

Uranus 84371-11-20 06:44 G 32537257.71 32537257.78 32537257.88 0.0134 0.0117

Jupiter 84372-11-03 23:32 G 32537607.31 32537607.48 32537607.66 0.0519 0.0029

Mars 84372-12-07 22:20 G 32537641.36 32537641.43 32537641.49 0.1636 0.1335

Earth 84373-02-03 12:29 G 32537698.93 32537699.02 32537699.10 0.2708 0.2160

Moon 84373-02-03 13:27 G 32537698.97 32537699.06 32537699.16 0.2704 0.1945 *

Earth 84375-08-06 12:00 G 32538612.88 32538613.00 32538613.11 0.2625 0.0701

Moon 84375-08-06 12:29 G 32538612.90 32538613.02 32538613.14 0.2621 0.0563 *

Jupiter 84378-06-24 17:46 G 32539666.11 32539666.24 32539666.37 0.0507 0.0106

Saturn 84380-02-29 15:22 G 32540281.09 32540281.14 32540281.21 0.0263 0.0235

Mars 84380-05-25 05:46 G 32540366.64 32540366.74 32540366.85 0.1619 0.0688

Saturn 84380-05-28 01:41 G 32540369.46 32540369.57 32540369.70 0.0263 0.0134

Saturn 84380-08-24 12:15 G 32540457.88 32540458.01 32540458.15 0.0262 0.0031

Saturn 84380-11-20 22:48 G 32540546.32 32540546.45 32540546.59 0.0262 0.0074

Saturn 84381-02-17 09:36 G 32540634.80 32540634.90 32540635.00 0.0262 0.0178

Mars 84382-04-30 09:08 G 32541071.78 32541071.88 32541071.98 0.1632 0.0921

Mars 84383-03-11 03:51 G 32541386.53 32541386.66 32541386.79 0.1902 0.1169

Jupiter 84384-08-22 21:08 G 32541917.22 32541917.38 32541917.54 0.0519 0.0221

Earth 84386-02-06 15:08 G 32542449.99 32542450.13 32542450.27 0.2708 0.0099

Moon 84386-02-06 15:51 G 32542450.01 32542450.16 32542450.30 0.2702 0.0088 *

Moon 84388-08-08 06:58 G 32543363.68 32543363.79 32543363.91 0.2618 0.0578

Earth 84388-08-08 06:58 G 32543363.68 32543363.79 32543363.91 0.2625 0.0645 *

Mars 84389-10-15 17:17 G 32543797.13 32543797.22 32543797.30 0.1616 0.1064

Jupiter 84390-04-12 22:05 G 32543976.28 32543976.42 32543976.55 0.0508 0.0060

Mars 84391-09-20 20:10 G 32544502.23 32544502.34 32544502.45 0.1629 0.0518

Mars 84392-07-30 22:05 G 32544816.26 32544816.42 32544816.59 0.1908 0.0036

Saturn 84395-03-29 06:29 G 32545787.72 32545787.77 32545787.83 0.0298 0.0282

Saturn 84395-06-26 06:29 G 32545876.60 32545876.77 32545876.94 0.0298 0.0079

Saturn 84395-09-23 05:46 G 32545965.58 32545965.74 32545965.90 0.0298 0.0120

Jupiter 84396-06-10 19:27 G 32546227.23 32546227.31 32546227.39 0.0518 0.0455

Jupiter 84396-09-09 02:10 G 32546317.59 32546317.59 32546317.60 0.0521 0.0521

Venus 84397-01-07 18:00 G 32546438.18 32546438.25 32546438.31 0.3629 0.2710

Moon 84399-02-09 16:48 G 32547201.13 32547201.20 32547201.28 0.2702 0.2282

Earth 84399-02-09 17:32 G 32547201.15 32547201.23 32547201.30 0.2708 0.2267 *

Mars 84399-03-08 04:34 G 32547227.64 32547227.69 32547227.74 0.1613 0.1432

Mars 84401-02-10 07:12 G 32547932.68 32547932.80 32547932.92 0.1625 0.0118

Moon 84401-08-11 01:41 G 32548114.49 32548114.57 32548114.65 0.2620 0.1983

Earth 84401-08-11 02:24 G 32548114.52 32548114.60 32548114.67 0.2624 0.2017 *

Mars 84401-12-20 15:36 G 32548246.03 32548246.15 32548246.28 0.1913 0.1272

Jupiter 84402-01-30 01:27 G 32548286.45 32548286.56 32548286.68 0.0508 0.0238

Jupiter 84402-04-29 07:56 G 32548375.77 32548375.83 32548375.90 0.0505 0.0439

Venus 84402-07-24 09:36 G 32548461.79 32548461.90 32548462.00 0.3630 0.0390

Venus 84408-02-07 01:12 G 32550485.47 32550485.55 32550485.64 0.3630 0.1989

Jupiter 84408-06-28 00:29 G 32550627.38 32550627.52 32550627.67 0.0520 0.0286

Earth 84408-08-03 22:05 G 32550664.33 32550664.42 32550664.50 0.2625 0.1746

Moon 84408-08-03 22:48 G 32550664.36 32550664.45 32550664.54 0.2624 0.1602 *

Saturn 84409-07-18 18:29 G 32551013.26 32551013.27 32551013.27 0.0263 0.0263

Saturn 84409-10-15 04:48 G 32551101.59 32551101.70 32551101.80 0.0263 0.0161

Saturn 84410-01-11 15:08 G 32551190.00 32551190.13 32551190.27 0.0263 0.0059

Saturn 84410-04-10 01:41 G 32551278.44 32551278.57 32551278.71 0.0263 0.0045

Mars 84410-07-03 18:29 G 32551363.15 32551363.27 32551363.38 0.1622 0.0271

Saturn 84410-07-07 12:15 G 32551366.90 32551367.01 32551367.13 0.0263 0.0151

Saturn 84410-10-03 23:03 G 32551455.44 32551455.46 32551455.49 0.0263 0.0257

Uranus 84411-06-22 18:15 G 32551717.20 32551717.26 32551717.34 0.0144 0.0124

Uranus 84411-09-18 22:20 G 32551805.34 32551805.43 32551805.53 0.0144 0.0101

Uranus 84411-12-16 02:24 G 32551893.49 32551893.60 32551893.72 0.0144 0.0078

Venus 84412-02-05 04:34 G 32551944.54 32551944.69 32551944.84 0.3742 0.0407

Uranus 84412-03-13 06:29 G 32551981.64 32551981.77 32551981.90 0.0144 0.0055

Mars 84412-06-07 22:05 G 32552068.36 32552068.42 32552068.49 0.1636 0.1371

Uranus 84412-06-09 10:34 G 32552069.81 32552069.94 32552070.08 0.0144 0.0031

Uranus 84412-09-05 14:39 G 32552157.97 32552158.11 32552158.25 0.0144 0.0008

Uranus 84412-12-02 18:44 G 32552246.14 32552246.28 32552246.42 0.0144 0.0016

Uranus 84413-02-28 22:48 G 32552334.32 32552334.45 32552334.59 0.0144 0.0040

Uranus 84413-05-28 03:08 G 32552422.51 32552422.63 32552422.76 0.0144 0.0063

Uranus 84413-08-24 07:27 G 32552510.70 32552510.81 32552510.92 0.0144 0.0087

Jupiter 84413-11-18 05:32 G 32552596.66 32552596.73 32552596.81 0.0509 0.0408

Uranus 84413-11-20 11:32 G 32552598.89 32552598.98 32552599.07 0.0144 0.0111

Jupiter 84414-02-15 11:46 G 32552685.88 32552685.99 32552686.10 0.0506 0.0266

Uranus 84414-02-16 15:51 G 32552687.11 32552687.16 32552687.21 0.0144 0.0135

Earth 84419-02-04 18:29 G 32554501.16 32554501.27 32554501.38 0.2708 0.1726

Moon 84419-02-04 19:41 G 32554501.20 32554501.32 32554501.43 0.2703 0.1640 *

Mars 84419-11-24 05:46 G 32554793.63 32554793.74 32554793.85 0.1619 0.0649

Jupiter 84420-04-15 21:51 G 32554937.23 32554937.41 32554937.58 0.0519 0.0035

Earth 84421-08-06 17:03 G 32555415.09 32555415.21 32555415.32 0.2625 0.0437

Moon 84421-08-06 17:17 G 32555415.11 32555415.22 32555415.34 0.2619 0.0442 *

Mars 84421-10-29 09:08 G 32555498.78 32555498.88 32555498.97 0.1633 0.0960

Mars 84422-09-09 04:34 G 32555813.57 32555813.69 32555813.81 0.1902 0.1258

Saturn 84424-11-12 07:12 G 32556608.64 32556608.80 32556608.96 0.0299 0.0121

Saturn 84425-02-09 06:44 G 32556697.61 32556697.78 32556697.95 0.0299 0.0079

Saturn 84425-05-09 05:46 G 32556786.67 32556786.74 32556786.80 0.0299 0.0275

Jupiter 84425-12-04 15:51 G 32556996.03 32556996.16 32556996.29 0.0507 0.0099

Mars 84429-04-15 17:03 G 32558224.12 32558224.21 32558224.30 0.1616 0.1025

Mars 84431-03-21 20:10 G 32558929.23 32558929.34 32558929.45 0.1629 0.0556

Mars 84432-01-29 22:48 G 32559243.29 32559243.45 32559243.62 0.1908 0.0084

Jupiter 84432-02-02 19:12 G 32559247.14 32559247.30 32559247.46 0.0518 0.0217

Earth 84432-02-07 21:08 G 32559252.24 32559252.38 32559252.52 0.2708 0.0517

Moon 84432-02-07 21:36 G 32559252.26 32559252.40 32559252.54 0.2702 0.0644 *

Moon 84434-08-09 12:00 G 32560165.89 32560166.00 32560166.11 0.2618 0.0967

Earth 84434-08-09 12:00 G 32560165.89 32560166.00 32560166.11 0.2625 0.0910 *

Jupiter 84437-09-22 19:56 G 32561306.20 32561306.33 32561306.47 0.0508 0.0068

Mars 84438-09-06 04:34 G 32561654.64 32561654.69 32561654.75 0.1613 0.1390

Saturn 84439-03-04 08:10 G 32561833.74 32561833.84 32561833.93 0.0263 0.0184

Saturn 84439-05-31 18:29 G 32561922.14 32561922.27 32561922.40 0.0263 0.0082

Saturn 84439-08-28 05:03 G 32562010.57 32562010.71 32562010.85 0.0263 0.0022

Saturn 84439-11-24 15:36 G 32562099.03 32562099.15 32562099.27 0.0262 0.0126

Saturn 84440-02-21 02:24 G 32562187.54 32562187.60 32562187.67 0.0262 0.0232

Mars 84440-08-11 07:12 G 32562359.68 32562359.80 32562359.92 0.1625 0.0160

Mars 84441-06-20 16:48 G 32562673.07 32562673.20 32562673.33 0.1913 0.1168

Jupiter 84443-11-21 16:20 G 32563557.11 32563557.18 32563557.26 0.0518 0.0469

Jupiter 84444-02-19 23:03 G 32563647.43 32563647.46 32563647.50 0.0521 0.0506

Moon 84445-02-09 22:48 G 32564003.39 32564003.45 32564003.50 0.2702 0.2487

Earth 84445-02-09 23:17 G 32564003.45 32564003.47 32564003.49 0.2708 0.2669 *

Neptune 84447-07-04 18:44 G 32564878.22 32564878.28 32564878.38 0.0090 0.0081

Moon 84447-08-12 06:44 G 32564916.71 32564916.78 32564916.84 0.2621 0.2131

Earth 84447-08-12 07:27 G 32564916.75 32564916.81 32564916.86 0.2624 0.2290 *

Neptune 84447-09-30 22:05 G 32564966.32 32564966.42 32564966.54 0.0090 0.0070

Neptune 84447-12-28 01:12 G 32565054.43 32565054.55 32565054.69 0.0090 0.0060

Neptune 84448-03-25 04:20 G 32565142.54 32565142.68 32565142.84 0.0090 0.0050

Neptune 84448-06-21 07:41 G 32565230.66 32565230.82 32565230.98 0.0090 0.0039

Neptune 84448-09-17 10:34 G 32565318.78 32565318.94 32565319.12 0.0090 0.0029

Neptune 84448-12-14 13:41 G 32565406.90 32565407.07 32565407.25 0.0090 0.0019

Neptune 84449-03-12 16:48 G 32565495.02 32565495.20 32565495.38 0.0090 0.0009

Neptune 84449-06-08 19:41 G 32565583.15 32565583.32 32565583.50 0.0090 0.0003

Jupiter 84449-07-12 00:15 G 32565616.39 32565616.51 32565616.63 0.0508 0.0230

Neptune 84449-09-04 22:48 G 32565671.27 32565671.45 32565671.63 0.0090 0.0011

Jupiter 84449-10-09 06:44 G 32565705.72 32565705.78 32565705.84 0.0506 0.0448

Neptune 84449-12-02 01:41 G 32565759.40 32565759.57 32565759.75 0.0090 0.0022

Mars 84450-01-01 18:29 G 32565790.15 32565790.27 32565790.39 0.1622 0.0230

Neptune 84450-02-28 04:34 G 32565847.53 32565847.69 32565847.87 0.0090 0.0032

Neptune 84450-05-27 07:27 G 32565935.67 32565935.81 32565935.98 0.0090 0.0042

Neptune 84450-08-23 10:20 G 32566023.80 32566023.93 32566024.09 0.0090 0.0052

Neptune 84450-11-19 13:41 G 32566111.94 32566112.07 32566112.20 0.0090 0.0061

Neptune 84451-02-15 16:34 G 32566200.09 32566200.19 32566200.30 0.0090 0.0071

Neptune 84451-05-14 19:12 G 32566288.24 32566288.30 32566288.39 0.0090 0.0081

Mars 84451-12-07 22:05 G 32566495.37 32566495.42 32566495.48 0.1636 0.1412

Uranus 84453-07-11 01:56 G 32567076.50 32567076.58 32567076.69 0.0134 0.0113

Venus 84453-08-14 15:22 G 32567111.05 32567111.14 32567111.23 0.3629 0.1842

Uranus 84453-10-07 08:24 G 32567164.72 32567164.85 32567164.99 0.0134 0.0088

Uranus 84454-01-03 14:24 G 32567252.96 32567253.10 32567253.27 0.0134 0.0064

Saturn 84454-04-01 05:17 G 32567340.58 32567340.72 32567340.86 0.0298 0.0183

Uranus 84454-04-01 20:53 G 32567341.20 32567341.37 32567341.54 0.0134 0.0039

Uranus 84454-06-29 03:08 G 32567429.45 32567429.63 32567429.81 0.0134 0.0015

Saturn 84454-06-29 04:48 G 32567429.53 32567429.70 32567429.88 0.0298 0.0019 *

Earth 84454-08-05 03:08 G 32567466.53 32567466.63 32567466.72 0.2625 0.1487

Moon 84454-08-05 03:51 G 32567466.56 32567466.66 32567466.76 0.2624 0.1415 *

Uranus 84454-09-25 09:08 G 32567517.71 32567517.88 32567518.06 0.0134 0.0010

Saturn 84454-09-26 03:51 G 32567518.55 32567518.66 32567518.79 0.0298 0.0216

Uranus 84454-12-22 15:08 G 32567605.96 32567606.13 32567606.31 0.0134 0.0034

Uranus 84455-03-20 21:22 G 32567694.23 32567694.39 32567694.55 0.0134 0.0057

Uranus 84455-06-17 03:08 G 32567782.50 32567782.63 32567782.78 0.0134 0.0081

Uranus 84455-09-13 09:08 G 32567870.78 32567870.88 32567871.00 0.0134 0.0104

Jupiter 84455-12-08 21:51 G 32567957.26 32567957.41 32567957.55 0.0520 0.0275

Uranus 84455-12-10 14:53 G 32567959.08 32567959.12 32567959.18 0.0134 0.0128

Venus 84459-02-28 06:58 G 32569134.69 32569134.79 32569134.90 0.3630 0.0497

Mars 84459-05-25 05:46 G 32569220.63 32569220.74 32569220.85 0.1619 0.0613

Mars 84461-04-29 09:08 G 32569925.79 32569925.88 32569925.97 0.1632 0.0999

Jupiter 84461-04-30 04:05 G 32569926.59 32569926.67 32569926.74 0.0509 0.0406

Jupiter 84461-07-28 10:05 G 32570015.81 32570015.92 32570016.04 0.0506 0.0268

Mars 84462-03-10 05:03 G 32570240.60 32570240.71 32570240.83 0.1902 0.1326

Venus 84464-09-12 22:48 G 32571158.39 32571158.45 32571158.51 0.3630 0.2874

Earth 84465-02-05 00:29 G 32571303.40 32571303.52 32571303.65 0.2708 0.1309

Moon 84465-02-05 01:41 G 32571303.44 32571303.57 32571303.70 0.2703 0.1148 *

Earth 84467-08-07 21:51 G 32572217.30 32572217.41 32572217.53 0.2625 0.0189

Moon 84467-08-07 22:20 G 32572217.31 32572217.43 32572217.55 0.2618 0.0100 *

Jupiter 84467-09-26 19:56 G 32572267.15 32572267.33 32572267.50 0.0520 0.0039

Saturn 84468-07-21 11:03 G 32572565.88 32572565.96 32572566.04 0.0263 0.0213

Venus 84468-09-11 06:00 G 32572617.65 32572617.75 32572617.85 0.3742 0.2817

Mars 84468-10-14 17:03 G 32572651.12 32572651.21 32572651.30 0.1616 0.0985

Saturn 84468-10-17 21:22 G 32572654.27 32572654.39 32572654.51 0.0263 0.0110

Saturn 84469-01-14 07:56 G 32572742.69 32572742.83 32572742.97 0.0263 0.0008

Saturn 84469-04-12 18:29 G 32572831.14 32572831.27 32572831.40 0.0263 0.0098

Saturn 84469-07-10 05:03 G 32572919.63 32572919.71 32572919.81 0.0263 0.0204

Mars 84470-09-19 19:56 G 32573356.22 32573356.33 32573356.45 0.1629 0.0594

Mars 84471-07-30 23:46 G 32573670.33 32573670.49 32573670.66 0.1908 0.0166

Jupiter 84473-05-16 13:56 G 32574325.95 32574326.08 32574326.21 0.0507 0.0096

Moon 84478-02-08 03:22 G 32576054.50 32576054.64 32576054.77 0.2702 0.0874

Earth 84478-02-08 03:08 G 32576054.50 32576054.63 32576054.76 0.2708 0.0931 *

Mars 84478-03-07 04:34 G 32576081.63 32576081.69 32576081.75 0.1613 0.1352

Jupiter 84479-07-15 16:48 G 32576577.05 32576577.20 32576577.36 0.0519 0.0217

Mars 84480-02-10 07:12 G 32576786.68 32576786.80 32576786.92 0.1625 0.0199

Moon 84480-08-09 16:48 G 32576968.09 32576968.20 32576968.31 0.2619 0.1096

Earth 84480-08-09 17:03 G 32576968.11 32576968.21 32576968.32 0.2625 0.1186 *

Mars 84480-12-19 17:32 G 32577100.09 32577100.23 32577100.36 0.1913 0.1082

Saturn 84483-08-19 06:15 G 32578072.65 32578072.76 32578072.89 0.0298 0.0221

Saturn 84483-11-16 06:15 G 32578161.58 32578161.76 32578161.93 0.0299 0.0019

Saturn 84484-02-13 05:17 G 32578250.59 32578250.72 32578250.87 0.0299 0.0180

Jupiter 84485-03-04 18:00 G 32578636.11 32578636.25 32578636.38 0.0508 0.0076

Pluto 84486-01-20 11:17 G 32578957.95 32578957.97 32578958.02 0.0062 0.0060

Pluto 84486-04-18 12:00 G 32579045.92 32579046.00 32579046.13 0.0062 0.0050

Pluto 84486-07-15 13:27 G 32579133.93 32579134.06 32579134.20 0.0062 0.0039

Pluto 84486-10-11 14:10 G 32579221.95 32579222.09 32579222.26 0.0062 0.0029

Pluto 84487-01-07 15:22 G 32579309.98 32579310.14 32579310.31 0.0062 0.0018

Pluto 84487-04-05 16:20 G 32579398.01 32579398.18 32579398.35 0.0062 0.0008

Pluto 84487-07-02 17:17 G 32579486.05 32579486.22 32579486.40 0.0062 0.0003

Earth 84487-08-03 13:12 G 32579518.02 32579518.05 32579518.08 0.2625 0.2522

Moon 84487-08-03 13:56 G 32579518.04 32579518.08 32579518.13 0.2627 0.2385 *

Pluto 84487-09-28 18:15 G 32579574.10 32579574.26 32579574.43 0.0062 0.0013

Pluto 84487-12-25 19:12 G 32579662.15 32579662.30 32579662.46 0.0062 0.0024

Pluto 84488-03-22 19:56 G 32579750.20 32579750.33 32579750.49 0.0062 0.0035

Pluto 84488-06-18 21:08 G 32579838.27 32579838.38 32579838.50 0.0062 0.0045

Pluto 84488-09-14 21:51 G 32579926.35 32579926.41 32579926.50 0.0063 0.0056

Mars 84489-07-02 18:29 G 32580217.15 32580217.27 32580217.38 0.1622 0.0195

Jupiter 84491-05-03 14:10 G 32580887.02 32580887.09 32580887.16 0.0518 0.0468

Mars 84491-06-07 22:05 G 32580922.37 32580922.42 32580922.48 0.1636 0.1453

Jupiter 84491-08-01 20:53 G 32580977.34 32580977.37 32580977.41 0.0521 0.0506

Moon 84493-08-12 11:32 G 32581718.96 32581718.98 32581719.01 0.2621 0.2540

Earth 84493-08-12 12:29 G 32581719.00 32581719.02 32581719.04 0.2624 0.2566 *

Uranus 84495-04-15 21:36 G 32582330.37 32582330.40 32582330.42 0.0144 0.0141

Uranus 84495-07-13 01:27 G 32582418.49 32582418.56 32582418.64 0.0144 0.0118

Uranus 84495-10-09 05:32 G 32582506.63 32582506.73 32582506.83 0.0144 0.0095

Uranus 84496-01-05 09:22 G 32582594.78 32582594.89 32582595.02 0.0144 0.0073

Uranus 84496-04-02 13:27 G 32582682.93 32582683.06 32582683.19 0.0144 0.0050

Uranus 84496-06-29 17:32 G 32582771.10 32582771.23 32582771.37 0.0144 0.0026

Uranus 84496-09-25 21:36 G 32582859.27 32582859.40 32582859.54 0.0144 0.0006

Jupiter 84496-12-21 22:05 G 32582946.31 32582946.42 32582946.54 0.0509 0.0240

Uranus 84496-12-23 01:41 G 32582947.44 32582947.57 32582947.71 0.0144 0.0022

Jupiter 84497-03-21 04:34 G 32583035.62 32583035.69 32583035.75 0.0506 0.0439

Uranus 84497-03-21 06:00 G 32583035.62 32583035.75 32583035.88 0.0144 0.0044 *

Uranus 84497-06-17 10:05 G 32583123.80 32583123.92 32583124.05 0.0144 0.0068

Uranus 84497-09-13 14:10 G 32583211.99 32583212.09 32583212.21 0.0144 0.0092

Saturn 84497-12-08 14:39 G 32583298.05 32583298.11 32583298.17 0.0263 0.0233

Uranus 84497-12-10 18:15 G 32583300.19 32583300.26 32583300.36 0.0144 0.0117

Saturn 84498-03-07 00:58 G 32583386.42 32583386.54 32583386.66 0.0263 0.0131

Uranus 84498-03-08 22:34 G 32583388.42 32583388.44 32583388.48 0.0144 0.0140

Saturn 84498-06-03 11:32 G 32583474.84 32583474.98 32583475.11 0.0263 0.0029

Saturn 84498-08-30 22:05 G 32583563.29 32583563.42 32583563.55 0.0263 0.0076

Mars 84498-11-23 05:46 G 32583647.63 32583647.74 32583647.85 0.1619 0.0571

Saturn 84498-11-27 08:39 G 32583651.77 32583651.86 32583651.97 0.0263 0.0182

Earth 84500-08-06 07:56 G 32584268.73 32584268.83 32584268.94 0.2625 0.1226

Moon 84500-08-06 08:39 G 32584268.76 32584268.86 32584268.97 0.2622 0.1138 *

Mars 84500-10-29 09:08 G 32584352.79 32584352.88 32584352.97 0.1632 0.1039

Mars 84501-09-09 06:00 G 32584667.64 32584667.75 32584667.86 0.1902 0.1414

Jupiter 84503-05-21 18:29 G 32585287.12 32585287.27 32585287.42 0.0520 0.0257

Venus 84504-09-05 21:08 G 32585760.34 32585760.38 32585760.43 0.3629 0.3279

Mars 84508-04-15 17:03 G 32587078.12 32587078.21 32587078.30 0.1616 0.0947

Jupiter 84508-10-11 02:24 G 32587256.52 32587256.60 32587256.68 0.0509 0.0404

Jupiter 84509-01-08 08:39 G 32587345.75 32587345.86 32587345.97 0.0506 0.0272

Mars 84510-03-21 20:10 G 32587783.23 32587783.34 32587783.45 0.1629 0.0636

Venus 84510-03-22 12:44 G 32587783.93 32587784.03 32587784.13 0.3629 0.0979

Mars 84511-01-30 00:29 G 32588097.35 32588097.52 32588097.68 0.1908 0.0238

Earth 84511-02-07 06:44 G 32588105.64 32588105.78 32588105.91 0.2708 0.0884

Moon 84511-02-07 07:41 G 32588105.68 32588105.82 32588105.95 0.2703 0.0773 *

Saturn 84513-01-06 04:48 G 32588804.64 32588804.70 32588804.75 0.0298 0.0280

Saturn 84513-04-05 04:34 G 32588893.52 32588893.69 32588893.86 0.0298 0.0078

Saturn 84513-07-03 04:05 G 32588982.51 32588982.67 32588982.83 0.0298 0.0122

Earth 84513-08-09 02:53 G 32589019.51 32589019.62 32589019.74 0.2625 0.0124

Moon 84513-08-09 03:22 G 32589019.52 32589019.64 32589019.76 0.2618 0.0133 *

Jupiter 84515-03-09 16:48 G 32589597.03 32589597.20 32589597.37 0.0519 0.0022

Venus 84515-10-06 04:34 G 32589807.59 32589807.69 32589807.78 0.3630 0.1380

Mars 84517-09-06 04:34 G 32590508.62 32590508.69 32590508.75 0.1613 0.1316

Mars 84519-08-12 07:12 G 32591213.68 32591213.80 32591213.91 0.1625 0.0240

Venus 84519-10-04 00:29 G 32591266.40 32591266.52 32591266.64 0.3743 0.2074

Mars 84520-06-20 18:15 G 32591527.12 32591527.26 32591527.40 0.1913 0.0999

Jupiter 84520-10-27 12:15 G 32591655.88 32591656.01 32591656.14 0.0507 0.0096

Moon 84524-02-10 08:53 G 32592856.75 32592856.87 32592857.00 0.2701 0.1353

Earth 84524-02-10 09:08 G 32592856.76 32592856.88 32592857.00 0.2708 0.1337 *

Moon 84526-08-11 21:36 G 32593770.31 32593770.40 32593770.50 0.2619 0.1453

Earth 84526-08-11 22:05 G 32593770.32 32593770.42 32593770.52 0.2625 0.1458 *

Jupiter 84526-12-26 14:39 G 32593906.95 32593907.11 32593907.27 0.0519 0.0219

Saturn 84527-04-28 17:32 G 32594030.22 32594030.23 32594030.24 0.0264 0.0262

Saturn 84527-07-26 03:51 G 32594118.55 32594118.66 32594118.77 0.0263 0.0160

Saturn 84527-10-22 14:24 G 32594206.96 32594207.10 32594207.23 0.0263 0.0058

Saturn 84528-01-19 00:58 G 32594295.40 32594295.54 32594295.67 0.0263 0.0048

Saturn 84528-04-16 11:32 G 32594383.87 32594383.98 32594384.09 0.0263 0.0153

Saturn 84528-07-13 22:20 G 32594472.41 32594472.43 32594472.45 0.0263 0.0259

Mars 84529-01-01 18:15 G 32594644.15 32594644.26 32594644.38 0.1622 0.0161

Neptune 84529-01-04 06:15 G 32594646.73 32594646.76 32594646.81 0.0088 0.0084

Neptune 84529-04-02 07:41 G 32594734.77 32594734.82 32594734.90 0.0088 0.0077

Neptune 84529-06-29 09:22 G 32594822.81 32594822.89 32594822.98 0.0088 0.0069

Neptune 84529-09-25 10:48 G 32594910.86 32594910.95 32594911.05 0.0088 0.0062

Neptune 84529-12-22 12:15 G 32594998.91 32594999.01 32594999.13 0.0088 0.0055

Neptune 84530-03-20 13:41 G 32595086.96 32595087.07 32595087.20 0.0088 0.0047

Neptune 84530-06-16 15:22 G 32595175.02 32595175.14 32595175.26 0.0088 0.0040

Neptune 84530-09-12 16:48 G 32595263.07 32595263.20 32595263.33 0.0088 0.0032

Mars 84530-12-07 22:05 G 32595349.37 32595349.42 32595349.47 0.1636 0.1486

Neptune 84530-12-09 18:15 G 32595351.13 32595351.26 32595351.40 0.0088 0.0025

Neptune 84531-03-07 19:56 G 32595439.19 32595439.33 32595439.47 0.0088 0.0018

Neptune 84531-06-03 21:22 G 32595527.25 32595527.39 32595527.53 0.0088 0.0010

Neptune 84531-08-30 22:48 G 32595615.31 32595615.45 32595615.60 0.0088 0.0004

Neptune 84531-11-27 00:29 G 32595703.38 32595703.52 32595703.66 0.0088 0.0005

Neptune 84532-02-23 01:56 G 32595791.44 32595791.58 32595791.72 0.0088 0.0012

Neptune 84532-05-21 03:22 G 32595879.51 32595879.64 32595879.78 0.0088 0.0020

Jupiter 84532-08-15 16:20 G 32595966.04 32595966.18 32595966.31 0.0507 0.0078

Neptune 84532-08-17 05:03 G 32595967.58 32595967.71 32595967.85 0.0088 0.0027

Neptune 84532-11-13 06:29 G 32596055.65 32596055.77 32596055.91 0.0088 0.0035

Neptune 84533-02-09 07:56 G 32596143.72 32596143.83 32596143.96 0.0088 0.0043

Neptune 84533-05-08 09:36 G 32596231.79 32596231.90 32596232.02 0.0088 0.0050

Neptune 84533-08-04 11:03 G 32596319.86 32596319.96 32596320.08 0.0088 0.0058

Earth 84533-08-04 18:15 G 32596320.20 32596320.26 32596320.31 0.2625 0.2267

Moon 84533-08-04 18:58 G 32596320.23 32596320.29 32596320.35 0.2627 0.2222 *

Neptune 84533-10-31 12:44 G 32596407.94 32596408.03 32596408.13 0.0088 0.0065

Neptune 84534-01-27 14:10 G 32596496.02 32596496.09 32596496.18 0.0088 0.0073

Neptune 84534-04-25 16:05 G 32596584.11 32596584.17 32596584.22 0.0088 0.0080

Uranus 84537-05-05 03:36 G 32597689.61 32597689.65 32597689.72 0.0134 0.0127

Uranus 84537-08-01 10:05 G 32597777.81 32597777.92 32597778.04 0.0134 0.0102

Uranus 84537-10-28 16:05 G 32597866.04 32597866.17 32597866.33 0.0134 0.0078

Uranus 84538-01-24 22:34 G 32597954.28 32597954.44 32597954.61 0.0134 0.0053

Uranus 84538-04-23 04:48 G 32598042.53 32598042.70 32598042.88 0.0134 0.0029

Mars 84538-05-25 05:46 G 32598074.63 32598074.74 32598074.85 0.1619 0.0534

Uranus 84538-07-20 11:03 G 32598130.78 32598130.96 32598131.14 0.0134 0.0005

Jupiter 84538-10-14 11:46 G 32598216.92 32598216.99 32598217.06 0.0518 0.0473

Uranus 84538-10-16 17:17 G 32598219.04 32598219.22 32598219.40 0.0134 0.0020

Jupiter 84539-01-12 18:29 G 32598307.23 32598307.27 32598307.32 0.0521 0.0502

Uranus 84539-01-12 23:17 G 32598307.30 32598307.47 32598307.64 0.0134 0.0044 *

Uranus 84539-04-11 05:03 G 32598395.57 32598395.71 32598395.88 0.0134 0.0068

Uranus 84539-07-08 11:17 G 32598483.84 32598483.97 32598484.10 0.0134 0.0091

Uranus 84539-10-04 17:03 G 32598572.13 32598572.21 32598572.31 0.0134 0.0115

Mars 84540-04-29 09:08 G 32598779.79 32598779.88 32598779.96 0.1632 0.1078

Mars 84541-03-10 06:58 G 32599094.69 32599094.79 32599094.88 0.1902 0.1506

Saturn 84542-08-23 05:46 G 32599625.58 32599625.74 32599625.91 0.0298 0.0116

Saturn 84542-11-20 05:32 G 32599714.56 32599714.73 32599714.89 0.0299 0.0086

Saturn 84543-02-17 04:20 G 32599803.63 32599803.68 32599803.74 0.0299 0.0281

Moon 84544-02-05 11:03 G 32600156.91 32600156.96 32600157.01 0.2705 0.2494

Jupiter 84544-06-03 20:10 G 32600276.22 32600276.34 32600276.45 0.0509 0.0249

Jupiter 84544-09-01 02:24 G 32600365.53 32600365.60 32600365.67 0.0506 0.0430

Earth 84546-08-07 12:58 G 32601070.93 32601071.04 32601071.15 0.2625 0.0968

Moon 84546-08-07 13:41 G 32601070.95 32601071.07 32601071.18 0.2621 0.0869 *

Mars 84547-10-15 17:03 G 32601505.11 32601505.21 32601505.31 0.1616 0.0907

Mars 84549-09-19 19:56 G 32602210.23 32602210.33 32602210.44 0.1629 0.0676

Mars 84550-07-31 01:12 G 32602524.39 32602524.55 32602524.71 0.1908 0.0322

Jupiter 84550-10-31 16:05 G 32602617.03 32602617.17 32602617.33 0.0520 0.0257

Jupiter 84556-03-23 00:15 G 32604586.44 32604586.51 32604586.59 0.0510 0.0415

Jupiter 84556-06-20 06:29 G 32604675.66 32604675.77 32604675.89 0.0507 0.0262

Saturn 84556-12-12 07:41 G 32604850.72 32604850.82 32604850.92 0.0263 0.0180

Earth 84557-02-07 12:44 G 32604907.89 32604908.03 32604908.17 0.2708 0.0465

Moon 84557-02-07 13:27 G 32604907.91 32604908.06 32604908.20 0.2703 0.0398 *

Mars 84557-03-07 04:34 G 32604935.62 32604935.69 32604935.76 0.1613 0.1275

Saturn 84557-03-10 18:00 G 32604939.12 32604939.25 32604939.38 0.0263 0.0077

Saturn 84557-06-07 04:34 G 32605027.55 32605027.69 32605027.83 0.0263 0.0026

Saturn 84557-09-03 15:08 G 32605116.01 32605116.13 32605116.25 0.0263 0.0131

Saturn 84557-12-01 01:56 G 32605204.53 32605204.58 32605204.64 0.0263 0.0237

Mars 84559-02-10 07:12 G 32605640.68 32605640.80 32605640.91 0.1625 0.0281

Earth 84559-08-10 07:56 G 32605821.71 32605821.83 32605821.95 0.2625 0.0369

Moon 84559-08-10 08:10 G 32605821.72 32605821.84 32605821.96 0.2618 0.0408 *

Mars 84559-12-20 18:58 G 32605954.15 32605954.29 32605954.44 0.1913 0.0905

Venus 84561-04-12 18:29 G 32606433.20 32606433.27 32606433.35 0.3629 0.2430

Jupiter 84562-08-19 13:27 G 32606926.89 32606927.06 32606927.24 0.0519 0.0009

Venus 84566-10-27 10:20 G 32608456.82 32608456.93 32608457.03 0.3629 0.0181

Jupiter 84568-04-08 10:34 G 32608985.81 32608985.94 32608986.08 0.0507 0.0097

Mars 84568-07-02 18:15 G 32609071.15 32609071.26 32609071.38 0.1622 0.0129

Moon 84570-02-10 14:53 G 32609659.01 32609659.12 32609659.23 0.2701 0.1689

Earth 84570-02-10 15:08 G 32609659.02 32609659.13 32609659.23 0.2708 0.1746 *

Mars 84570-06-07 22:05 G 32609776.38 32609776.42 32609776.46 0.1636 0.1529

Saturn 84572-01-10 04:48 G 32610357.56 32610357.70 32610357.85 0.0298 0.0169

Saturn 84572-04-08 04:34 G 32610446.52 32610446.69 32610446.87 0.0298 0.0032

Venus 84572-05-12 01:56 G 32610480.50 32610480.58 32610480.66 0.3630 0.2246

Saturn 84572-07-06 03:36 G 32610535.55 32610535.65 32610535.77 0.0298 0.0229

Moon 84572-08-12 02:39 G 32610572.52 32610572.61 32610572.70 0.2619 0.1625

Earth 84572-08-12 03:08 G 32610572.55 32610572.63 32610572.72 0.2624 0.1735 *

Jupiter 84574-06-07 11:32 G 32611236.82 32611236.98 32611237.13 0.0519 0.0236

Venus 84576-05-10 01:56 G 32611939.44 32611939.58 32611939.73 0.3743 0.0402

Mars 84577-11-23 05:32 G 32612501.62 32612501.73 32612501.84 0.1618 0.0499

Pluto 84577-11-29 08:53 G 32612507.80 32612507.87 32612507.96 0.0082 0.0068

Pluto 84578-02-25 10:34 G 32612595.82 32612595.94 32612596.06 0.0082 0.0047

Pluto 84578-05-24 12:00 G 32612683.86 32612684.00 32612684.14 0.0082 0.0026

Pluto 84578-08-20 13:27 G 32612771.92 32612772.06 32612772.21 0.0081 0.0006

Pluto 84578-11-16 14:53 G 32612859.98 32612860.12 32612860.27 0.0081 0.0014

Pluto 84579-02-12 16:05 G 32612948.05 32612948.17 32612948.32 0.0081 0.0035

Uranus 84579-05-07 04:48 G 32613031.66 32613031.70 32613031.76 0.0144 0.0134

Pluto 84579-05-11 17:32 G 32613036.13 32613036.23 32613036.35 0.0081 0.0055

Uranus 84579-08-03 08:53 G 32613119.79 32613119.87 32613119.96 0.0144 0.0111

Earth 84579-08-05 23:03 G 32613122.39 32613122.46 32613122.54 0.2625 0.2015

Moon 84579-08-05 23:46 G 32613122.41 32613122.49 32613122.58 0.2626 0.1863 *

Pluto 84579-08-07 18:58 G 32613124.25 32613124.29 32613124.35 0.0081 0.0075

Mars 84579-10-29 09:08 G 32613206.79 32613206.88 32613206.96 0.1632 0.1115

Uranus 84579-10-30 12:58 G 32613207.93 32613208.04 32613208.15 0.0144 0.0088

Jupiter 84580-01-26 14:39 G 32613295.97 32613296.11 32613296.24 0.0507 0.0079

Uranus 84580-01-26 16:48 G 32613296.08 32613296.20 32613296.33 0.0144 0.0066 *

Uranus 84580-04-23 20:53 G 32613384.24 32613384.37 32613384.51 0.0144 0.0042

Uranus 84580-07-21 00:58 G 32613472.41 32613472.54 32613472.68 0.0144 0.0019

Mars 84580-09-08 07:12 G 32613521.71 32613521.80 32613521.89 0.1902 0.1568

Uranus 84580-10-17 05:03 G 32613560.57 32613560.71 32613560.85 0.0144 0.0005

Uranus 84581-01-13 09:08 G 32613648.75 32613648.88 32613649.02 0.0144 0.0028

Uranus 84581-04-11 13:27 G 32613736.93 32613737.06 32613737.19 0.0144 0.0051

Uranus 84581-07-08 17:32 G 32613825.11 32613825.23 32613825.35 0.0144 0.0075

Uranus 84581-10-04 21:36 G 32613913.30 32613913.40 32613913.51 0.0144 0.0099

Uranus 84582-01-01 01:41 G 32614001.51 32614001.57 32614001.65 0.0144 0.0124

Jupiter 84586-03-26 09:08 G 32615546.82 32615546.88 32615546.94 0.0518 0.0480

Saturn 84586-05-01 10:20 G 32615582.85 32615582.93 32615583.01 0.0263 0.0210

Jupiter 84586-06-24 16:05 G 32615637.13 32615637.17 32615637.22 0.0521 0.0499

Saturn 84586-07-28 20:39 G 32615671.24 32615671.36 32615671.49 0.0263 0.0107

Saturn 84586-10-25 07:12 G 32615759.66 32615759.80 32615759.94 0.0263 0.0004

Saturn 84587-01-21 17:46 G 32615848.11 32615848.24 32615848.37 0.0263 0.0101

Mars 84587-04-15 17:03 G 32615932.11 32615932.21 32615932.31 0.1616 0.0869

Saturn 84587-04-20 04:34 G 32615936.61 32615936.69 32615936.77 0.0263 0.0207

Mars 84589-03-20 19:56 G 32616637.22 32616637.33 32616637.44 0.1628 0.0707

Mars 84590-01-29 02:10 G 32616951.43 32616951.59 32616951.75 0.1908 0.0414

Earth 84590-02-05 15:51 G 32616959.09 32616959.16 32616959.23 0.2708 0.2310

Moon 84590-02-05 17:17 G 32616959.14 32616959.22 32616959.30 0.2705 0.2242 *

Jupiter 84591-11-14 18:29 G 32617606.16 32617606.27 32617606.39 0.0508 0.0247

Jupiter 84592-02-12 00:44 G 32617695.46 32617695.53 32617695.60 0.0505 0.0428

Earth 84592-08-07 18:00 G 32617873.13 32617873.25 32617873.36 0.2625 0.0706

Moon 84592-08-07 18:29 G 32617873.16 32617873.27 32617873.39 0.2620 0.0680 *

Mars 84596-09-05 04:34 G 32619362.61 32619362.69 32619362.76 0.1613 0.1236

Jupiter 84598-04-12 13:41 G 32619946.92 32619947.07 32619947.22 0.0520 0.0251

Mars 84598-08-11 07:12 G 32620067.68 32620067.80 32620067.91 0.1625 0.0320

Mars 84599-06-20 19:56 G 32620381.18 32620381.33 32620381.48 0.1913 0.0813

Saturn 84601-05-30 05:32 G 32621089.61 32621089.73 32621089.86 0.0298 0.0211

Saturn 84601-08-27 05:32 G 32621178.55 32621178.73 32621178.91 0.0298 0.0009

Saturn 84601-11-24 04:48 G 32621267.57 32621267.70 32621267.83 0.0299 0.0190

Earth 84603-02-09 18:44 G 32621710.14 32621710.28 32621710.42 0.2708 0.0034

Moon 84603-02-09 19:12 G 32621710.15 32621710.30 32621710.44 0.2702 0.0094 *

Jupiter 84603-09-03 22:20 G 32621916.36 32621916.43 32621916.50 0.0509 0.0422

Jupiter 84603-12-02 04:20 G 32622005.57 32622005.68 32622005.80 0.0507 0.0254

Moon 84605-08-11 12:58 G 32622623.93 32622624.04 32622624.16 0.2618 0.0648

Earth 84605-08-11 12:58 G 32622623.93 32622624.04 32622624.16 0.2625 0.0635 *

Mars 84606-01-27 16:05 G 32622793.16 32622793.17 32622793.18 0.1610 0.1598

Mars 84608-01-02 18:15 G 32623498.14 32623498.26 32623498.38 0.1622 0.0081

Mars 84609-12-07 22:05 G 32624203.39 32624203.42 32624203.45 0.1636 0.1568

Jupiter 84610-01-30 11:17 G 32624256.80 32624256.97 32624257.14 0.0519 0.0005

Neptune 84612-01-04 13:12 G 32624961.04 32624961.05 32624961.09 0.0090 0.0089

Neptune 84612-04-01 16:34 G 32625049.11 32625049.19 32625049.29 0.0090 0.0078

Neptune 84612-06-28 19:41 G 32625137.21 32625137.32 32625137.45 0.0090 0.0068

Neptune 84612-09-24 22:48 G 32625225.32 32625225.45 32625225.60 0.0090 0.0058

Neptune 84612-12-22 02:10 G 32625313.44 32625313.59 32625313.74 0.0090 0.0047

Neptune 84613-03-20 05:03 G 32625401.56 32625401.71 32625401.88 0.0090 0.0037

Neptune 84613-06-16 08:10 G 32625489.68 32625489.84 32625490.02 0.0090 0.0027

Neptune 84613-09-12 11:17 G 32625577.80 32625577.97 32625578.15 0.0090 0.0017

Neptune 84613-12-09 14:24 G 32625665.92 32625666.10 32625666.28 0.0090 0.0006

Neptune 84614-03-07 17:32 G 32625754.05 32625754.23 32625754.41 0.0090 0.0004

Neptune 84614-06-03 20:24 G 32625842.18 32625842.35 32625842.53 0.0090 0.0014

Neptune 84614-08-30 23:32 G 32625930.31 32625930.48 32625930.65 0.0090 0.0024

Neptune 84614-11-27 02:24 G 32626018.44 32626018.60 32626018.77 0.0090 0.0034

Neptune 84615-02-23 05:17 G 32626106.57 32626106.72 32626106.88 0.0090 0.0044

Neptune 84615-05-22 08:10 G 32626194.71 32626194.84 32626194.99 0.0090 0.0054

Neptune 84615-08-18 11:03 G 32626282.85 32626282.96 32626283.10 0.0090 0.0064

Saturn 84615-09-19 14:10 G 32626315.02 32626315.09 32626315.15 0.0263 0.0229

Jupiter 84615-09-20 08:24 G 32626315.72 32626315.85 32626315.99 0.0508 0.0087

Neptune 84615-11-14 13:56 G 32626371.00 32626371.08 32626371.20 0.0090 0.0074

Saturn 84615-12-17 00:29 G 32626403.40 32626403.52 32626403.64 0.0263 0.0127

Neptune 84616-02-10 16:48 G 32626459.16 32626459.20 32626459.28 0.0090 0.0084

Moon 84616-02-12 20:39 G 32626461.28 32626461.36 32626461.45 0.2701 0.2113

Earth 84616-02-12 21:08 G 32626461.29 32626461.38 32626461.46 0.2708 0.2158 *

Saturn 84616-03-14 10:48 G 32626491.82 32626491.95 32626492.09 0.0263 0.0025

Saturn 84616-06-10 21:22 G 32626580.26 32626580.39 32626580.53 0.0263 0.0081

Saturn 84616-09-07 08:10 G 32626668.75 32626668.84 32626668.94 0.0263 0.0186

Mars 84617-05-25 05:32 G 32626928.62 32626928.73 32626928.85 0.1619 0.0457

Venus 84617-11-18 16:05 G 32627106.07 32627106.17 32627106.26 0.3629 0.1566

Moon 84618-08-14 07:41 G 32627374.74 32627374.82 32627374.90 0.2619 0.1954

Earth 84618-08-14 08:10 G 32627374.77 32627374.84 32627374.92 0.2624 0.2004 *

Mars 84619-04-30 08:53 G 32627633.79 32627633.87 32627633.96 0.1632 0.1156

Mars 84620-03-10 08:10 G 32627948.77 32627948.84 32627948.92 0.1902 0.1662

Uranus 84621-05-26 11:32 G 32628390.91 32628390.98 32628391.08 0.0134 0.0117

Uranus 84621-08-22 18:00 G 32628479.13 32628479.25 32628479.39 0.0134 0.0092

Jupiter 84621-11-18 08:24 G 32628566.70 32628566.85 32628567.00 0.0518 0.0251

Uranus 84621-11-19 00:15 G 32628567.36 32628567.51 32628567.68 0.0134 0.0067

Uranus 84622-02-15 06:29 G 32628655.61 32628655.77 32628655.95 0.0134 0.0043

Uranus 84622-05-14 12:58 G 32628743.86 32628744.04 32628744.22 0.0134 0.0018

Uranus 84622-08-10 18:58 G 32628832.12 32628832.29 32628832.47 0.0134 0.0007

Uranus 84622-11-07 01:12 G 32628920.38 32628920.55 32628920.72 0.0134 0.0030

Uranus 84623-02-03 07:12 G 32629008.64 32629008.80 32629008.97 0.0134 0.0054

Uranus 84623-05-02 13:12 G 32629096.91 32629097.05 32629097.20 0.0134 0.0078

Venus 84623-06-04 07:41 G 32629129.72 32629129.82 32629129.92 0.3629 0.0762

Uranus 84623-07-29 19:12 G 32629185.19 32629185.30 32629185.42 0.0134 0.0101

Uranus 84623-10-26 00:58 G 32629273.49 32629273.54 32629273.61 0.0134 0.0125

Earth 84625-08-07 04:05 G 32629924.58 32629924.67 32629924.75 0.2625 0.1756

Moon 84625-08-07 04:48 G 32629924.61 32629924.70 32629924.79 0.2624 0.1730 *

Mars 84626-10-15 17:03 G 32630359.11 32630359.21 32630359.31 0.1616 0.0833

Jupiter 84627-07-09 12:44 G 32630625.90 32630626.03 32630626.16 0.0508 0.0079

Mars 84628-09-19 19:56 G 32631064.23 32631064.33 32631064.44 0.1628 0.0752

Venus 84628-12-17 23:17 G 32631153.42 32631153.47 32631153.52 0.3630 0.3134

Mars 84629-07-31 02:39 G 32631378.45 32631378.61 32631378.77 0.1908 0.0488

Saturn 84630-10-17 04:34 G 32631821.62 32631821.69 32631821.78 0.0298 0.0265

Saturn 84631-01-14 04:34 G 32631910.52 32631910.69 32631910.87 0.0298 0.0062

Saturn 84631-04-13 04:05 G 32631999.51 32631999.67 32631999.82 0.0298 0.0137

Venus 84632-12-16 03:22 G 32632612.55 32632612.64 32632612.74 0.3743 0.2824

Jupiter 84633-09-06 06:00 G 32632876.71 32632876.75 32632876.80 0.0518 0.0494

Jupiter 84633-12-05 13:12 G 32632966.99 32632967.05 32632967.11 0.0521 0.0484

Earth 84636-02-07 21:51 G 32633761.31 32633761.41 32633761.51 0.2708 0.1887

Moon 84636-02-07 23:03 G 32633761.35 32633761.46 32633761.58 0.2704 0.1639 *

Mars 84636-03-07 04:20 G 32633789.60 32633789.68 32633789.76 0.1613 0.1201

Mars 84638-02-10 06:58 G 32634494.68 32634494.79 32634494.91 0.1625 0.0351

Earth 84638-08-09 22:48 G 32634675.34 32634675.45 32634675.57 0.2625 0.0458

Moon 84638-08-09 23:32 G 32634675.36 32634675.48 32634675.60 0.2620 0.0325 *

Mars 84638-12-20 20:24 G 32634808.20 32634808.35 32634808.50 0.1913 0.0736

Jupiter 84639-04-27 16:48 G 32634936.08 32634936.20 32634936.32 0.0508 0.0248

Jupiter 84639-07-25 23:03 G 32635025.39 32635025.46 32635025.53 0.0506 0.0429

Saturn 84645-02-05 16:34 G 32637047.18 32637047.19 32637047.21 0.0263 0.0261

Saturn 84645-05-05 02:53 G 32637135.52 32637135.62 32637135.73 0.0263 0.0159

Mars 84645-07-28 16:05 G 32637220.14 32637220.17 32637220.19 0.1610 0.1559

Saturn 84645-08-01 13:27 G 32637223.93 32637224.06 32637224.19 0.0263 0.0056

Jupiter 84645-09-23 11:17 G 32637276.82 32637276.97 32637277.12 0.0520 0.0247

Saturn 84645-10-29 00:00 G 32637312.36 32637312.50 32637312.63 0.0263 0.0048

Saturn 84646-01-25 10:34 G 32637400.83 32637400.94 32637401.05 0.0263 0.0154

Saturn 84646-04-23 21:22 G 32637489.38 32637489.39 32637489.41 0.0263 0.0260

Mars 84647-07-03 18:15 G 32637925.14 32637925.26 32637925.38 0.1622 0.0037

Earth 84649-02-10 00:44 G 32638512.39 32638512.53 32638512.67 0.2708 0.0387

Moon 84649-02-10 00:58 G 32638512.40 32638512.54 32638512.68 0.2701 0.0337 *

Mars 84649-06-07 22:05 G 32638630.40 32638630.42 32638630.44 0.1636 0.1602

Jupiter 84651-02-13 20:53 G 32639246.30 32639246.37 32639246.45 0.0509 0.0416

Jupiter 84651-05-14 02:53 G 32639335.51 32639335.62 32639335.74 0.0506 0.0258

Moon 84651-08-12 17:46 G 32639426.13 32639426.24 32639426.36 0.2618 0.0847

Earth 84651-08-12 18:00 G 32639426.14 32639426.25 32639426.36 0.2625 0.0903 *

Mars 84656-11-23 05:32 G 32641355.62 32641355.73 32641355.85 0.1619 0.0418

Jupiter 84657-07-12 08:53 G 32641586.69 32641586.87 32641587.04 0.0519 0.0003

Mars 84658-10-29 08:53 G 32642060.80 32642060.87 32642060.96 0.1632 0.1196

Mars 84659-09-09 08:53 G 32642375.81 32642375.87 32642375.93 0.1902 0.1745

Saturn 84660-06-02 04:48 G 32642642.54 32642642.70 32642642.87 0.0298 0.0108

Saturn 84660-08-30 04:34 G 32642731.52 32642731.69 32642731.85 0.0299 0.0094

Saturn 84660-11-27 03:36 G 32642820.61 32642820.65 32642820.69 0.0299 0.0290

Moon 84662-02-13 02:39 G 32643263.56 32643263.61 32643263.65 0.2702 0.2535

Earth 84662-02-13 03:08 G 32643263.59 32643263.63 32643263.67 0.2708 0.2572 *

Jupiter 84663-03-02 06:44 G 32643645.64 32643645.78 32643645.91 0.0508 0.0082

Uranus 84663-05-28 12:29 G 32643732.96 32643733.02 32643733.09 0.0144 0.0126

Uranus 84663-08-24 16:34 G 32643821.09 32643821.19 32643821.28 0.0144 0.0104

Uranus 84663-11-20 20:24 G 32643909.24 32643909.35 32643909.47 0.0144 0.0081

Uranus 84664-02-17 00:29 G 32643997.39 32643997.52 32643997.65 0.0144 0.0058

Uranus 84664-05-15 04:34 G 32644085.55 32644085.69 32644085.82 0.0144 0.0035

Uranus 84664-08-11 08:39 G 32644173.72 32644173.86 32644174.00 0.0144 0.0012

Moon 84664-08-14 12:44 G 32644176.96 32644177.03 32644177.09 0.2620 0.2194

Earth 84664-08-14 13:12 G 32644177.00 32644177.05 32644177.11 0.2624 0.2281 *

Uranus 84664-11-07 12:44 G 32644261.89 32644262.03 32644262.17 0.0144 0.0012

Uranus 84665-02-03 16:48 G 32644350.06 32644350.20 32644350.33 0.0144 0.0035

Uranus 84665-05-02 20:39 G 32644438.24 32644438.36 32644438.50 0.0144 0.0060

Uranus 84665-07-30 00:58 G 32644526.43 32644526.54 32644526.66 0.0144 0.0083

Uranus 84665-10-26 05:03 G 32644614.62 32644614.71 32644614.81 0.0144 0.0106

Uranus 84666-01-22 09:22 G 32644702.83 32644702.89 32644702.95 0.0144 0.0130

Mars 84666-04-15 16:48 G 32644786.10 32644786.20 32644786.31 0.1616 0.0794

Mars 84668-03-20 19:56 G 32645491.23 32645491.33 32645491.43 0.1628 0.0787

Venus 84668-12-09 21:51 G 32645755.36 32645755.41 32645755.47 0.3629 0.3001

Mars 84669-01-29 03:22 G 32645805.49 32645805.64 32645805.80 0.1908 0.0577

Jupiter 84669-04-30 06:29 G 32645896.61 32645896.77 32645896.92 0.0518 0.0246

Earth 84671-08-08 09:08 G 32646726.78 32646726.88 32646726.97 0.2625 0.1502

Moon 84671-08-08 09:51 G 32646726.81 32646726.91 32646727.01 0.2622 0.1343 *

Venus 84674-06-25 13:27 G 32647778.96 32647779.06 32647779.16 0.3629 0.0699

Saturn 84674-09-22 06:44 G 32647867.68 32647867.78 32647867.88 0.0263 0.0179

Jupiter 84674-12-19 10:48 G 32647955.82 32647955.95 32647956.08 0.0508 0.0088

Saturn 84674-12-19 17:03 G 32647956.08 32647956.21 32647956.34 0.0263 0.0077 *

Saturn 84675-03-18 03:36 G 32648044.51 32648044.65 32648044.79 0.0263 0.0027

Saturn 84675-06-14 14:10 G 32648132.97 32648133.09 32648133.21 0.0262 0.0132

Mars 84675-09-06 04:20 G 32648216.60 32648216.68 32648216.76 0.1613 0.1160

Saturn 84675-09-11 00:58 G 32648221.49 32648221.54 32648221.60 0.0262 0.0238

Mars 84677-08-11 06:58 G 32648921.68 32648921.79 32648921.91 0.1625 0.0395

Mars 84678-06-20 21:22 G 32649235.24 32649235.39 32649235.55 0.1913 0.0638

Venus 84680-01-09 05:03 G 32649802.62 32649802.71 32649802.81 0.3629 0.1641

Jupiter 84681-02-16 03:22 G 32650206.60 32650206.64 32650206.68 0.0517 0.0502

Jupiter 84681-05-17 10:20 G 32650296.87 32650296.93 32650297.00 0.0520 0.0474

Earth 84682-02-08 04:05 G 32650563.55 32650563.67 32650563.79 0.2708 0.1455

Moon 84682-02-08 05:03 G 32650563.59 32650563.71 32650563.83 0.2703 0.1421 *

Venus 84684-01-06 21:51 G 32651261.29 32651261.41 32651261.53 0.3743 0.2096

Earth 84684-08-10 03:51 G 32651477.55 32651477.66 32651477.78 0.2625 0.0200

Moon 84684-08-10 04:20 G 32651477.56 32651477.68 32651477.80 0.2620 0.0196 *

Mars 84685-01-26 15:51 G 32651647.13 32651647.16 32651647.20 0.1610 0.1524

Jupiter 84686-10-07 15:08 G 32652266.01 32652266.13 32652266.24 0.0509 0.0251

Mars 84687-01-01 18:15 G 32652352.14 32652352.26 32652352.38 0.1622 0.0008

Jupiter 84687-01-04 21:22 G 32652355.32 32652355.39 32652355.46 0.0506 0.0428

Mars 84687-11-10 14:24 G 32652665.09 32652665.10 32652665.11 0.1918 0.1911

Saturn 84689-10-20 03:51 G 32653374.51 32653374.66 32653374.81 0.0298 0.0162

Saturn 84690-01-17 03:36 G 32653463.47 32653463.65 32653463.82 0.0298 0.0040

Saturn 84690-04-16 02:39 G 32653552.51 32653552.61 32653552.72 0.0298 0.0237

Jupiter 84693-03-05 08:24 G 32654606.70 32654606.85 32654607.01 0.0520 0.0237

Neptune 84693-10-02 05:32 G 32654817.69 32654817.73 32654817.79 0.0088 0.0081

Neptune 84693-12-29 06:58 G 32654905.72 32654905.79 32654905.87 0.0088 0.0074

Neptune 84694-03-27 08:24 G 32654993.77 32654993.85 32654993.95 0.0088 0.0067

Neptune 84694-06-23 09:51 G 32655081.82 32655081.91 32655082.02 0.0088 0.0059

Neptune 84694-09-19 11:32 G 32655169.87 32655169.98 32655170.09 0.0088 0.0052

Neptune 84694-12-16 12:58 G 32655257.92 32655258.04 32655258.16 0.0088 0.0045

Earth 84695-02-11 06:44 G 32655314.64 32655314.78 32655314.91 0.2708 0.0803

Moon 84695-02-11 06:58 G 32655314.65 32655314.79 32655314.92 0.2701 0.0919 *

Neptune 84695-03-14 14:24 G 32655345.98 32655346.10 32655346.23 0.0088 0.0037

Neptune 84695-06-10 15:51 G 32655434.03 32655434.16 32655434.30 0.0088 0.0030

Neptune 84695-09-06 17:17 G 32655522.09 32655522.22 32655522.36 0.0088 0.0023

Neptune 84695-12-03 18:58 G 32655610.15 32655610.29 32655610.43 0.0088 0.0015

Neptune 84696-02-29 20:24 G 32655698.21 32655698.35 32655698.49 0.0088 0.0008

Mars 84696-05-24 05:32 G 32655782.61 32655782.73 32655782.84 0.1618 0.0383

Neptune 84696-05-27 21:51 G 32655786.27 32655786.41 32655786.56 0.0088 0.0003

Neptune 84696-08-23 23:32 G 32655874.34 32655874.48 32655874.62 0.0088 0.0007

Neptune 84696-11-20 00:58 G 32655962.40 32655962.54 32655962.68 0.0088 0.0014

Neptune 84697-02-16 02:24 G 32656050.47 32656050.60 32656050.74 0.0088 0.0022

Neptune 84697-05-15 03:51 G 32656138.54 32656138.66 32656138.80 0.0088 0.0030

Neptune 84697-08-11 05:32 G 32656226.61 32656226.73 32656226.86 0.0088 0.0037

Moon 84697-08-12 22:48 G 32656228.34 32656228.45 32656228.56 0.2618 0.1188

Earth 84697-08-12 23:03 G 32656228.35 32656228.46 32656228.57 0.2625 0.1172 *

Neptune 84697-11-07 06:58 G 32656314.68 32656314.79 32656314.92 0.0088 0.0045

Neptune 84698-02-03 08:39 G 32656402.75 32656402.86 32656402.98 0.0088 0.0052

Mars 84698-04-29 08:53 G 32656487.80 32656487.87 32656487.95 0.1632 0.1231

Neptune 84698-05-02 10:05 G 32656490.82 32656490.92 32656491.03 0.0088 0.0060

Jupiter 84698-07-26 19:12 G 32656576.23 32656576.30 32656576.38 0.0509 0.0415

Neptune 84698-07-29 11:32 G 32656578.90 32656578.98 32656579.08 0.0088 0.0068

Jupiter 84698-10-24 01:27 G 32656665.44 32656665.56 32656665.67 0.0506 0.0260

Neptune 84698-10-25 13:12 G 32656666.99 32656667.05 32656667.13 0.0088 0.0075

Neptune 84699-01-21 14:39 G 32656755.08 32656755.11 32656755.17 0.0088 0.0083

Mars 84699-03-10 09:22 G 32656802.85 32656802.89 32656802.94 0.1902 0.1814

Saturn 84704-02-10 09:08 G 32658599.80 32658599.88 32658599.96 0.0263 0.0212

Saturn 84704-05-08 19:27 G 32658688.19 32658688.31 32658688.43 0.0263 0.0110

Saturn 84704-08-05 05:46 G 32658776.61 32658776.74 32658776.88 0.0263 0.0009

Earth 84704-08-06 19:12 G 32658778.28 32658778.30 32658778.33 0.2625 0.2532

Moon 84704-08-06 19:56 G 32658778.29 32658778.33 32658778.38 0.2628 0.2416 *

Saturn 84704-11-01 16:20 G 32658865.06 32658865.18 32658865.31 0.0263 0.0098

Jupiter 84704-12-23 06:29 G 32658916.60 32658916.77 32658916.94 0.0519 0.0003

Saturn 84705-01-29 03:08 G 32658953.54 32658953.63 32658953.72 0.0263 0.0203

Uranus 84705-03-20 12:58 G 32659004.02 32659004.04 32659004.08 0.0134 0.0132

Uranus 84705-06-16 19:27 G 32659092.21 32659092.31 32659092.43 0.0134 0.0107

Uranus 84705-09-13 01:56 G 32659180.44 32659180.58 32659180.73 0.0134 0.0082

Mars 84705-10-15 16:48 G 32659213.10 32659213.20 32659213.31 0.1616 0.0754

Uranus 84705-12-10 08:10 G 32659268.68 32659268.84 32659269.01 0.0134 0.0057

Uranus 84706-03-08 14:24 G 32659356.93 32659357.10 32659357.28 0.0134 0.0033

Uranus 84706-06-04 20:39 G 32659445.18 32659445.36 32659445.54 0.0134 0.0009

Uranus 84706-09-01 02:53 G 32659533.44 32659533.62 32659533.80 0.0134 0.0016

Uranus 84706-11-28 08:53 G 32659621.70 32659621.87 32659622.05 0.0134 0.0040

Uranus 84707-02-24 14:53 G 32659709.97 32659710.12 32659710.29 0.0134 0.0064

Uranus 84707-05-23 21:08 G 32659798.25 32659798.38 32659798.51 0.0134 0.0087

Uranus 84707-08-20 02:53 G 32659886.53 32659886.62 32659886.73 0.0134 0.0111

Mars 84707-09-20 19:56 G 32659918.23 32659918.33 32659918.43 0.1628 0.0824

Mars 84708-07-31 04:20 G 32660232.53 32660232.68 32660232.84 0.1908 0.0672

Jupiter 84710-08-13 05:17 G 32660975.59 32660975.72 32660975.86 0.0507 0.0091

Moon 84710-08-16 17:32 G 32660979.19 32660979.23 32660979.27 0.2621 0.2439

Earth 84710-08-16 18:15 G 32660979.24 32660979.26 32660979.29 0.2624 0.2554 *

Mars 84715-03-08 04:20 G 32662643.60 32662643.68 32662643.76 0.1613 0.1123

Jupiter 84716-10-11 04:05 G 32663226.52 32663226.67 32663226.83 0.0518 0.0246

Mars 84717-02-10 06:58 G 32663348.68 32663348.79 32663348.91 0.1625 0.0431

Earth 84717-08-09 13:56 G 32663528.98 32663529.08 32663529.19 0.2625 0.1241

Moon 84717-08-09 14:53 G 32663529.01 32663529.12 32663529.22 0.2622 0.1207 *

Mars 84717-12-20 22:05 G 32663662.26 32663662.42 32663662.58 0.1913 0.0554

Saturn 84719-03-10 02:53 G 32664106.50 32664106.62 32664106.75 0.0298 0.0217

Saturn 84719-06-07 02:53 G 32664195.44 32664195.62 32664195.80 0.0299 0.0014

Saturn 84719-09-04 02:10 G 32664284.46 32664284.59 32664284.73 0.0299 0.0186

Jupiter 84722-06-01 08:53 G 32665285.74 32665285.87 32665286.00 0.0508 0.0090

Mars 84724-07-28 15:51 G 32666074.12 32666074.16 32666074.20 0.1610 0.1482

Venus 84725-07-17 19:12 G 32666428.22 32666428.30 32666428.39 0.3629 0.2145

Mars 84726-07-03 18:15 G 32666779.14 32666779.26 32666779.38 0.1622 0.0041

Mars 84727-05-12 15:36 G 32667092.10 32667092.15 32667092.20 0.1918 0.1806

Earth 84728-02-10 10:05 G 32667365.79 32667365.92 32667366.05 0.2708 0.1028

Moon 84728-02-10 10:48 G 32667365.81 32667365.95 32667366.09 0.2702 0.0854 *

Jupiter 84728-07-30 01:41 G 32667536.52 32667536.57 32667536.63 0.0517 0.0490

Jupiter 84728-10-28 08:53 G 32667626.81 32667626.87 32667626.93 0.0520 0.0485

Moon 84730-08-12 09:08 G 32668279.76 32668279.88 32668280.00 0.2619 0.0196

Earth 84730-08-12 08:53 G 32668279.76 32668279.87 32668279.99 0.2625 0.0112 *

Venus 84731-01-31 10:48 G 32668451.85 32668451.95 32668452.06 0.3629 0.0204

Saturn 84733-06-29 12:29 G 32669331.97 32669332.02 32669332.09 0.0263 0.0234

Saturn 84733-09-25 22:48 G 32669420.34 32669420.45 32669420.57 0.0263 0.0132

Saturn 84733-12-23 09:22 G 32669508.75 32669508.89 32669509.02 0.0262 0.0030

Jupiter 84734-03-20 13:12 G 32669595.93 32669596.05 32669596.16 0.0509 0.0256

Saturn 84734-03-21 19:56 G 32669597.20 32669597.33 32669597.46 0.0262 0.0075

Pluto 84734-05-17 16:48 G 32669654.20 32669654.20 32669654.26 0.0062 0.0061

Jupiter 84734-06-17 19:27 G 32669685.24 32669685.31 32669685.38 0.0506 0.0424

Saturn 84734-06-18 06:29 G 32669685.67 32669685.77 32669685.87 0.0262 0.0180

Pluto 84734-08-13 18:15 G 32669742.17 32669742.26 32669742.36 0.0062 0.0050

Pluto 84734-11-09 18:58 G 32669830.17 32669830.29 32669830.44 0.0062 0.0040

Pluto 84735-02-05 19:56 G 32669918.19 32669918.33 32669918.50 0.0062 0.0030

Pluto 84735-05-04 21:08 G 32670006.22 32670006.38 32670006.55 0.0062 0.0019

Pluto 84735-07-31 22:05 G 32670094.26 32670094.42 32670094.60 0.0062 0.0009

Pluto 84735-10-27 23:17 G 32670182.29 32670182.47 32670182.64 0.0062 0.0002

Mars 84735-11-24 05:32 G 32670209.61 32670209.73 32670209.84 0.1618 0.0341

Pluto 84736-01-24 00:00 G 32670270.34 32670270.50 32670270.67 0.0062 0.0013

Pluto 84736-04-21 00:44 G 32670358.39 32670358.53 32670358.71 0.0062 0.0024

Pluto 84736-07-18 01:56 G 32670446.44 32670446.58 32670446.73 0.0062 0.0034

Venus 84736-08-16 02:39 G 32670475.53 32670475.61 32670475.68 0.3629 0.2525

Pluto 84736-10-14 02:39 G 32670534.51 32670534.61 32670534.75 0.0062 0.0045

Pluto 84737-01-10 03:51 G 32670622.59 32670622.66 32670622.75 0.0063 0.0055

Mars 84737-10-29 08:53 G 32670914.80 32670914.87 32670914.95 0.1632 0.1271

Mars 84738-09-09 10:20 G 32671229.93 32671229.93 32671229.93 0.1902 0.1900

Venus 84740-08-13 23:32 G 32671934.33 32671934.48 32671934.62 0.3743 0.0415

Jupiter 84740-08-16 06:15 G 32671936.60 32671936.76 32671936.91 0.0519 0.0235

Moon 84741-02-12 12:44 G 32672116.90 32672117.03 32672117.16 0.2701 0.1136

Earth 84741-02-12 12:44 G 32672116.90 32672117.03 32672117.16 0.2708 0.1220 *

Moon 84743-08-15 03:51 G 32673030.56 32673030.66 32673030.76 0.2618 0.1345

Earth 84743-08-15 04:05 G 32673030.57 32673030.67 32673030.77 0.2625 0.1447 *

Mars 84745-04-15 16:48 G 32673640.10 32673640.20 32673640.31 0.1615 0.0717

Jupiter 84746-01-06 17:32 G 32673906.16 32673906.23 32673906.30 0.0510 0.0418

Jupiter 84746-04-05 23:32 G 32673995.37 32673995.48 32673995.60 0.0507 0.0260

Mars 84747-03-21 19:56 G 32674345.23 32674345.33 32674345.43 0.1628 0.0864

Uranus 84747-03-22 16:20 G 32674346.16 32674346.18 32674346.23 0.0144 0.0139

Uranus 84747-06-18 20:24 G 32674434.28 32674434.35 32674434.44 0.0144 0.0116

Uranus 84747-09-15 00:29 G 32674522.42 32674522.52 32674522.63 0.0144 0.0093

Uranus 84747-12-12 04:20 G 32674610.57 32674610.68 32674610.81 0.0144 0.0071

Mars 84748-01-30 04:48 G 32674659.55 32674659.70 32674659.85 0.1908 0.0737

Uranus 84748-03-09 08:24 G 32674698.72 32674698.85 32674698.99 0.0144 0.0048

Uranus 84748-06-05 12:29 G 32674786.89 32674787.02 32674787.16 0.0144 0.0025

Saturn 84748-07-27 01:27 G 32674838.50 32674838.56 32674838.64 0.0298 0.0275

Uranus 84748-09-01 16:34 G 32674875.05 32674875.19 32674875.33 0.0144 0.0003

Saturn 84748-10-24 01:41 G 32674927.40 32674927.57 32674927.74 0.0298 0.0070

Uranus 84748-11-28 20:39 G 32674963.22 32674963.36 32674963.50 0.0144 0.0022

Saturn 84749-01-21 01:12 G 32675016.39 32675016.55 32675016.71 0.0299 0.0130

Uranus 84749-02-25 00:44 G 32675051.40 32675051.53 32675051.67 0.0144 0.0045

Uranus 84749-05-24 04:48 G 32675139.58 32675139.70 32675139.83 0.0144 0.0069

Uranus 84749-08-20 09:08 G 32675227.77 32675227.88 32675227.99 0.0144 0.0093

Uranus 84749-11-16 13:12 G 32675315.97 32675316.05 32675316.13 0.0144 0.0116

Uranus 84750-02-12 17:17 G 32675404.20 32675404.22 32675404.26 0.0144 0.0141

Earth 84750-08-08 00:15 G 32675580.45 32675580.51 32675580.56 0.2625 0.2280

Moon 84750-08-08 00:58 G 32675580.48 32675580.54 32675580.60 0.2626 0.2191 *

Jupiter 84752-06-04 04:05 G 32676246.50 32676246.67 32676246.85 0.0519 0.0007

Mars 84754-09-06 04:20 G 32677070.59 32677070.68 32677070.76 0.1613 0.1086

Mars 84756-08-11 06:58 G 32677775.68 32677775.79 32677775.90 0.1625 0.0466

Mars 84757-06-20 22:48 G 32678089.29 32678089.45 32678089.61 0.1913 0.0471

Jupiter 84758-01-23 03:51 G 32678305.53 32678305.66 32678305.79 0.0507 0.0095

Saturn 84763-02-13 00:58 G 32680152.44 32680152.54 32680152.65 0.0263 0.0167

Saturn 84763-05-12 11:17 G 32680240.84 32680240.97 32680241.11 0.0263 0.0065

Saturn 84763-08-08 21:51 G 32680329.27 32680329.41 32680329.55 0.0263 0.0039

Earth 84763-08-10 18:58 G 32680331.18 32680331.29 32680331.40 0.2625 0.0978

Moon 84763-08-10 19:41 G 32680331.21 32680331.32 32680331.43 0.2622 0.0837 *

Saturn 84763-11-05 08:24 G 32680417.74 32680417.85 32680417.97 0.0263 0.0143

Mars 84764-01-27 15:51 G 32680501.11 32680501.16 32680501.21 0.1610 0.1445

Saturn 84764-02-01 19:12 G 32680506.26 32680506.30 32680506.34 0.0263 0.0249

Jupiter 84764-03-23 01:56 G 32680556.43 32680556.58 32680556.74 0.0518 0.0246

Mars 84766-01-01 18:15 G 32681206.14 32681206.26 32681206.37 0.1622 0.0090

Mars 84766-11-10 16:34 G 32681519.11 32681519.19 32681519.26 0.1918 0.1711

Jupiter 84769-11-11 08:10 G 32682615.70 32682615.84 32682615.97 0.0508 0.0075

Earth 84774-02-10 16:05 G 32684168.03 32684168.17 32684168.31 0.2708 0.0597

Moon 84774-02-10 16:48 G 32684168.06 32684168.20 32684168.34 0.2701 0.0571 *

Mars 84775-05-25 05:32 G 32684636.61 32684636.73 32684636.84 0.1618 0.0304

Jupiter 84776-01-09 23:46 G 32684866.44 32684866.49 32684866.55 0.0517 0.0486

Jupiter 84776-04-09 06:58 G 32684956.74 32684956.79 32684956.84 0.0520 0.0491

Venus 84776-08-08 01:12 G 32685077.53 32685077.55 32685077.57 0.3628 0.3564

Moon 84776-08-12 14:10 G 32685081.97 32685082.09 32685082.21 0.2618 0.0312

Earth 84776-08-12 13:56 G 32685081.97 32685082.08 32685082.20 0.2625 0.0367 *

Neptune 84776-10-01 11:03 G 32685131.92 32685131.96 32685132.02 0.0090 0.0086

Neptune 84776-12-28 13:56 G 32685220.01 32685220.08 32685220.20 0.0090 0.0076

Neptune 84777-03-26 17:32 G 32685308.11 32685308.23 32685308.36 0.0090 0.0065

Mars 84777-04-29 08:53 G 32685341.80 32685341.87 32685341.94 0.1632 0.1309

Neptune 84777-06-22 20:24 G 32685396.22 32685396.35 32685396.51 0.0090 0.0055

Neptune 84777-09-18 23:32 G 32685484.34 32685484.48 32685484.65 0.0090 0.0045

Neptune 84777-12-16 02:53 G 32685572.46 32685572.62 32685572.79 0.0090 0.0034

Saturn 84778-03-12 23:46 G 32685659.34 32685659.49 32685659.65 0.0299 0.0133

Neptune 84778-03-14 06:00 G 32685660.58 32685660.75 32685660.93 0.0090 0.0024

Saturn 84778-06-09 23:32 G 32685748.31 32685748.48 32685748.66 0.0299 0.0070

Neptune 84778-06-10 09:08 G 32685748.70 32685748.88 32685749.06 0.0090 0.0014

Neptune 84778-09-06 12:15 G 32685836.83 32685837.01 32685837.19 0.0090 0.0004

Saturn 84778-09-06 22:48 G 32685837.38 32685837.45 32685837.53 0.0299 0.0268

Neptune 84778-12-03 15:22 G 32685924.96 32685925.14 32685925.31 0.0090 0.0007

Neptune 84779-03-01 18:15 G 32686013.09 32686013.26 32686013.44 0.0090 0.0017

Neptune 84779-05-28 21:08 G 32686101.22 32686101.38 32686101.56 0.0090 0.0027

Neptune 84779-08-25 00:15 G 32686189.35 32686189.51 32686189.68 0.0090 0.0037

Neptune 84779-11-21 03:08 G 32686277.49 32686277.63 32686277.79 0.0090 0.0047

Neptune 84780-02-17 06:00 G 32686365.63 32686365.75 32686365.90 0.0090 0.0057

Neptune 84780-05-15 08:53 G 32686453.77 32686453.87 32686454.00 0.0090 0.0067

Neptune 84780-08-11 11:46 G 32686541.92 32686541.99 32686542.10 0.0090 0.0077

Neptune 84780-11-07 14:39 G 32686630.09 32686630.11 32686630.18 0.0090 0.0087

Jupiter 84781-08-30 11:32 G 32686925.87 32686925.98 32686926.10 0.0509 0.0253

Jupiter 84781-11-27 17:46 G 32687015.18 32687015.24 32687015.32 0.0506 0.0427

Venus 84782-02-21 16:48 G 32687101.10 32687101.20 32687101.29 0.3629 0.1280

Mars 84784-10-14 16:48 G 32688067.09 32688067.20 32688067.31 0.1615 0.0678

Mars 84786-09-19 19:56 G 32688772.23 32688772.33 32688772.43 0.1628 0.0903

Moon 84787-02-13 18:29 G 32688919.16 32688919.27 32688919.38 0.2702 0.1684

Earth 84787-02-13 18:44 G 32688919.17 32688919.28 32688919.39 0.2708 0.1635 *

Mars 84787-07-31 05:46 G 32689086.59 32689086.74 32689086.89 0.1908 0.0828

Venus 84787-09-07 08:24 G 32689124.75 32689124.85 32689124.95 0.3629 0.1047

Jupiter 84788-01-27 05:03 G 32689266.56 32689266.71 32689266.86 0.0519 0.0254

Uranus 84789-04-09 21:08 G 32689705.31 32689705.38 32689705.46 0.0134 0.0122

Uranus 84789-07-07 03:22 G 32689793.53 32689793.64 32689793.78 0.0134 0.0097

Moon 84789-08-15 08:39 G 32689832.77 32689832.86 32689832.95 0.2619 0.1727

Earth 84789-08-15 09:08 G 32689832.79 32689832.88 32689832.97 0.2625 0.1716 *

Uranus 84789-10-03 09:36 G 32689881.76 32689881.90 32689882.07 0.0134 0.0073

Uranus 84789-12-30 16:05 G 32689970.01 32689970.17 32689970.35 0.0134 0.0047

Uranus 84790-03-28 22:20 G 32690058.26 32690058.43 32690058.61 0.0134 0.0023

Uranus 84790-06-25 04:34 G 32690146.51 32690146.69 32690146.87 0.0134 0.0003

Uranus 84790-09-21 10:48 G 32690234.77 32690234.95 32690235.13 0.0134 0.0026

Uranus 84790-12-18 16:48 G 32690323.04 32690323.20 32690323.37 0.0134 0.0050

Uranus 84791-03-16 22:48 G 32690411.31 32690411.45 32690411.61 0.0134 0.0074

Uranus 84791-06-13 04:48 G 32690499.59 32690499.70 32690499.83 0.0134 0.0098

Uranus 84791-09-09 10:34 G 32690587.88 32690587.94 32690588.03 0.0134 0.0121

Saturn 84792-07-02 04:20 G 32690884.59 32690884.68 32690884.77 0.0262 0.0191

Saturn 84792-09-28 14:39 G 32690972.98 32690973.11 32690973.24 0.0262 0.0089

Saturn 84792-12-26 01:12 G 32691061.41 32691061.55 32691061.69 0.0262 0.0014

Venus 84793-03-23 00:00 G 32691148.47 32691148.50 32691148.53 0.3629 0.3410

Saturn 84793-03-24 11:46 G 32691149.87 32691149.99 32691150.11 0.0262 0.0118

Jupiter 84793-06-18 15:51 G 32691236.09 32691236.16 32691236.23 0.0510 0.0419

Saturn 84793-06-20 22:20 G 32691238.37 32691238.43 32691238.51 0.0262 0.0224

Jupiter 84793-09-15 22:05 G 32691325.30 32691325.42 32691325.53 0.0507 0.0259

Mars 84794-03-07 04:20 G 32691497.59 32691497.68 32691497.77 0.1613 0.1046

Mars 84796-02-10 06:58 G 32692202.68 32692202.79 32692202.90 0.1625 0.0506

Earth 84796-08-08 05:17 G 32692382.64 32692382.72 32692382.79 0.2625 0.2025

Moon 84796-08-08 06:00 G 32692382.67 32692382.75 32692382.83 0.2625 0.1941 *

Mars 84796-12-19 23:46 G 32692516.33 32692516.49 32692516.65 0.1913 0.0382

Venus 84797-03-21 00:58 G 32692607.45 32692607.54 32692607.63 0.3743 0.2850

Jupiter 84799-11-15 02:24 G 32693576.42 32693576.60 32693576.77 0.0518 0.0010

Mars 84803-07-28 15:51 G 32694928.10 32694928.16 32694928.21 0.1610 0.1411

Mars 84805-07-02 18:15 G 32695633.14 32695633.26 32695633.38 0.1621 0.0121

Jupiter 84805-07-05 02:24 G 32695635.47 32695635.60 32695635.73 0.0508 0.0096

Mars 84806-05-11 17:03 G 32695946.12 32695946.21 32695946.29 0.1918 0.1637

Earth 84807-02-08 19:12 G 32696219.24 32696219.30 32696219.35 0.2707 0.2484

Moon 84807-02-08 20:24 G 32696219.27 32696219.35 32696219.42 0.2704 0.2310 *

Saturn 84807-07-30 22:05 G 32696391.29 32696391.42 32696391.56 0.0299 0.0193

Saturn 84807-10-27 22:05 G 32696480.24 32696480.42 32696480.60 0.0299 0.0011

Saturn 84808-01-24 21:22 G 32696569.27 32696569.39 32696569.52 0.0299 0.0209

Earth 84809-08-11 00:00 G 32697133.39 32697133.50 32697133.61 0.2625 0.0715

Moon 84809-08-11 00:44 G 32697133.41 32697133.53 32697133.64 0.2621 0.0673 *

Jupiter 84811-09-03 00:00 G 32697886.35 32697886.50 32697886.66 0.0518 0.0241

Mars 84814-11-23 05:17 G 32699063.61 32699063.72 32699063.84 0.1618 0.0270

Mars 84816-10-28 08:53 G 32699768.81 32699768.87 32699768.94 0.1632 0.1345

Jupiter 84817-04-23 06:44 G 32699945.65 32699945.78 32699945.91 0.0508 0.0066

Earth 84820-02-11 22:05 G 32700970.28 32700970.42 32700970.56 0.2708 0.0182

Moon 84820-02-11 22:48 G 32700970.31 32700970.45 32700970.59 0.2702 0.0058 *

Saturn 84821-11-19 06:29 G 32701616.70 32701616.77 32701616.83 0.0263 0.0227

Saturn 84822-02-15 16:34 G 32701705.07 32701705.19 32701705.31 0.0263 0.0126

Saturn 84822-05-15 03:08 G 32701793.49 32701793.63 32701793.76 0.0262 0.0025

Saturn 84822-08-11 13:27 G 32701881.93 32701882.06 32701882.19 0.0262 0.0081

Moon 84822-08-13 18:58 G 32701884.18 32701884.29 32701884.41 0.2618 0.0681

Earth 84822-08-13 18:58 G 32701884.18 32701884.29 32701884.41 0.2625 0.0624 *

Saturn 84822-11-08 00:00 G 32701970.41 32701970.50 32701970.60 0.0262 0.0186

Jupiter 84823-06-21 21:51 G 32702196.35 32702196.41 32702196.47 0.0518 0.0481

Jupiter 84823-09-20 05:03 G 32702286.67 32702286.71 32702286.76 0.0521 0.0497

Mars 84824-04-14 16:48 G 32702494.09 32702494.20 32702494.31 0.1615 0.0639

Mars 84826-03-20 19:41 G 32703199.23 32703199.32 32703199.42 0.1628 0.0940

Pluto 84826-03-25 15:22 G 32703204.09 32703204.14 32703204.22 0.0082 0.0072

Pluto 84826-06-21 17:03 G 32703292.10 32703292.21 32703292.33 0.0082 0.0051

Pluto 84826-09-17 18:29 G 32703380.14 32703380.27 32703380.41 0.0082 0.0031

Pluto 84826-12-14 19:56 G 32703468.19 32703468.33 32703468.48 0.0082 0.0010

Mars 84827-01-29 06:44 G 32703513.64 32703513.78 32703513.92 0.1908 0.0919

Pluto 84827-03-12 21:22 G 32703556.25 32703556.39 32703556.54 0.0081 0.0011

Pluto 84827-06-08 22:48 G 32703644.32 32703644.45 32703644.59 0.0081 0.0031

Pluto 84827-09-05 00:00 G 32703732.40 32703732.50 32703732.63 0.0081 0.0052

Pluto 84827-12-02 01:27 G 32703820.51 32703820.56 32703820.64 0.0081 0.0072

Jupiter 84829-02-09 11:03 G 32704255.84 32704255.96 32704256.07 0.0509 0.0232

Jupiter 84829-05-09 17:03 G 32704345.16 32704345.21 32704345.28 0.0506 0.0447

Uranus 84831-04-12 00:15 G 32705047.46 32705047.51 32705047.58 0.0144 0.0130

Uranus 84831-07-09 04:20 G 32705135.59 32705135.68 32705135.77 0.0144 0.0107

Uranus 84831-10-05 08:24 G 32705223.74 32705223.85 32705223.96 0.0144 0.0084

Uranus 84832-01-01 12:15 G 32705311.89 32705312.01 32705312.14 0.0144 0.0062

Uranus 84832-03-29 16:20 G 32705400.05 32705400.18 32705400.31 0.0144 0.0039

Uranus 84832-06-25 20:24 G 32705488.21 32705488.35 32705488.49 0.0144 0.0016

Uranus 84832-09-22 00:29 G 32705576.38 32705576.52 32705576.66 0.0144 0.0008

Uranus 84832-12-19 04:34 G 32705664.55 32705664.69 32705664.82 0.0144 0.0031

Moon 84833-02-14 00:15 G 32705721.41 32705721.51 32705721.61 0.2702 0.1917

Earth 84833-02-14 00:44 G 32705721.44 32705721.53 32705721.62 0.2708 0.2053 *

Venus 84833-03-14 22:34 G 32705750.37 32705750.44 32705750.51 0.3628 0.2711

Uranus 84833-03-17 08:39 G 32705752.73 32705752.86 32705752.99 0.0144 0.0054

Uranus 84833-06-13 12:44 G 32705840.91 32705841.03 32705841.15 0.0144 0.0078

Mars 84833-09-05 04:20 G 32705924.59 32705924.68 32705924.77 0.1613 0.1010

Uranus 84833-09-09 16:48 G 32705929.11 32705929.20 32705929.30 0.0144 0.0102

Uranus 84833-12-06 21:08 G 32706017.31 32706017.38 32706017.45 0.0144 0.0125

Jupiter 84835-07-09 03:22 G 32706596.50 32706596.64 32706596.79 0.0519 0.0266

Mars 84835-08-11 06:58 G 32706629.68 32706629.79 32706629.90 0.1625 0.0546

Moon 84835-08-16 13:41 G 32706634.98 32706635.07 32706635.15 0.2620 0.1861

Earth 84835-08-16 14:10 G 32706635.01 32706635.09 32706635.16 0.2625 0.1995 *

Mars 84836-06-20 00:29 G 32706943.36 32706943.52 32706943.68 0.1913 0.0290

Saturn 84836-12-16 18:58 G 32707123.21 32707123.29 32707123.37 0.0299 0.0266

Saturn 84837-03-15 19:12 G 32707212.12 32707212.30 32707212.47 0.0299 0.0061

Saturn 84837-06-12 18:44 G 32707301.13 32707301.28 32707301.44 0.0299 0.0141

Venus 84838-09-28 14:10 G 32707773.99 32707774.09 32707774.19 0.3629 0.0418

Jupiter 84840-11-28 14:24 G 32708566.03 32708566.10 32708566.18 0.0510 0.0413

Jupiter 84841-02-25 20:39 G 32708655.25 32708655.36 32708655.47 0.0507 0.0265

Earth 84842-08-09 10:05 G 32709184.84 32709184.92 32709185.01 0.2625 0.1767

Moon 84842-08-09 11:03 G 32709184.87 32709184.96 32709185.05 0.2625 0.1635 *

Mars 84843-01-26 15:36 G 32709355.10 32709355.15 32709355.21 0.1610 0.1371

Venus 84844-04-13 05:46 G 32709797.65 32709797.74 32709797.83 0.3629 0.1913

Mars 84844-12-31 18:15 G 32710060.14 32710060.26 32710060.37 0.1621 0.0166

Mars 84845-11-09 18:00 G 32710373.15 32710373.25 32710373.34 0.1918 0.1541

Jupiter 84847-04-27 01:41 G 32710906.39 32710906.57 32710906.74 0.0518 0.0030

Venus 84848-04-10 19:12 G 32711256.18 32711256.30 32711256.42 0.3744 0.2122

Saturn 84851-04-08 09:22 G 32712348.86 32712348.89 32712348.93 0.0262 0.0253

Saturn 84851-07-05 19:41 G 32712437.21 32712437.32 32712437.43 0.0262 0.0151

Saturn 84851-10-02 06:00 G 32712525.62 32712525.75 32712525.89 0.0262 0.0050

Saturn 84851-12-29 16:34 G 32712614.06 32712614.19 32712614.33 0.0262 0.0054

Saturn 84852-03-27 03:08 G 32712702.52 32712702.63 32712702.74 0.0262 0.0159

Jupiter 84852-12-15 00:44 G 32712965.40 32712965.53 32712965.66 0.0508 0.0098

Earth 84853-02-09 01:12 G 32713021.46 32713021.55 32713021.64 0.2708 0.2046

Moon 84853-02-09 02:24 G 32713021.50 32713021.60 32713021.70 0.2703 0.1965 *

Mars 84854-05-24 05:17 G 32713490.61 32713490.72 32713490.84 0.1618 0.0234

Earth 84855-08-12 05:03 G 32713935.59 32713935.71 32713935.82 0.2625 0.0451

Moon 84855-08-12 05:32 G 32713935.61 32713935.73 32713935.85 0.2620 0.0391 *

Mars 84856-04-28 08:53 G 32714195.81 32714195.87 32714195.93 0.1632 0.1385

Neptune 84858-04-03 03:08 G 32714900.62 32714900.63 32714900.67 0.0088 0.0086

Neptune 84858-06-30 04:48 G 32714988.64 32714988.70 32714988.76 0.0088 0.0078

Neptune 84858-09-26 06:15 G 32715076.68 32715076.76 32715076.84 0.0088 0.0071

Neptune 84858-12-23 07:41 G 32715164.73 32715164.82 32715164.92 0.0088 0.0064

Jupiter 84859-02-12 22:48 G 32715216.29 32715216.45 32715216.61 0.0518 0.0224

Neptune 84859-03-21 09:08 G 32715252.78 32715252.88 32715252.99 0.0088 0.0057

Neptune 84859-06-17 10:34 G 32715340.83 32715340.94 32715341.06 0.0088 0.0049

Neptune 84859-09-13 12:15 G 32715428.89 32715429.01 32715429.13 0.0088 0.0042

Neptune 84859-12-10 13:27 G 32715516.94 32715517.06 32715517.20 0.0088 0.0035

Neptune 84860-03-07 15:08 G 32715605.00 32715605.13 32715605.26 0.0088 0.0027

Neptune 84860-06-03 16:34 G 32715693.06 32715693.19 32715693.33 0.0088 0.0020

Neptune 84860-08-30 18:15 G 32715781.12 32715781.26 32715781.40 0.0088 0.0013

Neptune 84860-11-26 19:41 G 32715869.18 32715869.32 32715869.46 0.0088 0.0005

Neptune 84861-02-22 21:08 G 32715957.24 32715957.38 32715957.52 0.0088 0.0002

Neptune 84861-05-21 22:34 G 32716045.30 32716045.44 32716045.58 0.0088 0.0010

Neptune 84861-08-18 00:00 G 32716133.37 32716133.50 32716133.65 0.0088 0.0018

Neptune 84861-11-14 01:41 G 32716221.44 32716221.57 32716221.71 0.0088 0.0025

Neptune 84862-02-10 03:08 G 32716309.50 32716309.63 32716309.77 0.0088 0.0032

Neptune 84862-05-09 04:34 G 32716397.57 32716397.69 32716397.82 0.0088 0.0040

Neptune 84862-08-05 06:00 G 32716485.64 32716485.75 32716485.88 0.0088 0.0048

Neptune 84862-11-01 07:41 G 32716573.72 32716573.82 32716573.94 0.0088 0.0055

Neptune 84863-01-28 09:08 G 32716661.79 32716661.88 32716661.99 0.0088 0.0063

Neptune 84863-04-26 10:48 G 32716749.87 32716749.95 32716750.04 0.0088 0.0070

Neptune 84863-07-23 12:15 G 32716837.96 32716838.01 32716838.09 0.0088 0.0078

Mars 84863-10-14 16:48 G 32716921.09 32716921.20 32716921.31 0.1615 0.0605

Neptune 84863-10-19 14:10 G 32716926.06 32716926.09 32716926.12 0.0088 0.0085

Jupiter 84864-10-03 05:03 G 32717275.58 32717275.71 32717275.85 0.0509 0.0066

Mars 84865-09-18 19:56 G 32717626.23 32717626.33 32717626.42 0.1628 0.0980

Earth 84866-02-12 04:05 G 32717772.53 32717772.67 32717772.82 0.2708 0.0269

Moon 84866-02-12 04:34 G 32717772.55 32717772.69 32717772.84 0.2702 0.0302 *

Mars 84866-07-30 07:12 G 32717940.66 32717940.80 32717940.94 0.1908 0.0988

Saturn 84866-08-02 17:17 G 32717944.06 32717944.22 32717944.38 0.0299 0.0123

Saturn 84866-10-30 17:03 G 32718033.04 32718033.21 32718033.38 0.0299 0.0080

Saturn 84867-01-27 16:05 G 32718122.12 32718122.17 32718122.24 0.0299 0.0278

Moon 84868-08-14 00:00 G 32718686.39 32718686.50 32718686.61 0.2618 0.0850

Earth 84868-08-14 00:00 G 32718686.39 32718686.50 32718686.61 0.2625 0.0894 *

Jupiter 84870-12-01 20:24 G 32719526.28 32719526.35 32719526.43 0.0517 0.0467

Jupiter 84871-03-02 03:36 G 32719616.62 32719616.65 32719616.68 0.0520 0.0508

Mars 84873-03-06 04:05 G 32720351.58 32720351.67 32720351.76 0.1613 0.0973

Uranus 84873-04-30 04:48 G 32720406.61 32720406.70 32720406.80 0.0134 0.0113

Uranus 84873-07-27 10:48 G 32720494.83 32720494.95 32720495.11 0.0134 0.0089

Uranus 84873-10-23 17:17 G 32720583.07 32720583.22 32720583.39 0.0134 0.0063

Uranus 84874-01-19 23:46 G 32720671.32 32720671.49 32720671.67 0.0134 0.0038

Uranus 84874-04-18 06:00 G 32720759.57 32720759.75 32720759.93 0.0134 0.0014

Uranus 84874-07-15 12:15 G 32720847.83 32720848.01 32720848.19 0.0134 0.0011

Uranus 84874-10-11 18:15 G 32720936.09 32720936.26 32720936.44 0.0134 0.0035

Uranus 84875-01-08 00:15 G 32721024.36 32721024.51 32721024.68 0.0134 0.0059

Mars 84875-02-09 06:58 G 32721056.68 32721056.79 32721056.90 0.1625 0.0580

Uranus 84875-04-06 06:29 G 32721112.63 32721112.77 32721112.91 0.0134 0.0082

Uranus 84875-07-03 12:15 G 32721200.92 32721201.01 32721201.13 0.0134 0.0107

Uranus 84875-09-29 18:29 G 32721289.23 32721289.27 32721289.32 0.0134 0.0129

Mars 84875-12-20 01:12 G 32721370.39 32721370.55 32721370.71 0.1913 0.0213

Jupiter 84876-07-22 09:36 G 32721585.78 32721585.90 32721586.02 0.0509 0.0223

Jupiter 84876-10-19 15:51 G 32721675.11 32721675.16 32721675.22 0.0506 0.0456

Moon 84879-02-15 06:00 G 32722523.69 32722523.75 32722523.81 0.2702 0.2428

Earth 84879-02-15 06:44 G 32722523.72 32722523.78 32722523.84 0.2708 0.2459 *

Saturn 84880-11-21 21:22 G 32723169.31 32723169.39 32723169.49 0.0262 0.0190

Saturn 84881-02-18 07:56 G 32723257.70 32723257.83 32723257.96 0.0262 0.0088

Saturn 84881-05-17 18:15 G 32723346.12 32723346.26 32723346.40 0.0262 0.0015

Saturn 84881-08-14 04:48 G 32723434.58 32723434.70 32723434.82 0.0262 0.0119

Moon 84881-08-16 18:29 G 32723437.21 32723437.27 32723437.33 0.2621 0.2232

Earth 84881-08-16 19:12 G 32723437.24 32723437.30 32723437.36 0.2624 0.2267 *

Saturn 84881-11-10 15:22 G 32723523.07 32723523.14 32723523.21 0.0262 0.0224

Mars 84882-07-27 15:36 G 32723782.09 32723782.15 32723782.22 0.1610 0.1332

Jupiter 84882-12-19 01:56 G 32723926.43 32723926.58 32723926.72 0.0520 0.0275

Mars 84884-07-01 18:00 G 32724487.14 32724487.25 32724487.37 0.1622 0.0201

Mars 84885-05-10 18:58 G 32724800.18 32724800.29 32724800.40 0.1918 0.1438

Jupiter 84888-05-10 13:56 G 32725896.00 32725896.08 32725896.17 0.0510 0.0387

Jupiter 84888-08-07 20:10 G 32725985.23 32725985.34 32725985.45 0.0507 0.0291

Earth 84888-08-09 15:08 G 32725987.03 32725987.13 32725987.22 0.2625 0.1509

Moon 84888-08-09 15:51 G 32725987.07 32725987.16 32725987.26 0.2624 0.1454 *

Venus 84889-10-19 19:56 G 32726423.25 32726423.33 32726423.42 0.3628 0.1864

Mars 84893-11-22 05:17 G 32727917.61 32727917.72 32727917.84 0.1618 0.0193

Jupiter 84894-10-07 00:15 G 32728236.34 32728236.51 32728236.69 0.0519 0.0046

Venus 84895-05-05 11:32 G 32728446.88 32728446.98 32728447.08 0.3629 0.0438

Mars 84895-10-28 08:53 G 32728622.82 32728622.87 32728622.93 0.1632 0.1424

Saturn 84895-12-20 13:12 G 32728675.92 32728676.05 32728676.18 0.0299 0.0203

Saturn 84896-03-18 13:12 G 32728764.88 32728765.05 32728765.23 0.0299 0.0004

Saturn 84896-06-15 12:44 G 32728853.90 32728854.03 32728854.16 0.0299 0.0202

Earth 84899-02-10 07:27 G 32729823.69 32729823.81 32729823.92 0.2708 0.1611

Moon 84899-02-10 08:24 G 32729823.73 32729823.85 32729823.97 0.2703 0.1397 *

Jupiter 84900-05-27 23:32 G 32730295.35 32730295.48 32730295.61 0.0508 0.0109

Venus 84900-11-19 03:08 G 32730470.57 32730470.63 32730470.70 0.3629 0.2793

Earth 84901-08-13 10:05 G 32730737.80 32730737.92 32730738.03 0.2625 0.0203

Moon 84901-08-13 10:20 G 32730737.81 32730737.93 32730738.05 0.2619 0.0127 *

Mars 84903-04-15 16:48 G 32731348.09 32731348.20 32731348.31 0.1615 0.0568

Venus 84904-11-16 20:39 G 32731929.21 32731929.36 32731929.51 0.3744 0.0349

Mars 84905-03-20 19:56 G 32732053.23 32732053.33 32732053.42 0.1628 0.1017

Mars 84906-01-29 07:56 G 32732367.70 32732367.83 32732367.97 0.1908 0.1075

Jupiter 84906-07-26 22:34 G 32732546.28 32732546.44 32732546.60 0.0518 0.0191

Saturn 84910-04-12 00:29 G 32733901.45 32733901.52 32733901.60 0.0262 0.0216

Saturn 84910-07-09 10:48 G 32733989.83 32733989.95 32733990.07 0.0262 0.0115

Saturn 84910-10-05 21:08 G 32734078.24 32734078.38 32734078.52 0.0262 0.0013

Saturn 84911-01-02 07:41 G 32734166.69 32734166.82 32734166.95 0.0262 0.0091

Saturn 84911-03-31 18:15 G 32734255.17 32734255.26 32734255.35 0.0262 0.0196

Moon 84912-02-14 10:20 G 32734574.79 32734574.93 32734575.07 0.2702 0.0666

Earth 84912-02-14 10:20 G 32734574.79 32734574.93 32734575.06 0.2708 0.0678 *

Jupiter 84912-03-16 03:51 G 32734605.53 32734605.66 32734605.79 0.0509 0.0059

Mars 84912-09-05 04:05 G 32734778.58 32734778.67 32734778.77 0.1612 0.0934

Mars 84914-08-11 06:58 G 32735483.68 32735483.79 32735483.90 0.1625 0.0622

Moon 84914-08-16 04:48 G 32735488.60 32735488.70 32735488.81 0.2619 0.1159

Earth 84914-08-16 05:03 G 32735488.60 32735488.71 32735488.81 0.2625 0.1165 *

Uranus 84915-05-03 07:56 G 32735748.77 32735748.83 32735748.91 0.0144 0.0122

Mars 84915-06-21 02:10 G 32735797.42 32735797.59 32735797.75 0.1913 0.0119

Uranus 84915-07-30 12:00 G 32735836.90 32735837.00 32735837.10 0.0144 0.0099

Uranus 84915-10-26 15:51 G 32735925.05 32735925.16 32735925.28 0.0144 0.0077

Uranus 84916-01-22 19:56 G 32736013.20 32736013.33 32736013.46 0.0144 0.0054

Uranus 84916-04-20 00:00 G 32736101.36 32736101.50 32736101.63 0.0144 0.0031

Uranus 84916-07-17 04:05 G 32736189.53 32736189.67 32736189.81 0.0144 0.0008

Uranus 84916-10-13 07:56 G 32736277.70 32736277.83 32736277.97 0.0144 0.0017

Uranus 84917-01-09 12:00 G 32736365.87 32736366.00 32736366.14 0.0144 0.0039

Uranus 84917-04-07 16:20 G 32736454.05 32736454.18 32736454.30 0.0144 0.0063

Uranus 84917-07-04 20:24 G 32736542.24 32736542.35 32736542.46 0.0144 0.0086

Uranus 84917-10-01 00:15 G 32736630.43 32736630.51 32736630.61 0.0144 0.0111

Uranus 84917-12-28 04:34 G 32736718.65 32736718.69 32736718.75 0.0144 0.0134

Jupiter 84918-05-14 19:27 G 32736856.23 32736856.31 32736856.41 0.0517 0.0444

Earth 84921-08-09 01:12 G 32738038.53 32738038.55 32738038.58 0.2626 0.2550

Moon 84921-08-09 02:10 G 32738038.56 32738038.59 32738038.62 0.2627 0.2526 *

Mars 84922-01-26 15:36 G 32738209.08 32738209.15 32738209.22 0.1610 0.1297

Mars 84924-01-01 18:00 G 32738914.14 32738914.25 32738914.37 0.1621 0.0238

Jupiter 84924-01-03 08:10 G 32738915.73 32738915.84 32738915.96 0.0510 0.0220

Jupiter 84924-04-01 14:24 G 32739005.06 32739005.10 32739005.16 0.0507 0.0463

Mars 84924-11-09 19:12 G 32739227.19 32739227.30 32739227.42 0.1918 0.1375

Saturn 84925-05-09 10:48 G 32739407.88 32739407.95 32739408.03 0.0299 0.0269

Saturn 84925-08-06 11:03 G 32739496.79 32739496.96 32739497.13 0.0299 0.0064

Saturn 84925-11-03 10:34 G 32739585.79 32739585.94 32739586.10 0.0299 0.0139

Moon 84927-08-18 23:32 G 32740239.43 32740239.48 32740239.52 0.2621 0.2400

Earth 84927-08-19 00:15 G 32740239.48 32740239.51 32740239.53 0.2624 0.2547 *

Jupiter 84930-06-01 00:44 G 32741256.39 32741256.53 32741256.67 0.0519 0.0293

Mars 84933-05-24 05:17 G 32742344.60 32742344.72 32742344.84 0.1618 0.0155

Earth 84934-08-11 20:10 G 32742789.23 32742789.34 32742789.44 0.2625 0.1255

Moon 84934-08-11 20:53 G 32742789.26 32742789.37 32742789.47 0.2623 0.1110 *

Mars 84935-04-29 08:53 G 32743049.82 32743049.87 32743049.92 0.1632 0.1458

Jupiter 84935-10-22 12:58 G 32743225.95 32743226.04 32743226.13 0.0510 0.0376

Jupiter 84936-01-19 18:58 G 32743315.19 32743315.29 32743315.40 0.0507 0.0302

Saturn 84939-08-30 02:24 G 32744633.57 32744633.60 32744633.63 0.0262 0.0253

Saturn 84939-11-26 12:29 G 32744721.91 32744722.02 32744722.13 0.0262 0.0153

Saturn 84940-02-22 22:48 G 32744810.32 32744810.45 32744810.59 0.0262 0.0051

Saturn 84940-05-21 09:22 G 32744898.75 32744898.89 32744899.02 0.0262 0.0052

Saturn 84940-08-17 19:41 G 32744987.22 32744987.32 32744987.44 0.0262 0.0156

Venus 84940-11-11 01:56 G 32745072.54 32745072.58 32745072.62 0.3628 0.3283

Saturn 84940-11-14 06:29 G 32745075.76 32745075.77 32745075.78 0.0262 0.0261

Neptune 84941-06-29 08:53 G 32745302.81 32745302.87 32745302.95 0.0090 0.0083

Neptune 84941-09-25 12:00 G 32745390.91 32745391.00 32745391.12 0.0090 0.0073

Neptune 84941-12-22 15:22 G 32745479.02 32745479.14 32745479.28 0.0090 0.0062

Jupiter 84942-03-19 22:48 G 32745566.28 32745566.45 32745566.63 0.0519 0.0058

Neptune 84942-03-20 18:15 G 32745567.13 32745567.26 32745567.42 0.0090 0.0052

Neptune 84942-06-16 21:22 G 32745655.25 32745655.39 32745655.57 0.0090 0.0042

Neptune 84942-09-13 00:44 G 32745743.37 32745743.53 32745743.71 0.0090 0.0031

Mars 84942-10-14 16:48 G 32745775.08 32745775.20 32745775.31 0.1615 0.0529

Neptune 84942-12-10 03:51 G 32745831.49 32745831.66 32745831.84 0.0090 0.0021

Neptune 84943-03-08 06:58 G 32745919.62 32745919.79 32745919.97 0.0090 0.0011

Neptune 84943-06-04 10:05 G 32746007.74 32746007.92 32746008.10 0.0090 0.0001

Neptune 84943-08-31 13:12 G 32746095.87 32746096.05 32746096.23 0.0090 0.0010

Neptune 84943-11-27 16:20 G 32746184.00 32746184.18 32746184.35 0.0090 0.0020

Neptune 84944-02-23 18:58 G 32746272.14 32746272.29 32746272.47 0.0090 0.0031

Neptune 84944-05-21 22:05 G 32746360.27 32746360.42 32746360.59 0.0090 0.0041

Neptune 84944-08-18 00:58 G 32746448.41 32746448.54 32746448.70 0.0090 0.0051

Mars 84944-09-18 19:41 G 32746480.23 32746480.32 32746480.41 0.1628 0.1054

Neptune 84944-11-14 04:20 G 32746536.55 32746536.68 32746536.81 0.0090 0.0060

Neptune 84945-02-10 07:12 G 32746624.70 32746624.80 32746624.91 0.0090 0.0070

Earth 84945-02-11 13:27 G 32746625.93 32746626.06 32746626.19 0.2708 0.1171

Moon 84945-02-11 14:24 G 32746625.97 32746626.10 32746626.24 0.2703 0.1132 *

Neptune 84945-05-09 10:05 G 32746712.85 32746712.92 32746713.01 0.0090 0.0080

Mars 84945-07-30 08:53 G 32746794.75 32746794.87 32746795.00 0.1908 0.1169

Venus 84946-05-27 17:17 G 32747096.12 32747096.22 32747096.32 0.3628 0.1024

Earth 84947-08-14 14:53 G 32747540.01 32747540.12 32747540.24 0.2625 0.0126

Moon 84947-08-14 15:22 G 32747540.02 32747540.14 32747540.26 0.2618 0.0087 *

Jupiter 84947-11-07 23:17 G 32747625.34 32747625.47 32747625.60 0.0508 0.0138

Venus 84951-12-11 08:53 G 32749119.78 32749119.87 32749119.97 0.3629 0.1312

Mars 84952-03-06 04:05 G 32749205.57 32749205.67 32749205.77 0.1612 0.0896

Jupiter 84954-01-05 21:22 G 32749876.23 32749876.39 32749876.56 0.0518 0.0171

Mars 84954-02-09 06:58 G 32749910.68 32749910.79 32749910.90 0.1625 0.0660

Mars 84954-12-20 02:53 G 32750224.45 32750224.62 32750224.78 0.1913 0.0065

Saturn 84954-12-24 06:15 G 32750228.61 32750228.76 32750228.92 0.0299 0.0149

Saturn 84955-03-23 06:15 G 32750317.59 32750317.76 32750317.94 0.0299 0.0056

Saturn 84955-06-20 05:46 G 32750406.65 32750406.74 32750406.83 0.0299 0.0255

Uranus 84957-02-22 06:00 G 32751019.70 32751019.75 32751019.81 0.0134 0.0128

Uranus 84957-05-21 12:29 G 32751107.91 32751108.02 32751108.14 0.0134 0.0103

Uranus 84957-08-17 18:58 G 32751196.14 32751196.29 32751196.43 0.0134 0.0079

Uranus 84957-11-14 00:58 G 32751284.38 32751284.54 32751284.72 0.0134 0.0054

Uranus 84958-02-10 07:27 G 32751372.63 32751372.81 32751372.99 0.0134 0.0029

Moon 84958-02-14 16:05 G 32751377.05 32751377.17 32751377.30 0.2701 0.1142

Earth 84958-02-14 16:20 G 32751377.05 32751377.18 32751377.31 0.2708 0.1101 *

Uranus 84958-05-09 13:41 G 32751460.89 32751461.07 32751461.25 0.0134 0.0005

Uranus 84958-08-05 19:56 G 32751549.15 32751549.33 32751549.51 0.0134 0.0019

Uranus 84958-11-02 01:56 G 32751637.41 32751637.58 32751637.75 0.0134 0.0043

Uranus 84959-01-29 07:56 G 32751725.68 32751725.83 32751725.99 0.0134 0.0067

Uranus 84959-04-27 13:56 G 32751813.96 32751814.08 32751814.22 0.0134 0.0091

Uranus 84959-07-24 19:41 G 32751902.25 32751902.32 32751902.43 0.0134 0.0115

Jupiter 84959-08-27 02:39 G 32751935.48 32751935.61 32751935.75 0.0509 0.0048

Moon 84960-08-16 09:36 G 32752290.80 32752290.90 32752291.00 0.2619 0.1397

Earth 84960-08-16 10:05 G 32752290.82 32752290.92 32752291.02 0.2625 0.1434 *

Venus 84961-06-23 22:05 G 32752602.33 32752602.42 32752602.52 0.3744 0.2795

Mars 84961-07-27 15:36 G 32752636.08 32752636.15 32752636.22 0.1610 0.1256

Mars 84963-07-02 18:00 G 32753341.14 32753341.25 32753341.37 0.1621 0.0271

Mars 84964-05-10 20:24 G 32753654.23 32753654.35 32753654.48 0.1918 0.1270

Jupiter 84965-10-24 19:27 G 32754186.21 32754186.31 32754186.42 0.0517 0.0406

Earth 84967-08-10 06:15 G 32754840.71 32754840.76 32754840.82 0.2625 0.2293

Moon 84967-08-10 06:58 G 32754840.73 32754840.79 32754840.86 0.2627 0.2133 *

Saturn 84969-04-14 15:22 G 32755454.04 32755454.14 32755454.24 0.0262 0.0181

Saturn 84969-07-12 01:41 G 32755542.44 32755542.57 32755542.70 0.0262 0.0080

Saturn 84969-10-08 12:00 G 32755630.86 32755631.00 32755631.14 0.0262 0.0023

Saturn 84970-01-04 22:34 G 32755719.32 32755719.44 32755719.56 0.0262 0.0126

Saturn 84970-04-03 09:08 G 32755807.82 32755807.88 32755807.95 0.0262 0.0231

Jupiter 84971-06-15 06:58 G 32756245.67 32756245.79 32756245.91 0.0509 0.0212

Jupiter 84971-09-12 13:12 G 32756335.00 32756335.05 32756335.10 0.0507 0.0470

Mars 84972-11-22 05:17 G 32756771.60 32756771.72 32756771.84 0.1618 0.0113

Mars 84974-10-28 08:53 G 32757476.83 32757476.87 32757476.92 0.1632 0.1498

Jupiter 84977-11-11 00:00 G 32758586.37 32758586.50 32758586.64 0.0519 0.0321

Earth 84980-08-12 00:58 G 32759591.44 32759591.54 32759591.65 0.2625 0.0994

Moon 84980-08-12 01:41 G 32759591.46 32759591.57 32759591.68 0.2621 0.0977 *

Mars 84982-04-14 16:34 G 32760202.08 32760202.19 32760202.30 0.1615 0.0492

Pluto 84982-12-06 23:46 G 32760438.40 32760438.49 32760438.58 0.0062 0.0053

Pluto 84983-03-05 00:29 G 32760526.41 32760526.52 32760526.65 0.0062 0.0043

Jupiter 84983-04-03 11:32 G 32760555.89 32760555.98 32760556.07 0.0510 0.0371

Pluto 84983-06-01 01:12 G 32760614.42 32760614.55 32760614.72 0.0062 0.0033

Jupiter 84983-07-01 17:32 G 32760645.13 32760645.23 32760645.34 0.0508 0.0309

Pluto 84983-08-28 02:24 G 32760702.45 32760702.60 32760702.77 0.0062 0.0022

Pluto 84983-11-24 03:22 G 32760790.48 32760790.64 32760790.82 0.0062 0.0012

Pluto 84984-02-20 04:34 G 32760878.52 32760878.69 32760878.86 0.0062 0.0001

Mars 84984-03-19 19:56 G 32760907.24 32760907.33 32760907.41 0.1628 0.1094

Saturn 84984-05-12 04:05 G 32760960.55 32760960.67 32760960.79 0.0299 0.0214

Pluto 84984-05-18 05:32 G 32760966.56 32760966.73 32760966.90 0.0062 0.0009

Saturn 84984-08-09 04:05 G 32761049.50 32761049.67 32761049.85 0.0299 0.0011

Pluto 84984-08-14 06:15 G 32761054.61 32761054.76 32761054.93 0.0062 0.0020

Saturn 84984-11-06 03:36 G 32761138.52 32761138.65 32761138.79 0.0299 0.0193

Pluto 84984-11-10 07:12 G 32761142.66 32761142.80 32761142.96 0.0062 0.0031

Mars 84985-01-28 09:22 G 32761221.77 32761221.89 32761222.01 0.1908 0.1232

Pluto 84985-02-06 08:10 G 32761230.73 32761230.84 32761230.98 0.0062 0.0041

Pluto 84985-05-05 09:08 G 32761318.80 32761318.88 32761318.99 0.0062 0.0052

Pluto 84985-08-01 10:20 G 32761406.93 32761406.93 32761406.94 0.0063 0.0062

Jupiter 84989-08-29 22:05 G 32762896.25 32762896.42 32762896.59 0.0518 0.0081

Earth 84991-02-12 19:27 G 32763428.18 32763428.31 32763428.45 0.2708 0.0749

Moon 84991-02-12 20:24 G 32763428.20 32763428.35 32763428.49 0.2702 0.0564 *

Mars 84991-09-05 04:05 G 32763632.57 32763632.67 32763632.77 0.1612 0.0859

Mars 84993-08-10 06:58 G 32764337.68 32764337.79 32764337.89 0.1625 0.0696

Earth 84993-08-14 19:56 G 32764342.21 32764342.33 32764342.45 0.2625 0.0340

Moon 84993-08-14 20:10 G 32764342.22 32764342.34 32764342.46 0.2619 0.0420 *

Mars 84994-06-20 03:36 G 32764651.49 32764651.65 32764651.82 0.1914 0.0060

Jupiter 84995-04-19 22:05 G 32764955.29 32764955.42 32764955.55 0.0508 0.0149

Venus 84997-06-17 23:17 G 32765745.39 32765745.47 32765745.55 0.3628 0.2440

Saturn 84998-09-01 17:03 G 32766186.15 32766186.21 32766186.29 0.0262 0.0219

Saturn 84998-11-29 03:22 G 32766274.52 32766274.64 32766274.76 0.0262 0.0118

Uranus 84999-02-24 11:03 G 32766361.94 32766361.96 32766362.00 0.0144 0.0139

Saturn 84999-02-25 13:41 G 32766362.94 32766363.07 32766363.21 0.0262 0.0016

Uranus 84999-05-23 15:08 G 32766450.05 32766450.13 32766450.21 0.0144 0.0116

Saturn 84999-05-25 00:00 G 32766451.38 32766451.50 32766451.64 0.0262 0.0088

Uranus 84999-08-19 18:58 G 32766538.19 32766538.29 32766538.40 0.0144 0.0094

Saturn 84999-08-21 10:34 G 32766539.85 32766539.94 32766540.04 0.0262 0.0192

Uranus 84999-11-15 23:03 G 32766626.34 32766626.46 32766626.58 0.0144 0.0071

Uranus 85000-02-12 02:53 G 32766714.50 32766714.62 32766714.76 0.0144 0.0049

Uranus 85000-05-11 06:58 G 32766802.66 32766802.79 32766802.93 0.0144 0.0026

Uranus 85000-08-07 11:03 G 32766890.82 32766890.96 32766891.10 0.0144 0.0002

Uranus 85000-11-03 15:08 G 32766978.99 32766979.13 32766979.27 0.0144 0.0021

86TH MILLENNIUM CE

This is a list of transits of Mercury in the 86th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Mars 85001-01-26 15:36 G 32767063.07 32767063.15 32767063.22 0.1610 0.1220

Uranus 85001-01-30 19:12 G 32767067.17 32767067.30 32767067.43 0.0144 0.0044

Uranus 85001-04-28 23:03 G 32767155.35 32767155.46 32767155.59 0.0144 0.0068

Jupiter 85001-06-18 19:56 G 32767206.17 32767206.33 32767206.50 0.0518 0.0158

Uranus 85001-07-26 03:22 G 32767243.53 32767243.64 32767243.75 0.0144 0.0091

Uranus 85001-10-22 07:27 G 32767331.73 32767331.81 32767331.90 0.0144 0.0115

Uranus 85002-01-18 11:32 G 32767419.96 32767419.98 32767420.02 0.0144 0.0139

Mars 85003-01-01 18:00 G 32767768.13 32767768.25 32767768.37 0.1621 0.0307

Venus 85003-01-02 14:53 G 32767769.01 32767769.12 32767769.22 0.3628 0.0186

Mars 85003-11-10 21:22 G 32768081.26 32768081.39 32768081.52 0.1918 0.1177

Moon 85004-02-16 22:05 G 32768179.30 32768179.42 32768179.54 0.2701 0.1417

Earth 85004-02-16 22:20 G 32768179.32 32768179.43 32768179.55 0.2708 0.1523 *

Moon 85006-08-18 14:39 G 32769093.01 32769093.11 32769093.20 0.2619 0.1611

Earth 85006-08-18 15:08 G 32769093.04 32769093.13 32769093.21 0.2625 0.1709 *

Jupiter 85007-02-07 02:39 G 32769265.47 32769265.61 32769265.74 0.0509 0.0022

Venus 85008-07-18 06:29 G 32769792.69 32769792.77 32769792.85 0.3629 0.2184

Mars 85010-06-19 03:08 G 32770493.61 32770493.63 32770493.65 0.1608 0.1575

Mars 85012-05-24 05:17 G 32771198.60 32771198.72 32771198.84 0.1618 0.0076

Venus 85012-07-15 16:20 G 32771251.06 32771251.18 32771251.30 0.3744 0.2192

Jupiter 85013-04-06 18:29 G 32771516.16 32771516.27 32771516.39 0.0517 0.0385

Earth 85013-08-11 11:17 G 32771642.90 32771642.97 32771643.04 0.2626 0.2034

Moon 85013-08-11 12:00 G 32771642.93 32771643.00 32771643.08 0.2627 0.1999 *

Saturn 85013-12-27 22:48 G 32771781.29 32771781.45 32771781.62 0.0299 0.0099

Saturn 85014-03-26 22:48 G 32771870.28 32771870.45 32771870.61 0.0299 0.0105

Mars 85014-04-29 08:53 G 32771903.83 32771903.87 32771903.91 0.1632 0.1537

Jupiter 85018-11-26 06:00 G 32773575.63 32773575.75 32773575.87 0.0509 0.0196

Jupiter 85019-02-23 12:15 G 32773664.98 32773665.01 32773665.05 0.0507 0.0484

Mars 85021-10-14 16:34 G 32774629.08 32774629.19 32774629.31 0.1615 0.0452

Neptune 85022-12-31 02:24 G 32775071.57 32775071.60 32775071.66 0.0088 0.0083

Neptune 85023-03-29 03:51 G 32775159.60 32775159.66 32775159.74 0.0088 0.0076

Neptune 85023-06-25 05:32 G 32775247.65 32775247.73 32775247.82 0.0088 0.0068

Mars 85023-09-19 19:56 G 32775334.24 32775334.33 32775334.41 0.1628 0.1133

Neptune 85023-09-21 06:58 G 32775335.69 32775335.79 32775335.89 0.0088 0.0061

Neptune 85023-12-18 08:24 G 32775423.75 32775423.85 32775423.96 0.0088 0.0054

Earth 85024-02-11 22:20 G 32775479.41 32775479.43 32775479.46 0.2707 0.2653

Moon 85024-02-11 23:46 G 32775479.43 32775479.49 32775479.55 0.2704 0.2401 *

Neptune 85024-03-15 09:51 G 32775511.80 32775511.91 32775512.03 0.0088 0.0046

Neptune 85024-06-11 11:32 G 32775599.85 32775599.98 32775600.10 0.0088 0.0039

Mars 85024-07-30 10:20 G 32775648.81 32775648.93 32775649.04 0.1908 0.1322

Neptune 85024-09-07 12:44 G 32775687.91 32775688.03 32775688.17 0.0088 0.0032

Neptune 85024-12-04 14:24 G 32775775.97 32775776.10 32775776.24 0.0088 0.0024

Neptune 85025-03-02 15:51 G 32775864.03 32775864.16 32775864.30 0.0088 0.0017

Jupiter 85025-04-24 00:15 G 32775916.39 32775916.51 32775916.63 0.0519 0.0360

Neptune 85025-05-29 17:17 G 32775952.09 32775952.22 32775952.36 0.0088 0.0010

Neptune 85025-08-25 18:58 G 32776040.15 32776040.29 32776040.43 0.0088 0.0003

Neptune 85025-11-21 20:24 G 32776128.21 32776128.35 32776128.49 0.0088 0.0005

Neptune 85026-02-17 21:51 G 32776216.27 32776216.41 32776216.55 0.0088 0.0013

Neptune 85026-05-16 23:17 G 32776304.34 32776304.47 32776304.61 0.0088 0.0020

Neptune 85026-08-13 00:44 G 32776392.40 32776392.53 32776392.67 0.0088 0.0028

Earth 85026-08-14 06:00 G 32776393.64 32776393.75 32776393.87 0.2625 0.0728

Moon 85026-08-14 06:44 G 32776393.66 32776393.78 32776393.89 0.2620 0.0585 *

Neptune 85026-11-09 02:24 G 32776480.47 32776480.60 32776480.73 0.0088 0.0035

Neptune 85027-02-05 03:51 G 32776568.54 32776568.66 32776568.79 0.0088 0.0043

Neptune 85027-05-04 05:32 G 32776656.61 32776656.73 32776656.85 0.0088 0.0050

Neptune 85027-07-31 06:44 G 32776744.69 32776744.78 32776744.90 0.0088 0.0058

Neptune 85027-10-27 08:39 G 32776832.76 32776832.86 32776832.95 0.0088 0.0065

Saturn 85028-01-20 19:56 G 32776918.29 32776918.33 32776918.37 0.0262 0.0248

Neptune 85028-01-23 09:51 G 32776920.85 32776920.91 32776921.00 0.0088 0.0073

Saturn 85028-04-18 06:00 G 32777006.64 32777006.75 32777006.87 0.0262 0.0148

Neptune 85028-04-20 11:17 G 32777008.93 32777008.97 32777009.04 0.0088 0.0081

Saturn 85028-07-15 16:20 G 32777095.05 32777095.18 32777095.32 0.0262 0.0046

Saturn 85028-10-12 02:53 G 32777183.48 32777183.62 32777183.75 0.0262 0.0058

Saturn 85029-01-08 13:12 G 32777271.95 32777272.05 32777272.16 0.0262 0.0162

Jupiter 85030-09-14 10:20 G 32777885.84 32777885.93 32777886.02 0.0510 0.0363

Jupiter 85030-12-12 16:20 G 32777975.08 32777975.18 32777975.29 0.0507 0.0317

Mars 85031-03-07 04:05 G 32778059.57 32778059.67 32778059.77 0.1612 0.0821

Mars 85033-02-09 06:58 G 32778764.68 32778764.79 32778764.89 0.1625 0.0736

Mars 85033-12-20 04:20 G 32779078.52 32779078.68 32779078.85 0.1913 0.0140

Jupiter 85037-02-09 21:36 G 32780226.23 32780226.40 32780226.57 0.0518 0.0111

Earth 85037-02-14 01:41 G 32780230.43 32780230.57 32780230.71 0.2708 0.0307

Moon 85037-02-14 02:10 G 32780230.45 32780230.59 32780230.73 0.2701 0.0338 *

Earth 85039-08-17 00:58 G 32781144.42 32781144.54 32781144.65 0.2625 0.0611

Moon 85039-08-17 00:58 G 32781144.43 32781144.54 32781144.66 0.2619 0.0570 *

Mars 85040-07-27 15:36 G 32781490.07 32781490.15 32781490.22 0.1610 0.1186

Uranus 85041-03-15 13:12 G 32781720.98 32781721.05 32781721.14 0.0134 0.0121

Uranus 85041-06-11 19:41 G 32781809.20 32781809.32 32781809.45 0.0134 0.0096

Uranus 85041-09-08 01:56 G 32781897.44 32781897.58 32781897.74 0.0134 0.0071

Uranus 85041-12-05 08:24 G 32781985.68 32781985.85 32781986.02 0.0134 0.0046

Uranus 85042-03-03 14:39 G 32782073.94 32782074.11 32782074.29 0.0134 0.0022

Uranus 85042-05-30 20:53 G 32782162.19 32782162.37 32782162.55 0.0134 0.0004

Mars 85042-07-02 18:00 G 32782195.14 32782195.25 32782195.37 0.1621 0.0345

Uranus 85042-08-27 03:08 G 32782250.45 32782250.63 32782250.81 0.0134 0.0027

Jupiter 85042-09-30 20:53 G 32782285.24 32782285.37 32782285.49 0.0508 0.0156

Uranus 85042-11-23 09:08 G 32782338.72 32782338.88 32782339.05 0.0134 0.0051

Uranus 85043-02-19 15:08 G 32782426.99 32782427.13 32782427.29 0.0134 0.0075

Mars 85043-05-11 21:51 G 32782508.28 32782508.41 32782508.54 0.1918 0.1104

Saturn 85043-05-16 20:53 G 32782513.22 32782513.37 32782513.52 0.0299 0.0164

Uranus 85043-05-18 21:08 G 32782515.27 32782515.38 32782515.51 0.0134 0.0099

Saturn 85043-08-13 20:53 G 32782602.19 32782602.37 32782602.54 0.0300 0.0042

Uranus 85043-08-15 03:22 G 32782603.57 32782603.64 32782603.71 0.0134 0.0122

Saturn 85043-11-10 20:24 G 32782691.25 32782691.35 32782691.45 0.0300 0.0242

Jupiter 85048-11-28 19:27 G 32784536.14 32784536.31 32784536.48 0.0518 0.0131

Mars 85049-12-18 03:08 G 32784920.60 32784920.63 32784920.66 0.1608 0.1538

Moon 85050-02-17 04:05 G 32784981.57 32784981.67 32784981.76 0.2701 0.1981

Earth 85050-02-17 04:20 G 32784981.58 32784981.68 32784981.78 0.2708 0.1936 *

Mars 85051-11-23 05:17 G 32785625.60 32785625.72 32785625.83 0.1618 0.0072

Moon 85052-08-18 19:27 G 32785895.23 32785895.31 32785895.39 0.2619 0.1953

Earth 85052-08-18 19:56 G 32785895.26 32785895.33 32785895.41 0.2625 0.1981 *

Mars 85053-10-28 08:53 G 32786330.84 32786330.87 32786330.90 0.1632 0.1572

Venus 85054-01-23 20:39 G 32786418.27 32786418.36 32786418.46 0.3628 0.1590

Jupiter 85054-07-20 01:27 G 32786595.42 32786595.56 32786595.69 0.0509 0.0010

Saturn 85057-09-05 07:56 G 32787738.74 32787738.83 32787738.93 0.0262 0.0184

Saturn 85057-12-02 18:15 G 32787827.13 32787827.26 32787827.39 0.0262 0.0083

Saturn 85058-03-01 04:34 G 32787915.56 32787915.69 32787915.83 0.0262 0.0020

Saturn 85058-05-28 15:08 G 32788004.01 32788004.13 32788004.25 0.0261 0.0123

Saturn 85058-08-25 01:27 G 32788092.50 32788092.56 32788092.64 0.0261 0.0228

Venus 85059-08-09 12:15 G 32788441.91 32788442.01 32788442.11 0.3628 0.0715

Earth 85059-08-12 16:20 G 32788445.09 32788445.18 32788445.26 0.2625 0.1777

Moon 85059-08-12 17:03 G 32788445.12 32788445.21 32788445.30 0.2625 0.1647 *

Jupiter 85060-09-16 17:17 G 32788846.10 32788846.22 32788846.34 0.0517 0.0372

Mars 85061-04-14 16:34 G 32789056.08 32789056.19 32789056.31 0.1615 0.0413

Mars 85063-03-20 19:41 G 32789761.24 32789761.32 32789761.40 0.1628 0.1166

Mars 85064-01-29 11:17 G 32790075.86 32790075.97 32790076.07 0.1908 0.1412

Venus 85065-02-22 03:51 G 32790465.61 32790465.66 32790465.72 0.3628 0.3063

Jupiter 85066-05-08 05:46 G 32790905.62 32790905.74 32790905.87 0.0509 0.0165

Venus 85069-02-19 18:00 G 32791924.10 32791924.25 32791924.40 0.3744 0.0327

Earth 85070-02-12 04:34 G 32792281.61 32792281.69 32792281.77 0.2707 0.2210

Moon 85070-02-12 05:46 G 32792281.65 32792281.74 32792281.83 0.2704 0.2113 *

Mars 85070-09-05 04:05 G 32792486.57 32792486.67 32792486.77 0.1612 0.0783

Mars 85072-08-10 06:58 G 32793191.68 32793191.79 32793191.89 0.1625 0.0774

Earth 85072-08-14 11:03 G 32793195.84 32793195.96 32793196.08 0.2625 0.0463

Moon 85072-08-14 11:32 G 32793195.87 32793195.98 32793196.10 0.2620 0.0464 *

Saturn 85072-10-02 15:36 G 32793245.05 32793245.15 32793245.24 0.0299 0.0253

Jupiter 85072-10-03 23:17 G 32793246.35 32793246.47 32793246.58 0.0519 0.0381

Saturn 85072-12-30 15:36 G 32793333.98 32793334.15 32793334.33 0.0299 0.0048

Saturn 85073-03-29 15:22 G 32793422.99 32793423.14 32793423.29 0.0299 0.0156

Mars 85073-06-20 05:17 G 32793505.55 32793505.72 32793505.88 0.1913 0.0225

Pluto 85074-07-19 21:36 G 32793900.40 32793900.40 32793900.40 0.0082 0.0082

Pluto 85074-10-15 23:03 G 32793988.37 32793988.46 32793988.56 0.0082 0.0061

Pluto 85075-01-12 00:15 G 32794076.39 32794076.51 32794076.65 0.0082 0.0041

Pluto 85075-04-10 01:41 G 32794164.44 32794164.57 32794164.72 0.0082 0.0021

Pluto 85075-07-07 03:22 G 32794252.49 32794252.64 32794252.79 0.0082 0.0000

Pluto 85075-10-03 04:48 G 32794340.56 32794340.70 32794340.84 0.0081 0.0020

Pluto 85075-12-30 06:15 G 32794428.63 32794428.76 32794428.89 0.0081 0.0041

Pluto 85076-03-27 07:12 G 32794516.72 32794516.80 32794516.91 0.0081 0.0062

Pluto 85076-06-23 09:08 G 32794604.88 32794604.88 32794604.88 0.0081 0.0081

Jupiter 85078-02-24 09:22 G 32795215.79 32795215.89 32795215.99 0.0510 0.0347

Jupiter 85078-05-24 15:22 G 32795305.04 32795305.14 32795305.24 0.0507 0.0332

Mars 85080-01-26 15:22 G 32795917.06 32795917.14 32795917.23 0.1610 0.1146

Mars 85081-12-31 18:00 G 32796622.13 32796622.25 32796622.37 0.1621 0.0382

Mars 85082-11-09 22:48 G 32796935.31 32796935.45 32796935.59 0.1918 0.1009

Earth 85083-02-15 07:41 G 32797032.68 32797032.82 32797032.96 0.2708 0.0116

Moon 85083-02-15 07:56 G 32797032.69 32797032.83 32797032.98 0.2701 0.0237 *

Uranus 85083-03-17 18:15 G 32797063.21 32797063.26 32797063.30 0.0144 0.0134

Uranus 85083-06-13 22:05 G 32797151.34 32797151.42 32797151.51 0.0144 0.0112

Uranus 85083-09-10 01:56 G 32797239.48 32797239.58 32797239.69 0.0144 0.0090

Uranus 85083-12-07 05:46 G 32797327.63 32797327.74 32797327.87 0.0144 0.0067

Uranus 85084-03-04 09:51 G 32797415.78 32797415.91 32797416.05 0.0144 0.0044

Uranus 85084-05-31 13:56 G 32797503.94 32797504.08 32797504.22 0.0144 0.0021

Jupiter 85084-07-22 21:36 G 32797556.24 32797556.40 32797556.57 0.0518 0.0150

Uranus 85084-08-27 18:00 G 32797592.11 32797592.25 32797592.39 0.0144 0.0003

Uranus 85084-11-23 22:05 G 32797680.28 32797680.42 32797680.55 0.0144 0.0026

Uranus 85085-02-20 01:56 G 32797768.46 32797768.58 32797768.72 0.0144 0.0049

Uranus 85085-05-19 06:00 G 32797856.64 32797856.75 32797856.88 0.0144 0.0072

Uranus 85085-08-15 10:05 G 32797944.82 32797944.92 32797945.03 0.0144 0.0096

Moon 85085-08-17 05:46 G 32797946.63 32797946.74 32797946.85 0.2619 0.0931

Earth 85085-08-17 06:00 G 32797946.64 32797946.75 32797946.86 0.2625 0.0882 *

Uranus 85085-11-11 14:24 G 32798033.03 32798033.10 32798033.18 0.0144 0.0119

Uranus 85086-02-07 18:29 G 32798121.27 32798121.27 32798121.29 0.0144 0.0143

Saturn 85087-01-23 10:34 G 32798470.87 32798470.94 32798471.02 0.0262 0.0214

Saturn 85087-04-21 20:53 G 32798559.25 32798559.37 32798559.50 0.0262 0.0113

Saturn 85087-07-19 07:12 G 32798647.67 32798647.80 32798647.94 0.0262 0.0012

Saturn 85087-10-15 17:46 G 32798736.11 32798736.24 32798736.37 0.0262 0.0093

Saturn 85088-01-12 04:20 G 32798824.59 32798824.68 32798824.77 0.0262 0.0197

Mars 85089-06-18 03:08 G 32799347.59 32799347.63 32799347.67 0.1607 0.1501

Jupiter 85090-03-12 19:27 G 32799615.19 32799615.31 32799615.44 0.0508 0.0164

Mars 85091-05-24 05:17 G 32800052.60 32800052.72 32800052.84 0.1618 0.0025

Mars 85093-04-28 08:53 G 32800757.86 32800757.87 32800757.89 0.1632 0.1611

Moon 85096-02-18 09:51 G 32801783.83 32801783.91 32801783.99 0.2702 0.2197

Earth 85096-02-18 10:20 G 32801783.86 32801783.93 32801784.00 0.2708 0.2354 *

Jupiter 85096-05-10 18:58 G 32801866.12 32801866.29 32801866.46 0.0517 0.0101

Moon 85098-08-20 00:29 G 32802697.46 32802697.52 32802697.59 0.2620 0.2128

Earth 85098-08-20 01:12 G 32802697.49 32802697.55 32802697.60 0.2625 0.2260 *

Mars 85100-10-14 16:34 G 32803483.08 32803483.19 32803483.30 0.1615 0.0378

Jupiter 85101-12-31 00:00 G 32803925.36 32803925.50 32803925.63 0.0509 0.0009

Saturn 85102-05-20 13:41 G 32804065.90 32804066.07 32804066.24 0.0299 0.0111

Saturn 85102-08-17 13:27 G 32804154.90 32804155.06 32804155.23 0.0300 0.0094

Mars 85102-09-19 19:56 G 32804188.25 32804188.33 32804188.40 0.1628 0.1208

Saturn 85102-11-14 12:58 G 32804244.01 32804244.04 32804244.08 0.0300 0.0293

Mars 85103-07-31 11:32 G 32804502.88 32804502.98 32804503.08 0.1908 0.1478

Venus 85105-02-15 02:39 G 32805067.55 32805067.61 32805067.67 0.3628 0.2999

Earth 85105-08-13 21:08 G 32805247.29 32805247.38 32805247.48 0.2625 0.1522

Moon 85105-08-13 21:51 G 32805247.32 32805247.41 32805247.51 0.2623 0.1440 *

Neptune 85105-12-30 04:05 G 32805385.66 32805385.67 32805385.69 0.0090 0.0089

Neptune 85106-03-28 06:58 G 32805473.72 32805473.79 32805473.89 0.0090 0.0079

Neptune 85106-06-24 10:34 G 32805561.82 32805561.94 32805562.06 0.0090 0.0068

Neptune 85106-09-20 13:27 G 32805649.93 32805650.06 32805650.21 0.0090 0.0058

Neptune 85106-12-17 16:34 G 32805738.05 32805738.19 32805738.36 0.0090 0.0048

Neptune 85107-03-15 19:56 G 32805826.17 32805826.33 32805826.50 0.0090 0.0037

Neptune 85107-06-11 23:03 G 32805914.29 32805914.46 32805914.64 0.0090 0.0027

Neptune 85107-09-08 02:10 G 32806002.42 32806002.59 32806002.77 0.0090 0.0017

Neptune 85107-12-05 05:17 G 32806090.54 32806090.72 32806090.90 0.0090 0.0006

Jupiter 85108-02-28 16:20 G 32806176.06 32806176.18 32806176.32 0.0517 0.0346

Neptune 85108-03-02 08:24 G 32806178.67 32806178.85 32806179.03 0.0090 0.0004

Neptune 85108-05-29 11:32 G 32806266.80 32806266.98 32806267.16 0.0090 0.0014

Neptune 85108-08-25 14:24 G 32806354.93 32806355.10 32806355.28 0.0090 0.0025

Neptune 85108-11-21 17:17 G 32806443.07 32806443.22 32806443.40 0.0090 0.0035

Neptune 85109-02-17 20:24 G 32806531.21 32806531.35 32806531.52 0.0090 0.0045

Neptune 85109-05-16 23:17 G 32806619.35 32806619.47 32806619.63 0.0090 0.0055

Neptune 85109-08-13 02:24 G 32806707.49 32806707.60 32806707.74 0.0090 0.0065

Neptune 85109-11-09 05:17 G 32806795.64 32806795.72 32806795.83 0.0090 0.0075

Neptune 85110-02-05 08:39 G 32806883.80 32806883.86 32806883.92 0.0090 0.0084

Mars 85110-03-07 03:51 G 32806913.56 32806913.66 32806913.77 0.1612 0.0748

Venus 85110-08-31 18:00 G 32807091.15 32807091.25 32807091.36 0.3628 0.0748

Mars 85112-02-10 06:44 G 32807618.68 32807618.78 32807618.89 0.1624 0.0807

Mars 85112-12-20 06:00 G 32807932.59 32807932.75 32807932.91 0.1914 0.0302

Jupiter 85113-10-19 04:34 G 32808235.56 32808235.69 32808235.81 0.0509 0.0157

Earth 85116-02-14 10:48 G 32809083.84 32809083.95 32809084.05 0.2707 0.1769

Moon 85116-02-14 11:46 G 32809083.87 32809083.99 32809084.11 0.2703 0.1613 *

Venus 85116-03-16 09:36 G 32809114.81 32809114.90 32809115.00 0.3628 0.1590

Saturn 85116-06-12 12:58 G 32809203.00 32809203.04 32809203.08 0.0262 0.0248

Saturn 85116-09-08 23:03 G 32809291.35 32809291.46 32809291.57 0.0262 0.0148

Saturn 85116-12-06 09:22 G 32809379.75 32809379.89 32809380.02 0.0262 0.0046

Saturn 85117-03-04 19:41 G 32809468.19 32809468.32 32809468.46 0.0262 0.0057

Saturn 85117-06-01 06:15 G 32809556.65 32809556.76 32809556.87 0.0261 0.0160

Earth 85118-08-16 16:05 G 32809998.05 32809998.17 32809998.28 0.2625 0.0209

Moon 85118-08-16 16:34 G 32809998.07 32809998.19 32809998.31 0.2620 0.0104 *

Mars 85119-07-28 15:22 G 32810344.06 32810344.14 32810344.23 0.1610 0.1108

Jupiter 85120-03-16 21:36 G 32810576.29 32810576.40 32810576.51 0.0519 0.0392

Mars 85121-07-02 18:00 G 32811049.14 32811049.25 32811049.36 0.1621 0.0421

Mars 85122-05-11 23:46 G 32811362.35 32811362.49 32811362.64 0.1918 0.0910

Uranus 85125-04-05 20:39 G 32812422.27 32812422.36 32812422.46 0.0134 0.0112

Uranus 85125-07-03 03:08 G 32812510.49 32812510.63 32812510.77 0.0134 0.0087

Jupiter 85125-08-07 08:53 G 32812545.77 32812545.87 32812545.98 0.0510 0.0319

Venus 85125-09-27 19:41 G 32812597.22 32812597.32 32812597.41 0.3744 0.2805

Uranus 85125-09-29 09:08 G 32812598.73 32812598.88 32812599.06 0.0134 0.0064

Jupiter 85125-11-04 15:08 G 32812635.04 32812635.13 32812635.22 0.0507 0.0361

Uranus 85125-12-26 15:36 G 32812686.98 32812687.15 32812687.33 0.0134 0.0038

Uranus 85126-03-24 22:05 G 32812775.24 32812775.42 32812775.60 0.0134 0.0013

Uranus 85126-06-21 04:20 G 32812863.50 32812863.68 32812863.86 0.0134 0.0011

Uranus 85126-09-17 10:20 G 32812951.76 32812951.93 32812952.11 0.0134 0.0035

Uranus 85126-12-14 16:34 G 32813040.03 32813040.19 32813040.35 0.0134 0.0059

Uranus 85127-03-12 22:34 G 32813128.31 32813128.44 32813128.59 0.0134 0.0083

Uranus 85127-06-09 04:34 G 32813216.59 32813216.69 32813216.81 0.0134 0.0107

Uranus 85127-09-05 10:34 G 32813304.91 32813304.94 32813304.99 0.0134 0.0131

Mars 85128-12-18 03:08 G 32813774.58 32813774.63 32813774.67 0.1607 0.1464

Earth 85129-02-16 13:41 G 32813834.93 32813835.07 32813835.21 0.2708 0.0546

Moon 85129-02-16 13:56 G 32813834.94 32813835.08 32813835.23 0.2701 0.0504 *

Mars 85130-11-23 05:17 G 32814479.60 32814479.72 32814479.83 0.1618 0.0060

Moon 85131-08-19 10:48 G 32814748.84 32814748.95 32814749.06 0.2618 0.1059

Earth 85131-08-19 11:03 G 32814748.85 32814748.96 32814749.06 0.2625 0.1155 *

Saturn 85131-10-07 08:24 G 32814797.73 32814797.85 32814797.99 0.0299 0.0199

Jupiter 85132-01-03 20:24 G 32814886.19 32814886.35 32814886.52 0.0519 0.0167

Saturn 85132-01-04 08:39 G 32814886.69 32814886.86 32814887.04 0.0299 0.0009

Saturn 85132-04-02 08:10 G 32814975.72 32814975.84 32814975.97 0.0299 0.0209

Jupiter 85137-05-26 12:44 G 32816856.00 32816856.03 32816856.05 0.0511 0.0499

Jupiter 85137-08-23 18:29 G 32816945.15 32816945.27 32816945.40 0.0508 0.0177

Earth 85138-08-12 07:27 G 32817298.79 32817298.81 32817298.83 0.2626 0.2556

Moon 85138-08-12 08:10 G 32817298.80 32817298.84 32817298.88 0.2629 0.2445 *

Mars 85140-04-14 16:34 G 32817910.07 32817910.19 32817910.30 0.1615 0.0339

Mars 85142-03-20 19:41 G 32818615.25 32818615.32 32818615.40 0.1628 0.1244

Mars 85143-01-29 12:29 G 32818929.93 32818930.02 32818930.11 0.1908 0.1563

Jupiter 85143-10-22 18:44 G 32819196.11 32819196.28 32819196.45 0.0518 0.0066

Moon 85144-08-21 05:32 G 32819499.70 32819499.73 32819499.76 0.2621 0.2511

Earth 85144-08-21 06:15 G 32819499.73 32819499.76 32819499.78 0.2625 0.2535 *

Saturn 85146-01-27 01:41 G 32820023.47 32820023.57 32820023.67 0.0262 0.0178

Saturn 85146-04-25 12:00 G 32820111.87 32820112.00 32820112.13 0.0262 0.0077

Saturn 85146-07-22 22:20 G 32820200.29 32820200.43 32820200.57 0.0262 0.0026

Saturn 85146-10-19 08:53 G 32820288.75 32820288.87 32820288.98 0.0262 0.0130

Saturn 85147-01-15 19:12 G 32820377.25 32820377.30 32820377.37 0.0262 0.0235

Jupiter 85149-06-11 22:34 G 32821255.31 32821255.44 32821255.58 0.0509 0.0016

Mars 85149-09-05 03:51 G 32821340.56 32821340.66 32821340.77 0.1612 0.0711

Mars 85151-08-11 06:58 G 32822045.69 32822045.79 32822045.89 0.1625 0.0850

Earth 85151-08-15 02:10 G 32822049.49 32822049.59 32822049.69 0.2625 0.1260

Moon 85151-08-15 02:53 G 32822049.52 32822049.62 32822049.73 0.2622 0.1171 *

Mars 85152-06-20 06:58 G 32822359.63 32822359.79 32822359.95 0.1913 0.0395

Jupiter 85155-08-10 15:51 G 32823506.02 32823506.16 32823506.30 0.0517 0.0318

Mars 85159-01-26 15:22 G 32824771.05 32824771.14 32824771.23 0.1610 0.1073

Mars 85160-12-31 18:00 G 32825476.13 32825476.25 32825476.36 0.1621 0.0457

Saturn 85161-02-23 06:58 G 32825529.71 32825529.79 32825529.89 0.0299 0.0259

Jupiter 85161-03-31 03:08 G 32825565.50 32825565.63 32825565.75 0.0510 0.0154

Saturn 85161-05-23 07:27 G 32825618.63 32825618.81 32825618.98 0.0300 0.0051

Saturn 85161-08-20 07:12 G 32825707.65 32825707.80 32825707.95 0.0300 0.0152

Venus 85161-09-22 00:00 G 32825740.42 32825740.50 32825740.58 0.3628 0.2157

Mars 85161-11-10 00:15 G 32825789.36 32825789.51 32825789.66 0.1918 0.0845

Earth 85162-02-14 16:48 G 32825886.08 32825886.20 32825886.32 0.2708 0.1331

Moon 85162-02-14 17:32 G 32825886.11 32825886.23 32825886.36 0.2702 0.1211 *

Earth 85164-08-16 20:53 G 32826800.26 32826800.37 32826800.49 0.2625 0.0099

Moon 85164-08-16 21:22 G 32826800.27 32826800.39 32826800.51 0.2619 0.0100 *

Venus 85167-04-07 15:36 G 32827764.04 32827764.15 32827764.25 0.3628 0.0162

Uranus 85167-04-08 01:12 G 32827764.50 32827764.55 32827764.61 0.0144 0.0129

Uranus 85167-07-05 05:03 G 32827852.63 32827852.71 32827852.80 0.0144 0.0107

Jupiter 85167-08-27 20:39 G 32827906.26 32827906.36 32827906.47 0.0519 0.0414

Uranus 85167-10-01 08:53 G 32827940.77 32827940.87 32827940.99 0.0144 0.0085

Uranus 85167-12-28 12:58 G 32828028.92 32828029.04 32828029.17 0.0144 0.0062

Uranus 85168-03-25 17:03 G 32828117.07 32828117.21 32828117.34 0.0144 0.0039

Mars 85168-06-18 02:53 G 32828201.57 32828201.62 32828201.68 0.1607 0.1428

Uranus 85168-06-21 20:53 G 32828205.24 32828205.37 32828205.51 0.0144 0.0016

Uranus 85168-09-18 00:58 G 32828293.40 32828293.54 32828293.68 0.0144 0.0007

Uranus 85168-12-15 05:03 G 32828381.57 32828381.71 32828381.84 0.0144 0.0030

Uranus 85169-03-13 08:53 G 32828469.75 32828469.87 32828470.01 0.0144 0.0054

Uranus 85169-06-09 12:58 G 32828557.93 32828558.04 32828558.17 0.0144 0.0077

Uranus 85169-09-05 17:03 G 32828646.12 32828646.21 32828646.32 0.0144 0.0101

Uranus 85169-12-02 21:22 G 32828734.32 32828734.39 32828734.46 0.0144 0.0124

Mars 85170-05-24 05:03 G 32828906.59 32828906.71 32828906.83 0.1618 0.0083

Venus 85172-10-21 07:12 G 32829787.72 32829787.80 32829787.87 0.3628 0.2454

Jupiter 85173-01-17 07:41 G 32829875.72 32829875.82 32829875.92 0.0510 0.0313

Jupiter 85173-04-16 13:41 G 32829964.98 32829965.07 32829965.16 0.0507 0.0367

Earth 85175-02-17 19:41 G 32830637.19 32830637.32 32830637.46 0.2708 0.0970

Moon 85175-02-17 19:56 G 32830637.20 32830637.33 32830637.46 0.2701 0.1028 *

Saturn 85175-06-16 04:05 G 32830755.59 32830755.67 32830755.75 0.0262 0.0210

Saturn 85175-09-12 14:10 G 32830843.97 32830844.09 32830844.22 0.0262 0.0110

Saturn 85175-12-10 00:29 G 32830932.39 32830932.52 32830932.66 0.0262 0.0011

Saturn 85176-03-07 11:03 G 32831020.83 32831020.96 32831021.09 0.0262 0.0096

Saturn 85176-06-03 21:22 G 32831109.31 32831109.39 32831109.49 0.0261 0.0201

Venus 85176-10-18 13:27 G 32831245.95 32831246.06 32831246.18 0.3745 0.2267

Moon 85177-08-19 15:51 G 32831551.06 32831551.16 32831551.25 0.2618 0.1450

Earth 85177-08-19 16:05 G 32831551.07 32831551.17 32831551.27 0.2625 0.1426 *

Jupiter 85179-06-15 18:44 G 32832216.11 32832216.28 32832216.44 0.0518 0.0174

Mars 85179-10-14 16:34 G 32832337.07 32832337.19 32832337.31 0.1615 0.0300

Mars 85181-09-18 19:41 G 32833042.25 32833042.32 32833042.39 0.1628 0.1281

Mars 85182-07-30 13:27 G 32833356.99 32833357.06 32833357.14 0.1908 0.1657

Earth 85184-08-12 12:29 G 32834100.96 32834101.02 32834101.07 0.2626 0.2303

Moon 85184-08-12 13:12 G 32834100.99 32834101.05 32834101.11 0.2627 0.2267 *

Jupiter 85184-11-05 12:15 G 32834185.96 32834186.01 32834186.05 0.0511 0.0474

Jupiter 85185-02-02 18:00 G 32834275.13 32834275.25 32834275.38 0.0508 0.0204

Neptune 85187-07-02 00:15 G 32835154.51 32835154.51 32835154.55 0.0088 0.0087

Neptune 85187-09-28 02:10 G 32835242.53 32835242.59 32835242.64 0.0088 0.0079

Neptune 85187-12-25 03:22 G 32835330.57 32835330.64 32835330.73 0.0088 0.0072

Neptune 85188-03-22 04:48 G 32835418.62 32835418.70 32835418.80 0.0088 0.0065

Neptune 85188-06-18 06:15 G 32835506.67 32835506.76 32835506.87 0.0088 0.0058

Neptune 85188-09-14 07:41 G 32835594.72 32835594.82 32835594.94 0.0088 0.0051

Neptune 85188-12-11 09:22 G 32835682.77 32835682.89 32835683.01 0.0088 0.0043

Mars 85189-03-06 03:51 G 32835767.56 32835767.66 32835767.77 0.1612 0.0672

Neptune 85189-03-09 10:48 G 32835770.83 32835770.95 32835771.08 0.0088 0.0036

Neptune 85189-06-05 12:15 G 32835858.88 32835859.01 32835859.15 0.0088 0.0028

Neptune 85189-09-01 13:56 G 32835946.94 32835947.08 32835947.21 0.0088 0.0021

Neptune 85189-11-28 15:22 G 32836035.00 32836035.14 32836035.28 0.0088 0.0014

Neptune 85190-02-24 16:48 G 32836123.06 32836123.20 32836123.34 0.0088 0.0006

Neptune 85190-05-23 18:15 G 32836211.12 32836211.26 32836211.40 0.0088 0.0002

Neptune 85190-08-19 19:41 G 32836299.18 32836299.32 32836299.46 0.0088 0.0009

Saturn 85190-10-10 02:39 G 32836350.46 32836350.61 32836350.78 0.0299 0.0136

Neptune 85190-11-15 21:22 G 32836387.25 32836387.39 32836387.53 0.0088 0.0016

Saturn 85191-01-07 02:53 G 32836439.44 32836439.62 32836439.79 0.0299 0.0069

Mars 85191-02-09 06:58 G 32836472.69 32836472.79 32836472.88 0.1625 0.0887

Neptune 85191-02-11 22:34 G 32836475.31 32836475.44 32836475.59 0.0088 0.0024

Jupiter 85191-04-03 17:17 G 32836526.04 32836526.22 32836526.39 0.0518 0.0054

Saturn 85191-04-06 02:10 G 32836528.52 32836528.59 32836528.67 0.0299 0.0269

Neptune 85191-05-11 00:15 G 32836563.38 32836563.51 32836563.64 0.0088 0.0031

Neptune 85191-08-07 01:41 G 32836651.45 32836651.57 32836651.70 0.0088 0.0039

Neptune 85191-11-03 03:22 G 32836739.52 32836739.64 32836739.76 0.0088 0.0046

Mars 85191-12-20 07:27 G 32836786.65 32836786.81 32836786.97 0.1913 0.0472

Neptune 85192-01-30 04:34 G 32836827.59 32836827.69 32836827.81 0.0088 0.0054

Neptune 85192-04-27 06:15 G 32836915.67 32836915.76 32836915.87 0.0088 0.0061

Neptune 85192-07-24 07:41 G 32837003.74 32837003.82 32837003.92 0.0088 0.0069

Neptune 85192-10-20 09:22 G 32837091.83 32837091.89 32837091.96 0.0088 0.0076

Neptune 85193-01-16 10:48 G 32837179.92 32837179.95 32837180.00 0.0088 0.0084

Jupiter 85196-11-21 21:36 G 32838585.27 32838585.40 32838585.53 0.0508 0.0021

Earth 85197-08-15 07:12 G 32838851.69 32838851.80 32838851.90 0.2625 0.1001

Moon 85197-08-15 07:56 G 32838851.72 32838851.83 32838851.94 0.2622 0.0888 *

Mars 85198-07-27 15:22 G 32839198.05 32839198.14 32839198.23 0.1610 0.1032

Mars 85200-07-01 18:00 G 32839903.14 32839903.25 32839903.36 0.1621 0.0496

Mars 85201-05-11 01:27 G 32840216.41 32840216.56 32840216.71 0.1918 0.0741

Jupiter 85203-01-20 15:22 G 32840835.99 32840836.14 32840836.28 0.0517 0.0289

Saturn 85204-11-02 06:44 G 32841487.73 32841487.78 32841487.83 0.0263 0.0241

Saturn 85205-01-29 17:03 G 32841576.09 32841576.21 32841576.32 0.0262 0.0140

Saturn 85205-04-28 03:08 G 32841664.50 32841664.63 32841664.77 0.0262 0.0038

Saturn 85205-07-25 13:41 G 32841752.94 32841753.07 32841753.20 0.0262 0.0066

Saturn 85205-10-22 00:00 G 32841841.40 32841841.50 32841841.61 0.0262 0.0171

Mars 85207-12-18 02:53 G 32842628.57 32842628.62 32842628.68 0.1607 0.1391

Earth 85208-02-15 23:03 G 32842688.32 32842688.46 32842688.59 0.2708 0.0890

Moon 85208-02-15 23:46 G 32842688.35 32842688.49 32842688.63 0.2701 0.0842 *

Jupiter 85208-09-10 01:41 G 32842895.44 32842895.57 32842895.69 0.0509 0.0149

Uranus 85209-01-27 20:53 G 32843035.35 32843035.37 32843035.42 0.0134 0.0131

Uranus 85209-04-26 03:22 G 32843123.54 32843123.64 32843123.76 0.0134 0.0106

Uranus 85209-07-23 09:51 G 32843211.78 32843211.91 32843212.06 0.0134 0.0081

Uranus 85209-10-19 16:20 G 32843300.02 32843300.18 32843300.35 0.0134 0.0056

Mars 85209-11-22 05:03 G 32843333.60 32843333.71 32843333.83 0.1618 0.0129

Uranus 85210-01-15 22:48 G 32843388.27 32843388.45 32843388.62 0.0134 0.0031

Uranus 85210-04-14 05:03 G 32843476.53 32843476.71 32843476.89 0.0134 0.0007

Uranus 85210-07-11 11:17 G 32843564.79 32843564.97 32843565.15 0.0134 0.0018

Moon 85210-08-18 02:10 G 32843602.47 32843602.59 32843602.71 0.2618 0.0357

Earth 85210-08-18 01:56 G 32843602.47 32843602.58 32843602.70 0.2625 0.0339 *

Uranus 85210-10-07 17:17 G 32843653.06 32843653.22 32843653.40 0.0134 0.0042

Uranus 85211-01-03 23:32 G 32843741.33 32843741.48 32843741.64 0.0134 0.0066

Uranus 85211-04-02 05:32 G 32843829.61 32843829.73 32843829.87 0.0134 0.0090

Uranus 85211-06-29 11:32 G 32843917.90 32843917.98 32843918.09 0.0134 0.0114

Venus 85212-10-13 06:00 G 32844389.73 32844389.75 32844389.76 0.3628 0.3564

Jupiter 85215-02-06 19:41 G 32845236.23 32845236.32 32845236.42 0.0519 0.0435

Venus 85218-04-28 21:22 G 32846413.29 32846413.39 32846413.49 0.3628 0.1320

Mars 85219-04-14 16:34 G 32846764.07 32846764.19 32846764.30 0.1615 0.0268

Saturn 85220-02-27 01:41 G 32847082.44 32847082.57 32847082.71 0.0299 0.0191

Saturn 85220-05-26 01:56 G 32847171.41 32847171.58 32847171.76 0.0299 0.0016

Jupiter 85220-06-29 06:00 G 32847205.65 32847205.75 32847205.85 0.0510 0.0313

Saturn 85220-08-23 01:27 G 32847260.45 32847260.56 32847260.69 0.0300 0.0217

Jupiter 85220-09-26 12:00 G 32847294.91 32847295.00 32847295.09 0.0507 0.0367

Moon 85221-02-18 01:41 G 32847439.44 32847439.57 32847439.69 0.2702 0.1357

Earth 85221-02-18 01:41 G 32847439.45 32847439.57 32847439.70 0.2708 0.1397 *

Mars 85221-03-19 19:41 G 32847469.26 32847469.32 32847469.39 0.1628 0.1320

Mars 85222-01-28 13:56 G 32847784.01 32847784.08 32847784.15 0.1908 0.1716

Moon 85223-08-20 20:39 G 32848353.27 32848353.36 32848353.46 0.2619 0.1610

Earth 85223-08-20 21:08 G 32848353.29 32848353.38 32848353.47 0.2625 0.1700 *

Venus 85223-11-12 12:58 G 32848436.94 32848437.04 32848437.14 0.3628 0.0984

Jupiter 85226-11-25 17:32 G 32849546.06 32849546.23 32849546.39 0.0518 0.0192

Mars 85228-09-04 03:51 G 32850194.55 32850194.66 32850194.77 0.1612 0.0634

Venus 85229-05-28 04:34 G 32850460.65 32850460.69 32850460.73 0.3628 0.3310

Mars 85230-08-10 06:44 G 32850899.69 32850899.78 32850899.88 0.1624 0.0920

Earth 85230-08-13 17:17 G 32850903.15 32850903.22 32850903.29 0.2626 0.2049

Moon 85230-08-13 18:15 G 32850903.18 32850903.26 32850903.34 0.2625 0.1883 *

Pluto 85231-04-02 05:32 G 32851134.65 32851134.73 32851134.82 0.0062 0.0053

Mars 85231-06-20 08:24 G 32851213.70 32851213.85 32851214.01 0.1914 0.0562

Pluto 85231-06-29 06:15 G 32851222.65 32851222.76 32851222.90 0.0062 0.0043

Pluto 85231-09-25 07:12 G 32851310.67 32851310.80 32851310.96 0.0062 0.0033

Pluto 85231-12-22 08:24 G 32851398.70 32851398.85 32851399.02 0.0062 0.0022

Pluto 85232-03-19 09:22 G 32851486.73 32851486.89 32851487.07 0.0062 0.0012

Jupiter 85232-04-17 10:34 G 32851515.89 32851515.94 32851515.99 0.0511 0.0473

Pluto 85232-06-15 10:34 G 32851574.76 32851574.94 32851575.11 0.0062 0.0002

Jupiter 85232-07-15 16:34 G 32851605.07 32851605.19 32851605.31 0.0508 0.0205

Pluto 85232-09-11 11:32 G 32851662.81 32851662.98 32851663.15 0.0062 0.0009

Pluto 85232-12-08 12:15 G 32851750.86 32851751.01 32851751.18 0.0062 0.0020

Pluto 85233-03-06 13:12 G 32851838.91 32851839.05 32851839.21 0.0062 0.0031

Venus 85233-05-25 15:08 G 32851918.98 32851919.13 32851919.28 0.3745 0.0284

Pluto 85233-06-02 13:56 G 32851926.97 32851927.08 32851927.23 0.0062 0.0042

Pluto 85233-08-29 15:08 G 32852015.05 32852015.13 32852015.23 0.0062 0.0052

Pluto 85233-11-25 16:05 G 32852103.17 32852103.17 32852103.19 0.0063 0.0062

Saturn 85234-06-18 19:41 G 32852308.22 32852308.32 32852308.42 0.0262 0.0169

Saturn 85234-09-15 05:46 G 32852396.61 32852396.74 32852396.88 0.0262 0.0068

Saturn 85234-12-12 16:20 G 32852485.04 32852485.18 32852485.31 0.0262 0.0036

Saturn 85235-03-11 02:39 G 32852573.50 32852573.61 32852573.73 0.0262 0.0139

Saturn 85235-06-07 13:27 G 32852662.01 32852662.06 32852662.10 0.0262 0.0244

Mars 85238-01-25 15:22 G 32853625.05 32853625.14 32853625.23 0.1610 0.0996

Jupiter 85238-09-13 15:08 G 32853855.95 32853856.13 32853856.30 0.0518 0.0055

Mars 85239-12-31 18:00 G 32854330.13 32854330.25 32854330.36 0.1621 0.0535

Mars 85240-11-09 02:10 G 32854643.44 32854643.59 32854643.75 0.1918 0.0653

Earth 85243-08-16 12:00 G 32855653.89 32855654.00 32855654.12 0.2625 0.0742

Moon 85243-08-16 12:44 G 32855653.92 32855654.03 32855654.14 0.2622 0.0691 *

Jupiter 85244-05-03 20:53 G 32855915.23 32855915.37 32855915.50 0.0509 0.0043

Mars 85247-06-18 02:53 G 32857055.56 32857055.62 32857055.68 0.1607 0.1352

Mars 85249-05-23 05:03 G 32857760.60 32857760.71 32857760.83 0.1618 0.0163

Saturn 85249-07-15 21:51 G 32857814.34 32857814.41 32857814.49 0.0299 0.0268

Saturn 85249-10-12 22:20 G 32857903.25 32857903.43 32857903.60 0.0299 0.0062

Saturn 85250-01-09 22:05 G 32857992.26 32857992.42 32857992.57 0.0299 0.0141

Mars 85250-03-31 19:12 G 32858073.29 32858073.30 32858073.30 0.1923 0.1919

Jupiter 85250-07-02 13:12 G 32858165.91 32858166.05 32858166.20 0.0517 0.0286

Uranus 85251-04-28 08:24 G 32858465.79 32858465.85 32858465.93 0.0144 0.0123

Uranus 85251-07-25 12:29 G 32858553.93 32858554.02 32858554.12 0.0144 0.0100

Uranus 85251-10-21 16:20 G 32858642.07 32858642.18 32858642.30 0.0144 0.0078

Uranus 85252-01-17 20:24 G 32858730.22 32858730.35 32858730.48 0.0144 0.0055

Uranus 85252-04-15 00:29 G 32858818.38 32858818.52 32858818.65 0.0144 0.0032

Uranus 85252-07-12 04:20 G 32858906.55 32858906.68 32858906.82 0.0144 0.0010

Uranus 85252-10-08 08:24 G 32858994.71 32858994.85 32858994.99 0.0144 0.0014

Uranus 85253-01-04 12:29 G 32859082.88 32859083.02 32859083.15 0.0144 0.0037

Uranus 85253-04-02 16:20 G 32859171.06 32859171.18 32859171.31 0.0144 0.0061

Uranus 85253-06-29 20:24 G 32859259.25 32859259.35 32859259.47 0.0144 0.0084

Uranus 85253-09-26 00:29 G 32859347.44 32859347.52 32859347.62 0.0144 0.0108

Uranus 85253-12-23 04:48 G 32859435.65 32859435.70 32859435.76 0.0144 0.0131

Earth 85254-02-16 05:03 G 32859490.57 32859490.71 32859490.85 0.2708 0.0458

Moon 85254-02-16 05:46 G 32859490.59 32859490.74 32859490.88 0.2701 0.0315 *

Jupiter 85256-02-21 00:29 G 32860225.39 32860225.52 32860225.64 0.0509 0.0140

Moon 85256-08-18 06:58 G 32860404.68 32860404.79 32860404.91 0.2618 0.0629

Earth 85256-08-18 06:58 G 32860404.68 32860404.79 32860404.90 0.2625 0.0602 *

Mars 85258-10-13 16:34 G 32861191.07 32861191.19 32861191.30 0.1615 0.0231

Mars 85260-09-17 19:41 G 32861896.26 32861896.32 32861896.39 0.1628 0.1358

Mars 85261-07-29 14:53 G 32862211.07 32862211.12 32862211.17 0.1908 0.1807

Jupiter 85262-07-19 18:44 G 32862566.21 32862566.28 32862566.37 0.0519 0.0458

Saturn 85263-11-05 22:20 G 32863040.35 32863040.43 32863040.52 0.0263 0.0199

Saturn 85264-02-02 08:39 G 32863128.73 32863128.86 32863128.99 0.0263 0.0097

Saturn 85264-04-30 18:58 G 32863217.15 32863217.29 32863217.43 0.0262 0.0006

Saturn 85264-07-28 05:17 G 32863305.60 32863305.72 32863305.85 0.0262 0.0110

Saturn 85264-10-24 15:51 G 32863394.09 32863394.16 32863394.25 0.0262 0.0215

Moon 85267-02-19 07:27 G 32864241.70 32864241.81 32864241.92 0.2702 0.1728

Earth 85267-02-19 07:56 G 32864241.72 32864241.83 32864241.93 0.2708 0.1818 *

Jupiter 85267-12-10 04:34 G 32864535.58 32864535.69 32864535.79 0.0510 0.0310

Mars 85268-03-05 03:51 G 32864621.55 32864621.66 32864621.77 0.1612 0.0597

Jupiter 85268-03-08 10:34 G 32864624.85 32864624.94 32864625.03 0.0507 0.0368

Venus 85269-05-20 03:22 G 32865062.57 32865062.64 32865062.70 0.3627 0.2738

Moon 85269-08-21 01:41 G 32865155.49 32865155.57 32865155.64 0.2620 0.1925

Earth 85269-08-21 02:10 G 32865155.51 32865155.59 32865155.66 0.2625 0.1976 *

Mars 85270-02-08 06:44 G 32865326.69 32865326.78 32865326.88 0.1624 0.0962

Neptune 85270-09-26 02:10 G 32865556.55 32865556.59 32865556.67 0.0090 0.0085

Mars 85270-12-19 09:08 G 32865640.73 32865640.88 32865641.03 0.1913 0.0638

Neptune 85270-12-23 05:32 G 32865644.64 32865644.73 32865644.84 0.0090 0.0074

Neptune 85271-03-21 08:39 G 32865732.75 32865732.86 32865733.00 0.0090 0.0064

Neptune 85271-06-17 11:46 G 32865820.86 32865820.99 32865821.15 0.0090 0.0054

Neptune 85271-09-13 15:08 G 32865908.98 32865909.13 32865909.30 0.0090 0.0043

Neptune 85271-12-10 18:15 G 32865997.10 32865997.26 32865997.44 0.0090 0.0033

Neptune 85272-03-07 21:22 G 32866085.22 32866085.39 32866085.57 0.0090 0.0022

Neptune 85272-06-04 00:44 G 32866173.35 32866173.53 32866173.71 0.0090 0.0012

Neptune 85272-08-31 03:51 G 32866261.48 32866261.66 32866261.84 0.0090 0.0003

Neptune 85272-11-27 06:44 G 32866349.61 32866349.78 32866349.96 0.0090 0.0009

Neptune 85273-02-23 09:51 G 32866437.74 32866437.91 32866438.09 0.0090 0.0019

Neptune 85273-05-22 12:58 G 32866525.87 32866526.04 32866526.21 0.0090 0.0029

Neptune 85273-08-18 15:51 G 32866614.01 32866614.16 32866614.33 0.0090 0.0039

Neptune 85273-11-14 18:58 G 32866702.15 32866702.29 32866702.44 0.0090 0.0049

Neptune 85274-02-10 21:51 G 32866790.29 32866790.41 32866790.56 0.0090 0.0059

Jupiter 85274-05-07 16:05 G 32866876.01 32866876.17 32866876.33 0.0518 0.0206

Neptune 85274-05-10 00:58 G 32866878.43 32866878.54 32866878.66 0.0090 0.0069

Neptune 85274-08-06 03:51 G 32866966.59 32866966.66 32866966.76 0.0090 0.0079

Neptune 85274-11-02 06:44 G 32867054.78 32867054.78 32867054.82 0.0090 0.0089

Venus 85274-12-03 18:44 G 32867086.18 32867086.28 32867086.39 0.3628 0.0479

Earth 85276-08-13 22:20 G 32867705.35 32867705.43 32867705.51 0.2626 0.1792

Moon 85276-08-13 23:03 G 32867705.38 32867705.46 32867705.55 0.2625 0.1764 *

Mars 85277-07-26 15:22 G 32868052.04 32868052.14 32868052.23 0.1609 0.0962

Saturn 85279-03-01 22:05 G 32868635.25 32868635.42 32868635.58 0.0299 0.0111

Saturn 85279-05-29 21:51 G 32868724.25 32868724.41 32868724.58 0.0299 0.0094

Mars 85279-07-01 18:00 G 32868757.14 32868757.25 32868757.36 0.1621 0.0571

Saturn 85279-08-26 21:22 G 32868813.36 32868813.39 32868813.43 0.0300 0.0293

Jupiter 85279-09-28 08:39 G 32868845.82 32868845.86 32868845.91 0.0511 0.0476

Jupiter 85279-12-26 14:39 G 32868934.99 32868935.11 32868935.23 0.0508 0.0202

Mars 85280-05-10 02:53 G 32869070.46 32869070.62 32869070.77 0.1918 0.0581

Venus 85280-06-18 10:20 G 32869109.84 32869109.93 32869110.02 0.3628 0.1840

Jupiter 85286-02-23 13:27 G 32871185.89 32871186.06 32871186.24 0.0517 0.0043

Mars 85286-12-17 02:53 G 32871482.56 32871482.62 32871482.69 0.1607 0.1315

Earth 85287-02-14 07:56 G 32871541.76 32871541.83 32871541.90 0.2707 0.2372

Moon 85287-02-14 08:53 G 32871541.79 32871541.87 32871541.96 0.2703 0.2128 *

Mars 85288-11-21 05:03 G 32872187.59 32872187.71 32872187.83 0.1618 0.0184

Earth 85289-08-16 17:03 G 32872456.09 32872456.21 32872456.32 0.2625 0.0477

Moon 85289-08-16 17:32 G 32872456.11 32872456.23 32872456.35 0.2620 0.0359 *

Mars 85289-09-29 20:10 G 32872500.29 32872500.34 32872500.39 0.1923 0.1823

Venus 85289-12-30 17:03 G 32872592.11 32872592.21 32872592.30 0.3744 0.2781

Jupiter 85291-10-14 18:58 G 32873245.16 32873245.29 32873245.43 0.0509 0.0043

Uranus 85293-02-17 04:20 G 32873736.61 32873736.68 32873736.75 0.0134 0.0124

Saturn 85293-03-25 01:27 G 32873772.49 32873772.56 32873772.62 0.0262 0.0226

Uranus 85293-05-16 10:48 G 32873824.83 32873824.95 32873825.08 0.0134 0.0099

Saturn 85293-06-21 11:32 G 32873860.86 32873860.98 32873861.10 0.0262 0.0125

Uranus 85293-08-12 17:03 G 32873913.07 32873913.21 32873913.37 0.0134 0.0074

Saturn 85293-09-17 21:51 G 32873949.28 32873949.41 32873949.55 0.0262 0.0023

Uranus 85293-11-08 23:32 G 32874001.32 32874001.48 32874001.65 0.0134 0.0049

Saturn 85293-12-15 08:24 G 32874037.72 32874037.85 32874037.98 0.0262 0.0082

Uranus 85294-02-05 06:00 G 32874089.57 32874089.75 32874089.93 0.0134 0.0024

Saturn 85294-03-13 18:44 G 32874126.19 32874126.28 32874126.38 0.0262 0.0186

Uranus 85294-05-04 12:15 G 32874177.83 32874178.01 32874178.19 0.0134 0.0001

Uranus 85294-07-31 18:29 G 32874266.09 32874266.27 32874266.45 0.0134 0.0025

Uranus 85294-10-28 00:44 G 32874354.36 32874354.53 32874354.70 0.0134 0.0050

Uranus 85295-01-24 06:29 G 32874442.64 32874442.77 32874442.94 0.0134 0.0075

Uranus 85295-04-22 12:58 G 32874530.92 32874531.04 32874531.16 0.0134 0.0098

Uranus 85295-07-19 18:58 G 32874619.22 32874619.29 32874619.37 0.0134 0.0122

Jupiter 85297-12-12 10:48 G 32875495.81 32875495.95 32875496.10 0.0517 0.0291

Mars 85298-04-13 16:34 G 32875618.07 32875618.19 32875618.30 0.1615 0.0194

Earth 85300-02-17 11:03 G 32876292.82 32876292.96 32876293.10 0.2708 0.0039

Moon 85300-02-17 11:32 G 32876292.84 32876292.98 32876293.13 0.2701 0.0074 *

Mars 85300-03-19 19:41 G 32876323.26 32876323.32 32876323.38 0.1628 0.1392

Mars 85301-01-28 15:36 G 32876638.14 32876638.15 32876638.17 0.1908 0.1894

Moon 85302-08-20 12:00 G 32877206.89 32877207.00 32877207.11 0.2618 0.0848

Earth 85302-08-20 12:00 G 32877206.89 32877207.00 32877207.11 0.2625 0.0872 *

Jupiter 85303-08-03 23:32 G 32877555.35 32877555.48 32877555.61 0.0509 0.0126

Mars 85307-09-05 03:51 G 32879048.55 32879048.66 32879048.77 0.1612 0.0559

Saturn 85308-07-19 18:58 G 32879367.15 32879367.29 32879367.43 0.0299 0.0183

Saturn 85308-10-16 18:58 G 32879456.12 32879456.29 32879456.47 0.0299 0.0023

Saturn 85309-01-13 18:29 G 32879545.16 32879545.27 32879545.39 0.0299 0.0224

Mars 85309-08-10 06:44 G 32879753.69 32879753.78 32879753.88 0.1625 0.1001

Jupiter 85309-12-30 16:34 G 32879896.11 32879896.19 32879896.27 0.0519 0.0455

Mars 85310-06-20 10:05 G 32880067.77 32880067.92 32880068.07 0.1913 0.0728

Moon 85313-02-20 13:12 G 32881043.97 32881044.05 32881044.13 0.2701 0.2203

Earth 85313-02-20 13:56 G 32881044.00 32881044.08 32881044.15 0.2708 0.2237 *

Jupiter 85315-05-23 03:08 G 32881865.53 32881865.63 32881865.74 0.0510 0.0304

Jupiter 85315-08-20 09:08 G 32881954.79 32881954.88 32881954.97 0.0507 0.0374

Moon 85315-08-23 06:29 G 32881957.70 32881957.77 32881957.83 0.2621 0.2169

Earth 85315-08-23 06:58 G 32881957.74 32881957.79 32881957.85 0.2625 0.2249 *

Mars 85317-01-25 15:22 G 32882479.04 32882479.14 32882479.23 0.1609 0.0922

Mars 85318-12-31 18:00 G 32883184.14 32883184.25 32883184.36 0.1621 0.0609

Mars 85319-11-10 03:51 G 32883497.50 32883497.66 32883497.82 0.1918 0.0486

Jupiter 85321-10-18 14:39 G 32884205.95 32884206.11 32884206.27 0.0519 0.0219

Saturn 85322-08-13 04:05 G 32884504.65 32884504.67 32884504.70 0.0263 0.0256

Earth 85322-08-16 03:22 G 32884507.54 32884507.64 32884507.73 0.2625 0.1534

Moon 85322-08-16 04:05 G 32884507.57 32884507.67 32884507.77 0.2625 0.1364 *

Saturn 85322-11-09 14:24 G 32884592.99 32884593.10 32884593.21 0.0263 0.0154

Saturn 85323-02-06 00:44 G 32884681.39 32884681.53 32884681.66 0.0263 0.0052

Pluto 85323-02-09 05:17 G 32884684.65 32884684.72 32884684.83 0.0082 0.0065

Saturn 85323-05-05 11:03 G 32884769.83 32884769.96 32884770.10 0.0262 0.0052

Pluto 85323-05-08 06:58 G 32884772.68 32884772.79 32884772.92 0.0082 0.0044

Saturn 85323-08-01 21:36 G 32884858.29 32884858.40 32884858.51 0.0262 0.0157

Pluto 85323-08-04 08:24 G 32884860.72 32884860.85 32884861.00 0.0082 0.0024

Pluto 85323-10-31 10:05 G 32884948.77 32884948.92 32884949.06 0.0082 0.0004

Pluto 85324-01-27 11:17 G 32885036.83 32885036.97 32885037.12 0.0081 0.0017

Pluto 85324-04-24 12:44 G 32885124.91 32885125.03 32885125.16 0.0081 0.0037

Pluto 85324-07-21 14:10 G 32885212.99 32885213.09 32885213.20 0.0081 0.0058

Pluto 85324-10-17 15:22 G 32885301.12 32885301.14 32885301.19 0.0081 0.0078

Venus 85325-12-26 00:44 G 32885735.44 32885735.53 32885735.62 0.3627 0.1894

Mars 85326-06-18 02:53 G 32885909.55 32885909.62 32885909.69 0.1607 0.1280

Jupiter 85327-03-11 07:12 G 32886175.76 32886175.80 32886175.85 0.0510 0.0474

Jupiter 85327-06-08 12:58 G 32886264.92 32886265.04 32886265.17 0.0508 0.0202

Mars 85328-05-23 05:03 G 32886614.60 32886614.71 32886614.83 0.1618 0.0229

Mars 85329-03-31 20:53 G 32886927.30 32886927.37 32886927.43 0.1922 0.1745

Venus 85331-07-11 16:20 G 32887759.07 32887759.18 32887759.28 0.3628 0.0418

Earth 85333-02-15 13:56 G 32888343.98 32888344.08 32888344.18 0.2707 0.1929

Moon 85333-02-15 15:08 G 32888344.03 32888344.13 32888344.23 0.2702 0.1884 *

Jupiter 85333-08-06 11:46 G 32888515.81 32888515.99 32888516.16 0.0518 0.0034

Uranus 85335-02-20 12:15 G 32889078.98 32889079.01 32889079.06 0.0144 0.0137

Uranus 85335-05-19 16:20 G 32889167.10 32889167.18 32889167.26 0.0144 0.0114

Uranus 85335-08-15 20:10 G 32889255.24 32889255.34 32889255.45 0.0144 0.0092

Earth 85335-08-18 22:05 G 32889258.30 32889258.42 32889258.53 0.2625 0.0219

Moon 85335-08-18 22:20 G 32889258.32 32889258.43 32889258.55 0.2619 0.0248 *

Uranus 85335-11-12 00:15 G 32889343.39 32889343.51 32889343.63 0.0144 0.0069

Uranus 85336-02-08 04:05 G 32889431.54 32889431.67 32889431.80 0.0144 0.0047

Uranus 85336-05-06 08:10 G 32889519.70 32889519.84 32889519.97 0.0144 0.0024

Uranus 85336-08-02 12:00 G 32889607.87 32889608.00 32889608.14 0.0144 0.0005

Uranus 85336-10-29 16:05 G 32889696.04 32889696.17 32889696.31 0.0144 0.0023

Venus 85337-01-24 07:41 G 32889782.76 32889782.82 32889782.89 0.3628 0.2710

Uranus 85337-01-25 20:10 G 32889784.21 32889784.34 32889784.47 0.0144 0.0046

Uranus 85337-04-24 00:15 G 32889872.39 32889872.51 32889872.63 0.0144 0.0069

Uranus 85337-07-21 04:05 G 32889960.57 32889960.67 32889960.79 0.0144 0.0093

Mars 85337-10-13 16:20 G 32890045.07 32890045.18 32890045.30 0.1615 0.0164

Uranus 85337-10-17 08:24 G 32890048.77 32890048.85 32890048.93 0.0144 0.0116

Saturn 85337-12-06 19:12 G 32890099.19 32890099.30 32890099.42 0.0299 0.0228

Uranus 85338-01-13 12:29 G 32890137.00 32890137.02 32890137.05 0.0144 0.0140

Saturn 85338-03-05 19:27 G 32890188.14 32890188.31 32890188.49 0.0299 0.0023

Saturn 85338-06-02 19:12 G 32890277.16 32890277.30 32890277.44 0.0299 0.0181

Jupiter 85339-03-27 17:03 G 32890575.08 32890575.21 32890575.35 0.0509 0.0037

Mars 85339-09-18 19:41 G 32890750.27 32890750.32 32890750.38 0.1628 0.1433

Venus 85341-01-21 10:48 G 32891240.83 32891240.95 32891241.06 0.3745 0.2337

Jupiter 85345-05-25 08:53 G 32892825.73 32892825.87 32892826.02 0.0517 0.0284

Earth 85346-02-18 17:03 G 32893095.07 32893095.21 32893095.35 0.2708 0.0411

Moon 85346-02-18 17:17 G 32893095.08 32893095.22 32893095.36 0.2701 0.0512 *

Mars 85347-03-06 03:51 G 32893475.55 32893475.66 32893475.77 0.1612 0.0526

Moon 85348-08-20 16:48 G 32894009.10 32894009.20 32894009.31 0.2619 0.1170

Earth 85348-08-20 17:03 G 32894009.10 32894009.21 32894009.31 0.2625 0.1141 *

Mars 85349-02-08 06:44 G 32894180.69 32894180.78 32894180.87 0.1624 0.1031

Mars 85349-12-19 10:48 G 32894494.80 32894494.95 32894495.10 0.1914 0.0807

Jupiter 85351-01-13 21:22 G 32894885.27 32894885.39 32894885.52 0.0510 0.0133

Saturn 85352-03-28 17:46 G 32895325.14 32895325.24 32895325.34 0.0262 0.0178

Neptune 85352-03-29 00:00 G 32895325.46 32895325.50 32895325.55 0.0088 0.0083

Neptune 85352-06-25 01:27 G 32895413.50 32895413.56 32895413.63 0.0088 0.0076

Saturn 85352-06-25 03:51 G 32895413.54 32895413.66 32895413.80 0.0262 0.0076 *

Neptune 85352-09-21 02:39 G 32895501.54 32895501.61 32895501.71 0.0088 0.0069

Saturn 85352-09-21 14:24 G 32895501.96 32895502.10 32895502.23 0.0262 0.0028

Neptune 85352-12-18 04:05 G 32895589.59 32895589.67 32895589.78 0.0088 0.0062

Saturn 85352-12-19 00:44 G 32895590.42 32895590.53 32895590.65 0.0262 0.0132

Neptune 85353-03-16 05:46 G 32895677.64 32895677.74 32895677.86 0.0088 0.0054

Saturn 85353-03-17 11:32 G 32895678.92 32895678.98 32895679.03 0.0262 0.0237

Neptune 85353-06-12 07:12 G 32895765.69 32895765.80 32895765.93 0.0088 0.0047

Neptune 85353-09-08 08:39 G 32895853.75 32895853.86 32895853.99 0.0088 0.0040

Neptune 85353-12-05 10:20 G 32895941.80 32895941.93 32895942.06 0.0088 0.0032

Neptune 85354-03-03 11:46 G 32896029.86 32896029.99 32896030.13 0.0088 0.0025

Neptune 85354-05-30 13:12 G 32896117.92 32896118.05 32896118.19 0.0088 0.0018

Neptune 85354-08-26 14:39 G 32896205.98 32896206.11 32896206.26 0.0088 0.0011

Neptune 85354-11-22 16:20 G 32896294.04 32896294.18 32896294.32 0.0088 0.0003

Neptune 85355-02-18 17:46 G 32896382.10 32896382.24 32896382.38 0.0088 0.0005

Neptune 85355-05-17 19:12 G 32896470.16 32896470.30 32896470.44 0.0088 0.0012

Neptune 85355-08-13 20:39 G 32896558.23 32896558.36 32896558.50 0.0088 0.0020

Earth 85355-08-14 13:41 G 32896559.05 32896559.07 32896559.09 0.2626 0.2570

Moon 85355-08-14 14:24 G 32896559.06 32896559.10 32896559.14 0.2628 0.2455 *

Neptune 85355-11-09 22:20 G 32896646.29 32896646.43 32896646.56 0.0088 0.0027

Neptune 85356-02-05 23:46 G 32896734.36 32896734.49 32896734.62 0.0088 0.0035

Neptune 85356-05-04 01:12 G 32896822.43 32896822.55 32896822.68 0.0088 0.0042

Mars 85356-07-26 15:22 G 32896906.04 32896906.14 32896906.23 0.1610 0.0885

Neptune 85356-07-31 02:39 G 32896910.50 32896910.61 32896910.73 0.0088 0.0050

Neptune 85356-10-27 04:20 G 32896998.57 32896998.68 32896998.79 0.0088 0.0057

Neptune 85357-01-23 05:46 G 32897086.65 32897086.74 32897086.84 0.0088 0.0065

Neptune 85357-04-21 06:58 G 32897174.73 32897174.79 32897174.89 0.0088 0.0073

Jupiter 85357-06-11 13:27 G 32897225.98 32897226.06 32897226.16 0.0519 0.0443

Neptune 85357-07-18 08:39 G 32897262.82 32897262.86 32897262.93 0.0088 0.0080

Neptune 85357-10-14 10:20 G 32897350.93 32897350.93 32897350.95 0.0088 0.0087

Mars 85358-07-01 18:00 G 32897611.14 32897611.25 32897611.35 0.1621 0.0648

Moon 85359-02-21 19:12 G 32897846.25 32897846.30 32897846.35 0.2702 0.2507

Earth 85359-02-21 19:56 G 32897846.31 32897846.33 32897846.35 0.2708 0.2661 *

Mars 85359-05-11 04:48 G 32897924.54 32897924.70 32897924.86 0.1918 0.0393

Moon 85361-08-23 11:17 G 32898759.93 32898759.97 32898760.02 0.2620 0.2407

Earth 85361-08-23 12:00 G 32898759.97 32898760.00 32898760.03 0.2625 0.2526 *

Jupiter 85362-11-02 01:41 G 32899195.47 32899195.57 32899195.68 0.0510 0.0297

Jupiter 85363-01-30 07:56 G 32899284.74 32899284.83 32899284.91 0.0507 0.0383

Mars 85365-12-17 02:53 G 32900336.55 32900336.62 32900336.69 0.1607 0.1242

Saturn 85367-04-25 17:03 G 32900831.18 32900831.21 32900831.24 0.0298 0.0292

Saturn 85367-07-23 17:17 G 32900920.05 32900920.22 32900920.39 0.0299 0.0085

Saturn 85367-10-20 17:17 G 32901009.06 32901009.22 32901009.38 0.0299 0.0118

Mars 85367-11-22 05:03 G 32901041.60 32901041.71 32901041.83 0.1618 0.0264

Earth 85368-08-16 08:10 G 32901309.74 32901309.84 32901309.94 0.2626 0.1270

Moon 85368-08-16 08:53 G 32901309.77 32901309.87 32901309.98 0.2624 0.1237 *

Mars 85368-09-29 21:36 G 32901354.32 32901354.40 32901354.48 0.1923 0.1655

Jupiter 85369-03-30 11:46 G 32901535.84 32901535.99 32901536.16 0.0519 0.0211

Jupiter 85374-08-21 05:46 G 32903505.69 32903505.74 32903505.78 0.0510 0.0471

Jupiter 85374-11-18 11:32 G 32903594.86 32903594.98 32903595.10 0.0508 0.0204

Mars 85375-05-09 14:24 G 32903767.09 32903767.10 32903767.11 0.1605 0.1593

Venus 85377-01-16 06:44 G 32904384.74 32904384.78 32904384.82 0.3627 0.3298

Uranus 85377-03-10 11:03 G 32904437.89 32904437.96 32904438.06 0.0134 0.0117

Mars 85377-04-13 16:20 G 32904472.07 32904472.18 32904472.30 0.1615 0.0125

Uranus 85377-06-06 17:46 G 32904526.11 32904526.24 32904526.38 0.0134 0.0092

Uranus 85377-09-03 00:15 G 32904614.35 32904614.51 32904614.67 0.0134 0.0067

Uranus 85377-11-30 06:44 G 32904702.60 32904702.78 32904702.95 0.0134 0.0042

Uranus 85378-02-26 12:58 G 32904790.86 32904791.04 32904791.22 0.0134 0.0017

Uranus 85378-05-25 19:12 G 32904879.12 32904879.30 32904879.48 0.0134 0.0008

Uranus 85378-08-22 01:27 G 32904967.39 32904967.56 32904967.74 0.0134 0.0032

Uranus 85378-11-18 07:41 G 32905055.66 32905055.82 32905055.99 0.0134 0.0057

Uranus 85379-02-14 13:56 G 32905143.94 32905144.08 32905144.22 0.0134 0.0081

Earth 85379-02-16 20:10 G 32905146.22 32905146.34 32905146.46 0.2707 0.1492

Moon 85379-02-16 21:08 G 32905146.25 32905146.38 32905146.51 0.2703 0.1273 *

Mars 85379-03-19 19:41 G 32905177.28 32905177.32 32905177.37 0.1628 0.1469

Uranus 85379-05-13 19:56 G 32905232.23 32905232.33 32905232.45 0.0134 0.0105

Uranus 85379-08-10 01:56 G 32905320.54 32905320.58 32905320.64 0.0134 0.0129

Jupiter 85381-01-16 09:51 G 32905845.73 32905845.91 32905846.08 0.0518 0.0031

Saturn 85381-08-15 20:24 G 32906057.27 32906057.35 32906057.44 0.0263 0.0207

Earth 85381-08-19 03:08 G 32906060.51 32906060.63 32906060.74 0.2625 0.0085

Moon 85381-08-19 03:22 G 32906060.52 32906060.64 32906060.76 0.2619 0.0180 *

Saturn 85381-11-12 06:44 G 32906145.66 32906145.78 32906145.91 0.0263 0.0105

Saturn 85382-02-08 17:03 G 32906234.08 32906234.21 32906234.35 0.0263 0.0009

Saturn 85382-05-08 03:36 G 32906322.53 32906322.65 32906322.78 0.0263 0.0103

Venus 85382-08-01 22:05 G 32906408.32 32906408.42 32906408.52 0.3627 0.1046

Saturn 85382-08-04 14:10 G 32906411.01 32906411.09 32906411.18 0.0262 0.0208

Mars 85386-09-04 03:51 G 32907902.55 32907902.66 32907902.77 0.1612 0.0486

Jupiter 85386-09-06 15:22 G 32907905.01 32907905.14 32907905.28 0.0508 0.0035

Venus 85388-02-15 13:41 G 32908431.97 32908432.07 32908432.17 0.3627 0.1253

Mars 85388-08-09 06:44 G 32908607.70 32908607.78 32908607.87 0.1624 0.1074

Mars 85389-06-19 11:32 G 32908921.84 32908921.98 32908922.13 0.1913 0.0891

Moon 85392-02-19 23:03 G 32909897.32 32909897.46 32909897.60 0.2701 0.0736

Earth 85392-02-19 23:17 G 32909897.33 32909897.47 32909897.60 0.2708 0.0843 *

Jupiter 85392-11-04 06:44 G 32910155.63 32910155.78 32910155.93 0.0517 0.0284

Venus 85393-08-31 05:17 G 32910455.71 32910455.72 32910455.73 0.3628 0.3580

Moon 85394-08-21 21:51 G 32910811.30 32910811.41 32910811.51 0.2619 0.1320

Earth 85394-08-21 22:05 G 32910811.32 32910811.42 32910811.52 0.2625 0.1417 *

Mars 85396-01-25 15:08 G 32911333.03 32911333.13 32911333.23 0.1609 0.0852

Saturn 85396-12-09 18:15 G 32911652.10 32911652.26 32911652.42 0.0299 0.0126

Saturn 85397-03-08 18:15 G 32911741.09 32911741.26 32911741.43 0.0299 0.0078

Saturn 85397-06-05 17:32 G 32911830.17 32911830.23 32911830.30 0.0299 0.0279

Venus 85397-08-28 12:29 G 32911913.87 32911914.02 32911914.17 0.3745 0.0262

Mars 85397-12-30 17:46 G 32912038.14 32912038.24 32912038.35 0.1621 0.0683

Jupiter 85398-06-25 19:27 G 32912215.18 32912215.31 32912215.44 0.0509 0.0140

Mars 85398-11-09 05:03 G 32912351.55 32912351.71 32912351.88 0.1918 0.0329

Earth 85401-08-15 18:29 G 32913361.22 32913361.27 32913361.32 0.2626 0.2313

Moon 85401-08-15 19:12 G 32913361.25 32913361.30 32913361.36 0.2628 0.2235 *

Jupiter 85404-11-22 11:32 G 32914555.89 32914555.98 32914556.07 0.0519 0.0444

Mars 85405-06-18 02:53 G 32914763.54 32914763.62 32914763.69 0.1607 0.1205

Mars 85407-05-24 05:03 G 32915468.59 32915468.71 32915468.83 0.1618 0.0296

Mars 85408-03-31 22:48 G 32915781.36 32915781.45 32915781.55 0.1923 0.1551

Jupiter 85410-04-14 23:46 G 32916525.39 32916525.49 32916525.60 0.0510 0.0306

Jupiter 85410-07-13 05:46 G 32916614.65 32916614.74 32916614.83 0.0508 0.0374

Saturn 85411-01-04 00:00 G 32916789.44 32916789.50 32916789.57 0.0263 0.0229

Saturn 85411-04-02 10:20 G 32916877.81 32916877.93 32916878.05 0.0262 0.0127

Saturn 85411-06-29 20:39 G 32916966.23 32916966.36 32916966.50 0.0262 0.0024

Saturn 85411-09-26 07:12 G 32917054.67 32917054.80 32917054.93 0.0262 0.0080

Saturn 85411-12-23 17:46 G 32917143.14 32917143.24 32917143.33 0.0262 0.0185

Earth 85414-08-18 13:12 G 32918111.94 32918112.05 32918112.16 0.2625 0.1011

Moon 85414-08-18 13:56 G 32918111.97 32918112.08 32918112.19 0.2622 0.0892 *

Mars 85414-11-08 14:24 G 32918194.08 32918194.10 32918194.12 0.1605 0.1557

Jupiter 85416-09-10 08:39 G 32918865.71 32918865.86 32918866.03 0.0518 0.0195

Mars 85416-10-13 16:20 G 32918899.07 32918899.18 32918899.30 0.1615 0.0099

Mars 85418-09-18 19:41 G 32919604.28 32919604.32 32919604.37 0.1628 0.1506

Uranus 85419-03-13 19:56 G 32919780.28 32919780.33 32919780.40 0.0144 0.0129

Uranus 85419-06-10 00:00 G 32919868.41 32919868.50 32919868.59 0.0144 0.0106

Uranus 85419-09-06 03:51 G 32919956.55 32919956.66 32919956.77 0.0144 0.0084

Uranus 85419-12-03 07:56 G 32920044.70 32920044.83 32920044.95 0.0144 0.0061

Uranus 85420-02-29 11:46 G 32920132.86 32920132.99 32920133.12 0.0144 0.0038

Uranus 85420-05-27 15:51 G 32920221.02 32920221.16 32920221.29 0.0144 0.0016

Uranus 85420-08-23 19:41 G 32920309.18 32920309.32 32920309.46 0.0144 0.0008

Uranus 85420-11-19 23:46 G 32920397.36 32920397.49 32920397.63 0.0144 0.0031

Uranus 85421-02-16 03:51 G 32920485.53 32920485.66 32920485.79 0.0144 0.0054

Uranus 85421-05-15 07:41 G 32920573.71 32920573.82 32920573.95 0.0144 0.0078

Uranus 85421-08-11 12:00 G 32920661.90 32920662.00 32920662.10 0.0144 0.0101

Uranus 85421-11-07 15:51 G 32920750.11 32920750.16 32920750.24 0.0144 0.0125

Jupiter 85422-02-01 04:05 G 32920835.63 32920835.67 32920835.72 0.0511 0.0470

Jupiter 85422-05-01 10:05 G 32920924.80 32920924.92 32920925.04 0.0508 0.0207

Earth 85425-02-18 02:10 G 32921948.46 32921948.59 32921948.72 0.2707 0.1053

Moon 85425-02-18 03:08 G 32921948.49 32921948.63 32921948.76 0.2702 0.1012 *

Mars 85426-03-06 03:36 G 32922329.54 32922329.65 32922329.77 0.1612 0.0454

Saturn 85426-04-29 16:34 G 32922384.05 32922384.19 32922384.33 0.0298 0.0185

Saturn 85426-07-27 16:48 G 32922473.02 32922473.20 32922473.37 0.0299 0.0021

Saturn 85426-10-24 16:05 G 32922562.07 32922562.17 32922562.30 0.0299 0.0222

Earth 85427-08-21 07:56 G 32922862.72 32922862.83 32922862.95 0.2625 0.0343

Moon 85427-08-21 08:24 G 32922862.73 32922862.85 32922862.97 0.2619 0.0303 *

Mars 85428-02-09 06:44 G 32923034.70 32923034.78 32923034.87 0.1624 0.1111

Jupiter 85428-06-29 06:44 G 32923175.61 32923175.78 32923175.96 0.0518 0.0044

Mars 85428-12-19 12:15 G 32923348.87 32923349.01 32923349.15 0.1913 0.0970

Venus 85433-08-24 04:05 G 32925057.59 32925057.67 32925057.74 0.3627 0.2458

Jupiter 85434-02-17 13:56 G 32925234.94 32925235.08 32925235.21 0.0508 0.0035

Neptune 85435-03-28 21:51 G 32925639.41 32925639.41 32925639.43 0.0090 0.0090

Neptune 85435-06-25 01:12 G 32925727.47 32925727.55 32925727.64 0.0090 0.0079

Mars 85435-07-27 15:08 G 32925760.03 32925760.13 32925760.24 0.1609 0.0814

Neptune 85435-09-21 04:05 G 32925815.57 32925815.67 32925815.80 0.0090 0.0069

Neptune 85435-12-18 07:41 G 32925903.68 32925903.82 32925903.96 0.0090 0.0058

Neptune 85436-03-15 10:34 G 32925991.80 32925991.94 32925992.11 0.0090 0.0048

Neptune 85436-06-11 13:41 G 32926079.92 32926080.07 32926080.25 0.0090 0.0038

Neptune 85436-09-07 17:03 G 32926168.04 32926168.21 32926168.39 0.0090 0.0027

Neptune 85436-12-04 20:10 G 32926256.17 32926256.34 32926256.52 0.0090 0.0017

Neptune 85437-03-02 23:17 G 32926344.29 32926344.47 32926344.66 0.0090 0.0007

Neptune 85437-05-30 02:24 G 32926432.42 32926432.60 32926432.78 0.0090 0.0004

Mars 85437-07-01 17:46 G 32926465.14 32926465.24 32926465.35 0.1621 0.0720

Neptune 85437-08-26 05:32 G 32926520.55 32926520.73 32926520.91 0.0090 0.0014

Neptune 85437-11-22 08:39 G 32926608.69 32926608.86 32926609.03 0.0090 0.0024

Neptune 85438-02-18 11:46 G 32926696.82 32926696.99 32926697.16 0.0090 0.0034

Moon 85438-02-21 05:03 G 32926699.58 32926699.71 32926699.83 0.2701 0.1324

Earth 85438-02-21 05:17 G 32926699.59 32926699.72 32926699.84 0.2708 0.1262 *

Mars 85438-05-11 06:15 G 32926778.60 32926778.76 32926778.93 0.1918 0.0226

Neptune 85438-05-17 14:24 G 32926784.96 32926785.10 32926785.27 0.0090 0.0045

Neptune 85438-08-13 17:32 G 32926873.10 32926873.23 32926873.39 0.0090 0.0055

Neptune 85438-11-09 20:24 G 32926961.25 32926961.35 32926961.49 0.0090 0.0065

Neptune 85439-02-05 23:32 G 32927049.40 32927049.48 32927049.59 0.0090 0.0075

Venus 85439-03-09 19:27 G 32927081.21 32927081.31 32927081.42 0.3627 0.0235

Neptune 85439-05-05 02:53 G 32927137.56 32927137.62 32927137.68 0.0090 0.0084

Jupiter 85440-04-17 04:20 G 32927485.54 32927485.68 32927485.83 0.0517 0.0287

Saturn 85440-05-23 02:53 G 32927521.60 32927521.62 32927521.65 0.0263 0.0258

Saturn 85440-08-19 13:12 G 32927609.94 32927610.05 32927610.16 0.0263 0.0156

Moon 85440-08-23 02:39 G 32927613.52 32927613.61 32927613.70 0.2619 0.1700

Earth 85440-08-23 03:08 G 32927613.54 32927613.63 32927613.72 0.2625 0.1693 *

Saturn 85440-11-15 23:32 G 32927698.35 32927698.48 32927698.61 0.0263 0.0053

Saturn 85441-02-12 09:51 G 32927786.78 32927786.91 32927787.05 0.0263 0.0052

Saturn 85441-05-11 20:24 G 32927875.24 32927875.35 32927875.46 0.0263 0.0156

Saturn 85441-08-08 07:12 G 32927963.80 32927963.80 32927963.80 0.0262 0.0262

Venus 85444-09-22 11:03 G 32929104.88 32929104.96 32929105.04 0.3627 0.2111

Mars 85444-12-17 02:39 G 32929190.54 32929190.61 32929190.69 0.1607 0.1172

Jupiter 85445-12-06 17:46 G 32929545.12 32929545.24 32929545.37 0.0509 0.0141

Mars 85446-11-22 05:03 G 32929895.60 32929895.71 32929895.83 0.1618 0.0337

Earth 85447-08-16 23:32 G 32930163.41 32930163.48 32930163.55 0.2626 0.2061

Moon 85447-08-17 00:15 G 32930163.43 32930163.51 32930163.58 0.2627 0.1971 *

Mars 85447-09-30 23:17 G 32930208.36 32930208.47 32930208.57 0.1923 0.1483

Jupiter 85452-05-04 08:53 G 32931885.79 32931885.87 32931885.97 0.0519 0.0441

Venus 85454-04-05 14:10 G 32932587.00 32932587.09 32932587.19 0.3745 0.2763

Mars 85454-05-09 14:24 G 32932621.06 32932621.10 32932621.13 0.1605 0.1522

Saturn 85455-09-16 17:32 G 32933116.12 32933116.23 32933116.35 0.0299 0.0225

Saturn 85455-12-14 17:46 G 32933205.07 32933205.24 32933205.42 0.0299 0.0020

Saturn 85456-03-12 17:32 G 32933294.10 32933294.23 32933294.37 0.0299 0.0184

Mars 85456-04-13 16:20 G 32933326.06 32933326.18 32933326.30 0.1615 0.0045

Jupiter 85457-09-24 21:36 G 32933855.30 32933855.40 32933855.51 0.0510 0.0315

Jupiter 85457-12-23 03:36 G 32933944.56 32933944.65 32933944.75 0.0508 0.0365

Mars 85458-03-19 19:41 G 32934031.29 32934031.32 32934031.36 0.1628 0.1543

Earth 85460-08-18 18:15 G 32934914.14 32934914.26 32934914.37 0.2625 0.0752

Moon 85460-08-18 18:44 G 32934914.17 32934914.28 32934914.40 0.2621 0.0691 *

Uranus 85461-03-31 18:15 G 32935139.17 32935139.26 32935139.38 0.0134 0.0110

Uranus 85461-06-28 00:44 G 32935227.40 32935227.53 32935227.68 0.0134 0.0085

Uranus 85461-09-24 07:12 G 32935315.64 32935315.80 32935315.97 0.0134 0.0060

Uranus 85461-12-21 13:41 G 32935403.90 32935404.07 32935404.25 0.0134 0.0034

Uranus 85462-03-19 20:10 G 32935492.16 32935492.34 32935492.52 0.0134 0.0009

Uranus 85462-06-16 02:24 G 32935580.42 32935580.60 32935580.78 0.0134 0.0015

Uranus 85462-09-12 08:39 G 32935668.69 32935668.86 32935669.04 0.0134 0.0040

Uranus 85462-12-09 14:39 G 32935756.96 32935757.11 32935757.28 0.0134 0.0065

Uranus 85463-03-07 20:53 G 32935845.25 32935845.37 32935845.51 0.0134 0.0088

Uranus 85463-06-04 02:53 G 32935933.54 32935933.62 32935933.73 0.0134 0.0113

Jupiter 85464-02-21 06:29 G 32936195.61 32936195.77 32936195.93 0.0518 0.0193

Mars 85465-09-04 03:36 G 32936756.54 32936756.65 32936756.77 0.1612 0.0416

Mars 85467-08-10 06:44 G 32937461.70 32937461.78 32937461.86 0.1624 0.1142

Mars 85468-06-19 13:12 G 32937775.92 32937776.05 32937776.19 0.1914 0.1060

Jupiter 85469-07-14 01:56 G 32938165.54 32938165.58 32938165.62 0.0511 0.0481

Jupiter 85469-10-11 07:56 G 32938254.70 32938254.83 32938254.95 0.0508 0.0196

Saturn 85470-01-06 16:48 G 32938342.11 32938342.20 32938342.31 0.0263 0.0176

Saturn 85470-04-05 03:08 G 32938430.50 32938430.63 32938430.77 0.0262 0.0074

Saturn 85470-07-02 13:41 G 32938518.93 32938519.07 32938519.20 0.0262 0.0031

Saturn 85470-09-29 00:00 G 32938607.39 32938607.50 32938607.62 0.0262 0.0135

Saturn 85470-12-26 10:48 G 32938695.89 32938695.95 32938696.00 0.0262 0.0241

Earth 85471-02-19 08:24 G 32938750.71 32938750.85 32938750.99 0.2708 0.0612

Moon 85471-02-19 08:53 G 32938750.73 32938750.87 32938751.01 0.2701 0.0520 *

Moon 85473-08-21 13:12 G 32939664.93 32939665.05 32939665.16 0.2619 0.0662

Earth 85473-08-21 12:58 G 32939664.93 32939665.04 32939665.16 0.2625 0.0600 *

Mars 85475-01-25 15:08 G 32940187.03 32940187.13 32940187.24 0.1609 0.0776

Jupiter 85475-12-10 03:36 G 32940505.47 32940505.65 32940505.82 0.0517 0.0063

Mars 85476-12-30 17:46 G 32940892.14 32940892.24 32940892.35 0.1621 0.0758

Mars 85477-11-09 06:58 G 32941205.63 32941205.79 32941205.96 0.1918 0.0144

Pluto 85479-07-27 10:48 G 32941830.89 32941830.95 32941831.03 0.0062 0.0056

Pluto 85479-10-23 11:32 G 32941918.88 32941918.98 32941919.12 0.0062 0.0046

Pluto 85480-01-19 12:44 G 32942006.90 32942007.03 32942007.18 0.0062 0.0035

Pluto 85480-04-16 13:41 G 32942094.92 32942095.07 32942095.24 0.0062 0.0025

Pluto 85480-07-13 14:53 G 32942182.95 32942183.12 32942183.29 0.0062 0.0014

Pluto 85480-10-09 15:51 G 32942270.99 32942271.16 32942271.34 0.0062 0.0004

Pluto 85481-01-05 16:48 G 32942359.03 32942359.20 32942359.38 0.0062 0.0007

Pluto 85481-04-03 17:46 G 32942447.08 32942447.24 32942447.41 0.0062 0.0017

Pluto 85481-06-30 18:29 G 32942535.13 32942535.27 32942535.44 0.0062 0.0028

Jupiter 85481-07-30 12:00 G 32942564.87 32942565.00 32942565.14 0.0509 0.0033

Pluto 85481-09-26 19:27 G 32942623.19 32942623.31 32942623.46 0.0062 0.0039

Pluto 85481-12-23 20:10 G 32942711.26 32942711.34 32942711.47 0.0062 0.0050

Pluto 85482-03-21 21:22 G 32942799.36 32942799.39 32942799.46 0.0062 0.0060

Moon 85484-02-22 11:03 G 32943501.84 32943501.96 32943502.08 0.2701 0.1577

Earth 85484-02-22 11:17 G 32943501.86 32943501.97 32943502.08 0.2708 0.1692 *

Mars 85484-06-17 02:53 G 32943617.53 32943617.62 32943617.70 0.1607 0.1133

Saturn 85485-02-02 16:34 G 32943848.13 32943848.19 32943848.25 0.0298 0.0280

Saturn 85485-05-02 16:48 G 32943937.03 32943937.20 32943937.38 0.0299 0.0073

Saturn 85485-07-30 16:48 G 32944026.04 32944026.20 32944026.36 0.0299 0.0131

Mars 85486-05-23 05:03 G 32944322.60 32944322.71 32944322.83 0.1618 0.0373

Moon 85486-08-24 07:27 G 32944415.73 32944415.81 32944415.90 0.2619 0.1830

Earth 85486-08-24 07:56 G 32944415.76 32944415.83 32944415.91 0.2625 0.1965 *

Mars 85487-04-01 00:15 G 32944635.40 32944635.51 32944635.63 0.1923 0.1385

Jupiter 85487-09-28 01:12 G 32944815.41 32944815.55 32944815.69 0.0517 0.0304

Venus 85490-03-31 01:27 G 32945730.47 32945730.56 32945730.65 0.3627 0.1617

Jupiter 85493-05-18 16:05 G 32946875.04 32946875.17 32946875.30 0.0509 0.0142

Earth 85493-08-17 04:20 G 32946965.60 32946965.68 32946965.77 0.2626 0.1803

Moon 85493-08-17 05:17 G 32946965.63 32946965.72 32946965.80 0.2626 0.1682 *

Mars 85493-11-07 14:24 G 32947048.06 32947048.10 32947048.14 0.1605 0.1484

Mars 85495-10-13 16:20 G 32947753.06 32947753.18 32947753.30 0.1615 0.0025

Venus 85495-10-14 17:03 G 32947754.10 32947754.21 32947754.31 0.3627 0.0676

Mars 85497-09-17 19:56 G 32948458.30 32948458.33 32948458.35 0.1628 0.1581

Saturn 85499-05-26 19:41 G 32949074.24 32949074.32 32949074.41 0.0263 0.0205

Saturn 85499-08-23 06:00 G 32949162.63 32949162.75 32949162.88 0.0263 0.0103

Jupiter 85499-10-15 06:29 G 32949215.68 32949215.77 32949215.86 0.0519 0.0435

Saturn 85499-11-19 16:20 G 32949251.05 32949251.18 32949251.32 0.0263 0.0005

Saturn 85500-02-16 02:53 G 32949339.49 32949339.62 32949339.74 0.0263 0.0105

Saturn 85500-05-15 13:27 G 32949427.98 32949428.06 32949428.14 0.0263 0.0211

Venus 85501-04-30 08:24 G 32949777.79 32949777.85 32949777.91 0.3628 0.2968

Uranus 85503-04-04 03:36 G 32950481.58 32950481.65 32950481.72 0.0144 0.0122

Uranus 85503-07-01 07:12 G 32950569.71 32950569.80 32950569.90 0.0144 0.0100

Uranus 85503-09-27 11:17 G 32950657.85 32950657.97 32950658.08 0.0144 0.0077

Uranus 85503-12-24 15:08 G 32950746.01 32950746.13 32950746.26 0.0144 0.0055

Earth 85504-02-18 11:03 G 32950801.91 32950801.96 32950802.01 0.2707 0.2545

Moon 85504-02-18 12:15 G 32950801.95 32950802.01 32950802.08 0.2704 0.2429 *

Uranus 85504-03-21 19:12 G 32950834.16 32950834.30 32950834.43 0.0144 0.0032

Uranus 85504-06-17 23:03 G 32950922.33 32950922.46 32950922.60 0.0144 0.0009

Uranus 85504-09-14 03:08 G 32951010.49 32951010.63 32951010.77 0.0144 0.0014

Uranus 85504-12-11 06:58 G 32951098.66 32951098.79 32951098.93 0.0144 0.0038

Mars 85505-03-06 03:36 G 32951183.54 32951183.65 32951183.77 0.1612 0.0378

Jupiter 85505-03-07 20:10 G 32951185.24 32951185.34 32951185.44 0.0510 0.0313

Uranus 85505-03-09 11:03 G 32951186.84 32951186.96 32951187.09 0.0144 0.0061

Venus 85505-04-27 07:56 G 32951235.72 32951235.83 32951235.95 0.3745 0.2398

Jupiter 85505-06-05 01:56 G 32951274.49 32951274.58 32951274.68 0.0507 0.0364

Uranus 85505-06-05 15:08 G 32951275.02 32951275.13 32951275.25 0.0144 0.0084

Uranus 85505-09-01 19:12 G 32951363.22 32951363.30 32951363.40 0.0144 0.0108

Uranus 85505-11-28 23:17 G 32951451.43 32951451.47 32951451.53 0.0144 0.0132

Earth 85506-08-20 23:03 G 32951716.35 32951716.46 32951716.58 0.2625 0.0494

Moon 85506-08-20 23:46 G 32951716.37 32951716.49 32951716.61 0.2621 0.0400 *

Mars 85507-02-09 06:44 G 32951888.70 32951888.78 32951888.86 0.1624 0.1184

Mars 85507-12-20 13:56 G 32952202.95 32952203.08 32952203.21 0.1913 0.1132

Jupiter 85511-08-04 03:51 G 32953525.50 32953525.66 32953525.82 0.0518 0.0186

Mars 85514-07-27 15:08 G 32954614.03 32954614.13 32954614.23 0.1609 0.0741

Saturn 85514-09-20 17:32 G 32954669.07 32954669.23 32954669.40 0.0299 0.0115

Saturn 85514-12-18 17:32 G 32954758.06 32954758.23 32954758.40 0.0299 0.0090

Saturn 85515-03-17 17:03 G 32954847.17 32954847.21 32954847.25 0.0299 0.0290

Mars 85516-07-01 17:46 G 32955319.14 32955319.24 32955319.35 0.1621 0.0793

Neptune 85516-09-28 21:51 G 32955408.41 32955408.41 32955408.45 0.0088 0.0087

Jupiter 85516-12-25 00:00 G 32955495.47 32955495.50 32955495.53 0.0511 0.0489

Neptune 85516-12-25 23:46 G 32955496.43 32955496.49 32955496.54 0.0088 0.0079

Earth 85517-02-20 14:24 G 32955552.96 32955553.10 32955553.24 0.2708 0.0171

Moon 85517-02-20 14:39 G 32955552.97 32955553.11 32955553.26 0.2701 0.0146 *

Neptune 85517-03-24 00:58 G 32955584.47 32955584.54 32955584.62 0.0088 0.0072

Jupiter 85517-03-24 05:46 G 32955584.62 32955584.74 32955584.86 0.0508 0.0188 *

Mars 85517-05-11 07:41 G 32955632.66 32955632.82 32955632.98 0.1918 0.0065

Neptune 85517-06-20 02:24 G 32955672.52 32955672.60 32955672.70 0.0088 0.0065

Neptune 85517-09-16 03:51 G 32955760.57 32955760.66 32955760.77 0.0088 0.0058

Neptune 85517-12-13 05:17 G 32955848.62 32955848.72 32955848.84 0.0088 0.0051

Neptune 85518-03-11 06:58 G 32955936.67 32955936.79 32955936.91 0.0088 0.0043

Neptune 85518-06-07 08:24 G 32956024.72 32956024.85 32956024.98 0.0088 0.0036

Neptune 85518-09-03 09:51 G 32956112.78 32956112.91 32956113.04 0.0088 0.0028

Neptune 85518-11-30 11:17 G 32956200.84 32956200.97 32956201.11 0.0088 0.0021

Neptune 85519-02-26 12:44 G 32956288.90 32956289.03 32956289.17 0.0088 0.0014

Neptune 85519-05-25 14:24 G 32956376.96 32956377.10 32956377.24 0.0088 0.0007

Neptune 85519-08-21 15:51 G 32956465.02 32956465.16 32956465.30 0.0088 0.0002

Moon 85519-08-23 18:00 G 32956467.14 32956467.25 32956467.36 0.2619 0.0825

Earth 85519-08-23 18:00 G 32956467.14 32956467.25 32956467.36 0.2625 0.0862 *

Neptune 85519-11-17 17:17 G 32956553.08 32956553.22 32956553.36 0.0088 0.0009

Neptune 85520-02-13 18:44 G 32956641.14 32956641.28 32956641.42 0.0088 0.0016

Neptune 85520-05-11 20:10 G 32956729.21 32956729.34 32956729.48 0.0088 0.0024

Neptune 85520-08-07 21:51 G 32956817.28 32956817.41 32956817.54 0.0088 0.0031

Neptune 85520-11-03 23:03 G 32956905.34 32956905.46 32956905.60 0.0088 0.0039

Neptune 85521-01-31 00:44 G 32956993.41 32956993.53 32956993.65 0.0088 0.0046

Neptune 85521-04-29 02:10 G 32957081.49 32957081.59 32957081.71 0.0088 0.0054

Neptune 85521-07-26 03:51 G 32957169.56 32957169.66 32957169.76 0.0088 0.0061

Neptune 85521-10-22 05:03 G 32957257.64 32957257.71 32957257.81 0.0088 0.0069

Neptune 85522-01-18 06:58 G 32957345.72 32957345.79 32957345.86 0.0088 0.0076

Neptune 85522-04-16 08:10 G 32957433.81 32957433.84 32957433.89 0.0088 0.0084

Jupiter 85523-05-23 01:12 G 32957835.38 32957835.55 32957835.73 0.0517 0.0062

Mars 85523-12-18 02:39 G 32958044.53 32958044.61 32958044.70 0.1607 0.1096

Mars 85525-11-22 05:03 G 32958749.59 32958749.71 32958749.82 0.1618 0.0407

Mars 85526-10-01 01:12 G 32959062.43 32959062.55 32959062.68 0.1923 0.1291

Saturn 85528-10-13 23:46 G 32959806.42 32959806.49 32959806.55 0.0263 0.0224

Jupiter 85529-01-10 09:51 G 32959894.78 32959894.91 32959895.05 0.0509 0.0026

Saturn 85529-01-10 09:51 G 32959894.79 32959894.91 32959895.03 0.0263 0.0122 *

Saturn 85529-04-08 20:10 G 32959983.21 32959983.34 32959983.48 0.0262 0.0019

Saturn 85529-07-06 06:44 G 32960071.65 32960071.78 32960071.91 0.0262 0.0085

Saturn 85529-10-02 17:03 G 32960160.12 32960160.21 32960160.31 0.0262 0.0190

Moon 85530-02-23 16:48 G 32960304.12 32960304.20 32960304.29 0.2702 0.2109

Earth 85530-02-23 17:17 G 32960304.14 32960304.22 32960304.31 0.2708 0.2124 *

Moon 85532-08-25 12:29 G 32961217.96 32961218.02 32961218.08 0.2619 0.2229

Earth 85532-08-25 12:58 G 32961217.98 32961218.04 32961218.10 0.2625 0.2238 *

Mars 85533-05-09 14:24 G 32961475.05 32961475.10 32961475.14 0.1605 0.1449

Jupiter 85535-03-10 22:05 G 32962145.28 32962145.42 32962145.56 0.0517 0.0319

Mars 85535-04-14 16:20 G 32962180.06 32962180.18 32962180.30 0.1615 0.0034

Mars 85537-03-19 19:41 G 32962885.31 32962885.32 32962885.33 0.1628 0.1616

Earth 85539-08-19 09:22 G 32963767.80 32963767.89 32963767.98 0.2626 0.1542

Moon 85539-08-19 10:05 G 32963767.83 32963767.92 32963768.02 0.2624 0.1500 *

Jupiter 85540-10-29 14:10 G 32964204.97 32964205.09 32964205.22 0.0510 0.0148

Venus 85541-04-22 07:27 G 32964379.75 32964379.81 32964379.86 0.3627 0.3024

Saturn 85544-02-07 16:48 G 32965401.05 32965401.20 32965401.35 0.0299 0.0167

Saturn 85544-05-06 16:48 G 32965490.03 32965490.20 32965490.38 0.0299 0.0039

Saturn 85544-08-03 16:20 G 32965579.09 32965579.18 32965579.29 0.0299 0.0240

Mars 85544-09-04 03:36 G 32965610.54 32965610.65 32965610.77 0.1612 0.0341

Uranus 85545-01-23 18:29 G 32965752.23 32965752.27 32965752.33 0.0134 0.0129

Uranus 85545-04-22 00:58 G 32965840.44 32965840.54 32965840.67 0.0134 0.0104

Uranus 85545-07-19 07:27 G 32965928.68 32965928.81 32965928.97 0.0134 0.0079

Uranus 85545-10-15 13:56 G 32966016.93 32966017.08 32966017.26 0.0134 0.0054

Uranus 85546-01-11 20:39 G 32966105.18 32966105.36 32966105.54 0.0134 0.0028

Uranus 85546-04-10 02:53 G 32966193.44 32966193.62 32966193.81 0.0134 0.0004

Uranus 85546-07-07 09:22 G 32966281.71 32966281.89 32966282.07 0.0134 0.0022

Mars 85546-08-10 06:44 G 32966315.71 32966315.78 32966315.86 0.1624 0.1222

Uranus 85546-10-03 15:22 G 32966369.98 32966370.14 32966370.32 0.0134 0.0046

Venus 85546-11-05 22:48 G 32966403.35 32966403.45 32966403.55 0.3627 0.0775

Uranus 85546-12-30 21:36 G 32966458.26 32966458.40 32966458.56 0.0134 0.0071

Jupiter 85547-03-28 03:22 G 32966545.54 32966545.64 32966545.75 0.0519 0.0419

Uranus 85547-03-29 03:51 G 32966546.54 32966546.66 32966546.79 0.0134 0.0094

Mars 85547-06-20 14:39 G 32966629.99 32966630.11 32966630.24 0.1913 0.1218

Uranus 85547-06-25 09:51 G 32966634.84 32966634.91 32966635.00 0.0134 0.0119

Earth 85550-02-18 17:17 G 32967604.13 32967604.22 32967604.31 0.2707 0.2102

Moon 85550-02-18 18:15 G 32967604.16 32967604.26 32967604.36 0.2703 0.1891 *

Venus 85552-05-21 14:24 G 32968427.00 32968427.10 32968427.19 0.3627 0.1510

Jupiter 85552-08-17 18:29 G 32968515.17 32968515.27 32968515.37 0.0510 0.0315

Earth 85552-08-21 04:05 G 32968518.56 32968518.67 32968518.79 0.2625 0.0223

Moon 85552-08-21 04:34 G 32968518.58 32968518.69 32968518.81 0.2621 0.0175 *

Jupiter 85552-11-15 00:15 G 32968604.42 32968604.51 32968604.61 0.0507 0.0363

Mars 85554-01-25 15:08 G 32969041.03 32969041.13 32969041.24 0.1609 0.0702

Mars 85555-12-31 17:46 G 32969746.14 32969746.24 32969746.34 0.1621 0.0829

Mars 85556-11-09 08:39 G 32970059.70 32970059.86 32970060.02 0.1918 0.0027

Saturn 85558-03-03 02:24 G 32970538.57 32970538.60 32970538.63 0.0263 0.0254

Saturn 85558-05-30 12:29 G 32970626.91 32970627.02 32970627.13 0.0263 0.0153

Saturn 85558-08-26 22:48 G 32970715.32 32970715.45 32970715.59 0.0263 0.0050

Saturn 85558-11-23 09:22 G 32970803.75 32970803.89 32970804.02 0.0263 0.0055

Jupiter 85559-01-14 01:12 G 32970855.39 32970855.55 32970855.72 0.0519 0.0179

Saturn 85559-02-19 19:41 G 32970892.22 32970892.32 32970892.43 0.0263 0.0159

Venus 85561-12-02 09:36 G 32971908.75 32971908.90 32971909.05 0.3745 0.0170

Moon 85563-02-21 20:53 G 32972355.22 32972355.37 32972355.51 0.2700 0.0276

Earth 85563-02-21 20:39 G 32972355.22 32972355.36 32972355.50 0.2708 0.0278 *

Mars 85563-06-18 02:39 G 32972471.52 32972471.61 32972471.70 0.1607 0.1061

Jupiter 85564-06-05 22:34 G 32972825.40 32972825.44 32972825.48 0.0511 0.0484

Jupiter 85564-09-03 04:20 G 32972914.56 32972914.68 32972914.80 0.0508 0.0191

Mars 85565-05-23 05:03 G 32973176.60 32973176.71 32973176.82 0.1618 0.0446

Moon 85565-08-23 22:48 G 32973269.34 32973269.45 32973269.56 0.2618 0.1120

Earth 85565-08-23 23:03 G 32973269.35 32973269.46 32973269.56 0.2625 0.1134 *

Mars 85566-04-01 01:56 G 32973489.45 32973489.58 32973489.70 0.1923 0.1218

Jupiter 85570-11-01 22:34 G 32975165.27 32975165.44 32975165.62 0.0517 0.0069

Pluto 85571-06-05 11:46 G 32975380.93 32975380.99 32975381.06 0.0082 0.0073

Pluto 85571-09-01 12:58 G 32975468.94 32975469.04 32975469.16 0.0082 0.0053

Pluto 85571-11-28 14:24 G 32975556.98 32975557.10 32975557.25 0.0082 0.0033

Pluto 85572-02-24 16:05 G 32975645.03 32975645.17 32975645.32 0.0082 0.0012

Pluto 85572-05-22 17:32 G 32975733.08 32975733.23 32975733.38 0.0082 0.0008

Earth 85572-08-16 19:41 G 32975819.30 32975819.32 32975819.34 0.2626 0.2581

Moon 85572-08-16 20:24 G 32975819.33 32975819.35 32975819.37 0.2630 0.2573 *

Pluto 85572-08-18 18:44 G 32975821.15 32975821.28 32975821.42 0.0081 0.0029

Mars 85572-11-07 14:10 G 32975902.04 32975902.09 32975902.14 0.1605 0.1413

Pluto 85572-11-14 20:24 G 32975909.23 32975909.35 32975909.46 0.0081 0.0049

Pluto 85573-02-10 21:22 G 32975997.33 32975997.39 32975997.48 0.0081 0.0069

Saturn 85573-06-26 16:48 G 32976133.08 32976133.20 32976133.33 0.0299 0.0214

Saturn 85573-09-23 17:17 G 32976222.04 32976222.22 32976222.40 0.0299 0.0007

Saturn 85573-12-21 17:03 G 32976311.08 32976311.21 32976311.34 0.0299 0.0196

Mars 85574-10-13 16:20 G 32976607.06 32976607.18 32976607.30 0.1615 0.0069

Moon 85576-02-24 22:34 G 32977106.38 32977106.44 32977106.50 0.2703 0.2438

Earth 85576-02-24 23:17 G 32977106.43 32977106.47 32977106.52 0.2708 0.2550 *

Jupiter 85576-06-22 07:56 G 32977224.70 32977224.83 32977224.97 0.0509 0.0020

Moon 85578-08-26 17:17 G 32978020.18 32978020.22 32978020.27 0.2621 0.2388

Earth 85578-08-26 18:00 G 32978020.22 32978020.25 32978020.28 0.2625 0.2513 *

Jupiter 85582-08-20 19:56 G 32979475.19 32979475.33 32979475.47 0.0516 0.0315

Mars 85584-03-05 03:36 G 32980037.53 32980037.65 32980037.77 0.1612 0.0303

Earth 85585-08-19 14:24 G 32980570.00 32980570.10 32980570.20 0.2626 0.1287

Moon 85585-08-19 15:08 G 32980570.02 32980570.13 32980570.23 0.2623 0.1122 *

Mars 85586-02-08 06:44 G 32980742.71 32980742.78 32980742.85 0.1624 0.1252

Mars 85586-12-19 15:36 G 32981057.03 32981057.15 32981057.27 0.1914 0.1300

Uranus 85587-01-26 06:29 G 32981094.75 32981094.77 32981094.80 0.0144 0.0140

Uranus 85587-04-24 10:20 G 32981182.86 32981182.93 32981183.01 0.0144 0.0118

Uranus 85587-07-21 14:10 G 32981271.00 32981271.09 32981271.20 0.0144 0.0095

Saturn 85587-10-17 16:20 G 32981359.08 32981359.18 32981359.28 0.0263 0.0172

Uranus 85587-10-17 18:15 G 32981359.14 32981359.26 32981359.38 0.0144 0.0073 *

Uranus 85588-01-13 22:05 G 32981447.29 32981447.42 32981447.55 0.0144 0.0050

Saturn 85588-01-14 02:39 G 32981447.48 32981447.61 32981447.74 0.0262 0.0070 *

Jupiter 85588-04-10 12:15 G 32981534.88 32981535.01 32981535.13 0.0510 0.0157

Uranus 85588-04-11 01:56 G 32981535.45 32981535.58 32981535.72 0.0144 0.0028

Saturn 85588-04-11 12:58 G 32981535.91 32981536.04 32981536.18 0.0262 0.0034

Uranus 85588-07-08 06:00 G 32981623.61 32981623.75 32981623.89 0.0144 0.0005

Saturn 85588-07-08 23:32 G 32981624.36 32981624.48 32981624.59 0.0262 0.0138

Uranus 85588-10-04 10:05 G 32981711.78 32981711.92 32981712.06 0.0144 0.0019

Saturn 85588-10-05 09:51 G 32981712.87 32981712.91 32981712.97 0.0262 0.0244

Uranus 85588-12-31 13:56 G 32981799.95 32981800.08 32981800.22 0.0144 0.0042

Uranus 85589-03-29 18:00 G 32981888.13 32981888.25 32981888.38 0.0144 0.0066

Uranus 85589-06-25 22:05 G 32981976.31 32981976.42 32981976.53 0.0144 0.0089

Uranus 85589-09-22 02:10 G 32982064.51 32982064.59 32982064.68 0.0144 0.0112

Uranus 85589-12-19 06:15 G 32982152.72 32982152.76 32982152.81 0.0144 0.0136

Mars 85593-07-26 15:08 G 32983468.02 32983468.13 32983468.24 0.1609 0.0665

Jupiter 85594-09-07 00:29 G 32983875.42 32983875.52 32983875.63 0.0519 0.0408

Mars 85595-07-01 17:46 G 32984173.14 32984173.24 32984173.34 0.1621 0.0868

Earth 85596-02-19 23:17 G 32984406.36 32984406.47 32984406.59 0.2707 0.1653

Moon 85596-02-20 00:15 G 32984406.39 32984406.51 32984406.62 0.2702 0.1636 *

Mars 85596-05-10 09:36 G 32984486.73 32984486.90 32984487.06 0.1918 0.0123

Venus 85597-11-27 04:48 G 32985052.62 32985052.70 32985052.78 0.3627 0.2189

Earth 85598-08-22 09:08 G 32985320.76 32985320.88 32985321.00 0.2625 0.0055

Moon 85598-08-22 09:22 G 32985320.78 32985320.89 32985321.01 0.2620 0.0115 *

Neptune 85599-12-24 20:39 G 32985810.31 32985810.36 32985810.44 0.0090 0.0084

Jupiter 85600-01-28 16:34 G 32985845.09 32985845.19 32985845.29 0.0511 0.0321

Neptune 85600-03-21 23:46 G 32985898.40 32985898.49 32985898.61 0.0090 0.0074

Jupiter 85600-04-26 22:34 G 32985934.34 32985934.44 32985934.53 0.0508 0.0359

Neptune 85600-06-18 03:08 G 32985986.51 32985986.63 32985986.77 0.0090 0.0063

Neptune 85600-09-14 06:15 G 32986074.62 32986074.76 32986074.92 0.0090 0.0053

Neptune 85600-12-11 09:36 G 32986162.74 32986162.90 32986163.06 0.0090 0.0042

Neptune 85601-03-09 12:44 G 32986250.86 32986251.03 32986251.20 0.0090 0.0032

Neptune 85601-06-05 15:51 G 32986338.99 32986339.16 32986339.34 0.0090 0.0022

Neptune 85601-09-01 18:58 G 32986427.12 32986427.29 32986427.48 0.0090 0.0011

Neptune 85601-11-28 22:20 G 32986515.24 32986515.43 32986515.61 0.0090 0.0002

Neptune 85602-02-25 01:12 G 32986603.38 32986603.55 32986603.74 0.0090 0.0010

Neptune 85602-05-24 04:20 G 32986691.51 32986691.68 32986691.86 0.0090 0.0020

Neptune 85602-08-20 07:27 G 32986779.64 32986779.81 32986779.98 0.0090 0.0030

Saturn 85602-11-13 15:51 G 32986865.09 32986865.16 32986865.24 0.0299 0.0269

Neptune 85602-11-16 10:20 G 32986867.78 32986867.93 32986868.10 0.0090 0.0040

Mars 85602-12-17 02:39 G 32986898.52 32986898.61 32986898.70 0.1607 0.1023

Saturn 85603-02-10 16:20 G 32986954.01 32986954.18 32986954.36 0.0299 0.0061

Neptune 85603-02-12 13:27 G 32986955.92 32986956.06 32986956.22 0.0090 0.0050

Saturn 85603-05-10 16:05 G 32987043.02 32987043.17 32987043.33 0.0299 0.0143

Neptune 85603-05-11 16:34 G 32987044.06 32987044.19 32987044.33 0.0090 0.0060

Venus 85603-06-12 20:10 G 32987076.24 32987076.34 32987076.45 0.3627 0.0089

Neptune 85603-08-07 19:27 G 32987132.21 32987132.31 32987132.43 0.0090 0.0070

Neptune 85603-11-03 22:34 G 32987220.37 32987220.44 32987220.53 0.0090 0.0080

Mars 85604-11-21 05:03 G 32987603.60 32987603.71 32987603.82 0.1618 0.0482

Mars 85605-09-30 02:39 G 32987916.48 32987916.61 32987916.75 0.1923 0.1127

Jupiter 85606-06-25 22:20 G 32988185.27 32988185.43 32988185.60 0.0518 0.0167

Venus 85608-12-26 11:46 G 32989099.91 32989099.99 32989100.07 0.3627 0.2362

Earth 85609-02-22 02:39 G 32989157.47 32989157.61 32989157.75 0.2708 0.0703

Moon 85609-02-22 02:53 G 32989157.48 32989157.62 32989157.75 0.2701 0.0772 *

Moon 85611-08-25 03:51 G 32990071.56 32990071.66 32990071.76 0.2618 0.1380

Earth 85611-08-25 04:05 G 32990071.57 32990071.67 32990071.76 0.2625 0.1409 *

Jupiter 85611-11-16 20:53 G 32990155.33 32990155.37 32990155.41 0.0511 0.0485

Jupiter 85612-02-14 02:39 G 32990244.49 32990244.61 32990244.73 0.0508 0.0191

Mars 85612-05-08 14:10 G 32990329.04 32990329.09 32990329.15 0.1605 0.1376

Mars 85614-04-13 16:20 G 32991034.06 32991034.18 32991034.30 0.1615 0.0106

Saturn 85617-03-05 18:44 G 32992091.21 32992091.28 32992091.37 0.0263 0.0204

Saturn 85617-06-02 05:03 G 32992179.59 32992179.71 32992179.84 0.0263 0.0102

Saturn 85617-08-29 15:22 G 32992268.01 32992268.14 32992268.28 0.0263 0.0009

Saturn 85617-11-26 01:56 G 32992356.45 32992356.58 32992356.70 0.0262 0.0106

Saturn 85618-02-22 12:15 G 32992444.94 32992445.01 32992445.10 0.0262 0.0212

Jupiter 85618-04-13 19:56 G 32992495.16 32992495.33 32992495.51 0.0518 0.0076

Venus 85618-07-09 11:17 G 32992581.87 32992581.97 32992582.08 0.3745 0.2671

Earth 85618-08-18 00:44 G 32992621.48 32992621.53 32992621.58 0.2626 0.2328

Moon 85618-08-18 01:27 G 32992621.49 32992621.56 32992621.62 0.2628 0.2183 *

Mars 85623-09-04 03:36 G 32994464.53 32994464.65 32994464.77 0.1612 0.0266

Jupiter 85623-12-03 06:44 G 32994554.65 32994554.78 32994554.91 0.0509 0.0021

Mars 85625-08-09 06:44 G 32995169.71 32995169.78 32995169.85 0.1624 0.1294

Mars 85626-06-19 16:20 G 32995484.07 32995484.18 32995484.29 0.1913 0.1377

Uranus 85629-02-13 01:41 G 32996453.50 32996453.57 32996453.65 0.0134 0.0121

Uranus 85629-05-12 08:10 G 32996541.72 32996541.84 32996541.97 0.0134 0.0096

Uranus 85629-08-08 14:39 G 32996629.96 32996630.11 32996630.27 0.0134 0.0071

Uranus 85629-11-04 21:08 G 32996718.21 32996718.38 32996718.56 0.0134 0.0046

Jupiter 85630-01-30 17:32 G 32996805.09 32996805.23 32996805.37 0.0517 0.0319

Uranus 85630-02-01 03:36 G 32996806.47 32996806.65 32996806.83 0.0134 0.0021

Uranus 85630-04-30 10:05 G 32996894.74 32996894.92 32996895.10 0.0134 0.0004

Uranus 85630-07-27 16:20 G 32996983.00 32996983.18 32996983.36 0.0134 0.0029

Uranus 85630-10-23 22:20 G 32997071.28 32997071.43 32997071.61 0.0134 0.0054

Uranus 85631-01-20 04:48 G 32997159.55 32997159.70 32997159.85 0.0134 0.0077

Uranus 85631-04-18 10:48 G 32997247.84 32997247.95 32997248.08 0.0134 0.0102

Uranus 85631-07-15 17:03 G 32997336.15 32997336.21 32997336.28 0.0134 0.0125

Earth 85631-08-20 19:12 G 32997372.20 32997372.30 32997372.41 0.2626 0.1024

Moon 85631-08-20 20:10 G 32997372.23 32997372.34 32997372.44 0.2623 0.0996 *

Saturn 85632-06-29 15:36 G 32997685.99 32997686.15 32997686.32 0.0299 0.0114

Saturn 85632-09-26 15:51 G 32997774.99 32997775.16 32997775.33 0.0299 0.0092

Saturn 85632-12-24 15:22 G 32997864.11 32997864.14 32997864.18 0.0299 0.0293

Mars 85633-01-24 15:08 G 32997895.02 32997895.13 32997895.23 0.1609 0.0634

Mars 85634-12-30 17:46 G 32998600.14 32998600.24 32998600.34 0.1621 0.0900

Jupiter 85635-09-21 10:20 G 32998864.81 32998864.93 32998865.06 0.0510 0.0160

Mars 85635-11-09 10:05 G 32998913.76 32998913.92 32998914.08 0.1919 0.0184

Jupiter 85642-02-16 22:48 G 33001205.35 33001205.45 33001205.56 0.0518 0.0417

Earth 85642-02-20 05:32 G 33001208.60 33001208.73 33001208.86 0.2707 0.1202

Moon 85642-02-20 06:15 G 33001208.63 33001208.76 33001208.90 0.2701 0.1002 *

Mars 85642-06-17 02:39 G 33001325.52 33001325.61 33001325.70 0.1607 0.0987

Mars 85644-05-22 05:03 G 33002030.59 33002030.71 33002030.82 0.1618 0.0518

Earth 85644-08-22 14:10 G 33002122.97 33002123.09 33002123.20 0.2625 0.0327

Moon 85644-08-22 14:10 G 33002122.98 33002123.09 33002123.21 0.2619 0.0401 *

Mars 85645-03-31 03:51 G 33002343.52 33002343.66 33002343.80 0.1923 0.1025

Saturn 85646-07-23 22:34 G 33002823.37 33002823.44 33002823.51 0.0263 0.0224

Saturn 85646-10-20 08:39 G 33002911.75 33002911.86 33002911.99 0.0262 0.0123

Saturn 85647-01-16 18:58 G 33003000.16 33003000.29 33003000.43 0.0262 0.0021

Saturn 85647-04-15 05:32 G 33003088.60 33003088.73 33003088.86 0.0262 0.0084

Jupiter 85647-07-10 14:39 G 33003175.01 33003175.11 33003175.21 0.0511 0.0328

Saturn 85647-07-12 15:51 G 33003177.07 33003177.16 33003177.26 0.0262 0.0189

Jupiter 85647-10-07 20:39 G 33003264.26 33003264.36 33003264.45 0.0508 0.0352

Venus 85648-12-18 10:48 G 33003701.94 33003701.95 33003701.96 0.3627 0.3586

Mars 85651-11-07 14:10 G 33004756.03 33004756.09 33004756.15 0.1605 0.1340

Mars 85653-10-12 16:20 G 33005461.06 33005461.18 33005461.30 0.1615 0.0143

Jupiter 85653-12-05 19:56 G 33005515.17 33005515.33 33005515.50 0.0518 0.0164

Venus 85654-07-04 02:10 G 33005725.49 33005725.59 33005725.69 0.3627 0.1350

Moon 85655-02-23 08:39 G 33005959.73 33005959.86 33005959.99 0.2701 0.1050

Earth 85655-02-23 08:39 G 33005959.73 33005959.86 33005959.99 0.2708 0.1142 *

Moon 85657-08-25 08:39 G 33006873.77 33006873.86 33006873.95 0.2619 0.1614

Earth 85657-08-25 08:53 G 33006873.78 33006873.87 33006873.96 0.2625 0.1676 *

Jupiter 85659-04-28 18:58 G 33007485.26 33007485.29 33007485.33 0.0511 0.0491

Jupiter 85659-07-27 00:58 G 33007574.41 33007574.54 33007574.66 0.0509 0.0188

Venus 85660-01-17 17:32 G 33007749.13 33007749.23 33007749.33 0.3627 0.0929

Saturn 85661-11-16 14:39 G 33008417.97 33008418.11 33008418.26 0.0299 0.0169

Saturn 85662-02-13 14:53 G 33008506.95 33008507.12 33008507.30 0.0299 0.0038

Saturn 85662-05-13 14:24 G 33008596.01 33008596.10 33008596.21 0.0299 0.0241

Mars 85663-03-05 03:36 G 33008891.53 33008891.65 33008891.77 0.1612 0.0230

Earth 85664-08-18 05:32 G 33009423.66 33009423.73 33009423.80 0.2626 0.2068

Moon 85664-08-18 06:29 G 33009423.69 33009423.77 33009423.84 0.2626 0.2017 *

Mars 85665-02-07 06:44 G 33009596.72 33009596.78 33009596.85 0.1624 0.1329

Venus 85665-08-02 09:08 G 33009772.84 33009772.88 33009772.93 0.3627 0.3233

Jupiter 85665-09-23 17:32 G 33009825.06 33009825.23 33009825.41 0.0517 0.0080

Mars 85665-12-18 17:03 G 33009911.10 33009911.21 33009911.31 0.1913 0.1454

Venus 85669-07-30 05:03 G 33011230.60 33011230.71 33011230.82 0.3745 0.2490

Uranus 85671-02-15 13:27 G 33011796.02 33011796.06 33011796.10 0.0144 0.0136

Uranus 85671-05-14 17:03 G 33011884.14 33011884.21 33011884.30 0.0144 0.0114

Jupiter 85671-05-15 05:17 G 33011884.58 33011884.72 33011884.85 0.0509 0.0025

Uranus 85671-08-10 20:53 G 33011972.28 33011972.37 33011972.49 0.0144 0.0092

Uranus 85671-11-07 00:58 G 33012060.42 33012060.54 33012060.66 0.0144 0.0069

Uranus 85672-02-03 05:03 G 33012148.58 33012148.71 33012148.84 0.0144 0.0046

Uranus 85672-05-01 08:53 G 33012236.74 33012236.87 33012237.01 0.0144 0.0023

Mars 85672-07-25 15:08 G 33012322.02 33012322.13 33012322.24 0.1609 0.0593

Uranus 85672-07-28 12:58 G 33012324.90 33012325.04 33012325.17 0.0144 0.0003

Uranus 85672-10-24 16:48 G 33012413.07 33012413.20 33012413.34 0.0144 0.0023

Uranus 85673-01-20 20:53 G 33012501.24 33012501.37 33012501.50 0.0144 0.0046

Uranus 85673-04-19 00:44 G 33012589.42 33012589.53 33012589.66 0.0144 0.0070

Uranus 85673-07-16 04:48 G 33012677.60 33012677.70 33012677.81 0.0144 0.0093

Uranus 85673-10-12 08:53 G 33012765.80 33012765.87 33012765.96 0.0144 0.0116

Uranus 85674-01-08 12:58 G 33012854.02 33012854.04 33012854.08 0.0144 0.0140

Mars 85674-06-30 17:46 G 33013027.15 33013027.24 33013027.34 0.1621 0.0939

Mars 85675-05-10 11:03 G 33013340.80 33013340.96 33013341.13 0.1918 0.0284

Saturn 85675-12-11 00:58 G 33013555.52 33013555.54 33013555.57 0.0263 0.0257

Saturn 85676-03-08 11:03 G 33013643.86 33013643.96 33013644.07 0.0263 0.0156

Saturn 85676-06-04 21:22 G 33013732.26 33013732.39 33013732.53 0.0262 0.0054

Saturn 85676-09-01 07:41 G 33013820.69 33013820.82 33013820.96 0.0262 0.0050

Saturn 85676-11-28 18:15 G 33013909.15 33013909.26 33013909.37 0.0262 0.0154

Saturn 85677-02-25 04:34 G 33013997.69 33013997.69 33013997.72 0.0262 0.0260

Jupiter 85677-07-12 15:08 G 33014134.99 33014135.13 33014135.27 0.0517 0.0323

Earth 85677-08-21 00:15 G 33014174.40 33014174.51 33014174.62 0.2625 0.0758

Moon 85677-08-21 00:58 G 33014174.43 33014174.54 33014174.65 0.2623 0.0604 *

Neptune 85681-06-25 21:36 G 33015579.37 33015579.40 33015579.46 0.0088 0.0083

Neptune 85681-09-21 23:17 G 33015667.40 33015667.47 33015667.54 0.0088 0.0075

Mars 85681-12-16 02:39 G 33015752.51 33015752.61 33015752.70 0.1607 0.0954

Neptune 85681-12-19 00:44 G 33015755.45 33015755.53 33015755.62 0.0088 0.0068

Neptune 85682-03-17 02:10 G 33015843.50 33015843.59 33015843.69 0.0088 0.0061

Neptune 85682-06-13 03:22 G 33015931.55 33015931.64 33015931.76 0.0088 0.0054

Neptune 85682-09-09 05:17 G 33016019.60 33016019.72 33016019.83 0.0088 0.0046

Neptune 85682-12-06 06:29 G 33016107.65 33016107.77 33016107.90 0.0088 0.0039

Jupiter 85683-03-03 09:22 G 33016194.77 33016194.89 33016195.02 0.0510 0.0146

Neptune 85683-03-04 07:56 G 33016195.71 33016195.83 33016195.97 0.0088 0.0032

Neptune 85683-05-31 09:36 G 33016283.77 33016283.90 33016284.03 0.0088 0.0024

Neptune 85683-08-27 11:03 G 33016371.82 33016371.96 33016372.10 0.0088 0.0017

Mars 85683-11-21 05:03 G 33016457.60 33016457.71 33016457.82 0.1618 0.0555

Neptune 85683-11-23 12:29 G 33016459.88 33016460.02 33016460.16 0.0088 0.0009

Neptune 85684-02-19 13:56 G 33016547.94 33016548.08 33016548.22 0.0088 0.0003

Neptune 85684-05-17 15:22 G 33016636.01 33016636.14 33016636.28 0.0088 0.0006

Neptune 85684-08-13 17:03 G 33016724.07 33016724.21 33016724.35 0.0088 0.0013

Mars 85684-09-29 04:20 G 33016770.53 33016770.68 33016770.82 0.1923 0.0962

Neptune 85684-11-09 18:15 G 33016812.13 33016812.26 33016812.41 0.0088 0.0021

Neptune 85685-02-05 19:56 G 33016900.20 33016900.33 33016900.46 0.0088 0.0028

Neptune 85685-05-04 21:22 G 33016988.27 33016988.39 33016988.52 0.0088 0.0035

Neptune 85685-07-31 22:48 G 33017076.33 33017076.45 33017076.58 0.0088 0.0043

Neptune 85685-10-28 00:15 G 33017164.41 33017164.51 33017164.63 0.0088 0.0051

Neptune 85686-01-24 01:56 G 33017252.48 33017252.58 33017252.69 0.0088 0.0058

Neptune 85686-04-22 03:08 G 33017340.55 33017340.63 33017340.74 0.0088 0.0066

Neptune 85686-07-19 04:48 G 33017428.63 33017428.70 33017428.79 0.0088 0.0073

Neptune 85686-10-15 06:15 G 33017516.72 33017516.76 33017516.83 0.0088 0.0081

Earth 85688-02-21 11:46 G 33018010.85 33018010.99 33018011.12 0.2707 0.0763

Moon 85688-02-21 12:29 G 33018010.88 33018011.02 33018011.16 0.2701 0.0771 *

Jupiter 85689-07-29 20:39 G 33018535.27 33018535.36 33018535.47 0.0519 0.0420

Moon 85690-08-23 19:12 G 33018925.18 33018925.30 33018925.41 0.2618 0.0532

Earth 85690-08-23 18:58 G 33018925.18 33018925.29 33018925.41 0.2625 0.0585 *

Saturn 85691-04-05 12:29 G 33019149.92 33019150.02 33019150.14 0.0299 0.0233

Mars 85691-05-08 14:10 G 33019183.02 33019183.09 33019183.15 0.1605 0.1305

Saturn 85691-07-03 12:58 G 33019238.87 33019239.04 33019239.22 0.0299 0.0026

Saturn 85691-09-30 12:58 G 33019327.90 33019328.04 33019328.18 0.0299 0.0180

Mars 85693-04-12 16:20 G 33019888.06 33019888.18 33019888.29 0.1614 0.0185

Jupiter 85694-12-20 12:58 G 33020504.94 33020505.04 33020505.14 0.0511 0.0327

Jupiter 85695-03-19 18:58 G 33020594.20 33020594.29 33020594.39 0.0508 0.0353

Moon 85701-02-24 14:24 G 33022761.98 33022762.10 33022762.21 0.2701 0.1606

Earth 85701-02-24 14:53 G 33022762.00 33022762.12 33022762.23 0.2708 0.1575 *

Jupiter 85701-05-18 18:44 G 33022845.12 33022845.28 33022845.44 0.0518 0.0180

Mars 85702-09-04 03:36 G 33023318.53 33023318.65 33023318.77 0.1612 0.0194

Moon 85703-08-27 13:27 G 33023675.98 33023676.06 33023676.14 0.2620 0.1934

Earth 85703-08-27 13:56 G 33023676.00 33023676.08 33023676.16 0.2625 0.1950 *

Mars 85704-08-09 06:44 G 33024023.72 33024023.78 33024023.84 0.1624 0.1362

Mars 85705-06-19 18:00 G 33024338.16 33024338.25 33024338.34 0.1914 0.1544

Venus 85705-07-26 08:10 G 33024374.77 33024374.84 33024374.91 0.3627 0.2751

Saturn 85705-07-27 14:39 G 33024376.01 33024376.11 33024376.21 0.0262 0.0179

Saturn 85705-10-24 00:44 G 33024464.41 33024464.53 33024464.66 0.0262 0.0077

Saturn 85706-01-20 11:03 G 33024552.83 33024552.96 33024553.10 0.0262 0.0028

Saturn 85706-04-18 21:36 G 33024641.28 33024641.40 33024641.52 0.0262 0.0130

Saturn 85706-07-16 07:56 G 33024729.78 33024729.83 33024729.90 0.0262 0.0236

Jupiter 85706-10-09 17:17 G 33024815.19 33024815.22 33024815.25 0.0512 0.0494

Jupiter 85707-01-06 23:03 G 33024904.34 33024904.46 33024904.59 0.0509 0.0185

Earth 85710-08-20 10:34 G 33026225.86 33026225.94 33026226.02 0.2626 0.1810

Moon 85710-08-20 11:17 G 33026225.89 33026225.97 33026226.06 0.2626 0.1673 *

Venus 85711-02-08 23:32 G 33026398.38 33026398.48 33026398.58 0.3627 0.0510

Mars 85712-01-25 15:08 G 33026749.02 33026749.13 33026749.24 0.1609 0.0558

Uranus 85713-03-06 08:24 G 33027154.76 33027154.85 33027154.95 0.0134 0.0116

Jupiter 85713-03-06 15:36 G 33027154.98 33027155.15 33027155.33 0.0517 0.0074

Uranus 85713-06-02 14:53 G 33027242.99 33027243.12 33027243.26 0.0134 0.0090

Uranus 85713-08-29 21:22 G 33027331.24 33027331.39 33027331.56 0.0134 0.0065

Uranus 85713-11-26 03:51 G 33027419.49 33027419.66 33027419.84 0.0134 0.0040

Mars 85713-12-30 17:46 G 33027454.15 33027454.24 33027454.34 0.1621 0.0976

Uranus 85714-02-22 10:20 G 33027507.75 33027507.93 33027508.11 0.0134 0.0015

Uranus 85714-05-21 16:34 G 33027596.01 33027596.19 33027596.38 0.0134 0.0011

Uranus 85714-08-17 23:03 G 33027684.28 33027684.46 33027684.63 0.0134 0.0034

Mars 85714-11-09 11:46 G 33027767.83 33027767.99 33027768.15 0.1918 0.0362

Uranus 85714-11-14 05:03 G 33027772.56 33027772.71 33027772.88 0.0134 0.0059

Uranus 85715-02-10 11:17 G 33027860.84 33027860.97 33027861.12 0.0134 0.0083

Uranus 85715-05-09 17:32 G 33027949.13 33027949.23 33027949.34 0.0134 0.0107

Uranus 85715-08-05 23:32 G 33028037.46 33028037.48 33028037.53 0.0134 0.0132

Venus 85716-08-24 15:08 G 33028422.04 33028422.13 33028422.22 0.3627 0.1775

Jupiter 85718-10-26 03:36 G 33029214.51 33029214.65 33029214.78 0.0509 0.0026

Saturn 85720-08-23 11:03 G 33029881.93 33029881.96 33029882.00 0.0299 0.0292

Saturn	85720-11-20 11:32 G	33029970.81	33029970.98	33029971.16	0.0299	0.0084
Saturn	85721-02-17 11:32 G	33030059.83	33030059.98	33030060.15	0.0299	0.0122
Moon	85721-02-19 15:22 G	33030062.11	33030062.14	33030062.17	0.2703	0.2610
Mars	85721-06-17 02:39 G	33030179.51	33030179.61	33030179.70	0.1607	0.0917
Mars	85723-05-23 05:03 G	33030884.60	33030884.71	33030884.82	0.1618	0.0592
Earth	85723-08-23 05:17 G	33030976.60	33030976.72	33030976.83	0.2625	0.0491
Moon	85723-08-23 05:46 G	33030976.63	33030976.74	33030976.86	0.2621	0.0477 *
Mars	85724-03-31 05:17 G	33031197.58	33031197.72	33031197.87	0.1923	0.0864
Jupiter	85724-12-23 13:12 G	33031464.91	33031465.05	33031465.19	0.0516	0.0318
Venus	85726-03-07 06:58 G	33031903.64	33031903.79	33031903.94	0.3746	0.0124
Pluto	85727-11-20 16:48 G	33032527.13	33032527.20	33032527.29	0.0062	0.0055
Pluto	85728-02-16 17:32 G	33032615.13	33032615.23	33032615.37	0.0062	0.0045
Pluto	85728-05-14 18:58 G	33032703.15	33032703.29	33032703.44	0.0062	0.0034
Pluto	85728-08-10 19:41 G	33032791.17	33032791.32	33032791.49	0.0062	0.0024
Pluto	85728-11-06 20:53 G	33032879.21	33032879.37	33032879.54	0.0062	0.0013
Pluto	85729-02-02 21:51 G	33032967.24	33032967.41	33032967.59	0.0062	0.0003
Pluto	85729-05-01 22:48 G	33033055.29	33033055.45	33033055.63	0.0062	0.0008
Pluto	85729-07-28 23:46 G	33033143.33	33033143.49	33033143.66	0.0062	0.0018
Pluto	85729-10-25 00:29 G	33033231.39	33033231.52	33033231.69	0.0062	0.0030
Pluto	85730-01-21 01:41 G	33033319.45	33033319.57	33033319.71	0.0062	0.0040
Pluto	85730-04-19 02:24 G	33033407.52	33033407.60	33033407.72	0.0062	0.0051
Pluto	85730-07-16 03:36 G	33033495.62	33033495.65	33033495.70	0.0062	0.0061
Jupiter	85730-08-14 07:56 G	33033524.71	33033524.83	33033524.96	0.0510	0.0141
Mars	85730-11-07 14:10 G	33033610.02	33033610.09	33033610.16	0.1605	0.1268
Mars	85732-10-12 16:20 G	33034315.06	33034315.18	33034315.29	0.1615	0.0220
Earth	85734-02-22 17:46 G	33034813.10	33034813.24	33034813.38	0.2707	0.0317
Moon	85734-02-22 18:15 G	33034813.12	33034813.26	33034813.41	0.2701	0.0175 *
Saturn	85734-12-14 16:48 G	33035108.12	33035108.20	33035108.28	0.0262	0.0214
Saturn	85735-03-13 02:53 G	33035196.50	33035196.62	33035196.75	0.0262	0.0112
Saturn	85735-06-09 13:12 G	33035284.91	33035285.05	33035285.19	0.0262	0.0010

Saturn 85735-09-05 23:32 G 33035373.35 33035373.48 33035373.61 0.0262 0.0094

Saturn 85735-12-03 09:51 G 33035461.83 33035461.91 33035462.01 0.0262 0.0199

Moon 85736-08-25 00:00 G 33035727.39 33035727.50 33035727.62 0.2618 0.0934

Earth 85736-08-25 00:00 G 33035727.39 33035727.50 33035727.61 0.2625 0.0854 *

Jupiter 85737-01-09 18:44 G 33035865.18 33035865.28 33035865.38 0.0519 0.0422

Mars 85742-03-05 03:36 G 33037745.53 33037745.65 33037745.77 0.1612 0.0161

Jupiter 85742-06-02 12:15 G 33037834.91 33037835.01 33037835.12 0.0510 0.0306

Jupiter 85742-08-30 18:15 G 33037924.17 33037924.26 33037924.35 0.0508 0.0373

Mars 85744-02-08 06:44 G 33038450.72 33038450.78 33038450.84 0.1624 0.1402

Mars 85744-12-18 18:29 G 33038765.18 33038765.27 33038765.36 0.1913 0.1609

Moon 85747-02-25 20:10 G 33039564.24 33039564.34 33039564.45 0.2701 0.1825

Earth 85747-02-25 20:53 G 33039564.27 33039564.37 33039564.46 0.2708 0.2004 *

Jupiter 85748-10-28 16:48 G 33040175.04 33040175.20 33040175.37 0.0518 0.0189

Moon 85749-08-27 18:29 G 33040478.20 33040478.27 33040478.34 0.2620 0.2086

Earth 85749-08-27 18:58 G 33040478.23 33040478.29 33040478.35 0.2625 0.2229 *

Saturn 85750-04-09 08:39 G 33040702.71 33040702.86 33040703.02 0.0299 0.0154

Saturn 85750-07-07 09:08 G 33040791.70 33040791.88 33040792.05 0.0299 0.0053

Saturn 85750-10-04 08:39 G 33040880.78 33040880.86 33040880.96 0.0300 0.0257

Mars 85751-07-26 14:53 G 33041176.01 33041176.12 33041176.23 0.1609 0.0527

Mars 85753-06-30 17:46 G 33041881.15 33041881.24 33041881.33 0.1621 0.1009

Jupiter 85754-03-21 15:51 G 33042145.13 33042145.16 33042145.20 0.0511 0.0488

Mars 85754-05-10 12:29 G 33042194.86 33042195.02 33042195.18 0.1919 0.0438

Jupiter 85754-06-18 21:36 G 33042234.28 33042234.40 33042234.53 0.0509 0.0191

Uranus 85755-03-08 20:10 G 33042497.30 33042497.34 33042497.40 0.0144 0.0131

Uranus 85755-06-05 00:15 G 33042585.42 33042585.51 33042585.60 0.0144 0.0109

Uranus 85755-09-01 04:05 G 33042673.56 33042673.67 33042673.78 0.0144 0.0086

Uranus 85755-11-28 07:56 G 33042761.71 33042761.83 33042761.96 0.0144 0.0064

Uranus 85756-02-24 11:46 G 33042849.87 33042849.99 33042850.13 0.0144 0.0042

Uranus 85756-05-22 15:51 G 33042938.03 33042938.16 33042938.30 0.0144 0.0019

Uranus 85756-08-18 19:56 G 33043026.19 33043026.33 33043026.46 0.0144 0.0006

Earth 85756-08-20 15:36 G 33043028.05 33043028.15 33043028.24 0.2626 0.1551

Moon 85756-08-20 16:20 G 33043028.09 33043028.18 33043028.28 0.2626 0.1475 *

Uranus 85756-11-14 23:46 G 33043114.36 33043114.49 33043114.63 0.0144 0.0028

Uranus 85757-02-11 03:51 G 33043202.53 33043202.66 33043202.79 0.0144 0.0051

Uranus 85757-05-10 07:56 G 33043290.71 33043290.83 33043290.95 0.0144 0.0074

Uranus 85757-08-06 11:46 G 33043378.89 33043378.99 33043379.10 0.0144 0.0098

Uranus 85757-11-02 15:51 G 33043467.09 33043467.16 33043467.24 0.0144 0.0121

Jupiter 85760-08-16 14:53 G 33044484.94 33044485.12 33044485.29 0.0517 0.0049

Mars 85760-12-16 02:24 G 33044606.51 33044606.60 33044606.70 0.1607 0.0882

Venus 85762-03-02 05:32 G 33045047.64 33045047.73 33045047.82 0.3627 0.1915

Mars 85762-11-21 05:03 G 33045311.60 33045311.71 33045311.81 0.1618 0.0628

Mars 85763-09-30 06:15 G 33045624.61 33045624.76 33045624.91 0.1923 0.0773

Saturn 85764-05-02 19:56 G 33045840.28 33045840.33 33045840.39 0.0262 0.0239

Neptune 85764-06-24 16:34 G 33045893.16 33045893.19 33045893.23 0.0090 0.0088

Saturn 85764-07-30 06:15 G 33045928.64 33045928.76 33045928.87 0.0262 0.0138

Neptune 85764-09-20 19:27 G 33045981.24 33045981.31 33045981.42 0.0090 0.0078

Saturn 85764-10-26 16:20 G 33046017.05 33046017.18 33046017.32 0.0262 0.0035

Neptune 85764-12-17 23:03 G 33046069.34 33046069.46 33046069.58 0.0090 0.0067

Saturn 85765-01-23 02:39 G 33046105.48 33046105.61 33046105.74 0.0262 0.0068

Neptune 85765-03-16 01:56 G 33046157.46 33046157.58 33046157.74 0.0090 0.0057

Saturn 85765-04-21 13:12 G 33046193.95 33046194.05 33046194.15 0.0261 0.0172

Neptune 85765-06-12 05:32 G 33046245.57 33046245.73 33046245.89 0.0090 0.0046

Neptune 85765-09-08 08:39 G 33046333.70 33046333.86 33046334.03 0.0090 0.0036

Neptune 85765-12-05 11:46 G 33046421.82 33046421.99 33046422.17 0.0090 0.0026

Neptune 85766-03-03 14:53 G 33046509.95 33046510.12 33046510.30 0.0090 0.0015

Jupiter 85766-04-07 01:56 G 33046544.45 33046544.58 33046544.71 0.0510 0.0022

Neptune 85766-05-30 18:00 G 33046598.07 33046598.25 33046598.44 0.0090 0.0006

Neptune 85766-08-26 21:08 G 33046686.21 33046686.38 33046686.57 0.0090 0.0006

Neptune 85766-11-23 00:15 G 33046774.34 33046774.51 33046774.69 0.0090 0.0016

Neptune 85767-02-19 03:22 G 33046862.47 33046862.64 33046862.82 0.0090 0.0026

Earth 85767-02-20 20:24 G 33046864.27 33046864.35 33046864.43 0.2707 0.2271

Moon 85767-02-20 21:36 G 33046864.31 33046864.40 33046864.49 0.2702 0.2116 *

Neptune 85767-05-18 06:29 G 33046950.61 33046950.77 33046950.94 0.0090 0.0036

Neptune 85767-08-14 09:22 G 33047038.75 33047038.89 33047039.06 0.0090 0.0046

Venus 85767-09-15 20:53 G 33047071.27 33047071.37 33047071.48 0.3627 0.0358

Neptune 85767-11-10 12:29 G 33047126.89 33047127.02 33047127.17 0.0090 0.0056

Neptune 85768-02-06 15:36 G 33047215.04 33047215.15 33047215.28 0.0090 0.0066

Neptune 85768-05-04 18:29 G 33047303.19 33047303.27 33047303.38 0.0090 0.0076

Neptune 85768-07-31 21:36 G 33047391.36 33047391.40 33047391.46 0.0090 0.0086

Earth 85769-08-23 10:05 G 33047778.81 33047778.92 33047779.04 0.2625 0.0246

Moon 85769-08-23 10:34 G 33047778.82 33047778.94 33047779.06 0.2620 0.0139 *

Mars 85770-05-08 14:10 G 33048037.01 33048037.09 33048037.16 0.1605 0.1233

Mars 85772-04-12 16:20 G 33048742.06 33048742.18 33048742.29 0.1615 0.0257

Jupiter 85772-06-04 11:46 G 33048794.85 33048794.99 33048795.13 0.0516 0.0303

Venus 85773-03-31 12:29 G 33049094.95 33049095.02 33049095.09 0.3627 0.2631

Jupiter 85778-01-24 06:29 G 33050854.64 33050854.77 33050854.89 0.0510 0.0141

Saturn 85779-08-27 06:44 G 33051434.66 33051434.78 33051434.90 0.0299 0.0218

Mars 85779-09-29 01:41 G 33051467.56 33051467.57 33051467.59 0.1602 0.1579

Saturn 85779-11-24 07:12 G 33051523.62 33051523.80 33051523.98 0.0299 0.0010

Saturn 85780-02-21 06:58 G 33051612.66 33051612.79 33051612.93 0.0300 0.0195

Earth 85780-02-23 23:46 G 33051615.35 33051615.49 33051615.64 0.2708 0.0140

Moon 85780-02-24 00:00 G 33051615.36 33051615.50 33051615.65 0.2701 0.0113 *

Mars 85781-09-03 03:36 G 33052172.53 33052172.65 33052172.77 0.1612 0.0126

Moon 85782-08-26 05:03 G 33052529.60 33052529.71 33052529.82 0.2619 0.1060

Earth 85782-08-26 05:03 G 33052529.60 33052529.71 33052529.81 0.2625 0.1127 *

Venus 85782-10-12 08:39 G 33052576.75 33052576.86 33052576.97 0.3746 0.2627

Mars 85783-08-09 06:44 G 33052877.73 33052877.78 33052877.83 0.1624 0.1439

Mars 85784-06-18 19:27 G 33053192.23 33053192.31 33053192.38 0.1913 0.1695

Jupiter 85784-06-21 17:17 G 33053195.13 33053195.22 33053195.31 0.0518 0.0433

Earth 85789-08-19 01:56 G 33055079.56 33055079.58 33055079.59 0.2626 0.2593

Moon 85789-08-19 02:39 G 33055079.57 33055079.61 33055079.65 0.2629 0.2462 *

Jupiter 85789-11-12 11:03 G 33055164.85 33055164.96 33055165.06 0.0511 0.0299

Jupiter 85790-02-09 16:48 G 33055254.12 33055254.20 33055254.29 0.0508 0.0381

Mars 85791-01-24 15:08 G 33055603.01 33055603.13 33055603.24 0.1609 0.0489

Mars 85792-12-29 17:46 G 33056308.15 33056308.24 33056308.33 0.1621 0.1047

Moon 85793-02-26 02:10 G 33056366.53 33056366.59 33056366.65 0.2701 0.2435

Earth 85793-02-26 02:53 G 33056366.56 33056366.62 33056366.68 0.2708 0.2425 *

Mars 85793-11-08 13:27 G 33056621.90 33056622.06 33056622.22 0.1918 0.0522

Saturn 85793-12-17 08:10 G 33056660.74 33056660.84 33056660.94 0.0262 0.0174

Saturn 85794-03-15 18:15 G 33056749.13 33056749.26 33056749.39 0.0262 0.0072

Saturn 85794-06-12 04:34 G 33056837.56 33056837.69 33056837.83 0.0262 0.0031

Saturn 85794-09-08 14:53 G 33056926.01 33056926.12 33056926.24 0.0262 0.0134

Saturn 85794-12-06 01:27 G 33057014.51 33057014.56 33057014.62 0.0262 0.0239

Moon 85795-08-28 23:17 G 33057280.44 33057280.47 33057280.51 0.2620 0.2488

Earth 85795-08-29 00:00 G 33057280.47 33057280.50 33057280.53 0.2625 0.2509 *

Jupiter 85796-04-09 15:08 G 33057504.97 33057505.13 33057505.29 0.0518 0.0196

Uranus 85797-03-26 15:08 G 33057856.03 33057856.13 33057856.24 0.0134 0.0110

Uranus 85797-06-22 21:36 G 33057944.27 33057944.40 33057944.55 0.0134 0.0084

Uranus 85797-09-19 04:20 G 33058032.52 33058032.68 33058032.84 0.0134 0.0059

Uranus 85797-12-16 10:48 G 33058120.77 33058120.95 33058121.13 0.0134 0.0034

Uranus 85798-03-14 17:03 G 33058209.03 33058209.21 33058209.40 0.0134 0.0009

Uranus 85798-06-10 23:32 G 33058297.30 33058297.48 33058297.66 0.0134 0.0016

Uranus 85798-09-07 05:46 G 33058385.57 33058385.74 33058385.92 0.0134 0.0041

Uranus 85798-12-04 12:00 G 33058473.85 33058474.00 33058474.16 0.0134 0.0065

Uranus 85799-03-02 18:15 G 33058562.13 33058562.26 33058562.40 0.0134 0.0090

Uranus 85799-05-30 00:29 G 33058650.43 33058650.52 33058650.62 0.0134 0.0114

Mars 85800-06-17 02:24 G 33059033.50 33059033.60 33059033.70 0.1607 0.0846

Jupiter 85801-09-01 15:22 G 33059475.09 33059475.14 33059475.20 0.0511 0.0463

Jupiter 85801-11-29 21:08 G 33059564.26 33059564.38 33059564.50 0.0509 0.0216

Mars 85802-05-23 05:03 G 33059738.60 33059738.71 33059738.82 0.1618 0.0664

Earth 85802-08-22 20:24 G 33059830.25 33059830.35 33059830.45 0.2626 0.1293

Moon 85802-08-22 21:08 G 33059830.28 33059830.38 33059830.49 0.2625 0.1197 *

Mars 85803-04-01 06:44 G 33060051.63 33060051.78 33060051.94 0.1923 0.0704

Jupiter 85808-01-28 13:27 G 33061814.88 33061815.06 33061815.24 0.0517 0.0036

Saturn 85809-01-14 02:24 G 33062166.60 33062166.60 33062166.61 0.0299 0.0299

Saturn 85809-04-13 03:08 G 33062255.46 33062255.63 33062255.80 0.0299 0.0089

Saturn 85809-07-11 03:22 G 33062344.48 33062344.64 33062344.80 0.0300 0.0117

Mars 85809-11-07 13:56 G 33062464.01 33062464.08 33062464.16 0.1605 0.1199

Mars 85811-10-13 16:05 G 33063169.06 33063169.17 33063169.29 0.1614 0.0285

Earth 85813-02-22 02:39 G 33063666.50 33063666.61 33063666.72 0.2707 0.1811

Moon 85813-02-22 03:51 G 33063666.54 33063666.66 33063666.77 0.2702 0.1664 *

Venus 85813-03-24 11:32 G 33063696.94 33063696.98 33063697.02 0.3626 0.3308

Jupiter 85813-09-18 00:44 G 33063874.40 33063874.53 33063874.66 0.0509 0.0032

Earth 85815-08-25 15:08 G 33064581.01 33064581.13 33064581.25 0.2625 0.0039

Moon 85815-08-25 15:36 G 33064581.03 33064581.15 33064581.27 0.2619 0.0075 *

Venus 85818-10-08 02:53 G 33065720.52 33065720.62 33065720.72 0.3626 0.1078

Mars 85819-03-31 01:41 G 33065894.54 33065894.57 33065894.60 0.1602 0.1544

Pluto 85819-09-29 18:29 G 33066077.22 33066077.27 33066077.33 0.0082 0.0076

Jupiter 85819-11-16 11:17 G 33066124.83 33066124.97 33066125.13 0.0516 0.0272

Pluto 85819-12-26 19:56 G 33066165.23 33066165.33 33066165.44 0.0082 0.0055

Pluto 85820-03-23 21:22 G 33066253.26 33066253.39 33066253.53 0.0082 0.0035

Pluto 85820-06-19 22:48 G 33066341.31 33066341.45 33066341.60 0.0082 0.0014

Pluto 85820-09-16 00:15 G 33066429.37 33066429.51 33066429.66 0.0082 0.0006

Pluto 85820-12-13 01:41 G 33066517.43 33066517.57 33066517.71 0.0081 0.0026

Mars 85821-03-05 03:36 G 33066599.53 33066599.65 33066599.76 0.1612 0.0106

Pluto 85821-03-11 03:08 G 33066605.51 33066605.63 33066605.75 0.0081 0.0047

Pluto 85821-06-07 04:34 G 33066693.61 33066693.69 33066693.77 0.0081 0.0067

Mars 85823-02-08 06:44 G 33067304.73 33067304.78 33067304.83 0.1624 0.1470

Saturn 85823-05-07 11:03 G 33067392.88 33067392.96 33067393.05 0.0262 0.0201

Saturn 85823-08-03 21:22 G 33067481.26 33067481.39 33067481.51 0.0262 0.0100

Saturn 85823-10-31 07:27 G 33067569.68 33067569.81 33067569.95 0.0262 0.0006

Mars 85823-12-19 20:10 G 33067619.29 33067619.34 33067619.40 0.1914 0.1777

Saturn 85824-01-27 17:46 G 33067658.12 33067658.24 33067658.37 0.0261 0.0106

Venus 85824-04-22 18:15 G 33067744.17 33067744.26 33067744.36 0.3627 0.1189

Saturn 85824-04-25 04:20 G 33067746.60 33067746.68 33067746.76 0.0261 0.0210

Jupiter 85825-07-07 05:03 G 33068184.58 33068184.71 33068184.83 0.0510 0.0136

Moon 85826-02-25 06:00 G 33068417.60 33068417.75 33068417.89 0.2701 0.0588

Earth 85826-02-25 06:00 G 33068417.61 33068417.75 33068417.89 0.2708 0.0568 *

Moon 85828-08-27 09:51 G 33069331.81 33069331.91 33069332.01 0.2619 0.1412

Earth 85828-08-27 10:05 G 33069331.82 33069331.92 33069332.02 0.2625 0.1398 *

Venus 85829-11-06 09:51 G 33069767.89 33069767.91 33069767.94 0.3627 0.3491

Mars 85830-07-26 14:53 G 33070030.01 33070030.12 33070030.24 0.1609 0.0453

Jupiter 85831-12-03 16:20 G 33070525.10 33070525.18 33070525.26 0.0518 0.0456

Mars 85832-06-30 17:46 G 33070735.15 33070735.24 33070735.33 0.1621 0.1085

Mars 85833-05-10 14:10 G 33071048.94 33071049.09 33071049.25 0.1918 0.0611

Venus 85833-11-03 02:10 G 33071225.48 33071225.59 33071225.69 0.3746 0.2620

Earth 85835-08-21 06:44 G 33071881.73 33071881.78 33071881.84 0.2626 0.2337

Moon 85835-08-21 07:41 G 33071881.76 33071881.82 33071881.87 0.2629 0.2300 *

Jupiter 85837-04-25 09:36 G 33072494.79 33072494.90 33072495.00 0.0511 0.0297

Jupiter 85837-07-23 15:22 G 33072584.06 33072584.14 33072584.23 0.0508 0.0385

Saturn 85838-08-31 00:58 G 33072987.39 33072987.54 33072987.69 0.0299 0.0155

Saturn 85838-11-28 01:12 G 33073076.38 33073076.55 33073076.73 0.0300 0.0053

Saturn 85839-02-25 00:58 G 33073165.46 33073165.54 33073165.63 0.0300 0.0257

Moon 85839-02-28 08:10 G 33073168.82 33073168.84 33073168.85 0.2702 0.2675

Uranus 85839-03-30 03:36 G 33073198.59 33073198.65 33073198.72 0.0144 0.0124

Uranus 85839-06-26 07:41 G 33073286.73 33073286.82 33073286.91 0.0144 0.0102

Uranus 85839-09-22 11:32 G 33073374.87 33073374.98 33073375.09 0.0144 0.0080

Mars 85839-12-17 02:24 G 33073460.50 33073460.60 33073460.70 0.1607 0.0809

Uranus 85839-12-19 15:22 G 33073463.02 33073463.14 33073463.27 0.0144 0.0057

Uranus 85840-03-16 19:12 G 33073551.17 33073551.30 33073551.44 0.0144 0.0035

Uranus 85840-06-12 23:17 G 33073639.33 33073639.47 33073639.61 0.0144 0.0012

Uranus 85840-09-09 03:08 G 33073727.50 33073727.63 33073727.77 0.0144 0.0012

Uranus 85840-12-06 07:12 G 33073815.67 33073815.80 33073815.93 0.0144 0.0034

Uranus 85841-03-04 11:03 G 33073903.84 33073903.96 33073904.09 0.0144 0.0058

Uranus 85841-05-31 15:08 G 33073992.02 33073992.13 33073992.25 0.0144 0.0081

Uranus 85841-08-27 19:12 G 33074080.21 33074080.30 33074080.40 0.0144 0.0104

Mars 85841-11-21 05:03 G 33074165.60 33074165.71 33074165.81 0.1618 0.0700

Uranus 85841-11-23 23:17 G 33074168.41 33074168.47 33074168.54 0.0144 0.0128

Mars 85842-09-30 07:41 G 33074478.67 33074478.82 33074478.98 0.1923 0.0614

Jupiter 85843-09-21 14:10 G 33074834.93 33074835.09 33074835.25 0.0517 0.0215

Neptune 85845-12-26 19:56 G 33075662.31 33075662.33 33075662.37 0.0088 0.0086

Neptune 85846-03-24 21:36 G 33075750.34 33075750.40 33075750.46 0.0088 0.0078

Neptune 85846-06-20 23:03 G 33075838.38 33075838.46 33075838.54 0.0088 0.0071

Neptune 85846-09-17 00:15 G 33075926.43 33075926.51 33075926.62 0.0088 0.0064

Neptune 85846-12-14 01:41 G 33076014.48 33076014.57 33076014.69 0.0088 0.0057

Neptune 85847-03-12 03:08 G 33076102.53 33076102.63 33076102.76 0.0088 0.0050

Neptune 85847-06-08 04:48 G 33076190.58 33076190.70 33076190.82 0.0088 0.0042

Neptune 85847-09-04 06:15 G 33076278.64 33076278.76 33076278.89 0.0088 0.0035

Neptune 85847-12-01 07:41 G 33076366.69 33076366.82 33076366.96 0.0088 0.0027

Neptune 85848-02-27 09:08 G 33076454.75 33076454.88 33076455.02 0.0088 0.0020

Neptune 85848-05-25 10:34 G 33076542.81 33076542.94 33076543.08 0.0088 0.0013

Neptune 85848-08-21 12:15 G 33076630.87 33076631.01 33076631.15 0.0088 0.0005

Earth 85848-08-23 01:27 G 33076632.45 33076632.56 33076632.66 0.2626 0.1032

Moon 85848-08-23 02:10 G 33076632.48 33076632.59 33076632.70 0.2623 0.0920 *

Neptune 85848-11-17 13:41 G 33076718.93 33076719.07 33076719.21 0.0088 0.0002

Jupiter 85849-02-11 14:10 G 33076805.04 33076805.09 33076805.15 0.0512 0.0454

Neptune 85849-02-13 15:08 G 33076806.99 33076807.13 33076807.27 0.0088 0.0010

Mars 85849-05-08 13:56 G 33076891.00 33076891.08 33076891.16 0.1604 0.1163

Jupiter 85849-05-11 19:56 G 33076894.21 33076894.33 33076894.45 0.0509 0.0225

Neptune 85849-05-12 16:34 G 33076895.06 33076895.19 33076895.33 0.0088 0.0017

Neptune 85849-08-08 18:00 G 33076983.12 33076983.25 33076983.39 0.0088 0.0025

Neptune 85849-11-04 19:41 G 33077071.19 33077071.32 33077071.45 0.0088 0.0032

Neptune 85850-01-31 20:53 G 33077159.25 33077159.37 33077159.50 0.0088 0.0040

Neptune 85850-04-29 22:34 G 33077247.32 33077247.44 33077247.56 0.0088 0.0047

Neptune 85850-07-27 00:00 G 33077335.40 33077335.50 33077335.62 0.0088 0.0055

Neptune 85850-10-23 01:41 G 33077423.47 33077423.57 33077423.67 0.0088 0.0062

Neptune 85851-01-19 02:53 G 33077511.55 33077511.62 33077511.72 0.0088 0.0070

Mars 85851-04-13 16:05 G 33077596.06 33077596.17 33077596.29 0.1614 0.0323

Neptune 85851-04-17 04:48 G 33077599.63 33077599.70 33077599.76 0.0088 0.0077

Neptune 85851-07-14 06:00 G 33077687.73 33077687.75 33077687.79 0.0088 0.0085

Mars 85852-02-20 00:29 G 33077908.49 33077908.52 33077908.55 0.1927 0.1879

Saturn 85852-09-23 12:58 G 33078124.99 33078125.04 33078125.10 0.0262 0.0238

Saturn 85852-12-20 23:03 G 33078213.35 33078213.46 33078213.58 0.0262 0.0138

Saturn 85853-03-19 09:22 G 33078301.75 33078301.89 33078302.02 0.0262 0.0035

Saturn 85853-06-15 19:41 G 33078390.19 33078390.32 33078390.45 0.0261 0.0068

Saturn 85853-09-12 06:00 G 33078478.65 33078478.75 33078478.85 0.0261 0.0171

Jupiter 85855-07-10 12:00 G 33079144.82 33079145.00 33079145.17 0.0517 0.0026

Mars 85858-09-29 01:41 G 33080321.53 33080321.57 33080321.60 0.1602 0.1511

Earth 85859-02-23 08:53 G 33080468.74 33080468.87 33080468.99 0.2707 0.1363

Moon 85859-02-23 09:36 G 33080468.78 33080468.90 33080469.03 0.2702 0.1285 *

Mars 85860-09-03 03:36 G 33081026.53 33081026.65 33081026.76 0.1612 0.0076

Jupiter 85861-02-28 00:29 G 33081204.39 33081204.52 33081204.65 0.0509 0.0062

Earth 85861-08-25 20:10 G 33081383.22 33081383.34 33081383.45 0.2625 0.0310

Moon 85861-08-25 20:24 G 33081383.24 33081383.35 33081383.47 0.2619 0.0367 *

Mars 85862-08-09 06:44 G 33081731.74 33081731.78 33081731.82 0.1624 0.1510

Mars 85863-06-19 20:53 G 33082046.33 33082046.37 33082046.41 0.1913 0.1846

Jupiter 85867-04-28 10:05 G 33083454.77 33083454.92 33083455.08 0.0516 0.0255

Saturn 85868-01-17 19:56 G 33083719.23 33083719.33 33083719.44 0.0299 0.0241

Saturn 85868-04-15 20:24 G 33083808.18 33083808.35 33083808.53 0.0299 0.0033

Saturn 85868-07-13 20:24 G 33083897.22 33083897.35 33083897.50 0.0300 0.0174

Venus 85869-10-29 08:53 G 33084369.80 33084369.87 33084369.95 0.3626 0.2482

Mars 85870-01-24 14:53 G 33084457.01 33084457.12 33084457.23 0.1609 0.0417

Mars 85871-12-30 17:46 G 33085162.15 33085162.24 33085162.32 0.1621 0.1117

Moon 85872-02-26 12:00 G 33085219.86 33085220.00 33085220.13 0.2700 0.0981

Earth 85872-02-26 12:00 G 33085219.87 33085220.00 33085220.14 0.2708 0.1012 *

Mars 85872-11-08 14:53 G 33085475.97 33085476.12 33085476.27 0.1919 0.0677

Jupiter 85872-12-17 03:51 G 33085514.54 33085514.66 33085514.79 0.0510 0.0123

Moon 85874-08-28 14:39 G 33086134.02 33086134.11 33086134.20 0.2619 0.1582

Earth 85874-08-28 14:53 G 33086134.04 33086134.12 33086134.21 0.2625 0.1673 *

Venus 85875-05-15 00:15 G 33086393.41 33086393.51 33086393.61 0.3626 0.0254

Jupiter 85879-02-14 08:10 G 33087764.79 33087764.84 33087764.90 0.0515 0.0489

Jupiter 85879-05-15 16:05 G 33087855.13 33087855.17 33087855.23 0.0518 0.0492

Mars 85879-06-17 02:24 G 33087887.50 33087887.60 33087887.70 0.1607 0.0773

Venus 85880-11-27 15:51 G 33088417.07 33088417.16 33088417.24 0.3627 0.2034

Uranus 85881-01-18 15:08 G 33088469.09 33088469.13 33088469.18 0.0135 0.0130

Uranus 85881-04-16 21:36 G 33088557.30 33088557.40 33088557.53 0.0135 0.0104

Mars 85881-05-22 04:48 G 33088592.60 33088592.70 33088592.81 0.1618 0.0735

Uranus 85881-07-14 04:20 G 33088645.54 33088645.68 33088645.83 0.0135 0.0079

Earth 85881-08-21 11:46 G 33088683.92 33088683.99 33088684.06 0.2626 0.2082

Moon 85881-08-21 12:29 G 33088683.94 33088684.02 33088684.10 0.2628 0.1930 *

Uranus 85881-10-10 10:48 G 33088733.79 33088733.95 33088734.12 0.0135 0.0054

Uranus 85882-01-06 17:17 G 33088822.05 33088822.22 33088822.40 0.0135 0.0028

Mars 85882-03-31 08:53 G 33088905.71 33088905.87 33088906.03 0.1923 0.0518

Uranus 85882-04-04 23:46 G 33088910.31 33088910.49 33088910.67 0.0135 0.0003

Saturn 85882-05-10 01:56 G 33088945.48 33088945.58 33088945.68 0.0262 0.0167

Uranus 85882-07-02 06:00 G 33088998.58 33088998.75 33088998.93 0.0135 0.0022

Saturn 85882-08-06 12:00 G 33089033.87 33089034.00 33089034.13 0.0262 0.0065

Uranus 85882-09-28 12:15 G 33089086.85 33089087.01 33089087.19 0.0135 0.0047

Saturn 85882-11-02 22:20 G 33089122.29 33089122.43 33089122.56 0.0261 0.0038

Uranus 85882-12-25 18:44 G 33089175.13 33089175.28 33089175.43 0.0134 0.0071

Saturn 85883-01-30 08:39 G 33089210.75 33089210.86 33089210.98 0.0261 0.0141

Uranus 85883-03-24 00:58 G 33089263.41 33089263.54 33089263.67 0.0134 0.0095

Saturn 85883-04-28 19:12 G 33089299.25 33089299.30 33089299.34 0.0261 0.0246

Uranus 85883-06-20 07:12 G 33089351.72 33089351.80 33089351.88 0.0134 0.0119

Jupiter 85884-10-05 08:10 G 33089824.74 33089824.84 33089824.95 0.0511 0.0290

Jupiter 85885-01-02 14:10 G 33089914.01 33089914.09 33089914.17 0.0508 0.0392

Mars 85888-11-06 13:56 G 33091318.00 33091318.08 33091318.16 0.1604 0.1127

Venus 85890-06-10 03:51 G 33091898.51 33091898.66 33091898.82 0.3746 0.0089

Mars 85890-10-12 16:05 G 33092023.06 33092023.17 33092023.29 0.1615 0.0360

Jupiter 85891-03-03 13:27 G 33092164.91 33092165.06 33092165.22 0.0517 0.0244

Mars 85891-08-21 01:12 G 33092335.50 33092335.55 33092335.61 0.1927 0.1793

Earth 85894-08-24 06:15 G 33093434.65 33093434.76 33093434.87 0.2626 0.0770

Moon 85894-08-24 06:58 G 33093434.68 33093434.79 33093434.90 0.2621 0.0732 *

Jupiter 85896-07-24 12:44 G 33094134.97 33094135.03 33094135.09 0.0512 0.0450

Jupiter 85896-10-21 18:29 G 33094224.16 33094224.27 33094224.39 0.0509 0.0231

Saturn 85897-09-02 18:00 G 33094540.08 33094540.25 33094540.42 0.0300 0.0100

Saturn 85897-11-30 18:15 G 33094629.09 33094629.26 33094629.43 0.0300 0.0107

Mars 85898-03-30 01:41 G 33094748.53 33094748.57 33094748.61 0.1602 0.1473

Mars 85900-03-05 03:22 G 33095453.53 33095453.64 33095453.76 0.1612 0.0048

Mars 85902-02-08 06:44 G 33096158.75 33096158.78 33096158.81 0.1624 0.1545

Jupiter 85902-12-21 11:17 G 33096474.79 33096474.97 33096475.14 0.0517 0.0007

Earth 85905-02-24 14:53 G 33097270.99 33097271.12 33097271.26 0.2707 0.0914

Moon 85905-02-24 15:36 G 33097271.01 33097271.15 33097271.29 0.2701 0.0774 *

Earth 85907-08-28 00:58 G 33098185.43 33098185.54 33098185.66 0.2625 0.0583

Moon 85907-08-28 01:12 G 33098185.44 33098185.55 33098185.67 0.2619 0.0612 *

Jupiter 85908-08-10 23:17 G 33098534.34 33098534.47 33098534.60 0.0510 0.0071

Mars 85909-07-26 14:53 G 33098884.01 33098884.12 33098884.24 0.1609 0.0380

Mars 85911-07-01 17:46 G 33099589.16 33099589.24 33099589.32 0.1621 0.1155

Saturn 85911-09-28 03:51 G 33099677.57 33099677.66 33099677.74 0.0262 0.0204

Saturn 85911-12-25 13:41 G 33099765.95 33099766.07 33099766.20 0.0262 0.0104

Saturn 85912-03-23 00:00 G 33099854.37 33099854.50 33099854.64 0.0261 0.0004

Mars 85912-05-10 15:51 G 33099903.01 33099903.16 33099903.31 0.1918 0.0768

Saturn 85912-06-19 10:20 G 33099942.81 33099942.93 33099943.06 0.0261 0.0102

Saturn 85912-09-15 20:39 G 33100031.28 33100031.36 33100031.45 0.0261 0.0206

Jupiter 85914-10-09 08:53 G 33100784.71 33100784.87 33100785.03 0.0516 0.0239

Moon 85918-02-27 18:00 G 33102022.12 33102022.25 33102022.37 0.2700 0.1397

Earth 85918-02-27 18:15 G 33102022.14 33102022.26 33102022.38 0.2708 0.1447 *

Mars 85918-12-17 02:24 G 33102314.49 33102314.60 33102314.70 0.1606 0.0742

Jupiter 85920-05-30 03:51 G 33102844.53 33102844.66 33102844.79 0.0510 0.0092

Moon 85920-08-29 19:41 G 33102936.24 33102936.32 33102936.40 0.2619 0.1906

Earth 85920-08-29 19:56 G 33102936.26 33102936.33 33102936.41 0.2625 0.1947 *

Mars 85920-11-21 05:03 G 33103019.60 33103019.71 33103019.81 0.1617 0.0772

Mars 85921-09-30 09:08 G 33103332.72 33103332.88 33103333.04 0.1923 0.0456

Uranus 85923-01-22 07:27 G 33103811.79 33103811.81 33103811.85 0.0143 0.0139

Uranus 85923-04-20 11:17 G 33103899.90 33103899.97 33103900.05 0.0144 0.0117

Uranus 85923-07-17 15:08 G 33103988.03 33103988.13 33103988.24 0.0144 0.0094

Uranus 85923-10-13 19:12 G 33104076.18 33104076.30 33104076.41 0.0144 0.0072

Uranus 85924-01-09 23:03 G 33104164.33 33104164.46 33104164.59 0.0144 0.0049

Uranus 85924-04-07 02:53 G 33104252.49 33104252.62 33104252.76 0.0144 0.0027

Uranus 85924-07-04 06:44 G 33104340.65 33104340.78 33104340.92 0.0144 0.0006

Uranus 85924-09-30 10:48 G 33104428.81 33104428.95 33104429.09 0.0144 0.0019

Uranus 85924-12-27 14:39 G 33104516.98 33104517.11 33104517.25 0.0144 0.0042

Uranus 85925-03-25 18:44 G 33104605.16 33104605.28 33104605.41 0.0144 0.0065

Uranus 85925-06-21 22:34 G 33104693.34 33104693.44 33104693.56 0.0144 0.0089

Uranus 85925-09-18 02:39 G 33104781.53 33104781.61 33104781.70 0.0144 0.0112

Uranus 85925-12-15 06:44 G 33104869.74 33104869.78 33104869.83 0.0144 0.0135

Venus 85926-06-06 06:15 G 33105042.67 33105042.76 33105042.85 0.3626 0.1660

Jupiter 85926-07-28 07:12 G 33105094.73 33105094.80 33105094.87 0.0516 0.0469

Jupiter 85926-10-26 15:22 G 33105185.12 33105185.14 33105185.16 0.0518 0.0513

Saturn 85927-01-21 12:29 G 33105271.89 33105272.02 33105272.16 0.0299 0.0191

Saturn 85927-04-20 13:12 G 33105360.87 33105361.05 33105361.22 0.0300 0.0019

Saturn 85927-07-18 12:58 G 33105449.93 33105450.04 33105450.16 0.0300 0.0223

Earth 85927-08-23 16:48 G 33105486.11 33105486.20 33105486.28 0.2626 0.1820

Moon 85927-08-23 17:32 G 33105486.14 33105486.23 33105486.31 0.2627 0.1792 *

Mars 85928-05-08 13:56 G 33105745.00 33105745.08 33105745.17 0.1604 0.1092

Neptune 85929-03-23 15:22 G 33106064.08 33106064.14 33106064.23 0.0090 0.0082

Neptune 85929-06-19 18:58 G 33106152.18 33106152.29 33106152.40 0.0090 0.0071

Neptune 85929-09-15 21:51 G 33106240.29 33106240.41 33106240.56 0.0090 0.0061

Neptune 85929-12-13 01:27 G 33106328.41 33106328.56 33106328.71 0.0090 0.0050

Neptune 85930-03-11 04:34 G 33106416.53 33106416.69 33106416.86 0.0090 0.0040

Mars 85930-04-13 16:05 G 33106450.05 33106450.17 33106450.28 0.1614 0.0389

Neptune 85930-06-07 07:41 G 33106504.65 33106504.82 33106505.00 0.0090 0.0029

Neptune 85930-09-03 11:03 G 33106592.78 33106592.96 33106593.14 0.0090 0.0019

Neptune 85930-11-30 14:10 G 33106680.91 33106681.09 33106681.27 0.0090 0.0009

Mars 85931-02-20 02:10 G 33106762.52 33106762.59 33106762.67 0.1927 0.1705

Neptune 85931-02-26 17:17 G 33106769.04 33106769.22 33106769.40 0.0090 0.0002

Neptune 85931-05-25 20:24 G 33106857.17 33106857.35 33106857.53 0.0090 0.0012

Neptune 85931-08-21 23:32 G 33106945.31 33106945.48 33106945.66 0.0090 0.0022

Neptune 85931-11-18 02:24 G 33107033.44 33107033.60 33107033.78 0.0090 0.0033

Venus 85931-12-20 21:36 G 33107066.30 33107066.40 33107066.50 0.3626 0.0597

Neptune 85932-02-14 05:32 G 33107121.58 33107121.73 33107121.90 0.0090 0.0043

Jupiter 85932-03-18 07:12 G 33107154.70 33107154.80 33107154.92 0.0511 0.0275

Neptune 85932-05-12 08:24 G 33107209.72 33107209.85 33107210.01 0.0090 0.0053

Jupiter 85932-06-15 13:12 G 33107243.97 33107244.05 33107244.13 0.0508 0.0407

Neptune 85932-08-08 11:32 G 33107297.87 33107297.98 33107298.12 0.0090 0.0063

Neptune 85932-11-04 14:39 G 33107386.02 33107386.11 33107386.23 0.0090 0.0073

Neptune 85933-01-31 17:32 G 33107474.18 33107474.23 33107474.32 0.0090 0.0083

Venus 85937-07-05 13:12 G 33109089.99 33109090.05 33109090.11 0.3626 0.2882

Mars 85937-09-29 01:41 G 33109175.52 33109175.57 33109175.62 0.1602 0.1439

Moon 85938-02-22 18:44 G 33109322.25 33109322.28 33109322.31 0.2704 0.2625

Jupiter 85938-08-14 13:41 G 33109494.92 33109495.07 33109495.21 0.0517 0.0283

Mars 85939-09-04 03:22 G 33109880.53 33109880.64 33109880.76 0.1612 0.0057

Earth 85940-08-25 11:17 G 33110236.86 33110236.97 33110237.08 0.2626 0.0507

Moon 85940-08-25 12:00 G 33110236.88 33110237.00 33110237.11 0.2621 0.0377 *

Saturn 85941-02-14 06:15 G 33110409.71 33110409.76 33110409.82 0.0262 0.0235

Saturn 85941-05-13 16:34 G 33110498.07 33110498.19 33110498.30 0.0262 0.0134

Mars 85941-08-09 06:44 G 33110585.75 33110585.78 33110585.80 0.1624 0.1578

Saturn 85941-08-10 02:39 G 33110586.48 33110586.61 33110586.75 0.0262 0.0032

Saturn 85941-11-06 12:58 G 33110674.91 33110675.04 33110675.17 0.0261 0.0071

Saturn 85942-02-02 23:17 G 33110763.37 33110763.47 33110763.57 0.0261 0.0175

Jupiter 85944-01-05 11:46 G 33111464.92 33111464.99 33111465.05 0.0512 0.0441

Jupiter 85944-04-03 17:32 G 33111554.11 33111554.23 33111554.34 0.0509 0.0239

Venus 85947-01-16 05:46 G 33112571.63 33112571.74 33112571.85 0.3746 0.2546

Mars 85949-01-24 14:53 G 33113311.00 33113311.12 33113311.23 0.1609 0.0344

Jupiter 85950-06-02 10:48 G 33113804.78 33113804.95 33113805.13 0.0517 0.0034

Mars 85950-12-30 17:46 G 33114016.16 33114016.24 33114016.32 0.1621 0.1191

Earth 85951-02-25 21:08 G 33114073.23 33114073.38 33114073.52 0.2707 0.0470

Moon 85951-02-25 21:22 G 33114073.25 33114073.39 33114073.54 0.2700 0.0512 *

Mars 85951-11-09 16:34 G 33114330.04 33114330.19 33114330.33 0.1918 0.0845

Moon 85953-08-28 06:00 G 33114987.64 33114987.75 33114987.87 0.2619 0.0813

Earth 85953-08-28 06:00 G 33114987.64 33114987.75 33114987.86 0.2625 0.0844 *

Jupiter 85956-01-21 21:51 G 33115864.28 33115864.41 33115864.54 0.0510 0.0079

Saturn 85956-06-09 10:05 G 33116003.83 33116003.92 33116004.01 0.0300 0.0260

Saturn 85956-09-06 10:34 G 33116092.77 33116092.94 33116093.12 0.0300 0.0050

Saturn 85956-12-04 10:48 G 33116181.80 33116181.95 33116182.10 0.0300 0.0157

Mars 85958-06-17 02:24 G 33116741.49 33116741.60 33116741.70 0.1607 0.0703

Mars 85960-05-22 04:48 G 33117446.60 33117446.70 33117446.81 0.1617 0.0807

Mars 85961-03-31 10:05 G 33117759.76 33117759.92 33117760.09 0.1923 0.0365

Jupiter 85962-03-21 08:24 G 33118114.69 33118114.85 33118115.01 0.0516 0.0210

Moon 85964-02-28 23:46 G 33118824.39 33118824.49 33118824.59 0.2701 0.1862

Earth 85964-02-29 00:15 G 33118824.41 33118824.51 33118824.61 0.2708 0.1876 *

Uranus 85965-02-08 21:51 G 33119170.35 33119170.41 33119170.49 0.0135 0.0124

Uranus 85965-05-08 04:34 G 33119258.57 33119258.69 33119258.82 0.0135 0.0098

Uranus 85965-08-04 11:03 G 33119346.81 33119346.96 33119347.12 0.0135 0.0073

Uranus 85965-10-31 17:32 G 33119435.07 33119435.23 33119435.41 0.0135 0.0048

Uranus 85966-01-28 00:00 G 33119523.33 33119523.50 33119523.69 0.0135 0.0023

Uranus 85966-04-26 06:29 G 33119611.59 33119611.77 33119611.96 0.0135 0.0004

Uranus 85966-07-23 12:58 G 33119699.86 33119700.04 33119700.22 0.0135 0.0028

Moon 85966-08-31 00:29 G 33119738.46 33119738.52 33119738.59 0.2619 0.2151

Earth 85966-08-31 00:58 G 33119738.48 33119738.54 33119738.60 0.2625 0.2223 *

Uranus 85966-10-19 19:12 G 33119788.14 33119788.30 33119788.47 0.0135 0.0052

Uranus 85967-01-16 01:27 G 33119876.42 33119876.56 33119876.71 0.0134 0.0077

Uranus 85967-04-14 07:27 G 33119964.71 33119964.81 33119964.94 0.0134 0.0101

Uranus 85967-07-11 13:41 G 33120053.02 33120053.07 33120053.15 0.0134 0.0125

Mars 85967-11-07 13:56 G 33120171.99 33120172.08 33120172.17 0.1604 0.1057

Jupiter 85967-11-10 02:39 G 33120174.48 33120174.61 33120174.74 0.0510 0.0081

Mars 85969-10-12 16:05 G 33120877.06 33120877.17 33120877.29 0.1614 0.0429

Mars 85970-08-21 02:53 G 33121189.54 33121189.62 33121189.71 0.1927 0.1623

Saturn 85970-09-30 18:29 G 33121230.17 33121230.27 33121230.37 0.0262 0.0171

Saturn 85970-12-28 04:34 G 33121318.56 33121318.69 33121318.82 0.0262 0.0070

Saturn 85971-03-26 14:39 G 33121406.98 33121407.11 33121407.25 0.0261 0.0034

Saturn 85971-06-23 00:58 G 33121495.43 33121495.54 33121495.66 0.0261 0.0136

Saturn 85971-09-19 11:32 G 33121583.93 33121583.98 33121584.03 0.0261 0.0240

Earth 85973-08-23 21:36 G 33122288.31 33122288.40 33122288.49 0.2626 0.1563

Moon 85973-08-23 22:20 G 33122288.33 33122288.43 33122288.53 0.2625 0.1405 *

Jupiter 85974-01-07 05:46 G 33122424.66 33122424.74 33122424.83 0.0515 0.0454

Pluto 85976-03-15 22:20 G 33123223.37 33123223.43 33123223.51 0.0062 0.0056

Pluto 85976-06-11 23:17 G 33123311.37 33123311.47 33123311.60 0.0062 0.0046

Pluto 85976-09-08 00:29 G 33123399.38 33123399.52 33123399.67 0.0062 0.0035

Pluto 85976-12-05 01:27 G 33123487.41 33123487.56 33123487.73 0.0062 0.0025

Pluto 85977-03-03 02:39 G 33123575.44 33123575.61 33123575.78 0.0062 0.0014

Mars 85977-03-30 01:27 G 33123602.51 33123602.56 33123602.62 0.1602 0.1407

Pluto 85977-05-30 03:36 G 33123663.48 33123663.65 33123663.82 0.0062 0.0004

Venus 85977-06-27 12:15 G 33123691.96 33123692.01 33123692.07 0.3626 0.3049

Pluto 85977-08-26 04:34 G 33123751.52 33123751.69 33123751.86 0.0062 0.0007

Pluto 85977-11-22 05:32 G 33123839.57 33123839.73 33123839.90 0.0062 0.0017

Pluto 85978-02-18 06:15 G 33123927.62 33123927.76 33123927.93 0.0062 0.0028

Pluto 85978-05-17 07:12 G 33124015.68 33124015.80 33124015.95 0.0062 0.0039

Pluto 85978-08-13 08:10 G 33124103.75 33124103.84 33124103.96 0.0062 0.0049

Pluto 85978-11-09 09:22 G 33124191.85 33124191.89 33124191.95 0.0062 0.0060

Mars 85979-03-05 03:22 G 33124307.52 33124307.64 33124307.76 0.1611 0.0060

Jupiter 85979-08-29 07:12 G 33124484.68 33124484.80 33124484.91 0.0511 0.0243

Jupiter 85979-11-26 12:58 G 33124573.98 33124574.04 33124574.11 0.0508 0.0439

Mars 85981-02-07 06:44 G 33125012.77 33125012.78 33125012.79 0.1624 0.1616

Venus 85983-01-11 03:36 G 33125715.55 33125715.65 33125715.75 0.3626 0.0825

Earth 85984-02-23 23:32 G 33126124.42 33126124.48 33126124.54 0.2707 0.2439

Moon 85984-02-24 00:44 G 33126124.47 33126124.53 33126124.60 0.2703 0.2383 *

Saturn 85986-01-24 05:03 G 33126824.55 33126824.71 33126824.87 0.0299 0.0142

Jupiter 85986-01-24 12:44 G 33126824.89 33126825.03 33126825.17 0.0518 0.0304

Saturn 85986-04-23 05:32 G 33126913.55 33126913.73 33126913.90 0.0300 0.0067

Saturn 85986-07-21 05:17 G 33127002.65 33127002.72 33127002.80 0.0300 0.0271

Earth 85986-08-26 16:20 G 33127039.06 33127039.18 33127039.29 0.2626 0.0245

Moon 85986-08-26 16:48 G 33127039.08 33127039.20 33127039.32 0.2621 0.0227 *

Mars 85988-07-25 14:53 G 33127738.00 33127738.12 33127738.23 0.1609 0.0314

Venus 85988-07-26 18:58 G 33127739.20 33127739.29 33127739.39 0.3626 0.1449

Mars 85990-06-30 17:46 G 33128443.16 33128443.24 33128443.32 0.1621 0.1223

Mars 85991-05-10 17:17 G 33128757.08 33128757.22 33128757.36 0.1919 0.0921

Jupiter 85991-06-17 10:48 G 33128794.88 33128794.95 33128795.02 0.0511 0.0424

Jupiter 85991-09-14 16:34 G 33128884.07 33128884.19 33128884.30 0.0509 0.0255

Earth 85997-02-26 03:08 G 33130875.49 33130875.63 33130875.78 0.2707 0.0062

Moon 85997-02-26 03:22 G 33130875.50 33130875.64 33130875.79 0.2700 0.0147 *

Jupiter 85997-11-12 10:48 G 33131134.78 33131134.95 33131135.13 0.0517 0.0074

Mars 85997-12-16 02:24 G 33131168.49 33131168.60 33131168.70 0.1607 0.0670

Venus 85998-02-05 23:03 G 33131220.36 33131220.46 33131220.57 0.3746 0.2732

Moon 85999-08-29 11:03 G 33131789.85 33131789.96 33131790.06 0.2618 0.1152

Earth 85999-08-29 11:03 G 33131789.86 33131789.96 33131790.07 0.2625 0.1116 *

Mars 85999-11-21 04:48 G 33131873.60 33131873.70 33131873.80 0.1617 0.0840

Saturn 86000-02-17 20:53 G 33131962.29 33131962.37 33131962.46 0.0262 0.0203

Saturn 86000-05-16 06:58 G 33132050.67 33132050.79 33132050.92 0.0262 0.0102

Saturn 86000-08-12 17:17 G 33132139.08 33132139.22 33132139.36 0.0262 0.0001

Mars 86000-09-29 11:03 G 33132186.80 33132186.96 33132187.13 0.1923 0.0274

Saturn 86000-11-09 03:36 G 33132227.52 33132227.65 33132227.77 0.0261 0.0104

87TH MILLENNIUM CE

This is a list of transits of Mercury in the 87th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Saturn 86001-02-05 13:56 G 33132316.00 33132316.08 33132316.16 0.0261 0.0208

Jupiter 86003-07-03 20:39 G 33133194.23 33133194.36 33133194.49 0.0510 0.0087

Earth 86006-08-22 08:10 G 33134339.82 33134339.84 33134339.85 0.2626 0.2599

Moon 86006-08-22 08:39 G 33134339.83 33134339.86 33134339.90 0.2630 0.2494 *

Uranus 86007-02-11 14:53 G 33134513.08 33134513.12 33134513.18 0.0144 0.0132

Mars 86007-05-08 13:56 G 33134598.99 33134599.08 33134599.17 0.1604 0.1021

Uranus 86007-05-10 18:44 G 33134601.20 33134601.28 33134601.38 0.0144 0.0110

Uranus 86007-08-06 22:34 G 33134689.34 33134689.44 33134689.56 0.0144 0.0088

Uranus 86007-11-03 02:39 G 33134777.49 33134777.61 33134777.73 0.0144 0.0065

Uranus 86008-01-30 06:29 G 33134865.64 33134865.77 33134865.90 0.0144 0.0042

Uranus 86008-04-27 10:20 G 33134953.80 33134953.93 33134954.07 0.0144 0.0020

Uranus 86008-07-24 14:24 G 33135041.96 33135042.10 33135042.24 0.0144 0.0004

Uranus 86008-10-20 18:15 G 33135130.13 33135130.26 33135130.40 0.0144 0.0026

Uranus 86009-01-16 22:05 G 33135218.30 33135218.42 33135218.56 0.0144 0.0050

Mars 86009-04-12 16:05 G 33135304.06 33135304.17 33135304.28 0.1614 0.0463

Uranus 86009-04-15 02:10 G 33135306.48 33135306.59 33135306.71 0.0144 0.0073

Uranus 86009-07-12 06:15 G 33135394.66 33135394.76 33135394.86 0.0144 0.0096

Jupiter 86009-08-31 07:56 G 33135444.67 33135444.83 33135445.00 0.0516 0.0178

Uranus 86009-10-08 10:20 G 33135482.86 33135482.93 33135483.01 0.0144 0.0119

Uranus 86010-01-04 14:10 G 33135571.09 33135571.09 33135571.11 0.0144 0.0143

Mars 86010-02-19 03:51 G 33135616.56 33135616.66 33135616.76 0.1927 0.1537

Moon 86010-03-01 05:32 G 33135626.65 33135626.73 33135626.82 0.2702 0.2142

Earth 86010-03-01 06:15 G 33135626.69 33135626.76 33135626.83 0.2708 0.2313 *

Neptune 86010-06-27 18:44 G 33135745.28 33135745.28 33135745.28 0.0088 0.0088

Neptune 86010-09-23 19:56 G 33135833.29 33135833.33 33135833.39 0.0088 0.0081

Neptune 86010-12-20 21:22 G 33135921.32 33135921.39 33135921.47 0.0088 0.0074

Neptune 86011-03-18 22:34 G 33136009.37 33136009.44 33136009.55 0.0088 0.0067

Neptune 86011-06-15 00:15 G 33136097.42 33136097.51 33136097.62 0.0088 0.0059

Neptune 86011-09-11 01:41 G 33136185.47 33136185.57 33136185.69 0.0088 0.0052

Neptune 86011-12-08 03:08 G 33136273.52 33136273.63 33136273.75 0.0088 0.0045

Neptune 86012-03-05 04:34 G 33136361.57 33136361.69 33136361.82 0.0088 0.0037

Neptune 86012-06-01 06:15 G 33136449.63 33136449.76 33136449.89 0.0088 0.0030

Neptune 86012-08-28 07:27 G 33136537.68 33136537.81 33136537.95 0.0088 0.0023

Moon 86012-08-31 05:32 G 33136540.68 33136540.73 33136540.77 0.2620 0.2400

Earth 86012-08-31 06:00 G 33136540.72 33136540.75 33136540.78 0.2625 0.2496 *

Neptune 86012-11-24 08:53 G 33136625.74 33136625.87 33136626.01 0.0088 0.0016

Neptune 86013-02-20 10:34 G 33136713.80 33136713.94 33136714.08 0.0088 0.0008

Neptune 86013-05-19 12:00 G 33136801.86 33136802.00 33136802.14 0.0088 0.0001

Neptune 86013-08-15 13:27 G 33136889.92 33136890.06 33136890.20 0.0088 0.0007

Neptune 86013-11-11 14:53 G 33136977.98 33136978.12 33136978.26 0.0088 0.0014

Neptune 86014-02-07 16:20 G 33137066.05 33137066.18 33137066.32 0.0088 0.0022

Neptune 86014-05-06 17:46 G 33137154.11 33137154.24 33137154.38 0.0088 0.0029

Neptune 86014-08-02 19:12 G 33137242.18 33137242.30 33137242.43 0.0088 0.0037

Neptune 86014-10-29 20:53 G 33137330.25 33137330.37 33137330.49 0.0088 0.0044

Neptune 86015-01-25 22:20 G 33137418.32 33137418.43 33137418.55 0.0088 0.0052

Jupiter 86015-04-22 01:12 G 33137504.42 33137504.55 33137504.68 0.0510 0.0075

Neptune 86015-04-23 23:46 G 33137506.39 33137506.49 33137506.60 0.0088 0.0059

Saturn 86015-06-13 02:39 G 33137556.48 33137556.61 33137556.73 0.0300 0.0210

Neptune 86015-07-21 01:12 G 33137594.47 33137594.55 33137594.65 0.0088 0.0067

Saturn 86015-09-10 03:08 G 33137645.45 33137645.63 33137645.81 0.0300 0.0000

Neptune 86015-10-17 02:53 G 33137682.55 33137682.62 33137682.70 0.0088 0.0074

Saturn 86015-12-08 03:08 G 33137734.51 33137734.63 33137734.76 0.0300 0.0206

Neptune 86016-01-13 04:20 G 33137770.64 33137770.68 33137770.74 0.0088 0.0082

Mars 86016-09-28 01:27 G 33138029.50 33138029.56 33138029.62 0.1602 0.1369

Mars 86018-09-03 03:22 G 33138734.52 33138734.64 33138734.76 0.1612 0.0094

Earth 86019-08-25 02:39 G 33139090.51 33139090.61 33139090.71 0.2626 0.1301

Moon 86019-08-25 03:22 G 33139090.54 33139090.64 33139090.74 0.2624 0.1256 *

Jupiter 86021-06-19 05:17 G 33139754.63 33139754.72 33139754.82 0.0515 0.0424

Jupiter 86027-02-08 06:00 G 33141814.63 33141814.75 33141814.86 0.0511 0.0234

Jupiter 86027-05-08 11:46 G 33141903.93 33141903.99 33141904.05 0.0508 0.0449

Mars 86028-01-24 14:53 G 33142165.00 33142165.12 33142165.23 0.1609 0.0276

Saturn 86029-07-06 23:03 G 33142694.41 33142694.46 33142694.52 0.0262 0.0238

Saturn 86029-10-03 09:08 G 33142782.77 33142782.88 33142783.00 0.0262 0.0137

Mars 86029-12-29 17:46 G 33142870.17 33142870.24 33142870.31 0.1621 0.1261

Saturn 86029-12-30 19:12 G 33142871.17 33142871.30 33142871.44 0.0261 0.0036

Earth 86030-02-24 05:46 G 33142926.64 33142926.74 33142926.84 0.2707 0.1987

Moon 86030-02-24 06:44 G 33142926.67 33142926.78 33142926.88 0.2702 0.1804 *

Saturn 86030-03-29 05:32 G 33142959.60 33142959.73 33142959.86 0.0261 0.0068

Saturn 86030-06-25 15:51 G 33143048.06 33143048.16 33143048.27 0.0261 0.0171

Mars 86030-11-08 18:00 G 33143184.11 33143184.25 33143184.39 0.1918 0.1002

Earth 86032-08-26 21:08 G 33143841.27 33143841.38 33143841.50 0.2625 0.0100

Moon 86032-08-26 21:36 G 33143841.28 33143841.40 33143841.52 0.2620 0.0151 *

Jupiter 86033-07-06 11:17 G 33144154.83 33144154.97 33144155.11 0.0518 0.0317

Venus 86034-02-01 09:36 G 33144364.82 33144364.90 33144364.98 0.3626 0.2221

Mars 86037-06-16 02:10 G 33145595.49 33145595.59 33145595.70 0.1606 0.0637

Jupiter 86038-11-27 10:34 G 33146124.86 33146124.94 33146125.02 0.0512 0.0394

Jupiter 86039-02-24 16:20 G 33146214.07 33146214.18 33146214.29 0.0509 0.0286

Mars 86039-05-22 04:48 G 33146300.60 33146300.70 33146300.80 0.1617 0.0877

Venus 86039-08-18 00:58 G 33146388.44 33146388.54 33146388.65 0.3626 0.0112

Mars 86040-03-30 11:32 G 33146613.82 33146613.98 33146614.15 0.1923 0.0208

Earth 86043-02-27 09:22 G 33147677.74 33147677.89 33147678.03 0.2707 0.0429

Moon 86043-02-27 09:36 G 33147677.75 33147677.90 33147678.04 0.2700 0.0359 *

Saturn 86045-01-26 21:51 G 33148377.24 33148377.41 33148377.58 0.0299 0.0090

Venus 86045-03-02 16:34 G 33148412.11 33148412.19 33148412.27 0.3626 0.2296

Jupiter 86045-04-24 09:51 G 33148464.74 33148464.91 33148465.08 0.0517 0.0091

Saturn 86045-04-25 22:05 G 33148466.26 33148466.42 33148466.59 0.0300 0.0118

Moon 86045-08-29 15:51 G 33148592.06 33148592.16 33148592.27 0.2618 0.1306

Earth 86045-08-29 16:05 G 33148592.07 33148592.17 33148592.27 0.2625 0.1390 *

Mars 86046-11-06 13:56 G 33149025.98 33149026.08 33149026.17 0.1604 0.0988

Mars 86048-10-11 16:05 G 33149731.05 33149731.17 33149731.28 0.1614 0.0497

Uranus 86049-03-01 04:34 G 33149871.61 33149871.69 33149871.78 0.0135 0.0118

Uranus 86049-05-28 11:03 G 33149959.83 33149959.96 33149960.10 0.0134 0.0093

Mars 86049-08-20 04:48 G 33150043.59 33150043.70 33150043.80 0.1927 0.1449

Uranus 86049-08-24 17:32 G 33150048.08 33150048.23 33150048.40 0.0134 0.0067

Uranus 86049-11-21 00:00 G 33150136.34 33150136.50 33150136.68 0.0134 0.0043

Uranus 86050-02-17 06:29 G 33150224.60 33150224.77 33150224.96 0.0134 0.0018

Uranus 86050-05-16 12:58 G 33150312.86 33150313.04 33150313.23 0.0134 0.0009

Uranus 86050-08-12 19:27 G 33150401.13 33150401.31 33150401.49 0.0134 0.0033

Uranus 86050-11-09 01:41 G 33150489.41 33150489.57 33150489.74 0.0134 0.0057

Jupiter 86050-12-13 19:56 G 33150524.20 33150524.33 33150524.46 0.0509 0.0103

Uranus 86051-02-05 07:56 G 33150577.69 33150577.83 33150577.98 0.0134 0.0082

Uranus 86051-05-04 14:10 G 33150665.99 33150666.09 33150666.20 0.0134 0.0106

Uranus 86051-07-31 20:10 G 33150754.31 33150754.34 33150754.40 0.0134 0.0130

Earth 86052-08-22 12:58 G 33151141.99 33151142.04 33151142.09 0.2626 0.2347

Moon 86052-08-22 13:41 G 33151142.01 33151142.07 33151142.13 0.2628 0.2269 *

Venus 86054-09-13 01:12 G 33151893.39 33151893.55 33151893.70 0.3746 0.0125

Mars 86056-03-29 01:27 G 33152456.50 33152456.56 33152456.62 0.1602 0.1335

Jupiter 86057-02-10 07:56 G 33152774.66 33152774.83 33152775.00 0.0516 0.0142

Mars 86058-03-04 03:22 G 33153161.52 33153161.64 33153161.76 0.1612 0.0127

Saturn 86059-02-20 11:32 G 33153514.88 33153514.98 33153515.09 0.0262 0.0169

Saturn 86059-05-19 21:51 G 33153603.28 33153603.41 33153603.54 0.0262 0.0067

Saturn 86059-08-16 07:56 G 33153691.70 33153691.83 33153691.97 0.0262 0.0037

Saturn 86059-11-12 18:15 G 33153780.15 33153780.26 33153780.38 0.0261 0.0140

Saturn 86060-02-09 04:48 G 33153868.66 33153868.70 33153868.75 0.0261 0.0244

Jupiter 86062-10-02 00:00 G 33154834.37 33154834.50 33154834.63 0.0510 0.0067

Earth 86065-08-25 07:27 G 33155892.71 33155892.81 33155892.92 0.2626 0.1040

Moon 86065-08-25 08:10 G 33155892.74 33155892.84 33155892.95 0.2624 0.0897 *

Mars 86067-07-25 14:53 G 33156592.00 33156592.12 33156592.23 0.1609 0.0243

Pluto 86068-01-23 00:44 G 33156773.53 33156773.53 33156773.57 0.0082 0.0081

Pluto 86068-04-20 02:24 G 33156861.51 33156861.60 33156861.71 0.0082 0.0060

Pluto 86068-07-17 03:51 G 33156949.54 33156949.66 33156949.79 0.0082 0.0040

Pluto 86068-10-13 05:17 G 33157037.59 33157037.72 33157037.87 0.0082 0.0020

Jupiter 86068-11-29 04:48 G 33157084.59 33157084.70 33157084.82 0.0515 0.0394

Pluto 86069-01-09 06:44 G 33157125.64 33157125.78 33157125.93 0.0082 0.0003

Pluto 86069-04-07 08:10 G 33157213.70 33157213.84 33157213.98 0.0082 0.0021

Mars 86069-06-29 17:46 G 33157297.17 33157297.24 33157297.31 0.1621 0.1298

Pluto 86069-07-04 09:22 G 33157301.78 33157301.89 33157302.03 0.0081 0.0042

Pluto 86069-09-30 10:48 G 33157389.87 33157389.95 33157390.05 0.0081 0.0062

Mars 86070-05-09 18:58 G 33157611.15 33157611.29 33157611.42 0.1918 0.1085

Saturn 86074-06-15 19:56 G 33159109.18 33159109.33 33159109.48 0.0300 0.0154

Jupiter 86074-07-21 04:34 G 33159144.57 33159144.69 33159144.80 0.0511 0.0230

Saturn 86074-09-12 20:24 G 33159198.17 33159198.35 33159198.52 0.0300 0.0055

Jupiter 86074-10-18 10:20 G 33159233.88 33159233.93 33159233.99 0.0508 0.0454

Saturn 86074-12-10 20:10 G 33159287.26 33159287.34 33159287.43 0.0300 0.0261

Earth 86076-02-25 12:00 G 33159728.88 33159729.00 33159729.12 0.2707 0.1532

Moon 86076-02-25 12:44 G 33159728.91 33159729.03 33159729.15 0.2701 0.1474 *

Mars 86076-12-15 02:10 G 33160022.48 33160022.59 33160022.70 0.1606 0.0599

Earth 86078-08-28 02:10 G 33160643.48 33160643.59 33160643.71 0.2625 0.0306

Moon 86078-08-28 02:24 G 33160643.49 33160643.60 33160643.72 0.2619 0.0286 *

Mars 86078-11-20 04:48 G 33160727.60 33160727.70 33160727.80 0.1617 0.0911

Mars 86079-09-29 12:29 G 33161040.86 33161041.02 33161041.19 0.1923 0.0121

Jupiter 86080-12-16 10:34 G 33161484.81 33161484.94 33161485.07 0.0517 0.0343

Venus 86085-02-22 15:51 G 33163014.15 33163014.16 33163014.16 0.3626 0.3597

Mars 86086-05-07 13:56 G 33163452.98 33163453.08 33163453.17 0.1604 0.0954

Jupiter 86086-05-09 09:08 G 33163454.80 33163454.88 33163454.97 0.0512 0.0388

Jupiter 86086-08-06 14:53 G 33163544.02 33163544.12 33163544.23 0.0509 0.0293

Mars 86088-04-11 16:05 G 33164158.06 33164158.17 33164158.28 0.1614 0.0534

Saturn 86088-07-09 13:56 G 33164247.00 33164247.08 33164247.17 0.0262 0.0202

Saturn 86088-10-06 00:00 G 33164335.38 33164335.50 33164335.63 0.0262 0.0101

Saturn 86089-01-02 10:20 G 33164423.79 33164423.93 33164424.07 0.0261 0.0003

Mars 86089-02-18 05:17 G 33164470.61 33164470.72 33164470.84 0.1927 0.1371

Moon 86089-02-27 15:22 G 33164480.00 33164480.14 33164480.27 0.2701 0.0935

Earth 86089-02-27 15:22 G 33164480.01 33164480.14 33164480.28 0.2707 0.0867 *

Saturn 86089-03-31 20:39 G 33164512.23 33164512.36 33164512.48 0.0261 0.0105

Saturn 86089-06-28 06:58 G 33164600.71 33164600.79 33164600.87 0.0261 0.0209

Venus 86090-09-08 06:58 G 33165037.70 33165037.79 33165037.89 0.3626 0.1390

Uranus 86091-03-03 22:05 G 33165214.36 33165214.42 33165214.49 0.0144 0.0127

Uranus 86091-05-31 01:56 G 33165302.49 33165302.58 33165302.68 0.0144 0.0104

Uranus 86091-08-27 05:46 G 33165390.63 33165390.74 33165390.85 0.0144 0.0082

Moon 86091-08-30 20:53 G 33165394.28 33165394.37 33165394.46 0.2619 0.1695

Earth 86091-08-30 21:08 G 33165394.29 33165394.38 33165394.47 0.2625 0.1665 *

Uranus 86091-11-23 09:36 G 33165478.78 33165478.90 33165479.03 0.0144 0.0060

Uranus 86092-02-19 13:27 G 33165566.93 33165567.06 33165567.20 0.0144 0.0038

Uranus 86092-05-17 17:32 G 33165655.09 33165655.23 33165655.37 0.0144 0.0014

Uranus 86092-08-13 21:22 G 33165743.25 33165743.39 33165743.53 0.0144 0.0009

Jupiter 86092-10-04 08:10 G 33165794.67 33165794.84 33165795.01 0.0517 0.0101

Uranus 86092-11-10 01:12 G 33165831.42 33165831.55 33165831.69 0.0144 0.0032

Uranus 86093-02-06 05:17 G 33165919.59 33165919.72 33165919.85 0.0144 0.0055

Uranus 86093-05-05 09:08 G 33166007.77 33166007.88 33166008.00 0.0144 0.0078

Uranus 86093-08-01 13:12 G 33166095.96 33166096.05 33166096.15 0.0144 0.0101

Neptune 86093-09-21 11:17 G 33166146.93 33166146.97 33166147.03 0.0090 0.0086

Uranus 86093-10-28 17:17 G 33166184.16 33166184.22 33166184.29 0.0144 0.0124

Neptune 86093-12-18 14:24 G 33166235.02 33166235.10 33166235.21 0.0090 0.0076

Neptune 86094-03-16 17:46 G 33166323.13 33166323.24 33166323.38 0.0090 0.0065

Neptune 86094-06-12 20:53 G 33166411.24 33166411.37 33166411.53 0.0090 0.0055

Neptune 86094-09-09 00:15 G 33166499.36 33166499.51 33166499.68 0.0090 0.0044

Neptune 86094-12-06 03:22 G 33166587.48 33166587.64 33166587.82 0.0090 0.0034

Neptune 86095-03-04 06:58 G 33166675.61 33166675.79 33166675.96 0.0090 0.0023

Neptune 86095-05-31 10:05 G 33166763.74 33166763.92 33166764.10 0.0090 0.0013

Neptune 86095-08-27 13:12 G 33166851.87 33166852.05 33166852.23 0.0090 0.0003

Mars 86095-09-28 01:27 G 33166883.49 33166883.56 33166883.62 0.1602 0.1303

Neptune 86095-11-23 16:20 G 33166940.00 33166940.18 33166940.37 0.0090 0.0008

Neptune 86096-02-19 19:27 G 33167028.14 33167028.31 33167028.49 0.0090 0.0018

Venus 86096-03-23 22:20 G 33167061.33 33167061.43 33167061.53 0.3626 0.0870

Neptune 86096-05-17 22:34 G 33167116.27 33167116.44 33167116.62 0.0090 0.0029

Neptune 86096-08-14 01:41 G 33167204.41 33167204.57 33167204.74 0.0090 0.0039

Neptune 86096-11-10 04:48 G 33167292.55 33167292.70 33167292.86 0.0090 0.0049

Neptune 86097-02-06 07:41 G 33167380.70 33167380.82 33167380.97 0.0090 0.0059

Neptune 86097-05-05 10:48 G 33167468.85 33167468.95 33167469.07 0.0090 0.0069

Neptune 86097-08-01 13:56 G 33167557.01 33167557.08 33167557.17 0.0090 0.0079

Mars 86097-09-02 03:22 G 33167588.52 33167588.64 33167588.76 0.1611 0.0161

Neptune 86097-10-28 16:48 G 33167645.19 33167645.20 33167645.24 0.0090 0.0089

Jupiter 86098-05-25 19:27 G 33167854.18 33167854.31 33167854.44 0.0510 0.0130

Earth 86098-08-23 18:00 G 33167944.18 33167944.25 33167944.31 0.2626 0.2089

Moon 86098-08-23 18:44 G 33167944.21 33167944.28 33167944.35 0.2627 0.2013 *

Venus 86101-10-08 13:56 G 33169085.03 33169085.08 33169085.13 0.3626 0.3143

Saturn 86103-11-03 14:53 G 33169841.01 33169841.12 33169841.22 0.0299 0.0241

Saturn 86104-01-31 15:22 G 33169929.96 33169930.14 33169930.32 0.0299 0.0032

Saturn 86104-04-29 15:36 G 33170019.01 33170019.15 33170019.29 0.0300 0.0175

Jupiter 86104-07-24 06:29 G 33170104.60 33170104.77 33170104.94 0.0516 0.0128

Mars 86107-01-24 14:39 G 33171019.00 33171019.11 33171019.23 0.1609 0.0210

Mars 86108-12-29 17:46 G 33171724.17 33171724.24 33171724.30 0.1620 0.1329

Mars 86109-11-08 19:27 G 33172038.18 33172038.31 33172038.44 0.1919 0.1155

Jupiter 86110-03-14 23:03 G 33172164.33 33172164.46 33172164.59 0.0510 0.0053

Venus 86111-04-21 02:53 G 33172566.51 33172566.62 33172566.74 0.3746 0.2486

Earth 86111-08-27 12:29 G 33172694.91 33172695.02 33172695.13 0.2626 0.0776

Moon 86111-08-27 13:12 G 33172694.94 33172695.05 33172695.16 0.2623 0.0718 *

Jupiter 86116-05-12 04:34 G 33174414.56 33174414.69 33174414.81 0.0516 0.0364

Mars 86116-06-16 02:10 G 33174449.48 33174449.59 33174449.70 0.1606 0.0563

Saturn 86117-11-27 16:34 G 33174979.14 33174979.19 33174979.25 0.0263 0.0234

Saturn 86118-02-24 02:39 G 33175067.50 33175067.61 33175067.73 0.0262 0.0132

Mars 86118-05-22 04:48 G 33175154.60 33175154.70 33175154.80 0.1617 0.0945

Saturn 86118-05-23 12:58 G 33175155.90 33175156.04 33175156.17 0.0262 0.0030

Saturn 86118-08-19 23:17 G 33175244.34 33175244.47 33175244.60 0.0262 0.0074

Saturn 86118-11-16 09:36 G 33175332.80 33175332.90 33175333.00 0.0261 0.0178

Mars 86119-03-31 13:27 G 33175467.90 33175468.06 33175468.23 0.1923 0.0051

Jupiter 86122-01-01 03:08 G 33176474.52 33176474.63 33176474.75 0.0511 0.0222

Earth 86122-02-26 18:00 G 33176531.12 33176531.25 33176531.39 0.2707 0.1077

Moon 86122-02-26 18:44 G 33176531.15 33176531.28 33176531.42 0.2701 0.0956 *

Jupiter 86122-03-31 09:08 G 33176563.82 33176563.88 33176563.93 0.0508 0.0459

Moon 86124-08-29 07:27 G 33177445.69 33177445.81 33177445.92 0.2619 0.0641

Earth 86124-08-29 07:12 G 33177445.69 33177445.80 33177445.91 0.2625 0.0567 *

Mars 86125-11-06 13:41 G 33177879.98 33177880.07 33177880.17 0.1604 0.0919

Mars 86127-10-12 16:05 G 33178585.06 33178585.17 33178585.28 0.1614 0.0570

Jupiter 86128-05-29 09:36 G 33178814.79 33178814.90 33178815.03 0.0517 0.0368

Mars 86128-08-20 06:15 G 33178897.64 33178897.76 33178897.88 0.1927 0.1284

Uranus 86133-03-22 11:03 G 33180572.87 33180572.96 33180573.07 0.0134 0.0112

Uranus 86133-06-18 17:46 G 33180661.11 33180661.24 33180661.39 0.0134 0.0087

Saturn 86133-06-19 13:56 G 33180661.92 33180662.08 33180662.26 0.0300 0.0091

Uranus 86133-09-15 00:15 G 33180749.35 33180749.51 33180749.68 0.0134 0.0062

Saturn 86133-09-16 14:24 G 33180750.94 33180751.10 33180751.26 0.0300 0.0118

Jupiter 86133-10-20 07:41 G 33180784.73 33180784.82 33180784.90 0.0512 0.0386

Uranus 86133-12-12 06:44 G 33180837.61 33180837.78 33180837.96 0.0134 0.0037

Jupiter 86134-01-17 13:27 G 33180873.95 33180874.06 33180874.17 0.0509 0.0294

Uranus 86134-03-10 13:27 G 33180925.87 33180926.06 33180926.24 0.0134 0.0012

Uranus 86134-06-06 19:41 G 33181014.14 33181014.32 33181014.50 0.0134 0.0014

Uranus 86134-09-03 01:56 G 33181102.41 33181102.58 33181102.76 0.0134 0.0039

Uranus 86134-11-30 08:10 G 33181190.69 33181190.84 33181191.01 0.0134 0.0063

Uranus 86135-02-26 14:24 G 33181278.98 33181279.10 33181279.25 0.0134 0.0088

Moon 86135-03-01 21:08 G 33181282.25 33181282.38 33181282.51 0.2701 0.1195

Earth 86135-03-01 21:22 G 33181282.27 33181282.39 33181282.52 0.2708 0.1312 *

Mars 86135-03-30 01:27 G 33181310.49 33181310.56 33181310.63 0.1602 0.1265

Uranus 86135-05-25 20:39 G 33181367.27 33181367.36 33181367.47 0.0134 0.0112

Mars 86137-03-04 03:22 G 33182015.52 33182015.64 33182015.76 0.1611 0.0197

Moon 86137-09-01 01:41 G 33182196.49 33182196.57 33182196.65 0.2620 0.1828

Earth 86137-09-01 01:56 G 33182196.51 33182196.58 33182196.66 0.2625 0.1946 *

Jupiter 86140-03-17 07:12 G 33183124.63 33183124.80 33183124.97 0.0517 0.0123

Venus	86141-09-30 12:58 G	33183686.98	33183687.04	33183687.11	0.3626	0.2780
Earth	86144-08-24 22:48 G	33184746.37	33184746.45	33184746.53	0.2626	0.1834
Moon	86144-08-24 23:32 G	33184746.40	33184746.48	33184746.57	0.2627	0.1699 *
Jupiter	86145-11-05 18:00 G	33185184.12	33185184.25	33185184.37	0.0510	0.0133
Mars	86146-07-25 14:39 G	33185446.00	33185446.11	33185446.23	0.1609	0.0176
Venus	86147-04-16 04:20 G	33185710.58	33185710.68	33185710.79	0.3626	0.0568
Saturn	86147-07-14 05:17 G	33185799.62	33185799.72	33185799.83	0.0262	0.0163
Saturn	86147-10-10 15:36 G	33185888.01	33185888.15	33185888.28	0.0262	0.0061
Saturn	86148-01-07 01:41 G	33185976.44	33185976.57	33185976.71	0.0261	0.0043
Saturn	86148-04-04 12:00 G	33186064.89	33186065.00	33186065.12	0.0261	0.0146
Mars	86148-06-29 17:46 G	33186151.18	33186151.24	33186151.30	0.1621	0.1367
Saturn	86148-07-01 22:34 G	33186153.40	33186153.44	33186153.47	0.0261	0.0250
Mars	86149-05-09 20:24 G	33186465.23	33186465.35	33186465.48	0.1918	0.1240
Jupiter	86152-01-04 04:34 G	33187434.52	33187434.69	33187434.86	0.0516	0.0124
Venus	86152-10-29 19:56 G	33187734.23	33187734.33	33187734.42	0.3626	0.1707
Mars	86155-12-16 02:10 G	33188876.48	33188876.59	33188876.70	0.1606	0.0532
Jupiter	86157-08-24 22:20 G	33189494.30	33189494.43	33189494.56	0.0510	0.0032
Earth	86157-08-27 17:32 G	33189497.11	33189497.23	33189497.34	0.2626	0.0521
Moon	86157-08-27 18:00 G	33189497.13	33189497.25	33189497.37	0.2622	0.0431 *
Mars	86157-11-20 04:48 G	33189581.61	33189581.70	33189581.79	0.1617	0.0981
Mars	86158-09-29 13:56 G	33189894.91	33189895.08	33189895.24	0.1923	0.0045
Venus	86162-05-11 20:10 G	33191215.24	33191215.34	33191215.44	0.3747	0.2839
Saturn	86162-11-06 09:51 G	33191393.77	33191393.91	33191394.06	0.0299	0.0170
Saturn	86163-02-03 10:20 G	33191482.76	33191482.93	33191483.11	0.0299	0.0039
Saturn	86163-05-03 10:20 G	33191571.83	33191571.93	33191572.04	0.0300	0.0244
Jupiter	86163-10-23 02:39 G	33191744.49	33191744.61	33191744.74	0.0516	0.0357
Mars	86165-05-07 13:41 G	33192306.97	33192307.07	33192307.17	0.1604	0.0883
Mars	86167-04-12 15:51 G	33193012.05	33193012.16	33193012.27	0.1614	0.0600
Mars	86168-02-19 07:12 G	33193324.67	33193324.80	33193324.93	0.1928	0.1195
Earth	86168-02-28 00:15 G	33193333.37	33193333.51	33193333.65	0.2707	0.0617

Moon 86168-02-28 00:58 G 33193333.39 33193333.54 33193333.68 0.2701 0.0541 *

Jupiter 86169-06-13 02:10 G 33193804.47 33193804.59 33193804.71 0.0510 0.0211

Jupiter 86169-09-10 07:56 G 33193893.78 33193893.83 33193893.88 0.0508 0.0469

Moon 86170-08-30 12:15 G 33194247.90 33194248.01 33194248.13 0.2618 0.0819

Earth 86170-08-30 12:15 G 33194247.90 33194248.01 33194248.12 0.2625 0.0842 *

Mars 86174-09-28 01:27 G 33195737.48 33195737.56 33195737.63 0.1602 0.1232

Uranus 86175-03-25 04:48 G 33195915.64 33195915.70 33195915.77 0.0144 0.0123

Neptune 86175-03-25 18:29 G 33195916.23 33195916.27 33195916.32 0.0088 0.0083

Uranus 86175-06-21 08:24 G 33196003.77 33196003.85 33196003.96 0.0144 0.0102

Neptune 86175-06-21 19:56 G 33196004.27 33196004.33 33196004.40 0.0088 0.0076

Uranus 86175-09-17 12:29 G 33196091.91 33196092.02 33196092.14 0.0144 0.0079

Neptune 86175-09-17 21:08 G 33196092.31 33196092.38 33196092.48 0.0088 0.0069

Jupiter 86175-11-09 08:53 G 33196144.76 33196144.87 33196144.99 0.0518 0.0391

Uranus 86175-12-14 16:20 G 33196180.06 33196180.18 33196180.31 0.0144 0.0057

Neptune 86175-12-14 22:34 G 33196180.36 33196180.44 33196180.55 0.0088 0.0062

Uranus 86176-03-11 20:24 G 33196268.21 33196268.35 33196268.48 0.0144 0.0034

Neptune 86176-03-12 00:00 G 33196268.40 33196268.50 33196268.62 0.0088 0.0055 *

Uranus 86176-06-08 00:15 G 33196356.37 33196356.51 33196356.65 0.0144 0.0011

Neptune 86176-06-08 01:41 G 33196356.45 33196356.57 33196356.69 0.0088 0.0047 *

Mars 86176-09-02 03:22 G 33196442.52 33196442.64 33196442.76 0.1611 0.0233

Neptune 86176-09-04 03:08 G 33196444.51 33196444.63 33196444.75 0.0088 0.0040

Uranus 86176-09-04 04:05 G 33196444.53 33196444.67 33196444.81 0.0144 0.0012 *

Saturn 86176-11-30 07:56 G 33196531.75 33196531.83 33196531.93 0.0263 0.0194

Neptune 86176-12-01 04:20 G 33196532.56 33196532.68 33196532.82 0.0088 0.0033

Uranus 86176-12-01 08:10 G 33196532.70 33196532.84 33196532.97 0.0144 0.0035 *

Saturn 86177-02-26 18:15 G 33196620.13 33196620.26 33196620.38 0.0262 0.0091

Neptune 86177-02-27 05:46 G 33196620.62 33196620.74 33196620.88 0.0088 0.0026

Uranus 86177-02-27 12:00 G 33196620.88 33196621.00 33196621.13 0.0144 0.0058 *

Saturn 86177-05-26 04:20 G 33196708.55 33196708.68 33196708.82 0.0262 0.0013

Neptune 86177-05-26 07:27 G 33196708.67 33196708.81 33196708.95 0.0088 0.0018 *

Uranus 86177-05-26 16:05 G 33196709.05 33196709.17 33196709.28 0.0144 0.0081

Neptune 86177-08-22 08:53 G 33196796.73 33196796.87 33196797.01 0.0088 0.0011

Saturn 86177-08-22 14:39 G 33196796.99 33196797.11 33196797.24 0.0262 0.0116 *

Uranus 86177-08-22 19:56 G 33196797.24 33196797.33 33196797.43 0.0144 0.0105 *

Neptune 86177-11-18 10:20 G 33196884.79 33196884.93 33196885.07 0.0088 0.0003

Uranus 86177-11-19 00:00 G 33196885.44 33196885.50 33196885.57 0.0144 0.0128

Saturn 86177-11-19 00:58 G 33196885.48 33196885.54 33196885.62 0.0262 0.0221 *

Neptune 86178-02-14 11:46 G 33196972.85 33196972.99 33196973.13 0.0088 0.0004

Neptune 86178-05-13 13:12 G 33197060.91 33197061.05 33197061.19 0.0088 0.0011

Neptune 86178-08-09 14:39 G 33197148.98 33197149.11 33197149.25 0.0088 0.0019

Neptune 86178-11-05 16:05 G 33197237.04 33197237.17 33197237.31 0.0088 0.0026

Neptune 86179-02-01 17:32 G 33197325.11 33197325.23 33197325.37 0.0088 0.0034

Neptune 86179-04-30 19:12 G 33197413.18 33197413.30 33197413.42 0.0088 0.0041

Neptune 86179-07-27 20:39 G 33197501.25 33197501.36 33197501.48 0.0088 0.0049

Neptune 86179-10-23 21:51 G 33197589.32 33197589.41 33197589.53 0.0088 0.0057

Neptune 86180-01-19 23:32 G 33197677.39 33197677.48 33197677.58 0.0088 0.0064

Neptune 86180-04-17 00:58 G 33197765.47 33197765.54 33197765.63 0.0088 0.0072

Neptune 86180-07-14 02:39 G 33197853.56 33197853.61 33197853.68 0.0088 0.0079

Neptune 86180-10-10 03:51 G 33197941.66 33197941.66 33197941.70 0.0088 0.0087

Moon 86181-03-02 03:08 G 33198084.52 33198084.63 33198084.74 0.2701 0.1714

Earth 86181-03-02 03:36 G 33198084.54 33198084.65 33198084.76 0.2708 0.1754 *

Jupiter 86181-04-01 06:15 G 33198114.68 33198114.76 33198114.85 0.0511 0.0381

Jupiter 86181-06-29 12:00 G 33198203.89 33198204.00 33198204.11 0.0509 0.0298

Moon 86183-09-02 06:29 G 33198998.71 33198998.77 33198998.83 0.2620 0.2190

Earth 86183-09-02 06:58 G 33198998.73 33198998.79 33198998.85 0.2625 0.2214 *

Mars 86184-02-18 12:58 G 33199168.02 33199168.04 33199168.06 0.1600 0.1574

Mars 86186-01-23 14:39 G 33199872.99 33199873.11 33199873.23 0.1609 0.0137

Jupiter 86187-08-28 06:00 G 33200454.58 33200454.75 33200454.92 0.0517 0.0141

Mars 86187-12-29 17:46 G 33200578.18 33200578.24 33200578.30 0.1621 0.1402

Mars 86188-11-07 21:08 G 33200892.26 33200892.38 33200892.49 0.1918 0.1313

Earth 86190-08-26 03:51 G 33201548.56 33201548.66 33201548.75 0.2626 0.1573

Moon 86190-08-26 04:34 G 33201548.60 33201548.69 33201548.78 0.2626 0.1516 *

Saturn 86192-03-25 08:53 G 33202125.76 33202125.87 33202125.99 0.0299 0.0226

Saturn 86192-06-22 09:36 G 33202214.72 33202214.90 33202215.08 0.0300 0.0016

Saturn 86192-09-19 09:36 G 33202303.77 33202303.90 33202304.04 0.0300 0.0191

Jupiter 86193-04-17 16:20 G 33202514.05 33202514.18 33202514.30 0.0510 0.0132

Mars 86195-06-16 02:10 G 33203303.48 33203303.59 33203303.70 0.1606 0.0494

Mars 86197-05-21 04:48 G 33204008.61 33204008.70 33204008.79 0.1617 0.1016

Mars 86198-03-30 14:53 G 33204321.96 33204322.12 33204322.29 0.1923 0.0134

Venus 86198-05-07 10:20 G 33204359.85 33204359.93 33204360.02 0.3626 0.1962

Jupiter 86199-06-16 03:22 G 33204764.46 33204764.64 33204764.81 0.0516 0.0108

Earth 86201-02-26 02:39 G 33205384.58 33205384.61 33205384.64 0.2707 0.2618

Moon 86201-02-26 03:51 G 33205384.59 33205384.66 33205384.73 0.2702 0.2374 *

Earth 86203-08-29 22:20 G 33206299.32 33206299.43 33206299.55 0.2626 0.0252

Moon 86203-08-29 22:48 G 33206299.34 33206299.45 33206299.57 0.2620 0.0171 *

Venus 86203-11-22 01:41 G 33206383.47 33206383.57 33206383.68 0.3626 0.0299

Mars 86204-11-06 13:41 G 33206733.97 33206734.07 33206734.17 0.1604 0.0849

Jupiter 86205-02-04 20:39 G 33206824.23 33206824.36 33206824.49 0.0510 0.0033

Saturn 86206-04-20 11:03 G 33207263.89 33207263.96 33207264.03 0.0262 0.0220

Saturn 86206-07-17 21:08 G 33207352.26 33207352.38 33207352.50 0.0262 0.0119

Mars 86206-10-12 16:05 G 33207439.06 33207439.17 33207439.27 0.1614 0.0641

Saturn 86206-10-14 07:27 G 33207440.67 33207440.81 33207440.94 0.0262 0.0018

Saturn 86207-01-10 17:32 G 33207529.11 33207529.23 33207529.36 0.0262 0.0088

Saturn 86207-04-09 04:05 G 33207617.58 33207617.67 33207617.76 0.0261 0.0192

Mars 86207-08-21 07:41 G 33207751.69 33207751.82 33207751.96 0.1927 0.1122

Venus 86209-06-06 17:03 G 33208407.14 33208407.21 33208407.29 0.3626 0.2539

Jupiter 86211-04-05 00:15 G 33209074.39 33209074.51 33209074.64 0.0515 0.0359

Earth 86214-03-01 06:29 G 33210135.62 33210135.77 33210135.91 0.2707 0.0171

Moon 86214-03-01 06:44 G 33210135.63 33210135.78 33210135.93 0.2701 0.0168 *

Mars 86214-03-30 01:12 G 33210164.47 33210164.55 33210164.63 0.1602 0.1200

Mars 86216-03-04 03:22 G 33210869.52 33210869.64 33210869.75 0.1611 0.0269

Moon 86216-08-31 17:03 G 33211050.11 33211050.21 33211050.32 0.2619 0.1133

Earth 86216-08-31 17:03 G 33211050.11 33211050.21 33211050.32 0.2625 0.1110 *

Jupiter 86216-11-24 01:12 G 33211134.43 33211134.55 33211134.67 0.0511 0.0196

Uranus 86217-01-14 11:03 G 33211185.94 33211185.96 33211185.99 0.0134 0.0133

Jupiter 86217-02-21 06:58 G 33211223.76 33211223.79 33211223.83 0.0508 0.0486

Uranus 86217-04-12 17:32 G 33211274.13 33211274.23 33211274.35 0.0134 0.0107

Uranus 86217-07-10 00:15 G 33211362.37 33211362.51 33211362.66 0.0134 0.0082

Uranus 86217-10-06 06:44 G 33211450.62 33211450.78 33211450.95 0.0134 0.0057

Uranus 86218-01-02 13:12 G 33211538.88 33211539.05 33211539.23 0.0134 0.0032

Uranus 86218-03-31 19:41 G 33211627.14 33211627.32 33211627.51 0.0134 0.0007

Uranus 86218-06-28 02:10 G 33211715.41 33211715.59 33211715.77 0.0134 0.0019

Uranus 86218-09-24 08:24 G 33211803.68 33211803.85 33211804.03 0.0134 0.0043

Venus 86218-12-17 22:05 G 33211888.27 33211888.42 33211888.57 0.3747 0.0242

Uranus 86218-12-21 14:53 G 33211891.96 33211892.12 33211892.28 0.0134 0.0068

Uranus 86219-03-19 20:53 G 33211980.25 33211980.37 33211980.51 0.0134 0.0093

Uranus 86219-06-16 03:08 G 33212068.55 33212068.63 33212068.73 0.0134 0.0117

Saturn 86221-11-10 06:15 G 33212946.59 33212946.76 33212946.94 0.0299 0.0089

Saturn 86222-02-07 06:44 G 33213035.61 33213035.78 33213035.94 0.0299 0.0119

Jupiter 86223-04-22 06:44 G 33213474.67 33213474.78 33213474.89 0.0518 0.0391

Mars 86223-08-20 12:58 G 33213595.01 33213595.04 33213595.07 0.1600 0.1539

Earth 86223-08-25 14:10 G 33213600.09 33213600.09 33213600.10 0.2627 0.2612

Moon 86223-08-25 14:53 G 33213600.11 33213600.12 33213600.14 0.2629 0.2596

Pluto 86224-07-10 04:34 G 33213919.62 33213919.69 33213919.80 0.0062 0.0053

Pluto 86224-10-06 06:00 G 33214007.62 33214007.75 33214007.88 0.0062 0.0042

Pluto 86225-01-02 06:44 G 33214095.64 33214095.78 33214095.94 0.0062 0.0032

Pluto 86225-03-31 07:41 G 33214183.67 33214183.82 33214184.00 0.0062 0.0022

Pluto 86225-06-27 08:53 G 33214271.70 33214271.87 33214272.05 0.0062 0.0011

Mars 86225-07-25 14:39 G 33214299.99 33214300.11 33214300.23 0.1609 0.0104

Pluto 86225-09-23 10:05 G 33214359.74 33214359.92 33214360.09 0.0062 0.0001

Pluto 86225-12-20 11:03 G 33214447.79 33214447.96 33214448.13 0.0062 0.0010

Pluto 86226-03-18 11:46 G 33214535.84 33214535.99 33214536.17 0.0062 0.0021

Pluto 86226-06-14 12:44 G 33214623.89 33214624.03 33214624.19 0.0062 0.0032

Pluto 86226-09-10 13:41 G 33214711.96 33214712.07 33214712.21 0.0062 0.0042

Pluto 86226-12-07 14:53 G 33214800.04 33214800.12 33214800.22 0.0062 0.0053

Moon 86227-03-04 09:08 G 33214886.79 33214886.88 33214886.97 0.2701 0.2093

Earth 86227-03-04 09:51 G 33214886.83 33214886.91 33214886.99 0.2708 0.2199 *

Mars 86227-06-30 17:46 G 33215005.18 33215005.24 33215005.29 0.1620 0.1434

Mars 86228-05-09 21:51 G 33215319.30 33215319.41 33215319.52 0.1919 0.1392

Jupiter 86228-09-12 05:03 G 33215444.62 33215444.71 33215444.79 0.0511 0.0373

Jupiter 86228-12-10 10:34 G 33215533.84 33215533.94 33215534.05 0.0508 0.0305

Moon 86229-09-03 11:17 G 33215800.93 33215800.97 33215801.02 0.2620 0.2362

Earth 86229-09-03 12:00 G 33215800.97 33215801.00 33215801.03 0.2625 0.2493 *

Mars 86234-12-16 02:10 G 33217730.47 33217730.59 33217730.70 0.1606 0.0460

Jupiter 86235-02-08 04:34 G 33217784.53 33217784.69 33217784.86 0.0517 0.0155

Saturn 86235-09-07 13:41 G 33217996.04 33217996.07 33217996.11 0.0263 0.0251

Saturn 86235-12-05 00:00 G 33218084.39 33218084.50 33218084.61 0.0263 0.0149

Saturn 86236-03-02 10:05 G 33218172.79 33218172.92 33218173.05 0.0263 0.0046

Saturn 86236-05-29 20:24 G 33218261.22 33218261.35 33218261.48 0.0262 0.0058

Saturn 86236-08-26 06:44 G 33218349.67 33218349.78 33218349.89 0.0262 0.0162

Earth 86236-08-27 08:39 G 33218350.76 33218350.86 33218350.96 0.2626 0.1312

Moon 86236-08-27 09:22 G 33218350.79 33218350.89 33218351.00 0.2626 0.1162 *

Mars 86236-11-20 04:48 G 33218435.61 33218435.70 33218435.79 0.1617 0.1051

Mars 86237-09-29 15:51 G 33218748.99 33218749.16 33218749.32 0.1923 0.0214

Jupiter 86240-09-28 14:39 G 33219843.98 33219844.11 33219844.24 0.0509 0.0133

Mars 86244-05-07 13:41 G 33221160.97 33221161.07 33221161.17 0.1604 0.0814

Mars 86246-04-12 15:51 G 33221866.06 33221866.16 33221866.27 0.1614 0.0674

Jupiter 86246-11-27 01:41 G 33222094.39 33222094.57 33222094.74 0.0516 0.0098

Mars 86247-02-19 08:39 G 33222178.72 33222178.86 33222179.00 0.1927 0.1035

Earth 86247-02-27 08:53 G 33222186.78 33222186.87 33222186.96 0.2707 0.2157

Moon 86247-02-27 10:05 G 33222186.83 33222186.92 33222187.01 0.2702 0.2109 *

Venus 86249-05-29 16:34 G 33223009.15 33223009.19 33223009.22 0.3626 0.3346

Earth 86249-08-30 03:22 G 33223101.52 33223101.64 33223101.76 0.2626 0.0025

Moon 86249-08-30 03:51 G 33223101.54 33223101.66 33223101.78 0.2620 0.0051 *

Saturn 86251-03-30 06:29 G 33223678.61 33223678.77 33223678.93 0.0299 0.0137

Saturn 86251-06-27 06:44 G 33223767.61 33223767.78 33223767.96 0.0300 0.0072

Saturn 86251-09-24 06:44 G 33223856.72 33223856.78 33223856.85 0.0300 0.0277

Jupiter 86252-07-17 18:58 G 33224154.15 33224154.29 33224154.42 0.0510 0.0040

Mars 86253-09-28 01:12 G 33224591.47 33224591.55 33224591.63 0.1602 0.1163

Venus 86254-12-13 07:41 G 33225032.73 33225032.82 33225032.92 0.3626 0.1137

Mars 86255-09-03 03:22 G 33225296.52 33225296.64 33225296.75 0.1611 0.0305

Neptune 86258-06-20 10:05 G 33226317.86 33226317.92 33226318.03 0.0090 0.0080

Jupiter 86258-09-14 22:34 G 33226404.31 33226404.44 33226404.57 0.0515 0.0349

Neptune 86258-09-16 13:41 G 33226405.96 33226406.07 33226406.20 0.0090 0.0069

Neptune 86258-12-13 17:17 G 33226494.08 33226494.22 33226494.36 0.0090 0.0058

Uranus 86259-01-17 07:27 G 33226528.81 33226528.81 33226528.83 0.0144 0.0143

Neptune 86259-03-11 20:10 G 33226582.20 33226582.34 33226582.51 0.0090 0.0048

Uranus 86259-04-15 11:17 G 33226616.91 33226616.97 33226617.05 0.0144 0.0121

Neptune 86259-06-07 23:17 G 33226670.32 33226670.47 33226670.65 0.0090 0.0038

Uranus 86259-07-12 15:08 G 33226705.04 33226705.13 33226705.24 0.0144 0.0099

Neptune 86259-09-04 02:53 G 33226758.45 33226758.62 33226758.80 0.0090 0.0027

Uranus 86259-10-08 19:12 G 33226793.18 33226793.30 33226793.41 0.0144 0.0076

Neptune 86259-12-01 06:00 G 33226846.57 33226846.75 33226846.93 0.0090 0.0016

Uranus 86260-01-04 23:03 G 33226881.33 33226881.46 33226881.59 0.0144 0.0054

Neptune 86260-02-27 09:22 G 33226934.71 33226934.89 33226935.07 0.0090 0.0006

Moon 86260-03-01 12:29 G 33226937.88 33226938.02 33226938.17 0.2700 0.0356

Earth 86260-03-01 12:44 G 33226937.88 33226938.03 33226938.17 0.2707 0.0297 *

Uranus 86260-04-02 02:53 G 33226969.49 33226969.62 33226969.76 0.0144 0.0031

Neptune 86260-05-25 12:29 G 33227022.84 33227023.02 33227023.20 0.0090 0.0004

Venus 86260-06-27 23:03 G 33227056.36 33227056.46 33227056.56 0.3626 0.1111

Uranus 86260-06-29 06:44 G 33227057.65 33227057.78 33227057.92 0.0144 0.0009

Neptune 86260-08-21 15:36 G 33227110.97 33227111.15 33227111.33 0.0090 0.0015

Uranus 86260-09-25 10:48 G 33227145.81 33227145.95 33227146.08 0.0144 0.0015

Neptune 86260-11-17 18:44 G 33227199.11 33227199.28 33227199.46 0.0090 0.0025

Uranus 86260-12-22 14:39 G 33227233.98 33227234.11 33227234.24 0.0144 0.0038

Neptune 86261-02-13 21:51 G 33227287.25 33227287.41 33227287.58 0.0090 0.0035

Uranus 86261-03-20 18:44 G 33227322.15 33227322.28 33227322.40 0.0144 0.0061

Neptune 86261-05-13 00:44 G 33227375.39 33227375.53 33227375.70 0.0090 0.0046

Uranus 86261-06-16 22:34 G 33227410.33 33227410.44 33227410.56 0.0144 0.0084

Neptune 86261-08-09 03:51 G 33227463.53 33227463.66 33227463.81 0.0090 0.0056

Uranus 86261-09-13 02:24 G 33227498.52 33227498.60 33227498.70 0.0144 0.0108

Neptune 86261-11-05 06:58 G 33227551.68 33227551.79 33227551.92 0.0090 0.0066

Uranus 86261-12-10 06:29 G 33227586.72 33227586.77 33227586.83 0.0144 0.0131

Neptune 86262-02-01 10:05 G 33227639.84 33227639.92 33227640.03 0.0090 0.0076

Neptune 86262-04-30 12:58 G 33227728.01 33227728.04 33227728.11 0.0090 0.0086

Moon 86262-09-01 21:51 G 33227852.31 33227852.41 33227852.51 0.2619 0.1367

Earth 86262-09-01 22:05 G 33227852.32 33227852.42 33227852.52 0.2625 0.1381 *

Mars 86263-02-18 12:58 G 33228022.00 33228022.04 33228022.07 0.1600 0.1509

Jupiter 86264-05-05 23:17 G 33228464.35 33228464.47 33228464.59 0.0511 0.0201

Jupiter 86264-08-03 05:03 G 33228553.67 33228553.71 33228553.75 0.0508 0.0481

Mars 86265-01-23 14:39 G 33228726.99 33228727.11 33228727.23 0.1609 0.0066

Saturn 86265-04-23 03:08 G 33228816.53 33228816.63 33228816.73 0.0262 0.0174

Saturn 86265-07-20 13:27 G 33228904.93 33228905.06 33228905.19 0.0262 0.0071

Saturn 86265-10-16 23:32 G 33228993.35 33228993.48 33228993.62 0.0262 0.0034

Venus 86266-01-11 14:39 G 33229080.07 33229080.11 33229080.14 0.3626 0.3382

Saturn 86266-01-13 09:51 G 33229081.80 33229081.91 33229082.03 0.0262 0.0137

Saturn 86266-04-11 20:24 G 33229170.30 33229170.35 33229170.40 0.0261 0.0241

Mars 86266-12-29 17:46 G 33229432.19 33229432.24 33229432.28 0.1620 0.1472

Mars 86267-11-08 22:34 G 33229746.34 33229746.44 33229746.55 0.1918 0.1466

Earth 86269-08-25 19:12 G 33230402.25 33230402.30 33230402.35 0.2626 0.2355

Moon 86269-08-25 19:56 G 33230402.27 33230402.33 33230402.39 0.2629 0.2202 *

Jupiter 86270-10-02 03:51 G 33230804.55 33230804.66 33230804.78 0.0517 0.0382

Moon 86273-03-04 15:08 G 33231689.08 33231689.13 33231689.18 0.2702 0.2527

Earth 86273-03-04 15:51 G 33231689.13 33231689.16 33231689.19 0.2708 0.2631 *

Mars 86274-06-16 01:56 G 33232157.47 33232157.58 33232157.70 0.1606 0.0432

Venus 86275-07-25 00:00 G 33232561.38 33232561.50 33232561.62 0.3747 0.2367

Jupiter 86276-02-23 03:36 G 33232774.57 33232774.65 33232774.75 0.0512 0.0366

Mars 86276-05-21 04:48 G 33232862.61 33232862.70 33232862.78 0.1617 0.1085

Jupiter 86276-05-22 09:22 G 33232863.79 33232863.89 33232864.00 0.0509 0.0315

Mars 86277-03-30 16:20 G 33233176.02 33233176.18 33233176.34 0.1923 0.0278

Saturn 86280-08-16 03:51 G 33234410.53 33234410.66 33234410.79 0.0299 0.0204

Saturn 86280-11-13 04:20 G 33234499.50 33234499.68 33234499.86 0.0299 0.0005

Saturn 86281-02-10 04:20 G 33234588.56 33234588.68 33234588.81 0.0299 0.0211

Jupiter 86282-07-21 01:56 G 33235114.42 33235114.58 33235114.75 0.0517 0.0148

Earth 86282-08-28 13:41 G 33235152.96 33235153.07 33235153.18 0.2626 0.1044

Moon 86282-08-28 14:24 G 33235152.99 33235153.10 33235153.21 0.2624 0.1019 *

Mars 86283-11-06 13:41 G 33235587.97 33235588.07 33235588.17 0.1604 0.0781

Mars 86285-10-11 15:51 G 33236293.05 33236293.16 33236293.27 0.1614 0.0704

Mars 86286-08-20 09:36 G 33236605.76 33236605.90 33236606.04 0.1928 0.0946

Jupiter 86288-03-10 13:12 G 33237173.92 33237174.05 33237174.18 0.0509 0.0136

Earth 86293-02-27 15:08 G 33238989.02 33238989.13 33238989.24 0.2707 0.1698

Moon 86293-02-27 16:05 G 33238989.04 33238989.17 33238989.29 0.2702 0.1483 *

Mars 86293-03-29 01:12 G 33239018.47 33239018.55 33239018.63 0.1602 0.1129

Jupiter 86294-05-08 23:46 G 33239424.31 33239424.49 33239424.66 0.0517 0.0095

Saturn 86294-09-10 06:00 G 33239548.67 33239548.75 33239548.84 0.0263 0.0203

Saturn 86294-12-07 16:05 G 33239637.05 33239637.17 33239637.30 0.0263 0.0101

Mars 86295-03-04 03:08 G 33239723.52 33239723.63 33239723.75 0.1611 0.0341

Saturn 86295-03-06 02:24 G 33239725.47 33239725.60 33239725.74 0.0263 0.0006

Saturn 86295-06-02 12:44 G 33239813.91 33239814.03 33239814.16 0.0262 0.0108

Saturn 86295-08-29 23:17 G 33239902.39 33239902.47 33239902.55 0.0262 0.0213

Earth 86295-08-31 08:24 G 33239903.73 33239903.85 33239903.96 0.2626 0.0300

Moon 86295-08-31 08:39 G 33239903.75 33239903.86 33239903.98 0.2620 0.0396 *

Jupiter 86299-12-28 17:17 G 33241484.09 33241484.22 33241484.35 0.0510 0.0036

Uranus 86301-02-04 17:17 G 33241887.18 33241887.22 33241887.29 0.0135 0.0128

Uranus 86301-05-04 00:15 G 33241975.39 33241975.51 33241975.63 0.0135 0.0102

Uranus 86301-07-31 06:44 G 33242063.64 33242063.78 33242063.94 0.0135 0.0077

Uranus 86301-10-27 13:12 G 33242151.89 33242152.05 33242152.23 0.0134 0.0051

Uranus 86302-01-23 19:41 G 33242240.15 33242240.32 33242240.51 0.0134 0.0027

Uranus 86302-04-22 02:24 G 33242328.41 33242328.60 33242328.78 0.0134 0.0002

Uranus 86302-07-19 08:39 G 33242416.69 33242416.86 33242417.04 0.0134 0.0024

Mars 86302-08-20 12:58 G 33242448.99 33242449.04 33242449.08 0.1600 0.1472

Uranus 86302-10-15 15:08 G 33242504.96 33242505.13 33242505.30 0.0134 0.0049

Uranus 86303-01-11 21:22 G 33242593.24 33242593.39 33242593.55 0.0134 0.0073

Uranus 86303-04-10 03:36 G 33242681.53 33242681.65 33242681.78 0.0134 0.0098

Uranus 86303-07-07 09:36 G 33242769.84 33242769.90 33242769.99 0.0134 0.0123

Mars 86304-07-25 14:39 G 33243153.99 33243154.11 33243154.23 0.1609 0.0039

Venus 86306-01-04 13:56 G 33243682.00 33243682.08 33243682.15 0.3626 0.2525

Jupiter 86306-02-25 20:24 G 33243734.22 33243734.35 33243734.48 0.0515 0.0347

Moon 86306-03-03 18:29 G 33243740.13 33243740.27 33243740.42 0.2700 0.0629

Earth 86306-03-03 18:44 G 33243740.14 33243740.28 33243740.42 0.2707 0.0733 *

Mars 86306-06-30 17:46 G 33243859.20 33243859.24 33243859.28 0.1621 0.1507

Mars 86307-05-10 23:17 G 33244173.38 33244173.47 33244173.57 0.1918 0.1547

Moon 86308-09-03 02:39 G 33244654.52 33244654.61 33244654.71 0.2619 0.1579

Earth 86308-09-03 03:08 G 33244654.54 33244654.63 33244654.72 0.2625 0.1658 *

Saturn 86310-01-04 04:05 G 33245142.58 33245142.67 33245142.78 0.0299 0.0248

Saturn 86310-04-03 04:48 G 33245231.53 33245231.70 33245231.88 0.0299 0.0039

Saturn 86310-07-01 05:03 G 33245320.57 33245320.71 33245320.86 0.0300 0.0169

Venus 86311-07-21 05:03 G 33245705.61 33245705.71 33245705.82 0.3626 0.0333

Jupiter 86311-10-17 21:22 G 33245794.27 33245794.39 33245794.51 0.0511 0.0208

Jupiter 86312-01-15 03:08 G 33245883.59 33245883.63 33245883.68 0.0508 0.0474

Mars 86313-12-16 01:56 G 33246584.47 33246584.58 33246584.70 0.1606 0.0395

Earth 86315-08-28 00:00 G 33247204.44 33247204.50 33247204.57 0.2626 0.2098

Moon 86315-08-28 00:44 G 33247204.46 33247204.53 33247204.60 0.2629 0.2068 *

Mars 86315-11-21 04:48 G 33247289.61 33247289.70 33247289.78 0.1617 0.1120

Pluto 86316-05-19 08:10 G 33247469.81 33247469.84 33247469.89 0.0082 0.0079

Pluto 86316-08-15 09:36 G 33247557.81 33247557.90 33247558.01 0.0082 0.0058

Mars 86316-09-29 17:17 G 33247603.06 33247603.22 33247603.38 0.1923 0.0365

Pluto 86316-11-11 11:17 G 33247645.84 33247645.97 33247646.10 0.0082 0.0037

Venus 86317-02-02 20:39 G 33247729.27 33247729.36 33247729.44 0.3626 0.1956

Pluto 86317-02-07 12:44 G 33247733.89 33247734.03 33247734.17 0.0082 0.0017

Pluto 86317-05-06 14:10 G 33247821.94 33247822.09 33247822.23 0.0082 0.0003

Pluto 86317-08-02 15:22 G 33247910.01 33247910.14 33247910.29 0.0082 0.0024

Pluto 86317-10-29 16:48 G 33247998.08 33247998.20 33247998.33 0.0081 0.0044

Pluto 86318-01-25 18:15 G 33248086.17 33248086.26 33248086.35 0.0081 0.0064

Jupiter 86318-03-15 01:56 G 33248134.47 33248134.58 33248134.70 0.0517 0.0386

Mars 86323-05-08 13:41 G 33250014.96 33250015.07 33250015.17 0.1604 0.0748

Jupiter 86323-08-06 01:41 G 33250104.48 33250104.57 33250104.66 0.0512 0.0374

Jupiter 86323-11-03 07:27 G 33250193.70 33250193.81 33250193.91 0.0509 0.0306

Saturn 86324-01-29 09:36 G 33250280.84 33250280.90 33250280.97 0.0263 0.0225

Saturn 86324-04-26 19:41 G 33250369.21 33250369.32 33250369.44 0.0262 0.0123

Saturn 86324-07-24 06:00 G 33250457.61 33250457.75 33250457.88 0.0262 0.0020

Saturn 86324-10-20 16:20 G 33250546.05 33250546.18 33250546.31 0.0262 0.0084

Saturn 86325-01-17 02:39 G 33250634.52 33250634.61 33250634.71 0.0262 0.0189

Mars 86325-04-12 15:51 G 33250720.06 33250720.16 33250720.27 0.1614 0.0742

Mars 86326-02-19 10:05 G 33251032.78 33251032.92 33251033.07 0.1927 0.0876

Venus 86326-08-15 17:03 G 33251210.12 33251210.21 33251210.30 0.3747 0.2982

Earth 86328-08-29 18:44 G 33251955.17 33251955.28 33251955.39 0.2626 0.0787

Moon 86328-08-29 19:12 G 33251955.19 33251955.30 33251955.42 0.2622 0.0634 *

Jupiter 86329-12-31 23:03 G 33252444.29 33252444.46 33252444.63 0.0517 0.0134

Mars 86332-09-28 01:12 G 33253445.46 33253445.55 33253445.63 0.1602 0.1098

Mars 86334-09-03 03:08 G 33254150.52 33254150.63 33254150.75 0.1611 0.0371

Jupiter 86335-08-22 11:46 G 33254503.86 33254503.99 33254504.12 0.0510 0.0140

Earth 86339-03-01 21:22 G 33255791.26 33255791.39 33255791.52 0.2707 0.1234

Moon 86339-03-01 21:51 G 33255791.28 33255791.41 33255791.55 0.2701 0.1243 *

Saturn 86339-08-21 03:22 G 33255963.47 33255963.64 33255963.81 0.0299 0.0097

Neptune 86339-09-25 16:48 G 33255999.18 33255999.20 33255999.24 0.0088 0.0086

Saturn 86339-11-18 03:36 G 33256052.49 33256052.65 33256052.82 0.0299 0.0111

Neptune 86339-12-22 18:15 G 33256087.21 33256087.26 33256087.33 0.0088 0.0079

Neptune 86340-03-19 19:56 G 33256175.25 33256175.33 33256175.41 0.0088 0.0071

Neptune 86340-06-15 21:22 G 33256263.30 33256263.39 33256263.48 0.0088 0.0064

Neptune 86340-09-11 22:34 G 33256351.34 33256351.44 33256351.55 0.0088 0.0057

Neptune 86340-12-09 00:00 G 33256439.39 33256439.50 33256439.62 0.0088 0.0050

Neptune 86341-03-07 01:27 G 33256527.45 33256527.56 33256527.69 0.0088 0.0043

Neptune 86341-06-03 02:53 G 33256615.50 33256615.62 33256615.75 0.0088 0.0035

Neptune 86341-08-30 04:20 G 33256703.55 33256703.68 33256703.82 0.0088 0.0028

Earth 86341-09-01 13:12 G 33256705.94 33256706.05 33256706.17 0.2626 0.0568

Moon 86341-09-01 13:41 G 33256705.95 33256706.07 33256706.18 0.2620 0.0552 *

Jupiter 86341-10-19 20:39 G 33256754.19 33256754.36 33256754.54 0.0516 0.0107

Neptune 86341-11-26 05:46 G 33256791.61 33256791.74 33256791.88 0.0088 0.0021

Mars 86342-02-18 12:44 G 33256875.99 33256876.03 33256876.08 0.1600 0.1439

Neptune 86342-02-22 07:12 G 33256879.67 33256879.80 33256879.94 0.0088 0.0014

Neptune 86342-05-21 08:39 G 33256967.73 33256967.86 33256968.00 0.0088 0.0007

Neptune 86342-08-17 10:05 G 33257055.79 33257055.92 33257056.06 0.0088 0.0003

Neptune 86342-11-13 11:46 G 33257143.85 33257143.99 33257144.12 0.0088 0.0009

Uranus 86343-02-07 14:24 G 33257230.08 33257230.10 33257230.14 0.0144 0.0139

Neptune 86343-02-09 12:58 G 33257231.91 33257232.04 33257232.18 0.0088 0.0016

Uranus 86343-05-06 18:15 G 33257318.19 33257318.26 33257318.34 0.0144 0.0116

Neptune 86343-05-08 14:24 G 33257319.97 33257320.10 33257320.24 0.0088 0.0024

Uranus 86343-08-02 22:05 G 33257406.32 33257406.42 33257406.53 0.0144 0.0094

Neptune 86343-08-04 16:05 G 33257408.04 33257408.17 33257408.30 0.0088 0.0031

Uranus 86343-10-30 01:56 G 33257494.47 33257494.58 33257494.70 0.0144 0.0072

Neptune 86343-10-31 17:17 G 33257496.11 33257496.22 33257496.36 0.0088 0.0039

Mars 86344-01-24 14:24 G 33257580.99 33257581.10 33257581.22 0.1609 0.0052

Uranus 86344-01-26 05:46 G 33257582.62 33257582.74 33257582.87 0.0144 0.0050

Neptune 86344-01-27 18:58 G 33257584.17 33257584.29 33257584.41 0.0088 0.0046

Uranus 86344-04-23 09:51 G 33257670.77 33257670.91 33257671.04 0.0144 0.0027

Neptune 86344-04-24 20:10 G 33257672.24 33257672.34 33257672.47 0.0088 0.0054

Uranus 86344-07-20 13:41 G 33257758.93 33257759.07 33257759.21 0.0144 0.0004

Neptune 86344-07-21 21:51 G 33257760.32 33257760.41 33257760.52 0.0088 0.0061

Uranus 86344-10-16 17:32 G 33257847.10 33257847.23 33257847.37 0.0144 0.0020

Neptune 86344-10-17 23:17 G 33257848.39 33257848.47 33257848.57 0.0088 0.0069

Uranus 86345-01-12 21:22 G 33257935.27 33257935.39 33257935.53 0.0144 0.0043

Neptune 86345-01-14 00:44 G 33257936.48 33257936.53 33257936.61 0.0088 0.0076

Uranus 86345-04-11 01:27 G 33258023.44 33258023.56 33258023.69 0.0144 0.0065

Neptune 86345-04-12 02:10 G 33258024.57 33258024.59 33258024.65 0.0088 0.0084

Uranus 86345-07-08 05:32 G 33258111.62 33258111.73 33258111.84 0.0144 0.0088

Uranus 86345-10-04 09:36 G 33258199.81 33258199.90 33258199.98 0.0144 0.0112

Mars 86345-12-29 17:32 G 33258286.20 33258286.23 33258286.27 0.1620 0.1537

Uranus 86345-12-31 13:27 G 33258288.02 33258288.06 33258288.11 0.0144 0.0135

Mars 86346-11-09 00:00 G 33258600.42 33258600.50 33258600.59 0.1919 0.1619

Jupiter 86347-06-10 15:36 G 33258814.02 33258814.15 33258814.28 0.0510 0.0036

Moon 86352-03-04 00:44 G 33260542.40 33260542.53 33260542.66 0.2700 0.1245

Earth 86352-03-04 00:58 G 33260542.41 33260542.54 33260542.67 0.2707 0.1181 *

Mars 86353-06-16 01:56 G 33261011.47 33261011.58 33261011.70 0.1606 0.0360

Saturn 86353-06-17 12:29 G 33261012.99 33261013.02 33261013.05 0.0264 0.0255

Jupiter 86353-08-07 18:00 G 33261064.12 33261064.25 33261064.38 0.0516 0.0352

Saturn 86353-09-13 22:34 G 33261101.34 33261101.44 33261101.55 0.0263 0.0152

Saturn 86353-12-11 08:53 G 33261189.74 33261189.87 33261190.00 0.0263 0.0049

Saturn 86354-03-09 19:12 G 33261278.16 33261278.30 33261278.43 0.0263 0.0056

Saturn 86354-06-06 05:32 G 33261366.62 33261366.73 33261366.84 0.0262 0.0160

Moon 86354-09-04 07:41 G 33261456.74 33261456.82 33261456.90 0.2619 0.1922

Earth 86354-09-04 08:10 G 33261456.76 33261456.84 33261456.91 0.2625 0.1933 *

Mars 86355-05-22 04:34 G 33261716.61 33261716.69 33261716.78 0.1617 0.1156

Mars 86356-03-30 18:15 G 33262030.10 33262030.26 33262030.41 0.1923 0.0454

Jupiter 86359-03-29 19:41 G 33263124.20 33263124.32 33263124.44 0.0510 0.0208

Jupiter 86359-06-27 01:27 G 33263213.52 33263213.56 33263213.61 0.0508 0.0471

Earth 86361-08-28 05:03 G 33264006.63 33264006.71 33264006.79 0.2626 0.1837

Moon 86361-08-28 05:46 G 33264006.65 33264006.74 33264006.83 0.2627 0.1707 *

Venus 86362-08-11 11:17 G 33264354.88 33264354.97 33264355.06 0.3625 0.1698

Mars 86362-11-06 13:27 G 33264441.96 33264442.06 33264442.17 0.1604 0.0714

Mars 86364-10-11 15:51 G 33265147.06 33265147.16 33265147.27 0.1614 0.0777

Mars 86365-08-20 11:03 G 33265459.81 33265459.96 33265460.11 0.1927 0.0788

Jupiter 86365-08-24 23:32 G 33265464.36 33265464.48 33265464.60 0.0517 0.0382

Venus 86368-02-25 02:24 G 33266378.50 33266378.60 33266378.71 0.3625 0.0557

Saturn 86369-01-07 04:05 G 33266695.51 33266695.67 33266695.83 0.0299 0.0139

Saturn 86369-04-06 04:34 G 33266784.52 33266784.69 33266784.86 0.0299 0.0070

Saturn 86369-07-04 04:20 G 33266873.62 33266873.68 33266873.76 0.0300 0.0275

Jupiter 86371-01-15 23:46 G 33267434.40 33267434.49 33267434.57 0.0512 0.0382

Jupiter 86371-04-15 05:17 G 33267523.62 33267523.72 33267523.83 0.0509 0.0297

Mars 86372-03-29 01:12 G 33267872.46 33267872.55 33267872.63 0.1602 0.1061

Venus 86373-09-09 18:00 G 33268402.18 33268402.25 33268402.31 0.3626 0.2794

Mars 86374-03-04 03:08 G 33268577.52 33268577.63 33268577.75 0.1611 0.0404

Earth 86374-08-30 23:32 G 33268757.37 33268757.48 33268757.60 0.2626 0.0518

Moon 86374-08-31 00:15 G 33268757.40 33268757.51 33268757.63 0.2622 0.0493 *

Jupiter 86377-06-12 20:39 G 33269774.19 33269774.36 33269774.53 0.0517 0.0134

Mars 86381-08-19 12:44 G 33271302.98 33271303.03 33271303.08 0.1600 0.1406

Saturn 86383-02-01 02:24 G 33271833.50 33271833.60 33271833.70 0.0263 0.0172

Jupiter 86383-02-01 09:36 G 33271833.77 33271833.90 33271834.03 0.0510 0.0128

Venus 86383-03-22 19:12 G 33271883.14 33271883.30 33271883.45 0.3747 0.0338

Saturn 86383-04-30 12:29 G 33271921.89 33271922.02 33271922.15 0.0262 0.0070

Mars 86383-07-25 14:39 G 33272007.99 33272008.11 33272008.22 0.1609 0.0065

Saturn 86383-07-27 22:48 G 33272010.32 33272010.45 33272010.59 0.0262 0.0034

Saturn 86383-10-24 09:08 G 33272098.77 33272098.88 33272099.00 0.0262 0.0139

Saturn 86384-01-20 19:27 G 33272187.27 33272187.31 33272187.37 0.0262 0.0245

Uranus 86385-02-24 23:32 G 33272588.43 33272588.48 33272588.57 0.0135 0.0124

Earth 86385-03-02 03:22 G 33272593.51 33272593.64 33272593.78 0.2707 0.0785

Moon 86385-03-02 03:51 G 33272593.52 33272593.66 33272593.80 0.2700 0.0656 *

Uranus 86385-05-24 06:15 G 33272676.65 33272676.76 33272676.90 0.0135 0.0098

Mars 86385-06-29 17:46 G 33272713.21 33272713.24 33272713.26 0.1620 0.1576

Uranus 86385-08-20 13:12 G 33272764.89 33272765.05 33272765.20 0.0135 0.0072

Uranus 86385-11-16 19:41 G 33272853.15 33272853.32 33272853.50 0.0135 0.0047

Uranus 86386-02-13 02:10 G 33272941.41 33272941.59 33272941.77 0.0135 0.0022

Mars 86386-05-10 00:58 G 33273027.46 33273027.54 33273027.61 0.1918 0.1697

Uranus 86386-05-12 08:39 G 33273029.68 33273029.86 33273030.05 0.0135 0.0004

Uranus 86386-08-08 15:08 G 33273117.95 33273118.13 33273118.31 0.0134 0.0029

Uranus 86386-11-04 21:22 G 33273206.23 33273206.39 33273206.56 0.0134 0.0054

Uranus 86387-02-01 03:36 G 33273294.51 33273294.65 33273294.81 0.0134 0.0079

Uranus 86387-04-30 10:05 G 33273382.81 33273382.92 33273383.04 0.0134 0.0103

Uranus 86387-07-27 16:20 G 33273471.13 33273471.18 33273471.24 0.0134 0.0127

Moon 86387-09-02 18:15 G 33273508.15 33273508.26 33273508.37 0.2619 0.0900

Earth 86387-09-02 18:15 G 33273508.15 33273508.26 33273508.37 0.2625 0.0831 *

Jupiter 86389-03-31 17:32 G 33274084.06 33274084.23 33274084.40 0.0516 0.0123

Mars 86392-12-15 01:56 G 33275438.46 33275438.58 33275438.69 0.1606 0.0326

Mars 86394-11-20 04:48 G 33276143.62 33276143.70 33276143.78 0.1617 0.1190

Jupiter 86394-11-20 13:56 G 33276143.95 33276144.08 33276144.21 0.0510 0.0038

Mars 86395-09-29 18:29 G 33276457.11 33276457.27 33276457.43 0.1923 0.0511

Moon 86398-03-05 06:44 G 33277344.65 33277344.78 33277344.90 0.2701 0.1482

Earth 86398-03-05 06:58 G 33277344.68 33277344.79 33277344.91 0.2707 0.1626 *

Saturn 86398-05-27 02:53 G 33277427.49 33277427.62 33277427.76 0.0299 0.0194

Saturn 86398-08-24 03:36 G 33277516.47 33277516.65 33277516.83 0.0299 0.0016

Saturn 86398-11-21 03:36 G 33277605.53 33277605.65 33277605.77 0.0299 0.0221

Moon 86400-09-04 12:44 G 33278258.96 33278259.03 33278259.10 0.2619 0.2094

Earth 86400-09-04 12:58 G 33278258.98 33278259.04 33278259.11 0.2625 0.2212 *

Jupiter 86401-01-17 14:53 G 33278394.00 33278394.12 33278394.24 0.0515 0.0367

Mars 86402-05-07 13:27 G 33278868.96 33278869.06 33278869.17 0.1604 0.0678

Mars 86404-04-11 15:51 G 33279574.06 33279574.16 33279574.26 0.1614 0.0807

Mars 86405-02-18 12:00 G 33279886.85 33279887.00 33279887.16 0.1928 0.0700

Jupiter 86406-09-08 18:00 G 33280454.13 33280454.25 33280454.37 0.0510 0.0209

Jupiter 86406-12-06 23:46 G 33280543.44 33280543.49 33280543.54 0.0508 0.0469

Earth 86407-08-29 10:05 G 33280808.82 33280808.92 33280809.01 0.2626 0.1580

Moon 86407-08-29 10:48 G 33280808.85 33280808.95 33280809.04 0.2626 0.1493 *

Mars 86411-09-28 00:58 G 33282299.46 33282299.54 33282299.63 0.1602 0.1029

Saturn 86412-06-20 05:17 G 33282565.64 33282565.72 33282565.81 0.0263 0.0202

Saturn 86412-09-16 15:22 G 33282654.02 33282654.14 33282654.27 0.0263 0.0099

Saturn 86412-12-14 01:41 G 33282742.43 33282742.57 33282742.71 0.0263 0.0005

Jupiter 86413-02-03 20:53 G 33282794.25 33282794.37 33282794.49 0.0518 0.0374

Saturn 86413-03-12 12:00 G 33282830.88 33282831.00 33282831.13 0.0263 0.0110

Saturn 86413-06-08 22:20 G 33282919.36 33282919.43 33282919.51 0.0262 0.0215

Venus 86413-09-01 17:17 G 33283004.17 33283004.22 33283004.27 0.3625 0.3072

Mars 86413-09-02 03:08 G 33283004.52 33283004.63 33283004.75 0.1611 0.0440

Moon 86418-02-28 06:58 G 33284644.76 33284644.79 33284644.82 0.2703 0.2635

Jupiter 86418-06-27 22:05 G 33284764.34 33284764.42 33284764.51 0.0511 0.0381

Jupiter 86418-09-25 03:51 G 33284853.55 33284853.66 33284853.76 0.0508 0.0297

Venus 86419-03-18 08:39 G 33285027.76 33285027.86 33285027.96 0.3625 0.0872

Earth 86420-08-31 04:34 G 33285559.57 33285559.69 33285559.80 0.2626 0.0252

Moon 86420-08-31 05:03 G 33285559.60 33285559.71 33285559.83 0.2622 0.0140 *

Mars 86421-02-17 12:44 G 33285729.97 33285730.03 33285730.09 0.1600 0.1370

Neptune 86422-12-20 06:00 G 33286400.70 33286400.75 33286400.83 0.0090 0.0084

Mars 86423-01-23 14:24 G 33286434.98 33286435.10 33286435.22 0.1609 0.0080

Neptune 86423-03-18 09:36 G 33286488.80 33286488.90 33286489.01 0.0090 0.0073

Neptune 86423-06-14 12:29 G 33286576.91 33286577.02 33286577.17 0.0090 0.0063

Neptune 86423-09-10 16:05 G 33286665.03 33286665.17 33286665.33 0.0090 0.0052

Neptune 86423-12-07 19:12 G 33286753.15 33286753.30 33286753.47 0.0090 0.0042

Neptune 86424-03-04 22:34 G 33286841.27 33286841.44 33286841.62 0.0090 0.0031

Neptune 86424-06-01 01:56 G 33286929.40 33286929.58 33286929.76 0.0090 0.0020

Neptune 86424-08-28 05:03 G 33287017.53 33287017.71 33287017.90 0.0090 0.0010

Venus 86424-10-01 00:00 G 33287051.40 33287051.50 33287051.59 0.3625 0.1377

Jupiter 86424-11-22 18:00 G 33287104.08 33287104.25 33287104.42 0.0517 0.0125

Neptune 86424-11-24 08:24 G 33287105.67 33287105.85 33287106.03 0.0090 0.0001

Mars 86424-12-28 17:46 G 33287140.23 33287140.24 33287140.25 0.1620 0.1611

Neptune 86425-02-20 11:32 G 33287193.80 33287193.98 33287194.16 0.0090 0.0011

Neptune 86425-05-19 14:39 G 33287281.94 33287282.11 33287282.29 0.0090 0.0021

Neptune 86425-08-15 17:32 G 33287370.08 33287370.23 33287370.42 0.0090 0.0032

Mars 86425-11-08 01:27 G 33287454.50 33287454.56 33287454.62 0.1919 0.1770

Neptune 86425-11-11 20:39 G 33287458.22 33287458.36 33287458.54 0.0090 0.0042

Neptune 86426-02-08 00:00 G 33287546.36 33287546.50 33287546.65 0.0090 0.0052

Neptune 86426-05-07 03:08 G 33287634.51 33287634.63 33287634.77 0.0090 0.0062

Neptune 86426-08-03 06:15 G 33287722.66 33287722.76 33287722.87 0.0090 0.0072

Neptune 86426-10-30 09:22 G 33287810.82 33287810.89 33287810.97 0.0090 0.0082

Uranus 86427-02-27 21:51 G 33287931.37 33287931.41 33287931.47 0.0143 0.0132

Uranus 86427-05-27 01:41 G 33288019.49 33288019.57 33288019.66 0.0144 0.0110

Uranus 86427-08-23 05:32 G 33288107.63 33288107.73 33288107.84 0.0144 0.0088

Saturn 86427-10-14 03:36 G 33288159.55 33288159.65 33288159.76 0.0299 0.0236

Uranus 86427-11-19 09:22 G 33288195.77 33288195.89 33288196.01 0.0144 0.0065

Saturn 86428-01-11 04:20 G 33288248.50 33288248.68 33288248.86 0.0299 0.0026

Uranus 86428-02-15 13:12 G 33288283.92 33288284.05 33288284.18 0.0144 0.0043

Saturn 86428-04-09 04:34 G 33288337.55 33288337.69 33288337.83 0.0299 0.0181

Uranus 86428-05-13 17:03 G 33288372.08 33288372.21 33288372.35 0.0144 0.0020

Uranus 86428-08-09 21:08 G 33288460.24 33288460.38 33288460.51 0.0144 0.0005

Uranus 86428-11-06 00:58 G 33288548.41 33288548.54 33288548.68 0.0144 0.0026

Uranus 86429-02-02 05:03 G 33288636.58 33288636.71 33288636.84 0.0144 0.0049

Uranus 86429-05-01 08:53 G 33288724.75 33288724.87 33288724.99 0.0144 0.0072

Uranus 86429-07-28 12:44 G 33288812.94 33288813.03 33288813.14 0.0144 0.0095

Uranus 86429-10-24 16:48 G 33288901.13 33288901.20 33288901.28 0.0144 0.0119

Uranus 86430-01-20 20:53 G 33288989.36 33288989.37 33288989.39 0.0144 0.0142

Jupiter 86430-07-14 07:27 G 33289163.69 33289163.81 33289163.94 0.0510 0.0121

Earth 86431-03-03 09:36 G 33289395.76 33289395.90 33289396.05 0.2707 0.0324

Moon 86431-03-03 10:05 G 33289395.77 33289395.92 33289396.06 0.2700 0.0337 *

Mars 86432-06-15 01:56 G 33289865.47 33289865.58 33289865.70 0.1606 0.0288

Moon 86433-09-02 23:03 G 33290310.36 33290310.46 33290310.57 0.2619 0.1036

Earth 86433-09-02 23:17 G 33290310.36 33290310.47 33290310.57 0.2625 0.1109 *

Mars 86434-05-21 04:34 G 33290570.62 33290570.69 33290570.77 0.1617 0.1225

Mars 86435-03-30 19:41 G 33290884.16 33290884.32 33290884.47 0.1923 0.0604

Jupiter 86436-09-10 15:08 G 33291413.96 33291414.13 33291414.30 0.0516 0.0124

Venus 86439-10-27 21:08 G 33292556.26 33292556.38 33292556.50 0.3747 0.2271

Earth 86440-08-26 20:24 G 33292860.35 33292860.35 33292860.35 0.2627 0.2622

Moon 86440-08-26 20:53 G 33292860.35 33292860.37 33292860.40 0.2631 0.2526 *

Mars 86441-11-05 13:27 G 33293295.95 33293296.06 33293296.17 0.1604 0.0645

Saturn 86441-11-07 09:08 G 33293297.81 33293297.88 33293297.95 0.0263 0.0221

Saturn 86442-02-03 19:12 G 33293386.18 33293386.30 33293386.42 0.0263 0.0119

Jupiter 86442-05-02 11:46 G 33293473.86 33293473.99 33293474.12 0.0510 0.0050

Saturn 86442-05-03 05:32 G 33293474.59 33293474.73 33293474.87 0.0262 0.0015

Saturn 86442-07-30 15:51 G 33293563.03 33293563.16 33293563.29 0.0262 0.0089

Saturn 86442-10-27 02:10 G 33293651.50 33293651.59 33293651.68 0.0262 0.0194

Mars 86443-10-11 15:51 G 33294001.06 33294001.16 33294001.26 0.1614 0.0845

Moon 86444-03-05 12:15 G 33294146.92 33294147.01 33294147.11 0.2702 0.2057

Earth 86444-03-05 12:58 G 33294146.95 33294147.04 33294147.13 0.2708 0.2069 *

Mars 86444-08-19 12:29 G 33294313.87 33294314.02 33294314.18 0.1927 0.0631

Moon 86446-09-05 17:32 G 33295061.20 33295061.23 33295061.27 0.2620 0.2476

Earth 86446-09-05 18:00 G 33295061.22 33295061.25 33295061.29 0.2625 0.2487 *

Jupiter 86448-06-29 11:46 G 33295723.87 33295723.99 33295724.11 0.0515 0.0383

Mars 86451-03-29 00:58 G 33296726.45 33296726.54 33296726.63 0.1602 0.0996

Mars 86453-03-03 03:08 G 33297431.52 33297431.63 33297431.74 0.1611 0.0470

Earth 86453-08-29 14:53 G 33297611.02 33297611.12 33297611.22 0.2626 0.1314

Moon 86453-08-29 15:36 G 33297611.05 33297611.15 33297611.26 0.2624 0.1227 *

Mars 86454-01-09 05:03 G 33297743.69 33297743.71 33297743.74 0.1931 0.1901

Jupiter 86454-02-18 16:05 G 33297784.05 33297784.17 33297784.29 0.0511 0.0216

Jupiter 86454-05-18 21:51 G 33297873.36 33297873.41 33297873.46 0.0508 0.0466

Saturn 86457-03-02 02:53 G 33298891.58 33298891.62 33298891.67 0.0298 0.0288

Saturn 86457-05-30 03:36 G 33298980.48 33298980.65 33298980.83 0.0299 0.0078

Saturn 86457-08-27 03:51 G 33299069.51 33299069.66 33299069.83 0.0299 0.0131

Jupiter 86460-07-16 17:32 G 33300124.11 33300124.23 33300124.36 0.0517 0.0359

Mars 86460-08-18 12:44 G 33300156.97 33300157.03 33300157.09 0.1600 0.1336

Mars 86462-07-24 14:24 G 33300861.98 33300862.10 33300862.22 0.1609 0.0106

Earth 86464-02-29 12:00 G 33301446.93 33301447.00 33301447.07 0.2706 0.2329

Moon 86464-02-29 12:58 G 33301446.95 33301447.04 33301447.13 0.2701 0.2172 *

Mars 86465-05-09 02:24 G 33301881.56 33301881.60 33301881.64 0.1919 0.1849

Jupiter 86465-12-07 20:24 G 33302094.27 33302094.35 33302094.43 0.0511 0.0384

Jupiter 86466-03-07 01:56 G 33302183.48 33302183.58 33302183.69 0.0509 0.0294

Earth 86466-09-01 09:22 G 33302361.78 33302361.89 33302362.01 0.2626 0.0077

Moon 86466-09-01 09:51 G 33302361.80 33302361.91 33302362.03 0.2621 0.0093 *

Uranus 86469-03-17 06:15 G 33303289.69 33303289.76 33303289.86 0.0135 0.0118

Uranus 86469-06-13 13:12 G 33303377.92 33303378.05 33303378.19 0.0135 0.0092

Uranus 86469-09-09 19:41 G 33303466.17 33303466.32 33303466.49 0.0135 0.0066

Uranus 86469-12-07 02:24 G 33303554.43 33303554.60 33303554.78 0.0135 0.0041

Uranus 86470-03-05 08:53 G 33303642.69 33303642.87 33303643.05 0.0135 0.0016

Venus 86470-04-08 14:39 G 33303677.03 33303677.11 33303677.19 0.3625 0.2253

Uranus 86470-06-01 15:22 G 33303730.96 33303731.14 33303731.33 0.0135 0.0010

Uranus 86470-08-28 21:51 G 33303819.23 33303819.41 33303819.59 0.0134 0.0035

Uranus 86470-11-25 04:05 G 33303907.51 33303907.67 33303907.84 0.0134 0.0060

Uranus 86471-02-21 10:20 G 33303995.80 33303995.93 33303996.08 0.0134 0.0085

Saturn 86471-03-27 11:46 G 33304029.96 33304029.99 33304030.04 0.0263 0.0252

Uranus 86471-05-20 16:48 G 33304084.10 33304084.20 33304084.31 0.0134 0.0109

Saturn 86471-06-23 22:05 G 33304118.31 33304118.42 33304118.53 0.0263 0.0149

Uranus 86471-08-16 23:03 G 33304172.44 33304172.46 33304172.49 0.0134 0.0133

Saturn 86471-09-20 08:10 G 33304206.71 33304206.84 33304206.98 0.0263 0.0046

Mars 86471-12-15 01:56 G 33304292.46 33304292.58 33304292.70 0.1606 0.0255

Saturn 86471-12-17 18:29 G 33304295.14 33304295.27 33304295.40 0.0263 0.0059

Saturn 86472-03-15 04:48 G 33304383.60 33304383.70 33304383.81 0.0262 0.0164

Jupiter 86472-05-04 15:08 G 33304433.96 33304434.13 33304434.30 0.0517 0.0114

Pluto 86472-08-06 09:36 G 33304527.89 33304527.90 33304527.96 0.0062 0.0061

Pluto 86472-11-02 11:03 G 33304615.87 33304615.96 33304616.07 0.0062 0.0050

Pluto 86473-01-29 11:46 G 33304703.88 33304703.99 33304704.14 0.0062 0.0040

Pluto 86473-04-27 13:12 G 33304791.90 33304792.05 33304792.21 0.0062 0.0029

Pluto 86473-07-24 13:56 G 33304879.93 33304880.08 33304880.26 0.0062 0.0019

Pluto 86473-10-20 15:08 G 33304967.96 33304968.13 33304968.31 0.0062 0.0008

Mars 86473-11-19 04:34 G 33304997.62 33304997.69 33304997.77 0.1617 0.1259

Pluto 86474-01-16 16:20 G 33305056.00 33305056.18 33305056.35 0.0062 0.0003

Pluto 86474-04-14 17:03 G 33305144.05 33305144.21 33305144.39 0.0062 0.0013

Pluto 86474-07-11 18:15 G 33305232.10 33305232.26 33305232.42 0.0062 0.0024

Mars 86474-09-28 20:24 G 33305311.20 33305311.35 33305311.50 0.1923 0.0683

Pluto 86474-10-07 18:58 G 33305320.16 33305320.29 33305320.45 0.0062 0.0034

Pluto 86475-01-03 20:24 G 33305408.23 33305408.35 33305408.47 0.0062 0.0045

Pluto 86475-04-01 20:53 G 33305496.31 33305496.37 33305496.47 0.0062 0.0056

Venus 86475-10-23 06:00 G 33305700.64 33305700.75 33305700.85 0.3625 0.0138

Moon 86477-03-03 16:05 G 33306198.02 33306198.17 33306198.32 0.2700 0.0203

Earth 86477-03-03 15:51 G 33306198.02 33306198.16 33306198.31 0.2707 0.0138 *

Jupiter 86477-12-24 06:00 G 33306493.62 33306493.75 33306493.88 0.0509 0.0122

Moon 86479-09-04 04:05 G 33307112.57 33307112.67 33307112.77 0.2618 0.1415

Earth 86479-09-04 04:05 G 33307112.57 33307112.67 33307112.77 0.2625 0.1379 *

Mars 86481-05-06 13:27 G 33307722.95 33307723.06 33307723.17 0.1604 0.0610

Venus 86481-05-07 21:22 G 33307724.30 33307724.39 33307724.47 0.3625 0.2206

Mars 86483-04-11 15:51 G 33308428.06 33308428.16 33308428.26 0.1614 0.0878

Mars 86484-02-18 13:27 G 33308740.90 33308741.06 33308741.22 0.1928 0.0546

Jupiter 86484-02-21 12:15 G 33308743.84 33308744.01 33308744.19 0.0516 0.0134

Earth 86486-08-28 01:27 G 33309662.51 33309662.56 33309662.60 0.2627 0.2365

Moon 86486-08-28 01:56 G 33309662.53 33309662.58 33309662.63 0.2629 0.2339 *

Saturn 86486-10-17 03:51 G 33309712.50 33309712.66 33309712.83 0.0299 0.0124

Saturn 86487-01-14 04:20 G 33309801.51 33309801.68 33309801.85 0.0299 0.0085

Saturn 86487-04-13 04:05 G 33309890.64 33309890.67 33309890.72 0.0300 0.0291

Jupiter 86489-10-12 09:51 G 33310803.78 33310803.91 33310804.04 0.0510 0.0059

Moon 86490-03-06 18:15 G 33310949.19 33310949.26 33310949.33 0.2702 0.2322

Earth 86490-03-06 19:12 G 33310949.25 33310949.30 33310949.35 0.2708 0.2512 *

Mars 86490-09-27 00:58 G 33311153.45 33311153.54 33311153.63 0.1602 0.0959

Venus 86490-11-17 13:56 G 33311205.00 33311205.08 33311205.16 0.3747 0.3170

Mars 86492-09-01 03:08 G 33311858.52 33311858.63 33311858.74 0.1611 0.0507

Moon 86492-09-05 22:20 G 33311863.43 33311863.43 33311863.44 0.2622 0.2616

Mars 86493-07-10 06:15 G 33312170.70 33312170.76 33312170.81 0.1931 0.1804

Jupiter 86495-12-10 09:22 G 33313053.78 33313053.89 33313054.01 0.0515 0.0382

Earth 86499-08-30 19:41 G 33314413.22 33314413.32 33314413.43 0.2626 0.1062

Moon 86499-08-30 20:39 G 33314413.25 33314413.36 33314413.47 0.2624 0.0935 *

Mars 86500-02-17 12:44 G 33314583.96 33314584.03 33314584.09 0.1600 0.1306

Saturn 86500-11-11 01:41 G 33314850.48 33314850.57 33314850.68 0.0263 0.0169

Saturn 86501-02-07 12:00 G 33314938.87 33314939.00 33314939.13 0.0262 0.0065

Saturn 86501-05-06 22:20 G 33315027.29 33315027.43 33315027.56 0.0262 0.0039

Jupiter 86501-08-01 13:56 G 33315113.97 33315114.08 33315114.20 0.0511 0.0228

Saturn 86501-08-03 08:39 G 33315115.75 33315115.86 33315115.97 0.0262 0.0143

Jupiter 86501-10-29 19:41 G 33315203.27 33315203.32 33315203.38 0.0509 0.0454

Saturn 86501-10-30 18:58 G 33315204.26 33315204.29 33315204.33 0.0262 0.0249

Mars 86502-01-23 14:24 G 33315288.98 33315289.10 33315289.22 0.1608 0.0141

Neptune 86504-06-22 16:48 G 33316170.16 33316170.20 33316170.26 0.0088 0.0081

Neptune 86504-09-18 18:15 G 33316258.19 33316258.26 33316258.34 0.0088 0.0074

Mars 86504-11-08 03:08 G 33316308.63 33316308.63 33316308.63 0.1919 0.1918

Neptune 86504-12-15 19:27 G 33316346.24 33316346.31 33316346.41 0.0088 0.0067

Neptune 86505-03-13 20:53 G 33316434.28 33316434.37 33316434.48 0.0088 0.0060

Neptune 86505-06-09 22:34 G 33316522.33 33316522.44 33316522.55 0.0088 0.0052

Neptune 86505-09-06 00:00 G 33316610.38 33316610.50 33316610.62 0.0088 0.0045

Neptune 86505-12-03 01:12 G 33316698.44 33316698.55 33316698.68 0.0088 0.0038

Neptune 86506-03-01 02:39 G 33316786.49 33316786.61 33316786.75 0.0088 0.0031

Neptune 86506-05-28 04:20 G 33316874.55 33316874.68 33316874.81 0.0088 0.0023

Neptune 86506-08-24 05:46 G 33316962.60 33316962.74 33316962.88 0.0088 0.0016

Neptune 86506-11-20 07:12 G 33317050.66 33317050.80 33317050.94 0.0088 0.0008

Neptune 86507-02-16 08:39 G 33317138.72 33317138.86 33317139.00 0.0088 0.0001

Neptune 86507-05-15 10:05 G 33317226.78 33317226.92 33317227.06 0.0088 0.0006

Neptune 86507-08-11 11:32 G 33317314.84 33317314.98 33317315.12 0.0088 0.0014

Neptune 86507-11-07 12:58 G 33317402.91 33317403.04 33317403.18 0.0088 0.0021

Jupiter 86507-12-28 14:39 G 33317453.99 33317454.11 33317454.24 0.0517 0.0346

Neptune 86508-02-03 14:24 G 33317490.97 33317491.10 33317491.24 0.0088 0.0028

Neptune 86508-05-01 15:51 G 33317579.04 33317579.16 33317579.29 0.0088 0.0036

Neptune 86508-07-28 17:32 G 33317667.11 33317667.23 33317667.35 0.0088 0.0043

Neptune 86508-10-24 18:44 G 33317755.18 33317755.28 33317755.40 0.0088 0.0051

Neptune 86509-01-20 20:24 G 33317843.25 33317843.35 33317843.46 0.0088 0.0058

Neptune 86509-04-18 21:36 G 33317931.32 33317931.40 33317931.51 0.0088 0.0066

Neptune 86509-07-15 23:17 G 33318019.40 33318019.47 33318019.55 0.0088 0.0073

Neptune 86509-10-12 00:44 G 33318107.49 33318107.53 33318107.59 0.0088 0.0081

Earth 86510-03-02 18:15 G 33318249.16 33318249.26 33318249.37 0.2707 0.1859

Moon 86510-03-02 19:12 G 33318249.19 33318249.30 33318249.40 0.2700 0.1816 *

Uranus 86511-03-21 05:32 G 33318632.66 33318632.73 33318632.79 0.0143 0.0125

Mars 86511-06-16 01:56 G 33318719.46 33318719.58 33318719.69 0.1606 0.0229

Uranus 86511-06-17 09:08 G 33318720.79 33318720.88 33318720.98 0.0144 0.0103

Uranus 86511-09-13 12:58 G 33318808.93 33318809.04 33318809.16 0.0144 0.0080

Uranus 86511-12-10 17:03 G 33318897.08 33318897.21 33318897.33 0.0144 0.0058

Uranus 86512-03-07 20:39 G 33318985.23 33318985.36 33318985.50 0.0144 0.0036

Uranus 86512-06-04 00:44 G 33319073.39 33319073.53 33319073.67 0.0144 0.0012

Uranus 86512-08-31 04:34 G 33319161.55 33319161.69 33319161.83 0.0144 0.0011

Earth 86512-09-02 14:24 G 33319163.98 33319164.10 33319164.21 0.2626 0.0285

Moon 86512-09-02 14:39 G 33319164.00 33319164.11 33319164.23 0.2620 0.0333 *

Uranus 86512-11-27 08:24 G 33319249.72 33319249.85 33319249.99 0.0144 0.0034

Uranus 86513-02-23 12:29 G 33319337.89 33319338.02 33319338.15 0.0144 0.0056

Jupiter 86513-05-20 18:29 G 33319424.19 33319424.27 33319424.35 0.0512 0.0392

Mars 86513-05-21 04:34 G 33319424.62 33319424.69 33319424.76 0.1617 0.1292

Uranus 86513-05-22 16:20 G 33319426.07 33319426.18 33319426.30 0.0144 0.0080

Jupiter 86513-08-18 00:00 G 33319513.39 33319513.50 33319513.61 0.0509 0.0288

Uranus 86513-08-18 20:24 G 33319514.26 33319514.35 33319514.45 0.0144 0.0103

Uranus 86513-11-15 00:15 G 33319602.46 33319602.51 33319602.58 0.0144 0.0127

Mars 86514-03-30 20:53 G 33319738.22 33319738.37 33319738.52 0.1923 0.0748

Saturn 86516-03-06 03:08 G 33320444.49 33320444.63 33320444.78 0.0299 0.0176

Saturn 86516-06-03 03:51 G 33320533.48 33320533.66 33320533.84 0.0299 0.0034

Saturn 86516-08-31 03:51 G 33320622.56 33320622.66 33320622.77 0.0299 0.0240

Jupiter 86519-10-16 12:15 G 33321763.84 33321764.01 33321764.18 0.0517 0.0102

Mars 86520-11-05 13:27 G 33322149.95 33322150.06 33322150.17 0.1604 0.0576

Mars 86522-10-11 15:51 G 33322855.06 33322855.16 33322855.25 0.1614 0.0911

Moon 86523-03-05 22:05 G 33323000.27 33323000.42 33323000.56 0.2700 0.0590

Earth 86523-03-05 22:05 G 33323000.28 33323000.42 33323000.56 0.2707 0.0597 *

Mars 86523-08-20 14:24 G 33323167.94 33323168.10 33323168.26 0.1928 0.0456

Jupiter 86525-06-06 04:20 G 33323823.55 33323823.68 33323823.81 0.0509 0.0120

Moon 86525-09-05 08:53 G 33323914.78 33323914.87 33323914.97 0.2619 0.1584

Earth 86525-09-05 09:08 G 33323914.79 33323914.88 33323914.97 0.2625 0.1652 *

Venus 86526-11-14 12:00 G 33324349.90 33324350.00 33324350.09 0.3625 0.1434

Mars 86530-03-29 00:58 G 33325580.44 33325580.54 33325580.63 0.1602 0.0926

Saturn 86530-03-31 04:34 G 33325582.61 33325582.69 33325582.78 0.0263 0.0199

Saturn 86530-06-27 14:39 G 33325670.99 33325671.11 33325671.24 0.0263 0.0096

Saturn 86530-09-24 00:58 G 33325759.40 33325759.54 33325759.67 0.0263 0.0008

Saturn 86530-12-21 11:17 G 33325847.85 33325847.97 33325848.09 0.0262 0.0112

Saturn 86531-03-19 21:36 G 33325936.33 33325936.40 33325936.48 0.0262 0.0217

Jupiter 86531-08-04 09:36 G 33326073.73 33326073.90 33326074.07 0.0516 0.0146

Mars 86532-03-03 03:08 G 33326285.52 33326285.63 33326285.74 0.1611 0.0541

Venus 86532-05-30 03:08 G 33326373.53 33326373.63 33326373.74 0.3625 0.0797

Earth 86532-08-29 06:15 G 33326464.70 33326464.76 33326464.83 0.2627 0.2105

Moon 86532-08-29 06:58 G 33326464.72 33326464.79 33326464.87 0.2628 0.1948 *

Mars 86533-01-09 06:44 G 33326597.71 33326597.78 33326597.86 0.1931 0.1727

Jupiter 86537-03-25 08:24 G 33328133.72 33328133.85 33328133.98 0.0510 0.0052

Venus 86537-12-13 18:44 G 33328397.22 33328397.28 33328397.33 0.3625 0.3041

Mars 86539-08-19 12:44 G 33329010.96 33329011.03 33329011.10 0.1600 0.1270

Mars 86541-07-24 14:24 G 33329715.98 33329716.10 33329716.22 0.1608 0.0174

Jupiter 86543-05-23 06:44 G 33330383.67 33330383.78 33330383.90 0.0515 0.0390

Saturn 86545-07-24 02:39 G 33331176.49 33331176.61 33331176.72 0.0299 0.0228

Earth 86545-09-01 00:44 G 33331215.42 33331215.53 33331215.64 0.2626 0.0790

Moon 86545-09-01 01:27 G 33331215.45 33331215.56 33331215.67 0.2624 0.0732 *

Saturn 86545-10-21 03:22 G 33331265.46 33331265.64 33331265.82 0.0299 0.0018

Saturn 86546-01-18 03:22 G 33331354.51 33331354.64 33331354.79 0.0300 0.0191

Venus 86547-06-25 16:05 G 33331878.02 33331878.17 33331878.32 0.3747 0.0487

Jupiter 86549-01-11 12:15 G 33332443.89 33332444.01 33332444.12 0.0511 0.0232

Jupiter 86549-04-10 18:00 G 33332533.19 33332533.25 33332533.31 0.0509 0.0449

Mars 86550-12-15 01:56 G 33333146.46 33333146.58 33333146.69 0.1606 0.0190

Mars 86552-11-19 04:34 G 33333851.63 33333851.69 33333851.76 0.1617 0.1326

Uranus 86553-04-07 13:12 G 33333990.95 33333991.05 33333991.15 0.0135 0.0112

Uranus 86553-07-04 19:27 G 33334079.18 33334079.31 33334079.47 0.0135 0.0087

Mars 86553-09-28 21:51 G 33334165.26 33334165.41 33334165.56 0.1923 0.0834

Uranus 86553-10-01 02:24 G 33334167.44 33334167.60 33334167.76 0.0134 0.0061

Uranus 86553-12-28 08:53 G 33334255.70 33334255.87 33334256.05 0.0134 0.0035

Uranus 86554-03-26 15:22 G 33334343.96 33334344.14 33334344.33 0.0134 0.0011

Uranus 86554-06-22 21:51 G 33334432.23 33334432.41 33334432.60 0.0134 0.0016

Uranus 86554-09-19 04:20 G 33334520.51 33334520.68 33334520.86 0.0134 0.0040

Uranus 86554-12-16 10:48 G 33334608.79 33334608.95 33334609.11 0.0134 0.0065

Uranus 86555-03-14 17:03 G 33334697.08 33334697.21 33334697.35 0.0134 0.0090

Jupiter 86555-06-09 12:58 G 33334783.91 33334784.04 33334784.17 0.0517 0.0352

Uranus 86555-06-10 23:32 G 33334785.39 33334785.48 33334785.57 0.0134 0.0114

Earth 86556-03-03 00:29 G 33335051.39 33335051.52 33335051.64 0.2707 0.1399

Moon 86556-03-03 01:12 G 33335051.42 33335051.55 33335051.68 0.2700 0.1218 *

Earth 86558-09-03 19:12 G 33335966.19 33335966.30 33335966.42 0.2626 0.0561

Moon 86558-09-03 19:27 G 33335966.20 33335966.31 33335966.43 0.2619 0.0599 *

Saturn 86559-08-18 08:10 G 33336314.77 33336314.84 33336314.92 0.0263 0.0220

Saturn 86559-11-14 18:29 G 33336403.15 33336403.27 33336403.39 0.0262 0.0117

Saturn 86560-02-11 04:34 G 33336491.56 33336491.69 33336491.83 0.0262 0.0014

Mars 86560-05-06 13:27 G 33336576.95 33336577.06 33336577.17 0.1604 0.0545

Saturn 86560-05-09 14:53 G 33336579.99 33336580.12 33336580.25 0.0262 0.0090

Saturn 86560-08-06 01:12 G 33336668.46 33336668.55 33336668.64 0.0262 0.0195

Jupiter 86560-10-30 16:20 G 33336754.11 33336754.18 33336754.26 0.0512 0.0402

Jupiter 86561-01-27 22:05 G 33336843.31 33336843.42 33336843.53 0.0509 0.0279

Mars 86562-04-11 15:51 G 33337282.06 33337282.16 33337282.25 0.1614 0.0947

Mars 86563-02-18 14:53 G 33337594.96 33337595.12 33337595.28 0.1928 0.0390

Pluto 86564-09-11 15:36 G 33338166.11 33338166.15 33338166.21 0.0082 0.0076

Pluto 86564-12-08 17:03 G 33338254.11 33338254.21 33338254.32 0.0082 0.0055

Pluto 86565-03-06 18:29 G 33338342.15 33338342.27 33338342.41 0.0082 0.0035

Pluto 86565-06-02 20:10 G 33338430.19 33338430.34 33338430.48 0.0082 0.0014

Pluto 86565-08-29 21:22 G 33338518.25 33338518.39 33338518.54 0.0082 0.0007

Pluto 86565-11-25 22:48 G 33338606.32 33338606.45 33338606.59 0.0082 0.0026

Pluto 86566-02-22 00:00 G 33338694.39 33338694.50 33338694.63 0.0081 0.0047

Pluto 86566-05-21 01:27 G 33338782.49 33338782.56 33338782.65 0.0081 0.0067

Jupiter 86567-03-28 09:36 G 33339093.73 33339093.90 33339094.08 0.0516 0.0097

Moon 86569-03-06 03:51 G 33339802.52 33339802.66 33339802.79 0.2701 0.0958

Earth 86569-03-06 04:05 G 33339802.54 33339802.67 33339802.81 0.2707 0.1046 *

Mars 86569-09-27 00:58 G 33340007.44 33340007.54 33340007.63 0.1602 0.0896

Mars 86571-09-02 03:08 G 33340712.52 33340712.63 33340712.74 0.1611 0.0574

Moon 86571-09-06 13:41 G 33340716.99 33340717.07 33340717.15 0.2620 0.1899

Earth 86571-09-06 14:10 G 33340717.01 33340717.09 33340717.17 0.2625 0.1925 *

Mars 86572-07-10 07:41 G 33341024.74 33341024.82 33341024.90 0.1932 0.1645

Jupiter 86572-11-16 02:24 G 33341153.47 33341153.60 33341153.73 0.0510 0.0114

Saturn 86574-12-11 01:27 G 33341908.51 33341908.56 33341908.62 0.0299 0.0283

Saturn 86575-03-10 02:24 G 33341997.43 33341997.60 33341997.78 0.0299 0.0072

Saturn 86575-06-07 02:53 G 33342086.46 33342086.62 33342086.77 0.0299 0.0137

Venus 86577-12-05 18:00 G 33342999.19 33342999.25 33342999.31 0.3625 0.2812

Earth 86578-08-30 11:17 G 33343266.89 33343266.97 33343267.05 0.2627 0.1844

Moon 86578-08-30 12:00 G 33343266.92 33343267.00 33343267.08 0.2627 0.1814 *

Jupiter 86579-01-14 06:58 G 33343403.62 33343403.79 33343403.96 0.0516 0.0150

Mars 86579-02-17 12:29 G 33343437.95 33343438.02 33343438.10 0.1600 0.1237

Mars 86581-01-22 14:24 G 33344142.98 33344143.10 33344143.21 0.1608 0.0209

Venus 86583-06-21 09:22 G 33345022.78 33345022.89 33345022.99 0.3625 0.0637

Jupiter 86584-09-04 06:58 G 33345463.65 33345463.79 33345463.92 0.0510 0.0054

Neptune 86587-06-21 01:56 G 33346483.56 33346483.58 33346483.63 0.0090 0.0088

Neptune 86587-09-17 05:17 G 33346571.64 33346571.72 33346571.82 0.0090 0.0077

Neptune 86587-12-14 08:24 G 33346659.75 33346659.85 33346659.99 0.0090 0.0067

Neptune 86588-03-11 12:00 G 33346747.86 33346748.00 33346748.15 0.0090 0.0056

Neptune 86588-06-07 15:08 G 33346835.98 33346836.13 33346836.30 0.0090 0.0046

Mars 86588-07-10 00:15 G 33346868.50 33346868.51 33346868.53 0.1598 0.1576

Neptune 86588-09-03 18:29 G 33346924.11 33346924.27 33346924.44 0.0090 0.0035

Neptune 86588-11-30 21:36 G 33347012.23 33347012.40 33347012.59 0.0090 0.0025

Venus 86589-01-04 00:44 G 33347046.43 33347046.53 33347046.62 0.3625 0.1620

Saturn 86589-01-04 10:48 G 33347046.92 33347046.95 33347046.99 0.0263 0.0252

Neptune 86589-02-27 00:58 G 33347100.36 33347100.54 33347100.73 0.0090 0.0014

Saturn 86589-04-02 20:53 G 33347135.26 33347135.37 33347135.48 0.0263 0.0150

Neptune 86589-05-26 04:20 G 33347188.50 33347188.68 33347188.86 0.0090 0.0004

Saturn 86589-06-30 06:58 G 33347223.66 33347223.79 33347223.93 0.0262 0.0048

Neptune 86589-08-22 07:27 G 33347276.63 33347276.81 33347276.99 0.0090 0.0007

Saturn 86589-09-26 17:17 G 33347312.09 33347312.22 33347312.35 0.0262 0.0057

Neptune 86589-11-18 10:34 G 33347364.77 33347364.94 33347365.12 0.0090 0.0017

Saturn 86589-12-24 03:36 G 33347400.55 33347400.65 33347400.76 0.0262 0.0162

Neptune 86590-02-14 13:41 G 33347452.90 33347453.07 33347453.25 0.0090 0.0028

Neptune 86590-05-13 16:48 G 33347541.04 33347541.20 33347541.37 0.0090 0.0038

Mars 86590-06-15 01:56 G 33347573.46 33347573.58 33347573.69 0.1606 0.0160

Neptune 86590-08-09 19:56 G 33347629.19 33347629.33 33347629.49 0.0090 0.0048

Jupiter 86590-11-02 04:05 G 33347713.56 33347713.67 33347713.78 0.0515 0.0398

Neptune 86590-11-05 23:03 G 33347717.33 33347717.46 33347717.61 0.0090 0.0058

Neptune 86591-02-02 02:24 G 33347805.48 33347805.60 33347805.72 0.0090 0.0068

Neptune 86591-05-01 05:03 G 33347893.64 33347893.71 33347893.82 0.0090 0.0079

Neptune 86591-07-28 08:10 G 33347981.83 33347981.84 33347981.89 0.0090 0.0089

Earth 86591-09-02 05:46 G 33348017.62 33348017.74 33348017.85 0.2626 0.0527

Moon 86591-09-02 06:15 G 33348017.65 33348017.76 33348017.88 0.2623 0.0395 *

Mars 86592-05-20 04:34 G 33348278.63 33348278.69 33348278.75 0.1617 0.1361

Mars 86593-03-29 22:34 G 33348592.30 33348592.44 33348592.59 0.1923 0.0919

Uranus 86595-01-12 08:53 G 33349245.86 33349245.87 33349245.91 0.0143 0.0141

Uranus 86595-04-10 12:44 G 33349333.96 33349334.03 33349334.11 0.0144 0.0118

Uranus 86595-07-07 16:48 G 33349422.10 33349422.20 33349422.30 0.0144 0.0096

Uranus 86595-10-03 20:24 G 33349510.24 33349510.35 33349510.47 0.0144 0.0074

Uranus 86595-12-31 00:29 G 33349598.39 33349598.52 33349598.64 0.0144 0.0051

Uranus 86596-03-28 04:20 G 33349686.54 33349686.68 33349686.81 0.0144 0.0028

Jupiter 86596-06-23 11:03 G 33349773.85 33349773.96 33349774.08 0.0511 0.0220

Uranus 86596-06-24 08:10 G 33349774.70 33349774.84 33349774.98 0.0144 0.0005

Uranus 86596-09-20 12:00 G 33349862.87 33349863.00 33349863.14 0.0144 0.0018

Jupiter 86596-09-20 16:48 G 33349863.15 33349863.20 33349863.25 0.0508 0.0461

Uranus 86596-12-17 15:51 G 33349951.03 33349951.16 33349951.30 0.0144 0.0041

Uranus 86597-03-15 19:56 G 33350039.21 33350039.33 33350039.45 0.0144 0.0064

Uranus 86597-06-12 00:00 G 33350127.39 33350127.50 33350127.61 0.0144 0.0087

Uranus 86597-09-08 03:51 G 33350215.58 33350215.66 33350215.75 0.0144 0.0110

Uranus 86597-12-05 07:56 G 33350303.78 33350303.83 33350303.88 0.0144 0.0134

Mars 86599-11-05 13:27 G 33351003.94 33351004.06 33351004.17 0.1604 0.0512

Mars 86601-10-11 15:51 G 33351709.06 33351709.16 33351709.25 0.1614 0.0982

Earth 86602-03-05 06:44 G 33351853.64 33351853.78 33351853.91 0.2707 0.0932

Moon 86602-03-05 07:27 G 33351853.67 33351853.81 33351853.94 0.2701 0.0938 *

Mars 86602-08-20 15:51 G 33352022.00 33352022.16 33352022.32 0.1928 0.0302

Jupiter 86602-11-20 10:20 G 33352113.81 33352113.93 33352114.07 0.0517 0.0350

Venus 86604-01-31 18:00 G 33352551.13 33352551.25 33352551.38 0.3747 0.2149

Saturn 86604-07-28 00:29 G 33352729.37 33352729.52 33352729.69 0.0299 0.0134

Earth 86604-09-05 00:15 G 33352768.40 33352768.51 33352768.62 0.2626 0.0830

Moon 86604-09-05 00:29 G 33352768.41 33352768.52 33352768.63 0.2619 0.0819 *

Saturn 86604-10-25 01:12 G 33352818.38 33352818.55 33352818.73 0.0299 0.0077

Saturn 86605-01-22 01:27 G 33352907.50 33352907.56 33352907.61 0.0300 0.0283

Jupiter 86608-04-12 14:39 G 33354084.04 33354084.11 33354084.19 0.0512 0.0402

Jupiter 86608-07-10 20:24 G 33354173.24 33354173.35 33354173.46 0.0509 0.0278

Mars 86609-03-29 00:58 G 33354434.44 33354434.54 33354434.63 0.1602 0.0860

Mars 86611-03-04 03:08 G 33355139.52 33355139.63 33355139.74 0.1611 0.0610

Mars 86612-01-10 08:39 G 33355451.76 33355451.86 33355451.95 0.1931 0.1560

Jupiter 86614-09-08 08:10 G 33356423.67 33356423.84 33356424.01 0.0516 0.0109

Moon 86615-03-08 09:36 G 33356604.78 33356604.90 33356605.02 0.2701 0.1487

Earth 86615-03-08 10:20 G 33356604.81 33356604.93 33356605.05 0.2707 0.1497 *

Moon 86617-09-07 18:44 G 33357519.21 33357519.28 33357519.34 0.2620 0.2141

Earth 86617-09-07 19:12 G 33357519.23 33357519.30 33357519.36 0.2625 0.2203 *

Mars 86618-08-19 12:29 G 33357864.95 33357865.02 33357865.10 0.1600 0.1205

Saturn 86618-08-22 00:29 G 33357867.42 33357867.52 33357867.62 0.0262 0.0172

Saturn 86618-11-18 10:34 G 33357955.81 33357955.94 33357956.07 0.0262 0.0069

Saturn 86619-02-14 20:53 G 33358044.23 33358044.37 33358044.50 0.0262 0.0035

Saturn 86619-05-14 06:58 G 33358132.68 33358132.79 33358132.91 0.0262 0.0139

Saturn 86619-08-10 17:32 G 33358221.18 33358221.23 33358221.28 0.0261 0.0243

Jupiter 86620-04-29 00:29 G 33358483.39 33358483.52 33358483.65 0.0510 0.0109

Mars 86620-07-24 14:24 G 33358569.98 33358570.10 33358570.22 0.1608 0.0243

Earth 86624-08-31 16:05 G 33360069.08 33360069.17 33360069.26 0.2626 0.1584

Moon 86624-08-31 17:03 G 33360069.11 33360069.21 33360069.30 0.2627 0.1417 *

Jupiter 86626-06-27 05:03 G 33360733.54 33360733.71 33360733.88 0.0515 0.0147

Mars 86628-01-10 00:15 G 33361295.48 33361295.51 33361295.54 0.1598 0.1543

Mars 86629-12-15 01:41 G 33362000.45 33362000.57 33362000.69 0.1606 0.0128

Mars 86631-11-20 04:34 G 33362705.63 33362705.69 33362705.75 0.1617 0.1394

Jupiter 86632-02-16 05:03 G 33362793.58 33362793.71 33362793.84 0.0511 0.0056

Mars 86632-09-28 23:03 G 33363019.32 33363019.46 33363019.60 0.1924 0.0979

Saturn 86633-12-14 23:17 G 33363461.34 33363461.47 33363461.62 0.0299 0.0190

Saturn 86634-03-14 00:15 G 33363550.33 33363550.51 33363550.69 0.0300 0.0022

Saturn 86634-06-11 00:15 G 33363639.40 33363639.51 33363639.63 0.0300 0.0228

Venus 86634-07-13 15:22 G 33363672.05 33363672.14 33363672.22 0.3625 0.1998

Uranus 86637-01-30 12:58 G 33364604.02 33364604.04 33364604.09 0.0134 0.0132

Uranus 86637-04-28 19:41 G 33364692.22 33364692.32 33364692.44 0.0134 0.0106

Uranus 86637-07-26 02:39 G 33364780.46 33364780.61 33364780.76 0.0134 0.0080

Earth 86637-09-03 10:34 G 33364819.83 33364819.94 33364820.06 0.2626 0.0263

Moon 86637-09-03 11:03 G 33364819.85 33364819.96 33364820.08 0.2621 0.0274 *

Uranus 86637-10-22 09:08 G 33364868.72 33364868.88 33364869.05 0.0134 0.0054

Uranus 86638-01-18 15:36 G 33364956.98 33364957.15 33364957.34 0.0134 0.0029

Jupiter 86638-04-15 02:10 G 33365043.48 33365043.59 33365043.70 0.0515 0.0394

Uranus 86638-04-16 22:20 G 33365045.25 33365045.43 33365045.61 0.0134 0.0004

Uranus 86638-07-14 04:48 G 33365133.52 33365133.70 33365133.88 0.0134 0.0021

Uranus 86638-10-10 11:03 G 33365221.80 33365221.96 33365222.14 0.0134 0.0047

Uranus 86639-01-06 17:17 G 33365310.08 33365310.22 33365310.39 0.0134 0.0072

Uranus 86639-04-04 23:46 G 33365398.37 33365398.49 33365398.63 0.0134 0.0096

Mars 86639-05-07 13:12 G 33365430.94 33365431.05 33365431.17 0.1604 0.0476

Uranus 86639-07-02 06:00 G 33365486.68 33365486.75 33365486.84 0.0134 0.0120

Venus 86640-01-27 06:44 G 33365695.67 33365695.78 33365695.88 0.3625 0.0239

Mars 86641-04-11 15:36 G 33366136.06 33366136.15 33366136.25 0.1614 0.1013

Mars 86642-02-18 16:48 G 33366449.04 33366449.20 33366449.37 0.1928 0.0217

Jupiter 86643-12-05 09:36 G 33367103.78 33367103.90 33367104.02 0.0511 0.0217

Jupiter 86644-03-03 15:22 G 33367193.09 33367193.14 33367193.19 0.0509 0.0464

Venus 86645-08-11 22:05 G 33367719.34 33367719.42 33367719.49 0.3625 0.2453

Saturn 86648-01-09 02:39 G 33368599.54 33368599.61 33368599.70 0.0263 0.0206

Earth 86648-03-05 12:44 G 33368655.89 33368656.03 33368656.18 0.2707 0.0483

Moon 86648-03-05 13:12 G 33368655.90 33368656.05 33368656.19 0.2700 0.0347 *

Saturn 86648-04-06 12:58 G 33368687.91 33368688.04 33368688.16 0.0262 0.0103

Saturn 86648-07-03 23:03 G 33368776.32 33368776.46 33368776.60 0.0262 0.0001

Mars 86648-09-27 00:44 G 33368861.43 33368861.53 33368861.63 0.1602 0.0828

Saturn 86648-09-30 09:22 G 33368864.76 33368864.89 33368865.01 0.0262 0.0104

Saturn 86648-12-27 19:27 G 33368953.24 33368953.31 33368953.40 0.0262 0.0209

Jupiter 86650-05-02 08:10 G 33369443.72 33369443.84 33369443.97 0.0517 0.0349

Mars 86650-09-02 03:08 G 33369566.52 33369566.63 33369566.74 0.1611 0.0645

Moon 86650-09-06 05:32 G 33369570.62 33369570.73 33369570.83 0.2619 0.1154

Earth 86650-09-06 05:17 G 33369570.62 33369570.72 33369570.83 0.2626 0.1099 *

Mars 86651-07-11 09:22 G 33369878.79 33369878.89 33369879.00 0.1931 0.1474

Venus 86655-02-21 10:48 G 33371199.88 33371199.95 33371200.02 0.3747 0.3311

Jupiter 86655-09-23 13:56 G 33371414.00 33371414.08 33371414.17 0.0512 0.0384

Jupiter 86655-12-21 19:27 G 33371503.21 33371503.31 33371503.42 0.0509 0.0296

Moon 86657-08-30 03:22 G 33372120.61 33372120.64 33372120.67 0.2630 0.2528

Mars 86658-02-17 12:29 G 33372291.94 33372292.02 33372292.10 0.1600 0.1169

Mars 86660-01-23 14:24 G 33372996.98 33372997.10 33372997.21 0.1608 0.0279

Moon 86661-03-08 15:51 G 33373407.05 33373407.16 33373407.27 0.2701 0.1779

Earth 86661-03-08 16:20 G 33373407.09 33373407.18 33373407.28 0.2707 0.1945 *

Jupiter 86662-02-18 06:15 G 33373753.59 33373753.76 33373753.93 0.0516 0.0113

Saturn 86663-05-03 20:24 G 33374193.27 33374193.35 33374193.44 0.0299 0.0261

Saturn 86663-07-31 21:22 G 33374282.21 33374282.39 33374282.57 0.0299 0.0049

Moon 86663-09-08 23:32 G 33374321.43 33374321.48 33374321.53 0.2620 0.2374

Earth 86663-09-09 00:00 G 33374321.47 33374321.50 33374321.54 0.2625 0.2487 *

Saturn 86663-10-28 21:51 G 33374371.26 33374371.41 33374371.56 0.0300 0.0161

Mars 86667-07-11 00:15 G 33375722.47 33375722.51 33375722.54 0.1598 0.1509

Jupiter 86667-10-09 23:03 G 33375813.34 33375813.46 33375813.59 0.0510 0.0113

Neptune 86668-12-22 15:08 G 33376253.10 33376253.13 33376253.18 0.0088 0.0084

Neptune 86669-03-20 16:34 G 33376341.13 33376341.19 33376341.26 0.0088 0.0077

Mars 86669-06-15 01:41 G 33376427.46 33376427.57 33376427.69 0.1606 0.0100

Neptune 86669-06-16 17:46 G 33376429.18 33376429.24 33376429.34 0.0088 0.0070

Neptune 86669-09-12 19:12 G 33376517.22 33376517.30 33376517.41 0.0088 0.0063

Neptune 86669-12-09 20:53 G 33376605.27 33376605.37 33376605.48 0.0088 0.0055

Neptune 86670-03-07 22:20 G 33376693.32 33376693.43 33376693.55 0.0088 0.0048

Neptune 86670-06-03 23:32 G 33376781.37 33376781.48 33376781.61 0.0088 0.0041

Neptune 86670-08-31 00:58 G 33376869.42 33376869.54 33376869.68 0.0088 0.0034

Earth 86670-09-01 21:08 G 33376871.28 33376871.38 33376871.48 0.2626 0.1326

Moon 86670-09-01 21:51 G 33376871.31 33376871.41 33376871.51 0.2626 0.1287 *

Neptune 86670-11-27 02:39 G 33376957.48 33376957.61 33376957.74 0.0088 0.0026

Neptune 86671-02-23 04:05 G 33377045.54 33377045.67 33377045.81 0.0088 0.0019

Mars 86671-05-21 04:34 G 33377132.64 33377132.69 33377132.74 0.1617 0.1428

Neptune 86671-05-22 05:32 G 33377133.59 33377133.73 33377133.87 0.0088 0.0011

Neptune 86671-08-18 06:58 G 33377221.65 33377221.79 33377221.93 0.0088 0.0004

Neptune 86671-11-14 08:24 G 33377309.71 33377309.85 33377309.99 0.0088 0.0003

Neptune 86672-02-10 09:51 G 33377397.77 33377397.91 33377398.05 0.0088 0.0011

Mars 86672-03-30 00:15 G 33377446.37 33377446.51 33377446.64 0.1923 0.1068

Neptune 86672-05-08 11:17 G 33377485.84 33377485.97 33377486.11 0.0088 0.0018

Neptune 86672-08-04 12:44 G 33377573.90 33377574.03 33377574.17 0.0088 0.0025

Neptune 86672-10-31 14:10 G 33377661.97 33377662.09 33377662.22 0.0088 0.0033

Neptune 86673-01-27 15:36 G 33377750.03 33377750.15 33377750.28 0.0088 0.0040

Neptune 86673-04-25 17:03 G 33377838.10 33377838.21 33377838.34 0.0088 0.0048

Neptune 86673-07-22 18:44 G 33377926.17 33377926.28 33377926.39 0.0088 0.0055

Neptune 86673-10-18 19:56 G 33378014.25 33378014.33 33378014.44 0.0088 0.0063

Jupiter 86673-12-07 03:51 G 33378063.49 33378063.66 33378063.84 0.0515 0.0127

Neptune 86674-01-14 21:36 G 33378102.32 33378102.40 33378102.49 0.0088 0.0070

Neptune 86674-04-12 23:03 G 33378190.40 33378190.46 33378190.53 0.0088 0.0078

Neptune 86674-07-10 00:44 G 33378278.50 33378278.53 33378278.56 0.0088 0.0085

Saturn 86677-05-28 06:00 G 33379331.69 33379331.75 33379331.82 0.0263 0.0230

Saturn 86677-08-24 16:05 G 33379420.06 33379420.17 33379420.29 0.0262 0.0128

Saturn 86677-11-21 02:24 G 33379508.46 33379508.60 33379508.73 0.0262 0.0026

Saturn 86678-02-17 12:29 G 33379596.89 33379597.02 33379597.15 0.0262 0.0078

Saturn 86678-05-16 22:48 G 33379685.36 33379685.45 33379685.55 0.0261 0.0183

Mars 86678-11-05 13:12 G 33379857.94 33379858.05 33379858.17 0.1603 0.0444

Uranus 86679-02-02 16:05 G 33379947.13 33379947.17 33379947.21 0.0144 0.0136

Uranus 86679-05-01 19:41 G 33380035.25 33380035.32 33380035.41 0.0144 0.0114

Uranus 86679-07-28 23:46 G 33380123.39 33380123.49 33380123.59 0.0144 0.0091

Jupiter 86679-07-29 03:22 G 33380123.51 33380123.64 33380123.77 0.0511 0.0057 *

Uranus 86679-10-25 03:36 G 33380211.53 33380211.65 33380211.77 0.0144 0.0069

Uranus 86680-01-21 07:27 G 33380299.68 33380299.81 33380299.94 0.0144 0.0046

Uranus 86680-04-18 11:17 G 33380387.84 33380387.97 33380388.11 0.0144 0.0023

Uranus 86680-07-15 15:08 G 33380476.00 33380476.13 33380476.27 0.0144 0.0003

Mars 86680-10-10 15:51 G 33380563.07 33380563.16 33380563.25 0.1614 0.1050

Uranus 86680-10-11 19:12 G 33380564.16 33380564.30 33380564.43 0.0144 0.0023

Uranus 86681-01-07 23:03 G 33380652.33 33380652.46 33380652.59 0.0144 0.0045

Earth 86681-03-03 15:08 G 33380707.08 33380707.13 33380707.18 0.2706 0.2510

Moon 86681-03-03 16:20 G 33380707.10 33380707.18 33380707.25 0.2702 0.2283 *

Uranus 86681-04-06 02:53 G 33380740.50 33380740.62 33380740.75 0.0144 0.0069

Uranus 86681-07-03 06:58 G 33380828.69 33380828.79 33380828.90 0.0144 0.0092

Mars 86681-08-19 17:17 G 33380876.06 33380876.22 33380876.39 0.1928 0.0149

Uranus 86681-09-29 10:48 G 33380916.88 33380916.95 33380917.04 0.0144 0.0115

Uranus 86681-12-26 14:53 G 33381005.09 33381005.12 33381005.16 0.0144 0.0139

Earth 86683-09-04 15:36 G 33381622.03 33381622.15 33381622.26 0.2626 0.0030

Moon 86683-09-04 16:05 G 33381622.05 33381622.17 33381622.28 0.2620 0.0145 *

Venus 86685-08-03 21:36 G 33382321.36 33382321.40 33382321.43 0.3625 0.3366

Jupiter 86685-09-25 00:44 G 33382373.41 33382373.53 33382373.65 0.0515 0.0381

Mars 86688-03-28 00:44 G 33383288.43 33383288.53 33383288.63 0.1601 0.0794

Mars 86690-03-03 02:53 G 33383993.52 33383993.62 33383993.73 0.1611 0.0675

Mars 86691-01-09 10:05 G 33384305.81 33384305.92 33384306.03 0.1932 0.1401

Venus 86691-02-17 12:44 G 33384344.93 33384345.03 33384345.13 0.3625 0.1180

Jupiter 86691-05-17 07:56 G 33384433.71 33384433.83 33384433.95 0.0512 0.0220

Jupiter 86691-08-14 13:41 G 33384523.02 33384523.07 33384523.12 0.0509 0.0463

Saturn 86692-12-17 19:27 G 33385014.15 33385014.31 33385014.48 0.0300 0.0111

Saturn 86693-03-16 19:56 G 33385103.17 33385103.33 33385103.50 0.0300 0.0099

Moon 86694-03-06 18:58 G 33385458.15 33385458.29 33385458.44 0.2700 0.0118

Earth 86694-03-06 18:58 G 33385458.15 33385458.29 33385458.44 0.2707 0.0046 *

Venus 86696-09-02 04:05 G 33386368.57 33386368.67 33386368.77 0.3625 0.1041

Moon 86696-09-06 10:20 G 33386372.82 33386372.93 33386373.03 0.2619 0.1308

Earth 86696-09-06 10:20 G 33386372.83 33386372.93 33386373.03 0.2625 0.1375 *

Mars 86697-08-18 12:29 G 33386718.94 33386719.02 33386719.10 0.1600 0.1135

Jupiter 86697-10-12 06:44 G 33386773.66 33386773.78 33386773.91 0.0517 0.0359

Mars 86699-07-24 14:24 G 33387423.98 33387424.10 33387424.21 0.1608 0.0316

Venus 86702-03-19 19:27 G 33388392.27 33388392.31 33388392.35 0.3625 0.3291

Jupiter 86703-03-06 12:44 G 33388743.94 33388744.03 33388744.11 0.0512 0.0379

Jupiter 86703-06-03 18:15 G 33388833.15 33388833.26 33388833.36 0.0509 0.0301

Earth 86703-09-01 07:41 G 33388922.77 33388922.82 33388922.86 0.2627 0.2370

Moon 86703-09-01 08:24 G 33388922.79 33388922.85 33388922.90 0.2630 0.2293 *

Mars 86707-01-10 00:15 G 33390149.46 33390149.51 33390149.55 0.1598 0.1477

Saturn 86707-01-12 18:15 G 33390152.16 33390152.26 33390152.37 0.0262 0.0164

Moon 86707-03-10 21:51 G 33390209.34 33390209.41 33390209.47 0.2701 0.2382

Earth 86707-03-10 22:34 G 33390209.37 33390209.44 33390209.50 0.2707 0.2387 *

Saturn 86707-04-11 04:34 G 33390240.56 33390240.69 33390240.82 0.0262 0.0060

Saturn 86707-07-08 14:39 G 33390328.98 33390329.11 33390329.25 0.0262 0.0043

Saturn 86707-10-05 00:58 G 33390417.43 33390417.54 33390417.65 0.0261 0.0147

Saturn 86708-01-01 11:17 G 33390505.94 33390505.97 33390506.01 0.0261 0.0251

Mars 86708-12-15 01:41 G 33390854.45 33390854.57 33390854.69 0.1606 0.0065

Jupiter 86709-08-01 04:20 G 33391083.51 33391083.68 33391083.85 0.0516 0.0117

Mars 86710-11-20 04:34 G 33391559.64 33391559.69 33391559.74 0.1617 0.1464

Venus 86711-09-29 12:58 G 33391872.89 33391873.04 33391873.19 0.3748 0.0607

Mars 86711-09-30 00:58 G 33391873.41 33391873.54 33391873.67 0.1923 0.1145

Jupiter 86715-03-22 22:34 G 33393143.31 33393143.44 33393143.57 0.0510 0.0135

Earth 86716-09-03 01:56 G 33393673.48 33393673.58 33393673.69 0.2626 0.1061

Moon 86716-09-03 02:39 G 33393673.50 33393673.61 33393673.72 0.2624 0.0929 *

Mars 86718-05-07 13:12 G 33394284.94 33394285.05 33394285.16 0.1604 0.0408

Mars 86720-04-11 15:51 G 33394990.07 33394990.16 33394990.24 0.1614 0.1084

Pluto 86720-12-01 17:17 G 33395224.13 33395224.22 33395224.32 0.0062 0.0052

Mars 86721-02-18 18:15 G 33395303.10 33395303.26 33395303.42 0.1928 0.0063

Uranus 86721-02-20 19:41 G 33395305.27 33395305.32 33395305.40 0.0134 0.0126

Pluto 86721-02-27 18:00 G 33395312.14 33395312.25 33395312.39 0.0062 0.0042

Jupiter 86721-05-20 02:24 G 33395393.42 33395393.60 33395393.77 0.0516 0.0117

Uranus 86721-05-20 02:24 G 33395393.49 33395393.60 33395393.73 0.0134 0.0100 *

Pluto 86721-05-26 19:27 G 33395400.16 33395400.31 33395400.46 0.0062 0.0031

Uranus 86721-08-16 09:08 G 33395481.73 33395481.88 33395482.04 0.0134 0.0074

Pluto 86721-08-22 20:10 G 33395488.19 33395488.34 33395488.51 0.0062 0.0021

Uranus 86721-11-12 15:51 G 33395569.99 33395570.16 33395570.33 0.0134 0.0049

Pluto 86721-11-18 21:08 G 33395576.22 33395576.38 33395576.56 0.0062 0.0011

Uranus 86722-02-08 22:20 G 33395658.25 33395658.43 33395658.62 0.0134 0.0023

Pluto 86722-02-14 22:20 G 33395664.26 33395664.43 33395664.61 0.0062 0.0002

Saturn 86722-05-07 15:36 G 33395746.01 33395746.15 33395746.29 0.0299 0.0190

Uranus 86722-05-08 05:03 G 33395746.52 33395746.71 33395746.89 0.0134 0.0004

Pluto 86722-05-13 23:17 G 33395752.31 33395752.47 33395752.65 0.0062 0.0011

Uranus 86722-08-04 11:17 G 33395834.80 33395834.97 33395835.15 0.0134 0.0027

Saturn 86722-08-04 16:20 G 33395835.00 33395835.18 33395835.36 0.0300 0.0023 *

Pluto 86722-08-10 00:15 G 33395840.36 33395840.51 33395840.68 0.0062 0.0022

Uranus 86722-10-31 17:32 G 33395923.08 33395923.23 33395923.41 0.0134 0.0053

Saturn 86722-11-01 16:48 G 33395924.08 33395924.20 33395924.31 0.0300 0.0230

Pluto 86722-11-06 01:12 G 33395928.41 33395928.55 33395928.71 0.0062 0.0032

Uranus 86723-01-28 00:15 G 33396011.36 33396011.51 33396011.66 0.0134 0.0076

Pluto 86723-02-02 02:24 G 33396016.48 33396016.60 33396016.73 0.0062 0.0042

Uranus 86723-04-26 06:15 G 33396099.66 33396099.76 33396099.89 0.0134 0.0102

Pluto 86723-05-01 03:08 G 33396104.56 33396104.63 33396104.74 0.0062 0.0053

Uranus 86723-07-23 12:44 G 33396187.98 33396188.03 33396188.10 0.0134 0.0125

Jupiter 86727-01-09 02:10 G 33397453.46 33397453.59 33397453.72 0.0511 0.0049

Earth 86727-03-05 21:22 G 33397509.29 33397509.39 33397509.48 0.2706 0.2036

Moon 86727-03-05 22:20 G 33397509.33 33397509.43 33397509.53 0.2702 0.1959 *

Mars 86727-09-28 00:44 G 33397715.43 33397715.53 33397715.64 0.1601 0.0758

Mars 86729-09-02 02:53 G 33398420.52 33398420.62 33398420.73 0.1611 0.0714

Earth 86729-09-05 20:39 G 33398424.24 33398424.36 33398424.47 0.2626 0.0296

Moon 86729-09-05 20:53 G 33398424.26 33398424.37 33398424.49 0.2620 0.0290 *

Mars 86730-07-11 11:03 G 33398732.84 33398732.96 33398733.08 0.1931 0.1309

Jupiter 86733-03-08 00:00 G 33399703.38 33399703.50 33399703.63 0.0515 0.0353

Saturn 86736-05-31 21:22 G 33400884.31 33400884.39 33400884.49 0.0262 0.0190

Saturn 86736-08-28 07:27 G 33400972.69 33400972.81 33400972.94 0.0262 0.0088

Saturn 86736-11-24 17:46 G 33401061.10 33401061.24 33401061.37 0.0262 0.0016

Mars 86737-02-17 12:29 G 33401145.93 33401146.02 33401146.10 0.1599 0.1106

Saturn 86737-02-21 03:51 G 33401149.54 33401149.66 33401149.78 0.0261 0.0119

Saturn 86737-05-20 14:10 G 33401238.03 33401238.09 33401238.16 0.0261 0.0223

Jupiter 86738-10-28 06:29 G 33401763.65 33401763.77 33401763.89 0.0512 0.0217

Mars 86739-01-23 14:10 G 33401850.98 33401851.09 33401851.21 0.1608 0.0349

Jupiter 86739-01-25 12:00 G 33401852.96 33401853.00 33401853.06 0.0509 0.0466

Moon 86740-03-08 00:58 G 33402260.40 33402260.54 33402260.69 0.2700 0.0507

Earth 86740-03-08 01:12 G 33402260.41 33402260.55 33402260.69 0.2707 0.0442 *

Venus 86742-03-11 18:44 G 33402994.21 33402994.28 33402994.36 0.3625 0.2551

Moon 86742-09-08 14:53 G 33403175.03 33403175.12 33403175.21 0.2619 0.1671

Earth 86742-09-08 15:08 G 33403175.04 33403175.13 33403175.22 0.2625 0.1649 *

Jupiter 86745-03-25 05:46 G 33404103.62 33404103.74 33404103.86 0.0517 0.0380

Mars 86746-07-11 00:00 G 33404576.46 33404576.50 33404576.55 0.1598 0.1443

Venus 86747-09-25 10:05 G 33405017.82 33405017.92 33405018.02 0.3625 0.0362

Mars 86748-06-15 01:41 G 33405281.45 33405281.57 33405281.69 0.1606 0.0021

Earth 86749-09-01 12:29 G 33405724.95 33405725.02 33405725.09 0.2627 0.2115

Moon 86749-09-01 13:12 G 33405724.98 33405725.05 33405725.12 0.2630 0.2033 *

Mars 86750-05-21 04:34 G 33405986.65 33405986.69 33405986.73 0.1617 0.1495

Jupiter 86750-08-16 11:03 G 33406073.87 33406073.96 33406074.05 0.0512 0.0379

Jupiter 86750-11-13 16:34 G 33406163.09 33406163.19 33406163.30 0.0510 0.0303

Mars 86751-03-31 01:27 G 33406300.44 33406300.56 33406300.69 0.1924 0.1211

Saturn 86751-09-24 13:12 G 33406477.97 33406478.05 33406478.15 0.0299 0.0256

Saturn 86751-12-22 14:10 G 33406566.92 33406567.09 33406567.27 0.0300 0.0044

Neptune 86752-03-19 00:44 G 33406654.48 33406654.53 33406654.63 0.0090 0.0082

Saturn 86752-03-20 14:39 G 33406655.97 33406656.11 33406656.26 0.0300 0.0167

Neptune 86752-06-15 04:20 G 33406742.58 33406742.68 33406742.80 0.0090 0.0071

Neptune 86752-09-11 07:56 G 33406830.69 33406830.83 33406830.96 0.0090 0.0060

Neptune 86752-12-08 10:48 G 33406918.81 33406918.95 33406919.12 0.0090 0.0050

Neptune 86753-03-06 14:24 G 33407006.94 33407007.10 33407007.27 0.0090 0.0039

Moon 86753-03-11 03:51 G 33407011.62 33407011.66 33407011.69 0.2703 0.2623

Venus 86753-04-10 01:27 G 33407041.47 33407041.56 33407041.65 0.3625 0.1871

Neptune 86753-06-02 17:32 G 33407095.06 33407095.23 33407095.41 0.0090 0.0029

Neptune 86753-08-29 20:39 G 33407183.19 33407183.36 33407183.55 0.0090 0.0019

Neptune 86753-11-26 00:00 G 33407271.32 33407271.50 33407271.69 0.0090 0.0008

Neptune 86754-02-22 03:22 G 33407359.46 33407359.64 33407359.82 0.0090 0.0003

Neptune 86754-05-21 06:29 G 33407447.59 33407447.77 33407447.95 0.0090 0.0013

Neptune 86754-08-17 09:36 G 33407535.73 33407535.90 33407536.08 0.0090 0.0023

Neptune 86754-11-13 12:44 G 33407623.87 33407624.03 33407624.21 0.0090 0.0034

Neptune 86755-02-09 15:51 G 33407712.01 33407712.16 33407712.33 0.0090 0.0044

Neptune 86755-05-08 19:12 G 33407800.16 33407800.30 33407800.45 0.0090 0.0054

Neptune 86755-08-04 21:51 G 33407888.31 33407888.41 33407888.56 0.0090 0.0065

Neptune 86755-11-01 00:58 G 33407976.46 33407976.54 33407976.66 0.0090 0.0075

Neptune 86756-01-28 04:05 G 33408064.63 33408064.67 33408064.75 0.0090 0.0085

Jupiter 86757-01-11 03:08 G 33408413.46 33408413.63 33408413.80 0.0516 0.0137

Mars 86757-11-05 13:12 G 33408711.94 33408712.05 33408712.16 0.1604 0.0373

Mars 86759-10-11 15:36 G 33409417.07 33409417.15 33409417.24 0.1614 0.1116

Mars 86760-08-19 19:27 G 33409730.14 33409730.31 33409730.47 0.1928 0.0059

Jupiter 86762-09-01 21:22 G 33410473.26 33410473.39 33410473.51 0.0510 0.0144

Earth 86762-09-04 06:58 G 33410475.68 33410475.79 33410475.90 0.2626 0.0798

Moon 86762-09-04 07:41 G 33410475.70 33410475.82 33410475.93 0.2623 0.0731 *

Uranus 86763-02-23 22:34 G 33410648.40 33410648.44 33410648.50 0.0144 0.0133

Uranus 86763-05-23 02:39 G 33410736.53 33410736.61 33410736.70 0.0144 0.0110

Uranus 86763-08-19 06:29 G 33410824.66 33410824.77 33410824.88 0.0144 0.0088

Uranus 86763-11-15 10:20 G 33410912.81 33410912.93 33410913.05 0.0144 0.0065

Uranus 86764-02-11 14:10 G 33411000.96 33411001.09 33411001.22 0.0144 0.0042

Uranus 86764-05-09 18:00 G 33411089.12 33411089.25 33411089.39 0.0144 0.0020

Uranus 86764-08-05 21:51 G 33411177.28 33411177.41 33411177.55 0.0144 0.0006

Uranus 86764-11-02 01:56 G 33411265.44 33411265.58 33411265.71 0.0144 0.0026

Uranus 86765-01-29 05:46 G 33411353.61 33411353.74 33411353.87 0.0144 0.0049

Uranus 86765-04-27 09:36 G 33411441.79 33411441.90 33411442.03 0.0144 0.0073

Uranus 86765-07-24 13:41 G 33411529.97 33411530.07 33411530.18 0.0144 0.0096

Saturn 86765-10-18 23:32 G 33411616.42 33411616.48 33411616.55 0.0262 0.0226

Uranus 86765-10-20 17:46 G 33411618.16 33411618.24 33411618.32 0.0144 0.0119

Saturn 86766-01-15 09:36 G 33411704.78 33411704.90 33411705.02 0.0262 0.0124

Uranus 86766-01-16 21:36 G 33411706.39 33411706.40 33411706.42 0.0144 0.0142

Saturn 86766-04-13 19:41 G 33411793.19 33411793.32 33411793.46 0.0262 0.0022

Saturn 86766-07-11 05:46 G 33411881.62 33411881.74 33411881.87 0.0261 0.0082

Saturn 86766-10-07 16:05 G 33411970.08 33411970.17 33411970.27 0.0261 0.0186

Mars 86767-03-29 00:44 G 33412142.43 33412142.53 33412142.63 0.1601 0.0725

Venus 86768-05-05 15:08 G 33412546.00 33412546.13 33412546.26 0.3748 0.2046

Jupiter 86768-10-30 00:44 G 33412723.35 33412723.53 33412723.70 0.0516 0.0106

Mars 86769-03-03 02:53 G 33412847.52 33412847.62 33412847.73 0.1611 0.0746

Mars 86770-01-09 11:46 G 33413159.86 33413159.99 33413160.12 0.1931 0.1232

Earth 86773-03-06 03:36 G 33414311.53 33414311.65 33414311.77 0.2706 0.1567

Moon 86773-03-06 04:20 G 33414311.55 33414311.68 33414311.80 0.2701 0.1467 *

Jupiter 86774-06-21 01:41 G 33414783.44 33414783.57 33414783.70 0.0511 0.0025

Earth 86775-09-07 01:27 G 33415226.45 33415226.56 33415226.68 0.2626 0.0554

Moon 86775-09-07 01:56 G 33415226.46 33415226.58 33415226.69 0.2620 0.0648 *

Mars 86776-08-18 12:29 G 33415572.93 33415573.02 33415573.10 0.1600 0.1069

Mars 86778-07-24 14:10 G 33416277.98 33416278.09 33416278.21 0.1608 0.0382

Jupiter 86780-08-17 22:48 G 33417033.32 33417033.45 33417033.58 0.0515 0.0338

Saturn 86781-05-10 09:22 G 33417298.73 33417298.89 33417299.05 0.0299 0.0130

Saturn 86781-08-07 10:05 G 33417387.75 33417387.92 33417388.09 0.0300 0.0081

Saturn 86781-11-04 10:05 G 33417476.88 33417476.92 33417476.97 0.0300 0.0289

Mars 86786-01-09 00:00 G 33419003.45 33419003.50 33419003.55 0.1598 0.1410

Moon 86786-03-09 07:12 G 33419062.66 33419062.80 33419062.94 0.2700 0.0812

Earth 86786-03-09 07:27 G 33419062.67 33419062.81 33419062.94 0.2707 0.0909 *

Jupiter 86786-04-09 05:17 G 33419093.61 33419093.72 33419093.84 0.0512 0.0205

Jupiter 86786-07-07 11:03 G 33419182.92 33419182.96 33419183.01 0.0509 0.0478

Mars 86787-12-15 01:41 G 33419708.45 33419708.57 33419708.69 0.1606 0.0020

Moon 86788-09-08 19:56 G 33419977.24 33419977.33 33419977.41 0.2619 0.1805

Earth 86788-09-08 20:10 G 33419977.26 33419977.34 33419977.42 0.2625 0.1924 *

Mars 86789-11-19 04:34 G 33420413.66 33420413.69 33420413.73 0.1617 0.1531

Mars 86790-09-29 02:24 G 33420727.48 33420727.60 33420727.72 0.1923 0.1295

Jupiter 86792-09-04 05:32 G 33421433.63 33421433.73 33421433.83 0.0517 0.0414

Saturn 86795-03-08 02:24 G 33422348.57 33422348.60 33422348.63 0.0263 0.0255

Saturn 86795-06-04 12:29 G 33422436.91 33422437.02 33422437.13 0.0262 0.0153

Saturn 86795-08-31 22:34 G 33422525.31 33422525.44 33422525.57 0.0262 0.0051

Earth 86795-09-02 17:17 G 33422527.14 33422527.22 33422527.30 0.2627 0.1857

Moon 86795-09-02 18:00 G 33422527.17 33422527.25 33422527.34 0.2628 0.1741 *

Saturn 86795-11-28 08:39 G 33422613.73 33422613.86 33422613.99 0.0261 0.0052

Saturn 86796-02-24 18:58 G 33422702.18 33422702.29 33422702.40 0.0261 0.0156

Saturn 86796-05-23 05:17 G 33422790.72 33422790.72 33422790.72 0.0261 0.0261

Mars 86797-05-06 13:12 G 33423138.93 33423139.05 33423139.16 0.1603 0.0343

Jupiter 86798-01-26 09:51 G 33423403.82 33423403.91 33423403.99 0.0512 0.0372

Jupiter 86798-04-25 15:22 G 33423493.04 33423493.14 33423493.24 0.0510 0.0309

Venus 86798-10-16 16:05 G 33423667.08 33423667.17 33423667.26 0.3625 0.1740

Mars 86799-04-11 15:51 G 33423844.07 33423844.16 33423844.24 0.1614 0.1153

Mars 86800-02-18 19:41 G 33424157.16 33424157.32 33424157.48 0.1928 0.0089

Venus 86804-05-01 07:27 G 33425690.71 33425690.81 33425690.91 0.3625 0.0464

Jupiter 86804-06-23 02:39 G 33425743.44 33425743.61 33425743.78 0.0516 0.0165

Uranus 86805-03-13 02:39 G 33426006.53 33426006.61 33426006.70 0.0134 0.0119

Uranus 86805-06-09 09:08 G 33426094.76 33426094.88 33426095.03 0.0134 0.0094

Uranus 86805-09-05 16:05 G 33426183.01 33426183.17 33426183.33 0.0134 0.0067

Uranus 86805-12-02 22:34 G 33426271.27 33426271.44 33426271.62 0.0134 0.0042

Uranus 86806-03-01 05:17 G 33426359.54 33426359.72 33426359.90 0.0134 0.0017

Uranus 86806-05-28 11:46 G 33426447.81 33426447.99 33426448.18 0.0134 0.0009

Uranus 86806-08-24 18:15 G 33426536.09 33426536.26 33426536.44 0.0134 0.0033

Mars 86806-09-27 00:44 G 33426569.42 33426569.53 33426569.63 0.1601 0.0693

Uranus 86806-11-21 00:29 G 33426624.37 33426624.52 33426624.69 0.0134 0.0059

Uranus 86807-02-17 06:44 G 33426712.65 33426712.78 33426712.94 0.0134 0.0084

Uranus 86807-05-16 13:12 G 33426800.95 33426801.05 33426801.17 0.0134 0.0108

Uranus 86807-08-12 19:41 G 33426889.29 33426889.32 33426889.36 0.0134 0.0132

Mars 86808-09-01 02:53 G 33427274.52 33427274.62 33427274.73 0.1611 0.0776

Earth 86808-09-04 11:46 G 33427277.88 33427277.99 33427278.11 0.2626 0.0536

Moon 86808-09-04 12:29 G 33427277.91 33427278.02 33427278.14 0.2622 0.0442 *

Mars 86809-07-10 12:44 G 33427586.90 33427587.03 33427587.16 0.1932 0.1149

Venus 86809-11-14 22:48 G 33427714.38 33427714.45 33427714.52 0.3625 0.2701

Jupiter 86810-02-11 19:56 G 33427803.20 33427803.33 33427803.45 0.0511 0.0147

Saturn 86810-09-27 06:44 G 33428030.65 33428030.78 33428030.92 0.0300 0.0199

Saturn 86810-12-25 07:41 G 33428119.64 33428119.82 33428120.00 0.0300 0.0014

Saturn 86811-03-24 07:56 G 33428208.72 33428208.83 33428208.95 0.0300 0.0223

Pluto 86813-01-05 23:46 G 33428862.42 33428862.49 33428862.59 0.0082 0.0064

Pluto 86813-04-04 01:27 G 33428950.44 33428950.56 33428950.69 0.0082 0.0044

Pluto 86813-07-01 02:53 G 33429038.48 33429038.62 33429038.76 0.0082 0.0023

Pluto 86813-09-27 04:20 G 33429126.53 33429126.68 33429126.82 0.0082 0.0003

Pluto 86813-12-24 05:32 G 33429214.60 33429214.73 33429214.88 0.0082 0.0018

Pluto 86814-03-22 06:58 G 33429302.67 33429302.79 33429302.93 0.0082 0.0038

Pluto 86814-06-18 08:24 G 33429390.75 33429390.85 33429390.96 0.0081 0.0058

Pluto 86814-09-14 09:51 G 33429478.87 33429478.91 33429478.95 0.0081 0.0078

Mars 86816-02-17 12:29 G 33429999.93 33430000.02 33430000.10 0.1600 0.1038

Jupiter 86816-04-11 00:00 G 33430053.33 33430053.50 33430053.68 0.0515 0.0080

Mars 86818-01-22 14:10 G 33430704.98 33430705.09 33430705.21 0.1608 0.0411

Earth 86819-03-07 09:51 G 33431113.77 33431113.91 33431114.04 0.2706 0.1102

Moon 86819-03-07 10:05 G 33431113.79 33431113.92 33431114.06 0.2700 0.1019 *

Venus 86819-05-27 07:41 G 33431194.77 33431194.82 33431194.88 0.3748 0.3464

Moon 86821-09-07 06:29 G 33432028.66 33432028.77 33432028.89 0.2620 0.0813

Earth 86821-09-07 06:29 G 33432028.66 33432028.77 33432028.88 0.2626 0.0820 *

Jupiter 86821-12-01 00:44 G 33432113.39 33432113.53 33432113.66 0.0511 0.0021

Saturn 86824-10-21 14:24 G 33433169.01 33433169.10 33433169.19 0.0262 0.0190

Saturn 86825-01-18 00:29 G 33433257.39 33433257.52 33433257.65 0.0262 0.0088

Saturn 86825-04-16 10:34 G 33433345.81 33433345.94 33433346.08 0.0261 0.0015

Mars 86825-07-10 00:00 G 33433430.44 33433430.50 33433430.56 0.1598 0.1376

Saturn 86825-07-13 20:53 G 33433434.25 33433434.37 33433434.49 0.0261 0.0118

Saturn 86825-10-10 07:12 G 33433522.73 33433522.80 33433522.87 0.0261 0.0222

Mars 86827-06-15 01:41 G 33434135.45 33434135.57 33434135.69 0.1606 0.0051

Jupiter 86828-01-28 21:22 G 33434363.25 33434363.39 33434363.53 0.0515 0.0324

Mars 86829-05-20 04:34 G 33434840.66 33434840.69 33434840.72 0.1617 0.1566

Mars 86830-03-30 03:08 G 33435154.52 33435154.63 33435154.75 0.1923 0.1377

Moon 86832-03-09 13:12 G 33435864.92 33435865.05 33435865.18 0.2701 0.1350

Earth 86832-03-09 13:27 G 33435864.94 33435865.06 33435865.19 0.2707 0.1362 *

Neptune 86833-06-23 13:27 G 33436336.06 33436336.06 33436336.09 0.0088 0.0087

Jupiter 86833-09-19 05:17 G 33436423.59 33436423.72 33436423.84 0.0512 0.0175

Neptune 86833-09-19 14:53 G 33436424.08 33436424.12 33436424.19 0.0088 0.0080

Neptune 86833-12-16 16:20 G 33436512.11 33436512.18 33436512.27 0.0088 0.0073

Jupiter 86833-12-17 10:48 G 33436512.95 33436512.95 33436512.95 0.0509 0.0509

Neptune 86834-03-14 18:00 G 33436600.16 33436600.25 33436600.34 0.0088 0.0065

Neptune 86834-06-10 19:12 G 33436688.21 33436688.30 33436688.41 0.0088 0.0058

Neptune 86834-09-06 20:39 G 33436776.25 33436776.36 33436776.48 0.0088 0.0051

Moon 86834-09-10 00:44 G 33436779.47 33436779.53 33436779.59 0.2619 0.2206

Earth 86834-09-10 01:12 G 33436779.49 33436779.55 33436779.61 0.2625 0.2200 *

Neptune 86834-12-03 22:05 G 33436864.31 33436864.42 33436864.54 0.0088 0.0043

Neptune 86835-03-01 23:32 G 33436952.36 33436952.48 33436952.61 0.0088 0.0036

Neptune 86835-05-29 00:58 G 33437040.41 33437040.54 33437040.67 0.0088 0.0029

Neptune 86835-08-25 02:24 G 33437128.47 33437128.60 33437128.74 0.0088 0.0022

Neptune 86835-11-21 03:51 G 33437216.53 33437216.66 33437216.80 0.0088 0.0014

Neptune 86836-02-17 05:17 G 33437304.58 33437304.72 33437304.86 0.0088 0.0007

Neptune 86836-05-15 06:44 G 33437392.64 33437392.78 33437392.92 0.0088 0.0002

Neptune 86836-08-11 08:10 G 33437480.70 33437480.84 33437480.98 0.0088 0.0008

Mars 86836-11-04 13:12 G 33437565.93 33437566.05 33437566.16 0.1603 0.0310

Neptune 86836-11-07 09:36 G 33437568.77 33437568.90 33437569.04 0.0088 0.0015

Neptune 86837-02-03 11:03 G 33437656.83 33437656.96 33437657.10 0.0088 0.0023

Neptune 86837-05-02 12:29 G 33437744.90 33437745.02 33437745.16 0.0088 0.0030

Neptune 86837-07-29 13:56 G 33437832.96 33437833.08 33437833.21 0.0088 0.0037

Neptune 86837-10-25 15:22 G 33437921.03 33437921.14 33437921.27 0.0088 0.0045

Neptune 86838-01-21 17:03 G 33438009.10 33438009.21 33438009.32 0.0088 0.0052

Neptune 86838-04-19 18:15 G 33438097.17 33438097.26 33438097.37 0.0088 0.0060

Neptune 86838-07-16 19:56 G 33438185.25 33438185.33 33438185.42 0.0088 0.0067

Mars 86838-10-10 15:51 G 33438271.08 33438271.16 33438271.24 0.1614 0.1187

Neptune 86838-10-12 21:08 G 33438273.32 33438273.38 33438273.47 0.0088 0.0075

Neptune 86839-01-08 22:48 G 33438361.41 33438361.45 33438361.50 0.0088 0.0082

Mars 86839-08-19 20:39 G 33438584.20 33438584.36 33438584.53 0.1928 0.0179

Saturn 86840-02-14 01:12 G 33438762.51 33438762.55 33438762.60 0.0299 0.0289

Jupiter 86840-02-15 04:34 G 33438763.59 33438763.69 33438763.78 0.0517 0.0433

Saturn 86840-05-13 02:24 G 33438851.42 33438851.60 33438851.77 0.0300 0.0076

Saturn 86840-08-10 02:53 G 33438940.46 33438940.62 33438940.78 0.0300 0.0135

Earth 86841-09-02 22:20 G 33439329.34 33439329.43 33439329.52 0.2627 0.1595

Moon 86841-09-02 23:03 G 33439329.37 33439329.46 33439329.55 0.2626 0.1550 *

Jupiter 86845-07-08 08:53 G 33440733.78 33440733.87 33440733.96 0.0512 0.0357

Jupiter 86845-10-05 14:24 G 33440823.00 33440823.10 33440823.20 0.0510 0.0324

Mars 86846-03-28 00:44 G 33440996.42 33440996.53 33440996.63 0.1601 0.0658

Uranus 86847-03-16 05:32 G 33441349.68 33441349.73 33441349.79 0.0144 0.0129

Uranus 86847-06-12 09:22 G 33441437.80 33441437.89 33441437.98 0.0144 0.0107

Uranus 86847-09-08 12:58 G 33441525.94 33441526.04 33441526.16 0.0144 0.0085

Uranus 86847-12-05 17:03 G 33441614.09 33441614.21 33441614.33 0.0144 0.0062

Mars 86848-03-02 02:53 G 33441701.52 33441701.62 33441701.72 0.1611 0.0812

Uranus 86848-03-02 20:53 G 33441702.24 33441702.37 33441702.50 0.0144 0.0039

Uranus 86848-05-30 00:44 G 33441790.40 33441790.53 33441790.67 0.0144 0.0017

Uranus 86848-08-26 04:34 G 33441878.56 33441878.69 33441878.83 0.0144 0.0007

Uranus 86848-11-22 08:24 G 33441966.72 33441966.85 33441966.99 0.0144 0.0030

Mars 86849-01-08 13:27 G 33442013.92 33442014.06 33442014.20 0.1931 0.1068

Uranus 86849-02-18 12:15 G 33442054.89 33442055.01 33442055.15 0.0144 0.0053

Uranus 86849-05-17 16:20 G 33442143.07 33442143.18 33442143.30 0.0144 0.0076

Uranus 86849-08-13 20:24 G 33442231.25 33442231.35 33442231.45 0.0144 0.0099

Venus 86849-11-06 22:20 G 33442316.38 33442316.43 33442316.48 0.3625 0.3103

Uranus 86849-11-10 00:15 G 33442319.45 33442319.51 33442319.59 0.0144 0.0122

Jupiter 86851-12-04 02:39 G 33443073.45 33443073.61 33443073.77 0.0516 0.0202

Saturn 86854-03-10 17:17 G 33443901.15 33443901.22 33443901.29 0.0262 0.0221

Saturn 86854-06-07 03:08 G 33443989.51 33443989.63 33443989.75 0.0262 0.0119

Saturn 86854-09-03 13:12 G 33444077.92 33444078.05 33444078.19 0.0262 0.0017

Earth 86854-09-05 16:48 G 33444080.08 33444080.20 33444080.31 0.2626 0.0268

Moon 86854-09-05 17:32 G 33444080.11 33444080.23 33444080.34 0.2622 0.0196 *

Saturn 86854-11-30 23:32 G 33444166.35 33444166.48 33444166.60 0.0261 0.0087

Saturn 86855-02-27 09:36 G 33444254.81 33444254.90 33444255.00 0.0261 0.0191

Venus 86855-05-23 13:27 G 33444339.96 33444340.06 33444340.16 0.3625 0.0933

Mars 86855-08-18 12:15 G 33444426.92 33444427.01 33444427.10 0.1599 0.1005

Mars 86857-07-23 14:10 G 33445131.98 33445132.09 33445132.21 0.1608 0.0447

Jupiter 86857-07-24 18:44 G 33445133.15 33445133.28 33445133.40 0.0510 0.0156

Venus 86860-12-06 04:48 G 33446363.60 33446363.70 33446363.79 0.3625 0.1287

Jupiter 86863-09-21 23:46 G 33447383.31 33447383.49 33447383.66 0.0515 0.0048

Mars 86865-01-08 00:00 G 33447857.44 33447857.50 33447857.56 0.1598 0.1343

Earth 86865-03-07 16:05 G 33447916.02 33447916.17 33447916.31 0.2707 0.0631

Moon 86865-03-07 16:20 G 33447916.04 33447916.18 33447916.32 0.2699 0.0633 *

Venus 86866-06-21 20:10 G 33448387.32 33448387.34 33448387.36 0.3625 0.3522

Mars 86866-12-14 01:41 G 33448562.45 33448562.57 33448562.68 0.1606 0.0093

Moon 86867-09-08 11:17 G 33448830.87 33448830.97 33448831.08 0.2619 0.1101

Earth 86867-09-08 11:17 G 33448830.87 33448830.97 33448831.08 0.2626 0.1098 *

Mars 86868-11-18 04:34 G 33449267.68 33449267.69 33449267.70 0.1617 0.1597

Jupiter 86869-05-12 23:17 G 33449443.34 33449443.47 33449443.60 0.0511 0.0012

Mars 86869-09-28 03:51 G 33449581.55 33449581.66 33449581.76 0.1924 0.1438

Saturn 86869-09-29 23:17 G 33449583.32 33449583.47 33449583.63 0.0300 0.0148

Saturn 86869-12-28 00:15 G 33449672.33 33449672.51 33449672.68 0.0300 0.0065

Saturn 86870-03-27 00:29 G 33449761.45 33449761.52 33449761.59 0.0301 0.0273

Jupiter 86875-07-10 20:53 G 33451693.23 33451693.37 33451693.52 0.0514 0.0293

Venus 86876-01-01 09:51 G 33451867.76 33451867.91 33451868.06 0.3748 0.0784

Mars 86876-05-05 13:12 G 33451992.93 33451993.05 33451993.16 0.1603 0.0278

Moon 86878-03-10 18:58 G 33452667.18 33452667.29 33452667.41 0.2701 0.1725

Earth 86878-03-10 19:41 G 33452667.22 33452667.32 33452667.43 0.2707 0.1814 *

Mars 86878-04-10 15:36 G 33452698.07 33452698.15 33452698.23 0.1614 0.1216

Mars 86879-02-17 21:36 G 33453011.24 33453011.40 33453011.57 0.1928 0.0267

Moon 86880-09-10 05:46 G 33453581.69 33453581.74 33453581.78 0.2620 0.2365

Earth 86880-09-10 06:00 G 33453581.72 33453581.75 33453581.79 0.2625 0.2478 *

Jupiter 86881-03-01 04:05 G 33453753.54 33453753.67 33453753.79 0.0512 0.0165

Saturn 86883-07-28 19:12 G 33454633.28 33454633.30 33454633.32 0.0262 0.0257

Saturn 86883-10-25 05:03 G 33454721.61 33454721.71 33454721.82 0.0262 0.0156

Saturn 86884-01-21 15:08 G 33454810.00 33454810.13 33454810.27 0.0262 0.0054

Saturn 86884-04-19 01:27 G 33454898.42 33454898.56 33454898.69 0.0261 0.0050

Saturn 86884-07-16 11:32 G 33454986.87 33454986.98 33454987.09 0.0261 0.0153

Saturn 86884-10-12 21:51 G 33455075.39 33455075.41 33455075.43 0.0261 0.0257

Mars 86885-09-26 00:44 G 33455423.42 33455423.53 33455423.63 0.1601 0.0626

Jupiter 86887-07-28 03:08 G 33456093.55 33456093.63 33456093.72 0.0517 0.0449

Mars 86887-09-01 02:53 G 33456128.52 33456128.62 33456128.72 0.1611 0.0848

Earth 86887-09-04 03:08 G 33456131.54 33456131.63 33456131.73 0.2627 0.1335

Moon 86887-09-04 04:05 G 33456131.56 33456131.67 33456131.77 0.2625 0.1166 *

Mars 86888-07-09 14:24 G 33456440.96 33456441.10 33456441.24 0.1931 0.0983

Uranus 86889-04-02 09:08 G 33456707.80 33456707.88 33456707.99 0.0134 0.0114

Uranus 86889-06-29 16:05 G 33456796.03 33456796.17 33456796.31 0.0134 0.0087

Uranus 86889-09-25 22:34 G 33456884.29 33456884.44 33456884.61 0.0134 0.0062

Uranus 86889-12-23 05:17 G 33456972.55 33456972.72 33456972.90 0.0134 0.0037

Uranus 86890-03-21 12:00 G 33457060.81 33457061.00 33457061.18 0.0134 0.0011

Uranus 86890-06-17 18:29 G 33457149.09 33457149.27 33457149.45 0.0134 0.0014

Uranus 86890-09-14 00:44 G 33457237.36 33457237.53 33457237.71 0.0134 0.0039

Uranus 86890-12-11 07:27 G 33457325.65 33457325.81 33457325.97 0.0134 0.0064

Uranus 86891-03-09 13:27 G 33457413.94 33457414.06 33457414.21 0.0134 0.0089

Uranus 86891-06-05 20:10 G 33457502.24 33457502.34 33457502.43 0.0134 0.0113

Jupiter 86892-12-18 08:39 G 33458063.76 33458063.86 33458063.96 0.0512 0.0325

Jupiter 86893-03-17 14:10 G 33458153.00 33458153.09 33458153.19 0.0510 0.0356

Mars 86895-02-16 12:15 G 33458853.92 33458854.01 33458854.11 0.1599 0.0970

Mars 86897-01-21 14:10 G 33459558.98 33459559.09 33459559.21 0.1608 0.0479

Earth 86898-03-05 18:00 G 33459967.24 33459967.25 33459967.27 0.2706 0.2688

Moon 86898-03-05 18:58 G 33459967.27 33459967.29 33459967.32 0.2701 0.2656 *

Saturn 86899-02-16 17:46 G 33460315.13 33460315.24 33460315.35 0.0299 0.0240

Jupiter 86899-05-16 01:41 G 33460403.41 33460403.57 33460403.73 0.0516 0.0223

Saturn 86899-05-16 18:44 G 33460404.10 33460404.28 33460404.46 0.0300 0.0028

Saturn 86899-08-13 18:58 G 33460493.16 33460493.29 33460493.44 0.0300 0.0183

Earth 86900-09-06 21:51 G 33460882.29 33460882.41 33460882.52 0.2626 0.0086

Moon 86900-09-06 22:20 G 33460882.31 33460882.43 33460882.55 0.2622 0.0055 *

Mars 86904-07-10 00:00 G 33462284.43 33462284.50 33462284.56 0.1598 0.1311

Jupiter 86904-10-07 12:15 G 33462374.00 33462374.01 33462374.03 0.0513 0.0507

Jupiter 86905-01-04 17:46 G 33462463.12 33462463.24 33462463.37 0.0510 0.0172

Venus 86906-06-14 19:27 G 33462989.24 33462989.31 33462989.39 0.3625 0.2312

Mars 86906-06-15 01:41 G 33462989.45 33462989.57 33462989.69 0.1606 0.0119

Mars 86909-03-30 04:48 G 33464008.60 33464008.70 33464008.80 0.1923 0.1524

Jupiter 86911-03-04 23:46 G 33464713.31 33464713.49 33464713.67 0.0515 0.0009

Earth 86911-03-09 22:05 G 33464718.28 33464718.42 33464718.57 0.2707 0.0187

Moon 86911-03-09 22:34 G 33464718.29 33464718.44 33464718.58 0.2700 0.0111 *

Venus 86911-12-29 10:48 G 33465012.85 33465012.95 33465013.05 0.3625 0.0115

Saturn 86913-03-14 07:41 G 33465453.73 33465453.82 33465453.91 0.0262 0.0188

Saturn 86913-06-10 17:46 G 33465542.11 33465542.24 33465542.37 0.0262 0.0086

Saturn 86913-09-07 03:51 G 33465630.52 33465630.66 33465630.79 0.0262 0.0017

Moon 86913-09-09 16:20 G 33465633.08 33465633.18 33465633.28 0.2619 0.1357

Earth 86913-09-09 16:20 G 33465633.08 33465633.18 33465633.28 0.2626 0.1363 *

Saturn 86913-12-04 13:56 G 33465718.96 33465719.08 33465719.21 0.0261 0.0121

Saturn 86914-03-03 00:15 G 33465807.45 33465807.51 33465807.58 0.0261 0.0225

Mars 86915-11-05 12:58 G 33466419.93 33466420.04 33466420.16 0.1603 0.0246

Neptune 86916-09-17 20:39 G 33466737.32 33466737.36 33466737.42 0.0090 0.0086

Jupiter 86916-10-23 22:05 G 33466773.29 33466773.42 33466773.55 0.0511 0.0005

Neptune 86916-12-15 00:15 G 33466825.41 33466825.51 33466825.61 0.0090 0.0075

Neptune 86917-03-13 03:08 G 33466913.52 33466913.63 33466913.77 0.0090 0.0065

Neptune 86917-06-09 06:44 G 33467001.64 33467001.78 33467001.93 0.0090 0.0054

Venus 86917-07-14 02:10 G 33467036.51 33467036.59 33467036.67 0.3624 0.2108

Neptune 86917-09-05 09:51 G 33467089.76 33467089.91 33467090.08 0.0090 0.0044

Mars 86917-10-10 15:36 G 33467125.08 33467125.15 33467125.23 0.1614 0.1256

Neptune 86917-12-02 13:27 G 33467177.88 33467178.06 33467178.23 0.0090 0.0033

Neptune 86918-02-28 16:34 G 33467266.01 33467266.19 33467266.37 0.0090 0.0023

Neptune 86918-05-27 19:41 G 33467354.14 33467354.32 33467354.51 0.0090 0.0013

Mars 86918-08-19 22:05 G 33467438.26 33467438.42 33467438.58 0.1928 0.0329

Neptune 86918-08-23 23:03 G 33467442.28 33467442.46 33467442.64 0.0090 0.0002

Neptune 86918-11-20 02:10 G 33467530.41 33467530.59 33467530.78 0.0090 0.0009

Neptune 86919-02-16 05:17 G 33467618.55 33467618.72 33467618.91 0.0090 0.0019

Neptune 86919-05-15 08:39 G 33467706.69 33467706.86 33467707.03 0.0090 0.0029

Neptune 86919-08-11 11:32 G 33467794.83 33467794.98 33467795.16 0.0090 0.0040

Neptune 86919-11-07 14:39 G 33467882.97 33467883.11 33467883.28 0.0090 0.0050

Neptune 86920-02-03 18:00 G 33467971.12 33467971.25 33467971.39 0.0090 0.0060

Neptune 86920-05-01 21:08 G 33468059.27 33468059.38 33468059.50 0.0090 0.0070

Neptune 86920-07-29 00:29 G 33468147.44 33468147.52 33468147.60 0.0090 0.0080

Earth 86920-09-02 13:41 G 33468183.03 33468183.07 33468183.12 0.2627 0.2382

Moon 86920-09-02 14:24 G 33468183.04 33468183.10 33468183.16 0.2630 0.2247 *

Jupiter 86922-12-21 20:39 G 33469023.21 33469023.36 33469023.52 0.0515 0.0259

Moon 86924-03-12 00:58 G 33469469.45 33469469.54 33469469.63 0.2702 0.2113

Earth 86924-03-12 01:56 G 33469469.50 33469469.58 33469469.65 0.2707 0.2268 *

Mars 86925-03-28 00:29 G 33469850.41 33469850.52 33469850.63 0.1601 0.0595

Mars 86927-03-03 02:53 G 33470555.52 33470555.62 33470555.72 0.1611 0.0876

Mars 86928-01-09 15:08 G 33470867.98 33470868.13 33470868.28 0.1932 0.0907

Jupiter 86928-08-12 02:39 G 33471083.49 33471083.61 33471083.74 0.0512 0.0158

Saturn 86928-10-03 16:05 G 33471136.00 33471136.17 33471136.34 0.0300 0.0097

Saturn 86928-12-31 16:34 G 33471225.03 33471225.19 33471225.36 0.0300 0.0115

Uranus 86931-04-06 12:29 G 33472050.96 33472051.02 33472051.10 0.0144 0.0124

Uranus 86931-07-03 16:20 G 33472139.09 33472139.18 33472139.28 0.0144 0.0102

Uranus 86931-09-29 20:24 G 33472227.23 33472227.35 33472227.46 0.0144 0.0079

Uranus 86931-12-27 00:00 G 33472315.38 33472315.50 33472315.63 0.0144 0.0057

Uranus 86932-03-24 03:51 G 33472403.53 33472403.66 33472403.80 0.0144 0.0034

Uranus 86932-06-20 07:56 G 33472491.69 33472491.83 33472491.96 0.0144 0.0012

Venus 86932-08-08 12:00 G 33472540.87 33472541.00 33472541.13 0.3748 0.1878

Uranus 86932-09-16 11:46 G 33472579.85 33472579.99 33472580.12 0.0144 0.0012

Uranus 86932-12-13 15:36 G 33472668.02 33472668.15 33472668.28 0.0144 0.0034

Uranus 86933-03-11 19:27 G 33472756.19 33472756.31 33472756.44 0.0144 0.0058

Uranus 86933-06-07 23:17 G 33472844.37 33472844.47 33472844.59 0.0144 0.0081

Uranus 86933-09-04 03:22 G 33472932.55 33472932.64 33472932.74 0.0144 0.0104

Earth 86933-09-05 08:10 G 33472933.74 33472933.84 33472933.95 0.2626 0.1065

Moon 86933-09-05 08:53 G 33472933.77 33472933.87 33472933.98 0.2625 0.1035 *

Uranus 86933-12-01 07:27 G 33473020.75 33473020.81 33473020.87 0.0144 0.0127

Mars 86934-08-18 12:15 G 33473280.92 33473281.01 33473281.11 0.1599 0.0936

Jupiter 86934-10-09 17:46 G 33473333.22 33473333.24 33473333.28 0.0514 0.0506

Jupiter 86935-01-08 02:39 G 33473423.55 33473423.61 33473423.68 0.0517 0.0480

Mars 86936-07-23 14:10 G 33473985.98 33473986.09 33473986.20 0.1608 0.0512

Jupiter 86940-05-31 07:27 G 33475393.71 33475393.81 33475393.91 0.0512 0.0316

Jupiter 86940-08-28 12:58 G 33475482.95 33475483.04 33475483.14 0.0510 0.0366

Saturn 86942-08-01 09:51 G 33476185.84 33476185.91 33476185.98 0.0262 0.0224

Saturn 86942-10-28 19:56 G 33476274.21 33476274.33 33476274.44 0.0262 0.0122

Saturn 86943-01-25 05:46 G 33476362.61 33476362.74 33476362.88 0.0261 0.0021

Saturn 86943-04-23 16:05 G 33476451.04 33476451.17 33476451.30 0.0261 0.0084

Saturn 86943-07-21 02:10 G 33476539.50 33476539.59 33476539.69 0.0261 0.0188

Mars 86944-01-09 00:00 G 33476711.43 33476711.50 33476711.56 0.1598 0.1278

Earth 86944-03-07 00:15 G 33476769.43 33476769.51 33476769.59 0.2706 0.2223

Moon 86944-03-07 01:12 G 33476769.45 33476769.55 33476769.64 0.2700 0.2009 *

Mars 86945-12-14 01:41 G 33477416.45 33477416.57 33477416.69 0.1606 0.0154

Earth 86946-09-08 02:39 G 33477684.50 33477684.61 33477684.73 0.2626 0.0282

Moon 86946-09-08 03:08 G 33477684.51 33477684.63 33477684.74 0.2620 0.0377 *

Jupiter 86946-10-27 00:15 G 33477733.36 33477733.51 33477733.67 0.0516 0.0238

Mars 86948-09-28 05:32 G 33478435.64 33478435.73 33478435.82 0.1923 0.1600

Jupiter 86952-03-19 12:00 G 33479703.96 33479704.00 33479704.05 0.0513 0.0477

Jupiter 86952-06-16 17:32 G 33479793.11 33479793.23 33479793.35 0.0510 0.0204

Mars 86955-05-06 12:58 G 33480846.93 33480847.04 33480847.16 0.1603 0.0211

Moon 86957-03-10 04:34 G 33481520.54 33481520.69 33481520.83 0.2700 0.0234

Earth 86957-03-10 04:20 G 33481520.54 33481520.68 33481520.83 0.2707 0.0310 *

Mars 86957-04-10 15:36 G 33481552.08 33481552.15 33481552.22 0.1614 0.1287

Mars 86958-02-17 23:03 G 33481865.30 33481865.46 33481865.62 0.1928 0.0412

Saturn 86958-02-20 10:20 G 33481867.79 33481867.93 33481868.07 0.0299 0.0189

Saturn 86958-05-20 11:17 G 33481956.79 33481956.97 33481957.15 0.0300 0.0023

Jupiter 86958-08-14 22:48 G 33482043.27 33482043.45 33482043.62 0.0516 0.0015

Saturn 86958-08-17 11:46 G 33482045.88 33482045.99 33482046.10 0.0300 0.0232

Moon 86959-09-10 21:08 G 33482435.29 33482435.38 33482435.48 0.2619 0.1603

Earth 86959-09-10 21:22 G 33482435.30 33482435.39 33482435.48 0.2626 0.1643 *

Venus 86963-01-19 16:48 G 33483662.11 33483662.20 33483662.30 0.3624 0.1500

Jupiter 86964-04-04 21:08 G 33484103.25 33484103.38 33484103.52 0.0511 0.0028

Mars 86964-09-26 00:44 G 33484277.42 33484277.53 33484277.64 0.1601 0.0561

Mars 86966-09-01 02:53 G 33484982.52 33484982.62 33484982.72 0.1611 0.0914

Earth 86966-09-03 18:44 G 33484985.21 33484985.28 33484985.34 0.2627 0.2121

Moon 86966-09-03 19:27 G 33484985.24 33484985.31 33484985.38 0.2629 0.2075 *

Mars 86967-07-10 16:05 G 33485295.02 33485295.17 33485295.32 0.1931 0.0820

Venus 86968-08-04 08:10 G 33485685.74 33485685.84 33485685.94 0.3624 0.0713

Pluto 86968-12-28 23:17 G 33485832.40 33485832.47 33485832.57 0.0062 0.0054

Pluto 86969-03-27 00:29 G 33485920.41 33485920.52 33485920.66 0.0062 0.0043

Pluto 86969-06-23 01:27 G 33486008.43 33486008.56 33486008.72 0.0062 0.0033

Pluto 86969-09-19 02:39 G 33486096.45 33486096.61 33486096.78 0.0062 0.0022

Pluto 86969-12-16 03:36 G 33486184.49 33486184.65 33486184.83 0.0062 0.0012

Moon 86970-03-13 06:58 G 33486271.76 33486271.79 33486271.82 0.2702 0.2638

Pluto 86970-03-14 04:48 G 33486272.52 33486272.70 33486272.87 0.0062 0.0001

Jupiter 86970-06-02 20:39 G 33486353.20 33486353.36 33486353.52 0.0515 0.0223

Pluto 86970-06-10 05:32 G 33486360.57 33486360.73 33486360.91 0.0062 0.0010

Pluto 86970-09-06 06:44 G 33486448.62 33486448.78 33486448.95 0.0062 0.0020

Pluto 86970-12-03 07:56 G 33486536.68 33486536.83 33486536.98 0.0062 0.0031

Pluto 86971-03-01 08:39 G 33486624.74 33486624.86 33486625.00 0.0062 0.0041

Pluto 86971-05-28 09:22 G 33486712.82 33486712.89 33486713.01 0.0062 0.0052

Saturn 86971-12-19 12:15 G 33486917.99 33486918.01 33486918.03 0.0263 0.0257

Saturn 86972-03-16 22:05 G 33487006.32 33487006.42 33487006.53 0.0262 0.0156

Saturn 86972-06-13 08:24 G 33487094.71 33487094.85 33487094.98 0.0262 0.0053

Saturn 86972-09-09 18:29 G 33487183.14 33487183.27 33487183.40 0.0262 0.0051

Saturn 86972-12-07 04:48 G 33487271.59 33487271.70 33487271.80 0.0261 0.0155

Uranus 86973-01-25 09:22 G 33487320.87 33487320.89 33487320.93 0.0135 0.0133

Saturn 86973-03-05 14:53 G 33487360.11 33487360.12 33487360.14 0.0261 0.0259

Uranus 86973-04-23 16:05 G 33487409.07 33487409.17 33487409.29 0.0134 0.0107

Uranus 86973-07-20 22:48 G 33487497.31 33487497.45 33487497.61 0.0134 0.0081

Uranus 86973-10-17 05:32 G 33487585.57 33487585.73 33487585.90 0.0134 0.0056

Uranus 86974-01-13 12:00 G 33487673.83 33487674.00 33487674.19 0.0134 0.0031

Mars 86974-02-16 12:15 G 33487707.91 33487708.01 33487708.10 0.1599 0.0906

Venus 86974-02-17 23:32 G 33487709.42 33487709.48 33487709.54 0.3624 0.2938

Uranus 86974-04-11 18:44 G 33487762.10 33487762.28 33487762.47 0.0134 0.0005

Uranus 86974-07-09 01:12 G 33487850.37 33487850.55 33487850.74 0.0134 0.0021

Uranus 86974-10-05 07:41 G 33487938.65 33487938.82 33487939.00 0.0134 0.0045

Uranus 86975-01-01 13:56 G 33488026.94 33488027.08 33488027.25 0.0134 0.0071

Uranus 86975-03-30 20:24 G 33488115.23 33488115.35 33488115.49 0.0134 0.0095

Uranus 86975-06-27 02:39 G 33488203.54 33488203.61 33488203.70 0.0134 0.0119

Mars 86976-01-22 14:10 G 33488412.98 33488413.09 33488413.20 0.1608 0.0545

Jupiter 86976-01-23 01:27 G 33488413.44 33488413.56 33488413.69 0.0511 0.0149

Earth 86979-09-06 13:12 G 33489735.94 33489736.05 33489736.16 0.2626 0.0806

Moon 86979-09-06 13:56 G 33489735.96 33489736.08 33489736.19 0.2625 0.0641 *

Jupiter 86982-03-21 17:32 G 33490663.16 33490663.23 33490663.30 0.0514 0.0473

Jupiter 86982-06-20 02:10 G 33490753.58 33490753.59 33490753.62 0.0517 0.0512

Mars 86983-07-09 23:46 G 33491138.42 33491138.49 33491138.57 0.1598 0.1245

Venus 86983-08-30 04:34 G 33491189.66 33491189.69 33491189.72 0.3748 0.3645

Mars 86985-06-14 01:27 G 33491843.45 33491843.56 33491843.68 0.1605 0.0190

Saturn 86987-07-10 07:27 G 33492599.74 33492599.81 33492599.91 0.0299 0.0260

Saturn 86987-10-07 08:39 G 33492688.69 33492688.86 33492689.04 0.0300 0.0046

Jupiter 86987-11-11 06:00 G 33492723.65 33492723.75 33492723.85 0.0512 0.0311

Saturn 86988-01-04 09:22 G 33492777.74 33492777.89 33492778.04 0.0300 0.0166

Jupiter 86988-02-08 11:32 G 33492812.90 33492812.98 33492813.08 0.0510 0.0372

Mars 86988-03-29 06:15 G 33492862.68 33492862.76 33492862.84 0.1924 0.1668

Earth 86990-03-08 06:29 G 33493571.66 33493571.77 33493571.88 0.2706 0.1746

Moon 86990-03-08 07:27 G 33493571.69 33493571.81 33493571.92 0.2700 0.1737 *

Earth 86992-09-08 07:41 G 33494486.70 33494486.82 33494486.93 0.2626 0.0548

Moon 86992-09-08 07:56 G 33494486.71 33494486.83 33494486.94 0.2619 0.0514 *

Mars 86992-11-29 11:32 G 33494568.97 33494568.98 33494569.00 0.1596 0.1581

Jupiter 86994-04-07 23:46 G 33495063.34 33495063.49 33495063.64 0.0516 0.0268

Mars 86994-11-04 12:58 G 33495273.93 33495274.04 33495274.16 0.1603 0.0177

Mars 86996-10-09 15:36 G 33495979.09 33495979.15 33495979.22 0.1614 0.1319

Mars 86997-08-19 00:15 G 33496292.35 33496292.51 33496292.67 0.1928 0.0504

Neptune 86998-03-21 13:12 G 33496507.02 33496507.05 33496507.10 0.0088 0.0083

Neptune 86998-06-17 14:39 G 33496595.05 33496595.11 33496595.18 0.0088 0.0076

Neptune 86998-09-13 15:51 G 33496683.09 33496683.16 33496683.26 0.0088 0.0069

Neptune 86998-12-10 17:17 G 33496771.14 33496771.22 33496771.33 0.0088 0.0062

Neptune 86999-03-08 18:58 G 33496859.19 33496859.29 33496859.40 0.0088 0.0054

Neptune 86999-06-04 20:24 G 33496947.24 33496947.35 33496947.47 0.0088 0.0047

Jupiter 86999-08-30 10:48 G 33497033.90 33497033.95 33497034.00 0.0513 0.0470

Neptune 86999-08-31 21:36 G 33497035.29 33497035.40 33497035.53 0.0088 0.0040

Jupiter 86999-11-27 16:20 G 33497123.06 33497123.18 33497123.30 0.0510 0.0211

Neptune 86999-11-27 23:03 G 33497123.34 33497123.46 33497123.60 0.0088 0.0033

Neptune 87000-02-24 00:44 G 33497211.40 33497211.53 33497211.66 0.0088 0.0025

Neptune 87000-05-23 02:10 G 33497299.45 33497299.59 33497299.72 0.0088 0.0018

Neptune 87000-08-19 03:36 G 33497387.51 33497387.65 33497387.79 0.0088 0.0010

Neptune 87000-11-15 05:03 G 33497475.57 33497475.71 33497475.85 0.0088 0.0003

88TH MILLENNIUM CE

This is a list of transits of Mercury in the 88th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Neptune 87001-02-11 06:29 G 33497563.63 33497563.77 33497563.91 0.0088 0.0004

Neptune 87001-05-10 07:56 G 33497651.69 33497651.83 33497651.97 0.0088 0.0012

Saturn 87001-08-05 00:29 G 33497738.43 33497738.52 33497738.61 0.0262 0.0190

Neptune 87001-08-06 09:22 G 33497739.75 33497739.89 33497740.03 0.0088 0.0019

Saturn 87001-11-01 10:34 G 33497826.81 33497826.94 33497827.07 0.0262 0.0087

Neptune 87001-11-02 10:48 G 33497827.82 33497827.95 33497828.08 0.0088 0.0026

Saturn 87002-01-28 20:39 G 33497915.23 33497915.36 33497915.50 0.0261 0.0016

Neptune 87002-01-29 12:15 G 33497915.88 33497916.01 33497916.14 0.0088 0.0034

Saturn 87002-04-27 06:58 G 33498003.67 33498003.79 33498003.91 0.0261 0.0119

Neptune 87002-04-27 13:27 G 33498003.95 33498004.06 33498004.20 0.0088 0.0042

Neptune 87002-07-24 15:08 G 33498092.02 33498092.13 33498092.25 0.0088 0.0049

Saturn 87002-07-24 17:03 G 33498092.15 33498092.21 33498092.28 0.0261 0.0224 *

Neptune 87002-10-20 16:48 G 33498180.09 33498180.20 33498180.30 0.0088 0.0056

Neptune 87003-01-16 18:00 G 33498268.16 33498268.25 33498268.35 0.0088 0.0064

Moon 87003-03-12 10:05 G 33498322.78 33498322.92 33498323.06 0.2700 0.0802

Earth 87003-03-12 10:34 G 33498322.80 33498322.94 33498323.08 0.2707 0.0751 *

Neptune 87003-04-14 19:41 G 33498356.24 33498356.32 33498356.40 0.0088 0.0071

Neptune 87003-07-11 20:53 G 33498444.32 33498444.37 33498444.44 0.0088 0.0079

Neptune 87003-10-07 22:34 G 33498532.42 33498532.44 33498532.47 0.0088 0.0086

Mars 87004-03-28 00:29 G 33498704.41 33498704.52 33498704.63 0.1601 0.0527

Moon 87005-09-12 01:56 G 33499237.51 33499237.58 33499237.66 0.2620 0.1922

Earth 87005-09-12 02:10 G 33499237.52 33499237.59 33499237.67 0.2626 0.1922 *

Jupiter 87006-01-25 21:08 G 33499373.21 33499373.38 33499373.56 0.0515 0.0025

Mars 87006-03-03 02:53 G 33499409.53 33499409.62 33499409.72 0.1611 0.0948

Mars 87007-01-09 16:48 G 33499722.04 33499722.20 33499722.35 0.1932 0.0744

Jupiter 87011-09-16 20:53 G 33501433.24 33501433.37 33501433.50 0.0511 0.0049

Earth 87012-09-04 23:32 G 33501787.40 33501787.48 33501787.56 0.2627 0.1864

Moon 87012-09-05 00:29 G 33501787.43 33501787.52 33501787.60 0.2628 0.1733 *

Mars 87013-08-18 12:15 G 33502134.91 33502135.01 33502135.11 0.1599 0.0869

Venus 87014-02-10 23:03 G 33502311.40 33502311.46 33502311.52 0.3624 0.2852

Uranus 87015-01-29 16:20 G 33502664.16 33502664.18 33502664.22 0.0144 0.0139

Uranus 87015-04-27 20:10 G 33502752.27 33502752.34 33502752.42 0.0144 0.0116

Mars 87015-07-24 14:10 G 33502839.98 33502840.09 33502840.20 0.1608 0.0580

Uranus 87015-07-24 23:46 G 33502840.40 33502840.49 33502840.60 0.0144 0.0095

Uranus 87015-10-21 03:51 G 33502928.54 33502928.66 33502928.78 0.0144 0.0072

Uranus 87016-01-17 07:27 G 33503016.69 33503016.81 33503016.95 0.0144 0.0050

Uranus 87016-04-14 11:32 G 33503104.84 33503104.98 33503105.11 0.0144 0.0027

Uranus 87016-07-11 15:22 G 33503193.00 33503193.14 33503193.27 0.0144 0.0004

Uranus 87016-10-07 19:12 G 33503281.16 33503281.30 33503281.44 0.0144 0.0019

Uranus 87017-01-03 23:03 G 33503369.33 33503369.46 33503369.59 0.0144 0.0042

Saturn 87017-02-24 03:36 G 33503420.49 33503420.65 33503420.81 0.0299 0.0134

Uranus 87017-04-02 02:53 G 33503457.50 33503457.62 33503457.75 0.0144 0.0065

Saturn 87017-05-24 04:20 G 33503509.51 33503509.68 33503509.86 0.0300 0.0078

Uranus 87017-06-29 06:58 G 33503545.68 33503545.79 33503545.90 0.0144 0.0088

Saturn 87017-08-21 04:34 G 33503598.65 33503598.69 33503598.75 0.0300 0.0287

Uranus 87017-09-25 10:48 G 33503633.87 33503633.95 33503634.04 0.0144 0.0111

Jupiter 87017-11-13 19:27 G 33503683.14 33503683.31 33503683.47 0.0515 0.0207

Uranus 87017-12-22 14:39 G 33503722.08 33503722.11 33503722.17 0.0144 0.0135

Venus 87019-08-27 14:10 G 33504334.99 33504335.09 33504335.20 0.3624 0.0692

Mars 87023-01-08 23:46 G 33505565.42 33505565.49 33505565.57 0.1598 0.1213

Jupiter 87023-07-06 00:29 G 33505743.40 33505743.52 33505743.65 0.0511 0.0133

Mars 87024-12-14 01:41 G 33506270.45 33506270.57 33506270.68 0.1605 0.0223

Venus 87025-03-12 05:32 G 33506358.64 33506358.73 33506358.82 0.3624 0.1538

Earth 87025-09-07 18:00 G 33506538.14 33506538.25 33506538.36 0.2626 0.0537

Moon 87025-09-07 18:44 G 33506538.16 33506538.28 33506538.39 0.2623 0.0511 *

Mars 87027-09-29 07:12 G 33507289.73 33507289.80 33507289.86 0.1924 0.1749

Jupiter 87029-09-01 17:03 G 33507993.13 33507993.21 33507993.30 0.0514 0.0443

Saturn 87030-12-23 03:08 G 33508470.56 33508470.63 33508470.70 0.0263 0.0223

Saturn 87031-03-21 12:58 G 33508558.93 33508559.04 33508559.16 0.0262 0.0121

Saturn 87031-06-17 23:03 G 33508647.33 33508647.46 33508647.60 0.0262 0.0020

Saturn 87031-09-14 09:22 G 33508735.76 33508735.89 33508736.02 0.0262 0.0086

Saturn 87031-12-11 19:41 G 33508824.22 33508824.32 33508824.41 0.0261 0.0191

Mars 87032-05-31 11:32 G 33508995.96 33508995.98 33508996.01 0.1596 0.1549

Mars 87034-05-06 12:58 G 33509700.92 33509701.04 33509701.16 0.1603 0.0142

Jupiter 87035-04-24 04:48 G 33510053.60 33510053.70 33510053.81 0.0512 0.0302

Jupiter 87035-07-22 10:34 G 33510142.85 33510142.94 33510143.02 0.0509 0.0380

Earth 87036-03-09 12:44 G 33510373.91 33510374.03 33510374.16 0.2706 0.1271

Moon 87036-03-09 13:27 G 33510373.93 33510374.06 33510374.20 0.2700 0.1099 *

Mars 87036-04-10 15:36 G 33510406.09 33510406.15 33510406.22 0.1613 0.1355

Mars 87037-02-18 00:29 G 33510719.36 33510719.52 33510719.68 0.1928 0.0560

Earth 87038-09-10 12:29 G 33511288.91 33511289.02 33511289.13 0.2626 0.0819

Moon 87038-09-10 12:44 G 33511288.92 33511289.03 33511289.14 0.2619 0.0912 *

Venus 87040-04-06 06:44 G 33511862.63 33511862.78 33511862.93 0.3748 0.0921

Jupiter 87041-09-18 23:17 G 33512393.32 33512393.47 33512393.61 0.0516 0.0296

Mars 87043-09-27 00:29 G 33513131.41 33513131.52 33513131.63 0.1601 0.0492

Mars 87045-09-01 02:53 G 33513836.52 33513836.62 33513836.71 0.1611 0.0979

Mars 87046-07-10 17:46 G 33514149.08 33514149.24 33514149.39 0.1932 0.0658

Saturn 87046-07-14 01:27 G 33514152.43 33514152.56 33514152.70 0.0299 0.0199

Saturn 87046-10-11 02:39 G 33514241.43 33514241.61 33514241.79 0.0300 0.0016

Saturn 87047-01-08 02:53 G 33514330.51 33514330.62 33514330.74 0.0300 0.0225

Jupiter 87047-02-10 09:22 G 33514363.84 33514363.89 33514363.94 0.0513 0.0466

Jupiter 87047-05-10 14:53 G 33514453.00 33514453.12 33514453.24 0.0510 0.0215

Moon 87049-03-12 16:05 G 33515125.04 33515125.17 33515125.31 0.2700 0.1048

Earth 87049-03-12 16:48 G 33515125.07 33515125.20 33515125.33 0.2707 0.1218 *

Moon 87051-09-13 06:44 G 33516039.71 33516039.78 33516039.85 0.2620 0.2076

Earth 87051-09-13 07:12 G 33516039.74 33516039.80 33516039.86 0.2625 0.2196 *

Mars 87053-02-16 12:15 G 33516561.91 33516562.01 33516562.11 0.1599 0.0838

Jupiter 87053-07-07 20:24 G 33516703.18 33516703.35 33516703.53 0.0515 0.0051

Mars 87055-01-22 14:10 G 33517266.98 33517267.09 33517267.20 0.1608 0.0613

Mars 87055-11-30 10:05 G 33517578.91 33517578.92 33517578.94 0.1935 0.1919

Uranus 87057-02-15 16:05 G 33518022.12 33518022.17 33518022.25 0.0134 0.0127

Uranus 87057-05-14 22:48 G 33518110.34 33518110.45 33518110.59 0.0134 0.0101

Uranus 87057-08-11 05:46 G 33518198.59 33518198.74 33518198.90 0.0134 0.0075

Uranus 87057-11-07 12:15 G 33518286.85 33518287.01 33518287.19 0.0134 0.0050

Uranus 87058-02-03 18:58 G 33518375.11 33518375.29 33518375.48 0.0134 0.0024

Uranus 87058-05-03 01:41 G 33518463.38 33518463.57 33518463.75 0.0134 0.0003

Uranus 87058-07-30 08:10 G 33518551.66 33518551.84 33518552.02 0.0134 0.0026

Earth 87058-09-06 04:34 G 33518589.60 33518589.69 33518589.78 0.2627 0.1599

Moon 87058-09-06 05:17 G 33518589.63 33518589.72 33518589.81 0.2628 0.1521 *

Uranus 87058-10-26 14:24 G 33518639.94 33518640.10 33518640.28 0.0134 0.0052

Uranus 87059-01-22 20:53 G 33518728.23 33518728.37 33518728.53 0.0134 0.0076

Jupiter 87059-02-26 19:27 G 33518763.18 33518763.31 33518763.44 0.0511 0.0053

Uranus 87059-04-21 03:22 G 33518816.52 33518816.64 33518816.76 0.0134 0.0101

Uranus 87059-07-18 09:22 G 33518904.84 33518904.89 33518904.97 0.0134 0.0126

Saturn 87060-05-11 05:32 G 33519202.70 33519202.73 33519202.76 0.0263 0.0255

Saturn 87060-08-07 15:22 G 33519291.04 33519291.14 33519291.26 0.0262 0.0154

Saturn 87060-11-04 01:41 G 33519379.43 33519379.57 33519379.70 0.0262 0.0050

Saturn 87061-01-31 11:46 G 33519467.86 33519467.99 33519468.12 0.0261 0.0053

Pluto 87061-02-03 07:12 G 33519470.73 33519470.80 33519470.89 0.0082 0.0069

Saturn 87061-04-29 21:51 G 33519556.31 33519556.41 33519556.52 0.0261 0.0158

Pluto 87061-05-02 08:39 G 33519558.75 33519558.86 33519558.99 0.0082 0.0048

Pluto 87061-07-29 10:20 G 33519646.79 33519646.93 33519647.06 0.0082 0.0027

Pluto 87061-10-25 11:32 G 33519734.84 33519734.98 33519735.13 0.0082 0.0008

Pluto 87062-01-21 12:58 G 33519822.90 33519823.04 33519823.19 0.0082 0.0013

Pluto 87062-04-19 14:10 G 33519910.97 33519911.09 33519911.23 0.0082 0.0034

Mars 87062-07-09 23:46 G 33519992.41 33519992.49 33519992.57 0.1598 0.1178

Pluto 87062-07-16 15:36 G 33519999.05 33519999.15 33519999.27 0.0082 0.0054

Pluto 87062-10-12 17:03 G 33520087.16 33520087.21 33520087.28 0.0081 0.0074

Mars 87064-06-14 01:27 G 33520697.45 33520697.56 33520697.68 0.1606 0.0260

Jupiter 87065-04-25 17:32 G 33521013.07 33521013.23 33521013.40 0.0515 0.0200

Mars 87067-03-30 07:56 G 33521716.78 33521716.83 33521716.88 0.1923 0.1826

Venus 87070-09-17 20:24 G 33522984.27 33522984.35 33522984.43 0.3624 0.2044

Jupiter 87070-12-16 00:00 G 33523073.37 33523073.50 33523073.63 0.0512 0.0110

Earth 87071-09-08 23:03 G 33523340.34 33523340.46 33523340.57 0.2626 0.0281

Moon 87071-09-08 23:32 G 33523340.36 33523340.48 33523340.60 0.2622 0.0157 *

Mars 87071-11-30 11:32 G 33523422.95 33523422.98 33523423.02 0.1596 0.1514

Mars 87073-11-04 12:58 G 33524127.92 33524128.04 33524128.16 0.1603 0.0107

Mars 87075-10-10 15:36 G 33524833.10 33524833.15 33524833.21 0.1614 0.1389

Saturn 87075-11-30 20:53 G 33524884.32 33524884.37 33524884.43 0.0299 0.0282

Saturn 87076-02-27 22:05 G 33524973.24 33524973.42 33524973.59 0.0299 0.0069

Venus 87076-04-02 11:32 G 33525007.88 33525007.98 33525008.09 0.3624 0.0203

Saturn 87076-05-26 22:34 G 33525062.29 33525062.44 33525062.60 0.0300 0.0142

Mars 87076-08-19 01:27 G 33525146.41 33525146.56 33525146.72 0.1928 0.0651

Jupiter 87077-02-11 15:22 G 33525323.05 33525323.14 33525323.24 0.0514 0.0434

Neptune 87081-06-15 19:27 G 33526908.24 33526908.31 33526908.41 0.0090 0.0080

Neptune 87081-09-11 22:34 G 33526996.35 33526996.44 33526996.58 0.0090 0.0070

Venus 87081-10-17 02:53 G 33527031.54 33527031.62 33527031.70 0.3624 0.2359

Neptune 87081-12-09 02:10 G 33527084.46 33527084.59 33527084.74 0.0090 0.0059

Neptune 87082-03-07 05:46 G 33527172.58 33527172.74 33527172.89 0.0090 0.0048

Earth 87082-03-10 18:58 G 33527176.16 33527176.29 33527176.43 0.2706 0.0800

Moon 87082-03-10 19:27 G 33527176.17 33527176.31 33527176.45 0.2700 0.0795 *

Neptune 87082-06-03 08:53 G 33527260.71 33527260.87 33527261.04 0.0090 0.0038

Neptune 87082-08-30 12:15 G 33527348.84 33527349.01 33527349.19 0.0090 0.0027

Jupiter 87082-10-04 03:51 G 33527383.56 33527383.66 33527383.77 0.0512 0.0288

Neptune 87082-11-26 15:22 G 33527436.97 33527437.14 33527437.33 0.0090 0.0017

Jupiter 87083-01-01 09:22 G 33527472.81 33527472.89 33527472.97 0.0509 0.0392

Neptune 87083-02-22 18:44 G 33527525.10 33527525.28 33527525.46 0.0090 0.0006

Mars 87083-03-28 00:29 G 33527558.41 33527558.52 33527558.63 0.1601 0.0459

Neptune 87083-05-21 21:51 G 33527613.23 33527613.41 33527613.60 0.0090 0.0005

Neptune 87083-08-18 00:58 G 33527701.37 33527701.54 33527701.73 0.0090 0.0015

Neptune 87083-11-14 04:20 G 33527789.51 33527789.68 33527789.86 0.0090 0.0025

Neptune 87084-02-10 07:41 G 33527877.65 33527877.82 33527877.98 0.0090 0.0035

Neptune 87084-05-08 10:20 G 33527965.79 33527965.93 33527966.10 0.0090 0.0046

Neptune 87084-08-04 13:41 G 33528053.94 33528054.07 33528054.22 0.0090 0.0056

Earth 87084-09-10 17:32 G 33528091.12 33528091.23 33528091.33 0.2626 0.1088

Moon 87084-09-10 17:32 G 33528091.13 33528091.23 33528091.34 0.2619 0.1047 *

Neptune 87084-10-31 16:48 G 33528142.09 33528142.20 33528142.33 0.0090 0.0066

Neptune 87085-01-27 19:56 G 33528230.25 33528230.33 33528230.44 0.0090 0.0076

Mars 87085-03-02 02:53 G 33528263.53 33528263.62 33528263.71 0.1611 0.1015

Neptune 87085-04-25 23:17 G 33528318.43 33528318.47 33528318.52 0.0090 0.0086

Mars 87086-01-08 18:29 G 33528576.11 33528576.27 33528576.43 0.1932 0.0581

Jupiter 87089-02-28 22:20 G 33529723.30 33529723.43 33529723.57 0.0516 0.0321

Saturn 87089-12-25 18:00 G 33530023.16 33530023.25 33530023.35 0.0263 0.0186

Saturn 87090-03-24 04:05 G 33530111.54 33530111.67 33530111.80 0.0263 0.0083

Saturn 87090-06-20 14:10 G 33530199.96 33530200.09 33530200.23 0.0262 0.0022

Saturn 87090-09-17 00:29 G 33530288.40 33530288.52 33530288.64 0.0262 0.0125

Saturn 87090-12-14 10:34 G 33530376.89 33530376.94 33530377.01 0.0262 0.0231

Moon 87091-09-04 15:36 G 33530641.13 33530641.15 33530641.18 0.2631 0.2535

Mars 87092-08-17 12:00 G 33530988.90 33530989.00 33530989.11 0.1599 0.0808

Jupiter 87094-07-23 08:10 G 33531693.78 33531693.84 33531693.90 0.0512 0.0457

Mars 87094-07-23 14:10 G 33531693.98 33531694.09 33531694.20 0.1608 0.0646

Jupiter 87094-10-20 13:27 G 33531782.95 33531783.06 33531783.18 0.0510 0.0222

Moon 87095-03-13 22:20 G 33531927.31 33531927.43 33531927.54 0.2700 0.1686

Earth 87095-03-13 22:48 G 33531927.34 33531927.45 33531927.57 0.2707 0.1679 *

Mars 87095-05-31 10:48 G 33532005.90 33532005.95 33532005.99 0.1935 0.1849

Venus 87096-11-11 08:53 G 33532535.73 33532535.87 33532536.00 0.3748 0.1712

Moon 87097-09-13 11:46 G 33532841.95 33532841.99 33532842.02 0.2620 0.2463

Earth 87097-09-13 12:15 G 33532841.97 33532842.01 33532842.05 0.2625 0.2472 *

Uranus 87099-02-19 00:00 G 33533365.45 33533365.50 33533365.56 0.0144 0.0131

Uranus 87099-05-18 03:51 G 33533453.58 33533453.66 33533453.75 0.0144 0.0109

Uranus 87099-08-14 07:27 G 33533541.71 33533541.81 33533541.93 0.0144 0.0087

Uranus 87099-11-10 11:32 G 33533629.86 33533629.98 33533630.10 0.0144 0.0064

Uranus 87100-02-06 15:22 G 33533718.01 33533718.14 33533718.27 0.0144 0.0042

Uranus 87100-05-05 19:12 G 33533806.16 33533806.30 33533806.43 0.0144 0.0019

Uranus 87100-08-01 23:03 G 33533894.32 33533894.46 33533894.60 0.0144 0.0004

Uranus 87100-10-29 02:53 G 33533982.49 33533982.62 33533982.76 0.0144 0.0027

Jupiter 87100-12-18 19:27 G 33534033.14 33534033.31 33534033.49 0.0515 0.0070

Uranus 87101-01-25 06:44 G 33534070.65 33534070.78 33534070.91 0.0144 0.0050

Uranus 87101-04-23 10:34 G 33534158.83 33534158.94 33534159.07 0.0144 0.0073

Uranus 87101-07-20 14:39 G 33534247.01 33534247.11 33534247.21 0.0144 0.0096

Uranus 87101-10-16 18:29 G 33534335.20 33534335.27 33534335.35 0.0144 0.0120

Mars 87102-01-08 23:46 G 33534419.41 33534419.49 33534419.57 0.1598 0.1145

Uranus 87102-01-12 22:20 G 33534423.43 33534423.43 33534423.46 0.0144 0.0143

Mars 87103-12-15 01:27 G 33535124.45 33535124.56 33535124.68 0.1605 0.0282

Earth 87104-09-07 09:22 G 33535391.79 33535391.89 33535391.99 0.2627 0.1341

Moon 87104-09-07 10:05 G 33535391.82 33535391.92 33535392.03 0.2627 0.1242 *

Saturn 87105-07-17 20:39 G 33535705.20 33535705.36 33535705.53 0.0299 0.0128

Saturn 87105-10-14 21:22 G 33535794.22 33535794.39 33535794.57 0.0300 0.0085

Saturn 87106-01-11 21:36 G 33535883.37 33535883.40 33535883.44 0.0300 0.0293

Jupiter 87106-08-09 17:46 G 33536093.11 33536093.24 33536093.37 0.0511 0.0056

Mars 87106-09-29 08:24 G 33536143.83 33536143.85 33536143.88 0.1924 0.1892

Mars 87111-06-01 11:32 G 33537849.94 33537849.98 33537850.02 0.1596 0.1482

Jupiter 87112-10-06 16:34 G 33538343.02 33538343.19 33538343.36 0.0515 0.0179

Mars 87113-05-06 12:58 G 33538554.92 33538555.04 33538555.16 0.1603 0.0072

Moon 87115-03-09 22:05 G 33539227.42 33539227.42 33539227.43 0.2701 0.2695

Mars 87115-04-11 15:36 G 33539260.10 33539260.15 33539260.21 0.1613 0.1420

Mars 87116-02-19 02:39 G 33539573.45 33539573.61 33539573.76 0.1928 0.0737

Earth 87117-09-10 03:51 G 33540142.55 33540142.66 33540142.78 0.2626 0.0023

Moon 87117-09-10 04:20 G 33540142.57 33540142.68 33540142.80 0.2621 0.0066 *

Jupiter 87118-05-28 22:20 G 33540403.31 33540403.43 33540403.56 0.0512 0.0110

Saturn 87119-05-15 20:53 G 33540755.30 33540755.37 33540755.45 0.0263 0.0215

Saturn 87119-08-12 06:58 G 33540843.67 33540843.79 33540843.91 0.0262 0.0112

Saturn 87119-11-08 17:03 G 33540932.08 33540932.21 33540932.35 0.0262 0.0009

Saturn 87120-02-05 03:08 G 33541020.51 33541020.63 33541020.76 0.0262 0.0096

Saturn 87120-05-03 13:27 G 33541108.98 33541109.06 33541109.15 0.0261 0.0200

Venus 87121-10-10 02:39 G 33541633.57 33541633.61 33541633.64 0.3624 0.3400

Mars 87122-09-27 00:29 G 33541985.41 33541985.52 33541985.63 0.1601 0.0425

Jupiter 87124-07-25 13:12 G 33542652.96 33542653.05 33542653.15 0.0514 0.0431

Mars 87124-09-01 02:53 G 33542690.53 33542690.62 33542690.71 0.1611 0.1049

Mars 87125-07-10 19:12 G 33543003.15 33543003.30 33543003.46 0.1932 0.0499

Venus 87127-04-25 17:46 G 33543657.14 33543657.24 33543657.33 0.3624 0.1241

Moon 87128-03-12 01:27 G 33543978.41 33543978.56 33543978.70 0.2700 0.0308

Earth 87128-03-12 01:27 G 33543978.41 33543978.56 33543978.70 0.2707 0.0332 *

Jupiter 87130-03-17 02:53 G 33544713.52 33544713.62 33544713.73 0.0512 0.0273

Jupiter 87130-06-14 08:39 G 33544802.78 33544802.86 33544802.93 0.0510 0.0410

Moon 87130-09-12 22:20 G 33544893.34 33544893.43 33544893.53 0.2620 0.1407

Earth 87130-09-12 22:34 G 33544893.34 33544893.44 33544893.53 0.2626 0.1365 *

Mars 87132-02-17 12:00 G 33545415.90 33545416.00 33545416.11 0.1599 0.0773

Venus 87132-11-08 08:53 G 33545680.77 33545680.87 33545680.97 0.3624 0.0970

Mars 87134-01-22 14:10 G 33546120.98 33546121.09 33546121.20 0.1608 0.0680

Mars 87134-11-30 11:46 G 33546432.93 33546432.99 33546433.06 0.1935 0.1759

Saturn 87134-12-04 17:03 G 33546437.08 33546437.21 33546437.34 0.0299 0.0204

Saturn 87135-03-03 18:00 G 33546526.07 33546526.25 33546526.43 0.0299 0.0010

Saturn 87135-05-31 18:15 G 33546615.15 33546615.26 33546615.39 0.0300 0.0219

Jupiter 87136-08-11 20:24 G 33547053.22 33547053.35 33547053.49 0.0516 0.0323

Earth 87137-09-05 19:56 G 33547443.29 33547443.33 33547443.38 0.2627 0.2390

Moon 87137-09-05 20:39 G 33547443.32 33547443.36 33547443.41 0.2631 0.2363 *

Venus 87138-05-25 00:15 G 33547704.46 33547704.51 33547704.56 0.3624 0.3175

Uranus 87141-03-08 23:32 G 33548723.40 33548723.48 33548723.57 0.0134 0.0119

Moon 87141-03-15 04:20 G 33548729.58 33548729.68 33548729.78 0.2701 0.1970

Earth 87141-03-15 05:03 G 33548729.62 33548729.71 33548729.80 0.2707 0.2139 *

Uranus 87141-06-05 06:15 G 33548811.63 33548811.76 33548811.90 0.0134 0.0093

Mars 87141-07-09 23:46 G 33548846.41 33548846.49 33548846.57 0.1597 0.1113

Uranus 87141-09-01 12:44 G 33548899.88 33548900.03 33548900.20 0.0134 0.0068

Uranus 87141-11-28 19:41 G 33548988.14 33548988.32 33548988.49 0.0134 0.0042

Jupiter 87142-01-03 06:58 G 33549023.73 33549023.79 33549023.85 0.0512 0.0448

Uranus 87142-02-25 02:10 G 33549076.41 33549076.59 33549076.77 0.0134 0.0017

Jupiter 87142-04-02 12:15 G 33549112.90 33549113.01 33549113.13 0.0510 0.0230

Uranus 87142-05-24 08:39 G 33549164.68 33549164.86 33549165.05 0.0134 0.0009

Uranus 87142-08-20 15:08 G 33549252.96 33549253.13 33549253.31 0.0134 0.0034

Uranus 87142-11-16 21:36 G 33549341.24 33549341.40 33549341.57 0.0134 0.0059

Uranus 87143-02-13 03:51 G 33549429.53 33549429.66 33549429.81 0.0134 0.0084

Uranus 87143-05-12 10:05 G 33549517.83 33549517.92 33549518.05 0.0134 0.0109

Mars 87143-06-15 01:27 G 33549551.45 33549551.56 33549551.68 0.1605 0.0322

Uranus 87143-08-08 16:34 G 33549606.18 33549606.19 33549606.23 0.0134 0.0133

Moon 87143-09-15 16:34 G 33549644.18 33549644.19 33549644.20 0.2620 0.2599

Jupiter 87148-05-30 18:15 G 33551363.08 33551363.26 33551363.43 0.0516 0.0086

Saturn 87148-10-01 23:32 G 33551487.44 33551487.48 33551487.53 0.0264 0.0247

Saturn 87148-12-29 09:36 G 33551575.79 33551575.90 33551576.01 0.0263 0.0144

Saturn 87149-03-27 19:41 G 33551664.19 33551664.32 33551664.46 0.0263 0.0041

Saturn 87149-06-24 05:46 G 33551752.61 33551752.74 33551752.88 0.0262 0.0065

Saturn 87149-09-20 16:05 G 33551841.07 33551841.17 33551841.28 0.0262 0.0169

Earth 87150-09-08 14:24 G 33552193.99 33552194.10 33552194.20 0.2627 0.1075

Moon 87150-09-08 15:08 G 33552194.02 33552194.13 33552194.24 0.2625 0.0957 *

Mars 87150-11-30 11:32 G 33552276.93 33552276.98 33552277.02 0.1596 0.1451

Mars 87152-11-04 12:58 G 33552981.92 33552982.04 33552982.16 0.1603 0.0046

Jupiter 87154-01-19 16:34 G 33553423.06 33553423.19 33553423.32 0.0510 0.0060

Mars 87154-10-10 15:51 G 33553687.11 33553687.16 33553687.20 0.1613 0.1458

Mars 87155-08-20 02:53 G 33554000.48 33554000.62 33554000.77 0.1928 0.0797

Jupiter 87160-03-18 14:53 G 33555672.96 33555673.12 33555673.30 0.0515 0.0167

Earth 87161-03-10 03:22 G 33556029.57 33556029.64 33556029.70 0.2706 0.2399

Moon 87161-03-10 04:20 G 33556029.61 33556029.68 33556029.76 0.2701 0.2314 *

Mars 87162-03-28 00:29 G 33556412.40 33556412.52 33556412.63 0.1601 0.0393

Neptune 87162-09-21 11:46 G 33556589.97 33556589.99 33556590.01 0.0088 0.0086

Neptune 87162-12-18 12:58 G 33556677.99 33556678.04 33556678.10 0.0088 0.0079

Neptune 87163-03-16 14:24 G 33556766.03 33556766.10 33556766.18 0.0088 0.0072

Neptune 87163-06-12 15:36 G 33556854.07 33556854.15 33556854.25 0.0088 0.0065

Neptune 87163-09-08 17:03 G 33556942.12 33556942.21 33556942.32 0.0088 0.0058

Earth 87163-09-11 08:53 G 33556944.75 33556944.87 33556944.98 0.2626 0.0281

Moon 87163-09-11 09:22 G 33556944.77 33556944.89 33556945.00 0.2621 0.0353 *

Neptune 87163-12-05 18:29 G 33557030.17 33557030.27 33557030.39 0.0088 0.0050

Mars 87164-03-02 02:53 G 33557117.53 33557117.62 33557117.70 0.1610 0.1079

Neptune 87164-03-02 19:41 G 33557118.22 33557118.32 33557118.45 0.0088 0.0044

Saturn 87164-04-22 16:20 G 33557169.09 33557169.18 33557169.27 0.0299 0.0257

Neptune 87164-05-29 21:22 G 33557206.27 33557206.39 33557206.52 0.0088 0.0036

Saturn 87164-07-20 17:17 G 33557258.04 33557258.22 33557258.40 0.0299 0.0044

Neptune 87164-08-25 22:48 G 33557294.32 33557294.45 33557294.58 0.0088 0.0029

Saturn 87164-10-17 17:46 G 33557347.10 33557347.24 33557347.39 0.0300 0.0167

Neptune 87164-11-22 00:15 G 33557382.38 33557382.51 33557382.65 0.0088 0.0021

Mars 87165-01-08 20:10 G 33557430.18 33557430.34 33557430.50 0.1932 0.0418

Neptune 87165-02-18 01:41 G 33557470.44 33557470.57 33557470.71 0.0088 0.0014

Neptune 87165-05-17 03:08 G 33557558.49 33557558.63 33557558.77 0.0088 0.0007

Neptune 87165-08-13 04:34 G 33557646.55 33557646.69 33557646.83 0.0088 0.0001

Jupiter 87165-11-07 20:39 G 33557733.24 33557733.36 33557733.49 0.0511 0.0112

Neptune 87165-11-09 06:00 G 33557734.61 33557734.75 33557734.89 0.0088 0.0008

Neptune 87166-02-05 07:27 G 33557822.68 33557822.81 33557822.95 0.0088 0.0015

Neptune 87166-05-04 08:53 G 33557910.74 33557910.87 33557911.01 0.0088 0.0023

Neptune 87166-07-31 10:20 G 33557998.80 33557998.93 33557999.06 0.0088 0.0030

Neptune 87166-10-27 11:46 G 33558086.87 33558086.99 33558087.12 0.0088 0.0038

Neptune 87167-01-23 13:12 G 33558174.94 33558175.05 33558175.17 0.0088 0.0045

Neptune 87167-04-21 14:39 G 33558263.01 33558263.11 33558263.23 0.0088 0.0052

Neptune 87167-07-18 16:05 G 33558351.08 33558351.17 33558351.28 0.0088 0.0060

Neptune 87167-10-14 17:32 G 33558439.15 33558439.23 33558439.33 0.0088 0.0067

Neptune 87168-01-10 18:58 G 33558527.23 33558527.29 33558527.37 0.0088 0.0075

Neptune 87168-04-07 20:24 G 33558615.32 33558615.35 33558615.41 0.0088 0.0083

Mars 87171-08-18 12:00 G 33559842.90 33559843.00 33559843.11 0.1599 0.0739

Jupiter 87172-01-05 12:00 G 33559982.89 33559983.00 33559983.10 0.0514 0.0417

Mars 87173-07-23 14:10 G 33560547.98 33560548.09 33560548.20 0.1608 0.0714

Moon 87174-03-13 07:27 G 33560780.66 33560780.81 33560780.95 0.2699 0.0155

Earth 87174-03-13 07:27 G 33560780.67 33560780.81 33560780.96 0.2707 0.0143 *

Mars 87174-05-31 12:44 G 33560859.95 33560860.03 33560860.12 0.1935 0.1667

Moon 87176-09-13 03:08 G 33561695.54 33561695.63 33561695.73 0.2620 0.1572

Earth 87176-09-13 03:22 G 33561695.55 33561695.64 33561695.73 0.2626 0.1637 *

Jupiter 87177-08-27 01:12 G 33562043.44 33562043.55 33562043.66 0.0512 0.0276

Jupiter 87177-11-24 06:44 G 33562132.71 33562132.78 33562132.86 0.0510 0.0406

Venus 87178-05-16 23:46 G 33562306.42 33562306.49 33562306.56 0.3624 0.2605

Saturn 87178-05-18 12:44 G 33562307.93 33562308.03 33562308.13 0.0263 0.0170

Saturn 87178-08-14 22:48 G 33562396.32 33562396.45 33562396.58 0.0262 0.0067

Saturn 87178-11-11 08:53 G 33562484.74 33562484.87 33562485.01 0.0262 0.0038

Saturn 87179-02-07 19:12 G 33562573.19 33562573.30 33562573.42 0.0262 0.0141

Saturn 87179-05-07 05:32 G 33562661.69 33562661.73 33562661.77 0.0261 0.0247

Mars 87181-01-07 23:46 G 33563273.40 33563273.49 33563273.57 0.1597 0.1080

Mars 87182-12-14 01:27 G 33563978.45 33563978.56 33563978.68 0.1605 0.0353

Uranus 87183-03-12 07:41 G 33564066.75 33564066.82 33564066.88 0.0144 0.0124

Uranus 87183-06-08 11:17 G 33564154.88 33564154.97 33564155.07 0.0144 0.0102

Uranus 87183-09-04 15:08 G 33564243.02 33564243.13 33564243.24 0.0144 0.0080

Earth 87183-09-07 00:58 G 33564245.47 33564245.54 33564245.60 0.2627 0.2129

Moon 87183-09-07 01:41 G 33564245.49 33564245.57 33564245.64 0.2631 0.1984 *

Venus 87183-11-30 15:08 G 33564330.02 33564330.13 33564330.23 0.3624 0.0437

Uranus 87183-12-01 18:58 G 33564331.17 33564331.29 33564331.42 0.0144 0.0057

Jupiter 87184-01-22 17:46 G 33564383.11 33564383.24 33564383.38 0.0516 0.0318

Uranus 87184-02-27 22:48 G 33564419.32 33564419.45 33564419.58 0.0144 0.0035

Uranus 87184-05-26 02:39 G 33564507.47 33564507.61 33564507.75 0.0144 0.0012

Uranus 87184-08-22 06:29 G 33564595.64 33564595.77 33564595.91 0.0144 0.0011

Uranus 87184-11-18 10:20 G 33564683.80 33564683.93 33564684.07 0.0144 0.0034

Uranus 87185-02-14 14:10 G 33564771.97 33564772.09 33564772.22 0.0144 0.0057

Uranus 87185-05-13 18:15 G 33564860.15 33564860.26 33564860.37 0.0144 0.0080

Uranus 87185-08-09 22:05 G 33564948.33 33564948.42 33564948.52 0.0144 0.0103

Uranus 87185-11-06 01:56 G 33565036.53 33565036.58 33565036.65 0.0144 0.0127

Moon 87187-03-16 10:20 G 33565531.88 33565531.93 33565531.98 0.2702 0.2509

Earth 87187-03-16 11:17 G 33565531.93 33565531.97 33565532.01 0.2707 0.2588 *

Venus 87189-06-15 06:15 G 33566353.67 33566353.76 33566353.85 0.3624 0.1768

Jupiter 87189-06-15 05:46 G 33566353.68 33566353.74 33566353.81 0.0513 0.0439 *

Jupiter 87189-09-12 11:17 G 33566442.85 33566442.97 33566443.08 0.0510 0.0241

Mars 87190-05-31 11:32 G 33566703.93 33566703.98 33566704.03 0.1596 0.1415

Mars 87192-05-05 12:58 G 33567408.92 33567409.04 33567409.16 0.1603 0.0022

Saturn 87193-12-07 14:24 G 33567989.94 33567990.10 33567990.27 0.0299 0.0114

Saturn 87194-03-06 15:08 G 33568078.97 33568079.13 33568079.30 0.0299 0.0098

Mars 87194-04-10 15:36 G 33568114.11 33568114.15 33568114.20 0.1613 0.1489

Mars 87195-02-18 03:51 G 33568427.52 33568427.66 33568427.81 0.1928 0.0881

Jupiter 87195-11-10 15:51 G 33568692.98 33568693.16 33568693.33 0.0516 0.0082

Earth 87196-09-08 19:12 G 33568996.19 33568996.30 33568996.41 0.2627 0.0811

Moon 87196-09-08 19:56 G 33568996.22 33568996.33 33568996.44 0.2624 0.0767 *

Jupiter 87201-07-01 15:08 G 33570753.00 33570753.13 33570753.26 0.0510 0.0064

Mars 87201-09-26 00:29 G 33570839.41 33570839.52 33570839.63 0.1601 0.0358

Mars 87203-09-01 02:53 G 33571544.53 33571544.62 33571544.70 0.1611 0.1116

Mars 87204-07-09 21:08 G 33571857.21 33571857.38 33571857.54 0.1932 0.0341

Venus 87204-07-10 03:22 G 33571857.50 33571857.64 33571857.79 0.3748 0.1155 *

Earth 87207-03-11 09:36 G 33572831.80 33572831.90 33572832.00 0.2706 0.1917

Moon 87207-03-11 10:20 G 33572831.82 33572831.93 33572832.04 0.2700 0.1741 *

Jupiter 87207-08-29 12:58 G 33573002.88 33573003.04 33573003.21 0.0515 0.0162

Saturn 87207-10-05 15:22 G 33573040.06 33573040.14 33573040.23 0.0264 0.0202

Saturn 87208-01-02 01:41 G 33573128.44 33573128.57 33573128.69 0.0263 0.0098

Saturn 87208-03-30 11:46 G 33573216.86 33573216.99 33573217.13 0.0263 0.0007

Saturn 87208-06-26 22:05 G 33573305.29 33573305.42 33573305.54 0.0262 0.0112

Saturn 87208-09-23 08:10 G 33573393.77 33573393.84 33573393.92 0.0262 0.0217

Earth 87209-09-11 13:41 G 33573746.96 33573747.07 33573747.19 0.2626 0.0539

Moon 87209-09-11 14:10 G 33573746.97 33573747.09 33573747.20 0.2621 0.0592 *

Mars 87211-02-16 12:00 G 33574269.89 33574270.00 33574270.10 0.1599 0.0708

Mars 87213-01-21 14:10 G 33574974.98 33574975.09 33574975.19 0.1608 0.0747

Jupiter 87213-04-19 19:12 G 33575063.17 33575063.30 33575063.43 0.0511 0.0109

Mars 87213-11-29 13:12 G 33575286.96 33575287.05 33575287.14 0.1935 0.1605

Pluto 87216-10-30 05:17 G 33576352.70 33576352.72 33576352.79 0.0061 0.0060

Pluto 87217-01-26 06:44 G 33576440.69 33576440.78 33576440.90 0.0062 0.0049

Pluto 87217-04-24 07:41 G 33576528.70 33576528.82 33576528.97 0.0062 0.0039

Pluto 87217-07-21 08:53 G 33576616.72 33576616.87 33576617.03 0.0062 0.0028

Pluto 87217-10-17 09:51 G 33576704.75 33576704.91 33576705.09 0.0062 0.0018

Pluto 87218-01-13 11:03 G 33576792.79 33576792.96 33576793.14 0.0062 0.0007

Pluto 87218-04-11 12:00 G 33576880.83 33576881.00 33576881.18 0.0062 0.0004

Pluto 87218-07-08 12:58 G 33576968.88 33576969.04 33576969.22 0.0062 0.0014

Pluto 87218-10-04 13:41 G 33577056.93 33577057.07 33577057.25 0.0062 0.0025

Pluto 87218-12-31 14:53 G 33577144.99 33577145.12 33577145.27 0.0062 0.0035

Pluto 87219-03-29 15:36 G 33577233.06 33577233.15 33577233.29 0.0062 0.0047

Jupiter 87219-06-17 09:51 G 33577312.81 33577312.91 33577313.02 0.0514 0.0414

Pluto 87219-06-25 17:03 G 33577321.15 33577321.21 33577321.29 0.0062 0.0057

Moon 87220-03-13 13:27 G 33577582.92 33577583.06 33577583.21 0.2699 0.0558

Earth 87220-03-13 13:41 G 33577582.93 33577583.07 33577583.21 0.2707 0.0613 *

Mars 87220-07-08 23:46 G 33577700.40 33577700.49 33577700.57 0.1598 0.1046

Mars 87222-06-14 01:27 G 33578405.45 33578405.56 33578405.68 0.1605 0.0382

Moon 87222-09-14 08:10 G 33578497.76 33578497.84 33578497.92 0.2619 0.1884

Earth 87222-09-14 08:24 G 33578497.77 33578497.85 33578497.93 0.2626 0.1911 *

Saturn 87223-04-26 14:39 G 33578721.96 33578722.11 33578722.27 0.0299 0.0160

Saturn 87223-07-24 15:36 G 33578810.97 33578811.15 33578811.32 0.0300 0.0052

Saturn 87223-10-21 15:51 G 33578900.08 33578900.16 33578900.25 0.0300 0.0261

Jupiter 87225-02-05 23:17 G 33579373.37 33579373.47 33579373.58 0.0512 0.0281

Uranus 87225-03-29 06:29 G 33579424.68 33579424.77 33579424.88 0.0134 0.0112

Jupiter 87225-05-06 04:48 G 33579462.62 33579462.70 33579462.78 0.0510 0.0400

Uranus 87225-06-25 12:58 G 33579512.91 33579513.04 33579513.20 0.0134 0.0087

Uranus 87225-09-21 19:56 G 33579601.17 33579601.33 33579601.50 0.0134 0.0060

Uranus 87225-12-19 02:24 G 33579689.43 33579689.60 33579689.79 0.0134 0.0036

Uranus 87226-03-17 09:08 G 33579777.70 33579777.88 33579778.07 0.0134 0.0010

Uranus 87226-06-13 15:36 G 33579865.97 33579866.15 33579866.34 0.0134 0.0016

Uranus 87226-09-09 22:05 G 33579954.25 33579954.42 33579954.60 0.0134 0.0041

Uranus 87226-12-07 04:34 G 33580042.54 33580042.69 33580042.86 0.0134 0.0065

Uranus 87227-03-05 10:48 G 33580130.83 33580130.95 33580131.10 0.0134 0.0090

Uranus 87227-06-01 17:17 G 33580219.14 33580219.22 33580219.32 0.0134 0.0115

Earth 87229-09-07 05:46 G 33581047.66 33581047.74 33581047.82 0.2627 0.1867

Moon 87229-09-07 06:29 G 33581047.69 33581047.77 33581047.85 0.2629 0.1844 *

Mars 87229-11-29 11:32 G 33581130.92 33581130.98 33581131.03 0.1596 0.1385

Jupiter 87231-07-04 15:51 G 33581713.03 33581713.16 33581713.31 0.0516 0.0325

Mars 87231-11-04 12:58 G 33581835.92 33581836.04 33581836.16 0.1603 0.0039

Mars 87233-10-09 15:36 G 33582541.12 33582541.15 33582541.19 0.1613 0.1522

Mars 87234-08-19 05:03 G 33582854.57 33582854.71 33582854.85 0.1928 0.0970

Venus 87234-12-21 21:08 G 33582979.29 33582979.38 33582979.47 0.3624 0.1799

Jupiter 87236-11-25 03:51 G 33583683.60 33583683.66 33583683.72 0.0513 0.0447

Saturn 87237-02-21 18:58 G 33583772.23 33583772.29 33583772.36 0.0263 0.0224

Jupiter 87237-02-22 09:08 G 33583772.77 33583772.88 33583773.00 0.0510 0.0233

Saturn 87237-05-21 05:03 G 33583860.59 33583860.71 33583860.83 0.0263 0.0121

Saturn 87237-08-17 15:08 G 33583949.00 33583949.13 33583949.27 0.0262 0.0018

Saturn 87237-11-14 01:27 G 33584037.43 33584037.56 33584037.69 0.0262 0.0087

Saturn 87238-02-10 11:32 G 33584125.90 33584125.98 33584126.08 0.0262 0.0193

Venus 87240-07-06 12:15 G 33585002.91 33585003.01 33585003.12 0.3624 0.0410

Mars 87241-03-27 00:29 G 33585266.40 33585266.52 33585266.63 0.1601 0.0327

Earth 87242-09-10 00:15 G 33585798.39 33585798.51 33585798.62 0.2626 0.0545

Moon 87242-09-10 00:58 G 33585798.42 33585798.54 33585798.65 0.2623 0.0399 *

Mars 87243-03-02 02:53 G 33585971.54 33585971.62 33585971.70 0.1611 0.1150

Jupiter 87243-04-22 12:44 G 33586022.86 33586023.03 33586023.21 0.0515 0.0070

Mars 87244-01-08 21:51 G 33586284.24 33586284.41 33586284.57 0.1932 0.0265

Neptune 87245-12-15 14:24 G 33586991.07 33586991.10 33586991.18 0.0090 0.0086

Venus 87246-01-20 03:36 G 33587026.58 33587026.65 33587026.72 0.3624 0.2589

Neptune 87246-03-13 18:00 G 33587079.16 33587079.25 33587079.37 0.0090 0.0075

Neptune 87246-06-09 21:36 G 33587167.27 33587167.40 33587167.53 0.0090 0.0064

Neptune 87246-09-06 00:44 G 33587255.39 33587255.53 33587255.69 0.0090 0.0054

Neptune 87246-12-03 04:05 G 33587343.52 33587343.67 33587343.84 0.0090 0.0043

Neptune 87247-03-01 07:27 G 33587431.64 33587431.81 33587431.99 0.0090 0.0033

Neptune 87247-05-28 10:48 G 33587519.77 33587519.95 33587520.13 0.0090 0.0022

Neptune 87247-08-24 13:56 G 33587607.90 33587608.08 33587608.27 0.0090 0.0012

Neptune 87247-11-20 17:17 G 33587696.04 33587696.22 33587696.41 0.0090 0.0002

Neptune 87248-02-16 20:24 G 33587784.18 33587784.35 33587784.54 0.0090 0.0010

Neptune 87248-05-14 23:46 G 33587872.31 33587872.49 33587872.67 0.0090 0.0020

Neptune 87248-08-11 02:53 G 33587960.45 33587960.62 33587960.80 0.0090 0.0030

Neptune 87248-11-07 06:00 G 33588048.60 33588048.75 33588048.92 0.0090 0.0041

Jupiter 87248-12-11 13:41 G 33588082.94 33588083.07 33588083.20 0.0511 0.0067

Neptune 87249-02-03 09:08 G 33588136.74 33588136.88 33588137.04 0.0090 0.0051

Neptune 87249-05-02 12:15 G 33588224.89 33588225.01 33588225.16 0.0090 0.0061

Neptune 87249-07-29 15:36 G 33588313.05 33588313.15 33588313.27 0.0090 0.0071

Neptune 87249-10-25 18:44 G 33588401.21 33588401.28 33588401.36 0.0090 0.0081

Mars 87250-08-17 12:00 G 33588696.90 33588697.00 33588697.11 0.1599 0.0671

Mars 87252-07-22 14:10 G 33589401.99 33589402.09 33589402.19 0.1608 0.0781

Saturn 87252-09-12 12:44 G 33589453.92 33589454.03 33589454.16 0.0298 0.0222

Saturn 87252-12-10 13:41 G 33589542.89 33589543.07 33589543.25 0.0299 0.0010

Saturn 87253-03-09 14:10 G 33589631.96 33589632.09 33589632.22 0.0299 0.0201

Earth 87253-03-11 15:51 G 33589634.04 33589634.16 33589634.28 0.2706 0.1442

Moon 87253-03-11 16:20 G 33589634.06 33589634.18 33589634.30 0.2699 0.1478 *

Mars 87253-05-30 14:24 G 33589714.00 33589714.10 33589714.21 0.1935 0.1507

Jupiter 87255-02-08 10:20 G 33590332.76 33590332.93 33590333.10 0.0515 0.0172

Earth 87255-09-12 18:44 G 33590549.17 33590549.28 33590549.39 0.2626 0.0810

Moon 87255-09-12 18:58 G 33590549.18 33590549.29 33590549.40 0.2620 0.0809 *

Mars 87260-01-07 23:32 G 33592127.40 33592127.48 33592127.57 0.1597 0.1017

Jupiter 87260-09-29 17:46 G 33592393.11 33592393.24 33592393.36 0.0511 0.0108

Venus 87261-02-14 05:46 G 33592530.60 33592530.74 33592530.88 0.3749 0.1558

Mars 87261-12-13 01:27 G 33592832.45 33592832.56 33592832.68 0.1605 0.0418

Moon 87266-03-14 19:27 G 33594385.18 33594385.31 33594385.45 0.2700 0.1089

Earth 87266-03-14 19:56 G 33594385.20 33594385.33 33594385.46 0.2707 0.1074 *

Saturn 87266-07-11 21:51 G 33594504.38 33594504.41 33594504.45 0.0264 0.0255

Saturn 87266-10-08 07:56 G 33594592.72 33594592.83 33594592.94 0.0263 0.0151

Jupiter 87266-11-27 07:12 G 33594642.70 33594642.80 33594642.91 0.0515 0.0419

Uranus 87267-01-03 10:48 G 33594679.93 33594679.95 33594679.97 0.0144 0.0142

Saturn 87267-01-04 18:00 G 33594681.12 33594681.25 33594681.39 0.0263 0.0047

Uranus 87267-04-01 14:24 G 33594768.04 33594768.10 33594768.18 0.0144 0.0120

Saturn 87267-04-03 04:20 G 33594769.55 33594769.68 33594769.81 0.0263 0.0058

Uranus 87267-06-28 18:29 G 33594856.17 33594856.27 33594856.37 0.0144 0.0097

Saturn 87267-06-30 14:24 G 33594858.00 33594858.10 33594858.21 0.0262 0.0163

Uranus 87267-09-24 22:05 G 33594944.31 33594944.42 33594944.54 0.0144 0.0075

Uranus 87267-12-22 01:56 G 33595032.46 33595032.58 33595032.71 0.0144 0.0053

Uranus 87268-03-19 05:46 G 33595120.61 33595120.74 33595120.88 0.0144 0.0030

Uranus 87268-06-15 09:51 G 33595208.77 33595208.91 33595209.04 0.0144 0.0008

Uranus 87268-09-11 13:41 G 33595296.93 33595297.07 33595297.20 0.0144 0.0016

Moon 87268-09-14 12:58 G 33595299.98 33595300.04 33595300.11 0.2619 0.2133

Earth 87268-09-14 13:27 G 33595299.99 33595300.06 33595300.12 0.2626 0.2190 *

Uranus 87268-12-08 17:32 G 33595385.10 33595385.23 33595385.36 0.0144 0.0039

Uranus 87269-03-06 21:22 G 33595473.27 33595473.39 33595473.52 0.0144 0.0062

Mars 87269-05-30 11:17 G 33595557.91 33595557.97 33595558.03 0.1596 0.1353

Uranus 87269-06-03 01:12 G 33595561.45 33595561.55 33595561.67 0.0144 0.0086

Uranus 87269-08-30 05:17 G 33595649.63 33595649.72 33595649.81 0.0144 0.0109

Uranus 87269-11-26 09:08 G 33595737.84 33595737.88 33595737.94 0.0144 0.0132

Mars 87271-05-05 12:58 G 33596262.92 33596263.04 33596263.15 0.1603 0.0080

Jupiter 87272-07-18 21:51 G 33596703.30 33596703.41 33596703.52 0.0512 0.0279

Jupiter 87272-10-16 03:22 G 33596792.56 33596792.64 33596792.72 0.0509 0.0400

Mars 87273-04-09 15:36 G 33596968.13 33596968.15 33596968.18 0.1613 0.1557

Mars 87274-02-17 05:17 G 33597281.58 33597281.72 33597281.86 0.1928 0.1025

Earth 87275-09-08 10:48 G 33597849.86 33597849.95 33597850.04 0.2627 0.1609

Moon 87275-09-08 11:32 G 33597849.88 33597849.98 33597850.07 0.2627 0.1453 *

Jupiter 87278-12-14 13:41 G 33599042.93 33599043.07 33599043.20 0.0516 0.0321

Mars 87280-09-25 00:29 G 33599693.40 33599693.52 33599693.63 0.1601 0.0294

Saturn 87282-01-30 12:58 G 33600185.97 33600186.04 33600186.13 0.0299 0.0267

Saturn 87282-04-29 14:10 G 33600274.91 33600275.09 33600275.27 0.0299 0.0054

Saturn 87282-07-27 14:39 G 33600363.96 33600364.11 33600364.27 0.0300 0.0157

Mars 87282-08-31 02:53 G 33600398.54 33600398.62 33600398.70 0.1610 0.1180

Mars 87283-07-09 22:48 G 33600711.29 33600711.45 33600711.61 0.1932 0.0171

Jupiter 87284-05-07 01:56 G 33601013.52 33601013.58 33601013.64 0.0513 0.0454

Jupiter 87284-08-04 07:12 G 33601102.69 33601102.80 33601102.92 0.0510 0.0225

Venus 87286-01-12 03:22 G 33601628.59 33601628.64 33601628.69 0.3624 0.3154

Earth 87288-09-10 05:03 G 33602600.60 33602600.71 33602600.83 0.2626 0.0277

Moon 87288-09-10 05:46 G 33602600.63 33602600.74 33602600.86 0.2623 0.0249 *

Mars 87290-02-15 12:00 G 33603123.89 33603124.00 33603124.11 0.1599 0.0639

Jupiter 87290-10-02 10:34 G 33603352.77 33603352.94 33603353.12 0.0515 0.0072

Venus 87291-07-28 18:29 G 33603652.17 33603652.27 33603652.37 0.3624 0.0989

Mars 87292-01-21 14:10 G 33603828.99 33603829.09 33603829.19 0.1608 0.0815

Mars 87292-11-28 15:22 G 33604141.03 33604141.14 33604141.25 0.1935 0.1425

Saturn 87296-02-25 11:32 G 33605324.89 33605324.98 33605325.09 0.0263 0.0172

Jupiter 87296-05-23 11:32 G 33605412.85 33605412.98 33605413.11 0.0511 0.0056

Saturn 87296-05-23 21:51 G 33605413.28 33605413.41 33605413.54 0.0263 0.0068

Saturn 87296-08-20 07:56 G 33605501.70 33605501.83 33605501.97 0.0262 0.0037

Saturn 87296-11-16 18:15 G 33605590.15 33605590.26 33605590.37 0.0262 0.0141

Venus 87297-02-10 09:51 G 33605675.81 33605675.91 33605676.00 0.3624 0.1209

Saturn 87297-02-13 04:34 G 33605678.65 33605678.69 33605678.73 0.0262 0.0247

Earth 87299-03-12 22:05 G 33606436.28 33606436.42 33606436.56 0.2706 0.0971

Moon 87299-03-12 22:20 G 33606436.29 33606436.43 33606436.57 0.2699 0.0820 *

Mars 87299-07-08 23:32 G 33606554.39 33606554.48 33606554.58 0.1597 0.0982

Mars 87301-06-14 01:27 G 33607259.45 33607259.56 33607259.67 0.1605 0.0451

Moon 87301-09-13 23:46 G 33607351.38 33607351.49 33607351.59 0.2619 0.1139

Earth 87301-09-13 23:46 G 33607351.38 33607351.49 33607351.59 0.2626 0.1089 *

Jupiter 87302-07-22 07:12 G 33607662.63 33607662.80 33607662.96 0.0515 0.0187

Venus 87302-08-28 00:58 G 33607699.51 33607699.54 33607699.57 0.3624 0.3423

Jupiter 87308-03-12 16:05 G 33609723.04 33609723.17 33609723.29 0.0512 0.0111

Moon 87308-09-06 21:51 G 33609901.39 33609901.41 33609901.43 0.2633 0.2564

Mars 87308-11-29 11:17 G 33609984.91 33609984.97 33609985.04 0.1596 0.1319

Uranus 87309-01-21 06:58 G 33610037.76 33610037.79 33610037.85 0.0134 0.0129

Pluto 87309-03-03 15:51 G 33610079.07 33610079.16 33610079.25 0.0082 0.0064

Uranus 87309-04-19 13:56 G 33610125.97 33610126.08 33610126.20 0.0134 0.0103

Pluto 87309-05-30 17:03 G 33610167.10 33610167.21 33610167.34 0.0082 0.0043

Uranus 87309-07-16 20:24 G 33610214.21 33610214.35 33610214.51 0.0134 0.0078

Pluto 87309-08-26 18:29 G 33610255.14 33610255.27 33610255.41 0.0082 0.0023

Uranus 87309-10-13 03:22 G 33610302.47 33610302.64 33610302.81 0.0134 0.0052

Pluto 87309-11-22 19:56 G 33610343.19 33610343.33 33610343.48 0.0082 0.0003

Uranus 87310-01-09 09:51 G 33610390.73 33610390.91 33610391.10 0.0134 0.0027

Pluto 87310-02-18 21:22 G 33610431.25 33610431.39 33610431.53 0.0082 0.0018

Uranus 87310-04-07 16:34 G 33610479.00 33610479.19 33610479.37 0.0134 0.0002

Pluto 87310-05-17 22:48 G 33610519.32 33610519.45 33610519.58 0.0082 0.0038

Uranus 87310-07-04 23:03 G 33610567.28 33610567.46 33610567.64 0.0134 0.0023

Pluto 87310-08-14 00:15 G 33610607.41 33610607.51 33610607.61 0.0082 0.0058

Uranus 87310-10-01 05:32 G 33610655.56 33610655.73 33610655.90 0.0134 0.0048

Mars 87310-11-04 12:58 G 33610689.92 33610690.04 33610690.15 0.1603 0.0105

Pluto 87310-11-10 01:12 G 33610695.53 33610695.55 33610695.60 0.0081 0.0078

Uranus 87310-12-28 11:46 G 33610743.85 33610743.99 33610744.15 0.0134 0.0073

Uranus 87311-03-26 18:00 G 33610832.14 33610832.25 33610832.39 0.0134 0.0098

Uranus 87311-06-23 00:29 G 33610920.46 33610920.52 33610920.61 0.0134 0.0123

Saturn 87311-09-17 12:58 G 33611006.88 33611007.04 33611007.22 0.0299 0.0109

Saturn 87311-12-15 13:41 G 33611095.91 33611096.07 33611096.24 0.0299 0.0103

Moon 87312-03-16 01:27 G 33611187.43 33611187.56 33611187.69 0.2701 0.1372

Earth 87312-03-16 02:10 G 33611187.47 33611187.59 33611187.71 0.2707 0.1540 *

Mars 87312-10-09 15:36 G 33611395.14 33611395.15 33611395.17 0.1613 0.1591

Mars 87313-08-19 06:29 G 33611708.63 33611708.77 33611708.90 0.1928 0.1115

Jupiter 87314-05-10 04:20 G 33611972.59 33611972.68 33611972.78 0.0514 0.0433

Moon 87314-09-16 18:00 G 33612102.20 33612102.25 33612102.29 0.2620 0.2392

Earth 87314-09-16 18:15 G 33612102.23 33612102.26 33612102.30 0.2626 0.2470 *

Jupiter 87319-12-30 20:10 G 33614033.23 33614033.34 33614033.45 0.0512 0.0281

Mars 87320-03-27 00:29 G 33614120.40 33614120.52 33614120.63 0.1601 0.0262

Jupiter 87320-03-29 01:41 G 33614122.49 33614122.57 33614122.65 0.0509 0.0398

Earth 87321-09-09 15:36 G 33614652.05 33614652.15 33614652.25 0.2627 0.1343

Moon 87321-09-09 16:20 G 33614652.08 33614652.18 33614652.28 0.2626 0.1297 *

Mars 87322-03-02 02:53 G 33614825.54 33614825.62 33614825.70 0.1610 0.1216

Mars 87323-01-08 23:32 G 33615138.31 33615138.48 33615138.64 0.1932 0.0113

Saturn 87325-07-15 14:39 G 33616057.03 33616057.11 33616057.20 0.0264 0.0201

Saturn 87325-10-12 00:44 G 33616145.41 33616145.53 33616145.66 0.0263 0.0097

Saturn 87326-01-08 10:48 G 33616233.82 33616233.95 33616234.09 0.0263 0.0011

Saturn 87326-04-06 21:08 G 33616322.26 33616322.38 33616322.50 0.0263 0.0112

Jupiter 87326-05-27 10:48 G 33616372.81 33616372.95 33616373.09 0.0517 0.0312

Saturn 87326-07-04 07:27 G 33616410.74 33616410.81 33616410.88 0.0262 0.0218

Neptune 87327-06-19 11:03 G 33616760.93 33616760.96 33616761.01 0.0088 0.0083

Neptune 87327-09-15 12:29 G 33616848.96 33616849.02 33616849.09 0.0088 0.0076

Neptune 87327-12-12 13:41 G 33616937.00 33616937.07 33616937.17 0.0088 0.0069

Neptune 87328-03-09 15:08 G 33617025.05 33617025.13 33617025.24 0.0088 0.0062

Neptune 87328-06-05 16:48 G 33617113.09 33617113.20 33617113.31 0.0088 0.0054

Neptune 87328-09-01 18:00 G 33617201.14 33617201.25 33617201.37 0.0088 0.0047

Neptune 87328-11-28 19:27 G 33617289.19 33617289.31 33617289.44 0.0088 0.0040

Neptune 87329-02-24 20:53 G 33617377.25 33617377.37 33617377.50 0.0088 0.0033

Neptune 87329-05-23 22:20 G 33617465.30 33617465.43 33617465.57 0.0088 0.0025

Mars 87329-08-17 12:00 G 33617550.89 33617551.00 33617551.11 0.1599 0.0610

Neptune 87329-08-19 23:46 G 33617553.36 33617553.49 33617553.63 0.0088 0.0018

Neptune 87329-11-16 01:12 G 33617641.42 33617641.55 33617641.69 0.0088 0.0011

Neptune 87330-02-12 02:39 G 33617729.47 33617729.61 33617729.75 0.0088 0.0004

Neptune 87330-05-11 04:05 G 33617817.53 33617817.67 33617817.81 0.0088 0.0004

Neptune 87330-08-07 05:32 G 33617905.59 33617905.73 33617905.87 0.0088 0.0011

Neptune 87330-11-03 06:58 G 33617993.66 33617993.79 33617993.93 0.0088 0.0019

Neptune 87331-01-30 08:24 G 33618081.72 33618081.85 33618081.98 0.0088 0.0026

Neptune 87331-04-28 09:51 G 33618169.79 33618169.91 33618170.04 0.0088 0.0034

Mars 87331-07-23 14:10 G 33618255.99 33618256.09 33618256.19 0.1608 0.0847

Neptune 87331-07-25 11:17 G 33618257.85 33618257.97 33618258.10 0.0088 0.0041

Jupiter 87331-10-19 00:29 G 33618343.46 33618343.52 33618343.58 0.0512 0.0452

Neptune 87331-10-21 12:29 G 33618345.92 33618346.02 33618346.15 0.0088 0.0049

Jupiter 87332-01-16 05:46 G 33618432.62 33618432.74 33618432.85 0.0510 0.0226

Neptune 87332-01-17 14:10 G 33618433.99 33618434.09 33618434.20 0.0088 0.0056

Neptune 87332-04-14 15:22 G 33618522.06 33618522.14 33618522.25 0.0088 0.0064

Mars 87332-05-30 16:05 G 33618568.05 33618568.17 33618568.28 0.1935 0.1353

Neptune 87332-07-11 17:03 G 33618610.14 33618610.21 33618610.30 0.0088 0.0071

Neptune 87332-10-07 18:44 G 33618698.22 33618698.28 33618698.34 0.0088 0.0078

Neptune 87333-01-03 19:56 G 33618786.32 33618786.33 33618786.37 0.0088 0.0086

Earth 87334-09-12 10:05 G 33619402.80 33619402.92 33619403.03 0.2626 0.0052

Moon 87334-09-12 10:34 G 33619402.82 33619402.94 33619403.06 0.2622 0.0131 *

Jupiter 87338-03-15 07:56 G 33620682.65 33620682.83 33620683.00 0.0515 0.0063

Mars 87339-01-07 23:32 G 33620981.39 33620981.48 33620981.58 0.1597 0.0949

Mars 87340-12-13 01:27 G 33621686.44 33621686.56 33621686.67 0.1605 0.0483

Saturn 87341-02-03 13:41 G 33621738.92 33621739.07 33621739.23 0.0299 0.0151

Saturn 87341-05-03 14:39 G 33621827.93 33621828.11 33621828.28 0.0299 0.0061

Saturn 87341-07-31 14:39 G 33621917.05 33621917.11 33621917.20 0.0300 0.0271

Venus 87342-08-20 00:44 G 33622301.45 33622301.53 33622301.60 0.3624 0.2351

Jupiter 87343-11-04 09:36 G 33622742.77 33622742.90 33622743.03 0.0511 0.0048

Earth 87345-03-14 04:20 G 33623238.53 33623238.68 33623238.82 0.2706 0.0495

Moon 87345-03-14 04:34 G 33623238.55 33623238.69 33623238.84 0.2699 0.0554 *

Moon 87347-09-15 04:34 G 33624153.59 33624153.69 33624153.79 0.2619 0.1290

Earth 87347-09-15 04:34 G 33624153.59 33624153.69 33624153.79 0.2626 0.1359 *

Venus 87348-03-04 15:51 G 33624325.06 33624325.16 33624325.26 0.3624 0.0178

Mars 87348-05-30 11:17 G 33624411.91 33624411.97 33624412.04 0.1596 0.1286

Jupiter 87350-01-01 04:48 G 33624992.53 33624992.70 33624992.87 0.0515 0.0188

Mars 87350-05-05 12:58 G 33625116.92 33625117.04 33625117.15 0.1603 0.0137

Uranus 87351-01-24 17:32 G 33625381.20 33625381.23 33625381.27 0.0144 0.0138

Uranus 87351-04-22 21:22 G 33625469.32 33625469.39 33625469.47 0.0144 0.0116

Uranus 87351-07-20 00:58 G 33625557.45 33625557.54 33625557.65 0.0144 0.0094

Uranus 87351-10-16 05:03 G 33625645.59 33625645.71 33625645.83 0.0144 0.0071

Uranus 87352-01-12 08:53 G 33625733.74 33625733.87 33625734.00 0.0144 0.0048

Uranus 87352-04-09 12:44 G 33625821.90 33625822.03 33625822.16 0.0144 0.0026

Uranus 87352-07-06 16:34 G 33625910.06 33625910.19 33625910.33 0.0144 0.0003

Uranus 87352-10-02 20:24 G 33625998.22 33625998.35 33625998.49 0.0144 0.0020

Uranus 87352-12-30 00:15 G 33626086.38 33626086.51 33626086.65 0.0144 0.0044

Mars 87353-02-17 07:12 G 33626135.68 33626135.80 33626135.93 0.1928 0.1198

Uranus 87353-03-28 04:20 G 33626174.56 33626174.68 33626174.80 0.0144 0.0066

Uranus 87353-06-24 08:10 G 33626262.74 33626262.84 33626262.95 0.0144 0.0090

Venus 87353-09-18 06:58 G 33626348.71 33626348.79 33626348.88 0.3624 0.2020

Uranus 87353-09-20 12:00 G 33626350.93 33626351.00 33626351.09 0.0144 0.0113

Uranus 87353-12-17 15:51 G 33626439.14 33626439.16 33626439.22 0.0144 0.0137

Earth 87354-09-08 02:10 G 33626703.55 33626703.59 33626703.64 0.2627 0.2398

Moon 87354-09-08 02:53 G 33626703.57 33626703.62 33626703.67 0.2631 0.2337 *

Saturn 87354-12-02 18:29 G 33626789.20 33626789.27 33626789.34 0.0263 0.0221

Saturn 87355-03-01 04:34 G 33626877.57 33626877.69 33626877.81 0.0263 0.0117

Saturn 87355-05-28 14:39 G 33626965.98 33626966.11 33626966.25 0.0263 0.0014

Jupiter 87355-08-23 13:56 G 33627052.95 33627053.08 33627053.20 0.0512 0.0124

Saturn 87355-08-25 00:58 G 33627054.41 33627054.54 33627054.67 0.0262 0.0092

Saturn 87355-11-21 11:03 G 33627142.88 33627142.96 33627143.06 0.0262 0.0198

Moon 87358-03-17 07:12 G 33627989.70 33627989.80 33627989.90 0.2702 0.1973

Earth 87358-03-17 08:10 G 33627989.75 33627989.84 33627989.94 0.2707 0.1994 *

Mars 87359-09-26 00:29 G 33628547.40 33628547.52 33628547.63 0.1601 0.0231

Mars 87361-08-31 02:53 G 33629252.55 33629252.62 33629252.69 0.1610 0.1251

Jupiter 87361-10-20 01:12 G 33629302.46 33629302.55 33629302.63 0.0514 0.0448

Mars 87362-07-10 00:15 G 33629565.35 33629565.51 33629565.68 0.1932 0.0046

Jupiter 87367-06-11 18:15 G 33631363.15 33631363.26 33631363.37 0.0512 0.0288

Jupiter 87367-09-08 23:46 G 33631452.41 33631452.49 33631452.57 0.0510 0.0393

Earth 87367-09-10 20:24 G 33631454.25 33631454.35 33631454.46 0.2627 0.1087

Moon 87367-09-10 21:22 G 33631454.28 33631454.39 33631454.49 0.2626 0.0936 *

Venus 87368-10-13 00:15 G 33631852.37 33631852.51 33631852.66 0.3749 0.1320

Mars 87369-02-15 12:00 G 33631977.89 33631978.00 33631978.11 0.1599 0.0573

Saturn 87370-06-23 12:44 G 33632470.91 33632471.03 33632471.17 0.0299 0.0205

Saturn 87370-09-20 13:56 G 33632559.90 33632560.08 33632560.26 0.0299 0.0010

Saturn 87370-12-18 14:10 G 33632648.98 33632649.09 33632649.22 0.0299 0.0218

Mars 87371-01-21 14:10 G 33632682.99 33632683.09 33632683.19 0.1608 0.0881

Mars 87371-11-29 17:03 G 33632995.08 33632995.21 33632995.33 0.1935 0.1265

Jupiter 87373-11-06 07:41 G 33633702.68 33633702.82 33633702.97 0.0516 0.0296

Earth 87378-03-12 06:15 G 33635289.72 33635289.76 33635289.80 0.2706 0.2582

Moon 87378-03-12 07:12 G 33635289.74 33635289.80 33635289.85 0.2700 0.2491 *

Mars 87378-07-08 23:32 G 33635408.39 33635408.48 33635408.58 0.1597 0.0917

Jupiter 87379-03-30 22:34 G 33635673.39 33635673.44 33635673.50 0.0512 0.0455

Jupiter 87379-06-28 03:51 G 33635762.54 33635762.66 33635762.78 0.0510 0.0222

Mars 87380-06-13 01:27 G 33636113.45 33636113.56 33636113.67 0.1605 0.0518

Earth 87380-09-12 14:53 G 33636205.01 33636205.12 33636205.24 0.2626 0.0272

Moon 87380-09-12 15:22 G 33636205.02 33636205.14 33636205.26 0.2621 0.0260 *

Saturn 87384-04-20 21:22 G 33637521.36 33637521.39 33637521.44 0.0264 0.0250

Saturn 87384-07-18 07:27 G 33637609.70 33637609.81 33637609.93 0.0263 0.0146

Saturn 87384-10-14 17:32 G 33637698.10 33637698.23 33637698.37 0.0263 0.0043

Saturn 87385-01-11 03:51 G 33637786.53 33637786.66 33637786.79 0.0263 0.0063

Saturn 87385-04-09 14:10 G 33637874.98 33637875.09 33637875.19 0.0262 0.0169

Jupiter 87385-08-25 04:48 G 33638012.52 33638012.70 33638012.88 0.0516 0.0049

Mars 87387-11-29 11:17 G 33638838.90 33638838.97 33638839.04 0.1596 0.1255

Mars 87389-11-03 12:44 G 33639543.92 33639544.03 33639544.15 0.1603 0.0166

Moon 87391-03-15 10:34 G 33640040.79 33640040.94 33640041.09 0.2700 0.0079

Earth 87391-03-15 10:34 G 33640040.79 33640040.94 33640041.09 0.2706 0.0019 *

Jupiter 87391-04-16 07:56 G 33640072.70 33640072.83 33640072.97 0.0510 0.0054

Mars 87392-08-18 07:41 G 33640562.70 33640562.82 33640562.95 0.1928 0.1259

Uranus 87393-02-10 14:24 G 33640739.03 33640739.10 33640739.18 0.0134 0.0122

Uranus 87393-05-09 20:53 G 33640827.25 33640827.37 33640827.51 0.0134 0.0096

Uranus 87393-08-06 03:51 G 33640915.50 33640915.66 33640915.82 0.0134 0.0070

Moon 87393-09-15 09:36 G 33640955.81 33640955.90 33640955.98 0.2619 0.1687

Earth 87393-09-15 09:36 G 33640955.81 33640955.90 33640955.99 0.2626 0.1633 *

Uranus 87393-11-02 10:20 G 33641003.76 33641003.93 33641004.11 0.0134 0.0045

Uranus 87394-01-29 17:03 G 33641092.03 33641092.21 33641092.40 0.0134 0.0020

Uranus 87394-04-27 23:46 G 33641180.30 33641180.49 33641180.67 0.0134 0.0006

Uranus 87394-07-25 06:15 G 33641268.58 33641268.76 33641268.94 0.0134 0.0031

Uranus 87394-10-21 12:29 G 33641356.86 33641357.02 33641357.20 0.0134 0.0056

Uranus 87395-01-17 19:12 G 33641445.15 33641445.30 33641445.45 0.0134 0.0081

Uranus 87395-04-16 01:27 G 33641533.46 33641533.56 33641533.68 0.0134 0.0105

Uranus 87395-07-13 07:56 G 33641621.79 33641621.83 33641621.88 0.0134 0.0130

Mars 87397-04-20 23:03 G 33642269.45 33642269.46 33642269.47 0.1595 0.1587

Jupiter 87397-06-13 01:56 G 33642322.41 33642322.58 33642322.74 0.0515 0.0200

Venus 87399-03-26 22:05 G 33642974.32 33642974.42 33642974.51 0.3624 0.1548

Mars 87399-03-27 00:15 G 33642974.40 33642974.51 33642974.63 0.1601 0.0202 *

Saturn 87399-11-10 13:12 G 33643202.95 33643203.05 33643203.15 0.0299 0.0250

Saturn 87400-02-07 14:10 G 33643291.91 33643292.09 33643292.27 0.0299 0.0036

Saturn 87400-05-07 14:53 G 33643380.97 33643381.12 33643381.26 0.0300 0.0175

Earth 87400-09-09 07:12 G 33643505.73 33643505.80 33643505.86 0.2627 0.2137

Moon 87400-09-09 07:56 G 33643505.76 33643505.83 33643505.89 0.2630 0.2070 *

Mars 87401-03-02 02:53 G 33643679.55 33643679.62 33643679.69 0.1610 0.1280

Mars 87402-01-09 01:12 G 33643992.39 33643992.55 33643992.72 0.1932 0.0065

Jupiter 87403-02-03 11:46 G 33644382.87 33644382.99 33644383.12 0.0512 0.0131

Moon 87404-03-18 13:27 G 33644791.98 33644792.06 33644792.14 0.2702 0.2223

Earth 87404-03-18 14:24 G 33644792.04 33644792.10 33644792.16 0.2707 0.2461 *

Venus 87404-10-10 13:12 G 33644997.95 33644998.05 33644998.15 0.3624 0.0634

Mars 87408-08-17 12:00 G 33646404.89 33646405.00 33646405.11 0.1599 0.0542

Jupiter 87409-04-01 22:48 G 33646632.37 33646632.45 33646632.54 0.0514 0.0449

Venus 87410-04-26 04:20 G 33647021.62 33647021.68 33647021.75 0.3624 0.2841

Mars 87410-07-23 14:10 G 33647109.99 33647110.09 33647110.19 0.1608 0.0916

Neptune 87410-09-13 12:58 G 33647161.98 33647162.04 33647162.14 0.0090 0.0081

Neptune 87410-12-10 16:34 G 33647250.08 33647250.19 33647250.31 0.0090 0.0070

Neptune 87411-03-08 19:41 G 33647338.20 33647338.32 33647338.48 0.0090 0.0060

Mars 87411-05-31 18:00 G 33647422.12 33647422.25 33647422.38 0.1935 0.1176

Neptune 87411-06-04 23:17 G 33647426.32 33647426.47 33647426.63 0.0090 0.0049

Neptune 87411-09-01 02:24 G 33647514.45 33647514.60 33647514.78 0.0090 0.0039

Neptune 87411-11-28 05:46 G 33647602.57 33647602.74 33647602.93 0.0090 0.0028

Neptune 87412-02-24 09:22 G 33647690.71 33647690.89 33647691.07 0.0090 0.0017

Neptune 87412-05-22 12:29 G 33647778.84 33647779.02 33647779.21 0.0090 0.0007

Neptune 87412-08-18 15:51 G 33647866.98 33647867.16 33647867.34 0.0090 0.0004

Neptune 87412-11-14 18:58 G 33647955.11 33647955.29 33647955.48 0.0090 0.0014

Neptune 87413-02-10 22:05 G 33648043.25 33648043.42 33648043.61 0.0090 0.0025

Neptune 87413-05-10 01:27 G 33648131.40 33648131.56 33648131.73 0.0090 0.0035

Neptune 87413-08-06 04:20 G 33648219.54 33648219.68 33648219.86 0.0090 0.0046

Earth 87413-09-12 01:27 G 33648256.45 33648256.56 33648256.67 0.2627 0.0816

Moon 87413-09-12 02:10 G 33648256.48 33648256.59 33648256.70 0.2625 0.0749 *

Neptune 87413-11-02 07:41 G 33648307.69 33648307.82 33648307.97 0.0090 0.0056

Saturn 87413-12-06 11:17 G 33648341.87 33648341.97 33648342.08 0.0263 0.0166

Neptune 87414-01-29 10:48 G 33648395.84 33648395.95 33648396.09 0.0090 0.0066

Saturn 87414-03-04 21:22 G 33648430.26 33648430.39 33648430.53 0.0263 0.0062

Neptune 87414-04-27 14:10 G 33648484.00 33648484.09 33648484.19 0.0090 0.0076

Saturn 87414-06-01 07:41 G 33648518.69 33648518.82 33648518.95 0.0262 0.0043

Neptune 87414-07-24 17:17 G 33648572.18 33648572.22 33648572.28 0.0090 0.0086

Saturn 87414-08-28 18:00 G 33648607.13 33648607.25 33648607.36 0.0262 0.0148

Jupiter 87414-11-22 16:05 G 33648693.07 33648693.17 33648693.28 0.0512 0.0301

Saturn 87414-11-25 04:05 G 33648695.65 33648695.67 33648695.71 0.0262 0.0254

Jupiter 87415-02-19 21:36 G 33648782.31 33648782.40 33648782.48 0.0510 0.0380

Mars 87418-01-07 23:32 G 33649835.38 33649835.48 33649835.58 0.1597 0.0883

Mars 87419-12-14 01:27 G 33650540.45 33650540.56 33650540.67 0.1605 0.0551

Jupiter 87421-04-19 04:48 G 33651032.55 33651032.70 33651032.84 0.0516 0.0283

Earth 87424-03-13 12:29 G 33652091.93 33652092.02 33652092.11 0.2706 0.2100

Moon 87424-03-13 13:27 G 33652091.96 33652092.06 33652092.16 0.2699 0.1984 *

Venus 87425-05-21 02:39 G 33652525.47 33652525.61 33652525.75 0.3749 0.1412

Jupiter 87426-09-10 20:39 G 33653003.31 33653003.36 33653003.41 0.0513 0.0466

Earth 87426-09-14 19:56 G 33653007.22 33653007.33 33653007.44 0.2626 0.0532

Moon 87426-09-14 20:10 G 33653007.23 33653007.34 33653007.46 0.2620 0.0618 *

Jupiter 87426-12-09 01:56 G 33653092.46 33653092.58 33653092.70 0.0510 0.0214

Mars 87427-05-31 11:17 G 33653265.90 33653265.97 33653266.04 0.1596 0.1220

Mars 87429-05-05 12:44 G 33653970.92 33653971.03 33653971.15 0.1603 0.0202

Saturn 87429-06-27 13:41 G 33654023.90 33654024.07 33654024.25 0.0299 0.0087

Saturn 87429-09-24 14:24 G 33654112.94 33654113.10 33654113.27 0.0299 0.0125

Mars 87432-02-18 08:39 G 33654989.75 33654989.86 33654989.98 0.1928 0.1341

Jupiter 87433-02-05 01:56 G 33655342.40 33655342.58 33655342.76 0.0515 0.0036

Uranus 87435-02-15 00:29 G 33656082.48 33656082.52 33656082.57 0.0144 0.0134

Uranus 87435-05-14 04:20 G 33656170.60 33656170.68 33656170.77 0.0144 0.0112

Uranus 87435-08-10 07:56 G 33656258.73 33656258.83 33656258.94 0.0144 0.0090

Uranus 87435-11-06 11:46 G 33656346.88 33656346.99 33656347.12 0.0144 0.0067

Uranus 87436-02-02 15:36 G 33656435.03 33656435.15 33656435.29 0.0144 0.0045

Uranus 87436-04-30 19:27 G 33656523.18 33656523.31 33656523.45 0.0144 0.0022

Uranus 87436-07-27 23:32 G 33656611.34 33656611.48 33656611.61 0.0144 0.0003

Mars 87436-10-20 23:03 G 33656696.44 33656696.46 33656696.48 0.1594 0.1558

Uranus 87436-10-24 03:22 G 33656699.51 33656699.64 33656699.77 0.0144 0.0024

Uranus 87437-01-20 07:12 G 33656787.67 33656787.80 33656787.93 0.0144 0.0047

Moon 87437-03-16 16:34 G 33656843.04 33656843.19 33656843.34 0.2700 0.0372

Earth 87437-03-16 16:48 G 33656843.06 33656843.20 33656843.34 0.2706 0.0459 *

Uranus 87437-04-18 11:03 G 33656875.85 33656875.96 33656876.09 0.0144 0.0071

Uranus 87437-07-15 15:08 G 33656964.03 33656964.13 33656964.23 0.0144 0.0094

Uranus 87437-10-11 19:12 G 33657052.22 33657052.30 33657052.38 0.0144 0.0117

Uranus 87438-01-07 23:03 G 33657140.44 33657140.46 33657140.49 0.0144 0.0141

Mars 87438-09-26 00:15 G 33657401.40 33657401.51 33657401.63 0.1601 0.0172

Jupiter 87438-09-27 06:15 G 33657402.63 33657402.76 33657402.89 0.0511 0.0047

Moon 87439-09-17 14:24 G 33657758.01 33657758.10 33657758.18 0.2620 0.1819

Earth 87439-09-17 14:24 G 33657758.02 33657758.10 33657758.18 0.2626 0.1909 *

Mars 87440-08-31 02:53 G 33658106.55 33658106.62 33658106.69 0.1610 0.1317

Mars 87441-07-10 01:56 G 33658419.42 33658419.58 33658419.75 0.1932 0.0142

Saturn 87443-04-25 14:10 G 33659074.01 33659074.09 33659074.19 0.0264 0.0195

Saturn 87443-07-23 00:15 G 33659162.39 33659162.51 33659162.64 0.0263 0.0092

Saturn 87443-10-19 10:34 G 33659250.80 33659250.94 33659251.07 0.0263 0.0014

Saturn 87444-01-15 20:39 G 33659339.24 33659339.36 33659339.48 0.0262 0.0118

Saturn 87444-04-13 06:58 G 33659427.72 33659427.79 33659427.86 0.0262 0.0224

Jupiter 87444-11-23 22:48 G 33659652.29 33659652.45 33659652.61 0.0515 0.0214

Earth 87446-09-10 12:00 G 33660307.92 33660308.00 33660308.08 0.2627 0.1879

Moon 87446-09-10 12:44 G 33660307.95 33660308.03 33660308.12 0.2629 0.1745 *

Mars 87448-02-16 11:46 G 33660831.88 33660831.99 33660832.10 0.1599 0.0513

Mars 87450-01-21 14:10 G 33661536.99 33661537.09 33661537.18 0.1608 0.0947

Venus 87450-04-18 04:05 G 33661623.61 33661623.67 33661623.73 0.3624 0.2897

Jupiter 87450-07-16 10:34 G 33661712.81 33661712.94 33661713.07 0.0511 0.0124

Mars 87450-11-29 18:29 G 33661849.14 33661849.27 33661849.41 0.1936 0.1112

Venus 87455-11-01 19:12 G 33663647.20 33663647.30 33663647.40 0.3624 0.0751

Jupiter 87456-09-11 19:56 G 33663962.25 33663962.33 33663962.41 0.0514 0.0460

Mars 87457-07-08 23:32 G 33664262.38 33664262.48 33664262.58 0.1597 0.0850

Saturn 87458-11-14 13:12 G 33664755.89 33664756.05 33664756.21 0.0299 0.0138

Saturn 87459-02-11 13:56 G 33664844.91 33664845.08 33664845.26 0.0299 0.0075

Saturn 87459-05-11 14:24 G 33664934.05 33664934.10 33664934.16 0.0300 0.0284

Mars 87459-06-14 01:27 G 33664967.45 33664967.56 33664967.67 0.1605 0.0584

Earth 87459-09-13 06:15 G 33665058.65 33665058.76 33665058.88 0.2627 0.0558

Moon 87459-09-13 06:58 G 33665058.68 33665058.79 33665058.91 0.2624 0.0456 *

Venus 87461-05-17 10:34 G 33665670.84 33665670.94 33665671.03 0.3624 0.1443

Jupiter 87462-05-04 14:10 G 33666022.99 33666023.09 33666023.20 0.0512 0.0307

Jupiter 87462-08-01 19:41 G 33666112.23 33666112.32 33666112.41 0.0510 0.0374

Pluto 87464-11-27 13:12 G 33666960.98 33666961.05 33666961.16 0.0061 0.0053

Pluto 87465-02-23 14:24 G 33667048.98 33667049.10 33667049.24 0.0062 0.0042

Pluto 87465-05-22 15:22 G 33667137.00 33667137.14 33667137.30 0.0062 0.0032

Pluto 87465-08-18 16:34 G 33667225.03 33667225.19 33667225.36 0.0062 0.0021

Pluto 87465-11-14 17:32 G 33667313.07 33667313.23 33667313.41 0.0062 0.0011

Pluto 87466-02-10 18:44 G 33667401.11 33667401.28 33667401.46 0.0062 0.0001

Pluto 87466-05-09 19:41 G 33667489.15 33667489.32 33667489.50 0.0062 0.0011

Pluto 87466-08-05 20:39 G 33667577.20 33667577.36 33667577.53 0.0062 0.0021

Pluto 87466-11-01 21:22 G 33667665.26 33667665.39 33667665.56 0.0062 0.0032

Mars 87466-11-29 11:17 G 33667692.89 33667692.97 33667693.04 0.1596 0.1190

Pluto 87467-01-28 22:34 G 33667753.33 33667753.44 33667753.58 0.0062 0.0043

Pluto 87467-04-26 23:32 G 33667841.41 33667841.48 33667841.59 0.0062 0.0053

Jupiter 87468-09-29 02:39 G 33668362.46 33668362.61 33668362.76 0.0516 0.0286

Mars 87468-11-03 12:44 G 33668397.92 33668398.03 33668398.15 0.1603 0.0235

Earth 87470-03-14 18:44 G 33668894.16 33668894.28 33668894.40 0.2706 0.1622

Moon 87470-03-14 19:27 G 33668894.19 33668894.31 33668894.43 0.2700 0.1509 *

Mars 87471-08-19 09:36 G 33669416.80 33669416.90 33669417.01 0.1928 0.1427

Saturn 87472-09-11 18:00 G 33669806.18 33669806.25 33669806.33 0.0263 0.0216

Earth 87472-09-15 00:58 G 33669809.42 33669809.54 33669809.65 0.2626 0.0813

Moon 87472-09-15 01:12 G 33669809.44 33669809.55 33669809.66 0.2620 0.0805 *

Saturn 87472-12-09 04:05 G 33669894.55 33669894.67 33669894.79 0.0263 0.0112

Saturn 87473-03-07 14:10 G 33669982.96 33669983.09 33669983.23 0.0262 0.0010

Saturn 87473-06-04 00:29 G 33670071.39 33670071.52 33670071.64 0.0262 0.0097

Saturn 87473-08-31 10:34 G 33670159.86 33670159.94 33670160.03 0.0262 0.0203

Jupiter 87474-02-20 18:29 G 33670333.23 33670333.27 33670333.32 0.0513 0.0477

Jupiter 87474-05-20 23:46 G 33670422.37 33670422.49 33670422.61 0.0511 0.0204

Mars 87476-04-20 23:03 G 33671123.43 33671123.46 33671123.49 0.1594 0.1522

Uranus 87477-03-03 21:36 G 33671440.31 33671440.40 33671440.51 0.0134 0.0114

Uranus 87477-05-31 04:34 G 33671528.55 33671528.69 33671528.83 0.0134 0.0088

Uranus 87477-08-27 11:03 G 33671616.80 33671616.96 33671617.13 0.0134 0.0062

Uranus 87477-11-23 18:00 G 33671705.07 33671705.25 33671705.43 0.0134 0.0037

Uranus 87478-02-20 00:29 G 33671793.34 33671793.52 33671793.71 0.0134 0.0011

Mars 87478-03-27 00:15 G 33671828.40 33671828.51 33671828.63 0.1601 0.0134

Uranus 87478-05-19 07:12 G 33671881.61 33671881.80 33671881.98 0.0134 0.0014

Uranus 87478-08-15 13:27 G 33671969.89 33671970.06 33671970.25 0.0134 0.0040

Uranus 87478-11-11 19:56 G 33672058.18 33672058.33 33672058.50 0.0134 0.0065

Uranus 87479-02-08 02:24 G 33672146.47 33672146.60 33672146.75 0.0134 0.0089

Uranus 87479-05-07 08:53 G 33672234.78 33672234.87 33672234.97 0.0134 0.0114

Mars 87480-03-01 02:53 G 33672533.56 33672533.62 33672533.68 0.1610 0.1350

Jupiter 87480-07-17 23:17 G 33672672.29 33672672.47 33672672.64 0.0515 0.0030

Mars 87481-01-08 02:39 G 33672846.45 33672846.61 33672846.78 0.1932 0.0220

Moon 87483-03-17 22:34 G 33673645.30 33673645.44 33673645.58 0.2700 0.0880

Earth 87483-03-17 23:03 G 33673645.32 33673645.46 33673645.60 0.2706 0.0931 *

Moon 87485-09-17 18:58 G 33674560.23 33674560.29 33674560.36 0.2620 0.2179

Earth 87485-09-17 19:27 G 33674560.25 33674560.31 33674560.37 0.2626 0.2184 *

Jupiter 87486-03-09 04:20 G 33674732.55 33674732.68 33674732.81 0.0511 0.0038

Mars 87487-08-17 12:00 G 33675258.88 33675259.00 33675259.11 0.1599 0.0478

Saturn 87488-04-02 12:29 G 33675487.88 33675488.02 33675488.16 0.0299 0.0191

Saturn 87488-06-30 13:27 G 33675576.88 33675577.06 33675577.24 0.0299 0.0023

Saturn 87488-09-27 13:56 G 33675665.97 33675666.08 33675666.19 0.0300 0.0233

Mars 87489-07-22 14:10 G 33675963.99 33675964.09 33675964.18 0.1608 0.0981

Mars 87490-05-30 19:41 G 33676276.18 33676276.32 33676276.46 0.1935 0.1017

Neptune 87491-12-19 09:08 G 33676843.87 33676843.88 33676843.91 0.0088 0.0087

Neptune 87492-03-16 10:34 G 33676931.89 33676931.94 33676932.00 0.0088 0.0080

Jupiter 87492-05-05 20:10 G 33676982.18 33676982.34 33676982.50 0.0514 0.0220

Neptune 87492-06-12 11:46 G 33677019.93 33677019.99 33677020.08 0.0088 0.0073

Neptune 87492-09-08 13:12 G 33677107.97 33677108.05 33677108.15 0.0088 0.0066

Earth 87492-09-10 17:03 G 33677110.12 33677110.21 33677110.29 0.2627 0.1616

Moon 87492-09-10 17:46 G 33677110.15 33677110.24 33677110.33 0.2629 0.1562 *

Neptune 87492-12-05 14:53 G 33677196.02 33677196.12 33677196.22 0.0088 0.0058

Neptune 87493-03-03 16:20 G 33677284.07 33677284.18 33677284.29 0.0088 0.0051

Neptune 87493-05-30 17:32 G 33677372.12 33677372.23 33677372.35 0.0088 0.0044

Neptune 87493-08-26 18:58 G 33677460.17 33677460.29 33677460.42 0.0088 0.0037

Neptune 87493-11-22 20:24 G 33677548.22 33677548.35 33677548.48 0.0088 0.0029

Neptune 87494-02-18 21:36 G 33677636.28 33677636.40 33677636.54 0.0088 0.0023

Neptune 87494-05-17 23:17 G 33677724.33 33677724.47 33677724.61 0.0088 0.0015

Neptune 87494-08-14 00:44 G 33677812.39 33677812.53 33677812.67 0.0088 0.0008

Neptune 87494-11-10 02:10 G 33677900.45 33677900.59 33677900.73 0.0088 0.0002

Neptune 87495-02-06 03:22 G 33677988.51 33677988.64 33677988.78 0.0088 0.0008

Neptune 87495-05-05 04:48 G 33678076.57 33678076.70 33678076.84 0.0088 0.0015

Neptune 87495-08-01 06:15 G 33678164.63 33678164.76 33678164.90 0.0088 0.0022

Neptune 87495-10-28 07:56 G 33678252.70 33678252.83 33678252.96 0.0088 0.0029

Neptune 87496-01-24 09:08 G 33678340.76 33678340.88 33678341.01 0.0088 0.0037

Neptune 87496-04-21 10:34 G 33678428.83 33678428.94 33678429.07 0.0088 0.0044

Neptune 87496-07-18 12:00 G 33678516.89 33678517.00 33678517.12 0.0088 0.0051

Neptune 87496-10-14 13:27 G 33678604.97 33678605.06 33678605.17 0.0088 0.0059

Mars 87497-01-06 23:32 G 33678689.38 33678689.48 33678689.58 0.1597 0.0820

Neptune 87497-01-10 15:08 G 33678693.04 33678693.13 33678693.22 0.0088 0.0066

Neptune 87497-04-08 16:20 G 33678781.12 33678781.18 33678781.26 0.0088 0.0074

Neptune 87497-07-05 18:00 G 33678869.20 33678869.25 33678869.30 0.0088 0.0081

Jupiter 87497-12-26 08:53 G 33679042.74 33679042.87 33679042.99 0.0512 0.0128

Mars 87498-12-13 01:27 G 33679394.45 33679394.56 33679394.67 0.1605 0.0617

Saturn 87502-01-30 20:39 G 33680538.32 33680538.36 33680538.41 0.0264 0.0247

Saturn 87502-04-29 06:44 G 33680626.67 33680626.78 33680626.90 0.0263 0.0143

Saturn 87502-07-26 16:48 G 33680715.07 33680715.20 33680715.34 0.0263 0.0040

Saturn 87502-10-23 03:08 G 33680803.50 33680803.63 33680803.76 0.0262 0.0066

Saturn 87503-01-19 13:12 G 33680891.95 33680892.05 33680892.16 0.0262 0.0171

Jupiter 87504-02-23 16:48 G 33681292.14 33681292.20 33681292.28 0.0514 0.0472

Earth 87505-09-14 11:17 G 33681860.86 33681860.97 33681861.09 0.2627 0.0283

Moon 87505-09-14 12:00 G 33681860.88 33681861.00 33681861.11 0.2622 0.0213 *

Mars 87506-05-31 11:17 G 33682119.89 33682119.97 33682120.05 0.1596 0.1158

Venus 87506-11-24 01:27 G 33682296.48 33682296.56 33682296.64 0.3624 0.2099

Mars 87508-05-05 12:44 G 33682824.91 33682825.03 33682825.15 0.1603 0.0256

Jupiter 87509-10-15 13:12 G 33683352.94 33683353.05 33683353.15 0.0512 0.0296

Jupiter 87510-01-12 18:29 G 33683442.19 33683442.27 33683442.36 0.0510 0.0384

Mars 87511-02-18 10:05 G 33683843.82 33683843.92 33683844.02 0.1928 0.1481

Venus 87512-06-08 16:34 G 33684320.09 33684320.19 33684320.29 0.3624 0.0071

Mars 87515-10-21 22:48 G 33685550.42 33685550.45 33685550.49 0.1594 0.1492

Jupiter 87516-03-12 00:00 G 33685692.35 33685692.50 33685692.65 0.0516 0.0280

Earth 87516-03-16 00:58 G 33685696.41 33685696.54 33685696.68 0.2706 0.1139

Moon 87516-03-16 01:27 G 33685696.43 33685696.56 33685696.70 0.2700 0.1126 *

Saturn 87517-08-21 10:48 G 33686219.86 33686219.95 33686220.06 0.0299 0.0250

Mars 87517-09-26 00:15 G 33686255.40 33686255.51 33686255.63 0.1601 0.0103

Saturn 87517-11-18 12:00 G 33686308.83 33686309.00 33686309.18 0.0299 0.0036

Venus 87517-12-23 07:56 G 33686343.75 33686343.83 33686343.91 0.3624 0.2256

Saturn 87518-02-15 12:44 G 33686397.89 33686398.03 33686398.18 0.0300 0.0176

Moon 87518-09-17 06:00 G 33686611.64 33686611.75 33686611.85 0.2620 0.1121

Earth 87518-09-17 05:46 G 33686611.64 33686611.74 33686611.85 0.2626 0.1076 *

Uranus 87519-03-08 07:41 G 33686783.78 33686783.82 33686783.90 0.0144 0.0128

Uranus 87519-06-04 11:46 G 33686871.90 33686871.99 33686872.08 0.0144 0.0105

Uranus 87519-08-31 15:22 G 33686960.04 33686960.14 33686960.26 0.0144 0.0083

Mars 87519-09-01 02:53 G 33686960.56 33686960.62 33686960.68 0.1610 0.1380

Uranus 87519-11-27 19:27 G 33687048.19 33687048.31 33687048.43 0.0144 0.0060

Uranus 87520-02-23 23:03 G 33687136.34 33687136.46 33687136.60 0.0144 0.0038

Uranus 87520-05-22 03:08 G 33687224.49 33687224.63 33687224.76 0.0144 0.0015

Mars 87520-07-10 03:51 G 33687273.50 33687273.66 33687273.82 0.1932 0.0306

Uranus 87520-08-18 06:58 G 33687312.65 33687312.79 33687312.92 0.0144 0.0009

Uranus 87520-11-14 10:48 G 33687400.82 33687400.95 33687401.08 0.0144 0.0031

Uranus 87521-02-10 14:39 G 33687488.99 33687489.11 33687489.24 0.0144 0.0054

Uranus 87521-05-09 18:29 G 33687577.16 33687577.27 33687577.39 0.0144 0.0078

Jupiter 87521-08-03 16:48 G 33687663.16 33687663.20 33687663.25 0.0513 0.0479

Uranus 87521-08-05 22:20 G 33687665.34 33687665.43 33687665.54 0.0144 0.0101

Jupiter 87521-10-31 22:05 G 33687752.30 33687752.42 33687752.54 0.0511 0.0201

Uranus 87521-11-02 02:24 G 33687753.54 33687753.60 33687753.67 0.0144 0.0124

Mars 87527-02-16 11:46 G 33689685.88 33689685.99 33689686.11 0.1599 0.0445

Jupiter 87527-12-29 21:36 G 33690002.22 33690002.40 33690002.58 0.0515 0.0039

Mars 87529-01-21 14:10 G 33690391.00 33690391.09 33690391.18 0.1608 0.1015

Moon 87529-03-19 04:34 G 33690447.56 33690447.69 33690447.82 0.2700 0.1312

Earth 87529-03-19 05:17 G 33690447.59 33690447.72 33690447.84 0.2707 0.1396 *

Mars 87529-11-29 20:24 G 33690703.21 33690703.35 33690703.49 0.1935 0.0939

Saturn 87531-09-16 10:20 G 33691358.83 33691358.93 33691359.04 0.0263 0.0165

Moon 87531-09-19 23:46 G 33691362.44 33691362.49 33691362.54 0.2620 0.2352

Earth 87531-09-20 00:15 G 33691362.48 33691362.51 33691362.55 0.2626 0.2466 *

Saturn 87531-12-13 20:24 G 33691447.22 33691447.35 33691447.48 0.0263 0.0062

Saturn 87532-03-11 06:29 G 33691535.64 33691535.77 33691535.91 0.0262 0.0044

Saturn 87532-06-07 16:48 G 33691624.09 33691624.20 33691624.31 0.0262 0.0148

Saturn 87532-09-04 02:53 G 33691712.60 33691712.62 33691712.66 0.0261 0.0254

Venus 87533-01-16 21:08 G 33691847.24 33691847.38 33691847.52 0.3749 0.1525

Jupiter 87533-08-20 02:24 G 33692062.47 33692062.60 33692062.73 0.0511 0.0030

Mars 87536-07-08 23:32 G 33693116.38 33693116.48 33693116.58 0.1597 0.0785

Mars 87538-06-14 01:27 G 33693821.45 33693821.56 33693821.67 0.1605 0.0651

Earth 87538-09-12 21:51 G 33693912.31 33693912.41 33693912.51 0.2627 0.1352

Moon 87538-09-12 22:34 G 33693912.34 33693912.44 33693912.54 0.2628 0.1199 *

Jupiter 87539-10-17 18:00 G 33694312.09 33694312.25 33694312.41 0.0514 0.0219

Jupiter 87545-06-08 06:58 G 33696372.66 33696372.79 33696372.91 0.0512 0.0135

Mars 87545-11-29 11:17 G 33696546.88 33696546.97 33696547.05 0.1596 0.1125

Saturn 87547-04-07 11:03 G 33697040.79 33697040.96 33697041.13 0.0299 0.0091

Saturn 87547-07-05 11:46 G 33697129.83 33697129.99 33697130.16 0.0300 0.0121

Mars 87547-11-04 12:44 G 33697251.92 33697252.03 33697252.15 0.1603 0.0297

Mars 87550-08-19 11:17 G 33698270.87 33698270.97 33698271.06 0.1928 0.1570

Jupiter 87551-08-05 14:53 G 33698622.05 33698622.12 33698622.19 0.0514 0.0469

Earth 87551-09-15 16:20 G 33698663.06 33698663.18 33698663.29 0.2627 0.0088

Moon 87551-09-15 16:48 G 33698663.08 33698663.20 33698663.31 0.2621 0.0031 *

Mars 87555-04-21 22:48 G 33699977.41 33699977.45 33699977.50 0.1594 0.1461

Pluto 87557-01-02 23:17 G 33700599.41 33700599.47 33700599.55 0.0082 0.0072

Mars 87557-03-27 00:15 G 33700682.39 33700682.51 33700682.63 0.1601 0.0065

Jupiter 87557-03-27 11:32 G 33700682.88 33700682.98 33700683.09 0.0512 0.0296

Pluto 87557-04-01 00:44 G 33700687.43 33700687.53 33700687.65 0.0082 0.0051

Jupiter 87557-06-24 16:48 G 33700772.12 33700772.20 33700772.29 0.0510 0.0385

Pluto 87557-06-28 02:10 G 33700775.46 33700775.59 33700775.73 0.0082 0.0031

Pluto 87557-09-24 03:36 G 33700863.51 33700863.65 33700863.80 0.0082 0.0011

Venus 87557-12-15 07:41 G 33700945.79 33700945.82 33700945.85 0.3624 0.3446

Pluto 87557-12-21 05:03 G 33700951.57 33700951.71 33700951.86 0.0082 0.0010

Pluto 87558-03-19 06:29 G 33701039.64 33701039.77 33701039.91 0.0082 0.0030

Pluto 87558-06-15 07:41 G 33701127.72 33701127.82 33701127.94 0.0082 0.0050

Pluto 87558-09-11 08:53 G 33701215.82 33701215.87 33701215.96 0.0081 0.0071

Mars 87559-03-02 02:53 G 33701387.56 33701387.62 33701387.67 0.1610 0.1416

Mars 87560-01-09 04:20 G 33701700.52 33701700.68 33701700.84 0.1932 0.0369

Uranus 87560-12-26 22:05 G 33702053.40 33702053.42 33702053.47 0.0134 0.0132

Saturn 87561-02-02 12:58 G 33702090.95 33702091.04 33702091.13 0.0263 0.0198

Uranus 87561-03-25 05:03 G 33702141.60 33702141.71 33702141.83 0.0134 0.0105

Saturn 87561-05-01 23:03 G 33702179.33 33702179.46 33702179.58 0.0263 0.0094

Uranus 87561-06-21 11:46 G 33702229.85 33702229.99 33702230.15 0.0134 0.0080

Saturn 87561-07-29 09:08 G 33702267.74 33702267.88 33702268.01 0.0262 0.0011

Uranus 87561-09-17 18:29 G 33702318.11 33702318.27 33702318.45 0.0134 0.0054

Saturn 87561-10-25 19:12 G 33702356.18 33702356.30 33702356.42 0.0262 0.0114

Uranus 87561-12-15 01:12 G 33702406.37 33702406.55 33702406.74 0.0134 0.0029

Saturn 87562-01-22 05:17 G 33702444.66 33702444.72 33702444.80 0.0262 0.0220

Uranus 87562-03-13 07:56 G 33702494.64 33702494.83 33702495.02 0.0134 0.0003

Moon 87562-03-17 07:27 G 33702498.66 33702498.81 33702498.96 0.2699 0.0562

Earth 87562-03-17 07:27 G 33702498.66 33702498.81 33702498.95 0.2706 0.0655 *

Uranus 87562-06-09 14:24 G 33702582.92 33702583.10 33702583.29 0.0134 0.0022

Uranus 87562-09-05 20:53 G 33702671.20 33702671.37 33702671.55 0.0134 0.0048

Uranus 87562-12-03 03:22 G 33702759.49 33702759.64 33702759.80 0.0134 0.0072

Uranus 87563-03-01 09:51 G 33702847.79 33702847.91 33702848.04 0.0134 0.0097

Uranus 87563-05-28 16:34 G 33702936.11 33702936.19 33702936.26 0.0134 0.0122

Venus 87563-06-30 22:48 G 33702969.35 33702969.45 33702969.54 0.3624 0.1309

Jupiter 87563-08-22 21:36 G 33703022.25 33703022.40 33703022.55 0.0516 0.0275

Moon 87564-09-17 10:48 G 33703413.85 33703413.95 33703414.05 0.2620 0.1359

Earth 87564-09-17 10:48 G 33703413.85 33703413.95 33703414.05 0.2626 0.1356 *

Mars 87566-08-17 11:46 G 33704112.88 33704112.99 33704113.10 0.1599 0.0413

Mars 87568-07-22 14:10 G 33704818.00 33704818.09 33704818.18 0.1608 0.1046

Venus 87569-01-13 13:56 G 33704992.98 33704993.08 33704993.18 0.3624 0.0866

Jupiter 87569-01-13 16:05 G 33704993.11 33704993.17 33704993.22 0.0513 0.0462 *

Jupiter 87569-04-12 21:22 G 33705082.27 33705082.39 33705082.50 0.0510 0.0217

Mars 87569-05-30 21:08 G 33705130.23 33705130.38 33705130.53 0.1936 0.0866

Earth 87571-09-11 08:24 G 33705963.81 33705963.85 33705963.90 0.2628 0.2404

Moon 87571-09-11 09:08 G 33705963.82 33705963.88 33705963.94 0.2631 0.2263 *

Venus 87574-07-30 05:17 G 33707016.66 33707016.72 33707016.77 0.3623 0.3073

Neptune 87575-03-15 07:41 G 33707244.80 33707244.82 33707244.87 0.0090 0.0088

Moon 87575-03-20 10:48 G 33707249.84 33707249.95 33707250.06 0.2700 0.1752

Earth 87575-03-20 11:32 G 33707249.87 33707249.98 33707250.08 0.2707 0.1867 *

Jupiter 87575-06-10 19:12 G 33707332.13 33707332.30 33707332.48 0.0515 0.0040

Neptune 87575-06-11 11:17 G 33707332.88 33707332.97 33707333.07 0.0090 0.0077

Neptune 87575-09-07 14:24 G 33707420.99 33707421.10 33707421.24 0.0090 0.0067

Neptune 87575-12-04 17:46 G 33707509.11 33707509.24 33707509.40 0.0090 0.0056

Mars 87576-01-07 23:32 G 33707543.37 33707543.48 33707543.58 0.1597 0.0753

Neptune 87576-03-01 21:22 G 33707597.23 33707597.39 33707597.55 0.0090 0.0045

Neptune 87576-05-29 00:29 G 33707685.36 33707685.52 33707685.70 0.0090 0.0035

Saturn 87576-08-24 08:24 G 33707772.69 33707772.85 33707773.00 0.0299 0.0160

Neptune 87576-08-25 04:05 G 33707773.49 33707773.67 33707773.85 0.0090 0.0024

Neptune 87576-11-21 07:12 G 33707861.62 33707861.80 33707861.99 0.0090 0.0014

Saturn 87576-11-21 09:22 G 33707861.71 33707861.89 33707862.06 0.0299 0.0054 *

Neptune 87577-02-17 10:34 G 33707949.76 33707949.94 33707950.13 0.0090 0.0004

Saturn 87577-02-18 09:51 G 33707950.83 33707950.91 33707950.99 0.0300 0.0264

Neptune 87577-05-16 13:56 G 33708037.90 33708038.08 33708038.26 0.0090 0.0008

Neptune 87577-08-12 17:03 G 33708126.04 33708126.21 33708126.40 0.0090 0.0018

Neptune 87577-11-08 20:24 G 33708214.18 33708214.35 33708214.53 0.0090 0.0029

Mars 87577-12-13 01:12 G 33708248.45 33708248.55 33708248.66 0.1605 0.0684

Neptune 87578-02-04 23:32 G 33708302.32 33708302.48 33708302.65 0.0090 0.0039

Neptune 87578-05-04 02:39 G 33708390.47 33708390.61 33708390.78 0.0090 0.0050

Neptune 87578-07-31 05:46 G 33708478.62 33708478.74 33708478.89 0.0090 0.0060

Neptune 87578-10-27 09:08 G 33708566.78 33708566.88 33708567.00 0.0090 0.0070

Neptune 87579-01-23 12:29 G 33708654.94 33708655.02 33708655.10 0.0090 0.0080

Jupiter 87581-01-30 00:58 G 33709392.41 33709392.54 33709392.67 0.0511 0.0034

Earth 87584-09-13 02:39 G 33710714.51 33710714.61 33710714.72 0.2627 0.1090

Moon 87584-09-13 03:36 G 33710714.54 33710714.65 33710714.75 0.2626 0.1057 *

Mars 87585-05-30 11:03 G 33710973.88 33710973.96 33710974.05 0.1596 0.1094

Jupiter 87587-03-29 16:48 G 33711642.04 33711642.20 33711642.37 0.0514 0.0202

Mars 87587-05-05 12:44 G 33711678.92 33711679.03 33711679.15 0.1603 0.0326

Venus 87589-08-23 23:17 G 33712520.33 33712520.47 33712520.62 0.3749 0.1211

Mars 87590-02-17 12:00 G 33712697.92 33712698.00 33712698.08 0.1928 0.1647

Saturn 87590-06-22 16:20 G 33712823.11 33712823.18 33712823.25 0.0263 0.0222

Saturn 87590-09-19 02:10 G 33712911.48 33712911.59 33712911.71 0.0263 0.0120

Saturn 87590-12-16 12:29 G 33712999.88 33713000.02 33713000.15 0.0262 0.0017

Saturn 87591-03-14 22:34 G 33713088.31 33713088.44 33713088.57 0.0262 0.0089

Saturn 87591-06-11 08:39 G 33713176.77 33713176.86 33713176.95 0.0261 0.0194

Jupiter 87592-11-18 05:03 G 33713702.59 33713702.71 33713702.84 0.0512 0.0140

Mars 87594-10-20 22:48 G 33714404.40 33714404.45 33714404.50 0.1594 0.1426

Moon 87595-03-15 10:05 G 33714549.87 33714549.92 33714549.97 0.2701 0.2538

Mars 87596-09-25 00:15 G 33715109.39 33715109.51 33715109.63 0.1601 0.0034

Earth 87597-09-15 21:08 G 33715465.27 33715465.38 33715465.50 0.2626 0.0261

Moon 87597-09-15 21:36 G 33715465.29 33715465.40 33715465.52 0.2621 0.0383 *

Mars 87598-08-31 02:53 G 33715814.57 33715814.62 33715814.67 0.1610 0.1449

Jupiter 87599-01-15 13:12 G 33715951.98 33715952.05 33715952.14 0.0513 0.0458

Mars 87599-07-10 05:17 G 33716127.56 33716127.72 33716127.88 0.1932 0.0454

Uranus 87602-12-30 11:46 G 33717396.98 33717396.99 33717397.02 0.0144 0.0142

Uranus 87603-03-28 15:51 G 33717485.08 33717485.16 33717485.23 0.0144 0.0119

Uranus 87603-06-24 19:27 G 33717573.22 33717573.31 33717573.41 0.0144 0.0097

Uranus 87603-09-20 23:17 G 33717661.36 33717661.47 33717661.59 0.0144 0.0075

Uranus 87603-12-18 03:08 G 33717749.50 33717749.63 33717749.76 0.0144 0.0052

Uranus 87604-03-15 06:58 G 33717837.66 33717837.79 33717837.92 0.0144 0.0029

Uranus 87604-06-11 10:48 G 33717925.81 33717925.95 33717926.09 0.0144 0.0006

Jupiter 87604-09-06 09:36 G 33718012.80 33718012.90 33718013.01 0.0513 0.0302

Uranus 87604-09-07 14:39 G 33718013.98 33718014.11 33718014.25 0.0144 0.0017

Jupiter 87604-12-04 15:08 G 33718102.05 33718102.13 33718102.22 0.0510 0.0381

Uranus 87604-12-04 18:29 G 33718102.14 33718102.27 33718102.40 0.0144 0.0040 *

Uranus 87605-03-02 22:20 G 33718190.31 33718190.43 33718190.56 0.0144 0.0063

Uranus 87605-05-30 02:24 G 33718278.49 33718278.60 33718278.71 0.0144 0.0086

Uranus 87605-08-26 06:00 G 33718366.68 33718366.75 33718366.85 0.0144 0.0110

Uranus 87605-11-22 10:05 G 33718454.88 33718454.92 33718454.98 0.0144 0.0133

Saturn 87606-01-11 06:29 G 33718504.66 33718504.77 33718504.90 0.0299 0.0221

Mars 87606-02-15 11:46 G 33718539.88 33718539.99 33718540.11 0.1599 0.0377

Saturn 87606-04-10 07:41 G 33718593.64 33718593.82 33718594.00 0.0300 0.0008

Saturn 87606-07-08 08:24 G 33718682.72 33718682.85 33718682.98 0.0300 0.0205

Mars 87608-01-21 14:10 G 33719245.00 33719245.09 33719245.17 0.1608 0.1081

Moon 87608-03-17 13:27 G 33719300.91 33719301.06 33719301.21 0.2699 0.0294

Earth 87608-03-17 13:41 G 33719300.92 33719301.07 33719301.21 0.2706 0.0192 *

Mars 87608-11-28 22:05 G 33719557.27 33719557.42 33719557.57 0.1935 0.0781

Moon 87610-09-18 15:36 G 33720216.05 33720216.15 33720216.24 0.2620 0.1577

Earth 87610-09-18 15:36 G 33720216.06 33720216.15 33720216.24 0.2626 0.1628 *

Jupiter 87611-02-01 19:56 G 33720352.18 33720352.33 33720352.48 0.0515 0.0285

Venus 87614-07-22 04:48 G 33721618.64 33721618.70 33721618.77 0.3624 0.2659

Mars 87615-07-08 23:32 G 33721970.37 33721970.48 33721970.58 0.1597 0.0725

Jupiter 87616-06-25 14:24 G 33722323.05 33722323.10 33722323.16 0.0513 0.0461

Jupiter 87616-09-22 19:41 G 33722412.21 33722412.32 33722412.44 0.0511 0.0220

Mars 87617-06-13 01:27 G 33722675.45 33722675.56 33722675.66 0.1605 0.0717

Earth 87617-09-11 13:27 G 33722765.99 33722766.06 33722766.12 0.2627 0.2145

Moon 87617-09-11 13:56 G 33722766.02 33722766.08 33722766.15 0.2631 0.2122 *

Saturn 87619-11-09 18:44 G 33723555.25 33723555.28 33723555.31 0.0263 0.0256

Venus 87620-02-04 20:10 G 33723642.23 33723642.34 33723642.44 0.3623 0.0524

Saturn 87620-02-06 04:34 G 33723643.59 33723643.69 33723643.80 0.0263 0.0154

Saturn 87620-05-04 14:39 G 33723731.98 33723732.11 33723732.25 0.0262 0.0050

Saturn 87620-08-01 00:44 G 33723820.40 33723820.53 33723820.67 0.0262 0.0055

Saturn 87620-10-28 11:03 G 33723908.85 33723908.96 33723909.07 0.0262 0.0159

Moon 87621-03-20 16:48 G 33724052.12 33724052.20 33724052.28 0.2702 0.2268

Earth 87621-03-20 17:46 G 33724052.16 33724052.24 33724052.31 0.2707 0.2331 *

Jupiter 87622-11-20 17:03 G 33724662.04 33724662.21 33724662.39 0.0515 0.0040

Mars 87624-11-28 11:03 G 33725400.88 33725400.96 33725401.05 0.1596 0.1061

Venus 87625-08-20 11:17 G 33725665.88 33725665.97 33725666.06 0.3623 0.1680

Mars 87626-11-03 12:44 G 33726105.91 33726106.03 33726106.15 0.1603 0.0354

Jupiter 87628-07-12 00:15 G 33726722.38 33726722.51 33726722.64 0.0511 0.0054

Mars 87629-08-18 12:29 G 33727124.95 33727125.02 33727125.09 0.1928 0.1708

Earth 87630-09-14 07:41 G 33727516.71 33727516.82 33727516.93 0.2627 0.0821

Moon 87630-09-14 08:24 G 33727516.74 33727516.85 33727516.96 0.2624 0.0664 *

Mars 87634-04-20 22:48 G 33728831.40 33728831.45 33728831.51 0.1594 0.1395

Jupiter 87634-09-08 14:53 G 33728971.96 33728972.12 33728972.29 0.0514 0.0197

Saturn 87635-05-31 02:39 G 33729236.61 33729236.61 33729236.62 0.0299 0.0299

Saturn 87635-08-28 04:05 G 33729325.50 33729325.67 33729325.85 0.0299 0.0083

Saturn 87635-11-25 04:48 G 33729414.55 33729414.70 33729414.87 0.0300 0.0131

Mars 87636-03-26 00:15 G 33729536.39 33729536.51 33729536.63 0.1601 0.0010

Mars 87638-03-01 02:53 G 33730241.57 33730241.62 33730241.66 0.1610 0.1479

Mars 87639-01-08 06:15 G 33730554.60 33730554.76 33730554.92 0.1932 0.0535

Jupiter 87640-04-30 03:51 G 33731032.53 33731032.66 33731032.79 0.0512 0.0131

Earth 87641-03-15 15:22 G 33731352.06 33731352.14 33731352.22 0.2706 0.2291

Moon 87641-03-15 16:05 G 33731352.09 33731352.17 33731352.25 0.2700 0.2272 *

Earth 87643-09-17 02:10 G 33732267.47 33732267.59 33732267.70 0.2626 0.0538

Moon 87643-09-17 02:39 G 33732267.49 33732267.61 33732267.72 0.2621 0.0542 *

Uranus 87645-01-16 06:00 G 33732754.68 33732754.75 33732754.84 0.0134 0.0122

Uranus 87645-04-14 12:58 G 33732842.91 33732843.04 33732843.17 0.0134 0.0096

Uranus 87645-07-11 19:27 G 33732931.16 33732931.31 33732931.48 0.0134 0.0070

Mars 87645-08-16 11:46 G 33732966.88 33732966.99 33732967.11 0.1599 0.0346

Uranus 87645-10-08 02:24 G 33733019.43 33733019.60 33733019.78 0.0134 0.0044

Uranus 87646-01-04 08:53 G 33733107.69 33733107.87 33733108.06 0.0134 0.0020

Uranus 87646-04-02 15:36 G 33733195.97 33733196.15 33733196.34 0.0134 0.0007

Jupiter 87646-06-27 12:29 G 33733281.93 33733282.02 33733282.12 0.0514 0.0434

Uranus 87646-06-29 22:05 G 33733284.25 33733284.42 33733284.61 0.0134 0.0032

Uranus 87646-09-26 04:34 G 33733372.53 33733372.69 33733372.87 0.0134 0.0057

Uranus 87646-12-23 11:03 G 33733460.83 33733460.96 33733461.12 0.0134 0.0082

Uranus 87647-03-21 17:46 G 33733549.13 33733549.24 33733549.35 0.0134 0.0107

Uranus 87647-06-18 00:00 G 33733637.47 33733637.50 33733637.54 0.0134 0.0131

Mars 87647-07-22 14:10 G 33733672.00 33733672.09 33733672.17 0.1608 0.1114

Mars 87648-05-29 23:03 G 33733984.30 33733984.46 33733984.61 0.1935 0.0697

Saturn 87649-06-25 07:41 G 33734375.73 33734375.82 33734375.92 0.0263 0.0181

Saturn 87649-09-21 17:46 G 33734464.11 33734464.24 33734464.37 0.0262 0.0078

Saturn 87649-12-19 03:51 G 33734552.52 33734552.66 33734552.79 0.0262 0.0027

Saturn 87650-03-17 13:56 G 33734640.96 33734641.08 33734641.20 0.0262 0.0131

Saturn 87650-06-14 00:00 G 33734729.45 33734729.50 33734729.56 0.0261 0.0236

Jupiter 87652-02-17 08:10 G 33735342.74 33735342.84 33735342.95 0.0513 0.0300

Jupiter 87652-05-16 13:41 G 33735431.98 33735432.07 33735432.15 0.0510 0.0382

Moon 87654-03-18 19:41 G 33736103.17 33736103.32 33736103.47 0.2699 0.0381

Earth 87654-03-18 19:56 G 33736103.18 33736103.33 33736103.47 0.2706 0.0302 *

Mars 87655-01-06 23:32 G 33736397.37 33736397.48 33736397.58 0.1597 0.0691

Neptune 87656-09-15 08:39 G 33737014.83 33737014.86 33737014.91 0.0088 0.0084

Moon 87656-09-18 20:24 G 33737018.27 33737018.35 33737018.43 0.2619 0.1914

Earth 87656-09-18 20:39 G 33737018.28 33737018.36 33737018.44 0.2626 0.1906 *

Mars 87656-12-12 01:27 G 33737102.45 33737102.56 33737102.66 0.1605 0.0750

Neptune 87656-12-12 09:51 G 33737102.86 33737102.91 33737102.99 0.0088 0.0077

Neptune 87657-03-10 11:17 G 33737190.90 33737190.97 33737191.06 0.0088 0.0070

Neptune 87657-06-06 12:44 G 33737278.94 33737279.03 33737279.13 0.0088 0.0062

Neptune 87657-09-02 14:24 G 33737366.99 33737367.10 33737367.20 0.0088 0.0055

Neptune 87657-11-29 15:36 G 33737455.04 33737455.15 33737455.27 0.0088 0.0048

Neptune 87658-02-25 17:03 G 33737543.09 33737543.21 33737543.33 0.0088 0.0041

Neptune 87658-05-24 18:15 G 33737631.14 33737631.26 33737631.40 0.0088 0.0034

Jupiter 87658-07-14 18:44 G 33737682.14 33737682.28 33737682.43 0.0515 0.0304

Neptune 87658-08-20 19:41 G 33737719.20 33737719.32 33737719.46 0.0088 0.0027

Neptune 87658-11-16 21:08 G 33737807.25 33737807.38 33737807.52 0.0088 0.0020

Neptune 87659-02-12 22:34 G 33737895.31 33737895.44 33737895.58 0.0088 0.0012

Neptune 87659-05-12 00:00 G 33737983.37 33737983.50 33737983.64 0.0088 0.0005

Neptune 87659-08-08 01:27 G 33738071.43 33738071.56 33738071.70 0.0088 0.0003

Neptune 87659-11-04 02:53 G 33738159.49 33738159.62 33738159.76 0.0088 0.0010

Neptune 87660-01-31 04:20 G 33738247.55 33738247.68 33738247.82 0.0088 0.0017

Neptune 87660-04-28 05:46 G 33738335.61 33738335.74 33738335.87 0.0088 0.0025

Neptune 87660-07-25 07:12 G 33738423.67 33738423.80 33738423.93 0.0088 0.0032

Neptune 87660-10-21 08:24 G 33738511.74 33738511.85 33738511.98 0.0088 0.0040

Neptune 87661-01-17 09:51 G 33738599.80 33738599.91 33738600.04 0.0088 0.0047

Neptune 87661-04-15 11:32 G 33738687.87 33738687.98 33738688.09 0.0088 0.0054

Neptune 87661-07-12 12:44 G 33738775.94 33738776.03 33738776.14 0.0088 0.0062

Neptune 87661-10-08 14:10 G 33738864.02 33738864.09 33738864.18 0.0088 0.0069

Neptune 87662-01-04 15:36 G 33738952.09 33738952.15 33738952.23 0.0088 0.0076

Neptune 87662-04-02 17:03 G 33739040.18 33739040.21 33739040.26 0.0088 0.0084

Earth 87663-09-12 18:15 G 33739568.18 33739568.26 33739568.34 0.2627 0.1884

Moon 87663-09-12 18:58 G 33739568.21 33739568.29 33739568.37 0.2630 0.1760 *

Jupiter 87663-12-06 12:44 G 33739652.98 33739653.03 33739653.09 0.0514 0.0463

Jupiter 87664-03-04 18:15 G 33739742.14 33739742.26 33739742.38 0.0511 0.0219

Mars 87664-05-29 11:03 G 33739827.87 33739827.96 33739828.05 0.1595 0.1028

Saturn 87665-01-14 01:41 G 33740057.42 33740057.57 33740057.73 0.0299 0.0150

Saturn 87665-04-13 02:53 G 33740146.44 33740146.62 33740146.79 0.0300 0.0065

Saturn 87665-07-11 03:08 G 33740235.58 33740235.63 33740235.71 0.0300 0.0277

Mars 87666-05-04 12:44 G 33740532.92 33740533.03 33740533.15 0.1603 0.0390

Moon 87667-03-21 22:34 G 33740854.40 33740854.44 33740854.49 0.2703 0.2555

Mars 87669-02-16 13:27 G 33741552.00 33741552.06 33741552.12 0.1928 0.1789

Jupiter 87670-05-02 16:05 G 33741991.99 33741992.17 33741992.35 0.0515 0.0058

Venus 87671-02-26 02:10 G 33742291.51 33742291.59 33742291.68 0.3624 0.1860

Mars 87673-10-19 22:48 G 33743258.39 33743258.45 33743258.50 0.1594 0.1366

Mars 87675-09-25 00:15 G 33743963.39 33743963.51 33743963.63 0.1600 0.0036

Jupiter 87675-12-22 22:48 G 33744052.32 33744052.45 33744052.58 0.0511 0.0061

Venus 87676-09-10 17:32 G 33744315.12 33744315.23 33744315.33 0.3623 0.0336

Earth 87676-09-14 12:29 G 33744318.91 33744319.02 33744319.14 0.2627 0.0562

Moon 87676-09-14 13:12 G 33744318.94 33744319.05 33744319.17 0.2624 0.0529 *

Mars 87677-08-30 02:53 G 33744668.58 33744668.62 33744668.66 0.1610 0.1516

Mars 87678-07-09 06:44 G 33744981.63 33744981.78 33744981.94 0.1932 0.0607

Saturn 87678-11-12 09:51 G 33745107.84 33745107.91 33745107.99 0.0263 0.0216

Saturn 87679-02-08 19:56 G 33745196.21 33745196.33 33745196.45 0.0262 0.0113

Saturn 87679-05-08 06:00 G 33745284.61 33745284.75 33745284.88 0.0262 0.0012

Saturn 87679-08-04 16:05 G 33745373.04 33745373.17 33745373.29 0.0262 0.0094

Saturn 87679-11-01 02:10 G 33745461.51 33745461.59 33745461.68 0.0261 0.0199

Jupiter 87682-02-18 13:12 G 33746301.88 33746302.05 33746302.22 0.0514 0.0189

Venus 87682-03-27 08:39 G 33746338.79 33746338.86 33746338.93 0.3623 0.2498

Mars 87685-02-14 11:46 G 33747393.87 33747393.99 33747394.10 0.1599 0.0318

Uranus 87687-01-19 19:56 G 33748098.28 33748098.33 33748098.38 0.0144 0.0132

Mars 87687-01-20 13:56 G 33748099.00 33748099.08 33748099.17 0.1607 0.1144

Earth 87687-03-16 21:51 G 33748154.30 33748154.41 33748154.52 0.2706 0.1799

Moon 87687-03-16 22:20 G 33748154.31 33748154.43 33748154.54 0.2699 0.1670 *

Uranus 87687-04-17 23:32 G 33748186.40 33748186.48 33748186.57 0.0144 0.0110

Uranus 87687-07-15 03:22 G 33748274.54 33748274.64 33748274.75 0.0144 0.0088

Jupiter 87687-10-11 03:22 G 33748362.52 33748362.64 33748362.77 0.0512 0.0106

Uranus 87687-10-11 07:12 G 33748362.69 33748362.80 33748362.93 0.0144 0.0065 *

Mars 87687-11-28 23:32 G 33748411.33 33748411.48 33748411.64 0.1936 0.0631

Uranus 87688-01-07 11:03 G 33748450.83 33748450.96 33748451.09 0.0144 0.0043

Uranus 87688-04-04 14:53 G 33748538.99 33748539.12 33748539.26 0.0144 0.0020

Uranus 87688-07-01 18:44 G 33748627.15 33748627.28 33748627.42 0.0144 0.0006

Uranus 87688-09-27 22:34 G 33748715.31 33748715.44 33748715.58 0.0144 0.0027

Uranus 87688-12-25 02:39 G 33748803.48 33748803.61 33748803.74 0.0144 0.0049

Uranus 87689-03-23 06:15 G 33748891.65 33748891.76 33748891.89 0.0144 0.0073

Uranus 87689-06-19 10:20 G 33748979.83 33748979.93 33748980.04 0.0144 0.0096

Uranus 87689-09-15 14:24 G 33749068.03 33749068.10 33749068.18 0.0144 0.0119

Earth 87689-09-17 06:58 G 33749069.68 33749069.79 33749069.90 0.2626 0.0800

Moon 87689-09-17 07:12 G 33749069.69 33749069.80 33749069.91 0.2621 0.0894 *

Uranus 87689-12-12 18:15 G 33749156.25 33749156.26 33749156.28 0.0144 0.0143

Jupiter 87693-12-07 11:03 G 33750611.86 33750611.96 33750612.06 0.0514 0.0422

Saturn 87694-06-02 20:53 G 33750789.27 33750789.37 33750789.49 0.0299 0.0235

Mars 87694-07-07 23:17 G 33750824.37 33750824.47 33750824.58 0.1597 0.0659

Saturn 87694-08-30 22:20 G 33750878.25 33750878.43 33750878.61 0.0299 0.0020

Saturn 87694-11-27 23:03 G 33750967.32 33750967.46 33750967.59 0.0300 0.0193

Mars 87696-06-12 01:12 G 33751529.45 33751529.55 33751529.66 0.1605 0.0781

Mars 87697-04-19 16:20 G 33751841.14 33751841.18 33751841.21 0.1938 0.1877

Venus 87697-04-20 17:46 G 33751842.11 33751842.24 33751842.38 0.3749 0.1706

Jupiter 87699-07-30 07:12 G 33752672.69 33752672.80 33752672.90 0.0513 0.0289

Jupiter 87699-10-27 12:29 G 33752761.94 33752762.02 33752762.11 0.0510 0.0393

Moon 87700-03-20 01:41 G 33752905.43 33752905.57 33752905.72 0.2700 0.0643

Earth 87700-03-20 02:10 G 33752905.45 33752905.59 33752905.73 0.2706 0.0778 *

Moon 87702-09-21 01:12 G 33753820.48 33753820.55 33753820.62 0.2619 0.2082

Earth 87702-09-21 01:27 G 33753820.50 33753820.56 33753820.63 0.2626 0.2186 *

Mars 87703-11-29 11:03 G 33754254.87 33754254.96 33754255.05 0.1595 0.0997

Mars 87705-11-03 12:44 G 33754959.92 33754960.03 33754960.15 0.1603 0.0423

Jupiter 87705-12-25 18:29 G 33755012.14 33755012.27 33755012.41 0.0515 0.0335

Saturn 87708-04-01 12:44 G 33755839.99 33755840.03 33755840.08 0.0263 0.0246

Saturn 87708-06-28 22:48 G 33755928.34 33755928.45 33755928.56 0.0263 0.0143

Mars 87708-08-18 14:24 G 33755979.06 33755979.10 33755979.13 0.1928 0.1871

Saturn 87708-09-25 08:39 G 33756016.73 33756016.86 33756017.00 0.0262 0.0040

Saturn 87708-12-22 18:44 G 33756105.15 33756105.28 33756105.42 0.0262 0.0065

Saturn 87709-03-21 04:48 G 33756193.61 33756193.70 33756193.81 0.0261 0.0170

Earth 87709-09-13 23:17 G 33756370.38 33756370.47 33756370.55 0.2627 0.1626

Moon 87709-09-14 00:00 G 33756370.40 33756370.50 33756370.59 0.2628 0.1545 *

Jupiter 87711-05-19 11:32 G 33756982.93 33756982.98 33756983.04 0.0513 0.0456

Jupiter 87711-08-16 16:48 G 33757072.08 33757072.20 33757072.32 0.0511 0.0224

Pluto 87712-07-02 19:41 G 33757393.31 33757393.32 33757393.37 0.0061 0.0061

Pluto 87712-09-28 20:39 G 33757481.28 33757481.36 33757481.49 0.0061 0.0051

Pluto 87712-12-25 22:05 G 33757569.29 33757569.42 33757569.56 0.0062 0.0040

Pluto 87713-03-23 22:48 G 33757657.32 33757657.45 33757657.62 0.0062 0.0030

Mars 87713-04-20 22:48 G 33757685.39 33757685.45 33757685.51 0.1594 0.1330

Pluto 87713-06-20 00:15 G 33757745.35 33757745.51 33757745.68 0.0062 0.0019

Pluto 87713-09-16 01:12 G 33757833.38 33757833.55 33757833.73 0.0062 0.0009

Pluto 87713-12-13 02:24 G 33757921.42 33757921.60 33757921.77 0.0062 0.0002

Pluto 87714-03-11 03:08 G 33758009.47 33758009.63 33758009.81 0.0062 0.0013

Pluto 87714-06-07 04:20 G 33758097.52 33758097.68 33758097.85 0.0062 0.0023

Pluto 87714-09-03 05:03 G 33758185.58 33758185.71 33758185.87 0.0062 0.0034

Pluto 87714-11-30 06:15 G 33758273.65 33758273.76 33758273.89 0.0062 0.0045

Pluto 87715-02-26 07:12 G 33758361.74 33758361.80 33758361.89 0.0062 0.0055

Mars 87715-03-27 00:15 G 33758390.39 33758390.51 33758390.63 0.1600 0.0072

Mars 87717-03-01 02:53 G 33759095.59 33759095.62 33759095.65 0.1610 0.1548

Jupiter 87717-10-13 15:22 G 33759321.97 33759322.14 33759322.32 0.0515 0.0086

Mars 87718-01-08 07:41 G 33759408.66 33759408.82 33759408.97 0.1932 0.0682

Venus 87722-03-20 08:24 G 33760940.81 33760940.85 33760940.90 0.3624 0.3193

Earth 87722-09-16 17:32 G 33761121.11 33761121.23 33761121.34 0.2627 0.0292

Moon 87722-09-16 18:15 G 33761121.14 33761121.26 33761121.37 0.2624 0.0160 *

Jupiter 87723-06-04 21:22 G 33761382.26 33761382.39 33761382.52 0.0512 0.0062

Saturn 87724-01-18 19:41 G 33761610.14 33761610.32 33761610.49 0.0300 0.0089

Saturn 87724-04-16 20:39 G 33761699.19 33761699.36 33761699.52 0.0300 0.0126

Mars 87724-08-16 11:46 G 33761820.87 33761820.99 33761821.10 0.1599 0.0281

Mars 87726-07-22 14:10 G 33762526.01 33762526.09 33762526.17 0.1607 0.1180

Mars 87727-05-31 00:44 G 33762838.37 33762838.53 33762838.69 0.1935 0.0539

Venus 87727-10-03 23:32 G 33762964.38 33762964.48 33762964.58 0.3623 0.1056

Uranus 87729-02-06 13:41 G 33763455.98 33763456.07 33763456.19 0.0134 0.0112

Uranus 87729-05-05 20:39 G 33763544.22 33763544.36 33763544.51 0.0134 0.0086

Jupiter 87729-08-01 12:29 G 33763631.85 33763632.02 33763632.19 0.0514 0.0162

Uranus 87729-08-02 03:22 G 33763632.48 33763632.64 33763632.81 0.0134 0.0060

Uranus 87729-10-29 10:05 G 33763720.75 33763720.92 33763721.11 0.0134 0.0035

Uranus 87730-01-25 16:48 G 33763809.02 33763809.20 33763809.39 0.0134 0.0009

Uranus 87730-04-23 23:32 G 33763897.29 33763897.48 33763897.66 0.0134 0.0016

Uranus 87730-07-21 06:00 G 33763985.58 33763985.75 33763985.93 0.0134 0.0041

Uranus 87730-10-17 12:29 G 33764073.86 33764074.02 33764074.18 0.0134 0.0066

Uranus 87731-01-13 18:58 G 33764162.16 33764162.29 33764162.43 0.0134 0.0091

Uranus 87731-04-12 01:12 G 33764250.47 33764250.55 33764250.65 0.0134 0.0116

Earth 87733-03-18 04:05 G 33764956.54 33764956.67 33764956.80 0.2706 0.1304

Moon 87733-03-18 04:34 G 33764956.56 33764956.69 33764956.82 0.2699 0.1294 *

Venus 87733-04-18 14:39 G 33764988.02 33764988.11 33764988.21 0.3623 0.1122

Mars 87734-01-06 23:17 G 33765251.36 33765251.47 33765251.58 0.1597 0.0628

Jupiter 87735-03-24 02:10 G 33765692.46 33765692.59 33765692.72 0.0512 0.0097

Moon 87735-09-19 12:00 G 33765871.89 33765872.00 33765872.11 0.2620 0.1026

Earth 87735-09-19 12:00 G 33765871.89 33765872.00 33765872.10 0.2626 0.1079 *

Mars 87735-12-13 01:12 G 33765956.45 33765956.55 33765956.66 0.1605 0.0815

Mars 87736-10-19 16:34 G 33766268.14 33766268.19 33766268.25 0.1938 0.1820

Saturn 87737-11-16 00:44 G 33766660.44 33766660.53 33766660.63 0.0262 0.0180

Saturn 87738-02-12 10:48 G 33766748.82 33766748.95 33766749.08 0.0262 0.0076

Saturn 87738-05-11 20:53 G 33766837.23 33766837.37 33766837.50 0.0262 0.0027

Saturn 87738-08-08 06:58 G 33766925.67 33766925.79 33766925.91 0.0261 0.0131

Venus 87738-11-02 06:00 G 33767011.71 33767011.75 33767011.79 0.3623 0.3311

Saturn 87738-11-04 17:03 G 33767014.16 33767014.21 33767014.27 0.0261 0.0236

Neptune 87739-12-11 05:17 G 33767415.68 33767415.72 33767415.80 0.0090 0.0085

Neptune 87740-03-08 08:53 G 33767503.78 33767503.87 33767503.98 0.0090 0.0074

Neptune 87740-06-04 12:00 G 33767591.89 33767592.00 33767592.15 0.0090 0.0064

Neptune 87740-08-31 15:36 G 33767680.01 33767680.15 33767680.31 0.0090 0.0053

Neptune 87740-11-27 19:12 G 33767768.14 33767768.30 33767768.46 0.0090 0.0042

Neptune 87741-02-23 22:20 G 33767856.27 33767856.43 33767856.61 0.0090 0.0032

Jupiter 87741-05-20 09:36 G 33767941.79 33767941.90 33767942.01 0.0514 0.0409

Neptune 87741-05-23 01:41 G 33767944.40 33767944.57 33767944.76 0.0090 0.0021

Neptune 87741-08-19 05:03 G 33768032.53 33768032.71 33768032.90 0.0090 0.0010

Neptune 87741-11-15 08:24 G 33768120.67 33768120.85 33768121.04 0.0090 0.0001

Neptune 87742-02-11 11:46 G 33768208.81 33768208.99 33768209.17 0.0090 0.0011

Neptune 87742-05-10 14:53 G 33768296.95 33768297.12 33768297.31 0.0090 0.0021

Neptune 87742-08-06 18:15 G 33768385.09 33768385.26 33768385.43 0.0090 0.0032

Moon 87742-09-12 10:20 G 33768421.91 33768421.93 33768421.95 0.2633 0.2587

Neptune 87742-11-02 21:36 G 33768473.24 33768473.40 33768473.56 0.0090 0.0042

Neptune 87743-01-30 00:29 G 33768561.39 33768561.52 33768561.68 0.0090 0.0053

Neptune 87743-04-28 03:51 G 33768649.54 33768649.66 33768649.80 0.0090 0.0063

Mars 87743-05-30 11:03 G 33768681.87 33768681.96 33768682.05 0.1595 0.0965

Neptune 87743-07-25 06:58 G 33768737.70 33768737.79 33768737.91 0.0090 0.0073

Neptune 87743-10-21 09:51 G 33768825.87 33768825.91 33768826.00 0.0090 0.0084

Mars 87745-05-04 12:44 G 33769386.91 33769387.03 33769387.14 0.1602 0.0452

Moon 87746-03-21 07:41 G 33769707.69 33769707.82 33769707.95 0.2701 0.1248

Earth 87746-03-21 08:24 G 33769707.72 33769707.85 33769707.98 0.2706 0.1253 *

Jupiter 87747-01-10 06:44 G 33770002.67 33770002.78 33770002.90 0.0513 0.0260

Jupiter 87747-04-09 12:15 G 33770091.94 33770092.01 33770092.08 0.0510 0.0423

Mars 87748-02-17 14:39 G 33770406.11 33770406.11 33770406.12 0.1928 0.1926

Moon 87748-09-21 06:15 G 33770622.72 33770622.76 33770622.79 0.2620 0.2469

Earth 87748-09-21 06:29 G 33770622.73 33770622.77 33770622.81 0.2626 0.2461 *

Mars 87752-10-19 22:48 G 33772112.38 33772112.45 33772112.51 0.1594 0.1300

Saturn 87753-06-06 14:10 G 33772341.95 33772342.09 33772342.24 0.0299 0.0179

Jupiter 87753-06-06 17:17 G 33772342.09 33772342.22 33772342.35 0.0516 0.0352 *

Saturn 87753-09-03 15:22 G 33772430.96 33772431.14 33772431.32 0.0300 0.0036

Venus 87753-11-26 19:56 G 33772515.18 33772515.33 33772515.48 0.3749 0.0989

Saturn 87753-12-01 15:51 G 33772520.07 33772520.16 33772520.27 0.0300 0.0248

Mars 87754-09-25 00:15 G 33772817.39 33772817.51 33772817.62 0.1601 0.0108

Earth 87755-09-15 04:05 G 33773172.57 33773172.67 33773172.77 0.2627 0.1357

Moon 87755-09-15 04:48 G 33773172.60 33773172.70 33773172.80 0.2627 0.1270 *

Mars 87756-08-30 02:53 G 33773522.60 33773522.62 33773522.64 0.1610 0.1578

Mars 87757-07-09 08:39 G 33773835.71 33773835.86 33773836.01 0.1932 0.0772

Jupiter 87758-10-29 10:34 G 33774312.88 33774312.94 33774313.00 0.0513 0.0442

Jupiter 87759-01-26 15:51 G 33774402.05 33774402.16 33774402.28 0.0511 0.0238

Mars 87764-02-15 11:46 G 33776247.87 33776247.99 33776248.10 0.1599 0.0252

Jupiter 87765-03-25 15:22 G 33776651.97 33776652.14 33776652.31 0.0515 0.0120

Mars 87766-01-20 13:56 G 33776953.01 33776953.08 33776953.16 0.1608 0.1212

Mars 87766-11-29 01:27 G 33777265.40 33777265.56 33777265.72 0.1935 0.0468

Saturn 87767-04-05 03:22 G 33777392.57 33777392.64 33777392.72 0.0263 0.0212

Saturn 87767-07-02 13:27 G 33777480.94 33777481.06 33777481.18 0.0262 0.0108

Saturn 87767-09-28 23:32 G 33777569.34 33777569.48 33777569.61 0.0262 0.0006

Saturn 87767-12-26 09:36 G 33777657.77 33777657.90 33777658.02 0.0262 0.0100

Saturn 87768-03-23 19:41 G 33777746.24 33777746.32 33777746.41 0.0261 0.0204

Earth 87768-09-16 22:20 G 33777923.32 33777923.43 33777923.55 0.2627 0.0059

Moon 87768-09-16 23:03 G 33777923.34 33777923.46 33777923.57 0.2623 0.0045 *

Jupiter 87770-11-14 20:10 G 33778712.21 33778712.34 33778712.47 0.0511 0.0071

Uranus 87771-02-10 03:22 G 33778799.58 33778799.64 33778799.71 0.0144 0.0125

Uranus 87771-05-09 07:12 G 33778887.71 33778887.80 33778887.89 0.0144 0.0103

Uranus 87771-08-05 11:03 G 33778975.85 33778975.96 33778976.07 0.0144 0.0080

Uranus 87771-11-01 14:53 G 33779064.00 33779064.12 33779064.24 0.0144 0.0058

Uranus 87772-01-28 18:44 G 33779152.15 33779152.28 33779152.41 0.0144 0.0035

Uranus 87772-04-25 22:34 G 33779240.30 33779240.44 33779240.57 0.0144 0.0012

Uranus 87772-07-23 02:24 G 33779328.46 33779328.60 33779328.74 0.0144 0.0011

Uranus 87772-10-19 06:15 G 33779416.63 33779416.76 33779416.89 0.0144 0.0034

Uranus 87773-01-15 10:05 G 33779504.80 33779504.92 33779505.05 0.0144 0.0057

Uranus 87773-04-13 14:10 G 33779592.97 33779593.09 33779593.20 0.0144 0.0080

Mars 87773-07-07 23:17 G 33779678.36 33779678.47 33779678.58 0.1597 0.0593

Uranus 87773-07-10 17:46 G 33779681.16 33779681.24 33779681.35 0.0144 0.0104

Uranus 87773-10-06 21:51 G 33779769.35 33779769.41 33779769.48 0.0144 0.0127

Mars 87775-06-13 01:12 G 33780383.45 33780383.55 33780383.65 0.1605 0.0848

Mars 87776-04-19 17:46 G 33780695.17 33780695.24 33780695.31 0.1939 0.1725

Jupiter 87777-01-11 12:15 G 33780961.84 33780962.01 33780962.18 0.0514 0.0129

Venus 87778-10-25 05:46 G 33781613.66 33781613.74 33781613.82 0.3624 0.2401

Earth 87779-03-19 10:20 G 33781758.79 33781758.93 33781759.07 0.2706 0.0827

Moon 87779-03-19 10:34 G 33781758.80 33781758.94 33781759.09 0.2699 0.0765 *

Moon 87781-09-19 16:48 G 33782674.10 33782674.20 33782674.30 0.2619 0.1399

Earth 87781-09-19 16:48 G 33782674.10 33782674.20 33782674.30 0.2626 0.1346 *

Jupiter 87782-09-03 00:44 G 33783022.41 33783022.53 33783022.66 0.0512 0.0094

Saturn 87782-10-24 11:03 G 33783073.86 33783073.96 33783074.06 0.0299 0.0253

Mars 87782-11-28 11:03 G 33783108.86 33783108.96 33783109.05 0.1595 0.0933

Saturn 87783-01-21 12:15 G 33783162.83 33783163.01 33783163.19 0.0300 0.0037

Saturn 87783-04-20 13:12 G 33783251.90 33783252.05 33783252.19 0.0300 0.0177

Venus 87784-05-09 20:53 G 33783637.27 33783637.37 33783637.47 0.3623 0.0258

Mars 87784-11-02 12:44 G 33783813.92 33783814.03 33783814.14 0.1603 0.0487

Earth 87788-09-12 14:53 G 33785224.07 33785224.12 33785224.16 0.2628 0.2412

Moon 87788-09-12 15:22 G 33785224.09 33785224.14 33785224.18 0.2632 0.2394 *

Jupiter 87788-10-30 09:22 G 33785271.77 33785271.89 33785272.01 0.0513 0.0376

Venus 87789-11-23 12:00 G 33785660.92 33785661.00 33785661.09 0.3623 0.1926

Moon 87792-03-21 13:41 G 33786509.95 33786510.07 33786510.19 0.2701 0.1552

Earth 87792-03-21 14:39 G 33786509.99 33786510.11 33786510.22 0.2706 0.1726 *

Mars 87792-04-19 22:34 G 33786539.37 33786539.44 33786539.51 0.1594 0.1271

Mars 87794-03-26 00:15 G 33787244.39 33787244.51 33787244.62 0.1600 0.0142

Jupiter 87794-06-22 05:46 G 33787332.62 33787332.74 33787332.85 0.0513 0.0251

Jupiter 87794-09-19 11:03 G 33787421.90 33787421.96 33787422.03 0.0510 0.0433

Moon 87794-09-22 11:03 G 33787424.95 33787424.96 33787424.96 0.2621 0.2607

Saturn 87796-08-22 05:32 G 33788124.69 33788124.73 33788124.78 0.0263 0.0248

Saturn 87796-11-18 15:22 G 33788213.04 33788213.14 33788213.26 0.0262 0.0145

Mars 87797-01-07 09:08 G 33788262.73 33788262.88 33788263.03 0.1932 0.0827

Saturn 87797-02-15 01:27 G 33788301.43 33788301.56 33788301.70 0.0262 0.0042

Saturn 87797-05-14 11:32 G 33788389.85 33788389.98 33788390.11 0.0261 0.0062

Saturn 87797-08-10 21:36 G 33788478.30 33788478.40 33788478.51 0.0261 0.0166

Jupiter 87800-11-17 16:05 G 33789672.05 33789672.17 33789672.29 0.0516 0.0368

Earth 87801-09-16 08:53 G 33789974.77 33789974.87 33789974.98 0.2627 0.1098

Moon 87801-09-16 09:51 G 33789974.80 33789974.91 33789975.01 0.2627 0.0963 *

Mars 87803-08-17 11:32 G 33790674.87 33790674.98 33790675.10 0.1598 0.0225

Pluto 87804-11-04 07:56 G 33791119.77 33791119.83 33791119.91 0.0082 0.0071

Pluto 87805-01-31 09:36 G 33791207.79 33791207.90 33791208.01 0.0082 0.0051

Pluto 87805-04-29 10:48 G 33791295.82 33791295.95 33791296.09 0.0082 0.0031

Mars 87805-07-22 13:56 G 33791380.01 33791380.08 33791380.16 0.1607 0.1242

Pluto 87805-07-26 12:15 G 33791383.87 33791384.01 33791384.16 0.0082 0.0010

Pluto 87805-10-22 13:41 G 33791471.93 33791472.07 33791472.22 0.0082 0.0010

Pluto 87806-01-18 14:53 G 33791560.00 33791560.12 33791560.26 0.0082 0.0031

Jupiter 87806-04-11 10:20 G 33791642.86 33791642.93 33791643.01 0.0513 0.0411

Pluto 87806-04-16 16:20 G 33791648.08 33791648.18 33791648.30 0.0082 0.0051

Mars 87806-05-31 02:10 G 33791692.43 33791692.59 33791692.75 0.1936 0.0389

Jupiter 87806-07-09 15:36 G 33791732.04 33791732.15 33791732.27 0.0511 0.0270

Pluto 87806-07-13 17:32 G 33791736.18 33791736.23 33791736.32 0.0082 0.0071

Venus 87810-07-04 22:20 G 33793188.41 33793188.43 33793188.45 0.3750 0.3691

Saturn 87812-06-10 06:44 G 33793894.62 33793894.78 33793894.94 0.0299 0.0129

Jupiter 87812-09-05 14:24 G 33793981.93 33793982.10 33793982.27 0.0515 0.0140

Saturn 87812-09-07 07:41 G 33793983.65 33793983.82 33793984.00 0.0300 0.0086

Uranus 87812-12-01 14:53 G 33794069.08 33794069.12 33794069.20 0.0134 0.0128

Saturn 87812-12-05 08:10 G 33794072.83 33794072.84 33794072.87 0.0300 0.0298

Mars 87813-01-06 23:17 G 33794105.36 33794105.47 33794105.58 0.1597 0.0561

Uranus 87813-02-27 21:51 G 33794157.30 33794157.41 33794157.54 0.0134 0.0101

Uranus 87813-05-27 04:48 G 33794245.55 33794245.70 33794245.86 0.0134 0.0075

Uranus 87813-08-23 11:17 G 33794333.81 33794333.97 33794334.15 0.0134 0.0050

Uranus 87813-11-19 18:15 G 33794422.08 33794422.26 33794422.44 0.0134 0.0024

Uranus 87814-02-16 00:58 G 33794510.35 33794510.54 33794510.72 0.0134 0.0003

Uranus 87814-05-15 07:27 G 33794598.63 33794598.81 33794598.99 0.0134 0.0026

Uranus 87814-08-11 13:56 G 33794686.91 33794687.08 33794687.25 0.0134 0.0051

Earth 87814-09-19 03:22 G 33794725.52 33794725.64 33794725.75 0.2627 0.0260

Moon 87814-09-19 03:51 G 33794725.54 33794725.66 33794725.77 0.2622 0.0331 *

Uranus 87814-11-07 20:24 G 33794775.20 33794775.35 33794775.51 0.0134 0.0076

Mars 87814-12-13 01:12 G 33794810.45 33794810.55 33794810.65 0.1605 0.0877

Uranus 87815-02-04 02:53 G 33794863.51 33794863.62 33794863.74 0.0134 0.0101

Uranus 87815-05-03 09:08 G 33794951.83 33794951.88 33794951.95 0.0134 0.0126

Mars 87815-10-20 18:44 G 33795122.19 33795122.28 33795122.37 0.1938 0.1639

Jupiter 87818-04-27 19:27 G 33796042.18 33796042.31 33796042.44 0.0511 0.0087

Neptune 87821-06-14 08:10 G 33797185.79 33797185.84 33797185.89 0.0088 0.0081

Neptune 87821-09-10 09:22 G 33797273.82 33797273.89 33797273.97 0.0088 0.0074

Neptune 87821-12-07 10:48 G 33797361.87 33797361.95 33797362.04 0.0088 0.0067

Neptune 87822-03-05 12:00 G 33797449.91 33797450.00 33797450.11 0.0088 0.0060

Mars 87822-05-30 11:03 G 33797535.86 33797535.96 33797536.05 0.1595 0.0904

Neptune 87822-06-01 13:27 G 33797537.96 33797538.06 33797538.17 0.0088 0.0053

Neptune 87822-08-28 14:53 G 33797626.01 33797626.12 33797626.24 0.0088 0.0045

Neptune 87822-11-24 16:05 G 33797714.06 33797714.17 33797714.31 0.0088 0.0039

Neptune 87823-02-20 17:46 G 33797802.11 33797802.24 33797802.37 0.0088 0.0031

Neptune 87823-05-19 19:12 G 33797890.17 33797890.30 33797890.43 0.0088 0.0024

Neptune 87823-08-15 20:39 G 33797978.22 33797978.36 33797978.49 0.0088 0.0017

Neptune 87823-11-11 21:51 G 33798066.28 33798066.41 33798066.55 0.0088 0.0010

Neptune 87824-02-07 23:17 G 33798154.34 33798154.47 33798154.61 0.0088 0.0003

Mars 87824-05-04 12:44 G 33798240.92 33798241.03 33798241.14 0.1603 0.0519

Neptune 87824-05-06 00:44 G 33798242.39 33798242.53 33798242.67 0.0088 0.0005

Jupiter 87824-06-24 12:15 G 33798291.84 33798292.01 33798292.19 0.0514 0.0092

Neptune 87824-08-02 02:10 G 33798330.45 33798330.59 33798330.73 0.0088 0.0012

Neptune 87824-10-29 03:36 G 33798418.52 33798418.65 33798418.78 0.0088 0.0020

Neptune 87825-01-25 05:03 G 33798506.58 33798506.71 33798506.84 0.0088 0.0027

Moon 87825-03-20 16:48 G 33798561.05 33798561.20 33798561.34 0.2699 0.0327

Earth 87825-03-20 16:34 G 33798561.05 33798561.19 33798561.34 0.2706 0.0342 *

Neptune 87825-04-23 06:15 G 33798594.64 33798594.76 33798594.90 0.0088 0.0035

Neptune 87825-07-20 07:41 G 33798682.71 33798682.82 33798682.95 0.0088 0.0042

Neptune 87825-10-16 09:22 G 33798770.77 33798770.89 33798771.00 0.0088 0.0049

Neptune 87826-01-12 10:34 G 33798858.84 33798858.94 33798859.05 0.0088 0.0056

Saturn 87826-04-08 18:00 G 33798945.15 33798945.25 33798945.35 0.0263 0.0178

Neptune 87826-04-10 12:00 G 33798946.91 33798947.00 33798947.10 0.0088 0.0064

Saturn 87826-07-06 03:51 G 33799033.54 33799033.66 33799033.79 0.0262 0.0076

Neptune 87826-07-07 13:12 G 33799034.99 33799035.05 33799035.15 0.0088 0.0072

Saturn 87826-10-02 13:56 G 33799121.95 33799122.08 33799122.22 0.0262 0.0030

Neptune 87826-10-03 14:53 G 33799123.07 33799123.12 33799123.19 0.0088 0.0079

Saturn 87826-12-30 00:00 G 33799210.39 33799210.50 33799210.62 0.0261 0.0134

Neptune 87826-12-30 16:20 G 33799211.17 33799211.18 33799211.21 0.0088 0.0086

Saturn 87827-03-28 10:20 G 33799298.88 33799298.93 33799298.98 0.0261 0.0238

Moon 87827-09-21 21:51 G 33799476.31 33799476.41 33799476.50 0.2619 0.1575

Earth 87827-09-21 21:51 G 33799476.32 33799476.41 33799476.50 0.2626 0.1626 *

Jupiter 87830-02-13 23:46 G 33800352.36 33800352.49 33800352.62 0.0512 0.0081

Mars 87831-10-20 22:34 G 33800966.37 33800966.44 33800966.52 0.1594 0.1237

Mars 87833-09-25 00:00 G 33801671.39 33801671.50 33801671.62 0.1600 0.0176

Earth 87834-09-14 19:41 G 33802026.26 33802026.32 33802026.38 0.2628 0.2151

Moon 87834-09-14 20:24 G 33802026.27 33802026.35 33802026.42 0.2630 0.2009 *

Venus 87835-06-02 03:08 G 33802286.54 33802286.63 33802286.72 0.3624 0.1621

Jupiter 87836-04-12 09:08 G 33802601.75 33802601.88 33802602.01 0.0513 0.0342

Mars 87836-07-09 10:05 G 33802689.78 33802689.92 33802690.07 0.1932 0.0913

Moon 87838-03-23 19:41 G 33803312.23 33803312.32 33803312.41 0.2701 0.2095

Earth 87838-03-23 20:39 G 33803312.28 33803312.36 33803312.45 0.2707 0.2194 *

Venus 87840-12-15 18:15 G 33804310.16 33804310.26 33804310.36 0.3623 0.0545

Mars 87841-03-12 10:20 G 33804396.92 33804396.93 33804396.95 0.1593 0.1570

Saturn 87841-10-28 03:22 G 33804626.52 33804626.64 33804626.78 0.0299 0.0204

Jupiter 87841-12-03 04:20 G 33804662.57 33804662.68 33804662.80 0.0513 0.0244

Saturn 87842-01-25 04:48 G 33804715.52 33804715.70 33804715.88 0.0300 0.0013

Jupiter 87842-03-02 09:51 G 33804751.84 33804751.91 33804751.97 0.0510 0.0439

Saturn 87842-04-24 05:17 G 33804804.62 33804804.72 33804804.85 0.0301 0.0227

Mars 87843-02-15 11:46 G 33805101.87 33805101.99 33805102.10 0.1598 0.0192

Mars 87845-01-20 13:56 G 33805807.01 33805807.08 33805807.15 0.1607 0.1277

Mars 87845-11-29 03:08 G 33806119.46 33806119.63 33806119.79 0.1936 0.0312

Venus 87846-07-01 09:22 G 33806333.82 33806333.89 33806333.96 0.3623 0.2719

Earth 87847-09-17 13:56 G 33806776.97 33806777.08 33806777.19 0.2627 0.0824

Moon 87847-09-17 14:39 G 33806777.00 33806777.11 33806777.22 0.2626 0.0759 *

Jupiter 87848-04-29 15:51 G 33807002.05 33807002.16 33807002.27 0.0515 0.0401

Mars 87852-07-07 23:17 G 33808532.36 33808532.47 33808532.58 0.1597 0.0532

Jupiter 87853-09-21 09:08 G 33808972.80 33808972.88 33808972.96 0.0514 0.0402

Jupiter 87853-12-19 14:24 G 33809062.00 33809062.10 33809062.21 0.0511 0.0280

Mars 87854-06-13 01:12 G 33809237.46 33809237.55 33809237.65 0.1605 0.0911

Uranus 87854-12-05 06:58 G 33809412.77 33809412.79 33809412.82 0.0144 0.0141

Uranus 87855-03-03 10:48 G 33809500.88 33809500.95 33809501.03 0.0144 0.0119

Mars 87855-04-20 19:12 G 33809549.20 33809549.30 33809549.39 0.1939 0.1576

Uranus 87855-05-30 14:39 G 33809589.01 33809589.11 33809589.21 0.0144 0.0096

Uranus 87855-08-26 18:15 G 33809677.15 33809677.26 33809677.38 0.0144 0.0074

Saturn 87855-08-26 19:56 G 33809677.27 33809677.33 33809677.42 0.0263 0.0215 *

Uranus 87855-11-22 22:05 G 33809765.30 33809765.42 33809765.55 0.0144 0.0052

Saturn 87855-11-23 06:00 G 33809765.63 33809765.75 33809765.88 0.0262 0.0112

Uranus 87856-02-19 01:56 G 33809853.45 33809853.58 33809853.72 0.0144 0.0029

Saturn 87856-02-19 16:05 G 33809854.04 33809854.17 33809854.31 0.0262 0.0008

Uranus 87856-05-17 06:00 G 33809941.61 33809941.75 33809941.88 0.0144 0.0007

Saturn 87856-05-18 02:10 G 33809942.47 33809942.59 33809942.72 0.0261 0.0096

Uranus 87856-08-13 09:36 G 33810029.77 33810029.90 33810030.04 0.0144 0.0018

Saturn 87856-08-14 12:15 G 33810030.93 33810031.01 33810031.10 0.0261 0.0201

Uranus 87856-11-09 13:41 G 33810117.94 33810118.07 33810118.20 0.0144 0.0040

Uranus 87857-02-05 17:32 G 33810206.11 33810206.23 33810206.35 0.0144 0.0064

Uranus 87857-05-04 21:22 G 33810294.29 33810294.39 33810294.50 0.0144 0.0087

Uranus 87857-08-01 01:12 G 33810382.47 33810382.55 33810382.65 0.0144 0.0111

Uranus 87857-10-28 05:03 G 33810470.68 33810470.71 33810470.77 0.0144 0.0134

Earth 87858-03-18 18:15 G 33810612.21 33810612.26 33810612.32 0.2705 0.2478

Moon 87858-03-18 19:12 G 33810612.22 33810612.30 33810612.38 0.2699 0.2268 *

Jupiter 87860-02-16 12:58 G 33811311.88 33811312.04 33811312.21 0.0515 0.0158

Earth 87860-09-19 08:10 G 33811527.73 33811527.84 33811527.96 0.2627 0.0528

Moon 87860-09-19 08:39 G 33811527.74 33811527.86 33811527.97 0.2621 0.0588 *

Venus 87861-07-25 14:24 G 33811836.97 33811837.10 33811837.23 0.3749 0.1991

Mars 87861-11-28 10:48 G 33811962.86 33811962.95 33811963.05 0.1595 0.0871

Mars 87863-11-03 12:44 G 33812667.91 33812668.03 33812668.14 0.1602 0.0550

Jupiter 87865-10-07 19:12 G 33813372.17 33813372.30 33813372.42 0.0511 0.0118

Saturn 87871-03-16 21:22 G 33815358.39 33815358.39 33815358.41 0.0299 0.0298

Moon 87871-03-21 22:34 G 33815363.29 33815363.44 33815363.59 0.2700 0.0057

Earth 87871-03-21 22:48 G 33815363.30 33815363.45 33815363.60 0.2706 0.0141 *

Mars 87871-04-20 22:34 G 33815393.37 33815393.44 33815393.52 0.1594 0.1205

Saturn 87871-06-13 23:03 G 33815447.28 33815447.46 33815447.63 0.0299 0.0081

Saturn 87871-09-11 00:00 G 33815536.34 33815536.50 33815536.66 0.0300 0.0133

Jupiter 87871-12-05 11:17 G 33815621.79 33815621.97 33815622.14 0.0514 0.0073

Mars 87873-03-26 00:00 G 33816098.39 33816098.50 33816098.62 0.1600 0.0203

Moon 87873-09-22 02:39 G 33816278.53 33816278.61 33816278.69 0.2620 0.1902

Earth 87873-09-22 02:39 G 33816278.54 33816278.61 33816278.69 0.2626 0.1905 *

Mars 87876-01-08 11:03 G 33817116.82 33817116.96 33817117.10 0.1932 0.0993

Jupiter 87877-07-26 22:48 G 33817682.33 33817682.45 33817682.58 0.0512 0.0066

Mars 87880-09-10 10:20 G 33818823.91 33818823.93 33818823.96 0.1593 0.1537

Earth 87880-09-15 00:29 G 33818828.45 33818828.52 33818828.60 0.2628 0.1889

Moon 87880-09-15 01:12 G 33818828.48 33818828.55 33818828.63 0.2629 0.1864 *

Mars 87882-08-16 11:32 G 33819528.87 33819528.98 33819529.10 0.1598 0.0163

Jupiter 87883-09-23 08:53 G 33819931.73 33819931.87 33819932.02 0.0514 0.0307

Moon 87884-03-24 01:56 G 33820114.53 33820114.58 33820114.63 0.2701 0.2506

Earth 87884-03-24 02:53 G 33820114.60 33820114.62 33820114.64 0.2707 0.2661 *

Mars 87884-07-21 13:56 G 33820234.02 33820234.08 33820234.15 0.1607 0.1310

Saturn 87885-01-12 22:34 G 33820409.40 33820409.44 33820409.49 0.0263 0.0249

Saturn 87885-04-11 08:39 G 33820497.75 33820497.86 33820497.97 0.0263 0.0145

Mars 87885-05-30 03:51 G 33820546.50 33820546.66 33820546.82 0.1936 0.0228

Saturn 87885-07-08 18:29 G 33820586.14 33820586.27 33820586.41 0.0262 0.0042

Saturn 87885-10-05 04:34 G 33820674.56 33820674.69 33820674.83 0.0262 0.0063

Saturn 87886-01-01 14:39 G 33820763.01 33820763.11 33820763.22 0.0261 0.0168

Venus 87886-06-23 09:08 G 33820935.83 33820935.88 33820935.94 0.3624 0.2965

Jupiter 87889-05-15 03:22 G 33821992.52 33821992.64 33821992.75 0.0513 0.0232

Jupiter 87889-08-12 08:39 G 33822081.80 33822081.86 33822081.92 0.0510 0.0450

Mars 87892-01-06 23:17 G 33822959.36 33822959.47 33822959.58 0.1597 0.0498

Venus 87892-01-07 00:15 G 33822959.41 33822959.51 33822959.61 0.3623 0.0835 *

Earth 87893-09-17 18:44 G 33823579.17 33823579.28 33823579.39 0.2627 0.0561

Moon 87893-09-17 19:27 G 33823579.20 33823579.31 33823579.42 0.2625 0.0417 *

Mars 87893-12-12 01:12 G 33823664.46 33823664.55 33823664.65 0.1605 0.0943

Mars 87894-10-19 20:10 G 33823976.24 33823976.34 33823976.45 0.1939 0.1489

Jupiter 87895-10-10 15:36 G 33824332.06 33824332.15 33824332.24 0.0515 0.0435

Uranus 87896-12-21 23:17 G 33824770.38 33824770.47 33824770.56 0.0134 0.0117

Uranus 87897-03-20 05:46 G 33824858.62 33824858.74 33824858.89 0.0134 0.0091

Uranus 87897-06-16 12:44 G 33824946.87 33824947.03 33824947.20 0.0134 0.0065

Venus 87897-07-22 15:36 G 33824983.05 33824983.15 33824983.24 0.3623 0.1347

Uranus 87897-09-12 19:27 G 33825035.14 33825035.31 33825035.49 0.0134 0.0040

Uranus 87897-12-10 02:10 G 33825123.41 33825123.59 33825123.78 0.0134 0.0014

Uranus 87898-03-08 08:53 G 33825211.68 33825211.87 33825212.05 0.0134 0.0011

Uranus 87898-06-04 15:22 G 33825299.96 33825300.14 33825300.32 0.0134 0.0036

Uranus 87898-08-31 21:51 G 33825388.25 33825388.41 33825388.58 0.0134 0.0061

Uranus 87898-11-28 04:20 G 33825476.54 33825476.68 33825476.82 0.0134 0.0086

Uranus 87899-02-24 10:34 G 33825564.85 33825564.94 33825565.06 0.0134 0.0111

Saturn 87900-10-31 20:10 G 33826179.18 33826179.34 33826179.50 0.0300 0.0153

Saturn 87901-01-28 21:08 G 33826268.21 33826268.38 33826268.56 0.0300 0.0063

Jupiter 87901-03-04 07:56 G 33826302.75 33826302.83 33826302.91 0.0513 0.0396

Saturn 87901-04-27 21:51 G 33826357.35 33826357.41 33826357.48 0.0301 0.0275

Mars 87901-05-30 10:48 G 33826389.85 33826389.95 33826390.05 0.1595 0.0839

Jupiter 87901-06-01 13:12 G 33826391.94 33826392.05 33826392.16 0.0511 0.0286

Venus 87903-02-06 06:44 G 33827006.76 33827006.78 33827006.80 0.3623 0.3530

Mars 87903-05-05 12:44 G 33827094.92 33827095.03 33827095.14 0.1602 0.0585

Earth 87904-03-20 00:29 G 33827414.43 33827414.52 33827414.62 0.2705 0.1986

Moon 87904-03-20 01:27 G 33827414.46 33827414.56 33827414.66 0.2699 0.1979 *

Neptune 87904-09-08 03:22 G 33827586.57 33827586.64 33827586.71 0.0090 0.0082

Neptune 87904-12-05 06:15 G 33827674.67 33827674.76 33827674.89 0.0090 0.0072

Neptune 87905-03-03 09:51 G 33827762.78 33827762.91 33827763.06 0.0090 0.0061

Neptune 87905-05-30 13:27 G 33827850.91 33827851.06 33827851.21 0.0090 0.0050

Neptune 87905-08-26 16:34 G 33827939.03 33827939.19 33827939.37 0.0090 0.0040

Neptune 87905-11-22 19:56 G 33828027.16 33828027.33 33828027.51 0.0090 0.0029

Neptune 87906-02-18 23:17 G 33828115.30 33828115.47 33828115.66 0.0090 0.0019

Neptune 87906-05-18 02:39 G 33828203.43 33828203.61 33828203.80 0.0090 0.0008

Neptune 87906-08-14 06:00 G 33828291.57 33828291.75 33828291.94 0.0090 0.0003

Earth 87906-09-21 13:12 G 33828329.94 33828330.05 33828330.16 0.2627 0.0801

Moon 87906-09-21 13:27 G 33828329.95 33828330.06 33828330.17 0.2620 0.0807 *

Neptune 87906-11-10 09:22 G 33828379.71 33828379.89 33828380.07 0.0090 0.0013

Neptune 87907-02-06 12:29 G 33828467.85 33828468.02 33828468.21 0.0090 0.0024

Neptune 87907-05-05 15:36 G 33828556.00 33828556.15 33828556.34 0.0090 0.0035

Jupiter 87907-07-30 12:44 G 33828641.87 33828642.03 33828642.20 0.0515 0.0190

Neptune 87907-08-01 18:58 G 33828644.14 33828644.29 33828644.46 0.0090 0.0045

Neptune 87907-10-28 22:20 G 33828732.29 33828732.43 33828732.58 0.0090 0.0055

Neptune 87908-01-25 01:27 G 33828820.45 33828820.56 33828820.70 0.0090 0.0066

Neptune 87908-04-22 04:34 G 33828908.61 33828908.69 33828908.80 0.0090 0.0076

Neptune 87908-07-19 07:56 G 33828996.79 33828996.83 33828996.89 0.0090 0.0086

Mars 87910-10-20 22:34 G 33829820.36 33829820.44 33829820.52 0.1594 0.1176

Mars 87912-09-25 00:00 G 33830525.39 33830525.50 33830525.62 0.1600 0.0231

Jupiter 87913-03-20 18:00 G 33830702.12 33830702.25 33830702.37 0.0512 0.0126

Saturn 87914-08-30 10:48 G 33831229.86 33831229.95 33831230.05 0.0263 0.0180

Saturn 87914-11-26 20:53 G 33831318.24 33831318.37 33831318.50 0.0262 0.0077

Saturn 87915-02-23 06:58 G 33831406.65 33831406.79 33831406.92 0.0262 0.0028

Saturn 87915-05-22 17:03 G 33831495.09 33831495.21 33831495.32 0.0261 0.0132

Mars 87915-07-10 11:32 G 33831543.85 33831543.98 33831544.12 0.1932 0.1057

Saturn 87915-08-19 03:08 G 33831583.58 33831583.63 33831583.69 0.0261 0.0236

Moon 87917-03-23 04:34 G 33832165.54 33832165.69 33832165.83 0.2699 0.0629

Earth 87917-03-23 05:03 G 33832165.57 33832165.71 33832165.86 0.2706 0.0621 *

Venus 87918-03-02 16:48 G 33832510.05 33832510.20 33832510.35 0.3749 0.0784

Jupiter 87919-05-18 09:51 G 33832951.73 33832951.91 33832952.09 0.0514 0.0058

Moon 87919-09-24 07:27 G 33833080.74 33833080.81 33833080.87 0.2620 0.2139

Earth 87919-09-24 07:41 G 33833080.76 33833080.82 33833080.88 0.2626 0.2183 *

Mars 87920-03-12 10:20 G 33833250.90 33833250.93 33833250.97 0.1593 0.1505

Mars 87922-02-15 11:32 G 33833955.86 33833955.98 33833956.10 0.1598 0.0124

Mars 87924-01-21 13:56 G 33834661.02 33834661.08 33834661.15 0.1607 0.1338

Mars 87924-11-29 04:34 G 33834973.52 33834973.69 33834973.85 0.1936 0.0160

Jupiter 87925-01-06 22:34 G 33835012.31 33835012.44 33835012.57 0.0512 0.0037

Earth 87926-09-17 05:32 G 33835630.64 33835630.73 33835630.82 0.2627 0.1626

Moon 87926-09-17 06:15 G 33835630.66 33835630.76 33835630.85 0.2629 0.1459 *

Saturn 87930-03-20 14:39 G 33836911.01 33836911.11 33836911.22 0.0299 0.0243

Saturn 87930-06-17 16:05 G 33836999.99 33837000.17 33837000.35 0.0299 0.0027

Saturn 87930-09-14 16:48 G 33837089.07 33837089.20 33837089.34 0.0300 0.0187

Jupiter 87931-03-06 07:56 G 33837261.68 33837261.83 33837261.98 0.0514 0.0289

Mars 87931-07-08 23:17 G 33837386.36 33837386.47 33837386.58 0.1597 0.0466

Mars 87933-06-13 01:12 G 33838091.46 33838091.55 33838091.64 0.1605 0.0974

Mars 87934-04-20 21:22 G 33838403.27 33838403.39 33838403.50 0.1939 0.1397

Jupiter 87936-10-26 02:24 G 33839322.49 33839322.60 33839322.72 0.0512 0.0216

Jupiter 87937-01-23 07:41 G 33839411.78 33839411.82 33839411.88 0.0510 0.0466

Uranus 87938-12-26 13:56 G 33840114.04 33840114.08 33840114.12 0.0144 0.0137

Uranus 87939-03-24 17:32 G 33840202.16 33840202.23 33840202.32 0.0144 0.0115

Uranus 87939-06-20 21:22 G 33840290.29 33840290.39 33840290.50 0.0144 0.0093

Uranus 87939-09-17 01:12 G 33840378.44 33840378.55 33840378.67 0.0144 0.0070

Earth 87939-09-19 23:46 G 33840381.37 33840381.49 33840381.60 0.2627 0.0298

Moon 87939-09-20 00:15 G 33840381.40 33840381.51 33840381.63 0.2623 0.0276 *

Uranus 87939-12-14 05:03 G 33840466.58 33840466.71 33840466.84 0.0144 0.0047

Uranus 87940-03-11 08:53 G 33840554.74 33840554.87 33840555.00 0.0144 0.0025

Uranus 87940-06-07 12:44 G 33840642.89 33840643.03 33840643.17 0.0144 0.0002

Uranus 87940-09-03 16:34 G 33840731.06 33840731.19 33840731.33 0.0144 0.0021

Mars 87940-11-28 10:48 G 33840816.85 33840816.95 33840817.05 0.1595 0.0807

Uranus 87940-11-30 20:24 G 33840819.22 33840819.35 33840819.48 0.0144 0.0044

Uranus 87941-02-27 00:15 G 33840907.39 33840907.51 33840907.64 0.0144 0.0068

Uranus 87941-05-26 04:05 G 33840995.57 33840995.67 33840995.78 0.0144 0.0091

Uranus 87941-08-22 08:10 G 33841083.76 33841083.84 33841083.93 0.0144 0.0114

Uranus 87941-11-18 12:15 G 33841171.97 33841172.01 33841172.05 0.0144 0.0138

Mars 87942-11-03 12:44 G 33841521.92 33841522.03 33841522.14 0.1602 0.0616

Venus 87943-01-29 06:29 G 33841608.69 33841608.77 33841608.85 0.3623 0.2170

Jupiter 87943-03-23 15:22 G 33841662.07 33841662.14 33841662.21 0.0516 0.0467

Saturn 87944-01-17 13:12 G 33841961.98 33841962.05 33841962.13 0.0263 0.0215

Saturn 87944-04-14 23:17 G 33842050.35 33842050.47 33842050.59 0.0263 0.0111

Saturn 87944-07-12 09:22 G 33842138.75 33842138.89 33842139.02 0.0262 0.0009

Saturn 87944-10-08 19:27 G 33842227.18 33842227.31 33842227.43 0.0262 0.0098

Saturn 87945-01-05 05:32 G 33842315.65 33842315.73 33842315.82 0.0262 0.0203

Venus 87948-08-13 21:36 G 33843632.30 33843632.40 33843632.51 0.3623 0.0133

Jupiter 87948-08-14 06:44 G 33843632.70 33843632.78 33843632.87 0.0513 0.0384

Jupiter 87948-11-11 12:00 G 33843721.90 33843722.00 33843722.11 0.0511 0.0297

Earth 87950-03-21 06:58 G 33844216.66 33844216.79 33844216.91 0.2705 0.1497

Moon 87950-03-21 07:27 G 33844216.68 33844216.81 33844216.94 0.2699 0.1339 *

Mars 87950-04-20 22:34 G 33844247.36 33844247.44 33844247.52 0.1594 0.1141

Mars 87952-03-26 00:00 G 33844952.38 33844952.50 33844952.62 0.1600 0.0260

Earth 87952-09-21 18:00 G 33845132.15 33845132.25 33845132.36 0.2626 0.1075

Moon 87952-09-21 18:15 G 33845132.16 33845132.26 33845132.37 0.2620 0.1150 *

Venus 87954-02-27 12:58 G 33845655.95 33845656.04 33845656.12 0.3623 0.2155

Mars 87955-01-08 12:29 G 33845970.89 33845971.02 33845971.15 0.1932 0.1134

Jupiter 87955-01-09 12:15 G 33845971.85 33845972.01 33845972.18 0.0515 0.0220

Mars 87959-09-11 10:20 G 33847677.89 33847677.93 33847677.97 0.1593 0.1475

Moon 87959-09-15 16:48 G 33847682.18 33847682.20 33847682.21 0.2632 0.2597

Saturn 87959-11-04 13:27 G 33847731.89 33847732.06 33847732.23 0.0299 0.0096

Saturn 87960-02-01 14:24 G 33847820.94 33847821.10 33847821.27 0.0300 0.0119

Pluto 87960-05-04 03:51 G 33847913.61 33847913.66 33847913.75 0.0061 0.0056

Pluto 87960-07-31 05:17 G 33848001.60 33848001.72 33848001.84 0.0062 0.0045

Jupiter 87960-08-30 16:34 G 33848032.06 33848032.19 33848032.32 0.0512 0.0131

Pluto 87960-10-27 06:00 G 33848089.62 33848089.75 33848089.91 0.0062 0.0035

Pluto 87961-01-23 06:58 G 33848177.65 33848177.79 33848177.97 0.0062 0.0025

Pluto 87961-04-21 08:10 G 33848265.68 33848265.84 33848266.02 0.0062 0.0014

Pluto 87961-07-18 09:22 G 33848353.72 33848353.89 33848354.07 0.0062 0.0003

Mars 87961-08-16 11:32 G 33848382.87 33848382.98 33848383.10 0.1598 0.0098

Pluto 87961-10-14 10:34 G 33848441.76 33848441.94 33848442.11 0.0062 0.0007

Pluto 87962-01-10 11:17 G 33848529.81 33848529.97 33848530.15 0.0062 0.0018

Pluto 87962-04-08 12:29 G 33848617.87 33848618.02 33848618.18 0.0062 0.0028

Pluto 87962-07-05 13:12 G 33848705.93 33848706.05 33848706.20 0.0062 0.0039

Pluto 87962-10-01 14:39 G 33848794.01 33848794.11 33848794.21 0.0062 0.0050

Pluto 87962-12-28 15:22 G 33848882.11 33848882.14 33848882.19 0.0062 0.0060

Moon 87963-03-24 10:48 G 33848967.81 33848967.95 33848968.09 0.2699 0.0922

Earth 87963-03-24 11:17 G 33848967.84 33848967.97 33848968.10 0.2706 0.1096 *

Mars 87963-07-22 13:56 G 33849088.02 33849088.08 33849088.14 0.1607 0.1373

Mars 87964-05-30 05:32 G 33849400.57 33849400.73 33849400.90 0.1936 0.0074

Moon 87965-09-24 12:15 G 33849882.96 33849883.01 33849883.06 0.2621 0.2366

Earth 87965-09-24 12:44 G 33849882.99 33849883.03 33849883.06 0.2626 0.2462 *

Jupiter 87966-10-28 09:22 G 33850281.71 33850281.89 33850282.07 0.0514 0.0028

Mars 87971-01-06 23:03 G 33851813.35 33851813.46 33851813.58 0.1597 0.0440

Jupiter 87972-06-18 21:22 G 33852342.26 33852342.39 33852342.52 0.0512 0.0035

Earth 87972-09-17 10:20 G 33852432.83 33852432.93 33852433.03 0.2627 0.1362

Moon 87972-09-17 11:03 G 33852432.86 33852432.96 33852433.06 0.2629 0.1326 *

Mars 87972-12-12 01:12 G 33852518.46 33852518.55 33852518.64 0.1605 0.1008

Saturn 87973-06-05 15:51 G 33852694.12 33852694.16 33852694.20 0.0263 0.0247

Saturn 87973-09-02 01:41 G 33852782.46 33852782.57 33852782.68 0.0263 0.0144

Mars 87973-10-19 21:36 G 33852830.28 33852830.40 33852830.52 0.1939 0.1342

Saturn 87973-11-29 11:46 G 33852870.86 33852870.99 33852871.12 0.0262 0.0040

Saturn 87974-02-25 21:51 G 33852959.28 33852959.41 33852959.54 0.0262 0.0065

Saturn 87974-05-25 07:56 G 33853047.73 33853047.83 33853047.93 0.0261 0.0169

Venus 87974-10-07 19:12 G 33853183.25 33853183.30 33853183.35 0.3750 0.3518

Jupiter 87978-08-16 06:15 G 33854591.61 33854591.76 33854591.91 0.0514 0.0277

Mars 87980-05-29 10:48 G 33855243.85 33855243.95 33855244.05 0.1595 0.0775

Uranus 87980-10-16 00:15 G 33855383.49 33855383.51 33855383.55 0.0134 0.0132

Uranus 87981-01-12 07:12 G 33855471.69 33855471.80 33855471.92 0.0134 0.0106

Uranus 87981-04-10 13:56 G 33855559.94 33855560.08 33855560.24 0.0134 0.0081

Uranus 87981-07-07 20:39 G 33855648.20 33855648.36 33855648.54 0.0134 0.0055

Uranus 87981-10-04 03:36 G 33855736.47 33855736.65 33855736.83 0.0134 0.0029

Uranus 87981-12-31 10:05 G 33855824.74 33855824.92 33855825.11 0.0134 0.0005

Uranus 87982-03-29 16:48 G 33855913.02 33855913.20 33855913.38 0.0134 0.0021

Mars 87982-05-04 12:29 G 33855948.91 33855949.02 33855949.13 0.1602 0.0645

Uranus 87982-06-25 23:17 G 33856001.30 33856001.47 33856001.65 0.0134 0.0047

Uranus 87982-09-22 05:46 G 33856089.59 33856089.74 33856089.90 0.0134 0.0071

Uranus 87982-12-19 12:15 G 33856177.89 33856178.01 33856178.14 0.0134 0.0096

Uranus 87983-03-17 18:29 G 33856266.21 33856266.27 33856266.36 0.0134 0.0121

Jupiter 87984-04-07 01:56 G 33856652.46 33856652.58 33856652.70 0.0513 0.0192

Jupiter 87984-07-05 07:12 G 33856741.77 33856741.80 33856741.84 0.0510 0.0491

Earth 87985-09-20 04:34 G 33857183.58 33857183.69 33857183.81 0.2627 0.0030

Moon 87985-09-20 05:03 G 33857183.60 33857183.71 33857183.83 0.2622 0.0151 *

Neptune 87985-12-14 05:46 G 33857268.73 33857268.74 33857268.77 0.0088 0.0086

Neptune 87986-03-12 07:12 G 33857356.75 33857356.80 33857356.86 0.0088 0.0079

Neptune 87986-06-08 08:39 G 33857444.79 33857444.86 33857444.94 0.0088 0.0072

Neptune 87986-09-04 09:51 G 33857532.83 33857532.91 33857533.01 0.0088 0.0065

Neptune 87986-12-01 11:17 G 33857620.88 33857620.97 33857621.08 0.0088 0.0058

Neptune 87987-02-27 12:44 G 33857708.93 33857709.03 33857709.15 0.0088 0.0050

Neptune 87987-05-26 13:56 G 33857796.98 33857797.08 33857797.21 0.0088 0.0044

Neptune 87987-08-22 15:36 G 33857885.03 33857885.15 33857885.28 0.0088 0.0036

Neptune 87987-11-18 17:03 G 33857973.08 33857973.21 33857973.34 0.0088 0.0029

Neptune 87988-02-14 18:15 G 33858061.13 33858061.26 33858061.40 0.0088 0.0022

Neptune 87988-05-12 19:41 G 33858149.19 33858149.32 33858149.46 0.0088 0.0015

Neptune 87988-08-08 21:08 G 33858237.25 33858237.38 33858237.52 0.0088 0.0007

Neptune 87988-11-04 22:34 G 33858325.30 33858325.44 33858325.58 0.0088 0.0000

Neptune 87989-02-01 00:00 G 33858413.36 33858413.50 33858413.64 0.0088 0.0007

Saturn 87989-03-23 08:39 G 33858463.72 33858463.86 33858464.01 0.0299 0.0182

Neptune 87989-04-30 01:27 G 33858501.42 33858501.56 33858501.69 0.0088 0.0015

Saturn 87989-06-20 09:51 G 33858552.73 33858552.91 33858553.09 0.0299 0.0034

Neptune 87989-07-27 02:53 G 33858589.48 33858589.62 33858589.75 0.0088 0.0022

Saturn 87989-09-17 10:34 G 33858641.84 33858641.94 33858642.04 0.0300 0.0247

Mars 87989-10-19 22:34 G 33858674.36 33858674.44 33858674.52 0.1594 0.1111

Neptune 87989-10-23 04:05 G 33858677.55 33858677.67 33858677.81 0.0088 0.0029

Neptune 87990-01-19 05:32 G 33858765.61 33858765.73 33858765.86 0.0088 0.0037

Neptune 87990-04-17 06:58 G 33858853.67 33858853.79 33858853.91 0.0088 0.0044

Jupiter 87990-06-04 04:05 G 33858901.66 33858901.67 33858901.67 0.0513 0.0513

Neptune 87990-07-14 08:10 G 33858941.74 33858941.84 33858941.96 0.0088 0.0052

Jupiter 87990-09-02 13:41 G 33858992.01 33858992.07 33858992.14 0.0516 0.0480

Neptune 87990-10-10 09:36 G 33859029.81 33859029.90 33859030.01 0.0088 0.0059

Neptune 87991-01-06 11:17 G 33859117.88 33859117.97 33859118.06 0.0088 0.0066

Neptune 87991-04-04 12:29 G 33859205.96 33859206.02 33859206.11 0.0088 0.0074

Neptune 87991-07-01 13:56 G 33859294.04 33859294.08 33859294.14 0.0088 0.0081

Mars 87991-09-25 00:00 G 33859379.39 33859379.50 33859379.62 0.1600 0.0294

Venus 87994-02-19 12:44 G 33860258.01 33860258.03 33860258.06 0.3623 0.3499

Mars 87994-07-09 13:27 G 33860397.94 33860398.06 33860398.19 0.1932 0.1221

Jupiter 87996-01-25 05:46 G 33860962.66 33860962.74 33860962.83 0.0513 0.0369

Earth 87996-03-21 13:12 G 33861018.91 33861019.05 33861019.19 0.2706 0.1000

Moon 87996-03-21 13:27 G 33861018.92 33861019.06 33861019.19 0.2699 0.1069 *

Jupiter 87996-04-23 11:03 G 33861051.86 33861051.96 33861052.07 0.0510 0.0310

Earth 87998-09-22 23:03 G 33861934.36 33861934.46 33861934.56 0.2626 0.1350

Moon 87998-09-22 23:17 G 33861934.37 33861934.47 33861934.57 0.2620 0.1312 *

Mars 87999-03-12 10:20 G 33862104.88 33862104.93 33862104.98 0.1593 0.1443

Venus 87999-09-05 03:51 G 33862281.57 33862281.66 33862281.76 0.3623 0.1371

89TH MILLENNIUM CE

This is a list of transits of Mercury in the 89th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Mars 88001-02-14 11:32 G 33862809.86 33862809.98 33862810.10 0.1598 0.0059

Jupiter 88002-06-21 11:32 G 33863301.83 33863301.98 33863302.14 0.0515 0.0245

Saturn 88003-01-20 04:20 G 33863514.58 33863514.68 33863514.77 0.0264 0.0178

Mars 88003-01-20 13:56 G 33863515.03 33863515.08 33863515.14 0.1607 0.1406

Saturn 88003-04-18 14:10 G 33863602.96 33863603.09 33863603.22 0.0263 0.0074

Saturn 88003-07-16 00:15 G 33863691.38 33863691.51 33863691.65 0.0263 0.0032

Saturn 88003-10-12 10:34 G 33863779.82 33863779.94 33863780.05 0.0262 0.0136

Mars 88003-11-29 06:15 G 33863827.59 33863827.76 33863827.92 0.1936 0.0028

Saturn 88004-01-08 20:39 G 33863868.31 33863868.36 33863868.41 0.0262 0.0242

Venus 88005-03-20 18:58 G 33864305.19 33864305.29 33864305.39 0.3623 0.0787

Earth 88005-09-15 21:08 G 33864484.33 33864484.38 33864484.42 0.2628 0.2422

Moon 88005-09-15 21:36 G 33864484.35 33864484.40 33864484.45 0.2632 0.2351 *

Jupiter 88008-02-10 15:22 G 33865362.01 33865362.14 33865362.27 0.0511 0.0140

Moon 88009-03-24 16:48 G 33865770.08 33865770.20 33865770.32 0.2700 0.1588

Earth 88009-03-24 17:32 G 33865770.11 33865770.23 33865770.35 0.2706 0.1578 *

Mars 88010-07-07 23:17 G 33866240.35 33866240.47 33866240.58 0.1597 0.0406

Venus 88010-10-04 10:20 G 33866328.87 33866328.93 33866328.98 0.3623 0.2963

Mars 88012-06-12 01:12 G 33866945.46 33866945.55 33866945.64 0.1605 0.1039

Mars 88013-04-19 22:48 G 33867257.32 33867257.45 33867257.58 0.1939 0.1248

Jupiter 88014-04-09 08:24 G 33867611.68 33867611.85 33867612.03 0.0514 0.0015

Saturn 88018-08-10 06:44 G 33869195.69 33869195.78 33869195.89 0.0299 0.0245

Earth 88018-09-18 15:08 G 33869235.03 33869235.13 33869235.24 0.2627 0.1099

Moon 88018-09-18 15:51 G 33869235.06 33869235.16 33869235.27 0.2627 0.0962 *

Saturn 88018-11-07 08:10 G 33869284.66 33869284.84 33869285.02 0.0299 0.0028

Saturn 88019-02-04 08:53 G 33869373.74 33869373.87 33869374.02 0.0300 0.0186

Mars 88019-11-28 10:48 G 33869670.84 33869670.95 33869671.05 0.1595 0.0745

Jupiter 88019-11-29 19:41 G 33869672.19 33869672.32 33869672.45 0.0512 0.0029

Mars 88021-11-02 12:44 G 33870375.92 33870376.03 33870376.13 0.1602 0.0682

Uranus 88023-01-15 21:08 G 33870815.33 33870815.38 33870815.44 0.0144 0.0131

Uranus 88023-04-14 00:58 G 33870903.46 33870903.54 33870903.63 0.0144 0.0109

Uranus 88023-07-11 04:34 G 33870991.59 33870991.69 33870991.81 0.0144 0.0087

Uranus 88023-10-07 08:24 G 33871079.74 33871079.85 33871079.98 0.0144 0.0064

Uranus 88024-01-03 12:15 G 33871167.89 33871168.01 33871168.14 0.0144 0.0042

Uranus 88024-03-31 16:05 G 33871256.04 33871256.17 33871256.31 0.0144 0.0019

Uranus 88024-06-27 19:56 G 33871344.20 33871344.33 33871344.47 0.0144 0.0005

Uranus 88024-09-23 23:46 G 33871432.36 33871432.49 33871432.63 0.0144 0.0027

Uranus 88024-12-21 03:36 G 33871520.53 33871520.65 33871520.78 0.0144 0.0051

Uranus 88025-03-19 07:41 G 33871608.70 33871608.82 33871608.93 0.0144 0.0073

Uranus 88025-06-15 11:32 G 33871696.88 33871696.98 33871697.08 0.0144 0.0097

Uranus 88025-09-11 15:22 G 33871785.07 33871785.14 33871785.22 0.0144 0.0120

Venus 88025-10-28 11:03 G 33871831.84 33871831.96 33871832.09 0.3750 0.2198

Uranus 88025-12-08 19:27 G 33871873.30 33871873.31 33871873.32 0.0144 0.0144

Jupiter 88026-01-26 05:17 G 33871921.57 33871921.72 33871921.88 0.0514 0.0254

Mars 88029-04-19 22:20 G 33873101.35 33873101.43 33873101.52 0.1594 0.1084

Mars 88031-03-26 00:00 G 33873806.38 33873806.50 33873806.61 0.1600 0.0323

Jupiter 88031-09-18 00:29 G 33873982.40 33873982.52 33873982.64 0.0513 0.0190

Earth 88031-09-21 09:36 G 33873985.78 33873985.90 33873986.01 0.2627 0.0264

Moon 88031-09-21 10:05 G 33873985.80 33873985.92 33873986.03 0.2622 0.0259 *

Jupiter 88031-12-16 05:46 G 33874071.71 33874071.74 33874071.77 0.0510 0.0493

Saturn 88032-06-08 06:58 G 33874246.71 33874246.79 33874246.87 0.0263 0.0208

Saturn 88032-09-04 17:03 G 33874335.09 33874335.21 33874335.33 0.0263 0.0104

Saturn 88032-12-02 03:08 G 33874423.49 33874423.63 33874423.76 0.0262 0.0004

Saturn 88033-02-28 13:12 G 33874511.93 33874512.05 33874512.17 0.0262 0.0105

Saturn 88033-05-27 23:17 G 33874600.39 33874600.47 33874600.55 0.0261 0.0210

Mars 88034-01-07 13:56 G 33874824.95 33874825.08 33874825.20 0.1932 0.1275

Jupiter 88037-11-14 01:56 G 33876231.56 33876231.58 33876231.61 0.0513 0.0507

Jupiter 88038-02-12 11:46 G 33876321.94 33876321.99 33876322.05 0.0516 0.0484

Mars 88038-09-10 10:20 G 33876531.88 33876531.93 33876531.98 0.1593 0.1411

Mars 88040-08-15 11:32 G 33877236.86 33877236.98 33877237.10 0.1598 0.0031

Moon 88042-03-22 19:27 G 33877821.16 33877821.31 33877821.46 0.2698 0.0451

Earth 88042-03-22 19:27 G 33877821.17 33877821.31 33877821.46 0.2706 0.0514 *

Mars 88042-07-21 13:56 G 33877942.03 33877942.08 33877942.13 0.1607 0.1435

Mars 88043-05-30 06:58 G 33878254.63 33878254.79 33878254.96 0.1936 0.0091

Jupiter 88043-07-07 05:03 G 33878292.62 33878292.71 33878292.80 0.0513 0.0352

Jupiter 88043-10-04 10:20 G 33878381.83 33878381.93 33878382.03 0.0511 0.0329

Moon 88044-09-23 03:51 G 33878736.57 33878736.66 33878736.75 0.2620 0.1668

Earth 88044-09-23 04:05 G 33878736.58 33878736.67 33878736.76 0.2626 0.1626 *

Saturn 88048-03-26 04:05 G 33880016.50 33880016.67 33880016.84 0.0299 0.0108

Saturn 88048-06-23 05:03 G 33880105.55 33880105.71 33880105.88 0.0299 0.0107

Jupiter 88049-12-01 09:51 G 33880631.75 33880631.91 33880632.06 0.0515 0.0251

Mars 88050-01-05 23:03 G 33880667.35 33880667.46 33880667.58 0.1597 0.0373

Venus 88050-09-26 10:05 G 33880930.85 33880930.92 33880930.99 0.3623 0.2710

Earth 88051-09-17 01:56 G 33881286.52 33881286.58 33881286.64 0.2628 0.2158

Moon 88051-09-17 02:39 G 33881286.54 33881286.61 33881286.67 0.2632 0.2090 *

Mars 88051-12-12 01:12 G 33881372.46 33881372.55 33881372.64 0.1605 0.1071

Pluto 88052-06-08 16:20 G 33881552.17 33881552.18 33881552.20 0.0083 0.0082

Pluto 88052-09-04 17:32 G 33881640.15 33881640.23 33881640.33 0.0082 0.0062

Mars 88052-10-18 23:46 G 33881684.36 33881684.49 33881684.62 0.1939 0.1165

Pluto 88052-12-01 18:58 G 33881728.17 33881728.29 33881728.42 0.0082 0.0041

Pluto 88053-02-27 20:24 G 33881816.21 33881816.35 33881816.49 0.0082 0.0021

Pluto 88053-05-26 21:51 G 33881904.27 33881904.41 33881904.55 0.0082 0.0001

Pluto 88053-08-22 23:03 G 33881992.33 33881992.46 33881992.61 0.0082 0.0020

Pluto 88053-11-19 00:29 G 33882080.40 33882080.52 33882080.65 0.0082 0.0040

Pluto 88054-02-15 01:56 G 33882168.49 33882168.58 33882168.68 0.0082 0.0060

Pluto 88054-05-14 03:22 G 33882256.62 33882256.64 33882256.67 0.0082 0.0080

Moon 88055-03-25 23:03 G 33882572.35 33882572.46 33882572.56 0.2701 0.1846

Earth 88055-03-25 23:46 G 33882572.40 33882572.49 33882572.59 0.2706 0.2057 *

Jupiter 88055-07-23 14:10 G 33882691.97 33882692.09 33882692.22 0.0511 0.0151

Venus 88056-04-11 01:12 G 33882954.45 33882954.55 33882954.65 0.3623 0.0573

Mars 88059-05-29 10:48 G 33884097.84 33884097.95 33884098.05 0.1595 0.0714

Mars 88061-05-03 12:29 G 33884802.92 33884803.02 33884803.13 0.1602 0.0712

Jupiter 88061-09-19 07:12 G 33884941.62 33884941.80 33884941.98 0.0515 0.0015

Venus 88061-10-25 16:20 G 33884978.09 33884978.18 33884978.27 0.3623 0.1585

Saturn 88061-10-26 09:36 G 33884978.85 33884978.90 33884978.95 0.0264 0.0242

Saturn 88062-01-22 19:41 G 33885067.20 33885067.32 33885067.43 0.0264 0.0138

Saturn 88062-04-21 05:32 G 33885155.60 33885155.73 33885155.87 0.0263 0.0034

Saturn 88062-07-18 15:51 G 33885244.03 33885244.16 33885244.29 0.0263 0.0073

Saturn 88062-10-15 01:56 G 33885332.48 33885332.58 33885332.68 0.0262 0.0178

Earth 88064-09-18 20:10 G 33886037.23 33886037.34 33886037.44 0.2627 0.0838

Moon 88064-09-18 20:53 G 33886037.26 33886037.37 33886037.48 0.2625 0.0760 *

Uranus 88064-11-05 08:10 G 33886084.77 33886084.84 33886084.92 0.0134 0.0122

Uranus 88065-02-01 15:08 G 33886173.00 33886173.13 33886173.26 0.0134 0.0096

Uranus 88065-04-30 21:51 G 33886261.26 33886261.41 33886261.57 0.0134 0.0071

Uranus 88065-07-28 04:34 G 33886349.52 33886349.69 33886349.87 0.0134 0.0045

Uranus 88065-10-24 11:17 G 33886437.79 33886437.97 33886438.16 0.0134 0.0020

Uranus 88066-01-20 18:00 G 33886526.06 33886526.25 33886526.44 0.0134 0.0006

Uranus 88066-04-19 00:29 G 33886614.35 33886614.52 33886614.71 0.0134 0.0031

Uranus 88066-07-16 06:58 G 33886702.63 33886702.79 33886702.97 0.0134 0.0056

Uranus 88066-10-12 13:27 G 33886790.93 33886791.06 33886791.22 0.0134 0.0081

Uranus 88067-01-08 19:56 G 33886879.23 33886879.33 33886879.45 0.0134 0.0106

Uranus 88067-04-07 02:24 G 33886967.57 33886967.60 33886967.65 0.0134 0.0130

Jupiter 88067-05-11 18:29 G 33887002.14 33887002.27 33887002.40 0.0511 0.0021

Mars 88068-10-18 22:34 G 33887528.35 33887528.44 33887528.52 0.1594 0.1049

Neptune 88069-06-05 00:00 G 33887757.44 33887757.50 33887757.60 0.0090 0.0081

Neptune 88069-09-01 03:36 G 33887845.55 33887845.65 33887845.78 0.0090 0.0070

Neptune 88069-11-28 07:12 G 33887933.66 33887933.80 33887933.94 0.0090 0.0059

Neptune 88070-02-24 10:20 G 33888021.79 33888021.93 33888022.10 0.0090 0.0049

Neptune 88070-05-23 13:56 G 33888109.91 33888110.08 33888110.25 0.0090 0.0038

Neptune 88070-08-19 17:03 G 33888198.05 33888198.21 33888198.40 0.0090 0.0028

Mars 88070-09-24 00:00 G 33888233.38 33888233.50 33888233.61 0.1600 0.0356

Neptune 88070-11-15 20:39 G 33888286.18 33888286.36 33888286.54 0.0090 0.0017

Neptune 88071-02-12 00:00 G 33888374.32 33888374.50 33888374.69 0.0090 0.0006

Neptune 88071-05-11 03:22 G 33888462.45 33888462.64 33888462.82 0.0090 0.0005

Neptune 88071-08-07 06:44 G 33888550.59 33888550.78 33888550.96 0.0090 0.0015

Neptune 88071-11-03 09:51 G 33888638.74 33888638.91 33888639.09 0.0090 0.0026

Neptune 88072-01-30 13:12 G 33888726.88 33888727.05 33888727.22 0.0090 0.0036

Neptune 88072-04-27 16:05 G 33888815.03 33888815.17 33888815.35 0.0090 0.0047

Neptune 88072-07-24 19:27 G 33888903.18 33888903.31 33888903.47 0.0090 0.0057

Neptune 88072-10-20 23:03 G 33888991.34 33888991.46 33888991.58 0.0090 0.0067

Neptune 88073-01-17 01:56 G 33889079.50 33889079.58 33889079.69 0.0090 0.0078

Neptune 88073-04-15 05:03 G 33889167.69 33889167.71 33889167.76 0.0090 0.0088

Jupiter 88073-07-08 04:05 G 33889251.51 33889251.67 33889251.83 0.0514 0.0239

Mars 88073-07-08 14:53 G 33889252.00 33889252.12 33889252.23 0.1932 0.1360

Earth 88075-03-20 21:08 G 33889872.36 33889872.38 33889872.40 0.2705 0.2669

Moon 88075-03-20 21:51 G 33889872.37 33889872.41 33889872.46 0.2700 0.2558 *

Saturn 88077-08-13 03:08 G 33890748.48 33890748.63 33890748.78 0.0299 0.0165

Earth 88077-09-21 14:24 G 33890787.99 33890788.10 33890788.21 0.2627 0.0521

Moon 88077-09-21 14:53 G 33890788.01 33890788.12 33890788.23 0.2622 0.0639 *

Saturn 88077-11-10 04:20 G 33890837.50 33890837.68 33890837.85 0.0299 0.0051

Saturn 88078-02-07 04:48 G 33890926.62 33890926.70 33890926.79 0.0300 0.0263

Mars 88078-03-11 10:05 G 33890958.87 33890958.92 33890958.98 0.1592 0.1384

Jupiter 88079-02-27 22:48 G 33891312.33 33891312.45 33891312.57 0.0513 0.0190

Jupiter 88079-05-28 04:05 G 33891401.64 33891401.67 33891401.71 0.0510 0.0492

Mars 88080-02-14 11:32 G 33891663.86 33891663.98 33891664.10 0.1598 0.0009

Mars 88082-01-19 13:56 G 33892369.03 33892369.08 33892369.13 0.1607 0.1469

Venus 88082-06-04 13:27 G 33892504.91 33892505.06 33892505.22 0.3750 0.0576

Mars 88082-11-28 07:56 G 33892681.66 33892681.83 33892681.99 0.1936 0.0155

Jupiter 88085-04-26 00:44 G 33893561.48 33893561.53 33893561.59 0.0513 0.0490

Jupiter 88085-07-25 10:34 G 33893651.90 33893651.94 33893651.98 0.0515 0.0501

Moon 88088-03-23 01:41 G 33894623.42 33894623.57 33894623.72 0.2698 0.0094

Earth 88088-03-23 01:56 G 33894623.43 33894623.58 33894623.72 0.2706 0.0057 *

Mars 88089-07-06 23:03 G 33895094.35 33895094.46 33895094.58 0.1596 0.0343

Moon 88090-09-24 08:39 G 33895538.78 33895538.86 33895538.95 0.2620 0.1807

Earth 88090-09-24 08:53 G 33895538.79 33895538.87 33895538.95 0.2626 0.1903 *

Jupiter 88090-12-17 03:22 G 33895622.55 33895622.64 33895622.73 0.0513 0.0354

Jupiter 88091-03-16 08:39 G 33895711.76 33895711.86 33895711.96 0.0511 0.0327

Saturn 88091-06-11 22:34 G 33895799.34 33895799.44 33895799.55 0.0263 0.0165

Mars 88091-06-12 01:12 G 33895799.47 33895799.55 33895799.64 0.1605 0.1103 *

Saturn 88091-09-08 08:39 G 33895887.73 33895887.86 33895887.99 0.0263 0.0061

Saturn 88091-12-05 18:44 G 33895976.15 33895976.28 33895976.41 0.0262 0.0044

Saturn 88092-03-03 04:48 G 33896064.59 33896064.70 33896064.81 0.0262 0.0150

Mars 88092-04-19 00:15 G 33896111.37 33896111.51 33896111.64 0.1939 0.1105

Saturn 88092-05-30 15:08 G 33896153.11 33896153.13 33896153.16 0.0261 0.0255

Jupiter 88097-05-13 07:27 G 33897961.65 33897961.81 33897961.96 0.0515 0.0249

Earth 88097-09-17 06:44 G 33898088.71 33898088.78 33898088.86 0.2628 0.1893

Moon 88097-09-17 07:27 G 33898088.73 33898088.81 33898088.89 0.2631 0.1786 *

Mars 88098-11-27 10:34 G 33898524.84 33898524.94 33898525.05 0.1595 0.0683

Mars 88100-11-02 12:29 G 33899229.92 33899230.02 33899230.13 0.1602 0.0740

Moon 88101-03-27 05:03 G 33899374.65 33899374.71 33899374.76 0.2702 0.2467

Earth 88101-03-27 06:15 G 33899374.71 33899374.76 33899374.80 0.2706 0.2534 *

Jupiter 88103-01-03 13:12 G 33900021.92 33900022.05 33900022.17 0.0511 0.0162

Saturn 88107-01-01 00:00 G 33901480.40 33901480.50 33901480.62 0.0298 0.0236

Uranus 88107-02-06 04:48 G 33901516.63 33901516.70 33901516.76 0.0144 0.0124

Saturn 88107-03-31 01:27 G 33901569.37 33901569.56 33901569.74 0.0299 0.0021

Venus 88107-05-04 07:27 G 33901603.72 33901603.81 33901603.89 0.3623 0.1923

Uranus 88107-05-05 08:24 G 33901604.76 33901604.85 33901604.95 0.0144 0.0102

Saturn 88107-06-28 02:10 G 33901658.45 33901658.59 33901658.73 0.0299 0.0193

Uranus 88107-08-01 12:00 G 33901692.90 33901693.00 33901693.12 0.0144 0.0081

Uranus 88107-10-28 16:05 G 33901781.04 33901781.17 33901781.29 0.0144 0.0057

Uranus 88108-01-24 19:41 G 33901869.19 33901869.32 33901869.46 0.0144 0.0035

Mars 88108-04-19 22:20 G 33901955.34 33901955.43 33901955.52 0.1594 0.1019

Uranus 88108-04-21 23:32 G 33901957.35 33901957.48 33901957.62 0.0144 0.0013

Uranus 88108-07-19 03:22 G 33902045.51 33902045.64 33902045.78 0.0144 0.0011

Uranus 88108-10-15 07:12 G 33902133.67 33902133.80 33902133.94 0.0144 0.0034

Uranus 88109-01-11 11:03 G 33902221.84 33902221.96 33902222.09 0.0144 0.0057

Jupiter 88109-03-02 05:03 G 33902271.53 33902271.71 33902271.89 0.0515 0.0013

Uranus 88109-04-09 14:53 G 33902310.01 33902310.12 33902310.24 0.0144 0.0081

Uranus 88109-07-06 18:58 G 33902398.20 33902398.29 33902398.38 0.0144 0.0103

Uranus 88109-10-02 22:34 G 33902486.39 33902486.44 33902486.52 0.0144 0.0128

Mars 88110-03-26 00:00 G 33902660.38 33902660.50 33902660.61 0.1600 0.0389

Earth 88110-09-21 00:58 G 33902839.43 33902839.54 33902839.65 0.2627 0.0563

Moon 88110-09-21 01:41 G 33902839.46 33902839.57 33902839.69 0.2624 0.0469 *

Venus 88112-11-16 22:34 G 33903627.34 33903627.44 33903627.54 0.3623 0.0234

Mars 88113-01-07 15:51 G 33903679.05 33903679.16 33903679.26 0.1932 0.1439

Jupiter 88114-10-22 17:17 G 33904332.09 33904332.22 33904332.35 0.0511 0.0021

Mars 88117-09-10 10:05 G 33905385.86 33905385.92 33905385.98 0.1593 0.1351

Venus 88118-06-02 13:41 G 33905650.99 33905651.07 33905651.14 0.3623 0.2379

Mars 88119-08-16 11:32 G 33906090.86 33906090.98 33906091.10 0.1598 0.0045

Saturn 88120-10-30 01:12 G 33906531.47 33906531.55 33906531.64 0.0264 0.0198

Jupiter 88120-12-19 02:10 G 33906581.43 33906581.59 33906581.75 0.0514 0.0233

Saturn 88121-01-26 11:17 G 33906619.85 33906619.97 33906620.10 0.0264 0.0093

Earth 88121-03-22 03:22 G 33906674.56 33906674.64 33906674.73 0.2705 0.2169

Moon 88121-03-22 03:51 G 33906674.57 33906674.66 33906674.76 0.2699 0.2052 *

Saturn 88121-04-24 21:22 G 33906708.26 33906708.39 33906708.53 0.0263 0.0014

Mars 88121-07-21 13:56 G 33906796.04 33906796.08 33906796.12 0.1607 0.1503

Saturn 88121-07-22 07:27 G 33906796.70 33906796.81 33906796.94 0.0263 0.0119

Saturn 88121-10-18 17:46 G 33906885.17 33906885.24 33906885.31 0.0262 0.0224

Mars 88122-05-30 08:39 G 33907108.70 33907108.86 33907109.02 0.1936 0.0230

Earth 88123-09-23 19:27 G 33907590.20 33907590.31 33907590.42 0.2627 0.0798

Moon 88123-09-23 19:41 G 33907590.21 33907590.32 33907590.43 0.2621 0.0802 *

Jupiter 88126-08-10 21:22 G 33908642.27 33908642.39 33908642.51 0.0512 0.0185

Jupiter 88126-11-08 02:39 G 33908731.59 33908731.61 33908731.64 0.0510 0.0495

Mars 88129-01-05 23:03 G 33909521.34 33909521.46 33909521.58 0.1596 0.0308

Mars 88130-12-12 01:12 G 33910226.47 33910226.55 33910226.63 0.1605 0.1135

Mars 88131-10-20 01:12 G 33910538.41 33910538.55 33910538.69 0.1939 0.1016

Jupiter 88132-10-06 22:48 G 33910891.39 33910891.45 33910891.51 0.0513 0.0485

Jupiter 88133-01-05 08:39 G 33910981.84 33910981.86 33910981.89 0.0516 0.0508

Moon 88134-03-25 07:56 G 33911425.68 33911425.83 33911425.97 0.2699 0.0462

Earth 88134-03-25 08:10 G 33911425.69 33911425.84 33911425.98 0.2706 0.0466 *

Saturn 88136-05-19 23:46 G 33912212.44 33912212.49 33912212.54 0.0298 0.0286

Saturn 88136-08-17 00:58 G 33912301.37 33912301.54 33912301.72 0.0299 0.0071

Moon 88136-09-25 13:27 G 33912341.00 33912341.06 33912341.13 0.2620 0.2197

Earth 88136-09-25 13:56 G 33912341.01 33912341.08 33912341.14 0.2626 0.2178 *

Saturn 88136-11-14 01:56 G 33912390.42 33912390.58 33912390.74 0.0299 0.0143

Mars 88138-05-29 10:34 G 33912951.84 33912951.94 33912952.05 0.1595 0.0652

Jupiter 88138-05-30 01:41 G 33912952.48 33912952.57 33912952.66 0.0513 0.0357

Jupiter 88138-08-27 06:44 G 33913041.68 33913041.78 33913041.89 0.0511 0.0323

Venus 88139-01-10 15:51 G 33913178.08 33913178.16 33913178.23 0.3750 0.3278

Mars 88140-05-03 12:29 G 33913656.92 33913657.02 33913657.13 0.1602 0.0776

Earth 88143-09-19 11:46 G 33914890.90 33914890.99 33914891.07 0.2628 0.1632

Moon 88143-09-19 12:29 G 33914890.93 33914891.02 33914891.11 0.2629 0.1589 *

Jupiter 88144-10-24 05:46 G 33915291.58 33915291.74 33915291.89 0.0515 0.0259

Mars 88147-10-19 22:20 G 33916382.34 33916382.43 33916382.52 0.1594 0.0989

Uranus 88148-11-26 16:20 G 33916786.08 33916786.18 33916786.29 0.0134 0.0112

Uranus 88149-02-22 23:03 G 33916874.33 33916874.46 33916874.61 0.0134 0.0086

Uranus 88149-05-22 05:46 G 33916962.58 33916962.74 33916962.92 0.0134 0.0061

Uranus 88149-08-18 12:44 G 33917050.85 33917051.03 33917051.21 0.0134 0.0035

Mars 88149-09-24 00:00 G 33917087.38 33917087.50 33917087.61 0.1600 0.0421

Uranus 88149-11-14 19:27 G 33917139.12 33917139.31 33917139.49 0.0134 0.0009

Uranus 88150-02-11 01:56 G 33917227.40 33917227.58 33917227.77 0.0134 0.0017

Saturn 88150-03-19 04:34 G 33917263.63 33917263.69 33917263.76 0.0264 0.0223

Uranus 88150-05-10 08:39 G 33917315.68 33917315.86 33917316.04 0.0134 0.0041

Jupiter 88150-06-15 11:17 G 33917351.84 33917351.97 33917352.09 0.0511 0.0156

Saturn 88150-06-15 14:39 G 33917351.99 33917352.11 33917352.23 0.0263 0.0118 *

Uranus 88150-08-06 15:08 G 33917403.97 33917404.13 33917404.29 0.0134 0.0066

Neptune 88150-09-11 05:03 G 33917439.68 33917439.71 33917439.75 0.0088 0.0084

Saturn 88150-09-12 00:44 G 33917440.40 33917440.53 33917440.67 0.0263 0.0013

Uranus 88150-11-02 21:36 G 33917492.27 33917492.40 33917492.54 0.0134 0.0091

Neptune 88150-12-08 06:29 G 33917527.71 33917527.77 33917527.83 0.0088 0.0077

Saturn 88150-12-09 10:48 G 33917528.83 33917528.95 33917529.08 0.0262 0.0093

Uranus 88151-01-30 03:51 G 33917580.59 33917580.66 33917580.77 0.0134 0.0116

Neptune 88151-03-06 07:41 G 33917615.75 33917615.82 33917615.91 0.0088 0.0070

Saturn 88151-03-07 20:53 G 33917617.29 33917617.37 33917617.47 0.0262 0.0199

Neptune 88151-06-02 09:08 G 33917703.79 33917703.88 33917703.98 0.0088 0.0063

Neptune 88151-08-29 10:34 G 33917791.84 33917791.94 33917792.05 0.0088 0.0055

Neptune 88151-11-25 11:46 G 33917879.89 33917879.99 33917880.11 0.0088 0.0049

Neptune 88152-02-21 13:12 G 33917967.94 33917968.05 33917968.18 0.0088 0.0041

Neptune 88152-05-19 14:53 G 33918055.99 33918056.12 33918056.24 0.0088 0.0034

Mars 88152-07-08 16:05 G 33918106.07 33918106.17 33918106.28 0.1932 0.1499

Neptune 88152-08-15 16:05 G 33918144.04 33918144.17 33918144.30 0.0088 0.0027

Neptune 88152-11-11 17:32 G 33918232.10 33918232.23 33918232.36 0.0088 0.0020

Neptune 88153-02-07 18:58 G 33918320.15 33918320.29 33918320.42 0.0088 0.0012

Neptune 88153-05-06 20:24 G 33918408.21 33918408.35 33918408.48 0.0088 0.0005

Neptune 88153-08-02 21:36 G 33918496.27 33918496.40 33918496.54 0.0088 0.0004

Neptune 88153-10-29 23:03 G 33918584.33 33918584.46 33918584.60 0.0088 0.0010

Neptune 88154-01-26 00:29 G 33918672.39 33918672.52 33918672.66 0.0088 0.0017

Neptune 88154-04-24 01:56 G 33918760.45 33918760.58 33918760.71 0.0088 0.0024

Neptune 88154-07-21 03:08 G 33918848.51 33918848.63 33918848.77 0.0088 0.0032

Neptune 88154-10-17 04:34 G 33918936.58 33918936.69 33918936.82 0.0088 0.0039

Neptune 88155-01-13 06:15 G 33919024.64 33919024.76 33919024.87 0.0088 0.0046

Neptune 88155-04-11 07:27 G 33919112.71 33919112.81 33919112.93 0.0088 0.0053

Neptune 88155-07-08 08:53 G 33919200.78 33919200.87 33919200.98 0.0088 0.0061

Neptune 88155-10-04 10:34 G 33919288.85 33919288.94 33919289.02 0.0088 0.0068

Neptune 88155-12-31 11:46 G 33919376.93 33919376.99 33919377.07 0.0088 0.0075

Neptune 88156-03-28 13:12 G 33919465.02 33919465.05 33919465.10 0.0088 0.0083

Jupiter 88156-08-12 02:10 G 33919601.41 33919601.59 33919601.77 0.0514 0.0010

Earth 88156-09-21 06:00 G 33919641.63 33919641.75 33919641.86 0.2627 0.0299

Moon 88156-09-21 06:44 G 33919641.66 33919641.78 33919641.89 0.2624 0.0195 *

Mars 88157-03-11 10:05 G 33919812.86 33919812.92 33919812.99 0.1592 0.1319

Venus 88158-05-25 13:41 G 33920253.03 33920253.07 33920253.11 0.3623 0.3260

Mars 88159-02-14 11:32 G 33920517.86 33920517.98 33920518.09 0.1598 0.0089

Mars 88161-01-19 13:56 G 33921223.04 33921223.08 33921223.11 0.1607 0.1531

Mars 88161-11-28 09:22 G 33921535.73 33921535.89 33921536.05 0.1936 0.0301

Jupiter 88162-04-03 15:51 G 33921662.03 33921662.16 33921662.29 0.0512 0.0015

Venus 88163-12-09 04:48 G 33922276.60 33922276.70 33922276.79 0.3623 0.1140

Saturn 88166-01-03 22:48 G 33923033.29 33923033.45 33923033.62 0.0298 0.0135

Saturn 88166-04-03 00:00 G 33923122.32 33923122.50 33923122.67 0.0299 0.0080

Saturn 88166-07-01 00:29 G 33923211.49 33923211.52 33923211.56 0.0300 0.0292

Earth 88167-03-23 09:51 G 33923476.79 33923476.91 33923477.02 0.2705 0.1675

Moon 88167-03-23 10:05 G 33923476.81 33923476.92 33923477.04 0.2698 0.1688 *

Jupiter 88168-05-30 23:32 G 33923911.32 33923911.48 33923911.64 0.0514 0.0240

Mars 88168-07-06 23:03 G 33923948.34 33923948.46 33923948.58 0.1597 0.0276

Venus 88169-06-23 19:41 G 33924300.23 33924300.32 33924300.42 0.3623 0.1018

Moon 88169-09-24 00:29 G 33924392.41 33924392.52 33924392.62 0.2620 0.1101

Earth 88169-09-24 00:15 G 33924392.41 33924392.51 33924392.62 0.2627 0.1075 *

Mars 88170-06-12 01:12 G 33924653.47 33924653.55 33924653.63 0.1605 0.1167

Mars 88171-04-20 02:10 G 33924965.45 33924965.59 33924965.74 0.1939 0.0929

Jupiter 88174-01-20 19:56 G 33925972.21 33925972.33 33925972.45 0.0512 0.0182

Jupiter 88174-04-20 01:12 G 33926061.53 33926061.55 33926061.58 0.0510 0.0497

Venus 88175-01-07 11:03 G 33926323.91 33926323.96 33926324.00 0.3623 0.3183

Mars 88177-11-27 10:34 G 33927378.83 33927378.94 33927379.05 0.1595 0.0620

Saturn 88179-08-06 07:27 G 33927995.78 33927995.81 33927995.85 0.0265 0.0254

Mars 88179-11-02 12:29 G 33928083.92 33928084.02 33928084.12 0.1602 0.0807

Saturn 88179-11-02 17:32 G 33928084.12 33928084.23 33928084.34 0.0264 0.0149 *

Saturn 88180-01-30 03:36 G 33928172.52 33928172.65 33928172.78 0.0264 0.0043

Jupiter 88180-03-18 20:10 G 33928221.30 33928221.34 33928221.40 0.0514 0.0490

Moon 88180-03-25 13:56 G 33928227.94 33928228.08 33928228.22 0.2700 0.0892

Earth 88180-03-25 14:24 G 33928227.96 33928228.10 33928228.24 0.2706 0.0956 *

Saturn 88180-04-27 13:41 G 33928260.94 33928261.07 33928261.20 0.0263 0.0062

Jupiter 88180-06-17 06:15 G 33928311.74 33928311.76 33928311.80 0.0516 0.0506

Saturn 88180-07-24 23:46 G 33928349.39 33928349.49 33928349.60 0.0263 0.0169

Moon 88182-09-26 18:29 G 33929143.22 33929143.27 33929143.32 0.2620 0.2362

Earth 88182-09-26 18:44 G 33929143.24 33929143.28 33929143.32 0.2626 0.2458 *

Jupiter 88185-11-09 00:15 G 33930282.42 33930282.51 33930282.60 0.0513 0.0353

Jupiter 88186-02-06 05:17 G 33930371.62 33930371.72 33930371.82 0.0510 0.0325

Mars 88187-04-19 22:20 G 33930809.34 33930809.43 33930809.52 0.1593 0.0955

Mars 88189-03-25 00:00 G 33931514.38 33931514.50 33931514.61 0.1600 0.0454

Earth 88189-09-19 16:34 G 33931693.09 33931693.19 33931693.29 0.2628 0.1365

Moon 88189-09-19 17:17 G 33931693.12 33931693.22 33931693.32 0.2628 0.1203 *

Venus 88190-01-31 07:41 G 33931826.70 33931826.82 33931826.94 0.3750 0.2453

Uranus 88190-11-30 08:53 G 33932129.84 33932129.87 33932129.92 0.0144 0.0137

Uranus 88191-02-26 12:58 G 33932217.96 33932218.04 33932218.12 0.0144 0.0114

Uranus 88191-05-25 16:34 G 33932306.09 33932306.19 33932306.30 0.0144 0.0092

Uranus 88191-08-21 20:10 G 33932394.23 33932394.34 33932394.47 0.0144 0.0070

Uranus 88191-11-18 00:15 G 33932482.38 33932482.51 33932482.63 0.0144 0.0047

Mars 88192-01-07 17:03 G 33932533.12 33932533.21 33932533.30 0.1933 0.1574

Uranus 88192-02-14 03:51 G 33932570.53 33932570.66 33932570.80 0.0144 0.0025

Jupiter 88192-04-05 03:22 G 33932621.48 33932621.64 33932621.79 0.0515 0.0257

Uranus 88192-05-12 07:41 G 33932658.69 33932658.82 33932658.96 0.0144 0.0005

Uranus 88192-08-08 11:32 G 33932746.85 33932746.98 33932747.12 0.0144 0.0022

Uranus 88192-11-04 15:22 G 33932835.02 33932835.14 33932835.27 0.0144 0.0045

Uranus 88193-01-31 19:12 G 33932923.19 33932923.30 33932923.43 0.0144 0.0068

Uranus 88193-04-29 23:17 G 33933011.36 33933011.47 33933011.57 0.0144 0.0091

Uranus 88193-07-27 02:53 G 33933099.55 33933099.62 33933099.71 0.0144 0.0115

Uranus 88193-10-23 06:58 G 33933187.76 33933187.79 33933187.83 0.0144 0.0137

Saturn 88195-05-23 23:03 G 33933765.32 33933765.46 33933765.61 0.0298 0.0181

Saturn 88195-08-21 00:15 G 33933854.33 33933854.51 33933854.69 0.0299 0.0035

Saturn 88195-11-18 00:58 G 33933943.44 33933943.54 33933943.64 0.0300 0.0247

Mars 88196-09-09 10:05 G 33934239.85 33934239.92 33934239.99 0.1592 0.1290

Jupiter 88197-11-25 09:22 G 33934681.77 33934681.89 33934682.02 0.0511 0.0149

Mars 88198-08-15 11:32 G 33934944.86 33934944.98 33934945.09 0.1598 0.0109

Mars 88200-07-21 13:56 G 33935650.06 33935650.08 33935650.10 0.1607 0.1566

Mars 88201-05-30 10:20 G 33935962.77 33935962.93 33935963.09 0.1936 0.0382

Earth 88202-09-23 10:48 G 33936443.84 33936443.95 33936444.07 0.2627 0.0048

Moon 88202-09-23 11:32 G 33936443.86 33936443.98 33936444.09 0.2624 0.0043 *

Jupiter 88204-01-24 00:15 G 33936931.33 33936931.51 33936931.69 0.0514 0.0009

Pluto 88207-12-08 11:46 G 33938345.94 33938345.99 33938346.09 0.0061 0.0056

Mars 88208-01-06 23:03 G 33938375.34 33938375.46 33938375.57 0.1596 0.0254

Pluto 88208-03-05 12:44 G 33938433.94 33938434.03 33938434.17 0.0061 0.0046

Pluto 88208-06-01 14:10 G 33938521.95 33938522.09 33938522.24 0.0062 0.0035

Pluto 88208-08-28 15:08 G 33938609.98 33938610.13 33938610.30 0.0062 0.0024

Pluto 88208-11-24 16:20 G 33938698.01 33938698.18 33938698.36 0.0062 0.0014

Pluto 88209-02-20 17:17 G 33938786.05 33938786.22 33938786.40 0.0062 0.0004

Saturn 88209-03-22 21:08 G 33938816.28 33938816.38 33938816.48 0.0264 0.0171

Pluto 88209-05-19 18:29 G 33938874.10 33938874.27 33938874.45 0.0062 0.0007

Saturn 88209-06-19 07:12 G 33938904.67 33938904.80 33938904.93 0.0263 0.0066

Pluto 88209-08-15 19:27 G 33938962.15 33938962.31 33938962.48 0.0062 0.0018

Jupiter 88209-09-14 13:41 G 33938991.94 33938992.07 33938992.20 0.0512 0.0022

Saturn 88209-09-15 17:17 G 33938993.09 33938993.22 33938993.35 0.0263 0.0039

Pluto 88209-11-11 20:24 G 33939050.20 33939050.35 33939050.51 0.0062 0.0028

Mars 88209-12-12 01:12 G 33939080.47 33939080.55 33939080.63 0.1604 0.1199

Saturn 88209-12-13 03:22 G 33939081.53 33939081.64 33939081.76 0.0262 0.0146

Pluto 88210-02-07 21:22 G 33939138.26 33939138.39 33939138.54 0.0062 0.0039

Saturn 88210-03-11 13:41 G 33939170.04 33939170.07 33939170.11 0.0262 0.0252

Pluto 88210-05-06 22:34 G 33939226.34 33939226.44 33939226.55 0.0062 0.0050

Pluto 88210-08-02 23:17 G 33939314.45 33939314.47 33939314.53 0.0062 0.0061

Mars 88210-10-20 02:39 G 33939392.46 33939392.61 33939392.75 0.1939 0.0874

Earth 88213-03-24 16:05 G 33940279.04 33940279.17 33940279.30 0.2705 0.1182

Moon 88213-03-24 16:20 G 33940279.05 33940279.18 33940279.32 0.2698 0.1053 *

Venus 88214-12-31 10:48 G 33940925.88 33940925.95 33940926.03 0.3623 0.2475

Moon 88215-09-26 05:17 G 33941194.62 33941194.72 33941194.82 0.2620 0.1361

Earth 88215-09-26 05:17 G 33941194.62 33941194.72 33941194.82 0.2627 0.1348 *

Jupiter 88215-11-11 20:24 G 33941241.20 33941241.35 33941241.51 0.0514 0.0253

Mars 88217-05-29 10:34 G 33941805.83 33941805.94 33941806.05 0.1595 0.0587

Mars 88219-05-04 12:29 G 33942510.92 33942511.02 33942511.12 0.1602 0.0835

Venus 88220-07-16 01:56 G 33942949.48 33942949.58 33942949.68 0.3623 0.0354

Jupiter 88221-07-03 18:15 G 33943302.14 33943302.26 33943302.38 0.0513 0.0185

Jupiter 88221-09-30 23:32 G 33943391.46 33943391.48 33943391.51 0.0510 0.0496

Earth 88222-09-19 03:22 G 33943744.60 33943744.64 33943744.68 0.2628 0.2424

Moon 88222-09-19 03:51 G 33943744.61 33943744.66 33943744.71 0.2633 0.2306 *

Saturn 88224-10-10 21:51 G 33944497.30 33944497.41 33944497.52 0.0298 0.0237

Saturn 88225-01-07 23:03 G 33944586.28 33944586.46 33944586.64 0.0299 0.0022

Saturn 88225-04-07 00:00 G 33944675.36 33944675.50 33944675.63 0.0299 0.0192

Venus 88226-01-29 17:03 G 33944973.12 33944973.21 33944973.30 0.3623 0.1809

Moon 88226-03-27 19:41 G 33945030.19 33945030.32 33945030.45 0.2701 0.1268

Earth 88226-03-27 20:39 G 33945030.24 33945030.36 33945030.48 0.2706 0.1432 *

Mars 88226-10-19 22:20 G 33945236.33 33945236.43 33945236.52 0.1594 0.0925

Jupiter 88227-08-30 17:17 G 33945551.19 33945551.22 33945551.26 0.0513 0.0501

Jupiter 88227-11-29 03:22 G 33945641.59 33945641.64 33945641.69 0.0516 0.0493

Mars 88228-09-24 00:00 G 33945941.38 33945941.50 33945941.61 0.1600 0.0487

Mars 88231-07-09 18:15 G 33946960.17 33946960.26 33946960.34 0.1932 0.1662

Uranus 88232-09-20 17:46 G 33947399.18 33947399.24 33947399.30 0.0134 0.0127

Uranus 88232-12-18 00:44 G 33947487.41 33947487.53 33947487.65 0.0134 0.0101

Uranus 88233-03-16 07:12 G 33947575.66 33947575.80 33947575.97 0.0134 0.0075

Jupiter 88233-04-21 22:34 G 33947612.35 33947612.44 33947612.53 0.0513 0.0355

Uranus 88233-06-12 14:10 G 33947663.92 33947664.09 33947664.27 0.0134 0.0049

Jupiter 88233-07-20 03:36 G 33947701.55 33947701.65 33947701.75 0.0510 0.0323

Uranus 88233-09-08 20:53 G 33947752.19 33947752.37 33947752.56 0.0134 0.0024

Neptune 88233-12-05 18:15 G 33947840.26 33947840.26 33947840.26 0.0090 0.0090

Uranus 88233-12-06 03:36 G 33947840.46 33947840.65 33947840.84 0.0134 0.0002

Neptune 88234-03-03 21:36 G 33947928.32 33947928.40 33947928.49 0.0090 0.0079

Uranus 88234-03-04 10:05 G 33947928.74 33947928.92 33947929.11 0.0134 0.0027

Neptune 88234-05-31 00:44 G 33948016.42 33948016.53 33948016.66 0.0090 0.0069

Uranus 88234-05-31 16:48 G 33948017.03 33948017.20 33948017.37 0.0134 0.0052

Neptune 88234-08-27 04:05 G 33948104.54 33948104.67 33948104.83 0.0090 0.0058

Uranus 88234-08-27 23:17 G 33948105.32 33948105.47 33948105.62 0.0134 0.0077

Neptune 88234-11-23 07:41 G 33948192.67 33948192.82 33948192.99 0.0090 0.0047

Uranus 88234-11-24 05:46 G 33948193.63 33948193.74 33948193.86 0.0134 0.0102

Neptune 88235-02-19 10:48 G 33948280.80 33948280.95 33948281.14 0.0090 0.0037

Uranus 88235-02-20 12:00 G 33948281.96 33948282.00 33948282.07 0.0134 0.0127

Neptune 88235-05-18 14:24 G 33948368.93 33948369.10 33948369.29 0.0090 0.0026

Neptune 88235-08-14 18:00 G 33948457.06 33948457.25 33948457.43 0.0090 0.0015

Earth 88235-09-21 21:22 G 33948495.29 33948495.39 33948495.50 0.2628 0.1104

Moon 88235-09-21 22:20 G 33948495.32 33948495.43 33948495.53 0.2627 0.1067 *

Neptune 88235-11-10 21:08 G 33948545.20 33948545.38 33948545.57 0.0090 0.0005

Neptune 88236-02-07 00:29 G 33948633.34 33948633.52 33948633.71 0.0090 0.0006

Mars 88236-03-11 10:05 G 33948666.85 33948666.92 33948666.99 0.1592 0.1258

Neptune 88236-05-05 03:51 G 33948721.48 33948721.66 33948721.84 0.0090 0.0017

Neptune 88236-08-01 07:12 G 33948809.62 33948809.80 33948809.98 0.0090 0.0027

Neptune 88236-10-28 10:20 G 33948897.77 33948897.93 33948898.10 0.0090 0.0038

Neptune 88237-01-24 13:41 G 33948985.92 33948986.07 33948986.23 0.0090 0.0048

Neptune 88237-04-22 16:34 G 33949074.07 33949074.19 33949074.35 0.0090 0.0059

Neptune 88237-07-19 19:56 G 33949162.23 33949162.33 33949162.46 0.0090 0.0069

Neptune 88237-10-15 23:17 G 33949250.40 33949250.47 33949250.57 0.0090 0.0079

Neptune 88238-01-12 02:24 G 33949338.60 33949338.60 33949338.63 0.0090 0.0090

Mars 88238-02-14 11:32 G 33949371.86 33949371.98 33949372.09 0.1598 0.0145

Saturn 88238-08-10 00:00 G 33949548.42 33949548.50 33949548.59 0.0264 0.0202

Saturn 88238-11-06 10:05 G 33949636.80 33949636.92 33949637.04 0.0264 0.0096

Saturn 88239-02-02 20:10 G 33949725.21 33949725.34 33949725.47 0.0263 0.0010

Saturn 88239-05-02 06:15 G 33949813.64 33949813.76 33949813.88 0.0263 0.0116

Saturn 88239-07-29 16:20 G 33949902.12 33949902.18 33949902.26 0.0263 0.0223

Jupiter 88239-09-17 00:29 G 33949951.36 33949951.52 33949951.68 0.0515 0.0246

Mars 88240-01-20 13:56 G 33950077.07 33950077.08 33950077.09 0.1607 0.1598

Mars 88240-11-28 11:03 G 33950389.80 33950389.96 33950390.12 0.1936 0.0455

Jupiter 88245-05-08 07:56 G 33952011.70 33952011.83 33952011.95 0.0511 0.0151

Mars 88245-08-01 21:51 G 33952097.40 33952097.41 33952097.41 0.1591 0.1586

Venus 88246-09-08 10:05 G 33952499.77 33952499.92 33952500.08 0.3750 0.0339

Mars 88247-07-07 23:03 G 33952802.34 33952802.46 33952802.57 0.1596 0.0218

Earth 88248-09-23 15:51 G 33953246.04 33953246.16 33953246.27 0.2627 0.0262

Moon 88248-09-23 16:20 G 33953246.06 33953246.18 33953246.29 0.2623 0.0368 *

Mars 88249-06-12 01:12 G 33953507.47 33953507.55 33953507.62 0.1605 0.1231

Mars 88250-04-20 03:51 G 33953819.51 33953819.66 33953819.81 0.1939 0.0781

Jupiter 88251-07-05 21:22 G 33954261.21 33954261.39 33954261.57 0.0514 0.0005

Saturn 88254-02-27 22:05 G 33955229.37 33955229.42 33955229.48 0.0298 0.0282

Saturn 88254-05-27 23:32 G 33955318.30 33955318.48 33955318.66 0.0299 0.0066

Saturn 88254-08-25 00:15 G 33955407.36 33955407.51 33955407.67 0.0299 0.0148

Mars 88256-11-27 10:34 G 33956232.83 33956232.94 33956233.05 0.1595 0.0557

Jupiter 88257-02-24 11:46 G 33956321.86 33956321.99 33956322.12 0.0512 0.0028

Mars 88258-11-02 12:29 G 33956937.92 33956938.02 33956938.12 0.1602 0.0871

Earth 88259-03-25 22:34 G 33957081.29 33957081.44 33957081.58 0.2705 0.0684

Moon 88259-03-25 22:34 G 33957081.30 33957081.44 33957081.59 0.2699 0.0750 *

Moon 88261-09-26 10:05 G 33957996.83 33957996.92 33957997.01 0.2620 0.1605

Earth 88261-09-26 10:05 G 33957996.83 33957996.92 33957997.01 0.2626 0.1625 *

Jupiter 88263-04-23 18:00 G 33958571.10 33958571.25 33958571.41 0.0514 0.0255

Mars 88266-04-19 22:20 G 33959663.33 33959663.43 33959663.52 0.1593 0.0899

Saturn 88267-12-28 03:51 G 33960280.59 33960280.66 33960280.73 0.0264 0.0222

Mars 88268-03-24 23:46 G 33960368.38 33960368.49 33960368.61 0.1600 0.0514

Saturn 88268-03-25 13:41 G 33960368.96 33960369.07 33960369.20 0.0264 0.0118

Saturn 88268-06-22 00:00 G 33960457.36 33960457.50 33960457.63 0.0263 0.0014

Saturn 88268-09-18 10:05 G 33960545.79 33960545.92 33960546.04 0.0263 0.0094

Earth 88268-09-19 08:10 G 33960546.78 33960546.84 33960546.90 0.2628 0.2160

Moon 88268-09-19 08:53 G 33960546.80 33960546.87 33960546.93 0.2631 0.2128 *

Jupiter 88268-12-13 16:05 G 33960632.05 33960632.17 33960632.29 0.0513 0.0198

Saturn 88268-12-15 20:10 G 33960634.26 33960634.34 33960634.43 0.0262 0.0201

Jupiter 88269-03-12 21:22 G 33960721.35 33960721.39 33960721.43 0.0510 0.0483

Mars 88271-01-07 18:29 G 33961387.19 33961387.27 33961387.34 0.1933 0.1711

Venus 88271-08-07 08:10 G 33961598.75 33961598.84 33961598.93 0.3623 0.1685

Moon 88272-03-28 01:56 G 33961832.47 33961832.58 33961832.68 0.2701 0.1851

Earth 88272-03-28 02:53 G 33961832.52 33961832.62 33961832.72 0.2706 0.1912 *

Uranus 88274-12-21 16:48 G 33962831.15 33962831.20 33962831.26 0.0144 0.0128

Uranus 88275-03-19 20:39 G 33962919.27 33962919.36 33962919.45 0.0144 0.0106

Jupiter 88275-05-11 00:15 G 33962971.45 33962971.51 33962971.58 0.0515 0.0477

Uranus 88275-06-16 00:15 G 33963007.41 33963007.51 33963007.63 0.0144 0.0084

Mars 88275-09-10 10:05 G 33963093.84 33963093.92 33963093.99 0.1592 0.1227

Uranus 88275-09-12 04:05 G 33963095.55 33963095.67 33963095.80 0.0144 0.0061

Uranus 88275-12-09 07:56 G 33963183.70 33963183.83 33963183.96 0.0144 0.0039

Uranus 88276-03-06 11:46 G 33963271.86 33963271.99 33963272.13 0.0144 0.0016

Uranus 88276-06-02 15:36 G 33963360.01 33963360.15 33963360.29 0.0144 0.0007

Uranus 88276-08-29 19:27 G 33963448.18 33963448.31 33963448.44 0.0144 0.0030

Uranus 88276-11-25 23:17 G 33963536.35 33963536.47 33963536.60 0.0144 0.0053

Venus 88277-02-19 23:17 G 33963622.37 33963622.47 33963622.57 0.3623 0.0447

Uranus 88277-02-22 03:08 G 33963624.52 33963624.63 33963624.75 0.0144 0.0076

Uranus 88277-05-21 06:58 G 33963712.70 33963712.79 33963712.89 0.0144 0.0100

Mars 88277-08-15 11:17 G 33963798.85 33963798.97 33963799.09 0.1598 0.0166

Uranus 88277-08-17 10:48 G 33963800.89 33963800.95 33963801.03 0.0144 0.0123

Mars 88280-05-29 12:00 G 33964816.84 33964817.00 33964817.15 0.1936 0.0535

Jupiter 88280-10-01 20:39 G 33964942.27 33964942.36 33964942.45 0.0513 0.0364

Jupiter 88280-12-30 01:41 G 33965031.47 33965031.57 33965031.68 0.0511 0.0317

Earth 88281-09-22 02:24 G 33965297.49 33965297.60 33965297.71 0.2627 0.0832

Moon 88281-09-22 03:08 G 33965297.52 33965297.63 33965297.74 0.2627 0.0661 *

Venus 88282-09-05 14:24 G 33965646.03 33965646.10 33965646.17 0.3622 0.2615

Saturn 88283-10-14 22:48 G 33966050.28 33966050.45 33966050.62 0.0298 0.0118

Saturn 88284-01-11 23:46 G 33966139.32 33966139.49 33966139.66 0.0299 0.0096

Mars 88285-01-30 21:51 G 33966524.39 33966524.41 33966524.43 0.1591 0.1557

Mars 88287-01-05 23:03 G 33967229.34 33967229.46 33967229.57 0.1596 0.0193

Jupiter 88287-02-26 21:22 G 33967281.23 33967281.39 33967281.55 0.0515 0.0231

Mars 88288-12-11 01:12 G 33967934.48 33967934.55 33967934.62 0.1605 0.1263

Mars 88289-10-19 04:34 G 33968246.54 33968246.69 33968246.84 0.1939 0.0700

Jupiter 88292-10-18 06:00 G 33969341.63 33969341.75 33969341.88 0.0511 0.0147

Earth 88294-09-24 20:39 G 33970048.25 33970048.36 33970048.47 0.2627 0.0523

Moon 88294-09-24 21:08 G 33970048.26 33970048.38 33970048.49 0.2621 0.0513 *

Mars 88296-05-28 10:34 G 33970659.83 33970659.94 33970660.05 0.1595 0.0526

Saturn 88297-05-16 06:44 G 33971012.75 33971012.78 33971012.82 0.0265 0.0251

Saturn 88297-08-12 16:48 G 33971101.09 33971101.20 33971101.31 0.0264 0.0146

Saturn 88297-11-09 02:53 G 33971189.49 33971189.62 33971189.75 0.0264 0.0041

Saturn 88298-02-05 12:58 G 33971277.91 33971278.04 33971278.17 0.0263 0.0066

Mars 88298-05-03 12:29 G 33971364.92 33971365.02 33971365.12 0.1602 0.0901

Saturn 88298-05-04 23:17 G 33971366.37 33971366.47 33971366.57 0.0263 0.0172

Jupiter 88298-12-15 18:15 G 33971591.08 33971591.26 33971591.44 0.0515 0.0021

Pluto 88300-04-11 02:39 G 33972072.53 33972072.61 33972072.70 0.0082 0.0066

Pluto 88300-07-08 03:51 G 33972160.55 33972160.66 33972160.79 0.0082 0.0046

Pluto 88300-10-04 05:17 G 33972248.59 33972248.72 33972248.86 0.0082 0.0025

Pluto 88300-12-31 06:44 G 33972336.64 33972336.78 33972336.93 0.0082 0.0005

Pluto 88301-03-29 08:10 G 33972424.70 33972424.84 33972424.98 0.0082 0.0015

Pluto 88301-06-25 09:22 G 33972512.77 33972512.89 33972513.03 0.0082 0.0036

Pluto 88301-09-21 10:34 G 33972600.85 33972600.94 33972601.06 0.0082 0.0056

Pluto 88301-12-18 12:00 G 33972688.96 33972689.00 33972689.06 0.0082 0.0076

Venus 88303-04-16 12:44 G 33973172.94 33973173.03 33973173.11 0.3750 0.3102

Jupiter 88304-08-07 10:20 G 33973651.80 33973651.93 33973652.06 0.0511 0.0025

Moon 88305-03-27 04:34 G 33973883.54 33973883.69 33973883.84 0.2699 0.0130

Earth 88305-03-27 04:48 G 33973883.55 33973883.70 33973883.85 0.2706 0.0191 *

Mars 88305-10-19 22:20 G 33974090.33 33974090.43 33974090.53 0.1593 0.0862

Mars 88307-09-24 23:46 G 33974795.38 33974795.49 33974795.61 0.1600 0.0548

Moon 88307-09-28 14:53 G 33974799.05 33974799.12 33974799.20 0.2620 0.1923

Earth 88307-09-28 15:08 G 33974799.05 33974799.13 33974799.20 0.2626 0.1900 *

Mars 88310-07-09 19:27 G 33975814.25 33975814.31 33975814.37 0.1933 0.1797

Jupiter 88310-10-04 15:08 G 33975900.97 33975901.13 33975901.28 0.0514 0.0269

Saturn 88313-03-03 23:03 G 33976782.31 33976782.46 33976782.61 0.0298 0.0163

Saturn 88313-06-01 00:15 G 33976871.33 33976871.51 33976871.69 0.0299 0.0052

Saturn 88313-08-29 00:44 G 33976960.46 33976960.53 33976960.62 0.0299 0.0265

Earth 88314-09-21 12:58 G 33977348.97 33977349.04 33977349.12 0.2628 0.1903

Moon 88314-09-21 13:41 G 33977348.99 33977349.07 33977349.16 0.2630 0.1782 *

Mars 88315-03-12 09:51 G 33977520.84 33977520.91 33977520.99 0.1592 0.1199

Neptune 88315-06-10 03:51 G 33977610.63 33977610.66 33977610.72 0.0088 0.0083

Neptune 88315-09-06 05:17 G 33977698.67 33977698.72 33977698.80 0.0088 0.0076

Neptune 88315-12-03 06:58 G 33977786.71 33977786.79 33977786.88 0.0088 0.0068

Neptune 88316-02-29 08:24 G 33977874.75 33977874.85 33977874.95 0.0088 0.0061

Jupiter 88316-05-26 14:10 G 33977961.97 33977962.09 33977962.21 0.0513 0.0206

Neptune 88316-05-27 09:36 G 33977962.80 33977962.90 33977963.01 0.0088 0.0054

Neptune 88316-08-23 11:03 G 33978050.85 33978050.96 33978051.08 0.0088 0.0047

Jupiter 88316-08-23 19:27 G 33978051.26 33978051.31 33978051.36 0.0510 0.0474

Uranus 88316-10-12 01:56 G 33978100.50 33978100.58 33978100.69 0.0134 0.0115

Neptune 88316-11-19 12:15 G 33978138.90 33978139.01 33978139.14 0.0088 0.0040

Uranus 88317-01-08 08:53 G 33978188.74 33978188.87 33978189.02 0.0134 0.0089

Mars 88317-02-14 11:17 G 33978225.86 33978225.97 33978226.09 0.1598 0.0200

Neptune 88317-02-15 13:41 G 33978226.95 33978227.07 33978227.20 0.0088 0.0033

Uranus 88317-04-06 15:51 G 33978276.99 33978277.16 33978277.32 0.0134 0.0063

Neptune 88317-05-14 15:08 G 33978315.00 33978315.13 33978315.27 0.0088 0.0025

Uranus 88317-07-03 22:20 G 33978365.26 33978365.43 33978365.62 0.0134 0.0038

Neptune 88317-08-10 16:34 G 33978403.06 33978403.19 33978403.33 0.0088 0.0018

Uranus 88317-09-30 05:17 G 33978453.53 33978453.72 33978453.90 0.0134 0.0012

Neptune 88317-11-06 18:00 G 33978491.11 33978491.25 33978491.39 0.0088 0.0011

Uranus 88317-12-27 12:00 G 33978541.81 33978542.00 33978542.18 0.0134 0.0013

Neptune 88318-02-02 19:27 G 33978579.17 33978579.31 33978579.45 0.0088 0.0004

Uranus 88318-03-25 18:29 G 33978630.09 33978630.27 33978630.45 0.0134 0.0038

Moon 88318-03-30 08:10 G 33978634.75 33978634.84 33978634.92 0.2701 0.2172

Earth 88318-03-30 09:08 G 33978634.82 33978634.88 33978634.95 0.2706 0.2395 *

Neptune 88318-05-01 20:53 G 33978667.23 33978667.37 33978667.50 0.0088 0.0005

Uranus 88318-06-22 01:12 G 33978718.38 33978718.55 33978718.71 0.0134 0.0063

Neptune 88318-07-28 22:05 G 33978755.29 33978755.42 33978755.56 0.0088 0.0011

Uranus 88318-09-18 07:41 G 33978806.68 33978806.82 33978806.96 0.0134 0.0088

Neptune 88318-10-24 23:32 G 33978843.35 33978843.48 33978843.62 0.0088 0.0018

Uranus 88318-12-15 13:56 G 33978894.99 33978895.08 33978895.19 0.0134 0.0113

Neptune 88319-01-21 00:58 G 33978931.41 33978931.54 33978931.67 0.0088 0.0026

Neptune 88319-04-19 02:24 G 33979019.47 33979019.60 33979019.73 0.0088 0.0033

Neptune 88319-07-16 03:36 G 33979107.54 33979107.65 33979107.78 0.0088 0.0041

Neptune 88319-10-12 05:03 G 33979195.60 33979195.71 33979195.83 0.0088 0.0048

Mars 88319-11-29 12:29 G 33979243.87 33979244.02 33979244.18 0.1936 0.0603

Neptune 88320-01-08 06:44 G 33979283.67 33979283.78 33979283.88 0.0088 0.0055

Neptune 88320-04-05 07:56 G 33979371.74 33979371.83 33979371.93 0.0088 0.0062

Neptune 88320-07-02 09:22 G 33979459.82 33979459.89 33979459.98 0.0088 0.0070

Neptune 88320-09-28 11:03 G 33979547.89 33979547.96 33979548.02 0.0088 0.0077

Neptune 88320-12-25 12:15 G 33979635.98 33979636.01 33979636.05 0.0088 0.0085

Venus 88322-08-29 14:24 G 33980248.05 33980248.10 33980248.16 0.3623 0.3014

Jupiter 88322-10-21 21:51 G 33980301.35 33980301.41 33980301.48 0.0515 0.0475

Mars 88324-08-01 21:36 G 33980951.38 33980951.40 33980951.43 0.1591 0.1527

Mars 88326-07-07 22:48 G 33981656.33 33981656.45 33981656.57 0.1596 0.0156

Saturn 88326-12-31 20:39 G 33981833.26 33981833.36 33981833.46 0.0264 0.0166

Saturn 88327-03-30 06:44 G 33981921.65 33981921.78 33981921.91 0.0263 0.0061

Saturn 88327-06-26 16:48 G 33982010.07 33982010.20 33982010.33 0.0263 0.0045

Saturn 88327-09-23 02:53 G 33982098.52 33982098.62 33982098.74 0.0262 0.0151

Earth 88327-09-24 07:12 G 33982099.69 33982099.80 33982099.91 0.2627 0.0568

Moon 88327-09-24 07:56 G 33982099.72 33982099.83 33982099.95 0.2626 0.0534 *

Saturn 88327-12-20 13:12 G 33982187.03 33982187.05 33982187.08 0.0262 0.0257

Venus 88328-03-14 05:32 G 33982271.63 33982271.73 33982271.83 0.3623 0.0895

Jupiter 88328-03-14 18:29 G 33982272.18 33982272.27 33982272.36 0.0513 0.0377

Jupiter 88328-06-11 23:32 G 33982361.38 33982361.48 33982361.59 0.0511 0.0304

Mars 88328-06-12 01:12 G 33982361.48 33982361.55 33982361.62 0.1604 0.1295 *

Mars 88329-04-20 05:03 G 33982673.56 33982673.71 33982673.87 0.1939 0.0638

Venus 88333-09-27 20:39 G 33984295.26 33984295.36 33984295.46 0.3623 0.1245

Jupiter 88334-08-09 18:15 G 33984611.10 33984611.26 33984611.43 0.0515 0.0217

Mars 88335-11-28 10:34 G 33985086.83 33985086.94 33985087.05 0.1595 0.0495

Mars 88337-11-02 12:29 G 33985791.92 33985792.02 33985792.11 0.1602 0.0932

Earth 88338-03-25 06:15 G 33985934.69 33985934.76 33985934.83 0.2705 0.2360

Moon 88338-03-25 06:58 G 33985934.71 33985934.79 33985934.88 0.2699 0.2182 *

Mars 88338-09-09 21:36 G 33986103.37 33986103.40 33986103.43 0.1942 0.1896

Venus 88339-04-13 11:46 G 33986318.96 33986318.99 33986319.02 0.3622 0.3417

Jupiter 88340-03-31 04:05 G 33986671.54 33986671.67 33986671.79 0.0512 0.0136

Earth 88340-09-26 01:41 G 33986850.46 33986850.57 33986850.67 0.2627 0.0803

Moon 88340-09-26 01:56 G 33986850.47 33986850.58 33986850.69 0.2621 0.0908 *

Saturn 88342-07-21 22:34 G 33987514.32 33987514.44 33987514.57 0.0298 0.0214

Saturn 88342-10-18 23:46 G 33987603.31 33987603.49 33987603.67 0.0299 0.0004

Saturn 88343-01-16 00:29 G 33987692.40 33987692.52 33987692.65 0.0299 0.0215

Mars 88345-04-19 22:05 G 33988517.32 33988517.42 33988517.52 0.1593 0.0835

Jupiter 88346-05-28 15:08 G 33988920.95 33988921.13 33988921.31 0.0514 0.0034

Mars 88347-03-25 23:46 G 33989222.38 33989222.49 33989222.60 0.1600 0.0579

Mars 88350-01-07 20:24 G 33990241.31 33990241.35 33990241.38 0.1933 0.1874

Moon 88351-03-28 10:34 G 33990685.79 33990685.94 33990686.09 0.2699 0.0165

Earth 88351-03-28 11:03 G 33990685.82 33990685.96 33990686.11 0.2706 0.0322 *

Jupiter 88352-01-18 08:24 G 33990981.72 33990981.85 33990981.98 0.0512 0.0033

Moon 88353-09-28 19:41 G 33991601.25 33991601.32 33991601.39 0.2620 0.2087

Earth 88353-09-28 19:56 G 33991601.27 33991601.33 33991601.39 0.2626 0.2181 *

Venus 88354-05-07 04:20 G 33991821.57 33991821.68 33991821.79 0.3750 0.2699

Mars 88354-09-10 09:51 G 33991947.84 33991947.91 33991947.99 0.1592 0.1166

Saturn 88356-05-19 23:46 G 33992565.40 33992565.49 33992565.58 0.0264 0.0195

Mars 88356-08-15 11:17 G 33992652.85 33992652.97 33992653.09 0.1598 0.0227

Saturn 88356-08-16 09:36 G 33992653.78 33992653.90 33992654.03 0.0264 0.0091

Saturn 88356-11-12 19:41 G 33992742.19 33992742.32 33992742.46 0.0263 0.0018

Saturn 88357-02-09 06:00 G 33992830.63 33992830.75 33992830.87 0.0263 0.0122

Saturn 88357-05-08 16:05 G 33992919.11 33992919.17 33992919.24 0.0262 0.0228

Jupiter 88358-03-16 11:46 G 33993230.84 33993230.99 33993231.14 0.0514 0.0286

Uranus 88358-10-15 20:53 G 33993444.36 33993444.37 33993444.40 0.0144 0.0142

Uranus 88359-01-12 00:29 G 33993532.46 33993532.52 33993532.61 0.0144 0.0120

Uranus 88359-04-10 04:34 G 33993620.59 33993620.69 33993620.79 0.0144 0.0097

Mars 88359-05-30 13:27 G 33993670.90 33993671.06 33993671.21 0.1936 0.0681

Uranus 88359-07-07 08:10 G 33993708.73 33993708.84 33993708.96 0.0144 0.0075

Uranus 88359-10-03 12:00 G 33993796.88 33993797.00 33993797.13 0.0144 0.0052

Uranus 88359-12-30 15:51 G 33993885.03 33993885.16 33993885.29 0.0144 0.0030

Uranus 88360-03-27 19:41 G 33993973.18 33993973.32 33993973.45 0.0144 0.0007

Uranus 88360-06-23 23:32 G 33994061.34 33994061.48 33994061.61 0.0144 0.0016

Uranus 88360-09-20 03:22 G 33994149.51 33994149.64 33994149.77 0.0144 0.0039

Earth 88360-09-21 18:00 G 33994151.16 33994151.25 33994151.34 0.2628 0.1637

Moon 88360-09-21 18:44 G 33994151.19 33994151.28 33994151.37 0.2630 0.1557 *

Uranus 88360-12-17 07:12 G 33994237.68 33994237.80 33994237.92 0.0144 0.0062

Uranus 88361-03-15 11:03 G 33994325.85 33994325.96 33994326.07 0.0144 0.0086

Uranus 88361-06-11 14:53 G 33994414.04 33994414.12 33994414.22 0.0144 0.0109

Uranus 88361-09-07 18:58 G 33994502.24 33994502.29 33994502.34 0.0144 0.0132

Jupiter 88363-11-06 12:44 G 33995291.91 33995292.03 33995292.15 0.0512 0.0201

Mars 88364-01-31 21:36 G 33995378.37 33995378.40 33995378.44 0.1591 0.1496

Jupiter 88364-02-03 18:00 G 33995381.21 33995381.25 33995381.29 0.0510 0.0478

Mars 88366-01-05 22:48 G 33996083.33 33996083.45 33996083.57 0.1596 0.0125

Mars 88367-12-12 01:12 G 33996788.48 33996788.55 33996788.61 0.1604 0.1327

Mars 88368-10-19 06:15 G 33997100.60 33997100.76 33997100.91 0.1939 0.0554

Jupiter 88370-04-02 18:44 G 33997631.21 33997631.28 33997631.36 0.0516 0.0463

Saturn 88371-12-08 21:51 G 33998246.34 33998246.41 33998246.50 0.0298 0.0265

Saturn 88372-03-06 23:17 G 33998335.30 33998335.47 33998335.66 0.0299 0.0049

Saturn 88372-06-04 00:15 G 33998424.37 33998424.51 33998424.66 0.0299 0.0166

Earth 88373-09-24 12:15 G 33998901.89 33998902.01 33998902.12 0.2627 0.0304

Moon 88373-09-24 12:44 G 33998901.92 33998902.03 33998902.15 0.2624 0.0181 *

Mars 88375-05-29 10:34 G 33999513.82 33999513.94 33999514.05 0.1595 0.0468

Jupiter 88375-08-25 16:34 G 33999602.11 33999602.19 33999602.27 0.0513 0.0383

Jupiter 88375-11-22 21:36 G 33999691.30 33999691.40 33999691.51 0.0511 0.0296

Mars 88377-05-03 12:29 G 34000218.92 34000219.02 34000219.11 0.1602 0.0966

Mars 88378-03-10 22:05 G 34000530.37 34000530.42 34000530.47 0.1941 0.1833

Venus 88379-04-05 11:46 G 34000920.91 34000920.99 34000921.07 0.3623 0.2226

Jupiter 88382-01-19 16:05 G 34001941.01 34001941.17 34001941.33 0.0515 0.0218

Earth 88384-03-25 12:44 G 34002736.92 34002737.03 34002737.13 0.2705 0.1855

Moon 88384-03-25 13:12 G 34002736.94 34002737.05 34002737.16 0.2699 0.1821 *

Mars 88384-10-18 22:05 G 34002944.32 34002944.42 34002944.52 0.1593 0.0804

Venus 88384-10-19 02:53 G 34002944.51 34002944.62 34002944.72 0.3623 0.0143 *

Saturn 88385-10-07 03:22 G 34003297.57 34003297.64 34003297.72 0.0264 0.0216

Saturn 88386-01-03 13:27 G 34003385.94 34003386.06 34003386.18 0.0264 0.0111

Saturn 88386-04-01 23:32 G 34003474.35 34003474.48 34003474.62 0.0263 0.0006

Saturn 88386-06-29 09:36 G 34003562.78 34003562.90 34003563.03 0.0263 0.0101

Mars 88386-09-23 23:46 G 34003649.38 34003649.49 34003649.60 0.1600 0.0607

Saturn 88386-09-25 19:56 G 34003651.25 34003651.33 34003651.41 0.0262 0.0207

Earth 88386-09-27 06:29 G 34003652.66 34003652.77 34003652.87 0.2627 0.1069

Moon 88386-09-27 06:44 G 34003652.68 34003652.78 34003652.89 0.2621 0.1043 *

Jupiter 88387-09-11 01:56 G 34004001.45 34004001.58 34004001.71 0.0512 0.0124

Mars 88389-07-08 20:39 G 34004668.36 34004668.36 34004668.37 0.1933 0.1931

Venus 88390-05-04 18:00 G 34004968.16 34004968.25 34004968.33 0.3622 0.2045

Moon 88393-09-20 05:17 G 34006202.70 34006202.72 34006202.73 0.2633 0.2594

Jupiter 88393-11-07 12:29 G 34006250.84 34006251.02 34006251.20 0.0514 0.0042

Mars 88394-03-11 09:51 G 34006374.83 34006374.91 34006374.99 0.1592 0.1135

Mars 88396-02-14 11:17 G 34007079.85 34007079.97 34007080.09 0.1598 0.0256

Moon 88397-03-28 16:48 G 34007488.05 34007488.20 34007488.34 0.2699 0.0799

Earth 88397-03-28 17:17 G 34007488.08 34007488.22 34007488.36 0.2706 0.0799 *

Neptune 88398-09-02 14:53 G 34008011.11 34008011.12 34008011.16 0.0090 0.0089

Mars 88398-11-28 14:10 G 34008097.94 34008098.09 34008098.24 0.1937 0.0754

Neptune 88398-11-29 18:29 G 34008099.19 34008099.27 34008099.37 0.0090 0.0078

Neptune 88399-02-25 22:05 G 34008187.30 34008187.42 34008187.54 0.0090 0.0067

Neptune 88399-05-25 01:12 G 34008275.42 34008275.55 34008275.71 0.0090 0.0057

Jupiter 88399-06-30 06:29 G 34008311.64 34008311.77 34008311.90 0.0512 0.0044

Neptune 88399-08-21 04:34 G 34008363.54 34008363.69 34008363.86 0.0090 0.0046

Moon 88399-09-30 00:29 G 34008403.48 34008403.52 34008403.56 0.2621 0.2461

Earth 88399-09-30 00:58 G 34008403.50 34008403.54 34008403.58 0.2626 0.2459 *

Neptune 88399-11-17 08:10 G 34008451.67 34008451.84 34008452.02 0.0090 0.0035

Neptune 88400-02-13 11:32 G 34008539.80 34008539.98 34008540.16 0.0090 0.0025

Neptune 88400-05-11 14:53 G 34008627.94 34008628.12 34008628.31 0.0090 0.0014

Uranus 88400-08-05 03:36 G 34008713.61 34008713.65 34008713.70 0.0134 0.0130

Neptune 88400-08-07 18:15 G 34008716.08 34008716.26 34008716.45 0.0090 0.0004

Uranus 88400-11-01 10:34 G 34008801.82 34008801.94 34008802.06 0.0134 0.0104

Neptune 88400-11-03 21:36 G 34008804.22 34008804.40 34008804.59 0.0090 0.0007

Uranus 88401-01-28 17:03 G 34008890.07 34008890.21 34008890.38 0.0134 0.0078

Neptune 88401-01-31 00:58 G 34008892.36 34008892.54 34008892.72 0.0090 0.0018

Uranus 88401-04-27 00:00 G 34008978.33 34008978.50 34008978.68 0.0134 0.0052

Neptune 88401-04-29 04:05 G 34008980.50 34008980.67 34008980.85 0.0090 0.0029

Uranus 88401-07-24 06:58 G 34009066.60 34009066.79 34009066.97 0.0134 0.0026

Saturn 88401-07-24 23:03 G 34009067.29 34009067.46 34009067.63 0.0299 0.0099

Neptune 88401-07-26 07:27 G 34009068.65 34009068.81 34009068.98 0.0090 0.0039

Uranus 88401-10-20 13:41 G 34009154.88 34009155.07 34009155.25 0.0134 0.0003

Saturn 88401-10-22 00:00 G 34009156.34 34009156.50 34009156.67 0.0299 0.0117

Neptune 88401-10-22 10:48 G 34009156.80 34009156.95 34009157.11 0.0090 0.0049

Uranus 88402-01-16 20:10 G 34009243.16 34009243.34 34009243.53 0.0134 0.0025

Neptune 88402-01-18 13:41 G 34009244.95 34009245.07 34009245.23 0.0090 0.0060

Uranus 88402-04-15 02:39 G 34009331.45 34009331.61 34009331.79 0.0134 0.0050

Neptune 88402-04-16 17:17 G 34009333.11 34009333.22 34009333.34 0.0090 0.0070

Uranus 88402-07-12 09:08 G 34009419.74 34009419.88 34009420.05 0.0134 0.0075

Neptune 88402-07-13 20:39 G 34009421.28 34009421.36 34009421.44 0.0090 0.0080

Uranus 88402-10-08 15:36 G 34009508.04 34009508.15 34009508.29 0.0134 0.0100

Uranus 88403-01-04 22:20 G 34009596.37 34009596.43 34009596.50 0.0134 0.0124

Mars 88403-08-01 21:36 G 34009805.36 34009805.40 34009805.44 0.1591 0.1465

Mars 88405-07-06 22:48 G 34010510.33 34010510.45 34010510.57 0.1596 0.0092

Jupiter 88405-08-26 09:08 G 34010560.73 34010560.88 34010561.03 0.0513 0.0293

Earth 88406-09-22 22:48 G 34010953.36 34010953.45 34010953.55 0.2628 0.1371

Moon 88406-09-22 23:32 G 34010953.38 34010953.48 34010953.58 0.2630 0.1273 *

Mars 88407-06-12 01:12 G 34011215.49 34011215.55 34011215.61 0.1604 0.1360

Mars 88408-04-19 06:58 G 34011527.63 34011527.79 34011527.95 0.1939 0.0470

Venus 88410-12-12 06:44 G 34012494.62 34012494.78 34012494.93 0.3750 0.0084

Jupiter 88411-04-18 11:03 G 34012621.84 34012621.96 34012622.08 0.0513 0.0206

Jupiter 88411-07-16 16:05 G 34012711.13 34012711.17 34012711.22 0.0510 0.0475

Mars 88414-11-27 10:20 G 34013940.82 34013940.93 34013941.05 0.1595 0.0436

Saturn 88415-02-24 06:15 G 34014029.72 34014029.76 34014029.81 0.0264 0.0246

Saturn 88415-05-23 16:20 G 34014118.07 34014118.18 34014118.30 0.0264 0.0140

Saturn 88415-08-20 02:24 G 34014206.47 34014206.60 34014206.73 0.0263 0.0035

Saturn 88415-11-16 12:29 G 34014294.89 34014295.02 34014295.15 0.0263 0.0071

Saturn 88416-02-12 22:34 G 34014383.35 34014383.44 34014383.54 0.0262 0.0177

Mars 88416-11-01 12:29 G 34014645.92 34014646.02 34014646.11 0.1602 0.0997

Mars 88417-09-08 23:03 G 34014957.39 34014957.46 34014957.53 0.1942 0.1749

Jupiter 88417-09-12 15:51 G 34014961.08 34014961.16 34014961.25 0.0516 0.0449

Earth 88419-09-25 17:03 G 34015704.10 34015704.21 34015704.32 0.2627 0.0027

Moon 88419-09-25 17:32 G 34015704.12 34015704.23 34015704.35 0.2623 0.0110 *

Jupiter 88423-02-04 15:22 G 34016932.06 34016932.14 34016932.23 0.0513 0.0374

Jupiter 88423-05-04 20:24 G 34017021.25 34017021.35 34017021.46 0.0511 0.0305

Mars 88424-04-18 22:05 G 34017371.32 34017371.42 34017371.52 0.1593 0.0771

Mars 88426-03-24 23:46 G 34018076.38 34018076.49 34018076.60 0.1600 0.0640

Jupiter 88429-07-01 13:12 G 34019270.89 34019271.05 34019271.22 0.0515 0.0207

Earth 88430-03-26 18:58 G 34019539.16 34019539.29 34019539.42 0.2705 0.1349

Moon 88430-03-26 19:12 G 34019539.17 34019539.30 34019539.43 0.2698 0.1326 *

Venus 88430-04-26 18:00 G 34019570.23 34019570.25 34019570.27 0.3623 0.3553

Saturn 88430-12-11 21:36 G 34019799.25 34019799.40 34019799.56 0.0298 0.0156

Saturn 88431-03-10 23:03 G 34019888.28 34019888.46 34019888.64 0.0299 0.0061

Saturn 88431-06-07 23:46 G 34019977.42 34019977.49 34019977.56 0.0300 0.0274

Earth 88432-09-27 11:17 G 34020454.87 34020454.97 34020455.07 0.2627 0.1344

Moon 88432-09-27 11:32 G 34020454.88 34020454.98 34020455.08 0.2621 0.1414 *

Mars 88433-09-09 09:51 G 34020801.83 34020801.91 34020801.99 0.1592 0.1106

Jupiter 88435-02-21 00:15 G 34021331.38 34021331.51 34021331.63 0.0512 0.0120

Mars 88435-08-15 11:17 G 34021506.85 34021506.97 34021507.09 0.1598 0.0290

Venus 88435-11-10 09:08 G 34021593.78 34021593.88 34021593.97 0.3623 0.1446

Mars 88438-05-29 14:53 G 34022524.98 34022525.12 34022525.27 0.1936 0.0831

Earth 88439-09-21 09:36 G 34023004.86 34023004.90 34023004.94 0.2629 0.2425

Moon 88439-09-21 10:05 G 34023004.88 34023004.92 34023004.97 0.2633 0.2414 *

Jupiter 88441-04-19 10:34 G 34023580.76 34023580.94 34023581.12 0.0514 0.0036

Venus 88441-05-26 00:00 G 34023617.40 34023617.50 34023617.61 0.3623 0.0701

Uranus 88442-11-05 04:05 G 34024145.64 34024145.67 34024145.72 0.0144 0.0137

Mars 88443-01-30 21:36 G 34024232.35 34024232.40 34024232.45 0.1591 0.1435

Uranus 88443-02-01 07:56 G 34024233.75 34024233.83 34024233.91 0.0144 0.0114

Moon 88443-03-29 23:03 G 34024290.32 34024290.46 34024290.59 0.2699 0.1132

Earth 88443-03-29 23:46 G 34024290.36 34024290.49 34024290.61 0.2706 0.1290 *

Uranus 88443-04-30 11:32 G 34024321.88 34024321.98 34024322.09 0.0144 0.0092

Uranus 88443-07-27 15:22 G 34024410.03 34024410.14 34024410.26 0.0144 0.0070

Uranus 88443-10-23 19:12 G 34024498.17 34024498.30 34024498.43 0.0144 0.0047

Uranus 88444-01-19 23:03 G 34024586.32 34024586.46 34024586.59 0.0144 0.0025

Uranus 88444-04-17 02:53 G 34024674.48 34024674.62 34024674.75 0.0144 0.0004

Uranus 88444-07-14 06:29 G 34024762.64 34024762.77 34024762.91 0.0144 0.0022

Saturn 88444-10-09 19:56 G 34024850.23 34024850.33 34024850.44 0.0264 0.0163

Uranus 88444-10-10 10:34 G 34024850.81 34024850.94 34024851.07 0.0144 0.0045

Mars 88445-01-04 22:48 G 34024937.33 34024937.45 34024937.57 0.1596 0.0073

Saturn 88445-01-06 06:00 G 34024938.62 34024938.75 34024938.88 0.0263 0.0057

Uranus 88445-01-06 14:10 G 34024938.98 34024939.09 34024939.22 0.0144 0.0068

Saturn 88445-04-04 16:05 G 34025027.04 34025027.17 34025027.30 0.0263 0.0049

Uranus 88445-04-04 18:00 G 34025027.16 34025027.25 34025027.37 0.0144 0.0092 *

Uranus 88445-07-01 22:05 G 34025115.34 34025115.42 34025115.51 0.0144 0.0114

Saturn 88445-07-02 02:24 G 34025115.49 34025115.60 34025115.70 0.0262 0.0155 *

Uranus 88445-09-28 01:56 G 34025203.55 34025203.58 34025203.63 0.0144 0.0138

Saturn 88445-09-28 12:29 G 34025204.01 34025204.02 34025204.03 0.0262 0.0261

Moon 88445-09-30 05:17 G 34025205.72 34025205.72 34025205.74 0.2620 0.2603

Venus 88446-12-09 15:22 G 34025641.08 34025641.14 34025641.20 0.3622 0.2842

Jupiter 88446-12-10 04:34 G 34025641.56 34025641.69 34025641.82 0.0512 0.0053

Mars 88446-12-11 01:12 G 34025642.49 34025642.55 34025642.60 0.1604 0.1390

Mars 88447-10-19 07:27 G 34025954.65 34025954.81 34025954.97 0.1939 0.0411

Earth 88452-09-23 03:51 G 34027755.55 34027755.66 34027755.76 0.2628 0.1102

Moon 88452-09-23 04:34 G 34027755.58 34027755.69 34027755.79 0.2628 0.0986 *

Jupiter 88453-02-05 06:44 G 34027890.64 34027890.78 34027890.93 0.0513 0.0295

Mars 88454-05-28 10:20 G 34028367.82 34028367.93 34028368.05 0.1595 0.0403

Pluto 88455-07-12 20:10 G 34028778.27 34028778.34 34028778.45 0.0061 0.0053

Pluto 88455-10-08 21:08 G 34028866.27 34028866.38 34028866.53 0.0061 0.0043

Pluto 88456-01-04 22:34 G 34028954.29 34028954.44 34028954.60 0.0062 0.0032

Pluto 88456-04-01 23:32 G 34029042.32 34029042.48 34029042.65 0.0062 0.0022

Mars 88456-05-02 12:15 G 34029072.92 34029073.01 34029073.10 0.1602 0.1025

Pluto 88456-06-29 00:44 G 34029130.36 34029130.53 34029130.71 0.0062 0.0011

Pluto 88456-09-25 01:41 G 34029218.40 34029218.57 34029218.75 0.0062 0.0002

Pluto 88456-12-22 02:53 G 34029306.45 34029306.62 34029306.79 0.0062 0.0010

Mars 88457-03-10 00:00 G 34029384.42 34029384.50 34029384.59 0.1942 0.1661

Pluto 88457-03-20 03:36 G 34029394.50 34029394.65 34029394.83 0.0062 0.0021

Pluto 88457-06-16 04:48 G 34029482.56 34029482.70 34029482.86 0.0062 0.0031

Pluto 88457-09-12 05:46 G 34029570.62 34029570.74 34029570.88 0.0062 0.0042

Pluto 88457-12-09 06:58 G 34029658.71 34029658.79 34029658.89 0.0062 0.0053

Jupiter 88458-09-28 08:53 G 34029951.76 34029951.87 34029951.99 0.0513 0.0217

Jupiter 88458-12-26 14:10 G 34030041.04 34030041.09 34030041.15 0.0511 0.0466

Saturn 88460-04-29 20:53 G 34030531.24 34030531.37 34030531.49 0.0298 0.0211

Saturn 88460-07-27 22:05 G 34030620.24 34030620.42 34030620.60 0.0299 0.0006

Saturn 88460-10-24 22:48 G 34030709.33 34030709.45 34030709.58 0.0300 0.0220

Mars 88463-10-18 22:05 G 34031798.32 34031798.42 34031798.52 0.1593 0.0740

Jupiter 88465-02-22 13:41 G 34032290.98 34032291.07 34032291.16 0.0515 0.0447

Mars 88465-09-22 23:46 G 34032503.38 34032503.49 34032503.60 0.1600 0.0673

Earth 88465-09-25 21:51 G 34032506.30 34032506.41 34032506.53 0.2627 0.0268

Moon 88465-09-25 22:34 G 34032506.32 34032506.44 34032506.55 0.2622 0.0336 *

Venus 88467-07-19 09:08 G 34033167.78 34033167.88 34033167.98 0.3750 0.2834

Jupiter 88470-07-17 13:41 G 34034261.98 34034262.07 34034262.16 0.0513 0.0378

Jupiter 88470-10-14 18:44 G 34034351.18 34034351.28 34034351.39 0.0511 0.0302

Mars 88473-03-10 09:51 G 34035228.82 34035228.91 34035228.99 0.1592 0.1074

Saturn 88474-02-26 22:48 G 34035582.36 34035582.45 34035582.54 0.0264 0.0193

Saturn 88474-05-26 08:53 G 34035670.74 34035670.87 34035671.00 0.0263 0.0088

Saturn 88474-08-22 18:58 G 34035759.15 34035759.29 34035759.42 0.0263 0.0018

Saturn 88474-11-19 05:03 G 34035847.59 34035847.71 34035847.83 0.0262 0.0123

Mars 88475-02-13 11:17 G 34035933.85 34035933.97 34035934.08 0.1598 0.0320

Saturn 88475-02-15 15:08 G 34035936.07 34035936.13 34035936.20 0.0262 0.0229

Moon 88476-03-27 01:12 G 34036341.41 34036341.55 34036341.70 0.2698 0.0824

Earth 88476-03-27 01:27 G 34036341.41 34036341.56 34036341.70 0.2705 0.0856 *

Jupiter 88476-12-11 10:34 G 34036600.77 34036600.94 34036601.10 0.0515 0.0198

Mars 88477-11-27 15:36 G 34036952.01 34036952.15 34036952.30 0.1936 0.0900

Moon 88478-09-28 16:20 G 34037257.09 34037257.18 34037257.27 0.2620 0.1579

Earth 88478-09-28 16:20 G 34037257.09 34037257.18 34037257.27 0.2627 0.1620 *

Neptune 88479-12-09 01:56 G 34037693.58 34037693.58 34037693.59 0.0088 0.0088

Neptune 88480-03-06 03:08 G 34037781.59 34037781.63 34037781.69 0.0088 0.0081

Neptune 88480-06-02 04:34 G 34037869.63 34037869.69 34037869.77 0.0088 0.0074

Neptune 88480-08-29 05:46 G 34037957.67 34037957.74 34037957.84 0.0088 0.0067

Neptune 88480-11-25 07:12 G 34038045.71 34038045.80 34038045.91 0.0088 0.0060

Neptune 88481-02-21 08:53 G 34038133.76 34038133.87 34038133.98 0.0088 0.0052

Neptune 88481-05-20 10:05 G 34038221.81 34038221.92 34038222.04 0.0088 0.0045

Neptune 88481-08-16 11:32 G 34038309.86 34038309.98 34038310.11 0.0088 0.0038

Neptune 88481-11-12 12:58 G 34038397.91 34038398.04 34038398.17 0.0088 0.0031

Neptune 88482-02-08 14:10 G 34038485.97 34038486.09 34038486.23 0.0088 0.0024

Neptune 88482-05-07 15:36 G 34038574.02 34038574.15 34038574.29 0.0088 0.0016

Mars 88482-07-31 21:36 G 34038659.35 34038659.40 34038659.45 0.1591 0.1404

Jupiter 88482-08-02 23:17 G 34038661.34 34038661.47 34038661.59 0.0511 0.0134

Neptune 88482-08-03 17:03 G 34038662.08 34038662.21 34038662.35 0.0088 0.0009

Neptune 88482-10-30 18:29 G 34038750.13 34038750.27 34038750.41 0.0088 0.0002

Neptune 88483-01-26 19:56 G 34038838.19 34038838.33 34038838.47 0.0088 0.0006

Neptune 88483-04-24 21:22 G 34038926.25 34038926.39 34038926.52 0.0088 0.0013

Neptune 88483-07-21 22:34 G 34039014.31 34039014.44 34039014.58 0.0088 0.0020

Neptune 88483-10-18 00:00 G 34039102.37 34039102.50 34039102.63 0.0088 0.0028

Neptune 88484-01-14 01:27 G 34039190.44 34039190.56 34039190.69 0.0088 0.0035

Neptune 88484-04-11 02:39 G 34039278.50 34039278.61 34039278.74 0.0088 0.0043

Mars 88484-07-05 22:48 G 34039364.33 34039364.45 34039364.57 0.1596 0.0027

Neptune 88484-07-08 04:05 G 34039366.57 34039366.67 34039366.79 0.0088 0.0050

Uranus 88484-08-25 11:46 G 34039414.91 34039414.99 34039415.09 0.0134 0.0118

Neptune 88484-10-04 05:46 G 34039454.64 34039454.74 34039454.84 0.0088 0.0057

Uranus 88484-11-21 18:44 G 34039503.15 34039503.28 34039503.42 0.0134 0.0092

Neptune 88484-12-31 06:58 G 34039542.71 34039542.79 34039542.89 0.0088 0.0064

Uranus 88485-02-18 01:41 G 34039591.41 34039591.57 34039591.73 0.0134 0.0066

Neptune 88485-03-29 08:24 G 34039630.78 34039630.85 34039630.94 0.0088 0.0072

Uranus 88485-05-17 08:10 G 34039679.67 34039679.84 34039680.03 0.0134 0.0041

Neptune 88485-06-25 10:05 G 34039718.86 34039718.92 34039718.98 0.0088 0.0079

Uranus 88485-08-13 15:08 G 34039767.95 34039768.13 34039768.32 0.0134 0.0015

Neptune 88485-09-21 11:17 G 34039806.96 34039806.97 34039807.00 0.0088 0.0086

Earth 88485-09-21 14:24 G 34039807.04 34039807.10 34039807.17 0.2628 0.2168

Moon 88485-09-21 15:08 G 34039807.06 34039807.13 34039807.20 0.2633 0.2029 *

Uranus 88485-11-09 21:51 G 34039856.23 34039856.41 34039856.60 0.0134 0.0010

Uranus 88486-02-06 04:20 G 34039944.51 34039944.68 34039944.87 0.0134 0.0036

Uranus 88486-05-05 11:03 G 34040032.80 34040032.96 34040033.13 0.0134 0.0061

Mars 88486-06-11 01:12 G 34040069.49 34040069.55 34040069.60 0.1604 0.1423

Uranus 88486-08-01 17:32 G 34040121.10 34040121.23 34040121.38 0.0134 0.0086

Uranus 88486-10-29 00:00 G 34040209.41 34040209.50 34040209.61 0.0134 0.0111

Venus 88486-12-01 15:22 G 34040243.07 34040243.14 34040243.20 0.3623 0.2774

Mars 88487-04-19 08:39 G 34040381.70 34040381.86 34040382.02 0.1939 0.0319

Jupiter 88488-09-29 07:56 G 34040910.65 34040910.83 34040911.01 0.0514 0.0042

Moon 88489-03-30 05:03 G 34041092.59 34041092.71 34041092.83 0.2701 0.1688

Earth 88489-03-30 06:00 G 34041092.64 34041092.75 34041092.86 0.2706 0.1772 *

Saturn 88489-09-16 18:15 G 34041263.20 34041263.26 34041263.33 0.0298 0.0276

Saturn 88489-12-14 19:41 G 34041352.15 34041352.32 34041352.50 0.0299 0.0060

Saturn 88490-03-13 20:53 G 34041441.22 34041441.37 34041441.52 0.0299 0.0156

Venus 88492-06-16 06:15 G 34042266.66 34042266.76 34042266.86 0.3623 0.0677

Mars 88493-11-26 10:20 G 34042794.82 34042794.93 34042795.05 0.1594 0.0372

Jupiter 88494-05-22 02:53 G 34042971.49 34042971.62 34042971.75 0.0512 0.0051

Mars 88495-11-01 12:29 G 34043499.93 34043500.02 34043500.10 0.1602 0.1062

Mars 88496-09-08 00:29 G 34043811.43 34043811.52 34043811.61 0.1942 0.1596

Venus 88497-12-30 21:22 G 34044290.30 34044290.39 34044290.49 0.3622 0.1476

Earth 88498-09-24 08:39 G 34044557.75 34044557.86 34044557.97 0.2628 0.0834

Moon 88498-09-24 09:22 G 34044557.78 34044557.89 34044558.00 0.2626 0.0783 *

Jupiter 88500-07-19 05:17 G 34045220.57 34045220.72 34045220.87 0.0513 0.0282

Mars 88503-04-19 22:05 G 34046225.31 34046225.42 34046225.52 0.1593 0.0712

Saturn 88503-07-18 02:24 G 34046314.52 34046314.60 34046314.67 0.0264 0.0217

Saturn 88503-10-14 12:15 G 34046402.89 34046403.01 34046403.13 0.0263 0.0112

Saturn 88504-01-10 22:20 G 34046491.30 34046491.43 34046491.56 0.0263 0.0007

Saturn 88504-04-08 08:24 G 34046579.73 34046579.85 34046579.98 0.0262 0.0099

Saturn 88504-07-05 18:29 G 34046668.19 34046668.27 34046668.36 0.0262 0.0205

Mars 88505-03-24 23:46 G 34046930.38 34046930.49 34046930.59 0.1600 0.0701

Jupiter 88506-03-11 07:12 G 34047281.68 34047281.80 34047281.92 0.0513 0.0221

Jupiter 88506-06-08 12:29 G 34047370.96 34047371.02 34047371.07 0.0511 0.0460

Earth 88511-09-28 02:53 G 34049308.51 34049308.62 34049308.73 0.2627 0.0523

Moon 88511-09-28 03:22 G 34049308.53 34049308.64 34049308.75 0.2622 0.0595 *

Jupiter 88512-08-05 11:46 G 34049620.91 34049620.99 34049621.08 0.0515 0.0455

Mars 88512-09-09 09:51 G 34049655.82 34049655.91 34049655.99 0.1592 0.1044

Mars 88514-08-15 11:17 G 34050360.85 34050360.97 34050361.08 0.1598 0.0352

Mars 88517-05-29 16:34 G 34051379.05 34051379.19 34051379.34 0.1937 0.0983

Jupiter 88517-12-28 11:46 G 34051591.91 34051591.99 34051592.07 0.0514 0.0386

Jupiter 88518-03-27 17:03 G 34051681.10 34051681.21 34051681.31 0.0511 0.0296

Venus 88518-08-10 00:44 G 34051816.44 34051816.53 34051816.62 0.3750 0.3020

Saturn 88519-05-04 18:29 G 34052084.10 34052084.27 34052084.44 0.0299 0.0118

Saturn 88519-08-01 19:41 G 34052173.15 34052173.32 34052173.49 0.0300 0.0098

Mars 88522-01-30 21:36 G 34053086.34 34053086.40 34053086.45 0.1591 0.1374

Moon 88522-03-29 07:27 G 34053143.67 34053143.81 34053143.96 0.2698 0.0434

Earth 88522-03-29 07:41 G 34053143.67 34053143.82 34053143.97 0.2705 0.0357 *

Mars 88524-01-05 22:48 G 34053791.33 34053791.45 34053791.57 0.1596 0.0040

Jupiter 88524-05-24 08:53 G 34053930.71 34053930.87 34053931.03 0.0514 0.0207

Moon 88524-09-29 21:08 G 34054059.30 34054059.38 34054059.46 0.2620 0.1890

Earth 88524-09-29 21:22 G 34054059.31 34054059.39 34054059.46 0.2627 0.1904 *

Mars 88525-12-11 01:12 G 34054496.50 34054496.55 34054496.59 0.1604 0.1456

Mars 88526-10-19 09:22 G 34054808.73 34054808.89 34054809.06 0.1939 0.0244

Uranus 88526-11-26 11:17 G 34054846.93 34054846.97 34054847.03 0.0144 0.0131

Uranus 88527-02-22 15:08 G 34054935.05 34054935.13 34054935.22 0.0144 0.0109

Uranus 88527-05-21 18:58 G 34055023.18 34055023.29 34055023.40 0.0144 0.0086

Uranus 88527-08-17 22:34 G 34055111.33 34055111.44 34055111.57 0.0144 0.0064

Uranus 88527-11-14 02:24 G 34055199.47 34055199.60 34055199.73 0.0144 0.0041

Uranus 88528-02-10 06:15 G 34055287.63 34055287.76 34055287.90 0.0144 0.0018

Uranus 88528-05-08 10:05 G 34055375.78 34055375.92 34055376.06 0.0144 0.0005

Uranus 88528-08-04 13:56 G 34055463.95 34055464.08 34055464.21 0.0144 0.0028

Uranus 88528-10-31 17:46 G 34055552.11 34055552.24 34055552.37 0.0144 0.0051

Uranus 88529-01-27 21:36 G 34055640.29 34055640.40 34055640.52 0.0144 0.0074

Uranus 88529-04-26 01:27 G 34055728.47 34055728.56 34055728.66 0.0144 0.0097

Uranus 88529-07-23 05:32 G 34055816.66 34055816.73 34055816.80 0.0144 0.0121

Uranus 88529-10-19 09:22 G 34055904.89 34055904.89 34055904.90 0.0144 0.0144

Jupiter 88530-01-13 21:36 G 34055991.28 34055991.40 34055991.53 0.0512 0.0134

Earth 88531-09-23 19:27 G 34056609.23 34056609.31 34056609.38 0.2628 0.1903

Moon 88531-09-23 19:56 G 34056609.26 34056609.33 34056609.41 0.2632 0.1892 *

Saturn 88532-12-04 04:48 G 34057046.67 34057046.70 34057046.75 0.0264 0.0249

Saturn 88533-03-02 14:53 G 34057135.01 34057135.12 34057135.23 0.0263 0.0144

Mars 88533-05-28 10:20 G 34057221.82 34057221.93 34057222.05 0.1595 0.0339

Saturn 88533-05-30 00:58 G 34057223.40 34057223.54 34057223.67 0.0263 0.0040

Saturn 88533-08-26 10:48 G 34057311.82 34057311.95 34057312.09 0.0262 0.0066

Saturn 88533-11-22 21:08 G 34057400.27 34057400.38 34057400.48 0.0262 0.0171

Moon 88535-04-01 11:03 G 34057894.87 34057894.96 34057895.05 0.2702 0.2120

Earth 88535-04-01 12:15 G 34057894.93 34057895.01 34057895.09 0.2706 0.2257 *

Mars 88535-05-03 12:15 G 34057926.93 34057927.01 34057927.10 0.1602 0.1093

Mars 88536-03-10 01:27 G 34058238.46 34058238.56 34058238.66 0.1942 0.1514

Jupiter 88536-03-12 05:46 G 34058240.56 34058240.74 34058240.92 0.0514 0.0045

Jupiter 88541-11-02 02:10 G 34060301.46 34060301.59 34060301.72 0.0512 0.0032

Mars 88542-10-18 22:05 G 34060652.31 34060652.42 34060652.52 0.1593 0.0678

Venus 88543-07-09 12:29 G 34060915.94 34060916.02 34060916.11 0.3623 0.2005

Mars 88544-09-22 23:46 G 34061357.38 34061357.49 34061357.59 0.1600 0.0736

Earth 88544-09-25 13:27 G 34061359.95 34061360.06 34061360.17 0.2628 0.0570

Moon 88544-09-25 14:10 G 34061359.98 34061360.09 34061360.21 0.2625 0.0413 *

Pluto 88547-08-18 11:03 G 34062416.94 34062416.96 34062417.00 0.0083 0.0081

Pluto 88547-11-14 12:15 G 34062504.93 34062505.01 34062505.12 0.0083 0.0061

Jupiter 88547-12-30 03:08 G 34062550.48 34062550.63 34062550.79 0.0513 0.0281

Pluto 88548-02-10 13:56 G 34062592.96 34062593.08 34062593.21 0.0082 0.0040

Pluto 88548-05-08 15:22 G 34062681.00 34062681.14 34062681.28 0.0082 0.0020

Pluto 88548-08-04 16:48 G 34062769.05 34062769.20 34062769.34 0.0082 0.0002

Saturn 88548-09-20 14:53 G 34062815.98 34062816.12 34062816.26 0.0298 0.0193

Pluto 88548-10-31 18:00 G 34062857.12 34062857.25 34062857.39 0.0082 0.0021

Saturn 88548-12-18 16:05 G 34062904.99 34062905.17 34062905.36 0.0299 0.0024

Venus 88549-01-22 03:36 G 34062939.55 34062939.65 34062939.75 0.3623 0.0122

Pluto 88549-01-27 19:27 G 34062945.19 34062945.31 34062945.44 0.0082 0.0041

Saturn 88549-03-17 17:03 G 34062994.11 34062994.21 34062994.32 0.0300 0.0238

Pluto 88549-04-25 20:39 G 34063033.27 34063033.36 34063033.46 0.0082 0.0061

Pluto 88549-07-22 22:05 G 34063121.41 34063121.42 34063121.44 0.0082 0.0081

Mars 88552-03-10 09:36 G 34064082.81 34064082.90 34064082.99 0.1592 0.1016

Jupiter 88553-08-21 05:46 G 34064611.63 34064611.74 34064611.86 0.0513 0.0217

Jupiter 88553-11-18 11:03 G 34064700.91 34064700.96 34064701.01 0.0511 0.0465

Mars 88554-02-13 11:17 G 34064787.85 34064787.97 34064788.08 0.1598 0.0384

Venus 88554-08-07 18:44 G 34064963.20 34064963.28 34064963.36 0.3622 0.2265

Earth 88555-03-27 09:08 G 34065194.83 34065194.88 34065194.92 0.2705 0.2553

Moon 88555-03-27 09:36 G 34065194.86 34065194.90 34065194.94 0.2698 0.2573 *

Mars 88556-11-27 17:17 G 34065806.08 34065806.22 34065806.36 0.1936 0.1047

Earth 88557-09-28 07:41 G 34066110.71 34066110.82 34066110.93 0.2627 0.0796

Moon 88557-09-28 08:10 G 34066110.73 34066110.84 34066110.95 0.2622 0.0820 *

Jupiter 88560-01-16 11:03 G 34066950.89 34066950.96 34066951.02 0.0515 0.0475

Mars 88561-07-31 21:36 G 34067513.33 34067513.40 34067513.46 0.1591 0.1344

Saturn 88562-07-20 18:00 G 34067867.15 34067867.25 34067867.35 0.0264 0.0172

Saturn 88562-10-17 04:05 G 34067955.54 34067955.67 34067955.80 0.0263 0.0067

Saturn 88563-01-13 13:56 G 34068043.95 34068044.08 34068044.22 0.0262 0.0040

Saturn 88563-04-12 00:00 G 34068132.39 34068132.50 34068132.62 0.0262 0.0144

Neptune 88563-05-31 11:46 G 34068181.97 34068181.99 34068182.05 0.0090 0.0088

Mars 88563-07-06 22:34 G 34068218.33 34068218.44 34068218.56 0.1596 0.0067

Saturn 88563-07-09 10:20 G 34068220.89 34068220.93 34068220.97 0.0262 0.0250

Neptune 88563-08-27 15:22 G 34068270.06 34068270.14 34068270.25 0.0090 0.0077

Neptune 88563-11-23 18:58 G 34068358.17 34068358.29 34068358.42 0.0090 0.0066

Neptune 88564-02-19 22:34 G 34068446.29 34068446.44 34068446.59 0.0090 0.0055

Neptune 88564-05-18 01:41 G 34068534.42 34068534.57 34068534.74 0.0090 0.0045

Neptune 88564-08-14 05:17 G 34068622.55 34068622.72 34068622.90 0.0090 0.0034

Neptune 88564-11-10 08:24 G 34068710.68 34068710.85 34068711.04 0.0090 0.0024

Neptune 88565-02-06 12:00 G 34068798.82 34068799.00 34068799.19 0.0090 0.0013

Neptune 88565-05-05 15:22 G 34068886.96 34068887.14 34068887.33 0.0090 0.0002

Jupiter 88565-06-09 10:20 G 34068921.84 34068921.93 34068922.01 0.0514 0.0386

Mars 88565-06-11 01:12 G 34068923.50 34068923.55 34068923.59 0.1604 0.1486

Neptune 88565-08-01 18:44 G 34068975.10 34068975.28 34068975.47 0.0090 0.0009

Jupiter 88565-09-06 15:22 G 34069011.04 34069011.14 34069011.25 0.0511 0.0295

Neptune 88565-10-28 22:05 G 34069063.24 34069063.42 34069063.60 0.0090 0.0019

Neptune 88566-01-25 01:12 G 34069151.38 34069151.55 34069151.73 0.0090 0.0030

Mars 88566-04-19 10:05 G 34069235.75 34069235.92 34069236.08 0.1940 0.0180

Neptune 88566-04-23 04:34 G 34069239.53 34069239.69 34069239.86 0.0090 0.0040

Neptune 88566-07-20 07:41 G 34069327.68 34069327.82 34069327.99 0.0090 0.0051

Neptune 88566-10-16 11:03 G 34069415.83 34069415.96 34069416.10 0.0090 0.0061

Neptune 88567-01-12 14:24 G 34069503.99 34069504.10 34069504.22 0.0090 0.0071

Neptune 88567-04-10 17:17 G 34069592.17 34069592.22 34069592.32 0.0090 0.0082

Moon 88568-03-29 13:41 G 34069945.92 34069946.07 34069946.22 0.2698 0.0176

Earth 88568-03-29 13:56 G 34069945.93 34069946.08 34069946.23 0.2705 0.0134 *

Uranus 88568-06-19 12:58 G 34070028.03 34070028.04 34070028.07 0.0134 0.0134

Uranus 88568-09-15 19:56 G 34070116.23 34070116.33 34070116.45 0.0134 0.0107

Uranus 88568-12-13 02:53 G 34070204.48 34070204.62 34070204.77 0.0134 0.0081

Uranus 88569-03-11 09:51 G 34070292.74 34070292.91 34070293.08 0.0134 0.0055

Uranus 88569-06-07 16:34 G 34070381.01 34070381.19 34070381.37 0.0134 0.0030

Uranus 88569-09-03 23:17 G 34070469.28 34070469.47 34070469.66 0.0134 0.0004

Uranus 88569-12-01 06:00 G 34070557.57 34070557.75 34070557.94 0.0134 0.0021

Uranus 88570-02-27 12:29 G 34070645.86 34070646.02 34070646.20 0.0134 0.0047

Uranus 88570-05-26 19:12 G 34070734.15 34070734.30 34070734.46 0.0134 0.0072

Uranus 88570-08-23 01:41 G 34070822.45 34070822.57 34070822.71 0.0134 0.0097

Moon 88570-10-01 01:56 G 34070861.52 34070861.58 34070861.65 0.2620 0.2146

Earth 88570-10-01 02:10 G 34070861.53 34070861.59 34070861.65 0.2627 0.2182 *

Uranus 88570-11-19 08:10 G 34070910.78 34070910.84 34070910.93 0.0134 0.0122

Jupiter 88571-11-04 07:41 G 34071260.66 34071260.82 34071260.98 0.0514 0.0224

Mars 88572-11-26 10:20 G 34071648.81 34071648.93 34071649.05 0.1595 0.0308

Mars 88574-11-01 12:15 G 34072353.93 34072354.01 34072354.10 0.1602 0.1121

Venus 88575-03-17 03:22 G 34072489.48 34072489.64 34072489.80 0.3750 0.0183

Mars 88575-09-09 02:39 G 34072665.50 34072665.61 34072665.72 0.1942 0.1423

Jupiter 88577-06-25 19:56 G 34073321.21 34073321.33 34073321.46 0.0512 0.0131

Earth 88577-09-24 00:15 G 34073411.42 34073411.51 34073411.60 0.2628 0.1639

Moon 88577-09-24 00:58 G 34073411.45 34073411.54 34073411.63 0.2630 0.1491 *

Saturn 88578-02-07 12:44 G 34073547.94 34073548.03 34073548.12 0.0299 0.0259

Saturn 88578-05-07 14:10 G 34073636.91 34073637.09 34073637.27 0.0299 0.0041

Saturn 88578-08-04 15:08 G 34073725.99 34073726.13 34073726.28 0.0300 0.0175

Moon 88581-04-01 17:03 G 34074697.16 34074697.21 34074697.26 0.2702 0.2519

Mars 88582-04-18 22:05 G 34075079.31 34075079.42 34075079.52 0.1593 0.0650

Jupiter 88583-08-23 04:34 G 34075570.51 34075570.69 34075570.87 0.0514 0.0025

Mars 88584-03-23 23:46 G 34075784.39 34075784.49 34075784.59 0.1600 0.0767

Jupiter 88589-04-14 00:44 G 34077631.40 34077631.53 34077631.66 0.0513 0.0029

Earth 88590-09-26 18:29 G 34078162.15 34078162.27 34078162.38 0.2628 0.0314

Moon 88590-09-26 19:12 G 34078162.18 34078162.30 34078162.41 0.2625 0.0276 *

Mars 88591-09-09 09:36 G 34078509.81 34078509.90 34078509.99 0.1592 0.0982

Saturn 88591-12-07 20:24 G 34078599.27 34078599.35 34078599.43 0.0263 0.0206

Saturn 88592-03-05 06:29 G 34078687.64 34078687.77 34078687.89 0.0263 0.0101

Saturn 88592-06-01 16:20 G 34078776.05 34078776.18 34078776.32 0.0262 0.0007

Saturn 88592-08-29 02:24 G 34078864.48 34078864.60 34078864.72 0.0262 0.0109

Saturn 88592-11-25 12:29 G 34078952.95 34078953.02 34078953.10 0.0262 0.0215

Mars 88593-08-14 11:17 G 34079214.85 34079214.97 34079215.08 0.1598 0.0417

Venus 88594-07-30 18:44 G 34079565.25 34079565.28 34079565.32 0.3623 0.3324

Jupiter 88595-06-11 01:12 G 34079880.40 34079880.55 34079880.71 0.0513 0.0276

Mars 88596-05-28 18:00 G 34080233.12 34080233.25 34080233.39 0.1936 0.1128

Venus 88600-02-13 09:51 G 34081588.81 34081588.91 34081589.01 0.3623 0.1221

Mars 88601-01-30 21:22 G 34081940.33 34081940.39 34081940.46 0.1591 0.1314

Jupiter 88601-02-01 05:17 G 34081941.60 34081941.72 34081941.84 0.0513 0.0193

Earth 88601-03-28 15:22 G 34081997.05 34081997.14 34081997.24 0.2705 0.2043

Moon 88601-03-28 15:51 G 34081997.05 34081997.16 34081997.27 0.2698 0.1879 *

Jupiter 88601-05-01 10:34 G 34082030.91 34082030.94 34082030.97 0.0511 0.0489

Mars 88603-01-05 22:48 G 34082645.33 34082645.45 34082645.56 0.1596 0.0086

Earth 88603-09-30 12:44 G 34082912.92 34082913.03 34082913.13 0.2627 0.1069

Moon 88603-09-30 12:58 G 34082912.93 34082913.04 34082913.14 0.2621 0.1143 *

Mars 88604-12-11 00:58 G 34083350.51 34083350.54 34083350.58 0.1604 0.1519

Venus 88605-08-30 00:58 G 34083612.44 34083612.54 34083612.64 0.3622 0.0913

Mars 88605-10-19 11:03 G 34083662.80 34083662.96 34083663.13 0.1939 0.0093

Jupiter 88607-03-30 22:48 G 34084190.45 34084190.45 34084190.47 0.0513 0.0511

Jupiter 88607-06-29 09:08 G 34084280.83 34084280.88 34084280.94 0.0515 0.0485

Saturn 88607-09-25 09:51 G 34084368.74 34084368.91 34084369.08 0.0299 0.0123

Saturn 88607-12-23 11:03 G 34084457.79 34084457.96 34084458.13 0.0299 0.0094

Moon 88610-09-23 11:32 G 34085462.97 34085462.98 34085462.98 0.2635 0.2622

Uranus 88610-12-17 18:44 G 34085548.22 34085548.28 34085548.34 0.0144 0.0125

Venus 88611-03-15 16:05 G 34085636.12 34085636.17 34085636.22 0.3622 0.3060

Uranus 88611-03-15 22:20 G 34085636.34 34085636.43 34085636.53 0.0144 0.0103

Uranus 88611-06-12 01:56 G 34085724.48 34085724.58 34085724.70 0.0144 0.0081

Uranus 88611-09-08 06:00 G 34085812.62 34085812.75 34085812.87 0.0144 0.0058

Uranus 88611-12-05 09:36 G 34085900.77 34085900.90 34085901.03 0.0144 0.0036

Uranus 88612-03-02 13:27 G 34085988.93 34085989.06 34085989.20 0.0144 0.0013

Mars 88612-05-28 10:20 G 34086075.81 34086075.93 34086076.04 0.1594 0.0279

Uranus 88612-05-29 17:17 G 34086077.09 34086077.22 34086077.36 0.0144 0.0010

Uranus 88612-08-25 21:08 G 34086165.25 34086165.38 34086165.51 0.0144 0.0033

Jupiter 88612-11-20 09:08 G 34086251.79 34086251.88 34086251.97 0.0514 0.0376

Uranus 88612-11-22 00:58 G 34086253.42 34086253.54 34086253.67 0.0144 0.0056

Jupiter 88613-02-17 14:10 G 34086340.99 34086341.09 34086341.20 0.0511 0.0304

Uranus 88613-02-18 04:48 G 34086341.59 34086341.70 34086341.81 0.0144 0.0079

Uranus 88613-05-17 08:24 G 34086429.77 34086429.85 34086429.96 0.0144 0.0104

Uranus 88613-08-13 12:29 G 34086517.96 34086518.02 34086518.09 0.0144 0.0126

Moon 88614-03-31 19:41 G 34086748.17 34086748.32 34086748.47 0.2699 0.0478

Earth 88614-03-31 20:10 G 34086748.20 34086748.34 34086748.49 0.2705 0.0641 *

Mars 88614-05-03 12:15 G 34086780.93 34086781.01 34086781.09 0.1602 0.1156

Mars 88615-03-11 02:53 G 34087092.51 34087092.62 34087092.74 0.1942 0.1365

Moon 88616-10-02 06:58 G 34087663.74 34087663.79 34087663.83 0.2620 0.2406

Earth 88616-10-02 07:12 G 34087663.76 34087663.80 34087663.83 0.2626 0.2463 *

Jupiter 88619-04-17 07:12 G 34088590.64 34088590.80 34088590.95 0.0514 0.0252

Saturn 88621-04-26 23:17 G 34089331.42 34089331.47 34089331.53 0.0264 0.0236

Saturn 88621-07-24 09:08 G 34089419.77 34089419.88 34089420.00 0.0263 0.0132

Mars 88621-10-18 21:51 G 34089506.31 34089506.41 34089506.52 0.1593 0.0620

Saturn 88621-10-20 19:12 G 34089508.17 34089508.30 34089508.44 0.0263 0.0027

Saturn 88622-01-17 05:17 G 34089596.59 34089596.72 34089596.85 0.0262 0.0079

Saturn 88622-04-15 15:22 G 34089685.05 34089685.14 34089685.24 0.0262 0.0185

Mars 88623-09-23 23:46 G 34090211.38 34090211.49 34090211.59 0.1600 0.0797

Earth 88623-09-26 05:03 G 34090213.62 34090213.71 34090213.81 0.2628 0.1373

Moon 88623-09-26 05:46 G 34090213.65 34090213.74 34090213.84 0.2629 0.1327 *

Jupiter 88624-12-06 18:29 G 34090651.15 34090651.27 34090651.40 0.0512 0.0136

Jupiter 88631-02-03 03:51 G 34092900.48 34092900.66 34092900.84 0.0514 0.0001

Mars 88631-03-11 09:36 G 34092936.81 34092936.90 34092937.00 0.1592 0.0951

Venus 88631-10-23 05:46 G 34093162.63 34093162.74 34093162.86 0.3751 0.2617

Mars 88633-02-13 11:17 G 34093641.85 34093641.97 34093642.08 0.1598 0.0449

Mars 88635-11-28 18:58 G 34094660.17 34094660.29 34094660.42 0.1937 0.1202

Jupiter 88636-09-24 23:17 G 34094961.34 34094961.47 34094961.59 0.0513 0.0033

Earth 88636-09-27 23:17 G 34094964.36 34094964.47 34094964.58 0.2627 0.0028

Moon 88636-09-28 00:00 G 34094964.38 34094964.50 34094964.61 0.2625 0.0139 *

Saturn 88637-02-11 06:58 G 34095100.65 34095100.79 34095100.93 0.0299 0.0194

Saturn 88637-05-11 08:24 G 34095189.67 34095189.85 34095190.03 0.0300 0.0024

Saturn 88637-08-08 09:08 G 34095278.78 34095278.88 34095279.00 0.0300 0.0240

Mars 88640-07-31 21:22 G 34096367.33 34096367.39 34096367.46 0.1591 0.1283

Mars 88642-07-06 22:34 G 34097072.33 34097072.44 34097072.56 0.1596 0.0112

Jupiter 88642-11-22 00:44 G 34097210.37 34097210.53 34097210.69 0.0513 0.0248

Mars 88644-06-11 00:58 G 34097777.52 34097777.54 34097777.57 0.1604 0.1551

Neptune 88644-09-06 00:58 G 34097864.53 34097864.54 34097864.57 0.0088 0.0086

Neptune 88644-12-03 02:24 G 34097952.55 34097952.60 34097952.66 0.0088 0.0079

Neptune 88645-03-01 03:51 G 34098040.59 34098040.66 34098040.74 0.0088 0.0072

Mars 88645-04-19 12:00 G 34098089.83 34098090.00 34098090.16 0.1939 0.0041

Neptune 88645-05-28 05:03 G 34098128.63 34098128.71 34098128.81 0.0088 0.0065

Neptune 88645-08-24 06:29 G 34098216.67 34098216.77 34098216.87 0.0088 0.0058

Neptune 88645-11-20 07:41 G 34098304.72 34098304.82 34098304.94 0.0088 0.0051

Neptune 88646-02-16 09:08 G 34098392.77 34098392.88 34098393.00 0.0088 0.0043

Neptune 88646-05-15 10:34 G 34098480.82 34098480.94 34098481.07 0.0088 0.0036

Neptune 88646-08-11 12:00 G 34098568.87 34098569.00 34098569.13 0.0088 0.0029

Neptune 88646-11-07 13:27 G 34098656.93 34098657.06 34098657.19 0.0088 0.0022

Neptune 88647-02-03 14:39 G 34098744.98 34098745.11 34098745.25 0.0088 0.0015

Earth 88647-03-29 21:51 G 34098799.29 34098799.41 34098799.53 0.2705 0.1534

Moon 88647-03-29 22:05 G 34098799.30 34098799.42 34098799.55 0.2698 0.1578 *

Neptune 88647-05-02 16:05 G 34098833.04 34098833.17 34098833.31 0.0088 0.0007

Neptune 88647-07-29 17:32 G 34098921.09 34098921.23 34098921.37 0.0088 0.0000

Neptune 88647-10-25 18:58 G 34099009.15 34099009.29 34099009.42 0.0088 0.0007

Neptune 88648-01-21 20:10 G 34099097.21 34099097.34 34099097.48 0.0088 0.0015

Neptune 88648-04-18 21:36 G 34099185.27 34099185.40 34099185.54 0.0088 0.0022

Jupiter 88648-07-14 04:05 G 34099271.55 34099271.67 34099271.79 0.0513 0.0187

Neptune 88648-07-15 23:03 G 34099273.33 34099273.46 34099273.59 0.0088 0.0029

Jupiter 88648-10-11 09:22 G 34099360.86 34099360.89 34099360.91 0.0511 0.0496

Neptune 88648-10-12 00:29 G 34099361.40 34099361.52 34099361.65 0.0088 0.0036

Neptune 88649-01-08 01:56 G 34099449.46 34099449.58 34099449.70 0.0088 0.0044

Neptune 88649-04-06 03:22 G 34099537.53 34099537.64 34099537.75 0.0088 0.0051

Neptune 88649-07-03 04:34 G 34099625.60 34099625.69 34099625.80 0.0088 0.0059

Neptune 88649-09-29 06:00 G 34099713.67 34099713.75 34099713.85 0.0088 0.0066

Moon 88649-09-30 17:46 G 34099715.14 34099715.24 34099715.34 0.2620 0.1296

Earth 88649-09-30 17:32 G 34099715.14 34099715.23 34099715.33 0.2627 0.1347 *

Neptune 88649-12-26 07:41 G 34099801.75 34099801.82 34099801.89 0.0088 0.0073

Neptune 88650-03-24 08:53 G 34099889.83 34099889.87 34099889.93 0.0088 0.0081

Saturn 88650-12-11 11:32 G 34100151.88 34100151.98 34100152.08 0.0263 0.0167

Venus 88651-03-07 16:05 G 34100238.10 34100238.17 34100238.24 0.3623 0.2542

Saturn 88651-03-09 21:22 G 34100240.27 34100240.39 34100240.53 0.0263 0.0063

Saturn 88651-06-06 07:27 G 34100328.68 34100328.81 34100328.94 0.0262 0.0043

Saturn 88651-09-02 17:32 G 34100417.12 34100417.23 34100417.34 0.0262 0.0148

Mars 88651-11-27 10:20 G 34100502.81 34100502.93 34100503.04 0.1594 0.0247

Saturn 88651-11-30 03:36 G 34100505.62 34100505.65 34100505.68 0.0261 0.0254

Uranus 88652-07-10 20:53 G 34100729.31 34100729.37 34100729.46 0.0134 0.0124

Uranus 88652-10-07 03:51 G 34100817.54 34100817.66 34100817.80 0.0134 0.0097

Uranus 88653-01-03 10:48 G 34100905.80 34100905.95 34100906.12 0.0134 0.0071

Uranus 88653-04-01 17:46 G 34100994.07 34100994.24 34100994.42 0.0134 0.0045

Uranus 88653-06-29 00:29 G 34101082.34 34101082.52 34101082.71 0.0134 0.0020

Uranus 88653-09-25 07:27 G 34101170.62 34101170.81 34101170.99 0.0134 0.0007

Mars 88653-11-01 12:15 G 34101207.93 34101208.01 34101208.09 0.1602 0.1188

Uranus 88653-12-22 13:56 G 34101258.90 34101259.08 34101259.27 0.0134 0.0032

Uranus 88654-03-20 20:39 G 34101347.20 34101347.36 34101347.53 0.0134 0.0057

Uranus 88654-06-17 03:22 G 34101435.50 34101435.64 34101435.79 0.0134 0.0082

Mars 88654-09-09 04:05 G 34101519.54 34101519.67 34101519.79 0.1942 0.1278

Jupiter 88654-09-09 21:22 G 34101520.36 34101520.39 34101520.43 0.0513 0.0498

Uranus 88654-09-13 09:51 G 34101523.81 34101523.91 34101524.02 0.0134 0.0107

Jupiter 88654-12-09 07:41 G 34101610.78 34101610.82 34101610.87 0.0515 0.0496

Uranus 88654-12-10 16:20 G 34101612.16 34101612.18 34101612.22 0.0134 0.0132

Venus 88656-09-20 07:12 G 34102261.70 34102261.80 34102261.90 0.3622 0.0436

Earth 88656-09-23 15:51 G 34102265.12 34102265.16 34102265.20 0.2629 0.2435

Moon 88656-09-23 16:20 G 34102265.14 34102265.18 34102265.23 0.2634 0.2395 *

Moon 88660-04-01 01:41 G 34103550.43 34103550.57 34103550.71 0.2700 0.1112

Earth 88660-04-01 02:39 G 34103550.47 34103550.61 34103550.74 0.2706 0.1128 *

Jupiter 88660-05-02 08:39 G 34103581.77 34103581.86 34103581.96 0.0514 0.0349

Jupiter 88660-07-30 13:56 G 34103670.98 34103671.08 34103671.18 0.0511 0.0333

Mars 88661-04-18 21:51 G 34103933.30 34103933.41 34103933.52 0.1593 0.0588

Venus 88662-04-05 22:20 G 34104285.34 34104285.43 34104285.52 0.3622 0.1707

Mars 88663-03-24 23:46 G 34104638.39 34104638.49 34104638.59 0.1600 0.0830

Saturn 88666-07-01 01:41 G 34105832.52 34105832.57 34105832.62 0.0298 0.0283

Jupiter 88666-09-27 05:46 G 34105920.59 34105920.74 34105920.89 0.0514 0.0266

Saturn 88666-09-28 03:08 G 34105921.45 34105921.63 34105921.81 0.0299 0.0065

Saturn 88666-12-26 04:05 G 34106010.52 34106010.67 34106010.84 0.0299 0.0152

Earth 88669-09-26 10:05 G 34107015.81 34107015.92 34107016.02 0.2628 0.1114

Moon 88669-09-26 10:48 G 34107015.84 34107015.95 34107016.05 0.2628 0.0966 *

Mars 88670-09-09 09:36 G 34107363.80 34107363.90 34107363.99 0.1592 0.0923

Jupiter 88672-05-18 17:32 G 34107981.11 34107981.23 34107981.36 0.0512 0.0149

Mars 88672-08-14 11:03 G 34108068.85 34108068.96 34108069.08 0.1598 0.0481

Mars 88675-05-29 19:41 G 34109087.20 34109087.32 34109087.44 0.1936 0.1272

Jupiter 88678-07-16 03:36 G 34110230.47 34110230.65 34110230.83 0.0514 0.0034

Mars 88680-01-30 21:22 G 34110794.32 34110794.39 34110794.46 0.1591 0.1252

Saturn 88680-04-29 14:10 G 34110884.01 34110884.09 34110884.18 0.0264 0.0199

Saturn 88680-07-27 00:00 G 34110972.38 34110972.50 34110972.63 0.0263 0.0095

Saturn 88680-10-23 10:05 G 34111060.79 34111060.92 34111061.05 0.0263 0.0010

Saturn 88681-01-19 20:10 G 34111149.22 34111149.34 34111149.46 0.0262 0.0116

Saturn 88681-04-18 06:00 G 34111237.69 34111237.75 34111237.83 0.0262 0.0222

Mars 88682-01-04 22:34 G 34111499.32 34111499.44 34111499.56 0.1596 0.0127

Earth 88682-09-29 04:05 G 34111766.56 34111766.67 34111766.79 0.2627 0.0256

Moon 88682-09-29 04:48 G 34111766.58 34111766.70 34111766.81 0.2623 0.0270 *

Venus 88682-11-12 21:22 G 34111811.31 34111811.39 34111811.46 0.3750 0.3275

Mars 88683-12-11 00:58 G 34112204.53 34112204.54 34112204.56 0.1604 0.1581

Jupiter 88684-03-06 22:05 G 34112291.29 34112291.42 34112291.55 0.0512 0.0021

Mars 88684-10-18 12:29 G 34112516.85 34112517.02 34112517.18 0.1940 0.0059

Mars 88689-06-22 09:07 G 34114224.87 34114224.88 34114224.89 0.1590 0.1580

Jupiter 88690-05-04 00:29 G 34114540.35 34114540.52 34114540.68 0.0513 0.0216

Mars 88691-05-28 10:19 G 34114929.81 34114929.93 34114930.04 0.1594 0.0217

Earth 88693-03-30 04:05 G 34115601.53 34115601.67 34115601.81 0.2705 0.1037

Moon 88693-03-30 04:19 G 34115601.54 34115601.68 34115601.82 0.2698 0.0941 *

Mars 88693-05-02 12:15 G 34115634.93 34115635.01 34115635.09 0.1602 0.1216

Mars 88694-03-10 05:03 G 34115946.58 34115946.71 34115946.84 0.1942 0.1190

Uranus 88694-10-10 22:48 G 34116161.42 34116161.45 34116161.49 0.0144 0.0138

Uranus 88695-01-07 02:39 G 34116249.54 34116249.61 34116249.69 0.0144 0.0116

Uranus 88695-04-05 06:15 G 34116337.67 34116337.76 34116337.87 0.0144 0.0094

Uranus 88695-07-02 10:05 G 34116425.81 34116425.92 34116426.04 0.0144 0.0071

Uranus 88695-09-28 13:55 G 34116513.95 34116514.08 34116514.21 0.0144 0.0049

Moon 88695-10-01 22:34 G 34116517.35 34116517.44 34116517.53 0.2620 0.1695

Earth 88695-10-01 22:34 G 34116517.35 34116517.44 34116517.53 0.2627 0.1623 *

Jupiter 88695-12-25 02:39 G 34116601.49 34116601.61 34116601.73 0.0513 0.0182

Uranus 88695-12-25 17:46 G 34116602.10 34116602.24 34116602.37 0.0144 0.0026

Saturn 88696-02-15 00:00 G 34116653.34 34116653.50 34116653.66 0.0299 0.0139

Uranus 88696-03-22 21:36 G 34116690.26 34116690.40 34116690.53 0.0144 0.0005

Jupiter 88696-03-23 07:55 G 34116690.81 34116690.83 34116690.85 0.0511 0.0500

Saturn 88696-05-14 01:12 G 34116742.38 34116742.55 34116742.73 0.0300 0.0079

Uranus 88696-06-19 01:12 G 34116778.42 34116778.55 34116778.69 0.0144 0.0020

Saturn 88696-08-11 02:10 G 34116831.56 34116831.59 34116831.63 0.0300 0.0293

Uranus 88696-09-15 05:03 G 34116866.58 34116866.71 34116866.84 0.0144 0.0043

Uranus 88696-12-12 08:53 G 34116954.75 34116954.87 34116954.99 0.0144 0.0066

Uranus 88697-03-10 12:43 G 34117042.93 34117043.03 34117043.14 0.0144 0.0089

Uranus 88697-06-06 16:34 G 34117131.11 34117131.19 34117131.28 0.0144 0.0112

Uranus 88697-09-02 20:39 G 34117219.32 34117219.36 34117219.40 0.0144 0.0136

Mars 88700-10-18 21:51 G 34118360.30 34118360.41 34118360.52 0.1593 0.0556

Jupiter 88702-02-20 21:07 G 34118850.31 34118850.38 34118850.46 0.0512 0.0465

Mars 88702-09-23 23:46 G 34119065.39 34119065.49 34119065.59 0.1600 0.0863

Earth 88702-09-25 20:53 G 34119067.30 34119067.37 34119067.43 0.2629 0.2172

Moon 88702-09-25 21:22 G 34119067.33 34119067.39 34119067.46 0.2632 0.2114 *

Pluto 88702-11-20 04:34 G 34119122.63 34119122.69 34119122.79 0.0061 0.0054

Pluto 88703-02-16 06:00 G 34119210.63 34119210.75 34119210.87 0.0061 0.0044

Pluto 88703-05-15 06:43 G 34119298.65 34119298.78 34119298.94 0.0062 0.0034

Pluto 88703-08-11 08:10 G 34119386.67 34119386.84 34119387.00 0.0062 0.0023

Pluto 88703-11-07 08:53 G 34119474.71 34119474.87 34119475.06 0.0062 0.0013

Pluto 88704-02-03 10:05 G 34119562.75 34119562.92 34119563.10 0.0062 0.0003

Pluto 88704-05-01 11:03 G 34119650.80 34119650.96 34119651.15 0.0062 0.0009

Pluto 88704-07-28 12:15 G 34119738.85 34119739.01 34119739.18 0.0062 0.0019

Pluto 88704-10-24 12:58 G 34119826.90 34119827.04 34119827.21 0.0062 0.0030

Pluto 88705-01-20 14:10 G 34119914.97 34119915.09 34119915.24 0.0062 0.0041

Pluto 88705-04-18 15:07 G 34120003.05 34120003.13 34120003.25 0.0062 0.0051

Pluto 88705-07-15 16:34 G 34120091.17 34120091.19 34120091.21 0.0062 0.0062

Moon 88706-04-03 07:55 G 34120352.70 34120352.83 34120352.96 0.2700 0.1391

Earth 88706-04-03 08:53 G 34120352.75 34120352.87 34120352.99 0.2706 0.1628 *

Venus 88707-10-13 13:27 G 34120910.97 34120911.06 34120911.15 0.3623 0.1762

Jupiter 88707-10-14 07:27 G 34120911.72 34120911.81 34120911.91 0.0514 0.0341

Jupiter 88708-01-11 12:43 G 34121000.93 34121001.03 34121001.13 0.0511 0.0342

Saturn 88709-09-17 16:05 G 34121616.12 34121616.17 34121616.24 0.0264 0.0237

Saturn 88709-12-15 02:10 G 34121704.48 34121704.59 34121704.71 0.0263 0.0132

Mars 88710-03-11 09:36 G 34121790.80 34121790.90 34121791.00 0.1592 0.0889

Saturn 88710-03-13 12:15 G 34121792.87 34121793.01 34121793.14 0.0262 0.0028

Saturn 88710-06-09 22:05 G 34121881.29 34121881.42 34121881.55 0.0262 0.0078

Saturn 88710-09-06 08:10 G 34121969.75 34121969.84 34121969.94 0.0261 0.0184

Mars 88712-02-14 11:03 G 34122495.85 34122495.96 34122496.08 0.1598 0.0510

Venus 88713-04-28 04:34 G 34122934.58 34122934.69 34122934.79 0.3622 0.0374

Jupiter 88714-03-10 04:34 G 34123250.54 34123250.69 34123250.84 0.0514 0.0282

Mars 88714-11-28 20:24 G 34123514.23 34123514.35 34123514.47 0.1936 0.1343

Earth 88715-09-28 14:53 G 34123818.01 34123818.12 34123818.23 0.2628 0.0840

Moon 88715-09-28 15:36 G 34123818.04 34123818.15 34123818.26 0.2628 0.0766 *

Venus 88718-11-11 19:41 G 34124958.24 34124958.32 34124958.39 0.3622 0.2499

Mars 88719-08-01 21:22 G 34125221.32 34125221.39 34125221.46 0.1591 0.1222

Jupiter 88719-08-02 12:15 G 34125221.99 34125222.01 34125222.04 0.0514 0.0501

Jupiter 88719-10-30 17:17 G 34125311.10 34125311.22 34125311.35 0.0512 0.0180

Mars 88721-07-06 22:34 G 34125926.33 34125926.44 34125926.56 0.1596 0.0166

Mars 88724-04-19 13:27 G 34126943.90 34126944.06 34126944.23 0.1940 0.0147

Saturn 88725-07-04 18:15 G 34127385.15 34127385.26 34127385.38 0.0298 0.0232

Saturn 88725-10-01 19:41 G 34127474.14 34127474.32 34127474.51 0.0299 0.0016

Jupiter 88725-12-27 02:24 G 34127560.43 34127560.60 34127560.78 0.0514 0.0054

Saturn 88725-12-29 20:53 G 34127563.24 34127563.37 34127563.50 0.0300 0.0202

Neptune 88728-02-27 09:07 G 34128352.84 34128352.88 34128352.94 0.0090 0.0086

Neptune 88728-05-25 12:15 G 34128440.93 34128441.01 34128441.13 0.0090 0.0076

Neptune 88728-08-21 15:51 G 34128529.05 34128529.16 34128529.31 0.0090 0.0065

Earth 88728-09-30 09:07 G 34128568.77 34128568.88 34128568.99 0.2627 0.0517

Moon 88728-09-30 09:36 G 34128568.78 34128568.90 34128569.01 0.2622 0.0624 *

Neptune 88728-11-17 19:27 G 34128617.17 34128617.31 34128617.47 0.0090 0.0054

Mars 88728-12-22 09:07 G 34128651.86 34128651.88 34128651.90 0.1590 0.1551

Neptune 88729-02-13 23:03 G 34128705.30 34128705.46 34128705.63 0.0090 0.0043

Neptune 88729-05-13 02:10 G 34128793.43 34128793.59 34128793.78 0.0090 0.0033

Neptune 88729-08-09 05:46 G 34128881.57 34128881.74 34128881.93 0.0090 0.0022

Neptune 88729-11-05 09:22 G 34128969.70 34128969.89 34128970.07 0.0090 0.0011

Neptune 88730-02-01 12:43 G 34129057.84 34129058.03 34129058.21 0.0090 0.0001

Neptune 88730-04-30 15:51 G 34129145.98 34129146.16 34129146.35 0.0090 0.0011

Neptune 88730-07-27 19:12 G 34129234.12 34129234.30 34129234.49 0.0090 0.0021

Neptune 88730-10-23 22:19 G 34129322.27 34129322.43 34129322.62 0.0090 0.0032

Mars 88730-11-27 10:19 G 34129356.81 34129356.93 34129357.04 0.1594 0.0192

Neptune 88731-01-20 01:41 G 34129410.42 34129410.57 34129410.75 0.0090 0.0042

Neptune 88731-04-18 05:17 G 34129498.57 34129498.72 34129498.87 0.0090 0.0052

Neptune 88731-07-15 08:10 G 34129586.73 34129586.84 34129586.99 0.0090 0.0063

Jupiter 88731-08-18 21:07 G 34129621.25 34129621.38 34129621.51 0.0512 0.0006

Neptune 88731-10-11 11:31 G 34129674.89 34129674.98 34129675.10 0.0090 0.0073

Neptune 88732-01-07 15:07 G 34129763.06 34129763.13 34129763.20 0.0090 0.0083

Mars 88732-11-01 12:15 G 34130061.94 34130062.01 34130062.09 0.1602 0.1252

Mars 88733-09-09 05:31 G 34130373.60 34130373.73 34130373.87 0.1942 0.1129

Uranus 88736-08-01 05:03 G 34131430.62 34131430.71 34131430.83 0.0134 0.0113

Uranus 88736-10-28 12:00 G 34131518.87 34131519.00 34131519.16 0.0134 0.0087

Uranus 88737-01-24 18:58 G 34131607.13 34131607.29 34131607.47 0.0134 0.0060

Uranus 88737-04-23 01:55 G 34131695.40 34131695.58 34131695.77 0.0134 0.0034

Uranus 88737-07-20 08:53 G 34131783.68 34131783.87 34131784.05 0.0134 0.0009

Jupiter 88737-10-15 00:15 G 34131870.34 34131870.51 34131870.68 0.0513 0.0181

Uranus 88737-10-16 15:36 G 34131871.96 34131872.15 34131872.33 0.0134 0.0017

Uranus 88738-01-12 22:05 G 34131960.25 34131960.42 34131960.60 0.0134 0.0043

Uranus 88738-04-11 04:48 G 34132048.55 34132048.70 34132048.87 0.0134 0.0068

Uranus 88738-07-08 11:31 G 34132136.85 34132136.98 34132137.11 0.0134 0.0093

Uranus 88738-10-04 18:00 G 34132225.17 34132225.25 34132225.34 0.0134 0.0118

Moon 88739-04-01 10:19 G 34132403.78 34132403.93 34132404.07 0.2698 0.0596

Earth 88739-04-01 10:19 G 34132403.79 34132403.93 34132404.08 0.2705 0.0540 *

Saturn 88739-05-04 04:34 G 34132436.59 34132436.69 34132436.79 0.0264 0.0167

Venus 88739-06-20 23:46 G 34132484.34 34132484.49 34132484.65 0.3750 0.0453

Saturn 88739-07-31 14:39 G 34132524.98 34132525.11 34132525.24 0.0263 0.0062

Saturn 88739-10-28 00:29 G 34132613.39 34132613.52 34132613.66 0.0262 0.0044

Saturn 88740-01-24 10:34 G 34132701.83 34132701.94 34132702.05 0.0262 0.0149

Mars 88740-04-18 21:51 G 34132787.30 34132787.41 34132787.52 0.1593 0.0526

Saturn 88740-04-21 20:39 G 34132790.34 34132790.36 34132790.39 0.0261 0.0255

Moon 88741-10-03 03:22 G 34133319.56 34133319.64 34133319.73 0.2620 0.1833

Earth 88741-10-03 03:22 G 34133319.57 34133319.64 34133319.72 0.2627 0.1901 *

Mars 88742-03-24 23:46 G 34133492.39 34133492.49 34133492.58 0.1599 0.0892

Jupiter 88743-06-07 01:41 G 34133931.45 34133931.57 34133931.69 0.0513 0.0171

Earth 88748-09-26 01:41 G 34135869.49 34135869.57 34135869.65 0.2628 0.1907

Moon 88748-09-26 02:24 G 34135869.52 34135869.60 34135869.68 0.2631 0.1782 *

Jupiter 88749-08-02 21:07 G 34136180.28 34136180.38 34136180.47 0.0512 0.0430

Mars 88749-09-09 09:36 G 34136217.80 34136217.90 34136218.00 0.1592 0.0859

Mars 88751-08-15 11:03 G 34136922.85 34136922.96 34136923.07 0.1598 0.0541

Moon 88752-04-03 14:10 G 34137154.99 34137155.09 34137155.18 0.2700 0.2063

Earth 88752-04-03 15:07 G 34137155.04 34137155.13 34137155.22 0.2706 0.2108 *

Mars 88754-05-29 21:36 G 34137941.29 34137941.40 34137941.51 0.1937 0.1429

Saturn 88755-02-18 16:19 G 34138206.01 34138206.18 34138206.35 0.0299 0.0091

Jupiter 88755-03-26 06:15 G 34138241.66 34138241.76 34138241.86 0.0514 0.0334

Saturn 88755-05-18 17:31 G 34138295.07 34138295.23 34138295.40 0.0300 0.0126

Jupiter 88755-06-23 11:17 G 34138330.88 34138330.97 34138331.07 0.0511 0.0348

Venus 88758-11-03 19:41 G 34139560.27 34139560.32 34139560.37 0.3623 0.3078

Mars 88759-01-30 21:22 G 34139648.31 34139648.39 34139648.46 0.1591 0.1191

Mars 88761-01-04 22:34 G 34140353.32 34140353.44 34140353.56 0.1596 0.0193

Jupiter 88761-08-20 04:19 G 34140580.54 34140580.68 34140580.82 0.0514 0.0318

Earth 88761-09-28 19:41 G 34140620.21 34140620.32 34140620.43 0.2628 0.0574

Moon 88761-09-28 20:24 G 34140620.24 34140620.35 34140620.47 0.2627 0.0467 *

Mars 88763-10-19 14:24 G 34141370.93 34141371.10 34141371.26 0.1939 0.0219

Venus 88764-05-19 10:48 G 34141583.85 34141583.95 34141584.04 0.3623 0.0998

Jupiter 88767-01-12 11:03 G 34142551.93 34142551.96 34142552.00 0.0515 0.0492

Jupiter 88767-04-11 16:05 G 34142641.05 34142641.17 34142641.30 0.0512 0.0190

Mars 88768-06-22 09:07 G 34143078.85 34143078.88 34143078.91 0.1590 0.1518

Saturn 88768-09-20 06:43 G 34143168.70 34143168.78 34143168.86 0.0263 0.0204

Saturn 88768-12-17 16:34 G 34143257.07 34143257.19 34143257.32 0.0263 0.0099

Saturn 88769-03-16 02:39 G 34143345.48 34143345.61 34143345.74 0.0262 0.0006

Saturn 88769-06-12 12:43 G 34143433.91 34143434.03 34143434.15 0.0262 0.0111

Saturn 88769-09-08 22:48 G 34143522.38 34143522.45 34143522.52 0.0261 0.0217

Venus 88769-12-03 01:41 G 34143607.48 34143607.57 34143607.67 0.3622 0.1152

Mars 88770-05-28 10:19 G 34143783.81 34143783.93 34143784.04 0.1594 0.0164

Moon 88772-03-29 12:29 G 34144454.98 34144455.02 34144455.06 0.2698 0.2601

Mars 88772-05-02 12:15 G 34144488.94 34144489.01 34144489.08 0.1602 0.1281

Mars 88773-03-10 06:29 G 34144800.63 34144800.77 34144800.91 0.1942 0.1045

Jupiter 88773-06-08 01:27 G 34144890.38 34144890.56 34144890.74 0.0514 0.0071

Earth 88774-10-01 13:55 G 34145370.97 34145371.08 34145371.19 0.2627 0.0797

Moon 88774-10-01 14:24 G 34145370.99 34145371.10 34145371.21 0.2621 0.0808 *

Venus 88775-06-18 16:48 G 34145631.16 34145631.20 34145631.24 0.3622 0.3278

Uranus 88778-11-01 06:43 G 34146862.73 34146862.78 34146862.85 0.0144 0.0129

Uranus 88779-01-28 10:34 G 34146950.86 34146950.94 34146951.03 0.0144 0.0106

Jupiter 88779-01-28 20:53 G 34146951.24 34146951.37 34146951.50 0.0513 0.0029

Uranus 88779-04-26 14:24 G 34147038.99 34147039.10 34147039.21 0.0144 0.0084

Uranus 88779-07-23 18:00 G 34147127.14 34147127.25 34147127.38 0.0144 0.0062

Mars 88779-10-18 21:51 G 34147214.30 34147214.41 34147214.52 0.1593 0.0493

Uranus 88779-10-19 21:51 G 34147215.28 34147215.41 34147215.54 0.0144 0.0039

Uranus 88780-01-16 01:41 G 34147303.44 34147303.57 34147303.70 0.0144 0.0016

Uranus 88780-04-13 05:31 G 34147391.59 34147391.73 34147391.86 0.0144 0.0006

Uranus 88780-07-10 09:22 G 34147479.76 34147479.89 34147480.02 0.0144 0.0029

Uranus 88780-10-06 13:12 G 34147567.92 34147568.05 34147568.17 0.0144 0.0052

Uranus 88781-01-02 17:03 G 34147656.09 34147656.21 34147656.32 0.0144 0.0075

Uranus 88781-03-31 20:53 G 34147744.27 34147744.37 34147744.47 0.0144 0.0098

Uranus 88781-06-28 00:29 G 34147832.46 34147832.52 34147832.60 0.0144 0.0122

Mars 88781-09-22 23:46 G 34147919.39 34147919.49 34147919.58 0.1600 0.0926

Saturn 88784-07-07 10:34 G 34148937.80 34148937.94 34148938.08 0.0298 0.0185

Saturn 88784-10-04 11:46 G 34149026.81 34149026.99 34149027.18 0.0299 0.0034

Saturn 88785-01-01 12:43 G 34149115.94 34149116.03 34149116.14 0.0300 0.0249

Jupiter 88785-03-26 23:17 G 34149200.30 34149200.47 34149200.64 0.0513 0.0161

Moon 88785-04-01 16:19 G 34149206.03 34149206.18 34149206.33 0.2699 0.0089

Earth 88785-04-01 16:48 G 34149206.05 34149206.20 34149206.35 0.2705 0.0042 *

Moon 88787-10-04 08:10 G 34150121.78 34150121.84 34150121.90 0.2621 0.2197

Earth 88787-10-04 08:24 G 34150121.79 34150121.85 34150121.91 0.2627 0.2179 *

Mars 88789-03-10 09:22 G 34150644.80 34150644.89 34150644.99 0.1592 0.0834

Jupiter 88790-11-17 00:43 G 34151261.41 34151261.53 34151261.66 0.0513 0.0153

Mars 88791-02-13 11:03 G 34151349.85 34151349.96 34151350.07 0.1597 0.0572

Mars 88793-11-27 22:05 G 34152368.31 34152368.42 34152368.52 0.1936 0.1489

Earth 88794-09-27 06:29 G 34152671.68 34152671.77 34152671.86 0.2628 0.1640

Moon 88794-09-27 07:12 G 34152671.71 34152671.80 34152671.89 0.2631 0.1596 *

Pluto 88795-03-23 21:22 G 34152849.33 34152849.39 34152849.48 0.0083 0.0070

Pluto 88795-06-19 23:03 G 34152937.35 34152937.46 34152937.58 0.0082 0.0049

Pluto 88795-09-16 00:29 G 34153025.39 34153025.52 34153025.65 0.0082 0.0029

Pluto 88795-12-13 01:55 G 34153113.43 34153113.58 34153113.72 0.0082 0.0008

Venus 88796-01-26 02:24 G 34153157.48 34153157.60 34153157.72 0.3751 0.2341

Pluto 88796-03-10 03:07 G 34153201.49 34153201.63 34153201.78 0.0082 0.0012

Pluto 88796-06-06 04:34 G 34153289.56 34153289.69 34153289.82 0.0082 0.0032

Pluto 88796-09-02 05:46 G 34153377.64 34153377.74 34153377.86 0.0082 0.0052

Pluto 88796-11-29 07:12 G 34153465.74 34153465.80 34153465.87 0.0082 0.0072

Jupiter 88797-01-12 20:53 G 34153510.26 34153510.37 34153510.49 0.0513 0.0395

Saturn 88798-02-07 08:53 G 34153900.83 34153900.87 34153900.93 0.0264 0.0241

Moon 88798-04-04 20:24 G 34153957.28 34153957.35 34153957.42 0.2701 0.2381

Earth 88798-04-04 21:22 G 34153957.36 34153957.39 34153957.43 0.2706 0.2602 *

Saturn 88798-05-06 18:58 G 34153989.18 34153989.29 34153989.41 0.0264 0.0135

Mars 88798-07-31 21:22 G 34154075.31 34154075.39 34154075.47 0.1591 0.1160

Saturn 88798-08-03 05:03 G 34154077.57 34154077.71 34154077.84 0.0263 0.0030

Saturn 88798-10-30 14:53 G 34154166.00 34154166.12 34154166.25 0.0262 0.0077

Saturn 88799-01-27 00:58 G 34154254.45 34154254.54 34154254.64 0.0262 0.0182

Mars 88800-07-05 22:34 G 34154780.32 34154780.44 34154780.56 0.1596 0.0220

Jupiter 88802-09-05 05:17 G 34155571.62 34155571.72 34155571.82 0.0513 0.0320

Jupiter 88802-12-03 10:19 G 34155660.84 34155660.93 34155661.03 0.0511 0.0361

Mars 88803-04-19 14:53 G 34155797.96 34155798.12 34155798.29 0.1940 0.0282

Earth 88807-09-30 00:43 G 34157422.41 34157422.53 34157422.64 0.2628 0.0302

Moon 88807-09-30 01:27 G 34157422.44 34157422.56 34157422.67 0.2625 0.0218 *

Mars 88807-12-22 09:07 G 34157505.84 34157505.88 34157505.92 0.1590 0.1489

Jupiter 88809-01-30 04:19 G 34157910.55 34157910.68 34157910.81 0.0514 0.0353

Neptune 88809-06-04 00:15 G 34158035.48 34158035.51 34158035.55 0.0088 0.0084

Neptune 88809-08-31 01:41 G 34158123.51 34158123.57 34158123.63 0.0088 0.0077

Mars 88809-11-26 10:19 G 34158210.81 34158210.93 34158211.04 0.1594 0.0136

Neptune 88809-11-27 02:53 G 34158211.55 34158211.62 34158211.71 0.0088 0.0070

Neptune 88810-02-23 04:19 G 34158299.59 34158299.68 34158299.78 0.0088 0.0063

Neptune 88810-05-22 05:31 G 34158387.64 34158387.73 34158387.84 0.0088 0.0056

Neptune 88810-08-18 06:58 G 34158475.68 34158475.79 34158475.91 0.0088 0.0049

Neptune 88810-11-14 08:24 G 34158563.73 34158563.85 34158563.97 0.0088 0.0041

Neptune 88811-02-10 09:36 G 34158651.78 34158651.90 34158652.03 0.0088 0.0035

Neptune 88811-05-09 11:03 G 34158739.84 34158739.96 34158740.09 0.0088 0.0027

Neptune 88811-08-05 12:29 G 34158827.89 34158828.02 34158828.15 0.0088 0.0020

Mars 88811-11-01 12:15 G 34158915.94 34158916.01 34158916.08 0.1602 0.1312

Neptune 88811-11-01 13:55 G 34158915.94 34158916.08 34158916.21 0.0088 0.0013 *

Neptune 88812-01-28 15:07 G 34159004.00 34159004.13 34159004.27 0.0088 0.0007

Neptune 88812-04-25 16:34 G 34159092.06 34159092.19 34159092.33 0.0088 0.0003

Neptune 88812-07-22 18:00 G 34159180.11 34159180.25 34159180.39 0.0088 0.0009

Mars 88812-09-08 07:41 G 34159227.67 34159227.82 34159227.96 0.1942 0.0955

Neptune 88812-10-18 19:27 G 34159268.17 34159268.31 34159268.44 0.0088 0.0016

Neptune 88813-01-14 20:39 G 34159356.24 34159356.36 34159356.50 0.0088 0.0024

Neptune 88813-04-12 22:05 G 34159444.30 34159444.42 34159444.55 0.0088 0.0031

Neptune 88813-07-09 23:31 G 34159532.36 34159532.48 34159532.61 0.0088 0.0038

Neptune 88813-10-06 00:58 G 34159620.43 34159620.54 34159620.66 0.0088 0.0045

Saturn 88813-11-24 07:12 G 34159669.71 34159669.80 34159669.89 0.0298 0.0261

Neptune 88814-01-02 02:24 G 34159708.49 34159708.60 34159708.71 0.0088 0.0053

Saturn 88814-02-21 08:39 G 34159758.68 34159758.86 34159759.04 0.0299 0.0042

Neptune 88814-03-31 03:51 G 34159796.56 34159796.66 34159796.76 0.0088 0.0060

Saturn 88814-05-21 09:36 G 34159847.76 34159847.90 34159848.06 0.0300 0.0175

Jupiter 88814-06-24 09:51 G 34159881.87 34159881.91 34159881.96 0.0514 0.0484

Neptune 88814-06-27 05:03 G 34159884.64 34159884.71 34159884.81 0.0088 0.0068

Jupiter 88814-09-21 14:53 G 34159971.00 34159971.12 34159971.24 0.0512 0.0197

Neptune 88814-09-23 06:43 G 34159972.71 34159972.78 34159972.85 0.0088 0.0075

Neptune 88814-12-20 07:55 G 34160060.80 34160060.83 34160060.89 0.0088 0.0082

Venus 88815-06-10 17:03 G 34160233.13 34160233.21 34160233.28 0.3623 0.2316

Earth 88818-03-30 18:00 G 34161257.17 34161257.25 34161257.34 0.2704 0.2243

Moon 88818-03-30 18:43 G 34161257.19 34161257.28 34161257.36 0.2698 0.2223 *

Mars 88819-04-18 21:51 G 34161641.30 34161641.41 34161641.52 0.1593 0.0464

Uranus 88820-05-25 06:29 G 34162043.72 34162043.77 34162043.83 0.0134 0.0128

Uranus 88820-08-21 13:27 G 34162131.95 34162132.06 34162132.19 0.0134 0.0101

Earth 88820-10-01 18:58 G 34162173.18 34162173.29 34162173.39 0.2627 0.1069

Moon 88820-10-01 19:12 G 34162173.20 34162173.30 34162173.41 0.2621 0.1137 *

Uranus 88820-11-17 20:24 G 34162220.20 34162220.35 34162220.51 0.0134 0.0075

Jupiter 88820-11-18 01:12 G 34162220.38 34162220.55 34162220.73 0.0514 0.0108 *

Venus 88820-12-24 07:55 G 34162256.73 34162256.83 34162256.94 0.3622 0.0232

Uranus 88821-02-14 03:07 G 34162308.47 34162308.63 34162308.82 0.0134 0.0050

Mars 88821-03-23 23:46 G 34162346.39 34162346.49 34162346.58 0.1599 0.0957

Uranus 88821-05-13 10:05 G 34162396.74 34162396.92 34162397.11 0.0134 0.0023

Uranus 88821-08-09 17:03 G 34162485.02 34162485.21 34162485.40 0.0134 0.0003

Uranus 88821-11-05 23:46 G 34162573.31 34162573.49 34162573.67 0.0134 0.0028

Uranus 88822-02-02 06:29 G 34162661.60 34162661.77 34162661.94 0.0134 0.0054

Uranus 88822-05-01 12:58 G 34162749.90 34162750.04 34162750.20 0.0134 0.0079

Uranus 88822-07-28 19:27 G 34162838.21 34162838.31 34162838.44 0.0134 0.0105

Uranus 88822-10-25 02:10 G 34162926.55 34162926.59 34162926.65 0.0134 0.0129

Venus 88826-07-09 23:03 G 34164280.37 34164280.46 34164280.55 0.3622 0.1916

Jupiter 88826-07-10 19:41 G 34164281.19 34164281.32 34164281.45 0.0513 0.0040

Saturn 88827-09-23 21:07 G 34164721.28 34164721.38 34164721.48 0.0263 0.0172

Saturn 88827-12-21 06:58 G 34164809.67 34164809.79 34164809.92 0.0263 0.0067

Saturn 88828-03-18 17:03 G 34164898.08 34164898.21 34164898.34 0.0262 0.0039

Saturn 88828-06-15 03:07 G 34164986.52 34164986.63 34164986.74 0.0262 0.0144

Mars 88828-09-08 09:36 G 34165071.80 34165071.90 34165072.00 0.1592 0.0797

Saturn 88828-09-11 13:12 G 34165075.02 34165075.05 34165075.09 0.0261 0.0250

Mars 88830-08-14 11:03 G 34165776.85 34165776.96 34165777.07 0.1598 0.0604

Moon 88831-04-02 22:34 G 34166008.29 34166008.44 34166008.59 0.2698 0.0412

Earth 88831-04-02 23:03 G 34166008.32 34166008.46 34166008.61 0.2705 0.0477 *

Jupiter 88832-09-05 22:05 G 34166530.25 34166530.42 34166530.60 0.0513 0.0142

Mars 88833-05-28 22:48 G 34166795.36 34166795.45 34166795.55 0.1937 0.1569

Moon 88833-10-04 12:58 G 34166923.99 34166924.04 34166924.09 0.2621 0.2367

Earth 88833-10-04 13:12 G 34166924.02 34166924.05 34166924.09 0.2627 0.2460 *

Mars 88838-01-29 21:22 G 34168502.31 34168502.39 34168502.47 0.1591 0.1132

Jupiter 88838-04-29 00:29 G 34168591.40 34168591.52 34168591.65 0.0513 0.0124

Mars 88840-01-04 22:34 G 34169207.32 34169207.44 34169207.56 0.1596 0.0255

Earth 88840-09-27 11:17 G 34169473.88 34169473.97 34169474.07 0.2628 0.1382

Moon 88840-09-27 12:00 G 34169473.90 34169474.00 34169474.10 0.2631 0.1230 *

Mars 88842-10-18 15:51 G 34170225.00 34170225.16 34170225.33 0.1940 0.0367

Saturn 88843-07-11 02:53 G 34170490.46 34170490.62 34170490.79 0.0298 0.0135

Saturn 88843-10-08 04:19 G 34170579.51 34170579.68 34170579.85 0.0299 0.0082

Saturn 88844-01-05 05:03 G 34170668.70 34170668.71 34170668.74 0.0300 0.0298

Jupiter 88844-06-24 19:55 G 34170840.21 34170840.33 34170840.45 0.0513 0.0376

Venus 88847-02-15 17:46 G 34171806.19 34171806.24 34171806.28 0.3750 0.3572

Mars 88847-06-22 09:07 G 34171932.83 34171932.88 34171932.92 0.1590 0.1461

Mars 88849-05-27 10:05 G 34172637.81 34172637.92 34172638.04 0.1594 0.0100

Jupiter 88850-02-15 04:34 G 34172901.58 34172901.69 34172901.79 0.0513 0.0302

Jupiter 88850-05-15 09:36 G 34172990.81 34172990.90 34172990.99 0.0511 0.0378

Mars 88851-05-02 12:15 G 34173342.95 34173343.01 34173343.07 0.1602 0.1346

Mars 88852-03-09 07:55 G 34173654.69 34173654.83 34173654.98 0.1942 0.0899

Earth 88853-09-30 05:31 G 34174224.62 34174224.73 34174224.85 0.2628 0.0046

Moon 88853-09-30 06:15 G 34174224.64 34174224.76 34174224.87 0.2624 0.0053 *

Jupiter 88856-07-12 04:05 G 34175240.55 34175240.67 34175240.78 0.0515 0.0386

Saturn 88857-02-09 23:17 G 34175453.40 34175453.47 34175453.56 0.0264 0.0209

Saturn 88857-05-09 09:22 G 34175541.77 34175541.89 34175542.01 0.0264 0.0103

Saturn 88857-08-05 19:27 G 34175630.17 34175630.31 34175630.44 0.0263 0.0006

Saturn 88857-11-02 05:17 G 34175718.60 34175718.72 34175718.85 0.0263 0.0109

Saturn 88858-01-29 15:22 G 34175807.07 34175807.14 34175807.22 0.0262 0.0215

Mars 88858-10-17 21:51 G 34176068.29 34176068.41 34176068.52 0.1593 0.0434

Mars 88860-09-21 23:46 G 34176773.39 34176773.49 34176773.58 0.1599 0.0987

Jupiter 88861-12-04 08:53 G 34177211.83 34177211.87 34177211.93 0.0514 0.0469

Jupiter 88862-03-03 13:55 G 34177300.96 34177301.08 34177301.20 0.0512 0.0209

Uranus 88862-08-25 11:17 G 34177475.95 34177475.97 34177476.00 0.0144 0.0141

Uranus 88862-11-21 14:53 G 34177564.06 34177564.12 34177564.21 0.0144 0.0119

Uranus 88863-02-17 18:58 G 34177652.19 34177652.29 34177652.38 0.0144 0.0096

Uranus 88863-05-16 22:34 G 34177740.33 34177740.44 34177740.55 0.0144 0.0074

Uranus 88863-08-13 02:10 G 34177828.47 34177828.59 34177828.72 0.0144 0.0052

Uranus 88863-11-09 06:00 G 34177916.62 34177916.75 34177916.88 0.0144 0.0029

Uranus 88864-02-05 09:51 G 34178004.78 34178004.91 34178005.05 0.0144 0.0006

Earth 88864-03-31 00:29 G 34178059.41 34178059.52 34178059.63 0.2705 0.1738

Moon 88864-03-31 00:43 G 34178059.41 34178059.53 34178059.65 0.2698 0.1621 *

Uranus 88864-05-03 13:41 G 34178092.93 34178093.07 34178093.20 0.0144 0.0017

Uranus 88864-07-30 17:17 G 34178181.10 34178181.22 34178181.36 0.0144 0.0040

Uranus 88864-10-26 21:07 G 34178269.27 34178269.38 34178269.51 0.0144 0.0063

Uranus 88865-01-23 00:58 G 34178357.44 34178357.54 34178357.66 0.0144 0.0086

Uranus 88865-04-21 04:48 G 34178445.62 34178445.70 34178445.80 0.0144 0.0109

Uranus 88865-07-18 08:53 G 34178533.82 34178533.87 34178533.92 0.0144 0.0132

Earth 88866-10-02 23:46 G 34178975.40 34178975.49 34178975.59 0.2627 0.1351

Moon 88866-10-03 00:00 G 34178975.41 34178975.50 34178975.60 0.2621 0.1377 *

Mars 88868-03-09 09:22 G 34179498.79 34179498.89 34179499.00 0.1592 0.0770

Jupiter 88868-04-30 00:58 G 34179550.37 34179550.54 34179550.71 0.0514 0.0139

Mars 88870-02-12 11:03 G 34180203.85 34180203.96 34180204.07 0.1598 0.0634

Venus 88872-01-15 14:10 G 34180906.00 34180906.09 34180906.18 0.3623 0.1540

Saturn 88872-11-26 23:46 G 34181222.37 34181222.49 34181222.63 0.0299 0.0209

Mars 88872-11-26 23:46 G 34181222.41 34181222.49 34181222.58 0.1937 0.1646 *

Saturn 88873-02-24 01:27 G 34181311.37 34181311.56 34181311.74 0.0299 0.0011

Saturn 88873-05-24 02:24 G 34181400.48 34181400.60 34181400.72 0.0300 0.0225

Earth 88873-09-25 22:19 G 34181525.39 34181525.43 34181525.46 0.2629 0.2443

Moon 88873-09-25 22:48 G 34181525.40 34181525.45 34181525.50 0.2634 0.2319 *

Jupiter 88873-12-20 18:29 G 34181611.14 34181611.27 34181611.40 0.0512 0.0044

Moon 88877-04-03 04:48 G 34182810.56 34182810.70 34182810.84 0.2699 0.0841

Earth 88877-04-03 05:31 G 34182810.59 34182810.73 34182810.87 0.2705 0.0971 *

Mars 88877-07-30 21:22 G 34182929.30 34182929.39 34182929.47 0.1591 0.1101

Venus 88877-07-31 05:17 G 34182929.62 34182929.72 34182929.82 0.3622 0.0575

Mars 88879-07-05 22:34 G 34183634.32 34183634.44 34183634.56 0.1596 0.0285

Jupiter 88880-02-16 21:51 G 34183860.23 34183860.41 34183860.59 0.0513 0.0109

Mars 88882-04-18 16:48 G 34184652.04 34184652.20 34184652.36 0.1940 0.0442

Venus 88883-02-13 20:24 G 34184953.28 34184953.35 34184953.41 0.3622 0.2706

Jupiter 88885-10-08 23:17 G 34185921.34 34185921.47 34185921.59 0.0513 0.0117

Saturn 88886-06-30 01:41 G 34186185.53 34186185.57 34186185.62 0.0264 0.0243

Saturn 88886-09-26 11:46 G 34186273.88 34186273.99 34186274.10 0.0263 0.0138

Earth 88886-09-28 16:19 G 34186276.08 34186276.18 34186276.28 0.2628 0.1110

Moon 88886-09-28 17:03 G 34186276.10 34186276.21 34186276.31 0.2629 0.1078 *

Mars 88886-12-21 09:07 G 34186359.83 34186359.88 34186359.93 0.1590 0.1428

Saturn 88886-12-23 21:36 G 34186362.27 34186362.40 34186362.54 0.0263 0.0033

Saturn 88887-03-22 07:41 G 34186450.69 34186450.82 34186450.95 0.0262 0.0074

Saturn 88887-06-18 17:46 G 34186539.15 34186539.24 34186539.34 0.0262 0.0180

Mars 88888-11-25 10:05 G 34187064.81 34187064.92 34187065.04 0.1594 0.0074

Mars 88890-10-31 12:15 G 34187769.95 34187770.01 34187770.07 0.1602 0.1379

Mars 88891-09-08 09:07 G 34188081.73 34188081.88 34188082.03 0.1942 0.0808

Jupiter 88891-12-05 18:29 G 34188170.14 34188170.27 34188170.40 0.0513 0.0360

Neptune 88892-11-23 06:00 G 34188523.71 34188523.75 34188523.83 0.0090 0.0085

Neptune 88893-02-19 09:36 G 34188611.81 34188611.90 34188612.02 0.0090 0.0074

Neptune 88893-05-18 13:12 G 34188699.93 34188700.05 34188700.19 0.0090 0.0063

Neptune 88893-08-14 16:48 G 34188788.05 34188788.20 34188788.36 0.0090 0.0052

Neptune 88893-11-10 19:55 G 34188876.18 34188876.33 34188876.51 0.0090 0.0042

Neptune 88894-02-06 23:31 G 34188964.31 34188964.48 34188964.67 0.0090 0.0031

Neptune 88894-05-06 03:07 G 34189052.45 34189052.63 34189052.81 0.0090 0.0020

Neptune 88894-08-02 06:29 G 34189140.59 34189140.77 34189140.96 0.0090 0.0009

Neptune 88894-10-29 09:51 G 34189228.73 34189228.91 34189229.10 0.0090 0.0002

Neptune 88895-01-25 13:12 G 34189316.87 34189317.05 34189317.24 0.0090 0.0012

Neptune 88895-04-23 16:19 G 34189405.01 34189405.18 34189405.37 0.0090 0.0023

Neptune 88895-07-20 19:55 G 34189493.16 34189493.33 34189493.50 0.0090 0.0033

Neptune 88895-10-16 23:03 G 34189581.31 34189581.46 34189581.63 0.0090 0.0044

Neptune 88896-01-13 02:24 G 34189669.46 34189669.60 34189669.76 0.0090 0.0054

Neptune 88896-04-10 05:31 G 34189757.62 34189757.73 34189757.87 0.0090 0.0065

Neptune 88896-07-07 08:53 G 34189845.78 34189845.87 34189845.98 0.0090 0.0075

Neptune 88896-10-03 12:15 G 34189933.96 34189934.01 34189934.07 0.0090 0.0085

Jupiter 88897-07-28 04:05 G 34190231.56 34190231.67 34190231.77 0.0514 0.0277

Jupiter 88897-10-25 09:07 G 34190320.80 34190320.88 34190320.96 0.0511 0.0404

Mars 88898-04-17 21:51 G 34190495.29 34190495.41 34190495.52 0.1593 0.0402

Earth 88899-10-01 10:34 G 34191026.82 34191026.94 34191027.05 0.2628 0.0259

Moon 88899-10-01 11:03 G 34191026.85 34191026.96 34191027.07 0.2623 0.0380 *

Mars 88900-03-23 23:46 G 34191200.40 34191200.49 34191200.58 0.1599 0.1021

Saturn 88902-04-16 18:43 G 34191954.27 34191954.28 34191954.29 0.0298 0.0297

Saturn 88902-07-14 20:24 G 34192043.17 34192043.35 34192043.52 0.0298 0.0078

Saturn 88902-10-11 21:22 G 34192132.24 34192132.39 34192132.56 0.0299 0.0139

Venus 88903-09-23 20:24 G 34192479.20 34192479.35 34192479.51 0.3750 0.0712

Jupiter 88903-12-24 02:39 G 34192570.50 34192570.61 34192570.72 0.0515 0.0401

Uranus 88904-06-15 14:39 G 34192745.03 34192745.11 34192745.22 0.0134 0.0116

Uranus 88904-09-11 21:36 G 34192833.27 34192833.40 34192833.55 0.0134 0.0090

Uranus 88904-12-09 04:48 G 34192921.54 34192921.70 34192921.87 0.0134 0.0064

Uranus 88905-03-07 11:31 G 34193009.81 34193009.98 34193010.17 0.0134 0.0038

Uranus 88905-06-03 18:29 G 34193098.08 34193098.27 34193098.46 0.0134 0.0012

Uranus 88905-08-31 01:12 G 34193186.37 34193186.55 34193186.74 0.0134 0.0014

Uranus 88905-11-27 07:55 G 34193274.66 34193274.83 34193275.01 0.0134 0.0039

Uranus 88906-02-23 14:24 G 34193362.95 34193363.10 34193363.28 0.0134 0.0065

Uranus 88906-05-22 21:07 G 34193451.25 34193451.38 34193451.53 0.0134 0.0090

Uranus 88906-08-19 03:36 G 34193539.57 34193539.65 34193539.76 0.0134 0.0116

Mars 88907-09-09 09:22 G 34193925.79 34193925.89 34193926.00 0.1591 0.0739

Jupiter 88909-05-17 08:10 G 34194541.78 34194541.84 34194541.90 0.0514 0.0453

Mars 88909-08-14 11:03 G 34194630.85 34194630.96 34194631.07 0.1597 0.0666

Jupiter 88909-08-14 12:58 G 34194630.93 34194631.04 34194631.16 0.0511 0.0225 *

Moon 88910-04-02 06:43 G 34194861.65 34194861.78 34194861.92 0.2697 0.1328

Earth 88910-04-02 06:58 G 34194861.65 34194861.79 34194861.92 0.2705 0.1221 *

Mars 88912-05-29 00:29 G 34195649.45 34195649.52 34195649.59 0.1936 0.1712

Moon 88912-10-04 04:48 G 34195777.61 34195777.70 34195777.79 0.2621 0.1599

Earth 88912-10-04 04:48 G 34195777.61 34195777.70 34195777.79 0.2627 0.1624 *

Jupiter 88915-10-12 00:15 G 34196880.34 34196880.51 34196880.68 0.0514 0.0166

Saturn 88916-02-14 13:55 G 34197005.99 34197006.08 34197006.19 0.0264 0.0175

Saturn 88916-05-13 00:00 G 34197094.37 34197094.50 34197094.63 0.0264 0.0069

Saturn 88916-08-09 10:05 G 34197182.79 34197182.92 34197183.05 0.0263 0.0038

Saturn 88916-11-05 20:10 G 34197271.23 34197271.34 34197271.45 0.0263 0.0144

Mars 88917-01-29 21:07 G 34197356.30 34197356.38 34197356.47 0.1591 0.1070

Saturn 88917-02-02 06:15 G 34197359.73 34197359.76 34197359.80 0.0262 0.0251

Mars 88919-01-04 22:34 G 34198061.32 34198061.44 34198061.55 0.1596 0.0316

Earth 88919-09-28 03:07 G 34198327.57 34198327.63 34198327.69 0.2629 0.2177

Moon 88919-09-28 03:36 G 34198327.59 34198327.65 34198327.71 0.2634 0.2160 *

Jupiter 88921-06-02 17:31 G 34198941.10 34198941.23 34198941.36 0.0512 0.0057

Mars 88921-10-18 17:17 G 34199079.07 34199079.22 34199079.38 0.1940 0.0510

Venus 88923-02-06 20:24 G 34199555.29 34199555.35 34199555.42 0.3623 0.2860

Moon 88923-04-05 10:48 G 34199612.83 34199612.95 34199613.08 0.2700 0.1420

Earth 88923-04-05 11:46 G 34199612.87 34199612.99 34199613.11 0.2705 0.1461 *

Mars 88926-06-22 08:53 G 34200786.82 34200786.87 34200786.93 0.1590 0.1399

Jupiter 88927-07-30 21:07 G 34201190.20 34201190.38 34201190.56 0.0513 0.0083

Mars 88928-05-27 10:05 G 34201491.80 34201491.92 34201492.04 0.1594 0.0049

Venus 88928-08-22 11:31 G 34201578.88 34201578.98 34201579.08 0.3622 0.0756

Mars 88930-05-02 12:15 G 34202196.96 34202197.01 34202197.06 0.1602 0.1407

Mars 88931-03-10 10:05 G 34202508.77 34202508.92 34202509.08 0.1942 0.0723

Saturn 88931-12-01 18:00 G 34202775.09 34202775.25 34202775.41 0.0298 0.0147

Saturn 88932-02-28 19:12 G 34202864.13 34202864.30 34202864.48 0.0299 0.0071

Saturn 88932-05-27 20:10 G 34202953.29 34202953.34 34202953.39 0.0300 0.0286

Earth 88932-09-29 21:07 G 34203078.27 34203078.38 34203078.49 0.2628 0.0844

Moon 88932-09-29 21:51 G 34203078.30 34203078.41 34203078.52 0.2627 0.0684 *

Jupiter 88933-03-21 21:51 G 34203251.29 34203251.41 34203251.54 0.0513 0.0112

Venus 88934-03-08 02:39 G 34203602.51 34203602.61 34203602.70 0.3622 0.1362

Mars 88937-10-17 21:36 G 34204922.29 34204922.40 34204922.52 0.1593 0.0376

Jupiter 88939-05-18 18:00 G 34205500.11 34205500.25 34205500.39 0.0513 0.0332

Venus 88939-09-21 17:46 G 34205626.22 34205626.24 34205626.26 0.3622 0.3503

Mars 88939-09-22 23:46 G 34205627.40 34205627.49 34205627.58 0.1599 0.1053

Jupiter 88945-01-08 02:39 G 34207561.50 34207561.61 34207561.72 0.0514 0.0273

Jupiter 88945-04-07 07:41 G 34207650.75 34207650.82 34207650.90 0.0511 0.0408

Saturn 88945-07-03 16:34 G 34207738.12 34207738.19 34207738.28 0.0264 0.0207

Saturn 88945-09-30 02:39 G 34207826.49 34207826.61 34207826.73 0.0263 0.0101

Earth 88945-10-02 15:22 G 34207829.03 34207829.14 34207829.25 0.2628 0.0518

Moon 88945-10-02 15:51 G 34207829.05 34207829.16 34207829.28 0.2623 0.0540 *

Saturn 88945-12-27 12:43 G 34207914.89 34207915.03 34207915.16 0.0263 0.0006

Saturn 88946-03-25 22:48 G 34208003.33 34208003.45 34208003.57 0.0262 0.0111

Saturn 88946-06-22 08:39 G 34208091.80 34208091.86 34208091.94 0.0262 0.0218

Uranus 88946-09-15 18:43 G 34208177.25 34208177.28 34208177.34 0.0144 0.0134

Uranus 88946-12-12 22:48 G 34208265.36 34208265.45 34208265.53 0.0144 0.0111

Mars 88947-03-10 09:22 G 34208352.79 34208352.89 34208353.00 0.1591 0.0706

Uranus 88947-03-11 02:24 G 34208353.50 34208353.60 34208353.71 0.0144 0.0089

Uranus 88947-06-07 06:00 G 34208441.64 34208441.75 34208441.87 0.0144 0.0067

Uranus 88947-09-03 09:51 G 34208529.78 34208529.91 34208530.04 0.0144 0.0044

Uranus 88947-11-30 13:41 G 34208617.93 34208618.07 34208618.20 0.0144 0.0022

Uranus 88948-02-26 17:17 G 34208706.09 34208706.22 34208706.36 0.0144 0.0005

Uranus 88948-05-24 21:07 G 34208794.25 34208794.38 34208794.52 0.0144 0.0024

Uranus 88948-08-21 00:58 G 34208882.41 34208882.54 34208882.67 0.0144 0.0047

Uranus 88948-11-17 04:48 G 34208970.58 34208970.70 34208970.82 0.0144 0.0070

Mars 88949-02-12 11:03 G 34209057.85 34209057.96 34209058.07 0.1597 0.0697

Uranus 88949-02-13 08:39 G 34209058.76 34209058.86 34209058.96 0.0144 0.0093

Uranus 88949-05-12 12:29 G 34209146.95 34209147.02 34209147.10 0.0144 0.0116

Uranus 88949-08-08 16:34 G 34209235.16 34209235.19 34209235.22 0.0144 0.0140

Pluto 88950-03-28 13:55 G 34209466.99 34209467.08 34209467.17 0.0061 0.0052

Pluto 88950-06-24 14:39 G 34209555.00 34209555.11 34209555.26 0.0061 0.0042

Pluto 88950-09-20 15:36 G 34209643.02 34209643.15 34209643.32 0.0062 0.0032

Pluto 88950-12-17 17:03 G 34209731.05 34209731.21 34209731.38 0.0062 0.0021

Pluto 88951-03-15 18:15 G 34209819.08 34209819.26 34209819.43 0.0062 0.0010

Jupiter 88951-06-05 00:58 G 34209900.44 34209900.54 34209900.65 0.0515 0.0410

Pluto 88951-06-11 19:12 G 34209907.12 34209907.30 34209907.48 0.0062 0.0001

Pluto 88951-09-07 20:10 G 34209995.17 34209995.34 34209995.52 0.0062 0.0011

Mars 88951-11-28 01:12 G 34210076.49 34210076.55 34210076.61 0.1937 0.1786

Pluto 88951-12-04 21:07 G 34210083.23 34210083.38 34210083.56 0.0062 0.0022

Pluto 88952-03-01 22:19 G 34210171.28 34210171.43 34210171.59 0.0062 0.0032

Pluto 88952-05-28 23:03 G 34210259.35 34210259.46 34210259.61 0.0062 0.0043

Pluto 88952-08-25 00:29 G 34210347.44 34210347.52 34210347.61 0.0062 0.0053

Moon 88956-04-02 13:12 G 34211663.90 34211664.05 34211664.20 0.2697 0.0612

Earth 88956-04-02 13:27 G 34211663.91 34211664.06 34211664.20 0.2705 0.0707 *

Mars 88956-07-30 21:07 G 34211783.30 34211783.38 34211783.47 0.1591 0.1040

Jupiter 88956-10-27 07:27 G 34211871.74 34211871.81 34211871.87 0.0514 0.0434

Jupiter 88957-01-24 12:29 G 34211960.90 34211961.02 34211961.13 0.0512 0.0246

Mars 88958-07-05 22:34 G 34212488.32 34212488.44 34212488.56 0.1596 0.0349

Moon 88958-10-05 09:36 G 34212579.82 34212579.90 34212579.97 0.2620 0.1928

Earth 88958-10-05 09:36 G 34212579.82 34212579.90 34212579.98 0.2627 0.1900 *

Venus 88960-04-29 23:03 G 34213152.33 34213152.46 34213152.59 0.3751 0.2102

Mars 88961-04-18 18:29 G 34213506.11 34213506.27 34213506.43 0.1940 0.0592

Saturn 88961-04-19 13:27 G 34213506.95 34213507.06 34213507.18 0.0298 0.0230

Saturn 88961-07-17 14:53 G 34213595.94 34213596.12 34213596.30 0.0299 0.0012

Saturn 88961-10-14 16:05 G 34213685.04 34213685.17 34213685.30 0.0299 0.0205

Jupiter 88963-03-23 22:34 G 34214210.28 34214210.44 34214210.62 0.0514 0.0176

Earth 88965-09-28 07:55 G 34215129.75 34215129.83 34215129.91 0.2629 0.1913

Moon 88965-09-28 08:24 G 34215129.77 34215129.85 34215129.94 0.2633 0.1802 *

Mars 88965-12-21 08:53 G 34215213.81 34215213.87 34215213.93 0.1590 0.1370

Mars 88967-11-26 10:05 G 34215918.80 34215918.92 34215919.04 0.1594 0.0006

Jupiter 88968-11-12 16:19 G 34216271.06 34216271.18 34216271.31 0.0512 0.0070

Moon 88969-04-05 17:03 G 34216415.10 34216415.21 34216415.32 0.2701 0.1727

Earth 88969-04-05 18:00 G 34216415.15 34216415.25 34216415.35 0.2705 0.1968 *

Mars 88969-10-31 12:15 G 34216623.96 34216624.01 34216624.06 0.1601 0.1443

Mars 88970-09-08 10:34 G 34216935.79 34216935.94 34216936.10 0.1942 0.0662

Neptune 88974-03-01 23:31 G 34218206.44 34218206.48 34218206.53 0.0088 0.0082

Neptune 88974-05-29 00:58 G 34218294.47 34218294.54 34218294.61 0.0088 0.0075

Neptune 88974-08-25 02:10 G 34218382.51 34218382.59 34218382.68 0.0088 0.0068

Saturn 88974-11-20 19:12 G 34218470.25 34218470.30 34218470.35 0.0265 0.0242

Neptune 88974-11-21 03:36 G 34218470.55 34218470.65 34218470.75 0.0088 0.0061

Jupiter 88975-01-09 19:55 G 34218520.15 34218520.33 34218520.51 0.0514 0.0066

Neptune 88975-02-17 04:48 G 34218558.60 34218558.70 34218558.81 0.0088 0.0054

Saturn 88975-02-17 05:03 G 34218558.60 34218558.71 34218558.83 0.0264 0.0136 *

Neptune 88975-05-16 06:15 G 34218646.65 34218646.76 34218646.88 0.0088 0.0047

Saturn 88975-05-16 15:07 G 34218647.00 34218647.13 34218647.26 0.0264 0.0029

Neptune 88975-08-12 07:27 G 34218734.70 34218734.81 34218734.94 0.0088 0.0040

Saturn 88975-08-13 01:12 G 34218735.42 34218735.55 34218735.68 0.0263 0.0077

Neptune 88975-11-08 08:53 G 34218822.75 34218822.87 34218823.00 0.0088 0.0032

Saturn 88975-11-09 11:17 G 34218823.88 34218823.97 34218824.07 0.0263 0.0184

Neptune 88976-02-04 10:05 G 34218910.80 34218910.92 34218911.06 0.0088 0.0026

Neptune 88976-05-02 11:46 G 34218998.85 34218998.99 34218999.12 0.0088 0.0018

Neptune 88976-07-29 12:58 G 34219086.91 34219087.04 34219087.18 0.0088 0.0011

Neptune 88976-10-25 14:24 G 34219174.96 34219175.10 34219175.24 0.0088 0.0004

Neptune 88977-01-21 15:51 G 34219263.02 34219263.16 34219263.30 0.0088 0.0004

Mars 88977-04-17 21:36 G 34219349.29 34219349.40 34219349.52 0.1593 0.0343

Neptune 88977-04-19 17:17 G 34219351.08 34219351.22 34219351.35 0.0088 0.0011

Neptune 88977-07-16 18:29 G 34219439.14 34219439.27 34219439.41 0.0088 0.0018

Neptune 88977-10-12 19:55 G 34219527.20 34219527.33 34219527.46 0.0088 0.0025

Neptune 88978-01-08 21:22 G 34219615.26 34219615.39 34219615.52 0.0088 0.0033

Neptune 88978-04-06 22:48 G 34219703.33 34219703.45 34219703.57 0.0088 0.0040

Neptune 88978-07-04 00:00 G 34219791.39 34219791.50 34219791.62 0.0088 0.0048

Neptune 88978-09-30 01:27 G 34219879.46 34219879.56 34219879.67 0.0088 0.0055

Earth 88978-10-01 02:10 G 34219880.47 34219880.59 34219880.70 0.2628 0.0580

Moon 88978-10-01 02:53 G 34219880.50 34219880.62 34219880.73 0.2626 0.0535 *

Neptune 88978-12-27 02:53 G 34219967.53 34219967.62 34219967.72 0.0088 0.0062

Mars 88979-03-23 23:31 G 34220054.40 34220054.48 34220054.57 0.1599 0.1081

Neptune 88979-03-25 04:05 G 34220055.60 34220055.67 34220055.77 0.0088 0.0070

Neptune 88979-06-21 05:46 G 34220143.68 34220143.74 34220143.81 0.0088 0.0077

Venus 88979-09-13 17:46 G 34220228.16 34220228.24 34220228.32 0.3623 0.2079

Neptune 88979-09-17 07:12 G 34220231.77 34220231.80 34220231.84 0.0088 0.0084

Mars 88980-01-29 02:39 G 34220365.60 34220365.61 34220365.62 0.1945 0.1936

Jupiter 88980-08-31 20:53 G 34220581.24 34220581.37 34220581.49 0.0512 0.0101

Venus 88985-03-29 08:53 G 34222251.77 34222251.87 34222251.97 0.3622 0.0060

Mars 88986-09-08 09:22 G 34222779.79 34222779.89 34222780.00 0.1592 0.0675

Jupiter 88986-10-28 16:48 G 34222830.05 34222830.20 34222830.34 0.0513 0.0314

Uranus 88988-04-08 15:36 G 34223358.14 34223358.15 34223358.20 0.0134 0.0133

Uranus 88988-07-05 22:48 G 34223446.34 34223446.45 34223446.57 0.0134 0.0106

Mars 88988-08-13 11:03 G 34223484.85 34223484.96 34223485.06 0.1597 0.0730

Uranus 88988-10-02 05:46 G 34223534.60 34223534.74 34223534.90 0.0134 0.0080

Uranus 88988-12-29 12:43 G 34223622.86 34223623.03 34223623.21 0.0134 0.0054

Uranus 88989-03-27 19:41 G 34223711.13 34223711.32 34223711.50 0.0134 0.0028

Uranus 88989-06-24 02:24 G 34223799.42 34223799.60 34223799.79 0.0134 0.0003

Uranus 88989-09-20 09:07 G 34223887.70 34223887.88 34223888.07 0.0134 0.0024

Uranus 88989-12-17 15:51 G 34223975.99 34223976.16 34223976.34 0.0134 0.0050

Uranus 88990-03-15 22:19 G 34224064.29 34224064.43 34224064.60 0.0134 0.0075

Uranus 88990-06-12 05:03 G 34224152.60 34224152.71 34224152.84 0.0134 0.0100

Saturn 88990-09-06 11:46 G 34224238.96 34224238.99 34224239.03 0.0298 0.0291

Uranus 88990-09-08 11:31 G 34224240.93 34224240.98 34224241.06 0.0134 0.0125

Venus 88990-10-13 00:00 G 34224275.41 34224275.50 34224275.58 0.3622 0.2151

Saturn 88990-12-04 13:27 G 34224327.88 34224328.06 34224328.24 0.0299 0.0073

Saturn 88991-03-03 14:24 G 34224416.95 34224417.10 34224417.27 0.0299 0.0144

Mars 88991-05-29 02:24 G 34224503.56 34224503.60 34224503.64 0.1937 0.1870

Earth 88991-10-03 20:10 G 34224631.23 34224631.34 34224631.45 0.2627 0.0793

Moon 88991-10-03 20:39 G 34224631.25 34224631.36 34224631.47 0.2623 0.0908 *

Jupiter 88992-06-20 01:12 G 34224891.44 34224891.55 34224891.66 0.0513 0.0270

Jupiter 88992-09-17 06:15 G 34224980.68 34224980.76 34224980.84 0.0511 0.0410

Mars 88996-01-29 21:07 G 34226210.29 34226210.38 34226210.47 0.1591 0.1008

Mars 88998-01-03 22:34 G 34226915.32 34226915.44 34226915.55 0.1596 0.0379

Jupiter 88998-11-15 00:00 G 34227230.40 34227230.50 34227230.60 0.0515 0.0431

Mars 89000-10-18 19:12 G 34227933.15 34227933.30 34227933.45 0.1940 0.0667

90TH MILLENNIUM CE

This is a list of transits of Mercury in the 90th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	89002-04-04 19:27	G	34228466.16	34228466.31	34228466.46	0.2698	0.0324	
Earth	89002-04-04 19:41	G	34228466.17	34228466.32	34228466.47	0.2705	0.0199	*
Jupiter	89004-04-09 05:46	G	34229201.67	34229201.74	34229201.81	0.0514	0.0434	
Saturn	89004-07-07 07:55	G	34229290.73	34229290.83	34229290.94	0.0264	0.0166	
Jupiter	89004-07-07 10:48	G	34229290.83	34229290.95	34229291.06	0.0512	0.0245	*
Saturn	89004-10-03 18:00	G	34229379.12	34229379.25	34229379.38	0.0263	0.0059	
Moon	89004-10-06 14:24	G	34229382.03	34229382.10	34229382.17	0.2620	0.2092	
Earth	89004-10-06 14:24	G	34229382.04	34229382.10	34229382.17	0.2627	0.2180	*
Saturn	89004-12-31 04:05	G	34229467.54	34229467.67	34229467.80	0.0263	0.0047	
Saturn	89005-03-29 14:10	G	34229555.98	34229556.09	34229556.20	0.0262	0.0154	
Mars	89005-06-22 08:53	G	34229640.81	34229640.87	34229640.93	0.1590	0.1336	
Saturn	89005-06-26 00:15	G	34229644.50	34229644.51	34229644.52	0.0262	0.0261	
Mars	89007-05-28 10:05	G	34230345.80	34230345.92	34230346.04	0.1594	0.0038	
Mars	89009-05-02 12:15	G	34231050.97	34231051.01	34231051.06	0.1601	0.1473	
Mars	89010-03-10 11:31	G	34231362.83	34231362.98	34231363.14	0.1943	0.0579	
Jupiter	89010-09-03 20:39	G	34231540.19	34231540.36	34231540.53	0.0514	0.0178	
Earth	89011-09-30 12:43	G	34231931.95	34231932.03	34231932.12	0.2629	0.1650	
Moon	89011-09-30 13:27	G	34231931.97	34231932.06	34231932.15	0.2631	0.1578	*
Moon	89015-04-07 23:03	G	34233217.40	34233217.46	34233217.53	0.2702	0.2395	
Earth	89015-04-08 00:29	G	34233217.46	34233217.52	34233217.58	0.2706	0.2460	*

Jupiter 89016-04-25 15:22 G 34233601.01 34233601.14 34233601.27 0.0512 0.0082

Mars 89016-10-17 21:36 G 34233776.29 34233776.40 34233776.52 0.1593 0.0311

Mars 89018-09-22 23:46 G 34234481.40 34234481.49 34234481.57 0.1599 0.1117

Mars 89019-07-31 03:36 G 34234792.60 34234792.65 34234792.70 0.1944 0.1853

Saturn 89020-04-23 09:51 G 34235059.76 34235059.91 34235060.08 0.0298 0.0147

Saturn 89020-07-21 11:17 G 34235148.80 34235148.97 34235149.15 0.0299 0.0071

Saturn 89020-10-18 12:15 G 34235237.96 34235238.01 34235238.06 0.0299 0.0286

Jupiter 89022-06-22 18:00 G 34235850.07 34235850.25 34235850.43 0.0514 0.0061

Earth 89024-10-02 06:58 G 34236682.68 34236682.79 34236682.90 0.2628 0.0304

Moon 89024-10-02 07:41 G 34236682.71 34236682.82 34236682.93 0.2626 0.0152 *

Mars 89026-03-10 09:22 G 34237206.78 34237206.89 34237207.00 0.1591 0.0647

Jupiter 89028-02-12 19:27 G 34237911.19 34237911.31 34237911.44 0.0512 0.0094

Mars 89028-02-13 11:03 G 34237911.86 34237911.96 34237912.06 0.1597 0.0760

Venus 89030-10-06 00:00 G 34238877.47 34238877.50 34238877.54 0.3623 0.3392

Uranus 89030-10-07 02:10 G 34238878.54 34238878.59 34238878.66 0.0144 0.0128

Mars 89030-11-28 02:39 G 34238930.60 34238930.61 34238930.63 0.1937 0.1928

Uranus 89031-01-03 06:00 G 34238966.66 34238966.75 34238966.84 0.0144 0.0105

Uranus 89031-04-01 09:36 G 34239054.80 34239054.90 34239055.01 0.0144 0.0083

Uranus 89031-06-28 13:27 G 34239142.94 34239143.06 34239143.18 0.0144 0.0061

Uranus 89031-09-24 17:17 G 34239231.09 34239231.22 34239231.35 0.0144 0.0038

Uranus 89031-12-21 20:53 G 34239319.24 34239319.37 34239319.51 0.0144 0.0016

Uranus 89032-03-19 00:43 G 34239407.39 34239407.53 34239407.66 0.0144 0.0007

Uranus 89032-06-15 04:34 G 34239495.55 34239495.69 34239495.82 0.0144 0.0030

Uranus 89032-09-11 08:10 G 34239583.72 34239583.84 34239583.97 0.0144 0.0053

Uranus 89032-12-08 12:00 G 34239671.89 34239672.00 34239672.12 0.0144 0.0076

Uranus 89033-03-06 15:51 G 34239760.07 34239760.16 34239760.26 0.0144 0.0099

Uranus 89033-06-02 19:41 G 34239848.26 34239848.32 34239848.40 0.0144 0.0122

Saturn 89033-11-24 10:34 G 34240022.86 34240022.94 34240023.03 0.0265 0.0200

Saturn 89034-02-20 20:39 G 34240111.24 34240111.36 34240111.49 0.0264 0.0093

Jupiter 89034-04-10 14:53 G 34240159.98 34240160.12 34240160.27 0.0513 0.0307

Saturn 89034-05-20 06:43 G 34240199.65 34240199.78 34240199.91 0.0264 0.0014

Saturn 89034-08-16 16:48 G 34240288.08 34240288.20 34240288.32 0.0263 0.0121

Saturn 89034-11-13 02:53 G 34240376.56 34240376.62 34240376.69 0.0263 0.0229

Earth 89035-04-02 20:53 G 34240517.30 34240517.37 34240517.43 0.2704 0.2440

Moon 89035-04-02 21:07 G 34240517.32 34240517.38 34240517.45 0.2697 0.2396 *

Mars 89035-07-31 21:07 G 34240637.29 34240637.38 34240637.47 0.1591 0.0977

Venus 89036-04-20 15:07 G 34240901.03 34240901.13 34240901.22 0.3622 0.1300

Mars 89037-07-05 22:34 G 34241342.32 34241342.44 34241342.55 0.1596 0.0411

Earth 89037-10-05 01:12 G 34241433.44 34241433.55 34241433.65 0.2627 0.1072

Moon 89037-10-05 01:27 G 34241433.45 34241433.56 34241433.66 0.2622 0.1045 *

Jupiter 89039-12-02 00:00 G 34242221.39 34242221.50 34242221.61 0.0513 0.0262

Jupiter 89040-02-29 04:48 G 34242310.63 34242310.70 34242310.78 0.0510 0.0416

Mars 89040-04-18 19:55 G 34242360.18 34242360.33 34242360.48 0.1940 0.0737

Venus 89041-11-04 06:15 G 34242924.66 34242924.76 34242924.86 0.3622 0.0819

Pluto 89042-07-31 07:55 G 34243193.76 34243193.83 34243193.93 0.0083 0.0066

Pluto 89042-10-27 09:22 G 34243281.78 34243281.89 34243282.02 0.0083 0.0046

Pluto 89043-01-23 11:03 G 34243369.82 34243369.96 34243370.09 0.0082 0.0025

Pluto 89043-04-21 12:15 G 34243457.87 34243458.01 34243458.16 0.0082 0.0005

Pluto 89043-07-18 13:41 G 34243545.93 34243546.07 34243546.21 0.0082 0.0016

Pluto 89043-10-14 14:53 G 34243634.00 34243634.12 34243634.26 0.0082 0.0036

Pluto 89044-01-10 16:19 G 34243722.08 34243722.18 34243722.29 0.0082 0.0056

Pluto 89044-04-07 17:31 G 34243810.19 34243810.23 34243810.29 0.0082 0.0076

Mars 89044-12-21 08:53 G 34244067.81 34244067.87 34244067.93 0.1590 0.1308

Jupiter 89046-04-27 22:05 G 34244560.34 34244560.42 34244560.52 0.0515 0.0441

Mars 89046-11-26 10:05 G 34244772.80 34244772.92 34244773.04 0.1594 0.0066

Venus 89047-05-20 21:07 G 34244948.33 34244948.38 34244948.44 0.3622 0.2935

Moon 89048-04-05 01:27 G 34245268.41 34245268.56 34245268.71 0.2699 0.0309

Earth 89048-04-05 01:55 G 34245268.44 34245268.58 34245268.73 0.2705 0.0314 *

Mars 89048-10-31 12:15 G 34245477.97 34245478.01 34245478.05 0.1602 0.1505

Mars 89049-09-08 12:43 G 34245789.87 34245790.03 34245790.19 0.1942 0.0487

Saturn 89049-09-10 08:53 G 34245791.74 34245791.87 34245792.01 0.0298 0.0203

Saturn 89049-12-08 10:19 G 34245880.75 34245880.93 34245881.12 0.0299 0.0016

Saturn 89050-03-07 11:17 G 34245969.86 34245969.97 34245970.09 0.0299 0.0231

Moon 89050-10-07 19:12 G 34246184.27 34246184.30 34246184.33 0.2620 0.2485

Earth 89050-10-07 19:27 G 34246184.27 34246184.31 34246184.35 0.2627 0.2458 *

Jupiter 89051-09-20 04:05 G 34246531.61 34246531.67 34246531.74 0.0514 0.0435

Jupiter 89051-12-18 09:07 G 34246620.77 34246620.88 34246621.00 0.0512 0.0244

Mars 89056-04-17 21:36 G 34248203.29 34248203.40 34248203.52 0.1593 0.0279

Neptune 89057-08-22 03:51 G 34248694.60 34248694.66 34248694.74 0.0090 0.0082

Earth 89057-09-30 17:46 G 34248734.14 34248734.24 34248734.33 0.2629 0.1379

Moon 89057-09-30 18:29 G 34248734.17 34248734.27 34248734.37 0.2630 0.1295 *

Neptune 89057-11-18 06:58 G 34248782.70 34248782.79 34248782.93 0.0090 0.0072

Jupiter 89058-02-13 19:12 G 34248870.13 34248870.30 34248870.46 0.0514 0.0192

Neptune 89058-02-14 10:34 G 34248870.82 34248870.94 34248871.10 0.0090 0.0061

Mars 89058-03-23 23:46 G 34248908.40 34248908.49 34248908.57 0.1599 0.1148

Neptune 89058-05-13 14:10 G 34248958.95 34248959.09 34248959.26 0.0090 0.0050

Neptune 89058-08-09 17:46 G 34249047.08 34249047.24 34249047.41 0.0090 0.0039

Neptune 89058-11-05 21:07 G 34249135.21 34249135.38 34249135.57 0.0090 0.0028

Mars 89059-01-29 04:19 G 34249219.62 34249219.68 34249219.75 0.1944 0.1778

Neptune 89059-02-02 00:29 G 34249223.35 34249223.52 34249223.71 0.0090 0.0018

Neptune 89059-05-01 04:05 G 34249311.48 34249311.67 34249311.86 0.0090 0.0007

Neptune 89059-07-28 07:27 G 34249399.63 34249399.81 34249400.00 0.0090 0.0004

Neptune 89059-10-24 10:48 G 34249487.77 34249487.95 34249488.14 0.0090 0.0015

Neptune 89060-01-20 14:10 G 34249575.91 34249576.09 34249576.27 0.0090 0.0025

Neptune 89060-04-17 17:17 G 34249664.06 34249664.22 34249664.40 0.0090 0.0036

Neptune 89060-07-14 20:53 G 34249752.21 34249752.37 34249752.53 0.0090 0.0046

Neptune 89060-10-11 00:00 G 34249840.37 34249840.50 34249840.65 0.0090 0.0057

Neptune 89061-01-07 03:22 G 34249928.53 34249928.64 34249928.77 0.0090 0.0067

Neptune 89061-04-05 06:29 G 34250016.69 34250016.77 34250016.88 0.0090 0.0078

Moon 89061-04-08 05:17 G 34250019.70 34250019.72 34250019.74 0.2702 0.2665

Neptune 89061-07-02 09:51 G 34250104.89 34250104.91 34250104.96 0.0090 0.0088

Saturn 89063-04-13 13:55 G 34250755.01 34250755.08 34250755.15 0.0265 0.0226

Saturn 89063-07-11 00:00 G 34250843.38 34250843.50 34250843.62 0.0264 0.0119

Jupiter 89063-10-06 13:41 G 34250930.94 34250931.07 34250931.20 0.0512 0.0077

Saturn 89063-10-07 09:51 G 34250931.78 34250931.91 34250932.05 0.0264 0.0016

Saturn 89064-01-03 19:55 G 34251020.21 34251020.33 34251020.46 0.0263 0.0095

Saturn 89064-04-01 06:15 G 34251108.67 34251108.76 34251108.84 0.0262 0.0201

Mars 89065-09-08 09:22 G 34251633.78 34251633.89 34251634.00 0.1591 0.0612

Mars 89067-08-14 11:03 G 34252338.86 34252338.96 34252339.06 0.1597 0.0792

Venus 89067-12-27 16:48 G 34252474.05 34252474.20 34252474.35 0.3751 0.1051

Jupiter 89069-12-02 15:22 G 34253179.97 34253180.14 34253180.32 0.0513 0.0067

Earth 89070-10-03 11:46 G 34253484.88 34253484.99 34253485.11 0.2628 0.0066

Moon 89070-10-03 12:29 G 34253484.91 34253485.02 34253485.14 0.2626 0.0054 *

Uranus 89072-04-29 23:46 G 34254059.42 34254059.49 34254059.58 0.0134 0.0122

Uranus 89072-07-27 06:43 G 34254147.66 34254147.78 34254147.92 0.0134 0.0096

Uranus 89072-10-23 13:41 G 34254235.92 34254236.07 34254236.24 0.0134 0.0070

Uranus 89073-01-19 20:39 G 34254324.19 34254324.36 34254324.54 0.0134 0.0043

Uranus 89073-04-18 03:36 G 34254412.46 34254412.65 34254412.84 0.0134 0.0017

Uranus 89073-07-15 10:19 G 34254500.75 34254500.93 34254501.12 0.0134 0.0009

Uranus 89073-10-11 17:03 G 34254589.03 34254589.21 34254589.40 0.0134 0.0034

Uranus 89074-01-07 23:46 G 34254677.33 34254677.49 34254677.66 0.0134 0.0059

Uranus 89074-04-06 06:29 G 34254765.63 34254765.77 34254765.92 0.0134 0.0085

Uranus 89074-07-03 12:43 G 34254853.95 34254854.03 34254854.15 0.0134 0.0111

Mars 89075-01-29 21:07 G 34255064.29 34255064.38 34255064.47 0.1590 0.0948

Jupiter 89075-07-25 18:15 G 34255241.13 34255241.26 34255241.39 0.0513 0.0087

Mars 89077-01-03 22:34 G 34255769.32 34255769.44 34255769.55 0.1595 0.0443

Saturn 89079-01-28 06:29 G 34256523.70 34256523.77 34256523.86 0.0297 0.0269

Saturn 89079-04-27 08:10 G 34256612.66 34256612.84 34256613.02 0.0298 0.0051

Saturn 89079-07-25 09:07 G 34256701.74 34256701.88 34256702.04 0.0299 0.0166

Mars 89079-10-18 20:53 G 34256787.22 34256787.37 34256787.52 0.1940 0.0817

Earth 89081-04-03 03:22 G 34257319.53 34257319.64 34257319.74 0.2704 0.1920

Moon 89081-04-03 03:36 G 34257319.54 34257319.65 34257319.76 0.2697 0.1865 *

Jupiter 89081-09-20 12:29 G 34257489.88 34257490.02 34257490.17 0.0513 0.0310

Earth 89083-10-06 06:00 G 34258235.65 34258235.75 34258235.85 0.2627 0.1341

Moon 89083-10-06 06:15 G 34258235.66 34258235.76 34258235.85 0.2621 0.1412 *

Mars 89084-06-21 08:53 G 34258494.80 34258494.87 34258494.93 0.1590 0.1278

Mars 89086-05-27 10:05 G 34259199.80 34259199.92 34259200.04 0.1594 0.0097

Venus 89087-05-12 21:22 G 34259550.32 34259550.39 34259550.46 0.3623 0.2620

Jupiter 89087-05-13 22:34 G 34259551.33 34259551.44 34259551.55 0.0513 0.0258

Jupiter 89087-08-11 03:36 G 34259640.57 34259640.65 34259640.72 0.0510 0.0420

Mars 89088-05-01 12:15 G 34259904.98 34259905.01 34259905.04 0.1601 0.1538

Mars 89089-03-09 13:12 G 34260216.89 34260217.05 34260217.21 0.1943 0.0433

Earth 89090-09-29 04:34 G 34260785.65 34260785.69 34260785.73 0.2629 0.2441

Moon 89090-09-29 05:03 G 34260785.67 34260785.71 34260785.75 0.2635 0.2443 *

Saturn 89092-08-30 16:48 G 34261487.17 34261487.20 34261487.23 0.0266 0.0258

Venus 89092-11-25 12:29 G 34261573.92 34261574.02 34261574.12 0.3622 0.0537

Saturn 89092-11-27 02:39 G 34261575.51 34261575.61 34261575.72 0.0265 0.0151

Saturn 89093-02-23 12:43 G 34261663.90 34261664.03 34261664.16 0.0264 0.0044

Saturn 89093-05-22 22:48 G 34261752.32 34261752.45 34261752.58 0.0264 0.0063

Saturn 89093-08-19 08:53 G 34261840.77 34261840.87 34261840.98 0.0263 0.0171

Jupiter 89093-10-07 19:55 G 34261890.24 34261890.33 34261890.42 0.0515 0.0440

Moon 89094-04-06 07:27 G 34262070.66 34262070.81 34262070.96 0.2700 0.0658

Earth 89094-04-06 08:24 G 34262070.70 34262070.85 34262070.99 0.2705 0.0811 *

Mars 89095-10-17 21:36 G 34262630.28 34262630.40 34262630.52 0.1593 0.0247

Mars 89097-09-21 23:31 G 34263335.40 34263335.48 34263335.56 0.1599 0.1176

Venus 89098-06-11 03:22 G 34263597.55 34263597.64 34263597.73 0.3622 0.1581

Mars 89098-07-30 05:31 G 34263646.65 34263646.73 34263646.81 0.1945 0.1691

Jupiter 89099-03-02 02:53 G 34263861.55 34263861.62 34263861.69 0.0513 0.0428

Jupiter 89099-05-30 07:41 G 34263950.71 34263950.82 34263950.94 0.0511 0.0248

Earth 89103-10-02 22:34 G 34265536.34 34265536.44 34265536.54 0.2628 0.1112

Moon 89103-10-02 23:17 G 34265536.37 34265536.47 34265536.58 0.2629 0.0981 *

Mars 89105-03-10 09:22 G 34266060.78 34266060.89 34266061.00 0.1591 0.0583

Jupiter 89105-07-27 16:48 G 34266200.03 34266200.20 34266200.37 0.0514 0.0191

Mars 89107-02-13 11:03 G 34266765.86 34266765.96 34266766.06 0.1597 0.0824

Saturn 89108-09-14 08:10 G 34267344.67 34267344.84 34267345.01 0.0298 0.0099

Saturn 89108-12-12 09:22 G 34267433.72 34267433.89 34267434.06 0.0299 0.0118

Jupiter 89111-03-19 11:46 G 34268260.87 34268260.99 34268261.12 0.0512 0.0074

Mars 89114-07-31 21:07 G 34269491.28 34269491.38 34269491.47 0.1590 0.0916

Uranus 89114-10-28 09:22 G 34269579.82 34269579.89 34269579.96 0.0144 0.0123

Uranus 89115-01-24 12:58 G 34269667.95 34269668.04 34269668.14 0.0144 0.0101

Uranus 89115-04-22 16:34 G 34269756.09 34269756.19 34269756.31 0.0144 0.0079

Uranus 89115-07-19 20:24 G 34269844.23 34269844.35 34269844.47 0.0144 0.0056

Uranus 89115-10-16 00:15 G 34269932.38 34269932.51 34269932.64 0.0144 0.0034

Uranus 89116-01-12 03:51 G 34270020.53 34270020.66 34270020.80 0.0144 0.0012

Uranus 89116-04-09 07:41 G 34270108.68 34270108.82 34270108.95 0.0144 0.0011

Mars 89116-07-05 22:34 G 34270196.32 34270196.44 34270196.55 0.1596 0.0475

Uranus 89116-07-06 11:31 G 34270196.84 34270196.98 34270197.11 0.0144 0.0034

Uranus 89116-10-02 15:07 G 34270285.01 34270285.13 34270285.26 0.0144 0.0057

Earth 89116-10-04 16:34 G 34270287.08 34270287.19 34270287.31 0.2628 0.0265

Moon 89116-10-04 17:17 G 34270287.11 34270287.22 34270287.33 0.2624 0.0336 *

Uranus 89116-12-29 18:58 G 34270373.18 34270373.29 34270373.41 0.0144 0.0080

Uranus 89117-03-27 22:48 G 34270461.36 34270461.45 34270461.55 0.0144 0.0103

Jupiter 89117-05-15 13:27 G 34270509.88 34270510.06 34270510.24 0.0513 0.0061

Uranus 89117-06-24 02:39 G 34270549.55 34270549.61 34270549.68 0.0144 0.0126

Mars 89119-04-19 21:36 G 34271214.26 34271214.40 34271214.55 0.1940 0.0895

Saturn 89122-04-17 06:15 G 34272307.66 34272307.76 34272307.86 0.0265 0.0175

Saturn 89122-07-14 16:19 G 34272396.05 34272396.18 34272396.31 0.0264 0.0068

Saturn 89122-10-11 02:10 G 34272484.46 34272484.59 34272484.73 0.0263 0.0041

Jupiter 89123-01-05 16:19 G 34272571.05 34272571.18 34272571.30 0.0513 0.0096

Saturn 89123-01-07 12:15 G 34272572.91 34272573.01 34272573.13 0.0263 0.0147

Saturn 89123-04-05 22:34 G 34272661.41 34272661.44 34272661.47 0.0262 0.0254

Mars 89123-12-22 08:53 G 34272921.80 34272921.87 34272921.94 0.1590 0.1245

Venus 89124-08-03 19:27 G 34273147.17 34273147.31 34273147.45 0.3751 0.1766

Mars 89125-11-26 10:05 G 34273626.80 34273626.92 34273627.04 0.1594 0.0128

Moon 89127-04-05 09:51 G 34274121.78 34274121.91 34274122.04 0.2698 0.1345

Earth 89127-04-05 09:36 G 34274121.78 34274121.90 34274122.03 0.2704 0.1404 *

Mars 89127-11-01 12:15 G 34274331.99 34274332.01 34274332.03 0.1601 0.1570

Mars 89128-09-08 14:10 G 34274643.93 34274644.09 34274644.26 0.1943 0.0344

Jupiter 89129-03-03 09:36 G 34274819.76 34274819.90 34274820.04 0.0513 0.0320

Moon 89129-10-07 11:03 G 34275037.87 34275037.96 34275038.05 0.2620 0.1593

Earth 89129-10-07 10:48 G 34275037.87 34275037.95 34275038.04 0.2627 0.1626 *

Mars 89133-05-13 20:39 G 34276352.35 34276352.36 34276352.37 0.1589 0.1575

Jupiter 89134-10-24 20:53 G 34276881.26 34276881.37 34276881.48 0.0513 0.0261

Jupiter 89135-01-22 01:55 G 34276970.51 34276970.58 34276970.65 0.0511 0.0419

Mars 89135-04-18 21:36 G 34277057.28 34277057.40 34277057.52 0.1592 0.0215

Earth 89136-09-30 09:22 G 34277587.83 34277587.89 34277587.95 0.2629 0.2181

Moon 89136-09-30 09:51 G 34277587.85 34277587.91 34277587.98 0.2633 0.2058 *

Mars 89137-03-23 23:46 G 34277762.41 34277762.49 34277762.56 0.1599 0.1212

Mars 89138-01-29 06:15 G 34278073.67 34278073.76 34278073.85 0.1944 0.1622

Saturn 89138-02-01 06:43 G 34278076.62 34278076.78 34278076.93 0.0298 0.0158

Saturn 89138-05-01 07:55 G 34278165.65 34278165.83 34278166.01 0.0298 0.0059

Saturn 89138-07-29 08:39 G 34278254.80 34278254.86 34278254.94 0.0299 0.0274

Neptune 89138-09-01 21:22 G 34278289.38 34278289.39 34278289.41 0.0088 0.0087

Neptune 89138-11-28 22:48 G 34278377.40 34278377.45 34278377.50 0.0088 0.0080

Neptune 89139-02-25 00:00 G 34278465.43 34278465.50 34278465.58 0.0088 0.0073

Neptune 89139-05-24 01:27 G 34278553.48 34278553.56 34278553.65 0.0088 0.0066

Neptune 89139-08-20 02:39 G 34278641.52 34278641.61 34278641.72 0.0088 0.0059

Neptune 89139-11-16 04:05 G 34278729.57 34278729.67 34278729.78 0.0088 0.0052

Neptune 89140-02-12 05:17 G 34278817.61 34278817.72 34278817.85 0.0088 0.0045

Moon 89140-04-07 13:41 G 34278872.93 34278873.07 34278873.20 0.2700 0.1192

Earth 89140-04-07 14:39 G 34278872.98 34278873.11 34278873.24 0.2705 0.1314 *

Neptune 89140-05-10 06:43 G 34278905.66 34278905.78 34278905.91 0.0088 0.0038

Neptune 89140-08-06 08:10 G 34278993.72 34278993.84 34278993.97 0.0088 0.0030

Neptune 89140-11-02 09:36 G 34279081.77 34279081.90 34279082.03 0.0088 0.0023

Neptune 89141-01-29 11:03 G 34279169.82 34279169.96 34279170.09 0.0088 0.0016

Jupiter 89141-03-20 17:03 G 34279220.12 34279220.21 34279220.31 0.0515 0.0430

Neptune 89141-04-27 12:15 G 34279257.88 34279258.01 34279258.15 0.0088 0.0009

Neptune 89141-07-24 13:41 G 34279345.93 34279346.07 34279346.21 0.0088 0.0002

Neptune 89141-10-20 15:07 G 34279433.99 34279434.13 34279434.26 0.0088 0.0006

Neptune 89142-01-16 16:19 G 34279522.05 34279522.18 34279522.32 0.0088 0.0013

Neptune 89142-04-14 17:46 G 34279610.11 34279610.24 34279610.38 0.0088 0.0020

Neptune 89142-07-11 19:12 G 34279698.17 34279698.30 34279698.43 0.0088 0.0027

Neptune 89142-10-07 20:39 G 34279786.23 34279786.36 34279786.49 0.0088 0.0035

Neptune 89143-01-03 22:05 G 34279874.30 34279874.42 34279874.54 0.0088 0.0042

Neptune 89143-04-01 23:17 G 34279962.36 34279962.47 34279962.59 0.0088 0.0049

Neptune 89143-06-29 00:43 G 34280050.43 34280050.53 34280050.64 0.0088 0.0057

Neptune 89143-09-25 02:10 G 34280138.50 34280138.59 34280138.69 0.0088 0.0064

Venus 89143-12-18 18:43 G 34280223.19 34280223.28 34280223.36 0.3623 0.1852

Neptune 89143-12-22 03:22 G 34280226.57 34280226.64 34280226.73 0.0088 0.0072

Neptune 89144-03-19 04:48 G 34280314.65 34280314.70 34280314.77 0.0088 0.0079

Neptune 89144-06-15 06:29 G 34280402.75 34280402.77 34280402.79 0.0088 0.0086

Mars 89144-09-08 09:22 G 34280487.78 34280487.89 34280488.00 0.1591 0.0556

Jupiter 89146-08-13 01:12 G 34281191.48 34281191.55 34281191.62 0.0513 0.0429

Mars 89146-08-14 11:03 G 34281192.86 34281192.96 34281193.06 0.1597 0.0855

Jupiter 89146-11-10 06:00 G 34281280.64 34281280.75 34281280.87 0.0511 0.0248

Venus 89149-07-03 09:36 G 34282246.80 34282246.90 34282247.00 0.3622 0.0249

Earth 89149-10-03 03:22 G 34282338.54 34282338.64 34282338.75 0.2628 0.0847

Moon 89149-10-03 04:19 G 34282338.57 34282338.68 34282338.79 0.2629 0.0778 *

Saturn 89151-09-04 09:07 G 34283039.80 34283039.88 34283039.96 0.0265 0.0205

Saturn 89151-12-01 19:12 G 34283128.17 34283128.30 34283128.42 0.0265 0.0098

Saturn 89152-02-28 05:17 G 34283216.58 34283216.72 34283216.85 0.0264 0.0010

Saturn 89152-05-26 15:22 G 34283305.02 34283305.14 34283305.26 0.0264 0.0117

Saturn 89152-08-23 01:27 G 34283393.50 34283393.56 34283393.63 0.0263 0.0224

Jupiter 89153-01-06 13:55 G 34283529.91 34283530.08 34283530.25 0.0515 0.0180

Mars 89154-01-29 21:07 G 34283918.28 34283918.38 34283918.47 0.1590 0.0886

Venus 89155-01-17 00:43 G 34284270.45 34284270.53 34284270.61 0.3622 0.2362

Mars 89156-01-04 22:34 G 34284623.32 34284623.44 34284623.55 0.1595 0.0506

Uranus 89156-05-21 07:12 G 34284760.71 34284760.80 34284760.91 0.0135 0.0114

Uranus 89156-08-17 14:10 G 34284848.95 34284849.09 34284849.24 0.0135 0.0088

Uranus 89156-11-13 21:07 G 34284937.22 34284937.38 34284937.55 0.0135 0.0061

Uranus 89157-02-10 04:05 G 34285025.49 34285025.67 34285025.85 0.0134 0.0035

Uranus 89157-05-09 11:03 G 34285113.77 34285113.96 34285114.14 0.0134 0.0010

Uranus 89157-08-05 17:46 G 34285202.05 34285202.24 34285202.43 0.0134 0.0016

Uranus 89157-11-02 00:15 G 34285290.34 34285290.51 34285290.70 0.0134 0.0043

Uranus 89158-01-29 07:12 G 34285378.64 34285378.80 34285378.96 0.0134 0.0067

Uranus 89158-04-27 13:55 G 34285466.95 34285467.08 34285467.21 0.0134 0.0093

Uranus 89158-07-24 20:10 G 34285555.27 34285555.34 34285555.44 0.0134 0.0118

Jupiter 89158-08-29 10:19 G 34285590.81 34285590.93 34285591.06 0.0512 0.0077

Mars 89158-10-18 22:19 G 34285641.29 34285641.43 34285641.57 0.1940 0.0963

Earth 89162-10-05 21:36 G 34287089.29 34287089.40 34287089.51 0.2628 0.0518

Moon 89162-10-05 22:05 G 34287089.31 34287089.42 34287089.53 0.2623 0.0596 *

Mars 89163-06-22 08:53 G 34287348.79 34287348.87 34287348.94 0.1590 0.1217

Jupiter 89164-10-25 10:48 G 34287839.77 34287839.95 34287840.13 0.0514 0.0070

Mars 89165-05-27 10:05 G 34288053.80 34288053.92 34288054.04 0.1594 0.0161

Mars 89167-05-02 12:15 G 34288759.01 34288759.01 34288759.01 0.1601 0.1600

Saturn 89167-06-21 06:43 G 34288808.65 34288808.78 34288808.92 0.0297 0.0204

Saturn 89167-09-18 08:10 G 34288897.66 34288897.84 34288898.02 0.0298 0.0014

Saturn 89167-12-16 09:07 G 34288986.77 34288986.88 34288987.00 0.0299 0.0229

Mars 89168-03-09 15:07 G 34289070.97 34289071.13 34289071.30 0.1942 0.0263

Jupiter 89170-06-17 14:24 G 34289900.97 34289901.10 34289901.23 0.0513 0.0102

Mars 89172-11-11 20:39 G 34290779.34 34290779.36 34290779.39 0.1589 0.1542

Moon 89173-04-05 15:51 G 34290924.02 34290924.16 34290924.30 0.2698 0.0973

Earth 89173-04-05 16:05 G 34290924.02 34290924.17 34290924.31 0.2704 0.0898 *

Mars 89174-10-17 21:36 G 34291484.28 34291484.40 34291484.52 0.1592 0.0184

Moon 89175-10-08 15:51 G 34291840.08 34291840.16 34291840.24 0.2621 0.1927

Earth 89175-10-08 15:51 G 34291840.08 34291840.16 34291840.24 0.2627 0.1899 *

Jupiter 89176-08-13 07:27 G 34292149.67 34292149.81 34292149.95 0.0513 0.0321

Mars 89176-09-21 23:31 G 34292189.41 34292189.48 34292189.56 0.1599 0.1244

Mars 89177-07-30 06:58 G 34292500.70 34292500.79 34292500.90 0.1945 0.1537

Saturn 89181-01-21 12:43 G 34293771.97 34293772.03 34293772.10 0.0265 0.0227

Saturn 89181-04-19 22:48 G 34293860.34 34293860.45 34293860.57 0.0265 0.0120

Saturn 89181-07-17 08:53 G 34293948.74 34293948.87 34293949.01 0.0264 0.0014

Saturn 89181-10-13 18:58 G 34294037.17 34294037.29 34294037.42 0.0263 0.0095

Saturn 89182-01-10 05:17 G 34294125.63 34294125.72 34294125.80 0.0263 0.0202

Jupiter 89182-04-05 18:43 G 34294211.17 34294211.28 34294211.39 0.0513 0.0273

Jupiter 89182-07-03 23:46 G 34294300.42 34294300.49 34294300.57 0.0511 0.0407

Earth 89182-10-01 14:24 G 34294390.02 34294390.10 34294390.17 0.2629 0.1916

Moon 89182-10-01 14:53 G 34294390.05 34294390.12 34294390.20 0.2632 0.1896 *

Mars 89184-03-09 09:22 G 34294914.78 34294914.89 34294915.00 0.1591 0.0520

Mars 89186-02-12 11:03 G 34295619.86 34295619.96 34295620.06 0.1597 0.0887

Moon 89186-04-08 19:55 G 34295675.21 34295675.33 34295675.45 0.2700 0.1670

Earth 89186-04-08 20:53 G 34295675.26 34295675.37 34295675.48 0.2705 0.1807 *

Jupiter 89188-08-30 13:55 G 34296549.98 34296550.08 34296550.19 0.0514 0.0416

Mars 89193-07-30 21:07 G 34298345.28 34298345.38 34298345.47 0.1590 0.0857

Jupiter 89194-01-22 23:17 G 34298521.41 34298521.47 34298521.54 0.0514 0.0438

Jupiter 89194-04-22 04:19 G 34298610.56 34298610.68 34298610.79 0.0512 0.0241

Venus 89195-01-09 00:58 G 34298872.49 34298872.54 34298872.59 0.3623 0.3161

Mars 89195-07-05 22:34 G 34299050.33 34299050.44 34299050.55 0.1595 0.0538

Earth 89195-10-04 08:24 G 34299140.74 34299140.85 34299140.96 0.2628 0.0579

Moon 89195-10-04 09:07 G 34299140.76 34299140.88 34299140.99 0.2628 0.0429 *

Saturn 89196-11-07 06:15 G 34299540.67 34299540.76 34299540.85 0.0297 0.0255

Saturn 89197-02-04 07:41 G 34299629.64 34299629.82 34299630.00 0.0298 0.0038

Saturn 89197-05-04 08:39 G 34299718.72 34299718.86 34299719.01 0.0299 0.0178

Pluto 89197-05-08 23:03 G 34299723.38 34299723.46 34299723.56 0.0061 0.0053

Pluto 89197-08-04 23:46 G 34299811.38 34299811.49 34299811.64 0.0061 0.0043

Pluto 89197-11-01 01:12 G 34299899.40 34299899.55 34299899.71 0.0061 0.0032

Pluto 89198-01-28 02:10 G 34299987.43 34299987.59 34299987.77 0.0062 0.0022

Mars 89198-04-18 23:17 G 34300068.34 34300068.47 34300068.61 0.1940 0.1044

Pluto 89198-04-26 03:22 G 34300075.47 34300075.64 34300075.82 0.0062 0.0011

Pluto 89198-07-23 04:34 G 34300163.51 34300163.69 34300163.87 0.0062 0.0001

Uranus 89198-08-21 12:58 G 34300193.01 34300193.04 34300193.07 0.0144 0.0139

Pluto 89198-10-19 05:17 G 34300251.56 34300251.72 34300251.91 0.0062 0.0011

Uranus 89198-11-17 16:34 G 34300281.12 34300281.19 34300281.27 0.0144 0.0117

Pluto 89199-01-15 06:29 G 34300339.61 34300339.77 34300339.95 0.0062 0.0021

Uranus 89199-02-13 20:24 G 34300369.25 34300369.35 34300369.45 0.0144 0.0095

Pluto 89199-04-13 07:12 G 34300427.67 34300427.80 34300427.98 0.0062 0.0032

Uranus 89199-05-13 00:00 G 34300457.39 34300457.50 34300457.62 0.0144 0.0073

Pluto 89199-07-10 08:24 G 34300515.74 34300515.85 34300516.00 0.0062 0.0042

Uranus 89199-08-09 03:36 G 34300545.53 34300545.65 34300545.78 0.0144 0.0051

Pluto 89199-10-06 09:22 G 34300603.82 34300603.89 34300604.00 0.0062 0.0053

Uranus 89199-11-05 07:27 G 34300633.68 34300633.81 34300633.94 0.0144 0.0028

Uranus 89200-02-01 11:17 G 34300721.83 34300721.97 34300722.10 0.0144 0.0007

Uranus 89200-04-29 14:53 G 34300809.99 34300810.12 34300810.26 0.0144 0.0017

Jupiter 89200-06-18 11:03 G 34300859.79 34300859.96 34300860.13 0.0514 0.0168

Venus 89200-07-24 15:51 G 34300896.07 34300896.16 34300896.26 0.3622 0.1089

Uranus 89200-07-26 18:43 G 34300898.15 34300898.28 34300898.41 0.0144 0.0040

Uranus 89200-10-22 22:19 G 34300986.32 34300986.43 34300986.56 0.0144 0.0063

Uranus 89201-01-19 02:10 G 34301074.49 34301074.59 34301074.70 0.0144 0.0086

Uranus 89201-04-17 06:00 G 34301162.67 34301162.75 34301162.84 0.0144 0.0109

Uranus 89201-07-14 09:51 G 34301250.86 34301250.91 34301250.97 0.0144 0.0132

Mars 89202-12-21 08:39 G 34301775.79 34301775.86 34301775.94 0.1590 0.1189

Mars 89204-11-25 10:05 G 34302480.80 34302480.92 34302481.03 0.1594 0.0193

Venus 89206-02-07 06:58 G 34302919.69 34302919.79 34302919.89 0.3622 0.1019

Jupiter 89206-02-08 08:39 G 34302920.73 34302920.86 34302920.99 0.0512 0.0072

Mars 89207-09-08 15:36 G 34303497.99 34303498.15 34303498.32 0.1943 0.0204

Earth 89208-10-06 02:24 G 34303891.49 34303891.60 34303891.71 0.2628 0.0794

Moon 89208-10-06 02:53 G 34303891.51 34303891.62 34303891.73 0.2622 0.0814 *

Saturn 89210-06-10 15:51 G 34304504.13 34304504.16 34304504.20 0.0266 0.0257

Saturn 89210-09-07 01:55 G 34304592.47 34304592.58 34304592.69 0.0265 0.0149

Saturn 89210-12-04 12:00 G 34304680.87 34304681.00 34304681.13 0.0264 0.0042

Saturn 89211-03-02 22:05 G 34304769.29 34304769.42 34304769.55 0.0264 0.0066

Saturn 89211-05-30 08:10 G 34304857.74 34304857.84 34304857.94 0.0263 0.0173

Venus 89211-08-23 22:05 G 34304943.37 34304943.42 34304943.47 0.3621 0.3148

Jupiter 89212-04-06 07:27 G 34305169.63 34305169.81 34305169.99 0.0514 0.0087

Mars 89212-05-12 20:39 G 34305206.33 34305206.36 34305206.39 0.1589 0.1512

Mars 89214-04-17 21:36 G 34305911.28 34305911.40 34305911.52 0.1592 0.0155

Mars 89216-03-22 23:31 G 34306616.41 34306616.48 34306616.55 0.1599 0.1271

Mars 89217-01-28 07:55 G 34306927.73 34306927.83 34306927.94 0.1945 0.1458

Jupiter 89217-11-27 12:58 G 34307230.91 34307231.04 34307231.17 0.0512 0.0099

Moon 89219-04-06 21:51 G 34307726.26 34307726.41 34307726.56 0.2698 0.0355

Earth 89219-04-06 22:19 G 34307726.28 34307726.43 34307726.58 0.2705 0.0384 *

Moon 89221-10-08 20:39 G 34308642.30 34308642.36 34308642.42 0.2621 0.2159

Earth 89221-10-08 20:39 G 34308642.30 34308642.36 34308642.43 0.2627 0.2185 *

Neptune 89222-05-20 01:41 G 34308865.49 34308865.57 34308865.66 0.0090 0.0079

Neptune 89222-08-16 04:48 G 34308953.60 34308953.70 34308953.84 0.0090 0.0069

Neptune 89222-11-12 08:24 G 34309041.72 34309041.85 34309042.00 0.0090 0.0058

Neptune 89223-02-08 12:00 G 34309129.84 34309130.00 34309130.16 0.0090 0.0047

Neptune 89223-05-07 15:36 G 34309217.98 34309218.15 34309218.32 0.0090 0.0036

Neptune 89223-08-03 18:43 G 34309306.11 34309306.28 34309306.47 0.0090 0.0026

Mars 89223-09-08 09:22 G 34309341.78 34309341.89 34309342.00 0.1591 0.0491

Neptune 89223-10-30 22:19 G 34309394.25 34309394.43 34309394.62 0.0090 0.0015

Jupiter 89224-01-24 04:05 G 34309479.54 34309479.67 34309479.81 0.0513 0.0337

Neptune 89224-01-27 01:41 G 34309482.39 34309482.57 34309482.76 0.0090 0.0005

Neptune 89224-04-24 05:17 G 34309570.53 34309570.72 34309570.90 0.0090 0.0007

Neptune 89224-07-21 08:24 G 34309658.67 34309658.85 34309659.04 0.0090 0.0018

Neptune 89224-10-17 12:00 G 34309746.82 34309747.00 34309747.18 0.0090 0.0028

Neptune 89225-01-13 15:07 G 34309834.97 34309835.13 34309835.31 0.0090 0.0039

Neptune 89225-04-11 18:43 G 34309923.12 34309923.28 34309923.43 0.0090 0.0049

Neptune 89225-07-08 21:36 G 34310011.28 34310011.40 34310011.55 0.0090 0.0060

Mars 89225-08-13 11:03 G 34310046.86 34310046.96 34310047.05 0.1597 0.0920

Neptune 89225-10-05 01:12 G 34310099.44 34310099.55 34310099.67 0.0090 0.0070

Neptune 89226-01-01 04:19 G 34310187.61 34310187.68 34310187.77 0.0090 0.0081

Saturn 89226-06-24 07:41 G 34310361.65 34310361.82 34310362.00 0.0298 0.0084

Saturn 89226-09-21 08:53 G 34310450.71 34310450.87 34310451.04 0.0298 0.0133

Earth 89228-10-01 19:12 G 34311192.21 34311192.30 34311192.38 0.2629 0.1653

Moon 89228-10-01 19:55 G 34311192.23 34311192.33 34311192.42 0.2632 0.1497 *

Jupiter 89229-09-15 16:48 G 34311541.10 34311541.20 34311541.31 0.0513 0.0280

Jupiter 89229-12-13 21:51 G 34311630.33 34311630.41 34311630.49 0.0511 0.0398

Venus 89232-03-31 13:12 G 34312468.90 34312469.05 34312469.20 0.3751 0.1343

Moon 89232-04-09 02:10 G 34312477.50 34312477.59 34312477.68 0.2701 0.2127

Earth 89232-04-09 03:22 G 34312477.56 34312477.64 34312477.71 0.2705 0.2308 *

Mars 89233-01-28 20:53 G 34312772.27 34312772.37 34312772.47 0.1590 0.0827

Mars 89235-01-03 22:34 G 34313477.33 34313477.44 34313477.55 0.1595 0.0569

Jupiter 89236-02-10 11:46 G 34313879.88 34313879.99 34313880.09 0.0514 0.0413

Mars 89237-10-18 00:00 G 34314495.37 34314495.50 34314495.64 0.1940 0.1118

Saturn 89240-01-25 05:31 G 34315324.64 34315324.73 34315324.84 0.0265 0.0171

Uranus 89240-03-14 07:41 G 34315373.79 34315373.82 34315373.86 0.0135 0.0132

Saturn 89240-04-22 15:51 G 34315413.03 34315413.16 34315413.29 0.0264 0.0063

Uranus 89240-06-10 14:39 G 34315462.00 34315462.11 34315462.23 0.0135 0.0106

Saturn 89240-07-20 01:55 G 34315501.44 34315501.58 34315501.71 0.0264 0.0045

Uranus 89240-09-06 21:22 G 34315550.25 34315550.39 34315550.56 0.0135 0.0080

Saturn 89240-10-16 12:00 G 34315589.89 34315590.00 34315590.11 0.0263 0.0152

Uranus 89240-12-04 04:19 G 34315638.52 34315638.68 34315638.87 0.0135 0.0054

Saturn 89241-01-12 22:05 G 34315678.41 34315678.42 34315678.44 0.0263 0.0260

Uranus 89241-03-02 11:17 G 34315726.79 34315726.97 34315727.16 0.0135 0.0028

Uranus 89241-05-29 18:15 G 34315815.08 34315815.26 34315815.45 0.0135 0.0004

Jupiter 89241-07-04 21:07 G 34315851.32 34315851.38 34315851.44 0.0514 0.0452

Uranus 89241-08-26 01:12 G 34315903.36 34315903.55 34315903.73 0.0135 0.0025

Jupiter 89241-10-02 02:10 G 34315940.47 34315940.59 34315940.70 0.0512 0.0227

Earth 89241-10-04 13:12 G 34315942.94 34315943.05 34315943.16 0.2628 0.0303

Moon 89241-10-04 13:55 G 34315942.96 34315943.08 34315943.19 0.2626 0.0275 *

Uranus 89241-11-22 07:41 G 34315991.66 34315991.82 34315992.00 0.0134 0.0051

Uranus 89242-02-18 14:39 G 34316079.96 34316080.11 34316080.26 0.0134 0.0076

Uranus 89242-05-17 20:53 G 34316168.27 34316168.37 34316168.51 0.0134 0.0102

Mars 89242-06-21 08:53 G 34316202.79 34316202.87 34316202.94 0.1589 0.1156

Uranus 89242-08-14 03:36 G 34316256.60 34316256.65 34316256.73 0.0134 0.0127

Mars 89244-05-26 10:05 G 34316907.80 34316907.92 34316908.03 0.1594 0.0226

Mars 89247-03-09 16:48 G 34317925.03 34317925.20 34317925.36 0.1943 0.0112

Jupiter 89247-11-29 07:55 G 34318189.66 34318189.83 34318190.00 0.0514 0.0153

Venus 89251-08-15 22:19 G 34319545.35 34319545.43 34319545.50 0.3622 0.2400

Mars 89251-11-11 20:39 G 34319633.32 34319633.36 34319633.39 0.1589 0.1485

Moon 89252-04-04 00:00 G 34319777.44 34319777.50 34319777.56 0.2698 0.2453

Earth 89252-04-03 23:31 G 34319777.45 34319777.48 34319777.51 0.2704 0.2636 *

Jupiter 89253-07-21 06:29 G 34320250.65 34320250.77 34320250.90 0.0512 0.0062

Mars 89253-10-16 21:36 G 34320338.28 34320338.40 34320338.52 0.1592 0.0122

Earth 89254-10-07 07:27 G 34320693.70 34320693.81 34320693.91 0.2628 0.1069

Moon 89254-10-07 07:41 G 34320693.72 34320693.82 34320693.93 0.2622 0.1162 *

Mars 89255-09-21 23:46 G 34321043.42 34321043.49 34321043.55 0.1599 0.1308

Saturn 89255-11-11 07:27 G 34321093.65 34321093.81 34321093.98 0.0298 0.0133

Saturn 89256-02-08 08:39 G 34321182.69 34321182.86 34321183.04 0.0298 0.0084

Saturn 89256-05-07 09:36 G 34321271.90 34321271.90 34321271.91 0.0299 0.0298

Mars 89256-07-29 08:53 G 34321354.75 34321354.87 34321354.98 0.1945 0.1380

Venus 89257-02-28 13:12 G 34321568.95 34321569.05 34321569.15 0.3622 0.0309

Jupiter 89259-09-17 04:34 G 34322499.51 34322499.69 34322499.87 0.0513 0.0099

Venus 89262-09-14 04:19 G 34323592.59 34323592.68 34323592.77 0.3622 0.1804

Mars 89263-03-09 09:07 G 34323768.77 34323768.88 34323769.00 0.1591 0.0466

Mars 89265-02-11 11:03 G 34324473.86 34324473.96 34324474.05 0.1597 0.0950

Moon 89265-04-07 04:05 G 34324528.52 34324528.67 34324528.82 0.2698 0.0070

Earth 89265-04-07 04:48 G 34324528.55 34324528.70 34324528.85 0.2705 0.0140 *

Jupiter 89265-05-09 11:03 G 34324560.84 34324560.96 34324561.09 0.0513 0.0106

Moon 89267-10-10 01:27 G 34325444.51 34325444.56 34325444.60 0.2621 0.2389

Earth 89267-10-10 01:41 G 34325444.53 34325444.57 34325444.61 0.2627 0.2462 *

Saturn 89269-06-13 08:39 G 34326056.78 34326056.86 34326056.95 0.0265 0.0200

Saturn 89269-09-09 18:43 G 34326145.16 34326145.28 34326145.41 0.0265 0.0092

Saturn 89269-12-07 04:48 G 34326233.57 34326233.70 34326233.84 0.0264 0.0017

Saturn 89270-03-05 14:53 G 34326322.01 34326322.12 34326322.24 0.0264 0.0124

Saturn 89270-06-02 01:12 G 34326410.49 34326410.55 34326410.61 0.0263 0.0231

Jupiter 89271-07-06 00:43 G 34326809.40 34326809.53 34326809.66 0.0513 0.0356

Mars 89272-07-29 20:53 G 34327199.27 34327199.37 34327199.48 0.1590 0.0796

Mars 89274-07-04 22:19 G 34327904.33 34327904.43 34327904.54 0.1595 0.0601

Earth 89274-10-03 00:00 G 34327994.40 34327994.50 34327994.60 0.2629 0.1384

Moon 89274-10-03 00:43 G 34327994.43 34327994.53 34327994.63 0.2632 0.1352 *

Jupiter 89277-02-25 15:22 G 34328871.04 34328871.14 34328871.25 0.0513 0.0276

Mars 89277-04-18 00:58 G 34328922.41 34328922.54 34328922.67 0.1940 0.1190

Jupiter 89277-05-25 20:24 G 34328960.27 34328960.35 34328960.43 0.0511 0.0402

Moon 89278-04-10 08:10 G 34329279.84 34329279.84 34329279.85 0.2702 0.2702

Mars 89281-12-20 08:39 G 34330629.78 34330629.86 34330629.94 0.1589 0.1126

Uranus 89282-09-10 20:24 G 34330894.31 34330894.35 34330894.41 0.0143 0.0132

Uranus 89282-12-08 00:15 G 34330982.43 34330982.51 34330982.60 0.0143 0.0109

Uranus 89283-03-06 03:51 G 34331070.56 34331070.66 34331070.77 0.0144 0.0087

Uranus 89283-06-02 07:27 G 34331158.70 34331158.81 34331158.94 0.0144 0.0066

Jupiter 89283-07-23 08:24 G 34331209.74 34331209.85 34331209.97 0.0515 0.0397

Uranus 89283-08-29 11:17 G 34331246.85 34331246.97 34331247.10 0.0144 0.0043

Mars 89283-11-25 10:05 G 34331334.80 34331334.92 34331335.03 0.1594 0.0257

Uranus 89283-11-25 15:07 G 34331334.99 34331335.13 34331335.26 0.0144 0.0021 *

Uranus 89284-02-21 18:43 G 34331423.15 34331423.28 34331423.42 0.0144 0.0004

Uranus 89284-05-19 22:34 G 34331511.31 34331511.44 34331511.57 0.0144 0.0025

Uranus 89284-08-16 02:10 G 34331599.47 34331599.59 34331599.72 0.0144 0.0048

Uranus 89284-11-12 06:00 G 34331687.64 34331687.75 34331687.87 0.0144 0.0070

Uranus 89285-02-08 09:51 G 34331775.81 34331775.91 34331776.02 0.0144 0.0093

Saturn 89285-03-30 07:12 G 34331825.66 34331825.80 34331825.95 0.0297 0.0181

Uranus 89285-05-07 13:41 G 34331863.99 34331864.07 34331864.15 0.0144 0.0116

Saturn 89285-06-27 08:39 G 34331914.68 34331914.86 34331915.04 0.0298 0.0037

Uranus 89285-08-03 17:31 G 34331952.20 34331952.23 34331952.26 0.0144 0.0139

Saturn 89285-09-24 09:36 G 34332003.81 34332003.90 34332004.00 0.0299 0.0252

Mars 89286-09-07 17:46 G 34332352.08 34332352.24 34332352.41 0.1943 0.0037

Earth 89287-10-05 18:00 G 34332745.14 34332745.25 34332745.36 0.2628 0.0041

Moon 89287-10-05 18:43 G 34332745.16 34332745.28 34332745.39 0.2625 0.0134 *

Venus 89288-11-05 16:05 G 34333142.02 34333142.17 34333142.31 0.3751 0.1518

Jupiter 89288-12-14 19:12 G 34333181.25 34333181.30 34333181.36 0.0514 0.0459

Jupiter 89289-03-14 00:15 G 34333270.39 34333270.51 34333270.62 0.0512 0.0219

Pluto 89289-09-09 18:15 G 34333450.20 34333450.26 34333450.33 0.0083 0.0073

Pluto 89289-12-06 19:27 G 34333538.21 34333538.31 34333538.43 0.0083 0.0053

Pluto 89290-03-04 20:53 G 34333626.25 34333626.37 34333626.51 0.0082 0.0033

Pluto 89290-05-31 22:19 G 34333714.29 34333714.43 34333714.58 0.0082 0.0012

Pluto 89290-08-27 23:46 G 34333802.35 34333802.49 34333802.63 0.0082 0.0008

Pluto 89290-11-24 00:58 G 34333890.41 34333890.54 34333890.68 0.0082 0.0029

Pluto 89291-02-20 02:24 G 34333978.49 34333978.60 34333978.72 0.0082 0.0048

Mars 89291-05-12 20:39 G 34334060.31 34334060.36 34334060.40 0.1589 0.1452

Pluto 89291-05-19 03:51 G 34334066.58 34334066.66 34334066.74 0.0082 0.0068

Mars 89293-04-16 21:36 G 34334765.28 34334765.40 34334765.52 0.1592 0.0098

Mars 89295-03-22 23:31 G 34335470.42 34335470.48 34335470.55 0.1599 0.1338

Jupiter 89295-05-11 05:31 G 34335519.56 34335519.73 34335519.90 0.0514 0.0150

Mars 89296-01-28 09:36 G 34335781.78 34335781.90 34335782.02 0.1945 0.1304

Earth 89298-04-05 06:00 G 34336579.65 34336579.75 34336579.84 0.2704 0.2113

Moon 89298-04-05 06:15 G 34336579.67 34336579.76 34336579.85 0.2697 0.2153 *

Saturn 89298-10-31 12:29 G 34336788.95 34336789.02 34336789.10 0.0265 0.0220

Saturn 89299-01-27 22:34 G 34336877.32 34336877.44 34336877.56 0.0265 0.0113

Saturn 89299-04-26 08:39 G 34336965.73 34336965.86 34336965.99 0.0264 0.0005

Saturn 89299-07-23 18:43 G 34337054.16 34337054.28 34337054.40 0.0263 0.0102

Saturn 89299-10-20 04:48 G 34337142.62 34337142.70 34337142.78 0.0263 0.0210

Earth 89300-10-08 12:15 G 34337495.91 34337496.01 34337496.11 0.2628 0.1344

Moon 89300-10-08 12:29 G 34337495.92 34337496.02 34337496.12 0.2622 0.1330 *

Jupiter 89301-01-01 04:34 G 34337580.56 34337580.69 34337580.81 0.0512 0.0050

Mars 89302-09-08 09:22 G 34338195.77 34338195.89 34338196.00 0.1591 0.0430

Neptune 89303-05-30 20:39 G 34338460.34 34338460.36 34338460.40 0.0088 0.0085

Neptune 89303-08-26 21:51 G 34338548.36 34338548.41 34338548.49 0.0088 0.0078

Neptune 89303-11-22 23:17 G 34338636.40 34338636.47 34338636.56 0.0088 0.0071

Neptune 89304-02-19 00:29 G 34338724.44 34338724.52 34338724.63 0.0088 0.0064

Neptune 89304-05-17 02:10 G 34338812.49 34338812.59 34338812.69 0.0088 0.0056

Neptune 89304-08-13 03:36 G 34338900.54 34338900.65 34338900.76 0.0088 0.0049

Mars 89304-08-13 11:03 G 34338900.86 34338900.96 34338901.05 0.1597 0.0982

Neptune 89304-11-09 04:48 G 34338988.59 34338988.70 34338988.82 0.0088 0.0042

Neptune 89305-02-05 06:15 G 34339076.64 34339076.76 34339076.88 0.0088 0.0035

Neptune 89305-05-04 07:27 G 34339164.69 34339164.81 34339164.95 0.0088 0.0028

Neptune 89305-07-31 08:53 G 34339252.74 34339252.87 34339253.01 0.0088 0.0021

Neptune 89305-10-27 10:19 G 34339340.80 34339340.93 34339341.07 0.0088 0.0013

Neptune 89306-01-23 11:46 G 34339428.85 34339428.99 34339429.12 0.0088 0.0006

Neptune 89306-04-21 12:58 G 34339516.91 34339517.04 34339517.18 0.0088 0.0003

Neptune 89306-07-18 14:24 G 34339604.97 34339605.10 34339605.24 0.0088 0.0009

Neptune 89306-10-14 15:51 G 34339693.03 34339693.16 34339693.30 0.0088 0.0016

Neptune 89307-01-10 17:17 G 34339781.09 34339781.22 34339781.35 0.0088 0.0023

Jupiter 89307-02-28 01:41 G 34339829.39 34339829.57 34339829.75 0.0513 0.0110

Neptune 89307-04-08 18:29 G 34339869.15 34339869.27 34339869.40 0.0088 0.0030

Neptune 89307-07-05 19:55 G 34339957.21 34339957.33 34339957.46 0.0088 0.0037

Neptune 89307-10-01 21:22 G 34340045.27 34340045.39 34340045.51 0.0088 0.0045

Earth 89307-10-02 11:03 G 34340045.92 34340045.96 34340045.99 0.2630 0.2449

Moon 89307-10-02 11:31 G 34340045.93 34340045.98 34340046.02 0.2635 0.2392 *

Neptune 89307-12-28 22:48 G 34340133.34 34340133.45 34340133.56 0.0088 0.0052

Venus 89308-03-22 19:27 G 34340218.22 34340218.31 34340218.40 0.3622 0.1627

Neptune 89308-03-26 00:00 G 34340221.41 34340221.50 34340221.61 0.0088 0.0060

Neptune 89308-06-22 01:27 G 34340309.48 34340309.56 34340309.65 0.0088 0.0067

Neptune 89308-09-18 02:53 G 34340397.55 34340397.62 34340397.70 0.0088 0.0074

Neptune 89308-12-15 04:05 G 34340485.64 34340485.67 34340485.73 0.0088 0.0082

Moon 89311-04-09 10:34 G 34341330.79 34341330.94 34341331.08 0.2698 0.0668

Earth 89311-04-09 11:17 G 34341330.82 34341330.97 34341331.11 0.2705 0.0652 *

Mars 89312-01-29 20:53 G 34341626.27 34341626.37 34341626.47 0.1590 0.0766

Jupiter 89312-10-20 08:53 G 34341890.75 34341890.87 34341891.00 0.0513 0.0121

Venus 89313-10-06 10:34 G 34342241.84 34342241.94 34342242.04 0.3622 0.0471

Mars 89314-01-03 22:34 G 34342331.33 34342331.44 34342331.55 0.1595 0.0633

Saturn 89314-08-18 06:58 G 34342557.68 34342557.79 34342557.91 0.0297 0.0230

Saturn 89314-11-15 08:24 G 34342646.67 34342646.85 34342647.04 0.0298 0.0013

Saturn 89315-02-12 09:22 G 34342735.77 34342735.89 34342736.03 0.0299 0.0204

Mars 89316-10-18 01:41 G 34343349.45 34343349.57 34343349.70 0.1940 0.1267

Jupiter 89318-12-16 22:05 G 34344139.29 34344139.42 34344139.55 0.0513 0.0364

Venus 89319-04-22 01:41 G 34344265.50 34344265.57 34344265.64 0.3621 0.2590

Earth 89320-10-04 04:48 G 34344796.60 34344796.70 34344796.80 0.2629 0.1116

Moon 89320-10-04 05:31 G 34344796.63 34344796.73 34344796.84 0.2630 0.0977 *

Mars 89321-06-21 08:39 G 34345056.78 34345056.86 34345056.94 0.1589 0.1096

Mars 89323-05-27 09:51 G 34345761.80 34345761.91 34345762.03 0.1594 0.0285

Uranus 89324-04-04 14:39 G 34346075.05 34346075.11 34346075.19 0.0135 0.0125

Uranus 89324-07-01 21:36 G 34346163.28 34346163.40 34346163.54 0.0135 0.0099

Jupiter 89324-08-08 13:41 G 34346200.96 34346201.07 34346201.18 0.0513 0.0283

Uranus 89324-09-28 04:48 G 34346251.54 34346251.70 34346251.86 0.0135 0.0072

Jupiter 89324-11-05 18:29 G 34346290.19 34346290.27 34346290.36 0.0511 0.0396

Uranus 89324-12-25 11:46 G 34346339.81 34346339.99 34346340.17 0.0135 0.0046

Uranus 89325-03-23 18:43 G 34346428.09 34346428.28 34346428.46 0.0135 0.0020

Uranus 89325-06-20 01:27 G 34346516.38 34346516.56 34346516.75 0.0135 0.0007

Uranus 89325-09-16 08:24 G 34346604.67 34346604.85 34346605.03 0.0135 0.0032

Uranus 89325-12-13 14:53 G 34346692.96 34346693.12 34346693.30 0.0135 0.0058

Mars 89326-03-09 18:15 G 34346779.09 34346779.26 34346779.42 0.1943 0.0035

Uranus 89326-03-11 21:36 G 34346781.26 34346781.40 34346781.56 0.0135 0.0083

Uranus 89326-06-08 04:19 G 34346869.58 34346869.68 34346869.80 0.0135 0.0109

Uranus 89326-09-04 11:03 G 34346957.95 34346957.96 34346957.98 0.0134 0.0134

Saturn 89328-03-20 15:36 G 34347521.11 34347521.15 34347521.20 0.0265 0.0249

Saturn 89328-06-17 01:41 G 34347609.46 34347609.57 34347609.68 0.0265 0.0142

Saturn 89328-09-13 11:31 G 34347697.85 34347697.98 34347698.12 0.0264 0.0036

Saturn 89328-12-10 21:36 G 34347786.28 34347786.40 34347786.53 0.0264 0.0073

Saturn 89329-03-09 07:55 G 34347874.73 34347874.83 34347874.93 0.0263 0.0180

Mars 89330-11-11 20:24 G 34348487.31 34348487.35 34348487.41 0.1589 0.1424

Jupiter 89331-01-03 05:17 G 34348539.60 34348539.72 34348539.84 0.0515 0.0379

Mars 89332-10-16 21:36 G 34349192.28 34349192.40 34349192.51 0.1592 0.0071

Earth 89333-10-06 23:03 G 34349547.34 34349547.46 34349547.57 0.2628 0.0264

Moon 89333-10-06 23:31 G 34349547.37 34349547.48 34349547.60 0.2624 0.0265 *

Mars 89334-09-21 23:31 G 34349897.42 34349897.48 34349897.54 0.1599 0.1366

Mars 89335-07-30 10:48 G 34350208.82 34350208.95 34350209.08 0.1945 0.1215

Jupiter 89336-05-27 18:00 G 34350511.20 34350511.25 34350511.31 0.0514 0.0451

Jupiter 89336-08-24 22:48 G 34350600.34 34350600.45 34350600.57 0.0511 0.0227

Mars 89342-03-09 09:07 G 34352622.77 34352622.88 34352623.00 0.1591 0.0403

Jupiter 89342-10-22 02:24 G 34352849.43 34352849.60 34352849.78 0.0514 0.0136

Saturn 89344-01-05 05:46 G 34353289.70 34353289.74 34353289.79 0.0297 0.0285

Mars 89344-02-12 11:03 G 34353327.87 34353327.96 34353328.05 0.1597 0.1015

Saturn 89344-04-03 07:27 G 34353378.63 34353378.81 34353378.99 0.0298 0.0067

Moon 89344-04-06 12:15 G 34353381.88 34353382.01 34353382.13 0.2697 0.1542

Earth 89344-04-06 12:15 G 34353381.89 34353382.01 34353382.13 0.2704 0.1596 *

Saturn 89344-07-01 08:39 G 34353467.70 34353467.86 34353468.02 0.0299 0.0150

Moon 89346-10-09 17:17 G 34354298.13 34354298.22 34354298.31 0.2621 0.1688

Earth 89346-10-09 17:03 G 34354298.13 34354298.21 34354298.30 0.2627 0.1622 *

Jupiter 89348-06-13 02:39 G 34354910.48 34354910.61 34354910.74 0.0512 0.0042

Mars 89351-07-30 20:53 G 34356053.27 34356053.37 34356053.48 0.1590 0.0733

Mars 89353-07-04 22:34 G 34356758.33 34356758.44 34356758.54 0.1595 0.0664

Earth 89353-10-02 15:51 G 34356848.10 34356848.16 34356848.22 0.2629 0.2183

Moon 89353-10-02 16:19 G 34356848.12 34356848.18 34356848.24 0.2634 0.2127 *

Jupiter 89354-08-09 23:31 G 34357159.30 34357159.48 34357159.66 0.0513 0.0108

Mars 89356-04-18 02:39 G 34357776.49 34357776.61 34357776.72 0.1940 0.1342

Moon 89357-04-09 16:34 G 34358133.05 34358133.19 34358133.34 0.2699 0.0947

Earth 89357-04-09 17:31 G 34358133.09 34358133.23 34358133.36 0.2705 0.1149 *

Saturn 89357-11-04 05:17 G 34358341.62 34358341.72 34358341.83 0.0265 0.0164

Saturn 89358-01-31 15:22 G 34358430.01 34358430.14 34358430.27 0.0264 0.0057

Saturn 89358-04-30 01:27 G 34358518.43 34358518.56 34358518.69 0.0264 0.0050

Saturn 89358-07-27 11:17 G 34358606.87 34358606.97 34358607.09 0.0263 0.0158

Venus 89359-04-14 01:55 G 34358867.52 34358867.58 34358867.63 0.3623 0.2931

Jupiter 89360-04-01 06:58 G 34359220.67 34359220.79 34359220.91 0.0513 0.0130

Mars 89360-12-20 08:39 G 34359483.78 34359483.86 34359483.95 0.1589 0.1064

Mars 89362-11-25 09:51 G 34360188.80 34360188.91 34360189.03 0.1594 0.0321

Venus 89364-10-27 16:48 G 34360891.10 34360891.20 34360891.30 0.3622 0.0851

Mars 89365-09-07 19:27 G 34361206.14 34361206.31 34361206.47 0.1943 0.0125

Jupiter 89366-05-28 19:27 G 34361469.19 34361469.31 34361469.44 0.0512 0.0368

Uranus 89366-10-02 04:19 G 34361595.62 34361595.68 34361595.76 0.0143 0.0123

Earth 89366-10-05 09:36 G 34361598.80 34361598.90 34361599.01 0.2629 0.0853

Moon 89366-10-05 10:34 G 34361598.83 34361598.94 34361599.04 0.2628 0.0774 *

Uranus 89366-12-29 08:10 G 34361683.75 34361683.84 34361683.93 0.0143 0.0101

Uranus 89367-03-27 11:46 G 34361771.88 34361771.99 34361772.10 0.0143 0.0079

Uranus 89367-06-23 15:22 G 34361860.02 34361860.14 34361860.27 0.0144 0.0057

Uranus 89367-09-19 19:12 G 34361948.17 34361948.30 34361948.43 0.0144 0.0034

Uranus 89367-12-16 22:48 G 34362036.32 34362036.45 34362036.59 0.0144 0.0013

Uranus 89368-03-14 02:39 G 34362124.48 34362124.61 34362124.75 0.0144 0.0011

Uranus 89368-06-10 06:29 G 34362212.64 34362212.77 34362212.90 0.0144 0.0034

Uranus 89368-09-06 10:05 G 34362300.80 34362300.92 34362301.05 0.0144 0.0056

Uranus 89368-12-03 13:55 G 34362388.97 34362389.08 34362389.20 0.0144 0.0079

Uranus 89369-03-01 17:46 G 34362477.15 34362477.24 34362477.34 0.0144 0.0102

Uranus 89369-05-28 21:36 G 34362565.34 34362565.40 34362565.47 0.0144 0.0125

Mars 89370-05-12 20:24 G 34362914.30 34362914.35 34362914.41 0.1589 0.1395

Venus 89370-05-13 07:41 G 34362914.73 34362914.82 34362914.92 0.3622 0.1257

Jupiter 89372-01-19 11:31 G 34363530.87 34363530.98 34363531.08 0.0514 0.0296

Mars 89372-04-16 21:36 G 34363619.28 34363619.40 34363619.51 0.1592 0.0051

Jupiter 89372-04-17 16:34 G 34363620.10 34363620.19 34363620.27 0.0511 0.0384

Saturn 89373-08-21 06:43 G 34364110.62 34364110.78 34364110.95 0.0298 0.0120

Saturn 89373-11-18 08:10 G 34364199.67 34364199.84 34364200.01 0.0299 0.0098

Mars 89374-03-22 23:31 G 34364324.43 34364324.48 34364324.54 0.1599 0.1403

Mars 89375-01-28 11:17 G 34364635.84 34364635.97 34364636.10 0.1945 0.1151

Venus 89375-11-26 22:48 G 34364938.42 34364938.45 34364938.49 0.3621 0.3369

Jupiter 89378-06-15 02:53 G 34365869.50 34365869.62 34365869.74 0.0514 0.0377

Earth 89379-10-08 03:51 G 34366349.55 34366349.66 34366349.77 0.2628 0.0515

Moon 89379-10-08 04:19 G 34366349.57 34366349.68 34366349.79 0.2624 0.0656 *

Mars 89381-09-07 09:07 G 34367049.77 34367049.88 34367050.00 0.1591 0.0371

Mars 89383-08-13 11:03 G 34367754.87 34367754.96 34367755.05 0.1597 0.1044

Jupiter 89383-11-07 16:19 G 34367841.12 34367841.18 34367841.23 0.0514 0.0457

Jupiter 89384-02-04 21:07 G 34367930.26 34367930.38 34367930.50 0.0512 0.0221

Neptune 89386-11-18 20:10 G 34368948.30 34368948.34 34368948.39 0.0090 0.0086

Neptune 89387-02-14 23:17 G 34369036.39 34369036.47 34369036.59 0.0090 0.0076

Saturn 89387-03-24 08:10 G 34369073.76 34369073.84 34369073.93 0.0265 0.0194

Neptune 89387-05-14 02:53 G 34369124.50 34369124.62 34369124.76 0.0090 0.0065

Saturn 89387-06-20 18:15 G 34369162.14 34369162.26 34369162.39 0.0264 0.0087

Neptune 89387-08-10 06:29 G 34369212.63 34369212.77 34369212.93 0.0090 0.0054

Saturn 89387-09-17 04:19 G 34369250.54 34369250.68 34369250.81 0.0264 0.0020

Neptune 89387-11-06 10:05 G 34369300.76 34369300.92 34369301.09 0.0090 0.0043

Saturn 89387-12-14 14:24 G 34369338.98 34369339.10 34369339.22 0.0263 0.0127

Neptune 89388-02-02 13:12 G 34369388.89 34369389.05 34369389.24 0.0090 0.0033

Saturn 89388-03-12 00:29 G 34369427.46 34369427.52 34369427.58 0.0263 0.0235

Neptune 89388-04-30 16:48 G 34369477.03 34369477.20 34369477.39 0.0090 0.0022

Neptune 89388-07-27 20:24 G 34369565.16 34369565.35 34369565.54 0.0090 0.0011

Neptune 89388-10-23 23:46 G 34369653.31 34369653.49 34369653.68 0.0090 0.0001

Neptune 89389-01-20 03:07 G 34369741.45 34369741.63 34369741.82 0.0090 0.0011

Neptune 89389-04-18 06:29 G 34369829.59 34369829.77 34369829.96 0.0090 0.0021

Neptune 89389-07-15 09:51 G 34369917.74 34369917.91 34369918.09 0.0090 0.0032

Neptune 89389-10-11 12:58 G 34370005.89 34370006.04 34370006.22 0.0090 0.0043

Neptune 89390-01-07 16:34 G 34370094.05 34370094.19 34370094.35 0.0090 0.0053

Jupiter 89390-04-02 23:31 G 34370179.30 34370179.48 34370179.65 0.0514 0.0123

Neptune 89390-04-05 19:41 G 34370182.21 34370182.32 34370182.47 0.0090 0.0064

Moon 89390-04-07 18:29 G 34370184.13 34370184.27 34370184.41 0.2697 0.1128

Earth 89390-04-07 18:43 G 34370184.14 34370184.28 34370184.42 0.2704 0.1079 *

Neptune 89390-07-02 23:03 G 34370270.37 34370270.46 34370270.58 0.0090 0.0074

Neptune 89390-09-29 02:39 G 34370358.55 34370358.61 34370358.67 0.0090 0.0084

Mars 89391-01-28 20:53 G 34370480.27 34370480.37 34370480.48 0.1590 0.0702

Moon 89392-10-09 22:05 G 34371100.34 34371100.42 34371100.50 0.2621 0.1829

Earth 89392-10-09 22:05 G 34371100.34 34371100.42 34371100.50 0.2627 0.1902 *

Mars 89393-01-02 22:19 G 34371185.33 34371185.43 34371185.54 0.1595 0.0693

Mars 89395-10-18 03:22 G 34372203.53 34372203.64 34372203.75 0.1941 0.1413

Jupiter 89395-11-24 01:27 G 34372240.44 34372240.56 34372240.69 0.0512 0.0056

Venus 89396-07-04 09:36 G 34372463.76 34372463.90 34372464.04 0.3751 0.1656

Earth 89399-10-03 20:39 G 34373650.28 34373650.36 34373650.43 0.2629 0.1920

Moon 89399-10-03 21:07 G 34373650.30 34373650.38 34373650.46 0.2634 0.1826 *

Mars 89400-06-21 08:39 G 34373910.77 34373910.86 34373910.95 0.1589 0.1035

Jupiter 89402-01-20 20:39 G 34374489.18 34374489.36 34374489.54 0.0513 0.0119

Mars 89402-05-27 09:51 G 34374615.80 34374615.91 34374616.03 0.1594 0.0350

Saturn 89403-01-09 04:48 G 34374842.56 34374842.70 34374842.85 0.0297 0.0181

Saturn 89403-04-08 06:15 G 34374931.58 34374931.76 34374931.94 0.0298 0.0037

Moon 89403-04-11 22:48 G 34374935.33 34374935.45 34374935.57 0.2701 0.1584

Earth 89403-04-11 23:46 G 34374935.38 34374935.49 34374935.61 0.2705 0.1657 *

Saturn 89403-07-06 07:27 G 34375020.71 34375020.81 34375020.90 0.0299 0.0253

Mars 89405-03-09 20:10 G 34375633.18 34375633.34 34375633.51 0.1943 0.0205

Jupiter 89407-09-13 05:17 G 34376550.60 34376550.72 34376550.85 0.0513 0.0132

Uranus 89408-04-25 22:05 G 34376776.34 34376776.42 34376776.52 0.0135 0.0117

Uranus 89408-07-23 05:17 G 34376864.58 34376864.72 34376864.86 0.0135 0.0090

Uranus 89408-10-19 12:15 G 34376952.85 34376953.01 34376953.18 0.0135 0.0064

Uranus 89409-01-15 19:12 G 34377041.12 34377041.30 34377041.48 0.0135 0.0038

Uranus 89409-04-14 02:10 G 34377129.40 34377129.59 34377129.78 0.0135 0.0011

Uranus 89409-07-11 08:53 G 34377217.69 34377217.87 34377218.06 0.0135 0.0015

Uranus 89409-10-07 15:36 G 34377305.98 34377306.15 34377306.34 0.0135 0.0041

Mars 89409-11-11 20:24 G 34377341.30 34377341.35 34377341.41 0.1589 0.1363

Uranus 89410-01-03 22:19 G 34377394.28 34377394.43 34377394.61 0.0135 0.0067

Uranus 89410-04-02 05:17 G 34377482.59 34377482.72 34377482.86 0.0135 0.0092

Uranus 89410-06-29 12:00 G 34377570.91 34377571.00 34377571.09 0.0134 0.0117

Mars 89411-10-17 21:36 G 34378046.28 34378046.40 34378046.51 0.1592 0.0054

Earth 89412-10-06 14:39 G 34378401.00 34378401.11 34378401.22 0.2629 0.0578

Moon 89412-10-06 15:22 G 34378401.03 34378401.14 34378401.25 0.2627 0.0479 *

Mars 89413-09-21 23:31 G 34378751.43 34378751.48 34378751.54 0.1599 0.1434

Jupiter 89413-11-08 17:46 G 34378799.12 34378799.24 34378799.37 0.0512 0.0361

Mars 89414-07-30 12:15 G 34379062.87 34379063.01 34379063.15 0.1945 0.1065

Venus 89415-11-19 23:03 G 34379540.38 34379540.46 34379540.54 0.3622 0.2166

Saturn 89416-08-11 11:31 G 34379805.92 34379805.98 34379806.06 0.0265 0.0219

Saturn 89416-11-07 21:36 G 34379894.28 34379894.40 34379894.52 0.0264 0.0112

Saturn 89417-02-04 07:41 G 34379982.69 34379982.82 34379982.95 0.0264 0.0005

Saturn 89417-05-03 17:46 G 34380071.11 34380071.24 34380071.36 0.0263 0.0103

Saturn 89417-07-31 03:51 G 34380159.58 34380159.66 34380159.74 0.0263 0.0210

Jupiter 89419-07-02 09:36 G 34380860.80 34380860.90 34380861.01 0.0514 0.0303

Jupiter 89419-09-29 14:39 G 34380950.02 34380950.11 34380950.20 0.0511 0.0376

Mars 89421-03-09 09:07 G 34381476.77 34381476.88 34381477.00 0.1591 0.0340

Venus 89421-06-04 14:10 G 34381563.98 34381564.09 34381564.19 0.3622 0.0154

Mars 89423-02-12 11:03 G 34382181.87 34382181.96 34382182.04 0.1597 0.1077

Earth 89425-10-09 08:39 G 34383151.76 34383151.86 34383151.97 0.2628 0.0797

Moon 89425-10-09 09:07 G 34383151.78 34383151.88 34383151.99 0.2623 0.0825 *

Jupiter 89425-11-26 00:58 G 34383199.42 34383199.54 34383199.66 0.0514 0.0380

Venus 89426-12-19 05:03 G 34383587.63 34383587.71 34383587.80 0.3621 0.2026

Mars 89430-07-30 20:53 G 34384907.26 34384907.37 34384907.47 0.1590 0.0674

Jupiter 89431-04-20 14:10 G 34385171.04 34385171.09 34385171.15 0.0515 0.0468

Jupiter 89431-07-18 19:12 G 34385260.18 34385260.30 34385260.42 0.0512 0.0211

Saturn 89432-05-28 03:36 G 34385574.54 34385574.65 34385574.76 0.0298 0.0240

Mars 89432-07-04 22:34 G 34385612.33 34385612.44 34385612.54 0.1595 0.0727

Saturn 89432-08-25 05:03 G 34385663.53 34385663.71 34385663.90 0.0298 0.0022

Saturn 89432-11-22 06:15 G 34385752.63 34385752.76 34385752.90 0.0299 0.0197

Mars 89435-04-19 04:05 G 34386630.57 34386630.67 34386630.78 0.1940 0.1489

Moon 89436-04-09 00:58 G 34386986.39 34386986.54 34386986.68 0.2697 0.0584

Earth 89436-04-09 00:58 G 34386986.40 34386986.54 34386986.69 0.2704 0.0570 *

Jupiter 89437-09-13 21:36 G 34387509.23 34387509.40 34387509.58 0.0513 0.0130

Moon 89438-10-12 02:53 G 34387902.56 34387902.62 34387902.68 0.2620 0.2215

Earth 89438-10-12 02:53 G 34387902.56 34387902.62 34387902.69 0.2627 0.2182 *

Mars 89439-12-21 08:39 G 34388337.77 34388337.86 34388337.95 0.1589 0.1006

Mars 89441-11-25 09:51 G 34389042.80 34389042.91 34389043.03 0.1593 0.0374

Jupiter 89443-05-07 00:00 G 34389570.37 34389570.50 34389570.63 0.0513 0.0051

Pluto 89444-03-23 08:10 G 34389891.80 34389891.84 34389891.90 0.0061 0.0059

Pluto 89444-06-19 08:53 G 34389979.78 34389979.87 34389980.00 0.0061 0.0049

Mars 89444-09-07 20:53 G 34390060.20 34390060.37 34390060.53 0.1943 0.0267

Pluto 89444-09-15 10:19 G 34390067.80 34390067.93 34390068.08 0.0061 0.0038

Pluto 89444-12-12 11:17 G 34390155.82 34390155.97 34390156.14 0.0062 0.0028

Pluto 89445-03-10 12:29 G 34390243.85 34390244.02 34390244.19 0.0062 0.0017

Pluto 89445-06-06 13:27 G 34390331.89 34390332.06 34390332.25 0.0062 0.0007

Pluto 89445-09-02 14:39 G 34390419.94 34390420.11 34390420.29 0.0062 0.0004

Earth 89445-10-05 01:27 G 34390452.47 34390452.56 34390452.65 0.2629 0.1653

Moon 89445-10-05 02:10 G 34390452.50 34390452.59 34390452.67 0.2632 0.1619 *

Pluto 89445-11-29 15:36 G 34390507.98 34390508.15 34390508.33 0.0062 0.0015

Saturn 89445-12-29 14:24 G 34390538.06 34390538.10 34390538.15 0.0265 0.0250

Pluto 89446-02-25 16:48 G 34390596.04 34390596.20 34390596.36 0.0062 0.0025

Saturn 89446-03-28 00:15 G 34390626.41 34390626.51 34390626.63 0.0264 0.0144

Pluto 89446-05-24 17:31 G 34390684.10 34390684.23 34390684.39 0.0062 0.0036

Saturn 89446-06-24 10:19 G 34390714.80 34390714.93 34390715.07 0.0264 0.0037

Pluto 89446-08-20 18:58 G 34390772.18 34390772.29 34390772.41 0.0062 0.0046

Saturn 89446-09-20 20:24 G 34390803.22 34390803.35 34390803.48 0.0263 0.0071

Pluto 89446-11-16 19:41 G 34390860.27 34390860.32 34390860.40 0.0062 0.0057

Saturn 89446-12-18 06:29 G 34390891.67 34390891.77 34390891.87 0.0263 0.0178

Moon 89449-04-12 04:48 G 34391737.60 34391737.70 34391737.80 0.2701 0.1933

Earth 89449-04-12 06:15 G 34391737.67 34391737.76 34391737.84 0.2705 0.2158 *

Mars 89449-05-12 20:24 G 34391768.29 34391768.35 34391768.41 0.1589 0.1333

Jupiter 89449-07-02 18:00 G 34391819.08 34391819.25 34391819.43 0.0513 0.0125

Uranus 89450-07-27 08:39 G 34392208.82 34392208.86 34392208.90 0.0143 0.0137

Uranus 89450-10-23 12:15 G 34392296.93 34392297.01 34392297.09 0.0143 0.0115

Uranus 89451-01-19 15:51 G 34392385.06 34392385.16 34392385.26 0.0143 0.0093

Uranus 89451-04-17 19:27 G 34392473.20 34392473.31 34392473.43 0.0143 0.0071

Mars 89451-04-17 21:36 G 34392473.28 34392473.40 34392473.51 0.1592 0.0069 *

Uranus 89451-07-14 23:17 G 34392561.34 34392561.47 34392561.59 0.0143 0.0049

Uranus 89451-10-11 02:53 G 34392649.49 34392649.62 34392649.75 0.0144 0.0026

Uranus 89452-01-07 06:43 G 34392737.64 34392737.78 34392737.91 0.0144 0.0005

Uranus 89452-04-04 10:19 G 34392825.80 34392825.93 34392826.07 0.0144 0.0019

Uranus 89452-07-01 14:10 G 34392913.96 34392914.09 34392914.22 0.0144 0.0042

Uranus 89452-09-27 17:46 G 34393002.13 34393002.24 34393002.37 0.0144 0.0065

Uranus 89452-12-24 21:36 G 34393090.30 34393090.40 34393090.51 0.0144 0.0087

Venus 89453-02-09 12:29 G 34393136.87 34393137.02 34393137.17 0.3751 0.1212

Mars 89453-03-22 23:31 G 34393178.44 34393178.48 34393178.53 0.1599 0.1461

Uranus 89453-03-23 01:12 G 34393178.48 34393178.55 34393178.65 0.0144 0.0111 *

Uranus 89453-06-19 05:03 G 34393266.68 34393266.71 34393266.77 0.0144 0.0134

Mars 89454-01-28 13:12 G 34393489.91 34393490.05 34393490.20 0.1945 0.0985

Jupiter 89455-02-23 04:34 G 34393880.56 34393880.69 34393880.81 0.0513 0.0116

Earth 89458-10-07 19:27 G 34395203.20 34395203.31 34395203.42 0.2628 0.0306

Moon 89458-10-07 20:10 G 34395203.23 34395203.34 34395203.46 0.2627 0.0191 *

Mars 89460-09-07 09:07 G 34395903.77 34395903.88 34395904.00 0.1591 0.0308

Jupiter 89461-04-20 15:22 G 34396129.02 34396129.14 34396129.27 0.0513 0.0364

Saturn 89462-01-12 01:55 G 34396395.41 34396395.58 34396395.76 0.0298 0.0093

Saturn 89462-04-11 03:22 G 34396484.47 34396484.64 34396484.80 0.0299 0.0126

Mars 89462-08-13 11:03 G 34396608.87 34396608.96 34396609.04 0.1597 0.1110

Venus 89466-12-11 05:31 G 34398189.70 34398189.73 34398189.75 0.3623 0.3468

Jupiter 89466-12-12 08:10 G 34398190.74 34398190.84 34398190.95 0.0514 0.0301

Jupiter 89467-03-11 13:12 G 34398279.96 34398280.05 34398280.13 0.0511 0.0379

Neptune 89468-02-25 20:10 G 34398631.30 34398631.34 34398631.39 0.0088 0.0082

Neptune 89468-05-23 21:22 G 34398719.33 34398719.39 34398719.47 0.0088 0.0075

Neptune 89468-08-19 22:48 G 34398807.37 34398807.45 34398807.54 0.0088 0.0068

Neptune 89468-11-16 00:00 G 34398895.42 34398895.50 34398895.61 0.0088 0.0061

Neptune 89469-02-12 01:27 G 34398983.46 34398983.56 34398983.67 0.0088 0.0054

Neptune 89469-05-11 02:39 G 34399071.51 34399071.61 34399071.74 0.0088 0.0047

Neptune 89469-08-07 04:05 G 34399159.56 34399159.67 34399159.80 0.0088 0.0040

Neptune 89469-11-03 05:31 G 34399247.61 34399247.73 34399247.86 0.0088 0.0032

Mars 89470-01-28 20:53 G 34399334.26 34399334.37 34399334.48 0.1590 0.0642

Neptune 89470-01-30 06:58 G 34399335.66 34399335.79 34399335.92 0.0088 0.0025

Neptune 89470-04-28 08:24 G 34399423.72 34399423.85 34399423.98 0.0088 0.0018

Neptune 89470-07-25 09:51 G 34399511.77 34399511.91 34399512.04 0.0088 0.0011

Neptune 89470-10-21 11:03 G 34399599.83 34399599.96 34399600.10 0.0088 0.0004

Neptune 89471-01-17 12:29 G 34399687.88 34399688.02 34399688.16 0.0088 0.0004

Neptune 89471-04-15 13:55 G 34399775.94 34399776.08 34399776.21 0.0088 0.0011

Neptune 89471-07-12 15:07 G 34399864.00 34399864.13 34399864.27 0.0088 0.0019

Neptune 89471-10-08 16:34 G 34399952.06 34399952.19 34399952.32 0.0088 0.0026

Earth 89471-10-10 13:41 G 34399953.96 34399954.07 34399954.17 0.2628 0.1069

Moon 89471-10-10 13:55 G 34399953.98 34399954.08 34399954.18 0.2622 0.1123 *

Mars 89472-01-03 22:19 G 34400039.33 34400039.43 34400039.54 0.1595 0.0757

Neptune 89472-01-04 18:00 G 34400040.12 34400040.25 34400040.38 0.0088 0.0033

Neptune 89472-04-01 19:27 G 34400128.19 34400128.31 34400128.43 0.0088 0.0040

Venus 89472-06-25 20:24 G 34400213.25 34400213.35 34400213.44 0.3622 0.1408

Neptune 89472-06-28 20:39 G 34400216.25 34400216.36 34400216.48 0.0088 0.0048

Neptune 89472-09-24 22:05 G 34400304.32 34400304.42 34400304.53 0.0088 0.0055

Neptune 89472-12-21 23:31 G 34400392.39 34400392.48 34400392.58 0.0088 0.0062

Neptune 89473-03-20 00:43 G 34400480.46 34400480.53 34400480.62 0.0088 0.0070

Jupiter 89473-05-07 23:46 G 34400529.38 34400529.49 34400529.60 0.0514 0.0396

Neptune 89473-06-16 02:10 G 34400568.54 34400568.59 34400568.66 0.0088 0.0077

Neptune 89473-09-12 03:36 G 34400656.62 34400656.65 34400656.69 0.0088 0.0084

Mars 89474-10-18 05:03 G 34401057.61 34401057.71 34401057.80 0.1940 0.1563

Saturn 89475-08-15 03:36 G 34401358.55 34401358.65 34401358.75 0.0265 0.0170

Saturn 89475-11-11 13:41 G 34401446.94 34401447.07 34401447.20 0.0264 0.0063

Saturn 89476-02-07 23:31 G 34401535.35 34401535.48 34401535.62 0.0263 0.0045

Saturn 89476-05-06 09:36 G 34401623.79 34401623.90 34401624.01 0.0263 0.0151

Saturn 89476-08-02 19:41 G 34401712.31 34401712.32 34401712.35 0.0262 0.0259

Venus 89478-01-09 11:17 G 34402236.87 34402236.97 34402237.07 0.3622 0.0693

Jupiter 89478-09-30 12:43 G 34402500.98 34402501.03 34402501.08 0.0514 0.0470

Jupiter 89478-12-28 17:31 G 34402590.11 34402590.23 34402590.35 0.0512 0.0209

Mars 89479-06-21 08:39 G 34402764.77 34402764.86 34402764.95 0.1589 0.0973

Mars 89481-05-26 09:51 G 34403469.80 34403469.91 34403470.03 0.1593 0.0410

Moon 89482-04-10 06:58 G 34403788.64 34403788.79 34403788.94 0.2698 0.0087

Earth 89482-04-10 07:27 G 34403788.66 34403788.81 34403788.96 0.2704 0.0060 *

Venus 89483-07-26 02:24 G 34404260.54 34404260.60 34404260.66 0.3621 0.2791

Mars 89484-03-08 21:51 G 34404487.25 34404487.41 34404487.57 0.1943 0.0348

Moon 89484-10-12 07:41 G 34404704.78 34404704.82 34404704.87 0.2621 0.2390

Earth 89484-10-12 07:55 G 34404704.79 34404704.83 34404704.86 0.2627 0.2466 *

Jupiter 89485-02-23 20:10 G 34404839.17 34404839.34 34404839.52 0.0513 0.0143

Mars 89488-11-10 20:24 G 34406195.28 34406195.35 34406195.41 0.1589 0.1305

Mars 89490-10-16 21:36 G 34406900.28 34406900.40 34406900.51 0.1592 0.0089

Jupiter 89490-10-16 22:05 G 34406900.29 34406900.42 34406900.55 0.0513 0.0044 *

Saturn 89491-06-01 00:00 G 34407127.35 34407127.50 34407127.66 0.0298 0.0156

Saturn 89491-08-29 01:27 G 34407216.39 34407216.56 34407216.74 0.0299 0.0064

Earth 89491-10-06 06:15 G 34407254.67 34407254.76 34407254.86 0.2629 0.1386

Moon 89491-10-06 06:58 G 34407254.69 34407254.79 34407254.89 0.2631 0.1232 *

Saturn 89491-11-26 02:39 G 34407305.55 34407305.61 34407305.67 0.0300 0.0280

Uranus 89492-05-16 05:31 G 34407477.62 34407477.73 34407477.84 0.0135 0.0109

Uranus 89492-08-12 12:15 G 34407565.87 34407566.01 34407566.17 0.0135 0.0083

Mars 89492-09-20 23:31 G 34407605.45 34407605.48 34407605.52 0.1599 0.1498

Uranus 89492-11-08 19:12 G 34407654.14 34407654.30 34407654.48 0.0135 0.0057

Uranus 89493-02-05 02:10 G 34407742.42 34407742.59 34407742.78 0.0135 0.0031

Uranus 89493-05-04 09:22 G 34407830.70 34407830.89 34407831.08 0.0135 0.0004

Mars 89493-07-29 13:55 G 34407916.94 34407917.08 34407917.23 0.1945 0.0913

Uranus 89493-07-31 16:05 G 34407918.99 34407919.17 34407919.36 0.0135 0.0022

Uranus 89493-10-27 23:03 G 34408007.28 34408007.46 34408007.63 0.0135 0.0048

Uranus 89494-01-24 05:31 G 34408095.59 34408095.73 34408095.90 0.0134 0.0074

Uranus 89494-04-22 12:15 G 34408183.90 34408184.01 34408184.15 0.0134 0.0099

Uranus 89494-07-19 18:58 G 34408272.24 34408272.29 34408272.37 0.0134 0.0125

Moon 89495-04-13 11:03 G 34408539.91 34408539.96 34408540.01 0.2701 0.2511

Earth 89495-04-13 12:29 G 34408540.00 34408540.02 34408540.04 0.2705 0.2658 *

Jupiter 89496-12-12 16:48 G 34409149.03 34409149.20 34409149.38 0.0513 0.0108

Mars 89500-03-09 09:07 G 34410330.76 34410330.88 34410331.00 0.1591 0.0279

Mars 89502-02-12 11:03 G 34411035.87 34411035.96 34411036.04 0.1597 0.1138

Jupiter 89502-08-06 02:53 G 34411210.50 34411210.62 34411210.75 0.0513 0.0116

Earth 89504-10-09 00:15 G 34412005.40 34412005.51 34412005.63 0.2628 0.0115

Moon 89504-10-09 01:12 G 34412005.43 34412005.55 34412005.66 0.2626 0.0114 *

Saturn 89505-01-02 06:15 G 34412090.68 34412090.76 34412090.84 0.0264 0.0203

Saturn 89505-03-31 16:05 G 34412179.05 34412179.17 34412179.30 0.0264 0.0097

Saturn 89505-06-28 02:10 G 34412267.46 34412267.59 34412267.72 0.0263 0.0011

Saturn 89505-09-24 12:15 G 34412355.89 34412356.01 34412356.13 0.0263 0.0117

Saturn 89505-12-21 22:05 G 34412444.36 34412444.42 34412444.50 0.0262 0.0225

Jupiter 89508-10-01 13:12 G 34413458.93 34413459.05 34413459.18 0.0512 0.0362

Mars 89509-07-30 20:53 G 34413761.26 34413761.37 34413761.48 0.1590 0.0612

Mars 89511-07-05 22:19 G 34414466.33 34414466.43 34414466.54 0.1595 0.0787

Mars 89514-04-19 05:46 G 34415484.66 34415484.74 34415484.83 0.1941 0.1636

Jupiter 89514-05-25 07:41 G 34415520.71 34415520.82 34415520.92 0.0514 0.0279

Jupiter 89514-08-22 12:29 G 34415609.94 34415610.02 34415610.10 0.0511 0.0400

Earth 89515-04-09 08:24 G 34415839.78 34415839.85 34415839.93 0.2704 0.2320

Moon 89515-04-09 08:53 G 34415839.78 34415839.87 34415839.96 0.2696 0.2164 *

Earth 89517-10-11 18:29 G 34416756.17 34416756.27 34416756.37 0.2628 0.1346

Moon 89517-10-11 18:43 G 34416756.18 34416756.28 34416756.38 0.2621 0.1380 *

Mars 89518-12-21 08:39 G 34417191.76 34417191.86 34417191.95 0.1589 0.0945

Saturn 89520-10-18 19:55 G 34417859.22 34417859.33 34417859.44 0.0297 0.0235

Jupiter 89520-10-18 21:51 G 34417859.30 34417859.41 34417859.52 0.0514 0.0401 *

Mars 89520-11-25 09:51 G 34417896.80 34417896.91 34417897.03 0.1594 0.0441

Saturn 89521-01-15 21:36 G 34417948.21 34417948.40 34417948.58 0.0298 0.0016

Saturn 89521-04-14 22:34 G 34418037.32 34418037.44 34418037.58 0.0299 0.0202

Venus 89523-07-19 02:39 G 34418862.54 34418862.61 34418862.68 0.3622 0.2715

Mars 89523-09-08 22:48 G 34418914.29 34418914.45 34418914.61 0.1943 0.0432

Earth 89524-10-04 17:17 G 34419306.18 34419306.22 34419306.25 0.2630 0.2454

Moon 89524-10-04 17:31 G 34419306.18 34419306.23 34419306.28 0.2635 0.2354 *

Jupiter 89526-03-13 11:17 G 34419830.92 34419830.97 34419831.03 0.0514 0.0462

Jupiter 89526-06-10 16:19 G 34419920.06 34419920.18 34419920.29 0.0512 0.0216

Moon 89528-04-11 12:58 G 34420590.89 34420591.04 34420591.19 0.2699 0.0295

Earth 89528-04-11 13:55 G 34420590.93 34420591.08 34420591.22 0.2705 0.0469 *

Mars 89528-05-12 20:24 G 34420622.28 34420622.35 34420622.42 0.1588 0.1272

Venus 89529-01-31 17:31 G 34420886.13 34420886.23 34420886.33 0.3622 0.0653

Mars 89530-04-17 21:22 G 34421327.28 34421327.39 34421327.51 0.1592 0.0105

Mars 89532-03-22 23:31 G 34422032.45 34422032.48 34422032.52 0.1599 0.1528

Jupiter 89532-08-06 19:27 G 34422169.14 34422169.31 34422169.48 0.0514 0.0166

Mars 89533-01-28 14:53 G 34422343.97 34422344.12 34422344.27 0.1945 0.0838

Saturn 89534-05-22 09:07 G 34422822.83 34422822.88 34422822.95 0.0265 0.0233

Venus 89534-08-17 08:39 G 34422909.77 34422909.86 34422909.95 0.3621 0.1456

Uranus 89534-08-17 15:36 G 34422910.11 34422910.15 34422910.21 0.0143 0.0132

Saturn 89534-08-18 19:12 G 34422911.18 34422911.30 34422911.41 0.0264 0.0126

Uranus 89534-11-13 19:27 G 34422998.23 34422998.31 34422998.40 0.0143 0.0109

Saturn 89534-11-15 05:03 G 34422999.58 34422999.71 34422999.85 0.0264 0.0020

Uranus 89535-02-09 23:03 G 34423086.36 34423086.46 34423086.57 0.0143 0.0087

Saturn 89535-02-11 15:07 G 34423088.00 34423088.13 34423088.26 0.0263 0.0088

Uranus 89535-05-09 02:53 G 34423174.50 34423174.62 34423174.74 0.0143 0.0065

Saturn 89535-05-11 01:12 G 34423176.46 34423176.55 34423176.64 0.0262 0.0195

Uranus 89535-08-05 06:29 G 34423262.65 34423262.77 34423262.90 0.0143 0.0043

Uranus 89535-11-01 10:19 G 34423350.79 34423350.93 34423351.06 0.0143 0.0020

Uranus 89536-01-28 13:55 G 34423438.95 34423439.08 34423439.22 0.0144 0.0003

Uranus 89536-04-25 17:46 G 34423527.11 34423527.24 34423527.37 0.0144 0.0025

Uranus 89536-07-22 21:22 G 34423615.27 34423615.39 34423615.52 0.0144 0.0048

Uranus 89536-10-19 01:12 G 34423703.43 34423703.55 34423703.67 0.0144 0.0071

Pluto 89536-10-22 05:46 G 34423706.66 34423706.74 34423706.84 0.0083 0.0065

Uranus 89537-01-15 04:48 G 34423791.61 34423791.70 34423791.81 0.0144 0.0094

Pluto 89537-01-18 07:12 G 34423794.69 34423794.80 34423794.93 0.0083 0.0045

Uranus 89537-04-13 08:39 G 34423879.79 34423879.86 34423879.95 0.0144 0.0117

Pluto 89537-04-16 08:39 G 34423882.73 34423882.86 34423883.00 0.0082 0.0024

Uranus 89537-07-10 12:29 G 34423968.00 34423968.02 34423968.06 0.0144 0.0140

Pluto 89537-07-13 10:05 G 34423970.78 34423970.92 34423971.06 0.0082 0.0004

Earth 89537-10-07 11:03 G 34424056.86 34424056.96 34424057.07 0.2629 0.1123

Moon 89537-10-07 12:00 G 34424056.89 34424057.00 34424057.10 0.2630 0.1086 *

Pluto 89537-10-09 11:31 G 34424058.84 34424058.98 34424059.12 0.0082 0.0016

Pluto 89538-01-05 12:43 G 34424146.91 34424147.03 34424147.16 0.0082 0.0036

Jupiter 89538-03-29 20:39 G 34424230.23 34424230.36 34424230.49 0.0513 0.0047

Pluto 89538-04-03 14:10 G 34424234.99 34424235.09 34424235.19 0.0082 0.0056

Pluto 89538-06-30 15:36 G 34424323.10 34424323.15 34424323.20 0.0082 0.0076

Mars 89539-09-08 09:07 G 34424757.76 34424757.88 34424758.00 0.1591 0.0244

Venus 89540-03-01 23:46 G 34424933.47 34424933.49 34424933.50 0.3621 0.3570

Mars 89541-08-13 11:03 G 34425462.88 34425462.96 34425463.04 0.1597 0.1172

Jupiter 89544-05-25 16:05 G 34426478.99 34426479.17 34426479.35 0.0513 0.0086

Mars 89549-01-28 20:39 G 34428188.26 34428188.36 34428188.47 0.1590 0.0587

Jupiter 89550-01-16 01:12 G 34428540.43 34428540.55 34428540.68 0.0514 0.0119

Saturn 89550-06-04 18:43 G 34428680.11 34428680.28 34428680.46 0.0298 0.0087

Saturn 89550-09-01 20:10 G 34428769.18 34428769.34 34428769.51 0.0299 0.0132

Earth 89550-10-10 05:17 G 34428807.61 34428807.72 34428807.83 0.2628 0.0243

Moon 89550-10-10 05:46 G 34428807.63 34428807.74 34428807.86 0.2625 0.0383 *

Mars 89551-01-03 22:19 G 34428893.33 34428893.43 34428893.54 0.1595 0.0821

Neptune 89551-08-17 18:15 G 34429119.20 34429119.26 34429119.35 0.0090 0.0082

Neptune 89551-11-13 21:51 G 34429207.30 34429207.41 34429207.53 0.0090 0.0071

Neptune 89552-02-10 01:27 G 34429295.42 34429295.56 34429295.70 0.0090 0.0060

Neptune 89552-05-08 04:34 G 34429383.55 34429383.69 34429383.87 0.0090 0.0050

Neptune 89552-08-04 08:10 G 34429471.68 34429471.84 34429472.02 0.0090 0.0039

Neptune 89552-10-31 11:46 G 34429559.82 34429559.99 34429560.17 0.0090 0.0028

Neptune 89553-01-27 15:22 G 34429647.95 34429648.14 34429648.32 0.0090 0.0017

Neptune 89553-04-25 18:43 G 34429736.09 34429736.28 34429736.47 0.0090 0.0006

Neptune 89553-07-22 22:05 G 34429824.24 34429824.42 34429824.61 0.0090 0.0005

Mars 89553-10-18 06:29 G 34429911.70 34429911.77 34429911.85 0.1940 0.1708

Neptune 89553-10-19 01:27 G 34429912.38 34429912.56 34429912.75 0.0090 0.0015

Neptune 89554-01-15 04:48 G 34430000.53 34430000.70 34430000.89 0.0090 0.0026

Neptune 89554-04-13 07:55 G 34430088.68 34430088.83 34430089.02 0.0090 0.0037

Neptune 89554-07-10 11:31 G 34430176.83 34430176.98 34430177.15 0.0090 0.0047

Neptune 89554-10-06 14:39 G 34430264.99 34430265.11 34430265.27 0.0090 0.0058

Neptune 89555-01-02 18:15 G 34430353.15 34430353.26 34430353.39 0.0090 0.0068

Neptune 89555-03-31 21:22 G 34430441.32 34430441.39 34430441.50 0.0090 0.0079

Neptune 89555-06-28 00:43 G 34430529.52 34430529.53 34430529.57 0.0090 0.0089

Jupiter 89556-03-13 12:29 G 34430788.89 34430789.02 34430789.16 0.0512 0.0336

Mars 89558-06-21 08:24 G 34431618.76 34431618.85 34431618.95 0.1589 0.0917

Mars 89560-05-26 09:51 G 34432323.80 34432323.91 34432324.02 0.1593 0.0467

Venus 89560-10-08 06:00 G 34432458.62 34432458.75 34432458.89 0.3751 0.1954

Earth 89561-04-09 14:53 G 34432642.01 34432642.12 34432642.23 0.2704 0.1793

Moon 89561-04-09 15:07 G 34432642.02 34432642.13 34432642.24 0.2697 0.1856 *

Jupiter 89561-11-04 06:15 G 34432850.65 34432850.76 34432850.87 0.0514 0.0275

Jupiter 89562-02-01 11:17 G 34432939.89 34432939.97 34432940.04 0.0512 0.0405

Mars 89563-03-09 23:17 G 34433341.31 34433341.47 34433341.63 0.1943 0.0488

Moon 89563-10-12 23:31 G 34433558.39 34433558.48 34433558.57 0.2621 0.1622

Earth 89563-10-12 23:31 G 34433558.39 34433558.48 34433558.56 0.2628 0.1629 *

Saturn 89564-01-05 21:36 G 34433643.29 34433643.40 34433643.50 0.0264 0.0161

Saturn 89564-04-03 07:27 G 34433731.68 34433731.81 34433731.94 0.0264 0.0055

Saturn 89564-06-30 17:31 G 34433820.10 34433820.23 34433820.36 0.0263 0.0053

Saturn 89564-09-27 03:22 G 34433908.54 34433908.64 34433908.75 0.0262 0.0159

Mars 89567-11-11 20:24 G 34435049.28 34435049.35 34435049.42 0.1589 0.1243

Jupiter 89568-03-30 20:10 G 34435189.23 34435189.34 34435189.45 0.0514 0.0410

Mars 89569-10-16 21:22 G 34435754.28 34435754.39 34435754.51 0.1592 0.0137

Earth 89570-10-05 22:05 G 34436108.36 34436108.42 34436108.48 0.2630 0.2191

Moon 89570-10-05 22:34 G 34436108.38 34436108.44 34436108.50 0.2634 0.2177 *

Mars 89571-09-21 23:31 G 34436459.46 34436459.48 34436459.50 0.1599 0.1556

Mars 89572-07-29 16:05 G 34436771.01 34436771.17 34436771.32 0.1945 0.0747

Jupiter 89573-08-23 11:03 G 34437160.89 34437160.96 34437161.02 0.0515 0.0437

Jupiter 89573-11-20 15:51 G 34437250.05 34437250.16 34437250.27 0.0512 0.0242

Moon 89574-04-12 19:12 G 34437393.16 34437393.30 34437393.44 0.2699 0.0939

Earth 89574-04-12 20:24 G 34437393.21 34437393.35 34437393.48 0.2705 0.0989 *

Uranus 89576-03-10 05:31 G 34438090.68 34438090.73 34438090.80 0.0135 0.0128

Uranus 89576-06-06 12:43 G 34438178.91 34438179.03 34438179.16 0.0135 0.0101

Uranus 89576-09-02 19:41 G 34438267.17 34438267.32 34438267.49 0.0135 0.0075

Uranus 89576-11-30 02:53 G 34438355.44 34438355.62 34438355.80 0.0135 0.0048

Uranus 89577-02-26 09:51 G 34438443.72 34438443.91 34438444.09 0.0135 0.0022

Mars 89577-04-03 08:10 G 34438479.83 34438479.84 34438479.85 0.1588 0.1569

Uranus 89577-05-25 16:34 G 34438532.01 34438532.19 34438532.38 0.0135 0.0006

Uranus 89577-08-21 23:31 G 34438620.30 34438620.48 34438620.67 0.0134 0.0030

Uranus 89577-11-18 06:15 G 34438708.60 34438708.76 34438708.94 0.0134 0.0056

Uranus 89578-02-14 12:58 G 34438796.90 34438797.04 34438797.20 0.0134 0.0082

Uranus 89578-05-13 19:41 G 34438885.22 34438885.32 34438885.44 0.0134 0.0107

Uranus 89578-08-10 02:24 G 34438973.58 34438973.60 34438973.64 0.0134 0.0133

Mars 89579-03-09 09:07 G 34439184.76 34439184.88 34439185.00 0.1591 0.0215

Saturn 89579-10-22 13:55 G 34439411.93 34439412.08 34439412.23 0.0298 0.0173

Jupiter 89580-01-17 18:00 G 34439499.08 34439499.25 34439499.42 0.0514 0.0177

Saturn 89580-01-19 15:22 G 34439500.97 34439501.14 34439501.33 0.0298 0.0048

Venus 89580-02-23 00:00 G 34439535.41 34439535.50 34439535.58 0.3622 0.1952

Saturn 89580-04-17 16:34 G 34439590.11 34439590.19 34439590.28 0.0299 0.0264

Mars 89581-02-11 11:03 G 34439889.88 34439889.96 34439890.03 0.1597 0.1204

Earth 89583-10-08 16:05 G 34440859.06 34440859.17 34440859.27 0.2629 0.0853

Moon 89583-10-08 16:48 G 34440859.09 34440859.20 34440859.31 0.2630 0.0678 *

Venus 89585-09-07 14:53 G 34441559.02 34441559.12 34441559.22 0.3622 0.0151

Jupiter 89585-09-08 19:41 G 34441560.19 34441560.32 34441560.45 0.0513 0.0059

Mars 89588-07-29 20:53 G 34442615.26 34442615.37 34442615.48 0.1590 0.0554

Mars 89590-07-04 22:19 G 34443320.33 34443320.43 34443320.53 0.1595 0.0850

Venus 89591-03-24 06:00 G 34443582.67 34443582.75 34443582.83 0.3621 0.2235

Jupiter 89591-11-05 15:36 G 34443808.97 34443809.15 34443809.33 0.0513 0.0056

Mars 89593-04-18 07:12 G 34444338.74 34444338.80 34444338.87 0.1940 0.1782

Saturn 89593-05-25 00:15 G 34444375.42 34444375.51 34444375.60 0.0265 0.0194

Saturn 89593-08-21 10:05 G 34444463.80 34444463.92 34444464.05 0.0264 0.0087

Saturn 89593-11-17 20:10 G 34444552.21 34444552.34 34444552.47 0.0263 0.0020

Saturn 89594-02-14 06:15 G 34444640.64 34444640.76 34444640.87 0.0263 0.0127

Saturn 89594-05-13 16:05 G 34444729.12 34444729.17 34444729.24 0.0262 0.0234

Earth 89596-10-10 10:05 G 34445609.81 34445609.92 34445610.03 0.2628 0.0519

Moon 89596-10-10 10:34 G 34445609.83 34445609.94 34445610.06 0.2624 0.0531 *

Jupiter 89597-06-28 00:15 G 34445870.38 34445870.51 34445870.63 0.0513 0.0111

Mars 89597-12-20 08:39 G 34446045.76 34446045.86 34446045.95 0.1589 0.0886

Mars 89599-11-25 09:51 G 34446750.80 34446750.91 34446751.02 0.1593 0.0502

Mars 89602-09-08 00:15 G 34447768.36 34447768.51 34447768.67 0.1943 0.0580

Jupiter 89603-08-24 12:15 G 34448118.86 34448119.01 34448119.15 0.0512 0.0306

Moon 89607-04-10 21:07 G 34449444.25 34449444.38 34449444.52 0.2697 0.1190

Earth 89607-04-10 21:22 G 34449444.26 34449444.39 34449444.52 0.2704 0.1268 *

Mars 89607-05-12 20:10 G 34449476.27 34449476.34 34449476.42 0.1588 0.1217

Saturn 89609-03-10 10:48 G 34450143.85 34450143.95 34450144.05 0.0298 0.0247

Jupiter 89609-04-16 04:48 G 34450180.59 34450180.70 34450180.81 0.0514 0.0273

Mars 89609-04-16 21:22 G 34450181.27 34450181.39 34450181.51 0.1592 0.0159

Saturn 89609-06-07 12:29 G 34450232.83 34450233.02 34450233.20 0.0299 0.0028

Jupiter 89609-07-14 09:36 G 34450269.83 34450269.90 34450269.98 0.0512 0.0408

Saturn 89609-09-04 13:41 G 34450321.93 34450322.07 34450322.21 0.0299 0.0192

Earth 89609-10-13 04:19 G 34450360.60 34450360.68 34450360.76 0.2628 0.1903

Moon 89609-10-13 04:19 G 34450360.61 34450360.68 34450360.76 0.2621 0.1949 *

Mars 89611-03-22 23:31 G 34450886.48 34450886.48 34450886.49 0.1599 0.1593

Mars 89612-01-28 16:19 G 34451198.03 34451198.18 34451198.34 0.1945 0.0688

Jupiter 89615-09-10 19:41 G 34452519.24 34452519.32 34452519.42 0.0514 0.0442

Mars 89616-10-02 08:10 G 34452906.81 34452906.84 34452906.86 0.1588 0.1539

Earth 89616-10-06 02:53 G 34452910.55 34452910.62 34452910.70 0.2630 0.1924

Moon 89616-10-06 03:36 G 34452910.57 34452910.65 34452910.73 0.2633 0.1819 *

Venus 89617-05-15 08:53 G 34453131.72 34453131.87 34453132.02 0.3751 0.0917

Uranus 89618-09-06 22:48 G 34453611.39 34453611.45 34453611.51 0.0143 0.0127

Mars 89618-09-07 09:07 G 34453611.76 34453611.88 34453611.99 0.1591 0.0191

Uranus 89618-12-04 02:24 G 34453699.52 34453699.60 34453699.69 0.0143 0.0105

Uranus 89619-03-02 06:15 G 34453787.65 34453787.76 34453787.86 0.0143 0.0083

Uranus 89619-05-29 09:51 G 34453875.79 34453875.91 34453876.03 0.0143 0.0061

Uranus 89619-08-25 13:27 G 34453963.93 34453964.06 34453964.19 0.0143 0.0038

Uranus 89619-11-21 17:17 G 34454052.08 34454052.22 34454052.35 0.0143 0.0016

Uranus 89620-02-17 20:53 G 34454140.24 34454140.37 34454140.51 0.0143 0.0007

Moon 89620-04-13 01:41 G 34454195.43 34454195.57 34454195.70 0.2699 0.1256

Earth 89620-04-13 02:39 G 34454195.49 34454195.61 34454195.73 0.2705 0.1497 *

Uranus 89620-05-16 00:43 G 34454228.40 34454228.53 34454228.66 0.0144 0.0029

Uranus 89620-08-12 04:19 G 34454316.56 34454316.68 34454316.81 0.0144 0.0052

Mars 89620-08-12 10:48 G 34454316.88 34454316.95 34454317.03 0.1597 0.1234

Uranus 89620-11-08 08:10 G 34454404.73 34454404.84 34454404.96 0.0144 0.0075

Jupiter 89621-02-02 09:36 G 34454490.84 34454490.90 34454490.97 0.0515 0.0431

Uranus 89621-02-04 12:00 G 34454492.90 34454493.00 34454493.10 0.0144 0.0098

Jupiter 89621-05-02 14:39 G 34454579.99 34454580.11 34454580.22 0.0512 0.0249

Uranus 89621-05-03 15:51 G 34454581.09 34454581.16 34454581.23 0.0144 0.0121

Saturn 89622-10-12 02:24 G 34455107.54 34455107.60 34455107.67 0.0265 0.0230

Saturn 89623-01-08 12:29 G 34455195.90 34455196.02 34455196.14 0.0264 0.0123

Saturn 89623-04-06 22:19 G 34455284.30 34455284.43 34455284.57 0.0263 0.0017

Saturn 89623-07-04 08:24 G 34455372.72 34455372.85 34455372.97 0.0263 0.0090

Saturn 89623-09-30 18:15 G 34455461.18 34455461.26 34455461.36 0.0262 0.0198

Jupiter 89627-06-29 16:34 G 34456829.02 34456829.19 34456829.36 0.0513 0.0193

Mars 89628-01-28 20:39 G 34457042.25 34457042.36 34457042.47 0.1590 0.0522

Earth 89629-10-08 20:53 G 34457661.26 34457661.37 34457661.48 0.2629 0.0579

Moon 89629-10-08 21:36 G 34457661.29 34457661.40 34457661.51 0.2629 0.0542 *

Mars 89630-01-02 22:19 G 34457747.33 34457747.43 34457747.53 0.1595 0.0879

Venus 89631-03-16 06:15 G 34458184.72 34458184.76 34458184.80 0.3622 0.3247

Neptune 89632-08-26 18:15 G 34458714.25 34458714.26 34458714.29 0.0088 0.0086

Mars 89632-10-17 08:10 G 34458765.80 34458765.84 34458765.89 0.1941 0.1855

Neptune 89632-11-22 19:41 G 34458802.27 34458802.32 34458802.38 0.0088 0.0079

Jupiter 89633-02-18 19:12 G 34458890.18 34458890.30 34458890.43 0.0513 0.0090

Neptune 89633-02-18 20:53 G 34458890.31 34458890.37 34458890.46 0.0088 0.0072 *

Neptune 89633-05-17 22:19 G 34458978.35 34458978.43 34458978.53 0.0088 0.0065

Neptune 89633-08-13 23:31 G 34459066.39 34459066.48 34459066.59 0.0088 0.0058

Neptune 89633-11-10 00:58 G 34459154.44 34459154.54 34459154.66 0.0088 0.0051

Neptune 89634-02-06 02:24 G 34459242.49 34459242.60 34459242.72 0.0088 0.0043

Neptune 89634-05-05 03:36 G 34459330.54 34459330.65 34459330.78 0.0088 0.0037

Neptune 89634-08-01 05:17 G 34459418.59 34459418.72 34459418.85 0.0088 0.0029

Neptune 89634-10-28 06:29 G 34459506.64 34459506.77 34459506.91 0.0088 0.0022

Neptune 89635-01-24 07:55 G 34459594.70 34459594.83 34459594.97 0.0088 0.0015

Neptune 89635-04-22 09:22 G 34459682.75 34459682.89 34459683.02 0.0088 0.0007

Neptune 89635-07-19 10:48 G 34459770.81 34459770.95 34459771.08 0.0088 0.0003

Neptune 89635-10-15 12:00 G 34459858.87 34459859.00 34459859.14 0.0088 0.0007

Neptune 89636-01-11 13:27 G 34459946.93 34459947.06 34459947.19 0.0088 0.0014

Neptune 89636-04-08 14:39 G 34460034.99 34460035.11 34460035.25 0.0088 0.0022

Neptune 89636-07-05 16:05 G 34460123.05 34460123.17 34460123.30 0.0088 0.0029

Venus 89636-09-28 21:07 G 34460208.29 34460208.38 34460208.48 0.3622 0.1188

Neptune 89636-10-01 17:31 G 34460211.11 34460211.23 34460211.36 0.0088 0.0036

Neptune 89636-12-28 18:43 G 34460299.17 34460299.28 34460299.41 0.0088 0.0044

Neptune 89637-03-26 20:10 G 34460387.24 34460387.34 34460387.46 0.0088 0.0051

Mars 89637-06-20 08:24 G 34460472.76 34460472.85 34460472.95 0.1589 0.0856

Neptune 89637-06-22 21:36 G 34460475.30 34460475.40 34460475.51 0.0088 0.0058

Neptune 89637-09-18 22:48 G 34460563.37 34460563.45 34460563.55 0.0088 0.0066

Neptune 89637-12-16 00:15 G 34460651.45 34460651.51 34460651.60 0.0088 0.0073

Neptune 89638-03-14 01:41 G 34460739.53 34460739.57 34460739.63 0.0088 0.0080

Neptune 89638-06-10 03:07 G 34460827.63 34460827.63 34460827.65 0.0088 0.0087

Saturn 89638-10-25 06:43 G 34460964.62 34460964.78 34460964.95 0.0298 0.0120

Saturn 89639-01-22 08:10 G 34461053.67 34461053.84 34461054.02 0.0299 0.0100

Jupiter 89639-04-17 14:24 G 34461138.92 34461139.10 34461139.28 0.0513 0.0041

Mars 89639-05-26 09:51 G 34461177.80 34461177.91 34461178.02 0.1593 0.0532

Mars 89642-03-09 01:12 G 34462195.39 34462195.55 34462195.70 0.1943 0.0653

Venus 89642-04-14 12:15 G 34462231.91 34462232.01 34462232.11 0.3621 0.0908

Earth 89642-10-11 14:53 G 34462412.02 34462412.12 34462412.23 0.2628 0.0792

Moon 89642-10-11 15:22 G 34462412.03 34462412.14 34462412.25 0.2623 0.0916 *

Jupiter 89644-12-07 23:17 G 34463200.34 34463200.47 34463200.59 0.0513 0.0095

Mars 89646-11-10 20:24 G 34463903.27 34463903.35 34463903.42 0.1588 0.1184

Venus 89647-10-29 03:07 G 34464255.58 34464255.63 34464255.69 0.3621 0.3015

Mars 89648-10-15 21:22 G 34464608.28 34464608.39 34464608.51 0.1592 0.0190

Jupiter 89651-02-03 12:00 G 34465448.84 34465449.00 34465449.15 0.0513 0.0274

Mars 89651-07-29 17:31 G 34465625.07 34465625.23 34465625.38 0.1945 0.0602

Saturn 89652-02-29 05:03 G 34465839.71 34465839.71 34465839.72 0.0265 0.0265

Saturn 89652-05-27 14:53 G 34465928.02 34465928.12 34465928.23 0.0265 0.0158

Saturn 89652-08-24 00:58 G 34466016.41 34466016.54 34466016.67 0.0264 0.0051

Saturn 89652-11-20 10:48 G 34466104.82 34466104.95 34466105.09 0.0263 0.0057

Saturn 89653-02-16 20:53 G 34466193.27 34466193.37 34466193.48 0.0263 0.0163

Moon 89653-04-11 03:22 G 34466246.50 34466246.64 34466246.78 0.2697 0.0880

Earth 89653-04-11 03:51 G 34466246.51 34466246.66 34466246.80 0.2704 0.0740 *

Moon 89655-10-14 09:07 G 34467162.81 34467162.88 34467162.95 0.2621 0.2120

Earth 89655-10-14 09:07 G 34467162.82 34467162.88 34467162.94 0.2628 0.2184 *

Mars 89656-04-02 08:10 G 34467333.80 34467333.84 34467333.87 0.1588 0.1512

Jupiter 89656-09-26 03:36 G 34467510.55 34467510.65 34467510.77 0.0514 0.0262

Jupiter 89656-12-24 08:39 G 34467599.79 34467599.86 34467599.93 0.0511 0.0418

Mars 89658-03-08 09:07 G 34468038.76 34468038.88 34468039.00 0.1591 0.0156

Mars 89660-02-11 11:03 G 34468743.89 34468743.96 34468744.03 0.1597 0.1266

Uranus 89660-03-30 12:29 G 34468791.95 34468792.02 34468792.11 0.0135 0.0121

Uranus 89660-06-26 19:27 G 34468880.19 34468880.31 34468880.46 0.0135 0.0095

Uranus 89660-09-23 02:39 G 34468968.45 34468968.61 34468968.78 0.0135 0.0068

Mars 89660-12-18 09:07 G 34469054.85 34469054.88 34469054.92 0.1947 0.1887

Uranus 89660-12-20 09:36 G 34469056.73 34469056.90 34469057.09 0.0135 0.0042

Uranus 89661-03-18 16:34 G 34469145.01 34469145.19 34469145.38 0.0135 0.0016

Uranus 89661-06-14 23:31 G 34469233.30 34469233.48 34469233.67 0.0135 0.0011

Uranus 89661-09-11 06:29 G 34469321.59 34469321.77 34469321.95 0.0135 0.0037

Uranus 89661-12-08 13:12 G 34469409.89 34469410.05 34469410.22 0.0134 0.0063

Uranus 89662-03-06 19:55 G 34469498.20 34469498.33 34469498.48 0.0134 0.0088

Uranus 89662-06-03 02:53 G 34469586.52 34469586.62 34469586.72 0.0134 0.0114

Earth 89662-10-07 07:41 G 34469712.74 34469712.82 34469712.91 0.2630 0.1656

Moon 89662-10-07 08:24 G 34469712.76 34469712.85 34469712.94 0.2633 0.1579 *

Jupiter 89663-02-20 19:27 G 34469849.25 34469849.31 34469849.38 0.0514 0.0475

Moon 89666-04-14 07:55 G 34470997.73 34470997.83 34470997.93 0.2700 0.1962

Earth 89666-04-14 08:53 G 34470997.78 34470997.87 34470997.97 0.2705 0.2008 *

Mars 89667-07-29 20:39 G 34471469.25 34471469.36 34471469.47 0.1590 0.0493

Saturn 89668-03-13 03:07 G 34471696.50 34471696.63 34471696.77 0.0298 0.0198

Saturn 89668-06-10 04:48 G 34471785.52 34471785.70 34471785.88 0.0299 0.0023

Jupiter 89668-07-15 08:24 G 34471820.78 34471820.85 34471820.92 0.0515 0.0424

Saturn 89668-09-07 06:00 G 34471874.65 34471874.75 34471874.86 0.0300 0.0241

Jupiter 89668-10-12 13:12 G 34471909.94 34471910.05 34471910.17 0.0512 0.0255

Mars 89669-07-03 22:19 G 34472174.34 34472174.43 34472174.53 0.1595 0.0913

Mars 89672-04-17 08:53 G 34473192.86 34473192.87 34473192.89 0.1940 0.1925

Venus 89673-12-20 11:31 G 34473804.96 34473804.98 34473805.00 0.3752 0.3701

Jupiter 89674-12-09 16:34 G 34474159.03 34474159.19 34474159.35 0.0513 0.0229

Earth 89675-10-10 01:41 G 34474463.46 34474463.57 34474463.69 0.2629 0.0323

Moon 89675-10-10 02:24 G 34474463.49 34474463.60 34474463.72 0.2627 0.0181 *

Mars 89676-12-19 08:24 G 34474899.75 34474899.85 34474899.95 0.1589 0.0825

Mars 89678-11-24 09:51 G 34475604.80 34475604.91 34475605.02 0.1593 0.0561

Jupiter 89680-07-31 18:15 G 34476220.13 34476220.26 34476220.38 0.0513 0.0097

Mars 89681-09-07 01:41 G 34476622.42 34476622.57 34476622.72 0.1943 0.0716

Saturn 89681-10-14 17:03 G 34476660.13 34476660.21 34476660.30 0.0264 0.0195

Saturn 89682-01-11 03:07 G 34476748.50 34476748.63 34476748.75 0.0264 0.0088

Saturn 89682-04-09 12:58 G 34476836.91 34476837.04 34476837.18 0.0263 0.0020

Saturn 89682-07-06 23:03 G 34476925.34 34476925.46 34476925.58 0.0263 0.0126

Saturn 89682-10-03 09:07 G 34477013.82 34477013.88 34477013.94 0.0262 0.0232

Mars 89686-05-11 20:10 G 34478330.27 34478330.34 34478330.42 0.1588 0.1155

Jupiter 89686-09-27 13:12 G 34478468.87 34478469.05 34478469.23 0.0513 0.0022

Venus 89687-10-21 03:36 G 34478857.58 34478857.65 34478857.72 0.3622 0.2484

Mars 89688-04-15 21:22 G 34479035.27 34479035.39 34479035.51 0.1592 0.0219

Earth 89688-10-11 19:55 G 34479214.22 34479214.33 34479214.43 0.2628 0.1070

Moon 89688-10-11 20:24 G 34479214.24 34479214.35 34479214.45 0.2622 0.1063 *

Mars 89691-01-27 18:29 G 34480052.11 34480052.27 34480052.43 0.1945 0.0520

Pluto 89691-02-04 18:43 G 34480060.22 34480060.28 34480060.33 0.0061 0.0058

Pluto 89691-05-03 19:12 G 34480148.21 34480148.30 34480148.43 0.0061 0.0048

Pluto 89691-07-30 20:10 G 34480236.22 34480236.34 34480236.51 0.0061 0.0038

Pluto 89691-10-26 21:36 G 34480324.25 34480324.40 34480324.57 0.0062 0.0027

Pluto 89692-01-22 22:34 G 34480412.28 34480412.44 34480412.63 0.0062 0.0017

Pluto 89692-04-20 00:00 G 34480500.32 34480500.50 34480500.68 0.0062 0.0006

Jupiter 89692-05-19 23:03 G 34480530.33 34480530.46 34480530.59 0.0513 0.0065

Pluto 89692-07-17 00:58 G 34480588.37 34480588.54 34480588.72 0.0062 0.0005

Pluto 89692-10-13 01:55 G 34480676.42 34480676.58 34480676.76 0.0062 0.0016

Pluto 89693-01-09 03:07 G 34480764.47 34480764.63 34480764.79 0.0062 0.0026

Pluto 89693-04-07 03:51 G 34480852.54 34480852.66 34480852.82 0.0062 0.0037

Venus 89693-05-05 18:29 G 34480881.17 34480881.27 34480881.37 0.3622 0.0414

Pluto 89693-07-04 05:03 G 34480940.61 34480940.71 34480940.84 0.0062 0.0048

Pluto 89693-09-30 06:00 G 34481028.71 34481028.75 34481028.83 0.0062 0.0058

Mars 89695-10-02 07:55 G 34481760.80 34481760.83 34481760.87 0.1588 0.1482

Saturn 89697-07-30 21:36 G 34482428.36 34482428.40 34482428.44 0.0297 0.0290

Mars 89697-09-06 09:07 G 34482465.76 34482465.88 34482465.99 0.1591 0.0132

Saturn 89697-10-27 23:17 G 34482517.29 34482517.47 34482517.65 0.0298 0.0069

Saturn 89698-01-25 00:29 G 34482606.37 34482606.52 34482606.69 0.0299 0.0150

Jupiter 89698-07-16 10:48 G 34482778.80 34482778.95 34482779.11 0.0512 0.0255

Venus 89698-11-19 09:36 G 34482904.81 34482904.90 34482904.99 0.3621 0.1684

Moon 89699-04-12 09:36 G 34483048.75 34483048.90 34483049.05 0.2697 0.0240

Earth 89699-04-12 10:05 G 34483048.77 34483048.92 34483049.07 0.2704 0.0237 *

Mars 89699-08-12 11:03 G 34483170.89 34483170.96 34483171.02 0.1597 0.1298

Mars 89700-06-19 10:05 G 34483481.86 34483481.92 34483481.98 0.1947 0.1804

Moon 89701-10-15 13:41 G 34483965.04 34483965.07 34483965.11 0.2621 0.2483

Earth 89701-10-15 13:55 G 34483965.05 34483965.08 34483965.12 0.2627 0.2463 *

Uranus 89702-09-28 05:31 G 34484312.67 34484312.73 34484312.80 0.0143 0.0123

Uranus 89702-12-25 09:07 G 34484400.80 34484400.88 34484400.98 0.0143 0.0102

Uranus 89703-03-23 12:58 G 34484488.93 34484489.04 34484489.15 0.0143 0.0079

Uranus 89703-06-19 16:34 G 34484577.07 34484577.19 34484577.32 0.0143 0.0057

Uranus 89703-09-15 20:10 G 34484665.22 34484665.34 34484665.48 0.0143 0.0036

Uranus 89703-12-13 00:00 G 34484753.37 34484753.50 34484753.64 0.0143 0.0013

Jupiter 89704-03-09 02:53 G 34484840.51 34484840.62 34484840.74 0.0514 0.0243

Uranus 89704-03-10 03:51 G 34484841.52 34484841.66 34484841.79 0.0143 0.0011

Uranus 89704-06-06 07:27 G 34484929.68 34484929.81 34484929.94 0.0143 0.0033

Jupiter 89704-06-06 07:55 G 34484929.76 34484929.83 34484929.89 0.0511 0.0435 *

Uranus 89704-09-02 11:17 G 34485017.84 34485017.97 34485018.09 0.0144 0.0055

Uranus 89704-11-29 14:53 G 34485106.01 34485106.12 34485106.24 0.0144 0.0078

Uranus 89705-02-25 18:43 G 34485194.19 34485194.28 34485194.38 0.0144 0.0101

Uranus 89705-05-24 22:19 G 34485282.38 34485282.43 34485282.51 0.0144 0.0125

Mars 89707-01-28 20:39 G 34485896.25 34485896.36 34485896.47 0.1590 0.0460

Earth 89708-10-08 12:43 G 34486514.93 34486515.03 34486515.12 0.2629 0.1389

Moon 89708-10-08 13:27 G 34486514.96 34486515.06 34486515.15 0.2633 0.1299 *

Mars 89709-01-02 22:19 G 34486601.34 34486601.43 34486601.53 0.1595 0.0942

Jupiter 89710-05-05 08:24 G 34487088.80 34487088.85 34487088.90 0.0512 0.0489

Jupiter 89710-08-03 19:27 G 34487179.29 34487179.31 34487179.33 0.0514 0.0510

Saturn 89711-03-04 19:27 G 34487392.25 34487392.31 34487392.37 0.0265 0.0232

Saturn 89711-06-01 05:31 G 34487480.61 34487480.73 34487480.84 0.0265 0.0125

Saturn 89711-08-28 15:22 G 34487569.01 34487569.14 34487569.27 0.0264 0.0017

Saturn 89711-11-25 01:27 G 34487657.43 34487657.56 34487657.68 0.0263 0.0090

Saturn 89712-02-21 11:17 G 34487745.89 34487745.97 34487746.06 0.0263 0.0198

Moon 89712-04-15 14:10 G 34487800.00 34487800.09 34487800.17 0.2702 0.2249

Earth 89712-04-15 15:22 G 34487800.09 34487800.14 34487800.19 0.2705 0.2514 *

Jupiter 89715-12-27 07:27 G 34489150.74 34489150.81 34489150.89 0.0514 0.0410

Neptune 89716-02-16 13:12 G 34489202.03 34489202.05 34489202.10 0.0090 0.0088

Jupiter 89716-03-25 12:15 G 34489239.90 34489240.01 34489240.12 0.0512 0.0269

Neptune 89716-05-14 16:48 G 34489290.11 34489290.20 34489290.31 0.0090 0.0077

Mars 89716-06-20 08:24 G 34489326.75 34489326.85 34489326.95 0.1589 0.0794

Neptune 89716-08-10 20:24 G 34489378.23 34489378.35 34489378.48 0.0090 0.0066

Neptune 89716-11-07 00:00 G 34489466.35 34489466.50 34489466.65 0.0090 0.0055

Neptune 89717-02-03 03:07 G 34489554.48 34489554.63 34489554.81 0.0090 0.0045

Neptune 89717-05-02 06:43 G 34489642.61 34489642.78 34489642.96 0.0090 0.0034

Neptune 89717-07-29 10:19 G 34489730.75 34489730.93 34489731.11 0.0090 0.0023

Neptune 89717-10-25 13:41 G 34489818.89 34489819.07 34489819.26 0.0090 0.0012

Neptune 89718-01-21 17:17 G 34489907.03 34489907.22 34489907.40 0.0090 0.0002

Neptune 89718-04-19 20:24 G 34489995.17 34489995.35 34489995.55 0.0090 0.0010

Mars 89718-05-26 09:51 G 34490031.80 34490031.91 34490032.02 0.1593 0.0595

Neptune 89718-07-17 00:00 G 34490083.32 34490083.50 34490083.68 0.0090 0.0020

Neptune 89718-10-13 03:07 G 34490171.47 34490171.63 34490171.82 0.0090 0.0031

Neptune 89719-01-09 06:43 G 34490259.62 34490259.78 34490259.95 0.0090 0.0041

Neptune 89719-04-07 09:51 G 34490347.77 34490347.91 34490348.08 0.0090 0.0052

Neptune 89719-07-04 13:27 G 34490435.93 34490436.06 34490436.20 0.0090 0.0062

Neptune 89719-09-30 16:34 G 34490524.10 34490524.19 34490524.31 0.0090 0.0073

Neptune 89719-12-27 19:55 G 34490612.28 34490612.33 34490612.41 0.0090 0.0083

Mars 89721-03-09 02:39 G 34491049.46 34491049.61 34491049.76 0.1943 0.0799

Earth 89721-10-11 06:43 G 34491265.66 34491265.78 34491265.89 0.2629 0.0059

Moon 89721-10-11 07:27 G 34491265.69 34491265.81 34491265.92 0.2626 0.0113 *

Jupiter 89722-05-22 16:19 G 34491489.03 34491489.18 34491489.34 0.0514 0.0264

Venus 89725-01-11 02:24 G 34492453.47 34492453.60 34492453.72 0.3751 0.2332

Mars 89725-11-10 20:10 G 34492757.26 34492757.34 34492757.42 0.1588 0.1127

Saturn 89727-03-17 19:27 G 34493249.16 34493249.31 34493249.48 0.0298 0.0149

Saturn 89727-06-14 21:07 G 34493338.20 34493338.38 34493338.56 0.0299 0.0071

Saturn 89727-09-11 22:05 G 34493427.38 34493427.42 34493427.47 0.0300 0.0289

Mars 89727-10-16 21:22 G 34493462.27 34493462.39 34493462.51 0.1592 0.0248

Jupiter 89728-01-12 16:48 G 34493550.08 34493550.20 34493550.33 0.0513 0.0106

Mars 89730-07-29 18:58 G 34494479.13 34494479.29 34494479.45 0.1945 0.0453

Earth 89732-04-10 11:03 G 34495099.91 34495099.96 34495100.01 0.2703 0.2528

Moon 89732-04-10 11:17 G 34495099.92 34495099.97 34495100.03 0.2697 0.2503 *

Jupiter 89734-03-10 13:12 G 34495798.87 34495799.05 34495799.23 0.0513 0.0019

Earth 89734-10-14 00:43 G 34496016.43 34496016.53 34496016.63 0.2628 0.1348

Moon 89734-10-14 00:58 G 34496016.45 34496016.54 34496016.64 0.2622 0.1452 *

Mars 89735-04-03 07:55 G 34496187.79 34496187.83 34496187.88 0.1588 0.1452

Mars 89737-03-08 08:53 G 34496892.75 34496892.87 34496892.99 0.1591 0.0102

Mars 89739-02-11 10:48 G 34497597.89 34497597.95 34497598.02 0.1597 0.1327

Jupiter 89739-10-31 21:51 G 34497860.28 34497860.41 34497860.54 0.0513 0.0055

Mars 89739-12-19 10:48 G 34497908.88 34497908.95 34497909.02 0.1947 0.1737

Saturn 89740-10-18 07:27 G 34498212.71 34498212.81 34498212.92 0.0264 0.0162

Saturn 89741-01-14 17:31 G 34498301.10 34498301.23 34498301.36 0.0264 0.0055

Saturn 89741-04-13 03:22 G 34498389.51 34498389.64 34498389.78 0.0263 0.0053

Saturn 89741-07-10 13:27 G 34498477.96 34498478.06 34498478.17 0.0262 0.0160

Earth 89741-10-06 23:31 G 34498566.45 34498566.48 34498566.52 0.2630 0.2457

Moon 89741-10-07 00:00 G 34498566.46 34498566.50 34498566.54 0.2635 0.2458 *

Uranus 89744-04-20 19:12 G 34499493.22 34499493.30 34499493.41 0.0135 0.0115

Venus 89744-05-28 00:43 G 34499530.44 34499530.53 34499530.62 0.3622 0.1727

Uranus 89744-07-18 02:24 G 34499581.47 34499581.60 34499581.75 0.0135 0.0088

Uranus 89744-10-14 09:22 G 34499669.73 34499669.89 34499670.07 0.0135 0.0062

Uranus 89745-01-10 16:34 G 34499758.01 34499758.19 34499758.38 0.0135 0.0035

Uranus 89745-04-08 23:31 G 34499846.30 34499846.48 34499846.67 0.0135 0.0009

Moon 89745-04-13 16:05 G 34499851.01 34499851.17 34499851.32 0.2697 0.0181

Earth 89745-04-13 16:34 G 34499851.04 34499851.19 34499851.34 0.2704 0.0303 *

Uranus 89745-07-06 06:29 G 34499934.59 34499934.77 34499934.96 0.0135 0.0018

Uranus 89745-10-02 13:12 G 34500022.88 34500023.05 34500023.24 0.0135 0.0044

Jupiter 89745-12-27 09:51 G 34500108.75 34500108.91 34500109.07 0.0512 0.0234

Uranus 89745-12-29 20:10 G 34500111.18 34500111.34 34500111.50 0.0135 0.0069

Uranus 89746-03-28 02:39 G 34500199.50 34500199.61 34500199.76 0.0135 0.0096

Uranus 89746-06-24 09:36 G 34500287.83 34500287.90 34500287.99 0.0135 0.0121

Mars 89746-07-29 20:39 G 34500323.25 34500323.36 34500323.47 0.1590 0.0429

Mars 89748-07-03 22:19 G 34501028.34 34501028.43 34501028.52 0.1595 0.0973

Venus 89749-12-11 15:51 G 34501554.06 34501554.16 34501554.26 0.3622 0.0363

Jupiter 89751-08-20 02:39 G 34502170.49 34502170.61 34502170.73 0.0514 0.0215

Jupiter 89751-11-17 07:27 G 34502259.76 34502259.81 34502259.87 0.0512 0.0466

Earth 89754-10-09 17:31 G 34503317.13 34503317.23 34503317.33 0.2629 0.1118

Moon 89754-10-09 18:15 G 34503317.15 34503317.26 34503317.36 0.2631 0.1009 *

Venus 89755-06-27 06:43 G 34503577.71 34503577.78 34503577.86 0.3621 0.2442

Mars 89755-12-20 08:24 G 34503753.75 34503753.85 34503753.95 0.1589 0.0765

Saturn 89756-08-03 13:55 G 34503980.97 34503981.08 34503981.19 0.0297 0.0241

Saturn 89756-10-31 15:36 G 34504069.96 34504070.15 34504070.33 0.0298 0.0022

Saturn 89757-01-28 16:48 G 34504159.07 34504159.20 34504159.34 0.0299 0.0197

Jupiter 89757-10-15 07:12 G 34504418.74 34504418.80 34504418.88 0.0512 0.0469

Mars 89757-11-24 09:51 G 34504458.80 34504458.91 34504459.02 0.1593 0.0625

Mars 89760-09-07 03:36 G 34505476.51 34505476.65 34505476.80 0.1943 0.0879

Jupiter 89763-06-08 06:43 G 34506480.70 34506480.78 34506480.86 0.0514 0.0391

Jupiter 89763-09-05 11:31 G 34506569.87 34506569.98 34506570.09 0.0512 0.0286

Mars 89765-05-11 20:10 G 34507184.26 34507184.34 34507184.42 0.1588 0.1094

Mars 89767-04-16 21:22 G 34507889.27 34507889.39 34507889.51 0.1592 0.0278

Earth 89767-10-12 11:31 G 34508067.87 34508067.98 34508068.09 0.2629 0.0245

Moon 89767-10-12 12:15 G 34508067.89 34508068.01 34508068.12 0.2625 0.0347 *

Jupiter 89769-11-01 16:05 G 34508819.03 34508819.17 34508819.32 0.0514 0.0297

Mars 89770-01-27 19:55 G 34508906.16 34508906.33 34508906.49 0.1946 0.0378

Saturn 89770-03-07 09:51 G 34508944.83 34508944.91 34508945.00 0.0265 0.0200

Saturn 89770-06-03 19:41 G 34509033.20 34509033.32 34509033.45 0.0265 0.0093

Saturn 89770-08-31 05:46 G 34509121.61 34509121.74 34509121.88 0.0264 0.0016

Saturn 89770-11-27 15:51 G 34509210.04 34509210.16 34509210.28 0.0263 0.0123

Saturn 89771-02-24 01:55 G 34509298.52 34509298.58 34509298.64 0.0263 0.0231

Mars 89774-10-02 07:55 G 34510614.78 34510614.83 34510614.88 0.1588 0.1423

Jupiter 89775-06-24 16:05 G 34510880.04 34510880.17 34510880.29 0.0512 0.0119

Mars 89776-09-06 08:53 G 34511319.76 34511319.87 34511319.99 0.1591 0.0088

Moon 89778-04-11 17:31 G 34511902.12 34511902.23 34511902.33 0.2696 0.1937

Earth 89778-04-11 17:31 G 34511902.13 34511902.23 34511902.33 0.2703 0.1996 *

Mars 89778-08-12 11:03 G 34512024.90 34512024.96 34512025.02 0.1597 0.1361

Mars 89779-06-19 12:00 G 34512335.91 34512336.00 34512336.08 0.1947 0.1649

Moon 89780-10-14 05:46 G 34512818.65 34512818.74 34512818.83 0.2622 0.1610

Earth 89780-10-14 05:31 G 34512818.65 34512818.73 34512818.82 0.2628 0.1630 *

Venus 89781-08-18 05:03 G 34513126.56 34513126.71 34513126.87 0.3751 0.0540

Jupiter 89781-08-20 12:58 G 34513128.86 34513129.04 34513129.22 0.0513 0.0051

Pluto 89783-09-05 17:17 G 34513875.15 34513875.22 34513875.30 0.0083 0.0068

Pluto 89783-12-02 18:29 G 34513963.17 34513963.27 34513963.40 0.0083 0.0048

Pluto 89784-02-28 19:55 G 34514051.20 34514051.33 34514051.47 0.0083 0.0028

Pluto 89784-05-26 21:22 G 34514139.25 34514139.39 34514139.54 0.0082 0.0007

Pluto 89784-08-22 22:48 G 34514227.31 34514227.45 34514227.59 0.0082 0.0013

Pluto 89784-11-19 00:00 G 34514315.38 34514315.50 34514315.64 0.0082 0.0033

Pluto 89785-02-15 01:27 G 34514403.45 34514403.56 34514403.67 0.0082 0.0053

Pluto 89785-05-14 02:39 G 34514491.56 34514491.61 34514491.68 0.0082 0.0073

Mars 89786-01-27 20:39 G 34514750.24 34514750.36 34514750.47 0.1590 0.0403

Saturn 89786-03-20 12:15 G 34514801.84 34514802.01 34514802.18 0.0298 0.0097

Saturn 89786-06-17 13:41 G 34514890.90 34514891.07 34514891.24 0.0299 0.0122

Uranus 89786-07-22 09:22 G 34514925.86 34514925.89 34514925.91 0.0143 0.0140

Uranus 89786-10-18 12:43 G 34515013.96 34515014.03 34515014.11 0.0143 0.0118

Uranus 89787-01-14 16:19 G 34515102.09 34515102.18 34515102.29 0.0143 0.0096

Uranus 89787-04-12 19:55 G 34515190.23 34515190.33 34515190.45 0.0143 0.0075

Jupiter 89787-04-12 20:39 G 34515190.23 34515190.36 34515190.49 0.0513 0.0047 *

Uranus 89787-07-09 23:46 G 34515278.37 34515278.49 34515278.62 0.0143 0.0052

Uranus 89787-10-06 03:36 G 34515366.52 34515366.65 34515366.78 0.0143 0.0030

Earth 89787-10-08 04:19 G 34515368.62 34515368.68 34515368.75 0.2630 0.2194

Moon 89787-10-08 04:48 G 34515368.64 34515368.70 34515368.77 0.2635 0.2070 *

Uranus 89788-01-02 07:12 G 34515454.67 34515454.80 34515454.93 0.0143 0.0007

Mars 89788-01-02 22:19 G 34515455.34 34515455.43 34515455.52 0.1595 0.1005

Uranus 89788-03-30 10:48 G 34515542.82 34515542.95 34515543.09 0.0143 0.0016

Uranus 89788-06-26 14:39 G 34515630.98 34515631.11 34515631.24 0.0143 0.0038

Uranus 89788-09-22 18:29 G 34515719.15 34515719.27 34515719.39 0.0143 0.0061

Uranus 89788-12-19 22:05 G 34515807.32 34515807.42 34515807.53 0.0143 0.0084

Uranus 89789-03-18 01:41 G 34515895.49 34515895.57 34515895.67 0.0143 0.0107

Uranus 89789-06-14 05:31 G 34515983.69 34515983.73 34515983.80 0.0144 0.0130

Moon 89791-04-14 22:05 G 34516653.28 34516653.42 34516653.57 0.2698 0.0721

Earth 89791-04-14 23:03 G 34516653.31 34516653.46 34516653.60 0.2704 0.0813 *

Jupiter 89793-06-08 09:51 G 34517438.74 34517438.91 34517439.07 0.0512 0.0198

Venus 89795-06-19 07:12 G 34518179.74 34518179.80 34518179.85 0.3623 0.3030

Mars 89795-06-20 08:24 G 34518180.75 34518180.85 34518180.95 0.1589 0.0735

Neptune 89797-05-24 18:00 G 34518885.21 34518885.25 34518885.29 0.0088 0.0083

Mars 89797-05-25 09:36 G 34518885.80 34518885.90 34518886.01 0.1593 0.0655

Neptune 89797-08-20 19:12 G 34518973.24 34518973.30 34518973.37 0.0088 0.0076

Neptune 89797-11-16 20:24 G 34519061.28 34519061.35 34519061.45 0.0088 0.0069

Neptune 89798-02-12 21:51 G 34519149.32 34519149.41 34519149.51 0.0088 0.0062

Neptune 89798-05-11 23:17 G 34519237.37 34519237.47 34519237.58 0.0088 0.0055

Neptune 89798-08-08 00:29 G 34519325.42 34519325.52 34519325.65 0.0088 0.0048

Neptune 89798-11-04 02:10 G 34519413.47 34519413.59 34519413.71 0.0088 0.0040

Jupiter 89799-01-30 01:27 G 34519500.44 34519500.56 34519500.68 0.0514 0.0207

Neptune 89799-01-31 03:22 G 34519501.52 34519501.64 34519501.77 0.0088 0.0033

Neptune 89799-04-29 04:48 G 34519589.57 34519589.70 34519589.83 0.0088 0.0026

Jupiter 89799-04-29 06:15 G 34519589.72 34519589.76 34519589.81 0.0512 0.0474 *

Saturn 89799-07-25 12:00 G 34519676.95 34519677.00 34519677.06 0.0265 0.0237

Neptune 89799-07-26 06:15 G 34519677.63 34519677.76 34519677.89 0.0088 0.0019

Saturn 89799-10-21 22:05 G 34519765.31 34519765.42 34519765.54 0.0264 0.0129

Neptune 89799-10-22 07:27 G 34519765.68 34519765.81 34519765.95 0.0088 0.0012

Saturn 89800-01-18 08:10 G 34519853.70 34519853.84 34519853.97 0.0264 0.0022

Neptune 89800-01-18 08:53 G 34519853.74 34519853.87 34519854.01 0.0088 0.0004 *

Mars 89800-03-09 04:05 G 34519903.53 34519903.67 34519903.81 0.1944 0.0935

Neptune 89800-04-16 10:19 G 34519941.79 34519941.93 34519942.07 0.0088 0.0003

Saturn 89800-04-16 18:00 G 34519942.13 34519942.25 34519942.38 0.0263 0.0087

Neptune 89800-07-13 11:31 G 34520029.85 34520029.98 34520030.12 0.0088 0.0011

Saturn 89800-07-14 04:05 G 34520030.58 34520030.67 34520030.76 0.0262 0.0194

Neptune 89800-10-09 12:58 G 34520117.91 34520118.04 34520118.18 0.0088 0.0018

Earth 89800-10-10 22:19 G 34520119.33 34520119.43 34520119.54 0.2629 0.0849

Moon 89800-10-10 23:03 G 34520119.35 34520119.46 34520119.57 0.2629 0.0795 *

Venus 89801-01-02 22:05 G 34520203.32 34520203.42 34520203.52 0.3622 0.0961

Neptune 89801-01-05 14:24 G 34520205.97 34520206.10 34520206.23 0.0088 0.0025

Neptune 89801-04-03 15:51 G 34520294.03 34520294.16 34520294.29 0.0088 0.0032

Neptune 89801-06-30 17:03 G 34520382.09 34520382.21 34520382.34 0.0088 0.0040

Neptune 89801-09-26 18:29 G 34520470.16 34520470.27 34520470.39 0.0088 0.0047

Neptune 89801-12-23 19:55 G 34520558.22 34520558.33 34520558.44 0.0088 0.0054

Neptune 89802-03-21 21:07 G 34520646.29 34520646.38 34520646.49 0.0088 0.0062

Neptune 89802-06-17 22:34 G 34520734.36 34520734.44 34520734.53 0.0088 0.0069

Neptune 89802-09-14 00:00 G 34520822.44 34520822.50 34520822.57 0.0088 0.0076

Neptune 89802-12-11 01:12 G 34520910.53 34520910.55 34520910.60 0.0088 0.0084

Mars 89804-11-10 20:10 G 34521611.25 34521611.34 34521611.42 0.1588 0.1065

Jupiter 89805-03-28 06:15 G 34521748.67 34521748.76 34521748.84 0.0512 0.0450

Venus 89806-07-19 12:58 G 34522226.95 34522227.04 34522227.14 0.3621 0.1116

Mars 89806-10-16 21:22 G 34522316.27 34522316.39 34522316.51 0.1592 0.0311

Mars 89809-07-29 21:07 G 34523333.21 34523333.38 34523333.54 0.1946 0.0289

Jupiter 89810-11-19 06:15 G 34523810.67 34523810.76 34523810.85 0.0514 0.0366

Jupiter 89811-02-16 11:03 G 34523899.86 34523899.96 34523900.07 0.0512 0.0313

Venus 89812-02-02 04:05 G 34524250.63 34524250.67 34524250.71 0.3621 0.3213

Earth 89813-10-13 16:19 G 34524870.07 34524870.18 34524870.29 0.2628 0.0518

Moon 89813-10-13 17:03 G 34524870.10 34524870.21 34524870.32 0.2625 0.0608 *

Mars 89814-04-03 07:55 G 34525041.78 34525041.83 34525041.88 0.1588 0.1392

Saturn 89815-08-08 06:58 G 34525533.65 34525533.79 34525533.93 0.0297 0.0187

Saturn 89815-11-05 08:24 G 34525622.67 34525622.85 34525623.04 0.0298 0.0033

Saturn 89816-02-02 09:36 G 34525711.81 34525711.90 34525712.00 0.0299 0.0251

Mars 89816-03-08 08:53 G 34525746.75 34525746.87 34525746.99 0.1591 0.0051

Jupiter 89817-04-14 14:53 G 34526148.98 34526149.12 34526149.27 0.0514 0.0315

Mars 89818-02-11 11:03 G 34526451.90 34526451.96 34526452.01 0.1597 0.1392

Mars 89818-12-19 12:29 G 34526762.93 34526763.02 34526763.12 0.1947 0.1577

Jupiter 89822-12-05 15:07 G 34528210.01 34528210.13 34528210.26 0.0512 0.0136

Moon 89824-04-12 23:46 G 34528704.37 34528704.49 34528704.62 0.2696 0.1549

Earth 89824-04-13 00:00 G 34528704.37 34528704.50 34528704.63 0.2704 0.1460 *

Mars 89825-07-29 20:39 G 34529177.24 34529177.36 34529177.47 0.1590 0.0370

Moon 89826-10-16 10:34 G 34529620.86 34529620.94 34529621.02 0.2621 0.1916

Earth 89826-10-16 10:34 G 34529620.86 34529620.94 34529621.02 0.2628 0.1907 *

Mars 89827-07-04 22:19 G 34529882.34 34529882.43 34529882.52 0.1595 0.1036

Uranus 89828-05-12 01:41 G 34530194.48 34530194.57 34530194.69 0.0135 0.0110

Uranus 89828-08-08 08:53 G 34530282.73 34530282.87 34530283.03 0.0135 0.0083

Uranus 89828-11-04 15:51 G 34530371.00 34530371.16 34530371.35 0.0135 0.0057

Jupiter 89829-01-31 12:29 G 34530458.84 34530459.02 34530459.20 0.0514 0.0078

Uranus 89829-01-31 23:03 G 34530459.28 34530459.46 34530459.65 0.0135 0.0030

Saturn 89829-03-11 00:15 G 34530497.41 34530497.51 34530497.62 0.0265 0.0167

Uranus 89829-04-30 06:15 G 34530547.57 34530547.76 34530547.95 0.0135 0.0004

Saturn 89829-06-07 10:19 G 34530585.80 34530585.93 34530586.06 0.0265 0.0059

Uranus 89829-07-27 12:58 G 34530635.86 34530636.04 34530636.23 0.0135 0.0023

Saturn 89829-09-03 20:24 G 34530674.22 34530674.35 34530674.48 0.0264 0.0049

Uranus 89829-10-23 19:55 G 34530724.16 34530724.33 34530724.51 0.0135 0.0049

Saturn 89829-12-01 06:15 G 34530762.66 34530762.76 34530762.87 0.0263 0.0158

Uranus 89830-01-20 02:39 G 34530812.46 34530812.61 34530812.77 0.0135 0.0075

Uranus 89830-04-18 09:22 G 34530900.78 34530900.89 34530901.03 0.0135 0.0101

Uranus 89830-07-15 16:19 G 34530989.12 34530989.18 34530989.25 0.0135 0.0126

Earth 89833-10-09 09:22 G 34532170.81 34532170.89 34532170.96 0.2630 0.1925

Moon 89833-10-09 09:51 G 34532170.83 34532170.91 34532170.98 0.2635 0.1925 *

Jupiter 89834-09-23 19:41 G 34532520.19 34532520.32 34532520.45 0.0513 0.0032

Mars 89834-12-20 08:24 G 34532607.74 34532607.85 34532607.95 0.1589 0.0705

Mars 89836-11-24 09:51 G 34533312.80 34533312.91 34533313.01 0.1593 0.0689

Moon 89837-04-16 04:19 G 34533455.54 34533455.68 34533455.81 0.2700 0.1214

Earth 89837-04-16 05:17 G 34533455.59 34533455.72 34533455.85 0.2704 0.1331 *

Venus 89838-03-26 07:55 G 34533799.77 34533799.83 34533799.90 0.3752 0.3393

Mars 89839-09-08 05:17 G 34534330.58 34534330.72 34534330.86 0.1943 0.1025

Jupiter 89840-11-19 09:07 G 34534768.71 34534768.88 34534769.06 0.0513 0.0170

Mars 89844-05-11 20:10 G 34536038.25 34536038.34 34536038.42 0.1588 0.1039

Saturn 89844-12-25 03:51 G 34536265.58 34536265.66 34536265.76 0.0297 0.0260

Saturn 89845-03-24 05:46 G 34536354.55 34536354.74 34536354.92 0.0298 0.0040

Saturn 89845-06-21 06:58 G 34536443.65 34536443.79 34536443.94 0.0299 0.0179

Mars 89846-04-16 21:22 G 34536743.27 34536743.39 34536743.50 0.1592 0.0340

Jupiter 89846-07-13 00:15 G 34536830.39 34536830.51 34536830.63 0.0514 0.0199

Jupiter 89846-10-10 05:03 G 34536919.67 34536919.71 34536919.75 0.0511 0.0480

Earth 89846-10-12 03:07 G 34536921.52 34536921.63 34536921.75 0.2629 0.0585

Moon 89846-10-12 04:05 G 34536921.55 34536921.67 34536921.78 0.2628 0.0427 *

Mars 89849-01-27 21:22 G 34537760.23 34537760.39 34537760.55 0.1945 0.0230

Venus 89852-01-25 04:19 G 34538852.61 34538852.68 34538852.76 0.3622 0.2270

Jupiter 89852-09-07 05:46 G 34539078.64 34539078.74 34539078.85 0.0512 0.0419

Mars 89853-10-02 07:55 G 34539468.77 34539468.83 34539468.89 0.1588 0.1363

Mars 89855-09-07 08:53 G 34540173.75 34540173.87 34540173.99 0.1590 0.0006

Venus 89857-08-09 19:27 G 34540876.20 34540876.31 34540876.41 0.3622 0.0255

Mars 89857-08-12 10:48 G 34540878.90 34540878.95 34540879.01 0.1596 0.1421

Jupiter 89858-05-01 05:03 G 34541140.62 34541140.71 34541140.80 0.0514 0.0361

Mars 89858-06-19 13:27 G 34541189.96 34541190.06 34541190.17 0.1947 0.1499

Saturn 89858-07-29 02:53 G 34541229.53 34541229.62 34541229.70 0.0265 0.0201

Jupiter 89858-07-29 09:51 G 34541229.81 34541229.91 34541230.01 0.0512 0.0318

Saturn 89858-10-25 12:43 G 34541317.91 34541318.03 34541318.16 0.0264 0.0093

Saturn 89859-01-21 22:48 G 34541406.31 34541406.45 34541406.58 0.0264 0.0015

Saturn 89859-04-20 08:53 G 34541494.75 34541494.87 34541494.98 0.0263 0.0123

Saturn 89859-07-17 18:43 G 34541583.23 34541583.28 34541583.35 0.0263 0.0231

Earth 89859-10-14 21:22 G 34541672.28 34541672.39 34541672.49 0.2628 0.0800

Moon 89859-10-14 21:51 G 34541672.30 34541672.41 34541672.52 0.2624 0.0846 *

Venus 89863-02-23 10:19 G 34542899.84 34542899.93 34542900.02 0.3621 0.1882

Jupiter 89864-09-24 13:27 G 34543478.92 34543479.06 34543479.20 0.0514 0.0328

Mars 89865-01-27 20:39 G 34543604.24 34543604.36 34543604.47 0.1590 0.0341

Mars 89867-01-02 22:19 G 34544309.34 34544309.43 34544309.52 0.1595 0.1067

Moon 89870-04-14 06:15 G 34545506.61 34545506.76 34545506.90 0.2697 0.0867

Earth 89870-04-14 06:29 G 34545506.63 34545506.77 34545506.91 0.2704 0.0933 *

Jupiter 89870-05-17 14:24 G 34545539.98 34545540.10 34545540.23 0.0513 0.0158

Uranus 89870-08-12 16:48 G 34545627.15 34545627.20 34545627.25 0.0143 0.0132

Uranus 89870-11-08 20:10 G 34545715.27 34545715.34 34545715.43 0.0143 0.0111

Uranus 89871-02-04 23:46 G 34545803.40 34545803.49 34545803.61 0.0143 0.0090

Uranus 89871-05-04 03:36 G 34545891.54 34545891.65 34545891.77 0.0143 0.0067

Uranus 89871-07-31 07:27 G 34545979.68 34545979.81 34545979.93 0.0143 0.0045

Uranus 89871-10-27 11:03 G 34546067.83 34546067.96 34546068.09 0.0143 0.0022

Uranus 89872-01-23 14:39 G 34546155.98 34546156.11 34546156.25 0.0143 0.0004

Uranus 89872-04-20 18:29 G 34546244.14 34546244.27 34546244.40 0.0143 0.0023

Uranus 89872-07-17 22:05 G 34546332.30 34546332.42 34546332.55 0.0143 0.0045

Uranus 89872-10-14 01:55 G 34546420.46 34546420.58 34546420.70 0.0143 0.0068

Moon 89872-10-16 15:22 G 34546423.08 34546423.14 34546423.20 0.2621 0.2170

Earth 89872-10-16 15:22 G 34546423.08 34546423.14 34546423.20 0.2628 0.2187 *

Uranus 89873-01-10 05:31 G 34546508.63 34546508.73 34546508.84 0.0143 0.0091

Uranus 89873-04-08 09:22 G 34546596.81 34546596.89 34546596.98 0.0143 0.0113

Uranus 89873-07-05 12:58 G 34546685.01 34546685.04 34546685.09 0.0143 0.0137

Mars 89874-06-20 08:24 G 34547034.74 34547034.85 34547034.95 0.1589 0.0676

Saturn 89874-08-11 01:12 G 34547086.38 34547086.55 34547086.72 0.0297 0.0123

Saturn 89874-11-08 02:39 G 34547175.44 34547175.61 34547175.78 0.0298 0.0096

Mars 89876-05-25 09:51 G 34547739.80 34547739.91 34547740.01 0.1593 0.0719

Jupiter 89876-07-13 11:03 G 34547788.78 34547788.96 34547789.14 0.0513 0.0091

Mars 89879-03-09 06:00 G 34548757.61 34548757.75 34548757.88 0.1943 0.1096

Earth 89879-10-10 14:10 G 34548973.00 34548973.09 34548973.18 0.2630 0.1659

Moon 89879-10-10 14:39 G 34548973.02 34548973.11 34548973.20 0.2633 0.1524 *

Neptune 89880-11-13 12:00 G 34549372.94 34549373.00 34549373.09 0.0090 0.0082

Neptune 89881-02-09 15:36 G 34549461.05 34549461.15 34549461.27 0.0090 0.0071

Neptune 89881-05-08 19:12 G 34549549.16 34549549.30 34549549.44 0.0090 0.0060

Neptune 89881-08-04 22:19 G 34549637.29 34549637.43 34549637.61 0.0090 0.0050

Neptune 89881-11-01 01:55 G 34549725.42 34549725.58 34549725.77 0.0090 0.0039

Neptune 89882-01-28 05:31 G 34549813.56 34549813.73 34549813.92 0.0090 0.0028

Jupiter 89882-03-05 18:43 G 34549850.15 34549850.28 34549850.41 0.0513 0.0018

Neptune 89882-04-26 09:07 G 34549901.70 34549901.88 34549902.07 0.0090 0.0017

Neptune 89882-07-23 12:29 G 34549989.84 34549990.02 34549990.21 0.0090 0.0007

Neptune 89882-10-19 16:05 G 34550077.98 34550078.17 34550078.36 0.0090 0.0005

Neptune 89883-01-15 19:27 G 34550166.12 34550166.31 34550166.50 0.0090 0.0015

Neptune 89883-04-13 22:34 G 34550254.27 34550254.44 34550254.63 0.0090 0.0026

Moon 89883-04-17 10:19 G 34550257.81 34550257.93 34550258.05 0.2701 0.1611

Earth 89883-04-17 11:46 G 34550257.88 34550257.99 34550258.10 0.2705 0.1846 *

Neptune 89883-07-11 02:10 G 34550342.42 34550342.59 34550342.76 0.0090 0.0036

Neptune 89883-10-07 05:17 G 34550430.57 34550430.72 34550430.89 0.0090 0.0047

Mars 89883-11-10 20:10 G 34550465.25 34550465.34 34550465.43 0.1588 0.1005

Neptune 89884-01-03 08:39 G 34550518.73 34550518.86 34550519.02 0.0090 0.0058

Neptune 89884-03-31 12:00 G 34550606.89 34550607.00 34550607.14 0.0090 0.0068

Neptune 89884-06-27 15:36 G 34550695.07 34550695.15 34550695.24 0.0090 0.0078

Neptune 89884-09-23 18:43 G 34550783.27 34550783.28 34550783.32 0.0090 0.0089

Mars 89885-10-15 21:22 G 34551170.27 34551170.39 34551170.50 0.1592 0.0372

Saturn 89887-12-16 05:03 G 34551961.66 34551961.71 34551961.77 0.0266 0.0239

Saturn 89888-03-13 15:07 G 34552050.01 34552050.13 34552050.24 0.0265 0.0131

Jupiter 89888-05-01 08:10 G 34552098.66 34552098.84 34552099.01 0.0513 0.0151

Saturn 89888-06-10 01:12 G 34552138.41 34552138.55 34552138.68 0.0265 0.0023

Mars 89888-07-28 22:19 G 34552187.27 34552187.43 34552187.60 0.1946 0.0148

Saturn 89888-09-06 11:03 G 34552226.84 34552226.96 34552227.09 0.0264 0.0087

Saturn 89888-12-03 21:07 G 34552315.30 34552315.38 34552315.47 0.0263 0.0195

Venus 89889-04-15 22:48 G 34552448.33 34552448.45 34552448.56 0.3751 0.2669

Earth 89892-10-12 08:10 G 34553723.72 34553723.84 34553723.95 0.2629 0.0318

Moon 89892-10-12 08:53 G 34553723.75 34553723.87 34553723.98 0.2627 0.0271 *

Mars 89893-04-02 07:55 G 34553895.77 34553895.83 34553895.89 0.1588 0.1336

Jupiter 89893-12-22 23:17 G 34554160.35 34554160.47 34554160.59 0.0513 0.0186

Jupiter 89894-03-22 04:05 G 34554249.64 34554249.67 34554249.70 0.0511 0.0491

Mars 89895-03-08 08:53 G 34554600.75 34554600.87 34554600.99 0.1590 0.0034

Mars 89897-02-10 11:03 G 34555305.91 34555305.96 34555306.00 0.1597 0.1455

Mars 89897-12-18 14:24 G 34555616.99 34555617.10 34555617.21 0.1947 0.1423

Jupiter 89900-02-18 04:34 G 34556408.58 34556408.69 34556408.81 0.0512 0.0400

Venus 89903-02-16 10:48 G 34557501.93 34557501.95 34557501.96 0.3623 0.3566

Saturn 89903-12-29 23:03 G 34557818.32 34557818.46 34557818.60 0.0297 0.0189

Saturn 89904-03-28 00:29 G 34557907.34 34557907.52 34557907.71 0.0298 0.0030

Saturn 89904-06-25 01:41 G 34557996.47 34557996.57 34557996.67 0.0299 0.0248

Mars 89904-07-29 20:24 G 34558031.24 34558031.35 34558031.47 0.1589 0.0316

Jupiter 89905-10-12 03:36 G 34558470.56 34558470.65 34558470.74 0.0514 0.0355

Earth 89905-10-16 02:10 G 34558474.48 34558474.59 34558474.69 0.2628 0.1072

Moon 89905-10-16 02:24 G 34558474.50 34558474.60 34558474.71 0.2623 0.1167 *

Jupiter 89906-01-09 08:24 G 34558559.75 34558559.85 34558559.95 0.0512 0.0322

Mars 89906-07-04 22:19 G 34558736.34 34558736.43 34558736.51 0.1595 0.1099

Venus 89908-09-01 01:41 G 34559525.48 34559525.57 34559525.66 0.3622 0.1505

Uranus 89912-03-06 01:27 G 34560807.53 34560807.56 34560807.62 0.0135 0.0130

Jupiter 89912-03-07 12:43 G 34560808.90 34560809.03 34560809.16 0.0514 0.0352

Uranus 89912-06-02 08:39 G 34560895.75 34560895.86 34560895.99 0.0135 0.0103

Uranus 89912-08-29 16:05 G 34560984.01 34560984.17 34560984.32 0.0135 0.0076

Uranus 89912-11-25 22:48 G 34561072.29 34561072.45 34561072.64 0.0135 0.0050

Uranus 89913-02-22 06:00 G 34561160.57 34561160.75 34561160.94 0.0135 0.0023

Uranus 89913-05-21 12:58 G 34561248.86 34561249.04 34561249.23 0.0135 0.0005

Uranus 89913-08-17 19:55 G 34561337.15 34561337.33 34561337.52 0.0135 0.0030

Uranus 89913-11-14 02:39 G 34561425.45 34561425.61 34561425.79 0.0135 0.0056

Mars 89913-12-20 08:24 G 34561461.74 34561461.85 34561461.95 0.1589 0.0647

Uranus 89914-02-10 09:36 G 34561513.76 34561513.90 34561514.06 0.0135 0.0082

Venus 89914-03-17 16:34 G 34561549.09 34561549.19 34561549.29 0.3621 0.0570

Uranus 89914-05-09 16:34 G 34561602.08 34561602.19 34561602.30 0.0135 0.0107

Uranus 89914-08-05 23:03 G 34561690.44 34561690.46 34561690.50 0.0135 0.0133

Mars 89915-11-25 09:36 G 34562166.80 34562166.90 34562167.01 0.1593 0.0746

Moon 89916-04-15 12:29 G 34562308.87 34562309.02 34562309.17 0.2698 0.0558

Earth 89916-04-15 12:58 G 34562308.89 34562309.04 34562309.18 0.2704 0.0408 *

Saturn 89917-08-01 17:46 G 34562782.14 34562782.24 34562782.34 0.0265 0.0163

Jupiter 89917-10-28 12:58 G 34562869.92 34562870.04 34562870.17 0.0513 0.0159

Saturn 89917-10-29 03:51 G 34562870.53 34562870.66 34562870.79 0.0265 0.0055

Saturn 89918-01-25 13:41 G 34562958.94 34562959.07 34562959.21 0.0264 0.0055

Saturn 89918-04-23 23:46 G 34563047.39 34563047.49 34563047.60 0.0263 0.0163

Mars 89918-09-08 06:29 G 34563184.64 34563184.77 34563184.90 0.1944 0.1161

Moon 89918-10-18 20:10 G 34563225.30 34563225.34 34563225.38 0.2621 0.2435

Earth 89918-10-18 20:24 G 34563225.31 34563225.35 34563225.38 0.2628 0.2471 *

Venus 89919-10-01 07:41 G 34563572.75 34563572.82 34563572.89 0.3621 0.2656

Mars 89923-05-12 19:55 G 34564892.24 34564892.33 34564892.43 0.1588 0.0978

Jupiter 89923-12-25 09:07 G 34565118.70 34565118.88 34565119.06 0.0513 0.0098

Mars 89925-04-16 21:22 G 34565597.27 34565597.39 34565597.50 0.1592 0.0404

Earth 89925-10-11 18:58 G 34565775.20 34565775.29 34565775.39 0.2630 0.1389

Moon 89925-10-11 19:41 G 34565775.22 34565775.32 34565775.42 0.2632 0.1348 *

Mars 89928-01-28 23:17 G 34566614.31 34566614.47 34566614.64 0.1946 0.0076

Moon 89929-04-18 16:48 G 34567060.12 34567060.20 34567060.28 0.2701 0.2262

Earth 89929-04-18 18:15 G 34567060.19 34567060.26 34567060.33 0.2705 0.2367 *

Jupiter 89929-08-16 17:46 G 34567180.11 34567180.24 34567180.37 0.0513 0.0006

Mars 89932-10-02 07:55 G 34568322.76 34568322.83 34568322.89 0.1588 0.1304

Saturn 89933-05-17 19:12 G 34568550.23 34568550.30 34568550.38 0.0296 0.0266

Saturn 89933-08-14 20:53 G 34568639.19 34568639.37 34568639.55 0.0297 0.0047

Saturn 89933-11-11 22:05 G 34568728.27 34568728.42 34568728.57 0.0298 0.0171

Mars 89934-09-07 08:53 G 34569027.75 34569027.87 34569027.99 0.1590 0.0061

Jupiter 89935-10-13 06:15 G 34569428.59 34569428.76 34569428.94 0.0513 0.0144

Mars 89936-08-12 11:03 G 34569732.91 34569732.96 34569733.00 0.1597 0.1487

Mars 89937-06-19 15:07 G 34570044.01 34570044.13 34570044.25 0.1947 0.1341

Pluto 89937-12-21 05:03 G 34570228.64 34570228.71 34570228.82 0.0061 0.0053

Pluto 89938-03-19 06:29 G 34570316.65 34570316.77 34570316.90 0.0061 0.0043

Pluto 89938-06-15 07:12 G 34570404.67 34570404.80 34570404.97 0.0061 0.0033

Pluto 89938-09-11 08:39 G 34570492.70 34570492.86 34570493.03 0.0062 0.0022

Earth 89938-10-14 12:58 G 34570525.92 34570526.04 34570526.15 0.2629 0.0058

Moon 89938-10-14 13:41 G 34570525.95 34570526.07 34570526.18 0.2627 0.0142 *

Pluto 89938-12-08 09:36 G 34570580.74 34570580.90 34570581.09 0.0062 0.0012

Pluto 89939-03-06 11:03 G 34570668.78 34570668.96 34570669.14 0.0062 0.0001

Pluto 89939-06-02 12:00 G 34570756.83 34570757.00 34570757.18 0.0062 0.0010

Pluto 89939-08-29 12:43 G 34570844.88 34570845.03 34570845.22 0.0062 0.0021

Pluto 89939-11-25 13:55 G 34570932.94 34570933.08 34570933.25 0.0062 0.0031

Pluto 89940-02-21 14:53 G 34571021.01 34571021.12 34571021.27 0.0062 0.0042

Pluto 89940-05-19 16:19 G 34571109.09 34571109.18 34571109.28 0.0062 0.0052

Jupiter 89941-06-04 22:05 G 34571490.30 34571490.42 34571490.54 0.0513 0.0175

Jupiter 89941-09-02 02:53 G 34571579.60 34571579.62 34571579.64 0.0511 0.0501

Mars 89944-01-28 20:39 G 34572458.24 34572458.36 34572458.47 0.1589 0.0285

Venus 89945-11-22 01:41 G 34573121.41 34573121.57 34573121.72 0.3751 0.0257

Mars 89946-01-02 22:19 G 34573163.34 34573163.43 34573163.51 0.1595 0.1129

Saturn 89946-12-19 20:10 G 34573514.26 34573514.34 34573514.43 0.0266 0.0199

Saturn 89947-03-18 06:15 G 34573602.64 34573602.76 34573602.89 0.0266 0.0090

Saturn 89947-06-14 16:19 G 34573691.05 34573691.18 34573691.31 0.0265 0.0019

Jupiter 89947-08-01 02:53 G 34573738.51 34573738.62 34573738.74 0.0513 0.0391

Saturn 89947-09-11 02:24 G 34573779.48 34573779.60 34573779.72 0.0264 0.0127

Saturn 89947-12-08 12:29 G 34573867.97 34573868.02 34573868.08 0.0264 0.0236

Earth 89951-10-17 06:58 G 34575276.69 34575276.79 34575276.89 0.2628 0.1349

Moon 89951-10-17 07:12 G 34575276.70 34575276.80 34575276.90 0.2622 0.1322 *

Jupiter 89953-03-24 02:39 G 34575800.51 34575800.61 34575800.70 0.0513 0.0344

Mars 89953-06-20 08:10 G 34575888.74 34575888.84 34575888.95 0.1589 0.0617

Jupiter 89953-06-21 07:12 G 34575889.71 34575889.80 34575889.90 0.0511 0.0332

Uranus 89954-09-03 00:29 G 34576328.46 34576328.52 34576328.59 0.0143 0.0125

Uranus 89954-11-30 04:05 G 34576416.58 34576416.67 34576416.77 0.0143 0.0103

Uranus 89955-02-26 07:41 G 34576504.72 34576504.82 34576504.93 0.0143 0.0081

Uranus 89955-05-25 11:17 G 34576592.86 34576592.97 34576593.10 0.0143 0.0059

Mars 89955-05-26 09:36 G 34576593.80 34576593.90 34576594.01 0.1593 0.0782

Uranus 89955-08-21 15:07 G 34576681.00 34576681.13 34576681.26 0.0143 0.0037

Uranus 89955-11-17 18:43 G 34576769.15 34576769.28 34576769.42 0.0143 0.0014

Uranus 89956-02-13 22:34 G 34576857.30 34576857.44 34576857.57 0.0143 0.0009

Uranus 89956-05-12 02:10 G 34576945.46 34576945.59 34576945.72 0.0143 0.0031

Uranus 89956-08-08 05:46 G 34577033.62 34577033.74 34577033.87 0.0143 0.0053

Uranus 89956-11-04 09:36 G 34577121.79 34577121.90 34577122.02 0.0143 0.0076

Uranus 89957-01-31 13:27 G 34577209.96 34577210.06 34577210.16 0.0143 0.0099

Uranus 89957-04-29 17:03 G 34577298.15 34577298.21 34577298.29 0.0143 0.0122

Mars 89958-03-09 07:27 G 34577611.69 34577611.81 34577611.94 0.1943 0.1241

Earth 89958-10-10 06:00 G 34577826.71 34577826.75 34577826.79 0.2630 0.2455

Moon 89958-10-10 06:15 G 34577826.72 34577826.76 34577826.80 0.2636 0.2438 *

Jupiter 89959-08-18 11:03 G 34578138.84 34578138.96 34578139.09 0.0514 0.0364

Venus 89959-09-23 07:55 G 34578174.77 34578174.83 34578174.90 0.3622 0.2806

Neptune 89961-11-24 16:05 G 34578968.17 34578968.17 34578968.21 0.0088 0.0087

Neptune 89962-02-20 17:46 G 34579056.19 34579056.24 34579056.30 0.0088 0.0079

Moon 89962-04-16 18:29 G 34579111.11 34579111.27 34579111.42 0.2698 0.0119

Earth 89962-04-16 19:12 G 34579111.15 34579111.30 34579111.45 0.2704 0.0126 *

Neptune 89962-05-19 19:12 G 34579144.22 34579144.30 34579144.37 0.0088 0.0072

Neptune 89962-08-15 20:24 G 34579232.26 34579232.35 34579232.44 0.0088 0.0065

Mars 89962-11-10 19:55 G 34579319.24 34579319.33 34579319.42 0.1588 0.0949

Neptune 89962-11-11 21:51 G 34579320.31 34579320.41 34579320.51 0.0088 0.0058

Saturn 89963-01-01 19:27 G 34579371.14 34579371.31 34579371.49 0.0297 0.0107

Neptune 89963-02-07 23:03 G 34579408.36 34579408.46 34579408.57 0.0088 0.0051

Saturn 89963-03-31 20:53 G 34579460.20 34579460.37 34579460.54 0.0298 0.0112

Neptune 89963-05-07 00:15 G 34579496.40 34579496.51 34579496.64 0.0088 0.0044

Neptune 89963-08-03 01:41 G 34579584.45 34579584.57 34579584.70 0.0088 0.0037

Neptune 89963-10-30 03:07 G 34579672.51 34579672.63 34579672.76 0.0088 0.0029

Neptune 89964-01-26 04:19 G 34579760.56 34579760.68 34579760.82 0.0088 0.0023

Neptune 89964-04-23 05:46 G 34579848.61 34579848.74 34579848.88 0.0088 0.0015

Neptune 89964-07-20 07:12 G 34579936.67 34579936.80 34579936.94 0.0088 0.0008

Mars 89964-10-15 21:22 G 34580024.27 34580024.39 34580024.50 0.1592 0.0434

Neptune 89964-10-16 08:39 G 34580024.72 34580024.86 34580025.00 0.0088 0.0001

Neptune 89965-01-12 10:05 G 34580112.78 34580112.92 34580113.05 0.0088 0.0007

Venus 89965-04-07 23:03 G 34580198.36 34580198.46 34580198.56 0.3622 0.0750

Jupiter 89965-04-09 11:31 G 34580199.86 34580199.98 34580200.10 0.0512 0.0160

Neptune 89965-04-10 11:17 G 34580200.84 34580200.97 34580201.11 0.0088 0.0014

Neptune 89965-07-07 12:43 G 34580288.90 34580289.03 34580289.16 0.0088 0.0021

Neptune 89965-10-03 13:55 G 34580376.96 34580377.08 34580377.22 0.0088 0.0029

Neptune 89965-12-30 15:22 G 34580465.02 34580465.14 34580465.27 0.0088 0.0036

Neptune 89966-03-28 16:48 G 34580553.08 34580553.20 34580553.32 0.0088 0.0043

Neptune 89966-06-24 18:00 G 34580641.15 34580641.25 34580641.37 0.0088 0.0051

Neptune 89966-09-20 19:27 G 34580729.22 34580729.31 34580729.42 0.0088 0.0058

Neptune 89966-12-17 20:53 G 34580817.28 34580817.37 34580817.47 0.0088 0.0065

Neptune 89967-03-15 22:19 G 34580905.36 34580905.43 34580905.51 0.0088 0.0072

Neptune 89967-06-11 23:31 G 34580993.44 34580993.48 34580993.55 0.0088 0.0080

Mars 89967-07-30 00:00 G 34581041.33 34581041.50 34581041.66 0.1946 0.0049

Neptune 89967-09-08 00:58 G 34581081.54 34581081.54 34581081.57 0.0088 0.0087

Venus 89970-10-22 13:55 G 34582221.99 34582222.08 34582222.17 0.3621 0.1331

Jupiter 89971-06-06 07:55 G 34582448.65 34582448.83 34582449.00 0.0513 0.0114

Earth 89971-10-12 23:46 G 34582577.39 34582577.49 34582577.59 0.2630 0.1121

Moon 89971-10-13 00:29 G 34582577.42 34582577.52 34582577.63 0.2631 0.0985 *

Mars 89972-04-02 07:41 G 34582749.76 34582749.82 34582749.89 0.1588 0.1276

Mars 89974-03-08 08:53 G 34583454.75 34583454.87 34583454.98 0.1590 0.0099

Moon 89975-04-19 23:03 G 34583862.43 34583862.46 34583862.50 0.2701 0.2602

Mars 89976-02-11 10:48 G 34584159.92 34584159.95 34584159.99 0.1596 0.1514

Venus 89976-05-07 05:03 G 34584245.68 34584245.71 34584245.74 0.3621 0.3430

Saturn 89976-05-07 23:17 G 34584246.41 34584246.47 34584246.54 0.0266 0.0228

Saturn 89976-08-04 09:22 G 34584334.77 34584334.89 34584335.01 0.0265 0.0119

Saturn 89976-10-31 19:27 G 34584423.17 34584423.31 34584423.44 0.0265 0.0014

Mars 89976-12-18 16:05 G 34584471.04 34584471.17 34584471.29 0.1948 0.1272

Jupiter 89977-01-26 16:05 G 34584510.04 34584510.17 34584510.30 0.0513 0.0008

Saturn 89977-01-28 05:17 G 34584511.60 34584511.72 34584511.85 0.0264 0.0099

Saturn 89977-04-26 15:22 G 34584600.07 34584600.14 34584600.23 0.0263 0.0207

Jupiter 89983-03-25 04:05 G 34586758.49 34586758.67 34586758.84 0.0513 0.0144

Mars 89983-07-29 20:24 G 34586885.24 34586885.35 34586885.47 0.1589 0.0254

Earth 89984-10-14 17:46 G 34587328.13 34587328.24 34587328.35 0.2629 0.0243

Moon 89984-10-14 18:29 G 34587328.15 34587328.27 34587328.38 0.2626 0.0274 *

Mars 89985-07-03 22:19 G 34587590.35 34587590.43 34587590.51 0.1595 0.1161

Jupiter 89988-11-14 20:53 G 34588820.25 34588820.37 34588820.49 0.0514 0.0170

Jupiter 89989-02-12 01:41 G 34588909.56 34588909.57 34588909.58 0.0511 0.0509

Saturn 89992-05-20 16:48 G 34590103.06 34590103.20 34590103.35 0.0297 0.0175

Saturn 89992-08-17 18:29 G 34590192.08 34590192.27 34590192.45 0.0298 0.0045

Saturn 89992-11-14 19:27 G 34590281.23 34590281.31 34590281.40 0.0298 0.0262

Mars 89992-12-19 08:10 G 34590315.73 34590315.84 34590315.95 0.1589 0.0586

Mars 89994-11-24 09:36 G 34591020.80 34591020.90 34591021.01 0.1593 0.0812

Jupiter 89995-01-11 00:43 G 34591068.42 34591068.53 34591068.65 0.0512 0.0390

Earth 89995-04-14 20:10 G 34591162.25 34591162.34 34591162.42 0.2703 0.2191

Moon 89995-04-14 20:24 G 34591162.25 34591162.35 34591162.44 0.2696 0.2090 *

Uranus 89996-03-26 08:10 G 34591508.78 34591508.84 34591508.93 0.0135 0.0124

Uranus 89996-06-22 15:22 G 34591597.02 34591597.14 34591597.28 0.0135 0.0097

Uranus 89996-09-18 22:48 G 34591685.29 34591685.45 34591685.61 0.0135 0.0070

Uranus 89996-12-16 05:46 G 34591773.56 34591773.74 34591773.92 0.0135 0.0044

Uranus 89997-03-14 12:43 G 34591861.85 34591862.03 34591862.22 0.0135 0.0017

Uranus 89997-06-10 19:41 G 34591950.14 34591950.32 34591950.51 0.0135 0.0010

Uranus 89997-09-07 02:39 G 34592038.43 34592038.61 34592038.80 0.0135 0.0035

Mars 89997-09-07 08:24 G 34592038.73 34592038.85 34592038.97 0.1943 0.1319 *

Earth 89997-10-17 12:00 G 34592078.91 34592079.00 34592079.08 0.2628 0.1628

Moon 89997-10-17 12:00 G 34592078.92 34592079.00 34592079.09 0.2621 0.1719 *

Uranus 89997-12-04 09:22 G 34592126.74 34592126.89 34592127.07 0.0135 0.0062

Uranus 89998-03-02 16:34 G 34592215.05 34592215.19 34592215.33 0.0135 0.0087

Uranus 89998-05-29 23:03 G 34592303.37 34592303.46 34592303.57 0.0135 0.0113

Jupiter 90000-09-03 01:12 G 34593130.45 34593130.55 34593130.65 0.0514 0.0338

Jupiter 90000-12-01 05:46 G 34593219.65 34593219.74 34593219.84 0.0511 0.0338

91ST MILLENNIUM CE

This is a list of transits of Mercury in the 91st millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	**90002-05-11 19:55**	**G**	**34593746.24**	**34593746.33**	**34593746.43**	**0.1588**	**0.0916**	
Venus	**90002-06-29 04:19**	**G**	**34593794.59**	**34593794.68**	**34593794.77**	**0.3752**	**0.3079**	
Mars	**90004-04-15 21:22**	**G**	**34594451.27**	**34594451.39**	**34594451.50**	**0.1591**	**0.0467**	
Earth	**90004-10-10 10:48**	**G**	**34594628.89**	**34594628.95**	**34594629.01**	**0.2630**	**0.2190**	
Moon	**90004-10-10 11:17**	**G**	**34594628.91**	**34594628.97**	**34594629.03**	**0.2635**	**0.2149**	*
Saturn	**90005-09-25 01:55**	**G**	**34594978.56**	**34594978.58**	**34594978.60**	**0.0267**	**0.0263**	
Saturn	**90005-12-22 11:46**	**G**	**34595066.89**	**34595066.99**	**34595067.10**	**0.0266**	**0.0154**	
Saturn	**90006-03-20 21:51**	**G**	**34595155.28**	**34595155.41**	**34595155.55**	**0.0265**	**0.0046**	
Saturn	**90006-06-17 07:55**	**G**	**34595243.71**	**34595243.83**	**34595243.96**	**0.0265**	**0.0065**	
Saturn	**90006-09-13 18:00**	**G**	**34595332.16**	**34595332.25**	**34595332.36**	**0.0264**	**0.0174**	
Mars	**90007-01-28 00:43**	**G**	**34595468.37**	**34595468.53**	**34595468.70**	**0.1946**	**0.0083**	
Jupiter	**90007-01-28 08:53**	**G**	**34595468.74**	**34595468.87**	**34595469.00**	**0.0514**	**0.0364**	
Moon	**90008-04-17 00:43**	**G**	**34595913.38**	**34595913.53**	**34595913.68**	**0.2699**	**0.0422**	
Earth	**90008-04-17 01:41**	**G**	**34595913.43**	**34595913.57**	**34595913.72**	**0.2704**	**0.0652**	*
Mars	**90011-10-02 07:41**	**G**	**34597176.75**	**34597176.82**	**34597176.89**	**0.1587**	**0.1247**	
Jupiter	**90012-06-22 05:31**	**G**	**34597440.72**	**34597440.73**	**34597440.75**	**0.0514**	**0.0507**	
Jupiter	**90012-09-19 10:19**	**G**	**34597529.81**	**34597529.93**	**34597530.05**	**0.0512**	**0.0167**	
Mars	**90013-09-06 08:53**	**G**	**34597881.75**	**34597881.87**	**34597881.99**	**0.1590**	**0.0124**	
Mars	**90015-08-12 10:48**	**G**	**34598586.93**	**34598586.95**	**34598586.98**	**0.1596**	**0.1549**	
Venus	**90016-04-29 05:17**	**G**	**34598847.64**	**34598847.72**	**34598847.80**	**0.3622**	**0.2041**	

Mars 90016-06-18 17:03 G 34598898.08 34598898.21 34598898.34 0.1947 0.1188

Earth 90017-10-13 04:34 G 34599379.59 34599379.69 34599379.80 0.2629 0.0851

Moon 90017-10-13 05:31 G 34599379.62 34599379.73 34599379.83 0.2631 0.0770 *

Jupiter 90018-11-16 05:31 G 34599778.56 34599778.73 34599778.91 0.0514 0.0116

Mars 90021-02-21 19:41 G 34600607.30 34600607.32 34600607.33 0.1587 0.1573

Saturn 90021-10-07 16:05 G 34600835.06 34600835.17 34600835.30 0.0296 0.0228

Venus 90021-11-12 20:10 G 34600871.24 34600871.34 34600871.44 0.3621 0.0086

Saturn 90022-01-04 17:46 G 34600924.06 34600924.24 34600924.42 0.0297 0.0009

Saturn 90022-04-03 18:58 G 34601013.16 34601013.29 34601013.42 0.0298 0.0209

Mars 90023-01-27 20:24 G 34601312.23 34601312.35 34601312.47 0.1589 0.0222

Jupiter 90024-07-08 14:24 G 34601839.97 34601840.10 34601840.23 0.0513 0.0009

Mars 90025-01-01 22:19 G 34602017.35 34602017.43 34602017.50 0.1595 0.1192

Venus 90027-05-29 11:17 G 34602894.88 34602894.97 34602895.05 0.3621 0.2101

Pluto 90030-04-24 04:34 G 34603955.65 34603955.69 34603955.74 0.0083 0.0078

Pluto 90030-07-21 05:46 G 34604043.65 34604043.74 34604043.85 0.0083 0.0058

Jupiter 90030-09-04 02:10 G 34604088.42 34604088.59 34604088.77 0.0513 0.0136

Earth 90030-10-15 22:34 G 34604130.33 34604130.44 34604130.56 0.2629 0.0532

Moon 90030-10-15 23:17 G 34604130.36 34604130.47 34604130.58 0.2625 0.0644 *

Pluto 90030-10-17 07:12 G 34604131.68 34604131.80 34604131.93 0.0083 0.0038

Pluto 90031-01-13 08:39 G 34604219.73 34604219.86 34604220.00 0.0083 0.0018

Pluto 90031-04-11 10:05 G 34604307.78 34604307.92 34604308.06 0.0082 0.0003

Pluto 90031-07-08 11:17 G 34604395.84 34604395.97 34604396.11 0.0082 0.0023

Pluto 90031-10-04 12:43 G 34604483.91 34604484.03 34604484.16 0.0082 0.0043

Pluto 90031-12-31 13:55 G 34604572.00 34604572.08 34604572.18 0.0082 0.0063

Mars 90032-06-19 08:10 G 34604742.73 34604742.84 34604742.95 0.1589 0.0555

Mars 90034-05-25 09:36 G 34605447.80 34605447.90 34605448.00 0.1593 0.0837

Saturn 90035-05-11 15:07 G 34605799.04 34605799.13 34605799.23 0.0266 0.0180

Saturn 90035-08-08 01:12 G 34605887.42 34605887.55 34605887.68 0.0265 0.0071

Saturn 90035-11-04 11:17 G 34605975.84 34605975.97 34605976.10 0.0265 0.0039

Saturn 90036-01-31 21:22 G 34606064.28 34606064.39 34606064.50 0.0264 0.0148

Jupiter 90036-04-26 18:58 G 34606150.17 34606150.29 34606150.41 0.0514 0.0176

Saturn 90036-04-29 07:27 G 34606152.79 34606152.81 34606152.84 0.0263 0.0257

Jupiter 90036-07-24 23:46 G 34606239.47 34606239.49 34606239.51 0.0511 0.0502

Mars 90037-03-08 08:53 G 34606465.75 34606465.87 34606465.98 0.1944 0.1378

Uranus 90038-06-27 04:19 G 34606941.66 34606941.68 34606941.71 0.0143 0.0140

Uranus 90038-09-23 07:55 G 34607029.76 34607029.83 34607029.91 0.0143 0.0118

Uranus 90038-12-20 11:31 G 34607117.89 34607117.98 34607118.08 0.0143 0.0096

Uranus 90039-03-18 15:07 G 34607206.02 34607206.13 34607206.25 0.0143 0.0074

Uranus 90039-06-14 18:58 G 34607294.17 34607294.29 34607294.41 0.0143 0.0052

Uranus 90039-09-10 22:34 G 34607382.31 34607382.44 34607382.57 0.0143 0.0030

Uranus 90039-12-08 02:10 G 34607470.46 34607470.59 34607470.73 0.0143 0.0009

Uranus 90040-03-05 06:00 G 34607558.61 34607558.75 34607558.88 0.0143 0.0015

Uranus 90040-06-01 09:36 G 34607646.77 34607646.90 34607647.03 0.0143 0.0037

Uranus 90040-08-28 13:12 G 34607734.94 34607735.05 34607735.18 0.0143 0.0060

Uranus 90040-11-24 17:03 G 34607823.10 34607823.21 34607823.32 0.0143 0.0083

Uranus 90041-02-20 20:39 G 34607911.28 34607911.36 34607911.46 0.0143 0.0106

Moon 90041-04-15 02:24 G 34607964.48 34607964.60 34607964.72 0.2697 0.1684

Earth 90041-04-15 02:39 G 34607964.49 34607964.61 34607964.72 0.2703 0.1657 *

Uranus 90041-05-20 00:29 G 34607999.47 34607999.52 34607999.59 0.0143 0.0128

Mars 90041-11-09 19:55 G 34608173.23 34608173.33 34608173.43 0.1588 0.0887

Jupiter 90042-06-22 22:05 G 34608398.31 34608398.42 34608398.54 0.0512 0.0396

Mars 90043-10-15 21:22 G 34608878.27 34608878.39 34608878.50 0.1592 0.0498

Earth 90043-10-18 16:48 G 34608881.12 34608881.20 34608881.28 0.2628 0.1910

Moon 90043-10-18 17:03 G 34608881.13 34608881.21 34608881.29 0.2622 0.1864 *

Neptune 90045-05-15 07:12 G 34609455.77 34609455.80 34609455.86 0.0090 0.0087

Neptune 90045-08-11 11:03 G 34609543.86 34609543.96 34609544.06 0.0090 0.0076

Neptune 90045-11-07 14:10 G 34609631.98 34609632.09 34609632.24 0.0090 0.0066

Neptune 90046-02-03 17:46 G 34609720.10 34609720.24 34609720.40 0.0090 0.0055

Neptune 90046-05-02 21:22 G 34609808.23 34609808.39 34609808.56 0.0090 0.0044

Mars 90046-07-29 01:55 G 34609895.42 34609895.58 34609895.75 0.1946 0.0170

Neptune 90046-07-30 00:58 G 34609896.37 34609896.54 34609896.72 0.0090 0.0033

Neptune 90046-10-26 04:34 G 34609984.50 34609984.69 34609984.87 0.0090 0.0022

Neptune 90047-01-22 07:55 G 34610072.64 34610072.83 34610073.02 0.0090 0.0011

Neptune 90047-04-20 11:17 G 34610160.79 34610160.97 34610161.16 0.0090 0.0002

Neptune 90047-07-17 14:53 G 34610248.93 34610249.12 34610249.31 0.0090 0.0010

Neptune 90047-10-13 18:15 G 34610337.08 34610337.26 34610337.44 0.0090 0.0021

Neptune 90048-01-09 21:22 G 34610425.23 34610425.39 34610425.58 0.0090 0.0032

Jupiter 90048-02-13 23:31 G 34610460.39 34610460.48 34610460.58 0.0514 0.0340

Neptune 90048-04-07 00:58 G 34610513.38 34610513.54 34610513.71 0.0090 0.0042

Jupiter 90048-05-13 04:19 G 34610549.59 34610549.68 34610549.78 0.0512 0.0337

Neptune 90048-07-04 04:05 G 34610601.53 34610601.67 34610601.84 0.0090 0.0053

Neptune 90048-09-30 07:41 G 34610689.69 34610689.82 34610689.96 0.0090 0.0063

Neptune 90048-12-27 10:48 G 34610777.86 34610777.95 34610778.07 0.0090 0.0074

Neptune 90049-03-25 14:24 G 34610866.04 34610866.10 34610866.17 0.0090 0.0084

Earth 90050-10-11 15:36 G 34611431.08 34611431.15 34611431.23 0.2630 0.1925

Moon 90050-10-11 16:19 G 34611431.10 34611431.18 34611431.26 0.2634 0.1818 *

Saturn 90051-02-24 14:24 G 34611567.07 34611567.10 34611567.14 0.0296 0.0288

Mars 90051-04-02 07:41 G 34611603.75 34611603.82 34611603.90 0.1587 0.1216

Saturn 90051-05-24 16:05 G 34611655.99 34611656.17 34611656.35 0.0297 0.0070

Saturn 90051-08-21 17:17 G 34611745.07 34611745.22 34611745.38 0.0298 0.0149

Mars 90053-03-07 08:53 G 34612308.75 34612308.87 34612308.98 0.1590 0.0162

Venus 90053-07-19 18:58 G 34612443.20 34612443.29 34612443.38 0.3751 0.3033

Moon 90054-04-18 06:58 G 34612715.65 34612715.79 34612715.93 0.2699 0.1107

Earth 90054-04-18 08:10 G 34612715.70 34612715.84 34612715.97 0.2704 0.1168 *

Jupiter 90054-07-10 06:15 G 34612798.64 34612798.76 34612798.89 0.0514 0.0358

Mars 90055-02-10 10:48 G 34613013.94 34613013.95 34613013.97 0.1597 0.1580

Mars 90055-12-18 17:31 G 34613325.10 34613325.23 34613325.37 0.1947 0.1117

Jupiter 90059-12-03 04:05 G 34614770.65 34614770.67 34614770.69 0.0514 0.0507

Jupiter 90060-03-01 08:39 G 34614859.74 34614859.86 34614859.99 0.0512 0.0168

Mars 90060-08-22 19:41 G 34615034.29 34615034.32 34615034.34 0.1587 0.1542

Mars 90062-07-28 20:24 G 34615739.24 34615739.35 34615739.47 0.1589 0.0191

Earth 90063-10-14 09:36 G 34616181.79 34616181.90 34616182.01 0.2629 0.0581

Moon 90063-10-14 10:19 G 34616181.82 34616181.93 34616182.04 0.2630 0.0466 *

Mars 90064-07-02 22:05 G 34616444.35 34616444.42 34616444.50 0.1595 0.1224

Saturn 90064-09-27 18:00 G 34616531.18 34616531.25 34616531.33 0.0267 0.0212

Saturn 90064-12-25 04:05 G 34616619.55 34616619.67 34616619.80 0.0266 0.0102

Saturn 90065-03-23 14:10 G 34616707.96 34616708.09 34616708.23 0.0265 0.0009

Saturn 90065-06-20 00:15 G 34616796.39 34616796.51 34616796.63 0.0265 0.0117

Saturn 90065-09-16 10:19 G 34616884.87 34616884.93 34616885.00 0.0264 0.0226

Jupiter 90066-04-28 02:53 G 34617108.44 34617108.62 34617108.80 0.0514 0.0105

Venus 90067-05-21 11:31 G 34617496.95 34617496.98 34617497.02 0.3623 0.3342

Mars 90071-12-19 08:10 G 34619169.73 34619169.84 34619169.95 0.1588 0.0525

Jupiter 90071-12-19 13:12 G 34619169.92 34619170.05 34619170.18 0.0512 0.0011 *

Venus 90072-12-04 02:39 G 34619520.51 34619520.61 34619520.70 0.3622 0.1288

Mars 90073-11-23 09:36 G 34619874.81 34619874.90 34619875.00 0.1593 0.0875

Mars 90076-09-06 09:51 G 34620892.81 34620892.91 34620893.02 0.1944 0.1465

Earth 90076-10-16 03:36 G 34620932.54 34620932.65 34620932.76 0.2629 0.0800

Moon 90076-10-16 04:05 G 34620932.56 34620932.67 34620932.78 0.2623 0.0833 *

Jupiter 90078-02-13 23:31 G 34621418.30 34621418.48 34621418.65 0.0513 0.0144

Venus 90078-06-19 17:31 G 34621544.13 34621544.23 34621544.33 0.3621 0.0776

Uranus 90080-04-15 15:22 G 34622210.06 34622210.14 34622210.24 0.0135 0.0117

Uranus 90080-07-12 22:34 G 34622298.31 34622298.44 34622298.59 0.0135 0.0090

Uranus 90080-10-09 05:46 G 34622386.57 34622386.74 34622386.91 0.0135 0.0063

Saturn 90080-10-10 16:05 G 34622388.00 34622388.17 34622388.34 0.0297 0.0117

Uranus 90081-01-05 12:43 G 34622474.85 34622475.03 34622475.22 0.0135 0.0037

Saturn 90081-01-07 17:17 G 34622477.05 34622477.22 34622477.40 0.0298 0.0102

Uranus 90081-04-03 19:41 G 34622563.14 34622563.32 34622563.51 0.0135 0.0011

Mars 90081-05-10 19:55 G 34622600.23 34622600.33 34622600.42 0.1588 0.0861

Uranus 90081-07-01 02:53 G 34622651.43 34622651.62 34622651.80 0.0135 0.0016

Uranus 90081-09-27 09:36 G 34622739.73 34622739.90 34622740.08 0.0135 0.0042

Uranus 90081-12-24 16:34 G 34622828.03 34622828.19 34622828.35 0.0135 0.0068

Uranus 90082-03-22 23:17 G 34622916.34 34622916.47 34622916.61 0.0135 0.0094

Uranus 90082-06-19 06:00 G 34623004.68 34623004.75 34623004.85 0.0135 0.0120

Mars 90083-04-15 21:07 G 34623305.27 34623305.38 34623305.49 0.1591 0.0524

Jupiter 90083-10-07 17:17 G 34623480.10 34623480.22 34623480.34 0.0513 0.0181

Venus 90084-01-03 08:24 G 34623567.79 34623567.85 34623567.91 0.3621 0.2867

Jupiter 90084-01-04 22:05 G 34623569.39 34623569.42 34623569.45 0.0511 0.0496

Mars 90086-01-27 02:10 G 34624322.43 34624322.59 34624322.76 0.1946 0.0225

Moon 90087-04-16 08:39 G 34624766.72 34624766.86 34624766.99 0.2697 0.1205

Earth 90087-04-16 08:53 G 34624766.74 34624766.87 34624767.01 0.2703 0.1130 *

Earth 90089-10-18 21:36 G 34625683.34 34625683.40 34625683.47 0.2628 0.2196

Moon 90089-10-18 21:36 G 34625683.35 34625683.40 34625683.46 0.2622 0.2244 *

Jupiter 90089-12-02 19:55 G 34625728.22 34625728.33 34625728.45 0.0512 0.0396

Mars 90090-10-01 07:41 G 34626030.74 34626030.82 34626030.90 0.1587 0.1186

Mars 90092-09-05 08:39 G 34626735.75 34626735.86 34626735.98 0.1590 0.0186

Saturn 90094-02-14 21:36 G 34627263.34 34627263.40 34627263.46 0.0267 0.0236

Saturn 90094-05-14 07:41 G 34627351.71 34627351.82 34627351.94 0.0266 0.0126

Saturn 90094-08-10 17:46 G 34627440.11 34627440.24 34627440.37 0.0265 0.0017

Saturn 90094-11-07 03:51 G 34627528.54 34627528.66 34627528.79 0.0264 0.0093

Saturn 90095-02-03 13:55 G 34627617.00 34627617.08 34627617.17 0.0264 0.0202

Mars 90095-06-18 18:29 G 34627752.14 34627752.27 34627752.42 0.1948 0.1037

Jupiter 90095-07-26 21:36 G 34627790.31 34627790.40 34627790.49 0.0514 0.0351

Jupiter 90095-10-24 02:24 G 34627879.50 34627879.60 34627879.70 0.0512 0.0326

Earth 90096-10-11 20:24 G 34628233.27 34628233.35 34628233.44 0.2630 0.1659

Moon 90096-10-11 21:07 G 34628233.29 34628233.38 34628233.47 0.2634 0.1624 *

Mars 90100-02-21 19:27 G 34629461.28 34629461.31 34629461.35 0.1587 0.1514

Moon 90100-04-19 13:27 G 34629517.93 34629518.06 34629518.19 0.2699 0.1481

Earth 90100-04-19 14:39 G 34629517.99 34629518.11 34629518.22 0.2704 0.1694 *

Jupiter 90101-12-21 03:22 G 34630128.51 34630128.64 34630128.77 0.0514 0.0345

Mars 90102-01-27 20:24 G 34630166.23 34630166.35 34630166.47 0.1589 0.0159

Mars 90104-01-02 22:05 G 34630871.35 34630871.42 34630871.50 0.1595 0.1256

Jupiter 90107-08-13 06:58 G 34632189.66 34632189.79 34632189.91 0.0512 0.0161

Earth 90109-10-15 14:24 G 34632983.99 34632984.10 34632984.21 0.2629 0.0304

Moon 90109-10-15 15:07 G 34632984.02 34632984.13 34632984.24 0.2628 0.0195 *

Venus 90110-02-24 21:51 G 34633116.25 34633116.41 34633116.57 0.3751 0.0129

Saturn 90110-02-28 15:07 G 34633119.99 34633120.13 34633120.29 0.0296 0.0170

Saturn 90110-05-28 16:48 G 34633209.01 34633209.20 34633209.38 0.0297 0.0049

Saturn 90110-08-25 17:46 G 34633298.16 34633298.24 34633298.32 0.0298 0.0265

Mars 90111-06-20 08:10 G 34633596.73 34633596.84 34633596.95 0.1588 0.0495

Mars 90113-05-25 09:36 G 34634301.80 34634301.90 34634302.00 0.1593 0.0903

Jupiter 90113-10-09 00:00 G 34634438.32 34634438.50 34634438.68 0.0513 0.0095

Mars 90116-03-08 10:34 G 34635319.84 34635319.94 34635320.04 0.1943 0.1534

Jupiter 90119-06-01 11:17 G 34636499.85 34636499.97 34636500.10 0.0512 0.0017

Mars 90120-11-09 19:55 G 34637027.23 34637027.33 34637027.43 0.1588 0.0828

Uranus 90122-07-18 11:17 G 34637642.94 34637642.97 34637643.03 0.0143 0.0135

Uranus 90122-10-14 15:07 G 34637731.05 34637731.13 34637731.21 0.0143 0.0113

Mars 90122-10-15 21:07 G 34637732.27 34637732.38 34637732.49 0.1591 0.0557

Earth 90122-10-18 08:24 G 34637734.75 34637734.85 34637734.96 0.2628 0.1076

Moon 90122-10-18 08:53 G 34637734.77 34637734.87 34637734.97 0.2623 0.1157 *

Uranus 90123-01-10 18:43 G 34637819.18 34637819.28 34637819.39 0.0143 0.0091

Uranus 90123-04-08 22:19 G 34637907.32 34637907.43 34637907.55 0.0143 0.0069

Uranus 90123-07-06 01:55 G 34637995.46 34637995.58 34637995.71 0.0143 0.0048

Saturn 90123-07-06 00:43 G 34637995.52 34637995.53 34637995.54 0.0267 0.0265 *

Uranus 90123-10-02 05:46 G 34638083.61 34638083.74 34638083.87 0.0143 0.0025

Saturn 90123-10-02 10:48 G 34638083.84 34638083.95 34638084.06 0.0266 0.0156 *

Venus 90123-12-27 08:53 G 34638169.80 34638169.87 34638169.94 0.3622 0.2582

Uranus 90123-12-29 09:22 G 34638171.76 34638171.89 34638172.03 0.0143 0.0004

Saturn 90123-12-29 20:53 G 34638172.24 34638172.37 34638172.50 0.0266 0.0046

Uranus 90124-03-26 13:12 G 34638259.91 34638260.05 34638260.18 0.0143 0.0020

Saturn 90124-03-27 06:58 G 34638260.66 34638260.79 34638260.92 0.0265 0.0064

Uranus 90124-06-22 16:48 G 34638348.07 34638348.20 34638348.33 0.0143 0.0042

Saturn 90124-06-23 17:03 G 34638349.11 34638349.21 34638349.31 0.0264 0.0173

Uranus 90124-09-18 20:24 G 34638436.24 34638436.35 34638436.48 0.0143 0.0065

Uranus 90124-12-16 00:15 G 34638524.41 34638524.51 34638524.62 0.0143 0.0088

Uranus 90125-03-14 03:51 G 34638612.58 34638612.66 34638612.75 0.0143 0.0111

Uranus 90125-06-10 07:41 G 34638700.78 34638700.82 34638700.87 0.0143 0.0133

Jupiter 90125-07-27 20:10 G 34638748.17 34638748.34 34638748.51 0.0513 0.0162

Mars 90125-07-29 03:22 G 34638749.48 34638749.64 34638749.80 0.1946 0.0310

Neptune 90126-08-22 16:05 G 34639139.14 34639139.17 34639139.22 0.0088 0.0083

Neptune 90126-11-18 17:17 G 34639227.17 34639227.22 34639227.30 0.0088 0.0076

Neptune 90127-02-14 18:43 G 34639315.21 34639315.28 34639315.37 0.0088 0.0069

Neptune 90127-05-13 20:24 G 34639403.25 34639403.35 34639403.44 0.0088 0.0061

Neptune 90127-08-09 21:36 G 34639491.30 34639491.40 34639491.51 0.0088 0.0054

Neptune 90127-11-05 22:48 G 34639579.34 34639579.45 34639579.57 0.0088 0.0047

Neptune 90128-02-02 00:15 G 34639667.39 34639667.51 34639667.63 0.0088 0.0040

Neptune 90128-04-30 01:41 G 34639755.44 34639755.57 34639755.69 0.0088 0.0033

Neptune 90128-07-27 02:53 G 34639843.50 34639843.62 34639843.75 0.0088 0.0026

Neptune 90128-10-23 04:19 G 34639931.55 34639931.68 34639931.81 0.0088 0.0018

Neptune 90129-01-19 05:46 G 34640019.60 34640019.74 34640019.87 0.0088 0.0011

Neptune 90129-04-17 06:58 G 34640107.66 34640107.79 34640107.93 0.0088 0.0005

Venus 90129-07-11 23:46 G 34640193.39 34640193.49 34640193.59 0.3622 0.0539

Neptune 90129-07-14 08:24 G 34640195.72 34640195.85 34640195.99 0.0088 0.0003

Neptune 90129-10-10 09:51 G 34640283.77 34640283.91 34640284.04 0.0088 0.0011

Neptune 90130-01-06 11:03 G 34640371.83 34640371.96 34640372.10 0.0088 0.0018

Mars 90130-04-02 07:41 G 34640457.74 34640457.82 34640457.90 0.1587 0.1159

Neptune 90130-04-04 12:29 G 34640459.89 34640460.02 34640460.15 0.0088 0.0025

Neptune 90130-07-01 13:41 G 34640547.95 34640548.07 34640548.20 0.0088 0.0033

Neptune 90130-09-27 15:07 G 34640636.01 34640636.13 34640636.26 0.0088 0.0040

Neptune 90130-12-24 16:34 G 34640724.08 34640724.19 34640724.31 0.0088 0.0047

Jupiter 90131-03-20 15:51 G 34640810.04 34640810.16 34640810.28 0.0513 0.0177

Neptune 90131-03-22 18:00 G 34640812.14 34640812.25 34640812.36 0.0088 0.0054

Jupiter 90131-06-17 20:24 G 34640899.33 34640899.35 34640899.38 0.0511 0.0499

Neptune 90131-06-18 19:12 G 34640900.21 34640900.30 34640900.41 0.0088 0.0062

Neptune 90131-09-14 20:39 G 34640988.28 34640988.36 34640988.45 0.0088 0.0069

Neptune 90131-12-11 22:05 G 34641076.36 34641076.42 34641076.49 0.0088 0.0076

Mars 90132-03-07 08:39 G 34641162.75 34641162.86 34641162.98 0.1590 0.0217

Neptune 90132-03-08 23:17 G 34641164.44 34641164.47 34641164.52 0.0088 0.0084

Moon 90133-04-17 14:53 G 34641568.97 34641569.12 34641569.27 0.2697 0.0631

Earth 90133-04-17 15:22 G 34641569.00 34641569.14 34641569.29 0.2703 0.0598 *

Mars 90134-12-18 19:27 G 34642179.16 34642179.31 34642179.45 0.1947 0.0963

Venus 90135-01-25 14:39 G 34642217.02 34642217.11 34642217.21 0.3621 0.1548

Moon 90135-10-21 02:24 G 34642485.56 34642485.60 34642485.64 0.2622 0.2406

Earth 90135-10-21 02:39 G 34642485.57 34642485.61 34642485.64 0.2628 0.2475 *

Jupiter 90137-05-15 16:34 G 34643058.09 34643058.19 34643058.31 0.0512 0.0413

Saturn 90139-07-18 15:07 G 34643852.01 34643852.13 34643852.26 0.0296 0.0217

Mars 90139-08-23 19:27 G 34643888.27 34643888.31 34643888.35 0.1587 0.1485

Saturn 90139-10-15 16:48 G 34643941.01 34643941.20 34643941.38 0.0297 0.0008

Saturn 90140-01-12 17:46 G 34644030.12 34644030.24 34644030.37 0.0298 0.0219

Mars 90141-07-28 20:24 G 34644593.23 34644593.35 34644593.47 0.1589 0.0132

Earth 90142-10-14 01:12 G 34645035.46 34645035.55 34645035.65 0.2630 0.1393

Moon 90142-10-14 01:55 G 34645035.48 34645035.58 34645035.68 0.2633 0.1244 *

Jupiter 90143-01-06 19:41 G 34645120.23 34645120.32 34645120.41 0.0514 0.0357

Jupiter 90143-04-06 00:29 G 34645209.42 34645209.52 34645209.62 0.0512 0.0319

Mars 90143-07-03 22:05 G 34645298.36 34645298.42 34645298.49 0.1594 0.1287

Moon 90146-04-20 19:27 G 34646320.22 34646320.31 34646320.41 0.2701 0.2053

Earth 90146-04-20 20:53 G 34646320.28 34646320.37 34646320.45 0.2704 0.2201 *

Jupiter 90149-06-02 00:58 G 34647458.41 34647458.54 34647458.67 0.0514 0.0342

Mars 90150-12-19 08:10 G 34648023.72 34648023.84 34648023.95 0.1588 0.0467

Mars 90152-11-23 09:36 G 34648728.80 34648728.90 34648729.00 0.1593 0.0931

Saturn 90153-02-18 14:24 G 34648816.01 34648816.10 34648816.20 0.0266 0.0178

Saturn 90153-05-18 00:29 G 34648904.39 34648904.52 34648904.65 0.0265 0.0068

Saturn 90153-08-14 10:34 G 34648992.81 34648992.94 34648993.07 0.0265 0.0042

Saturn 90153-11-10 20:39 G 34649081.25 34649081.36 34649081.47 0.0264 0.0151

Saturn 90154-02-07 06:43 G 34649169.77 34649169.78 34649169.80 0.0264 0.0261

Jupiter 90155-01-23 04:48 G 34649519.57 34649519.70 34649519.82 0.0512 0.0148

Mars 90155-09-07 11:17 G 34649746.88 34649746.97 34649747.06 0.1944 0.1601

Earth 90155-10-16 19:12 G 34649786.19 34649786.30 34649786.42 0.2629 0.0060

Moon 90155-10-16 19:55 G 34649786.22 34649786.33 34649786.44 0.2626 0.0026 *

Mars 90160-05-10 19:55 G 34651454.22 34651454.33 34651454.43 0.1588 0.0801

Jupiter 90161-03-20 20:53 G 34651768.19 34651768.37 34651768.55 0.0513 0.0081

Mars 90162-04-15 21:07 G 34652159.27 34652159.38 34652159.49 0.1591 0.0587

Uranus 90164-05-06 22:05 G 34652911.32 34652911.42 34652911.54 0.0135 0.0111

Uranus 90164-08-03 05:17 G 34652999.58 34652999.72 34652999.87 0.0135 0.0084

Uranus 90164-10-30 12:15 G 34653087.85 34653088.01 34653088.19 0.0135 0.0058

Uranus 90165-01-26 19:27 G 34653176.13 34653176.31 34653176.50 0.0135 0.0031

Mars 90165-01-27 04:19 G 34653176.52 34653176.68 34653176.84 0.1946 0.0391

Uranus 90165-04-25 02:24 G 34653264.42 34653264.60 34653264.79 0.0135 0.0005

Uranus 90165-07-22 09:22 G 34653352.71 34653352.89 34653353.08 0.0135 0.0022

Uranus 90165-10-18 16:19 G 34653441.01 34653441.18 34653441.36 0.0135 0.0048

Uranus 90166-01-14 23:03 G 34653529.31 34653529.46 34653529.63 0.0135 0.0074

Uranus 90166-04-13 05:46 G 34653617.63 34653617.74 34653617.88 0.0135 0.0100

Uranus 90166-07-10 12:43 G 34653705.97 34653706.03 34653706.10 0.0135 0.0125

Venus 90166-10-02 00:43 G 34653789.42 34653789.53 34653789.64 0.3752 0.2755

Jupiter 90166-11-11 09:22 G 34653829.76 34653829.89 34653830.02 0.0513 0.0021

Earth 90168-10-18 13:12 G 34654536.96 34654537.05 34654537.15 0.2628 0.1357

Moon 90168-10-18 13:41 G 34654536.98 34654537.07 34654537.17 0.2623 0.1401 *

Saturn 90168-12-04 14:53 G 34654584.05 34654584.12 34654584.20 0.0296 0.0266

Saturn 90169-03-03 16:34 G 34654673.01 34654673.19 34654673.37 0.0297 0.0047

Saturn 90169-05-31 17:46 G 34654762.09 34654762.24 34654762.39 0.0298 0.0171

Mars 90169-10-01 07:41 G 34654884.74 34654884.82 34654884.90 0.1587 0.1127

Mars 90171-09-06 08:39 G 34655589.75 34655589.86 34655589.98 0.1590 0.0245

Jupiter 90173-01-06 17:17 G 34656078.05 34656078.22 34656078.39 0.0513 0.0173

Mars 90174-06-18 20:10 G 34656606.20 34656606.34 34656606.49 0.1948 0.0882

Earth 90175-10-12 12:15 G 34657086.98 34657087.01 34657087.05 0.2631 0.2464

Moon 90175-10-12 12:43 G 34657086.98 34657087.03 34657087.08 0.2636 0.2362 *

Jupiter 90178-08-30 13:55 G 34658139.96 34658140.08 34658140.20 0.0513 0.0184

Jupiter 90178-11-27 18:43 G 34658229.25 34658229.28 34658229.31 0.0511 0.0492

Mars 90179-02-21 19:27 G 34658315.27 34658315.31 34658315.36 0.1587 0.1455

Moon 90179-04-18 21:22 G 34658371.24 34658371.39 34658371.54 0.2697 0.0205

Earth 90179-04-18 22:05 G 34658371.26 34658371.42 34658371.57 0.2704 0.0098 *

Venus 90180-08-02 06:15 G 34658842.67 34658842.76 34658842.84 0.3622 0.1841

Mars 90181-01-26 20:24 G 34659020.23 34659020.35 34659020.47 0.1589 0.0098

Saturn 90182-07-08 17:46 G 34659548.16 34659548.24 34659548.32 0.0267 0.0206

Saturn 90182-10-05 03:36 G 34659636.53 34659636.65 34659636.78 0.0266 0.0097

Saturn 90183-01-01 13:41 G 34659724.94 34659725.07 34659725.21 0.0265 0.0015

Mars 90183-01-01 22:05 G 34659725.36 34659725.42 34659725.49 0.1594 0.1317

Saturn 90183-03-30 23:46 G 34659813.38 34659813.49 34659813.61 0.0265 0.0123

Saturn 90183-06-27 10:05 G 34659901.86 34659901.92 34659901.98 0.0264 0.0232

Pluto 90184-08-07 15:51 G 34660309.09 34660309.16 34660309.27 0.0061 0.0054

Jupiter 90184-10-25 13:12 G 34660387.96 34660388.05 34660388.15 0.0512 0.0433

Pluto 90184-11-03 17:17 G 34660397.10 34660397.22 34660397.35 0.0061 0.0043

Pluto 90185-01-30 18:15 G 34660485.12 34660485.26 34660485.42 0.0061 0.0033

Pluto 90185-04-28 19:27 G 34660573.15 34660573.31 34660573.48 0.0062 0.0022

Pluto 90185-07-25 20:39 G 34660661.19 34660661.36 34660661.54 0.0062 0.0011

Pluto 90185-10-21 21:51 G 34660749.23 34660749.41 34660749.59 0.0062 0.0001

Pluto 90186-01-17 22:48 G 34660837.28 34660837.45 34660837.63 0.0062 0.0010

Venus 90186-02-15 21:07 G 34660866.28 34660866.38 34660866.48 0.3621 0.0235

Pluto 90186-04-15 23:46 G 34660925.33 34660925.49 34660925.67 0.0062 0.0021

Pluto 90186-07-13 00:58 G 34661013.39 34661013.54 34661013.70 0.0062 0.0031

Pluto 90186-10-09 01:41 G 34661101.46 34661101.57 34661101.72 0.0062 0.0042

Pluto 90187-01-05 03:07 G 34661189.54 34661189.63 34661189.73 0.0062 0.0052

Earth 90188-10-14 06:15 G 34661837.65 34661837.76 34661837.86 0.2630 0.1122

Moon 90188-10-14 06:43 G 34661837.68 34661837.78 34661837.89 0.2632 0.1094 *

Jupiter 90190-06-18 18:15 G 34662450.17 34662450.26 34662450.36 0.0514 0.0354

Mars 90190-06-19 08:10 G 34662450.72 34662450.84 34662450.95 0.1588 0.0439

Jupiter 90190-09-15 23:03 G 34662539.36 34662539.46 34662539.56 0.0511 0.0322

Venus 90191-09-01 12:00 G 34662889.92 34662890.00 34662890.08 0.3621 0.2303

Moon 90192-04-21 01:41 G 34663122.53 34663122.57 34663122.62 0.2703 0.2553

Mars 90192-05-24 09:36 G 34663155.81 34663155.90 34663156.00 0.1593 0.0965

Mars 90195-03-08 12:15 G 34664173.93 34664174.01 34664174.09 0.1944 0.1678

Jupiter 90196-11-11 21:36 G 34664788.26 34664788.40 34664788.54 0.0514 0.0324

Saturn 90198-07-21 16:34 G 34665405.01 34665405.19 34665405.36 0.0297 0.0094

Saturn 90198-10-18 17:46 G 34665494.08 34665494.24 34665494.41 0.0298 0.0125

Mars 90199-11-09 19:41 G 34665881.22 34665881.32 34665881.42 0.1588 0.0771

Mars 90201-10-15 21:07 G 34666586.27 34666586.38 34666586.49 0.1591 0.0615

Earth 90201-10-18 00:15 G 34666588.39 34666588.51 34666588.62 0.2629 0.0264

Moon 90201-10-18 00:43 G 34666588.42 34666588.53 34666588.65 0.2625 0.0398 *

Jupiter 90202-07-06 02:53 G 34666849.50 34666849.62 34666849.75 0.0512 0.0140

Mars 90204-07-29 04:48 G 34667603.54 34667603.70 34667603.86 0.1946 0.0451

Uranus 90206-08-08 18:00 G 34668344.21 34668344.25 34668344.31 0.0143 0.0132

Uranus 90206-11-04 21:51 G 34668432.33 34668432.41 34668432.50 0.0143 0.0110

Uranus 90207-02-01 01:27 G 34668520.46 34668520.56 34668520.67 0.0143 0.0088

Uranus 90207-04-30 05:03 G 34668608.60 34668608.71 34668608.83 0.0143 0.0066

Uranus 90207-07-27 08:39 G 34668696.74 34668696.86 34668696.99 0.0143 0.0045

Uranus 90207-10-23 12:29 G 34668784.89 34668785.02 34668785.15 0.0143 0.0022

Uranus 90208-01-19 16:05 G 34668873.04 34668873.17 34668873.31 0.0143 0.0003

Uranus 90208-04-16 19:55 G 34668961.19 34668961.33 34668961.46 0.0143 0.0023

Uranus 90208-07-13 23:31 G 34669049.35 34669049.48 34669049.61 0.0143 0.0045

Jupiter 90208-08-31 18:29 G 34669098.09 34669098.27 34669098.45 0.0513 0.0077

Uranus 90208-10-10 03:07 G 34669137.52 34669137.63 34669137.75 0.0143 0.0068

Uranus 90209-01-06 06:58 G 34669225.69 34669225.79 34669225.90 0.0143 0.0091

Mars 90209-04-02 07:41 G 34669311.73 34669311.82 34669311.90 0.1587 0.1099

Uranus 90209-04-04 10:34 G 34669313.87 34669313.94 34669314.03 0.0143 0.0114

Uranus 90209-07-01 14:24 G 34669402.07 34669402.10 34669402.15 0.0143 0.0136

Neptune 90210-02-11 06:15 G 34669626.69 34669626.76 34669626.85 0.0090 0.0081

Neptune 90210-05-10 09:51 G 34669714.80 34669714.91 34669715.03 0.0090 0.0070

Neptune 90210-08-06 13:27 G 34669802.92 34669803.06 34669803.20 0.0090 0.0059

Neptune 90210-11-02 16:34 G 34669891.05 34669891.19 34669891.37 0.0090 0.0049

Neptune 90211-01-29 20:10 G 34669979.18 34669979.34 34669979.53 0.0090 0.0038

Mars 90211-03-08 08:39 G 34670016.74 34670016.86 34670016.98 0.1590 0.0271

Neptune 90211-04-27 23:46 G 34670067.32 34670067.49 34670067.68 0.0090 0.0027

Neptune 90211-07-25 03:22 G 34670155.46 34670155.64 34670155.83 0.0090 0.0016

Neptune 90211-10-21 06:58 G 34670243.60 34670243.79 34670243.98 0.0090 0.0005

Saturn 90211-11-26 21:22 G 34670280.33 34670280.39 34670280.46 0.0267 0.0228

Neptune 90212-01-17 10:19 G 34670331.74 34670331.93 34670332.12 0.0090 0.0006

Saturn 90212-02-23 07:27 G 34670368.69 34670368.81 34670368.93 0.0266 0.0118

Neptune 90212-04-14 13:41 G 34670419.89 34670420.07 34670420.26 0.0090 0.0017

Earth 90212-04-16 22:34 G 34670422.38 34670422.44 34670422.51 0.2703 0.2389

Moon 90212-04-16 22:34 G 34670422.39 34670422.44 34670422.50 0.2696 0.2485 *

Saturn 90212-05-21 17:31 G 34670457.10 34670457.23 34670457.36 0.0265 0.0009

Neptune 90212-07-11 17:17 G 34670508.04 34670508.22 34670508.40 0.0090 0.0027

Saturn 90212-08-18 03:36 G 34670545.53 34670545.65 34670545.78 0.0264 0.0101

Neptune 90212-10-07 20:24 G 34670596.19 34670596.35 34670596.53 0.0090 0.0038

Saturn 90212-11-14 13:41 G 34670634.00 34670634.07 34670634.15 0.0264 0.0211

Neptune 90213-01-04 00:00 G 34670684.35 34670684.50 34670684.66 0.0090 0.0048

Neptune 90213-04-02 03:07 G 34670772.50 34670772.63 34670772.79 0.0090 0.0059

Neptune 90213-06-29 06:58 G 34670860.67 34670860.79 34670860.90 0.0090 0.0069

Neptune 90213-09-25 09:51 G 34670948.84 34670948.91 34670949.01 0.0090 0.0080

Mars 90213-12-18 21:07 G 34671033.23 34671033.38 34671033.53 0.1948 0.0809

Jupiter 90214-04-24 07:12 G 34671159.67 34671159.80 34671159.93 0.0513 0.0033

Earth 90214-10-20 18:15 G 34671339.17 34671339.26 34671339.35 0.2628 0.1633

Moon 90214-10-20 18:29 G 34671339.18 34671339.27 34671339.36 0.2622 0.1642 *

Venus 90217-10-23 15:22 G 34672438.07 34672438.14 34672438.21 0.3751 0.3374

Mars 90218-08-23 19:27 G 34672742.26 34672742.31 34672742.36 0.1587 0.1426

Jupiter 90220-06-19 14:24 G 34673407.93 34673408.10 34673408.27 0.0512 0.0185

Mars 90220-07-28 20:24 G 34673447.23 34673447.35 34673447.47 0.1589 0.0072

Earth 90221-10-13 17:03 G 34673889.15 34673889.21 34673889.27 0.2630 0.2196

Moon 90221-10-13 17:31 G 34673889.17 34673889.23 34673889.29 0.2636 0.2188 *

Mars 90222-07-03 22:05 G 34674152.36 34674152.42 34674152.49 0.1595 0.1349

Moon 90225-04-20 03:36 G 34675173.50 34675173.65 34675173.80 0.2698 0.0450

Earth 90225-04-20 04:19 G 34675173.54 34675173.68 34675173.83 0.2704 0.0477 *

Jupiter 90226-02-10 11:46 G 34675469.87 34675469.99 34675470.11 0.0514 0.0199

Jupiter 90226-05-10 16:34 G 34675559.15 34675559.19 34675559.23 0.0511 0.0479

Saturn 90227-12-09 16:05 G 34676137.01 34676137.17 34676137.34 0.0297 0.0144

Saturn 90228-03-07 17:31 G 34676226.06 34676226.23 34676226.41 0.0298 0.0076

Saturn 90228-06-04 18:43 G 34676315.25 34676315.28 34676315.31 0.0298 0.0293

Mars 90229-12-19 07:55 G 34676877.72 34676877.83 34676877.95 0.1588 0.0410

Venus 90231-08-25 12:29 G 34677491.97 34677492.02 34677492.07 0.3622 0.3123

Mars 90231-11-24 09:36 G 34677582.81 34677582.90 34677582.99 0.1593 0.0996

Jupiter 90232-04-07 10:34 G 34677717.85 34677717.94 34677718.03 0.0512 0.0440

Mars 90234-09-07 12:58 G 34678600.97 34678601.04 34678601.11 0.1944 0.1755

Earth 90234-10-16 11:03 G 34678639.85 34678639.96 34678640.07 0.2630 0.0851

Moon 90234-10-16 11:46 G 34678639.88 34678639.99 34678640.10 0.2630 0.0696 *

Venus 90237-03-10 03:22 G 34679515.54 34679515.64 34679515.74 0.3622 0.1081

Jupiter 90237-11-29 16:34 G 34679780.10 34679780.19 34679780.28 0.0514 0.0362

Jupiter 90238-02-26 21:07 G 34679869.28 34679869.38 34679869.48 0.0512 0.0314

Mars 90239-05-11 19:41 G 34680308.22 34680308.32 34680308.43 0.1588 0.0739

Saturn 90241-04-15 00:43 G 34681012.50 34681012.53 34681012.57 0.0267 0.0255

Mars 90241-04-15 21:07 G 34681013.27 34681013.38 34681013.49 0.1591 0.0648

Saturn 90241-07-12 10:34 G 34681100.84 34681100.94 34681101.06 0.0266 0.0146

Saturn 90241-10-08 20:39 G 34681189.23 34681189.36 34681189.50 0.0265 0.0038

Saturn 90242-01-05 06:43 G 34681277.66 34681277.78 34681277.91 0.0265 0.0074

Saturn 90242-04-03 16:48 G 34681366.11 34681366.20 34681366.30 0.0264 0.0183

Venus 90242-09-23 18:15 G 34681539.17 34681539.26 34681539.36 0.3621 0.1002

Mars 90244-01-28 05:46 G 34682030.58 34682030.74 34682030.89 0.1946 0.0532

Jupiter 90244-04-24 18:00 G 34682118.11 34682118.25 34682118.40 0.0514 0.0304

Earth 90247-10-19 05:03 G 34683390.60 34683390.71 34683390.82 0.2629 0.0523

Moon 90247-10-19 05:46 G 34683390.62 34683390.74 34683390.85 0.2625 0.0558 *

Uranus 90248-02-29 21:36 G 34683524.37 34683524.40 34683524.45 0.0135 0.0132

Venus 90248-04-08 09:22 G 34683562.84 34683562.89 34683562.94 0.3620 0.3067

Uranus 90248-05-28 04:48 G 34683612.59 34683612.70 34683612.83 0.0135 0.0105

Uranus 90248-08-24 12:00 G 34683700.85 34683701.00 34683701.16 0.0135 0.0078

Mars 90248-10-01 07:27 G 34683738.73 34683738.81 34683738.90 0.1587 0.1072

Uranus 90248-11-20 18:58 G 34683789.13 34683789.29 34683789.48 0.0135 0.0052

Uranus 90249-02-17 02:10 G 34683877.41 34683877.59 34683877.78 0.0135 0.0025

Uranus 90249-05-16 09:07 G 34683965.70 34683965.88 34683966.07 0.0135 0.0004

Uranus 90249-08-12 16:05 G 34684053.99 34684054.17 34684054.36 0.0135 0.0028

Uranus 90249-11-08 22:48 G 34684142.29 34684142.45 34684142.63 0.0135 0.0054

Jupiter 90249-12-16 01:27 G 34684179.44 34684179.56 34684179.69 0.0512 0.0146

Uranus 90250-02-05 05:46 G 34684230.60 34684230.74 34684230.90 0.0135 0.0080

Uranus 90250-05-04 12:29 G 34684318.92 34684319.02 34684319.15 0.0135 0.0106

Uranus 90250-07-31 19:27 G 34684407.28 34684407.31 34684407.36 0.0135 0.0131

Mars 90250-09-06 08:39 G 34684443.74 34684443.86 34684443.98 0.1590 0.0304

Mars 90253-06-18 21:51 G 34685460.26 34685460.41 34685460.57 0.1948 0.0732

Jupiter 90256-02-11 15:07 G 34686427.95 34686428.13 34686428.31 0.0513 0.0058

Saturn 90257-04-27 15:22 G 34686869.01 34686869.14 34686869.28 0.0296 0.0195

Saturn 90257-07-25 17:03 G 34686958.03 34686958.21 34686958.39 0.0297 0.0024

Saturn 90257-10-22 18:15 G 34687047.16 34687047.26 34687047.37 0.0298 0.0242

Mars 90258-02-21 19:27 G 34687169.25 34687169.31 34687169.36 0.1587 0.1397

Moon 90258-04-18 05:03 G 34687224.59 34687224.71 34687224.82 0.2695 0.1767

Earth	90258-04-18 05:03 G	34687224.60	34687224.71	34687224.82	0.2703	0.1858 *
Mars	90260-01-27 20:10 G	34687874.23	34687874.34	34687874.46	0.1589	0.0076
Earth	90260-10-20 23:03 G	34688141.38	34688141.46	34688141.54	0.2628	0.1914
Moon	90260-10-20 23:03 G	34688141.39	34688141.46	34688141.54	0.2622	0.1962 *
Jupiter	90261-10-04 05:17 G	34688489.59	34688489.72	34688489.85	0.0513	0.0040
Mars	90262-01-01 22:05 G	34688579.37	34688579.42	34688579.48	0.1594	0.1379
Earth	90267-10-14 22:05 G	34690691.34	34690691.42	34690691.49	0.2630	0.1930
Moon	90267-10-14 22:19 G	34690691.36	34690691.43	34690691.51	0.2636	0.1832 *
Jupiter	90267-11-30 12:00 G	34690737.83	34690738.00	34690738.17	0.0513	0.0187
Mars	90269-06-19 07:55 G	34691304.72	34691304.83	34691304.95	0.1588	0.0377
Saturn	90270-11-29 14:24 G	34691833.00	34691833.10	34691833.20	0.0266	0.0168
Saturn	90271-02-26 00:29 G	34691921.39	34691921.52	34691921.65	0.0265	0.0058
Moon	90271-04-21 09:51 G	34691975.76	34691975.91	34691976.05	0.2699	0.0765
Earth	90271-04-21 10:48 G	34691975.81	34691975.95	34691976.09	0.2704	0.1006 *
Mars	90271-05-25 09:36 G	34692009.81	34692009.90	34692009.99	0.1593	0.1024
Saturn	90271-05-25 10:34 G	34692009.81	34692009.94	34692010.07	0.0265	0.0051 *
Saturn	90271-08-21 20:39 G	34692098.25	34692098.36	34692098.46	0.0264	0.0160
Jupiter	90273-07-23 09:36 G	34692799.79	34692799.90	34692800.02	0.0514	0.0211
Jupiter	90273-10-20 14:24 G	34692889.05	34692889.10	34692889.15	0.0511	0.0466
Mars	90274-03-08 13:27 G	34693028.01	34693028.06	34693028.12	0.1944	0.1817
Venus	90274-05-30 18:15 G	34693111.10	34693111.26	34693111.42	0.3751	0.0466
Pluto	90276-12-10 16:34 G	34694036.18	34694036.19	34694036.21	0.0083	0.0082
Pluto	90277-03-08 17:46 G	34694124.16	34694124.24	34694124.35	0.0083	0.0062
Pluto	90277-06-04 19:12 G	34694212.19	34694212.30	34694212.43	0.0083	0.0042
Pluto	90277-08-31 20:39 G	34694300.23	34694300.36	34694300.50	0.0083	0.0022
Pluto	90277-11-27 22:05 G	34694388.28	34694388.42	34694388.56	0.0082	0.0002
Pluto	90278-02-23 23:17 G	34694476.34	34694476.47	34694476.62	0.0082	0.0019
Pluto	90278-05-23 00:29 G	34694564.41	34694564.52	34694564.66	0.0082	0.0040
Pluto	90278-08-19 01:55 G	34694652.49	34694652.58	34694652.69	0.0082	0.0059
Mars	90278-11-09 19:41 G	34694735.22	34694735.32	34694735.43	0.1588	0.0710

Pluto 90278-11-15 03:07 G 34694740.61 34694740.63 34694740.68 0.0082 0.0079

Jupiter 90279-09-18 07:41 G 34695047.74 34695047.82 34695047.92 0.0512 0.0448

Mars 90280-10-14 21:07 G 34695440.27 34695440.38 34695440.49 0.1591 0.0679

Earth 90280-10-16 15:51 G 34695442.05 34695442.16 34695442.27 0.2630 0.0575

Moon 90280-10-16 16:34 G 34695442.08 34695442.19 34695442.30 0.2629 0.0530 *

Mars 90283-07-29 06:43 G 34696457.63 34696457.78 34696457.94 0.1946 0.0620

Jupiter 90285-05-11 14:10 G 34697110.01 34697110.09 34697110.18 0.0514 0.0378

Jupiter 90285-08-08 18:58 G 34697199.19 34697199.29 34697199.39 0.0512 0.0300

Saturn 90286-09-14 15:07 G 34697601.03 34697601.13 34697601.24 0.0296 0.0245

Saturn 90286-12-12 16:48 G 34697690.02 34697690.20 34697690.38 0.0297 0.0025

Saturn 90287-03-11 18:00 G 34697779.12 34697779.25 34697779.39 0.0298 0.0194

Venus 90288-03-31 09:51 G 34698164.83 34698164.91 34698164.98 0.3622 0.2370

Mars 90288-04-01 07:27 G 34698165.73 34698165.81 34698165.90 0.1587 0.1041

Mars 90290-03-07 08:39 G 34698870.74 34698870.86 34698870.98 0.1590 0.0333

Uranus 90290-08-29 00:43 G 34699045.49 34699045.53 34699045.60 0.0143 0.0129

Uranus 90290-11-25 04:34 G 34699133.61 34699133.69 34699133.78 0.0143 0.0107

Uranus 90291-02-21 08:10 G 34699221.74 34699221.84 34699221.95 0.0143 0.0085

Neptune 90291-02-21 14:39 G 34699222.09 34699222.11 34699222.15 0.0088 0.0086

Uranus 90291-05-20 11:46 G 34699309.88 34699309.99 34699310.11 0.0143 0.0063

Neptune 90291-05-20 15:51 G 34699310.12 34699310.16 34699310.23 0.0088 0.0079

Uranus 90291-08-16 15:22 G 34699398.02 34699398.14 34699398.27 0.0143 0.0042

Neptune 90291-08-16 17:17 G 34699398.15 34699398.22 34699398.31 0.0088 0.0072 *

Jupiter 90291-10-05 15:51 G 34699448.01 34699448.16 34699448.31 0.0514 0.0300

Uranus 90291-11-12 19:12 G 34699486.17 34699486.30 34699486.43 0.0143 0.0019

Neptune 90291-11-12 18:29 G 34699486.20 34699486.27 34699486.38 0.0088 0.0065 *

Neptune 90292-02-08 20:10 G 34699574.24 34699574.34 34699574.44 0.0088 0.0057

Uranus 90292-02-08 22:48 G 34699574.32 34699574.45 34699574.59 0.0143 0.0004 *

Neptune 90292-05-06 21:36 G 34699662.29 34699662.40 34699662.51 0.0088 0.0050

Uranus 90292-05-07 02:24 G 34699662.47 34699662.60 34699662.74 0.0143 0.0026 *

Neptune 90292-08-02 22:48 G 34699750.34 34699750.45 34699750.57 0.0088 0.0043

Uranus 90292-08-03 06:15 G 34699750.63 34699750.76 34699750.89 0.0143 0.0048

Neptune 90292-10-30 00:00 G 34699838.38 34699838.50 34699838.63 0.0088 0.0036

Uranus 90292-10-30 09:51 G 34699838.80 34699838.91 34699839.03 0.0143 0.0071

Mars 90292-12-17 22:34 G 34699887.29 34699887.44 34699887.60 0.1948 0.0658

Neptune 90293-01-26 01:27 G 34699926.44 34699926.56 34699926.69 0.0088 0.0029

Uranus 90293-01-26 13:41 G 34699926.97 34699927.07 34699927.17 0.0143 0.0093

Neptune 90293-04-24 02:53 G 34700014.49 34700014.62 34700014.75 0.0088 0.0022

Uranus 90293-04-24 17:17 G 34700015.15 34700015.22 34700015.31 0.0143 0.0116

Neptune 90293-07-21 04:05 G 34700102.54 34700102.67 34700102.81 0.0088 0.0015

Uranus 90293-07-21 21:07 G 34700103.35 34700103.38 34700103.42 0.0143 0.0139

Venus 90293-10-15 00:43 G 34700188.43 34700188.53 34700188.63 0.3622 0.0326

Neptune 90293-10-17 05:31 G 34700190.60 34700190.73 34700190.87 0.0088 0.0007

Earth 90293-10-19 09:51 G 34700192.80 34700192.91 34700193.02 0.2629 0.0798

Moon 90293-10-19 10:19 G 34700192.83 34700192.93 34700193.04 0.2625 0.0944 *

Neptune 90294-01-13 06:58 G 34700278.65 34700278.79 34700278.92 0.0088 0.0002

Neptune 90294-04-11 08:10 G 34700366.71 34700366.84 34700366.98 0.0088 0.0007

Neptune 90294-07-08 09:36 G 34700454.77 34700454.90 34700455.03 0.0088 0.0014

Neptune 90294-10-04 10:48 G 34700542.82 34700542.95 34700543.09 0.0088 0.0022

Neptune 90294-12-31 12:15 G 34700630.88 34700631.01 34700631.14 0.0088 0.0029

Neptune 90295-03-29 13:41 G 34700718.94 34700719.07 34700719.19 0.0088 0.0036

Neptune 90295-06-25 14:53 G 34700807.01 34700807.12 34700807.24 0.0088 0.0044

Neptune 90295-09-21 16:19 G 34700895.07 34700895.18 34700895.29 0.0088 0.0051

Neptune 90295-12-18 17:46 G 34700983.14 34700983.24 34700983.34 0.0088 0.0058

Neptune 90296-03-15 18:58 G 34701071.21 34701071.29 34701071.39 0.0088 0.0065

Neptune 90296-06-11 20:24 G 34701159.28 34701159.35 34701159.43 0.0088 0.0073

Neptune 90296-09-07 21:51 G 34701247.36 34701247.41 34701247.47 0.0088 0.0080

Neptune 90296-12-04 23:03 G 34701335.46 34701335.46 34701335.48 0.0088 0.0088

Jupiter 90297-05-27 23:46 G 34701509.36 34701509.49 34701509.61 0.0512 0.0138

Mars 90297-08-22 19:27 G 34701596.25 34701596.31 34701596.36 0.1587 0.1368

Venus 90299-04-30 15:36 G 34702212.06 34702212.15 34702212.24 0.3621 0.1754

Mars 90299-07-28 20:24 G 34702301.23 34702301.35 34702301.46 0.1589 0.0046

Saturn 90300-04-18 17:31 G 34702565.15 34702565.23 34702565.32 0.0266 0.0196

Saturn 90300-07-16 03:36 G 34702653.52 34702653.65 34702653.77 0.0265 0.0087

Saturn 90300-10-12 13:41 G 34702741.93 34702742.07 34702742.20 0.0265 0.0023

Saturn 90301-01-08 23:31 G 34702830.37 34702830.48 34702830.60 0.0264 0.0132

Saturn 90301-04-07 09:51 G 34702918.86 34702918.91 34702918.96 0.0264 0.0241

Mars 90301-07-03 22:05 G 34703006.37 34703006.42 34703006.48 0.1594 0.1411

Mars 90302-05-10 14:24 G 34703317.10 34703317.10 34703317.11 0.1949 0.1945

Jupiter 90303-07-25 12:00 G 34703757.82 34703758.00 34703758.18 0.0513 0.0043

Moon 90304-04-19 11:31 G 34704026.85 34704026.98 34704027.11 0.2696 0.1427

Earth 90304-04-19 11:31 G 34704026.85 34704026.98 34704027.12 0.2703 0.1315 *

Moon 90306-10-23 03:51 G 34704943.60 34704943.66 34704943.73 0.2621 0.2127

Earth 90306-10-23 03:51 G 34704943.60 34704943.66 34704943.72 0.2628 0.2195 *

Mars 90308-12-19 07:55 G 34705731.72 34705731.83 34705731.95 0.1588 0.0347

Jupiter 90309-03-17 04:19 G 34705819.55 34705819.68 34705819.80 0.0513 0.0034

Mars 90310-11-24 09:36 G 34706436.81 34706436.90 34706436.99 0.1593 0.1059

Mars 90313-09-07 14:39 G 34707455.08 34707455.11 34707455.14 0.1944 0.1899

Earth 90313-10-16 02:53 G 34707493.53 34707493.62 34707493.70 0.2630 0.1657

Moon 90313-10-16 03:22 G 34707493.55 34707493.64 34707493.73 0.2634 0.1605 *

Jupiter 90315-05-13 08:53 G 34708067.70 34708067.87 34708068.04 0.0513 0.0202

Saturn 90316-05-01 15:07 G 34708421.95 34708422.13 34708422.31 0.0297 0.0085

Saturn 90316-07-29 16:34 G 34708511.03 34708511.19 34708511.35 0.0298 0.0134

Moon 90317-04-22 15:51 G 34708778.03 34708778.16 34708778.29 0.2700 0.1451

Earth 90317-04-22 17:17 G 34708778.09 34708778.22 34708778.34 0.2704 0.1523 *

Mars 90318-05-11 19:41 G 34709162.21 34709162.32 34709162.42 0.1587 0.0682

Mars 90320-04-15 21:07 G 34709867.27 34709867.38 34709867.48 0.1591 0.0707

Jupiter 90321-01-03 07:55 G 34710129.72 34710129.83 34710129.95 0.0514 0.0215

Jupiter 90321-04-02 12:43 G 34710218.98 34710219.03 34710219.09 0.0511 0.0463

Mars 90323-01-28 06:58 G 34710884.64 34710884.79 34710884.95 0.1946 0.0672

Earth 90326-10-18 20:39 G 34712244.25 34712244.36 34712244.48 0.2629 0.0319

Moon 90326-10-18 21:36 G 34712244.28 34712244.40 34712244.51 0.2628 0.0173 *

Jupiter 90327-03-01 05:46 G 34712377.66 34712377.74 34712377.84 0.0512 0.0445

Mars 90327-10-02 07:27 G 34712592.72 34712592.81 34712592.90 0.1587 0.1011

Saturn 90329-09-05 21:07 G 34713297.31 34713297.38 34713297.45 0.0266 0.0220

Mars 90329-09-06 08:39 G 34713297.74 34713297.86 34713297.97 0.1590 0.0364

Saturn 90329-12-03 06:58 G 34713385.68 34713385.79 34713385.92 0.0266 0.0112

Saturn 90330-03-01 17:03 G 34713474.08 34713474.21 34713474.35 0.0265 0.0006

Saturn 90330-05-29 03:07 G 34713562.51 34713562.63 34713562.75 0.0264 0.0108

Saturn 90330-08-25 13:12 G 34713650.98 34713651.05 34713651.13 0.0264 0.0217

Venus 90331-01-05 20:53 G 34713784.25 34713784.37 34713784.50 0.3752 0.2381

Uranus 90332-03-22 04:05 G 34714225.61 34714225.67 34714225.73 0.0135 0.0128

Uranus 90332-06-18 10:48 G 34714313.84 34714313.95 34714314.09 0.0135 0.0101

Mars 90332-06-18 23:46 G 34714314.33 34714314.49 34714314.65 0.1948 0.0574

Uranus 90332-09-14 18:15 G 34714402.11 34714402.26 34714402.42 0.0135 0.0074

Jupiter 90332-10-22 12:29 G 34714439.93 34714440.02 34714440.10 0.0514 0.0386

Uranus 90332-12-12 01:27 G 34714490.38 34714490.56 34714490.74 0.0135 0.0047

Jupiter 90333-01-19 17:03 G 34714529.11 34714529.21 34714529.32 0.0512 0.0291

Uranus 90333-03-10 08:24 G 34714578.66 34714578.85 34714579.04 0.0135 0.0021

Uranus 90333-06-06 15:22 G 34714666.95 34714667.14 34714667.33 0.0135 0.0006

Uranus 90333-09-02 22:19 G 34714755.25 34714755.43 34714755.62 0.0135 0.0032

Uranus 90333-11-30 05:17 G 34714843.55 34714843.72 34714843.89 0.0135 0.0058

Uranus 90334-02-26 12:00 G 34714931.86 34714932.00 34714932.16 0.0135 0.0084

Uranus 90334-05-25 18:43 G 34715020.19 34715020.28 34715020.40 0.0135 0.0110

Mars 90337-02-21 19:12 G 34716023.24 34716023.30 34716023.36 0.1587 0.1340

Mars 90339-01-27 20:24 G 34716728.23 34716728.35 34716728.46 0.1589 0.0065

Jupiter 90339-03-18 13:41 G 34716777.92 34716778.07 34716778.22 0.0513 0.0300

Earth 90339-10-21 14:39 G 34716995.01 34716995.11 34716995.22 0.2629 0.1080

Moon 90339-10-21 15:07 G 34716995.03 34716995.13 34716995.24 0.2624 0.1077 *

Mars 90341-01-01 22:05 G 34717433.37 34717433.42 34717433.47 0.1594 0.1442

Mars 90341-11-08 15:22 G 34717744.09 34717744.14 34717744.18 0.1949 0.1866

Venus 90344-11-06 06:58 G 34718837.70 34718837.79 34718837.88 0.3622 0.1618

Jupiter 90344-11-07 21:36 G 34718839.28 34718839.40 34718839.53 0.0513 0.0125

Saturn 90345-09-18 14:10 G 34719153.93 34719154.09 34719154.25 0.0297 0.0140

Saturn 90345-12-16 15:36 G 34719242.98 34719243.15 34719243.33 0.0298 0.0079

Saturn 90346-03-15 16:34 G 34719332.19 34719332.19 34719332.22 0.0299 0.0298

Mars 90348-06-19 07:55 G 34720158.71 34720158.83 34720158.95 0.1588 0.0315

Moon 90350-04-20 17:31 G 34720829.09 34720829.23 34720829.38 0.2697 0.0774

Earth 90350-04-20 18:00 G 34720829.11 34720829.25 34720829.40 0.2703 0.0778 *

Venus 90350-05-22 22:05 G 34720861.31 34720861.42 34720861.52 0.3621 0.0472

Mars 90350-05-25 09:36 G 34720863.81 34720863.90 34720863.98 0.1593 0.1088

Jupiter 90351-01-04 10:05 G 34721087.74 34721087.92 34721088.10 0.0513 0.0047

Earth 90352-10-23 08:53 G 34721745.83 34721745.87 34721745.90 0.2628 0.2477

Moon 90352-10-23 08:39 G 34721745.84 34721745.86 34721745.89 0.2621 0.2525 *

Venus 90355-12-06 12:58 G 34722884.97 34722885.04 34722885.11 0.3621 0.2512

Jupiter 90356-08-27 02:24 G 34723149.47 34723149.60 34723149.73 0.0513 0.0036

Mars 90357-11-09 19:41 G 34723589.21 34723589.32 34723589.43 0.1587 0.0649

Saturn 90359-01-24 00:00 G 34724029.46 34724029.50 34724029.55 0.0266 0.0250

Saturn 90359-04-22 10:05 G 34724117.81 34724117.92 34724118.03 0.0266 0.0141

Saturn 90359-07-19 20:10 G 34724206.20 34724206.34 34724206.47 0.0265 0.0033

Mars 90359-10-15 21:07 G 34724294.27 34724294.38 34724294.48 0.1591 0.0741

Saturn 90359-10-16 06:00 G 34724294.63 34724294.75 34724294.88 0.0264 0.0077

Earth 90359-10-17 07:41 G 34724295.73 34724295.82 34724295.92 0.2630 0.1387

Moon 90359-10-17 08:24 G 34724295.75 34724295.85 34724295.94 0.2633 0.1312 *

Saturn 90360-01-12 16:05 G 34724383.08 34724383.17 34724383.27 0.0264 0.0186

Mars 90362-07-29 08:10 G 34725311.69 34725311.84 34725311.99 0.1946 0.0760

Jupiter 90362-10-23 06:00 G 34725397.59 34725397.75 34725397.92 0.0512 0.0212

Moon 90363-04-23 22:19 G 34725580.31 34725580.43 34725580.54 0.2700 0.1762

Earth 90363-04-23 23:31 G 34725580.39 34725580.48 34725580.58 0.2704 0.2054 *

Mars 90367-04-02 07:27 G 34727019.72 34727019.81 34727019.90 0.1587 0.0983

Jupiter 90368-06-15 06:58 G 34727459.68 34727459.79 34727459.91 0.0514 0.0201

Jupiter 90368-09-12 11:46 G 34727548.95 34727548.99 34727549.04 0.0511 0.0476

Mars 90369-03-07 08:39 G 34727724.74 34727724.86 34727724.97 0.1590 0.0395

Mars 90371-12-19 00:15 G 34728741.35 34728741.51 34728741.67 0.1948 0.0509

Earth 90372-10-19 01:41 G 34729046.45 34729046.57 34729046.68 0.2629 0.0066

Moon 90372-10-19 02:24 G 34729046.49 34729046.60 34729046.71 0.2628 0.0055 *

Jupiter 90374-08-11 03:07 G 34729707.55 34729707.63 34729707.72 0.0512 0.0453

Neptune 90374-08-13 01:27 G 34729709.52 34729709.56 34729709.63 0.0090 0.0086

Uranus 90374-09-19 07:55 G 34729746.78 34729746.83 34729746.90 0.0143 0.0124

Neptune 90374-11-09 05:03 G 34729797.62 34729797.71 34729797.83 0.0090 0.0075

Uranus 90374-12-16 11:46 G 34729834.90 34729834.99 34729835.08 0.0143 0.0102

Neptune 90375-02-05 08:39 G 34729885.74 34729885.86 34729886.00 0.0090 0.0064

Saturn 90375-02-05 11:31 G 34729885.85 34729885.98 34729886.11 0.0296 0.0207 *

Uranus 90375-03-14 15:22 G 34729923.03 34729923.14 34729923.25 0.0143 0.0080

Neptune 90375-05-04 12:15 G 34729973.86 34729974.01 34729974.17 0.0090 0.0053

Saturn 90375-05-05 13:12 G 34729974.86 34729975.05 34729975.23 0.0297 0.0013

Uranus 90375-06-10 18:58 G 34730011.17 34730011.29 34730011.41 0.0143 0.0059

Neptune 90375-07-31 15:36 G 34730062.00 34730062.15 34730062.33 0.0090 0.0043

Saturn 90375-08-02 14:24 G 34730063.99 34730064.10 34730064.22 0.0298 0.0231

Uranus 90375-09-06 22:34 G 34730099.31 34730099.44 34730099.57 0.0143 0.0037

Neptune 90375-10-27 19:12 G 34730150.13 34730150.30 34730150.49 0.0090 0.0032

Uranus 90375-12-04 02:10 G 34730187.46 34730187.59 34730187.73 0.0143 0.0015

Neptune 90376-01-23 22:48 G 34730238.27 34730238.45 34730238.64 0.0090 0.0021

Uranus 90376-03-01 05:46 G 34730275.61 34730275.74 34730275.88 0.0143 0.0010

Neptune 90376-04-21 02:24 G 34730326.41 34730326.60 34730326.79 0.0090 0.0010

Uranus 90376-05-28 09:36 G 34730363.77 34730363.90 34730364.03 0.0143 0.0030

Neptune 90376-07-18 06:00 G 34730414.56 34730414.75 34730414.94 0.0090 0.0002

Mars 90376-08-22 19:12 G 34730450.24 34730450.30 34730450.37 0.1587 0.1309

Uranus 90376-08-24 13:12 G 34730451.93 34730452.05 34730452.18 0.0143 0.0053

Neptune 90376-10-14 09:22 G 34730502.70 34730502.89 34730503.08 0.0090 0.0012

Uranus 90376-11-20 16:48 G 34730540.09 34730540.20 34730540.32 0.0143 0.0076

Neptune 90377-01-10 12:43 G 34730590.85 34730591.03 34730591.22 0.0090 0.0023

Uranus 90377-02-16 20:39 G 34730628.27 34730628.36 34730628.46 0.0143 0.0098

Neptune 90377-04-08 16:19 G 34730679.00 34730679.18 34730679.35 0.0090 0.0033

Uranus 90377-05-16 00:29 G 34730716.45 34730716.52 34730716.59 0.0143 0.0121

Neptune 90377-07-05 19:27 G 34730767.16 34730767.31 34730767.49 0.0090 0.0044

Uranus 90377-08-12 04:19 G 34730804.68 34730804.68 34730804.68 0.0143 0.0143

Neptune 90377-10-01 22:48 G 34730855.32 34730855.45 34730855.61 0.0090 0.0055

Neptune 90377-12-29 02:24 G 34730943.48 34730943.60 34730943.74 0.0090 0.0065

Neptune 90378-03-27 05:31 G 34731031.65 34731031.73 34731031.85 0.0090 0.0076

Neptune 90378-06-23 09:07 G 34731119.84 34731119.88 34731119.94 0.0090 0.0086

Mars 90378-07-28 20:10 G 34731155.22 34731155.34 34731155.46 0.1589 0.0057

Jupiter 90380-04-03 10:48 G 34731769.87 34731769.95 34731770.04 0.0514 0.0385

Jupiter 90380-07-01 15:36 G 34731859.04 34731859.15 34731859.25 0.0512 0.0292

Mars 90380-07-02 22:05 G 34731860.38 34731860.42 34731860.46 0.1594 0.1472

Mars 90381-05-09 15:51 G 34732171.10 34732171.16 34732171.22 0.1949 0.1802

Earth 90385-10-21 19:41 G 34733797.22 34733797.32 34733797.41 0.2629 0.1359

Moon 90385-10-21 19:55 G 34733797.23 34733797.33 34733797.42 0.2623 0.1445 *

Jupiter 90386-08-28 12:00 G 34734107.86 34734108.00 34734108.15 0.0514 0.0312

Mars 90387-12-19 07:55 G 34734585.71 34734585.83 34734585.95 0.1588 0.0285

Saturn 90388-09-08 13:27 G 34734849.96 34734850.06 34734850.16 0.0266 0.0168

Saturn 90388-12-05 23:17 G 34734938.34 34734938.47 34734938.60 0.0265 0.0059

Saturn 90389-03-04 09:22 G 34735026.76 34735026.89 34735027.02 0.0264 0.0050

Saturn 90389-05-31 19:27 G 34735115.20 34735115.31 34735115.42 0.0264 0.0159

Mars 90389-11-23 09:36 G 34735290.81 34735290.90 34735290.98 0.1593 0.1118

Jupiter 90392-04-19 19:55 G 34736169.20 34736169.33 34736169.46 0.0513 0.0121

Earth 90392-10-14 18:43 G 34736347.24 34736347.28 34736347.32 0.2631 0.2462

Moon 90392-10-14 18:58 G 34736347.25 34736347.29 34736347.32 0.2637 0.2482 *

Venus 90395-11-28 13:26 G 34737487.00 34737487.06 34737487.12 0.3622 0.2900

Moon 90396-04-20 23:46 G 34737631.33 34737631.49 34737631.64 0.2698 0.0376

Earth 90396-04-21 00:29 G 34737631.37 34737631.52 34737631.67 0.2703 0.0246 *

Mars 90397-05-10 19:41 G 34738016.21 34738016.32 34738016.42 0.1587 0.0622

Jupiter 90398-06-16 08:24 G 34738417.67 34738417.85 34738418.03 0.0513 0.0057

Mars 90399-04-15 21:07 G 34738721.27 34738721.38 34738721.48 0.1591 0.0772

Venus 90401-06-13 04:19 G 34739510.58 34739510.68 34739510.78 0.3622 0.0868

Mars 90402-01-27 09:07 G 34739738.73 34739738.88 34739739.03 0.1946 0.0838

Jupiter 90404-02-07 00:29 G 34740479.39 34740479.52 34740479.65 0.0514 0.0044

Saturn 90404-06-24 09:50 G 34740617.83 34740617.91 34740617.98 0.0296 0.0270

Saturn 90404-09-21 11:31 G 34740706.80 34740706.98 34740707.16 0.0297 0.0049

Saturn 90404-12-19 12:43 G 34740795.89 34740796.03 34740796.19 0.0298 0.0171

Earth 90405-10-17 12:29 G 34741097.92 34741098.02 34741098.12 0.2630 0.1120

Moon 90405-10-17 13:12 G 34741097.95 34741098.05 34741098.16 0.2632 0.0990 *

Mars 90406-10-01 07:26 G 34741446.72 34741446.81 34741446.90 0.1587 0.0950

Venus 90406-12-27 19:12 G 34741534.21 34741534.30 34741534.40 0.3621 0.1200

Mars 90408-09-05 08:38 G 34742151.74 34742151.86 34742151.97 0.1590 0.0426

Moon 90409-04-24 04:34 G 34742382.63 34742382.69 34742382.75 0.2701 0.2477

Earth 90409-04-24 06:00 G 34742382.71 34742382.75 34742382.79 0.2704 0.2569 *

Jupiter 90410-04-04 04:48 G 34742727.53 34742727.70 34742727.87 0.0512 0.0196

Mars 90411-06-19 01:12 G 34743168.39 34743168.55 34743168.71 0.1948 0.0424

Venus 90412-07-12 10:05 G 34743557.88 34743557.92 34743557.97 0.3621 0.3265

Jupiter 90415-11-26 05:17 G 34744789.61 34744789.72 34744789.84 0.0514 0.0204

Mars 90416-02-21 19:12 G 34744877.23 34744877.30 34744877.37 0.1587 0.1280

Jupiter 90416-02-23 10:05 G 34744878.88 34744878.92 34744878.97 0.0512 0.0475

Uranus 90416-04-11 10:05 G 34744926.86 34744926.92 34744927.01 0.0135 0.0123

Uranus 90416-07-08 17:17 G 34745015.10 34745015.22 34745015.37 0.0135 0.0096

Uranus 90416-10-05 00:43 G 34745103.37 34745103.53 34745103.69 0.0135 0.0069

Uranus 90417-01-01 07:41 G 34745191.64 34745191.82 34745192.01 0.0135 0.0043

Uranus 90417-03-30 14:53 G 34745279.93 34745280.12 34745280.31 0.0135 0.0016

Uranus 90417-06-26 21:50 G 34745368.22 34745368.41 34745368.60 0.0135 0.0010

Uranus 90417-09-23 04:48 G 34745456.52 34745456.70 34745456.88 0.0135 0.0037

Uranus 90417-12-20 11:31 G 34745544.82 34745544.98 34745545.16 0.0135 0.0063

Saturn 90418-01-26 16:05 G 34745582.09 34745582.17 34745582.26 0.0266 0.0201

Mars 90418-01-26 20:10 G 34745582.23 34745582.34 34745582.46 0.1589 0.0097 *

Uranus 90418-03-18 18:29 G 34745633.14 34745633.27 34745633.42 0.0135 0.0089

Saturn 90418-04-25 01:55 G 34745670.46 34745670.58 34745670.71 0.0265 0.0092

Uranus 90418-06-15 01:12 G 34745721.47 34745721.55 34745721.66 0.0135 0.0115

Saturn 90418-07-22 12:00 G 34745758.87 34745759.00 34745759.13 0.0264 0.0018

Saturn 90418-10-18 22:05 G 34745847.30 34745847.42 34745847.54 0.0264 0.0126

Earth 90418-10-20 06:29 G 34745848.66 34745848.77 34745848.88 0.2629 0.0249

Moon 90418-10-20 07:12 G 34745848.68 34745848.80 34745848.91 0.2627 0.0365 *

Saturn 90419-01-15 08:10 G 34745935.78 34745935.84 34745935.90 0.0263 0.0235

Mars 90420-01-01 22:05 G 34746287.39 34746287.42 34746287.46 0.1594 0.1505

Mars 90420-11-07 17:02 G 34746598.13 34746598.21 34746598.28 0.1949 0.1716

Jupiter 90422-01-21 00:58 G 34747037.46 34747037.54 34747037.62 0.0512 0.0453

Mars 90427-06-19 07:55 G 34749012.71 34749012.83 34749012.94 0.1588 0.0258

Jupiter 90427-09-14 10:05 G 34749099.83 34749099.92 34749100.01 0.0514 0.0367

Jupiter 90427-12-12 14:53 G 34749189.02 34749189.12 34749189.22 0.0512 0.0311

Moon 90429-04-19 01:12 G 34749682.50 34749682.55 34749682.61 0.2696 0.2518

Earth 90429-04-19 00:58 G 34749682.51 34749682.54 34749682.58 0.2702 0.2613 *

Mars 90429-05-24 09:36 G 34749717.82 34749717.90 34749717.98 0.1592 0.1152

Pluto 90430-12-29 02:10 G 34750301.59 34750301.59 34750301.62 0.0061 0.0061

Pluto 90431-03-27 03:22 G 34750389.55 34750389.64 34750389.75 0.0061 0.0051

Pluto 90431-06-23 04:19 G 34750477.56 34750477.68 34750477.83 0.0061 0.0040

Pluto 90431-09-19 05:31 G 34750565.59 34750565.73 34750565.90 0.0061 0.0030

Earth 90431-10-23 00:29 G 34750599.43 34750599.52 34750599.61 0.2629 0.1640

Moon 90431-10-23 00:43 G 34750599.44 34750599.53 34750599.62 0.2622 0.1630 *

Pluto 90431-12-16 06:58 G 34750653.62 34750653.79 34750653.96 0.0062 0.0019

Pluto 90432-03-13 07:55 G 34750741.66 34750741.83 34750742.01 0.0062 0.0009

Pluto 90432-06-09 09:07 G 34750829.70 34750829.88 34750830.06 0.0062 0.0002

Pluto 90432-09-05 10:05 G 34750917.75 34750917.92 34750918.10 0.0062 0.0013

Pluto 90432-12-02 11:17 G 34751005.81 34751005.97 34751006.14 0.0062 0.0023

Pluto 90433-02-28 12:14 G 34751093.87 34751094.01 34751094.17 0.0062 0.0034

Pluto 90433-05-27 12:58 G 34751181.94 34751182.04 34751182.19 0.0062 0.0045

Pluto 90433-08-23 14:24 G 34751270.03 34751270.10 34751270.19 0.0062 0.0055

Jupiter 90434-02-07 09:50 G 34751437.77 34751437.91 34751438.06 0.0514 0.0312

Saturn 90434-02-08 07:41 G 34751438.66 34751438.82 34751438.99 0.0297 0.0126

Saturn 90434-05-08 09:22 G 34751527.71 34751527.89 34751528.06 0.0298 0.0094

Mars 90436-11-08 19:41 G 34752443.21 34752443.32 34752443.42 0.1587 0.0594

Venus 90438-09-02 14:24 G 34753105.94 34753106.10 34753106.25 0.3751 0.0869

Mars 90438-10-14 21:07 G 34753148.27 34753148.38 34753148.48 0.1591 0.0802

Earth 90438-10-15 23:31 G 34753149.42 34753149.48 34753149.54 0.2631 0.2198

Moon 90438-10-15 23:46 G 34753149.43 34753149.49 34753149.56 0.2636 0.2102 *

Jupiter 90439-09-30 18:43 G 34753499.15 34753499.28 34753499.40 0.0513 0.0128

Mars 90441-07-28 09:36 G 34754165.76 34754165.90 34754166.05 0.1946 0.0899

Moon 90442-04-22 06:00 G 34754433.59 34754433.75 34754433.90 0.2698 0.0157

Earth 90442-04-22 06:58 G 34754433.64 34754433.79 34754433.94 0.2703 0.0288 *

Jupiter 90445-11-26 07:26 G 34755747.63 34755747.81 34755747.99 0.0513 0.0076

Mars 90446-04-01 07:26 G 34755873.71 34755873.81 34755873.90 0.1587 0.0922

Saturn 90447-06-15 18:58 G 34756314.23 34756314.29 34756314.36 0.0266 0.0231

Saturn 90447-09-12 05:02 G 34756402.59 34756402.71 34756402.83 0.0266 0.0121

Saturn 90447-12-09 15:07 G 34756490.99 34756491.13 34756491.26 0.0265 0.0015

Mars 90448-03-06 08:38 G 34756578.74 34756578.86 34756578.97 0.1590 0.0458

Saturn 90448-03-07 00:58 G 34756579.42 34756579.54 34756579.67 0.0264 0.0097

Saturn 90448-06-03 11:02 G 34756667.88 34756667.96 34756668.04 0.0263 0.0206

Mars 90450-12-18 02:10 G 34757595.43 34757595.59 34757595.75 0.1948 0.0347

Jupiter 90451-07-19 23:02 G 34757809.33 34757809.46 34757809.59 0.0513 0.0043

Earth 90451-10-18 17:17 G 34757900.12 34757900.22 34757900.33 0.2630 0.0852

Moon 90451-10-18 18:14 G 34757900.15 34757900.26 34757900.36 0.2632 0.0791 *

Venus 90452-07-04 10:34 G 34758159.86 34758159.94 34758160.02 0.3622 0.2163

Mars 90455-08-22 19:12 G 34759304.23 34759304.30 34759304.37 0.1587 0.1251

Neptune 90455-11-19 14:38 G 34759393.07 34759393.11 34759393.17 0.0088 0.0081

Neptune 90456-02-15 16:05 G 34759481.10 34759481.17 34759481.24 0.0088 0.0074

Neptune 90456-05-13 17:17 G 34759569.14 34759569.22 34759569.31 0.0088 0.0067

Neptune 90456-08-09 18:43 G 34759657.19 34759657.28 34759657.38 0.0088 0.0060

Neptune 90456-11-05 19:55 G 34759745.23 34759745.33 34759745.45 0.0088 0.0053

Neptune 90457-02-01 21:22 G 34759833.28 34759833.39 34759833.51 0.0088 0.0046

Neptune 90457-04-30 22:34 G 34759921.33 34759921.44 34759921.57 0.0088 0.0039

Mars 90457-07-27 20:10 G 34760009.22 34760009.34 34760009.46 0.1589 0.0119

Neptune 90457-07-28 00:00 G 34760009.38 34760009.50 34760009.63 0.0088 0.0032 *

Jupiter 90457-09-14 03:50 G 34760057.49 34760057.66 34760057.83 0.0512 0.0176

Neptune 90457-10-24 01:26 G 34760097.43 34760097.56 34760097.69 0.0088 0.0024

Venus 90458-01-18 01:26 G 34760183.46 34760183.56 34760183.67 0.3622 0.0197

Neptune 90458-01-20 02:38 G 34760185.48 34760185.61 34760185.75 0.0088 0.0018

Neptune 90458-04-18 04:05 G 34760273.54 34760273.67 34760273.81 0.0088 0.0010

Uranus 90458-07-13 12:00 G 34760359.98 34760360.00 34760360.03 0.0143 0.0139

Neptune 90458-07-15 05:31 G 34760361.59 34760361.73 34760361.86 0.0088 0.0003

Uranus 90458-10-09 15:36 G 34760448.08 34760448.15 34760448.23 0.0143 0.0118

Neptune 90458-10-11 06:43 G 34760449.65 34760449.78 34760449.92 0.0088 0.0005

Uranus 90459-01-05 18:58 G 34760536.20 34760536.29 34760536.40 0.0143 0.0096

Neptune 90459-01-07 08:10 G 34760537.71 34760537.84 34760537.98 0.0088 0.0011

Uranus 90459-04-03 22:48 G 34760624.34 34760624.45 34760624.56 0.0143 0.0074

Neptune 90459-04-05 09:22 G 34760625.76 34760625.89 34760626.03 0.0088 0.0019

Uranus 90459-07-01 02:24 G 34760712.48 34760712.60 34760712.72 0.0143 0.0052

Neptune 90459-07-02 10:48 G 34760713.82 34760713.95 34760714.08 0.0088 0.0026

Mars 90459-07-02 22:05 G 34760714.39 34760714.42 34760714.45 0.1594 0.1537

Uranus 90459-09-27 06:00 G 34760800.62 34760800.75 34760800.88 0.0143 0.0030

Neptune 90459-09-28 12:14 G 34760801.88 34760802.01 34760802.13 0.0088 0.0033

Uranus 90459-12-24 09:36 G 34760888.77 34760888.90 34760889.04 0.0143 0.0009

Neptune 90459-12-25 13:26 G 34760889.95 34760890.06 34760890.19 0.0088 0.0041

Uranus 90460-03-21 13:26 G 34760976.92 34760977.06 34760977.19 0.0143 0.0015

Neptune 90460-03-22 14:53 G 34760978.01 34760978.12 34760978.24 0.0088 0.0048

Mars 90460-05-08 18:00 G 34761025.16 34761025.25 34761025.34 0.1949 0.1632

Uranus 90460-06-17 17:02 G 34761065.08 34761065.21 34761065.34 0.0143 0.0037

Neptune 90460-06-18 16:19 G 34761066.07 34761066.18 34761066.29 0.0088 0.0055

Uranus 90460-09-13 20:38 G 34761153.24 34761153.36 34761153.49 0.0143 0.0060

Neptune 90460-09-14 17:17 G 34761154.14 34761154.22 34761154.33 0.0088 0.0063

Uranus 90460-12-11 00:14 G 34761241.41 34761241.51 34761241.63 0.0143 0.0083

Neptune 90460-12-11 18:43 G 34761242.21 34761242.28 34761242.38 0.0088 0.0070

Uranus 90461-03-09 04:19 G 34761329.58 34761329.68 34761329.77 0.0143 0.0105

Neptune 90461-03-09 20:24 G 34761330.29 34761330.35 34761330.42 0.0088 0.0077

Uranus 90461-06-05 07:55 G 34761417.77 34761417.83 34761417.89 0.0143 0.0127

Neptune 90461-06-05 21:50 G 34761418.38 34761418.41 34761418.45 0.0088 0.0084

Jupiter 90463-05-08 03:50 G 34762119.54 34762119.66 34762119.77 0.0514 0.0207

Saturn 90463-06-28 05:17 G 34762170.58 34762170.72 34762170.86 0.0297 0.0195

Venus 90463-08-03 16:34 G 34762207.10 34762207.19 34762207.27 0.3621 0.1948

Jupiter 90463-08-05 08:24 G 34762208.81 34762208.85 34762208.90 0.0512 0.0472

Saturn 90463-09-25 06:58 G 34762259.60 34762259.79 34762259.97 0.0298 0.0026

Saturn 90463-12-23 08:10 G 34762348.74 34762348.84 34762348.95 0.0299 0.0245

Earth 90464-10-20 11:17 G 34762650.86 34762650.97 34762651.08 0.2629 0.0526

Moon 90464-10-20 12:00 G 34762650.88 34762651.00 34762651.11 0.2625 0.0627 *

Mars 90465-01-12 06:58 G 34762734.78 34762734.79 34762734.80 0.1587 0.1576

Mars 90466-12-18 07:55 G 34763439.71 34763439.83 34763439.94 0.1588 0.0227

Mars 90468-11-22 09:36 G 34764144.82 34764144.90 34764144.98 0.1593 0.1183

Jupiter 90469-07-03 00:00 G 34764367.41 34764367.50 34764367.61 0.0512 0.0429

Jupiter 90475-02-24 08:38 G 34766429.77 34766429.86 34766429.95 0.0515 0.0365

Moon 90475-04-20 07:41 G 34766484.72 34766484.82 34766484.91 0.2696 0.2131

Earth 90475-04-20 07:41 G 34766484.72 34766484.82 34766484.91 0.2702 0.2057 *

Jupiter 90475-05-24 13:26 G 34766518.96 34766519.06 34766519.16 0.0512 0.0313

Mars 90476-05-09 19:41 G 34766870.21 34766870.32 34766870.43 0.1587 0.0562

Saturn 90476-11-01 21:36 G 34767046.39 34767046.40 34767046.41 0.0266 0.0265

Saturn 90477-01-29 07:26 G 34767134.71 34767134.81 34767134.92 0.0265 0.0156

Saturn 90477-04-27 17:31 G 34767223.10 34767223.23 34767223.36 0.0265 0.0047

Saturn 90477-07-25 03:22 G 34767311.51 34767311.64 34767311.77 0.0264 0.0062

Saturn 90477-10-21 13:26 G 34767399.96 34767400.06 34767400.16 0.0263 0.0171

Earth 90477-10-23 05:17 G 34767401.65 34767401.72 34767401.80 0.2628 0.1918

Moon 90477-10-23 05:31 G 34767401.66 34767401.73 34767401.81 0.2622 0.1968 *

Mars 90478-04-14 21:07 G 34767575.27 34767575.38 34767575.48 0.1591 0.0835

Mars 90481-01-26 10:34 G 34768592.80 34768592.94 34768593.08 0.1946 0.0980

Jupiter 90481-07-20 08:10 G 34768767.70 34768767.84 34768767.98 0.0513 0.0319

Earth 90484-10-16 04:19 G 34769951.61 34769951.68 34769951.76 0.2631 0.1928

Moon 90484-10-16 04:48 G 34769951.63 34769951.70 34769951.78 0.2635 0.1924 *

Mars 90485-09-30 07:26 G 34770300.71 34770300.81 34770300.90 0.1587 0.0895

Jupiter 90487-03-12 18:00 G 34770829.13 34770829.25 34770829.38 0.0513 0.0151

Mars 90487-09-05 08:38 G 34771005.74 34771005.86 34771005.97 0.1590 0.0489

Moon 90488-04-22 12:14 G 34771235.86 34771236.01 34771236.16 0.2698 0.0704

Earth 90488-04-22 13:26 G 34771235.91 34771236.06 34771236.20 0.2704 0.0823 *

Mars 90490-06-18 02:53 G 34772022.46 34772022.62 34772022.79 0.1948 0.0274

Saturn 90492-11-14 00:29 G 34772902.47 34772902.52 34772902.59 0.0296 0.0278

Saturn 90493-02-11 02:24 G 34772991.42 34772991.60 34772991.78 0.0297 0.0057

Jupiter 90493-05-08 05:31 G 34773077.55 34773077.73 34773077.92 0.0513 0.0085

Saturn 90493-05-11 03:36 G 34773080.51 34773080.65 34773080.81 0.0298 0.0163

Mars 90495-02-20 19:12 G 34773731.22 34773731.30 34773731.37 0.1587 0.1222

Venus 90495-04-09 17:17 G 34773779.09 34773779.22 34773779.36 0.3752 0.2027

Mars 90497-01-25 20:10 G 34774436.22 34774436.34 34774436.46 0.1589 0.0142

Earth 90497-10-18 22:19 G 34774702.32 34774702.43 34774702.54 0.2630 0.0582

Moon 90497-10-18 23:02 G 34774702.34 34774702.46 34774702.57 0.2631 0.0432 *

Jupiter 90498-12-29 22:05 G 34775139.29 34775139.42 34775139.54 0.0513 0.0036

Mars 90498-12-31 22:05 G 34775141.40 34775141.42 34775141.44 0.1594 0.1567

Mars 90499-11-07 18:29 G 34775452.17 34775452.27 34775452.37 0.1949 0.1570

Uranus 90500-05-02 16:34 G 34775628.11 34775628.19 34775628.29 0.0135 0.0118

Uranus 90500-07-29 23:46 G 34775716.36 34775716.49 34775716.64 0.0135 0.0091

Uranus 90500-10-26 06:43 G 34775804.63 34775804.78 34775804.96 0.0135 0.0065

Uranus 90501-01-22 13:55 G 34775892.91 34775893.08 34775893.27 0.0135 0.0038

Uranus 90501-04-20 21:07 G 34775981.19 34775981.38 34775981.57 0.0135 0.0012

Uranus 90501-07-18 04:19 G 34776069.49 34776069.68 34776069.86 0.0135 0.0015

Uranus 90501-10-14 11:02 G 34776157.79 34776157.96 34776158.15 0.0135 0.0042

Uranus 90502-01-10 18:00 G 34776246.10 34776246.25 34776246.42 0.0135 0.0068

Uranus 90502-04-09 00:43 G 34776334.41 34776334.53 34776334.68 0.0135 0.0094

Uranus 90502-07-06 07:41 G 34776422.75 34776422.82 34776422.92 0.0135 0.0120

Venus 90503-07-27 17:02 G 34776809.18 34776809.21 34776809.24 0.3623 0.3447

Mars 90504-07-14 06:58 G 34777161.77 34777161.79 34777161.81 0.1587 0.1548

Jupiter 90505-02-25 03:07 G 34777387.45 34777387.63 34777387.80 0.0512 0.0151

Mars 90506-06-19 07:55 G 34777866.71 34777866.83 34777866.94 0.1588 0.0200

Saturn 90506-06-19 10:05 G 34777866.83 34777866.92 34777867.02 0.0266 0.0190 *

Saturn 90506-09-15 20:10 G 34777955.21 34777955.34 34777955.47 0.0265 0.0080

Saturn 90506-12-13 06:14 G 34778043.62 34778043.76 34778043.89 0.0265 0.0029

Saturn 90507-03-11 16:05 G 34778132.06 34778132.17 34778132.29 0.0264 0.0138

Saturn 90507-06-08 02:10 G 34778220.55 34778220.59 34778220.64 0.0263 0.0247

Mars 90508-05-24 09:22 G 34778571.82 34778571.89 34778571.97 0.1592 0.1213

Venus 90509-02-09 07:55 G 34778832.74 34778832.83 34778832.92 0.3622 0.1412

Jupiter 90510-10-19 02:24 G 34779449.49 34779449.60 34779449.72 0.0514 0.0200

Earth 90510-10-22 16:05 G 34779453.06 34779453.17 34779453.28 0.2629 0.0803

Moon 90510-10-22 16:34 G 34779453.09 34779453.19 34779453.30 0.2624 0.0843 *

Jupiter 90511-01-16 07:12 G 34779538.76 34779538.80 34779538.85 0.0512 0.0478

Venus 90514-08-25 22:48 G 34780856.35 34780856.45 34780856.55 0.3621 0.0642

Mars 90515-11-09 19:26 G 34781297.20 34781297.31 34781297.42 0.1587 0.0533

Jupiter 90516-12-13 23:31 G 34781697.37 34781697.48 34781697.59 0.0512 0.0401

Mars 90517-10-14 21:07 G 34782002.28 34782002.38 34782002.47 0.1591 0.0866

Venus 90520-03-10 13:41 G 34782880.01 34782880.07 34782880.14 0.3621 0.2705

Mars 90520-07-28 11:31 G 34783019.85 34783019.98 34783020.12 0.1946 0.1067

Moon 90521-04-21 13:41 G 34783286.94 34783287.07 34783287.20 0.2696 0.1464

Earth 90521-04-21 14:10 G 34783286.96 34783287.09 34783287.21 0.2703 0.1509 *

Saturn 90522-07-01 23:02 G 34783723.30 34783723.46 34783723.63 0.0297 0.0133

Jupiter 90522-08-07 07:12 G 34783759.71 34783759.80 34783759.89 0.0515 0.0364

Saturn 90522-09-29 00:29 G 34783812.35 34783812.52 34783812.70 0.0298 0.0088

Jupiter 90522-11-04 11:46 G 34783848.89 34783848.99 34783849.10 0.0512 0.0314

Pluto 90523-07-30 05:46 G 34784116.69 34784116.74 34784116.79 0.0083 0.0076

Moon 90523-10-25 10:19 G 34784203.87 34784203.93 34784203.99 0.2622 0.2200

Earth 90523-10-25 10:19 G 34784203.87 34784203.93 34784203.99 0.2628 0.2202 *

Pluto 90523-10-26 06:58 G 34784204.69 34784204.79 34784204.90 0.0083 0.0056

Pluto 90524-01-22 08:24 G 34784292.72 34784292.85 34784292.98 0.0083 0.0036

Pluto 90524-04-19 09:36 G 34784380.77 34784380.90 34784381.05 0.0083 0.0016

Pluto 90524-07-16 11:02 G 34784468.82 34784468.96 34784469.10 0.0082 0.0005

Pluto 90524-10-12 12:29 G 34784556.88 34784557.02 34784557.15 0.0082 0.0025

Pluto 90525-01-08 13:26 G 34784644.96 34784645.06 34784645.19 0.0082 0.0045

Mars 90525-04-01 07:26 G 34784727.71 34784727.81 34784727.90 0.1587 0.0862

Pluto 90525-04-06 15:07 G 34784733.05 34784733.13 34784733.22 0.0082 0.0065

Mars 90527-03-07 08:38 G 34785432.74 34785432.86 34785432.97 0.1590 0.0521

Jupiter 90528-12-31 07:41 G 34786097.69 34786097.82 34786097.96 0.0513 0.0350

Mars 90529-12-18 03:36 G 34786449.49 34786449.65 34786449.82 0.1948 0.0200

Earth 90530-10-18 09:07 G 34786753.80 34786753.88 34786753.97 0.2631 0.1663

Moon 90530-10-18 09:50 G 34786753.82 34786753.91 34786754.00 0.2634 0.1517 *

Moon 90534-04-24 18:43 G 34788038.15 34788038.28 34788038.42 0.2699 0.1162

Earth 90534-04-24 19:55 G 34788038.20 34788038.33 34788038.46 0.2704 0.1364 *

Mars 90534-08-22 19:12 G 34788158.22 34788158.30 34788158.37 0.1587 0.1192

Jupiter 90534-08-23 16:48 G 34788159.08 34788159.20 34788159.32 0.0513 0.0156

Saturn 90535-11-06 12:29 G 34788598.95 34788599.02 34788599.09 0.0266 0.0226

Saturn 90536-02-02 22:34 G 34788687.32 34788687.44 34788687.55 0.0265 0.0118

Saturn 90536-05-01 08:24 G 34788775.72 34788775.85 34788775.98 0.0264 0.0009

Mars 90536-07-27 20:10 G 34788863.22 34788863.34 34788863.46 0.1589 0.0178

Saturn 90536-07-28 18:29 G 34788864.15 34788864.27 34788864.39 0.0264 0.0101

Saturn 90536-10-25 04:34 G 34788952.61 34788952.69 34788952.77 0.0263 0.0210

Mars 90539-05-09 19:41 G 34789879.21 34789879.32 34789879.42 0.1949 0.1480

Neptune 90539-05-11 00:14 G 34789880.44 34789880.51 34789880.61 0.0090 0.0080

Neptune 90539-08-07 03:50 G 34789968.56 34789968.66 34789968.80 0.0090 0.0069

Neptune 90539-11-03 07:41 G 34790056.68 34790056.82 34790056.97 0.0090 0.0058

Neptune 90540-01-30 11:17 G 34790144.81 34790144.97 34790145.13 0.0090 0.0047

Neptune 90540-04-27 14:53 G 34790232.94 34790233.12 34790233.29 0.0090 0.0036

Neptune 90540-07-24 18:14 G 34790321.08 34790321.26 34790321.45 0.0090 0.0025

Jupiter 90540-10-19 04:19 G 34790407.50 34790407.68 34790407.86 0.0513 0.0098

Neptune 90540-10-20 21:50 G 34790409.22 34790409.41 34790409.60 0.0090 0.0014

Neptune 90541-01-17 01:26 G 34790497.37 34790497.56 34790497.75 0.0090 0.0004

Neptune 90541-04-15 04:48 G 34790585.51 34790585.70 34790585.89 0.0090 0.0007

Neptune 90541-07-12 08:10 G 34790673.66 34790673.84 34790674.03 0.0090 0.0018

Neptune 90541-10-08 11:31 G 34790761.81 34790761.98 34790762.17 0.0090 0.0029

Neptune 90542-01-04 14:53 G 34790849.97 34790850.12 34790850.30 0.0090 0.0040

Neptune 90542-04-02 18:29 G 34790938.12 34790938.27 34790938.43 0.0090 0.0050

Neptune 90542-06-29 21:50 G 34791026.28 34791026.41 34791026.56 0.0090 0.0061

Uranus 90542-08-03 19:26 G 34791061.27 34791061.31 34791061.37 0.0143 0.0132

Neptune 90542-09-26 01:26 G 34791114.45 34791114.56 34791114.68 0.0090 0.0071

Uranus 90542-10-30 23:02 G 34791149.38 34791149.46 34791149.55 0.0143 0.0111

Neptune 90542-12-23 04:34 G 34791202.63 34791202.69 34791202.78 0.0090 0.0082

Uranus 90543-01-27 02:38 G 34791237.51 34791237.61 34791237.72 0.0143 0.0089

Uranus 90543-04-25 06:14 G 34791325.65 34791325.76 34791325.88 0.0143 0.0067

Uranus 90543-07-22 09:50 G 34791413.79 34791413.91 34791414.04 0.0143 0.0045

Uranus 90543-10-18 13:41 G 34791501.94 34791502.07 34791502.20 0.0143 0.0023

Earth 90543-10-21 03:07 G 34791504.52 34791504.63 34791504.74 0.2630 0.0304

Moon 90543-10-21 03:50 G 34791504.54 34791504.66 34791504.77 0.2630 0.0267 *

Mars 90544-01-13 06:58 G 34791588.76 34791588.79 34791588.82 0.1587 0.1521

Uranus 90544-01-14 17:17 G 34791590.09 34791590.22 34791590.35 0.0143 0.0001

Uranus 90544-04-11 20:53 G 34791678.24 34791678.37 34791678.51 0.0143 0.0022

Uranus 90544-07-09 00:43 G 34791766.40 34791766.53 34791766.65 0.0143 0.0044

Uranus 90544-10-05 04:19 G 34791854.56 34791854.68 34791854.80 0.0143 0.0067

Uranus 90545-01-01 07:55 G 34791942.73 34791942.83 34791942.94 0.0143 0.0090

Uranus 90545-03-30 11:46 G 34792030.91 34792030.99 34792031.07 0.0143 0.0112

Uranus 90545-06-26 15:22 G 34792119.11 34792119.14 34792119.19 0.0143 0.0135

Mars 90545-12-18 07:41 G 34792293.71 34792293.82 34792293.94 0.1588 0.0173

Jupiter 90546-06-11 21:36 G 34792469.27 34792469.40 34792469.53 0.0513 0.0005

Mars 90547-11-23 09:36 G 34792998.83 34792998.90 34792998.97 0.1592 0.1246

Saturn 90551-11-18 17:46 G 34794455.12 34794455.24 34794455.36 0.0296 0.0223

Saturn 90552-02-15 19:26 G 34794544.13 34794544.31 34794544.49 0.0297 0.0002

Saturn 90552-05-14 20:53 G 34794633.25 34794633.37 34794633.49 0.0298 0.0218

Jupiter 90552-08-07 01:41 G 34794717.40 34794717.57 34794717.75 0.0512 0.0137

Mars 90555-05-10 19:26 G 34795724.20 34795724.31 34795724.42 0.1587 0.0503

Earth 90556-10-22 20:53 G 34796255.27 34796255.37 34796255.48 0.2629 0.1085

Moon 90556-10-22 21:36 G 34796255.29 34796255.40 34796255.50 0.2624 0.1197 *

Mars 90557-04-14 20:53 G 34796429.27 34796429.37 34796429.47 0.1591 0.0893

Jupiter 90558-03-31 01:41 G 34796779.45 34796779.57 34796779.69 0.0514 0.0185

Jupiter 90558-06-28 06:14 G 34796868.73 34796868.76 34796868.80 0.0511 0.0492

Mars 90560-01-27 12:00 G 34797446.86 34797447.00 34797447.13 0.1947 0.1119

Venus 90560-03-02 14:10 G 34797482.03 34797482.09 34797482.16 0.3622 0.2701

Jupiter 90564-05-25 23:02 G 34799027.34 34799027.46 34799027.59 0.0512 0.0372

Mars 90564-09-30 07:12 G 34799154.71 34799154.80 34799154.90 0.1587 0.0835

Saturn 90565-03-25 14:53 G 34799331.11 34799331.12 34799331.15 0.0267 0.0263

Saturn 90565-06-22 00:58 G 34799419.43 34799419.54 34799419.65 0.0266 0.0153

Venus 90565-09-16 05:17 G 34799505.62 34799505.72 34799505.82 0.3622 0.0674

Saturn 90565-09-18 11:02 G 34799507.82 34799507.96 34799508.09 0.0265 0.0044

Saturn 90565-12-15 20:53 G 34799596.24 34799596.37 34799596.50 0.0264 0.0066

Saturn 90566-03-14 06:58 G 34799684.69 34799684.79 34799684.89 0.0264 0.0175

Mars 90566-09-05 08:24 G 34799859.74 34799859.85 34799859.97 0.1590 0.0553

Moon 90567-04-22 19:55 G 34800089.19 34800089.33 34800089.47 0.2696 0.1157

Earth 90567-04-22 20:38 G 34800089.22 34800089.36 34800089.50 0.2703 0.0970 *

Mars 90569-06-18 04:48 G 34800876.53 34800876.70 34800876.86 0.1949 0.0114

Moon 90569-10-25 15:07 G 34801006.09 34801006.13 34801006.16 0.2622 0.2440

Earth 90569-10-25 15:07 G 34801006.10 34801006.13 34801006.16 0.2628 0.2482 *

Jupiter 90570-01-17 06:14 G 34801089.67 34801089.76 34801089.85 0.0514 0.0351

Jupiter 90570-04-16 10:48 G 34801178.85 34801178.95 34801179.05 0.0512 0.0325

Venus 90571-04-01 20:10 G 34801529.24 34801529.34 34801529.43 0.3621 0.1402

Mars 90574-02-20 18:58 G 34802585.22 34802585.29 34802585.37 0.1587 0.1165

Mars 90576-01-26 20:10 G 34803290.22 34803290.34 34803290.46 0.1589 0.0206

Jupiter 90576-06-12 07:26 G 34803427.70 34803427.81 34803427.93 0.0513 0.0383

Venus 90576-10-15 11:02 G 34803552.94 34803552.96 34803552.99 0.3620 0.3468

Earth 90576-10-18 14:10 G 34803555.99 34803556.09 34803556.18 0.2630 0.1388

Moon 90576-10-18 14:38 G 34803556.02 34803556.11 34803556.21 0.2634 0.1361 *

Mars 90578-11-07 20:24 G 34804306.24 34804306.35 34804306.47 0.1949 0.1402

Moon 90580-04-25 00:58 G 34804840.43 34804840.54 34804840.65 0.2700 0.1798

Earth 90580-04-25 02:24 G 34804840.49 34804840.60 34804840.70 0.2704 0.1889 *

Saturn 90581-07-04 15:50 G 34805275.98 34805276.16 34805276.34 0.0297 0.0081

Saturn 90581-10-01 17:17 G 34805365.06 34805365.22 34805365.38 0.0298 0.0140

Jupiter 90582-02-02 15:36 G 34805489.02 34805489.15 34805489.27 0.0513 0.0162

Mars 90583-07-14 06:58 G 34806015.75 34806015.79 34806015.83 0.1586 0.1487

Uranus 90584-05-22 23:17 G 34806329.38 34806329.47 34806329.59 0.0135 0.0112

Uranus 90584-08-19 06:29 G 34806417.63 34806417.77 34806417.93 0.0135 0.0085

Uranus 90584-11-15 13:41 G 34806505.90 34806506.07 34806506.25 0.0135 0.0059

Uranus 90585-02-11 20:53 G 34806594.19 34806594.37 34806594.56 0.0135 0.0032

Uranus 90585-05-11 04:05 G 34806682.48 34806682.67 34806682.86 0.0135 0.0006

Mars 90585-06-18 07:41 G 34806720.71 34806720.82 34806720.94 0.1588 0.0144

Uranus 90585-08-07 11:02 G 34806770.77 34806770.96 34806771.15 0.0135 0.0021

Uranus 90585-11-03 17:46 G 34806859.07 34806859.24 34806859.43 0.0135 0.0048

Uranus 90586-01-31 00:43 G 34806947.38 34806947.53 34806947.70 0.0135 0.0074

Uranus 90586-04-29 07:41 G 34807035.70 34807035.82 34807035.95 0.0135 0.0100

Uranus 90586-07-26 14:24 G 34807124.05 34807124.10 34807124.18 0.0135 0.0126

Mars 90587-05-24 09:36 G 34807425.83 34807425.90 34807425.97 0.1592 0.1276

Jupiter 90588-03-31 04:19 G 34807737.50 34807737.68 34807737.85 0.0513 0.0135

Earth 90589-10-21 07:55 G 34808306.72 34808306.83 34808306.94 0.2630 0.0031

Moon 90589-10-21 08:38 G 34808306.74 34808306.86 34808306.97 0.2628 0.0145 *

Jupiter 90593-11-21 20:24 G 34809799.22 34809799.35 34809799.48 0.0514 0.0003

Mars 90594-11-08 19:26 G 34810151.20 34810151.31 34810151.43 0.1587 0.0471

Saturn 90594-11-09 02:53 G 34810151.54 34810151.62 34810151.72 0.0266 0.0192

Saturn 90595-02-05 12:58 G 34810239.92 34810240.04 34810240.17 0.0265 0.0082

Saturn 90595-05-04 23:02 G 34810328.33 34810328.46 34810328.59 0.0264 0.0027

Saturn 90595-08-01 08:53 G 34810416.76 34810416.87 34810416.99 0.0264 0.0136

Saturn 90595-10-28 18:58 G 34810505.25 34810505.29 34810505.34 0.0263 0.0245

Mars 90596-10-13 20:53 G 34810856.28 34810856.37 34810856.47 0.1591 0.0929

Mars 90599-07-28 13:12 G 34811873.92 34811874.05 34811874.17 0.1947 0.1209

Jupiter 90600-01-18 00:43 G 34812047.35 34812047.53 34812047.71 0.0512 0.0117

Earth 90602-10-25 01:55 G 34813057.48 34813057.58 34813057.67 0.2629 0.1361

Moon 90602-10-25 02:24 G 34813057.50 34813057.60 34813057.69 0.2624 0.1369 *

Venus 90602-12-07 10:34 G 34813100.79 34813100.94 34813101.10 0.3751 0.1232

Mars 90604-04-01 07:12 G 34813581.70 34813581.80 34813581.90 0.1587 0.0806

Jupiter 90605-09-11 01:12 G 34814109.43 34814109.55 34814109.68 0.0514 0.0157

Mars 90606-03-07 08:24 G 34814286.74 34814286.85 34814286.96 0.1590 0.0582

Mars 90608-12-18 05:17 G 34815303.56 34815303.72 34815303.89 0.1948 0.0052

Earth 90609-10-18 01:12 G 34815607.51 34815607.55 34815607.58 0.2631 0.2464

Moon 90609-10-18 01:26 G 34815607.52 34815607.56 34815607.60 0.2637 0.2428 *

Saturn 90610-11-22 10:05 G 34816007.77 34816007.92 34816008.07 0.0296 0.0173

Saturn 90611-02-19 11:46 G 34816096.81 34816096.99 34816097.17 0.0297 0.0048

Saturn 90611-05-19 12:58 G 34816185.97 34816186.04 34816186.13 0.0298 0.0268

Jupiter 90611-11-06 22:05 G 34816357.29 34816357.42 34816357.55 0.0512 0.0353

Moon 90613-04-24 02:24 G 34816891.45 34816891.60 34816891.75 0.2696 0.0415

Earth 90613-04-24 03:07 G 34816891.48 34816891.63 34816891.78 0.2703 0.0438 *

Mars 90613-08-22 18:58 G 34817012.21 34817012.29 34817012.37 0.1587 0.1133

Mars 90615-07-28 20:10 G 34817717.22 34817717.34 34817717.45 0.1589 0.0237

Venus 90616-10-08 11:31 G 34818154.90 34818154.98 34818155.07 0.3622 0.1945

Jupiter 90617-06-30 05:17 G 34818419.63 34818419.72 34818419.82 0.0514 0.0334

Jupiter 90617-09-27 10:05 G 34818508.82 34818508.92 34818509.01 0.0512 0.0342

Mars 90618-05-09 21:07 G 34818733.26 34818733.38 34818733.50 0.1950 0.1334

Neptune 90620-05-21 13:12 G 34819476.03 34819476.05 34819476.10 0.0088 0.0084

Neptune 90620-08-17 14:38 G 34819564.05 34819564.11 34819564.18 0.0088 0.0077

Neptune 90620-11-13 15:50 G 34819652.09 34819652.16 34819652.25 0.0088 0.0070

Neptune 90621-02-09 17:17 G 34819740.13 34819740.22 34819740.32 0.0088 0.0063

Neptune 90621-05-08 18:29 G 34819828.18 34819828.27 34819828.38 0.0088 0.0056

Neptune 90621-08-04 19:55 G 34819916.22 34819916.33 34819916.45 0.0088 0.0049

Neptune 90621-10-31 21:07 G 34820004.27 34820004.38 34820004.51 0.0088 0.0042

Neptune 90622-01-27 22:34 G 34820092.32 34820092.44 34820092.57 0.0088 0.0035

Venus 90622-04-24 02:24 G 34820178.50 34820178.60 34820178.70 0.3621 0.0118

Neptune 90622-04-26 00:00 G 34820180.37 34820180.50 34820180.63 0.0088 0.0027

Neptune 90622-07-23 01:12 G 34820268.43 34820268.55 34820268.69 0.0088 0.0021

Neptune 90622-10-19 02:38 G 34820356.48 34820356.61 34820356.75 0.0088 0.0013

Earth 90622-10-20 18:58 G 34820358.19 34820358.29 34820358.39 0.2630 0.1120

Moon 90622-10-20 19:26 G 34820358.21 34820358.31 34820358.42 0.2634 0.0987 *

Mars 90623-01-13 06:58 G 34820442.75 34820442.79 34820442.83 0.1587 0.1461

Neptune 90623-01-15 04:05 G 34820444.53 34820444.67 34820444.80 0.0088 0.0006

Neptune 90623-04-13 05:17 G 34820532.59 34820532.72 34820532.86 0.0088 0.0003

Neptune 90623-07-10 06:43 G 34820620.65 34820620.78 34820620.91 0.0088 0.0009

Neptune 90623-10-06 07:55 G 34820708.70 34820708.83 34820708.97 0.0088 0.0016

Jupiter 90623-11-24 07:12 G 34820757.70 34820757.80 34820757.91 0.0514 0.0416

Neptune 90624-01-02 09:22 G 34820796.76 34820796.89 34820797.02 0.0088 0.0023

Saturn 90624-03-29 05:17 G 34820883.66 34820883.72 34820883.79 0.0267 0.0230

Neptune 90624-03-30 10:48 G 34820884.82 34820884.95 34820885.08 0.0088 0.0030

Saturn 90624-06-25 15:22 G 34820972.02 34820972.14 34820972.26 0.0266 0.0120

Neptune 90624-06-26 12:00 G 34820972.88 34820973.00 34820973.13 0.0088 0.0037

Saturn 90624-09-22 01:12 G 34821060.42 34821060.55 34821060.69 0.0265 0.0012

Neptune 90624-09-22 13:12 G 34821060.95 34821061.05 34821061.18 0.0088 0.0045

Mars 90624-12-18 07:41 G 34821147.70 34821147.82 34821147.94 0.1588 0.0109

Saturn 90624-12-19 11:17 G 34821148.85 34821148.97 34821149.09 0.0264 0.0099

Neptune 90624-12-19 14:38 G 34821149.01 34821149.11 34821149.23 0.0088 0.0052 *

Neptune 90625-03-17 16:19 G 34821237.08 34821237.18 34821237.28 0.0088 0.0059

Saturn 90625-03-17 21:22 G 34821237.31 34821237.39 34821237.47 0.0264 0.0208

Neptune 90625-06-13 17:17 G 34821325.15 34821325.22 34821325.32 0.0088 0.0067

Neptune 90625-09-09 18:43 G 34821413.22 34821413.28 34821413.36 0.0088 0.0074

Neptune 90625-12-06 20:10 G 34821501.30 34821501.34 34821501.40 0.0088 0.0081

Moon 90626-04-27 07:12 G 34821642.71 34821642.80 34821642.90 0.2702 0.2125

Earth 90626-04-27 08:38 G 34821642.80 34821642.86 34821642.93 0.2704 0.2421 *

Uranus 90626-08-25 02:53 G 34821762.56 34821762.62 34821762.68 0.0143 0.0126

Uranus 90626-11-21 06:14 G 34821850.68 34821850.76 34821850.86 0.0143 0.0105

Mars 90626-11-23 09:36 G 34821852.83 34821852.90 34821852.96 0.1592 0.1307

Uranus 90627-02-17 10:05 G 34821938.81 34821938.92 34821939.03 0.0143 0.0083

Uranus 90627-05-16 13:41 G 34822026.95 34822027.07 34822027.19 0.0143 0.0061

Uranus 90627-08-12 17:17 G 34822115.10 34822115.22 34822115.35 0.0143 0.0039

Venus 90627-11-07 17:17 G 34822202.14 34822202.22 34822202.30 0.3621 0.2158

Uranus 90627-11-08 20:53 G 34822203.24 34822203.37 34822203.51 0.0143 0.0018

Uranus 90628-02-05 00:43 G 34822291.39 34822291.53 34822291.66 0.0143 0.0006

Uranus 90628-05-03 04:19 G 34822379.55 34822379.68 34822379.81 0.0143 0.0028

Uranus 90628-07-30 07:55 G 34822467.71 34822467.83 34822467.96 0.0143 0.0051

Uranus 90628-10-26 11:46 G 34822555.88 34822555.99 34822556.11 0.0143 0.0073

Uranus 90629-01-22 15:22 G 34822644.05 34822644.14 34822644.24 0.0143 0.0096

Jupiter 90629-04-18 09:50 G 34822729.89 34822729.91 34822729.94 0.0515 0.0500

Uranus 90629-04-20 19:12 G 34822732.23 34822732.30 34822732.38 0.0143 0.0119

Jupiter 90629-07-16 14:24 G 34822818.99 34822819.10 34822819.23 0.0512 0.0177

Uranus 90629-07-17 22:48 G 34822820.44 34822820.45 34822820.48 0.0143 0.0142

Mars 90634-05-10 19:26 G 34824578.20 34824578.31 34824578.42 0.1587 0.0441

Jupiter 90635-09-12 04:05 G 34825067.50 34825067.67 34825067.84 0.0513 0.0170

Earth 90635-10-23 12:43 G 34825108.92 34825109.03 34825109.14 0.2630 0.0255

Moon 90635-10-23 13:26 G 34825108.95 34825109.06 34825109.17 0.2626 0.0287 *

Mars 90636-04-14 20:53 G 34825283.28 34825283.37 34825283.47 0.1591 0.0959

Mars 90639-01-27 13:55 G 34826300.96 34826301.08 34826301.20 0.1946 0.1286

Saturn 90640-04-10 06:00 G 34826739.66 34826739.75 34826739.85 0.0296 0.0255

Saturn 90640-07-08 07:55 G 34826828.64 34826828.83 34826829.01 0.0297 0.0035

Saturn 90640-10-05 09:07 G 34826917.75 34826917.88 34826918.03 0.0298 0.0187

Jupiter 90641-05-04 19:12 G 34827129.17 34827129.30 34827129.43 0.0513 0.0012

Mars 90643-10-01 07:12 G 34828008.70 34828008.80 34828008.90 0.1587 0.0773

Mars 90645-09-05 08:24 G 34828713.74 34828713.85 34828713.96 0.1590 0.0613

Jupiter 90647-07-01 00:43 G 34829377.35 34829377.53 34829377.71 0.0512 0.0078

Mars 90648-06-18 06:14 G 34829730.60 34829730.76 34829730.93 0.1948 0.0036

Earth 90648-10-25 06:43 G 34829859.69 34829859.78 34829859.87 0.2629 0.1641

Moon 90648-10-25 06:58 G 34829859.71 34829859.79 34829859.88 0.2623 0.1738 *

Mars 90653-02-20 18:58 G 34831439.21 34831439.29 34831439.38 0.1586 0.1104

Jupiter 90653-02-21 00:00 G 34831439.38 34831439.50 34831439.63 0.0514 0.0149 *

Saturn 90653-11-12 17:17 G 34831704.12 34831704.22 34831704.33 0.0266 0.0159

Saturn 90654-02-09 03:22 G 34831792.51 34831792.64 34831792.77 0.0265 0.0049

Saturn 90654-05-08 13:26 G 34831880.93 34831881.06 34831881.19 0.0264 0.0061

Saturn 90654-08-04 23:31 G 34831969.38 34831969.48 34831969.58 0.0263 0.0170

Mars 90655-01-26 20:10 G 34832144.22 34832144.34 34832144.46 0.1589 0.0269

Earth 90655-10-19 06:00 G 34832409.69 34832409.75 34832409.81 0.2631 0.2194

Moon 90655-10-19 06:29 G 34832409.70 34832409.77 34832409.83 0.2637 0.2159 *

Mars 90657-11-07 22:05 G 34833160.30 34833160.42 34833160.55 0.1949 0.1250

Jupiter 90659-04-18 21:07 G 34833687.24 34833687.38 34833687.52 0.0512 0.0330

Moon 90659-04-25 08:38 G 34833693.71 34833693.86 34833694.02 0.2697 0.0114

Earth 90659-04-25 09:36 G 34833693.75 34833693.90 34833694.05 0.2703 0.0126 *

Venus 90659-07-14 13:41 G 34833773.92 34833774.07 34833774.21 0.3752 0.1676

Mars 90662-07-14 06:58 G 34834869.74 34834869.79 34834869.83 0.1586 0.1433

Mars 90664-06-18 07:41 G 34835574.70 34835574.82 34835574.94 0.1588 0.0076

Jupiter 90664-12-10 05:02 G 34835749.61 34835749.71 34835749.81 0.0515 0.0306

Jupiter 90665-03-09 09:36 G 34835838.82 34835838.90 34835838.99 0.0512 0.0371

Mars 90666-05-24 09:36 G 34836279.84 34836279.90 34836279.96 0.1592 0.1340

Venus 90667-10-30 18:00 G 34836804.20 34836804.25 34836804.29 0.3623 0.3227

Uranus 90668-03-16 22:48 G 34836942.43 34836942.45 34836942.49 0.0135 0.0133

Uranus 90668-06-13 06:14 G 34837030.64 34837030.76 34837030.88 0.0135 0.0106

Uranus 90668-09-09 13:26 G 34837118.90 34837119.06 34837119.21 0.0135 0.0079

Earth 90668-10-20 23:46 G 34837160.38 34837160.49 34837160.59 0.2630 0.0845

Moon 90668-10-21 00:29 G 34837160.41 34837160.52 34837160.62 0.2632 0.0774 *

Uranus 90668-12-06 20:24 G 34837207.18 34837207.35 34837207.53 0.0135 0.0053

Uranus 90669-03-05 03:36 G 34837295.46 34837295.65 34837295.84 0.0135 0.0026

Uranus 90669-06-01 10:34 G 34837383.75 34837383.94 34837384.13 0.0135 0.0003

Uranus 90669-08-28 17:46 G 34837472.05 34837472.24 34837472.42 0.0135 0.0027

Uranus 90669-11-25 00:29 G 34837560.35 34837560.52 34837560.70 0.0135 0.0053

Saturn 90669-11-25 02:10 G 34837560.43 34837560.59 34837560.76 0.0296 0.0127 *

Uranus 90670-02-21 07:26 G 34837648.67 34837648.81 34837648.97 0.0135 0.0079

Saturn 90670-02-22 03:50 G 34837649.49 34837649.66 34837649.83 0.0297 0.0094

Uranus 90670-05-20 14:10 G 34837736.99 34837737.09 34837737.22 0.0135 0.0106

Uranus 90670-08-16 21:22 G 34837825.35 34837825.39 34837825.43 0.0135 0.0131

Jupiter 90671-05-06 06:14 G 34838087.67 34838087.76 34838087.86 0.0514 0.0436

Venus 90673-05-15 08:53 G 34838827.77 34838827.87 34838827.96 0.3622 0.1198

Mars 90673-11-08 19:26 G 34839005.20 34839005.31 34839005.42 0.1587 0.0411

Mars 90675-10-14 20:53 G 34839710.28 34839710.37 34839710.46 0.1591 0.0987

Jupiter 90676-09-28 09:07 G 34840059.84 34840059.88 34840059.93 0.0515 0.0481

Jupiter 90676-12-26 13:41 G 34840148.96 34840149.07 34840149.19 0.0512 0.0195

Pluto 90677-08-16 14:38 G 34840382.03 34840382.11 34840382.22 0.0061 0.0052

Pluto 90677-11-12 16:05 G 34840470.04 34840470.17 34840470.30 0.0061 0.0042

Pluto 90678-02-08 16:48 G 34840558.06 34840558.20 34840558.37 0.0061 0.0032

Pluto 90678-05-07 18:14 G 34840646.09 34840646.26 34840646.43 0.0062 0.0021

Mars 90678-07-28 14:24 G 34840727.99 34840728.10 34840728.22 0.1947 0.1349

Pluto 90678-08-03 19:12 G 34840734.13 34840734.30 34840734.48 0.0062 0.0011

Pluto 90678-10-30 20:24 G 34840822.17 34840822.35 34840822.53 0.0062 0.0001

Venus 90678-11-28 23:46 G 34840851.39 34840851.49 34840851.59 0.3621 0.0857

Pluto 90679-01-26 21:22 G 34840910.22 34840910.39 34840910.57 0.0062 0.0011

Pluto 90679-04-24 22:19 G 34840998.28 34840998.43 34840998.61 0.0062 0.0022

Pluto 90679-07-21 23:31 G 34841086.34 34841086.48 34841086.64 0.0062 0.0032

Pluto 90679-10-18 00:29 G 34841174.41 34841174.52 34841174.66 0.0062 0.0043

Pluto 90680-01-14 01:41 G 34841262.49 34841262.57 34841262.67 0.0062 0.0053

Earth 90681-10-23 17:31 G 34841911.12 34841911.23 34841911.34 0.2629 0.0533

Moon 90681-10-23 18:14 G 34841911.15 34841911.26 34841911.37 0.2626 0.0677 *

Jupiter 90683-02-22 03:50 G 34842397.49 34842397.66 34842397.83 0.0513 0.0202

Mars 90683-04-01 07:12 G 34842435.70 34842435.80 34842435.90 0.1587 0.0743

Saturn 90683-04-01 19:41 G 34842436.23 34842436.32 34842436.41 0.0267 0.0198

Saturn 90683-06-29 05:46 G 34842524.61 34842524.74 34842524.86 0.0266 0.0088

Saturn 90683-09-25 15:36 G 34842613.02 34842613.15 34842613.28 0.0265 0.0023

Saturn 90683-12-23 01:41 G 34842701.46 34842701.57 34842701.69 0.0264 0.0132

Saturn 90684-03-20 11:31 G 34842789.94 34842789.98 34842790.04 0.0264 0.0242

Venus 90684-06-13 14:38 G 34842875.05 34842875.11 34842875.17 0.3621 0.2909

Mars 90685-03-06 08:24 G 34843140.75 34843140.85 34843140.96 0.1590 0.0643

Mars 90687-12-18 07:12 G 34844157.64 34844157.80 34844157.97 0.1949 0.0115

Jupiter 90688-10-14 18:29 G 34844459.14 34844459.27 34844459.39 0.0513 0.0031

Moon 90692-04-22 09:50 G 34845744.83 34845744.91 34845744.99 0.2695 0.2290

Earth 90692-04-22 10:05 G 34845744.84 34845744.92 34845745.00 0.2702 0.2271 *

Mars 90692-08-21 18:58 G 34845866.21 34845866.29 34845866.38 0.1586 0.1074

Mars 90694-07-27 20:10 G 34846571.22 34846571.34 34846571.45 0.1589 0.0300

Moon 90694-10-26 11:46 G 34846661.91 34846661.99 34846662.07 0.2623 0.1878

Earth 90694-10-26 11:46 G 34846661.91 34846661.99 34846662.06 0.2629 0.1927 *

Jupiter 90694-12-11 00:43 G 34846707.34 34846707.53 34846707.71 0.0513 0.0045

Mars 90697-05-08 23:02 G 34847587.33 34847587.46 34847587.59 0.1949 0.1167

Saturn 90699-04-13 22:19 G 34848292.31 34848292.43 34848292.57 0.0296 0.0207

Saturn 90699-07-12 00:14 G 34848381.32 34848381.51 34848381.69 0.0297 0.0015

Saturn 90699-10-09 01:26 G 34848470.46 34848470.56 34848470.68 0.0298 0.0235

Jupiter 90700-08-03 23:02 G 34848769.34 34848769.46 34848769.58 0.0514 0.0138

Earth 90701-10-20 10:48 G 34849211.87 34849211.95 34849212.02 0.2631 0.1928

Moon 90701-10-20 11:17 G 34849211.89 34849211.97 34849212.05 0.2637 0.1848 *

Mars 90702-01-13 06:58 G 34849296.73 34849296.79 34849296.84 0.1586 0.1400

Neptune 90703-11-10 19:41 G 34849963.28 34849963.32 34849963.40 0.0090 0.0085

Mars 90703-12-19 07:41 G 34850001.70 34850001.82 34850001.94 0.1588 0.0047

Neptune 90704-02-06 23:17 G 34850051.38 34850051.47 34850051.60 0.0090 0.0074

Neptune 90704-05-05 02:53 G 34850139.50 34850139.62 34850139.77 0.0090 0.0063

Neptune 90704-08-01 06:29 G 34850227.63 34850227.77 34850227.94 0.0090 0.0052

Neptune 90704-10-28 10:05 G 34850315.76 34850315.92 34850316.10 0.0090 0.0041

Neptune 90705-01-24 13:41 G 34850403.90 34850404.07 34850404.26 0.0090 0.0030

Neptune 90705-04-22 17:17 G 34850492.04 34850492.22 34850492.41 0.0090 0.0019

Moon 90705-04-26 14:53 G 34850495.97 34850496.12 34850496.27 0.2698 0.0573

Earth 90705-04-26 16:05 G 34850496.02 34850496.17 34850496.32 0.2703 0.0652 *

Neptune 90705-07-19 20:53 G 34850580.18 34850580.37 34850580.56 0.0090 0.0008

Neptune 90705-10-16 00:29 G 34850668.33 34850668.52 34850668.71 0.0090 0.0003

Mars 90705-11-23 09:36 G 34850706.84 34850706.90 34850706.95 0.1592 0.1372

Neptune 90706-01-12 03:50 G 34850756.48 34850756.66 34850756.85 0.0090 0.0013

Neptune 90706-04-10 07:26 G 34850844.63 34850844.81 34850844.99 0.0090 0.0024

Neptune 90706-07-07 10:48 G 34850932.78 34850932.95 34850933.13 0.0090 0.0035

Jupiter 90706-09-29 21:22 G 34851017.24 34851017.39 34851017.54 0.0512 0.0292

Neptune 90706-10-03 13:55 G 34851020.93 34851021.08 34851021.26 0.0090 0.0046

Neptune 90706-12-30 17:46 G 34851109.09 34851109.24 34851109.39 0.0090 0.0056

Neptune 90707-03-28 20:53 G 34851197.26 34851197.37 34851197.51 0.0090 0.0067

Neptune 90707-06-25 00:14 G 34851285.43 34851285.51 34851285.62 0.0090 0.0078

Neptune 90707-09-21 03:50 G 34851373.63 34851373.66 34851373.70 0.0090 0.0088

Uranus 90710-09-15 09:50 G 34852463.85 34852463.91 34852463.98 0.0143 0.0122

Uranus 90710-12-12 13:26 G 34852551.97 34852552.06 34852552.16 0.0143 0.0101

Uranus 90711-03-10 17:02 G 34852640.10 34852640.21 34852640.32 0.0143 0.0079

Uranus 90711-06-06 20:38 G 34852728.24 34852728.36 34852728.49 0.0143 0.0057

Uranus 90711-09-03 00:14 G 34852816.39 34852816.51 34852816.64 0.0143 0.0035

Uranus 90711-11-30 04:05 G 34852904.54 34852904.67 34852904.80 0.0143 0.0012

Uranus 90712-02-26 07:41 G 34852992.69 34852992.82 34852992.95 0.0143 0.0010

Jupiter 90712-05-23 03:50 G 34853079.56 34853079.66 34853079.77 0.0514 0.0298

Uranus 90712-05-24 11:17 G 34853080.84 34853080.97 34853081.10 0.0143 0.0033

Saturn 90712-08-19 21:36 G 34853168.35 34853168.40 34853168.47 0.0267 0.0237

Jupiter 90712-08-20 08:38 G 34853168.77 34853168.86 34853168.94 0.0512 0.0380

Uranus 90712-08-20 15:07 G 34853169.00 34853169.13 34853169.25 0.0143 0.0055

Saturn 90712-11-16 07:41 G 34853256.71 34853256.82 34853256.94 0.0266 0.0126

Uranus 90712-11-16 18:43 G 34853257.17 34853257.28 34853257.40 0.0143 0.0078

Saturn 90713-02-12 17:46 G 34853345.11 34853345.24 34853345.37 0.0265 0.0016

Uranus 90713-02-12 22:34 G 34853345.34 34853345.44 34853345.53 0.0143 0.0100 *

Mars 90713-05-10 19:26 G 34853432.20 34853432.31 34853432.42 0.1587 0.0379

Uranus 90713-05-12 02:10 G 34853433.53 34853433.59 34853433.66 0.0143 0.0123

Saturn 90713-05-12 03:50 G 34853433.53 34853433.66 34853433.78 0.0264 0.0094 *

Saturn 90713-08-08 13:41 G 34853521.99 34853522.07 34853522.16 0.0264 0.0204

Earth 90714-10-23 04:34 G 34853962.58 34853962.69 34853962.80 0.2630 0.0570

Moon 90714-10-23 05:17 G 34853962.61 34853962.72 34853962.83 0.2630 0.0473 *

Mars 90715-04-15 20:53 G 34854137.28 34854137.37 34854137.46 0.1591 0.1022

Mars 90718-01-27 15:22 G 34855155.03 34855155.14 34855155.25 0.1947 0.1429

Jupiter 90718-10-17 05:17 G 34855417.64 34855417.72 34855417.80 0.0514 0.0457

Mars 90722-10-01 07:12 G 34856862.69 34856862.80 34856862.90 0.1586 0.0715

Jupiter 90724-03-11 08:53 G 34857389.81 34857389.87 34857389.92 0.0515 0.0456

Venus 90724-06-06 15:07 G 34857477.06 34857477.13 34857477.20 0.3622 0.2483

Jupiter 90724-06-08 13:26 G 34857478.94 34857479.06 34857479.18 0.0513 0.0220

Mars 90724-09-05 08:24 G 34857567.75 34857567.85 34857567.96 0.1589 0.0675

Mars 90727-06-19 07:55 G 34858584.67 34858584.83 34858584.99 0.1948 0.0186

Earth 90727-10-25 22:34 G 34858713.33 34858713.44 34858713.54 0.2629 0.0811

Moon 90727-10-25 23:02 G 34858713.36 34858713.46 34858713.57 0.2626 0.0854 *

Saturn 90728-11-28 18:43 G 34859113.10 34859113.28 34859113.46 0.0297 0.0077

Saturn 90729-02-25 20:10 G 34859202.18 34859202.34 34859202.50 0.0297 0.0143

Venus 90729-12-21 06:00 G 34859500.65 34859500.75 34859500.85 0.3622 0.0452

Jupiter 90730-08-05 02:53 G 34859727.45 34859727.62 34859727.78 0.0513 0.0222

Mars 90732-02-21 18:58 G 34860293.20 34860293.29 34860293.38 0.1586 0.1043

Mars 90734-01-26 19:55 G 34860998.22 34860998.33 34860998.45 0.1588 0.0333

Venus 90735-07-06 20:53 G 34861524.28 34861524.37 34861524.46 0.3621 0.1599

Jupiter 90736-03-27 17:31 G 34861789.11 34861789.23 34861789.36 0.0513 0.0048

Mars 90736-11-07 23:46 G 34862014.35 34862014.49 34862014.62 0.1950 0.1101

Moon 90738-04-24 16:19 G 34862547.06 34862547.18 34862547.30 0.2695 0.1751

Earth 90738-04-24 16:34 G 34862547.07 34862547.19 34862547.30 0.2702 0.1721 *

Moon 90740-10-27 16:34 G 34863464.13 34863464.19 34863464.25 0.2622 0.2257

Earth 90740-10-27 16:34 G 34863464.13 34863464.19 34863464.25 0.2629 0.2206 *

Mars 90741-07-14 06:43 G 34863723.73 34863723.78 34863723.84 0.1586 0.1373

Saturn 90742-04-05 09:50 G 34863988.82 34863988.91 34863989.02 0.0267 0.0166

Jupiter 90742-05-24 00:00 G 34864037.32 34864037.50 34864037.68 0.0513 0.0017

Saturn 90742-07-02 19:55 G 34864077.20 34864077.33 34864077.46 0.0266 0.0055

Saturn 90742-09-29 06:00 G 34864165.62 34864165.75 34864165.88 0.0265 0.0056

Saturn 90742-12-26 16:05 G 34864254.07 34864254.17 34864254.27 0.0264 0.0166

Mars 90743-06-19 07:41 G 34864428.70 34864428.82 34864428.94 0.1588 0.0012

Mars 90745-05-24 09:22 G 34865133.84 34865133.89 34865133.95 0.1592 0.1402

Earth 90747-10-21 15:36 G 34866014.06 34866014.15 34866014.24 0.2631 0.1657

Moon 90747-10-21 16:05 G 34866014.08 34866014.17 34866014.26 0.2635 0.1634 *

Jupiter 90748-01-14 22:05 G 34866099.30 34866099.42 34866099.55 0.0513 0.0121

Moon 90751-04-27 21:07 G 34867298.24 34867298.38 34867298.52 0.2700 0.0974

Earth 90751-04-27 22:34 G 34867298.30 34867298.44 34867298.57 0.2703 0.1184 *

Uranus 90752-04-07 05:31 G 34867643.68 34867643.73 34867643.81 0.0135 0.0127

Uranus 90752-07-04 12:43 G 34867731.92 34867732.03 34867732.17 0.0135 0.0100

Uranus 90752-09-30 20:10 G 34867820.19 34867820.34 34867820.51 0.0135 0.0073

Mars 90752-11-08 19:26 G 34867859.19 34867859.31 34867859.42 0.1587 0.0349

Uranus 90752-12-28 03:22 G 34867908.46 34867908.64 34867908.82 0.0135 0.0046

Uranus 90753-03-26 10:19 G 34867996.75 34867996.93 34867997.13 0.0135 0.0020

Uranus 90753-06-22 17:31 G 34868085.04 34868085.23 34868085.42 0.0135 0.0007

Uranus 90753-09-19 00:29 G 34868173.34 34868173.52 34868173.71 0.0135 0.0034

Uranus 90753-12-16 07:26 G 34868261.65 34868261.81 34868261.98 0.0135 0.0060

Jupiter 90754-03-11 20:53 G 34868347.21 34868347.37 34868347.52 0.0512 0.0263

Uranus 90754-03-14 14:24 G 34868349.96 34868350.10 34868350.25 0.0135 0.0086

Uranus 90754-06-10 21:07 G 34868438.29 34868438.38 34868438.50 0.0135 0.0112

Mars 90754-10-14 20:53 G 34868564.28 34868564.37 34868564.46 0.1591 0.1053

Mars 90757-07-28 16:34 G 34869582.09 34869582.19 34869582.29 0.1947 0.1515

Saturn 90758-04-17 15:22 G 34869844.99 34869845.14 34869845.30 0.0296 0.0153

Saturn 90758-07-15 17:02 G 34869934.03 34869934.21 34869934.39 0.0297 0.0068

Saturn 90758-10-12 18:14 G 34870023.22 34870023.26 34870023.31 0.0298 0.0288

Jupiter 90759-11-03 02:38 G 34870409.51 34870409.61 34870409.72 0.0514 0.0288

Jupiter 90760-01-31 07:26 G 34870498.72 34870498.81 34870498.89 0.0512 0.0389

Earth 90760-10-23 09:22 G 34870764.78 34870764.89 34870765.00 0.2630 0.0300

Moon 90760-10-23 10:05 G 34870764.81 34870764.92 34870765.04 0.2629 0.0185 *

Mars 90762-04-01 07:12 G 34871289.69 34871289.80 34871289.91 0.1586 0.0682

Mars 90764-03-06 08:24 G 34871994.75 34871994.85 34871994.96 0.1590 0.0705

Jupiter 90765-12-28 17:17 G 34872657.22 34872657.22 34872657.22 0.0511 0.0511

Jupiter 90766-03-29 05:02 G 34872747.66 34872747.71 34872747.76 0.0514 0.0491

Mars 90766-12-18 08:38 G 34873011.70 34873011.86 34873012.03 0.1949 0.0265

Venus 90767-03-12 06:58 G 34873095.64 34873095.79 34873095.93 0.3751 0.1629

Pluto 90770-03-17 18:58 G 34874197.22 34874197.29 34874197.39 0.0083 0.0065

Pluto 90770-06-13 20:24 G 34874285.24 34874285.35 34874285.48 0.0083 0.0045

Pluto 90770-09-09 21:50 G 34874373.28 34874373.41 34874373.55 0.0083 0.0024

Pluto 90770-12-06 23:17 G 34874461.33 34874461.47 34874461.61 0.0083 0.0004

Pluto 90771-03-05 00:29 G 34874549.39 34874549.52 34874549.67 0.0082 0.0016

Pluto 90771-06-01 01:41 G 34874637.46 34874637.57 34874637.71 0.0082 0.0037

Jupiter 90771-08-22 07:26 G 34874719.75 34874719.81 34874719.87 0.0515 0.0449

Mars 90771-08-22 18:58 G 34874720.20 34874720.29 34874720.38 0.1586 0.1015

Saturn 90771-08-23 12:14 G 34874720.93 34874721.01 34874721.10 0.0267 0.0202

Pluto 90771-08-28 03:07 G 34874725.54 34874725.63 34874725.74 0.0082 0.0056

Jupiter 90771-11-19 12:14 G 34874808.89 34874809.01 34874809.12 0.0513 0.0228

Saturn 90771-11-19 22:19 G 34874809.31 34874809.43 34874809.55 0.0266 0.0091

Pluto 90771-11-24 04:19 G 34874813.64 34874813.68 34874813.75 0.0082 0.0076

Saturn 90772-02-16 08:24 G 34874897.72 34874897.85 34874897.98 0.0265 0.0019

Saturn 90772-05-14 18:14 G 34874986.15 34874986.26 34874986.38 0.0264 0.0129

Saturn 90772-08-11 04:19 G 34875074.63 34875074.68 34875074.74 0.0264 0.0239

Mars 90773-07-27 20:10 G 34875425.22 34875425.34 34875425.45 0.1588 0.0364

Earth 90773-10-26 03:22 G 34875515.54 34875515.64 34875515.74 0.2629 0.1086

Moon 90773-10-26 03:50 G 34875515.56 34875515.66 34875515.76 0.2625 0.1169 *

Mars 90776-05-09 00:43 G 34876441.39 34876441.53 34876441.68 0.1950 0.1014

Jupiter 90778-01-15 01:26 G 34877057.40 34877057.56 34877057.73 0.0513 0.0240

Venus 90781-01-11 12:29 G 34878149.93 34878150.02 34878150.11 0.3622 0.1740

Mars 90781-01-12 06:43 G 34878150.72 34878150.78 34878150.84 0.1586 0.1345

Mars 90782-12-18 07:41 G 34878855.70 34878855.82 34878855.94 0.1588 0.0021

Jupiter 90783-09-07 17:02 G 34879119.08 34879119.21 34879119.33 0.0513 0.0068

Moon 90784-04-24 22:34 G 34879349.30 34879349.44 34879349.58 0.2696 0.1181

Earth 90784-04-24 23:02 G 34879349.32 34879349.46 34879349.60 0.2703 0.1172 *

Neptune 90784-11-20 12:00 G 34879558.99 34879559.00 34879559.02 0.0088 0.0087

Mars 90784-11-22 09:36 G 34879560.85 34879560.90 34879560.95 0.1592 0.1436

Neptune 90785-02-16 13:12 G 34879647.01 34879647.05 34879647.11 0.0088 0.0080

Neptune 90785-05-15 14:38 G 34879735.04 34879735.11 34879735.19 0.0088 0.0073

Neptune 90785-08-11 15:50 G 34879823.08 34879823.16 34879823.26 0.0088 0.0066

Neptune 90785-11-07 17:02 G 34879911.12 34879911.21 34879911.32 0.0088 0.0059

Neptune 90786-02-03 18:29 G 34879999.17 34879999.27 34879999.39 0.0088 0.0052

Neptune 90786-05-02 19:55 G 34880087.22 34880087.33 34880087.45 0.0088 0.0044

Venus 90786-07-28 03:22 G 34880173.54 34880173.64 34880173.74 0.3621 0.0317

Neptune 90786-07-29 21:07 G 34880175.27 34880175.38 34880175.51 0.0088 0.0038

Neptune 90786-10-25 22:34 G 34880263.32 34880263.44 34880263.57 0.0088 0.0030

Moon 90786-10-28 21:22 G 34880266.35 34880266.39 34880266.43 0.2622 0.2436

Earth 90786-10-28 21:22 G 34880266.36 34880266.39 34880266.42 0.2629 0.2492 *

Neptune 90787-01-22 00:00 G 34880351.37 34880351.50 34880351.63 0.0088 0.0023

Neptune 90787-04-20 01:12 G 34880439.42 34880439.55 34880439.69 0.0088 0.0016

Neptune 90787-07-17 02:38 G 34880527.48 34880527.61 34880527.74 0.0088 0.0009

Saturn 90787-09-04 10:48 G 34880576.84 34880576.95 34880577.06 0.0296 0.0238

Neptune 90787-10-13 03:50 G 34880615.53 34880615.66 34880615.80 0.0088 0.0003

Saturn 90787-12-02 12:29 G 34880665.83 34880666.02 34880666.20 0.0297 0.0019

Neptune 90788-01-09 05:17 G 34880703.59 34880703.72 34880703.86 0.0088 0.0006

Saturn 90788-02-29 13:41 G 34880754.94 34880755.07 34880755.21 0.0298 0.0203

Neptune 90788-04-06 06:43 G 34880791.64 34880791.78 34880791.91 0.0088 0.0013

Neptune 90788-07-03 07:55 G 34880879.70 34880879.83 34880879.96 0.0088 0.0020

Neptune 90788-09-29 09:22 G 34880967.76 34880967.89 34880968.02 0.0088 0.0027

Neptune 90788-12-26 10:34 G 34881055.82 34881055.94 34881056.07 0.0088 0.0035

Neptune 90789-03-24 11:46 G 34881143.88 34881143.99 34881144.12 0.0088 0.0042

Neptune 90789-06-20 13:12 G 34881231.95 34881232.05 34881232.17 0.0088 0.0049

Neptune 90789-09-16 14:38 G 34881320.01 34881320.11 34881320.22 0.0088 0.0056

Jupiter 90789-11-02 22:48 G 34881367.27 34881367.45 34881367.64 0.0513 0.0006

Neptune 90789-12-13 15:50 G 34881408.08 34881408.16 34881408.27 0.0088 0.0064

Neptune 90790-03-11 17:17 G 34881496.15 34881496.22 34881496.31 0.0088 0.0071

Neptune 90790-06-07 18:43 G 34881584.23 34881584.28 34881584.35 0.0088 0.0078

Neptune 90790-09-03 20:10 G 34881672.32 34881672.34 34881672.37 0.0088 0.0085

Venus 90792-02-10 18:14 G 34882197.18 34882197.26 34882197.34 0.3621 0.2349

Mars 90792-05-09 19:26 G 34882286.19 34882286.31 34882286.42 0.1587 0.0322

Earth 90793-10-21 20:24 G 34882816.25 34882816.35 34882816.44 0.2631 0.1392

Moon 90793-10-21 20:53 G 34882816.28 34882816.37 34882816.47 0.2634 0.1256 *

Mars 90794-04-14 20:53 G 34882991.28 34882991.37 34882991.46 0.1591 0.1081

Uranus 90794-07-09 12:58 G 34883077.02 34883077.04 34883077.06 0.0143 0.0141

Uranus 90794-10-05 16:19 G 34883165.12 34883165.18 34883165.26 0.0143 0.0120

Uranus 90795-01-01 19:55 G 34883253.24 34883253.33 34883253.43 0.0143 0.0098

Uranus 90795-03-30 23:46 G 34883341.38 34883341.49 34883341.60 0.0143 0.0076

Jupiter 90795-06-26 21:22 G 34883429.26 34883429.39 34883429.51 0.0513 0.0105

Uranus 90795-06-27 03:22 G 34883429.52 34883429.64 34883429.76 0.0143 0.0054

Uranus 90795-09-23 06:58 G 34883517.66 34883517.79 34883517.92 0.0143 0.0032

Uranus 90795-12-20 10:34 G 34883605.81 34883605.94 34883606.08 0.0143 0.0011

Uranus 90796-03-17 14:24 G 34883693.96 34883694.10 34883694.23 0.0143 0.0013

Uranus 90796-06-13 18:00 G 34883782.12 34883782.25 34883782.38 0.0143 0.0035

Uranus 90796-09-09 21:36 G 34883870.28 34883870.40 34883870.53 0.0143 0.0058

Uranus 90796-12-07 01:26 G 34883958.45 34883958.56 34883958.67 0.0143 0.0080

Mars 90797-01-26 16:48 G 34884009.11 34884009.20 34884009.30 0.1947 0.1569

Uranus 90797-03-05 05:02 G 34884046.62 34884046.71 34884046.81 0.0143 0.0103

Moon 90797-04-28 03:36 G 34884100.52 34884100.65 34884100.77 0.2700 0.1541

Earth 90797-04-28 05:02 G 34884100.59 34884100.71 34884100.82 0.2703 0.1724 *

Uranus 90797-06-01 08:53 G 34884134.81 34884134.87 34884134.94 0.0143 0.0126

Saturn 90801-01-09 14:24 G 34885453.05 34885453.10 34885453.16 0.0268 0.0242

Saturn 90801-04-08 00:29 G 34885541.41 34885541.52 34885541.64 0.0267 0.0131

Saturn 90801-07-05 10:34 G 34885629.81 34885629.94 34885630.08 0.0266 0.0020

Jupiter 90801-08-21 19:41 G 34885677.16 34885677.32 34885677.48 0.0513 0.0242

Mars 90801-09-30 07:12 G 34885716.69 34885716.80 34885716.91 0.1587 0.0653

Saturn 90801-10-01 20:38 G 34885718.24 34885718.36 34885718.49 0.0265 0.0092

Saturn 90801-12-29 06:43 G 34885806.70 34885806.78 34885806.87 0.0265 0.0202

Mars 90803-09-05 08:24 G 34886421.75 34886421.85 34886421.96 0.1590 0.0737

Mars 90806-06-18 09:50 G 34887438.75 34887438.91 34887439.07 0.1949 0.0351

Earth 90806-10-24 14:10 G 34887566.98 34887567.09 34887567.21 0.2630 0.0076

Moon 90806-10-24 14:53 G 34887567.01 34887567.12 34887567.24 0.2629 0.0118 *

Jupiter 90807-04-15 01:55 G 34887739.47 34887739.58 34887739.69 0.0514 0.0271

Jupiter 90807-07-13 06:29 G 34887828.69 34887828.77 34887828.85 0.0511 0.0403

Mars 90811-02-20 18:58 G 34889147.20 34889147.29 34889147.38 0.1586 0.0985

Mars 90813-01-25 20:10 G 34889852.22 34889852.34 34889852.45 0.1588 0.0395

Jupiter 90813-06-09 16:19 G 34889987.13 34889987.18 34889987.23 0.0512 0.0489

Mars 90815-11-08 01:41 G 34890868.42 34890868.57 34890868.71 0.1950 0.0936

Saturn 90817-04-20 09:36 G 34891397.72 34891397.90 34891398.08 0.0296 0.0089

Saturn 90817-07-18 11:02 G 34891486.80 34891486.96 34891487.13 0.0297 0.0131

Jupiter 90819-02-01 06:14 G 34892049.70 34892049.76 34892049.83 0.0515 0.0440

Jupiter 90819-05-01 10:48 G 34892138.84 34892138.95 34892139.07 0.0512 0.0236

Earth 90819-10-27 08:10 G 34892317.75 34892317.84 34892317.94 0.2629 0.1367

Moon 90819-10-27 08:38 G 34892317.76 34892317.86 34892317.95 0.2623 0.1421 *

Mars 90820-07-13 06:43 G 34892577.72 34892577.78 34892577.85 0.1586 0.1312

Mars 90822-06-18 07:41 G 34893282.70 34893282.82 34893282.94 0.1588 0.0053

Venus 90823-10-17 09:50 G 34893768.76 34893768.91 34893769.06 0.3752 0.1312

Mars 90824-05-23 09:22 G 34893987.85 34893987.89 34893987.94 0.1592 0.1467

Jupiter 90825-06-27 00:58 G 34894387.39 34894387.54 34894387.70 0.0513 0.0267

Earth 90826-10-20 07:26 G 34894867.78 34894867.81 34894867.85 0.2631 0.2465

Moon 90826-10-20 07:41 G 34894867.78 34894867.82 34894867.87 0.2638 0.2385 *

Moon 90830-04-26 04:48 G 34896151.55 34896151.70 34896151.85 0.2697 0.0797

Earth 90830-04-26 05:31 G 34896151.59 34896151.73 34896151.88 0.2703 0.0620 *

Saturn 90830-08-26 03:07 G 34896273.53 34896273.63 34896273.74 0.0267 0.0165

Saturn 90830-11-22 13:12 G 34896361.92 34896362.05 34896362.18 0.0266 0.0054

Jupiter 90831-02-17 15:36 G 34896449.02 34896449.15 34896449.28 0.0513 0.0072

Saturn 90831-02-18 23:17 G 34896450.34 34896450.47 34896450.60 0.0265 0.0057

Saturn 90831-05-18 09:22 G 34896538.79 34896538.89 34896538.99 0.0264 0.0168

Mars 90831-11-08 19:26 G 34896713.19 34896713.31 34896713.42 0.1587 0.0288

Venus 90832-02-02 18:43 G 34896799.23 34896799.28 34896799.34 0.3623 0.3021

Mars 90833-10-13 20:53 G 34897418.29 34897418.37 34897418.46 0.1591 0.1117

Uranus 90836-04-27 12:14 G 34898344.94 34898345.01 34898345.10 0.0135 0.0121

Uranus 90836-07-24 19:41 G 34898433.18 34898433.32 34898433.45 0.0135 0.0094

Mars 90836-07-27 18:00 G 34898436.17 34898436.25 34898436.33 0.1947 0.1658

Uranus 90836-10-21 02:38 G 34898521.45 34898521.61 34898521.78 0.0135 0.0068

Uranus 90837-01-17 09:50 G 34898609.73 34898609.91 34898610.10 0.0135 0.0041

Jupiter 90837-04-14 21:22 G 34898697.20 34898697.39 34898697.57 0.0513 0.0015

Uranus 90837-04-15 17:02 G 34898698.02 34898698.21 34898698.40 0.0135 0.0014

Uranus 90837-07-13 00:00 G 34898786.31 34898786.50 34898786.69 0.0135 0.0013

Venus 90837-08-18 09:36 G 34898822.80 34898822.90 34898823.00 0.3622 0.0997

Uranus 90837-10-09 06:58 G 34898874.61 34898874.79 34898874.98 0.0135 0.0039

Uranus 90838-01-05 13:55 G 34898962.92 34898963.08 34898963.25 0.0135 0.0065

Uranus 90838-04-03 20:53 G 34899051.24 34899051.37 34899051.51 0.0135 0.0091

Uranus 90838-07-01 03:50 G 34899139.57 34899139.66 34899139.76 0.0135 0.0117

Earth 90839-10-23 01:12 G 34899618.45 34899618.55 34899618.65 0.2631 0.1117

Moon 90839-10-23 01:55 G 34899618.48 34899618.58 34899618.68 0.2633 0.1087 *

Mars 90841-03-31 06:58 G 34900143.69 34900143.79 34900143.90 0.1586 0.0628

Jupiter 90842-12-06 20:24 G 34900759.23 34900759.35 34900759.48 0.0514 0.0090

Venus 90843-03-04 00:29 G 34900846.43 34900846.52 34900846.62 0.3621 0.1051

Mars 90843-03-06 08:24 G 34900848.75 34900848.85 34900848.96 0.1589 0.0767

Moon 90843-04-29 09:50 G 34900902.82 34900902.91 34900903.01 0.2700 0.2074

Earth 90843-04-29 11:17 G 34900902.89 34900902.97 34900903.05 0.2704 0.2254 *

Mars 90845-12-17 10:19 G 34901865.77 34901865.93 34901866.09 0.1949 0.0411

Saturn 90846-09-07 05:31 G 34902129.59 34902129.73 34902129.89 0.0296 0.0168

Saturn 90846-12-05 07:12 G 34902218.62 34902218.80 34902218.99 0.0297 0.0053

Saturn 90847-03-04 08:38 G 34902307.79 34902307.86 34902307.93 0.0298 0.0272

Venus 90848-09-16 15:36 G 34902870.10 34902870.15 34902870.20 0.3620 0.3109

Jupiter 90849-01-31 18:14 G 34903007.10 34903007.26 34903007.42 0.0512 0.0230

Mars 90850-08-21 18:58 G 34903574.19 34903574.29 34903574.38 0.1586 0.0954

Mars 90852-07-26 19:55 G 34904279.22 34904279.33 34904279.45 0.1588 0.0421

Earth 90852-10-24 19:12 G 34904369.18 34904369.30 34904369.41 0.2630 0.0269

Moon 90852-10-24 19:41 G 34904369.21 34904369.32 34904369.44 0.2628 0.0404 *

Jupiter 90854-09-25 00:43 G 34905069.43 34905069.53 34905069.65 0.0514 0.0260

Jupiter 90854-12-23 05:31 G 34905158.65 34905158.73 34905158.80 0.0511 0.0415

Mars 90855-05-09 02:24 G 34905295.45 34905295.60 34905295.75 0.1950 0.0863

Mars 90860-01-12 06:43 G 34907004.71 34907004.78 34907004.85 0.1586 0.1284

Saturn 90860-01-13 05:31 G 34907005.65 34907005.73 34907005.82 0.0268 0.0203

Saturn 90860-04-10 15:36 G 34907094.03 34907094.15 34907094.28 0.0267 0.0091

Saturn 90860-07-08 01:41 G 34907182.44 34907182.57 34907182.70 0.0266 0.0020

Saturn 90860-10-04 11:46 G 34907270.88 34907270.99 34907271.11 0.0265 0.0131

Jupiter 90860-11-19 14:38 G 34907317.05 34907317.11 34907317.18 0.0512 0.0479

Saturn 90860-12-31 21:50 G 34907359.36 34907359.41 34907359.46 0.0265 0.0242

Mars 90861-12-17 07:41 G 34907709.70 34907709.82 34907709.94 0.1588 0.0082

Mars 90863-11-22 09:22 G 34908414.86 34908414.89 34908414.93 0.1592 0.1499

Earth 90865-10-27 12:58 G 34909119.96 34909120.04 34909120.13 0.2629 0.1647

Moon 90865-10-27 13:26 G 34909119.97 34909120.06 34909120.14 0.2623 0.1657 *

Jupiter 90866-07-14 05:17 G 34909379.66 34909379.72 34909379.80 0.0514 0.0426

Jupiter 90866-10-11 09:50 G 34909468.80 34909468.91 34909469.03 0.0512 0.0247

Neptune 90868-05-10 15:22 G 34910046.13 34910046.14 34910046.16 0.0090 0.0089

Neptune 90868-08-06 18:29 G 34910134.20 34910134.27 34910134.39 0.0090 0.0079

Neptune 90868-11-02 22:05 G 34910222.32 34910222.42 34910222.57 0.0090 0.0068

Neptune 90869-01-30 01:55 G 34910310.44 34910310.58 34910310.74 0.0090 0.0057

Neptune 90869-04-28 05:31 G 34910398.57 34910398.73 34910398.90 0.0090 0.0046

Neptune 90869-07-25 09:07 G 34910486.71 34910486.88 34910487.06 0.0090 0.0035

Neptune 90869-10-21 12:43 G 34910574.85 34910575.03 34910575.22 0.0090 0.0024

Neptune 90870-01-17 16:19 G 34910662.99 34910663.18 34910663.37 0.0090 0.0013

Neptune 90870-04-15 19:55 G 34910751.14 34910751.33 34910751.52 0.0090 0.0003

Neptune 90870-07-12 23:17 G 34910839.28 34910839.47 34910839.66 0.0090 0.0009

Neptune 90870-10-09 02:38 G 34910927.43 34910927.61 34910927.80 0.0090 0.0020

Neptune 90871-01-05 06:14 G 34911015.58 34911015.76 34911015.94 0.0090 0.0030

Neptune 90871-04-03 09:36 G 34911103.74 34911103.90 34911104.07 0.0090 0.0041

Mars 90871-05-09 19:26 G 34911140.19 34911140.31 34911140.42 0.1587 0.0264

Neptune 90871-06-30 12:58 G 34911191.90 34911192.04 34911192.20 0.0090 0.0052

Neptune 90871-09-26 16:34 G 34911280.06 34911280.19 34911280.33 0.0090 0.0062

Neptune 90871-12-23 19:41 G 34911368.23 34911368.32 34911368.45 0.0090 0.0073

Neptune 90872-03-20 23:31 G 34911456.41 34911456.48 34911456.55 0.0090 0.0083

Earth 90872-10-20 12:14 G 34911669.95 34911670.01 34911670.07 0.2631 0.2197

Moon 90872-10-20 12:43 G 34911669.97 34911670.03 34911670.08 0.2637 0.2209 *

Jupiter 90872-12-06 23:31 G 34911717.33 34911717.48 34911717.64 0.0514 0.0281

Mars 90873-04-13 20:53 G 34911845.29 34911845.37 34911845.45 0.1591 0.1147

Saturn 90876-01-25 03:50 G 34912861.55 34912861.66 34912861.78 0.0295 0.0230

Mars 90876-01-26 18:43 G 34912863.21 34912863.28 34912863.36 0.1947 0.1734

Saturn 90876-04-23 05:31 G 34912950.55 34912950.73 34912950.92 0.0296 0.0011

Moon 90876-04-26 11:02 G 34912953.81 34912953.96 34912954.12 0.2697 0.0109

Earth 90876-04-26 12:14 G 34912953.85 34912954.01 34912954.16 0.2703 0.0095 *

Saturn 90876-07-21 06:58 G 34913039.66 34913039.79 34913039.92 0.0297 0.0210

Uranus 90878-07-29 19:41 G 34913778.29 34913778.32 34913778.35 0.0143 0.0138

Jupiter 90878-07-30 14:10 G 34913778.97 34913779.09 34913779.22 0.0513 0.0078

Uranus 90878-10-25 23:02 G 34913866.40 34913866.46 34913866.55 0.0143 0.0117

Uranus 90879-01-22 02:38 G 34913954.52 34913954.61 34913954.72 0.0143 0.0096

Uranus 90879-04-20 06:29 G 34914042.66 34914042.77 34914042.89 0.0143 0.0073

Uranus 90879-07-17 10:05 G 34914130.80 34914130.92 34914131.05 0.0143 0.0051

Uranus 90879-10-13 13:41 G 34914218.94 34914219.07 34914219.20 0.0143 0.0029

Uranus 90880-01-09 17:17 G 34914307.09 34914307.22 34914307.36 0.0143 0.0008

Uranus 90880-04-06 21:07 G 34914395.24 34914395.38 34914395.51 0.0143 0.0016

Uranus 90880-07-04 00:43 G 34914483.40 34914483.53 34914483.66 0.0143 0.0038

Mars 90880-09-29 07:12 G 34914570.69 34914570.80 34914570.91 0.1586 0.0593

Uranus 90880-09-30 04:19 G 34914571.56 34914571.68 34914571.81 0.0143 0.0061

Uranus 90880-12-27 08:10 G 34914659.73 34914659.84 34914659.95 0.0143 0.0083

Uranus 90881-03-25 11:46 G 34914747.91 34914747.99 34914748.08 0.0143 0.0106

Uranus 90881-06-21 15:36 G 34914836.10 34914836.15 34914836.21 0.0143 0.0129

Mars 90882-09-04 08:24 G 34915275.75 34915275.85 34915275.95 0.1589 0.0799

Jupiter 90884-09-24 20:10 G 34916027.16 34916027.34 34916027.52 0.0513 0.0032

Mars 90885-06-17 11:17 G 34916292.81 34916292.97 34916293.13 0.1949 0.0498

Earth 90885-10-23 06:00 G 34916420.65 34916420.75 34916420.86 0.2631 0.0846

Moon 90885-10-23 06:43 G 34916420.67 34916420.78 34916420.89 0.2632 0.0678 *

Venus 90888-09-08 16:05 G 34917472.09 34917472.17 34917472.25 0.3622 0.2277

Moon 90889-04-29 16:19 G 34917705.14 34917705.18 34917705.23 0.2701 0.2559

Saturn 90889-06-01 08:24 G 34917737.79 34917737.85 34917737.91 0.0268 0.0234

Saturn 90889-08-28 18:29 G 34917826.15 34917826.27 34917826.39 0.0267 0.0122

Saturn 90889-11-25 04:34 G 34917914.55 34917914.69 34917914.82 0.0266 0.0013

Mars 90890-02-19 18:58 G 34918001.19 34918001.29 34918001.38 0.1586 0.0927

Saturn 90890-02-21 14:38 G 34918002.98 34918003.11 34918003.23 0.0265 0.0100

Jupiter 90890-05-18 18:58 G 34918089.16 34918089.29 34918089.41 0.0514 0.0091

Saturn 90890-05-21 00:43 G 34918091.45 34918091.53 34918091.61 0.0264 0.0211

Mars 90892-01-25 19:55 G 34918706.22 34918706.33 34918706.45 0.1588 0.0458

Venus 90894-03-25 06:58 G 34919495.69 34919495.79 34919495.89 0.3621 0.0256

Mars 90894-11-07 03:22 G 34919722.49 34919722.64 34919722.79 0.1950 0.0780

Jupiter 90896-07-13 16:19 G 34920337.01 34920337.18 34920337.34 0.0512 0.0226

Earth 90898-10-26 00:00 G 34921171.39 34921171.50 34921171.61 0.2630 0.0533

Moon 90898-10-26 00:29 G 34921171.41 34921171.52 34921171.64 0.2627 0.0569 *

Mars 90899-07-13 06:43 G 34921431.71 34921431.78 34921431.85 0.1586 0.1255

Venus 90899-10-08 21:50 G 34921519.32 34921519.41 34921519.50 0.3621 0.1801

Mars 90901-06-18 07:41 G 34922136.70 34922136.82 34922136.93 0.1587 0.0119

Jupiter 90902-03-07 23:31 G 34922399.37 34922399.48 34922399.60 0.0514 0.0252

Jupiter 90902-06-05 04:19 G 34922488.61 34922488.68 34922488.75 0.0512 0.0424

Mars 90903-05-24 09:22 G 34922841.87 34922841.89 34922841.93 0.1592 0.1532

Saturn 90905-09-11 02:38 G 34923682.43 34923682.61 34923682.79 0.0296 0.0081

Saturn 90905-12-09 04:05 G 34923771.51 34923771.67 34923771.83 0.0297 0.0139

Jupiter 90908-05-02 12:43 G 34924646.97 34924647.03 34924647.11 0.0512 0.0473

Mars 90908-12-03 18:29 G 34924862.27 34924862.27 34924862.28 0.1586 0.1581

Moon 90909-04-25 12:29 G 34925004.95 34925005.02 34925005.09 0.2695 0.2382

Earth 90909-04-25 12:29 G 34925004.96 34925005.02 34925005.08 0.2702 0.2476 *

Mars 90910-11-08 19:26 G 34925567.19 34925567.31 34925567.42 0.1587 0.0235

Earth 90911-10-29 18:00 G 34925922.17 34925922.25 34925922.32 0.2629 0.1926

Moon 90911-10-29 18:14 G 34925922.18 34925922.26 34925922.33 0.2623 0.1993 *

Mars 90912-10-13 20:53 G 34926272.29 34926272.37 34926272.45 0.1591 0.1176

Jupiter 90913-12-25 04:05 G 34926709.60 34926709.67 34926709.75 0.0514 0.0419

Jupiter 90914-03-24 08:38 G 34926798.75 34926798.86 34926798.97 0.0512 0.0254

Mars 90915-07-28 19:26 G 34927290.25 34927290.31 34927290.37 0.1947 0.1798

Earth 90918-10-22 17:02 G 34928472.14 34928472.21 34928472.29 0.2631 0.1928

Moon 90918-10-22 17:31 G 34928472.15 34928472.23 34928472.31 0.2636 0.1840 *

Saturn 90919-01-16 20:53 G 34928558.27 34928558.37 34928558.48 0.0268 0.0159

Saturn 90919-04-15 06:58 G 34928646.66 34928646.79 34928646.92 0.0267 0.0047

Saturn 90919-07-12 17:02 G 34928735.09 34928735.21 34928735.34 0.0266 0.0066

Saturn 90919-10-09 03:22 G 34928823.54 34928823.64 34928823.74 0.0265 0.0177

Mars 90920-03-31 06:58 G 34928997.68 34928997.79 34928997.90 0.1586 0.0565

Uranus 90920-05-18 18:43 G 34929046.19 34929046.28 34929046.38 0.0135 0.0116

Jupiter 90920-05-19 21:22 G 34929047.24 34929047.39 34929047.55 0.0514 0.0284

Uranus 90920-08-15 01:55 G 34929134.44 34929134.58 34929134.73 0.0135 0.0089

Uranus 90920-11-11 09:22 G 34929222.72 34929222.89 34929223.06 0.0135 0.0062

Uranus 90921-02-07 16:19 G 34929311.00 34929311.18 34929311.37 0.0135 0.0036

Uranus 90921-05-06 23:31 G 34929399.29 34929399.48 34929399.67 0.0135 0.0009

Uranus 90921-08-03 06:29 G 34929487.59 34929487.77 34929487.96 0.0135 0.0018

Uranus 90921-10-30 13:41 G 34929575.89 34929576.07 34929576.25 0.0135 0.0044

Uranus 90922-01-26 20:24 G 34929664.20 34929664.35 34929664.52 0.0135 0.0071

Mars 90922-03-06 08:24 G 34929702.75 34929702.85 34929702.95 0.1589 0.0830

Uranus 90922-04-25 03:22 G 34929752.52 34929752.64 34929752.78 0.0135 0.0097

Moon 90922-04-28 17:31 G 34929756.07 34929756.23 34929756.38 0.2697 0.0213

Earth 90922-04-28 18:29 G 34929756.12 34929756.27 34929756.42 0.2703 0.0472 *

Uranus 90922-07-22 10:05 G 34929840.86 34929840.92 34929841.01 0.0135 0.0123

Pluto 90924-01-07 02:24 G 34930374.52 34930374.60 34930374.71 0.0061 0.0052

Pluto 90924-04-04 03:22 G 34930462.52 34930462.64 34930462.79 0.0061 0.0042

Pluto 90924-07-01 04:48 G 34930550.55 34930550.70 34930550.86 0.0061 0.0031

Pluto 90924-09-27 05:46 G 34930638.58 34930638.74 34930638.92 0.0062 0.0020

Mars 90924-12-17 12:14 G 34930719.86 34930720.01 34930720.17 0.1949 0.0580

Pluto 90924-12-24 06:58 G 34930726.62 34930726.79 34930726.97 0.0062 0.0010

Pluto 90925-03-22 08:10 G 34930814.66 34930814.84 34930815.02 0.0062 0.0001

Pluto 90925-06-18 09:07 G 34930902.71 34930902.88 34930903.06 0.0062 0.0011

Pluto 90925-09-14 10:05 G 34930990.76 34930990.92 34930991.10 0.0062 0.0022

Pluto 90925-12-11 11:02 G 34931078.83 34931078.96 34931079.13 0.0062 0.0033

Jupiter 90926-01-10 13:12 G 34931108.92 34931109.05 34931109.17 0.0512 0.0086

Pluto 90926-03-09 12:14 G 34931166.90 34931167.01 34931167.15 0.0062 0.0043

Pluto 90926-06-05 13:12 G 34931254.98 34931255.05 34931255.16 0.0062 0.0054

Mars 90929-08-21 18:58 G 34932428.19 34932428.29 34932428.38 0.1586 0.0896

Venus 90931-06-15 03:07 G 34933090.49 34933090.63 34933090.77 0.3751 0.1992

Mars 90931-07-27 19:55 G 34933133.22 34933133.33 34933133.45 0.1588 0.0487

Earth 90931-10-25 11:02 G 34933222.85 34933222.96 34933223.07 0.2630 0.0578

Moon 90931-10-25 11:46 G 34933222.88 34933222.99 34933223.10 0.2632 0.0538 *

Jupiter 90932-03-07 18:14 G 34933357.07 34933357.26 34933357.44 0.0513 0.0037

Mars 90934-05-09 04:19 G 34934149.52 34934149.68 34934149.83 0.1950 0.0700

Saturn 90935-01-29 01:41 G 34934414.40 34934414.57 34934414.73 0.0295 0.0137

Saturn 90935-04-28 03:07 G 34934503.45 34934503.63 34934503.81 0.0296 0.0083

Jupiter 90937-10-29 17:17 G 34935419.10 34935419.22 34935419.35 0.0513 0.0090

Mars 90939-01-12 06:43 G 34935858.71 34935858.78 34935858.85 0.1586 0.1223

Venus 90939-10-01 22:34 G 34936121.42 34936121.44 34936121.45 0.3623 0.3552

Mars 90940-12-17 07:41 G 34936563.70 34936563.82 34936563.94 0.1587 0.0146

Mars 90942-11-22 09:36 G 34937268.88 34937268.90 34937268.92 0.1592 0.1563

Jupiter 90943-12-25 14:38 G 34937666.94 34937667.11 34937667.28 0.0512 0.0216

Earth 90944-10-27 04:48 G 34937973.59 34937973.70 34937973.81 0.2630 0.0810

Moon 90944-10-27 05:17 G 34937973.62 34937973.72 34937973.83 0.2625 0.0954 *

Venus 90945-04-16 13:12 G 34938144.96 34938145.05 34938145.15 0.3622 0.1536

Mars 90948-06-03 18:29 G 34939289.25 34939289.27 34939289.29 0.1586 0.1553

Saturn 90948-06-05 00:00 G 34939290.41 34939290.50 34939290.60 0.0268 0.0187

Saturn 90948-09-01 10:05 G 34939378.80 34939378.92 34939379.05 0.0267 0.0076

Saturn 90948-11-28 20:10 G 34939467.21 34939467.34 34939467.48 0.0266 0.0038

Saturn 90949-02-25 06:29 G 34939555.66 34939555.77 34939555.88 0.0265 0.0148

Saturn 90949-05-24 16:34 G 34939644.17 34939644.19 34939644.21 0.0264 0.0259

Jupiter 90949-08-17 21:50 G 34939729.30 34939729.41 34939729.52 0.0514 0.0256

Neptune 90949-08-18 11:46 G 34939729.96 34939729.99 34939730.04 0.0088 0.0083

Neptune 90949-11-14 13:12 G 34939817.99 34939818.05 34939818.12 0.0088 0.0076

Jupiter 90949-11-15 02:38 G 34939818.53 34939818.61 34939818.68 0.0512 0.0419

Neptune 90950-02-10 14:24 G 34939906.03 34939906.10 34939906.19 0.0088 0.0069

Neptune 90950-05-09 15:50 G 34939994.07 34939994.16 34939994.26 0.0088 0.0062

Mars 90950-05-09 19:26 G 34939994.19 34939994.31 34939994.42 0.1587 0.0204 *

Neptune 90950-08-05 17:02 G 34940082.11 34940082.21 34940082.32 0.0088 0.0055

Venus 90950-10-31 04:05 G 34940168.57 34940168.67 34940168.78 0.3621 0.0531

Neptune 90950-11-01 18:29 G 34940170.16 34940170.27 34940170.39 0.0088 0.0048

Neptune 90951-01-28 19:41 G 34940258.21 34940258.32 34940258.45 0.0088 0.0041

Neptune 90951-04-26 21:07 G 34940346.26 34940346.38 34940346.51 0.0088 0.0033

Neptune 90951-07-23 22:34 G 34940434.31 34940434.44 34940434.57 0.0088 0.0026

Neptune 90951-10-19 23:46 G 34940522.36 34940522.49 34940522.63 0.0088 0.0019

Neptune 90952-01-16 01:12 G 34940610.42 34940610.55 34940610.68 0.0088 0.0012

Neptune 90952-04-13 02:24 G 34940698.47 34940698.60 34940698.74 0.0088 0.0005

Mars 90952-04-13 20:53 G 34940699.30 34940699.37 34940699.45 0.1591 0.1212

Neptune 90952-07-10 03:50 G 34940786.53 34940786.66 34940786.80 0.0088 0.0003

Neptune 90952-10-06 05:17 G 34940874.58 34940874.72 34940874.85 0.0088 0.0010

Neptune 90953-01-02 06:29 G 34940962.64 34940962.77 34940962.90 0.0088 0.0017

Neptune 90953-03-31 07:55 G 34941050.70 34941050.83 34941050.96 0.0088 0.0024

Neptune 90953-06-27 09:07 G 34941138.76 34941138.88 34941139.01 0.0088 0.0031

Neptune 90953-09-23 10:19 G 34941226.82 34941226.93 34941227.06 0.0088 0.0039

Neptune 90953-12-20 11:46 G 34941314.88 34941314.99 34941315.11 0.0088 0.0046

Neptune 90954-03-18 13:12 G 34941402.95 34941403.05 34941403.16 0.0088 0.0053

Neptune 90954-06-14 14:24 G 34941491.01 34941491.10 34941491.21 0.0088 0.0061

Neptune 90954-09-10 15:50 G 34941579.08 34941579.16 34941579.25 0.0088 0.0068

Neptune 90954-12-07 17:17 G 34941667.16 34941667.22 34941667.30 0.0088 0.0075

Mars 90955-01-26 20:24 G 34941717.31 34941717.35 34941717.39 0.1947 0.1880

Neptune 90955-03-05 18:43 G 34941755.24 34941755.28 34941755.33 0.0088 0.0082

Moon 90955-04-26 18:29 G 34941807.17 34941807.27 34941807.37 0.2695 0.2041

Earth 90955-04-26 18:58 G 34941807.18 34941807.29 34941807.40 0.2702 0.1923 *

Jupiter 90955-10-13 10:19 G 34941976.87 34941976.93 34941977.00 0.0512 0.0476

Venus 90956-05-15 19:12 G 34942192.23 34942192.30 34942192.37 0.3621 0.2557

Moon 90957-10-29 23:02 G 34942724.39 34942724.46 34942724.52 0.2623 0.2180

Earth 90957-10-29 22:48 G 34942724.39 34942724.45 34942724.51 0.2629 0.2211 *

Mars 90959-09-30 06:58 G 34943424.68 34943424.79 34943424.90 0.1586 0.0535

Jupiter 90961-06-06 02:38 G 34944039.54 34944039.61 34944039.68 0.0515 0.0419

Jupiter 90961-09-03 07:12 G 34944128.69 34944128.80 34944128.91 0.0512 0.0255

Mars 90961-09-04 08:24 G 34944129.75 34944129.85 34944129.95 0.1589 0.0862

Uranus 90962-08-20 02:53 G 34944479.58 34944479.62 34944479.67 0.0143 0.0133

Uranus 90962-11-16 06:14 G 34944567.69 34944567.76 34944567.85 0.0143 0.0112

Uranus 90963-02-12 09:50 G 34944655.82 34944655.91 34944656.02 0.0143 0.0090

Uranus 90963-05-11 13:26 G 34944743.95 34944744.06 34944744.19 0.0143 0.0069

Uranus 90963-08-07 17:17 G 34944832.09 34944832.22 34944832.35 0.0143 0.0046

Uranus 90963-11-03 20:53 G 34944920.24 34944920.37 34944920.50 0.0143 0.0024

Uranus 90964-01-31 00:29 G 34945008.39 34945008.52 34945008.66 0.0143 0.0003

Uranus 90964-04-28 04:05 G 34945096.54 34945096.67 34945096.81 0.0143 0.0021

Saturn 90964-06-16 23:46 G 34945146.36 34945146.49 34945146.63 0.0295 0.0198

Mars 90964-06-17 12:58 G 34945146.88 34945147.04 34945147.19 0.1949 0.0646

Uranus 90964-07-25 07:41 G 34945184.70 34945184.82 34945184.95 0.0143 0.0044

Saturn 90964-09-14 01:12 G 34945235.37 34945235.55 34945235.74 0.0296 0.0022

Uranus 90964-10-21 11:31 G 34945272.86 34945272.98 34945273.10 0.0143 0.0066

Earth 90964-10-22 21:50 G 34945274.33 34945274.41 34945274.50 0.2631 0.1662

Moon 90964-10-22 22:34 G 34945274.35 34945274.44 34945274.53 0.2635 0.1593 *

Saturn 90964-12-12 02:24 G 34945324.50 34945324.60 34945324.72 0.0297 0.0240

Uranus 90965-01-17 15:07 G 34945361.03 34945361.13 34945361.24 0.0143 0.0088

Uranus 90965-04-15 18:58 G 34945449.21 34945449.29 34945449.37 0.0143 0.0111

Uranus 90965-07-12 22:34 G 34945537.40 34945537.44 34945537.49 0.0143 0.0134

Jupiter 90967-10-30 19:12 G 34946377.15 34946377.30 34946377.45 0.0513 0.0281

Moon 90968-04-29 00:00 G 34946558.35 34946558.50 34946558.64 0.2698 0.0972

Earth 90968-04-29 00:58 G 34946558.40 34946558.54 34946558.68 0.2703 0.1015 *

Mars 90969-02-19 18:43 G 34946855.19 34946855.28 34946855.38 0.1586 0.0866

Mars 90971-01-25 19:55 G 34947560.22 34947560.33 34947560.44 0.1588 0.0513

Jupiter 90973-06-22 11:46 G 34948438.86 34948438.99 34948439.11 0.0512 0.0089

Mars 90973-11-07 05:02 G 34948576.55 34948576.71 34948576.87 0.1950 0.0628

Saturn 90977-10-23 02:53 G 34950022.55 34950022.62 34950022.70 0.0268 0.0220

Earth 90977-10-25 15:50 G 34950025.05 34950025.16 34950025.27 0.2630 0.0301

Moon 90977-10-25 16:34 G 34950025.07 34950025.19 34950025.30 0.2631 0.0170 *

Saturn 90978-01-19 12:58 G 34950110.92 34950111.04 34950111.16 0.0267 0.0108

Saturn 90978-04-17 23:02 G 34950199.33 34950199.46 34950199.60 0.0267 0.0008

Mars 90978-07-13 06:43 G 34950285.70 34950285.78 34950285.85 0.1586 0.1195

Saturn 90978-07-15 09:07 G 34950287.77 34950287.88 34950288.00 0.0266 0.0116

Saturn 90978-10-11 19:26 G 34950376.24 34950376.31 34950376.37 0.0265 0.0227

Jupiter 90979-08-18 15:22 G 34950686.96 34950687.14 34950687.32 0.0513 0.0026

Mars 90980-06-17 07:41 G 34950990.70 34950990.82 34950990.93 0.1587 0.0177

Mars 90983-03-29 20:53 G 34952006.34 34952006.37 34952006.39 0.1951 0.1922

Jupiter 90985-04-10 16:05 G 34952749.05 34952749.17 34952749.30 0.0513 0.0082

Mars 90987-12-03 18:29 G 34953716.24 34953716.27 34953716.30 0.1586 0.1521

Venus 90988-01-20 06:00 G 34953763.59 34953763.75 34953763.90 0.3752 0.0867

Mars 90989-11-07 19:12 G 34954421.19 34954421.30 34954421.42 0.1587 0.0177

Earth 90990-10-28 09:36 G 34954775.80 34954775.90 34954776.01 0.2630 0.1095

Moon 90990-10-28 10:19 G 34954775.82 34954775.93 34954776.03 0.2624 0.1104 *

Jupiter 90991-06-06 11:46 G 34954996.83 34954996.99 34954997.16 0.0513 0.0224

Mars 90991-10-13 20:53 G 34955126.30 34955126.37 34955126.45 0.1591 0.1243

Saturn 90993-11-03 23:17 G 34955878.38 34955878.47 34955878.57 0.0295 0.0248

Saturn 90994-02-01 00:58 G 34955967.36 34955967.54 34955967.72 0.0296 0.0029

Saturn 90994-05-01 02:10 G 34956056.46 34956056.59 34956056.74 0.0297 0.0190

Venus 90996-05-07 19:41 G 34956794.26 34956794.32 34956794.38 0.3623 0.2805

Jupiter 90997-01-27 20:10 G 34957059.23 34957059.34 34957059.45 0.0514 0.0259

Jupiter 90997-04-27 00:43 G 34957148.46 34957148.53 34957148.61 0.0512 0.0416

Mars 90999-03-31 06:58 G 34957851.68 34957851.79 34957851.91 0.1586 0.0503

92ND MILLENNIUM CE

This is a list of transits of Mercury in the 92nd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Mars 91001-03-06 08:24 G 34958556.75 34958556.85 34958556.95 0.1589 0.0893

Moon 91001-04-28 00:58 G 34958609.40 34958609.54 34958609.67 0.2695 0.1405

Earth 91001-04-28 01:26 G 34958609.43 34958609.56 34958609.69 0.2702 0.1372 *

Venus 91001-11-22 10:34 G 34958817.84 34958817.94 34958818.04 0.3622 0.0782

Jupiter 91003-03-26 08:24 G 34959306.78 34959306.85 34959306.91 0.0512 0.0474

Moon 91003-11-01 03:36 G 34959526.62 34959526.65 34959526.68 0.2623 0.2536

Earth 91003-11-01 03:36 G 34959526.62 34959526.65 34959526.68 0.2629 0.2493 *

Mars 91003-12-18 13:41 G 34959573.92 34959574.07 34959574.23 0.1949 0.0728

Uranus 91004-06-09 01:12 G 34959747.45 34959747.55 34959747.66 0.0135 0.0111

Uranus 91004-09-05 08:24 G 34959835.70 34959835.85 34959836.00 0.0135 0.0084

Uranus 91004-12-02 15:22 G 34959923.98 34959924.14 34959924.32 0.0135 0.0058

Uranus 91005-02-28 22:48 G 34960012.26 34960012.45 34960012.64 0.0135 0.0031

Uranus	91005-05-28 06:00 G	34960100.55	34960100.75	34960100.94	0.0135	0.0005
Uranus	91005-08-24 12:58 G	34960188.85	34960189.04	34960189.23	0.0135	0.0022
Uranus	91005-11-20 19:55 G	34960277.16	34960277.33	34960277.51	0.0135	0.0049
Uranus	91006-02-17 02:53 G	34960365.47	34960365.62	34960365.78	0.0135	0.0075
Uranus	91006-05-16 09:50 G	34960453.79	34960453.91	34960454.04	0.0135	0.0101
Uranus	91006-08-12 16:34 G	34960542.14	34960542.19	34960542.26	0.0135	0.0127
Saturn	91007-03-13 06:14 G	34960754.71	34960754.76	34960754.81	0.0268	0.0247
Venus	91007-06-08 01:26 G	34960841.47	34960841.56	34960841.66	0.3621	0.1252
Saturn	91007-06-09 16:19 G	34960843.07	34960843.18	34960843.30	0.0267	0.0134
Saturn	91007-09-06 02:24 G	34960931.47	34960931.60	34960931.73	0.0267	0.0023
Saturn	91007-12-03 12:29 G	34961019.90	34961020.02	34961020.15	0.0266	0.0090
Saturn	91008-02-29 22:48 G	34961108.36	34961108.45	34961108.53	0.0265	0.0201
Mars	91008-08-21 18:43 G	34961282.18	34961282.28	34961282.38	0.1586	0.0836
Jupiter	91008-11-17 00:43 G	34961369.46	34961369.53	34961369.60	0.0514	0.0428
Jupiter	91009-02-14 05:17 G	34961458.61	34961458.72	34961458.83	0.0512	0.0246
Mars	91010-07-27 19:55 G	34961987.22	34961987.33	34961987.44	0.1588	0.0550
Earth	91010-10-25 02:53 G	34962076.52	34962076.62	34962076.71	0.2631	0.1389
Moon	91010-10-25 03:22 G	34962076.55	34962076.64	34962076.74	0.2635	0.1308 *
Venus	91012-12-21 16:19 G	34962865.14	34962865.18	34962865.22	0.3620	0.3308
Mars	91013-05-09 06:00 G	34963003.59	34963003.75	34963003.91	0.1950	0.0544
Moon	91014-05-01 06:14 G	34963360.63	34963360.76	34963360.89	0.2699	0.1283
Earth	91014-05-01 07:26 G	34963360.69	34963360.81	34963360.93	0.2703	0.1549 *
Jupiter	91015-04-12 16:19 G	34963707.02	34963707.18	34963707.33	0.0513	0.0271
Pluto	91016-08-07 08:24 G	34964189.77	34964189.85	34964189.94	0.0083	0.0064
Pluto	91016-11-03 09:50 G	34964277.79	34964277.91	34964278.03	0.0083	0.0044
Pluto	91017-01-30 11:02 G	34964365.83	34964365.96	34964366.10	0.0083	0.0024
Pluto	91017-04-28 12:29 G	34964453.88	34964454.02	34964454.17	0.0083	0.0004
Pluto	91017-07-25 13:55 G	34964541.94	34964542.08	34964542.22	0.0082	0.0017
Pluto	91017-10-21 15:07 G	34964630.01	34964630.13	34964630.26	0.0082	0.0037
Mars	91018-01-12 06:43 G	34964712.70	34964712.78	34964712.85	0.1586	0.1168

Pluto 91018-01-17 16:34 G 34964718.09 34964718.19 34964718.29 0.0082 0.0056

Pluto 91018-04-15 17:46 G 34964806.20 34964806.24 34964806.30 0.0082 0.0076

Mars 91019-12-18 07:26 G 34965417.70 34965417.81 34965417.93 0.1587 0.0212

Jupiter 91020-12-03 09:50 G 34965768.78 34965768.91 34965769.04 0.0513 0.0081

Mars 91022-09-28 21:22 G 34966433.34 34966433.39 34966433.44 0.1951 0.1858

Saturn 91023-06-22 00:00 G 34966699.32 34966699.50 34966699.68 0.0295 0.0084

Saturn 91023-09-19 01:26 G 34966788.40 34966788.56 34966788.72 0.0296 0.0135

Earth 91023-10-27 20:38 G 34966827.25 34966827.36 34966827.47 0.2630 0.0020

Moon 91023-10-27 21:22 G 34966827.28 34966827.39 34966827.50 0.2628 0.0063 *

Jupiter 91027-01-29 12:43 G 34968016.85 34968017.03 34968017.21 0.0513 0.0020

Mars 91027-06-04 18:29 G 34968143.23 34968143.27 34968143.31 0.1586 0.1492

Mars 91029-05-09 19:12 G 34968848.19 34968848.30 34968848.42 0.1587 0.0144

Mars 91031-04-14 20:53 G 34969553.30 34969553.37 34969553.44 0.1590 0.1271

Jupiter 91032-09-21 14:24 G 34970078.98 34970079.10 34970079.23 0.0513 0.0085

Neptune 91033-02-06 14:10 G 34970217.03 34970217.09 34970217.18 0.0090 0.0083

Neptune 91033-05-05 17:46 G 34970305.14 34970305.24 34970305.37 0.0090 0.0072

Neptune 91033-08-01 21:36 G 34970393.26 34970393.40 34970393.54 0.0090 0.0061

Neptune 91033-10-29 01:12 G 34970481.39 34970481.55 34970481.71 0.0090 0.0050

Neptune 91034-01-25 04:19 G 34970569.53 34970569.68 34970569.87 0.0090 0.0040

Neptune 91034-04-23 08:10 G 34970657.66 34970657.84 34970658.03 0.0090 0.0029

Neptune 91034-07-20 11:46 G 34970745.80 34970745.99 34970746.18 0.0090 0.0018

Neptune 91034-10-16 15:22 G 34970833.95 34970834.14 34970834.33 0.0090 0.0007

Neptune 91035-01-12 18:43 G 34970922.09 34970922.28 34970922.47 0.0090 0.0004

Neptune 91035-04-10 22:19 G 34971010.24 34971010.43 34971010.62 0.0090 0.0015

Neptune 91035-07-08 01:41 G 34971098.39 34971098.57 34971098.76 0.0090 0.0026

Neptune 91035-10-04 05:17 G 34971186.55 34971186.72 34971186.89 0.0090 0.0036

Neptune 91035-12-31 08:38 G 34971274.70 34971274.86 34971275.03 0.0090 0.0047

Neptune 91036-03-28 11:46 G 34971362.86 34971362.99 34971363.15 0.0090 0.0058

Neptune 91036-06-24 15:36 G 34971451.03 34971451.15 34971451.27 0.0090 0.0068

Neptune 91036-09-20 18:43 G 34971539.21 34971539.28 34971539.38 0.0090 0.0079

Saturn 91036-10-26 19:26 G 34971575.20 34971575.31 34971575.41 0.0268 0.0165

Earth 91036-10-29 14:24 G 34971578.01 34971578.10 34971578.20 0.2629 0.1371

Moon 91036-10-29 14:53 G 34971578.03 34971578.12 34971578.22 0.2624 0.1494 *

Neptune 91036-12-17 22:34 G 34971627.42 34971627.44 34971627.45 0.0090 0.0089

Saturn 91037-01-23 05:31 G 34971663.60 34971663.73 34971663.86 0.0267 0.0053

Saturn 91037-04-21 15:36 G 34971752.02 34971752.15 34971752.28 0.0266 0.0059

Saturn 91037-07-19 01:41 G 34971840.47 34971840.57 34971840.67 0.0266 0.0171

Mars 91038-09-30 06:58 G 34972278.68 34972278.79 34972278.90 0.1586 0.0472

Jupiter 91038-11-17 08:38 G 34972326.70 34972326.86 34972327.02 0.0513 0.0240

Mars 91040-09-04 08:24 G 34972983.76 34972983.85 34972983.95 0.1589 0.0926

Mars 91043-06-18 14:53 G 34974000.97 34974001.12 34974001.27 0.1949 0.0815

Earth 91043-10-23 13:55 G 34974128.04 34974128.08 34974128.11 0.2632 0.2468

Moon 91043-10-23 14:10 G 34974128.06 34974128.09 34974128.12 0.2638 0.2487 *

Jupiter 91044-07-10 18:58 G 34974389.18 34974389.29 34974389.40 0.0513 0.0253

Jupiter 91044-10-07 23:31 G 34974478.41 34974478.48 34974478.55 0.0511 0.0419

Uranus 91046-09-10 10:19 G 34975180.88 34975180.93 34975180.99 0.0143 0.0127

Uranus 91046-12-07 13:55 G 34975269.00 34975269.08 34975269.17 0.0143 0.0105

Uranus 91047-03-05 17:31 G 34975357.13 34975357.23 34975357.34 0.0143 0.0083

Moon 91047-04-29 07:26 G 34975411.66 34975411.81 34975411.95 0.2695 0.0935

Earth 91047-04-29 08:10 G 34975411.69 34975411.84 34975411.98 0.2702 0.0822 *

Uranus 91047-06-01 21:07 G 34975445.26 34975445.38 34975445.50 0.0143 0.0061

Uranus 91047-08-29 00:43 G 34975533.41 34975533.53 34975533.66 0.0143 0.0039

Uranus 91047-11-25 04:19 G 34975621.55 34975621.68 34975621.82 0.0143 0.0017

Mars 91048-02-20 18:43 G 34975709.18 34975709.28 34975709.38 0.1586 0.0805

Uranus 91048-02-21 08:10 G 34975709.70 34975709.84 34975709.97 0.0143 0.0007

Uranus 91048-05-19 11:46 G 34975797.86 34975797.99 34975798.12 0.0143 0.0028

Uranus 91048-08-15 15:22 G 34975886.01 34975886.14 34975886.27 0.0143 0.0050

Uranus 91048-11-11 18:58 G 34975974.18 34975974.29 34975974.41 0.0143 0.0073

Uranus 91049-02-07 22:34 G 34976062.35 34976062.44 34976062.55 0.0143 0.0095

Uranus 91049-05-07 02:24 G 34976150.53 34976150.60 34976150.68 0.0143 0.0118

Uranus 91049-08-03 06:00 G 34976238.74 34976238.75 34976238.78 0.0143 0.0141

Mars 91050-01-25 19:55 G 34976414.22 34976414.33 34976414.44 0.1588 0.0578

Jupiter 91050-09-05 05:02 G 34976636.66 34976636.71 34976636.76 0.0512 0.0490

Mars 91052-11-07 06:43 G 34977430.62 34977430.78 34977430.94 0.1950 0.0468

Saturn 91052-11-08 00:00 G 34977431.33 34977431.50 34977431.67 0.0295 0.0131

Venus 91052-12-13 17:02 G 34977467.12 34977467.21 34977467.29 0.3622 0.2068

Saturn 91053-02-05 01:26 G 34977520.38 34977520.56 34977520.74 0.0296 0.0088

Jupiter 91056-04-28 22:48 G 34978699.39 34978699.45 34978699.52 0.0514 0.0434

Jupiter 91056-07-27 03:22 G 34978788.53 34978788.64 34978788.76 0.0512 0.0240

Earth 91056-10-25 07:41 G 34978878.72 34978878.82 34978878.92 0.2631 0.1115

Moon 91056-10-25 08:10 G 34978878.74 34978878.84 34978878.95 0.2635 0.1016 *

Mars 91057-07-13 06:43 G 34979139.70 34979139.78 34979139.86 0.1586 0.1134

Venus 91058-06-29 07:41 G 34979490.72 34979490.82 34979490.93 0.3622 0.0174

Mars 91059-06-18 07:41 G 34979844.70 34979844.82 34979844.93 0.1587 0.0240

Moon 91060-05-01 12:29 G 34980162.91 34980163.02 34980163.12 0.2701 0.1958

Earth 91060-05-01 13:55 G 34980162.99 34980163.08 34980163.17 0.2703 0.2085 *

Mars 91062-03-29 22:19 G 34980860.37 34980860.43 34980860.50 0.1951 0.1771

Jupiter 91062-09-22 13:55 G 34981036.92 34981037.08 34981037.24 0.0513 0.0268

Venus 91064-01-12 22:48 G 34981514.36 34981514.45 34981514.53 0.3621 0.2003

Saturn 91066-03-15 23:02 G 34982307.36 34982307.46 34982307.55 0.0268 0.0189

Saturn 91066-06-12 08:53 G 34982395.75 34982395.87 34982396.00 0.0267 0.0078

Saturn 91066-09-08 19:12 G 34982484.17 34982484.30 34982484.43 0.0266 0.0036

Mars 91066-12-03 18:29 G 34982570.23 34982570.27 34982570.31 0.1586 0.1466

Saturn 91066-12-06 05:17 G 34982572.61 34982572.72 34982572.83 0.0266 0.0147

Saturn 91067-03-04 15:22 G 34982661.12 34982661.14 34982661.17 0.0265 0.0259

Jupiter 91068-05-15 07:55 G 34983098.70 34983098.83 34983098.95 0.0513 0.0071

Mars 91068-11-07 19:12 G 34983275.19 34983275.30 34983275.42 0.1586 0.0114

Earth 91069-10-28 01:26 G 34983629.45 34983629.56 34983629.67 0.2630 0.0261

Moon 91069-10-28 02:10 G 34983629.48 34983629.59 34983629.70 0.2627 0.0362 *

Mars 91070-10-13 20:53 G 34983980.31 34983980.37 34983980.44 0.1590 0.1308

Jupiter 91074-07-11 09:50 G 34985346.72 34985346.91 34985347.09 0.0513 0.0015

Mars 91078-03-31 06:58 G 34986705.68 34986705.79 34986705.90 0.1586 0.0444

Jupiter 91080-03-03 12:29 G 34987408.89 34987409.02 34987409.14 0.0514 0.0098

Mars 91080-03-05 08:24 G 34987410.76 34987410.85 34987410.94 0.1589 0.0955

Saturn 91082-03-27 23:31 G 34988163.34 34988163.48 34988163.64 0.0295 0.0180

Saturn 91082-06-25 01:12 G 34988252.37 34988252.55 34988252.74 0.0296 0.0040

Saturn 91082-09-22 02:24 G 34988341.52 34988341.60 34988341.69 0.0297 0.0258

Earth 91082-10-30 19:26 G 34988380.22 34988380.31 34988380.39 0.2629 0.1652

Moon 91082-10-30 19:41 G 34988380.23 34988380.32 34988380.41 0.2624 0.1657 *

Mars 91082-12-17 15:22 G 34988427.99 34988428.14 34988428.29 0.1949 0.0872

Jupiter 91086-04-29 05:46 G 34989656.59 34989656.74 34989656.91 0.0512 0.0250

Mars 91087-08-21 18:43 G 34990136.18 34990136.28 34990136.38 0.1586 0.0774

Uranus 91088-04-02 00:43 G 34990360.50 34990360.53 34990360.57 0.0135 0.0132

Uranus 91088-06-29 07:55 G 34990448.72 34990448.83 34990448.96 0.0135 0.0105

Uranus 91088-09-25 15:07 G 34990536.98 34990537.13 34990537.29 0.0135 0.0078

Uranus 91088-12-22 22:05 G 34990625.26 34990625.42 34990625.61 0.0135 0.0052

Uranus 91089-03-21 05:31 G 34990713.54 34990713.73 34990713.92 0.0135 0.0025

Uranus 91089-06-17 12:43 G 34990801.84 34990802.03 34990802.22 0.0135 0.0002

Mars 91089-07-26 19:55 G 34990841.22 34990841.33 34990841.44 0.1588 0.0608

Uranus 91089-09-13 19:41 G 34990890.14 34990890.32 34990890.51 0.0135 0.0029

Earth 91089-10-23 18:43 G 34990930.22 34990930.28 34990930.34 0.2632 0.2201

Moon 91089-10-23 18:58 G 34990930.23 34990930.29 34990930.36 0.2638 0.2096 *

Uranus 91089-12-11 02:38 G 34990978.44 34990978.61 34990978.79 0.0135 0.0055

Uranus 91090-03-09 09:36 G 34991066.76 34991066.90 34991067.06 0.0135 0.0081

Uranus 91090-06-05 16:34 G 34991155.08 34991155.19 34991155.31 0.0135 0.0107

Uranus 91090-09-01 23:31 G 34991243.46 34991243.48 34991243.51 0.0135 0.0133

Jupiter 91091-12-21 17:02 G 34991719.10 34991719.21 34991719.32 0.0514 0.0261

Jupiter 91092-03-19 21:36 G 34991808.33 34991808.40 34991808.48 0.0511 0.0412

Mars 91092-05-08 07:41 G 34991857.66 34991857.82 34991857.98 0.1951 0.0390

Moon 91093-04-29 13:41 G 34992213.92 34992214.07 34992214.22 0.2696 0.0376

Earth 91093-04-29 14:24 G 34992213.95 34992214.10 34992214.26 0.2702 0.0279 *

Saturn 91095-08-03 02:10 G 34993039.51 34993039.59 34993039.66 0.0268 0.0218

Venus 91095-09-17 23:02 G 34993085.34 34993085.46 34993085.59 0.3751 0.2449

Saturn 91095-10-30 12:14 G 34993127.89 34993128.01 34993128.13 0.0267 0.0106

Saturn 91096-01-26 22:19 G 34993216.30 34993216.43 34993216.56 0.0267 0.0007

Saturn 91096-04-24 08:24 G 34993304.73 34993304.85 34993304.97 0.0266 0.0119

Saturn 91096-07-21 18:29 G 34993393.21 34993393.27 34993393.34 0.0265 0.0230

Mars 91097-01-11 06:29 G 34993566.69 34993566.77 34993566.86 0.1586 0.1108

Jupiter 91098-05-16 13:41 G 34994057.03 34994057.07 34994057.12 0.0514 0.0496

Mars 91098-12-17 07:41 G 34994271.70 34994271.82 34994271.93 0.1587 0.0272

Mars 91101-09-28 23:31 G 34995287.40 34995287.48 34995287.56 0.1951 0.1681

Earth 91102-10-27 12:29 G 34995680.91 34995681.02 34995681.13 0.2631 0.0842

Moon 91102-10-27 13:12 G 34995680.94 34995681.05 34995681.15 0.2633 0.0792 *

Jupiter 91103-10-10 21:36 G 34996029.33 34996029.40 34996029.47 0.0514 0.0429

Venus 91104-01-05 23:17 G 34996116.44 34996116.47 34996116.51 0.3623 0.3341

Jupiter 91104-01-08 01:55 G 34996118.47 34996118.58 34996118.70 0.0512 0.0244

Moon 91106-05-03 18:43 G 34996965.21 34996965.28 34996965.35 0.2702 0.2357

Earth 91106-05-03 20:24 G 34996965.31 34996965.35 34996965.38 0.2703 0.2618 *

Mars 91106-06-04 18:29 G 34996997.22 34996997.27 34996997.31 0.1586 0.1433

Mars 91108-05-09 19:12 G 34997702.18 34997702.30 34997702.42 0.1587 0.0080

Venus 91109-07-21 14:10 G 34998140.00 34998140.09 34998140.18 0.3622 0.1331

Jupiter 91110-03-05 10:34 G 34998366.78 34998366.94 34998367.10 0.0514 0.0248

Mars 91110-04-14 20:53 G 34998407.31 34998407.37 34998407.43 0.1590 0.1339

Saturn 91111-08-15 23:31 G 34998895.36 34998895.48 34998895.60 0.0295 0.0227

Saturn 91111-11-13 01:12 G 34998984.36 34998984.55 34998984.73 0.0296 0.0008

Saturn 91112-02-10 02:24 G 34999073.48 34999073.60 34999073.73 0.0297 0.0211

Neptune 91114-02-18 10:34 G 34999812.92 34999812.94 34999812.96 0.0088 0.0086

Neptune 91114-05-17 11:46 G 34999900.94 34999900.99 34999901.05 0.0088 0.0079

Neptune 91114-08-13 12:58 G 34999988.97 34999989.04 34999989.12 0.0088 0.0072

Neptune 91114-11-09 14:24 G 35000077.01 35000077.10 35000077.19 0.0088 0.0065

Venus 91115-02-04 05:02 G 35000163.61 35000163.71 35000163.81 0.3621 0.0702

Neptune 91115-02-05 15:36 G 35000165.06 35000165.15 35000165.25 0.0088 0.0058

Neptune 91115-05-04 17:02 G 35000253.10 35000253.21 35000253.32 0.0088 0.0051

Neptune 91115-07-31 18:14 G 35000341.15 35000341.26 35000341.38 0.0088 0.0044

Jupiter 91115-10-27 06:00 G 35000428.62 35000428.75 35000428.88 0.0513 0.0062

Neptune 91115-10-27 19:26 G 35000429.20 35000429.31 35000429.44 0.0088 0.0037

Earth 91115-10-30 06:14 G 35000431.65 35000431.76 35000431.87 0.2630 0.0536

Moon 91115-10-30 06:58 G 35000431.68 35000431.79 35000431.90 0.2627 0.0640 *

Neptune 91116-01-23 20:53 G 35000517.25 35000517.37 35000517.50 0.0088 0.0030

Neptune 91116-04-20 22:19 G 35000605.30 35000605.43 35000605.56 0.0088 0.0022

Neptune 91116-07-17 23:31 G 35000693.35 35000693.48 35000693.62 0.0088 0.0016

Neptune 91116-10-14 00:58 G 35000781.41 35000781.54 35000781.67 0.0088 0.0008

Neptune 91117-01-10 02:24 G 35000869.46 35000869.60 35000869.73 0.0088 0.0003

Neptune 91117-04-08 03:36 G 35000957.52 35000957.65 35000957.79 0.0088 0.0006

Neptune 91117-07-05 04:48 G 35001045.57 35001045.70 35001045.84 0.0088 0.0014

Mars 91117-09-30 06:58 G 35001132.68 35001132.79 35001132.90 0.1586 0.0409

Neptune 91117-10-01 06:14 G 35001133.63 35001133.76 35001133.89 0.0088 0.0021

Neptune 91117-12-28 07:41 G 35001221.69 35001221.82 35001221.95 0.0088 0.0028

Neptune 91118-03-26 09:07 G 35001309.75 35001309.88 35001310.00 0.0088 0.0035

Neptune 91118-06-22 10:05 G 35001397.81 35001397.92 35001398.05 0.0088 0.0043

Neptune 91118-09-18 11:31 G 35001485.88 35001485.98 35001486.10 0.0088 0.0050

Neptune 91118-12-15 12:58 G 35001573.94 35001574.04 35001574.15 0.0088 0.0057

Neptune 91119-03-13 14:24 G 35001662.01 35001662.10 35001662.20 0.0088 0.0064

Neptune 91119-06-09 15:36 G 35001750.08 35001750.15 35001750.24 0.0088 0.0072

Mars 91119-09-05 08:24 G 35001837.76 35001837.85 35001837.94 0.1589 0.0988

Neptune 91119-09-05 17:02 G 35001838.16 35001838.21 35001838.28 0.0088 0.0079

Neptune 91119-12-02 18:29 G 35001926.25 35001926.27 35001926.30 0.0088 0.0086

Venus 91120-08-19 19:55 G 35002187.27 35002187.33 35002187.40 0.3620 0.2741

Jupiter 91121-12-22 07:12 G 35002676.61 35002676.80 35002676.98 0.0513 0.0008

Mars 91122-06-18 16:19 G 35002855.04 35002855.18 35002855.33 0.1949 0.0962

Saturn 91124-12-21 05:46 G 35003771.69 35003771.74 35003771.80 0.0268 0.0241

Saturn 91125-03-19 15:50 G 35003860.05 35003860.16 35003860.28 0.0267 0.0129

Saturn 91125-06-16 01:55 G 35003948.45 35003948.58 35003948.72 0.0267 0.0017

Saturn 91125-09-12 12:00 G 35004036.88 35004037.00 35004037.13 0.0266 0.0096

Saturn 91125-12-09 22:19 G 35004125.35 35004125.43 35004125.51 0.0265 0.0207

Earth 91126-04-28 14:53 G 35004265.11 35004265.12 35004265.13 0.2701 0.2691

Mars 91127-02-20 18:43 G 35004563.18 35004563.28 35004563.38 0.1586 0.0745

Jupiter 91127-08-15 10:19 G 35004738.80 35004738.93 35004739.05 0.0513 0.0111

Earth 91128-11-01 00:14 G 35005182.43 35005182.51 35005182.58 0.2629 0.1933

Moon 91128-11-01 00:29 G 35005182.44 35005182.52 35005182.59 0.2623 0.1972 *

Mars 91129-01-25 19:55 G 35005268.22 35005268.33 35005268.44 0.1588 0.0642

Uranus 91130-07-05 14:10 G 35005794.09 35005794.09 35005794.11 0.0143 0.0142

Uranus 91130-10-01 17:46 G 35005882.18 35005882.24 35005882.32 0.0143 0.0120

Uranus 91130-12-28 21:22 G 35005970.30 35005970.39 35005970.49 0.0143 0.0099

Uranus 91131-03-27 01:12 G 35006058.44 35006058.55 35006058.66 0.0143 0.0076

Uranus 91131-06-23 04:48 G 35006146.57 35006146.70 35006146.82 0.0143 0.0054

Uranus 91131-09-19 08:24 G 35006234.72 35006234.85 35006234.98 0.0143 0.0032

Mars 91131-11-08 08:38 G 35006284.69 35006284.86 35006285.02 0.1950 0.0310

Uranus 91131-12-16 12:00 G 35006322.86 35006323.00 35006323.13 0.0143 0.0010

Uranus 91132-03-13 15:36 G 35006411.02 35006411.15 35006411.28 0.0143 0.0012

Uranus 91132-06-09 19:12 G 35006499.17 35006499.30 35006499.43 0.0143 0.0035

Uranus 91132-09-05 22:48 G 35006587.33 35006587.45 35006587.58 0.0143 0.0057

Uranus 91132-12-03 02:24 G 35006675.50 35006675.60 35006675.72 0.0143 0.0080

Uranus 91133-03-01 06:00 G 35006763.67 35006763.75 35006763.86 0.0143 0.0103

Uranus 91133-05-28 09:50 G 35006851.85 35006851.91 35006851.98 0.0143 0.0125

Jupiter 91133-10-10 02:53 G 35006986.46 35006986.62 35006986.78 0.0512 0.0262

Earth 91135-10-25 23:31 G 35007732.41 35007732.48 35007732.55 0.2631 0.1930

Moon 91135-10-26 00:00 G 35007732.42 35007732.50 35007732.57 0.2637 0.1947 *

Mars 91136-07-13 06:29 G 35007993.69 35007993.77 35007993.86 0.1586 0.1077

Mars 91138-06-18 07:26 G 35008698.70 35008698.81 35008698.93 0.1587 0.0298

Moon 91139-05-01 19:55 G 35009016.18 35009016.33 35009016.49 0.2698 0.0186

Earth 91139-05-01 21:07 G 35009016.23 35009016.38 35009016.53 0.2703 0.0288 *

Jupiter 91139-06-03 14:53 G 35009049.01 35009049.12 35009049.23 0.0514 0.0277

Jupiter 91139-08-31 19:26 G 35009138.23 35009138.31 35009138.39 0.0512 0.0398

Saturn 91141-01-01 23:17 G 35009627.42 35009627.47 35009627.54 0.0295 0.0275

Mars 91141-03-30 00:00 G 35009714.41 35009714.50 35009714.59 0.1951 0.1625

Saturn 91141-04-01 00:58 G 35009716.36 35009716.54 35009716.73 0.0296 0.0056

Saturn 91141-06-29 02:24 G 35009805.45 35009805.60 35009805.76 0.0297 0.0164

Jupiter 91145-10-27 10:48 G 35011386.90 35011386.95 35011387.01 0.0514 0.0486

Mars 91145-12-03 18:29 G 35011424.21 35011424.27 35011424.32 0.1586 0.1405

Mars 91147-11-08 19:12 G 35012129.18 35012129.30 35012129.42 0.1587 0.0047

Earth 91148-10-27 17:17 G 35012483.11 35012483.22 35012483.33 0.2631 0.0571

Moon 91148-10-27 18:00 G 35012483.14 35012483.25 35012483.36 0.2631 0.0413 *

Mars 91149-10-13 20:53 G 35012834.31 35012834.37 35012834.43 0.1590 0.1367

Jupiter 91151-03-22 19:41 G 35013359.25 35013359.32 35013359.38 0.0514 0.0439

Jupiter 91151-06-20 00:00 G 35013448.39 35013448.50 35013448.62 0.0512 0.0235

Venus 91152-04-25 02:10 G 35013758.43 35013758.59 35013758.75 0.3752 0.0485

Saturn 91154-08-06 19:12 G 35014592.19 35014592.30 35014592.41 0.0268 0.0156

Saturn 91154-11-03 05:17 G 35014680.59 35014680.72 35014680.85 0.0267 0.0044

Saturn 91155-01-30 15:22 G 35014769.01 35014769.14 35014769.27 0.0266 0.0068

Saturn 91155-04-29 01:26 G 35014857.46 35014857.56 35014857.66 0.0265 0.0180

Mars 91157-03-31 06:58 G 35015559.67 35015559.79 35015559.90 0.1586 0.0380

Jupiter 91157-08-15 06:43 G 35015696.62 35015696.78 35015696.95 0.0514 0.0226

Mars 91159-03-06 08:24 G 35016264.76 35016264.85 35016264.94 0.1589 0.1020

Venus 91160-08-11 20:38 G 35016789.29 35016789.36 35016789.42 0.3622 0.2613

Earth 91161-10-30 11:02 G 35017233.86 35017233.96 35017234.07 0.2630 0.0815

Moon 91161-10-30 11:46 G 35017233.88 35017233.99 35017234.10 0.2627 0.0882 *

Mars 91161-12-17 17:17 G 35017282.09 35017282.22 35017282.36 0.1949 0.1044

Jupiter 91163-04-08 04:34 G 35017758.56 35017758.69 35017758.82 0.0513 0.0066

Venus 91166-02-25 11:31 G 35018812.88 35018812.98 35018813.08 0.3622 0.0606

Mars 91166-08-21 18:43 G 35018990.18 35018990.28 35018990.38 0.1586 0.0714

Mars 91168-07-26 19:55 G 35019695.22 35019695.33 35019695.44 0.1588 0.0672

Jupiter 91169-06-03 03:36 G 35020006.47 35020006.65 35020006.83 0.0513 0.0022

Pluto 91170-03-02 13:55 G 35020279.02 35020279.08 35020279.17 0.0061 0.0055

Pluto 91170-05-29 14:53 G 35020367.02 35020367.12 35020367.26 0.0061 0.0045

Saturn 91170-08-19 00:43 G 35020448.36 35020448.53 35020448.70 0.0295 0.0104

Pluto 91170-08-25 16:19 G 35020455.04 35020455.18 35020455.34 0.0061 0.0035

Saturn 91170-11-16 02:10 G 35020537.42 35020537.59 35020537.76 0.0296 0.0115

Pluto 91170-11-21 17:31 G 35020543.07 35020543.23 35020543.40 0.0061 0.0024

Pluto 91171-02-17 18:29 G 35020631.10 35020631.27 35020631.46 0.0062 0.0014

Mars 91171-05-09 09:22 G 35020711.73 35020711.89 35020712.06 0.1950 0.0232

Pluto 91171-05-16 19:55 G 35020719.15 35020719.33 35020719.51 0.0062 0.0003

Pluto 91171-08-12 20:53 G 35020807.20 35020807.37 35020807.55 0.0062 0.0008

Venus 91171-09-11 02:24 G 35020836.50 35020836.60 35020836.69 0.3621 0.1451

Pluto 91171-11-08 21:50 G 35020895.25 35020895.41 35020895.59 0.0062 0.0019

Pluto 91172-02-04 23:02 G 35020983.31 35020983.46 35020983.63 0.0062 0.0029

Uranus 91172-04-23 07:26 G 35021061.75 35021061.81 35021061.89 0.0135 0.0126

Moon 91172-04-28 21:07 G 35021067.28 35021067.38 35021067.48 0.2694 0.2047

Earth 91172-04-28 21:22 G 35021067.30 35021067.39 35021067.48 0.2701 0.2133 *

Pluto 91172-05-02 23:46 G 35021071.38 35021071.49 35021071.65 0.0062 0.0040

Uranus 91172-07-20 14:38 G 35021149.99 35021150.11 35021150.25 0.0135 0.0099

Pluto 91172-07-30 01:12 G 35021159.46 35021159.55 35021159.66 0.0062 0.0050

Uranus 91172-10-16 21:50 G 35021238.26 35021238.41 35021238.58 0.0135 0.0072

Pluto 91172-10-26 02:10 G 35021247.58 35021247.59 35021247.64 0.0062 0.0061

Uranus 91173-01-13 05:17 G 35021326.54 35021326.72 35021326.90 0.0135 0.0045

Uranus 91173-04-11 12:14 G 35021414.83 35021415.01 35021415.20 0.0135 0.0019

Uranus 91173-07-08 19:26 G 35021503.12 35021503.31 35021503.50 0.0135 0.0008

Uranus 91173-10-05 02:24 G 35021591.42 35021591.60 35021591.79 0.0135 0.0035

Uranus 91174-01-01 09:22 G 35021679.73 35021679.89 35021680.07 0.0135 0.0061

Uranus 91174-03-30 16:19 G 35021768.04 35021768.18 35021768.33 0.0135 0.0087

Uranus 91174-06-26 23:17 G 35021856.38 35021856.47 35021856.58 0.0135 0.0113

Earth 91174-11-02 05:02 G 35021984.65 35021984.71 35021984.77 0.2629 0.2215

Moon 91174-11-02 05:17 G 35021984.66 35021984.72 35021984.77 0.2622 0.2223 *

Jupiter 91175-01-25 08:24 G 35022068.73 35022068.85 35022068.98 0.0513 0.0118

Mars 91176-01-12 06:29 G 35022420.69 35022420.77 35022420.86 0.1586 0.1046

Venus 91177-03-26 17:17 G 35022860.20 35022860.22 35022860.24 0.3620 0.3491

Mars 91177-12-17 07:41 G 35023125.70 35023125.82 35023125.93 0.1587 0.0335

Mars 91180-09-28 01:12 G 35024141.45 35024141.55 35024141.65 0.1951 0.1529

Jupiter 91181-03-22 00:14 G 35024316.36 35024316.51 35024316.67 0.0512 0.0268

Earth 91181-10-26 04:19 G 35024534.60 35024534.68 35024534.77 0.2631 0.1658

Moon 91181-10-26 04:48 G 35024534.61 35024534.70 35024534.79 0.2637 0.1538 *

Saturn 91183-12-24 22:48 G 35025324.36 35025324.45 35025324.55 0.0268 0.0179

Saturn 91184-03-22 08:53 G 35025412.74 35025412.87 35025413.00 0.0267 0.0067

Saturn 91184-06-18 18:58 G 35025501.16 35025501.29 35025501.42 0.0266 0.0045

Saturn 91184-09-15 05:02 G 35025589.61 35025589.71 35025589.82 0.0265 0.0157

Moon 91185-05-02 02:10 G 35025818.44 35025818.59 35025818.74 0.2699 0.0574

Earth 91185-05-02 03:36 G 35025818.50 35025818.65 35025818.79 0.2703 0.0831 *

Mars 91185-06-03 18:14 G 35025851.21 35025851.26 35025851.32 0.1586 0.1377

Jupiter 91186-11-13 12:43 G 35026378.93 35026379.03 35026379.14 0.0514 0.0290

Jupiter 91187-02-10 17:17 G 35026468.14 35026468.22 35026468.31 0.0512 0.0385

Mars 91187-05-09 19:12 G 35026556.18 35026556.30 35026556.42 0.1586 0.0018

Mars 91189-04-13 20:53 G 35027261.32 35027261.37 35027261.43 0.1590 0.1404

Jupiter 91193-04-08 08:10 G 35028716.78 35028716.84 35028716.91 0.0513 0.0475

Earth 91194-10-28 22:05 G 35029285.31 35029285.42 35029285.53 0.2631 0.0296

Moon 91194-10-28 22:48 G 35029285.34 35029285.45 35029285.57 0.2630 0.0266 *

Mars 91196-09-29 06:58 G 35029986.67 35029986.79 35029986.90 0.1586 0.0355

Neptune 91197-08-08 09:22 G 35030299.87 35030299.89 35030299.94 0.0090 0.0088

Neptune 91197-11-04 13:12 G 35030387.96 35030388.05 35030388.15 0.0090 0.0077

Neptune 91198-01-31 16:48 G 35030476.08 35030476.20 35030476.33 0.0090 0.0066

Neptune 91198-04-29 20:24 G 35030564.20 35030564.35 35030564.50 0.0090 0.0055

Neptune 91198-07-26 23:46 G 35030652.34 35030652.49 35030652.67 0.0090 0.0045

Jupiter 91198-09-01 17:17 G 35030689.17 35030689.22 35030689.28 0.0515 0.0457

Mars 91198-09-04 08:24 G 35030691.76 35030691.85 35030691.94 0.1589 0.1050

Neptune 91198-10-23 03:22 G 35030740.47 35030740.64 35030740.83 0.0090 0.0034

Jupiter 91198-11-29 21:50 G 35030778.30 35030778.41 35030778.53 0.0513 0.0218

Neptune 91199-01-19 06:58 G 35030828.61 35030828.79 35030828.98 0.0090 0.0023

Neptune 91199-04-17 10:34 G 35030916.75 35030916.94 35030917.13 0.0090 0.0012

Neptune 91199-07-14 14:10 G 35031004.90 35031005.09 35031005.28 0.0090 0.0001

Neptune 91199-10-10 17:31 G 35031093.05 35031093.23 35031093.42 0.0090 0.0010

Saturn 91200-01-06 00:29 G 35031180.36 35031180.52 35031180.68 0.0295 0.0153

Neptune 91200-01-06 21:07 G 35031181.20 35031181.38 35031181.57 0.0090 0.0021

Neptune 91200-04-04 00:29 G 35031269.35 35031269.52 35031269.70 0.0090 0.0031

Saturn 91200-04-04 01:55 G 35031269.41 35031269.58 35031269.77 0.0296 0.0068 *

Neptune 91200-07-01 04:05 G 35031357.51 35031357.67 35031357.84 0.0090 0.0042

Saturn 91200-07-02 03:22 G 35031358.59 35031358.64 35031358.69 0.0297 0.0286

Neptune 91200-09-27 07:12 G 35031445.66 35031445.80 35031445.97 0.0090 0.0053

Neptune 91200-12-24 10:34 G 35031533.83 35031533.94 35031534.09 0.0090 0.0064

Neptune 91201-03-22 14:10 G 35031622.00 35031622.09 35031622.21 0.0090 0.0074

Mars 91201-06-17 18:00 G 35031709.11 35031709.25 35031709.38 0.1949 0.1106

Neptune 91201-06-18 17:31 G 35031710.19 35031710.23 35031710.31 0.0090 0.0085

Jupiter 91205-01-25 04:19 G 35033026.52 35033026.68 35033026.85 0.0513 0.0221

Mars 91206-02-19 18:43 G 35033417.17 35033417.28 35033417.38 0.1586 0.0684

Earth 91207-10-31 15:50 G 35034036.06 35034036.16 35034036.27 0.2630 0.1093

Moon 91207-10-31 16:34 G 35034036.09 35034036.19 35034036.29 0.2626 0.1204 *

Mars 91208-01-25 19:55 G 35034122.22 35034122.33 35034122.43 0.1588 0.0702

Venus 91208-11-30 05:17 G 35034431.66 35034431.72 35034431.79 0.3752 0.3416

Jupiter 91210-09-18 02:38 G 35035088.48 35035088.61 35035088.74 0.0513 0.0056

Mars 91210-11-07 10:19 G 35035138.76 35035138.93 35035139.09 0.1951 0.0158

Saturn 91213-05-13 02:10 G 35036056.51 35036056.59 35036056.67 0.0268 0.0207

Saturn 91213-08-09 12:14 G 35036144.88 35036145.01 35036145.13 0.0267 0.0095

Saturn 91213-11-05 22:19 G 35036233.29 35036233.43 35036233.56 0.0266 0.0019

Saturn 91214-02-02 08:10 G 35036321.73 35036321.84 35036321.96 0.0266 0.0129

Saturn 91214-05-01 18:29 G 35036410.21 35036410.27 35036410.32 0.0265 0.0240

Uranus 91214-07-25 21:36 G 35036495.37 35036495.40 35036495.44 0.0143 0.0136

Uranus 91214-10-22 01:12 G 35036583.47 35036583.55 35036583.63 0.0143 0.0114

Uranus 91215-01-18 04:48 G 35036671.60 35036671.70 35036671.80 0.0143 0.0093

Uranus 91215-04-16 08:24 G 35036759.74 35036759.85 35036759.97 0.0143 0.0071

Mars 91215-07-13 06:29 G 35036847.68 35036847.77 35036847.86 0.1586 0.1016

Uranus 91215-07-13 12:00 G 35036847.88 35036848.00 35036848.13 0.0143 0.0049

Uranus 91215-10-09 15:36 G 35036936.02 35036936.15 35036936.28 0.0143 0.0027

Uranus 91216-01-05 19:12 G 35037024.17 35037024.30 35037024.44 0.0143 0.0006

Uranus 91216-04-02 22:48 G 35037112.32 35037112.45 35037112.59 0.0143 0.0019

Uranus 91216-06-30 02:38 G 35037200.48 35037200.61 35037200.74 0.0143 0.0040

Uranus 91216-09-26 06:14 G 35037288.64 35037288.76 35037288.88 0.0143 0.0063

Jupiter 91216-11-13 00:14 G 35037336.33 35037336.51 35037336.69 0.0513 0.0042

Uranus 91216-12-23 09:50 G 35037376.81 35037376.91 35037377.02 0.0143 0.0085

Venus 91217-03-18 17:46 G 35037462.16 35037462.24 35037462.33 0.3622 0.1870

Uranus 91217-03-21 13:41 G 35037464.98 35037465.07 35037465.16 0.0144 0.0108

Mars 91217-06-17 07:26 G 35037552.70 35037552.81 35037552.93 0.1587 0.0365

Uranus 91217-06-17 17:17 G 35037553.17 35037553.22 35037553.28 0.0144 0.0131

Moon 91218-04-30 03:36 G 35037869.53 35037869.65 35037869.76 0.2695 0.1724

Earth 91218-04-30 03:50 G 35037869.54 35037869.66 35037869.79 0.2702 0.1574 *

Mars 91220-03-29 02:10 G 35038568.48 35038568.59 35038568.70 0.1951 0.1447

Moon 91220-11-02 10:05 G 35038786.88 35038786.92 35038786.95 0.2622 0.2481

Earth 91220-11-02 09:50 G 35038786.88 35038786.91 35038786.95 0.2629 0.2500 *

Jupiter 91222-07-07 07:12 G 35039398.68 35039398.80 35039398.93 0.0513 0.0111

Venus 91222-10-02 08:38 G 35039485.76 35039485.86 35039485.96 0.3621 0.0178

Mars 91224-12-02 18:14 G 35040278.20 35040278.26 35040278.32 0.1586 0.1345

Mars 91226-11-07 19:12 G 35040983.18 35040983.30 35040983.42 0.1586 0.0021

Earth 91227-10-27 09:07 G 35041336.79 35041336.88 35041336.98 0.2631 0.1386

Moon 91227-10-27 09:50 G 35041336.81 35041336.91 35041337.00 0.2635 0.1358 *

Venus 91228-04-16 23:31 G 35041509.40 35041509.48 35041509.56 0.3621 0.2198

Jupiter 91228-08-31 20:53 G 35041646.22 35041646.37 35041646.52 0.0512 0.0288

Mars 91228-10-12 20:53 G 35041688.32 35041688.37 35041688.42 0.1590 0.1435

Saturn 91229-05-24 23:02 G 35041912.34 35041912.46 35041912.60 0.0295 0.0210

Saturn 91229-08-22 00:43 G 35042001.35 35042001.53 35042001.72 0.0296 0.0011

Saturn 91229-11-19 01:55 G 35042090.47 35042090.58 35042090.70 0.0297 0.0230

Moon 91231-05-03 08:38 G 35042620.72 35042620.86 35042620.99 0.2699 0.1282

Earth 91231-05-03 10:05 G 35042620.79 35042620.92 35042621.05 0.2703 0.1377 *

Jupiter 91234-04-25 11:02 G 35043708.86 35043708.96 35043709.06 0.0514 0.0295

Jupiter 91234-07-23 15:36 G 35043798.06 35043798.15 35043798.23 0.0512 0.0379

Mars 91236-03-30 06:58 G 35044413.67 35044413.79 35044413.90 0.1586 0.0319

Mars 91238-03-05 08:24 G 35045118.76 35045118.85 35045118.94 0.1589 0.1083

Jupiter 91240-09-18 06:00 G 35046046.68 35046046.75 35046046.82 0.0514 0.0475

Earth 91240-10-29 02:53 G 35046087.51 35046087.62 35046087.74 0.2630 0.0067

Moon 91240-10-29 03:36 G 35046087.54 35046087.65 35046087.77 0.2630 0.0181 *

Mars 91240-12-16 18:43 G 35046136.16 35046136.28 35046136.41 0.1949 0.1189

Saturn 91242-09-30 05:46 G 35046788.68 35046788.74 35046788.80 0.0268 0.0231

Saturn 91242-12-27 15:36 G 35046877.04 35046877.15 35046877.28 0.0267 0.0120

Saturn 91243-03-26 01:55 G 35046965.44 35046965.58 35046965.71 0.0266 0.0010

Saturn 91243-06-22 11:46 G 35047053.88 35047053.99 35047054.12 0.0266 0.0106

Saturn 91243-09-18 21:50 G 35047142.34 35047142.41 35047142.49 0.0265 0.0217

Mars 91245-08-20 18:43 G 35047844.17 35047844.28 35047844.38 0.1586 0.0655

Jupiter 91246-02-11 15:22 G 35048019.09 35048019.14 35048019.20 0.0515 0.0466

Jupiter 91246-05-11 19:55 G 35048108.21 35048108.33 35048108.45 0.0513 0.0208

Mars 91247-07-26 19:55 G 35048549.23 35048549.33 35048549.43 0.1588 0.0737

Mars 91250-05-08 11:17 G 35049565.80 35049565.97 35049566.13 0.1950 0.0082

Jupiter 91252-07-07 01:55 G 35050356.42 35050356.58 35050356.75 0.0513 0.0218

Earth 91253-10-31 20:53 G 35050838.27 35050838.37 35050838.46 0.2630 0.1376

Moon 91253-10-31 21:07 G 35050838.29 35050838.38 35050838.48 0.2624 0.1374 *

Mars 91255-01-11 06:29 G 35051274.68 35051274.77 35051274.86 0.1586 0.0987

Uranus 91256-05-13 14:53 G 35051763.03 35051763.12 35051763.21 0.0135 0.0118

Uranus 91256-08-09 21:50 G 35051851.28 35051851.41 35051851.56 0.0135 0.0092

Uranus 91256-11-06 05:02 G 35051939.55 35051939.71 35051939.89 0.0135 0.0065

Mars 91256-12-16 07:26 G 35051979.70 35051979.81 35051979.93 0.1587 0.0390

Uranus 91257-02-02 12:14 G 35052027.83 35052028.01 35052028.20 0.0135 0.0038

Uranus 91257-05-01 19:26 G 35052116.12 35052116.31 35052116.50 0.0135 0.0011

Uranus 91257-07-29 02:24 G 35052204.42 35052204.60 35052204.80 0.0135 0.0016

Uranus 91257-10-25 09:22 G 35052292.72 35052292.89 35052293.08 0.0135 0.0042

Uranus 91258-01-21 16:19 G 35052381.03 35052381.18 35052381.36 0.0135 0.0068

Jupiter 91258-02-28 00:29 G 35052418.39 35052418.52 35052418.65 0.0513 0.0041

Uranus 91258-04-19 23:17 G 35052469.35 35052469.47 35052469.62 0.0135 0.0094

Uranus 91258-07-17 06:14 G 35052557.69 35052557.76 35052557.85 0.0135 0.0120

Saturn 91258-10-11 22:34 G 35052644.36 35052644.44 35052644.52 0.0295 0.0262

Saturn 91259-01-09 00:14 G 35052733.33 35052733.51 35052733.69 0.0296 0.0042

Saturn 91259-04-08 01:41 G 35052822.42 35052822.57 35052822.72 0.0297 0.0178

Mars 91259-09-28 02:38 G 35052995.49 35052995.61 35052995.73 0.1951 0.1383

Venus 91259-12-21 19:12 G 35053080.20 35053080.30 35053080.40 0.3751 0.2871

Earth 91260-10-24 20:24 G 35053388.31 35053388.35 35053388.38 0.2632 0.2468

Moon 91260-10-24 20:24 G 35053388.32 35053388.35 35053388.39 0.2639 0.2471 *

Pluto 91262-09-30 20:53 G 35054094.33 35054094.37 35054094.44 0.0083 0.0076

Pluto 91262-12-27 22:19 G 35054182.34 35054182.43 35054182.55 0.0083 0.0056

Pluto 91263-03-26 00:00 G 35054270.37 35054270.50 35054270.63 0.0083 0.0035

Pluto 91263-06-22 01:12 G 35054358.42 35054358.55 35054358.69 0.0083 0.0015

Pluto 91263-09-18 02:38 G 35054446.47 35054446.61 35054446.75 0.0083 0.0005

Pluto 91263-12-15 03:50 G 35054534.53 35054534.66 35054534.80 0.0082 0.0025

Pluto 91264-03-12 05:02 G 35054622.60 35054622.71 35054622.84 0.0082 0.0045

Jupiter 91264-04-24 22:05 G 35054666.24 35054666.42 35054666.61 0.0512 0.0039

Moon 91264-04-30 09:36 G 35054671.76 35054671.90 35054672.04 0.2696 0.1027

Earth 91264-04-30 10:19 G 35054671.79 35054671.93 35054672.07 0.2702 0.1021 *

Mars 91264-06-02 18:14 G 35054705.20 35054705.26 35054705.33 0.1586 0.1316

Pluto 91264-06-08 06:14 G 35054710.69 35054710.76 35054710.86 0.0082 0.0065

Mars 91266-05-08 19:12 G 35055410.18 35055410.30 35055410.42 0.1586 0.0053

Venus 91268-04-09 00:14 G 35056111.46 35056111.51 35056111.56 0.3623 0.3137

Mars 91268-04-12 20:53 G 35056115.33 35056115.37 35056115.41 0.1590 0.1463

Jupiter 91269-12-17 05:17 G 35056728.60 35056728.72 35056728.85 0.0514 0.0119

Saturn 91272-02-17 08:53 G 35057520.84 35057520.87 35057520.90 0.0268 0.0260

Saturn 91272-05-15 18:43 G 35057609.18 35057609.28 35057609.40 0.0267 0.0149

Saturn 91272-08-12 05:02 G 35057697.58 35057697.71 35057697.84 0.0266 0.0036

Saturn 91272-11-08 14:53 G 35057786.00 35057786.12 35057786.25 0.0266 0.0077

Saturn 91273-02-05 01:12 G 35057874.45 35057874.55 35057874.64 0.0265 0.0187

Venus 91273-10-23 15:07 G 35058135.03 35058135.13 35058135.22 0.3622 0.1125

Earth 91273-10-27 13:55 G 35058138.98 35058139.08 35058139.19 0.2631 0.1116

Moon 91273-10-27 14:38 G 35058139.01 35058139.11 35058139.21 0.2634 0.0987 *

Mars 91275-09-29 06:58 G 35058840.67 35058840.79 35058840.90 0.1586 0.0291

Jupiter 91276-02-11 17:46 G 35058976.10 35058976.24 35058976.40 0.0512 0.0301

Moon 91277-05-03 15:07 G 35059423.01 35059423.13 35059423.25 0.2699 0.1618

Earth 91277-05-03 16:34 G 35059423.08 35059423.19 35059423.29 0.2703 0.1919 *

Mars 91277-09-03 08:24 G 35059545.77 35059545.85 35059545.93 0.1589 0.1116

Neptune 91278-11-15 10:05 G 35059983.89 35059983.92 35059983.97 0.0088 0.0083

Neptune 91279-02-11 11:17 G 35060071.92 35060071.97 35060072.05 0.0088 0.0076

Venus 91279-05-09 06:00 G 35060158.65 35060158.75 35060158.85 0.3621 0.0906

Neptune 91279-05-10 12:43 G 35060159.96 35060160.03 35060160.12 0.0088 0.0069

Neptune 91279-08-06 13:55 G 35060248.00 35060248.08 35060248.19 0.0088 0.0062

Neptune 91279-11-02 15:22 G 35060336.04 35060336.14 35060336.25 0.0088 0.0054

Neptune 91280-01-29 16:48 G 35060424.09 35060424.20 35060424.31 0.0088 0.0047

Neptune 91280-04-26 18:14 G 35060512.14 35060512.26 35060512.37 0.0088 0.0040

Mars 91280-06-16 19:55 G 35060563.21 35060563.33 35060563.46 0.1949 0.1278

Neptune 91280-07-23 19:26 G 35060600.19 35060600.31 35060600.43 0.0088 0.0033

Neptune 91280-10-19 20:38 G 35060688.24 35060688.36 35060688.49 0.0088 0.0026

Neptune 91281-01-15 22:05 G 35060776.29 35060776.42 35060776.55 0.0088 0.0019

Neptune 91281-04-13 23:17 G 35060864.34 35060864.47 35060864.61 0.0088 0.0012

Neptune 91281-07-11 00:43 G 35060952.40 35060952.53 35060952.67 0.0088 0.0004

Jupiter 91281-10-05 09:50 G 35061038.81 35061038.91 35061039.02 0.0514 0.0285

Neptune 91281-10-07 02:10 G 35061040.45 35061040.59 35061040.72 0.0088 0.0004

Jupiter 91282-01-02 14:24 G 35061128.02 35061128.10 35061128.19 0.0512 0.0390

Neptune 91282-01-03 03:22 G 35061128.51 35061128.64 35061128.78 0.0088 0.0010

Neptune 91282-04-01 04:48 G 35061216.57 35061216.70 35061216.83 0.0088 0.0017

Neptune 91282-06-28 06:00 G 35061304.63 35061304.75 35061304.88 0.0088 0.0025

Neptune 91282-09-24 07:26 G 35061392.69 35061392.81 35061392.94 0.0088 0.0032

Neptune 91282-12-21 08:38 G 35061480.75 35061480.86 35061480.99 0.0088 0.0039

Neptune 91283-03-19 10:05 G 35061568.81 35061568.92 35061569.04 0.0088 0.0046

Neptune 91283-06-15 11:17 G 35061656.87 35061656.97 35061657.09 0.0088 0.0054

Neptune 91283-09-11 12:43 G 35061744.94 35061745.03 35061745.14 0.0088 0.0061

Neptune 91283-12-08 14:10 G 35061833.01 35061833.09 35061833.18 0.0088 0.0068

Neptune 91284-03-05 15:36 G 35061921.08 35061921.15 35061921.22 0.0088 0.0075

Neptune 91284-06-01 16:34 G 35062009.17 35062009.19 35062009.25 0.0088 0.0083

Venus 91284-11-21 20:53 G 35062182.31 35062182.37 35062182.43 0.3620 0.2942

Mars 91285-02-18 18:43 G 35062271.17 35062271.28 35062271.39 0.1586 0.0624

Earth 91286-10-30 07:41 G 35062889.71 35062889.82 35062889.94 0.2630 0.0277

Moon 91286-10-30 08:24 G 35062889.74 35062889.85 35062889.97 0.2629 0.0312 *

Mars 91287-01-24 19:55 G 35062976.23 35062976.33 35062976.43 0.1588 0.0767

Jupiter 91288-02-29 02:53 G 35063376.55 35063376.62 35063376.70 0.0514 0.0463

Saturn 91288-05-27 22:05 G 35063465.25 35063465.42 35063465.59 0.0295 0.0105

Saturn 91288-08-24 23:31 G 35063554.31 35063554.48 35063554.65 0.0296 0.0116

Mars 91289-11-06 12:00 G 35063992.83 35063993.00 35063993.16 0.1950 0.0018

Jupiter 91293-07-24 13:55 G 35065349.03 35065349.08 35065349.13 0.0515 0.0467

Jupiter 91293-10-21 18:14 G 35065438.14 35065438.26 35065438.38 0.0513 0.0206

Mars 91294-07-12 06:29 G 35065701.68 35065701.77 35065701.86 0.1585 0.0955

Mars 91296-06-16 07:26 G 35066406.70 35066406.81 35066406.93 0.1587 0.0425

Uranus 91298-08-15 04:34 G 35067196.64 35067196.69 35067196.74 0.0143 0.0132

Uranus 91298-11-11 07:55 G 35067284.76 35067284.83 35067284.92 0.0143 0.0111

Uranus 91299-02-07 11:31 G 35067372.89 35067372.98 35067373.09 0.0143 0.0089

Mars 91299-03-29 03:50 G 35067422.53 35067422.66 35067422.78 0.1951 0.1295

Uranus 91299-05-06 15:07 G 35067461.02 35067461.13 35067461.26 0.0143 0.0068

Uranus 91299-08-02 18:43 G 35067549.16 35067549.28 35067549.41 0.0143 0.0046

Uranus 91299-10-29 22:34 G 35067637.31 35067637.44 35067637.57 0.0143 0.0023

Earth 91299-11-02 01:41 G 35067640.48 35067640.57 35067640.66 0.2630 0.1657

Moon 91299-11-02 01:55 G 35067640.50 35067640.58 35067640.67 0.2623 0.1767 *

Jupiter 91299-12-18 00:14 G 35067686.34 35067686.51 35067686.67 0.0513 0.0223

Uranus 91300-01-26 02:10 G 35067725.46 35067725.59 35067725.72 0.0143 0.0002

Uranus 91300-04-24 05:46 G 35067813.61 35067813.74 35067813.88 0.0143 0.0022

Uranus 91300-07-21 09:22 G 35067901.77 35067901.89 35067902.02 0.0143 0.0045

Uranus 91300-10-17 13:12 G 35067989.93 35067990.05 35067990.17 0.0143 0.0067

Uranus 91301-01-13 16:48 G 35068078.10 35068078.20 35068078.31 0.0144 0.0089

Uranus 91301-04-11 20:38 G 35068166.28 35068166.36 35068166.44 0.0144 0.0112

Uranus 91301-07-09 00:14 G 35068254.47 35068254.51 35068254.56 0.0144 0.0135

Saturn 91301-10-03 22:19 G 35068341.33 35068341.43 35068341.53 0.0268 0.0174

Saturn 91301-12-31 08:24 G 35068429.72 35068429.85 35068429.98 0.0267 0.0062

Saturn 91302-03-29 18:29 G 35068518.14 35068518.27 35068518.40 0.0266 0.0050

Saturn 91302-06-26 04:19 G 35068606.58 35068606.68 35068606.79 0.0265 0.0162

Mars 91303-12-03 18:14 G 35069132.19 35069132.26 35069132.33 0.1586 0.1288

Jupiter 91305-08-10 22:48 G 35069748.32 35069748.45 35069748.57 0.0513 0.0037

Mars 91305-11-07 19:12 G 35069837.18 35069837.30 35069837.42 0.1586 0.0081

Earth 91306-10-27 01:12 G 35070190.49 35070190.55 35070190.61 0.2632 0.2199

Moon 91306-10-27 01:26 G 35070190.50 35070190.56 35070190.62 0.2638 0.2177 *

Mars 91307-10-13 20:53 G 35070542.34 35070542.37 35070542.41 0.1590 0.1501

Moon 91310-05-02 15:50 G 35071474.01 35071474.16 35071474.31 0.2697 0.0683

Earth 91310-05-02 17:02 G 35071474.05 35071474.21 35071474.36 0.2702 0.0474 *

Jupiter 91311-10-06 20:24 G 35071996.16 35071996.35 35071996.53 0.0512 0.0033

Mars 91315-03-31 06:43 G 35073267.67 35073267.78 35073267.90 0.1586 0.0264

Venus 91316-07-28 22:19 G 35073753.27 35073753.43 35073753.60 0.3752 0.0131

Mars 91317-03-05 08:24 G 35073972.77 35073972.85 35073972.93 0.1589 0.1146

Jupiter 91317-05-30 03:22 G 35074058.51 35074058.64 35074058.76 0.0514 0.0130

Saturn 91317-10-15 20:24 G 35074197.20 35074197.35 35074197.51 0.0296 0.0166

Saturn 91318-01-12 22:05 G 35074286.24 35074286.42 35074286.60 0.0297 0.0055

Saturn 91318-04-11 23:31 G 35074375.41 35074375.48 35074375.55 0.0297 0.0275

Earth 91319-10-29 18:43 G 35074941.18 35074941.28 35074941.39 0.2631 0.0846

Moon 91319-10-29 19:26 G 35074941.21 35074941.31 35074941.42 0.2633 0.0768 *

Mars 91319-12-17 20:24 G 35074990.23 35074990.35 35074990.47 0.1949 0.1332

Moon 91323-05-05 21:36 G 35076225.33 35076225.40 35076225.47 0.2700 0.2378

Earth 91323-05-05 23:02 G 35076225.40 35076225.46 35076225.52 0.2703 0.2464 *

Jupiter 91323-07-25 16:19 G 35076306.04 35076306.18 35076306.34 0.0512 0.0288

Mars 91324-08-20 18:43 G 35076698.17 35076698.28 35076698.39 0.1586 0.0593

Venus 91324-11-14 21:36 G 35076784.32 35076784.40 35076784.47 0.3622 0.2403

Mars 91326-07-26 19:55 G 35077403.23 35077403.33 35077403.43 0.1588 0.0798

Jupiter 91329-03-18 08:10 G 35078368.74 35078368.84 35078368.95 0.0514 0.0290

Mars 91329-05-08 12:58 G 35078419.87 35078420.04 35078420.20 0.1951 0.0089

Jupiter 91329-06-15 12:43 G 35078457.95 35078458.03 35078458.12 0.0512 0.0386

Venus 91330-05-31 12:14 G 35078807.91 35078808.01 35078808.12 0.3622 0.0410

Saturn 91331-02-21 01:12 G 35079073.47 35079073.55 35079073.64 0.0267 0.0205

Saturn 91331-05-20 11:17 G 35079161.85 35079161.97 35079162.09 0.0267 0.0093

Saturn 91331-08-16 21:22 G 35079250.25 35079250.39 35079250.52 0.0266 0.0020

Saturn 91331-11-13 07:26 G 35079338.69 35079338.81 35079338.92 0.0265 0.0131

Saturn 91332-02-09 17:17 G 35079427.17 35079427.22 35079427.28 0.0264 0.0242

Earth 91332-10-31 12:43 G 35079691.92 35079692.03 35079692.14 0.2630 0.0548

Moon 91332-10-31 13:12 G 35079691.94 35079692.05 35079692.16 0.2628 0.0678 *

Mars 91334-01-11 06:29 G 35080128.67 35080128.77 35080128.86 0.1586 0.0928

Jupiter 91335-08-12 00:29 G 35080706.44 35080706.52 35080706.60 0.0514 0.0458

Venus 91335-12-15 03:07 G 35080831.55 35080831.63 35080831.72 0.3621 0.1658

Mars 91335-12-17 07:26 G 35080833.70 35080833.81 35080833.93 0.1587 0.0456

Mars 91338-09-28 04:48 G 35081849.57 35081849.70 35081849.83 0.1951 0.1207

Uranus 91340-06-03 21:36 G 35082464.30 35082464.40 35082464.52 0.0135 0.0112

Uranus 91340-08-31 04:48 G 35082552.56 35082552.70 35082552.86 0.0135 0.0085

Uranus 91340-11-27 12:00 G 35082640.84 35082641.00 35082641.18 0.0135 0.0058

Jupiter 91341-01-04 12:58 G 35082678.98 35082679.04 35082679.10 0.0515 0.0453

Uranus 91341-02-23 19:12 G 35082729.12 35082729.30 35082729.49 0.0135 0.0031

Jupiter 91341-04-03 17:31 G 35082768.11 35082768.23 35082768.34 0.0513 0.0222

Uranus 91341-05-23 02:24 G 35082817.41 35082817.60 35082817.79 0.0135 0.0005

Uranus 91341-08-19 09:22 G 35082905.71 35082905.89 35082906.08 0.0135 0.0022

Uranus 91341-11-15 16:34 G 35082994.01 35082994.19 35082994.37 0.0135 0.0048

Uranus 91342-02-11 23:31 G 35083082.32 35083082.48 35083082.64 0.0135 0.0074

Uranus 91342-05-11 06:29 G 35083170.64 35083170.77 35083170.89 0.0135 0.0100

Uranus 91342-08-07 13:12 G 35083258.99 35083259.05 35083259.12 0.0135 0.0126

Mars 91343-06-03 18:14 G 35083559.19 35083559.26 35083559.33 0.1586 0.1255

Mars 91345-05-08 19:12 G 35084264.18 35084264.30 35084264.42 0.1586 0.0116

Earth 91345-11-03 06:29 G 35084442.70 35084442.77 35084442.85 0.2629 0.1943

Moon 91345-11-03 06:58 G 35084442.71 35084442.79 35084442.86 0.2623 0.1916 *

Saturn 91347-03-04 17:17 G 35084929.12 35084929.22 35084929.34 0.0295 0.0237

Mars 91347-04-13 20:53 G 35084969.34 35084969.37 35084969.40 0.1590 0.1531

Jupiter 91347-05-30 21:36 G 35085016.24 35085016.40 35085016.57 0.0513 0.0218

Saturn 91347-06-01 19:12 G 35085018.11 35085018.30 35085018.48 0.0296 0.0018

Saturn 91347-08-29 20:38 G 35085107.22 35085107.36 35085107.49 0.0297 0.0204

Mars 91352-10-24 06:14 G 35086989.75 35086989.76 35086989.76 0.1586 0.1585

Earth 91352-10-27 06:00 G 35086992.67 35086992.75 35086992.82 0.2632 0.1928

Moon 91352-10-27 06:14 G 35086992.69 35086992.76 35086992.84 0.2637 0.1846 *

Jupiter 91353-01-20 21:22 G 35087078.26 35087078.39 35087078.52 0.0513 0.0039

Mars 91354-09-29 06:58 G 35087694.67 35087694.79 35087694.90 0.1586 0.0232

Moon 91356-05-02 22:19 G 35088276.27 35088276.43 35088276.58 0.2697 0.0027

Earth 91356-05-02 23:31 G 35088276.32 35088276.48 35088276.63 0.2702 0.0103 *

Mars 91356-09-03 08:24 G 35088399.77 35088399.85 35088399.93 0.1589 0.1179

Jupiter 91359-03-18 18:58 G 35089326.11 35089326.29 35089326.47 0.0513 0.0019

Mars 91359-06-17 21:22 G 35089417.28 35089417.39 35089417.50 0.1950 0.1422

Saturn 91360-07-10 04:19 G 35089805.62 35089805.68 35089805.74 0.0268 0.0235

Saturn 91360-10-06 14:24 G 35089893.98 35089894.10 35089894.22 0.0267 0.0122

Saturn 91361-01-03 00:29 G 35089982.38 35089982.52 35089982.65 0.0266 0.0012

Saturn 91361-04-01 10:19 G 35090070.81 35090070.93 35090071.06 0.0266 0.0102

Saturn 91361-06-28 20:24 G 35090159.28 35090159.35 35090159.43 0.0265 0.0213

Neptune 91362-05-06 07:55 G 35090470.78 35090470.83 35090470.92 0.0090 0.0083

Neptune 91362-08-02 11:31 G 35090558.89 35090558.98 35090559.11 0.0090 0.0072

Neptune 91362-10-29 15:07 G 35090647.01 35090647.13 35090647.29 0.0090 0.0061

Neptune 91363-01-25 18:58 G 35090735.14 35090735.29 35090735.46 0.0090 0.0050

Neptune 91363-04-23 22:34 G 35090823.27 35090823.44 35090823.62 0.0090 0.0039

Neptune 91363-07-21 02:10 G 35090911.41 35090911.59 35090911.78 0.0090 0.0028

Neptune 91363-10-17 05:46 G 35090999.55 35090999.74 35090999.93 0.0090 0.0017

Neptune 91364-01-13 09:22 G 35091087.70 35091087.89 35091088.08 0.0090 0.0006

Mars 91364-02-19 18:29 G 35091125.17 35091125.27 35091125.38 0.1585 0.0568

Neptune 91364-04-10 12:58 G 35091175.85 35091176.04 35091176.23 0.0090 0.0005

Neptune 91364-07-07 16:19 G 35091264.00 35091264.18 35091264.37 0.0090 0.0015

Neptune 91364-10-03 19:55 G 35091352.15 35091352.33 35091352.51 0.0090 0.0026

Jupiter 91364-11-09 01:41 G 35091388.45 35091388.57 35091388.70 0.0514 0.0132

Neptune 91364-12-30 23:17 G 35091440.30 35091440.47 35091440.65 0.0090 0.0037

Neptune 91365-03-29 02:24 G 35091528.46 35091528.60 35091528.78 0.0090 0.0048

Neptune 91365-06-25 06:14 G 35091616.62 35091616.76 35091616.91 0.0090 0.0058

Neptune 91365-09-21 09:22 G 35091704.79 35091704.89 35091705.03 0.0090 0.0069

Earth 91365-10-29 23:46 G 35091743.38 35091743.49 35091743.59 0.2631 0.0577

Moon 91365-10-30 00:14 G 35091743.40 35091743.51 35091743.62 0.2633 0.0467 *

Neptune 91365-12-18 12:43 G 35091792.96 35091793.03 35091793.14 0.0090 0.0080

Mars 91366-01-24 19:55 G 35091830.23 35091830.33 35091830.43 0.1588 0.0831

Mars 91368-11-06 13:41 G 35092846.91 35092847.07 35092847.24 0.1951 0.0160

Moon 91369-05-06 03:50 G 35093027.66 35093027.66 35093027.67 0.2702 0.2700

Jupiter 91371-01-04 15:07 G 35093635.98 35093636.13 35093636.29 0.0512 0.0272

Venus 91373-03-05 01:26 G 35094426.47 35094426.56 35094426.66 0.3752 0.2999

Mars 91373-07-12 06:29 G 35094555.67 35094555.77 35094555.86 0.1585 0.0898

Mars 91375-06-17 07:26 G 35095260.70 35095260.81 35095260.92 0.1587 0.0482

Jupiter 91376-08-28 06:29 G 35095698.67 35095698.77 35095698.87 0.0515 0.0296

Saturn 91376-10-18 16:48 G 35095750.03 35095750.20 35095750.38 0.0296 0.0083

Jupiter 91376-11-25 11:02 G 35095787.87 35095787.96 35095788.04 0.0512 0.0380

Saturn 91377-01-15 18:29 G 35095839.11 35095839.27 35095839.43 0.0297 0.0138

Mars 91378-03-29 05:17 G 35096276.58 35096276.72 35096276.85 0.1952 0.1149

Earth 91378-11-01 17:31 G 35096494.12 35096494.23 35096494.33 0.2630 0.0818

Moon 91378-11-01 18:00 G 35096494.15 35096494.25 35096494.36 0.2626 0.0868 *

Venus 91381-06-21 18:43 G 35097457.19 35097457.28 35097457.37 0.3622 0.1663

Uranus 91382-09-05 11:02 G 35097897.92 35097897.96 35097898.02 0.0143 0.0130

Uranus 91382-12-02 14:38 G 35097986.03 35097986.11 35097986.20 0.0143 0.0109

Mars 91382-12-02 18:14 G 35097986.19 35097986.26 35097986.33 0.1586 0.1227 *

Jupiter 91383-01-21 23:31 G 35098036.42 35098036.48 35098036.55 0.0513 0.0478

Uranus 91383-02-28 18:14 G 35098074.16 35098074.26 35098074.37 0.0143 0.0087

Uranus 91383-05-27 22:05 G 35098162.30 35098162.42 35098162.53 0.0143 0.0065

Uranus 91383-08-24 01:41 G 35098250.44 35098250.57 35098250.69 0.0143 0.0043

Uranus 91383-11-20 05:17 G 35098338.58 35098338.72 35098338.85 0.0143 0.0021

Uranus 91384-02-16 08:53 G 35098426.73 35098426.87 35098427.00 0.0143 0.0003

Uranus 91384-05-14 12:29 G 35098514.89 35098515.02 35098515.15 0.0144 0.0024

Uranus 91384-08-10 16:05 G 35098603.05 35098603.17 35098603.30 0.0144 0.0047

Mars 91384-11-06 19:12 G 35098691.18 35098691.30 35098691.41 0.1586 0.0148

Uranus 91384-11-06 19:41 G 35098691.21 35098691.32 35098691.44 0.0144 0.0070 *

Uranus 91385-02-02 23:31 G 35098779.38 35098779.48 35098779.58 0.0144 0.0092

Uranus 91385-05-02 03:07 G 35098867.56 35098867.63 35098867.72 0.0144 0.0115

Uranus 91385-07-29 06:43 G 35098955.76 35098955.78 35098955.83 0.0144 0.0138

Mars 91386-10-12 20:53 G 35099396.35 35099396.37 35099396.39 0.1590 0.1560

Venus 91387-01-05 09:36 G 35099480.80 35099480.90 35099481.00 0.3621 0.0359

Jupiter 91388-06-16 11:17 G 35100008.92 35100008.97 35100009.03 0.0515 0.0454

Jupiter 91388-09-13 15:50 G 35100098.05 35100098.16 35100098.28 0.0513 0.0221

Moon 91389-04-30 23:17 G 35100327.40 35100327.47 35100327.53 0.2695 0.2435

Earth 91389-04-30 23:31 G 35100327.41 35100327.48 35100327.56 0.2701 0.2353 *

Saturn 91390-02-23 17:02 G 35100626.10 35100626.21 35100626.32 0.0267 0.0156

Saturn 91390-05-23 03:07 G 35100714.50 35100714.63 35100714.76 0.0266 0.0044

Saturn 91390-08-19 12:58 G 35100802.92 35100803.04 35100803.17 0.0265 0.0068

Saturn 91390-11-15 23:02 G 35100891.37 35100891.46 35100891.56 0.0265 0.0179

Earth 91391-11-04 11:31 G 35101244.92 35101244.98 35101245.03 0.2629 0.2224

Moon 91391-11-04 11:31 G 35101244.93 35101244.98 35101245.04 0.2623 0.2302 *

Mars 91392-04-24 06:00 G 35101416.74 35101416.75 35101416.77 0.1586 0.1556

Venus 91392-07-21 00:29 G 35101504.44 35101504.52 35101504.59 0.3621 0.2382

Mars 91394-03-30 06:43 G 35102121.67 35102121.78 35102121.90 0.1586 0.0203

Jupiter 91394-11-09 19:41 G 35102346.16 35102346.32 35102346.49 0.0513 0.0223

Mars 91396-03-04 08:24 G 35102826.77 35102826.85 35102826.92 0.1589 0.1211

Earth 91398-10-28 10:48 G 35103794.86 35103794.95 35103795.03 0.2632 0.1659

Moon 91398-10-28 11:17 G 35103794.88 35103794.97 35103795.06 0.2636 0.1637 *

Mars 91398-12-16 22:19 G 35103844.33 35103844.43 35103844.54 0.1949 0.1503

Jupiter 91400-07-03 20:38 G 35104408.23 35104408.36 35104408.49 0.0513 0.0059

Moon 91402-05-05 04:48 G 35105078.55 35105078.70 35105078.85 0.2697 0.0450

Earth 91402-05-05 06:00 G 35105078.60 35105078.75 35105078.90 0.2702 0.0646 *

Mars 91403-08-21 18:43 G 35105552.17 35105552.28 35105552.39 0.1585 0.0535

Mars 91405-07-26 19:55 G 35106257.23 35106257.33 35106257.43 0.1588 0.0862

Saturn 91406-03-08 12:29 G 35106481.87 35106482.02 35106482.18 0.0295 0.0164

Saturn 91406-06-05 14:10 G 35106570.91 35106571.09 35106571.28 0.0296 0.0058

Jupiter 91406-08-29 17:02 G 35106656.02 35106656.21 35106656.39 0.0512 0.0019

Saturn 91406-09-02 15:36 G 35106660.09 35106660.15 35106660.22 0.0297 0.0278

Mars 91408-05-08 14:24 G 35107273.94 35107274.10 35107274.27 0.1951 0.0242

Earth 91411-11-01 04:34 G 35108545.57 35108545.69 35108545.80 0.2631 0.0306

Moon 91411-11-01 05:02 G 35108545.60 35108545.71 35108545.83 0.2632 0.0207 *

Jupiter 91412-04-22 00:29 G 35108718.40 35108718.52 35108718.65 0.0514 0.0124

Mars 91413-01-11 06:14 G 35108982.67 35108982.76 35108982.86 0.1585 0.0868

Mars 91414-12-17 07:26 G 35109687.70 35109687.81 35109687.92 0.1587 0.0518

Pluto 91416-04-26 01:41 G 35110183.53 35110183.57 35110183.66 0.0061 0.0058

Pluto 91416-07-23 03:07 G 35110271.52 35110271.63 35110271.76 0.0061 0.0047

Pluto 91416-10-19 04:05 G 35110359.54 35110359.67 35110359.83 0.0061 0.0037

Pluto 91417-01-15 05:31 G 35110447.57 35110447.73 35110447.90 0.0061 0.0026

Pluto 91417-04-13 06:29 G 35110535.60 35110535.77 35110535.95 0.0062 0.0015

Pluto 91417-07-10 07:41 G 35110623.65 35110623.82 35110624.01 0.0062 0.0005

Mars 91417-09-28 06:29 G 35110703.63 35110703.77 35110703.91 0.1952 0.1054

Pluto 91417-10-06 08:53 G 35110711.69 35110711.87 35110712.05 0.0062 0.0006

Pluto 91418-01-02 09:50 G 35110799.75 35110799.91 35110800.09 0.0062 0.0017

Pluto 91418-03-31 11:02 G 35110887.81 35110887.96 35110888.13 0.0062 0.0027

Jupiter 91418-06-17 14:10 G 35110965.93 35110966.09 35110966.25 0.0512 0.0252

Pluto 91418-06-27 12:00 G 35110975.87 35110976.00 35110976.15 0.0062 0.0038

Pluto 91418-09-23 12:58 G 35111063.95 35111064.04 35111064.17 0.0062 0.0049

Pluto 91418-12-20 14:24 G 35111152.06 35111152.10 35111152.16 0.0062 0.0059

Saturn 91419-07-14 19:55 G 35111358.24 35111358.33 35111358.42 0.0268 0.0189

Saturn 91419-10-11 06:00 G 35111446.62 35111446.75 35111446.87 0.0267 0.0077

Saturn 91420-01-07 15:50 G 35111535.03 35111535.16 35111535.30 0.0266 0.0037

Saturn 91420-04-05 01:55 G 35111623.47 35111623.58 35111623.69 0.0265 0.0147

Saturn 91420-07-02 12:00 G 35111711.98 35111712.00 35111712.03 0.0264 0.0258

Mars 91422-06-03 18:14 G 35112413.18 35112413.26 35112413.33 0.1585 0.1200

Jupiter 91424-02-09 05:02 G 35113028.61 35113028.71 35113028.82 0.0514 0.0290

Venus 91424-03-26 15:22 G 35113075.07 35113075.14 35113075.22 0.3751 0.3283

Uranus 91424-03-28 21:07 G 35113077.36 35113077.38 35113077.44 0.0135 0.0132

Jupiter 91424-05-08 09:36 G 35113117.82 35113117.90 35113117.99 0.0512 0.0384

Mars 91424-05-08 19:12 G 35113118.18 35113118.30 35113118.41 0.1586 0.0179

Uranus 91424-06-25 04:34 G 35113165.58 35113165.69 35113165.82 0.0135 0.0105

Uranus 91424-09-21 11:46 G 35113253.84 35113253.99 35113254.16 0.0135 0.0078

Earth 91424-11-02 22:19 G 35113296.33 35113296.43 35113296.53 0.2630 0.1100

Moon 91424-11-02 22:48 G 35113296.35 35113296.45 35113296.55 0.2625 0.1198 *

Uranus 91424-12-18 19:12 G 35113342.12 35113342.30 35113342.47 0.0135 0.0051

Uranus 91425-03-17 02:10 G 35113430.41 35113430.59 35113430.78 0.0135 0.0025

Uranus 91425-06-13 09:22 G 35113518.70 35113518.89 35113519.08 0.0135 0.0002

Uranus 91425-09-09 16:19 G 35113607.00 35113607.18 35113607.37 0.0135 0.0029

Uranus 91425-12-06 23:17 G 35113695.31 35113695.47 35113695.65 0.0135 0.0055

Uranus 91426-03-05 06:29 G 35113783.62 35113783.77 35113783.92 0.0135 0.0081

Uranus 91426-06-01 13:12 G 35113871.95 35113872.05 35113872.17 0.0135 0.0107

Uranus 91426-08-28 20:10 G 35113960.32 35113960.34 35113960.38 0.0135 0.0133

Jupiter 91430-04-05 10:34 G 35115275.91 35115275.94 35115275.97 0.0511 0.0502

Jupiter 91430-07-04 22:48 G 35115366.42 35115366.45 35115366.49 0.0513 0.0502

Mars 91431-10-25 06:00 G 35115843.72 35115843.75 35115843.78 0.1586 0.1526

Venus 91432-07-14 01:12 G 35116106.49 35116106.55 35116106.60 0.3623 0.2942

Mars 91433-09-29 06:43 G 35116548.66 35116548.78 35116548.90 0.1586 0.0169

Moon 91435-05-03 05:31 G 35117129.62 35117129.73 35117129.85 0.2695 0.1791

Earth 91435-05-03 06:14 G 35117129.65 35117129.76 35117129.88 0.2701 0.1780 *

Saturn 91435-07-26 09:22 G 35117213.79 35117213.89 35117214.01 0.0295 0.0238

Mars 91435-09-04 08:24 G 35117253.78 35117253.85 35117253.92 0.1589 0.1242

Saturn 91435-10-23 11:17 G 35117302.78 35117302.97 35117303.16 0.0296 0.0016

Jupiter 91435-11-28 09:50 G 35117338.85 35117338.91 35117338.97 0.0515 0.0454

Saturn 91436-01-20 12:43 G 35117391.90 35117392.03 35117392.17 0.0297 0.0205

Jupiter 91436-02-25 14:24 G 35117427.98 35117428.10 35117428.21 0.0513 0.0221

Moon 91437-11-05 16:19 G 35118047.14 35118047.18 35118047.22 0.2623 0.2464

Earth 91437-11-05 16:19 G 35118047.15 35118047.18 35118047.21 0.2629 0.2507 *

Venus 91438-01-27 16:05 G 35118130.07 35118130.17 35118130.26 0.3622 0.0937

Mars 91438-06-17 22:48 G 35118271.36 35118271.45 35118271.55 0.1949 0.1563

Jupiter 91442-04-22 19:12 G 35119676.15 35119676.30 35119676.46 0.0513 0.0253

Mars 91443-02-19 18:29 G 35119979.16 35119979.27 35119979.39 0.1585 0.0505

Neptune 91443-05-18 08:38 G 35120066.84 35120066.86 35120066.89 0.0088 0.0086

Venus 91443-08-13 06:43 G 35120153.69 35120153.78 35120153.88 0.3621 0.1097

Neptune 91443-08-14 10:05 G 35120154.86 35120154.92 35120154.97 0.0088 0.0079

Neptune 91443-11-10 11:17 G 35120242.90 35120242.97 35120243.04 0.0088 0.0072

Neptune 91444-02-06 12:29 G 35120330.94 35120331.02 35120331.11 0.0088 0.0065

Neptune 91444-05-04 13:55 G 35120418.98 35120419.08 35120419.18 0.0088 0.0058

Neptune 91444-07-31 15:07 G 35120507.02 35120507.13 35120507.24 0.0088 0.0051

Neptune 91444-10-27 16:19 G 35120595.07 35120595.18 35120595.30 0.0088 0.0044

Earth 91444-10-29 15:36 G 35120597.05 35120597.15 35120597.24 0.2632 0.1388

Moon 91444-10-29 16:05 G 35120597.07 35120597.17 35120597.27 0.2636 0.1251 *

Neptune 91445-01-23 17:46 G 35120683.12 35120683.24 35120683.36 0.0088 0.0037

Mars 91445-01-24 19:55 G 35120684.23 35120684.33 35120684.42 0.1588 0.0893

Neptune 91445-04-21 18:58 G 35120771.17 35120771.29 35120771.42 0.0088 0.0030

Neptune 91445-07-18 20:24 G 35120859.22 35120859.35 35120859.48 0.0088 0.0023

Neptune 91445-10-14 21:36 G 35120947.27 35120947.40 35120947.54 0.0088 0.0016

Neptune 91446-01-10 23:02 G 35121035.33 35121035.46 35121035.59 0.0088 0.0008

Neptune 91446-04-09 00:29 G 35121123.38 35121123.52 35121123.65 0.0088 0.0003

Neptune 91446-07-06 01:41 G 35121211.44 35121211.57 35121211.71 0.0088 0.0006

Neptune 91446-10-02 02:53 G 35121299.49 35121299.62 35121299.76 0.0088 0.0014

Neptune 91446-12-29 04:19 G 35121387.55 35121387.68 35121387.82 0.0088 0.0020

Neptune 91447-03-27 05:46 G 35121475.61 35121475.74 35121475.87 0.0088 0.0028

Neptune 91447-06-23 06:58 G 35121563.67 35121563.79 35121563.92 0.0088 0.0035

Neptune 91447-09-19 08:24 G 35121651.73 35121651.85 35121651.97 0.0088 0.0042

Mars 91447-11-07 15:22 G 35121700.98 35121701.14 35121701.31 0.1951 0.0318

Jupiter 91447-12-14 19:12 G 35121738.18 35121738.30 35121738.43 0.0514 0.0064

Neptune 91447-12-16 09:36 G 35121739.80 35121739.90 35121740.02 0.0088 0.0050

Neptune 91448-03-13 11:02 G 35121827.86 35121827.96 35121828.07 0.0088 0.0057

Moon 91448-05-05 11:17 G 35121880.83 35121880.97 35121881.11 0.2699 0.1029

Earth 91448-05-05 12:29 G 35121880.89 35121881.02 35121881.16 0.2702 0.1197 *

Neptune 91448-06-09 12:29 G 35121915.93 35121916.02 35121916.11 0.0088 0.0064

Neptune 91448-09-05 13:55 G 35122004.00 35122004.08 35122004.16 0.0088 0.0071

Saturn 91448-11-30 22:19 G 35122090.36 35122090.43 35122090.50 0.0268 0.0225

Neptune 91448-12-02 14:53 G 35122092.08 35122092.12 35122092.20 0.0088 0.0079

Venus 91449-02-25 21:50 G 35122177.36 35122177.41 35122177.45 0.3620 0.3128

Saturn 91449-02-27 08:24 G 35122178.73 35122178.85 35122178.97 0.0267 0.0113

Neptune 91449-02-28 16:19 G 35122180.17 35122180.18 35122180.22 0.0088 0.0086

Saturn 91449-05-26 18:14 G 35122267.13 35122267.26 35122267.40 0.0266 0.0008

Saturn 91449-08-23 04:19 G 35122355.56 35122355.68 35122355.80 0.0265 0.0111

Saturn 91449-11-19 14:24 G 35122444.03 35122444.10 35122444.17 0.0264 0.0222

Mars 91452-07-12 06:14 G 35123409.67 35123409.76 35123409.86 0.1585 0.0838

Jupiter 91454-02-08 15:36 G 35123985.96 35123986.15 35123986.33 0.0512 0.0009

Mars 91454-06-17 07:26 G 35124114.70 35124114.81 35124114.92 0.1587 0.0549

Mars 91457-03-29 07:12 G 35125130.66 35125130.80 35125130.95 0.1951 0.0975

Earth 91457-11-01 09:22 G 35125347.77 35125347.89 35125348.00 0.2631 0.0064

Moon 91457-11-01 10:05 G 35125347.80 35125347.92 35125348.03 0.2630 0.0094 *

Jupiter 91459-10-03 00:14 G 35126048.38 35126048.51 35126048.63 0.0514 0.0099

Mars 91461-12-02 18:14 G 35126840.18 35126840.26 35126840.33 0.1585 0.1167

Mars 91463-11-07 19:12 G 35127545.18 35127545.30 35127545.41 0.1586 0.0214

Saturn 91465-03-11 06:29 G 35128034.60 35128034.77 35128034.95 0.0295 0.0101

Saturn 91465-06-08 08:10 G 35128123.67 35128123.84 35128124.01 0.0296 0.0120

Jupiter 91465-11-27 12:43 G 35128295.87 35128296.03 35128296.19 0.0512 0.0240

Uranus 91466-09-26 18:14 G 35128599.20 35128599.26 35128599.32 0.0143 0.0127

Uranus 91466-12-23 21:36 G 35128687.32 35128687.40 35128687.49 0.0143 0.0105

Uranus 91467-03-22 01:12 G 35128775.45 35128775.55 35128775.66 0.0143 0.0083

Uranus 91467-06-18 04:48 G 35128863.58 35128863.70 35128863.82 0.0143 0.0061

Uranus 91467-09-14 08:24 G 35128951.72 35128951.85 35128951.98 0.0143 0.0039

Uranus 91467-12-11 12:00 G 35129039.87 35129040.00 35129040.13 0.0143 0.0017

Uranus 91468-03-08 15:36 G 35129128.02 35129128.15 35129128.29 0.0143 0.0006

Uranus 91468-06-04 19:12 G 35129216.17 35129216.30 35129216.44 0.0143 0.0028

Uranus 91468-08-31 23:02 G 35129304.33 35129304.46 35129304.58 0.0143 0.0050

Uranus 91468-11-28 02:38 G 35129392.50 35129392.61 35129392.73 0.0144 0.0073

Uranus 91469-02-24 06:14 G 35129480.67 35129480.76 35129480.86 0.0144 0.0096

Uranus 91469-05-23 09:50 G 35129568.85 35129568.91 35129568.99 0.0144 0.0119

Uranus 91469-08-19 13:41 G 35129657.05 35129657.07 35129657.10 0.0144 0.0141

Earth 91470-11-04 03:07 G 35130098.54 35130098.63 35130098.73 0.2630 0.1382

Moon 91470-11-04 03:36 G 35130098.56 35130098.65 35130098.75 0.2625 0.1453 *

Mars 91471-04-25 06:00 G 35130270.72 35130270.75 35130270.79 0.1586 0.1497

Jupiter 91471-07-22 04:05 G 35130358.57 35130358.67 35130358.78 0.0514 0.0277

Jupiter 91471-10-19 08:38 G 35130447.78 35130447.86 35130447.94 0.0512 0.0397

Mars 91473-03-30 06:43 G 35130975.67 35130975.78 35130975.90 0.1585 0.0141

Mars 91475-03-05 08:24 G 35131680.78 35131680.85 35131680.92 0.1589 0.1275

Jupiter 91477-09-15 09:50 G 35132605.85 35132605.91 35132605.98 0.0512 0.0476

Earth 91477-10-28 02:38 G 35132648.58 35132648.61 35132648.65 0.2632 0.2470

Moon 91477-10-28 02:53 G 35132648.58 35132648.62 35132648.67 0.2638 0.2393 *

Mars 91477-12-16 23:46 G 35132698.41 35132698.49 35132698.58 0.1950 0.1646

Saturn 91478-04-20 00:43 G 35132822.51 35132822.53 35132822.56 0.0268 0.0262

Saturn 91478-07-17 10:48 G 35132910.84 35132910.95 35132911.06 0.0268 0.0149

Saturn 91478-10-13 20:53 G 35132999.24 35132999.37 35132999.50 0.0267 0.0036

Saturn 91479-01-10 06:58 G 35133087.66 35133087.79 35133087.92 0.0266 0.0076

Saturn 91479-04-08 16:48 G 35133176.11 35133176.20 35133176.30 0.0265 0.0187

Venus 91480-10-31 18:43 G 35133748.11 35133748.28 35133748.44 0.3751 0.0315

Moon 91481-05-03 12:14 G 35133931.87 35133932.01 35133932.14 0.2695 0.1397

Earth 91481-05-03 12:43 G 35133931.90 35133932.03 35133932.17 0.2701 0.1223 *

Mars 91482-08-20 18:29 G 35134406.16 35134406.27 35134406.38 0.1585 0.0474

Jupiter 91483-05-10 08:53 G 35134668.81 35134668.87 35134668.93 0.0515 0.0442

Jupiter 91483-08-07 13:12 G 35134757.94 35134758.05 35134758.17 0.0513 0.0231

Mars 91484-07-25 19:55 G 35135111.23 35135111.33 35135111.42 0.1588 0.0926

Mars 91487-05-08 16:19 G 35136128.02 35136128.18 35136128.34 0.1951 0.0393

Venus 91489-02-17 22:19 G 35136779.35 35136779.43 35136779.51 0.3623 0.2203

Jupiter 91489-10-02 18:58 G 35137006.14 35137006.29 35137006.44 0.0513 0.0283

Earth 91490-10-30 20:24 G 35137399.25 35137399.35 35137399.45 0.2631 0.1113

Moon 91490-10-30 20:53 G 35137399.27 35137399.37 35137399.47 0.2636 0.1098 *

Mars 91492-01-11 06:14 G 35137836.66 35137836.76 35137836.86 0.1585 0.0808

Mars 91493-12-16 07:26 G 35138541.70 35138541.81 35138541.92 0.1587 0.0576

Moon 91494-05-06 17:31 G 35138683.11 35138683.23 35138683.36 0.2700 0.1599

Earth 91494-05-06 19:12 G 35138683.18 35138683.30 35138683.41 0.2703 0.1756 *

Saturn 91494-07-29 02:38 G 35138766.47 35138766.61 35138766.76 0.0295 0.0181

Venus 91494-09-03 13:12 G 35138802.95 35138803.05 35138803.15 0.3621 0.0191

Saturn 91494-10-26 04:19 G 35138855.50 35138855.68 35138855.87 0.0296 0.0041

Saturn 91495-01-23 05:46 G 35138944.66 35138944.74 35138944.83 0.0297 0.0262

Jupiter 91495-05-26 18:00 G 35139068.12 35139068.25 35139068.37 0.0513 0.0068

Mars 91496-09-27 07:55 G 35139557.68 35139557.83 35139557.97 0.1952 0.0909

Venus 91500-03-20 04:05 G 35140826.58 35140826.67 35140826.76 0.3621 0.1832

Mars 91501-06-03 18:00 G 35141267.17 35141267.25 35141267.33 0.1585 0.1140

Jupiter 91501-07-22 15:22 G 35141315.96 35141316.14 35141316.33 0.0512 0.0035

Mars 91503-05-09 18:58 G 35141972.18 35141972.29 35141972.41 0.1586 0.0242

Earth 91503-11-03 14:10 G 35142149.98 35142150.09 35142150.20 0.2631 0.0263

Moon 91503-11-03 14:53 G 35142150.01 35142150.12 35142150.23 0.2628 0.0420 *

Jupiter 91507-03-15 22:48 G 35143378.33 35143378.45 35143378.58 0.0514 0.0092

Saturn 91507-12-05 12:58 G 35143642.95 35143643.04 35143643.14 0.0267 0.0187

Saturn 91508-03-02 23:02 G 35143731.33 35143731.46 35143731.59 0.0267 0.0075

Uranus 91508-04-19 04:05 G 35143778.61 35143778.67 35143778.74 0.0135 0.0126

Saturn 91508-05-30 09:07 G 35143819.75 35143819.88 35143820.01 0.0266 0.0037

Uranus 91508-07-16 11:17 G 35143866.85 35143866.97 35143867.11 0.0135 0.0099

Saturn 91508-08-26 18:58 G 35143908.19 35143908.29 35143908.41 0.0265 0.0149

Uranus 91508-10-12 18:43 G 35143955.12 35143955.28 35143955.44 0.0135 0.0072

Saturn 91508-11-23 05:17 G 35143996.70 35143996.72 35143996.74 0.0264 0.0259

Pluto 91508-11-25 10:48 G 35143998.91 35143998.95 35143998.99 0.0083 0.0080

Uranus 91509-01-09 01:41 G 35144043.40 35144043.57 35144043.76 0.0135 0.0046

Pluto 91509-02-21 12:00 G 35144086.91 35144087.00 35144087.10 0.0083 0.0059

Uranus 91509-04-07 08:53 G 35144131.69 35144131.87 35144132.06 0.0135 0.0019

Pluto 91509-05-20 13:26 G 35144174.94 35144175.06 35144175.19 0.0083 0.0039

Uranus 91509-07-04 16:05 G 35144219.98 35144220.17 35144220.36 0.0135 0.0008

Pluto 91509-08-16 14:53 G 35144262.98 35144263.12 35144263.25 0.0083 0.0019

Uranus 91509-09-30 23:02 G 35144308.28 35144308.46 35144308.65 0.0135 0.0035

Pluto 91509-11-12 16:05 G 35144351.03 35144351.17 35144351.32 0.0083 0.0003

Uranus 91509-12-28 06:00 G 35144396.59 35144396.75 35144396.93 0.0135 0.0061

Pluto 91510-02-08 17:17 G 35144439.09 35144439.22 35144439.37 0.0082 0.0022

Uranus 91510-03-26 12:58 G 35144484.91 35144485.04 35144485.20 0.0135 0.0087

Pluto 91510-05-07 18:43 G 35144527.16 35144527.28 35144527.41 0.0082 0.0041

Uranus 91510-06-22 19:55 G 35144573.24 35144573.33 35144573.44 0.0135 0.0113

Pluto 91510-08-03 19:55 G 35144615.25 35144615.33 35144615.43 0.0082 0.0061

Mars 91510-10-25 06:00 G 35144697.71 35144697.75 35144697.79 0.1586 0.1467

Pluto 91510-10-30 21:07 G 35144703.37 35144703.38 35144703.42 0.0082 0.0081

Mars 91512-09-29 06:43 G 35145402.66 35145402.78 35145402.90 0.1586 0.0106

Jupiter 91513-05-10 11:31 G 35145625.82 35145625.98 35145626.15 0.0512 0.0221

Mars 91514-09-04 08:24 G 35146107.78 35146107.85 35146107.91 0.1589 0.1308

Earth 91516-11-05 07:55 G 35146900.75 35146900.83 35146900.92 0.2630 0.1665

Moon 91516-11-05 08:24 G 35146900.77 35146900.85 35146900.94 0.2625 0.1702 *

Mars 91517-06-18 00:58 G 35147125.47 35147125.54 35147125.61 0.1950 0.1734

Jupiter 91519-01-02 03:50 G 35147688.55 35147688.66 35147688.77 0.0514 0.0250

Jupiter 91519-04-01 08:24 G 35147777.78 35147777.85 35147777.92 0.0512 0.0424

Mars 91522-02-19 18:29 G 35148833.16 35148833.27 35148833.39 0.1585 0.0442

Earth 91523-10-30 07:26 G 35149450.75 35149450.81 35149450.87 0.2632 0.2196

Moon 91523-10-30 07:55 G 35149450.77 35149450.83 35149450.89 0.2638 0.2204 *

Saturn 91523-12-16 21:07 G 35149498.32 35149498.38 35149498.46 0.0294 0.0272

Mars 91524-01-25 19:55 G 35149538.23 35149538.33 35149538.42 0.1588 0.0957

Saturn 91524-03-14 23:02 G 35149587.28 35149587.46 35149587.64 0.0296 0.0050

Saturn 91524-06-12 00:29 G 35149676.38 35149676.52 35149676.68 0.0297 0.0171

Jupiter 91525-02-26 08:38 G 35149935.79 35149935.86 35149935.95 0.0511 0.0459

Neptune 91526-11-06 02:38 G 35150553.61 35150553.61 35150553.66 0.0090 0.0089

Mars 91526-11-07 17:02 G 35150555.05 35150555.21 35150555.37 0.1951 0.0469

Neptune 91527-02-02 06:29 G 35150641.69 35150641.77 35150641.88 0.0090 0.0078

Neptune 91527-05-01 10:05 G 35150729.81 35150729.92 35150730.06 0.0090 0.0067

Moon 91527-05-05 18:29 G 35150734.12 35150734.27 35150734.42 0.2695 0.0670

Earth 91527-05-05 19:26 G 35150734.16 35150734.31 35150734.46 0.2702 0.0664 *

Neptune 91527-07-28 13:41 G 35150817.94 35150818.07 35150818.24 0.0090 0.0056

Neptune 91527-10-24 17:17 G 35150906.07 35150906.22 35150906.40 0.0090 0.0045

Neptune 91528-01-20 21:07 G 35150994.21 35150994.38 35150994.56 0.0090 0.0034

Neptune 91528-04-18 00:43 G 35151082.35 35151082.53 35151082.72 0.0090 0.0023

Neptune 91528-07-15 04:19 G 35151170.49 35151170.68 35151170.87 0.0090 0.0012

Neptune 91528-10-11 07:55 G 35151258.64 35151258.83 35151259.02 0.0090 0.0001

Neptune 91529-01-07 11:31 G 35151346.79 35151346.98 35151347.17 0.0090 0.0010

Neptune 91529-04-05 14:53 G 35151434.94 35151435.12 35151435.31 0.0090 0.0021

Neptune 91529-07-02 18:14 G 35151523.09 35151523.26 35151523.45 0.0090 0.0032

Neptune 91529-09-28 21:50 G 35151611.25 35151611.41 35151611.58 0.0090 0.0042

Neptune 91529-12-26 01:12 G 35151699.41 35151699.55 35151699.71 0.0090 0.0053

Neptune 91530-03-24 04:34 G 35151787.57 35151787.69 35151787.84 0.0090 0.0064

Neptune 91530-06-20 08:10 G 35151875.74 35151875.84 35151875.95 0.0090 0.0074

Neptune 91530-09-16 11:17 G 35151963.93 35151963.97 35151964.05 0.0090 0.0085

Jupiter 91530-10-21 07:55 G 35151998.76 35151998.83 35151998.90 0.0515 0.0426

Jupiter 91531-01-18 12:29 G 35152087.90 35152088.02 35152088.13 0.0512 0.0247

Mars 91531-07-13 06:14 G 35152263.66 35152263.76 35152263.86 0.1585 0.0776

Mars 91533-06-17 07:26 G 35152968.70 35152968.81 35152968.92 0.1587 0.0611

Mars 91536-03-29 08:53 G 35153984.72 35153984.87 35153985.02 0.1952 0.0822

Earth 91536-11-01 01:12 G 35154201.44 35154201.55 35154201.66 0.2631 0.0837

Moon 91536-11-01 01:55 G 35154201.47 35154201.58 35154201.68 0.2634 0.0694 *

Jupiter 91537-03-15 18:29 G 35154336.13 35154336.27 35154336.42 0.0513 0.0314

Saturn 91537-04-23 15:22 G 35154375.07 35154375.14 35154375.21 0.0268 0.0227

Venus 91537-06-08 21:36 G 35154421.29 35154421.40 35154421.52 0.3752 0.2616

Saturn 91537-07-21 01:26 G 35154463.44 35154463.56 35154463.68 0.0267 0.0114

Saturn 91537-10-17 11:31 G 35154551.84 35154551.98 35154552.11 0.0267 0.0008

Saturn 91538-01-13 21:22 G 35154640.27 35154640.39 35154640.52 0.0266 0.0111

Saturn 91538-04-12 07:26 G 35154728.74 35154728.81 35154728.88 0.0265 0.0223

Venus 91540-03-12 04:48 G 35155428.67 35155428.70 35155428.72 0.3623 0.3473

Moon 91540-05-08 00:00 G 35155485.40 35155485.50 35155485.60 0.2701 0.2009

Earth 91540-05-08 01:26 G 35155485.49 35155485.56 35155485.64 0.2703 0.2296 *

Mars 91540-12-02 18:00 G 35155694.17 35155694.25 35155694.34 0.1585 0.1111

Jupiter 91542-11-06 17:02 G 35156398.08 35156398.21 35156398.34 0.0513 0.0081

Mars 91542-11-07 18:58 G 35156399.18 35156399.29 35156399.41 0.1586 0.0269

Venus 91545-09-25 19:41 G 35157452.22 35157452.32 35157452.41 0.3622 0.1466

Jupiter 91549-01-01 15:22 G 35158645.95 35158646.14 35158646.32 0.0513 0.0069

Earth 91549-11-03 18:58 G 35158952.18 35158952.29 35158952.40 0.2631 0.0547

Moon 91549-11-03 19:41 G 35158952.21 35158952.32 35158952.43 0.2628 0.0584 *

Mars 91550-04-25 06:00 G 35159124.70 35159124.75 35159124.80 0.1586 0.1437

Uranus 91550-07-21 21:50 G 35159212.41 35159212.41 35159212.42 0.0143 0.0143

Uranus 91550-10-18 01:12 G 35159300.49 35159300.55 35159300.63 0.0143 0.0122

Uranus 91551-01-14 04:48 G 35159388.62 35159388.70 35159388.80 0.0143 0.0100

Venus 91551-04-11 10:34 G 35159475.84 35159475.94 35159476.04 0.3621 0.0566

Uranus 91551-04-12 08:38 G 35159476.75 35159476.86 35159476.97 0.0143 0.0077

Uranus 91551-07-09 12:14 G 35159564.89 35159565.01 35159565.13 0.0143 0.0055

Uranus 91551-10-05 15:50 G 35159653.03 35159653.16 35159653.29 0.0143 0.0033

Uranus 91552-01-01 19:26 G 35159741.18 35159741.31 35159741.44 0.0143 0.0011

Uranus 91552-03-29 23:02 G 35159829.33 35159829.46 35159829.59 0.0143 0.0011

Mars 91552-03-30 06:43 G 35159829.66 35159829.78 35159829.90 0.1585 0.0076

Uranus 91552-06-26 02:38 G 35159917.48 35159917.61 35159917.74 0.0143 0.0034

Uranus 91552-09-22 06:14 G 35160005.64 35160005.76 35160005.89 0.0143 0.0056

Uranus 91552-12-19 10:05 G 35160093.81 35160093.92 35160094.03 0.0144 0.0079

Uranus 91553-03-17 13:41 G 35160181.98 35160182.07 35160182.17 0.0144 0.0101

Uranus 91553-06-13 17:17 G 35160270.16 35160270.22 35160270.29 0.0144 0.0124

Saturn 91553-08-01 19:12 G 35160319.13 35160319.30 35160319.46 0.0295 0.0132

Saturn 91553-10-29 20:38 G 35160408.19 35160408.36 35160408.54 0.0296 0.0090

Mars 91554-03-05 08:24 G 35160534.78 35160534.85 35160534.91 0.1589 0.1338

Jupiter 91554-08-25 21:36 G 35160708.28 35160708.40 35160708.53 0.0514 0.0085

Venus 91556-10-25 01:26 G 35161499.49 35161499.56 35161499.63 0.3620 0.2579

Mars 91556-12-17 01:12 G 35161552.49 35161552.55 35161552.61 0.1950 0.1787

Jupiter 91560-10-20 11:46 G 35162955.82 35162955.99 35162956.16 0.0512 0.0181

Mars 91561-08-20 18:29 G 35163260.16 35163260.27 35163260.38 0.1585 0.0411

Earth 91562-11-06 12:58 G 35163702.96 35163703.04 35163703.11 0.2630 0.1944

Moon 91562-11-06 13:12 G 35163702.97 35163703.05 35163703.12 0.2624 0.2013 *

Mars 91563-07-26 19:55 G 35163965.23 35163965.33 35163965.42 0.1588 0.0989

Mars 91566-05-08 18:00 G 35164982.09 35164982.25 35164982.41 0.1951 0.0550

Jupiter 91566-06-14 02:38 G 35165018.50 35165018.61 35165018.72 0.0514 0.0241

Saturn 91566-09-10 17:31 G 35165107.22 35165107.23 35165107.24 0.0268 0.0266

Jupiter 91566-09-11 07:12 G 35165107.73 35165107.80 35165107.87 0.0512 0.0433

Saturn 91566-12-08 03:22 G 35165195.54 35165195.64 35165195.75 0.0267 0.0154

Saturn 91567-03-06 13:26 G 35165283.93 35165284.06 35165284.19 0.0266 0.0041

Saturn 91567-06-02 23:31 G 35165372.35 35165372.48 35165372.61 0.0266 0.0071

Saturn 91567-08-30 09:36 G 35165460.81 35165460.90 35165461.00 0.0265 0.0183

Earth 91569-10-30 12:14 G 35166252.94 35166253.01 35166253.09 0.2632 0.1930

Moon 91569-10-30 12:43 G 35166252.95 35166253.03 35166253.11 0.2638 0.1846 *

Mars 91571-01-11 06:14 G 35166690.66 35166690.76 35166690.86 0.1585 0.0747

Jupiter 91572-08-08 07:55 G 35167265.74 35167265.83 35167265.93 0.0511 0.0435

Mars 91572-12-16 07:26 G 35167395.70 35167395.81 35167395.92 0.1587 0.0642

Moon 91573-05-06 00:58 G 35167536.39 35167536.54 35167536.69 0.2697 0.0334

Earth 91573-05-06 01:55 G 35167536.43 35167536.58 35167536.73 0.2702 0.0096 *

Mars 91575-09-28 09:50 G 35168411.76 35168411.91 35168412.07 0.1952 0.0737

Jupiter 91578-04-02 07:41 G 35169328.74 35169328.82 35169328.90 0.0515 0.0399

Jupiter 91578-06-30 12:00 G 35169417.90 35169418.00 35169418.11 0.0513 0.0275

Mars 91580-06-02 18:00 G 35170121.17 35170121.25 35170121.34 0.1585 0.1078

Mars 91582-05-08 18:58 G 35170826.18 35170826.29 35170826.41 0.1586 0.0299

Earth 91582-11-02 06:00 G 35171003.64 35171003.75 35171003.86 0.2631 0.0560

Moon 91582-11-02 06:43 G 35171003.67 35171003.78 35171003.89 0.2632 0.0513 *

Saturn 91582-12-19 13:26 G 35171050.94 35171051.06 35171051.18 0.0295 0.0224

Saturn 91583-03-18 15:22 G 35171139.95 35171140.14 35171140.32 0.0296 0.0008

Saturn 91583-06-15 16:34 G 35171229.07 35171229.19 35171229.32 0.0297 0.0219

Jupiter 91584-08-25 17:31 G 35171666.10 35171666.23 35171666.37 0.0513 0.0335

Venus 91588-06-29 11:31 G 35173069.96 35173069.98 35173070.01 0.3751 0.3679

Mars 91589-10-24 06:00 G 35173551.70 35173551.75 35173551.80 0.1586 0.1409

Jupiter 91590-04-18 16:19 G 35173728.05 35173728.18 35173728.30 0.0513 0.0100

Mars 91591-09-29 06:43 G 35174256.66 35174256.78 35174256.90 0.1585 0.0043

Uranus 91592-05-09 11:02 G 35174479.88 35174479.96 35174480.06 0.0135 0.0119

Uranus 91592-08-05 18:14 G 35174568.13 35174568.26 35174568.41 0.0135 0.0092

Uranus 91592-11-02 01:41 G 35174656.41 35174656.57 35174656.74 0.0135 0.0065

Uranus 91593-01-29 08:53 G 35174744.69 35174744.87 35174745.06 0.0135 0.0038

Uranus 91593-04-27 16:05 G 35174832.98 35174833.17 35174833.36 0.0135 0.0012

Uranus 91593-07-24 23:17 G 35174921.28 35174921.47 35174921.66 0.0135 0.0015

Mars 91593-09-03 08:24 G 35174961.79 35174961.85 35174961.90 0.1589 0.1372

Uranus 91593-10-21 06:14 G 35175009.58 35175009.76 35175009.94 0.0135 0.0042

Uranus 91594-01-17 13:12 G 35175097.89 35175098.05 35175098.22 0.0135 0.0068

Uranus 91594-04-15 20:24 G 35175186.22 35175186.35 35175186.48 0.0135 0.0094

Uranus 91594-07-13 03:22 G 35175274.56 35175274.64 35175274.72 0.0135 0.0120

Earth 91595-11-04 23:46 G 35175754.39 35175754.49 35175754.60 0.2630 0.0832

Moon 91595-11-05 00:29 G 35175754.42 35175754.52 35175754.63 0.2628 0.0985 *

Saturn 91596-04-26 05:31 G 35175927.64 35175927.73 35175927.82 0.0268 0.0195

Jupiter 91596-06-13 14:53 G 35175975.94 35175976.12 35175976.30 0.0513 0.0099

Mars 91596-06-17 02:24 G 35175979.56 35175979.60 35175979.64 0.1950 0.1877

Saturn 91596-07-23 15:36 G 35176016.03 35176016.15 35176016.28 0.0267 0.0082

Venus 91596-10-17 01:55 G 35176101.52 35176101.58 35176101.65 0.3623 0.2737

Saturn 91596-10-20 01:41 G 35176104.44 35176104.57 35176104.70 0.0267 0.0031

Saturn 91597-01-16 11:31 G 35176192.88 35176192.98 35176193.10 0.0266 0.0144

Saturn 91597-04-14 21:50 G 35176281.38 35176281.41 35176281.44 0.0265 0.0255

Mars 91601-02-18 18:29 G 35177687.15 35177687.27 35177687.38 0.1585 0.0383

Jupiter 91602-02-04 20:53 G 35178038.25 35178038.37 35178038.50 0.0513 0.0067

Venus 91602-05-02 16:48 G 35178125.10 35178125.20 35178125.30 0.3622 0.0734

Mars 91603-01-24 19:55 G 35178392.24 35178392.33 35178392.42 0.1587 0.1021

Mars 91605-11-06 18:43 G 35179409.12 35179409.28 35179409.43 0.1951 0.0622

Earth 91606-05-04 01:55 G 35179587.54 35179587.58 35179587.63 0.2701 0.2564

Moon 91606-05-04 01:55 G 35179587.55 35179587.58 35179587.60 0.2694 0.2658 *

Venus 91607-11-16 07:41 G 35180148.73 35180148.82 35180148.92 0.3621 0.1294

Neptune 91608-02-13 08:10 G 35180237.81 35180237.84 35180237.89 0.0088 0.0083

Jupiter 91608-04-01 11:31 G 35180285.81 35180285.98 35180286.16 0.0512 0.0147

Neptune 91608-05-11 09:36 G 35180325.84 35180325.90 35180325.97 0.0088 0.0076

Neptune 91608-08-07 10:48 G 35180413.88 35180413.95 35180414.04 0.0088 0.0069

Neptune 91608-11-03 12:14 G 35180501.92 35180502.01 35180502.11 0.0088 0.0062

Moon 91608-11-06 17:46 G 35180505.18 35180505.24 35180505.31 0.2623 0.2187

Earth 91608-11-06 17:46 G 35180505.18 35180505.24 35180505.30 0.2630 0.2230 *

Neptune 91609-01-30 13:26 G 35180589.96 35180590.06 35180590.17 0.0088 0.0055

Neptune 91609-04-28 14:38 G 35180678.01 35180678.11 35180678.23 0.0088 0.0048

Neptune 91609-07-25 16:05 G 35180766.06 35180766.17 35180766.29 0.0088 0.0041

Neptune 91609-10-21 17:17 G 35180854.10 35180854.22 35180854.35 0.0088 0.0034

Neptune 91610-01-17 18:43 G 35180942.15 35180942.28 35180942.41 0.0088 0.0027

Neptune 91610-04-15 19:55 G 35181030.21 35181030.33 35181030.47 0.0088 0.0020

Mars 91610-07-12 06:14 G 35181117.65 35181117.76 35181117.86 0.1585 0.0717

Neptune 91610-07-12 21:22 G 35181118.26 35181118.39 35181118.52 0.0088 0.0012

Neptune 91610-10-08 22:48 G 35181206.31 35181206.45 35181206.58 0.0088 0.0006

Neptune 91611-01-05 00:00 G 35181294.37 35181294.50 35181294.64 0.0088 0.0002

Neptune 91611-04-03 01:12 G 35181382.42 35181382.55 35181382.69 0.0088 0.0010

Neptune 91611-06-30 02:38 G 35181470.48 35181470.61 35181470.74 0.0088 0.0016

Neptune 91611-09-26 03:50 G 35181558.54 35181558.66 35181558.80 0.0088 0.0024

Neptune 91611-12-23 05:17 G 35181646.60 35181646.72 35181646.85 0.0088 0.0031

Neptune 91612-03-20 06:43 G 35181734.66 35181734.78 35181734.90 0.0088 0.0038

Mars 91612-06-16 07:26 G 35181822.70 35181822.81 35181822.91 0.1587 0.0671

Neptune 91612-06-16 07:55 G 35181822.72 35181822.83 35181822.95 0.0088 0.0045 *

Saturn 91612-08-04 11:02 G 35181871.79 35181871.96 35181872.14 0.0295 0.0086

Neptune 91612-09-12 09:07 G 35181910.78 35181910.88 35181911.00 0.0088 0.0053

Saturn 91612-11-01 12:43 G 35181960.87 35181961.03 35181961.19 0.0296 0.0136

Neptune 91612-12-09 10:34 G 35181998.85 35181998.94 35181999.05 0.0088 0.0060

Neptune 91613-03-07 12:00 G 35182086.92 35182087.00 35182087.09 0.0088 0.0067

Venus 91613-05-31 22:34 G 35182172.41 35182172.44 35182172.48 0.3620 0.3323

Neptune 91613-06-03 13:26 G 35182174.99 35182175.06 35182175.13 0.0088 0.0074

Neptune 91613-08-30 14:53 G 35182263.07 35182263.12 35182263.17 0.0088 0.0081

Jupiter 91613-11-24 01:41 G 35182348.45 35182348.57 35182348.68 0.0514 0.0231

Jupiter 91614-02-21 06:00 G 35182437.69 35182437.75 35182437.82 0.0512 0.0443

Mars 91615-03-29 10:19 G 35182838.78 35182838.93 35182839.09 0.1952 0.0677

Earth 91615-10-31 17:02 G 35183055.13 35183055.21 35183055.30 0.2632 0.1657

Moon 91615-10-31 17:31 G 35183055.14 35183055.23 35183055.32 0.2637 0.1625 *

Moon 91619-05-07 07:12 G 35184338.64 35184338.80 35184338.95 0.2698 0.0387

Earth 91619-05-07 08:24 G 35184338.70 35184338.85 35184339.00 0.2702 0.0459 *

Mars 91619-12-02 18:00 G 35184548.17 35184548.25 35184548.34 0.1585 0.1049

Jupiter 91620-01-19 07:55 G 35184595.72 35184595.83 35184595.95 0.0511 0.0396

Mars 91621-11-06 18:58 G 35185253.18 35185253.29 35185253.41 0.1586 0.0331

Jupiter 91625-09-12 06:29 G 35186658.69 35186658.77 35186658.85 0.0515 0.0390

Saturn 91625-09-13 07:26 G 35186659.76 35186659.81 35186659.88 0.0268 0.0236

Jupiter 91625-12-10 11:02 G 35186747.85 35186747.96 35186748.06 0.0513 0.0285

Saturn 91625-12-10 17:31 G 35186748.12 35186748.23 35186748.35 0.0267 0.0122

Saturn 91626-03-09 03:36 G 35186836.52 35186836.65 35186836.79 0.0266 0.0011

Saturn 91626-06-05 13:41 G 35186924.95 35186925.07 35186925.19 0.0266 0.0103

Saturn 91626-09-01 23:46 G 35187013.42 35187013.49 35187013.57 0.0265 0.0215

Earth 91628-11-02 10:48 G 35187805.84 35187805.95 35187806.06 0.2631 0.0296

Moon 91628-11-02 11:31 G 35187805.87 35187805.98 35187806.10 0.2631 0.0166 *

Mars 91629-04-24 06:00 G 35187978.69 35187978.75 35187978.80 0.1585 0.1380

Mars 91631-03-30 06:43 G 35188683.66 35188683.78 35188683.90 0.1585 0.0019

Jupiter 91632-02-05 16:48 G 35188996.07 35188996.20 35188996.33 0.0513 0.0357

Mars 91633-03-04 08:24 G 35189388.79 35189388.85 35189388.90 0.1589 0.1404

Uranus 91634-08-11 05:31 G 35189913.69 35189913.73 35189913.77 0.0143 0.0135

Uranus 91634-11-07 09:07 G 35190001.80 35190001.88 35190001.96 0.0143 0.0113

Uranus 91635-02-03 12:43 G 35190089.93 35190090.03 35190090.13 0.0143 0.0091

Uranus 91635-05-02 16:19 G 35190178.07 35190178.18 35190178.30 0.0143 0.0070

Uranus 91635-07-29 19:55 G 35190266.21 35190266.33 35190266.46 0.0143 0.0047

Uranus 91635-10-25 23:31 G 35190354.35 35190354.48 35190354.61 0.0143 0.0025

Uranus 91636-01-22 03:07 G 35190442.50 35190442.63 35190442.76 0.0143 0.0003

Uranus 91636-04-19 06:43 G 35190530.65 35190530.78 35190530.92 0.0143 0.0020

Uranus 91636-07-16 10:19 G 35190618.81 35190618.93 35190619.06 0.0143 0.0042

Uranus 91636-10-12 13:55 G 35190706.97 35190707.08 35190707.21 0.0143 0.0065

Uranus 91637-01-08 17:46 G 35190795.14 35190795.24 35190795.35 0.0144 0.0087

Uranus 91637-04-06 21:22 G 35190883.31 35190883.39 35190883.48 0.0144 0.0110

Uranus 91637-07-04 00:58 G 35190971.50 35190971.54 35190971.60 0.0144 0.0133

Jupiter 91637-09-28 15:50 G 35191058.04 35191058.16 35191058.29 0.0513 0.0126

Mars 91640-08-19 18:29 G 35192114.15 35192114.27 35192114.38 0.1585 0.0349

Earth 91641-11-05 04:48 G 35192556.59 35192556.70 35192556.80 0.2630 0.1111

Moon 91641-11-05 05:17 G 35192556.62 35192556.72 35192556.82 0.2627 0.1126 *

Saturn 91641-12-22 05:31 G 35192603.59 35192603.73 35192603.89 0.0295 0.0177

Saturn 91642-03-21 07:26 G 35192692.62 35192692.81 35192692.99 0.0296 0.0045

Saturn 91642-06-18 08:53 G 35192781.79 35192781.87 35192781.95 0.0297 0.0265

Mars 91642-07-25 19:55 G 35192819.24 35192819.33 35192819.41 0.1588 0.1053

Jupiter 91643-11-24 13:55 G 35193305.91 35193306.08 35193306.26 0.0513 0.0121

Venus 91645-02-03 14:38 G 35193742.95 35193743.11 35193743.27 0.3751 0.0787

Mars 91645-05-07 19:26 G 35193836.16 35193836.31 35193836.46 0.1951 0.0701

Jupiter 91649-07-17 20:10 G 35195368.21 35195368.34 35195368.47 0.0513 0.0046

Mars 91650-01-10 06:14 G 35195544.65 35195544.76 35195544.86 0.1585 0.0686

Mars 91651-12-16 07:26 G 35196249.70 35196249.81 35196249.92 0.1587 0.0706

Moon 91652-05-04 08:10 G 35196389.74 35196389.84 35196389.94 0.2694 0.2002

Earth 91652-05-04 08:24 G 35196389.75 35196389.85 35196389.96 0.2701 0.2006 *

Venus 91653-05-23 23:17 G 35196774.39 35196774.47 35196774.55 0.3623 0.1994

Mars 91654-09-27 11:31 G 35197265.83 35197265.98 35197266.14 0.1952 0.0583

Earth 91654-11-07 22:34 G 35197307.41 35197307.44 35197307.47 0.2630 0.2516

Moon 91654-11-07 22:34 G 35197307.43 35197307.44 35197307.46 0.2623 0.2584 *

Saturn 91655-04-29 19:41 G 35197480.22 35197480.32 35197480.43 0.0268 0.0164

Saturn 91655-07-27 05:46 G 35197568.61 35197568.74 35197568.87 0.0268 0.0050

Jupiter 91655-09-12 11:02 G 35197615.78 35197615.96 35197616.14 0.0513 0.0119

Saturn 91655-10-23 15:50 G 35197657.03 35197657.16 35197657.29 0.0267 0.0063

Saturn 91656-01-20 01:55 G 35197745.48 35197745.58 35197745.68 0.0266 0.0175

Venus 91658-12-07 14:10 G 35198797.99 35198798.09 35198798.19 0.3621 0.0058

Mars 91659-06-02 18:00 G 35198975.16 35198975.25 35198975.34 0.1585 0.1021

Jupiter 91661-05-06 00:43 G 35199678.42 35199678.53 35199678.65 0.0514 0.0212

Mars 91661-05-07 18:58 G 35199680.17 35199680.29 35199680.41 0.1586 0.0359

Jupiter 91661-08-03 05:17 G 35199767.67 35199767.72 35199767.77 0.0512 0.0460

Earth 91661-10-31 21:50 G 35199857.32 35199857.41 35199857.51 0.2632 0.1388

Moon 91661-10-31 22:34 G 35199857.34 35199857.44 35199857.53 0.2636 0.1321 *

Pluto 91662-06-19 15:07 G 35200088.05 35200088.13 35200088.23 0.0061 0.0053

Pluto 91662-09-15 16:05 G 35200176.06 35200176.17 35200176.32 0.0061 0.0043

Pluto 91662-12-12 17:31 G 35200264.08 35200264.23 35200264.39 0.0061 0.0032

Pluto 91663-03-10 18:29 G 35200352.11 35200352.27 35200352.45 0.0061 0.0021

Pluto 91663-06-06 19:41 G 35200440.15 35200440.32 35200440.50 0.0062 0.0011

Pluto 91663-09-02 20:53 G 35200528.19 35200528.37 35200528.55 0.0062 0.0001

Pluto 91663-11-29 21:50 G 35200616.24 35200616.41 35200616.60 0.0062 0.0011

Mars 91664-02-17 02:53 G 35200695.59 35200695.62 35200695.65 0.1952 0.1914

Pluto 91664-02-25 23:02 G 35200704.30 35200704.46 35200704.64 0.0062 0.0021

Pluto 91664-05-24 00:00 G 35200792.36 35200792.50 35200792.67 0.0062 0.0032

Venus 91664-06-22 05:02 G 35200821.62 35200821.71 35200821.79 0.3621 0.2030

Pluto 91664-08-20 01:26 G 35200880.43 35200880.56 35200880.69 0.0062 0.0042

Pluto 91664-11-16 02:10 G 35200968.52 35200968.59 35200968.70 0.0062 0.0053

Moon 91665-05-07 13:26 G 35201140.92 35201141.06 35201141.21 0.2698 0.0729

Earth 91665-05-07 14:53 G 35201140.98 35201141.12 35201141.27 0.2702 0.1019 *

Jupiter 91667-07-01 07:41 G 35201925.69 35201925.82 35201925.95 0.0512 0.0365

Mars 91668-10-23 05:46 G 35202405.69 35202405.74 35202405.80 0.1586 0.1351

Mars 91670-09-28 06:43 G 35203110.66 35203110.78 35203110.90 0.1585 0.0039

Saturn 91671-05-11 01:55 G 35203335.49 35203335.58 35203335.68 0.0294 0.0255

Saturn 91671-08-08 03:36 G 35203424.47 35203424.65 35203424.84 0.0295 0.0035

Saturn 91671-11-05 05:02 G 35203513.57 35203513.71 35203513.86 0.0296 0.0187

Mars 91672-09-02 08:10 G 35203815.80 35203815.84 35203815.89 0.1589 0.1435

Jupiter 91673-02-22 05:31 G 35203988.64 35203988.73 35203988.81 0.0514 0.0377

Jupiter 91673-05-22 09:50 G 35204077.81 35204077.91 35204078.02 0.0512 0.0295

Earth 91674-11-03 15:36 G 35204608.04 35204608.15 35204608.27 0.2631 0.0110

Moon 91674-11-03 16:34 G 35204608.07 35204608.19 35204608.30 0.2631 0.0102 *

Uranus 91676-05-29 18:29 G 35205181.17 35205181.27 35205181.38 0.0135 0.0111

Uranus 91676-08-26 01:41 G 35205269.43 35205269.57 35205269.73 0.0135 0.0084

Uranus 91676-11-22 09:07 G 35205357.71 35205357.88 35205358.05 0.0135 0.0057

Uranus 91677-02-18 16:05 G 35205445.99 35205446.17 35205446.36 0.0135 0.0031

Uranus 91677-05-17 23:31 G 35205534.28 35205534.48 35205534.67 0.0135 0.0005

Uranus 91677-08-14 06:29 G 35205622.58 35205622.77 35205622.96 0.0135 0.0023

Uranus 91677-11-10 13:26 G 35205710.89 35205711.06 35205711.25 0.0135 0.0050

Uranus 91678-02-06 20:24 G 35205799.21 35205799.35 35205799.52 0.0135 0.0076

Uranus 91678-05-06 03:36 G 35205887.53 35205887.65 35205887.78 0.0135 0.0102

Uranus 91678-08-02 10:34 G 35205975.89 35205975.94 35205976.00 0.0135 0.0128

Jupiter 91679-07-18 16:34 G 35206326.08 35206326.19 35206326.31 0.0513 0.0395

Mars 91680-02-18 18:29 G 35206541.15 35206541.27 35206541.38 0.1585 0.0321

Mars 91682-01-23 19:55 G 35207246.24 35207246.33 35207246.41 0.1588 0.1085

Saturn 91684-09-15 21:50 G 35208212.32 35208212.41 35208212.49 0.0268 0.0204

Mars 91684-11-05 20:24 G 35208263.20 35208263.35 35208263.50 0.1952 0.0783

Saturn 91684-12-13 07:55 G 35208300.70 35208300.83 35208300.95 0.0267 0.0090

Jupiter 91685-03-10 14:38 G 35208387.99 35208388.11 35208388.24 0.0513 0.0136

Saturn 91685-03-11 18:00 G 35208389.12 35208389.25 35208389.38 0.0267 0.0024

Saturn 91685-06-08 04:05 G 35208477.56 35208477.67 35208477.78 0.0266 0.0136

Saturn 91685-09-04 14:10 G 35208566.05 35208566.09 35208566.13 0.0265 0.0248

Earth 91687-11-06 09:36 G 35209358.80 35209358.90 35209358.99 0.2630 0.1389

Moon 91687-11-06 09:50 G 35209358.82 35209358.91 35209359.01 0.2625 0.1500 *

Mars 91689-07-11 06:14 G 35209971.65 35209971.76 35209971.86 0.1585 0.0657

Jupiter 91691-05-06 12:58 G 35210635.87 35210636.04 35210636.22 0.0513 0.0141

Mars 91691-06-16 07:26 G 35210676.70 35210676.81 35210676.91 0.1587 0.0737

Neptune 91691-08-03 00:43 G 35210724.49 35210724.53 35210724.62 0.0090 0.0085

Neptune 91691-10-30 04:34 G 35210812.60 35210812.69 35210812.81 0.0090 0.0074

Neptune 91692-01-26 08:10 G 35210900.72 35210900.84 35210900.99 0.0090 0.0063

Neptune 91692-04-23 11:46 G 35210988.85 35210988.99 35210989.16 0.0090 0.0052

Neptune 91692-07-20 15:36 G 35211076.99 35211077.15 35211077.33 0.0090 0.0041

Neptune 91692-10-16 19:12 G 35211165.13 35211165.30 35211165.49 0.0090 0.0030

Neptune 91693-01-12 22:48 G 35211253.27 35211253.45 35211253.64 0.0090 0.0019

Neptune 91693-04-11 02:24 G 35211341.41 35211341.60 35211341.79 0.0090 0.0008

Neptune 91693-07-08 06:00 G 35211429.56 35211429.75 35211429.94 0.0090 0.0003

Neptune 91693-10-04 09:36 G 35211517.71 35211517.90 35211518.09 0.0090 0.0014

Neptune 91693-12-31 12:58 G 35211605.86 35211606.04 35211606.23 0.0090 0.0025

Mars 91694-03-28 12:29 G 35211692.86 35211693.02 35211693.18 0.1952 0.0507

Neptune 91694-03-29 16:19 G 35211694.02 35211694.18 35211694.37 0.0090 0.0036

Neptune 91694-06-25 20:10 G 35211782.18 35211782.34 35211782.50 0.0090 0.0046

Neptune 91694-09-21 23:31 G 35211870.34 35211870.48 35211870.63 0.0090 0.0057

Earth 91694-10-30 09:07 G 35211908.84 35211908.88 35211908.91 0.2633 0.2467

Moon 91694-10-30 09:07 G 35211908.85 35211908.88 35211908.91 0.2640 0.2510 *

Neptune 91694-12-19 02:53 G 35211958.51 35211958.62 35211958.75 0.0090 0.0068

Neptune 91695-03-17 06:43 G 35212046.69 35212046.78 35212046.87 0.0090 0.0078

Neptune 91695-06-13 09:50 G 35212134.90 35212134.91 35212134.94 0.0090 0.0089

Jupiter 91696-12-27 19:41 G 35212698.19 35212698.32 35212698.45 0.0514 0.0024

Moon 91698-05-05 14:24 G 35213191.97 35213192.10 35213192.23 0.2695 0.1528

Earth 91698-05-05 15:07 G 35213192.00 35213192.13 35213192.26 0.2701 0.1428 *

Mars 91698-12-01 18:00 G 35213402.16 35213402.25 35213402.34 0.1585 0.0988

Mars 91700-11-06 18:58 G 35214107.18 35214107.29 35214107.41 0.1586 0.0392

Saturn 91700-12-25 22:34 G 35214156.28 35214156.44 35214156.61 0.0295 0.0123

Saturn 91701-03-25 00:14 G 35214245.34 35214245.51 35214245.68 0.0296 0.0098

Venus 91701-09-11 17:46 G 35214416.11 35214416.24 35214416.37 0.3752 0.2144

Jupiter 91703-02-23 10:05 G 35214945.74 35214945.92 35214946.10 0.0512 0.0099

Mars 91703-08-19 03:50 G 35215122.61 35215122.66 35215122.72 0.1952 0.1823

Venus 91704-06-15 05:46 G 35215423.70 35215423.74 35215423.78 0.3623 0.3267

Earth 91707-11-03 02:53 G 35216659.52 35216659.62 35216659.72 0.2632 0.1112

Moon 91707-11-03 03:22 G 35216659.54 35216659.64 35216659.75 0.2635 0.0991 *

Mars 91708-04-24 05:46 G 35216832.68 35216832.74 35216832.80 0.1585 0.1322

Jupiter 91708-10-17 00:00 G 35217008.39 35217008.50 35217008.62 0.0514 0.0194

Jupiter 91709-01-14 04:34 G 35217097.65 35217097.69 35217097.73 0.0511 0.0477

Venus 91709-12-29 20:38 G 35217447.26 35217447.36 35217447.45 0.3622 0.1272

Mars 91710-03-30 06:43 G 35217537.66 35217537.78 35217537.90 0.1585 0.0057

Moon 91711-05-09 19:55 G 35217943.20 35217943.33 35217943.46 0.2699 0.1447

Earth 91711-05-09 21:22 G 35217943.27 35217943.39 35217943.52 0.2702 0.1565 *

Mars 91712-03-04 08:24 G 35218242.80 35218242.85 35218242.89 0.1589 0.1468

Saturn 91714-02-04 00:00 G 35218944.45 35218944.50 35218944.55 0.0269 0.0246

Saturn 91714-05-03 10:05 G 35219032.80 35219032.92 35219033.03 0.0268 0.0132

Saturn 91714-07-30 20:10 G 35219121.20 35219121.34 35219121.47 0.0268 0.0019

Saturn 91714-10-27 06:14 G 35219209.63 35219209.76 35219209.88 0.0267 0.0096

Jupiter 91714-12-12 06:43 G 35219255.65 35219255.78 35219255.92 0.0512 0.0343

Saturn 91715-01-23 16:19 G 35219298.10 35219298.18 35219298.26 0.0266 0.0209

Venus 91715-07-15 11:17 G 35219470.87 35219470.97 35219471.07 0.3621 0.0747

Uranus 91718-09-01 12:58 G 35220614.99 35220615.04 35220615.11 0.0143 0.0128

Uranus 91718-11-28 16:34 G 35220703.11 35220703.19 35220703.29 0.0143 0.0107

Uranus 91719-02-24 20:10 G 35220791.24 35220791.34 35220791.46 0.0143 0.0085

Uranus 91719-05-23 23:46 G 35220879.38 35220879.49 35220879.62 0.0143 0.0063

Uranus 91719-08-20 03:36 G 35220967.52 35220967.65 35220967.78 0.0143 0.0040

Mars 91719-08-20 18:29 G 35220968.15 35220968.27 35220968.38 0.1585 0.0296

Uranus 91719-11-16 07:12 G 35221055.67 35221055.80 35221055.93 0.0143 0.0018

Uranus 91720-02-12 10:48 G 35221143.82 35221143.95 35221144.09 0.0143 0.0006

Uranus 91720-05-10 14:24 G 35221231.97 35221232.10 35221232.24 0.0143 0.0028

Jupiter 91720-08-05 04:48 G 35221318.61 35221318.70 35221318.79 0.0514 0.0358

Uranus 91720-08-06 18:14 G 35221320.13 35221320.26 35221320.38 0.0144 0.0050

Jupiter 91720-11-02 09:07 G 35221407.78 35221407.88 35221407.98 0.0512 0.0312

Uranus 91720-11-02 21:50 G 35221408.30 35221408.41 35221408.53 0.0144 0.0072

Earth 91720-11-04 20:38 G 35221410.24 35221410.36 35221410.47 0.2631 0.0283

Moon 91720-11-04 21:22 G 35221410.27 35221410.39 35221410.50 0.2630 0.0402 *

Venus 91721-01-28 02:10 G 35221494.53 35221494.59 35221494.66 0.3621 0.2769

Uranus 91721-01-30 01:41 G 35221496.47 35221496.57 35221496.66 0.0144 0.0095

Uranus 91721-04-28 05:17 G 35221584.65 35221584.72 35221584.80 0.0144 0.0118

Uranus 91721-07-25 08:53 G 35221672.85 35221672.87 35221672.90 0.0144 0.0141

Mars 91721-07-25 19:55 G 35221673.24 35221673.33 35221673.41 0.1587 0.1118

Mars 91724-05-07 21:07 G 35222690.23 35222690.38 35222690.53 0.1951 0.0852

Jupiter 91726-12-29 16:05 G 35223656.07 35223656.17 35223656.27 0.0514 0.0420

Mars 91729-01-10 06:00 G 35224398.65 35224398.75 35224398.86 0.1585 0.0629

Saturn 91730-05-14 19:26 G 35224888.17 35224888.31 35224888.45 0.0294 0.0197

Saturn 91730-08-11 21:07 G 35224977.19 35224977.38 35224977.56 0.0295 0.0024

Saturn 91730-11-08 22:34 G 35225066.33 35225066.44 35225066.54 0.0296 0.0244

Mars 91730-12-16 07:26 G 35225103.70 35225103.81 35225103.91 0.1586 0.0767

Jupiter 91732-08-21 13:41 G 35225717.94 35225718.07 35225718.19 0.0513 0.0145

Mars 91733-09-27 12:58 G 35226119.88 35226120.04 35226120.20 0.1952 0.0437

Earth 91733-11-07 14:24 G 35226161.01 35226161.10 35226161.18 0.2630 0.1669

Moon 91733-11-07 14:38 G 35226161.03 35226161.11 35226161.20 0.2624 0.1681 *

Mars 91738-06-02 18:00 G 35227829.16 35227829.25 35227829.34 0.1585 0.0960

Jupiter 91738-10-17 12:43 G 35227965.85 35227966.03 35227966.20 0.0513 0.0172

Mars 91740-05-07 18:58 G 35228534.17 35228534.29 35228534.40 0.1586 0.0423

Moon 91740-10-31 14:10 G 35228711.02 35228711.09 35228711.15 0.2639 0.2127

Earth 91740-10-31 13:55 G 35228711.02 35228711.08 35228711.14 0.2633 0.2200 *

Mars 91743-02-17 04:48 G 35229549.63 35229549.70 35229549.78 0.1952 0.1739

Saturn 91743-09-20 12:14 G 35229764.91 35229765.01 35229765.11 0.0268 0.0169

Saturn 91743-12-17 22:19 G 35229853.30 35229853.43 35229853.56 0.0268 0.0055

Saturn 91744-03-15 08:24 G 35229941.73 35229941.85 35229941.98 0.0267 0.0059

Moon 91744-05-06 20:38 G 35229994.22 35229994.36 35229994.51 0.2696 0.1027

Earth 91744-05-06 21:50 G 35229994.26 35229994.41 35229994.55 0.2701 0.0854 *

Jupiter 91744-06-09 18:29 G 35230028.14 35230028.27 35230028.39 0.0514 0.0022

Saturn 91744-06-11 18:29 G 35230030.18 35230030.27 35230030.38 0.0266 0.0172

Mars 91747-10-24 05:46 G 35231259.68 35231259.74 35231259.81 0.1585 0.1290

Mars 91749-09-28 06:43 G 35231964.66 35231964.78 35231964.89 0.1585 0.0089

Jupiter 91750-08-05 08:38 G 35232275.68 35232275.86 35232276.05 0.0512 0.0084

Mars 91751-09-03 08:24 G 35232669.81 35232669.85 35232669.88 0.1589 0.1501

Earth 91753-11-03 07:41 G 35233461.71 35233461.82 35233461.92 0.2632 0.0835

Moon 91753-11-03 08:24 G 35233461.74 35233461.85 35233461.95 0.2634 0.0784 *

Pluto 91755-01-19 01:12 G 35233903.49 35233903.55 35233903.61 0.0083 0.0074

Pluto 91755-04-17 02:24 G 35233991.50 35233991.60 35233991.71 0.0083 0.0054

Pluto 91755-07-14 03:50 G 35234079.54 35234079.66 35234079.79 0.0083 0.0034

Pluto 91755-10-10 05:17 G 35234167.58 35234167.72 35234167.86 0.0083 0.0014

Pluto 91756-01-06 06:29 G 35234255.63 35234255.77 35234255.91 0.0083 0.0006

Jupiter 91756-03-28 23:17 G 35234338.35 35234338.47 35234338.59 0.0514 0.0177

Pluto 91756-04-03 07:41 G 35234343.70 35234343.82 35234343.96 0.0082 0.0027

Jupiter 91756-06-26 03:36 G 35234427.63 35234427.65 35234427.69 0.0512 0.0496

Pluto 91756-06-30 08:53 G 35234431.77 35234431.87 35234432.00 0.0082 0.0047

Pluto 91756-09-26 10:05 G 35234519.86 35234519.92 35234520.02 0.0082 0.0067

Moon 91757-05-10 02:38 G 35234745.50 35234745.61 35234745.71 0.2700 0.1876

Earth 91757-05-10 04:05 G 35234745.57 35234745.67 35234745.76 0.2702 0.2128 *

Mars 91759-02-18 18:29 G 35235395.15 35235395.27 35235395.38 0.1585 0.0265

Saturn 91759-10-01 15:22 G 35235620.08 35235620.14 35235620.20 0.0294 0.0278

Saturn 91759-12-29 17:02 G 35235709.03 35235709.21 35235709.39 0.0295 0.0058

Uranus 91760-03-23 18:43 G 35235794.24 35235794.28 35235794.35 0.0135 0.0129

Saturn 91760-03-27 18:14 G 35235798.12 35235798.26 35235798.42 0.0296 0.0163

Uranus 91760-06-20 02:10 G 35235882.48 35235882.59 35235882.73 0.0135 0.0102

Uranus 91760-09-16 09:22 G 35235970.74 35235970.89 35235971.06 0.0135 0.0075

Uranus 91760-12-13 16:48 G 35236059.02 35236059.20 35236059.38 0.0135 0.0048

Venus 91761-01-20 02:53 G 35236096.55 35236096.62 35236096.69 0.3623 0.2533

Mars 91761-01-23 19:41 G 35236100.24 35236100.32 35236100.41 0.1587 0.1149

Uranus 91761-03-12 00:00 G 35236147.31 35236147.50 35236147.69 0.0135 0.0021

Uranus 91761-06-08 07:12 G 35236235.61 35236235.80 35236235.99 0.0135 0.0006

Uranus 91761-09-04 14:10 G 35236323.91 35236324.09 35236324.28 0.0135 0.0033

Uranus 91761-12-01 21:22 G 35236412.22 35236412.39 35236412.56 0.0135 0.0059

Uranus 91762-02-28 04:19 G 35236500.54 35236500.68 35236500.83 0.0134 0.0085

Jupiter 91762-05-24 05:31 G 35236585.59 35236585.73 35236585.87 0.0512 0.0326

Uranus 91762-05-27 11:31 G 35236588.87 35236588.98 35236589.08 0.0134 0.0111

Mars 91763-11-06 21:50 G 35237117.27 35237117.41 35237117.56 0.1951 0.0932

Venus 91766-08-05 17:46 G 35238120.14 35238120.24 35238120.34 0.3622 0.0542

Earth 91766-11-06 01:26 G 35238212.45 35238212.56 35238212.67 0.2631 0.0556

Moon 91766-11-06 01:55 G 35238212.47 35238212.58 35238212.69 0.2629 0.0658 *

Jupiter 91768-01-16 03:50 G 35238648.56 35238648.66 35238648.75 0.0514 0.0344

Jupiter 91768-04-14 08:10 G 35238737.74 35238737.84 35238737.94 0.0512 0.0326

Mars 91768-07-11 06:00 G 35238825.65 35238825.75 35238825.86 0.1585 0.0598

Mars 91770-06-16 07:26 G 35239530.70 35239530.81 35239530.91 0.1586 0.0801

Venus 91772-02-19 08:38 G 35240143.77 35240143.86 35240143.95 0.3621 0.1478

Neptune 91772-08-14 06:29 G 35240320.77 35240320.77 35240320.79 0.0088 0.0087

Neptune 91772-11-10 07:55 G 35240408.78 35240408.83 35240408.88 0.0088 0.0080

Neptune 91773-02-06 09:07 G 35240496.81 35240496.88 35240496.96 0.0088 0.0073

Saturn 91773-02-06 14:24 G 35240497.02 35240497.10 35240497.19 0.0269 0.0210

Mars 91773-03-28 14:10 G 35240546.92 35240547.09 35240547.25 0.1952 0.0355

Neptune 91773-05-05 10:34 G 35240584.85 35240584.94 35240585.03 0.0088 0.0066

Saturn 91773-05-06 00:29 G 35240585.40 35240585.52 35240585.65 0.0269 0.0096

Neptune 91773-08-01 11:46 G 35240672.90 35240672.99 35240673.09 0.0088 0.0059

Saturn 91773-08-02 10:48 G 35240673.81 35240673.95 35240674.08 0.0268 0.0021

Neptune 91773-10-28 12:58 G 35240760.94 35240761.04 35240761.15 0.0088 0.0052

Saturn 91773-10-29 20:53 G 35240762.25 35240762.37 35240762.48 0.0267 0.0133

Neptune 91774-01-24 14:24 G 35240848.99 35240849.10 35240849.22 0.0088 0.0045

Saturn 91774-01-26 06:58 G 35240850.74 35240850.79 35240850.84 0.0266 0.0246

Neptune 91774-04-22 15:36 G 35240937.04 35240937.15 35240937.28 0.0088 0.0038

Jupiter 91774-06-10 14:38 G 35240986.02 35240986.11 35240986.21 0.0514 0.0435

Neptune 91774-07-19 17:02 G 35241025.08 35241025.21 35241025.33 0.0088 0.0031

Neptune 91774-10-15 18:14 G 35241113.13 35241113.26 35241113.39 0.0088 0.0024

Neptune 91775-01-11 19:41 G 35241201.19 35241201.32 35241201.45 0.0088 0.0017

Neptune 91775-04-09 20:53 G 35241289.24 35241289.37 35241289.51 0.0088 0.0010

Neptune 91775-07-06 22:19 G 35241377.29 35241377.43 35241377.56 0.0088 0.0002

Neptune 91775-10-02 23:31 G 35241465.35 35241465.48 35241465.62 0.0088 0.0005

Neptune 91775-12-30 00:58 G 35241553.41 35241553.54 35241553.67 0.0088 0.0012

Neptune 91776-03-27 02:10 G 35241641.46 35241641.59 35241641.73 0.0088 0.0019

Neptune 91776-06-23 03:22 G 35241729.52 35241729.64 35241729.78 0.0088 0.0027

Neptune 91776-09-19 04:48 G 35241817.58 35241817.70 35241817.83 0.0088 0.0033

Neptune 91776-12-16 06:00 G 35241905.64 35241905.75 35241905.88 0.0088 0.0041

Neptune 91777-03-14 07:26 G 35241993.70 35241993.81 35241993.93 0.0088 0.0048

Neptune 91777-06-10 08:53 G 35242081.77 35242081.87 35242081.98 0.0088 0.0055

Venus 91777-09-03 23:31 G 35242167.46 35242167.48 35242167.50 0.3620 0.3496

Neptune 91777-09-06 10:05 G 35242169.83 35242169.92 35242170.02 0.0088 0.0062

Mars 91777-12-01 18:00 G 35242256.15 35242256.25 35242256.34 0.1585 0.0933

Neptune 91777-12-03 11:17 G 35242257.90 35242257.97 35242258.07 0.0088 0.0070

Neptune 91778-03-01 12:43 G 35242345.98 35242346.03 35242346.10 0.0088 0.0077

Neptune 91778-05-28 14:10 G 35242434.06 35242434.09 35242434.13 0.0088 0.0084

Jupiter 91779-11-04 08:24 G 35242958.84 35242958.85 35242958.87 0.0514 0.0509

Mars 91779-11-06 18:58 G 35242961.18 35242961.29 35242961.40 0.1586 0.0454

Earth 91779-11-08 19:12 G 35242963.23 35242963.30 35242963.37 0.2630 0.1952

Moon 91779-11-08 19:26 G 35242963.24 35242963.31 35242963.38 0.2624 0.2024 *

Jupiter 91780-02-01 12:43 G 35243047.91 35243048.03 35243048.15 0.0512 0.0160

Mars 91782-08-18 05:31 G 35243976.65 35243976.73 35243976.81 0.1952 0.1672

Jupiter 91786-03-29 11:17 G 35245295.80 35245295.97 35245296.15 0.0513 0.0190

Earth 91786-11-01 18:43 G 35245513.21 35245513.28 35245513.36 0.2632 0.1925

Moon 91786-11-01 19:12 G 35245513.22 35245513.30 35245513.37 0.2638 0.1940 *

Mars 91787-04-24 05:46 G 35245686.67 35245686.74 35245686.81 0.1585 0.1261

Mars 91789-03-29 06:29 G 35246391.66 35246391.77 35246391.89 0.1585 0.0123

Saturn 91789-05-17 14:24 G 35246440.94 35246441.10 35246441.28 0.0294 0.0126

Saturn 91789-08-14 16:05 G 35246530.00 35246530.17 35246530.35 0.0295 0.0095

Moon 91790-05-08 03:07 G 35246796.48 35246796.63 35246796.78 0.2696 0.0387

Earth 91790-05-08 04:19 G 35246796.53 35246796.68 35246796.83 0.2701 0.0290 *

Mars 91791-03-04 08:10 G 35247096.81 35247096.84 35247096.87 0.1588 0.1530

Jupiter 91791-11-20 17:17 G 35247358.09 35247358.22 35247358.34 0.0513 0.0020

Jupiter 91798-01-15 07:55 G 35249605.65 35249605.83 35249606.01 0.0512 0.0060

Mars 91798-08-19 18:14 G 35249822.15 35249822.26 35249822.38 0.1585 0.0234

Earth 91799-11-04 12:29 G 35250263.91 35250264.02 35250264.13 0.2631 0.0559

Moon 91799-11-04 13:12 G 35250263.94 35250264.05 35250264.16 0.2634 0.0411 *

Mars 91800-07-25 19:41 G 35250527.25 35250527.32 35250527.40 0.1587 0.1180

Uranus 91802-06-26 17:02 G 35251228.21 35251228.21 35251228.22 0.0143 0.0143

Saturn 91802-06-27 17:02 G 35251229.16 35251229.21 35251229.26 0.0269 0.0245

Uranus 91802-09-22 20:38 G 35251316.30 35251316.36 35251316.43 0.0143 0.0121

Saturn 91802-09-24 03:07 G 35251317.52 35251317.63 35251317.75 0.0268 0.0130

Uranus 91802-12-20 00:14 G 35251404.42 35251404.51 35251404.61 0.0143 0.0099

Saturn 91802-12-21 13:12 G 35251405.92 35251406.05 35251406.19 0.0268 0.0017

Uranus 91803-03-18 03:50 G 35251492.55 35251492.66 35251492.77 0.0143 0.0077

Saturn 91803-03-19 23:17 G 35251494.35 35251494.47 35251494.60 0.0267 0.0099

Mars 91803-05-08 22:48 G 35251544.31 35251544.45 35251544.59 0.1952 0.1015

Moon 91803-05-12 08:53 G 35251547.82 35251547.87 35251547.93 0.2702 0.2482

Earth 91803-05-12 10:34 G 35251547.92 35251547.94 35251547.95 0.2702 0.2677 *

Uranus 91803-06-14 07:26 G 35251580.69 35251580.81 35251580.94 0.0143 0.0055

Saturn 91803-06-16 09:22 G 35251582.82 35251582.89 35251582.98 0.0266 0.0212

Jupiter 91803-09-09 21:50 G 35251668.29 35251668.41 35251668.53 0.0514 0.0174

Uranus 91803-09-10 11:02 G 35251668.83 35251668.96 35251669.09 0.0143 0.0033

Uranus 91803-12-07 14:53 G 35251756.98 35251757.12 35251757.25 0.0143 0.0011

Jupiter 91803-12-08 02:24 G 35251757.57 35251757.60 35251757.62 0.0512 0.0498

Uranus 91804-03-04 18:29 G 35251845.14 35251845.27 35251845.40 0.0144 0.0012

Uranus 91804-05-31 22:05 G 35251933.29 35251933.42 35251933.55 0.0144 0.0034

Uranus 91804-08-28 01:41 G 35252021.45 35252021.57 35252021.70 0.0144 0.0057

Uranus 91804-11-24 05:17 G 35252109.62 35252109.72 35252109.84 0.0144 0.0080

Uranus 91805-02-20 08:53 G 35252197.79 35252197.87 35252197.97 0.0144 0.0103

Uranus 91805-05-19 12:58 G 35252285.97 35252286.04 35252286.10 0.0144 0.0125

Mars 91808-01-11 06:00 G 35253252.64 35253252.75 35253252.86 0.1585 0.0566

Venus 91809-05-10 10:48 G 35253737.79 35253737.95 35253738.10 0.3751 0.1195

Jupiter 91809-11-04 03:50 G 35253915.52 35253915.66 35253915.80 0.0512 0.0318

Mars 91809-12-16 07:26 G 35253957.71 35253957.81 35253957.91 0.1586 0.0833

Mars 91812-09-27 14:53 G 35254973.96 35254974.12 35254974.29 0.1952 0.0271

Earth 91812-11-07 06:14 G 35255014.65 35255014.76 35255014.86 0.2631 0.0830

Moon 91812-11-07 06:43 G 35255014.68 35255014.78 35255014.89 0.2627 0.0881 *

Jupiter 91815-06-29 02:38 G 35255978.52 35255978.61 35255978.71 0.0514 0.0335

Jupiter 91815-09-26 07:12 G 35256067.70 35256067.80 35256067.89 0.0512 0.0337

Mars 91817-06-02 18:00 G 35256683.15 35256683.25 35256683.34 0.1585 0.0899

Venus 91817-08-28 00:14 G 35256769.42 35256769.51 35256769.59 0.3622 0.1811

Saturn 91818-10-05 11:02 G 35257172.83 35257172.96 35257173.10 0.0294 0.0200

Saturn 91819-01-02 12:43 G 35257261.85 35257262.03 35257262.22 0.0295 0.0020

Saturn 91819-04-01 13:55 G 35257350.98 35257351.08 35257351.19 0.0296 0.0240

Mars 91819-05-08 18:58 G 35257388.18 35257388.29 35257388.40 0.1586 0.0486

Jupiter 91821-11-21 12:58 G 35258315.96 35258316.04 35258316.14 0.0514 0.0444

Mars 91822-02-17 06:29 G 35258403.67 35258403.77 35258403.86 0.1952 0.1591

Venus 91823-03-13 14:53 G 35258793.02 35258793.12 35258793.23 0.3622 0.0252

Earth 91825-11-10 00:00 G 35259765.44 35259765.50 35259765.56 0.2630 0.2236

Moon 91825-11-10 00:14 G 35259765.46 35259765.51 35259765.57 0.2624 0.2259 *

Mars 91826-10-24 05:46 G 35260113.67 35260113.74 35260113.81 0.1585 0.1233

Jupiter 91827-04-17 07:26 G 35260288.78 35260288.81 35260288.83 0.0514 0.0500

Jupiter 91827-07-15 11:31 G 35260377.86 35260377.98 35260378.11 0.0512 0.0170

Venus 91828-09-26 06:00 G 35260816.67 35260816.75 35260816.82 0.3621 0.2221

Mars 91828-09-28 06:43 G 35260818.66 35260818.78 35260818.89 0.1585 0.0154

Mars 91830-09-03 08:24 G 35261523.83 35261523.85 35261523.86 0.1588 0.1566

Saturn 91832-02-11 05:31 G 35262049.63 35262049.73 35262049.84 0.0269 0.0168

Saturn 91832-05-09 15:50 G 35262138.03 35262138.16 35262138.29 0.0268 0.0053

Saturn 91832-08-06 01:55 G 35262226.45 35262226.58 35262226.71 0.0268 0.0062

Saturn 91832-11-02 12:00 G 35262314.90 35262315.00 35262315.10 0.0267 0.0176

Earth 91832-11-02 23:31 G 35262315.40 35262315.48 35262315.57 0.2632 0.1654

Moon 91832-11-03 00:00 G 35262315.41 35262315.50 35262315.59 0.2637 0.1531 *

Jupiter 91833-09-09 09:22 G 35262625.72 35262625.89 35262626.06 0.0514 0.0194

Mars 91836-03-15 17:31 G 35263544.22 35263544.23 35263544.25 0.1586 0.1562

Moon 91836-05-09 09:36 G 35263598.75 35263598.90 35263599.06 0.2696 0.0071

Earth 91836-05-09 10:48 G 35263598.80 35263598.95 35263599.10 0.2702 0.0270 *

Mars 91838-02-18 18:14 G 35264249.14 35264249.26 35264249.38 0.1585 0.0200

Jupiter 91839-05-03 16:19 G 35264688.05 35264688.18 35264688.30 0.0513 0.0016

Mars 91840-01-24 19:41 G 35264954.25 35264954.32 35264954.40 0.1587 0.1213

Mars 91842-11-06 23:31 G 35265971.35 35265971.48 35265971.62 0.1951 0.1083

Uranus 91844-04-14 02:38 G 35266495.54 35266495.61 35266495.71 0.0135 0.0119

Uranus 91844-07-11 10:05 G 35266583.79 35266583.92 35266584.07 0.0135 0.0092

Uranus 91844-10-07 17:31 G 35266672.06 35266672.23 35266672.40 0.0135 0.0065

Uranus 91845-01-04 00:43 G 35266760.35 35266760.53 35266760.71 0.0135 0.0038

Uranus 91845-04-02 07:55 G 35266848.64 35266848.83 35266849.02 0.0134 0.0011

Jupiter 91845-06-28 06:00 G 35266935.57 35266935.75 35266935.94 0.0513 0.0054

Uranus 91845-06-29 14:53 G 35266936.94 35266937.12 35266937.32 0.0134 0.0016

Uranus 91845-09-25 22:05 G 35267025.24 35267025.42 35267025.60 0.0134 0.0042

Earth 91845-11-05 17:17 G 35267066.11 35267066.22 35267066.33 0.2631 0.0280

Moon 91845-11-05 18:00 G 35267066.14 35267066.25 35267066.36 0.2633 0.0244 *

Uranus 91845-12-23 04:48 G 35267113.55 35267113.70 35267113.88 0.0134 0.0069

Uranus 91846-03-21 12:00 G 35267201.88 35267202.00 35267202.14 0.0134 0.0094

Uranus 91846-06-17 18:58 G 35267290.22 35267290.29 35267290.38 0.0134 0.0120

Mars 91847-07-12 06:00 G 35267679.64 35267679.75 35267679.86 0.1585 0.0535

Saturn 91848-02-22 09:36 G 35267904.82 35267904.90 35267904.99 0.0293 0.0259

Saturn 91848-05-21 11:17 G 35267993.79 35267993.97 35267994.16 0.0294 0.0039

Saturn 91848-08-18 12:43 G 35268082.88 35268083.03 35268083.18 0.0295 0.0180

Mars 91849-06-16 07:12 G 35268384.70 35268384.80 35268384.90 0.1586 0.0860

Jupiter 91851-02-19 20:38 G 35268998.24 35268998.36 35268998.48 0.0514 0.0171

Jupiter 91851-05-20 00:58 G 35269087.52 35269087.54 35269087.56 0.0511 0.0501

Mars 91852-03-28 15:22 G 35269400.98 35269401.14 35269401.31 0.1953 0.0213

Neptune 91856-04-30 23:02 G 35270895.39 35270895.46 35270895.55 0.0090 0.0081

Neptune 91856-07-28 02:38 G 35270983.50 35270983.61 35270983.74 0.0090 0.0070

Neptune 91856-10-24 06:14 G 35271071.63 35271071.76 35271071.92 0.0090 0.0059

Mars 91856-12-01 17:46 G 35271110.15 35271110.24 35271110.34 0.1585 0.0872

Neptune 91857-01-20 09:50 G 35271159.76 35271159.91 35271160.08 0.0090 0.0048

Jupiter 91857-04-16 02:24 G 35271245.45 35271245.60 35271245.75 0.0512 0.0304

Neptune 91857-04-18 13:41 G 35271247.90 35271248.07 35271248.25 0.0090 0.0037

Neptune 91857-07-15 17:17 G 35271336.04 35271336.22 35271336.41 0.0090 0.0026

Neptune 91857-10-11 20:53 G 35271424.18 35271424.37 35271424.56 0.0090 0.0015

Neptune 91858-01-08 00:29 G 35271512.33 35271512.52 35271512.71 0.0090 0.0004

Neptune 91858-04-06 04:05 G 35271600.48 35271600.67 35271600.86 0.0090 0.0007

Neptune 91858-07-03 07:26 G 35271688.63 35271688.81 35271689.00 0.0090 0.0018

Neptune 91858-09-29 10:48 G 35271776.78 35271776.95 35271777.14 0.0090 0.0029

Mars 91858-11-06 18:58 G 35271815.18 35271815.29 35271815.40 0.1586 0.0518

Earth 91858-11-08 11:02 G 35271816.86 35271816.96 35271817.06 0.2631 0.1110

Moon 91858-11-08 11:31 G 35271816.88 35271816.98 35271817.08 0.2626 0.1242 *

Neptune 91858-12-26 14:24 G 35271864.94 35271865.10 35271865.28 0.0090 0.0040

Neptune 91859-03-24 18:00 G 35271953.10 35271953.25 35271953.41 0.0090 0.0050

Neptune 91859-06-20 21:22 G 35272041.27 35272041.39 35272041.54 0.0090 0.0061

Neptune 91859-09-17 00:43 G 35272129.44 35272129.53 35272129.66 0.0090 0.0072

Neptune 91859-12-14 04:34 G 35272217.62 35272217.69 35272217.77 0.0090 0.0082

Saturn 91861-06-30 08:38 G 35272781.77 35272781.86 35272781.94 0.0269 0.0200

Mars 91861-08-18 07:41 G 35272830.71 35272830.82 35272830.92 0.1952 0.1496

Saturn 91861-09-26 18:43 G 35272870.15 35272870.28 35272870.40 0.0268 0.0085

Saturn 91861-12-24 04:48 G 35272958.57 35272958.70 35272958.83 0.0268 0.0030

Saturn 91862-03-22 14:53 G 35273047.01 35273047.12 35273047.23 0.0267 0.0144

Saturn 91862-06-19 00:58 G 35273135.52 35273135.54 35273135.58 0.0266 0.0258

Jupiter 91862-12-09 01:12 G 35273308.45 35273308.55 35273308.64 0.0514 0.0337

Jupiter 91863-03-08 05:31 G 35273397.63 35273397.73 35273397.83 0.0512 0.0335

Venus 91865-12-15 13:55 G 35274410.94 35274411.08 35274411.22 0.3752 0.1739

Mars 91866-04-24 05:46 G 35274540.66 35274540.74 35274540.81 0.1585 0.1202

Mars 91868-03-29 06:29 G 35275245.66 35275245.77 35275245.89 0.1585 0.0180

Venus 91868-09-18 06:29 G 35275418.72 35275418.77 35275418.83 0.3623 0.3071

Jupiter 91869-05-03 10:48 G 35275645.86 35275645.95 35275646.04 0.0513 0.0444

Moon 91869-05-07 10:19 G 35275649.86 35275649.93 35275650.00 0.2694 0.2389

Earth 91869-05-07 10:48 G 35275649.87 35275649.95 35275650.04 0.2700 0.2204 *

Moon 91871-11-11 05:02 G 35276567.68 35276567.71 35276567.74 0.2624 0.2511

Earth 91871-11-11 04:48 G 35276567.68 35276567.70 35276567.73 0.2630 0.2522 *

Venus 91874-04-03 21:22 G 35277442.30 35277442.39 35277442.49 0.3622 0.1076

Jupiter 91874-09-27 05:46 G 35277618.72 35277618.74 35277618.77 0.0515 0.0499

Jupiter 91874-12-25 10:19 G 35277707.81 35277707.93 35277708.05 0.0513 0.0173

Mars 91875-09-14 17:31 G 35277971.20 35277971.23 35277971.26 0.1586 0.1531

Mars 91877-08-19 18:14 G 35278676.15 35278676.26 35278676.38 0.1585 0.0168

Saturn 91877-10-08 09:07 G 35278725.71 35278725.88 35278726.06 0.0294 0.0104

Saturn 91878-01-05 10:34 G 35278814.77 35278814.94 35278815.11 0.0295 0.0116

Earth 91878-11-04 04:19 G 35279117.59 35279117.68 35279117.78 0.2632 0.1378

Moon 91878-11-04 05:02 G 35279117.61 35279117.71 35279117.80 0.2637 0.1359 *

Mars 91879-07-25 19:41 G 35279381.25 35279381.32 35279381.40 0.1587 0.1245

Venus 91879-10-18 12:14 G 35279465.91 35279466.01 35279466.11 0.3621 0.0935

Jupiter 91881-02-19 07:26 G 35279955.64 35279955.81 35279955.98 0.0513 0.0197

Mars 91882-05-08 00:14 G 35280398.38 35280398.51 35280398.65 0.1952 0.1163

Moon 91882-05-10 16:05 G 35280401.02 35280401.17 35280401.32 0.2698 0.0748

Earth 91882-05-10 17:17 G 35280401.08 35280401.22 35280401.37 0.2702 0.0829 *

Venus 91885-05-03 03:07 G 35281489.57 35281489.63 35281489.69 0.3620 0.2952

Uranus 91886-07-17 00:14 G 35281929.48 35281929.51 35281929.54 0.0143 0.0139

Uranus 91886-10-13 03:50 G 35282017.58 35282017.66 35282017.73 0.0143 0.0117

Jupiter 91886-10-13 14:53 G 35282017.99 35282018.12 35282018.24 0.0513 0.0014

Uranus 91887-01-09 07:12 G 35282105.71 35282105.80 35282105.90 0.0143 0.0095

Mars 91887-01-10 06:00 G 35282106.64 35282106.75 35282106.86 0.1585 0.0505

Uranus 91887-04-07 11:02 G 35282193.84 35282193.96 35282194.07 0.0143 0.0073

Uranus 91887-07-04 14:38 G 35282281.98 35282282.11 35282282.23 0.0143 0.0051

Uranus 91887-09-30 18:14 G 35282370.13 35282370.26 35282370.39 0.0144 0.0029

Uranus 91887-12-27 21:50 G 35282458.28 35282458.41 35282458.54 0.0144 0.0006

Uranus 91888-03-25 01:26 G 35282546.43 35282546.56 35282546.69 0.0144 0.0016

Uranus 91888-06-21 05:02 G 35282634.59 35282634.71 35282634.84 0.0144 0.0039

Uranus 91888-09-17 08:38 G 35282722.75 35282722.86 35282722.99 0.0144 0.0062

Uranus 91888-12-14 12:29 G 35282810.91 35282811.02 35282811.13 0.0144 0.0084

Mars 91888-12-15 07:12 G 35282811.71 35282811.80 35282811.90 0.1586 0.0897

Uranus 91889-03-12 16:05 G 35282899.09 35282899.17 35282899.26 0.0144 0.0107

Uranus 91889-06-08 19:41 G 35282987.28 35282987.32 35282987.39 0.0144 0.0130

Saturn 91890-11-17 11:02 G 35283513.91 35283513.96 35283514.03 0.0270 0.0236

Saturn 91891-02-13 21:22 G 35283602.27 35283602.39 35283602.51 0.0269 0.0119

Saturn 91891-05-13 07:26 G 35283690.68 35283690.81 35283690.94 0.0268 0.0006

Saturn 91891-08-09 17:31 G 35283779.11 35283779.23 35283779.36 0.0267 0.0111

Mars 91891-09-27 16:34 G 35283828.03 35283828.19 35283828.36 0.1952 0.0122

Saturn 91891-11-06 03:36 G 35283867.59 35283867.65 35283867.73 0.0267 0.0225

Earth 91891-11-06 22:05 G 35283868.31 35283868.42 35283868.53 0.2631 0.0003

Moon 91891-11-06 22:48 G 35283868.34 35283868.45 35283868.56 0.2631 0.0163 *

Jupiter 91892-12-08 03:22 G 35284265.46 35284265.64 35284265.82 0.0513 0.0061

Mars 91896-06-01 17:46 G 35285537.14 35285537.24 35285537.34 0.1585 0.0842

Mars 91898-05-07 18:58 G 35286242.17 35286242.29 35286242.40 0.1585 0.0549

Jupiter 91898-08-01 19:26 G 35286328.19 35286328.31 35286328.43 0.0513 0.0160

Jupiter 91898-10-29 23:46 G 35286417.48 35286417.49 35286417.50 0.0511 0.0509

Mars 91901-02-17 07:55 G 35287257.72 35287257.83 35287257.94 0.1952 0.1441

Jupiter 91904-09-26 23:46 G 35288575.35 35288575.49 35288575.64 0.0512 0.0310

Earth 91904-11-09 15:50 G 35288619.07 35288619.16 35288619.25 0.2631 0.1394

Moon 91904-11-09 16:19 G 35288619.09 35288619.18 35288619.28 0.2626 0.1420 *

Mars 91905-10-24 05:46 G 35288967.66 35288967.74 35288967.81 0.1585 0.1173

Saturn 91907-02-26 08:10 G 35289457.69 35289457.84 35289458.00 0.0294 0.0158

Saturn 91907-05-26 09:36 G 35289546.72 35289546.90 35289547.09 0.0295 0.0062

Saturn 91907-08-23 10:48 G 35289635.91 35289635.95 35289636.02 0.0296 0.0281

Mars 91907-09-29 06:29 G 35289672.65 35289672.77 35289672.89 0.1585 0.0205

Pluto 91908-05-18 03:22 G 35289904.59 35289904.64 35289904.71 0.0061 0.0058

Pluto 91908-08-14 04:19 G 35289992.58 35289992.68 35289992.81 0.0061 0.0047

Pluto 91908-11-10 05:46 G 35290080.60 35290080.74 35290080.88 0.0061 0.0037

Pluto 91909-02-06 06:29 G 35290168.62 35290168.77 35290168.95 0.0061 0.0027

Pluto 91909-05-05 07:55 G 35290256.66 35290256.83 35290257.01 0.0061 0.0016

Pluto 91909-08-01 09:07 G 35290344.70 35290344.88 35290345.06 0.0062 0.0005

Pluto 91909-10-28 10:05 G 35290432.75 35290432.92 35290433.11 0.0062 0.0006

Pluto 91910-01-24 11:17 G 35290520.80 35290520.97 35290521.15 0.0062 0.0016

Pluto 91910-04-22 12:14 G 35290608.86 35290609.01 35290609.18 0.0062 0.0027

Jupiter 91910-05-21 23:31 G 35290638.39 35290638.48 35290638.58 0.0514 0.0336

Pluto 91910-07-19 13:26 G 35290696.92 35290697.06 35290697.21 0.0062 0.0037

Jupiter 91910-08-19 03:50 G 35290727.57 35290727.66 35290727.76 0.0512 0.0334

Pluto 91910-10-15 14:24 G 35290785.00 35290785.10 35290785.23 0.0062 0.0048

Pluto 91911-01-11 15:22 G 35290873.11 35290873.14 35290873.22 0.0062 0.0059

Earth 91911-11-03 15:36 G 35291169.11 35291169.15 35291169.19 0.2633 0.2466

Moon 91911-11-03 15:50 G 35291169.12 35291169.16 35291169.19 0.2639 0.2461 *

Mars 91915-03-16 17:31 G 35292398.20 35292398.23 35292398.26 0.1586 0.1503

Moon 91915-05-09 16:48 G 35292452.07 35292452.20 35292452.32 0.2694 0.1624

Earth 91915-05-09 17:31 G 35292452.11 35292452.23 35292452.35 0.2701 0.1636 *

Jupiter 91916-10-14 08:53 G 35292975.79 35292975.87 35292975.96 0.0514 0.0450

Mars 91917-02-18 18:14 G 35293103.14 35293103.26 35293103.38 0.1585 0.0136

Mars 91919-01-24 19:41 G 35293808.25 35293808.32 35293808.39 0.1587 0.1276

Saturn 91920-04-06 14:24 G 35294246.08 35294246.10 35294246.13 0.0270 0.0264

Saturn 91920-07-04 00:29 G 35294334.41 35294334.52 35294334.63 0.0269 0.0148

Saturn 91920-09-30 10:48 G 35294422.81 35294422.95 35294423.08 0.0268 0.0034

Saturn 91920-12-27 20:53 G 35294511.24 35294511.37 35294511.49 0.0267 0.0082

Saturn 91921-03-26 06:58 G 35294599.70 35294599.79 35294599.88 0.0267 0.0196

Mars 91921-11-07 01:26 G 35294825.43 35294825.56 35294825.68 0.1952 0.1247

Jupiter 91922-03-10 04:05 G 35294948.65 35294948.67 35294948.69 0.0515 0.0505

Jupiter 91922-06-07 08:24 G 35295037.73 35295037.85 35295037.97 0.0513 0.0166

Earth 91924-11-05 09:07 G 35295919.78 35295919.88 35295919.99 0.2632 0.1109

Moon 91924-11-05 09:50 G 35295919.80 35295919.91 35295920.01 0.2637 0.0984 *

Venus 91925-04-26 03:50 G 35296091.58 35296091.66 35296091.74 0.3623 0.2334

Mars 91926-07-12 06:00 G 35296533.64 35296533.75 35296533.86 0.1585 0.0474

Uranus 91928-05-05 10:34 G 35297196.85 35297196.94 35297197.07 0.0135 0.0109

Moon 91928-05-11 22:34 G 35297203.30 35297203.44 35297203.58 0.2700 0.1094

Earth 91928-05-12 00:00 G 35297203.37 35297203.50 35297203.63 0.2702 0.1399 *

Mars 91928-06-16 07:12 G 35297238.71 35297238.80 35297238.90 0.1586 0.0926

Uranus 91928-08-01 18:00 G 35297285.11 35297285.25 35297285.41 0.0135 0.0082

Jupiter 91928-08-02 04:48 G 35297285.53 35297285.70 35297285.87 0.0513 0.0190

Uranus 91928-10-29 01:12 G 35297373.39 35297373.55 35297373.74 0.0135 0.0055

Uranus 91929-01-25 08:38 G 35297461.67 35297461.86 35297462.05 0.0135 0.0028

Uranus 91929-04-23 15:50 G 35297549.97 35297550.16 35297550.35 0.0134 0.0001

Uranus 91929-07-20 22:48 G 35297638.27 35297638.45 35297638.64 0.0134 0.0026

Uranus 91929-10-17 06:00 G 35297726.58 35297726.75 35297726.93 0.0134 0.0052

Uranus 91930-01-13 12:43 G 35297814.89 35297815.03 35297815.20 0.0134 0.0079

Uranus 91930-04-11 19:41 G 35297903.22 35297903.32 35297903.46 0.0134 0.0105

Uranus 91930-07-09 02:38 G 35297991.59 35297991.61 35297991.68 0.0134 0.0131

Venus 91930-11-09 18:43 G 35298115.18 35298115.28 35298115.38 0.3622 0.0350

Mars 91931-03-29 17:17 G 35298255.06 35298255.22 35298255.39 0.1952 0.0058

Jupiter 91934-03-26 13:12 G 35299347.92 35299348.05 35299348.17 0.0513 0.0017

Mars 91935-12-02 17:46 G 35299964.14 35299964.24 35299964.34 0.1585 0.0809

Venus 91936-05-25 09:36 G 35300138.81 35300138.90 35300138.99 0.3621 0.1675

Saturn 91936-07-15 06:58 G 35300189.67 35300189.79 35300189.92 0.0293 0.0215

Saturn 91936-10-12 08:38 G 35300278.68 35300278.86 35300279.05 0.0294 0.0005

Saturn 91937-01-09 09:50 G 35300367.80 35300367.91 35300368.04 0.0295 0.0224

Neptune 91937-05-13 05:46 G 35300491.73 35300491.74 35300491.79 0.0088 0.0085

Neptune 91937-08-09 07:12 G 35300579.75 35300579.80 35300579.87 0.0088 0.0078

Neptune 91937-11-05 08:24 G 35300667.79 35300667.85 35300667.94 0.0088 0.0071

Mars 91937-11-06 18:58 G 35300669.18 35300669.29 35300669.40 0.1586 0.0583

Earth 91937-11-08 02:53 G 35300670.51 35300670.62 35300670.73 0.2631 0.0280

Moon 91937-11-08 03:36 G 35300670.54 35300670.65 35300670.76 0.2629 0.0322 *

Neptune 91938-02-01 09:50 G 35300755.83 35300755.91 35300756.01 0.0088 0.0064

Neptune 91938-04-30 11:02 G 35300843.87 35300843.96 35300844.07 0.0088 0.0057

Neptune 91938-07-27 12:29 G 35300931.92 35300932.02 35300932.14 0.0088 0.0049

Neptune 91938-10-23 13:41 G 35301019.96 35301020.07 35301020.20 0.0088 0.0043

Neptune 91939-01-19 15:07 G 35301108.01 35301108.13 35301108.26 0.0088 0.0035

Neptune 91939-04-17 16:19 G 35301196.06 35301196.18 35301196.32 0.0088 0.0029

Neptune 91939-07-14 17:46 G 35301284.11 35301284.24 35301284.37 0.0088 0.0021

Neptune 91939-10-10 18:58 G 35301372.16 35301372.29 35301372.43 0.0088 0.0015

Neptune 91940-01-06 20:24 G 35301460.22 35301460.35 35301460.49 0.0088 0.0007

Neptune 91940-04-03 21:50 G 35301548.27 35301548.41 35301548.54 0.0088 0.0002

Jupiter 91940-05-21 00:58 G 35301595.36 35301595.54 35301595.73 0.0512 0.0064

Neptune 91940-06-30 23:02 G 35301636.33 35301636.46 35301636.60 0.0088 0.0007

Mars 91940-08-18 09:07 G 35301684.76 35301684.88 35301685.00 0.1953 0.1347

Neptune 91940-09-27 00:14 G 35301724.38 35301724.51 35301724.65 0.0088 0.0015

Neptune 91940-12-24 01:41 G 35301812.44 35301812.57 35301812.70 0.0088 0.0022

Neptune 91941-03-22 02:53 G 35301900.50 35301900.62 35301900.75 0.0088 0.0029

Neptune 91941-06-18 04:19 G 35301988.56 35301988.68 35301988.80 0.0088 0.0036

Neptune 91941-09-14 05:46 G 35302076.62 35302076.74 35302076.85 0.0088 0.0043

Neptune 91941-12-11 06:58 G 35302164.68 35302164.79 35302164.90 0.0088 0.0050

Neptune 91942-03-09 08:10 G 35302252.75 35302252.84 35302252.95 0.0088 0.0057

Neptune 91942-06-05 09:22 G 35302340.81 35302340.89 35302340.99 0.0088 0.0065

Neptune 91942-09-01 10:48 G 35302428.88 35302428.95 35302429.04 0.0088 0.0072

Neptune 91942-11-28 12:14 G 35302516.96 35302517.01 35302517.07 0.0088 0.0079

Neptune 91943-02-24 13:41 G 35302605.05 35302605.07 35302605.09 0.0088 0.0086

Mars 91945-04-24 05:31 G 35303394.65 35303394.73 35303394.81 0.1585 0.1145

Jupiter 91946-01-12 17:46 G 35303658.12 35303658.24 35303658.36 0.0513 0.0162

Jupiter 91946-04-11 22:05 G 35303747.41 35303747.42 35303747.44 0.0511 0.0508

Mars 91947-03-30 06:29 G 35304099.66 35304099.77 35304099.89 0.1585 0.0240

Saturn 91949-11-21 03:22 G 35305066.55 35305066.64 35305066.74 0.0270 0.0180

Saturn 91950-02-17 13:41 G 35305154.94 35305155.07 35305155.20 0.0269 0.0064

Saturn 91950-05-16 23:46 G 35305243.36 35305243.49 35305243.62 0.0268 0.0051

Saturn 91950-08-13 10:05 G 35305331.81 35305331.92 35305332.02 0.0267 0.0165

Earth 91950-11-10 20:38 G 35305421.28 35305421.36 35305421.45 0.2630 0.1680

Moon 91950-11-10 21:07 G 35305421.30 35305421.38 35305421.46 0.2626 0.1800 *

Jupiter 91952-03-08 20:38 G 35305905.22 35305905.36 35305905.50 0.0512 0.0325

Mars 91954-09-14 17:31 G 35306825.19 35306825.23 35306825.27 0.1586 0.1475

Mars 91956-08-19 18:14 G 35307530.14 35307530.26 35307530.37 0.1585 0.0114

Jupiter 91957-10-31 22:19 G 35307968.34 35307968.43 35307968.53 0.0514 0.0329

Earth 91957-11-03 20:24 G 35307971.29 35307971.35 35307971.41 0.2633 0.2195

Moon 91957-11-03 20:38 G 35307971.30 35307971.36 35307971.42 0.2639 0.2177 *

Jupiter 91958-01-29 02:38 G 35308057.52 35308057.61 35308057.71 0.0512 0.0340

Mars 91958-07-25 19:41 G 35308235.26 35308235.32 35308235.39 0.1587 0.1309

Mars 91961-05-08 01:55 G 35309252.46 35309252.58 35309252.70 0.1952 0.1311

Moon 91961-05-09 23:17 G 35309254.33 35309254.47 35309254.61 0.2695 0.1253

Earth 91961-05-10 00:00 G 35309254.36 35309254.50 35309254.64 0.2701 0.1066 *

Jupiter 91964-03-26 05:46 G 35310305.65 35310305.74 35310305.84 0.0514 0.0437

Saturn 91965-12-02 06:58 G 35310921.71 35310921.79 35310921.87 0.0293 0.0261

Mars 91966-01-10 06:00 G 35310960.64 35310960.75 35310960.86 0.1585 0.0444

Saturn 91966-03-01 08:24 G 35311010.67 35311010.85 35311011.04 0.0294 0.0043

Saturn 91966-05-29 09:50 G 35311099.76 35311099.91 35311100.06 0.0295 0.0177

Mars 91967-12-16 07:12 G 35311665.71 35311665.80 35311665.89 0.1586 0.0955

Jupiter 91969-08-20 02:24 G 35312278.59 35312278.60 35312278.62 0.0515 0.0508

Jupiter 91969-11-17 06:43 G 35312367.66 35312367.78 35312367.90 0.0512 0.0162

Uranus 91970-08-07 07:12 G 35312630.76 35312630.80 35312630.85 0.0143 0.0134

Mars 91970-09-27 18:00 G 35312682.09 35312682.25 35312682.42 0.1953 0.0061

Uranus 91970-11-03 10:48 G 35312718.87 35312718.95 35312719.03 0.0143 0.0112

Earth 91970-11-06 13:55 G 35312721.98 35312722.08 35312722.19 0.2632 0.0833

Moon 91970-11-06 14:38 G 35312722.00 35312722.11 35312722.22 0.2635 0.0768 *

Uranus 91971-01-30 14:24 G 35312807.00 35312807.10 35312807.20 0.0143 0.0091

Uranus 91971-04-28 18:00 G 35312895.13 35312895.25 35312895.37 0.0143 0.0068

Uranus 91971-07-25 21:36 G 35312983.27 35312983.40 35312983.53 0.0144 0.0046

Uranus 91971-10-22 01:12 G 35313071.42 35313071.55 35313071.68 0.0144 0.0024

Uranus 91972-01-18 04:48 G 35313159.57 35313159.70 35313159.83 0.0144 0.0002

Uranus 91972-04-15 08:24 G 35313247.72 35313247.85 35313247.98 0.0144 0.0021

Uranus 91972-07-12 12:00 G 35313335.88 35313336.00 35313336.13 0.0144 0.0044

Uranus 91972-10-08 15:50 G 35313424.04 35313424.16 35313424.28 0.0144 0.0066

Uranus 91973-01-04 19:26 G 35313512.21 35313512.31 35313512.42 0.0144 0.0088

Uranus 91973-04-02 23:17 G 35313600.38 35313600.47 35313600.55 0.0144 0.0111

Uranus 91973-06-30 02:53 G 35313688.57 35313688.62 35313688.67 0.0144 0.0134

Venus 91973-08-13 06:43 G 35313732.64 35313732.78 35313732.93 0.3751 0.1650

Moon 91974-05-13 04:48 G 35314005.59 35314005.70 35314005.81 0.2701 0.1839

Earth 91974-05-13 06:29 G 35314005.66 35314005.77 35314005.87 0.2702 0.1947 *

Mars 91975-06-02 17:46 G 35314391.14 35314391.24 35314391.34 0.1585 0.0780

Jupiter 91976-01-13 02:24 G 35314615.43 35314615.60 35314615.77 0.0513 0.0188

Venus 91976-05-17 10:19 G 35314740.92 35314740.93 35314740.94 0.3624 0.3595

Mars 91977-05-07 18:58 G 35315096.18 35315096.29 35315096.39 0.1585 0.0615

Saturn 91979-04-10 06:58 G 35315798.71 35315798.79 35315798.87 0.0270 0.0206

Saturn 91979-07-07 17:02 G 35315887.09 35315887.21 35315887.34 0.0269 0.0090

Saturn 91979-10-04 03:22 G 35315975.51 35315975.64 35315975.77 0.0268 0.0026

Saturn 91979-12-31 13:26 G 35316063.95 35316064.06 35316064.17 0.0267 0.0140

Mars 91980-02-17 10:05 G 35316111.79 35316111.92 35316112.05 0.1953 0.1264

Saturn 91980-03-28 23:31 G 35316152.45 35316152.48 35316152.52 0.0266 0.0254

Jupiter 91981-09-05 11:17 G 35316677.84 35316677.97 35316678.09 0.0513 0.0020

Venus 91981-12-01 01:12 G 35316764.46 35316764.55 35316764.64 0.3622 0.1614

Earth 91983-11-09 07:41 G 35317472.71 35317472.82 35317472.93 0.2631 0.0557

Moon 91983-11-09 08:24 G 35317472.74 35317472.85 35317472.96 0.2629 0.0712 *

Mars 91984-10-23 05:31 G 35317821.65 35317821.73 35317821.82 0.1585 0.1113

Mars 91986-09-28 06:29 G 35318526.65 35318526.77 35318526.89 0.1585 0.0267

Venus 91987-06-16 15:50 G 35318788.06 35318788.16 35318788.26 0.3622 0.0407

Jupiter 91987-10-31 22:05 G 35318925.24 35318925.42 35318925.60 0.0512 0.0075

Venus 91992-12-30 06:43 G 35320811.71 35320811.78 35320811.86 0.3621 0.2406

Jupiter 91993-06-24 15:50 G 35320988.04 35320988.16 35320988.28 0.0514 0.0174

Jupiter 91993-09-21 20:10 G 35321077.32 35321077.34 35321077.37 0.0512 0.0497

Mars 91994-03-15 17:31 G 35321252.18 35321252.23 35321252.27 0.1585 0.1444

Saturn 91995-07-19 07:55 G 35321742.66 35321742.83 35321743.01 0.0294 0.0094

Saturn 91995-10-16 09:22 G 35321831.73 35321831.89 35321832.06 0.0295 0.0126

Mars 91996-02-18 18:14 G 35321957.14 35321957.26 35321957.38 0.1585 0.0076

Earth 91996-11-11 01:41 G 35322223.49 35322223.57 35322223.64 0.2630 0.1966

Moon 91996-11-11 01:55 G 35322223.50 35322223.58 35322223.65 0.2625 0.1944 *

Mars 91998-01-23 19:41 G 35322662.26 35322662.32 35322662.38 0.1587 0.1340

Jupiter 91999-08-19 18:00 G 35323235.12 35323235.25 35323235.40 0.0512 0.0331

Mars 92000-11-06 02:53 G 35323679.50 35323679.62 35323679.73 0.1952 0.1394

93RD MILLENNIUM CE

This is a list of transits of Mercury in the 93rd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Pluto	**92001-03-14 15:50**	**G**	**35323808.09**	**35323808.16**	**35323808.26**	**0.0083**	**0.0065**	
Pluto	**92001-06-10 17:17**	**G**	**35323896.11**	**35323896.22**	**35323896.34**	**0.0083**	**0.0045**	
Pluto	**92001-09-06 18:43**	**G**	**35323984.15**	**35323984.28**	**35323984.42**	**0.0083**	**0.0025**	
Pluto	**92001-12-03 20:10**	**G**	**35324072.20**	**35324072.34**	**35324072.48**	**0.0083**	**0.0005**	
Pluto	**92002-03-01 21:22**	**G**	**35324160.25**	**35324160.39**	**35324160.53**	**0.0083**	**0.0015**	
Pluto	**92002-05-28 22:34**	**G**	**35324248.32**	**35324248.44**	**35324248.57**	**0.0082**	**0.0036**	
Pluto	**92002-08-24 23:46**	**G**	**35324336.40**	**35324336.49**	**35324336.61**	**0.0082**	**0.0056**	
Pluto	**92002-11-21 00:58**	**G**	**35324424.50**	**35324424.54**	**35324424.61**	**0.0082**	**0.0076**	
Earth	**92003-11-05 01:12**	**G**	**35324773.48**	**35324773.55**	**35324773.62**	**0.2633**	**0.1925**	
Moon	**92003-11-05 01:26**	**G**	**35324773.49**	**35324773.56**	**35324773.64**	**0.2639**	**0.1860**	*
Jupiter	**92005-04-12 20:24**	**G**	**35325298.26**	**35325298.35**	**35325298.45**	**0.0514**	**0.0337**	
Jupiter	**92005-07-11 00:43**	**G**	**35325387.44**	**35325387.53**	**35325387.63**	**0.0512**	**0.0334**	
Mars	**92005-07-11 06:00**	**G**	**35325387.63**	**35325387.75**	**35325387.86**	**0.1584**	**0.0416**	*
Moon	**92007-05-11 05:31**	**G**	**35326056.58**	**35326056.73**	**35326056.88**	**0.2696**	**0.0592**	
Earth	**92007-05-11 06:29**	**G**	**35326056.62**	**35326056.77**	**35326056.92**	**0.2701**	**0.0504**	*
Mars	**92007-06-16 07:12**	**G**	**35326092.71**	**35326092.80**	**35326092.89**	**0.1586**	**0.0991**	

Saturn 92008-08-27 10:05 G 35326530.86 35326530.92 35326530.99 0.0270 0.0235

Saturn 92008-11-23 20:24 G 35326619.23 35326619.35 35326619.46 0.0269 0.0119

Saturn 92009-02-20 06:29 G 35326707.64 35326707.77 35326707.90 0.0268 0.0004

Saturn 92009-05-19 16:34 G 35326796.07 35326796.19 35326796.31 0.0268 0.0111

Saturn 92009-08-16 02:38 G 35326884.55 35326884.61 35326884.69 0.0267 0.0226

Mars 92010-03-28 18:58 G 35327109.13 35327109.29 35327109.46 0.1953 0.0128

Jupiter 92011-09-06 02:24 G 35327635.50 35327635.60 35327635.71 0.0514 0.0415

Uranus 92012-02-27 11:02 G 35327809.91 35327809.96 35327810.04 0.0135 0.0127

Uranus 92012-05-25 18:14 G 35327898.15 35327898.26 35327898.40 0.0135 0.0100

Uranus 92012-08-22 01:41 G 35327986.42 35327986.57 35327986.74 0.0135 0.0073

Uranus 92012-11-18 08:53 G 35328074.70 35328074.87 35328075.06 0.0135 0.0046

Uranus 92013-02-14 16:19 G 35328162.99 35328163.18 35328163.37 0.0135 0.0019

Uranus 92013-05-13 23:31 G 35328251.29 35328251.48 35328251.67 0.0135 0.0008

Uranus 92013-08-10 06:29 G 35328339.59 35328339.77 35328339.96 0.0134 0.0034

Uranus 92013-11-06 13:41 G 35328427.90 35328428.07 35328428.24 0.0134 0.0061

Uranus 92014-02-02 20:38 G 35328516.22 35328516.36 35328516.51 0.0134 0.0087

Uranus 92014-05-02 03:50 G 35328604.56 35328604.66 35328604.76 0.0134 0.0113

Mars 92014-12-01 17:46 G 35328818.14 35328818.24 35328818.34 0.1585 0.0752

Mars 92016-11-05 18:43 G 35329523.18 35329523.28 35329523.39 0.1585 0.0643

Earth 92016-11-06 18:43 G 35329524.17 35329524.28 35329524.39 0.2632 0.0560

Moon 92016-11-06 19:26 G 35329524.20 35329524.31 35329524.42 0.2633 0.0462 *

Jupiter 92017-01-30 00:58 G 35329608.52 35329608.54 35329608.57 0.0514 0.0504

Jupiter 92017-04-29 05:17 G 35329697.60 35329697.72 35329697.84 0.0512 0.0166

Mars 92019-08-18 10:34 G 35330538.81 35330538.94 35330539.07 0.1953 0.1200

Moon 92020-05-13 11:17 G 35330807.89 35330807.97 35330808.06 0.2701 0.2180

Earth 92020-05-13 12:58 G 35330807.99 35330808.04 35330808.09 0.2702 0.2510 *

Neptune 92020-10-30 16:48 G 35330978.20 35330978.20 35330978.23 0.0090 0.0089

Neptune 92021-01-26 20:10 G 35331066.27 35331066.34 35331066.46 0.0090 0.0079

Neptune 92021-04-25 00:00 G 35331154.39 35331154.50 35331154.64 0.0090 0.0068

Neptune 92021-07-22 04:05 G 35331242.52 35331242.67 35331242.82 0.0090 0.0056

Neptune 92021-10-18 07:12 G 35331330.65 35331330.80 35331330.98 0.0090 0.0046

Neptune 92022-01-14 11:02 G 35331418.79 35331418.96 35331419.15 0.0090 0.0035

Neptune 92022-04-12 14:38 G 35331506.93 35331507.11 35331507.30 0.0090 0.0024

Neptune 92022-07-09 18:14 G 35331595.08 35331595.26 35331595.46 0.0090 0.0013

Neptune 92022-10-05 22:05 G 35331683.23 35331683.42 35331683.61 0.0090 0.0002

Neptune 92023-01-02 01:26 G 35331771.38 35331771.56 35331771.76 0.0090 0.0010

Neptune 92023-03-31 05:02 G 35331859.53 35331859.71 35331859.90 0.0090 0.0020

Jupiter 92023-06-24 22:48 G 35331945.28 35331945.45 35331945.63 0.0513 0.0168

Neptune 92023-06-27 08:38 G 35331947.68 35331947.86 35331948.04 0.0090 0.0031

Neptune 92023-09-23 12:14 G 35332035.84 35332036.01 35332036.18 0.0090 0.0042

Neptune 92023-12-20 15:36 G 35332124.01 35332124.15 35332124.31 0.0090 0.0053

Neptune 92024-03-17 18:58 G 35332212.17 35332212.29 35332212.44 0.0090 0.0064

Mars 92024-04-23 05:31 G 35332248.65 35332248.73 35332248.81 0.1585 0.1083

Neptune 92024-06-13 22:48 G 35332300.35 35332300.45 35332300.56 0.0090 0.0074

Neptune 92024-09-10 02:10 G 35332388.54 35332388.59 35332388.66 0.0090 0.0085

Saturn 92024-12-05 07:55 G 35332474.67 35332474.83 35332475.00 0.0293 0.0140

Saturn 92025-03-04 09:22 G 35332563.72 35332563.89 35332564.07 0.0294 0.0080

Mars 92026-03-29 06:29 G 35332953.65 35332953.77 35332953.89 0.1585 0.0297

Jupiter 92029-02-15 09:22 G 35334007.76 35334007.89 35334008.02 0.0513 0.0016

Earth 92029-11-09 12:29 G 35334274.92 35334275.02 35334275.13 0.2631 0.0840

Moon 92029-11-09 13:12 G 35334274.95 35334275.05 35334275.16 0.2629 0.0895 *

Venus 92030-03-20 10:05 G 35334405.76 35334405.92 35334406.07 0.3752 0.1296

Venus 92032-12-22 07:26 G 35335413.75 35335413.81 35335413.87 0.3623 0.2867

Mars 92033-09-13 17:17 G 35335679.17 35335679.22 35335679.27 0.1585 0.1417

Jupiter 92035-04-12 19:26 G 35336255.13 35336255.31 35336255.49 0.0512 0.0082

Mars 92035-08-19 18:14 G 35336384.14 35336384.26 35336384.37 0.1585 0.0066

Mars 92037-07-24 19:41 G 35337089.26 35337089.32 35337089.38 0.1587 0.1373

Saturn 92038-01-14 13:41 G 35337263.04 35337263.07 35337263.11 0.0270 0.0260

Saturn 92038-04-13 00:00 G 35337351.39 35337351.50 35337351.61 0.0269 0.0143

Venus 92038-07-07 22:19 G 35337437.33 35337437.43 35337437.53 0.3622 0.0883

Saturn 92038-07-10 10:05 G 35337439.79 35337439.92 35337440.05 0.0268 0.0028

Saturn 92038-10-06 20:10 G 35337528.22 35337528.34 35337528.47 0.0268 0.0087

Saturn 92039-01-03 06:14 G 35337616.68 35337616.76 35337616.85 0.0267 0.0202

Mars 92040-05-07 03:50 G 35338106.55 35338106.66 35338106.76 0.1952 0.1477

Jupiter 92040-12-04 13:41 G 35338317.95 35338318.07 35338318.19 0.0514 0.0186

Jupiter 92041-03-03 18:00 G 35338407.22 35338407.25 35338407.29 0.0512 0.0484

Earth 92042-11-12 06:29 G 35339025.71 35339025.77 35339025.82 0.2630 0.2247

Moon 92042-11-12 06:29 G 35339025.72 35339025.77 35339025.83 0.2624 0.2320 *

Venus 92044-01-21 13:12 G 35339460.95 35339461.05 35339461.14 0.3621 0.1126

Mars 92045-01-09 06:00 G 35339814.63 35339814.75 35339814.86 0.1585 0.0386

Mars 92046-12-15 07:12 G 35340519.71 35340519.80 35340519.89 0.1586 0.1022

Jupiter 92047-01-29 15:07 G 35340564.99 35340565.13 35340565.26 0.0512 0.0344

Venus 92049-08-06 04:05 G 35341484.62 35341484.67 35341484.72 0.3620 0.3128

Mars 92049-09-26 19:55 G 35341536.17 35341536.33 35341536.50 0.1952 0.0201

Earth 92049-11-05 06:00 G 35341575.66 35341575.75 35341575.84 0.2633 0.1649

Moon 92049-11-05 06:14 G 35341575.68 35341575.76 35341575.85 0.2638 0.1647 *

Jupiter 92052-09-22 18:14 G 35342628.17 35342628.26 35342628.35 0.0514 0.0353

Jupiter 92052-12-20 22:34 G 35342717.35 35342717.44 35342717.54 0.0512 0.0319

Moon 92053-05-11 11:46 G 35342858.84 35342858.99 35342859.15 0.2697 0.0128

Earth 92053-05-11 13:12 G 35342858.90 35342859.05 35342859.20 0.2701 0.0076 *

Saturn 92054-04-24 08:10 G 35343206.70 35343206.84 35343206.98 0.0293 0.0186

Mars 92054-06-01 17:46 G 35343245.13 35343245.24 35343245.34 0.1584 0.0718

Saturn 92054-07-22 09:36 G 35343295.72 35343295.90 35343296.09 0.0295 0.0034

Uranus 92054-08-27 14:24 G 35343332.05 35343332.10 35343332.15 0.0143 0.0130

Saturn 92054-10-19 11:02 G 35343384.86 35343384.96 35343385.05 0.0296 0.0253

Uranus 92054-11-23 17:46 G 35343420.16 35343420.24 35343420.33 0.0143 0.0108

Uranus 92055-02-19 21:22 G 35343508.29 35343508.39 35343508.50 0.0143 0.0086

Uranus 92055-05-19 00:58 G 35343596.43 35343596.54 35343596.66 0.0143 0.0064

Uranus 92055-08-15 04:34 G 35343684.57 35343684.69 35343684.82 0.0144 0.0042

Uranus 92055-11-11 08:10 G 35343772.71 35343772.84 35343772.98 0.0144 0.0020

Uranus 92056-02-07 12:00 G 35343860.86 35343861.00 35343861.13 0.0144 0.0005

Uranus 92056-05-05 15:22 G 35343949.02 35343949.14 35343949.28 0.0144 0.0026

Mars 92056-05-06 18:43 G 35343950.18 35343950.28 35343950.39 0.1585 0.0676

Uranus 92056-08-01 19:12 G 35344037.17 35344037.30 35344037.42 0.0144 0.0048

Uranus 92056-10-28 22:48 G 35344125.34 35344125.45 35344125.57 0.0144 0.0070

Uranus 92057-01-25 02:24 G 35344213.50 35344213.60 35344213.71 0.0144 0.0093

Uranus 92057-04-23 06:00 G 35344301.68 35344301.75 35344301.84 0.0144 0.0116

Uranus 92057-07-20 09:50 G 35344389.88 35344389.91 35344389.95 0.0144 0.0138

Jupiter 92059-02-15 23:46 G 35344965.38 35344965.49 35344965.60 0.0513 0.0407

Mars 92059-02-16 11:31 G 35344965.85 35344965.98 35344966.12 0.1953 0.1115

Earth 92062-11-07 23:31 G 35346326.37 35346326.48 35346326.60 0.2632 0.0292

Moon 92062-11-08 00:14 G 35346326.40 35346326.51 35346326.63 0.2632 0.0180 *

Mars 92063-10-23 05:31 G 35346675.64 35346675.73 35346675.81 0.1585 0.1055

Jupiter 92064-07-11 23:02 G 35346938.46 35346938.46 35346938.47 0.0515 0.0514

Jupiter 92064-10-09 03:22 G 35347027.52 35347027.64 35347027.76 0.0513 0.0156

Mars 92065-09-27 06:29 G 35347380.65 35347380.77 35347380.89 0.1585 0.0330

Saturn 92067-08-31 03:07 G 35348083.54 35348083.63 35348083.74 0.0270 0.0172

Saturn 92067-11-27 13:26 G 35348171.93 35348172.06 35348172.19 0.0269 0.0055

Saturn 92068-02-23 23:31 G 35348260.35 35348260.48 35348260.61 0.0268 0.0060

Saturn 92068-05-22 09:36 G 35348348.81 35348348.90 35348349.00 0.0267 0.0174

Jupiter 92070-12-04 19:12 G 35349275.13 35349275.30 35349275.48 0.0513 0.0143

Mars 92073-03-14 17:17 G 35350106.17 35350106.22 35350106.28 0.1585 0.1386

Mars 92075-02-17 18:00 G 35350811.14 35350811.25 35350811.37 0.1584 0.0049

Earth 92075-11-10 17:17 G 35351077.12 35351077.22 35351077.33 0.2631 0.1122

Moon 92075-11-10 18:00 G 35351077.15 35351077.25 35351077.35 0.2628 0.1224 *

Jupiter 92076-07-28 07:55 G 35351337.70 35351337.83 35351337.96 0.0513 0.0015

Mars 92077-01-22 19:41 G 35351516.27 35351516.32 35351516.38 0.1587 0.1405

Mars 92079-11-06 04:19 G 35352533.58 35352533.68 35352533.78 0.1952 0.1543

Jupiter 92082-09-22 15:50 G 35353584.98 35353585.16 35353585.34 0.0513 0.0106

Saturn 92083-09-11 07:41 G 35353938.71 35353938.82 35353938.94 0.0293 0.0233

Saturn 92083-12-09 09:22 G 35354027.70 35354027.89 35354028.08 0.0294 0.0014

Saturn 92084-03-07 10:48 G 35354116.82 35354116.95 35354117.08 0.0295 0.0205

Mars 92084-07-10 05:46 G 35354241.63 35354241.74 35354241.86 0.1584 0.0356

Moon 92086-05-09 12:43 G 35354909.96 35354910.03 35354910.10 0.2694 0.2406

Earth 92086-05-09 13:12 G 35354909.98 35354910.05 35354910.11 0.2700 0.2428 *

Mars 92086-06-15 07:12 G 35354946.71 35354946.80 35354946.89 0.1586 0.1051

Jupiter 92088-05-16 12:00 G 35355647.88 35355648.00 35355648.11 0.0514 0.0194

Jupiter 92088-08-13 16:05 G 35355737.13 35355737.17 35355737.22 0.0512 0.0477

Moon 92088-11-12 11:31 G 35355827.94 35355827.98 35355828.01 0.2623 0.2499

Earth 92088-11-12 11:17 G 35355827.94 35355827.97 35355828.00 0.2630 0.2533 *

Mars 92089-03-27 20:38 G 35355963.19 35355963.36 35355963.52 0.1953 0.0271

Venus 92089-07-29 04:48 G 35356086.62 35356086.70 35356086.78 0.3623 0.2151

Mars 92093-11-30 17:46 G 35357672.13 35357672.24 35357672.34 0.1585 0.0691

Jupiter 92094-07-11 12:14 G 35357894.88 35357895.01 35357895.15 0.0512 0.0353

Venus 92095-02-11 19:26 G 35358110.21 35358110.31 35358110.42 0.3622 0.0227

Mars 92095-11-05 18:43 G 35358377.18 35358377.28 35358377.39 0.1585 0.0708

Earth 92095-11-06 10:48 G 35358377.86 35358377.95 35358378.04 0.2632 0.1377

Moon 92095-11-06 11:17 G 35358377.87 35358377.97 35358378.07 0.2637 0.1261 *

Uranus 92096-03-18 18:58 G 35358511.20 35358511.29 35358511.39 0.0135 0.0117

Uranus 92096-06-15 02:10 G 35358599.45 35358599.59 35358599.74 0.0135 0.0090

Uranus 92096-09-11 09:36 G 35358687.73 35358687.90 35358688.07 0.0135 0.0063

Uranus 92096-12-08 16:34 G 35358776.01 35358776.19 35358776.38 0.0135 0.0037

Saturn 92097-01-17 06:58 G 35358815.70 35358815.79 35358815.88 0.0270 0.0195

Uranus 92097-03-07 00:00 G 35358864.31 35358864.50 35358864.69 0.0135 0.0010

Saturn 92097-04-15 17:02 G 35358904.09 35358904.21 35358904.34 0.0269 0.0079

Uranus 92097-06-03 07:12 G 35358952.61 35358952.80 35358952.99 0.0135 0.0017

Saturn 92097-07-13 03:07 G 35358992.50 35358992.63 35358992.76 0.0268 0.0036

Uranus 92097-08-30 14:10 G 35359040.91 35359041.09 35359041.27 0.0135 0.0043

Saturn 92097-10-09 13:12 G 35359080.95 35359081.05 35359081.16 0.0267 0.0151

Uranus 92097-11-26 21:07 G 35359129.23 35359129.38 35359129.55 0.0135 0.0070

Saturn 92098-01-05 23:31 G 35359169.47 35359169.48 35359169.49 0.0266 0.0265

Uranus 92098-02-23 04:19 G 35359217.55 35359217.68 35359217.82 0.0135 0.0096

Uranus 92098-05-22 11:17 G 35359305.90 35359305.97 35359306.05 0.0134 0.0122

Mars 92098-08-17 12:43 G 35359392.89 35359393.03 35359393.17 0.1953 0.1022

Moon 92099-05-12 18:14 G 35359661.11 35359661.26 35359661.42 0.2698 0.0442

Earth 92099-05-12 19:55 G 35359661.18 35359661.33 35359661.48 0.2701 0.0656 *

Jupiter 92100-03-05 16:19 G 35359958.09 35359958.18 35359958.27 0.0514 0.0365

Jupiter 92100-06-02 20:38 G 35360047.26 35360047.36 35360047.46 0.0512 0.0305

Venus 92100-08-28 10:19 G 35360133.85 35360133.93 35360134.02 0.3621 0.1850

Neptune 92102-02-08 05:31 G 35360662.69 35360662.73 35360662.78 0.0088 0.0082

Neptune 92102-05-07 06:58 G 35360750.72 35360750.79 35360750.85 0.0088 0.0075

Neptune 92102-08-03 08:10 G 35360838.76 35360838.84 35360838.92 0.0088 0.0068

Neptune 92102-10-30 09:22 G 35360926.80 35360926.89 35360926.99 0.0088 0.0061

Neptune 92103-01-26 10:48 G 35361014.84 35361014.95 35361015.05 0.0088 0.0054

Mars 92103-04-24 05:31 G 35361102.64 35361102.73 35361102.82 0.1585 0.1023

Neptune 92103-04-24 12:00 G 35361102.89 35361103.00 35361103.11 0.0088 0.0047

Neptune 92103-07-21 13:26 G 35361190.94 35361191.06 35361191.18 0.0088 0.0040

Neptune 92103-10-17 14:38 G 35361278.99 35361279.11 35361279.23 0.0088 0.0033

Neptune 92104-01-13 15:50 G 35361367.04 35361367.16 35361367.29 0.0088 0.0026

Neptune 92104-04-10 17:17 G 35361455.09 35361455.22 35361455.35 0.0088 0.0019

Neptune 92104-07-07 18:29 G 35361543.14 35361543.27 35361543.41 0.0088 0.0012

Neptune 92104-10-03 19:55 G 35361631.19 35361631.33 35361631.46 0.0088 0.0005

Neptune 92104-12-30 21:07 G 35361719.25 35361719.38 35361719.52 0.0088 0.0003

Neptune 92105-03-28 22:34 G 35361807.30 35361807.44 35361807.57 0.0088 0.0010

Mars 92105-03-29 06:29 G 35361807.65 35361807.77 35361807.88 0.1585 0.0361

Neptune 92105-06-24 23:46 G 35361895.36 35361895.49 35361895.62 0.0088 0.0017

Neptune 92105-09-21 01:12 G 35361983.42 35361983.55 35361983.68 0.0088 0.0024

Neptune 92105-12-18 02:24 G 35362071.48 35362071.60 35362071.73 0.0088 0.0031

Neptune 92106-03-16 03:36 G 35362159.54 35362159.65 35362159.78 0.0088 0.0038

Neptune 92106-06-12 04:48 G 35362247.60 35362247.70 35362247.83 0.0088 0.0046

Jupiter 92106-07-29 20:53 G 35362295.25 35362295.37 35362295.48 0.0513 0.0395

Neptune 92106-09-08 06:14 G 35362335.66 35362335.76 35362335.88 0.0088 0.0053

Neptune 92106-12-05 07:41 G 35362423.73 35362423.82 35362423.92 0.0088 0.0060

Neptune 92107-03-03 08:53 G 35362511.79 35362511.87 35362511.97 0.0088 0.0067

Neptune 92107-05-30 10:19 G 35362599.86 35362599.93 35362600.01 0.0088 0.0074

Neptune 92107-08-26 11:31 G 35362687.94 35362687.98 35362688.04 0.0088 0.0081

Earth 92108-11-09 04:34 G 35363128.57 35363128.69 35363128.80 0.2632 0.0108

Moon 92108-11-09 05:17 G 35363128.60 35363128.72 35363128.83 0.2632 0.0107 *

Jupiter 92112-03-22 01:12 G 35364357.42 35364357.55 35364357.67 0.0513 0.0139

Mars 92112-09-13 17:17 G 35364533.16 35364533.22 35364533.28 0.1585 0.1355

Saturn 92113-01-29 07:41 G 35364670.78 35364670.82 35364670.88 0.0293 0.0281

Saturn 92113-04-28 09:22 G 35364759.71 35364759.89 35364760.07 0.0294 0.0061

Saturn 92113-07-26 10:48 G 35364848.79 35364848.95 35364849.11 0.0295 0.0158

Mars 92114-08-19 18:14 G 35365238.14 35365238.26 35365238.37 0.1584 0.0063

Mars 92116-07-24 19:41 G 35365943.27 35365943.32 35365943.37 0.1587 0.1437

Jupiter 92118-05-17 16:48 G 35366605.02 35366605.20 35366605.38 0.0513 0.0138

Mars 92119-05-08 05:17 G 35366960.63 35366960.72 35366960.80 0.1952 0.1624

Earth 92121-11-11 22:19 G 35367879.33 35367879.43 35367879.52 0.2631 0.1403

Moon 92121-11-11 22:48 G 35367879.35 35367879.45 35367879.54 0.2626 0.1475 *

Jupiter 92124-01-09 06:00 G 35368667.62 35368667.75 35368667.88 0.0513 0.0023

Mars 92124-01-10 05:46 G 35368668.63 35368668.74 35368668.86 0.1584 0.0325

Mars 92125-12-15 07:12 G 35369373.71 35369373.80 35369373.89 0.1586 0.1087

Saturn 92126-06-07 10:19 G 35369547.86 35369547.93 35369548.00 0.0270 0.0222

Saturn 92126-09-03 20:24 G 35369636.23 35369636.35 35369636.47 0.0269 0.0107

Saturn 92126-12-01 06:29 G 35369724.64 35369724.77 35369724.91 0.0268 0.0011

Saturn 92127-02-27 16:48 G 35369813.08 35369813.20 35369813.31 0.0267 0.0124

Saturn 92127-05-27 02:53 G 35369901.56 35369901.62 35369901.68 0.0266 0.0237

Mars 92128-09-26 21:36 G 35370390.24 35370390.40 35370390.56 0.1953 0.0356

Moon 92128-11-04 22:05 G 35370429.38 35370429.42 35370429.46 0.2640 0.2404

Earth 92128-11-04 22:05 G 35370429.38 35370429.42 35370429.45 0.2633 0.2464 *

Jupiter 92130-03-05 12:14 G 35370914.83 35370915.01 35370915.19 0.0512 0.0128

Moon 92132-05-10 18:58 G 35371712.19 35371712.29 35371712.39 0.2694 0.2027

Earth 92132-05-10 19:41 G 35371712.21 35371712.32 35371712.43 0.2700 0.1846 *

Mars 92133-06-01 17:31 G 35372099.13 35372099.23 35372099.34 0.1584 0.0662

Mars 92135-05-07 18:43 G 35372804.18 35372804.28 35372804.39 0.1585 0.0736

Jupiter 92135-10-28 10:34 G 35372977.82 35372977.94 35372978.06 0.0514 0.0189

Jupiter 92136-01-25 14:53 G 35373067.08 35373067.12 35373067.16 0.0512 0.0481

Venus 92137-11-16 02:53 G 35373727.49 35373727.62 35373727.76 0.3751 0.2079

Mars 92138-02-16 12:58 G 35373819.90 35373820.04 35373820.19 0.1953 0.0968

Uranus 92138-09-17 22:05 G 35374033.35 35374033.42 35374033.49 0.0143 0.0122

Uranus 92138-12-15 01:26 G 35374121.48 35374121.56 35374121.66 0.0143 0.0101

Uranus 92139-03-13 05:02 G 35374209.61 35374209.71 35374209.83 0.0143 0.0079

Uranus 92139-06-09 08:38 G 35374297.75 35374297.86 35374297.99 0.0143 0.0057

Uranus 92139-09-05 12:29 G 35374385.89 35374386.02 35374386.15 0.0144 0.0034

Uranus 92139-12-02 16:05 G 35374474.04 35374474.17 35374474.30 0.0144 0.0012

Uranus 92140-02-28 19:41 G 35374562.19 35374562.32 35374562.45 0.0144 0.0011

Uranus 92140-05-26 23:17 G 35374650.34 35374650.47 35374650.60 0.0144 0.0033

Venus 92140-08-20 11:02 G 35374735.93 35374735.96 35374735.99 0.3624 0.3410

Uranus 92140-08-23 02:53 G 35374738.50 35374738.62 35374738.74 0.0144 0.0056

Uranus 92140-11-19 06:29 G 35374826.66 35374826.77 35374826.89 0.0144 0.0078

Uranus 92141-02-15 10:05 G 35374914.83 35374914.92 35374915.02 0.0144 0.0101

Uranus 92141-05-14 13:41 G 35375003.02 35375003.07 35375003.15 0.0144 0.0124

Earth 92141-11-07 15:36 G 35375180.05 35375180.15 35375180.25 0.2632 0.1098

Moon 92141-11-07 16:05 G 35375180.07 35375180.17 35375180.28 0.2636 0.1083 *

Jupiter 92141-12-22 08:38 G 35375224.74 35375224.86 35375224.99 0.0512 0.0376

Saturn 92142-09-15 08:24 G 35375491.69 35375491.85 35375492.03 0.0293 0.0114

Mars 92142-10-23 05:31 G 35375529.64 35375529.73 35375529.82 0.1585 0.0994

Saturn 92142-12-13 10:05 G 35375580.75 35375580.92 35375581.09 0.0295 0.0107

Mars 92144-09-27 06:29 G 35376234.65 35376234.77 35376234.88 0.1585 0.0393

Moon 92145-05-14 00:58 G 35376463.39 35376463.54 35376463.68 0.2698 0.1050

Earth 92145-05-14 02:24 G 35376463.46 35376463.60 35376463.73 0.2701 0.1212 *

Venus 92146-03-06 01:55 G 35376759.49 35376759.58 35376759.67 0.3622 0.1423

Jupiter 92147-08-16 14:24 G 35377288.02 35377288.10 35377288.19 0.0514 0.0372

Jupiter 92147-11-13 18:43 G 35377377.18 35377377.28 35377377.39 0.0512 0.0298

Venus 92151-09-19 16:48 G 35378783.10 35378783.20 35378783.30 0.3621 0.0578

Mars 92152-03-14 17:17 G 35378960.16 35378960.22 35378960.28 0.1585 0.1327

Jupiter 92154-01-08 18:14 G 35379625.15 35379625.26 35379625.38 0.0513 0.0391

Mars 92154-02-17 18:00 G 35379665.13 35379665.25 35379665.37 0.1584 0.0058

Pluto 92154-04-14 15:50 G 35379721.13 35379721.16 35379721.24 0.0061 0.0058

Pluto 92154-07-11 17:17 G 35379809.12 35379809.22 35379809.34 0.0061 0.0048

Pluto 92154-10-07 18:14 G 35379897.13 35379897.26 35379897.42 0.0061 0.0038

Earth 92154-11-10 09:22 G 35379930.78 35379930.89 35379931.00 0.2631 0.0288

Moon 92154-11-10 10:05 G 35379930.81 35379930.92 35379931.03 0.2632 0.0436 *

Pluto 92155-01-03 19:41 G 35379985.16 35379985.32 35379985.49 0.0061 0.0027

Pluto 92155-04-01 20:38 G 35380073.20 35380073.36 35380073.55 0.0061 0.0017

Pluto 92155-06-28 22:05 G 35380161.24 35380161.42 35380161.60 0.0062 0.0005

Pluto 92155-09-24 23:17 G 35380249.29 35380249.47 35380249.65 0.0062 0.0005

Saturn 92155-10-25 13:55 G 35380280.03 35380280.08 35380280.13 0.0270 0.0247

Pluto 92155-12-22 00:14 G 35380337.34 35380337.51 35380337.69 0.0062 0.0016

Saturn 92156-01-22 00:00 G 35380368.39 35380368.50 35380368.62 0.0269 0.0131

Mars 92156-01-23 19:41 G 35380370.28 35380370.32 35380370.36 0.1587 0.1470

Pluto 92156-03-19 01:12 G 35380425.40 35380425.55 35380425.73 0.0062 0.0027

Saturn 92156-04-19 10:05 G 35380456.79 35380456.92 35380457.06 0.0268 0.0018

Pluto 92156-06-15 02:24 G 35380513.47 35380513.60 35380513.76 0.0062 0.0037

Saturn 92156-07-16 20:10 G 35380545.22 35380545.34 35380545.47 0.0267 0.0100

Pluto 92156-09-11 03:22 G 35380601.55 35380601.64 35380601.77 0.0062 0.0048

Saturn 92156-10-13 06:14 G 35380633.69 35380633.76 35380633.85 0.0267 0.0214

Pluto 92156-12-08 04:48 G 35380689.65 35380689.70 35380689.76 0.0062 0.0058

Venus 92157-04-04 07:41 G 35380806.75 35380806.82 35380806.89 0.3620 0.2579

Mars 92158-11-06 06:14 G 35381387.68 35381387.76 35381387.84 0.1952 0.1709

Jupiter 92159-09-01 23:02 G 35381687.34 35381687.46 35381687.59 0.0513 0.0128

Mars 92163-07-11 05:46 G 35383095.63 35383095.74 35383095.86 0.1584 0.0293

Mars 92165-06-15 07:12 G 35383800.71 35383800.80 35383800.88 0.1586 0.1118

Jupiter 92165-10-27 14:10 G 35383934.91 35383935.09 35383935.27 0.0513 0.0132

Earth 92167-11-13 03:07 G 35384681.54 35384681.63 35384681.71 0.2631 0.1686

Moon 92167-11-13 03:36 G 35384681.56 35384681.65 35384681.73 0.2625 0.1715 *

Mars 92168-03-27 22:19 G 35384817.27 35384817.43 35384817.59 0.1953 0.0431

Jupiter 92171-06-21 03:50 G 35385997.53 35385997.66 35385997.78 0.0514 0.0044

Saturn 92172-02-02 08:10 G 35386223.69 35386223.84 35386224.00 0.0294 0.0164

Saturn 92172-05-01 09:50 G 35386312.73 35386312.91 35386313.09 0.0295 0.0057

Saturn 92172-07-29 11:02 G 35386401.90 35386401.96 35386402.03 0.0296 0.0277

Mars 92172-11-30 17:31 G 35386526.13 35386526.23 35386526.34 0.1584 0.0630

Mars 92174-11-05 18:43 G 35387231.18 35387231.28 35387231.39 0.1585 0.0771

Earth 92174-11-06 02:53 G 35387231.56 35387231.62 35387231.68 0.2633 0.2192

Moon 92174-11-06 02:53 G 35387231.57 35387231.62 35387231.68 0.2639 0.2232 *

Jupiter 92177-08-15 10:05 G 35388244.74 35388244.92 35388245.10 0.0512 0.0127

Mars 92177-08-17 14:10 G 35388246.94 35388247.09 35388247.24 0.1953 0.0872

Moon 92178-05-12 01:12 G 35388514.41 35388514.55 35388514.69 0.2695 0.1304

Earth 92178-05-12 02:24 G 35388514.46 35388514.60 35388514.73 0.2701 0.1276 *

Uranus 92180-01-11 19:26 G 35389124.31 35389124.31 35389124.32 0.0135 0.0135

Uranus 92180-04-09 02:38 G 35389212.51 35389212.61 35389212.73 0.0135 0.0108

Uranus 92180-07-06 09:50 G 35389300.77 35389300.91 35389301.08 0.0135 0.0081

Uranus 92180-10-02 17:17 G 35389389.05 35389389.22 35389389.40 0.0135 0.0054

Uranus 92180-12-30 00:29 G 35389477.34 35389477.52 35389477.71 0.0135 0.0027

Uranus 92181-03-28 07:41 G 35389565.63 35389565.82 35389566.02 0.0135 0.0002

Uranus 92181-06-24 14:53 G 35389653.93 35389654.12 35389654.31 0.0135 0.0026

Uranus 92181-09-20 21:50 G 35389742.24 35389742.41 35389742.59 0.0135 0.0053

Uranus 92181-12-18 05:02 G 35389830.56 35389830.71 35389830.87 0.0135 0.0079

Uranus 92182-03-16 11:46 G 35389918.89 35389918.99 35389919.12 0.0135 0.0106

Mars 92182-04-23 05:17 G 35389956.63 35389956.72 35389956.82 0.1585 0.0967

Uranus 92182-06-12 19:12 G 35390007.26 35390007.30 35390007.34 0.0135 0.0131

Jupiter 92183-04-09 08:38 G 35390307.74 35390307.86 35390307.98 0.0514 0.0200

Jupiter 92183-07-07 12:58 G 35390396.99 35390397.04 35390397.09 0.0512 0.0471

Mars 92184-03-28 06:29 G 35390661.65 35390661.77 35390661.88 0.1585 0.0426

Saturn 92185-06-10 03:07 G 35391100.53 35391100.63 35391100.74 0.0269 0.0160

Neptune 92185-07-28 14:24 G 35391149.06 35391149.10 35391149.15 0.0090 0.0087

Saturn 92185-09-06 13:26 G 35391188.93 35391189.06 35391189.19 0.0268 0.0045

Neptune 92185-10-24 18:00 G 35391237.16 35391237.25 35391237.36 0.0090 0.0076

Saturn 92185-12-03 23:31 G 35391277.35 35391277.48 35391277.61 0.0267 0.0070

Neptune 92186-01-20 21:36 G 35391325.28 35391325.40 35391325.54 0.0090 0.0065

Saturn 92186-03-02 09:36 G 35391365.81 35391365.90 35391365.99 0.0267 0.0185

Neptune 92186-04-19 01:12 G 35391413.40 35391413.55 35391413.71 0.0090 0.0054

Neptune 92186-07-16 05:02 G 35391501.54 35391501.71 35391501.88 0.0090 0.0043

Neptune 92186-10-12 08:38 G 35391589.68 35391589.86 35391590.04 0.0090 0.0032

Neptune 92187-01-08 12:00 G 35391677.82 35391678.00 35391678.20 0.0090 0.0022

Neptune 92187-04-06 15:36 G 35391765.97 35391766.15 35391766.35 0.0090 0.0011

Neptune 92187-07-03 19:26 G 35391854.12 35391854.31 35391854.50 0.0090 0.0001

Neptune 92187-09-29 22:48 G 35391942.27 35391942.45 35391942.65 0.0090 0.0012

Earth 92187-11-08 20:24 G 35391982.24 35391982.35 35391982.46 0.2632 0.0825

Moon 92187-11-08 21:07 G 35391982.27 35391982.38 35391982.48 0.2635 0.0669 *

Neptune 92187-12-27 02:24 G 35392030.42 35392030.60 35392030.79 0.0090 0.0022

Neptune 92188-03-24 06:00 G 35392118.58 35392118.75 35392118.93 0.0090 0.0033

Neptune 92188-06-20 09:36 G 35392206.74 35392206.90 35392207.07 0.0090 0.0044

Neptune 92188-09-16 12:58 G 35392294.90 35392295.04 35392295.20 0.0090 0.0055

Neptune 92188-12-13 16:19 G 35392383.07 35392383.18 35392383.33 0.0090 0.0066

Neptune 92189-03-11 20:10 G 35392471.25 35392471.34 35392471.44 0.0090 0.0076

Jupiter 92189-06-03 05:31 G 35392554.61 35392554.73 35392554.85 0.0512 0.0392

Neptune 92189-06-07 23:31 G 35392559.45 35392559.48 35392559.53 0.0090 0.0087

Moon 92191-05-15 07:26 G 35393265.68 35393265.81 35393265.94 0.2699 0.1517

Earth 92191-05-15 08:53 G 35393265.76 35393265.87 35393265.99 0.2702 0.1780 *

Mars 92191-09-13 17:17 G 35393387.15 35393387.22 35393387.28 0.1585 0.1297

Mars 92193-08-18 18:00 G 35394092.13 35394092.25 35394092.37 0.1584 0.0079

Venus 92194-06-23 06:14 G 35394400.60 35394400.76 35394400.92 0.3752 0.0887

Jupiter 92195-01-26 13:12 G 35394617.97 35394618.05 35394618.14 0.0514 0.0365

Jupiter 92195-04-25 17:31 G 35394707.13 35394707.23 35394707.34 0.0512 0.0306

Mars 92195-07-24 19:41 G 35394797.28 35394797.32 35394797.36 0.1587 0.1502

Venus 92197-03-27 08:24 G 35395408.78 35395408.85 35395408.92 0.3623 0.2681

Mars 92198-05-07 06:43 G 35395814.71 35395814.78 35395814.85 0.1952 0.1771

Earth 92200-11-11 14:10 G 35396732.98 35396733.09 35396733.20 0.2631 0.0567

Moon 92200-11-11 14:53 G 35396733.01 35396733.12 35396733.23 0.2630 0.0609 *

Jupiter 92201-06-21 15:07 G 35396955.01 35396955.13 35396955.26 0.0513 0.0373

Saturn 92201-06-22 06:29 G 35396955.65 35396955.77 35396955.89 0.0293 0.0223

Saturn 92201-09-19 08:10 G 35397044.65 35397044.84 35397045.02 0.0294 0.0004

Saturn 92201-12-17 09:22 G 35397133.77 35397133.89 35397134.02 0.0295 0.0217

Venus 92202-10-11 23:17 G 35397432.37 35397432.47 35397432.57 0.3622 0.0695

Mars 92203-01-10 05:46 G 35397522.63 35397522.74 35397522.86 0.1584 0.0260

Mars 92204-12-15 07:12 G 35398227.72 35398227.80 35398227.88 0.1586 0.1149

Jupiter 92207-02-12 21:22 G 35399017.27 35399017.39 35399017.52 0.0513 0.0125

Mars 92207-09-27 23:02 G 35399244.31 35399244.46 35399244.62 0.1953 0.0510

Venus 92208-04-26 14:10 G 35399455.99 35399456.09 35399456.18 0.3621 0.1315

Mars 92212-06-01 17:31 G 35400953.12 35400953.23 35400953.34 0.1584 0.0599

Jupiter 92213-04-09 12:00 G 35401264.83 35401265.00 35401265.18 0.0513 0.0133

Venus 92213-11-10 05:02 G 35401479.67 35401479.71 35401479.74 0.3620 0.3317

Earth 92213-11-14 07:55 G 35401483.76 35401483.83 35401483.90 0.2631 0.1971

Moon 92213-11-14 08:24 G 35401483.78 35401483.85 35401483.92 0.2625 0.2062 *

Mars 92214-05-07 18:43 G 35401658.18 35401658.28 35401658.38 0.1585 0.0802

Saturn 92214-10-29 06:43 G 35401832.69 35401832.78 35401832.87 0.0270 0.0186

Saturn 92215-01-25 16:48 G 35401921.07 35401921.20 35401921.33 0.0269 0.0071

Saturn 92215-04-24 02:53 G 35402009.49 35402009.62 35402009.75 0.0268 0.0044

Saturn 92215-07-21 12:58 G 35402097.94 35402098.04 35402098.15 0.0267 0.0159

Mars 92217-02-16 15:07 G 35402673.98 35402674.13 35402674.28 0.1953 0.0789

Jupiter 92218-12-02 01:55 G 35403327.45 35403327.58 35403327.71 0.0513 0.0047

Earth 92220-11-07 07:41 G 35404033.74 35404033.82 35404033.89 0.2633 0.1919

Moon 92220-11-07 07:55 G 35404033.75 35404033.83 35404033.91 0.2639 0.1852 *

Mars 92221-10-23 05:17 G 35404383.63 35404383.72 35404383.82 0.1585 0.0934

Uranus 92222-07-13 02:10 G 35404646.56 35404646.59 35404646.63 0.0143 0.0136

Uranus 92222-10-09 05:46 G 35404734.67 35404734.74 35404734.82 0.0143 0.0114

Uranus 92223-01-05 09:22 G 35404822.79 35404822.89 35404822.99 0.0143 0.0092

Uranus 92223-04-03 12:58 G 35404910.93 35404911.04 35404911.16 0.0143 0.0070

Uranus 92223-06-30 16:34 G 35404999.07 35404999.19 35404999.32 0.0144 0.0048

Uranus 92223-09-26 20:10 G 35405087.21 35405087.34 35405087.47 0.0144 0.0026

Mars 92223-09-28 06:29 G 35405088.65 35405088.77 35405088.88 0.1585 0.0458

Uranus 92223-12-23 23:46 G 35405175.36 35405175.49 35405175.62 0.0144 0.0004

Uranus 92224-03-21 03:22 G 35405263.51 35405263.64 35405263.77 0.0144 0.0019

Moon 92224-05-13 07:55 G 35405316.68 35405316.83 35405316.97 0.2695 0.0963

Earth 92224-05-13 08:53 G 35405316.72 35405316.87 35405317.02 0.2701 0.0693 *

Uranus 92224-06-17 06:58 G 35405351.67 35405351.79 35405351.92 0.0144 0.0041

Uranus 92224-09-13 10:34 G 35405439.83 35405439.94 35405440.07 0.0144 0.0064

Uranus 92224-12-10 14:24 G 35405527.99 35405528.10 35405528.20 0.0144 0.0086

Jupiter 92225-01-26 07:55 G 35405574.66 35405574.83 35405575.01 0.0512 0.0125

Uranus 92225-03-08 18:00 G 35405616.17 35405616.25 35405616.34 0.0144 0.0109

Uranus 92225-06-04 21:36 G 35405704.35 35405704.40 35405704.46 0.0144 0.0132

Jupiter 92230-09-20 06:29 G 35407637.66 35407637.77 35407637.89 0.0514 0.0213

Saturn 92230-11-09 05:17 G 35407687.67 35407687.72 35407687.77 0.0293 0.0281

Jupiter 92230-12-18 10:48 G 35407726.90 35407726.95 35407727.01 0.0512 0.0459

Saturn 92231-02-06 06:58 G 35407776.61 35407776.79 35407776.97 0.0294 0.0060

Mars 92231-03-15 17:17 G 35407814.15 35407814.22 35407814.29 0.1585 0.1266

Saturn 92231-05-06 08:24 G 35407865.70 35407865.85 35407866.01 0.0295 0.0161

Mars 92233-02-17 18:00 G 35408519.13 35408519.25 35408519.37 0.1584 0.0114

Earth 92233-11-10 01:12 G 35408784.44 35408784.55 35408784.66 0.2632 0.0547

Moon 92233-11-10 01:55 G 35408784.47 35408784.58 35408784.69 0.2635 0.0510 *

Mars 92235-01-23 19:41 G 35409224.29 35409224.32 35409224.35 0.1587 0.1535

Jupiter 92236-11-14 03:50 G 35409884.54 35409884.66 35409884.79 0.0511 0.0382

Moon 92237-05-16 13:55 G 35410067.99 35410068.08 35410068.16 0.2701 0.2221

Earth 92237-05-16 15:22 G 35410068.07 35410068.14 35410068.22 0.2702 0.2337 *

Mars 92237-11-06 07:41 G 35410241.77 35410241.82 35410241.87 0.1952 0.1856

Jupiter 92242-07-09 11:31 G 35411947.89 35411947.98 35411948.06 0.0515 0.0372

Mars 92242-07-11 05:46 G 35411949.62 35411949.74 35411949.86 0.1584 0.0229

Jupiter 92242-10-06 15:50 G 35412037.05 35412037.16 35412037.26 0.0513 0.0299

Saturn 92244-03-17 09:36 G 35412564.83 35412564.90 35412564.98 0.0269 0.0217

Saturn 92244-06-13 19:41 G 35412653.20 35412653.32 35412653.45 0.0268 0.0102

Mars 92244-06-15 07:12 G 35412654.72 35412654.80 35412654.88 0.1586 0.1184

Saturn 92244-09-10 06:00 G 35412741.61 35412741.75 35412741.88 0.0268 0.0015

Saturn 92244-12-07 16:05 G 35412830.05 35412830.17 35412830.28 0.0267 0.0128

Saturn 92245-03-06 02:10 G 35412918.54 35412918.59 35412918.64 0.0266 0.0242

Earth 92246-11-12 18:58 G 35413535.18 35413535.29 35413535.40 0.2631 0.0846

Moon 92246-11-12 19:41 G 35413535.21 35413535.32 35413535.42 0.2628 0.1001 *

Pluto 92247-02-10 06:29 G 35413624.69 35413624.77 35413624.85 0.0083 0.0068

Mars 92247-03-29 00:00 G 35413671.34 35413671.50 35413671.66 0.1953 0.0587

Pluto 92247-05-09 07:41 G 35413712.71 35413712.82 35413712.94 0.0083 0.0048

Pluto 92247-08-05 09:07 G 35413800.75 35413800.88 35413801.01 0.0083 0.0028

Pluto 92247-11-01 10:34 G 35413888.80 35413888.94 35413889.08 0.0083 0.0008

Pluto 92248-01-28 11:46 G 35413976.85 35413976.99 35413977.13 0.0083 0.0012

Pluto 92248-04-25 13:12 G 35414064.92 35414065.05 35414065.18 0.0083 0.0032

Pluto 92248-07-22 14:24 G 35414152.99 35414153.10 35414153.21 0.0082 0.0052

Pluto 92248-10-18 15:36 G 35414241.09 35414241.15 35414241.22 0.0082 0.0072

Jupiter 92248-12-01 12:14 G 35414284.89 35414285.01 35414285.14 0.0513 0.0365

Venus 92251-01-29 09:07 G 35415073.88 35415073.88 35415073.89 0.3752 0.3748

Mars 92251-12-01 17:31 G 35415380.12 35415380.23 35415380.34 0.1584 0.0569

Venus 92253-11-02 05:46 G 35416081.65 35416081.74 35416081.82 0.3623 0.1959

Mars 92253-11-05 18:43 G 35416085.18 35416085.28 35416085.38 0.1585 0.0832

Jupiter 92254-07-25 20:24 G 35416347.23 35416347.35 35416347.48 0.0513 0.0136

Mars 92256-08-17 15:36 G 35417101.00 35417101.15 35417101.31 0.1953 0.0725

Venus 92259-05-18 20:24 G 35418105.25 35418105.35 35418105.45 0.3622 0.0123

Earth 92259-11-15 12:43 G 35418285.98 35418286.03 35418286.09 0.2631 0.2257

Moon 92259-11-15 12:58 G 35418285.99 35418286.04 35418286.10 0.2625 0.2253 *

Saturn 92260-06-25 04:19 G 35418508.52 35418508.68 35418508.85 0.0294 0.0127

Jupiter 92260-09-19 09:07 G 35418594.71 35418594.88 35418595.07 0.0513 0.0123

Saturn 92260-09-22 06:00 G 35418597.57 35418597.75 35418597.93 0.0295 0.0094

Mars 92261-04-23 05:17 G 35418810.63 35418810.72 35418810.82 0.1585 0.0903

Mars 92263-03-29 06:14 G 35419515.65 35419515.76 35419515.88 0.1585 0.0489

Uranus 92264-02-02 03:36 G 35419825.58 35419825.65 35419825.73 0.0135 0.0124

Uranus 92264-04-30 10:48 G 35419913.83 35419913.95 35419914.09 0.0135 0.0097

Uranus 92264-07-27 18:14 G 35420002.10 35420002.26 35420002.43 0.0135 0.0070

Uranus 92264-10-24 01:26 G 35420090.38 35420090.56 35420090.75 0.0135 0.0043

Venus 92264-12-01 11:17 G 35420128.89 35420128.97 35420129.05 0.3621 0.2038

Uranus 92265-01-20 08:38 G 35420178.67 35420178.86 35420179.06 0.0135 0.0017

Uranus 92265-04-18 15:50 G 35420266.97 35420267.16 35420267.36 0.0135 0.0011

Uranus 92265-07-15 23:02 G 35420355.28 35420355.46 35420355.65 0.0135 0.0037

Uranus 92265-10-12 06:00 G 35420443.59 35420443.75 35420443.93 0.0135 0.0063

Uranus 92266-01-08 12:58 G 35420531.91 35420532.04 35420532.19 0.0135 0.0090

Uranus 92266-04-06 19:55 G 35420620.25 35420620.33 35420620.44 0.0135 0.0116

Jupiter 92266-05-14 00:29 G 35420657.39 35420657.52 35420657.64 0.0513 0.0048

Neptune 92266-08-10 03:22 G 35420745.64 35420745.64 35420745.66 0.0088 0.0087

Neptune 92266-11-06 04:34 G 35420833.65 35420833.69 35420833.75 0.0088 0.0081

Earth 92266-11-08 12:29 G 35420835.93 35420836.02 35420836.10 0.2633 0.1648

Moon 92266-11-08 12:58 G 35420835.95 35420836.04 35420836.12 0.2638 0.1601 *

Neptune 92267-02-02 05:46 G 35420921.69 35420921.74 35420921.83 0.0088 0.0074

Neptune 92267-05-01 07:12 G 35421009.73 35421009.80 35421009.90 0.0088 0.0067

Neptune 92267-07-28 08:24 G 35421097.77 35421097.85 35421097.96 0.0088 0.0060

Neptune 92267-10-24 09:50 G 35421185.81 35421185.91 35421186.03 0.0088 0.0052

Neptune 92268-01-20 11:02 G 35421273.86 35421273.96 35421274.09 0.0088 0.0046

Neptune 92268-04-17 12:29 G 35421361.91 35421362.02 35421362.15 0.0088 0.0038

Neptune 92268-07-14 13:55 G 35421449.96 35421450.08 35421450.21 0.0088 0.0031

Neptune 92268-10-10 15:07 G 35421538.01 35421538.13 35421538.26 0.0088 0.0024

Neptune 92269-01-06 16:34 G 35421626.06 35421626.19 35421626.32 0.0088 0.0017

Neptune 92269-04-04 17:46 G 35421714.11 35421714.24 35421714.38 0.0088 0.0010

Neptune 92269-07-01 19:12 G 35421802.16 35421802.30 35421802.43 0.0088 0.0003

Neptune 92269-09-27 20:24 G 35421890.22 35421890.35 35421890.49 0.0088 0.0005

Neptune 92269-12-24 21:50 G 35421978.27 35421978.41 35421978.54 0.0088 0.0012

Neptune 92270-03-22 23:02 G 35422066.33 35422066.46 35422066.59 0.0088 0.0019

Moon 92270-05-14 14:24 G 35422118.94 35422119.10 35422119.25 0.2696 0.0171

Earth 92270-05-14 15:36 G 35422118.99 35422119.15 35422119.30 0.2701 0.0122 *

Neptune 92270-06-19 00:29 G 35422154.39 35422154.52 35422154.65 0.0088 0.0026

Mars 92270-09-13 17:17 G 35422241.14 35422241.22 35422241.29 0.1585 0.1238

Neptune 92270-09-15 01:41 G 35422242.45 35422242.57 35422242.70 0.0088 0.0033

Neptune 92270-12-12 03:07 G 35422330.51 35422330.63 35422330.75 0.0088 0.0040

Neptune 92271-03-10 04:05 G 35422418.57 35422418.67 35422418.80 0.0088 0.0048

Neptune 92271-06-06 05:31 G 35422506.63 35422506.73 35422506.84 0.0088 0.0054

Neptune 92271-09-02 06:43 G 35422594.70 35422594.78 35422594.89 0.0088 0.0062

Neptune 92271-11-29 08:10 G 35422682.77 35422682.84 35422682.93 0.0088 0.0069

Neptune 92272-02-25 09:36 G 35422770.84 35422770.90 35422770.97 0.0088 0.0076

Neptune 92272-05-23 11:02 G 35422858.92 35422858.96 35422859.00 0.0088 0.0083

Jupiter 92272-07-08 06:14 G 35422904.58 35422904.76 35422904.94 0.0512 0.0117

Mars 92272-08-18 18:00 G 35422946.13 35422946.25 35422946.37 0.1584 0.0144

Saturn 92273-08-04 12:43 G 35423296.99 35423297.03 35423297.09 0.0270 0.0247

Saturn 92273-10-31 23:02 G 35423385.34 35423385.46 35423385.57 0.0269 0.0131

Saturn 92274-01-28 09:07 G 35423473.75 35423473.88 35423474.01 0.0268 0.0016

Saturn 92274-04-26 19:12 G 35423562.18 35423562.30 35423562.42 0.0267 0.0099

Saturn 92274-07-24 05:17 G 35423650.64 35423650.72 35423650.80 0.0266 0.0213

Mars 92274-07-24 19:41 G 35423651.31 35423651.32 35423651.33 0.1587 0.1569

Mars 92277-05-07 08:38 G 35424668.85 35424668.86 35424668.87 0.1952 0.1940

Jupiter 92278-03-02 04:48 G 35424967.59 35424967.70 35424967.82 0.0514 0.0216

Jupiter 92278-05-30 09:07 G 35425056.83 35425056.88 35425056.94 0.0512 0.0456

Earth 92279-11-11 06:00 G 35425586.64 35425586.75 35425586.86 0.2632 0.0276

Moon 92279-11-11 06:43 G 35425586.67 35425586.78 35425586.89 0.2634 0.0122 *

Mars 92280-02-04 05:02 G 35425671.70 35425671.71 35425671.73 0.1586 0.1567

Mars 92282-01-09 05:46 G 35426376.62 35426376.74 35426376.86 0.1584 0.0198

Moon 92283-05-17 20:24 G 35426870.31 35426870.35 35426870.39 0.2702 0.2578

Mars 92283-12-15 07:12 G 35427081.72 35427081.80 35427081.87 0.1586 0.1216

Jupiter 92284-04-26 02:24 G 35427214.47 35427214.60 35427214.73 0.0511 0.0370

Mars 92286-09-27 00:58 G 35428098.38 35428098.54 35428098.69 0.1953 0.0671

Saturn 92289-11-12 02:10 G 35429240.45 35429240.59 35429240.74 0.0294 0.0193

Jupiter 92289-12-19 09:36 G 35429277.81 35429277.90 35429277.98 0.0515 0.0381

Saturn 92290-02-09 03:50 G 35429329.48 35429329.66 35429329.85 0.0295 0.0029

Jupiter 92290-03-18 13:55 G 35429366.97 35429367.08 35429367.18 0.0513 0.0291

Saturn 92290-05-09 05:02 G 35429418.63 35429418.71 35429418.82 0.0296 0.0250

Mars 92291-06-01 17:31 G 35429807.12 35429807.23 35429807.34 0.1584 0.0536

Earth 92292-11-12 23:46 G 35430337.39 35430337.49 35430337.59 0.2631 0.1132

Moon 92292-11-13 00:29 G 35430337.42 35430337.52 35430337.62 0.2627 0.1154 *

Mars 92293-05-06 18:43 G 35430512.18 35430512.28 35430512.38 0.1585 0.0867

Mars 92296-02-16 16:48 G 35431528.04 35431528.20 35431528.35 0.1953 0.0638

Jupiter 92296-05-13 11:17 G 35431614.85 35431614.97 35431615.09 0.0513 0.0382

Mars 92300-10-23 05:17 G 35433237.62 35433237.72 35433237.82 0.1584 0.0875

Jupiter 92302-01-05 18:43 G 35433677.16 35433677.28 35433677.41 0.0513 0.0133

Venus 92302-02-19 22:48 G 35433722.33 35433722.45 35433722.57 0.3751 0.2578

Mars 92302-09-28 06:14 G 35433942.65 35433942.76 35433942.88 0.1584 0.0522

Saturn 92303-03-22 01:41 G 35434117.47 35434117.57 35434117.68 0.0269 0.0164

Earth 92303-05-13 15:22 G 35434170.11 35434170.14 35434170.16 0.2700 0.2647

Saturn 92303-06-18 11:46 G 35434205.87 35434205.99 35434206.12 0.0268 0.0050

Saturn 92303-09-14 22:05 G 35434294.29 35434294.42 35434294.54 0.0267 0.0066

Saturn 92303-12-12 07:55 G 35434382.74 35434382.83 35434382.93 0.0266 0.0180

Venus 92304-11-24 12:00 G 35434730.96 35434731.00 35434731.05 0.3624 0.3208

Earth 92305-11-16 17:31 G 35435088.21 35435088.23 35435088.26 0.2630 0.2543

Moon 92305-11-16 17:46 G 35435088.23 35435088.24 35435088.25 0.2624 0.2612 *

Uranus 92306-08-03 10:19 G 35435347.87 35435347.93 35435347.99 0.0143 0.0127

Uranus 92306-10-30 13:41 G 35435435.99 35435436.07 35435436.17 0.0143 0.0105

Uranus 92307-01-26 17:17 G 35435524.12 35435524.22 35435524.33 0.0143 0.0083

Uranus 92307-04-24 20:53 G 35435612.25 35435612.37 35435612.49 0.0144 0.0061

Uranus 92307-07-22 00:29 G 35435700.40 35435700.52 35435700.65 0.0144 0.0039

Uranus 92307-10-18 04:05 G 35435788.54 35435788.67 35435788.81 0.0144 0.0017

Uranus 92308-01-14 07:41 G 35435876.69 35435876.82 35435876.96 0.0144 0.0008

Jupiter 92308-03-02 07:12 G 35435924.62 35435924.80 35435924.98 0.0512 0.0123

Uranus 92308-04-11 11:17 G 35435964.85 35435964.97 35435965.11 0.0144 0.0029

Uranus 92308-07-08 14:53 G 35436053.00 35436053.12 35436053.25 0.0144 0.0051

Uranus 92308-10-04 18:43 G 35436141.17 35436141.28 35436141.39 0.0144 0.0073

Uranus 92308-12-31 22:19 G 35436229.34 35436229.43 35436229.53 0.0144 0.0096

Uranus 92309-03-30 02:10 G 35436317.51 35436317.59 35436317.66 0.0144 0.0118

Uranus 92309-06-26 05:46 G 35436405.72 35436405.74 35436405.76 0.0144 0.0141

Mars 92310-03-15 17:17 G 35436668.14 35436668.22 35436668.29 0.1585 0.1208

Venus 92310-06-10 02:53 G 35436754.53 35436754.62 35436754.72 0.3623 0.1223

Mars 92312-02-18 18:00 G 35437373.13 35437373.25 35437373.36 0.1584 0.0176

Earth 92312-11-09 17:17 G 35437638.12 35437638.22 35437638.31 0.2633 0.1374

Moon 92312-11-09 17:46 G 35437638.14 35437638.24 35437638.33 0.2638 0.1309 *

Jupiter 92313-10-24 23:46 G 35437987.36 35437987.49 35437987.61 0.0514 0.0035

Venus 92315-12-24 17:46 G 35438778.14 35438778.24 35438778.34 0.3621 0.0772

Moon 92316-05-15 20:53 G 35438921.21 35438921.37 35438921.52 0.2697 0.0196

Earth 92316-05-15 22:05 G 35438921.27 35438921.42 35438921.57 0.2701 0.0450 *

Saturn 92319-04-01 22:34 G 35439972.37 35439972.44 35439972.52 0.0293 0.0268

Saturn 92319-06-30 00:14 G 35440061.33 35440061.51 35440061.70 0.0294 0.0048

Mars 92319-08-06 05:02 G 35440098.68 35440098.71 35440098.73 0.1586 0.1539

Saturn 92319-09-27 01:41 G 35440150.43 35440150.57 35440150.73 0.0295 0.0174

Jupiter 92319-12-20 04:05 G 35440234.49 35440234.67 35440234.85 0.0512 0.0118

Venus 92321-07-09 08:38 G 35440801.79 35440801.86 35440801.92 0.3621 0.2766

Mars 92321-07-11 05:46 G 35440803.62 35440803.74 35440803.86 0.1584 0.0167

Mars 92323-06-16 06:58 G 35441508.72 35441508.79 35441508.87 0.1586 0.1247

Jupiter 92325-08-13 03:36 G 35442297.54 35442297.65 35442297.77 0.0514 0.0209

Jupiter 92325-11-10 07:55 G 35442386.78 35442386.83 35442386.89 0.0512 0.0461

Earth 92325-11-12 10:48 G 35442388.84 35442388.95 35442389.07 0.2632 0.0093

Moon 92325-11-12 11:31 G 35442388.87 35442388.98 35442389.09 0.2632 0.0106 *

Mars 92326-03-29 01:26 G 35442525.41 35442525.56 35442525.72 0.1954 0.0743

Mars 92330-12-01 17:31 G 35444234.12 35444234.23 35444234.34 0.1584 0.0507

Jupiter 92331-10-08 00:58 G 35444544.42 35444544.54 35444544.68 0.0512 0.0356

Saturn 92332-08-08 04:48 G 35444849.61 35444849.70 35444849.79 0.0270 0.0197

Saturn 92332-11-04 14:53 G 35444937.99 35444938.12 35444938.24 0.0269 0.0082

Mars 92332-11-05 18:43 G 35444939.18 35444939.28 35444939.38 0.1585 0.0899

Saturn 92333-02-01 00:58 G 35445026.41 35445026.54 35445026.67 0.0268 0.0034

Saturn 92333-04-30 11:02 G 35445114.85 35445114.96 35445115.07 0.0267 0.0148

Saturn 92333-07-27 20:53 G 35445203.36 35445203.37 35445203.40 0.0266 0.0262

Mars 92335-08-18 17:46 G 35445955.08 35445955.24 35445955.40 0.1953 0.0545

Jupiter 92337-06-01 08:10 G 35446607.76 35446607.84 35446607.93 0.0514 0.0376

Jupiter 92337-08-29 12:29 G 35446696.92 35446697.02 35446697.13 0.0512 0.0294

Earth 92338-11-15 04:34 G 35447139.60 35447139.69 35447139.79 0.2631 0.1412

Moon 92338-11-15 05:17 G 35447139.63 35447139.72 35447139.81 0.2627 0.1553 *

Mars 92340-04-23 05:17 G 35447664.62 35447664.72 35447664.82 0.1584 0.0841

Mars 92342-03-29 06:14 G 35448369.65 35448369.76 35448369.87 0.1585 0.0552

Jupiter 92343-10-25 10:19 G 35448944.82 35448944.93 35448945.04 0.0513 0.0402

Mars 92345-01-07 08:53 G 35449384.83 35449384.87 35449384.91 0.1953 0.1891

Earth 92345-11-08 04:19 G 35449689.65 35449689.68 35449689.72 0.2634 0.2466

Moon 92345-11-08 04:34 G 35449689.66 35449689.69 35449689.72 0.2640 0.2505 *

Uranus 92348-02-23 11:46 G 35450526.90 35450526.99 35450527.11 0.0135 0.0113

Uranus 92348-05-21 19:12 G 35450615.16 35450615.30 35450615.46 0.0135 0.0086

Uranus 92348-08-18 02:24 G 35450703.44 35450703.60 35450703.78 0.0135 0.0059

Uranus 92348-11-14 09:50 G 35450791.72 35450791.91 35450792.10 0.0135 0.0032

Saturn 92348-11-15 21:22 G 35450793.22 35450793.39 35450793.57 0.0294 0.0120

Uranus 92349-02-10 17:02 G 35450880.02 35450880.21 35450880.40 0.0135 0.0005

Saturn 92349-02-12 23:02 G 35450882.29 35450882.46 35450882.64 0.0295 0.0102

Uranus 92349-05-10 00:14 G 35450968.32 35450968.51 35450968.70 0.0135 0.0021

Moon 92349-05-13 21:07 G 35450972.29 35450972.38 35450972.48 0.2693 0.2155

Earth 92349-05-13 21:50 G 35450972.32 35450972.41 35450972.51 0.2700 0.2065 *

Jupiter 92349-06-17 17:17 G 35451007.09 35451007.22 35451007.34 0.0513 0.0130

Uranus 92349-08-06 07:12 G 35451056.63 35451056.80 35451056.98 0.0135 0.0048

Mars 92349-09-13 17:02 G 35451095.14 35451095.21 35451095.29 0.1585 0.1178

Uranus 92349-11-02 14:24 G 35451144.94 35451145.10 35451145.26 0.0134 0.0074

Uranus 92350-01-29 21:07 G 35451233.27 35451233.38 35451233.52 0.0134 0.0101

Neptune 92350-04-26 11:02 G 35451319.93 35451319.96 35451320.04 0.0090 0.0086

Uranus 92350-04-28 04:05 G 35451321.62 35451321.67 35451321.75 0.0134 0.0127

Neptune 92350-07-23 14:53 G 35451408.03 35451408.12 35451408.24 0.0090 0.0075

Neptune 92350-10-19 18:29 G 35451496.15 35451496.27 35451496.42 0.0090 0.0064

Neptune 92351-01-15 22:05 G 35451584.28 35451584.42 35451584.59 0.0090 0.0053

Neptune 92351-04-14 01:55 G 35451672.42 35451672.58 35451672.76 0.0090 0.0042

Neptune 92351-07-11 05:31 G 35451760.56 35451760.73 35451760.92 0.0090 0.0031

Mars 92351-08-19 18:00 G 35451800.13 35451800.25 35451800.37 0.1584 0.0208

Neptune 92351-10-07 09:07 G 35451848.70 35451848.88 35451849.08 0.0090 0.0020

Neptune 92352-01-03 12:58 G 35451936.85 35451937.04 35451937.23 0.0090 0.0009

Neptune 92352-03-31 16:34 G 35452025.00 35452025.19 35452025.38 0.0090 0.0002

Neptune 92352-06-27 20:10 G 35452113.15 35452113.34 35452113.53 0.0090 0.0013

Neptune 92352-09-23 23:46 G 35452201.30 35452201.49 35452201.67 0.0090 0.0024

Neptune 92352-12-21 03:07 G 35452289.46 35452289.63 35452289.81 0.0090 0.0035

Neptune 92353-03-19 06:29 G 35452377.62 35452377.77 35452377.95 0.0090 0.0046

Neptune 92353-06-15 10:05 G 35452465.79 35452465.92 35452466.08 0.0090 0.0057

Neptune 92353-09-11 13:55 G 35452553.96 35452554.08 35452554.21 0.0090 0.0067

Neptune 92353-12-08 17:17 G 35452642.14 35452642.22 35452642.32 0.0090 0.0078

Neptune 92354-03-06 20:38 G 35452730.35 35452730.36 35452730.40 0.0090 0.0089

Jupiter 92355-08-13 06:29 G 35453254.60 35453254.77 35453254.95 0.0512 0.0151

Venus 92358-09-27 02:10 G 35454395.43 35454395.59 35454395.75 0.3751 0.0389

Earth 92358-11-10 22:05 G 35454440.32 35454440.42 35454440.52 0.2633 0.1100

Moon 92358-11-10 22:34 G 35454440.34 35454440.44 35454440.54 0.2638 0.1009 *

Mars 92359-02-04 05:02 G 35454525.68 35454525.71 35454525.74 0.1586 0.1512

Mars 92361-01-09 05:46 G 35455230.62 35455230.74 35455230.85 0.1584 0.0141

Jupiter 92361-04-05 22:05 G 35455317.30 35455317.42 35455317.55 0.0514 0.0032

Venus 92361-07-01 09:22 G 35455403.82 35455403.89 35455403.96 0.3623 0.2487

Saturn 92361-12-26 06:58 G 35455581.74 35455581.79 35455581.86 0.0269 0.0234

Saturn 92362-03-24 17:17 G 35455670.10 35455670.22 35455670.34 0.0269 0.0118

Moon 92362-05-17 03:07 G 35455723.49 35455723.63 35455723.78 0.2699 0.0877

Earth 92362-05-17 04:34 G 35455723.55 35455723.69 35455723.84 0.2701 0.1028 *

Saturn 92362-06-21 03:22 G 35455758.51 35455758.64 35455758.77 0.0268 0.0003

Saturn 92362-09-17 13:26 G 35455846.94 35455847.06 35455847.18 0.0267 0.0112

Saturn 92362-12-14 23:31 G 35455935.41 35455935.48 35455935.55 0.0266 0.0226

Mars 92362-12-15 07:12 G 35455935.73 35455935.80 35455935.86 0.1586 0.1283

Mars 92365-09-27 02:38 G 35456952.46 35456952.61 35456952.76 0.1953 0.0828

Venus 92367-01-15 00:14 G 35457427.41 35457427.51 35457427.61 0.3622 0.0518

Jupiter 92367-06-01 02:24 G 35457564.42 35457564.60 35457564.78 0.0512 0.0108

Mars 92370-06-01 17:31 G 35458661.11 35458661.23 35458661.34 0.1584 0.0479

Earth 92371-11-13 15:36 G 35459191.04 35459191.15 35459191.27 0.2632 0.0304

Moon 92371-11-13 16:19 G 35459191.07 35459191.18 35459191.29 0.2630 0.0404 *

Mars 92372-05-06 18:43 G 35459366.18 35459366.28 35459366.37 0.1585 0.0929

Venus 92372-07-30 14:53 G 35459451.03 35459451.12 35459451.21 0.3621 0.1488

Jupiter 92373-01-23 03:07 G 35459627.51 35459627.63 35459627.75 0.0514 0.0189

Jupiter 92373-04-22 07:26 G 35459716.77 35459716.81 35459716.85 0.0512 0.0483

Mars 92375-02-16 18:14 G 35460382.10 35460382.26 35460382.42 0.1954 0.0490

Venus 92378-02-13 05:46 G 35461474.72 35461474.74 35461474.77 0.3620 0.3494

Saturn 92378-04-04 17:02 G 35461525.08 35461525.21 35461525.35 0.0293 0.0202

Saturn 92378-07-02 18:43 G 35461614.09 35461614.28 35461614.47 0.0294 0.0020

Saturn 92378-09-29 20:10 G 35461703.24 35461703.34 35461703.45 0.0295 0.0241

Jupiter 92379-03-19 23:17 G 35461874.34 35461874.47 35461874.61 0.0512 0.0348

Mars 92379-10-23 05:17 G 35462091.62 35462091.72 35462091.82 0.1584 0.0812

Mars 92381-09-27 06:14 G 35462796.65 35462796.76 35462796.87 0.1585 0.0583

Mars 92384-07-08 10:05 G 35463811.86 35463811.92 35463811.98 0.1953 0.1799

Jupiter 92384-11-11 07:12 G 35463937.71 35463937.80 35463937.89 0.0514 0.0365

Earth 92384-11-15 09:22 G 35463941.81 35463941.89 35463941.98 0.2631 0.1697

Moon 92384-11-15 09:50 G 35463941.83 35463941.91 35463942.00 0.2627 0.1724 *

Jupiter 92385-02-08 11:31 G 35464026.87 35464026.98 35464027.08 0.0512 0.0305

Mars 92389-03-14 17:02 G 35465522.13 35465522.21 35465522.29 0.1585 0.1148

Uranus 92390-05-27 14:10 G 35465961.08 35465961.09 35465961.10 0.0143 0.0143

Uranus 92390-08-23 17:31 G 35466049.17 35466049.23 35466049.30 0.0143 0.0121

Uranus 92390-11-19 21:07 G 35466137.29 35466137.38 35466137.48 0.0143 0.0099

Uranus 92391-02-16 00:43 G 35466225.42 35466225.53 35466225.64 0.0144 0.0077

Mars 92391-02-17 18:00 G 35466227.13 35466227.25 35466227.36 0.1584 0.0240

Jupiter 92391-04-06 09:22 G 35466274.79 35466274.89 35466275.00 0.0513 0.0426

Uranus 92391-05-15 04:19 G 35466313.56 35466313.68 35466313.80 0.0144 0.0055

Saturn 92391-05-15 09:50 G 35466313.91 35466313.91 35466313.91 0.0270 0.0270

Uranus 92391-08-11 07:55 G 35466401.70 35466401.83 35466401.96 0.0144 0.0033

Saturn 92391-08-11 19:41 G 35466402.22 35466402.32 35466402.43 0.0269 0.0155

Uranus 92391-11-07 11:31 G 35466489.85 35466489.98 35466490.11 0.0144 0.0011

Saturn 92391-11-08 06:00 G 35466490.62 35466490.75 35466490.88 0.0268 0.0039

Earth 92391-11-09 09:07 G 35466491.83 35466491.88 35466491.94 0.2633 0.2193

Moon 92391-11-09 09:22 G 35466491.83 35466491.89 35466491.96 0.2640 0.2108 *

Uranus 92392-02-03 15:07 G 35466578.00 35466578.13 35466578.26 0.0144 0.0012

Saturn 92392-02-04 16:05 G 35466579.04 35466579.17 35466579.30 0.0268 0.0077

Uranus 92392-05-01 18:43 G 35466666.15 35466666.28 35466666.41 0.0144 0.0034

Saturn 92392-05-03 02:10 G 35466667.50 35466667.59 35466667.68 0.0267 0.0191

Uranus 92392-07-28 22:19 G 35466754.31 35466754.43 35466754.56 0.0144 0.0057

Uranus 92392-10-25 02:10 G 35466842.48 35466842.59 35466842.70 0.0144 0.0079

Uranus 92393-01-21 05:46 G 35466930.65 35466930.74 35466930.83 0.0144 0.0102

Uranus 92393-04-19 09:22 G 35467018.83 35467018.89 35467018.96 0.0144 0.0125

Moon 92395-05-15 03:50 G 35467774.53 35467774.66 35467774.79 0.2694 0.1600

Earth 92395-05-15 04:34 G 35467774.56 35467774.69 35467774.82 0.2700 0.1475 *

Jupiter 92396-11-27 16:05 G 35468337.05 35468337.17 35468337.29 0.0513 0.0139

Mars 92398-08-05 05:02 G 35468952.67 35468952.71 35468952.75 0.1586 0.1478

Pluto 92400-03-12 04:34 G 35469537.67 35469537.69 35469537.76 0.0061 0.0060

Pluto 92400-06-08 06:00 G 35469625.65 35469625.75 35469625.87 0.0061 0.0049

Mars 92400-07-10 05:46 G 35469657.62 35469657.74 35469657.85 0.1584 0.0111

Pluto 92400-09-04 06:58 G 35469713.67 35469713.79 35469713.95 0.0061 0.0039

Pluto 92400-12-01 08:24 G 35469801.70 35469801.85 35469802.02 0.0061 0.0028

Pluto 92401-02-27 09:22 G 35469889.73 35469889.89 35469890.08 0.0061 0.0018

Pluto 92401-05-26 10:48 G 35469977.77 35469977.95 35469978.13 0.0062 0.0007

Pluto 92401-08-22 12:00 G 35470065.82 35470066.00 35470066.18 0.0062 0.0004

Pluto 92401-11-18 12:58 G 35470153.87 35470154.04 35470154.22 0.0062 0.0015

Pluto 92402-02-14 13:55 G 35470241.93 35470242.08 35470242.26 0.0062 0.0026

Pluto 92402-05-13 15:07 G 35470330.00 35470330.13 35470330.29 0.0062 0.0036

Mars 92402-06-15 07:12 G 35470362.73 35470362.80 35470362.86 0.1586 0.1314

Pluto 92402-08-09 16:05 G 35470418.07 35470418.17 35470418.31 0.0062 0.0047

Pluto 92402-11-05 17:31 G 35470506.17 35470506.23 35470506.30 0.0062 0.0057

Jupiter 92403-01-23 06:00 G 35470584.58 35470584.75 35470584.92 0.0513 0.0178

Earth 92404-11-11 02:53 G 35471242.51 35471242.62 35471242.73 0.2633 0.0818

Moon 92404-11-11 03:22 G 35471242.54 35471242.64 35471242.75 0.2636 0.0777 *

Mars 92405-03-28 03:22 G 35471379.49 35471379.64 35471379.78 0.1953 0.0903

Saturn 92407-08-22 12:58 G 35472257.00 35472257.04 35472257.10 0.0293 0.0282

Saturn 92407-11-19 14:53 G 35472345.94 35472346.12 35472346.31 0.0294 0.0060

Saturn 92408-02-16 16:34 G 35472435.03 35472435.19 35472435.34 0.0295 0.0162

Moon 92408-05-17 09:36 G 35472525.77 35472525.90 35472526.03 0.2700 0.1353

Earth 92408-05-17 11:17 G 35472525.85 35472525.97 35472526.09 0.2701 0.1598 *

Jupiter 92408-09-15 20:38 G 35472647.24 35472647.36 35472647.49 0.0514 0.0029

Mars 92409-11-30 17:31 G 35473088.11 35473088.23 35473088.34 0.1584 0.0444

Mars 92411-11-05 18:43 G 35473793.19 35473793.28 35473793.37 0.1585 0.0964

Mars 92414-08-17 19:26 G 35474809.14 35474809.31 35474809.47 0.1954 0.0392

Jupiter 92414-11-11 02:10 G 35474894.41 35474894.59 35474894.78 0.0512 0.0074

Venus 92415-05-04 05:17 G 35475068.65 35475068.72 35475068.79 0.3752 0.3312

Earth 92417-11-13 20:38 G 35475993.25 35475993.36 35475993.46 0.2632 0.0580

Moon 92417-11-13 21:22 G 35475993.28 35475993.39 35475993.49 0.2630 0.0694 *

Venus 92418-02-05 06:29 G 35476076.68 35476076.77 35476076.86 0.3623 0.1765

Mars 92419-04-23 05:17 G 35476518.61 35476518.72 35476518.82 0.1584 0.0786

Jupiter 92420-07-05 01:41 G 35476957.45 35476957.57 35476957.69 0.0514 0.0183

Jupiter 92420-10-02 06:00 G 35477046.72 35477046.75 35477046.79 0.0512 0.0488

Saturn 92420-12-28 22:05 G 35477134.33 35477134.42 35477134.51 0.0269 0.0192

Saturn 92421-03-27 08:10 G 35477222.72 35477222.84 35477222.97 0.0268 0.0077

Mars 92421-03-28 06:14 G 35477223.65 35477223.76 35477223.87 0.1584 0.0615

Saturn 92421-06-23 18:14 G 35477311.13 35477311.26 35477311.40 0.0267 0.0040

Saturn 92421-09-20 04:19 G 35477399.58 35477399.68 35477399.79 0.0267 0.0153

Venus 92423-08-21 21:22 G 35478100.29 35478100.39 35478100.49 0.3622 0.0219

Mars 92424-01-07 10:34 G 35478238.87 35478238.94 35478239.02 0.1953 0.1734

Jupiter 92426-08-29 22:05 G 35479204.29 35479204.42 35479204.57 0.0511 0.0330

Mars 92428-09-12 17:02 G 35479949.13 35479949.21 35479949.29 0.1585 0.1117

Venus 92429-03-06 12:14 G 35480123.93 35480124.01 35480124.09 0.3621 0.2213

Mars 92430-08-18 17:46 G 35480654.13 35480654.24 35480654.36 0.1584 0.0274

Earth 92430-11-16 14:10 G 35480744.02 35480744.09 35480744.17 0.2631 0.1978

Moon 92430-11-16 14:38 G 35480744.04 35480744.11 35480744.18 0.2625 0.2046 *

Neptune 92431-05-08 02:38 G 35480916.60 35480916.61 35480916.65 0.0088 0.0086

Neptune 92431-08-04 03:50 G 35481004.62 35481004.66 35481004.73 0.0088 0.0079

Neptune 92431-10-31 05:17 G 35481092.65 35481092.72 35481092.80 0.0088 0.0072

Uranus 92431-12-17 12:58 G 35481139.99 35481140.04 35481140.11 0.0135 0.0128

Neptune 92432-01-27 06:29 G 35481180.69 35481180.77 35481180.87 0.0088 0.0065

Uranus 92432-03-14 20:24 G 35481228.23 35481228.35 35481228.48 0.0135 0.0101

Jupiter 92432-04-23 06:43 G 35481267.69 35481267.78 35481267.87 0.0515 0.0342

Neptune 92432-04-24 07:55 G 35481268.74 35481268.83 35481268.94 0.0088 0.0058

Uranus 92432-06-11 03:36 G 35481316.50 35481316.65 35481316.82 0.0135 0.0074

Neptune 92432-07-21 09:07 G 35481356.78 35481356.88 35481357.00 0.0088 0.0051

Jupiter 92432-07-21 11:02 G 35481356.86 35481356.96 35481357.06 0.0513 0.0329 *

Uranus 92432-09-07 11:02 G 35481404.78 35481404.96 35481405.14 0.0135 0.0047

Neptune 92432-10-17 10:34 G 35481444.83 35481444.94 35481445.06 0.0088 0.0043

Uranus 92432-12-04 18:14 G 35481493.07 35481493.26 35481493.45 0.0135 0.0020

Neptune 92433-01-13 11:46 G 35481532.88 35481532.99 35481533.12 0.0088 0.0037

Uranus 92433-03-03 01:26 G 35481581.37 35481581.56 35481581.75 0.0135 0.0006

Neptune 92433-04-11 13:12 G 35481620.93 35481621.05 35481621.18 0.0088 0.0029

Uranus 92433-05-30 08:38 G 35481669.67 35481669.86 35481670.04 0.0134 0.0033

Neptune 92433-07-08 14:24 G 35481708.98 35481709.10 35481709.24 0.0088 0.0023

Uranus 92433-08-26 15:36 G 35481757.98 35481758.15 35481758.33 0.0134 0.0059

Neptune 92433-10-04 15:50 G 35481797.03 35481797.16 35481797.29 0.0088 0.0015

Uranus 92433-11-22 22:34 G 35481846.30 35481846.44 35481846.60 0.0134 0.0086

Neptune 92433-12-31 17:02 G 35481885.08 35481885.21 35481885.35 0.0088 0.0009

Uranus 92434-02-19 05:31 G 35481934.64 35481934.73 35481934.85 0.0134 0.0112

Neptune 92434-03-29 18:29 G 35481973.13 35481973.27 35481973.40 0.0088 0.0001

Neptune 92434-06-25 19:41 G 35482061.19 35482061.32 35482061.46 0.0088 0.0007

Neptune 92434-09-21 21:07 G 35482149.25 35482149.38 35482149.51 0.0088 0.0013

Neptune 92434-12-18 22:19 G 35482237.30 35482237.43 35482237.56 0.0088 0.0020

Neptune 92435-03-16 23:31 G 35482325.36 35482325.48 35482325.61 0.0088 0.0028

Neptune 92435-06-13 00:58 G 35482413.42 35482413.54 35482413.67 0.0088 0.0035

Neptune 92435-09-09 02:10 G 35482501.48 35482501.59 35482501.71 0.0088 0.0042

Neptune 92435-12-06 03:36 G 35482589.54 35482589.65 35482589.76 0.0088 0.0049

Neptune 92436-03-03 04:34 G 35482677.60 35482677.69 35482677.81 0.0088 0.0057

Neptune 92436-05-30 06:00 G 35482765.67 35482765.75 35482765.85 0.0088 0.0064

Neptune 92436-08-26 07:26 G 35482853.74 35482853.81 35482853.90 0.0088 0.0071

Neptune 92436-11-22 08:38 G 35482941.81 35482941.86 35482941.93 0.0088 0.0078

Neptune 92437-02-18 10:05 G 35483029.90 35483029.92 35483029.96 0.0088 0.0085

Saturn 92437-04-07 09:50 G 35483077.76 35483077.91 35483078.08 0.0293 0.0147

Saturn 92437-07-05 11:31 G 35483166.80 35483166.98 35483167.16 0.0295 0.0075

Saturn 92437-10-02 12:58 G 35483256.04 35483256.04 35483256.05 0.0296 0.0296

Earth 92437-11-09 14:10 G 35483294.01 35483294.09 35483294.16 0.2633 0.1917

Moon 92437-11-09 14:24 G 35483294.02 35483294.10 35483294.17 0.2640 0.1948 *

Mars 92438-02-03 04:48 G 35483379.66 35483379.70 35483379.75 0.1586 0.1452

Jupiter 92438-09-16 08:10 G 35483604.75 35483604.84 35483604.93 0.0513 0.0440

Mars 92440-01-09 05:46 G 35484084.62 35484084.74 35484084.85 0.1584 0.0084

Moon 92441-05-15 10:05 G 35484576.78 35484576.92 35484577.07 0.2695 0.0974

Earth 92441-05-15 11:17 G 35484576.82 35484576.97 35484577.11 0.2700 0.0896 *

Mars 92441-12-14 06:58 G 35484789.73 35484789.79 35484789.86 0.1586 0.1345

Jupiter 92444-05-09 15:07 G 35485667.01 35485667.13 35485667.25 0.0513 0.0154

Mars 92444-09-26 04:05 G 35485806.53 35485806.67 35485806.82 0.1954 0.0985

Mars 92449-05-31 17:17 G 35487515.11 35487515.22 35487515.34 0.1584 0.0417

Saturn 92450-05-18 00:29 G 35487866.46 35487866.52 35487866.59 0.0270 0.0232

Jupiter 92450-07-05 05:31 G 35487914.56 35487914.73 35487914.89 0.0513 0.0205

Saturn 92450-08-14 10:34 G 35487954.83 35487954.94 35487955.06 0.0269 0.0116

Saturn 92450-11-10 20:38 G 35488043.23 35488043.36 35488043.50 0.0268 0.0008

Earth 92450-11-12 07:41 G 35488044.71 35488044.82 35488044.93 0.2632 0.0540

Moon 92450-11-12 08:24 G 35488044.74 35488044.85 35488044.96 0.2635 0.0397 *

Saturn 92451-02-07 06:43 G 35488131.67 35488131.78 35488131.90 0.0267 0.0116

Saturn 92451-05-06 16:48 G 35488220.14 35488220.20 35488220.27 0.0267 0.0230

Mars 92451-05-06 18:43 G 35488220.19 35488220.28 35488220.37 0.1585 0.0996 *

Mars 92454-02-15 20:10 G 35489236.18 35489236.34 35489236.51 0.1954 0.0313

Moon 92454-05-18 16:05 G 35489328.07 35489328.17 35489328.28 0.2700 0.1947

Earth 92454-05-18 17:46 G 35489328.15 35489328.24 35489328.33 0.2701 0.2173 *

Jupiter 92456-02-26 19:55 G 35489977.20 35489977.33 35489977.46 0.0513 0.0014

Mars 92458-10-22 05:17 G 35490945.61 35490945.72 35490945.82 0.1584 0.0750

Mars 92460-09-26 06:14 G 35491650.65 35491650.76 35491650.87 0.1584 0.0647

Jupiter 92462-04-23 01:55 G 35492224.40 35492224.58 35492224.77 0.0512 0.0042

Mars 92463-07-08 11:46 G 35492665.90 35492665.99 35492666.07 0.1953 0.1644

Earth 92463-11-15 01:26 G 35492795.45 35492795.56 35492795.66 0.2632 0.0860

Moon 92463-11-15 02:10 G 35492795.48 35492795.59 35492795.69 0.2630 0.0940 *

Venus 92466-05-24 18:58 G 35493717.19 35493717.29 35493717.39 0.3750 0.3008

Saturn 92466-08-25 06:00 G 35493809.63 35493809.75 35493809.87 0.0293 0.0229

Saturn 92466-11-22 07:41 G 35493898.63 35493898.82 35493899.01 0.0294 0.0007

Saturn 92467-02-19 08:53 G 35493987.76 35493987.87 35493988.01 0.0296 0.0215

Jupiter 92467-12-16 00:29 G 35494287.40 35494287.52 35494287.64 0.0514 0.0176

Mars 92468-03-13 17:02 G 35494376.13 35494376.21 35494376.29 0.1585 0.1086

Jupiter 92468-03-14 04:48 G 35494376.67 35494376.70 35494376.73 0.0512 0.0495

Venus 92469-02-26 12:58 G 35494725.99 35494726.04 35494726.09 0.3624 0.3022

Mars 92470-02-16 18:00 G 35495081.13 35495081.25 35495081.36 0.1584 0.0305

Jupiter 92474-02-08 22:19 G 35496534.28 35496534.43 35496534.58 0.0512 0.0291

Uranus 92474-06-16 21:07 G 35496662.36 35496662.38 35496662.43 0.0143 0.0138

Venus 92474-09-12 03:50 G 35496749.56 35496749.66 35496749.75 0.3622 0.1048

Uranus 92474-09-13 00:43 G 35496750.47 35496750.53 35496750.62 0.0143 0.0116

Uranus 92474-12-10 04:19 G 35496838.59 35496838.68 35496838.79 0.0144 0.0094

Uranus 92475-03-08 07:55 G 35496926.72 35496926.83 35496926.95 0.0144 0.0072

Uranus 92475-06-04 11:31 G 35497014.86 35497014.98 35497015.11 0.0144 0.0050

Uranus 92475-08-31 15:07 G 35497103.01 35497103.13 35497103.27 0.0144 0.0028

Uranus 92475-11-27 18:58 G 35497191.15 35497191.29 35497191.42 0.0144 0.0006

Uranus 92476-02-23 22:34 G 35497279.31 35497279.44 35497279.57 0.0144 0.0018

Uranus 92476-05-22 02:10 G 35497367.46 35497367.59 35497367.72 0.0144 0.0040

Uranus 92476-08-18 05:46 G 35497455.62 35497455.74 35497455.86 0.0144 0.0063

Uranus 92476-11-14 09:22 G 35497543.79 35497543.89 35497544.00 0.0144 0.0085

Earth 92476-11-16 19:12 G 35497546.24 35497546.30 35497546.35 0.2631 0.2266

Moon 92476-11-16 19:26 G 35497546.25 35497546.31 35497546.36 0.2624 0.2294 *

Uranus 92477-02-10 12:58 G 35497631.96 35497632.04 35497632.13 0.0144 0.0108

Uranus 92477-05-09 16:34 G 35497720.15 35497720.19 35497720.25 0.0144 0.0131

Mars 92477-08-04 04:48 G 35497806.65 35497806.70 35497806.75 0.1585 0.1422

Mars 92479-07-10 05:31 G 35498511.62 35498511.73 35498511.85 0.1584 0.0066

Jupiter 92479-10-04 05:31 G 35498597.63 35498597.73 35498597.83 0.0515 0.0334

Jupiter 92480-01-01 09:50 G 35498686.82 35498686.91 35498687.01 0.0513 0.0337

Saturn 92480-01-01 12:43 G 35498686.93 35498687.03 35498687.14 0.0269 0.0156 *

Venus 92480-03-27 18:29 G 35498773.18 35498773.27 35498773.37 0.3621 0.0958

Saturn 92480-03-29 22:48 G 35498775.32 35498775.45 35498775.58 0.0268 0.0040

Saturn 92480-06-26 08:53 G 35498863.74 35498863.87 35498864.00 0.0267 0.0075

Saturn 92480-09-22 18:58 G 35498952.20 35498952.29 35498952.38 0.0266 0.0189

Mars 92481-06-14 07:12 G 35499216.74 35499216.80 35499216.85 0.1586 0.1381

Earth 92483-11-10 18:58 G 35500096.20 35500096.29 35500096.37 0.2633 0.1643

Moon 92483-11-10 19:12 G 35500096.21 35500096.30 35500096.39 0.2639 0.1541 *

Mars 92484-03-27 05:02 G 35500233.57 35500233.71 35500233.84 0.1953 0.1060

Venus 92485-10-11 09:22 G 35500796.84 35500796.89 35500796.95 0.3621 0.2947

Jupiter 92486-02-26 07:12 G 35500934.73 35500934.80 35500934.88 0.0513 0.0462

Moon 92487-05-16 16:34 G 35501379.03 35501379.19 35501379.34 0.2697 0.0591

Earth 92487-05-16 17:46 G 35501379.09 35501379.24 35501379.39 0.2700 0.0317 *

Mars 92488-11-29 17:17 G 35501942.11 35501942.22 35501942.34 0.1584 0.0385

Mars 92490-11-04 18:43 G 35502647.19 35502647.28 35502647.37 0.1585 0.1027

Jupiter 92491-07-23 10:34 G 35502907.90 35502907.94 35502907.97 0.0515 0.0491

Jupiter 92491-10-20 14:53 G 35502997.00 35502997.12 35502997.24 0.0513 0.0180

Pluto 92493-01-06 20:38 G 35503441.30 35503441.36 35503441.43 0.0083 0.0072

Pluto 92493-04-04 21:50 G 35503529.31 35503529.41 35503529.53 0.0083 0.0053

Pluto 92493-07-01 23:17 G 35503617.35 35503617.47 35503617.60 0.0083 0.0032

Mars 92493-08-16 20:53 G 35503663.20 35503663.37 35503663.53 0.1954 0.0244

Pluto 92493-09-28 00:43 G 35503705.39 35503705.53 35503705.67 0.0083 0.0012

Pluto 92493-12-25 01:55 G 35503793.44 35503793.58 35503793.72 0.0083 0.0008

Pluto 92494-03-23 03:22 G 35503881.51 35503881.64 35503881.77 0.0083 0.0028

Pluto 92494-06-19 04:34 G 35503969.58 35503969.69 35503969.81 0.0082 0.0048

Pluto 92494-09-15 05:46 G 35504057.67 35504057.74 35504057.83 0.0082 0.0068

Saturn 92496-04-10 02:10 G 35504630.42 35504630.59 35504630.77 0.0294 0.0100

Saturn 92496-07-08 03:50 G 35504719.49 35504719.66 35504719.83 0.0295 0.0122

Earth 92496-11-12 12:29 G 35504846.91 35504847.02 35504847.13 0.2632 0.0259

Moon 92496-11-12 13:12 G 35504846.94 35504847.05 35504847.16 0.2633 0.0221 *

Jupiter 92497-12-15 04:19 G 35505244.52 35505244.68 35505244.85 0.0513 0.0225

Mars 92498-04-22 05:02 G 35505372.61 35505372.71 35505372.82 0.1584 0.0722

Mars 92500-03-28 06:14 G 35506077.65 35506077.76 35506077.87 0.1584 0.0679

Moon 92500-05-19 22:48 G 35506130.40 35506130.45 35506130.50 0.2700 0.2526

Mars 92503-01-07 12:43 G 35507092.93 35507093.03 35507093.13 0.1954 0.1559

Jupiter 92503-08-09 18:58 G 35507307.17 35507307.29 35507307.42 0.0513 0.0019

Mars 92507-09-13 17:02 G 35508803.12 35508803.21 35508803.30 0.1585 0.1056

Saturn 92509-05-21 14:53 G 35509419.03 35509419.12 35509419.21 0.0270 0.0198

Saturn 92509-08-18 00:58 G 35509507.42 35509507.54 35509507.67 0.0269 0.0081

Mars 92509-08-18 18:00 G 35509508.13 35509508.25 35509508.36 0.1584 0.0339

Jupiter 92509-10-04 01:26 G 35509554.38 35509554.56 35509554.75 0.0513 0.0014

Saturn 92509-11-14 11:02 G 35509595.83 35509595.96 35509596.09 0.0268 0.0035

Earth 92509-11-16 06:14 G 35509597.66 35509597.76 35509597.86 0.2631 0.1138

Moon 92509-11-16 06:43 G 35509597.68 35509597.78 35509597.88 0.2629 0.1265 *

Saturn 92510-02-10 21:07 G 35509684.28 35509684.38 35509684.49 0.0267 0.0150

Saturn 92510-05-10 07:12 G 35509772.79 35509772.80 35509772.82 0.0267 0.0265

Neptune 92515-01-22 07:55 G 35511490.79 35511490.83 35511490.92 0.0090 0.0085

Neptune 92515-04-20 11:46 G 35511578.90 35511578.99 35511579.12 0.0090 0.0074

Jupiter 92515-05-28 23:46 G 35511617.37 35511617.49 35511617.61 0.0514 0.0157

Neptune 92515-07-17 15:22 G 35511667.02 35511667.14 35511667.30 0.0090 0.0063

Jupiter 92515-08-26 04:05 G 35511706.67 35511706.67 35511706.67 0.0512 0.0511

Neptune 92515-10-13 18:58 G 35511755.15 35511755.29 35511755.47 0.0090 0.0052

Uranus 92516-01-07 21:07 G 35511841.30 35511841.38 35511841.49 0.0135 0.0117

Neptune 92516-01-09 22:48 G 35511843.29 35511843.45 35511843.63 0.0090 0.0041

Uranus 92516-04-05 04:34 G 35511929.56 35511929.69 35511929.84 0.0135 0.0090

Neptune 92516-04-07 02:24 G 35511931.43 35511931.60 35511931.79 0.0090 0.0030

Uranus 92516-07-02 12:00 G 35512017.83 35512018.00 35512018.17 0.0135 0.0063

Neptune 92516-07-04 06:14 G 35512019.57 35512019.76 35512019.95 0.0090 0.0019

Uranus 92516-09-28 19:12 G 35512106.12 35512106.30 35512106.49 0.0135 0.0036

Neptune 92516-09-30 09:50 G 35512107.72 35512107.91 35512108.10 0.0090 0.0008

Uranus 92516-12-26 02:24 G 35512194.41 35512194.60 35512194.80 0.0135 0.0010

Neptune 92516-12-27 13:26 G 35512195.87 35512196.06 35512196.25 0.0090 0.0003

Mars 92517-02-03 04:48 G 35512233.65 35512233.70 35512233.76 0.1585 0.1389

Uranus 92517-03-24 09:36 G 35512282.71 35512282.90 35512283.09 0.0135 0.0018

Neptune 92517-03-25 17:02 G 35512284.02 35512284.21 35512284.40 0.0090 0.0014

Uranus 92517-06-20 16:48 G 35512371.02 35512371.20 35512371.38 0.0134 0.0044

Neptune 92517-06-21 20:38 G 35512372.18 35512372.36 35512372.54 0.0090 0.0025

Uranus 92517-09-16 23:46 G 35512459.34 35512459.49 35512459.66 0.0134 0.0070

Neptune 92517-09-18 00:00 G 35512460.33 35512460.50 35512460.68 0.0090 0.0036

Uranus 92517-12-14 06:43 G 35512547.66 35512547.78 35512547.93 0.0134 0.0097

Neptune 92517-12-15 03:22 G 35512548.49 35512548.64 35512548.82 0.0090 0.0047

Uranus 92518-03-12 13:55 G 35512636.01 35512636.08 35512636.16 0.0134 0.0122

Neptune 92518-03-13 06:58 G 35512636.66 35512636.79 35512636.95 0.0090 0.0058

Neptune 92518-06-09 10:48 G 35512724.83 35512724.95 35512725.08 0.0090 0.0068

Neptune 92518-09-05 14:10 G 35512813.01 35512813.09 35512813.19 0.0090 0.0079

Neptune 92518-12-02 17:46 G 35512901.24 35512901.24 35512901.26 0.0090 0.0089

Mars 92519-01-09 05:31 G 35512938.62 35512938.73 35512938.85 0.1584 0.0062

Mars 92520-12-14 06:58 G 35513643.74 35513643.79 35513643.85 0.1586 0.1414

Jupiter 92521-07-22 22:05 G 35513864.26 35513864.42 35513864.58 0.0512 0.0258

Earth 92522-11-19 00:00 G 35514348.47 35514348.50 35514348.52 0.2631 0.2554

Moon 92522-11-19 00:14 G 35514348.48 35514348.51 35514348.53 0.2624 0.2554 *

Venus 92522-12-30 22:05 G 35514390.26 35514390.42 35514390.59 0.3751 0.0098

Mars 92523-09-27 05:46 G 35514660.61 35514660.74 35514660.88 0.1953 0.1145

Saturn 92525-08-28 22:05 G 35515362.28 35515362.42 35515362.57 0.0293 0.0182

Venus 92525-10-04 10:19 G 35515398.85 35515398.93 35515399.00 0.3623 0.2303

Saturn 92525-11-25 23:46 G 35515451.30 35515451.49 35515451.67 0.0294 0.0040

Saturn 92526-02-23 00:58 G 35515540.46 35515540.54 35515540.63 0.0295 0.0261

Jupiter 92527-03-17 04:19 G 35515927.59 35515927.68 35515927.78 0.0514 0.0323

Jupiter 92527-06-14 08:38 G 35516016.77 35516016.86 35516016.96 0.0512 0.0348

Mars 92528-05-31 17:17 G 35516369.11 35516369.22 35516369.34 0.1584 0.0352

Earth 92529-11-11 23:46 G 35516898.39 35516898.49 35516898.58 0.2633 0.1368

Moon 92529-11-12 00:00 G 35516898.41 35516898.50 35516898.60 0.2638 0.1364 *

Mars 92530-05-06 18:43 G 35517074.19 35517074.28 35517074.37 0.1585 0.1062

Venus 92531-04-20 00:58 G 35517422.44 35517422.54 35517422.64 0.3622 0.0327

Mars 92533-02-15 21:50 G 35518090.25 35518090.41 35518090.58 0.1954 0.0154

Jupiter 92533-05-10 18:29 G 35518174.25 35518174.27 35518174.29 0.0511 0.0506

Moon 92533-05-17 22:48 G 35518181.30 35518181.45 35518181.61 0.2697 0.0172

Earth 92533-05-18 00:29 G 35518181.36 35518181.52 35518181.67 0.2701 0.0267 *

Jupiter 92533-08-09 07:26 G 35518264.78 35518264.81 35518264.85 0.0513 0.0502

Venus 92536-11-02 15:50 G 35519446.07 35519446.16 35519446.25 0.3621 0.1672

Mars 92537-10-22 05:02 G 35519799.61 35519799.71 35519799.82 0.1584 0.0692

Saturn 92538-10-08 16:48 G 35520151.15 35520151.20 35520151.26 0.0270 0.0239

Jupiter 92539-01-03 09:22 G 35520237.85 35520237.89 35520237.93 0.0515 0.0481

Saturn 92539-01-05 03:07 G 35520239.51 35520239.63 35520239.74 0.0269 0.0123

Jupiter 92539-04-02 13:41 G 35520326.95 35520327.07 35520327.19 0.0513 0.0189

Saturn 92539-04-03 13:12 G 35520327.92 35520328.05 35520328.18 0.0268 0.0009

Saturn 92539-06-30 23:17 G 35520416.35 35520416.47 35520416.59 0.0267 0.0109

Mars 92539-09-27 06:14 G 35520504.65 35520504.76 35520504.87 0.1584 0.0712

Saturn 92539-09-27 09:22 G 35520504.82 35520504.89 35520504.96 0.0266 0.0224 *

Mars 92542-07-08 13:26 G 35521519.95 35521520.06 35521520.16 0.1953 0.1486

Earth 92542-11-14 17:17 G 35521649.11 35521649.22 35521649.33 0.2632 0.0017

Moon 92542-11-14 18:00 G 35521649.14 35521649.25 35521649.36 0.2633 0.0193 *

Jupiter 92545-05-28 03:36 G 35522574.49 35522574.65 35522574.81 0.0513 0.0249

Mars 92547-03-14 17:02 G 35523230.12 35523230.21 35523230.30 0.1585 0.1026

Mars 92549-02-16 17:46 G 35523935.13 35523935.24 35523935.36 0.1584 0.0365

Jupiter 92551-01-19 18:43 G 35524637.15 35524637.28 35524637.40 0.0514 0.0034

Saturn 92555-01-15 16:34 G 35526094.13 35526094.19 35526094.27 0.0292 0.0272

Saturn 92555-04-14 18:29 G 35526183.09 35526183.27 35526183.45 0.0294 0.0051

Saturn 92555-07-12 19:55 G 35526272.18 35526272.33 35526272.48 0.0295 0.0170

Earth 92555-11-17 11:02 G 35526399.86 35526399.96 35526400.05 0.2631 0.1423

Moon 92555-11-17 11:31 G 35526399.89 35526399.98 35526400.07 0.2627 0.1440 *

Mars 92556-08-04 04:48 G 35526660.64 35526660.70 35526660.76 0.1585 0.1360

Jupiter 92557-03-16 00:43 G 35526884.34 35526884.53 35526884.71 0.0512 0.0010

Uranus 92558-07-08 04:19 G 35527363.64 35527363.68 35527363.73 0.0143 0.0133

Mars 92558-07-10 05:31 G 35527365.62 35527365.73 35527365.85 0.1584 0.0052

Uranus 92558-10-04 07:55 G 35527451.75 35527451.83 35527451.91 0.0143 0.0112

Uranus 92558-12-31 11:31 G 35527539.87 35527539.98 35527540.08 0.0143 0.0090

Uranus 92559-03-29 14:53 G 35527628.01 35527628.12 35527628.24 0.0144 0.0068

Uranus 92559-06-25 18:29 G 35527716.15 35527716.27 35527716.40 0.0144 0.0046

Uranus 92559-09-21 22:05 G 35527804.29 35527804.42 35527804.55 0.0144 0.0024

Uranus 92559-12-19 01:41 G 35527892.44 35527892.57 35527892.71 0.0144 0.0004

Uranus 92560-03-16 05:17 G 35527980.59 35527980.72 35527980.85 0.0144 0.0021

Uranus 92560-06-12 08:53 G 35528068.75 35528068.87 35528069.00 0.0144 0.0044

Mars 92560-06-14 06:58 G 35528070.75 35528070.79 35528070.84 0.1586 0.1444

Uranus 92560-09-08 12:43 G 35528156.91 35528157.03 35528157.14 0.0144 0.0066

Uranus 92560-12-05 16:05 G 35528245.08 35528245.17 35528245.28 0.0144 0.0089

Uranus 92561-03-03 19:41 G 35528333.25 35528333.32 35528333.42 0.0144 0.0112

Uranus 92561-05-30 23:31 G 35528421.44 35528421.48 35528421.53 0.0144 0.0134

Jupiter 92562-11-07 23:02 G 35528947.34 35528947.46 35528947.58 0.0513 0.0138

Moon 92562-11-10 10:48 G 35528949.92 35528949.95 35528949.99 0.2641 0.2484

Earth 92562-11-10 10:48 G 35528949.92 35528949.95 35528949.99 0.2634 0.2461 *

Mars 92563-03-28 06:29 G 35529087.65 35529087.77 35529087.90 0.1954 0.1221

Moon 92566-05-15 23:17 G 35530232.39 35530232.47 35530232.55 0.2694 0.2293

Earth 92566-05-16 00:00 G 35530232.42 35530232.50 35530232.58 0.2699 0.2286 *

Mars 92567-11-30 17:17 G 35530796.11 35530796.22 35530796.34 0.1584 0.0321

Saturn 92568-05-24 05:02 G 35530971.61 35530971.71 35530971.81 0.0270 0.0166

Saturn 92568-08-20 15:07 G 35531060.01 35531060.13 35531060.26 0.0269 0.0050

Saturn 92568-11-17 01:26 G 35531148.43 35531148.56 35531148.69 0.0268 0.0068

Jupiter 92569-01-01 21:22 G 35531194.23 35531194.39 35531194.56 0.0512 0.0232

Saturn 92569-02-13 11:31 G 35531236.88 35531236.98 35531237.08 0.0267 0.0183

Mars 92569-11-04 18:43 G 35531501.19 35531501.28 35531501.36 0.1585 0.1095

Mars 92572-08-16 22:48 G 35532517.29 35532517.45 35532517.62 0.1954 0.0084

Jupiter 92574-08-27 03:50 G 35533257.56 35533257.66 35533257.76 0.0514 0.0301

Jupiter 92574-11-24 07:55 G 35533346.75 35533346.83 35533346.92 0.0512 0.0367

Earth 92575-11-13 04:34 G 35533700.59 35533700.69 35533700.79 0.2633 0.1090

Moon 92575-11-13 05:02 G 35533700.61 35533700.71 35533700.81 0.2637 0.0978 *

Venus 92576-10-25 16:34 G 35534048.18 35534048.19 35534048.21 0.3624 0.3551

Mars 92577-04-22 05:02 G 35534226.61 35534226.71 35534226.82 0.1584 0.0659

Mars 92579-03-28 06:14 G 35534931.65 35534931.76 35534931.86 0.1584 0.0744

Moon 92579-05-19 05:31 G 35534983.58 35534983.73 35534983.88 0.2697 0.0514

Earth 92579-05-19 06:58 G 35534983.64 35534983.79 35534983.94 0.2701 0.0835 *

Venus 92579-08-07 01:26 G 35535063.46 35535063.56 35535063.66 0.3752 0.2877

Jupiter 92580-10-20 18:00 G 35535504.19 35535504.25 35535504.32 0.0512 0.0476

Mars 92582-01-06 14:10 G 35535946.98 35535947.09 35535947.21 0.1954 0.1404

Venus 92582-05-11 07:26 G 35536071.72 35536071.81 35536071.90 0.3623 0.1572

Saturn 92584-08-31 14:24 G 35536914.94 35536915.10 35536915.27 0.0293 0.0132

Saturn 92584-11-28 16:05 G 35537003.99 35537004.17 35537004.34 0.0294 0.0089

Jupiter 92586-06-15 08:24 G 35537567.80 35537567.85 35537567.90 0.0515 0.0467

Jupiter 92586-09-12 12:43 G 35537656.91 35537657.03 35537657.15 0.0513 0.0201

Mars 92586-09-12 17:02 G 35537657.12 35537657.21 35537657.30 0.1585 0.0996 *

Venus 92587-11-24 22:19 G 35538095.33 35538095.43 35538095.53 0.3622 0.0411

Mars 92588-08-17 18:00 G 35538362.13 35538362.25 35538362.36 0.1584 0.0404

Earth 92588-11-14 22:05 G 35538451.31 35538451.42 35538451.53 0.2632 0.0298

Moon 92588-11-14 22:48 G 35538451.34 35538451.45 35538451.56 0.2633 0.0340 *

Jupiter 92592-11-07 03:36 G 35539904.50 35539904.65 35539904.81 0.0513 0.0288

Venus 92593-06-09 13:12 G 35540118.97 35540119.05 35540119.12 0.3621 0.2402

Neptune 92596-02-03 02:10 G 35541087.55 35541087.59 35541087.62 0.0088 0.0084

Mars 92596-02-03 04:48 G 35541087.64 35541087.70 35541087.76 0.1585 0.1333

Neptune 92596-05-01 03:22 G 35541175.58 35541175.64 35541175.70 0.0088 0.0077

Neptune 92596-07-28 04:19 G 35541263.62 35541263.68 35541263.77 0.0088 0.0071

Neptune 92596-10-24 06:00 G 35541351.66 35541351.75 35541351.84 0.0088 0.0063

Neptune 92597-01-20 07:12 G 35541439.70 35541439.80 35541439.90 0.0088 0.0056

Neptune 92597-04-18 08:10 G 35541527.75 35541527.84 35541527.96 0.0088 0.0050

Neptune 92597-07-15 09:50 G 35541615.79 35541615.91 35541616.03 0.0088 0.0042

Saturn 92597-10-11 06:58 G 35541703.71 35541703.79 35541703.88 0.0270 0.0208

Neptune 92597-10-11 11:02 G 35541703.84 35541703.96 35541704.09 0.0088 0.0035 *

Neptune 92598-01-07 12:29 G 35541791.89 35541792.02 35541792.14 0.0088 0.0028

Saturn 92598-01-07 17:17 G 35541792.10 35541792.22 35541792.34 0.0269 0.0090 *

Mars 92598-01-08 05:31 G 35541792.61 35541792.73 35541792.85 0.1584 0.0057

Neptune 92598-04-05 13:41 G 35541879.94 35541880.07 35541880.20 0.0088 0.0021

Saturn 92598-04-06 03:22 G 35541880.51 35541880.64 35541880.77 0.0268 0.0027

Jupiter 92598-07-01 17:31 G 35541967.10 35541967.23 35541967.36 0.0513 0.0042

Neptune 92598-07-02 15:07 G 35541967.99 35541968.13 35541968.26 0.0088 0.0014

Saturn 92598-07-03 13:26 G 35541968.95 35541969.06 35541969.18 0.0267 0.0143

Neptune 92598-09-28 16:19 G 35542056.05 35542056.18 35542056.31 0.0088 0.0007

Saturn 92598-09-29 23:31 G 35542057.46 35542057.48 35542057.52 0.0266 0.0258

Neptune 92598-12-25 17:31 G 35542144.10 35542144.23 35542144.37 0.0088 0.0003

Neptune 92599-03-23 18:58 G 35542232.16 35542232.29 35542232.42 0.0088 0.0008

Neptune 92599-06-19 20:10 G 35542320.21 35542320.34 35542320.48 0.0088 0.0015

Neptune 92599-09-15 21:36 G 35542408.27 35542408.40 35542408.53 0.0088 0.0022

Uranus 92599-10-31 21:50 G 35542454.40 35542454.41 35542454.45 0.0135 0.0134

Neptune 92599-12-12 22:48 G 35542496.33 35542496.45 35542496.58 0.0088 0.0029

Mars 92599-12-14 07:12 G 35542497.76 35542497.80 35542497.84 0.1585 0.1481

Uranus 92600-01-28 05:17 G 35542542.61 35542542.72 35542542.85 0.0135 0.0107

Neptune 92600-03-11 00:00 G 35542584.39 35542584.50 35542584.63 0.0088 0.0036

Uranus 92600-04-26 12:29 G 35542630.88 35542631.02 35542631.19 0.0135 0.0080

Neptune 92600-06-07 01:12 G 35542672.45 35542672.55 35542672.68 0.0088 0.0044

Uranus 92600-07-23 19:55 G 35542719.16 35542719.33 35542719.51 0.0135 0.0053

Neptune 92600-09-03 02:38 G 35542760.51 35542760.61 35542760.73 0.0088 0.0051

Uranus 92600-10-20 03:22 G 35542807.45 35542807.64 35542807.83 0.0135 0.0026

Neptune 92600-11-30 04:05 G 35542848.57 35542848.67 35542848.77 0.0088 0.0058

Uranus 92601-01-16 10:34 G 35542895.75 35542895.94 35542896.13 0.0135 0.0001

Neptune 92601-02-26 05:17 G 35542936.64 35542936.72 35542936.82 0.0088 0.0065

Uranus 92601-04-14 17:46 G 35542984.05 35542984.24 35542984.43 0.0135 0.0028

Neptune 92601-05-25 06:43 G 35543024.71 35543024.78 35543024.86 0.0088 0.0072

Uranus 92601-07-12 00:43 G 35543072.36 35543072.53 35543072.71 0.0135 0.0054

Neptune 92601-08-21 08:10 G 35543112.78 35543112.84 35543112.89 0.0088 0.0079

Uranus 92601-10-08 07:41 G 35543160.68 35543160.82 35543160.99 0.0135 0.0081

Neptune 92601-11-17 09:07 G 35543200.88 35543200.88 35543200.92 0.0088 0.0087

Earth 92601-11-18 15:50 G 35543202.07 35543202.16 35543202.24 0.2631 0.1702

Moon 92601-11-18 16:19 G 35543202.10 35543202.18 35543202.26 0.2626 0.1828 *

Uranus 92602-01-04 14:53 G 35543249.01 35543249.12 35543249.24 0.0134 0.0107

Uranus 92602-04-02 22:05 G 35543337.40 35543337.42 35543337.45 0.0134 0.0133

Mars 92602-09-27 07:26 G 35543514.69 35543514.81 35543514.94 0.1954 0.1304

Jupiter 92604-08-26 23:46 G 35544214.31 35544214.49 35544214.68 0.0512 0.0035

Mars 92607-06-01 17:17 G 35545223.10 35545223.22 35545223.34 0.1584 0.0289

Moon 92608-11-11 15:50 G 35545752.10 35545752.16 35545752.22 0.2640 0.2187

Earth 92608-11-11 15:36 G 35545752.10 35545752.15 35545752.21 0.2634 0.2190 *

Mars 92609-05-06 18:29 G 35545928.19 35545928.27 35545928.36 0.1585 0.1126

Jupiter 92610-04-20 22:34 G 35546277.32 35546277.44 35546277.56 0.0514 0.0116

Mars 92612-02-16 23:17 G 35546944.31 35546944.47 35546944.64 0.1954 0.0018

Moon 92612-05-17 05:46 G 35547034.63 35547034.74 35547034.85 0.2694 0.1894

Earth 92612-05-17 06:43 G 35547034.66 35547034.78 35547034.90 0.2700 0.1697 *

Saturn 92614-01-19 09:22 G 35547646.77 35547646.89 35547647.02 0.0292 0.0220

Saturn 92614-04-18 11:02 G 35547735.77 35547735.96 35547736.15 0.0294 0.0001

Saturn 92614-07-16 12:29 G 35547824.90 35547825.02 35547825.14 0.0295 0.0221

Jupiter 92616-06-14 20:38 G 35548524.20 35548524.36 35548524.53 0.0512 0.0208

Mars 92616-10-22 05:02 G 35548653.60 35548653.71 35548653.82 0.1584 0.0628

Mars 92618-09-27 06:14 G 35549358.66 35549358.76 35549358.86 0.1584 0.0778

Mars 92621-07-08 15:22 G 35550374.02 35550374.14 35550374.27 0.1954 0.1310

Earth 92621-11-14 09:22 G 35550502.78 35550502.89 35550502.99 0.2633 0.0816

Moon 92621-11-14 09:50 G 35550502.81 35550502.91 35550503.02 0.2636 0.0744 *

Jupiter 92622-02-07 03:07 G 35550587.52 35550587.63 35550587.73 0.0514 0.0283

Jupiter 92622-05-07 07:12 G 35550676.72 35550676.80 35550676.89 0.0512 0.0384

Moon 92625-05-20 12:00 G 35551785.87 35551786.00 35551786.14 0.2698 0.1318

Earth 92625-05-20 13:41 G 35551785.94 35551786.07 35551786.20 0.2701 0.1413 *

Mars 92626-03-14 17:02 G 35552084.11 35552084.21 35552084.30 0.1585 0.0966

Saturn 92627-03-01 09:07 G 35552435.83 35552435.88 35552435.93 0.0271 0.0251

Saturn 92627-05-28 19:12 G 35552524.19 35552524.30 35552524.42 0.0270 0.0133

Saturn 92627-08-25 05:31 G 35552612.60 35552612.73 35552612.86 0.0269 0.0016

Saturn 92627-11-21 15:36 G 35552701.03 35552701.15 35552701.27 0.0268 0.0101

Mars 92628-02-17 17:46 G 35552789.13 35552789.24 35552789.36 0.1584 0.0432

Saturn 92628-02-18 01:41 G 35552789.50 35552789.57 35552789.65 0.0268 0.0217

Jupiter 92628-04-02 17:02 G 35552834.13 35552834.21 35552834.30 0.0512 0.0454

Venus 92630-08-28 14:53 G 35553712.06 35553712.12 35553712.17 0.3750 0.3508

Venus 92633-06-02 13:55 G 35554721.02 35554721.08 35554721.14 0.3624 0.2825

Jupiter 92633-11-26 07:41 G 35554897.77 35554897.82 35554897.89 0.0514 0.0447

Jupiter 92634-02-23 12:00 G 35554986.88 35554987.00 35554987.11 0.0512 0.0221

Earth 92634-11-17 02:53 G 35555253.51 35555253.62 35555253.73 0.2632 0.0580

Moon 92634-11-17 03:36 G 35555253.54 35555253.65 35555253.76 0.2631 0.0731 *

Mars 92635-08-05 04:48 G 35555514.63 35555514.70 35555514.76 0.1585 0.1298

Mars 92637-07-10 05:31 G 35556219.61 35556219.73 35556219.85 0.1584 0.0093

Venus 92638-12-17 04:48 G 35556744.60 35556744.70 35556744.79 0.3623 0.0859

Mars 92639-06-15 06:58 G 35556924.76 35556924.79 35556924.83 0.1585 0.1513

Jupiter 92640-04-20 03:07 G 35557234.49 35557234.63 35557234.78 0.0513 0.0315

Mars 92642-03-28 08:10 G 35557941.73 35557941.84 35557941.96 0.1954 0.1379

Uranus 92642-07-29 11:46 G 35558064.94 35558064.99 35558065.05 0.0143 0.0127

Uranus 92642-10-25 15:22 G 35558153.05 35558153.14 35558153.23 0.0143 0.0105

Uranus 92643-01-21 18:43 G 35558241.18 35558241.28 35558241.40 0.0143 0.0084

Uranus 92643-04-19 22:34 G 35558329.32 35558329.44 35558329.56 0.0143 0.0061

Uranus 92643-07-17 02:10 G 35558417.46 35558417.59 35558417.72 0.0143 0.0039

Saturn 92643-09-05 07:41 G 35558467.64 35558467.82 35558468.00 0.0293 0.0076

Uranus 92643-10-13 05:46 G 35558505.61 35558505.74 35558505.87 0.0144 0.0017

Saturn 92643-12-03 09:07 G 35558556.72 35558556.88 35558557.04 0.0294 0.0144

Uranus 92644-01-09 09:22 G 35558593.76 35558593.89 35558594.02 0.0144 0.0006

Uranus 92644-04-06 12:58 G 35558681.91 35558682.04 35558682.17 0.0144 0.0028

Venus 92644-07-01 19:26 G 35558768.22 35558768.31 35558768.41 0.3622 0.1134

Uranus 92644-07-03 16:34 G 35558770.07 35558770.19 35558770.31 0.0144 0.0050

Uranus 92644-09-29 20:10 G 35558858.23 35558858.34 35558858.46 0.0144 0.0073

Uranus 92644-12-26 23:46 G 35558946.40 35558946.49 35558946.59 0.0144 0.0096

Uranus 92645-03-25 03:22 G 35559034.57 35559034.64 35559034.72 0.0144 0.0119

Uranus 92645-06-21 07:12 G 35559122.78 35559122.80 35559122.82 0.0144 0.0141

Jupiter 92645-12-12 16:34 G 35559297.06 35559297.19 35559297.32 0.0513 0.0054

Pluto 92646-02-07 18:43 G 35559354.21 35559354.28 35559354.37 0.0061 0.0055

Pluto 92646-05-06 19:41 G 35559442.21 35559442.32 35559442.47 0.0061 0.0044

Pluto 92646-08-02 21:07 G 35559530.24 35559530.38 35559530.54 0.0061 0.0034

Pluto 92646-10-29 22:05 G 35559618.27 35559618.42 35559618.60 0.0061 0.0024

Mars 92646-11-30 17:17 G 35559650.10 35559650.22 35559650.34 0.1584 0.0256

Pluto 92647-01-25 23:31 G 35559706.30 35559706.48 35559706.66 0.0061 0.0013

Pluto 92647-04-24 00:43 G 35559794.35 35559794.53 35559794.71 0.0062 0.0002

Pluto 92647-07-21 01:41 G 35559882.40 35559882.57 35559882.76 0.0062 0.0009

Pluto 92647-10-17 02:38 G 35559970.45 35559970.61 35559970.80 0.0062 0.0020

Earth 92647-11-19 20:38 G 35560004.29 35560004.36 35560004.43 0.2631 0.1991

Moon 92647-11-19 21:07 G 35560004.31 35560004.38 35560004.45 0.2625 0.1983 *

Pluto 92648-01-13 03:50 G 35560058.51 35560058.66 35560058.83 0.0062 0.0030

Pluto 92648-04-10 04:48 G 35560146.58 35560146.70 35560146.86 0.0062 0.0041

Pluto 92648-07-07 06:14 G 35560234.67 35560234.76 35560234.87 0.0062 0.0051

Pluto 92648-10-03 07:26 G 35560322.81 35560322.81 35560322.83 0.0062 0.0062

Mars 92648-11-04 18:43 G 35560355.20 35560355.28 35560355.36 0.1585 0.1162

Venus 92650-01-15 10:19 G 35560791.88 35560791.93 35560791.98 0.3621 0.3125

Mars 92651-08-18 00:29 G 35561371.36 35561371.52 35561371.69 0.1954 0.0099

Jupiter 92652-02-06 23:31 G 35561544.30 35561544.48 35561544.67 0.0513 0.0068

Earth 92654-11-12 20:24 G 35562554.28 35562554.35 35562554.43 0.2634 0.1918

Moon 92654-11-12 20:38 G 35562554.29 35562554.36 35562554.44 0.2640 0.1865 *

Mars 92656-04-22 05:02 G 35563080.60 35563080.71 35563080.82 0.1584 0.0598

Saturn 92656-10-14 21:22 G 35563256.29 35563256.39 35563256.49 0.0270 0.0173

Saturn 92657-01-11 07:41 G 35563344.69 35563344.82 35563344.95 0.0269 0.0056

Saturn 92657-04-09 17:46 G 35563433.11 35563433.24 35563433.37 0.0268 0.0061

Saturn 92657-07-07 03:50 G 35563521.57 35563521.66 35563521.76 0.0267 0.0177

Jupiter 92657-09-30 21:22 G 35563607.26 35563607.39 35563607.51 0.0514 0.0108

Mars 92658-03-28 06:14 G 35563785.66 35563785.76 35563785.86 0.1584 0.0811

Moon 92658-05-18 12:14 G 35563836.87 35563837.01 35563837.15 0.2695 0.1226

Earth 92658-05-18 13:26 G 35563836.92 35563837.06 35563837.20 0.2700 0.1107 *

Mars 92661-01-06 15:50 G 35564801.04 35564801.16 35564801.29 0.1954 0.1247

Jupiter 92663-11-25 19:41 G 35565854.14 35565854.32 35565854.49 0.0512 0.0189

Mars 92665-09-12 16:48 G 35566511.11 35566511.20 35566511.30 0.1585 0.0935

Mars 92667-08-18 17:46 G 35567216.13 35567216.24 35567216.36 0.1584 0.0461

Earth 92667-11-15 14:10 G 35567304.98 35567305.09 35567305.19 0.2633 0.0544

Moon 92667-11-15 14:38 G 35567305.00 35567305.11 35567305.22 0.2636 0.0439 *

Jupiter 92669-07-20 02:24 G 35567917.49 35567917.60 35567917.70 0.0514 0.0267

Jupiter 92669-10-17 06:29 G 35568006.70 35568006.77 35568006.85 0.0512 0.0403

Moon 92671-05-21 18:29 G 35568588.15 35568588.27 35568588.39 0.2700 0.1680

Earth 92671-05-21 20:10 G 35568588.24 35568588.34 35568588.44 0.2701 0.1982 *

Saturn 92673-01-22 03:22 G 35569199.48 35569199.64 35569199.80 0.0292 0.0159

Saturn 92673-04-21 04:48 G 35569288.52 35569288.70 35569288.88 0.0294 0.0061

Saturn 92673-07-19 06:00 G 35569377.71 35569377.75 35569377.81 0.0295 0.0282

Mars 92675-02-03 04:48 G 35569941.63 35569941.70 35569941.76 0.1585 0.1271

Jupiter 92675-09-13 16:19 G 35570164.08 35570164.18 35570164.28 0.0512 0.0433

Mars 92677-01-08 05:31 G 35570646.61 35570646.73 35570646.85 0.1584 0.0119

Mars 92678-12-14 06:58 G 35571351.77 35571351.79 35571351.82 0.1585 0.1545

Neptune 92679-10-20 04:48 G 35571661.66 35571661.70 35571661.80 0.0090 0.0084

Neptune 92680-01-16 08:38 G 35571749.77 35571749.86 35571749.99 0.0090 0.0073

Neptune 92680-04-13 12:14 G 35571837.89 35571838.01 35571838.17 0.0090 0.0062

Neptune 92680-07-10 16:05 G 35571926.02 35571926.17 35571926.34 0.0090 0.0051

Neptune 92680-10-06 19:41 G 35572014.16 35572014.32 35572014.51 0.0090 0.0040

Earth 92680-11-17 07:41 G 35572055.72 35572055.82 35572055.93 0.2632 0.0861

Moon 92680-11-17 08:24 G 35572055.74 35572055.85 35572055.95 0.2629 0.0923 *

Neptune 92681-01-02 23:17 G 35572102.30 35572102.47 35572102.67 0.0090 0.0029

Neptune 92681-04-01 03:07 G 35572190.45 35572190.63 35572190.82 0.0090 0.0018

Jupiter 92681-05-08 06:58 G 35572227.72 35572227.79 35572227.86 0.0514 0.0431

Neptune 92681-06-28 06:43 G 35572278.59 35572278.78 35572278.98 0.0090 0.0007

Jupiter 92681-08-05 11:02 G 35572316.85 35572316.96 35572317.07 0.0512 0.0236

Neptune 92681-09-24 10:19 G 35572366.74 35572366.93 35572367.13 0.0090 0.0005

Mars 92681-09-26 09:07 G 35572368.78 35572368.88 35572368.99 0.1954 0.1467

Neptune 92681-12-21 13:55 G 35572454.90 35572455.08 35572455.27 0.0090 0.0015

Neptune 92682-03-19 17:31 G 35572543.05 35572543.23 35572543.42 0.0090 0.0026

Neptune 92682-06-15 21:07 G 35572631.21 35572631.38 35572631.56 0.0090 0.0037

Neptune 92682-09-12 00:29 G 35572719.37 35572719.52 35572719.69 0.0090 0.0048

Neptune 92682-12-09 03:50 G 35572807.54 35572807.66 35572807.82 0.0090 0.0059

Neptune 92683-03-07 07:41 G 35572895.71 35572895.82 35572895.95 0.0090 0.0069

Neptune 92683-06-03 11:02 G 35572983.89 35572983.96 35572984.06 0.0090 0.0080

Uranus 92683-11-22 05:46 G 35573155.68 35573155.74 35573155.83 0.0135 0.0124

Uranus 92684-02-18 13:12 G 35573243.93 35573244.05 35573244.19 0.0135 0.0097

Uranus 92684-05-16 20:24 G 35573332.20 35573332.35 35573332.53 0.0135 0.0070

Uranus 92684-08-13 03:50 G 35573420.48 35573420.66 35573420.85 0.0135 0.0043

Uranus 92684-11-09 11:17 G 35573508.78 35573508.97 35573509.16 0.0135 0.0016

Uranus 92685-02-05 18:29 G 35573597.08 35573597.27 35573597.46 0.0135 0.0011

Uranus 92685-05-05 01:26 G 35573685.38 35573685.56 35573685.75 0.0135 0.0038

Uranus 92685-08-01 08:53 G 35573773.70 35573773.87 35573774.03 0.0135 0.0064

Uranus 92685-10-28 15:36 G 35573862.02 35573862.15 35573862.30 0.0135 0.0091

Uranus 92686-01-24 22:48 G 35573950.37 35573950.45 35573950.55 0.0135 0.0117

Saturn 92686-03-03 23:31 G 35573988.40 35573988.48 35573988.56 0.0271 0.0216

Saturn 92686-05-31 09:36 G 35574076.78 35574076.90 35574077.03 0.0270 0.0098

Mars 92686-05-31 17:17 G 35574077.10 35574077.22 35574077.34 0.1584 0.0227

Saturn 92686-08-27 19:55 G 35574165.20 35574165.33 35574165.46 0.0269 0.0020

Saturn 92686-11-24 06:00 G 35574253.64 35574253.75 35574253.87 0.0269 0.0136

Saturn 92687-02-20 16:05 G 35574342.14 35574342.17 35574342.22 0.0268 0.0253

Venus 92687-04-04 18:14 G 35574385.10 35574385.26 35574385.42 0.3751 0.0536

Jupiter 92687-10-01 01:55 G 35574564.44 35574564.58 35574564.72 0.0514 0.0331

Mars 92688-05-05 18:43 G 35574782.20 35574782.28 35574782.35 0.1585 0.1195

Venus 92690-01-07 11:02 G 35575393.88 35575393.96 35575394.05 0.3623 0.2112

Mars 92691-02-16 01:26 G 35575798.39 35575798.56 35575798.72 0.1954 0.0177

Jupiter 92693-05-24 15:50 G 35576627.03 35576627.16 35576627.28 0.0512 0.0072

Earth 92693-11-20 01:26 G 35576806.51 35576806.56 35576806.62 0.2631 0.2276

Moon 92693-11-20 01:55 G 35576806.53 35576806.58 35576806.62 0.2625 0.2382 *

Venus 92695-07-24 01:55 G 35577417.48 35577417.58 35577417.68 0.3622 0.0137

Mars 92695-10-22 05:02 G 35577507.60 35577507.71 35577507.82 0.1584 0.0563

Mars 92697-09-26 06:14 G 35578212.66 35578212.76 35578212.86 0.1584 0.0844

Jupiter 92699-07-19 22:34 G 35578874.26 35578874.44 35578874.62 0.0513 0.0085

Mars 92700-07-08 17:02 G 35579228.07 35579228.21 35579228.34 0.1954 0.1153

Earth 92700-11-14 01:26 G 35579356.47 35579356.56 35579356.64 0.2633 0.1642

Moon 92700-11-14 01:41 G 35579356.49 35579356.57 35579356.66 0.2639 0.1634 *

Venus	92701-02-06 16:48 G	35579441.11	35579441.20	35579441.29	0.3621	0.1852
Saturn	92702-06-12 00:14 G	35579931.41	35579931.51	35579931.64	0.0292	0.0229
Saturn	92702-09-09 01:55 G	35580020.40	35580020.58	35580020.77	0.0293	0.0011
Saturn	92702-12-07 03:22 G	35580109.51	35580109.64	35580109.77	0.0294	0.0210
Moon	92704-05-19 18:43 G	35580639.13	35580639.28	35580639.44	0.2695	0.0706
Earth	92704-05-19 19:55 G	35580639.18	35580639.33	35580639.49	0.2700	0.0527 *
Jupiter	92705-03-13 20:24 G	35580937.22	35580937.35	35580937.47	0.0513	0.0099
Mars	92705-03-14 16:48 G	35580938.11	35580938.20	35580938.30	0.1584	0.0904
Mars	92707-02-17 17:46 G	35581643.13	35581643.24	35581643.36	0.1584	0.0498
Jupiter	92711-05-08 18:58 G	35583184.11	35583184.29	35583184.47	0.0512	0.0163
Earth	92713-11-16 18:58 G	35584107.17	35584107.29	35584107.40	0.2633	0.0279
Moon	92713-11-16 19:26 G	35584107.20	35584107.31	35584107.42	0.2635	0.0166 *
Mars	92714-08-05 04:34 G	35584368.62	35584368.69	35584368.76	0.1585	0.1242
Saturn	92715-07-23 01:55 G	35584720.54	35584720.58	35584720.62	0.0272	0.0255
Saturn	92715-10-19 12:00 G	35584808.89	35584809.00	35584809.12	0.0271	0.0136
Saturn	92716-01-15 22:19 G	35584897.30	35584897.43	35584897.56	0.0270	0.0019
Saturn	92716-04-13 08:24 G	35584985.73	35584985.85	35584985.98	0.0269	0.0099
Mars	92716-07-10 05:31 G	35585073.61	35585073.73	35585073.85	0.1583	0.0149
Saturn	92716-07-10 18:29 G	35585074.20	35585074.27	35585074.36	0.0268	0.0216
Jupiter	92716-12-31 00:58 G	35585247.43	35585247.54	35585247.65	0.0514	0.0261
Jupiter	92717-03-30 05:17 G	35585336.64	35585336.72	35585336.80	0.0512	0.0407
Moon	92717-05-23 01:12 G	35585390.48	35585390.55	35585390.61	0.2702	0.2407
Earth	92717-05-23 02:53 G	35585390.57	35585390.62	35585390.66	0.2701	0.2561 *
Mars	92718-06-15 07:12 G	35585778.79	35585778.80	35585778.80	0.1585	0.1581
Mars	92721-03-28 09:50 G	35586795.81	35586795.91	35586796.01	0.1954	0.1539
Jupiter	92723-02-24 14:53 G	35587494.01	35587494.12	35587494.22	0.0511	0.0420
Mars	92723-12-26 16:34 G	35587799.18	35587799.19	35587799.20	0.1586	0.1573
Mars	92725-11-30 17:17 G	35588504.10	35588504.22	35588504.33	0.1584	0.0198
Uranus	92726-05-23 16:05 G	35588678.15	35588678.17	35588678.19	0.0143	0.0141
Uranus	92726-08-19 19:26 G	35588766.24	35588766.31	35588766.39	0.0143	0.0119

Uranus 92726-11-15 23:02 G 35588854.37 35588854.46 35588854.56 0.0143 0.0097

Earth 92726-11-19 12:29 G 35588857.92 35588858.02 35588858.12 0.2632 0.1143

Moon 92726-11-19 13:12 G 35588857.95 35588858.05 35588858.15 0.2628 0.1246 *

Uranus 92727-02-12 02:38 G 35588942.50 35588942.61 35588942.72 0.0143 0.0075

Uranus 92727-05-11 06:14 G 35589030.64 35589030.76 35589030.88 0.0143 0.0053

Uranus 92727-08-07 09:50 G 35589118.78 35589118.91 35589119.04 0.0143 0.0031

Uranus 92727-11-03 13:26 G 35589206.93 35589207.06 35589207.19 0.0143 0.0009

Mars 92727-11-05 18:29 G 35589209.20 35589209.27 35589209.35 0.1585 0.1225

Uranus 92728-01-30 17:02 G 35589295.08 35589295.21 35589295.34 0.0143 0.0013

Uranus 92728-04-27 20:38 G 35589383.23 35589383.36 35589383.49 0.0144 0.0036

Uranus 92728-07-25 00:14 G 35589471.39 35589471.51 35589471.63 0.0144 0.0058

Jupiter 92728-10-19 06:00 G 35589557.68 35589557.75 35589557.82 0.0515 0.0421

Uranus 92728-10-21 03:50 G 35589559.55 35589559.66 35589559.77 0.0144 0.0081

Jupiter 92729-01-16 10:05 G 35589646.81 35589646.92 35589647.03 0.0513 0.0248

Uranus 92729-01-17 07:26 G 35589647.72 35589647.81 35589647.91 0.0144 0.0103

Uranus 92729-04-15 11:17 G 35589735.91 35589735.97 35589736.03 0.0144 0.0126

Mars 92730-08-18 01:55 G 35590225.42 35590225.58 35590225.75 0.1954 0.0249

Saturn 92732-01-26 22:34 G 35590752.26 35590752.44 35590752.62 0.0293 0.0085

Saturn 92732-04-25 00:00 G 35590841.34 35590841.50 35590841.67 0.0294 0.0135

Jupiter 92735-03-14 00:29 G 35591894.39 35591894.52 35591894.66 0.0513 0.0345

Mars 92735-04-23 05:02 G 35591934.60 35591934.71 35591934.82 0.1584 0.0533

Mars 92737-03-28 06:14 G 35592639.66 35592639.76 35592639.85 0.1584 0.0877

Pluto 92738-12-06 11:31 G 35593257.91 35593257.98 35593258.06 0.0083 0.0069

Pluto 92739-03-04 12:58 G 35593345.93 35593346.04 35593346.16 0.0083 0.0049

Pluto 92739-05-31 14:10 G 35593433.97 35593434.09 35593434.23 0.0083 0.0029

Pluto 92739-08-27 15:36 G 35593522.02 35593522.15 35593522.29 0.0083 0.0009

Earth 92739-11-22 06:14 G 35593608.74 35593608.76 35593608.79 0.2631 0.2563

Moon 92739-11-22 06:29 G 35593608.75 35593608.77 35593608.80 0.2625 0.2546 *

Pluto 92739-11-23 17:02 G 35593610.07 35593610.21 35593610.35 0.0083 0.0011

Mars 92740-01-07 18:00 G 35593655.11 35593655.25 35593655.39 0.1954 0.1066

Pluto 92740-02-19 18:14 G 35593698.13 35593698.26 35593698.39 0.0083 0.0031

Pluto 92740-05-17 19:41 G 35593786.21 35593786.32 35593786.43 0.0082 0.0051

Pluto 92740-08-13 20:53 G 35593874.30 35593874.37 35593874.44 0.0082 0.0071

Jupiter 92740-11-04 14:38 G 35593956.99 35593957.11 35593957.24 0.0512 0.0085

Venus 92741-01-29 17:31 G 35594043.20 35594043.23 35594043.27 0.3624 0.3360

Venus 92743-11-10 21:36 G 35595058.27 35595058.40 35595058.52 0.3751 0.2417

Mars 92744-09-12 16:48 G 35595365.11 35595365.20 35595365.30 0.1584 0.0872

Saturn 92745-03-07 14:24 G 35595541.00 35595541.10 35595541.20 0.0271 0.0177

Saturn 92745-06-04 00:29 G 35595629.40 35595629.52 35595629.65 0.0270 0.0059

Saturn 92745-08-31 10:48 G 35595717.82 35595717.95 35595718.08 0.0269 0.0060

Saturn 92745-11-27 20:53 G 35595806.28 35595806.37 35595806.47 0.0268 0.0177

Venus 92746-08-15 08:24 G 35596066.76 35596066.85 35596066.94 0.3623 0.1397

Mars 92746-08-18 17:46 G 35596070.13 35596070.24 35596070.35 0.1584 0.0529

Earth 92746-11-15 06:00 G 35596158.66 35596158.75 35596158.85 0.2633 0.1364

Moon 92746-11-15 06:29 G 35596158.68 35596158.77 35596158.87 0.2639 0.1240 *

Jupiter 92746-12-30 20:38 G 35596204.18 35596204.36 35596204.54 0.0513 0.0092

Moon 92750-05-21 01:26 G 35597441.40 35597441.56 35597441.71 0.2696 0.0136

Earth 92750-05-21 02:38 G 35597441.46 35597441.61 35597441.77 0.2700 0.0063 *

Venus 92752-02-28 23:17 G 35598090.37 35598090.47 35598090.56 0.3622 0.0605

Jupiter 92752-08-23 19:26 G 35598267.18 35598267.31 35598267.44 0.0513 0.0082

Mars 92754-02-03 04:48 G 35598795.62 35598795.70 35598795.77 0.1585 0.1208

Mars 92756-01-09 05:31 G 35599500.61 35599500.73 35599500.85 0.1584 0.0183

Venus 92757-09-13 13:55 G 35600114.01 35600114.08 35600114.15 0.3621 0.2570

Jupiter 92758-10-18 17:17 G 35600514.04 35600514.22 35600514.39 0.0513 0.0155

Earth 92759-11-17 23:46 G 35600909.38 35600909.49 35600909.60 0.2632 0.0079

Moon 92759-11-18 00:29 G 35600909.40 35600909.52 35600909.63 0.2633 0.0144 *

Mars 92760-09-26 10:48 G 35601222.86 35601222.95 35601223.04 0.1954 0.1625

Neptune 92760-11-01 01:12 G 35601258.51 35601258.55 35601258.60 0.0088 0.0083

Neptune 92761-01-28 02:24 G 35601346.54 35601346.60 35601346.67 0.0088 0.0076

Neptune 92761-04-26 03:36 G 35601434.58 35601434.65 35601434.74 0.0088 0.0069

Saturn 92761-06-14 20:38 G 35601484.20 35601484.36 35601484.52 0.0292 0.0147

Neptune 92761-07-23 05:02 G 35601522.62 35601522.71 35601522.81 0.0088 0.0062

Saturn 92761-09-11 22:05 G 35601573.24 35601573.42 35601573.60 0.0293 0.0072

Neptune 92761-10-19 06:14 G 35601610.67 35601610.76 35601610.87 0.0088 0.0055

Saturn 92761-12-09 23:17 G 35601662.45 35601662.47 35601662.50 0.0294 0.0291

Neptune 92762-01-15 07:41 G 35601698.71 35601698.82 35601698.93 0.0088 0.0048

Neptune 92762-04-13 08:53 G 35601786.76 35601786.87 35601786.99 0.0088 0.0041

Neptune 92762-07-10 10:05 G 35601874.81 35601874.92 35601875.05 0.0088 0.0034

Neptune 92762-10-06 11:31 G 35601962.86 35601962.98 35601963.11 0.0088 0.0027

Neptune 92763-01-02 12:43 G 35602050.91 35602051.03 35602051.17 0.0088 0.0020

Neptune 92763-03-31 14:10 G 35602138.96 35602139.09 35602139.22 0.0088 0.0012

Mars 92763-06-26 16:34 G 35602226.17 35602226.19 35602226.21 0.1586 0.1544

Neptune 92763-06-27 15:22 G 35602227.01 35602227.14 35602227.28 0.0088 0.0006

Neptune 92763-09-23 16:48 G 35602315.06 35602315.20 35602315.33 0.0088 0.0002

Neptune 92763-12-20 18:00 G 35602403.12 35602403.25 35602403.39 0.0088 0.0009

Neptune 92764-03-17 19:26 G 35602491.18 35602491.31 35602491.44 0.0088 0.0016

Jupiter 92764-06-11 23:46 G 35602577.38 35602577.49 35602577.60 0.0514 0.0254

Neptune 92764-06-13 20:38 G 35602579.23 35602579.36 35602579.49 0.0088 0.0023

Jupiter 92764-09-09 03:50 G 35602666.59 35602666.66 35602666.74 0.0512 0.0414

Neptune 92764-09-09 21:50 G 35602667.29 35602667.41 35602667.54 0.0088 0.0030

Neptune 92764-12-06 23:02 G 35602755.35 35602755.46 35602755.59 0.0088 0.0038

Neptune 92765-03-05 00:29 G 35602843.41 35602843.52 35602843.64 0.0088 0.0045

Mars 92765-05-31 17:17 G 35602931.10 35602931.22 35602931.33 0.1583 0.0164

Neptune 92765-06-01 01:55 G 35602931.47 35602931.58 35602931.69 0.0088 0.0052

Neptune 92765-08-28 03:07 G 35603019.54 35603019.63 35603019.73 0.0088 0.0059

Neptune 92765-11-24 04:34 G 35603107.60 35603107.69 35603107.78 0.0088 0.0066

Neptune 92766-02-20 05:31 G 35603195.68 35603195.73 35603195.82 0.0088 0.0074

Neptune 92766-05-19 06:58 G 35603283.75 35603283.79 35603283.85 0.0088 0.0081

Neptune 92766-08-15 08:38 G 35603371.86 35603371.86 35603371.86 0.0088 0.0087

Mars 92767-05-06 18:43 G 35603636.21 35603636.28 35603636.35 0.1584 0.1262

Uranus 92767-12-13 13:41 G 35603856.99 35603857.07 35603857.19 0.0135 0.0114

Uranus 92768-03-10 21:07 G 35603945.25 35603945.38 35603945.54 0.0135 0.0087

Uranus 92768-06-07 04:48 G 35604033.53 35604033.70 35604033.87 0.0135 0.0059

Uranus 92768-09-03 12:00 G 35604121.82 35604122.00 35604122.19 0.0135 0.0032

Uranus 92768-11-30 19:26 G 35604210.11 35604210.31 35604210.50 0.0135 0.0006

Uranus 92769-02-27 02:24 G 35604298.42 35604298.60 35604298.80 0.0135 0.0022

Uranus 92769-05-26 09:50 G 35604386.73 35604386.91 35604387.09 0.0135 0.0048

Uranus 92769-08-22 16:48 G 35604475.05 35604475.20 35604475.37 0.0135 0.0075

Uranus 92769-11-19 00:00 G 35604563.38 35604563.50 35604563.63 0.0135 0.0101

Uranus 92770-02-15 06:43 G 35604651.74 35604651.78 35604651.86 0.0135 0.0128

Mars 92770-02-16 03:07 G 35604652.47 35604652.63 35604652.79 0.1954 0.0337

Jupiter 92770-08-06 13:26 G 35604823.95 35604824.06 35604824.18 0.0512 0.0404

Earth 92772-11-19 17:17 G 35605660.13 35605660.22 35605660.32 0.2632 0.1428

Moon 92772-11-19 18:00 G 35605660.16 35605660.25 35605660.34 0.2628 0.1512 *

Saturn 92774-07-25 16:48 G 35606273.13 35606273.20 35606273.29 0.0272 0.0213

Saturn 92774-10-22 03:07 G 35606361.51 35606361.63 35606361.75 0.0271 0.0094

Mars 92774-10-22 05:02 G 35606361.60 35606361.71 35606361.82 0.1584 0.0505 *

Saturn 92775-01-18 13:26 G 35606449.93 35606450.06 35606450.19 0.0270 0.0025

Saturn 92775-04-16 23:31 G 35606538.37 35606538.48 35606538.59 0.0269 0.0142

Saturn 92775-07-14 09:36 G 35606626.88 35606626.90 35606626.94 0.0268 0.0259

Jupiter 92776-03-31 04:19 G 35606887.61 35606887.68 35606887.76 0.0514 0.0420

Jupiter 92776-06-28 08:38 G 35606976.75 35606976.86 35606976.97 0.0512 0.0248

Mars 92776-09-26 06:14 G 35607066.66 35607066.76 35607066.85 0.1584 0.0910

Mars 92779-07-08 18:43 G 35608082.14 35608082.28 35608082.42 0.1954 0.0995

Moon 92779-11-13 17:31 G 35608210.18 35608210.23 35608210.27 0.2640 0.2411

Earth 92779-11-13 17:17 G 35608210.19 35608210.22 35608210.26 0.2634 0.2459 *

Jupiter 92782-08-23 22:34 G 35609224.31 35609224.44 35609224.57 0.0513 0.0349

Earth 92783-05-19 02:10 G 35609492.54 35609492.59 35609492.65 0.2699 0.2505

Mars 92784-03-13 16:48 G 35609792.10 35609792.20 35609792.30 0.1584 0.0841

Mars 92786-02-16 17:46 G 35610497.13 35610497.24 35610497.35 0.1584 0.0558

Jupiter 92788-04-16 13:26 G 35611286.93 35611287.06 35611287.18 0.0513 0.0087

Saturn 92790-11-01 18:14 G 35612216.13 35612216.26 35612216.38 0.0292 0.0215

Saturn 92791-01-29 19:41 G 35612305.13 35612305.32 35612305.51 0.0293 0.0004

Saturn 92791-04-28 20:53 G 35612394.25 35612394.37 35612394.49 0.0294 0.0223

Earth 92792-11-15 10:48 G 35612960.85 35612960.95 35612961.05 0.2633 0.1087

Moon 92792-11-15 11:17 G 35612960.87 35612960.97 35612961.07 0.2639 0.1084 *

Mars 92793-08-04 04:34 G 35613222.62 35613222.69 35613222.77 0.1585 0.1178

Jupiter 92794-06-11 18:58 G 35613534.11 35613534.29 35613534.47 0.0513 0.0100

Mars 92795-07-10 05:31 G 35613927.61 35613927.73 35613927.85 0.1584 0.0216

Moon 92796-05-21 07:41 G 35614243.67 35614243.82 35614243.98 0.2698 0.0509

Earth 92796-05-21 09:22 G 35614243.74 35614243.89 35614244.04 0.2700 0.0647 *

Venus 92797-09-05 14:53 G 35614716.05 35614716.12 35614716.18 0.3624 0.2651

Jupiter 92800-02-03 18:14 G 35615597.13 35615597.26 35615597.38 0.0513 0.0078

Mars 92800-03-27 11:46 G 35615649.91 35615649.99 35615650.06 0.1954 0.1705

Mars 92802-12-25 16:34 G 35616653.16 35616653.19 35616653.22 0.1586 0.1511

Venus 92803-03-22 05:31 G 35616739.63 35616739.73 35616739.83 0.3623 0.0682

Saturn 92803-12-12 19:26 G 35617005.26 35617005.31 35617005.36 0.0272 0.0250

Saturn 92804-03-10 05:31 G 35617093.62 35617093.73 35617093.85 0.0271 0.0132

Saturn 92804-06-06 15:50 G 35617182.03 35617182.16 35617182.29 0.0270 0.0013

Saturn 92804-09-03 02:10 G 35617270.47 35617270.59 35617270.71 0.0269 0.0106

Mars 92804-11-29 17:17 G 35617358.10 35617358.22 35617358.33 0.1584 0.0138

Saturn 92804-11-30 12:14 G 35617358.94 35617359.01 35617359.09 0.0268 0.0223

Earth 92805-11-18 04:34 G 35617711.58 35617711.69 35617711.80 0.2632 0.0313

Moon 92805-11-18 05:17 G 35617711.61 35617711.72 35617711.83 0.2632 0.0471 *

Jupiter 92806-03-30 14:38 G 35617843.94 35617844.11 35617844.29 0.0513 0.0160

Mars 92806-11-04 18:29 G 35618063.21 35618063.27 35618063.34 0.1585 0.1296

Venus 92808-10-04 20:24 G 35618763.26 35618763.35 35618763.44 0.3621 0.1307

Mars 92809-08-17 04:05 G 35619079.51 35619079.67 35619079.83 0.1954 0.0425

Uranus 92810-06-13 00:14 G 35619379.46 35619379.51 35619379.56 0.0143 0.0130

Uranus 92810-09-09 03:36 G 35619467.57 35619467.65 35619467.74 0.0143 0.0109

Uranus 92810-12-06 07:12 G 35619555.70 35619555.80 35619555.91 0.0143 0.0087

Uranus 92811-03-04 10:48 G 35619643.84 35619643.95 35619644.07 0.0143 0.0065

Uranus 92811-05-31 14:24 G 35619731.98 35619732.10 35619732.23 0.0143 0.0043

Uranus 92811-08-27 18:00 G 35619820.12 35619820.25 35619820.38 0.0143 0.0021

Jupiter 92811-11-22 22:48 G 35619907.34 35619907.45 35619907.56 0.0513 0.0241

Uranus 92811-11-23 21:36 G 35619908.27 35619908.40 35619908.53 0.0143 0.0003

Uranus 92812-02-20 01:12 G 35619996.42 35619996.55 35619996.68 0.0143 0.0024

Jupiter 92812-02-20 02:53 G 35619996.55 35619996.62 35619996.69 0.0511 0.0424 *

Uranus 92812-05-18 04:48 G 35620084.58 35620084.70 35620084.83 0.0144 0.0046

Uranus 92812-08-14 08:24 G 35620172.74 35620172.85 35620172.97 0.0144 0.0069

Uranus 92812-11-10 12:00 G 35620260.91 35620261.00 35620261.11 0.0144 0.0092

Uranus 92813-02-06 15:50 G 35620349.08 35620349.16 35620349.24 0.0144 0.0114

Uranus 92813-05-05 19:26 G 35620437.28 35620437.31 35620437.35 0.0144 0.0137

Venus 92814-04-20 11:17 G 35620786.93 35620786.97 35620787.01 0.3620 0.3292

Mars 92814-04-22 05:02 G 35620788.60 35620788.71 35620788.82 0.1584 0.0469

Mars 92816-03-27 06:14 G 35621493.66 35621493.76 35621493.85 0.1584 0.0943

Jupiter 92818-01-16 11:02 G 35622153.85 35622153.96 35622154.07 0.0512 0.0408

Earth 92818-11-20 22:19 G 35622462.34 35622462.43 35622462.51 0.2632 0.1717

Moon 92818-11-20 22:48 G 35622462.37 35622462.45 35622462.53 0.2628 0.1780 *

Mars 92819-01-06 19:41 G 35622509.17 35622509.32 35622509.46 0.1954 0.0910

Saturn 92820-03-20 16:48 G 35622948.14 35622948.20 35622948.28 0.0291 0.0270

Saturn 92820-06-17 18:29 G 35623037.09 35623037.27 35623037.45 0.0292 0.0052

Saturn 92820-09-14 19:41 G 35623126.17 35623126.32 35623126.48 0.0293 0.0167

Jupiter 92823-09-11 03:07 G 35624217.56 35624217.63 35624217.70 0.0514 0.0416

Mars 92823-09-12 16:48 G 35624219.10 35624219.20 35624219.30 0.1584 0.0810

Jupiter 92823-12-09 07:12 G 35624306.69 35624306.80 35624306.91 0.0512 0.0251

Mars 92825-08-17 17:46 G 35624924.13 35624924.24 35624924.35 0.1584 0.0596

Earth 92825-11-13 22:05 G 35625012.36 35625012.42 35625012.48 0.2634 0.2185

Moon 92825-11-13 22:19 G 35625012.37 35625012.43 35625012.49 0.2641 0.2211 *

Moon 92829-05-19 08:10 G 35626294.73 35626294.84 35626294.95 0.2693 0.1903

Earth 92829-05-19 08:53 G 35626294.76 35626294.87 35626294.98 0.2699 0.1911 *

Jupiter 92830-02-02 20:53 G 35626554.24 35626554.37 35626554.50 0.0513 0.0356

Mars 92833-02-02 04:34 G 35627649.61 35627649.69 35627649.77 0.1585 0.1149

Saturn 92833-07-28 08:38 G 35627825.75 35627825.86 35627825.96 0.0271 0.0163

Saturn 92833-10-24 18:58 G 35627914.16 35627914.29 35627914.42 0.0270 0.0045

Saturn 92834-01-21 05:02 G 35628002.59 35628002.71 35628002.84 0.0269 0.0074

Saturn 92834-04-19 15:22 G 35628091.05 35628091.14 35628091.23 0.0268 0.0192

Mars 92835-01-08 05:31 G 35628354.61 35628354.73 35628354.84 0.1583 0.0248

Jupiter 92835-09-27 11:46 G 35628616.86 35628616.99 35628617.12 0.0513 0.0083

Earth 92838-11-16 15:36 G 35629763.05 35629763.15 35629763.26 0.2633 0.0811

Moon 92838-11-16 16:05 G 35629763.07 35629763.17 35629763.28 0.2637 0.0679 *

Mars 92839-09-26 12:29 G 35630076.96 35630077.02 35630077.09 0.1954 0.1784

Jupiter 92841-11-21 16:34 G 35630864.01 35630864.19 35630864.37 0.0513 0.0097

Moon 92842-05-22 14:10 G 35631045.95 35631046.09 35631046.24 0.2699 0.0908

Earth 92842-05-22 15:50 G 35631046.02 35631046.16 35631046.30 0.2700 0.1223 *

Mars 92842-06-25 16:34 G 35631080.15 35631080.19 35631080.23 0.1586 0.1482

Mars 92844-05-30 17:02 G 35631785.10 35631785.21 35631785.33 0.1583 0.0113

Neptune 92844-07-17 01:41 G 35631832.52 35631832.57 35631832.66 0.0090 0.0083

Neptune 92844-10-13 05:31 G 35631920.63 35631920.73 35631920.86 0.0090 0.0072

Neptune 92845-01-09 09:07 G 35632008.75 35632008.88 35632009.04 0.0090 0.0061

Neptune 92845-04-07 12:58 G 35632096.89 35632097.04 35632097.21 0.0090 0.0050

Neptune 92845-07-04 16:34 G 35632185.03 35632185.19 35632185.37 0.0090 0.0039

Neptune 92845-09-30 20:10 G 35632273.17 35632273.34 35632273.53 0.0090 0.0028

Neptune 92845-12-28 00:00 G 35632361.31 35632361.50 35632361.69 0.0090 0.0017

Neptune 92846-03-26 03:36 G 35632449.46 35632449.65 35632449.85 0.0090 0.0006

Mars 92846-05-05 18:29 G 35632490.21 35632490.27 35632490.34 0.1584 0.1325

Neptune 92846-06-22 07:12 G 35632537.61 35632537.80 35632538.00 0.0090 0.0005

Neptune 92846-09-18 10:48 G 35632625.77 35632625.95 35632626.14 0.0090 0.0016

Neptune 92846-12-15 14:24 G 35632713.92 35632714.10 35632714.29 0.0090 0.0027

Neptune 92847-03-13 17:46 G 35632802.08 35632802.24 35632802.43 0.0090 0.0038

Neptune 92847-06-09 21:22 G 35632890.24 35632890.39 35632890.56 0.0090 0.0049

Jupiter 92847-07-16 16:34 G 35632927.06 35632927.19 35632927.31 0.0513 0.0080

Neptune 92847-09-06 00:43 G 35632978.41 35632978.53 35632978.69 0.0090 0.0060

Neptune 92847-12-03 04:34 G 35633066.58 35633066.69 35633066.82 0.0090 0.0070

Neptune 92848-02-29 07:55 G 35633154.77 35633154.83 35633154.93 0.0090 0.0081

Mars 92849-02-15 04:34 G 35633506.53 35633506.69 35633506.85 0.1955 0.0488

Saturn 92849-11-04 17:02 G 35633769.04 35633769.21 35633769.39 0.0292 0.0111

Saturn 92850-02-01 18:29 G 35633858.10 35633858.27 35633858.44 0.0293 0.0108

Venus 92851-07-08 14:24 G 35634379.94 35634380.10 35634380.25 0.3751 0.0987

Uranus 92851-10-06 15:07 G 35634470.08 35634470.13 35634470.19 0.0135 0.0129

Earth 92851-11-19 09:22 G 35634513.78 35634513.89 35634514.00 0.2632 0.0589

Moon 92851-11-19 10:05 G 35634513.81 35634513.92 35634514.03 0.2631 0.0632 *

Uranus 92852-01-02 22:19 G 35634558.32 35634558.43 35634558.57 0.0135 0.0102

Uranus 92852-03-31 05:46 G 35634646.59 35634646.74 35634646.91 0.0135 0.0075

Uranus 92852-06-27 13:12 G 35634734.87 35634735.05 35634735.23 0.0135 0.0048

Uranus 92852-09-23 20:24 G 35634823.17 35634823.35 35634823.55 0.0135 0.0021

Uranus 92852-12-21 03:50 G 35634911.47 35634911.66 35634911.85 0.0135 0.0006

Uranus 92853-03-19 11:02 G 35634999.77 35634999.96 35635000.15 0.0135 0.0033

Uranus 92853-06-15 18:00 G 35635088.09 35635088.25 35635088.43 0.0135 0.0060

Jupiter 92853-09-09 12:43 G 35635173.85 35635174.03 35635174.20 0.0512 0.0157

Uranus 92853-09-12 00:58 G 35635176.41 35635176.54 35635176.70 0.0135 0.0087

Mars 92853-10-21 05:02 G 35635215.59 35635215.71 35635215.82 0.1584 0.0439

Uranus 92853-12-09 08:10 G 35635264.75 35635264.84 35635264.96 0.0135 0.0113

Venus 92854-04-12 12:00 G 35635388.92 35635389.00 35635389.09 0.3623 0.1928

Mars 92855-09-26 06:00 G 35635920.66 35635920.75 35635920.85 0.1584 0.0978

Mars 92858-07-07 20:53 G 35636936.22 35636936.37 35636936.52 0.1954 0.0812

Jupiter 92859-05-04 21:22 G 35637237.28 35637237.39 35637237.50 0.0513 0.0242

Jupiter 92859-08-02 01:26 G 35637326.49 35637326.56 35637326.63 0.0511 0.0424

Venus 92859-10-27 02:53 G 35637412.52 35637412.62 35637412.72 0.3622 0.0056

Saturn 92862-12-15 11:17 G 35638557.89 35638557.97 35638558.07 0.0272 0.0198

Mars 92863-03-13 16:48 G 35638646.10 35638646.20 35638646.30 0.1584 0.0778

Saturn 92863-03-13 21:36 G 35638646.28 35638646.40 35638646.53 0.0271 0.0078 *

Saturn 92863-06-10 07:55 G 35638734.70 35638734.83 35638734.96 0.0270 0.0041

Saturn 92863-09-06 18:14 G 35638823.15 35638823.26 35638823.36 0.0269 0.0158

Earth 92864-11-21 03:07 G 35639264.56 35639264.63 35639264.70 0.2631 0.2001

Moon 92864-11-21 03:22 G 35639264.58 35639264.64 35639264.71 0.2627 0.2093 *

Mars 92865-02-15 17:46 G 35639351.13 35639351.24 35639351.35 0.1584 0.0626

Venus 92865-05-11 17:46 G 35639436.15 35639436.24 35639436.32 0.3621 0.2032

Jupiter 92865-06-28 08:10 G 35639483.73 35639483.84 35639483.94 0.0512 0.0422

Jupiter 92871-02-21 01:55 G 35641547.50 35641547.58 35641547.66 0.0514 0.0407

Jupiter 92871-05-21 06:00 G 35641636.64 35641636.75 35641636.86 0.0512 0.0258

Earth 92871-11-15 02:53 G 35641814.55 35641814.62 35641814.70 0.2634 0.1911

Moon 92871-11-15 03:07 G 35641814.56 35641814.63 35641814.71 0.2641 0.1849 *

Mars 92872-08-03 04:34 G 35642076.61 35642076.69 35642076.77 0.1585 0.1115

Mars 92874-07-09 05:31 G 35642781.61 35642781.73 35642781.84 0.1583 0.0282

Moon 92875-05-20 14:38 G 35643096.98 35643097.11 35643097.23 0.2694 0.1567

Earth 92875-05-20 15:36 G 35643097.01 35643097.15 35643097.28 0.2699 0.1328 *

Jupiter 92877-07-15 17:46 G 35643884.11 35643884.24 35643884.38 0.0514 0.0345

Saturn 92879-03-24 16:34 G 35644501.03 35644501.19 35644501.35 0.0291 0.0161

Mars 92879-03-27 13:12 G 35644504.00 35644504.05 35644504.10 0.1954 0.1861

Saturn 92879-06-21 18:00 G 35644590.06 35644590.25 35644590.43 0.0293 0.0058

Saturn 92879-09-18 18:58 G 35644679.24 35644679.29 35644679.36 0.0294 0.0277

Mars 92881-12-24 16:34 G 35645507.14 35645507.19 35645507.23 0.1586 0.1455

Jupiter 92883-03-09 10:05 G 35645946.80 35645946.92 35645947.05 0.0513 0.0082

Mars 92883-11-29 17:17 G 35646212.10 35646212.22 35646212.33 0.1583 0.0086

Earth 92884-11-16 20:24 G 35646565.24 35646565.35 35646565.46 0.2633 0.0536

Moon 92884-11-16 21:07 G 35646565.27 35646565.38 35646565.49 0.2636 0.0493 *

Mars 92885-11-03 18:29 G 35646917.22 35646917.27 35646917.33 0.1584 0.1364

Moon 92888-05-22 20:38 G 35647848.24 35647848.36 35647848.48 0.2699 0.1677

Earth 92888-05-22 22:34 G 35647848.32 35647848.44 35647848.55 0.2701 0.1803 *

Mars 92888-08-16 05:46 G 35647933.58 35647933.74 35647933.90 0.1955 0.0587

Jupiter 92889-05-03 14:10 G 35648193.91 35648194.09 35648194.28 0.0513 0.0096

Pluto 92891-10-09 07:41 G 35649082.80 35649082.82 35649082.84 0.0061 0.0061

Pluto 92892-01-05 08:24 G 35649170.76 35649170.85 35649170.97 0.0061 0.0051

Pluto 92892-04-02 09:22 G 35649258.78 35649258.89 35649259.05 0.0061 0.0041

Saturn 92892-05-03 14:38 G 35649290.04 35649290.11 35649290.18 0.0272 0.0226

Pluto 92892-06-29 10:48 G 35649346.80 35649346.95 35649347.12 0.0061 0.0030

Saturn 92892-07-31 00:58 G 35649378.42 35649378.54 35649378.66 0.0271 0.0107

Pluto 92892-09-25 12:14 G 35649434.84 35649435.01 35649435.18 0.0061 0.0019

Saturn 92892-10-27 11:17 G 35649466.83 35649466.97 35649467.10 0.0270 0.0015

Pluto 92892-12-22 13:12 G 35649522.88 35649523.05 35649523.24 0.0061 0.0009

Saturn 92893-01-23 21:22 G 35649555.28 35649555.39 35649555.51 0.0269 0.0130

Pluto 92893-03-20 14:24 G 35649610.92 35649611.10 35649611.29 0.0062 0.0003

Mars 92893-04-21 05:02 G 35649642.59 35649642.71 35649642.82 0.1584 0.0414

Saturn 92893-04-22 07:26 G 35649643.77 35649643.81 35649643.87 0.0268 0.0248

Pluto 92893-06-16 15:36 G 35649698.98 35649699.15 35649699.33 0.0062 0.0013

Pluto 92893-09-12 16:34 G 35649787.03 35649787.19 35649787.37 0.0062 0.0024

Pluto 92893-12-09 17:46 G 35649875.10 35649875.24 35649875.40 0.0062 0.0034

Pluto 92894-03-07 18:43 G 35649963.17 35649963.28 35649963.42 0.0062 0.0045

Pluto 92894-06-03 20:10 G 35650051.27 35650051.34 35650051.42 0.0062 0.0055

Uranus 92894-07-03 07:55 G 35650080.77 35650080.83 35650080.90 0.0143 0.0122

Uranus 92894-09-29 11:31 G 35650168.89 35650168.98 35650169.08 0.0143 0.0101

Jupiter 92894-12-26 14:38 G 35650256.98 35650257.11 35650257.24 0.0513 0.0088

Uranus 92894-12-26 15:07 G 35650257.02 35650257.13 35650257.24 0.0143 0.0079 *

Uranus 92895-03-24 18:43 G 35650345.16 35650345.28 35650345.40 0.0143 0.0057

Mars 92895-03-27 06:14 G 35650347.66 35650347.76 35650347.85 0.1584 0.1010

Uranus 92895-06-20 22:19 G 35650433.30 35650433.43 35650433.56 0.0143 0.0035

Uranus 92895-09-17 01:55 G 35650521.45 35650521.58 35650521.71 0.0143 0.0013

Uranus 92895-12-14 05:31 G 35650609.60 35650609.73 35650609.86 0.0143 0.0010

Uranus 92896-03-11 09:07 G 35650697.75 35650697.88 35650698.01 0.0143 0.0032

Uranus 92896-06-07 12:43 G 35650785.91 35650786.03 35650786.15 0.0144 0.0055

Uranus 92896-09-03 16:05 G 35650874.07 35650874.17 35650874.29 0.0144 0.0078

Uranus 92896-11-30 19:55 G 35650962.24 35650962.33 35650962.43 0.0144 0.0100

Uranus 92897-02-26 23:31 G 35651050.42 35651050.48 35651050.56 0.0144 0.0123

Earth 92897-11-19 14:10 G 35651315.98 35651316.09 35651316.19 0.2632 0.0869

Moon 92897-11-19 14:53 G 35651316.02 35651316.12 35651316.22 0.2631 0.1040 *

Mars 92898-01-05 21:22 G 35651363.23 35651363.39 35651363.54 0.1954 0.0752

Jupiter 92901-02-20 09:50 G 35652503.74 35652503.91 35652504.09 0.0512 0.0166

Mars 92902-09-12 16:48 G 35653073.10 35653073.20 35653073.30 0.1584 0.0746

Mars 92904-08-17 17:46 G 35653778.13 35653778.24 35653778.35 0.1583 0.0657

Venus 92905-05-04 18:29 G 35654038.22 35654038.27 35654038.32 0.3624 0.3172

Jupiter 92906-10-15 19:12 G 35654567.19 35654567.30 35654567.41 0.0514 0.0253

Jupiter 92907-01-12 23:31 G 35654656.41 35654656.48 35654656.55 0.0512 0.0415

Venus 92908-02-13 17:17 G 35655053.08 35655053.22 35655053.36 0.3751 0.1889

Saturn 92908-08-11 15:50 G 35655233.04 35655233.16 35655233.29 0.0291 0.0213

Saturn 92908-11-08 17:17 G 35655322.04 35655322.22 35655322.41 0.0293 0.0008

Saturn 92909-02-05 18:29 G 35655411.16 35655411.27 35655411.40 0.0294 0.0224

Venus 92910-11-18 09:22 G 35656061.79 35656061.89 35656061.98 0.3623 0.1210

Earth 92910-11-23 07:55 G 35656066.77 35656066.83 35656066.88 0.2631 0.2289

Moon 92910-11-23 08:10 G 35656066.79 35656066.84 35656066.89 0.2625 0.2268 *

Mars 92912-02-03 04:34 G 35656503.61 35656503.69 35656503.77 0.1585 0.1086

Jupiter 92912-12-09 05:46 G 35656813.64 35656813.74 35656813.84 0.0512 0.0423

Mars 92914-01-08 05:31 G 35657208.61 35657208.73 35657208.84 0.1583 0.0315

Venus 92916-06-03 00:00 G 35658085.41 35658085.50 35658085.60 0.3622 0.0785

Earth 92917-11-16 07:41 G 35658616.74 35658616.82 35658616.91 0.2634 0.1633

Moon 92917-11-16 07:55 G 35658616.75 35658616.83 35658616.92 0.2640 0.1624 *

Jupiter 92918-08-04 00:14 G 35658877.43 35658877.51 35658877.58 0.0514 0.0414

Mars 92918-09-26 14:10 G 35658931.09 35658931.09 35658931.10 0.1955 0.1954

Jupiter 92918-11-01 04:19 G 35658966.57 35658966.68 35658966.79 0.0512 0.0253

Moon 92921-05-21 20:53 G 35659899.22 35659899.37 35659899.52 0.2696 0.0829

Earth 92921-05-21 22:05 G 35659899.28 35659899.42 35659899.57 0.2700 0.0742 *

Mars 92921-06-25 16:34 G 35659934.14 35659934.19 35659934.24 0.1586 0.1421

Saturn 92921-09-21 17:46 G 35660022.20 35660022.24 35660022.28 0.0272 0.0257

Venus 92921-12-17 14:53 G 35660109.06 35660109.12 35660109.19 0.3621 0.2751

Saturn 92921-12-19 04:05 G 35660110.56 35660110.67 35660110.78 0.0271 0.0137

Saturn 92922-03-17 14:10 G 35660198.96 35660199.09 35660199.23 0.0270 0.0021

Saturn 92922-06-14 00:29 G 35660287.40 35660287.52 35660287.64 0.0269 0.0100

Saturn 92922-09-10 10:48 G 35660375.87 35660375.95 35660376.02 0.0269 0.0218

Mars 92923-05-31 17:02 G 35660639.10 35660639.21 35660639.33 0.1583 0.0055

Jupiter 92924-12-26 14:24 G 35661213.96 35661214.10 35661214.24 0.0514 0.0324

Mars 92925-05-05 18:29 G 35661344.22 35661344.27 35661344.33 0.1584 0.1396

Neptune 92925-07-30 00:14 G 35661429.48 35661429.51 35661429.57 0.0088 0.0082

Neptune 92925-10-26 01:26 G 35661517.51 35661517.56 35661517.64 0.0088 0.0075

Neptune 92926-01-22 02:53 G 35661605.55 35661605.62 35661605.71 0.0088 0.0068

Neptune 92926-04-20 04:05 G 35661693.59 35661693.67 35661693.78 0.0088 0.0061

Neptune 92926-07-17 05:31 G 35661781.63 35661781.73 35661781.84 0.0088 0.0053

Neptune 92926-10-13 06:43 G 35661869.68 35661869.78 35661869.90 0.0088 0.0047

Neptune 92927-01-09 07:55 G 35661957.72 35661957.83 35661957.96 0.0088 0.0040

Neptune 92927-04-07 09:22 G 35662045.77 35662045.89 35662046.02 0.0088 0.0032

Neptune 92927-07-04 10:34 G 35662133.82 35662133.94 35662134.08 0.0088 0.0026

Neptune 92927-09-30 12:00 G 35662221.87 35662222.00 35662222.13 0.0088 0.0018

Neptune 92927-12-27 13:12 G 35662309.92 35662310.05 35662310.19 0.0088 0.0012

Mars 92928-02-16 06:29 G 35662360.62 35662360.77 35662360.93 0.1954 0.0667

Neptune 92928-03-24 14:38 G 35662397.98 35662398.11 35662398.24 0.0088 0.0004

Neptune 92928-06-20 15:50 G 35662486.03 35662486.16 35662486.30 0.0088 0.0004

Neptune 92928-09-16 17:17 G 35662574.08 35662574.22 35662574.35 0.0088 0.0010

Neptune 92928-12-13 18:29 G 35662662.14 35662662.27 35662662.40 0.0088 0.0017

Neptune 92929-03-11 19:41 G 35662750.20 35662750.32 35662750.46 0.0088 0.0025

Neptune 92929-06-07 21:07 G 35662838.26 35662838.38 35662838.51 0.0088 0.0032

Neptune 92929-09-03 22:19 G 35662926.32 35662926.43 35662926.56 0.0088 0.0039

Neptune 92929-11-30 23:46 G 35663014.38 35663014.49 35663014.60 0.0088 0.0046

Neptune 92930-02-27 01:12 G 35663102.44 35663102.55 35663102.65 0.0088 0.0053

Neptune 92930-05-26 02:10 G 35663190.51 35663190.59 35663190.70 0.0088 0.0061

Jupiter 92930-08-20 08:53 G 35663276.74 35663276.87 35663277.00 0.0512 0.0086

Neptune 92930-08-22 03:36 G 35663278.57 35663278.65 35663278.74 0.0088 0.0067

Neptune 92930-11-18 04:48 G 35663366.64 35663366.70 35663366.78 0.0088 0.0075

Earth 92930-11-19 01:12 G 35663367.44 35663367.55 35663367.67 0.2633 0.0269

Moon 92930-11-19 01:55 G 35663367.47 35663367.58 35663367.69 0.2634 0.0130 *

Neptune 92931-02-14 06:14 G 35663454.72 35663454.76 35663454.81 0.0088 0.0082

Mars 92932-10-21 05:02 G 35664069.59 35664069.71 35664069.82 0.1584 0.0375

Moon 92934-05-25 03:22 G 35664650.54 35664650.64 35664650.74 0.2699 0.2036

Earth 92934-05-25 05:02 G 35664650.64 35664650.71 35664650.78 0.2701 0.2374 *

Mars 92934-09-26 06:14 G 35664774.67 35664774.76 35664774.84 0.1584 0.1044

Uranus 92935-10-27 23:31 G 35665171.39 35665171.48 35665171.58 0.0135 0.0117

Uranus 92936-01-24 06:58 G 35665259.65 35665259.79 35665259.94 0.0135 0.0090

Uranus 92936-04-21 14:10 G 35665347.93 35665348.09 35665348.27 0.0135 0.0063

Uranus 92936-07-18 21:36 G 35665436.22 35665436.40 35665436.59 0.0135 0.0036

Jupiter 92936-10-14 10:48 G 35665523.77 35665523.95 35665524.13 0.0513 0.0074

Uranus 92936-10-15 05:02 G 35665524.52 35665524.71 35665524.90 0.0135 0.0009

Uranus 92937-01-11 12:14 G 35665612.82 35665613.01 35665613.20 0.0135 0.0018

Uranus 92937-04-09 19:26 G 35665701.13 35665701.31 35665701.49 0.0135 0.0045

Uranus 92937-07-07 02:24 G 35665789.45 35665789.60 35665789.77 0.0135 0.0072

Mars 92937-07-07 22:19 G 35665790.28 35665790.43 35665790.59 0.1955 0.0656

Uranus 92937-10-03 09:50 G 35665877.78 35665877.91 35665878.04 0.0135 0.0098

Saturn 92937-12-29 15:36 G 35665965.08 35665965.15 35665965.24 0.0291 0.0259

Uranus 92937-12-30 16:34 G 35665966.14 35665966.19 35665966.28 0.0135 0.0125

Saturn 92938-03-28 17:17 G 35666054.04 35666054.22 35666054.41 0.0292 0.0041

Saturn 92938-06-25 18:29 G 35666143.13 35666143.27 35666143.42 0.0293 0.0178

Mars 92942-03-13 16:48 G 35667500.09 35667500.20 35667500.30 0.1584 0.0719

Jupiter 92942-06-08 12:58 G 35667586.91 35667587.04 35667587.16 0.0513 0.0093

Earth 92943-11-21 18:58 G 35668118.19 35668118.29 35668118.39 0.2632 0.1153

Moon 92943-11-21 19:41 G 35668118.22 35668118.32 35668118.42 0.2630 0.1187 *

Mars 92944-02-16 17:46 G 35668205.14 35668205.24 35668205.35 0.1583 0.0693

Jupiter 92948-08-02 07:12 G 35669833.63 35669833.80 35669833.98 0.0512 0.0174

Saturn 92951-05-08 07:26 G 35670842.71 35670842.81 35670842.92 0.0272 0.0164

Mars 92951-08-04 04:34 G 35670930.60 35670930.69 35670930.77 0.1585 0.1055

Saturn 92951-08-04 17:46 G 35670931.11 35670931.24 35670931.37 0.0271 0.0045

Saturn 92951-11-01 03:50 G 35671019.54 35671019.66 35671019.79 0.0270 0.0075

Saturn 92952-01-28 14:10 G 35671108.00 35671108.09 35671108.18 0.0269 0.0192

Mars 92953-07-09 05:17 G 35671635.61 35671635.72 35671635.84 0.1583 0.0347

Jupiter 92954-03-27 17:17 G 35671897.11 35671897.22 35671897.33 0.0514 0.0264

Jupiter 92954-06-24 21:36 G 35671986.32 35671986.40 35671986.47 0.0512 0.0403

Earth 92956-11-23 12:43 G 35672869.01 35672869.03 35672869.05 0.2631 0.2572

Jupiter 92960-05-21 02:38 G 35674143.52 35674143.61 35674143.71 0.0512 0.0436

Mars 92960-12-24 16:19 G 35674361.13 35674361.18 35674361.24 0.1586 0.1392

Venus 92961-12-09 15:50 G 35674711.08 35674711.16 35674711.23 0.3624 0.2459

Mars 92962-11-29 17:02 G 35675066.10 35675066.21 35675066.33 0.1583 0.0044

Earth 92963-11-17 12:29 G 35675418.93 35675419.02 35675419.12 0.2634 0.1360

Moon 92963-11-17 12:58 G 35675418.94 35675419.04 35675419.13 0.2639 0.1314 *

Mars 92964-11-03 18:29 G 35675771.22 35675771.27 35675771.32 0.1584 0.1427

Jupiter 92966-01-13 22:05 G 35676207.35 35676207.42 35676207.48 0.0515 0.0430

Jupiter 92966-04-13 02:10 G 35676296.48 35676296.59 35676296.70 0.0513 0.0238

Moon 92967-05-23 03:22 G 35676701.49 35676701.64 35676701.79 0.2696 0.0421

Earth 92967-05-23 04:48 G 35676701.55 35676701.70 35676701.86 0.2700 0.0145 *

Venus 92967-06-25 06:29 G 35676734.67 35676734.77 35676734.87 0.3623 0.0494

Saturn 92967-08-15 17:17 G 35676786.04 35676786.22 35676786.40 0.0292 0.0088

Mars 92967-08-17 07:12 G 35676787.65 35676787.80 35676787.95 0.1955 0.0740

Saturn 92967-11-12 18:29 G 35676875.11 35676875.27 35676875.44 0.0293 0.0131

Mars 92972-04-21 04:48 G 35678496.59 35678496.70 35678496.82 0.1584 0.0349

Jupiter 92972-06-07 11:46 G 35678543.85 35678543.99 35678544.14 0.0513 0.0318

Venus 92973-01-07 21:22 G 35678758.30 35678758.39 35678758.48 0.3622 0.1489

Mars 92974-03-27 06:00 G 35679201.67 35679201.75 35679201.84 0.1584 0.1077

Earth 92976-11-19 06:00 G 35680169.64 35680169.75 35680169.87 0.2633 0.0113

Moon 92976-11-19 06:58 G 35680169.67 35680169.79 35680169.90 0.2634 0.0148 *

Mars 92977-01-05 23:31 G 35680217.32 35680217.48 35680217.63 0.1955 0.0569

Jupiter 92978-01-30 06:58 G 35680606.66 35680606.79 35680606.92 0.0513 0.0076

Uranus 92978-04-27 12:14 G 35680693.98 35680694.01 35680694.05 0.0143 0.0136

Venus 92978-07-24 12:14 G 35680781.98 35680782.01 35680782.03 0.3621 0.3463

Uranus 92978-07-24 15:50 G 35680782.08 35680782.16 35680782.24 0.0143 0.0114

Uranus 92978-10-20 19:26 G 35680870.21 35680870.31 35680870.41 0.0143 0.0093

Uranus 92979-01-16 23:02 G 35680958.34 35680958.46 35680958.57 0.0143 0.0071

Uranus 92979-04-15 02:24 G 35681046.48 35681046.60 35681046.73 0.0143 0.0049

Uranus 92979-07-12 06:00 G 35681134.62 35681134.75 35681134.88 0.0143 0.0027

Uranus 92979-10-08 09:36 G 35681222.77 35681222.90 35681223.03 0.0143 0.0005

Uranus 92980-01-04 13:12 G 35681310.92 35681311.05 35681311.18 0.0143 0.0018

Uranus 92980-04-01 16:48 G 35681399.07 35681399.20 35681399.33 0.0144 0.0040

Uranus 92980-06-28 20:24 G 35681487.23 35681487.35 35681487.47 0.0144 0.0063

Saturn 92980-09-24 10:48 G 35681574.86 35681574.95 35681575.04 0.0272 0.0192

Uranus 92980-09-25 00:00 G 35681575.40 35681575.50 35681575.61 0.0144 0.0085

Saturn 92980-12-21 21:07 G 35681663.25 35681663.38 35681663.50 0.0271 0.0073

Uranus 92980-12-22 03:36 G 35681663.57 35681663.65 35681663.74 0.0144 0.0108

Saturn 92981-03-20 07:12 G 35681751.67 35681751.80 35681751.93 0.0270 0.0046

Uranus 92981-03-20 07:12 G 35681751.76 35681751.80 35681751.86 0.0144 0.0131 *

Saturn 92981-06-16 17:31 G 35681840.13 35681840.23 35681840.33 0.0269 0.0164

Mars 92981-09-11 16:48 G 35681927.09 35681927.20 35681927.30 0.1584 0.0685

Mars 92983-08-17 17:46 G 35682632.14 35682632.24 35682632.35 0.1583 0.0725

Jupiter 92984-03-26 07:12 G 35682853.61 35682853.80 35682853.98 0.0513 0.0051

Pluto 92984-11-02 02:38 G 35683074.54 35683074.61 35683074.71 0.0083 0.0066

Pluto 92985-01-29 04:05 G 35683162.56 35683162.67 35683162.79 0.0083 0.0045

Pluto 92985-04-27 05:31 G 35683250.60 35683250.73 35683250.86 0.0083 0.0025

Pluto	**92985-07-24 06:43**	**G**	**35683338.65**	**35683338.78**	**35683338.92**	**0.0083**	**0.0006**	
Pluto	**92985-10-20 08:10**	**G**	**35683426.70**	**35683426.84**	**35683426.98**	**0.0083**	**0.0015**	
Pluto	**92986-01-16 09:22**	**G**	**35683514.77**	**35683514.89**	**35683515.02**	**0.0083**	**0.0035**	
Pluto	**92986-04-14 10:34**	**G**	**35683602.84**	**35683602.94**	**35683603.05**	**0.0083**	**0.0055**	
Mars	**92986-05-28 14:24**	**G**	**35683647.08**	**35683647.10**	**35683647.13**	**0.1954**	**0.1925**	
Pluto	**92986-07-11 11:46**	**G**	**35683690.94**	**35683690.99**	**35683691.06**	**0.0082**	**0.0075**	
Jupiter	**92989-11-18 11:31**	**G**	**35684916.86**	**35684916.98**	**35684917.11**	**0.0513**	**0.0090**	
Earth	**92989-11-21 23:46**	**G**	**35684920.40**	**35684920.49**	**35684920.58**	**0.2632**	**0.1439**	
Moon	**92989-11-22 00:14**	**G**	**35684920.42**	**35684920.51**	**35684920.60**	**0.2628**	**0.1571**	*
Mars	**92991-02-02 04:34**	**G**	**35685357.60**	**35685357.69**	**35685357.78**	**0.1585**	**0.1022**	
Mars	**92993-01-07 05:31**	**G**	**35686062.61**	**35686062.73**	**35686062.84**	**0.1583**	**0.0382**	
Jupiter	**92996-01-13 03:22**	**G**	**35687163.47**	**35687163.64**	**35687163.81**	**0.0512**	**0.0200**	
Moon	**92996-11-14 23:46**	**G**	**35687470.46**	**35687470.49**	**35687470.52**	**0.2642**	**0.2518**	
Earth	**92996-11-14 23:46**	**G**	**35687470.46**	**35687470.49**	**35687470.53**	**0.2635**	**0.2456**	*
Saturn	**92997-01-01 16:48**	**G**	**35687518.04**	**35687518.20**	**35687518.37**	**0.0291**	**0.0136**	
Saturn	**92997-03-31 18:29**	**G**	**35687607.09**	**35687607.27**	**35687607.45**	**0.0293**	**0.0084**	
Mars	**93000-06-25 16:19**	**G**	**35688788.13**	**35688788.18**	**35688788.24**	**0.1585**	**0.1362**	

94TH MILLENNIUM CE

This is a list of transits of Mercury in the 94th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**93001-09-07 15:36**	**G**	**35689227.04**	**35689227.15**	**35689227.26**	**0.0514**	**0.0271**	
Jupiter	**93001-12-05 19:41**	**G**	**35689316.24**	**35689316.32**	**35689316.40**	**0.0512**	**0.0395**	

Mars 93002-05-31 17:02 G 35689493.09 35689493.21 35689493.33 0.1583 0.0048

Mars 93004-05-05 18:29 G 35690198.23 35690198.27 35690198.32 0.1584 0.1465

Mars 93007-02-16 08:24 G 35691214.70 35691214.85 35691214.99 0.1955 0.0831

Jupiter 93007-11-01 23:46 G 35691473.41 35691473.49 35691473.58 0.0512 0.0447

Neptune 93009-04-14 22:34 G 35692003.38 35692003.44 35692003.54 0.0090 0.0082

Neptune 93009-07-12 02:24 G 35692091.50 35692091.60 35692091.73 0.0090 0.0071

Neptune 93009-10-08 06:00 G 35692179.62 35692179.75 35692179.91 0.0090 0.0060

Earth 93009-11-18 17:17 G 35692221.12 35692221.22 35692221.32 0.2634 0.1083

Moon 93009-11-18 17:46 G 35692221.14 35692221.24 35692221.34 0.2638 0.0985 *

Neptune 93010-01-04 09:50 G 35692267.76 35692267.91 35692268.08 0.0090 0.0049

Saturn 93010-02-12 14:24 G 35692307.03 35692307.10 35692307.18 0.0272 0.0217

Neptune 93010-04-02 13:26 G 35692355.90 35692356.06 35692356.25 0.0090 0.0038

Saturn 93010-05-12 00:43 G 35692395.41 35692395.53 35692395.65 0.0271 0.0097

Neptune 93010-06-29 17:17 G 35692444.04 35692444.22 35692444.41 0.0090 0.0027

Saturn 93010-08-08 11:02 G 35692483.83 35692483.96 35692484.09 0.0270 0.0022

Neptune 93010-09-25 20:53 G 35692532.19 35692532.37 35692532.57 0.0090 0.0016

Saturn 93010-11-04 21:07 G 35692572.27 35692572.38 35692572.50 0.0269 0.0140

Neptune 93010-12-23 00:43 G 35692620.34 35692620.53 35692620.72 0.0090 0.0005

Saturn 93011-02-01 07:12 G 35692660.77 35692660.80 35692660.84 0.0268 0.0257

Neptune 93011-03-21 04:19 G 35692708.49 35692708.68 35692708.87 0.0090 0.0006

Neptune 93011-06-17 07:41 G 35692796.64 35692796.82 35692797.02 0.0090 0.0018

Neptune 93011-09-13 11:31 G 35692884.80 35692884.98 35692885.16 0.0090 0.0028

Mars 93011-10-22 04:48 G 35692923.59 35692923.70 35692923.82 0.1583 0.0316

Neptune 93011-12-10 14:53 G 35692972.96 35692973.12 35692973.30 0.0090 0.0039

Neptune 93012-03-07 18:29 G 35693061.12 35693061.27 35693061.44 0.0090 0.0050

Neptune 93012-06-03 21:50 G 35693149.29 35693149.41 35693149.57 0.0090 0.0061

Neptune 93012-08-31 01:26 G 35693237.46 35693237.56 35693237.69 0.0090 0.0072

Neptune 93012-11-27 05:02 G 35693325.65 35693325.71 35693325.80 0.0090 0.0082

Moon 93013-05-24 09:50 G 35693503.76 35693503.91 35693504.07 0.2696 0.0297

Earth 93013-05-24 11:31 G 35693503.82 35693503.98 35693504.13 0.2700 0.0447 *

Jupiter 93013-06-26 19:55 G 35693537.27 35693537.33 35693537.39 0.0514 0.0442

Jupiter 93013-09-24 00:00 G 35693626.39 35693626.50 35693626.62 0.0512 0.0225

Mars 93013-09-26 06:00 G 35693628.67 35693628.75 35693628.84 0.1584 0.1111

Venus 93015-10-12 10:05 G 35694374.77 35694374.92 35694375.07 0.3750 0.1522

Mars 93016-07-08 00:00 G 35694644.34 35694644.50 35694644.66 0.1955 0.0499

Venus 93018-07-17 12:58 G 35695383.95 35695384.04 35695384.13 0.3624 0.1743

Uranus 93019-08-22 00:43 G 35695784.50 35695784.53 35695784.57 0.0135 0.0132

Uranus 93019-11-18 08:10 G 35695872.73 35695872.84 35695872.97 0.0135 0.0105

Jupiter 93019-11-19 08:53 G 35695873.72 35695873.87 35695874.02 0.0513 0.0304

Uranus 93020-02-14 15:22 G 35695960.99 35695961.14 35695961.31 0.0135 0.0078

Uranus 93020-05-12 22:48 G 35696049.28 35696049.45 35696049.64 0.0135 0.0051

Uranus 93020-08-09 06:14 G 35696137.57 35696137.76 35696137.95 0.0135 0.0024

Uranus 93020-11-05 13:26 G 35696225.87 35696226.06 35696226.26 0.0135 0.0005

Uranus 93021-02-01 20:38 G 35696314.18 35696314.36 35696314.55 0.0135 0.0031

Mars 93021-03-13 16:34 G 35696354.09 35696354.19 35696354.30 0.1584 0.0654

Uranus 93021-05-01 03:50 G 35696402.49 35696402.66 35696402.84 0.0135 0.0057

Uranus 93021-07-28 11:02 G 35696490.82 35696490.96 35696491.12 0.0135 0.0083

Uranus 93021-10-24 18:14 G 35696579.16 35696579.26 35696579.37 0.0135 0.0110

Earth 93022-11-21 11:02 G 35696971.84 35696971.96 35696972.07 0.2633 0.0328

Moon 93022-11-21 11:46 G 35696971.88 35696971.99 35696972.09 0.2634 0.0449 *

Mars 93023-02-16 17:46 G 35697059.13 35697059.24 35697059.34 0.1583 0.0757

Venus 93024-01-31 03:50 G 35697407.56 35697407.66 35697407.76 0.3622 0.0250

Jupiter 93025-07-13 04:34 G 35697936.57 35697936.69 35697936.82 0.0513 0.0059

Mars 93025-11-27 15:22 G 35698074.09 35698074.14 35698074.19 0.1954 0.1844

Saturn 93026-05-22 17:17 G 35698250.07 35698250.22 35698250.36 0.0292 0.0181

Saturn 93026-08-19 18:43 G 35698339.09 35698339.28 35698339.46 0.0293 0.0038

Saturn 93026-11-16 19:41 G 35698428.25 35698428.32 35698428.42 0.0294 0.0258

Venus 93029-08-15 18:29 G 35699431.19 35699431.27 35699431.35 0.3621 0.2200

Mars 93030-08-04 04:34 G 35699784.60 35699784.69 35699784.78 0.1585 0.0993

Jupiter 93031-09-07 04:34 G 35700183.51 35700183.69 35700183.88 0.0512 0.0046

Mars 93032-07-09 05:17 G 35700489.61 35700489.72 35700489.84 0.1583 0.0415

Earth 93035-11-24 04:34 G 35701722.61 35701722.69 35701722.77 0.2632 0.1722

Moon 93035-11-24 05:02 G 35701722.63 35701722.71 35701722.79 0.2627 0.1752 *

Jupiter 93037-05-01 09:36 G 35702246.77 35702246.90 35702247.02 0.0513 0.0104

Saturn 93039-07-02 17:46 G 35703039.19 35703039.24 35703039.30 0.0272 0.0244

Saturn 93039-09-29 04:05 G 35703127.56 35703127.67 35703127.79 0.0271 0.0124

Mars 93039-12-25 16:19 G 35703215.12 35703215.18 35703215.24 0.1585 0.1329

Saturn 93039-12-26 14:24 G 35703215.97 35703216.10 35703216.23 0.0270 0.0006

Saturn 93040-03-24 00:29 G 35703304.41 35703304.52 35703304.64 0.0269 0.0113

Saturn 93040-06-20 10:48 G 35703392.89 35703392.95 35703393.02 0.0268 0.0230

Mars 93041-11-29 17:02 G 35703920.09 35703920.21 35703920.33 0.1583 0.0070

Moon 93042-11-17 04:34 G 35704272.63 35704272.69 35704272.75 0.2641 0.2133

Earth 93042-11-17 04:34 G 35704272.63 35704272.69 35704272.75 0.2634 0.2181 *

Jupiter 93043-06-25 23:46 G 35704493.32 35704493.49 35704493.66 0.0512 0.0224

Mars 93043-11-04 18:29 G 35704625.24 35704625.27 35704625.31 0.1584 0.1498

Moon 93046-05-22 09:50 G 35705554.84 35705554.91 35705554.99 0.2694 0.2333

Earth 93046-05-22 11:02 G 35705554.86 35705554.96 35705555.05 0.2699 0.2138 *

Mars 93046-08-17 09:07 G 35705641.74 35705641.88 35705642.03 0.1955 0.0917

Jupiter 93049-02-17 14:10 G 35706556.98 35706557.09 35706557.20 0.0514 0.0267

Jupiter 93049-05-17 18:14 G 35706646.18 35706646.26 35706646.34 0.0512 0.0399

Mars 93051-04-22 04:48 G 35707350.59 35707350.70 35707350.82 0.1583 0.0284

Mars 93053-03-27 06:00 G 35708055.67 35708055.75 35708055.84 0.1584 0.1144

Jupiter 93055-04-13 20:10 G 35708803.27 35708803.34 35708803.40 0.0512 0.0473

Saturn 93055-10-09 16:34 G 35708982.09 35708982.19 35708982.31 0.0291 0.0229

Earth 93055-11-19 22:05 G 35709023.32 35709023.42 35709023.53 0.2633 0.0804

Moon 93055-11-19 22:48 G 35709023.34 35709023.45 35709023.55 0.2637 0.0762 *

Saturn 93056-01-06 18:14 G 35709071.07 35709071.26 35709071.45 0.0292 0.0011

Mars 93056-01-07 00:58 G 35709071.38 35709071.54 35709071.70 0.1955 0.0410 *

Saturn 93056-04-04 19:26 G 35709160.19 35709160.31 35709160.45 0.0293 0.0209

Moon 93059-05-25 16:34 G 35710306.04 35710306.19 35710306.34 0.2697 0.0788

Earth 93059-05-25 18:00 G 35710306.11 35710306.25 35710306.40 0.2700 0.1036 *

Mars 93060-09-11 16:34 G 35710781.09 35710781.19 35710781.30 0.1584 0.0623

Jupiter 93060-12-06 18:00 G 35710867.20 35710867.25 35710867.31 0.0514 0.0449

Jupiter 93061-03-05 22:19 G 35710956.31 35710956.43 35710956.54 0.0512 0.0218

Uranus 93062-05-18 19:26 G 35711395.26 35711395.31 35711395.36 0.0143 0.0131

Uranus 93062-08-14 23:02 G 35711483.38 35711483.46 35711483.54 0.0143 0.0109

Mars 93062-08-17 17:46 G 35711486.14 35711486.24 35711486.34 0.1583 0.0793

Uranus 93062-11-11 02:38 G 35711571.50 35711571.61 35711571.71 0.0143 0.0088

Uranus 93063-02-07 06:00 G 35711659.64 35711659.75 35711659.87 0.0143 0.0066

Uranus 93063-05-06 09:36 G 35711747.78 35711747.90 35711748.03 0.0143 0.0044

Uranus 93063-08-02 13:12 G 35711835.92 35711836.05 35711836.18 0.0143 0.0022

Uranus 93063-10-29 16:48 G 35711924.07 35711924.20 35711924.33 0.0143 0.0001

Uranus 93064-01-25 20:24 G 35712012.22 35712012.35 35712012.48 0.0143 0.0023

Uranus 93064-04-23 00:00 G 35712100.37 35712100.50 35712100.62 0.0143 0.0045

Uranus 93064-07-20 03:36 G 35712188.53 35712188.65 35712188.77 0.0144 0.0067

Uranus 93064-10-16 07:12 G 35712276.70 35712276.80 35712276.90 0.0144 0.0090

Uranus 93065-01-12 10:48 G 35712364.87 35712364.95 35712365.03 0.0144 0.0113

Uranus 93065-04-10 14:24 G 35712453.06 35712453.10 35712453.15 0.0144 0.0135

Mars 93065-05-28 16:19 G 35712501.11 35712501.18 35712501.25 0.1954 0.1757

Jupiter 93067-05-01 06:14 G 35713203.61 35713203.76 35713203.91 0.0513 0.0296

Saturn 93068-11-18 21:36 G 35713771.38 35713771.40 35713771.42 0.0272 0.0269

Earth 93068-11-21 15:50 G 35713774.05 35713774.16 35713774.26 0.2633 0.0602

Moon 93068-11-21 16:19 G 35713774.08 35713774.18 35713774.29 0.2632 0.0705 *

Saturn 93069-02-15 07:41 G 35713859.72 35713859.82 35713859.94 0.0271 0.0150

Saturn 93069-05-14 18:00 G 35713948.12 35713948.25 35713948.38 0.0270 0.0030

Venus 93069-08-07 19:26 G 35714033.25 35714033.31 35714033.36 0.3624 0.2996

Saturn 93069-08-11 04:19 G 35714036.55 35714036.68 35714036.80 0.0269 0.0089

Saturn 93069-11-07 14:24 G 35714125.02 35714125.10 35714125.18 0.0269 0.0206

Mars 93070-02-02 04:19 G 35714211.59 35714211.68 35714211.78 0.1585 0.0965

Mars 93072-01-08 05:17 G 35714916.61 35714916.72 35714916.84 0.1583 0.0442

Venus 93072-05-18 13:26 G 35715047.91 35715048.06 35715048.21 0.3751 0.1441

Jupiter 93072-12-23 02:38 G 35715266.48 35715266.61 35715266.74 0.0513 0.0047

Venus 93075-02-21 10:05 G 35716056.83 35716056.92 35716057.02 0.3623 0.1040

Jupiter 93079-02-17 01:55 G 35717513.39 35717513.58 35717513.76 0.0512 0.0037

Mars 93079-06-25 16:19 G 35717642.12 35717642.18 35717642.25 0.1585 0.1298

Venus 93080-09-06 00:58 G 35718080.44 35718080.54 35718080.64 0.3622 0.0938

Mars 93081-05-30 17:02 G 35718347.09 35718347.21 35718347.33 0.1583 0.0098

Earth 93081-11-24 09:22 G 35718524.82 35718524.89 35718524.96 0.2632 0.2007

Moon 93081-11-24 09:50 G 35718524.84 35718524.91 35718524.98 0.2626 0.2094 *

Mars 93083-05-05 18:29 G 35719052.24 35719052.27 35719052.30 0.1584 0.1528

Jupiter 93084-10-11 07:12 G 35719576.68 35719576.80 35719576.93 0.0514 0.0121

Saturn 93085-02-25 16:19 G 35719714.14 35719714.18 35719714.24 0.0291 0.0280

Saturn 93085-05-25 18:00 G 35719803.07 35719803.25 35719803.43 0.0292 0.0061

Saturn 93085-08-22 19:12 G 35719892.15 35719892.30 35719892.46 0.0294 0.0160

Mars 93086-02-15 09:50 G 35720068.76 35720068.91 35720069.05 0.1955 0.0985

Venus 93086-03-22 15:50 G 35720104.10 35720104.16 35720104.22 0.3621 0.2913

Earth 93088-11-17 09:22 G 35721074.82 35721074.89 35721074.97 0.2634 0.1903

Moon 93088-11-17 09:36 G 35721074.83 35721074.90 35721074.97 0.2640 0.1943 *

Neptune 93090-01-28 22:19 G 35721512.42 35721512.43 35721512.45 0.0088 0.0087

Neptune 93090-04-26 23:31 G 35721600.44 35721600.48 35721600.54 0.0088 0.0080

Neptune 93090-07-24 00:58 G 35721688.47 35721688.54 35721688.61 0.0088 0.0073

Neptune 93090-10-20 02:10 G 35721776.51 35721776.59 35721776.68 0.0088 0.0066

Mars 93090-10-21 04:48 G 35721777.59 35721777.70 35721777.82 0.1583 0.0249

Jupiter 93090-12-05 21:36 G 35721823.23 35721823.40 35721823.57 0.0512 0.0223

Neptune 93091-01-16 03:22 G 35721864.55 35721864.64 35721864.75 0.0088 0.0059

Neptune 93091-04-14 04:48 G 35721952.59 35721952.70 35721952.81 0.0088 0.0052

Neptune 93091-07-11 06:00 G 35722040.64 35722040.75 35722040.87 0.0088 0.0045

Neptune 93091-10-07 07:26 G 35722128.69 35722128.81 35722128.93 0.0088 0.0038

Neptune 93092-01-03 08:38 G 35722216.74 35722216.86 35722216.99 0.0088 0.0031

Neptune 93092-03-31 09:50 G 35722304.79 35722304.91 35722305.04 0.0088 0.0024

Moon 93092-05-22 16:34 G 35722357.06 35722357.19 35722357.31 0.2694 0.1619

Earth 93092-05-22 17:46 G 35722357.11 35722357.24 35722357.36 0.2699 0.1540 *

Neptune 93092-06-27 11:17 G 35722392.84 35722392.97 35722393.10 0.0088 0.0017

Neptune 93092-09-23 12:29 G 35722480.89 35722481.02 35722481.15 0.0088 0.0010

Mars 93092-09-25 06:00 G 35722482.68 35722482.75 35722482.83 0.1584 0.1180

Neptune 93092-12-20 13:41 G 35722568.94 35722569.07 35722569.21 0.0088 0.0004

Neptune 93093-03-18 15:07 G 35722656.99 35722657.13 35722657.26 0.0088 0.0005

Neptune 93093-06-14 16:19 G 35722745.05 35722745.18 35722745.32 0.0088 0.0012

Neptune 93093-09-10 17:31 G 35722833.11 35722833.23 35722833.37 0.0088 0.0019

Neptune 93093-12-07 18:58 G 35722921.16 35722921.29 35722921.42 0.0088 0.0026

Neptune 93094-03-05 20:10 G 35723009.22 35723009.34 35723009.47 0.0088 0.0033

Neptune 93094-06-01 21:36 G 35723097.28 35723097.40 35723097.52 0.0088 0.0040

Neptune 93094-08-28 22:34 G 35723185.34 35723185.44 35723185.57 0.0088 0.0048

Neptune 93094-11-25 00:00 G 35723273.41 35723273.50 35723273.62 0.0088 0.0055

Neptune 93095-02-21 01:12 G 35723361.47 35723361.55 35723361.66 0.0088 0.0062

Neptune 93095-05-20 02:38 G 35723449.54 35723449.61 35723449.70 0.0088 0.0069

Mars 93095-07-08 02:10 G 35723498.43 35723498.59 35723498.75 0.1955 0.0312

Neptune 93095-08-16 04:05 G 35723537.61 35723537.67 35723537.74 0.0088 0.0076

Neptune 93095-11-12 05:31 G 35723625.69 35723625.73 35723625.77 0.0088 0.0083

Jupiter 93096-07-30 12:14 G 35723886.90 35723887.01 35723887.11 0.0514 0.0281

Jupiter 93096-10-27 16:19 G 35723976.10 35723976.18 35723976.26 0.0512 0.0387

Saturn 93098-07-05 11:02 G 35724591.87 35724591.96 35724592.06 0.0271 0.0177

Saturn 93098-10-01 21:22 G 35724680.26 35724680.39 35724680.52 0.0270 0.0057

Saturn 93098-12-29 07:41 G 35724768.69 35724768.82 35724768.94 0.0269 0.0062

Saturn 93099-03-27 17:46 G 35724857.14 35724857.24 35724857.34 0.0268 0.0179

Mars 93100-03-13 16:34 G 35725208.08 35725208.19 35725208.30 0.1584 0.0590

Earth 93101-11-21 02:53 G 35725825.51 35725825.62 35725825.73 0.2633 0.0526

Moon 93101-11-21 03:36 G 35725825.54 35725825.65 35725825.76 0.2637 0.0375 *

Mars 93102-02-16 17:46 G 35725913.14 35725913.24 35725913.34 0.1583 0.0825

Jupiter 93102-09-24 16:34 G 35726133.15 35726133.19 35726133.24 0.0511 0.0492

Uranus 93103-09-12 08:38 G 35726485.79 35726485.86 35726485.96 0.0135 0.0122

Uranus 93103-12-09 16:05 G 35726574.05 35726574.17 35726574.32 0.0135 0.0095

Uranus 93104-03-06 23:46 G 35726662.32 35726662.49 35726662.66 0.0135 0.0067

Uranus 93104-06-03 06:58 G 35726750.61 35726750.79 35726750.98 0.0135 0.0040

Uranus 93104-08-30 14:24 G 35726838.91 35726839.10 35726839.29 0.0135 0.0013

Uranus 93104-11-26 21:36 G 35726927.21 35726927.40 35726927.59 0.0135 0.0014

Mars 93104-11-27 17:17 G 35726928.13 35726928.22 35726928.30 0.1954 0.1676

Uranus 93105-02-23 04:48 G 35727015.52 35727015.70 35727015.89 0.0135 0.0041

Uranus 93105-05-22 11:46 G 35727103.84 35727103.99 35727104.17 0.0135 0.0068

Moon 93105-05-26 23:02 G 35727108.33 35727108.46 35727108.59 0.2699 0.1387

Earth 93105-05-27 00:43 G 35727108.40 35727108.53 35727108.65 0.2700 0.1612 *

Uranus 93105-08-18 19:12 G 35727192.17 35727192.30 35727192.44 0.0135 0.0094

Uranus 93105-11-15 02:24 G 35727280.52 35727280.60 35727280.69 0.0135 0.0120

Jupiter 93108-05-19 16:48 G 35728197.14 35728197.20 35728197.26 0.0515 0.0444

Jupiter 93108-08-16 20:53 G 35728286.26 35728286.37 35728286.49 0.0512 0.0223

Mars 93109-08-04 04:34 G 35728638.59 35728638.69 35728638.78 0.1584 0.0929

Mars 93111-07-10 05:17 G 35729343.61 35729343.72 35729343.84 0.1583 0.0480

Jupiter 93114-10-12 02:38 G 35730533.46 35730533.61 35730533.77 0.0513 0.0274

Saturn 93114-10-13 16:48 G 35730535.03 35730535.20 35730535.38 0.0292 0.0115

Earth 93114-11-23 20:38 G 35730576.25 35730576.36 35730576.46 0.2632 0.0884

Moon 93114-11-23 21:07 G 35730576.28 35730576.38 35730576.49 0.2630 0.0947 *

Saturn 93115-01-10 18:14 G 35730624.09 35730624.26 35730624.44 0.0293 0.0105

Mars 93118-12-25 16:19 G 35732069.11 35732069.18 35732069.25 0.1585 0.1270

Jupiter 93120-06-05 00:58 G 35732596.41 35732596.54 35732596.67 0.0513 0.0042

Mars 93120-11-29 17:02 G 35732774.09 35732774.21 35732774.33 0.1583 0.0130

Mars 93122-11-04 18:29 G 35733479.26 35733479.27 35733479.29 0.1584 0.1567

Mars 93125-08-17 11:02 G 35734495.82 35734495.96 35734496.09 0.1955 0.1082

Venus 93126-03-15 16:34 G 35734706.12 35734706.19 35734706.27 0.3624 0.2282

Jupiter 93126-07-30 23:31 G 35734843.29 35734843.48 35734843.66 0.0513 0.0034

Saturn 93127-11-23 14:38 G 35735324.03 35735324.11 35735324.20 0.0272 0.0203

Earth 93127-11-26 14:10 G 35735327.04 35735327.09 35735327.14 0.2632 0.2294

Moon 93127-11-26 14:38 G 35735327.06 35735327.11 35735327.16 0.2626 0.2339 *

Saturn 93128-02-20 00:58 G 35735412.42 35735412.54 35735412.66 0.0271 0.0083

Saturn 93128-05-18 11:02 G 35735500.83 35735500.96 35735501.09 0.0270 0.0036

Saturn 93128-08-14 21:22 G 35735589.28 35735589.39 35735589.50 0.0269 0.0153

Mars 93130-04-22 04:48 G 35736204.58 35736204.70 35736204.82 0.1583 0.0217

Venus 93131-09-29 07:26 G 35736729.71 35736729.81 35736729.91 0.3623 0.0316

Jupiter 93132-03-24 05:17 G 35736906.60 35736906.72 35736906.85 0.0514 0.0129

Mars 93132-03-27 06:00 G 35736909.68 35736909.75 35736909.83 0.1583 0.1211

Earth 93134-11-19 14:10 G 35737877.01 35737877.09 35737877.18 0.2634 0.1630

Moon 93134-11-19 14:38 G 35737877.02 35737877.11 35737877.19 0.2640 0.1535 *

Mars 93135-01-07 02:24 G 35737925.44 35737925.60 35737925.77 0.1955 0.0259

Venus 93137-04-13 22:19 G 35738753.34 35738753.43 35738753.52 0.3622 0.1660

Pluto 93137-09-06 22:05 G 35738899.33 35738899.42 35738899.52 0.0061 0.0051

Pluto 93137-12-03 23:02 G 35738987.34 35738987.46 35738987.61 0.0061 0.0041

Pluto 93138-03-02 00:29 G 35739075.37 35739075.52 35739075.68 0.0061 0.0031

Jupiter 93138-05-18 19:12 G 35739153.13 35739153.30 35739153.47 0.0512 0.0225

Moon 93138-05-24 23:17 G 35739159.32 35739159.47 35739159.61 0.2694 0.1200

Earth 93138-05-25 00:14 G 35739159.37 35739159.51 35739159.66 0.2699 0.0943 *

Pluto 93138-05-29 01:26 G 35739163.40 35739163.56 35739163.74 0.0061 0.0020

Pluto 93138-08-25 02:53 G 35739251.44 35739251.62 35739251.80 0.0061 0.0009

Pluto 93138-11-21 04:05 G 35739339.48 35739339.67 35739339.85 0.0062 0.0001

Pluto 93139-02-17 05:02 G 35739427.54 35739427.71 35739427.90 0.0062 0.0012

Pluto 93139-05-16 06:00 G 35739515.59 35739515.75 35739515.93 0.0062 0.0023

Pluto 93139-08-12 07:26 G 35739603.66 35739603.81 35739603.97 0.0062 0.0033

Mars 93139-09-12 16:34 G 35739635.08 35739635.19 35739635.30 0.1584 0.0557

Pluto 93139-11-08 08:10 G 35739691.73 35739691.84 35739691.99 0.0062 0.0044

Pluto 93140-02-04 09:50 G 35739779.83 35739779.91 35739779.99 0.0062 0.0054

Mars 93141-08-17 17:46 G 35740340.14 35740340.24 35740340.34 0.1583 0.0858

Jupiter 93144-01-11 09:50 G 35741216.81 35741216.91 35741217.02 0.0514 0.0296

Saturn 93144-03-01 16:05 G 35741267.02 35741267.17 35741267.32 0.0292 0.0169

Jupiter 93144-04-09 14:10 G 35741306.00 35741306.09 35741306.17 0.0512 0.0372

Mars 93144-05-28 18:00 G 35741355.16 35741355.25 35741355.35 0.1954 0.1592

Saturn 93144-05-29 17:31 G 35741356.05 35741356.23 35741356.42 0.0293 0.0051

Saturn 93144-08-26 18:58 G 35741445.22 35741445.29 35741445.36 0.0294 0.0271

Uranus 93146-06-09 02:24 G 35742096.55 35742096.60 35742096.68 0.0143 0.0126

Uranus 93146-09-05 06:14 G 35742184.67 35742184.76 35742184.85 0.0143 0.0104

Uranus 93146-12-02 09:50 G 35742272.80 35742272.91 35742273.02 0.0143 0.0082

Uranus 93147-02-28 13:12 G 35742360.94 35742361.05 35742361.18 0.0143 0.0061

Uranus 93147-05-27 16:48 G 35742449.08 35742449.20 35742449.33 0.0143 0.0039

Uranus 93147-08-23 20:24 G 35742537.22 35742537.35 35742537.48 0.0143 0.0017

Uranus 93147-11-20 00:00 G 35742625.37 35742625.50 35742625.63 0.0143 0.0006

Earth 93147-11-22 07:41 G 35742627.71 35742627.82 35742627.93 0.2633 0.0252

Moon 93147-11-22 08:24 G 35742627.74 35742627.85 35742627.96 0.2636 0.0207 *

Uranus 93148-02-16 03:36 G 35742713.52 35742713.65 35742713.78 0.0143 0.0028

Uranus 93148-05-14 07:12 G 35742801.68 35742801.80 35742801.93 0.0143 0.0050

Uranus 93148-08-10 10:48 G 35742889.84 35742889.95 35742890.07 0.0144 0.0073

Uranus 93148-11-06 14:10 G 35742978.00 35742978.09 35742978.20 0.0144 0.0096

Mars 93149-02-02 04:19 G 35743065.59 35743065.68 35743065.78 0.1584 0.0900

Uranus 93149-02-02 18:00 G 35743066.18 35743066.25 35743066.33 0.0144 0.0118

Uranus 93149-05-01 21:36 G 35743154.38 35743154.40 35743154.43 0.0144 0.0140

Jupiter 93150-03-06 14:53 G 35743463.06 35743463.12 35743463.18 0.0511 0.0483

Mars 93151-01-08 05:17 G 35743770.61 35743770.72 35743770.83 0.1583 0.0510

Moon 93151-05-28 05:46 G 35743910.64 35743910.74 35743910.84 0.2701 0.2033

Earth 93151-05-28 07:26 G 35743910.72 35743910.81 35743910.89 0.2700 0.2203 *

Jupiter 93155-10-30 14:53 G 35745527.06 35745527.12 35745527.18 0.0515 0.0455

Jupiter 93156-01-27 18:58 G 35745616.18 35745616.29 35745616.41 0.0513 0.0213

Saturn 93157-04-11 18:00 G 35746056.18 35746056.25 35746056.31 0.0272 0.0232

Saturn 93157-07-09 04:05 G 35746144.55 35746144.67 35746144.79 0.0271 0.0112

Saturn 93157-10-05 14:24 G 35746232.97 35746233.10 35746233.23 0.0270 0.0008

Saturn 93158-01-02 00:29 G 35746321.41 35746321.52 35746321.64 0.0269 0.0124

Saturn 93158-03-31 10:48 G 35746409.89 35746409.95 35746410.00 0.0268 0.0241

Mars 93158-06-25 16:19 G 35746496.11 35746496.18 35746496.25 0.1585 0.1235

Mars 93160-05-30 17:02 G 35747201.09 35747201.21 35747201.33 0.1583 0.0162

Earth 93160-11-24 01:26 G 35747378.46 35747378.56 35747378.66 0.2632 0.1169

Moon 93160-11-24 01:55 G 35747378.49 35747378.58 35747378.68 0.2629 0.1309 *

Jupiter 93162-03-23 23:46 G 35747863.33 35747863.49 35747863.65 0.0513 0.0262

Mars 93165-02-15 11:46 G 35748922.85 35748922.99 35748923.12 0.1955 0.1160

Jupiter 93167-11-15 23:46 G 35749926.36 35749926.49 35749926.62 0.0513 0.0050

Mars 93167-11-16 04:05 G 35749926.66 35749926.67 35749926.68 0.1586 0.1574

Mars 93169-10-21 04:48 G 35750631.58 35750631.70 35750631.82 0.1583 0.0182

Mars 93171-09-26 06:00 G 35751336.68 35751336.75 35751336.83 0.1584 0.1246

Saturn 93173-07-19 13:55 G 35751998.97 35751999.08 35751999.20 0.0291 0.0231

Saturn 93173-10-16 15:36 G 35752087.96 35752088.15 35752088.33 0.0292 0.0012

Earth 93173-11-26 18:58 G 35752129.28 35752129.29 35752129.31 0.2631 0.2587

Moon 93173-11-26 19:26 G 35752129.30 35752129.31 35752129.31 0.2626 0.2612 *

Jupiter 93174-01-09 20:24 G 35752173.16 35752173.35 35752173.53 0.0512 0.0019

Neptune 93174-01-10 20:10 G 35752174.25 35752174.34 35752174.42 0.0090 0.0080

Saturn 93174-01-13 16:48 G 35752177.08 35752177.20 35752177.34 0.0293 0.0209

Neptune 93174-04-08 23:46 G 35752262.37 35752262.49 35752262.61 0.0090 0.0069

Neptune 93174-07-06 03:22 G 35752350.50 35752350.64 35752350.79 0.0090 0.0058

Mars 93174-07-08 03:36 G 35752352.49 35752352.65 35752352.82 0.1955 0.0156

Neptune 93174-10-02 06:58 G 35752438.63 35752438.79 35752438.96 0.0090 0.0047

Neptune 93174-12-29 10:48 G 35752526.78 35752526.95 35752527.13 0.0090 0.0036

Neptune 93175-03-27 14:24 G 35752614.92 35752615.10 35752615.29 0.0090 0.0025

Neptune 93175-06-23 18:14 G 35752703.07 35752703.26 35752703.45 0.0090 0.0014

Neptune 93175-09-19 21:50 G 35752791.22 35752791.41 35752791.60 0.0090 0.0003

Neptune 93175-12-17 01:26 G 35752879.37 35752879.56 35752879.75 0.0090 0.0008

Neptune 93176-03-14 05:02 G 35752967.52 35752967.71 35752967.90 0.0090 0.0019

Neptune 93176-06-10 08:38 G 35753055.68 35753055.86 35753056.04 0.0090 0.0030

Neptune 93176-09-06 12:00 G 35753143.84 35753144.00 35753144.18 0.0090 0.0041

Neptune 93176-12-03 15:36 G 35753232.01 35753232.15 35753232.32 0.0090 0.0052

Neptune 93177-03-01 18:58 G 35753320.18 35753320.29 35753320.45 0.0090 0.0063

Venus 93177-04-05 23:02 G 35753355.44 35753355.46 35753355.48 0.3625 0.3525

Neptune 93177-05-28 22:48 G 35753408.35 35753408.45 35753408.57 0.0090 0.0073

Neptune 93177-08-25 02:10 G 35753496.54 35753496.59 35753496.67 0.0090 0.0084

Mars 93179-03-13 16:34 G 35754062.08 35754062.19 35754062.30 0.1584 0.0527

Jupiter 93179-09-04 03:50 G 35754236.53 35754236.66 35754236.78 0.0514 0.0131

Venus 93180-01-15 06:00 G 35754369.62 35754369.75 35754369.89 0.3750 0.2003

Earth 93180-11-19 18:58 G 35754679.20 35754679.29 35754679.39 0.2634 0.1352

Moon 93180-11-19 19:26 G 35754679.22 35754679.31 35754679.40 0.2640 0.1346 *

Mars 93181-02-15 17:46 G 35754767.14 35754767.24 35754767.34 0.1583 0.0893

Venus 93182-10-20 13:55 G 35755378.99 35755379.08 35755379.17 0.3623 0.1562

Mars 93183-11-27 18:58 G 35755782.19 35755782.29 35755782.40 0.1954 0.1508

Moon 93184-05-25 05:46 G 35755961.58 35755961.74 35755961.89 0.2695 0.0429

Earth 93184-05-25 06:58 G 35755961.64 35755961.79 35755961.94 0.2699 0.0351 *

Jupiter 93185-10-28 17:02 G 35756483.05 35756483.21 35756483.38 0.0512 0.0223

Saturn 93186-08-29 21:07 G 35756788.35 35756788.38 35756788.42 0.0272 0.0262

Saturn 93186-11-26 07:26 G 35756876.70 35756876.81 35756876.92 0.0271 0.0142

Saturn 93187-02-22 17:46 G 35756965.11 35756965.24 35756965.37 0.0270 0.0024

Saturn 93187-05-22 03:50 G 35757053.54 35757053.66 35757053.78 0.0269 0.0095

Saturn 93187-08-18 13:55 G 35757142.01 35757142.08 35757142.16 0.0268 0.0213

Uranus 93187-10-02 16:34 G 35757187.09 35757187.19 35757187.31 0.0135 0.0113

Uranus 93187-12-30 00:00 G 35757275.36 35757275.50 35757275.66 0.0135 0.0085

Uranus 93188-03-27 07:26 G 35757363.64 35757363.81 35757363.99 0.0135 0.0058

Venus 93188-05-05 04:34 G 35757402.59 35757402.69 35757402.80 0.3622 0.0435

Uranus 93188-06-23 14:38 G 35757451.93 35757452.11 35757452.31 0.0135 0.0031

Mars 93188-08-03 04:19 G 35757492.59 35757492.68 35757492.78 0.1584 0.0868

Uranus 93188-09-19 22:05 G 35757540.23 35757540.42 35757540.62 0.0135 0.0005

Uranus 93188-12-17 05:17 G 35757628.54 35757628.72 35757628.92 0.0135 0.0024

Uranus 93189-03-15 12:43 G 35757716.85 35757717.03 35757717.21 0.0135 0.0050

Uranus 93189-06-11 19:41 G 35757805.17 35757805.32 35757805.49 0.0135 0.0077

Uranus 93189-09-08 03:07 G 35757893.51 35757893.63 35757893.75 0.0135 0.0103

Uranus 93189-12-05 09:50 G 35757981.88 35757981.91 35757981.98 0.0135 0.0130

Mars 93190-07-09 05:17 G 35758197.61 35758197.72 35758197.83 0.1583 0.0540

Jupiter 93191-06-23 08:24 G 35758546.74 35758546.85 35758546.95 0.0514 0.0299

Jupiter 93191-09-20 12:29 G 35758635.93 35758636.02 35758636.11 0.0512 0.0367

Venus 93193-11-18 19:26 G 35759426.24 35759426.31 35759426.39 0.3621 0.2376

Earth 93193-11-22 12:29 G 35759429.91 35759430.02 35759430.13 0.2633 0.0079

Moon 93193-11-22 13:12 G 35759429.94 35759430.05 35759430.16 0.2635 0.0198 *

Moon 93197-05-28 12:14 G 35760712.95 35760713.01 35760713.07 0.2702 0.2469

Jupiter 93197-08-16 13:12 G 35760792.98 35760793.05 35760793.11 0.0511 0.0477

Mars 93197-12-24 16:19 G 35760923.10 35760923.18 35760923.25 0.1585 0.1206

Mars 93199-11-29 17:02 G 35761628.09 35761628.21 35761628.33 0.1583 0.0195

Saturn 93203-03-05 13:41 G 35762819.89 35762820.07 35762820.26 0.0292 0.0075

Jupiter 93203-04-11 12:58 G 35762856.99 35762857.04 35762857.09 0.0515 0.0465

Saturn 93203-06-02 15:07 G 35762908.98 35762909.13 35762909.30 0.0294 0.0147

Jupiter 93203-07-09 17:02 G 35762946.10 35762946.21 35762946.33 0.0513 0.0202

Mars 93204-08-16 12:29 G 35763349.89 35763350.02 35763350.14 0.1955 0.1237

Earth 93206-11-25 06:14 G 35764180.66 35764180.76 35764180.85 0.2632 0.1451

Moon 93206-11-25 06:43 G 35764180.69 35764180.78 35764180.88 0.2629 0.1485 *

Mars 93207-05-17 04:05 G 35764353.65 35764353.67 35764353.69 0.1586 0.1543

Mars 93209-04-21 04:48 G 35765058.58 35765058.70 35765058.82 0.1583 0.0150

Jupiter 93209-09-02 22:34 G 35765193.28 35765193.44 35765193.59 0.0513 0.0278

Mars 93211-03-27 06:00 G 35765763.69 35765763.75 35765763.82 0.1584 0.1280

Earth 93213-11-18 06:14 G 35766730.72 35766730.76 35766730.80 0.2635 0.2453

Moon 93213-11-18 06:14 G 35766730.73 35766730.76 35766730.79 0.2641 0.2480 *

Mars 93214-01-06 04:34 G 35766779.53 35766779.69 35766779.86 0.1955 0.0087

Jupiter 93215-04-27 22:05 G 35767256.29 35767256.42 35767256.54 0.0513 0.0045

Saturn 93216-04-14 10:19 G 35767608.83 35767608.93 35767609.03 0.0271 0.0174

Saturn 93216-07-11 20:38 G 35767697.23 35767697.36 35767697.49 0.0270 0.0055

Saturn 93216-10-08 06:43 G 35767785.65 35767785.78 35767785.91 0.0269 0.0064

Saturn 93217-01-04 16:48 G 35767874.11 35767874.20 35767874.30 0.0268 0.0181

Mars 93218-09-11 16:34 G 35768489.08 35768489.19 35768489.30 0.1584 0.0493

Mars 93220-08-16 17:46 G 35769194.14 35769194.24 35769194.33 0.1583 0.0926

Jupiter 93221-06-21 18:00 G 35769503.06 35769503.25 35769503.44 0.0512 0.0015

Mars 93223-05-28 19:55 G 35770209.22 35770209.33 35770209.44 0.1954 0.1423

Earth 93226-11-20 23:46 G 35771481.39 35771481.49 35771481.59 0.2634 0.1076

Moon 93226-11-21 00:14 G 35771481.41 35771481.51 35771481.61 0.2639 0.0968 *

Jupiter 93227-02-14 02:53 G 35771566.50 35771566.62 35771566.74 0.0514 0.0117

Mars 93228-02-02 04:19 G 35771919.58 35771919.68 35771919.78 0.1584 0.0835

Mars 93230-01-07 05:17 G 35772624.61 35772624.72 35772624.83 0.1583 0.0578

Uranus 93230-04-02 06:29 G 35772709.76 35772709.77 35772709.80 0.0143 0.0141

Moon 93230-05-26 12:14 G 35772763.85 35772764.01 35772764.16 0.2697 0.0101

Earth 93230-05-26 13:41 G 35772763.91 35772764.07 35772764.22 0.2700 0.0245 *

Uranus 93230-06-29 10:05 G 35772797.85 35772797.92 35772798.00 0.0143 0.0119

Pluto 93230-07-04 17:31 G 35772803.17 35772803.23 35772803.32 0.0083 0.0071

Uranus 93230-09-25 13:26 G 35772885.98 35772886.06 35772886.17 0.0143 0.0098

Pluto 93230-09-30 18:58 G 35772891.19 35772891.29 35772891.41 0.0083 0.0050

Uranus 93230-12-22 17:02 G 35772974.11 35772974.21 35772974.33 0.0143 0.0076

Pluto 93230-12-27 20:24 G 35772979.23 35772979.35 35772979.49 0.0083 0.0030

Uranus 93231-03-20 20:38 G 35773062.24 35773062.36 35773062.49 0.0143 0.0054

Pluto 93231-03-25 21:50 G 35773067.27 35773067.41 35773067.55 0.0083 0.0010

Uranus 93231-06-17 00:14 G 35773150.38 35773150.51 35773150.64 0.0143 0.0032

Pluto 93231-06-21 23:02 G 35773155.33 35773155.46 35773155.60 0.0083 0.0011

Uranus 93231-09-13 03:50 G 35773238.53 35773238.66 35773238.79 0.0143 0.0010

Pluto 93231-09-18 00:29 G 35773243.39 35773243.52 35773243.65 0.0083 0.0030

Uranus 93231-12-10 07:26 G 35773326.68 35773326.81 35773326.94 0.0143 0.0012

Pluto 93231-12-15 01:41 G 35773331.46 35773331.57 35773331.68 0.0083 0.0050

Uranus 93232-03-07 11:02 G 35773414.83 35773414.96 35773415.09 0.0143 0.0034

Pluto 93232-03-12 02:53 G 35773419.55 35773419.62 35773419.70 0.0082 0.0070

Uranus 93232-06-03 14:38 G 35773502.99 35773503.11 35773503.23 0.0143 0.0056

Saturn 93232-07-22 10:48 G 35773551.79 35773551.95 35773552.12 0.0292 0.0144

Uranus 93232-08-30 18:14 G 35773591.15 35773591.26 35773591.37 0.0143 0.0079

Saturn 93232-10-19 12:29 G 35773640.84 35773641.02 35773641.20 0.0293 0.0077

Uranus 93232-11-26 21:50 G 35773679.32 35773679.41 35773679.50 0.0143 0.0101

Uranus 93233-02-23 01:12 G 35773767.49 35773767.55 35773767.63 0.0144 0.0124

Jupiter 93233-04-09 14:38 G 35773812.94 35773813.11 35773813.28 0.0512 0.0229

Venus 93233-11-10 20:24 G 35774028.29 35774028.35 35774028.41 0.3624 0.2808

Venus 93236-08-21 09:36 G 35775042.74 35775042.90 35775043.05 0.3751 0.0972

Mars 93237-06-24 16:05 G 35775350.10 35775350.17 35775350.25 0.1585 0.1178

Jupiter 93238-12-03 06:58 G 35775876.69 35775876.79 35775876.89 0.0514 0.0295

Jupiter 93239-03-02 11:02 G 35775965.88 35775965.96 35775966.05 0.0512 0.0370

Venus 93239-05-27 11:02 G 35776051.87 35776051.96 35776052.06 0.3623 0.0856

Mars 93239-05-30 17:02 G 35776055.09 35776055.21 35776055.33 0.1583 0.0228

Earth 93239-11-23 17:17 G 35776232.11 35776232.22 35776232.33 0.2633 0.0324

Moon 93239-11-23 18:00 G 35776232.14 35776232.25 35776232.36 0.2633 0.0369 *

Mars 93244-02-15 13:26 G 35777776.94 35777777.06 35777777.18 0.1955 0.1323

Venus 93244-12-10 01:55 G 35778075.48 35778075.58 35778075.68 0.3622 0.1120

Jupiter 93245-01-26 11:17 G 35778122.91 35778122.97 35778123.05 0.0512 0.0468

Saturn 93245-09-01 13:12 G 35778340.98 35778341.05 35778341.14 0.0272 0.0207

Saturn 93245-11-28 23:31 G 35778429.36 35778429.48 35778429.61 0.0271 0.0087

Saturn 93246-02-25 09:50 G 35778517.78 35778517.91 35778518.04 0.0270 0.0033

Saturn 93246-05-24 19:55 G 35778606.22 35778606.33 35778606.44 0.0269 0.0149

Saturn 93246-08-21 06:00 G 35778694.74 35778694.75 35778694.76 0.0268 0.0266

Mars 93246-11-15 04:05 G 35778780.64 35778780.67 35778780.70 0.1586 0.1512

Mars 93248-10-20 04:48 G 35779485.58 35779485.70 35779485.82 0.1583 0.0124

Venus 93250-06-25 16:48 G 35780099.15 35780099.20 35780099.25 0.3621 0.3091

Jupiter 93250-09-21 11:31 G 35780186.93 35780186.98 35780187.04 0.0515 0.0461

Mars 93250-09-25 06:00 G 35780190.69 35780190.75 35780190.82 0.1583 0.1313

Jupiter 93250-12-19 15:36 G 35780276.04 35780276.15 35780276.27 0.0513 0.0204

Earth 93252-11-25 11:02 G 35780982.87 35780982.96 35780983.04 0.2632 0.1734

Moon 93252-11-25 11:31 G 35780982.90 35780982.98 35780983.06 0.2628 0.1876 *

Mars 93253-07-07 05:17 G 35781206.55 35781206.72 35781206.88 0.1955 0.0047

Neptune 93254-10-26 21:36 G 35781683.38 35781683.40 35781683.44 0.0088 0.0085

Neptune 93255-01-22 23:02 G 35781771.40 35781771.46 35781771.52 0.0088 0.0078

Neptune 93255-04-21 00:14 G 35781859.44 35781859.51 35781859.59 0.0088 0.0071

Neptune 93255-07-18 01:12 G 35781947.48 35781947.55 35781947.65 0.0088 0.0065

Neptune 93255-10-14 02:53 G 35782035.52 35782035.62 35782035.72 0.0088 0.0057

Neptune 93256-01-10 03:50 G 35782123.56 35782123.66 35782123.78 0.0088 0.0051

Neptune 93256-04-07 05:02 G 35782211.61 35782211.71 35782211.84 0.0088 0.0044

Neptune 93256-07-04 06:29 G 35782299.66 35782299.77 35782299.90 0.0088 0.0036

Neptune 93256-09-30 07:55 G 35782387.71 35782387.83 35782387.96 0.0088 0.0029

Neptune 93256-12-27 09:07 G 35782475.76 35782475.88 35782476.01 0.0088 0.0022

Jupiter 93257-02-12 21:07 G 35782523.23 35782523.38 35782523.53 0.0513 0.0294

Neptune 93257-03-25 10:19 G 35782563.81 35782563.93 35782564.07 0.0088 0.0016

Neptune 93257-06-21 11:46 G 35782651.86 35782651.99 35782652.12 0.0088 0.0008

Neptune 93257-09-17 12:58 G 35782739.91 35782740.04 35782740.18 0.0088 0.0003

Neptune 93257-12-14 14:24 G 35782827.97 35782828.10 35782828.23 0.0088 0.0006

Neptune 93258-03-12 15:36 G 35782916.02 35782916.15 35782916.28 0.0088 0.0013

Mars 93258-03-12 16:34 G 35782916.08 35782916.19 35782916.30 0.1584 0.0461 *

Neptune 93258-06-08 16:48 G 35783004.08 35783004.20 35783004.34 0.0088 0.0021

Neptune 93258-09-04 18:00 G 35783092.13 35783092.25 35783092.39 0.0088 0.0028

Neptune 93258-12-01 19:26 G 35783180.19 35783180.31 35783180.44 0.0088 0.0035

Neptune 93259-02-27 20:38 G 35783268.25 35783268.36 35783268.49 0.0088 0.0042

Neptune 93259-05-26 22:05 G 35783356.31 35783356.42 35783356.54 0.0088 0.0049

Neptune 93259-08-22 23:17 G 35783444.38 35783444.47 35783444.58 0.0088 0.0056

Neptune 93259-11-19 00:43 G 35783532.44 35783532.53 35783532.63 0.0088 0.0063

Earth 93259-11-19 11:02 G 35783532.90 35783532.96 35783533.02 0.2635 0.2178

Moon 93259-11-19 11:17 G 35783532.91 35783532.97 35783533.03 0.2641 0.2182 *

Neptune 93260-02-15 02:10 G 35783620.51 35783620.59 35783620.67 0.0088 0.0070

Mars 93260-02-15 17:46 G 35783621.14 35783621.24 35783621.33 0.1583 0.0959

Neptune 93260-05-13 03:07 G 35783708.58 35783708.63 35783708.71 0.0088 0.0078

Neptune 93260-08-09 04:34 G 35783796.67 35783796.69 35783796.73 0.0088 0.0085

Saturn 93261-12-09 08:10 G 35784283.72 35784283.84 35784283.97 0.0292 0.0214

Saturn 93262-03-08 09:50 G 35784372.72 35784372.91 35784373.09 0.0293 0.0008

Saturn 93262-06-05 11:17 G 35784461.85 35784461.97 35784462.08 0.0294 0.0227

Jupiter 93262-10-07 20:24 G 35784586.22 35784586.35 35784586.47 0.0513 0.0043

Mars 93262-11-26 20:53 G 35784636.25 35784636.37 35784636.49 0.1955 0.1338

Moon 93263-05-24 12:14 G 35784814.96 35784815.01 35784815.06 0.2692 0.2530

Earth 93263-05-24 12:58 G 35784814.97 35784815.04 35784815.12 0.2699 0.2359 *

Mars 93267-08-03 04:19 G 35786346.58 35786346.68 35786346.78 0.1584 0.0804

Jupiter 93268-12-01 17:17 G 35786833.03 35786833.22 35786833.40 0.0512 0.0040

Mars 93269-07-08 05:17 G 35787051.61 35787051.72 35787051.83 0.1583 0.0609

Uranus 93271-07-26 16:19 G 35787800.16 35787800.18 35787800.24 0.0135 0.0133

Uranus 93271-10-23 00:00 G 35787888.39 35787888.50 35787888.63 0.0135 0.0105

Uranus 93272-01-19 07:26 G 35787976.66 35787976.81 35787976.97 0.0135 0.0077

Uranus 93272-04-16 14:53 G 35788064.94 35788065.12 35788065.30 0.0135 0.0050

Uranus 93272-07-13 22:05 G 35788153.24 35788153.42 35788153.62 0.0135 0.0024

Uranus 93272-10-10 05:31 G 35788241.54 35788241.73 35788241.93 0.0135 0.0005

Earth 93272-11-21 04:34 G 35788283.59 35788283.69 35788283.80 0.2634 0.0794

Moon 93272-11-21 05:02 G 35788283.61 35788283.71 35788283.82 0.2638 0.0753 *

Uranus 93273-01-06 12:58 G 35788329.85 35788330.04 35788330.22 0.0135 0.0031

Uranus 93273-04-04 19:55 G 35788418.17 35788418.33 35788418.51 0.0135 0.0058

Uranus 93273-07-02 03:07 G 35788506.49 35788506.63 35788506.79 0.0135 0.0085

Uranus 93273-09-28 10:34 G 35788594.83 35788594.94 35788595.04 0.0135 0.0111

Jupiter 93274-07-27 01:12 G 35788896.43 35788896.55 35788896.68 0.0514 0.0119

Saturn 93275-01-19 15:50 G 35789073.11 35789073.16 35789073.22 0.0272 0.0243

Saturn 93275-04-18 02:10 G 35789161.47 35789161.59 35789161.70 0.0271 0.0123

Saturn 93275-07-15 12:14 G 35789249.88 35789250.01 35789250.14 0.0270 0.0007

Saturn 93275-10-11 22:34 G 35789338.32 35789338.44 35789338.56 0.0269 0.0114

Saturn 93276-01-08 08:38 G 35789426.80 35789426.86 35789426.93 0.0268 0.0231

Moon 93276-05-26 18:29 G 35789566.12 35789566.27 35789566.42 0.2698 0.0704

Earth 93276-05-26 20:10 G 35789566.20 35789566.34 35789566.49 0.2700 0.0830 *

Mars 93276-12-23 16:19 G 35789777.10 35789777.18 35789777.26 0.1585 0.1143

Mars 93278-11-28 17:02 G 35790482.09 35790482.21 35790482.33 0.1583 0.0261

Jupiter 93280-09-19 12:43 G 35791142.87 35791143.03 35791143.20 0.0512 0.0221

Mars 93283-08-16 14:10 G 35792203.98 35792204.09 35792204.21 0.1955 0.1411

Earth 93285-11-23 22:05 G 35793034.31 35793034.42 35793034.53 0.2633 0.0603

Moon 93285-11-23 22:48 G 35793034.35 35793034.45 35793034.56 0.2632 0.0761 *

Jupiter 93286-05-15 06:14 G 35793206.65 35793206.76 35793206.86 0.0514 0.0278

Mars 93286-05-16 04:05 G 35793207.63 35793207.67 35793207.71 0.1586 0.1483

Jupiter 93286-08-12 10:19 G 35793295.85 35793295.93 35793296.01 0.0512 0.0389

Mars 93288-04-20 04:48 G 35793912.58 35793912.70 35793912.82 0.1583 0.0084

Mars 93290-03-26 06:00 G 35794617.69 35794617.75 35794617.81 0.1583 0.1349

Venus 93290-06-17 17:31 G 35794701.15 35794701.23 35794701.31 0.3624 0.2092

Saturn 93291-07-26 05:46 G 35795104.56 35795104.74 35795104.92 0.0292 0.0072

Saturn 93291-10-23 07:12 G 35795193.64 35795193.80 35795193.96 0.0293 0.0148

Jupiter 93292-07-08 09:36 G 35795452.82 35795452.90 35795452.98 0.0511 0.0463

Mars 93293-01-05 06:14 G 35795633.59 35795633.76 35795633.92 0.1955 0.0096

Venus 93296-01-01 08:24 G 35796724.75 35796724.85 35796724.95 0.3623 0.0140

Mars 93297-09-10 16:34 G 35797343.07 35797343.19 35797343.30 0.1583 0.0433

Jupiter 93298-03-03 10:19 G 35797516.88 35797516.93 35797516.99 0.0514 0.0453

Jupiter 93298-05-31 14:24 G 35797605.99 35797606.10 35797606.22 0.0513 0.0213

Earth 93298-11-26 15:50 G 35797785.09 35797785.16 35797785.23 0.2632 0.2019

Moon 93298-11-26 16:19 G 35797785.11 35797785.18 35797785.25 0.2627 0.2025 *

Mars 93299-08-16 17:46 G 35798048.15 35798048.24 35798048.33 0.1583 0.0995

Venus 93301-07-17 23:02 G 35798748.38 35798748.46 35798748.55 0.3622 0.1839

Mars 93302-05-28 21:50 G 35799063.28 35799063.41 35799063.53 0.1954 0.1257

Jupiter 93304-07-26 20:10 G 35799853.19 35799853.34 35799853.48 0.0513 0.0312

Saturn 93304-09-05 04:48 G 35799893.60 35799893.70 35799893.81 0.0272 0.0160

Saturn 93304-12-02 14:53 G 35799982.00 35799982.12 35799982.26 0.0271 0.0042

Saturn 93305-03-01 01:12 G 35800070.42 35800070.55 35800070.68 0.0270 0.0078

Saturn 93305-05-28 11:17 G 35800158.89 35800158.97 35800159.06 0.0269 0.0196

Moon 93305-11-20 16:05 G 35800335.09 35800335.17 35800335.25 0.2641 0.1853

Earth 93305-11-20 15:50 G 35800335.09 35800335.16 35800335.24 0.2635 0.1902 *

Mars 93307-02-02 04:19 G 35800773.58 35800773.68 35800773.78 0.1584 0.0773

Mars 93309-01-07 05:17 G 35801478.61 35801478.72 35801478.83 0.1583 0.0640

Moon 93309-05-25 18:43 G 35801617.17 35801617.28 35801617.39 0.2693 0.1859

Earth 93309-05-25 19:41 G 35801617.21 35801617.32 35801617.44 0.2699 0.1758 *

Jupiter 93310-03-20 19:12 G 35801916.17 35801916.30 35801916.42 0.0513 0.0048

Uranus 93314-04-23 14:38 G 35803411.06 35803411.11 35803411.16 0.0143 0.0132

Uranus 93314-07-20 18:00 G 35803499.17 35803499.25 35803499.34 0.0143 0.0111

Uranus 93314-10-16 21:36 G 35803587.30 35803587.40 35803587.50 0.0143 0.0089

Uranus 93315-01-13 01:12 G 35803675.43 35803675.55 35803675.66 0.0143 0.0067

Uranus 93315-04-11 04:34 G 35803763.57 35803763.69 35803763.82 0.0143 0.0046

Uranus 93315-07-08 08:10 G 35803851.71 35803851.84 35803851.97 0.0143 0.0024

Uranus 93315-10-04 11:46 G 35803939.86 35803939.99 35803940.12 0.0143 0.0002

Uranus 93315-12-31 15:22 G 35804028.01 35804028.14 35804028.27 0.0143 0.0021

Uranus 93316-03-28 18:58 G 35804116.16 35804116.29 35804116.41 0.0143 0.0043

Jupiter 93316-05-14 16:34 G 35804163.00 35804163.19 35804163.37 0.0512 0.0064

Mars 93316-06-24 16:05 G 35804204.09 35804204.17 35804204.26 0.1585 0.1113

Uranus 93316-06-24 22:19 G 35804204.32 35804204.43 35804204.56 0.0143 0.0065

Uranus 93316-09-21 01:55 G 35804292.48 35804292.58 35804292.69 0.0143 0.0088

Uranus 93316-12-18 05:46 G 35804380.66 35804380.74 35804380.82 0.0143 0.0109

Uranus 93317-03-16 09:22 G 35804468.84 35804468.89 35804468.94 0.0143 0.0132

Mars 93318-05-30 17:02 G 35804909.09 35804909.21 35804909.32 0.1583 0.0295

Earth 93318-11-23 09:22 G 35805085.78 35805085.89 35805086.00 0.2634 0.0516

Moon 93318-11-23 09:50 G 35805085.81 35805085.91 35805086.02 0.2637 0.0444 *

Saturn 93320-12-13 02:24 G 35805836.44 35805836.60 35805836.76 0.0292 0.0149

Saturn 93321-03-12 03:50 G 35805925.48 35805925.66 35805925.84 0.0293 0.0072

Saturn 93321-06-09 05:17 G 35806014.71 35806014.72 35806014.74 0.0294 0.0292

Jupiter 93322-01-06 23:46 G 35806226.37 35806226.49 35806226.62 0.0514 0.0117

Moon 93322-05-29 01:12 G 35806368.41 35806368.55 35806368.69 0.2699 0.1104

Earth 93322-05-29 02:53 G 35806368.49 35806368.62 35806368.75 0.2700 0.1436 *

Mars 93323-02-15 14:53 G 35806631.01 35806631.12 35806631.22 0.1956 0.1481

Mars 93325-11-15 04:05 G 35807634.62 35807634.67 35807634.71 0.1586 0.1451

Mars 93327-10-21 04:48 G 35808339.58 35808339.70 35808339.82 0.1583 0.0063

Jupiter 93328-03-02 12:29 G 35808472.85 35808473.02 35808473.20 0.0512 0.0189

Mars 93329-09-25 06:00 G 35809044.70 35809044.75 35809044.81 0.1583 0.1383

Earth 93331-11-26 02:53 G 35809836.52 35809836.62 35809836.73 0.2633 0.0888

Moon 93331-11-26 03:36 G 35809836.55 35809836.65 35809836.76 0.2632 0.0955 *

Mars 93332-07-07 07:26 G 35810060.64 35810060.81 35810060.97 0.1955 0.0194

Jupiter 93333-10-26 04:48 G 35810536.59 35810536.70 35810536.81 0.0514 0.0275

Saturn 93334-01-23 07:12 G 35810625.71 35810625.80 35810625.89 0.0271 0.0199

Jupiter 93334-01-23 09:07 G 35810625.80 35810625.88 35810625.96 0.0512 0.0393 *

Saturn 93334-04-21 17:17 G 35810714.10 35810714.22 35810714.35 0.0270 0.0079

Saturn 93334-07-19 03:36 G 35810802.52 35810802.65 35810802.78 0.0269 0.0040

Saturn 93334-10-15 13:41 G 35810890.96 35810891.07 35810891.18 0.0268 0.0157

Mars 93337-03-12 16:34 G 35811770.07 35811770.19 35811770.30 0.1583 0.0399

Neptune 93338-07-12 13:12 G 35812257.05 35812257.05 35812257.09 0.0090 0.0090

Neptune 93338-10-08 17:17 G 35812345.13 35812345.22 35812345.32 0.0090 0.0078

Neptune 93339-01-04 21:07 G 35812433.25 35812433.38 35812433.51 0.0090 0.0067

Mars 93339-02-15 17:46 G 35812475.15 35812475.24 35812475.33 0.1583 0.1028

Neptune 93339-04-03 00:43 G 35812521.38 35812521.53 35812521.68 0.0090 0.0056

Neptune 93339-06-30 04:19 G 35812609.52 35812609.68 35812609.85 0.0090 0.0045

Neptune 93339-09-26 08:10 G 35812697.66 35812697.84 35812698.02 0.0090 0.0034

Jupiter 93339-12-20 08:24 G 35812782.76 35812782.85 35812782.94 0.0511 0.0446

Neptune 93339-12-23 11:46 G 35812785.80 35812785.99 35812786.18 0.0090 0.0023

Neptune 93340-03-20 15:22 G 35812873.95 35812874.14 35812874.34 0.0090 0.0012

Neptune 93340-06-16 18:58 G 35812962.10 35812962.29 35812962.49 0.0090 0.0003

Neptune 93340-09-12 22:48 G 35813050.26 35813050.45 35813050.64 0.0090 0.0010

Neptune 93340-12-10 02:10 G 35813138.41 35813138.59 35813138.79 0.0090 0.0021

Neptune 93341-03-08 05:46 G 35813226.57 35813226.74 35813226.93 0.0090 0.0032

Neptune 93341-06-04 09:22 G 35813314.73 35813314.89 35813315.07 0.0090 0.0043

Venus 93341-07-10 00:00 G 35813350.46 35813350.50 35813350.54 0.3625 0.3339

Neptune 93341-08-31 12:43 G 35813402.90 35813403.03 35813403.20 0.0090 0.0054

Mars 93341-11-26 22:34 G 35813490.31 35813490.44 35813490.57 0.1954 0.1174

Neptune 93341-11-27 16:19 G 35813491.07 35813491.18 35813491.33 0.0090 0.0065

Neptune 93342-02-23 20:10 G 35813579.25 35813579.34 35813579.45 0.0090 0.0075

Neptune 93342-05-22 23:31 G 35813667.45 35813667.48 35813667.55 0.0090 0.0086

Venus 93344-04-19 02:10 G 35814364.47 35814364.59 35814364.71 0.3750 0.2473

Earth 93344-11-27 20:38 G 35814587.31 35814587.36 35814587.41 0.2632 0.2307

Moon 93344-11-27 20:53 G 35814587.33 35814587.37 35814587.42 0.2626 0.2402 *

Jupiter 93345-08-14 09:50 G 35814846.84 35814846.91 35814846.98 0.0515 0.0432

Jupiter 93345-11-11 13:55 G 35814935.97 35814936.08 35814936.20 0.0513 0.0235

Mars 93346-08-03 04:19 G 35815200.58 35815200.68 35815200.78 0.1584 0.0739

Venus 93347-01-23 14:53 G 35815374.02 35815374.12 35815374.21 0.3624 0.1382

Mars 93348-07-08 05:17 G 35815905.61 35815905.72 35815905.83 0.1583 0.0677

Saturn 93350-05-01 21:36 G 35816568.30 35816568.40 35816568.52 0.0291 0.0233

Saturn 93350-07-29 23:17 G 35816657.28 35816657.47 35816657.66 0.0292 0.0013

Saturn 93350-10-27 00:43 G 35816746.40 35816746.53 35816746.66 0.0293 0.0208

Earth 93351-11-21 20:38 G 35817137.28 35817137.36 35817137.45 0.2635 0.1623

Moon 93351-11-21 20:53 G 35817137.29 35817137.37 35817137.46 0.2641 0.1637 *

Jupiter 93352-01-06 18:43 G 35817183.14 35817183.28 35817183.42 0.0513 0.0325

Venus 93352-08-08 05:31 G 35817397.63 35817397.73 35817397.83 0.3622 0.0580

Moon 93355-05-27 01:12 G 35818419.41 35818419.55 35818419.69 0.2695 0.1317

Earth 93355-05-27 02:24 G 35818419.46 35818419.60 35818419.74 0.2699 0.1154 *

Uranus 93355-08-17 00:29 G 35818501.44 35818501.52 35818501.60 0.0135 0.0123

Uranus 93355-11-13 07:41 G 35818589.69 35818589.82 35818589.97 0.0135 0.0095

Mars 93355-12-24 16:05 G 35818631.09 35818631.17 35818631.26 0.1585 0.1083

Uranus 93356-02-09 15:07 G 35818677.97 35818678.13 35818678.31 0.0135 0.0068

Uranus 93356-05-07 22:48 G 35818766.26 35818766.45 35818766.63 0.0135 0.0041

Uranus 93356-08-04 06:00 G 35818854.56 35818854.75 35818854.94 0.0135 0.0013

Uranus 93356-10-31 13:12 G 35818942.86 35818943.05 35818943.25 0.0135 0.0014

Uranus 93357-01-27 20:24 G 35819031.18 35819031.35 35819031.54 0.0135 0.0041

Uranus 93357-04-26 03:50 G 35819119.50 35819119.66 35819119.83 0.0135 0.0067

Uranus 93357-07-23 10:48 G 35819207.83 35819207.95 35819208.10 0.0135 0.0094

Jupiter 93357-08-30 18:14 G 35819246.13 35819246.26 35819246.39 0.0513 0.0061

Uranus 93357-10-19 17:46 G 35819296.18 35819296.24 35819296.35 0.0135 0.0121

Mars 93357-11-28 17:02 G 35819336.09 35819336.21 35819336.32 0.1583 0.0328

Venus 93358-02-21 20:24 G 35819421.28 35819421.35 35819421.42 0.3621 0.2543

Mars 93362-08-16 16:05 G 35821058.07 35821058.17 35821058.26 0.1955 0.1576

Saturn 93363-06-12 09:22 G 35821357.83 35821357.89 35821357.95 0.0272 0.0240

Saturn 93363-09-08 19:41 G 35821446.20 35821446.32 35821446.44 0.0271 0.0120

Jupiter 93363-10-25 15:36 G 35821492.97 35821493.15 35821493.34 0.0513 0.0088

Saturn 93363-12-06 05:46 G 35821534.61 35821534.74 35821534.87 0.0270 0.0005

Saturn 93364-03-03 15:50 G 35821623.05 35821623.16 35821623.28 0.0269 0.0119

Saturn 93364-05-31 02:10 G 35821711.53 35821711.59 35821711.65 0.0268 0.0236

Earth 93364-11-23 14:10 G 35821887.98 35821888.09 35821888.20 0.2634 0.0234

Moon 93364-11-23 14:53 G 35821888.01 35821888.12 35821888.23 0.2635 0.0123 *

Mars 93365-05-16 04:05 G 35822061.62 35822061.67 35822061.72 0.1586 0.1421

Mars 93367-04-21 04:34 G 35822766.58 35822766.69 35822766.81 0.1583 0.0061

Moon 93368-05-29 07:55 G 35823170.72 35823170.83 35823170.94 0.2699 0.1862

Earth 93368-05-29 09:36 G 35823170.80 35823170.90 35823171.00 0.2700 0.2016 *

Mars 93369-03-26 06:00 G 35823471.70 35823471.75 35823471.80 0.1583 0.1414

Jupiter 93369-06-18 23:02 G 35823556.33 35823556.46 35823556.58 0.0513 0.0104

Mars 93372-01-06 07:41 G 35824487.66 35824487.82 35824487.98 0.1955 0.0247

Jupiter 93375-08-13 12:14 G 35825802.83 35825803.01 35825803.18 0.0512 0.0159

Mars 93376-09-10 16:34 G 35826197.07 35826197.19 35826197.30 0.1583 0.0368

Earth 93377-11-26 07:41 G 35826638.72 35826638.82 35826638.92 0.2633 0.1172

Moon 93377-11-26 08:24 G 35826638.75 35826638.85 35826638.95 0.2631 0.1296 *

Mars 93378-08-16 17:31 G 35826902.15 35826902.23 35826902.32 0.1583 0.1062

Saturn 93379-12-16 19:12 G 35827389.13 35827389.30 35827389.48 0.0292 0.0095

Saturn 93380-03-14 20:38 G 35827478.20 35827478.36 35827478.53 0.0293 0.0126

Jupiter 93381-04-07 03:36 G 35827866.54 35827866.65 35827866.76 0.0514 0.0267

Mars 93381-05-27 23:31 G 35827917.34 35827917.48 35827917.62 0.1955 0.1084

Jupiter 93381-07-05 07:41 G 35827955.74 35827955.82 35827955.90 0.0512 0.0399

Pluto 93383-05-08 11:02 G 35828627.90 35828627.96 35828628.07 0.0061 0.0054

Pluto 93383-08-04 12:29 G 35828715.90 35828716.02 35828716.16 0.0061 0.0044

Pluto 93383-10-31 13:26 G 35828803.93 35828804.06 35828804.23 0.0061 0.0034

Pluto 93384-01-27 14:53 G 35828891.96 35828892.12 35828892.30 0.0061 0.0023

Pluto 93384-04-24 16:05 G 35828980.00 35828980.17 35828980.35 0.0061 0.0012

Pluto 93384-07-21 17:17 G 35829068.04 35829068.22 35829068.41 0.0061 0.0002

Pluto 93384-10-17 18:14 G 35829156.09 35829156.26 35829156.45 0.0062 0.0010

Pluto 93385-01-13 19:26 G 35829244.15 35829244.31 35829244.49 0.0062 0.0020

Pluto 93385-04-11 20:24 G 35829332.21 35829332.35 35829332.53 0.0062 0.0031

Pluto 93385-07-08 21:50 G 35829420.28 35829420.41 35829420.55 0.0062 0.0041

Pluto 93385-10-04 22:48 G 35829508.37 35829508.45 35829508.56 0.0062 0.0052

Mars 93386-02-01 04:19 G 35829627.57 35829627.68 35829627.78 0.1584 0.0709

Jupiter 93387-06-01 08:24 G 35830112.74 35830112.85 35830112.96 0.0511 0.0408

Mars 93388-01-07 05:17 G 35830332.61 35830332.72 35830332.82 0.1583 0.0710

Earth 93390-11-29 01:26 G 35831389.55 35831389.56 35831389.57 0.2632 0.2595

Moon 93390-11-29 01:41 G 35831389.56 35831389.57 35831389.59 0.2625 0.2582 *

Jupiter 93393-01-24 08:38 G 35832176.79 35832176.86 35832176.93 0.0515 0.0425

Saturn 93393-01-25 21:36 G 35832178.30 35832178.40 35832178.51 0.0271 0.0162

Jupiter 93393-04-23 12:43 G 35832265.92 35832266.03 35832266.14 0.0513 0.0242

Saturn 93393-04-24 07:55 G 35832266.70 35832266.83 35832266.96 0.0270 0.0042

Saturn 93393-07-21 18:00 G 35832355.13 35832355.25 35832355.38 0.0269 0.0077

Saturn 93393-10-18 04:19 G 35832443.59 35832443.68 35832443.77 0.0268 0.0195

Mars 93395-06-24 16:05 G 35833058.09 35833058.17 35833058.26 0.1585 0.1048

Mars 93397-05-29 17:02 G 35833763.09 35833763.21 35833763.32 0.1583 0.0362

Earth 93397-11-22 01:26 G 35833939.47 35833939.56 35833939.66 0.2634 0.1345

Moon 93397-11-22 01:41 G 35833939.48 35833939.57 35833939.67 0.2640 0.1256 *

Venus 93398-02-13 21:22 G 35834023.32 35834023.39 35834023.45 0.3625 0.2632

Uranus 93398-05-13 22:34 G 35834112.38 35834112.44 35834112.51 0.0143 0.0123

Uranus 93398-08-10 01:55 G 35834200.50 35834200.58 35834200.68 0.0143 0.0102

Uranus 93398-11-06 05:31 G 35834288.62 35834288.73 35834288.84 0.0143 0.0080

Uranus 93399-02-02 08:53 G 35834376.76 35834376.87 35834377.00 0.0143 0.0059

Uranus 93399-05-01 12:29 G 35834464.90 35834465.02 35834465.15 0.0143 0.0037

Jupiter 93399-06-18 17:46 G 35834513.11 35834513.24 35834513.38 0.0513 0.0346

Uranus 93399-07-28 16:05 G 35834553.04 35834553.17 35834553.30 0.0143 0.0015

Uranus 93399-10-24 19:41 G 35834641.19 35834641.32 35834641.45 0.0143 0.0007

Uranus 93400-01-20 23:17 G 35834729.34 35834729.47 35834729.60 0.0143 0.0029

Uranus 93400-04-19 02:53 G 35834817.50 35834817.62 35834817.74 0.0143 0.0051

Uranus 93400-07-16 06:29 G 35834905.65 35834905.77 35834905.88 0.0143 0.0074

Uranus 93400-10-12 09:50 G 35834993.82 35834993.91 35834994.02 0.0143 0.0096

Venus 93400-11-25 05:31 G 35835037.57 35835037.73 35835037.89 0.3751 0.0485

Uranus 93401-01-08 13:26 G 35835082.00 35835082.06 35835082.14 0.0143 0.0119

Uranus 93401-04-06 17:17 G 35835170.20 35835170.22 35835170.24 0.0143 0.0141

Moon 93401-05-28 07:41 G 35835221.67 35835221.82 35835221.97 0.2696 0.0817

Earth 93401-05-28 09:07 G 35835221.73 35835221.88 35835222.03 0.2699 0.0560 *

Mars 93402-02-15 16:34 G 35835485.11 35835485.19 35835485.28 0.1955 0.1652

Venus 93403-08-31 12:00 G 35836046.90 35836047.00 35836047.10 0.3623 0.0678

Mars 93404-11-15 03:50 G 35836488.61 35836488.66 35836488.72 0.1586 0.1391

Jupiter 93405-02-10 17:46 G 35836576.11 35836576.24 35836576.36 0.0513 0.0085

Mars 93406-10-21 04:48 G 35837193.58 35837193.70 35837193.81 0.1583 0.0050

Mars 93408-09-25 06:00 G 35837898.71 35837898.75 35837898.80 0.1583 0.1452

Venus 93409-03-16 02:53 G 35838070.52 35838070.62 35838070.71 0.3622 0.1289

Saturn 93409-05-05 13:55 G 35838120.94 35838121.08 35838121.23 0.0291 0.0184

Saturn 93409-08-02 15:36 G 35838209.96 35838210.15 35838210.34 0.0292 0.0036

Saturn 93409-10-30 17:02 G 35838299.12 35838299.21 35838299.30 0.0293 0.0257

Earth 93410-11-25 18:58 G 35838690.18 35838690.29 35838690.40 0.2633 0.0051

Moon 93410-11-25 19:41 G 35838690.21 35838690.32 35838690.43 0.2635 0.0118 *

Jupiter 93411-04-07 14:38 G 35838822.93 35838823.11 35838823.29 0.0513 0.0107

Mars 93411-07-08 08:53 G 35838914.71 35838914.87 35838915.03 0.1956 0.0347

Moon 93414-05-31 14:38 G 35839973.03 35839973.11 35839973.18 0.2700 0.2339

Earth 93414-05-31 16:19 G 35839973.14 35839973.18 35839973.21 0.2700 0.2606 *

Venus 93414-09-29 17:31 G 35840094.19 35840094.23 35840094.28 0.3621 0.3252

Mars 93416-03-12 16:19 G 35840624.07 35840624.18 35840624.30 0.1583 0.0337

Jupiter 93416-11-29 22:05 G 35840886.30 35840886.42 35840886.55 0.0513 0.0086

Mars 93418-02-15 17:31 G 35841329.15 35841329.23 35841329.32 0.1583 0.1098

Neptune 93419-07-25 20:38 G 35841854.34 35841854.36 35841854.41 0.0088 0.0084

Neptune 93419-10-21 22:05 G 35841942.37 35841942.42 35841942.49 0.0088 0.0077

Neptune 93420-01-17 23:17 G 35842030.40 35842030.47 35842030.56 0.0088 0.0070

Neptune 93420-04-15 00:43 G 35842118.44 35842118.53 35842118.63 0.0088 0.0063

Neptune 93420-07-12 01:55 G 35842206.49 35842206.58 35842206.69 0.0088 0.0056

Neptune 93420-10-08 03:07 G 35842294.53 35842294.63 35842294.75 0.0088 0.0049

Mars 93420-11-27 00:14 G 35842344.37 35842344.51 35842344.66 0.1955 0.1007

Neptune 93421-01-04 04:34 G 35842382.58 35842382.69 35842382.81 0.0088 0.0042

Neptune 93421-04-02 05:46 G 35842470.63 35842470.74 35842470.87 0.0088 0.0035

Neptune 93421-06-29 07:12 G 35842558.67 35842558.80 35842558.93 0.0088 0.0027

Neptune 93421-09-25 08:24 G 35842646.72 35842646.85 35842646.98 0.0088 0.0021

Neptune 93421-12-22 09:50 G 35842734.78 35842734.91 35842735.04 0.0088 0.0013

Neptune 93422-03-20 11:02 G 35842822.83 35842822.96 35842823.09 0.0088 0.0006

Saturn 93422-06-15 23:46 G 35842910.41 35842910.49 35842910.58 0.0272 0.0205

Neptune 93422-06-16 12:29 G 35842910.88 35842911.02 35842911.15 0.0088 0.0003

Saturn 93422-09-12 09:50 G 35842998.79 35842998.91 35842999.04 0.0271 0.0086

Neptune 93422-09-12 13:41 G 35842998.94 35842999.07 35842999.20 0.0088 0.0008 *

Neptune 93422-12-09 14:53 G 35843086.99 35843087.12 35843087.25 0.0088 0.0015

Saturn 93422-12-09 20:10 G 35843087.21 35843087.34 35843087.47 0.0270 0.0035 *

Jupiter 93423-01-24 11:31 G 35843132.80 35843132.98 35843133.16 0.0513 0.0133

Neptune 93423-03-07 16:19 G 35843175.05 35843175.18 35843175.31 0.0088 0.0022

Saturn 93423-03-08 06:29 G 35843175.66 35843175.77 35843175.87 0.0269 0.0154

Neptune 93423-06-03 17:31 G 35843263.11 35843263.23 35843263.36 0.0088 0.0029

Neptune 93423-08-30 18:43 G 35843351.16 35843351.28 35843351.41 0.0088 0.0036

Neptune 93423-11-26 19:55 G 35843439.22 35843439.33 35843439.46 0.0088 0.0044

Earth 93423-11-28 12:29 G 35843440.93 35843441.02 35843441.12 0.2633 0.1461

Moon 93423-11-28 13:12 G 35843440.96 35843441.05 35843441.14 0.2629 0.1545 *

Neptune 93424-02-22 21:22 G 35843527.29 35843527.39 35843527.50 0.0088 0.0051

Neptune 93424-05-20 22:34 G 35843615.35 35843615.44 35843615.55 0.0088 0.0058

Neptune 93424-08-17 00:00 G 35843703.42 35843703.50 35843703.59 0.0088 0.0065

Neptune 93424-11-13 01:12 G 35843791.49 35843791.55 35843791.64 0.0088 0.0072

Neptune 93425-02-09 02:38 G 35843879.56 35843879.61 35843879.67 0.0088 0.0079

Neptune 93425-05-08 04:05 G 35843967.65 35843967.67 35843967.69 0.0088 0.0086

Mars 93425-08-03 04:19 G 35844054.57 35844054.68 35844054.78 0.1584 0.0677

Mars 93427-07-09 05:17 G 35844759.61 35844759.72 35844759.82 0.1583 0.0742

Jupiter 93428-09-18 02:53 G 35845196.51 35845196.62 35845196.73 0.0514 0.0248

Jupiter 93428-12-16 06:58 G 35845285.72 35845285.79 35845285.86 0.0512 0.0416

Moon 93430-11-21 12:43 G 35845990.99 35845991.03 35845991.07 0.2642 0.2407

Earth 93430-11-21 12:43 G 35845991.00 35845991.03 35845991.07 0.2635 0.2448 *

Jupiter 93434-11-12 08:10 G 35847442.71 35847442.84 35847442.96 0.0512 0.0377

Mars 93434-12-24 16:05 G 35847485.08 35847485.17 35847485.26 0.1585 0.1019

Mars 93436-11-28 17:02 G 35848190.09 35848190.21 35848190.32 0.1583 0.0396

Saturn 93438-09-22 09:36 G 35848852.84 35848852.90 35848852.98 0.0291 0.0267

Saturn 93438-12-20 11:17 G 35848941.79 35848941.97 35848942.16 0.0292 0.0048

Saturn 93439-03-19 12:43 G 35849030.88 35849031.03 35849031.18 0.0293 0.0173

Uranus 93439-09-07 08:10 G 35849202.74 35849202.84 35849202.94 0.0135 0.0114

Uranus 93439-12-04 15:22 G 35849291.00 35849291.14 35849291.30 0.0135 0.0087

Uranus 93440-03-01 22:48 G 35849379.28 35849379.45 35849379.63 0.0135 0.0059

Uranus 93440-05-29 06:14 G 35849467.58 35849467.76 35849467.95 0.0135 0.0032

Jupiter 93440-07-07 07:41 G 35849506.74 35849506.82 35849506.89 0.0514 0.0413

Uranus 93440-08-25 13:41 G 35849555.88 35849556.07 35849556.26 0.0135 0.0005

Jupiter 93440-10-04 11:46 G 35849595.88 35849595.99 35849596.10 0.0513 0.0253

Uranus 93440-11-21 20:53 G 35849644.18 35849644.37 35849644.56 0.0135 0.0023

Uranus 93441-02-18 04:19 G 35849732.50 35849732.68 35849732.86 0.0135 0.0049

Uranus 93441-05-17 11:17 G 35849820.82 35849820.97 35849821.14 0.0135 0.0076

Uranus 93441-08-13 18:29 G 35849909.16 35849909.27 35849909.40 0.0135 0.0103

Mars 93441-08-16 17:31 G 35849912.15 35849912.23 35849912.30 0.1956 0.1734

Uranus 93441-11-10 01:41 G 35849997.53 35849997.57 35849997.63 0.0135 0.0129

Earth 93443-11-24 06:14 G 35850741.66 35850741.76 35850741.86 0.2634 0.1064

Moon 93443-11-24 06:43 G 35850741.68 35850741.78 35850741.88 0.2639 0.1059 *

Mars 93444-05-16 03:50 G 35850915.61 35850915.66 35850915.72 0.1586 0.1359

Mars 93446-04-21 04:34 G 35851620.58 35851620.69 35851620.81 0.1583 0.0061

Jupiter 93446-11-29 18:00 G 35851843.13 35851843.25 35851843.37 0.0513 0.0387

Moon 93447-05-29 14:10 G 35852023.94 35852024.09 35852024.25 0.2696 0.0119

Earth 93447-05-29 15:50 G 35852024.00 35852024.16 35852024.31 0.2699 0.0044 *

Mars 93448-03-26 06:00 G 35852325.71 35852325.75 35852325.79 0.1583 0.1485

Mars 93451-01-06 09:50 G 35853341.75 35853341.91 35853342.07 0.1956 0.0435

Saturn 93451-11-03 01:26 G 35853642.52 35853642.56 35853642.62 0.0272 0.0250

Saturn 93452-01-30 12:00 G 35853730.88 35853731.00 35853731.11 0.0271 0.0129

Saturn 93452-04-27 22:05 G 35853819.29 35853819.42 35853819.55 0.0270 0.0009

Jupiter 93452-07-23 16:34 G 35853906.07 35853906.19 35853906.32 0.0513 0.0096

Saturn 93452-07-25 08:24 G 35853907.73 35853907.85 35853907.97 0.0269 0.0111

Saturn 93452-10-21 18:29 G 35853996.20 35853996.27 35853996.34 0.0268 0.0228

Venus 93454-09-21 18:29 G 35854696.18 35854696.27 35854696.35 0.3624 0.1920

Mars 93455-09-11 16:19 G 35855051.07 35855051.18 35855051.30 0.1583 0.0305

Earth 93456-11-25 23:46 G 35855492.38 35855492.49 35855492.60 0.2633 0.0331

Moon 93456-11-26 00:29 G 35855492.41 35855492.52 35855492.63 0.2635 0.0484 *

Venus 93457-07-02 08:53 G 35855710.81 35855710.87 35855710.93 0.3751 0.3423

Mars 93457-08-16 17:31 G 35855756.15 35855756.23 35855756.32 0.1583 0.1131

Jupiter 93458-09-17 13:55 G 35856152.91 35856153.08 35856153.26 0.0512 0.0133

Venus 93460-04-06 09:22 G 35856719.78 35856719.89 35856719.99 0.3623 0.0154

Mars 93460-05-28 01:12 G 35856771.40 35856771.55 35856771.70 0.1955 0.0921

Jupiter 93464-05-11 21:36 G 35858216.28 35858216.40 35858216.53 0.0514 0.0064

Mars 93465-02-01 04:19 G 35858481.57 35858481.68 35858481.78 0.1584 0.0646

Venus 93465-10-21 00:00 G 35858743.42 35858743.50 35858743.59 0.3622 0.2003

Mars 93467-01-07 05:17 G 35859186.62 35859186.72 35859186.82 0.1583 0.0778

Saturn 93468-05-08 06:00 G 35859673.59 35859673.75 35859673.92 0.0291 0.0138

Saturn 93468-08-05 07:26 G 35859762.63 35859762.81 35859762.99 0.0292 0.0082

Earth 93469-11-28 17:17 G 35860243.14 35860243.22 35860243.31 0.2632 0.1750

Moon 93469-11-28 18:00 G 35860243.17 35860243.25 35860243.33 0.2628 0.1793 *

Jupiter 93470-07-06 10:48 G 35860462.77 35860462.95 35860463.13 0.0512 0.0108

Mars 93474-06-24 16:05 G 35861912.08 35861912.17 35861912.26 0.1585 0.0990

Jupiter 93476-02-29 02:10 G 35862526.48 35862526.59 35862526.71 0.0514 0.0229

Pluto 93476-03-05 08:10 G 35862531.81 35862531.84 35862531.90 0.0083 0.0079

Jupiter 93476-05-28 06:14 G 35862615.70 35862615.76 35862615.83 0.0512 0.0434

Mars 93476-05-29 16:48 G 35862617.09 35862617.20 35862617.32 0.1582 0.0430

Pluto 93476-06-01 09:36 G 35862619.81 35862619.90 35862620.01 0.0083 0.0058

Pluto 93476-08-28 11:02 G 35862707.84 35862707.96 35862708.09 0.0083 0.0038

Earth 93476-11-21 17:31 G 35862793.17 35862793.23 35862793.29 0.2635 0.2171

Moon 93476-11-21 17:31 G 35862793.18 35862793.23 35862793.29 0.2642 0.2236 *

Pluto 93476-11-24 12:29 G 35862795.88 35862796.02 35862796.16 0.0083 0.0018

Pluto 93477-02-20 13:41 G 35862883.93 35862884.07 35862884.21 0.0083 0.0003

Pluto 93477-05-19 15:07 G 35862971.99 35862972.13 35862972.26 0.0083 0.0022

Pluto 93477-08-15 16:19 G 35863060.06 35863060.18 35863060.30 0.0083 0.0042

Pluto 93477-11-11 17:31 G 35863148.15 35863148.23 35863148.33 0.0082 0.0062

Pluto 93478-02-07 18:43 G 35863236.27 35863236.28 35863236.31 0.0082 0.0081

Moon 93480-05-26 13:55 G 35864075.05 35864075.08 35864075.12 0.2693 0.2622

Earth 93480-05-26 15:07 G 35864075.09 35864075.13 35864075.17 0.2698 0.2592 *

Mars 93481-02-14 18:29 G 35864339.21 35864339.27 35864339.32 0.1956 0.1818

Saturn 93481-06-18 13:55 G 35864462.98 35864463.08 35864463.18 0.0272 0.0174

Saturn 93481-09-15 00:00 G 35864551.37 35864551.50 35864551.63 0.0271 0.0053

Saturn 93481-12-12 10:19 G 35864639.80 35864639.93 35864640.06 0.0270 0.0067

Uranus 93482-03-08 02:53 G 35864725.59 35864725.62 35864725.66 0.0143 0.0137

Saturn 93482-03-10 20:24 G 35864728.26 35864728.35 35864728.45 0.0269 0.0186

Jupiter 93482-04-24 07:26 G 35864772.68 35864772.81 35864772.95 0.0512 0.0351

Uranus 93482-06-04 06:29 G 35864813.69 35864813.77 35864813.84 0.0143 0.0115

Uranus 93482-08-31 09:50 G 35864901.81 35864901.91 35864902.01 0.0143 0.0094

Uranus 93482-11-27 13:26 G 35864989.95 35864990.06 35864990.17 0.0143 0.0072

Uranus 93483-02-23 16:48 G 35865078.08 35865078.20 35865078.33 0.0143 0.0051

Uranus 93483-05-22 20:24 G 35865166.22 35865166.35 35865166.48 0.0143 0.0029

Uranus 93483-08-19 00:00 G 35865254.37 35865254.50 35865254.63 0.0143 0.0007

Uranus 93483-11-15 03:36 G 35865342.52 35865342.65 35865342.78 0.0143 0.0016

Mars 93483-11-15 03:50 G 35865342.60 35865342.66 35865342.72 0.1586 0.1327 *

Uranus 93484-02-11 06:58 G 35865430.67 35865430.79 35865430.92 0.0143 0.0038

Uranus 93484-05-09 10:34 G 35865518.82 35865518.94 35865519.07 0.0143 0.0060

Uranus 93484-08-05 14:10 G 35865606.99 35865607.09 35865607.20 0.0143 0.0082

Uranus 93484-11-01 17:46 G 35865695.16 35865695.24 35865695.33 0.0143 0.0104

Uranus 93485-01-28 21:22 G 35865783.34 35865783.39 35865783.46 0.0143 0.0127

Mars 93485-10-20 04:34 G 35866047.57 35866047.69 35866047.81 0.1583 0.0080

Mars 93487-09-25 06:00 G 35866752.72 35866752.75 35866752.78 0.1583 0.1518

Jupiter 93487-12-18 06:58 G 35866836.71 35866836.79 35866836.87 0.0514 0.0391

Jupiter 93488-03-16 11:02 G 35866925.85 35866925.96 35866926.07 0.0512 0.0273

Earth 93489-11-24 11:02 G 35867543.85 35867543.96 35867544.06 0.2634 0.0789

Moon 93489-11-24 11:31 G 35867543.88 35867543.98 35867544.09 0.2638 0.0647 *

Mars 93490-07-07 10:19 G 35867768.77 35867768.93 35867769.09 0.1956 0.0501

Moon 93493-05-29 20:53 G 35868826.22 35868826.37 35868826.53 0.2696 0.0359

Earth 93493-05-29 22:34 G 35868826.29 35868826.44 35868826.59 0.2699 0.0645 *

Jupiter 93494-05-11 17:46 G 35869173.14 35869173.24 35869173.35 0.0513 0.0419

Mars 93495-03-12 16:19 G 35869478.07 35869478.18 35869478.30 0.1583 0.0270

Mars 93497-02-14 17:31 G 35870183.15 35870183.23 35870183.31 0.1583 0.1163

Saturn 93497-09-25 01:41 G 35870405.45 35870405.57 35870405.70 0.0291 0.0221

Saturn 93497-12-23 03:22 G 35870494.45 35870494.64 35870494.82 0.0292 0.0006

Saturn 93498-03-22 04:34 G 35870583.57 35870583.69 35870583.82 0.0293 0.0218

Mars 93499-11-27 02:10 G 35871198.44 35871198.59 35871198.74 0.1955 0.0832

Jupiter 93500-01-03 15:36 G 35871236.03 35871236.15 35871236.28 0.0513 0.0110

Earth 93502-11-28 04:34 G 35872294.58 35872294.69 35872294.80 0.2633 0.0616

Moon 93502-11-28 05:17 G 35872294.61 35872294.72 35872294.83 0.2634 0.0663 *

Neptune 93503-04-10 10:48 G 35872427.92 35872427.95 35872428.02 0.0090 0.0087

Neptune 93503-07-07 14:38 G 35872516.02 35872516.11 35872516.23 0.0090 0.0076

Neptune 93503-10-03 18:43 G 35872604.15 35872604.28 35872604.42 0.0090 0.0064

Neptune 93503-12-30 22:19 G 35872692.28 35872692.43 35872692.59 0.0090 0.0053

Neptune 93504-03-28 02:10 G 35872780.42 35872780.59 35872780.76 0.0090 0.0042

Neptune 93504-06-24 05:46 G 35872868.56 35872868.74 35872868.92 0.0090 0.0031

Mars 93504-08-03 04:19 G 35872908.57 35872908.68 35872908.78 0.1584 0.0616

Neptune 93504-09-20 09:07 G 35872956.71 35872956.88 35872957.08 0.0090 0.0021

Neptune 93504-12-17 12:58 G 35873044.85 35873045.04 35873045.24 0.0090 0.0010

Neptune 93505-03-15 16:48 G 35873133.01 35873133.20 35873133.39 0.0090 0.0002

Neptune 93505-06-11 20:24 G 35873221.16 35873221.35 35873221.54 0.0090 0.0013

Neptune 93505-09-08 00:00 G 35873309.32 35873309.50 35873309.69 0.0090 0.0024

Venus 93505-10-14 00:58 G 35873345.49 35873345.54 35873345.59 0.3625 0.3160

Neptune 93505-12-05 03:22 G 35873397.48 35873397.64 35873397.83 0.0090 0.0035

Jupiter 93506-02-28 14:10 G 35873482.92 35873483.09 35873483.27 0.0513 0.0172

Neptune 93506-03-03 06:58 G 35873485.64 35873485.79 35873485.97 0.0090 0.0046

Neptune 93506-05-30 10:34 G 35873573.81 35873573.94 35873574.10 0.0090 0.0057

Mars 93506-07-09 05:17 G 35873613.62 35873613.72 35873613.82 0.1583 0.0811

Neptune 93506-08-26 13:55 G 35873661.98 35873662.08 35873662.23 0.0090 0.0068

Neptune 93506-11-22 18:00 G 35873750.16 35873750.25 35873750.35 0.0090 0.0078

Neptune 93507-02-18 21:22 G 35873838.38 35873838.39 35873838.43 0.0090 0.0089

Venus	93508-07-23 22:05 G	35874359.32	35874359.42	35874359.52	0.3750	0.2954
Saturn	93510-11-06 15:36 G	35875195.08	35875195.15	35875195.23	0.0273	0.0218
Saturn	93511-02-03 01:55 G	35875283.46	35875283.58	35875283.70	0.0271	0.0097
Venus	93511-04-29 15:36 G	35875369.06	35875369.15	35875369.25	0.3624	0.1218
Saturn	93511-05-02 12:14 G	35875371.88	35875372.01	35875372.14	0.0270	0.0024
Saturn	93511-07-29 22:19 G	35875460.32	35875460.43	35875460.55	0.0269	0.0143
Jupiter	93511-10-23 20:38 G	35875546.23	35875546.36	35875546.49	0.0514	0.0051
Saturn	93511-10-26 08:38 G	35875548.83	35875548.86	35875548.89	0.0268	0.0261
Mars	93513-12-24 16:05 G	35876339.08	35876339.17	35876339.26	0.1585	0.0954
Mars	93515-11-29 16:48 G	35877044.09	35877044.20	35877044.32	0.1583	0.0465
Earth	93515-11-30 22:19 G	35877045.36	35877045.43	35877045.50	0.2632	0.2036
Moon	93515-11-30 22:48 G	35877045.38	35877045.45	35877045.51	0.2627	0.2145 *
Venus	93516-11-12 06:29 G	35877392.67	35877392.77	35877392.87	0.3622	0.0751
Jupiter	93517-12-17 10:05 G	35877792.74	35877792.92	35877793.11	0.0512	0.0083
Mars	93520-08-16 19:12 G	35878766.27	35878766.30	35878766.33	0.1956	0.1903
Venus	93522-05-28 21:22 G	35879416.32	35879416.39	35879416.45	0.3621	0.2713
Earth	93522-11-23 22:19 G	35879595.35	35879595.43	35879595.51	0.2635	0.1897
Moon	93522-11-23 22:19 G	35879595.36	35879595.43	35879595.51	0.2641	0.1856 *
Mars	93523-05-17 03:50 G	35879769.59	35879769.66	35879769.73	0.1586	0.1297
Uranus	93523-07-02 08:24 G	35879815.82	35879815.85	35879815.91	0.0135	0.0131
Jupiter	93523-08-12 01:41 G	35879856.45	35879856.57	35879856.68	0.0514	0.0207
Uranus	93523-09-28 16:05 G	35879904.05	35879904.17	35879904.30	0.0135	0.0103
Jupiter	93523-11-09 05:46 G	35879945.69	35879945.74	35879945.80	0.0512	0.0458
Uranus	93523-12-25 23:17 G	35879992.32	35879992.47	35879992.64	0.0135	0.0077
Uranus	93524-03-23 06:43 G	35880080.61	35880080.78	35880080.97	0.0135	0.0049
Uranus	93524-06-19 14:10 G	35880168.91	35880169.09	35880169.29	0.0135	0.0022
Uranus	93524-09-15 21:36 G	35880257.21	35880257.40	35880257.59	0.0135	0.0006
Uranus	93524-12-13 04:48 G	35880345.52	35880345.70	35880345.89	0.0135	0.0033
Uranus	93525-03-11 12:14 G	35880433.84	35880434.01	35880434.18	0.0135	0.0059
Mars	93525-04-21 04:34 G	35880474.58	35880474.69	35880474.81	0.1583	0.0119

Uranus 93525-06-07 19:12 G 35880522.16 35880522.30 35880522.46 0.0135 0.0086

Uranus 93525-09-04 02:24 G 35880610.51 35880610.60 35880610.72 0.0135 0.0113

Moon 93526-05-28 20:38 G 35880877.28 35880877.36 35880877.45 0.2693 0.2249

Earth 93526-05-28 21:50 G 35880877.31 35880877.41 35880877.51 0.2698 0.1978 *

Mars 93527-03-27 06:00 G 35881179.73 35881179.75 35881179.77 0.1583 0.1554

Saturn 93527-05-12 22:19 G 35881226.25 35881226.43 35881226.61 0.0291 0.0090

Saturn 93527-08-09 23:31 G 35881315.32 35881315.48 35881315.65 0.0292 0.0130

Jupiter 93529-10-05 06:43 G 35882102.64 35882102.78 35882102.93 0.0512 0.0325

Mars 93530-01-06 11:17 G 35882195.81 35882195.97 35882196.13 0.1956 0.0594

Mars 93534-09-11 16:19 G 35883905.06 35883905.18 35883905.30 0.1583 0.0237

Jupiter 93535-05-31 06:14 G 35884166.68 35884166.76 35884166.85 0.0514 0.0372

Jupiter 93535-08-28 10:19 G 35884255.83 35884255.93 35884256.03 0.0512 0.0291

Earth 93535-11-26 15:50 G 35884346.05 35884346.16 35884346.27 0.2634 0.0508

Moon 93535-11-26 16:19 G 35884346.07 35884346.18 35884346.29 0.2638 0.0484 *

Mars 93536-08-16 17:31 G 35884610.16 35884610.23 35884610.31 0.1583 0.1199

Mars 93539-05-29 02:53 G 35885625.47 35885625.62 35885625.78 0.1955 0.0755

Moon 93539-06-01 03:22 G 35885628.50 35885628.64 35885628.79 0.2698 0.1112

Earth 93539-06-01 05:02 G 35885628.57 35885628.71 35885628.85 0.2699 0.1226 *

Saturn 93540-03-25 17:31 G 35885927.20 35885927.23 35885927.26 0.0274 0.0264

Saturn 93540-06-22 03:50 G 35886015.55 35886015.66 35886015.77 0.0272 0.0142

Saturn 93540-09-18 14:10 G 35886103.96 35886104.09 35886104.22 0.0271 0.0022

Saturn 93540-12-16 00:14 G 35886192.39 35886192.51 35886192.64 0.0270 0.0099

Saturn 93541-03-14 10:34 G 35886280.87 35886280.94 35886281.02 0.0269 0.0218

Jupiter 93541-10-22 16:48 G 35886503.12 35886503.20 35886503.30 0.0514 0.0444

Mars 93544-02-02 04:05 G 35887335.56 35887335.67 35887335.78 0.1584 0.0583

Mars 93546-01-07 05:02 G 35888040.61 35888040.71 35888040.81 0.1582 0.0844

Jupiter 93547-06-16 15:07 G 35888566.01 35888566.13 35888566.25 0.0512 0.0130

Earth 93548-11-28 09:22 G 35889096.79 35889096.89 35889097.00 0.2633 0.0899

Moon 93548-11-28 10:05 G 35889096.82 35889096.92 35889097.02 0.2631 0.1058 *

Mars 93553-06-24 16:05 G 35890766.07 35890766.17 35890766.26 0.1585 0.0926

Jupiter 93553-08-10 13:41 G 35890812.90 35890813.07 35890813.24 0.0513 0.0200

Mars 93555-05-30 16:48 G 35891471.09 35891471.20 35891471.32 0.1582 0.0497

Saturn 93556-09-28 18:29 G 35891958.12 35891958.27 35891958.42 0.0291 0.0169

Saturn 93556-12-26 19:55 G 35892047.14 35892047.33 35892047.51 0.0292 0.0050

Saturn 93557-03-25 20:53 G 35892136.31 35892136.37 35892136.45 0.0293 0.0270

Jupiter 93559-04-04 19:41 G 35892876.19 35892876.32 35892876.45 0.0513 0.0037

Earth 93561-12-01 03:07 G 35893847.58 35893847.63 35893847.68 0.2632 0.2322

Moon 93561-12-01 03:36 G 35893847.60 35893847.65 35893847.69 0.2627 0.2337 *

Venus 93562-05-20 22:05 G 35894018.35 35894018.42 35894018.50 0.3624 0.2449

Mars 93562-11-15 03:50 G 35894196.59 35894196.66 35894196.73 0.1586 0.1265

Mars 93564-10-20 04:34 G 35894901.57 35894901.69 35894901.81 0.1583 0.0143

Venus 93565-02-28 01:12 G 35895032.39 35895032.55 35895032.72 0.3750 0.0124

Jupiter 93565-05-29 10:05 G 35895122.74 35895122.92 35895123.11 0.0512 0.0048

Uranus 93566-03-29 10:05 G 35895426.88 35895426.92 35895426.98 0.0143 0.0131

Uranus 93566-06-25 13:41 G 35895514.99 35895515.07 35895515.16 0.0143 0.0110

Uranus 93566-09-21 17:17 G 35895603.12 35895603.22 35895603.33 0.0143 0.0088

Uranus 93566-12-18 20:53 G 35895691.25 35895691.37 35895691.48 0.0143 0.0066

Uranus 93567-03-17 00:14 G 35895779.39 35895779.51 35895779.64 0.0143 0.0045

Uranus 93567-06-13 03:50 G 35895867.53 35895867.66 35895867.79 0.0143 0.0023

Uranus 93567-09-09 07:26 G 35895955.68 35895955.81 35895955.94 0.0143 0.0001

Venus 93567-12-04 12:58 G 35896041.94 35896042.04 35896042.14 0.3623 0.0496

Uranus 93567-12-06 11:02 G 35896043.83 35896043.96 35896044.09 0.0143 0.0022

Uranus 93568-03-03 14:24 G 35896131.98 35896132.10 35896132.23 0.0143 0.0044

Uranus 93568-05-30 18:00 G 35896220.14 35896220.25 35896220.37 0.0143 0.0066

Uranus 93568-08-26 21:36 G 35896308.30 35896308.40 35896308.51 0.0143 0.0088

Uranus 93568-11-23 01:12 G 35896396.47 35896396.55 35896396.64 0.0143 0.0111

Earth 93568-11-24 03:07 G 35896397.54 35896397.63 35896397.72 0.2635 0.1620

Moon 93568-11-24 03:22 G 35896397.55 35896397.64 35896397.73 0.2640 0.1596 *

Uranus 93569-02-19 04:34 G 35896484.66 35896484.69 35896484.75 0.0143 0.0134

Mars 93569-07-07 12:29 G 35896622.86 35896623.02 35896623.17 0.1956 0.0689

Saturn 93569-11-09 05:46 G 35896747.65 35896747.74 35896747.84 0.0273 0.0186

Saturn 93570-02-05 16:05 G 35896836.04 35896836.17 35896836.30 0.0272 0.0064

Saturn 93570-05-05 02:24 G 35896924.47 35896924.60 35896924.72 0.0270 0.0057

Saturn 93570-08-01 12:29 G 35897012.92 35897013.02 35897013.12 0.0269 0.0176

Jupiter 93571-01-22 00:29 G 35897186.41 35897186.52 35897186.64 0.0514 0.0198

Jupiter 93571-04-21 04:34 G 35897275.65 35897275.69 35897275.75 0.0512 0.0468

Moon 93572-05-29 03:07 G 35897679.50 35897679.63 35897679.77 0.2693 0.1448

Earth 93572-05-29 04:34 G 35897679.55 35897679.69 35897679.82 0.2698 0.1382 *

Venus 93573-06-19 03:50 G 35898065.57 35898065.66 35898065.75 0.3622 0.1466

Mars 93574-03-12 16:19 G 35898332.07 35898332.18 35898332.30 0.1583 0.0203

Mars 93576-02-15 17:31 G 35899037.16 35899037.23 35899037.30 0.1583 0.1232

Jupiter 93577-03-17 06:00 G 35899432.60 35899432.75 35899432.90 0.0512 0.0302

Mars 93578-11-27 03:50 G 35900052.50 35900052.66 35900052.81 0.1955 0.0669

Venus 93579-01-02 18:29 G 35900089.24 35900089.27 35900089.30 0.3621 0.3426

Earth 93581-11-26 20:38 G 35901148.25 35901148.36 35901148.47 0.2634 0.0232

Moon 93581-11-26 21:07 G 35901148.27 35901148.38 35901148.49 0.2637 0.0109 *

Jupiter 93582-11-10 05:31 G 35901496.64 35901496.73 35901496.82 0.0514 0.0354

Jupiter 93583-02-07 09:36 G 35901585.80 35901585.90 35901586.00 0.0512 0.0311

Mars 93583-08-03 04:05 G 35901762.56 35901762.67 35901762.78 0.1584 0.0549

Neptune 93584-04-21 20:10 G 35902025.31 35902025.34 35902025.40 0.0088 0.0082

Neptune 93584-07-18 21:22 G 35902113.34 35902113.39 35902113.47 0.0088 0.0075

Neptune 93584-10-14 22:48 G 35902201.37 35902201.45 35902201.54 0.0088 0.0068

Neptune 93585-01-11 00:00 G 35902289.41 35902289.50 35902289.60 0.0088 0.0061

Neptune 93585-04-09 01:12 G 35902377.46 35902377.55 35902377.67 0.0088 0.0054

Moon 93585-06-01 10:05 G 35902430.79 35902430.92 35902431.05 0.2700 0.1483

Earth 93585-06-01 11:46 G 35902430.88 35902430.99 35902431.10 0.2700 0.1822 *

Neptune 93585-07-06 02:38 G 35902465.50 35902465.61 35902465.73 0.0088 0.0047

Mars 93585-07-08 05:17 G 35902467.62 35902467.72 35902467.81 0.1582 0.0880

Neptune 93585-10-02 03:50 G 35902553.55 35902553.66 35902553.79 0.0088 0.0040

Neptune 93585-12-29 05:17 G 35902641.60 35902641.72 35902641.85 0.0088 0.0032

Saturn 93586-02-15 13:41 G 35902689.98 35902690.07 35902690.16 0.0290 0.0254

Neptune 93586-03-27 06:29 G 35902729.65 35902729.77 35902729.90 0.0088 0.0026

Saturn 93586-05-15 15:07 G 35902778.95 35902779.13 35902779.32 0.0291 0.0036

Neptune 93586-06-23 07:55 G 35902817.70 35902817.83 35902817.96 0.0088 0.0018

Saturn 93586-08-12 16:34 G 35902868.04 35902868.19 35902868.33 0.0292 0.0184

Neptune 93586-09-19 09:07 G 35902905.75 35902905.88 35902906.01 0.0088 0.0011

Neptune 93586-12-16 10:34 G 35902993.80 35902993.94 35902994.07 0.0088 0.0005

Neptune 93587-03-14 11:46 G 35903081.86 35903081.99 35903082.12 0.0088 0.0003

Neptune 93587-06-10 12:58 G 35903169.91 35903170.04 35903170.18 0.0088 0.0010

Neptune 93587-09-06 14:24 G 35903257.97 35903258.10 35903258.23 0.0088 0.0017

Neptune 93587-12-03 15:36 G 35903346.02 35903346.15 35903346.28 0.0088 0.0024

Neptune 93588-02-29 16:48 G 35903434.08 35903434.20 35903434.33 0.0088 0.0031

Neptune 93588-05-27 18:00 G 35903522.14 35903522.25 35903522.38 0.0088 0.0039

Neptune 93588-08-23 19:26 G 35903610.20 35903610.31 35903610.43 0.0088 0.0046

Neptune 93588-11-19 20:38 G 35903698.26 35903698.36 35903698.48 0.0088 0.0053

Neptune 93589-02-15 22:05 G 35903786.33 35903786.42 35903786.52 0.0088 0.0060

Jupiter 93589-04-03 16:05 G 35903833.10 35903833.17 35903833.25 0.0513 0.0466

Neptune 93589-05-14 23:17 G 35903874.39 35903874.47 35903874.56 0.0088 0.0067

Neptune 93589-08-11 00:43 G 35903962.46 35903962.53 35903962.60 0.0088 0.0074

Neptune 93589-11-07 02:10 G 35904050.54 35904050.59 35904050.64 0.0088 0.0081

Mars 93592-12-23 15:50 G 35905193.07 35905193.16 35905193.26 0.1584 0.0895

Jupiter 93594-11-26 14:24 G 35905895.98 35905896.10 35905896.22 0.0512 0.0147

Mars 93594-11-28 16:48 G 35905898.09 35905898.20 35905898.31 0.1582 0.0527

Earth 93594-11-29 14:10 G 35905898.99 35905899.09 35905899.19 0.2633 0.1184

Moon 93594-11-29 14:53 G 35905899.02 35905899.12 35905899.22 0.2630 0.1218 *

Saturn 93599-03-29 07:41 G 35907479.76 35907479.82 35907479.89 0.0274 0.0231

Saturn 93599-06-25 18:00 G 35907568.13 35907568.25 35907568.37 0.0273 0.0109

Saturn 93599-09-22 04:19 G 35907656.55 35907656.68 35907656.81 0.0271 0.0014

Saturn 93599-12-19 14:38 G 35907745.00 35907745.11 35907745.22 0.0270 0.0133

Saturn 93600-03-17 00:58 G 35907833.50 35907833.54 35907833.58 0.0269 0.0253

Jupiter 93601-01-20 12:29 G 35908142.86 35908143.02 35908143.19 0.0514 0.0218

Mars 93602-05-16 03:50 G 35908623.59 35908623.66 35908623.73 0.1586 0.1234

Mars 93604-04-20 04:34 G 35909328.57 35909328.69 35909328.81 0.1583 0.0176

Jupiter 93606-09-14 19:12 G 35910206.17 35910206.30 35910206.42 0.0513 0.0019

Uranus 93607-07-22 16:05 G 35910517.10 35910517.17 35910517.26 0.0135 0.0123

Uranus 93607-10-18 23:17 G 35910605.35 35910605.47 35910605.62 0.0135 0.0096

Earth 93607-12-02 07:55 G 35910649.82 35910649.83 35910649.84 0.2632 0.2610

Uranus 93608-01-15 06:58 G 35910693.63 35910693.79 35910693.96 0.0135 0.0068

Uranus 93608-04-12 14:24 G 35910781.92 35910782.10 35910782.29 0.0135 0.0040

Uranus 93608-07-09 21:50 G 35910870.22 35910870.41 35910870.60 0.0135 0.0013

Uranus 93608-10-06 05:17 G 35910958.52 35910958.72 35910958.91 0.0135 0.0014

Uranus 93609-01-02 12:29 G 35911046.84 35911047.02 35911047.20 0.0135 0.0041

Mars 93609-01-05 12:43 G 35911049.88 35911050.03 35911050.18 0.1956 0.0749

Uranus 93609-03-31 19:26 G 35911135.16 35911135.31 35911135.49 0.0135 0.0068

Uranus 93609-06-28 02:38 G 35911223.49 35911223.61 35911223.76 0.0135 0.0095

Uranus 93609-09-24 10:05 G 35911311.84 35911311.92 35911312.01 0.0135 0.0121

Mars 93611-10-06 15:36 G 35912054.14 35912054.15 35912054.16 0.1587 0.1575

Jupiter 93612-11-08 09:07 G 35912452.70 35912452.88 35912453.07 0.0513 0.0027

Mars 93613-09-10 16:19 G 35912759.06 35912759.18 35912759.30 0.1583 0.0170

Earth 93614-11-25 07:55 G 35913199.73 35913199.83 35913199.92 0.2635 0.1339

Moon 93614-11-25 08:10 G 35913199.75 35913199.84 35913199.94 0.2640 0.1297 *

Mars 93615-08-16 17:31 G 35913464.16 35913464.23 35913464.30 0.1583 0.1266

Saturn 93615-10-02 12:00 G 35913510.83 35913511.00 35913511.18 0.0290 0.0109

Saturn 93615-12-30 13:26 G 35913599.89 35913600.06 35913600.23 0.0292 0.0110

Mars 93618-05-28 04:48 G 35914479.54 35914479.70 35914479.86 0.1956 0.0578

Moon 93618-05-30 10:05 G 35914481.77 35914481.92 35914482.06 0.2694 0.1023

Earth 93618-05-30 11:17 G 35914481.82 35914481.97 35914482.12 0.2699 0.0765 *

Jupiter 93618-07-03 23:46 G 35914516.37 35914516.49 35914516.60 0.0513 0.0184

Jupiter 93618-10-01 03:36 G 35914605.61 35914605.65 35914605.70 0.0512 0.0480

Venus 93618-12-25 19:26 G 35914691.22 35914691.31 35914691.40 0.3624 0.1738

Venus 93621-10-05 04:34 G 35915705.59 35915705.69 35915705.80 0.3751 0.2865

Mars 93623-02-01 04:05 G 35916189.56 35916189.67 35916189.78 0.1584 0.0517

Venus 93624-07-10 10:05 G 35916714.82 35916714.92 35916715.03 0.3623 0.0267

Jupiter 93624-08-27 05:31 G 35916762.57 35916762.73 35916762.89 0.0512 0.0274

Mars 93625-01-06 05:02 G 35916894.62 35916894.71 35916894.81 0.1582 0.0915

Mars 93627-10-17 20:10 G 35917909.33 35917909.34 35917909.35 0.1954 0.1946

Earth 93627-11-28 01:26 G 35917950.45 35917950.56 35917950.67 0.2634 0.0062

Moon 93627-11-28 02:10 G 35917950.48 35917950.59 35917950.70 0.2636 0.0156 *

Saturn 93628-08-15 09:50 G 35918211.91 35918211.91 35918211.92 0.0274 0.0273

Saturn 93628-11-11 20:10 G 35918300.23 35918300.34 35918300.45 0.0273 0.0150

Pluto 93629-01-07 00:58 G 35918356.48 35918356.54 35918356.66 0.0061 0.0054

Saturn 93629-02-08 06:29 G 35918388.64 35918388.77 35918388.90 0.0272 0.0028

Pluto 93629-04-05 02:38 G 35918444.48 35918444.61 35918444.75 0.0061 0.0043

Saturn 93629-05-07 16:48 G 35918477.08 35918477.20 35918477.32 0.0271 0.0093

Pluto 93629-07-02 03:36 G 35918532.51 35918532.65 35918532.82 0.0061 0.0032

Saturn 93629-08-04 02:53 G 35918565.55 35918565.62 35918565.71 0.0270 0.0213

Pluto 93629-09-28 05:02 G 35918620.54 35918620.71 35918620.88 0.0061 0.0022

Pluto 93629-12-25 06:00 G 35918708.58 35918708.75 35918708.94 0.0061 0.0011

Venus 93630-01-24 00:58 G 35918738.46 35918738.54 35918738.62 0.3622 0.2172

Pluto 93630-03-23 07:26 G 35918796.62 35918796.81 35918796.99 0.0061 0.0001

Jupiter 93630-04-22 04:19 G 35918826.59 35918826.68 35918826.78 0.0514 0.0346

Pluto 93630-06-19 08:10 G 35918884.67 35918884.84 35918885.04 0.0062 0.0011

Jupiter 93630-07-20 08:24 G 35918915.75 35918915.85 35918915.95 0.0512 0.0318

Pluto 93630-09-15 09:22 G 35918972.73 35918972.89 35918973.08 0.0062 0.0021

Pluto 93630-12-12 10:19 G 35919060.79 35919060.93 35919061.11 0.0062 0.0032

Pluto 93631-03-10 11:46 G 35919148.87 35919148.99 35919149.13 0.0062 0.0042

Moon 93631-06-02 16:34 G 35919233.11 35919233.19 35919233.27 0.2701 0.2289

Earth 93631-06-02 18:14 G 35919233.20 35919233.26 35919233.33 0.2700 0.2411 *

Pluto 93631-06-06 12:29 G 35919236.95 35919237.02 35919237.14 0.0062 0.0053

Mars 93632-06-23 15:50 G 35919620.07 35919620.16 35919620.26 0.1584 0.0860

Mars 93634-05-29 16:48 G 35920325.09 35920325.20 35920325.31 0.1582 0.0561

Jupiter 93636-09-13 14:53 G 35921163.06 35921163.12 35921163.18 0.0513 0.0482

Earth 93640-11-29 18:58 G 35922701.20 35922701.29 35922701.38 0.2633 0.1468

Moon 93640-11-29 19:41 G 35922701.23 35922701.32 35922701.41 0.2630 0.1621 *

Mars 93641-11-14 03:50 G 35923050.58 35923050.66 35923050.73 0.1585 0.1204

Jupiter 93642-02-08 09:22 G 35923136.87 35923136.89 35923136.91 0.0515 0.0504

Jupiter 93642-05-08 13:26 G 35923225.94 35923226.06 35923226.18 0.0513 0.0160

Mars 93643-10-20 04:34 G 35923755.57 35923755.69 35923755.81 0.1582 0.0212

Saturn 93645-02-18 08:10 G 35924242.71 35924242.84 35924243.00 0.0290 0.0186

Saturn 93645-05-18 09:50 G 35924331.72 35924331.91 35924332.09 0.0291 0.0033

Saturn 93645-08-15 11:02 G 35924420.87 35924420.96 35924421.05 0.0292 0.0252

Earth 93647-11-23 19:12 G 35925251.26 35925251.30 35925251.34 0.2636 0.2441

Moon 93647-11-23 19:12 G 35925251.27 35925251.30 35925251.33 0.2642 0.2507 *

Jupiter 93648-07-02 11:31 G 35925472.82 35925472.98 35925473.14 0.0513 0.0237

Mars 93648-07-06 13:55 G 35925476.93 35925477.08 35925477.23 0.1956 0.0848

Uranus 93650-04-18 17:17 G 35926128.16 35926128.22 35926128.28 0.0143 0.0127

Uranus 93650-07-15 20:53 G 35926216.28 35926216.37 35926216.46 0.0143 0.0105

Uranus 93650-10-12 00:14 G 35926304.41 35926304.51 35926304.62 0.0143 0.0084

Uranus 93651-01-08 03:50 G 35926392.54 35926392.66 35926392.78 0.0143 0.0062

Uranus 93651-04-06 07:26 G 35926480.68 35926480.81 35926480.93 0.0143 0.0040

Mars 93651-04-06 15:36 G 35926481.13 35926481.15 35926481.17 0.1587 0.1544

Uranus 93651-07-03 10:48 G 35926568.82 35926568.95 35926569.09 0.0143 0.0019

Uranus 93651-09-29 14:24 G 35926656.97 35926657.10 35926657.23 0.0143 0.0004

Uranus 93651-12-26 18:00 G 35926745.12 35926745.25 35926745.38 0.0143 0.0026

Uranus 93652-03-23 21:36 G 35926833.27 35926833.40 35926833.52 0.0143 0.0048

Uranus 93652-06-20 00:58 G 35926921.43 35926921.54 35926921.66 0.0143 0.0071

Uranus 93652-09-16 04:48 G 35927009.60 35927009.70 35927009.80 0.0143 0.0092

Uranus 93652-12-13 08:10 G 35927097.77 35927097.84 35927097.93 0.0143 0.0115

Uranus 93653-03-11 11:46 G 35927185.96 35927185.99 35927186.03 0.0143 0.0138

Mars 93653-03-11 16:19 G 35927186.06 35927186.18 35927186.29 0.1583 0.0143

Jupiter 93654-02-24 18:14 G 35927536.13 35927536.26 35927536.38 0.0513 0.0016

Mars 93655-02-14 17:31 G 35927891.17 35927891.23 35927891.30 0.1582 0.1301

Mars 93657-11-26 05:31 G 35928906.57 35928906.73 35928906.89 0.1955 0.0503

Saturn 93658-03-31 22:19 G 35929032.34 35929032.43 35929032.52 0.0274 0.0193

Saturn 93658-06-28 08:38 G 35929120.73 35929120.86 35929120.99 0.0273 0.0070

Saturn 93658-09-24 18:58 G 35929209.16 35929209.29 35929209.42 0.0271 0.0051

Saturn 93658-12-22 05:17 G 35929297.62 35929297.72 35929297.82 0.0270 0.0172

Jupiter 93660-04-20 07:26 G 35929782.62 35929782.81 35929783.00 0.0513 0.0018

Earth 93660-11-25 12:43 G 35930001.93 35930002.03 35930002.13 0.2635 0.1060

Moon 93660-11-25 13:12 G 35930001.94 35930002.05 35930002.15 0.2640 0.0988 *

Mars 93662-08-02 04:05 G 35930616.56 35930616.67 35930616.78 0.1584 0.0484

Moon 93664-05-30 16:34 G 35931284.03 35931284.19 35931284.34 0.2696 0.0337

Earth 93664-05-30 18:00 G 35931284.09 35931284.25 35931284.40 0.2699 0.0163 *

Mars 93664-07-07 05:02 G 35931321.62 35931321.71 35931321.81 0.1582 0.0944

Jupiter 93665-12-13 22:48 G 35931846.33 35931846.45 35931846.57 0.0513 0.0166

Jupiter 93666-03-13 02:53 G 35931935.60 35931935.62 35931935.65 0.0511 0.0496

Mars 93667-04-17 20:38 G 35932336.32 35932336.36 35932336.40 0.1954 0.1880

Neptune 93668-01-05 08:53 G 35932598.81 35932598.87 35932598.95 0.0090 0.0083

Neptune 93668-04-02 12:43 G 35932686.92 35932687.03 35932687.15 0.0090 0.0072

Neptune 93668-06-29 16:19 G 35932775.05 35932775.18 35932775.33 0.0090 0.0061

Neptune 93668-09-25 20:10 G 35932863.18 35932863.34 35932863.50 0.0090 0.0050

Neptune 93668-12-22 23:46 G 35932951.32 35932951.49 35932951.67 0.0090 0.0039

Neptune 93669-03-21 03:36 G 35933039.47 35933039.65 35933039.83 0.0090 0.0028

Neptune 93669-06-17 07:12 G 35933127.61 35933127.80 35933127.99 0.0090 0.0017

Neptune 93669-09-13 10:48 G 35933215.76 35933215.95 35933216.15 0.0090 0.0006

Neptune 93669-12-10 14:38 G 35933303.91 35933304.11 35933304.30 0.0090 0.0005

Venus 93670-01-16 01:55 G 35933340.52 35933340.58 35933340.63 0.3625 0.2978

Neptune 93670-03-08 18:14 G 35933392.07 35933392.26 35933392.45 0.0090 0.0016

Neptune 93670-06-04 21:50 G 35933480.23 35933480.41 35933480.59 0.0090 0.0027

Neptune 93670-09-01 01:26 G 35933568.39 35933568.56 35933568.74 0.0090 0.0038

Neptune 93670-11-28 04:48 G 35933656.55 35933656.70 35933656.87 0.0090 0.0049

Neptune 93671-02-24 08:24 G 35933744.72 35933744.85 35933745.01 0.0090 0.0060

Neptune 93671-05-23 12:00 G 35933832.90 35933833.00 35933833.13 0.0090 0.0071

Neptune 93671-08-19 15:22 G 35933921.08 35933921.14 35933921.24 0.0090 0.0082

Mars 93671-12-23 15:50 G 35934047.06 35934047.16 35934047.26 0.1584 0.0829

Jupiter 93672-02-07 03:50 G 35934092.51 35934092.66 35934092.82 0.0512 0.0264

Venus 93672-10-25 18:00 G 35934354.19 35934354.25 35934354.30 0.3749 0.3497

Mars 93673-11-27 16:48 G 35934752.09 35934752.20 35934752.31 0.1582 0.0595

Earth 93673-11-28 06:14 G 35934752.65 35934752.76 35934752.87 0.2634 0.0341

Moon 93673-11-28 06:58 G 35934752.68 35934752.79 35934752.90 0.2634 0.0450 *

Saturn 93674-07-08 05:46 G 35934974.66 35934974.74 35934974.84 0.0289 0.0252

Saturn 93674-10-05 07:12 G 35935063.62 35935063.80 35935063.99 0.0291 0.0035

Saturn 93675-01-02 08:24 G 35935152.71 35935152.85 35935153.00 0.0292 0.0184

Venus 93675-08-01 16:34 G 35935364.10 35935364.19 35935364.29 0.3624 0.1041

Moon 93677-06-02 23:17 G 35936035.46 35936035.47 35936035.49 0.2701 0.2676

Jupiter 93677-10-02 03:22 G 35936156.55 35936156.64 35936156.74 0.0514 0.0335

Jupiter 93677-12-30 07:12 G 35936245.71 35936245.80 35936245.90 0.0512 0.0328

Venus 93681-02-14 07:26 G 35937387.71 35937387.81 35937387.91 0.3623 0.0921

Mars 93681-05-15 03:50 G 35937477.58 35937477.66 35937477.73 0.1585 0.1172

Mars 93683-04-20 04:34 G 35938182.57 35938182.69 35938182.80 0.1583 0.0246

Jupiter 93683-11-26 00:14 G 35938402.51 35938402.51 35938402.52 0.0512 0.0511

Jupiter 93684-02-24 13:55 G 35938493.05 35938493.08 35938493.12 0.0514 0.0503

Venus 93686-08-30 22:19 G 35939411.37 35939411.43 35939411.49 0.3621 0.2871

Earth 93686-11-30 23:46 G 35939503.41 35939503.49 35939503.57 0.2633 0.1757

Moon 93686-12-01 00:29 G 35939503.44 35939503.52 35939503.60 0.2629 0.1800 *

Saturn 93687-08-19 00:43 G 35939764.46 35939764.53 35939764.60 0.0274 0.0232

Saturn 93687-11-15 11:02 G 35939852.84 35939852.96 35939853.08 0.0273 0.0109

Mars 93688-01-05 14:53 G 35939903.97 35939904.12 35939904.26 0.1956 0.0935

Saturn 93688-02-11 21:22 G 35939941.26 35939941.39 35939941.52 0.0272 0.0013

Saturn 93688-05-10 07:41 G 35940029.71 35940029.82 35940029.93 0.0271 0.0134

Saturn 93688-08-06 18:00 G 35940118.21 35940118.25 35940118.29 0.0270 0.0254

Jupiter 93689-07-21 07:55 G 35940466.81 35940466.83 35940466.86 0.0514 0.0500

Jupiter 93689-10-18 12:00 G 35940555.88 35940556.00 35940556.12 0.0513 0.0164

Mars 93690-10-05 15:36 G 35940908.12 35940908.15 35940908.18 0.1587 0.1511

Uranus 93691-08-11 23:17 G 35941218.39 35941218.47 35941218.59 0.0135 0.0115

Uranus 93691-11-08 06:58 G 35941306.65 35941306.79 35941306.95 0.0135 0.0087

Uranus 93692-02-04 14:24 G 35941394.93 35941395.10 35941395.28 0.0135 0.0059

Uranus 93692-05-02 21:50 G 35941483.23 35941483.41 35941483.60 0.0135 0.0032

Uranus 93692-07-30 05:17 G 35941571.53 35941571.72 35941571.91 0.0135 0.0005

Mars 93692-09-09 16:19 G 35941613.06 35941613.18 35941613.30 0.1583 0.0105

Uranus 93692-10-26 12:43 G 35941659.84 35941660.03 35941660.22 0.0135 0.0023

Uranus 93693-01-22 19:55 G 35941748.15 35941748.33 35941748.51 0.0135 0.0050

Uranus 93693-04-21 03:07 G 35941836.48 35941836.63 35941836.79 0.0135 0.0076

Uranus 93693-07-18 10:19 G 35941924.82 35941924.93 35941925.06 0.0135 0.0103

Uranus 93693-10-14 17:17 G 35942013.19 35942013.22 35942013.29 0.0135 0.0130

Moon 93693-11-24 00:00 G 35942053.44 35942053.50 35942053.57 0.2642 0.2112

Earth 93693-11-24 00:00 G 35942053.44 35942053.50 35942053.56 0.2635 0.2167 *

Mars 93694-08-15 17:31 G 35942318.17 35942318.23 35942318.29 0.1583 0.1335

Jupiter 93695-12-13 09:50 G 35942802.75 35942802.91 35942803.07 0.0513 0.0246

Mars 93697-05-27 06:29 G 35943333.60 35943333.77 35943333.93 0.1955 0.0418

Jupiter 93701-08-07 17:02 G 35944866.08 35944866.21 35944866.33 0.0513 0.0016

Mars 93702-02-01 04:05 G 35945043.56 35945043.67 35945043.78 0.1583 0.0451

Mars 93704-01-07 05:17 G 35945748.62 35945748.72 35945748.81 0.1582 0.0983

Saturn 93704-02-23 04:34 G 35945795.52 35945795.69 35945795.87 0.0290 0.0104

Saturn 93704-05-22 05:46 G 35945884.57 35945884.74 35945884.92 0.0291 0.0114

Mars 93706-10-17 21:50 G 35946763.34 35946763.41 35946763.48 0.1954 0.1779

Earth 93706-11-27 17:31 G 35946804.12 35946804.23 35946804.33 0.2634 0.0778

Moon 93706-11-27 18:00 G 35946804.14 35946804.25 35946804.35 0.2640 0.0750 *

Jupiter 93707-10-02 06:14 G 35947112.57 35947112.76 35947112.94 0.0513 0.0012

Moon 93710-06-01 22:48 G 35948086.30 35948086.45 35948086.61 0.2697 0.0216

Earth 93710-06-02 00:29 G 35948086.37 35948086.52 35948086.68 0.2699 0.0437 *

Mars 93711-06-24 15:50 G 35948474.06 35948474.16 35948474.26 0.1584 0.0799

Jupiter 93713-05-26 21:50 G 35949176.29 35949176.41 35949176.53 0.0513 0.0158

Mars 93713-05-29 16:48 G 35949179.09 35949179.20 35949179.31 0.1582 0.0626

Jupiter 93713-08-24 01:41 G 35949265.56 35949265.57 35949265.59 0.0511 0.0504

Saturn 93717-01-06 03:07 G 35950496.62 35950496.63 35950496.64 0.0275 0.0272

Saturn 93717-04-04 13:26 G 35950584.95 35950585.06 35950585.17 0.0273 0.0148

Saturn 93717-07-01 23:46 G 35950673.36 35950673.49 35950673.62 0.0272 0.0026

Saturn 93717-09-28 10:05 G 35950761.80 35950761.92 35950762.04 0.0271 0.0096

Saturn 93717-12-25 20:24 G 35950850.27 35950850.35 35950850.43 0.0270 0.0216

Jupiter 93719-07-21 01:41 G 35951422.41 35951422.57 35951422.73 0.0513 0.0265

Earth 93719-11-30 11:02 G 35951554.85 35951554.96 35951555.07 0.2633 0.0626

Moon 93719-11-30 11:46 G 35951554.88 35951554.99 35951555.10 0.2633 0.0749 *

Mars 93720-11-14 03:36 G 35951904.58 35951904.65 35951904.73 0.1585 0.1141

Pluto 93721-11-04 23:46 G 35952260.46 35952260.49 35952260.54 0.0083 0.0079

Pluto 93722-02-01 01:12 G 35952348.46 35952348.55 35952348.65 0.0083 0.0058

Pluto 93722-04-30 02:24 G 35952436.48 35952436.60 35952436.73 0.0083 0.0038

Pluto 93722-07-27 03:50 G 35952524.53 35952524.66 35952524.80 0.0083 0.0018

Mars 93722-10-20 04:34 G 35952609.57 35952609.69 35952609.80 0.1582 0.0281

Pluto 93722-10-23 05:17 G 35952612.58 35952612.72 35952612.86 0.0083 0.0003

Pluto 93723-01-19 06:29 G 35952700.64 35952700.77 35952700.91 0.0083 0.0021

Pluto 93723-04-17 07:26 G 35952788.70 35952788.81 35952788.95 0.0083 0.0042

Pluto 93723-07-14 09:07 G 35952876.79 35952876.88 35952876.97 0.0083 0.0061

Pluto 93723-10-10 10:05 G 35952964.91 35952964.92 35952964.96 0.0082 0.0081

Jupiter 93725-03-15 02:38 G 35953486.51 35953486.61 35953486.70 0.0513 0.0321

Jupiter 93725-06-12 06:29 G 35953575.68 35953575.77 35953575.86 0.0511 0.0341

Venus 93726-08-23 23:02 G 35954013.38 35954013.46 35954013.54 0.3625 0.2279

Mars 93727-07-07 15:22 G 35954331.00 35954331.14 35954331.28 0.1956 0.1003

Venus 93729-06-02 21:22 G 35955027.23 35955027.39 35955027.55 0.3750 0.0541

Mars 93730-04-06 15:36 G 35955335.11 35955335.15 35955335.19 0.1587 0.1482

Jupiter 93731-05-08 22:05 G 35955732.42 35955732.42 35955732.42 0.0512 0.0512

Jupiter 93731-08-07 12:00 G 35955822.97 35955823.00 35955823.03 0.0514 0.0504

Venus 93732-03-08 13:55 G 35956036.98 35956037.08 35956037.18 0.3623 0.0336

Mars 93732-03-11 16:19 G 35956040.06 35956040.18 35956040.29 0.1583 0.0083

Earth 93732-12-02 04:34 G 35956305.62 35956305.69 35956305.76 0.2633 0.2043

Moon 93732-12-02 05:02 G 35956305.65 35956305.71 35956305.78 0.2629 0.2143 *

Saturn 93733-07-12 03:07 G 35956527.47 35956527.63 35956527.79 0.0290 0.0162

Saturn 93733-10-09 04:19 G 35956616.50 35956616.68 35956616.87 0.0291 0.0056

Saturn 93734-01-06 05:31 G 35956705.67 35956705.73 35956705.79 0.0292 0.0274

Mars 93734-02-14 17:31 G 35956745.17 35956745.23 35956745.29 0.1582 0.1369

Uranus 93734-05-10 00:14 G 35956829.45 35956829.51 35956829.58 0.0143 0.0122

Uranus 93734-08-06 03:50 G 35956917.57 35956917.66 35956917.75 0.0143 0.0101

Uranus 93734-11-02 07:26 G 35957005.70 35957005.81 35957005.92 0.0143 0.0079

Uranus 93735-01-29 10:48 G 35957093.83 35957093.95 35957094.07 0.0143 0.0058

Uranus 93735-04-27 14:24 G 35957181.97 35957182.10 35957182.23 0.0143 0.0036

Uranus 93735-07-24 18:00 G 35957270.12 35957270.25 35957270.38 0.0143 0.0014

Uranus 93735-10-20 21:22 G 35957358.26 35957358.39 35957358.53 0.0143 0.0010

Uranus 93736-01-17 00:58 G 35957446.41 35957446.54 35957446.67 0.0143 0.0030

Uranus 93736-04-14 04:34 G 35957534.57 35957534.69 35957534.82 0.0143 0.0052

Uranus 93736-07-11 08:10 G 35957622.73 35957622.84 35957622.95 0.0143 0.0074

Uranus 93736-10-07 11:46 G 35957710.89 35957710.99 35957711.09 0.0143 0.0097

Mars 93736-11-26 07:26 G 35957760.65 35957760.81 35957760.97 0.1956 0.0324

Jupiter 93737-01-01 06:43 G 35957796.75 35957796.78 35957796.82 0.0514 0.0494

Uranus 93737-01-03 15:07 G 35957799.07 35957799.13 35957799.21 0.0143 0.0119

Jupiter 93737-03-31 10:48 G 35957885.83 35957885.95 35957886.07 0.0512 0.0169

Uranus 93737-04-01 18:58 G 35957887.27 35957887.29 35957887.31 0.0143 0.0141

Venus 93737-09-22 04:34 G 35958060.60 35958060.69 35958060.78 0.3622 0.1627

Earth 93739-11-26 04:48 G 35958855.62 35958855.70 35958855.78 0.2635 0.1888

Moon 93739-11-26 05:02 G 35958855.63 35958855.71 35958855.78 0.2642 0.1940 *

Mars 93741-08-02 04:05 G 35959470.55 35959470.67 35959470.78 0.1584 0.0420

Venus 93743-04-07 19:26 G 35960084.30 35960084.31 35960084.32 0.3621 0.3576

Jupiter 93743-05-26 08:24 G 35960132.69 35960132.85 35960133.01 0.0513 0.0256

Moon 93743-05-30 22:48 G 35960137.37 35960137.45 35960137.53 0.2692 0.2263

Earth 93743-05-30 23:46 G 35960137.40 35960137.49 35960137.58 0.2698 0.2209 *

Mars 93743-07-08 05:02 G 35960175.62 35960175.71 35960175.80 0.1582 0.1015

Mars 93746-04-17 22:34 G 35961190.36 35961190.44 35961190.52 0.1954 0.1698

Saturn 93746-08-22 16:05 G 35961317.08 35961317.17 35961317.27 0.0274 0.0184

Saturn 93746-11-19 02:24 G 35961405.48 35961405.60 35961405.73 0.0273 0.0062

Saturn 93747-02-15 12:43 G 35961493.91 35961494.03 35961494.16 0.0272 0.0062

Saturn 93747-05-14 23:02 G 35961582.37 35961582.46 35961582.56 0.0271 0.0182

Neptune 93748-10-21 18:14 G 35962108.25 35962108.26 35962108.30 0.0088 0.0087

Jupiter 93749-01-17 15:22 G 35962196.02 35962196.14 35962196.27 0.0513 0.0010

Neptune 93749-01-17 19:26 G 35962196.27 35962196.31 35962196.38 0.0088 0.0080 *

Neptune 93749-04-15 20:53 G 35962284.31 35962284.37 35962284.45 0.0088 0.0073

Neptune 93749-07-12 22:05 G 35962372.35 35962372.42 35962372.52 0.0088 0.0066

Neptune 93749-10-08 23:31 G 35962460.39 35962460.48 35962460.59 0.0088 0.0058

Neptune 93750-01-05 00:58 G 35962548.43 35962548.54 35962548.65 0.0088 0.0051

Neptune 93750-04-03 01:55 G 35962636.48 35962636.58 35962636.71 0.0088 0.0045

Neptune 93750-06-30 03:36 G 35962724.53 35962724.65 35962724.77 0.0088 0.0037

Neptune 93750-09-26 04:48 G 35962812.58 35962812.70 35962812.83 0.0088 0.0030

Neptune 93750-12-23 06:00 G 35962900.63 35962900.75 35962900.88 0.0088 0.0023

Mars 93750-12-23 15:50 G 35962901.06 35962901.16 35962901.26 0.1584 0.0762

Neptune 93751-03-21 07:26 G 35962988.68 35962988.81 35962988.94 0.0088 0.0016

Neptune 93751-06-17 08:38 G 35963076.73 35963076.86 35963076.99 0.0088 0.0009

Neptune 93751-09-13 09:50 G 35963164.78 35963164.91 35963165.05 0.0088 0.0004

Neptune 93751-12-10 11:17 G 35963252.84 35963252.97 35963253.10 0.0088 0.0005

Neptune 93752-03-07 12:29 G 35963340.89 35963341.02 35963341.16 0.0088 0.0013

Neptune 93752-06-03 13:41 G 35963428.95 35963429.07 35963429.21 0.0088 0.0020

Neptune 93752-08-30 15:07 G 35963517.00 35963517.13 35963517.26 0.0088 0.0027

Neptune 93752-11-26 16:19 G 35963605.06 35963605.18 35963605.31 0.0088 0.0034

Mars 93752-11-27 16:48 G 35963606.09 35963606.20 35963606.31 0.1582 0.0662

Earth 93752-11-27 22:19 G 35963606.32 35963606.43 35963606.54 0.2634 0.0498

Moon 93752-11-27 22:48 G 35963606.34 35963606.45 35963606.56 0.2638 0.0369 *

Neptune 93753-02-22 17:46 G 35963693.12 35963693.24 35963693.36 0.0088 0.0041

Neptune 93753-05-21 18:58 G 35963781.18 35963781.29 35963781.41 0.0088 0.0048

Neptune 93753-08-17 20:24 G 35963869.25 35963869.35 35963869.45 0.0088 0.0055

Neptune 93753-11-13 21:36 G 35963957.31 35963957.40 35963957.50 0.0088 0.0062

Neptune 93754-02-09 22:48 G 35964045.38 35964045.45 35964045.54 0.0088 0.0069

Neptune 93754-05-09 00:00 G 35964133.45 35964133.50 35964133.58 0.0088 0.0077

Neptune 93754-08-05 01:26 G 35964221.53 35964221.56 35964221.61 0.0088 0.0084

Jupiter 93755-03-14 03:50 G 35964442.48 35964442.66 35964442.85 0.0513 0.0013

Moon 93756-06-02 05:31 G 35964888.58 35964888.73 35964888.88 0.2698 0.0765

Earth 93756-06-02 07:12 G 35964888.66 35964888.80 35964888.94 0.2699 0.1035 *

Mars 93760-05-15 03:36 G 35966331.57 35966331.65 35966331.73 0.1585 0.1110

Jupiter 93760-11-05 20:10 G 35966506.22 35966506.34 35966506.46 0.0514 0.0159

Jupiter 93761-02-03 00:14 G 35966595.49 35966595.51 35966595.53 0.0512 0.0504

Mars 93762-04-20 04:34 G 35967036.57 35967036.69 35967036.80 0.1582 0.0316

Saturn 93762-11-29 01:12 G 35967259.44 35967259.55 35967259.68 0.0289 0.0223

Saturn 93763-02-26 02:38 G 35967348.42 35967348.61 35967348.80 0.0291 0.0007

Saturn 93763-05-26 03:50 G 35967437.54 35967437.66 35967437.79 0.0292 0.0212

Earth 93765-11-30 15:50 G 35968357.05 35968357.16 35968357.26 0.2633 0.0911

Moon 93765-11-30 16:34 G 35968357.09 35968357.19 35968357.29 0.2633 0.0995 *

Jupiter 93766-12-31 00:00 G 35968752.34 35968752.50 35968752.66 0.0512 0.0257

Mars 93767-01-05 16:19 G 35968758.05 35968758.18 35968758.32 0.1956 0.1096

Mars 93769-10-05 15:36 G 35969762.10 35969762.15 35969762.19 0.1587 0.1452

Mars 93771-09-10 16:05 G 35970467.06 35970467.17 35970467.29 0.1583 0.0071

Jupiter 93772-08-25 00:58 G 35970816.45 35970816.54 35970816.64 0.0514 0.0319

Jupiter 93772-11-22 05:02 G 35970905.62 35970905.71 35970905.80 0.0512 0.0343

Mars 93773-08-15 17:31 G 35971172.18 35971172.23 35971172.28 0.1582 0.1405

Uranus 93775-09-02 06:14 G 35971919.65 35971919.76 35971919.87 0.0135 0.0109

Uranus 93775-11-29 13:26 G 35972007.92 35972008.06 35972008.23 0.0135 0.0082

Saturn 93776-01-09 18:58 G 35972049.21 35972049.29 35972049.36 0.0274 0.0221

Uranus 93776-02-25 20:53 G 35972096.21 35972096.37 35972096.56 0.0135 0.0055

Saturn 93776-04-07 05:17 G 35972137.60 35972137.72 35972137.84 0.0273 0.0097

Uranus 93776-05-24 04:34 G 35972184.50 35972184.69 35972184.88 0.0135 0.0026

Mars 93776-05-27 08:10 G 35972187.67 35972187.84 35972188.00 0.1956 0.0253

Saturn 93776-07-04 15:36 G 35972226.02 35972226.15 35972226.28 0.0272 0.0026

Uranus 93776-08-20 12:00 G 35972272.81 35972273.00 35972273.19 0.0135 0.0001

Saturn 93776-10-01 01:55 G 35972314.47 35972314.58 35972314.69 0.0271 0.0147

Uranus 93776-11-16 19:12 G 35972361.12 35972361.30 35972361.50 0.0135 0.0028

Saturn 93776-12-28 12:14 G 35972403.00 35972403.01 35972403.02 0.0270 0.0268

Uranus 93777-02-13 02:38 G 35972449.44 35972449.61 35972449.79 0.0135 0.0055

Uranus 93777-05-12 09:50 G 35972537.76 35972537.91 35972538.07 0.0135 0.0082

Uranus 93777-08-08 17:02 G 35972626.11 35972626.21 35972626.33 0.0135 0.0109

Venus 93777-09-14 05:31 G 35972662.71 35972662.73 35972662.75 0.3626 0.3516

Earth 93778-12-03 09:22 G 35973107.84 35973107.89 35973107.94 0.2632 0.2334

Moon 93778-12-03 09:50 G 35973107.86 35973107.91 35973107.95 0.2627 0.2384 *

Jupiter 93779-01-17 08:53 G 35973152.83 35973152.87 35973152.93 0.0514 0.0494

Mars 93781-01-31 04:05 G 35973897.55 35973897.67 35973897.78 0.1583 0.0389

Mars 93783-01-06 05:02 G 35974602.62 35974602.71 35974602.80 0.1582 0.1047

Venus 93783-03-30 20:24 G 35974686.26 35974686.35 35974686.44 0.3624 0.1581

Jupiter 93784-06-13 05:46 G 35975126.70 35975126.74 35975126.78 0.0514 0.0482

Jupiter 93784-09-10 09:36 G 35975215.79 35975215.90 35975216.02 0.0512 0.0180

Mars 93785-10-16 23:17 G 35975617.38 35975617.47 35975617.56 0.1955 0.1621

Earth 93785-11-26 09:36 G 35975657.81 35975657.90 35975657.99 0.2635 0.1609

Moon 93785-11-26 09:50 G 35975657.82 35975657.91 35975657.99 0.2642 0.1531 *

Venus 93786-01-08 00:43 G 35975700.40 35975700.53 35975700.65 0.3751 0.2388

Venus 93788-10-13 11:02 G 35976709.86 35976709.96 35976710.06 0.3623 0.0389

Moon 93789-05-31 05:17 G 35976939.61 35976939.72 35976939.83 0.2694 0.1872

Earth 93789-05-31 06:29 G 35976939.65 35976939.77 35976939.90 0.2698 0.1593 *

Mars 93790-06-23 15:50 G 35977328.05 35977328.16 35977328.26 0.1584 0.0734

Jupiter 93790-11-05 05:31 G 35977462.57 35977462.73 35977462.89 0.0514 0.0246

Saturn 93792-04-17 00:29 G 35977991.47 35977991.52 35977991.58 0.0289 0.0274

Mars 93792-05-28 16:48 G 35978033.09 35978033.20 35978033.30 0.1582 0.0696

Saturn 93792-07-15 01:55 G 35978080.39 35978080.58 35978080.76 0.0290 0.0058

Saturn 93792-10-12 02:53 G 35978169.48 35978169.62 35978169.79 0.0291 0.0161

Venus 93794-04-29 01:55 G 35978733.50 35978733.58 35978733.66 0.3622 0.2329

Jupiter 93796-06-29 13:55 G 35979525.95 35979526.08 35979526.21 0.0513 0.0007

Earth 93798-11-29 03:07 G 35980408.52 35980408.63 35980408.74 0.2634 0.0214

Moon 93798-11-29 03:50 G 35980408.55 35980408.66 35980408.77 0.2636 0.0199 *

Mars 93799-11-14 03:36 G 35980758.57 35980758.65 35980758.74 0.1585 0.1076

Mars 93801-10-20 04:19 G 35981463.57 35981463.68 35981463.80 0.1582 0.0347

Moon 93802-06-04 12:14 G 35981690.88 35981691.01 35981691.14 0.2698 0.1442

Earth 93802-06-04 13:55 G 35981690.96 35981691.08 35981691.20 0.2699 0.1633 *

Jupiter 93802-08-25 01:55 G 35981772.39 35981772.58 35981772.76 0.0513 0.0012

Saturn 93805-05-29 21:50 G 35982781.37 35982781.41 35982781.46 0.0275 0.0253

Saturn 93805-08-26 08:10 G 35982869.73 35982869.84 35982869.96 0.0273 0.0129

Saturn 93805-11-22 18:29 G 35982958.14 35982958.27 35982958.41 0.0272 0.0011

Saturn 93806-02-19 04:48 G 35983046.59 35983046.70 35983046.82 0.0271 0.0116

Saturn 93806-05-18 15:07 G 35983135.07 35983135.13 35983135.20 0.0270 0.0237

Mars 93806-07-07 17:17 G 35983185.09 35983185.22 35983185.35 0.1956 0.1190

Jupiter 93808-04-18 18:29 G 35983836.15 35983836.27 35983836.39 0.0513 0.0164

Jupiter 93808-07-16 22:34 G 35983925.41 35983925.44 35983925.46 0.0511 0.0498

Mars 93809-04-06 15:36 G 35984189.10 35984189.15 35984189.20 0.1586 0.1419

Mars 93811-03-12 16:19 G 35984894.06 35984894.18 35984894.29 0.1583 0.0058

Earth 93811-12-02 20:38 G 35985159.26 35985159.36 35985159.46 0.2633 0.1196

Moon 93811-12-02 21:22 G 35985159.29 35985159.39 35985159.48 0.2632 0.1337 *

Mars 93813-02-14 17:31 G 35985599.18 35985599.23 35985599.28 0.1582 0.1439

Jupiter 93814-06-12 21:22 G 35986082.23 35986082.39 35986082.55 0.0512 0.0263

Mars 93815-11-27 08:53 G 35986614.71 35986614.87 35986615.04 0.1956 0.0166

Uranus 93818-03-04 04:05 G 35987442.65 35987442.67 35987442.71 0.0142 0.0138

Uranus 93818-05-31 07:41 G 35987530.75 35987530.82 35987530.90 0.0143 0.0116

Uranus 93818-08-27 11:17 G 35987618.87 35987618.97 35987619.07 0.0143 0.0095

Uranus 93818-11-23 14:38 G 35987707.00 35987707.11 35987707.23 0.0143 0.0073

Uranus 93819-02-19 18:14 G 35987795.14 35987795.26 35987795.38 0.0143 0.0052

Uranus 93819-05-18 21:50 G 35987883.28 35987883.41 35987883.54 0.0143 0.0030

Uranus 93819-08-15 01:12 G 35987971.42 35987971.55 35987971.69 0.0143 0.0009

Uranus 93819-11-11 04:48 G 35988059.57 35988059.70 35988059.83 0.0143 0.0014

Jupiter 93820-02-05 23:17 G 35988146.37 35988146.47 35988146.56 0.0514 0.0328

Uranus 93820-02-07 08:24 G 35988147.72 35988147.85 35988147.98 0.0143 0.0036

Jupiter 93820-05-05 03:07 G 35988235.54 35988235.63 35988235.73 0.0512 0.0336

Uranus 93820-05-05 12:00 G 35988235.88 35988236.00 35988236.12 0.0143 0.0058

Uranus 93820-08-01 15:36 G 35988324.04 35988324.15 35988324.26 0.0143 0.0080

Mars 93820-08-02 04:05 G 35988324.55 35988324.67 35988324.78 0.1583 0.0358

Uranus 93820-10-28 19:12 G 35988412.21 35988412.30 35988412.39 0.0143 0.0102

Uranus 93821-01-24 22:48 G 35988500.38 35988500.45 35988500.51 0.0143 0.0125

Saturn 93821-12-03 01:12 G 35988812.38 35988812.55 35988812.73 0.0290 0.0111

Saturn 93822-03-02 02:24 G 35988901.43 35988901.60 35988901.78 0.0291 0.0107

Mars 93822-07-08 05:02 G 35989029.63 35989029.71 35989029.80 0.1582 0.1085

Earth 93824-12-04 14:09 G 35989910.09 35989910.09 35989910.10 0.2632 0.2623

Mars 93825-04-18 00:29 G 35990044.41 35990044.52 35990044.62 0.1954 0.1531

Jupiter 93826-06-30 06:57 G 35990482.74 35990482.79 35990482.84 0.0514 0.0494

Mars 93829-12-23 15:36 G 35991755.05 35991755.15 35991755.26 0.1584 0.0704

Jupiter 93831-11-25 04:05 G 35992456.63 35992456.67 35992456.71 0.0514 0.0487

Earth 93831-11-28 14:24 G 35992460.00 35992460.10 35992460.19 0.2635 0.1330

Moon 93831-11-28 14:38 G 35992460.02 35992460.11 35992460.20 0.2641 0.1351 *

Mars 93831-11-28 16:48 G 35992460.09 35992460.20 35992460.30 0.1582 0.0729 *

Jupiter 93832-02-22 08:09 G 35992545.72 35992545.84 35992545.96 0.0512 0.0175

Neptune 93832-07-07 03:36 G 35992681.65 35992681.65 35992681.67 0.0090 0.0089

Neptune 93832-10-03 06:57 G 35992769.72 35992769.79 35992769.90 0.0090 0.0079

Neptune 93832-12-30 10:48 G 35992857.84 35992857.95 35992858.09 0.0090 0.0068

Neptune 93833-03-28 14:24 G 35992945.97 35992946.10 35992946.27 0.0090 0.0057

Neptune 93833-06-24 18:14 G 35993034.10 35993034.26 35993034.44 0.0090 0.0046

Neptune 93833-09-20 21:50 G 35993122.24 35993122.41 35993122.60 0.0090 0.0035

Neptune 93833-12-18 01:41 G 35993210.39 35993210.57 35993210.76 0.0090 0.0024

Neptune 93834-03-16 05:17 G 35993298.54 35993298.72 35993298.92 0.0090 0.0013

Venus 93834-04-22 02:53 G 35993335.55 35993335.62 35993335.68 0.3625 0.2813

Neptune 93834-06-12 09:07 G 35993386.69 35993386.88 35993387.07 0.0090 0.0002

Neptune 93834-09-08 12:43 G 35993474.84 35993475.03 35993475.22 0.0090 0.0009

Neptune 93834-12-05 16:19 G 35993563.00 35993563.18 35993563.37 0.0090 0.0020

Saturn 93835-01-13 11:17 G 35993601.86 35993601.97 35993602.07 0.0274 0.0161

Neptune 93835-03-03 19:41 G 35993651.15 35993651.32 35993651.52 0.0090 0.0032

Saturn 93835-04-11 21:36 G 35993690.27 35993690.40 35993690.53 0.0273 0.0038

Neptune 93835-05-30 23:31 G 35993739.32 35993739.48 35993739.66 0.0090 0.0042

Moon 93835-06-02 11:45 G 35993741.84 35993741.99 35993742.13 0.2695 0.1085

Earth 93835-06-02 13:12 G 35993741.91 35993742.05 35993742.20 0.2698 0.0990 *

Saturn 93835-07-09 07:55 G 35993778.71 35993778.83 35993778.96 0.0272 0.0084

Neptune 93835-08-27 03:07 G 35993827.48 35993827.63 35993827.79 0.0090 0.0053

Saturn 93835-10-05 18:14 G 35993867.18 35993867.26 35993867.35 0.0271 0.0205

Neptune 93835-11-23 06:43 G 35993915.65 35993915.78 35993915.92 0.0090 0.0064

Neptune 93836-02-19 10:05 G 35994003.83 35994003.92 35994004.04 0.0090 0.0075

Neptune 93836-05-17 13:41 G 35994092.03 35994092.07 35994092.14 0.0090 0.0086

Jupiter 93838-04-18 02:09 G 35994792.42 35994792.59 35994792.75 0.0514 0.0227

Mars 93839-05-16 03:36 G 35995185.56 35995185.65 35995185.74 0.1585 0.1044

Venus 93839-11-05 17:31 G 35995359.13 35995359.23 35995359.33 0.3624 0.0865

Mars 93841-04-20 04:19 G 35995890.57 35995890.68 35995890.80 0.1582 0.0377

Jupiter 93843-12-11 12:43 G 35996855.90 35996856.03 35996856.16 0.0512 0.0013

Earth 93844-11-30 07:55 G 35997210.72 35997210.83 35997210.94 0.2634 0.0076

Moon 93844-11-30 08:38 G 35997210.75 35997210.86 35997210.97 0.2636 0.0247 *

Venus 93845-05-21 08:24 G 35997382.75 35997382.85 35997382.94 0.3622 0.1089

Mars 93846-01-05 17:45 G 35997612.11 35997612.24 35997612.37 0.1957 0.1252

Moon 93848-06-04 18:57 G 35998493.18 35998493.29 35998493.40 0.2699 0.1940

Earth 93848-06-04 20:38 G 35998493.27 35998493.36 35998493.44 0.2699 0.2238 *

Mars 93848-10-05 15:21 G 35998616.09 35998616.14 35998616.20 0.1586 0.1389

Jupiter 93850-02-03 22:19 G 35999102.25 35999102.43 35999102.62 0.0513 0.0025

Mars 93850-09-10 16:05 G 35999321.06 35999321.17 35999321.29 0.1583 0.0061

Venus 93850-12-04 23:17 G 35999406.41 35999406.47 35999406.52 0.3621 0.3041

Saturn 93851-04-22 00:57 G 35999544.38 35999544.54 35999544.70 0.0289 0.0157

Saturn 93851-07-20 02:09 G 35999633.41 35999633.59 35999633.78 0.0290 0.0060

Saturn 93851-10-17 03:21 G 35999722.59 35999722.64 35999722.70 0.0292 0.0278

Mars 93852-08-15 17:31 G 36000026.19 36000026.23 36000026.27 0.1582 0.1474

Mars 93855-05-28 10:05 G 36001041.75 36001041.92 36001042.08 0.1956 0.0078

Jupiter 93855-09-29 16:48 G 36001166.08 36001166.20 36001166.32 0.0513 0.0168

Jupiter 93855-12-27 20:53 G 36001255.34 36001255.37 36001255.40 0.0511 0.0494

Earth 93857-12-03 01:26 G 36001961.47 36001961.56 36001961.65 0.2633 0.1485

Moon 93857-12-03 01:55 G 36001961.49 36001961.58 36001961.67 0.2631 0.1526 *

Uranus 93859-06-27 05:17 G 36002532.68 36002532.72 36002532.78 0.0136 0.0131

Uranus 93859-09-23 12:57 G 36002620.92 36002621.04 36002621.17 0.0136 0.0103

Uranus 93859-12-20 20:24 G 36002709.20 36002709.35 36002709.52 0.0135 0.0075

Mars 93860-02-01 03:50 G 36002751.55 36002751.66 36002751.78 0.1583 0.0325

Uranus 93860-03-18 03:50 G 36002797.49 36002797.66 36002797.85 0.0135 0.0048

Uranus 93860-06-14 11:31 G 36002885.79 36002885.98 36002886.17 0.0135 0.0020

Uranus 93860-09-10 18:57 G 36002974.09 36002974.29 36002974.48 0.0135 0.0008

Uranus 93860-12-08 02:09 G 36003062.41 36003062.59 36003062.78 0.0135 0.0035

Uranus 93861-03-06 09:21 G 36003150.73 36003150.89 36003151.07 0.0135 0.0062

Uranus 93861-06-02 16:33 G 36003239.06 36003239.19 36003239.35 0.0135 0.0089

Uranus 93861-08-30 00:14 G 36003327.41 36003327.51 36003327.61 0.0135 0.0116

Jupiter 93861-11-22 18:43 G 36003412.12 36003412.28 36003412.44 0.0512 0.0270

Mars 93862-01-06 05:02 G 36003456.63 36003456.71 36003456.79 0.1582 0.1118

Saturn 93864-06-01 14:24 G 36004334.01 36004334.10 36004334.20 0.0274 0.0191

Saturn 93864-08-29 00:43 G 36004422.41 36004422.53 36004422.66 0.0273 0.0068

Mars 93864-10-17 01:12 G 36004471.44 36004471.55 36004471.66 0.1954 0.1442

Saturn 93864-11-25 11:17 G 36004510.84 36004510.97 36004511.10 0.0272 0.0056

Moon 93864-11-26 01:41 G 36004511.53 36004511.57 36004511.60 0.2643 0.2481

Earth 93864-11-26 01:41 G 36004511.53 36004511.57 36004511.61 0.2636 0.2440 *

Saturn 93865-02-21 21:21 G 36004599.30 36004599.39 36004599.50 0.0271 0.0177

Jupiter 93867-07-18 21:21 G 36005476.30 36005476.39 36005476.48 0.0514 0.0337

Jupiter 93867-10-16 01:12 G 36005565.46 36005565.55 36005565.65 0.0512 0.0326

Mars 93869-06-23 15:50 G 36006182.05 36006182.16 36006182.26 0.1584 0.0668

Mars 93871-05-29 16:48 G 36006887.09 36006887.20 36006887.30 0.1582 0.0765

Jupiter 93873-12-10 03:50 G 36007812.61 36007812.66 36007812.73 0.0513 0.0482

Pluto 93874-09-08 14:09 G 36008085.04 36008085.09 36008085.20 0.0061 0.0056

Pluto 93874-12-05 15:50 G 36008173.04 36008173.16 36008173.29 0.0061 0.0044

Pluto 93875-03-03 16:48 G 36008261.06 36008261.20 36008261.37 0.0061 0.0034

Pluto 93875-05-30 18:14 G 36008349.10 36008349.26 36008349.44 0.0061 0.0023

Pluto 93875-08-26 19:12 G 36008437.14 36008437.30 36008437.49 0.0061 0.0014

Pluto 93875-11-22 20:38 G 36008525.18 36008525.36 36008525.55 0.0061 0.0003

Pluto 93876-02-18 21:50 G 36008613.23 36008613.41 36008613.59 0.0061 0.0008

Pluto 93876-05-16 23:02 G 36008701.29 36008701.46 36008701.64 0.0062 0.0019

Pluto 93876-08-13 00:00 G 36008789.35 36008789.50 36008789.67 0.0062 0.0030

Pluto 93876-11-09 01:12 G 36008877.42 36008877.55 36008877.70 0.0062 0.0040

Pluto 93877-02-05 02:09 G 36008965.51 36008965.59 36008965.71 0.0062 0.0051

Pluto 93877-05-04 03:21 G 36009053.64 36009053.64 36009053.68 0.0062 0.0062

Earth 93877-11-28 19:12 G 36009262.20 36009262.30 36009262.40 0.2635 0.1052

Moon 93877-11-28 19:26 G 36009262.21 36009262.31 36009262.42 0.2640 0.0968 *

Mars 93878-11-14 03:36 G 36009612.56 36009612.65 36009612.74 0.1585 0.1014

Jupiter 93879-05-07 01:55 G 36009786.56 36009786.58 36009786.61 0.0515 0.0502

Jupiter 93879-08-04 06:00 G 36009875.63 36009875.75 36009875.87 0.0513 0.0161

Saturn 93880-09-08 00:43 G 36010276.41 36010276.53 36010276.67 0.0289 0.0206

Mars 93880-10-19 04:19 G 36010317.57 36010317.68 36010317.80 0.1582 0.0414

Saturn 93880-12-06 02:09 G 36010365.40 36010365.59 36010365.78 0.0290 0.0012

Saturn 93881-03-05 03:07 G 36010454.53 36010454.63 36010454.75 0.0292 0.0230

Moon 93881-06-02 18:29 G 36010544.11 36010544.27 36010544.42 0.2695 0.0717

Earth 93881-06-02 19:55 G 36010544.18 36010544.33 36010544.49 0.2698 0.0377 *

Mars 93885-07-06 18:57 G 36012039.17 36012039.29 36012039.41 0.1957 0.1352

Jupiter 93885-09-27 23:45 G 36012122.32 36012122.49 36012122.66 0.0513 0.0224

Mars 93888-04-05 15:21 G 36013043.08 36013043.14 36013043.20 0.1586 0.1358

Mars 93890-03-11 16:05 G 36013748.05 36013748.17 36013748.29 0.1583 0.0059

Venus 93890-11-27 00:00 G 36014008.42 36014008.50 36014008.58 0.3625 0.2101

Earth 93890-12-01 12:43 G 36014012.92 36014013.03 36014013.14 0.2634 0.0359

Moon 93890-12-01 13:26 G 36014012.95 36014013.06 36014013.17 0.2636 0.0402 *

Jupiter 93891-05-23 10:48 G 36014185.82 36014185.95 36014186.08 0.0513 0.0006

Mars 93892-02-14 17:31 G 36014453.19 36014453.23 36014453.26 0.1582 0.1509

Venus 93893-09-05 17:17 G 36015022.06 36015022.22 36015022.37 0.3750 0.1071

Saturn 93893-10-19 17:45 G 36015066.17 36015066.24 36015066.32 0.0274 0.0220

Saturn 93894-01-16 04:05 G 36015154.55 36015154.67 36015154.80 0.0273 0.0097

Saturn 93894-04-14 14:24 G 36015242.97 36015243.10 36015243.24 0.0272 0.0028

Saturn 93894-07-12 00:43 G 36015331.43 36015331.53 36015331.64 0.0271 0.0148

Saturn 93894-10-08 11:02 G 36015419.96 36015419.96 36015419.98 0.0270 0.0269

Mars 93894-11-26 10:33 G 36015468.78 36015468.94 36015469.11 0.1956 0.0032

Venus 93896-06-11 14:53 G 36016032.02 36016032.12 36016032.22 0.3623 0.0177

Jupiter 93897-07-16 18:43 G 36016432.09 36016432.28 36016432.46 0.0513 0.0047

Mars 93899-08-02 03:50 G 36017178.55 36017178.66 36017178.78 0.1583 0.0290

Mars 93901-07-08 05:02 G 36017883.63 36017883.71 36017883.79 0.1582 0.1150

Venus 93901-12-27 05:31 G 36018055.65 36018055.73 36018055.82 0.3622 0.1796

Uranus 93902-03-25 11:45 G 36018143.95 36018143.99 36018144.05 0.0142 0.0131

Uranus 93902-06-21 15:21 G 36018232.06 36018232.14 36018232.23 0.0142 0.0109

Uranus 93902-09-17 18:57 G 36018320.19 36018320.29 36018320.40 0.0142 0.0087

Uranus 93902-12-14 22:19 G 36018408.32 36018408.43 36018408.55 0.0143 0.0066

Jupiter 93903-03-12 15:36 G 36018496.03 36018496.15 36018496.27 0.0513 0.0164

Uranus 93903-03-13 01:55 G 36018496.46 36018496.58 36018496.71 0.0143 0.0044

Uranus 93903-06-09 05:31 G 36018584.60 36018584.73 36018584.86 0.0143 0.0022

Jupiter 93903-06-09 19:26 G 36018585.29 36018585.31 36018585.34 0.0511 0.0497

Uranus 93903-09-05 09:07 G 36018672.74 36018672.88 36018673.01 0.0143 0.0004

Uranus 93903-12-02 12:29 G 36018760.89 36018761.02 36018761.15 0.0143 0.0022

Earth 93903-12-05 06:14 G 36018763.68 36018763.76 36018763.84 0.2633 0.1769

Moon 93903-12-05 06:43 G 36018763.71 36018763.78 36018763.86 0.2629 0.1909 *

Uranus 93904-02-28 16:05 G 36018849.05 36018849.17 36018849.30 0.0143 0.0044

Mars 93904-04-18 01:55 G 36018898.46 36018898.58 36018898.70 0.1955 0.1370

Uranus 93904-05-26 19:41 G 36018937.20 36018937.32 36018937.44 0.0143 0.0066

Uranus 93904-08-22 23:02 G 36019025.37 36019025.46 36019025.57 0.0143 0.0088

Uranus 93904-11-19 02:38 G 36019113.54 36019113.61 36019113.70 0.0143 0.0110

Uranus 93905-02-15 06:14 G 36019201.72 36019201.76 36019201.82 0.0143 0.0132

Mars 93908-12-23 15:36 G 36020609.05 36020609.15 36020609.26 0.1584 0.0637

Jupiter 93909-05-05 14:53 G 36020741.97 36020742.12 36020742.27 0.0512 0.0297

Saturn 93910-01-27 00:43 G 36021008.44 36021008.53 36021008.63 0.0289 0.0250

Saturn 93910-04-26 02:09 G 36021097.40 36021097.59 36021097.78 0.0290 0.0033

Saturn 93910-07-24 03:21 G 36021186.50 36021186.64 36021186.78 0.0291 0.0184

Moon 93910-11-28 06:29 G 36021313.71 36021313.77 36021313.83 0.2643 0.2182

Earth 93910-11-28 06:29 G 36021313.71 36021313.77 36021313.83 0.2636 0.2160 *

Mars 93910-11-28 16:48 G 36021314.09 36021314.20 36021314.30 0.1582 0.0800

Neptune 93913-07-20 18:00 G 36022279.22 36022279.25 36022279.29 0.0088 0.0084

Neptune 93913-10-16 19:12 G 36022367.25 36022367.30 36022367.37 0.0088 0.0077

Neptune 93914-01-12 20:24 G 36022455.28 36022455.35 36022455.44 0.0088 0.0070

Neptune 93914-04-10 21:50 G 36022543.32 36022543.41 36022543.50 0.0088 0.0063

Neptune 93914-07-07 23:02 G 36022631.37 36022631.46 36022631.57 0.0088 0.0056

Neptune 93914-10-04 00:14 G 36022719.41 36022719.51 36022719.63 0.0088 0.0049

Jupiter 93914-12-29 19:26 G 36022806.22 36022806.31 36022806.41 0.0514 0.0343

Neptune 93914-12-31 01:41 G 36022807.46 36022807.57 36022807.69 0.0088 0.0042

Jupiter 93915-03-28 23:31 G 36022895.38 36022895.48 36022895.58 0.0512 0.0319

Neptune 93915-03-29 02:53 G 36022895.51 36022895.62 36022895.75 0.0088 0.0035 *

Neptune 93915-06-25 04:19 G 36022983.55 36022983.68 36022983.81 0.0088 0.0028

Neptune 93915-09-21 05:31 G 36023071.60 36023071.73 36023071.86 0.0088 0.0021

Neptune 93915-12-18 06:57 G 36023159.66 36023159.79 36023159.92 0.0088 0.0014

Neptune 93916-03-15 08:09 G 36023247.71 36023247.84 36023247.98 0.0088 0.0007

Neptune 93916-06-11 09:36 G 36023335.76 36023335.90 36023336.03 0.0088 0.0003

Neptune 93916-09-07 10:48 G 36023423.82 36023423.95 36023424.08 0.0088 0.0008

Neptune 93916-12-04 12:00 G 36023511.87 36023512.00 36023512.14 0.0088 0.0015

Neptune 93917-03-02 13:26 G 36023599.93 36023600.06 36023600.19 0.0088 0.0022

Neptune 93917-05-29 14:38 G 36023687.99 36023688.11 36023688.24 0.0088 0.0029

Neptune 93917-08-25 15:50 G 36023776.05 36023776.16 36023776.29 0.0088 0.0036

Neptune 93917-11-21 17:02 G 36023864.11 36023864.21 36023864.34 0.0088 0.0044

Neptune 93918-02-17 18:29 G 36023952.17 36023952.27 36023952.38 0.0088 0.0050

Mars 93918-05-16 03:36 G 36024039.56 36024039.65 36024039.74 0.1585 0.0980

Neptune 93918-05-16 19:41 G 36024040.23 36024040.32 36024040.43 0.0088 0.0058

Neptune 93918-08-12 21:07 G 36024128.30 36024128.38 36024128.47 0.0088 0.0065

Neptune 93918-11-08 22:19 G 36024216.36 36024216.43 36024216.51 0.0088 0.0072

Neptune 93919-02-04 23:45 G 36024304.44 36024304.49 36024304.55 0.0088 0.0079

Neptune 93919-05-04 01:12 G 36024392.53 36024392.55 36024392.57 0.0088 0.0086

Mars 93920-04-20 04:19 G 36024744.57 36024744.68 36024744.79 0.1582 0.0444

Jupiter 93921-05-23 00:57 G 36025142.48 36025142.54 36025142.62 0.0514 0.0472

Saturn 93923-03-09 21:21 G 36025798.34 36025798.39 36025798.44 0.0275 0.0247

Saturn 93923-06-06 07:41 G 36025886.70 36025886.82 36025886.94 0.0274 0.0123

Saturn 93923-09-02 18:00 G 36025975.12 36025975.25 36025975.38 0.0272 0.0003

Saturn 93923-11-30 04:19 G 36026063.56 36026063.68 36026063.80 0.0271 0.0122

Earth 93923-12-01 00:00 G 36026064.39 36026064.50 36026064.60 0.2635 0.0772

Moon 93923-12-01 00:29 G 36026064.41 36026064.52 36026064.63 0.2639 0.0712 *

Saturn 93924-02-26 14:38 G 36026152.06 36026152.11 36026152.17 0.0270 0.0243

Mars 93925-01-05 19:41 G 36026466.21 36026466.32 36026466.43 0.1957 0.1438

Jupiter 93926-10-18 00:00 G 36027116.50 36027116.50 36027116.50 0.0514 0.0513

Jupiter 93927-01-15 03:50 G 36027205.54 36027205.66 36027205.79 0.0512 0.0150

Moon 93927-06-05 00:57 G 36027346.39 36027346.54 36027346.70 0.2695 0.0138

Earth 93927-06-05 02:38 G 36027346.46 36027346.61 36027346.77 0.2699 0.0229 *

Mars 93927-10-06 15:21 G 36027470.08 36027470.14 36027470.20 0.1586 0.1324

Mars 93929-09-10 16:05 G 36028175.06 36028175.17 36028175.29 0.1583 0.0103

Mars 93931-08-16 17:31 G 36028880.21 36028880.23 36028880.25 0.1582 0.1545

Jupiter 93933-03-10 20:38 G 36029452.19 36029452.36 36029452.53 0.0513 0.0211

Mars 93934-05-28 11:31 G 36029895.81 36029895.98 36029896.14 0.1956 0.0093

Earth 93936-12-02 17:31 G 36030815.12 36030815.23 36030815.33 0.2634 0.0641

Moon 93936-12-02 18:00 G 36030815.15 36030815.25 36030815.36 0.2635 0.0794 *

Jupiter 93938-11-03 08:38 G 36031515.73 36031515.86 36031515.98 0.0513 0.0022

Mars 93939-02-01 03:50 G 36031605.54 36031605.66 36031605.78 0.1583 0.0256

Saturn 93939-09-13 02:24 G 36031829.42 36031829.60 36031829.78 0.0290 0.0079

Saturn 93939-12-11 03:36 G 36031918.49 36031918.65 36031918.82 0.0291 0.0139

Mars 93941-01-06 05:02 G 36032310.63 36032310.71 36032310.79 0.1582 0.1189

Venus 93941-12-19 06:29 G 36032657.73 36032657.77 36032657.81 0.3626 0.3333

Uranus 93943-07-18 12:00 G 36033233.94 36033234.00 36033234.09 0.0136 0.0125

Uranus 93943-10-14 19:41 G 36033322.19 36033322.32 36033322.46 0.0135 0.0097

Mars 93943-10-18 03:07 G 36033325.50 36033325.63 36033325.75 0.1955 0.1271

Uranus 93944-01-11 03:07 G 36033410.47 36033410.63 36033410.80 0.0135 0.0069

Uranus 93944-04-08 10:48 G 36033498.76 36033498.95 36033499.13 0.0135 0.0042

Uranus 93944-07-05 18:14 G 36033587.07 36033587.26 36033587.45 0.0135 0.0014

Uranus 93944-10-02 01:41 G 36033675.38 36033675.57 36033675.76 0.0135 0.0013

Jupiter 93944-12-27 16:19 G 36033761.99 36033762.18 36033762.36 0.0512 0.0050

Uranus 93944-12-29 08:53 G 36033763.69 36033763.87 36033764.06 0.0135 0.0041

Uranus 93945-03-27 16:19 G 36033852.02 36033852.18 36033852.35 0.0135 0.0068

Uranus 93945-06-23 23:45 G 36033940.35 36033940.49 36033940.62 0.0135 0.0095

Uranus 93945-09-20 06:57 G 36034028.71 36034028.79 36034028.87 0.0135 0.0121

Venus 93947-07-04 21:21 G 36034681.29 36034681.39 36034681.48 0.3624 0.1403

Mars 93948-06-23 15:36 G 36035036.04 36035036.15 36035036.26 0.1584 0.0605

Earth 93949-12-05 11:02 G 36035565.89 36035565.96 36035566.03 0.2633 0.2058

Moon 93949-12-05 11:31 G 36035565.91 36035565.98 36035566.05 0.2628 0.2066 *

Venus 93950-04-13 20:38 G 36035695.22 36035695.36 36035695.50 0.3750 0.1884

Mars 93950-05-29 16:33 G 36035741.09 36035741.19 36035741.29 0.1582 0.0832

Jupiter 93950-08-22 13:26 G 36035825.94 36035826.06 36035826.18 0.0514 0.0177

Jupiter 93950-11-19 17:31 G 36035915.19 36035915.23 36035915.27 0.0511 0.0485

Saturn 93952-10-23 11:02 G 36036618.85 36036618.96 36036619.07 0.0273 0.0151

Venus 93953-01-17 12:00 G 36036704.90 36036705.00 36036705.10 0.3623 0.0559

Saturn 93953-01-19 21:21 G 36036707.26 36036707.39 36036707.52 0.0272 0.0028

Saturn 93953-04-18 07:41 G 36036795.70 36036795.82 36036795.94 0.0271 0.0094

Saturn 93953-07-15 18:00 G 36036884.17 36036884.25 36036884.33 0.0270 0.0215

Jupiter 93956-10-15 11:02 G 36038071.82 36038071.96 36038072.11 0.0512 0.0322

Moon 93956-11-28 11:17 G 36038115.90 36038115.97 36038116.05 0.2642 0.1863

Earth 93956-11-28 11:17 G 36038115.90 36038115.97 36038116.05 0.2636 0.1880 *

Mars 93957-11-14 03:36 G 36038466.55 36038466.65 36038466.74 0.1585 0.0950

Venus 93958-08-03 02:53 G 36038728.55 36038728.62 36038728.69 0.3622 0.2493

Mars 93959-10-20 04:19 G 36039171.57 36039171.68 36039171.79 0.1582 0.0478

Moon 93960-06-02 00:43 G 36039397.48 36039397.53 36039397.57 0.2692 0.2582

Earth 93960-06-02 01:55 G 36039397.51 36039397.58 36039397.64 0.2697 0.2427 *

Jupiter 93962-06-10 18:14 G 36040136.16 36040136.26 36040136.35 0.0514 0.0341

Jupiter 93962-09-07 22:05 G 36040225.33 36040225.42 36040225.52 0.0512 0.0321

Mars 93964-07-06 20:24 G 36040893.24 36040893.35 36040893.45 0.1957 0.1508

Mars 93967-04-06 15:21 G 36041897.07 36041897.14 36041897.20 0.1586 0.1294

Pluto 93967-10-03 16:05 G 36042077.09 36042077.17 36042077.25 0.0083 0.0066

Pluto 93967-12-30 17:17 G 36042165.11 36042165.22 36042165.34 0.0083 0.0046

Pluto 93968-03-27 18:43 G 36042253.15 36042253.28 36042253.41 0.0083 0.0026

Pluto 93968-06-23 19:55 G 36042341.20 36042341.33 36042341.47 0.0083 0.0006

Pluto 93968-09-19 21:21 G 36042429.25 36042429.39 36042429.53 0.0083 0.0014

Jupiter 93968-11-01 21:07 G 36042472.30 36042472.38 36042472.48 0.0514 0.0444

Pluto 93968-12-16 22:33 G 36042517.32 36042517.44 36042517.57 0.0083 0.0034

Saturn 93969-01-30 02:09 G 36042561.42 36042561.59 36042561.76 0.0289 0.0125

Mars 93969-03-11 16:05 G 36042602.05 36042602.17 36042602.29 0.1583 0.0128

Pluto 93969-03-14 23:45 G 36042605.39 36042605.49 36042605.60 0.0083 0.0054

Saturn 93969-04-29 03:21 G 36042650.46 36042650.64 36042650.82 0.0290 0.0092

Pluto 93969-06-11 00:57 G 36042693.49 36042693.54 36042693.61 0.0083 0.0073

Earth 93969-12-01 04:48 G 36042866.59 36042866.70 36042866.81 0.2635 0.0488

Moon 93969-12-01 05:17 G 36042866.61 36042866.72 36042866.83 0.2639 0.0400 *

Mars 93971-02-14 17:31 G 36043307.22 36043307.23 36043307.23 0.1582 0.1580

Moon 93973-06-05 07:55 G 36044148.67 36044148.83 36044148.98 0.2697 0.0543

Earth 93973-06-05 09:21 G 36044148.74 36044148.89 36044149.04 0.2699 0.0843 *

Mars 93973-11-26 12:29 G 36044322.86 36044323.02 36044323.19 0.1956 0.0196

Jupiter 93974-06-27 02:09 G 36044535.47 36044535.59 36044535.71 0.0512 0.0141

Mars 93978-08-02 03:50 G 36046032.54 36046032.66 36046032.78 0.1583 0.0222

Mars 93980-07-07 05:02 G 36046737.64 36046737.71 36046737.78 0.1582 0.1221

Jupiter 93980-08-20 17:45 G 36046782.07 36046782.24 36046782.41 0.0513 0.0199

Saturn 93982-03-12 14:38 G 36047351.01 36047351.11 36047351.21 0.0274 0.0177

Saturn 93982-06-09 00:57 G 36047439.41 36047439.54 36047439.67 0.0273 0.0054

Saturn 93982-09-05 11:17 G 36047527.84 36047527.97 36047528.10 0.0272 0.0068

Saturn 93982-12-02 21:36 G 36047616.31 36047616.40 36047616.49 0.0271 0.0190

Earth 93982-12-03 22:19 G 36047617.32 36047617.43 36047617.53 0.2634 0.0925

Moon 93982-12-03 22:48 G 36047617.35 36047617.45 36047617.56 0.2633 0.0992 *

Mars 93983-04-18 03:50 G 36047752.53 36047752.66 36047752.79 0.1955 0.1191

Uranus 93986-04-14 19:41 G 36048845.26 36048845.32 36048845.39 0.0142 0.0122

Jupiter 93986-04-15 06:29 G 36048845.65 36048845.77 36048845.90 0.0513 0.0034

Uranus 93986-07-11 23:02 G 36048933.38 36048933.46 36048933.56 0.0142 0.0101

Uranus 93986-10-08 02:38 G 36049021.51 36049021.61 36049021.72 0.0143 0.0080

Uranus 93987-01-04 06:14 G 36049109.64 36049109.76 36049109.88 0.0143 0.0058

Uranus 93987-04-02 09:36 G 36049197.78 36049197.90 36049198.03 0.0143 0.0037

Uranus 93987-06-29 13:12 G 36049285.92 36049286.05 36049286.18 0.0143 0.0015

Uranus 93987-09-25 16:48 G 36049374.07 36049374.20 36049374.33 0.0143 0.0008

Uranus 93987-12-22 20:09 G 36049462.22 36049462.34 36049462.48 0.0143 0.0030

Mars 93987-12-23 15:36 G 36049463.04 36049463.15 36049463.26 0.1584 0.0569

Uranus 93988-03-19 23:45 G 36049550.37 36049550.49 36049550.62 0.0143 0.0051

Uranus 93988-06-16 03:21 G 36049638.53 36049638.64 36049638.76 0.0143 0.0073

Uranus 93988-09-12 06:43 G 36049726.69 36049726.78 36049726.89 0.0143 0.0096

Uranus 93988-12-09 10:19 G 36049814.87 36049814.93 36049815.01 0.0143 0.0118

Uranus 93989-03-07 13:55 G 36049903.07 36049903.08 36049903.11 0.0143 0.0140

Mars 93989-11-27 16:33 G 36050168.10 36050168.19 36050168.29 0.1582 0.0869

Jupiter 93992-06-08 13:26 G 36051091.87 36051092.06 36051092.24 0.0512 0.0062

Earth 93995-12-06 15:50 G 36052368.11 36052368.16 36052368.21 0.2633 0.2344

Moon 93995-12-06 16:19 G 36052368.15 36052368.18 36052368.21 0.2628 0.2472 *

Neptune 93997-04-04 01:41 G 36052852.53 36052852.57 36052852.65 0.0090 0.0085

Mars 93997-05-15 03:21 G 36052893.55 36052893.64 36052893.74 0.1585 0.0920

Neptune 93997-07-01 05:31 G 36052940.63 36052940.73 36052940.85 0.0090 0.0074

Neptune 93997-09-27 09:07 G 36053028.76 36053028.88 36053029.03 0.0090 0.0063

Neptune 93997-12-24 12:57 G 36053116.89 36053117.04 36053117.21 0.0090 0.0052

Jupiter 93998-02-01 11:02 G 36053155.85 36053155.96 36053156.08 0.0514 0.0197

Neptune 93998-03-22 16:33 G 36053205.03 36053205.19 36053205.38 0.0090 0.0041

Jupiter 93998-05-01 15:07 G 36053245.08 36053245.13 36053245.18 0.0512 0.0467

Neptune 93998-06-18 20:24 G 36053293.17 36053293.35 36053293.54 0.0090 0.0030

Saturn 93998-06-19 01:55 G 36053293.44 36053293.58 36053293.74 0.0290 0.0174 *

Venus 93998-07-26 03:36 G 36053330.59 36053330.65 36053330.72 0.3625 0.2638

Neptune 93998-09-15 00:00 G 36053381.32 36053381.50 36053381.70 0.0090 0.0019

Saturn 93998-09-16 03:21 G 36053382.46 36053382.64 36053382.83 0.0291 0.0045

Neptune 93998-12-12 03:50 G 36053469.47 36053469.66 36053469.85 0.0090 0.0008

Saturn 93998-12-14 04:33 G 36053471.62 36053471.69 36053471.77 0.0292 0.0263

Neptune 93999-03-10 07:26 G 36053557.62 36053557.81 36053558.01 0.0090 0.0004

Mars 93999-04-20 04:19 G 36053598.57 36053598.68 36053598.79 0.1582 0.0513

Neptune 93999-06-06 11:02 G 36053645.78 36053645.96 36053646.16 0.0090 0.0014

Neptune 93999-09-02 14:53 G 36053733.93 36053734.12 36053734.30 0.0090 0.0025

Neptune 93999-11-29 18:14 G 36053822.09 36053822.26 36053822.45 0.0090 0.0036

Neptune 94000-02-25 21:50 G 36053910.26 36053910.41 36053910.58 0.0090 0.0047

Neptune 94000-05-24 01:26 G 36053998.42 36053998.56 36053998.72 0.0090 0.0058

Neptune 94000-08-20 04:48 G 36054086.60 36054086.70 36054086.85 0.0090 0.0069

Neptune 94000-11-16 08:24 G 36054174.79 36054174.85 36054174.96 0.0090 0.0080

95TH MILLENNIUM CE

This is a list of transits of Mercury in the 95th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	**94002-11-29 16:05**	**G**	**36054918.08**	**36054918.17**	**36054918.26**	**0.2635**	**0.1600**	
Moon	**94002-11-29 16:19**	**G**	**36054918.09**	**36054918.18**	**36054918.27**	**0.2641**	**0.1617**	*
Mars	**94004-01-05 21:21**	**G**	**36055320.30**	**36055320.39**	**36055320.48**	**0.1957**	**0.1603**	
Venus	**94004-02-08 18:29**	**G**	**36055354.17**	**36055354.27**	**36055354.37**	**0.3624**	**0.0690**	
Jupiter	**94004-03-27 08:53**	**G**	**36055401.73**	**36055401.87**	**36055402.01**	**0.0512**	**0.0322**	
Moon	**94006-06-03 07:12**	**G**	**36056199.70**	**36056199.80**	**36056199.91**	**0.2692**	**0.1977**	
Earth	**94006-06-03 08:38**	**G**	**36056199.74**	**36056199.86**	**36056199.97**	**0.2698**	**0.1817**	*
Mars	**94006-10-05 15:21**	**G**	**36056324.07**	**36056324.14**	**36056324.21**	**0.1586**	**0.1263**	
Mars	**94008-09-09 16:05**	**G**	**36057029.05**	**36057029.17**	**36057029.29**	**0.1582**	**0.0161**	
Venus	**94009-08-24 09:21**	**G**	**36057377.79**	**36057377.89**	**36057377.98**	**0.3623**	**0.1253**	
Jupiter	**94009-11-20 16:05**	**G**	**36057466.08**	**36057466.17**	**36057466.26**	**0.0514**	**0.0355**	
Jupiter	**94010-02-17 19:55**	**G**	**36057555.24**	**36057555.33**	**36057555.44**	**0.0512**	**0.0308**	
Saturn	**94011-07-30 18:00**	**G**	**36058083.17**	**36058083.25**	**36058083.34**	**0.0274**	**0.0204**	
Saturn	**94011-10-27 04:19**	**G**	**36058171.56**	**36058171.68**	**36058171.81**	**0.0273**	**0.0081**	

Saturn 94012-01-23 14:38 G 36058259.98 36058260.11 36058260.24 0.0272 0.0042

Saturn 94012-04-21 00:57 G 36058348.44 36058348.54 36058348.65 0.0271 0.0163

Mars 94013-05-27 13:12 G 36058749.88 36058750.05 36058750.21 0.1956 0.0259

Venus 94015-03-10 00:00 G 36059401.46 36059401.50 36059401.55 0.3622 0.3198

Earth 94015-12-02 09:36 G 36059668.79 36059668.90 36059669.01 0.2634 0.0216

Moon 94015-12-02 10:05 G 36059668.81 36059668.92 36059669.03 0.2639 0.0110 *

Jupiter 94016-04-13 17:31 G 36059802.13 36059802.23 36059802.34 0.0513 0.0422

Mars 94018-01-31 03:50 G 36060459.54 36060459.66 36060459.78 0.1583 0.0190

Moon 94019-06-06 14:24 G 36060950.96 36060951.10 36060951.24 0.2699 0.1266

Earth 94019-06-06 16:05 G 36060951.04 36060951.17 36060951.30 0.2699 0.1451 *

Mars 94020-01-06 05:02 G 36061164.64 36061164.71 36061164.78 0.1582 0.1255

Jupiter 94021-12-07 00:43 G 36061865.41 36061865.53 36061865.65 0.0513 0.0144

Mars 94022-10-17 04:33 G 36062179.56 36062179.69 36062179.83 0.1955 0.1107

Mars 94027-06-23 15:36 G 36063890.04 36063890.15 36063890.26 0.1584 0.0538

Uranus 94027-08-07 19:26 G 36063935.22 36063935.31 36063935.41 0.0135 0.0117

Uranus 94027-11-04 02:53 G 36064023.48 36064023.62 36064023.78 0.0135 0.0089

Saturn 94027-11-06 01:12 G 36064025.44 36064025.55 36064025.68 0.0289 0.0223

Uranus 94028-01-31 10:19 G 36064111.77 36064111.93 36064112.11 0.0135 0.0062

Jupiter 94028-01-31 13:55 G 36064111.91 36064112.08 36064112.26 0.0513 0.0173 *

Saturn 94028-02-03 02:53 G 36064114.43 36064114.62 36064114.80 0.0290 0.0008

Uranus 94028-04-28 18:00 G 36064200.07 36064200.25 36064200.44 0.0135 0.0034

Saturn 94028-05-02 03:50 G 36064203.54 36064203.66 36064203.79 0.0291 0.0213

Uranus 94028-07-26 01:26 G 36064288.37 36064288.56 36064288.76 0.0135 0.0007

Uranus 94028-10-22 08:53 G 36064376.68 36064376.87 36064377.06 0.0135 0.0021

Earth 94028-12-04 03:07 G 36064419.53 36064419.63 36064419.72 0.2634 0.1212

Moon 94028-12-04 03:36 G 36064419.56 36064419.65 36064419.75 0.2631 0.1323 *

Uranus 94029-01-18 16:05 G 36064465.00 36064465.17 36064465.36 0.0135 0.0049

Uranus 94029-04-16 23:31 G 36064553.33 36064553.48 36064553.65 0.0135 0.0075

Mars 94029-05-28 16:33 G 36064595.10 36064595.19 36064595.29 0.1582 0.0903

Uranus 94029-07-14 06:43 G 36064641.67 36064641.78 36064641.92 0.0135 0.0103

Uranus 94029-10-10 13:55 G 36064730.04 36064730.08 36064730.15 0.0135 0.0129

Jupiter 94033-09-25 04:48 G 36066175.57 36066175.70 36066175.82 0.0513 0.0037

Mars 94036-11-13 03:21 G 36067320.55 36067320.64 36067320.74 0.1585 0.0885

Mars 94038-10-19 04:19 G 36068025.57 36068025.68 36068025.79 0.1582 0.0547

Jupiter 94039-11-19 10:33 G 36068421.76 36068421.94 36068422.13 0.0513 0.0071

Saturn 94040-12-16 21:36 G 36068815.34 36068815.40 36068815.47 0.0274 0.0232

Saturn 94041-03-15 07:55 G 36068903.71 36068903.83 36068903.95 0.0273 0.0108

Saturn 94041-06-11 18:14 G 36068992.13 36068992.26 36068992.39 0.0272 0.0016

Saturn 94041-09-08 04:33 G 36069080.58 36069080.69 36069080.80 0.0271 0.0136

Saturn 94041-12-05 14:53 G 36069169.08 36069169.12 36069169.16 0.0270 0.0257

Mars 94043-07-06 22:19 G 36069747.35 36069747.43 36069747.51 0.1957 0.1692

Jupiter 94045-07-14 09:07 G 36070485.77 36070485.88 36070486.00 0.0514 0.0206

Jupiter 94045-10-11 13:12 G 36070575.00 36070575.05 36070575.11 0.0512 0.0456

Mars 94046-04-05 15:21 G 36070751.06 36070751.14 36070751.21 0.1586 0.1230

Mars 94048-03-10 16:05 G 36071456.05 36071456.17 36071456.29 0.1582 0.0196

Earth 94048-11-29 20:53 G 36071720.27 36071720.37 36071720.46 0.2635 0.1323

Moon 94048-11-29 21:07 G 36071720.29 36071720.38 36071720.48 0.2641 0.1223 *

Jupiter 94051-09-07 06:14 G 36072731.62 36072731.76 36072731.91 0.0512 0.0328

Moon 94052-06-03 13:55 G 36073001.95 36073002.08 36073002.22 0.2693 0.1414

Earth 94052-06-03 15:21 G 36073002.00 36073002.14 36073002.28 0.2698 0.1195 *

Mars 94052-11-25 14:09 G 36073176.92 36073177.09 36073177.25 0.1956 0.0352

Venus 94055-03-02 00:57 G 36074003.45 36074003.54 36074003.62 0.3625 0.1932

Mars 94055-08-27 03:07 G 36074181.62 36074181.63 36074181.64 0.1587 0.1576

Saturn 94057-03-25 00:29 G 36074757.48 36074757.52 36074757.59 0.0289 0.0276

Jupiter 94057-05-02 13:55 G 36074795.99 36074796.08 36074796.16 0.0514 0.0373

Saturn 94057-06-22 02:09 G 36074846.41 36074846.59 36074846.78 0.0290 0.0058

Jupiter 94057-07-30 17:45 G 36074885.14 36074885.24 36074885.35 0.0512 0.0291

Mars 94057-08-01 03:50 G 36074886.54 36074886.66 36074886.77 0.1583 0.0164

Saturn 94057-09-19 03:36 G 36074935.49 36074935.65 36074935.80 0.0291 0.0161

Venus 94057-12-09 13:12 G 36075016.90 36075017.05 36075017.20 0.3749 0.1550

Mars 94059-07-07 05:02 G 36075591.64 36075591.71 36075591.78 0.1582 0.1293

Venus 94060-09-14 15:36 G 36076027.05 36076027.15 36076027.25 0.3624 0.0141

Earth 94061-12-02 14:24 G 36076470.98 36076471.10 36076471.21 0.2634 0.0128

Moon 94061-12-02 14:53 G 36076471.01 36076471.12 36076471.23 0.2637 0.0146 *

Mars 94062-04-17 05:31 G 36076606.59 36076606.73 36076606.87 0.1955 0.1020

Jupiter 94063-09-24 15:36 G 36077132.06 36077132.15 36077132.26 0.0513 0.0426

Moon 94065-06-06 20:53 G 36077753.26 36077753.37 36077753.49 0.2700 0.1795

Earth 94065-06-06 22:48 G 36077753.35 36077753.45 36077753.55 0.2699 0.2047 *

Venus 94066-03-31 06:29 G 36078050.69 36078050.77 36078050.85 0.3622 0.1947

Mars 94066-12-22 15:36 G 36078317.04 36078317.15 36078317.26 0.1584 0.0508

Mars 94068-11-26 16:33 G 36079022.10 36079022.19 36079022.29 0.1582 0.0934

Jupiter 94069-05-18 22:48 G 36079195.33 36079195.45 36079195.57 0.0513 0.0132

Uranus 94070-02-05 23:45 G 36079458.46 36079458.49 36079458.53 0.0142 0.0137

Uranus 94070-05-05 03:21 G 36079546.57 36079546.64 36079546.72 0.0142 0.0116

Saturn 94070-05-06 00:57 G 36079547.50 36079547.54 36079547.58 0.0274 0.0260

Uranus 94070-08-01 06:43 G 36079634.69 36079634.78 36079634.88 0.0142 0.0094

Saturn 94070-08-02 11:17 G 36079635.86 36079635.97 36079636.08 0.0273 0.0136

Uranus 94070-10-28 10:19 G 36079722.82 36079722.93 36079723.04 0.0143 0.0073

Saturn 94070-10-29 21:36 G 36079724.27 36079724.40 36079724.53 0.0272 0.0014

Uranus 94071-01-24 13:41 G 36079810.95 36079811.07 36079811.20 0.0143 0.0051

Saturn 94071-01-26 07:55 G 36079812.71 36079812.83 36079812.95 0.0271 0.0108

Uranus 94071-04-22 17:17 G 36079899.09 36079899.22 36079899.35 0.0143 0.0029

Saturn 94071-04-24 18:00 G 36079901.19 36079901.25 36079901.33 0.0270 0.0229

Uranus 94071-07-19 20:53 G 36079987.24 36079987.37 36079987.50 0.0143 0.0008

Uranus 94071-10-16 00:14 G 36080075.38 36080075.51 36080075.65 0.0143 0.0015

Uranus 94072-01-12 03:50 G 36080163.53 36080163.66 36080163.79 0.0143 0.0036

Uranus 94072-04-09 07:26 G 36080251.69 36080251.81 36080251.93 0.0143 0.0058

Uranus 94072-07-06 11:02 G 36080339.85 36080339.96 36080340.07 0.0143 0.0080

Uranus 94072-10-02 14:38 G 36080428.02 36080428.11 36080428.20 0.0143 0.0102

Uranus 94072-12-29 18:00 G 36080516.19 36080516.25 36080516.32 0.0143 0.0125

Earth 94074-12-05 07:55 G 36081221.74 36081221.83 36081221.92 0.2633 0.1498

Moon 94074-12-05 08:38 G 36081221.77 36081221.86 36081221.94 0.2631 0.1602 *

Jupiter 94075-07-13 10:48 G 36081441.78 36081441.95 36081442.13 0.0513 0.0158

Mars 94076-05-14 03:21 G 36081747.54 36081747.64 36081747.74 0.1585 0.0852

Neptune 94078-01-18 16:33 G 36082362.19 36082362.19 36082362.19 0.0088 0.0088

Neptune 94078-04-16 17:31 G 36082450.19 36082450.23 36082450.29 0.0088 0.0081

Mars 94078-04-19 04:19 G 36082452.57 36082452.68 36082452.79 0.1582 0.0581

Neptune 94078-07-13 18:57 G 36082538.23 36082538.29 36082538.36 0.0088 0.0074

Neptune 94078-10-09 20:09 G 36082626.26 36082626.34 36082626.43 0.0088 0.0067

Neptune 94079-01-05 21:21 G 36082714.30 36082714.39 36082714.50 0.0088 0.0060

Neptune 94079-04-03 22:48 G 36082802.35 36082802.45 36082802.56 0.0088 0.0053

Neptune 94079-07-01 00:00 G 36082890.39 36082890.50 36082890.62 0.0088 0.0046

Neptune 94079-09-27 01:12 G 36082978.44 36082978.55 36082978.68 0.0088 0.0039

Neptune 94079-12-24 02:38 G 36083066.49 36083066.61 36083066.74 0.0088 0.0032

Neptune 94080-03-21 03:50 G 36083154.54 36083154.66 36083154.80 0.0088 0.0025

Neptune 94080-06-17 05:17 G 36083242.59 36083242.72 36083242.85 0.0088 0.0018

Neptune 94080-09-13 06:29 G 36083330.64 36083330.77 36083330.91 0.0088 0.0011

Neptune 94080-12-10 07:55 G 36083418.70 36083418.83 36083418.96 0.0088 0.0004

Jupiter 94081-03-07 03:36 G 36083505.52 36083505.65 36083505.77 0.0513 0.0032

Neptune 94081-03-08 09:07 G 36083506.75 36083506.88 36083507.02 0.0088 0.0004

Neptune 94081-06-04 10:33 G 36083594.81 36083594.94 36083595.07 0.0088 0.0011

Neptune 94081-08-31 11:45 G 36083682.86 36083682.99 36083683.12 0.0088 0.0018

Neptune 94081-11-27 12:57 G 36083770.92 36083771.04 36083771.17 0.0088 0.0025

Moon 94081-11-28 08:09 G 36083771.79 36083771.84 36083771.88 0.2642 0.2411

Earth 94081-11-28 08:09 G 36083771.81 36083771.84 36083771.88 0.2636 0.2432 *

Neptune 94082-02-23 14:24 G 36083858.98 36083859.10 36083859.22 0.0088 0.0032

Neptune 94082-05-22 15:21 G 36083947.03 36083947.14 36083947.27 0.0088 0.0040

Neptune 94082-08-18 16:48 G 36084035.10 36084035.20 36084035.32 0.0088 0.0047

Neptune 94082-11-14 18:00 G 36084123.16 36084123.25 36084123.37 0.0088 0.0054

Mars 94083-01-04 22:48 G 36084174.38 36084174.45 36084174.52 0.1957 0.1760

Neptune 94083-02-10 19:26 G 36084211.22 36084211.31 36084211.41 0.0088 0.0061

Neptune 94083-05-09 20:38 G 36084299.29 36084299.36 36084299.45 0.0088 0.0068

Neptune 94083-08-05 22:05 G 36084387.36 36084387.42 36084387.49 0.0088 0.0075

Neptune 94083-11-01 23:17 G 36084475.44 36084475.47 36084475.52 0.0088 0.0082

Mars 94085-10-04 15:07 G 36085178.06 36085178.13 36085178.21 0.1586 0.1200

Saturn 94086-11-09 00:43 G 36085578.36 36085578.53 36085578.70 0.0290 0.0116

Saturn 94087-02-06 01:55 G 36085667.41 36085667.58 36085667.76 0.0291 0.0103

Jupiter 94087-05-01 07:12 G 36085751.62 36085751.80 36085751.99 0.0512 0.0091

Mars 94087-09-09 16:05 G 36085883.05 36085883.17 36085883.28 0.1582 0.0231

Mars 94092-05-26 15:07 G 36087603.97 36087604.13 36087604.29 0.1957 0.0443

Jupiter 94092-12-24 07:41 G 36087815.70 36087815.82 36087815.93 0.0514 0.0210

Jupiter 94093-03-23 11:31 G 36087904.93 36087904.98 36087905.04 0.0512 0.0452

Earth 94094-12-01 01:41 G 36088522.47 36088522.57 36088522.67 0.2635 0.1042

Moon 94094-12-01 01:55 G 36088522.48 36088522.58 36088522.68 0.2641 0.1057 *

Mars 94095-02-25 03:07 G 36088608.61 36088608.63 36088608.65 0.1587 0.1541

Mars 94097-01-30 03:50 G 36089313.54 36089313.66 36089313.77 0.1583 0.0132

Moon 94098-06-04 20:24 G 36089804.20 36089804.35 36089804.51 0.2695 0.0721

Earth 94098-06-04 22:05 G 36089804.27 36089804.42 36089804.57 0.2698 0.0589 *

Mars 94099-01-05 05:02 G 36090018.65 36090018.71 36090018.77 0.1582 0.1327

Jupiter 94099-02-17 03:50 G 36090061.52 36090061.66 36090061.81 0.0512 0.0332

Saturn 94099-12-20 14:38 G 36090368.01 36090368.11 36090368.22 0.0274 0.0165

Saturn 94100-03-19 00:57 G 36090456.41 36090456.54 36090456.67 0.0273 0.0042

Saturn 94100-06-15 11:17 G 36090544.85 36090544.97 36090545.10 0.0272 0.0080

Saturn 94100-09-11 21:21 G 36090633.31 36090633.39 36090633.49 0.0271 0.0202

Mars 94101-10-17 06:29 G 36091033.62 36091033.77 36091033.92 0.1955 0.0930

Jupiter 94104-10-13 12:14 G 36092125.92 36092126.01 36092126.09 0.0514 0.0377

Jupiter 94105-01-10 16:05 G 36092215.07 36092215.17 36092215.28 0.0512 0.0285

Venus 94106-03-24 07:26 G 36092652.76 36092652.81 36092652.85 0.3626 0.3170

Mars 94106-06-23 15:36 G 36092744.04 36092744.15 36092744.26 0.1584 0.0471

Earth 94107-12-04 19:12 G 36093273.19 36093273.30 36093273.40 0.2634 0.0378

Moon 94107-12-04 19:41 G 36093273.21 36093273.32 36093273.43 0.2635 0.0518 *

Mars 94108-05-28 16:33 G 36093449.10 36093449.19 36093449.28 0.1582 0.0972

Jupiter 94111-03-07 13:41 G 36094461.97 36094462.07 36094462.17 0.0513 0.0427

Moon 94111-06-09 03:36 G 36094555.59 36094555.65 36094555.72 0.2700 0.2413

Earth 94111-06-09 05:31 G 36094555.70 36094555.73 36094555.75 0.2699 0.2655 *

Uranus 94111-08-29 02:24 G 36094636.50 36094636.60 36094636.73 0.0135 0.0110

Venus 94111-10-07 22:05 G 36094676.33 36094676.42 36094676.52 0.3624 0.1236

Uranus 94111-11-25 10:05 G 36094724.77 36094724.92 36094725.08 0.0135 0.0082

Uranus 94112-02-21 17:31 G 36094813.06 36094813.23 36094813.41 0.0135 0.0054

Uranus 94112-05-20 01:12 G 36094901.36 36094901.55 36094901.74 0.0135 0.0027

Uranus 94112-08-16 08:38 G 36094989.66 36094989.86 36094990.05 0.0135 0.0002

Uranus 94112-11-12 15:50 G 36095077.98 36095078.16 36095078.35 0.0135 0.0028

Uranus 94113-02-08 23:17 G 36095166.30 36095166.47 36095166.65 0.0135 0.0055

Uranus 94113-05-08 06:29 G 36095254.63 36095254.77 36095254.93 0.0135 0.0082

Uranus 94113-08-04 13:41 G 36095342.97 36095343.07 36095343.19 0.0135 0.0109

Venus 94114-07-17 16:48 G 36095690.05 36095690.20 36095690.35 0.3750 0.1403

Mars 94115-11-14 03:21 G 36096174.54 36096174.64 36096174.74 0.1585 0.0821

Saturn 94116-03-28 23:17 G 36096310.32 36096310.47 36096310.62 0.0290 0.0175

Saturn 94116-06-26 00:43 G 36096399.34 36096399.53 36096399.71 0.0291 0.0044

Saturn 94116-09-23 01:55 G 36096488.50 36096488.58 36096488.66 0.0292 0.0263

Jupiter 94116-10-29 20:38 G 36096525.24 36096525.36 36096525.49 0.0513 0.0119

Venus 94117-04-22 12:57 G 36096699.94 36096700.04 36096700.14 0.3623 0.0708

Mars 94117-10-19 04:19 G 36096879.57 36096879.68 36096879.79 0.1582 0.0617

Pluto 94120-05-10 04:19 G 36097813.62 36097813.68 36097813.78 0.0061 0.0055

Pluto 94120-08-06 05:17 G 36097901.62 36097901.72 36097901.87 0.0061 0.0045

Pluto 94120-11-02 06:57 G 36097989.64 36097989.79 36097989.95 0.0061 0.0033

Earth 94120-12-06 12:43 G 36098023.95 36098024.03 36098024.11 0.2633 0.1786

Moon 94120-12-06 13:12 G 36098023.98 36098024.05 36098024.13 0.2630 0.1870 *

Pluto 94121-01-29 07:55 G 36098077.67 36098077.83 36098078.01 0.0061 0.0023

Pluto 94121-04-27 09:21 G 36098165.71 36098165.89 36098166.07 0.0061 0.0012

Pluto 94121-07-24 10:33 G 36098253.76 36098253.94 36098254.13 0.0061 0.0002

Pluto 94121-10-20 11:45 G 36098341.81 36098341.99 36098342.17 0.0061 0.0009

Pluto 94122-01-16 12:43 G 36098429.87 36098430.03 36098430.21 0.0062 0.0020

Pluto 94122-04-14 13:55 G 36098517.93 36098518.08 36098518.25 0.0062 0.0030

Mars 94122-07-07 00:00 G 36098601.45 36098601.50 36098601.54 0.1957 0.1860

Pluto 94122-07-11 14:53 G 36098606.00 36098606.12 36098606.28 0.0062 0.0041

Pluto 94122-10-07 15:50 G 36098694.09 36098694.16 36098694.29 0.0062 0.0052

Venus 94122-11-06 03:50 G 36098723.59 36098723.66 36098723.72 0.3622 0.2656

Jupiter 94122-12-24 09:21 G 36098771.72 36098771.89 36098772.07 0.0513 0.0170

Mars 94125-04-05 15:07 G 36099605.05 36099605.13 36099605.21 0.1586 0.1167

Mars 94127-03-11 15:50 G 36100310.05 36100310.16 36100310.28 0.1582 0.0267

Moon 94127-11-30 12:57 G 36100573.98 36100574.04 36100574.10 0.2642 0.2206

Earth 94127-11-30 12:57 G 36100573.98 36100574.04 36100574.10 0.2636 0.2153 *

Jupiter 94128-08-18 01:41 G 36100835.44 36100835.57 36100835.69 0.0514 0.0040

Saturn 94129-05-09 17:45 G 36101100.15 36101100.24 36101100.33 0.0273 0.0196

Saturn 94129-08-06 04:05 G 36101188.54 36101188.67 36101188.80 0.0272 0.0073

Saturn 94129-11-02 14:24 G 36101276.97 36101277.10 36101277.23 0.0271 0.0049

Saturn 94130-01-30 00:29 G 36101365.42 36101365.52 36101365.63 0.0270 0.0170

Mars 94131-11-26 15:36 G 36102030.99 36102031.15 36102031.31 0.1956 0.0514

Mars 94134-08-27 03:07 G 36103035.60 36103035.63 36103035.66 0.1587 0.1511

Jupiter 94134-10-12 04:33 G 36103081.51 36103081.69 36103081.88 0.0512 0.0097

Mars 94136-08-01 03:36 G 36103740.54 36103740.65 36103740.77 0.1583 0.0104

Mars 94138-07-07 05:02 G 36104445.65 36104445.71 36104445.76 0.1582 0.1361

Jupiter 94140-06-06 06:29 G 36105145.65 36105145.77 36105145.89 0.0514 0.0200

Jupiter 94140-09-03 10:33 G 36105234.89 36105234.94 36105234.99 0.0512 0.0462

Earth 94140-12-02 06:29 G 36105324.66 36105324.77 36105324.87 0.2635 0.0762

Moon 94140-12-02 06:43 G 36105324.68 36105324.78 36105324.89 0.2641 0.0643 *

Mars 94141-04-17 07:12 G 36105460.65 36105460.80 36105460.95 0.1956 0.0852

Moon 94144-06-06 03:07 G 36106606.47 36106606.63 36106606.79 0.2697 0.0310

Earth 94144-06-06 04:48 G 36106606.54 36106606.70 36106606.85 0.2698 0.0041 *

Saturn 94145-08-15 20:53 G 36107042.27 36107042.37 36107042.48 0.0289 0.0239

Saturn 94145-11-12 22:19 G 36107131.24 36107131.43 36107131.62 0.0290 0.0021

Mars 94145-12-22 15:36 G 36107171.03 36107171.15 36107171.26 0.1584 0.0442

Saturn 94146-02-09 23:31 G 36107220.35 36107220.48 36107220.62 0.0291 0.0198

Jupiter 94146-07-31 00:57 G 36107391.41 36107391.54 36107391.68 0.0512 0.0342

Mars 94147-11-27 16:33 G 36107876.10 36107876.19 36107876.28 0.1582 0.1006

Jupiter 94152-03-25 10:33 G 36109455.86 36109455.94 36109456.03 0.0514 0.0376

Jupiter 94152-06-22 14:38 G 36109545.00 36109545.11 36109545.21 0.0512 0.0285

Earth 94153-12-05 00:00 G 36110075.39 36110075.50 36110075.60 0.2634 0.0656

Moon 94153-12-05 00:43 G 36110075.42 36110075.53 36110075.63 0.2634 0.0700 *

Uranus 94154-02-27 06:43 G 36110159.75 36110159.78 36110159.84 0.0142 0.0133

Uranus 94154-05-26 10:19 G 36110247.86 36110247.93 36110248.02 0.0142 0.0111

Uranus 94154-08-22 13:55 G 36110335.98 36110336.08 36110336.18 0.0143 0.0090

Uranus 94154-11-18 17:17 G 36110424.11 36110424.22 36110424.34 0.0143 0.0068

Uranus 94155-02-14 20:53 G 36110512.25 36110512.37 36110512.50 0.0143 0.0046

Uranus 94155-05-14 00:29 G 36110600.39 36110600.52 36110600.65 0.0143 0.0025

Mars 94155-05-15 03:21 G 36110601.54 36110601.64 36110601.74 0.1585 0.0786

Uranus 94155-08-10 03:50 G 36110688.53 36110688.66 36110688.80 0.0143 0.0005

Uranus 94155-11-06 07:26 G 36110776.68 36110776.81 36110776.94 0.0143 0.0019

Uranus 94156-02-02 11:02 G 36110864.83 36110864.96 36110865.08 0.0143 0.0041

Uranus 94156-04-30 14:24 G 36110952.99 36110953.10 36110953.22 0.0143 0.0063

Uranus 94156-07-27 18:00 G 36111041.15 36111041.25 36111041.36 0.0143 0.0085

Uranus 94156-10-23 21:36 G 36111129.32 36111129.40 36111129.49 0.0143 0.0107

Uranus 94157-01-20 01:12 G 36111217.50 36111217.55 36111217.61 0.0143 0.0129

Mars 94157-04-19 04:19 G 36111306.57 36111306.68 36111306.78 0.1582 0.0651

Jupiter 94158-08-17 11:45 G 36111791.89 36111791.99 36111792.09 0.0514 0.0432

Saturn 94158-09-26 20:53 G 36111832.30 36111832.37 36111832.44 0.0274 0.0229

Saturn 94158-12-24 07:12 G 36111920.68 36111920.80 36111920.92 0.0273 0.0105

Saturn 94159-03-22 17:31 G 36112009.10 36112009.23 36112009.36 0.0272 0.0018

Saturn 94159-06-19 03:50 G 36112097.54 36112097.66 36112097.77 0.0271 0.0139

Saturn 94159-09-15 13:55 G 36112186.05 36112186.08 36112186.12 0.0270 0.0260

Neptune 94161-12-31 00:14 G 36113023.44 36113023.51 36113023.61 0.0090 0.0080

Mars 94162-01-05 00:43 G 36113028.51 36113028.53 36113028.54 0.1957 0.1943

Neptune 94162-03-29 03:50 G 36113111.56 36113111.66 36113111.81 0.0090 0.0069

Neptune 94162-06-25 07:41 G 36113199.69 36113199.82 36113199.98 0.0090 0.0058

Neptune 94162-09-21 11:31 G 36113287.82 36113287.98 36113288.16 0.0090 0.0047

Venus 94162-10-29 04:33 G 36113325.62 36113325.69 36113325.76 0.3625 0.2465

Neptune 94162-12-18 15:07 G 36113375.96 36113376.13 36113376.32 0.0090 0.0036

Neptune 94163-03-16 18:57 G 36113464.11 36113464.29 36113464.48 0.0090 0.0025

Neptune 94163-06-12 22:33 G 36113552.26 36113552.44 36113552.64 0.0090 0.0014

Neptune 94163-09-09 02:24 G 36113640.41 36113640.60 36113640.80 0.0090 0.0003

Neptune 94163-12-06 06:00 G 36113728.56 36113728.75 36113728.95 0.0090 0.0009

Neptune 94164-03-03 09:36 G 36113816.72 36113816.90 36113817.10 0.0090 0.0019

Jupiter 94164-04-10 19:12 G 36113855.17 36113855.30 36113855.42 0.0513 0.0119

Neptune 94164-05-30 13:26 G 36113904.88 36113905.06 36113905.24 0.0090 0.0030

Neptune 94164-08-26 17:02 G 36113993.04 36113993.21 36113993.38 0.0090 0.0041

Mars 94164-10-04 15:07 G 36114032.05 36114032.13 36114032.21 0.1586 0.1133

Neptune 94164-11-22 20:24 G 36114081.20 36114081.35 36114081.52 0.0090 0.0052

Neptune 94165-02-19 00:00 G 36114169.38 36114169.50 36114169.65 0.0090 0.0063

Neptune 94165-05-18 03:21 G 36114257.55 36114257.64 36114257.77 0.0090 0.0074

Neptune 94165-08-14 06:57 G 36114345.75 36114345.79 36114345.88 0.0090 0.0085

Mars 94166-09-09 16:05 G 36114737.05 36114737.17 36114737.28 0.1582 0.0301

Earth 94166-12-07 17:31 G 36114826.16 36114826.23 36114826.30 0.2633 0.2072

Moon 94166-12-07 18:00 G 36114826.19 36114826.25 36114826.31 0.2629 0.2183 *

Venus 94168-05-13 19:26 G 36115349.21 36115349.31 36115349.41 0.3624 0.0528

Jupiter 94170-06-05 07:55 G 36116101.65 36116101.83 36116102.00 0.0513 0.0181

Mars 94171-05-27 16:33 G 36116458.03 36116458.19 36116458.35 0.1957 0.0606

Venus 94173-11-27 10:05 G 36117372.83 36117372.92 36117373.02 0.3623 0.1422

Moon 94173-11-30 17:45 G 36117376.17 36117376.24 36117376.32 0.2643 0.1838

Earth 94173-11-30 17:45 G 36117376.17 36117376.24 36117376.32 0.2636 0.1875 *

Mars 94174-02-25 02:53 G 36117462.59 36117462.62 36117462.66 0.1587 0.1483

Saturn 94175-04-01 19:41 G 36117863.15 36117863.32 36117863.51 0.0290 0.0091

Saturn 94175-06-29 21:07 G 36117952.22 36117952.38 36117952.55 0.0291 0.0130

Jupiter 94176-01-28 23:45 G 36118165.37 36118165.49 36118165.62 0.0513 0.0047

Mars 94176-01-31 03:36 G 36118167.54 36118167.65 36118167.77 0.1583 0.0068

Earth 94177-06-04 03:50 G 36118657.64 36118657.66 36118657.68 0.2697 0.2664

Mars 94178-01-05 05:02 G 36118872.66 36118872.71 36118872.76 0.1582 0.1400

Venus 94179-06-13 00:57 G 36119396.51 36119396.54 36119396.58 0.3622 0.3361

Mars 94180-10-16 08:09 G 36119887.69 36119887.84 36119888.00 0.1955 0.0758

Jupiter 94182-03-24 03:36 G 36120411.47 36120411.65 36120411.84 0.0512 0.0076

Mars 94185-06-22 15:21 G 36121598.03 36121598.14 36121598.26 0.1584 0.0410

Earth 94186-12-03 11:17 G 36122126.86 36122126.97 36122127.07 0.2635 0.0488

Moon 94186-12-03 11:45 G 36122126.88 36122126.99 36122127.09 0.2639 0.0465 *

Mars 94187-05-28 16:33 G 36122303.10 36122303.19 36122303.28 0.1581 0.1039

Jupiter 94187-11-17 04:48 G 36122475.58 36122475.70 36122475.82 0.0514 0.0204

Saturn 94188-02-13 23:45 G 36122564.45 36122564.49 36122564.52 0.0274 0.0263

Jupiter 94188-02-14 08:53 G 36122564.81 36122564.87 36122564.92 0.0512 0.0458

Saturn 94188-05-12 09:50 G 36122652.81 36122652.91 36122653.03 0.0273 0.0140

Saturn 94188-08-08 20:24 G 36122741.21 36122741.35 36122741.48 0.0272 0.0019

Saturn 94188-11-05 06:29 G 36122829.65 36122829.77 36122829.89 0.0271 0.0105

Saturn 94189-02-01 16:48 G 36122918.13 36122918.20 36122918.27 0.0270 0.0226

Moon 94190-06-07 09:36 G 36123408.75 36123408.90 36123409.06 0.2697 0.0513

Earth 94190-06-07 11:31 G 36123408.83 36123408.98 36123409.13 0.2698 0.0639 *

Jupiter 94194-01-09 23:02 G 36124721.32 36124721.46 36124721.60 0.0512 0.0337

Mars 94194-11-13 03:21 G 36125028.54 36125028.64 36125028.74 0.1585 0.0754

Uranus 94195-06-22 02:09 G 36125249.55 36125249.59 36125249.66 0.0136 0.0130

Uranus 94195-09-18 09:50 G 36125337.79 36125337.91 36125338.04 0.0135 0.0102

Uranus 94195-12-15 17:17 G 36125426.07 36125426.22 36125426.39 0.0135 0.0074

Uranus 94196-03-13 00:57 G 36125514.36 36125514.54 36125514.72 0.0135 0.0047

Uranus 94196-06-09 08:24 G 36125602.66 36125602.85 36125603.04 0.0135 0.0019

Uranus 94196-09-05 15:50 G 36125690.96 36125691.16 36125691.35 0.0135 0.0008

Mars 94196-10-18 04:19 G 36125733.57 36125733.68 36125733.78 0.1582 0.0686

Uranus 94196-12-02 23:17 G 36125779.28 36125779.47 36125779.65 0.0135 0.0036

Uranus 94197-03-01 06:14 G 36125867.60 36125867.76 36125867.94 0.0135 0.0063

Uranus 94197-05-28 13:55 G 36125955.94 36125956.08 36125956.22 0.0135 0.0090

Uranus 94197-08-24 21:07 G 36126044.29 36126044.38 36126044.48 0.0135 0.0116

Jupiter 94199-09-05 09:36 G 36126785.82 36126785.90 36126785.99 0.0514 0.0364

Jupiter 94199-12-03 13:41 G 36126874.97 36126875.07 36126875.17 0.0512 0.0300

Earth 94199-12-06 04:48 G 36126877.59 36126877.70 36126877.80 0.2634 0.0940

Moon 94199-12-06 05:31 G 36126877.63 36126877.73 36126877.83 0.2634 0.1116 *

Mars 94204-04-05 15:07 G 36128459.05 36128459.13 36128459.21 0.1586 0.1102

Saturn 94204-08-19 16:33 G 36128595.04 36128595.19 36128595.35 0.0289 0.0162

Saturn 94204-11-16 18:00 G 36128684.07 36128684.25 36128684.44 0.0291 0.0057

Saturn 94205-02-13 19:12 G 36128773.25 36128773.30 36128773.36 0.0292 0.0277

Jupiter 94206-01-28 09:36 G 36129121.80 36129121.90 36129122.00 0.0513 0.0431

Mars 94206-03-11 15:50 G 36129164.05 36129164.16 36129164.28 0.1582 0.0335

Mars 94210-11-26 17:45 G 36130885.08 36130885.24 36130885.39 0.1957 0.0705

Jupiter 94211-09-22 18:00 G 36131185.12 36131185.25 36131185.37 0.0513 0.0125

Earth 94212-12-08 22:19 G 36131628.38 36131628.43 36131628.47 0.2633 0.2365

Moon 94212-12-08 22:48 G 36131628.40 36131628.45 36131628.49 0.2628 0.2373 *

Pluto 94213-06-04 07:26 G 36131805.73 36131805.81 36131805.89 0.0083 0.0067

Mars 94213-08-27 03:07 G 36131889.58 36131889.63 36131889.67 0.1587 0.1446

Pluto 94213-08-31 08:24 G 36131893.75 36131893.85 36131893.98 0.0083 0.0048

Pluto 94213-11-27 09:50 G 36131981.79 36131981.91 36131982.05 0.0083 0.0027

Pluto 94214-02-23 11:17 G 36132069.83 36132069.97 36132070.11 0.0083 0.0007

Pluto 94214-05-22 12:43 G 36132157.89 36132158.03 36132158.16 0.0083 0.0013

Pluto 94214-08-18 13:55 G 36132245.95 36132246.08 36132246.21 0.0083 0.0033

Pluto 94214-11-14 14:53 G 36132334.03 36132334.12 36132334.24 0.0083 0.0053

Pluto 94215-02-10 16:33 G 36132422.12 36132422.19 36132422.25 0.0083 0.0072

Mars 94215-08-02 03:36 G 36132594.53 36132594.65 36132594.77 0.1583 0.0040

Mars 94217-07-07 05:02 G 36133299.66 36133299.71 36133299.75 0.1582 0.1434

Saturn 94217-09-30 12:43 G 36133384.94 36133385.03 36133385.13 0.0274 0.0176

Jupiter 94217-11-16 06:29 G 36133431.60 36133431.77 36133431.94 0.0513 0.0193

Saturn 94217-12-27 23:02 G 36133473.34 36133473.46 36133473.59 0.0273 0.0053

Saturn 94218-03-26 09:21 G 36133561.77 36133561.89 36133562.02 0.0272 0.0070

Saturn 94218-06-22 19:41 G 36133650.23 36133650.32 36133650.41 0.0271 0.0192

Venus 94219-06-06 01:55 G 36133998.49 36133998.58 36133998.67 0.3625 0.1758

Earth 94219-12-02 22:33 G 36134178.35 36134178.44 36134178.53 0.2636 0.1596

Moon 94219-12-02 22:33 G 36134178.36 36134178.44 36134178.53 0.2643 0.1609 *

Mars 94220-04-17 08:53 G 36134314.72 36134314.87 36134315.03 0.1955 0.0677

Venus 94222-03-15 09:07 G 36135011.74 36135011.88 36135012.01 0.3749 0.2101

Moon 94223-06-06 09:21 G 36135459.79 36135459.89 36135459.98 0.2693 0.2135

Earth 94223-06-06 10:33 G 36135459.84 36135459.94 36135460.04 0.2697 0.2032 *

Jupiter 94223-07-11 22:33 G 36135495.32 36135495.44 36135495.57 0.0513 0.0041

Venus 94224-12-19 16:33 G 36136022.09 36136022.19 36136022.30 0.3624 0.0235

Mars 94224-12-22 15:21 G 36136025.03 36136025.14 36136025.26 0.1583 0.0377

Mars 94226-11-27 16:33 G 36136730.10 36136730.19 36136730.28 0.1582 0.1077

Jupiter 94229-09-04 02:38 G 36137741.43 36137741.61 36137741.80 0.0512 0.0056

Venus 94230-07-05 07:26 G 36138045.73 36138045.81 36138045.89 0.3622 0.2117

Earth 94232-12-04 16:05 G 36138929.05 36138929.17 36138929.28 0.2635 0.0225

Moon 94232-12-04 16:33 G 36138929.08 36138929.19 36138929.30 0.2638 0.0066 *

Saturn 94234-01-06 13:26 G 36139326.96 36139327.06 36139327.17 0.0289 0.0235

Saturn 94234-04-05 14:53 G 36139415.94 36139416.12 36139416.31 0.0290 0.0018

Mars 94234-05-15 03:21 G 36139455.53 36139455.64 36139455.74 0.1584 0.0725

Saturn 94234-07-03 16:19 G 36139505.05 36139505.18 36139505.31 0.0292 0.0203

Jupiter 94235-04-30 03:21 G 36139805.52 36139805.64 36139805.75 0.0514 0.0205

Jupiter 94235-07-28 07:12 G 36139894.75 36139894.80 36139894.86 0.0512 0.0457

Mars 94236-04-19 04:19 G 36140160.57 36140160.68 36140160.78 0.1582 0.0722

Moon 94236-06-08 16:19 G 36140211.04 36140211.18 36140211.33 0.2697 0.0888

Earth 94236-06-08 18:00 G 36140211.12 36140211.25 36140211.39 0.2698 0.1251 *

Uranus 94238-03-20 13:41 G 36140861.02 36140861.07 36140861.13 0.0142 0.0129

Uranus 94238-06-16 17:17 G 36140949.14 36140949.22 36140949.30 0.0142 0.0108

Uranus 94238-09-12 20:38 G 36141037.26 36141037.36 36141037.47 0.0143 0.0087

Uranus 94238-12-10 00:14 G 36141125.39 36141125.51 36141125.63 0.0143 0.0065

Uranus 94239-03-08 03:36 G 36141213.53 36141213.65 36141213.78 0.0143 0.0044

Uranus 94239-06-04 07:12 G 36141301.67 36141301.80 36141301.93 0.0143 0.0022

Uranus 94239-08-31 10:48 G 36141389.82 36141389.95 36141390.08 0.0143 0.0002

Uranus 94239-11-27 14:09 G 36141477.96 36141478.09 36141478.23 0.0143 0.0022

Uranus 94240-02-23 17:45 G 36141566.12 36141566.24 36141566.37 0.0143 0.0044

Uranus 94240-05-21 21:21 G 36141654.27 36141654.39 36141654.51 0.0143 0.0066

Uranus 94240-08-18 00:43 G 36141742.43 36141742.53 36141742.64 0.0143 0.0088

Uranus 94240-11-14 04:19 G 36141830.60 36141830.68 36141830.77 0.0143 0.0110

Uranus 94241-02-10 07:55 G 36141918.79 36141918.83 36141918.88 0.0143 0.0132

Jupiter 94241-06-22 22:33 G 36142051.30 36142051.44 36142051.59 0.0512 0.0309

Neptune 94242-10-17 16:05 G 36142533.15 36142533.17 36142533.21 0.0088 0.0085

Neptune 94243-01-13 17:17 G 36142621.17 36142621.22 36142621.29 0.0088 0.0078

Neptune 94243-04-11 18:29 G 36142709.21 36142709.27 36142709.36 0.0088 0.0071

Neptune 94243-07-08 19:55 G 36142797.25 36142797.33 36142797.43 0.0088 0.0064

Neptune 94243-10-04 21:07 G 36142885.29 36142885.38 36142885.49 0.0088 0.0057

Mars 94243-10-05 15:07 G 36142886.04 36142886.13 36142886.21 0.1586 0.1069

Neptune 94243-12-31 22:33 G 36142973.33 36142973.44 36142973.55 0.0088 0.0050

Neptune 94244-03-28 23:45 G 36143061.38 36143061.49 36143061.61 0.0088 0.0043

Neptune 94244-06-25 00:57 G 36143149.43 36143149.54 36143149.67 0.0088 0.0036

Neptune 94244-09-21 02:24 G 36143237.48 36143237.60 36143237.73 0.0088 0.0029

Neptune 94244-12-18 03:36 G 36143325.53 36143325.65 36143325.78 0.0088 0.0022

Neptune 94245-03-16 05:02 G 36143413.58 36143413.71 36143413.84 0.0088 0.0015

Neptune 94245-06-12 06:14 G 36143501.63 36143501.76 36143501.90 0.0088 0.0008

Neptune 94245-09-08 07:41 G 36143589.68 36143589.82 36143589.95 0.0088 0.0002

Mars 94245-09-09 15:50 G 36143591.05 36143591.16 36143591.28 0.1582 0.0364

Neptune 94245-12-05 08:53 G 36143677.74 36143677.87 36143678.00 0.0088 0.0007

Earth 94245-12-07 09:36 G 36143679.80 36143679.90 36143679.99 0.2634 0.1225

Moon 94245-12-07 10:19 G 36143679.83 36143679.93 36143680.02 0.2633 0.1267 *

Neptune 94246-03-03 10:05 G 36143765.79 36143765.92 36143766.06 0.0088 0.0014

Neptune 94246-05-30 11:31 G 36143853.85 36143853.98 36143854.11 0.0088 0.0021

Neptune 94246-08-26 12:43 G 36143941.91 36143942.03 36143942.16 0.0088 0.0028

Neptune 94246-11-22 14:09 G 36144029.96 36144030.09 36144030.21 0.0088 0.0035

Jupiter 94247-02-16 08:09 G 36144115.76 36144115.84 36144115.93 0.0515 0.0363

Saturn 94247-02-17 15:07 G 36144117.06 36144117.13 36144117.21 0.0274 0.0214

Neptune 94247-02-18 15:07 G 36144118.02 36144118.13 36144118.26 0.0088 0.0043

Jupiter 94247-05-16 12:14 G 36144204.91 36144205.01 36144205.11 0.0513 0.0301

Saturn 94247-05-17 01:26 G 36144205.44 36144205.56 36144205.69 0.0273 0.0091

Neptune 94247-05-17 16:33 G 36144206.09 36144206.19 36144206.30 0.0088 0.0049

Saturn 94247-08-13 11:45 G 36144293.86 36144293.99 36144294.12 0.0272 0.0033

Neptune 94247-08-13 17:45 G 36144294.15 36144294.24 36144294.35 0.0088 0.0057

Neptune 94247-11-09 19:12 G 36144382.21 36144382.30 36144382.39 0.0088 0.0064

Saturn 94247-11-09 22:05 G 36144382.31 36144382.42 36144382.53 0.0271 0.0154 *

Neptune 94248-02-05 20:24 G 36144470.28 36144470.35 36144470.44 0.0088 0.0071

Neptune 94248-05-03 21:50 G 36144558.35 36144558.41 36144558.47 0.0088 0.0078

Neptune 94248-07-30 23:02 G 36144646.44 36144646.46 36144646.50 0.0088 0.0085

Mars 94250-05-27 18:14 G 36145312.10 36145312.26 36145312.41 0.1957 0.0771

Mars 94253-02-25 02:53 G 36146316.57 36146316.62 36146316.67 0.1587 0.1417

Jupiter 94253-07-10 08:09 G 36146451.75 36146451.84 36146451.93 0.0513 0.0444

Mars 94255-01-31 03:36 G 36147021.53 36147021.65 36147021.77 0.1583 0.0019

Mars 94257-01-05 04:48 G 36147726.66 36147726.70 36147726.75 0.1582 0.1469

Jupiter 94259-03-04 17:17 G 36148515.10 36148515.22 36148515.34 0.0513 0.0144

Mars 94259-10-17 09:50 G 36148741.75 36148741.91 36148742.07 0.1956 0.0586

Saturn 94263-08-23 10:48 G 36150147.77 36150147.95 36150148.13 0.0290 0.0098

Saturn 94263-11-20 12:00 G 36150236.83 36150237.00 36150237.18 0.0291 0.0122

Mars 94264-06-22 15:21 G 36150452.03 36150452.14 36150452.26 0.1583 0.0342

Jupiter 94265-04-28 04:48 G 36150761.53 36150761.70 36150761.87 0.0513 0.0202

Earth 94265-12-03 03:21 G 36150980.54 36150980.64 36150980.73 0.2636 0.1314

Moon 94265-12-03 03:36 G 36150980.55 36150980.65 36150980.74 0.2642 0.1289 *

Mars 94266-05-28 16:33 G 36151157.11 36151157.19 36151157.27 0.1581 0.1112

Moon 94269-06-06 15:50 G 36152262.03 36152262.16 36152262.28 0.2694 0.1679

Earth 94269-06-06 17:17 G 36152262.09 36152262.22 36152262.36 0.2697 0.1416 *

Venus 94270-06-27 08:24 G 36152647.79 36152647.85 36152647.90 0.3626 0.2992

Jupiter 94270-12-21 21:36 G 36152825.27 36152825.40 36152825.52 0.0513 0.0030

Mars 94273-11-13 03:21 G 36153882.53 36153882.64 36153882.74 0.1584 0.0688

Mars 94275-10-19 04:05 G 36154587.57 36154587.67 36154587.78 0.1582 0.0757

Venus 94276-01-10 23:02 G 36154671.37 36154671.46 36154671.56 0.3625 0.1060

Saturn 94276-07-06 17:31 G 36154849.19 36154849.23 36154849.28 0.0275 0.0255

Saturn 94276-10-03 03:50 G 36154937.55 36154937.66 36154937.78 0.0274 0.0131

Saturn 94276-12-30 14:24 G 36155025.97 36155026.10 36155026.23 0.0273 0.0010

Jupiter 94277-02-14 01:41 G 36155071.38 36155071.57 36155071.75 0.0513 0.0038

Saturn 94277-03-29 00:29 G 36155114.41 36155114.52 36155114.64 0.0272 0.0116

Saturn 94277-06-25 10:48 G 36155202.89 36155202.95 36155203.01 0.0270 0.0237

Venus 94278-10-20 12:29 G 36155684.86 36155685.02 36155685.18 0.3750 0.0821

Earth 94278-12-05 20:53 G 36155731.26 36155731.37 36155731.48 0.2635 0.0130

Moon 94278-12-05 21:21 G 36155731.28 36155731.39 36155731.50 0.2637 0.0192 *

Uranus 94279-07-13 08:38 G 36155950.80 36155950.86 36155950.95 0.0136 0.0125

Uranus 94279-10-09 16:19 G 36156039.05 36156039.18 36156039.32 0.0136 0.0097

Uranus 94280-01-05 23:45 G 36156127.33 36156127.49 36156127.66 0.0135 0.0069

Uranus 94280-04-03 07:26 G 36156215.62 36156215.81 36156215.99 0.0135 0.0041

Uranus 94280-06-30 14:53 G 36156303.93 36156304.12 36156304.31 0.0135 0.0014

Uranus 94280-09-26 22:19 G 36156392.24 36156392.43 36156392.62 0.0135 0.0013

Uranus 94280-12-24 05:45 G 36156480.55 36156480.74 36156480.92 0.0135 0.0041

Uranus 94281-03-22 12:57 G 36156568.88 36156569.04 36156569.21 0.0135 0.0068

Uranus 94281-06-18 20:24 G 36156657.21 36156657.35 36156657.49 0.0135 0.0095

Venus 94281-07-26 13:55 G 36156694.98 36156695.08 36156695.18 0.3623 0.0877

Uranus 94281-09-15 03:36 G 36156745.57 36156745.65 36156745.73 0.0135 0.0121

Moon 94282-06-09 23:02 G 36157013.35 36157013.46 36157013.58 0.2698 0.1739

Earth 94282-06-10 00:57 G 36157013.42 36157013.54 36157013.65 0.2699 0.1860 *

Jupiter 94282-10-10 02:24 G 36157135.48 36157135.60 36157135.71 0.0513 0.0192

Jupiter 94283-01-07 06:14 G 36157224.71 36157224.76 36157224.81 0.0511 0.0468

Mars 94283-04-05 15:07 G 36157313.04 36157313.13 36157313.21 0.1586 0.1037

Mars 94285-03-10 15:50 G 36158018.05 36158018.16 36158018.28 0.1582 0.0403

Venus 94287-02-09 04:48 G 36158718.63 36158718.70 36158718.76 0.3622 0.2821

Jupiter 94288-12-02 21:50 G 36159381.26 36159381.41 36159381.57 0.0512 0.0283

Mars 94289-11-25 19:12 G 36159739.15 36159739.30 36159739.45 0.1957 0.0868

Earth 94291-12-08 14:24 G 36160482.01 36160482.10 36160482.19 0.2634 0.1510

Moon 94291-12-08 14:53 G 36160482.04 36160482.12 36160482.21 0.2632 0.1656 *

Mars 94292-08-26 02:53 G 36160743.57 36160743.62 36160743.68 0.1587 0.1385

Saturn 94293-01-09 06:43 G 36160879.64 36160879.78 36160879.94 0.0289 0.0178

Saturn 94293-04-08 08:24 G 36160968.66 36160968.85 36160969.03 0.0291 0.0042

Saturn 94293-07-06 09:21 G 36161057.82 36161057.89 36161057.98 0.0292 0.0262

Jupiter 94294-07-29 06:57 G 36161445.70 36161445.79 36161445.88 0.0514 0.0356

Mars 94294-08-01 03:36 G 36161448.53 36161448.65 36161448.77 0.1583 0.0046

Jupiter 94294-10-26 11:02 G 36161534.86 36161534.96 36161535.06 0.0512 0.0306

Mars 94296-07-06 05:02 G 36162153.67 36162153.71 36162153.74 0.1581 0.1507

Earth 94298-12-01 14:38 G 36163032.07 36163032.11 36163032.15 0.2637 0.2424

Moon 94298-12-01 14:38 G 36163032.08 36163032.11 36163032.14 0.2643 0.2504 *

Mars 94299-04-17 10:48 G 36163168.79 36163168.95 36163169.11 0.1956 0.0500

Jupiter 94300-12-21 07:55 G 36163781.77 36163781.83 36163781.90 0.0513 0.0479

Mars 94303-12-23 15:21 G 36164879.03 36164879.14 36164879.26 0.1583 0.0307

Mars 94305-11-27 16:33 G 36165584.11 36165584.19 36165584.27 0.1581 0.1146

Saturn 94306-02-21 06:00 G 36165669.66 36165669.75 36165669.86 0.0274 0.0172

Jupiter 94306-05-18 12:00 G 36165756.00 36165756.00 36165756.00 0.0515 0.0514

Saturn 94306-05-20 16:19 G 36165758.06 36165758.18 36165758.31 0.0273 0.0049

Jupiter 94306-08-15 15:50 G 36165845.04 36165845.16 36165845.29 0.0513 0.0150

Saturn 94306-08-17 02:38 G 36165846.49 36165846.61 36165846.74 0.0271 0.0075

Saturn 94306-11-13 12:57 G 36165934.95 36165935.04 36165935.13 0.0270 0.0196

Mars 94308-09-07 01:55 G 36166598.54 36166598.58 36166598.62 0.1954 0.1894

Earth 94311-12-05 08:09 G 36167782.74 36167782.84 36167782.94 0.2636 0.1031

Moon 94311-12-05 08:24 G 36167782.75 36167782.85 36167782.95 0.2641 0.0961 *

Jupiter 94312-10-09 03:50 G 36168091.49 36168091.66 36168091.83 0.0513 0.0223

Mars 94313-05-15 03:07 G 36168309.53 36168309.63 36168309.74 0.1584 0.0658

Mars 94315-04-20 04:05 G 36169014.57 36169014.67 36169014.78 0.1582 0.0790

Moon 94315-06-08 22:19 G 36169064.29 36169064.43 36169064.58 0.2694 0.0994

Earth 94315-06-09 00:00 G 36169064.35 36169064.50 36169064.65 0.2697 0.0798 *

Jupiter 94318-06-03 20:53 G 36170155.25 36170155.37 36170155.50 0.0513 0.0018

Uranus 94322-04-10 20:38 G 36171562.30 36171562.36 36171562.42 0.0142 0.0126

Saturn 94322-05-30 02:09 G 36171611.52 36171611.59 36171611.68 0.0289 0.0261

Uranus 94322-07-08 00:00 G 36171650.42 36171650.50 36171650.59 0.0142 0.0105

Saturn 94322-08-27 03:50 G 36171700.47 36171700.66 36171700.84 0.0290 0.0043

Uranus 94322-10-04 03:21 G 36171738.54 36171738.64 36171738.76 0.0142 0.0084

Mars 94322-10-05 15:07 G 36171740.04 36171740.13 36171740.22 0.1586 0.1005

Saturn 94322-11-24 05:02 G 36171789.56 36171789.71 36171789.86 0.0291 0.0177

Uranus 94322-12-31 06:57 G 36171826.68 36171826.79 36171826.91 0.0143 0.0062

Uranus 94323-03-29 10:33 G 36171914.81 36171914.94 36171915.07 0.0143 0.0040

Uranus 94323-06-25 14:09 G 36172002.96 36172003.09 36172003.22 0.0143 0.0019

Uranus 94323-09-21 17:31 G 36172091.10 36172091.23 36172091.36 0.0143 0.0004

Uranus 94323-12-18 21:07 G 36172179.25 36172179.38 36172179.51 0.0143 0.0025

Uranus 94324-03-16 00:29 G 36172267.40 36172267.52 36172267.65 0.0143 0.0047

Uranus 94324-06-12 04:05 G 36172355.56 36172355.67 36172355.79 0.0143 0.0069

Jupiter 94324-07-28 00:29 G 36172401.34 36172401.52 36172401.71 0.0512 0.0020

Uranus 94324-09-08 07:26 G 36172443.72 36172443.81 36172443.92 0.0143 0.0091

Mars 94324-09-09 15:50 G 36172445.05 36172445.16 36172445.28 0.1582 0.0435

Uranus 94324-12-05 11:02 G 36172531.89 36172531.96 36172532.05 0.0143 0.0113

Earth 94324-12-07 01:41 G 36172533.46 36172533.57 36172533.68 0.2634 0.0386

Moon 94324-12-07 02:09 G 36172533.49 36172533.59 36172533.70 0.2637 0.0511 *

Uranus 94325-03-03 14:38 G 36172620.08 36172620.11 36172620.16 0.0143 0.0135

Neptune 94326-07-02 19:26 G 36173106.26 36173106.31 36173106.38 0.0090 0.0085

Neptune 94326-09-28 23:02 G 36173194.36 36173194.46 36173194.58 0.0090 0.0074

Neptune 94326-12-26 02:53 G 36173282.49 36173282.62 36173282.77 0.0090 0.0063

Venus 94327-02-02 05:31 G 36173320.65 36173320.73 36173320.81 0.3626 0.2292

Neptune 94327-03-24 06:29 G 36173370.62 36173370.77 36173370.94 0.0090 0.0052

Neptune 94327-06-20 10:19 G 36173458.76 36173458.93 36173459.11 0.0090 0.0041

Neptune 94327-09-16 14:09 G 36173546.91 36173547.09 36173547.27 0.0090 0.0030

Neptune 94327-12-13 17:45 G 36173635.06 36173635.24 36173635.44 0.0090 0.0019

Neptune 94328-03-10 21:36 G 36173723.21 36173723.40 36173723.59 0.0090 0.0008

Neptune 94328-06-07 01:12 G 36173811.36 36173811.55 36173811.75 0.0090 0.0003

Moon 94328-06-11 06:00 G 36173815.66 36173815.75 36173815.84 0.2700 0.2159

Earth 94328-06-11 07:26 G 36173815.75 36173815.81 36173815.87 0.2699 0.2463 *

Neptune 94328-09-03 04:48 G 36173899.51 36173899.70 36173899.90 0.0090 0.0014

Neptune 94328-11-30 08:38 G 36173987.67 36173987.86 36173988.04 0.0090 0.0025

Neptune 94329-02-26 12:14 G 36174075.83 36174076.01 36174076.19 0.0090 0.0036

Neptune 94329-05-25 15:36 G 36174164.00 36174164.15 36174164.33 0.0090 0.0047

Mars 94329-05-27 20:09 G 36174166.20 36174166.34 36174166.49 0.1957 0.0963

Neptune 94329-08-21 19:12 G 36174252.17 36174252.30 36174252.46 0.0090 0.0058

Neptune 94329-11-17 22:48 G 36174340.34 36174340.45 36174340.59 0.0090 0.0069

Neptune 94330-02-14 02:09 G 36174428.53 36174428.59 36174428.70 0.0090 0.0080

Jupiter 94330-03-23 01:26 G 36174465.44 36174465.56 36174465.68 0.0513 0.0176

Jupiter 94330-06-20 05:17 G 36174554.69 36174554.72 36174554.76 0.0511 0.0483

Mars 94332-02-26 02:53 G 36175170.56 36175170.62 36175170.68 0.1587 0.1350

Venus 94332-08-17 20:24 G 36175344.25 36175344.35 36175344.45 0.3624 0.0382

Mars 94334-01-31 03:36 G 36175875.53 36175875.65 36175875.77 0.1583 0.0082

Saturn 94335-07-11 08:24 G 36176401.77 36176401.85 36176401.93 0.0275 0.0216

Saturn 94335-10-07 18:43 G 36176490.15 36176490.28 36176490.40 0.0274 0.0092

Saturn 94336-01-04 05:02 G 36176578.58 36176578.71 36176578.84 0.0273 0.0033

Mars 94336-01-06 04:48 G 36176580.68 36176580.70 36176580.73 0.1581 0.1542

Saturn 94336-04-01 15:21 G 36176667.03 36176667.14 36176667.24 0.0271 0.0155

Jupiter 94336-05-15 21:07 G 36176711.22 36176711.38 36176711.54 0.0512 0.0261

Earth 94337-12-09 19:12 G 36177284.22 36177284.30 36177284.38 0.2634 0.1799

Moon 94337-12-09 19:41 G 36177284.24 36177284.32 36177284.40 0.2630 0.1843 *

Venus 94338-03-03 11:02 G 36177367.87 36177367.96 36177368.05 0.3623 0.1579

Mars 94338-10-17 11:45 G 36177595.82 36177595.99 36177596.15 0.1956 0.0411

Jupiter 94342-01-09 06:14 G 36178775.67 36178775.76 36178775.86 0.0514 0.0337

Jupiter 94342-04-08 10:05 G 36178864.83 36178864.92 36178865.02 0.0512 0.0323

Mars 94343-06-23 15:21 G 36179306.03 36179306.14 36179306.26 0.1583 0.0271

Venus 94343-09-17 01:55 G 36179391.56 36179391.58 36179391.60 0.3622 0.3505

Moon 94344-12-02 19:26 G 36179834.24 36179834.31 36179834.37 0.2643 0.2119

Earth 94344-12-02 19:26 G 36179834.25 36179834.31 36179834.37 0.2636 0.2146 *

Mars 94345-05-28 16:33 G 36180011.11 36180011.19 36180011.27 0.1581 0.1184

Jupiter 94348-03-03 17:31 G 36181021.21 36181021.23 36181021.26 0.0512 0.0504

Mars 94348-03-08 03:07 G 36181025.56 36181025.63 36181025.69 0.1954 0.1797

Jupiter 94348-06-02 07:41 G 36181111.80 36181111.82 36181111.84 0.0514 0.0510

Saturn 94352-01-13 23:31 G 36182432.31 36182432.48 36182432.65 0.0289 0.0125

Saturn 94352-04-12 00:43 G 36182521.36 36182521.53 36182521.71 0.0291 0.0094

Mars 94352-11-13 03:07 G 36182736.52 36182736.63 36182736.74 0.1584 0.0624

Jupiter 94353-10-28 11:02 G 36183085.93 36183085.96 36183085.98 0.0514 0.0502

Jupiter 94354-01-25 14:53 G 36183175.00 36183175.12 36183175.24 0.0513 0.0159

Mars 94354-10-19 04:05 G 36183441.57 36183441.67 36183441.77 0.1581 0.0827

Earth 94357-12-05 12:57 G 36184584.93 36184585.04 36184585.14 0.2635 0.0750

Moon 94357-12-05 13:26 G 36184584.95 36184585.06 36184585.16 0.2640 0.0723 *

Jupiter 94360-03-21 04:05 G 36185421.51 36185421.67 36185421.83 0.0513 0.0261

Moon 94361-06-09 05:17 G 36185866.56 36185866.72 36185866.87 0.2695 0.0415

Earth 94361-06-09 06:43 G 36185866.63 36185866.78 36185866.94 0.2698 0.0183 *

Mars 94362-04-05 14:53 G 36186167.03 36186167.12 36186167.22 0.1586 0.0973

Uranus 94363-08-03 15:07 G 36186652.05 36186652.13 36186652.22 0.0136 0.0120

Uranus 94363-10-30 22:19 G 36186740.31 36186740.43 36186740.59 0.0136 0.0093

Uranus 94364-01-27 06:00 G 36186828.59 36186828.75 36186828.93 0.0136 0.0065

Mars 94364-03-10 15:50 G 36186872.05 36186872.16 36186872.27 0.1582 0.0467

Uranus 94364-04-24 13:41 G 36186916.89 36186917.07 36186917.26 0.0136 0.0037

Uranus 94364-07-21 21:07 G 36187005.19 36187005.38 36187005.58 0.0136 0.0010

Uranus 94364-10-18 04:33 G 36187093.50 36187093.69 36187093.89 0.0135 0.0018

Saturn 94364-11-27 10:05 G 36187133.89 36187133.92 36187133.96 0.0275 0.0262

Uranus 94365-01-14 11:45 G 36187181.82 36187181.99 36187182.18 0.0135 0.0046

Saturn 94365-02-23 20:24 G 36187222.24 36187222.35 36187222.47 0.0274 0.0137

Uranus 94365-04-12 19:12 G 36187270.15 36187270.30 36187270.47 0.0135 0.0073

Saturn 94365-05-23 06:57 G 36187310.66 36187310.79 36187310.92 0.0273 0.0014

Uranus 94365-07-10 02:24 G 36187358.49 36187358.60 36187358.74 0.0135 0.0100

Saturn 94365-08-19 17:17 G 36187399.10 36187399.22 36187399.34 0.0271 0.0111

Uranus 94365-10-06 09:50 G 36187446.85 36187446.91 36187446.99 0.0135 0.0126

Jupiter 94365-11-13 19:55 G 36187485.20 36187485.33 36187485.46 0.0513 0.0004

Saturn 94365-11-16 03:21 G 36187487.58 36187487.64 36187487.71 0.0270 0.0232

Pluto 94366-01-09 17:45 G 36187542.19 36187542.24 36187542.33 0.0061 0.0056

Pluto 94366-04-07 18:43 G 36187630.18 36187630.28 36187630.42 0.0061 0.0046

Pluto 94366-07-04 20:09 G 36187718.20 36187718.34 36187718.50 0.0061 0.0036

Pluto 94366-09-30 21:21 G 36187806.23 36187806.39 36187806.57 0.0061 0.0025

Pluto 94366-12-27 22:48 G 36187894.27 36187894.45 36187894.63 0.0061 0.0015

Pluto 94367-03-25 23:45 G 36187982.31 36187982.49 36187982.68 0.0061 0.0005

Pluto 94367-06-22 00:57 G 36188070.36 36188070.54 36188070.73 0.0061 0.0007

Pluto 94367-09-18 01:55 G 36188158.42 36188158.58 36188158.77 0.0061 0.0018

Pluto 94367-12-15 03:07 G 36188246.48 36188246.63 36188246.81 0.0062 0.0028

Pluto 94368-03-12 04:05 G 36188334.55 36188334.67 36188334.84 0.0062 0.0039

Pluto 94368-06-08 05:31 G 36188422.63 36188422.73 36188422.85 0.0062 0.0049

Pluto 94368-09-04 06:29 G 36188510.75 36188510.77 36188510.84 0.0062 0.0060

Mars 94368-11-25 20:38 G 36188593.22 36188593.36 36188593.50 0.1957 0.1033

Earth 94370-12-08 06:29 G 36189335.66 36189335.77 36189335.87 0.2634 0.0670

Moon 94370-12-08 06:57 G 36189335.69 36189335.79 36189335.90 0.2636 0.0776 *

Mars 94371-08-27 02:53 G 36189597.56 36189597.62 36189597.68 0.1587 0.1319

Jupiter 94372-01-07 23:45 G 36189731.31 36189731.49 36189731.68 0.0512 0.0008

Mars 94373-08-01 03:36 G 36190302.53 36190302.65 36190302.77 0.1583 0.0117

Mars 94375-07-07 04:48 G 36191007.70 36191007.70 36191007.71 0.1581 0.1576

Jupiter 94377-09-02 00:57 G 36191795.42 36191795.54 36191795.66 0.0514 0.0154

Jupiter 94377-11-30 05:02 G 36191884.69 36191884.71 36191884.72 0.0512 0.0507

Venus 94378-02-23 12:00 G 36191969.98 36191970.00 36191970.02 0.3627 0.3524

Mars 94378-04-17 12:29 G 36192022.86 36192023.02 36192023.18 0.1956 0.0326

Saturn 94381-06-01 18:29 G 36193164.15 36193164.27 36193164.40 0.0289 0.0213

Saturn 94381-08-29 19:55 G 36193253.14 36193253.33 36193253.52 0.0290 0.0005

Saturn 94381-11-26 21:07 G 36193342.27 36193342.38 36193342.50 0.0291 0.0224

Mars 94382-12-22 15:21 G 36193733.02 36193733.14 36193733.26 0.1583 0.0238

Venus 94383-09-09 02:53 G 36193993.53 36193993.62 36193993.71 0.3625 0.1608

Jupiter 94383-10-26 20:24 G 36194041.19 36194041.35 36194041.52 0.0512 0.0236

Earth 94383-12-10 23:45 G 36194086.43 36194086.49 36194086.56 0.2633 0.2092

Moon 94383-12-11 00:29 G 36194086.46 36194086.52 36194086.58 0.2629 0.2188 *

Mars 94384-11-26 16:33 G 36194438.11 36194438.19 36194438.26 0.1581 0.1219

Venus 94386-06-18 05:02 G 36195006.59 36195006.71 36195006.83 0.3749 0.2598

Mars 94387-09-07 04:05 G 36195452.59 36195452.67 36195452.75 0.1954 0.1698

Venus 94389-03-24 17:31 G 36196017.13 36196017.23 36196017.33 0.3624 0.0337

Jupiter 94389-06-21 05:31 G 36196105.63 36196105.73 36196105.83 0.0514 0.0320

Jupiter 94389-09-18 09:21 G 36196194.80 36196194.89 36196194.99 0.0512 0.0340

Earth 94390-12-04 00:14 G 36196636.43 36196636.51 36196636.59 0.2636 0.1866

Moon 94390-12-04 00:14 G 36196636.44 36196636.51 36196636.58 0.2643 0.1933 *

Mars 94392-05-14 03:07 G 36197163.52 36197163.63 36197163.74 0.1584 0.0588

Mars 94394-04-19 04:05 G 36197868.57 36197868.67 36197868.77 0.1582 0.0861

Saturn 94394-07-13 22:19 G 36197954.34 36197954.43 36197954.53 0.0275 0.0183

Venus 94394-10-08 08:24 G 36198040.77 36198040.85 36198040.93 0.3622 0.2269

Saturn 94394-10-10 08:53 G 36198042.74 36198042.87 36198043.00 0.0274 0.0057

Saturn 94395-01-06 19:12 G 36198131.17 36198131.30 36198131.43 0.0273 0.0067

Saturn 94395-04-05 05:17 G 36198219.64 36198219.72 36198219.82 0.0271 0.0190

Jupiter 94395-08-14 16:48 G 36198351.14 36198351.20 36198351.26 0.0512 0.0481

Jupiter 94401-04-09 10:19 G 36200415.89 36200415.93 36200415.98 0.0514 0.0480

Jupiter 94401-07-07 14:09 G 36200504.98 36200505.09 36200505.21 0.0512 0.0180

Mars 94401-10-04 14:53 G 36200594.03 36200594.12 36200594.22 0.1585 0.0938

Mars 94403-09-09 15:50 G 36201299.05 36201299.16 36201299.27 0.1582 0.0506

Earth 94403-12-06 17:45 G 36201387.13 36201387.24 36201387.35 0.2635 0.0471

Moon 94403-12-06 18:14 G 36201387.15 36201387.26 36201387.37 0.2640 0.0330 *

Uranus 94406-02-02 00:29 G 36202175.52 36202175.52 36202175.53 0.0142 0.0142

Uranus 94406-05-01 03:50 G 36202263.60 36202263.66 36202263.73 0.0142 0.0121

Uranus 94406-07-28 07:12 G 36202351.72 36202351.80 36202351.90 0.0142 0.0100

Uranus 94406-10-24 10:48 G 36202439.84 36202439.95 36202440.06 0.0142 0.0078

Uranus 94407-01-20 14:24 G 36202527.98 36202528.10 36202528.22 0.0142 0.0057

Uranus 94407-04-18 17:45 G 36202616.11 36202616.24 36202616.37 0.0143 0.0035

Moon 94407-06-10 11:45 G 36202668.84 36202668.99 36202669.15 0.2696 0.0185

Earth 94407-06-10 13:26 G 36202668.91 36202669.06 36202669.22 0.2698 0.0435 *

Neptune 94407-07-15 16:05 G 36202704.13 36202704.17 36202704.22 0.0088 0.0081

Uranus 94407-07-15 21:21 G 36202704.26 36202704.39 36202704.52 0.0143 0.0014

Jupiter 94407-09-01 03:36 G 36202751.50 36202751.65 36202751.80 0.0513 0.0292

Neptune 94407-10-11 17:17 G 36202792.16 36202792.22 36202792.30 0.0088 0.0074

Uranus 94407-10-12 00:43 G 36202792.40 36202792.53 36202792.66 0.0143 0.0009

Neptune 94408-01-07 18:29 G 36202880.20 36202880.27 36202880.36 0.0088 0.0067

Uranus 94408-01-08 04:19 G 36202880.55 36202880.68 36202880.81 0.0143 0.0030

Neptune 94408-04-04 19:55 G 36202968.24 36202968.33 36202968.43 0.0088 0.0060

Uranus 94408-04-05 07:41 G 36202968.70 36202968.82 36202968.95 0.0143 0.0052

Mars 94408-05-26 21:36 G 36203020.27 36203020.40 36203020.54 0.1957 0.1129

Neptune 94408-07-01 21:07 G 36203056.28 36203056.38 36203056.49 0.0088 0.0053

Uranus 94408-07-02 11:17 G 36203056.86 36203056.97 36203057.09 0.0143 0.0074

Neptune 94408-09-27 22:33 G 36203144.33 36203144.44 36203144.55 0.0088 0.0046

Uranus 94408-09-28 14:38 G 36203145.02 36203145.11 36203145.22 0.0143 0.0096

Neptune 94408-12-24 23:45 G 36203232.37 36203232.49 36203232.61 0.0088 0.0039

Uranus 94408-12-25 18:14 G 36203233.20 36203233.26 36203233.34 0.0143 0.0118

Neptune 94409-03-23 00:57 G 36203320.42 36203320.54 36203320.67 0.0088 0.0032

Uranus 94409-03-23 21:50 G 36203321.39 36203321.41 36203321.44 0.0143 0.0140

Neptune 94409-06-19 02:24 G 36203408.47 36203408.60 36203408.72 0.0088 0.0025

Neptune 94409-09-15 03:36 G 36203496.52 36203496.65 36203496.78 0.0088 0.0018

Neptune 94409-12-12 04:48 G 36203584.57 36203584.70 36203584.84 0.0088 0.0011

Neptune 94410-03-10 06:14 G 36203672.62 36203672.76 36203672.89 0.0088 0.0004

Neptune 94410-06-06 07:26 G 36203760.68 36203760.81 36203760.94 0.0088 0.0003

Neptune 94410-09-02 08:38 G 36203848.73 36203848.86 36203849.00 0.0088 0.0010

Neptune 94410-11-29 09:50 G 36203936.79 36203936.91 36203937.05 0.0088 0.0018

Saturn 94411-01-16 15:36 G 36203984.97 36203985.15 36203985.34 0.0289 0.0078

Mars 94411-02-25 02:53 G 36204024.55 36204024.62 36204024.68 0.1587 0.1289

Neptune 94411-02-25 11:17 G 36204024.84 36204024.97 36204025.10 0.0088 0.0024

Saturn 94411-04-15 16:48 G 36204074.04 36204074.20 36204074.37 0.0290 0.0142

Neptune 94411-05-24 12:29 G 36204112.90 36204113.02 36204113.15 0.0088 0.0032

Neptune 94411-08-20 13:41 G 36204200.96 36204201.07 36204201.20 0.0088 0.0039

Neptune 94411-11-16 15:07 G 36204289.02 36204289.13 36204289.25 0.0088 0.0046

Neptune 94412-02-12 16:19 G 36204377.08 36204377.18 36204377.29 0.0088 0.0053

Neptune 94412-05-10 17:31 G 36204465.14 36204465.23 36204465.34 0.0088 0.0060

Neptune 94412-08-06 18:57 G 36204553.21 36204553.29 36204553.38 0.0088 0.0067

Neptune 94412-11-02 20:24 G 36204641.28 36204641.35 36204641.42 0.0088 0.0074

Neptune 94413-01-29 21:21 G 36204729.36 36204729.39 36204729.45 0.0088 0.0082

Mars 94413-01-30 03:36 G 36204729.53 36204729.65 36204729.76 0.1582 0.0155

Jupiter 94413-04-25 18:57 G 36204815.16 36204815.29 36204815.42 0.0513 0.0016

Earth 94416-12-08 11:17 G 36206137.86 36206137.97 36206138.07 0.2634 0.0956

Moon 94416-12-08 11:45 G 36206137.89 36206137.99 36206138.10 0.2634 0.1026 *

Mars 94417-10-16 13:26 G 36206449.90 36206450.06 36206450.23 0.1956 0.0236

Jupiter 94419-06-20 00:00 G 36207061.31 36207061.50 36207061.68 0.0513 0.0045

Mars 94422-06-22 15:21 G 36208160.02 36208160.14 36208160.26 0.1583 0.0206

Saturn 94423-12-01 00:14 G 36208686.44 36208686.51 36208686.58 0.0275 0.0229

Saturn 94424-02-27 10:33 G 36208774.82 36208774.94 36208775.06 0.0274 0.0103

Saturn 94424-05-25 20:53 G 36208863.24 36208863.37 36208863.50 0.0273 0.0022

Mars 94424-05-27 16:19 G 36208865.11 36208865.18 36208865.26 0.1581 0.1254

Saturn 94424-08-22 07:12 G 36208951.69 36208951.80 36208951.91 0.0272 0.0144

Saturn 94424-11-18 17:31 G 36209040.21 36209040.23 36209040.25 0.0270 0.0266

Jupiter 94425-02-12 00:00 G 36209125.37 36209125.50 36209125.62 0.0514 0.0144

Mars 94427-03-08 04:33 G 36209879.60 36209879.69 36209879.78 0.1954 0.1636

Earth 94429-12-11 04:33 G 36210888.65 36210888.69 36210888.74 0.2633 0.2380

Moon 94429-12-11 05:17 G 36210888.68 36210888.72 36210888.75 0.2629 0.2444 *

Jupiter 94431-04-07 19:41 G 36211371.16 36211371.32 36211371.50 0.0512 0.0210

Mars 94431-11-13 03:07 G 36211590.52 36211590.63 36211590.74 0.1584 0.0554

Mars 94433-10-18 04:05 G 36212295.58 36212295.67 36212295.77 0.1581 0.0896

Venus 94434-09-30 09:07 G 36212642.82 36212642.88 36212642.94 0.3626 0.2833

Jupiter 94436-12-01 05:02 G 36213435.60 36213435.71 36213435.81 0.0514 0.0299

Earth 94436-12-04 05:02 G 36213438.62 36213438.71 36213438.80 0.2636 0.1586

Moon 94436-12-04 05:17 G 36213438.63 36213438.72 36213438.80 0.2642 0.1516 *

Jupiter 94437-02-28 08:53 G 36213524.78 36213524.87 36213524.96 0.0512 0.0363

Venus 94440-04-15 00:00 G 36214666.40 36214666.50 36214666.60 0.3625 0.0900

Saturn 94440-06-04 10:48 G 36214716.80 36214716.95 36214717.11 0.0289 0.0164

Moon 94440-06-07 11:02 G 36214719.92 36214719.96 36214720.01 0.2692 0.2563

Earth 94440-06-07 12:29 G 36214719.94 36214720.02 36214720.10 0.2697 0.2273 *

Saturn 94440-09-01 12:00 G 36214805.82 36214806.00 36214806.19 0.0290 0.0054

Saturn 94440-11-29 13:12 G 36214894.99 36214895.05 36214895.12 0.0291 0.0272

Mars 94441-04-04 14:53 G 36215021.03 36215021.12 36215021.22 0.1585 0.0905

Venus 94443-01-23 08:24 G 36215679.69 36215679.85 36215680.02 0.3749 0.0324

Jupiter 94443-01-24 16:19 G 36215681.10 36215681.18 36215681.27 0.0512 0.0453

Mars 94443-03-10 15:50 G 36215726.05 36215726.16 36215726.27 0.1582 0.0539

Venus 94445-10-29 14:53 G 36216690.02 36216690.12 36216690.21 0.3623 0.1040

Uranus 94447-08-23 20:53 G 36217353.29 36217353.37 36217353.48 0.0136 0.0117

Uranus 94447-11-20 04:33 G 36217441.55 36217441.69 36217441.85 0.0136 0.0089

Mars 94447-11-25 22:48 G 36217447.32 36217447.45 36217447.58 0.1957 0.1228

Uranus 94448-02-16 12:00 G 36217529.84 36217530.00 36217530.19 0.0136 0.0062

Uranus 94448-05-14 19:41 G 36217618.14 36217618.32 36217618.51 0.0136 0.0034

Uranus 94448-08-11 03:07 G 36217706.44 36217706.63 36217706.83 0.0136 0.0007

Jupiter 94448-09-19 09:36 G 36217745.85 36217745.90 36217745.96 0.0514 0.0461

Uranus 94448-11-07 10:33 G 36217794.75 36217794.94 36217795.14 0.0136 0.0022

Jupiter 94448-12-17 13:41 G 36217834.95 36217835.07 36217835.18 0.0512 0.0198

Uranus 94449-02-03 18:00 G 36217883.07 36217883.25 36217883.43 0.0135 0.0049

Uranus 94449-05-03 01:26 G 36217971.40 36217971.56 36217971.72 0.0135 0.0076

Uranus 94449-07-30 08:38 G 36218059.74 36218059.86 36218059.99 0.0135 0.0103

Uranus 94449-10-26 16:05 G 36218148.12 36218148.17 36218148.22 0.0135 0.0130

Earth 94449-12-06 22:33 G 36218189.33 36218189.44 36218189.55 0.2635 0.0195

Moon 94449-12-06 23:02 G 36218189.35 36218189.46 36218189.57 0.2639 0.0160 *

Mars 94450-08-26 02:53 G 36218451.55 36218451.62 36218451.69 0.1587 0.1252

Venus 94451-05-15 05:31 G 36218713.68 36218713.73 36218713.79 0.3622 0.2970

Mars 94452-07-31 03:36 G 36219156.53 36219156.65 36219156.76 0.1582 0.0189

Moon 94453-06-10 18:29 G 36219471.12 36219471.27 36219471.42 0.2698 0.0884

Earth 94453-06-10 20:09 G 36219471.20 36219471.34 36219471.48 0.2698 0.1041 *

Saturn 94453-07-16 12:14 G 36219506.91 36219507.01 36219507.12 0.0275 0.0152

Saturn 94453-10-12 22:48 G 36219595.32 36219595.45 36219595.58 0.0274 0.0026

Saturn 94454-01-09 09:07 G 36219683.76 36219683.88 36219684.00 0.0273 0.0098

Saturn 94454-04-07 19:26 G 36219772.24 36219772.31 36219772.39 0.0272 0.0221

Jupiter 94455-02-11 02:53 G 36220081.47 36220081.62 36220081.77 0.0514 0.0316

Mars 94457-04-16 14:09 G 36220876.93 36220877.09 36220877.26 0.1956 0.0152

Pluto 94459-02-02 21:36 G 36221534.36 36221534.40 36221534.47 0.0083 0.0077

Pluto 94459-05-01 23:02 G 36221622.37 36221622.46 36221622.57 0.0083 0.0056

Pluto 94459-07-29 00:29 G 36221710.40 36221710.52 36221710.65 0.0083 0.0036

Pluto 94459-10-25 01:55 G 36221798.44 36221798.58 36221798.72 0.0083 0.0016

Pluto 94460-01-21 03:07 G 36221886.50 36221886.63 36221886.77 0.0083 0.0005

Pluto 94460-04-18 04:19 G 36221974.56 36221974.68 36221974.82 0.0083 0.0024

Pluto 94460-07-15 05:31 G 36222062.62 36222062.73 36222062.86 0.0083 0.0044

Jupiter 94460-10-05 18:29 G 36222145.14 36222145.27 36222145.40 0.0512 0.0039

Pluto 94460-10-11 06:57 G 36222150.71 36222150.79 36222150.88 0.0083 0.0063

Pluto 94461-01-07 08:24 G 36222238.85 36222238.85 36222238.85 0.0082 0.0082

Mars 94461-12-21 15:21 G 36222587.02 36222587.14 36222587.26 0.1583 0.0168

Earth 94462-12-09 15:50 G 36222940.07 36222940.16 36222940.26 0.2634 0.1237

Moon 94462-12-09 16:33 G 36222940.10 36222940.19 36222940.29 0.2632 0.1384 *

Mars 94463-11-26 16:33 G 36223292.12 36223292.19 36223292.25 0.1581 0.1292

Mars 94466-09-06 05:45 G 36224306.64 36224306.74 36224306.85 0.1954 0.1527

Jupiter 94466-11-29 23:31 G 36224391.30 36224391.48 36224391.66 0.0513 0.0073

Saturn 94469-10-22 06:43 G 36225448.68 36225448.78 36225448.88 0.0288 0.0244

Saturn 94470-01-19 07:55 G 36225537.65 36225537.83 36225538.02 0.0289 0.0028

Saturn 94470-04-18 09:07 G 36225626.74 36225626.88 36225627.02 0.0290 0.0190

Mars 94471-05-14 03:07 G 36226017.52 36226017.63 36226017.74 0.1584 0.0523

Jupiter 94472-07-24 23:02 G 36226455.34 36226455.46 36226455.59 0.0513 0.0127

Mars 94473-04-18 04:05 G 36226722.58 36226722.67 36226722.77 0.1581 0.0932

Jupiter 94478-09-17 19:55 G 36228701.15 36228701.33 36228701.50 0.0512 0.0174

Mars 94480-10-03 14:53 G 36229448.02 36229448.12 36229448.22 0.1585 0.0872

Mars 94482-09-08 15:50 G 36230153.05 36230153.16 36230153.27 0.1582 0.0574

Saturn 94482-12-03 14:09 G 36230239.00 36230239.09 36230239.18 0.0275 0.0198

Earth 94482-12-05 09:50 G 36230240.81 36230240.91 36230241.00 0.2636 0.1304

Moon 94482-12-05 10:05 G 36230240.83 36230240.92 36230241.02 0.2642 0.1312 *

Saturn 94483-03-02 00:29 G 36230327.40 36230327.52 36230327.65 0.0274 0.0072

Saturn 94483-05-29 11:02 G 36230415.83 36230415.96 36230416.08 0.0273 0.0053

Saturn 94483-08-25 21:21 G 36230504.29 36230504.39 36230504.49 0.0272 0.0176

Jupiter 94484-05-13 04:05 G 36230765.56 36230765.67 36230765.77 0.0514 0.0287

Jupiter 94484-08-10 07:55 G 36230854.75 36230854.83 36230854.92 0.0512 0.0373

Moon 94486-06-08 17:45 G 36231522.12 36231522.24 36231522.36 0.2692 0.1719

Earth 94486-06-08 19:12 G 36231522.18 36231522.30 36231522.42 0.2697 0.1648 *

Mars 94487-05-26 23:17 G 36231874.34 36231874.47 36231874.59 0.1957 0.1293

Uranus 94490-02-22 07:55 G 36232876.80 36232876.83 36232876.87 0.0142 0.0136

Mars 94490-02-24 02:53 G 36232878.54 36232878.62 36232878.69 0.1587 0.1223

Uranus 94490-05-21 11:17 G 36232964.90 36232964.97 36232965.06 0.0142 0.0115

Jupiter 94490-07-06 15:36 G 36233011.05 36233011.15 36233011.25 0.0512 0.0428

Uranus 94490-08-17 14:53 G 36233053.02 36233053.12 36233053.22 0.0142 0.0093

Uranus 94490-11-13 18:29 G 36233141.15 36233141.27 36233141.38 0.0142 0.0072

Uranus 94491-02-09 21:50 G 36233229.29 36233229.41 36233229.53 0.0142 0.0050

Neptune 94491-03-29 17:45 G 36233277.17 36233277.24 36233277.35 0.0090 0.0080

Venus 94491-05-07 06:29 G 36233315.69 36233315.77 36233315.85 0.3626 0.2129

Uranus 94491-05-09 01:12 G 36233317.43 36233317.55 36233317.68 0.0143 0.0029

Neptune 94491-06-25 21:36 G 36233365.29 36233365.40 36233365.54 0.0090 0.0069

Uranus 94491-08-05 04:48 G 36233405.57 36233405.70 36233405.83 0.0143 0.0007

Neptune 94491-09-22 01:26 G 36233453.42 36233453.56 36233453.72 0.0090 0.0058

Uranus 94491-11-01 08:09 G 36233493.71 36233493.84 36233493.98 0.0143 0.0016

Neptune 94491-12-19 05:02 G 36233541.56 36233541.71 36233541.89 0.0090 0.0047

Uranus 94492-01-28 11:45 G 36233581.86 36233581.99 36233582.12 0.0143 0.0036

Mars 94492-01-30 03:36 G 36233583.53 36233583.65 36233583.76 0.1582 0.0224

Neptune 94492-03-16 08:53 G 36233629.70 36233629.87 36233630.06 0.0090 0.0036

Uranus 94492-04-25 15:07 G 36233670.02 36233670.13 36233670.26 0.0143 0.0059

Neptune 94492-06-12 12:43 G 36233717.85 36233718.03 36233718.22 0.0090 0.0024

Uranus 94492-07-22 18:43 G 36233758.18 36233758.28 36233758.39 0.0143 0.0080

Neptune 94492-09-08 16:19 G 36233806.00 36233806.18 36233806.38 0.0090 0.0014

Uranus 94492-10-18 22:19 G 36233846.34 36233846.43 36233846.52 0.0143 0.0102

Neptune 94492-12-05 20:09 G 36233894.15 36233894.34 36233894.54 0.0090 0.0003

Uranus 94493-01-15 01:55 G 36233934.52 36233934.58 36233934.64 0.0143 0.0124

Neptune 94493-03-04 00:00 G 36233982.30 36233982.50 36233982.69 0.0090 0.0009

Neptune 94493-05-31 03:36 G 36234070.46 36234070.65 36234070.84 0.0090 0.0020

Neptune 94493-08-27 07:12 G 36234158.62 36234158.80 36234158.99 0.0090 0.0031

Neptune 94493-11-23 10:48 G 36234246.79 36234246.95 36234247.13 0.0090 0.0042

Neptune 94494-02-19 14:09 G 36234334.95 36234335.09 36234335.27 0.0090 0.0053

Neptune 94494-05-18 17:45 G 36234423.13 36234423.24 36234423.40 0.0090 0.0064

Neptune 94494-08-14 21:50 G 36234511.31 36234511.41 36234511.52 0.0090 0.0074

Neptune 94494-11-11 01:12 G 36234599.51 36234599.55 36234599.62 0.0090 0.0085

Earth 94495-12-08 03:21 G 36234991.53 36234991.64 36234991.75 0.2635 0.0139

Moon 94495-12-08 03:50 G 36234991.55 36234991.66 36234991.77 0.2638 0.0255 *

Jupiter 94496-03-01 08:53 G 36235075.81 36235075.87 36235075.94 0.0514 0.0444

Jupiter 94496-05-29 12:57 G 36235164.93 36235165.04 36235165.15 0.0513 0.0218

Mars 94496-10-15 15:21 G 36235303.97 36235304.14 36235304.30 0.1957 0.0070

Venus 94496-11-19 21:21 G 36235339.29 36235339.39 36235339.49 0.3624 0.0236

Saturn 94499-06-08 03:21 G 36236269.47 36236269.64 36236269.82 0.0288 0.0112

Moon 94499-06-12 01:12 G 36236273.41 36236273.55 36236273.68 0.2700 0.1311

Earth 94499-06-12 02:53 G 36236273.50 36236273.62 36236273.74 0.2698 0.1653 *

Mars 94499-07-17 14:38 G 36236309.10 36236309.11 36236309.12 0.1588 0.1568

Venus 94499-08-30 12:00 G 36236352.92 36236353.00 36236353.08 0.3750 0.3242

Saturn 94499-09-05 04:33 G 36236358.52 36236358.69 36236358.87 0.0290 0.0105

Mars 94501-06-22 15:21 G 36237014.02 36237014.14 36237014.25 0.1583 0.0141

Venus 94502-06-06 12:00 G 36237362.92 36237363.00 36237363.09 0.3623 0.1738

Jupiter 94502-07-25 02:09 G 36237411.46 36237411.59 36237411.73 0.0513 0.0342

Mars 94503-05-28 16:33 G 36237719.12 36237719.19 36237719.25 0.1581 0.1328

Mars 94506-03-08 06:43 G 36238733.67 36238733.78 36238733.89 0.1954 0.1439

Jupiter 94508-03-18 17:45 G 36239475.11 36239475.24 36239475.36 0.0512 0.0057

Earth 94508-12-10 20:38 G 36239742.27 36239742.36 36239742.45 0.2634 0.1524

Moon 94508-12-10 21:21 G 36239742.30 36239742.39 36239742.48 0.2631 0.1564 *

Mars 94510-11-13 03:07 G 36240444.52 36240444.63 36240444.74 0.1584 0.0486

Saturn 94512-04-22 15:50 G 36240971.11 36240971.16 36240971.22 0.0276 0.0246

Saturn 94512-07-20 02:24 G 36241059.48 36241059.60 36241059.72 0.0275 0.0119

Saturn 94512-10-16 12:43 G 36241147.90 36241148.03 36241148.17 0.0274 0.0011

Mars 94512-10-18 04:05 G 36241149.58 36241149.67 36241149.76 0.1581 0.0967

Saturn 94513-01-12 23:17 G 36241236.35 36241236.47 36241236.58 0.0273 0.0131

Saturn 94513-04-11 09:36 G 36241324.86 36241324.90 36241324.94 0.0272 0.0254

Jupiter 94514-05-12 22:19 G 36241721.25 36241721.43 36241721.62 0.0513 0.0092

Moon 94515-12-04 20:53 G 36242292.34 36242292.37 36242292.41 0.2643 0.2477

Earth 94515-12-04 21:07 G 36242292.34 36242292.38 36242292.43 0.2637 0.2420 *

Jupiter 94520-01-05 22:33 G 36243785.32 36243785.44 36243785.56 0.0513 0.0104

Mars 94520-04-04 14:53 G 36243875.02 36243875.12 36243875.22 0.1585 0.0838

Mars 94522-03-10 15:50 G 36244580.05 36244580.16 36244580.27 0.1582 0.0611

Jupiter 94526-02-28 18:57 G 36246031.11 36246031.29 36246031.47 0.0513 0.0152

Mars 94526-11-26 00:14 G 36246301.40 36246301.51 36246301.63 0.1958 0.1396

Saturn 94528-10-26 00:00 G 36247001.36 36247001.50 36247001.64 0.0288 0.0187

Earth 94528-12-06 14:38 G 36247043.01 36247043.11 36247043.21 0.2636 0.1024

Moon 94528-12-06 14:53 G 36247043.02 36247043.12 36247043.23 0.2642 0.0937 *

Saturn 94529-01-23 01:12 G 36247090.36 36247090.55 36247090.74 0.0289 0.0030

Saturn 94529-04-22 02:09 G 36247179.50 36247179.59 36247179.69 0.0290 0.0247

Mars 94529-08-26 02:38 G 36247305.54 36247305.61 36247305.69 0.1587 0.1191

Mars 94531-08-01 03:21 G 36248010.53 36248010.64 36248010.76 0.1582 0.0257

Uranus 94531-09-14 03:21 G 36248054.55 36248054.64 36248054.77 0.0136 0.0112

Jupiter 94531-10-25 03:07 G 36248095.52 36248095.63 36248095.74 0.0513 0.0271

Uranus 94531-12-11 11:02 G 36248142.82 36248142.96 36248143.12 0.0136 0.0084

Jupiter 94532-01-22 06:57 G 36248184.71 36248184.79 36248184.87 0.0512 0.0387

Uranus 94532-03-08 18:43 G 36248231.11 36248231.28 36248231.46 0.0136 0.0056

Uranus 94532-06-05 02:09 G 36248319.41 36248319.59 36248319.79 0.0136 0.0029

Moon 94532-06-10 00:29 G 36248324.38 36248324.52 36248324.66 0.2694 0.1333

Earth 94532-06-10 01:55 G 36248324.44 36248324.58 36248324.73 0.2697 0.1020 *

Uranus 94532-09-01 09:50 G 36248407.71 36248407.91 36248408.10 0.0136 0.0002

Uranus 94532-11-28 17:17 G 36248496.03 36248496.22 36248496.41 0.0135 0.0027

Uranus 94533-02-25 00:43 G 36248584.35 36248584.53 36248584.70 0.0135 0.0054

Uranus 94533-05-24 07:41 G 36248672.68 36248672.82 36248672.99 0.0135 0.0082

Uranus 94533-08-20 15:07 G 36248761.03 36248761.13 36248761.26 0.0135 0.0108

Uranus 94533-11-16 22:19 G 36248849.43 36248849.43 36248849.46 0.0135 0.0135

Mars 94536-04-16 16:05 G 36249731.00 36249731.17 36249731.34 0.1956 0.0030

Jupiter 94537-12-17 15:21 G 36250341.02 36250341.14 36250341.25 0.0512 0.0398

Mars 94539-01-16 14:38 G 36250736.08 36250736.11 36250736.13 0.1588 0.1537

Mars 94540-12-21 15:21 G 36251441.02 36251441.14 36251441.25 0.1583 0.0111

Saturn 94541-12-07 04:05 G 36251791.57 36251791.67 36251791.78 0.0275 0.0165

Earth 94541-12-09 07:55 G 36251793.73 36251793.83 36251793.94 0.2635 0.0400

Moon 94541-12-09 08:38 G 36251793.75 36251793.86 36251793.97 0.2636 0.0435 *

Saturn 94542-03-05 14:38 G 36251879.98 36251880.11 36251880.24 0.0274 0.0039

Venus 94542-05-29 12:57 G 36251965.00 36251965.04 36251965.07 0.3627 0.3355

Saturn 94542-06-02 00:57 G 36251968.42 36251968.54 36251968.67 0.0273 0.0086

Saturn 94542-08-29 11:17 G 36252056.89 36252056.97 36252057.06 0.0272 0.0210

Mars 94542-11-26 16:19 G 36252146.13 36252146.18 36252146.24 0.1581 0.1361

Jupiter 94543-08-13 07:55 G 36252405.76 36252405.83 36252405.90 0.0514 0.0433

Jupiter 94543-11-10 11:45 G 36252494.88 36252494.99 36252495.11 0.0512 0.0228

Moon 94545-06-13 07:41 G 36253075.73 36253075.82 36253075.92 0.2700 0.2144

Earth 94545-06-13 09:36 G 36253075.82 36253075.90 36253075.98 0.2698 0.2271 *

Mars 94545-09-06 07:26 G 36253160.69 36253160.81 36253160.92 0.1955 0.1365

Venus 94547-12-13 03:36 G 36253988.56 36253988.65 36253988.75 0.3625 0.1437

Jupiter 94550-01-04 01:12 G 36254741.42 36254741.55 36254741.68 0.0513 0.0362

Mars 94550-05-14 03:07 G 36254871.51 36254871.63 36254871.74 0.1584 0.0455

Venus 94550-09-21 00:57 G 36255001.45 36255001.54 36255001.62 0.3748 0.3150

Mars 94552-04-18 04:05 G 36255576.58 36255576.67 36255576.76 0.1581 0.1003

Venus 94553-06-27 18:29 G 36256012.17 36256012.27 36256012.37 0.3624 0.0504

Earth 94554-12-12 01:26 G 36256544.48 36256544.56 36256544.64 0.2634 0.1812

Moon 94554-12-12 02:09 G 36256544.52 36256544.59 36256544.66 0.2631 0.1971 *

Jupiter 94555-08-29 16:48 G 36256805.08 36256805.20 36256805.33 0.0513 0.0071

Saturn 94558-03-14 19:55 G 36257733.27 36257733.33 36257733.41 0.0287 0.0266

Saturn 94558-06-11 21:21 G 36257822.20 36257822.39 36257822.57 0.0289 0.0051

Saturn 94558-09-08 22:19 G 36257911.28 36257911.43 36257911.59 0.0290 0.0167

Venus 94559-01-11 09:21 G 36258035.81 36258035.89 36258035.96 0.3623 0.2433

Mars 94559-10-04 14:53 G 36258302.02 36258302.12 36258302.22 0.1585 0.0804

Mars 94561-09-08 15:50 G 36259007.05 36259007.16 36259007.26 0.1582 0.0647

Jupiter 94561-10-22 21:36 G 36259051.22 36259051.40 36259051.59 0.0513 0.0116

Moon 94561-12-05 01:55 G 36259094.52 36259094.58 36259094.64 0.2643 0.2163

Earth 94561-12-05 01:55 G 36259094.52 36259094.58 36259094.65 0.2637 0.2140 *

Mars 94566-05-27 01:26 G 36260728.45 36260728.56 36260728.66 0.1958 0.1491

Jupiter 94567-06-17 21:36 G 36261115.28 36261115.40 36261115.53 0.0513 0.0091

Mars 94569-02-24 02:38 G 36261732.54 36261732.61 36261732.69 0.1586 0.1155

Mars 94571-01-30 03:36 G 36262437.53 36262437.65 36262437.76 0.1582 0.0296

Saturn 94571-04-26 06:00 G 36262523.67 36262523.75 36262523.84 0.0276 0.0211

Saturn 94571-07-23 16:33 G 36262612.07 36262612.19 36262612.32 0.0275 0.0084

Saturn 94571-10-20 03:07 G 36262700.50 36262700.63 36262700.76 0.0274 0.0043

Neptune 94572-01-14 14:38 G 36262787.08 36262787.11 36262787.15 0.0088 0.0084

Saturn 94572-01-16 13:26 G 36262788.96 36262789.06 36262789.16 0.0273 0.0166

Neptune 94572-04-11 16:05 G 36262875.11 36262875.17 36262875.23 0.0088 0.0077

Neptune 94572-07-08 17:17 G 36262963.15 36262963.22 36262963.30 0.0088 0.0070

Neptune 94572-10-04 18:14 G 36263051.19 36263051.26 36263051.37 0.0088 0.0064

Neptune 94572-12-31 19:55 G 36263139.23 36263139.33 36263139.43 0.0088 0.0056

Neptune 94573-03-29 20:53 G 36263227.27 36263227.37 36263227.49 0.0088 0.0050

Neptune 94573-06-25 22:19 G 36263315.32 36263315.43 36263315.55 0.0088 0.0042

Jupiter 94573-08-10 17:17 G 36263361.05 36263361.22 36263361.41 0.0513 0.0142

Neptune 94573-09-21 23:31 G 36263403.37 36263403.48 36263403.61 0.0088 0.0036

Neptune 94573-12-19 00:43 G 36263491.42 36263491.53 36263491.67 0.0088 0.0029

Uranus 94574-03-15 15:21 G 36263578.10 36263578.14 36263578.20 0.0142 0.0129

Neptune 94574-03-17 02:09 G 36263579.47 36263579.59 36263579.72 0.0088 0.0021

Uranus 94574-06-11 18:43 G 36263666.21 36263666.28 36263666.38 0.0142 0.0109

Neptune 94574-06-13 03:21 G 36263667.52 36263667.64 36263667.78 0.0088 0.0015

Uranus 94574-09-07 22:19 G 36263754.33 36263754.43 36263754.54 0.0142 0.0087

Neptune 94574-09-09 04:48 G 36263755.57 36263755.70 36263755.83 0.0088 0.0007

Uranus 94574-12-05 01:55 G 36263842.46 36263842.58 36263842.70 0.0142 0.0065

Neptune 94574-12-06 06:00 G 36263843.62 36263843.75 36263843.89 0.0088 0.0002

Earth 94574-12-07 19:26 G 36263845.20 36263845.31 36263845.41 0.2636 0.0740

Moon 94574-12-07 19:41 G 36263845.22 36263845.32 36263845.43 0.2641 0.0718 *

Uranus 94575-03-03 05:17 G 36263930.60 36263930.72 36263930.85 0.0142 0.0044

Neptune 94575-03-04 07:26 G 36263931.67 36263931.81 36263931.94 0.0088 0.0007

Uranus 94575-05-30 08:53 G 36264018.74 36264018.87 36264019.00 0.0143 0.0022

Neptune 94575-05-31 08:38 G 36264019.73 36264019.86 36264019.99 0.0088 0.0014

Uranus 94575-08-26 12:29 G 36264106.88 36264107.02 36264107.15 0.0143 0.0005

Neptune 94575-08-27 09:50 G 36264107.78 36264107.91 36264108.04 0.0088 0.0021

Mars 94575-10-16 17:02 G 36264158.04 36264158.21 36264158.37 0.1956 0.0128

Uranus 94575-11-22 15:50 G 36264195.03 36264195.16 36264195.29 0.0143 0.0021

Neptune 94575-11-23 11:17 G 36264195.84 36264195.97 36264196.09 0.0088 0.0028

Uranus 94576-02-18 19:12 G 36264283.18 36264283.30 36264283.43 0.0143 0.0044

Neptune 94576-02-19 12:29 G 36264283.90 36264284.02 36264284.14 0.0088 0.0035

Uranus 94576-05-16 22:48 G 36264371.34 36264371.45 36264371.57 0.0143 0.0065

Neptune 94576-05-17 13:26 G 36264371.96 36264372.06 36264372.19 0.0088 0.0043

Uranus 94576-08-13 02:24 G 36264459.50 36264459.60 36264459.71 0.0143 0.0087

Neptune 94576-08-13 14:53 G 36264460.02 36264460.12 36264460.24 0.0088 0.0050

Uranus 94576-11-09 06:00 G 36264547.66 36264547.75 36264547.83 0.0143 0.0109

Neptune 94576-11-09 16:05 G 36264548.08 36264548.17 36264548.28 0.0088 0.0057

Uranus 94577-02-05 09:21 G 36264635.85 36264635.89 36264635.95 0.0143 0.0131

Neptune 94577-02-05 17:17 G 36264636.14 36264636.22 36264636.33 0.0088 0.0064

Neptune 94577-05-04 18:43 G 36264724.21 36264724.28 36264724.37 0.0088 0.0071

Neptune 94577-07-31 20:09 G 36264812.28 36264812.34 36264812.40 0.0088 0.0078

Neptune 94577-10-27 21:21 G 36264900.37 36264900.39 36264900.43 0.0088 0.0085

Moon 94578-06-11 06:57 G 36265126.64 36265126.79 36265126.95 0.2696 0.0549

Earth 94578-06-11 08:38 G 36265126.71 36265126.86 36265127.02 0.2697 0.0400 *

Mars 94578-07-17 14:38 G 36265163.07 36265163.11 36265163.14 0.1588 0.1507

Jupiter 94579-04-06 02:24 G 36265425.50 36265425.60 36265425.72 0.0513 0.0251

Jupiter 94579-07-04 06:29 G 36265514.69 36265514.77 36265514.84 0.0511 0.0407

Mars 94580-06-21 15:21 G 36265868.02 36265868.14 36265868.25 0.1583 0.0084

Mars 94582-05-27 16:33 G 36266573.13 36266573.19 36266573.24 0.1581 0.1401

Mars 94585-03-07 08:24 G 36267587.73 36267587.85 36267587.98 0.1955 0.1265

Jupiter 94585-05-29 13:55 G 36267670.96 36267671.08 36267671.20 0.0512 0.0386

Saturn 94587-10-29 18:14 G 36268554.09 36268554.26 36268554.44 0.0288 0.0120

Earth 94587-12-10 12:43 G 36268595.93 36268596.03 36268596.14 0.2635 0.0675

Moon 94587-12-10 13:26 G 36268595.96 36268596.06 36268596.17 0.2635 0.0826 *

Saturn 94588-01-26 19:26 G 36268643.14 36268643.31 36268643.49 0.0289 0.0097

Mars 94589-11-12 02:53 G 36269298.51 36269298.62 36269298.74 0.1584 0.0425

Jupiter 94591-01-23 06:57 G 36269735.72 36269735.79 36269735.87 0.0514 0.0419

Jupiter 94591-04-22 10:48 G 36269824.84 36269824.95 36269825.07 0.0512 0.0240

Moon 94591-06-14 14:38 G 36269878.06 36269878.11 36269878.16 0.2700 0.2544

Mars 94591-10-18 04:05 G 36270003.58 36270003.67 36270003.76 0.1581 0.1039

Jupiter 94597-06-16 00:29 G 36272071.40 36272071.52 36272071.65 0.0514 0.0385

Venus 94599-01-03 10:05 G 36272637.86 36272637.92 36272637.99 0.3626 0.2661

Mars 94599-04-04 14:53 G 36272729.02 36272729.12 36272729.22 0.1585 0.0771

Saturn 94600-09-13 08:09 G 36273255.80 36273255.84 36273255.89 0.0276 0.0254

Saturn 94600-12-10 18:43 G 36273344.17 36273344.28 36273344.40 0.0275 0.0127

Earth 94600-12-13 06:14 G 36273346.70 36273346.76 36273346.83 0.2634 0.2100

Moon 94600-12-13 06:57 G 36273346.72 36273346.79 36273346.85 0.2630 0.2124 *

Saturn 94601-03-09 05:17 G 36273432.58 36273432.72 36273432.85 0.0274 0.0010

Mars 94601-03-10 15:36 G 36273434.05 36273434.15 36273434.26 0.1582 0.0680

Saturn 94601-06-05 15:36 G 36273521.03 36273521.15 36273521.27 0.0273 0.0125

Saturn 94601-09-02 01:55 G 36273609.53 36273609.58 36273609.63 0.0272 0.0248

Jupiter 94603-02-09 15:36 G 36274135.03 36274135.15 36274135.28 0.0513 0.0078

Venus 94604-07-20 00:57 G 36274661.44 36274661.54 36274661.64 0.3625 0.0731

Mars 94605-11-26 01:55 G 36275155.48 36275155.58 36275155.67 0.1958 0.1562

Venus 94607-04-29 04:19 G 36275674.52 36275674.68 36275674.85 0.3749 0.0218

Moon 94607-12-07 06:57 G 36275896.71 36275896.79 36275896.86 0.2643 0.1822

Earth 94607-12-07 06:43 G 36275896.71 36275896.78 36275896.86 0.2637 0.1857 *

Mars 94608-08-26 02:38 G 36276159.53 36276159.61 36276159.69 0.1587 0.1123

Jupiter 94609-04-04 20:09 G 36276381.17 36276381.34 36276381.53 0.0513 0.0129

Venus 94610-02-02 15:50 G 36276685.06 36276685.16 36276685.25 0.3624 0.1203

Mars 94610-08-01 03:21 G 36276864.53 36276864.64 36276864.76 0.1582 0.0328

Pluto 94611-09-11 07:26 G 36277270.76 36277270.81 36277270.90 0.0061 0.0056

Pluto 94611-12-08 09:07 G 36277358.76 36277358.88 36277359.00 0.0061 0.0046

Pluto 94612-03-05 09:50 G 36277446.78 36277446.91 36277447.08 0.0061 0.0036

Pluto 94612-06-01 11:02 G 36277534.81 36277534.96 36277535.14 0.0061 0.0025

Pluto 94612-08-28 12:29 G 36277622.85 36277623.02 36277623.20 0.0061 0.0014

Pluto 94612-11-24 13:41 G 36277710.89 36277711.07 36277711.26 0.0061 0.0004

Pluto 94613-02-20 14:53 G 36277798.94 36277799.12 36277799.31 0.0061 0.0007

Pluto 94613-05-19 15:50 G 36277887.00 36277887.16 36277887.35 0.0061 0.0018

Pluto 94613-08-15 17:17 G 36277975.06 36277975.22 36277975.39 0.0062 0.0028

Pluto 94613-11-11 18:14 G 36278063.13 36278063.26 36278063.42 0.0062 0.0039

Pluto 94614-02-07 19:12 G 36278151.21 36278151.30 36278151.43 0.0062 0.0050

Pluto 94614-05-06 20:38 G 36278239.33 36278239.36 36278239.41 0.0062 0.0060

Jupiter 94614-11-28 20:38 G 36278445.23 36278445.36 36278445.48 0.0513 0.0082

Mars 94615-04-17 17:45 G 36278585.08 36278585.24 36278585.41 0.1957 0.0216

Uranus 94615-07-09 02:38 G 36278667.59 36278667.61 36278667.65 0.0136 0.0134

Venus 94615-08-19 06:29 G 36278708.72 36278708.77 36278708.82 0.3622 0.3119

Uranus 94615-10-05 10:19 G 36278755.81 36278755.93 36278756.06 0.0136 0.0106

Uranus 94616-01-01 18:00 G 36278844.09 36278844.25 36278844.41 0.0136 0.0078

Uranus 94616-03-30 01:12 G 36278932.38 36278932.55 36278932.74 0.0136 0.0051

Uranus 94616-06-26 08:53 G 36279020.68 36279020.87 36279021.06 0.0135 0.0023

Uranus 94616-09-22 16:19 G 36279108.99 36279109.18 36279109.38 0.0135 0.0005

Uranus 94616-12-19 23:45 G 36279197.30 36279197.49 36279197.68 0.0135 0.0032

Uranus 94617-03-18 06:57 G 36279285.63 36279285.79 36279285.97 0.0135 0.0060

Saturn 94617-03-18 15:07 G 36279286.00 36279286.13 36279286.28 0.0287 0.0192

Uranus 94617-06-14 14:24 G 36279373.96 36279374.10 36279374.26 0.0135 0.0087

Saturn 94617-06-15 16:33 G 36279375.00 36279375.19 36279375.38 0.0289 0.0025

Uranus 94617-09-10 21:50 G 36279462.31 36279462.41 36279462.52 0.0135 0.0113

Saturn 94617-09-12 17:31 G 36279464.13 36279464.23 36279464.34 0.0290 0.0242

Mars 94618-01-16 14:38 G 36279590.06 36279590.11 36279590.15 0.1588 0.1472

Mars 94619-12-22 15:21 G 36280295.02 36280295.14 36280295.25 0.1583 0.0071

Earth 94620-12-09 00:14 G 36280647.40 36280647.51 36280647.62 0.2635 0.0460

Moon 94620-12-09 00:43 G 36280647.42 36280647.53 36280647.64 0.2640 0.0389 *

Jupiter 94621-01-21 16:19 G 36280691.00 36280691.18 36280691.37 0.0513 0.0123

Mars 94621-11-26 16:19 G 36281000.14 36281000.18 36281000.23 0.1581 0.1438

Moon 94624-06-12 13:41 G 36281928.91 36281929.07 36281929.23 0.2697 0.0095

Earth 94624-06-12 15:21 G 36281928.99 36281929.14 36281929.30 0.2697 0.0234 *

Mars 94624-09-06 09:36 G 36282014.76 36282014.90 36282015.03 0.1955 0.1167

Jupiter 94626-09-17 01:26 G 36282755.45 36282755.56 36282755.67 0.0513 0.0241

Jupiter 94626-12-15 05:17 G 36282844.65 36282844.72 36282844.79 0.0511 0.0416

Mars 94629-05-14 03:07 G 36283725.51 36283725.63 36283725.74 0.1584 0.0387

Saturn 94630-04-29 20:53 G 36284076.27 36284076.37 36284076.47 0.0276 0.0170

Saturn 94630-07-27 07:26 G 36284164.68 36284164.81 36284164.94 0.0275 0.0043

Saturn 94630-10-23 17:45 G 36284253.12 36284253.24 36284253.37 0.0274 0.0084

Saturn 94631-01-20 04:19 G 36284341.59 36284341.68 36284341.76 0.0273 0.0208

Mars 94631-04-19 04:05 G 36284430.58 36284430.67 36284430.76 0.1581 0.1075

Jupiter 94632-11-09 11:45 G 36285000.87 36285000.99 36285001.11 0.0513 0.0384

Earth 94633-12-11 17:31 G 36285398.13 36285398.23 36285398.33 0.2635 0.0960

Moon 94633-12-11 18:14 G 36285398.16 36285398.26 36285398.36 0.2634 0.1037 *

Jupiter 94638-07-06 06:14 G 36287065.69 36287065.76 36287065.84 0.0513 0.0401

Jupiter 94638-10-03 10:05 G 36287154.81 36287154.92 36287155.03 0.0511 0.0255

Mars 94638-10-04 14:53 G 36287156.01 36287156.12 36287156.22 0.1585 0.0738

Mars 94640-09-08 15:50 G 36287861.05 36287861.16 36287861.26 0.1581 0.0720

Jupiter 94644-11-26 22:33 G 36289401.32 36289401.44 36289401.56 0.0514 0.0389

Mars 94645-05-27 02:53 G 36289582.53 36289582.62 36289582.70 0.1958 0.1660

Saturn 94646-08-05 13:26 G 36290017.97 36290018.06 36290018.15 0.0287 0.0252

Saturn 94646-11-02 14:38 G 36290106.92 36290107.11 36290107.30 0.0288 0.0037

Earth 94646-12-14 11:02 G 36290148.92 36290148.96 36290149.01 0.2634 0.2390

Moon 94646-12-14 11:31 G 36290148.95 36290148.98 36290149.01 0.2629 0.2501 *

Saturn 94647-01-30 15:36 G 36290196.01 36290196.15 36290196.30 0.0289 0.0179

Mars 94648-02-25 02:38 G 36290586.53 36290586.61 36290586.69 0.1586 0.1090

Mars 94650-01-30 03:21 G 36291291.53 36291291.64 36291291.76 0.1582 0.0359

Jupiter 94650-07-22 14:24 G 36291464.98 36291465.10 36291465.23 0.0512 0.0087

Moon 94653-12-07 11:45 G 36292698.90 36292698.99 36292699.07 0.2643 0.1608

Earth 94653-12-07 11:31 G 36292698.90 36292698.98 36292699.07 0.2636 0.1575 *

Mars 94654-10-16 18:43 G 36293012.12 36293012.28 36293012.45 0.1956 0.0303

Venus 94655-08-11 07:26 G 36293310.72 36293310.81 36293310.89 0.3626 0.1968

Neptune 94655-09-29 12:57 G 36293360.00 36293360.04 36293360.12 0.0090 0.0085

Neptune 94655-12-26 16:48 G 36293448.10 36293448.20 36293448.32 0.0090 0.0074

Neptune 94656-03-23 20:38 G 36293536.23 36293536.36 36293536.51 0.0090 0.0063

Neptune 94656-06-20 00:14 G 36293624.37 36293624.51 36293624.68 0.0090 0.0052

Jupiter 94656-09-14 18:57 G 36293711.11 36293711.29 36293711.47 0.0513 0.0141

Neptune 94656-09-16 04:05 G 36293712.51 36293712.67 36293712.85 0.0090 0.0041

Neptune 94656-12-13 07:41 G 36293800.65 36293800.82 36293801.02 0.0090 0.0030

Neptune 94657-03-11 11:31 G 36293888.80 36293888.98 36293889.18 0.0090 0.0019

Neptune 94657-06-07 15:21 G 36293976.95 36293977.14 36293977.34 0.0090 0.0008

Moon 94657-06-10 12:57 G 36293980.01 36293980.04 36293980.07 0.2692 0.2640

Earth 94657-06-10 14:24 G 36293980.04 36293980.10 36293980.15 0.2696 0.2497 *

Mars 94657-07-17 14:24 G 36294017.06 36294017.10 36294017.15 0.1588 0.1440

Neptune 94657-09-03 19:12 G 36294065.10 36294065.30 36294065.49 0.0090 0.0004

Neptune 94657-11-30 22:48 G 36294153.26 36294153.45 36294153.64 0.0090 0.0015

Neptune 94658-02-27 02:24 G 36294241.42 36294241.60 36294241.79 0.0090 0.0026

Uranus 94658-04-05 22:48 G 36294279.39 36294279.45 36294279.51 0.0142 0.0124

Neptune 94658-05-26 06:00 G 36294329.58 36294329.75 36294329.94 0.0090 0.0037

Uranus 94658-07-03 02:09 G 36294367.51 36294367.59 36294367.69 0.0142 0.0103

Neptune 94658-08-22 09:36 G 36294417.75 36294417.90 36294418.08 0.0090 0.0048

Uranus 94658-09-29 05:31 G 36294455.63 36294455.73 36294455.85 0.0142 0.0082

Neptune 94658-11-18 13:12 G 36294505.92 36294506.05 36294506.21 0.0090 0.0059

Uranus 94658-12-26 09:07 G 36294543.77 36294543.88 36294544.00 0.0142 0.0060

Neptune 94659-02-14 17:17 G 36294594.10 36294594.22 36294594.34 0.0090 0.0069

Uranus 94659-03-24 12:43 G 36294631.90 36294632.03 36294632.16 0.0143 0.0038

Neptune 94659-05-13 20:38 G 36294682.28 36294682.36 36294682.45 0.0090 0.0080

Uranus 94659-06-20 16:05 G 36294720.04 36294720.17 36294720.31 0.0143 0.0017

Mars 94659-06-22 15:07 G 36294722.02 36294722.13 36294722.25 0.1583 0.0041

Uranus 94659-09-16 19:41 G 36294808.19 36294808.32 36294808.45 0.0143 0.0006

Saturn 94659-09-16 23:17 G 36294808.39 36294808.47 36294808.56 0.0276 0.0210 *

Uranus 94659-12-13 23:02 G 36294896.34 36294896.46 36294896.60 0.0143 0.0028

Saturn 94659-12-14 09:50 G 36294896.78 36294896.91 36294897.03 0.0275 0.0082

Uranus 94660-03-11 02:38 G 36294984.49 36294984.61 36294984.74 0.0143 0.0049

Saturn 94660-03-11 20:09 G 36294985.21 36294985.34 36294985.47 0.0274 0.0045

Uranus 94660-06-07 06:14 G 36295072.65 36295072.76 36295072.87 0.0143 0.0071

Saturn 94660-06-08 06:43 G 36295073.68 36295073.78 36295073.88 0.0273 0.0169

Uranus 94660-09-03 09:36 G 36295160.81 36295160.90 36295161.01 0.0143 0.0093

Uranus 94660-11-30 13:12 G 36295248.98 36295249.05 36295249.13 0.0143 0.0115

Venus 94661-02-23 22:05 G 36295334.32 36295334.42 36295334.53 0.3625 0.0158

Uranus 94661-02-26 16:48 G 36295337.17 36295337.20 36295337.24 0.0143 0.0137

Mars 94661-05-27 16:19 G 36295427.14 36295427.18 36295427.22 0.1581 0.1471

Jupiter 94662-05-10 19:12 G 36295775.17 36295775.30 36295775.42 0.0513 0.0079

Venus 94663-12-04 07:55 G 36296347.72 36296347.83 36296347.94 0.3750 0.2714

Mars 94664-03-07 09:50 G 36296441.78 36296441.91 36296442.05 0.1955 0.1101

Venus 94666-09-09 12:57 G 36297357.95 36297358.04 36297358.13 0.3623 0.1883

Earth 94666-12-10 05:02 G 36297449.60 36297449.71 36297449.82 0.2635 0.0197

Moon 94666-12-10 05:31 G 36297449.62 36297449.73 36297449.84 0.2638 0.0054 *

Jupiter 94668-07-03 14:24 G 36298020.92 36298021.10 36298021.29 0.0513 0.0118

Mars 94668-11-12 02:53 G 36298152.51 36298152.62 36298152.74 0.1584 0.0353

Moon 94670-06-13 20:24 G 36298731.20 36298731.35 36298731.50 0.2697 0.0640

Earth 94670-06-13 22:05 G 36298731.28 36298731.42 36298731.57 0.2698 0.0845 *

Mars 94670-10-18 04:05 G 36298857.59 36298857.67 36298857.75 0.1581 0.1112

Jupiter 94674-02-27 00:00 G 36300085.39 36300085.50 36300085.61 0.0514 0.0240

Jupiter 94674-05-27 03:50 G 36300174.59 36300174.66 36300174.73 0.0512 0.0419

Saturn 94676-03-21 12:29 G 36300838.84 36300839.02 36300839.20 0.0288 0.0102

Saturn 94676-06-18 13:26 G 36300927.89 36300928.06 36300928.24 0.0289 0.0114

Mars 94678-04-04 14:53 G 36301583.01 36301583.12 36301583.22 0.1585 0.0704

Earth 94679-12-12 22:19 G 36302200.34 36302200.43 36302200.53 0.2634 0.1250

Moon 94679-12-12 23:02 G 36302200.37 36302200.46 36302200.55 0.2634 0.1379 *

Mars 94680-03-09 15:36 G 36302288.05 36302288.15 36302288.26 0.1582 0.0753

Jupiter 94680-04-21 10:19 G 36302330.81 36302330.93 36302331.06 0.0512 0.0370

Mars 94684-11-25 03:50 G 36304009.60 36304009.66 36304009.73 0.1958 0.1760

Jupiter 94685-12-16 04:48 G 36304395.63 36304395.70 36304395.78 0.0514 0.0399

Jupiter 94686-03-15 08:53 G 36304484.76 36304484.87 36304484.98 0.0512 0.0260

Mars 94687-08-26 02:38 G 36305013.53 36305013.61 36305013.70 0.1586 0.1054

Saturn 94689-02-03 01:55 G 36305540.52 36305540.58 36305540.63 0.0277 0.0248

Saturn 94689-05-02 12:14 G 36305628.90 36305629.01 36305629.13 0.0276 0.0121

Saturn 94689-07-29 22:48 G 36305717.32 36305717.45 36305717.58 0.0275 0.0007

Mars 94689-07-31 03:21 G 36305718.53 36305718.64 36305718.76 0.1582 0.0398

Saturn 94689-10-26 09:07 G 36305805.77 36305805.88 36305806.00 0.0273 0.0133

Saturn 94690-01-22 19:41 G 36305894.28 36305894.32 36305894.36 0.0272 0.0257

Jupiter 94692-05-08 19:55 G 36306731.21 36306731.33 36306731.45 0.0514 0.0381

Mars 94694-04-16 19:26 G 36307439.15 36307439.31 36307439.48 0.1957 0.0387

Mars 94697-01-15 14:24 G 36308444.05 36308444.10 36308444.15 0.1588 0.1408

Jupiter 94698-01-01 13:41 G 36308794.94 36308795.07 36308795.19 0.0512 0.0099

Mars 94698-12-21 15:07 G 36309149.02 36309149.13 36309149.25 0.1583 0.0061

Uranus 94699-07-29 09:36 G 36309368.85 36309368.90 36309368.98 0.0136 0.0127

Uranus 94699-10-25 17:17 G 36309457.10 36309457.22 36309457.36 0.0136 0.0099

Moon 94699-12-08 16:33 G 36309501.09 36309501.19 36309501.28 0.2643 0.1222

Earth 94699-12-08 16:19 G 36309501.09 36309501.18 36309501.28 0.2636 0.1294 *

Uranus 94700-01-22 00:57 G 36309545.38 36309545.54 36309545.71 0.0136 0.0071

Uranus 94700-04-20 08:24 G 36309633.67 36309633.85 36309634.04 0.0135 0.0044

Uranus 94700-07-17 15:50 G 36309721.97 36309722.16 36309722.36 0.0135 0.0016

Uranus 94700-10-13 23:31 G 36309810.28 36309810.48 36309810.67 0.0135 0.0012

Mars 94700-11-26 16:33 G 36309854.15 36309854.19 36309854.22 0.1581 0.1512

Uranus 94701-01-10 06:43 G 36309898.60 36309898.78 36309898.97 0.0135 0.0039

Uranus 94701-04-08 14:09 G 36309986.93 36309987.09 36309987.26 0.0135 0.0066

Uranus 94701-07-05 21:21 G 36310075.26 36310075.39 36310075.54 0.0135 0.0094

Uranus 94701-10-02 04:48 G 36310163.62 36310163.70 36310163.79 0.0135 0.0120

Moon 94703-06-12 19:26 G 36310782.22 36310782.31 36310782.41 0.2694 0.2173

Earth 94703-06-12 21:07 G 36310782.27 36310782.38 36310782.49 0.2696 0.1870 *

Mars 94703-09-07 11:17 G 36310868.83 36310868.97 36310869.11 0.1955 0.0989

Jupiter 94704-02-26 16:19 G 36311041.00 36311041.18 36311041.36 0.0514 0.0134

Pluto 94704-10-05 13:12 G 36311263.01 36311263.05 36311263.11 0.0084 0.0078

Pluto 94705-01-01 14:38 G 36311351.02 36311351.11 36311351.21 0.0083 0.0058

Pluto 94705-03-30 16:05 G 36311439.05 36311439.17 36311439.29 0.0083 0.0038

Pluto 94705-06-26 17:17 G 36311527.09 36311527.22 36311527.36 0.0083 0.0018

Saturn 94705-08-09 11:17 G 36311570.82 36311570.97 36311571.13 0.0287 0.0156

Pluto 94705-09-22 18:43 G 36311615.14 36311615.28 36311615.41 0.0083 0.0004

Saturn 94705-11-06 12:29 G 36311659.84 36311660.02 36311660.20 0.0288 0.0060

Pluto 94705-12-19 19:41 G 36311703.19 36311703.32 36311703.46 0.0083 0.0022

Saturn 94706-02-03 13:12 G 36311749.01 36311749.05 36311749.12 0.0289 0.0277

Pluto 94706-03-17 20:53 G 36311791.26 36311791.37 36311791.50 0.0083 0.0042

Pluto 94706-06-13 22:19 G 36311879.34 36311879.43 36311879.53 0.0083 0.0061

Venus 94706-09-02 13:55 G 36311960.03 36311960.08 36311960.12 0.3627 0.3199

Pluto 94706-09-09 23:31 G 36311967.46 36311967.48 36311967.51 0.0083 0.0081

Mars 94708-05-14 02:53 G 36312579.51 36312579.62 36312579.74 0.1584 0.0318

Jupiter 94709-10-21 18:00 G 36313105.12 36313105.25 36313105.37 0.0513 0.0077

Mars 94710-04-19 04:05 G 36313284.59 36313284.67 36313284.75 0.1581 0.1148

Venus 94712-03-18 04:33 G 36313983.60 36313983.69 36313983.79 0.3626 0.1273

Earth 94712-12-11 09:36 G 36314251.79 36314251.90 36314252.01 0.2635 0.0148

Moon 94712-12-11 10:19 G 36314251.82 36314251.93 36314252.04 0.2638 0.0182 *

Venus 94714-12-25 20:53 G 36314996.34 36314996.37 36314996.41 0.3748 0.3634

Jupiter 94715-12-15 12:29 G 36315350.84 36315351.02 36315351.21 0.0513 0.0115

Moon 94716-06-15 03:21 G 36315533.50 36315533.64 36315533.78 0.2698 0.1216

Earth 94716-06-15 05:02 G 36315533.58 36315533.71 36315533.84 0.2698 0.1470 *

Venus 94717-10-01 19:26 G 36316007.21 36316007.31 36316007.41 0.3624 0.0653

Mars 94717-10-04 14:53 G 36316010.01 36316010.12 36316010.22 0.1585 0.0671

Saturn 94718-09-20 15:07 G 36316361.02 36316361.13 36316361.24 0.0276 0.0156

Saturn 94718-12-18 01:26 G 36316449.43 36316449.56 36316449.69 0.0275 0.0030

Saturn 94719-03-16 12:00 G 36316537.88 36316538.00 36316538.12 0.0274 0.0097

Saturn 94719-06-12 22:19 G 36316626.36 36316626.43 36316626.51 0.0273 0.0222

Mars 94719-09-09 15:36 G 36316715.05 36316715.15 36316715.25 0.1581 0.0787

Jupiter 94721-08-09 22:33 G 36317415.33 36317415.44 36317415.55 0.0513 0.0242

Jupiter 94721-11-07 02:24 G 36317504.53 36317504.60 36317504.67 0.0511 0.0415

Venus 94723-04-17 10:19 G 36318030.86 36318030.93 36318030.99 0.3623 0.2582

Mars 94724-05-27 04:19 G 36318436.62 36318436.68 36318436.74 0.1958 0.1825

Earth 94725-12-14 03:07 G 36319002.54 36319002.63 36319002.72 0.2634 0.1540

Moon 94725-12-14 03:50 G 36319002.57 36319002.66 36319002.74 0.2633 0.1637 *

Mars 94727-02-25 02:38 G 36319440.52 36319440.61 36319440.70 0.1586 0.1023

Jupiter 94727-10-03 07:55 G 36319660.71 36319660.83 36319660.96 0.0512 0.0373

Mars 94729-01-30 03:21 G 36320145.53 36320145.64 36320145.76 0.1582 0.0432

Moon 94732-12-07 03:36 G 36321552.61 36321552.65 36321552.69 0.2644 0.2388

Earth 94732-12-07 03:50 G 36321552.62 36321552.66 36321552.70 0.2637 0.2412 *

Jupiter 94733-05-29 03:07 G 36321725.56 36321725.63 36321725.71 0.0514 0.0405

Jupiter 94733-08-26 07:12 G 36321814.69 36321814.80 36321814.91 0.0512 0.0255

Mars 94733-10-16 20:38 G 36321866.20 36321866.36 36321866.52 0.1957 0.0488

Saturn 94734-12-27 10:19 G 36322302.81 36322302.93 36322303.06 0.0287 0.0211

Saturn 94735-03-26 11:31 G 36322391.79 36322391.98 36322392.17 0.0288 0.0005

Saturn 94735-06-23 12:29 G 36322480.90 36322481.02 36322481.14 0.0289 0.0221

Neptune 94736-07-16 13:26 G 36322870.05 36322870.06 36322870.07 0.0088 0.0087

Mars 94736-07-17 14:24 G 36322871.05 36322871.10 36322871.16 0.1588 0.1372

Neptune 94736-10-12 14:24 G 36322958.06 36322958.10 36322958.17 0.0088 0.0081

Neptune 94737-01-08 15:36 G 36323046.10 36323046.15 36323046.24 0.0088 0.0074

Neptune 94737-04-06 17:02 G 36323134.14 36323134.21 36323134.31 0.0088 0.0067

Neptune 94737-07-03 18:14 G 36323222.18 36323222.26 36323222.37 0.0088 0.0060

Neptune 94737-09-29 19:41 G 36323310.22 36323310.32 36323310.43 0.0088 0.0053

Neptune 94737-12-26 20:53 G 36323398.27 36323398.37 36323398.49 0.0088 0.0046

Neptune 94738-03-24 22:05 G 36323486.31 36323486.42 36323486.55 0.0088 0.0039

Neptune 94738-06-20 23:31 G 36323574.36 36323574.48 36323574.61 0.0088 0.0032

Mars 94738-06-22 15:07 G 36323576.01 36323576.13 36323576.25 0.1583 0.0080

Neptune 94738-09-17 00:43 G 36323662.41 36323662.53 36323662.67 0.0088 0.0025

Neptune 94738-12-14 02:09 G 36323750.46 36323750.59 36323750.72 0.0088 0.0017

Neptune 94739-03-12 03:21 G 36323838.51 36323838.64 36323838.78 0.0088 0.0011

Neptune 94739-06-08 04:48 G 36323926.56 36323926.70 36323926.83 0.0088 0.0004

Neptune 94739-09-04 06:00 G 36324014.62 36324014.75 36324014.88 0.0088 0.0004

Jupiter 94739-10-20 18:00 G 36324061.13 36324061.25 36324061.38 0.0514 0.0387

Neptune 94739-12-01 07:12 G 36324102.67 36324102.80 36324102.94 0.0088 0.0011

Neptune 94740-02-27 08:24 G 36324190.73 36324190.85 36324190.99 0.0088 0.0018

Neptune 94740-05-25 09:50 G 36324278.78 36324278.91 36324279.04 0.0088 0.0025

Mars 94740-05-27 16:19 G 36324281.16 36324281.18 36324281.21 0.1581 0.1548

Neptune 94740-08-21 11:02 G 36324366.84 36324366.96 36324367.09 0.0088 0.0032

Neptune 94740-11-17 12:14 G 36324454.90 36324455.01 36324455.14 0.0088 0.0039

Neptune 94741-02-13 13:41 G 36324542.96 36324543.07 36324543.18 0.0088 0.0046

Neptune 94741-05-12 14:53 G 36324631.02 36324631.12 36324631.23 0.0088 0.0053

Neptune 94741-08-08 16:05 G 36324719.08 36324719.17 36324719.27 0.0088 0.0060

Neptune 94741-11-04 17:31 G 36324807.15 36324807.23 36324807.31 0.0088 0.0067

Uranus 94742-01-29 02:09 G 36324892.59 36324892.59 36324892.61 0.0142 0.0141

Neptune 94742-01-31 18:29 G 36324895.22 36324895.27 36324895.35 0.0088 0.0075

Uranus 94742-04-27 05:31 G 36324980.67 36324980.73 36324980.81 0.0142 0.0121

Neptune 94742-04-29 19:41 G 36324983.29 36324983.32 36324983.39 0.0088 0.0082

Uranus 94742-07-24 09:07 G 36325068.79 36325068.88 36325068.98 0.0142 0.0099

Uranus 94742-10-20 12:29 G 36325156.92 36325157.02 36325157.14 0.0142 0.0078

Uranus 94743-01-16 16:05 G 36325245.05 36325245.17 36325245.29 0.0143 0.0056

Mars 94743-03-08 12:00 G 36325295.86 36325296.00 36325296.15 0.1955 0.0903

Uranus 94743-04-14 19:41 G 36325333.19 36325333.32 36325333.45 0.0143 0.0034

Uranus 94743-07-11 23:02 G 36325421.33 36325421.46 36325421.60 0.0143 0.0013

Uranus 94743-10-08 02:38 G 36325509.48 36325509.61 36325509.74 0.0143 0.0009

Uranus 94744-01-04 06:14 G 36325597.63 36325597.76 36325597.89 0.0143 0.0031

Uranus 94744-04-01 09:36 G 36325685.78 36325685.90 36325686.03 0.0143 0.0053

Uranus 94744-06-28 13:12 G 36325773.94 36325774.05 36325774.16 0.0143 0.0075

Uranus 94744-09-24 16:48 G 36325862.10 36325862.20 36325862.30 0.0143 0.0097

Uranus 94744-12-21 20:09 G 36325950.28 36325950.34 36325950.42 0.0143 0.0119

Uranus 94745-03-19 23:45 G 36326038.48 36326038.49 36326038.52 0.0143 0.0141

Jupiter 94745-06-14 12:00 G 36326124.88 36326125.00 36326125.13 0.0512 0.0095

Earth 94745-12-09 21:07 G 36326303.28 36326303.38 36326303.48 0.2636 0.1013

Moon 94745-12-09 21:21 G 36326303.29 36326303.39 36326303.49 0.2642 0.1025 *

Mars 94747-11-13 02:53 G 36327006.51 36327006.62 36327006.74 0.1584 0.0281

Saturn 94748-02-07 17:45 G 36327093.16 36327093.24 36327093.34 0.0276 0.0192

Saturn 94748-05-06 04:19 G 36327181.56 36327181.68 36327181.81 0.0275 0.0064

Saturn 94748-08-02 14:53 G 36327269.99 36327270.12 36327270.25 0.0274 0.0063

Saturn 94748-10-30 01:12 G 36327358.46 36327358.55 36327358.65 0.0273 0.0189

Moon 94749-06-13 02:09 G 36327584.46 36327584.59 36327584.73 0.2694 0.1380

Earth 94749-06-13 03:50 G 36327584.52 36327584.66 36327584.80 0.2697 0.1244 *

Mars 94749-10-18 04:05 G 36327711.59 36327711.67 36327711.75 0.1581 0.1185

Jupiter 94751-08-08 12:57 G 36328370.86 36328371.04 36328371.23 0.0514 0.0118

Jupiter 94757-04-02 16:48 G 36330435.07 36330435.20 36330435.32 0.0512 0.0067

Mars 94757-04-04 14:38 G 36330437.01 36330437.11 36330437.22 0.1585 0.0638

Earth 94758-12-12 14:24 G 36331053.99 36331054.10 36331054.21 0.2635 0.0404

Moon 94758-12-12 15:07 G 36331054.02 36331054.13 36331054.24 0.2637 0.0556 *

Mars 94759-03-10 15:36 G 36331142.05 36331142.15 36331142.25 0.1581 0.0827

Moon 94762-06-16 10:05 G 36332335.80 36332335.92 36332336.03 0.2700 0.1828

Earth 94762-06-16 11:31 G 36332335.89 36332335.98 36332336.08 0.2698 0.2079 *

Venus 94763-04-09 11:02 G 36332632.89 36332632.96 36332633.03 0.3627 0.2501

Jupiter 94763-05-27 09:07 G 36332680.71 36332680.88 36332681.07 0.0513 0.0133

Mars 94763-11-26 05:31 G 36332863.71 36332863.73 36332863.75 0.1958 0.1932

Saturn 94764-05-15 09:36 G 36333034.83 36333034.90 36333034.98 0.0286 0.0260

Saturn 94764-08-12 10:48 G 36333123.76 36333123.95 36333124.14 0.0287 0.0046

Saturn 94764-11-09 11:45 G 36333212.84 36333212.99 36333213.15 0.0289 0.0170

Mars 94766-08-26 02:38 G 36333867.52 36333867.61 36333867.70 0.1586 0.0990

Mars 94768-07-31 03:21 G 36334572.53 36334572.64 36334572.75 0.1582 0.0465

Venus 94768-10-23 01:55 G 36334656.48 36334656.58 36334656.68 0.3625 0.0581

Jupiter 94769-01-19 20:53 G 36334745.26 36334745.37 36334745.48 0.0513 0.0243

Jupiter 94769-04-19 00:43 G 36334834.46 36334834.53 36334834.61 0.0511 0.0414

Venus 94771-08-02 00:29 G 36335669.35 36335669.52 36335669.68 0.3749 0.0727

Earth 94771-12-15 07:55 G 36335804.75 36335804.83 36335804.91 0.2634 0.1828

Moon 94771-12-15 08:38 G 36335804.78 36335804.86 36335804.93 0.2630 0.1884 *

Mars 94773-04-16 21:21 G 36336293.23 36336293.39 36336293.55 0.1957 0.0567

Venus 94774-05-08 16:33 G 36336680.10 36336680.19 36336680.29 0.3624 0.1353

Jupiter 94775-03-15 05:31 G 36336990.61 36336990.73 36336990.86 0.0512 0.0379

Mars 94776-01-16 14:24 G 36337298.04 36337298.10 36337298.16 0.1588 0.1340

Saturn 94777-06-26 21:07 G 36337825.31 36337825.38 36337825.46 0.0277 0.0223

Saturn 94777-09-23 07:41 G 36337913.69 36337913.82 36337913.94 0.0276 0.0095

Saturn 94777-12-20 18:00 G 36338002.12 36338002.25 36338002.38 0.0274 0.0033

Mars 94777-12-21 15:07 G 36338003.01 36338003.13 36338003.25 0.1583 0.0109

Saturn 94778-03-19 04:33 G 36338090.58 36338090.69 36338090.79 0.0273 0.0158

Moon 94778-12-08 08:24 G 36338354.79 36338354.85 36338354.91 0.2644 0.2208

Earth 94778-12-08 08:24 G 36338354.79 36338354.85 36338354.92 0.2637 0.2132 *

Venus 94779-11-22 07:26 G 36338703.77 36338703.81 36338703.85 0.3622 0.3272

Jupiter 94780-11-08 01:26 G 36339055.49 36339055.56 36339055.63 0.0514 0.0411

Jupiter 94781-02-05 05:17 G 36339144.61 36339144.72 36339144.83 0.0512 0.0247

Mars 94782-09-06 12:43 G 36339722.88 36339723.03 36339723.18 0.1955 0.0823

Uranus 94783-08-19 16:19 G 36340070.11 36340070.18 36340070.28 0.0136 0.0121

Uranus 94783-11-16 00:00 G 36340158.37 36340158.50 36340158.65 0.0136 0.0093

Uranus 94784-02-12 07:26 G 36340246.65 36340246.81 36340246.99 0.0135 0.0066

Uranus 94784-05-10 15:07 G 36340334.95 36340335.13 36340335.32 0.0135 0.0038

Uranus 94784-08-06 22:48 G 36340423.25 36340423.45 36340423.64 0.0135 0.0010

Uranus 94784-11-03 06:14 G 36340511.57 36340511.76 36340511.95 0.0135 0.0018

Uranus 94785-01-30 13:26 G 36340599.89 36340600.06 36340600.25 0.0135 0.0045

Uranus 94785-04-28 20:53 G 36340688.21 36340688.37 36340688.54 0.0135 0.0072

Uranus 94785-07-26 04:05 G 36340776.55 36340776.67 36340776.81 0.0135 0.0100

Uranus 94785-10-22 11:31 G 36340864.92 36340864.98 36340865.06 0.0135 0.0126

Jupiter 94787-04-01 15:21 G 36341391.01 36341391.14 36341391.26 0.0513 0.0377

Mars 94787-05-14 02:53 G 36341433.50 36341433.62 36341433.74 0.1584 0.0246

Mars 94789-04-18 04:05 G 36342138.59 36342138.67 36342138.74 0.1581 0.1222

Earth 94791-12-11 01:55 G 36343105.47 36343105.58 36343105.68 0.2636 0.0736

Moon 94791-12-11 02:24 G 36343105.49 36343105.60 36343105.70 0.2641 0.0614 *

Jupiter 94792-11-24 09:50 G 36343454.79 36343454.91 36343455.04 0.0513 0.0085

Saturn 94793-12-30 10:33 G 36343855.77 36343855.94 36343856.12 0.0288 0.0095

Saturn 94794-03-29 11:31 G 36343944.82 36343944.98 36343945.16 0.0289 0.0122

Moon 94795-06-14 08:53 G 36344386.73 36344386.87 36344387.02 0.2694 0.0963

Earth 94795-06-14 10:33 G 36344386.79 36344386.94 36344387.10 0.2697 0.0623 *

Mars 94796-10-03 14:38 G 36344864.01 36344864.11 36344864.22 0.1585 0.0602

Mars 94798-09-08 15:36 G 36345569.05 36345569.15 36345569.25 0.1581 0.0862

Jupiter 94799-01-18 10:48 G 36345700.77 36345700.95 36345701.14 0.0513 0.0119

Jupiter 94804-09-12 14:53 G 36347764.99 36347765.12 36347765.25 0.0513 0.0075

Earth 94804-12-12 19:12 G 36347856.20 36347856.30 36347856.41 0.2635 0.0687

Moon 94804-12-12 19:55 G 36347856.22 36347856.33 36347856.44 0.2637 0.0731 *

Mars 94806-02-24 02:38 G 36348294.52 36348294.61 36348294.70 0.1586 0.0953

Saturn 94806-11-14 00:14 G 36348557.46 36348557.51 36348557.56 0.0277 0.0254

Saturn 94807-02-10 10:48 G 36348645.84 36348645.95 36348646.07 0.0276 0.0125

Saturn 94807-05-09 21:21 G 36348734.26 36348734.39 36348734.52 0.0275 0.0006

Saturn 94807-08-06 07:41 G 36348822.71 36348822.82 36348822.94 0.0274 0.0128

Saturn 94807-11-02 18:00 G 36348911.21 36348911.25 36348911.30 0.0273 0.0253

Mars 94808-01-30 03:21 G 36348999.53 36348999.64 36348999.75 0.1582 0.0503

Moon 94808-06-16 16:48 G 36349138.15 36349138.20 36349138.25 0.2702 0.2557

Earth 94808-06-16 18:14 G 36349138.26 36349138.26 36349138.27 0.2698 0.2692

Jupiter 94810-11-06 05:45 G 36350010.56 36350010.74 36350010.91 0.0513 0.0155

Mars 94812-10-15 22:19 G 36350720.27 36350720.43 36350720.58 0.1957 0.0663

Mars 94815-07-17 14:24 G 36351725.03 36351725.10 36351725.16 0.1588 0.1308

Jupiter 94816-07-01 19:41 G 36352075.21 36352075.32 36352075.43 0.0513 0.0238

Jupiter 94816-09-28 23:31 G 36352164.41 36352164.48 36352164.55 0.0511 0.0418

Mars 94817-06-21 15:07 G 36352430.01 36352430.13 36352430.25 0.1582 0.0145

Earth 94817-12-15 12:43 G 36352606.97 36352607.03 36352607.10 0.2634 0.2117

Moon 94817-12-15 13:12 G 36352607.00 36352607.05 36352607.11 0.2629 0.2243 *

Venus 94819-11-14 08:24 G 36353305.76 36353305.85 36353305.93 0.3626 0.1803

Neptune 94820-06-26 12:00 G 36353530.92 36353531.00 36353531.10 0.0090 0.0079

Neptune 94820-09-22 15:50 G 36353619.04 36353619.16 36353619.29 0.0090 0.0068

Neptune 94820-12-19 19:26 G 36353707.17 36353707.31 36353707.47 0.0090 0.0057

Neptune 94821-03-17 23:17 G 36353795.31 36353795.47 36353795.64 0.0090 0.0046

Neptune 94821-06-14 02:53 G 36353883.45 36353883.62 36353883.81 0.0090 0.0035

Neptune 94821-09-10 06:43 G 36353971.60 36353971.78 36353971.97 0.0090 0.0024

Neptune 94821-12-07 10:33 G 36354059.75 36354059.94 36354060.13 0.0090 0.0013

Neptune 94822-03-05 14:09 G 36354147.90 36354148.09 36354148.29 0.0090 0.0003

Mars 94822-03-07 13:55 G 36354149.92 36354150.08 36354150.23 0.1955 0.0723

Neptune 94822-06-01 18:00 G 36354236.06 36354236.25 36354236.44 0.0090 0.0009

Jupiter 94822-08-25 01:41 G 36354320.46 36354320.57 36354320.69 0.0512 0.0405

Neptune 94822-08-28 21:36 G 36354324.21 36354324.40 36354324.59 0.0090 0.0020

Neptune 94822-11-25 01:12 G 36354412.38 36354412.55 36354412.74 0.0090 0.0031

Neptune 94823-02-21 04:48 G 36354500.54 36354500.70 36354500.88 0.0090 0.0043

Saturn 94823-05-19 10:48 G 36354587.78 36354587.95 36354588.11 0.0287 0.0138

Neptune 94823-05-20 08:24 G 36354588.71 36354588.85 36354589.02 0.0090 0.0054

Saturn 94823-08-16 11:45 G 36354676.81 36354676.99 36354677.17 0.0288 0.0077

Neptune 94823-08-16 12:14 G 36354676.88 36354677.01 36354677.15 0.0090 0.0064 *

Neptune 94823-11-12 15:50 G 36354765.07 36354765.16 36354765.28 0.0090 0.0075

Neptune 94824-02-08 19:26 G 36354853.27 36354853.31 36354853.38 0.0090 0.0086

Moon 94824-12-08 13:12 G 36355156.97 36355157.05 36355157.13 0.2643 0.1828

Earth 94824-12-08 13:12 G 36355156.98 36355157.05 36355157.13 0.2637 0.1852 *

Venus 94825-05-29 23:02 G 36355329.36 36355329.46 36355329.56 0.3624 0.0167

Uranus 94826-02-18 09:07 G 36355593.85 36355593.88 36355593.90 0.0142 0.0139

Uranus 94826-05-17 12:29 G 36355681.95 36355682.02 36355682.09 0.0142 0.0117

Uranus 94826-08-13 15:50 G 36355770.07 36355770.16 36355770.26 0.0142 0.0096

Uranus 94826-11-09 19:26 G 36355858.20 36355858.31 36355858.42 0.0142 0.0075

Mars 94826-11-12 02:53 G 36355860.50 36355860.62 36355860.73 0.1583 0.0215

Uranus 94827-02-05 22:48 G 36355946.33 36355946.45 36355946.58 0.0142 0.0053

Uranus 94827-05-05 02:24 G 36356034.47 36356034.60 36356034.73 0.0143 0.0031

Uranus 94827-08-01 06:00 G 36356122.61 36356122.75 36356122.88 0.0143 0.0011

Uranus 94827-10-28 09:21 G 36356210.76 36356210.89 36356211.02 0.0143 0.0012

Uranus 94828-01-24 12:57 G 36356298.91 36356299.04 36356299.17 0.0143 0.0034

Venus 94828-03-08 03:36 G 36356342.52 36356342.65 36356342.79 0.3749 0.2142

Jupiter 94828-04-19 23:45 G 36356385.42 36356385.49 36356385.56 0.0514 0.0415

Uranus 94828-04-21 16:19 G 36356387.06 36356387.18 36356387.31 0.0143 0.0056

Jupiter 94828-07-18 03:36 G 36356474.54 36356474.65 36356474.76 0.0512 0.0242

Uranus 94828-07-18 19:55 G 36356475.22 36356475.33 36356475.44 0.0143 0.0078

Uranus 94828-10-14 23:17 G 36356563.39 36356563.47 36356563.57 0.0143 0.0100

Mars 94828-10-17 04:05 G 36356565.60 36356565.67 36356565.74 0.1581 0.1259

Uranus 94829-01-11 02:53 G 36356651.56 36356651.62 36356651.70 0.0143 0.0122

Venus 94830-12-13 13:55 G 36357353.00 36357353.08 36357353.16 0.3623 0.2043

Jupiter 94834-09-11 12:29 G 36358720.89 36358721.02 36358721.15 0.0514 0.0366

Mars 94836-04-03 14:38 G 36359291.00 36359291.11 36359291.22 0.1585 0.0567

Saturn 94836-06-29 14:09 G 36359377.98 36359378.09 36359378.20 0.0276 0.0154

Saturn 94836-09-26 00:43 G 36359466.40 36359466.53 36359466.66 0.0275 0.0028

Saturn 94836-12-23 11:02 G 36359554.84 36359554.96 36359555.08 0.0274 0.0099

Saturn 94837-03-21 21:21 G 36359643.32 36359643.39 36359643.47 0.0273 0.0225

Earth 94837-12-11 06:29 G 36359907.67 36359907.77 36359907.88 0.2636 0.0458

Moon 94837-12-11 07:12 G 36359907.69 36359907.80 36359907.91 0.2640 0.0421 *

Mars 94838-03-09 15:36 G 36359996.05 36359996.15 36359996.25 0.1581 0.0895

Jupiter 94840-05-06 08:09 G 36360784.71 36360784.84 36360784.96 0.0512 0.0074

Moon 94841-06-14 15:50 G 36361189.00 36361189.16 36361189.31 0.2696 0.0137

Earth 94841-06-14 17:31 G 36361189.07 36361189.23 36361189.38 0.2697 0.0073 *

Mars 94845-08-25 02:24 G 36362721.51 36362721.60 36362721.70 0.1586 0.0923

Jupiter 94846-06-30 07:55 G 36363030.65 36363030.83 36363031.01 0.0513 0.0105

Mars 94847-07-31 03:21 G 36363426.53 36363426.64 36363426.75 0.1582 0.0539

Earth 94850-12-14 00:00 G 36364658.40 36364658.50 36364658.60 0.2635 0.0974

Moon 94850-12-14 00:43 G 36364658.43 36364658.53 36364658.63 0.2635 0.1136 *

Jupiter 94852-02-23 12:43 G 36365094.90 36365095.03 36365095.15 0.0513 0.0093

Mars 94852-04-15 23:17 G 36365147.31 36365147.47 36365147.62 0.1958 0.0757

Saturn 94852-10-05 10:33 G 36365319.81 36365319.94 36365320.09 0.0287 0.0186

Saturn 94853-01-02 11:45 G 36365408.81 36365408.99 36365409.18 0.0288 0.0031

Saturn 94853-04-01 12:57 G 36365497.94 36365498.04 36365498.13 0.0290 0.0247

Mars 94855-01-15 14:24 G 36366152.03 36366152.10 36366152.17 0.1588 0.1271

Mars 94856-12-20 15:07 G 36366857.01 36366857.13 36366857.25 0.1583 0.0180

Pluto 94857-05-11 20:53 G 36366999.33 36366999.37 36366999.44 0.0061 0.0058

Pluto 94857-08-07 21:50 G 36367087.32 36367087.41 36367087.55 0.0061 0.0048

Pluto 94857-11-03 23:17 G 36367175.34 36367175.47 36367175.63 0.0061 0.0037

Pluto 94858-01-31 00:29 G 36367263.37 36367263.52 36367263.70 0.0061 0.0027

Jupiter 94858-04-18 03:21 G 36367340.46 36367340.64 36367340.82 0.0512 0.0156

Pluto 94858-04-29 01:55 G 36367351.40 36367351.58 36367351.76 0.0061 0.0016

Pluto 94858-07-26 02:53 G 36367439.45 36367439.62 36367439.81 0.0061 0.0007

Pluto 94858-10-22 04:19 G 36367527.50 36367527.68 36367527.86 0.0061 0.0005

Pluto 94859-01-18 05:17 G 36367615.55 36367615.72 36367615.91 0.0061 0.0016

Pluto 94859-04-16 06:43 G 36367703.61 36367703.78 36367703.95 0.0061 0.0026

Pluto 94859-07-13 07:26 G 36367791.68 36367791.81 36367791.98 0.0062 0.0037

Pluto 94859-10-09 09:07 G 36367879.76 36367879.88 36367880.00 0.0062 0.0047

Pluto 94860-01-05 09:50 G 36367967.87 36367967.91 36367967.99 0.0062 0.0058

Mars 94861-09-05 14:53 G 36368576.96 36368577.12 36368577.28 0.1955 0.0625

Jupiter 94863-12-12 17:31 G 36369405.13 36369405.23 36369405.35 0.0513 0.0252

Earth 94863-12-16 17:31 G 36369409.19 36369409.23 36369409.27 0.2634 0.2407

Moon 94863-12-16 18:00 G 36369409.21 36369409.25 36369409.29 0.2629 0.2429 *

Jupiter 94864-03-10 21:21 G 36369494.32 36369494.39 36369494.47 0.0511 0.0407

Saturn 94865-11-16 17:31 G 36370110.14 36370110.23 36370110.33 0.0276 0.0182

Saturn 94866-02-13 04:05 G 36370198.54 36370198.67 36370198.80 0.0275 0.0055

Saturn 94866-05-12 14:24 G 36370286.98 36370287.10 36370287.23 0.0274 0.0072

Mars 94866-05-13 02:53 G 36370287.50 36370287.62 36370287.74 0.1583 0.0174

Saturn 94866-08-09 00:57 G 36370375.45 36370375.54 36370375.63 0.0273 0.0197

Uranus 94867-09-08 22:48 G 36370771.37 36370771.45 36370771.57 0.0136 0.0116

Uranus 94867-12-06 06:29 G 36370859.63 36370859.77 36370859.93 0.0136 0.0088

Uranus 94868-03-03 14:09 G 36370947.92 36370948.09 36370948.27 0.0136 0.0060

Mars 94868-04-17 04:05 G 36370992.60 36370992.67 36370992.73 0.1581 0.1296

Uranus 94868-05-30 21:50 G 36371036.22 36371036.41 36371036.60 0.0135 0.0032

Uranus 94868-08-27 05:17 G 36371124.53 36371124.72 36371124.92 0.0135 0.0005

Uranus 94868-11-23 12:43 G 36371212.84 36371213.03 36371213.22 0.0135 0.0023

Uranus 94869-02-19 20:09 G 36371301.16 36371301.34 36371301.52 0.0135 0.0050

Uranus 94869-05-19 03:36 G 36371389.50 36371389.65 36371389.81 0.0135 0.0078

Uranus 94869-08-15 10:33 G 36371477.84 36371477.94 36371478.08 0.0135 0.0106

Uranus 94869-11-11 18:00 G 36371566.23 36371566.25 36371566.31 0.0135 0.0132

Jupiter 94870-02-03 22:05 G 36371650.32 36371650.42 36371650.52 0.0512 0.0429

Venus 94870-12-05 14:53 G 36371955.06 36371955.12 36371955.17 0.3627 0.3029

Earth 94870-12-09 18:00 G 36371959.16 36371959.25 36371959.34 0.2637 0.1567

Moon 94870-12-09 18:14 G 36371959.17 36371959.26 36371959.34 0.2643 0.1564 *

Jupiter 94875-09-30 22:19 G 36373715.36 36373715.43 36373715.51 0.0514 0.0414

Mars 94875-10-03 14:38 G 36373718.00 36373718.11 36373718.22 0.1585 0.0532

Jupiter 94875-12-29 02:09 G 36373804.48 36373804.59 36373804.70 0.0512 0.0244

Venus 94876-06-20 05:31 G 36373978.64 36373978.73 36373978.83 0.3626 0.1109

Mars 94877-09-07 15:36 G 36374423.06 36374423.15 36374423.25 0.1581 0.0936

Venus 94882-01-03 20:24 G 36376002.25 36376002.35 36376002.45 0.3624 0.0817

Jupiter 94882-02-21 08:24 G 36376050.72 36376050.85 36376050.99 0.0514 0.0337

Saturn 94882-02-22 10:48 G 36376051.84 36376051.95 36376052.06 0.0286 0.0228

Saturn 94882-05-22 12:00 G 36376140.81 36376141.00 36376141.18 0.0288 0.0015

Saturn 94882-08-19 12:43 G 36376229.91 36376230.03 36376230.17 0.0289 0.0203

Earth 94883-12-12 11:17 G 36376709.86 36376709.97 36376710.08 0.2636 0.0194

Moon 94883-12-12 12:00 G 36376709.89 36376710.00 36376710.11 0.2640 0.0066 *

Mars 94885-02-23 02:24 G 36377148.51 36377148.60 36377148.70 0.1586 0.0889

Mars 94887-01-29 03:21 G 36377853.53 36377853.64 36377853.75 0.1582 0.0573

Moon 94887-06-15 22:33 G 36377991.28 36377991.44 36377991.60 0.2698 0.0304

Earth 94887-06-16 00:14 G 36377991.36 36377991.51 36377991.66 0.2697 0.0646 *

Venus 94887-07-20 11:02 G 36378025.90 36378025.96 36378026.03 0.3623 0.2739

Jupiter 94887-10-17 06:14 G 36378114.63 36378114.76 36378114.89 0.0512 0.0066

Mars 94891-10-16 00:00 G 36379574.35 36379574.50 36379574.65 0.1957 0.0844

Jupiter 94893-12-10 05:02 G 36380360.52 36380360.71 36380360.89 0.0513 0.0092

Mars 94894-07-16 14:24 G 36380579.02 36380579.10 36380579.17 0.1588 0.1240

Saturn 94895-04-05 21:07 G 36380842.30 36380842.38 36380842.47 0.0277 0.0210

Saturn 94895-07-03 07:41 G 36380930.69 36380930.82 36380930.94 0.0275 0.0082

Saturn 94895-09-29 18:00 G 36381019.12 36381019.25 36381019.38 0.0274 0.0045

Saturn 94895-12-27 04:33 G 36381107.59 36381107.69 36381107.79 0.0273 0.0171

Mars 94896-06-20 15:07 G 36381284.01 36381284.13 36381284.25 0.1582 0.0216

Earth 94896-12-14 04:48 G 36381460.61 36381460.70 36381460.80 0.2635 0.1264

Moon 94896-12-14 05:31 G 36381460.63 36381460.73 36381460.83 0.2633 0.1305 *

Jupiter 94899-08-05 10:48 G 36382424.82 36382424.95 36382425.07 0.0513 0.0104

Mars 94901-03-07 15:21 G 36383003.98 36383004.14 36383004.30 0.1956 0.0553

Neptune 94901-04-13 13:12 G 36383041.02 36383041.05 36383041.10 0.0088 0.0084

Neptune 94901-07-10 14:24 G 36383129.05 36383129.10 36383129.18 0.0088 0.0077

Neptune 94901-10-06 15:50 G 36383217.09 36383217.16 36383217.25 0.0088 0.0070

Neptune 94902-01-02 17:02 G 36383305.13 36383305.21 36383305.31 0.0088 0.0063

Neptune 94902-03-31 18:14 G 36383393.17 36383393.26 36383393.37 0.0088 0.0056

Neptune 94902-06-27 19:41 G 36383481.22 36383481.32 36383481.44 0.0088 0.0049

Neptune 94902-09-23 20:53 G 36383569.26 36383569.37 36383569.50 0.0088 0.0042

Neptune 94902-12-20 22:19 G 36383657.31 36383657.43 36383657.55 0.0088 0.0035

Neptune 94903-03-18 23:31 G 36383745.36 36383745.48 36383745.61 0.0088 0.0028

Neptune 94903-06-15 00:43 G 36383833.41 36383833.53 36383833.67 0.0088 0.0021

Neptune 94903-09-11 02:09 G 36383921.46 36383921.59 36383921.72 0.0088 0.0013

Neptune 94903-12-08 03:21 G 36384009.51 36384009.64 36384009.78 0.0088 0.0007

Neptune 94904-03-05 04:48 G 36384097.56 36384097.70 36384097.83 0.0088 0.0002

Neptune 94904-06-01 06:00 G 36384185.62 36384185.75 36384185.88 0.0088 0.0008

Neptune 94904-08-28 07:12 G 36384273.67 36384273.80 36384273.93 0.0088 0.0015

Neptune 94904-11-24 08:24 G 36384361.73 36384361.85 36384361.98 0.0088 0.0022

Neptune 94905-02-20 09:50 G 36384449.78 36384449.91 36384450.03 0.0088 0.0029

Neptune 94905-05-19 11:02 G 36384537.84 36384537.96 36384538.08 0.0088 0.0036

Neptune 94905-08-15 12:14 G 36384625.90 36384626.01 36384626.13 0.0088 0.0043

Jupiter 94905-09-29 00:29 G 36384670.34 36384670.52 36384670.69 0.0512 0.0169

Neptune 94905-11-11 13:41 G 36384713.96 36384714.07 36384714.18 0.0088 0.0050

Mars 94905-11-12 02:53 G 36384714.50 36384714.62 36384714.74 0.1583 0.0144

Neptune 94906-02-07 14:53 G 36384802.02 36384802.12 36384802.22 0.0088 0.0057

Neptune 94906-05-06 16:05 G 36384890.09 36384890.17 36384890.27 0.0088 0.0064

Neptune 94906-08-02 17:31 G 36384978.15 36384978.23 36384978.31 0.0088 0.0071

Neptune 94906-10-29 18:29 G 36385066.23 36385066.27 36385066.34 0.0088 0.0079

Neptune 94907-01-25 19:41 G 36385154.31 36385154.32 36385154.37 0.0088 0.0086

Mars 94907-10-18 04:05 G 36385419.61 36385419.67 36385419.73 0.1581 0.1334

Uranus 94910-03-11 15:50 G 36386295.13 36386295.16 36386295.20 0.0142 0.0135

Uranus 94910-06-07 19:12 G 36386383.23 36386383.30 36386383.39 0.0142 0.0114

Mars 94910-07-28 07:12 G 36386433.78 36386433.80 36386433.82 0.1953 0.1934

Uranus 94910-09-03 22:48 G 36386471.36 36386471.45 36386471.55 0.0142 0.0093

Uranus 94910-12-01 02:09 G 36386559.48 36386559.59 36386559.71 0.0142 0.0072

Uranus 94911-02-27 05:45 G 36386647.62 36386647.74 36386647.86 0.0142 0.0050

Jupiter 94911-05-25 15:21 G 36386735.03 36386735.14 36386735.24 0.0514 0.0271

Uranus 94911-05-26 09:21 G 36386735.76 36386735.89 36386736.02 0.0142 0.0028

Saturn 94911-07-13 11:02 G 36386783.91 36386783.96 36386784.01 0.0287 0.0274

Uranus 94911-08-22 12:43 G 36386823.90 36386824.03 36386824.16 0.0143 0.0007

Jupiter 94911-08-22 19:12 G 36386824.22 36386824.30 36386824.38 0.0512 0.0387

Saturn 94911-10-10 12:00 G 36386872.82 36386873.00 36386873.19 0.0288 0.0060

Uranus 94911-11-18 16:19 G 36386912.05 36386912.18 36386912.31 0.0143 0.0015

Saturn 94912-01-07 13:12 G 36386961.89 36386962.05 36386962.21 0.0289 0.0157

Uranus 94912-02-14 19:41 G 36387000.20 36387000.32 36387000.45 0.0143 0.0037

Uranus 94912-05-12 23:17 G 36387088.35 36387088.47 36387088.59 0.0143 0.0059

Uranus 94912-08-09 02:53 G 36387176.51 36387176.62 36387176.73 0.0143 0.0081

Uranus 94912-11-05 06:14 G 36387264.68 36387264.76 36387264.86 0.0143 0.0103

Uranus 94913-02-01 09:50 G 36387352.85 36387352.91 36387352.98 0.0143 0.0125

Mars 94915-04-04 14:38 G 36388145.00 36388145.11 36388145.22 0.1585 0.0497

Earth 94916-12-10 22:48 G 36388761.35 36388761.45 36388761.54 0.2637 0.1285

Moon 94916-12-10 23:02 G 36388761.37 36388761.46 36388761.56 0.2643 0.1259 *

Mars 94917-03-09 15:36 G 36388850.06 36388850.15 36388850.24 0.1581 0.0970

Jupiter 94917-07-17 19:41 G 36388980.22 36388980.32 36388980.42 0.0512 0.0429

Moon 94920-06-13 21:36 G 36390042.32 36390042.40 36390042.48 0.2692 0.2341

Earth 94920-06-13 23:02 G 36390042.36 36390042.46 36390042.56 0.2696 0.2093 *

Jupiter 94923-03-13 20:09 G 36391045.27 36391045.34 36391045.41 0.0514 0.0429

Jupiter 94923-06-11 00:00 G 36391134.39 36391134.50 36391134.62 0.0512 0.0230

Saturn 94924-08-24 00:43 G 36391574.46 36391574.53 36391574.59 0.0276 0.0237

Mars 94924-08-25 02:24 G 36391575.51 36391575.60 36391575.70 0.1586 0.0851

Saturn 94924-11-20 11:02 G 36391662.85 36391662.96 36391663.08 0.0275 0.0109

Saturn 94925-02-16 21:36 G 36391751.27 36391751.40 36391751.53 0.0274 0.0018

Saturn 94925-05-16 07:55 G 36391839.72 36391839.83 36391839.94 0.0273 0.0144

Saturn 94925-08-12 18:14 G 36391928.25 36391928.26 36391928.29 0.0272 0.0269

Mars 94926-07-31 03:21 G 36392280.53 36392280.64 36392280.75 0.1582 0.0612

Venus 94927-07-13 12:00 G 36392627.93 36392628.00 36392628.08 0.3627 0.2331

Jupiter 94929-08-04 04:48 G 36393380.56 36393380.70 36393380.85 0.0513 0.0313

Earth 94929-12-13 16:05 G 36393512.06 36393512.17 36393512.28 0.2636 0.0156

Moon 94929-12-13 16:48 G 36393512.09 36393512.20 36393512.31 0.2639 0.0191 *

Mars 94931-04-17 00:43 G 36394001.39 36394001.53 36394001.68 0.1957 0.0931

Venus 94933-01-26 02:53 G 36394651.52 36394651.62 36394651.72 0.3625 0.0421

Moon 94933-06-17 05:02 G 36394793.57 36394793.71 36394793.86 0.2699 0.1118

Earth 94933-06-17 06:57 G 36394793.65 36394793.79 36394793.93 0.2697 0.1262 *

Mars 94934-01-15 14:09 G 36395006.02 36395006.09 36395006.17 0.1587 0.1208

Jupiter 94935-03-30 04:48 G 36395444.58 36395444.70 36395444.83 0.0513 0.0067

Venus 94935-11-04 20:09 G 36395664.18 36395664.34 36395664.49 0.3748 0.1298

Mars 94935-12-21 15:07 G 36395711.01 36395711.13 36395711.24 0.1582 0.0253

Venus 94938-08-11 17:31 G 36396675.14 36396675.23 36396675.32 0.3624 0.1506

Mars 94940-09-05 16:33 G 36397431.03 36397431.19 36397431.36 0.1956 0.0447

Saturn 94941-02-26 11:45 G 36397604.82 36397604.99 36397605.17 0.0287 0.0106

Jupiter 94941-05-23 00:57 G 36397690.36 36397690.54 36397690.73 0.0513 0.0063

Saturn 94941-05-26 12:57 G 36397693.86 36397694.04 36397694.21 0.0288 0.0110

Earth 94942-12-16 09:36 G 36398262.81 36398262.90 36398262.99 0.2635 0.1551

Moon 94942-12-16 10:19 G 36398262.85 36398262.93 36398263.01 0.2632 0.1703 *

Mars 94943-06-08 02:09 G 36398436.57 36398436.59 36398436.61 0.1589 0.1558

Venus 94944-02-25 08:24 G 36398698.82 36398698.85 36398698.88 0.3622 0.3424

Mars 94945-05-13 02:53 G 36399141.50 36399141.62 36399141.73 0.1583 0.0121

Jupiter 94947-01-16 08:53 G 36399754.75 36399754.87 36399754.99 0.0513 0.0111

Mars 94947-04-18 04:05 G 36399846.61 36399846.67 36399846.72 0.1581 0.1370

Moon 94949-12-09 10:05 G 36400812.88 36400812.92 36400812.95 0.2643 0.2486

Earth 94949-12-09 10:19 G 36400812.88 36400812.93 36400812.97 0.2637 0.2400 *

Mars 94950-01-26 07:41 G 36400860.77 36400860.82 36400860.86 0.1953 0.1869

Pluto 94950-09-02 05:17 G 36401079.64 36401079.72 36401079.80 0.0083 0.0067

Pluto 94950-11-29 06:29 G 36401167.66 36401167.77 36401167.89 0.0083 0.0047

Pluto 94951-02-25 07:41 G 36401255.70 36401255.82 36401255.96 0.0083 0.0027

Pluto 94951-05-24 09:07 G 36401343.74 36401343.88 36401344.02 0.0083 0.0007

Pluto 94951-08-20 10:19 G 36401431.80 36401431.93 36401432.07 0.0083 0.0013

Uranus 94951-09-30 05:02 G 36401472.61 36401472.71 36401472.83 0.0136 0.0112

Pluto 94951-11-16 11:31 G 36401519.86 36401519.98 36401520.12 0.0083 0.0033

Uranus 94951-12-27 12:43 G 36401560.88 36401561.03 36401561.19 0.0136 0.0084

Pluto 94952-02-12 12:57 G 36401607.94 36401608.04 36401608.15 0.0083 0.0052

Uranus 94952-03-24 20:24 G 36401649.17 36401649.35 36401649.53 0.0136 0.0056

Pluto 94952-05-10 13:55 G 36401696.03 36401696.08 36401696.16 0.0083 0.0072

Uranus 94952-06-21 03:50 G 36401737.47 36401737.66 36401737.85 0.0136 0.0028

Uranus 94952-09-17 11:31 G 36401825.78 36401825.98 36401826.17 0.0135 0.0003

Uranus 94952-12-14 18:43 G 36401914.10 36401914.28 36401914.48 0.0135 0.0027

Jupiter 94953-03-10 21:21 G 36402000.22 36402000.39 36402000.57 0.0513 0.0181

Uranus 94953-03-13 02:09 G 36402002.42 36402002.59 36402002.78 0.0135 0.0055

Uranus 94953-06-09 09:36 G 36402090.76 36402090.90 36402091.06 0.0135 0.0082

Uranus 94953-09-05 17:17 G 36402179.10 36402179.22 36402179.33 0.0135 0.0109

Saturn 94954-01-11 04:05 G 36402306.64 36402306.67 36402306.71 0.0277 0.0265

Saturn 94954-04-09 14:38 G 36402395.00 36402395.11 36402395.23 0.0276 0.0137

Saturn 94954-07-07 01:12 G 36402483.42 36402483.55 36402483.68 0.0275 0.0010

Saturn 94954-10-03 11:31 G 36402571.86 36402571.98 36402572.10 0.0274 0.0117

Mars 94954-10-03 14:38 G 36402572.00 36402572.11 36402572.22 0.1584 0.0461 *

Saturn 94954-12-30 21:50 G 36402660.36 36402660.41 36402660.47 0.0273 0.0242

Mars 94956-09-07 15:36 G 36403277.06 36403277.15 36403277.24 0.1581 0.1006

Jupiter 94958-11-04 13:26 G 36404064.95 36404065.06 36404065.16 0.0513 0.0280

Jupiter 94959-02-01 17:17 G 36404154.13 36404154.22 36404154.30 0.0512 0.0377

Earth 94962-12-12 03:36 G 36405563.55 36405563.65 36405563.75 0.2636 0.1003

Moon 94962-12-12 03:50 G 36405563.56 36405563.66 36405563.76 0.2643 0.0927 *

Mars 94964-02-24 02:24 G 36406002.50 36406002.60 36406002.70 0.1586 0.0818

Jupiter 94964-12-27 17:02 G 36406310.12 36406310.21 36406310.31 0.0512 0.0438

Mars 94966-01-29 03:21 G 36406707.53 36406707.64 36406707.75 0.1582 0.0648

Moon 94966-06-15 04:05 G 36406844.55 36406844.67 36406844.80 0.2694 0.1687

Earth 94966-06-15 05:45 G 36406844.61 36406844.74 36406844.87 0.2696 0.1469 *

Saturn 94970-07-16 11:31 G 36408336.82 36408336.98 36408337.14 0.0287 0.0157

Jupiter 94970-08-23 18:00 G 36408375.19 36408375.25 36408375.31 0.0514 0.0447

Saturn 94970-10-13 12:43 G 36408425.84 36408426.03 36408426.21 0.0289 0.0060

Mars 94970-10-16 01:55 G 36408428.44 36408428.58 36408428.72 0.1958 0.1037

Jupiter 94970-11-20 21:50 G 36408464.29 36408464.41 36408464.52 0.0512 0.0211

Saturn 94971-01-10 13:41 G 36408515.02 36408515.07 36408515.12 0.0290 0.0277

Mars 94973-07-16 14:24 G 36409433.02 36409433.10 36409433.17 0.1587 0.1171

Mars 94975-06-21 15:07 G 36410138.01 36410138.13 36410138.24 0.1582 0.0291

Earth 94975-12-14 20:53 G 36410314.27 36410314.37 36410314.48 0.2635 0.0423

Moon 94975-12-14 21:36 G 36410314.29 36410314.40 36410314.51 0.2637 0.0515 *

Jupiter 94977-01-14 02:53 G 36410710.47 36410710.62 36410710.76 0.0513 0.0316

Venus 94978-08-03 18:29 G 36411277.25 36411277.27 36411277.29 0.3628 0.3560

Moon 94979-06-18 12:00 G 36411595.87 36411596.00 36411596.12 0.2699 0.1560

Earth 94979-06-18 13:41 G 36411595.96 36411596.07 36411596.18 0.2698 0.1883 *

Mars 94980-03-06 17:31 G 36411858.06 36411858.23 36411858.39 0.1956 0.0358

Jupiter 94982-09-09 02:53 G 36412774.49 36412774.62 36412774.74 0.0513 0.0056

Mars 94982-12-07 02:09 G 36412863.56 36412863.59 36412863.62 0.1589 0.1525

Saturn 94983-08-27 18:00 G 36413127.15 36413127.25 36413127.36 0.0276 0.0165

Saturn 94983-11-24 04:33 G 36413215.56 36413215.69 36413215.82 0.0275 0.0037

Venus 94984-02-17 09:21 G 36413300.80 36413300.89 36413300.98 0.3626 0.1641

Saturn 94984-02-20 14:53 G 36413304.00 36413304.12 36413304.25 0.0274 0.0089

Saturn 94984-05-19 01:12 G 36413392.48 36413392.55 36413392.64 0.0272 0.0214

Mars 94984-11-11 02:53 G 36413568.50 36413568.62 36413568.74 0.1583 0.0074

Neptune 94984-12-26 07:12 G 36413613.74 36413613.80 36413613.87 0.0090 0.0084

Neptune 94985-03-24 11:02 G 36413701.85 36413701.96 36413702.07 0.0090 0.0073

Neptune 94985-06-20 14:38 G 36413789.98 36413790.11 36413790.26 0.0090 0.0062

Neptune 94985-09-16 18:29 G 36413878.11 36413878.27 36413878.43 0.0090 0.0051

Neptune 94985-12-13 22:05 G 36413966.25 36413966.42 36413966.60 0.0090 0.0040

Neptune 94986-03-12 01:55 G 36414054.40 36414054.58 36414054.77 0.0090 0.0029

Neptune 94986-06-08 05:45 G 36414142.55 36414142.74 36414142.93 0.0090 0.0018

Neptune 94986-09-04 09:21 G 36414230.70 36414230.89 36414231.09 0.0090 0.0007

Mars 94986-10-17 04:05 G 36414273.61 36414273.67 36414273.72 0.1581 0.1409

Neptune 94986-12-01 13:12 G 36414318.85 36414319.05 36414319.24 0.0090 0.0004

Neptune 94987-02-27 16:33 G 36414407.01 36414407.19 36414407.39 0.0090 0.0016

Neptune 94987-05-26 20:09 G 36414495.17 36414495.34 36414495.54 0.0090 0.0027

Neptune 94987-08-23 00:14 G 36414583.33 36414583.51 36414583.69 0.0090 0.0037

Neptune 94987-11-19 03:50 G 36414671.50 36414671.66 36414671.83 0.0090 0.0048

Neptune 94988-02-15 07:26 G 36414759.67 36414759.81 36414759.96 0.0090 0.0059

Neptune 94988-05-13 11:02 G 36414847.85 36414847.96 36414848.09 0.0090 0.0070

Neptune 94988-08-09 14:38 G 36414936.04 36414936.11 36414936.20 0.0090 0.0081

Jupiter 94988-11-01 21:36 G 36415020.22 36415020.40 36415020.59 0.0513 0.0046

Earth 94988-12-16 14:24 G 36415065.02 36415065.10 36415065.18 0.2635 0.1842

Moon 94988-12-16 15:07 G 36415065.05 36415065.13 36415065.20 0.2632 0.1899 *

Mars 94989-07-27 08:53 G 36415287.80 36415287.87 36415287.94 0.1954 0.1764

Venus 94989-09-02 00:00 G 36415324.40 36415324.50 36415324.60 0.3625 0.0275

Venus 94992-06-10 23:45 G 36416337.34 36416337.49 36416337.63 0.3749 0.1637

Uranus 94994-03-31 23:02 G 36416996.42 36416996.46 36416996.52 0.0142 0.0130

Mars 94994-04-03 14:38 G 36416999.00 36416999.11 36416999.22 0.1584 0.0428

Uranus 94994-06-28 02:38 G 36417084.53 36417084.61 36417084.70 0.0142 0.0109

Jupiter 94994-06-28 07:26 G 36417084.69 36417084.81 36417084.94 0.0513 0.0110 *

Uranus 94994-09-24 06:00 G 36417172.66 36417172.75 36417172.86 0.0142 0.0088

Uranus 94994-12-21 09:36 G 36417260.79 36417260.90 36417261.02 0.0142 0.0066

Venus 94995-03-18 14:53 G 36417348.04 36417348.12 36417348.20 0.3623 0.2193

Uranus 94995-03-19 12:57 G 36417348.92 36417349.04 36417349.17 0.0142 0.0045

Uranus 94995-06-15 16:33 G 36417437.06 36417437.19 36417437.32 0.0142 0.0023

Uranus 94995-09-11 20:09 G 36417525.20 36417525.34 36417525.47 0.0143 0.0004

Uranus 94995-12-08 23:31 G 36417613.35 36417613.48 36417613.61 0.0143 0.0021

Moon 94995-12-10 14:53 G 36417615.06 36417615.12 36417615.19 0.2644 0.2086

Earth 94995-12-10 15:07 G 36417615.06 36417615.13 36417615.19 0.2637 0.2125 *

Uranus 94996-03-06 03:07 G 36417701.50 36417701.63 36417701.75 0.0143 0.0042

Mars 94996-03-08 15:36 G 36417704.06 36417704.15 36417704.24 0.1581 0.1046

Uranus 94996-06-02 06:29 G 36417789.66 36417789.77 36417789.89 0.0143 0.0064

Uranus 94996-08-29 10:05 G 36417877.82 36417877.92 36417878.03 0.0143 0.0086

Uranus 94996-11-25 13:41 G 36417965.98 36417966.07 36417966.15 0.0143 0.0108

Uranus 94997-02-21 17:02 G 36418054.17 36418054.21 36418054.27 0.0143 0.0130

Saturn 94999-12-03 10:19 G 36419068.81 36419068.93 36419069.07 0.0287 0.0209

Saturn 95000-03-02 11:45 G 36419157.80 36419157.99 36419158.18 0.0288 0.0008

Saturn 95000-05-30 12:43 G 36419246.92 36419247.03 36419247.15 0.0289 0.0225

Jupiter 95000-08-21 17:45 G 36419330.07 36419330.24 36419330.41 0.0512 0.0205

96TH MILLENNIUM CE

This is a list of transits of Mercury in the 96th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Mars 95003-08-26 02:24 G 36420429.50 36420429.60 36420429.70 0.1586 0.0783

Mars 95005-07-31 03:21 G 36421134.53 36421134.64 36421134.74 0.1581 0.0683

Jupiter 95006-04-17 11:45 G 36421394.88 36421394.99 36421395.09 0.0513 0.0286

Jupiter 95006-07-15 15:21 G 36421484.06 36421484.14 36421484.23 0.0512 0.0371

Earth 95008-12-13 08:24 G 36422365.74 36422365.85 36422365.95 0.2636 0.0719

Moon 95008-12-13 08:38 G 36422365.76 36422365.86 36422365.97 0.2642 0.0704 *

Mars 95010-04-17 02:38 G 36422855.47 36422855.61 36422855.74 0.1957 0.1112

Jupiter 95012-06-09 14:09 G 36423640.01 36423640.09 36423640.19 0.0512 0.0447

Moon 95012-06-16 10:48 G 36423646.81 36423646.95 36423647.10 0.2696 0.1031

Earth 95012-06-16 12:29 G 36423646.87 36423647.02 36423647.17 0.2696 0.0833 *

Saturn 95013-01-14 21:36 G 36423859.31 36423859.40 36423859.49 0.0276 0.0194

Mars 95013-01-15 14:09 G 36423860.01 36423860.09 36423860.17 0.1587 0.1138

Saturn 95013-04-13 07:55 G 36423947.71 36423947.83 36423947.96 0.0275 0.0066

Saturn 95013-07-10 18:29 G 36424036.14 36424036.27 36424036.39 0.0274 0.0061

Saturn 95013-10-07 04:48 G 36424124.61 36424124.70 36424124.79 0.0273 0.0186

Mars 95014-12-21 15:07 G 36424565.01 36424565.13 36424565.24 0.1582 0.0327

Jupiter 95018-02-03 16:05 G 36425705.12 36425705.17 36425705.23 0.0514 0.0453

Jupiter 95018-05-03 19:55 G 36425794.22 36425794.33 36425794.45 0.0512 0.0205

Mars 95019-09-06 18:14 G 36426285.09 36426285.26 36426285.42 0.1956 0.0273

Earth 95021-12-16 01:41 G 36427116.47 36427116.57 36427116.68 0.2635 0.0708

Moon 95021-12-16 02:24 G 36427116.50 36427116.60 36427116.71 0.2635 0.0835 *

Mars 95022-06-08 02:09 G 36427290.55 36427290.59 36427290.63 0.1589 0.1492

Mars 95024-05-13 02:38 G 36427995.50 36427995.61 36427995.73 0.1583 0.0073

Jupiter 95024-06-27 00:29 G 36428040.37 36428040.52 36428040.67 0.0513 0.0313

Moon 95025-06-19 18:43 G 36428398.20 36428398.28 36428398.35 0.2700 0.2333

Earth 95025-06-19 20:24 G 36428398.29 36428398.35 36428398.40 0.2698 0.2500 *

Mars 95026-04-18 03:50 G 36428700.62 36428700.66 36428700.71 0.1581 0.1447

Mars 95029-01-26 09:50 G 36429714.83 36429714.91 36429715.00 0.1954 0.1665

Saturn 95029-04-22 09:36 G 36429800.83 36429800.90 36429800.97 0.0287 0.0264

Saturn 95029-07-20 10:48 G 36429889.76 36429889.95 36429890.13 0.0288 0.0049

Saturn 95029-10-17 11:45 G 36429978.84 36429978.99 36429979.15 0.0289 0.0169

Jupiter 95030-02-20 00:29 G 36430104.40 36430104.52 36430104.65 0.0513 0.0043

Mars 95033-10-03 14:38 G 36431426.00 36431426.11 36431426.22 0.1584 0.0391

Earth 95034-12-18 19:12 G 36431867.24 36431867.30 36431867.36 0.2634 0.2132

Moon 95034-12-18 19:41 G 36431867.27 36431867.32 36431867.38 0.2631 0.2244 *

Venus 95035-03-11 15:36 G 36431950.09 36431950.15 36431950.21 0.3628 0.2870

Uranus 95035-07-25 03:50 G 36432085.65 36432085.66 36432085.69 0.0136 0.0135

Mars 95035-09-08 15:36 G 36432131.06 36432131.15 36432131.23 0.1581 0.1082

Uranus 95035-10-21 11:31 G 36432173.87 36432173.98 36432174.10 0.0136 0.0107

Uranus 95036-01-17 19:12 G 36432262.14 36432262.30 36432262.46 0.0136 0.0079

Jupiter 95036-04-14 19:55 G 36432350.15 36432350.33 36432350.52 0.0513 0.0056

Uranus 95036-04-15 02:38 G 36432350.44 36432350.61 36432350.80 0.0136 0.0051 *

Uranus 95036-07-12 10:19 G 36432438.74 36432438.93 36432439.12 0.0136 0.0023

Uranus 95036-10-08 17:45 G 36432527.05 36432527.24 36432527.44 0.0135 0.0005

Uranus 95037-01-05 01:12 G 36432615.37 36432615.55 36432615.74 0.0135 0.0032

Uranus 95037-04-03 08:38 G 36432703.69 36432703.86 36432704.04 0.0135 0.0059

Uranus 95037-06-30 16:05 G 36432792.03 36432792.17 36432792.32 0.0135 0.0086

Uranus 95037-09-26 23:31 G 36432880.38 36432880.48 36432880.59 0.0135 0.0114

Venus 95040-09-24 06:29 G 36433973.67 36433973.77 36433973.87 0.3626 0.0955

Jupiter 95041-12-09 05:31 G 36434414.61 36434414.73 36434414.85 0.0513 0.0120

Moon 95041-12-11 19:55 G 36434417.25 36434417.33 36434417.40 0.2644 0.1901

Earth 95041-12-11 19:41 G 36434417.25 36434417.32 36434417.40 0.2637 0.1841 *

Saturn 95042-06-04 00:43 G 36434591.46 36434591.53 36434591.60 0.0276 0.0224

Saturn 95042-08-31 11:02 G 36434679.84 36434679.96 36434680.09 0.0275 0.0097

Saturn 95042-11-27 21:36 G 36434768.27 36434768.40 36434768.53 0.0274 0.0030

Mars 95043-02-24 02:24 G 36434856.50 36434856.60 36434856.70 0.1586 0.0747

Saturn 95043-02-24 07:55 G 36434856.72 36434856.83 36434856.94 0.0273 0.0155

Mars 95045-01-29 03:21 G 36435561.53 36435561.64 36435561.74 0.1581 0.0721

Venus 95046-04-09 21:21 G 36435997.29 36435997.39 36435997.48 0.3624 0.0972

Jupiter 95048-02-01 15:07 G 36436659.96 36436660.13 36436660.30 0.0512 0.0214

Mars 95049-10-16 03:36 G 36437282.52 36437282.65 36437282.77 0.1958 0.1211

Venus 95051-10-24 12:00 G 36438020.94 36438021.00 36438021.06 0.3623 0.2878

Mars 95052-07-16 14:09 G 36438287.01 36438287.09 36438287.17 0.1587 0.1105

Jupiter 95053-09-27 10:19 G 36438724.83 36438724.93 36438725.04 0.0514 0.0280

Jupiter 95053-12-25 14:24 G 36438814.01 36438814.10 36438814.18 0.0512 0.0378

Mars 95054-06-21 14:53 G 36438992.01 36438992.12 36438992.24 0.1582 0.0364

Earth 95054-12-14 13:12 G 36439167.94 36439168.05 36439168.16 0.2636 0.0438

Moon 95054-12-14 13:41 G 36439167.96 36439168.07 36439168.17 0.2641 0.0329 *

Moon 95058-06-17 17:31 G 36440449.08 36440449.23 36440449.39 0.2696 0.0528

Earth 95058-06-17 19:26 G 36440449.15 36440449.31 36440449.46 0.2697 0.0211 *

Saturn 95058-12-07 08:53 G 36440621.70 36440621.87 36440622.05 0.0287 0.0109

Saturn 95059-03-06 09:50 G 36440710.75 36440710.91 36440711.09 0.0289 0.0109

Mars 95059-03-07 19:12 G 36440712.14 36440712.30 36440712.47 0.1956 0.0176

Jupiter 95059-11-20 11:17 G 36440969.89 36440969.97 36440970.05 0.0512 0.0461

Mars 95061-12-07 02:09 G 36441717.54 36441717.59 36441717.63 0.1589 0.1458

Mars 95063-11-12 02:38 G 36442422.50 36442422.61 36442422.73 0.1583 0.0047

Jupiter 95065-07-16 14:38 G 36443035.05 36443035.11 36443035.16 0.0514 0.0455

Neptune 95065-10-13 11:45 G 36443123.99 36443123.99 36443124.02 0.0088 0.0087

Jupiter 95065-10-13 18:29 G 36443124.15 36443124.27 36443124.38 0.0512 0.0202

Mars 95065-10-17 03:50 G 36443127.63 36443127.66 36443127.70 0.1581 0.1483

Neptune 95066-01-09 13:12 G 36443212.01 36443212.05 36443212.11 0.0088 0.0080

Neptune 95066-04-07 14:24 G 36443300.04 36443300.10 36443300.18 0.0088 0.0073

Neptune 95066-07-04 15:50 G 36443388.08 36443388.16 36443388.25 0.0088 0.0066

Neptune 95066-09-30 17:02 G 36443476.12 36443476.21 36443476.31 0.0088 0.0059

Neptune 95066-12-27 18:14 G 36443564.16 36443564.26 36443564.38 0.0088 0.0052

Neptune 95067-03-25 19:41 G 36443652.21 36443652.32 36443652.44 0.0088 0.0045

Neptune 95067-06-21 20:53 G 36443740.26 36443740.37 36443740.49 0.0088 0.0038

Neptune 95067-09-17 22:05 G 36443828.30 36443828.42 36443828.55 0.0088 0.0031

Neptune 95067-12-14 23:31 G 36443916.35 36443916.48 36443916.61 0.0088 0.0024

Earth 95067-12-17 06:29 G 36443918.67 36443918.77 36443918.87 0.2635 0.0992

Moon 95067-12-17 07:12 G 36443918.70 36443918.80 36443918.90 0.2635 0.1069 *

Neptune 95068-03-12 00:43 G 36444004.40 36444004.53 36444004.66 0.0088 0.0017

Neptune 95068-06-08 02:09 G 36444092.45 36444092.59 36444092.72 0.0088 0.0010

Mars 95068-07-27 10:19 G 36444141.84 36444141.93 36444142.03 0.1954 0.1591

Neptune 95068-09-04 03:21 G 36444180.51 36444180.64 36444180.77 0.0088 0.0003

Neptune 95068-12-01 04:33 G 36444268.56 36444268.69 36444268.82 0.0088 0.0004

Neptune 95069-02-27 05:45 G 36444356.61 36444356.74 36444356.88 0.0088 0.0012

Neptune	95069-05-26 06:57 G	36444444.67	36444444.79	36444444.93	0.0088	0.0019
Neptune	95069-08-22 08:24 G	36444532.72	36444532.85	36444532.98	0.0088	0.0025
Neptune	95069-11-18 09:36 G	36444620.78	36444620.90	36444621.03	0.0088	0.0033
Neptune	95070-02-14 10:48 G	36444708.84	36444708.95	36444709.08	0.0088	0.0040
Neptune	95070-05-13 12:00 G	36444796.90	36444797.00	36444797.12	0.0088	0.0047
Neptune	95070-08-09 13:26 G	36444884.96	36444885.06	36444885.17	0.0088	0.0054
Neptune	95070-11-05 14:38 G	36444973.02	36444973.11	36444973.21	0.0088	0.0061
Neptune	95071-02-01 16:05 G	36445061.09	36445061.17	36445061.26	0.0088	0.0068
Neptune	95071-04-30 17:17 G	36445149.16	36445149.22	36445149.29	0.0088	0.0075
Neptune	95071-07-27 18:43 G	36445237.24	36445237.28	36445237.33	0.0088	0.0082
Saturn	95071-10-22 03:50 G	36445323.62	36445323.66	36445323.71	0.0277	0.0257
Jupiter	95071-12-07 22:05 G	36445370.28	36445370.42	36445370.57	0.0514	0.0314
Saturn	95072-01-18 14:24 G	36445411.98	36445412.10	36445412.21	0.0276	0.0129
Saturn	95072-04-16 00:43 G	36445500.40	36445500.53	36445500.66	0.0275	0.0005
Saturn	95072-07-13 11:17 G	36445588.85	36445588.97	36445589.08	0.0274	0.0125
Saturn	95072-10-09 21:21 G	36445677.35	36445677.39	36445677.45	0.0272	0.0250
Mars	95073-04-03 14:38 G	36445852.99	36445853.11	36445853.22	0.1584	0.0358
Mars	95075-03-09 15:36 G	36446558.07	36446558.15	36446558.23	0.1581	0.1117
Jupiter	95077-08-01 23:02 G	36447434.33	36447434.46	36447434.59	0.0513	0.0037
Uranus	95078-04-22 06:43 G	36447697.72	36447697.78	36447697.85	0.0142	0.0124
Uranus	95078-07-19 10:05 G	36447785.84	36447785.92	36447786.02	0.0142	0.0103
Uranus	95078-10-15 13:26 G	36447873.96	36447874.06	36447874.18	0.0142	0.0082
Uranus	95079-01-11 17:02 G	36447962.10	36447962.21	36447962.33	0.0142	0.0060
Uranus	95079-04-09 20:38 G	36448050.23	36448050.36	36448050.49	0.0142	0.0038
Uranus	95079-07-07 00:00 G	36448138.37	36448138.50	36448138.63	0.0142	0.0017
Uranus	95079-10-03 03:36 G	36448226.52	36448226.65	36448226.78	0.0143	0.0005
Uranus	95079-12-30 06:57 G	36448314.67	36448314.79	36448314.92	0.0143	0.0027
Uranus	95080-03-27 10:33 G	36448402.82	36448402.94	36448403.06	0.0143	0.0049
Uranus	95080-06-23 13:55 G	36448490.97	36448491.08	36448491.20	0.0143	0.0071
Uranus	95080-09-19 17:31 G	36448579.13	36448579.23	36448579.33	0.0143	0.0093

Uranus 95080-12-16 20:53 G 36448667.30 36448667.37 36448667.46 0.0143 0.0115

Earth 95080-12-19 00:00 G 36448669.46 36448669.50 36448669.54 0.2634 0.2425

Moon 95080-12-19 00:29 G 36448669.49 36448669.52 36448669.55 0.2629 0.2492 *

Uranus 95081-03-15 00:29 G 36448755.49 36448755.52 36448755.56 0.0143 0.0137

Mars 95082-08-25 02:24 G 36449283.49 36449283.60 36449283.70 0.1586 0.0714

Jupiter 95083-09-25 18:14 G 36449680.07 36449680.26 36449680.44 0.0513 0.0061

Mars 95084-07-30 03:21 G 36449988.53 36449988.64 36449988.74 0.1581 0.0758

Earth 95087-12-13 00:29 G 36451219.43 36451219.52 36451219.61 0.2637 0.1561

Moon 95087-12-13 00:43 G 36451219.44 36451219.53 36451219.61 0.2644 0.1495 *

Saturn 95088-04-25 06:43 G 36451353.64 36451353.78 36451353.94 0.0287 0.0174

Saturn 95088-07-23 08:09 G 36451442.65 36451442.84 36451443.02 0.0289 0.0044

Saturn 95088-10-20 09:07 G 36451531.81 36451531.88 36451531.96 0.0290 0.0262

Mars 95089-04-16 04:33 G 36451709.57 36451709.69 36451709.81 0.1958 0.1307

Jupiter 95089-05-21 03:36 G 36451744.53 36451744.65 36451744.78 0.0513 0.0129

Venus 95091-10-16 12:57 G 36452622.96 36452623.04 36452623.12 0.3627 0.2177

Mars 95092-01-15 14:09 G 36452714.01 36452714.09 36452714.18 0.1587 0.1068

Mars 95093-12-20 14:53 G 36453419.01 36453419.12 36453419.24 0.1582 0.0400

Jupiter 95095-07-14 13:55 G 36453989.91 36453990.08 36453990.25 0.0512 0.0196

Venus 95097-05-01 03:36 G 36454646.55 36454646.65 36454646.76 0.3625 0.0315

Mars 95098-09-05 20:09 G 36455139.18 36455139.34 36455139.51 0.1956 0.0081

Venus 95100-02-07 16:05 G 36455659.03 36455659.17 36455659.31 0.3748 0.1816

Earth 95100-12-15 18:00 G 36455970.14 36455970.25 36455970.36 0.2636 0.0178

Moon 95100-12-15 18:29 G 36455970.16 36455970.27 36455970.38 0.2639 0.0119 *

Jupiter 95101-03-10 08:38 G 36456054.76 36456054.86 36456054.96 0.0514 0.0287

Jupiter 95101-06-07 12:29 G 36456143.94 36456144.02 36456144.11 0.0512 0.0372

Saturn 95101-06-07 17:17 G 36456144.12 36456144.22 36456144.32 0.0276 0.0163

Mars 95101-06-08 02:09 G 36456144.54 36456144.59 36456144.64 0.1589 0.1425

Saturn 95101-09-04 03:36 G 36456232.52 36456232.65 36456232.78 0.0274 0.0036

Saturn 95101-12-01 13:55 G 36456320.96 36456321.08 36456321.21 0.0273 0.0092

Saturn 95102-02-28 00:29 G 36456409.44 36456409.52 36456409.60 0.0272 0.0216

Venus 95102-11-15 18:29 G 36456670.18 36456670.27 36456670.36 0.3624 0.1656

Pluto 95103-01-12 10:19 G 36456727.91 36456727.93 36456727.99 0.0061 0.0059

Pluto 95103-04-10 11:17 G 36456815.89 36456815.97 36456816.10 0.0061 0.0049

Mars 95103-05-14 02:53 G 36456849.50 36456849.62 36456849.73 0.1583 0.0074

Pluto 95103-07-07 12:57 G 36456903.90 36456904.04 36456904.19 0.0061 0.0038

Pluto 95103-10-03 13:55 G 36456991.93 36456992.08 36456992.26 0.0061 0.0028

Pluto 95103-12-30 15:21 G 36457079.97 36457080.14 36457080.32 0.0061 0.0018

Pluto 95104-03-27 16:33 G 36457168.01 36457168.19 36457168.38 0.0061 0.0007

Moon 95104-06-19 00:14 G 36457251.35 36457251.51 36457251.67 0.2696 0.0253

Earth 95104-06-19 01:55 G 36457251.43 36457251.58 36457251.74 0.2697 0.0430 *

Pluto 95104-06-23 17:45 G 36457256.06 36457256.24 36457256.43 0.0061 0.0003

Pluto 95104-09-19 18:43 G 36457344.11 36457344.28 36457344.47 0.0061 0.0014

Pluto 95104-12-16 19:55 G 36457432.17 36457432.33 36457432.51 0.0061 0.0025

Pluto 95105-03-14 20:53 G 36457520.24 36457520.37 36457520.54 0.0062 0.0036

Mars 95105-04-18 03:50 G 36457554.64 36457554.66 36457554.69 0.1581 0.1522

Pluto 95105-06-10 22:19 G 36457608.32 36457608.43 36457608.56 0.0062 0.0046

Pluto 95105-09-06 23:17 G 36457696.42 36457696.47 36457696.56 0.0062 0.0057

Jupiter 95107-05-03 08:53 G 36458299.80 36458299.87 36458299.96 0.0512 0.0460

Mars 95108-01-27 11:31 G 36458568.87 36458568.98 36458569.08 0.1954 0.1492

Venus 95108-05-31 09:21 G 36458693.88 36458693.89 36458693.90 0.3622 0.3568

Mars 95112-10-03 14:38 G 36460279.99 36460280.11 36460280.22 0.1584 0.0327

Jupiter 95112-12-27 13:26 G 36460365.00 36460365.06 36460365.13 0.0514 0.0446

Jupiter 95113-03-26 17:31 G 36460454.11 36460454.23 36460454.34 0.0513 0.0214

Earth 95113-12-18 11:17 G 36460720.88 36460720.97 36460721.07 0.2635 0.1278

Moon 95113-12-18 12:00 G 36460720.91 36460721.00 36460721.09 0.2635 0.1430 *

Mars 95114-09-08 15:36 G 36460985.07 36460985.15 36460985.23 0.1581 0.1158

Saturn 95117-09-13 04:05 G 36462085.58 36462085.67 36462085.78 0.0287 0.0240

Saturn 95117-12-11 05:31 G 36462174.54 36462174.73 36462174.92 0.0288 0.0024

Saturn 95118-03-10 06:29 G 36462263.64 36462263.77 36462263.91 0.0289 0.0194

Jupiter 95119-05-20 19:41 G 36462700.18 36462700.32 36462700.47 0.0513 0.0308

Uranus 95119-08-15 10:19 G 36462786.89 36462786.93 36462787.00 0.0136 0.0130

Uranus 95119-11-11 18:00 G 36462875.13 36462875.25 36462875.39 0.0136 0.0102

Uranus 95120-02-08 01:41 G 36462963.41 36462963.57 36462963.74 0.0136 0.0074

Uranus 95120-05-06 09:21 G 36463051.71 36463051.89 36463052.07 0.0135 0.0046

Uranus 95120-08-02 16:48 G 36463140.01 36463140.20 36463140.40 0.0135 0.0018

Uranus 95120-10-30 00:29 G 36463228.32 36463228.52 36463228.71 0.0135 0.0010

Uranus 95121-01-26 07:41 G 36463316.64 36463316.82 36463317.01 0.0135 0.0037

Uranus 95121-04-24 15:07 G 36463404.97 36463405.13 36463405.31 0.0135 0.0064

Uranus 95121-07-21 22:33 G 36463493.31 36463493.44 36463493.59 0.0135 0.0092

Uranus 95121-10-18 06:00 G 36463581.67 36463581.75 36463581.85 0.0135 0.0119

Mars 95122-02-24 02:24 G 36463710.49 36463710.60 36463710.70 0.1586 0.0682

Mars 95124-01-30 03:07 G 36464415.53 36464415.63 36464415.74 0.1581 0.0794

Jupiter 95125-01-12 21:36 G 36464764.28 36464764.40 36464764.53 0.0513 0.0043

Mars 95128-10-16 05:17 G 36466136.60 36466136.72 36466136.83 0.1958 0.1390

Saturn 95130-10-25 19:55 G 36466876.25 36466876.33 36466876.42 0.0277 0.0200

Saturn 95131-01-22 06:29 G 36466964.64 36466964.77 36466964.90 0.0275 0.0072

Jupiter 95131-03-08 16:19 G 36467010.00 36467010.18 36467010.37 0.0513 0.0068

Saturn 95131-04-20 16:48 G 36467053.08 36467053.20 36467053.33 0.0274 0.0056

Mars 95131-07-17 14:09 G 36467141.00 36467141.09 36467141.18 0.1587 0.1035

Saturn 95131-07-18 03:07 G 36467141.54 36467141.63 36467141.73 0.0273 0.0181

Mars 95133-06-21 14:53 G 36467846.01 36467846.12 36467846.24 0.1582 0.0435

Moon 95133-12-14 05:31 G 36468021.63 36468021.73 36468021.82 0.2643 0.1307

Earth 95133-12-14 05:17 G 36468021.63 36468021.72 36468021.82 0.2637 0.1275 *

Jupiter 95136-11-01 02:24 G 36469074.48 36469074.60 36469074.72 0.0513 0.0123

Moon 95137-06-16 23:02 G 36469302.40 36469302.46 36469302.52 0.2693 0.2459

Earth 95137-06-17 00:43 G 36469302.46 36469302.53 36469302.61 0.2696 0.2336 *

Mars 95138-03-07 20:53 G 36469566.20 36469566.37 36469566.53 0.1957 0.0033

Mars 95140-12-07 01:55 G 36470571.53 36470571.58 36470571.64 0.1589 0.1392

Venus 95142-11-07 19:26 G 36471272.28 36471272.31 36471272.34 0.3628 0.3399

Mars 95142-11-12 02:38 G 36471276.50 36471276.61 36471276.73 0.1583 0.0081

Jupiter 95142-12-25 12:29 G 36471319.85 36471320.02 36471320.20 0.0512 0.0181

Mars 95144-10-17 03:50 G 36471981.65 36471981.66 36471981.68 0.1581 0.1560

Earth 95146-12-16 22:33 G 36472772.33 36472772.44 36472772.55 0.2636 0.0174

Moon 95146-12-16 23:17 G 36472772.36 36472772.47 36472772.58 0.2638 0.0303 *

Saturn 95147-04-30 02:38 G 36472906.43 36472906.61 36472906.79 0.0288 0.0096

Saturn 95147-07-28 03:36 G 36472995.48 36472995.65 36472995.83 0.0289 0.0122

Mars 95147-07-28 12:43 G 36472995.91 36472996.03 36472996.14 0.1954 0.1386

Venus 95148-05-23 10:05 G 36473295.83 36473295.92 36473296.02 0.3626 0.1492

Jupiter 95148-08-20 06:57 G 36473384.69 36473384.79 36473384.90 0.0514 0.0289

Jupiter 95148-11-17 10:48 G 36473473.87 36473473.95 36473474.04 0.0512 0.0369

Neptune 95149-06-28 02:24 G 36473696.59 36473696.60 36473696.62 0.0090 0.0089

Neptune 95149-09-24 06:00 G 36473784.67 36473784.75 36473784.85 0.0090 0.0078

Neptune 95149-12-21 09:50 G 36473872.79 36473872.91 36473873.04 0.0090 0.0067

Neptune 95150-03-19 13:41 G 36473960.92 36473961.07 36473961.22 0.0090 0.0056

Neptune 95150-06-15 17:17 G 36474049.06 36474049.22 36474049.40 0.0090 0.0045

Moon 95150-06-20 07:12 G 36474053.64 36474053.80 36474053.95 0.2697 0.0714

Earth 95150-06-20 08:53 G 36474053.72 36474053.87 36474054.01 0.2697 0.1051 *

Neptune 95150-09-11 21:07 G 36474137.20 36474137.38 36474137.56 0.0090 0.0034

Neptune 95150-12-09 00:57 G 36474225.35 36474225.54 36474225.73 0.0090 0.0023

Neptune 95151-03-07 04:33 G 36474313.50 36474313.69 36474313.89 0.0090 0.0012

Neptune 95151-06-03 08:24 G 36474401.65 36474401.85 36474402.04 0.0090 0.0001

Neptune 95151-08-30 12:00 G 36474489.81 36474490.00 36474490.20 0.0090 0.0010

Neptune 95151-11-26 15:50 G 36474577.97 36474578.16 36474578.35 0.0090 0.0021

Neptune 95152-02-22 19:26 G 36474666.13 36474666.31 36474666.49 0.0090 0.0032

Mars 95152-04-03 14:38 G 36474706.99 36474707.11 36474707.22 0.1584 0.0289

Neptune 95152-05-20 23:02 G 36474754.30 36474754.46 36474754.64 0.0090 0.0043

Neptune 95152-08-17 02:38 G 36474842.47 36474842.61 36474842.77 0.0090 0.0054

Neptune 95152-11-13 06:14 G 36474930.64 36474930.76 36474930.91 0.0090 0.0065

Neptune 95153-02-09 09:50 G 36475018.82 36475018.91 36475019.03 0.0090 0.0076

Neptune 95153-05-08 13:26 G 36475107.03 36475107.06 36475107.13 0.0090 0.0087

Venus 95153-12-07 00:57 G 36475319.44 36475319.54 36475319.64 0.3625 0.0431

Mars 95154-03-09 15:36 G 36475412.07 36475412.15 36475412.22 0.1581 0.1193

Jupiter 95154-10-13 08:09 G 36475629.75 36475629.84 36475629.95 0.0512 0.0435

Venus 95156-09-14 19:41 G 36476332.16 36476332.32 36476332.47 0.3749 0.1097

Venus 95159-06-22 15:50 G 36477343.08 36477343.16 36477343.23 0.3623 0.2346

Earth 95159-12-19 16:05 G 36477523.08 36477523.17 36477523.26 0.2635 0.1566

Moon 95159-12-19 16:48 G 36477523.11 36477523.20 36477523.28 0.2633 0.1612 *

Saturn 95160-03-13 22:33 G 36477608.38 36477608.44 36477608.50 0.0276 0.0238

Jupiter 95160-06-08 12:00 G 36477694.94 36477695.00 36477695.06 0.0514 0.0447

Saturn 95160-06-10 08:53 G 36477696.75 36477696.87 36477696.99 0.0275 0.0110

Jupiter 95160-09-05 15:50 G 36477784.05 36477784.16 36477784.28 0.0513 0.0212

Saturn 95160-09-06 19:26 G 36477785.18 36477785.31 36477785.44 0.0274 0.0018

Saturn 95160-12-04 05:45 G 36477873.63 36477873.74 36477873.85 0.0273 0.0143

Saturn 95161-03-02 16:05 G 36477962.15 36477962.17 36477962.19 0.0272 0.0267

Mars 95161-08-25 02:24 G 36478137.49 36478137.60 36478137.70 0.1585 0.0644

Uranus 95162-02-14 10:48 G 36478310.92 36478310.95 36478310.98 0.0142 0.0139

Uranus 95162-05-13 14:09 G 36478399.02 36478399.09 36478399.17 0.0142 0.0117

Uranus 95162-08-09 17:31 G 36478487.14 36478487.23 36478487.33 0.0142 0.0096

Uranus 95162-11-05 21:07 G 36478575.27 36478575.38 36478575.49 0.0142 0.0075

Uranus 95163-02-02 00:29 G 36478663.40 36478663.52 36478663.65 0.0142 0.0054

Uranus 95163-05-01 04:05 G 36478751.54 36478751.67 36478751.80 0.0143 0.0032

Uranus 95163-07-28 07:41 G 36478839.69 36478839.82 36478839.95 0.0143 0.0010

Mars 95163-07-31 03:21 G 36478842.54 36478842.64 36478842.74 0.1581 0.0833

Uranus 95163-10-24 11:02 G 36478927.83 36478927.96 36478928.09 0.0143 0.0012

Uranus 95164-01-20 14:38 G 36479015.98 36479016.11 36479016.24 0.0143 0.0034

Uranus 95164-04-17 18:00 G 36479104.13 36479104.25 36479104.38 0.0143 0.0055

Uranus 95164-07-14 21:36 G 36479192.29 36479192.40 36479192.51 0.0143 0.0077

Uranus 95164-10-11 01:12 G 36479280.45 36479280.55 36479280.64 0.0143 0.0099

Uranus 95165-01-07 04:33 G 36479368.63 36479368.69 36479368.76 0.0143 0.0121

Jupiter 95166-10-30 18:00 G 36480030.11 36480030.25 36480030.40 0.0513 0.0318

Moon 95166-12-12 16:33 G 36480073.15 36480073.19 36480073.23 0.2645 0.2432

Earth 95166-12-12 16:48 G 36480073.15 36480073.20 36480073.24 0.2638 0.2394 *

Mars 95168-04-16 06:00 G 36480563.64 36480563.75 36480563.86 0.1958 0.1480

Mars 95171-01-15 14:09 G 36481568.00 36481568.09 36481568.18 0.1587 0.1003

Jupiter 95172-06-24 20:53 G 36482094.24 36482094.37 36482094.49 0.0513 0.0055

Mars 95172-12-20 14:53 G 36482273.01 36482273.12 36482273.23 0.1582 0.0470

Saturn 95176-09-15 22:48 G 36483638.30 36483638.45 36483638.61 0.0287 0.0172

Saturn 95176-12-14 00:00 G 36483727.32 36483727.50 36483727.69 0.0288 0.0045

Saturn 95177-03-13 00:57 G 36483816.48 36483816.54 36483816.63 0.0289 0.0264

Mars 95177-09-05 22:05 G 36483993.25 36483993.42 36483993.58 0.1956 0.0113

Jupiter 95178-08-18 14:38 G 36484339.92 36484340.11 36484340.29 0.0513 0.0074

Earth 95179-12-15 10:05 G 36484823.82 36484823.92 36484824.02 0.2637 0.0990

Moon 95179-12-15 10:19 G 36484823.83 36484823.93 36484824.03 0.2642 0.0918 *

Mars 95180-06-07 01:55 G 36484998.53 36484998.58 36484998.64 0.1589 0.1357

Mars 95182-05-13 02:38 G 36485703.49 36485703.61 36485703.73 0.1583 0.0109

Moon 95183-06-18 06:00 G 36486104.64 36486104.75 36486104.85 0.2693 0.2032

Earth 95183-06-18 07:41 G 36486104.70 36486104.82 36486104.94 0.2696 0.1684 *

Jupiter 95184-04-13 01:12 G 36486404.43 36486404.55 36486404.67 0.0513 0.0115

Mars 95187-01-26 12:57 G 36487422.92 36487423.04 36487423.17 0.1954 0.1320

Saturn 95189-10-28 11:31 G 36488428.87 36488428.98 36488429.09 0.0276 0.0150

Saturn 95190-01-24 21:50 G 36488517.28 36488517.41 36488517.55 0.0275 0.0024

Saturn 95190-04-23 08:24 G 36488605.73 36488605.85 36488605.97 0.0274 0.0105

Jupiter 95190-06-06 11:02 G 36488649.79 36488649.96 36488650.14 0.0513 0.0168

Saturn 95190-07-20 18:43 G 36488694.21 36488694.28 36488694.35 0.0273 0.0230

Mars 95191-10-03 14:24 G 36489133.99 36489134.10 36489134.22 0.1584 0.0257

Earth 95192-12-17 03:21 G 36489574.53 36489574.64 36489574.75 0.2636 0.0435

Moon 95192-12-17 04:05 G 36489574.56 36489574.67 36489574.78 0.2638 0.0476 *

Mars 95193-09-07 15:36 G 36489839.07 36489839.15 36489839.22 0.1581 0.1231

Jupiter 95196-01-31 06:00 G 36490714.65 36490714.75 36490714.86 0.0513 0.0277

Jupiter 95196-04-29 09:50 G 36490803.83 36490803.91 36490803.99 0.0511 0.0378

Pluto 95196-05-03 20:24 G 36490808.28 36490808.35 36490808.43 0.0083 0.0070

Moon 95196-06-20 13:55 G 36490855.96 36490856.08 36490856.21 0.2699 0.1570

Earth 95196-06-20 15:36 G 36490856.03 36490856.15 36490856.27 0.2697 0.1678 *

Pluto 95196-07-30 21:50 G 36490896.30 36490896.41 36490896.52 0.0083 0.0050

Pluto 95196-10-26 23:02 G 36490984.34 36490984.46 36490984.59 0.0083 0.0030

Pluto 95197-01-23 00:29 G 36491072.38 36491072.52 36491072.66 0.0083 0.0010

Pluto 95197-04-21 01:41 G 36491160.43 36491160.57 36491160.71 0.0083 0.0010

Pluto 95197-07-18 02:53 G 36491248.50 36491248.62 36491248.75 0.0083 0.0030

Pluto 95197-10-14 04:19 G 36491336.57 36491336.68 36491336.79 0.0083 0.0049

Pluto 95198-01-10 05:17 G 36491424.66 36491424.72 36491424.81 0.0083 0.0069

Venus 95199-06-14 16:33 G 36491945.13 36491945.19 36491945.26 0.3628 0.2705

Mars 95201-02-23 02:09 G 36492564.49 36492564.59 36492564.70 0.1585 0.0612

Jupiter 95202-03-25 07:26 G 36492959.70 36492959.81 36492959.92 0.0512 0.0413

Mars 95203-01-29 03:07 G 36493269.54 36493269.63 36493269.73 0.1581 0.0870

Uranus 95203-09-04 17:45 G 36493488.16 36493488.24 36493488.32 0.0136 0.0122

Uranus 95203-12-02 00:57 G 36493576.42 36493576.54 36493576.69 0.0136 0.0095

Uranus 95204-02-28 08:38 G 36493664.70 36493664.86 36493665.04 0.0135 0.0067

Uranus 95204-05-26 16:19 G 36493753.00 36493753.18 36493753.37 0.0135 0.0039

Uranus 95204-08-23 00:00 G 36493841.30 36493841.50 36493841.69 0.0135 0.0011

Uranus 95204-11-19 07:26 G 36493929.62 36493929.81 36493930.00 0.0135 0.0016

Venus 95204-12-28 07:26 G 36493968.71 36493968.81 36493968.91 0.3626 0.0791

Uranus 95205-02-15 14:53 G 36494017.94 36494018.12 36494018.30 0.0135 0.0044

Uranus 95205-05-14 22:05 G 36494106.27 36494106.42 36494106.59 0.0135 0.0071

Uranus 95205-08-11 05:31 G 36494194.61 36494194.73 36494194.87 0.0135 0.0098

Uranus 95205-11-07 12:43 G 36494282.98 36494283.03 36494283.12 0.0135 0.0126

Earth 95205-12-19 20:53 G 36494325.29 36494325.37 36494325.45 0.2635 0.1854

Moon 95205-12-19 21:21 G 36494325.32 36494325.39 36494325.46 0.2631 0.2000 *

Saturn 95206-02-02 19:26 G 36494370.21 36494370.31 36494370.40 0.0287 0.0248

Saturn 95206-05-02 20:24 G 36494459.17 36494459.35 36494459.54 0.0288 0.0033

Saturn 95206-07-30 21:36 G 36494548.26 36494548.40 36494548.55 0.0289 0.0186

Mars 95207-10-16 07:12 G 36494990.71 36494990.80 36494990.89 0.1958 0.1588

Jupiter 95207-11-19 10:33 G 36495024.88 36495024.94 36495025.01 0.0514 0.0442

Jupiter 95208-02-16 14:38 G 36495113.99 36495114.11 36495114.22 0.0512 0.0216

Venus 95210-07-13 22:19 G 36495992.33 36495992.43 36495992.52 0.3625 0.1128

Mars 95210-07-16 14:09 G 36495995.00 36495995.09 36495995.18 0.1587 0.0964

Mars 95212-06-20 14:53 G 36496700.01 36496700.12 36496700.23 0.1582 0.0506

Moon 95212-12-12 21:21 G 36496875.33 36496875.39 36496875.45 0.2645 0.2151

Earth 95212-12-12 21:36 G 36496875.33 36496875.40 36496875.46 0.2638 0.2113 *

Jupiter 95214-04-11 17:45 G 36497360.11 36497360.24 36497360.38 0.0513 0.0350

Venus 95216-01-27 12:57 G 36498015.99 36498016.04 36498016.10 0.3623 0.3033

Mars 95217-03-06 22:48 G 36498420.28 36498420.45 36498420.61 0.1956 0.0195

Saturn 95219-03-17 13:41 G 36499160.98 36499161.07 36499161.16 0.0276 0.0193

Saturn 95219-06-14 00:00 G 36499249.38 36499249.50 36499249.63 0.0275 0.0065

Saturn 95219-09-10 10:33 G 36499337.81 36499337.94 36499338.07 0.0274 0.0062

Jupiter 95219-12-05 19:26 G 36499424.19 36499424.31 36499424.44 0.0513 0.0061

Mars 95219-12-07 01:55 G 36499425.52 36499425.58 36499425.64 0.1589 0.1323

Saturn 95219-12-07 20:53 G 36499426.28 36499426.37 36499426.47 0.0273 0.0188

Mars 95221-11-11 02:38 G 36500130.50 36500130.61 36500130.73 0.1583 0.0150

Earth 95225-12-15 14:53 G 36501626.01 36501626.12 36501626.23 0.2637 0.0704

Moon 95225-12-15 15:21 G 36501626.03 36501626.14 36501626.24 0.2641 0.0646 *

Jupiter 95226-01-28 13:26 G 36501669.88 36501670.06 36501670.25 0.0513 0.0092

Mars 95226-07-27 14:09 G 36501849.96 36501850.09 36501850.22 0.1954 0.1212

Moon 95229-06-18 12:43 G 36502906.89 36502907.03 36502907.17 0.2694 0.1210

Earth 95229-06-18 14:24 G 36502906.96 36502907.10 36502907.25 0.2696 0.1056 *

Neptune 95230-07-11 12:00 G 36503294.96 36503295.00 36503295.04 0.0088 0.0083

Neptune 95230-10-07 13:12 G 36503382.99 36503383.05 36503383.12 0.0088 0.0076

Neptune 95231-01-03 14:24 G 36503471.03 36503471.10 36503471.19 0.0088 0.0069

Neptune 95231-04-01 15:50 G 36503559.07 36503559.16 36503559.25 0.0088 0.0062

Mars 95231-04-03 14:24 G 36503560.99 36503561.10 36503561.22 0.1584 0.0219

Neptune 95231-06-28 17:02 G 36503647.11 36503647.21 36503647.32 0.0088 0.0055

Jupiter 95231-09-24 00:29 G 36503734.40 36503734.52 36503734.65 0.0513 0.0098

Neptune 95231-09-24 18:29 G 36503735.16 36503735.27 36503735.38 0.0088 0.0048

Neptune 95231-12-21 19:41 G 36503823.20 36503823.32 36503823.44 0.0088 0.0041

Neptune 95232-03-18 20:53 G 36503911.25 36503911.37 36503911.49 0.0088 0.0034

Neptune 95232-06-14 22:05 G 36503999.30 36503999.42 36503999.55 0.0088 0.0027

Neptune 95232-09-10 23:31 G 36504087.35 36504087.48 36504087.61 0.0088 0.0020

Neptune 95232-12-08 00:43 G 36504175.40 36504175.53 36504175.66 0.0088 0.0013

Neptune 95233-03-06 01:55 G 36504263.45 36504263.58 36504263.72 0.0088 0.0006

Mars 95233-03-08 15:36 G 36504266.08 36504266.15 36504266.22 0.1581 0.1270

Neptune 95233-06-02 03:21 G 36504351.50 36504351.64 36504351.77 0.0088 0.0003

Neptune 95233-08-29 04:33 G 36504439.56 36504439.69 36504439.82 0.0088 0.0008

Neptune 95233-11-25 05:45 G 36504527.61 36504527.74 36504527.87 0.0088 0.0015

Neptune 95234-02-21 06:57 G 36504615.67 36504615.79 36504615.92 0.0088 0.0022

Neptune 95234-05-20 08:09 G 36504703.72 36504703.84 36504703.97 0.0088 0.0030

Neptune 95234-08-16 09:21 G 36504791.78 36504791.89 36504792.02 0.0088 0.0037

Neptune 95234-11-12 10:48 G 36504879.84 36504879.95 36504880.07 0.0088 0.0043

Neptune 95235-02-08 12:00 G 36504967.90 36504968.00 36504968.12 0.0088 0.0051

Neptune 95235-05-07 13:12 G 36505055.96 36505056.05 36505056.16 0.0088 0.0058

Neptune 95235-08-03 14:38 G 36505144.03 36505144.11 36505144.21 0.0088 0.0065

Saturn 95235-09-19 16:05 G 36505191.00 36505191.17 36505191.35 0.0287 0.0114

Neptune 95235-10-30 15:50 G 36505232.10 36505232.16 36505232.25 0.0088 0.0072

Saturn 95235-12-17 17:31 G 36505280.05 36505280.23 36505280.40 0.0288 0.0104

Neptune 95236-01-26 17:02 G 36505320.17 36505320.21 36505320.28 0.0088 0.0079

Neptune 95236-04-23 18:29 G 36505408.25 36505408.27 36505408.30 0.0088 0.0086

Jupiter 95237-11-16 09:50 G 36505979.74 36505979.91 36505980.09 0.0512 0.0153

Earth 95238-12-18 08:09 G 36506376.74 36506376.84 36506376.95 0.2636 0.0716

Moon 95238-12-18 08:53 G 36506376.77 36506376.87 36506376.97 0.2637 0.0868 *

Mars 95240-08-24 02:09 G 36506991.48 36506991.59 36506991.70 0.1585 0.0575

Moon 95242-06-21 20:53 G 36507658.27 36507658.37 36507658.48 0.2701 0.2005

Earth 95242-06-21 22:19 G 36507658.36 36507658.43 36507658.51 0.2697 0.2318 *

Mars 95242-07-30 03:07 G 36507696.54 36507696.63 36507696.73 0.1581 0.0903

Jupiter 95243-07-13 05:02 G 36508044.60 36508044.71 36508044.82 0.0513 0.0264

Jupiter 95243-10-10 08:53 G 36508133.79 36508133.87 36508133.95 0.0511 0.0391

Uranus 95246-03-06 18:00 G 36509012.21 36509012.25 36509012.29 0.0142 0.0134

Uranus 95246-06-02 21:21 G 36509100.31 36509100.39 36509100.47 0.0142 0.0112

Uranus 95246-08-30 00:43 G 36509188.44 36509188.53 36509188.64 0.0142 0.0091

Uranus 95246-11-26 04:19 G 36509276.57 36509276.68 36509276.80 0.0142 0.0070

Uranus 95247-02-22 07:41 G 36509364.70 36509364.82 36509364.95 0.0143 0.0049

Mars 95247-04-16 07:41 G 36509417.74 36509417.82 36509417.91 0.1958 0.1659

Uranus 95247-05-21 11:17 G 36509452.84 36509452.97 36509453.10 0.0143 0.0027

Uranus 95247-08-17 14:53 G 36509540.98 36509541.12 36509541.25 0.0143 0.0006

Uranus 95247-11-13 18:14 G 36509629.13 36509629.26 36509629.39 0.0143 0.0017

Uranus 95248-02-09 21:50 G 36509717.28 36509717.41 36509717.54 0.0143 0.0039

Uranus 95248-05-08 01:12 G 36509805.44 36509805.55 36509805.67 0.0143 0.0061

Saturn 95248-08-03 15:50 G 36509893.10 36509893.16 36509893.22 0.0277 0.0238

Uranus 95248-08-04 04:48 G 36509893.59 36509893.70 36509893.81 0.0143 0.0082

Saturn 95248-10-31 02:09 G 36509981.48 36509981.59 36509981.72 0.0276 0.0109

Uranus 95248-10-31 08:24 G 36509981.76 36509981.85 36509981.94 0.0143 0.0104

Saturn 95249-01-27 12:43 G 36510069.90 36510070.03 36510070.16 0.0275 0.0020

Uranus 95249-01-27 11:45 G 36510069.94 36510069.99 36510070.06 0.0143 0.0126 *

Saturn 95249-04-25 23:02 G 36510158.36 36510158.46 36510158.58 0.0274 0.0147

Saturn 95249-07-23 09:21 G 36510246.89 36510246.89 36510246.91 0.0273 0.0272

Jupiter 95249-09-04 06:14 G 36510289.65 36510289.76 36510289.88 0.0512 0.0396

Mars 95250-01-14 14:09 G 36510421.99 36510422.09 36510422.18 0.1587 0.0933

Mars 95251-12-20 14:53 G 36511127.01 36511127.12 36511127.23 0.1582 0.0543

Earth 95251-12-21 01:41 G 36511127.51 36511127.57 36511127.63 0.2635 0.2149

Moon 95251-12-21 02:09 G 36511127.53 36511127.59 36511127.65 0.2630 0.2165 *

Jupiter 95255-05-01 09:50 G 36512354.85 36512354.91 36512354.98 0.0514 0.0424

Jupiter 95255-07-29 13:41 G 36512443.96 36512444.07 36512444.19 0.0512 0.0232

Venus 95256-01-19 13:55 G 36512618.00 36512618.08 36512618.16 0.3627 0.2012

Mars 95256-09-04 23:31 G 36512847.32 36512847.48 36512847.65 0.1957 0.0285

Moon 95258-12-14 02:09 G 36513677.52 36513677.59 36513677.67 0.2644 0.1821

Earth 95258-12-14 02:24 G 36513677.52 36513677.60 36513677.67 0.2638 0.1833 *

Mars 95259-06-07 01:55 G 36513852.52 36513852.58 36513852.65 0.1589 0.1288

Mars 95261-05-12 02:38 G 36514557.49 36514557.61 36514557.73 0.1583 0.0181

Venus 95261-08-04 04:33 G 36514641.59 36514641.69 36514641.80 0.3626 0.0187

Jupiter 95261-09-21 17:17 G 36514690.10 36514690.22 36514690.35 0.0514 0.0377

Venus 95264-05-12 12:00 G 36515653.87 36515654.00 36515654.13 0.3747 0.2342

Saturn 95265-02-05 12:00 G 36515922.87 36515923.00 36515923.14 0.0287 0.0195

Saturn 95265-05-05 13:12 G 36516011.86 36516012.05 36516012.24 0.0288 0.0021

Saturn 95265-08-02 14:09 G 36516100.99 36516101.09 36516101.20 0.0289 0.0238

Mars 95266-01-25 15:21 G 36516277.00 36516277.14 36516277.27 0.1954 0.1113

Venus 95267-02-17 19:26 G 36516665.22 36516665.31 36516665.40 0.3624 0.1808

Jupiter 95267-05-17 18:29 G 36516754.14 36516754.27 36516754.39 0.0513 0.0069

Mars 95270-10-02 14:24 G 36517987.99 36517988.10 36517988.22 0.1584 0.0182

Earth 95271-12-16 19:41 G 36518428.21 36518428.32 36518428.43 0.2636 0.0423

Moon 95271-12-16 20:09 G 36518428.23 36518428.34 36518428.45 0.2641 0.0346 *

Mars 95272-09-06 15:36 G 36518693.08 36518693.15 36518693.21 0.1581 0.1307

Jupiter 95273-07-10 13:26 G 36518999.88 36519000.06 36519000.24 0.0513 0.0128

Moon 95275-06-19 19:26 G 36519709.16 36519709.31 36519709.47 0.2695 0.0714

Earth 95275-06-19 21:07 G 36519709.23 36519709.38 36519709.54 0.2696 0.0423 *

Saturn 95278-03-20 04:05 G 36520713.57 36520713.67 36520713.78 0.0276 0.0154

Saturn 95278-06-16 14:38 G 36520801.98 36520802.11 36520802.24 0.0275 0.0026

Saturn 95278-09-13 01:12 G 36520890.43 36520890.55 36520890.67 0.0274 0.0102

Saturn 95278-12-10 11:31 G 36520978.91 36520978.98 36520979.05 0.0273 0.0227

Jupiter 95279-03-05 23:31 G 36521064.35 36521064.48 36521064.60 0.0513 0.0090

Mars 95280-02-23 02:09 G 36521418.48 36521418.59 36521418.70 0.1585 0.0539

Mars 95282-01-28 03:07 G 36522123.54 36522123.63 36522123.73 0.1581 0.0946

Earth 95284-12-18 12:57 G 36523178.94 36523179.04 36523179.14 0.2635 0.1005

Moon 95284-12-18 13:41 G 36523178.97 36523179.07 36523179.17 0.2636 0.1080 *

Jupiter 95285-04-28 09:07 G 36523309.70 36523309.88 36523310.06 0.0512 0.0128

Mars 95286-10-15 08:38 G 36523844.79 36523844.86 36523844.93 0.1958 0.1762

Uranus 95287-09-25 00:43 G 36524189.43 36524189.53 36524189.64 0.0135 0.0115

Uranus 95287-12-22 08:09 G 36524277.70 36524277.84 36524278.00 0.0135 0.0087

Uranus 95288-03-19 15:50 G 36524365.99 36524366.16 36524366.34 0.0135 0.0060

Uranus 95288-06-15 23:17 G 36524454.29 36524454.47 36524454.67 0.0135 0.0032

Uranus 95288-09-12 06:57 G 36524542.59 36524542.79 36524542.98 0.0135 0.0004

Uranus 95288-12-09 14:24 G 36524630.91 36524631.10 36524631.29 0.0135 0.0023

Uranus 95289-03-07 21:50 G 36524719.23 36524719.41 36524719.59 0.0135 0.0050

Uranus 95289-06-04 05:17 G 36524807.56 36524807.72 36524807.88 0.0135 0.0077

Mars 95289-07-15 13:55 G 36524848.99 36524849.08 36524849.18 0.1587 0.0900

Uranus 95289-08-31 12:29 G 36524895.91 36524896.02 36524896.15 0.0135 0.0105

Uranus 95289-11-27 19:55 G 36524984.29 36524984.33 36524984.38 0.0135 0.0131

Jupiter 95290-12-23 04:19 G 36525374.57 36525374.68 36525374.80 0.0514 0.0245

Jupiter 95291-03-22 08:24 G 36525463.77 36525463.85 36525463.92 0.0512 0.0413

Mars 95291-06-20 14:53 G 36525554.01 36525554.12 36525554.23 0.1582 0.0579

Saturn 95294-06-25 07:26 G 36526654.78 36526654.81 36526654.85 0.0286 0.0279

Saturn 95294-09-22 08:38 G 36526743.68 36526743.86 36526744.05 0.0287 0.0064

Saturn 95294-12-20 09:36 G 36526832.75 36526832.90 36526833.07 0.0288 0.0153

Mars 95296-03-06 00:29 G 36527274.36 36527274.52 36527274.69 0.1957 0.0382

Jupiter 95297-02-14 05:31 G 36527619.61 36527619.73 36527619.86 0.0512 0.0371

Earth 95297-12-21 06:29 G 36527929.73 36527929.77 36527929.81 0.2635 0.2439

Moon 95297-12-21 06:57 G 36527929.77 36527929.79 36527929.81 0.2630 0.2569 *

Mars 95298-12-06 01:55 G 36528279.51 36528279.58 36528279.65 0.1589 0.1254

Mars 95300-11-11 02:38 G 36528984.49 36528984.61 36528984.73 0.1583 0.0216

Jupiter 95302-10-12 09:07 G 36529684.80 36529684.88 36529684.95 0.0514 0.0408

Jupiter 95303-01-09 12:57 G 36529773.93 36529774.04 36529774.15 0.0512 0.0248

Moon 95304-12-15 07:12 G 36530479.71 36530479.80 36530479.89 0.2643 0.1577

Earth 95304-12-15 06:57 G 36530479.71 36530479.79 36530479.88 0.2637 0.1549 *

Mars 95305-07-27 15:50 G 36530704.02 36530704.16 36530704.30 0.1955 0.1038

Venus 95307-02-10 20:24 G 36531267.30 36531267.35 36531267.39 0.3628 0.3235

Saturn 95307-08-08 06:00 G 36531445.67 36531445.75 36531445.84 0.0277 0.0202

Saturn 95307-11-04 16:33 G 36531534.07 36531534.19 36531534.32 0.0276 0.0072

Saturn 95308-02-01 03:07 G 36531622.50 36531622.63 36531622.76 0.0275 0.0056

Saturn 95308-04-29 13:26 G 36531710.97 36531711.06 36531711.16 0.0274 0.0183

Jupiter 95309-03-04 16:19 G 36532020.07 36532020.18 36532020.30 0.0514 0.0400

Mars 95310-04-03 14:24 G 36532414.98 36532415.10 36532415.22 0.1584 0.0144

Mars 95312-03-08 15:36 G 36533120.09 36533120.15 36533120.21 0.1581 0.1344

Venus 95312-08-26 11:02 G 36533290.87 36533290.96 36533291.06 0.3627 0.1335

Neptune 95314-03-26 00:43 G 36533867.48 36533867.53 36533867.62 0.0090 0.0084

Neptune 95314-06-22 04:33 G 36533955.60 36533955.69 36533955.82 0.0090 0.0073

Neptune 95314-09-18 08:24 G 36534043.72 36534043.85 36534044.01 0.0090 0.0062

Jupiter 95314-10-28 17:45 G 36534084.12 36534084.24 36534084.37 0.0512 0.0089

Neptune 95314-12-15 12:00 G 36534131.86 36534132.00 36534132.18 0.0090 0.0051

Neptune 95315-03-13 15:50 G 36534220.00 36534220.16 36534220.35 0.0090 0.0040

Neptune 95315-06-09 19:41 G 36534308.15 36534308.32 36534308.52 0.0090 0.0029

Neptune 95315-09-05 23:31 G 36534396.30 36534396.48 36534396.68 0.0090 0.0018

Neptune 95315-12-03 03:21 G 36534484.45 36534484.64 36534484.84 0.0090 0.0006

Neptune 95316-02-29 07:12 G 36534572.60 36534572.80 36534572.99 0.0090 0.0005

Neptune 95316-05-27 10:48 G 36534660.76 36534660.95 36534661.14 0.0090 0.0016

Neptune 95316-08-23 14:24 G 36534748.92 36534749.10 36534749.29 0.0090 0.0027

Neptune 95316-11-19 18:00 G 36534837.08 36534837.25 36534837.44 0.0090 0.0038

Neptune 95317-02-15 21:36 G 36534925.25 36534925.40 36534925.58 0.0090 0.0049

Neptune 95317-05-15 01:12 G 36535013.42 36535013.55 36535013.71 0.0090 0.0060

Neptune 95317-08-11 04:48 G 36535101.60 36535101.70 36535101.84 0.0090 0.0071

Neptune 95317-11-07 08:24 G 36535189.79 36535189.85 36535189.95 0.0090 0.0082

Earth 95317-12-18 00:29 G 36535230.41 36535230.52 36535230.63 0.2636 0.0161

Moon 95317-12-18 00:57 G 36535230.43 36535230.54 36535230.65 0.2641 0.0038 *

Venus 95318-03-12 01:55 G 36535314.48 36535314.58 36535314.68 0.3625 0.0583

Mars 95319-08-25 02:09 G 36535845.48 36535845.59 36535845.70 0.1585 0.0503

Venus 95320-12-18 15:36 G 36536326.98 36536327.15 36536327.31 0.3748 0.0571

Jupiter 95320-12-21 12:57 G 36536329.87 36536330.04 36536330.22 0.0513 0.0158

Moon 95321-06-21 02:09 G 36536511.44 36536511.59 36536511.75 0.2697 0.0080

Earth 95321-06-21 04:05 G 36536511.51 36536511.67 36536511.82 0.2696 0.0224 *

Mars 95321-07-30 03:07 G 36536550.54 36536550.63 36536550.72 0.1581 0.0980

Venus 95323-09-25 16:33 G 36537338.12 36537338.19 36537338.27 0.3624 0.2488

Saturn 95324-02-10 04:19 G 36537475.52 36537475.68 36537475.85 0.0286 0.0145

Saturn 95324-05-09 05:31 G 36537564.55 36537564.73 36537564.91 0.0288 0.0070

Saturn 95324-08-06 06:14 G 36537653.76 36537653.76 36537653.79 0.0289 0.0288

Mars 95326-04-16 09:36 G 36538271.86 36538271.90 36538271.95 0.1959 0.1861

Jupiter 95326-08-16 22:33 G 36538394.31 36538394.44 36538394.56 0.0513 0.0075

Mars 95329-01-14 14:09 G 36539275.99 36539276.09 36539276.18 0.1587 0.0861

Uranus 95330-03-28 00:43 G 36539713.49 36539713.53 36539713.59 0.0142 0.0131

Uranus 95330-06-24 04:05 G 36539801.60 36539801.67 36539801.76 0.0142 0.0110

Uranus 95330-09-20 07:41 G 36539889.72 36539889.82 36539889.92 0.0143 0.0088

Uranus 95330-12-17 11:02 G 36539977.85 36539977.96 36539978.08 0.0143 0.0067

Mars 95330-12-20 14:53 G 36539981.01 36539981.12 36539981.23 0.1582 0.0616

Earth 95330-12-20 17:45 G 36539981.14 36539981.24 36539981.33 0.2635 0.1293 *

Moon 95330-12-20 18:29 G 36539981.17 36539981.27 36539981.36 0.2634 0.1398 *

Uranus 95331-03-15 14:38 G 36540065.99 36540066.11 36540066.24 0.0143 0.0045

Uranus 95331-06-11 18:14 G 36540154.13 36540154.26 36540154.39 0.0143 0.0024

Uranus 95331-09-07 21:36 G 36540242.27 36540242.40 36540242.53 0.0143 0.0002

Uranus 95331-12-05 01:12 G 36540330.42 36540330.55 36540330.68 0.0143 0.0020

Uranus 95332-03-02 04:33 G 36540418.57 36540418.69 36540418.82 0.0143 0.0042

Uranus 95332-05-29 08:09 G 36540506.72 36540506.84 36540506.96 0.0143 0.0064

Uranus 95332-08-25 11:31 G 36540594.88 36540594.98 36540595.09 0.0143 0.0086

Jupiter 95332-10-09 09:21 G 36540639.71 36540639.89 36540640.07 0.0513 0.0091

Uranus 95332-11-21 15:07 G 36540683.05 36540683.13 36540683.22 0.0143 0.0108

Uranus 95333-02-17 18:43 G 36540771.23 36540771.28 36540771.34 0.0143 0.0129

Mars 95335-09-06 01:26 G 36541701.40 36541701.56 36541701.72 0.1957 0.0476

Saturn 95336-12-25 07:41 G 36542177.77 36542177.82 36542177.88 0.0278 0.0250

Saturn 95337-03-23 18:14 G 36542266.15 36542266.26 36542266.38 0.0276 0.0120

Saturn 95337-06-20 04:48 G 36542354.57 36542354.70 36542354.83 0.0275 0.0009

Saturn 95337-09-16 15:21 G 36542443.02 36542443.14 36542443.25 0.0274 0.0136

Saturn 95337-12-14 01:41 G 36542531.54 36542531.57 36542531.60 0.0273 0.0262

Jupiter 95338-06-05 03:21 G 36542704.53 36542704.64 36542704.76 0.0514 0.0233

Mars 95338-06-07 01:55 G 36542706.50 36542706.58 36542706.65 0.1588 0.1221

Jupiter 95338-09-02 07:12 G 36542793.74 36542793.80 36542793.87 0.0512 0.0424

Mars 95340-05-12 02:38 G 36543411.49 36543411.61 36543411.73 0.1583 0.0256

Jupiter 95344-07-28 05:02 G 36544949.58 36544949.71 36544949.85 0.0512 0.0345

Mars 95345-01-25 16:48 G 36545131.06 36545131.20 36545131.35 0.1955 0.0938

Mars 95347-10-28 13:41 G 36546137.06 36546137.07 36546137.08 0.1590 0.1578

Pluto 95348-12-09 00:57 G 36546544.45 36546544.54 36546544.63 0.0061 0.0052

Pluto 95349-03-07 01:41 G 36546632.45 36546632.57 36546632.72 0.0061 0.0042

Pluto 95349-06-03 02:53 G 36546720.48 36546720.62 36546720.80 0.0061 0.0032

Pluto 95349-08-30 04:19 G 36546808.51 36546808.68 36546808.86 0.0061 0.0021

Mars 95349-10-02 14:24 G 36546841.98 36546842.10 36546842.22 0.1584 0.0110

Pluto 95349-11-26 05:31 G 36546896.55 36546896.73 36546896.92 0.0061 0.0011

Pluto 95350-02-22 06:57 G 36546984.60 36546984.79 36546984.97 0.0061 0.0001

Jupiter 95350-03-24 08:38 G 36547014.78 36547014.86 36547014.94 0.0514 0.0388

Pluto 95350-05-21 07:55 G 36547072.65 36547072.83 36547073.02 0.0061 0.0010

Jupiter 95350-06-21 12:29 G 36547103.91 36547104.02 36547104.12 0.0512 0.0269

Pluto 95350-08-17 09:07 G 36547160.71 36547160.88 36547161.06 0.0061 0.0021

Pluto 95350-11-13 10:05 G 36547248.78 36547248.92 36547249.09 0.0061 0.0032

Earth 95350-12-16 11:45 G 36547281.90 36547281.99 36547282.09 0.2637 0.1265

Moon 95350-12-16 12:00 G 36547281.91 36547282.00 36547282.10 0.2643 0.1171 *

Pluto 95351-02-09 11:31 G 36547336.85 36547336.98 36547337.12 0.0062 0.0042

Pluto 95351-05-08 12:29 G 36547424.94 36547425.02 36547425.13 0.0062 0.0053

Mars 95351-09-07 15:36 G 36547547.09 36547547.15 36547547.20 0.1580 0.1384

Saturn 95353-06-28 23:31 G 36548207.37 36548207.48 36548207.59 0.0286 0.0232

Saturn 95353-09-26 00:43 G 36548296.34 36548296.53 36548296.72 0.0287 0.0018

Saturn 95353-12-24 01:41 G 36548385.43 36548385.57 36548385.70 0.0288 0.0200

Earth 95354-06-19 02:38 G 36548562.56 36548562.61 36548562.66 0.2695 0.2564

Jupiter 95356-08-14 16:05 G 36549350.07 36549350.17 36549350.27 0.0514 0.0426

Mars 95359-02-23 02:09 G 36550272.48 36550272.59 36550272.70 0.1585 0.0468

Mars 95361-01-28 03:07 G 36550977.54 36550977.63 36550977.72 0.1581 0.1015

Jupiter 95362-04-09 17:02 G 36551414.09 36551414.21 36551414.34 0.0512 0.0107

Venus 95363-09-17 17:31 G 36551940.16 36551940.23 36551940.30 0.3628 0.2555

Earth 95363-12-19 05:02 G 36552032.60 36552032.71 36552032.82 0.2636 0.0182

Moon 95363-12-19 05:45 G 36552032.63 36552032.74 36552032.85 0.2640 0.0212 *

Mars 95365-10-15 10:19 G 36552698.91 36552698.93 36552698.95 0.1958 0.1940

Saturn 95366-08-10 20:09 G 36552998.24 36552998.34 36552998.44 0.0277 0.0168

Saturn 95366-11-07 06:43 G 36553086.65 36553086.78 36553086.91 0.0276 0.0038

Saturn 95367-02-03 17:17 G 36553175.09 36553175.22 36553175.34 0.0275 0.0090

Saturn 95367-05-03 03:36 G 36553263.57 36553263.65 36553263.73 0.0274 0.0217

Moon 95367-06-22 09:07 G 36553313.72 36553313.88 36553314.03 0.2699 0.0641

Earth 95367-06-22 10:48 G 36553313.80 36553313.95 36553314.10 0.2696 0.0846 *

Jupiter 95368-06-02 12:14 G 36553659.83 36553660.01 36553660.18 0.0514 0.0179

Mars 95368-07-15 13:55 G 36553702.98 36553703.08 36553703.18 0.1587 0.0828

Venus 95369-04-02 08:24 G 36553963.75 36553963.85 36553963.95 0.3626 0.0647

Mars 95370-06-20 14:53 G 36554408.01 36554408.12 36554408.23 0.1582 0.0654

Uranus 95371-07-20 00:14 G 36554802.51 36554802.51 36554802.51 0.0136 0.0136

Uranus 95371-10-16 07:41 G 36554890.71 36554890.82 36554890.94 0.0136 0.0108

Uranus 95372-01-12 15:07 G 36554978.99 36554979.13 36554979.30 0.0135 0.0081

Uranus 95372-04-09 22:48 G 36555067.28 36555067.45 36555067.64 0.0135 0.0053

Uranus 95372-07-07 06:29 G 36555155.58 36555155.77 36555155.96 0.0135 0.0025

Uranus 95372-10-03 13:55 G 36555243.89 36555244.08 36555244.28 0.0135 0.0003

Uranus 95372-12-30 21:21 G 36555332.20 36555332.39 36555332.58 0.0135 0.0030

Uranus 95373-03-29 04:48 G 36555420.53 36555420.70 36555420.88 0.0135 0.0057

Uranus 95373-06-25 12:00 G 36555508.86 36555509.00 36555509.16 0.0135 0.0085

Uranus 95373-09-21 19:26 G 36555597.21 36555597.31 36555597.43 0.0135 0.0111

Jupiter 95374-01-26 22:05 G 36555724.29 36555724.42 36555724.54 0.0512 0.0052

Venus 95374-10-16 23:02 G 36555987.37 36555987.46 36555987.56 0.3625 0.1270

Mars 95375-03-07 02:09 G 36556128.43 36556128.59 36556128.75 0.1957 0.0559

Earth 95376-12-20 22:33 G 36556783.35 36556783.44 36556783.53 0.2635 0.1583

Moon 95376-12-20 23:17 G 36556783.38 36556783.47 36556783.55 0.2632 0.1701 *

Venus 95377-07-25 18:57 G 36557000.23 36557000.29 36557000.35 0.3749 0.3459

Mars 95377-12-06 01:55 G 36557133.50 36557133.58 36557133.65 0.1588 0.1185

Mars 95379-11-11 02:38 G 36557838.49 36557838.61 36557838.72 0.1583 0.0291

Jupiter 95380-03-21 08:53 G 36557969.68 36557969.87 36557970.05 0.0513 0.0064

Venus 95380-05-01 13:55 G 36558011.03 36558011.08 36558011.13 0.3623 0.3167

Saturn 95383-02-12 20:24 G 36559028.18 36559028.35 36559028.54 0.0286 0.0098

Saturn 95383-05-12 21:36 G 36559117.23 36559117.40 36559117.57 0.0288 0.0119

Moon 95383-12-14 23:02 G 36559333.41 36559333.46 36559333.50 0.2644 0.2378

Earth 95383-12-14 23:17 G 36559333.43 36559333.47 36559333.51 0.2638 0.2386 *

Mars 95384-07-26 18:00 G 36559558.10 36559558.25 36559558.40 0.1955 0.0832

Jupiter 95385-11-15 02:38 G 36560034.50 36560034.61 36560034.73 0.0513 0.0216

Jupiter 95386-02-12 06:29 G 36560123.71 36560123.77 36560123.83 0.0511 0.0438

Mars 95387-04-28 13:41 G 36560564.04 36560564.07 36560564.09 0.1590 0.1541

Mars 95389-04-02 14:24 G 36561268.98 36561269.10 36561269.22 0.1584 0.0070

Mars 95391-03-08 15:36 G 36561974.10 36561974.15 36561974.20 0.1581 0.1421

Jupiter 95392-01-08 05:02 G 36562279.57 36562279.71 36562279.86 0.0512 0.0309

Neptune 95395-01-10 10:19 G 36563377.93 36563377.93 36563377.96 0.0088 0.0087

Neptune 95395-04-08 11:31 G 36563465.94 36563465.98 36563466.05 0.0088 0.0080

Neptune 95395-07-05 12:57 G 36563553.98 36563554.04 36563554.12 0.0088 0.0073

Neptune 95395-10-01 14:09 G 36563642.02 36563642.09 36563642.19 0.0088 0.0066

Neptune 95395-12-28 15:36 G 36563730.06 36563730.15 36563730.25 0.0088 0.0059

Saturn 95395-12-28 21:50 G 36563730.33 36563730.41 36563730.49 0.0278 0.0217

Neptune 95396-03-25 16:48 G 36563818.10 36563818.20 36563818.31 0.0088 0.0052

Saturn 95396-03-26 08:24 G 36563818.72 36563818.85 36563818.97 0.0276 0.0087

Neptune 95396-06-21 18:00 G 36563906.15 36563906.25 36563906.37 0.0088 0.0045

Saturn 95396-06-22 18:43 G 36563907.16 36563907.28 36563907.41 0.0275 0.0044

Neptune 95396-09-17 19:26 G 36563994.19 36563994.31 36563994.43 0.0088 0.0038

Saturn 95396-09-19 05:17 G 36563995.62 36563995.72 36563995.82 0.0274 0.0170

Neptune 95396-12-14 20:38 G 36564082.24 36564082.36 36564082.49 0.0088 0.0031

Earth 95396-12-16 16:33 G 36564084.09 36564084.19 36564084.29 0.2637 0.0978

Moon 95396-12-16 17:02 G 36564084.10 36564084.21 36564084.31 0.2643 0.0998 *

Neptune 95397-03-12 21:50 G 36564170.29 36564170.41 36564170.54 0.0088 0.0024

Neptune 95397-06-08 23:17 G 36564258.34 36564258.47 36564258.60 0.0088 0.0017

Jupiter 95397-09-03 07:41 G 36564344.73 36564344.82 36564344.90 0.0514 0.0375

Neptune 95397-09-05 00:29 G 36564346.39 36564346.52 36564346.66 0.0088 0.0010

Jupiter 95397-12-01 11:31 G 36564433.87 36564433.98 36564434.08 0.0512 0.0281

Neptune 95397-12-02 01:55 G 36564434.44 36564434.58 36564434.71 0.0088 0.0003

Neptune 95398-02-28 03:07 G 36564522.50 36564522.63 36564522.76 0.0088 0.0005

Neptune 95398-05-27 04:19 G 36564610.55 36564610.68 36564610.81 0.0088 0.0012

Neptune 95398-08-23 05:31 G 36564698.61 36564698.73 36564698.87 0.0088 0.0019

Mars 95398-08-24 02:09 G 36564699.48 36564699.59 36564699.70 0.1585 0.0431

Neptune 95398-11-19 06:57 G 36564786.66 36564786.79 36564786.92 0.0088 0.0026

Neptune 95399-02-15 08:09 G 36564874.72 36564874.84 36564874.97 0.0088 0.0033

Neptune 95399-05-14 09:21 G 36564962.78 36564962.89 36564963.01 0.0088 0.0040

Neptune 95399-08-10 10:48 G 36565050.84 36565050.95 36565051.06 0.0088 0.0047

Neptune 95399-11-06 12:00 G 36565138.90 36565139.00 36565139.11 0.0088 0.0054

Neptune 95400-02-02 13:12 G 36565226.96 36565227.05 36565227.15 0.0088 0.0061

Neptune 95400-05-01 14:38 G 36565315.03 36565315.11 36565315.19 0.0088 0.0068

Moon 95400-06-20 07:41 G 36565364.72 36565364.82 36565364.92 0.2693 0.2059

Earth 95400-06-20 09:21 G 36565364.78 36565364.89 36565365.00 0.2695 0.1933 *

Neptune 95400-07-28 16:05 G 36565403.10 36565403.17 36565403.23 0.0088 0.0075

Mars 95400-07-30 03:07 G 36565404.54 36565404.63 36565404.72 0.1581 0.1056

Neptune 95400-10-24 16:48 G 36565491.18 36565491.20 36565491.26 0.0088 0.0083

Jupiter 95404-01-26 15:21 G 36566680.06 36566680.14 36566680.23 0.0514 0.0452

Mars 95408-01-15 13:55 G 36568129.98 36568130.08 36568130.18 0.1587 0.0794

Jupiter 95409-09-20 16:33 G 36568744.06 36568744.19 36568744.31 0.0513 0.0127

Earth 95409-12-20 09:50 G 36568834.80 36568834.91 36568835.02 0.2636 0.0444

Moon 95409-12-20 10:33 G 36568834.83 36568834.94 36568835.05 0.2638 0.0593 *

Mars 95409-12-20 14:53 G 36568835.01 36568835.12 36568835.22 0.1582 0.0691 *

Saturn 95412-07-02 16:05 G 36569760.03 36569760.17 36569760.32 0.0286 0.0180

Saturn 95412-09-29 17:17 G 36569849.03 36569849.22 36569849.40 0.0287 0.0035

Saturn 95412-12-27 18:00 G 36569938.17 36569938.25 36569938.35 0.0288 0.0251

Moon 95413-06-23 15:50 G 36570116.02 36570116.16 36570116.30 0.2699 0.1186

Earth 95413-06-23 17:31 G 36570116.10 36570116.23 36570116.36 0.2697 0.1482 *

Uranus 95414-04-18 07:26 G 36570414.76 36570414.81 36570414.87 0.0142 0.0128

Uranus 95414-07-15 10:48 G 36570502.87 36570502.95 36570503.04 0.0142 0.0107

Mars 95414-09-06 03:21 G 36570555.48 36570555.64 36570555.79 0.1957 0.0664

Uranus 95414-10-11 14:24 G 36570591.00 36570591.10 36570591.20 0.0143 0.0086

Uranus 95415-01-07 17:45 G 36570679.13 36570679.24 36570679.36 0.0143 0.0065

Uranus 95415-04-05 21:21 G 36570767.26 36570767.39 36570767.51 0.0143 0.0043

Uranus 95415-07-03 00:43 G 36570855.40 36570855.53 36570855.66 0.0143 0.0022

Uranus 95415-09-29 04:19 G 36570943.55 36570943.68 36570943.81 0.0143 0.0002

Jupiter 95415-11-14 11:45 G 36570989.82 36570989.99 36570990.16 0.0513 0.0208

Uranus 95415-12-26 07:41 G 36571031.69 36571031.82 36571031.95 0.0143 0.0022

Uranus 95416-03-23 11:17 G 36571119.84 36571119.97 36571120.09 0.0143 0.0044

Uranus 95416-06-19 14:38 G 36571208.00 36571208.11 36571208.23 0.0143 0.0066

Uranus 95416-09-15 18:14 G 36571296.16 36571296.26 36571296.37 0.0143 0.0088

Uranus 95416-12-12 21:50 G 36571384.33 36571384.41 36571384.49 0.0143 0.0109

Uranus 95417-03-11 01:26 G 36571472.51 36571472.56 36571472.61 0.0143 0.0131

Mars 95417-06-07 01:41 G 36571560.50 36571560.57 36571560.65 0.1588 0.1152

Mars 95419-05-13 02:38 G 36572265.49 36572265.61 36572265.72 0.1582 0.0329

Venus 95420-04-24 14:53 G 36572613.03 36572613.12 36572613.20 0.3627 0.1872

Jupiter 95421-07-09 21:21 G 36573054.26 36573054.39 36573054.51 0.0512 0.0037

Earth 95422-12-23 03:21 G 36573585.56 36573585.64 36573585.71 0.2635 0.1875

Moon 95422-12-23 04:05 G 36573585.59 36573585.67 36573585.74 0.2632 0.1949 *

Mars 95424-01-26 18:29 G 36573985.12 36573985.27 36573985.42 0.1955 0.0764

Saturn 95425-05-17 23:31 G 36574462.45 36574462.48 36574462.52 0.0279 0.0267

Saturn 95425-08-14 10:05 G 36574550.81 36574550.92 36574551.04 0.0277 0.0136

Venus 95425-11-08 05:31 G 36574636.63 36574636.73 36574636.83 0.3626 0.0109

Saturn 95425-11-10 20:38 G 36574639.23 36574639.36 36574639.49 0.0276 0.0006

Saturn 95426-02-07 07:12 G 36574727.68 36574727.80 36574727.91 0.0275 0.0123

Saturn 95426-05-06 17:31 G 36574816.18 36574816.23 36574816.29 0.0274 0.0250

Mars 95426-10-28 13:41 G 36574991.03 36574991.07 36574991.10 0.1590 0.1510

Jupiter 95427-09-02 07:41 G 36575299.63 36575299.82 36575300.01 0.0513 0.0045

Venus 95428-08-16 07:55 G 36575648.73 36575648.83 36575648.94 0.3747 0.2868

Mars 95428-10-02 14:24 G 36575695.98 36575696.10 36575696.22 0.1584 0.0044

Moon 95429-12-16 04:05 G 36576135.61 36576135.67 36576135.73 0.2644 0.2161

Earth 95429-12-16 04:05 G 36576135.61 36576135.67 36576135.73 0.2638 0.2104 *

Mars 95430-09-07 15:21 G 36576401.10 36576401.14 36576401.19 0.1580 0.1459

Venus 95431-05-24 20:24 G 36576660.26 36576660.35 36576660.43 0.3624 0.1950

Jupiter 95433-04-28 02:09 G 36577364.48 36577364.59 36577364.71 0.0513 0.0192

Jupiter 95433-07-26 06:00 G 36577453.70 36577453.75 36577453.80 0.0511 0.0460

Mars 95438-02-23 02:09 G 36579126.47 36579126.59 36579126.70 0.1585 0.0399

Jupiter 95439-06-21 04:19 G 36579609.52 36579609.68 36579609.83 0.0513 0.0287

Mars 95440-01-29 03:07 G 36579831.55 36579831.63 36579831.72 0.1581 0.1092

Saturn 95441-11-19 12:14 G 36580491.94 36580492.01 36580492.10 0.0285 0.0256

Pluto 95442-01-03 10:33 G 36580536.93 36580536.94 36580536.97 0.0084 0.0083

Saturn 95442-02-16 13:26 G 36580580.87 36580581.06 36580581.25 0.0286 0.0043

Pluto 95442-04-01 11:45 G 36580624.91 36580624.99 36580625.09 0.0083 0.0063

Saturn 95442-05-16 14:09 G 36580669.95 36580670.09 36580670.25 0.0287 0.0173

Pluto 95442-06-28 13:12 G 36580712.94 36580713.05 36580713.17 0.0083 0.0043

Pluto 95442-09-24 14:38 G 36580800.98 36580801.11 36580801.24 0.0083 0.0023

Earth 95442-12-18 21:21 G 36580886.28 36580886.39 36580886.49 0.2637 0.0698

Moon 95442-12-18 21:36 G 36580886.30 36580886.40 36580886.51 0.2643 0.0584 *

Pluto 95442-12-21 15:50 G 36580889.02 36580889.16 36580889.30 0.0083 0.0003

Pluto 95443-03-19 17:02 G 36580977.08 36580977.21 36580977.35 0.0083 0.0017

Pluto 95443-06-15 18:14 G 36581065.15 36581065.26 36581065.39 0.0083 0.0037

Pluto 95443-09-11 19:41 G 36581153.22 36581153.32 36581153.42 0.0083 0.0056

Pluto 95443-12-08 20:38 G 36581241.32 36581241.36 36581241.43 0.0083 0.0076

Jupiter 95445-02-14 06:57 G 36581674.70 36581674.79 36581674.87 0.0513 0.0358

Jupiter 95445-05-14 10:33 G 36581763.84 36581763.94 36581764.05 0.0512 0.0297

Moon 95446-06-21 14:38 G 36582166.98 36582167.11 36582167.23 0.2695 0.1645

Earth 95446-06-21 16:19 G 36582167.04 36582167.18 36582167.32 0.2696 0.1280 *

Mars 95447-07-16 13:55 G 36582556.98 36582557.08 36582557.18 0.1586 0.0755

Mars 95449-06-20 14:53 G 36583262.01 36583262.12 36583262.22 0.1582 0.0729

Jupiter 95451-07-08 15:07 G 36584010.08 36584010.13 36584010.19 0.0514 0.0485

Mars 95454-03-07 04:05 G 36584982.51 36584982.67 36584982.82 0.1957 0.0751

Saturn 95455-01-01 11:45 G 36585282.89 36585282.99 36585283.09 0.0278 0.0185

Saturn 95455-03-30 22:19 G 36585371.30 36585371.43 36585371.56 0.0277 0.0054

Saturn 95455-06-27 08:53 G 36585459.74 36585459.87 36585459.99 0.0275 0.0076

Uranus 95455-08-10 06:29 G 36585503.73 36585503.77 36585503.83 0.0136 0.0131

Saturn 95455-09-23 19:26 G 36585548.22 36585548.31 36585548.39 0.0274 0.0203

Uranus 95455-11-06 14:09 G 36585591.97 36585592.09 36585592.22 0.0136 0.0103

Earth 95455-12-21 14:38 G 36585637.00 36585637.11 36585637.22 0.2636 0.0729

Moon 95455-12-21 15:21 G 36585637.03 36585637.14 36585637.25 0.2636 0.0772 *

Uranus 95456-02-02 21:36 G 36585680.25 36585680.40 36585680.57 0.0136 0.0076

Uranus 95456-05-01 05:17 G 36585768.54 36585768.72 36585768.91 0.0135 0.0048

Uranus 95456-07-28 12:57 G 36585856.85 36585857.04 36585857.23 0.0135 0.0020

Uranus 95456-10-24 20:24 G 36585945.16 36585945.35 36585945.55 0.0135 0.0007

Mars 95456-12-06 01:41 G 36585987.49 36585987.57 36585987.65 0.1588 0.1117

Uranus 95457-01-21 03:50 G 36586033.47 36586033.66 36586033.85 0.0135 0.0035

Jupiter 95457-03-02 15:36 G 36586074.02 36586074.15 36586074.27 0.0512 0.0139

Uranus 95457-04-19 11:02 G 36586121.80 36586121.96 36586122.14 0.0135 0.0063

Uranus 95457-07-16 18:29 G 36586210.14 36586210.27 36586210.43 0.0135 0.0089

Uranus 95457-10-13 01:55 G 36586298.49 36586298.58 36586298.69 0.0135 0.0116

Mars 95458-11-11 02:38 G 36586692.49 36586692.61 36586692.72 0.1582 0.0367

Moon 95459-06-24 22:33 G 36586918.34 36586918.44 36586918.55 0.2700 0.1952

Earth 95459-06-25 00:14 G 36586918.41 36586918.51 36586918.61 0.2697 0.2102 *

Jupiter 95463-04-26 11:02 G 36588319.79 36588319.96 36588320.13 0.0513 0.0230

Mars 95463-07-27 19:41 G 36588412.16 36588412.32 36588412.48 0.1955 0.0654

Mars 95466-04-28 13:41 G 36589418.03 36589418.07 36589418.11 0.1590 0.1477

Mars 95468-04-02 14:09 G 36590122.98 36590123.09 36590123.21 0.1584 0.0056

Jupiter 95468-12-19 20:38 G 36590384.23 36590384.36 36590384.48 0.0513 0.0026

Earth 95468-12-23 08:09 G 36590387.78 36590387.84 36590387.90 0.2635 0.2165

Moon 95468-12-23 08:38 G 36590387.81 36590387.86 36590387.91 0.2632 0.2291 *

Mars 95470-03-08 15:36 G 36590828.11 36590828.15 36590828.18 0.1580 0.1498

Venus 95471-05-16 21:21 G 36591262.34 36591262.39 36591262.44 0.3628 0.3085

Saturn 95471-07-06 09:21 G 36591312.72 36591312.89 36591313.07 0.0286 0.0122

Saturn 95471-10-03 10:19 G 36591401.75 36591401.93 36591402.11 0.0287 0.0093

Jupiter 95475-02-12 07:12 G 36592629.62 36592629.80 36592629.99 0.0513 0.0021

Moon 95475-12-17 08:53 G 36592937.79 36592937.87 36592937.95 0.2645 0.1792

Earth 95475-12-17 08:53 G 36592937.79 36592937.87 36592937.95 0.2638 0.1819 *

Venus 95476-11-29 12:00 G 36593285.91 36593286.00 36593286.10 0.3627 0.1178

Mars 95477-08-24 02:09 G 36593553.47 36593553.59 36593553.70 0.1585 0.0364

Neptune 95478-09-24 19:55 G 36593950.32 36593950.33 36593950.37 0.0090 0.0089

Neptune 95478-12-21 23:45 G 36594038.41 36594038.49 36594038.60 0.0090 0.0078

Neptune 95479-03-20 03:21 G 36594126.53 36594126.64 36594126.79 0.0090 0.0067

Neptune 95479-06-16 07:12 G 36594214.66 36594214.80 36594214.97 0.0090 0.0056

Mars 95479-07-30 03:07 G 36594258.55 36594258.63 36594258.71 0.1581 0.1128

Neptune 95479-09-12 11:02 G 36594302.80 36594302.96 36594303.14 0.0090 0.0045

Neptune 95479-12-09 14:53 G 36594390.95 36594391.12 36594391.31 0.0090 0.0034

Neptune 95480-03-06 18:43 G 36594479.10 36594479.28 36594479.47 0.0090 0.0022

Neptune 95480-06-02 22:33 G 36594567.25 36594567.44 36594567.63 0.0090 0.0011

Neptune 95480-08-30 02:24 G 36594655.40 36594655.60 36594655.79 0.0090 0.0002

Jupiter 95480-10-08 01:26 G 36594694.44 36594694.56 36594694.68 0.0513 0.0177

Neptune 95480-11-26 06:00 G 36594743.56 36594743.75 36594743.94 0.0090 0.0011

Jupiter 95481-01-05 05:02 G 36594783.67 36594783.71 36594783.76 0.0511 0.0476

Neptune 95481-02-22 09:36 G 36594831.72 36594831.90 36594832.09 0.0090 0.0022

Neptune 95481-05-21 13:12 G 36594919.88 36594920.05 36594920.24 0.0090 0.0033

Neptune 95481-08-17 16:48 G 36595008.04 36595008.20 36595008.38 0.0090 0.0044

Neptune 95481-11-13 20:24 G 36595096.21 36595096.35 36595096.52 0.0090 0.0055

Neptune 95482-02-10 00:00 G 36595184.39 36595184.50 36595184.65 0.0090 0.0066

Neptune 95482-05-09 04:05 G 36595272.57 36595272.67 36595272.77 0.0090 0.0076

Venus 95482-06-15 02:53 G 36595309.52 36595309.62 36595309.72 0.3625 0.0734

Neptune 95482-08-05 07:26 G 36595360.78 36595360.81 36595360.87 0.0090 0.0087

Saturn 95484-05-20 13:26 G 36596015.00 36596015.06 36596015.14 0.0279 0.0233

Saturn 95484-08-17 00:14 G 36596103.39 36596103.51 36596103.63 0.0277 0.0101

Saturn 95484-11-13 10:48 G 36596191.82 36596191.95 36596192.08 0.0276 0.0030

Saturn 95485-02-09 21:21 G 36596280.28 36596280.39 36596280.49 0.0275 0.0158

Venus 95485-03-23 11:17 G 36596321.81 36596321.97 36596322.14 0.3748 0.0026

Jupiter 95486-12-01 02:53 G 36596939.46 36596939.62 36596939.78 0.0513 0.0275

Mars 95487-01-14 13:55 G 36596983.98 36596984.08 36596984.18 0.1586 0.0722

Venus 95487-12-29 17:45 G 36597333.17 36597333.24 36597333.30 0.3624 0.2640

Earth 95488-12-19 02:09 G 36597688.48 36597688.59 36597688.70 0.2637 0.0415

Moon 95488-12-19 02:38 G 36597688.50 36597688.61 36597688.71 0.2641 0.0396 *

Mars 95488-12-19 14:53 G 36597689.01 36597689.12 36597689.22 0.1582 0.0767

Moon 95492-06-21 21:07 G 36598969.23 36598969.38 36598969.53 0.2696 0.0787

Earth 95492-06-21 23:02 G 36598969.31 36598969.46 36598969.61 0.2696 0.0643 *

Jupiter 95492-07-27 06:14 G 36599004.67 36599004.76 36599004.86 0.0513 0.0335

Jupiter 95492-10-24 10:05 G 36599093.82 36599093.92 36599094.02 0.0511 0.0318

Mars 95493-09-05 04:48 G 36599409.55 36599409.70 36599409.85 0.1958 0.0845

Mars 95496-06-06 01:41 G 36600414.49 36600414.57 36600414.66 0.1588 0.1082

Uranus 95498-05-08 14:09 G 36601116.04 36601116.09 36601116.16 0.0142 0.0126

Mars 95498-05-12 02:24 G 36601119.49 36601119.60 36601119.72 0.1582 0.0405

Uranus 95498-08-04 18:00 G 36601204.16 36601204.25 36601204.33 0.0142 0.0104

Uranus 95498-10-31 21:21 G 36601292.28 36601292.39 36601292.50 0.0143 0.0083

Jupiter 95498-12-18 14:09 G 36601340.05 36601340.09 36601340.13 0.0514 0.0501

Uranus 95499-01-28 00:43 G 36601380.41 36601380.53 36601380.65 0.0143 0.0061

Uranus 95499-04-26 04:19 G 36601468.55 36601468.68 36601468.80 0.0143 0.0040

Uranus 95499-07-23 07:41 G 36601556.69 36601556.82 36601556.95 0.0143 0.0018

Uranus 95499-10-19 11:17 G 36601644.83 36601644.97 36601645.10 0.0143 0.0005

Uranus 95500-01-15 14:38 G 36601732.98 36601733.11 36601733.24 0.0143 0.0025

Uranus 95500-04-13 18:14 G 36601821.13 36601821.26 36601821.38 0.0143 0.0047

Uranus 95500-07-10 21:36 G 36601909.29 36601909.40 36601909.52 0.0143 0.0069

Uranus 95500-10-07 00:57 G 36601997.45 36601997.54 36601997.65 0.0143 0.0091

Saturn 95500-11-23 06:29 G 36602044.63 36602044.77 36602044.91 0.0285 0.0191

Uranus 95501-01-03 04:33 G 36602085.62 36602085.69 36602085.78 0.0143 0.0113

Saturn 95501-02-20 07:26 G 36602133.62 36602133.81 36602134.00 0.0286 0.0022

Uranus 95501-04-01 07:55 G 36602173.80 36602173.83 36602173.89 0.0143 0.0135

Saturn 95501-05-20 08:24 G 36602222.74 36602222.85 36602222.95 0.0287 0.0237

Earth 95501-12-22 19:26 G 36602439.21 36602439.31 36602439.41 0.2636 0.1015

Moon 95501-12-22 20:09 G 36602439.24 36602439.34 36602439.44 0.2635 0.1192 *

Mars 95503-01-26 20:38 G 36602839.20 36602839.36 36602839.52 0.1955 0.0557

Jupiter 95504-05-16 10:48 G 36603314.93 36603314.95 36603314.98 0.0514 0.0502

Jupiter 95504-08-13 14:38 G 36603403.99 36603404.11 36603404.23 0.0512 0.0152

Moon 95505-06-26 05:45 G 36603720.68 36603720.74 36603720.80 0.2701 0.2463

Mars 95505-10-28 13:26 G 36603845.02 36603845.06 36603845.11 0.1590 0.1441

Mars 95507-10-03 14:24 G 36604549.98 36604550.10 36604550.21 0.1584 0.0063

Mars 95509-09-07 15:21 G 36605255.12 36605255.14 36605255.17 0.1580 0.1536

Jupiter 95510-10-07 10:19 G 36605649.77 36605649.93 36605650.10 0.0514 0.0255

Saturn 95514-01-05 02:09 G 36606835.48 36606835.59 36606835.70 0.0278 0.0148

Saturn 95514-04-03 12:43 G 36606923.90 36606924.03 36606924.16 0.0277 0.0017

Saturn 95514-06-30 23:17 G 36607012.35 36607012.47 36607012.59 0.0275 0.0113

Saturn 95514-09-27 09:36 G 36607100.85 36607100.90 36607100.97 0.0274 0.0241

Earth 95514-12-25 12:57 G 36607190.00 36607190.04 36607190.07 0.2635 0.2458

Moon 95514-12-25 13:26 G 36607190.02 36607190.06 36607190.09 0.2630 0.2466 *

Jupiter 95516-06-01 19:26 G 36607714.18 36607714.31 36607714.44 0.0513 0.0009

Mars 95517-02-23 01:55 G 36607980.47 36607980.58 36607980.70 0.1585 0.0330

Mars 95519-01-29 03:07 G 36608685.55 36608685.63 36608685.71 0.1581 0.1170

Moon 95521-12-18 13:41 G 36609739.98 36609740.07 36609740.16 0.2645 0.1525

Earth 95521-12-18 13:41 G 36609739.98 36609740.07 36609740.15 0.2638 0.1537 *

Jupiter 95522-07-26 06:00 G 36609959.57 36609959.75 36609959.94 0.0513 0.0012

Mars 95526-07-16 13:55 G 36611410.97 36611411.08 36611411.18 0.1586 0.0689

Venus 95527-12-22 18:28 G 36611935.20 36611935.27 36611935.35 0.3628 0.2393

Jupiter 95528-03-21 00:14 G 36612024.40 36612024.51 36612024.63 0.0513 0.0168

Jupiter 95528-06-18 04:04 G 36612113.64 36612113.67 36612113.71 0.0511 0.0487

Mars 95528-06-20 14:38 G 36612116.01 36612116.11 36612116.22 0.1581 0.0803

Saturn 95530-04-12 03:07 G 36612776.57 36612776.63 36612776.71 0.0285 0.0264

Saturn 95530-07-10 04:19 G 36612865.49 36612865.68 36612865.86 0.0286 0.0051

Saturn 95530-10-07 05:02 G 36612954.56 36612954.71 36612954.87 0.0287 0.0163

Mars 95533-03-07 05:45 G 36613836.60 36613836.74 36613836.89 0.1957 0.0937

Venus 95533-07-07 09:21 G 36613958.79 36613958.89 36613958.99 0.3626 0.0489

Jupiter 95534-05-14 02:09 G 36614269.43 36614269.59 36614269.75 0.0513 0.0250

Earth 95534-12-21 06:57 G 36614490.68 36614490.79 36614490.90 0.2637 0.0159

Moon 95534-12-21 07:26 G 36614490.70 36614490.81 36614490.92 0.2640 0.0009 *

Mars 95535-12-07 01:40 G 36614841.48 36614841.57 36614841.66 0.1588 0.1046

Mars 95537-11-11 02:24 G 36615546.49 36615546.60 36615546.72 0.1582 0.0439

Moon 95538-06-24 04:04 G 36615771.51 36615771.67 36615771.83 0.2696 0.0362

Earth 95538-06-24 06:00 G 36615771.59 36615771.75 36615771.90 0.2696 0.0066 *

Venus 95539-01-21 00:00 G 36615982.41 36615982.50 36615982.60 0.3625 0.1423

Uranus 95539-08-31 12:57 G 36616204.98 36616205.04 36616205.12 0.0136 0.0126

Uranus 95539-11-27 20:24 G 36616293.23 36616293.35 36616293.50 0.0136 0.0099

Jupiter 95540-01-08 05:16 G 36616334.63 36616334.72 36616334.82 0.0513 0.0324

Uranus 95540-02-24 04:04 G 36616381.51 36616381.67 36616381.85 0.0136 0.0071

Jupiter 95540-04-06 09:07 G 36616423.78 36616423.88 36616423.97 0.0511 0.0329

Uranus 95540-05-22 11:45 G 36616469.81 36616469.99 36616470.18 0.0136 0.0043

Uranus 95540-08-18 19:26 G 36616558.11 36616558.31 36616558.50 0.0135 0.0016

Uranus 95540-11-15 02:52 G 36616646.42 36616646.62 36616646.81 0.0135 0.0012

Uranus 95541-02-11 10:19 G 36616734.74 36616734.93 36616735.12 0.0135 0.0039

Uranus 95541-05-10 17:45 G 36616823.07 36616823.24 36616823.41 0.0135 0.0067

Uranus 95541-08-07 00:43 G 36616911.41 36616911.53 36616911.69 0.0135 0.0095

Venus 95541-10-29 14:38 G 36616995.01 36616995.11 36616995.22 0.3748 0.2847

Uranus 95541-11-03 08:09 G 36616999.77 36616999.84 36616999.94 0.0135 0.0121

Mars 95542-07-27 21:07 G 36617266.22 36617266.38 36617266.54 0.1955 0.0481

Saturn 95543-05-25 04:04 G 36617567.58 36617567.67 36617567.77 0.0279 0.0193

Saturn 95543-08-21 14:38 G 36617655.99 36617656.11 36617656.24 0.0277 0.0062

Saturn 95543-11-18 01:12 G 36617744.43 36617744.55 36617744.68 0.0276 0.0070

Saturn 95544-02-14 11:45 G 36617832.90 36617832.99 36617833.08 0.0275 0.0198

Venus 95544-08-05 14:52 G 36618006.08 36618006.12 36618006.16 0.3623 0.3317

Mars 95545-04-28 13:26 G 36618272.01 36618272.06 36618272.12 0.1590 0.1408

Jupiter 95546-05-31 12:00 G 36618669.98 36618670.00 36618670.04 0.0515 0.0506

Mars 95547-04-03 14:09 G 36618976.98 36618977.09 36618977.21 0.1584 0.0084

Earth 95547-12-24 00:14 G 36619241.42 36619241.51 36619241.61 0.2636 0.1310

Moon 95547-12-24 00:57 G 36619241.45 36619241.54 36619241.63 0.2635 0.1357 *

Mars 95549-03-08 15:21 G 36619682.14 36619682.14 36619682.15 0.1580 0.1573

Jupiter 95551-10-27 10:19 G 36620644.89 36620644.93 36620644.97 0.0513 0.0482

Mars 95551-12-17 12:28 G 36620695.99 36620696.02 36620696.06 0.1953 0.1898

Jupiter 95552-01-24 13:55 G 36620733.96 36620734.08 36620734.20 0.0511 0.0171

Mars 95556-08-24 01:55 G 36622407.47 36622407.58 36622407.70 0.1585 0.0293

Jupiter 95558-03-19 08:38 G 36622979.70 36622979.86 36622980.02 0.0514 0.0261

Mars 95558-07-30 03:07 G 36623112.55 36623112.63 36623112.70 0.1581 0.1206

Neptune 95559-10-09 10:19 G 36623548.90 36623548.93 36623548.98 0.0088 0.0083

Saturn 95559-11-27 01:55 G 36623597.41 36623597.58 36623597.76 0.0285 0.0115

Neptune 95560-01-05 11:45 G 36623636.93 36623636.99 36623637.05 0.0088 0.0076

Saturn 95560-02-24 02:52 G 36623686.44 36623686.62 36623686.80 0.0286 0.0099

Neptune 95560-04-02 12:57 G 36623724.96 36623725.04 36623725.12 0.0088 0.0069

Neptune 95560-06-29 13:55 G 36623813.00 36623813.08 36623813.19 0.0088 0.0063

Neptune 95560-09-25 15:21 G 36623901.05 36623901.14 36623901.25 0.0088 0.0055

Neptune 95560-12-22 16:33 G 36623989.09 36623989.19 36623989.31 0.0088 0.0049

Neptune 95561-03-20 17:45 G 36624077.14 36624077.24 36624077.37 0.0088 0.0042

Neptune 95561-06-16 19:12 G 36624165.18 36624165.30 36624165.43 0.0088 0.0034

Neptune 95561-09-12 20:24 G 36624253.23 36624253.35 36624253.48 0.0088 0.0028

Neptune 95561-12-09 21:36 G 36624341.28 36624341.40 36624341.54 0.0088 0.0021

Neptune 95562-03-07 23:02 G 36624429.33 36624429.46 36624429.59 0.0088 0.0013

Neptune 95562-06-04 00:14 G 36624517.38 36624517.51 36624517.65 0.0088 0.0007

Neptune 95562-08-31 01:40 G 36624605.43 36624605.57 36624605.70 0.0088 0.0003

Neptune 95562-11-27 02:52 G 36624693.49 36624693.62 36624693.75 0.0088 0.0008

Neptune 95563-02-23 04:04 G 36624781.54 36624781.67 36624781.80 0.0088 0.0015

Neptune 95563-05-22 05:16 G 36624869.60 36624869.72 36624869.85 0.0088 0.0022

Neptune 95563-08-18 06:43 G 36624957.65 36624957.78 36624957.90 0.0088 0.0029

Jupiter 95563-11-12 18:28 G 36625044.14 36625044.27 36625044.39 0.0512 0.0009

Neptune 95563-11-14 07:55 G 36625045.71 36625045.83 36625045.95 0.0088 0.0036

Neptune 95564-02-10 09:07 G 36625133.77 36625133.88 36625134.00 0.0088 0.0043

Neptune 95564-05-08 10:33 G 36625221.83 36625221.94 36625222.05 0.0088 0.0050

Neptune 95564-08-04 11:45 G 36625309.89 36625309.99 36625310.09 0.0088 0.0057

Neptune 95564-10-31 13:12 G 36625397.96 36625398.05 36625398.14 0.0088 0.0064

Neptune 95565-01-27 14:09 G 36625486.03 36625486.09 36625486.18 0.0088 0.0072

Neptune 95565-04-25 15:21 G 36625574.10 36625574.14 36625574.21 0.0088 0.0079

Neptune 95565-07-22 16:48 G 36625662.18 36625662.20 36625662.24 0.0088 0.0086

Mars 95566-01-14 13:55 G 36625837.97 36625838.08 36625838.18 0.1586 0.0649

Earth 95567-12-19 18:14 G 36626542.17 36626542.26 36626542.36 0.2638 0.1251

Moon 95567-12-19 18:28 G 36626542.18 36626542.27 36626542.37 0.2644 0.1234 *

Mars 95567-12-20 14:38 G 36626543.01 36626543.11 36626543.21 0.1581 0.0842

Jupiter 95570-01-05 05:02 G 36627289.52 36627289.71 36627289.89 0.0513 0.0019

Mars 95572-09-05 06:43 G 36628263.64 36628263.78 36628263.92 0.1957 0.1034

Saturn 95572-10-11 06:14 G 36628299.69 36628299.76 36628299.83 0.0279 0.0237

Saturn 95573-01-07 16:48 G 36628388.08 36628388.20 36628388.32 0.0278 0.0105

Saturn 95573-04-06 03:21 G 36628476.51 36628476.64 36628476.77 0.0277 0.0028

Saturn 95573-07-03 13:55 G 36628564.98 36628565.08 36628565.19 0.0275 0.0156

Mars 95575-06-07 01:40 G 36629268.48 36629268.57 36629268.66 0.1588 0.1013

Jupiter 95575-08-31 23:02 G 36629354.34 36629354.46 36629354.58 0.0513 0.0162

Jupiter 95575-11-29 02:52 G 36629443.59 36629443.62 36629443.65 0.0511 0.0491

Mars 95577-05-12 02:24 G 36629973.49 36629973.60 36629973.72 0.1582 0.0480

Venus 95579-01-13 00:57 G 36630584.53 36630584.54 36630584.55 0.3629 0.3608

Earth 95580-12-21 11:31 G 36631292.88 36631292.98 36631293.09 0.2637 0.0201

Moon 95580-12-21 12:14 G 36631292.90 36631293.01 36631293.12 0.2639 0.0272 *

Jupiter 95581-10-24 00:28 G 36631599.36 36631599.52 36631599.69 0.0513 0.0242

Mars 95582-01-25 22:19 G 36631693.26 36631693.43 36631693.59 0.1955 0.0380

Uranus 95582-03-02 18:00 G 36631729.25 36631729.25 36631729.28 0.0142 0.0142

Uranus 95582-05-29 21:36 G 36631817.34 36631817.40 36631817.47 0.0142 0.0120

Uranus 95582-08-26 01:12 G 36631905.46 36631905.55 36631905.64 0.0142 0.0099

Uranus 95582-11-22 04:33 G 36631993.58 36631993.69 36631993.80 0.0143 0.0077

Uranus 95583-02-18 08:09 G 36632081.72 36632081.84 36632081.96 0.0143 0.0056

Uranus 95583-05-17 11:31 G 36632169.85 36632169.98 36632170.11 0.0143 0.0034

Uranus 95583-08-13 14:52 G 36632257.99 36632258.12 36632258.26 0.0143 0.0014

Uranus 95583-11-09 18:28 G 36632346.14 36632346.27 36632346.40 0.0143 0.0009

Uranus 95584-02-05 21:50 G 36632434.29 36632434.41 36632434.54 0.0143 0.0031

Uranus 95584-05-04 01:26 G 36632522.44 36632522.56 36632522.68 0.0143 0.0052

Moon 95584-06-24 11:02 G 36632573.80 36632573.96 36632574.11 0.2697 0.0493

Earth 95584-06-24 12:43 G 36632573.87 36632574.03 36632574.18 0.2696 0.0642 *

Venus 95584-07-28 15:50 G 36632608.07 36632608.16 36632608.24 0.3628 0.1712

Uranus 95584-07-31 05:02 G 36632610.59 36632610.71 36632610.82 0.0143 0.0074

Uranus 95584-10-27 08:24 G 36632698.76 36632698.85 36632698.95 0.0143 0.0096

Mars 95584-10-27 13:26 G 36632699.00 36632699.06 36632699.12 0.1590 0.1373

Uranus 95585-01-23 12:00 G 36632786.93 36632787.00 36632787.07 0.0143 0.0118

Uranus 95585-04-21 15:21 G 36632875.13 36632875.14 36632875.17 0.0143 0.0140

Mars 95586-10-02 14:09 G 36633403.97 36633404.09 36633404.21 0.1583 0.0110

Jupiter 95587-06-20 04:04 G 36633664.57 36633664.67 36633664.77 0.0514 0.0321

Jupiter 95587-09-17 07:40 G 36633753.73 36633753.82 36633753.92 0.0512 0.0334

Saturn 95589-04-14 23:45 G 36634329.34 36634329.49 36634329.64 0.0285 0.0180

Saturn 95589-07-13 00:43 G 36634418.34 36634418.53 36634418.71 0.0286 0.0033

Saturn 95589-10-10 01:26 G 36634507.47 36634507.56 36634507.66 0.0287 0.0248

Venus 95590-02-11 06:28 G 36634631.67 36634631.77 36634631.87 0.3626 0.0227

Mars 95591-06-17 13:12 G 36635123.00 36635123.05 36635123.11 0.1952 0.1816

Venus 95592-11-19 03:50 G 36635643.59 36635643.66 36635643.72 0.3746 0.3435

Jupiter 95593-08-11 20:09 G 36635909.30 36635909.34 36635909.40 0.0512 0.0495

Earth 95593-12-24 05:02 G 36636043.62 36636043.71 36636043.80 0.2636 0.1602

Moon 95593-12-24 05:45 G 36636043.66 36636043.74 36636043.82 0.2634 0.1747 *

Pluto 95594-08-10 13:12 G 36636273.01 36636273.05 36636273.14 0.0061 0.0057

Pluto 95594-11-06 14:24 G 36636361.00 36636361.10 36636361.24 0.0061 0.0047

Pluto 95595-02-02 15:50 G 36636449.02 36636449.16 36636449.32 0.0061 0.0036

Pluto 95595-05-01 17:02 G 36636537.06 36636537.21 36636537.39 0.0061 0.0026

Pluto 95595-07-28 18:28 G 36636625.09 36636625.27 36636625.45 0.0061 0.0015

Venus 95595-08-27 21:21 G 36636655.31 36636655.39 36636655.47 0.3624 0.2094

Pluto 95595-10-24 19:40 G 36636713.14 36636713.32 36636713.51 0.0061 0.0005

Pluto 95596-01-20 20:52 G 36636801.19 36636801.37 36636801.56 0.0061 0.0006

Mars 95596-02-23 01:55 G 36636834.47 36636834.58 36636834.70 0.1585 0.0255

Pluto 95596-04-17 21:50 G 36636889.24 36636889.41 36636889.60 0.0061 0.0017

Pluto 95596-07-14 23:16 G 36636977.31 36636977.47 36636977.64 0.0061 0.0027

Pluto 95596-10-11 00:14 G 36637065.38 36637065.51 36637065.67 0.0061 0.0038

Pluto 95597-01-07 01:40 G 36637153.46 36637153.57 36637153.69 0.0062 0.0048

Pluto 95597-04-05 02:38 G 36637241.57 36637241.61 36637241.68 0.0062 0.0059

Mars 95598-01-28 02:52 G 36637539.55 36637539.62 36637539.70 0.1581 0.1243

Jupiter 95599-04-08 08:52 G 36637974.83 36637974.87 36637974.92 0.0514 0.0478

Jupiter 95599-07-06 12:43 G 36638063.91 36638064.03 36638064.15 0.0512 0.0176

Moon 95600-12-17 05:45 G 36638593.70 36638593.74 36638593.77 0.2645 0.2461

Earth 95600-12-17 05:45 G 36638593.70 36638593.74 36638593.79 0.2638 0.2375 *

Saturn 95602-02-28 08:38 G 36639031.85 36639031.86 36639031.86 0.0279 0.0279

Saturn 95602-05-27 19:12 G 36639120.19 36639120.30 36639120.41 0.0278 0.0146

Saturn 95602-08-24 05:45 G 36639208.61 36639208.74 36639208.87 0.0277 0.0016

Saturn 95602-11-20 16:19 G 36639297.07 36639297.18 36639297.30 0.0276 0.0116

Saturn 95603-02-17 02:52 G 36639385.57 36639385.62 36639385.68 0.0275 0.0245

Mars 95605-07-15 13:55 G 36640264.97 36640265.08 36640265.18 0.1586 0.0618

Jupiter 95605-08-29 06:00 G 36640309.59 36640309.75 36640309.92 0.0514 0.0256

Mars 95607-06-20 14:38 G 36640970.02 36640970.11 36640970.21 0.1581 0.0879

Jupiter 95611-04-24 17:31 G 36642374.11 36642374.23 36642374.36 0.0512 0.0023

Mars 95612-03-06 07:26 G 36642690.67 36642690.81 36642690.94 0.1958 0.1122

Earth 95613-12-19 23:02 G 36643344.36 36643344.46 36643344.56 0.2637 0.0967

Moon 95613-12-19 23:16 G 36643344.37 36643344.47 36643344.58 0.2643 0.0892 *

Mars 95614-12-06 01:40 G 36643695.48 36643695.57 36643695.66 0.1588 0.0976

Mars 95616-11-10 02:24 G 36644400.49 36644400.60 36644400.71 0.1582 0.0512

Jupiter 95617-06-17 02:24 G 36644619.41 36644619.60 36644619.79 0.0514 0.0010

Moon 95617-06-22 09:21 G 36644624.83 36644624.89 36644624.96 0.2694 0.2440

Earth 95617-06-22 11:16 G 36644624.88 36644624.97 36644625.07 0.2695 0.2146 *

Saturn 95618-09-01 22:19 G 36645061.33 36645061.43 36645061.54 0.0284 0.0235

Saturn 95618-11-29 23:16 G 36645150.28 36645150.47 36645150.66 0.0285 0.0023

Saturn 95619-02-27 00:00 G 36645239.36 36645239.50 36645239.64 0.0287 0.0191

Mars 95621-07-26 23:16 G 36646120.31 36646120.47 36646120.64 0.1955 0.0274

Jupiter 95623-02-10 22:04 G 36646684.30 36646684.42 36646684.54 0.0513 0.0154

Jupiter 95623-05-11 01:40 G 36646773.55 36646773.57 36646773.60 0.0511 0.0497

Uranus 95623-09-20 19:40 G 36646906.23 36646906.32 36646906.40 0.0136 0.0121

Uranus 95623-12-18 02:52 G 36646994.49 36646994.62 36646994.78 0.0136 0.0094

Uranus 95624-03-15 10:48 G 36647082.78 36647082.95 36647083.12 0.0136 0.0066

Mars 95624-04-27 13:26 G 36647126.00 36647126.06 36647126.12 0.1590 0.1336

Uranus 95624-06-11 18:14 G 36647171.08 36647171.26 36647171.45 0.0135 0.0038

Uranus 95624-09-08 01:55 G 36647259.38 36647259.58 36647259.77 0.0135 0.0011

Uranus 95624-12-05 09:21 G 36647347.70 36647347.89 36647348.08 0.0135 0.0017

Uranus 95625-03-03 16:48 G 36647436.02 36647436.20 36647436.38 0.0135 0.0044

Uranus 95625-05-31 00:14 G 36647524.35 36647524.51 36647524.68 0.0135 0.0072

Uranus 95625-08-27 07:40 G 36647612.69 36647612.82 36647612.95 0.0135 0.0099

Uranus 95625-11-23 15:07 G 36647701.06 36647701.13 36647701.20 0.0135 0.0126

Mars 95626-04-02 14:09 G 36647830.97 36647831.09 36647831.21 0.1583 0.0151

Earth 95626-12-22 16:19 G 36648095.08 36648095.18 36648095.29 0.2636 0.0466

Moon 95626-12-22 17:02 G 36648095.11 36648095.21 36648095.32 0.2638 0.0566 *

Jupiter 95629-04-04 22:33 G 36648929.28 36648929.44 36648929.61 0.0513 0.0237

Moon 95630-06-25 18:00 G 36649376.10 36649376.25 36649376.39 0.2699 0.1024

Earth 95630-06-25 19:26 G 36649376.17 36649376.31 36649376.45 0.2696 0.1276 *

Mars 95630-12-16 14:09 G 36649550.02 36649550.09 36649550.17 0.1953 0.1719

Saturn 95631-10-14 21:36 G 36649852.31 36649852.40 36649852.50 0.0279 0.0187

Saturn 95632-01-11 08:09 G 36649940.72 36649940.84 36649940.97 0.0278 0.0056

Saturn 95632-04-08 18:57 G 36650029.16 36650029.29 36650029.41 0.0276 0.0076

Saturn 95632-07-06 05:16 G 36650117.64 36650117.72 36650117.81 0.0275 0.0206

Jupiter 95634-11-30 02:38 G 36650994.51 36650994.61 36650994.71 0.0513 0.0320

Jupiter 95635-02-27 06:14 G 36651083.67 36651083.76 36651083.86 0.0511 0.0334

Venus 95635-08-19 22:04 G 36651257.37 36651257.42 36651257.48 0.3629 0.2933

Mars 95635-08-24 01:55 G 36651261.46 36651261.58 36651261.70 0.1585 0.0216

Mars 95637-07-29 03:07 G 36651966.56 36651966.63 36651966.69 0.1580 0.1284

Earth 95639-12-25 09:50 G 36652845.83 36652845.91 36652845.98 0.2635 0.1895

Moon 95639-12-25 10:19 G 36652845.86 36652845.93 36652846.01 0.2632 0.1954 *

Jupiter 95641-01-21 18:14 G 36653239.21 36653239.26 36653239.31 0.0512 0.0493

Venus 95641-03-04 12:57 G 36653280.95 36653281.04 36653281.14 0.3627 0.1023

Neptune 95643-06-22 18:28 G 36654121.22 36654121.27 36654121.35 0.0090 0.0084

Neptune 95643-09-18 22:04 G 36654209.33 36654209.42 36654209.55 0.0090 0.0073

Neptune 95643-12-16 01:55 G 36654297.46 36654297.58 36654297.74 0.0090 0.0062

Neptune 95644-03-13 05:45 G 36654385.59 36654385.74 36654385.92 0.0090 0.0051

Neptune 95644-06-09 09:36 G 36654473.74 36654473.90 36654474.09 0.0090 0.0040

Neptune 95644-09-05 13:26 G 36654561.88 36654562.06 36654562.25 0.0090 0.0028

Neptune 95644-12-02 17:16 G 36654650.03 36654650.22 36654650.42 0.0090 0.0017

Mars 95645-01-13 13:40 G 36654691.96 36654692.07 36654692.18 0.1586 0.0583

Neptune 95645-02-28 21:07 G 36654738.19 36654738.38 36654738.57 0.0090 0.0006

Neptune 95645-05-28 00:43 G 36654826.34 36654826.53 36654826.73 0.0090 0.0005

Neptune 95645-08-24 04:33 G 36654914.50 36654914.69 36654914.88 0.0090 0.0016

Neptune 95645-11-20 08:09 G 36655002.66 36655002.84 36655003.03 0.0090 0.0027

Neptune 95646-02-16 11:45 G 36655090.82 36655090.99 36655091.18 0.0090 0.0038

Neptune 95646-05-15 15:21 G 36655178.99 36655179.14 36655179.32 0.0090 0.0049

Neptune 95646-08-11 18:57 G 36655267.16 36655267.29 36655267.45 0.0090 0.0060

Venus 95646-09-18 03:50 G 36655304.56 36655304.66 36655304.75 0.3625 0.0880

Jupiter 95646-09-18 07:12 G 36655304.77 36655304.80 36655304.85 0.0514 0.0482

Neptune 95646-11-07 22:33 G 36655355.34 36655355.44 36655355.58 0.0090 0.0071

Jupiter 95646-12-16 11:02 G 36655393.84 36655393.96 36655394.08 0.0512 0.0173

Moon 95646-12-18 10:33 G 36655395.87 36655395.94 36655396.00 0.2645 0.2053

Earth 95646-12-18 10:33 G 36655395.87 36655395.94 36655396.00 0.2638 0.2091 *

Mars 95646-12-19 14:38 G 36655397.02 36655397.11 36655397.21 0.1581 0.0915

Neptune 95647-02-04 02:09 G 36655443.53 36655443.59 36655443.69 0.0090 0.0082

Saturn 95648-04-17 21:50 G 36655882.23 36655882.41 36655882.59 0.0285 0.0081

Saturn 95648-07-15 22:33 G 36655971.28 36655971.44 36655971.61 0.0287 0.0133

Venus 95649-06-26 07:12 G 36656316.64 36656316.80 36656316.96 0.3747 0.0557

Mars 95651-09-05 08:24 G 36657117.72 36657117.85 36657117.98 0.1958 0.1222

Venus 95652-04-02 18:28 G 36657328.21 36657328.27 36657328.34 0.3624 0.2776

Jupiter 95653-02-08 04:33 G 36657639.53 36657639.69 36657639.85 0.0514 0.0267

Mars 95654-06-06 01:40 G 36658122.47 36658122.57 36658122.66 0.1588 0.0943

Mars 95656-05-11 02:24 G 36658827.49 36658827.60 36658827.71 0.1582 0.0548

Jupiter 95658-10-04 16:04 G 36659704.04 36659704.17 36659704.30 0.0512 0.0016

Earth 95659-12-21 03:50 G 36660146.55 36660146.66 36660146.77 0.2637 0.0679

Moon 95659-12-21 04:19 G 36660146.57 36660146.68 36660146.79 0.2642 0.0658 *

Mars 95661-01-24 23:45 G 36660547.32 36660547.49 36660547.65 0.1956 0.0205

Saturn 95661-03-03 00:14 G 36660584.44 36660584.51 36660584.59 0.0279 0.0224

Saturn 95661-05-30 11:02 G 36660672.84 36660672.96 36660673.08 0.0278 0.0091

Saturn 95661-08-26 21:36 G 36660761.27 36660761.40 36660761.53 0.0277 0.0040

Saturn 95661-11-23 08:09 G 36660849.74 36660849.84 36660849.94 0.0276 0.0170

Moon 95663-06-23 16:19 G 36661427.05 36661427.18 36661427.30 0.2694 0.1715

Earth 95663-06-23 18:00 G 36661427.12 36661427.25 36661427.38 0.2695 0.1512 *

Mars 95663-10-27 13:26 G 36661552.99 36661553.06 36661553.12 0.1590 0.1304

Jupiter 95664-11-26 23:16 G 36661949.29 36661949.47 36661949.66 0.0514 0.0011

Mars 95665-10-01 14:09 G 36662257.97 36662258.09 36662258.21 0.1583 0.0185

Uranus 95666-03-23 01:40 G 36662430.54 36662430.57 36662430.61 0.0142 0.0135

Uranus 95666-06-19 05:02 G 36662518.64 36662518.71 36662518.79 0.0142 0.0114

Uranus 95666-09-15 08:38 G 36662606.76 36662606.86 36662606.96 0.0143 0.0093

Uranus 95666-12-12 12:00 G 36662694.89 36662695.00 36662695.12 0.0143 0.0071

Uranus 95667-03-10 15:36 G 36662783.03 36662783.15 36662783.27 0.0143 0.0050

Uranus 95667-06-06 18:57 G 36662871.16 36662871.29 36662871.42 0.0143 0.0028

Uranus 95667-09-02 22:33 G 36662959.31 36662959.44 36662959.57 0.0143 0.0007

Uranus 95667-11-30 01:55 G 36663047.45 36663047.58 36663047.71 0.0143 0.0016

Uranus 95668-02-26 05:31 G 36663135.60 36663135.73 36663135.86 0.0143 0.0037

Uranus 95668-05-24 08:52 G 36663223.76 36663223.87 36663223.99 0.0143 0.0059

Uranus 95668-08-20 12:28 G 36663311.91 36663312.02 36663312.13 0.0143 0.0081

Uranus 95668-11-16 15:50 G 36663400.08 36663400.16 36663400.26 0.0143 0.0103

Uranus 95669-02-12 19:26 G 36663488.25 36663488.31 36663488.38 0.0143 0.0125

Mars 95670-06-16 15:21 G 36663977.04 36663977.14 36663977.23 0.1953 0.1619

Jupiter 95670-07-23 20:52 G 36664014.25 36664014.37 36664014.49 0.0512 0.0144

Jupiter 95670-10-21 00:28 G 36664103.51 36664103.52 36664103.54 0.0511 0.0506

Earth 95672-12-22 21:07 G 36664897.28 36664897.38 36664897.49 0.2636 0.0750

Moon 95672-12-22 21:50 G 36664897.31 36664897.41 36664897.52 0.2638 0.0871 *

Mars 95675-02-22 01:55 G 36665688.46 36665688.58 36665688.70 0.1585 0.0180

Moon 95676-06-26 00:57 G 36666178.42 36666178.54 36666178.65 0.2701 0.1732

Earth 95676-06-26 02:09 G 36666178.48 36666178.59 36666178.70 0.2696 0.1912 *

Jupiter 95676-09-14 19:26 G 36666259.15 36666259.31 36666259.48 0.0513 0.0253

Mars 95677-01-27 02:52 G 36666393.56 36666393.62 36666393.69 0.1581 0.1322

Saturn 95677-09-04 21:07 G 36666614.22 36666614.38 36666614.55 0.0284 0.0131

Saturn 95677-12-02 22:04 G 36666703.24 36666703.42 36666703.60 0.0286 0.0082

Jupiter 95682-05-12 01:12 G 36668324.45 36668324.55 36668324.65 0.0513 0.0317

Jupiter 95682-08-09 04:48 G 36668413.61 36668413.70 36668413.80 0.0511 0.0335

Mars 95684-07-14 13:40 G 36669118.96 36669119.07 36669119.18 0.1586 0.0544

Earth 95685-12-25 14:38 G 36669648.05 36669648.11 36669648.17 0.2635 0.2185

Moon 95685-12-25 15:07 G 36669648.07 36669648.13 36669648.18 0.2630 0.2257 *

Mars 95686-06-19 14:38 G 36669824.02 36669824.11 36669824.21 0.1581 0.0954

Pluto 95687-12-01 02:09 G 36670353.54 36670353.59 36670353.67 0.0084 0.0073

Pluto 95688-02-27 03:36 G 36670441.55 36670441.65 36670441.77 0.0083 0.0053

Pluto 95688-05-25 05:02 G 36670529.59 36670529.71 36670529.84 0.0083 0.0033

Jupiter 95688-07-03 15:50 G 36670569.12 36670569.16 36670569.20 0.0512 0.0498

Pluto 95688-08-21 06:14 G 36670617.63 36670617.76 36670617.90 0.0083 0.0014

Pluto 95688-11-17 07:40 G 36670705.68 36670705.82 36670705.96 0.0083 0.0007

Pluto 95689-02-13 08:52 G 36670793.74 36670793.87 36670794.01 0.0083 0.0027

Pluto 95689-05-12 10:04 G 36670881.81 36670881.92 36670882.04 0.0083 0.0046

Pluto 95689-08-08 11:16 G 36670969.90 36670969.97 36670970.06 0.0083 0.0066

Saturn 95690-07-21 03:07 G 36671316.59 36671316.63 36671316.68 0.0280 0.0261

Saturn 95690-10-17 13:55 G 36671404.96 36671405.08 36671405.19 0.0278 0.0127

Saturn 95691-01-14 00:28 G 36671493.39 36671493.52 36671493.65 0.0277 0.0005

Mars 95691-03-06 09:07 G 36671544.76 36671544.88 36671545.00 0.1958 0.1309

Saturn 95691-04-12 11:02 G 36671581.85 36671581.96 36671582.07 0.0276 0.0135

Saturn 95691-07-09 21:36 G 36671670.37 36671670.40 36671670.43 0.0275 0.0264

Venus 95692-03-25 19:26 G 36671930.23 36671930.31 36671930.39 0.3628 0.2244

Moon 95692-12-18 15:21 G 36672198.06 36672198.14 36672198.21 0.2645 0.1874

Earth 95692-12-18 15:21 G 36672198.06 36672198.14 36672198.22 0.2638 0.1809 *

Mars 95693-12-05 01:26 G 36672549.47 36672549.56 36672549.66 0.1588 0.0908

Jupiter 95694-02-28 05:45 G 36672634.70 36672634.74 36672634.78 0.0514 0.0485

Jupiter 95694-05-28 09:21 G 36672723.78 36672723.89 36672724.01 0.0512 0.0170

Mars 95695-11-10 02:24 G 36673254.49 36673254.60 36673254.71 0.1582 0.0588

Venus 95697-10-09 10:19 G 36673953.83 36673953.93 36673954.03 0.3626 0.0380

Jupiter 95700-07-22 01:55 G 36674969.42 36674969.58 36674969.74 0.0514 0.0260

Mars 95700-07-27 00:57 G 36674974.37 36674974.54 36674974.70 0.1956 0.0094

Venus 95703-04-26 00:57 G 36675977.45 36675977.54 36675977.63 0.3625 0.1554

Mars 95703-04-28 13:26 G 36675979.99 36675980.06 36675980.13 0.1590 0.1269

Mars 95705-04-02 14:09 G 36676684.97 36676685.09 36676685.20 0.1583 0.0222

Earth 95705-12-22 08:38 G 36676948.75 36676948.86 36676948.97 0.2637 0.0394

Moon 95705-12-22 09:07 G 36676948.77 36676948.88 36676948.99 0.2641 0.0245 *

Venus 95706-02-01 10:48 G 36676989.82 36676989.95 36676990.08 0.3748 0.2335

Jupiter 95706-03-17 14:09 G 36677033.96 36677034.09 36677034.22 0.0512 0.0007

Saturn 95707-01-23 20:52 G 36677346.22 36677346.37 36677346.51 0.0285 0.0181

Saturn 95707-04-22 21:36 G 36677435.21 36677435.40 36677435.59 0.0286 0.0032

Saturn 95707-07-20 22:19 G 36677524.34 36677524.43 36677524.53 0.0287 0.0246

Uranus 95707-10-12 02:24 G 36677607.51 36677607.60 36677607.72 0.0136 0.0115

Uranus 95708-01-08 10:04 G 36677695.78 36677695.92 36677696.08 0.0135 0.0087

Uranus 95708-04-05 17:45 G 36677784.07 36677784.24 36677784.42 0.0135 0.0059

Uranus 95708-07-03 01:12 G 36677872.37 36677872.55 36677872.75 0.0135 0.0032

Uranus 95708-09-29 08:52 G 36677960.68 36677960.87 36677961.07 0.0135 0.0004

Venus 95708-11-08 15:50 G 36678001.13 36678001.16 36678001.19 0.3623 0.3454

Uranus 95708-12-26 16:19 G 36678048.99 36678049.18 36678049.38 0.0135 0.0024

Uranus 95709-03-24 23:45 G 36678137.32 36678137.49 36678137.68 0.0135 0.0051

Uranus 95709-06-21 07:12 G 36678225.65 36678225.80 36678225.96 0.0135 0.0079

Moon 95709-06-24 23:02 G 36678229.32 36678229.46 36678229.61 0.2695 0.1192

Earth 95709-06-25 00:57 G 36678229.39 36678229.54 36678229.69 0.2695 0.0866 *

Uranus 95709-09-17 14:52 G 36678314.00 36678314.12 36678314.24 0.0135 0.0106

Uranus 95709-12-14 22:19 G 36678402.39 36678402.43 36678402.46 0.0135 0.0133

Mars 95709-12-16 16:04 G 36678404.06 36678404.17 36678404.27 0.1953 0.1537

Jupiter 95712-05-09 21:36 G 36679279.21 36679279.40 36679279.58 0.0513 0.0007

Mars 95714-08-24 01:55 G 36680115.46 36680115.58 36680115.70 0.1585 0.0144

Mars 95716-07-29 02:52 G 36680820.56 36680820.62 36680820.68 0.1580 0.1357

Jupiter 95718-01-03 19:12 G 36681344.18 36681344.30 36681344.42 0.0513 0.0151

Jupiter 95718-04-02 22:48 G 36681433.43 36681433.45 36681433.48 0.0511 0.0500

Earth 95718-12-25 01:55 G 36681699.48 36681699.58 36681699.68 0.2636 0.1040

Moon 95718-12-25 02:38 G 36681699.51 36681699.61 36681699.71 0.2636 0.1101 *

Saturn 95720-03-06 16:48 G 36682137.10 36682137.20 36682137.31 0.0278 0.0161

Saturn 95720-06-03 03:36 G 36682225.52 36682225.65 36682225.78 0.0277 0.0029

Saturn 95720-08-30 14:09 G 36682313.97 36682314.09 36682314.21 0.0276 0.0102

Saturn 95720-11-27 00:43 G 36682402.46 36682402.53 36682402.60 0.0275 0.0232

Moon 95722-06-28 07:40 G 36682980.75 36682980.82 36682980.89 0.2702 0.2396

Earth 95722-06-28 08:52 G 36682980.82 36682980.87 36682980.92 0.2697 0.2541 *

Mars 95724-01-14 13:40 G 36683545.96 36683546.07 36683546.18 0.1586 0.0508

Jupiter 95724-02-26 16:04 G 36683589.01 36683589.17 36683589.33 0.0513 0.0273

Neptune 95724-04-09 08:52 G 36683631.86 36683631.87 36683631.90 0.0088 0.0087

Neptune 95724-07-06 10:04 G 36683719.88 36683719.92 36683719.98 0.0088 0.0080

Neptune 95724-10-02 11:31 G 36683807.91 36683807.98 36683808.05 0.0088 0.0073

Neptune 95724-12-29 12:43 G 36683895.95 36683896.03 36683896.12 0.0088 0.0066

Neptune 95725-03-27 13:55 G 36683983.99 36683984.08 36683984.18 0.0088 0.0059

Neptune 95725-06-23 15:21 G 36684072.03 36684072.14 36684072.24 0.0088 0.0052

Neptune 95725-09-19 16:33 G 36684160.08 36684160.19 36684160.30 0.0088 0.0045

Neptune 95725-12-16 17:45 G 36684248.12 36684248.24 36684248.36 0.0088 0.0038

Mars 95725-12-19 14:38 G 36684251.02 36684251.11 36684251.20 0.1581 0.0992

Neptune 95726-03-14 18:57 G 36684336.17 36684336.29 36684336.42 0.0088 0.0031

Neptune 95726-06-10 20:24 G 36684424.22 36684424.35 36684424.47 0.0088 0.0024

Neptune 95726-09-06 21:36 G 36684512.27 36684512.40 36684512.53 0.0088 0.0017

Neptune 95726-12-03 22:48 G 36684600.32 36684600.45 36684600.58 0.0088 0.0010

Neptune 95727-03-02 00:00 G 36684688.37 36684688.50 36684688.64 0.0088 0.0004

Neptune 95727-05-29 01:26 G 36684776.43 36684776.56 36684776.69 0.0088 0.0004

Neptune 95727-08-25 02:38 G 36684864.48 36684864.61 36684864.74 0.0088 0.0011

Neptune 95727-11-21 03:50 G 36684952.53 36684952.66 36684952.79 0.0088 0.0018

Neptune 95728-02-17 05:16 G 36685040.59 36685040.72 36685040.84 0.0088 0.0025

Neptune 95728-05-15 06:28 G 36685128.65 36685128.77 36685128.89 0.0088 0.0032

Neptune 95728-08-11 07:40 G 36685216.70 36685216.82 36685216.94 0.0088 0.0039

Neptune 95728-11-07 09:07 G 36685304.76 36685304.88 36685304.99 0.0088 0.0046

Neptune 95729-02-03 10:19 G 36685392.83 36685392.93 36685393.04 0.0088 0.0053

Neptune 95729-05-02 11:16 G 36685480.89 36685480.97 36685481.08 0.0088 0.0061

Neptune 95729-07-29 12:43 G 36685568.95 36685569.03 36685569.12 0.0088 0.0067

Jupiter 95729-10-23 00:00 G 36685654.40 36685654.50 36685654.60 0.0513 0.0312

Neptune 95729-10-25 13:55 G 36685657.02 36685657.08 36685657.16 0.0088 0.0075

Jupiter 95730-01-20 03:36 G 36685743.56 36685743.65 36685743.75 0.0511 0.0340

Neptune 95730-01-21 15:07 G 36685745.10 36685745.13 36685745.19 0.0088 0.0082

Mars 95730-09-05 10:04 G 36685971.81 36685971.92 36685972.03 0.1958 0.1410

Earth 95731-12-27 19:26 G 36686450.27 36686450.31 36686450.34 0.2635 0.2478

Moon 95731-12-27 19:55 G 36686450.30 36686450.33 36686450.35 0.2630 0.2556 *

Mars 95733-06-06 01:26 G 36686976.47 36686976.56 36686976.66 0.1588 0.0871

Mars 95735-05-12 02:24 G 36687681.49 36687681.60 36687681.71 0.1582 0.0624

Jupiter 95736-03-15 02:52 G 36687989.58 36687989.62 36687989.67 0.0514 0.0495

Saturn 95736-06-11 20:38 G 36688078.25 36688078.36 36688078.48 0.0284 0.0226

Saturn 95736-09-08 21:36 G 36688167.21 36688167.40 36688167.59 0.0285 0.0016

Saturn 95736-12-06 22:04 G 36688256.29 36688256.42 36688256.56 0.0286 0.0200

Moon 95738-12-20 20:09 G 36689000.25 36689000.34 36689000.43 0.2644 0.1457

Earth 95738-12-20 19:55 G 36689000.25 36689000.33 36689000.42 0.2638 0.1530 *

Mars 95740-01-26 01:55 G 36689401.41 36689401.58 36689401.74 0.1956 0.0047

Jupiter 95741-08-11 04:04 G 36689964.64 36689964.67 36689964.71 0.0514 0.0487

Jupiter 95741-11-08 07:55 G 36690053.71 36690053.83 36690053.95 0.0512 0.0165

Mars 95742-10-27 13:26 G 36690406.98 36690407.06 36690407.13 0.1590 0.1233

Venus 95743-04-18 01:55 G 36690579.55 36690579.58 36690579.60 0.3629 0.3464

Mars 95744-10-01 14:09 G 36691111.97 36691112.09 36691112.20 0.1583 0.0262

Jupiter 95748-01-01 23:02 G 36692299.30 36692299.46 36692299.63 0.0514 0.0250

Venus 95748-10-31 16:33 G 36692603.10 36692603.19 36692603.28 0.3628 0.1568

Mars 95749-06-16 16:48 G 36692831.09 36692831.20 36692831.31 0.1953 0.1439

Saturn 95749-07-24 19:55 G 36692869.24 36692869.33 36692869.43 0.0279 0.0193

Saturn 95749-10-21 06:43 G 36692957.65 36692957.78 36692957.91 0.0278 0.0060

Saturn 95750-01-17 17:16 G 36693046.09 36693046.22 36693046.35 0.0277 0.0071

Uranus 95750-04-13 08:52 G 36693131.83 36693131.87 36693131.94 0.0142 0.0130

Saturn 95750-04-16 03:50 G 36693134.57 36693134.66 36693134.75 0.0276 0.0200

Uranus 95750-07-10 12:28 G 36693219.94 36693220.02 36693220.11 0.0142 0.0108

Uranus 95750-10-06 16:04 G 36693308.07 36693308.17 36693308.28 0.0143 0.0086

Uranus 95751-01-02 19:26 G 36693396.20 36693396.31 36693396.43 0.0143 0.0065

Uranus 95751-03-31 23:02 G 36693484.34 36693484.46 36693484.59 0.0143 0.0043

Uranus 95751-06-28 02:38 G 36693572.48 36693572.61 36693572.74 0.0143 0.0022

Uranus 95751-09-24 06:00 G 36693660.62 36693660.75 36693660.88 0.0143 0.0002

Uranus 95751-12-21 09:36 G 36693748.77 36693748.90 36693749.03 0.0143 0.0022

Earth 95751-12-23 13:26 G 36693750.95 36693751.06 36693751.17 0.2637 0.0120

Moon 95751-12-23 13:55 G 36693750.97 36693751.08 36693751.19 0.2641 0.0098 *

Uranus 95752-03-18 12:57 G 36693836.92 36693837.04 36693837.17 0.0143 0.0044

Uranus 95752-06-14 16:33 G 36693925.07 36693925.19 36693925.31 0.0143 0.0066

Uranus 95752-09-10 19:55 G 36694013.23 36694013.33 36694013.44 0.0143 0.0088

Uranus 95752-12-07 23:31 G 36694101.40 36694101.48 36694101.57 0.0143 0.0110

Uranus 95753-03-06 02:52 G 36694189.58 36694189.62 36694189.68 0.0143 0.0132

Jupiter 95753-08-27 12:28 G 36694363.89 36694364.02 36694364.14 0.0512 0.0016

Mars 95754-02-22 01:55 G 36694542.46 36694542.58 36694542.70 0.1584 0.0110

Venus 95754-05-17 07:26 G 36694626.71 36694626.81 36694626.91 0.3626 0.0340

Moon 95755-06-26 06:00 G 36695031.59 36695031.75 36695031.91 0.2698 0.0344

Earth 95755-06-26 07:40 G 36695031.66 36695031.82 36695031.98 0.2696 0.0221 *

Mars 95756-01-28 02:52 G 36695247.57 36695247.62 36695247.68 0.1580 0.1401

Jupiter 95759-10-20 18:43 G 36696609.09 36696609.28 36696609.46 0.0513 0.0015

Venus 95759-11-30 22:19 G 36696650.35 36696650.43 36696650.51 0.3625 0.2239

Mars 95763-07-15 13:40 G 36697972.96 36697973.07 36697973.18 0.1586 0.0474

Earth 95764-12-25 06:43 G 36698501.69 36698501.78 36698501.88 0.2636 0.1327

Moon 95764-12-25 07:26 G 36698501.72 36698501.81 36698501.90 0.2634 0.1483 *

Jupiter 95765-06-15 17:02 G 36698674.09 36698674.21 36698674.33 0.0513 0.0167

Mars 95765-06-19 14:38 G 36698678.02 36698678.11 36698678.20 0.1581 0.1029

Jupiter 95765-09-12 20:38 G 36698763.33 36698763.36 36698763.40 0.0511 0.0485

Saturn 95765-10-29 20:38 G 36698810.31 36698810.36 36698810.41 0.0284 0.0273

Saturn 95766-01-26 21:21 G 36698899.21 36698899.39 36698899.58 0.0285 0.0062

Saturn 95766-04-25 22:04 G 36698988.27 36698988.42 36698988.59 0.0287 0.0152

Mars 95770-03-06 10:48 G 36700398.85 36700398.95 36700399.06 0.1958 0.1498

Jupiter 95771-08-08 13:55 G 36700918.92 36700919.08 36700919.24 0.0513 0.0271

Mars 95772-12-05 01:26 G 36701403.46 36701403.56 36701403.66 0.1588 0.0835

Mars 95774-11-10 02:24 G 36702108.49 36702108.60 36702108.70 0.1582 0.0662

Jupiter 95777-04-03 21:50 G 36702984.32 36702984.41 36702984.51 0.0513 0.0325

Jupiter 95777-07-02 01:40 G 36703073.47 36703073.57 36703073.67 0.0511 0.0328

Saturn 95778-12-11 23:16 G 36703601.40 36703601.47 36703601.55 0.0279 0.0222

Saturn 95779-03-10 10:04 G 36703689.80 36703689.92 36703690.04 0.0278 0.0089

Saturn 95779-06-06 20:38 G 36703778.23 36703778.36 36703778.49 0.0277 0.0042

Mars 95779-07-27 02:24 G 36703828.43 36703828.60 36703828.76 0.1956 0.0085

Saturn 95779-09-03 07:12 G 36703866.70 36703866.80 36703866.90 0.0276 0.0172

Mars 95782-04-27 13:12 G 36704833.98 36704834.05 36704834.13 0.1590 0.1200

Jupiter 95783-08-25 23:02 G 36705319.39 36705319.46 36705319.54 0.0514 0.0471

Mars 95784-04-01 14:09 G 36705538.97 36705539.09 36705539.20 0.1583 0.0301

Earth 95784-12-21 00:43 G 36705802.44 36705802.53 36705802.63 0.2638 0.1244

Moon 95784-12-21 01:12 G 36705802.45 36705802.55 36705802.64 0.2644 0.1226 *

Mars 95788-12-15 18:00 G 36707258.13 36707258.25 36707258.37 0.1953 0.1334

Jupiter 95789-01-21 02:38 G 36707294.58 36707294.61 36707294.65 0.0514 0.0486

Jupiter 95789-04-20 06:28 G 36707383.65 36707383.77 36707383.89 0.0512 0.0167

Uranus 95791-08-05 02:24 G 36708220.58 36708220.60 36708220.63 0.0135 0.0134

Mars 95791-09-18 01:12 G 36708264.53 36708264.55 36708264.57 0.1592 0.1559

Uranus 95791-11-01 09:50 G 36708308.80 36708308.91 36708309.04 0.0135 0.0106

Uranus 95792-01-28 17:31 G 36708397.08 36708397.23 36708397.40 0.0135 0.0078

Uranus 95792-04-26 01:12 G 36708485.37 36708485.55 36708485.73 0.0135 0.0051

Uranus 95792-07-23 08:38 G 36708573.67 36708573.86 36708574.06 0.0135 0.0024

Uranus 95792-10-19 16:19 G 36708661.99 36708662.18 36708662.38 0.0135 0.0004

Uranus 95793-01-15 23:45 G 36708750.30 36708750.49 36708750.68 0.0135 0.0032

Uranus 95793-04-14 07:12 G 36708838.63 36708838.80 36708838.98 0.0135 0.0059

Uranus 95793-07-11 14:38 G 36708926.96 36708927.11 36708927.26 0.0135 0.0086

Mars 95793-08-23 01:55 G 36708969.46 36708969.58 36708969.69 0.1584 0.0081

Uranus 95793-10-07 22:04 G 36709015.32 36709015.42 36709015.53 0.0135 0.0113

Jupiter 95795-06-13 19:12 G 36709629.13 36709629.30 36709629.47 0.0514 0.0220

Saturn 95795-06-15 21:36 G 36709631.22 36709631.40 36709631.58 0.0285 0.0104

Mars 95795-07-29 02:52 G 36709674.57 36709674.62 36709674.67 0.1580 0.1437

Saturn 95795-09-12 22:33 G 36709720.26 36709720.44 36709720.61 0.0286 0.0109

Earth 95797-12-23 18:14 G 36710553.15 36710553.26 36710553.37 0.2637 0.0201

Moon 95797-12-23 18:43 G 36710553.17 36710553.28 36710553.39 0.2640 0.0337 *

Venus 95799-11-22 23:02 G 36711252.40 36711252.46 36711252.53 0.3629 0.2777

Jupiter 95801-02-07 10:33 G 36711693.81 36711693.94 36711694.07 0.0512 0.0009

Moon 95801-06-27 12:57 G 36711833.88 36711834.04 36711834.20 0.2699 0.0088

Earth 95801-06-27 14:24 G 36711833.95 36711834.10 36711834.26 0.2696 0.0437 *

Mars 95803-01-14 13:40 G 36712399.96 36712400.07 36712400.18 0.1586 0.0433

Mars 95804-12-19 14:38 G 36713105.02 36713105.11 36713105.20 0.1581 0.1069

Venus 95805-06-08 13:55 G 36713275.98 36713276.08 36713276.18 0.3627 0.0873

Jupiter 95807-04-02 15:36 G 36713938.96 36713939.15 36713939.33 0.0513 0.0027

Neptune 95808-03-20 17:02 G 36714292.12 36714292.21 36714292.30 0.0090 0.0079

Saturn 95808-05-01 02:38 G 36714333.57 36714333.61 36714333.67 0.0279 0.0253

Neptune 95808-06-16 20:38 G 36714380.24 36714380.36 36714380.50 0.0090 0.0068

Saturn 95808-07-28 13:26 G 36714421.95 36714422.06 36714422.18 0.0278 0.0119

Neptune 95808-09-13 00:28 G 36714468.38 36714468.52 36714468.68 0.0090 0.0057

Saturn 95808-10-25 00:00 G 36714510.37 36714510.50 36714510.63 0.0277 0.0014

Neptune 95808-12-10 04:19 G 36714556.52 36714556.68 36714556.85 0.0090 0.0046

Saturn 95809-01-21 10:33 G 36714598.83 36714598.94 36714599.05 0.0276 0.0143

Neptune 95809-03-08 07:55 G 36714644.66 36714644.83 36714645.02 0.0090 0.0035

Saturn 95809-04-19 21:07 G 36714687.37 36714687.38 36714687.40 0.0275 0.0272

Neptune 95809-06-04 11:45 G 36714732.81 36714732.99 36714733.19 0.0090 0.0024

Neptune 95809-08-31 15:36 G 36714820.96 36714821.15 36714821.35 0.0090 0.0013

Mars 95809-09-05 11:45 G 36714825.90 36714825.99 36714826.08 0.1958 0.1596

Neptune 95809-11-27 19:26 G 36714909.12 36714909.31 36714909.51 0.0090 0.0002

Neptune 95810-02-23 23:02 G 36714997.27 36714997.46 36714997.66 0.0090 0.0010

Neptune 95810-05-23 02:52 G 36715085.43 36715085.62 36715085.81 0.0090 0.0021

Neptune 95810-08-19 06:28 G 36715173.60 36715173.77 36715173.96 0.0090 0.0032

Neptune 95810-11-15 10:04 G 36715261.76 36715261.92 36715262.10 0.0090 0.0043

Venus 95810-12-23 04:48 G 36715299.60 36715299.70 36715299.79 0.3626 0.1031

Earth 95810-12-27 11:31 G 36715303.89 36715303.98 36715304.06 0.2636 0.1618

Moon 95810-12-27 12:14 G 36715303.92 36715304.01 36715304.09 0.2632 0.1652 *

Neptune 95811-02-11 13:40 G 36715349.93 36715350.07 36715350.24 0.0090 0.0054

Neptune 95811-05-10 17:16 G 36715438.11 36715438.22 36715438.38 0.0090 0.0065

Neptune 95811-08-06 21:21 G 36715526.29 36715526.39 36715526.50 0.0090 0.0075

Neptune 95811-11-03 00:57 G 36715614.50 36715614.54 36715614.60 0.0090 0.0086

Mars 95812-06-06 01:26 G 36715830.46 36715830.56 36715830.66 0.1587 0.0801

Jupiter 95812-11-26 15:07 G 36716004.01 36716004.13 36716004.25 0.0513 0.0177

Jupiter 95813-02-23 18:43 G 36716093.24 36716093.28 36716093.33 0.0511 0.0474

Venus 95813-09-30 03:07 G 36716311.47 36716311.63 36716311.79 0.3747 0.1112

Mars 95814-05-12 02:24 G 36716535.49 36716535.60 36716535.70 0.1582 0.0702

Venus 95816-07-07 19:26 G 36717323.26 36717323.31 36717323.37 0.3624 0.2923

Moon 95817-12-20 12:00 G 36717853.96 36717854.00 36717854.05 0.2645 0.2401

Earth 95817-12-20 12:14 G 36717853.97 36717854.01 36717854.06 0.2639 0.2362 *

Jupiter 95819-01-19 11:02 G 36718248.80 36718248.96 36718249.11 0.0512 0.0285

Mars 95819-01-26 03:21 G 36718255.48 36718255.64 36718255.81 0.1956 0.0197

Mars 95821-10-27 13:12 G 36719260.98 36719261.05 36719261.13 0.1590 0.1164

Mars 95823-10-02 13:55 G 36719965.97 36719966.08 36719966.20 0.1583 0.0334

Jupiter 95824-09-14 19:40 G 36720314.23 36720314.32 36720314.41 0.0514 0.0343

Saturn 95824-11-02 21:50 G 36720363.25 36720363.41 36720363.57 0.0285 0.0150

Jupiter 95824-12-12 23:16 G 36720403.38 36720403.47 36720403.58 0.0512 0.0311

Saturn 95825-01-30 22:33 G 36720452.26 36720452.44 36720452.63 0.0286 0.0064

Saturn 95825-04-29 23:16 G 36720541.44 36720541.47 36720541.52 0.0287 0.0279

Mars 95828-06-16 18:43 G 36721685.15 36721685.28 36721685.40 0.1953 0.1257

Earth 95830-12-23 05:31 G 36722604.63 36722604.73 36722604.84 0.2638 0.0954

Moon 95830-12-23 06:00 G 36722604.65 36722604.75 36722604.85 0.2644 0.0869 *

Jupiter 95831-02-05 20:52 G 36722649.30 36722649.37 36722649.45 0.0514 0.0469

Mars 95831-03-20 01:12 G 36722691.52 36722691.55 36722691.58 0.1592 0.1528

Mars 95833-02-22 01:55 G 36723396.46 36723396.58 36723396.69 0.1584 0.0066

Uranus 95834-05-04 16:04 G 36723833.12 36723833.17 36723833.25 0.0143 0.0125

Earth 95834-06-25 12:57 G 36723884.97 36723885.04 36723885.11 0.2694 0.2384

Uranus 95834-07-31 19:40 G 36723921.24 36723921.32 36723921.42 0.0143 0.0103

Uranus 95834-10-27 23:16 G 36724009.36 36724009.47 36724009.58 0.0143 0.0081

Uranus 95835-01-24 02:38 G 36724097.50 36724097.61 36724097.74 0.0143 0.0060

Mars 95835-01-28 02:52 G 36724101.58 36724101.62 36724101.66 0.1580 0.1473

Uranus 95835-04-22 06:14 G 36724185.63 36724185.76 36724185.89 0.0143 0.0038

Uranus 95835-07-19 09:50 G 36724273.78 36724273.91 36724274.04 0.0143 0.0017

Uranus 95835-10-15 13:12 G 36724361.92 36724362.05 36724362.18 0.0143 0.0006

Uranus 95836-01-11 16:48 G 36724450.07 36724450.20 36724450.33 0.0143 0.0027

Uranus 95836-04-08 20:09 G 36724538.22 36724538.34 36724538.47 0.0143 0.0049

Jupiter 95836-07-04 00:28 G 36724624.50 36724624.52 36724624.55 0.0514 0.0502

Uranus 95836-07-05 23:45 G 36724626.38 36724626.49 36724626.61 0.0143 0.0071

Jupiter 95836-10-01 04:19 G 36724713.56 36724713.68 36724713.80 0.0512 0.0153

Uranus 95836-10-02 03:21 G 36724714.54 36724714.64 36724714.74 0.0143 0.0093

Uranus 95836-12-29 06:43 G 36724802.71 36724802.78 36724802.86 0.0143 0.0115

Uranus 95837-03-27 10:19 G 36724890.90 36724890.93 36724890.97 0.0143 0.0137

Saturn 95837-12-15 16:48 G 36725154.10 36725154.20 36725154.32 0.0278 0.0148

Saturn 95838-03-14 03:36 G 36725242.52 36725242.65 36725242.78 0.0277 0.0015

Saturn 95838-06-10 14:09 G 36725330.97 36725331.09 36725331.21 0.0276 0.0116

Saturn 95838-09-07 00:28 G 36725419.47 36725419.52 36725419.59 0.0275 0.0245

Pluto 95840-07-08 02:52 G 36726089.55 36726089.62 36726089.71 0.0061 0.0054

Pluto 95840-10-04 03:50 G 36726177.55 36726177.66 36726177.81 0.0061 0.0044

Pluto 95840-12-31 05:31 G 36726265.57 36726265.73 36726265.88 0.0061 0.0033

Pluto 95841-03-29 06:28 G 36726353.61 36726353.77 36726353.95 0.0061 0.0023

Pluto 95841-06-25 07:55 G 36726441.65 36726441.83 36726442.01 0.0061 0.0013

Pluto 95841-09-21 09:07 G 36726529.69 36726529.88 36726530.07 0.0061 0.0002

Pluto 95841-12-18 10:19 G 36726617.75 36726617.93 36726618.11 0.0061 0.0008

Pluto 95842-03-16 11:16 G 36726705.80 36726705.97 36726706.16 0.0061 0.0019

Pluto 95842-06-12 12:28 G 36726793.87 36726794.02 36726794.19 0.0061 0.0030

Mars 95842-07-15 13:40 G 36726826.95 36726827.07 36726827.18 0.1586 0.0401

Pluto 95842-09-08 13:26 G 36726881.94 36726882.06 36726882.22 0.0061 0.0041

Jupiter 95842-11-24 15:21 G 36726958.97 36726959.14 36726959.32 0.0513 0.0196

Pluto 95842-12-05 14:52 G 36726970.03 36726970.12 36726970.24 0.0062 0.0051

Pluto 95843-03-03 16:04 G 36727058.17 36727058.17 36727058.20 0.0062 0.0061

Earth 95843-12-25 23:02 G 36727355.35 36727355.46 36727355.56 0.2637 0.0485

Moon 95843-12-25 23:31 G 36727355.38 36727355.48 36727355.59 0.2638 0.0531 *

Mars 95844-06-19 14:38 G 36727532.03 36727532.11 36727532.19 0.1581 0.1107

Moon 95847-06-28 19:40 G 36728636.17 36728636.32 36728636.47 0.2699 0.0965

Earth 95847-06-28 21:21 G 36728636.24 36728636.39 36728636.53 0.2696 0.1072 *

Jupiter 95848-07-20 09:07 G 36729023.76 36729023.88 36729024.01 0.0513 0.0012

Mars 95849-03-06 12:28 G 36729252.94 36729253.02 36729253.10 0.1959 0.1691

Mars 95851-12-06 01:26 G 36730257.46 36730257.56 36730257.66 0.1588 0.0762

Mars 95853-11-10 02:24 G 36730962.49 36730962.60 36730962.70 0.1582 0.0740

Saturn 95854-03-22 21:36 G 36731095.27 36731095.40 36731095.54 0.0284 0.0195

Saturn 95854-06-19 22:33 G 36731184.25 36731184.44 36731184.63 0.0285 0.0018

Jupiter 95854-09-12 11:31 G 36731268.79 36731268.98 36731269.16 0.0513 0.0057

Saturn 95854-09-16 23:16 G 36731273.37 36731273.47 36731273.58 0.0287 0.0232

Venus 95856-06-29 20:24 G 36731925.27 36731925.35 36731925.43 0.3628 0.2087

Earth 95856-12-27 16:19 G 36732106.10 36732106.18 36732106.25 0.2636 0.1908

Moon 95856-12-27 16:48 G 36732106.14 36732106.20 36732106.27 0.2632 0.2066 *

Mars 95858-07-27 04:33 G 36732682.52 36732682.69 36732682.85 0.1956 0.0294

Jupiter 95860-05-08 13:12 G 36733333.94 36733334.05 36733334.17 0.0513 0.0185

Jupiter 95860-08-05 17:02 G 36733423.16 36733423.21 36733423.26 0.0511 0.0466

Mars 95861-04-27 13:12 G 36733687.97 36733688.05 36733688.13 0.1589 0.1127

Venus 95862-01-13 11:16 G 36733948.87 36733948.97 36733949.07 0.3627 0.0235

Mars 95863-04-02 13:55 G 36734392.97 36734393.08 36734393.20 0.1583 0.0375

Moon 95863-12-21 17:02 G 36734656.15 36734656.21 36734656.27 0.2645 0.2114

Earth 95863-12-21 17:02 G 36734656.15 36734656.21 36734656.28 0.2639 0.2080 *

Jupiter 95866-07-01 07:40 G 36735578.67 36735578.82 36735578.98 0.0513 0.0301

Saturn 95867-05-04 20:38 G 36735886.26 36735886.36 36735886.46 0.0279 0.0175

Venus 95867-07-30 01:55 G 36735972.49 36735972.58 36735972.67 0.3625 0.1705

Saturn 95867-08-01 07:12 G 36735974.67 36735974.80 36735974.93 0.0278 0.0043

Saturn 95867-10-28 17:45 G 36736063.11 36736063.24 36736063.36 0.0276 0.0088

Mars 95867-12-16 19:26 G 36736112.18 36736112.31 36736112.45 0.1954 0.1156

Saturn 95868-01-25 04:19 G 36736151.60 36736151.68 36736151.75 0.0275 0.0218

Venus 95870-05-07 06:43 G 36736984.63 36736984.78 36736984.92 0.3747 0.1783

Mars 95870-09-18 00:57 G 36737118.51 36737118.54 36737118.58 0.1592 0.1494

Jupiter 95872-02-25 17:45 G 36737644.15 36737644.24 36737644.33 0.0513 0.0352

Jupiter 95872-05-24 21:21 G 36737733.29 36737733.39 36737733.50 0.0511 0.0300

Mars 95872-08-23 01:40 G 36737823.46 36737823.57 36737823.69 0.1584 0.0057

Venus 95873-02-11 16:48 G 36737996.19 36737996.20 36737996.21 0.3624 0.3597

Mars 95874-07-29 02:52 G 36738528.59 36738528.62 36738528.65 0.1580 0.1516

Uranus 95875-08-26 10:04 G 36738921.85 36738921.92 36738922.00 0.0135 0.0124

Uranus 95875-11-22 17:45 G 36739010.11 36739010.24 36739010.38 0.0135 0.0097

Uranus 95876-02-19 01:12 G 36739098.39 36739098.55 36739098.73 0.0135 0.0069

Uranus 95876-05-17 08:52 G 36739186.69 36739186.87 36739187.06 0.0135 0.0041

Uranus 95876-08-13 16:33 G 36739274.99 36739275.19 36739275.38 0.0135 0.0014

Uranus 95876-11-10 00:00 G 36739363.31 36739363.50 36739363.70 0.0135 0.0014

Earth 95876-12-23 10:19 G 36739406.83 36739406.93 36739407.04 0.2638 0.0665

Moon 95876-12-23 10:48 G 36739406.84 36739406.95 36739407.06 0.2643 0.0607 *

Uranus 95877-02-06 07:26 G 36739451.63 36739451.81 36739452.00 0.0135 0.0041

Uranus 95877-05-05 14:52 G 36739539.96 36739540.12 36739540.29 0.0135 0.0068

Uranus 95877-08-01 22:19 G 36739628.30 36739628.43 36739628.57 0.0135 0.0095

Uranus 95877-10-29 05:45 G 36739716.66 36739716.74 36739716.82 0.0135 0.0122

Jupiter 95878-07-18 18:00 G 36739979.17 36739979.25 36739979.33 0.0514 0.0458

Moon 95880-06-25 18:00 G 36740687.15 36740687.25 36740687.36 0.2696 0.1952

Earth 95880-06-25 19:55 G 36740687.21 36740687.33 36740687.45 0.2695 0.1730 *

Mars 95882-01-13 13:26 G 36741253.95 36741254.06 36741254.18 0.1586 0.0369

Saturn 95883-08-09 21:36 G 36741827.30 36741827.40 36741827.50 0.0284 0.0243

Saturn 95883-11-06 22:33 G 36741916.25 36741916.44 36741916.63 0.0286 0.0030

Mars 95883-12-19 14:38 G 36741959.03 36741959.11 36741959.19 0.1581 0.1145

Saturn 95884-02-03 23:16 G 36742005.33 36742005.47 36742005.62 0.0287 0.0185

Jupiter 95884-03-13 02:09 G 36742043.46 36742043.59 36742043.71 0.0512 0.0135

Mars 95888-09-04 13:26 G 36743680.00 36743680.06 36743680.13 0.1958 0.1786

Neptune 95889-01-05 08:38 G 36743802.83 36743802.86 36743802.90 0.0088 0.0084

Neptune 95889-04-03 09:50 G 36743890.86 36743890.91 36743890.98 0.0088 0.0077

Neptune 95889-06-30 11:02 G 36743978.89 36743978.96 36743979.05 0.0088 0.0070

Neptune 95889-09-26 12:28 G 36744066.93 36744067.02 36744067.11 0.0088 0.0063

Neptune 95889-12-23 13:40 G 36744154.97 36744155.07 36744155.17 0.0088 0.0056

Earth 95889-12-26 03:36 G 36744157.55 36744157.65 36744157.76 0.2637 0.0770

Moon 95889-12-26 04:19 G 36744157.58 36744157.68 36744157.79 0.2636 0.0903 *

Neptune 95890-03-21 14:52 G 36744243.02 36744243.12 36744243.23 0.0088 0.0049

Jupiter 95890-05-06 13:26 G 36744288.89 36744289.06 36744289.23 0.0513 0.0197

Neptune 95890-06-17 16:19 G 36744331.06 36744331.18 36744331.29 0.0088 0.0042

Neptune 95890-09-13 17:31 G 36744419.11 36744419.23 36744419.35 0.0088 0.0035

Neptune 95890-12-10 18:28 G 36744507.16 36744507.27 36744507.41 0.0088 0.0029

Neptune 95891-03-08 19:55 G 36744595.20 36744595.33 36744595.46 0.0088 0.0021

Neptune 95891-06-04 21:07 G 36744683.26 36744683.38 36744683.52 0.0088 0.0015

Mars 95891-06-06 01:26 G 36744684.45 36744684.56 36744684.66 0.1587 0.0728

Neptune 95891-08-31 22:33 G 36744771.31 36744771.44 36744771.57 0.0088 0.0007

Neptune 95891-11-27 23:45 G 36744859.36 36744859.49 36744859.62 0.0088 0.0001

Neptune 95892-02-24 00:57 G 36744947.41 36744947.54 36744947.68 0.0088 0.0007

Neptune 95892-05-22 02:09 G 36745035.46 36745035.59 36745035.73 0.0088 0.0014

Neptune 95892-08-18 03:36 G 36745123.52 36745123.65 36745123.78 0.0088 0.0021

Neptune 95892-11-14 04:48 G 36745211.58 36745211.70 36745211.83 0.0088 0.0028

Neptune 95893-02-10 06:00 G 36745299.63 36745299.75 36745299.88 0.0088 0.0035

Neptune 95893-05-09 07:12 G 36745387.69 36745387.80 36745387.92 0.0088 0.0042

Mars 95893-05-11 02:09 G 36745389.49 36745389.59 36745389.70 0.1582 0.0776

Moon 95893-06-29 02:38 G 36745438.48 36745438.61 36745438.74 0.2700 0.1400

Earth 95893-06-29 04:04 G 36745438.55 36745438.67 36745438.79 0.2696 0.1714 *

Neptune 95893-08-05 08:38 G 36745475.75 36745475.86 36745475.97 0.0088 0.0049

Neptune 95893-11-01 09:50 G 36745563.81 36745563.91 36745564.02 0.0088 0.0056

Neptune 95894-01-28 11:02 G 36745651.88 36745651.96 36745652.06 0.0088 0.0063

Neptune 95894-04-26 12:28 G 36745739.94 36745740.02 36745740.10 0.0088 0.0070

Neptune 95894-07-23 13:40 G 36745828.01 36745828.07 36745828.14 0.0088 0.0077

Neptune 95894-10-19 15:07 G 36745916.09 36745916.13 36745916.16 0.0088 0.0084

Jupiter 95895-12-31 06:57 G 36746353.67 36746353.79 36746353.92 0.0513 0.0025

Saturn 95896-09-21 00:00 G 36746618.41 36746618.50 36746618.59 0.0278 0.0202

Saturn 95896-12-18 10:33 G 36746706.82 36746706.94 36746707.07 0.0277 0.0070

Saturn 95897-03-16 21:07 G 36746795.26 36746795.38 36746795.51 0.0276 0.0061

Saturn 95897-06-13 07:40 G 36746883.73 36746883.82 36746883.91 0.0275 0.0190

Mars 95898-01-25 04:48 G 36747109.54 36747109.70 36747109.87 0.1956 0.0368

Mars 95900-10-27 13:12 G 36748114.97 36748115.05 36748115.13 0.1589 0.1092

Jupiter 95902-02-23 07:55 G 36748598.65 36748598.83 36748599.02 0.0513 0.0076

Mars 95902-10-02 13:55 G 36748819.97 36748820.08 36748820.20 0.1583 0.0410

Earth 95902-12-29 21:07 G 36748908.32 36748908.38 36748908.43 0.2636 0.2205

Moon 95902-12-29 21:36 G 36748908.34 36748908.40 36748908.46 0.2632 0.2228 *

Mars 95907-06-17 20:38 G 36750539.22 36750539.36 36750539.50 0.1954 0.1050

Venus 95907-07-23 02:52 G 36750574.58 36750574.62 36750574.66 0.3630 0.3305

Jupiter 95907-10-20 11:45 G 36750663.87 36750663.99 36750664.11 0.0513 0.0184

Jupiter 95908-01-17 15:36 G 36750753.10 36750753.15 36750753.20 0.0511 0.0467

Moon 95909-12-22 21:50 G 36751458.33 36751458.41 36751458.50 0.2645 0.1743

Earth 95909-12-22 21:50 G 36751458.33 36751458.41 36751458.49 0.2639 0.1796 *

Mars 95910-03-20 00:57 G 36751545.50 36751545.54 36751545.59 0.1591 0.1456

Mars 95912-02-23 01:40 G 36752250.46 36752250.57 36752250.69 0.1584 0.0061

Venus 95913-02-04 17:31 G 36752598.14 36752598.23 36752598.33 0.3628 0.1411

Saturn 95913-03-26 22:04 G 36752648.24 36752648.42 36752648.60 0.0285 0.0078

Saturn 95913-06-23 23:02 G 36752737.29 36752737.46 36752737.62 0.0286 0.0136

Jupiter 95913-12-12 03:50 G 36752908.52 36752908.66 36752908.81 0.0512 0.0327

Mars 95914-01-28 02:52 G 36752955.60 36752955.62 36752955.64 0.1580 0.1554

Uranus 95918-02-26 19:55 G 36754446.32 36754446.33 36754446.34 0.0142 0.0142

Uranus 95918-05-25 23:16 G 36754534.41 36754534.47 36754534.54 0.0143 0.0120

Venus 95918-08-21 08:24 G 36754621.75 36754621.85 36754621.95 0.3626 0.0486

Uranus 95918-08-22 02:52 G 36754622.53 36754622.62 36754622.71 0.0143 0.0099

Uranus 95918-11-18 06:14 G 36754710.65 36754710.76 36754710.87 0.0143 0.0077

Uranus 95919-02-14 09:50 G 36754798.79 36754798.91 36754799.03 0.0143 0.0056

Uranus 95919-05-13 13:12 G 36754886.93 36754887.05 36754887.18 0.0143 0.0034

Jupiter 95919-08-08 15:50 G 36754974.08 36754974.16 36754974.25 0.0513 0.0360

Uranus 95919-08-09 16:48 G 36754975.07 36754975.20 36754975.33 0.0143 0.0012

Uranus 95919-11-05 20:09 G 36755063.21 36755063.34 36755063.48 0.0143 0.0010

Jupiter 95919-11-05 19:40 G 36755063.22 36755063.32 36755063.42 0.0511 0.0292 *

Uranus 95920-02-01 23:45 G 36755151.36 36755151.49 36755151.62 0.0143 0.0031

Uranus 95920-04-30 03:21 G 36755239.52 36755239.64 36755239.76 0.0143 0.0053

Uranus 95920-07-27 06:43 G 36755327.67 36755327.78 36755327.90 0.0143 0.0075

Uranus 95920-10-23 10:19 G 36755415.84 36755415.93 36755416.03 0.0143 0.0097

Uranus 95921-01-19 13:40 G 36755504.01 36755504.07 36755504.15 0.0143 0.0119

Uranus 95921-04-17 17:16 G 36755592.21 36755592.22 36755592.25 0.0143 0.0141

Mars 95921-07-15 13:40 G 36755680.95 36755681.07 36755681.18 0.1586 0.0329

Earth 95922-12-25 15:07 G 36756209.02 36756209.13 36756209.24 0.2637 0.0376

Moon 95922-12-25 15:36 G 36756209.04 36756209.15 36756209.26 0.2642 0.0315 *

Mars 95923-06-20 14:38 G 36756386.03 36756386.11 36756386.18 0.1581 0.1185

Venus 95924-03-05 23:16 G 36756645.39 36756645.47 36756645.54 0.3625 0.2385

Jupiter 95925-12-29 15:07 G 36757309.04 36757309.13 36757309.22 0.0514 0.0446

Saturn 95926-02-09 03:21 G 36757350.58 36757350.64 36757350.72 0.0279 0.0232

Saturn 95926-05-08 14:09 G 36757438.97 36757439.09 36757439.21 0.0278 0.0099

Moon 95926-06-28 00:57 G 36757489.40 36757489.54 36757489.67 0.2696 0.1348

Earth 95926-06-28 02:38 G 36757489.47 36757489.61 36757489.76 0.2695 0.1082 *

Saturn 95926-08-05 00:43 G 36757527.40 36757527.53 36757527.66 0.0277 0.0032

Saturn 95926-11-01 11:02 G 36757615.86 36757615.96 36757616.07 0.0276 0.0163

Mars 95928-03-06 14:09 G 36758107.05 36758107.09 36758107.13 0.1958 0.1876

Mars 95930-12-06 01:12 G 36759111.45 36759111.55 36759111.66 0.1587 0.0694

Jupiter 95931-08-25 00:14 G 36759373.39 36759373.51 36759373.63 0.0512 0.0126

Mars 95932-11-10 02:09 G 36759816.49 36759816.59 36759816.69 0.1582 0.0818

Pluto 95933-10-29 17:16 G 36760170.16 36760170.22 36760170.28 0.0084 0.0074

Pluto 95934-01-25 18:14 G 36760258.17 36760258.26 36760258.38 0.0083 0.0055

Pluto 95934-04-23 19:40 G 36760346.20 36760346.32 36760346.45 0.0083 0.0034

Pluto 95934-07-20 21:07 G 36760434.24 36760434.38 36760434.52 0.0083 0.0014

Pluto 95934-10-16 22:19 G 36760522.30 36760522.43 36760522.57 0.0083 0.0006

Pluto 95935-01-12 23:31 G 36760610.35 36760610.48 36760610.62 0.0083 0.0025

Pluto 95935-04-11 00:57 G 36760698.42 36760698.54 36760698.65 0.0083 0.0044

Pluto 95935-07-08 01:55 G 36760786.50 36760786.58 36760786.68 0.0083 0.0064

Earth 95935-12-28 08:24 G 36760959.75 36760959.85 36760959.95 0.2636 0.1056

Moon 95935-12-28 09:07 G 36760959.78 36760959.88 36760959.98 0.2636 0.1152 *

Mars 95937-07-27 06:00 G 36761536.59 36761536.75 36761536.92 0.1957 0.0482

Jupiter 95937-10-17 10:48 G 36761618.78 36761618.95 36761619.12 0.0513 0.0191

Moon 95939-07-01 09:36 G 36762240.82 36762240.90 36762240.99 0.2701 0.2271

Earth 95939-07-01 11:02 G 36762240.88 36762240.96 36762241.03 0.2696 0.2358 *

Mars 95940-04-27 13:12 G 36762541.96 36762542.05 36762542.14 0.1589 0.1057

Mars 95942-04-02 13:55 G 36763246.97 36763247.08 36763247.19 0.1583 0.0444

Saturn 95942-08-13 21:07 G 36763380.21 36763380.38 36763380.55 0.0285 0.0133

Saturn 95942-11-10 22:04 G 36763469.24 36763469.42 36763469.60 0.0286 0.0082

Jupiter 95943-06-13 04:48 G 36763683.57 36763683.70 36763683.83 0.0513 0.0040

Mars 95946-12-16 21:21 G 36764966.24 36764966.39 36764966.53 0.1954 0.0972

Earth 95948-12-30 01:55 G 36765710.54 36765710.58 36765710.61 0.2635 0.2501

Moon 95948-12-30 02:09 G 36765710.58 36765710.59 36765710.61 0.2631 0.2600 *

Jupiter 95949-08-05 06:14 G 36765928.57 36765928.76 36765928.94 0.0513 0.0069

Mars 95949-09-18 00:57 G 36765972.49 36765972.54 36765972.59 0.1592 0.1422

Mars 95951-08-24 01:40 G 36766677.45 36766677.57 36766677.69 0.1584 0.0085

Jupiter 95955-04-01 09:50 G 36767993.79 36767993.91 36767994.02 0.0513 0.0199

Saturn 95955-06-29 06:57 G 36768082.74 36768082.79 36768082.83 0.0279 0.0261

Jupiter 95955-06-29 13:26 G 36768083.01 36768083.06 36768083.12 0.0511 0.0455

Saturn 95955-09-25 17:31 G 36768171.11 36768171.23 36768171.34 0.0278 0.0128

Saturn 95955-12-23 04:04 G 36768259.54 36768259.67 36768259.80 0.0277 0.0004

Earth 95955-12-24 02:38 G 36768260.52 36768260.61 36768260.70 0.2638 0.1510

Moon 95955-12-24 02:52 G 36768260.53 36768260.62 36768260.70 0.2645 0.1549 *

Saturn 95956-03-20 14:38 G 36768348.00 36768348.11 36768348.22 0.0275 0.0133

Saturn 95956-06-17 00:57 G 36768436.51 36768436.54 36768436.58 0.0274 0.0262

Uranus 95959-09-16 17:45 G 36769623.14 36769623.24 36769623.34 0.0135 0.0116

Uranus 95959-12-14 01:12 G 36769711.41 36769711.55 36769711.70 0.0135 0.0088

Uranus 95960-03-11 08:52 G 36769799.70 36769799.87 36769800.05 0.0135 0.0060

Uranus 95960-06-07 16:19 G 36769888.00 36769888.18 36769888.38 0.0135 0.0033

Uranus 95960-09-04 00:00 G 36769976.31 36769976.50 36769976.70 0.0135 0.0005

Uranus 95960-12-01 07:26 G 36770064.62 36770064.81 36770065.01 0.0135 0.0022

Mars 95961-01-13 13:26 G 36770107.95 36770108.06 36770108.18 0.1586 0.0291

Uranus 95961-02-27 14:52 G 36770152.94 36770153.12 36770153.31 0.0135 0.0049

Jupiter 95961-05-24 00:57 G 36770238.40 36770238.54 36770238.68 0.0512 0.0338

Uranus 95961-05-26 22:04 G 36770241.28 36770241.42 36770241.60 0.0135 0.0077

Uranus 95961-08-23 05:31 G 36770329.62 36770329.73 36770329.87 0.0135 0.0104

Uranus 95961-11-19 12:57 G 36770418.01 36770418.04 36770418.10 0.0135 0.0131

Mars 95962-12-19 14:38 G 36770813.03 36770813.11 36770813.18 0.1581 0.1224

Venus 95964-02-27 00:00 G 36771247.43 36771247.50 36771247.57 0.3629 0.2622

Jupiter 95967-01-18 14:38 G 36772304.02 36772304.11 36772304.20 0.0514 0.0357

Jupiter 95967-04-17 18:28 G 36772393.16 36772393.27 36772393.37 0.0512 0.0296

Earth 95968-12-25 19:55 G 36773011.22 36773011.33 36773011.44 0.2637 0.0094

Moon 95968-12-25 20:24 G 36773011.24 36773011.35 36773011.46 0.2640 0.0075 *

Venus 95969-09-11 14:52 G 36773271.02 36773271.12 36773271.22 0.3627 0.0734

Mars 95970-06-06 01:26 G 36773538.45 36773538.56 36773538.66 0.1587 0.0656

Saturn 95971-12-31 20:09 G 36774112.19 36774112.34 36774112.48 0.0284 0.0187

Saturn 95972-03-29 20:52 G 36774201.19 36774201.37 36774201.56 0.0286 0.0028

Mars 95972-05-11 02:09 G 36774243.49 36774243.59 36774243.69 0.1582 0.0853

Saturn 95972-06-26 21:36 G 36774290.32 36774290.40 36774290.51 0.0287 0.0243

Moon 95972-06-28 07:40 G 36774291.67 36774291.82 36774291.98 0.2696 0.0702

Earth 95972-06-28 09:36 G 36774291.74 36774291.90 36774292.06 0.2695 0.0428 *

Neptune 95972-09-19 11:16 G 36774374.92 36774374.97 36774375.03 0.0090 0.0086

Neptune 95972-12-16 15:07 G 36774463.03 36774463.13 36774463.24 0.0090 0.0075

Neptune 95973-03-14 18:43 G 36774551.15 36774551.28 36774551.43 0.0090 0.0064

Jupiter 95973-06-10 11:31 G 36774638.89 36774638.98 36774639.09 0.0514 0.0427

Neptune 95973-06-10 22:33 G 36774639.29 36774639.44 36774639.61 0.0090 0.0053

Neptune 95973-09-07 02:24 G 36774727.43 36774727.60 36774727.78 0.0090 0.0042

Neptune 95973-12-04 06:14 G 36774815.58 36774815.76 36774815.95 0.0090 0.0031

Neptune 95974-03-02 09:50 G 36774903.73 36774903.91 36774904.11 0.0090 0.0020

Neptune 95974-05-29 13:40 G 36774991.88 36774992.07 36774992.27 0.0090 0.0009

Neptune 95974-08-25 17:31 G 36775080.04 36775080.23 36775080.43 0.0090 0.0003

Neptune 95974-11-21 21:21 G 36775168.20 36775168.39 36775168.58 0.0090 0.0014

Neptune 95975-02-18 00:57 G 36775256.36 36775256.54 36775256.73 0.0090 0.0025

Venus 95975-03-28 05:45 G 36775294.64 36775294.74 36775294.83 0.3626 0.1176

Neptune 95975-05-17 04:33 G 36775344.52 36775344.69 36775344.88 0.0090 0.0036

Neptune 95975-08-13 08:09 G 36775432.69 36775432.84 36775433.02 0.0090 0.0047

Neptune 95975-11-09 12:00 G 36775520.86 36775521.00 36775521.16 0.0090 0.0058

Neptune 95976-02-05 15:36 G 36775609.04 36775609.15 36775609.29 0.0090 0.0069

Neptune 95976-05-03 19:12 G 36775697.23 36775697.30 36775697.41 0.0090 0.0080

Mars 95977-01-25 06:57 G 36775963.63 36775963.79 36775963.95 0.1956 0.0573

Venus 95978-01-02 23:16 G 36776306.32 36776306.47 36776306.61 0.3746 0.1619

Jupiter 95979-02-03 22:33 G 36776703.32 36776703.44 36776703.56 0.0512 0.0122

Mars 95979-10-27 13:12 G 36776968.96 36776969.05 36776969.14 0.1589 0.1020

Venus 95980-10-10 20:24 G 36777318.30 36777318.35 36777318.40 0.3624 0.3050

Mars 95981-10-01 13:55 G 36777673.97 36777674.08 36777674.19 0.1583 0.0486

Earth 95981-12-28 13:12 G 36777761.96 36777762.05 36777762.14 0.2636 0.1346

Moon 95981-12-28 13:55 G 36777761.99 36777762.08 36777762.17 0.2635 0.1460 *

Saturn 95985-02-11 20:52 G 36778903.26 36778903.37 36778903.47 0.0279 0.0160

Jupiter 95985-03-29 08:09 G 36778948.67 36778948.84 36778949.02 0.0514 0.0185

Saturn 95985-05-11 07:26 G 36778991.68 36778991.81 36778991.94 0.0277 0.0028

Saturn 95985-08-07 18:00 G 36779080.13 36779080.25 36779080.37 0.0276 0.0103

Saturn 95985-11-04 04:19 G 36779168.62 36779168.68 36779168.75 0.0275 0.0232

Mars 95986-06-16 22:19 G 36779393.28 36779393.43 36779393.57 0.1954 0.0871

Earth 95988-12-21 14:09 G 36780312.09 36780312.09 36780312.09 0.2639 0.2636

Mars 95989-03-19 00:57 G 36780399.48 36780399.54 36780399.59 0.1591 0.1388

Jupiter 95990-11-23 03:07 G 36781013.51 36781013.63 36781013.76 0.0512 0.0045

Mars 95991-02-22 01:40 G 36781104.45 36781104.57 36781104.69 0.1584 0.0116

Jupiter 95997-01-15 04:04 G 36783258.49 36783258.67 36783258.86 0.0513 0.0068

Mars 96000-07-14 13:26 G 36784534.94 36784535.06 36784535.18 0.1585 0.0253

97TH MILLENNIUM CE

This is a list of transits of Mercury in the 97th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	**96001-05-19 18:28**	**G**	**36784844.18**	**36784844.27**	**36784844.37**	**0.0284**	**0.0246**	
Saturn	**96001-08-16 19:26**	**G**	**36784933.12**	**36784933.31**	**36784933.50**	**0.0286**	**0.0033**	
Saturn	**96001-11-13 20:24**	**G**	**36785022.21**	**36785022.35**	**36785022.50**	**0.0287**	**0.0182**	
Earth	**96001-12-24 07:26**	**G**	**36785062.71**	**36785062.81**	**36785062.90**	**0.2638**	**0.1225**	
Moon	**96001-12-24 07:26**	**G**	**36785062.72**	**36785062.81**	**36785062.91**	**0.2645**	**0.1145**	*
Uranus	**96002-03-19 02:38**	**G**	**36785147.59**	**36785147.61**	**36785147.64**	**0.0142**	**0.0139**	
Uranus	**96002-06-15 06:00**	**G**	**36785235.69**	**36785235.75**	**36785235.83**	**0.0143**	**0.0118**	
Mars	**96002-06-19 14:24**	**G**	**36785240.03**	**36785240.10**	**36785240.17**	**0.1581**	**0.1262**	
Jupiter	**96002-09-11 07:40**	**G**	**36785323.71**	**36785323.82**	**36785323.94**	**0.0513**	**0.0209**	
Uranus	**96002-09-11 09:36**	**G**	**36785323.81**	**36785323.90**	**36785324.00**	**0.0143**	**0.0096**	*
Uranus	**96002-12-08 12:57**	**G**	**36785411.94**	**36785412.04**	**36785412.16**	**0.0143**	**0.0075**	
Jupiter	**96002-12-09 11:31**	**G**	**36785412.92**	**36785412.98**	**36785413.04**	**0.0511**	**0.0443**	
Uranus	**96003-03-06 16:33**	**G**	**36785500.07**	**36785500.19**	**36785500.32**	**0.0143**	**0.0053**	
Uranus	**96003-06-02 20:09**	**G**	**36785588.21**	**36785588.34**	**36785588.47**	**0.0143**	**0.0031**	
Uranus	**96003-08-29 23:31**	**G**	**36785676.35**	**36785676.48**	**36785676.61**	**0.0143**	**0.0010**	
Uranus	**96003-11-26 03:07**	**G**	**36785764.50**	**36785764.63**	**36785764.76**	**0.0143**	**0.0012**	
Uranus	**96004-02-22 06:28**	**G**	**36785852.65**	**36785852.77**	**36785852.90**	**0.0143**	**0.0035**	
Uranus	**96004-05-20 10:04**	**G**	**36785940.80**	**36785940.92**	**36785941.04**	**0.0143**	**0.0056**	
Uranus	**96004-08-16 13:26**	**G**	**36786028.96**	**36786029.06**	**36786029.18**	**0.0143**	**0.0078**	
Uranus	**96004-11-12 17:02**	**G**	**36786117.12**	**36786117.21**	**36786117.31**	**0.0143**	**0.0100**	
Uranus	**96005-02-08 20:38**	**G**	**36786205.30**	**36786205.36**	**36786205.43**	**0.0143**	**0.0122**	
Jupiter	**96008-11-02 23:31**	**G**	**36787568.34**	**36787568.48**	**36787568.63**	**0.0512**	**0.0325**	

Mars 96009-12-05 01:12 G 36787965.44 36787965.55 36787965.66 0.1587 0.0619

Mars 96011-11-10 02:09 G 36788670.49 36788670.59 36788670.69 0.1582 0.0891

Jupiter 96014-06-30 12:43 G 36789633.94 36789634.03 36789634.12 0.0514 0.0367

Saturn 96014-07-01 23:45 G 36789635.40 36789635.49 36789635.59 0.0278 0.0193

Jupiter 96014-09-27 16:33 G 36789723.08 36789723.19 36789723.29 0.0512 0.0287

Saturn 96014-09-28 10:19 G 36789723.81 36789723.93 36789724.06 0.0277 0.0061

Saturn 96014-12-25 20:52 G 36789812.25 36789812.37 36789812.50 0.0276 0.0071

Earth 96014-12-27 00:43 G 36789813.42 36789813.53 36789813.64 0.2637 0.0216

Moon 96014-12-27 01:12 G 36789813.45 36789813.55 36789813.66 0.2639 0.0270 *

Saturn 96015-03-24 07:26 G 36789900.72 36789900.81 36789900.90 0.0275 0.0200

Mars 96016-07-26 07:26 G 36790390.66 36790390.81 36790390.97 0.1957 0.0659

Moon 96018-06-29 14:38 G 36791093.95 36791094.11 36791094.27 0.2697 0.0028

Earth 96018-06-29 16:19 G 36791094.02 36791094.18 36791094.34 0.2695 0.0209 *

Mars 96019-04-27 13:12 G 36791395.96 36791396.05 36791396.14 0.1589 0.0985

Venus 96020-10-02 21:21 G 36791920.30 36791920.39 36791920.47 0.3629 0.1950

Jupiter 96020-11-20 09:21 G 36791968.78 36791968.89 36791968.99 0.0514 0.0423

Mars 96021-04-01 13:55 G 36792100.97 36792101.08 36792101.19 0.1583 0.0522

Mars 96025-12-15 23:16 G 36793820.32 36793820.47 36793820.63 0.1954 0.0763

Venus 96026-04-18 12:00 G 36793943.90 36793944.00 36793944.10 0.3627 0.0118

Jupiter 96026-07-16 21:21 G 36794033.27 36794033.39 36794033.51 0.0512 0.0129

Earth 96027-12-29 18:00 G 36794564.16 36794564.25 36794564.33 0.2636 0.1636

Moon 96027-12-29 18:43 G 36794564.19 36794564.28 36794564.36 0.2634 0.1751 *

Mars 96028-09-17 00:57 G 36794826.48 36794826.54 36794826.60 0.1591 0.1349

Mars 96030-08-23 01:40 G 36795531.45 36795531.57 36795531.69 0.1584 0.0154

Saturn 96031-01-03 17:16 G 36795665.05 36795665.22 36795665.40 0.0285 0.0096

Saturn 96031-04-02 18:14 G 36795754.09 36795754.26 36795754.43 0.0286 0.0119

Venus 96031-11-02 02:52 G 36795967.53 36795967.62 36795967.71 0.3625 0.1839

Jupiter 96032-09-08 05:31 G 36796278.55 36796278.73 36796278.90 0.0513 0.0175

Venus 96034-08-10 02:38 G 36796979.46 36796979.61 36796979.77 0.3747 0.1244

Moon 96034-12-22 18:43 G 36797114.23 36797114.28 36797114.33 0.2646 0.2336

Earth 96034-12-22 18:57 G 36797114.24 36797114.29 36797114.33 0.2639 0.2355 *

Jupiter 96038-05-05 01:40 G 36798343.44 36798343.57 36798343.70 0.0513 0.0042

Mars 96040-01-13 13:26 G 36798961.94 36798962.06 36798962.18 0.1585 0.0213

Mars 96041-12-18 14:24 G 36799667.04 36799667.10 36799667.17 0.1581 0.1304

Uranus 96043-10-07 00:43 G 36800324.43 36800324.53 36800324.66 0.0135 0.0109

Saturn 96043-11-19 02:38 G 36800367.54 36800367.61 36800367.69 0.0279 0.0229

Uranus 96044-01-03 08:24 G 36800412.71 36800412.85 36800413.02 0.0135 0.0081

Saturn 96044-02-15 13:26 G 36800455.94 36800456.06 36800456.18 0.0278 0.0096

Uranus 96044-03-31 16:19 G 36800501.00 36800501.18 36800501.36 0.0135 0.0053

Saturn 96044-05-14 00:00 G 36800544.37 36800544.50 36800544.63 0.0277 0.0036

Jupiter 96044-06-27 01:55 G 36800588.39 36800588.58 36800588.76 0.0513 0.0067

Uranus 96044-06-27 23:45 G 36800589.30 36800589.49 36800589.68 0.0135 0.0025

Saturn 96044-08-10 10:33 G 36800632.83 36800632.94 36800633.04 0.0276 0.0166

Uranus 96044-09-24 07:26 G 36800677.61 36800677.81 36800678.00 0.0135 0.0003

Uranus 96044-12-21 14:52 G 36800765.93 36800766.12 36800766.31 0.0135 0.0030

Uranus 96045-03-19 22:19 G 36800854.26 36800854.43 36800854.61 0.0135 0.0057

Uranus 96045-06-16 05:45 G 36800942.59 36800942.74 36800942.89 0.0135 0.0085

Uranus 96045-09-12 12:57 G 36801030.95 36801031.04 36801031.16 0.0135 0.0112

Earth 96047-12-25 12:14 G 36801864.90 36801865.01 36801865.11 0.2638 0.0942

Moon 96047-12-25 12:28 G 36801864.92 36801865.02 36801865.12 0.2644 0.0952 *

Mars 96049-06-05 01:12 G 36802392.44 36802392.55 36802392.66 0.1587 0.0583

Jupiter 96050-02-21 06:28 G 36802653.65 36802653.77 36802653.88 0.0513 0.0205

Jupiter 96050-05-21 10:04 G 36802742.86 36802742.92 36802742.98 0.0511 0.0445

Mars 96051-05-11 02:09 G 36803097.50 36803097.59 36803097.69 0.1581 0.0931

Earth 96051-06-27 14:52 G 36803145.08 36803145.12 36803145.15 0.2694 0.2618

Neptune 96053-07-07 07:12 G 36803885.80 36803885.80 36803885.80 0.0088 0.0088

Neptune 96053-10-03 08:24 G 36803973.80 36803973.85 36803973.90 0.0088 0.0081

Neptune 96053-12-30 09:36 G 36804061.84 36804061.90 36804061.97 0.0088 0.0074

Neptune 96054-03-28 10:48 G 36804149.87 36804149.95 36804150.04 0.0088 0.0067

Neptune 96054-06-24 12:14 G 36804237.91 36804238.01 36804238.10 0.0088 0.0060

Neptune 96054-09-20 13:26 G 36804325.96 36804326.06 36804326.16 0.0088 0.0053

Neptune 96054-12-17 14:24 G 36804414.00 36804414.10 36804414.22 0.0088 0.0047

Neptune 96055-03-15 15:36 G 36804502.05 36804502.15 36804502.28 0.0088 0.0040

Neptune 96055-06-11 17:02 G 36804590.09 36804590.21 36804590.34 0.0088 0.0032

Neptune 96055-09-07 18:14 G 36804678.14 36804678.26 36804678.39 0.0088 0.0026

Neptune 96055-12-04 19:40 G 36804766.19 36804766.32 36804766.45 0.0088 0.0018

Mars 96056-01-25 08:38 G 36804817.71 36804817.86 36804818.01 0.1957 0.0764

Neptune 96056-03-01 20:52 G 36804854.24 36804854.37 36804854.50 0.0088 0.0012

Jupiter 96056-04-14 21:50 G 36804898.27 36804898.41 36804898.56 0.0512 0.0316

Neptune 96056-05-28 22:04 G 36804942.29 36804942.42 36804942.56 0.0088 0.0005

Neptune 96056-08-24 23:31 G 36805030.34 36805030.48 36805030.61 0.0088 0.0003

Neptune 96056-11-21 00:43 G 36805118.40 36805118.53 36805118.66 0.0088 0.0009

Neptune 96057-02-17 01:55 G 36805206.45 36805206.58 36805206.71 0.0088 0.0017

Neptune 96057-05-16 03:07 G 36805294.51 36805294.63 36805294.76 0.0088 0.0024

Neptune 96057-08-12 04:19 G 36805382.56 36805382.68 36805382.81 0.0088 0.0031

Neptune 96057-11-08 05:31 G 36805470.62 36805470.73 36805470.86 0.0088 0.0038

Neptune 96058-02-04 06:57 G 36805558.68 36805558.79 36805558.91 0.0088 0.0044

Neptune 96058-05-03 08:09 G 36805646.74 36805646.84 36805646.95 0.0088 0.0052

Neptune 96058-07-30 09:21 G 36805734.80 36805734.89 36805735.00 0.0088 0.0059

Neptune 96058-10-26 10:33 G 36805822.87 36805822.94 36805823.04 0.0088 0.0066

Mars 96058-10-26 12:57 G 36805822.95 36805823.04 36805823.14 0.1589 0.0951 *

Neptune 96059-01-22 12:00 G 36805910.93 36805911.00 36805911.08 0.0088 0.0073

Neptune 96059-04-20 13:12 G 36805999.01 36805999.05 36805999.11 0.0088 0.0080

Neptune 96059-07-17 14:24 G 36806087.10 36806087.10 36806087.13 0.0088 0.0087

Saturn 96060-05-22 14:38 G 36806396.97 36806397.11 36806397.28 0.0285 0.0164

Saturn 96060-08-19 15:50 G 36806485.97 36806486.16 36806486.35 0.0286 0.0051

Mars 96060-09-30 13:55 G 36806527.97 36806528.08 36806528.19 0.1583 0.0561

Saturn 96060-11-16 16:48 G 36806575.13 36806575.20 36806575.26 0.0287 0.0267

Earth 96060-12-27 05:16 G 36806615.62 36806615.72 36806615.83 0.2637 0.0499

Moon 96060-12-27 06:00 G 36806615.65 36806615.75 36806615.86 0.2639 0.0661 *

Jupiter 96061-12-10 11:02 G 36806963.87 36806963.96 36806964.04 0.0514 0.0371

Jupiter 96062-03-09 14:38 G 36807053.01 36807053.11 36807053.22 0.0512 0.0282

Moon 96064-06-29 21:36 G 36807896.25 36807896.40 36807896.56 0.2699 0.0571

Earth 96064-06-29 23:02 G 36807896.31 36807896.46 36807896.61 0.2695 0.0859 *

Mars 96065-06-15 23:45 G 36808247.34 36808247.49 36808247.65 0.1954 0.0688

Mars 96068-03-18 00:57 G 36809253.47 36809253.54 36809253.60 0.1591 0.1317

Jupiter 96068-05-02 08:24 G 36809298.76 36809298.85 36809298.94 0.0514 0.0445

Mars 96070-02-21 01:40 G 36809958.45 36809958.57 36809958.69 0.1584 0.0192

Venus 96071-10-25 03:36 G 36810569.61 36810569.65 36810569.70 0.3630 0.3165

Saturn 96073-04-07 05:16 G 36811099.69 36811099.72 36811099.76 0.0279 0.0267

Saturn 96073-07-04 16:04 G 36811188.06 36811188.17 36811188.28 0.0278 0.0133

Saturn 96073-10-01 02:38 G 36811276.48 36811276.61 36811276.74 0.0277 0.0001

Jupiter 96073-12-26 19:40 G 36811363.20 36811363.32 36811363.45 0.0513 0.0126

Saturn 96073-12-28 13:12 G 36811364.93 36811365.05 36811365.16 0.0276 0.0129

Earth 96073-12-29 22:48 G 36811366.37 36811366.45 36811366.52 0.2636 0.1931

Moon 96073-12-29 23:16 G 36811366.40 36811366.47 36811366.54 0.2633 0.1980 *

Saturn 96074-03-26 23:45 G 36811453.44 36811453.49 36811453.53 0.0274 0.0258

Venus 96077-05-09 18:28 G 36812593.18 36812593.27 36812593.37 0.3628 0.1266

Mars 96079-07-14 13:26 G 36813388.94 36813389.06 36813389.18 0.1585 0.0179

Jupiter 96080-02-19 03:36 G 36813608.48 36813608.65 36813608.83 0.0513 0.0182

Moon 96080-12-22 23:31 G 36813916.42 36813916.48 36813916.54 0.2646 0.2134

Earth 96080-12-22 23:45 G 36813916.42 36813916.49 36813916.55 0.2639 0.2070 *

Mars 96081-06-18 14:24 G 36814094.04 36814094.10 36814094.17 0.1581 0.1343

Venus 96082-11-23 09:21 G 36814616.79 36814616.89 36814616.99 0.3626 0.0630

Jupiter 96085-10-15 00:43 G 36815673.40 36815673.53 36815673.66 0.0513 0.0031

Uranus 96086-04-08 09:50 G 36815848.88 36815848.91 36815848.96 0.0142 0.0134

Pluto 96086-06-04 16:04 G 36815906.09 36815906.17 36815906.29 0.0061 0.0052

Uranus 96086-07-05 13:26 G 36815936.99 36815937.06 36815937.14 0.0143 0.0112

Pluto 96086-08-31 17:45 G 36815994.10 36815994.24 36815994.38 0.0061 0.0041

Uranus 96086-10-01 17:02 G 36816025.11 36816025.21 36816025.31 0.0143 0.0091

Pluto 96086-11-27 18:43 G 36816082.13 36816082.28 36816082.45 0.0061 0.0031

Uranus 96086-12-28 20:24 G 36816113.24 36816113.35 36816113.47 0.0143 0.0069

Pluto 96087-02-23 19:55 G 36816170.16 36816170.33 36816170.52 0.0061 0.0021

Uranus 96087-03-27 00:00 G 36816201.37 36816201.50 36816201.62 0.0143 0.0048

Pluto 96087-05-22 21:21 G 36816258.21 36816258.39 36816258.57 0.0061 0.0010

Uranus 96087-06-23 03:21 G 36816289.51 36816289.64 36816289.77 0.0143 0.0026

Pluto 96087-08-18 22:33 G 36816346.25 36816346.44 36816346.63 0.0061 0.0000

Uranus 96087-09-19 06:57 G 36816377.66 36816377.79 36816377.92 0.0143 0.0005

Pluto 96087-11-14 23:45 G 36816434.31 36816434.49 36816434.67 0.0061 0.0011

Uranus 96087-12-16 10:19 G 36816465.80 36816465.93 36816466.06 0.0143 0.0018

Pluto 96088-02-11 00:43 G 36816522.37 36816522.53 36816522.71 0.0061 0.0022

Uranus 96088-03-13 13:55 G 36816553.95 36816554.08 36816554.20 0.0143 0.0039

Pluto 96088-05-09 02:09 G 36816610.43 36816610.59 36816610.75 0.0061 0.0032

Venus 96088-06-08 00:14 G 36816640.43 36816640.51 36816640.58 0.3625 0.2523

Uranus 96088-06-09 17:16 G 36816642.11 36816642.22 36816642.34 0.0143 0.0061

Pluto 96088-08-05 02:52 G 36816698.51 36816698.62 36816698.77 0.0061 0.0043

Uranus 96088-09-05 20:52 G 36816730.26 36816730.37 36816730.48 0.0143 0.0083

Pluto 96088-11-01 04:33 G 36816786.60 36816786.69 36816786.78 0.0062 0.0053

Uranus 96088-12-03 00:14 G 36816818.43 36816818.51 36816818.60 0.0143 0.0105

Mars 96088-12-04 01:12 G 36816819.44 36816819.55 36816819.66 0.1587 0.0543

Uranus 96089-03-01 03:50 G 36816906.61 36816906.66 36816906.72 0.0143 0.0127

Saturn 96089-10-09 12:00 G 36817128.89 36817129.00 36817129.11 0.0284 0.0233

Saturn 96090-01-06 12:57 G 36817217.85 36817218.04 36817218.23 0.0285 0.0019

Saturn 96090-04-05 13:40 G 36817306.94 36817307.07 36817307.21 0.0287 0.0197

Mars 96090-11-09 02:09 G 36817524.50 36817524.59 36817524.68 0.1582 0.0969

Jupiter 96091-12-08 00:00 G 36817918.31 36817918.50 36817918.68 0.0513 0.0065

Earth 96093-12-25 16:48 G 36818667.10 36818667.20 36818667.31 0.2638 0.0654

Moon 96093-12-25 17:16 G 36818667.11 36818667.22 36818667.33 0.2643 0.0534 *

Mars 96095-07-26 09:36 G 36819244.75 36819244.90 36819245.05 0.1957 0.0863

Moon 96097-06-27 19:55 G 36819947.25 36819947.33 36819947.40 0.2693 0.2340

Earth 96097-06-27 21:36 G 36819947.29 36819947.40 36819947.51 0.2694 0.1959 *

Jupiter 96097-08-03 05:02 G 36819983.60 36819983.71 36819983.83 0.0513 0.0201

Jupiter 96097-10-31 08:52 G 36820072.81 36820072.87 36820072.93 0.0511 0.0450

Mars 96098-04-26 12:57 G 36820249.95 36820250.04 36820250.14 0.1589 0.0913

Mars 96100-04-01 13:55 G 36820954.97 36820955.08 36820955.19 0.1582 0.0601

Saturn 96102-11-22 18:43 G 36821920.18 36821920.28 36821920.38 0.0279 0.0173

Saturn 96103-02-19 05:16 G 36822008.59 36822008.72 36822008.85 0.0278 0.0041

Saturn 96103-05-18 15:50 G 36822097.04 36822097.16 36822097.28 0.0277 0.0091

Saturn 96103-08-15 02:24 G 36822185.52 36822185.60 36822185.68 0.0275 0.0221

Jupiter 96103-09-26 20:09 G 36822228.20 36822228.34 36822228.49 0.0513 0.0308

Mars 96104-12-16 00:57 G 36822674.38 36822674.54 36822674.70 0.1954 0.0579

Earth 96106-12-29 10:04 G 36823417.82 36823417.92 36823418.03 0.2637 0.0782

Moon 96106-12-29 10:48 G 36823417.85 36823417.95 36823418.06 0.2639 0.0823 *

Mars 96107-09-18 00:43 G 36823680.47 36823680.53 36823680.60 0.1591 0.1282

Jupiter 96109-05-23 10:04 G 36824293.83 36824293.92 36824294.00 0.0513 0.0361

Jupiter 96109-08-20 13:40 G 36824382.97 36824383.07 36824383.17 0.0511 0.0290

Mars 96109-08-23 01:40 G 36824385.45 36824385.57 36824385.68 0.1584 0.0232

Moon 96110-07-02 04:33 G 36824698.56 36824698.69 36824698.82 0.2700 0.1426

Earth 96110-07-02 06:00 G 36824698.62 36824698.75 36824698.88 0.2696 0.1508 *

Jupiter 96115-10-14 07:26 G 36826628.73 36826628.81 36826628.89 0.0514 0.0462

Mars 96119-01-13 13:26 G 36827815.94 36827816.06 36827816.17 0.1585 0.0147

Saturn 96119-05-27 09:36 G 36827949.72 36827949.90 36827950.08 0.0285 0.0093

Saturn 96119-08-24 10:33 G 36828038.77 36828038.94 36828039.11 0.0286 0.0122

Earth 96120-01-01 03:36 G 36828168.59 36828168.65 36828168.70 0.2636 0.2223

Moon 96120-01-01 04:04 G 36828168.62 36828168.67 36828168.72 0.2631 0.2354 *

Mars 96120-12-18 14:24 G 36828521.05 36828521.10 36828521.16 0.1580 0.1379

Jupiter 96121-06-08 18:14 G 36828693.14 36828693.26 36828693.39 0.0512 0.0129

Moon 96126-12-25 04:19 G 36830718.60 36830718.68 36830718.76 0.2646 0.1772

Earth 96126-12-25 04:19 G 36830718.60 36830718.68 36830718.76 0.2639 0.1783 *

Uranus 96127-08-01 00:28 G 36830937.47 36830937.52 36830937.59 0.0136 0.0129

Jupiter 96127-08-02 03:21 G 36830938.47 36830938.64 36830938.81 0.0513 0.0211

Uranus 96127-10-28 08:09 G 36831025.72 36831025.84 36831025.97 0.0135 0.0101

Uranus 96128-01-24 15:36 G 36831114.00 36831114.15 36831114.33 0.0135 0.0074

Uranus 96128-04-21 23:16 G 36831202.29 36831202.47 36831202.66 0.0135 0.0046

Venus 96128-06-01 00:57 G 36831242.47 36831242.54 36831242.61 0.3629 0.2476

Mars 96128-06-05 01:12 G 36831246.44 36831246.55 36831246.66 0.1587 0.0508

Uranus 96128-07-19 06:57 G 36831290.60 36831290.79 36831290.98 0.0135 0.0018

Uranus 96128-10-15 14:24 G 36831378.91 36831379.10 36831379.30 0.0135 0.0010

Uranus 96129-01-11 21:50 G 36831467.23 36831467.41 36831467.61 0.0135 0.0037

Uranus 96129-04-10 05:31 G 36831555.56 36831555.73 36831555.90 0.0135 0.0064

Uranus 96129-07-07 12:57 G 36831643.90 36831644.04 36831644.18 0.0135 0.0092

Uranus 96129-10-03 19:55 G 36831732.26 36831732.33 36831732.44 0.0135 0.0120

Mars 96130-05-11 02:09 G 36831951.50 36831951.59 36831951.68 0.1581 0.1008

Saturn 96132-04-10 20:52 G 36832652.29 36832652.37 36832652.45 0.0279 0.0217

Saturn 96132-07-08 07:26 G 36832740.69 36832740.81 36832740.94 0.0278 0.0084

Saturn 96132-10-04 18:00 G 36832829.12 36832829.25 36832829.38 0.0277 0.0049

Saturn 96133-01-01 04:33 G 36832917.59 36832917.69 36832917.79 0.0275 0.0179

Jupiter 96133-03-27 23:16 G 36833003.35 36833003.47 36833003.60 0.0513 0.0030

Venus 96133-12-15 15:50 G 36833266.06 36833266.16 36833266.26 0.3628 0.0586

Mars 96135-01-25 10:04 G 36833671.78 36833671.92 36833672.07 0.1957 0.0945

Neptune 96137-06-17 08:52 G 36834545.81 36834545.87 36834545.95 0.0090 0.0083

Neptune 96137-09-13 12:43 G 36834633.92 36834634.03 36834634.15 0.0090 0.0072

Mars 96137-10-26 12:57 G 36834676.95 36834677.04 36834677.14 0.1589 0.0876

Neptune 96137-12-10 16:33 G 36834722.05 36834722.19 36834722.34 0.0090 0.0061

Neptune 96138-03-08 20:09 G 36834810.19 36834810.34 36834810.52 0.0090 0.0050

Neptune 96138-06-05 00:00 G 36834898.33 36834898.50 36834898.69 0.0090 0.0039

Neptune 96138-09-01 03:50 G 36834986.48 36834986.66 36834986.85 0.0090 0.0028

Neptune 96138-11-28 07:40 G 36835074.63 36835074.82 36835075.02 0.0090 0.0017

Neptune 96139-02-24 11:31 G 36835162.79 36835162.98 36835163.18 0.0090 0.0006

Jupiter 96139-05-20 22:33 G 36835248.26 36835248.44 36835248.63 0.0513 0.0050

Neptune 96139-05-23 15:21 G 36835250.94 36835251.14 36835251.33 0.0090 0.0006

Venus 96139-07-01 06:28 G 36835289.68 36835289.77 36835289.87 0.3626 0.1320

Neptune 96139-08-19 18:57 G 36835339.10 36835339.29 36835339.49 0.0090 0.0017

Mars 96139-10-01 13:55 G 36835381.97 36835382.08 36835382.18 0.1583 0.0640

Neptune 96139-11-15 22:33 G 36835427.26 36835427.44 36835427.64 0.0090 0.0028

Earth 96139-12-27 21:36 G 36835469.29 36835469.40 36835469.51 0.2638 0.0361

Moon 96139-12-27 22:04 G 36835469.31 36835469.42 36835469.53 0.2642 0.0330 *

Neptune 96140-02-12 02:24 G 36835515.43 36835515.60 36835515.78 0.0090 0.0039

Neptune 96140-05-10 06:00 G 36835603.60 36835603.75 36835603.92 0.0090 0.0050

Neptune 96140-08-06 09:36 G 36835691.77 36835691.90 36835692.06 0.0090 0.0061

Neptune 96140-11-02 13:12 G 36835779.96 36835780.05 36835780.19 0.0090 0.0072

Neptune 96141-01-29 17:02 G 36835868.15 36835868.21 36835868.30 0.0090 0.0083

Venus 96142-04-07 18:57 G 36836301.16 36836301.29 36836301.42 0.3746 0.2210

Moon 96143-06-30 02:38 G 36836749.48 36836749.61 36836749.75 0.2694 0.1443

Earth 96143-06-30 04:33 G 36836749.55 36836749.69 36836749.83 0.2694 0.1301 *

Mars 96144-06-16 01:55 G 36837101.42 36837101.58 36837101.75 0.1955 0.0476

Venus 96145-01-13 21:21 G 36837313.35 36837313.39 36837313.44 0.3624 0.3193

Jupiter 96145-01-14 04:19 G 36837313.56 36837313.68 36837313.80 0.0513 0.0185

Jupiter 96145-04-13 08:09 G 36837402.79 36837402.84 36837402.89 0.0512 0.0467

Mars 96147-03-19 00:43 G 36838107.46 36838107.53 36838107.61 0.1591 0.1243

Saturn 96148-10-13 06:00 G 36838681.60 36838681.75 36838681.90 0.0284 0.0170

Saturn 96149-01-10 06:57 G 36838770.60 36838770.79 36838770.97 0.0286 0.0044

Mars 96149-02-21 01:40 G 36838812.45 36838812.57 36838812.68 0.1584 0.0270

Saturn 96149-04-09 07:40 G 36838859.75 36838859.82 36838859.90 0.0287 0.0260

Jupiter 96151-03-08 18:57 G 36839558.14 36839558.29 36839558.44 0.0512 0.0294

Earth 96152-12-29 14:52 G 36840220.02 36840220.12 36840220.22 0.2637 0.1071

Moon 96152-12-29 15:36 G 36840220.05 36840220.15 36840220.25 0.2637 0.1234 *

Mars 96153-11-05 17:02 G 36840531.19 36840531.21 36840531.23 0.1951 0.1934

Moon 96156-07-02 11:31 G 36841500.87 36841500.98 36841501.09 0.2701 0.1857

Earth 96156-07-02 12:43 G 36841500.94 36841501.03 36841501.12 0.2696 0.2154 *

Jupiter 96156-11-02 08:52 G 36841623.78 36841623.87 36841623.96 0.0513 0.0350

Jupiter 96157-01-30 12:28 G 36841712.92 36841713.02 36841713.13 0.0511 0.0301

Mars 96158-07-14 13:26 G 36842242.94 36842243.06 36842243.17 0.1585 0.0112

Mars 96160-06-18 14:24 G 36842948.05 36842948.10 36842948.15 0.1580 0.1422

Saturn 96161-08-28 23:02 G 36843384.42 36843384.46 36843384.51 0.0280 0.0262

Saturn 96161-11-25 09:36 G 36843472.79 36843472.90 36843473.02 0.0279 0.0128

Saturn 96162-02-21 20:24 G 36843561.22 36843561.35 36843561.48 0.0278 0.0007

Saturn 96162-05-21 06:57 G 36843649.68 36843649.79 36843649.90 0.0276 0.0137

Saturn 96162-08-17 17:16 G 36843738.20 36843738.22 36843738.26 0.0275 0.0267

Jupiter 96163-03-26 06:00 G 36843958.69 36843958.75 36843958.82 0.0514 0.0478

Earth 96166-01-01 08:24 G 36844970.82 36844970.85 36844970.88 0.2636 0.2517

Moon 96166-01-01 08:52 G 36844970.84 36844970.87 36844970.90 0.2631 0.2529 *

Mars 96167-12-05 01:12 G 36845673.43 36845673.55 36845673.66 0.1587 0.0474

Jupiter 96168-08-21 13:40 G 36845934.06 36845934.07 36845934.09 0.0514 0.0509

Jupiter 96168-11-18 17:31 G 36846023.11 36846023.23 36846023.35 0.0512 0.0142

Mars 96169-11-09 02:09 G 36846378.50 36846378.59 36846378.67 0.1581 0.1049

Uranus 96170-04-29 17:16 G 36846550.18 36846550.22 36846550.29 0.0142 0.0128

Uranus 96170-07-26 21:07 G 36846638.29 36846638.38 36846638.46 0.0143 0.0106

Uranus 96170-10-23 00:14 G 36846726.41 36846726.51 36846726.62 0.0143 0.0085

Uranus 96171-01-19 03:50 G 36846814.55 36846814.66 36846814.78 0.0143 0.0063

Uranus 96171-04-17 07:26 G 36846902.68 36846902.81 36846902.93 0.0143 0.0041

Uranus 96171-07-14 10:48 G 36846990.82 36846990.95 36846991.08 0.0143 0.0020

Uranus 96171-10-10 14:24 G 36847078.97 36847079.10 36847079.23 0.0143 0.0002

Uranus 96172-01-06 17:45 G 36847167.11 36847167.24 36847167.37 0.0143 0.0024

Uranus 96172-04-03 21:21 G 36847255.27 36847255.39 36847255.51 0.0143 0.0045

Uranus 96172-07-01 00:57 G 36847343.42 36847343.54 36847343.65 0.0143 0.0067

Uranus 96172-09-27 04:19 G 36847431.58 36847431.68 36847431.78 0.0143 0.0089

Uranus 96172-12-24 07:40 G 36847519.75 36847519.82 36847519.91 0.0143 0.0111

Earth 96172-12-25 09:07 G 36847520.79 36847520.88 36847520.97 0.2639 0.1493

Moon 96172-12-25 09:07 G 36847520.80 36847520.88 36847520.97 0.2645 0.1491 *

Uranus 96173-03-22 11:16 G 36847607.93 36847607.97 36847608.02 0.0143 0.0133

Mars 96174-07-26 11:16 G 36848098.83 36848098.97 36848099.11 0.1957 0.1058

Jupiter 96175-01-12 02:24 G 36848268.44 36848268.60 36848268.77 0.0514 0.0234

Mars 96177-04-26 12:57 G 36849103.94 36849104.04 36849104.14 0.1589 0.0839

Saturn 96178-03-02 02:09 G 36849413.50 36849413.59 36849413.68 0.0284 0.0247

Saturn 96178-05-30 03:07 G 36849502.44 36849502.63 36849502.82 0.0285 0.0035

Saturn 96178-08-27 03:50 G 36849591.52 36849591.66 36849591.81 0.0286 0.0180

Mars 96179-04-01 13:40 G 36849808.97 36849809.07 36849809.18 0.1582 0.0677

Pluto 96179-09-26 07:55 G 36849986.77 36849986.83 36849986.90 0.0084 0.0073

Pluto 96179-12-23 09:21 G 36850074.79 36850074.89 36850075.00 0.0083 0.0053

Pluto 96180-03-20 10:33 G 36850162.82 36850162.94 36850163.07 0.0083 0.0033

Pluto 96180-06-16 12:00 G 36850250.86 36850251.00 36850251.13 0.0083 0.0013

Jupiter 96180-09-06 22:04 G 36850333.30 36850333.42 36850333.55 0.0513 0.0026

Pluto 96180-09-12 13:12 G 36850338.91 36850339.05 36850339.19 0.0083 0.0006

Pluto 96180-12-09 14:24 G 36850426.97 36850427.10 36850427.24 0.0083 0.0026

Pluto 96181-03-07 15:36 G 36850515.04 36850515.15 36850515.27 0.0083 0.0046

Pluto 96181-06-03 16:48 G 36850603.13 36850603.20 36850603.30 0.0083 0.0065

Mars 96183-12-16 02:38 G 36851528.44 36851528.61 36851528.77 0.1954 0.0395

Venus 96185-01-05 22:19 G 36851915.34 36851915.43 36851915.51 0.3629 0.1795

Earth 96185-12-28 02:24 G 36852271.49 36852271.60 36852271.71 0.2638 0.0077

Moon 96185-12-28 02:52 G 36852271.51 36852271.62 36852271.73 0.2642 0.0061 *

Mars 96186-09-17 00:43 G 36852534.46 36852534.53 36852534.61 0.1591 0.1208

Jupiter 96186-10-30 22:33 G 36852578.25 36852578.44 36852578.63 0.0513 0.0016

Mars 96188-08-22 01:40 G 36853239.45 36853239.57 36853239.68 0.1584 0.0312

Moon 96189-06-30 09:36 G 36853551.75 36853551.90 36853552.05 0.2696 0.0980

Earth 96189-06-30 11:16 G 36853551.82 36853551.97 36853552.12 0.2695 0.0658 *

Venus 96190-07-22 12:57 G 36853938.94 36853939.04 36853939.14 0.3627 0.0151

Saturn 96191-04-14 11:31 G 36854204.88 36854204.98 36854205.08 0.0279 0.0175

Saturn 96191-07-11 22:19 G 36854293.30 36854293.43 36854293.55 0.0278 0.0042

Saturn 96191-10-08 08:38 G 36854381.74 36854381.86 36854381.99 0.0277 0.0092

Saturn 96192-01-04 19:12 G 36854470.23 36854470.30 36854470.38 0.0275 0.0221

Jupiter 96192-06-26 03:07 G 36854643.51 36854643.63 36854643.75 0.0513 0.0178

Jupiter 96192-09-23 06:57 G 36854732.74 36854732.79 36854732.83 0.0511 0.0473

Mars 96193-05-06 17:45 G 36854958.19 36854958.24 36854958.29 0.1952 0.1844

Venus 96196-02-05 03:50 G 36855962.58 36855962.66 36855962.74 0.3625 0.1986

Mars 96196-02-07 12:43 G 36855965.01 36855965.03 36855965.04 0.1593 0.1575

Mars 96198-01-12 13:12 G 36856669.94 36856670.05 36856670.17 0.1585 0.0090

Jupiter 96198-08-18 18:00 G 36856888.10 36856888.25 36856888.41 0.0512 0.0271

Venus 96198-11-12 22:19 G 36856974.27 36856974.43 36856974.60 0.3746 0.0640

Earth 96198-12-30 19:40 G 36857022.23 36857022.32 36857022.41 0.2637 0.1365

Moon 96198-12-30 20:24 G 36857022.26 36857022.35 36857022.44 0.2635 0.1414 *

Mars 96199-12-18 14:24 G 36857375.06 36857375.10 36857375.14 0.1580 0.1461

Jupiter 96204-04-15 08:09 G 36858953.75 36858953.84 36858953.94 0.0514 0.0333

Jupiter 96204-07-13 12:00 G 36859042.90 36859043.00 36859043.10 0.0512 0.0320

Earth 96205-12-24 20:38 G 36859572.35 36859572.36 36859572.37 0.2640 0.2624

Mars 96207-06-06 01:12 G 36860100.43 36860100.55 36860100.66 0.1587 0.0432

Saturn 96207-10-17 22:48 G 36860234.28 36860234.45 36860234.63 0.0284 0.0115

Saturn 96208-01-14 23:31 G 36860323.31 36860323.48 36860323.67 0.0286 0.0099

Mars 96209-05-11 02:09 G 36860805.50 36860805.59 36860805.67 0.1581 0.1088

Jupiter 96210-09-06 05:16 G 36861288.67 36861288.72 36861288.76 0.0514 0.0498

Uranus 96211-08-22 07:55 G 36861638.76 36861638.83 36861638.93 0.0135 0.0120

Uranus 96211-11-18 15:36 G 36861727.02 36861727.15 36861727.30 0.0135 0.0093

Uranus 96212-02-14 23:16 G 36861815.31 36861815.47 36861815.65 0.0135 0.0065

Uranus 96212-05-13 06:57 G 36861903.61 36861903.79 36861903.98 0.0135 0.0037

Uranus 96212-08-09 14:38 G 36861991.91 36861992.11 36861992.30 0.0135 0.0009

Uranus 96212-11-05 22:04 G 36862080.23 36862080.42 36862080.61 0.0135 0.0018

Uranus 96213-02-02 05:31 G 36862168.55 36862168.73 36862168.92 0.0135 0.0046

Uranus 96213-05-01 12:43 G 36862256.88 36862257.03 36862257.21 0.0135 0.0074

Uranus 96213-07-28 20:24 G 36862345.23 36862345.35 36862345.49 0.0135 0.0100

Uranus 96213-10-25 03:36 G 36862433.60 36862433.65 36862433.73 0.0135 0.0128

Mars 96214-01-25 12:14 G 36862525.87 36862526.01 36862526.14 0.1957 0.1153

Jupiter 96216-02-02 12:57 G 36863264.01 36863264.04 36863264.07 0.0514 0.0495

Jupiter 96216-05-01 16:33 G 36863353.07 36863353.19 36863353.31 0.0512 0.0157

Mars 96216-10-26 12:57 G 36863530.94 36863531.04 36863531.14 0.1589 0.0802

Neptune 96218-04-05 06:28 G 36864056.75 36864056.77 36864056.81 0.0088 0.0086

Neptune 96218-07-02 07:40 G 36864144.78 36864144.82 36864144.89 0.0088 0.0079

Neptune 96218-09-28 09:07 G 36864232.81 36864232.88 36864232.96 0.0088 0.0072

Mars 96218-10-01 13:55 G 36864235.97 36864236.08 36864236.18 0.1582 0.0720

Neptune 96218-12-25 10:19 G 36864320.85 36864320.93 36864321.02 0.0088 0.0065

Earth 96218-12-27 13:55 G 36864322.98 36864323.08 36864323.18 0.2639 0.1209

Moon 96218-12-27 14:09 G 36864322.99 36864323.09 36864323.19 0.2645 0.1197 *

Neptune 96219-03-23 11:31 G 36864408.89 36864408.98 36864409.09 0.0088 0.0058

Neptune 96219-06-19 12:57 G 36864496.93 36864497.04 36864497.15 0.0088 0.0051

Neptune 96219-09-15 14:09 G 36864584.98 36864585.09 36864585.21 0.0088 0.0044

Neptune 96219-12-12 15:21 G 36864673.02 36864673.14 36864673.26 0.0088 0.0037

Neptune 96220-03-09 16:48 G 36864761.07 36864761.20 36864761.32 0.0088 0.0030

Neptune 96220-06-05 18:00 G 36864849.12 36864849.25 36864849.38 0.0088 0.0023

Saturn 96220-09-01 13:26 G 36864936.99 36864937.06 36864937.14 0.0280 0.0223

Neptune 96220-09-01 19:12 G 36864937.17 36864937.30 36864937.43 0.0088 0.0016

Neptune 96220-11-28 20:24 G 36865025.22 36865025.35 36865025.48 0.0088 0.0009

Saturn 96220-11-29 00:14 G 36865025.38 36865025.51 36865025.63 0.0279 0.0089 *

Neptune 96221-02-24 21:50 G 36865113.27 36865113.41 36865113.54 0.0088 0.0003

Saturn 96221-02-25 10:48 G 36865113.82 36865113.95 36865114.08 0.0278 0.0044

Neptune 96221-05-23 23:02 G 36865201.33 36865201.46 36865201.59 0.0088 0.0005

Saturn 96221-05-24 21:21 G 36865202.29 36865202.39 36865202.49 0.0276 0.0175

Neptune 96221-08-20 00:14 G 36865289.38 36865289.51 36865289.64 0.0088 0.0012

Neptune 96221-11-16 01:26 G 36865377.43 36865377.56 36865377.69 0.0088 0.0019

Neptune 96222-02-12 02:38 G 36865465.49 36865465.61 36865465.74 0.0088 0.0026

Neptune 96222-05-11 04:04 G 36865553.55 36865553.67 36865553.79 0.0088 0.0033

Jupiter 96222-06-25 01:26 G 36865598.40 36865598.56 36865598.72 0.0514 0.0253

Neptune 96222-08-07 05:16 G 36865641.60 36865641.72 36865641.84 0.0088 0.0040

Neptune 96222-11-03 06:28 G 36865729.66 36865729.77 36865729.89 0.0088 0.0047

Neptune 96223-01-30 07:40 G 36865817.72 36865817.82 36865817.93 0.0088 0.0054

Neptune 96223-04-28 08:52 G 36865905.79 36865905.87 36865905.98 0.0088 0.0061

Mars 96223-06-17 03:36 G 36865955.48 36865955.65 36865955.81 0.1955 0.0289

Neptune 96223-07-25 10:19 G 36865993.85 36865993.93 36865994.02 0.0088 0.0068

Neptune 96223-10-21 11:31 G 36866081.92 36866081.98 36866082.05 0.0088 0.0075

Neptune 96224-01-17 12:43 G 36866169.99 36866170.03 36866170.08 0.0088 0.0082

Mars 96226-03-19 00:43 G 36866961.45 36866961.53 36866961.61 0.1591 0.1173

Jupiter 96228-02-18 21:36 G 36867663.27 36867663.40 36867663.53 0.0512 0.0001

Mars 96228-02-22 01:26 G 36867666.45 36867666.56 36867666.68 0.1584 0.0348

Earth 96231-12-30 07:12 G 36869073.69 36869073.80 36869073.91 0.2637 0.0229

Moon 96231-12-30 07:40 G 36869073.71 36869073.82 36869073.93 0.2641 0.0290 *

Mars 96232-11-05 18:57 G 36869385.21 36869385.29 36869385.36 0.1951 0.1740

Jupiter 96234-04-12 22:04 G 36869908.23 36869908.42 36869908.60 0.0513 0.0017

Moon 96235-07-02 16:33 G 36870354.03 36870354.19 36870354.34 0.2698 0.0200

Earth 96235-07-02 18:00 G 36870354.10 36870354.25 36870354.41 0.2695 0.0081 *

Mars 96235-08-09 12:28 G 36870392.00 36870392.02 36870392.05 0.1593 0.1540

Venus 96236-01-29 04:48 G 36870564.64 36870564.70 36870564.75 0.3630 0.3008

Saturn 96237-03-05 18:43 G 36870966.14 36870966.28 36870966.41 0.0284 0.0196

Saturn 96237-06-02 19:26 G 36871055.12 36871055.31 36871055.50 0.0285 0.0016

Mars 96237-07-14 13:12 G 36871096.93 36871097.05 36871097.17 0.1585 0.0038

Saturn 96237-08-30 20:09 G 36871144.23 36871144.34 36871144.45 0.0286 0.0231

Mars 96239-06-19 14:24 G 36871802.07 36871802.10 36871802.13 0.1580 0.1499

Jupiter 96239-12-08 02:09 G 36871973.48 36871973.59 36871973.72 0.0513 0.0165

Jupiter 96240-03-06 06:00 G 36872062.71 36872062.75 36872062.79 0.0511 0.0485

Venus 96241-08-13 19:26 G 36872588.22 36872588.31 36872588.41 0.3628 0.1117

Earth 96245-01-01 00:28 G 36873824.44 36873824.52 36873824.61 0.2636 0.1659

Moon 96245-01-01 01:12 G 36873824.47 36873824.55 36873824.63 0.2634 0.1801 *

Jupiter 96246-01-29 18:14 G 36874218.09 36874218.26 36874218.42 0.0513 0.0236

Mars 96246-12-05 01:12 G 36874527.43 36874527.55 36874527.66 0.1587 0.0400

Venus 96247-02-27 10:19 G 36874611.83 36874611.93 36874612.03 0.3627 0.0774

Mars 96248-11-09 02:09 G 36875232.50 36875232.59 36875232.67 0.1581 0.1128

Saturn 96250-01-19 15:07 G 36875669.11 36875669.13 36875669.15 0.0280 0.0274

Saturn 96250-04-18 01:40 G 36875757.46 36875757.57 36875757.69 0.0279 0.0139

Saturn 96250-07-15 12:28 G 36875845.89 36875846.02 36875846.15 0.0278 0.0007

Saturn 96250-10-11 23:02 G 36875934.34 36875934.46 36875934.57 0.0277 0.0127

Saturn 96251-01-08 09:36 G 36876022.86 36876022.90 36876022.94 0.0275 0.0257

Jupiter 96251-09-26 07:12 G 36876283.70 36876283.80 36876283.90 0.0514 0.0322

Jupiter 96251-12-24 11:02 G 36876372.86 36876372.96 36876373.05 0.0512 0.0330

Moon 96251-12-26 01:12 G 36876374.51 36876374.55 36876374.59 0.2645 0.2441

Earth 96251-12-26 01:26 G 36876374.51 36876374.56 36876374.61 0.2640 0.2340 *

Venus 96252-09-12 00:57 G 36876635.48 36876635.54 36876635.61 0.3625 0.2652

Mars 96253-07-26 12:43 G 36876952.91 36876953.03 36876953.16 0.1958 0.1242

Uranus 96254-02-21 21:50 G 36877163.40 36877163.41 36877163.43 0.0142 0.0140

Uranus 96254-05-21 01:12 G 36877251.49 36877251.55 36877251.63 0.0143 0.0119

Uranus 96254-08-17 04:48 G 36877339.61 36877339.70 36877339.80 0.0143 0.0098

Uranus 96254-11-13 08:09 G 36877427.74 36877427.84 36877427.96 0.0143 0.0077

Uranus 96255-02-09 11:45 G 36877515.87 36877515.99 36877516.11 0.0143 0.0055

Uranus 96255-05-08 15:07 G 36877604.01 36877604.13 36877604.26 0.0143 0.0034

Venus 96255-06-21 01:55 G 36877647.52 36877647.58 36877647.64 0.3747 0.3494

Uranus 96255-08-04 18:43 G 36877692.15 36877692.28 36877692.41 0.0143 0.0012

Uranus 96255-10-31 22:19 G 36877780.30 36877780.43 36877780.56 0.0143 0.0011

Uranus 96256-01-28 01:40 G 36877868.44 36877868.57 36877868.70 0.0143 0.0032

Uranus 96256-04-25 05:02 G 36877956.60 36877956.71 36877956.84 0.0143 0.0054

Mars 96256-04-26 12:57 G 36877957.94 36877958.04 36877958.14 0.1589 0.0766

Uranus 96256-07-22 08:38 G 36878044.75 36878044.86 36878044.97 0.0143 0.0076

Uranus 96256-10-18 12:14 G 36878132.92 36878133.01 36878133.11 0.0143 0.0097

Uranus 96257-01-14 15:50 G 36878221.09 36878221.16 36878221.23 0.0143 0.0119

Uranus 96257-04-12 19:12 G 36878309.29 36878309.30 36878309.32 0.0143 0.0141

Jupiter 96257-11-17 13:40 G 36878528.02 36878528.07 36878528.13 0.0512 0.0489

Mars 96258-04-01 13:40 G 36878662.97 36878663.07 36878663.18 0.1582 0.0756

Mars 96262-12-16 04:48 G 36880382.53 36880382.70 36880382.86 0.1955 0.0179

Jupiter 96263-07-15 12:14 G 36880593.97 36880594.01 36880594.06 0.0514 0.0477

Jupiter 96263-10-12 16:04 G 36880683.05 36880683.17 36880683.29 0.0512 0.0177

Earth 96264-12-27 18:43 G 36881125.17 36881125.28 36881125.38 0.2638 0.0927

Moon 96264-12-27 18:57 G 36881125.19 36881125.29 36881125.39 0.2645 0.0837 *

Mars 96265-09-17 00:43 G 36881388.45 36881388.53 36881388.61 0.1591 0.1132

Saturn 96266-07-23 13:55 G 36881698.06 36881698.08 36881698.12 0.0283 0.0279

Saturn 96266-10-20 14:52 G 36881786.94 36881787.12 36881787.31 0.0284 0.0068

Saturn 96267-01-17 15:36 G 36881875.99 36881876.15 36881876.32 0.0286 0.0146

Mars 96267-08-23 01:26 G 36882093.45 36882093.56 36882093.68 0.1584 0.0387

Jupiter 96269-12-05 00:57 G 36882928.38 36882928.54 36882928.70 0.0514 0.0280

Mars 96272-05-06 19:40 G 36883812.23 36883812.32 36883812.40 0.1951 0.1650

Mars 96275-02-07 12:28 G 36884818.99 36884819.02 36884819.06 0.1593 0.1505

Jupiter 96275-07-31 20:52 G 36884993.24 36884993.37 36884993.49 0.0512 0.0019

Mars 96277-01-12 13:12 G 36885523.94 36885524.05 36885524.17 0.1585 0.0040

Earth 96277-12-30 12:00 G 36885875.89 36885876.00 36885876.10 0.2637 0.0514

Moon 96277-12-30 12:28 G 36885875.92 36885876.02 36885876.13 0.2639 0.0602 *

Mars 96278-12-18 14:24 G 36886229.08 36886229.10 36886229.12 0.1580 0.1542

Saturn 96279-09-05 03:36 G 36886489.55 36886489.65 36886489.74 0.0280 0.0189

Saturn 96279-12-02 14:09 G 36886577.97 36886578.09 36886578.22 0.0279 0.0055

Saturn 96280-02-29 00:43 G 36886666.41 36886666.53 36886666.66 0.0278 0.0080

Saturn 96280-05-27 11:16 G 36886754.89 36886754.97 36886755.06 0.0276 0.0211

Moon 96281-07-02 23:16 G 36887156.31 36887156.47 36887156.63 0.2698 0.0380

Earth 96281-07-03 00:57 G 36887156.39 36887156.54 36887156.69 0.2695 0.0653 *

Jupiter 96281-09-22 20:52 G 36887238.19 36887238.37 36887238.56 0.0514 0.0032

Mars 96286-06-05 00:57 G 36888954.43 36888954.54 36888954.66 0.1587 0.0361

Jupiter 96287-05-20 01:40 G 36889303.45 36889303.57 36889303.70 0.0512 0.0141

Jupiter 96287-08-17 05:31 G 36889392.72 36889392.73 36889392.74 0.0510 0.0507

Mars 96288-05-10 01:55 G 36889659.51 36889659.58 36889659.66 0.1581 0.1169

Earth 96291-01-02 05:16 G 36890626.65 36890626.72 36890626.79 0.2636 0.1952

Moon 96291-01-02 06:00 G 36890626.68 36890626.75 36890626.82 0.2634 0.2023 *

Venus 96292-09-04 01:55 G 36891237.50 36891237.58 36891237.65 0.3630 0.2333

Mars 96293-01-24 13:55 G 36891379.96 36891380.08 36891380.20 0.1957 0.1348

Jupiter 96293-07-11 17:31 G 36891548.06 36891548.23 36891548.40 0.0513 0.0210

Uranus 96295-09-11 15:50 G 36892340.06 36892340.16 36892340.29 0.0135 0.0111

Mars 96295-10-26 12:57 G 36892384.93 36892385.04 36892385.14 0.1589 0.0729

Uranus 96295-12-08 23:31 G 36892428.34 36892428.48 36892428.65 0.0135 0.0083

Uranus 96296-03-06 07:26 G 36892516.63 36892516.81 36892516.99 0.0135 0.0055

Saturn 96296-03-08 10:48 G 36892518.79 36892518.95 36892519.11 0.0283 0.0147

Uranus 96296-06-02 14:52 G 36892604.93 36892605.12 36892605.31 0.0135 0.0027

Saturn 96296-06-05 11:31 G 36892607.80 36892607.98 36892608.17 0.0285 0.0065

Uranus 96296-08-29 22:33 G 36892693.24 36892693.44 36892693.63 0.0135 0.0002

Saturn 96296-09-02 12:14 G 36892696.98 36892697.01 36892697.05 0.0286 0.0279

Uranus 96296-11-26 05:45 G 36892781.56 36892781.74 36892781.94 0.0135 0.0029

Uranus 96297-02-22 13:26 G 36892869.88 36892870.06 36892870.24 0.0135 0.0055

Uranus 96297-05-21 20:52 G 36892958.22 36892958.37 36892958.53 0.0135 0.0082

Uranus 96297-08-18 04:19 G 36893046.57 36893046.68 36893046.80 0.0135 0.0109

Mars 96297-09-30 13:40 G 36893089.97 36893090.07 36893090.17 0.1582 0.0793

Moon 96297-12-26 06:00 G 36893176.68 36893176.75 36893176.82 0.2645 0.2029

Earth 96297-12-26 06:14 G 36893176.69 36893176.76 36893176.82 0.2639 0.2059 *

Venus 96298-03-20 16:48 G 36893261.10 36893261.20 36893261.30 0.3628 0.0458

Jupiter 96299-03-08 06:28 G 36893613.67 36893613.77 36893613.87 0.0513 0.0304

Jupiter 96299-06-05 10:04 G 36893702.83 36893702.92 36893703.01 0.0511 0.0346

Neptune 96302-03-16 06:14 G 36894716.69 36894716.76 36894716.86 0.0090 0.0081

Neptune 96302-06-12 10:04 G 36894804.81 36894804.92 36894805.06 0.0090 0.0070

Mars 96302-06-17 05:16 G 36894809.55 36894809.72 36894809.88 0.1955 0.0110

Neptune 96302-09-08 14:09 G 36894892.95 36894893.09 36894893.24 0.0090 0.0058

Neptune 96302-12-05 18:00 G 36894981.09 36894981.25 36894981.42 0.0090 0.0047

Neptune 96303-03-03 21:50 G 36895069.23 36895069.41 36895069.59 0.0090 0.0036

Neptune 96303-05-31 01:26 G 36895157.38 36895157.56 36895157.75 0.0090 0.0025

Neptune 96303-08-27 05:16 G 36895245.53 36895245.72 36895245.92 0.0090 0.0014

Venus 96303-10-05 07:26 G 36895284.72 36895284.81 36895284.90 0.3626 0.1440

Neptune 96303-11-23 09:07 G 36895333.68 36895333.88 36895334.08 0.0090 0.0003

Neptune 96304-02-19 12:43 G 36895421.84 36895422.03 36895422.23 0.0090 0.0009

Neptune 96304-05-17 16:33 G 36895510.00 36895510.19 36895510.38 0.0090 0.0019

Neptune 96304-08-13 20:09 G 36895598.17 36895598.34 36895598.53 0.0090 0.0031

Neptune 96304-11-09 23:45 G 36895686.33 36895686.49 36895686.68 0.0090 0.0042

Neptune 96305-02-06 03:21 G 36895774.50 36895774.64 36895774.82 0.0090 0.0053

Mars 96305-03-19 00:43 G 36895815.44 36895815.53 36895815.61 0.1591 0.1100

Jupiter 96305-04-30 13:40 G 36895857.99 36895858.07 36895858.16 0.0512 0.0455

Neptune 96305-05-05 07:12 G 36895862.68 36895862.80 36895862.95 0.0090 0.0064

Neptune 96305-08-01 10:48 G 36895950.87 36895950.95 36895951.08 0.0090 0.0075

Neptune 96305-10-28 14:52 G 36896039.07 36896039.12 36896039.19 0.0090 0.0085

Venus 96306-07-12 14:52 G 36896296.01 36896296.12 36896296.23 0.3745 0.2739

Mars 96307-02-22 01:26 G 36896520.45 36896520.56 36896520.68 0.1584 0.0423

Saturn 96309-01-23 04:48 G 36897221.64 36897221.70 36897221.77 0.0280 0.0243

Venus 96309-04-19 22:19 G 36897308.39 36897308.43 36897308.47 0.3625 0.3320

Saturn 96309-04-21 15:36 G 36897310.03 36897310.15 36897310.27 0.0279 0.0107

Saturn 96309-07-19 02:09 G 36897398.46 36897398.59 36897398.72 0.0278 0.0028

Saturn 96309-10-15 12:57 G 36897486.93 36897487.04 36897487.14 0.0277 0.0159

Jupiter 96310-12-26 11:16 G 36897923.92 36897923.97 36897924.03 0.0514 0.0463

Earth 96310-12-29 23:16 G 36897927.37 36897927.47 36897927.58 0.2638 0.0639

Moon 96310-12-29 23:45 G 36897927.38 36897927.49 36897927.59 0.2644 0.0633 *

Jupiter 96311-03-25 15:07 G 36898013.01 36898013.13 36898013.25 0.0512 0.0189

Mars 96311-11-06 20:38 G 36898239.26 36898239.36 36898239.46 0.1952 0.1545

Moon 96314-07-01 21:36 G 36899207.32 36899207.40 36899207.47 0.2694 0.2372

Earth 96314-07-01 23:16 G 36899207.38 36899207.47 36899207.56 0.2694 0.2200 *

Mars 96314-08-09 12:28 G 36899245.98 36899246.02 36899246.07 0.1593 0.1467

Mars 96316-07-14 13:12 G 36899950.93 36899951.05 36899951.17 0.1585 0.0051

Jupiter 96317-05-18 00:28 G 36900258.37 36900258.52 36900258.67 0.0514 0.0307

Jupiter 96323-01-11 20:09 G 36902323.21 36902323.34 36902323.47 0.0513 0.0035

Earth 96324-01-01 16:48 G 36902678.09 36902678.20 36902678.30 0.2637 0.0806

Moon 96324-01-01 17:16 G 36902678.12 36902678.22 36902678.33 0.2638 0.0939 *

Saturn 96325-07-27 06:14 G 36903250.66 36903250.76 36903250.88 0.0283 0.0230

Saturn 96325-10-24 07:12 G 36903339.61 36903339.80 36903339.99 0.0284 0.0019

Mars 96325-12-05 00:57 G 36903381.43 36903381.54 36903381.66 0.1587 0.0323

Saturn 96326-01-21 07:55 G 36903428.69 36903428.83 36903428.97 0.0286 0.0195

Moon 96327-07-05 06:00 G 36903958.61 36903958.75 36903958.90 0.2698 0.1089

Earth 96327-07-05 07:40 G 36903958.68 36903958.82 36903958.96 0.2695 0.1297 *

Mars 96327-11-10 01:55 G 36904086.51 36904086.58 36904086.66 0.1581 0.1208

Jupiter 96329-03-05 20:38 G 36904568.18 36904568.36 36904568.55 0.0513 0.0063

Pluto 96332-05-03 05:16 G 36905722.64 36905722.72 36905722.84 0.0061 0.0051

Mars 96332-07-26 14:52 G 36905807.01 36905807.12 36905807.23 0.1957 0.1449

Pluto 96332-07-30 06:14 G 36905810.65 36905810.76 36905810.92 0.0061 0.0041

Pluto 96332-10-26 07:55 G 36905898.67 36905898.83 36905899.00 0.0061 0.0030

Pluto 96333-01-22 08:52 G 36905986.71 36905986.87 36905987.06 0.0061 0.0020

Pluto 96333-04-20 10:33 G 36906074.75 36906074.94 36906075.12 0.0061 0.0009

Pluto 96333-07-17 11:45 G 36906162.80 36906162.99 36906163.17 0.0061 0.0001

Pluto 96333-10-13 12:57 G 36906250.86 36906251.04 36906251.22 0.0061 0.0012

Pluto 96334-01-09 13:40 G 36906338.92 36906339.07 36906339.26 0.0061 0.0023

Pluto 96334-04-07 15:07 G 36906426.98 36906427.13 36906427.30 0.0061 0.0033

Pluto 96334-07-04 16:04 G 36906515.06 36906515.17 36906515.32 0.0061 0.0044

Pluto 96334-09-30 17:31 G 36906603.15 36906603.23 36906603.33 0.0061 0.0054

Jupiter 96334-10-31 00:57 G 36906633.42 36906633.54 36906633.67 0.0512 0.0125

Mars 96335-04-27 12:43 G 36906811.93 36906812.03 36906812.14 0.1588 0.0693

Earth 96337-01-03 10:04 G 36907428.86 36907428.92 36907428.97 0.2636 0.2244

Moon 96337-01-03 10:33 G 36907428.90 36907428.94 36907428.99 0.2633 0.2354 *

Mars 96337-04-01 13:40 G 36907516.97 36907517.07 36907517.17 0.1582 0.0836

Uranus 96338-03-15 05:31 G 36907864.69 36907864.73 36907864.77 0.0143 0.0134

Uranus 96338-06-11 08:52 G 36907952.79 36907952.87 36907952.95 0.0143 0.0113

Uranus 96338-09-07 12:28 G 36908040.92 36908041.02 36908041.12 0.0143 0.0091

Saturn 96338-09-08 17:16 G 36908042.11 36908042.22 36908042.33 0.0280 0.0158

Uranus 96338-12-04 15:50 G 36908129.05 36908129.16 36908129.28 0.0143 0.0070

Saturn 96338-12-06 04:04 G 36908130.54 36908130.67 36908130.80 0.0279 0.0025

Uranus 96339-03-02 19:12 G 36908217.18 36908217.30 36908217.43 0.0143 0.0048

Saturn 96339-03-04 14:38 G 36908218.99 36908219.11 36908219.23 0.0278 0.0110

Uranus 96339-05-29 22:48 G 36908305.32 36908305.45 36908305.58 0.0143 0.0026

Saturn 96339-06-01 01:12 G 36908307.49 36908307.55 36908307.61 0.0276 0.0242

Uranus 96339-08-26 02:09 G 36908393.46 36908393.59 36908393.73 0.0143 0.0007

Uranus 96339-11-22 05:45 G 36908481.61 36908481.74 36908481.87 0.0143 0.0017

Uranus 96340-02-18 09:07 G 36908569.76 36908569.88 36908570.01 0.0143 0.0039

Uranus 96340-05-16 12:43 G 36908657.91 36908658.03 36908658.15 0.0143 0.0061

Uranus 96340-08-12 16:19 G 36908746.07 36908746.18 36908746.29 0.0143 0.0082

Uranus 96340-11-08 19:40 G 36908834.24 36908834.32 36908834.41 0.0143 0.0105

Jupiter 96340-12-22 16:33 G 36908878.01 36908878.19 36908878.36 0.0513 0.0193

Uranus 96341-02-04 23:16 G 36908922.41 36908922.47 36908922.53 0.0143 0.0126

Mars 96341-12-16 06:14 G 36909236.60 36909236.76 36909236.93 0.1955 0.0034

Venus 96343-09-27 08:24 G 36909886.83 36909886.85 36909886.86 0.3631 0.3549

Earth 96343-12-28 10:48 G 36909978.87 36909978.95 36909979.03 0.2639 0.1770

Moon 96343-12-28 10:48 G 36909978.88 36909978.95 36909979.03 0.2646 0.1833 *

Mars 96344-09-17 00:43 G 36910242.44 36910242.53 36910242.61 0.1591 0.1064

Jupiter 96346-08-19 06:00 G 36910943.65 36910943.75 36910943.86 0.0513 0.0279

Mars 96346-08-23 01:26 G 36910947.45 36910947.56 36910947.67 0.1583 0.0461

Jupiter 96346-11-16 09:50 G 36911032.82 36911032.91 36911032.99 0.0511 0.0369

Venus 96349-04-11 23:02 G 36911910.38 36911910.46 36911910.55 0.3629 0.1661

Mars 96351-05-07 21:36 G 36912666.29 36912666.40 36912666.51 0.1952 0.1453

Jupiter 96352-10-10 12:57 G 36913187.95 36913188.04 36913188.14 0.0513 0.0433

Mars 96354-02-07 12:28 G 36913672.97 36913673.02 36913673.07 0.1593 0.1431

Venus 96354-10-26 13:55 G 36913933.98 36913934.08 36913934.18 0.3627 0.0234

Saturn 96355-03-13 03:07 G 36914071.45 36914071.63 36914071.81 0.0283 0.0097

Saturn 96355-06-10 03:36 G 36914160.49 36914160.65 36914160.83 0.0285 0.0116

Mars 96356-01-13 13:12 G 36914377.93 36914378.05 36914378.17 0.1585 0.0089

Earth 96356-12-30 04:04 G 36914729.56 36914729.67 36914729.78 0.2638 0.0350

Moon 96356-12-30 04:33 G 36914729.58 36914729.69 36914729.80 0.2643 0.0234 *

Jupiter 96358-06-07 10:48 G 36915253.89 36915253.95 36915254.01 0.0513 0.0443

Jupiter 96358-09-04 14:24 G 36915342.99 36915343.10 36915343.22 0.0511 0.0206

Venus 96360-05-11 04:48 G 36915957.62 36915957.70 36915957.78 0.3626 0.2114

Moon 96360-07-02 04:19 G 36916009.57 36916009.68 36916009.79 0.2695 0.1919

Earth 96360-07-02 06:00 G 36916009.62 36916009.75 36916009.88 0.2694 0.1547 *

Venus 96363-02-16 18:28 G 36916969.10 36916969.27 36916969.43 0.3746 0.0138

Jupiter 96364-10-28 00:28 G 36917588.38 36917588.52 36917588.66 0.0514 0.0340

Mars 96365-06-05 00:57 G 36917808.43 36917808.54 36917808.66 0.1587 0.0283

Mars 96367-05-11 01:55 G 36918513.51 36918513.58 36918513.65 0.1581 0.1247

Saturn 96368-01-26 18:43 G 36918774.20 36918774.28 36918774.36 0.0281 0.0211

Saturn 96368-04-24 05:31 G 36918862.60 36918862.73 36918862.85 0.0279 0.0075

Saturn 96368-07-21 16:04 G 36918951.04 36918951.17 36918951.30 0.0278 0.0059

Saturn 96368-10-18 02:38 G 36919039.52 36919039.61 36919039.71 0.0277 0.0192

Earth 96370-01-01 21:21 G 36919480.29 36919480.39 36919480.49 0.2637 0.1093

Moon 96370-01-01 22:04 G 36919480.33 36919480.42 36919480.52 0.2637 0.1160 *

Jupiter 96370-06-23 19:12 G 36919653.18 36919653.30 36919653.43 0.0512 0.0051

Mars 96372-01-25 15:21 G 36920234.04 36920234.14 36920234.24 0.1958 0.1535

Moon 96373-07-05 13:12 G 36920760.93 36920761.05 36920761.17 0.2699 0.1774

Earth 96373-07-05 14:24 G 36920761.00 36920761.10 36920761.21 0.2695 0.1941 *

Mars 96374-10-26 12:43 G 36921238.93 36921239.03 36921239.14 0.1589 0.0655

Jupiter 96376-08-15 20:09 G 36921898.15 36921898.34 36921898.52 0.0513 0.0087

Mars 96376-09-30 13:40 G 36921943.97 36921944.07 36921944.17 0.1582 0.0874

Uranus 96379-07-06 16:33 G 36922953.14 36922953.19 36922953.28 0.0135 0.0127

Uranus 96379-10-03 00:28 G 36923041.39 36923041.52 36923041.66 0.0135 0.0099

Uranus 96379-12-30 07:55 G 36923129.68 36923129.83 36923130.01 0.0135 0.0071

Uranus 96380-03-27 15:36 G 36923217.97 36923218.15 36923218.34 0.0135 0.0044

Uranus 96380-06-23 23:16 G 36923306.28 36923306.47 36923306.67 0.0135 0.0016

Uranus 96380-09-20 06:43 G 36923394.59 36923394.78 36923394.98 0.0135 0.0012

Uranus 96380-12-17 14:09 G 36923482.91 36923483.09 36923483.28 0.0135 0.0039

Uranus 96381-03-15 21:36 G 36923571.24 36923571.40 36923571.58 0.0135 0.0066

Uranus 96381-06-12 05:02 G 36923659.58 36923659.71 36923659.86 0.0135 0.0093

Mars 96381-06-16 07:26 G 36923663.64 36923663.81 36923663.97 0.1955 0.0119

Uranus 96381-09-08 12:28 G 36923747.94 36923748.02 36923748.12 0.0135 0.0120

Jupiter 96382-04-12 00:14 G 36923963.39 36923963.51 36923963.64 0.0513 0.0108

Neptune 96383-01-01 05:45 G 36924227.72 36924227.74 36924227.80 0.0088 0.0084

Earth 96383-01-04 14:52 G 36924231.09 36924231.12 36924231.14 0.2636 0.2538

Moon 96383-01-04 15:21 G 36924231.13 36924231.14 36924231.14 0.2632 0.2619 *

Neptune 96383-03-30 07:12 G 36924315.75 36924315.80 36924315.87 0.0088 0.0077

Neptune 96383-06-26 08:24 G 36924403.78 36924403.85 36924403.94 0.0088 0.0070

Neptune 96383-09-22 09:50 G 36924491.82 36924491.91 36924492.00 0.0088 0.0063

Neptune 96383-12-19 11:02 G 36924579.86 36924579.96 36924580.07 0.0088 0.0056

Neptune 96384-03-16 12:14 G 36924667.91 36924668.01 36924668.13 0.0088 0.0049

Mars 96384-03-18 00:43 G 36924669.44 36924669.53 36924669.61 0.1590 0.1024

Neptune 96384-06-12 13:40 G 36924755.95 36924756.07 36924756.19 0.0088 0.0042

Saturn 96384-07-29 23:02 G 36924803.32 36924803.46 36924803.61 0.0283 0.0176

Neptune 96384-09-08 14:52 G 36924844.00 36924844.12 36924844.24 0.0088 0.0035

Saturn 96384-10-26 23:45 G 36924892.30 36924892.49 36924892.68 0.0284 0.0036

Neptune 96384-12-05 16:04 G 36924932.05 36924932.17 36924932.30 0.0088 0.0028

Saturn 96385-01-24 00:28 G 36924981.43 36924981.52 36924981.61 0.0286 0.0248

Neptune 96385-03-03 17:31 G 36925020.10 36925020.23 36925020.35 0.0088 0.0021

Neptune 96385-05-30 18:43 G 36925108.15 36925108.28 36925108.41 0.0088 0.0014

Neptune 96385-08-26 19:55 G 36925196.20 36925196.33 36925196.46 0.0088 0.0007

Neptune 96385-11-22 21:07 G 36925284.25 36925284.38 36925284.52 0.0088 0.0002

Neptune 96386-02-18 22:19 G 36925372.30 36925372.43 36925372.57 0.0088 0.0008

Mars 96386-02-21 01:26 G 36925374.45 36925374.56 36925374.67 0.1583 0.0501

Neptune 96386-05-17 23:45 G 36925460.36 36925460.49 36925460.62 0.0088 0.0014

Neptune 96386-08-14 00:57 G 36925548.41 36925548.54 36925548.67 0.0088 0.0021

Neptune 96386-11-10 02:09 G 36925636.47 36925636.59 36925636.72 0.0088 0.0028

Neptune 96387-02-06 03:21 G 36925724.53 36925724.64 36925724.77 0.0088 0.0035

Neptune 96387-05-05 04:33 G 36925812.58 36925812.69 36925812.81 0.0088 0.0042

Neptune 96387-08-01 06:00 G 36925900.64 36925900.75 36925900.86 0.0088 0.0049

Neptune 96387-10-28 07:12 G 36925988.70 36925988.80 36925988.91 0.0088 0.0056

Neptune 96388-01-24 08:24 G 36926076.77 36926076.85 36926076.95 0.0088 0.0063

Neptune 96388-04-21 09:36 G 36926164.83 36926164.90 36926164.99 0.0088 0.0070

Jupiter 96388-06-03 16:19 G 36926208.00 36926208.18 36926208.36 0.0513 0.0160

Neptune 96388-07-18 10:48 G 36926252.90 36926252.95 36926253.02 0.0088 0.0077

Neptune 96388-10-14 12:14 G 36926340.98 36926341.01 36926341.05 0.0088 0.0084

Moon 96389-12-28 15:36 G 36926781.06 36926781.15 36926781.24 0.2646 0.1427

Earth 96389-12-28 15:36 G 36926781.06 36926781.15 36926781.24 0.2639 0.1485 *

Mars 96390-11-05 22:19 G 36927093.31 36927093.43 36927093.55 0.1952 0.1351

Mars 96393-08-08 12:28 G 36928099.96 36928100.02 36928100.07 0.1593 0.1396

Jupiter 96394-01-29 05:16 G 36928273.61 36928273.72 36928273.83 0.0513 0.0263

Jupiter 96394-04-28 08:52 G 36928362.79 36928362.87 36928362.95 0.0511 0.0385

Mars 96395-07-14 13:12 G 36928804.93 36928805.05 36928805.17 0.1585 0.0129

Saturn 96397-06-14 20:24 G 36929506.31 36929506.35 36929506.40 0.0281 0.0261

Saturn 96397-09-11 07:12 G 36929594.68 36929594.80 36929594.92 0.0280 0.0125

Saturn 96397-12-08 18:00 G 36929683.12 36929683.25 36929683.38 0.0279 0.0012

Saturn 96398-03-07 04:33 G 36929771.58 36929771.69 36929771.80 0.0278 0.0144

Saturn 96398-06-03 15:07 G 36929860.13 36929860.13 36929860.14 0.0276 0.0275

Jupiter 96400-03-22 11:45 G 36930517.88 36930517.99 36930518.09 0.0513 0.0419

Venus 96400-05-03 05:31 G 36930559.67 36930559.73 36930559.79 0.3630 0.2869

Earth 96402-12-31 08:52 G 36931531.76 36931531.87 36931531.98 0.2638 0.0061

Moon 96402-12-31 09:21 G 36931531.78 36931531.89 36931532.00 0.2642 0.0074 *

Mars 96404-12-04 00:57 G 36932235.42 36932235.54 36932235.66 0.1586 0.0245

Venus 96405-11-16 20:24 G 36932583.25 36932583.35 36932583.45 0.3629 0.0977

Jupiter 96405-11-17 10:19 G 36932583.86 36932583.93 36932584.00 0.0513 0.0419

Jupiter 96406-02-14 13:55 G 36932672.97 36932673.08 36932673.19 0.0511 0.0229

Moon 96406-07-03 11:02 G 36932811.82 36932811.96 36932812.11 0.2695 0.1031

Earth 96406-07-03 12:57 G 36932811.89 36932812.04 36932812.19 0.2694 0.0880 *

Mars 96406-11-09 01:55 G 36932940.52 36932940.58 36932940.65 0.1581 0.1289

Venus 96411-06-02 11:16 G 36934606.87 36934606.97 36934607.06 0.3627 0.0916

Mars 96411-07-26 16:33 G 36934661.10 36934661.19 36934661.28 0.1958 0.1648

Jupiter 96412-04-08 23:16 G 36934918.34 36934918.47 36934918.60 0.0514 0.0358

Saturn 96413-12-16 19:40 G 36935535.24 36935535.32 36935535.42 0.0282 0.0247

Saturn 96414-03-15 20:24 G 36935624.16 36935624.35 36935624.54 0.0283 0.0038

Mars 96414-04-26 12:43 G 36935665.93 36935666.03 36935666.14 0.1588 0.0617

Saturn 96414-06-12 20:52 G 36935713.23 36935713.37 36935713.53 0.0285 0.0175

Earth 96416-01-03 02:09 G 36936282.50 36936282.59 36936282.68 0.2637 0.1383

Moon 96416-01-03 02:52 G 36936282.53 36936282.62 36936282.71 0.2637 0.1547 *

Mars 96416-03-31 13:40 G 36936370.97 36936371.07 36936371.17 0.1582 0.0911

Venus 96416-12-16 01:55 G 36936630.52 36936630.58 36936630.65 0.3625 0.2788

Jupiter 96417-12-03 18:28 G 36936983.15 36936983.27 36936983.40 0.0512 0.0066

Moon 96419-07-06 20:09 G 36937563.27 36937563.34 36937563.42 0.2701 0.2383

Earth 96419-07-06 21:21 G 36937563.35 36937563.39 36937563.43 0.2696 0.2590 *

Venus 96419-09-23 21:50 G 36937642.31 36937642.41 36937642.51 0.3747 0.2939

Mars 96420-12-15 07:55 G 36938090.67 36938090.83 36938091.00 0.1955 0.0197

Uranus 96422-04-04 12:57 G 36938565.99 36938566.04 36938566.10 0.0143 0.0127

Uranus 96422-07-01 16:33 G 36938654.10 36938654.19 36938654.27 0.0143 0.0106

Uranus 96422-09-27 19:55 G 36938742.23 36938742.33 36938742.44 0.0143 0.0085

Uranus 96422-12-24 23:16 G 36938830.36 36938830.47 36938830.59 0.0143 0.0063

Earth 96422-12-27 03:07 G 36938832.62 36938832.63 36938832.64 0.2640 0.2613

Uranus 96423-03-23 02:52 G 36938918.49 36938918.62 36938918.75 0.0143 0.0041

Uranus 96423-06-19 06:14 G 36939006.63 36939006.76 36939006.89 0.0143 0.0020

Uranus 96423-09-15 09:50 G 36939094.78 36939094.91 36939095.04 0.0143 0.0002

Mars 96423-09-17 00:28 G 36939096.43 36939096.52 36939096.61 0.1591 0.0988

Uranus 96423-12-12 13:12 G 36939182.92 36939183.05 36939183.18 0.0143 0.0024

Jupiter 96424-01-26 19:40 G 36939228.14 36939228.32 36939228.50 0.0514 0.0113

Uranus 96424-03-09 16:48 G 36939271.08 36939271.20 36939271.33 0.0143 0.0045

Uranus 96424-06-05 20:24 G 36939359.23 36939359.35 36939359.46 0.0143 0.0067

Uranus 96424-09-01 23:45 G 36939447.39 36939447.49 36939447.60 0.0143 0.0089

Uranus 96424-11-29 03:07 G 36939535.56 36939535.63 36939535.72 0.0143 0.0112

Uranus 96425-02-25 06:43 G 36939623.74 36939623.78 36939623.83 0.0143 0.0133

Mars 96425-08-22 01:26 G 36939801.45 36939801.56 36939801.67 0.1583 0.0540

Pluto 96425-08-23 22:19 G 36939803.39 36939803.43 36939803.48 0.0084 0.0079

Pluto 96425-11-19 23:16 G 36939891.39 36939891.47 36939891.58 0.0084 0.0060

Pluto 96426-02-16 00:43 G 36939979.42 36939979.53 36939979.66 0.0083 0.0040

Pluto 96426-05-15 02:09 G 36940067.46 36940067.59 36940067.73 0.0083 0.0020

Pluto 96426-08-11 03:36 G 36940155.51 36940155.65 36940155.78 0.0083 0.0002

Pluto 96426-11-07 04:33 G 36940243.56 36940243.69 36940243.83 0.0083 0.0020

Saturn 96427-01-29 08:38 G 36940326.77 36940326.86 36940326.96 0.0281 0.0177

Pluto 96427-02-03 06:00 G 36940331.63 36940331.75 36940331.87 0.0083 0.0039

Saturn 96427-04-27 19:26 G 36940415.18 36940415.31 36940415.44 0.0279 0.0041

Pluto 96427-05-02 06:57 G 36940419.71 36940419.79 36940419.90 0.0083 0.0059

Saturn 96427-07-25 06:14 G 36940503.64 36940503.76 36940503.88 0.0278 0.0094

Pluto 96427-07-29 08:24 G 36940507.81 36940507.85 36940507.90 0.0083 0.0078

Saturn 96427-10-21 16:48 G 36940592.13 36940592.20 36940592.28 0.0277 0.0226

Jupiter 96429-09-21 23:16 G 36941293.35 36941293.47 36941293.60 0.0512 0.0096

Mars 96430-05-06 23:16 G 36941520.34 36941520.47 36941520.60 0.1952 0.1254

Mars 96433-02-06 12:28 G 36942526.96 36942527.02 36942527.08 0.1593 0.1357

Mars 96435-01-12 13:12 G 36943231.93 36943232.05 36943232.16 0.1585 0.0170

Jupiter 96435-11-14 15:21 G 36943537.96 36943538.14 36943538.32 0.0513 0.0140

Earth 96435-12-29 20:24 G 36943583.25 36943583.35 36943583.45 0.2639 0.1193

Moon 96435-12-29 20:24 G 36943583.26 36943583.35 36943583.45 0.2646 0.1233 *

Jupiter 96441-07-11 04:19 G 36945603.57 36945603.68 36945603.79 0.0513 0.0252

Jupiter 96441-10-08 07:55 G 36945692.76 36945692.83 36945692.91 0.0511 0.0398

Saturn 96443-08-02 17:02 G 36946356.03 36946356.21 36946356.38 0.0283 0.0113

Saturn 96443-10-30 17:31 G 36946445.06 36946445.23 36946445.41 0.0284 0.0098

Mars 96444-06-04 00:57 G 36946662.43 36946662.54 36946662.66 0.1586 0.0205

Mars 96446-05-10 01:55 G 36947367.52 36947367.58 36947367.64 0.1581 0.1328

Jupiter 96447-09-02 11:16 G 36947847.85 36947847.97 36947848.09 0.0513 0.0389

Earth 96448-12-31 13:40 G 36948333.96 36948334.07 36948334.18 0.2638 0.0234

Moon 96448-12-31 14:24 G 36948333.99 36948334.10 36948334.20 0.2641 0.0403 *

Mars 96451-01-24 17:16 G 36949088.15 36949088.22 36949088.30 0.1958 0.1743

Moon 96452-07-03 18:14 G 36949614.10 36949614.26 36949614.41 0.2696 0.0584

Earth 96452-07-03 19:55 G 36949614.17 36949614.33 36949614.49 0.2694 0.0218 *

Jupiter 96453-04-29 09:21 G 36949913.82 36949913.89 36949913.97 0.0513 0.0407

Jupiter 96453-07-27 12:57 G 36950002.93 36950003.04 36950003.15 0.0511 0.0242

Mars 96453-10-25 12:43 G 36950092.92 36950093.03 36950093.14 0.1588 0.0578

Mars 96455-09-30 13:40 G 36950797.98 36950798.07 36950798.16 0.1582 0.0955

Saturn 96456-06-17 10:33 G 36951058.87 36951058.94 36951059.02 0.0281 0.0224

Saturn 96456-09-13 21:21 G 36951147.27 36951147.39 36951147.52 0.0280 0.0087

Venus 96456-12-08 02:52 G 36951232.54 36951232.62 36951232.70 0.3630 0.2185

Saturn 96456-12-11 08:09 G 36951235.71 36951235.84 36951235.97 0.0279 0.0048

Saturn 96457-03-09 18:43 G 36951324.19 36951324.28 36951324.38 0.0278 0.0182

Jupiter 96459-09-19 21:36 G 36952248.27 36952248.40 36952248.53 0.0515 0.0365

Mars 96460-06-15 08:52 G 36952517.71 36952517.87 36952518.04 0.1956 0.0306

Earth 96462-01-03 06:57 G 36953084.71 36953084.79 36953084.87 0.2637 0.1675

Moon 96462-01-03 07:40 G 36953084.74 36953084.82 36953084.90 0.2636 0.1722 *

Venus 96462-06-23 17:45 G 36953256.14 36953256.24 36953256.34 0.3628 0.0330

Mars 96463-03-18 00:28 G 36953523.43 36953523.52 36953523.61 0.1590 0.0952

Uranus 96463-07-27 01:12 G 36953654.46 36953654.55 36953654.66 0.0135 0.0115

Uranus 96463-10-23 08:38 G 36953742.73 36953742.86 36953743.03 0.0135 0.0088

Uranus 96464-01-19 16:33 G 36953831.02 36953831.19 36953831.37 0.0135 0.0059

Uranus 96464-04-17 00:00 G 36953919.32 36953919.50 36953919.70 0.0135 0.0032

Uranus 96464-07-14 07:40 G 36954007.62 36954007.82 36954008.01 0.0135 0.0005

Uranus 96464-10-10 15:07 G 36954095.94 36954096.13 36954096.32 0.0135 0.0023

Uranus 96465-01-06 22:33 G 36954184.26 36954184.44 36954184.63 0.0135 0.0050

Mars 96465-02-20 01:26 G 36954228.45 36954228.56 36954228.67 0.1583 0.0580

Uranus 96465-04-05 06:00 G 36954272.60 36954272.75 36954272.91 0.0135 0.0077

Jupiter 96465-05-15 18:00 G 36954313.13 36954313.25 36954313.38 0.0511 0.0086

Uranus 96465-07-02 13:26 G 36954360.94 36954361.06 36954361.19 0.0135 0.0104

Uranus 96465-09-28 20:38 G 36954449.33 36954449.36 36954449.42 0.0135 0.0131

Neptune 96466-09-14 00:00 G 36954799.50 36954799.50 36954799.51 0.0090 0.0090

Neptune 96466-12-11 03:21 G 36954887.57 36954887.64 36954887.75 0.0090 0.0079

Neptune 96467-03-09 07:12 G 36954975.69 36954975.80 36954975.95 0.0090 0.0068

Neptune 96467-06-05 11:02 G 36955063.82 36955063.96 36955064.13 0.0090 0.0057

Neptune 96467-09-01 14:52 G 36955151.97 36955152.12 36955152.30 0.0090 0.0046

Neptune 96467-11-28 18:43 G 36955240.11 36955240.28 36955240.47 0.0090 0.0035

Venus 96468-01-07 08:24 G 36955279.76 36955279.85 36955279.94 0.3626 0.1586

Neptune 96468-02-24 22:33 G 36955328.26 36955328.44 36955328.64 0.0090 0.0023

Neptune 96468-05-23 02:24 G 36955416.41 36955416.60 36955416.80 0.0090 0.0012

Neptune 96468-08-19 06:14 G 36955504.57 36955504.76 36955504.96 0.0090 0.0001

Neptune 96468-11-15 10:04 G 36955592.72 36955592.92 36955593.11 0.0090 0.0010

Moon 96468-12-27 07:40 G 36955634.78 36955634.82 36955634.87 0.2646 0.2366

Earth 96468-12-27 07:55 G 36955634.78 36955634.83 36955634.88 0.2640 0.2327 *

Neptune 96469-02-11 13:40 G 36955680.89 36955681.07 36955681.27 0.0090 0.0021

Neptune 96469-05-10 17:31 G 36955769.05 36955769.23 36955769.41 0.0090 0.0032

Neptune 96469-08-06 21:07 G 36955857.22 36955857.38 36955857.56 0.0090 0.0043

Neptune 96469-11-03 00:57 G 36955945.39 36955945.54 36955945.70 0.0090 0.0054

Mars 96469-11-05 00:14 G 36955947.38 36955947.51 36955947.65 0.1952 0.1151

Neptune 96470-01-30 04:33 G 36956033.57 36956033.69 36956033.83 0.0090 0.0065

Neptune 96470-04-28 08:24 G 36956121.75 36956121.85 36956121.96 0.0090 0.0076

Neptune 96470-07-25 12:00 G 36956209.97 36956210.00 36956210.06 0.0090 0.0087

Venus 96470-10-14 10:48 G 36956290.87 36956290.95 36956291.02 0.3745 0.3300

Jupiter 96471-07-08 18:00 G 36956558.07 36956558.25 36956558.43 0.0514 0.0121

Mars 96472-08-07 12:28 G 36956953.95 36956954.02 36956954.08 0.1593 0.1322

Saturn 96472-12-19 14:24 G 36957087.96 36957088.10 36957088.25 0.0282 0.0178

Saturn 96473-03-18 15:07 G 36957176.94 36957177.13 36957177.32 0.0283 0.0032

Saturn 96473-06-15 15:36 G 36957266.06 36957266.15 36957266.25 0.0285 0.0244

Venus 96473-07-22 23:16 G 36957303.44 36957303.47 36957303.50 0.3625 0.3459

Mars 96474-07-13 13:12 G 36957658.93 36957659.05 36957659.16 0.1585 0.0210

Jupiter 96477-03-03 22:33 G 36958623.31 36958623.44 36958623.56 0.0512 0.0081

Moon 96481-12-30 01:26 G 36960385.45 36960385.56 36960385.66 0.2645 0.0853

Earth 96481-12-30 01:12 G 36960385.45 36960385.55 36960385.65 0.2639 0.0907 *

Jupiter 96483-04-26 14:24 G 36960867.92 36960868.10 36960868.28 0.0513 0.0123

Mars 96483-12-04 00:57 G 36961089.42 36961089.54 36961089.66 0.1586 0.0168

Saturn 96485-11-04 12:28 G 36961790.99 36961791.02 36961791.05 0.0282 0.0273

Mars 96485-11-08 01:55 G 36961794.52 36961794.58 36961794.64 0.1581 0.1369

Saturn 96486-01-31 23:16 G 36961879.36 36961879.47 36961879.58 0.0281 0.0135

Saturn 96486-04-30 10:04 G 36961967.79 36961967.92 36961968.05 0.0279 0.0006

Saturn 96486-07-27 20:38 G 36962056.25 36962056.36 36962056.48 0.0278 0.0135

Saturn 96486-10-24 07:26 G 36962144.78 36962144.81 36962144.84 0.0277 0.0267

Jupiter 96488-12-21 03:21 G 36962933.53 36962933.64 36962933.75 0.0513 0.0243

Jupiter 96489-03-20 06:57 G 36963022.71 36963022.79 36963022.86 0.0511 0.0405

Mars 96490-07-25 18:00 G 36963515.20 36963515.25 36963515.31 0.1958 0.1838

Mars 96493-04-25 12:43 G 36964519.92 36964520.03 36964520.14 0.1588 0.0539

Earth 96495-01-01 18:28 G 36965136.16 36965136.27 36965136.38 0.2638 0.0529

Moon 96495-01-01 19:12 G 36965136.19 36965136.30 36965136.40 0.2640 0.0586 *

Jupiter 96495-02-12 09:50 G 36965177.79 36965177.91 36965178.04 0.0513 0.0377

Mars 96495-03-31 13:40 G 36965224.98 36965225.07 36965225.16 0.1582 0.0993

Moon 96498-07-05 01:12 G 36966416.39 36966416.55 36966416.70 0.2697 0.0327

Earth 96498-07-05 02:38 G 36966416.46 36966416.61 36966416.77 0.2695 0.0440 *

Mars 96499-12-15 10:04 G 36966944.76 36966944.92 36966945.09 0.1956 0.0420

Jupiter 96500-10-10 08:09 G 36967243.76 36967243.84 36967243.92 0.0513 0.0402

Jupiter 96501-01-07 11:45 G 36967332.88 36967332.99 36967333.10 0.0512 0.0249

Saturn 96502-05-09 11:45 G 36967819.91 36967819.99 36967820.10 0.0282 0.0245

Saturn 96502-08-06 12:28 G 36967908.84 36967909.02 36967909.21 0.0283 0.0036

Mars 96502-09-17 00:28 G 36967950.43 36967950.52 36967950.62 0.1590 0.0910

Saturn 96502-11-03 12:57 G 36967997.90 36967998.04 36967998.20 0.0285 0.0177

Mars 96504-08-22 01:26 G 36968655.45 36968655.56 36968655.67 0.1583 0.0621

Uranus 96506-04-25 19:55 G 36969267.27 36969267.33 36969267.40 0.0143 0.0124

Uranus 96506-07-22 23:16 G 36969355.39 36969355.47 36969355.57 0.0143 0.0103

Uranus 96506-10-19 02:52 G 36969443.51 36969443.62 36969443.73 0.0143 0.0081

Uranus 96507-01-15 06:14 G 36969531.65 36969531.76 36969531.88 0.0143 0.0060

Jupiter 96507-03-02 20:52 G 36969578.25 36969578.37 36969578.49 0.0514 0.0387

Uranus 96507-04-13 09:50 G 36969619.78 36969619.91 36969620.04 0.0143 0.0038

Uranus 96507-07-10 13:12 G 36969707.92 36969708.05 36969708.19 0.0143 0.0017

Uranus 96507-10-06 16:48 G 36969796.07 36969796.20 36969796.33 0.0143 0.0005

Venus 96507-12-31 09:21 G 36969881.85 36969881.89 36969881.92 0.3631 0.3396

Uranus 96508-01-02 20:09 G 36969884.22 36969884.34 36969884.47 0.0143 0.0028

Earth 96508-01-05 11:45 G 36969886.92 36969886.99 36969887.06 0.2637 0.1969

Moon 96508-01-05 12:14 G 36969886.95 36969887.01 36969887.08 0.2634 0.2122 *

Uranus 96508-03-30 23:45 G 36969972.37 36969972.49 36969972.61 0.0143 0.0049

Uranus 96508-06-27 03:07 G 36970060.52 36970060.63 36970060.75 0.0143 0.0071

Uranus 96508-09-23 06:43 G 36970148.68 36970148.78 36970148.88 0.0143 0.0093

Uranus 96508-12-20 10:19 G 36970236.85 36970236.93 36970237.01 0.0143 0.0115

Uranus 96509-03-18 13:55 G 36970325.04 36970325.08 36970325.11 0.0143 0.0137

Mars 96509-05-07 00:57 G 36970374.40 36970374.54 36970374.68 0.1952 0.1059

Mars 96512-02-07 12:14 G 36971380.95 36971381.01 36971381.08 0.1593 0.1287

Jupiter 96512-10-26 16:48 G 36971643.08 36971643.20 36971643.33 0.0512 0.0094

Venus 96513-07-16 00:00 G 36971905.41 36971905.50 36971905.60 0.3629 0.1515

Mars 96514-01-12 13:12 G 36972085.93 36972086.05 36972086.16 0.1585 0.0251

Moon 96514-12-29 12:28 G 36972436.96 36972437.02 36972437.08 0.2647 0.2098

Earth 96514-12-29 12:43 G 36972436.96 36972437.03 36972437.10 0.2640 0.2040 *

Saturn 96515-06-22 01:26 G 36972611.46 36972611.56 36972611.66 0.0281 0.0180

Saturn 96515-09-18 12:14 G 36972699.88 36972700.01 36972700.14 0.0280 0.0043

Saturn 96515-12-15 22:48 G 36972788.33 36972788.45 36972788.58 0.0279 0.0093

Saturn 96516-03-13 09:36 G 36972876.83 36972876.90 36972876.98 0.0277 0.0225

Jupiter 96518-12-19 15:36 G 36973887.97 36973888.15 36973888.34 0.0514 0.0121

Venus 96519-01-29 14:52 G 36973929.02 36973929.12 36973929.22 0.3628 0.0381

Mars 96523-06-05 00:57 G 36975516.42 36975516.54 36975516.65 0.1586 0.0134

Venus 96524-08-14 05:45 G 36975952.66 36975952.74 36975952.82 0.3626 0.2253

Jupiter 96524-08-14 21:50 G 36975953.28 36975953.41 36975953.53 0.0512 0.0064

Mars 96525-05-10 01:55 G 36976221.53 36976221.58 36976221.63 0.1581 0.1410

Venus 96527-05-22 14:09 G 36976963.93 36976964.09 36976964.26 0.3745 0.0473

Earth 96528-01-01 06:00 G 36977187.64 36977187.75 36977187.85 0.2638 0.0619

Moon 96528-01-01 06:14 G 36977187.66 36977187.76 36977187.87 0.2644 0.0567 *

Mars 96530-01-24 19:12 G 36977942.28 36977942.30 36977942.31 0.1958 0.1945

Jupiter 96530-10-07 12:00 G 36978197.82 36978198.00 36978198.18 0.0514 0.0125

Moon 96531-07-03 23:02 G 36978467.44 36978467.46 36978467.49 0.2692 0.2648

Earth 96531-07-04 00:57 G 36978467.47 36978467.54 36978467.60 0.2693 0.2435 *

Saturn 96531-12-24 10:48 G 36978640.77 36978640.95 36978641.13 0.0282 0.0095

Saturn 96532-03-22 11:16 G 36978729.80 36978729.97 36978730.14 0.0284 0.0116

Mars 96532-10-25 12:43 G 36978946.92 36978947.03 36978947.14 0.1588 0.0501

Mars 96534-09-30 13:40 G 36979651.98 36979652.07 36979652.16 0.1582 0.1033

Jupiter 96536-06-03 02:09 G 36980263.48 36980263.59 36980263.71 0.0513 0.0233

Jupiter 96536-08-31 05:45 G 36980352.67 36980352.74 36980352.82 0.0511 0.0414

Mars 96539-06-16 10:33 G 36981371.78 36981371.94 36981372.10 0.1956 0.0494

Earth 96541-01-02 23:16 G 36981938.36 36981938.47 36981938.57 0.2637 0.0822

Moon 96541-01-02 23:45 G 36981938.39 36981938.49 36981938.59 0.2640 0.0969 *

Mars 96542-03-18 00:28 G 36982377.42 36982377.52 36982377.62 0.1590 0.0875

Jupiter 96542-07-26 08:09 G 36982507.72 36982507.84 36982507.98 0.0513 0.0369

Mars 96544-02-21 01:26 G 36983082.45 36983082.56 36983082.66 0.1583 0.0661

Moon 96544-07-06 08:09 G 36983218.69 36983218.84 36983218.99 0.2699 0.0800

Earth 96544-07-06 09:36 G 36983218.75 36983218.90 36983219.04 0.2695 0.1089 *

Saturn 96544-11-08 03:36 G 36983343.58 36983343.65 36983343.73 0.0282 0.0225

Saturn 96545-02-04 14:24 G 36983431.98 36983432.10 36983432.23 0.0280 0.0087

Saturn 96545-05-04 01:12 G 36983520.42 36983520.55 36983520.68 0.0279 0.0049

Saturn 96545-07-31 11:45 G 36983608.90 36983608.99 36983609.09 0.0278 0.0183

Uranus 96547-05-21 01:40 G 36984267.54 36984267.57 36984267.63 0.0136 0.0132

Uranus 96547-08-17 09:36 G 36984355.78 36984355.90 36984356.03 0.0135 0.0104

Neptune 96547-09-29 05:16 G 36984398.69 36984398.72 36984398.78 0.0088 0.0082

Uranus 96547-11-13 17:02 G 36984444.06 36984444.21 36984444.38 0.0135 0.0076

Neptune 96547-12-26 06:43 G 36984486.72 36984486.78 36984486.85 0.0088 0.0075

Uranus 96548-02-10 00:43 G 36984532.35 36984532.53 36984532.72 0.0135 0.0049

Jupiter 96548-03-22 06:57 G 36984573.71 36984573.79 36984573.87 0.0513 0.0397

Neptune 96548-03-23 07:55 G 36984574.75 36984574.83 36984574.92 0.0088 0.0068

Uranus 96548-05-08 08:24 G 36984620.65 36984620.85 36984621.04 0.0135 0.0021

Neptune 96548-06-19 09:07 G 36984662.79 36984662.88 36984662.98 0.0088 0.0061

Jupiter 96548-06-19 10:33 G 36984662.83 36984662.94 36984663.05 0.0511 0.0252 *

Uranus 96548-08-04 15:50 G 36984708.97 36984709.16 36984709.36 0.0135 0.0006

Neptune 96548-09-15 10:33 G 36984750.84 36984750.94 36984751.04 0.0088 0.0054

Uranus 96548-10-31 23:16 G 36984797.29 36984797.47 36984797.66 0.0135 0.0034

Mars 96548-11-05 02:09 G 36984801.45 36984801.59 36984801.74 0.1953 0.0947

Neptune 96548-12-12 11:45 G 36984838.88 36984838.99 36984839.10 0.0088 0.0047

Uranus 96549-01-28 06:28 G 36984885.61 36984885.77 36984885.96 0.0135 0.0062

Neptune 96549-03-10 12:57 G 36984926.93 36984927.04 36984927.16 0.0088 0.0040

Uranus 96549-04-26 13:55 G 36984973.95 36984974.08 36984974.24 0.0135 0.0088

Neptune 96549-06-06 14:24 G 36985014.97 36985015.10 36985015.22 0.0088 0.0033

Uranus 96549-07-23 21:21 G 36985062.31 36985062.39 36985062.51 0.0135 0.0115

Neptune 96549-09-02 15:36 G 36985103.02 36985103.15 36985103.28 0.0088 0.0026

Neptune 96549-11-29 16:48 G 36985191.07 36985191.20 36985191.33 0.0088 0.0019

Neptune 96550-02-25 18:00 G 36985279.12 36985279.25 36985279.39 0.0088 0.0013

Neptune 96550-05-24 19:26 G 36985367.17 36985367.31 36985367.44 0.0088 0.0006

Neptune 96550-08-20 20:38 G 36985455.23 36985455.36 36985455.49 0.0088 0.0002

Neptune 96550-11-16 21:50 G 36985543.28 36985543.41 36985543.54 0.0088 0.0009

Neptune 96551-02-12 23:02 G 36985631.33 36985631.46 36985631.60 0.0088 0.0016

Neptune 96551-05-12 00:28 G 36985719.39 36985719.52 36985719.65 0.0088 0.0023

Neptune 96551-08-08 01:40 G 36985807.45 36985807.57 36985807.69 0.0088 0.0030

Mars 96551-08-08 12:14 G 36985807.94 36985808.01 36985808.09 0.1593 0.1248

Neptune 96551-11-04 02:52 G 36985895.50 36985895.62 36985895.74 0.0088 0.0037

Neptune 96552-01-31 04:04 G 36985983.56 36985983.67 36985983.79 0.0088 0.0044

Neptune 96552-04-28 05:16 G 36986071.62 36986071.72 36986071.83 0.0088 0.0051

Neptune 96552-07-25 06:28 G 36986159.68 36986159.77 36986159.88 0.0088 0.0058

Neptune 96552-10-21 07:40 G 36986247.74 36986247.82 36986247.92 0.0088 0.0065

Neptune 96553-01-17 09:07 G 36986335.81 36986335.88 36986335.96 0.0088 0.0072

Neptune 96553-04-15 10:19 G 36986423.88 36986423.93 36986423.99 0.0088 0.0079

Neptune 96553-07-12 11:31 G 36986511.97 36986511.98 36986512.02 0.0088 0.0086

Mars 96553-07-13 12:57 G 36986512.93 36986513.04 36986513.16 0.1585 0.0291

Earth 96554-01-05 16:33 G 36986689.13 36986689.19 36986689.24 0.2637 0.2266

Moon 96554-01-05 17:02 G 36986689.16 36986689.21 36986689.26 0.2633 0.2292 *

Jupiter 96554-08-12 18:57 G 36986908.17 36986908.29 36986908.41 0.0514 0.0392

Jupiter 96560-04-07 15:21 G 36988973.01 36988973.14 36988973.26 0.0512 0.0093

Moon 96560-12-29 17:16 G 36989239.14 36989239.22 36989239.30 0.2646 0.1753

Earth 96560-12-29 17:31 G 36989239.15 36989239.23 36989239.31 0.2639 0.1757 *

Saturn 96561-05-12 09:07 G 36989372.72 36989372.88 36989373.04 0.0282 0.0154

Saturn 96561-08-09 09:50 G 36989461.72 36989461.91 36989462.09 0.0284 0.0056

Saturn 96561-11-06 10:04 G 36989550.87 36989550.92 36989550.99 0.0285 0.0268

Mars 96562-12-04 00:57 G 36989943.42 36989943.54 36989943.66 0.1586 0.0089

Venus 96564-08-06 06:28 G 36990554.71 36990554.77 36990554.84 0.3631 0.2717

Mars 96564-11-08 01:55 G 36990648.54 36990648.58 36990648.62 0.1581 0.1451

Jupiter 96566-05-31 14:38 G 36991217.93 36991218.11 36991218.29 0.0514 0.0137

Venus 96570-02-19 21:21 G 36992578.29 36992578.39 36992578.49 0.3629 0.0832

Jupiter 96572-01-25 20:24 G 36993283.22 36993283.35 36993283.48 0.0512 0.0062

Mars 96572-04-25 12:43 G 36993373.91 36993374.03 36993374.14 0.1588 0.0465

Earth 96574-01-01 10:48 G 36993989.84 36993989.95 36993990.05 0.2638 0.0341

Moon 96574-01-01 11:16 G 36993989.86 36993989.97 36993990.07 0.2643 0.0289 *

Saturn 96574-03-28 06:14 G 36994075.72 36994075.76 36994075.80 0.0282 0.0264

Mars 96574-03-31 13:40 G 36994078.98 36994079.07 36994079.15 0.1582 0.1076

Saturn 96574-06-24 17:02 G 36994164.09 36994164.21 36994164.33 0.0281 0.0126

Saturn 96574-09-21 03:50 G 36994252.53 36994252.66 36994252.79 0.0279 0.0011

Saturn 96574-12-18 14:24 G 36994340.99 36994341.10 36994341.22 0.0278 0.0145

Venus 96575-09-05 12:14 G 36994601.91 36994602.01 36994602.10 0.3627 0.1056

Moon 96577-07-04 06:00 G 36995269.65 36995269.75 36995269.86 0.2693 0.2036

Earth 96577-07-04 07:55 G 36995269.71 36995269.83 36995269.95 0.2693 0.1764 *

Jupiter 96578-03-19 09:07 G 36995527.70 36995527.88 36995528.07 0.0514 0.0136

Pluto 96578-03-30 18:14 G 36995539.17 36995539.26 36995539.36 0.0061 0.0052

Pluto 96578-06-26 19:12 G 36995627.18 36995627.30 36995627.45 0.0061 0.0042

Pluto 96578-09-22 20:24 G 36995715.20 36995715.35 36995715.52 0.0061 0.0032

Mars 96578-12-15 11:45 G 36995798.83 36995798.99 36995799.15 0.1956 0.0611

Pluto 96578-12-19 21:50 G 36995803.24 36995803.41 36995803.59 0.0061 0.0021

Pluto 96579-03-17 23:02 G 36995891.28 36995891.46 36995891.65 0.0061 0.0011

Pluto 96579-06-14 00:28 G 36995979.33 36995979.52 36995979.70 0.0061 0.0001

Pluto 96579-09-10 01:26 G 36996067.38 36996067.56 36996067.75 0.0061 0.0010

Pluto 96579-12-07 02:38 G 36996155.44 36996155.61 36996155.79 0.0061 0.0021

Pluto 96580-03-04 03:36 G 36996243.51 36996243.65 36996243.83 0.0061 0.0032

Pluto 96580-05-31 05:02 G 36996331.58 36996331.71 36996331.86 0.0061 0.0042

Pluto 96580-08-27 06:00 G 36996419.68 36996419.75 36996419.87 0.0061 0.0053

Venus 96581-03-21 02:52 G 36996625.56 36996625.62 36996625.68 0.3626 0.2921

Mars 96581-09-16 00:28 G 36996804.42 36996804.52 36996804.62 0.1590 0.0838

Mars 96583-08-22 01:12 G 36997509.45 36997509.55 36997509.66 0.1583 0.0700

Jupiter 96583-11-14 01:12 G 36997593.44 36997593.55 36997593.67 0.0512 0.0221

Venus 96583-12-27 17:45 G 36997637.12 36997637.24 36997637.37 0.3746 0.2388

Jupiter 96584-02-11 04:48 G 36997682.64 36997682.70 36997682.77 0.0510 0.0426

Earth 96587-01-04 03:50 G 36998740.56 36998740.66 36998740.76 0.2637 0.1116

Moon 96587-01-04 04:33 G 36998740.59 36998740.69 36998740.79 0.2639 0.1190 *

Mars 96588-05-06 02:52 G 36999228.47 36999228.62 36999228.77 0.1952 0.0857

Jupiter 96590-01-05 05:16 G 36999837.60 36999837.72 36999837.85 0.0513 0.0382

Uranus 96590-02-16 23:45 G 36999880.47 36999880.49 36999880.52 0.0143 0.0140

Uranus 96590-05-16 03:07 G 36999968.57 36999968.63 36999968.71 0.0143 0.0119

Moon 96590-07-07 15:07 G 37000021.00 37000021.13 37000021.25 0.2700 0.1634

Earth 96590-07-07 16:19 G 37000021.06 37000021.18 37000021.30 0.2695 0.1744 *

Uranus 96590-08-12 06:28 G 37000056.69 37000056.77 37000056.88 0.0143 0.0098

Saturn 96590-09-29 08:09 G 37000104.72 37000104.84 37000104.98 0.0281 0.0205

Uranus 96590-11-08 10:04 G 37000144.81 37000144.92 37000145.04 0.0143 0.0076

Saturn 96590-12-27 08:52 G 37000193.68 37000193.87 37000194.06 0.0283 0.0005

Uranus 96591-02-04 13:26 G 37000232.95 37000233.06 37000233.19 0.0143 0.0055

Mars 96591-02-06 12:14 G 37000234.94 37000235.01 37000235.09 0.1593 0.1211

Saturn 96591-03-26 09:21 G 37000282.77 37000282.89 37000283.02 0.0284 0.0216

Uranus 96591-05-03 17:02 G 37000321.08 37000321.21 37000321.34 0.0143 0.0033

Uranus 96591-07-30 20:38 G 37000409.23 37000409.36 37000409.49 0.0143 0.0012

Uranus 96591-10-27 00:00 G 37000497.37 37000497.50 37000497.63 0.0143 0.0011

Uranus 96592-01-23 03:36 G 37000585.52 37000585.65 37000585.78 0.0143 0.0032

Uranus 96592-04-20 06:57 G 37000673.67 37000673.79 37000673.91 0.0143 0.0054

Uranus 96592-07-17 10:19 G 37000761.83 37000761.93 37000762.05 0.0143 0.0076

Uranus 96592-10-13 13:55 G 37000849.99 37000850.08 37000850.18 0.0143 0.0098

Uranus 96593-01-09 17:16 G 37000938.16 37000938.22 37000938.30 0.0143 0.0120

Mars 96593-01-11 12:57 G 37000939.93 37000940.04 37000940.16 0.1584 0.0328

Uranus 96593-04-07 21:07 G 37001026.36 37001026.38 37001026.39 0.0143 0.0142

Jupiter 96595-09-02 05:45 G 37001903.66 37001903.74 37001903.82 0.0513 0.0391

Jupiter 96595-11-30 09:21 G 37001992.78 37001992.89 37001993.00 0.0511 0.0257

Earth 96600-01-06 21:21 G 37003491.36 37003491.39 37003491.41 0.2636 0.2560

Mars 96600-06-30 00:00 G 37003665.49 37003665.50 37003665.51 0.1595 0.1585

Jupiter 96602-01-23 16:48 G 37004238.08 37004238.20 37004238.32 0.0514 0.0392

Mars 96602-06-05 00:57 G 37004370.42 37004370.54 37004370.65 0.1586 0.0073

Saturn 96603-11-12 19:40 G 37004896.21 37004896.32 37004896.42 0.0281 0.0167

Saturn 96604-02-09 06:14 G 37004984.64 37004984.76 37004984.89 0.0280 0.0031

Saturn 96604-05-07 17:02 G 37005073.09 37005073.21 37005073.33 0.0279 0.0106

Mars 96604-05-10 01:55 G 37005075.54 37005075.58 37005075.62 0.1581 0.1492

Saturn 96604-08-04 03:36 G 37005161.59 37005161.65 37005161.72 0.0278 0.0240

Earth 96606-12-31 22:04 G 37006041.33 37006041.42 37006041.51 0.2639 0.1471

Moon 96606-12-31 22:04 G 37006041.34 37006041.42 37006041.51 0.2646 0.1522 *

Jupiter 96607-09-19 13:55 G 37006302.96 37006303.08 37006303.20 0.0512 0.0092

Mars 96611-10-26 12:43 G 37007800.91 37007801.03 37007801.14 0.1588 0.0425

Mars 96613-09-30 13:40 G 37008505.98 37008506.07 37008506.15 0.1582 0.1116

Jupiter 96613-11-11 12:14 G 37008547.83 37008548.01 37008548.19 0.0514 0.0134

Mars 96618-06-16 12:43 G 37010225.88 37010226.03 37010226.19 0.1956 0.0718

Jupiter 96619-07-08 18:43 G 37010613.15 37010613.28 37010613.40 0.0512 0.0072

Earth 96620-01-03 15:21 G 37010792.03 37010792.14 37010792.25 0.2638 0.0077

Moon 96620-01-03 15:50 G 37010792.05 37010792.16 37010792.27 0.2643 0.0114 *

Saturn 96620-02-17 07:26 G 37010836.74 37010836.81 37010836.89 0.0282 0.0257

Saturn 96620-05-16 08:09 G 37010925.65 37010925.84 37010926.03 0.0283 0.0049

Saturn 96620-08-13 08:38 G 37011014.71 37011014.86 37011015.02 0.0284 0.0162

Venus 96621-03-14 03:50 G 37011227.58 37011227.66 37011227.74 0.3630 0.2041

Mars 96621-03-18 00:28 G 37011231.42 37011231.52 37011231.62 0.1590 0.0797

Mars 96623-02-21 01:26 G 37011936.45 37011936.56 37011936.66 0.1583 0.0743

Moon 96623-07-06 12:57 G 37012071.91 37012072.04 37012072.18 0.2695 0.1388

Earth 96623-07-06 14:38 G 37012071.97 37012072.11 37012072.26 0.2694 0.1111 *

Jupiter 96625-08-30 07:40 G 37012857.64 37012857.82 37012858.00 0.0513 0.0124

Venus 96626-09-27 18:28 G 37013251.17 37013251.27 37013251.37 0.3628 0.0211

Mars 96627-11-06 03:50 G 37013655.51 37013655.66 37013655.82 0.1953 0.0751

Mars 96630-08-08 12:14 G 37014661.93 37014662.01 37014662.09 0.1592 0.1174

Jupiter 96631-04-26 23:31 G 37014923.37 37014923.48 37014923.60 0.0513 0.0226

Uranus 96631-06-11 09:36 G 37014968.83 37014968.90 37014968.99 0.0136 0.0123

Neptune 96631-06-12 20:52 G 37014970.35 37014970.37 37014970.42 0.0090 0.0088

Jupiter 96631-07-25 03:07 G 37015012.57 37015012.63 37015012.71 0.0511 0.0422

Uranus 96631-09-07 17:16 G 37015057.09 37015057.22 37015057.36 0.0136 0.0095

Neptune 96631-09-09 00:43 G 37015058.44 37015058.53 37015058.64 0.0090 0.0077

Uranus 96631-12-05 00:43 G 37015145.37 37015145.53 37015145.71 0.0135 0.0068

Neptune 96631-12-06 04:33 G 37015146.57 37015146.69 37015146.83 0.0090 0.0066

Uranus 96632-03-02 08:38 G 37015233.67 37015233.86 37015234.04 0.0135 0.0040

Neptune 96632-03-03 08:24 G 37015234.70 37015234.85 37015235.01 0.0090 0.0055

Venus 96632-04-12 09:21 G 37015274.80 37015274.89 37015274.98 0.3627 0.1712

Uranus 96632-05-29 16:04 G 37015321.98 37015322.17 37015322.37 0.0135 0.0012

Neptune 96632-05-30 12:00 G 37015322.84 37015323.00 37015323.18 0.0090 0.0044

Mars 96632-07-13 12:57 G 37015366.93 37015367.04 37015367.16 0.1584 0.0367

Uranus 96632-08-25 23:31 G 37015410.29 37015410.48 37015410.68 0.0135 0.0015

Neptune 96632-08-26 15:50 G 37015410.99 37015411.16 37015411.35 0.0090 0.0033

Uranus 96632-11-22 07:12 G 37015498.61 37015498.80 37015498.98 0.0135 0.0043

Neptune 96632-11-22 19:40 G 37015499.14 37015499.32 37015499.52 0.0090 0.0022

Earth 96633-01-05 08:38 G 37015542.77 37015542.86 37015542.95 0.2637 0.1403

Moon 96633-01-05 09:21 G 37015542.80 37015542.89 37015542.98 0.2636 0.1504 *

Uranus 96633-02-18 14:24 G 37015586.94 37015587.10 37015587.28 0.0135 0.0070

Neptune 96633-02-18 23:31 G 37015587.29 37015587.48 37015587.68 0.0090 0.0011

Saturn 96633-03-31 22:19 G 37015628.35 37015628.43 37015628.52 0.0281 0.0202

Uranus 96633-05-17 21:50 G 37015675.29 37015675.41 37015675.55 0.0135 0.0097

Neptune 96633-05-18 03:21 G 37015675.44 37015675.64 37015675.84 0.0090 0.0000 *

Saturn 96633-06-28 09:07 G 37015716.76 37015716.88 37015717.01 0.0280 0.0065

Neptune 96633-08-14 06:57 G 37015763.60 37015763.79 37015763.99 0.0090 0.0012

Uranus 96633-08-14 05:16 G 37015763.66 37015763.72 37015763.81 0.0135 0.0124 *

Saturn 96633-09-24 19:55 G 37015805.21 37015805.33 37015805.46 0.0279 0.0071

Neptune 96633-11-10 10:33 G 37015851.76 37015851.94 37015852.14 0.0090 0.0023

Saturn 96633-12-22 06:43 G 37015893.69 37015893.78 37015893.87 0.0278 0.0205

Neptune 96634-02-06 14:24 G 37015939.93 37015940.10 37015940.29 0.0090 0.0034

Neptune 96634-05-05 18:00 G 37016028.10 37016028.25 37016028.43 0.0090 0.0045

Neptune 96634-08-01 21:36 G 37016116.27 37016116.40 37016116.57 0.0090 0.0056

Neptune 96634-10-29 01:26 G 37016204.45 37016204.56 37016204.71 0.0090 0.0067

Neptune 96635-01-25 05:31 G 37016292.64 37016292.73 37016292.83 0.0090 0.0077

Neptune 96635-04-23 09:07 G 37016380.86 37016380.88 37016380.92 0.0090 0.0088

Moon 96636-07-08 21:50 G 37016823.32 37016823.41 37016823.51 0.2700 0.2168

Earth 96636-07-08 23:16 G 37016823.40 37016823.47 37016823.54 0.2695 0.2403 *

Jupiter 96637-06-18 02:09 G 37017167.47 37017167.59 37017167.71 0.0513 0.0399

Venus 96637-10-27 00:14 G 37017298.50 37017298.51 37017298.52 0.3625 0.3581

Mars 96639-12-30 00:00 G 37018092.48 37018092.50 37018092.53 0.1595 0.1547

Earth 96639-12-30 09:50 G 37018092.89 37018092.91 37018092.92 0.2640 0.2605

Mars 96641-12-04 00:43 G 37018797.42 37018797.53 37018797.65 0.1586 0.0057

Jupiter 96643-02-13 04:33 G 37019233.61 37019233.69 37019233.77 0.0513 0.0384

Jupiter 96643-05-13 08:09 G 37019322.73 37019322.84 37019322.95 0.0511 0.0263

Mars 96643-11-09 01:55 G 37019502.55 37019502.58 37019502.60 0.1581 0.1534

Jupiter 96649-07-05 13:12 G 37021567.92 37021568.05 37021568.18 0.0515 0.0370

Saturn 96649-10-03 07:55 G 37021657.65 37021657.83 37021658.01 0.0282 0.0094

Saturn 96649-12-31 08:24 G 37021746.68 37021746.85 37021747.02 0.0283 0.0116

Mars 96651-04-26 12:28 G 37022227.91 37022228.02 37022228.14 0.1588 0.0390

Moon 96653-01-01 03:07 G 37022843.53 37022843.63 37022843.73 0.2645 0.1105

Earth 96653-01-01 02:52 G 37022843.53 37022843.62 37022843.72 0.2639 0.1184 *

Mars 96653-03-31 13:40 G 37022932.99 37022933.07 37022933.15 0.1582 0.1156

Jupiter 96655-03-01 12:28 G 37023632.89 37023633.02 37023633.14 0.0512 0.0093

Mars 96657-12-15 13:12 G 37024652.90 37024653.05 37024653.20 0.1956 0.0801

Mars 96660-09-16 00:28 G 37025658.41 37025658.52 37025658.62 0.1590 0.0762

Jupiter 96661-04-23 09:36 G 37025877.72 37025877.90 37025878.08 0.0514 0.0125

Saturn 96662-08-19 01:26 G 37026360.49 37026360.56 37026360.63 0.0282 0.0238

Mars 96662-08-22 01:12 G 37026363.45 37026363.55 37026363.65 0.1583 0.0781

Saturn 96662-11-15 12:14 G 37026448.89 37026449.01 37026449.13 0.0281 0.0100

Saturn 96663-02-11 23:02 G 37026537.33 37026537.46 37026537.59 0.0280 0.0037

Saturn 96663-05-11 09:36 G 37026625.80 37026625.90 37026626.01 0.0278 0.0171

Earth 96666-01-03 20:09 G 37027594.23 37027594.34 37027594.45 0.2638 0.0251

Moon 96666-01-03 20:38 G 37027594.25 37027594.36 37027594.47 0.2643 0.0295 *

Jupiter 96666-12-18 16:48 G 37027943.08 37027943.20 37027943.33 0.0512 0.0077

Mars 96667-05-07 04:48 G 37028082.55 37028082.70 37028082.86 0.1953 0.0649

Moon 96669-07-06 19:55 G 37028874.17 37028874.33 37028874.48 0.2697 0.0615

Earth 96669-07-06 21:36 G 37028874.24 37028874.40 37028874.56 0.2694 0.0446 *

Mars 96670-02-06 12:14 G 37029088.93 37029089.01 37029089.09 0.1592 0.1133

Pluto 96671-07-22 12:28 G 37029620.02 37029620.02 37029620.06 0.0084 0.0083

Pluto 96671-10-18 13:55 G 37029708.00 37029708.08 37029708.18 0.0084 0.0063

Mars 96672-01-12 12:57 G 37029793.93 37029794.04 37029794.16 0.1584 0.0406

Pluto 96672-01-14 15:21 G 37029796.03 37029796.14 37029796.26 0.0083 0.0043

Venus 96672-04-04 10:04 G 37029876.88 37029876.92 37029876.97 0.3632 0.3258

Pluto 96672-04-11 16:33 G 37029884.07 37029884.19 37029884.33 0.0083 0.0023

Pluto 96672-07-08 18:00 G 37029972.11 37029972.25 37029972.39 0.0083 0.0004

Pluto 96672-10-04 19:12 G 37030060.17 37030060.30 37030060.44 0.0083 0.0016

Pluto 96672-12-31 20:24 G 37030148.23 37030148.35 37030148.48 0.0083 0.0036

Jupiter 96673-02-09 05:02 G 37030187.53 37030187.71 37030187.89 0.0513 0.0134

Pluto 96673-03-29 21:36 G 37030236.31 37030236.40 37030236.51 0.0083 0.0055

Pluto 96673-06-25 23:02 G 37030324.40 37030324.46 37030324.52 0.0083 0.0074

Uranus 96674-03-10 06:57 G 37030581.76 37030581.79 37030581.84 0.0142 0.0135

Uranus 96674-06-06 10:19 G 37030669.86 37030669.93 37030670.02 0.0143 0.0114

Uranus 96674-09-02 13:40 G 37030757.98 37030758.07 37030758.18 0.0143 0.0093

Uranus 96674-11-29 17:16 G 37030846.11 37030846.22 37030846.34 0.0143 0.0071

Uranus 96675-02-25 20:52 G 37030934.25 37030934.37 37030934.49 0.0143 0.0049

Uranus 96675-05-25 00:28 G 37031022.39 37031022.52 37031022.64 0.0143 0.0028

Uranus 96675-08-21 03:50 G 37031110.53 37031110.66 37031110.79 0.0143 0.0006

Uranus 96675-11-17 07:12 G 37031198.67 37031198.80 37031198.93 0.0143 0.0016

Uranus 96676-02-13 10:48 G 37031286.82 37031286.95 37031287.08 0.0143 0.0037

Uranus 96676-05-11 14:09 G 37031374.98 37031375.09 37031375.22 0.0143 0.0059

Uranus 96676-08-07 17:45 G 37031463.13 37031463.24 37031463.35 0.0143 0.0081

Uranus 96676-11-03 21:07 G 37031551.30 37031551.38 37031551.48 0.0143 0.0103

Uranus 96677-01-31 00:43 G 37031639.47 37031639.53 37031639.60 0.0143 0.0125

Venus 96677-10-19 00:57 G 37031900.45 37031900.54 37031900.63 0.3630 0.1375

Jupiter 96678-10-06 21:36 G 37032253.29 37032253.40 37032253.51 0.0513 0.0239

Jupiter 96679-01-04 01:12 G 37032342.48 37032342.55 37032342.62 0.0511 0.0408

Earth 96679-01-06 13:26 G 37032344.98 37032345.06 37032345.14 0.2637 0.1695

Moon 96679-01-06 14:09 G 37032345.01 37032345.09 37032345.17 0.2635 0.1824 *

Saturn 96679-02-20 07:55 G 37032389.66 37032389.83 37032389.99 0.0282 0.0142

Saturn 96679-05-20 08:24 G 37032478.66 37032478.85 37032479.03 0.0284 0.0068

Mars 96679-06-30 00:00 G 37032519.47 37032519.50 37032519.54 0.1595 0.1509

Saturn 96679-08-17 08:38 G 37032567.84 37032567.86 37032567.90 0.0285 0.0281

Mars 96681-06-04 00:57 G 37033224.42 37033224.54 37033224.65 0.1586 0.0066

Venus 96683-05-04 15:50 G 37033924.06 37033924.16 37033924.26 0.3628 0.0507

Mars 96683-05-10 01:55 G 37033929.57 37033929.58 37033929.58 0.1581 0.1575

Jupiter 96684-11-28 00:14 G 37034497.39 37034497.51 37034497.63 0.0513 0.0393

Moon 96685-12-30 14:09 G 37034895.04 37034895.09 37034895.14 0.2646 0.2323

Earth 96685-12-30 14:24 G 37034895.05 37034895.10 37034895.15 0.2640 0.2317 *

Venus 96688-11-17 06:43 G 37035947.70 37035947.78 37035947.85 0.3626 0.2384

Jupiter 96690-07-26 02:38 G 37036563.53 37036563.61 37036563.68 0.0513 0.0396

Jupiter 96690-10-23 06:14 G 37036652.65 37036652.76 37036652.87 0.0511 0.0253

Mars 96690-10-25 12:28 G 37036654.91 37036655.02 37036655.14 0.1588 0.0350

Venus 96691-08-25 10:19 G 37036958.77 37036958.93 37036959.09 0.3745 0.0997

Saturn 96692-01-06 04:33 G 37037092.66 37037092.69 37037092.73 0.0282 0.0269

Saturn 96692-04-03 15:21 G 37037181.03 37037181.14 37037181.26 0.0281 0.0132

Saturn 96692-07-01 02:09 G 37037269.46 37037269.59 37037269.72 0.0279 0.0011

Saturn 96692-09-27 12:57 G 37037357.93 37037358.04 37037358.15 0.0278 0.0140

Mars 96692-09-29 13:40 G 37037359.99 37037360.07 37037360.14 0.1581 0.1200

Saturn 96692-12-24 23:45 G 37037446.47 37037446.49 37037446.50 0.0277 0.0274

Jupiter 96696-12-15 09:36 G 37038897.77 37038897.90 37038898.04 0.0514 0.0347

Mars 96697-06-15 14:24 G 37039079.95 37039080.10 37039080.24 0.1956 0.0913

Earth 96699-01-02 07:40 G 37039645.72 37039645.82 37039645.92 0.2639 0.0891

Moon 96699-01-02 07:55 G 37039645.73 37039645.83 37039645.93 0.2645 0.0915 *

Mars 96700-03-18 00:14 G 37040085.41 37040085.51 37040085.62 0.1590 0.0726

Mars 96702-02-21 01:12 G 37040790.45 37040790.55 37040790.65 0.1583 0.0819

Jupiter 96702-08-12 11:02 G 37040962.84 37040962.96 37040963.08 0.0512 0.0094

Mars 96706-11-06 05:45 G 37042509.58 37042509.74 37042509.90 0.1953 0.0548

Saturn 96708-07-10 07:55 G 37043121.69 37043121.83 37043121.98 0.0282 0.0183

Jupiter 96708-10-04 05:31 G 37043207.55 37043207.73 37043207.92 0.0514 0.0096

Saturn 96708-10-07 08:38 G 37043210.67 37043210.86 37043211.05 0.0283 0.0026

Saturn 96709-01-04 09:07 G 37043299.78 37043299.88 37043299.98 0.0284 0.0237

Mars 96709-08-08 12:14 G 37043515.93 37043516.01 37043516.09 0.1592 0.1097

Mars 96711-07-14 12:57 G 37044220.93 37044221.04 37044221.15 0.1584 0.0444

Earth 96712-01-06 00:57 G 37044396.43 37044396.54 37044396.64 0.2638 0.0544

Moon 96712-01-06 01:26 G 37044396.46 37044396.56 37044396.67 0.2641 0.0687 *

Neptune 96712-03-31 03:36 G 37044481.64 37044481.65 37044481.66 0.0088 0.0087

Neptune 96712-06-27 04:33 G 37044569.65 37044569.69 37044569.75 0.0088 0.0081

Neptune 96712-09-23 05:45 G 37044657.68 37044657.74 37044657.82 0.0088 0.0074

Neptune 96712-12-20 07:12 G 37044745.72 37044745.80 37044745.89 0.0088 0.0066

Neptune 96713-03-18 08:24 G 37044833.76 37044833.85 37044833.95 0.0088 0.0060

Neptune 96713-06-14 09:36 G 37044921.81 37044921.90 37044922.01 0.0088 0.0053

Neptune 96713-09-10 11:02 G 37045009.85 37045009.96 37045010.07 0.0088 0.0046

Neptune 96713-12-07 12:14 G 37045097.90 37045098.01 37045098.13 0.0088 0.0039

Neptune 96714-03-05 13:26 G 37045185.94 37045186.06 37045186.19 0.0088 0.0032

Jupiter 96714-05-31 15:21 G 37045273.01 37045273.14 37045273.26 0.0512 0.0081

Neptune 96714-06-01 14:52 G 37045273.99 37045274.12 37045274.25 0.0088 0.0025

Neptune 96714-08-28 16:04 G 37045362.04 37045362.17 37045362.30 0.0088 0.0018

Neptune 96714-11-24 17:16 G 37045450.09 37045450.22 37045450.36 0.0088 0.0011

Neptune 96715-02-20 18:43 G 37045538.15 37045538.28 37045538.41 0.0088 0.0004

Neptune 96715-05-19 19:55 G 37045626.20 37045626.33 37045626.46 0.0088 0.0003

Uranus 96715-07-02 17:16 G 37045670.13 37045670.22 37045670.34 0.0136 0.0114

Moon 96715-07-09 02:38 G 37045676.46 37045676.61 37045676.77 0.2698 0.0144

Earth 96715-07-09 04:19 G 37045676.53 37045676.68 37045676.84 0.2694 0.0224 *

Neptune 96715-08-15 21:07 G 37045714.25 37045714.38 37045714.51 0.0088 0.0010

Uranus 96715-09-29 01:12 G 37045758.40 37045758.55 37045758.70 0.0136 0.0086

Neptune 96715-11-11 22:19 G 37045802.30 37045802.43 37045802.56 0.0088 0.0017

Uranus 96715-12-26 08:38 G 37045846.69 37045846.86 37045847.04 0.0136 0.0058

Neptune 96716-02-07 23:31 G 37045890.36 37045890.48 37045890.61 0.0088 0.0024

Uranus 96716-03-23 16:19 G 37045934.99 37045935.18 37045935.37 0.0135 0.0031

Neptune 96716-05-06 00:57 G 37045978.42 37045978.54 37045978.66 0.0088 0.0031

Uranus 96716-06-19 23:45 G 37046023.30 37046023.49 37046023.69 0.0135 0.0005

Neptune 96716-08-02 02:09 G 37046066.47 37046066.59 37046066.71 0.0088 0.0038

Uranus 96716-09-16 07:26 G 37046111.62 37046111.81 37046112.00 0.0135 0.0024

Neptune 96716-10-29 03:21 G 37046154.53 37046154.64 37046154.76 0.0088 0.0045

Uranus 96716-12-13 14:52 G 37046199.94 37046200.12 37046200.30 0.0135 0.0052

Neptune 96717-01-25 04:48 G 37046242.59 37046242.70 37046242.80 0.0088 0.0052

Uranus 96717-03-11 22:04 G 37046288.28 37046288.42 37046288.59 0.0135 0.0080

Neptune 96717-04-23 06:00 G 37046330.65 37046330.75 37046330.85 0.0088 0.0059

Uranus 96717-06-08 05:45 G 37046376.63 37046376.74 37046376.87 0.0135 0.0106

Neptune 96717-07-20 07:12 G 37046418.72 37046418.80 37046418.89 0.0088 0.0066

Uranus 96717-09-04 13:12 G 37046465.03 37046465.05 37046465.09 0.0135 0.0133

Neptune 96717-10-16 08:24 G 37046506.78 37046506.85 37046506.93 0.0088 0.0073

Neptune 96718-01-12 09:36 G 37046594.86 37046594.90 37046594.96 0.0088 0.0080

Neptune 96718-04-10 11:02 G 37046682.95 37046682.96 37046682.97 0.0088 0.0087

Mars 96718-12-30 00:00 G 37046946.46 37046946.50 37046946.54 0.1595 0.1473

Jupiter 96720-07-23 01:55 G 37047517.40 37047517.58 37047517.76 0.0513 0.0149

Mars 96720-12-04 00:43 G 37047651.42 37047651.53 37047651.65 0.1586 0.0079

Saturn 96721-08-22 18:43 G 37047913.18 37047913.28 37047913.38 0.0281 0.0164

Saturn 96721-11-19 05:31 G 37048001.60 37048001.73 37048001.86 0.0280 0.0027

Saturn 96722-02-15 16:04 G 37048090.06 37048090.17 37048090.29 0.0279 0.0109

Saturn 96722-05-15 02:52 G 37048178.56 37048178.62 37048178.68 0.0278 0.0242

Earth 96725-01-07 18:14 G 37049147.19 37049147.26 37049147.33 0.2637 0.1988

Moon 96725-01-07 18:57 G 37049147.22 37049147.29 37049147.35 0.2635 0.2059 *

Jupiter 96726-03-19 19:40 G 37049583.21 37049583.32 37049583.43 0.0513 0.0247

Jupiter 96726-06-16 23:16 G 37049672.40 37049672.47 37049672.55 0.0511 0.0400

Venus 96728-11-10 07:26 G 37050549.74 37050549.81 37050549.88 0.3631 0.2578

Mars 96730-04-26 12:28 G 37051081.91 37051082.02 37051082.14 0.1588 0.0309

Moon 96732-01-01 18:57 G 37051697.23 37051697.29 37051697.36 0.2646 0.2105

Earth 96732-01-01 19:12 G 37051697.23 37051697.30 37051697.37 0.2640 0.2027 *

Mars 96732-03-31 13:40 G 37051786.99 37051787.07 37051787.14 0.1582 0.1240

Jupiter 96732-05-10 21:21 G 37051827.28 37051827.39 37051827.50 0.0513 0.0406

Venus 96734-05-26 22:19 G 37052573.33 37052573.43 37052573.53 0.3629 0.0706

Mars 96736-12-15 15:36 G 37053507.01 37053507.15 37053507.29 0.1956 0.1027

Saturn 96737-11-27 07:55 G 37053853.73 37053853.83 37053853.95 0.0282 0.0230

Jupiter 96738-01-06 00:14 G 37053893.44 37053893.51 37053893.59 0.0513 0.0413

Saturn 96738-02-24 08:38 G 37053942.67 37053942.86 37053943.05 0.0283 0.0021

Jupiter 96738-04-05 04:04 G 37053982.55 37053982.67 37053982.78 0.0512 0.0236

Saturn 96738-05-24 09:07 G 37054031.75 37054031.88 37054032.03 0.0284 0.0192

Mars 96739-09-17 00:28 G 37054512.41 37054512.52 37054512.62 0.1590 0.0683

Venus 96739-12-10 13:12 G 37054596.95 37054597.05 37054597.14 0.3627 0.1190

Mars 96741-08-22 01:12 G 37055217.45 37055217.55 37055217.65 0.1583 0.0864

Jupiter 96744-05-28 07:26 G 37056227.68 37056227.81 37056227.95 0.0514 0.0348

Earth 96745-01-03 12:28 G 37056447.91 37056448.02 37056448.12 0.2639 0.0603

Moon 96745-01-03 12:43 G 37056447.92 37056448.03 37056448.14 0.2645 0.0497 *

Venus 96745-06-25 03:50 G 37056620.61 37056620.66 37056620.71 0.3626 0.3049

Mars 96746-05-07 06:28 G 37056936.61 37056936.77 37056936.94 0.1953 0.0454

Venus 96748-04-01 13:40 G 37057631.92 37057632.07 37057632.21 0.3746 0.1785

Earth 96748-07-06 02:38 G 37057727.59 37057727.61 37057727.64 0.2693 0.2656

Mars 96749-02-06 12:14 G 37057942.92 37057943.01 37057943.09 0.1592 0.1062

Jupiter 96750-01-22 08:52 G 37058292.75 37058292.87 37058293.00 0.0512 0.0081

Saturn 96751-01-09 22:04 G 37058645.33 37058645.42 37058645.52 0.0281 0.0192

Mars 96751-01-12 12:57 G 37058647.93 37058648.04 37058648.15 0.1584 0.0485

Saturn 96751-04-08 08:52 G 37058733.75 37058733.87 37058734.00 0.0280 0.0055

Saturn 96751-07-05 19:40 G 37058822.19 37058822.32 37058822.44 0.0279 0.0081

Saturn 96751-10-02 06:14 G 37058910.68 37058910.76 37058910.85 0.0278 0.0215

Mars 96755-09-26 22:04 G 37060366.39 37060366.42 37060366.45 0.1949 0.1913

Jupiter 96756-03-16 01:55 G 37060537.39 37060537.58 37060537.77 0.0514 0.0072

Earth 96758-01-06 05:45 G 37061198.63 37061198.74 37061198.84 0.2638 0.0842

Moon 96758-01-06 06:14 G 37061198.66 37061198.76 37061198.87 0.2639 0.0882 *

Uranus 96758-03-31 14:52 G 37061283.07 37061283.12 37061283.18 0.0142 0.0126

Uranus 96758-06-27 18:28 G 37061371.18 37061371.27 37061371.36 0.0143 0.0105

Mars 96758-06-30 00:00 G 37061373.45 37061373.50 37061373.55 0.1595 0.1435

Uranus 96758-09-23 21:50 G 37061459.31 37061459.41 37061459.52 0.0143 0.0084

Uranus 96758-12-21 01:12 G 37061547.44 37061547.55 37061547.67 0.0143 0.0063

Uranus 96759-03-19 04:48 G 37061635.58 37061635.70 37061635.83 0.0143 0.0041

Uranus 96759-06-15 08:09 G 37061723.72 37061723.84 37061723.98 0.0143 0.0020

Uranus 96759-09-11 11:45 G 37061811.86 37061811.99 37061812.12 0.0143 0.0003

Uranus 96759-12-08 15:07 G 37061900.01 37061900.13 37061900.27 0.0143 0.0025

Uranus 96760-03-05 18:43 G 37061988.16 37061988.28 37061988.41 0.0143 0.0046

Uranus 96760-06-01 22:04 G 37062076.31 37062076.42 37062076.54 0.0143 0.0068

Mars 96760-06-04 00:43 G 37062078.41 37062078.53 37062078.65 0.1586 0.0108

Uranus 96760-08-29 01:40 G 37062164.47 37062164.57 37062164.68 0.0143 0.0090

Uranus 96760-11-25 05:02 G 37062252.64 37062252.71 37062252.80 0.0143 0.0112

Uranus 96761-02-21 08:38 G 37062340.82 37062340.86 37062340.91 0.0143 0.0134

Moon 96761-07-09 09:36 G 37062478.75 37062478.90 37062479.06 0.2698 0.0754

Earth 96761-07-09 11:16 G 37062478.82 37062478.97 37062479.12 0.2694 0.0881 *

Jupiter 96761-11-10 13:40 G 37062602.95 37062603.07 37062603.20 0.0512 0.0082

Saturn 96767-04-16 08:09 G 37064585.81 37064585.84 37064585.90 0.0281 0.0271

Saturn 96767-07-14 08:52 G 37064674.69 37064674.87 37064675.06 0.0282 0.0062

Saturn 96767-10-11 09:36 G 37064763.74 37064763.90 37064764.06 0.0284 0.0149

Jupiter 96768-01-02 21:36 G 37064847.23 37064847.40 37064847.58 0.0513 0.0181

Mars 96769-10-25 12:28 G 37065508.91 37065509.02 37065509.14 0.1588 0.0269

Earth 96771-01-08 23:02 G 37065949.41 37065949.46 37065949.51 0.2637 0.2283

Moon 96771-01-08 23:31 G 37065949.44 37065949.48 37065949.52 0.2634 0.2427 *

Mars 96771-09-30 13:26 G 37066214.00 37066214.06 37066214.13 0.1581 0.1280

Jupiter 96773-08-29 18:00 G 37066913.14 37066913.25 37066913.36 0.0513 0.0254

Jupiter 96773-11-26 21:36 G 37067002.32 37067002.40 37067002.48 0.0511 0.0392

Mars 96776-06-15 15:50 G 37067934.03 37067934.16 37067934.30 0.1956 0.1104

Moon 96778-01-02 00:00 G 37068499.42 37068499.50 37068499.58 0.2646 0.1738

Earth 96778-01-02 00:00 G 37068499.42 37068499.50 37068499.58 0.2640 0.1740 *

Mars 96779-03-18 00:14 G 37068939.41 37068939.51 37068939.62 0.1590 0.0647

Jupiter 96779-10-21 18:00 G 37069157.15 37069157.25 37069157.35 0.0513 0.0423

Saturn 96780-05-29 01:26 G 37069377.49 37069377.56 37069377.64 0.0282 0.0223

Saturn 96780-08-25 12:28 G 37069465.89 37069466.02 37069466.14 0.0281 0.0085

Saturn 96780-11-21 23:02 G 37069554.34 37069554.46 37069554.59 0.0279 0.0051

Saturn 96781-02-18 09:50 G 37069642.81 37069642.91 37069643.00 0.0278 0.0185

Mars 96781-02-20 01:12 G 37069644.45 37069644.55 37069644.65 0.1583 0.0902

Venus 96785-06-17 04:48 G 37071222.61 37071222.70 37071222.78 0.3630 0.1906

Jupiter 96785-06-17 22:19 G 37071223.37 37071223.43 37071223.51 0.0513 0.0422

Jupiter 96785-09-15 02:09 G 37071312.47 37071312.59 37071312.70 0.0511 0.0227

Mars 96785-11-05 07:40 G 37071363.66 37071363.82 37071363.99 0.1954 0.0337

Mars 96788-08-07 12:14 G 37072369.92 37072370.01 37072370.10 0.1592 0.1019

Mars 96790-07-13 12:57 G 37073074.93 37073075.04 37073075.15 0.1584 0.0525

Venus 96790-12-31 19:26 G 37073246.21 37073246.31 37073246.41 0.3629 0.0119

Earth 96791-01-04 17:16 G 37073250.11 37073250.22 37073250.32 0.2639 0.0325

Moon 96791-01-04 17:31 G 37073250.12 37073250.23 37073250.34 0.2644 0.0305 *

Jupiter 96791-11-08 04:33 G 37073557.55 37073557.69 37073557.83 0.0514 0.0335

Moon 96794-07-07 07:40 G 37074529.73 37074529.82 37074529.91 0.2694 0.2170

Earth 96794-07-07 09:36 G 37074529.79 37074529.90 37074530.00 0.2693 0.2002 *

Mars 96795-03-27 23:02 G 37074793.40 37074793.46 37074793.51 0.1949 0.1816

Neptune 96796-03-09 17:45 G 37075141.21 37075141.24 37075141.30 0.0090 0.0087

Neptune 96796-06-05 21:36 G 37075229.31 37075229.40 37075229.51 0.0090 0.0076

Venus 96796-07-16 10:19 G 37075269.84 37075269.93 37075270.02 0.3627 0.1849

Neptune 96796-09-02 01:26 G 37075317.43 37075317.56 37075317.70 0.0090 0.0065

Neptune 96796-11-29 05:02 G 37075405.57 37075405.71 37075405.88 0.0090 0.0054

Saturn 96796-11-30 08:52 G 37075406.70 37075406.87 37075407.05 0.0283 0.0109

Neptune 96797-02-25 08:52 G 37075493.71 37075493.87 37075494.05 0.0090 0.0043

Saturn 96797-02-27 09:36 G 37075495.72 37075495.90 37075496.08 0.0284 0.0102

Neptune 96797-05-24 12:43 G 37075581.86 37075582.03 37075582.22 0.0090 0.0032

Jupiter 96797-07-04 06:43 G 37075622.65 37075622.78 37075622.90 0.0512 0.0063

Neptune 96797-08-20 16:33 G 37075670.01 37075670.19 37075670.39 0.0090 0.0021

Neptune 96797-11-16 20:24 G 37075758.16 37075758.35 37075758.55 0.0090 0.0010

Mars 96797-12-29 00:00 G 37075800.44 37075800.50 37075800.55 0.1594 0.1397

Neptune 96798-02-13 00:14 G 37075846.31 37075846.51 37075846.71 0.0090 0.0001

Neptune 96798-05-12 03:50 G 37075934.47 37075934.66 37075934.86 0.0090 0.0013

Neptune 96798-08-08 07:40 G 37076022.64 37076022.82 37076023.01 0.0090 0.0023

Neptune 96798-11-04 11:16 G 37076110.80 37076110.97 37076111.16 0.0090 0.0035

Neptune 96799-01-31 14:52 G 37076198.97 37076199.12 37076199.31 0.0090 0.0046

Uranus 96799-04-25 17:31 G 37076283.20 37076283.23 37076283.29 0.0136 0.0132

Neptune 96799-04-29 18:43 G 37076287.14 37076287.28 37076287.44 0.0090 0.0057

Uranus 96799-07-23 01:26 G 37076371.44 37076371.56 37076371.69 0.0136 0.0104

Neptune 96799-07-26 22:19 G 37076375.32 37076375.43 37076375.58 0.0090 0.0068

Uranus 96799-10-19 09:07 G 37076459.72 37076459.88 37076460.04 0.0136 0.0076

Neptune 96799-10-23 02:24 G 37076463.51 37076463.60 37076463.70 0.0090 0.0078

Mars 96799-12-04 00:43 G 37076505.42 37076505.53 37076505.65 0.1586 0.0154

Uranus 96800-01-15 16:33 G 37076548.02 37076548.19 37076548.38 0.0135 0.0049

Neptune 96800-01-19 06:00 G 37076551.74 37076551.75 37076551.78 0.0090 0.0089

Uranus 96800-04-13 00:14 G 37076636.32 37076636.51 37076636.71 0.0135 0.0021

Uranus 96800-07-10 07:55 G 37076724.63 37076724.83 37076725.02 0.0135 0.0007

Uranus 96800-10-06 15:21 G 37076812.96 37076813.14 37076813.33 0.0135 0.0034

Uranus 96801-01-02 22:48 G 37076901.28 37076901.45 37076901.63 0.0135 0.0062

Uranus 96801-04-01 06:14 G 37076989.62 37076989.76 37076989.92 0.0135 0.0089

Uranus 96801-06-28 13:40 G 37077077.99 37077078.07 37077078.18 0.0135 0.0116

Jupiter 96803-08-26 23:45 G 37077867.31 37077867.49 37077867.68 0.0513 0.0073

Earth 96804-01-07 10:19 G 37078000.84 37078000.93 37078001.03 0.2638 0.1133

Moon 96804-01-07 11:02 G 37078000.87 37078000.96 37078001.06 0.2638 0.1305 *

Moon 96807-07-10 16:48 G 37079281.06 37079281.20 37079281.34 0.2698 0.1242

Earth 96807-07-10 18:14 G 37079281.13 37079281.26 37079281.39 0.2695 0.1544 *

Jupiter 96809-04-22 11:31 G 37079932.86 37079932.98 37079933.11 0.0513 0.0096

Mars 96809-04-25 12:28 G 37079935.90 37079936.02 37079936.14 0.1588 0.0230

Saturn 96809-10-16 05:02 G 37080109.66 37080109.71 37080109.77 0.0281 0.0251

Saturn 96810-01-12 15:50 G 37080198.04 37080198.16 37080198.28 0.0280 0.0113

Saturn 96810-04-11 02:38 G 37080286.48 37080286.61 37080286.74 0.0279 0.0023

Saturn 96810-07-08 13:12 G 37080374.95 37080375.05 37080375.16 0.0278 0.0157

Mars 96811-03-31 13:26 G 37080641.00 37080641.06 37080641.13 0.1581 0.1324

Jupiter 96815-06-14 18:14 G 37082177.09 37082177.26 37082177.43 0.0513 0.0201

Mars 96815-12-15 17:02 G 37082361.09 37082361.21 37082361.34 0.1957 0.1224

Earth 96817-01-09 03:50 G 37082751.64 37082751.66 37082751.68 0.2637 0.2581

Moon 96817-01-09 04:19 G 37082751.67 37082751.68 37082751.69 0.2633 0.2609 *

Mars 96818-09-16 00:14 G 37083366.40 37083366.51 37083366.62 0.1590 0.0607

Mars 96820-08-21 01:12 G 37084071.45 37084071.55 37084071.64 0.1583 0.0942

Jupiter 96821-02-08 16:19 G 37084243.07 37084243.18 37084243.29 0.0513 0.0256

Jupiter 96821-05-08 19:55 G 37084332.26 37084332.33 37084332.42 0.0511 0.0392

Moon 96824-01-03 04:48 G 37085301.61 37085301.70 37085301.79 0.2647 0.1458

Earth 96824-01-03 04:48 G 37085301.61 37085301.70 37085301.79 0.2640 0.1454 *

Pluto 96824-02-26 06:28 G 37085355.70 37085355.77 37085355.84 0.0061 0.0056

Pluto 96824-05-24 07:26 G 37085443.70 37085443.81 37085443.94 0.0061 0.0046

Pluto 96824-08-20 08:24 G 37085531.72 37085531.85 37085532.02 0.0061 0.0036

Pluto 96824-11-16 10:04 G 37085619.75 37085619.92 37085620.09 0.0061 0.0025

Pluto 96825-02-12 11:02 G 37085707.79 37085707.96 37085708.15 0.0061 0.0015

Mars 96825-05-06 08:24 G 37085790.69 37085790.85 37085791.02 0.1953 0.0249

Pluto 96825-05-11 12:28 G 37085795.84 37085796.02 37085796.21 0.0061 0.0004

Pluto 96825-08-07 13:40 G 37085883.89 37085884.07 37085884.26 0.0061 0.0006

Pluto 96825-11-03 14:52 G 37085971.94 37085972.12 37085972.30 0.0061 0.0016

Pluto 96826-01-30 15:50 G 37086060.01 37086060.16 37086060.34 0.0061 0.0027

Saturn 96826-04-19 08:52 G 37086138.71 37086138.87 37086139.03 0.0282 0.0154

Pluto 96826-04-28 17:16 G 37086148.08 37086148.22 37086148.37 0.0061 0.0038

Saturn 96826-07-17 09:21 G 37086227.71 37086227.89 37086228.08 0.0283 0.0058

Pluto 96826-07-25 18:00 G 37086236.16 37086236.25 37086236.39 0.0061 0.0049

Saturn 96826-10-14 09:50 G 37086316.86 37086316.91 37086316.98 0.0284 0.0270

Pluto 96826-10-21 19:40 G 37086324.28 37086324.32 37086324.38 0.0061 0.0059

Jupiter 96827-04-02 13:55 G 37086487.00 37086487.08 37086487.17 0.0512 0.0452

Mars 96828-02-06 12:00 G 37086796.91 37086797.00 37086797.10 0.1592 0.0984

Mars 96830-01-11 12:57 G 37087501.93 37087502.04 37087502.15 0.1584 0.0565

Jupiter 96832-11-27 20:38 G 37088553.29 37088553.36 37088553.43 0.0513 0.0429

Jupiter 96833-02-25 00:14 G 37088642.40 37088642.51 37088642.62 0.0511 0.0218

Mars 96834-09-25 23:45 G 37089220.41 37089220.49 37089220.56 0.1950 0.1722

Venus 96836-07-08 11:02 G 37089871.91 37089871.96 37089872.01 0.3632 0.3111

Earth 96837-01-04 21:50 G 37090052.30 37090052.41 37090052.52 0.2639 0.0068

Moon 96837-01-04 22:19 G 37090052.32 37090052.43 37090052.54 0.2643 0.0094 *

Mars 96837-06-29 00:00 G 37090227.44 37090227.50 37090227.55 0.1594 0.1360

Saturn 96839-03-05 08:38 G 37090841.86 37090841.86 37090841.86 0.0282 0.0282

Jupiter 96839-04-20 01:26 G 37090887.41 37090887.56 37090887.71 0.0514 0.0320

Saturn 96839-06-01 19:12 G 37090930.20 37090930.30 37090930.42 0.0281 0.0144

Mars 96839-06-04 00:43 G 37090932.41 37090932.53 37090932.65 0.1586 0.0188

Saturn 96839-08-29 06:00 G 37091018.62 37091018.75 37091018.88 0.0280 0.0011

Saturn 96839-11-25 16:48 G 37091107.08 37091107.20 37091107.31 0.0279 0.0128

Saturn 96840-02-22 03:21 G 37091195.60 37091195.64 37091195.68 0.0277 0.0262

Moon 96840-07-07 14:38 G 37091331.99 37091332.11 37091332.23 0.2694 0.1685

Earth 96840-07-07 16:33 G 37091332.05 37091332.19 37091332.32 0.2693 0.1328 *

Venus 96842-01-22 01:55 G 37091895.49 37091895.58 37091895.68 0.3630 0.1230

Uranus 96842-01-22 19:26 G 37091896.29 37091896.31 37091896.33 0.0142 0.0140

Uranus 96842-04-20 22:33 G 37091984.38 37091984.44 37091984.52 0.0142 0.0119

Uranus 96842-07-18 02:09 G 37092072.50 37092072.59 37092072.69 0.0142 0.0097

Uranus 96842-10-14 05:45 G 37092160.63 37092160.74 37092160.85 0.0143 0.0076

Uranus 96843-01-10 09:07 G 37092248.76 37092248.88 37092249.00 0.0143 0.0054

Uranus 96843-04-08 12:28 G 37092336.90 37092337.02 37092337.15 0.0143 0.0033

Uranus 96843-07-05 16:04 G 37092425.04 37092425.17 37092425.30 0.0143 0.0011

Uranus 96843-10-01 19:26 G 37092513.18 37092513.31 37092513.45 0.0143 0.0012

Uranus 96843-12-28 23:02 G 37092601.33 37092601.46 37092601.59 0.0143 0.0032

Uranus 96844-03-26 02:38 G 37092689.48 37092689.61 37092689.73 0.0143 0.0054

Uranus 96844-06-22 06:00 G 37092777.64 37092777.75 37092777.86 0.0143 0.0076

Uranus 96844-09-18 09:21 G 37092865.80 37092865.89 37092865.99 0.0143 0.0098

Jupiter 96844-12-14 04:48 G 37092952.58 37092952.70 37092952.83 0.0512 0.0054

Uranus 96844-12-15 12:57 G 37092953.98 37092954.04 37092954.12 0.0143 0.0120

Uranus 96845-03-13 16:19 G 37093042.18 37093042.18 37093042.21 0.0143 0.0142

Venus 96847-08-07 16:48 G 37093919.10 37093919.20 37093919.30 0.3628 0.0648

Mars 96848-10-24 12:28 G 37094362.90 37094363.02 37094363.14 0.1588 0.0188

Earth 96850-01-07 15:07 G 37094803.04 37094803.13 37094803.22 0.2638 0.1426

Moon 96850-01-07 15:50 G 37094803.07 37094803.16 37094803.25 0.2638 0.1479 *

Mars 96850-09-29 13:26 G 37095068.01 37095068.06 37095068.12 0.1581 0.1364

Jupiter 96851-02-05 21:07 G 37095197.19 37095197.38 37095197.56 0.0513 0.0065

Venus 96853-02-20 07:40 G 37095942.74 37095942.82 37095942.89 0.3626 0.2519

Moon 96853-07-10 23:45 G 37096083.40 37096083.49 37096083.59 0.2700 0.2150

Earth 96853-07-11 00:57 G 37096083.45 37096083.54 37096083.63 0.2695 0.2187 *

Mars 96855-06-15 18:00 G 37096788.13 37096788.25 37096788.37 0.1957 0.1330

Saturn 96855-09-06 08:24 G 37096870.72 37096870.85 37096870.98 0.0282 0.0205

Venus 96855-11-28 06:00 G 37096953.60 37096953.75 37096953.90 0.3744 0.1583

Saturn 96855-12-04 08:52 G 37096959.68 37096959.87 37096960.06 0.0283 0.0007

Saturn 96856-03-02 09:36 G 37097048.78 37097048.90 37097049.02 0.0285 0.0218

Jupiter 96856-10-02 09:21 G 37097262.77 37097262.89 37097263.01 0.0513 0.0113

Moon 96856-12-31 15:50 G 37097353.15 37097353.16 37097353.17 0.2646 0.2618

Earth 96856-12-31 16:19 G 37097353.16 37097353.18 37097353.20 0.2641 0.2588 *

Mars 96858-03-17 00:14 G 37097793.40 37097793.51 37097793.62 0.1590 0.0566

Mars 96860-02-20 01:12 G 37098498.46 37098498.55 37098498.64 0.1583 0.0986

Jupiter 96862-11-24 16:19 G 37099507.01 37099507.18 37099507.35 0.0513 0.0196

Mars 96864-11-04 09:21 G 37100217.73 37100217.89 37100218.06 0.1954 0.0144

Mars 96867-08-07 12:00 G 37101223.91 37101224.00 37101224.10 0.1592 0.0946

Jupiter 96868-07-21 14:24 G 37101572.99 37101573.10 37101573.20 0.0513 0.0271

Jupiter 96868-10-18 18:00 G 37101662.17 37101662.25 37101662.33 0.0511 0.0377

Saturn 96868-10-18 22:48 G 37101662.35 37101662.45 37101662.55 0.0281 0.0172

Saturn 96869-01-15 09:36 G 37101750.77 37101750.90 37101751.03 0.0279 0.0036

Saturn 96869-04-13 20:09 G 37101839.22 37101839.34 37101839.46 0.0278 0.0100

Saturn 96869-07-11 06:43 G 37101927.72 37101927.78 37101927.85 0.0277 0.0233

Mars 96869-07-12 12:57 G 37101928.93 37101929.04 37101929.15 0.1584 0.0607

Moon 96870-01-03 09:36 G 37102103.80 37102103.90 37102103.99 0.2646 0.1172

Earth 96870-01-03 09:21 G 37102103.80 37102103.89 37102103.99 0.2639 0.1167 *

Mars 96874-03-27 00:43 G 37103647.44 37103647.53 37103647.62 0.1950 0.1613

Jupiter 96874-09-12 10:48 G 37103816.88 37103816.95 37103817.03 0.0512 0.0466

Neptune 96876-12-26 02:38 G 37104652.60 37104652.61 37104652.65 0.0088 0.0086

Mars 96876-12-27 23:45 G 37104654.43 37104654.49 37104654.56 0.1594 0.1323

Neptune 96877-03-24 04:04 G 37104740.62 37104740.67 37104740.73 0.0088 0.0079

Neptune 96877-06-20 05:16 G 37104828.65 37104828.72 37104828.80 0.0088 0.0072

Neptune 96877-09-16 06:28 G 37104916.69 37104916.77 37104916.86 0.0088 0.0065

Neptune 96877-12-13 07:55 G 37105004.73 37105004.83 37105004.93 0.0088 0.0058

Neptune 96878-03-11 09:07 G 37105092.78 37105092.88 37105092.99 0.0088 0.0051

Neptune 96878-06-07 10:04 G 37105180.82 37105180.92 37105181.05 0.0088 0.0045

Neptune 96878-09-03 11:31 G 37105268.87 37105268.98 37105269.10 0.0088 0.0037

Neptune 96878-11-30 12:43 G 37105356.91 37105357.03 37105357.16 0.0088 0.0031

Mars 96878-12-03 00:43 G 37105359.41 37105359.53 37105359.64 0.1586 0.0229

Neptune 96879-02-26 14:09 G 37105444.96 37105445.09 37105445.22 0.0088 0.0023

Neptune 96879-05-25 15:21 G 37105533.01 37105533.14 37105533.27 0.0088 0.0016

Neptune 96879-08-21 16:33 G 37105621.06 37105621.19 37105621.33 0.0088 0.0010

Neptune 96879-11-17 18:00 G 37105709.11 37105709.25 37105709.38 0.0088 0.0003

Neptune 96880-02-13 19:12 G 37105797.17 37105797.30 37105797.43 0.0088 0.0005

Jupiter 96880-05-09 19:12 G 37105883.23 37105883.30 37105883.36 0.0514 0.0430

Neptune 96880-05-11 20:24 G 37105885.22 37105885.35 37105885.48 0.0088 0.0012

Jupiter 96880-08-06 22:48 G 37105972.34 37105972.45 37105972.57 0.0512 0.0219

Neptune 96880-08-07 21:36 G 37105973.28 37105973.40 37105973.53 0.0088 0.0019

Neptune 96880-11-03 22:48 G 37106061.33 37106061.45 37106061.58 0.0088 0.0026

Neptune 96881-01-31 00:00 G 37106149.39 37106149.50 37106149.63 0.0088 0.0033

Neptune 96881-04-29 01:12 G 37106237.44 37106237.55 37106237.68 0.0088 0.0040

Neptune 96881-07-26 02:38 G 37106325.50 37106325.61 37106325.73 0.0088 0.0046

Neptune 96881-10-22 03:50 G 37106413.56 37106413.66 37106413.77 0.0088 0.0053

Neptune 96882-01-18 05:02 G 37106501.62 37106501.71 37106501.81 0.0088 0.0061

Neptune 96882-04-16 06:14 G 37106589.69 37106589.76 37106589.85 0.0088 0.0068

Neptune 96882-07-13 07:26 G 37106677.76 37106677.81 37106677.89 0.0088 0.0075

Neptune 96882-10-09 08:38 G 37106765.83 37106765.86 37106765.92 0.0088 0.0082

Earth 96883-01-06 02:38 G 37106854.50 37106854.61 37106854.72 0.2638 0.0272

Moon 96883-01-06 03:21 G 37106854.53 37106854.64 37106854.74 0.2642 0.0370 *

Uranus 96883-05-16 02:09 G 37106984.51 37106984.59 37106984.69 0.0136 0.0120

Uranus 96883-08-12 09:36 G 37107072.77 37107072.90 37107073.06 0.0136 0.0093

Uranus 96883-11-08 17:31 G 37107161.06 37107161.23 37107161.41 0.0135 0.0064

Uranus 96884-02-05 01:12 G 37107249.36 37107249.55 37107249.74 0.0135 0.0037

Uranus 96884-05-03 08:52 G 37107337.67 37107337.87 37107338.06 0.0135 0.0009

Uranus 96884-07-30 16:19 G 37107425.99 37107426.18 37107426.38 0.0135 0.0019

Uranus 96884-10-26 23:45 G 37107514.31 37107514.49 37107514.68 0.0135 0.0046

Uranus 96885-01-23 07:12 G 37107602.65 37107602.80 37107602.97 0.0135 0.0074

Saturn 96885-01-23 07:40 G 37107602.75 37107602.82 37107602.90 0.0282 0.0255 *

Uranus 96885-04-21 14:52 G 37107690.99 37107691.12 37107691.25 0.0135 0.0101

Saturn 96885-04-22 08:24 G 37107691.66 37107691.85 37107692.04 0.0283 0.0045

Uranus 96885-07-18 22:04 G 37107779.37 37107779.42 37107779.50 0.0135 0.0128

Saturn 96885-07-20 09:07 G 37107780.72 37107780.88 37107781.03 0.0284 0.0167

Moon 96886-07-08 21:21 G 37108134.24 37108134.39 37108134.55 0.2695 0.0864

Earth 96886-07-08 23:16 G 37108134.31 37108134.47 37108134.62 0.2694 0.0671 *

Jupiter 96886-09-29 21:50 G 37108217.26 37108217.41 37108217.56 0.0514 0.0296

Mars 96888-04-24 12:28 G 37108789.90 37108790.02 37108790.14 0.1587 0.0150

Mars 96890-03-30 13:26 G 37109495.01 37109495.06 37109495.11 0.1581 0.1404

Jupiter 96892-05-26 03:07 G 37110282.50 37110282.63 37110282.75 0.0512 0.0048

Venus 96893-02-12 08:24 G 37110544.78 37110544.85 37110544.92 0.3631 0.2433

Mars 96894-12-14 18:43 G 37111215.16 37111215.28 37111215.39 0.1957 0.1416

Earth 96896-01-08 19:55 G 37111605.25 37111605.33 37111605.41 0.2637 0.1716

Moon 96896-01-08 20:38 G 37111605.28 37111605.36 37111605.44 0.2637 0.1871 *

Mars 96897-09-15 00:14 G 37112220.40 37112220.51 37112220.62 0.1590 0.0528

Saturn 96898-03-08 01:55 G 37112394.50 37112394.58 37112394.67 0.0281 0.0206

Saturn 96898-06-04 12:43 G 37112482.91 37112483.03 37112483.16 0.0280 0.0068

Jupiter 96898-07-18 18:00 G 37112527.07 37112527.25 37112527.44 0.0514 0.0054

Venus 96898-08-28 23:16 G 37112568.37 37112568.47 37112568.57 0.3630 0.0573

Saturn 96898-08-31 23:31 G 37112571.35 37112571.48 37112571.61 0.0279 0.0068

Saturn 96898-11-28 10:04 G 37112659.84 37112659.92 37112660.01 0.0278 0.0202

Moon 96899-07-12 06:57 G 37112885.76 37112885.79 37112885.82 0.2701 0.2631

Mars 96899-08-21 01:12 G 37112925.46 37112925.55 37112925.64 0.1583 0.1027

Moon 96903-01-02 20:52 G 37114155.32 37114155.37 37114155.41 0.2647 0.2408

Earth 96903-01-02 21:07 G 37114155.33 37114155.38 37114155.43 0.2640 0.2303 *

Venus 96904-03-14 13:55 G 37114591.99 37114592.08 37114592.18 0.3628 0.1322

Jupiter 96904-03-15 07:40 G 37114592.70 37114592.82 37114592.94 0.0512 0.0117

Mars 96904-05-06 10:33 G 37114644.77 37114644.94 37114645.10 0.1954 0.0060

Mars 96907-02-06 12:00 G 37115650.91 37115651.00 37115651.10 0.1592 0.0905

Mars 96909-01-11 12:57 G 37116355.93 37116356.04 37116356.15 0.1584 0.0648

Venus 96909-09-28 04:48 G 37116615.65 37116615.70 37116615.75 0.3626 0.3170

Jupiter 96910-05-07 13:55 G 37116836.91 37116837.08 37116837.25 0.0513 0.0199

Venus 96912-07-05 09:36 G 37117626.74 37117626.90 37117627.06 0.3745 0.1233

Mars 96913-09-26 01:40 G 37118074.47 37118074.57 37118074.68 0.1950 0.1506

Saturn 96914-09-10 06:57 G 37118423.62 37118423.79 37118423.97 0.0283 0.0103

Saturn 96914-12-08 07:40 G 37118512.65 37118512.82 37118513.00 0.0284 0.0109

Jupiter 96916-01-02 12:14 G 37118902.91 37118903.01 37118903.11 0.0513 0.0283

Moon 96916-01-05 14:24 G 37118905.99 37118906.10 37118906.20 0.2646 0.0828

Earth 96916-01-05 14:09 G 37118905.99 37118906.09 37118906.19 0.2639 0.0876 *

Jupiter 96916-03-31 15:50 G 37118992.07 37118992.16 37118992.25 0.0511 0.0364

Mars 96916-06-28 23:45 G 37119081.43 37119081.49 37119081.56 0.1594 0.1284

Pluto 96917-09-15 03:21 G 37119524.60 37119524.64 37119524.70 0.0084 0.0077

Pluto 96917-12-12 04:48 G 37119612.60 37119612.70 37119612.80 0.0084 0.0057

Pluto 96918-03-10 06:14 G 37119700.64 37119700.76 37119700.88 0.0083 0.0037

Mars 96918-06-04 00:43 G 37119786.41 37119786.53 37119786.65 0.1585 0.0271

Pluto 96918-06-06 07:26 G 37119788.68 37119788.81 37119788.95 0.0083 0.0017

Pluto 96918-09-02 08:38 G 37119876.73 37119876.86 37119877.00 0.0083 0.0003

Pluto 96918-11-29 09:50 G 37119964.78 37119964.91 37119965.05 0.0083 0.0022

Pluto 96919-02-25 11:16 G 37120052.85 37120052.97 37120053.09 0.0083 0.0041

Pluto 96919-05-24 12:14 G 37120140.93 37120141.01 37120141.11 0.0083 0.0061

Pluto 96919-08-20 13:40 G 37120229.04 37120229.07 37120229.11 0.0083 0.0080

Jupiter 96922-02-23 09:21 G 37121146.81 37121146.89 37121146.97 0.0512 0.0456

Uranus 96926-02-13 03:07 G 37122597.59 37122597.63 37122597.69 0.0142 0.0131

Uranus 96926-05-12 06:43 G 37122685.70 37122685.78 37122685.86 0.0142 0.0110

Uranus 96926-08-08 10:04 G 37122773.82 37122773.92 37122774.03 0.0143 0.0089

Uranus 96926-11-04 13:40 G 37122861.95 37122862.07 37122862.19 0.0143 0.0067

Uranus 96927-01-31 17:02 G 37122950.09 37122950.21 37122950.34 0.0143 0.0046

Uranus 96927-04-29 20:38 G 37123038.23 37123038.36 37123038.49 0.0143 0.0024

Uranus 96927-07-27 00:00 G 37123126.37 37123126.50 37123126.63 0.0143 0.0004

Saturn 96927-07-27 05:02 G 37123126.65 37123126.71 37123126.78 0.0281 0.0238

Jupiter 96927-10-21 17:02 G 37123213.15 37123213.21 37123213.27 0.0514 0.0442

Uranus 96927-10-23 03:36 G 37123214.52 37123214.65 37123214.78 0.0143 0.0020

Saturn 96927-10-23 15:50 G 37123215.04 37123215.16 37123215.28 0.0280 0.0100

Mars 96927-10-25 12:28 G 37123216.90 37123217.02 37123217.13 0.1587 0.0123

Jupiter 96928-01-18 20:52 G 37123302.25 37123302.37 37123302.48 0.0512 0.0208

Uranus 96928-01-19 06:57 G 37123302.67 37123302.79 37123302.92 0.0143 0.0042

Saturn 96928-01-20 02:38 G 37123303.48 37123303.61 37123303.74 0.0279 0.0036

Uranus 96928-04-16 10:33 G 37123390.82 37123390.94 37123391.06 0.0143 0.0063

Saturn 96928-04-17 13:12 G 37123391.95 37123392.05 37123392.16 0.0278 0.0171

Uranus 96928-07-13 13:55 G 37123478.98 37123479.08 37123479.19 0.0143 0.0085

Uranus 96928-10-09 17:31 G 37123567.15 37123567.23 37123567.32 0.0143 0.0107

Uranus 96929-01-05 20:52 G 37123655.33 37123655.37 37123655.44 0.0143 0.0129

Earth 96929-01-07 07:26 G 37123656.70 37123656.81 37123656.92 0.2638 0.0564

Moon 96929-01-07 08:09 G 37123656.73 37123656.84 37123656.94 0.2641 0.0663 *

Mars 96929-09-29 13:26 G 37123922.02 37123922.06 37123922.11 0.1581 0.1449

Moon 96932-07-10 04:33 G 37124936.53 37124936.69 37124936.85 0.2696 0.0253

Earth 96932-07-10 06:00 G 37124936.59 37124936.75 37124936.91 0.2694 0.0078 *

Jupiter 96934-03-12 19:12 G 37125547.14 37125547.30 37125547.45 0.0514 0.0289

Mars 96934-06-15 19:40 G 37125642.22 37125642.32 37125642.42 0.1957 0.1529

Mars 96937-03-17 00:14 G 37126647.40 37126647.51 37126647.62 0.1589 0.0489

Mars 96939-02-20 01:12 G 37127352.46 37127352.55 37127352.63 0.1582 0.1067

Jupiter 96939-11-07 01:40 G 37127612.45 37127612.57 37127612.70 0.0512 0.0051

Earth 96942-01-10 00:43 G 37128407.46 37128407.53 37128407.60 0.2637 0.2013

Moon 96942-01-10 01:26 G 37128407.49 37128407.56 37128407.62 0.2635 0.2084 *

Mars 96943-11-05 11:16 G 37129071.80 37129071.97 37129072.14 0.1954 0.0065

Saturn 96944-01-28 05:31 G 37129155.57 37129155.73 37129155.89 0.0282 0.0160

Saturn 96944-04-26 06:14 G 37129244.57 37129244.76 37129244.94 0.0283 0.0051

Saturn 96944-07-24 06:28 G 37129333.72 37129333.77 37129333.85 0.0285 0.0265

Jupiter 96945-12-29 15:07 G 37129856.94 37129857.13 37129857.31 0.0513 0.0040

Mars 96946-08-07 12:00 G 37130077.90 37130078.00 37130078.10 0.1592 0.0867

Mars 96948-07-12 12:57 G 37130782.93 37130783.04 37130783.14 0.1584 0.0689

Moon 96949-01-03 01:26 G 37130957.49 37130957.56 37130957.63 0.2647 0.1998

Earth 96949-01-03 01:40 G 37130957.50 37130957.57 37130957.64 0.2640 0.2019 *

Venus 96949-09-20 05:31 G 37131217.65 37131217.73 37131217.82 0.3631 0.1775

Jupiter 96951-08-26 06:00 G 37131922.63 37131922.75 37131922.88 0.0512 0.0120

Mars 96953-03-27 02:24 G 37132501.49 37132501.60 37132501.71 0.1950 0.1419

Venus 96955-04-05 20:24 G 37133241.25 37133241.35 37133241.45 0.3629 0.0129

Mars 96955-12-28 23:45 G 37133508.42 37133508.49 37133508.56 0.1594 0.1246

Saturn 96956-12-13 08:09 G 37133858.82 37133858.84 37133858.87 0.0282 0.0273

Saturn 96957-03-11 18:57 G 37133947.18 37133947.29 37133947.41 0.0281 0.0135

Saturn 96957-06-08 05:45 G 37134035.61 37134035.74 37134035.87 0.0280 0.0004

Saturn 96957-09-04 16:19 G 37134124.07 37134124.18 37134124.30 0.0278 0.0138

Jupiter 96957-10-17 11:16 G 37134166.80 37134166.97 37134167.15 0.0513 0.0204

Saturn 96957-12-02 03:07 G 37134212.61 37134212.63 37134212.66 0.0277 0.0270

Mars 96957-12-03 00:43 G 37134213.41 37134213.53 37134213.64 0.1586 0.0314

Venus 96960-10-19 11:16 G 37135264.88 37135264.97 37135265.05 0.3627 0.1971

Neptune 96960-12-05 14:09 G 37135312.06 37135312.09 37135312.16 0.0090 0.0087

Neptune 96961-03-03 18:00 G 37135400.17 37135400.25 37135400.38 0.0090 0.0076

Neptune 96961-05-30 22:19 G 37135488.29 37135488.43 37135488.57 0.0090 0.0064

Neptune 96961-08-27 02:09 G 37135576.43 37135576.59 37135576.75 0.0090 0.0053

Neptune 96961-11-23 05:45 G 37135664.57 37135664.74 37135664.92 0.0090 0.0042

Earth 96962-01-05 18:57 G 37135708.18 37135708.29 37135708.39 0.2639 0.0587

Moon 96962-01-05 19:12 G 37135708.20 37135708.30 37135708.41 0.2645 0.0586 *

Neptune 96962-02-19 09:36 G 37135752.72 37135752.90 37135753.09 0.0090 0.0031

Neptune 96962-05-18 13:26 G 37135840.87 37135841.06 37135841.25 0.0090 0.0020

Neptune 96962-08-14 17:16 G 37135929.02 37135929.22 37135929.41 0.0090 0.0009

Neptune 96962-11-10 21:07 G 37136017.18 37136017.38 37136017.57 0.0090 0.0003

Neptune 96963-02-07 00:43 G 37136105.34 37136105.53 37136105.73 0.0090 0.0013

Neptune 96963-05-06 04:33 G 37136193.50 37136193.69 37136193.88 0.0090 0.0024

Jupiter 96963-06-14 10:48 G 37136232.85 37136232.95 37136233.05 0.0513 0.0282

Neptune 96963-08-02 08:09 G 37136281.67 37136281.84 37136282.03 0.0090 0.0035

Jupiter 96963-09-11 14:24 G 37136322.01 37136322.10 37136322.19 0.0511 0.0364

Neptune 96963-10-29 12:00 G 37136369.83 37136370.00 37136370.17 0.0090 0.0046

Neptune 96964-01-25 15:36 G 37136458.01 37136458.15 37136458.31 0.0090 0.0057

Neptune 96964-04-22 19:12 G 37136546.19 37136546.30 37136546.44 0.0090 0.0068

Neptune 96964-07-19 22:48 G 37136634.38 37136634.45 37136634.56 0.0090 0.0079

Neptune 96964-10-16 02:52 G 37136722.62 37136722.62 37136722.63 0.0090 0.0090

Uranus 96967-03-10 03:21 G 37137597.63 37137597.64 37137597.66 0.0136 0.0135

Mars 96967-04-25 12:28 G 37137643.90 37137644.02 37137644.13 0.1587 0.0077

Uranus 96967-06-06 10:48 G 37137685.84 37137685.95 37137686.08 0.0136 0.0108

Uranus 96967-09-02 18:28 G 37137774.12 37137774.27 37137774.44 0.0135 0.0080

Uranus 96967-11-30 02:24 G 37137862.42 37137862.60 37137862.78 0.0135 0.0052

Uranus 96968-02-26 09:50 G 37137950.72 37137950.91 37137951.11 0.0135 0.0024

Uranus 96968-05-24 17:31 G 37138039.03 37138039.23 37138039.43 0.0135 0.0004

Uranus 96968-08-21 00:57 G 37138127.36 37138127.54 37138127.74 0.0135 0.0031

Uranus 96968-11-17 08:38 G 37138215.68 37138215.86 37138216.04 0.0135 0.0058

Uranus 96969-02-13 15:50 G 37138304.02 37138304.16 37138304.32 0.0135 0.0086

Mars 96969-03-30 13:26 G 37138349.02 37138349.06 37138349.10 0.1581 0.1489

Uranus 96969-05-12 23:16 G 37138392.38 37138392.47 37138392.59 0.0135 0.0113

Jupiter 96969-08-05 07:12 G 37138476.72 37138476.80 37138476.89 0.0512 0.0452

Saturn 96973-06-16 03:21 G 37139887.53 37139887.64 37139887.76 0.0282 0.0224

Saturn 96973-09-13 04:04 G 37139976.48 37139976.67 37139976.86 0.0283 0.0013

Saturn 96973-12-11 04:48 G 37140065.57 37140065.70 37140065.83 0.0284 0.0200

Mars 96973-12-14 20:52 G 37140069.28 37140069.37 37140069.46 0.1957 0.1642

Earth 96975-01-08 12:14 G 37140458.91 37140459.01 37140459.11 0.2638 0.0856

Moon 96975-01-08 12:43 G 37140458.93 37140459.03 37140459.14 0.2641 0.0986 *

Jupiter 96975-04-02 15:21 G 37140543.08 37140543.14 37140543.20 0.0514 0.0448

Jupiter 96975-06-30 18:57 G 37140632.18 37140632.29 37140632.41 0.0512 0.0201

Mars 96976-09-15 00:14 G 37141074.40 37141074.51 37141074.62 0.1589 0.0447

Moon 96978-07-11 11:31 G 37141738.83 37141738.98 37141739.14 0.2698 0.0434

Earth 96978-07-11 12:57 G 37141738.88 37141739.04 37141739.19 0.2694 0.0654 *

Mars	**96978-08-21 01:12**	**G**	**37141779.47**	**37141779.55**	**37141779.63**	**0.1582**	**0.1111**	
Jupiter	**96981-08-22 18:00**	**G**	**37142877.10**	**37142877.25**	**37142877.40**	**0.0514**	**0.0306**	
Mars	**96983-05-06 12:00**	**G**	**37143498.84**	**37143499.00**	**37143499.17**	**0.1954**	**0.0171**	
Mars	**96986-02-05 12:00**	**G**	**37144504.90**	**37144505.00**	**37144505.10**	**0.1592**	**0.0830**	
Saturn	**96986-07-29 21:50**	**G**	**37144679.31**	**37144679.41**	**37144679.51**	**0.0281**	**0.0172**	
Saturn	**96986-10-26 08:38**	**G**	**37144767.73**	**37144767.86**	**37144767.99**	**0.0280**	**0.0035**	
Saturn	**96987-01-22 19:12**	**G**	**37144856.18**	**37144856.30**	**37144856.42**	**0.0278**	**0.0101**	
Jupiter	**96987-04-19 00:00**	**G**	**37144942.37**	**37144942.50**	**37144942.63**	**0.0512**	**0.0044**	
Saturn	**96987-04-21 06:00**	**G**	**37144944.68**	**37144944.75**	**37144944.81**	**0.0277**	**0.0234**	
Earth	**96988-01-11 05:31**	**G**	**37145209.68**	**37145209.73**	**37145209.78**	**0.2637**	**0.2307**	
Moon	**96988-01-11 06:00**	**G**	**37145209.71**	**37145209.75**	**37145209.80**	**0.2633**	**0.2396**	*
Mars	**96988-01-11 12:57**	**G**	**37145209.93**	**37145210.04**	**37145210.14**	**0.1584**	**0.0731**	
Mars	**96992-09-25 03:36**	**G**	**37146928.53**	**37146928.65**	**37146928.78**	**0.1950**	**0.1301**	
Jupiter	**96993-06-10 12:57**	**G**	**37147186.86**	**37147187.04**	**37147187.23**	**0.0513**	**0.0044**	
Moon	**96995-01-04 06:14**	**G**	**37147759.69**	**37147759.76**	**37147759.84**	**0.2647**	**0.1824**	
Earth	**96995-01-04 06:28**	**G**	**37147759.69**	**37147759.77**	**37147759.85**	**0.2640**	**0.1728**	*
Mars	**96995-06-28 23:45**	**G**	**37147935.42**	**37147935.49**	**37147935.57**	**0.1594**	**0.1206**	
Mars	**96997-06-03 00:28**	**G**	**37148640.41**	**37148640.52**	**37148640.64**	**0.1585**	**0.0354**	
Jupiter	**96999-02-05 05:02**	**G**	**37149252.58**	**37149252.71**	**37149252.83**	**0.0513**	**0.0113**	
Venus	**97000-10-12 12:00**	**G**	**37149866.95**	**37149867.00**	**37149867.06**	**0.3632**	**0.2977**	

98TH MILLENNIUM CE

This is a list of transits of Mercury in the 98th millennium CE.

FROM	MAX-TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S

Saturn 97003-02-01 01:55 G 37150708.39 37150708.58 37150708.76 0.0283 0.0078

Saturn 97003-05-01 02:24 G 37150797.44 37150797.60 37150797.77 0.0284 0.0135

Mars 97004-11-19 11:31 G 37151365.98 37151365.98 37151365.99 0.1597 0.1587

Jupiter 97005-03-30 09:07 G 37151496.71 37151496.88 37151497.05 0.0513 0.0206

Venus 97006-04-28 02:52 G 37151890.52 37151890.62 37151890.72 0.3630 0.1099

Mars 97006-10-25 12:28 G 37152070.90 37152071.02 37152071.13 0.1587 0.0066

Earth 97008-01-07 23:45 G 37152510.38 37152510.49 37152510.60 0.2639 0.0307

Moon 97008-01-08 00:00 G 37152510.40 37152510.50 37152510.61 0.2644 0.0202 *

Mars 97008-09-29 13:26 G 37152776.03 37152776.06 37152776.09 0.1581 0.1531

Uranus 97010-03-06 10:33 G 37153298.89 37153298.94 37153299.01 0.0142 0.0125

Uranus 97010-06-02 14:09 G 37153387.00 37153387.09 37153387.18 0.0142 0.0104

Uranus 97010-08-29 17:31 G 37153475.13 37153475.23 37153475.34 0.0143 0.0083

Jupiter 97010-11-25 09:21 G 37153562.79 37153562.89 37153563.00 0.0513 0.0280

Uranus 97010-11-25 21:07 G 37153563.26 37153563.38 37153563.50 0.0143 0.0061

Uranus 97011-02-22 00:28 G 37153651.40 37153651.52 37153651.65 0.0143 0.0040

Jupiter 97011-02-22 12:57 G 37153651.96 37153652.04 37153652.13 0.0511 0.0366

Uranus 97011-05-21 04:04 G 37153739.54 37153739.67 37153739.80 0.0143 0.0018

Moon 97011-07-10 09:21 G 37153789.85 37153789.89 37153789.93 0.2693 0.2590

Earth 97011-07-10 11:02 G 37153789.88 37153789.96 37153790.05 0.2693 0.2234 *

Uranus 97011-08-17 07:26 G 37153827.68 37153827.81 37153827.94 0.0143 0.0005

Venus 97011-11-11 17:45 G 37153914.14 37153914.24 37153914.34 0.3628 0.0778

Uranus 97011-11-13 11:02 G 37153915.83 37153915.96 37153916.09 0.0143 0.0026

Uranus 97012-02-09 14:24 G 37154003.98 37154004.10 37154004.23 0.0143 0.0047

Uranus 97012-05-07 18:00 G 37154092.13 37154092.25 37154092.36 0.0143 0.0069

Uranus 97012-08-03 21:21 G 37154180.29 37154180.39 37154180.50 0.0143 0.0091

Uranus 97012-10-31 00:43 G 37154268.46 37154268.53 37154268.62 0.0143 0.0113

Uranus 97013-01-27 04:19 G 37154356.65 37154356.68 37154356.73 0.0143 0.0135

Mars 97013-06-15 21:07 G 37154496.31 37154496.38 37154496.46 0.1957 0.1722

Saturn 97015-12-18 00:28 G 37155411.44 37155411.52 37155411.61 0.0282 0.0212

Saturn 97016-03-15 11:16 G 37155499.85 37155499.97 37155500.10 0.0281 0.0074

Mars 97016-03-17 00:14 G 37155501.39 37155501.51 37155501.62 0.1589 0.0411

Saturn 97016-06-11 22:04 G 37155588.29 37155588.42 37155588.55 0.0279 0.0063

Saturn 97016-09-08 08:38 G 37155676.77 37155676.86 37155676.95 0.0278 0.0198

Jupiter 97017-01-16 05:16 G 37155806.63 37155806.72 37155806.81 0.0513 0.0450

Venus 97017-05-27 08:24 G 37155937.79 37155937.85 37155937.92 0.3627 0.2637

Mars 97018-02-20 01:12 G 37156206.47 37156206.55 37156206.63 0.1582 0.1152

Venus 97020-03-03 01:55 G 37156948.45 37156948.58 37156948.72 0.3744 0.2129

Earth 97021-01-09 17:02 G 37157261.11 37157261.21 37157261.30 0.2638 0.1151

Moon 97021-01-09 17:31 G 37157261.14 37157261.23 37157261.33 0.2640 0.1217 *

Jupiter 97022-09-13 14:09 G 37157873.03 37157873.09 37157873.16 0.0513 0.0440

Mars 97022-11-05 13:12 G 37157925.89 37157926.05 37157926.22 0.1954 0.0291

Jupiter 97022-12-11 17:45 G 37157962.13 37157962.24 37157962.36 0.0511 0.0208

Moon 97024-07-12 18:28 G 37158541.13 37158541.27 37158541.41 0.2699 0.1193

Earth 97024-07-12 19:40 G 37158541.19 37158541.32 37158541.46 0.2694 0.1317 *

Mars 97025-08-07 12:00 G 37158931.90 37158932.00 37158932.10 0.1591 0.0786

Mars 97027-07-13 12:57 G 37159636.93 37159637.04 37159637.14 0.1584 0.0773

Jupiter 97029-02-02 16:33 G 37160207.04 37160207.19 37160207.34 0.0514 0.0318

Mars 97032-03-27 04:33 G 37161355.56 37161355.69 37161355.82 0.1950 0.1205

Saturn 97032-06-19 22:48 G 37161440.29 37161440.45 37161440.62 0.0282 0.0149

Saturn 97032-09-16 23:31 G 37161529.29 37161529.48 37161529.66 0.0283 0.0062

Saturn 97032-12-15 00:00 G 37161618.46 37161618.50 37161618.55 0.0285 0.0276

Earth 97034-01-12 10:19 G 37162011.91 37162011.93 37162011.94 0.2637 0.2602

Jupiter 97034-09-29 22:33 G 37162272.31 37162272.44 37162272.56 0.0512 0.0045

Mars 97034-12-28 23:45 G 37162362.41 37162362.49 37162362.57 0.1594 0.1168

Mars 97036-12-03 00:43 G 37163067.41 37163067.53 37163067.64 0.1585 0.0396

Jupiter 97040-11-21 12:14 G 37164516.83 37164517.01 37164517.20 0.0513 0.0067

Moon 97041-01-05 11:16 G 37164561.87 37164561.97 37164562.06 0.2646 0.1400

Earth 97041-01-05 11:16 G 37164561.88 37164561.97 37164562.06 0.2640 0.1437 *

Neptune 97041-09-24 01:55 G 37164823.56 37164823.58 37164823.62 0.0088 0.0085

Neptune 97041-12-21 03:07 G 37164911.58 37164911.63 37164911.70 0.0088 0.0078

Neptune 97042-03-19 04:19 G 37164999.62 37164999.68 37164999.77 0.0088 0.0071

Neptune 97042-06-15 05:45 G 37165087.66 37165087.74 37165087.83 0.0088 0.0064

Neptune 97042-09-11 06:57 G 37165175.70 37165175.79 37165175.90 0.0088 0.0057

Neptune 97042-12-08 08:24 G 37165263.74 37165263.85 37165263.96 0.0088 0.0050

Neptune 97043-03-06 09:36 G 37165351.79 37165351.90 37165352.02 0.0088 0.0043

Neptune 97043-06-02 10:33 G 37165439.83 37165439.94 37165440.07 0.0088 0.0037

Neptune 97043-08-29 12:00 G 37165527.88 37165528.00 37165528.13 0.0088 0.0029

Neptune 97043-11-25 13:12 G 37165615.93 37165616.05 37165616.19 0.0088 0.0023

Neptune 97044-02-21 14:38 G 37165703.98 37165704.11 37165704.24 0.0088 0.0015

Neptune 97044-05-19 15:50 G 37165792.03 37165792.16 37165792.29 0.0088 0.0008

Mars 97044-05-20 11:31 G 37165792.96 37165792.98 37165793.01 0.1597 0.1549

Neptune 97044-08-15 17:02 G 37165880.08 37165880.21 37165880.35 0.0088 0.0003

Neptune 97044-11-11 18:14 G 37165968.13 37165968.26 37165968.40 0.0088 0.0007

Neptune 97045-02-07 19:40 G 37166056.19 37166056.32 37166056.45 0.0088 0.0013

Saturn 97045-05-06 02:52 G 37166143.57 37166143.62 37166143.67 0.0282 0.0254

Neptune 97045-05-06 20:52 G 37166144.24 37166144.37 37166144.50 0.0088 0.0019

Saturn 97045-08-02 13:40 G 37166231.95 37166232.07 37166232.19 0.0281 0.0115

Neptune 97045-08-02 22:04 G 37166232.30 37166232.42 37166232.55 0.0088 0.0026

Neptune 97045-10-29 23:16 G 37166320.35 37166320.47 37166320.60 0.0088 0.0034

Saturn 97045-10-30 00:28 G 37166320.39 37166320.52 37166320.65 0.0279 0.0022 *

Neptune 97046-01-26 00:28 G 37166408.41 37166408.52 37166408.64 0.0088 0.0041

Saturn 97046-01-26 11:02 G 37166408.86 37166408.96 37166409.07 0.0278 0.0157

Neptune 97046-04-24 01:40 G 37166496.47 37166496.57 37166496.69 0.0088 0.0048

Mars 97046-04-25 12:14 G 37166497.90 37166498.01 37166498.13 0.1587 0.0040

Jupiter 97046-07-19 03:21 G 37166582.52 37166582.64 37166582.77 0.0513 0.0113

Neptune 97046-07-21 02:52 G 37166584.53 37166584.62 37166584.74 0.0088 0.0055

Neptune 97046-10-17 04:19 G 37166672.59 37166672.68 37166672.78 0.0088 0.0061

Neptune 97047-01-13 05:31 G 37166760.66 37166760.73 37166760.82 0.0088 0.0069

Neptune 97047-04-11 06:43 G 37166848.73 37166848.78 37166848.86 0.0088 0.0076

Neptune 97047-07-08 07:55 G 37166936.80 37166936.83 37166936.89 0.0088 0.0083

Mars 97048-03-30 13:26 G 37167203.06 37167203.06 37167203.07 0.1581 0.1575

Uranus 97051-03-31 11:45 G 37168298.93 37168298.99 37168299.09 0.0136 0.0123

Uranus 97051-06-27 19:40 G 37168387.19 37168387.32 37168387.46 0.0136 0.0095

Uranus 97051-09-24 03:07 G 37168475.47 37168475.63 37168475.81 0.0135 0.0068

Uranus 97051-12-21 10:48 G 37168563.77 37168563.95 37168564.15 0.0135 0.0040

Uranus 97052-03-18 18:28 G 37168652.08 37168652.27 37168652.47 0.0135 0.0012

Uranus 97052-06-15 02:09 G 37168740.40 37168740.59 37168740.79 0.0135 0.0016

Jupiter 97052-09-09 07:40 G 37168826.64 37168826.82 37168826.99 0.0513 0.0194

Uranus 97052-09-11 09:36 G 37168828.72 37168828.90 37168829.09 0.0135 0.0044

Uranus 97052-12-08 17:16 G 37168917.05 37168917.22 37168917.39 0.0135 0.0071

Mars 97052-12-14 22:19 G 37168923.38 37168923.43 37168923.49 0.1957 0.1845

Uranus 97053-03-07 00:28 G 37169005.40 37169005.52 37169005.67 0.0135 0.0098

Uranus 97053-06-03 07:55 G 37169093.78 37169093.83 37169093.92 0.0135 0.0126

Earth 97054-01-08 04:33 G 37169312.58 37169312.69 37169312.80 0.2639 0.0094

Moon 97054-01-08 05:02 G 37169312.60 37169312.71 37169312.82 0.2644 0.0070 *

Mars 97055-09-16 00:14 G 37169928.39 37169928.51 37169928.62 0.1589 0.0373

Venus 97057-05-19 09:21 G 37170539.81 37170539.89 37170539.96 0.3631 0.2307

Moon 97057-07-10 16:19 G 37170592.06 37170592.18 37170592.30 0.2695 0.1700

Earth 97057-07-10 18:00 G 37170592.12 37170592.25 37170592.38 0.2693 0.1568 *

Mars 97057-08-21 00:57 G 37170633.47 37170633.54 37170633.62 0.1582 0.1192

Jupiter 97058-05-07 08:24 G 37170892.74 37170892.85 37170892.96 0.0513 0.0269

Jupiter 97058-08-04 12:00 G 37170981.92 37170982.00 37170982.09 0.0512 0.0379

Saturn 97061-11-06 19:40 G 37172172.21 37172172.32 37172172.45 0.0282 0.0220

Saturn 97062-02-03 20:24 G 37172261.16 37172261.35 37172261.54 0.0283 0.0009

Saturn 97062-05-03 20:52 G 37172350.25 37172350.37 37172350.51 0.0284 0.0204

Mars 97062-05-06 13:55 G 37172352.91 37172353.08 37172353.24 0.1954 0.0370

Venus 97062-12-03 00:14 G 37172563.41 37172563.51 37172563.61 0.3630 0.0456

Jupiter 97064-06-28 03:36 G 37173136.56 37173136.65 37173136.75 0.0512 0.0440

Mars 97065-02-05 12:00 G 37173358.89 37173359.00 37173359.10 0.1592 0.0751

Earth 97067-01-10 21:36 G 37174063.31 37174063.40 37174063.50 0.2638 0.1444

Moon 97067-01-10 22:19 G 37174063.35 37174063.43 37174063.52 0.2637 0.1599 *

Mars 97067-01-11 12:57 G 37174063.94 37174064.04 37174064.14 0.1584 0.0814

Venus 97068-06-17 14:52 G 37174587.03 37174587.12 37174587.21 0.3628 0.1441

Jupiter 97070-02-23 12:57 G 37175202.98 37175203.04 37175203.11 0.0513 0.0433

Pluto 97070-04-21 18:57 G 37175260.22 37175260.29 37175260.38 0.0061 0.0054

Jupiter 97070-05-23 16:33 G 37175292.08 37175292.19 37175292.31 0.0511 0.0215

Moon 97070-07-14 01:26 G 37175343.44 37175343.56 37175343.68 0.2700 0.1734

Earth 97070-07-14 02:38 G 37175343.50 37175343.61 37175343.72 0.2694 0.1984 *

Pluto 97070-07-18 19:55 G 37175348.22 37175348.33 37175348.48 0.0061 0.0044

Pluto 97070-10-14 21:07 G 37175436.24 37175436.38 37175436.56 0.0061 0.0034

Pluto 97071-01-10 22:33 G 37175524.28 37175524.44 37175524.62 0.0061 0.0023

Pluto 97071-04-08 23:45 G 37175612.32 37175612.49 37175612.69 0.0061 0.0013

Pluto 97071-07-06 01:12 G 37175700.37 37175700.55 37175700.74 0.0061 0.0002

Mars 97071-09-26 05:16 G 37175782.58 37175782.72 37175782.86 0.1951 0.1104

Pluto 97071-10-02 02:24 G 37175788.42 37175788.60 37175788.79 0.0061 0.0008

Pluto 97071-12-29 03:36 G 37175876.48 37175876.65 37175876.83 0.0061 0.0019

Pluto 97072-03-26 04:33 G 37175964.54 37175964.69 37175964.87 0.0061 0.0029

Pluto 97072-06-22 06:00 G 37176052.62 37176052.75 37176052.90 0.0061 0.0040

Pluto 97072-09-18 06:57 G 37176140.70 37176140.79 37176140.91 0.0061 0.0050

Pluto 97072-12-15 08:24 G 37176228.83 37176228.85 37176228.88 0.0061 0.0061

Venus 97074-01-01 05:45 G 37176610.70 37176610.74 37176610.78 0.3626 0.3301

Moon 97074-01-03 22:19 G 37176613.43 37176613.43 37176613.44 0.2647 0.2632

Earth 97074-01-03 22:48 G 37176613.43 37176613.45 37176613.47 0.2641 0.2574 *

Mars 97074-06-28 23:45 G 37176789.41 37176789.49 37176789.57 0.1594 0.1129

Saturn 97074-12-20 16:04 G 37176964.06 37176964.17 37176964.28 0.0282 0.0158

Saturn 97075-03-19 02:52 G 37177052.49 37177052.62 37177052.75 0.0280 0.0021

Saturn 97075-06-15 13:26 G 37177140.95 37177141.06 37177141.18 0.0279 0.0116

Saturn 97075-09-12 00:14 G 37177229.46 37177229.51 37177229.57 0.0278 0.0250

Mars 97076-06-03 00:28 G 37177494.41 37177494.52 37177494.64 0.1585 0.0433

Jupiter 97076-07-15 14:52 G 37177536.98 37177537.12 37177537.27 0.0514 0.0328

Venus 97076-10-08 05:31 G 37177621.57 37177621.73 37177621.89 0.3745 0.0672

Jupiter 97082-03-11 21:36 G 37179602.27 37179602.40 37179602.52 0.0512 0.0057

Mars 97083-11-19 11:31 G 37180219.95 37180219.98 37180220.02 0.1597 0.1508

Mars 97085-10-24 12:14 G 37180924.90 37180925.01 37180925.13 0.1587 0.0079

Earth 97087-01-06 16:04 G 37181364.07 37181364.17 37181364.26 0.2640 0.1149

Moon 97087-01-06 16:04 G 37181364.08 37181364.17 37181364.27 0.2646 0.1163 *

Jupiter 97088-05-03 11:16 G 37181846.79 37181846.97 37181847.16 0.0514 0.0084

Saturn 97091-06-23 16:48 G 37182993.03 37182993.20 37182993.39 0.0282 0.0084

Saturn 97091-09-20 17:31 G 37183082.06 37183082.23 37183082.40 0.0283 0.0128

Mars 97092-06-14 23:16 G 37183350.46 37183350.47 37183350.49 0.1957 0.1947

Uranus 97093-12-28 14:38 G 37183912.10 37183912.11 37183912.13 0.0142 0.0140

Jupiter 97093-12-29 02:09 G 37183912.47 37183912.59 37183912.72 0.0512 0.0107

Uranus 97094-03-26 18:00 G 37184000.19 37184000.25 37184000.33 0.0142 0.0119

Uranus 97094-06-22 21:36 G 37184088.31 37184088.40 37184088.49 0.0142 0.0098

Uranus 97094-09-19 00:57 G 37184176.43 37184176.54 37184176.65 0.0143 0.0077

Uranus 97094-12-16 04:19 G 37184264.57 37184264.68 37184264.81 0.0143 0.0056

Uranus 97095-03-14 07:55 G 37184352.70 37184352.83 37184352.96 0.0143 0.0034

Mars 97095-03-17 00:14 G 37184355.39 37184355.51 37184355.62 0.1589 0.0334

Uranus 97095-06-10 11:31 G 37184440.84 37184440.98 37184441.11 0.0143 0.0013

Uranus 97095-09-06 14:52 G 37184528.99 37184529.12 37184529.25 0.0143 0.0010

Uranus 97095-12-03 18:14 G 37184617.14 37184617.26 37184617.39 0.0143 0.0032

Uranus 97096-02-29 21:50 G 37184705.29 37184705.41 37184705.53 0.0143 0.0053

Uranus 97096-05-28 01:12 G 37184793.44 37184793.55 37184793.67 0.0143 0.0075

Uranus 97096-08-24 04:33 G 37184881.61 37184881.69 37184881.80 0.0143 0.0097

Uranus 97096-11-20 08:24 G 37184969.78 37184969.85 37184969.92 0.0143 0.0119

Uranus 97097-02-16 11:45 G 37185057.97 37185057.99 37185058.02 0.0143 0.0141

Mars 97097-02-19 01:12 G 37185060.47 37185060.55 37185060.62 0.1582 0.1238

Earth 97100-01-09 09:07 G 37186114.78 37186114.88 37186114.99 0.2639 0.0310

Moon 97100-01-09 09:50 G 37186114.80 37186114.91 37186115.01 0.2643 0.0448 *

Jupiter 97100-02-20 07:12 G 37186156.63 37186156.80 37186156.98 0.0513 0.0165

Mars 97101-11-05 14:52 G 37186779.96 37186780.12 37186780.28 0.1954 0.0485

Moon 97103-07-12 23:16 G 37187394.33 37187394.47 37187394.61 0.2696 0.1244

Earth 97103-07-13 00:57 G 37187394.39 37187394.54 37187394.69 0.2693 0.0891 *

Saturn 97104-05-09 18:00 G 37187696.16 37187696.25 37187696.34 0.0282 0.0206

Saturn 97104-08-06 04:48 G 37187784.57 37187784.70 37187784.83 0.0281 0.0068

Mars 97104-08-07 11:45 G 37187785.89 37187785.99 37187786.10 0.1591 0.0714

Saturn 97104-11-02 15:36 G 37187873.02 37187873.15 37187873.27 0.0279 0.0069

Saturn 97105-01-30 02:09 G 37187961.51 37187961.59 37187961.68 0.0278 0.0204

Jupiter 97105-10-18 07:12 G 37188222.69 37188222.80 37188222.91 0.0513 0.0263

Jupiter 97106-01-15 10:48 G 37188311.87 37188311.95 37188312.04 0.0511 0.0383

Mars 97106-07-13 12:43 G 37188490.94 37188491.03 37188491.13 0.1583 0.0855

Venus 97108-06-10 15:50 G 37189189.13 37189189.16 37189189.18 0.3633 0.3508

Mars 97111-03-28 06:14 G 37190209.62 37190209.76 37190209.91 0.1951 0.0998

Jupiter 97111-12-10 02:38 G 37190466.51 37190466.61 37190466.72 0.0512 0.0420

Earth 97113-01-12 02:24 G 37190865.52 37190865.60 37190865.68 0.2638 0.1741

Moon 97113-01-12 03:07 G 37190865.55 37190865.63 37190865.71 0.2636 0.1780 *

Venus 97113-12-25 06:28 G 37191212.68 37191212.77 37191212.86 0.3631 0.1636

Mars 97113-12-28 23:45 G 37191216.40 37191216.49 37191216.57 0.1594 0.1091

Mars 97115-12-04 00:28 G 37191921.41 37191921.52 37191921.63 0.1585 0.0472

Moon 97116-07-15 08:24 G 37192145.81 37192145.85 37192145.89 0.2700 0.2597

Earth 97116-07-15 09:36 G 37192145.87 37192145.90 37192145.92 0.2695 0.2645 *

Jupiter 97117-08-06 12:14 G 37192532.94 37192533.01 37192533.08 0.0514 0.0419

Jupiter 97117-11-03 15:50 G 37192622.05 37192622.16 37192622.28 0.0512 0.0230

Venus 97119-07-10 21:21 G 37193236.29 37193236.39 37193236.49 0.3629 0.0257

Moon 97120-01-06 03:07 G 37193415.59 37193415.63 37193415.68 0.2646 0.2357

Earth 97120-01-06 03:36 G 37193415.60 37193415.65 37193415.70 0.2641 0.2289 *

Saturn 97120-11-10 13:12 G 37193724.89 37193725.05 37193725.21 0.0282 0.0161

Saturn 97121-02-07 13:40 G 37193813.89 37193814.07 37193814.26 0.0283 0.0050

Saturn 97121-05-07 14:09 G 37193903.03 37193903.09 37193903.17 0.0284 0.0263

Mars 97123-05-21 11:31 G 37194646.94 37194646.98 37194647.02 0.1597 0.1472

Jupiter 97123-12-27 13:55 G 37194866.94 37194867.08 37194867.22 0.0514 0.0346

Venus 97125-01-23 12:14 G 37195259.93 37195260.01 37195260.09 0.3627 0.2106

Mars 97125-04-25 12:14 G 37195351.89 37195352.01 37195352.13 0.1587 0.0096

Neptune 97125-09-03 11:02 G 37195482.92 37195482.96 37195483.04 0.0090 0.0086

Neptune 97125-11-30 14:52 G 37195571.03 37195571.12 37195571.25 0.0090 0.0075

Neptune 97126-02-26 18:43 G 37195659.16 37195659.28 37195659.44 0.0090 0.0064

Neptune 97126-05-25 22:33 G 37195747.30 37195747.44 37195747.61 0.0090 0.0053

Neptune 97126-08-22 02:38 G 37195835.44 37195835.61 37195835.79 0.0090 0.0041

Neptune 97126-11-18 06:28 G 37195923.59 37195923.77 37195923.96 0.0090 0.0030

Neptune 97127-02-14 10:19 G 37196011.74 37196011.93 37196012.12 0.0090 0.0019

Neptune 97127-05-13 14:09 G 37196099.89 37196100.09 37196100.28 0.0090 0.0008

Neptune 97127-08-09 17:45 G 37196188.05 37196188.24 37196188.44 0.0090 0.0004

Neptune 97127-11-05 21:36 G 37196276.21 37196276.40 37196276.60 0.0090 0.0014

Neptune 97128-02-02 01:26 G 37196364.37 37196364.56 37196364.75 0.0090 0.0025

Neptune 97128-04-30 05:02 G 37196452.54 37196452.71 37196452.90 0.0090 0.0036

Neptune 97128-07-27 08:52 G 37196540.71 37196540.87 37196541.04 0.0090 0.0047

Neptune 97128-10-23 12:28 G 37196628.88 37196629.02 37196629.18 0.0090 0.0058

Neptune 97129-01-19 16:19 G 37196717.06 37196717.18 37196717.31 0.0090 0.0069

Neptune 97129-04-17 19:55 G 37196805.26 37196805.33 37196805.43 0.0090 0.0080

Jupiter 97129-08-22 20:38 G 37196932.23 37196932.36 37196932.48 0.0512 0.0069

Earth 97133-01-07 20:38 G 37198166.26 37198166.36 37198166.47 0.2640 0.0862

Moon 97133-01-07 20:52 G 37198166.27 37198166.37 37198166.48 0.2646 0.0806 *

Venus 97133-05-16 09:07 G 37198294.82 37198294.88 37198294.94 0.3745 0.3469

Saturn 97133-09-26 20:09 G 37198428.28 37198428.34 37198428.39 0.0283 0.0254

Saturn 97133-12-24 06:57 G 37198516.67 37198516.79 37198516.91 0.0281 0.0114

Saturn 97134-03-22 17:45 G 37198605.11 37198605.24 37198605.37 0.0280 0.0024

Saturn 97134-06-19 04:19 G 37198693.58 37198693.68 37198693.79 0.0279 0.0160

Mars 97134-09-16 00:00 G 37198782.39 37198782.50 37198782.62 0.1589 0.0294

Uranus 97135-04-21 20:09 G 37199000.24 37199000.34 37199000.46 0.0136 0.0112

Uranus 97135-07-19 03:50 G 37199088.52 37199088.66 37199088.82 0.0136 0.0084

Jupiter 97135-10-15 10:04 G 37199176.73 37199176.92 37199177.10 0.0514 0.0099

Uranus 97135-10-15 11:45 G 37199176.81 37199176.99 37199177.17 0.0136 0.0056 *

Uranus 97136-01-11 19:12 G 37199265.11 37199265.30 37199265.50 0.0135 0.0029

Uranus 97136-04-09 02:52 G 37199353.43 37199353.62 37199353.82 0.0135 0.0002

Uranus 97136-07-06 10:19 G 37199441.75 37199441.93 37199442.13 0.0135 0.0027

Mars 97136-08-21 00:57 G 37199487.48 37199487.54 37199487.61 0.1582 0.1279

Uranus 97136-10-02 18:00 G 37199530.07 37199530.25 37199530.43 0.0135 0.0054

Uranus 97136-12-30 01:12 G 37199618.41 37199618.55 37199618.72 0.0135 0.0083

Uranus 97137-03-28 08:52 G 37199706.77 37199706.87 37199706.99 0.0135 0.0109

Mars 97141-05-06 15:50 G 37201207.01 37201207.16 37201207.32 0.1955 0.0596

Jupiter 97141-06-11 01:40 G 37201242.44 37201242.57 37201242.69 0.0512 0.0089

Mars 97144-02-06 12:00 G 37202212.89 37202213.00 37202213.10 0.1591 0.0671

Earth 97146-01-10 13:55 G 37202916.98 37202917.08 37202917.19 0.2639 0.0588

Moon 97146-01-10 14:38 G 37202917.00 37202917.11 37202917.21 0.2642 0.0633 *

Mars 97146-01-11 12:43 G 37202917.94 37202918.03 37202918.13 0.1584 0.0898

Jupiter 97147-08-03 06:28 G 37203486.59 37203486.77 37203486.95 0.0513 0.0143

Moon 97149-07-13 06:00 G 37204196.60 37204196.75 37204196.91 0.2697 0.0364

Earth 97149-07-13 07:40 G 37204196.66 37204196.82 37204196.98 0.2693 0.0238 *

Saturn 97150-03-30 09:21 G 37204456.79 37204456.89 37204456.99 0.0281 0.0237

Saturn 97150-06-27 09:50 G 37204545.72 37204545.91 37204546.10 0.0282 0.0029

Saturn 97150-09-24 10:19 G 37204634.79 37204634.93 37204635.08 0.0283 0.0183

Mars 97150-09-26 07:12 G 37204636.65 37204636.80 37204636.95 0.1951 0.0891

Jupiter 97153-03-30 06:14 G 37205552.65 37205552.76 37205552.87 0.0513 0.0250

Jupiter 97153-06-27 09:50 G 37205641.83 37205641.91 37205641.99 0.0511 0.0394

Mars 97153-06-28 23:45 G 37205643.40 37205643.49 37205643.57 0.1594 0.1054

Mars 97155-06-04 00:28 G 37206348.41 37206348.52 37206348.63 0.1585 0.0517

Earth 97159-01-13 07:12 G 37207667.73 37207667.80 37207667.87 0.2638 0.2033

Moon 97159-01-13 07:55 G 37207667.77 37207667.83 37207667.89 0.2635 0.2203 *

Jupiter 97159-05-22 02:24 G 37207796.49 37207796.60 37207796.73 0.0513 0.0389

Mars 97162-11-19 11:31 G 37209073.93 37209073.98 37209074.03 0.1596 0.1435

Saturn 97163-05-13 08:24 G 37209248.75 37209248.85 37209248.96 0.0282 0.0166

Saturn 97163-08-09 19:26 G 37209337.18 37209337.31 37209337.44 0.0281 0.0028

Saturn 97163-11-06 06:00 G 37209425.63 37209425.75 37209425.87 0.0279 0.0110

Pluto 97163-11-09 17:45 G 37209429.19 37209429.24 37209429.31 0.0084 0.0074

Saturn 97164-02-02 16:48 G 37209514.14 37209514.20 37209514.26 0.0278 0.0245

Pluto 97164-02-05 18:57 G 37209517.20 37209517.29 37209517.40 0.0084 0.0055

Pluto 97164-05-03 20:24 G 37209605.23 37209605.35 37209605.48 0.0083 0.0034

Pluto 97164-07-30 21:36 G 37209693.27 37209693.40 37209693.54 0.0083 0.0015

Mars 97164-10-24 12:14 G 37209778.89 37209779.01 37209779.13 0.1587 0.0132

Pluto 97164-10-26 23:02 G 37209781.32 37209781.46 37209781.60 0.0083 0.0005

Venus 97165-01-15 12:57 G 37209861.98 37209862.04 37209862.10 0.3632 0.2832

Jupiter 97165-01-16 11:02 G 37209862.89 37209862.96 37209863.04 0.0513 0.0409

Pluto 97165-01-23 00:14 G 37209869.38 37209869.51 37209869.64 0.0083 0.0024

Jupiter 97165-04-15 14:52 G 37209952.01 37209952.12 37209952.23 0.0512 0.0239

Pluto 97165-04-21 01:26 G 37209957.45 37209957.56 37209957.68 0.0083 0.0044

Pluto 97165-07-18 02:38 G 37210045.53 37210045.61 37210045.70 0.0083 0.0063

Pluto 97165-10-14 03:50 G 37210133.66 37210133.66 37210133.68 0.0083 0.0082

Moon 97166-01-06 08:09 G 37210217.77 37210217.84 37210217.90 0.2646 0.2062

Earth 97166-01-06 08:24 G 37210217.78 37210217.85 37210217.91 0.2641 0.2003 *

Venus 97170-08-01 03:50 G 37211885.56 37211885.66 37211885.76 0.3631 0.0957

Jupiter 97171-06-08 13:12 G 37212196.93 37212197.05 37212197.18 0.0514 0.0371

Mars 97174-03-17 00:00 G 37213209.39 37213209.50 37213209.62 0.1589 0.0251

Venus 97176-02-14 18:43 G 37213909.18 37213909.28 37213909.37 0.3629 0.0914

Mars 97176-02-20 00:57 G 37213914.48 37213914.54 37213914.61 0.1582 0.1318

Jupiter 97177-02-01 19:55 G 37214262.20 37214262.33 37214262.45 0.0512 0.0086

Uranus 97178-01-18 21:50 G 37214613.38 37214613.41 37214613.45 0.0142 0.0136

Uranus 97178-04-17 01:12 G 37214701.48 37214701.55 37214701.63 0.0142 0.0114

Uranus 97178-07-14 04:33 G 37214789.60 37214789.69 37214789.80 0.0142 0.0094

Uranus 97178-10-10 08:09 G 37214877.73 37214877.84 37214877.95 0.0142 0.0072

Uranus 97179-01-06 11:31 G 37214965.86 37214965.98 37214966.11 0.0142 0.0051

Earth 97179-01-09 01:26 G 37214968.46 37214968.56 37214968.67 0.2639 0.0571

Moon 97179-01-09 01:55 G 37214968.47 37214968.58 37214968.68 0.2646 0.0538 *

Uranus 97179-04-04 15:07 G 37215054.00 37215054.13 37215054.26 0.0143 0.0029

Uranus 97179-07-01 18:28 G 37215142.14 37215142.27 37215142.40 0.0143 0.0008

Uranus 97179-09-27 22:04 G 37215230.29 37215230.42 37215230.55 0.0143 0.0014

Saturn 97179-11-14 06:00 G 37215277.57 37215277.75 37215277.93 0.0282 0.0107

Uranus 97179-12-25 01:26 G 37215318.44 37215318.56 37215318.69 0.0143 0.0036

Saturn 97180-02-11 06:28 G 37215366.59 37215366.77 37215366.95 0.0283 0.0103

Uranus 97180-03-22 04:48 G 37215406.59 37215406.70 37215406.83 0.0143 0.0058

Uranus 97180-06-18 08:24 G 37215494.74 37215494.85 37215494.96 0.0143 0.0079

Uranus 97180-09-14 11:45 G 37215582.91 37215582.99 37215583.09 0.0143 0.0101

Mars 97180-11-04 16:33 G 37215634.04 37215634.19 37215634.35 0.1955 0.0687

Uranus 97180-12-11 15:07 G 37215671.08 37215671.13 37215671.21 0.0143 0.0123

Venus 97181-08-30 09:21 G 37215932.83 37215932.89 37215932.96 0.3627 0.2767

Jupiter 97183-03-27 09:21 G 37216506.71 37216506.89 37216507.08 0.0514 0.0126

Mars 97183-08-07 11:45 G 37216639.89 37216639.99 37216640.10 0.1591 0.0632

Venus 97184-06-05 22:04 G 37216943.30 37216943.42 37216943.53 0.3743 0.2676

Mars 97185-07-12 12:43 G 37217344.94 37217345.03 37217345.13 0.1583 0.0938

Jupiter 97188-11-21 00:43 G 37218572.41 37218572.53 37218572.66 0.0512 0.0073

Mars 97190-03-27 07:55 G 37219063.68 37219063.83 37219063.98 0.1951 0.0797

Earth 97192-01-11 18:43 G 37219719.18 37219719.28 37219719.38 0.2638 0.0876

Moon 97192-01-11 19:26 G 37219719.21 37219719.31 37219719.41 0.2640 0.1010 *

Saturn 97192-09-29 10:19 G 37219980.85 37219980.93 37219981.01 0.0283 0.0216

Saturn 97192-12-26 21:07 G 37220069.26 37220069.38 37220069.51 0.0281 0.0076

Mars 97192-12-27 23:31 G 37220070.40 37220070.48 37220070.57 0.1594 0.1014

Saturn 97193-03-25 07:55 G 37220157.71 37220157.83 37220157.96 0.0280 0.0062

Saturn 97193-06-21 18:43 G 37220246.19 37220246.28 37220246.37 0.0279 0.0198

Mars 97194-12-03 00:28 G 37220775.41 37220775.52 37220775.63 0.1585 0.0555

Jupiter 97195-01-13 05:16 G 37220816.54 37220816.72 37220816.90 0.0514 0.0126

Moon 97195-07-14 13:12 G 37220998.89 37220999.05 37220999.21 0.2697 0.0134

Earth 97195-07-14 14:38 G 37220998.95 37220999.11 37220999.27 0.2693 0.0447 *

Jupiter 97200-09-09 05:45 G 37222882.63 37222882.74 37222882.85 0.0512 0.0228

Jupiter 97200-12-07 09:21 G 37222971.82 37222971.89 37222971.96 0.0510 0.0415

Mars 97202-05-20 11:31 G 37223500.92 37223500.98 37223501.03 0.1596 0.1392

Mars 97204-04-24 12:14 G 37224205.89 37224206.01 37224206.13 0.1587 0.0175

Earth 97205-01-13 12:00 G 37224469.95 37224470.00 37224470.05 0.2637 0.2330

Moon 97205-01-13 12:28 G 37224469.98 37224470.02 37224470.07 0.2635 0.2372 *

Neptune 97206-06-22 01:26 G 37224994.52 37224994.56 37224994.60 0.0088 0.0083

Neptune 97206-09-18 02:24 G 37225082.55 37225082.60 37225082.67 0.0088 0.0077

Jupiter 97206-11-01 01:40 G 37225126.45 37225126.57 37225126.71 0.0513 0.0367

Neptune 97206-12-15 03:36 G 37225170.58 37225170.65 37225170.74 0.0088 0.0070

Neptune 97207-03-13 05:02 G 37225258.62 37225258.71 37225258.81 0.0088 0.0063

Neptune 97207-06-09 06:14 G 37225346.67 37225346.76 37225346.87 0.0088 0.0056

Neptune 97207-09-05 07:26 G 37225434.71 37225434.81 37225434.93 0.0088 0.0049

Neptune 97207-12-02 08:52 G 37225522.76 37225522.87 37225522.99 0.0088 0.0042

Neptune 97208-02-28 10:04 G 37225610.80 37225610.92 37225611.04 0.0088 0.0035

Neptune 97208-05-26 11:16 G 37225698.85 37225698.97 37225699.10 0.0088 0.0028

Neptune 97208-08-22 12:28 G 37225786.90 37225787.02 37225787.15 0.0088 0.0021

Neptune 97208-11-18 13:40 G 37225874.95 37225875.07 37225875.21 0.0088 0.0015

Neptune 97209-02-14 15:07 G 37225963.00 37225963.13 37225963.26 0.0088 0.0007

Saturn 97209-04-02 01:55 G 37226009.44 37226009.58 37226009.72 0.0281 0.0185

Neptune 97209-05-13 16:19 G 37226051.05 37226051.18 37226051.31 0.0088 0.0001

Saturn 97209-06-30 02:24 G 37226098.41 37226098.60 37226098.79 0.0282 0.0024

Neptune 97209-08-09 17:31 G 37226139.10 37226139.23 37226139.36 0.0088 0.0007

Saturn 97209-09-27 02:52 G 37226187.51 37226187.62 37226187.72 0.0283 0.0235

Neptune 97209-11-05 18:43 G 37226227.15 37226227.28 37226227.42 0.0088 0.0014

Neptune 97210-02-01 19:55 G 37226315.21 37226315.33 37226315.47 0.0088 0.0021

Neptune 97210-04-30 21:21 G 37226403.26 37226403.39 37226403.51 0.0088 0.0028

Neptune 97210-07-27 22:33 G 37226491.32 37226491.44 37226491.56 0.0088 0.0035

Neptune 97210-10-23 23:45 G 37226579.38 37226579.49 37226579.61 0.0088 0.0042

Neptune 97211-01-20 00:57 G 37226667.44 37226667.54 37226667.66 0.0088 0.0049

Neptune 97211-04-18 02:09 G 37226755.50 37226755.59 37226755.70 0.0088 0.0056

Neptune 97211-07-15 03:21 G 37226843.56 37226843.64 37226843.74 0.0088 0.0063

Neptune 97211-10-11 04:33 G 37226931.62 37226931.69 37226931.78 0.0088 0.0070

Neptune 97212-01-07 05:45 G 37227019.69 37227019.74 37227019.82 0.0088 0.0077

Moon 97212-01-07 12:57 G 37227019.96 37227020.04 37227020.12 0.2647 0.1682

Earth 97212-01-07 12:57 G 37227019.96 37227020.04 37227020.12 0.2641 0.1711 *

Neptune 97212-04-04 07:12 G 37227107.77 37227107.80 37227107.85 0.0088 0.0084

Jupiter 97212-06-28 10:19 G 37227192.86 37227192.93 37227193.02 0.0513 0.0391

Jupiter 97212-09-25 14:09 G 37227281.98 37227282.09 37227282.20 0.0511 0.0255

Mars 97213-09-15 00:00 G 37227636.39 37227636.50 37227636.62 0.1589 0.0209

Mars 97215-08-21 00:57 G 37228341.49 37228341.54 37228341.60 0.1582 0.1365

Jupiter 97218-11-18 13:12 G 37229526.94 37229527.05 37229527.17 0.0514 0.0405

Uranus 97219-02-12 20:09 G 37229613.30 37229613.34 37229613.40 0.0136 0.0131

Uranus 97219-05-12 03:50 G 37229701.54 37229701.66 37229701.80 0.0136 0.0103

Uranus 97219-08-08 11:45 G 37229789.83 37229789.99 37229790.15 0.0136 0.0075

Uranus 97219-11-04 19:12 G 37229878.13 37229878.30 37229878.49 0.0136 0.0048

Uranus 97220-02-01 02:52 G 37229966.43 37229966.62 37229966.82 0.0136 0.0020

Uranus 97220-04-29 10:33 G 37230054.75 37230054.94 37230055.14 0.0136 0.0009

Mars 97220-05-05 17:31 G 37230061.08 37230061.23 37230061.38 0.1955 0.0792

Uranus 97220-07-26 18:14 G 37230143.07 37230143.26 37230143.45 0.0136 0.0036

Uranus 97220-10-23 01:40 G 37230231.40 37230231.57 37230231.75 0.0135 0.0063

Uranus 97221-01-19 09:21 G 37230319.75 37230319.89 37230320.03 0.0135 0.0091

Uranus 97221-04-17 16:33 G 37230408.11 37230408.19 37230408.30 0.0135 0.0118

Venus 97221-08-22 10:19 G 37230534.85 37230534.93 37230535.01 0.3632 0.2167

Saturn 97222-02-16 11:31 G 37230712.95 37230712.98 37230713.02 0.0283 0.0272

Saturn 97222-05-15 22:33 G 37230801.32 37230801.44 37230801.55 0.0282 0.0131

Saturn 97222-08-12 09:21 G 37230889.76 37230889.89 37230890.02 0.0281 0.0009

Saturn 97222-11-08 20:09 G 37230978.23 37230978.34 37230978.45 0.0279 0.0145

Mars 97223-02-05 11:45 G 37231066.88 37231066.99 37231067.10 0.1591 0.0593

Jupiter 97224-07-14 18:57 G 37231592.17 37231592.29 37231592.42 0.0512 0.0099

Earth 97225-01-09 06:14 G 37231770.65 37231770.76 37231770.87 0.2639 0.0274

Moon 97225-01-09 06:43 G 37231770.67 37231770.78 37231770.88 0.2645 0.0251 *

Mars 97225-01-10 12:43 G 37231771.94 37231772.03 37231772.12 0.1583 0.0980

Venus 97227-03-08 01:12 G 37232558.45 37232558.55 37232558.65 0.3630 0.0330

Earth 97228-07-11 12:43 G 37233049.97 37233050.03 37233050.09 0.2692 0.2482

Mars 97229-09-25 09:07 G 37233490.72 37233490.88 37233491.04 0.1951 0.0681

Jupiter 97230-09-06 08:52 G 37233836.70 37233836.87 37233837.05 0.0514 0.0152

Mars 97232-06-27 23:31 G 37234497.39 37234497.48 37234497.58 0.1594 0.0974

Venus 97232-09-20 15:50 G 37234582.07 37234582.16 37234582.25 0.3628 0.1564

Mars 97234-06-03 00:28 G 37235202.41 37235202.52 37235202.63 0.1585 0.0596

Jupiter 97236-05-03 00:00 G 37235902.38 37235902.50 37235902.63 0.0513 0.0056

Earth 97238-01-11 23:31 G 37236521.38 37236521.48 37236521.58 0.2638 0.1170

Moon 97238-01-12 00:14 G 37236521.41 37236521.51 37236521.60 0.2639 0.1272 *

Venus 97238-04-06 06:43 G 37236605.75 37236605.78 37236605.81 0.3626 0.3425

Saturn 97238-08-19 21:50 G 37236741.35 37236741.41 37236741.47 0.0280 0.0265

Saturn 97238-11-16 22:19 G 37236830.24 37236830.43 37236830.61 0.0282 0.0057

Saturn 97239-02-13 22:48 G 37236919.29 37236919.45 37236919.61 0.0283 0.0153

Venus 97241-01-11 01:26 G 37237616.40 37237616.56 37237616.73 0.3744 0.0165

Moon 97241-07-14 20:09 G 37237801.20 37237801.34 37237801.49 0.2698 0.0986

Earth 97241-07-14 21:35 G 37237801.25 37237801.40 37237801.54 0.2694 0.1107 *

Mars 97241-11-18 11:16 G 37237927.92 37237927.97 37237928.03 0.1596 0.1359

Jupiter 97242-06-25 05:02 G 37238146.53 37238146.71 37238146.90 0.0513 0.0095

Mars 97243-10-24 12:14 G 37238632.89 37238633.01 37238633.13 0.1587 0.0215

Jupiter 97248-02-20 05:02 G 37240212.60 37240212.71 37240212.82 0.0512 0.0211

Jupiter 97248-05-19 08:38 G 37240301.79 37240301.86 37240301.92 0.0510 0.0431

Earth 97251-01-14 16:48 G 37241272.19 37241272.20 37241272.20 0.2637 0.2624

Saturn 97251-10-03 00:14 G 37241533.41 37241533.51 37241533.61 0.0283 0.0182

Saturn 97251-12-30 11:02 G 37241621.83 37241621.96 37241622.09 0.0282 0.0042

Saturn 97252-03-27 21:50 G 37241710.29 37241710.41 37241710.54 0.0280 0.0096

Saturn 97252-06-24 08:38 G 37241798.79 37241798.86 37241798.93 0.0279 0.0232

Mars 97253-03-16 00:00 G 37242063.38 37242063.50 37242063.62 0.1589 0.0169

Jupiter 97254-04-13 00:43 G 37242456.39 37242456.53 37242456.67 0.0513 0.0350

Mars 97255-02-19 00:57 G 37242768.49 37242768.54 37242768.59 0.1582 0.1405

Moon 97258-01-07 17:45 G 37243822.15 37243822.24 37243822.33 0.2647 0.1478

Earth 97258-01-07 17:45 G 37243822.15 37243822.24 37243822.33 0.2640 0.1421 *

Mars 97259-11-04 18:43 G 37244488.13 37244488.28 37244488.43 0.1955 0.0913

Jupiter 97259-12-09 10:04 G 37244522.83 37244522.92 37244523.01 0.0513 0.0366

Jupiter 97260-03-07 13:40 G 37244611.96 37244612.07 37244612.17 0.0511 0.0278

Uranus 97262-02-08 05:31 G 37245314.68 37245314.73 37245314.79 0.0142 0.0128

Uranus 97262-05-07 08:52 G 37245402.79 37245402.87 37245402.96 0.0142 0.0107

Uranus 97262-08-03 12:28 G 37245490.92 37245491.02 37245491.12 0.0142 0.0086

Mars 97262-08-06 11:45 G 37245493.88 37245493.99 37245494.10 0.1591 0.0549

Uranus 97262-10-30 15:50 G 37245579.05 37245579.16 37245579.28 0.0142 0.0064

Uranus 97263-01-26 19:11 G 37245667.18 37245667.30 37245667.43 0.0142 0.0043

Uranus 97263-04-24 22:48 G 37245755.32 37245755.45 37245755.58 0.0143 0.0022

Uranus 97263-07-22 02:09 G 37245843.46 37245843.59 37245843.73 0.0143 0.0004

Uranus 97263-10-18 05:45 G 37245931.61 37245931.74 37245931.87 0.0143 0.0021

Uranus 97264-01-14 09:07 G 37246019.76 37246019.88 37246020.01 0.0143 0.0043

Uranus 97264-04-11 12:28 G 37246107.91 37246108.02 37246108.14 0.0143 0.0065

Uranus 97264-07-08 16:04 G 37246196.07 37246196.17 37246196.28 0.0143 0.0086

Mars 97264-07-11 12:43 G 37246198.94 37246199.03 37246199.12 0.1583 0.1022

Uranus 97264-10-04 19:26 G 37246284.23 37246284.31 37246284.40 0.0143 0.0108

Uranus 97264-12-31 23:02 G 37246372.41 37246372.46 37246372.52 0.0143 0.0130

Jupiter 97266-04-30 12:28 G 37246856.92 37246857.02 37246857.12 0.0515 0.0428

Saturn 97268-04-04 18:28 G 37247562.10 37247562.27 37247562.44 0.0281 0.0133

Saturn 97268-07-02 18:57 G 37247651.10 37247651.29 37247651.47 0.0282 0.0076

Mars 97269-03-26 09:50 G 37247917.75 37247917.91 37247918.07 0.1951 0.0584

Earth 97271-01-10 11:02 G 37248572.85 37248572.96 37248573.07 0.2639 0.0044

Moon 97271-01-10 11:31 G 37248572.87 37248572.98 37248573.09 0.2644 0.0138 *

Jupiter 97271-12-25 18:14 G 37248922.14 37248922.26 37248922.39 0.0511 0.0118

Mars 97271-12-27 23:31 G 37248924.39 37248924.48 37248924.57 0.1593 0.0935

Venus 97272-09-12 16:33 G 37249184.16 37249184.19 37249184.23 0.3633 0.3375

Mars 97273-12-02 00:28 G 37249629.41 37249629.52 37249629.63 0.1585 0.0641

Moon 97274-07-12 17:45 G 37249852.15 37249852.24 37249852.34 0.2694 0.2123

Earth 97274-07-12 19:40 G 37249852.20 37249852.32 37249852.44 0.2692 0.1799 *

Jupiter 97278-02-16 08:52 G 37251166.69 37251166.87 37251167.04 0.0514 0.0184

Venus 97278-03-29 07:26 G 37251207.72 37251207.81 37251207.90 0.3631 0.1498

Saturn 97281-02-19 01:26 G 37252265.49 37252265.56 37252265.63 0.0283 0.0239

Saturn 97281-05-18 12:14 G 37252353.90 37252354.01 37252354.14 0.0282 0.0099

Mars 97281-05-19 11:16 G 37252354.91 37252354.97 37252355.04 0.1596 0.1319

Saturn 97281-08-14 23:16 G 37252442.34 37252442.47 37252442.60 0.0281 0.0042

Saturn 97281-11-11 10:04 G 37252530.82 37252530.92 37252531.02 0.0280 0.0179

Mars 97283-04-24 12:14 G 37253059.89 37253060.01 37253060.12 0.1587 0.0257

Venus 97283-10-12 22:19 G 37253231.33 37253231.43 37253231.53 0.3629 0.0364

Jupiter 97283-10-13 23:16 G 37253232.34 37253232.47 37253232.59 0.0512 0.0042

Earth 97284-01-13 04:04 G 37253323.58 37253323.67 37253323.76 0.2638 0.1469

Moon 97284-01-13 04:48 G 37253323.62 37253323.70 37253323.79 0.2638 0.1580 *

Moon 97287-07-16 03:21 G 37254603.52 37254603.64 37254603.77 0.2700 0.1632

Earth 97287-07-16 04:19 G 37254603.56 37254603.68 37254603.80 0.2694 0.1771 *

Venus 97289-04-27 13:11 G 37255254.97 37255255.05 37255255.12 0.3628 0.2228

Jupiter 97289-12-05 04:33 G 37255476.51 37255476.69 37255476.88 0.0513 0.0069

Neptune 97290-05-31 07:55 G 37255653.78 37255653.83 37255653.90 0.0090 0.0085

Neptune 97290-08-27 11:45 G 37255741.89 37255741.99 37255742.11 0.0090 0.0074

Neptune 97290-11-23 15:35 G 37255830.02 37255830.15 37255830.30 0.0090 0.0063

Earth 97291-01-06 05:16 G 37255873.70 37255873.72 37255873.75 0.2641 0.2563

Neptune 97291-02-19 19:26 G 37255918.16 37255918.31 37255918.48 0.0090 0.0052

Neptune 97291-05-18 23:16 G 37256006.30 37256006.47 37256006.65 0.0090 0.0041

Neptune 97291-08-15 03:07 G 37256094.45 37256094.63 37256094.82 0.0090 0.0029

Neptune 97291-11-11 06:57 G 37256182.60 37256182.79 37256182.99 0.0090 0.0018

Neptune 97292-02-07 10:48 G 37256270.76 37256270.95 37256271.15 0.0090 0.0007

Neptune 97292-05-05 14:38 G 37256358.92 37256359.11 37256359.31 0.0090 0.0004

Neptune 97292-08-01 18:28 G 37256447.08 37256447.27 37256447.46 0.0090 0.0015

Mars 97292-09-14 00:00 G 37256490.38 37256490.50 37256490.62 0.1589 0.0129

Neptune 97292-10-28 22:04 G 37256535.24 37256535.42 37256535.61 0.0090 0.0026

Neptune 97293-01-25 01:55 G 37256623.41 37256623.58 37256623.76 0.0090 0.0037

Neptune 97293-04-23 05:31 G 37256711.58 37256711.73 37256711.91 0.0090 0.0048

Neptune 97293-07-20 09:21 G 37256799.75 37256799.89 37256800.05 0.0090 0.0059

Neptune 97293-10-16 12:57 G 37256887.93 37256888.04 37256888.18 0.0090 0.0070

Neptune 97294-01-12 16:33 G 37256976.13 37256976.19 37256976.29 0.0090 0.0081

Mars 97294-08-20 00:57 G 37257195.50 37257195.54 37257195.59 0.1582 0.1446

Jupiter 97295-08-02 04:19 G 37257542.56 37257542.68 37257542.79 0.0513 0.0196

Jupiter 97295-10-30 07:40 G 37257631.77 37257631.82 37257631.89 0.0511 0.0449

Venus 97297-08-18 05:02 G 37258289.61 37258289.71 37258289.81 0.3745 0.2911

Saturn 97297-08-22 14:38 G 37258293.99 37258294.11 37258294.24 0.0280 0.0210

Saturn 97297-11-19 15:07 G 37258382.94 37258383.13 37258383.32 0.0281 0.0005

Saturn 97298-02-16 15:07 G 37258472.02 37258472.13 37258472.27 0.0283 0.0208

Mars 97299-05-05 19:11 G 37258915.16 37258915.30 37258915.44 0.1955 0.0994

Jupiter 97301-09-24 00:43 G 37259786.38 37259786.53 37259786.67 0.0513 0.0315

Mars 97302-02-05 11:45 G 37259920.88 37259920.99 37259921.10 0.1591 0.0512

Uranus 97303-03-06 03:50 G 37260314.59 37260314.66 37260314.75 0.0136 0.0122

Uranus 97303-06-02 11:45 G 37260402.85 37260402.99 37260403.13 0.0136 0.0094

Uranus 97303-08-29 19:26 G 37260491.14 37260491.31 37260491.48 0.0136 0.0066

Uranus 97303-11-26 02:52 G 37260579.44 37260579.62 37260579.82 0.0136 0.0039

Moon 97304-01-09 22:33 G 37260624.34 37260624.44 37260624.54 0.2647 0.1064

Earth 97304-01-09 22:33 G 37260624.34 37260624.44 37260624.54 0.2640 0.1133 *

Mars 97304-01-11 12:43 G 37260625.94 37260626.03 37260626.12 0.1583 0.1064

Uranus 97304-02-22 10:48 G 37260667.75 37260667.95 37260668.14 0.0136 0.0011

Uranus 97304-05-20 18:14 G 37260756.07 37260756.26 37260756.46 0.0136 0.0017

Uranus 97304-08-17 01:55 G 37260844.40 37260844.58 37260844.76 0.0136 0.0045

Uranus 97304-11-13 09:21 G 37260932.73 37260932.89 37260933.06 0.0136 0.0072

Uranus 97305-02-09 16:48 G 37261021.08 37261021.20 37261021.34 0.0135 0.0100

Uranus 97305-05-09 00:14 G 37261109.46 37261109.51 37261109.59 0.0135 0.0127

Jupiter 97307-05-22 09:07 G 37261852.79 37261852.88 37261852.98 0.0513 0.0351

Jupiter 97307-08-19 12:57 G 37261941.93 37261942.04 37261942.14 0.0511 0.0294

Mars 97308-09-25 10:48 G 37262344.79 37262344.95 37262345.11 0.1952 0.0478

Saturn 97310-10-06 13:55 G 37263085.97 37263086.08 37263086.19 0.0283 0.0150

Saturn 97311-01-03 00:57 G 37263174.41 37263174.54 37263174.67 0.0282 0.0011

Saturn 97311-04-01 11:45 G 37263262.87 37263262.99 37263263.10 0.0280 0.0129

Mars 97311-06-28 23:31 G 37263351.39 37263351.48 37263351.58 0.1593 0.0894

Saturn 97311-06-28 22:33 G 37263351.40 37263351.44 37263351.47 0.0279 0.0265 *

Mars 97313-06-03 00:28 G 37264056.41 37264056.52 37264056.62 0.1585 0.0682

Jupiter 97313-10-11 11:16 G 37264186.88 37264186.97 37264187.06 0.0515 0.0442

Pluto 97316-06-15 06:43 G 37265164.72 37265164.78 37265164.88 0.0061 0.0055

Pluto 97316-09-11 07:55 G 37265252.72 37265252.83 37265252.98 0.0061 0.0045

Pluto 97316-12-08 09:35 G 37265340.75 37265340.90 37265341.06 0.0061 0.0034

Earth 97317-01-11 15:50 G 37265375.05 37265375.16 37265375.26 0.2639 0.0329

Moon 97317-01-11 16:19 G 37265375.07 37265375.18 37265375.29 0.2642 0.0350 *

Pluto 97317-03-06 10:33 G 37265428.78 37265428.94 37265429.12 0.0061 0.0024

Pluto 97317-06-02 11:45 G 37265516.82 37265516.99 37265517.18 0.0061 0.0014

Pluto 97317-08-29 13:11 G 37265604.87 37265605.05 37265605.24 0.0061 0.0003

Pluto 97317-11-25 14:24 G 37265692.92 37265693.10 37265693.29 0.0061 0.0007

Pluto 97318-02-21 15:21 G 37265780.98 37265781.14 37265781.33 0.0061 0.0018

Pluto 97318-05-20 16:33 G 37265869.04 37265869.19 37265869.37 0.0061 0.0028

Pluto 97318-08-16 18:00 G 37265957.11 37265957.25 37265957.40 0.0061 0.0039

Pluto 97318-11-12 18:57 G 37266045.20 37266045.29 37266045.42 0.0061 0.0049

Pluto 97319-02-08 20:24 G 37266133.32 37266133.35 37266133.40 0.0061 0.0060

Jupiter 97319-03-10 14:09 G 37266163.08 37266163.09 37266163.12 0.0513 0.0505

Jupiter 97319-06-07 18:00 G 37266252.12 37266252.25 37266252.37 0.0511 0.0141

Moon 97320-07-14 00:43 G 37266654.39 37266654.53 37266654.67 0.2695 0.1305

Earth 97320-07-14 02:38 G 37266654.46 37266654.61 37266654.75 0.2693 0.1131 *

Mars 97320-11-18 11:16 G 37266781.91 37266781.97 37266782.04 0.1596 0.1278

Mars 97322-10-24 12:14 G 37267486.89 37267487.01 37267487.12 0.1587 0.0300

Jupiter 97325-07-30 07:40 G 37268496.65 37268496.82 37268497.00 0.0515 0.0201

Saturn 97327-04-09 11:31 G 37269114.80 37269114.98 37269115.17 0.0280 0.0076

Saturn 97327-07-07 11:45 G 37269203.83 37269203.99 37269204.16 0.0282 0.0133

Venus 97329-04-20 13:55 G 37269857.01 37269857.08 37269857.14 0.3633 0.2703

Earth 97330-01-14 08:52 G 37270125.79 37270125.87 37270125.95 0.2638 0.1759

Moon 97330-01-14 09:35 G 37270125.83 37270125.90 37270125.98 0.2638 0.1882 *

Jupiter 97331-03-26 22:33 G 37270562.31 37270562.44 37270562.57 0.0512 0.0023

Mars 97332-03-16 00:00 G 37270917.38 37270917.50 37270917.62 0.1589 0.0090

Moon 97333-07-17 10:33 G 37271405.86 37271405.94 37271406.02 0.2701 0.2328

Earth 97333-07-17 11:16 G 37271405.91 37271405.97 37271406.03 0.2694 0.2442 *

Mars 97334-02-19 00:57 G 37271622.51 37271622.54 37271622.58 0.1582 0.1492

Venus 97334-11-04 04:48 G 37271880.60 37271880.70 37271880.80 0.3631 0.0837

Moon 97337-01-07 09:50 G 37272675.86 37272675.91 37272675.96 0.2648 0.2273

Earth 97337-01-07 10:04 G 37272675.87 37272675.92 37272675.97 0.2641 0.2272 *

Jupiter 97337-05-18 04:04 G 37272806.49 37272806.67 37272806.86 0.0514 0.0043

Mars 97338-11-04 20:24 G 37273342.21 37273342.35 37273342.48 0.1955 0.1114

Saturn 97340-02-23 15:21 G 37273818.05 37273818.14 37273818.23 0.0283 0.0205

Venus 97340-05-19 19:26 G 37273904.22 37273904.31 37273904.41 0.3629 0.1039

Saturn 97340-05-22 02:09 G 37273906.47 37273906.59 37273906.72 0.0282 0.0064

Saturn 97340-08-18 12:57 G 37273994.92 37273995.04 37273995.17 0.0281 0.0076

Saturn 97340-11-15 00:00 G 37274083.41 37274083.50 37274083.58 0.0280 0.0213

Mars 97341-08-06 11:45 G 37274347.87 37274347.99 37274348.10 0.1591 0.0476

Jupiter 97343-01-13 03:21 G 37274872.52 37274872.64 37274872.76 0.0512 0.0182

Jupiter 97343-04-12 06:57 G 37274961.74 37274961.79 37274961.84 0.0511 0.0461

Mars 97343-07-12 12:43 G 37275052.95 37275053.03 37275053.11 0.1583 0.1106

Venus 97345-12-03 10:19 G 37275927.87 37275927.93 37275927.99 0.3627 0.2887

Uranus 97345-12-03 09:50 G 37275927.91 37275927.91 37275927.93 0.0142 0.0141 *

Uranus 97346-03-01 13:26 G 37276015.99 37276016.06 37276016.13 0.0142 0.0120

Uranus 97346-05-28 16:48 G 37276104.11 37276104.20 37276104.30 0.0142 0.0099

Uranus 97346-08-24 20:09 G 37276192.24 37276192.34 37276192.45 0.0142 0.0078

Uranus 97346-11-20 23:45 G 37276280.37 37276280.49 37276280.61 0.0142 0.0057

Uranus 97347-02-17 03:07 G 37276368.50 37276368.63 37276368.76 0.0142 0.0035

Uranus 97347-05-16 06:28 G 37276456.64 37276456.77 37276456.90 0.0142 0.0014

Uranus 97347-08-12 10:04 G 37276544.79 37276544.92 37276545.05 0.0143 0.0008

Uranus 97347-11-08 13:26 G 37276632.93 37276633.06 37276633.19 0.0143 0.0029

Uranus 97348-02-04 16:48 G 37276721.08 37276721.20 37276721.33 0.0143 0.0051

Mars 97348-03-26 11:45 G 37276771.83 37276771.99 37276772.15 0.1951 0.0374

Uranus 97348-05-02 20:24 G 37276809.24 37276809.35 37276809.46 0.0143 0.0072

Uranus 97348-07-29 23:45 G 37276897.40 37276897.49 37276897.59 0.0143 0.0094

Venus 97348-09-08 18:00 G 37276938.17 37276938.25 37276938.33 0.3743 0.3197

Uranus 97348-10-26 03:07 G 37276985.57 37276985.63 37276985.72 0.0143 0.0116

Uranus 97349-01-22 06:43 G 37277073.75 37277073.78 37277073.82 0.0143 0.0137

Jupiter 97349-03-06 00:00 G 37277116.34 37277116.50 37277116.65 0.0513 0.0293

Earth 97350-01-10 03:21 G 37277426.53 37277426.64 37277426.74 0.2640 0.0841

Moon 97350-01-10 03:35 G 37277426.54 37277426.65 37277426.75 0.2646 0.0878 *

Mars 97350-12-27 23:31 G 37277778.38 37277778.48 37277778.58 0.1593 0.0855

Mars 97352-12-02 00:14 G 37278483.41 37278483.51 37278483.62 0.1585 0.0722

Jupiter 97354-11-01 08:24 G 37279182.76 37279182.85 37279182.94 0.0513 0.0338

Jupiter 97355-01-29 12:00 G 37279271.90 37279272.00 37279272.10 0.0511 0.0307

Saturn 97356-08-26 08:09 G 37279846.68 37279846.84 37279847.00 0.0280 0.0150

Saturn 97356-11-23 08:24 G 37279935.67 37279935.85 37279936.04 0.0282 0.0058

Saturn 97357-02-20 08:38 G 37280024.81 37280024.86 37280024.93 0.0283 0.0268

Mars 97357-08-16 02:38 G 37280201.57 37280201.61 37280201.66 0.1947 0.1879

Mars 97360-05-19 11:16 G 37281208.90 37281208.97 37281209.04 0.1596 0.1240

Jupiter 97361-03-23 11:02 G 37281516.89 37281516.96 37281517.03 0.0515 0.0473

Mars 97362-04-24 12:14 G 37281913.89 37281914.01 37281914.12 0.1587 0.0342

Earth 97363-01-12 20:24 G 37282177.25 37282177.35 37282177.46 0.2639 0.0602

Moon 97363-01-12 21:07 G 37282177.28 37282177.38 37282177.48 0.2642 0.0768 *

Moon 97366-07-15 08:09 G 37283456.68 37283456.84 37283456.99 0.2696 0.0753

Earth 97366-07-15 09:35 G 37283456.74 37283456.90 37283457.05 0.2693 0.0444 *

Jupiter 97366-08-20 13:26 G 37283493.03 37283493.06 37283493.09 0.0513 0.0491

Jupiter 97366-11-17 17:02 G 37283582.09 37283582.21 37283582.33 0.0511 0.0154

Saturn 97369-07-12 17:02 G 37284550.16 37284550.21 37284550.26 0.0284 0.0256

Saturn 97369-10-09 04:04 G 37284638.55 37284638.67 37284638.79 0.0283 0.0114

Saturn 97370-01-05 14:52 G 37284726.99 37284727.12 37284727.25 0.0282 0.0027

Saturn 97370-04-04 01:40 G 37284815.47 37284815.57 37284815.68 0.0280 0.0165

Neptune 97371-03-20 00:28 G 37285165.48 37285165.52 37285165.57 0.0088 0.0082

Neptune 97371-06-16 01:55 G 37285253.51 37285253.58 37285253.65 0.0088 0.0075

Neptune 97371-09-12 03:07 G 37285341.55 37285341.63 37285341.71 0.0088 0.0068

Mars 97371-09-15 00:00 G 37285344.38 37285344.50 37285344.61 0.1589 0.0071

Neptune 97371-12-09 04:04 G 37285429.59 37285429.67 37285429.78 0.0088 0.0062

Neptune 97372-03-06 05:31 G 37285517.63 37285517.73 37285517.84 0.0088 0.0054

Neptune 97372-06-02 06:43 G 37285605.68 37285605.78 37285605.90 0.0088 0.0048

Neptune 97372-08-29 07:55 G 37285693.72 37285693.83 37285693.96 0.0088 0.0041

Neptune 97372-11-25 09:21 G 37285781.77 37285781.89 37285782.01 0.0088 0.0034

Jupiter 97373-01-09 06:14 G 37285826.59 37285826.76 37285826.93 0.0515 0.0210

Neptune 97373-02-21 10:33 G 37285869.82 37285869.94 37285870.07 0.0088 0.0027

Neptune 97373-05-20 11:45 G 37285957.87 37285957.99 37285958.12 0.0088 0.0020

Neptune 97373-08-16 13:11 G 37286045.92 37286046.05 37286046.18 0.0088 0.0013

Mars 97373-08-20 00:57 G 37286049.51 37286049.54 37286049.57 0.1582 0.1534

Neptune 97373-11-12 14:24 G 37286133.97 37286134.10 37286134.23 0.0088 0.0006

Neptune 97374-02-08 15:35 G 37286222.02 37286222.15 37286222.28 0.0088 0.0001

Neptune 97374-05-07 16:48 G 37286310.07 37286310.20 37286310.33 0.0088 0.0008

Neptune 97374-08-03 18:00 G 37286398.12 37286398.25 37286398.38 0.0088 0.0015

Neptune 97374-10-30 19:11 G 37286486.18 37286486.30 37286486.43 0.0088 0.0022

Neptune 97375-01-26 20:38 G 37286574.23 37286574.36 37286574.48 0.0088 0.0029

Neptune 97375-04-24 21:50 G 37286662.29 37286662.41 37286662.53 0.0088 0.0036

Neptune 97375-07-21 23:02 G 37286750.35 37286750.46 37286750.58 0.0088 0.0043

Neptune 97375-10-18 00:14 G 37286838.41 37286838.51 37286838.62 0.0088 0.0050

Neptune 97376-01-14 01:26 G 37286926.47 37286926.56 37286926.67 0.0088 0.0057

Earth 97376-01-15 13:40 G 37286928.00 37286928.07 37286928.14 0.2638 0.2054

Moon 97376-01-15 14:24 G 37286928.03 37286928.10 37286928.16 0.2636 0.2111 *

Neptune 97376-04-11 02:38 G 37287014.53 37287014.61 37287014.71 0.0088 0.0064

Neptune 97376-07-08 03:50 G 37287102.60 37287102.66 37287102.75 0.0088 0.0071

Neptune 97376-10-04 05:16 G 37287190.67 37287190.72 37287190.79 0.0088 0.0078

Neptune 97376-12-31 06:28 G 37287278.75 37287278.77 37287278.81 0.0088 0.0085

Mars 97378-05-05 21:21 G 37287769.26 37287769.39 37287769.52 0.1956 0.1223

Jupiter 97378-09-05 22:04 G 37287892.29 37287892.42 37287892.55 0.0511 0.0003

Mars 97381-02-04 11:45 G 37288774.87 37288774.99 37288775.10 0.1591 0.0430

Moon 97383-01-08 14:38 G 37289478.05 37289478.11 37289478.18 0.2648 0.2049

Earth 97383-01-08 14:52 G 37289478.05 37289478.12 37289478.19 0.2641 0.1980 *

Mars 97383-01-10 12:43 G 37289479.95 37289480.03 37289480.11 0.1583 0.1150

Jupiter 97384-10-28 02:38 G 37290136.42 37290136.61 37290136.80 0.0514 0.0033

Venus 97385-11-25 11:16 G 37290529.88 37290529.97 37290530.05 0.3632 0.2039

Saturn 97386-01-13 05:16 G 37290578.61 37290578.72 37290578.85 0.0279 0.0215

Saturn 97386-04-12 05:45 G 37290667.55 37290667.74 37290667.93 0.0280 0.0009

Saturn 97386-07-10 05:45 G 37290756.62 37290756.74 37290756.88 0.0282 0.0200

Uranus 97387-03-26 11:31 G 37291015.89 37291015.98 37291016.10 0.0136 0.0113

Uranus 97387-06-22 19:26 G 37291104.16 37291104.31 37291104.46 0.0136 0.0085

Uranus 97387-09-19 03:07 G 37291192.45 37291192.63 37291192.81 0.0136 0.0057

Mars 97387-09-25 12:43 G 37291198.86 37291199.03 37291199.19 0.1952 0.0268

Uranus 97387-12-16 10:33 G 37291280.76 37291280.94 37291281.14 0.0136 0.0030

Uranus 97388-03-13 18:28 G 37291369.07 37291369.27 37291369.46 0.0136 0.0002

Uranus 97388-06-10 01:55 G 37291457.39 37291457.58 37291457.78 0.0136 0.0026

Uranus 97388-09-06 09:35 G 37291545.72 37291545.90 37291546.08 0.0136 0.0054

Uranus 97388-12-03 17:02 G 37291634.06 37291634.21 37291634.37 0.0136 0.0081

Uranus 97389-03-02 00:28 G 37291722.42 37291722.52 37291722.65 0.0136 0.0109

Jupiter 97390-06-25 02:38 G 37292202.49 37292202.61 37292202.73 0.0512 0.0165

Mars 97390-06-27 23:31 G 37292205.38 37292205.48 37292205.58 0.1593 0.0816

Jupiter 97390-09-22 06:14 G 37292291.72 37292291.76 37292291.80 0.0510 0.0476

Venus 97391-06-11 01:55 G 37292553.48 37292553.58 37292553.68 0.3630 0.0203

Mars 97392-06-02 00:14 G 37292910.41 37292910.51 37292910.62 0.1585 0.0769

Earth 97396-01-11 07:55 G 37294228.73 37294228.83 37294228.94 0.2640 0.0557

Moon 97396-01-11 08:24 G 37294228.74 37294228.85 37294228.96 0.2645 0.0446 *

Jupiter 97396-08-15 23:02 G 37294446.30 37294446.46 37294446.62 0.0513 0.0274

Venus 97396-12-24 16:48 G 37294577.11 37294577.20 37294577.29 0.3628 0.1692

Mars 97397-02-14 03:50 G 37294628.59 37294628.66 37294628.73 0.1948 0.1763

Saturn 97399-02-26 05:31 G 37295370.63 37295370.73 37295370.83 0.0283 0.0167

Saturn 97399-05-25 16:19 G 37295459.06 37295459.18 37295459.31 0.0282 0.0028

Saturn 97399-08-22 03:21 G 37295547.52 37295547.64 37295547.76 0.0281 0.0113

Mars 97399-11-18 11:16 G 37295635.89 37295635.97 37295636.04 0.1596 0.1201

Saturn 97399-11-18 14:09 G 37295636.03 37295636.09 37295636.14 0.0280 0.0251 *

Mars 97401-10-24 12:00 G 37296340.89 37296341.00 37296341.12 0.1586 0.0381

Jupiter 97402-04-14 07:26 G 37296512.71 37296512.81 37296512.91 0.0513 0.0326

Venus 97402-07-11 07:40 G 37296600.80 37296600.82 37296600.84 0.3626 0.3546

Jupiter 97402-07-12 11:02 G 37296601.86 37296601.96 37296602.06 0.0511 0.0318

Venus 97405-04-16 21:21 G 37297611.22 37297611.39 37297611.55 0.3743 0.0492

Jupiter 97408-09-03 09:50 G 37298846.86 37298846.91 37298846.97 0.0515 0.0488

Earth 97409-01-14 01:11 G 37298979.45 37298979.55 37298979.65 0.2639 0.0897

Moon 97409-01-14 01:55 G 37298979.48 37298979.58 37298979.68 0.2641 0.0939 *

Mars 97409-04-10 23:02 G 37299066.45 37299066.46 37299066.47 0.1599 0.1587

Pluto 97410-01-03 06:57 G 37299333.78 37299333.79 37299333.82 0.0084 0.0083

Pluto 97410-04-01 08:24 G 37299421.77 37299421.85 37299421.94 0.0084 0.0063

Pluto 97410-06-28 09:35 G 37299509.79 37299509.90 37299510.02 0.0083 0.0043

Pluto 97410-09-24 11:02 G 37299597.83 37299597.96 37299598.09 0.0083 0.0024

Pluto 97410-12-21 12:14 G 37299685.88 37299686.01 37299686.15 0.0083 0.0005

Mars 97411-03-16 23:45 G 37299771.38 37299771.49 37299771.61 0.1589 0.0062

Pluto 97411-03-19 13:26 G 37299773.93 37299774.06 37299774.20 0.0083 0.0016

Pluto 97411-06-15 14:38 G 37299861.99 37299862.11 37299862.24 0.0083 0.0035

Pluto 97411-09-11 16:04 G 37299950.07 37299950.17 37299950.27 0.0083 0.0054

Pluto 97411-12-08 17:02 G 37300038.16 37300038.21 37300038.28 0.0083 0.0074

Moon 97412-07-16 15:07 G 37300258.97 37300259.13 37300259.29 0.2698 0.0166

Earth 97412-07-16 16:19 G 37300259.02 37300259.18 37300259.34 0.2693 0.0225 *

Mars 97413-02-19 00:57 G 37300476.53 37300476.54 37300476.54 0.1582 0.1575

Jupiter 97414-01-31 12:14 G 37300822.97 37300823.01 37300823.05 0.0513 0.0485

Jupiter 97414-04-30 15:50 G 37300912.04 37300912.16 37300912.28 0.0512 0.0162

Saturn 97415-08-31 02:52 G 37301399.44 37301399.62 37301399.81 0.0280 0.0079

Saturn 97415-11-28 03:07 G 37301488.47 37301488.63 37301488.81 0.0282 0.0130

Mars 97417-11-04 21:50 G 37302196.29 37302196.41 37302196.54 0.1955 0.1315

Jupiter 97420-06-22 05:45 G 37303156.57 37303156.74 37303156.90 0.0514 0.0237

Mars 97420-08-06 11:31 G 37303201.87 37303201.98 37303202.10 0.1591 0.0393

Earth 97422-01-16 18:28 G 37303730.22 37303730.27 37303730.32 0.2638 0.2348

Moon 97422-01-16 18:57 G 37303730.26 37303730.29 37303730.33 0.2634 0.2489 *

Mars 97422-07-12 12:43 G 37303906.95 37303907.03 37303907.10 0.1583 0.1193

Jupiter 97426-02-16 20:52 G 37305222.25 37305222.37 37305222.50 0.0512 0.0021

Mars 97427-03-27 13:26 G 37305625.89 37305626.06 37305626.23 0.1952 0.0166

Saturn 97428-07-16 07:26 G 37306102.73 37306102.81 37306102.90 0.0284 0.0215

Saturn 97428-10-12 18:28 G 37306191.15 37306191.27 37306191.40 0.0283 0.0073

Saturn 97429-01-09 05:16 G 37306279.60 37306279.72 37306279.85 0.0281 0.0069

Moon 97429-01-09 19:26 G 37306280.23 37306280.31 37306280.39 0.2648 0.1702

Earth 97429-01-09 19:40 G 37306280.24 37306280.32 37306280.40 0.2641 0.1693 *

Saturn 97429-04-07 16:04 G 37306368.09 37306368.17 37306368.26 0.0280 0.0207

Uranus 97429-12-24 18:00 G 37306629.21 37306629.25 37306629.30 0.0142 0.0132

Mars 97429-12-27 23:31 G 37306632.38 37306632.48 37306632.58 0.1593 0.0775

Uranus 97430-03-22 21:21 G 37306717.32 37306717.39 37306717.48 0.0142 0.0111

Uranus 97430-06-19 00:43 G 37306805.44 37306805.53 37306805.64 0.0142 0.0090

Uranus 97430-09-15 04:04 G 37306893.57 37306893.67 37306893.79 0.0142 0.0070

Uranus 97430-12-12 07:40 G 37306981.70 37306981.82 37306981.95 0.0142 0.0048

Uranus 97431-03-10 11:02 G 37307069.84 37307069.96 37307070.09 0.0142 0.0027

Uranus 97431-06-06 14:38 G 37307157.98 37307158.11 37307158.24 0.0142 0.0005

Uranus 97431-09-02 18:00 G 37307246.12 37307246.25 37307246.38 0.0143 0.0017

Uranus 97431-11-29 21:21 G 37307334.27 37307334.39 37307334.52 0.0143 0.0038

Mars 97431-12-03 00:14 G 37307337.41 37307337.51 37307337.61 0.1585 0.0807

Uranus 97432-02-26 00:57 G 37307422.42 37307422.54 37307422.66 0.0143 0.0060

Jupiter 97432-04-10 00:28 G 37307466.33 37307466.52 37307466.71 0.0514 0.0031

Uranus 97432-05-24 04:19 G 37307510.58 37307510.68 37307510.79 0.0143 0.0081

Uranus 97432-08-20 07:40 G 37307598.74 37307598.82 37307598.92 0.0143 0.0103

Uranus 97432-11-16 11:16 G 37307686.91 37307686.97 37307687.04 0.0143 0.0125

Mars 97436-08-16 05:02 G 37309055.62 37309055.71 37309055.80 0.1948 0.1650

Venus 97436-12-17 17:31 G 37309179.19 37309179.23 37309179.28 0.3634 0.3237

Jupiter 97437-12-06 01:55 G 37309532.46 37309532.58 37309532.70 0.0512 0.0147

Jupiter 97438-03-05 05:31 G 37309621.70 37309621.73 37309621.76 0.0510 0.0494

Mars 97439-05-20 11:16 G 37310062.89 37310062.97 37310063.05 0.1596 0.1159

Mars 97441-04-24 12:00 G 37310767.89 37310768.00 37310768.12 0.1586 0.0427

Earth 97442-01-12 12:43 G 37311030.92 37311031.03 37311031.14 0.2640 0.0259

Moon 97442-01-12 13:11 G 37311030.94 37311031.05 37311031.16 0.2644 0.0219 *

Venus 97442-07-03 08:24 G 37311202.76 37311202.85 37311202.94 0.3632 0.1363

Jupiter 97444-01-27 20:52 G 37311776.21 37311776.37 37311776.52 0.0514 0.0275

Saturn 97445-01-17 00:57 G 37312131.38 37312131.54 37312131.71 0.0279 0.0139

Saturn 97445-04-16 01:11 G 37312220.37 37312220.55 37312220.74 0.0281 0.0068

Saturn 97445-07-14 01:11 G 37312309.53 37312309.55 37312309.59 0.0282 0.0277

Venus 97448-01-16 23:16 G 37313226.37 37313226.47 37313226.57 0.3630 0.0499

Mars 97448-10-09 23:02 G 37313493.43 37313493.46 37313493.48 0.1599 0.1549

Jupiter 97449-09-24 06:28 G 37313842.67 37313842.77 37313842.87 0.0512 0.0313

Jupiter 97449-12-22 10:04 G 37313931.82 37313931.92 37313932.02 0.0511 0.0329

Mars 97450-09-14 23:45 G 37314198.38 37314198.49 37314198.61 0.1588 0.0052

Venus 97453-08-01 14:09 G 37315250.01 37315250.09 37315250.16 0.3628 0.2358

Earth 97455-01-15 06:00 G 37315781.65 37315781.75 37315781.85 0.2639 0.1194

Moon 97455-01-15 06:28 G 37315781.68 37315781.77 37315781.87 0.2640 0.1363 *

Neptune 97455-02-27 05:16 G 37315824.65 37315824.72 37315824.79 0.0090 0.0083

Neptune 97455-05-26 09:07 G 37315912.77 37315912.88 37315913.00 0.0090 0.0072

Neptune 97455-08-22 12:43 G 37316000.90 37316001.03 37316001.18 0.0090 0.0061

Neptune 97455-11-18 16:33 G 37316089.04 37316089.19 37316089.36 0.0090 0.0050

Jupiter 97456-02-14 08:38 G 37316176.82 37316176.86 37316176.90 0.0515 0.0500

Neptune 97456-02-14 20:24 G 37316177.18 37316177.35 37316177.53 0.0090 0.0039

Neptune 97456-05-13 00:14 G 37316265.33 37316265.51 37316265.70 0.0090 0.0028

Neptune 97456-08-09 04:04 G 37316353.48 37316353.67 37316353.87 0.0090 0.0017

Neptune 97456-11-05 07:55 G 37316441.64 37316441.83 37316442.03 0.0090 0.0006

Neptune 97457-02-01 11:45 G 37316529.79 37316529.99 37316530.19 0.0090 0.0005

Neptune 97457-04-30 15:21 G 37316617.96 37316618.14 37316618.34 0.0090 0.0017

Mars 97457-05-05 22:48 G 37316623.34 37316623.45 37316623.56 0.1956 0.1424

Neptune 97457-07-27 19:11 G 37316706.12 37316706.30 37316706.49 0.0090 0.0027

Neptune 97457-10-23 22:48 G 37316794.29 37316794.45 37316794.64 0.0090 0.0039

Saturn 97457-12-03 09:21 G 37316834.85 37316834.89 37316834.94 0.0284 0.0264

Neptune 97458-01-20 02:38 G 37316882.46 37316882.61 37316882.78 0.0090 0.0050

Saturn 97458-03-01 20:24 G 37316923.23 37316923.35 37316923.47 0.0283 0.0121

Neptune 97458-04-18 06:14 G 37316970.63 37316970.76 37316970.92 0.0090 0.0061

Saturn 97458-05-29 07:11 G 37317011.67 37317011.80 37317011.93 0.0282 0.0021

Neptune 97458-07-15 09:50 G 37317058.82 37317058.91 37317059.05 0.0090 0.0072

Moon 97458-07-17 22:04 G 37317061.27 37317061.42 37317061.58 0.2699 0.0633

Earth 97458-07-17 23:16 G 37317061.32 37317061.47 37317061.62 0.2693 0.0900 *

Saturn 97458-08-25 18:14 G 37317100.15 37317100.26 37317100.36 0.0281 0.0159

Neptune 97458-10-11 14:09 G 37317147.02 37317147.09 37317147.17 0.0090 0.0082

Mars 97460-02-05 11:31 G 37317628.87 37317628.98 37317629.10 0.1591 0.0352

Jupiter 97461-07-13 11:02 G 37318152.92 37318152.96 37318153.01 0.0513 0.0477

Jupiter 97461-10-10 14:52 G 37318242.00 37318242.12 37318242.24 0.0511 0.0169

Venus 97461-11-22 00:43 G 37318284.40 37318284.53 37318284.66 0.3744 0.2292

Mars 97462-01-10 12:28 G 37318333.95 37318334.02 37318334.10 0.1583 0.1236

Mars 97466-09-25 14:24 G 37320052.94 37320053.10 37320053.27 0.1952 0.0077

Jupiter 97467-12-03 04:04 G 37320486.51 37320486.67 37320486.84 0.0514 0.0245

Mars 97469-06-27 23:16 G 37321059.37 37321059.47 37321059.58 0.1593 0.0738

Uranus 97471-01-18 12:14 G 37321628.96 37321629.01 37321629.07 0.0136 0.0130

Uranus 97471-04-16 19:55 G 37321717.21 37321717.33 37321717.47 0.0136 0.0102

Mars 97471-06-03 00:14 G 37321764.41 37321764.51 37321764.61 0.1585 0.0847

Uranus 97471-07-14 03:35 G 37321805.49 37321805.65 37321805.82 0.0136 0.0074

Uranus 97471-10-10 11:31 G 37321893.79 37321893.98 37321894.16 0.0136 0.0046

Uranus 97472-01-06 18:57 G 37321982.10 37321982.29 37321982.49 0.0136 0.0019

Uranus 97472-04-04 02:38 G 37322070.42 37322070.61 37322070.81 0.0136 0.0009

Uranus 97472-07-01 10:19 G 37322158.74 37322158.93 37322159.12 0.0136 0.0037

Uranus 97472-09-27 17:45 G 37322247.07 37322247.24 37322247.42 0.0136 0.0065

Uranus 97472-12-25 01:26 G 37322335.42 37322335.56 37322335.70 0.0136 0.0092

Uranus 97473-03-23 08:38 G 37322423.78 37322423.86 37322423.96 0.0135 0.0120

Jupiter 97473-07-29 19:40 G 37322552.19 37322552.32 37322552.44 0.0512 0.0012

Saturn 97474-06-05 23:16 G 37322863.33 37322863.47 37322863.60 0.0280 0.0200

Saturn 97474-09-02 23:16 G 37322952.28 37322952.47 37322952.67 0.0281 0.0009

Saturn 97474-11-30 23:31 G 37323041.36 37323041.48 37323041.61 0.0282 0.0215

Moon 97475-01-11 00:14 G 37323082.42 37323082.51 37323082.61 0.2647 0.1408

Earth 97475-01-11 00:14 G 37323082.42 37323082.51 37323082.61 0.2641 0.1407 *

Mars 97476-02-15 05:16 G 37323482.63 37323482.72 37323482.82 0.1948 0.1572

Mars 97478-11-18 11:16 G 37324489.88 37324489.97 37324490.05 0.1596 0.1123

Jupiter 97479-09-20 23:45 G 37324796.30 37324796.49 37324796.68 0.0514 0.0009

Mars 97480-10-23 12:00 G 37325194.89 37325195.00 37325195.11 0.1586 0.0465

Jupiter 97485-05-18 00:43 G 37326862.41 37326862.53 37326862.65 0.0512 0.0143

Jupiter 97485-08-15 04:19 G 37326951.65 37326951.68 37326951.70 0.0510 0.0497

Saturn 97487-07-19 22:48 G 37327655.34 37327655.45 37327655.55 0.0283 0.0165

Saturn 97487-10-16 09:35 G 37327743.77 37327743.90 37327744.03 0.0282 0.0023

Saturn 97488-01-12 20:24 G 37327832.24 37327832.35 37327832.47 0.0281 0.0117

Earth 97488-01-13 17:31 G 37327833.12 37327833.23 37327833.34 0.2639 0.0043

Moon 97488-01-13 18:00 G 37327833.14 37327833.25 37327833.36 0.2644 0.0148 *

Mars 97488-04-09 23:02 G 37327920.42 37327920.46 37327920.49 0.1599 0.1507

Saturn 97488-04-10 07:11 G 37327920.75 37327920.80 37327920.86 0.0280 0.0255

Mars 97490-03-15 23:45 G 37328625.37 37328625.49 37328625.61 0.1588 0.0080

Jupiter 97491-07-09 18:14 G 37329106.11 37329106.26 37329106.42 0.0514 0.0281

Moon 97491-07-15 19:40 G 37329112.24 37329112.32 37329112.40 0.2695 0.2311

Earth 97491-07-15 21:21 G 37329112.28 37329112.39 37329112.49 0.2692 0.2030 *

Venus 97493-07-24 14:52 G 37329852.05 37329852.12 37329852.19 0.3633 0.2563

Mars 97496-11-04 00:00 G 37331050.40 37331050.50 37331050.60 0.1956 0.1546

Jupiter 97497-03-06 05:45 G 37331172.64 37331172.74 37331172.84 0.0512 0.0299

Jupiter 97497-06-03 09:07 G 37331261.79 37331261.88 37331261.98 0.0510 0.0343

Venus 97499-02-07 05:45 G 37331875.64 37331875.74 37331875.84 0.3631 0.0699

Mars 97499-08-06 11:31 G 37332055.87 37332055.98 37332056.10 0.1590 0.0309

Earth 97501-01-16 10:48 G 37332583.86 37332583.95 37332584.04 0.2638 0.1490

Moon 97501-01-16 11:16 G 37332583.89 37332583.97 37332584.06 0.2638 0.1550 *

Mars 97501-07-12 12:28 G 37332760.96 37332761.02 37332761.09 0.1583 0.1279

Jupiter 97503-07-28 05:45 G 37333506.69 37333506.74 37333506.80 0.0515 0.0491

Saturn 97503-10-24 22:04 G 37333595.34 37333595.42 37333595.50 0.0279 0.0252

Saturn 97504-01-21 22:04 G 37333684.24 37333684.42 37333684.61 0.0280 0.0048

Saturn 97504-04-19 22:19 G 37333773.28 37333773.43 37333773.59 0.0281 0.0160

Moon 97504-07-19 05:02 G 37333863.58 37333863.71 37333863.84 0.2700 0.1540

Earth 97504-07-19 06:00 G 37333863.63 37333863.75 37333863.88 0.2694 0.1575 *

Venus 97504-08-23 20:24 G 37333899.26 37333899.35 37333899.45 0.3629 0.1172

Mars 97506-03-27 15:07 G 37334479.97 37334480.13 37334480.30 0.1952 0.0069

Moon 97508-01-10 11:31 G 37335133.96 37335133.98 37335134.00 0.2648 0.2564

Earth 97508-01-10 12:00 G 37335133.97 37335134.00 37335134.02 0.2642 0.2546 *

Jupiter 97508-12-24 10:04 G 37335482.87 37335482.92 37335482.97 0.0513 0.0468

Mars 97508-12-27 23:16 G 37335486.37 37335486.47 37335486.58 0.1593 0.0697

Jupiter 97509-03-23 13:40 G 37335571.95 37335572.07 37335572.19 0.0511 0.0176

Venus 97510-03-09 11:16 G 37335922.92 37335922.97 37335923.03 0.3627 0.3013

Mars 97510-12-03 00:14 G 37336191.41 37336191.51 37336191.61 0.1584 0.0893

Uranus 97514-01-15 01:40 G 37337330.52 37337330.57 37337330.64 0.0142 0.0125

Uranus 97514-04-13 05:02 G 37337418.63 37337418.71 37337418.81 0.0142 0.0104

Uranus 97514-07-10 08:38 G 37337506.75 37337506.86 37337506.97 0.0142 0.0083

Uranus 97514-10-06 12:00 G 37337594.88 37337595.00 37337595.12 0.0142 0.0062

Uranus 97515-01-02 15:21 G 37337683.02 37337683.14 37337683.27 0.0142 0.0041

Uranus 97515-03-31 18:57 G 37337771.16 37337771.29 37337771.42 0.0142 0.0019

Jupiter 97515-05-16 01:55 G 37337816.42 37337816.58 37337816.75 0.0514 0.0248

Uranus 97515-06-27 22:19 G 37337859.30 37337859.43 37337859.56 0.0142 0.0003

Mars 97515-08-17 06:43 G 37337909.67 37337909.78 37337909.89 0.1948 0.1446

Uranus 97515-09-24 01:40 G 37337947.44 37337947.57 37337947.70 0.0143 0.0024

Uranus 97515-12-21 05:16 G 37338035.59 37338035.72 37338035.84 0.0143 0.0045

Uranus 97516-03-18 08:38 G 37338123.75 37338123.86 37338123.98 0.0143 0.0067

Uranus 97516-06-14 12:00 G 37338211.90 37338212.00 37338212.11 0.0143 0.0089

Uranus 97516-09-10 15:35 G 37338300.07 37338300.15 37338300.23 0.0143 0.0110

Saturn 97516-12-07 00:43 G 37338387.45 37338387.53 37338387.62 0.0284 0.0211

Uranus 97516-12-07 18:57 G 37338388.25 37338388.29 37338388.34 0.0143 0.0132

Saturn 97517-03-05 11:45 G 37338475.87 37338475.99 37338476.12 0.0283 0.0068

Saturn 97517-06-01 22:48 G 37338564.32 37338564.45 37338564.57 0.0282 0.0073

Saturn 97517-08-29 09:35 G 37338652.82 37338652.90 37338652.99 0.0280 0.0212

Mars 97518-05-20 11:02 G 37338916.88 37338916.96 37338917.05 0.1596 0.1084

Mars 97520-04-24 12:00 G 37339621.89 37339622.00 37339622.11 0.1586 0.0504

Jupiter 97521-01-09 18:14 G 37339882.14 37339882.26 37339882.39 0.0512 0.0018

Earth 97521-01-12 05:02 G 37339884.61 37339884.71 37339884.81 0.2640 0.1113

Moon 97521-01-12 05:16 G 37339884.62 37339884.72 37339884.82 0.2646 0.1116 *

Jupiter 97527-03-03 21:35 G 37342126.21 37342126.40 37342126.59 0.0514 0.0009

Mars 97527-10-10 22:48 G 37342347.41 37342347.45 37342347.50 0.1599 0.1471

Mars 97529-09-14 23:45 G 37343052.37 37343052.49 37343052.61 0.1588 0.0119

Jupiter 97532-10-28 23:02 G 37344192.34 37344192.46 37344192.58 0.0512 0.0148

Jupiter 97533-01-26 02:24 G 37344281.58 37344281.60 37344281.64 0.0510 0.0494

Saturn 97533-06-09 20:52 G 37344416.20 37344416.37 37344416.55 0.0280 0.0104

Saturn 97533-09-06 21:07 G 37344505.21 37344505.38 37344505.56 0.0281 0.0104

Earth 97534-01-14 22:19 G 37344635.32 37344635.43 37344635.53 0.2639 0.0340

Moon 97534-01-14 22:48 G 37344635.34 37344635.45 37344635.56 0.2644 0.0411 *

Neptune 97535-09-19 22:33 G 37345248.44 37345248.44 37345248.45 0.0088 0.0088

Neptune 97535-12-16 23:45 G 37345336.45 37345336.49 37345336.55 0.0088 0.0081

Neptune 97536-03-14 00:57 G 37345424.48 37345424.54 37345424.62 0.0088 0.0074

Mars 97536-05-06 00:28 G 37345477.43 37345477.52 37345477.61 0.1956 0.1625

Neptune 97536-06-10 02:24 G 37345512.52 37345512.60 37345512.68 0.0088 0.0067

Neptune 97536-09-06 03:35 G 37345600.56 37345600.65 37345600.75 0.0088 0.0060

Neptune 97536-12-03 04:48 G 37345688.60 37345688.70 37345688.81 0.0088 0.0053

Neptune 97537-03-01 06:00 G 37345776.64 37345776.75 37345776.87 0.0088 0.0046

Neptune 97537-05-28 07:11 G 37345864.69 37345864.80 37345864.92 0.0088 0.0040

Moon 97537-07-17 02:38 G 37345914.49 37345914.61 37345914.74 0.2697 0.1566

Earth 97537-07-17 04:19 G 37345914.54 37345914.68 37345914.81 0.2692 0.1348 *

Neptune 97537-08-24 08:24 G 37345952.74 37345952.85 37345952.98 0.0088 0.0033

Neptune 97537-11-20 09:50 G 37346040.78 37346040.91 37346041.04 0.0088 0.0025

Neptune 97538-02-16 11:02 G 37346128.83 37346128.96 37346129.09 0.0088 0.0019

Neptune 97538-05-15 12:14 G 37346216.88 37346217.01 37346217.14 0.0088 0.0012

Neptune 97538-08-11 13:40 G 37346304.93 37346305.07 37346305.20 0.0088 0.0005

Neptune 97538-11-07 14:52 G 37346392.99 37346393.12 37346393.25 0.0088 0.0003

Jupiter 97538-12-20 17:02 G 37346436.05 37346436.21 37346436.37 0.0513 0.0265

Neptune 97539-02-03 16:04 G 37346481.04 37346481.17 37346481.30 0.0088 0.0009

Mars 97539-02-05 11:31 G 37346482.86 37346482.98 37346483.09 0.1591 0.0268

Neptune 97539-05-02 17:16 G 37346569.09 37346569.22 37346569.35 0.0088 0.0016

Neptune 97539-07-29 18:28 G 37346657.15 37346657.27 37346657.40 0.0088 0.0023

Neptune 97539-10-25 19:55 G 37346745.20 37346745.33 37346745.45 0.0088 0.0030

Neptune 97540-01-21 21:07 G 37346833.26 37346833.38 37346833.50 0.0088 0.0037

Neptune 97540-04-18 22:19 G 37346921.32 37346921.43 37346921.54 0.0088 0.0044

Neptune 97540-07-15 23:31 G 37347009.38 37347009.48 37347009.59 0.0088 0.0051

Neptune 97540-10-12 00:43 G 37347097.44 37347097.53 37347097.63 0.0088 0.0058

Neptune 97541-01-08 01:55 G 37347185.50 37347185.58 37347185.68 0.0088 0.0065

Mars 97541-01-10 12:28 G 37347187.96 37347188.02 37347188.09 0.1583 0.1321

Neptune 97541-04-06 03:07 G 37347273.57 37347273.63 37347273.72 0.0088 0.0072

Neptune 97541-07-03 04:33 G 37347361.64 37347361.69 37347361.75 0.0088 0.0079

Neptune 97541-09-29 05:45 G 37347449.72 37347449.74 37347449.77 0.0088 0.0086

Jupiter 97544-08-17 04:04 G 37348502.57 37348502.67 37348502.77 0.0513 0.0302

Jupiter 97544-11-14 07:40 G 37348591.73 37348591.82 37348591.91 0.0511 0.0340

Mars 97545-09-25 16:19 G 37348907.01 37348907.18 37348907.34 0.1953 0.0163

Saturn 97546-04-26 03:35 G 37349119.59 37349119.65 37349119.72 0.0284 0.0248

Saturn 97546-07-23 14:38 G 37349207.99 37349208.11 37349208.23 0.0283 0.0105

Saturn 97546-10-20 01:40 G 37349296.44 37349296.57 37349296.70 0.0282 0.0037

Saturn 97547-01-16 12:28 G 37349384.92 37349385.02 37349385.12 0.0281 0.0176

Earth 97547-01-17 15:35 G 37349386.07 37349386.15 37349386.22 0.2638 0.1786

Moon 97547-01-17 16:04 G 37349386.10 37349386.17 37349386.25 0.2636 0.1913 *

Mars 97548-06-27 23:16 G 37349913.37 37349913.47 37349913.58 0.1593 0.0655

Venus 97550-03-01 12:00 G 37350524.92 37350525.00 37350525.09 0.3632 0.1903

Mars 97550-06-03 00:14 G 37350618.41 37350618.51 37350618.60 0.1584 0.0934

Moon 97550-07-20 12:14 G 37350665.91 37350666.01 37350666.11 0.2700 0.2053

Earth 97550-07-20 12:57 G 37350665.95 37350666.04 37350666.13 0.2694 0.2239 *

Jupiter 97551-01-07 02:38 G 37350836.54 37350836.61 37350836.68 0.0515 0.0476

Moon 97554-01-10 16:19 G 37351936.14 37351936.18 37351936.23 0.2647 0.2369

Earth 97554-01-10 16:48 G 37351936.14 37351936.20 37351936.25 0.2642 0.2258 *

Uranus 97555-02-08 20:38 G 37352330.27 37352330.36 37352330.45 0.0136 0.0119

Mars 97555-02-15 07:40 G 37352336.70 37352336.82 37352336.94 0.1948 0.1340

Uranus 97555-05-08 03:50 G 37352418.53 37352418.66 37352418.82 0.0136 0.0092

Uranus 97555-08-04 11:45 G 37352506.82 37352506.99 37352507.17 0.0136 0.0064

Venus 97555-09-15 02:52 G 37352548.52 37352548.62 37352548.72 0.3631 0.0068

Uranus 97555-10-31 19:26 G 37352595.13 37352595.31 37352595.50 0.0136 0.0036

Uranus 97556-01-28 03:07 G 37352683.44 37352683.63 37352683.83 0.0136 0.0008

Uranus 97556-04-25 10:48 G 37352771.76 37352771.95 37352772.14 0.0136 0.0020

Jupiter 97556-06-05 08:52 G 37352812.82 37352812.87 37352812.93 0.0513 0.0460

Uranus 97556-07-22 18:14 G 37352860.08 37352860.26 37352860.45 0.0136 0.0047

Jupiter 97556-09-02 12:28 G 37352901.91 37352902.02 37352902.14 0.0511 0.0185

Uranus 97556-10-19 01:40 G 37352948.42 37352948.57 37352948.74 0.0136 0.0075

Uranus 97557-01-15 09:07 G 37353036.77 37353036.88 37353037.02 0.0136 0.0103

Uranus 97557-04-13 16:33 G 37353125.16 37353125.19 37353125.27 0.0135 0.0130

Mars 97557-11-18 11:02 G 37353343.88 37353343.96 37353344.05 0.1595 0.1042

Mars 97559-10-24 12:00 G 37354048.89 37354049.00 37354049.11 0.1586 0.0550

Venus 97561-03-30 17:45 G 37354572.15 37354572.24 37354572.33 0.3629 0.1819

Jupiter 97562-10-25 22:33 G 37355146.28 37355146.44 37355146.61 0.0515 0.0228

Saturn 97562-10-27 20:24 G 37355148.20 37355148.35 37355148.52 0.0279 0.0151

Pluto 97562-11-05 18:57 G 37355157.20 37355157.29 37355157.40 0.0061 0.0051

Saturn 97563-01-24 20:52 G 37355237.18 37355237.37 37355237.56 0.0280 0.0056

Pluto 97563-02-01 20:09 G 37355245.22 37355245.34 37355245.49 0.0061 0.0041

Saturn 97563-04-23 21:07 G 37355326.32 37355326.38 37355326.44 0.0282 0.0265

Pluto 97563-04-30 21:21 G 37355333.24 37355333.39 37355333.57 0.0061 0.0031

Pluto 97563-07-27 22:48 G 37355421.28 37355421.45 37355421.63 0.0061 0.0020

Pluto 97563-10-24 00:00 G 37355509.32 37355509.50 37355509.69 0.0061 0.0010

Pluto 97564-01-20 01:26 G 37355597.37 37355597.56 37355597.75 0.0061 0.0001

Pluto 97564-04-17 02:38 G 37355685.43 37355685.61 37355685.80 0.0061 0.0011

Pluto 97564-07-14 03:50 G 37355773.49 37355773.66 37355773.84 0.0061 0.0022

Pluto 97564-10-10 04:48 G 37355861.56 37355861.70 37355861.88 0.0061 0.0032

Pluto 97565-01-06 06:14 G 37355949.63 37355949.76 37355949.90 0.0061 0.0043

Pluto 97565-04-04 07:11 G 37356037.73 37356037.80 37356037.91 0.0061 0.0053

Earth 97567-01-13 09:50 G 37356686.80 37356686.91 37356687.01 0.2640 0.0822

Moon 97567-01-13 10:04 G 37356686.82 37356686.92 37356687.02 0.2646 0.0726 *

Mars 97567-04-10 22:48 G 37356774.40 37356774.45 37356774.50 0.1598 0.1432

Jupiter 97568-06-21 16:48 G 37357212.08 37357212.20 37357212.33 0.0512 0.0024

Mars 97569-03-15 23:45 G 37357479.37 37357479.49 37357479.60 0.1588 0.0163

Venus 97569-07-20 17:16 G 37357606.06 37357606.22 37357606.38 0.3743 0.1025

Jupiter 97574-08-13 18:57 G 37359456.10 37359456.29 37359456.48 0.0514 0.0017

Mars 97575-11-05 01:26 G 37359904.49 37359904.56 37359904.64 0.1956 0.1748

Saturn 97575-12-10 17:16 G 37359940.11 37359940.22 37359940.33 0.0284 0.0145

Saturn 97576-03-08 04:19 G 37360028.55 37360028.68 37360028.81 0.0282 0.0003

Saturn 97576-06-04 15:07 G 37360117.02 37360117.13 37360117.25 0.0281 0.0137

Saturn 97576-09-01 01:55 G 37360205.56 37360205.58 37360205.61 0.0280 0.0275

Mars 97578-08-06 11:31 G 37360909.86 37360909.98 37360910.09 0.1590 0.0230

Earth 97580-01-16 02:52 G 37361437.52 37361437.62 37361437.73 0.2639 0.0632

Moon 97580-01-16 03:35 G 37361437.54 37361437.65 37361437.75 0.2642 0.0704 *

Jupiter 97580-04-09 21:21 G 37361522.27 37361522.39 37361522.52 0.0512 0.0151

Jupiter 97580-07-08 00:57 G 37361611.51 37361611.54 37361611.57 0.0510 0.0490

Mars 97580-07-11 12:28 G 37361614.96 37361615.02 37361615.08 0.1583 0.1363

Moon 97583-07-18 09:35 G 37362716.75 37362716.90 37362717.05 0.2697 0.0868

Earth 97583-07-18 11:02 G 37362716.80 37362716.96 37362717.11 0.2692 0.0681 *

Mars 97585-03-26 17:02 G 37363334.05 37363334.21 37363334.38 0.1952 0.0258

Jupiter 97586-06-01 14:24 G 37363765.95 37363766.10 37363766.26 0.0513 0.0272

Mars 97587-12-27 23:16 G 37364340.36 37364340.47 37364340.58 0.1593 0.0614

Mars 97589-12-02 00:14 G 37365045.42 37365045.51 37365045.60 0.1584 0.0976

Jupiter 97592-01-28 02:09 G 37365832.49 37365832.59 37365832.69 0.0513 0.0314

Saturn 97592-03-15 20:09 G 37365880.21 37365880.34 37365880.48 0.0279 0.0200

Jupiter 97592-04-26 05:45 G 37365921.64 37365921.74 37365921.83 0.0511 0.0330

Saturn 97592-06-12 20:24 G 37365969.16 37365969.35 37365969.55 0.0281 0.0009

Saturn 97592-09-09 20:38 G 37366058.24 37366058.36 37366058.49 0.0282 0.0215

Earth 97593-01-17 20:09 G 37366188.28 37366188.34 37366188.41 0.2638 0.2081

Moon 97593-01-17 20:52 G 37366188.31 37366188.37 37366188.43 0.2635 0.2166 *

Mars 97594-08-16 08:09 G 37366763.72 37366763.84 37366763.97 0.1948 0.1252

Mars 97597-05-19 11:02 G 37367770.87 37367770.96 37367771.05 0.1596 0.1002

Uranus 97597-11-08 05:31 G 37367943.72 37367943.73 37367943.76 0.0142 0.0140

Uranus 97598-02-04 09:07 G 37368031.82 37368031.88 37368031.96 0.0142 0.0119

Uranus 97598-05-03 12:43 G 37368119.93 37368120.03 37368120.12 0.0142 0.0098

Jupiter 97598-06-19 00:57 G 37368166.48 37368166.54 37368166.61 0.0515 0.0484

Uranus 97598-07-30 16:04 G 37368208.06 37368208.17 37368208.28 0.0142 0.0077

Uranus 97598-10-26 19:26 G 37368296.19 37368296.31 37368296.43 0.0142 0.0055

Uranus 97599-01-22 22:48 G 37368384.33 37368384.45 37368384.58 0.0142 0.0035

Uranus 97599-04-21 02:24 G 37368472.47 37368472.60 37368472.73 0.0142 0.0013

Mars 97599-04-24 12:00 G 37368475.89 37368476.00 37368476.11 0.1586 0.0590

Uranus 97599-07-18 05:45 G 37368560.61 37368560.74 37368560.87 0.0142 0.0009

Uranus 97599-10-14 09:07 G 37368648.76 37368648.88 37368649.01 0.0143 0.0031

Uranus 97600-01-10 12:43 G 37368736.91 37368737.03 37368737.15 0.0143 0.0052

Moon 97600-01-11 21:07 G 37368738.31 37368738.38 37368738.46 0.2647 0.1949

Earth 97600-01-11 21:21 G 37368738.32 37368738.39 37368738.46 0.2641 0.1969 *

Uranus 97600-04-07 16:04 G 37368825.06 37368825.17 37368825.29 0.0143 0.0073

Uranus 97600-07-04 19:40 G 37368913.22 37368913.32 37368913.42 0.0143 0.0095

Uranus 97600-09-30 23:02 G 37369001.39 37369001.46 37369001.54 0.0143 0.0117

Uranus 97600-12-28 02:38 G 37369089.58 37369089.61 37369089.64 0.0143 0.0138

Venus 97601-03-22 18:28 G 37369174.22 37369174.27 37369174.32 0.3634 0.3100

Jupiter 97603-11-16 07:11 G 37370142.75 37370142.80 37370142.85 0.0513 0.0469

Jupiter 97604-02-13 10:48 G 37370231.83 37370231.95 37370232.07 0.0511 0.0176

Saturn 97605-04-28 20:24 G 37370672.25 37370672.35 37370672.45 0.0284 0.0178

Saturn 97605-07-26 07:26 G 37370760.68 37370760.81 37370760.94 0.0282 0.0036

Saturn 97605-10-22 18:14 G 37370849.14 37370849.26 37370849.38 0.0281 0.0104

Saturn 97606-01-19 05:02 G 37370937.65 37370937.71 37370937.78 0.0280 0.0243

Venus 97606-10-06 09:21 G 37371197.80 37371197.89 37371197.98 0.3632 0.1240

Mars 97606-10-09 22:48 G 37371201.40 37371201.45 37371201.51 0.1598 0.1389

Mars 97608-09-13 23:45 G 37371906.37 37371906.49 37371906.60 0.1588 0.0205

Jupiter 97610-04-06 19:11 G 37372476.13 37372476.30 37372476.48 0.0514 0.0208

Venus 97612-04-21 00:14 G 37373221.41 37373221.51 37373221.61 0.3630 0.0625

Earth 97613-01-13 14:38 G 37373489.00 37373489.11 37373489.21 0.2640 0.0539

Moon 97613-01-13 14:52 G 37373489.02 37373489.12 37373489.23 0.2646 0.0532 *

Mars 97615-05-06 02:38 G 37374331.56 37374331.61 37374331.66 0.1956 0.1859

Jupiter 97615-12-02 15:35 G 37374542.03 37374542.15 37374542.28 0.0512 0.0020

Venus 97617-11-04 14:52 G 37375245.05 37375245.12 37375245.20 0.3628 0.2475

Mars 97618-02-04 11:31 G 37375336.86 37375336.98 37375337.09 0.1590 0.0186

Neptune 97619-11-25 01:55 G 37375995.53 37375995.58 37375995.69 0.0090 0.0082

Mars 97620-01-10 12:28 G 37376041.97 37376042.02 37376042.07 0.1583 0.1408

Neptune 97620-02-21 05:45 G 37376083.64 37376083.74 37376083.89 0.0090 0.0071

Neptune 97620-05-19 10:04 G 37376171.78 37376171.92 37376172.07 0.0090 0.0059

Neptune 97620-08-15 13:55 G 37376259.92 37376260.08 37376260.25 0.0090 0.0048

Neptune 97620-11-11 17:45 G 37376348.06 37376348.24 37376348.42 0.0090 0.0037

Neptune 97621-02-07 21:35 G 37376436.21 37376436.40 37376436.59 0.0090 0.0026

Neptune 97621-05-07 01:26 G 37376524.37 37376524.56 37376524.75 0.0090 0.0015

Saturn 97621-08-02 20:09 G 37376612.26 37376612.34 37376612.44 0.0279 0.0243

Neptune 97621-08-03 05:16 G 37376612.52 37376612.72 37376612.91 0.0090 0.0004

Neptune 97621-10-30 08:52 G 37376700.68 37376700.87 37376701.07 0.0090 0.0008

Saturn 97621-10-30 20:38 G 37376701.17 37376701.36 37376701.55 0.0280 0.0037

Jupiter 97622-01-23 15:07 G 37376785.95 37376786.13 37376786.32 0.0514 0.0044

Neptune 97622-01-26 12:43 G 37376788.84 37376789.03 37376789.23 0.0090 0.0018

Saturn 97622-01-27 20:38 G 37376790.22 37376790.36 37376790.52 0.0281 0.0171

Neptune 97622-04-24 16:19 G 37376877.01 37376877.18 37376877.38 0.0090 0.0030

Neptune 97622-07-21 20:09 G 37376965.17 37376965.34 37376965.52 0.0090 0.0040

Neptune 97622-10-17 23:45 G 37377053.35 37377053.49 37377053.67 0.0090 0.0052

Neptune 97623-01-14 03:35 G 37377141.52 37377141.65 37377141.80 0.0090 0.0063

Neptune 97623-04-12 07:11 G 37377229.71 37377229.80 37377229.93 0.0090 0.0074

Neptune 97623-07-09 11:31 G 37377317.91 37377317.98 37377318.04 0.0090 0.0084

Mars 97624-09-24 18:00 G 37377761.09 37377761.25 37377761.41 0.1953 0.0367

Earth 97626-01-16 07:40 G 37378239.72 37378239.82 37378239.92 0.2639 0.0921

Moon 97626-01-16 08:24 G 37378239.75 37378239.85 37378239.95 0.2640 0.1066 *

Venus 97626-02-24 20:52 G 37378279.23 37378279.37 37378279.52 0.3744 0.1762

Mars 97627-06-27 23:16 G 37378767.36 37378767.47 37378767.58 0.1593 0.0574

Jupiter 97627-09-20 19:55 G 37378852.21 37378852.33 37378852.45 0.0512 0.0153

Jupiter 97627-12-18 23:31 G 37378941.44 37378941.48 37378941.51 0.0510 0.0487

Mars 97629-06-02 00:14 G 37379472.42 37379472.51 37379472.60 0.1584 0.1021

Moon 97629-07-18 16:33 G 37379519.03 37379519.19 37379519.35 0.2697 0.0242

Earth 97629-07-18 18:00 G 37379519.09 37379519.25 37379519.41 0.2693 0.0036 *

Jupiter 97633-11-11 11:16 G 37381095.82 37381095.97 37381096.13 0.0513 0.0287

Mars 97634-02-14 09:21 G 37381190.76 37381190.89 37381191.03 0.1949 0.1133

Saturn 97634-09-15 23:31 G 37381404.40 37381404.48 37381404.56 0.0284 0.0213

Saturn 97634-12-13 10:33 G 37381492.81 37381492.94 37381493.06 0.0283 0.0071

Saturn 97635-03-11 21:21 G 37381581.27 37381581.39 37381581.52 0.0282 0.0070

Saturn 97635-06-08 08:09 G 37381669.76 37381669.84 37381669.93 0.0281 0.0209

Mars 97636-11-17 11:02 G 37382197.87 37382197.96 37382198.05 0.1595 0.0963

Mars 97638-10-23 12:00 G 37382902.89 37382903.00 37382903.10 0.1586 0.0632

Earth 97639-01-19 00:57 G 37382990.50 37382990.54 37382990.59 0.2638 0.2378

Moon 97639-01-19 01:40 G 37382990.53 37382990.57 37382990.60 0.2635 0.2473 *

Uranus 97639-03-01 04:33 G 37383031.59 37383031.69 37383031.82 0.0136 0.0109

Uranus 97639-05-28 12:14 G 37383119.86 37383120.01 37383120.18 0.0136 0.0081

Jupiter 97639-07-10 00:28 G 37383162.42 37383162.52 37383162.62 0.0513 0.0319

Uranus 97639-08-24 19:55 G 37383208.16 37383208.33 37383208.52 0.0136 0.0053

Jupiter 97639-10-07 04:04 G 37383251.57 37383251.67 37383251.76 0.0511 0.0324

Uranus 97639-11-21 03:50 G 37383296.47 37383296.66 37383296.85 0.0136 0.0025

Uranus 97640-02-17 11:16 G 37383384.78 37383384.97 37383385.17 0.0136 0.0004

Uranus 97640-05-15 18:43 G 37383473.10 37383473.28 37383473.48 0.0136 0.0031

Uranus 97640-08-12 02:24 G 37383561.43 37383561.60 37383561.78 0.0136 0.0058

Uranus 97640-11-08 09:50 G 37383649.77 37383649.91 37383650.07 0.0136 0.0086

Uranus 97641-02-04 17:31 G 37383738.13 37383738.23 37383738.34 0.0136 0.0113

Jupiter 97645-11-28 22:04 G 37385496.35 37385496.42 37385496.50 0.0515 0.0472

Moon 97646-01-12 02:09 G 37385540.51 37385540.59 37385540.67 0.2648 0.1731

Earth	97646-01-12 02:09 G	37385540.51	37385540.59	37385540.67	0.2641	0.1676 *
Mars	97646-04-09 22:48 G	37385628.39	37385628.45	37385628.51	0.1598	0.1352
Mars	97648-03-14 23:31 G	37386333.37	37386333.48	37386333.60	0.1588	0.0252
Saturn	97651-03-19 20:24 G	37387433.17	37387433.35	37387433.54	0.0280	0.0084
Jupiter	97651-04-28 04:48 G	37387472.67	37387472.70	37387472.74	0.0513	0.0486
Saturn	97651-06-16 20:38 G	37387522.20	37387522.36	37387522.54	0.0281	0.0125
Jupiter	97651-07-26 08:38 G	37387561.74	37387561.86	37387561.98	0.0511	0.0160
Mars	97654-11-04 03:07 G	37388758.62	37388758.63	37388758.64	0.1956	0.1949
Pluto	97656-05-24 20:52 G	37389326.34	37389326.37	37389326.43	0.0084	0.0078
Pluto	97656-08-20 22:19 G	37389414.34	37389414.43	37389414.53	0.0084	0.0058
Pluto	97656-11-16 23:31 G	37389502.37	37389502.48	37389502.61	0.0083	0.0039
Pluto	97657-02-13 00:57 G	37389590.41	37389590.54	37389590.67	0.0083	0.0019
Pluto	97657-05-12 02:09 G	37389678.46	37389678.59	37389678.73	0.0083	0.0002
Mars	97657-08-05 11:31 G	37389763.86	37389763.98	37389764.09	0.1590	0.0155
Pluto	97657-08-08 03:21 G	37389766.51	37389766.64	37389766.78	0.0083	0.0020
Jupiter	97657-09-16 17:16 G	37389806.05	37389806.22	37389806.39	0.0514	0.0211
Venus	97657-10-27 15:50 G	37389847.08	37389847.16	37389847.23	0.3633	0.2442
Pluto	97657-11-04 04:33 G	37389854.58	37389854.69	37389854.82	0.0083	0.0040
Pluto	97658-01-31 05:45 G	37389942.65	37389942.74	37389942.84	0.0083	0.0059
Pluto	97658-04-29 06:57 G	37390030.76	37390030.79	37390030.84	0.0083	0.0078
Earth	97659-01-14 19:11 G	37390291.19	37390291.30	37390291.41	0.2640	0.0249
Moon	97659-01-14 19:40 G	37390291.21	37390291.32	37390291.43	0.2645	0.0114 *
Mars	97659-07-11 12:28 G	37390468.98	37390469.02	37390469.06	0.1583	0.1451
Venus	97663-05-13 06:43 G	37391870.68	37391870.78	37391870.87	0.3631	0.0603
Jupiter	97663-05-14 13:40 G	37391871.94	37391872.07	37391872.19	0.0512	0.0019
Saturn	97664-02-03 02:52 G	37392136.56	37392136.62	37392136.69	0.0284	0.0243
Mars	97664-03-25 18:57 G	37392188.12	37392188.29	37392188.45	0.1953	0.0476
Saturn	97664-05-01 13:55 G	37392224.96	37392225.08	37392225.20	0.0283	0.0100
Saturn	97664-07-29 00:43 G	37392313.41	37392313.53	37392313.66	0.0282	0.0041
Saturn	97664-10-25 11:31 G	37392401.89	37392401.98	37392402.08	0.0280	0.0180

Mars	97666-12-26 23:16 G	37393194.36	37393194.47	37393194.58	0.1593	0.0532
Venus	97668-11-25 21:21 G	37393894.30	37393894.39	37393894.49	0.3629	0.1283
Mars	97668-12-01 00:14 G	37393899.42	37393899.51	37393899.59	0.1584	0.1064
Jupiter	97669-07-05 11:31 G	37394115.80	37394115.98	37394116.17	0.0514	0.0065
Earth	97672-01-17 12:28 G	37395041.93	37395042.02	37395042.12	0.2639	0.1215
Moon	97672-01-17 13:11 G	37395041.96	37395042.05	37395042.15	0.2639	0.1269 *
Mars	97673-08-15 10:19 G	37395617.79	37395617.93	37395618.08	0.1949	0.1023
Venus	97674-06-11 12:14 G	37395917.96	37395918.01	37395918.06	0.3628	0.3123
Jupiter	97675-03-02 18:28 G	37396182.15	37396182.27	37396182.39	0.0512	0.0154
Jupiter	97675-05-30 22:04 G	37396271.38	37396271.42	37396271.45	0.0510	0.0488
Moon	97675-07-19 23:45 G	37396321.34	37396321.49	37396321.65	0.2698	0.0606
Earth	97675-07-20 00:57 G	37396321.38	37396321.54	37396321.69	0.2693	0.0686 *
Mars	97676-05-18 11:02 G	37396624.86	37396624.96	37396625.05	0.1595	0.0921
Mars	97678-04-23 12:00 G	37397329.89	37397330.00	37397330.10	0.1586	0.0677
Saturn	97680-08-05 20:52 G	37398165.20	37398165.37	37398165.55	0.0279	0.0124
Saturn	97680-11-02 21:21 G	37398254.20	37398254.39	37398254.57	0.0281	0.0084
Jupiter	97681-04-23 07:11 G	37398425.66	37398425.80	37398425.95	0.0513	0.0317
Uranus	97681-11-28 12:57 G	37398645.01	37398645.04	37398645.08	0.0142	0.0135
Uranus	97682-02-24 16:19 G	37398733.11	37398733.18	37398733.26	0.0142	0.0114
Uranus	97682-05-23 19:40 G	37398821.23	37398821.32	37398821.42	0.0142	0.0093
Uranus	97682-08-19 23:02 G	37398909.36	37398909.46	37398909.58	0.0142	0.0073
Uranus	97682-11-16 02:38 G	37398997.49	37398997.61	37398997.73	0.0142	0.0051
Uranus	97683-02-12 06:00 G	37399085.63	37399085.75	37399085.88	0.0142	0.0030
Uranus	97683-05-11 09:35 G	37399173.77	37399173.90	37399174.03	0.0142	0.0008
Uranus	97683-08-07 12:57 G	37399261.91	37399262.04	37399262.17	0.0142	0.0013
Uranus	97683-11-03 16:19 G	37399350.06	37399350.18	37399350.31	0.0142	0.0035
Uranus	97684-01-30 19:40 G	37399438.21	37399438.32	37399438.45	0.0143	0.0057
Uranus	97684-04-27 23:16 G	37399526.36	37399526.47	37399526.58	0.0143	0.0078
Uranus	97684-07-25 02:38 G	37399614.52	37399614.61	37399614.71	0.0143	0.0100
Uranus	97684-10-21 06:14 G	37399702.69	37399702.76	37399702.83	0.0143	0.0121

Uranus 97685-01-17 09:35 G 37399790.90 37399790.90 37399790.91 0.0143 0.0143

Mars 97685-10-08 22:48 G 37400055.38 37400055.45 37400055.51 0.1598 0.1313

Jupiter 97686-12-19 22:33 G 37400492.35 37400492.44 37400492.54 0.0513 0.0326

Jupiter 97687-03-19 02:09 G 37400581.49 37400581.59 37400581.69 0.0511 0.0317

Mars 97687-09-13 23:31 G 37400760.37 37400760.48 37400760.60 0.1588 0.0291

Earth 97692-01-13 06:57 G 37402342.69 37402342.79 37402342.88 0.2641 0.1388

Moon 97692-01-13 06:57 G 37402342.70 37402342.79 37402342.88 0.2648 0.1329 *

Jupiter 97693-05-10 18:43 G 37402826.20 37402826.28 37402826.37 0.0515 0.0455

Saturn 97693-06-22 06:14 G 37402868.73 37402868.76 37402868.79 0.0285 0.0276

Saturn 97693-09-18 17:16 G 37402957.10 37402957.22 37402957.33 0.0283 0.0133

Saturn 97693-12-16 04:04 G 37403045.54 37403045.67 37403045.80 0.0282 0.0012

Saturn 97694-03-14 14:52 G 37403134.02 37403134.12 37403134.24 0.0281 0.0149

Mars 97697-02-03 11:16 G 37404190.86 37404190.97 37404191.09 0.1590 0.0113

Jupiter 97698-10-08 03:07 G 37404802.60 37404802.63 37404802.66 0.0513 0.0491

Jupiter 97699-01-05 06:43 G 37404891.66 37404891.78 37404891.90 0.0511 0.0153

Mars 97699-01-09 12:28 G 37404895.98 37404896.02 37404896.05 0.1583 0.1494

Neptune 97700-06-16 21:50 G 37405419.40 37405419.41 37405419.44 0.0088 0.0086

Neptune 97700-09-12 23:16 G 37405507.42 37405507.47 37405507.52 0.0088 0.0079

Neptune 97700-12-10 00:28 G 37405595.45 37405595.52 37405595.59 0.0088 0.0072

Neptune 97701-03-08 01:26 G 37405683.49 37405683.56 37405683.66 0.0088 0.0066

Neptune 97701-06-04 02:38 G 37405771.53 37405771.61 37405771.72 0.0088 0.0059

Neptune 97701-08-31 04:04 G 37405859.57 37405859.67 37405859.78 0.0088 0.0052

Neptune 97701-11-27 05:16 G 37405947.62 37405947.72 37405947.84 0.0088 0.0045

Neptune 97702-02-23 06:43 G 37406035.66 37406035.78 37406035.90 0.0088 0.0038

Neptune 97702-05-22 07:55 G 37406123.71 37406123.83 37406123.96 0.0088 0.0031

Neptune 97702-08-18 09:07 G 37406211.76 37406211.88 37406212.01 0.0088 0.0024

Neptune 97702-11-14 10:33 G 37406299.81 37406299.94 37406300.07 0.0088 0.0017

Neptune 97703-02-10 11:45 G 37406387.86 37406387.99 37406388.12 0.0088 0.0010

Neptune 97703-05-09 12:57 G 37406475.91 37406476.04 37406476.17 0.0088 0.0003

Neptune 97703-08-05 14:09 G 37406563.96 37406564.09 37406564.22 0.0088 0.0004

Mars 97703-09-25 19:55 G 37406615.17 37406615.33 37406615.48 0.1953 0.0584

Neptune 97703-11-01 15:21 G 37406652.01 37406652.14 37406652.27 0.0088 0.0011

Neptune 97704-01-28 16:48 G 37406740.07 37406740.20 37406740.33 0.0088 0.0018

Neptune 97704-04-25 18:00 G 37406828.12 37406828.25 37406828.37 0.0088 0.0025

Neptune 97704-07-22 19:11 G 37406916.18 37406916.30 37406916.42 0.0088 0.0032

Neptune 97704-10-18 20:24 G 37407004.23 37407004.35 37407004.47 0.0088 0.0039

Neptune 97705-01-14 21:35 G 37407092.29 37407092.40 37407092.52 0.0088 0.0046

Earth 97705-01-16 00:00 G 37407093.39 37407093.50 37407093.61 0.2640 0.0075

Moon 97705-01-16 00:28 G 37407093.42 37407093.52 37407093.63 0.2644 0.0118 *

Jupiter 97705-02-27 14:24 G 37407135.93 37407136.10 37407136.27 0.0514 0.0198

Neptune 97705-04-12 22:48 G 37407180.35 37407180.45 37407180.56 0.0088 0.0053

Neptune 97705-07-10 00:00 G 37407268.41 37407268.50 37407268.61 0.0088 0.0060

Neptune 97705-10-06 01:11 G 37407356.48 37407356.55 37407356.65 0.0088 0.0067

Neptune 97706-01-02 02:24 G 37407444.55 37407444.60 37407444.69 0.0088 0.0074

Neptune 97706-03-31 03:50 G 37407532.62 37407532.66 37407532.72 0.0088 0.0081

Neptune 97706-06-27 05:02 G 37407620.71 37407620.71 37407620.73 0.0088 0.0088

Mars 97706-06-27 23:16 G 37407621.36 37407621.47 37407621.58 0.1593 0.0493

Mars 97708-06-02 00:00 G 37408326.42 37408326.50 37408326.59 0.1584 0.1107

Moon 97708-07-17 21:07 G 37408372.31 37408372.38 37408372.45 0.2695 0.2390

Earth 97708-07-17 22:48 G 37408372.37 37408372.45 37408372.54 0.2692 0.2257 *

Saturn 97709-12-24 20:52 G 37408897.22 37408897.37 37408897.52 0.0280 0.0171

Saturn 97710-03-23 21:07 G 37408986.19 37408986.38 37408986.57 0.0281 0.0037

Saturn 97710-06-20 21:21 G 37409075.30 37409075.39 37409075.49 0.0282 0.0246

Jupiter 97710-10-25 11:16 G 37409201.85 37409201.97 37409202.10 0.0512 0.0015

Mars 97713-02-14 10:48 G 37410044.81 37410044.95 37410045.10 0.1949 0.0938

Venus 97714-06-04 12:57 G 37410519.95 37410520.04 37410520.13 0.3633 0.1775

Mars 97715-11-18 10:48 G 37411051.86 37411051.95 37411052.05 0.1595 0.0884

Jupiter 97716-12-16 09:35 G 37411445.71 37411445.90 37411446.08 0.0513 0.0063

Mars 97717-10-23 11:45 G 37411756.89 37411756.99 37411757.10 0.1586 0.0720

Earth 97718-01-18 17:16 G 37411844.13 37411844.22 37411844.31 0.2639 0.1510

Moon 97718-01-18 18:00 G 37411844.17 37411844.25 37411844.33 0.2638 0.1685 *

Venus 97719-12-19 03:50 G 37412543.56 37412543.66 37412543.76 0.3631 0.0093

Moon 97721-07-21 07:11 G 37413123.66 37413123.80 37413123.94 0.2699 0.1172

Earth 97721-07-21 07:40 G 37413123.69 37413123.82 37413123.96 0.2693 0.1363 *

Jupiter 97722-08-13 16:19 G 37413512.06 37413512.18 37413512.30 0.0513 0.0170

Jupiter 97722-11-10 19:40 G 37413601.28 37413601.32 37413601.37 0.0511 0.0473

Uranus 97722-12-24 04:04 G 37413644.63 37413644.67 37413644.74 0.0136 0.0130

Saturn 97723-02-06 20:38 G 37413689.26 37413689.36 37413689.47 0.0283 0.0161

Uranus 97723-03-22 12:00 G 37413732.88 37413733.00 37413733.13 0.0136 0.0101

Saturn 97723-05-06 07:40 G 37413777.69 37413777.82 37413777.95 0.0282 0.0019

Uranus 97723-06-18 19:40 G 37413821.16 37413821.32 37413821.49 0.0136 0.0073

Saturn 97723-08-02 18:28 G 37413866.16 37413866.27 37413866.39 0.0281 0.0121

Uranus 97723-09-15 03:07 G 37413909.46 37413909.63 37413909.83 0.0136 0.0046

Saturn 97723-10-30 05:16 G 37413954.68 37413954.72 37413954.77 0.0280 0.0259

Uranus 97723-12-12 11:02 G 37413997.77 37413997.96 37413998.16 0.0136 0.0018

Uranus 97724-03-09 18:43 G 37414086.09 37414086.28 37414086.48 0.0136 0.0010

Uranus 97724-06-06 02:09 G 37414174.41 37414174.59 37414174.79 0.0136 0.0038

Uranus 97724-09-02 09:35 G 37414262.74 37414262.90 37414263.08 0.0136 0.0066

Uranus 97724-11-29 17:31 G 37414351.09 37414351.23 37414351.37 0.0136 0.0093

Moon 97725-01-11 18:14 G 37414394.24 37414394.26 37414394.28 0.2647 0.2585

Earth 97725-01-11 18:28 G 37414394.24 37414394.27 37414394.30 0.2642 0.2529 *

Uranus 97725-02-26 00:43 G 37414439.46 37414439.53 37414439.63 0.0136 0.0121

Mars 97725-04-09 22:48 G 37414482.38 37414482.45 37414482.52 0.1598 0.1270

Venus 97725-07-03 18:43 G 37414567.20 37414567.28 37414567.36 0.3629 0.1939

Mars 97727-03-15 23:31 G 37415187.37 37415187.48 37415187.60 0.1588 0.0331

Jupiter 97728-10-04 03:50 G 37415755.52 37415755.66 37415755.80 0.0513 0.0337

Venus 97733-10-23 13:11 G 37417600.90 37417601.05 37417601.20 0.3742 0.1577

Jupiter 97734-06-01 21:07 G 37417822.28 37417822.38 37417822.48 0.0513 0.0328

Jupiter 97734-08-30 00:43 G 37417911.43 37417911.53 37417911.63 0.0511 0.0315

Mars 97736-08-05 11:16 G 37418617.86 37418617.97 37418618.09 0.1590 0.0080

Earth 97738-01-14 11:31 G 37419144.88 37419144.98 37419145.08 0.2641 0.1094

Moon 97738-01-14 11:45 G 37419144.89 37419144.99 37419145.09 0.2648 0.1102 *

Mars 97738-07-11 12:28 G 37419322.99 37419323.02 37419323.04 0.1582 0.1540

Saturn 97739-05-13 21:07 G 37419629.26 37419629.38 37419629.51 0.0279 0.0213

Saturn 97739-08-10 21:35 G 37419718.21 37419718.40 37419718.59 0.0280 0.0007

Saturn 97739-11-07 21:35 G 37419807.28 37419807.40 37419807.54 0.0281 0.0204

Jupiter 97740-10-21 14:52 G 37420156.01 37420156.12 37420156.22 0.0515 0.0424

Mars 97743-03-26 20:38 G 37421042.20 37421042.36 37421042.51 0.1953 0.0684

Mars 97745-12-26 23:02 G 37422048.35 37422048.46 37422048.58 0.1592 0.0454

Jupiter 97746-03-21 01:11 G 37422132.53 37422132.55 37422132.58 0.0513 0.0501

Jupiter 97746-06-18 05:02 G 37422221.59 37422221.71 37422221.83 0.0511 0.0145

Mars 97747-12-02 00:00 G 37422753.42 37422753.50 37422753.58 0.1584 0.1152

Earth 97751-01-17 04:48 G 37423895.59 37423895.70 37423895.81 0.2640 0.0355

Moon 97751-01-17 05:31 G 37423895.62 37423895.73 37423895.83 0.2642 0.0509 *

Saturn 97752-06-26 00:14 G 37424421.42 37424421.51 37424421.61 0.0284 0.0192

Jupiter 97752-08-09 11:02 G 37424465.79 37424465.96 37424466.14 0.0514 0.0180

Mars 97752-08-15 12:14 G 37424471.85 37424472.01 37424472.16 0.1949 0.0812

Saturn 97752-09-22 11:16 G 37424509.84 37424509.97 37424510.09 0.0283 0.0050

Saturn 97752-12-19 22:04 G 37424598.30 37424598.42 37424598.54 0.0281 0.0091

Saturn 97753-03-18 08:52 G 37424686.80 37424686.87 37424686.94 0.0280 0.0229

Moon 97754-07-19 04:04 G 37425174.56 37425174.67 37425174.78 0.2695 0.1923

Earth 97754-07-19 05:45 G 37425174.61 37425174.74 37425174.87 0.2692 0.1582 *

Mars 97755-05-19 10:48 G 37425478.86 37425478.95 37425479.05 0.1595 0.0843

Mars 97757-04-23 11:45 G 37426183.89 37426183.99 37426184.10 0.1586 0.0759

Jupiter 97758-04-06 09:35 G 37426531.77 37426531.90 37426532.02 0.0512 0.0023

Earth 97764-01-19 22:04 G 37428646.34 37428646.42 37428646.50 0.2639 0.1810

Moon 97764-01-19 22:48 G 37428646.37 37428646.45 37428646.52 0.2638 0.1855 *

Jupiter 97764-05-28 06:43 G 37428775.59 37428775.78 37428775.96 0.0513 0.0075

Mars 97764-10-08 22:33 G 37428909.37 37428909.44 37428909.52 0.1598 0.1234

Venus 97765-06-25 19:26 G 37429169.25 37429169.31 37429169.37 0.3634 0.2970

Uranus 97765-12-19 20:09 G 37429346.30 37429346.34 37429346.40 0.0142 0.0130

Uranus 97766-03-17 23:31 G 37429434.41 37429434.48 37429434.57 0.0142 0.0109

Uranus 97766-06-14 02:52 G 37429522.53 37429522.62 37429522.73 0.0142 0.0088

Uranus 97766-09-10 06:28 G 37429610.66 37429610.77 37429610.89 0.0142 0.0067

Mars 97766-09-13 23:31 G 37429614.37 37429614.48 37429614.60 0.1588 0.0371

Uranus 97766-12-07 09:50 G 37429698.79 37429698.91 37429699.04 0.0142 0.0046

Uranus 97767-03-05 13:26 G 37429786.93 37429787.06 37429787.19 0.0142 0.0024

Uranus 97767-06-01 16:48 G 37429875.07 37429875.20 37429875.33 0.0142 0.0003

Moon 97767-07-22 14:09 G 37429925.99 37429926.09 37429926.19 0.2700 0.2098

Earth 97767-07-22 14:38 G 37429926.01 37429926.11 37429926.21 0.2693 0.2027 *

Uranus 97767-08-28 20:09 G 37429963.21 37429963.34 37429963.47 0.0142 0.0019

Uranus 97767-11-24 23:31 G 37430051.36 37430051.48 37430051.61 0.0142 0.0040

Uranus 97768-02-21 03:07 G 37430139.51 37430139.63 37430139.75 0.0142 0.0061

Uranus 97768-05-19 06:28 G 37430227.67 37430227.77 37430227.88 0.0142 0.0083

Uranus 97768-08-15 09:50 G 37430315.83 37430315.91 37430316.01 0.0143 0.0105

Saturn 97768-09-29 21:07 G 37430361.31 37430361.38 37430361.44 0.0279 0.0261

Uranus 97768-11-11 13:26 G 37430404.01 37430404.06 37430404.12 0.0143 0.0126

Saturn 97768-12-27 21:21 G 37430450.20 37430450.39 37430450.57 0.0280 0.0055

Saturn 97769-03-26 21:35 G 37430539.24 37430539.40 37430539.56 0.0282 0.0155

Jupiter 97770-01-23 13:55 G 37430841.97 37430842.08 37430842.20 0.0513 0.0187

Jupiter 97770-04-22 17:31 G 37430931.18 37430931.23 37430931.29 0.0511 0.0455

Venus 97771-01-09 10:19 G 37431192.83 37431192.93 37431193.03 0.3632 0.1108

Moon 97771-01-12 23:02 G 37431196.41 37431196.46 37431196.51 0.2648 0.2252

Earth 97771-01-12 23:16 G 37431196.41 37431196.47 37431196.52 0.2642 0.2240 *

Mars 97776-02-04 11:16 G 37433044.85 37433044.97 37433045.09 0.1590 0.0027

Jupiter 97776-03-16 01:40 G 37433085.44 37433085.57 37433085.72 0.0513 0.0334

Venus 97776-07-25 01:11 G 37433216.45 37433216.55 37433216.65 0.3630 0.0752

Jupiter 97781-11-11 18:57 G 37435152.20 37435152.29 37435152.38 0.0513 0.0345

Saturn 97781-11-13 03:35 G 37435153.58 37435153.65 37435153.73 0.0284 0.0221

Venus 97782-02-07 16:04 G 37435240.10 37435240.17 37435240.23 0.3628 0.2600

Jupiter 97782-02-08 22:33 G 37435241.34 37435241.44 37435241.54 0.0511 0.0300

Saturn 97782-02-09 14:38 G 37435241.99 37435242.11 37435242.23 0.0282 0.0078

Saturn 97782-05-09 01:26 G 37435330.44 37435330.56 37435330.69 0.0281 0.0063

Saturn 97782-08-05 12:14 G 37435418.93 37435419.01 37435419.10 0.0280 0.0201

Mars 97782-09-24 21:35 G 37435469.25 37435469.40 37435469.55 0.1954 0.0801

Earth 97784-01-15 16:19 G 37435947.08 37435947.18 37435947.29 0.2641 0.0801

Moon 97784-01-15 16:33 G 37435947.09 37435947.19 37435947.30 0.2647 0.0753 *

Neptune 97784-05-25 20:09 G 37436078.34 37436078.34 37436078.35 0.0090 0.0089

Neptune 97784-08-21 23:45 G 37436166.41 37436166.49 37436166.60 0.0090 0.0079

Neptune 97784-11-18 03:35 G 37436254.54 37436254.65 37436254.79 0.0090 0.0068

Neptune 97785-02-14 07:26 G 37436342.67 37436342.81 37436342.97 0.0090 0.0057

Neptune 97785-05-13 11:16 G 37436430.81 37436430.97 37436431.15 0.0090 0.0046

Mars 97785-06-26 23:02 G 37436475.35 37436475.46 37436475.58 0.1592 0.0411

Neptune 97785-08-09 15:07 G 37436518.96 37436519.13 37436519.32 0.0090 0.0035

Neptune 97785-11-05 18:57 G 37436607.11 37436607.29 37436607.49 0.0090 0.0024

Neptune 97786-02-01 22:48 G 37436695.26 37436695.45 37436695.65 0.0090 0.0013

Neptune 97786-05-01 02:38 G 37436783.42 37436783.61 37436783.81 0.0090 0.0002

Neptune 97786-07-28 06:28 G 37436871.58 37436871.77 37436871.97 0.0090 0.0010

Neptune 97786-10-24 10:19 G 37436959.74 37436959.93 37436960.12 0.0090 0.0021

Neptune 97787-01-20 13:55 G 37437047.90 37437048.08 37437048.27 0.0090 0.0032

Neptune 97787-04-18 17:45 G 37437136.07 37437136.24 37437136.42 0.0090 0.0043

Mars 97787-06-02 00:00 G 37437180.43 37437180.50 37437180.58 0.1584 0.1194

Neptune 97787-07-15 21:21 G 37437224.25 37437224.39 37437224.56 0.0090 0.0054

Neptune 97787-10-12 01:11 G 37437312.42 37437312.55 37437312.69 0.0090 0.0065

Neptune 97788-01-08 04:48 G 37437400.61 37437400.70 37437400.82 0.0090 0.0076

Jupiter 97788-04-02 11:31 G 37437485.87 37437485.98 37437486.09 0.0514 0.0406

Neptune 97788-04-05 08:24 G 37437488.83 37437488.85 37437488.92 0.0090 0.0087

Venus 97790-05-30 16:48 G 37438274.04 37438274.20 37438274.36 0.3743 0.1180

Mars 97792-02-14 12:57 G 37438898.89 37438899.04 37438899.20 0.1949 0.0707

Jupiter 97793-08-30 23:45 G 37439462.47 37439462.49 37439462.51 0.0514 0.0503

Jupiter 97793-11-28 03:21 G 37439551.52 37439551.64 37439551.76 0.0512 0.0143

Mars 97794-11-17 10:48 G 37439905.85 37439905.95 37439906.05 0.1595 0.0800

Mars 97796-10-22 11:45 G 37440610.89 37440610.99 37440611.09 0.1586 0.0806

Earth 97797-01-17 09:35 G 37440697.79 37440697.90 37440698.00 0.2639 0.0651

Moon 97797-01-17 10:19 G 37440697.82 37440697.93 37440698.03 0.2641 0.0725 *

Saturn 97798-05-16 21:07 G 37441182.20 37441182.38 37441182.56 0.0280 0.0100

Saturn 97798-08-13 21:21 G 37441271.22 37441271.39 37441271.57 0.0281 0.0108

Jupiter 97800-01-20 07:11 G 37441795.62 37441795.80 37441795.98 0.0514 0.0154

Moon 97800-07-20 11:16 G 37441976.83 37441976.97 37441977.12 0.2696 0.1009

Earth 97800-07-20 12:43 G 37441976.88 37441977.03 37441977.18 0.2692 0.0895 *

Mars 97804-04-09 22:33 G 37443336.37 37443336.44 37443336.52 0.1598 0.1194

Jupiter 97805-09-17 07:40 G 37443861.69 37443861.82 37443861.95 0.0512 0.0028

Mars 97806-03-15 23:31 G 37444041.37 37444041.48 37444041.59 0.1588 0.0413

Uranus 97807-01-14 11:16 G 37444345.90 37444345.97 37444346.06 0.0136 0.0123

Uranus 97807-04-12 19:11 G 37444434.16 37444434.30 37444434.44 0.0136 0.0094

Uranus 97807-07-10 02:52 G 37444522.45 37444522.62 37444522.79 0.0136 0.0066

Uranus 97807-10-06 10:33 G 37444610.75 37444610.94 37444611.13 0.0136 0.0038

Uranus 97808-01-02 18:14 G 37444699.07 37444699.26 37444699.46 0.0136 0.0011

Uranus 97808-03-31 01:55 G 37444787.39 37444787.58 37444787.77 0.0136 0.0017

Uranus 97808-06-27 09:35 G 37444875.71 37444875.90 37444876.08 0.0136 0.0045

Uranus 97808-09-23 17:02 G 37444964.05 37444964.21 37444964.38 0.0136 0.0073

Uranus 97808-12-21 00:28 G 37445052.40 37445052.52 37445052.66 0.0136 0.0101

Pluto 97808-12-30 05:16 G 37445061.72 37445061.72 37445061.76 0.0061 0.0060

Uranus 97809-03-19 08:09 G 37445140.79 37445140.84 37445140.91 0.0136 0.0128

Pluto 97809-03-28 06:43 G 37445149.69 37445149.78 37445149.89 0.0061 0.0050

Pluto 97809-06-24 07:55 G 37445237.70 37445237.83 37445237.98 0.0061 0.0040

Pluto 97809-09-20 08:52 G 37445325.73 37445325.87 37445326.06 0.0061 0.0030

Pluto 97809-12-17 10:33 G 37445413.76 37445413.94 37445414.12 0.0061 0.0019

Earth 97810-01-21 02:52 G 37445448.55 37445448.62 37445448.68 0.2638 0.2110

Moon 97810-01-21 03:21 G 37445448.58 37445448.64 37445448.69 0.2636 0.2254 *

Pluto 97810-03-15 11:45 G 37445501.81 37445501.99 37445502.18 0.0061 0.0009

Pluto 97810-06-11 12:57 G 37445589.86 37445590.04 37445590.23 0.0061 0.0002

Pluto 97810-09-07 14:09 G 37445677.91 37445678.09 37445678.28 0.0061 0.0012

Pluto 97810-12-04 15:21 G 37445765.97 37445766.14 37445766.32 0.0061 0.0022

Pluto 97811-03-02 16:19 G 37445854.04 37445854.18 37445854.36 0.0061 0.0033

Saturn 97811-04-03 06:57 G 37445885.74 37445885.79 37445885.85 0.0284 0.0254

Pluto 97811-05-29 17:45 G 37445942.12 37445942.24 37445942.38 0.0061 0.0043

Saturn 97811-06-30 18:00 G 37445974.13 37445974.25 37445974.37 0.0283 0.0111

Pluto 97811-08-25 18:43 G 37446030.22 37446030.28 37446030.39 0.0061 0.0054

Saturn 97811-09-27 04:48 G 37446062.57 37446062.70 37446062.83 0.0282 0.0031

Jupiter 97811-11-09 03:21 G 37446105.46 37446105.64 37446105.83 0.0514 0.0090

Saturn 97811-12-24 15:35 G 37446151.05 37446151.15 37446151.26 0.0281 0.0170

Moon 97813-07-23 21:07 G 37446728.34 37446728.38 37446728.43 0.2701 0.2556

Mars 97813-08-31 10:19 G 37446766.92 37446766.93 37446766.95 0.1601 0.1585

Mars 97815-08-06 11:16 G 37447471.85 37447471.97 37447472.09 0.1590 0.0023

Moon 97817-01-14 03:50 G 37447998.59 37447998.66 37447998.73 0.2649 0.2015

Earth 97817-01-14 03:50 G 37447998.59 37447998.66 37447998.74 0.2642 0.1952 *

Jupiter 97817-07-06 12:14 G 37448171.90 37448172.01 37448172.13 0.0512 0.0191

Jupiter 97817-10-03 15:50 G 37448261.10 37448261.16 37448261.22 0.0510 0.0449

Venus 97822-01-31 16:48 G 37449842.12 37449842.20 37449842.27 0.3634 0.2306

Mars 97822-03-26 22:19 G 37449896.28 37449896.43 37449896.58 0.1953 0.0899

Jupiter 97823-08-27 23:16 G 37450415.33 37450415.47 37450415.61 0.0513 0.0340

Mars 97824-12-26 23:02 G 37450902.35 37450902.46 37450902.58 0.1592 0.0368

Mars 97826-12-02 00:00 G 37451607.43 37451607.50 37451607.57 0.1584 0.1236

Venus 97827-08-17 07:26 G 37451865.71 37451865.81 37451865.91 0.3632 0.0475

Saturn 97827-10-04 20:09 G 37451914.18 37451914.34 37451914.50 0.0280 0.0155

Saturn 97828-01-01 20:24 G 37452003.16 37452003.35 37452003.54 0.0281 0.0053

Saturn 97828-03-30 20:38 G 37452092.30 37452092.36 37452092.43 0.0282 0.0264

Jupiter 97829-04-24 16:48 G 37452482.11 37452482.20 37452482.29 0.0513 0.0358

Jupiter 97829-07-22 20:24 G 37452571.25 37452571.35 37452571.46 0.0511 0.0285

Earth 97830-01-16 21:07 G 37452749.27 37452749.38 37452749.49 0.2640 0.0507

Moon 97830-01-16 21:35 G 37452749.29 37452749.40 37452749.50 0.2645 0.0443 *

Mars 97831-08-16 13:40 G 37453325.91 37453326.07 37453326.23 0.1949 0.0613

Venus 97833-03-01 22:19 G 37453889.34 37453889.43 37453889.53 0.3630 0.1411

Mars 97834-05-19 10:48 G 37454332.85 37454332.95 37454333.05 0.1595 0.0759

Jupiter 97835-09-14 09:50 G 37454815.80 37454815.91 37454816.02 0.0514 0.0413

Mars 97836-04-23 11:45 G 37455037.89 37455037.99 37455038.09 0.1586 0.0846

Venus 97838-09-15 13:11 G 37455913.01 37455913.05 37455913.09 0.3628 0.3242

Saturn 97840-11-16 21:21 G 37456706.27 37456706.39 37456706.50 0.0283 0.0142

Saturn 97841-02-13 08:09 G 37456794.71 37456794.84 37456794.97 0.0282 0.0001

Jupiter 97841-05-11 01:26 G 37456881.43 37456881.56 37456881.68 0.0512 0.0130

Saturn 97841-05-12 18:57 G 37456883.18 37456883.29 37456883.40 0.0281 0.0139

Saturn 97841-08-09 05:45 G 37456971.73 37456971.74 37456971.76 0.0279 0.0277

Earth 97843-01-19 14:24 G 37457499.99 37457500.10 37457500.20 0.2639 0.0947

Moon 97843-01-19 14:52 G 37457500.03 37457500.12 37457500.22 0.2641 0.1085 *

Mars 97843-10-09 22:33 G 37457763.36 37457763.44 37457763.52 0.1598 0.1150

Mars 97845-09-13 23:31 G 37458468.37 37458468.48 37458468.59 0.1588 0.0457

Moon 97846-07-21 18:43 G 37458779.12 37458779.28 37458779.43 0.2698 0.0403

Earth 97846-07-21 19:40 G 37458779.15 37458779.32 37458779.48 0.2692 0.0232 *

Jupiter 97847-07-03 04:33 G 37459125.51 37459125.69 37459125.87 0.0514 0.0145

Uranus 97850-01-10 03:50 G 37460047.60 37460047.66 37460047.73 0.0142 0.0123

Uranus 97850-04-08 07:11 G 37460135.72 37460135.80 37460135.89 0.0142 0.0102

Uranus 97850-07-05 10:48 G 37460223.84 37460223.95 37460224.05 0.0142 0.0081

Uranus 97850-10-01 14:09 G 37460311.97 37460312.09 37460312.21 0.0142 0.0060

Uranus 97850-12-28 17:31 G 37460400.10 37460400.23 37460400.36 0.0142 0.0039

Uranus 97851-03-26 20:52 G 37460488.24 37460488.37 37460488.50 0.0142 0.0018

Uranus 97851-06-23 00:28 G 37460576.38 37460576.52 37460576.65 0.0142 0.0006

Uranus 97851-09-19 03:50 G 37460664.53 37460664.66 37460664.79 0.0142 0.0025

Uranus 97851-12-16 07:11 G 37460752.68 37460752.80 37460752.93 0.0142 0.0046

Uranus 97852-03-13 10:33 G 37460840.83 37460840.94 37460841.06 0.0142 0.0068

Uranus 97852-06-09 14:09 G 37460928.99 37460929.09 37460929.19 0.0142 0.0089

Uranus 97852-09-05 17:31 G 37461017.15 37461017.23 37461017.32 0.0142 0.0111

Uranus 97852-12-02 20:52 G 37461105.33 37461105.37 37461105.43 0.0142 0.0133

Jupiter 97853-02-27 06:14 G 37461191.63 37461191.76 37461191.89 0.0512 0.0028

Mars 97853-03-01 10:19 G 37461193.91 37461193.93 37461193.96 0.1601 0.1545

Mars 97855-02-04 11:16 G 37461898.85 37461898.97 37461899.09 0.1590 0.0068

Earth 97856-01-22 07:26 G 37462250.77 37462250.81 37462250.86 0.2638 0.2404

Moon 97856-01-22 07:55 G 37462250.80 37462250.83 37462250.87 0.2634 0.2439 *

Saturn 97857-02-20 19:11 G 37462646.18 37462646.30 37462646.44 0.0279 0.0206

Saturn 97857-05-20 19:40 G 37462735.13 37462735.32 37462735.51 0.0280 0.0002

Saturn 97857-08-17 19:55 G 37462824.21 37462824.33 37462824.46 0.0282 0.0211

Jupiter 97859-04-21 00:14 G 37463435.33 37463435.51 37463435.69 0.0513 0.0106

Mars 97861-09-24 23:16 G 37464323.33 37464323.47 37464323.61 0.1953 0.1011

Moon 97863-01-15 08:38 G 37464800.77 37464800.86 37464800.94 0.2648 0.1630

Earth 97863-01-15 08:38 G 37464800.78 37464800.86 37464800.94 0.2641 0.1660 *

Mars 97864-06-26 23:02 G 37465329.34 37465329.46 37465329.57 0.1592 0.0327

Jupiter 97864-12-16 10:33 G 37465501.83 37465501.94 37465502.06 0.0512 0.0197

Neptune 97865-03-14 21:07 G 37465590.36 37465590.38 37465590.42 0.0088 0.0085

Jupiter 97865-03-15 14:09 G 37465591.03 37465591.09 37465591.15 0.0511 0.0444

Neptune 97865-06-10 22:19 G 37465678.38 37465678.43 37465678.50 0.0088 0.0078

Neptune 97865-09-06 23:31 G 37465766.42 37465766.48 37465766.57 0.0088 0.0071

Neptune 97865-12-04 00:57 G 37465854.46 37465854.54 37465854.64 0.0088 0.0064

Neptune 97866-03-02 02:09 G 37465942.50 37465942.59 37465942.70 0.0088 0.0057

Neptune 97866-05-29 03:35 G 37466030.54 37466030.65 37466030.76 0.0088 0.0050

Mars 97866-06-02 00:00 G 37466034.43 37466034.50 37466034.57 0.1584 0.1281

Neptune 97866-08-25 04:48 G 37466118.59 37466118.70 37466118.82 0.0088 0.0043

Neptune 97866-11-21 06:00 G 37466206.63 37466206.75 37466206.87 0.0088 0.0036

Neptune 97867-02-17 07:26 G 37466294.68 37466294.81 37466294.93 0.0088 0.0029

Neptune 97867-05-16 08:38 G 37466382.73 37466382.86 37466382.99 0.0088 0.0022

Neptune 97867-08-12 09:50 G 37466470.78 37466470.91 37466471.04 0.0088 0.0015

Neptune 97867-11-08 11:02 G 37466558.83 37466558.96 37466559.09 0.0088 0.0008

Neptune 97868-02-04 12:14 G 37466646.88 37466647.01 37466647.15 0.0088 0.0003

Neptune 97868-05-02 13:40 G 37466734.93 37466735.07 37466735.20 0.0088 0.0006

Neptune 97868-07-29 14:52 G 37466822.99 37466823.12 37466823.25 0.0088 0.0013

Neptune 97868-10-25 16:04 G 37466911.04 37466911.17 37466911.30 0.0088 0.0020

Neptune 97869-01-21 17:16 G 37466999.10 37466999.22 37466999.35 0.0088 0.0027

Neptune 97869-04-19 18:28 G 37467087.15 37467087.27 37467087.40 0.0088 0.0034

Neptune 97869-07-16 19:40 G 37467175.21 37467175.32 37467175.44 0.0088 0.0041

Neptune 97869-10-12 20:52 G 37467263.27 37467263.37 37467263.49 0.0088 0.0048

Neptune 97870-01-08 22:04 G 37467351.33 37467351.42 37467351.54 0.0088 0.0055

Saturn 97870-04-06 00:28 G 37467438.42 37467438.52 37467438.62 0.0284 0.0177

Neptune 97870-04-06 23:16 G 37467439.39 37467439.47 37467439.58 0.0088 0.0062

Saturn 97870-07-03 11:16 G 37467526.85 37467526.97 37467527.10 0.0283 0.0036

Neptune 97870-07-04 00:43 G 37467527.46 37467527.53 37467527.62 0.0088 0.0068

Saturn 97870-09-29 22:04 G 37467615.31 37467615.42 37467615.55 0.0281 0.0107

Neptune 97870-09-30 02:09 G 37467615.52 37467615.59 37467615.66 0.0088 0.0075 *

Neptune 97870-12-27 03:21 G 37467703.60 37467703.64 37467703.69 0.0088 0.0082

Saturn 97870-12-27 08:52 G 37467703.82 37467703.87 37467703.94 0.0280 0.0244

Jupiter 97871-02-06 20:24 G 37467745.21 37467745.35 37467745.49 0.0513 0.0350

Mars 97871-02-14 14:52 G 37467752.95 37467753.12 37467753.28 0.1949 0.0495

Venus 97873-02-21 23:02 G 37468491.44 37468491.46 37468491.49 0.3635 0.3505

Mars 97873-11-17 10:48 G 37468759.85 37468759.95 37468760.05 0.1595 0.0718

Mars 97875-10-23 11:45 G 37469464.89 37469464.99 37469465.09 0.1586 0.0889

Earth 97876-01-18 01:55 G 37469551.47 37469551.58 37469551.69 0.2640 0.0221

Moon 97876-01-18 02:24 G 37469551.49 37469551.60 37469551.71 0.2645 0.0170 *

Jupiter 97876-10-04 15:21 G 37469812.05 37469812.14 37469812.23 0.0513 0.0358

Jupiter 97877-01-01 18:57 G 37469901.18 37469901.29 37469901.39 0.0511 0.0284

Venus 97878-09-07 13:55 G 37470514.99 37470515.08 37470515.17 0.3633 0.1644

Jupiter 97883-02-24 07:40 G 37472145.71 37472145.82 37472145.93 0.0514 0.0414

Mars 97883-04-09 22:33 G 37472190.36 37472190.44 37472190.52 0.1598 0.1111

Venus 97884-03-23 04:48 G 37472538.60 37472538.70 37472538.80 0.3631 0.0216

Mars 97885-03-14 23:31 G 37472895.37 37472895.48 37472895.59 0.1588 0.0501

Saturn 97886-07-10 17:45 G 37473378.18 37473378.24 37473378.30 0.0279 0.0265

Saturn 97886-10-07 18:00 G 37473467.06 37473467.25 37473467.44 0.0280 0.0059

Saturn 97887-01-04 18:14 G 37473556.10 37473556.26 37473556.42 0.0281 0.0150

Jupiter 97888-10-20 23:31 G 37474211.36 37474211.48 37474211.60 0.0512 0.0121

Earth 97889-01-19 18:57 G 37474302.20 37474302.29 37474302.39 0.2639 0.1240

Moon 97889-01-19 19:40 G 37474302.23 37474302.32 37474302.41 0.2640 0.1337 *

Venus 97889-10-06 19:40 G 37474562.24 37474562.32 37474562.40 0.3629 0.2053

Uranus 97891-02-03 17:45 G 37475047.16 37475047.24 37475047.35 0.0136 0.0118

Uranus 97891-05-03 01:40 G 37475135.43 37475135.57 37475135.72 0.0136 0.0089

Uranus 97891-07-30 09:21 G 37475223.72 37475223.89 37475224.07 0.0136 0.0061

Uranus 97891-10-26 17:02 G 37475312.03 37475312.21 37475312.41 0.0136 0.0034

Uranus 97892-01-23 00:57 G 37475400.34 37475400.54 37475400.74 0.0136 0.0005

Uranus 97892-04-20 08:38 G 37475488.67 37475488.86 37475489.05 0.0136 0.0023

Uranus 97892-07-17 16:04 G 37475577.00 37475577.17 37475577.36 0.0136 0.0051

Moon 97892-07-22 01:40 G 37475581.41 37475581.57 37475581.72 0.2699 0.0348

Earth 97892-07-22 02:24 G 37475581.45 37475581.60 37475581.76 0.2692 0.0465 *

Mars 97892-08-30 10:19 G 37475620.90 37475620.93 37475620.97 0.1601 0.1504

Uranus 97892-10-13 23:31 G 37475665.34 37475665.48 37475665.66 0.0136 0.0079

Uranus 97893-01-10 07:26 G 37475753.69 37475753.81 37475753.93 0.0136 0.0106

Uranus 97893-04-08 14:52 G 37475842.10 37475842.12 37475842.16 0.0136 0.0134

Mars 97894-08-05 11:16 G 37476325.85 37476325.97 37476326.08 0.1590 0.0113

Jupiter 97894-12-13 03:07 G 37476455.45 37476455.63 37476455.81 0.0514 0.0158

Venus 97898-01-26 09:21 G 37477595.76 37477595.89 37477596.03 0.3741 0.2096

Saturn 97899-08-24 03:07 G 37478170.55 37478170.63 37478170.72 0.0284 0.0215

Saturn 97899-11-20 14:09 G 37478258.96 37478259.09 37478259.22 0.0283 0.0072

Saturn 97900-02-17 00:57 G 37478347.42 37478347.54 37478347.67 0.0281 0.0069

Saturn 97900-05-16 11:45 G 37478435.91 37478435.99 37478436.08 0.0280 0.0208

Jupiter 97900-08-10 04:19 G 37478521.56 37478521.68 37478521.81 0.0512 0.0039

Mars 97901-03-27 00:14 G 37478750.37 37478750.51 37478750.64 0.1954 0.1122

Pluto 97902-10-16 09:50 G 37479318.90 37479318.91 37479318.94 0.0084 0.0083

Pluto 97903-01-12 11:16 G 37479406.88 37479406.97 37479407.06 0.0084 0.0063

Pluto 97903-04-10 12:28 G 37479494.91 37479495.02 37479495.14 0.0083 0.0043

Pluto 97903-07-07 13:55 G 37479582.95 37479583.08 37479583.21 0.0083 0.0024

Pluto 97903-10-03 15:07 G 37479670.99 37479671.13 37479671.27 0.0083 0.0004

Mars 97903-12-27 23:02 G 37479756.34 37479756.46 37479756.58 0.1592 0.0282

Pluto 97903-12-30 16:19 G 37479759.05 37479759.18 37479759.32 0.0083 0.0015

Pluto 97904-03-27 17:31 G 37479847.11 37479847.23 37479847.36 0.0083 0.0035

Pluto 97904-06-23 18:43 G 37479935.18 37479935.28 37479935.39 0.0083 0.0054

Pluto 97904-09-19 19:55 G 37480023.28 37480023.33 37480023.40 0.0083 0.0073

Mars 97905-12-02 00:00 G 37480461.44 37480461.50 37480461.56 0.1584 0.1325

Jupiter 97906-10-01 22:04 G 37480765.23 37480765.42 37480765.60 0.0513 0.0107

Moon 97909-01-16 13:26 G 37481602.97 37481603.06 37481603.15 0.2648 0.1418

Earth 97909-01-16 13:26 G 37481602.97 37481603.06 37481603.15 0.2641 0.1365 *

Mars 97910-08-16 15:50 G 37482179.99 37482180.16 37482180.32 0.1949 0.0383

Jupiter 97912-05-29 09:21 G 37482831.77 37482831.89 37482832.00 0.0513 0.0193

Jupiter 97912-08-26 12:57 G 37482920.98 37482921.04 37482921.10 0.0511 0.0449

Mars 97913-05-19 10:48 G 37483186.84 37483186.95 37483187.05 0.1595 0.0677

Mars 97915-04-24 11:45 G 37483891.90 37483891.99 37483892.08 0.1586 0.0935

Saturn 97916-02-25 16:19 G 37484199.01 37484199.18 37484199.35 0.0280 0.0119

Saturn 97916-05-24 16:33 G 37484288.01 37484288.19 37484288.37 0.0281 0.0090

Jupiter 97918-07-20 17:45 G 37485075.11 37485075.24 37485075.38 0.0513 0.0355

Mars 97920-01-06 06:43 G 37485609.75 37485609.78 37485609.81 0.1945 0.1909

Earth 97922-01-19 06:43 G 37486353.67 37486353.78 37486353.88 0.2640 0.0135

Moon 97922-01-19 07:11 G 37486353.69 37486353.80 37486353.91 0.2644 0.0222 *

Mars 97922-10-09 22:33 G 37486617.35 37486617.44 37486617.52 0.1598 0.1071

Jupiter 97924-03-17 13:40 G 37487141.99 37487142.07 37487142.16 0.0513 0.0359

Jupiter 97924-06-14 17:16 G 37487231.12 37487231.22 37487231.33 0.0511 0.0284

Mars 97924-09-13 23:16 G 37487322.36 37487322.47 37487322.59 0.1588 0.0546

Earth 97925-07-21 00:14 G 37487632.46 37487632.51 37487632.57 0.2691 0.2504

Saturn 97929-01-11 06:00 G 37488902.70 37488902.75 37488902.81 0.0285 0.0254

Saturn 97929-04-09 17:02 G 37488991.09 37488991.21 37488991.33 0.0283 0.0110

Saturn 97929-07-07 03:50 G 37489079.53 37489079.66 37489079.79 0.0282 0.0033

Venus 97929-09-29 20:24 G 37489164.29 37489164.35 37489164.41 0.3635 0.2848

Saturn 97929-10-03 14:38 G 37489168.01 37489168.11 37489168.22 0.0281 0.0172

Jupiter 97930-08-07 05:16 G 37489475.61 37489475.72 37489475.83 0.0515 0.0412

Mars 97932-03-01 10:19 G 37490047.89 37490047.93 37490047.97 0.1601 0.1464

Uranus 97933-11-04 08:09 G 37490660.82 37490660.84 37490660.88 0.0142 0.0136

Uranus 97934-01-31 11:31 G 37490748.92 37490748.98 37490749.06 0.0142 0.0116

Mars 97934-02-04 11:16 G 37490752.85 37490752.97 37490753.08 0.1590 0.0158

Uranus 97934-04-29 14:52 G 37490837.03 37490837.12 37490837.23 0.0142 0.0095

Uranus 97934-07-26 18:28 G 37490925.16 37490925.27 37490925.38 0.0142 0.0073

Uranus 97934-10-22 21:50 G 37491013.29 37491013.41 37491013.54 0.0142 0.0052

Uranus 97935-01-19 01:26 G 37491101.43 37491101.56 37491101.68 0.0142 0.0031

Earth 97935-01-21 23:45 G 37491104.40 37491104.49 37491104.58 0.2639 0.1534

Moon 97935-01-22 00:28 G 37491104.43 37491104.52 37491104.60 0.2638 0.1619 *

Venus 97935-04-15 11:16 G 37491187.87 37491187.97 37491188.06 0.3633 0.0988

Uranus 97935-04-17 04:48 G 37491189.57 37491189.70 37491189.83 0.0142 0.0010

Uranus 97935-07-14 08:09 G 37491277.71 37491277.84 37491277.97 0.0142 0.0011

Uranus 97935-10-10 11:31 G 37491365.86 37491365.98 37491366.11 0.0142 0.0033

Uranus 97936-01-06 15:07 G 37491454.01 37491454.13 37491454.25 0.0142 0.0054

Jupiter 97936-04-02 22:04 G 37491541.30 37491541.42 37491541.55 0.0511 0.0127

Uranus 97936-04-03 18:28 G 37491542.16 37491542.27 37491542.38 0.0142 0.0076

Uranus 97936-06-30 21:50 G 37491630.32 37491630.41 37491630.51 0.0142 0.0097

Uranus 97936-09-27 01:26 G 37491718.49 37491718.56 37491718.63 0.0142 0.0119

Uranus 97936-12-24 04:48 G 37491806.69 37491806.70 37491806.73 0.0142 0.0140

Moon 97938-07-24 08:24 G 37492383.71 37492383.85 37492384.00 0.2699 0.1035

Earth 97938-07-24 09:21 G 37492383.74 37492383.89 37492384.03 0.2693 0.1134 *

Mars 97940-09-25 01:11 G 37493177.42 37493177.55 37493177.67 0.1954 0.1229

Venus 97940-10-29 01:55 G 37493211.49 37493211.58 37493211.68 0.3631 0.0878

Earth 97942-01-15 00:57 G 37493654.51 37493654.54 37493654.57 0.2642 0.2511

Moon 97942-01-15 00:43 G 37493654.52 37493654.53 37493654.54 0.2649 0.2630 *

Jupiter 97942-05-26 01:26 G 37493785.38 37493785.56 37493785.73 0.0514 0.0165

Mars 97943-06-27 23:02 G 37494183.34 37494183.46 37494183.57 0.1592 0.0246

Mars 97945-06-02 00:00 G 37494888.44 37494888.50 37494888.56 0.1584 0.1368

Saturn 97945-07-14 13:40 G 37494930.93 37494931.07 37494931.22 0.0279 0.0185

Saturn 97945-10-11 13:55 G 37495019.89 37495020.08 37495020.28 0.0280 0.0023

Saturn 97946-01-08 14:24 G 37495108.99 37495109.10 37495109.20 0.0282 0.0232

Venus 97946-05-14 16:48 G 37495235.14 37495235.20 37495235.27 0.3629 0.2704

Jupiter 97948-01-21 02:52 G 37495851.49 37495851.62 37495851.74 0.0512 0.0039

Neptune 97949-02-21 18:00 G 37496249.21 37496249.25 37496249.31 0.0090 0.0086

Neptune 97949-05-20 21:50 G 37496337.31 37496337.41 37496337.52 0.0090 0.0075

Neptune 97949-08-17 01:40 G 37496425.44 37496425.57 37496425.71 0.0090 0.0064

Neptune 97949-11-13 05:31 G 37496513.58 37496513.73 37496513.89 0.0090 0.0053

Neptune 97950-02-09 09:21 G 37496601.72 37496601.89 37496602.07 0.0090 0.0042

Mars 97950-02-14 16:19 G 37496607.01 37496607.18 37496607.35 0.1950 0.0291

Neptune 97950-05-08 13:11 G 37496689.87 37496690.05 37496690.24 0.0090 0.0031

Neptune 97950-08-04 17:02 G 37496778.02 37496778.21 37496778.40 0.0090 0.0020

Neptune 97950-10-31 20:52 G 37496866.17 37496866.37 37496866.56 0.0090 0.0009

Neptune 97951-01-28 00:43 G 37496954.33 37496954.53 37496954.72 0.0090 0.0003

Neptune 97951-04-26 04:19 G 37497042.49 37497042.68 37497042.88 0.0090 0.0013

Neptune 97951-07-23 07:55 G 37497130.65 37497130.83 37497131.03 0.0090 0.0025

Neptune 97951-10-19 11:45 G 37497218.82 37497218.99 37497219.18 0.0090 0.0035

Neptune 97952-01-15 15:21 G 37497306.99 37497307.14 37497307.32 0.0090 0.0047

Neptune 97952-04-12 18:57 G 37497395.16 37497395.29 37497395.46 0.0090 0.0058

Neptune 97952-07-09 23:16 G 37497483.35 37497483.47 37497483.60 0.0090 0.0068

Neptune 97952-10-06 02:52 G 37497571.54 37497571.62 37497571.72 0.0090 0.0079

Mars 97952-11-17 10:48 G 37497613.84 37497613.95 37497614.05 0.1595 0.0637

Jupiter 97954-03-13 21:07 G 37498095.19 37498095.38 37498095.56 0.0513 0.0087

Venus 97954-09-03 12:57 G 37498268.87 37498269.04 37498269.20 0.3742 0.0642

Mars 97954-10-23 11:45 G 37498318.90 37498318.99 37498319.08 0.1586 0.0978

Earth 97955-01-17 18:14 G 37498405.16 37498405.26 37498405.36 0.2641 0.1073

Moon 97955-01-17 18:28 G 37498405.17 37498405.27 37498405.37 0.2647 0.0992 *

Saturn 97958-08-27 19:26 G 37499723.20 37499723.31 37499723.42 0.0284 0.0153

Saturn 97958-11-24 06:14 G 37499811.63 37499811.76 37499811.89 0.0282 0.0012

Saturn 97959-02-20 17:02 G 37499900.10 37499900.21 37499900.33 0.0281 0.0131

Saturn 97959-05-20 03:50 G 37499988.64 37499988.66 37499988.70 0.0280 0.0269

Mars 97959-07-07 07:55 G 37500036.77 37500036.83 37500036.89 0.1945 0.1792

Jupiter 97959-11-09 07:40 G 37500161.71 37500161.82 37500161.94 0.0513 0.0195

Jupiter 97960-02-06 11:16 G 37500250.91 37500250.97 37500251.03 0.0511 0.0446

Mars 97962-04-09 22:33 G 37501044.35 37501044.44 37501044.53 0.1597 0.1027

Mars 97964-03-14 23:16 G 37501749.37 37501749.47 37501749.58 0.1588 0.0589

Jupiter 97965-12-30 16:19 G 37502405.04 37502405.18 37502405.31 0.0513 0.0346

Earth 97968-01-20 11:16 G 37503155.87 37503155.97 37503156.08 0.2640 0.0383

Moon 97968-01-20 12:00 G 37503155.89 37503156.00 37503156.10 0.2644 0.0419 *

Moon 97971-07-22 06:00 G 37504434.64 37504434.75 37504434.86 0.2696 0.1897

Earth 97971-07-22 07:26 G 37504434.69 37504434.81 37504434.93 0.2691 0.1804 *

Jupiter 97971-08-28 12:43 G 37504471.94 37504472.03 37504472.12 0.0513 0.0351

Mars 97971-08-31 10:19 G 37504474.88 37504474.93 37504474.98 0.1601 0.1424

Jupiter 97971-11-25 16:19 G 37504561.08 37504561.18 37504561.28 0.0512 0.0293

Mars 97973-08-05 11:16 G 37505179.85 37505179.97 37505180.08 0.1590 0.0201

Saturn 97974-12-01 11:16 G 37505662.89 37505662.97 37505663.06 0.0279 0.0250

Uranus 97975-02-25 01:11 G 37505748.45 37505748.55 37505748.68 0.0136 0.0110

Saturn 97975-02-28 11:31 G 37505751.79 37505751.98 37505752.17 0.0280 0.0044

Uranus 97975-05-24 09:07 G 37505836.73 37505836.88 37505837.04 0.0136 0.0081

Saturn 97975-05-28 11:45 G 37505840.84 37505840.99 37505841.15 0.0281 0.0165

Uranus 97975-08-20 16:48 G 37505925.03 37505925.20 37505925.39 0.0136 0.0053

Uranus 97975-11-17 00:28 G 37506013.33 37506013.52 37506013.72 0.0136 0.0025

Uranus 97976-02-13 08:24 G 37506101.65 37506101.85 37506102.04 0.0136 0.0003

Uranus 97976-05-11 15:50 G 37506189.98 37506190.16 37506190.36 0.0136 0.0031

Uranus 97976-08-07 23:31 G 37506278.31 37506278.48 37506278.66 0.0136 0.0059

Uranus 97976-11-04 06:57 G 37506366.66 37506366.79 37506366.96 0.0136 0.0087

Uranus 97977-01-31 14:52 G 37506455.02 37506455.12 37506455.23 0.0136 0.0114

Jupiter 97978-01-17 03:21 G 37506805.54 37506805.64 37506805.75 0.0514 0.0416

Mars 97980-03-26 01:55 G 37507604.46 37507604.58 37507604.70 0.1954 0.1333

Earth 97981-01-22 04:33 G 37507906.61 37507906.69 37507906.76 0.2639 0.1832

Moon 97981-01-22 05:02 G 37507906.64 37507906.71 37507906.78 0.2636 0.1974 *

Mars 97982-12-26 22:48 G 37508610.34 37508610.45 37508610.57 0.1592 0.0207

Jupiter 97983-09-13 20:52 G 37508871.25 37508871.37 37508871.50 0.0511 0.0130

Moon 97984-07-24 15:35 G 37509186.03 37509186.15 37509186.27 0.2699 0.1697

Earth 97984-07-24 16:19 G 37509186.06 37509186.18 37509186.30 0.2693 0.1822 *

Mars 97984-12-01 00:00 G 37509315.45 37509315.50 37509315.55 0.1584 0.1415

Venus 97986-05-06 17:31 G 37509837.15 37509837.23 37509837.31 0.3634 0.2187

Saturn 97988-01-14 21:50 G 37510455.32 37510455.41 37510455.50 0.0284 0.0196

Moon 97988-01-16 05:31 G 37510456.67 37510456.73 37510456.78 0.2648 0.2234

Earth 97988-01-16 05:45 G 37510456.68 37510456.74 37510456.80 0.2642 0.2221 *

Saturn 97988-04-12 08:52 G 37510543.74 37510543.87 37510543.99 0.0283 0.0053

Saturn 97988-07-09 19:40 G 37510632.20 37510632.32 37510632.44 0.0282 0.0089

Saturn 97988-10-06 06:28 G 37510720.70 37510720.77 37510720.85 0.0281 0.0228

Mars 97989-08-15 17:31 G 37511034.07 37511034.23 37511034.40 0.1950 0.0166

Jupiter 97989-11-04 23:31 G 37511115.30 37511115.48 37511115.65 0.0514 0.0170

Venus 97991-11-20 08:24 G 37511860.75 37511860.85 37511860.95 0.3632 0.0343

Mars 97992-05-18 10:33 G 37512040.84 37512040.94 37512041.05 0.1595 0.0596

Mars 97994-04-23 11:31 G 37512745.89 37512745.98 37512746.07 0.1585 0.1021

Jupiter 97995-07-03 01:55 G 37513181.45 37513181.58 37513181.70 0.0512 0.0029

Venus 97997-06-04 23:16 G 37513884.38 37513884.47 37513884.56 0.3630 0.1518

Mars 97999-01-05 08:24 G 37514463.77 37514463.85 37514463.93 0.1945 0.1704

99TH MILLENNIUM CE

This is a list of transits of Mercury in the 99th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	**98001-01-17 23:02**	**G**	**37515207.35**	**37515207.46**	**37515207.56**	**0.2641**	**0.0783**	
Moon	**98001-01-17 23:16**	**G**	**37515207.37**	**37515207.47**	**37515207.57**	**0.2647**	**0.0784**	*
Jupiter	**98001-08-23 19:40**	**G**	**37515425.14**	**37515425.32**	**37515425.51**	**0.0514**	**0.0074**	
Mars	**98001-10-08 22:33**	**G**	**37515471.35**	**37515471.44**	**37515471.53**	**0.1598**	**0.0989**	
Venus	**98002-12-19 14:09**	**G**	**37515908.05**	**37515908.09**	**37515908.12**	**0.3628**	**0.3356**	
Mars	**98003-09-13 23:16**	**G**	**37516176.37**	**37516176.47**	**37516176.58**	**0.1587**	**0.0631**	
Saturn	**98004-07-17 08:09**	**G**	**37516483.67**	**37516483.84**	**37516484.02**	**0.0279**	**0.0116**	
Saturn	**98004-10-14 08:38**	**G**	**37516572.68**	**37516572.86**	**37516573.04**	**0.0281**	**0.0092**	
Jupiter	**98007-04-21 06:28**	**G**	**37517491.65**	**37517491.77**	**37517491.89**	**0.0512**	**0.0190**	
Jupiter	**98007-07-19 10:04**	**G**	**37517580.86**	**37517580.92**	**37517580.98**	**0.0511**	**0.0450**	
Mars	**98011-03-01 10:19**	**G**	**37518901.87**	**37518901.93**	**37518901.98**	**0.1601**	**0.1382**	
Venus	**98011-04-10 16:04**	**G**	**37518942.10**	**37518942.17**	**37518942.25**	**0.3743**	**0.3325**	
Mars	**98013-02-03 11:02**	**G**	**37519606.85**	**37519606.96**	**37519607.08**	**0.1590**	**0.0240**	
Jupiter	**98013-06-11 15:35**	**G**	**37519735.01**	**37519735.15**	**37519735.30**	**0.0513**	**0.0322**	
Earth	**98014-01-20 16:04**	**G**	**37519958.06**	**37519958.17**	**37519958.27**	**0.2640**	**0.0671**	
Moon	**98014-01-20 16:33**	**G**	**37519958.09**	**37519958.19**	**37519958.30**	**0.2643**	**0.0830**	*
Saturn	**98017-06-02 23:45**	**G**	**37521187.43**	**37521187.49**	**37521187.55**	**0.0285**	**0.0245**	
Moon	**98017-07-22 12:57**	**G**	**37521236.91**	**37521237.04**	**37521237.17**	**0.2697**	**0.1445**	
Earth	**98017-07-22 14:09**	**G**	**37521236.95**	**37521237.09**	**37521237.24**	**0.2692**	**0.1124**	*
Saturn	**98017-08-30 10:48**	**G**	**37521275.83**	**37521275.95**	**37521276.07**	**0.0283**	**0.0101**	

Uranus 98017-11-24 15:50 G 37521362.12 37521362.16 37521362.23 0.0142 0.0129

Saturn 98017-11-26 21:35 G 37521364.28 37521364.40 37521364.53 0.0282 0.0042

Uranus 98018-02-20 19:26 G 37521450.23 37521450.31 37521450.40 0.0142 0.0108

Saturn 98018-02-23 08:24 G 37521452.76 37521452.85 37521452.96 0.0281 0.0182

Uranus 98018-05-19 22:48 G 37521538.35 37521538.45 37521538.56 0.0142 0.0087

Uranus 98018-08-16 02:24 G 37521626.48 37521626.60 37521626.72 0.0142 0.0065

Uranus 98018-11-12 05:45 G 37521714.62 37521714.74 37521714.87 0.0142 0.0044

Jupiter 98019-02-07 11:16 G 37521801.88 37521801.97 37521802.07 0.0513 0.0348

Uranus 98019-02-08 09:07 G 37521802.75 37521802.88 37521803.01 0.0142 0.0023

Uranus 98019-05-07 12:43 G 37521890.90 37521891.03 37521891.16 0.0142 0.0004

Jupiter 98019-05-07 14:52 G 37521891.02 37521891.12 37521891.23 0.0511 0.0296 *

Uranus 98019-08-03 16:04 G 37521979.04 37521979.17 37521979.30 0.0142 0.0020

Mars 98019-09-25 02:52 G 37522031.52 37522031.62 37522031.73 0.1954 0.1458

Uranus 98019-10-30 19:26 G 37522067.19 37522067.31 37522067.44 0.0142 0.0041

Uranus 98020-01-26 22:48 G 37522155.34 37522155.45 37522155.57 0.0142 0.0063

Uranus 98020-04-24 02:24 G 37522243.49 37522243.60 37522243.70 0.0142 0.0084

Uranus 98020-07-21 05:45 G 37522331.66 37522331.74 37522331.83 0.0142 0.0105

Uranus 98020-10-17 09:21 G 37522419.83 37522419.89 37522419.95 0.0142 0.0127

Mars 98022-06-26 23:02 G 37523037.34 37523037.46 37523037.57 0.1592 0.0165

Mars 98024-06-01 00:00 G 37523742.45 37523742.50 37523742.54 0.1584 0.1459

Jupiter 98025-06-29 02:09 G 37524135.50 37524135.59 37524135.69 0.0514 0.0432

Earth 98027-01-23 09:21 G 37524708.82 37524708.89 37524708.95 0.2639 0.2131

Moon 98027-01-23 09:50 G 37524708.85 37524708.91 37524708.97 0.2636 0.2181 *

Mars 98029-02-13 18:28 G 37525461.10 37525461.27 37525461.43 0.1950 0.0065

Neptune 98029-12-10 20:24 G 37525761.33 37525761.35 37525761.41 0.0088 0.0083

Neptune 98030-03-08 21:50 G 37525849.36 37525849.41 37525849.49 0.0088 0.0076

Neptune 98030-06-04 23:02 G 37525937.39 37525937.46 37525937.55 0.0088 0.0069

Moon 98030-07-25 23:02 G 37525988.41 37525988.46 37525988.50 0.2700 0.2557

Earth 98030-07-25 23:16 G 37525988.41 37525988.47 37525988.52 0.2693 0.2509 *

Neptune 98030-09-01 00:28 G 37526025.43 37526025.52 37526025.62 0.0088 0.0062

Jupiter 98030-11-26 16:19 G 37526112.16 37526112.18 37526112.20 0.0514 0.0503

Neptune 98030-11-28 01:40 G 37526113.47 37526113.57 37526113.68 0.0088 0.0055

Jupiter 98031-02-23 19:55 G 37526201.21 37526201.33 37526201.46 0.0512 0.0143

Neptune 98031-02-24 02:52 G 37526201.52 37526201.62 37526201.74 0.0088 0.0048

Neptune 98031-05-23 04:19 G 37526289.56 37526289.68 37526289.80 0.0088 0.0041

Neptune 98031-08-19 05:31 G 37526377.61 37526377.73 37526377.85 0.0088 0.0034

Neptune 98031-11-15 06:43 G 37526465.66 37526465.78 37526465.91 0.0088 0.0027

Mars 98031-11-17 10:33 G 37526467.83 37526467.94 37526468.05 0.1595 0.0552

Neptune 98032-02-11 08:09 G 37526553.71 37526553.84 37526553.96 0.0088 0.0020

Neptune 98032-05-09 09:21 G 37526641.76 37526641.89 37526642.02 0.0088 0.0013

Neptune 98032-08-05 10:33 G 37526729.81 37526729.94 37526730.07 0.0088 0.0006

Neptune 98032-11-01 11:45 G 37526817.86 37526817.99 37526818.13 0.0088 0.0002

Neptune 98033-01-28 12:57 G 37526905.91 37526906.04 37526906.18 0.0088 0.0008

Neptune 98033-04-26 14:24 G 37526993.97 37526994.10 37526994.23 0.0088 0.0015

Neptune 98033-07-23 15:35 G 37527082.02 37527082.15 37527082.28 0.0088 0.0022

Neptune 98033-10-19 16:48 G 37527170.08 37527170.20 37527170.33 0.0088 0.0029

Mars 98033-10-22 11:45 G 37527172.90 37527172.99 37527173.07 0.1585 0.1069

Saturn 98033-12-04 05:02 G 37527215.58 37527215.71 37527215.86 0.0279 0.0188

Neptune 98034-01-15 18:00 G 37527258.13 37527258.25 37527258.38 0.0088 0.0036

Moon 98034-01-16 10:19 G 37527258.86 37527258.93 37527259.00 0.2648 0.1990

Earth 98034-01-16 10:33 G 37527258.87 37527258.94 37527259.01 0.2642 0.1928 *

Saturn 98034-03-03 05:16 G 37527304.53 37527304.72 37527304.91 0.0280 0.0019

Neptune 98034-04-13 19:11 G 37527346.19 37527346.30 37527346.42 0.0088 0.0043

Saturn 98034-05-31 05:31 G 37527393.63 37527393.73 37527393.85 0.0281 0.0228

Neptune 98034-07-10 20:24 G 37527434.25 37527434.35 37527434.47 0.0088 0.0050

Neptune 98034-10-06 21:35 G 37527522.31 37527522.40 37527522.51 0.0088 0.0057

Neptune 98035-01-02 22:48 G 37527610.38 37527610.45 37527610.56 0.0088 0.0064

Neptune 98035-04-01 00:00 G 37527698.44 37527698.50 37527698.59 0.0088 0.0071

Neptune 98035-06-28 01:26 G 37527786.51 37527786.56 37527786.63 0.0088 0.0077

Neptune 98035-09-24 02:52 G 37527874.59 37527874.62 37527874.66 0.0088 0.0084

Jupiter 98037-04-16 22:19 G 37528445.25 37528445.43 37528445.60 0.0514 0.0186

Venus 98037-05-28 00:00 G 37528486.47 37528486.50 37528486.53 0.3635 0.3384

Mars 98038-07-06 09:21 G 37528890.80 37528890.89 37528890.99 0.1945 0.1589

Mars 98041-04-08 22:19 G 37529898.34 37529898.43 37529898.53 0.1597 0.0949

Venus 98042-12-11 14:52 G 37530510.03 37530510.12 37530510.21 0.3633 0.1521

Jupiter 98042-12-13 00:43 G 37530511.41 37530511.53 37530511.66 0.0512 0.0019

Mars 98043-03-14 23:16 G 37530603.36 37530603.47 37530603.58 0.1587 0.0672

Saturn 98047-01-17 12:57 G 37532007.93 37532008.04 37532008.15 0.0284 0.0148

Earth 98047-01-19 03:35 G 37532009.55 37532009.65 37532009.76 0.2641 0.0491

Moon 98047-01-19 04:04 G 37532009.56 37532009.67 37532009.77 0.2647 0.0385 *

Saturn 98047-04-16 00:00 G 37532096.37 37532096.50 37532096.63 0.0283 0.0009

Saturn 98047-07-13 10:48 G 37532184.84 37532184.95 37532185.06 0.0282 0.0137

Saturn 98047-10-09 21:35 G 37532273.38 37532273.40 37532273.42 0.0280 0.0276

Venus 98048-06-26 05:45 G 37532533.64 37532533.74 37532533.84 0.3631 0.0334

Jupiter 98049-02-02 18:14 G 37532755.07 37532755.26 37532755.44 0.0514 0.0065

Mars 98050-08-30 10:04 G 37533328.86 37533328.92 37533328.99 0.1600 0.1343

Mars 98052-08-04 11:02 G 37534033.85 37534033.96 37534034.08 0.1589 0.0281

Venus 98054-01-09 20:38 G 37534557.28 37534557.36 37534557.44 0.3629 0.2175

Jupiter 98054-10-01 05:45 G 37534821.62 37534821.74 37534821.86 0.0512 0.0173

Jupiter 98054-12-29 09:21 G 37534910.84 37534910.89 37534910.93 0.0510 0.0466

Pluto 98055-08-17 17:02 G 37535142.15 37535142.21 37535142.31 0.0061 0.0055

Pluto 98055-11-13 18:14 G 37535230.15 37535230.26 37535230.41 0.0061 0.0045

Pluto 98056-02-09 19:26 G 37535318.18 37535318.31 37535318.48 0.0061 0.0035

Pluto 98056-05-07 21:07 G 37535406.21 37535406.38 37535406.55 0.0061 0.0024

Pluto 98056-08-03 22:04 G 37535494.25 37535494.42 37535494.62 0.0061 0.0014

Pluto 98056-10-30 23:31 G 37535582.30 37535582.48 37535582.67 0.0061 0.0004

Pluto 98057-01-27 00:43 G 37535670.35 37535670.53 37535670.72 0.0061 0.0007

Pluto 98057-04-25 01:55 G 37535758.41 37535758.58 37535758.77 0.0061 0.0017

Pluto 98057-07-22 02:52 G 37535846.47 37535846.62 37535846.80 0.0061 0.0028

Pluto 98057-10-18 04:19 G 37535934.54 37535934.68 37535934.84 0.0061 0.0038

Pluto 98058-01-14 05:45 G 37536022.63 37536022.74 37536022.85 0.0061 0.0049

Pluto 98058-04-12 06:28 G 37536110.75 37536110.77 37536110.84 0.0061 0.0060

Uranus 98058-12-19 00:57 G 37536361.49 37536361.54 37536361.60 0.0136 0.0130

Uranus 98059-03-17 08:38 G 37536449.74 37536449.86 37536450.00 0.0136 0.0102

Mars 98059-03-26 03:35 G 37536458.55 37536458.65 37536458.75 0.1954 0.1551

Uranus 98059-06-13 16:19 G 37536538.03 37536538.18 37536538.36 0.0136 0.0074

Uranus 98059-09-10 00:14 G 37536626.33 37536626.51 37536626.70 0.0136 0.0045

Uranus 98059-12-07 07:55 G 37536714.64 37536714.83 37536715.03 0.0136 0.0017

Earth 98060-01-21 20:52 G 37536760.27 37536760.37 37536760.47 0.2640 0.0972

Moon 98060-01-21 21:21 G 37536760.29 37536760.39 37536760.49 0.2641 0.1017 *

Uranus 98060-03-04 15:35 G 37536802.96 37536803.15 37536803.35 0.0136 0.0011

Uranus 98060-05-31 23:16 G 37536891.29 37536891.47 37536891.66 0.0136 0.0039

Uranus 98060-08-28 06:43 G 37536979.62 37536979.78 37536979.96 0.0136 0.0067

Jupiter 98060-11-21 14:38 G 37537064.96 37537065.11 37537065.26 0.0513 0.0304

Uranus 98060-11-24 14:24 G 37537067.97 37537068.10 37537068.25 0.0136 0.0095

Uranus 98061-02-20 22:04 G 37537156.35 37537156.42 37537156.51 0.0136 0.0122

Mars 98061-12-25 22:48 G 37537464.33 37537464.45 37537464.57 0.1592 0.0116

Venus 98062-05-01 05:16 G 37537590.60 37537590.72 37537590.83 0.3741 0.2700

Saturn 98063-04-23 01:26 G 37537947.51 37537947.56 37537947.63 0.0278 0.0262

Saturn 98063-07-21 01:40 G 37538036.38 37538036.57 37538036.76 0.0279 0.0057

Moon 98063-07-23 19:55 G 37538039.17 37538039.33 37538039.49 0.2697 0.0507

Earth 98063-07-23 21:07 G 37538039.23 37538039.38 37538039.54 0.2692 0.0441 *

Saturn 98063-10-18 01:55 G 37538125.42 37538125.58 37538125.74 0.0281 0.0151

Mars 98063-12-01 00:00 G 37538169.46 37538169.50 37538169.53 0.1584 0.1503

Jupiter 98066-07-20 10:19 G 37539131.84 37539131.93 37539132.03 0.0513 0.0336

Jupiter 98066-10-17 13:55 G 37539220.98 37539221.08 37539221.18 0.0511 0.0306

Mars 98068-08-14 18:57 G 37539888.13 37539888.29 37539888.46 0.1950 0.0069

Mars 98071-05-18 10:33 G 37540894.83 37540894.94 37540895.05 0.1595 0.0510

Jupiter 98072-12-09 02:09 G 37541465.51 37541465.59 37541465.66 0.0515 0.0463

Earth 98073-01-23 13:55 G 37541511.04 37541511.08 37541511.12 0.2639 0.2429

Moon 98073-01-23 14:38 G 37541511.09 37541511.11 37541511.13 0.2636 0.2580 *

Mars 98073-04-22 11:31 G 37541599.90 37541599.98 37541600.07 0.1585 0.1110

Saturn 98076-06-05 14:24 G 37542740.01 37542740.10 37542740.19 0.0285 0.0201

Saturn 98076-09-02 01:26 G 37542828.43 37542828.56 37542828.69 0.0283 0.0057

Saturn 98076-11-29 12:14 G 37542916.89 37542917.01 37542917.14 0.0282 0.0085

Saturn 98077-02-25 23:16 G 37543005.39 37543005.47 37543005.54 0.0281 0.0225

Mars 98078-01-04 10:33 G 37543317.84 37543317.94 37543318.05 0.1946 0.1466

Jupiter 98078-05-08 15:21 G 37543442.11 37543442.14 37543442.17 0.0514 0.0493

Jupiter 98078-08-05 18:57 G 37543531.17 37543531.29 37543531.41 0.0512 0.0151

Moon 98080-01-17 15:21 G 37544061.05 37544061.14 37544061.22 0.2648 0.1646

Earth 98080-01-17 15:21 G 37544061.05 37544061.14 37544061.22 0.2642 0.1637 *

Mars 98080-10-07 22:19 G 37544325.34 37544325.43 37544325.53 0.1597 0.0904

Mars 98082-09-12 23:16 G 37545030.37 37545030.47 37545030.58 0.1587 0.0718

Jupiter 98084-09-26 21:35 G 37545775.23 37545775.40 37545775.57 0.0514 0.0208

Mars 98090-02-28 10:04 G 37547755.86 37547755.92 37547755.99 0.1600 0.1302

Jupiter 98090-05-25 00:00 G 37547841.37 37547841.50 37547841.63 0.0512 0.0003

Mars 98092-02-03 11:02 G 37548460.85 37548460.96 37548461.08 0.1589 0.0326

Saturn 98092-12-06 22:04 G 37548768.25 37548768.42 37548768.59 0.0279 0.0133

Earth 98093-01-19 08:24 G 37548811.74 37548811.85 37548811.96 0.2641 0.0188

Moon 98093-01-19 08:52 G 37548811.76 37548811.87 37548811.97 0.2646 0.0189 *

Saturn 98093-03-05 22:04 G 37548857.24 37548857.42 37548857.61 0.0280 0.0075

Venus 98094-01-01 21:21 G 37549159.32 37549159.39 37549159.45 0.3635 0.2717

Jupiter 98096-07-15 17:31 G 37550085.05 37550085.23 37550085.42 0.0513 0.0040

Mars 98098-09-24 04:33 G 37550885.61 37550885.69 37550885.78 0.1954 0.1666

Venus 98099-07-18 12:14 G 37551182.91 37551183.01 37551183.10 0.3633 0.0864

Mars 98101-06-26 22:48 G 37551891.33 37551891.45 37551891.57 0.1592 0.0072

Uranus 98101-12-15 23:31 G 37552063.42 37552063.48 37552063.55 0.0142 0.0122

Uranus 98102-03-14 03:07 G 37552151.54 37552151.63 37552151.72 0.0142 0.0101

Jupiter 98102-03-14 04:48 G 37552151.58 37552151.70 37552151.82 0.0512 0.0160 *

Uranus 98102-06-10 06:28 G 37552239.67 37552239.77 37552239.88 0.0142 0.0080

Jupiter 98102-06-11 08:24 G 37552240.81 37552240.85 37552240.89 0.0510 0.0478

Uranus 98102-09-06 09:50 G 37552327.80 37552327.91 37552328.03 0.0142 0.0059

Uranus 98102-12-03 13:11 G 37552415.93 37552416.05 37552416.18 0.0142 0.0038

Uranus 98103-03-01 16:48 G 37552504.07 37552504.20 37552504.33 0.0142 0.0016

Uranus 98103-05-28 20:09 G 37552592.21 37552592.34 37552592.47 0.0142 0.0006

Mars 98103-06-02 00:00 G 37552596.47 37552596.50 37552596.52 0.1583 0.1550

Uranus 98103-08-24 23:31 G 37552680.36 37552680.48 37552680.62 0.0142 0.0027

Uranus 98103-11-21 03:07 G 37552768.51 37552768.63 37552768.75 0.0142 0.0048

Uranus 98104-02-17 06:28 G 37552856.66 37552856.77 37552856.89 0.0142 0.0069

Uranus 98104-05-15 09:50 G 37552944.82 37552944.91 37552945.02 0.0142 0.0091

Uranus 98104-08-11 13:11 G 37553032.98 37553033.05 37553033.14 0.0142 0.0113

Uranus 98104-11-07 16:48 G 37553121.16 37553121.20 37553121.25 0.0142 0.0134

Venus 98105-02-01 03:07 G 37553206.53 37553206.63 37553206.72 0.3631 0.1002

Saturn 98105-10-24 16:19 G 37553472.12 37553472.18 37553472.23 0.0285 0.0253

Saturn 98106-01-21 03:21 G 37553560.52 37553560.64 37553560.76 0.0284 0.0108

Earth 98106-01-23 01:26 G 37553562.47 37553562.56 37553562.66 0.2639 0.1267

Moon 98106-01-23 02:09 G 37553562.50 37553562.59 37553562.68 0.2639 0.1430 *

Saturn 98106-04-19 14:09 G 37553648.96 37553649.09 37553649.22 0.0283 0.0037

Saturn 98106-07-17 01:11 G 37553737.45 37553737.55 37553737.65 0.0282 0.0177

Mars 98108-02-14 20:09 G 37554315.18 37554315.34 37554315.51 0.1950 0.0162

Jupiter 98108-05-04 13:11 G 37554394.90 37554395.05 37554395.21 0.0514 0.0291

Moon 98109-07-25 03:07 G 37554841.47 37554841.63 37554841.79 0.2697 0.0050

Earth 98109-07-25 04:04 G 37554841.51 37554841.67 37554841.83 0.2692 0.0243 *

Venus 98110-08-17 17:45 G 37555230.18 37555230.24 37555230.30 0.3629 0.2829

Mars 98110-11-17 10:33 G 37555321.83 37555321.94 37555322.05 0.1594 0.0466

Mars 98112-10-22 11:31 G 37556026.90 37556026.98 37556027.06 0.1585 0.1153

Neptune 98113-11-19 16:04 G 37556420.10 37556420.17 37556420.26 0.0090 0.0082

Jupiter 98113-12-31 09:50 G 37556461.81 37556461.91 37556462.01 0.0512 0.0314

Neptune 98114-02-15 19:55 G 37556508.22 37556508.33 37556508.46 0.0090 0.0071

Jupiter 98114-03-30 13:26 G 37556550.96 37556551.06 37556551.16 0.0510 0.0326

Neptune 98114-05-14 23:45 G 37556596.35 37556596.49 37556596.64 0.0090 0.0060

Neptune 98114-08-11 03:35 G 37556684.49 37556684.65 37556684.82 0.0090 0.0049

Neptune 98114-11-07 07:26 G 37556772.63 37556772.81 37556772.99 0.0090 0.0038

Neptune 98115-02-03 11:16 G 37556860.78 37556860.97 37556861.16 0.0090 0.0027

Neptune 98115-05-02 15:07 G 37556948.93 37556949.13 37556949.32 0.0090 0.0016

Neptune 98115-07-29 18:43 G 37557037.09 37557037.28 37557037.48 0.0090 0.0006

Neptune 98115-10-25 22:33 G 37557125.25 37557125.44 37557125.64 0.0090 0.0006

Neptune 98116-01-22 02:24 G 37557213.41 37557213.60 37557213.79 0.0090 0.0017

Neptune 98116-04-19 06:14 G 37557301.57 37557301.76 37557301.95 0.0090 0.0028

Neptune 98116-07-16 09:50 G 37557389.74 37557389.91 37557390.09 0.0090 0.0039

Neptune 98116-10-12 13:40 G 37557477.91 37557478.07 37557478.24 0.0090 0.0050

Neptune 98117-01-08 17:16 G 37557566.09 37557566.22 37557566.37 0.0090 0.0061

Neptune 98117-04-06 21:07 G 37557654.27 37557654.38 37557654.50 0.0090 0.0072

Neptune 98117-07-04 00:43 G 37557742.47 37557742.53 37557742.62 0.0090 0.0083

Mars 98117-07-06 11:02 G 37557744.85 37557744.96 37557745.08 0.1946 0.1382

Venus 98118-12-07 08:38 G 37558263.70 37558263.86 37558264.03 0.3742 0.0037

Mars 98120-04-08 22:19 G 37558752.33 37558752.43 37558752.53 0.1597 0.0864

Jupiter 98120-05-22 01:11 G 37558795.49 37558795.55 37558795.61 0.0515 0.0484

Mars 98122-03-14 23:16 G 37559457.37 37559457.47 37559457.57 0.1587 0.0761

Saturn 98122-04-26 18:00 G 37559500.13 37559500.25 37559500.38 0.0278 0.0210

Saturn 98122-07-24 18:14 G 37559589.07 37559589.26 37559589.45 0.0279 0.0005

Saturn 98122-10-21 18:14 G 37559678.14 37559678.26 37559678.40 0.0280 0.0203

Jupiter 98125-10-19 14:38 G 37560772.06 37560772.11 37560772.15 0.0513 0.0476

Jupiter 98126-01-16 18:14 G 37560861.14 37560861.26 37560861.38 0.0511 0.0166

Moon 98126-01-18 20:09 G 37560863.24 37560863.34 37560863.43 0.2648 0.1324

Earth 98126-01-18 19:55 G 37560863.24 37560863.33 37560863.43 0.2642 0.1348 *

Mars 98129-08-30 10:04 G 37562182.85 37562182.92 37562182.99 0.1600 0.1259

Mars 98131-08-05 11:02 G 37562887.85 37562887.96 37562888.07 0.1589 0.0366

Jupiter 98132-03-09 21:21 G 37563105.23 37563105.39 37563105.56 0.0514 0.0240

Saturn 98135-06-10 04:33 G 37564292.59 37564292.69 37564292.80 0.0285 0.0164

Saturn 98135-09-06 15:35 G 37564381.02 37564381.15 37564381.28 0.0283 0.0020

Saturn 98135-12-04 02:24 G 37564469.49 37564469.60 37564469.72 0.0282 0.0123

Saturn 98136-03-01 13:26 G 37564558.02 37564558.06 37564558.10 0.0281 0.0263

Jupiter 98137-11-04 23:02 G 37565171.34 37565171.46 37565171.59 0.0512 0.0014

Mars 98138-03-26 05:31 G 37565312.67 37565312.73 37565312.80 0.1955 0.1784

Earth 98139-01-21 13:11 G 37565613.94 37565614.05 37565614.16 0.2640 0.0123

Moon 98139-01-21 13:40 G 37565613.96 37565614.07 37565614.17 0.2645 0.0212 *

Mars 98140-12-25 22:48 G 37566318.33 37566318.45 37566318.57 0.1592 0.0026

Uranus 98143-01-09 09:07 G 37567062.78 37567062.88 37567062.97 0.0136 0.0120

Uranus 98143-04-07 16:48 G 37567151.05 37567151.20 37567151.34 0.0136 0.0092

Uranus 98143-07-05 00:28 G 37567239.35 37567239.52 37567239.69 0.0136 0.0063

Uranus 98143-10-01 08:09 G 37567327.65 37567327.84 37567328.03 0.0136 0.0035

Jupiter 98143-12-27 17:02 G 37567415.02 37567415.21 37567415.40 0.0514 0.0014

Uranus 98143-12-28 15:50 G 37567415.97 37567416.16 37567416.36 0.0136 0.0007

Uranus 98144-03-25 23:31 G 37567504.29 37567504.48 37567504.67 0.0136 0.0021

Uranus 98144-06-22 06:57 G 37567592.62 37567592.79 37567592.98 0.0136 0.0049

Uranus 98144-09-18 14:52 G 37567680.96 37567681.12 37567681.28 0.0136 0.0076

Uranus 98144-12-15 22:19 G 37567769.31 37567769.43 37567769.56 0.0136 0.0104

Uranus 98145-03-14 05:45 G 37567857.71 37567857.74 37567857.80 0.0136 0.0132

Mars 98147-08-15 21:07 G 37568742.22 37568742.38 37568742.55 0.1950 0.0273

Pluto 98149-06-02 23:31 G 37569399.42 37569399.48 37569399.54 0.0084 0.0075

Jupiter 98149-08-24 04:04 G 37569481.55 37569481.67 37569481.79 0.0513 0.0144

Pluto 98149-08-30 00:28 G 37569487.43 37569487.52 37569487.63 0.0084 0.0056

Jupiter 98149-11-21 07:40 G 37569570.79 37569570.82 37569570.85 0.0511 0.0495

Pluto 98149-11-26 01:55 G 37569575.46 37569575.58 37569575.71 0.0083 0.0036

Pluto 98150-02-22 03:07 G 37569663.50 37569663.63 37569663.77 0.0083 0.0017

Mars 98150-05-18 10:33 G 37569748.83 37569748.94 37569749.05 0.1594 0.0424

Pluto 98150-05-21 04:33 G 37569751.55 37569751.69 37569751.82 0.0083 0.0003

Venus 98150-08-09 18:28 G 37569832.19 37569832.27 37569832.36 0.3634 0.2056

Pluto 98150-08-17 05:45 G 37569839.61 37569839.74 37569839.87 0.0083 0.0022

Pluto 98150-11-13 06:43 G 37569927.67 37569927.78 37569927.91 0.0083 0.0042

Pluto 98151-02-09 08:09 G 37570015.75 37570015.84 37570015.94 0.0083 0.0061

Pluto 98151-05-08 09:21 G 37570103.87 37570103.89 37570103.93 0.0083 0.0080

Saturn 98151-12-11 14:24 G 37570320.92 37570321.10 37570321.28 0.0279 0.0082

Earth 98152-01-24 06:14 G 37570364.68 37570364.76 37570364.85 0.2639 0.1564

Moon 98152-01-24 06:57 G 37570364.71 37570364.79 37570364.88 0.2639 0.1629 *

Saturn 98152-03-09 14:24 G 37570409.94 37570410.10 37570410.28 0.0280 0.0125

Mars 98152-04-22 11:31 G 37570453.91 37570453.98 37570454.06 0.1585 0.1201

Moon 98155-07-26 10:19 G 37571643.78 37571643.93 37571644.08 0.2698 0.0917

Earth 98155-07-26 11:02 G 37571643.81 37571643.96 37571644.11 0.2692 0.0931 *

Jupiter 98155-10-15 13:11 G 37571724.89 37571725.05 37571725.21 0.0513 0.0258

Venus 98156-02-23 09:21 G 37571855.79 37571855.89 37571855.99 0.3632 0.0225

Mars 98157-01-04 12:14 G 37572171.88 37572172.01 37572172.14 0.1946 0.1258

Moon 98159-01-17 07:11 G 37572914.77 37572914.80 37572914.83 0.2648 0.2519

Earth 98159-01-17 07:40 G 37572914.79 37572914.82 37572914.85 0.2643 0.2498 *

Mars 98159-10-08 22:19 G 37573179.33 37573179.43 37573179.53 0.1597 0.0822

Jupiter 98161-06-12 09:07 G 37573791.78 37573791.88 37573791.98 0.0513 0.0299

Venus 98161-09-08 00:14 G 37573879.42 37573879.51 37573879.60 0.3630 0.1639

Jupiter 98161-09-09 12:43 G 37573880.93 37573881.03 37573881.12 0.0511 0.0341

Mars 98161-09-12 23:16 G 37573884.37 37573884.47 37573884.57 0.1587 0.0805

Saturn 98164-10-27 06:14 G 37575024.68 37575024.76 37575024.84 0.0285 0.0217

Saturn 98165-01-23 17:16 G 37575113.10 37575113.22 37575113.35 0.0284 0.0071

Saturn 98165-04-22 04:19 G 37575201.55 37575201.68 37575201.80 0.0283 0.0072

Saturn 98165-07-19 15:07 G 37575290.05 37575290.13 37575290.22 0.0282 0.0214

Venus 98167-03-24 15:07 G 37575903.10 37575903.13 37575903.15 0.3628 0.3474

Jupiter 98167-11-02 00:00 G 37576125.46 37576125.50 37576125.54 0.0515 0.0500

Mars 98169-02-28 10:04 G 37576609.85 37576609.92 37576609.99 0.1600 0.1218

Mars 98171-02-03 11:02 G 37577314.85 37577314.96 37577315.07 0.1589 0.0410

Earth 98172-01-20 00:43 G 37577665.43 37577665.53 37577665.63 0.2641 0.1052

Moon 98172-01-20 00:43 G 37577665.44 37577665.53 37577665.63 0.2648 0.1075 *

Jupiter 98173-03-31 14:09 G 37578102.03 37578102.09 37578102.15 0.0513 0.0452

Jupiter 98173-06-28 17:45 G 37578191.12 37578191.24 37578191.36 0.0511 0.0189

Venus 98175-07-14 12:14 G 37578936.90 37578937.01 37578937.12 0.3743 0.2756

Mars 98177-09-24 06:28 G 37579739.73 37579739.77 37579739.81 0.1954 0.1887

Jupiter 98179-08-20 20:24 G 37580435.20 37580435.35 37580435.52 0.0515 0.0261

Mars 98180-06-25 22:48 G 37580745.33 37580745.45 37580745.56 0.1592 0.0036

Saturn 98181-04-29 10:33 G 37581052.79 37581052.94 37581053.10 0.0278 0.0157

Saturn 98181-07-27 10:48 G 37581141.76 37581141.95 37581142.14 0.0279 0.0048

Saturn 98181-10-24 10:48 G 37581230.88 37581230.95 37581231.03 0.0280 0.0255

Earth 98185-01-21 17:45 G 37582416.14 37582416.24 37582416.35 0.2640 0.0406

Moon 98185-01-21 18:28 G 37582416.16 37582416.27 37582416.37 0.2643 0.0505 *

Jupiter 98185-04-16 22:19 G 37582501.31 37582501.43 37582501.56 0.0511 0.0032

Uranus 98185-10-09 03:21 G 37582676.62 37582676.64 37582676.68 0.0142 0.0138

Uranus 98186-01-05 06:43 G 37582764.72 37582764.78 37582764.86 0.0142 0.0117

Uranus 98186-04-03 10:19 G 37582852.84 37582852.93 37582853.03 0.0142 0.0095

Uranus 98186-06-30 13:40 G 37582940.96 37582941.07 37582941.19 0.0142 0.0075

Uranus 98186-09-26 17:16 G 37583029.10 37583029.22 37583029.34 0.0142 0.0053

Uranus 98186-12-23 20:38 G 37583117.23 37583117.36 37583117.49 0.0142 0.0032

Mars 98187-02-13 21:50 G 37583169.24 37583169.41 37583169.57 0.1951 0.0372

Uranus 98187-03-22 00:00 G 37583205.37 37583205.50 37583205.63 0.0142 0.0011

Uranus 98187-06-18 03:35 G 37583293.51 37583293.65 37583293.78 0.0142 0.0011

Uranus 98187-09-14 06:57 G 37583381.66 37583381.79 37583381.92 0.0142 0.0032

Uranus 98187-12-11 10:19 G 37583469.81 37583469.93 37583470.05 0.0142 0.0053

Uranus 98188-03-08 13:40 G 37583557.96 37583558.07 37583558.19 0.0142 0.0074

Uranus 98188-06-04 17:16 G 37583646.12 37583646.22 37583646.31 0.0142 0.0096

Moon 98188-07-23 07:11 G 37583694.72 37583694.80 37583694.88 0.2694 0.2287

Earth 98188-07-23 08:52 G 37583694.76 37583694.87 37583694.97 0.2691 0.2050 *

Uranus 98188-08-31 20:24 G 37583734.29 37583734.35 37583734.44 0.0142 0.0118

Uranus 98188-11-28 00:00 G 37583822.48 37583822.50 37583822.53 0.0142 0.0139

Mars 98189-11-16 10:33 G 37584175.82 37584175.94 37584176.05 0.1594 0.0382

Jupiter 98191-06-08 16:48 G 37584745.02 37584745.20 37584745.39 0.0514 0.0022

Mars 98191-10-22 11:31 G 37584880.91 37584880.98 37584881.05 0.1585 0.1244

Saturn 98194-03-16 07:11 G 37585756.78 37585756.80 37585756.84 0.0286 0.0277

Neptune 98194-06-11 18:57 G 37585844.29 37585844.29 37585844.31 0.0088 0.0087

Saturn 98194-06-12 18:28 G 37585845.15 37585845.27 37585845.38 0.0285 0.0130

Neptune 98194-09-07 20:24 G 37585932.30 37585932.35 37585932.40 0.0088 0.0080

Saturn 98194-09-09 05:31 G 37585933.60 37585933.73 37585933.86 0.0284 0.0016

Neptune 98194-12-04 21:35 G 37586020.33 37586020.40 37586020.47 0.0088 0.0073

Saturn 98194-12-06 16:19 G 37586022.08 37586022.18 37586022.29 0.0282 0.0157

Neptune 98195-03-02 22:33 G 37586108.37 37586108.44 37586108.54 0.0088 0.0067

Neptune 98195-05-29 23:45 G 37586196.41 37586196.49 37586196.60 0.0088 0.0060

Neptune 98195-08-26 01:11 G 37586284.45 37586284.55 37586284.66 0.0088 0.0053

Neptune 98195-11-22 02:24 G 37586372.50 37586372.60 37586372.72 0.0088 0.0046

Neptune 98196-02-18 03:35 G 37586460.54 37586460.65 37586460.78 0.0088 0.0039

Neptune 98196-05-16 05:02 G 37586548.59 37586548.71 37586548.84 0.0088 0.0032

Mars 98196-07-05 13:26 G 37586598.92 37586599.06 37586599.19 0.1946 0.1141

Neptune 98196-08-12 06:14 G 37586636.64 37586636.76 37586636.89 0.0088 0.0025

Neptune 98196-11-08 07:40 G 37586724.69 37586724.82 37586724.95 0.0088 0.0018

Jupiter 98197-02-03 03:21 G 37586811.52 37586811.64 37586811.76 0.0512 0.0129

Neptune 98197-02-04 08:52 G 37586812.74 37586812.87 37586813.00 0.0088 0.0011

Jupiter 98197-05-03 06:43 G 37586900.78 37586900.78 37586900.79 0.0510 0.0509

Neptune 98197-05-03 10:04 G 37586900.79 37586900.92 37586901.05 0.0088 0.0004 *

Neptune 98197-07-30 11:16 G 37586988.84 37586988.97 37586989.11 0.0088 0.0004

Neptune 98197-10-26 12:43 G 37587076.90 37587077.03 37587077.16 0.0088 0.0010

Neptune 98198-01-22 13:55 G 37587164.95 37587165.08 37587165.21 0.0088 0.0017

Earth 98198-01-24 11:02 G 37587166.89 37587166.96 37587167.04 0.2639 0.1858

Moon 98198-01-24 11:45 G 37587166.92 37587166.99 37587167.06 0.2639 0.2004 *

Neptune 98198-04-20 15:07 G 37587253.01 37587253.13 37587253.26 0.0088 0.0024

Neptune 98198-07-17 16:19 G 37587341.06 37587341.18 37587341.31 0.0088 0.0031

Neptune 98198-10-13 17:45 G 37587429.12 37587429.24 37587429.36 0.0088 0.0038

Neptune 98199-01-09 18:57 G 37587517.18 37587517.29 37587517.40 0.0088 0.0045

Neptune 98199-04-07 20:09 G 37587605.24 37587605.34 37587605.45 0.0088 0.0052

Mars 98199-04-08 22:19 G 37587606.33 37587606.43 37587606.53 0.1597 0.0776

Neptune 98199-07-04 21:21 G 37587693.30 37587693.39 37587693.49 0.0088 0.0059

Neptune 98199-09-30 22:33 G 37587781.36 37587781.44 37587781.53 0.0088 0.0066

Neptune 98199-12-27 23:45 G 37587869.43 37587869.49 37587869.57 0.0088 0.0073

Neptune 98200-03-26 00:57 G 37587957.50 37587957.54 37587957.61 0.0088 0.0080

Neptune 98200-06-22 02:09 G 37588045.59 37588045.59 37588045.62 0.0088 0.0087

Mars 98201-03-14 23:16 G 37588311.37 37588311.47 37588311.57 0.1587 0.0851

Moon 98201-07-27 17:31 G 37588446.10 37588446.23 37588446.36 0.2699 0.1503

Earth 98201-07-27 18:00 G 37588446.12 37588446.25 37588446.37 0.2692 0.1614 *

Venus 98201-09-01 00:57 G 37588481.50 37588481.54 37588481.58 0.3636 0.3251

Jupiter 98203-03-28 12:28 G 37589054.86 37589055.02 37589055.19 0.0513 0.0233

Moon 98205-01-18 12:14 G 37589716.96 37589717.01 37589717.06 0.2649 0.2310

Earth 98205-01-18 12:28 G 37589716.96 37589717.02 37589717.07 0.2642 0.2204 *

Venus 98207-03-17 15:50 G 37590505.07 37590505.16 37590505.25 0.3634 0.1393

Mars 98208-08-30 10:04 G 37591036.84 37591036.92 37591036.99 0.1600 0.1178

Jupiter 98208-11-23 08:24 G 37591121.74 37591121.85 37591121.95 0.0513 0.0284

Jupiter 98209-02-20 11:45 G 37591210.91 37591210.99 37591211.09 0.0511 0.0358

Mars 98210-08-05 11:02 G 37591741.85 37591741.96 37591742.07 0.1589 0.0456

Saturn 98210-09-17 06:43 G 37591784.69 37591784.78 37591784.89 0.0278 0.0235

Saturn 98210-12-15 06:57 G 37591873.60 37591873.79 37591873.98 0.0279 0.0031

Saturn 98211-03-14 06:57 G 37591962.64 37591962.79 37591962.94 0.0280 0.0176

Venus 98212-09-30 06:43 G 37592528.68 37592528.78 37592528.88 0.3632 0.0459

Jupiter 98215-01-14 08:38 G 37593364.80 37593364.86 37593364.93 0.0513 0.0477

Mars 98218-01-20 21:50 G 37594467.39 37594467.41 37594467.43 0.1603 0.1576

Earth 98218-01-21 05:31 G 37594467.62 37594467.73 37594467.83 0.2641 0.0764

Moon 98218-01-21 05:31 G 37594467.63 37594467.73 37594467.84 0.2648 0.0703 *

Venus 98218-04-15 21:35 G 37594552.32 37594552.40 37594552.47 0.3630 0.2293

Mars 98219-12-26 22:33 G 37595172.33 37595172.44 37595172.56 0.1592 0.0086

Jupiter 98220-09-11 13:26 G 37595431.99 37595432.06 37595432.12 0.0513 0.0437

Jupiter 98220-12-09 17:02 G 37595521.09 37595521.21 37595521.32 0.0511 0.0205

Saturn 98223-10-31 19:55 G 37596577.24 37596577.33 37596577.43 0.0285 0.0183

Saturn 98224-01-28 07:11 G 37596665.67 37596665.80 37596665.92 0.0284 0.0038

Saturn 98224-04-25 18:00 G 37596754.13 37596754.25 37596754.37 0.0283 0.0107

Saturn 98224-07-23 05:02 G 37596842.65 37596842.71 37596842.77 0.0282 0.0248

Venus 98226-08-05 01:11 G 37597585.47 37597585.55 37597585.63 0.3740 0.3214

Mars 98226-08-15 23:02 G 37597596.30 37597596.46 37597596.62 0.1951 0.0497

Uranus 98227-01-30 16:04 G 37597764.07 37597764.17 37597764.29 0.0136 0.0112

Jupiter 98227-01-31 19:11 G 37597765.15 37597765.30 37597765.46 0.0515 0.0275

Uranus 98227-04-28 23:45 G 37597852.35 37597852.49 37597852.65 0.0136 0.0084

Uranus 98227-07-26 07:26 G 37597940.64 37597940.81 37597941.00 0.0136 0.0056

Uranus 98227-10-22 15:21 G 37598028.95 37598029.14 37598029.33 0.0136 0.0028

Uranus 98228-01-18 23:02 G 37598117.27 37598117.46 37598117.66 0.0136 0.0002

Uranus 98228-04-16 06:43 G 37598205.59 37598205.78 37598205.97 0.0136 0.0028

Uranus 98228-07-13 14:24 G 37598293.92 37598294.10 37598294.28 0.0136 0.0056

Uranus 98228-10-09 21:50 G 37598382.27 37598382.41 37598382.57 0.0136 0.0084

Uranus 98229-01-06 05:45 G 37598470.63 37598470.74 37598470.85 0.0136 0.0111

Mars 98229-05-18 10:33 G 37598602.82 37598602.94 37598603.05 0.1594 0.0341

Earth 98231-01-23 22:33 G 37599218.34 37599218.44 37599218.55 0.2640 0.0693

Moon 98231-01-23 23:16 G 37599218.36 37599218.47 37599218.57 0.2643 0.0773 *

Mars 98231-04-23 11:31 G 37599307.91 37599307.98 37599308.04 0.1585 0.1288

Jupiter 98232-09-27 22:04 G 37599831.29 37599831.42 37599831.55 0.0511 0.0053

Moon 98234-07-25 14:24 G 37600496.97 37600497.10 37600497.23 0.2695 0.1525

Earth 98234-07-25 15:50 G 37600497.02 37600497.16 37600497.30 0.2691 0.1355 *

Mars 98236-01-05 13:55 G 37601025.94 37601026.08 37601026.22 0.1946 0.1050

Mars 98238-10-08 22:19 G 37602033.32 37602033.43 37602033.53 0.1597 0.0737

Jupiter 98238-11-19 15:50 G 37602074.97 37602075.16 37602075.35 0.0514 0.0035

Saturn 98240-05-03 03:21 G 37602605.46 37602605.64 37602605.82 0.0278 0.0103

Saturn 98240-07-31 03:21 G 37602694.46 37602694.64 37602694.82 0.0279 0.0102

Mars 98240-09-12 23:16 G 37602738.37 37602738.47 37602738.56 0.1587 0.0896

Earth 98244-01-26 15:50 G 37603969.10 37603969.16 37603969.22 0.2639 0.2155

Moon 98244-01-26 16:19 G 37603969.13 37603969.18 37603969.24 0.2637 0.2242 *

Jupiter 98244-07-17 02:38 G 37604141.49 37604141.61 37604141.74 0.0512 0.0111

Moon 98247-07-29 00:14 G 37605248.43 37605248.51 37605248.60 0.2700 0.2278

Earth 98247-07-29 00:43 G 37605248.45 37605248.53 37605248.61 0.2693 0.2287 *

Mars 98248-02-29 10:04 G 37605463.84 37605463.92 37605464.00 0.1600 0.1134

Mars 98250-02-03 11:02 G 37606168.85 37606168.96 37606169.07 0.1589 0.0500

Jupiter 98250-09-07 12:14 G 37606384.84 37606385.01 37606385.18 0.0514 0.0205

Moon 98251-01-19 16:48 G 37606519.13 37606519.20 37606519.28 0.2649 0.1888

Earth 98251-01-19 17:02 G 37606519.14 37606519.21 37606519.29 0.2642 0.1911 *

Saturn 98253-03-19 21:07 G 37607309.32 37607309.38 37607309.45 0.0286 0.0242

Saturn 98253-06-16 08:09 G 37607397.72 37607397.84 37607397.97 0.0285 0.0096

Saturn 98253-09-12 19:11 G 37607486.18 37607486.30 37607486.43 0.0284 0.0050

Saturn 98253-12-10 06:14 G 37607574.67 37607574.76 37607574.86 0.0282 0.0192

Jupiter 98256-05-05 07:40 G 37608451.71 37608451.82 37608451.92 0.0512 0.0268

Jupiter 98256-08-02 11:02 G 37608540.88 37608540.96 37608541.05 0.0511 0.0372

Mars 98257-07-21 21:50 G 37608894.38 37608894.41 37608894.44 0.1603 0.1533

Venus 98258-04-07 22:19 G 37609154.36 37609154.43 37609154.50 0.3635 0.2593

Mars 98259-06-26 22:48 G 37609599.33 37609599.45 37609599.56 0.1591 0.0116

Jupiter 98262-06-26 07:55 G 37610694.75 37610694.83 37610694.92 0.0513 0.0454

Venus 98263-10-22 12:57 G 37611177.95 37611178.04 37611178.14 0.3633 0.0760

Earth 98264-01-22 10:04 G 37611269.82 37611269.92 37611270.03 0.2641 0.0473

Moon 98264-01-22 10:33 G 37611269.83 37611269.94 37611270.04 0.2647 0.0477 *

Mars 98266-02-13 23:45 G 37612023.33 37612023.49 37612023.65 0.1951 0.0603

Jupiter 98268-02-22 12:28 G 37612761.95 37612762.02 37612762.09 0.0513 0.0424

Jupiter 98268-05-21 16:04 G 37612851.06 37612851.17 37612851.29 0.0511 0.0218

Mars 98268-11-16 10:19 G 37613029.82 37613029.93 37613030.05 0.1594 0.0302

Venus 98269-05-07 03:50 G 37613201.57 37613201.66 37613201.76 0.3631 0.1107

Saturn 98269-09-20 00:00 G 37613337.36 37613337.50 37613337.65 0.0278 0.0176

Uranus 98269-10-30 10:19 G 37613377.90 37613377.93 37613377.98 0.0142 0.0134

Saturn 98269-12-18 00:00 G 37613426.31 37613426.50 37613426.69 0.0279 0.0029

Uranus 98270-01-26 13:55 G 37613466.01 37613466.08 37613466.16 0.0142 0.0113

Saturn 98270-03-17 00:00 G 37613515.40 37613515.50 37613515.61 0.0280 0.0235

Uranus 98270-04-24 17:16 G 37613554.13 37613554.22 37613554.32 0.0142 0.0092

Uranus 98270-07-21 20:38 G 37613642.25 37613642.36 37613642.48 0.0142 0.0071

Uranus 98270-10-18 00:00 G 37613730.39 37613730.50 37613730.63 0.0142 0.0050

Mars 98270-10-22 11:31 G 37613734.92 37613734.98 37613735.04 0.1585 0.1337

Uranus 98271-01-14 03:35 G 37613818.52 37613818.65 37613818.78 0.0142 0.0028

Uranus 98271-04-12 06:57 G 37613906.66 37613906.79 37613906.92 0.0142 0.0008

Uranus 98271-07-09 10:19 G 37613994.80 37613994.93 37613995.07 0.0142 0.0015

Uranus 98271-10-05 13:55 G 37614082.95 37614083.08 37614083.20 0.0142 0.0035

Uranus 98272-01-01 17:16 G 37614171.10 37614171.22 37614171.34 0.0142 0.0056

Uranus 98272-03-29 20:38 G 37614259.26 37614259.36 37614259.47 0.0142 0.0078

Uranus 98272-06-26 00:00 G 37614347.42 37614347.50 37614347.60 0.0142 0.0099

Uranus 98272-09-22 03:35 G 37614435.58 37614435.65 37614435.72 0.0142 0.0120

Uranus 98272-12-19 06:57 G 37614523.79 37614523.79 37614523.80 0.0142 0.0142

Jupiter 98274-07-13 19:11 G 37615095.16 37615095.30 37615095.45 0.0514 0.0309

Venus 98274-11-20 18:43 G 37615225.22 37615225.28 37615225.34 0.3629 0.2931

Mars 98275-07-06 14:52 G 37615452.98 37615453.12 37615453.27 0.1946 0.0931

Earth 98277-01-24 03:21 G 37616020.54 37616020.64 37616020.74 0.2640 0.0989

Moon 98277-01-24 04:04 G 37616020.57 37616020.67 37616020.76 0.2643 0.1135 *

Mars 98278-04-08 22:04 G 37616460.32 37616460.42 37616460.53 0.1597 0.0698

Neptune 98278-05-21 10:19 G 37616502.92 37616502.93 37616502.99 0.0090 0.0089

Neptune 98278-08-17 14:09 G 37616591.01 37616591.09 37616591.21 0.0090 0.0078

Neptune 98278-11-13 18:00 G 37616679.14 37616679.25 37616679.40 0.0090 0.0067

Neptune 98279-02-09 21:50 G 37616767.28 37616767.41 37616767.58 0.0090 0.0056

Neptune 98279-05-09 01:40 G 37616855.42 37616855.57 37616855.76 0.0090 0.0045

Neptune 98279-08-05 05:31 G 37616943.56 37616943.73 37616943.93 0.0090 0.0034

Neptune 98279-11-01 09:21 G 37617031.71 37617031.89 37617032.09 0.0090 0.0023

Neptune 98280-01-28 13:26 G 37617119.87 37617120.06 37617120.26 0.0090 0.0011

Jupiter 98280-03-09 21:07 G 37617161.26 37617161.38 37617161.51 0.0511 0.0068

Mars 98280-03-13 23:02 G 37617165.37 37617165.46 37617165.56 0.1587 0.0940

Neptune 98280-04-25 17:16 G 37617208.02 37617208.22 37617208.42 0.0090 0.0000

Neptune 98280-07-22 20:52 G 37617296.18 37617296.37 37617296.57 0.0090 0.0011

Moon 98280-07-25 21:35 G 37617299.25 37617299.40 37617299.55 0.2697 0.0903

Earth 98280-07-25 22:33 G 37617299.29 37617299.44 37617299.60 0.2691 0.0672 *

Neptune 98280-10-19 00:43 G 37617384.34 37617384.53 37617384.72 0.0090 0.0022

Neptune 98281-01-15 04:19 G 37617472.51 37617472.68 37617472.87 0.0090 0.0033

Neptune 98281-04-13 08:09 G 37617560.68 37617560.84 37617561.02 0.0090 0.0044

Neptune 98281-07-10 11:45 G 37617648.85 37617648.99 37617649.16 0.0090 0.0055

Neptune 98281-10-06 15:35 G 37617737.03 37617737.15 37617737.30 0.0090 0.0066

Neptune 98282-01-02 19:11 G 37617825.22 37617825.30 37617825.42 0.0090 0.0077

Neptune 98282-03-31 23:31 G 37617913.43 37617913.48 37617913.52 0.0090 0.0087

Saturn 98282-11-03 09:50 G 37618129.81 37618129.91 37618130.03 0.0285 0.0148

Saturn 98283-01-30 21:07 G 37618218.25 37618218.38 37618218.51 0.0284 0.0006

Venus 98283-03-12 04:48 G 37618258.53 37618258.70 37618258.86 0.3741 0.0534

Saturn 98283-04-29 08:09 G 37618306.73 37618306.84 37618306.95 0.0283 0.0142

Jupiter 98286-05-01 14:24 G 37619404.91 37619405.10 37619405.28 0.0515 0.0046

Mars 98287-08-30 10:04 G 37619890.83 37619890.92 37619891.00 0.1600 0.1094

Mars 98289-08-04 10:48 G 37620595.84 37620595.95 37620596.07 0.1589 0.0546

Earth 98290-01-26 20:38 G 37620771.32 37620771.36 37620771.39 0.2639 0.2453

Moon 98290-01-26 21:07 G 37620771.35 37620771.38 37620771.41 0.2635 0.2528 *

Jupiter 98291-12-28 02:24 G 37621471.47 37621471.60 37621471.72 0.0512 0.0087

Moon 98297-01-19 21:35 G 37623321.32 37623321.40 37623321.48 0.2649 0.1708

Earth 98297-01-19 21:50 G 37623321.32 37623321.41 37623321.49 0.2642 0.1615 *

Mars 98297-01-19 21:50 G 37623321.37 37623321.41 37623321.44 0.1603 0.1494 *

Jupiter 98298-02-17 10:48 G 37623714.78 37623714.95 37623715.12 0.0514 0.0195

Mars 98298-12-25 22:33 G 37624026.33 37624026.44 37624026.56 0.1591 0.0153

Saturn 98299-02-06 20:52 G 37624069.29 37624069.37 37624069.47 0.0276 0.0243

Saturn 98299-05-06 21:07 G 37624158.19 37624158.38 37624158.57 0.0278 0.0040

Saturn 98299-08-03 20:52 G 37624247.22 37624247.37 37624247.53 0.0279 0.0165

Pluto 98302-04-06 04:19 G 37625222.60 37625222.68 37625222.80 0.0060 0.0052

Pluto 98302-07-03 05:31 G 37625310.62 37625310.73 37625310.89 0.0061 0.0042

Pluto 98302-09-29 07:11 G 37625398.64 37625398.80 37625398.96 0.0061 0.0031

Pluto 98302-12-26 08:24 G 37625486.68 37625486.85 37625487.03 0.0061 0.0021

Pluto 98303-03-24 09:35 G 37625574.72 37625574.90 37625575.09 0.0061 0.0011

Pluto 98303-06-20 11:02 G 37625662.77 37625662.96 37625663.15 0.0061 0.0001

Pluto 98303-09-16 12:14 G 37625750.82 37625751.01 37625751.19 0.0061 0.0010

Jupiter 98303-10-17 06:57 G 37625781.68 37625781.79 37625781.90 0.0512 0.0249

Pluto 98303-12-13 13:26 G 37625838.88 37625839.06 37625839.24 0.0061 0.0020

Jupiter 98304-01-14 10:19 G 37625870.85 37625870.93 37625871.01 0.0510 0.0388

Pluto 98304-03-10 14:24 G 37625926.95 37625927.10 37625927.27 0.0061 0.0031

Pluto 98304-06-06 15:35 G 37626015.03 37626015.15 37626015.30 0.0061 0.0041

Pluto 98304-09-02 16:33 G 37626103.12 37626103.19 37626103.31 0.0061 0.0052

Mars 98305-08-16 00:28 G 37626450.37 37626450.52 37626450.68 0.1951 0.0710

Mars 98308-05-18 10:19 G 37627456.82 37627456.93 37627457.05 0.1594 0.0257

Jupiter 98309-12-07 07:11 G 37628024.70 37628024.80 37628024.90 0.0513 0.0434

Earth 98310-01-23 14:52 G 37628072.01 37628072.12 37628072.23 0.2641 0.0174

Moon 98310-01-23 15:21 G 37628072.03 37628072.14 37628072.25 0.2646 0.0046 *

Mars 98310-04-23 11:31 G 37628161.92 37628161.98 37628162.03 0.1585 0.1381

Uranus 98310-11-24 14:52 G 37628377.11 37628377.12 37628377.18 0.0136 0.0135

Uranus 98311-02-20 23:02 G 37628465.34 37628465.46 37628465.59 0.0136 0.0106

Uranus 98311-05-20 06:57 G 37628553.63 37628553.79 37628553.95 0.0136 0.0078

Uranus 98311-08-16 14:38 G 37628641.93 37628642.11 37628642.29 0.0136 0.0049

Uranus 98311-11-12 22:19 G 37628730.24 37628730.43 37628730.63 0.0136 0.0021

Uranus 98312-02-09 06:00 G 37628818.56 37628818.75 37628818.95 0.0136 0.0007

Saturn 98312-03-23 11:16 G 37628861.88 37628861.97 37628862.06 0.0286 0.0205

Uranus 98312-05-07 13:40 G 37628906.89 37628907.07 37628907.26 0.0136 0.0035

Saturn 98312-06-19 22:19 G 37628950.31 37628950.43 37628950.56 0.0285 0.0059

Uranus 98312-08-03 21:21 G 37628995.22 37628995.39 37628995.57 0.0136 0.0062

Saturn 98312-09-16 09:21 G 37629038.77 37629038.89 37629039.02 0.0284 0.0087

Uranus 98312-10-31 05:02 G 37629083.57 37629083.71 37629083.86 0.0136 0.0090

Saturn 98312-12-13 20:24 G 37629127.28 37629127.35 37629127.42 0.0282 0.0229

Uranus 98313-01-27 12:28 G 37629171.94 37629172.02 37629172.13 0.0136 0.0118

Venus 98314-11-13 19:26 G 37629827.23 37629827.31 37629827.40 0.3635 0.1936

Mars 98315-01-05 16:19 G 37629880.02 37629880.18 37629880.33 0.1947 0.0806

Jupiter 98315-08-05 11:45 G 37630091.91 37630091.99 37630092.06 0.0513 0.0409

Jupiter 98315-11-02 15:07 G 37630181.02 37630181.13 37630181.25 0.0511 0.0232

Mars 98317-10-08 22:19 G 37630887.32 37630887.43 37630887.53 0.1597 0.0650

Mars 98319-09-13 23:16 G 37631592.37 37631592.47 37631592.56 0.1587 0.0987

Venus 98320-05-29 10:19 G 37631850.83 37631850.93 37631851.03 0.3633 0.0089

Jupiter 98321-12-24 18:14 G 37632425.12 37632425.26 37632425.41 0.0515 0.0328

Earth 98323-01-26 08:09 G 37632822.74 37632822.84 37632822.93 0.2640 0.1290

Moon 98323-01-26 08:38 G 37632822.77 37632822.86 37632822.96 0.2642 0.1353 *

Venus 98325-12-13 01:11 G 37633874.46 37633874.55 37633874.64 0.3631 0.1751

Moon 98326-07-28 04:48 G 37634101.54 37634101.70 37634101.85 0.2698 0.0072

Earth 98326-07-28 05:45 G 37634101.58 37634101.74 37634101.90 0.2692 0.0058 *

Mars 98327-03-01 09:50 G 37634317.83 37634317.91 37634318.00 0.1600 0.1052

Jupiter 98327-08-21 20:09 G 37634491.22 37634491.34 37634491.47 0.0512 0.0076

Saturn 98328-09-23 18:14 G 37634890.09 37634890.26 37634890.44 0.0278 0.0109

Saturn 98328-12-21 18:14 G 37634979.08 37634979.26 37634979.44 0.0279 0.0095

Mars 98329-02-03 10:48 G 37635022.85 37635022.95 37635023.06 0.1589 0.0593

Venus 98331-06-28 16:04 G 37635898.15 37635898.17 37635898.18 0.3629 0.3581

Jupiter 98333-10-12 14:09 G 37636734.91 37636735.09 37636735.28 0.0514 0.0077

Mars 98336-07-21 21:35 G 37637748.36 37637748.40 37637748.45 0.1603 0.1453

Mars 98338-06-26 22:33 G 37638453.32 37638453.44 37638453.56 0.1591 0.0189

Jupiter 98339-06-10 01:11 G 37638801.43 37638801.55 37638801.68 0.0512 0.0078

Venus 98339-10-18 08:09 G 37638931.71 37638931.84 37638931.97 0.3742 0.2200

Saturn 98341-08-10 12:57 G 37639593.99 37639594.04 37639594.11 0.0287 0.0255

Saturn 98341-11-07 00:14 G 37639682.39 37639682.51 37639682.63 0.0285 0.0107

Saturn 98342-02-03 11:16 G 37639770.85 37639770.97 37639771.10 0.0284 0.0040

Saturn 98342-05-02 22:19 G 37639859.34 37639859.43 37639859.53 0.0283 0.0182

Moon 98343-01-22 02:24 G 37640123.51 37640123.60 37640123.70 0.2648 0.1296

Earth 98343-01-22 02:38 G 37640123.51 37640123.61 37640123.70 0.2642 0.1329 *

Mars 98345-02-14 01:40 G 37640877.42 37640877.57 37640877.72 0.1951 0.0830

Jupiter 98345-07-31 08:52 G 37641044.70 37641044.87 37641045.04 0.0514 0.0191

Mars 98347-11-17 10:19 G 37641883.82 37641883.93 37641884.05 0.1594 0.0212

Mars 98349-10-22 11:16 G 37642588.93 37642588.97 37642589.02 0.1585 0.1426

Jupiter 98351-03-29 06:28 G 37643111.65 37643111.77 37643111.88 0.0512 0.0229

Jupiter 98351-06-26 09:50 G 37643200.84 37643200.91 37643200.99 0.0510 0.0408

Uranus 98353-11-20 17:45 G 37644079.19 37644079.24 37644079.29 0.0141 0.0129

Uranus 98354-02-16 21:07 G 37644167.30 37644167.38 37644167.47 0.0142 0.0108

Uranus 98354-05-16 00:28 G 37644255.42 37644255.52 37644255.63 0.0142 0.0087

Mars 98354-07-06 16:48 G 37644307.04 37644307.20 37644307.35 0.1947 0.0720

Uranus 98354-08-12 03:50 G 37644343.55 37644343.66 37644343.78 0.0142 0.0066

Uranus 98354-11-08 07:11 G 37644431.68 37644431.80 37644431.93 0.0142 0.0046

Uranus 98355-02-04 10:48 G 37644519.82 37644519.95 37644520.08 0.0142 0.0024

Uranus 98355-05-03 14:09 G 37644607.96 37644608.09 37644608.22 0.0142 0.0003

Uranus 98355-07-30 17:31 G 37644696.10 37644696.23 37644696.36 0.0142 0.0018

Uranus 98355-10-26 20:52 G 37644784.25 37644784.37 37644784.50 0.0142 0.0040

Uranus 98356-01-23 00:14 G 37644872.40 37644872.51 37644872.63 0.0142 0.0061

Earth 98356-01-24 19:40 G 37644874.21 37644874.32 37644874.43 0.2641 0.0130

Moon 98356-01-24 20:09 G 37644874.23 37644874.34 37644874.45 0.2646 0.0147 *

Uranus 98356-04-20 03:35 G 37644960.55 37644960.65 37644960.77 0.0142 0.0082

Uranus 98356-07-17 07:11 G 37645048.71 37645048.80 37645048.89 0.0142 0.0103

Uranus 98356-10-13 10:33 G 37645136.89 37645136.94 37645137.01 0.0142 0.0125

Mars 98357-04-08 22:04 G 37645314.31 37645314.42 37645314.53 0.1597 0.0609

Jupiter 98357-05-19 05:16 G 37645354.62 37645354.72 37645354.82 0.0514 0.0432

Saturn 98358-02-10 16:19 G 37645622.03 37645622.18 37645622.33 0.0277 0.0169

Saturn 98358-05-10 16:04 G 37645710.98 37645711.17 37645711.36 0.0278 0.0034

Saturn 98358-08-07 16:04 G 37645800.08 37645800.17 37645800.27 0.0279 0.0239

Neptune 98359-03-10 18:28 G 37646015.25 37646015.27 37646015.32 0.0088 0.0085

Mars 98359-03-14 23:02 G 37646019.38 37646019.46 37646019.55 0.1587 0.1031

Neptune 98359-06-06 19:40 G 37646103.28 37646103.32 37646103.40 0.0088 0.0078

Neptune 98359-09-02 21:07 G 37646191.31 37646191.38 37646191.46 0.0088 0.0071

Neptune 98359-11-29 22:19 G 37646279.35 37646279.43 37646279.53 0.0088 0.0064

Neptune 98360-02-25 23:31 G 37646367.39 37646367.48 37646367.59 0.0088 0.0057

Neptune 98360-05-24 00:57 G 37646455.44 37646455.54 37646455.65 0.0088 0.0050

Neptune 98360-08-20 02:09 G 37646543.48 37646543.59 37646543.71 0.0088 0.0043

Neptune 98360-11-16 03:21 G 37646631.53 37646631.64 37646631.77 0.0088 0.0036

Neptune 98361-02-12 04:48 G 37646719.58 37646719.70 37646719.82 0.0088 0.0029

Neptune 98361-05-11 06:00 G 37646807.62 37646807.75 37646807.88 0.0088 0.0022

Neptune 98361-08-07 07:11 G 37646895.67 37646895.80 37646895.93 0.0088 0.0015

Neptune 98361-11-03 08:24 G 37646983.72 37646983.85 37646983.99 0.0088 0.0009

Neptune 98362-01-30 09:50 G 37647071.78 37647071.91 37647072.04 0.0088 0.0002

Neptune 98362-04-28 11:02 G 37647159.83 37647159.96 37647160.09 0.0088 0.0006

Neptune 98362-07-25 12:14 G 37647247.88 37647248.01 37647248.14 0.0088 0.0013

Neptune 98362-10-21 13:26 G 37647335.94 37647336.06 37647336.19 0.0088 0.0020

Jupiter 98363-01-15 11:02 G 37647421.88 37647421.96 37647422.03 0.0513 0.0394

Neptune 98363-01-17 14:38 G 37647423.99 37647424.11 37647424.24 0.0088 0.0027

Jupiter 98363-04-14 14:24 G 37647510.99 37647511.10 37647511.21 0.0511 0.0246

Neptune 98363-04-15 15:50 G 37647512.05 37647512.16 37647512.29 0.0088 0.0034

Neptune 98363-07-12 17:16 G 37647600.11 37647600.22 37647600.34 0.0088 0.0040

Neptune 98363-10-08 18:28 G 37647688.16 37647688.27 37647688.39 0.0088 0.0047

Neptune 98364-01-04 19:40 G 37647776.22 37647776.32 37647776.43 0.0088 0.0055

Neptune 98364-04-01 20:52 G 37647864.29 37647864.37 37647864.47 0.0088 0.0062

Neptune 98364-06-28 22:04 G 37647952.35 37647952.42 37647952.51 0.0088 0.0069

Neptune 98364-09-24 23:16 G 37648040.42 37648040.47 37648040.55 0.0088 0.0076

Neptune 98364-12-22 00:57 G 37648128.49 37648128.54 37648128.58 0.0088 0.0082

Venus 98365-12-05 01:55 G 37648476.53 37648476.58 37648476.63 0.3636 0.3131

Mars 98366-08-30 09:50 G 37648744.82 37648744.91 37648745.00 0.1600 0.1007

Mars 98368-08-04 10:48 G 37649449.85 37649449.95 37649450.06 0.1589 0.0633

Earth 98369-01-26 12:57 G 37649624.95 37649625.04 37649625.12 0.2640 0.1590

Moon 98369-01-26 13:26 G 37649624.98 37649625.06 37649625.14 0.2640 0.1750 *

Jupiter 98369-06-05 17:02 G 37649755.08 37649755.21 37649755.35 0.0515 0.0341

Saturn 98371-03-27 01:55 G 37650414.47 37650414.58 37650414.68 0.0286 0.0161

Venus 98371-06-20 16:48 G 37650500.10 37650500.20 37650500.29 0.3634 0.1281

Saturn 98371-06-23 12:57 G 37650502.91 37650503.04 37650503.17 0.0285 0.0014

Saturn 98371-09-20 00:00 G 37650591.39 37650591.50 37650591.61 0.0284 0.0130

Saturn 98371-12-17 10:48 G 37650679.93 37650679.95 37650679.99 0.0282 0.0273

Moon 98372-07-28 11:45 G 37650903.83 37650903.99 37650904.14 0.2698 0.0473

Earth 98372-07-28 12:28 G 37650903.87 37650904.02 37650904.18 0.2692 0.0720 *

Jupiter 98375-01-31 19:11 G 37651821.18 37651821.30 37651821.43 0.0511 0.0086

Moon 98376-01-20 13:40 G 37652175.05 37652175.07 37652175.10 0.2649 0.2550

Earth 98376-01-20 14:09 G 37652175.06 37652175.09 37652175.13 0.2643 0.2475 *

Mars 98376-01-20 21:35 G 37652175.35 37652175.40 37652175.46 0.1603 0.1409

Venus 98377-01-03 07:40 G 37652523.72 37652523.82 37652523.92 0.3632 0.0576

Mars 98377-12-25 22:33 G 37652880.33 37652880.44 37652880.56 0.1591 0.0239

Jupiter 98381-03-24 12:43 G 37654064.85 37654065.03 37654065.22 0.0514 0.0089

Venus 98382-07-19 22:33 G 37654547.36 37654547.44 37654547.51 0.3630 0.2406

Mars 98384-08-15 02:38 G 37655304.46 37655304.61 37655304.75 0.1951 0.0944

Jupiter 98386-11-20 00:00 G 37656131.38 37656131.50 37656131.63 0.0512 0.0072

Mars 98387-05-18 10:19 G 37656310.81 37656310.93 37656311.05 0.1594 0.0165

Saturn 98387-06-30 14:09 G 37656353.99 37656354.09 37656354.20 0.0277 0.0232

Saturn 98387-09-27 14:09 G 37656442.90 37656443.09 37656443.28 0.0278 0.0030

Saturn 98387-12-25 13:55 G 37656531.94 37656532.08 37656532.23 0.0279 0.0175

Earth 98389-01-22 07:11 G 37656925.70 37656925.80 37656925.90 0.2642 0.1033

Moon 98389-01-22 07:26 G 37656925.71 37656925.81 37656925.90 0.2648 0.1053 *

Mars 98389-04-22 11:16 G 37657015.93 37657015.97 37657016.02 0.1585 0.1476

Jupiter 98393-01-10 08:24 G 37658374.67 37658374.85 37658375.03 0.0514 0.0164

Mars 98394-01-04 17:45 G 37658734.08 37658734.24 37658734.40 0.1947 0.0592

Uranus 98394-12-14 21:07 G 37659078.34 37659078.38 37659078.45 0.0136 0.0131

Uranus 98395-03-13 05:02 G 37659166.59 37659166.71 37659166.85 0.0136 0.0102

Uranus 98395-06-09 12:43 G 37659254.88 37659255.03 37659255.21 0.0136 0.0075

Uranus 98395-09-05 20:38 G 37659343.18 37659343.36 37659343.55 0.0136 0.0046

Uranus 98395-12-03 04:19 G 37659431.49 37659431.68 37659431.88 0.0136 0.0018

Pluto 98396-01-20 11:45 G 37659479.95 37659479.99 37659480.05 0.0084 0.0077

Uranus 98396-02-29 12:14 G 37659519.81 37659520.01 37659520.20 0.0136 0.0010

Pluto 98396-04-17 13:11 G 37659567.95 37659568.05 37659568.15 0.0084 0.0057

Uranus 98396-05-27 19:40 G 37659608.14 37659608.32 37659608.52 0.0136 0.0039

Pluto 98396-07-14 14:24 G 37659655.98 37659656.10 37659656.23 0.0083 0.0037

Uranus 98396-08-24 03:21 G 37659696.48 37659696.64 37659696.82 0.0136 0.0066

Mars 98396-10-07 22:04 G 37659741.31 37659741.42 37659741.53 0.1597 0.0566

Pluto 98396-10-10 15:50 G 37659744.02 37659744.16 37659744.29 0.0083 0.0018

Uranus 98396-11-20 10:48 G 37659784.83 37659784.95 37659785.11 0.0136 0.0094

Pluto 98397-01-06 17:02 G 37659832.07 37659832.21 37659832.35 0.0083 0.0002

Uranus 98397-02-16 18:43 G 37659873.20 37659873.28 37659873.37 0.0136 0.0121

Pluto 98397-04-04 18:14 G 37659920.13 37659920.26 37659920.39 0.0083 0.0021

Pluto 98397-07-01 19:26 G 37660008.19 37660008.31 37660008.43 0.0083 0.0040

Pluto 98397-09-27 20:24 G 37660096.27 37660096.35 37660096.46 0.0083 0.0060

Pluto 98397-12-24 21:35 G 37660184.38 37660184.40 37660184.46 0.0083 0.0079

Jupiter 98398-09-08 05:02 G 37660441.60 37660441.71 37660441.83 0.0512 0.0225

Mars 98398-09-12 23:02 G 37660446.38 37660446.46 37660446.55 0.1587 0.1075

Jupiter 98398-12-06 08:38 G 37660530.79 37660530.86 37660530.93 0.0510 0.0413

Saturn 98400-08-13 03:50 G 37661146.58 37661146.66 37661146.75 0.0286 0.0207

Saturn 98400-11-09 15:07 G 37661235.00 37661235.13 37661235.26 0.0285 0.0060

Saturn 98401-02-06 02:09 G 37661323.47 37661323.59 37661323.72 0.0284 0.0086

Saturn 98401-05-05 13:11 G 37661411.98 37661412.05 37661412.13 0.0283 0.0229

Earth 98402-01-25 00:28 G 37661676.41 37661676.52 37661676.63 0.2641 0.0425

Moon 98402-01-25 00:57 G 37661676.43 37661676.54 37661676.64 0.2645 0.0563 *

Jupiter 98404-10-29 02:52 G 37662684.52 37662684.62 37662684.72 0.0513 0.0434

Moon 98405-07-26 08:52 G 37662954.83 37662954.87 37662954.92 0.2695 0.2579

Earth 98405-07-26 10:19 G 37662954.85 37662954.93 37662955.02 0.2690 0.2272 *

Mars 98406-02-28 09:50 G 37663171.82 37663171.91 37663172.00 0.1600 0.0965

Mars 98408-02-03 10:48 G 37663876.85 37663876.95 37663877.06 0.1589 0.0677

Jupiter 98410-06-27 10:04 G 37664751.84 37664751.92 37664752.01 0.0513 0.0378

Jupiter 98410-09-24 13:40 G 37664840.96 37664841.07 37664841.18 0.0511 0.0261

Earth 98415-01-27 17:31 G 37666427.16 37666427.23 37666427.31 0.2640 0.1888

Moon 98415-01-27 18:14 G 37666427.19 37666427.26 37666427.33 0.2638 0.1928 *

Mars 98415-07-21 21:35 G 37666602.34 37666602.40 37666602.46 0.1603 0.1367

Jupiter 98416-11-15 14:38 G 37667084.97 37667085.11 37667085.25 0.0515 0.0334

Saturn 98417-02-13 12:43 G 37667174.85 37667175.03 37667175.21 0.0277 0.0084

Saturn 98417-05-13 12:28 G 37667263.85 37667264.02 37667264.20 0.0278 0.0120

Mars 98417-06-25 22:33 G 37667307.32 37667307.44 37667307.56 0.1591 0.0280

Moon 98418-07-29 18:43 G 37667706.15 37667706.28 37667706.41 0.2698 0.1408

Earth 98418-07-29 19:26 G 37667706.18 37667706.31 37667706.45 0.2692 0.1401 *

Moon 98422-01-20 18:28 G 37668977.22 37668977.27 37668977.33 0.2648 0.2245

Earth 98422-01-20 18:57 G 37668977.23 37668977.29 37668977.35 0.2643 0.2185 *

Venus 98422-07-11 23:02 G 37669149.39 37669149.46 37669149.54 0.3636 0.2471

Jupiter 98422-07-13 18:14 G 37669151.13 37669151.26 37669151.38 0.0511 0.0097

Mars 98424-02-14 03:21 G 37669731.50 37669731.64 37669731.78 0.1952 0.1048

Mars 98426-11-16 10:19 G 37670737.81 37670737.93 37670738.05 0.1594 0.0121

Venus 98428-01-25 13:55 G 37671172.98 37671173.08 37671173.18 0.3634 0.0633

Jupiter 98428-09-03 10:48 G 37671394.77 37671394.95 37671395.14 0.0514 0.0094

Mars 98428-10-21 11:16 G 37671442.94 37671442.97 37671443.00 0.1585 0.1519

Saturn 98429-12-31 06:00 G 37671878.69 37671878.75 37671878.80 0.0287 0.0257

Saturn 98430-03-29 17:02 G 37671967.10 37671967.21 37671967.33 0.0286 0.0109

Saturn 98430-06-26 04:19 G 37672055.55 37672055.68 37672055.80 0.0285 0.0038

Saturn 98430-09-22 15:07 G 37672144.04 37672144.13 37672144.23 0.0283 0.0182

Mars 98433-07-05 18:57 G 37673161.13 37673161.29 37673161.45 0.1947 0.0471

Venus 98433-08-10 04:48 G 37673196.61 37673196.70 37673196.80 0.3631 0.1226

Jupiter 98434-05-01 22:48 G 37673461.33 37673461.45 37673461.58 0.0512 0.0066

Earth 98435-01-23 12:00 G 37673727.90 37673728.00 37673728.10 0.2642 0.0735

Moon 98435-01-23 12:14 G 37673727.91 37673728.01 37673728.11 0.2648 0.0693 *

Mars 98436-04-07 22:04 G 37674168.31 37674168.42 37674168.53 0.1596 0.0519

Uranus 98437-12-11 00:57 G 37674780.49 37674780.54 37674780.61 0.0141 0.0124

Uranus 98438-03-09 04:19 G 37674868.60 37674868.68 37674868.78 0.0142 0.0103

Mars 98438-03-13 23:02 G 37674873.38 37674873.46 37674873.54 0.1587 0.1123

Uranus 98438-06-05 07:55 G 37674956.72 37674956.83 37674956.94 0.0142 0.0082

Uranus 98438-09-01 11:16 G 37675044.85 37675044.97 37675045.09 0.0142 0.0061

Uranus 98438-11-28 14:38 G 37675132.99 37675133.11 37675133.24 0.0142 0.0040

Venus 98439-02-23 19:40 G 37675220.27 37675220.32 37675220.37 0.3630 0.3050

Uranus 98439-02-24 18:00 G 37675221.12 37675221.25 37675221.38 0.0142 0.0019

Uranus 98439-05-23 21:35 G 37675309.26 37675309.40 37675309.53 0.0142 0.0005

Uranus 98439-08-20 00:57 G 37675397.41 37675397.54 37675397.67 0.0142 0.0024

Uranus 98439-11-16 04:19 G 37675485.56 37675485.68 37675485.80 0.0142 0.0045

Uranus 98440-02-12 07:40 G 37675573.71 37675573.82 37675573.94 0.0142 0.0066

Uranus 98440-05-10 11:02 G 37675661.86 37675661.96 37675662.07 0.0142 0.0087

Jupiter 98440-06-22 06:28 G 37675704.59 37675704.77 37675704.95 0.0514 0.0160

Uranus 98440-08-06 14:24 G 37675750.02 37675750.10 37675750.19 0.0142 0.0109

Uranus 98440-11-02 18:00 G 37675838.20 37675838.25 37675838.30 0.0142 0.0130

Neptune 98443-02-16 08:52 G 37676673.82 37676673.87 37676673.96 0.0090 0.0084

Neptune 98443-05-15 12:43 G 37676761.93 37676762.03 37676762.16 0.0090 0.0073

Neptune 98443-08-11 16:33 G 37676850.06 37676850.19 37676850.35 0.0090 0.0062

Neptune 98443-11-07 20:24 G 37676938.20 37676938.35 37676938.53 0.0090 0.0051

Neptune 98444-02-04 00:14 G 37677026.35 37677026.51 37677026.70 0.0090 0.0040

Neptune 98444-05-02 04:04 G 37677114.49 37677114.67 37677114.87 0.0090 0.0029

Neptune 98444-07-29 07:55 G 37677202.65 37677202.83 37677203.03 0.0090 0.0018

Neptune 98444-10-25 12:00 G 37677290.80 37677291.00 37677291.19 0.0090 0.0006

Neptune 98445-01-21 15:50 G 37677378.96 37677379.16 37677379.35 0.0090 0.0005

Neptune 98445-04-19 19:26 G 37677467.12 37677467.31 37677467.51 0.0090 0.0016

Neptune 98445-07-16 23:02 G 37677555.28 37677555.46 37677555.66 0.0090 0.0027

Mars 98445-08-29 09:50 G 37677598.81 37677598.91 37677599.00 0.1600 0.0923

Neptune 98445-10-13 02:52 G 37677643.45 37677643.62 37677643.81 0.0090 0.0038

Neptune 98446-01-09 06:28 G 37677731.62 37677731.77 37677731.95 0.0090 0.0049

Jupiter 98446-02-18 03:35 G 37677771.53 37677771.65 37677771.76 0.0512 0.0227

Neptune 98446-04-07 10:19 G 37677819.80 37677819.93 37677820.09 0.0090 0.0060

Jupiter 98446-05-18 06:57 G 37677860.72 37677860.79 37677860.87 0.0510 0.0412

Saturn 98446-07-03 11:16 G 37677906.81 37677906.97 37677907.14 0.0277 0.0141

Neptune 98446-07-04 13:55 G 37677907.98 37677908.08 37677908.22 0.0090 0.0071

Saturn 98446-09-30 11:16 G 37677995.79 37677995.97 37677996.16 0.0278 0.0063

Neptune 98446-09-30 18:14 G 37677996.18 37677996.26 37677996.34 0.0090 0.0081

Saturn 98446-12-28 11:02 G 37678084.92 37678084.96 37678085.02 0.0280 0.0269

Venus 98447-06-15 00:43 G 37678253.37 37678253.53 37678253.69 0.3740 0.1082

Mars 98447-08-04 10:48 G 37678303.85 37678303.95 37678304.06 0.1589 0.0724

Earth 98448-01-26 05:16 G 37678478.61 37678478.72 37678478.82 0.2640 0.0727

Moon 98448-01-26 05:45 G 37678478.64 37678478.74 37678478.84 0.2644 0.0769 *

Moon 98451-07-27 15:50 G 37679757.04 37679757.16 37679757.28 0.2696 0.1725

Earth 98451-07-27 17:16 G 37679757.09 37679757.22 37679757.35 0.2691 0.1586 *

Jupiter 98452-04-10 01:55 G 37680014.48 37680014.58 37680014.69 0.0513 0.0414

Mars 98455-01-19 21:35 G 37681029.34 37681029.40 37681029.46 0.1603 0.1325

Mars 98456-12-24 22:33 G 37681734.32 37681734.44 37681734.55 0.1591 0.0325

Jupiter 98457-12-07 08:38 G 37682081.78 37682081.86 37682081.94 0.0513 0.0379

Jupiter 98458-03-06 12:14 G 37682170.90 37682171.01 37682171.12 0.0511 0.0260

Saturn 98459-08-16 19:40 G 37682699.21 37682699.32 37682699.43 0.0286 0.0149

Saturn 98459-11-13 06:57 G 37682787.66 37682787.79 37682787.91 0.0285 0.0010

Saturn 98460-02-09 17:45 G 37682876.13 37682876.24 37682876.36 0.0283 0.0142

Earth 98461-01-27 22:19 G 37683229.37 37683229.43 37683229.49 0.2639 0.2181

Moon 98461-01-27 23:02 G 37683229.41 37683229.46 37683229.51 0.2637 0.2347 *

Mars 98463-08-15 04:19 G 37684158.55 37684158.68 37684158.82 0.1952 0.1171

Jupiter 98464-04-27 11:45 G 37684414.85 37684414.99 37684415.13 0.0515 0.0323

Moon 98464-07-30 02:09 G 37684508.48 37684508.59 37684508.70 0.2699 0.1946

Earth 98464-07-30 02:24 G 37684508.50 37684508.60 37684508.70 0.2692 0.2084 *

Mars 98466-05-17 10:19 G 37685164.81 37685164.93 37685165.05 0.1594 0.0076

Moon 98468-01-21 23:16 G 37685779.40 37685779.47 37685779.54 0.2648 0.1970

Earth 98468-01-21 23:31 G 37685779.41 37685779.48 37685779.56 0.2643 0.1894 *

Mars 98468-04-21 11:16 G 37685869.96 37685869.97 37685869.99 0.1585 0.1563

Jupiter 98469-12-23 17:16 G 37686481.09 37686481.22 37686481.34 0.0511 0.0107

Mars 98473-01-03 19:26 G 37687588.15 37687588.31 37687588.48 0.1947 0.0379

Mars 98475-10-07 22:04 G 37688595.31 37688595.42 37688595.53 0.1597 0.0478

Saturn 98475-11-20 11:02 G 37688638.82 37688638.96 37688639.10 0.0276 0.0188

Jupiter 98476-02-14 07:40 G 37688724.64 37688724.82 37688725.01 0.0515 0.0077

Saturn 98476-02-17 10:48 G 37688727.76 37688727.95 37688728.14 0.0277 0.0015

Saturn 98476-05-16 10:33 G 37688816.83 37688816.94 37688817.06 0.0279 0.0220

Mars 98477-09-11 23:02 G 37689300.38 37689300.46 37689300.54 0.1587 0.1168

Uranus 98479-01-04 03:50 G 37689779.59 37689779.66 37689779.74 0.0136 0.0126

Venus 98479-02-15 20:24 G 37689822.26 37689822.35 37689822.44 0.3635 0.1808

Uranus 98479-04-02 11:31 G 37689867.85 37689867.98 37689868.12 0.0136 0.0098

Uranus 98479-06-29 19:11 G 37689956.14 37689956.30 37689956.48 0.0136 0.0070

Uranus 98479-09-26 03:07 G 37690044.45 37690044.63 37690044.82 0.0136 0.0041

Uranus 98479-12-23 10:48 G 37690132.76 37690132.95 37690133.15 0.0136 0.0013

Uranus 98480-03-20 18:28 G 37690221.08 37690221.27 37690221.47 0.0136 0.0015

Uranus 98480-06-17 02:09 G 37690309.41 37690309.59 37690309.78 0.0136 0.0043

Uranus 98480-09-13 09:35 G 37690397.75 37690397.90 37690398.08 0.0136 0.0071

Uranus 98480-12-10 17:31 G 37690486.10 37690486.23 37690486.37 0.0136 0.0098

Earth 98481-01-23 16:48 G 37690530.09 37690530.20 37690530.30 0.2641 0.0445

Moon 98481-01-23 17:02 G 37690530.10 37690530.21 37690530.32 0.2648 0.0387 *

Uranus 98481-03-09 00:57 G 37690574.48 37690574.54 37690574.62 0.0136 0.0126

Jupiter 98481-10-11 21:35 G 37690791.28 37690791.40 37690791.53 0.0512 0.0061

Mars 98482-05-26 10:48 G 37691017.93 37691017.95 37691017.98 0.1942 0.1906

Venus 98484-08-31 11:16 G 37691845.87 37691845.97 37691846.07 0.3633 0.0036

Mars 98485-02-27 09:50 G 37692025.81 37692025.91 37692026.01 0.1599 0.0878

Mars 98487-02-02 10:48 G 37692730.85 37692730.95 37692731.05 0.1589 0.0768

Jupiter 98487-12-03 04:04 G 37693034.49 37693034.67 37693034.85 0.0514 0.0165

Saturn 98489-01-02 22:04 G 37693431.33 37693431.42 37693431.51 0.0287 0.0195

Saturn 98489-04-01 09:07 G 37693519.75 37693519.88 37693520.01 0.0285 0.0048

Saturn 98489-06-28 20:09 G 37693608.22 37693608.34 37693608.46 0.0284 0.0098

Saturn 98489-09-25 07:11 G 37693696.74 37693696.80 37693696.87 0.0283 0.0241

Venus 98490-03-17 02:09 G 37693869.50 37693869.59 37693869.67 0.3631 0.1869

Jupiter 98493-07-31 02:09 G 37695101.48 37695101.59 37695101.71 0.0512 0.0224

Jupiter 98493-10-28 05:45 G 37695190.67 37695190.74 37695190.81 0.0510 0.0412

Earth 98494-01-26 09:50 G 37695280.81 37695280.91 37695281.01 0.2640 0.1020

Moon 98494-01-26 10:33 G 37695280.84 37695280.94 37695281.04 0.2642 0.1137 *

Mars 98494-07-20 21:35 G 37695456.33 37695456.40 37695456.47 0.1603 0.1281

Mars 98496-06-24 22:33 G 37696161.33 37696161.44 37696161.55 0.1591 0.0372

Moon 98497-07-27 23:02 G 37696559.31 37696559.46 37696559.60 0.2696 0.1131

Earth 98497-07-28 00:14 G 37696559.36 37696559.51 37696559.66 0.2691 0.0888 *

Jupiter 98499-09-20 23:31 G 37697344.38 37697344.48 37697344.60 0.0513 0.0417

Mars 98503-02-14 05:16 G 37698585.59 37698585.72 37698585.84 0.1952 0.1281

Venus 98504-01-21 04:19 G 37698926.53 37698926.68 37698926.83 0.3741 0.1645

Saturn 98505-04-09 10:04 G 37699370.84 37699370.92 37699371.02 0.0277 0.0240

Jupiter 98505-05-20 06:43 G 37699411.70 37699411.78 37699411.87 0.0513 0.0388

Saturn 98505-07-07 10:04 G 37699459.73 37699459.92 37699460.11 0.0278 0.0038

Jupiter 98505-08-17 10:19 G 37699500.82 37699500.93 37699501.04 0.0511 0.0252

Saturn 98505-10-04 10:04 G 37699548.77 37699548.92 37699549.07 0.0279 0.0167

Mars 98505-11-16 10:19 G 37699591.81 37699591.93 37699592.04 0.1594 0.0045

Earth 98507-01-30 03:07 G 37700031.59 37700031.63 37700031.66 0.2639 0.2484

Moon 98507-01-30 03:35 G 37700031.63 37700031.65 37700031.68 0.2637 0.2534 *

Jupiter 98511-10-09 10:19 G 37701744.79 37701744.93 37701745.07 0.0515 0.0336

Mars 98512-07-05 20:38 G 37702015.19 37702015.36 37702015.53 0.1947 0.0252

Moon 98514-01-23 04:19 G 37702581.59 37702581.68 37702581.76 0.2649 0.1577

Earth 98514-01-23 04:19 G 37702581.60 37702581.68 37702581.77 0.2642 0.1602 *

Mars 98515-04-08 22:04 G 37703022.30 37703022.42 37703022.53 0.1596 0.0437

Mars 98517-03-13 23:02 G 37703727.38 37703727.46 37703727.53 0.1586 0.1212

Jupiter 98517-06-05 15:21 G 37703811.02 37703811.14 37703811.27 0.0511 0.0101

Saturn 98518-05-24 00:57 G 37704163.47 37704163.54 37704163.62 0.0286 0.0231

Saturn 98518-08-20 12:00 G 37704251.88 37704252.00 37704252.13 0.0285 0.0084

Saturn 98518-11-16 23:16 G 37704340.34 37704340.47 37704340.59 0.0284 0.0063

Saturn 98519-02-13 10:04 G 37704428.84 37704428.92 37704429.01 0.0283 0.0207

Uranus 98521-10-05 05:16 G 37705393.70 37705393.72 37705393.75 0.0141 0.0138

Mars 98521-11-25 12:00 G 37705444.93 37705445.00 37705445.06 0.1942 0.1794

Uranus 98522-01-01 08:38 G 37705481.79 37705481.86 37705481.94 0.0141 0.0117

Uranus 98522-03-30 12:00 G 37705569.91 37705570.00 37705570.10 0.0142 0.0096

Uranus 98522-06-26 15:21 G 37705658.04 37705658.14 37705658.26 0.0142 0.0075

Uranus 98522-09-22 18:43 G 37705746.17 37705746.28 37705746.41 0.0142 0.0055

Uranus 98522-12-19 22:19 G 37705834.30 37705834.43 37705834.56 0.0142 0.0033

Uranus 98523-03-18 01:40 G 37705922.44 37705922.57 37705922.70 0.0142 0.0012

Uranus 98523-06-14 05:02 G 37706010.58 37706010.71 37706010.84 0.0142 0.0009

Jupiter 98523-07-28 04:33 G 37706054.50 37706054.69 37706054.88 0.0514 0.0059

Uranus 98523-09-10 08:24 G 37706098.72 37706098.85 37706098.98 0.0142 0.0030

Neptune 98523-12-06 18:28 G 37706186.23 37706186.27 37706186.32 0.0088 0.0081

Uranus 98523-12-07 11:45 G 37706186.87 37706186.99 37706187.12 0.0142 0.0051

Neptune 98524-03-03 19:55 G 37706274.26 37706274.33 37706274.40 0.0088 0.0074

Uranus 98524-03-04 15:21 G 37706275.03 37706275.14 37706275.25 0.0142 0.0072

Neptune 98524-05-30 20:52 G 37706362.30 37706362.37 37706362.46 0.0088 0.0068

Uranus 98524-05-31 18:43 G 37706363.18 37706363.28 37706363.38 0.0142 0.0093

Neptune 98524-08-26 22:04 G 37706450.34 37706450.42 37706450.53 0.0088 0.0061

Uranus 98524-08-27 21:50 G 37706451.35 37706451.41 37706451.50 0.0142 0.0115

Mars 98524-08-29 09:50 G 37706452.81 37706452.91 37706453.01 0.1599 0.0837

Neptune 98524-11-22 23:16 G 37706538.38 37706538.47 37706538.59 0.0088 0.0054

Uranus 98524-11-24 01:26 G 37706539.53 37706539.56 37706539.60 0.0142 0.0136

Neptune 98525-02-19 00:43 G 37706626.42 37706626.53 37706626.65 0.0088 0.0047

Neptune 98525-05-18 01:55 G 37706714.47 37706714.58 37706714.70 0.0088 0.0040

Neptune 98525-08-14 03:21 G 37706802.52 37706802.64 37706802.76 0.0088 0.0033

Neptune 98525-11-10 04:33 G 37706890.57 37706890.69 37706890.82 0.0088 0.0026

Neptune 98526-02-06 05:45 G 37706978.61 37706978.74 37706978.87 0.0088 0.0019

Neptune 98526-05-05 06:57 G 37707066.67 37707066.79 37707066.93 0.0088 0.0013

Neptune 98526-08-01 08:24 G 37707154.72 37707154.85 37707154.98 0.0088 0.0005

Mars 98526-08-04 10:48 G 37707157.85 37707157.95 37707158.05 0.1589 0.0814

Neptune 98526-10-28 09:35 G 37707242.77 37707242.90 37707243.03 0.0088 0.0002

Neptune 98527-01-24 10:48 G 37707330.82 37707330.95 37707331.08 0.0088 0.0009

Earth 98527-01-25 21:35 G 37707332.29 37707332.40 37707332.50 0.2641 0.0185

Moon 98527-01-25 21:50 G 37707332.30 37707332.41 37707332.52 0.2647 0.0117 *

Neptune 98527-04-22 12:00 G 37707418.87 37707419.00 37707419.13 0.0088 0.0016

Neptune 98527-07-19 13:11 G 37707506.93 37707507.05 37707507.18 0.0088 0.0023

Neptune 98527-10-15 14:24 G 37707594.98 37707595.10 37707595.23 0.0088 0.0030

Neptune 98528-01-11 15:35 G 37707683.04 37707683.15 37707683.28 0.0088 0.0037

Neptune 98528-04-08 16:48 G 37707771.10 37707771.20 37707771.33 0.0088 0.0044

Neptune 98528-07-05 18:14 G 37707859.16 37707859.26 37707859.37 0.0088 0.0051

Neptune 98528-10-01 19:26 G 37707947.22 37707947.31 37707947.42 0.0088 0.0058

Neptune 98528-12-28 20:38 G 37708035.28 37708035.36 37708035.46 0.0088 0.0065

Jupiter 98529-03-24 20:24 G 37708121.22 37708121.35 37708121.47 0.0512 0.0056

Neptune 98529-03-26 21:50 G 37708123.35 37708123.41 37708123.50 0.0088 0.0072

Neptune 98529-06-22 23:02 G 37708211.42 37708211.46 37708211.53 0.0088 0.0079

Neptune 98529-09-19 00:43 G 37708299.50 37708299.53 37708299.56 0.0088 0.0085

Venus 98530-03-10 02:52 G 37708471.56 37708471.62 37708471.67 0.3637 0.3004

Mars 98534-01-19 21:35 G 37709883.33 37709883.40 37709883.47 0.1603 0.1240

Saturn 98534-11-24 10:04 G 37710191.74 37710191.92 37710192.11 0.0277 0.0081

Saturn 98535-02-21 10:04 G 37710280.75 37710280.92 37710281.09 0.0278 0.0123

Jupiter 98535-05-16 00:14 G 37710364.34 37710364.51 37710364.69 0.0514 0.0190

Venus 98535-09-23 17:45 G 37710495.14 37710495.24 37710495.33 0.3635 0.1168

Mars 98535-12-25 22:33 G 37710588.32 37710588.44 37710588.55 0.1591 0.0418

Earth 98540-01-28 14:38 G 37712083.02 37712083.11 37712083.20 0.2640 0.1313

Moon 98540-01-28 15:21 G 37712083.05 37712083.14 37712083.23 0.2640 0.1429 *

Jupiter 98541-01-11 00:43 G 37712431.42 37712431.53 37712431.64 0.0512 0.0225

Venus 98541-04-08 08:38 G 37712518.76 37712518.86 37712518.95 0.3632 0.0699

Jupiter 98541-04-10 04:04 G 37712520.60 37712520.67 37712520.75 0.0510 0.0411

Mars 98542-08-15 06:00 G 37713012.64 37713012.75 37713012.87 0.1952 0.1394

Moon 98543-07-30 06:00 G 37713361.60 37713361.75 37713361.91 0.2697 0.0355

Earth 98543-07-30 07:11 G 37713361.64 37713361.80 37713361.96 0.2691 0.0209 *

Mars 98545-05-17 10:19 G 37714018.81 37714018.93 37714019.05 0.1594 0.0025

Venus 98546-10-22 23:16 G 37714542.40 37714542.47 37714542.54 0.3630 0.2508

Jupiter 98547-03-03 20:38 G 37714674.26 37714674.36 37714674.46 0.0513 0.0430

Saturn 98547-10-11 03:50 G 37714895.62 37714895.66 37714895.70 0.0287 0.0270

Saturn 98548-01-07 14:52 G 37714984.01 37714984.12 37714984.24 0.0286 0.0122

Saturn 98548-04-05 01:55 G 37715072.46 37715072.58 37715072.71 0.0285 0.0026

Saturn 98548-07-02 12:57 G 37715160.94 37715161.04 37715161.15 0.0284 0.0169

Pluto 98548-11-21 14:09 G 37715303.04 37715303.09 37715303.19 0.0060 0.0056

Pluto 98549-02-17 15:21 G 37715391.04 37715391.14 37715391.29 0.0061 0.0046

Pluto 98549-05-16 17:02 G 37715479.06 37715479.21 37715479.37 0.0061 0.0035

Pluto 98549-08-12 18:14 G 37715567.10 37715567.26 37715567.44 0.0061 0.0025

Pluto 98549-11-08 19:26 G 37715655.14 37715655.31 37715655.50 0.0061 0.0015

Pluto 98550-02-04 20:52 G 37715743.19 37715743.37 37715743.56 0.0061 0.0004

Pluto 98550-05-03 22:04 G 37715831.24 37715831.42 37715831.61 0.0061 0.0006

Pluto 98550-07-30 23:16 G 37715919.30 37715919.47 37715919.66 0.0061 0.0017

Pluto 98550-10-27 00:28 G 37716007.36 37716007.52 37716007.70 0.0061 0.0027

Pluto 98551-01-23 01:40 G 37716095.43 37716095.57 37716095.73 0.0061 0.0038

Pluto 98551-04-21 02:38 G 37716183.52 37716183.61 37716183.75 0.0061 0.0048

Pluto 98551-07-18 04:04 G 37716271.63 37716271.67 37716271.74 0.0061 0.0058

Mars 98552-01-04 21:50 G 37716442.24 37716442.41 37716442.58 0.1947 0.0127

Jupiter 98552-10-30 05:16 G 37716741.64 37716741.72 37716741.80 0.0513 0.0390

Jupiter 98553-01-27 08:38 G 37716830.76 37716830.86 37716830.98 0.0511 0.0250

Mars 98554-10-07 22:04 G 37717449.30 37717449.42 37717449.53 0.1596 0.0389

Mars 98556-09-11 23:02 G 37718154.39 37718154.46 37718154.53 0.1586 0.1261

Jupiter 98559-03-21 07:40 G 37719074.67 37719074.82 37719074.96 0.0515 0.0326

Moon 98560-01-24 09:07 G 37719383.79 37719383.88 37719383.97 0.2649 0.1362

Earth 98560-01-24 09:07 G 37719383.79 37719383.88 37719383.97 0.2642 0.1304 *

Mars 98561-05-26 12:43 G 37719871.95 37719872.03 37719872.11 0.1942 0.1687

Uranus 98563-01-25 10:19 G 37720480.85 37720480.93 37720481.02 0.0136 0.0121

Uranus 98563-04-23 18:00 G 37720569.11 37720569.25 37720569.40 0.0136 0.0093

Uranus 98563-07-21 01:55 G 37720657.41 37720657.58 37720657.75 0.0136 0.0065

Uranus 98563-10-17 09:35 G 37720745.71 37720745.90 37720746.09 0.0136 0.0037

Uranus 98564-01-13 17:16 G 37720834.03 37720834.22 37720834.42 0.0136 0.0009

Mars 98564-02-28 09:35 G 37720879.80 37720879.90 37720880.00 0.1599 0.0796

Uranus 98564-04-11 00:57 G 37720922.35 37720922.54 37720922.74 0.0136 0.0019

Saturn 98564-04-12 10:04 G 37720923.75 37720923.92 37720924.09 0.0277 0.0128

Uranus 98564-07-08 08:38 G 37721010.68 37721010.86 37721011.05 0.0136 0.0047

Saturn 98564-07-10 09:50 G 37721012.73 37721012.91 37721013.10 0.0278 0.0076

Uranus 98564-10-04 16:04 G 37721099.02 37721099.17 37721099.34 0.0136 0.0075

Jupiter 98564-11-15 13:26 G 37721140.93 37721141.06 37721141.18 0.0511 0.0087

Uranus 98564-12-31 23:45 G 37721187.37 37721187.49 37721187.63 0.0136 0.0103

Uranus 98565-03-30 07:26 G 37721275.77 37721275.81 37721275.87 0.0136 0.0130

Mars 98566-02-02 10:48 G 37721584.85 37721584.95 37721585.05 0.1588 0.0861

Jupiter 98571-01-07 02:52 G 37723384.43 37723384.62 37723384.80 0.0514 0.0067

Earth 98573-01-26 02:09 G 37724134.48 37724134.59 37724134.70 0.2641 0.0166

Moon 98573-01-26 02:38 G 37724134.50 37724134.61 37724134.72 0.2646 0.0260 *

Mars 98573-07-20 21:35 G 37724310.32 37724310.40 37724310.47 0.1602 0.1198

Mars 98575-06-25 22:19 G 37725015.32 37725015.43 37725015.55 0.1591 0.0462

Jupiter 98576-09-03 18:28 G 37725451.14 37725451.27 37725451.39 0.0512 0.0070

Saturn 98577-05-26 18:14 G 37725716.15 37725716.26 37725716.37 0.0286 0.0154

Saturn 98577-08-23 05:16 G 37725804.59 37725804.72 37725804.85 0.0285 0.0008

Saturn 98577-11-19 16:19 G 37725893.07 37725893.18 37725893.29 0.0283 0.0137

Saturn 98578-02-16 03:21 G 37725981.62 37725981.64 37725981.65 0.0282 0.0279

Mars 98582-02-13 07:11 G 37727439.69 37727439.80 37727439.90 0.1952 0.1513

Jupiter 98582-10-25 20:52 G 37727694.20 37727694.37 37727694.54 0.0513 0.0209

Mars 98582-12-11 09:07 G 37727740.88 37727740.88 37727740.89 0.1606 0.1604

Mars 98584-11-15 10:19 G 37728445.81 37728445.93 37728446.04 0.1593 0.0076

Earth 98586-01-28 19:26 G 37728885.22 37728885.31 37728885.39 0.2640 0.1612

Moon 98586-01-28 20:09 G 37728885.25 37728885.34 37728885.42 0.2640 0.1708 *

Venus 98586-10-15 00:00 G 37729144.43 37729144.50 37729144.58 0.3636 0.2355

Jupiter 98588-06-22 23:16 G 37729761.36 37729761.47 37729761.58 0.0512 0.0225

Jupiter 98588-09-20 02:38 G 37729850.54 37729850.61 37729850.69 0.0510 0.0413

Moon 98589-07-30 13:26 G 37730163.91 37730164.06 37730164.22 0.2698 0.0449

Earth 98589-07-30 14:09 G 37730163.93 37730164.09 37730164.25 0.2691 0.0493 *

Mars 98591-07-05 22:19 G 37730869.26 37730869.43 37730869.59 0.1948 0.0052

Venus 98592-04-29 14:52 G 37731168.02 37731168.12 37731168.22 0.3634 0.0508

Moon 98593-01-21 20:24 G 37731435.33 37731435.35 37731435.37 0.2648 0.2580

Earth 98593-01-21 20:38 G 37731435.33 37731435.36 37731435.40 0.2643 0.2458 *

Saturn 98593-08-30 10:19 G 37731655.78 37731655.93 37731656.09 0.0277 0.0169

Saturn 98593-11-27 10:19 G 37731744.74 37731744.93 37731745.12 0.0278 0.0035

Saturn 98594-02-24 10:19 G 37731833.83 37731833.93 37731834.02 0.0279 0.0240

Mars 98594-04-07 21:50 G 37731876.30 37731876.41 37731876.53 0.1596 0.0350

Jupiter 98594-08-13 16:48 G 37732004.12 37732004.20 37732004.28 0.0513 0.0458

Mars 98596-03-12 23:02 G 37732581.39 37732581.46 37732581.52 0.1586 0.1306

Venus 98597-11-13 05:45 G 37733191.65 37733191.74 37733191.83 0.3632 0.1326

Jupiter 98600-04-12 03:21 G 37734071.57 37734071.64 37734071.73 0.0513 0.0396

Jupiter 98600-07-10 07:11 G 37734160.68 37734160.80 37734160.91 0.0511 0.0244

Mars 98600-11-25 13:55 G 37734298.98 37734299.08 37734299.18 0.1943 0.1559

Venus 98603-05-30 20:38 G 37735215.31 37735215.36 37735215.41 0.3630 0.3150

Mars 98603-08-30 09:35 G 37735306.80 37735306.90 37735307.01 0.1599 0.0750

Mars 98605-08-04 10:48 G 37736011.85 37736011.95 37736012.04 0.1588 0.0907

Uranus 98605-10-26 12:43 G 37736094.99 37736095.03 37736095.08 0.0141 0.0132

Uranus 98606-01-22 16:04 G 37736183.10 37736183.17 37736183.26 0.0142 0.0111

Moon 98606-01-25 13:55 G 37736185.98 37736186.08 37736186.18 0.2649 0.0934

Earth 98606-01-25 13:55 G 37736185.98 37736186.08 37736186.18 0.2642 0.1010 *

Uranus 98606-04-20 19:40 G 37736271.22 37736271.32 37736271.42 0.0142 0.0090

Uranus 98606-07-17 23:02 G 37736359.34 37736359.46 37736359.57 0.0142 0.0069

Jupiter 98606-09-01 04:19 G 37736404.53 37736404.68 37736404.83 0.0515 0.0309

Uranus 98606-10-14 02:24 G 37736447.48 37736447.60 37736447.72 0.0142 0.0048

Saturn 98606-10-14 21:21 G 37736448.29 37736448.39 37736448.48 0.0286 0.0190

Uranus 98607-01-10 05:45 G 37736535.61 37736535.74 37736535.87 0.0142 0.0027

Saturn 98607-01-11 08:24 G 37736536.72 37736536.85 37736536.98 0.0285 0.0043

Uranus 98607-04-08 09:07 G 37736623.75 37736623.88 37736624.01 0.0142 0.0007

Saturn 98607-04-09 19:26 G 37736625.19 37736625.31 37736625.43 0.0284 0.0103

Uranus 98607-07-05 12:28 G 37736711.89 37736712.02 37736712.15 0.0142 0.0016

Saturn 98607-07-07 06:28 G 37736713.71 37736713.77 37736713.83 0.0283 0.0246

Neptune 98607-08-19 03:35 G 37736756.65 37736756.65 37736756.68 0.0090 0.0090

Uranus 98607-10-01 16:04 G 37736800.04 37736800.17 37736800.29 0.0142 0.0036

Neptune 98607-11-15 07:26 G 37736844.73 37736844.81 37736844.92 0.0090 0.0079

Uranus 98607-12-28 19:26 G 37736888.19 37736888.31 37736888.43 0.0142 0.0057

Neptune 98608-02-11 11:16 G 37736932.86 37736932.97 37736933.11 0.0090 0.0068

Uranus 98608-03-25 22:48 G 37736976.34 37736976.45 37736976.56 0.0142 0.0078

Neptune 98608-05-09 15:07 G 37737020.99 37737021.13 37737021.30 0.0090 0.0057

Uranus 98608-06-22 01:55 G 37737064.50 37737064.58 37737064.69 0.0142 0.0101

Neptune 98608-08-05 18:57 G 37737109.13 37737109.29 37737109.47 0.0090 0.0046

Uranus 98608-09-18 05:31 G 37737152.67 37737152.73 37737152.80 0.0142 0.0121

Neptune 98608-11-01 22:48 G 37737197.28 37737197.45 37737197.65 0.0090 0.0035

Uranus 98608-12-15 09:07 G 37737240.88 37737240.88 37737240.88 0.0142 0.0142

Neptune 98609-01-29 02:38 G 37737285.43 37737285.61 37737285.81 0.0090 0.0024

Neptune 98609-04-27 06:28 G 37737373.59 37737373.77 37737373.98 0.0090 0.0013

Neptune 98609-07-24 10:33 G 37737461.74 37737461.94 37737462.14 0.0090 0.0001

Neptune 98609-10-20 14:24 G 37737549.90 37737550.10 37737550.29 0.0090 0.0010

Neptune 98610-01-16 18:00 G 37737638.06 37737638.25 37737638.45 0.0090 0.0021

Neptune 98610-04-14 21:50 G 37737726.23 37737726.41 37737726.60 0.0090 0.0032

Neptune 98610-07-12 01:26 G 37737814.40 37737814.56 37737814.74 0.0090 0.0043

Neptune 98610-10-08 05:16 G 37737902.57 37737902.72 37737902.89 0.0090 0.0054

Neptune 98611-01-04 08:52 G 37737990.75 37737990.87 37737991.02 0.0090 0.0065

Neptune 98611-04-02 12:43 G 37738078.94 37738079.03 37738079.15 0.0090 0.0076

Neptune 98611-06-29 16:19 G 37738167.15 37738167.18 37738167.25 0.0090 0.0087

Venus 98611-09-18 20:52 G 37738248.22 37738248.37 37738248.52 0.3740 0.1603

Jupiter 98612-04-28 11:45 G 37738470.86 37738470.99 37738471.11 0.0511 0.0081

Mars 98613-01-19 21:35 G 37738737.32 37738737.40 37738737.48 0.1602 0.1154

Mars 98614-12-25 22:33 G 37739442.32 37739442.44 37739442.55 0.1591 0.0510

Jupiter 98618-06-19 23:45 G 37740714.31 37740714.49 37740714.68 0.0514 0.0055

Earth 98619-01-28 06:57 G 37740936.68 37740936.79 37740936.90 0.2641 0.0450

Moon 98619-01-28 07:26 G 37740936.71 37740936.81 37740936.92 0.2644 0.0495 *

Mars 98621-08-15 07:55 G 37741866.74 37741866.83 37741866.92 0.1952 0.1626

Mars 98622-06-12 09:07 G 37742167.86 37742167.88 37742167.91 0.1606 0.1561

Moon 98622-07-29 10:19 G 37742214.90 37742214.93 37742214.96 0.2694 0.2636

Earth 98622-07-29 11:45 G 37742214.94 37742214.99 37742215.05 0.2690 0.2511 *

Saturn 98623-01-18 10:19 G 37742387.81 37742387.93 37742388.05 0.0277 0.0216

Saturn 98623-04-17 10:19 G 37742476.73 37742476.93 37742477.12 0.0278 0.0014

Saturn 98623-07-15 09:50 G 37742565.79 37742565.91 37742566.06 0.0279 0.0194

Jupiter 98624-02-15 16:04 G 37742781.05 37742781.17 37742781.30 0.0512 0.0087

Mars 98624-05-17 10:04 G 37742872.81 37742872.92 37742873.04 0.1593 0.0119

Jupiter 98630-04-07 18:57 G 37745024.12 37745024.29 37745024.46 0.0513 0.0206

Mars 98631-01-04 23:31 G 37745296.31 37745296.48 37745296.65 0.1948 0.0096

Earth 98632-01-31 00:00 G 37745687.43 37745687.50 37745687.58 0.2640 0.1909

Moon 98632-01-31 00:43 G 37745687.47 37745687.53 37745687.60 0.2639 0.2048 *

Mars 98633-10-07 21:50 G 37746303.30 37746303.41 37746303.53 0.1596 0.0303

Moon 98635-08-01 20:52 G 37746966.22 37746966.37 37746966.51 0.2699 0.1071

Earth 98635-08-01 21:07 G 37746966.23 37746966.38 37746966.52 0.2692 0.1184 *

Mars 98635-09-12 23:02 G 37747008.40 37747008.46 37747008.52 0.1586 0.1352

Jupiter 98635-12-04 21:07 G 37747091.27 37747091.38 37747091.49 0.0513 0.0241

Jupiter 98636-03-03 00:43 G 37747180.45 37747180.53 37747180.61 0.0511 0.0397

Saturn 98636-03-03 00:43 G 37747180.45 37747180.53 37747180.62 0.0286 0.0219 *

Saturn 98636-05-30 12:00 G 37747268.87 37747269.00 37747269.12 0.0285 0.0072

Saturn 98636-08-26 23:02 G 37747357.33 37747357.46 37747357.58 0.0284 0.0074

Saturn 98636-11-23 09:50 G 37747445.83 37747445.91 37747446.00 0.0283 0.0217

Venus 98637-11-06 06:28 G 37747793.75 37747793.77 37747793.79 0.3638 0.3549

Moon 98639-01-24 01:11 G 37748237.49 37748237.55 37748237.61 0.2649 0.2179

Earth 98639-01-24 01:26 G 37748237.50 37748237.56 37748237.62 0.2643 0.2165 *

Mars 98640-05-26 14:38 G 37748726.00 37748726.11 37748726.22 0.1942 0.1461

Jupiter 98642-01-24 13:11 G 37749333.99 37749334.05 37749334.12 0.0513 0.0478

Pluto 98642-12-05 00:43 G 37749648.46 37749648.53 37749648.63 0.0084 0.0067

Mars 98643-02-28 09:35 G 37749733.80 37749733.90 37749734.01 0.1599 0.0706

Pluto 98643-03-03 02:09 G 37749736.48 37749736.59 37749736.71 0.0084 0.0047

Venus 98643-05-22 21:21 G 37749817.30 37749817.39 37749817.48 0.3635 0.1699

Pluto 98643-05-30 03:21 G 37749824.52 37749824.64 37749824.78 0.0083 0.0028

Pluto 98643-08-26 04:48 G 37749912.56 37749912.70 37749912.83 0.0083 0.0008

Pluto 98643-11-22 06:00 G 37750000.62 37750000.75 37750000.89 0.0083 0.0012

Pluto 98644-02-18 07:11 G 37750088.68 37750088.80 37750088.93 0.0083 0.0031

Pluto 98644-05-16 08:24 G 37750176.75 37750176.85 37750176.96 0.0083 0.0050

Pluto 98644-08-12 09:35 G 37750264.83 37750264.90 37750264.98 0.0083 0.0069

Mars 98645-02-02 10:48 G 37750438.85 37750438.95 37750439.04 0.1588 0.0954

Uranus 98647-02-15 17:31 G 37751182.12 37751182.23 37751182.34 0.0136 0.0114

Uranus 98647-05-15 01:11 G 37751270.40 37751270.55 37751270.70 0.0136 0.0086

Uranus 98647-08-11 08:52 G 37751358.70 37751358.87 37751359.05 0.0136 0.0058

Jupiter 98647-09-23 01:55 G 37751401.50 37751401.58 37751401.66 0.0513 0.0399

Uranus 98647-11-07 16:33 G 37751447.00 37751447.19 37751447.39 0.0136 0.0030

Jupiter 98647-12-21 05:31 G 37751490.62 37751490.73 37751490.84 0.0511 0.0241

Uranus 98648-02-04 00:14 G 37751535.32 37751535.51 37751535.71 0.0136 0.0004

Uranus 98648-05-02 07:55 G 37751623.64 37751623.83 37751624.03 0.0136 0.0026

Uranus 98648-07-29 15:35 G 37751711.98 37751712.15 37751712.33 0.0136 0.0054

Uranus 98648-10-25 23:02 G 37751800.32 37751800.46 37751800.63 0.0136 0.0082

Venus 98648-12-05 12:14 G 37751840.91 37751841.01 37751841.11 0.3633 0.0157

Uranus 98649-01-22 06:43 G 37751888.68 37751888.78 37751888.91 0.0136 0.0110

Earth 98652-01-26 18:28 G 37752988.17 37752988.27 37752988.38 0.2642 0.0720

Moon 98652-01-26 18:43 G 37752988.18 37752988.28 37752988.38 0.2648 0.0746 *

Saturn 98652-06-06 10:48 G 37753119.88 37753119.95 37753120.02 0.0276 0.0256

Mars 98652-07-20 21:21 G 37753164.31 37753164.39 37753164.48 0.1602 0.1111

Saturn 98652-09-03 10:48 G 37753208.76 37753208.95 37753209.14 0.0277 0.0053

Saturn 98652-12-01 10:33 G 37753297.79 37753297.94 37753298.11 0.0279 0.0153

Jupiter 98654-02-11 00:14 G 37753734.35 37753734.51 37753734.67 0.0514 0.0278

Venus 98654-06-21 03:07 G 37753864.54 37753864.63 37753864.71 0.3631 0.1976

Mars 98654-06-25 22:19 G 37753869.32 37753869.43 37753869.54 0.1591 0.0553

Jupiter 98659-10-09 09:50 G 37755800.78 37755800.91 37755801.03 0.0511 0.0072

Mars 98661-02-13 08:52 G 37756293.79 37756293.87 37756293.94 0.1953 0.1739

Mars 98661-12-11 09:07 G 37756594.85 37756594.88 37756594.92 0.1606 0.1516

Mars 98663-11-16 10:04 G 37757299.81 37757299.92 37757300.04 0.1593 0.0162

Earth 98665-01-28 11:45 G 37757738.88 37757738.99 37757739.09 0.2641 0.0747

Moon 98665-01-28 12:14 G 37757738.91 37757739.01 37757739.12 0.2643 0.0919 *

Saturn 98665-07-21 04:04 G 37757912.61 37757912.67 37757912.73 0.0287 0.0253

Saturn 98665-10-17 15:07 G 37758001.02 37758001.13 37758001.25 0.0286 0.0105

Jupiter 98665-11-29 20:24 G 37758044.16 37758044.35 37758044.54 0.0514 0.0034

Saturn 98666-01-14 02:24 G 37758089.47 37758089.60 37758089.72 0.0284 0.0042

Saturn 98666-04-12 13:11 G 37758177.96 37758178.05 37758178.15 0.0283 0.0185

Venus 98668-04-25 00:00 G 37758921.35 37758921.50 37758921.66 0.3741 0.1027

Moon 98668-07-29 17:31 G 37759017.14 37759017.23 37759017.33 0.2695 0.2109

Earth 98668-07-29 18:57 G 37759017.17 37759017.29 37759017.40 0.2690 0.1810 *

Mars 98670-07-06 00:28 G 37759723.36 37759723.52 37759723.69 0.1948 0.0214

Jupiter 98671-07-28 14:24 G 37760110.98 37760111.10 37760111.22 0.0512 0.0091

Mars 98673-04-07 21:50 G 37760730.30 37760730.41 37760730.53 0.1596 0.0257

Mars 98675-03-13 23:02 G 37761435.41 37761435.46 37761435.51 0.1586 0.1401

Jupiter 98677-09-17 16:04 G 37762354.00 37762354.17 37762354.34 0.0513 0.0219

Earth 98678-01-31 04:48 G 37762489.64 37762489.70 37762489.76 0.2640 0.2212

Moon 98678-01-31 05:31 G 37762489.67 37762489.73 37762489.78 0.2638 0.2265 *

Mars 98679-11-25 15:35 G 37763153.03 37763153.15 37763153.27 0.1943 0.1339

Moon 98681-08-02 03:50 G 37763768.55 37763768.66 37763768.77 0.2699 0.1956

Earth 98681-08-02 04:04 G 37763768.55 37763768.67 37763768.78 0.2692 0.1874 *

Saturn 98682-01-21 10:33 G 37763940.76 37763940.94 37763941.12 0.0278 0.0101

Saturn 98682-04-20 10:33 G 37764029.76 37764029.94 37764030.11 0.0279 0.0104

Mars 98682-08-29 09:35 G 37764160.79 37764160.90 37764161.01 0.1599 0.0662

Jupiter 98683-05-16 18:43 G 37764421.18 37764421.28 37764421.39 0.0513 0.0259

Jupiter 98683-08-13 22:19 G 37764510.35 37764510.43 37764510.52 0.0511 0.0380

Mars 98684-08-03 10:33 G 37764865.85 37764865.94 37764866.03 0.1588 0.1000

Moon 98685-01-24 06:00 G 37765039.68 37765039.75 37765039.82 0.2650 0.1924

Earth 98685-01-24 06:14 G 37765039.68 37765039.76 37765039.83 0.2643 0.1872 *

Neptune 98688-06-06 17:02 G 37766269.19 37766269.21 37766269.25 0.0088 0.0085

Neptune 98688-09-02 18:14 G 37766357.21 37766357.26 37766357.33 0.0088 0.0078

Neptune 98688-11-29 19:40 G 37766445.25 37766445.32 37766445.40 0.0088 0.0071

Neptune 98689-02-25 20:52 G 37766533.28 37766533.37 37766533.46 0.0088 0.0064

Neptune 98689-05-24 21:50 G 37766621.33 37766621.41 37766621.52 0.0088 0.0058

Jupiter 98689-07-06 11:16 G 37766663.90 37766663.97 37766664.04 0.0513 0.0475

Neptune 98689-08-20 23:16 G 37766709.37 37766709.47 37766709.58 0.0088 0.0051

Uranus 98689-11-15 19:55 G 37766796.28 37766796.33 37766796.39 0.0142 0.0127

Neptune 98689-11-17 00:28 G 37766797.41 37766797.52 37766797.64 0.0088 0.0044

Uranus 98690-02-11 23:16 G 37766884.39 37766884.47 37766884.56 0.0142 0.0106

Neptune 98690-02-13 01:40 G 37766885.46 37766885.57 37766885.70 0.0088 0.0037

Uranus 98690-05-11 02:52 G 37766972.51 37766972.62 37766972.72 0.0142 0.0085

Neptune 98690-05-12 03:07 G 37766973.51 37766973.63 37766973.76 0.0088 0.0030

Uranus 98690-08-07 06:14 G 37767060.64 37767060.76 37767060.88 0.0142 0.0064

Neptune 98690-08-08 04:19 G 37767061.56 37767061.68 37767061.81 0.0088 0.0023

Uranus 98690-11-03 09:35 G 37767148.78 37767148.90 37767149.03 0.0142 0.0043

Neptune 98690-11-04 05:45 G 37767149.61 37767149.74 37767149.87 0.0088 0.0016

Uranus 98691-01-30 12:57 G 37767236.91 37767237.04 37767237.17 0.0142 0.0022

Neptune 98691-01-31 06:57 G 37767237.66 37767237.79 37767237.92 0.0088 0.0009

Uranus 98691-04-28 16:33 G 37767325.05 37767325.19 37767325.32 0.0142 0.0005

Neptune 98691-04-29 08:09 G 37767325.71 37767325.84 37767325.97 0.0088 0.0002

Uranus 98691-07-25 19:55 G 37767413.20 37767413.33 37767413.46 0.0142 0.0020

Neptune 98691-07-26 09:21 G 37767413.76 37767413.89 37767414.02 0.0088 0.0005

Uranus 98691-10-21 23:16 G 37767501.35 37767501.47 37767501.60 0.0142 0.0041

Neptune 98691-10-22 10:33 G 37767501.81 37767501.94 37767502.08 0.0088 0.0012

Uranus 98692-01-18 02:38 G 37767589.50 37767589.61 37767589.73 0.0142 0.0063

Neptune 98692-01-18 11:45 G 37767589.87 37767589.99 37767590.13 0.0088 0.0019

Mars 98692-01-19 21:21 G 37767591.31 37767591.39 37767591.48 0.1602 0.1067

Uranus 98692-04-15 06:00 G 37767677.65 37767677.75 37767677.86 0.0142 0.0084

Neptune 98692-04-15 12:57 G 37767677.92 37767678.04 37767678.17 0.0088 0.0026

Uranus 98692-07-12 09:21 G 37767765.81 37767765.89 37767765.98 0.0142 0.0105

Neptune 98692-07-12 14:24 G 37767765.98 37767766.10 37767766.22 0.0088 0.0033 *

Uranus 98692-10-08 12:57 G 37767853.98 37767854.04 37767854.10 0.0142 0.0126

Neptune 98692-10-08 15:35 G 37767854.04 37767854.15 37767854.27 0.0088 0.0040 *

Neptune 98693-01-04 16:48 G 37767942.09 37767942.20 37767942.32 0.0088 0.0047

Neptune 98693-04-02 18:00 G 37768030.15 37768030.25 37768030.36 0.0088 0.0054

Neptune 98693-06-29 19:11 G 37768118.21 37768118.30 37768118.40 0.0088 0.0061

Neptune 98693-09-25 20:24 G 37768206.28 37768206.35 37768206.44 0.0088 0.0068

Neptune 98693-12-22 21:35 G 37768294.35 37768294.40 37768294.48 0.0088 0.0075

Mars 98693-12-24 22:19 G 37768296.32 37768296.43 37768296.54 0.1591 0.0595

Neptune 98694-03-20 22:48 G 37768382.42 37768382.45 37768382.51 0.0088 0.0082

Venus 98694-06-13 03:35 G 37768466.59 37768466.65 37768466.71 0.3637 0.2893

Saturn 98694-12-08 07:26 G 37768644.80 37768644.81 37768644.83 0.0287 0.0282

Jupiter 98695-03-04 23:45 G 37768731.42 37768731.49 37768731.56 0.0513 0.0416

Saturn 98695-03-06 18:43 G 37768733.17 37768733.28 37768733.39 0.0285 0.0134

Jupiter 98695-06-02 03:21 G 37768820.53 37768820.64 37768820.75 0.0511 0.0225

Saturn 98695-06-03 05:45 G 37768821.61 37768821.74 37768821.87 0.0284 0.0013

Saturn 98695-08-30 16:48 G 37768910.09 37768910.20 37768910.31 0.0283 0.0156

Earth 98698-01-26 23:16 G 37769790.36 37769790.47 37769790.58 0.2642 0.0420

Moon 98698-01-26 23:31 G 37769790.38 37769790.48 37769790.59 0.2647 0.0344 *

Venus 98699-12-27 18:28 G 37770490.18 37770490.27 37770490.37 0.3635 0.1052

Mars 98700-08-15 09:50 G 37770720.86 37770720.91 37770720.96 0.1952 0.1859

Mars 98701-06-12 09:07 G 37771021.84 37771021.88 37771021.92 0.1606 0.1474

Jupiter 98701-07-24 20:52 G 37771064.21 37771064.37 37771064.53 0.0514 0.0259

Mars 98703-05-18 10:04 G 37771726.81 37771726.92 37771727.04 0.1593 0.0198

Venus 98705-07-13 09:21 G 37772513.80 37772513.89 37772513.99 0.3633 0.0808

Jupiter 98707-03-22 08:09 G 37773130.72 37773130.84 37773130.97 0.0512 0.0069

Mars 98710-01-05 01:11 G 37774150.38 37774150.55 37774150.71 0.1948 0.0313

Venus 98711-01-27 00:14 G 37774537.45 37774537.51 37774537.58 0.3631 0.2623

Earth 98711-01-30 16:19 G 37774541.08 37774541.18 37774541.28 0.2640 0.1048

Moon 98711-01-30 17:02 G 37774541.11 37774541.21 37774541.31 0.2643 0.1090 *

Saturn 98711-06-11 10:33 G 37774672.78 37774672.94 37774673.11 0.0277 0.0145

Saturn 98711-09-08 10:33 G 37774761.75 37774761.94 37774762.13 0.0278 0.0059

Saturn 98711-12-06 10:19 G 37774850.89 37774850.93 37774851.00 0.0279 0.0267

Mars 98712-10-07 21:50 G 37775157.29 37775157.41 37775157.53 0.1596 0.0211

Jupiter 98713-05-12 16:33 G 37775374.00 37775374.19 37775374.38 0.0514 0.0008

Moon 98714-08-01 00:43 G 37775819.39 37775819.53 37775819.68 0.2696 0.1156

Earth 98714-08-01 01:40 G 37775819.43 37775819.57 37775819.72 0.2690 0.1124 *

Mars 98714-09-12 23:02 G 37775862.41 37775862.46 37775862.50 0.1586 0.1448

Jupiter 98719-01-08 12:28 G 37777440.90 37777441.02 37777441.15 0.0512 0.0100

Mars 98719-05-27 16:33 G 37777580.07 37777580.19 37777580.32 0.1943 0.1222

Mars 98722-02-28 09:35 G 37778587.79 37778587.90 37778588.01 0.1599 0.0615

Earth 98724-02-02 09:35 G 37779291.87 37779291.90 37779291.93 0.2639 0.2509

Mars 98724-02-03 10:33 G 37779292.86 37779292.94 37779293.03 0.1588 0.1046

Saturn 98724-07-24 22:04 G 37779465.32 37779465.42 37779465.53 0.0286 0.0166

Saturn 98724-10-21 09:07 G 37779553.76 37779553.88 37779554.01 0.0285 0.0022

Venus 98724-12-01 03:35 G 37779594.63 37779594.65 37779594.66 0.3742 0.3714

Saturn 98725-01-17 20:09 G 37779642.23 37779642.34 37779642.46 0.0284 0.0126

Jupiter 98725-02-28 12:43 G 37779683.86 37779684.03 37779684.19 0.0514 0.0237

Saturn 98725-04-16 07:11 G 37779730.76 37779730.80 37779730.84 0.0282 0.0268

Moon 98727-08-04 10:48 G 37780570.89 37780570.95 37780571.02 0.2699 0.2467

Earth 98727-08-04 10:48 G 37780570.91 37780570.95 37780571.00 0.2692 0.2566 *

Jupiter 98730-10-27 17:02 G 37781751.11 37781751.21 37781751.32 0.0512 0.0264

Uranus 98730-12-10 16:19 G 37781795.18 37781795.18 37781795.21 0.0136 0.0136

Jupiter 98731-01-24 20:38 G 37781840.28 37781840.36 37781840.45 0.0510 0.0374

Moon 98731-01-26 10:48 G 37781841.87 37781841.95 37781842.04 0.2650 0.1599

Earth 98731-01-26 11:02 G 37781841.87 37781841.96 37781842.04 0.2643 0.1579 *

Uranus 98731-03-09 00:14 G 37781883.40 37781883.51 37781883.64 0.0136 0.0107

Uranus 98731-06-05 07:55 G 37781971.68 37781971.83 37781972.00 0.0136 0.0080

Mars 98731-07-21 21:21 G 37782018.30 37782018.39 37782018.48 0.1602 0.1022

Uranus 98731-09-01 15:50 G 37782059.98 37782060.16 37782060.34 0.0136 0.0051

Uranus 98731-11-28 23:31 G 37782148.29 37782148.48 37782148.67 0.0136 0.0023

Uranus 98732-02-25 07:11 G 37782236.61 37782236.80 37782237.00 0.0136 0.0005

Uranus 98732-05-23 14:52 G 37782324.93 37782325.12 37782325.31 0.0136 0.0033

Uranus 98732-08-19 22:33 G 37782413.27 37782413.44 37782413.62 0.0136 0.0060

Uranus 98732-11-16 06:00 G 37782501.61 37782501.75 37782501.91 0.0136 0.0088

Uranus 98733-02-12 13:26 G 37782589.98 37782590.06 37782590.18 0.0136 0.0116

Mars 98733-06-25 22:19 G 37782723.33 37782723.43 37782723.54 0.1590 0.0646

Jupiter 98736-12-17 08:24 G 37783993.79 37783993.85 37783993.91 0.0513 0.0485

Saturn 98740-10-28 09:50 G 37785404.78 37785404.91 37785405.05 0.0277 0.0196

Mars 98740-12-11 09:07 G 37785448.83 37785448.88 37785448.93 0.1605 0.1432

Saturn 98741-01-25 09:50 G 37785493.72 37785493.91 37785494.10 0.0278 0.0009

Saturn 98741-04-24 09:50 G 37785582.79 37785582.91 37785583.03 0.0279 0.0214

Jupiter 98742-08-15 21:35 G 37786061.33 37786061.40 37786061.47 0.0513 0.0430

Jupiter 98742-11-13 01:11 G 37786150.44 37786150.55 37786150.67 0.0511 0.0210

Mars 98742-11-16 10:04 G 37786153.81 37786153.92 37786154.04 0.1593 0.0240

Earth 98744-01-29 04:04 G 37786592.56 37786592.67 37786592.78 0.2641 0.0127

Moon 98744-01-29 04:33 G 37786592.58 37786592.69 37786592.80 0.2646 0.0087 *

Jupiter 98749-01-03 18:57 G 37788394.13 37788394.29 37788394.45 0.0514 0.0264

Mars 98749-07-06 02:09 G 37788577.43 37788577.59 37788577.76 0.1948 0.0443

Venus 98751-01-19 00:57 G 37789139.46 37789139.54 37789139.62 0.3636 0.2231

Mars 98752-04-07 21:50 G 37789584.29 37789584.41 37789584.52 0.1596 0.0169

Saturn 98753-12-12 01:26 G 37790197.47 37790197.56 37790197.65 0.0286 0.0198

Saturn 98754-03-10 12:28 G 37790285.90 37790286.02 37790286.15 0.0285 0.0052

Mars 98754-03-13 22:48 G 37790289.42 37790289.45 37790289.49 0.1586 0.1493

Saturn 98754-06-06 23:31 G 37790374.36 37790374.48 37790374.61 0.0283 0.0095

Jupiter 98754-09-01 06:00 G 37790460.63 37790460.75 37790460.88 0.0512 0.0057

Saturn 98754-09-03 10:33 G 37790462.87 37790462.94 37790463.01 0.0282 0.0238

Venus 98756-08-03 15:50 G 37791163.06 37791163.16 37791163.26 0.3634 0.0392

Earth 98757-01-30 21:07 G 37791343.29 37791343.38 37791343.47 0.2640 0.1338

Moon 98757-01-30 21:50 G 37791343.32 37791343.41 37791343.50 0.2642 0.1502 *

Mars 98758-11-25 17:31 G 37792007.09 37792007.23 37792007.37 0.1943 0.1114

Moon 98760-08-01 08:09 G 37792621.68 37792621.84 37792621.99 0.2697 0.0613

Earth 98760-08-01 08:38 G 37792621.70 37792621.86 37792622.02 0.2691 0.0424 *

Jupiter 98760-10-22 13:40 G 37792703.88 37792704.07 37792704.25 0.0513 0.0012

Mars 98761-08-29 09:35 G 37793014.79 37793014.90 37793015.01 0.1599 0.0572

Venus 98762-02-17 06:43 G 37793186.69 37793186.78 37793186.87 0.3632 0.1445

Mars 98763-08-04 10:33 G 37793719.86 37793719.94 37793720.03 0.1588 0.1091

Jupiter 98766-06-20 11:02 G 37794770.83 37794770.96 37794771.08 0.0513 0.0103

Venus 98767-09-02 21:35 G 37795210.36 37795210.40 37795210.44 0.3630 0.3264

Saturn 98770-03-17 09:35 G 37796136.82 37796136.90 37796137.00 0.0277 0.0243

Saturn 98770-06-14 09:35 G 37796225.71 37796225.90 37796226.09 0.0278 0.0040

Saturn 98770-09-11 09:35 G 37796314.75 37796314.90 37796315.06 0.0279 0.0166

Mars 98771-01-19 21:21 G 37796445.30 37796445.39 37796445.48 0.1602 0.0978

Neptune 98772-05-16 02:24 G 37796927.55 37796927.60 37796927.68 0.0090 0.0084

Jupiter 98772-08-10 09:07 G 37797013.72 37797013.88 37797014.05 0.0513 0.0256

Neptune 98772-08-12 06:14 G 37797015.66 37797015.76 37797015.88 0.0090 0.0073

Neptune 98772-11-08 10:04 G 37797103.79 37797103.92 37797104.07 0.0090 0.0062

Mars 98772-12-24 22:19 G 37797150.32 37797150.43 37797150.54 0.1591 0.0689

Neptune 98773-02-04 13:55 G 37797191.93 37797192.08 37797192.25 0.0090 0.0051

Neptune 98773-05-03 17:45 G 37797280.07 37797280.24 37797280.43 0.0090 0.0040

Neptune 98773-07-30 21:35 G 37797368.22 37797368.40 37797368.59 0.0090 0.0029

Neptune 98773-10-27 01:40 G 37797456.37 37797456.57 37797456.76 0.0090 0.0018

Uranus 98773-12-07 03:07 G 37797497.56 37797497.63 37797497.69 0.0142 0.0123

Neptune 98774-01-23 05:31 G 37797544.53 37797544.73 37797544.92 0.0090 0.0007

Uranus 98774-03-05 06:14 G 37797585.68 37797585.76 37797585.86 0.0142 0.0102

Neptune 98774-04-21 09:07 G 37797632.69 37797632.88 37797633.08 0.0090 0.0005

Uranus 98774-06-01 09:35 G 37797673.80 37797673.90 37797674.01 0.0142 0.0082

Neptune 98774-07-18 12:57 G 37797720.85 37797721.04 37797721.24 0.0090 0.0015

Uranus 98774-08-28 12:57 G 37797761.93 37797762.04 37797762.17 0.0142 0.0061

Neptune 98774-10-14 16:33 G 37797809.02 37797809.19 37797809.39 0.0090 0.0027

Uranus 98774-11-24 16:33 G 37797850.07 37797850.19 37797850.32 0.0142 0.0039

Neptune 98775-01-10 20:24 G 37797897.18 37797897.35 37797897.54 0.0090 0.0038

Uranus 98775-02-20 19:55 G 37797938.20 37797938.33 37797938.46 0.0142 0.0019

Neptune 98775-04-09 00:00 G 37797985.36 37797985.50 37797985.69 0.0090 0.0049

Uranus 98775-05-19 23:16 G 37798026.34 37798026.47 37798026.61 0.0142 0.0005

Neptune 98775-07-06 03:50 G 37798073.53 37798073.66 37798073.83 0.0090 0.0060

Uranus 98775-08-16 02:52 G 37798114.49 37798114.62 37798114.75 0.0142 0.0024

Neptune 98775-10-02 08:09 G 37798161.72 37798161.84 37798161.96 0.0090 0.0070

Uranus 98775-11-12 06:14 G 37798202.63 37798202.76 37798202.88 0.0142 0.0045

Venus 98775-12-22 16:48 G 37798243.06 37798243.20 37798243.33 0.3739 0.2187

Neptune 98775-12-29 11:45 G 37798249.91 37798249.99 37798250.08 0.0090 0.0081

Uranus 98776-02-08 09:35 G 37798290.79 37798290.90 37798291.02 0.0142 0.0066

Uranus 98776-05-06 12:57 G 37798378.94 37798379.04 37798379.15 0.0142 0.0088

Uranus 98776-08-02 16:19 G 37798467.11 37798467.18 37798467.27 0.0142 0.0109

Uranus 98776-10-29 19:40 G 37798555.28 37798555.32 37798555.38 0.0142 0.0131

Moon 98777-01-26 15:35 G 37798644.06 37798644.15 37798644.25 0.2649 0.1277

Earth 98777-01-26 15:35 G 37798644.06 37798644.15 37798644.25 0.2643 0.1284 *

Jupiter 98778-04-08 15:21 G 37799081.03 37799081.14 37799081.25 0.0513 0.0270

Jupiter 98778-07-06 18:57 G 37799170.20 37799170.29 37799170.37 0.0511 0.0367

Mars 98780-06-11 09:07 G 37799875.82 37799875.88 37799875.94 0.1605 0.1385

Mars 98782-05-17 10:04 G 37800580.81 37800580.92 37800581.04 0.1593 0.0286

Saturn 98783-05-01 04:33 G 37800929.62 37800929.69 37800929.77 0.0287 0.0233

Saturn 98783-07-28 15:50 G 37801018.04 37801018.16 37801018.28 0.0285 0.0085

Saturn 98783-10-25 02:52 G 37801106.49 37801106.62 37801106.75 0.0284 0.0061

Saturn 98784-01-21 13:55 G 37801194.99 37801195.08 37801195.17 0.0283 0.0205

Jupiter 98784-05-29 05:02 G 37801323.68 37801323.71 37801323.76 0.0513 0.0500

Jupiter 98784-08-27 20:38 G 37801414.34 37801414.36 37801414.39 0.0515 0.0509

Mars 98789-01-04 03:21 G 37803004.48 37803004.64 37803004.80 0.1948 0.0563

Jupiter 98790-01-25 19:55 G 37803391.27 37803391.33 37803391.40 0.0513 0.0432

Earth 98790-01-29 08:38 G 37803394.76 37803394.86 37803394.97 0.2641 0.0207

Moon 98790-01-29 09:21 G 37803394.78 37803394.89 37803394.99 0.2646 0.0278 *

Jupiter 98790-04-24 23:31 G 37803480.37 37803480.48 37803480.60 0.0511 0.0208

Mars 98791-10-07 21:50 G 37804011.29 37804011.41 37804011.53 0.1596 0.0120

Mars 98793-09-11 23:02 G 37804716.43 37804716.46 37804716.48 0.1586 0.1544

Pluto 98795-10-07 00:57 G 37805471.46 37805471.54 37805471.65 0.0060 0.0052

Pluto 98796-01-03 02:09 G 37805559.47 37805559.59 37805559.74 0.0060 0.0042

Pluto 98796-03-31 03:21 G 37805647.50 37805647.64 37805647.82 0.0061 0.0032

Jupiter 98796-06-15 16:33 G 37805724.03 37805724.19 37805724.35 0.0514 0.0259

Pluto 98796-06-27 05:02 G 37805735.53 37805735.71 37805735.89 0.0061 0.0021

Pluto 98796-09-23 06:14 G 37805823.57 37805823.76 37805823.95 0.0061 0.0011

Pluto 98796-12-20 07:26 G 37805911.62 37805911.81 37805912.00 0.0061 0.0001

Pluto 98797-03-18 08:38 G 37805999.68 37805999.86 37806000.05 0.0061 0.0010

Pluto 98797-06-14 09:50 G 37806087.74 37806087.91 37806088.10 0.0061 0.0020

Pluto 98797-09-10 10:48 G 37806175.81 37806175.95 37806176.13 0.0061 0.0031

Pluto 98797-12-07 12:14 G 37806263.88 37806264.01 37806264.16 0.0061 0.0041

Pluto 98798-03-05 13:40 G 37806351.98 37806352.07 37806352.17 0.0061 0.0051

Mars 98798-05-26 18:28 G 37806434.12 37806434.27 37806434.41 0.1943 0.1003

Saturn 98799-11-01 08:09 G 37806957.66 37806957.84 37806958.02 0.0277 0.0098

Saturn 98800-01-29 08:09 G 37807046.66 37807046.84 37807047.02 0.0279 0.0108

Mars 98801-02-27 09:35 G 37807441.79 37807441.90 37807442.01 0.1599 0.0530

Venus 98802-02-09 07:26 G 37807788.78 37807788.81 37807788.84 0.3638 0.3424

Jupiter 98802-02-11 04:04 G 37807790.55 37807790.67 37807790.80 0.0512 0.0045

Earth 98803-02-01 01:55 G 37808145.49 37808145.58 37808145.66 0.2640 0.1638

Moon 98803-02-01 02:38 G 37808145.52 37808145.61 37808145.69 0.2640 0.1707 *

Mars 98803-02-02 10:33 G 37808146.86 37808146.94 37808147.02 0.1588 0.1139

Moon 98806-08-02 14:52 G 37809423.97 37809424.12 37809424.28 0.2698 0.0249

Earth 98806-08-02 15:35 G 37809423.99 37809424.15 37809424.31 0.2691 0.0263 *

Venus 98807-08-25 22:19 G 37809812.34 37809812.43 37809812.52 0.3636 0.1576

Jupiter 98808-04-03 12:00 G 37810033.81 37810034.00 37810034.19 0.0514 0.0004

Moon 98810-01-25 02:52 G 37810695.58 37810695.62 37810695.66 0.2650 0.2451

Earth 98810-01-25 03:21 G 37810695.60 37810695.64 37810695.68 0.2644 0.2442 *

Mars 98810-07-20 21:21 G 37810872.30 37810872.39 37810872.48 0.1602 0.0935

Mars 98812-06-24 22:19 G 37811577.32 37811577.43 37811577.53 0.1590 0.0734

Saturn 98812-09-17 07:40 G 37811661.78 37811661.82 37811661.86 0.0287 0.0269

Saturn 98812-12-14 18:43 G 37811750.17 37811750.28 37811750.40 0.0285 0.0120

Venus 98813-03-10 13:11 G 37811835.95 37811836.05 37811836.15 0.3634 0.0276

Saturn 98813-03-13 05:45 G 37811838.62 37811838.74 37811838.87 0.0284 0.0028

Saturn 98813-06-09 16:48 G 37811927.10 37811927.20 37811927.31 0.0283 0.0171

Jupiter 98813-11-30 09:07 G 37812100.75 37812100.88 37812101.00 0.0512 0.0115

Uranus 98814-12-30 23:02 G 37812496.42 37812496.46 37812496.54 0.0136 0.0130

Uranus 98815-03-29 06:57 G 37812584.68 37812584.79 37812584.94 0.0136 0.0101

Uranus 98815-06-25 15:07 G 37812672.96 37812673.13 37812673.29 0.0136 0.0073

Uranus 98815-09-21 22:33 G 37812761.26 37812761.44 37812761.63 0.0136 0.0045

Uranus 98815-12-19 06:28 G 37812849.58 37812849.77 37812849.97 0.0136 0.0017

Uranus 98816-03-16 14:09 G 37812937.90 37812938.09 37812938.29 0.0136 0.0011

Uranus 98816-06-12 21:50 G 37813026.22 37813026.41 37813026.60 0.0136 0.0039

Uranus 98816-09-09 05:16 G 37813114.56 37813114.72 37813114.90 0.0136 0.0067

Uranus 98816-12-06 12:57 G 37813202.91 37813203.04 37813203.19 0.0136 0.0095

Uranus 98817-03-04 20:52 G 37813291.29 37813291.37 37813291.45 0.0136 0.0122

Venus 98818-09-24 04:04 G 37813859.58 37813859.67 37813859.75 0.3632 0.2090

Mars 98819-12-11 09:07 G 37814302.81 37814302.88 37814302.94 0.1605 0.1346

Jupiter 98820-01-21 06:43 G 37814343.62 37814343.78 37814343.94 0.0513 0.0260

Mars 98821-11-15 10:04 G 37815007.80 37815007.92 37815008.03 0.1593 0.0331

Earth 98823-01-27 20:24 G 37815446.25 37815446.35 37815446.45 0.2642 0.0988

Moon 98823-01-27 20:38 G 37815446.26 37815446.36 37815446.46 0.2648 0.1007 *

Jupiter 98825-09-18 13:55 G 37816410.97 37816411.08 37816411.18 0.0513 0.0270

Jupiter 98825-12-16 17:31 G 37816500.14 37816500.23 37816500.31 0.0511 0.0368

Mars 98828-07-05 03:50 G 37817431.50 37817431.66 37817431.82 0.1949 0.0655

Saturn 98829-03-20 07:11 G 37817689.64 37817689.80 37817689.96 0.0277 0.0151

Saturn 98829-06-17 07:11 G 37817778.61 37817778.80 37817778.99 0.0278 0.0054

Saturn 98829-09-14 06:57 G 37817867.73 37817867.79 37817867.87 0.0279 0.0261

Mars 98831-04-07 21:50 G 37818438.29 37818438.41 37818438.52 0.1596 0.0095

Jupiter 98831-11-09 02:24 G 37818653.59 37818653.60 37818653.63 0.0513 0.0508

Jupiter 98832-02-07 17:45 G 37818744.20 37818744.24 37818744.29 0.0515 0.0498

Venus 98832-07-28 20:09 G 37818916.18 37818916.34 37818916.50 0.3740 0.0480

Earth 98836-01-30 13:26 G 37820196.95 37820197.06 37820197.17 0.2641 0.0472

Moon 98836-01-30 13:55 G 37820196.98 37820197.08 37820197.19 0.2645 0.0579 *

Jupiter 98837-07-07 18:28 G 37820721.20 37820721.27 37820721.33 0.0513 0.0435

Jupiter 98837-10-04 22:04 G 37820810.30 37820810.42 37820810.53 0.0511 0.0205

Mars 98837-11-24 19:40 G 37820861.17 37820861.32 37820861.47 0.1944 0.0869

Mars 98840-08-28 09:35 G 37821868.79 37821868.90 37821869.01 0.1599 0.0480

Saturn 98842-05-03 21:50 G 37822482.30 37822482.41 37822482.52 0.0286 0.0157

Saturn 98842-07-31 08:52 G 37822570.74 37822570.87 37822571.00 0.0285 0.0011

Mars 98842-08-03 10:33 G 37822573.86 37822573.94 37822574.02 0.1588 0.1186

Saturn 98842-10-27 19:55 G 37822659.22 37822659.33 37822659.45 0.0284 0.0135

Saturn 98843-01-24 06:43 G 37822747.77 37822747.78 37822747.81 0.0283 0.0279

Jupiter 98843-11-26 13:55 G 37823053.92 37823054.08 37823054.24 0.0515 0.0252

Earth 98849-02-01 06:43 G 37824947.70 37824947.78 37824947.85 0.2640 0.1940

Moon 98849-02-01 07:11 G 37824947.74 37824947.80 37824947.87 0.2638 0.2053 *

Jupiter 98849-07-24 02:52 G 37825120.49 37825120.62 37825120.74 0.0511 0.0047

Mars 98850-01-18 21:21 G 37825299.29 37825299.39 37825299.48 0.1602 0.0891

Mars 98851-12-24 22:19 G 37826004.33 37826004.43 37826004.53 0.1590 0.0784

Moon 98852-08-02 22:04 G 37826226.27 37826226.42 37826226.57 0.2698 0.0869

Earth 98852-08-02 22:33 G 37826226.29 37826226.44 37826226.59 0.2691 0.0959 *

Neptune 98853-03-04 17:02 G 37826440.17 37826440.21 37826440.26 0.0088 0.0081

Neptune 98853-05-31 18:28 G 37826528.20 37826528.27 37826528.33 0.0088 0.0074

Neptune 98853-08-27 19:26 G 37826616.24 37826616.31 37826616.40 0.0088 0.0068

Neptune 98853-11-23 20:38 G 37826704.28 37826704.36 37826704.47 0.0088 0.0061

Neptune 98854-02-19 21:50 G 37826792.32 37826792.41 37826792.53 0.0088 0.0054

Neptune 98854-05-18 23:16 G 37826880.36 37826880.47 37826880.59 0.0088 0.0047

Neptune 98854-08-15 00:28 G 37826968.41 37826968.52 37826968.64 0.0088 0.0040

Neptune 98854-11-11 01:55 G 37827056.46 37827056.58 37827056.70 0.0088 0.0033

Neptune 98855-02-07 03:07 G 37827144.51 37827144.63 37827144.76 0.0088 0.0026

Neptune 98855-05-06 04:19 G 37827232.55 37827232.68 37827232.81 0.0088 0.0019

Neptune 98855-08-02 05:31 G 37827320.60 37827320.73 37827320.86 0.0088 0.0013

Jupiter 98855-09-14 09:50 G 37827363.73 37827363.91 37827364.10 0.0514 0.0012

Neptune 98855-10-29 06:57 G 37827408.65 37827408.79 37827408.92 0.0088 0.0006

Neptune 98856-01-25 08:09 G 37827496.71 37827496.84 37827496.97 0.0088 0.0002

Moon 98856-01-26 07:40 G 37827497.77 37827497.82 37827497.88 0.2650 0.2265

Earth 98856-01-26 08:09 G 37827497.77 37827497.84 37827497.90 0.2644 0.2147 *

Neptune 98856-04-22 09:21 G 37827584.76 37827584.89 37827585.02 0.0088 0.0008

Neptune 98856-07-19 10:33 G 37827672.81 37827672.94 37827673.07 0.0088 0.0015

Neptune 98856-10-15 11:45 G 37827760.87 37827760.99 37827761.12 0.0088 0.0022

Neptune 98857-01-11 12:57 G 37827848.92 37827849.04 37827849.17 0.0088 0.0029

Neptune 98857-04-09 14:24 G 37827936.98 37827937.10 37827937.22 0.0088 0.0036

Neptune 98857-07-06 15:35 G 37828025.03 37828025.15 37828025.26 0.0088 0.0043

Uranus 98857-09-30 06:28 G 37828110.76 37828110.77 37828110.78 0.0141 0.0141

Neptune 98857-10-02 16:48 G 37828113.09 37828113.20 37828113.31 0.0088 0.0050

Uranus 98857-12-27 09:35 G 37828198.84 37828198.90 37828198.98 0.0142 0.0121

Neptune 98857-12-29 18:00 G 37828201.15 37828201.25 37828201.35 0.0088 0.0057

Uranus 98858-03-25 13:11 G 37828286.96 37828287.05 37828287.14 0.0142 0.0099

Neptune 98858-03-27 19:11 G 37828289.22 37828289.30 37828289.39 0.0088 0.0064

Uranus 98858-06-21 16:33 G 37828375.08 37828375.19 37828375.30 0.0142 0.0078

Neptune 98858-06-23 20:24 G 37828377.28 37828377.35 37828377.43 0.0088 0.0071

Saturn 98858-08-07 05:02 G 37828421.60 37828421.71 37828421.84 0.0277 0.0212

Venus 98858-09-16 04:33 G 37828461.63 37828461.69 37828461.76 0.3637 0.2770

Uranus 98858-09-17 19:55 G 37828463.21 37828463.33 37828463.45 0.0142 0.0058

Neptune 98858-09-19 21:35 G 37828465.35 37828465.40 37828465.47 0.0088 0.0078

Saturn 98858-11-04 05:02 G 37828510.52 37828510.71 37828510.90 0.0278 0.0009

Uranus 98858-12-14 23:16 G 37828551.35 37828551.47 37828551.60 0.0142 0.0037

Neptune 98858-12-16 22:48 G 37828553.43 37828553.45 37828553.49 0.0088 0.0085

Saturn 98859-02-01 05:02 G 37828599.58 37828599.71 37828599.85 0.0279 0.0197

Uranus 98859-03-13 02:52 G 37828639.49 37828639.62 37828639.75 0.0142 0.0016

Uranus 98859-06-09 06:14 G 37828727.63 37828727.76 37828727.89 0.0142 0.0006

Mars 98859-06-11 08:52 G 37828729.81 37828729.87 37828729.94 0.1605 0.1302

Uranus 98859-09-05 09:35 G 37828815.77 37828815.90 37828816.03 0.0142 0.0027

Uranus 98859-12-02 12:57 G 37828903.92 37828904.04 37828904.17 0.0142 0.0048

Uranus 98860-02-28 16:19 G 37828992.07 37828992.18 37828992.30 0.0142 0.0069

Uranus 98860-05-26 19:55 G 37829080.23 37829080.33 37829080.43 0.0142 0.0090

Uranus 98860-08-22 23:02 G 37829168.39 37829168.46 37829168.55 0.0142 0.0113

Uranus 98860-11-19 02:38 G 37829256.57 37829256.61 37829256.66 0.0142 0.0133

Jupiter 98861-05-12 07:26 G 37829430.69 37829430.81 37829430.93 0.0512 0.0118

Mars 98861-05-16 10:04 G 37829434.80 37829434.92 37829435.03 0.1593 0.0378

Venus 98864-03-31 19:26 G 37830485.22 37830485.31 37830485.41 0.3635 0.0931

Jupiter 98867-07-03 05:31 G 37831673.57 37831673.73 37831673.90 0.0513 0.0245

Mars 98868-01-04 05:02 G 37831858.56 37831858.71 37831858.87 0.1949 0.0794

Earth 98869-01-28 01:11 G 37832248.44 37832248.55 37832248.65 0.2642 0.0699

Moon 98869-01-28 01:26 G 37832248.45 37832248.56 37832248.66 0.2648 0.0594 *

Venus 98869-10-15 10:19 G 37832508.84 37832508.93 37832509.03 0.3633 0.0905

Mars 98870-10-06 21:50 G 37832865.29 37832865.41 37832865.52 0.1596 0.0072

Saturn 98871-09-21 00:14 G 37833214.42 37833214.51 37833214.61 0.0286 0.0199

Saturn 98871-12-18 11:31 G 37833302.85 37833302.98 37833303.11 0.0285 0.0051

Saturn 98872-03-15 22:33 G 37833391.32 37833391.44 37833391.56 0.0284 0.0095

Saturn 98872-06-12 09:21 G 37833479.83 37833479.89 37833479.96 0.0283 0.0239

Jupiter 98873-02-28 12:14 G 37833740.90 37833741.01 37833741.12 0.0513 0.0275

Jupiter 98873-05-28 15:50 G 37833830.07 37833830.16 37833830.25 0.0511 0.0363

Venus 98875-05-01 01:11 G 37834532.49 37834532.55 37834532.62 0.3631 0.2729

Mars 98877-05-25 20:09 G 37835288.19 37835288.34 37835288.50 0.1943 0.0775

Jupiter 98879-04-21 00:43 G 37835983.50 37835983.53 37835983.56 0.0512 0.0502

Jupiter 98879-07-20 16:04 G 37836074.13 37836074.17 37836074.21 0.0514 0.0502

Mars 98880-02-27 09:35 G 37836295.78 37836295.90 37836296.01 0.1599 0.0442

Earth 98882-01-30 18:14 G 37836999.15 37836999.26 37836999.36 0.2641 0.0769

Moon 98882-01-30 18:43 G 37836999.18 37836999.28 37836999.39 0.2644 0.0840 *

Mars 98882-02-01 10:33 G 37837000.87 37837000.94 37837001.01 0.1588 0.1233

Jupiter 98884-12-17 17:02 G 37838051.15 37838051.21 37838051.28 0.0514 0.0432

Jupiter 98885-03-16 20:52 G 37838140.25 37838140.37 37838140.48 0.0512 0.0210

Moon 98885-07-31 19:11 G 37838277.20 37838277.30 37838277.39 0.2696 0.2141

Earth 98885-07-31 20:09 G 37838277.24 37838277.34 37838277.45 0.2690 0.2053 *

Saturn 98887-12-25 03:21 G 37839153.61 37839153.64 37839153.67 0.0276 0.0273

Saturn 98888-03-23 03:07 G 37839242.45 37839242.63 37839242.82 0.0277 0.0070

Saturn 98888-06-20 03:07 G 37839331.47 37839331.63 37839331.80 0.0279 0.0135

Venus 98889-03-04 23:45 G 37839589.40 37839589.49 37839589.57 0.3741 0.3170

Mars 98889-07-19 21:21 G 37839726.29 37839726.39 37839726.48 0.1602 0.0846

Pluto 98889-10-18 12:43 G 37839816.96 37839817.03 37839817.13 0.0084 0.0066

Pluto 98890-01-14 14:24 G 37839904.98 37839905.10 37839905.21 0.0084 0.0046

Pluto 98890-04-12 15:35 G 37839993.02 37839993.15 37839993.28 0.0083 0.0026

Pluto 98890-07-09 16:48 G 37840081.07 37840081.20 37840081.34 0.0083 0.0007

Pluto 98890-10-05 18:00 G 37840169.12 37840169.25 37840169.39 0.0083 0.0012

Pluto 98891-01-01 19:11 G 37840257.18 37840257.30 37840257.43 0.0083 0.0031

Pluto 98891-03-30 20:09 G 37840345.25 37840345.34 37840345.46 0.0083 0.0051

Jupiter 98891-05-08 11:45 G 37840383.83 37840383.99 37840384.15 0.0514 0.0253

Mars 98891-06-24 22:19 G 37840431.33 37840431.43 37840431.53 0.1590 0.0829

Pluto 98891-06-26 21:21 G 37840433.33 37840433.39 37840433.48 0.0083 0.0070

Earth 98895-02-02 11:16 G 37841749.92 37841749.97 37841750.03 0.2640 0.2238

Moon 98895-02-02 12:00 G 37841749.95 37841750.00 37841750.05 0.2637 0.2338 *

Jupiter 98897-01-03 01:26 G 37842450.43 37842450.56 37842450.68 0.0512 0.0048

Earth 98898-08-04 05:31 G 37843028.60 37843028.73 37843028.85 0.2692 0.1655

Moon 98898-08-04 05:31 G 37843028.61 37843028.73 37843028.85 0.2698 0.1662 *

Mars 98898-12-10 08:52 G 37843156.80 37843156.87 37843156.94 0.1605 0.1255

Uranus 98899-01-20 05:16 G 37843197.66 37843197.72 37843197.81 0.0136 0.0126

Uranus 98899-04-18 13:11 G 37843285.93 37843286.05 37843286.20 0.0136 0.0097

Uranus 98899-07-15 20:52 G 37843374.22 37843374.37 37843374.55 0.0136 0.0070

Uranus 98899-10-12 04:48 G 37843462.52 37843462.70 37843462.89 0.0136 0.0041

Uranus 98900-01-08 12:43 G 37843550.83 37843551.03 37843551.22 0.0136 0.0013

Uranus 98900-04-06 20:24 G 37843639.16 37843639.35 37843639.55 0.0136 0.0015

Uranus 98900-07-04 04:04 G 37843727.49 37843727.67 37843727.86 0.0136 0.0043

Uranus 98900-09-30 11:31 G 37843815.83 37843815.98 37843816.16 0.0136 0.0071

Mars 98900-11-15 10:04 G 37843861.80 37843861.92 37843862.03 0.1593 0.0426

Uranus 98900-12-27 19:11 G 37843904.18 37843904.30 37843904.45 0.0136 0.0099

Saturn 98901-02-08 02:52 G 37843946.56 37843946.62 37843946.69 0.0287 0.0241

Uranus 98901-03-26 03:07 G 37843992.56 37843992.63 37843992.70 0.0136 0.0126

Saturn 98901-05-07 14:09 G 37844034.97 37844035.09 37844035.21 0.0286 0.0092

Saturn 98901-08-04 01:11 G 37844123.43 37844123.55 37844123.68 0.0285 0.0055

Saturn 98901-10-31 12:14 G 37844211.92 37844212.01 37844212.10 0.0283 0.0199

Moon 98902-01-27 12:28 G 37844299.95 37844300.02 37844300.10 0.2649 0.1833

Earth 98902-01-27 12:43 G 37844299.96 37844300.03 37844300.11 0.2643 0.1849 *

Jupiter 98903-02-25 07:40 G 37844693.63 37844693.82 37844694.01 0.0514 0.0005

Mars 98907-07-06 06:00 G 37846285.60 37846285.75 37846285.90 0.1949 0.0909

Jupiter 98908-10-23 06:14 G 37846760.64 37846760.76 37846760.89 0.0512 0.0109

Mars 98910-04-07 21:35 G 37847292.29 37847292.40 37847292.52 0.1595 0.0060

Jupiter 98914-12-14 03:50 G 37849003.50 37849003.66 37849003.83 0.0514 0.0238

Earth 98915-01-30 05:45 G 37849050.64 37849050.74 37849050.85 0.2642 0.0401

Moon 98915-01-30 06:14 G 37849050.65 37849050.76 37849050.87 0.2648 0.0399 *

Venus 98915-04-24 01:55 G 37849134.50 37849134.58 37849134.66 0.3637 0.2114

Mars 98916-11-24 21:21 G 37849715.23 37849715.39 37849715.55 0.1944 0.0649

Saturn 98917-08-11 00:28 G 37849974.36 37849974.52 37849974.69 0.0277 0.0137

Saturn 98917-11-08 00:14 G 37850063.33 37850063.51 37850063.70 0.0278 0.0067

Saturn 98918-02-05 00:14 G 37850152.48 37850152.51 37850152.55 0.0279 0.0273

Mars 98919-08-29 09:21 G 37850722.78 37850722.89 37850723.01 0.1598 0.0396

Jupiter 98920-08-11 10:48 G 37851070.85 37851070.95 37851071.06 0.0513 0.0272

Venus 98920-11-06 16:48 G 37851158.10 37851158.20 37851158.30 0.3635 0.0284

Jupiter 98920-11-08 14:24 G 37851160.01 37851160.10 37851160.19 0.0511 0.0365

Mars 98921-08-03 10:33 G 37851427.87 37851427.94 37851428.01 0.1588 0.1281

Venus 98926-05-23 07:40 G 37853181.73 37853181.82 37853181.91 0.3633 0.1547

Jupiter 98926-10-01 23:45 G 37853313.43 37853313.49 37853313.55 0.0513 0.0483

Earth 98928-02-01 23:02 G 37853801.36 37853801.46 37853801.56 0.2641 0.1068

Moon 98928-02-01 23:31 G 37853801.39 37853801.48 37853801.58 0.2642 0.1218 *

Mars 98929-01-18 21:07 G 37854153.28 37854153.38 37854153.48 0.1602 0.0803

Saturn 98930-09-24 16:04 G 37854767.06 37854767.17 37854767.29 0.0286 0.0140

Saturn 98930-12-22 03:21 G 37854855.51 37854855.64 37854855.77 0.0285 0.0009

Mars 98930-12-24 22:04 G 37854858.33 37854858.42 37854858.52 0.1590 0.0876

Saturn 98931-03-20 14:09 G 37854943.99 37854944.09 37854944.21 0.0284 0.0154

Moon 98931-08-03 02:09 G 37855079.47 37855079.59 37855079.72 0.2696 0.1594

Earth 98931-08-03 03:21 G 37855079.50 37855079.64 37855079.78 0.2690 0.1343 *

Venus 98931-12-06 22:33 G 37855205.40 37855205.44 37855205.47 0.3630 0.3362

Jupiter 98932-05-30 15:35 G 37855381.09 37855381.15 37855381.22 0.0513 0.0430

Jupiter 98932-08-27 19:26 G 37855470.19 37855470.31 37855470.42 0.0511 0.0210

Neptune 98936-11-14 21:35 G 37857010.40 37857010.40 37857010.40 0.0090 0.0090

Neptune 98937-02-11 00:57 G 37857098.46 37857098.54 37857098.65 0.0090 0.0079

Neptune 98937-05-10 04:48 G 37857186.59 37857186.70 37857186.84 0.0090 0.0068

Neptune 98937-08-06 08:38 G 37857274.72 37857274.86 37857275.03 0.0090 0.0057

Neptune 98937-11-02 12:28 G 37857362.86 37857363.02 37857363.20 0.0090 0.0046

Neptune 98938-01-29 16:19 G 37857451.01 37857451.18 37857451.37 0.0090 0.0035

Neptune 98938-04-27 20:24 G 37857539.16 37857539.35 37857539.54 0.0090 0.0024

Mars 98938-06-11 08:52 G 37857583.80 37857583.87 37857583.95 0.1605 0.1212

Neptune 98938-07-25 00:14 G 37857627.32 37857627.51 37857627.71 0.0090 0.0013

Jupiter 98938-10-19 10:19 G 37857713.78 37857713.93 37857714.10 0.0514 0.0266

Neptune 98938-10-21 04:04 G 37857715.47 37857715.67 37857715.87 0.0090 0.0002

Neptune 98939-01-17 07:55 G 37857803.63 37857803.83 37857804.03 0.0090 0.0009

Neptune 98939-04-15 11:31 G 37857891.80 37857891.98 37857892.18 0.0090 0.0021

Neptune 98939-07-12 15:21 G 37857979.96 37857980.14 37857980.33 0.0090 0.0032

Neptune 98939-10-08 19:11 G 37858068.13 37858068.30 37858068.48 0.0090 0.0043

Neptune 98940-01-04 22:48 G 37858156.31 37858156.45 37858156.62 0.0090 0.0054

Venus 98940-03-26 12:43 G 37858237.92 37858238.03 37858238.14 0.3738 0.2729

Neptune 98940-04-02 02:38 G 37858244.49 37858244.61 37858244.76 0.0090 0.0065

Mars 98940-05-16 10:04 G 37858288.80 37858288.92 37858289.03 0.1593 0.0473

Neptune 98940-06-29 06:14 G 37858332.68 37858332.76 37858332.89 0.0090 0.0076

Neptune 98940-09-25 10:04 G 37858420.89 37858420.92 37858420.99 0.0090 0.0087

Earth 98941-02-03 16:04 G 37858552.15 37858552.17 37858552.20 0.2640 0.2535

Moon 98941-02-03 16:48 G 37858552.19 37858552.20 37858552.21 0.2637 0.2616 *

Uranus 98941-10-21 13:11 G 37858812.04 37858812.05 37858812.09 0.0141 0.0138

Uranus 98942-01-17 16:48 G 37858900.13 37858900.20 37858900.28 0.0141 0.0116

Uranus 98942-04-15 20:09 G 37858988.25 37858988.34 37858988.44 0.0141 0.0096

Uranus 98942-07-12 23:31 G 37859076.38 37859076.48 37859076.60 0.0142 0.0075

Uranus 98942-10-09 03:07 G 37859164.51 37859164.63 37859164.75 0.0142 0.0054

Uranus 98943-01-05 06:28 G 37859252.64 37859252.77 37859252.90 0.0142 0.0033

Uranus 98943-04-03 09:50 G 37859340.78 37859340.91 37859341.04 0.0142 0.0012

Uranus 98943-06-30 13:11 G 37859428.92 37859429.05 37859429.18 0.0142 0.0010

Uranus 98943-09-26 16:33 G 37859517.07 37859517.19 37859517.32 0.0142 0.0031

Uranus 98943-12-23 19:55 G 37859605.21 37859605.33 37859605.46 0.0142 0.0052

Uranus 98944-03-20 23:16 G 37859693.37 37859693.47 37859693.59 0.0142 0.0073

Jupiter 98944-06-16 00:14 G 37859780.39 37859780.51 37859780.64 0.0512 0.0057

Uranus 98944-06-17 02:52 G 37859781.52 37859781.62 37859781.72 0.0142 0.0094

Earth 98944-08-05 12:28 G 37859830.94 37859831.02 37859831.09 0.2692 0.2352

Moon 98944-08-05 12:57 G 37859830.98 37859831.04 37859831.10 0.2698 0.2485 *

Uranus 98944-09-13 06:14 G 37859869.69 37859869.76 37859869.84 0.0142 0.0115

Uranus 98944-12-10 09:50 G 37859957.88 37859957.91 37859957.94 0.0142 0.0137

Saturn 98946-12-28 21:50 G 37860706.29 37860706.41 37860706.55 0.0276 0.0204

Mars 98947-01-04 06:43 G 37860712.64 37860712.78 37860712.92 0.1949 0.1011

Saturn 98947-03-27 21:50 G 37860795.22 37860795.41 37860795.61 0.0278 0.0006

Saturn 98947-06-24 21:50 G 37860884.28 37860884.41 37860884.54 0.0279 0.0206

Moon 98948-01-28 17:31 G 37861102.14 37861102.23 37861102.31 0.2649 0.1604

Earth 98948-01-28 17:31 G 37861102.14 37861102.23 37861102.32 0.2643 0.1553 *

Mars 98949-10-06 21:35 G 37861719.29 37861719.40 37861719.52 0.1596 0.0070

Jupiter 98950-08-07 06:14 G 37862023.58 37862023.76 37862023.95 0.0514 0.0021

Jupiter 98956-04-04 05:02 G 37864090.59 37864090.71 37864090.84 0.0512 0.0103

Mars 98956-05-25 22:19 G 37864142.27 37864142.43 37864142.59 0.1944 0.0526

Mars 98959-02-27 09:21 G 37865149.78 37865149.89 37865150.01 0.1598 0.0351

Saturn 98960-02-11 18:28 G 37865499.17 37865499.27 37865499.37 0.0287 0.0186

Saturn 98960-05-10 05:31 G 37865587.61 37865587.73 37865587.86 0.0286 0.0038

Saturn 98960-08-06 16:33 G 37865676.08 37865676.19 37865676.32 0.0284 0.0110

Saturn 98960-11-03 03:35 G 37865764.60 37865764.65 37865764.71 0.0283 0.0254

Earth 98961-01-30 10:33 G 37865852.83 37865852.94 37865853.05 0.2642 0.0096

Moon 98961-01-30 11:02 G 37865852.85 37865852.96 37865853.06 0.2647 0.0092 *

Mars 98961-02-01 10:33 G 37865854.87 37865854.94 37865855.00 0.1588 0.1329

Jupiter 98962-05-26 01:55 G 37866333.42 37866333.58 37866333.75 0.0514 0.0233

Venus 98966-05-15 08:09 G 37867783.80 37867783.84 37867783.88 0.3638 0.3313

Jupiter 98968-01-22 10:04 G 37868400.81 37868400.92 37868401.03 0.0512 0.0257

Jupiter 98968-04-20 13:40 G 37868489.98 37868490.07 37868490.15 0.0510 0.0378

Mars 98968-07-19 21:07 G 37868580.28 37868580.38 37868580.48 0.1601 0.0757

Mars 98970-06-24 22:19 G 37869285.33 37869285.43 37869285.52 0.1590 0.0926

Venus 98971-11-28 23:02 G 37869807.37 37869807.46 37869807.56 0.3636 0.1473

Earth 98974-02-02 03:35 G 37870603.56 37870603.65 37870603.75 0.2641 0.1374

Moon 98974-02-02 04:19 G 37870603.59 37870603.68 37870603.77 0.2640 0.1420 *

Jupiter 98974-03-13 22:19 G 37870643.37 37870643.43 37870643.51 0.0513 0.0472

Saturn 98976-05-16 18:43 G 37871438.26 37871438.28 37871438.31 0.0275 0.0273

Saturn 98976-08-13 18:28 G 37871527.09 37871527.27 37871527.46 0.0277 0.0072

Saturn 98976-11-10 18:28 G 37871616.10 37871616.27 37871616.44 0.0278 0.0133

Venus 98977-06-13 13:55 G 37871830.98 37871831.08 37871831.19 0.3634 0.0402

Moon 98977-08-03 09:21 G 37871881.74 37871881.89 37871882.05 0.2696 0.0656

Earth 98977-08-03 10:04 G 37871881.77 37871881.92 37871882.08 0.2690 0.0656 *

Mars 98977-12-10 08:52 G 37872010.79 37872010.87 37872010.95 0.1605 0.1169

Jupiter 98979-11-10 14:38 G 37872711.04 37872711.11 37872711.18 0.0513 0.0420

Mars 98979-11-15 09:50 G 37872715.80 37872715.91 37872716.02 0.1593 0.0517

Jupiter 98980-02-07 18:14 G 37872800.15 37872800.26 37872800.38 0.0511 0.0219

Venus 98982-12-28 05:02 G 37873854.63 37873854.71 37873854.78 0.3632 0.2197

Uranus 98983-02-10 11:45 G 37873898.91 37873898.99 37873899.08 0.0137 0.0122

Uranus 98983-05-09 19:26 G 37873987.17 37873987.31 37873987.46 0.0136 0.0094

Uranus 98983-08-06 03:07 G 37874075.47 37874075.63 37874075.81 0.0136 0.0066

Uranus 98983-11-02 11:02 G 37874163.77 37874163.96 37874164.15 0.0136 0.0037

Uranus	98984-01-29 18:43 G	37874252.09	37874252.28	37874252.48	0.0136	0.0010
Uranus	98984-04-27 02:23 G	37874340.41	37874340.60	37874340.80	0.0136	0.0019
Uranus	98984-07-24 10:04 G	37874428.74	37874428.92	37874429.11	0.0136	0.0047
Uranus	98984-10-20 17:45 G	37874517.09	37874517.24	37874517.41	0.0136	0.0075
Uranus	98985-01-17 01:11 G	37874605.44	37874605.55	37874605.70	0.0136	0.0103
Uranus	98985-04-15 09:07 G	37874693.84	37874693.88	37874693.94	0.0136	0.0130
Jupiter	98986-03-31 09:50 G	37875043.76	37875043.91	37875044.07	0.0515	0.0292
Mars	98986-07-05 07:40 G	37875139.69	37875139.82	37875139.96	0.1949	0.1141
Mars	98987-05-02 20:38 G	37875441.34	37875441.36	37875441.38	0.1609	0.1582
Mars	98989-04-06 21:35 G	37876146.28	37876146.40	37876146.52	0.1595	0.0108
Saturn	98989-06-30 19:55 G	37876231.26	37876231.33	37876231.40	0.0287	0.0241
Saturn	98989-09-27 07:11 G	37876319.67	37876319.80	37876319.92	0.0286	0.0092
Saturn	98989-12-24 18:14 G	37876408.13	37876408.26	37876408.39	0.0285	0.0056
Saturn	98990-03-23 05:16 G	37876496.63	37876496.72	37876496.81	0.0284	0.0202
Jupiter	98991-11-26 23:16 G	37877110.34	37877110.47	37877110.59	0.0512	0.0064
Earth	98994-01-28 22:19 G	37877904.33	37877904.43	37877904.52	0.2643	0.1264
Moon	98994-01-28 22:19 G	37877904.34	37877904.43	37877904.53	0.2650	0.1214 *
Mars	98995-11-24 23:02 G	37878569.30	37878569.46	37878569.62	0.1944	0.0422
Venus	98996-10-31 16:19 G	37878911.01	37878911.18	37878911.34	0.3739	0.0100
Jupiter	98998-01-17 05:31 G	37879353.54	37879353.73	37879353.92	0.0514	0.0038
Mars	98998-08-28 09:21 G	37879576.78	37879576.89	37879577.01	0.1598	0.0302
Mars	99000-08-03 10:33 G	37880281.88	37880281.94	37880281.99	0.1588	0.1377

100TH MILLENNIUM CE

This is a list of transits of Mercury in the 100th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**99003-09-16 04:19**	**G**	**37881420.55**	**37881420.68**	**37881420.80**	**0.0512**	**0.0092**	
Saturn	**99006-01-01 15:35**	**G**	**37882258.99**	**37882259.15**	**37882259.31**	**0.0276**	**0.0143**	
Saturn	**99006-03-31 15:21**	**G**	**37882347.95**	**37882348.14**	**37882348.33**	**0.0278**	**0.0060**	
Saturn	**99006-06-28 15:07**	**G**	**37882437.08**	**37882437.13**	**37882437.19**	**0.0279**	**0.0266**	
Earth	**99007-02-01 15:21**	**G**	**37882655.03**	**37882655.14**	**37882655.25**	**0.2642**	**0.0207**	
Moon	**99007-02-01 15:50**	**G**	**37882655.05**	**37882655.16**	**37882655.27**	**0.2646**	**0.0230**	*****
Mars	**99008-01-19 21:07**	**G**	**37883007.28**	**37883007.38**	**37883007.49**	**0.1601**	**0.0711**	
Jupiter	**99009-11-06 01:26**	**G**	**37883663.39**	**37883663.56**	**37883663.73**	**0.0513**	**0.0208**	
Mars	**99009-12-24 22:04**	**G**	**37883712.33**	**37883712.42**	**37883712.52**	**0.1590**	**0.0971**	
Jupiter	**99015-07-05 09:07**	**G**	**37885730.77**	**37885730.88**	**37885730.99**	**0.0512**	**0.0247**	
Jupiter	**99015-10-02 12:28**	**G**	**37885819.94**	**37885820.02**	**37885820.11**	**0.0510**	**0.0389**	
Mars	**99017-06-11 08:52**	**G**	**37886437.79**	**37886437.87**	**37886437.95**	**0.1605**	**0.1121**	
Neptune	**99017-09-04 15:35**	**G**	**37886523.13**	**37886523.15**	**37886523.19**	**0.0088**	**0.0085**	
Neptune	**99017-12-01 16:47**	**G**	**37886611.15**	**37886611.20**	**37886611.27**	**0.0088**	**0.0078**	
Neptune	**99018-02-27 18:14**	**G**	**37886699.19**	**37886699.26**	**37886699.34**	**0.0088**	**0.0071**	
Neptune	**99018-05-26 19:26**	**G**	**37886787.23**	**37886787.31**	**37886787.41**	**0.0088**	**0.0064**	
Neptune	**99018-08-22 20:38**	**G**	**37886875.27**	**37886875.36**	**37886875.47**	**0.0088**	**0.0057**	
Neptune	**99018-11-18 22:04**	**G**	**37886963.31**	**37886963.42**	**37886963.53**	**0.0088**	**0.0050**	
Neptune	**99019-02-14 23:16**	**G**	**37887051.36**	**37887051.47**	**37887051.59**	**0.0088**	**0.0043**	
Saturn	**99019-02-15 09:07**	**G**	**37887051.77**	**37887051.88**	**37887051.99**	**0.0287**	**0.0141**	
Neptune	**99019-05-14 00:28**	**G**	**37887139.41**	**37887139.52**	**37887139.64**	**0.0088**	**0.0036**	
Saturn	**99019-05-14 20:23**	**G**	**37887140.22**	**37887140.35**	**37887140.48**	**0.0286**	**0.0010**	
Mars	**99019-05-17 09:50**	**G**	**37887142.80**	**37887142.91**	**37887143.02**	**0.1593**	**0.0567**	
Neptune	**99019-08-10 01:40**	**G**	**37887227.45**	**37887227.57**	**37887227.70**	**0.0088**	**0.0030**	
Saturn	**99019-08-11 07:26**	**G**	**37887228.70**	**37887228.81**	**37887228.92**	**0.0284**	**0.0154**	
Neptune	**99019-11-06 02:52**	**G**	**37887315.50**	**37887315.62**	**37887315.76**	**0.0088**	**0.0023**	
Neptune	**99020-02-02 04:19**	**G**	**37887403.55**	**37887403.68**	**37887403.81**	**0.0088**	**0.0016**	

Earth 99020-02-04 08:23 G 37887405.77 37887405.85 37887405.94 0.2641 0.1669

Moon 99020-02-04 09:07 G 37887405.81 37887405.88 37887405.96 0.2640 0.1846 *

Neptune 99020-04-30 05:31 G 37887491.60 37887491.73 37887491.86 0.0088 0.0009

Neptune 99020-07-27 06:43 G 37887579.65 37887579.78 37887579.92 0.0088 0.0003

Neptune 99020-10-23 08:09 G 37887667.70 37887667.84 37887667.97 0.0088 0.0006

Neptune 99021-01-19 09:21 G 37887755.76 37887755.89 37887756.02 0.0088 0.0012

Neptune 99021-04-17 10:33 G 37887843.81 37887843.94 37887844.07 0.0088 0.0019

Neptune 99021-07-14 11:45 G 37887931.87 37887931.99 37887932.12 0.0088 0.0026

Jupiter 99021-08-24 20:52 G 37887973.29 37887973.37 37887973.45 0.0513 0.0461

Neptune 99021-10-10 12:57 G 37888019.92 37888020.04 37888020.17 0.0088 0.0033

Neptune 99022-01-06 14:09 G 37888107.98 37888108.09 37888108.21 0.0088 0.0040

Neptune 99022-04-04 15:21 G 37888196.04 37888196.14 37888196.26 0.0088 0.0047

Neptune 99022-07-01 16:33 G 37888284.09 37888284.19 37888284.30 0.0088 0.0054

Neptune 99022-09-27 17:45 G 37888372.16 37888372.24 37888372.35 0.0088 0.0061

Venus 99022-12-21 05:31 G 37888456.66 37888456.73 37888456.80 0.3638 0.2655

Neptune 99022-12-24 18:57 G 37888460.22 37888460.29 37888460.39 0.0088 0.0068

Neptune 99023-03-22 20:09 G 37888548.29 37888548.34 37888548.42 0.0088 0.0075

Neptune 99023-06-18 21:50 G 37888636.36 37888636.41 37888636.45 0.0088 0.0081

Moon 99023-08-05 17:02 G 37888684.05 37888684.21 37888684.36 0.2697 0.0120

Earth 99023-08-05 17:02 G 37888684.05 37888684.21 37888684.37 0.2690 0.0070 *

Uranus 99025-11-11 20:52 G 37889513.32 37889513.37 37889513.41 0.0141 0.0132

Mars 99026-01-04 08:52 G 37889566.74 37889566.87 37889566.99 0.1949 0.1263

Uranus 99026-02-07 23:59 G 37889601.43 37889601.50 37889601.59 0.0141 0.0111

Uranus 99026-05-07 03:21 G 37889689.55 37889689.64 37889689.75 0.0141 0.0091

Uranus 99026-08-03 06:57 G 37889777.68 37889777.79 37889777.91 0.0142 0.0069

Uranus 99026-10-30 10:19 G 37889865.81 37889865.93 37889866.06 0.0142 0.0049

Mars 99026-11-01 20:38 G 37889868.33 37889868.36 37889868.39 0.1608 0.1539

Uranus 99027-01-26 13:40 G 37889953.95 37889954.07 37889954.20 0.0142 0.0028

Moon 99027-01-28 09:35 G 37889955.86 37889955.90 37889955.93 0.2649 0.2491

Earth 99027-01-28 09:50 G 37889955.87 37889955.91 37889955.95 0.2644 0.2420 *

Jupiter 99027-04-23 14:09 G 37890041.01 37890041.09 37890041.17 0.0513 0.0399

Uranus 99027-04-24 17:16 G 37890042.09 37890042.22 37890042.35 0.0142 0.0008

Jupiter 99027-07-21 17:45 G 37890130.12 37890130.24 37890130.35 0.0511 0.0238

Uranus 99027-07-21 20:38 G 37890130.23 37890130.36 37890130.49 0.0142 0.0015 *

Uranus 99027-10-17 23:59 G 37890218.37 37890218.50 37890218.63 0.0142 0.0036

Uranus 99028-01-14 03:21 G 37890306.52 37890306.64 37890306.76 0.0142 0.0057

Uranus 99028-04-11 06:43 G 37890394.68 37890394.78 37890394.89 0.0142 0.0078

Venus 99028-07-05 20:23 G 37890480.25 37890480.35 37890480.45 0.3635 0.0815

Uranus 99028-07-08 10:19 G 37890482.83 37890482.93 37890483.02 0.0142 0.0099

Uranus 99028-10-04 13:40 G 37890571.00 37890571.07 37890571.14 0.0142 0.0120

Mars 99028-10-06 21:35 G 37890573.28 37890573.40 37890573.52 0.1595 0.0155

Uranus 99028-12-31 17:02 G 37890659.21 37890659.21 37890659.22 0.0142 0.0142

Jupiter 99033-09-11 08:52 G 37892373.72 37892373.87 37892374.02 0.0515 0.0309

Venus 99034-01-19 11:16 G 37892503.88 37892503.97 37892504.07 0.3633 0.1016

Saturn 99035-05-21 11:45 G 37892990.88 37892990.99 37892991.12 0.0275 0.0216

Mars 99035-05-26 23:59 G 37892996.33 37892996.50 37892996.67 0.1944 0.0303

Saturn 99035-08-18 11:45 G 37893079.80 37893079.99 37893080.18 0.0277 0.0014

Saturn 99035-11-15 11:31 G 37893168.84 37893168.98 37893169.12 0.0278 0.0190

Mars 99038-02-27 09:21 G 37894003.77 37894003.89 37894004.01 0.1598 0.0257

Jupiter 99039-05-09 22:19 G 37894440.31 37894440.43 37894440.56 0.0511 0.0078

Venus 99039-08-05 02:09 G 37894527.53 37894527.59 37894527.65 0.3631 0.2833

Earth 99040-01-31 02:52 G 37894706.52 37894706.62 37894706.72 0.2643 0.0966

Moon 99040-01-31 03:07 G 37894706.53 37894706.63 37894706.73 0.2650 0.0958 *

Mars 99040-02-02 10:19 G 37894708.88 37894708.93 37894708.98 0.1588 0.1424

Pluto 99042-08-21 10:19 G 37895639.87 37895639.93 37895640.00 0.0060 0.0056

Pluto 99042-11-17 11:31 G 37895727.86 37895727.98 37895728.11 0.0060 0.0046

Pluto 99043-02-13 12:28 G 37895815.89 37895816.02 37895816.19 0.0060 0.0036

Pluto 99043-05-12 13:55 G 37895903.92 37895904.08 37895904.26 0.0061 0.0026

Pluto 99043-08-08 15:07 G 37895991.96 37895992.13 37895992.33 0.0061 0.0016

Pluto 99043-11-04 16:33 G 37896080.01 37896080.19 37896080.38 0.0061 0.0005

Pluto 99044-01-31 17:45 G 37896168.06 37896168.24 37896168.43 0.0061 0.0006

Pluto 99044-04-28 18:57 G 37896256.12 37896256.29 37896256.48 0.0061 0.0016

Pluto 99044-07-25 20:09 G 37896344.18 37896344.34 37896344.52 0.0061 0.0026

Mars 99044-10-15 15:35 G 37896426.10 37896426.15 37896426.19 0.1939 0.1849

Pluto 99044-10-21 21:35 G 37896432.25 37896432.40 37896432.55 0.0061 0.0036

Pluto 99045-01-17 22:19 G 37896520.34 37896520.43 37896520.57 0.0061 0.0047

Pluto 99045-04-15 23:45 G 37896608.44 37896608.49 37896608.57 0.0061 0.0057

Jupiter 99045-06-30 05:02 G 37896683.53 37896683.71 37896683.90 0.0514 0.0066

Mars 99047-07-20 21:07 G 37897434.27 37897434.38 37897434.48 0.1601 0.0667

Saturn 99048-07-04 10:19 G 37897783.84 37897783.93 37897784.02 0.0287 0.0200

Saturn 99048-09-30 21:35 G 37897872.27 37897872.40 37897872.53 0.0286 0.0050

Saturn 99048-12-28 08:38 G 37897960.74 37897960.86 37897960.98 0.0285 0.0098

Saturn 99049-03-26 19:40 G 37898049.26 37898049.32 37898049.39 0.0284 0.0243

Mars 99049-06-24 22:04 G 37898139.33 37898139.42 37898139.51 0.1590 0.1017

Jupiter 99051-02-26 03:21 G 37898750.51 37898750.64 37898750.76 0.0512 0.0080

Earth 99053-02-01 20:09 G 37899457.23 37899457.34 37899457.44 0.2641 0.0509

Moon 99053-02-01 20:38 G 37899457.25 37899457.36 37899457.46 0.2644 0.0631 *

Venus 99053-06-08 19:40 G 37899584.20 37899584.32 37899584.44 0.3740 0.2567

Mars 99056-12-10 08:52 G 37900864.78 37900864.87 37900864.95 0.1605 0.1080

Jupiter 99057-04-18 00:43 G 37900993.36 37900993.53 37900993.71 0.0513 0.0185

Mars 99058-11-15 09:50 G 37901569.80 37901569.91 37901570.02 0.1592 0.0610

Jupiter 99062-12-15 08:09 G 37903060.73 37903060.84 37903060.96 0.0513 0.0233

Jupiter 99063-03-14 11:45 G 37903149.92 37903149.99 37903150.07 0.0511 0.0404

Saturn 99065-01-04 08:23 G 37903811.67 37903811.85 37903812.03 0.0276 0.0088

Saturn 99065-04-03 08:09 G 37903900.67 37903900.84 37903901.02 0.0278 0.0115

Mars 99065-07-05 09:21 G 37903993.77 37903993.89 37903994.01 0.1950 0.1360

Earth 99066-02-04 13:11 G 37904207.98 37904208.05 37904208.12 0.2640 0.1967

Moon 99066-02-04 13:55 G 37904208.01 37904208.08 37904208.15 0.2639 0.2013 *

Mars 99066-05-02 20:38 G 37904295.32 37904295.36 37904295.40 0.1608 0.1492

Uranus 99067-03-03 17:31 G 37904600.15 37904600.23 37904600.34 0.0136 0.0119

Uranus 99067-05-31 01:26 G 37904688.42 37904688.56 37904688.71 0.0136 0.0090

Uranus 99067-08-27 09:07 G 37904776.72 37904776.88 37904777.07 0.0136 0.0062

Uranus 99067-11-23 17:02 G 37904865.02 37904865.21 37904865.40 0.0136 0.0034

Uranus 99068-02-20 00:57 G 37904953.34 37904953.54 37904953.73 0.0136 0.0006

Mars 99068-04-06 21:35 G 37905000.28 37905000.40 37905000.52 0.1595 0.0201

Uranus 99068-05-18 08:38 G 37905041.67 37905041.86 37905042.05 0.0136 0.0022

Uranus 99068-08-14 16:19 G 37905130.00 37905130.18 37905130.36 0.0136 0.0050

Uranus 99068-11-10 23:59 G 37905218.34 37905218.50 37905218.66 0.0136 0.0078

Jupiter 99069-02-03 20:38 G 37905303.27 37905303.36 37905303.47 0.0513 0.0429

Uranus 99069-02-07 07:26 G 37905306.70 37905306.81 37905306.94 0.0136 0.0106

Uranus 99069-05-06 15:07 G 37905395.11 37905395.13 37905395.17 0.0136 0.0134

Earth 99069-08-05 23:59 G 37905486.35 37905486.50 37905486.66 0.2691 0.0747

Moon 99069-08-06 00:14 G 37905486.36 37905486.51 37905486.66 0.2698 0.0870 *

Moon 99073-01-28 14:23 G 37906758.04 37906758.10 37906758.16 0.2650 0.2127

Earth 99073-01-28 14:38 G 37906758.05 37906758.11 37906758.17 0.2644 0.2125 *

Jupiter 99074-10-03 13:11 G 37907370.97 37907371.05 37907371.13 0.0513 0.0387

Mars 99074-11-25 01:11 G 37907423.38 37907423.55 37907423.72 0.1945 0.0169

Jupiter 99074-12-31 16:47 G 37907460.09 37907460.20 37907460.31 0.0511 0.0250

Mars 99077-08-28 09:21 G 37908430.77 37908430.89 37908431.01 0.1598 0.0208

Saturn 99077-11-21 11:59 G 37908515.94 37908516.00 37908516.06 0.0288 0.0254

Saturn 99078-02-17 23:16 G 37908604.35 37908604.47 37908604.59 0.0287 0.0103

Saturn 99078-05-17 10:19 G 37908692.81 37908692.93 37908693.06 0.0286 0.0047

Saturn 99078-08-13 21:35 G 37908781.30 37908781.40 37908781.49 0.0284 0.0193

Venus 99079-07-28 02:52 G 37909129.53 37909129.62 37909129.70 0.3637 0.1999

Mars 99079-08-03 10:19 G 37909135.89 37909135.93 37909135.97 0.1588 0.1473

Jupiter 99081-02-21 07:26 G 37909703.67 37909703.81 37909703.96 0.0515 0.0322

Mars 99084-04-15 16:19 G 37910853.11 37910853.18 37910853.25 0.1939 0.1744

Venus 99085-02-09 17:45 G 37911153.14 37911153.24 37911153.34 0.3635 0.0172

Earth 99086-01-31 07:40 G 37911508.71 37911508.82 37911508.92 0.2642 0.0669

Moon 99086-01-31 07:55 G 37911508.72 37911508.83 37911508.93 0.2649 0.0634 *

Jupiter 99086-10-19 21:50 G 37911770.29 37911770.41 37911770.54 0.0511 0.0101

Mars 99087-01-18 21:07 G 37911861.27 37911861.38 37911861.48 0.1601 0.0623

Mars 99088-12-23 22:04 G 37912566.34 37912566.42 37912566.51 0.1590 0.1067

Venus 99090-08-26 08:38 G 37913176.77 37913176.86 37913176.95 0.3633 0.1662

Jupiter 99092-12-10 04:04 G 37914013.49 37914013.67 37914013.86 0.0515 0.0083

Saturn 99094-05-24 04:33 G 37914543.54 37914543.69 37914543.85 0.0275 0.0161

Saturn 99094-08-21 04:33 G 37914632.50 37914632.69 37914632.88 0.0276 0.0041

Saturn 99094-11-18 04:19 G 37914721.59 37914721.68 37914721.77 0.0278 0.0244

Venus 99096-03-10 23:31 G 37915200.45 37915200.48 37915200.50 0.3631 0.3471

Mars 99096-06-10 08:52 G 37915291.78 37915291.87 37915291.95 0.1605 0.1036

Mars 99098-05-16 09:50 G 37915996.80 37915996.91 37915997.02 0.1592 0.0656

Jupiter 99098-08-08 02:38 G 37916080.48 37916080.61 37916080.74 0.0512 0.0060

Earth 99099-02-03 00:43 G 37916259.43 37916259.53 37916259.64 0.2641 0.0798

Moon 99099-02-03 01:26 G 37916259.46 37916259.56 37916259.66 0.2643 0.0885 *

Neptune 99101-08-13 20:09 G 37917181.28 37917181.34 37917181.42 0.0090 0.0084

Neptune 99101-11-09 23:59 G 37917269.40 37917269.50 37917269.62 0.0090 0.0073

Neptune 99102-02-06 03:50 G 37917357.53 37917357.66 37917357.81 0.0090 0.0062

Neptune 99102-05-05 07:40 G 37917445.67 37917445.82 37917445.99 0.0090 0.0051

Neptune 99102-08-01 11:31 G 37917533.81 37917533.98 37917534.16 0.0090 0.0040

Moon 99102-08-04 20:38 G 37917537.29 37917537.36 37917537.43 0.2695 0.2408

Earth 99102-08-04 21:35 G 37917537.32 37917537.40 37917537.49 0.2689 0.2286 *

Neptune 99102-10-28 15:21 G 37917621.96 37917622.14 37917622.33 0.0090 0.0029

Neptune 99103-01-24 19:11 G 37917710.11 37917710.30 37917710.50 0.0090 0.0018

Neptune 99103-04-22 23:02 G 37917798.27 37917798.46 37917798.66 0.0090 0.0007

Neptune 99103-07-20 02:52 G 37917886.43 37917886.62 37917886.82 0.0090 0.0004

Neptune 99103-10-16 06:43 G 37917974.59 37917974.78 37917974.98 0.0090 0.0015

Neptune 99104-01-12 10:19 G 37918062.75 37918062.93 37918063.13 0.0090 0.0027

Neptune 99104-04-09 14:09 G 37918150.92 37918151.09 37918151.28 0.0090 0.0037

Venus 99104-06-30 08:52 G 37918232.79 37918232.87 37918232.95 0.3737 0.3252

Neptune 99104-07-06 17:45 G 37918239.09 37918239.24 37918239.43 0.0090 0.0049

Jupiter 99104-09-29 00:28 G 37918323.34 37918323.52 37918323.70 0.0514 0.0157

Neptune 99104-10-02 21:35 G 37918327.27 37918327.40 37918327.57 0.0090 0.0060

Neptune 99104-12-30 01:55 G 37918415.46 37918415.58 37918415.70 0.0090 0.0070

Mars 99105-01-04 10:33 G 37918420.84 37918420.94 37918421.05 0.1950 0.1499

Neptune 99105-03-28 05:31 G 37918503.65 37918503.73 37918503.82 0.0090 0.0081

Mars 99105-11-01 20:38 G 37918722.31 37918722.36 37918722.40 0.1608 0.1451

Saturn 99107-07-09 00:14 G 37919336.40 37919336.51 37919336.61 0.0288 0.0164

Saturn 99107-10-05 11:31 G 37919424.85 37919424.98 37919425.11 0.0286 0.0016

Mars 99107-10-07 21:35 G 37919427.28 37919427.40 37919427.51 0.1595 0.0249

Saturn 99108-01-01 22:33 G 37919513.33 37919513.44 37919513.55 0.0285 0.0133

Saturn 99108-03-30 09:35 G 37919601.88 37919601.90 37919601.92 0.0284 0.0279

Uranus 99109-12-03 04:19 G 37920214.62 37920214.68 37920214.74 0.0141 0.0126

Uranus 99110-03-01 07:26 G 37920302.73 37920302.81 37920302.91 0.0141 0.0106

Jupiter 99110-05-28 07:26 G 37920390.70 37920390.81 37920390.93 0.0512 0.0217

Uranus 99110-05-28 11:02 G 37920390.86 37920390.96 37920391.07 0.0141 0.0084 *

Uranus 99110-08-24 14:23 G 37920478.99 37920479.10 37920479.22 0.0142 0.0063

Jupiter 99110-08-25 11:02 G 37920479.89 37920479.96 37920480.03 0.0510 0.0417

Uranus 99110-11-20 17:45 G 37920567.12 37920567.24 37920567.37 0.0142 0.0043

Uranus 99111-02-16 21:21 G 37920655.26 37920655.39 37920655.52 0.0142 0.0021

Uranus 99111-05-16 00:43 G 37920743.40 37920743.53 37920743.66 0.0142 0.0001

Uranus 99111-08-12 04:04 G 37920831.54 37920831.67 37920831.80 0.0142 0.0021

Uranus 99111-11-08 07:26 G 37920919.69 37920919.81 37920919.94 0.0142 0.0042

Uranus 99112-02-04 10:47 G 37921007.84 37921007.95 37921008.07 0.0142 0.0063

Earth 99112-02-06 17:59 G 37921010.19 37921010.25 37921010.30 0.2640 0.2265

Moon 99112-02-06 18:28 G 37921010.23 37921010.27 37921010.31 0.2638 0.2409 *

Uranus 99112-05-02 14:23 G 37921095.99 37921096.10 37921096.20 0.0142 0.0084

Uranus 99112-07-29 17:45 G 37921184.15 37921184.24 37921184.33 0.0142 0.0105

Uranus 99112-10-25 20:52 G 37921272.33 37921272.37 37921272.44 0.0142 0.0127

Mars 99114-05-27 01:40 G 37921850.40 37921850.57 37921850.74 0.1944 0.0080

Earth 99115-08-08 06:57 G 37922288.66 37922288.79 37922288.93 0.2691 0.1448

Moon 99115-08-08 07:11 G 37922288.67 37922288.80 37922288.94 0.2698 0.1399 *

Jupiter 99116-07-17 20:09 G 37922633.23 37922633.34 37922633.46 0.0513 0.0404

Mars 99117-02-27 09:21 G 37922857.77 37922857.89 37922858.00 0.1598 0.0167

Moon 99119-01-30 19:11 G 37923560.23 37923560.30 37923560.37 0.2651 0.1901

Earth 99119-01-30 19:11 G 37923560.23 37923560.30 37923560.38 0.2644 0.1833 *

Mars 99119-02-02 10:19 G 37923562.90 37923562.93 37923562.96 0.1587 0.1520

Jupiter 99122-03-16 12:28 G 37924700.93 37924701.02 37924701.10 0.0513 0.0372

Jupiter 99122-06-13 16:04 G 37924790.06 37924790.17 37924790.28 0.0511 0.0266

Saturn 99123-10-12 01:11 G 37925275.46 37925275.55 37925275.65 0.0275 0.0235

Mars 99123-10-16 17:16 G 37925280.13 37925280.22 37925280.31 0.1939 0.1626

Saturn 99124-01-09 00:57 G 37925364.35 37925364.54 37925364.73 0.0276 0.0035

Saturn 99124-04-07 00:28 G 37925453.37 37925453.52 37925453.68 0.0277 0.0168

Mars 99126-07-20 21:07 G 37926288.27 37926288.38 37926288.49 0.1601 0.0577

Mars 99128-06-24 22:04 G 37926993.34 37926993.42 37926993.50 0.1590 0.1112

Jupiter 99128-08-04 07:40 G 37927033.69 37927033.82 37927033.95 0.0515 0.0356

Venus 99130-08-19 09:07 G 37927778.84 37927778.88 37927778.93 0.3639 0.3190

Earth 99132-02-02 12:28 G 37928310.91 37928311.02 37928311.12 0.2642 0.0383

Moon 99132-02-02 12:43 G 37928310.92 37928311.03 37928311.14 0.2647 0.0289 *

Jupiter 99134-04-01 21:07 G 37929100.26 37929100.38 37929100.50 0.0511 0.0114

Mars 99135-12-11 08:52 G 37929718.77 37929718.87 37929718.96 0.1604 0.0990

Venus 99136-03-03 23:59 G 37929802.41 37929802.50 37929802.60 0.3636 0.1355

Pluto 99136-09-02 23:45 G 37929985.44 37929985.49 37929985.55 0.0084 0.0076

Saturn 99136-11-25 01:40 G 37930068.49 37930068.57 37930068.66 0.0288 0.0219

Pluto 99136-11-30 00:57 G 37930073.45 37930073.54 37930073.65 0.0084 0.0057

Saturn 99137-02-21 12:57 G 37930156.92 37930157.04 37930157.17 0.0287 0.0068

Pluto 99137-02-26 02:09 G 37930161.48 37930161.59 37930161.72 0.0084 0.0038

Saturn 99137-05-21 00:14 G 37930245.39 37930245.51 37930245.63 0.0286 0.0081

Pluto 99137-05-25 03:35 G 37930249.52 37930249.65 37930249.78 0.0083 0.0018

Saturn 99137-08-17 11:16 G 37930333.90 37930333.97 37930334.05 0.0284 0.0228

Pluto 99137-08-21 04:47 G 37930337.57 37930337.70 37930337.84 0.0083 0.0003

Mars 99137-11-15 09:50 G 37930423.81 37930423.91 37930424.01 0.1592 0.0705

Pluto 99137-11-17 05:59 G 37930425.62 37930425.75 37930425.89 0.0083 0.0021

Pluto 99138-02-13 07:11 G 37930513.69 37930513.80 37930513.93 0.0083 0.0040

Pluto 99138-05-12 08:23 G 37930601.76 37930601.85 37930601.95 0.0083 0.0059

Pluto 99138-08-08 09:35 G 37930689.87 37930689.90 37930689.95 0.0083 0.0078

Jupiter 99140-05-23 02:52 G 37931343.43 37931343.62 37931343.80 0.0515 0.0097

Venus 99141-09-17 14:52 G 37931826.03 37931826.12 37931826.22 0.3635 0.0509

Mars 99144-07-05 11:31 G 37932847.89 37932847.98 37932848.07 0.1950 0.1612

Earth 99145-02-04 05:31 G 37933061.63 37933061.73 37933061.83 0.2641 0.1095

Moon 99145-02-04 06:14 G 37933061.66 37933061.76 37933061.85 0.2643 0.1218 *

Mars 99145-05-02 20:23 G 37933149.30 37933149.35 37933149.41 0.1608 0.1407

Jupiter 99146-01-19 02:09 G 37933410.47 37933410.59 37933410.72 0.0511 0.0041

Venus 99147-04-03 05:45 G 37933849.67 37933849.74 37933849.82 0.3632 0.2306

Mars 99147-04-07 21:35 G 37933854.28 37933854.40 37933854.51 0.1595 0.0298

Moon 99148-08-05 04:04 G 37934339.54 37934339.67 37934339.79 0.2696 0.1654

Earth 99148-08-05 04:33 G 37934339.56 37934339.69 37934339.82 0.2690 0.1590 *

Uranus 99151-03-25 00:28 G 37935301.42 37935301.52 37935301.64 0.0136 0.0112

Uranus 99151-06-21 08:09 G 37935389.70 37935389.84 37935390.00 0.0136 0.0084

Uranus 99151-09-17 15:50 G 37935477.99 37935478.16 37935478.35 0.0136 0.0057

Uranus 99151-12-14 23:45 G 37935566.30 37935566.49 37935566.69 0.0136 0.0028

Jupiter 99152-03-10 23:16 G 37935653.29 37935653.47 37935653.65 0.0514 0.0142

Uranus 99152-03-12 07:40 G 37935654.62 37935654.82 37935655.01 0.0136 0.0002

Uranus 99152-06-08 15:21 G 37935742.95 37935743.14 37935743.33 0.0136 0.0028

Uranus 99152-09-04 23:02 G 37935831.28 37935831.46 37935831.64 0.0136 0.0056

Uranus 99152-12-02 06:28 G 37935919.63 37935919.77 37935919.93 0.0136 0.0084

Uranus 99153-02-28 14:09 G 37936007.99 37936008.09 37936008.21 0.0136 0.0112

Saturn 99153-05-27 21:21 G 37936096.22 37936096.39 37936096.57 0.0275 0.0106

Saturn 99153-08-24 21:07 G 37936185.20 37936185.38 37936185.56 0.0276 0.0095

Mars 99153-11-25 02:52 G 37936277.45 37936277.62 37936277.79 0.1945 0.0056

Mars 99156-08-28 09:21 G 37937284.77 37937284.89 37937285.00 0.1598 0.0132

Jupiter 99157-11-07 06:57 G 37937720.67 37937720.79 37937720.91 0.0512 0.0197

Jupiter 99158-02-04 10:19 G 37937809.87 37937809.93 37937810.00 0.0510 0.0436

Earth 99158-02-06 22:33 G 37937812.42 37937812.44 37937812.47 0.2640 0.2566

Moon 99158-02-06 23:02 G 37937812.45 37937812.46 37937812.48 0.2636 0.2611 *

Mars 99158-08-03 10:19 G 37937989.92 37937989.93 37937989.94 0.1587 0.1568

Venus 99161-02-04 12:14 G 37938905.85 37938906.01 37938906.18 0.3738 0.0624

Earth 99161-08-08 13:55 G 37939090.98 37939091.08 37939091.18 0.2691 0.2135

Moon 99161-08-08 14:09 G 37939091.01 37939091.09 37939091.18 0.2698 0.2261 *

Mars 99163-04-16 18:14 G 37939707.16 37939707.26 37939707.36 0.1939 0.1507

Jupiter 99163-12-28 19:40 G 37939963.20 37939963.32 37939963.45 0.0514 0.0379

Moon 99165-01-30 23:59 G 37940362.41 37940362.50 37940362.59 0.2650 0.1491

Earth 99165-01-30 23:59 G 37940362.41 37940362.50 37940362.59 0.2643 0.1535 *

Mars 99166-01-18 20:52 G 37940715.26 37940715.37 37940715.48 0.1601 0.0533

Saturn 99166-04-14 02:38 G 37940800.59 37940800.61 37940800.63 0.0289 0.0283

Saturn 99166-07-11 13:55 G 37940888.97 37940889.08 37940889.20 0.0288 0.0131

Saturn 99166-10-08 01:11 G 37940977.42 37940977.55 37940977.68 0.0286 0.0020

Saturn 99167-01-04 12:14 G 37941065.91 37941066.01 37941066.12 0.0285 0.0168

Mars 99167-12-24 22:04 G 37941420.34 37941420.42 37941420.50 0.1590 0.1159

Jupiter 99169-08-26 11:45 G 37942030.90 37942030.99 37942031.08 0.0513 0.0355

Jupiter 99169-11-23 15:21 G 37942120.03 37942120.14 37942120.24 0.0511 0.0281

Mars 99175-06-11 08:38 G 37944145.77 37944145.86 37944145.96 0.1604 0.0945

Jupiter 99176-01-15 07:11 G 37944363.67 37944363.80 37944363.92 0.0515 0.0381

Mars 99177-05-16 09:50 G 37944850.80 37944850.91 37944851.01 0.1592 0.0752

Earth 99178-02-02 17:02 G 37945113.11 37945113.21 37945113.32 0.2642 0.0126

Moon 99178-02-02 17:45 G 37945113.13 37945113.24 37945113.34 0.2646 0.0103 *

Jupiter 99181-06-14 16:33 G 37946341.19 37946341.19 37946341.20 0.0513 0.0511

Jupiter 99181-09-11 20:09 G 37946430.22 37946430.34 37946430.47 0.0511 0.0129

Neptune 99182-06-02 15:35 G 37946694.11 37946694.15 37946694.21 0.0088 0.0081

Neptune 99182-08-29 17:02 G 37946782.14 37946782.21 37946782.28 0.0088 0.0074

Saturn 99182-10-14 18:14 G 37946828.11 37946828.26 37946828.40 0.0275 0.0179

Neptune 99182-11-25 18:14 G 37946870.18 37946870.26 37946870.34 0.0088 0.0067

Saturn 99183-01-11 17:45 G 37946917.05 37946917.24 37946917.43 0.0276 0.0021

Neptune 99183-02-21 19:11 G 37946958.22 37946958.30 37946958.41 0.0088 0.0061

Saturn 99183-04-10 17:16 G 37947006.12 37947006.22 37947006.34 0.0277 0.0224

Neptune 99183-05-20 20:38 G 37947046.26 37947046.36 37947046.47 0.0088 0.0054

Neptune 99183-08-16 21:50 G 37947134.31 37947134.41 37947134.53 0.0088 0.0047

Neptune 99183-11-12 23:02 G 37947222.35 37947222.46 37947222.59 0.0088 0.0040

Mars 99184-01-04 11:59 G 37947274.93 37947275.00 37947275.08 0.1950 0.1720

Neptune 99184-02-09 00:28 G 37947310.40 37947310.52 37947310.64 0.0088 0.0033

Neptune 99184-05-07 01:40 G 37947398.45 37947398.57 37947398.70 0.0088 0.0026

Neptune 99184-08-03 03:07 G 37947486.50 37947486.63 37947486.76 0.0088 0.0019

Neptune 99184-10-30 04:19 G 37947574.55 37947574.68 37947574.81 0.0088 0.0012

Mars 99184-10-31 20:23 G 37947576.29 37947576.35 37947576.41 0.1608 0.1360

Neptune 99185-01-26 05:31 G 37947662.60 37947662.73 37947662.86 0.0088 0.0005

Neptune 99185-04-24 06:43 G 37947750.65 37947750.78 37947750.91 0.0088 0.0002

Neptune 99185-07-21 07:55 G 37947838.70 37947838.83 37947838.96 0.0088 0.0009

Neptune 99185-10-17 09:07 G 37947926.76 37947926.88 37947927.01 0.0088 0.0016

Neptune 99186-01-13 10:19 G 37948014.81 37948014.93 37948015.06 0.0088 0.0023

Neptune 99186-04-11 11:31 G 37948102.86 37948102.98 37948103.11 0.0088 0.0030

Neptune 99186-07-08 12:43 G 37948190.92 37948191.03 37948191.16 0.0088 0.0037

Neptune 99186-10-04 13:55 G 37948278.98 37948279.08 37948279.21 0.0088 0.0044

Mars 99186-10-06 21:35 G 37948281.28 37948281.40 37948281.51 0.1595 0.0346

Neptune 99186-12-31 15:21 G 37948367.04 37948367.14 37948367.25 0.0088 0.0050

Venus 99187-03-26 06:28 G 37948451.70 37948451.77 37948451.84 0.3638 0.2535

Neptune 99187-03-29 16:33 G 37948455.10 37948455.19 37948455.29 0.0088 0.0057

Neptune 99187-06-25 17:45 G 37948543.16 37948543.24 37948543.34 0.0088 0.0064

Neptune 99187-09-21 18:57 G 37948631.22 37948631.29 37948631.38 0.0088 0.0071

Jupiter 99187-11-03 02:52 G 37948673.44 37948673.62 37948673.81 0.0514 0.0134

Neptune 99187-12-18 20:09 G 37948719.29 37948719.34 37948719.41 0.0088 0.0078

Neptune 99188-03-15 21:21 G 37948807.37 37948807.39 37948807.44 0.0088 0.0085

Earth 99191-02-05 10:19 G 37949863.84 37949863.93 37949864.02 0.2641 0.1394

Moon 99191-02-05 11:02 G 37949863.87 37949863.96 37949864.04 0.2642 0.1514 *

Venus 99192-10-08 21:21 G 37950475.29 37950475.39 37950475.49 0.3636 0.0707

Mars 99193-05-26 03:50 G 37950704.50 37950704.66 37950704.83 0.1945 0.0184

Jupiter 99193-07-01 01:26 G 37950740.43 37950740.56 37950740.69 0.0511 0.0023

Uranus 99193-09-26 08:09 G 37950827.84 37950827.84 37950827.85 0.0141 0.0141

Uranus 99193-12-23 11:31 G 37950915.92 37950915.98 37950916.05 0.0141 0.0120

Uranus 99194-03-21 14:52 G 37951004.04 37951004.12 37951004.22 0.0141 0.0100

Uranus 99194-06-17 18:14 G 37951092.16 37951092.26 37951092.38 0.0142 0.0079

Moon 99194-08-06 11:16 G 37951141.82 37951141.97 37951142.12 0.2697 0.0984

Earth 99194-08-06 11:45 G 37951141.83 37951141.99 37951142.14 0.2690 0.0875 *

Uranus 99194-09-13 21:50 G 37951180.29 37951180.41 37951180.53 0.0142 0.0057

Uranus 99194-12-11 01:11 G 37951268.43 37951268.55 37951268.68 0.0142 0.0037

Uranus 99195-03-09 04:47 G 37951356.57 37951356.70 37951356.83 0.0142 0.0016

Uranus 99195-06-05 08:09 G 37951444.71 37951444.84 37951444.97 0.0142 0.0006

Uranus 99195-09-01 11:31 G 37951532.85 37951532.98 37951533.11 0.0142 0.0027

Uranus 99195-11-28 14:52 G 37951621.00 37951621.12 37951621.25 0.0142 0.0048

Saturn 99195-11-28 15:35 G 37951621.05 37951621.15 37951621.25 0.0288 0.0185 *

Uranus 99196-02-24 18:14 G 37951709.15 37951709.26 37951709.38 0.0142 0.0069

Saturn 99196-02-25 02:52 G 37951709.49 37951709.62 37951709.75 0.0287 0.0034

Mars 99196-02-27 09:21 G 37951711.77 37951711.89 37951712.00 0.1598 0.0083

Uranus 99196-05-22 21:50 G 37951797.31 37951797.41 37951797.51 0.0142 0.0090

Saturn 99196-05-23 13:55 G 37951797.97 37951798.08 37951798.20 0.0286 0.0116

Uranus 99196-08-19 01:11 G 37951885.47 37951885.55 37951885.63 0.0142 0.0111

Saturn 99196-08-20 01:11 G 37951886.50 37951886.55 37951886.60 0.0284 0.0262

Uranus 99196-11-15 04:19 G 37951973.65 37951973.68 37951973.74 0.0142 0.0133

Venus 99198-04-24 12:14 G 37952498.92 37952499.01 37952499.11 0.3634 0.1123

Jupiter 99199-08-21 21:50 G 37952983.23 37952983.41 37952983.59 0.0514 0.0131

Mars 99202-10-15 19:11 G 37954134.18 37954134.30 37954134.41 0.1939 0.1391

Venus 99203-11-08 03:07 G 37954522.57 37954522.63 37954522.69 0.3632 0.2927

Jupiter 99205-04-19 06:28 G 37955050.65 37955050.77 37955050.89 0.0512 0.0173

Jupiter 99205-07-17 10:04 G 37955139.86 37955139.92 37955139.97 0.0510 0.0459

Mars 99205-07-19 20:52 G 37955142.26 37955142.37 37955142.48 0.1601 0.0486

Mars 99207-06-24 22:04 G 37955847.35 37955847.42 37955847.49 0.1589 0.1210

Earth 99211-02-01 04:47 G 37957164.60 37957164.70 37957164.79 0.2643 0.1236

Moon 99211-02-01 04:47 G 37957164.61 37957164.70 37957164.79 0.2650 0.1290 *

Jupiter 99211-06-09 18:28 G 37957293.14 37957293.27 37957293.40 0.0514 0.0368

Saturn 99212-03-02 15:07 G 37957560.05 37957560.13 37957560.21 0.0274 0.0246

Saturn 99212-05-30 14:38 G 37957648.92 37957649.11 37957649.30 0.0275 0.0048

Saturn 99212-08-27 14:09 G 37957737.94 37957738.09 37957738.26 0.0276 0.0154

Mars 99214-12-10 08:38 G 37958572.77 37958572.86 37958572.96 0.1604 0.0901

Mars 99216-11-14 09:35 G 37959277.80 37959277.90 37959278.01 0.1592 0.0800

Jupiter 99217-02-05 11:02 G 37959360.87 37959360.96 37959361.06 0.0512 0.0336

Jupiter 99217-05-05 14:38 G 37959450.01 37959450.11 37959450.21 0.0510 0.0300

Venus 99217-09-11 15:50 G 37959579.02 37959579.16 37959579.30 0.3740 0.2024

Jupiter 99223-06-27 06:28 G 37961693.66 37961693.77 37961693.88 0.0515 0.0404

Mars 99223-07-05 13:11 G 37961702.00 37961702.05 37961702.10 0.1950 0.1849

Earth 99224-02-03 21:50 G 37961915.30 37961915.41 37961915.52 0.2642 0.0228

Moon 99224-02-03 22:33 G 37961915.33 37961915.44 37961915.54 0.2646 0.0393 *

Mars 99224-05-01 20:23 G 37962003.29 37962003.35 37962003.42 0.1608 0.1317

Saturn 99225-04-16 16:33 G 37962353.13 37962353.19 37962353.26 0.0289 0.0247

Saturn 99225-07-14 03:50 G 37962441.54 37962441.66 37962441.79 0.0288 0.0095

Saturn 99225-10-10 15:07 G 37962530.00 37962530.13 37962530.26 0.0286 0.0056

Saturn 99226-01-07 02:23 G 37962618.51 37962618.60 37962618.69 0.0285 0.0204

Mars 99226-04-06 21:21 G 37962708.28 37962708.39 37962708.51 0.1595 0.0389

Jupiter 99228-11-24 15:50 G 37963671.13 37963671.16 37963671.20 0.0513 0.0494

Jupiter 99229-02-21 19:26 G 37963760.19 37963760.31 37963760.44 0.0511 0.0145

Mars 99232-11-24 04:33 G 37965131.52 37965131.69 37965131.86 0.1945 0.0282

Uranus 99235-01-15 23:45 G 37965914.46 37965914.49 37965914.53 0.0136 0.0134

Uranus 99235-04-14 07:26 G 37966002.70 37966002.81 37966002.94 0.0136 0.0106

Jupiter 99235-04-15 02:09 G 37966003.41 37966003.59 37966003.77 0.0514 0.0154

Uranus 99235-07-11 15:21 G 37966090.98 37966091.14 37966091.30 0.0136 0.0077

Mars 99235-08-28 09:07 G 37966138.77 37966138.88 37966139.00 0.1598 0.0056

Uranus 99235-10-07 23:02 G 37966179.28 37966179.46 37966179.65 0.0136 0.0049

Uranus 99236-01-04 06:57 G 37966267.59 37966267.79 37966267.98 0.0136 0.0021

Uranus 99236-04-01 14:38 G 37966355.91 37966356.11 37966356.30 0.0136 0.0007

Uranus 99236-06-28 22:04 G 37966444.24 37966444.42 37966444.62 0.0136 0.0035

Uranus 99236-09-25 05:45 G 37966532.58 37966532.74 37966532.92 0.0136 0.0063

Uranus 99236-12-22 13:40 G 37966620.93 37966621.07 37966621.22 0.0136 0.0090

Earth 99237-02-05 14:52 G 37966666.04 37966666.12 37966666.21 0.2641 0.1696

Moon 99237-02-05 15:35 G 37966666.07 37966666.15 37966666.23 0.2640 0.1766 *

Uranus 99237-03-20 21:07 G 37966709.30 37966709.38 37966709.48 0.0136 0.0118

Moon 99240-08-06 18:14 G 37967944.11 37967944.26 37967944.42 0.2697 0.0154

Earth 99240-08-06 18:43 G 37967944.12 37967944.28 37967944.44 0.2690 0.0178 *

Jupiter 99240-12-11 00:28 G 37968070.39 37968070.52 37968070.65 0.0512 0.0013

Saturn 99241-10-17 11:45 G 37968380.82 37968380.99 37968381.17 0.0275 0.0118

Saturn 99242-01-14 11:16 G 37968469.79 37968469.97 37968470.16 0.0276 0.0084

Mars 99242-04-15 19:55 G 37968561.21 37968561.33 37968561.46 0.1940 0.1280

Venus 99243-10-31 03:35 G 37969124.57 37969124.65 37969124.74 0.3638 0.1900

Moon 99244-01-30 16:04 G 37969216.14 37969216.17 37969216.21 0.2651 0.2494

Earth 99244-01-30 16:19 G 37969216.14 37969216.18 37969216.23 0.2644 0.2397 *

Mars 99245-01-17 20:52 G 37969569.26 37969569.37 37969569.48 0.1601 0.0438

Mars 99246-12-23 22:04 G 37970274.35 37970274.42 37970274.49 0.1590 0.1256

Jupiter 99247-01-31 22:04 G 37970313.23 37970313.42 37970313.60 0.0514 0.0095

Venus 99249-05-15 18:43 G 37971148.18 37971148.28 37971148.38 0.3635 0.0136

Jupiter 99252-09-29 05:31 G 37972380.61 37972380.73 37972380.85 0.0512 0.0163

Jupiter 99252-12-27 09:07 G 37972469.83 37972469.88 37972469.92 0.0510 0.0470

Mars 99254-06-10 08:38 G 37972999.76 37972999.86 37972999.96 0.1604 0.0852

Venus 99254-11-29 09:35 G 37973171.81 37973171.90 37973171.98 0.3633 0.1762

Saturn 99254-12-01 05:31 G 37973173.62 37973173.73 37973173.84 0.0288 0.0147

Saturn 99255-02-27 16:47 G 37973262.07 37973262.20 37973262.33 0.0287 0.0008

Saturn 99255-05-27 04:04 G 37973350.56 37973350.67 37973350.78 0.0286 0.0153

Mars 99256-05-15 09:35 G 37973704.81 37973704.90 37973705.00 0.1592 0.0850

Moon 99257-02-01 09:35 G 37973966.80 37973966.90 37973967.01 0.2649 0.0863

Earth 99257-02-01 09:35 G 37973966.80 37973966.90 37973967.00 0.2643 0.0942 *

Jupiter 99258-11-19 16:33 G 37974623.06 37974623.19 37974623.33 0.0514 0.0362

Venus 99260-06-14 00:28 G 37975195.50 37975195.52 37975195.53 0.3631 0.3564

Mars 99263-10-31 20:23 G 37976430.28 37976430.35 37976430.42 0.1608 0.1273

Jupiter 99264-07-18 10:47 G 37976690.85 37976690.95 37976691.05 0.0512 0.0313

Jupiter 99264-10-15 14:09 G 37976779.99 37976780.09 37976780.19 0.0510 0.0321

Mars 99265-10-05 21:21 G 37977135.28 37977135.39 37977135.51 0.1595 0.0437

Neptune 99266-02-11 14:52 G 37977264.12 37977264.12 37977264.15 0.0090 0.0089

Neptune 99266-05-10 18:43 G 37977352.20 37977352.28 37977352.39 0.0090 0.0079

Neptune 99266-08-06 22:33 G 37977440.33 37977440.44 37977440.59 0.0090 0.0068

Neptune 99266-11-03 02:23 G 37977528.46 37977528.60 37977528.77 0.0090 0.0057

Neptune 99267-01-30 06:14 G 37977616.61 37977616.76 37977616.95 0.0090 0.0046

Neptune 99267-04-28 10:04 G 37977704.75 37977704.92 37977705.12 0.0090 0.0035

Neptune 99267-07-25 13:55 G 37977792.90 37977793.08 37977793.28 0.0090 0.0024

Neptune 99267-10-21 17:59 G 37977881.06 37977881.25 37977881.45 0.0090 0.0012

Neptune 99268-01-17 21:50 G 37977969.22 37977969.41 37977969.61 0.0090 0.0002

Neptune 99268-04-15 01:40 G 37978057.38 37978057.57 37978057.77 0.0090 0.0010

Neptune 99268-07-12 05:31 G 37978145.54 37978145.73 37978145.92 0.0090 0.0021

Neptune 99268-10-08 09:07 G 37978233.71 37978233.88 37978234.07 0.0090 0.0032

Neptune 99269-01-04 12:57 G 37978321.88 37978322.04 37978322.22 0.0090 0.0043

Neptune 99269-04-02 16:47 G 37978410.05 37978410.20 37978410.36 0.0090 0.0054

Neptune 99269-06-29 20:23 G 37978498.23 37978498.35 37978498.50 0.0090 0.0065

Neptune 99269-09-26 00:14 G 37978586.42 37978586.51 37978586.63 0.0090 0.0076

Neptune 99269-12-23 03:50 G 37978674.64 37978674.66 37978674.73 0.0090 0.0087

Earth 99270-02-04 02:38 G 37978717.50 37978717.61 37978717.72 0.2642 0.0526

Moon 99270-02-04 03:07 G 37978717.53 37978717.63 37978717.74 0.2645 0.0571 *

Jupiter 99270-12-07 04:33 G 37979023.58 37979023.69 37979023.81 0.0516 0.0409

Saturn 99271-03-06 09:21 G 37979112.75 37979112.89 37979113.04 0.0274 0.0179

Saturn 99271-06-03 09:07 G 37979201.69 37979201.88 37979202.07 0.0275 0.0021

Saturn 99271-08-31 08:38 G 37979290.75 37979290.86 37979290.97 0.0276 0.0222

Mars 99272-05-25 05:31 G 37979558.57 37979558.73 37979558.89 0.1945 0.0405

Mars 99275-02-26 09:07 G 37980565.76 37980565.88 37980566.00 0.1598 0.0025

Jupiter 99276-05-06 15:07 G 37981001.09 37981001.13 37981001.18 0.0513 0.0477

Jupiter 99276-08-03 18:43 G 37981090.17 37981090.28 37981090.41 0.0511 0.0161

Uranus 99277-10-16 15:21 G 37981529.11 37981529.14 37981529.18 0.0141 0.0136

Uranus 99278-01-12 18:43 G 37981617.21 37981617.28 37981617.36 0.0142 0.0116

Uranus 99278-04-10 22:04 G 37981705.33 37981705.42 37981705.52 0.0142 0.0095

Uranus 99278-07-08 01:40 G 37981793.46 37981793.57 37981793.68 0.0142 0.0074

Uranus 99278-10-04 05:02 G 37981881.59 37981881.71 37981881.83 0.0142 0.0053

Uranus 99278-12-31 08:23 G 37981969.73 37981969.85 37981969.98 0.0142 0.0032

Uranus 99279-03-29 11:45 G 37982057.86 37982057.99 37982058.13 0.0142 0.0012

Uranus 99279-06-25 15:21 G 37982146.01 37982146.14 37982146.27 0.0142 0.0011

Uranus 99279-09-21 18:43 G 37982234.15 37982234.28 37982234.41 0.0142 0.0032

Uranus 99279-12-18 22:04 G 37982322.30 37982322.42 37982322.54 0.0142 0.0053

Uranus 99280-03-16 01:26 G 37982410.45 37982410.56 37982410.68 0.0142 0.0074

Uranus 99280-06-12 04:47 G 37982498.61 37982498.70 37982498.80 0.0142 0.0095

Uranus 99280-09-08 08:23 G 37982586.78 37982586.85 37982586.92 0.0142 0.0116

Uranus 99280-12-05 11:45 G 37982674.96 37982674.99 37982675.02 0.0142 0.0138

Mars 99281-10-14 21:07 G 37982988.25 37982988.38 37982988.51 0.1940 0.1153

Jupiter 99282-09-25 00:57 G 37983333.37 37983333.54 37983333.72 0.0515 0.0170

Earth 99283-02-06 19:40 G 37983468.25 37983468.32 37983468.39 0.2641 0.1994

Moon 99283-02-06 20:23 G 37983468.28 37983468.35 37983468.41 0.2638 0.2143 *

Saturn 99284-04-19 06:57 G 37983905.70 37983905.79 37983905.88 0.0289 0.0206

Saturn 99284-07-16 18:14 G 37983994.13 37983994.26 37983994.38 0.0288 0.0054

Mars 99284-07-18 20:52 G 37983996.26 37983996.37 37983996.48 0.1601 0.0393

Saturn 99284-10-13 05:16 G 37984082.60 37984082.72 37984082.85 0.0286 0.0097

Saturn 99285-01-09 16:33 G 37984171.12 37984171.19 37984171.25 0.0285 0.0243

Mars 99286-06-23 22:04 G 37984701.35 37984701.42 37984701.48 0.1589 0.1304

Moon 99286-08-08 01:40 G 37984746.41 37984746.57 37984746.72 0.2697 0.0442

Earth 99286-08-08 01:40 G 37984746.41 37984746.57 37984746.73 0.2690 0.0539 *

Jupiter 99288-05-22 23:31 G 37985400.36 37985400.48 37985400.61 0.0511 0.0012

Pluto 99289-09-30 19:40 G 37985896.25 37985896.32 37985896.42 0.0060 0.0054

Pluto 99289-12-27 20:52 G 37985984.26 37985984.37 37985984.52 0.0060 0.0044

Moon 99290-01-30 20:52 G 37986018.31 37986018.37 37986018.43 0.2650 0.2122

Earth 99290-01-30 21:07 G 37986018.32 37986018.38 37986018.45 0.2644 0.2103 *

Pluto 99290-03-25 22:04 G 37986072.28 37986072.42 37986072.60 0.0060 0.0034

Pluto 99290-06-21 23:45 G 37986160.31 37986160.49 37986160.67 0.0061 0.0023

Pluto 99290-09-18 00:57 G 37986248.36 37986248.54 37986248.73 0.0061 0.0013

Pluto 99290-12-15 02:09 G 37986336.40 37986336.59 37986336.78 0.0061 0.0003

Pluto 99291-03-13 03:21 G 37986424.46 37986424.64 37986424.83 0.0061 0.0008

Pluto 99291-06-09 04:33 G 37986512.52 37986512.69 37986512.88 0.0061 0.0018

Pluto 99291-09-05 05:59 G 37986600.58 37986600.75 37986600.92 0.0061 0.0028

Pluto 99291-12-02 06:43 G 37986688.66 37986688.78 37986688.95 0.0061 0.0039

Pluto 99292-02-28 08:09 G 37986776.74 37986776.84 37986776.97 0.0061 0.0049

Pluto 99292-05-26 09:35 G 37986864.87 37986864.90 37986864.95 0.0061 0.0059

Mars 99293-12-09 08:38 G 37987426.76 37987426.86 37987426.96 0.1604 0.0810

Jupiter 99294-07-13 20:52 G 37987643.18 37987643.37 37987643.55 0.0514 0.0080

Venus 99294-11-21 10:04 G 37987773.87 37987773.92 37987773.97 0.3639 0.3082

Mars 99295-11-14 09:35 G 37988131.81 37988131.90 37988132.00 0.1592 0.0895

Jupiter 99300-03-12 04:19 G 37989710.56 37989710.68 37989710.80 0.0512 0.0157

Venus 99300-06-07 00:57 G 37989797.45 37989797.54 37989797.64 0.3637 0.1246

Jupiter 99300-06-09 07:55 G 37989799.79 37989799.83 37989799.87 0.0510 0.0476

Saturn 99300-07-24 06:57 G 37989844.71 37989844.79 37989844.88 0.0274 0.0245

Saturn 99300-10-21 06:28 G 37989933.59 37989933.77 37989933.96 0.0275 0.0046

Saturn 99301-01-18 05:59 G 37990022.60 37990022.75 37990022.92 0.0277 0.0156

Earth 99303-02-03 14:09 G 37990768.99 37990769.09 37990769.20 0.2643 0.0648

Moon 99303-02-03 14:38 G 37990769.01 37990769.11 37990769.21 0.2648 0.0625 *

Mars 99303-05-02 20:23 G 37990857.28 37990857.35 37990857.42 0.1608 0.1225

Mars 99305-04-06 21:21 G 37991562.28 37991562.39 37991562.50 0.1595 0.0482

Venus 99305-12-21 15:50 G 37991821.06 37991821.16 37991821.26 0.3635 0.0591

Jupiter 99306-05-02 16:33 G 37991953.05 37991953.19 37991953.33 0.0513 0.0330

Venus 99311-07-07 06:43 G 37993844.71 37993844.78 37993844.86 0.3633 0.2397

Mars 99311-11-25 06:43 G 37993985.62 37993985.78 37993985.94 0.1946 0.0541

Jupiter 99311-12-30 09:35 G 37994020.80 37994020.90 37994021.00 0.0512 0.0307

Jupiter 99312-03-28 12:57 G 37994109.95 37994110.04 37994110.14 0.0510 0.0328

Saturn 99313-09-07 08:52 G 37994637.81 37994637.87 37994637.93 0.0289 0.0254

Saturn 99313-12-04 20:09 G 37994726.22 37994726.34 37994726.46 0.0288 0.0102

Saturn 99314-03-03 07:26 G 37994814.69 37994814.81 37994814.94 0.0287 0.0050

Saturn 99314-05-30 18:43 G 37994903.19 37994903.28 37994903.37 0.0285 0.0198

Mars 99314-08-28 09:07 G 37994992.77 37994992.88 37994993.00 0.1597 0.0077

Earth 99316-02-06 07:26 G 37995519.70 37995519.81 37995519.91 0.2642 0.0831

Moon 99316-02-06 07:55 G 37995519.73 37995519.83 37995519.93 0.2644 0.0987 *

Jupiter 99318-05-20 02:23 G 37996353.49 37996353.60 37996353.72 0.0515 0.0408

Uranus 99319-02-06 06:57 G 37996615.73 37996615.79 37996615.87 0.0136 0.0126

Uranus 99319-05-05 14:52 G 37996703.99 37996704.12 37996704.26 0.0136 0.0098

Uranus 99319-08-01 22:33 G 37996792.28 37996792.44 37996792.61 0.0136 0.0070

Earth 99319-08-06 23:02 G 37996797.41 37996797.46 37996797.52 0.2689 0.2514

Uranus 99319-10-29 06:28 G 37996880.58 37996880.77 37996880.95 0.0136 0.0042

Uranus 99320-01-25 14:09 G 37996968.89 37996969.09 37996969.28 0.0136 0.0014

Uranus 99320-04-22 21:50 G 37997057.22 37997057.41 37997057.61 0.0136 0.0014

Uranus 99320-07-20 05:31 G 37997145.55 37997145.73 37997145.92 0.0136 0.0042

Uranus 99320-10-16 13:11 G 37997233.89 37997234.05 37997234.22 0.0136 0.0070

Uranus 99321-01-12 20:38 G 37997322.24 37997322.36 37997322.51 0.0136 0.0098

Uranus 99321-04-11 04:33 G 37997410.62 37997410.69 37997410.76 0.0136 0.0125

Mars 99321-04-15 21:50 G 37997415.27 37997415.41 37997415.55 0.1940 0.1045

Jupiter 99323-10-18 14:38 G 37998331.05 37998331.11 37998331.16 0.0513 0.0459

Jupiter 99324-01-15 18:14 G 37998420.14 37998420.26 37998420.37 0.0511 0.0178

Mars 99324-01-18 20:52 G 37998423.25 37998423.37 37998423.48 0.1601 0.0351

Venus 99325-05-10 08:09 G 37998900.69 37998900.84 37998901.00 0.3738 0.1219

Mars 99325-12-23 22:04 G 37999128.36 37999128.42 37999128.48 0.1589 0.1355

Earth 99329-02-08 00:28 G 38000270.47 38000270.52 38000270.57 0.2640 0.2297

Moon 99329-02-08 00:57 G 38000270.50 38000270.54 38000270.59 0.2637 0.2331 *

Jupiter 99330-03-07 22:47 G 38000663.27 38000663.45 38000663.62 0.0515 0.0165

Saturn 99330-03-10 05:02 G 38000665.54 38000665.71 38000665.89 0.0274 0.0101

Saturn 99330-06-07 04:33 G 38000754.51 38000754.69 38000754.87 0.0276 0.0099

Earth 99332-08-09 08:23 G 38001548.71 38001548.85 38001549.00 0.2691 0.1227

Moon 99332-08-09 08:52 G 38001548.73 38001548.87 38001549.00 0.2697 0.1391 *

Mars 99333-06-10 08:38 G 38001853.76 38001853.86 38001853.96 0.1604 0.0764

Mars 99335-05-16 09:35 G 38002558.81 38002558.90 38002558.99 0.1592 0.0940

Jupiter 99335-11-03 22:47 G 38002730.32 38002730.45 38002730.57 0.0511 0.0021

Moon 99336-02-02 01:40 G 38002820.50 38002820.57 38002820.65 0.2650 0.1847

Earth 99336-02-02 01:55 G 38002820.50 38002820.58 38002820.66 0.2644 0.1807 *

Jupiter 99341-12-24 19:11 G 38004973.11 38004973.30 38004973.48 0.0514 0.0074

Mars 99342-10-31 20:23 G 38005284.27 38005284.35 38005284.42 0.1608 0.1184

Saturn 99343-04-23 21:50 G 38005458.31 38005458.41 38005458.52 0.0289 0.0156

Saturn 99343-07-21 09:07 G 38005546.75 38005546.88 38005547.01 0.0287 0.0010

Saturn 99343-10-17 20:23 G 38005635.24 38005635.35 38005635.46 0.0286 0.0145

Mars 99344-10-05 21:21 G 38005989.28 38005989.39 38005989.50 0.1595 0.0529

Neptune 99346-12-02 14:09 G 38006777.07 38006777.09 38006777.14 0.0088 0.0085

Neptune 99347-02-28 15:21 G 38006865.10 38006865.14 38006865.21 0.0088 0.0078

Neptune 99347-05-27 16:47 G 38006953.13 38006953.20 38006953.28 0.0088 0.0071

Jupiter 99347-08-23 03:21 G 38007040.52 38007040.64 38007040.76 0.0512 0.0146

Neptune 99347-08-23 17:59 G 38007041.17 38007041.25 38007041.35 0.0088 0.0064

Neptune 99347-11-19 19:11 G 38007129.21 38007129.30 38007129.41 0.0088 0.0057

Jupiter 99347-11-20 06:43 G 38007129.75 38007129.78 38007129.82 0.0510 0.0485

Neptune 99348-02-15 20:38 G 38007217.26 38007217.36 38007217.47 0.0088 0.0050

Neptune 99348-05-13 21:50 G 38007305.30 38007305.41 38007305.53 0.0088 0.0043

Neptune 99348-08-09 23:16 G 38007393.35 38007393.47 38007393.59 0.0088 0.0036

Neptune 99348-11-06 00:28 G 38007481.40 38007481.52 38007481.65 0.0088 0.0029

Neptune 99349-02-02 01:40 G 38007569.45 38007569.57 38007569.70 0.0088 0.0022

Earth 99349-02-03 18:57 G 38007571.18 38007571.29 38007571.40 0.2643 0.0346

Moon 99349-02-03 19:26 G 38007571.20 38007571.31 38007571.42 0.2648 0.0245 *

Neptune 99349-05-01 02:52 G 38007657.50 38007657.62 38007657.75 0.0088 0.0016

Neptune 99349-07-28 04:19 G 38007745.55 38007745.68 38007745.81 0.0088 0.0009

Neptune 99349-10-24 05:31 G 38007833.60 38007833.73 38007833.86 0.0088 0.0002

Neptune 99350-01-20 06:43 G 38007921.65 38007921.78 38007921.91 0.0088 0.0006

Neptune 99350-04-18 07:55 G 38008009.70 38008009.83 38008009.96 0.0088 0.0012

Neptune 99350-07-15 09:07 G 38008097.75 38008097.88 38008098.01 0.0088 0.0019

Neptune 99350-10-11 10:19 G 38008185.81 38008185.93 38008186.06 0.0088 0.0026

Neptune 99351-01-07 11:45 G 38008273.87 38008273.99 38008274.11 0.0088 0.0033

Neptune 99351-04-05 12:57 G 38008361.92 38008362.04 38008362.16 0.0088 0.0040

Mars 99351-05-26 07:11 G 38008412.64 38008412.80 38008412.96 0.1946 0.0630

Venus 99351-06-29 07:26 G 38008446.73 38008446.81 38008446.88 0.3638 0.2431

Neptune 99351-07-02 14:09 G 38008449.98 38008450.09 38008450.20 0.0088 0.0047

Neptune 99351-09-28 15:21 G 38008538.04 38008538.14 38008538.25 0.0088 0.0054

Neptune 99351-12-25 16:33 G 38008626.10 38008626.19 38008626.29 0.0088 0.0061

Neptune 99352-03-22 17:45 G 38008714.17 38008714.24 38008714.33 0.0088 0.0068

Mars 99352-03-23 07:55 G 38008714.83 38008714.83 38008714.84 0.1611 0.1603

Neptune 99352-06-18 18:57 G 38008802.23 38008802.29 38008802.37 0.0088 0.0075

Neptune 99352-09-14 20:09 G 38008890.31 38008890.34 38008890.40 0.0088 0.0082

Jupiter 99353-10-12 14:52 G 38009282.98 38009283.12 38009283.27 0.0514 0.0322

Mars 99354-02-26 09:07 G 38009419.76 38009419.88 38009420.00 0.1598 0.0117

Venus 99357-01-11 22:19 G 38010470.33 38010470.43 38010470.53 0.3636 0.0598

Jupiter 99359-06-11 08:09 G 38011350.74 38011350.84 38011350.94 0.0513 0.0307

Saturn 99359-07-28 03:21 G 38011397.49 38011397.64 38011397.80 0.0275 0.0161

Jupiter 99359-09-08 11:31 G 38011439.89 38011439.98 38011440.08 0.0510 0.0329

Saturn 99359-10-25 03:07 G 38011486.44 38011486.63 38011486.82 0.0276 0.0039

Saturn 99360-01-22 02:38 G 38011575.52 38011575.61 38011575.70 0.0277 0.0241

Mars 99360-10-14 22:47 G 38011842.31 38011842.45 38011842.60 0.1941 0.0921

Uranus 99361-11-06 22:19 G 38012230.39 38012230.43 38012230.47 0.0142 0.0133

Uranus 99362-02-03 01:40 G 38012318.50 38012318.57 38012318.65 0.0142 0.0112

Earth 99362-02-06 11:59 G 38012321.91 38012322.00 38012322.10 0.2641 0.1127

Moon 99362-02-06 12:43 G 38012321.93 38012322.03 38012322.13 0.2642 0.1178 *

Uranus 99362-05-02 05:02 G 38012406.62 38012406.71 38012406.81 0.0142 0.0092

Venus 99362-07-28 13:11 G 38012493.96 38012494.05 38012494.14 0.3634 0.1229

Uranus 99362-07-29 08:23 G 38012494.74 38012494.85 38012494.97 0.0142 0.0071

Uranus 99362-10-25 11:45 G 38012582.87 38012582.99 38012583.12 0.0142 0.0050

Uranus 99363-01-21 15:21 G 38012671.01 38012671.14 38012671.27 0.0142 0.0029

Uranus 99363-04-19 18:43 G 38012759.15 38012759.28 38012759.41 0.0142 0.0008

Uranus 99363-07-16 22:04 G 38012847.29 38012847.42 38012847.55 0.0142 0.0014

Mars 99363-07-19 20:52 G 38012850.25 38012850.37 38012850.48 0.1601 0.0300

Uranus 99363-10-13 01:26 G 38012935.44 38012935.56 38012935.69 0.0142 0.0035

Uranus 99364-01-09 04:47 G 38013023.59 38013023.70 38013023.83 0.0142 0.0056

Uranus 99364-04-06 08:09 G 38013111.74 38013111.84 38013111.96 0.0142 0.0078

Uranus 99364-07-03 11:45 G 38013199.90 38013199.99 38013200.09 0.0142 0.0098

Uranus 99364-09-29 15:07 G 38013288.07 38013288.13 38013288.20 0.0142 0.0119

Uranus 99364-12-26 18:28 G 38013376.26 38013376.27 38013376.30 0.0142 0.0141

Mars 99365-06-23 21:50 G 38013555.36 38013555.41 38013555.47 0.1589 0.1402

Moon 99365-08-07 05:31 G 38013599.61 38013599.73 38013599.84 0.2696 0.1821

Earth 99365-08-07 06:14 G 38013599.64 38013599.76 38013599.88 0.2689 0.1798 *

Jupiter 99365-10-30 01:55 G 38013683.48 38013683.58 38013683.68 0.0515 0.0432

Venus 99368-02-11 04:04 G 38014517.62 38014517.67 38014517.72 0.3632 0.3034

Jupiter 99371-03-30 13:11 G 38015661.00 38015661.05 38015661.11 0.0513 0.0458

Jupiter 99371-06-27 16:47 G 38015750.08 38015750.20 38015750.32 0.0511 0.0179

Saturn 99372-09-10 00:14 G 38016190.42 38016190.51 38016190.60 0.0289 0.0200

Saturn 99372-12-07 11:31 G 38016278.85 38016278.98 38016279.11 0.0287 0.0048

Mars 99372-12-09 08:38 G 38016280.75 38016280.86 38016280.96 0.1604 0.0718

Saturn 99373-03-05 22:47 G 38016367.33 38016367.45 38016367.57 0.0286 0.0102

Saturn 99373-06-02 09:50 G 38016455.86 38016455.91 38016455.98 0.0285 0.0250

Mars 99374-11-14 09:35 G 38016985.81 38016985.90 38016985.99 0.1592 0.0992

Earth 99375-02-09 05:16 G 38017072.70 38017072.72 38017072.73 0.2640 0.2599

Jupiter 99377-08-17 20:09 G 38017993.16 38017993.34 38017993.52 0.0515 0.0158

Earth 99378-08-10 15:21 G 38018351.03 38018351.14 38018351.26 0.2691 0.1931

Moon 99378-08-10 16:19 G 38018351.07 38018351.18 38018351.29 0.2697 0.1939 *

Venus 99381-12-15 11:45 G 38019573.84 38019573.99 38019574.14 0.3739 0.1419

Moon 99382-02-02 06:43 G 38019622.69 38019622.78 38019622.86 0.2650 0.1529

Earth 99382-02-02 06:43 G 38019622.69 38019622.78 38019622.86 0.2644 0.1514 *

Mars 99382-05-01 20:09 G 38019711.26 38019711.34 38019711.42 0.1608 0.1139

Jupiter 99383-04-15 21:50 G 38020060.28 38020060.41 38020060.54 0.0511 0.0026

Pluto 99383-10-14 10:33 G 38020241.91 38020241.94 38020242.00 0.0084 0.0079

Pluto 99384-01-10 11:59 G 38020329.91 38020330.00 38020330.10 0.0084 0.0059

Mars 99384-04-05 21:21 G 38020416.28 38020416.39 38020416.50 0.1594 0.0577

Pluto 99384-04-07 13:11 G 38020417.94 38020418.05 38020418.18 0.0084 0.0040

Pluto 99384-07-04 14:23 G 38020505.98 38020506.10 38020506.24 0.0083 0.0021

Pluto 99384-09-30 15:50 G 38020594.02 38020594.16 38020594.30 0.0083 0.0001

Pluto 99384-12-27 17:02 G 38020682.08 38020682.21 38020682.34 0.0083 0.0018

Pluto 99385-03-25 18:14 G 38020770.14 38020770.26 38020770.38 0.0083 0.0037

Pluto 99385-06-21 19:11 G 38020858.22 38020858.30 38020858.41 0.0083 0.0057

Pluto 99385-09-17 20:23 G 38020946.31 38020946.35 38020946.42 0.0083 0.0076

Saturn 99388-12-14 02:38 G 38022129.49 38022129.61 38022129.74 0.0274 0.0210

Saturn 99389-03-13 02:09 G 38022218.40 38022218.59 38022218.78 0.0275 0.0012

Jupiter 99389-06-05 16:04 G 38022302.99 38022303.17 38022303.36 0.0514 0.0088

Saturn 99389-06-10 01:26 G 38022307.43 38022307.56 38022307.71 0.0276 0.0190

Mars 99390-11-24 08:23 G 38022839.69 38022839.85 38022840.00 0.1946 0.0768

Mars 99391-09-22 07:55 G 38023141.80 38023141.83 38023141.86 0.1611 0.1558

Mars 99393-08-27 09:07 G 38023846.76 38023846.88 38023846.99 0.1597 0.0167

Jupiter 99395-02-02 02:23 G 38024370.47 38024370.60 38024370.72 0.0512 0.0140

Earth 99395-02-04 23:45 G 38024373.38 38024373.49 38024373.60 0.2642 0.0079

Moon 99395-02-05 00:14 G 38024373.40 38024373.51 38024373.61 0.2648 0.0100 *

Jupiter 99395-05-02 05:45 G 38024459.71 38024459.74 38024459.77 0.0510 0.0491

Mars 99400-04-15 23:45 G 38026269.34 38026269.49 38026269.64 0.1940 0.0805

Jupiter 99401-03-25 12:28 G 38026612.88 38026613.02 38026613.17 0.0514 0.0325

Saturn 99402-01-29 02:09 G 38026922.54 38026922.59 38026922.66 0.0289 0.0250

Saturn 99402-04-27 13:40 G 38027010.95 38027011.07 38027011.19 0.0288 0.0096

Venus 99402-07-21 13:40 G 38027096.06 38027096.07 38027096.08 0.3640 0.3618

Saturn 99402-07-25 00:57 G 38027099.41 38027099.54 38027099.67 0.0287 0.0055

Saturn 99402-10-21 11:59 G 38027187.91 38027188.00 38027188.09 0.0286 0.0204

Mars 99403-01-18 20:38 G 38027277.25 38027277.36 38027277.48 0.1601 0.0260

Uranus 99403-02-27 13:55 G 38027316.99 38027317.08 38027317.18 0.0136 0.0119

Uranus 99403-05-26 21:35 G 38027405.26 38027405.40 38027405.55 0.0136 0.0092

Uranus 99403-08-23 05:31 G 38027493.56 38027493.73 38027493.90 0.0136 0.0063

Uranus 99403-11-19 13:11 G 38027581.86 38027582.05 38027582.24 0.0136 0.0035

Uranus 99404-02-15 20:52 G 38027670.18 38027670.37 38027670.57 0.0136 0.0008

Uranus 99404-05-14 04:33 G 38027758.50 38027758.69 38027758.89 0.0136 0.0021

Uranus 99404-08-10 12:14 G 38027846.83 38027847.01 38027847.20 0.0136 0.0048

Uranus 99404-11-06 19:55 G 38027935.17 38027935.33 38027935.50 0.0136 0.0076

Mars 99404-12-23 21:50 G 38027982.37 38027982.41 38027982.46 0.1589 0.1449

Uranus 99405-02-03 03:21 G 38028023.53 38028023.64 38028023.78 0.0136 0.0104

Uranus 99405-05-02 11:16 G 38028111.93 38028111.97 38028112.02 0.0136 0.0131

Jupiter 99406-11-22 06:57 G 38028680.69 38028680.79 38028680.89 0.0512 0.0301

Jupiter 99407-02-19 10:19 G 38028769.84 38028769.93 38028770.03 0.0510 0.0333

Venus 99408-02-04 04:33 G 38029119.61 38029119.69 38029119.78 0.3638 0.1783

Earth 99408-02-08 16:47 G 38029124.11 38029124.20 38029124.29 0.2641 0.1423

Moon 99408-02-08 17:31 G 38029124.14 38029124.23 38029124.31 0.2640 0.1572 *

Moon 99411-08-09 12:43 G 38030401.89 38030402.03 38030402.17 0.2696 0.1232

Earth 99411-08-09 13:11 G 38030401.90 38030402.05 38030402.19 0.2689 0.1106 *

Mars 99412-06-10 08:23 G 38030707.75 38030707.85 38030707.96 0.1604 0.0673

Jupiter 99413-04-11 23:45 G 38031013.39 38031013.49 38031013.59 0.0515 0.0432

Venus 99413-08-19 19:40 G 38031143.22 38031143.32 38031143.42 0.3636 0.0137

Mars 99414-05-16 09:35 G 38031412.81 38031412.90 38031412.99 0.1592 0.1038

Saturn 99418-05-04 01:40 G 38032861.53 38032861.57 38032861.63 0.0274 0.0263

Saturn 99418-08-01 01:11 G 38032950.36 38032950.55 38032950.74 0.0275 0.0065

Jupiter 99418-09-10 11:31 G 38032990.93 38032990.98 38032991.03 0.0513 0.0464

Saturn 99418-10-29 00:43 G 38033039.37 38033039.53 38033039.70 0.0276 0.0136

Jupiter 99418-12-08 15:07 G 38033080.01 38033080.13 38033080.25 0.0511 0.0173

Venus 99419-03-05 10:33 G 38033166.85 38033166.94 38033167.02 0.3633 0.1871

Mars 99421-10-31 20:09 G 38034138.26 38034138.34 38034138.43 0.1607 0.1090

Mars 99423-10-06 21:21 G 38034843.28 38034843.39 38034843.49 0.1595 0.0626

Earth 99424-08-11 22:19 G 38035153.40 38035153.43 38035153.46 0.2691 0.2632

Jupiter 99425-01-28 18:57 G 38035323.12 38035323.29 38035323.47 0.0515 0.0176

Moon 99428-02-04 11:31 G 38036424.88 38036424.98 38036425.08 0.2650 0.1155

Earth 99428-02-04 11:16 G 38036424.88 38036424.97 38036425.07 0.2643 0.1216 *

Mars 99430-05-26 09:21 G 38037266.74 38037266.89 38037267.04 0.1946 0.0894

Jupiter 99430-09-26 20:09 G 38037390.21 38037390.34 38037390.47 0.0511 0.0022

Neptune 99430-11-10 13:40 G 38037435.02 38037435.07 38037435.16 0.0090 0.0084

Neptune 99431-02-06 17:31 G 38037523.14 38037523.23 38037523.37 0.0090 0.0073

Mars 99431-03-24 07:55 G 38037568.79 38037568.83 38037568.86 0.1611 0.1514

Neptune 99431-05-05 21:21 G 38037611.27 38037611.39 38037611.55 0.0090 0.0062

Saturn 99431-06-18 05:02 G 38037654.70 38037654.71 38037654.72 0.0289 0.0288

Neptune 99431-08-02 01:26 G 38037699.41 38037699.56 38037699.73 0.0090 0.0051

Saturn 99431-09-14 16:19 G 38037743.07 38037743.18 38037743.30 0.0288 0.0135

Neptune 99431-10-29 05:16 G 38037787.55 38037787.72 38037787.90 0.0090 0.0040

Saturn 99431-12-12 03:50 G 38037831.53 38037831.66 38037831.79 0.0287 0.0019

Neptune 99432-01-25 09:07 G 38037875.70 38037875.88 38037876.07 0.0090 0.0029

Saturn 99432-03-09 14:52 G 38037920.02 38037920.12 38037920.23 0.0286 0.0166

Neptune 99432-04-22 12:57 G 38037963.85 38037964.04 38037964.24 0.0090 0.0018

Neptune 99432-07-19 16:47 G 38038052.01 38038052.20 38038052.40 0.0090 0.0007

Neptune 99432-10-15 20:38 G 38038140.17 38038140.36 38038140.56 0.0090 0.0005

Neptune 99433-01-12 00:28 G 38038228.33 38038228.52 38038228.72 0.0090 0.0015

Mars 99433-02-26 09:07 G 38038273.76 38038273.88 38038273.99 0.1597 0.0214

Neptune 99433-04-10 04:04 G 38038316.49 38038316.67 38038316.87 0.0090 0.0027

Neptune 99433-07-07 07:55 G 38038404.66 38038404.83 38038405.02 0.0090 0.0038

Neptune 99433-10-03 11:31 G 38038492.83 38038492.98 38038493.16 0.0090 0.0049

Neptune 99433-12-30 15:21 G 38038581.01 38038581.14 38038581.30 0.0090 0.0060

Neptune 99434-03-28 19:26 G 38038669.20 38038669.31 38038669.44 0.0090 0.0070

Neptune 99434-06-24 23:16 G 38038757.39 38038757.47 38038757.56 0.0090 0.0081

Jupiter 99436-11-16 13:11 G 38039632.87 38039633.05 38039633.24 0.0514 0.0099

Mars 99439-10-16 00:43 G 38040696.37 38040696.53 38040696.69 0.1940 0.0686

Earth 99441-02-06 04:19 G 38041175.58 38041175.68 38041175.79 0.2642 0.0266

Moon 99441-02-06 04:47 G 38041175.60 38041175.70 38041175.81 0.2646 0.0351 *

Jupiter 99442-07-16 01:11 G 38041700.42 38041700.55 38041700.67 0.0512 0.0133

Mars 99442-07-19 20:38 G 38041704.25 38041704.36 38041704.48 0.1600 0.0208

Jupiter 99442-10-13 04:33 G 38041789.67 38041789.69 38041789.71 0.0510 0.0498

Mars 99444-06-23 21:50 G 38042409.38 38042409.41 38042409.45 0.1589 0.1500

Uranus 99445-11-28 05:02 G 38042931.67 38042931.71 38042931.77 0.0142 0.0130

Uranus 99446-02-24 08:23 G 38043019.78 38043019.85 38043019.94 0.0142 0.0110

Uranus 99446-05-23 11:59 G 38043107.90 38043108.00 38043108.10 0.0142 0.0089

Uranus 99446-08-19 15:21 G 38043196.03 38043196.14 38043196.26 0.0142 0.0068

Uranus 99446-11-15 18:43 G 38043284.16 38043284.28 38043284.41 0.0142 0.0047

Uranus 99447-02-11 22:04 G 38043372.29 38043372.42 38043372.55 0.0142 0.0026

Uranus 99447-05-11 01:26 G 38043460.43 38043460.56 38043460.70 0.0142 0.0007

Uranus 99447-08-07 05:02 G 38043548.58 38043548.71 38043548.84 0.0142 0.0017

Uranus 99447-11-03 08:23 G 38043636.72 38043636.85 38043636.97 0.0142 0.0037

Saturn 99447-12-19 01:11 G 38043682.38 38043682.55 38043682.73 0.0274 0.0109

Uranus 99448-01-30 11:45 G 38043724.87 38043724.99 38043725.11 0.0142 0.0058

Saturn 99448-03-17 00:43 G 38043771.35 38043771.53 38043771.71 0.0275 0.0092

Uranus 99448-04-27 15:07 G 38043813.02 38043813.13 38043813.24 0.0142 0.0080

Uranus 99448-07-24 18:28 G 38043901.18 38043901.27 38043901.37 0.0142 0.0101

Jupiter 99448-09-04 09:07 G 38043942.74 38043942.88 38043943.02 0.0514 0.0345

Uranus 99448-10-20 21:50 G 38043989.35 38043989.41 38043989.48 0.0142 0.0122

Mars 99451-12-10 08:23 G 38045134.75 38045134.85 38045134.96 0.1604 0.0627

Mars 99453-11-14 09:35 G 38045839.81 38045839.90 38045839.98 0.1592 0.1087

Earth 99454-02-08 21:35 G 38045926.31 38045926.40 38045926.48 0.2641 0.1725

Moon 99454-02-08 22:04 G 38045926.35 38045926.42 38045926.50 0.2640 0.1811 *

Jupiter 99454-05-04 05:31 G 38046010.63 38046010.73 38046010.83 0.0512 0.0299

Jupiter 99454-08-01 08:52 G 38046099.78 38046099.87 38046099.97 0.0510 0.0335

Moon 99457-08-09 20:09 G 38047204.18 38047204.34 38047204.49 0.2696 0.0384

Earth 99457-08-09 20:09 G 38047204.18 38047204.34 38047204.50 0.2690 0.0402 *

Venus 99459-02-25 11:02 G 38047768.90 38047768.96 38047769.02 0.3640 0.2963

Jupiter 99460-09-21 20:52 G 38048343.27 38048343.37 38048343.48 0.0515 0.0423

Saturn 99461-01-31 18:57 G 38048475.19 38048475.29 38048475.39 0.0289 0.0178

Moon 99461-02-01 22:47 G 38048476.40 38048476.45 38048476.49 0.2650 0.2383

Earth 99461-02-01 23:02 G 38048476.41 38048476.46 38048476.50 0.2645 0.2376 *

Saturn 99461-04-30 06:14 G 38048563.63 38048563.76 38048563.89 0.0288 0.0027

Mars 99461-05-01 20:09 G 38048565.25 38048565.34 38048565.43 0.1607 0.1046

Saturn 99461-07-27 17:31 G 38048652.11 38048652.23 38048652.35 0.0286 0.0124

Saturn 99461-10-24 04:33 G 38048740.66 38048740.69 38048740.73 0.0285 0.0272

Mars 99463-04-06 21:21 G 38049270.28 38049270.39 38049270.49 0.1594 0.0674

Venus 99464-09-10 01:55 G 38049792.49 38049792.58 38049792.68 0.3637 0.1130

Jupiter 99466-02-20 10:04 G 38050320.87 38050320.92 38050320.97 0.0513 0.0462

Jupiter 99466-05-20 13:40 G 38050409.95 38050410.07 38050410.19 0.0511 0.0173

Mars 99469-11-24 10:04 G 38051693.77 38051693.92 38051694.06 0.1946 0.0995

Venus 99470-03-26 16:47 G 38051816.10 38051816.20 38051816.30 0.3635 0.0700

Mars 99470-09-22 07:55 G 38051995.78 38051995.83 38051995.87 0.1611 0.1468

Jupiter 99472-07-10 16:33 G 38052653.01 38052653.19 38052653.37 0.0515 0.0169

Mars 99472-08-27 08:52 G 38052700.76 38052700.87 38052700.99 0.1597 0.0261

Earth 99474-02-04 16:04 G 38053227.07 38053227.17 38053227.27 0.2643 0.0914

Moon 99474-02-04 16:19 G 38053227.08 38053227.18 38053227.28 0.2650 0.0933 *

Venus 99475-10-10 07:40 G 38053839.75 38053839.82 38053839.89 0.3633 0.2496

Saturn 99477-05-07 00:43 G 38054414.38 38054414.53 38054414.69 0.0275 0.0158

Saturn 99477-08-04 00:14 G 38054503.32 38054503.51 38054503.70 0.0276 0.0042

Saturn 99477-10-31 23:45 G 38054592.41 38054592.49 38054592.58 0.0277 0.0244

Jupiter 99478-03-08 18:14 G 38054720.13 38054720.26 38054720.39 0.0512 0.0011

Mars 99479-04-16 01:26 G 38055123.40 38055123.56 38055123.73 0.1941 0.0572

Mars 99482-01-17 20:38 G 38056131.25 38056131.36 38056131.48 0.1600 0.0162

Mars 99483-12-23 21:50 G 38056836.39 38056836.41 38056836.43 0.1589 0.1548

Jupiter 99484-04-28 11:45 G 38056962.81 38056962.99 38056963.18 0.0514 0.0088

Earth 99487-02-07 09:07 G 38057977.77 38057977.88 38057977.99 0.2642 0.0552

Moon 99487-02-07 09:50 G 38057977.80 38057977.91 38057978.01 0.2644 0.0689 *

Uranus 99487-03-19 20:23 G 38058018.25 38058018.35 38058018.46 0.0136 0.0115

Uranus 99487-06-16 04:04 G 38058106.53 38058106.67 38058106.83 0.0136 0.0087

Uranus 99487-09-12 11:59 G 38058194.83 38058195.00 38058195.18 0.0136 0.0058

Uranus 99487-12-09 19:40 G 38058283.13 38058283.32 38058283.52 0.0136 0.0031

Uranus 99488-03-07 03:21 G 38058371.45 38058371.64 38058371.84 0.0136 0.0005

Uranus 99488-06-03 11:16 G 38058459.77 38058459.97 38058460.16 0.0136 0.0025

Uranus 99488-08-30 18:43 G 38058548.11 38058548.28 38058548.47 0.0136 0.0053

Uranus 99488-11-27 02:23 G 38058636.45 38058636.60 38058636.76 0.0136 0.0081

Uranus 99489-02-23 09:50 G 38058724.81 38058724.91 38058725.04 0.0136 0.0109

Venus 99489-08-13 04:33 G 38058895.54 38058895.69 38058895.83 0.3737 0.1730

Jupiter 99489-12-25 23:16 G 38059030.35 38059030.47 38059030.59 0.0512 0.0143

Jupiter 99490-03-25 02:38 G 38059119.58 38059119.61 38059119.65 0.0510 0.0489

Saturn 99490-06-20 22:04 G 38059207.34 38059207.42 38059207.51 0.0289 0.0212

Saturn 99490-09-17 09:21 G 38059295.77 38059295.89 38059296.02 0.0287 0.0061

Saturn 99490-12-14 20:38 G 38059384.24 38059384.36 38059384.48 0.0286 0.0090

Saturn 99491-03-13 07:40 G 38059472.76 38059472.82 38059472.90 0.0285 0.0238

Mars 99491-06-10 08:23 G 38059561.74 38059561.85 38059561.96 0.1604 0.0577

Mars 99493-05-15 09:35 G 38060266.82 38060266.90 38060266.98 0.1592 0.1137

Jupiter 99496-02-15 05:59 G 38061272.62 38061272.75 38061272.88 0.0513 0.0361

Earth 99500-02-10 02:09 G 38062728.53 38062728.59 38062728.66 0.2641 0.2025

Moon 99500-02-10 02:52 G 38062728.56 38062728.62 38062728.68 0.2639 0.2146 *

Mars 99500-10-31 20:09 G 38062992.25 38062992.34 38062992.43 0.1607 0.1001

Jupiter 99501-10-15 04:04 G 38063340.57 38063340.67 38063340.77 0.0513 0.0298

Jupiter 99502-01-12 07:40 G 38063429.73 38063429.82 38063429.91 0.0511 0.0336

Mars 99502-10-06 21:07 G 38063697.28 38063697.38 38063697.49 0.1594 0.0723

Earth 99503-08-12 02:52 G 38064006.46 38064006.62 38064006.78 0.2690 0.0302

Moon 99503-08-12 03:21 G 38064006.48 38064006.64 38064006.79 0.2697 0.0375 *

Saturn 99506-09-25 01:11 G 38065146.42 38065146.55 38065146.69 0.0274 0.0198

Saturn 99506-12-23 00:43 G 38065235.34 38065235.53 38065235.73 0.0275 0.0004

Moon 99507-02-04 03:35 G 38065278.59 38065278.65 38065278.71 0.2651 0.2166

Earth 99507-02-04 03:50 G 38065278.59 38065278.66 38065278.72 0.2644 0.2079 *

Saturn 99507-03-22 00:14 G 38065324.39 38065324.51 38065324.65 0.0276 0.0203

Jupiter 99508-03-04 17:02 G 38065673.10 38065673.21 38065673.33 0.0515 0.0395

Mars 99509-05-26 11:02 G 38066120.82 38066120.96 38066121.09 0.1946 0.1122

Mars 99510-03-24 07:40 G 38066422.77 38066422.82 38066422.88 0.1611 0.1425

Neptune 99511-08-31 14:09 G 38066948.05 38066948.09 38066948.15 0.0088 0.0081

Neptune 99511-11-27 15:35 G 38067036.08 38067036.15 38067036.22 0.0088 0.0074

Neptune 99512-02-23 16:47 G 38067124.12 38067124.20 38067124.29 0.0088 0.0067

Mars 99512-02-27 08:52 G 38067127.76 38067127.87 38067127.99 0.1597 0.0304

Neptune 99512-05-21 17:45 G 38067212.16 38067212.24 38067212.35 0.0088 0.0061

Neptune 99512-08-17 19:11 G 38067300.20 38067300.30 38067300.41 0.0088 0.0054

Neptune 99512-11-13 20:23 G 38067388.25 38067388.35 38067388.47 0.0088 0.0047

Neptune 99513-02-09 21:35 G 38067476.29 38067476.40 38067476.53 0.0088 0.0040

Neptune 99513-05-08 23:02 G 38067564.34 38067564.46 38067564.59 0.0088 0.0033

Jupiter 99513-08-03 08:23 G 38067650.80 38067650.85 38067650.90 0.0513 0.0466

Neptune 99513-08-05 00:14 G 38067652.39 38067652.51 38067652.64 0.0088 0.0026

Jupiter 99513-10-31 11:59 G 38067739.88 38067740.00 38067740.12 0.0511 0.0170

Neptune 99513-11-01 01:40 G 38067740.44 38067740.57 38067740.70 0.0088 0.0019

Neptune 99514-01-28 02:52 G 38067828.49 38067828.62 38067828.75 0.0088 0.0012

Neptune 99514-04-26 04:04 G 38067916.54 38067916.67 38067916.80 0.0088 0.0005

Neptune 99514-07-23 05:16 G 38068004.59 38068004.72 38068004.85 0.0088 0.0002

Neptune 99514-10-19 06:28 G 38068092.64 38068092.77 38068092.91 0.0088 0.0009

Neptune 99515-01-15 07:40 G 38068180.70 38068180.82 38068180.96 0.0088 0.0016

Neptune 99515-04-13 08:52 G 38068268.75 38068268.87 38068269.01 0.0088 0.0023

Neptune 99515-07-10 10:19 G 38068356.81 38068356.93 38068357.05 0.0088 0.0030

Venus 99515-10-03 08:09 G 38068441.77 38068441.84 38068441.92 0.3639 0.2324

Neptune 99515-10-06 11:16 G 38068444.86 38068444.97 38068445.10 0.0088 0.0037

Neptune 99516-01-02 12:28 G 38068532.92 38068533.02 38068533.15 0.0088 0.0044

Neptune 99516-03-30 13:55 G 38068620.98 38068621.08 38068621.19 0.0088 0.0050

Neptune 99516-06-26 15:21 G 38068709.04 38068709.14 38068709.24 0.0088 0.0057

Neptune 99516-09-22 16:33 G 38068797.10 38068797.19 38068797.28 0.0088 0.0064

Neptune 99516-12-19 17:45 G 38068885.17 38068885.24 38068885.32 0.0088 0.0071

Neptune 99517-03-17 18:57 G 38068973.24 38068973.29 38068973.35 0.0088 0.0078

Neptune 99517-06-13 20:09 G 38069061.32 38069061.34 38069061.38 0.0088 0.0085

Mars 99518-10-16 02:38 G 38069550.45 38069550.61 38069550.77 0.1941 0.0445

Saturn 99519-11-09 00:57 G 38069939.48 38069939.54 38069939.61 0.0289 0.0252

Jupiter 99519-12-22 13:26 G 38069982.88 38069983.06 38069983.24 0.0515 0.0153

Saturn 99520-02-05 12:28 G 38070027.90 38070028.02 38070028.14 0.0288 0.0098

Earth 99520-02-06 20:52 G 38070029.26 38070029.37 38070029.47 0.2643 0.0619

Moon 99520-02-06 21:07 G 38070029.27 38070029.38 38070029.48 0.2649 0.0526 *

Saturn 99520-05-03 23:31 G 38070116.36 38070116.48 38070116.61 0.0287 0.0054

Saturn 99520-07-31 10:47 G 38070204.86 38070204.95 38070205.04 0.0286 0.0202

Venus 99521-04-17 23:16 G 38070465.37 38070465.47 38070465.57 0.3637 0.0491

Mars 99521-07-19 20:38 G 38070558.24 38070558.36 38070558.48 0.1600 0.0113

Jupiter 99525-08-19 16:33 G 38072050.07 38072050.19 38072050.32 0.0511 0.0013

Venus 99526-11-01 14:09 G 38072488.99 38072489.09 38072489.18 0.3635 0.1326

Uranus 99529-12-19 11:59 G 38073632.96 38073633.00 38073633.07 0.0141 0.0127

Uranus 99530-03-17 15:35 G 38073721.07 38073721.15 38073721.24 0.0142 0.0106

Uranus 99530-06-13 18:57 G 38073809.19 38073809.29 38073809.40 0.0142 0.0085

Uranus 99530-09-09 22:19 G 38073897.32 38073897.43 38073897.55 0.0142 0.0064

Uranus 99530-12-07 01:40 G 38073985.45 38073985.57 38073985.70 0.0142 0.0044

Mars 99530-12-10 08:23 G 38073988.74 38073988.85 38073988.96 0.1604 0.0532

Uranus 99531-03-05 05:02 G 38074073.59 38074073.71 38074073.85 0.0142 0.0023

Uranus 99531-06-01 08:38 G 38074161.73 38074161.86 38074161.99 0.0142 0.0003

Uranus 99531-08-28 11:59 G 38074249.87 38074250.00 38074250.13 0.0142 0.0020

Jupiter 99531-10-10 08:52 G 38074292.69 38074292.87 38074293.06 0.0514 0.0099

Uranus 99531-11-24 15:21 G 38074338.02 38074338.14 38074338.27 0.0142 0.0041

Uranus 99532-02-20 18:43 G 38074426.17 38074426.28 38074426.40 0.0142 0.0062

Venus 99532-05-17 05:02 G 38074512.66 38074512.71 38074512.76 0.3633 0.3130

Uranus 99532-05-18 22:04 G 38074514.32 38074514.42 38074514.53 0.0142 0.0083

Uranus 99532-08-15 01:26 G 38074602.48 38074602.56 38074602.65 0.0142 0.0104

Uranus 99532-11-11 04:47 G 38074690.65 38074690.70 38074690.77 0.0142 0.0126

Mars 99532-11-14 09:21 G 38074693.82 38074693.89 38074693.97 0.1592 0.1185

Earth 99533-02-08 13:55 G 38074779.98 38074780.08 38074780.18 0.2642 0.0854

Moon 99533-02-08 14:38 G 38074780.00 38074780.11 38074780.21 0.2643 0.0920 *

Saturn 99536-02-12 00:57 G 38075878.47 38075878.54 38075878.63 0.0274 0.0245

Saturn 99536-05-11 00:43 G 38075967.34 38075967.53 38075967.72 0.0275 0.0046

Saturn 99536-08-08 00:14 G 38076056.35 38076056.51 38076056.67 0.0276 0.0156

Pluto 99536-11-12 03:50 G 38076152.63 38076152.66 38076152.72 0.0060 0.0058

Pluto 99537-02-08 05:02 G 38076240.62 38076240.71 38076240.84 0.0060 0.0049

Pluto 99537-05-07 06:14 G 38076328.63 38076328.76 38076328.93 0.0060 0.0039

Jupiter 99537-06-07 21:07 G 38076360.26 38076360.38 38076360.50 0.0512 0.0157

Pluto 99537-08-03 07:26 G 38076416.67 38076416.81 38076417.00 0.0060 0.0029

Jupiter 99537-09-05 00:28 G 38076449.48 38076449.52 38076449.57 0.0510 0.0475

Pluto 99537-10-30 09:07 G 38076504.70 38076504.88 38076505.07 0.0060 0.0018

Pluto 99538-01-26 10:19 G 38076592.75 38076592.93 38076593.12 0.0061 0.0008

Pluto 99538-04-24 11:45 G 38076680.80 38076680.99 38076681.18 0.0061 0.0003

Pluto 99538-07-21 12:43 G 38076768.85 38076769.03 38076769.22 0.0061 0.0013

Pluto 99538-10-17 14:09 G 38076856.92 38076857.09 38076857.27 0.0061 0.0023

Pluto 99539-01-13 14:52 G 38076944.99 38076945.12 38076945.30 0.0061 0.0034

Pluto 99539-04-11 16:19 G 38077033.07 38077033.18 38077033.33 0.0061 0.0044

Pluto 99539-07-08 17:31 G 38077121.16 38077121.23 38077121.33 0.0061 0.0054

Mars 99540-05-01 20:09 G 38077419.25 38077419.34 38077419.43 0.1607 0.0952

Mars 99542-04-06 21:07 G 38078124.28 38078124.38 38078124.49 0.1594 0.0771

Jupiter 99543-07-29 04:04 G 38078602.54 38078602.67 38078602.81 0.0513 0.0355

Earth 99546-02-11 06:57 G 38079530.74 38079530.79 38079530.84 0.2641 0.2326

Moon 99546-02-11 07:40 G 38079530.78 38079530.82 38079530.86 0.2638 0.2427 *

Venus 99546-03-21 07:55 G 38079568.67 38079568.83 38079568.99 0.3738 0.0884

Mars 99548-11-24 12:14 G 38080547.88 38080548.01 38080548.13 0.1947 0.1259

Jupiter 99549-03-27 01:55 G 38080670.48 38080670.58 38080670.68 0.0513 0.0313

Saturn 99549-03-28 04:19 G 38080671.66 38080671.68 38080671.71 0.0289 0.0282

Jupiter 99549-06-24 05:31 G 38080759.63 38080759.73 38080759.83 0.0511 0.0322

Saturn 99549-06-24 15:50 G 38080760.04 38080760.16 38080760.27 0.0288 0.0129

Earth 99549-08-12 10:04 G 38080808.77 38080808.92 38080809.07 0.2690 0.1018

Moon 99549-08-12 10:19 G 38080808.79 38080808.93 38080809.08 0.2697 0.1040 *

Saturn 99549-09-21 03:07 G 38080848.50 38080848.63 38080848.76 0.0287 0.0023

Mars 99549-09-22 07:40 G 38080849.77 38080849.82 38080849.88 0.1611 0.1378

Saturn 99549-12-18 14:09 G 38080936.99 38080937.09 38080937.20 0.0285 0.0171

Mars 99551-08-28 08:52 G 38081554.76 38081554.87 38081554.99 0.1597 0.0355

Moon 99553-02-04 08:23 G 38082080.77 38082080.85 38082080.93 0.2651 0.1746

Earth 99553-02-04 08:23 G 38082080.78 38082080.85 38082080.93 0.2644 0.1784 *

Jupiter 99555-08-15 13:40 G 38083002.94 38083003.07 38083003.20 0.0515 0.0374

Mars 99558-04-16 03:21 G 38083977.47 38083977.64 38083977.80 0.1941 0.0335

Jupiter 99561-01-13 06:43 G 38084980.74 38084980.78 38084980.83 0.0513 0.0470

Mars 99561-01-17 20:38 G 38084985.24 38084985.36 38084985.47 0.1600 0.0078

Jupiter 99561-04-12 10:33 G 38085069.82 38085069.94 38085070.05 0.0511 0.0169

Saturn 99565-09-28 01:11 G 38086699.37 38086699.55 38086699.74 0.0275 0.0085

Saturn 99565-12-26 00:43 G 38086788.36 38086788.53 38086788.71 0.0276 0.0117

Earth 99566-02-07 01:26 G 38086831.46 38086831.56 38086831.67 0.2643 0.0324

Moon 99566-02-07 01:55 G 38086831.47 38086831.58 38086831.69 0.2648 0.0314 *

Venus 99566-10-24 14:38 G 38087091.08 38087091.11 38087091.13 0.3641 0.3514

Jupiter 99567-06-03 09:21 G 38087312.71 38087312.89 38087313.07 0.0514 0.0123

Mars 99567-09-05 18:43 G 38087407.26 38087407.28 38087407.31 0.1935 0.1898

Mars 99570-06-10 08:23 G 38088415.74 38088415.85 38088415.96 0.1603 0.0487

Uranus 99571-04-10 02:23 G 38088719.50 38088719.60 38088719.73 0.0136 0.0111

Uranus 99571-07-07 10:04 G 38088807.78 38088807.92 38088808.09 0.0136 0.0084

Uranus 99571-10-03 17:59 G 38088896.08 38088896.25 38088896.44 0.0136 0.0055

Uranus 99571-12-31 01:40 G 38088984.39 38088984.57 38088984.77 0.0136 0.0028

Uranus 99572-03-28 09:35 G 38089072.70 38089072.90 38089073.10 0.0136 0.0001

Venus 99572-05-09 05:31 G 38089114.64 38089114.73 38089114.82 0.3638 0.1672

Mars 99572-05-15 09:21 G 38089120.82 38089120.89 38089120.96 0.1591 0.1231

Uranus 99572-06-24 17:02 G 38089161.03 38089161.21 38089161.41 0.0136 0.0030

Uranus 99572-09-21 00:57 G 38089249.36 38089249.54 38089249.72 0.0136 0.0057

Uranus 99572-12-18 08:38 G 38089337.71 38089337.86 38089338.01 0.0136 0.0084

Jupiter 99573-01-29 14:52 G 38089379.99 38089380.12 38089380.24 0.0511 0.0013

Uranus 99573-03-16 16:04 G 38089426.07 38089426.17 38089426.29 0.0136 0.0112

Venus 99577-11-22 20:23 G 38091138.25 38091138.35 38091138.45 0.3636 0.0180

Saturn 99578-11-11 18:57 G 38091492.18 38091492.29 38091492.39 0.0289 0.0165

Saturn 99579-02-08 06:14 G 38091580.63 38091580.76 38091580.89 0.0287 0.0014

Earth 99579-02-09 18:28 G 38091582.18 38091582.27 38091582.37 0.2642 0.1159

Moon 99579-02-09 19:11 G 38091582.21 38091582.30 38091582.40 0.2643 0.1325 *

Jupiter 99579-03-22 05:31 G 38091622.55 38091622.73 38091622.91 0.0514 0.0119

Saturn 99579-05-07 17:16 G 38091669.11 38091669.22 38091669.34 0.0286 0.0137

Saturn 99579-08-04 04:33 G 38091757.68 38091757.69 38091757.70 0.0285 0.0284

Mars 99579-10-31 19:55 G 38091846.24 38091846.33 38091846.43 0.1607 0.0910

Mars 99581-10-05 21:07 G 38092551.28 38092551.38 38092551.48 0.1594 0.0818

Moon 99582-08-10 07:11 G 38092859.71 38092859.80 38092859.89 0.2695 0.2208

Earth 99582-08-10 07:26 G 38092859.71 38092859.81 38092859.92 0.2689 0.2039 *

Venus 99583-06-08 11:16 G 38093161.89 38093161.97 38093162.06 0.3634 0.1962

Jupiter 99584-11-17 19:26 G 38093690.19 38093690.31 38093690.43 0.0512 0.0162

Jupiter 99585-02-14 22:47 G 38093779.41 38093779.45 38093779.50 0.0510 0.0468

Mars 99588-05-25 12:28 G 38094974.91 38094975.02 38094975.14 0.1947 0.1350

Mars 99589-03-23 07:40 G 38095276.76 38095276.82 38095276.89 0.1611 0.1332

Jupiter 99591-01-08 01:11 G 38095932.42 38095932.55 38095932.68 0.0513 0.0368

Mars 99591-02-26 08:52 G 38095981.76 38095981.87 38095981.98 0.1597 0.0401

Earth 99592-02-12 11:45 G 38096332.98 38096332.99 38096333.00 0.2641 0.2629

Saturn 99595-02-15 01:11 G 38097431.38 38097431.55 38097431.71 0.0275 0.0132

Neptune 99595-05-12 08:38 G 38097517.86 38097517.86 38097517.91 0.0090 0.0089

Saturn 99595-05-15 00:43 G 38097520.34 38097520.53 38097520.71 0.0276 0.0069

Neptune 99595-08-08 12:43 G 38097605.95 38097606.03 38097606.14 0.0090 0.0078

Saturn 99595-08-12 00:14 G 38097609.48 38097609.51 38097609.55 0.0277 0.0272

Earth 99595-08-13 17:02 G 38097611.08 38097611.21 38097611.33 0.2690 0.1723

Moon 99595-08-13 17:31 G 38097611.12 38097611.23 38097611.34 0.2697 0.1882 *

Neptune 99595-11-04 16:33 G 38097694.07 38097694.19 38097694.33 0.0090 0.0067

Neptune 99596-01-31 20:23 G 38097782.21 38097782.35 38097782.51 0.0090 0.0056

Neptune 99596-04-29 00:14 G 38097870.35 38097870.51 38097870.69 0.0090 0.0045

Neptune 99596-07-26 04:04 G 38097958.50 38097958.67 38097958.86 0.0090 0.0034

Jupiter 99596-09-05 23:45 G 38098000.40 38098000.49 38098000.59 0.0513 0.0329

Neptune 99596-10-22 08:09 G 38098046.65 38098046.84 38098047.03 0.0090 0.0023

Jupiter 99596-12-04 03:21 G 38098089.54 38098089.64 38098089.74 0.0511 0.0306

Neptune 99597-01-18 11:59 G 38098134.80 38098135.00 38098135.19 0.0090 0.0012

Neptune 99597-04-16 15:50 G 38098222.96 38098223.16 38098223.35 0.0090 0.0002

Neptune 99597-07-13 19:26 G 38098311.12 38098311.31 38098311.51 0.0090 0.0010

Neptune 99597-10-09 23:16 G 38098399.28 38098399.47 38098399.67 0.0090 0.0021

Mars 99597-10-15 04:19 G 38098404.52 38098404.68 38098404.85 0.1942 0.0209

Neptune 99598-01-06 03:07 G 38098487.45 38098487.63 38098487.82 0.0090 0.0032

Neptune 99598-04-04 06:57 G 38098575.62 38098575.79 38098575.96 0.0090 0.0043

Neptune 99598-07-01 10:33 G 38098663.79 38098663.94 38098664.11 0.0090 0.0054

Neptune 99598-09-27 14:23 G 38098751.97 38098752.10 38098752.24 0.0090 0.0065

Neptune 99598-12-24 17:59 G 38098840.16 38098840.25 38098840.37 0.0090 0.0076

Moon 99599-02-05 13:11 G 38098882.96 38098883.05 38098883.14 0.2651 0.1535

Earth 99599-02-05 13:11 G 38098882.96 38098883.05 38098883.14 0.2644 0.1481 *

Neptune 99599-03-22 21:50 G 38098928.38 38098928.41 38098928.47 0.0090 0.0087

Mars 99600-07-18 20:38 G 38099412.24 38099412.36 38099412.47 0.1600 0.0033

Venus 99602-10-26 11:16 G 38100241.92 38100241.97 38100242.03 0.3739 0.3500

Jupiter 99603-01-25 11:45 G 38100332.86 38100332.99 38100333.12 0.0515 0.0378

Mars 99607-03-06 19:40 G 38101834.26 38101834.32 38101834.39 0.1935 0.1781

Saturn 99608-03-30 22:19 G 38102224.34 38102224.43 38102224.53 0.0288 0.0195

Jupiter 99608-06-25 04:33 G 38102310.66 38102310.69 38102310.73 0.0513 0.0487

Saturn 99608-06-27 09:35 G 38102312.78 38102312.90 38102313.03 0.0287 0.0044

Jupiter 99608-09-22 08:23 G 38102399.73 38102399.85 38102399.97 0.0511 0.0152

Saturn 99608-09-23 20:52 G 38102401.25 38102401.37 38102401.49 0.0286 0.0107

Saturn 99608-12-21 07:55 G 38102489.78 38102489.83 38102489.89 0.0285 0.0255

Mars 99609-12-09 08:23 G 38102842.73 38102842.85 38102842.96 0.1603 0.0440

Mars 99611-11-14 09:21 G 38103547.83 38103547.89 38103547.96 0.1591 0.1284

Earth 99612-02-08 06:14 G 38103633.65 38103633.76 38103633.87 0.2643 0.0019

Moon 99612-02-08 06:43 G 38103633.67 38103633.78 38103633.89 0.2647 0.0122 *

Uranus 99614-01-08 19:26 G 38104334.25 38104334.31 38104334.38 0.0142 0.0122

Uranus 99614-04-06 22:47 G 38104422.36 38104422.45 38104422.55 0.0142 0.0101

Uranus 99614-07-04 02:23 G 38104510.49 38104510.60 38104510.70 0.0142 0.0080

Uranus 99614-09-30 05:31 G 38104598.62 38104598.73 38104598.86 0.0142 0.0060

Jupiter 99614-11-13 05:59 G 38104642.57 38104642.75 38104642.93 0.0514 0.0105

Uranus 99614-12-27 09:07 G 38104686.75 38104686.88 38104687.00 0.0142 0.0038

Uranus 99615-03-25 12:28 G 38104774.89 38104775.02 38104775.15 0.0142 0.0017

Uranus 99615-06-21 15:50 G 38104863.03 38104863.16 38104863.29 0.0142 0.0004

Uranus 99615-09-17 19:11 G 38104951.17 38104951.30 38104951.43 0.0142 0.0025

Uranus 99615-12-14 22:33 G 38105039.32 38105039.44 38105039.57 0.0142 0.0046

Uranus 99616-03-12 01:55 G 38105127.47 38105127.58 38105127.70 0.0142 0.0067

Uranus 99616-06-08 05:16 G 38105215.63 38105215.72 38105215.83 0.0142 0.0089

Uranus 99616-09-04 08:52 G 38105303.79 38105303.87 38105303.95 0.0142 0.0109

Uranus 99616-12-01 12:14 G 38105391.96 38105392.01 38105392.06 0.0142 0.0130

Mars 99619-05-01 19:55 G 38106273.23 38106273.33 38106273.43 0.1607 0.0863

Jupiter 99620-07-11 13:11 G 38106709.92 38106710.05 38106710.18 0.0512 0.0007

Mars 99621-04-05 21:07 G 38106978.28 38106978.38 38106978.48 0.1594 0.0866

Venus 99623-05-31 11:59 G 38107763.93 38107764.00 38107764.06 0.3640 0.2865

Saturn 99624-07-04 01:26 G 38108163.42 38108163.56 38108163.72 0.0274 0.0173

Saturn 99624-10-01 01:11 G 38108252.36 38108252.55 38108252.74 0.0276 0.0028

Saturn 99624-12-29 00:57 G 38108341.43 38108341.54 38108341.64 0.0277 0.0231

Earth 99625-02-09 23:16 G 38108384.38 38108384.47 38108384.56 0.2642 0.1457

Moon 99625-02-09 23:59 G 38108384.41 38108384.50 38108384.59 0.2642 0.1506 *

Jupiter 99626-09-01 01:26 G 38108952.39 38108952.56 38108952.75 0.0514 0.0147

Mars 99627-11-24 13:40 G 38109401.97 38109402.07 38109402.18 0.1947 0.1492

Moon 99628-08-10 14:23 G 38109661.96 38109662.10 38109662.24 0.2696 0.1233

Earth 99628-08-10 14:38 G 38109661.97 38109662.11 38109662.25 0.2689 0.1330 *

Mars 99628-09-21 07:40 G 38109703.75 38109703.82 38109703.89 0.1611 0.1286

Venus 99628-12-14 02:52 G 38109787.52 38109787.62 38109787.72 0.3638 0.1029

Mars 99630-08-27 08:52 G 38110408.75 38110408.87 38110408.98 0.1597 0.0449

Pluto 99631-02-20 21:35 G 38110586.35 38110586.40 38110586.47 0.0084 0.0074

Pluto 99631-05-19 23:02 G 38110674.36 38110674.46 38110674.56 0.0084 0.0054

Pluto 99631-08-16 00:14 G 38110762.39 38110762.51 38110762.64 0.0084 0.0035

Pluto 99631-11-12 01:26 G 38110850.43 38110850.56 38110850.70 0.0083 0.0016

Pluto 99632-02-08 02:52 G 38110938.48 38110938.62 38110938.75 0.0083 0.0004

Jupiter 99632-04-29 17:31 G 38111020.11 38111020.23 38111020.35 0.0512 0.0171

Pluto 99632-05-06 03:50 G 38111026.54 38111026.66 38111026.80 0.0083 0.0024

Jupiter 99632-07-27 20:52 G 38111109.32 38111109.37 38111109.43 0.0510 0.0460

Pluto 99632-08-02 05:16 G 38111114.60 38111114.72 38111114.84 0.0083 0.0042

Pluto 99632-10-29 06:28 G 38111202.68 38111202.77 38111202.86 0.0083 0.0061

Pluto 99633-01-25 07:40 G 38111290.79 38111290.82 38111290.85 0.0083 0.0080

Venus 99634-06-29 17:45 G 38111811.14 38111811.24 38111811.34 0.3635 0.0790

Mars 99637-04-15 05:16 G 38112831.55 38112831.72 38112831.89 0.1941 0.0093

Saturn 99637-08-18 01:40 G 38112956.50 38112956.57 38112956.65 0.0289 0.0229

Saturn 99637-11-14 12:57 G 38113044.92 38113045.04 38113045.17 0.0288 0.0077

Saturn 99638-02-11 00:14 G 38113133.39 38113133.51 38113133.64 0.0287 0.0075

Saturn 99638-05-10 11:16 G 38113221.90 38113221.97 38113222.06 0.0285 0.0223

Jupiter 99638-06-19 21:35 G 38113262.28 38113262.40 38113262.52 0.0513 0.0389

Venus 99640-01-13 08:38 G 38113834.79 38113834.86 38113834.93 0.3633 0.2595

Mars 99640-01-17 20:23 G 38113839.24 38113839.35 38113839.47 0.1600 0.0064

Earth 99641-08-13 23:59 G 38114413.43 38114413.50 38114413.56 0.2691 0.2425

Moon 99641-08-14 00:43 G 38114413.47 38114413.53 38114413.60 0.2696 0.2469 *

Jupiter 99644-02-16 22:04 G 38115330.33 38115330.42 38115330.52 0.0513 0.0333

Jupiter 99644-05-16 01:40 G 38115419.47 38115419.57 38115419.67 0.0510 0.0300

Moon 99645-02-05 17:59 G 38115685.15 38115685.25 38115685.35 0.2650 0.1151

Earth 99645-02-05 17:59 G 38115685.15 38115685.25 38115685.34 0.2644 0.1188 *

Mars 99646-09-04 20:23 G 38116261.27 38116261.35 38116261.43 0.1936 0.1680

Mars 99649-06-09 08:09 G 38117269.73 38117269.84 38117269.96 0.1603 0.0396

Jupiter 99650-07-07 08:38 G 38117662.74 38117662.86 38117663.00 0.0515 0.0366

Mars 99651-05-15 09:21 G 38117974.83 38117974.89 38117974.95 0.1591 0.1331

Venus 99653-11-16 00:28 G 38118890.39 38118890.52 38118890.65 0.3736 0.2266

Saturn 99653-11-21 01:11 G 38118895.44 38118895.55 38118895.66 0.0274 0.0221

Saturn 99654-02-18 00:43 G 38118984.34 38118984.53 38118984.72 0.0275 0.0022

Saturn 99654-05-18 00:14 G 38119073.37 38119073.51 38119073.66 0.0277 0.0181

Uranus 99655-02-01 00:57 G 38119332.53 38119332.54 38119332.59 0.0136 0.0135

Uranus 99655-04-30 08:52 G 38119420.76 38119420.87 38119421.00 0.0136 0.0107

Uranus 99655-07-27 16:47 G 38119509.05 38119509.20 38119509.36 0.0136 0.0078

Uranus 99655-10-24 00:28 G 38119597.34 38119597.52 38119597.71 0.0136 0.0050

Jupiter 99655-12-06 02:23 G 38119640.58 38119640.60 38119640.63 0.0513 0.0501

Uranus 99656-01-20 08:23 G 38119685.65 38119685.85 38119686.04 0.0136 0.0022

Jupiter 99656-03-04 06:14 G 38119729.64 38119729.76 38119729.88 0.0511 0.0137

Uranus 99656-04-17 16:04 G 38119773.97 38119774.17 38119774.37 0.0136 0.0006

Uranus 99656-07-14 23:45 G 38119862.30 38119862.49 38119862.68 0.0136 0.0033

Uranus 99656-10-11 07:11 G 38119950.63 38119950.80 38119950.98 0.0136 0.0061

Uranus 99657-01-07 14:52 G 38120038.98 38120039.12 38120039.28 0.0136 0.0089

Uranus 99657-04-05 22:19 G 38120127.35 38120127.43 38120127.55 0.0136 0.0117

Earth 99658-02-08 11:02 G 38120435.85 38120435.96 38120436.06 0.2643 0.0291

Moon 99658-02-08 11:31 G 38120435.88 38120435.98 38120436.09 0.2646 0.0340 *

Mars 99658-10-30 19:55 G 38120700.23 38120700.33 38120700.43 0.1607 0.0813

Mars 99660-10-04 21:07 G 38121405.28 38121405.38 38121405.48 0.1594 0.0916

Jupiter 99662-04-25 04:04 G 38121972.49 38121972.67 38121972.85 0.0514 0.0108

Saturn 99667-01-05 05:02 G 38123688.66 38123688.71 38123688.76 0.0289 0.0261

Saturn 99667-04-03 16:19 G 38123777.06 38123777.18 38123777.30 0.0288 0.0108

Mars 99667-05-25 14:52 G 38123829.03 38123829.12 38123829.21 0.1947 0.1617

Saturn 99667-07-01 03:35 G 38123865.52 38123865.65 38123865.78 0.0286 0.0043

Saturn 99667-09-27 14:38 G 38123954.02 38123954.11 38123954.21 0.0285 0.0191

Jupiter 99667-12-22 11:02 G 38124039.83 38124039.96 38124040.08 0.0512 0.0021

Mars 99668-03-22 07:40 G 38124130.74 38124130.82 38124130.89 0.1611 0.1241

Mars 99670-02-25 08:52 G 38124835.76 38124835.87 38124835.98 0.1597 0.0501

Earth 99671-02-11 04:04 G 38125186.59 38125186.67 38125186.75 0.2641 0.1756

Moon 99671-02-11 04:47 G 38125186.62 38125186.70 38125186.77 0.2640 0.1919 *

Jupiter 99674-02-10 22:33 G 38126282.26 38126282.44 38126282.62 0.0513 0.0159

Moon 99674-08-11 21:35 G 38126464.24 38126464.40 38126464.55 0.2696 0.0742

Earth 99674-08-11 21:21 G 38126464.24 38126464.39 38126464.55 0.2689 0.0627 *

Neptune 99676-02-29 12:43 G 38127031.01 38127031.03 38127031.08 0.0088 0.0085

Neptune 99676-05-27 13:55 G 38127119.04 38127119.08 38127119.16 0.0088 0.0078

Neptune 99676-08-23 15:21 G 38127207.07 38127207.14 38127207.22 0.0088 0.0071

Mars 99676-10-14 06:14 G 38127258.59 38127258.76 38127258.92 0.1942 0.0059

Neptune 99676-11-19 16:33 G 38127295.11 38127295.19 38127295.29 0.0088 0.0064

Neptune 99677-02-15 17:45 G 38127383.15 38127383.24 38127383.35 0.0088 0.0057

Neptune 99677-05-14 19:11 G 38127471.20 38127471.30 38127471.41 0.0088 0.0050

Neptune 99677-08-10 20:23 G 38127559.24 38127559.35 38127559.47 0.0088 0.0043

Neptune 99677-11-06 21:50 G 38127647.29 38127647.41 38127647.53 0.0088 0.0036

Neptune 99678-02-02 23:02 G 38127735.33 38127735.46 38127735.58 0.0088 0.0029

Moon 99678-02-04 05:16 G 38127736.68 38127736.72 38127736.76 0.2651 0.2432

Earth 99678-02-04 05:31 G 38127736.69 38127736.73 38127736.78 0.2645 0.2353 *

Neptune 99678-05-02 00:14 G 38127823.38 38127823.51 38127823.64 0.0088 0.0022

Neptune 99678-07-29 01:26 G 38127911.43 38127911.56 38127911.69 0.0088 0.0015

Neptune 99678-10-25 02:38 G 38127999.48 38127999.61 38127999.75 0.0088 0.0009

Neptune 99679-01-21 03:50 G 38128087.53 38128087.66 38128087.80 0.0088 0.0004

Neptune 99679-04-19 05:16 G 38128175.59 38128175.72 38128175.85 0.0088 0.0006

Neptune 99679-07-16 06:28 G 38128263.64 38128263.77 38128263.90 0.0088 0.0012

Mars 99679-07-18 20:23 G 38128266.24 38128266.35 38128266.47 0.1600 0.0083

Jupiter 99679-10-10 15:50 G 38128350.04 38128350.16 38128350.28 0.0513 0.0176

Neptune 99679-10-12 07:40 G 38128351.69 38128351.82 38128351.95 0.0088 0.0019

Venus 99680-01-05 09:07 G 38128436.80 38128436.88 38128436.96 0.3639 0.2214

Jupiter 99680-01-07 19:26 G 38128439.25 38128439.31 38128439.36 0.0511 0.0456

Neptune 99680-01-08 08:52 G 38128439.75 38128439.87 38128440.00 0.0088 0.0026

Neptune 99680-04-05 10:04 G 38128527.80 38128527.92 38128528.05 0.0088 0.0033

Neptune 99680-07-02 11:16 G 38128615.86 38128615.97 38128616.09 0.0088 0.0040

Neptune 99680-09-28 12:28 G 38128703.92 38128704.02 38128704.14 0.0088 0.0047

Neptune 99680-12-25 13:40 G 38128791.98 38128792.07 38128792.19 0.0088 0.0054

Neptune 99681-03-23 14:52 G 38128880.04 38128880.12 38128880.23 0.0088 0.0061

Neptune 99681-06-19 16:19 G 38128968.10 38128968.18 38128968.27 0.0088 0.0068

Neptune 99681-09-15 17:31 G 38129056.17 38129056.23 38129056.31 0.0088 0.0075

Neptune 99681-12-12 18:57 G 38129144.25 38129144.29 38129144.34 0.0088 0.0081

Saturn 99683-04-10 01:11 G 38129627.51 38129627.55 38129627.60 0.0274 0.0266

Saturn 99683-07-08 00:43 G 38129716.35 38129716.53 38129716.72 0.0275 0.0067

Saturn 99683-10-05 00:28 G 38129805.35 38129805.52 38129805.69 0.0276 0.0136

Venus 99685-07-21 00:14 G 38130460.41 38130460.51 38130460.61 0.3637 0.0414

Jupiter 99685-11-29 17:59 G 38130592.14 38130592.25 38130592.37 0.0513 0.0409

Mars 99686-03-05 21:35 G 38130688.30 38130688.40 38130688.50 0.1936 0.1546

Mars 99688-12-08 08:09 G 38131696.73 38131696.84 38131696.96 0.1603 0.0346

Mars 99690-11-13 09:21 G 38132401.83 38132401.89 38132401.94 0.1591 0.1379

Venus 99691-02-03 15:07 G 38132484.03 38132484.13 38132484.22 0.3635 0.1433

Earth 99691-02-06 22:33 G 38132487.34 38132487.44 38132487.54 0.2644 0.0889

Moon 99691-02-06 22:47 G 38132487.35 38132487.45 38132487.55 0.2649 0.0855 *

Jupiter 99691-07-29 20:09 G 38132660.25 38132660.34 38132660.44 0.0513 0.0342

Jupiter 99691-10-26 23:45 G 38132749.39 38132749.49 38132749.59 0.0511 0.0292

Venus 99696-08-19 05:59 G 38134507.70 38134507.75 38134507.79 0.3633 0.3231

Saturn 99696-08-20 19:40 G 38134509.21 38134509.32 38134509.43 0.0288 0.0143

Saturn 99696-11-17 06:57 G 38134597.66 38134597.79 38134597.92 0.0287 0.0012

Saturn 99697-02-13 17:59 G 38134686.15 38134686.25 38134686.36 0.0286 0.0159

Uranus 99697-11-01 23:31 G 38134947.45 38134947.48 38134947.51 0.0141 0.0137

Jupiter 99697-12-17 05:31 G 38134992.59 38134992.73 38134992.87 0.0515 0.0348

Uranus 99698-01-29 02:52 G 38135035.55 38135035.62 38135035.69 0.0142 0.0116

Uranus 99698-04-27 05:59 G 38135123.67 38135123.75 38135123.86 0.0142 0.0096

Mars 99698-04-30 19:55 G 38135127.23 38135127.33 38135127.43 0.1607 0.0769

Uranus 99698-07-24 09:35 G 38135211.79 38135211.90 38135212.01 0.0142 0.0074

Uranus 99698-10-20 12:57 G 38135299.92 38135300.04 38135300.17 0.0142 0.0054

Uranus 99699-01-16 16:19 G 38135388.06 38135388.18 38135388.31 0.0142 0.0033

Uranus 99699-04-14 19:55 G 38135476.20 38135476.33 38135476.46 0.0142 0.0012

Uranus 99699-07-11 23:16 G 38135564.34 38135564.47 38135564.60 0.0142 0.0009

Uranus 99699-10-08 02:38 G 38135652.48 38135652.61 38135652.74 0.0142 0.0031

Uranus 99700-01-04 05:59 G 38135740.63 38135740.75 38135740.88 0.0142 0.0052

Uranus 99700-04-02 09:21 G 38135828.78 38135828.89 38135829.01 0.0142 0.0073

Mars 99700-04-05 21:07 G 38135832.28 38135832.38 38135832.47 0.1594 0.0964

Uranus 99700-06-29 12:43 G 38135916.94 38135917.03 38135917.14 0.0142 0.0094

Uranus 99700-09-25 16:04 G 38136005.11 38136005.17 38136005.26 0.0142 0.0116

Uranus 99700-12-22 19:40 G 38136093.29 38136093.32 38136093.36 0.0142 0.0136

Jupiter 99703-05-19 00:57 G 38136970.52 38136970.54 38136970.56 0.0513 0.0503

Jupiter 99703-08-16 04:33 G 38137059.57 38137059.69 38137059.81 0.0511 0.0133

Earth 99704-02-10 15:35 G 38137238.05 38137238.15 38137238.26 0.2642 0.0593

Moon 99704-02-10 16:19 G 38137238.08 38137238.18 38137238.28 0.2646 0.0722 *

Mars 99706-11-24 15:21 G 38138256.06 38138256.14 38138256.22 0.1947 0.1717

Mars 99707-09-22 07:40 G 38138557.74 38138557.82 38138557.89 0.1611 0.1193

Mars 99709-08-27 08:38 G 38139262.75 38139262.86 38139262.97 0.1597 0.0547

Jupiter 99709-10-06 01:26 G 38139302.37 38139302.56 38139302.74 0.0514 0.0100

Venus 99710-06-24 03:50 G 38139563.50 38139563.66 38139563.83 0.3737 0.0326

Saturn 99712-11-24 23:31 G 38140448.32 38140448.48 38140448.66 0.0275 0.0121

Saturn 99713-02-21 23:16 G 38140537.29 38140537.47 38140537.65 0.0276 0.0081

Jupiter 99715-06-04 09:07 G 38141369.75 38141369.88 38141370.00 0.0512 0.0034

Mars 99716-04-15 07:11 G 38141685.63 38141685.80 38141685.96 0.1942 0.0163

Earth 99717-02-12 08:52 G 38141988.80 38141988.87 38141988.94 0.2641 0.2059

Moon 99717-02-12 09:21 G 38141988.83 38141988.89 38141988.96 0.2638 0.2103 *

Mars 99719-01-17 20:23 G 38142693.24 38142693.35 38142693.47 0.1600 0.0132

Earth 99720-08-13 04:33 G 38143266.53 38143266.69 38143266.85 0.2689 0.0098

Moon 99720-08-13 04:47 G 38143266.54 38143266.70 38143266.85 0.2696 0.0223 *

Jupiter 99721-07-24 20:52 G 38143612.19 38143612.37 38143612.54 0.0514 0.0154

Moon 99724-02-06 10:04 G 38144538.85 38144538.92 38144538.99 0.2651 0.2064

Earth 99724-02-06 10:19 G 38144538.86 38144538.93 38144539.00 0.2645 0.2058 *

Mars 99725-09-04 22:33 G 38145115.33 38145115.44 38145115.55 0.1936 0.1422

Saturn 99726-01-08 22:33 G 38145241.34 38145241.44 38145241.55 0.0288 0.0178

Saturn 99726-04-07 09:50 G 38145329.79 38145329.91 38145330.04 0.0287 0.0028

Saturn 99726-07-04 21:07 G 38145418.27 38145418.38 38145418.50 0.0286 0.0124

Saturn 99726-10-01 08:09 G 38145506.81 38145506.84 38145506.88 0.0285 0.0272

Jupiter 99727-03-23 13:55 G 38145679.96 38145680.08 38145680.19 0.0513 0.0189

Jupiter 99727-06-20 17:16 G 38145769.17 38145769.22 38145769.29 0.0511 0.0445

Mars 99728-06-09 08:09 G 38146123.73 38146123.84 38146123.96 0.1603 0.0296

Mars 99730-05-15 09:21 G 38146828.84 38146828.89 38146828.94 0.1591 0.1432

Venus 99731-01-27 15:35 G 38147086.11 38147086.15 38147086.18 0.3641 0.3400

Jupiter 99733-05-12 15:35 G 38147922.04 38147922.15 38147922.26 0.0513 0.0415

Venus 99736-08-12 06:28 G 38149109.68 38149109.77 38149109.86 0.3639 0.1561

Earth 99737-02-08 03:21 G 38149289.53 38149289.64 38149289.74 0.2643 0.0591

Moon 99737-02-08 03:35 G 38149289.55 38149289.65 38149289.76 0.2649 0.0564 *

Mars 99737-10-30 19:55 G 38149554.22 38149554.33 38149554.43 0.1607 0.0724

Jupiter 99739-01-09 18:43 G 38149990.19 38149990.28 38149990.37 0.0513 0.0346

Uranus 99739-02-22 07:55 G 38150033.78 38150033.83 38150033.91 0.0136 0.0128

Jupiter 99739-04-08 22:19 G 38150079.33 38150079.43 38150079.53 0.0511 0.0290

Uranus 99739-05-21 15:50 G 38150122.04 38150122.16 38150122.30 0.0136 0.0100

Uranus 99739-08-17 23:31 G 38150210.32 38150210.48 38150210.66 0.0136 0.0072

Mars 99739-10-05 21:07 G 38150259.29 38150259.38 38150259.46 0.1594 0.1015

Uranus 99739-11-14 07:26 G 38150298.63 38150298.81 38150299.00 0.0136 0.0044

Uranus 99740-02-10 15:07 G 38150386.94 38150387.13 38150387.33 0.0136 0.0016

Uranus 99740-05-08 22:47 G 38150475.26 38150475.45 38150475.65 0.0136 0.0012

Uranus 99740-08-05 06:28 G 38150563.59 38150563.77 38150563.96 0.0136 0.0039

Uranus 99740-11-01 14:09 G 38150651.92 38150652.09 38150652.26 0.0136 0.0067

Uranus 99741-01-28 21:35 G 38150740.27 38150740.40 38150740.55 0.0136 0.0095

Uranus 99741-04-27 05:31 G 38150828.65 38150828.73 38150828.81 0.0136 0.0122

Venus 99742-02-25 21:21 G 38151133.29 38151133.39 38151133.49 0.3636 0.0283

Saturn 99742-04-13 23:02 G 38151180.32 38151180.46 38151180.62 0.0275 0.0170

Saturn 99742-07-11 22:47 G 38151269.26 38151269.45 38151269.64 0.0276 0.0031

Saturn 99742-10-08 22:19 G 38151358.34 38151358.43 38151358.54 0.0277 0.0235

Jupiter 99745-05-30 02:23 G 38152322.46 38152322.60 38152322.75 0.0514 0.0335

Mars 99746-05-25 16:19 G 38152683.14 38152683.18 38152683.23 0.1947 0.1851

Mars 99747-03-23 07:26 G 38152984.73 38152984.81 38152984.89 0.1610 0.1150

Venus 99747-09-11 12:14 G 38153156.93 38153157.01 38153157.10 0.3634 0.2070

Mars 99749-02-25 08:38 G 38153689.75 38153689.86 38153689.97 0.1597 0.0593

Earth 99750-02-10 20:23 G 38154040.25 38154040.35 38154040.45 0.2642 0.0883

Moon 99750-02-10 21:07 G 38154040.28 38154040.38 38154040.48 0.2645 0.0966 *

Jupiter 99750-10-28 23:16 G 38154300.46 38154300.47 38154300.48 0.0513 0.0510

Jupiter 99751-01-26 02:52 G 38154389.50 38154389.62 38154389.74 0.0511 0.0127

Saturn 99755-05-29 01:40 G 38155973.49 38155973.57 38155973.66 0.0289 0.0216

Saturn 99755-08-25 12:57 G 38156061.92 38156062.04 38156062.17 0.0288 0.0063

Mars 99755-10-15 07:55 G 38156112.67 38156112.83 38156113.00 0.1942 0.0279

Saturn 99755-11-22 00:14 G 38156150.39 38156150.51 38156150.63 0.0287 0.0088

Saturn 99756-02-18 11:16 G 38156238.91 38156238.97 38156239.05 0.0285 0.0237

Mars 99756-08-12 19:11 G 38156415.28 38156415.30 38156415.32 0.1614 0.1577

Jupiter 99757-03-17 22:19 G 38156632.25 38156632.43 38156632.62 0.0514 0.0088

Mars 99758-07-18 20:23 G 38157120.23 38157120.35 38157120.47 0.1600 0.0174

Neptune 99760-02-07 07:11 G 38157688.76 38157688.80 38157688.90 0.0090 0.0084

Neptune 99760-05-05 11:16 G 38157776.87 38157776.97 38157777.10 0.0090 0.0073

Neptune 99760-08-01 15:07 G 38157865.00 38157865.13 38157865.29 0.0090 0.0062

Neptune 99760-10-28 18:57 G 38157953.14 38157953.29 38157953.47 0.0090 0.0051

Neptune 99761-01-24 22:47 G 38158041.29 38158041.45 38158041.64 0.0090 0.0040

Neptune 99761-04-23 02:38 G 38158129.44 38158129.61 38158129.81 0.0090 0.0029

Neptune 99761-07-20 06:43 G 38158217.59 38158217.78 38158217.98 0.0090 0.0018

Neptune 99761-10-16 10:33 G 38158305.74 38158305.94 38158306.14 0.0090 0.0007

Neptune 99762-01-12 14:23 G 38158393.90 38158394.10 38158394.30 0.0090 0.0004

Neptune 99762-04-10 17:59 G 38158482.06 38158482.25 38158482.45 0.0090 0.0016

Neptune 99762-07-07 21:50 G 38158570.23 38158570.41 38158570.61 0.0090 0.0026

Neptune 99762-10-04 01:26 G 38158658.40 38158658.56 38158658.76 0.0090 0.0038

Jupiter 99762-11-14 07:40 G 38158699.69 38158699.82 38158699.94 0.0512 0.0031

Neptune 99762-12-31 05:31 G 38158746.57 38158746.73 38158746.90 0.0090 0.0048

Earth 99763-02-13 13:26 G 38158791.02 38158791.06 38158791.11 0.2641 0.2361

Moon 99763-02-13 14:09 G 38158791.06 38158791.09 38158791.12 0.2637 0.2489 *

Neptune 99763-03-29 09:21 G 38158834.75 38158834.89 38158835.04 0.0090 0.0059

Neptune 99763-06-25 12:57 G 38158922.93 38158923.04 38158923.17 0.0090 0.0070

Neptune 99763-09-21 16:47 G 38159011.13 38159011.20 38159011.29 0.0090 0.0081

Mars 99765-03-05 23:02 G 38159542.34 38159542.46 38159542.58 0.1936 0.1324

Earth 99766-08-14 11:31 G 38160068.82 38160068.98 38160069.13 0.2690 0.0795

Moon 99766-08-14 11:59 G 38160068.85 38160069.00 38160069.16 0.2696 0.0849 *

Venus 99767-01-29 07:26 G 38160236.71 38160236.81 38160236.91 0.3738 0.2920

Mars 99767-12-09 08:09 G 38160550.72 38160550.84 38160550.95 0.1603 0.0249

Jupiter 99769-01-03 18:28 G 38160942.09 38160942.27 38160942.45 0.0514 0.0157

Mars 99769-11-13 09:21 G 38161255.85 38161255.89 38161255.93 0.1591 0.1481

Moon 99770-02-06 14:52 G 38161341.05 38161341.12 38161341.20 0.2651 0.1828

Earth 99770-02-06 15:07 G 38161341.05 38161341.13 38161341.21 0.2644 0.1757 *

Saturn 99771-08-31 21:21 G 38161912.29 38161912.39 38161912.50 0.0274 0.0228

Saturn 99771-11-28 21:07 G 38162001.19 38162001.38 38162001.57 0.0275 0.0028

Saturn 99772-02-25 20:38 G 38162090.21 38162090.36 38162090.51 0.0276 0.0174

Jupiter 99774-09-02 12:14 G 38163009.89 38163010.01 38163010.12 0.0512 0.0195

Jupiter 99774-11-30 15:35 G 38163099.09 38163099.15 38163099.22 0.0510 0.0437

Mars 99777-04-30 19:55 G 38163981.22 38163981.33 38163981.43 0.1606 0.0673

Mars 99779-04-05 20:52 G 38164686.29 38164686.37 38164686.46 0.1594 0.1065

Jupiter 99780-10-22 14:09 G 38165251.97 38165252.09 38165252.20 0.0513 0.0405

Uranus 99781-11-23 06:43 G 38165648.74 38165648.78 38165648.83 0.0142 0.0132

Uranus 99782-02-19 10:04 G 38165736.84 38165736.92 38165737.00 0.0142 0.0111

Uranus 99782-05-18 13:26 G 38165824.96 38165825.06 38165825.16 0.0142 0.0090

Uranus 99782-08-14 16:47 G 38165913.09 38165913.20 38165913.32 0.0142 0.0070

Uranus 99782-11-10 20:23 G 38166001.23 38166001.35 38166001.47 0.0142 0.0048

Uranus 99783-02-06 23:45 G 38166089.36 38166089.49 38166089.62 0.0142 0.0027

Earth 99783-02-09 08:09 G 38166091.73 38166091.84 38166091.94 0.2643 0.0303

Moon 99783-02-09 08:38 G 38166091.75 38166091.86 38166091.96 0.2648 0.0212 *

Uranus 99783-05-06 03:07 G 38166177.50 38166177.63 38166177.76 0.0142 0.0007

Uranus 99783-08-02 06:28 G 38166265.64 38166265.77 38166265.90 0.0142 0.0016

Uranus 99783-10-29 10:04 G 38166353.79 38166353.92 38166354.04 0.0142 0.0036

Uranus 99784-01-25 13:26 G 38166441.94 38166442.06 38166442.18 0.0142 0.0057

Pluto 99784-03-20 12:57 G 38166496.98 38166497.04 38166497.12 0.0060 0.0056

Uranus 99784-04-22 16:47 G 38166530.09 38166530.20 38166530.31 0.0142 0.0078

Pluto 99784-06-16 14:09 G 38166584.98 38166585.09 38166585.22 0.0060 0.0046

Uranus 99784-07-19 20:09 G 38166618.25 38166618.34 38166618.44 0.0142 0.0100

Pluto 99784-09-12 15:21 G 38166673.00 38166673.14 38166673.31 0.0060 0.0036

Saturn 99784-10-15 04:19 G 38166705.62 38166705.68 38166705.73 0.0289 0.0258

Uranus 99784-10-15 23:45 G 38166706.42 38166706.49 38166706.56 0.0142 0.0121

Pluto 99784-12-09 16:47 G 38166761.03 38166761.20 38166761.38 0.0060 0.0025

Saturn 99785-01-11 15:35 G 38166794.03 38166794.15 38166794.27 0.0288 0.0104

Uranus 99785-01-12 03:07 G 38166794.63 38166794.63 38166794.64 0.0142 0.0142

Pluto 99785-03-07 17:59 G 38166849.07 38166849.25 38166849.44 0.0060 0.0015

Saturn 99785-04-10 02:52 G 38166882.49 38166882.62 38166882.75 0.0287 0.0047

Pluto 99785-06-03 19:11 G 38166937.12 38166937.30 38166937.50 0.0061 0.0006

Saturn 99785-07-07 13:55 G 38166970.99 38166971.08 38166971.18 0.0285 0.0197

Pluto 99785-08-30 20:38 G 38167025.17 38167025.36 38167025.55 0.0061 0.0005

Pluto 99785-11-26 21:35 G 38167113.23 38167113.40 38167113.60 0.0061 0.0016

Pluto 99786-02-22 22:47 G 38167201.29 38167201.45 38167201.64 0.0061 0.0026

Pluto 99786-05-21 23:59 G 38167289.37 38167289.50 38167289.67 0.0061 0.0036

Jupiter 99786-06-21 16:47 G 38167320.11 38167320.20 38167320.30 0.0513 0.0353

Pluto 99786-08-18 01:26 G 38167377.45 38167377.56 38167377.69 0.0061 0.0046

Jupiter 99786-09-18 20:23 G 38167409.25 38167409.35 38167409.46 0.0511 0.0283

Mars 99786-09-21 07:26 G 38167411.73 38167411.81 38167411.90 0.1610 0.1101

Pluto 99786-11-14 02:52 G 38167465.55 38167465.62 38167465.69 0.0061 0.0056

Venus 99787-09-03 12:43 G 38167758.97 38167759.03 38167759.10 0.3641 0.2751

Mars 99788-08-26 08:38 G 38168116.75 38168116.86 38168116.97 0.1596 0.0645

Jupiter 99792-11-09 00:14 G 38169652.38 38169652.51 38169652.66 0.0514 0.0335

Venus 99793-03-19 03:50 G 38169782.56 38169782.66 38169782.76 0.3638 0.0919

Mars 99795-04-15 08:52 G 38170539.70 38170539.87 38170540.03 0.1942 0.0392

Mars 99796-02-11 19:11 G 38170842.27 38170842.30 38170842.33 0.1614 0.1531

Earth 99796-02-12 01:11 G 38170842.45 38170842.55 38170842.65 0.2642 0.1181

Moon 99796-02-12 01:55 G 38170842.48 38170842.58 38170842.67 0.2642 0.1282 *

Mars 99798-01-16 20:23 G 38171547.23 38171547.35 38171547.46 0.1600 0.0224

Jupiter 99798-04-09 21:35 G 38171630.39 38171630.40 38171630.42 0.0514 0.0510

Jupiter 99798-07-08 01:26 G 38171719.44 38171719.56 38171719.68 0.0512 0.0129

Venus 99798-10-02 18:43 G 38171806.18 38171806.28 38171806.38 0.3636 0.0894

Moon 99799-08-12 08:23 G 38172119.77 38172119.85 38172119.93 0.2695 0.2302

Earth 99799-08-12 08:52 G 38172119.79 38172119.87 38172119.96 0.2688 0.2270 *

Saturn 99801-04-17 19:40 G 38172733.14 38172733.32 38172733.51 0.0275 0.0085

Saturn 99801-07-15 19:26 G 38172822.13 38172822.31 38172822.48 0.0276 0.0117

Venus 99804-04-18 09:35 G 38173829.83 38173829.90 38173829.97 0.3634 0.2696

Jupiter 99804-08-28 20:09 G 38173962.15 38173962.34 38173962.52 0.0514 0.0086

Mars 99804-09-05 00:14 G 38173969.38 38173969.51 38173969.65 0.1936 0.1185

Mars 99807-06-10 08:09 G 38174977.72 38174977.84 38174977.95 0.1603 0.0203

Mars 99809-05-15 09:07 G 38175682.85 38175682.88 38175682.91 0.1591 0.1529

Jupiter 99810-04-27 05:59 G 38176029.63 38176029.75 38176029.88 0.0512 0.0033

Earth 99812-08-15 18:28 G 38176871.13 38176871.27 38176871.40 0.2690 0.1504

Moon 99812-08-15 19:26 G 38176871.19 38176871.31 38176871.44 0.2696 0.1667 *

Saturn 99814-06-01 18:28 G 38177526.16 38177526.27 38177526.38 0.0289 0.0144

Saturn 99814-08-29 05:45 G 38177614.61 38177614.74 38177614.87 0.0287 0.0009

Saturn 99814-11-25 16:47 G 38177703.10 38177703.20 38177703.31 0.0286 0.0159

Moon 99816-02-08 19:55 G 38178143.23 38178143.33 38178143.42 0.2651 0.1400

Earth 99816-02-08 19:40 G 38178143.23 38178143.32 38178143.41 0.2644 0.1459 *

Jupiter 99816-06-16 15:50 G 38178271.98 38178272.16 38178272.34 0.0514 0.0163

Mars 99816-10-30 19:40 G 38178408.22 38178408.32 38178408.43 0.1607 0.0628

Venus 99818-02-19 20:38 G 38178885.26 38178885.36 38178885.47 0.3735 0.2780

Mars 99818-10-05 20:52 G 38179113.29 38179113.37 38179113.46 0.1594 0.1113

Jupiter 99822-02-13 11:02 G 38180339.84 38180339.96 38180340.07 0.0512 0.0188

Jupiter 99822-05-13 14:23 G 38180429.04 38180429.10 38180429.16 0.0510 0.0442

Uranus 99823-03-15 15:21 G 38180735.06 38180735.14 38180735.24 0.0136 0.0120

Uranus 99823-06-11 23:02 G 38180823.33 38180823.46 38180823.62 0.0136 0.0093

Uranus 99823-09-08 06:57 G 38180911.62 38180911.79 38180911.97 0.0136 0.0064

Uranus 99823-12-05 14:52 G 38180999.93 38181000.12 38181000.31 0.0136 0.0036

Uranus 99824-03-02 22:33 G 38181088.24 38181088.44 38181088.63 0.0136 0.0009

Uranus 99824-05-30 06:14 G 38181176.56 38181176.76 38181176.95 0.0136 0.0019

Uranus 99824-08-26 13:40 G 38181264.89 38181265.07 38181265.26 0.0136 0.0047

Uranus 99824-11-22 21:21 G 38181353.24 38181353.39 38181353.56 0.0136 0.0075

Uranus 99825-02-19 05:16 G 38181441.59 38181441.72 38181441.85 0.0136 0.0102

Uranus 99825-05-18 12:43 G 38181529.98 38181530.03 38181530.09 0.0136 0.0130

Mars 99826-03-23 07:26 G 38181838.73 38181838.81 38181838.90 0.1610 0.1054

Mars 99828-02-26 08:38 G 38182543.75 38182543.86 38182543.96 0.1597 0.0692

Jupiter 99828-04-04 11:59 G 38182581.89 38182582.00 38182582.12 0.0513 0.0404

Earth 99829-02-10 12:43 G 38182893.93 38182894.03 38182894.14 0.2643 0.0104

Moon 99829-02-10 13:11 G 38182893.95 38182894.05 38182894.16 0.2648 0.0117 *

Saturn 99830-09-04 17:16 G 38183465.07 38183465.22 38183465.39 0.0274 0.0148

Saturn 99830-12-02 17:02 G 38183554.02 38183554.21 38183554.40 0.0275 0.0052

Saturn 99831-03-01 16:19 G 38183643.12 38183643.18 38183643.26 0.0276 0.0256

Jupiter 99833-12-02 15:21 G 38184650.05 38184650.14 38184650.24 0.0513 0.0352

Jupiter 99834-03-01 18:57 G 38184739.19 38184739.29 38184739.40 0.0511 0.0283

Mars 99834-10-15 09:50 G 38184966.75 38184966.91 38184967.07 0.1943 0.0528

Mars 99835-08-13 19:11 G 38185269.26 38185269.30 38185269.34 0.1614 0.1482

Mars 99837-07-18 20:23 G 38185974.23 38185974.35 38185974.46 0.1599 0.0274

Jupiter 99840-04-21 23:16 G 38186982.34 38186982.47 38186982.61 0.0515 0.0352

Neptune 99840-11-27 12:43 G 38187201.99 38187202.03 38187202.09 0.0088 0.0081

Neptune 99841-02-23 14:09 G 38187290.02 38187290.09 38187290.16 0.0088 0.0074

Neptune 99841-05-22 15:07 G 38187378.06 38187378.13 38187378.22 0.0088 0.0068

Neptune 99841-08-18 16:19 G 38187466.10 38187466.18 38187466.29 0.0088 0.0061

Neptune 99841-11-14 17:45 G 38187554.14 38187554.24 38187554.35 0.0088 0.0054

Neptune 99842-02-10 18:57 G 38187642.19 38187642.29 38187642.41 0.0088 0.0047

Earth 99842-02-13 05:59 G 38187644.66 38187644.75 38187644.84 0.2642 0.1486

Moon 99842-02-13 06:28 G 38187644.69 38187644.77 38187644.86 0.2640 0.1628 *

Neptune 99842-05-09 20:09 G 38187730.23 38187730.34 38187730.46 0.0088 0.0040

Neptune 99842-08-05 21:35 G 38187818.28 38187818.40 38187818.52 0.0088 0.0033

Neptune 99842-11-01 22:47 G 38187906.33 38187906.45 38187906.58 0.0088 0.0026

Neptune 99843-01-28 23:59 G 38187994.37 38187994.50 38187994.63 0.0088 0.0019

Neptune 99843-04-27 01:11 G 38188082.42 38188082.55 38188082.68 0.0088 0.0013

Neptune 99843-07-24 02:38 G 38188170.47 38188170.61 38188170.74 0.0088 0.0006

Saturn 99843-10-19 20:23 G 38188258.26 38188258.35 38188258.45 0.0289 0.0193

Neptune 99843-10-20 03:50 G 38188258.53 38188258.66 38188258.79 0.0088 0.0002

Neptune 99844-01-16 05:02 G 38188346.58 38188346.71 38188346.84 0.0088 0.0008

Saturn 99844-01-16 07:40 G 38188346.70 38188346.82 38188346.95 0.0288 0.0041 *

Mars 99844-03-06 01:11 G 38188396.41 38188396.55 38188396.69 0.1936 0.1067

Venus 99844-04-10 10:04 G 38188431.84 38188431.92 38188432.00 0.3640 0.2101

Neptune 99844-04-13 06:14 G 38188434.63 38188434.76 38188434.89 0.0088 0.0015

Saturn 99844-04-13 18:57 G 38188435.17 38188435.29 38188435.41 0.0286 0.0112

Neptune 99844-07-10 07:26 G 38188522.69 38188522.81 38188522.94 0.0088 0.0022

Saturn 99844-07-11 06:14 G 38188523.71 38188523.76 38188523.81 0.0285 0.0260

Neptune 99844-10-06 08:38 G 38188610.74 38188610.86 38188610.99 0.0088 0.0029

Neptune 99845-01-02 10:04 G 38188698.80 38188698.92 38188699.04 0.0088 0.0036

Neptune 99845-03-31 11:16 G 38188786.86 38188786.97 38188787.08 0.0088 0.0043

Neptune 99845-06-27 12:28 G 38188874.91 38188875.02 38188875.13 0.0088 0.0050

Earth 99845-08-13 15:50 G 38188922.03 38188922.16 38188922.30 0.2689 0.1556

Moon 99845-08-13 15:50 G 38188922.04 38188922.16 38188922.29 0.2695 0.1652 *

Jupiter 99845-09-20 20:09 G 38188960.33 38188960.34 38188960.35 0.0513 0.0510

Neptune 99845-09-23 13:40 G 38188962.97 38188963.07 38188963.17 0.0088 0.0057

Jupiter 99845-12-18 23:59 G 38189049.38 38189049.50 38189049.62 0.0511 0.0128

Neptune 99845-12-20 14:52 G 38189051.04 38189051.12 38189051.22 0.0088 0.0064

Neptune 99846-03-18 16:04 G 38189139.10 38189139.17 38189139.26 0.0088 0.0071

Neptune 99846-06-14 17:16 G 38189227.17 38189227.22 38189227.29 0.0088 0.0078

Neptune 99846-09-10 18:28 G 38189315.25 38189315.27 38189315.32 0.0088 0.0085

Mars 99846-12-09 08:09 G 38189404.72 38189404.84 38189404.95 0.1603 0.0163

Mars 99848-11-13 09:07 G 38190109.88 38190109.88 38190109.89 0.1591 0.1584

Moon 99849-02-06 06:57 G 38190194.79 38190194.79 38190194.79 0.2651 0.2649

Earth 99849-02-06 07:26 G 38190194.80 38190194.81 38190194.82 0.2645 0.2625

Venus 99849-10-25 00:57 G 38190455.44 38190455.54 38190455.64 0.3638 0.0304

Jupiter 99852-02-08 18:28 G 38191292.09 38191292.27 38191292.46 0.0514 0.0095

Venus 99855-05-10 16:04 G 38192479.07 38192479.17 38192479.26 0.3635 0.1536

Mars 99856-04-30 19:40 G 38192835.21 38192835.32 38192835.43 0.1606 0.0581

Jupiter 99857-10-07 04:47 G 38193359.58 38193359.70 38193359.83 0.0512 0.0028

Mars 99858-04-05 20:52 G 38193540.29 38193540.37 38193540.45 0.1594 0.1161

Earth 99858-08-17 01:26 G 38193673.47 38193673.56 38193673.65 0.2690 0.2211

Moon 99858-08-17 02:38 G 38193673.54 38193673.61 38193673.68 0.2696 0.2417 *

Saturn 99860-01-22 15:35 G 38194197.03 38194197.15 38194197.27 0.0274 0.0209

Saturn 99860-04-20 15:07 G 38194285.93 38194286.13 38194286.32 0.0275 0.0011

Saturn 99860-07-18 14:38 G 38194374.97 38194375.11 38194375.25 0.0276 0.0193

Venus 99860-11-23 06:57 G 38194502.75 38194502.79 38194502.82 0.3633 0.3322

Earth 99862-02-09 00:28 G 38194945.42 38194945.52 38194945.62 0.2644 0.1157

Moon 99862-02-09 00:43 G 38194945.43 38194945.53 38194945.62 0.2650 0.1184 *

Jupiter 99863-11-27 14:23 G 38195601.92 38195602.10 38195602.28 0.0513 0.0153

Mars 99865-09-21 07:26 G 38196265.72 38196265.81 38196265.90 0.1610 0.1007

Uranus 99865-12-14 13:40 G 38196350.02 38196350.07 38196350.13 0.0142 0.0128

Uranus 99866-03-12 17:16 G 38196438.14 38196438.22 38196438.30 0.0142 0.0107

Uranus 99866-06-08 20:38 G 38196526.26 38196526.36 38196526.46 0.0142 0.0086

Uranus 99866-09-04 23:59 G 38196614.39 38196614.50 38196614.62 0.0142 0.0065

Uranus 99866-12-02 03:21 G 38196702.52 38196702.64 38196702.77 0.0142 0.0044

Uranus 99867-02-28 06:57 G 38196790.66 38196790.79 38196790.92 0.0142 0.0023

Uranus 99867-05-27 10:19 G 38196878.80 38196878.93 38196879.06 0.0142 0.0002

Uranus 99867-08-23 13:40 G 38196966.94 38196967.07 38196967.20 0.0142 0.0019

Mars 99867-08-27 08:38 G 38196970.75 38196970.86 38196970.96 0.1596 0.0742

Uranus 99867-11-19 17:02 G 38197055.09 38197055.21 38197055.34 0.0142 0.0041

Uranus 99868-02-15 20:23 G 38197143.24 38197143.35 38197143.47 0.0142 0.0062

Uranus 99868-05-13 23:45 G 38197231.39 38197231.49 38197231.61 0.0142 0.0084

Uranus 99868-08-10 03:21 G 38197319.56 38197319.64 38197319.73 0.0142 0.0104

Uranus 99868-11-06 06:43 G 38197407.73 38197407.78 38197407.85 0.0142 0.0126

Jupiter 99869-07-26 09:35 G 38197669.78 38197669.90 38197670.02 0.0512 0.0185

Jupiter 99869-10-23 13:11 G 38197758.99 38197759.05 38197759.11 0.0510 0.0446

Saturn 99873-03-07 22:47 G 38198990.38 38198990.45 38198990.53 0.0290 0.0238

Saturn 99873-06-04 10:19 G 38199078.80 38199078.93 38199079.05 0.0288 0.0084

Saturn 99873-08-31 21:35 G 38199167.27 38199167.40 38199167.52 0.0287 0.0069

Saturn 99873-11-28 08:38 G 38199255.78 38199255.86 38199255.95 0.0286 0.0218

Mars 99874-04-15 10:33 G 38199393.78 38199393.94 38199394.10 0.1942 0.0635

Venus 99874-09-27 00:14 G 38199558.34 38199558.51 38199558.67 0.3737 0.0229

Earth 99875-02-11 17:31 G 38199696.12 38199696.23 38199696.34 0.2643 0.0317

Moon 99875-02-11 17:59 G 38199696.15 38199696.25 38199696.36 0.2647 0.0467 *

Mars 99875-02-11 19:11 G 38199696.25 38199696.30 38199696.35 0.1614 0.1439 *

Jupiter 99875-09-15 09:50 G 38199911.80 38199911.91 38199912.03 0.0514 0.0403

Mars 99877-01-16 20:23 G 38200401.23 38200401.35 38200401.46 0.1600 0.0325

Pluto 99878-06-30 07:26 G 38200930.78 38200930.81 38200930.88 0.0084 0.0078

Pluto 99878-09-26 09:07 G 38201018.79 38201018.88 38201018.98 0.0084 0.0058

Pluto 99878-12-23 10:19 G 38201106.81 38201106.93 38201107.05 0.0084 0.0039

Pluto 99879-03-21 11:31 G 38201194.85 38201194.98 38201195.12 0.0083 0.0019

Pluto 99879-06-17 12:57 G 38201282.90 38201283.04 38201283.17 0.0083 0.0002

Pluto 99879-09-13 14:09 G 38201370.96 38201371.09 38201371.22 0.0083 0.0019

Pluto 99879-12-10 15:21 G 38201459.02 38201459.14 38201459.26 0.0083 0.0038

Pluto 99880-03-07 16:33 G 38201547.09 38201547.19 38201547.29 0.0083 0.0057

Pluto 99880-06-03 17:45 G 38201635.19 38201635.24 38201635.29 0.0083 0.0076

Jupiter 99881-05-14 14:38 G 38201980.01 38201980.11 38201980.20 0.0512 0.0338

Jupiter 99881-08-11 18:14 G 38202069.15 38202069.26 38202069.36 0.0510 0.0294

Mars 99883-09-05 01:55 G 38202823.44 38202823.58 38202823.73 0.1937 0.0958

Mars 99886-06-09 07:55 G 38203831.72 38203831.83 38203831.95 0.1603 0.0120

Jupiter 99887-10-02 21:50 G 38204312.27 38204312.41 38204312.54 0.0515 0.0360

Earth 99888-02-14 10:33 G 38204446.87 38204446.94 38204447.02 0.2642 0.1791

Moon 99888-02-14 11:16 G 38204446.90 38204446.97 38204447.05 0.2640 0.1852 *

Saturn 99889-09-07 11:59 G 38205017.82 38205018.00 38205018.18 0.0274 0.0079

Saturn 99889-12-05 11:31 G 38205106.81 38205106.98 38205107.15 0.0275 0.0122

Earth 99891-08-14 23:02 G 38205724.31 38205724.46 38205724.61 0.2689 0.0832

Moon 99891-08-14 23:16 G 38205724.32 38205724.47 38205724.63 0.2695 0.0685 *

Jupiter 99893-03-02 19:11 G 38206290.28 38206290.30 38206290.32 0.0513 0.0501

Jupiter 99893-05-30 22:47 G 38206379.33 38206379.45 38206379.57 0.0511 0.0134

Moon 99895-02-07 11:45 G 38206996.95 38206996.99 38206997.04 0.2651 0.2416

Earth 99895-02-07 12:14 G 38206996.96 38206997.01 38206997.05 0.2645 0.2329 *

Venus 99895-05-02 16:19 G 38207081.14 38207081.18 38207081.23 0.3642 0.3294

Mars 99895-10-30 19:40 G 38207262.21 38207262.32 38207262.43 0.1606 0.0529

Mars 99897-10-04 20:52 G 38207967.30 38207967.37 38207967.45 0.1594 0.1213

Jupiter 99899-07-21 17:45 G 38208622.06 38208622.24 38208622.42 0.0514 0.0115

Venus 99900-11-16 07:26 G 38209104.72 38209104.81 38209104.90 0.3639 0.1468

Saturn 99902-10-23 11:59 G 38209810.88 38209811.00 38209811.11 0.0289 0.0137

Saturn 99903-01-19 23:16 G 38209899.34 38209899.47 38209899.60 0.0288 0.0016

Saturn 99903-04-18 10:33 G 38209987.83 38209987.94 38209988.04 0.0286 0.0167

Jupiter 99905-03-20 03:35 G 38210689.53 38210689.65 38210689.78 0.0512 0.0024

Mars 99905-03-23 07:26 G 38210692.71 38210692.81 38210692.90 0.1610 0.0961

Venus 99906-06-01 22:19 G 38211128.33 38211128.43 38211128.53 0.3637 0.0353

Mars 99907-02-26 08:38 G 38211397.76 38211397.86 38211397.96 0.1596 0.0794

Uranus 99907-04-05 22:47 G 38211436.35 38211436.45 38211436.57 0.0136 0.0112

Uranus 99907-07-03 06:28 G 38211524.63 38211524.77 38211524.94 0.0136 0.0085

Uranus 99907-09-29 14:23 G 38211612.93 38211613.10 38211613.28 0.0136 0.0056

Uranus 99907-12-26 22:04 G 38211701.23 38211701.42 38211701.62 0.0136 0.0029

Earth 99908-02-11 05:16 G 38211747.62 38211747.72 38211747.82 0.2644 0.0863

Moon 99908-02-11 05:31 G 38211747.63 38211747.73 38211747.83 0.2650 0.0767 *

Uranus 99908-03-24 05:59 G 38211789.55 38211789.75 38211789.94 0.0136 0.0003

Uranus 99908-06-20 13:40 G 38211877.87 38211878.07 38211878.26 0.0136 0.0027

Uranus 99908-09-16 21:07 G 38211966.21 38211966.38 38211966.57 0.0136 0.0055

Uranus 99908-12-14 04:33 G 38212054.55 38212054.69 38212054.86 0.0136 0.0083

Uranus 99909-03-12 12:28 G 38212142.91 38212143.02 38212143.14 0.0136 0.0110

Jupiter 99911-05-10 13:11 G 38212931.87 38212932.05 38212932.23 0.0513 0.0137

Venus 99911-12-16 13:11 G 38213151.97 38213152.05 38213152.13 0.3635 0.2156

Mars 99913-10-15 11:31 G 38213820.83 38213820.98 38213821.14 0.1943 0.0762

Mars 99914-08-13 18:57 G 38214123.24 38214123.29 38214123.35 0.1614 0.1393

Mars 99916-07-18 20:09 G 38214828.23 38214828.34 38214828.46 0.1599 0.0370

Jupiter 99917-01-06 08:38 G 38214999.74 38214999.86 38214999.98 0.0513 0.0176

Jupiter 99917-04-05 11:59 G 38215088.95 38215089.00 38215089.06 0.0511 0.0456

Saturn 99919-01-26 09:21 G 38215749.73 38215749.89 38215750.06 0.0274 0.0145

Saturn 99919-04-25 08:52 G 38215838.69 38215838.87 38215839.06 0.0275 0.0055

Saturn 99919-07-23 08:23 G 38215927.79 38215927.85 38215927.92 0.0276 0.0258

Earth 99921-02-12 22:19 G 38216498.32 38216498.43 38216498.53 0.2643 0.0615

Moon 99921-02-12 23:02 G 38216498.35 38216498.46 38216498.56 0.2644 0.0666 *

Jupiter 99923-02-26 09:07 G 38217241.76 38217241.88 38217242.01 0.0513 0.0381

Mars 99923-03-07 03:07 G 38217250.48 38217250.63 38217250.78 0.1937 0.0823

Neptune 99924-08-09 02:09 G 38217771.59 38217771.59 38217771.62 0.0090 0.0089

Neptune 99924-11-05 05:45 G 38217859.67 38217859.74 38217859.86 0.0090 0.0079

Neptune 99925-02-01 09:35 G 38217947.80 38217947.90 38217948.05 0.0090 0.0068

Neptune 99925-04-30 13:40 G 38218035.93 38218036.07 38218036.24 0.0090 0.0057

Neptune 99925-07-27 17:31 G 38218124.08 38218124.23 38218124.41 0.0090 0.0046

Neptune 99925-10-23 21:21 G 38218212.22 38218212.39 38218212.59 0.0090 0.0035

Mars 99925-12-09 07:55 G 38218258.72 38218258.83 38218258.95 0.1603 0.0068

Neptune 99926-01-20 01:26 G 38218300.37 38218300.56 38218300.75 0.0090 0.0023

Neptune 99926-04-18 05:16 G 38218388.53 38218388.72 38218388.92 0.0090 0.0012

Neptune 99926-07-15 09:07 G 38218476.69 38218476.88 38218477.08 0.0090 0.0002

Neptune 99926-10-11 12:57 G 38218564.85 38218565.04 38218565.24 0.0090 0.0010

Neptune 99927-01-07 16:47 G 38218653.01 38218653.20 38218653.39 0.0090 0.0021

Neptune 99927-04-05 20:23 G 38218741.18 38218741.35 38218741.55 0.0090 0.0032

Neptune 99927-07-03 00:14 G 38218829.35 38218829.51 38218829.69 0.0090 0.0043

Neptune 99927-09-29 03:50 G 38218917.52 38218917.66 38218917.84 0.0090 0.0054

Neptune 99927-12-26 07:40 G 38219005.70 38219005.82 38219005.97 0.0090 0.0065

Neptune 99928-03-23 11:59 G 38219093.89 38219094.00 38219094.10 0.0090 0.0075

Neptune 99928-06-19 15:35 G 38219182.10 38219182.15 38219182.21 0.0090 0.0086

Jupiter 99928-10-25 13:26 G 38219309.96 38219310.06 38219310.16 0.0513 0.0331

Jupiter 99929-01-22 17:02 G 38219399.11 38219399.21 38219399.31 0.0510 0.0301

Venus 99931-05-05 03:21 G 38220231.51 38220231.64 38220231.77 0.3738 0.2302

Saturn 99932-03-11 13:55 G 38220542.99 38220543.08 38220543.18 0.0289 0.0186

Saturn 99932-06-08 01:26 G 38220631.43 38220631.56 38220631.69 0.0288 0.0032

Saturn 99932-09-04 12:43 G 38220719.91 38220720.03 38220720.15 0.0287 0.0120

Saturn 99932-12-01 23:45 G 38220808.46 38220808.49 38220808.54 0.0286 0.0269

Earth 99934-02-15 15:21 G 38221249.08 38221249.14 38221249.20 0.2641 0.2090

Moon 99934-02-15 16:04 G 38221249.11 38221249.17 38221249.22 0.2639 0.2247 *

Jupiter 99935-03-15 19:55 G 38221642.20 38221642.33 38221642.46 0.0515 0.0367

Mars 99935-05-01 19:40 G 38221689.21 38221689.32 38221689.43 0.1606 0.0485

Mars 99937-04-05 20:52 G 38222394.30 38222394.37 38222394.44 0.1593 0.1262

Earth 99937-08-16 05:59 G 38222526.59 38222526.75 38222526.91 0.2689 0.0135

Moon 99937-08-16 06:43 G 38222526.62 38222526.78 38222526.94 0.2696 0.0152 *

Jupiter 99940-08-13 18:28 G 38223620.23 38223620.27 38223620.31 0.0513 0.0483

Jupiter 99940-11-10 22:04 G 38223709.30 38223709.42 38223709.54 0.0511 0.0151

Moon 99941-02-08 16:47 G 38223799.13 38223799.20 38223799.26 0.2651 0.2043

Earth 99941-02-08 16:47 G 38223799.13 38223799.20 38223799.27 0.2645 0.2029 *

Mars 99944-09-21 07:26 G 38225119.71 38225119.81 38225119.90 0.1610 0.0911

Mars 99946-08-27 08:23 G 38225824.75 38225824.85 38225824.95 0.1596 0.0842

Jupiter 99947-01-01 16:19 G 38225952.00 38225952.18 38225952.37 0.0515 0.0128

Saturn 99948-06-14 06:14 G 38226481.65 38226481.76 38226481.88 0.0273 0.0214

Saturn 99948-09-11 05:45 G 38226570.55 38226570.74 38226570.93 0.0274 0.0016

Saturn 99948-12-09 05:02 G 38226659.58 38226659.71 38226659.86 0.0275 0.0185

Uranus 99950-01-04 20:38 G 38227051.30 38227051.36 38227051.42 0.0142 0.0125

Uranus 99950-04-02 23:59 G 38227139.42 38227139.50 38227139.59 0.0142 0.0104

Uranus 99950-06-30 03:21 G 38227227.54 38227227.64 38227227.75 0.0142 0.0083

Uranus 99950-09-26 06:57 G 38227315.67 38227315.79 38227315.91 0.0142 0.0062

Uranus 99950-12-23 10:19 G 38227403.81 38227403.93 38227404.06 0.0142 0.0041

Uranus 99951-03-21 13:40 G 38227491.94 38227492.07 38227492.20 0.0142 0.0020

Uranus 99951-06-17 17:16 G 38227580.08 38227580.22 38227580.35 0.0142 0.0005

Uranus 99951-09-13 20:38 G 38227668.23 38227668.36 38227668.49 0.0142 0.0023

Venus 99951-12-08 13:40 G 38227754.00 38227754.07 38227754.14 0.3641 0.2648

Uranus 99951-12-10 23:59 G 38227756.38 38227756.50 38227756.62 0.0142 0.0044

Uranus 99952-03-08 03:21 G 38227844.53 38227844.64 38227844.76 0.0142 0.0065

Uranus 99952-06-04 06:43 G 38227932.68 38227932.78 38227932.89 0.0142 0.0086

Jupiter 99952-08-30 02:52 G 38228019.49 38228019.62 38228019.74 0.0511 0.0019

Uranus 99952-08-31 10:04 G 38228020.85 38228020.92 38228021.01 0.0142 0.0108

Uranus 99952-11-27 13:40 G 38228109.02 38228109.07 38228109.13 0.0142 0.0129

Mars 99953-04-15 12:28 G 38228247.88 38228248.02 38228248.17 0.1943 0.0894

Earth 99954-02-11 09:50 G 38228549.81 38228549.91 38228550.02 0.2644 0.0571

Moon 99954-02-11 10:19 G 38228549.82 38228549.93 38228550.03 0.2650 0.0553 *

Mars 99954-02-11 18:57 G 38228550.23 38228550.29 38228550.36 0.1614 0.1343

Mars 99956-01-17 20:09 G 38229255.23 38229255.34 38229255.46 0.1599 0.0425

Venus 99957-06-23 04:33 G 38229777.60 38229777.69 38229777.79 0.3639 0.0836

Jupiter 99958-10-20 12:43 G 38230261.85 38230262.03 38230262.21 0.0514 0.0113

Saturn 99961-07-29 15:07 G 38231275.07 38231275.13 38231275.20 0.0290 0.0246

Saturn 99961-10-26 02:38 G 38231363.49 38231363.61 38231363.73 0.0289 0.0091

Saturn 99962-01-22 13:55 G 38231451.95 38231452.08 38231452.21 0.0288 0.0062

Saturn 99962-04-21 01:11 G 38231540.46 38231540.55 38231540.63 0.0286 0.0213

Mars 99962-09-05 04:04 G 38231677.51 38231677.67 38231677.83 0.1937 0.0699

Venus 99963-01-06 19:40 G 38231801.22 38231801.32 38231801.41 0.3636 0.0995

Jupiter 99964-06-18 07:40 G 38232329.70 38232329.82 38232329.94 0.0512 0.0165

Jupiter 99964-09-15 11:02 G 38232418.92 38232418.96 38232419.01 0.0510 0.0465

Mars 99965-06-09 07:55 G 38232685.71 38232685.83 38232685.95 0.1603 0.0009

Earth 99967-02-14 03:07 G 38233300.52 38233300.63 38233300.73 0.2642 0.0916

Moon 99967-02-14 03:35 G 38233300.56 38233300.65 38233300.75 0.2643 0.1084 *

Venus 99968-07-22 10:33 G 38233824.88 38233824.94 38233825.00 0.3634 0.2789

Jupiter 99970-08-08 08:23 G 38234571.72 38234571.85 38234571.98 0.0513 0.0360

Mars 99974-10-30 19:40 G 38236116.20 38236116.32 38236116.43 0.1606 0.0439

Jupiter 99976-04-06 12:28 G 38236639.92 38236640.02 38236640.12 0.0513 0.0320

Jupiter 99976-07-04 16:04 G 38236729.07 38236729.17 38236729.27 0.0511 0.0314

Mars 99976-10-04 20:52 G 38236821.30 38236821.37 38236821.43 0.1593 0.1313

Saturn 99978-01-29 02:38 G 38237302.43 38237302.61 38237302.80 0.0274 0.0087

Saturn 99978-04-28 02:09 G 38237391.42 38237391.59 38237391.76 0.0275 0.0113

Earth 99980-02-16 20:09 G 38238051.29 38238051.34 38238051.38 0.2641 0.2393

Moon 99980-02-16 20:38 G 38238051.32 38238051.36 38238051.40 0.2638 0.2423 *

Venus 99982-05-25 16:47 G 38238880.13 38238880.20 38238880.27 0.3735 0.3344

Jupiter 99982-08-25 19:40 G 38238972.20 38238972.32 38238972.44 0.0515 0.0395

Earth 99983-08-17 12:57 G 38239328.88 38239329.04 38239329.20 0.2689 0.0587

Moon 99983-08-17 13:40 G 38239328.92 38239329.07 38239329.22 0.2696 0.0828 *

Mars 99984-03-22 07:11 G 38239546.71 38239546.80 38239546.90 0.1610 0.0867

Mars 99986-02-25 08:23 G 38240251.76 38240251.85 38240251.95 0.1596 0.0891

Moon 99987-02-09 21:35 G 38240601.32 38240601.40 38240601.48 0.2652 0.1723

Earth 99987-02-09 21:35 G 38240601.32 38240601.40 38240601.48 0.2645 0.1731 *

Jupiter 99988-01-24 17:31 G 38240950.18 38240950.23 38240950.28 0.0513 0.0473

Jupiter 99988-04-22 21:07 G 38241039.26 38241039.38 38241039.50 0.0511 0.0162

Uranus 99991-01-27 22:19 G 38242049.40 38242049.43 38242049.49 0.0136 0.0133

Saturn 99991-03-15 04:33 G 38242095.57 38242095.69 38242095.80 0.0289 0.0143

Uranus 99991-04-26 06:14 G 38242137.64 38242137.76 38242137.89 0.0136 0.0104

Saturn 99991-06-11 15:50 G 38242184.03 38242184.16 38242184.29 0.0288 0.0012

Uranus 99991-07-23 13:55 G 38242225.93 38242226.08 38242226.25 0.0136 0.0077

Saturn 99991-09-08 03:07 G 38242272.52 38242272.63 38242272.73 0.0287 0.0163

Uranus 99991-10-19 21:35 G 38242314.23 38242314.40 38242314.59 0.0136 0.0049

Uranus 99992-01-16 05:31 G 38242402.54 38242402.73 38242402.92 0.0136 0.0021

Uranus 99992-04-13 13:11 G 38242490.85 38242491.05 38242491.25 0.0136 0.0007

Uranus 99992-07-10 20:52 G 38242579.18 38242579.37 38242579.56 0.0136 0.0035

Uranus 99992-10-07 04:19 G 38242667.52 38242667.68 38242667.87 0.0136 0.0063

Mars 99992-10-14 13:26 G 38242674.92 38242675.06 38242675.20 0.1943 0.1008

Uranus 99993-01-03 12:14 G 38242755.87 38242756.01 38242756.16 0.0136 0.0090

Uranus 99993-04-01 19:40 G 38242844.24 38242844.32 38242844.43 0.0136 0.0118

Mars 99993-08-12 18:57 G 38242977.22 38242977.29 38242977.36 0.1614 0.1297

Jupiter 99994-06-13 14:52 G 38243281.94 38243282.12 38243282.30 0.0515 0.0138

Mars 99995-07-18 20:09 G 38243682.23 38243682.34 38243682.45 0.1599 0.0469

Jupiter 100000-02-10 02:09 G 38245349.47 38245349.59 38245349.72 0.0511 0.0023

Earth 100000-02-12 14:38 G 38245352.00 38245352.11 38245352.22 0.2643 0.0263

Moon 100000-02-12 15:07 G 38245352.02 38245352.13 38245352.24 0.2648 0.0171 *

101ST MILLENNIUM CE

This is a list of transits of Mercury in the 101st millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Mars 100002-03-06 04:47 G 38246104.54 38246104.70 38246104.86 0.1937 0.0596

Mars 100004-12-08 07:55 G 38247112.71 38247112.83 38247112.95 0.1603 0.0042

Neptune 100005-05-29 11:16 G 38247284.95 38247284.97 38247285.01 0.0088 0.0085

Neptune 100005-08-25 12:28 G 38247372.97 38247373.02 38247373.09 0.0088 0.0078

Neptune 100005-11-21 13:55 G 38247461.01 38247461.08 38247461.16 0.0088 0.0071

Neptune 100006-02-17 15:07 G 38247549.05 38247549.13 38247549.22 0.0088 0.0064

Jupiter 100006-04-01 11:31 G 38247591.79 38247591.98 38247592.16 0.0514 0.0099

Neptune 100006-05-16 16:04 G 38247637.09 38247637.17 38247637.28 0.0088 0.0058

Neptune 100006-08-12 17:31 G 38247725.13 38247725.23 38247725.34 0.0088 0.0051

Neptune 100006-11-08 18:43 G 38247813.18   38247813.28   38247813.40 0.0088 0.0044

Neptune 100007-02-04 20:09 G 38247901.22   38247901.34   38247901.46 0.0088 0.0037

Neptune 100007-05-03 21:21 G 38247989.27   38247989.39   38247989.52 0.0088 0.0030

Saturn   100007-06-17 23:16 G 38248034.32   38248034.47   38248034.63 0.0273 0.0157

Neptune 100007-07-30 22:33 G 38248077.32   38248077.44   38248077.57 0.0088 0.0023

Saturn   100007-09-14 22:47 G 38248123.26   38248123.45   38248123.64 0.0274 0.0041

Neptune 100007-10-26 23:45 G 38248165.36   38248165.49   38248165.62 0.0088 0.0016

Saturn   100007-12-12 21:50 G 38248212.33   38248212.41   38248212.51 0.0275 0.0242

Neptune 100008-01-23 00:57 G 38248253.41   38248253.54   38248253.68 0.0088 0.0010

Neptune 100008-04-20 02:23 G 38248341.47   38248341.60   38248341.73 0.0088 0.0003

Venus   100008-07-14 11:02 G 38248426.88   38248426.96   38248427.04 0.3640 0.2001

Neptune 100008-07-17 03:35 G 38248429.52   38248429.65   38248429.78 0.0088 0.0005

Neptune 100008-10-13 04:47 G 38248517.57   38248517.70   38248517.83 0.0088 0.0011

Neptune 100009-01-09 05:59 G 38248605.62   38248605.75   38248605.88 0.0088 0.0018

Neptune 100009-04-07 07:11 G 38248693.68   38248693.80   38248693.93 0.0088 0.0025

Neptune 100009-07-04 08:23 G 38248781.73   38248781.85   38248781.98 0.0088 0.0032

Neptune 100009-09-30 09:35 G 38248869.79   38248869.90   38248870.03 0.0088 0.0039

Neptune 100009-12-27 10:47 G 38248957.85   38248957.95   38248958.07 0.0088 0.0046

Neptune 100010-03-25 11:59 G 38249045.91   38249046.00   38249046.12 0.0088 0.0053

Neptune 100010-06-21 13:26 G 38249133.97   38249134.06   38249134.16 0.0088 0.0060

Neptune 100010-09-17 14:38 G 38249222.03   38249222.11   38249222.20 0.0088 0.0066

Neptune 100010-12-14 15:35 G 38249310.10   38249310.15   38249310.24 0.0088 0.0074

Neptune 100011-03-12 17:16 G 38249398.17   38249398.22   38249398.27 0.0088 0.0080

Neptune 100011-06-08 18:28 G 38249486.26   38249486.27   38249486.29 0.0088 0.0087

Jupiter 100011-11-29 06:57 G 38249659.67   38249659.79   38249659.91 0.0512 0.0147

Jupiter 100012-02-26 10:19 G 38249748.90   38249748.93   38249748.97 0.0510 0.0481

Earth   100013-02-14 07:40 G 38250102.73   38250102.82   38250102.92 0.2642 0.1218

Moon   100013-02-14 08:23 G 38250102.76   38250102.85   38250102.95 0.2643 0.1282 *

Venus   100014-01-28 01:55 G 38250450.48   38250450.58   38250450.68 0.3638 0.0201

Mars   100014-04-30 19:40 G 38250543.20   38250543.32   38250543.43 0.1606 0.0388

Mars 100016-04-04 20:52 G 38251248.31 38251248.37 38251248.42 0.1593 0.1365

Moon 100016-08-14 10:19 G 38251379.87 38251379.93 38251380.00 0.2695 0.2466

Earth 100016-08-14 10:19 G 38251379.88 38251379.93 38251379.99 0.2688 0.2497 *

Jupiter 100018-01-18 07:55 G 38251901.69 38251901.83 38251901.97 0.0514 0.0336

Venus 100019-08-13 16:47 G 38252474.12 38252474.20 38252474.29 0.3636 0.1634

Saturn 100020-08-01 05:16 G 38252827.64 38252827.72 38252827.82 0.0290 0.0206

Saturn 100020-10-28 16:47 G 38252916.07 38252916.20 38252916.33 0.0289 0.0051

Saturn 100021-01-25 04:04 G 38253004.55 38253004.67 38253004.79 0.0288 0.0102

Saturn 100021-04-23 15:21 G 38253093.08 38253093.14 38253093.20 0.0286 0.0253

Jupiter 100023-09-17 11:45 G 38253969.89 38253969.99 38253970.09 0.0512 0.0304

Mars 100023-09-21 07:11 G 38253973.70 38253973.80 38253973.90 0.1610 0.0818

Jupiter 100023-12-15 15:21 G 38254059.04 38254059.14 38254059.24 0.0510 0.0328

Venus 100025-02-26 07:55 G 38254497.79 38254497.83 38254497.86 0.3633 0.3420

Mars 100025-08-26 08:23 G 38254678.76 38254678.85 38254678.95 0.1596 0.0943

Earth 100029-08-17 19:55 G 38256131.19 38256131.33 38256131.47 0.2690 0.1293

Moon 100029-08-17 20:52 G 38256131.23 38256131.37 38256131.51 0.2696 0.1325 *

Jupiter 100030-02-04 18:57 G 38256302.19 38256302.29 38256302.40 0.0515 0.0419

Pluto 100031-07-28 20:09 G 38256841.34 38256841.34 38256841.40 0.0060 0.0060

Pluto 100031-10-24 21:35 G 38256929.31 38256929.40 38256929.53 0.0060 0.0049

Pluto 100032-01-20 22:47 G 38257017.33 38257017.45 38257017.62 0.0060 0.0040

Mars 100032-04-14 14:09 G 38257101.96 38257102.09 38257102.23 0.1943 0.1130

Pluto 100032-04-18 00:14 G 38257105.36 38257105.51 38257105.69 0.0060 0.0029

Pluto 100032-07-15 01:55 G 38257193.40 38257193.58 38257193.76 0.0060 0.0019

Pluto 100032-10-11 03:07 G 38257281.44 38257281.63 38257281.82 0.0060 0.0009

Pluto 100033-01-07 04:19 G 38257369.49 38257369.68 38257369.87 0.0061 0.0002

Moon 100033-02-10 02:23 G 38257403.51 38257403.60 38257403.69 0.2652 0.1456

Earth 100033-02-10 02:23 G 38257403.51 38257403.60 38257403.69 0.2645 0.1435 *

Mars 100033-02-10 18:57 G 38257404.22 38257404.29 38257404.36 0.1614 0.1250

Pluto 100033-04-05 05:31 G 38257457.55 38257457.73 38257457.92 0.0061 0.0012

Pluto 100033-07-02 06:57 G 38257545.61 38257545.79 38257545.97 0.0061 0.0022

Pluto 100033-09-28 07:40 G 38257633.68 38257633.82 38257634.00 0.0061 0.0033

Pluto 100033-12-25 08:52 G 38257721.76 38257721.87 38257722.03 0.0061 0.0043

Uranus 100034-01-25 03:21 G 38257752.59 38257752.64 38257752.72 0.0142 0.0122

Pluto 100034-03-23 10:19 G 38257809.86 38257809.93 38257810.04 0.0061 0.0053

Uranus 100034-04-23 06:57 G 38257840.70 38257840.79 38257840.89 0.0142 0.0101

Uranus 100034-07-20 10:19 G 38257928.83 38257928.93 38257929.04 0.0142 0.0080

Uranus 100034-10-16 13:55 G 38258016.96 38258017.08 38258017.20 0.0142 0.0059

Uranus 100035-01-12 17:16 G 38258105.09 38258105.22 38258105.35 0.0142 0.0038

Mars 100035-01-16 20:09 G 38258109.23 38258109.34 38258109.45 0.1599 0.0516

Uranus 100035-04-10 20:38 G 38258193.23 38258193.36 38258193.49 0.0142 0.0017

Jupiter 100035-07-06 16:33 G 38258280.14 38258280.19 38258280.25 0.0513 0.0460

Uranus 100035-07-07 23:59 G 38258281.37 38258281.50 38258281.64 0.0142 0.0007

Jupiter 100035-10-03 20:23 G 38258369.23 38258369.35 38258369.46 0.0511 0.0176

Uranus 100035-10-04 03:35 G 38258369.52 38258369.65 38258369.78 0.0142 0.0026

Uranus 100035-12-31 06:57 G 38258457.67 38258457.79 38258457.91 0.0142 0.0047

Uranus 100036-03-28 10:19 G 38258545.82 38258545.93 38258546.05 0.0142 0.0068

Uranus 100036-06-24 13:40 G 38258633.97 38258634.07 38258634.18 0.0142 0.0089

Uranus 100036-09-20 17:16 G 38258722.14 38258722.22 38258722.30 0.0142 0.0110

Saturn 100036-11-03 20:23 G 38258766.24 38258766.35 38258766.45 0.0273 0.0227

Uranus 100036-12-17 20:38 G 38258810.32 38258810.36 38258810.41 0.0142 0.0132

Saturn 100037-01-31 19:40 G 38258855.13 38258855.32 38258855.51 0.0274 0.0030

Saturn 100037-04-30 18:43 G 38258944.14 38258944.28 38258944.44 0.0275 0.0170

Venus 100038-12-30 20:09 G 38259553.18 38259553.34 38259553.50 0.3736 0.0810

Mars 100041-09-04 05:59 G 38260531.58 38260531.75 38260531.91 0.1937 0.0453

Jupiter 100041-11-23 14:52 G 38260611.95 38260612.12 38260612.30 0.0514 0.0173

Mars 100044-06-08 07:55 G 38261539.71 38261539.83 38261539.94 0.1602 0.0098

Earth 100046-02-12 19:26 G 38262154.20 38262154.31 38262154.42 0.2643 0.0059

Moon 100046-02-12 19:55 G 38262154.22 38262154.33 38262154.44 0.2647 0.0142 *

Jupiter 100047-07-23 01:26 G 38262679.43 38262679.56 38262679.68 0.0511 0.0027

Saturn 100049-12-19 06:57 G 38263559.74 38263559.79 38263559.85 0.0291 0.0261

Saturn 100050-03-17 18:28 G 38263648.15 38263648.27 38263648.39 0.0289 0.0104

Saturn 100050-06-14 05:45 G 38263736.62 38263736.74 38263736.87 0.0288 0.0051

Saturn 100050-09-10 17:02 G 38263825.12 38263825.21 38263825.31 0.0287 0.0202

Jupiter 100053-09-11 10:04 G 38264921.73 38264921.92 38264922.10 0.0514 0.0088

Mars 100053-10-29 19:26 G 38264970.20 38264970.31 38264970.43 0.1606 0.0340

Mars 100055-10-04 20:38 G 38265675.31 38265675.36 38265675.42 0.1593 0.1416

Earth 100059-02-15 12:28 G 38266904.93 38266905.02 38266905.11 0.2642 0.1516

Moon 100059-02-15 13:11 G 38266904.96 38266905.05 38266905.13 0.2642 0.1666 *

Jupiter 100059-05-11 06:28 G 38266989.65 38266989.77 38266989.90 0.0512 0.0124

Venus 100059-08-05 17:16 G 38267076.18 38267076.22 38267076.27 0.3642 0.3185

Jupiter 100059-08-08 09:50 G 38267078.90 38267078.91 38267078.93 0.0510 0.0503

Earth 100062-08-15 17:31 G 38268182.11 38268182.23 38268182.35 0.2688 0.1778

Moon 100062-08-15 17:45 G 38268182.12 38268182.24 38268182.36 0.2695 0.1752 *

Mars 100063-03-22 07:11 G 38268400.70 38268400.80 38268400.90 0.1610 0.0768

Venus 100065-02-18 08:23 G 38269099.75 38269099.85 38269099.94 0.3640 0.1360

Mars 100065-02-24 08:23 G 38269105.76 38269105.85 38269105.94 0.1596 0.0991

Jupiter 100065-06-30 06:43 G 38269231.63 38269231.78 38269231.92 0.0514 0.0323

Earth 100066-02-08 13:55 G 38269455.07 38269455.08 38269455.10 0.2646 0.2602

Saturn 100066-06-20 16:19 G 38269587.00 38269587.18 38269587.36 0.0273 0.0100

Saturn 100066-09-17 15:35 G 38269675.97 38269676.15 38269676.33 0.0274 0.0098

Venus 100070-09-03 23:16 G 38271123.37 38271123.47 38271123.57 0.3637 0.0458

Jupiter 100071-02-27 11:16 G 38271299.86 38271299.97 38271300.07 0.0512 0.0284

Jupiter 100071-05-27 14:38 G 38271389.02 38271389.11 38271389.21 0.0510 0.0346

Mars 100071-10-14 15:21 G 38271529.02 38271529.14 38271529.27 0.1944 0.1271

Mars 100072-08-11 18:57 G 38271831.21 38271831.29 38271831.36 0.1613 0.1200

Mars 100074-07-17 20:09 G 38272536.23 38272536.34 38272536.45 0.1599 0.0570

Uranus 100075-02-17 05:16 G 38272750.66 38272750.72 38272750.80 0.0136 0.0127

Uranus 100075-05-16 13:11 G 38272838.91 38272839.05 38272839.18 0.0136 0.0099

Uranus 100075-08-12 20:38 G 38272927.20 38272927.36 38272927.54 0.0136 0.0071

Earth 100075-08-19 02:52 G 38272933.51 38272933.62 38272933.73 0.2690 0.2002

Moon 100075-08-19 04:04 G 38272933.58 38272933.67 38272933.75 0.2695 0.2261 *

Uranus 100075-11-09 04:33 G 38273015.51 38273015.69 38273015.88 0.0136 0.0043

Uranus 100076-02-05 12:14 G 38273103.82 38273104.01 38273104.21 0.0136 0.0015

Venus 100076-03-19 14:09 G 38273147.01 38273147.09 38273147.17 0.3635 0.2258

Uranus 100076-05-03 19:55 G 38273192.14 38273192.33 38273192.53 0.0136 0.0013

Uranus 100076-07-31 03:35 G 38273280.47 38273280.65 38273280.84 0.0136 0.0041

Uranus 100076-10-27 11:02 G 38273368.81 38273368.96 38273369.14 0.0136 0.0069

Uranus 100077-01-23 18:57 G 38273457.16 38273457.29 38273457.43 0.0136 0.0096

Uranus 100077-04-22 02:23 G 38273545.54 38273545.60 38273545.69 0.0136 0.0124

Jupiter 100077-07-17 18:43 G 38273632.19 38273632.28 38273632.37 0.0515 0.0445

Moon 100079-02-11 07:11 G 38274205.70 38274205.80 38274205.90 0.2651 0.1077

Earth 100079-02-11 06:57 G 38274205.70 38274205.79 38274205.89 0.2644 0.1140 *

Saturn 100079-08-04 19:11 G 38274380.20 38274380.30 38274380.41 0.0290 0.0170

Saturn 100079-11-01 06:43 G 38274468.65 38274468.78 38274468.91 0.0289 0.0015

Saturn 100080-01-28 17:59 G 38274557.14 38274557.25 38274557.36 0.0288 0.0138

Mars 100081-03-05 06:43 G 38274958.62 38274958.78 38274958.95 0.1937 0.0335

Jupiter 100082-12-16 16:04 G 38275610.10 38275610.17 38275610.23 0.0513 0.0442

Jupiter 100083-03-15 19:40 G 38275699.20 38275699.32 38275699.43 0.0511 0.0192

Mars 100083-12-08 07:55 G 38275966.71 38275966.83 38275966.94 0.1602 0.0153

Jupiter 100089-05-05 14:23 G 38277941.93 38277942.10 38277942.28 0.0515 0.0197

Neptune 100089-05-06 00:28 G 38277942.47 38277942.52 38277942.59 0.0090 0.0085

Neptune 100089-08-02 04:33 G 38278030.58 38278030.69 38278030.80 0.0090 0.0074

Neptune 100089-10-29 08:23 G 38278118.71 38278118.85 38278118.99 0.0090 0.0063

Neptune 100090-01-25 11:45 G 38278206.85 38278206.99 38278207.17 0.0090 0.0053

Neptune 100090-04-23 15:35 G 38278294.99 38278295.15 38278295.34 0.0090 0.0042

Neptune 100090-07-20 19:40 G 38278383.14 38278383.32 38278383.51 0.0090 0.0030

Mars 100090-07-25 22:04 G 38278388.42 38278388.42 38278388.42 0.1931 0.1930

Neptune 100090-10-16 23:31 G 38278471.30 38278471.48 38278471.68 0.0090 0.0020

Neptune 100091-01-13 03:21 G 38278559.45 38278559.64 38278559.85 0.0090 0.0009

Neptune 100091-04-11 07:26 G 38278647.61 38278647.81 38278648.01 0.0090 0.0003

Neptune 100091-07-08 11:16 G 38278735.77 38278735.97 38278736.16 0.0090 0.0014

Neptune 100091-10-04 14:52 G 38278823.94 38278824.12 38278824.32 0.0090 0.0025

Neptune 100091-12-31 18:43 G 38278912.11 38278912.28 38278912.47 0.0090 0.0036

Earth 100092-02-13 23:59 G 38278956.40 38278956.50 38278956.61 0.2643 0.0352

Moon 100092-02-14 00:43 G 38278956.42 38278956.53 38278956.64 0.2646 0.0418 *

Neptune 100092-03-28 22:33 G 38279000.28 38279000.44 38279000.61 0.0090 0.0047

Neptune 100092-06-25 02:09 G 38279088.46 38279088.59 38279088.76 0.0090 0.0058

Neptune 100092-09-21 05:59 G 38279176.64 38279176.75 38279176.89 0.0090 0.0069

Neptune 100092-12-18 09:35 G 38279264.83 38279264.90 38279265.01 0.0090 0.0080

Mars 100093-04-29 19:26 G 38279397.20 38279397.31 38279397.43 0.1606 0.0290

Jupiter 100095-01-02 00:28 G 38280009.40 38280009.52 38280009.65 0.0512 0.0039

Mars 100095-04-04 20:38 G 38280102.32 38280102.36 38280102.40 0.1593 0.1464

Venus 100095-08-06 23:31 G 38280226.33 38280226.48 38280226.62 0.3737 0.1760

Saturn 100095-11-07 13:11 G 38280318.91 38280319.05 38280319.20 0.0273 0.0171

Saturn 100096-02-04 12:28 G 38280407.83 38280408.02 38280408.21 0.0274 0.0027

Saturn 100096-05-03 11:45 G 38280496.89 38280496.99 38280497.10 0.0275 0.0226

Jupiter 100101-02-22 10:19 G 38282251.74 38282251.93 38282252.12 0.0514 0.0050

Mars 100102-09-21 07:11 G 38282827.70 38282827.80 38282827.90 0.1610 0.0720

Mars 100104-08-26 08:23 G 38283532.76 38283532.85 38283532.94 0.1596 0.1041

Earth 100105-02-16 17:02 G 38283707.14 38283707.21 38283707.29 0.2642 0.1820

Moon 100105-02-16 17:45 G 38283707.17 38283707.24 38283707.31 0.2640 0.1903 *

Jupiter 100106-10-22 05:45 G 38284319.61 38284319.74 38284319.86 0.0512 0.0112

Earth 100108-08-17 00:14 G 38284984.37 38284984.51 38284984.66 0.2688 0.1073

Moon 100108-08-17 00:43 G 38284984.38 38284984.53 38284984.68 0.2696 0.1043 *

Saturn 100108-12-22 20:52 G 38285112.29 38285112.37 38285112.45 0.0291 0.0225

Saturn 100109-03-21 08:23 G 38285200.72 38285200.85 38285200.97 0.0289 0.0069

Saturn 100109-06-17 19:40 G 38285289.20 38285289.32 38285289.44 0.0288 0.0086

Saturn 100109-09-14 06:57 G 38285377.72 38285377.79 38285377.86 0.0287 0.0238

Mars 100111-04-15 16:04 G 38285956.05 38285956.17 38285956.29 0.1943 0.1376

Moon 100112-02-10 18:28 G 38286257.22 38286257.27 38286257.32 0.2652 0.2280

Earth 100112-02-10 18:43 G 38286257.23 38286257.28 38286257.33 0.2645 0.2301 *

Mars 100112-02-11 18:57 G 38286258.21 38286258.29 38286258.37 0.1614 0.1156

Jupiter 100112-12-11 05:16 G 38286561.57 38286561.72 38286561.87 0.0514 0.0312

Mars 100114-01-16 20:09 G 38286963.23 38286963.34 38286963.44 0.1599 0.0619

Venus 100116-03-12 14:38 G 38287749.04 38287749.11 38287749.18 0.3641 0.2537

Uranus 100117-11-19 07:26 G 38288365.78 38288365.81 38288365.83 0.0142 0.0138

Uranus 100118-02-15 10:33 G 38288453.88 38288453.94 38288454.02 0.0142 0.0118

Uranus 100118-05-14 13:55 G 38288542.00 38288542.08 38288542.19 0.0142 0.0097

Jupiter 100118-08-10 10:47 G 38288629.84 38288629.95 38288630.06 0.0512 0.0261

Uranus 100118-08-10 17:31 G 38288630.12 38288630.23 38288630.34 0.0142 0.0075

Uranus 100118-11-06 20:52 G 38288718.26 38288718.37 38288718.50 0.0142 0.0055

Jupiter 100118-11-07 14:23 G 38288719.01 38288719.10 38288719.18 0.0510 0.0369

Uranus 100119-02-03 00:28 G 38288806.39 38288806.52 38288806.65 0.0142 0.0033

Uranus 100119-05-02 03:50 G 38288894.53 38288894.66 38288894.79 0.0142 0.0012

Uranus 100119-07-29 07:11 G 38288982.67 38288982.80 38288982.93 0.0142 0.0009

Uranus 100119-10-25 10:33 G 38289070.82 38289070.94 38289071.07 0.0142 0.0030

Uranus 100120-01-21 14:09 G 38289158.97 38289159.09 38289159.21 0.0142 0.0051

Uranus 100120-04-18 17:31 G 38289247.12 38289247.23 38289247.34 0.0142 0.0072

Uranus 100120-07-15 20:52 G 38289335.28 38289335.37 38289335.47 0.0142 0.0093

Mars 100120-09-04 07:40 G 38289385.65 38289385.82 38289385.98 0.1938 0.0223

Uranus 100120-10-12 00:14 G 38289423.44 38289423.51 38289423.59 0.0142 0.0115

Uranus 100121-01-08 03:50 G 38289511.62 38289511.66 38289511.69 0.0142 0.0136

Mars 100121-07-04 06:28 G 38289688.76 38289688.77 38289688.79 0.1617 0.1588

Venus 100121-09-26 05:31 G 38289772.63 38289772.73 38289772.83 0.3639 0.0728

Mars 100123-06-09 07:55 G 38290393.71 38290393.83 38290393.94 0.1602 0.0201

Jupiter 100124-12-28 17:16 G 38290962.14 38290962.22 38290962.31 0.0516 0.0456

Earth 100125-02-12 11:45 G 38291007.89 38291007.99 38291008.09 0.2644 0.0831

Moon 100125-02-12 11:59 G 38291007.90 38291008.00 38291008.11 0.2650 0.0842 *

Saturn 100125-03-27 10:19 G 38291050.85 38291050.93 38291051.03 0.0272 0.0236

Saturn 100125-06-24 09:35 G 38291139.71 38291139.90 38291140.09 0.0273 0.0041

Saturn 100125-09-21 08:52 G 38291228.72 38291228.87 38291229.03 0.0274 0.0158

Pluto 100126-02-02 18:14 G 38291363.20 38291363.26 38291363.35 0.0084 0.0069

Pluto 100126-05-01 19:55 G 38291451.22 38291451.33 38291451.44 0.0084 0.0049

Pluto 100126-07-28 21:07 G 38291539.25 38291539.38 38291539.51 0.0084 0.0030

Pluto 100126-10-24 22:19 G 38291627.30 38291627.43 38291627.57 0.0083 0.0010

Pluto 100127-01-20 23:31 G 38291715.35 38291715.48 38291715.62 0.0083 0.0009

Venus 100127-04-11 20:38 G 38291796.26 38291796.36 38291796.45 0.3637 0.1097

Pluto 100127-04-19 00:43 G 38291803.40 38291803.53 38291803.66 0.0083 0.0028

Pluto 100127-07-16 01:40 G 38291891.47 38291891.57 38291891.69 0.0083 0.0047

Pluto 100127-10-12 02:52 G 38291979.55 38291979.62 38291979.72 0.0083 0.0066

Mars 100130-01-24 23:16 G 38292815.41 38292815.47 38292815.53 0.1931 0.1794

Jupiter 100130-05-29 15:21 G 38292940.08 38292940.14 38292940.22 0.0513 0.0422

Jupiter 100130-08-26 18:57 G 38293029.18 38293029.29 38293029.41 0.0510 0.0212

Venus 100132-10-25 11:31 G 38293819.92 38293819.98 38293820.04 0.3635 0.2879

Mars 100132-10-29 19:26 G 38293824.20 38293824.31 38293824.43 0.1606 0.0238

Mars 100134-10-04 20:38 G 38294529.33 38294529.36 38294529.40 0.1593 0.1518

Jupiter 100136-10-16 13:40 G 38295271.91 38295272.07 38295272.24 0.0515 0.0219

Earth 100138-02-15 04:47 G 38295758.60 38295758.70 38295758.81 0.2643 0.0639

Moon 100138-02-15 05:31 G 38295758.62 38295758.73 38295758.83 0.2646 0.0785 *

Saturn 100138-05-11 21:35 G 38295844.40 38295844.40 38295844.41 0.0291 0.0291

Saturn 100138-08-08 09:07 G 38295932.77 38295932.88 38295933.00 0.0290 0.0133

Saturn 100138-11-04 20:38 G 38296021.23 38296021.36 38296021.49 0.0289 0.0022

Saturn 100139-02-01 07:55 G 38296109.73 38296109.83 38296109.93 0.0288 0.0175

Mars 100142-03-22 07:11 G 38297254.69 38297254.80 38297254.90 0.1609 0.0673

Jupiter 100142-06-14 23:59 G 38297339.37 38297339.50 38297339.62 0.0511 0.0058

Mars 100144-02-25 08:23 G 38297959.76 38297959.85 38297959.93 0.1596 0.1095

Jupiter 100148-08-04 09:35 G 38299581.71 38299581.90 38299582.09 0.0514 0.0029

Mars 100150-10-14 17:02 G 38300383.11 38300383.21 38300383.31 0.1944 0.1510

Earth 100151-02-17 21:50 G 38300509.35 38300509.41 38300509.48 0.2642 0.2119

Moon 100151-02-17 22:33 G 38300509.38 38300509.44 38300509.49 0.2638 0.2194 *

Mars 100151-08-12 18:43 G 38300685.20 38300685.28 38300685.37 0.1613 0.1108

Mars 100153-07-17 20:09 G 38301390.23 38301390.34 38301390.44 0.1599 0.0670

Jupiter 100154-04-03 04:47 G 38301649.57 38301649.70 38301649.82 0.0512 0.0101

Earth 100154-08-18 07:26 G 38301786.65 38301786.81 38301786.97 0.2689 0.0345

Moon 100154-08-18 07:55 G 38301786.67 38301786.83 38301786.99 0.2695 0.0214 *

Saturn 100154-11-11 06:57 G 38301871.61 38301871.79 38301871.96 0.0273 0.0109

Saturn 100155-02-08 05:59 G 38301960.57 38301960.75 38301960.94 0.0274 0.0089

Moon 100158-02-10 23:16 G 38303059.41 38303059.47 38303059.54 0.2652 0.2092

Earth 100158-02-10 23:31 G 38303059.41 38303059.48 38303059.55 0.2645 0.2001 *

Uranus 100159-03-10 12:14 G 38303451.92 38303452.01 38303452.10 0.0136 0.0121

Uranus 100159-06-06 19:40 G 38303540.19 38303540.32 38303540.47 0.0136 0.0093

Uranus 100159-09-03 03:21 G 38303628.48 38303628.64 38303628.83 0.0136 0.0066

Uranus 100159-11-30 11:16 G 38303716.79 38303716.97 38303717.16 0.0136 0.0037

Uranus 100160-02-26 19:11 G 38303805.10 38303805.30 38303805.49 0.0136 0.0009

Mars 100160-03-05 08:38 G 38303812.69 38303812.86 38303813.03 0.1938 0.0087

Jupiter 100160-05-23 05:31 G 38303891.57 38303891.73 38303891.89 0.0514 0.0274

Uranus 100160-05-25 02:52 G 38303893.42 38303893.62 38303893.81 0.0136 0.0019

Uranus 100160-08-21 10:19 G 38303981.76 38303981.93 38303982.12 0.0136 0.0047

Uranus 100160-11-17 18:14 G 38304070.10 38304070.26 38304070.42 0.0136 0.0074

Mars 100161-01-02 06:28 G 38304115.74 38304115.77 38304115.80 0.1618 0.1543

Uranus 100161-02-14 01:40 G 38304158.45 38304158.57 38304158.71 0.0136 0.0102

Uranus 100161-05-13 09:21 G 38304246.85 38304246.89 38304246.96 0.0136 0.0130

Mars 100162-12-08 07:40 G 38304820.71 38304820.82 38304820.94 0.1602 0.0242

Jupiter 100166-01-20 09:50 G 38305959.80 38305959.91 38305960.02 0.0512 0.0250

Jupiter 100166-04-19 13:26 G 38306048.98 38306049.06 38306049.14 0.0510 0.0380

Saturn 100167-12-26 10:47 G 38306664.85 38306664.95 38306665.05 0.0290 0.0187

Saturn 100168-03-23 22:19 G 38306753.30 38306753.43 38306753.56 0.0289 0.0032

Saturn 100168-06-20 09:35 G 38306841.78 38306841.90 38306842.02 0.0288 0.0123

Saturn 100168-09-16 20:52 G 38306930.34 38306930.37 38306930.41 0.0287 0.0274

Mars 100169-07-25 23:45 G 38307242.41 38307242.49 38307242.57 0.1931 0.1699

Neptune 100170-02-24 11:02 G 38307455.92 38307455.96 38307456.01 0.0088 0.0082

Neptune 100170-05-23 12:14 G 38307543.95 38307544.01 38307544.09 0.0088 0.0075

Neptune 100170-08-19 13:40 G 38307631.99 38307632.07 38307632.15 0.0088 0.0068

Neptune 100170-11-15 14:52 G 38307720.03 38307720.12 38307720.22 0.0088 0.0061

Neptune 100171-02-11 15:50 G 38307808.07 38307808.16 38307808.28 0.0088 0.0055

Earth 100171-02-13 16:33 G 38307810.08 38307810.19 38307810.29 0.2644 0.0532

Moon 100171-02-13 17:02 G 38307810.10 38307810.21 38307810.31 0.2649 0.0409 *

Neptune 100171-05-10 17:16 G 38307896.12 38307896.22 38307896.34 0.0088 0.0048

Neptune 100171-08-06 18:28 G 38307984.16 38307984.27 38307984.39 0.0088 0.0041

Neptune 100171-11-02 19:55 G 38308072.21 38308072.33 38308072.45 0.0088 0.0034

Neptune 100172-01-29 21:07 G 38308160.26 38308160.38 38308160.51 0.0088 0.0027

Neptune 100172-04-26 22:19 G 38308248.30 38308248.43 38308248.56 0.0088 0.0020

Mars 100172-04-29 19:26 G 38308251.19 38308251.31 38308251.42 0.1606 0.0192

Jupiter 100172-06-09 15:35 G 38308292.07 38308292.15 38308292.23 0.0516 0.0463

Neptune 100172-07-23 23:31 G 38308336.35 38308336.48 38308336.61 0.0088 0.0013

Venus 100172-10-17 11:59 G 38308421.91 38308422.00 38308422.08 0.3641 0.1906

Neptune 100172-10-20 00:43 G 38308424.40 38308424.53 38308424.67 0.0088 0.0007

Neptune 100173-01-16 02:09 G 38308512.45 38308512.59 38308512.72 0.0088 0.0002

Neptune 100173-04-14 03:21 G 38308600.51 38308600.64 38308600.77 0.0088 0.0007

Neptune 100173-07-11 04:33 G 38308688.56 38308688.69 38308688.82 0.0088 0.0014

Neptune 100173-10-07 05:45 G 38308776.61 38308776.74 38308776.87 0.0088 0.0021

Neptune 100174-01-03 06:57 G 38308864.67 38308864.79 38308864.92 0.0088 0.0028

Neptune 100174-04-01 08:09 G 38308952.73 38308952.84 38308952.97 0.0088 0.0035

Mars 100174-04-04 20:38 G 38308956.34 38308956.36 38308956.38 0.1593 0.1568

Neptune 100174-06-28 09:21 G 38309040.78 38309040.89 38309041.01 0.0088 0.0042

Neptune 100174-09-24 10:33 G 38309128.84 38309128.94 38309129.06 0.0088 0.0049

Neptune 100174-12-21 11:45 G 38309216.90 38309216.99 38309217.10 0.0088 0.0056

Neptune 100175-03-19 12:57 G 38309304.96 38309305.04 38309305.15 0.0088 0.0063

Neptune 100175-06-15 14:09 G 38309393.03 38309393.09 38309393.18 0.0088 0.0070

Neptune 100175-09-11 15:35 G 38309481.09 38309481.15 38309481.22 0.0088 0.0076

Neptune 100175-12-08 16:47 G 38309569.17 38309569.20 38309569.25 0.0088 0.0083

Jupiter 100177-11-08 14:52 G 38310270.05 38310270.12 38310270.20 0.0513 0.0400

Jupiter 100178-02-05 18:28 G 38310359.16 38310359.27 38310359.39 0.0510 0.0233

Venus 100178-05-03 02:52 G 38310445.52 38310445.62 38310445.72 0.3638 0.0086

Mars 100181-09-20 07:11 G 38311681.69 38311681.80 38311681.91 0.1609 0.0621

Mars 100183-08-26 08:23 G 38312386.77 38312386.85 38312386.93 0.1596 0.1145

Venus 100183-11-16 17:45 G 38312469.15 38312469.24 38312469.33 0.3636 0.1713

Earth 100184-02-16 09:35 G 38312560.80 38312560.90 38312561.00 0.2643 0.0949

Moon 100184-02-16 10:04 G 38312560.82 38312560.92 38312561.02 0.2645 0.1011 *

Jupiter 100184-03-28 11:59 G 38312601.83 38312602.00 38312602.17 0.0515 0.0224

Saturn 100184-03-30 04:19 G 38312603.54 38312603.68 38312603.84 0.0272 0.0171

Saturn 100184-06-27 03:35 G 38312692.46 38312692.65 38312692.85 0.0273 0.0026

Saturn 100184-09-24 02:38 G 38312781.52 38312781.61 38312781.73 0.0274 0.0224

Venus 100189-06-01 08:38 G 38314492.84 38314492.86 38314492.89 0.3634 0.3501

Jupiter 100189-11-24 23:16 G 38314669.34 38314669.47 38314669.59 0.0511 0.0074

Mars 100190-04-14 17:59 G 38314810.17 38314810.25 38314810.34 0.1944 0.1646

Mars 100191-02-10 18:43 G 38315112.20 38315112.28 38315112.37 0.1613 0.1057

Mars 100193-01-15 20:09 G 38315817.23 38315817.34 38315817.44 0.1599 0.0722

Jupiter 100196-01-15 08:38 G 38316911.67 38316911.86 38316912.04 0.0515 0.0017

Earth 100197-02-18 02:38 G 38317311.57 38317311.61 38317311.65 0.2642 0.2424

Moon 100197-02-18 03:07 G 38317311.61 38317311.63 38317311.66 0.2637 0.2537 *

Saturn 100197-05-14 11:45 G 38317396.93 38317396.99 38317397.06 0.0291 0.0251

Saturn 100197-08-10 23:16 G 38317485.35 38317485.47 38317485.60 0.0290 0.0094

Saturn 100197-11-07 10:47 G 38317573.82 38317573.95 38317574.08 0.0289 0.0062

Saturn 100198-02-03 22:04 G 38317662.34 38317662.42 38317662.51 0.0288 0.0215

Mars 100199-09-04 09:35 G 38318239.73 38318239.90 38318240.07 0.1938 0.0042

Mars 100200-07-04 06:28 G 38318542.73 38318542.77 38318542.81 0.1617 0.1496

Earth 100200-08-19 14:23 G 38318588.94 38318589.10 38318589.26 0.2689 0.0367

Moon 100200-08-19 15:21 G 38318588.98 38318589.14 38318589.30 0.2694 0.0423 *

Jupiter 100201-09-14 04:04 G 38318979.54 38318979.67 38318979.79 0.0512 0.0086

Uranus 100201-12-10 14:52 G 38319067.07 38319067.12 38319067.16 0.0142 0.0132

Uranus 100202-03-08 18:14 G 38319155.18 38319155.26 38319155.34 0.0142 0.0111

Uranus 100202-06-04 21:35 G 38319243.30 38319243.40 38319243.50 0.0142 0.0090

Mars 100202-06-09 07:40 G 38319247.71 38319247.82 38319247.94 0.1602 0.0291

Uranus 100202-09-01 00:57 G 38319331.43 38319331.54 38319331.66 0.0142 0.0069

Uranus 100202-11-28 04:33 G 38319419.56 38319419.69 38319419.81 0.0142 0.0048

Uranus 100203-02-24 07:55 G 38319507.70 38319507.83 38319507.96 0.0142 0.0027

Venus 100203-04-05 16:19 G 38319548.03 38319548.18 38319548.33 0.3735 0.1333

Uranus 100203-05-23 11:16 G 38319595.84 38319595.97 38319596.10 0.0142 0.0007

Uranus 100203-08-19 14:38 G 38319683.99 38319684.11 38319684.25 0.0142 0.0016

Uranus 100203-11-15 18:14 G 38319772.13 38319772.26 38319772.38 0.0142 0.0036

Uranus 100204-02-11 21:35 G 38319860.28 38319860.40 38319860.52 0.0142 0.0057

Moon 100204-02-13 04:04 G 38319861.59 38319861.67 38319861.76 0.2651 0.1674

Earth 100204-02-13 04:19 G 38319861.59 38319861.68 38319861.76 0.2645 0.1708 *

Uranus 100204-05-10 00:57 G 38319948.43 38319948.54 38319948.65 0.0142 0.0078

Uranus 100204-08-06 04:19 G 38320036.59 38320036.68 38320036.78 0.0142 0.0100

Uranus 100204-11-02 07:55 G 38320124.76 38320124.83 38320124.90 0.0142 0.0121

Uranus 100205-01-29 11:16 G 38320212.97 38320212.97 38320212.98 0.0142 0.0142

Jupiter 100207-11-04 04:19 G 38321221.52 38321221.68 38321221.85 0.0514 0.0258

Mars 100209-01-25 00:57 G 38321669.44 38321669.54 38321669.64 0.1932 0.1558

Mars 100211-10-30 19:26 G 38322678.19 38322678.31 38322678.42 0.1606 0.0149

Jupiter 100213-07-03 08:52 G 38323289.75 38323289.87 38323289.98 0.0512 0.0243

Saturn 100213-08-18 01:55 G 38323335.50 38323335.58 38323335.69 0.0272 0.0236

Jupiter 100213-09-30 12:14 G 38323378.93 38323379.01 38323379.09 0.0510 0.0388

Saturn 100213-11-15 01:11 G 38323424.36 38323424.55 38323424.74 0.0273 0.0041

Saturn 100214-02-12 00:28 G 38323513.37 38323513.52 38323513.68 0.0274 0.0157

Earth 100217-02-14 21:07 G 38324612.28 38324612.38 38324612.49 0.2644 0.0252

Moon 100217-02-14 21:50 G 38324612.30 38324612.41 38324612.51 0.2648 0.0225 *

Jupiter 100219-08-23 00:14 G 38325531.48 38325531.51 38325531.54 0.0513 0.0503

Jupiter 100219-11-21 15:35 G 38325622.11 38325622.15 38325622.20 0.0515 0.0496

Mars 100221-03-22 07:11 G 38326108.69 38326108.80 38326108.90 0.1609 0.0576

Mars 100223-02-25 08:09 G 38326813.77 38326813.84 38326813.92 0.1596 0.1196

Venus 100223-11-09 18:14 G 38327071.21 38327071.26 38327071.31 0.3642 0.3090

Jupiter 100225-04-21 13:55 G 38327600.00 38327600.08 38327600.16 0.0513 0.0392

Jupiter 100225-07-19 17:31 G 38327689.12 38327689.23 38327689.34 0.0511 0.0240

Saturn 100226-12-30 01:11 G 38328217.44 38328217.55 38328217.66 0.0290 0.0144

Saturn 100227-03-28 12:43 G 38328305.90 38328306.03 38328306.16 0.0289 0.0012

Saturn 100227-06-24 23:59 G 38328394.40 38328394.50 38328394.61 0.0288 0.0166

Venus 100229-05-25 09:07 G 38329094.79 38329094.88 38329094.98 0.3640 0.1267

Mars 100229-10-14 18:57 G 38329237.22 38329237.29 38329237.35 0.1944 0.1759

Earth 100230-02-17 14:09 G 38329363.00 38329363.09 38329363.19 0.2643 0.1253

Moon 100230-02-17 14:52 G 38329363.03 38329363.12 38329363.21 0.2642 0.1411 *

Mars 100230-08-12 18:43 G 38329539.19 38329539.28 38329539.37 0.1613 0.1009

Jupiter 100231-09-09 10:04 G 38329931.75 38329931.92 38329932.09 0.0515 0.0226

Mars 100232-07-17 19:55 G 38330244.23 38330244.33 38330244.44 0.1599 0.0771

Venus 100234-12-09 00:14 G 38331118.41 38331118.51 38331118.61 0.3638 0.0559

Jupiter 100237-05-07 22:33 G 38331999.32 38331999.44 38331999.57 0.0511 0.0092

Mars 100239-03-06 10:19 G 38332666.76 38332666.93 38332667.10 0.1938 0.0159

Mars 100240-01-03 06:28 G 38332969.72 38332969.77 38332969.82 0.1617 0.1445

Venus 100240-06-23 15:07 G 38333142.05 38333142.13 38333142.20 0.3635 0.2342

Mars 100241-12-08 07:40 G 38333674.71 38333674.82 38333674.93 0.1602 0.0341

Uranus 100243-03-31 18:57 G 38334153.20 38334153.29 38334153.41 0.0136 0.0114

Saturn 100243-04-03 23:45 G 38334156.31 38334156.49 38334156.67 0.0272 0.0096

Uranus 100243-06-28 02:52 G 38334241.48 38334241.62 38334241.78 0.0136 0.0086

Jupiter 100243-06-28 06:14 G 38334241.58 38334241.76 38334241.95 0.0515 0.0017 *

Saturn 100243-07-01 22:47 G 38334245.28 38334245.45 38334245.63 0.0273 0.0100

Uranus 100243-09-24 10:33 G 38334329.77 38334329.94 38334330.13 0.0136 0.0058

Uranus 100243-12-21 18:28 G 38334418.08 38334418.27 38334418.46 0.0136 0.0030

Uranus 100244-03-19 02:09 G 38334506.40 38334506.59 38334506.79 0.0136 0.0003

Uranus 100244-06-15 09:50 G 38334594.72 38334594.91 38334595.11 0.0136 0.0026

Uranus 100244-09-11 17:31 G 38334683.05 38334683.23 38334683.41 0.0136 0.0053

Uranus 100244-12-09 01:11 G 38334771.40 38334771.55 38334771.71 0.0136 0.0081

Uranus 100245-03-07 08:38 G 38334859.76 38334859.86 38334859.99 0.0136 0.0109

Earth 100246-08-20 21:21 G 38335391.24 38335391.39 38335391.54 0.2689 0.1078

Moon 100246-08-20 22:33 G 38335391.31 38335391.44 38335391.58 0.2694 0.1392 *

Mars 100248-07-26 02:09 G 38336096.47 38336096.59 38336096.70 0.1932 0.1427

Jupiter 100249-02-24 03:07 G 38336309.51 38336309.63 38336309.76 0.0511 0.0072

Earth 100250-02-13 08:52 G 38336663.78 38336663.87 38336663.96 0.2645 0.1406

Moon 100250-02-13 09:07 G 38336663.79 38336663.88 38336663.97 0.2651 0.1410 *

Mars 100251-04-30 19:26 G 38337105.19 38337105.31 38337105.42 0.1605 0.0096

Neptune 100254-02-01 22:47 G 38338113.37 38338113.45 38338113.53 0.0090 0.0081

Neptune 100254-05-01 02:09 G 38338201.49 38338201.59 38338201.73 0.0090 0.0071

Neptune 100254-07-28 05:59 G 38338289.62 38338289.75 38338289.92 0.0090 0.0060

Neptune 100254-10-24 09:50 G 38338377.76 38338377.91 38338378.09 0.0090 0.0049

Neptune 100255-01-20 13:40 G 38338465.91 38338466.07 38338466.27 0.0090 0.0038

Jupiter 100255-04-16 02:52 G 38338551.46 38338551.62 38338551.78 0.0514 0.0250

Neptune 100255-04-18 17:45 G 38338554.06 38338554.24 38338554.44 0.0090 0.0027

Neptune 100255-07-15 21:35 G 38338642.21 38338642.40 38338642.60 0.0090 0.0016

Neptune 100255-10-12 01:40 G 38338730.37 38338730.57 38338730.76 0.0090 0.0005

Neptune 100256-01-08 05:31 G 38338818.53 38338818.73 38338818.92 0.0090 0.0007

Neptune 100256-04-05 09:07 G 38338906.69 38338906.88 38338907.08 0.0090 0.0018

Saturn 100256-05-18 02:23 G 38338949.52 38338949.60 38338949.70 0.0291 0.0204

Neptune 100256-07-02 12:57 G 38338994.86 38338995.04 38338995.23 0.0090 0.0029

Saturn 100256-08-14 13:55 G 38339037.96 38339038.08 38339038.21 0.0290 0.0048

Neptune 100256-09-28 16:33 G 38339083.03 38339083.19 38339083.38 0.0090 0.0040

Saturn 100256-11-11 01:26 G 38339126.44 38339126.56 38339126.68 0.0289 0.0108

Neptune 100256-12-25 20:23 G 38339171.20 38339171.35 38339171.53 0.0090 0.0051

Saturn 100257-02-07 12:43 G 38339214.98 38339215.03 38339215.08 0.0288 0.0260

Neptune 100257-03-24 00:14 G 38339259.38 38339259.51 38339259.67 0.0090 0.0062

Neptune 100257-06-20 03:50 G 38339347.57 38339347.66 38339347.80 0.0090 0.0073

Neptune 100257-09-16 07:40 G 38339435.77 38339435.82 38339435.91 0.0090 0.0084

Venus 100259-11-10 19:40 G 38340221.17 38340221.32 38340221.48 0.3736 0.1223

Mars 100260-09-20 06:57 G 38340535.68 38340535.79 38340535.90 0.1609 0.0526

Jupiter 100260-12-13 07:55 G 38340619.72 38340619.83 38340619.94 0.0512 0.0229

Jupiter 100261-03-12 11:16 G 38340708.90 38340708.97 38340709.05 0.0510 0.0400

Mars 100262-08-26 08:09 G 38341240.77 38341240.84 38341240.92 0.1595 0.1249

Earth 100263-02-16 01:55 G 38341414.47 38341414.58 38341414.69 0.2644 0.0070

Moon 100263-02-16 02:23 G 38341414.49 38341414.60 38341414.71 0.2648 0.0218 *

Jupiter 100267-02-01 22:47 G 38342861.40 38342861.45 38342861.50 0.0513 0.0493

Jupiter 100267-05-03 14:09 G 38342952.06 38342952.09 38342952.12 0.0515 0.0507

Mars 100269-04-14 19:40 G 38343664.29 38343664.32 38343664.36 0.1944 0.1886

Mars 100270-02-10 18:43 G 38343966.19 38343966.28 38343966.37 0.1613 0.0961

Mars 100272-01-16 19:55 G 38344671.23 38344671.33 38344671.43 0.1599 0.0819

Saturn 100272-08-20 21:50 G 38344888.26 38344888.41 38344888.57 0.0272 0.0157

Jupiter 100272-10-01 12:28 G 38344929.94 38344930.02 38344930.10 0.0513 0.0390

Saturn 100272-11-17 20:52 G 38344977.18 38344977.37 38344977.57 0.0273 0.0039

Jupiter 100272-12-29 16:04 G 38345019.06 38345019.17 38345019.28 0.0511 0.0243

Saturn 100273-02-14 20:09 G 38345066.25 38345066.34 38345066.44 0.0274 0.0238

Earth 100276-02-18 18:57 G 38346165.21 38346165.29 38346165.38 0.2642 0.1551

Moon 100276-02-18 19:40 G 38346165.23 38346165.32 38346165.40 0.2640 0.1592 *

Mars 100278-09-04 11:31 G 38347093.81 38347093.98 38347094.15 0.1938 0.0298

Jupiter 100279-02-19 09:35 G 38347261.74 38347261.90 38347262.07 0.0515 0.0255

Pluto 100279-03-03 05:02 G 38347273.65 38347273.71 38347273.81 0.0060 0.0054

Pluto 100279-05-30 06:14 G 38347361.65 38347361.76 38347361.91 0.0060 0.0045

Mars 100279-07-04 06:14 G 38347396.71 38347396.76 38347396.82 0.1617 0.1400

Earth 100279-08-18 18:43 G 38347442.17 38347442.28 38347442.39 0.2688 0.2009

Moon 100279-08-18 18:57 G 38347442.18 38347442.29 38347442.40 0.2694 0.1883 *

Pluto 100279-08-26 07:40 G 38347449.68 38347449.82 38347449.99 0.0060 0.0034

Pluto 100279-11-22 08:52 G 38347537.71 38347537.87 38347538.06 0.0060 0.0024

Pluto 100280-02-18 10:33 G 38347625.75 38347625.94 38347626.12 0.0060 0.0014

Pluto 100280-05-16 11:45 G 38347713.80 38347713.99 38347714.18 0.0060 0.0004

Venus 100280-06-15 15:35 G 38347744.07 38347744.15 38347744.22 0.3642 0.2448

Pluto 100280-08-12 12:57 G 38347801.86 38347802.04 38347802.23 0.0060 0.0007

Pluto 100280-11-08 14:09 G 38347889.91 38347890.09 38347890.28 0.0061 0.0017

Pluto 100281-02-04 15:21 G 38347977.98 38347978.14 38347978.32 0.0061 0.0027

Pluto 100281-05-03 16:47 G 38348066.05 38348066.20 38348066.35 0.0061 0.0037

Mars 100281-06-08 07:40 G 38348101.70 38348101.82 38348101.93 0.1602 0.0392

Pluto 100281-07-30 17:31 G 38348154.14 38348154.23 38348154.37 0.0061 0.0048

Pluto 100281-10-26 18:57 G 38348242.25 38348242.29 38348242.37 0.0061 0.0058

Moon 100283-02-11 20:09 G 38348715.33 38348715.34 38348715.36 0.2652 0.2627

Earth 100283-02-11 20:38 G 38348715.34 38348715.36 38348715.38 0.2646 0.2576 *

Jupiter 100284-10-17 21:21 G 38349329.26 38349329.39 38349329.51 0.0511 0.0095

Saturn 100285-10-05 04:33 G 38349681.63 38349681.69 38349681.76 0.0291 0.0251

Venus 100285-12-30 06:28 G 38349767.67 38349767.77 38349767.87 0.3639 0.0625

Uranus 100285-12-30 22:19 G 38349768.37 38349768.43 38349768.49 0.0142 0.0126

Saturn 100286-01-01 16:04 G 38349770.05 38349770.17 38349770.30 0.0290 0.0094

Uranus 100286-03-29 01:40 G 38349856.48 38349856.57 38349856.66 0.0142 0.0105

Saturn 100286-03-31 03:35 G 38349858.52 38349858.65 38349858.78 0.0289 0.0062

Uranus 100286-06-25 05:02 G 38349944.61 38349944.71 38349944.82 0.0142 0.0084

Saturn 100286-06-27 14:52 G 38349947.04 38349947.12 38349947.21 0.0288 0.0216

Uranus 100286-09-21 08:23 G 38350032.74 38350032.85 38350032.97 0.0142 0.0064

Uranus 100286-12-18 11:59 G 38350120.87 38350121.00 38350121.12 0.0142 0.0042

Uranus 100287-03-16 15:21 G 38350209.01 38350209.14 38350209.27 0.0142 0.0021

Uranus 100287-06-12 18:43 G 38350297.15 38350297.28 38350297.41 0.0142 0.0003

Uranus 100287-09-08 22:19 G 38350385.30 38350385.43 38350385.56 0.0142 0.0021

Uranus 100287-12-06 01:40 G 38350473.44 38350473.57 38350473.69 0.0142 0.0042

Mars 100288-01-25 02:38 G 38350523.49 38350523.61 38350523.73 0.1932 0.1323

Uranus 100288-03-03 05:02 G 38350561.59 38350561.71 38350561.83 0.0142 0.0063

Uranus 100288-05-30 08:23 G 38350649.75 38350649.85 38350649.96 0.0142 0.0084

Uranus 100288-08-26 11:59 G 38350737.91 38350738.00 38350738.08 0.0142 0.0106

Uranus 100288-11-22 15:21 G 38350826.08 38350826.14 38350826.20 0.0142 0.0127

Mars 100290-10-29 19:11 G 38351532.19 38351532.30 38351532.42 0.1605 0.0070

Jupiter 100290-12-08 04:04 G 38351571.48 38351571.67 38351571.85 0.0514 0.0022

Venus 100291-07-15 21:21 G 38351791.30 38351791.39 38351791.49 0.3637 0.1188

Earth 100292-08-21 04:19 G 38352193.56 38352193.68 38352193.80 0.2689 0.1790

Moon 100292-08-21 05:45 G 38352193.63 38352193.74 38352193.85 0.2694 0.1892 *

Earth 100296-02-14 13:40 G 38353465.97 38353466.07 38353466.17 0.2645 0.1106

Moon 100296-02-14 13:55 G 38353465.98 38353466.08 38353466.18 0.2651 0.1058 *

Jupiter 100296-08-06 02:23 G 38353639.47 38353639.60 38353639.72 0.0512 0.0056

Venus 100297-01-28 12:28 G 38353814.96 38353815.02 38353815.07 0.3635 0.2972

Mars 100300-03-22 06:57 G 38354962.68 38354962.79 38354962.91 0.1609 0.0477

Saturn 100302-01-08 20:52 G 38355620.25 38355620.37 38355620.50 0.0271 0.0208

Mars 100302-02-25 08:09 G 38355667.78 38355667.84 38355667.91 0.1596 0.1299

Saturn 100302-04-07 20:09 G 38355709.14 38355709.34 38355709.53 0.0272 0.0014

Saturn 100302-07-05 18:57 G 38355798.16 38355798.29 38355798.44 0.0273 0.0186

Jupiter 100302-09-26 23:59 G 38355881.34 38355881.50 38355881.66 0.0514 0.0260

Jupiter 100308-05-26 06:43 G 38357949.67 38357949.78 38357949.90 0.0512 0.0220

Jupiter 100308-08-23 10:19 G 38358038.86 38358038.93 38358039.01 0.0510 0.0408

Earth 100309-02-17 06:43 G 38358216.67 38358216.78 38358216.88 0.2643 0.0377

Moon 100309-02-17 07:11 G 38358216.69 38358216.80 38358216.91 0.2646 0.0430 *

Mars 100309-08-12 18:43 G 38358393.18 38358393.28 38358393.37 0.1613 0.0910

Mars 100311-07-18 19:55 G 38359098.24 38359098.33 38359098.43 0.1598 0.0875

Jupiter 100314-07-15 20:38 G 38360191.31 38360191.36 38360191.41 0.0514 0.0493

Jupiter 100314-10-14 11:59 G 38360281.98 38360282.00 38360282.03 0.0516 0.0508

Saturn 100315-05-22 17:59 G 38360502.14 38360502.25 38360502.36 0.0291 0.0147

Saturn 100315-08-19 05:31 G 38360590.60 38360590.73 38360590.86 0.0290 0.0010

Saturn 100315-11-15 16:47 G 38360679.10 38360679.20 38360679.31 0.0288 0.0164

Mars 100318-03-06 12:28 G 38361520.85 38361521.02 38361521.18 0.1938 0.0421

Mars 100319-01-03 06:14 G 38361823.70 38361823.76 38361823.82 0.1617 0.1352

Jupiter 100320-03-14 11:31 G 38362259.90 38362259.98 38362260.06 0.0512 0.0380

Jupiter 100320-06-11 15:07 G 38362349.02 38362349.13 38362349.24 0.0510 0.0251

Mars 100320-12-08 07:40 G 38362528.70 38362528.82 38362528.93 0.1602 0.0445

Earth 100322-02-19 23:45 G 38362967.41 38362967.49 38362967.57 0.2642 0.1850

Moon 100322-02-20 00:28 G 38362967.45 38362967.52 38362967.59 0.2639 0.2011 *

Earth 100325-08-20 01:40 G 38364244.43 38364244.57 38364244.72 0.2688 0.1291

Moon 100325-08-20 02:38 G 38364244.46 38364244.61 38364244.75 0.2694 0.1238 *

Jupiter 100326-08-02 07:40 G 38364591.66 38364591.82 38364591.99 0.0515 0.0258

Uranus 100327-01-23 19:11 G 38364766.26 38364766.30 38364766.35 0.0136 0.0133

Uranus 100327-04-22 03:07 G 38364854.50 38364854.63 38364854.75 0.0136 0.0105

Uranus 100327-07-19 10:33 G 38364942.79 38364942.94 38364943.11 0.0136 0.0077

Mars 100327-07-27 03:50 G 38364950.52 38364950.66 38364950.79 0.1932 0.1187

Uranus 100327-10-15 18:14 G 38365031.09 38365031.26 38365031.45 0.0136 0.0050

Uranus 100328-01-12 02:09 G 38365119.40 38365119.59 38365119.79 0.0136 0.0021

Uranus 100328-04-09 09:50 G 38365207.72 38365207.91 38365208.11 0.0136 0.0007

Uranus 100328-07-06 17:31 G 38365296.05 38365296.23 38365296.43 0.0136 0.0035

Uranus 100328-10-03 01:26 G 38365384.38 38365384.56 38365384.73 0.0136 0.0062

Uranus 100328-12-30 08:52 G 38365472.73 38365472.87 38365473.02 0.0136 0.0090

Moon 100329-02-13 01:11 G 38365517.50 38365517.55 38365517.59 0.2652 0.2351

Earth 100329-02-13 01:26 G 38365517.50 38365517.56 38365517.61 0.2646 0.2281 *

Uranus 100329-03-28 16:19 G 38365561.10 38365561.18 38365561.29 0.0136 0.0118

Mars 100330-04-30 19:11 G 38365959.19 38365959.30 38365959.42 0.1605 0.0037

Saturn 100331-05-28 19:40 G 38366352.28 38366352.32 38366352.37 0.0272 0.0263

Venus 100331-07-08 21:50 G 38366393.40 38366393.41 38366393.41 0.3643 0.3630

Saturn 100331-08-25 18:43 G 38366441.10 38366441.28 38366441.47 0.0273 0.0069

Saturn 100331-11-22 17:59 G 38366530.08 38366530.25 38366530.42 0.0274 0.0129

Jupiter 100332-03-30 19:40 G 38366659.20 38366659.32 38366659.45 0.0511 0.0092

Neptune 100334-08-27 09:35 G 38367538.88 38367538.90 38367538.93 0.0088 0.0086

Neptune 100334-11-23 10:47 G 38367626.90 38367626.95 38367627.01 0.0088 0.0079

Neptune 100335-02-19 11:45 G 38367714.93 38367714.99 38367715.08 0.0088 0.0073

Neptune 100335-05-18 13:11 G 38367802.97 38367803.05 38367803.14 0.0088 0.0066

Neptune 100335-08-14 14:23 G 38367891.01 38367891.10 38367891.21 0.0088 0.0059

Neptune 100335-11-10 15:35 G 38367979.05 38367979.15 38367979.27 0.0088 0.0052

Neptune 100336-02-06 17:02 G 38368067.10 38368067.21 38368067.32 0.0088 0.0045

Neptune 100336-05-04 18:14 G 38368155.14 38368155.26 38368155.38 0.0088 0.0038

Neptune 100336-07-31 19:26 G 38368243.19 38368243.31 38368243.44 0.0088 0.0031

Neptune 100336-10-27 20:38 G 38368331.24 38368331.36 38368331.49 0.0088 0.0025

Venus 100337-01-21 12:43 G 38368416.95 38368417.03 38368417.12 0.3641 0.1806

Neptune 100337-01-23 21:50 G 38368419.29 38368419.41 38368419.55 0.0088 0.0018

Neptune 100337-04-21 23:16 G 38368507.34 38368507.47 38368507.60 0.0088 0.0011

Neptune 100337-07-19 00:28 G 38368595.39 38368595.52 38368595.65 0.0088 0.0004

Neptune 100337-10-15 01:40 G 38368683.44 38368683.57 38368683.70 0.0088 0.0003

Neptune 100338-01-11 02:52 G 38368771.49 38368771.62 38368771.75 0.0088 0.0010

Neptune 100338-04-09 04:04 G 38368859.55 38368859.67 38368859.80 0.0088 0.0017

Jupiter 100338-05-21 03:07 G 38368901.45 38368901.63 38368901.82 0.0514 0.0013

Neptune 100338-07-06 05:16 G 38368947.60 38368947.72 38368947.85 0.0088 0.0024

Earth 100338-08-23 11:16 G 38368995.91 38368995.97 38368996.03 0.2690 0.2504

Neptune 100338-10-02 06:28 G 38369035.66 38369035.77 38369035.90 0.0088 0.0031

Neptune 100338-12-29 07:40 G 38369123.71 38369123.82 38369123.95 0.0088 0.0038

Neptune 100339-03-27 09:07 G 38369211.77 38369211.88 38369212.00 0.0088 0.0044

Neptune 100339-06-23 10:19 G 38369299.83 38369299.93 38369300.04 0.0088 0.0051

Neptune 100339-09-19 11:31 G 38369387.89 38369387.98 38369388.08 0.0088 0.0058

Mars 100339-09-21 06:57 G 38369389.68 38369389.79 38369389.90 0.1609 0.0425

Neptune 100339-12-16 12:43 G 38369475.95 38369476.03 38369476.13 0.0088 0.0065

Neptune 100340-03-13 13:55 G 38369564.02 38369564.08 38369564.16 0.0088 0.0072

Neptune 100340-06-09 15:07 G 38369652.08 38369652.13 38369652.20 0.0088 0.0079

Neptune 100340-09-05 16:33 G 38369740.17 38369740.19 38369740.22 0.0088 0.0085

Mars 100341-08-26 08:09 G 38370094.78 38370094.84 38370094.90 0.1595 0.1350

Earth 100342-02-15 18:14 G 38370268.16 38370268.26 38370268.37 0.2644 0.0810

Moon 100342-02-15 18:43 G 38370268.18 38370268.28 38370268.38 0.2651 0.0734 *

Venus 100342-08-07 03:50 G 38370440.56 38370440.66 38370440.76 0.3639 0.0049

Jupiter 100344-01-18 00:43 G 38370969.41 38370969.53 38370969.66 0.0512 0.0060

Saturn 100344-10-08 20:38 G 38371234.26 38371234.36 38371234.46 0.0291 0.0189

Saturn 100345-01-05 08:09 G 38371322.71 38371322.84 38371322.96 0.0289 0.0033

Saturn 100345-04-03 19:26 G 38371411.19 38371411.31 38371411.43 0.0288 0.0123

Saturn 100345-07-01 06:43 G 38371499.75 38371499.78 38371499.82 0.0287 0.0275

Venus 100348-02-20 18:43 G 38372464.19 38372464.28 38372464.37 0.3636 0.1813

Mars 100349-02-10 18:43 G 38372820.18 38372820.28 38372820.37 0.1613 0.0863

Jupiter 100350-03-08 21:21 G 38373211.23 38373211.39 38373211.55 0.0514 0.0268

Mars 100351-01-16 19:55 G 38373525.23 38373525.33 38373525.42 0.1599 0.0923

Venus 100353-09-05 09:35 G 38374487.89 38374487.90 38374487.91 0.3634 0.3596

Earth 100355-02-18 11:16 G 38375018.87 38375018.97 38375019.08 0.2643 0.0680

Moon 100355-02-18 11:59 G 38375018.90 38375019.00 38375019.10 0.2644 0.0789 *

Jupiter 100355-11-06 05:45 G 38375279.63 38375279.74 38375279.86 0.0512 0.0212

Jupiter 100356-02-03 09:21 G 38375368.82 38375368.89 38375368.96 0.0510 0.0417

Mars 100357-09-04 13:11 G 38375947.89 38375948.05 38375948.21 0.1939 0.0545

Mars 100358-07-04 06:14 G 38376250.70 38376250.76 38376250.83 0.1617 0.1299

Mars 100360-06-08 07:40 G 38376955.70 38376955.82 38376955.93 0.1602 0.0497

Saturn 100361-01-11 18:28 G 38377173.10 38377173.27 38377173.45 0.0272 0.0114

Saturn 100361-04-10 17:45 G 38377262.06 38377262.24 38377262.43 0.0273 0.0083

Jupiter 100361-12-25 17:16 G 38377521.21 38377521.22 38377521.24 0.0513 0.0511

Jupiter 100362-03-26 08:52 G 38377611.81 38377611.87 38377611.93 0.0516 0.0489

Mars 100367-01-25 05:02 G 38379377.57 38379377.71 38379377.85 0.1932 0.1049

Venus 100367-07-09 12:28 G 38379542.88 38379543.02 38379543.16 0.3734 0.1852

Jupiter 100367-08-25 10:19 G 38379589.84 38379589.93 38379590.01 0.0513 0.0376

Jupiter 100367-11-22 13:40 G 38379678.97 38379679.07 38379679.18 0.0510 0.0255

Earth 100368-02-21 04:33 G 38379769.63 38379769.69 38379769.75 0.2642 0.2157

Moon 100368-02-21 05:02 G 38379769.66 38379769.71 38379769.77 0.2639 0.2204 *

Uranus 100369-10-25 02:09 G 38380381.59 38380381.59 38380381.62 0.0142 0.0141

Mars 100369-10-29 19:11 G 38380386.19 38380386.30 38380386.42 0.1605 0.0076

Uranus 100370-01-21 05:45 G 38380469.68 38380469.74 38380469.81 0.0142 0.0120

Uranus 100370-04-19 09:07 G 38380557.79 38380557.88 38380557.98 0.0142 0.0099

Uranus 100370-07-16 12:28 G 38380645.92 38380646.02 38380646.14 0.0142 0.0078

Uranus 100370-10-12 16:04 G 38380734.05 38380734.17 38380734.29 0.0142 0.0057

Uranus 100371-01-08 19:26 G 38380822.19 38380822.31 38380822.44 0.0142 0.0036

Uranus 100371-04-06 22:47 G 38380910.32 38380910.45 38380910.58 0.0142 0.0015

Uranus 100371-07-04 02:23 G 38380998.47 38380998.60 38380998.73 0.0142 0.0008

Earth 100371-08-21 08:38 G 38381046.70 38381046.86 38381047.02 0.2688 0.0585

Moon 100371-08-21 09:50 G 38381046.75 38381046.91 38381047.07 0.2694 0.0396 *

Uranus 100371-09-30 05:45 G 38381086.61 38381086.74 38381086.87 0.0142 0.0028

Uranus 100371-12-27 09:07 G 38381174.76 38381174.88 38381175.00 0.0142 0.0049

Uranus 100372-03-24 12:28 G 38381262.91 38381263.02 38381263.14 0.0142 0.0070

Uranus 100372-06-20 15:50 G 38381351.07 38381351.16 38381351.27 0.0142 0.0091

Uranus 100372-09-16 19:11 G 38381439.23 38381439.30 38381439.39 0.0142 0.0113

Uranus 100372-12-13 22:47 G 38381527.41 38381527.45 38381527.50 0.0142 0.0133

Pluto 100373-09-08 04:33 G 38381795.61 38381795.69 38381795.78 0.0084 0.0066

Pluto 100373-12-05 05:45 G 38381883.63 38381883.74 38381883.86 0.0084 0.0047

Jupiter 100374-01-12 05:02 G 38381921.55 38381921.71 38381921.88 0.0515 0.0250

Saturn 100374-02-25 22:47 G 38381966.38 38381966.45 38381966.53 0.0291 0.0237

Pluto 100374-03-03 06:57 G 38381971.67 38381971.79 38381971.92 0.0084 0.0028

Saturn 100374-05-25 10:19 G 38382054.81 38382054.93 38382055.06 0.0290 0.0080

Pluto 100374-05-30 08:23 G 38382059.71 38382059.85 38382059.98 0.0083 0.0008

Saturn 100374-08-21 21:50 G 38382143.28 38382143.41 38382143.53 0.0289 0.0076

Pluto 100374-08-26 09:35 G 38382147.77 38382147.90 38382148.03 0.0083 0.0011

Saturn 100374-11-18 09:07 G 38382231.80 38382231.88 38382231.95 0.0288 0.0229

Pluto 100374-11-22 10:33 G 38382235.82 38382235.94 38382236.08 0.0083 0.0030

Moon 100375-02-14 05:59 G 38382319.68 38382319.75 38382319.82 0.2652 0.1934

Earth 100375-02-14 05:59 G 38382319.68 38382319.75 38382319.82 0.2646 0.1981 *

Pluto 100375-02-18 11:45 G 38382323.89 38382323.99 38382324.11 0.0083 0.0049

Pluto 100375-05-17 12:57 G 38382411.98 38382412.04 38382412.13 0.0083 0.0068

Mars 100379-03-22 06:57 G 38383816.68 38383816.79 38383816.90 0.1609 0.0376

Jupiter 100379-09-10 18:28 G 38383989.14 38383989.27 38383989.39 0.0511 0.0095

Mars 100381-02-24 08:09 G 38384521.79 38384521.84 38384521.89 0.1595 0.1404

Jupiter 100385-10-31 00:57 G 38386231.35 38386231.54 38386231.72 0.0514 0.0011

Venus 100388-02-12 19:11 G 38387066.24 38387066.30 38387066.35 0.3643 0.2983

Earth 100388-02-16 23:02 G 38387070.35 38387070.46 38387070.57 0.2644 0.0505

Moon 100388-02-16 23:31 G 38387070.37 38387070.48 38387070.58 0.2650 0.0475 *

Mars 100388-08-11 18:28 G 38387247.18 38387247.27 38387247.37 0.1613 0.0815

Saturn 100390-05-31 17:45 G 38387905.09 38387905.24 38387905.39 0.0272 0.0166

Mars 100390-07-17 19:55 G 38387952.24 38387952.33 38387952.42 0.1598 0.0975

Saturn 100390-08-28 17:02 G 38387994.02 38387994.21 38387994.40 0.0273 0.0031

Saturn 100390-11-25 16:04 G 38388083.07 38388083.17 38388083.28 0.0274 0.0229

Jupiter 100391-06-29 23:02 G 38388299.33 38388299.46 38388299.58 0.0512 0.0067

Venus 100393-08-28 10:04 G 38389089.83 38389089.92 38389090.02 0.3640 0.1163

Mars 100397-03-05 14:23 G 38390374.94 38390375.10 38390375.25 0.1939 0.0678

Jupiter 100397-08-18 20:09 G 38390541.18 38390541.34 38390541.51 0.0514 0.0253

Mars 100398-01-02 06:14 G 38390677.69 38390677.76 38390677.83 0.1617 0.1253

Venus 100399-03-14 01:11 G 38391113.45 38391113.55 38391113.65 0.3638 0.0659

Mars 100399-12-08 07:26 G 38391382.70 38391382.81 38391382.92 0.1602 0.0546

Earth 100401-02-18 16:04 G 38391821.07 38391821.17 38391821.27 0.2643 0.0975

Moon 100401-02-18 16:47 G 38391821.10 38391821.20 38391821.30 0.2642 0.1100 *

Jupiter 100403-04-18 04:04 G 38392609.55 38392609.67 38392609.78 0.0512 0.0221

Saturn 100403-07-16 01:55 G 38392698.54 38392698.58 38392698.62 0.0291 0.0274

Jupiter 100403-07-16 07:26 G 38392698.74 38392698.81 38392698.89 0.0510 0.0409

Saturn 100403-10-12 13:11 G 38392786.94 38392787.05 38392787.17 0.0290 0.0116

Saturn 100404-01-09 00:43 G 38392875.40 38392875.53 38392875.66 0.0289 0.0040

Saturn 100404-04-06 11:59 G 38392963.91 38392964.00 38392964.10 0.0288 0.0194

Venus 100404-09-26 16:04 G 38393137.10 38393137.17 38393137.24 0.3636 0.2439

Mars 100406-07-26 05:16 G 38393804.58 38393804.72 38393804.87 0.1933 0.0952

Mars 100409-04-29 19:11 G 38394813.18 38394813.30 38394813.42 0.1605 0.0111

Jupiter 100409-09-05 05:45 G 38394941.67 38394941.74 38394941.81 0.0515 0.0474

Uranus 100411-02-13 03:07 G 38395467.56 38395467.63 38395467.73 0.0136 0.0122

Uranus 100411-05-12 11:02 G 38395555.82 38395555.96 38395556.10 0.0136 0.0094

Uranus 100411-08-08 18:28 G 38395644.11 38395644.27 38395644.46 0.0136 0.0067

Uranus 100411-11-05 02:23 G 38395732.42 38395732.60 38395732.79 0.0136 0.0039

Uranus 100412-02-01 10:19 G 38395820.73 38395820.93 38395821.12 0.0136 0.0011

Uranus 100412-04-29 17:59 G 38395909.05 38395909.25 38395909.44 0.0136 0.0017

Uranus 100412-07-27 01:26 G 38395997.38 38395997.56 38395997.75 0.0136 0.0045

Uranus 100412-10-23 09:07 G 38396085.72 38396085.88 38396086.05 0.0136 0.0072

Uranus 100413-01-19 16:33 G 38396174.08 38396174.19 38396174.34 0.0136 0.0100

Uranus 100413-04-18 00:28 G 38396262.46 38396262.52 38396262.59 0.0136 0.0127

Earth 100414-02-21 09:07 G 38396571.85 38396571.88 38396571.92 0.2642 0.2460

Moon 100414-02-21 09:35 G 38396571.88 38396571.90 38396571.93 0.2638 0.2563 *

Jupiter 100415-02-04 08:52 G 38396919.78 38396919.87 38396919.95 0.0513 0.0375

Jupiter 100415-05-04 12:28 G 38397008.91 38397009.02 38397009.13 0.0511 0.0257

Earth 100417-08-21 15:35 G 38397848.99 38397849.15 38397849.32 0.2688 0.0157

Moon 100417-08-21 17:02 G 38397849.05 38397849.21 38397849.37 0.2694 0.0331 *

Neptune 100418-08-03 16:33 G 38398196.18 38398196.19 38398196.21 0.0090 0.0089

Mars 100418-09-20 06:57 G 38398243.68 38398243.79 38398243.90 0.1609 0.0322

Neptune 100418-10-30 20:23 G 38398284.26 38398284.35 38398284.45 0.0090 0.0078

Neptune 100419-01-26 23:45 G 38398372.38 38398372.49 38398372.64 0.0090 0.0068

Neptune 100419-04-25 03:35 G 38398460.52 38398460.65 38398460.83 0.0090 0.0057

Neptune 100419-07-22 07:40 G 38398548.66 38398548.82 38398549.00 0.0090 0.0046

Neptune 100419-10-18 11:31 G 38398636.81 38398636.98 38398637.18 0.0090 0.0035

Saturn 100419-10-18 17:59 G 38398637.14 38398637.25 38398637.39 0.0272 0.0207 *

Neptune 100420-01-14 15:21 G 38398724.96 38398725.14 38398725.34 0.0090 0.0024

Saturn 100420-01-15 17:16 G 38398726.03 38398726.22 38398726.42 0.0273 0.0012

Neptune 100420-04-11 19:26 G 38398813.12 38398813.31 38398813.51 0.0090 0.0012

Saturn 100420-04-13 16:33 G 38398815.05 38398815.19 38398815.33 0.0274 0.0188

Neptune 100420-07-08 23:16 G 38398901.27 38398901.47 38398901.67 0.0090 0.0002

Mars 100420-08-25 08:09 G 38398948.79 38398948.84 38398948.88 0.1595 0.1455

Neptune 100420-10-05 03:07 G 38398989.44 38398989.63 38398989.83 0.0090 0.0010

Neptune 100421-01-01 06:57 G 38399077.60 38399077.79 38399077.98 0.0090 0.0021

Moon 100421-02-14 10:47 G 38399121.87 38399121.95 38399122.03 0.2652 0.1724

Earth 100421-02-14 10:47 G 38399121.87 38399121.95 38399122.03 0.2645 0.1679 *

Neptune 100421-03-30 10:33 G 38399165.77 38399165.94 38399166.14 0.0090 0.0032

Jupiter 100421-06-24 01:26 G 38399251.39 38399251.56 38399251.73 0.0515 0.0225

Neptune 100421-06-26 14:23 G 38399253.94 38399254.10 38399254.28 0.0090 0.0043

Neptune 100421-09-22 18:14 G 38399342.11 38399342.26 38399342.43 0.0090 0.0054

Neptune 100421-12-19 21:50 G 38399430.30 38399430.41 38399430.57 0.0090 0.0065

Neptune 100422-03-18 01:40 G 38399518.49 38399518.57 38399518.69 0.0090 0.0076

Neptune 100422-06-14 05:31 G 38399606.70 38399606.73 38399606.80 0.0090 0.0087

Venus 100424-02-13 15:50 G 38400216.00 38400216.16 38400216.32 0.3735 0.0676

Jupiter 100427-02-20 16:47 G 38401319.08 38401319.20 38401319.33 0.0511 0.0094

Mars 100428-02-10 18:28 G 38401674.17 38401674.27 38401674.37 0.1613 0.0763

Mars 100430-01-15 19:55 G 38402379.24 38402379.33 38402379.42 0.1598 0.1029

Saturn 100433-02-28 15:50 G 38403519.06 38403519.16 38403519.27 0.0291 0.0159

Jupiter 100433-04-11 21:50 G 38403561.22 38403561.41 38403561.59 0.0514 0.0019

Saturn 100433-05-28 03:21 G 38403607.51 38403607.64 38403607.77 0.0290 0.0007

Saturn 100433-08-24 14:38 G 38403696.01 38403696.11 38403696.22 0.0288 0.0153

Earth 100434-02-17 03:50 G 38403872.55 38403872.66 38403872.76 0.2644 0.0215

Moon 100434-02-17 04:19 G 38403872.57 38403872.68 38403872.79 0.2648 0.0085 *

Mars 100436-09-03 15:07 G 38404801.98 38404802.13 38404802.29 0.1939 0.0804

Mars 100437-07-03 06:14 G 38405104.68 38405104.76 38405104.84 0.1617 0.1203

Jupiter 100438-12-09 21:21 G 38405629.27 38405629.39 38405629.52 0.0512 0.0070

Mars 100439-06-08 07:26 G 38405809.70 38405809.81 38405809.92 0.1601 0.0596

Venus 100444-09-18 16:33 G 38407739.11 38407739.19 38407739.26 0.3642 0.2343

Jupiter 100445-01-28 17:16 G 38407871.07 38407871.22 38407871.39 0.0514 0.0263

Mars 100446-01-24 06:43 G 38408231.63 38408231.78 38408231.93 0.1933 0.0802

Earth 100447-02-19 20:52 G 38408623.27 38408623.37 38408623.46 0.2643 0.1277

Moon 100447-02-19 21:35 G 38408623.31 38408623.40 38408623.49 0.2642 0.1364 *

Mars 100448-10-28 19:11 G 38409240.18 38409240.30 38409240.42 0.1605 0.0162

Saturn 100449-03-06 17:45 G 38409369.18 38409369.24 38409369.31 0.0272 0.0255

Saturn 100449-06-03 17:02 G 38409458.02 38409458.21 38409458.40 0.0273 0.0059

Saturn 100449-08-31 16:19 G 38409547.01 38409547.18 38409547.34 0.0274 0.0139

Venus 100450-04-04 07:26 G 38409762.71 38409762.81 38409762.91 0.3640 0.0522

Jupiter 100450-09-28 01:55 G 38409939.47 38409939.58 38409939.69 0.0512 0.0232

Jupiter 100450-12-26 05:31 G 38410028.65 38410028.73 38410028.81 0.0510 0.0397

Uranus 100453-11-14 09:35 G 38411082.87 38411082.90 38411082.93 0.0142 0.0136

Uranus 100454-02-10 12:43 G 38411170.97 38411171.03 38411171.11 0.0142 0.0116

Uranus 100454-05-09 16:04 G 38411259.09 38411259.17 38411259.28 0.0142 0.0095

Uranus 100454-08-05 19:40 G 38411347.21 38411347.32 38411347.44 0.0142 0.0074

Uranus 100454-11-01 23:02 G 38411435.34 38411435.46 38411435.59 0.0142 0.0053

Uranus 100455-01-29 02:23 G 38411523.48 38411523.60 38411523.74 0.0142 0.0033

Uranus 100455-04-27 05:59 G 38411611.62 38411611.75 38411611.88 0.0142 0.0010

Uranus 100455-07-24 09:21 G 38411699.76 38411699.89 38411700.02 0.0142 0.0011

Venus 100455-10-18 22:19 G 38411786.34 38411786.43 38411786.53 0.3638 0.1275

Uranus 100455-10-20 12:43 G 38411787.91 38411788.03 38411788.16 0.0142 0.0032

Uranus 100456-01-16 16:04 G 38411876.06 38411876.17 38411876.30 0.0142 0.0053

Uranus 100456-04-13 19:26 G 38411964.21 38411964.31 38411964.43 0.0142 0.0075

Uranus 100456-07-10 23:02 G 38412052.37 38412052.46 38412052.56 0.0142 0.0095

Uranus 100456-10-07 02:23 G 38412140.53 38412140.60 38412140.68 0.0143 0.0117

Uranus 100457-01-03 05:45 G 38412228.72 38412228.74 38412228.78 0.0143 0.0138

Jupiter 100457-02-15 04:04 G 38412271.61 38412271.67 38412271.74 0.0515 0.0482

Mars 100458-03-21 06:57 G 38412670.67 38412670.79 38412670.90 0.1609 0.0279

Mars 100460-02-24 08:09 G 38413375.80 38413375.84 38413375.87 0.1595 0.1507

Venus 100461-05-03 13:11 G 38413810.00 38413810.05 38413810.11 0.3635 0.3064

Jupiter 100462-07-17 06:43 G 38414249.70 38414249.78 38414249.86 0.0513 0.0388

Saturn 100462-07-18 19:11 G 38414251.21 38414251.30 38414251.40 0.0290 0.0191

Jupiter 100462-10-14 10:19 G 38414338.82 38414338.93 38414339.05 0.0511 0.0246

Saturn 100462-10-15 06:43 G 38414339.65 38414339.78 38414339.91 0.0289 0.0035

Saturn 100463-01-11 17:59 G 38414428.14 38414428.25 38414428.37 0.0288 0.0120

Saturn 100463-04-10 05:16 G 38414516.69 38414516.72 38414516.76 0.0287 0.0272

Earth 100463-08-22 22:47 G 38414651.29 38414651.45 38414651.60 0.2689 0.0859

Moon 100463-08-22 23:59 G 38414651.35 38414651.50 38414651.65 0.2694 0.1027 *

Earth 100467-02-15 15:21 G 38415924.05 38415924.14 38415924.24 0.2645 0.1379

Moon 100467-02-15 15:35 G 38415924.06 38415924.15 38415924.24 0.2652 0.1287 *

Mars 100467-08-11 18:28 G 38416101.17 38416101.27 38416101.38 0.1613 0.0712

Jupiter 100468-12-03 22:04 G 38416581.25 38416581.42 38416581.60 0.0514 0.0208

Mars 100469-07-16 19:40 G 38416806.24 38416806.32 38416806.41 0.1598 0.1082

Jupiter 100474-08-02 15:21 G 38418649.02 38418649.14 38418649.26 0.0512 0.0091

Mars 100476-03-04 16:04 G 38419229.02 38419229.17 38419229.32 0.1940 0.0928

Mars 100477-01-01 06:14 G 38419531.68 38419531.76 38419531.84 0.1616 0.1151

Saturn 100478-10-21 17:31 G 38420190.05 38420190.23 38420190.41 0.0272 0.0099

Mars 100478-12-07 07:26 G 38420236.71 38420236.81 38420236.92 0.1601 0.0649

Saturn 100479-01-18 16:47 G 38420279.02 38420279.20 38420279.38 0.0273 0.0099

Earth 100480-02-18 08:23 G 38420674.75 38420674.85 38420674.96 0.2644 0.0149

Moon 100480-02-18 09:07 G 38420674.77 38420674.88 38420674.99 0.2646 0.0146 *

Venus 100480-09-19 19:11 G 38420889.22 38420889.30 38420889.38 0.3736 0.3206

Jupiter 100480-09-21 17:45 G 38420891.06 38420891.24 38420891.43 0.0514 0.0043

Mars 100485-07-25 07:40 G 38422658.66 38422658.82 38422658.98 0.1933 0.0672

Jupiter 100486-05-21 19:40 G 38422959.20 38422959.32 38422959.45 0.0512 0.0075

Mars 100486-05-24 17:45 G 38422962.23 38422962.24 38422962.26 0.1621 0.1599

Mars 100488-04-28 19:11 G 38423667.18 38423667.30 38423667.41 0.1605 0.0215

Saturn 100491-12-05 22:19 G 38424983.35 38424983.43 38424983.51 0.0291 0.0229

Saturn 100492-03-03 09:50 G 38425071.78 38425071.91 38425072.03 0.0290 0.0072

Saturn 100492-05-30 21:07 G 38425160.26 38425160.38 38425160.51 0.0289 0.0084

Jupiter 100492-07-10 13:55 G 38425200.93 38425201.08 38425201.24 0.0514 0.0282

Saturn 100492-08-27 08:23 G 38425248.78 38425248.85 38425248.93 0.0288 0.0237

Earth 100493-02-20 01:40 G 38425425.48 38425425.57 38425425.65 0.2643 0.1582

Moon 100493-02-20 02:09 G 38425425.51 38425425.59 38425425.67 0.2641 0.1727 *

Uranus 100495-03-05 11:31 G 38426168.88 38426168.98 38426169.10 0.0136 0.0111

Uranus 100495-06-01 19:26 G 38426257.15 38426257.31 38426257.46 0.0136 0.0084

Uranus 100495-08-29 02:52 G 38426345.45 38426345.62 38426345.81 0.0136 0.0056

Venus 100495-10-10 22:47 G 38426388.42 38426388.45 38426388.47 0.3644 0.3530

Uranus 100495-11-25 10:47 G 38426433.76 38426433.95 38426434.14 0.0136 0.0028

Uranus 100496-02-21 18:28 G 38426522.07 38426522.27 38426522.47 0.0136 0.0001

Uranus 100496-05-20 02:09 G 38426610.40 38426610.59 38426610.78 0.0136 0.0027

Uranus 100496-08-16 09:35 G 38426698.73 38426698.90 38426699.09 0.0136 0.0055

Earth 100496-08-19 20:09 G 38426702.25 38426702.34 38426702.43 0.2687 0.2233

Moon 100496-08-19 21:07 G 38426702.29 38426702.38 38426702.46 0.2694 0.2237 *

Uranus 100496-11-12 17:16 G 38426787.07 38426787.22 38426787.38 0.0136 0.0083

Uranus 100497-02-09 00:57 G 38426875.43 38426875.54 38426875.66 0.0136 0.0110

Mars 100497-09-19 06:43 G 38427097.67 38427097.78 38427097.90 0.1609 0.0233

Jupiter 100498-03-10 00:14 G 38427269.40 38427269.51 38427269.63 0.0512 0.0236

Jupiter 100498-06-07 03:50 G 38427358.58 38427358.66 38427358.74 0.0510 0.0392

Neptune 100499-05-24 08:52 G 38427709.85 38427709.87 38427709.92 0.0088 0.0084

Neptune 100499-08-20 10:19 G 38427797.88 38427797.93 38427798.00 0.0088 0.0077

Mars 100499-08-25 08:09 G 38427802.82 38427802.84 38427802.86 0.1595 0.1561

Neptune 100499-11-16 11:31 G 38427885.91 38427885.98 38427886.07 0.0088 0.0070

Neptune 100500-02-12 12:57 G 38427973.95 38427974.04 38427974.13 0.0088 0.0063

Moon 100500-02-14 03:07 G 38427975.60 38427975.63 38427975.65 0.2653 0.2558

Earth 100500-02-14 03:07 G 38427975.61 38427975.63 38427975.66 0.2646 0.2552 *

Neptune 100500-05-11 14:09 G 38428061.99 38428062.09 38428062.19 0.0088 0.0056

Neptune 100500-08-07 15:07 G 38428150.04 38428150.13 38428150.25 0.0088 0.0050

Neptune 100500-11-03 16:33 G 38428238.08 38428238.19 38428238.31 0.0088 0.0043

Neptune 100501-01-30 17:45 G 38428326.13 38428326.24 38428326.37 0.0088 0.0036

Venus 100501-04-26 13:40 G 38428411.98 38428412.07 38428412.16 0.3642 0.1701

Neptune 100501-04-28 19:11 G 38428414.17 38428414.30 38428414.42 0.0088 0.0029

Neptune 100501-07-25 20:23 G 38428502.22 38428502.35 38428502.48 0.0088 0.0022

Neptune 100501-10-21 21:35 G 38428590.27 38428590.40 38428590.53 0.0088 0.0015

Neptune 100502-01-17 22:47 G 38428678.32 38428678.45 38428678.58 0.0088 0.0008

Neptune 100502-04-15 23:59 G 38428766.37 38428766.50 38428766.64 0.0088 0.0004

Neptune 100502-07-13 01:26 G 38428854.42 38428854.56 38428854.69 0.0088 0.0006

Neptune 100502-10-09 02:38 G 38428942.48 38428942.61 38428942.74 0.0088 0.0012

Neptune 100503-01-05 03:50 G 38429030.53 38429030.66 38429030.79 0.0088 0.0019

Neptune 100503-04-03 05:02 G 38429118.59 38429118.71 38429118.84 0.0088 0.0026

Neptune 100503-06-30 06:14 G 38429206.64 38429206.76 38429206.89 0.0088 0.0033

Neptune 100503-09-26 07:26 G 38429294.70 38429294.81 38429294.93 0.0088 0.0040

Neptune 100503-12-23 08:38 G 38429382.76 38429382.86 38429382.98 0.0088 0.0047

Neptune 100504-03-20 09:50 G 38429470.82 38429470.91 38429471.02 0.0088 0.0054

Neptune 100504-06-16 11:02 G 38429558.88 38429558.96 38429559.07 0.0088 0.0061

Jupiter 100504-07-29 00:57 G 38429601.47 38429601.54 38429601.62 0.0515 0.0469

Neptune 100504-09-12 12:28 G 38429646.94 38429647.02 38429647.11 0.0088 0.0067

Neptune 100504-12-09 13:40 G 38429735.00 38429735.07 38429735.14 0.0088 0.0074

Neptune 100505-03-07 14:52 G 38429823.08 38429823.12 38429823.17 0.0088 0.0081

Neptune 100505-06-03 16:04 G 38429911.17 38429911.17 38429911.18 0.0088 0.0088

Venus 100506-11-10 04:47 G 38430435.60 38430435.70 38430435.80 0.3639 0.0167

Mars 100507-02-10 18:28 G 38430528.16 38430528.27 38430528.38 0.1612 0.0663

Saturn 100508-03-10 17:16 G 38430922.06 38430922.22 38430922.39 0.0272 0.0146

Saturn 100508-06-07 16:33 G 38431011.00 38431011.19 38431011.38 0.0273 0.0052

Saturn 100508-09-04 15:50 G 38431100.09 38431100.16 38431100.24 0.0275 0.0251

Mars 100509-01-15 19:40 G 38431233.24 38431233.32 38431233.40 0.1598 0.1131

Earth 100509-08-24 05:45 G 38431453.61 38431453.74 38431453.87 0.2689 0.1583

Moon 100509-08-24 07:26 G 38431453.69 38431453.81 38431453.92 0.2692 0.1899 *

Jupiter 100509-12-28 04:47 G 38431579.62 38431579.70 38431579.77 0.0513 0.0402

Jupiter 100510-03-27 08:23 G 38431668.74 38431668.85 38431668.96 0.0511 0.0230

Venus 100512-05-25 19:40 G 38432459.23 38432459.32 38432459.41 0.3637 0.1901

Earth 100513-02-16 20:09 G 38432726.24 38432726.34 38432726.44 0.2645 0.1075

Moon 100513-02-16 20:23 G 38432726.26 38432726.35 38432726.45 0.2651 0.1084 *

Mars 100515-09-04 17:02 G 38433656.08 38433656.21 38433656.35 0.1939 0.1066

Jupiter	100516-05-16 20:23	G	38433911.18	38433911.35	38433911.52	0.0515	0.0212	
Mars	100516-07-03 06:14	G	38433958.67	38433958.76	38433958.84	0.1617	0.1104	
Mars	100518-06-08 07:26	G	38434663.70	38434663.81	38434663.91	0.1601	0.0699	
Saturn	100521-04-25 01:40	G	38435715.52	38435715.57	38435715.63	0.0291	0.0260	
Saturn	100521-07-22 13:11	G	38435803.93	38435804.05	38435804.17	0.0290	0.0103	
Saturn	100521-10-19 00:43	G	38435892.40	38435892.53	38435892.65	0.0289	0.0053	
Jupiter	100522-01-13 13:11	G	38435978.93	38435979.05	38435979.18	0.0512	0.0076	
Saturn	100522-01-15 11:59	G	38435980.91	38435981.00	38435981.09	0.0287	0.0206	
Mars	100525-01-24 08:23	G	38437085.69	38437085.85	38437086.01	0.1933	0.0566	
Mars	100525-11-23 17:45	G	38437389.21	38437389.24	38437389.27	0.1621	0.1548	
Earth	100526-02-19 13:11	G	38437476.95	38437477.05	38437477.16	0.2644	0.0409	
Moon	100526-02-19 13:55	G	38437476.97	38437477.08	38437477.19	0.2645	0.0581	*
Pluto	100526-10-06 12:28	G	38437705.97	38437706.02	38437706.12	0.0060	0.0055	
Pluto	100527-01-02 13:40	G	38437793.97	38437794.07	38437794.22	0.0060	0.0045	
Pluto	100527-03-31 15:35	G	38437881.99	38437882.15	38437882.30	0.0060	0.0035	
Pluto	100527-06-27 16:47	G	38437970.03	38437970.20	38437970.38	0.0060	0.0025	
Pluto	100527-09-23 17:59	G	38438058.07	38438058.25	38438058.44	0.0060	0.0015	
Mars	100527-10-29 19:11	G	38438094.18	38438094.30	38438094.41	0.1605	0.0267	
Pluto	100527-12-20 19:26	G	38438146.12	38438146.31	38438146.50	0.0060	0.0005	
Jupiter	100528-03-04 14:38	G	38438220.92	38438221.11	38438221.29	0.0514	0.0060	
Pluto	100528-03-17 20:38	G	38438234.17	38438234.36	38438234.55	0.0060	0.0006	
Pluto	100528-06-13 21:50	G	38438322.23	38438322.41	38438322.60	0.0061	0.0016	
Pluto	100528-09-09 22:47	G	38438410.29	38438410.45	38438410.64	0.0061	0.0027	
Pluto	100528-12-06 23:59	G	38438498.37	38438498.50	38438498.67	0.0061	0.0037	
Pluto	100529-03-05 01:11	G	38438586.45	38438586.55	38438586.69	0.0061	0.0047	
Pluto	100529-06-01 02:38	G	38438674.56	38438674.61	38438674.69	0.0061	0.0057	
Venus	100531-10-12 08:52	G	38439537.74	38439537.87	38439537.99	0.3733	0.2351	
Jupiter	100533-11-01 17:59	G	38440289.13	38440289.25	38440289.38	0.0512	0.0080	
Mars	100537-03-21 06:43	G	38441524.67	38441524.78	38441524.90	0.1608	0.0183	
Saturn	100537-07-28 17:59	G	38441654.12	38441654.25	38441654.40	0.0272	0.0184	

Saturn 100537-10-25 17:16 G 38441743.03 38441743.22 38441743.42 0.0273 0.0015

Uranus 100537-12-05 16:33 G 38441784.15 38441784.19 38441784.24 0.0142 0.0132

Saturn 100538-01-22 16:33 G 38441832.08 38441832.19 38441832.32 0.0274 0.0213

Uranus 100538-03-03 19:55 G 38441872.26 38441872.33 38441872.42 0.0142 0.0111

Uranus 100538-05-30 23:31 G 38441960.38 38441960.48 38441960.58 0.0142 0.0090

Uranus 100538-08-27 02:52 G 38442048.51 38442048.62 38442048.74 0.0142 0.0069

Uranus 100538-11-23 06:14 G 38442136.64 38442136.76 38442136.89 0.0142 0.0048

Uranus 100539-02-19 09:50 G 38442224.78 38442224.91 38442225.04 0.0142 0.0027

Earth 100539-02-22 06:14 G 38442227.69 38442227.76 38442227.84 0.2643 0.1890

Moon 100539-02-22 06:57 G 38442227.71 38442227.79 38442227.86 0.2639 0.1925 *

Uranus 100539-05-18 13:11 G 38442312.92 38442313.05 38442313.18 0.0142 0.0006

Uranus 100539-08-14 16:33 G 38442401.06 38442401.19 38442401.32 0.0142 0.0015

Uranus 100539-11-10 19:55 G 38442489.21 38442489.33 38442489.46 0.0142 0.0036

Jupiter 100539-12-22 10:04 G 38442530.78 38442530.92 38442531.07 0.0513 0.0308

Uranus 100540-02-06 23:16 G 38442577.36 38442577.47 38442577.60 0.0142 0.0058

Uranus 100540-05-05 02:38 G 38442665.51 38442665.61 38442665.73 0.0142 0.0079

Uranus 100540-08-01 06:14 G 38442753.67 38442753.76 38442753.85 0.0142 0.0100

Uranus 100540-10-28 09:35 G 38442841.84 38442841.90 38442841.97 0.0143 0.0121

Uranus 100541-01-24 13:11 G 38442930.04 38442930.05 38442930.06 0.0143 0.0142

Earth 100542-08-22 03:07 G 38443504.50 38443504.63 38443504.76 0.2687 0.1522

Moon 100542-08-22 04:04 G 38443504.53 38443504.67 38443504.81 0.2694 0.1266 *

Jupiter 100545-08-20 22:19 G 38444599.32 38444599.43 38444599.55 0.0512 0.0246

Jupiter 100545-11-18 01:55 G 38444688.50 38444688.58 38444688.66 0.0510 0.0383

Moon 100546-02-15 07:55 G 38444777.77 38444777.83 38444777.88 0.2653 0.2273

Earth 100546-02-15 07:55 G 38444777.77 38444777.83 38444777.88 0.2646 0.2254 *

Mars 100546-08-11 18:28 G 38444955.16 38444955.27 38444955.38 0.1612 0.0611

Mars 100548-07-16 19:40 G 38445660.25 38445660.32 38445660.40 0.1598 0.1188

Saturn 100550-12-09 16:33 G 38446536.08 38446536.19 38446536.30 0.0290 0.0138

Saturn 100551-03-08 03:50 G 38446624.53 38446624.66 38446624.79 0.0289 0.0020

Saturn 100551-06-04 15:21 G 38446713.03 38446713.14 38446713.24 0.0288 0.0173

Jupiter 100552-01-08 21:35 G 38446931.31 38446931.40 38446931.49 0.0515 0.0448

Venus 100552-05-17 19:55 G 38447061.27 38447061.33 38447061.39 0.3644 0.2889

Mars 100555-03-05 17:59 G 38448083.12 38448083.25 38448083.38 0.1940 0.1187

Earth 100555-08-25 12:43 G 38448255.95 38448256.03 38448256.11 0.2689 0.2293

Moon 100555-08-25 14:38 G 38448256.04 38448256.11 38448256.17 0.2691 0.2455 *

Mars 100556-01-02 05:59 G 38448385.67 38448385.75 38448385.84 0.1616 0.1057

Jupiter 100557-06-09 02:52 G 38448909.55 38448909.62 38448909.70 0.0513 0.0407

Jupiter 100557-09-06 06:43 G 38448998.66 38448998.78 38448998.89 0.0511 0.0225

Venus 100557-12-01 11:02 G 38449084.86 38449084.96 38449085.06 0.3641 0.1069

Mars 100557-12-07 07:26 G 38449090.70 38449090.81 38449090.91 0.1601 0.0752

Earth 100559-02-18 00:57 G 38449528.43 38449528.54 38449528.64 0.2645 0.0778

Moon 100559-02-18 01:26 G 38449528.45 38449528.56 38449528.66 0.2649 0.0683 *

Venus 100563-06-17 01:55 G 38451108.48 38451108.58 38451108.68 0.3639 0.0741

Jupiter 100563-10-27 17:16 G 38451241.05 38451241.22 38451241.39 0.0515 0.0198

Mars 100564-07-25 09:35 G 38451512.73 38451512.90 38451513.06 0.1934 0.0426

Mars 100565-05-24 17:45 G 38451816.20 38451816.24 38451816.28 0.1621 0.1500

Saturn 100566-12-15 17:45 G 38452386.14 38452386.24 38452386.34 0.0272 0.0232

Saturn 100567-03-14 16:47 G 38452475.01 38452475.20 38452475.40 0.0273 0.0037

Mars 100567-04-29 19:11 G 38452521.18 38452521.30 38452521.41 0.1605 0.0320

Saturn 100567-06-11 16:04 G 38452564.02 38452564.17 38452564.33 0.0274 0.0163

Venus 100568-12-30 17:02 G 38453132.13 38453132.21 38453132.28 0.3636 0.2525

Jupiter 100569-06-25 11:02 G 38453308.84 38453308.96 38453309.09 0.0511 0.0062

Earth 100572-02-20 17:59 G 38454279.15 38454279.25 38454279.35 0.2643 0.0707

Moon 100572-02-20 18:43 G 38454279.18 38454279.28 38454279.38 0.2644 0.0762 *

Jupiter 100575-08-15 12:28 G 38455550.84 38455551.02 38455551.21 0.0514 0.0058

Mars 100576-09-19 06:43 G 38455951.67 38455951.78 38455951.90 0.1608 0.0124

Uranus 100578-12-28 11:31 G 38456781.94 38456781.98 38456782.05 0.0136 0.0130

Uranus 100579-03-26 19:11 G 38456870.19 38456870.30 38456870.44 0.0136 0.0103

Uranus 100579-06-23 03:07 G 38456958.47 38456958.63 38456958.80 0.0136 0.0075

Uranus 100579-09-19 10:47 G 38457046.77 38457046.95 38457047.14 0.0136 0.0047

Uranus 100579-12-16 18:28 G 38457135.08 38457135.27 38457135.47 0.0136 0.0019

Uranus 100580-03-14 02:09 G 38457223.40 38457223.59 38457223.79 0.0136 0.0009

Saturn 100580-04-27 19:40 G 38457268.22 38457268.32 38457268.43 0.0290 0.0170

Uranus 100580-06-10 09:50 G 38457311.72 38457311.91 38457312.10 0.0136 0.0036

Saturn 100580-07-25 07:11 G 38457356.67 38457356.80 38457356.93 0.0289 0.0015

Uranus 100580-09-06 17:31 G 38457400.06 38457400.23 38457400.41 0.0136 0.0064

Saturn 100580-10-21 18:43 G 38457445.16 38457445.28 38457445.39 0.0288 0.0141

Uranus 100580-12-04 00:57 G 38457488.41 38457488.54 38457488.70 0.0136 0.0092

Uranus 100581-03-02 08:38 G 38457576.78 38457576.86 38457576.96 0.0136 0.0119

Jupiter 100581-04-13 15:50 G 38457619.04 38457619.16 38457619.29 0.0512 0.0095

Neptune 100583-05-01 13:40 G 38458367.04 38458367.07 38458367.14 0.0090 0.0087

Neptune 100583-07-28 17:31 G 38458455.14 38458455.23 38458455.35 0.0090 0.0076

Neptune 100583-10-24 21:35 G 38458543.27 38458543.40 38458543.54 0.0090 0.0065

Neptune 100584-01-21 01:26 G 38458631.41 38458631.56 38458631.72 0.0090 0.0054

Neptune 100584-04-18 05:16 G 38458719.55 38458719.72 38458719.90 0.0090 0.0043

Neptune 100584-07-15 09:07 G 38458807.70 38458807.88 38458808.07 0.0090 0.0032

Neptune 100584-10-11 12:57 G 38458895.85 38458896.04 38458896.24 0.0090 0.0021

Neptune 100585-01-07 16:47 G 38458984.01 38458984.20 38458984.40 0.0090 0.0010

Earth 100585-02-22 11:02 G 38459029.90 38459029.96 38459030.02 0.2642 0.2189

Moon 100585-02-22 11:31 G 38459029.93 38459029.98 38459030.03 0.2637 0.2315 *

Neptune 100585-04-05 20:38 G 38459072.17 38459072.36 38459072.56 0.0090 0.0002

Neptune 100585-07-03 00:28 G 38459160.33 38459160.52 38459160.72 0.0090 0.0012

Neptune 100585-09-29 04:19 G 38459248.49 38459248.68 38459248.87 0.0090 0.0023

Neptune 100585-12-26 08:09 G 38459336.66 38459336.84 38459337.03 0.0090 0.0034

Mars 100586-02-09 18:28 G 38459382.16 38459382.27 38459382.38 0.1612 0.0561

Neptune 100586-03-24 11:45 G 38459424.83 38459424.99 38459425.17 0.0090 0.0045

Neptune 100586-06-20 15:35 G 38459513.01 38459513.15 38459513.32 0.0090 0.0056

Neptune 100586-09-16 19:26 G 38459601.19 38459601.31 38459601.45 0.0090 0.0067

Neptune 100586-12-13 23:16 G 38459689.39 38459689.47 38459689.58 0.0090 0.0078

Neptune 100587-03-12 02:52 G 38459777.61 38459777.62 38459777.67 0.0090 0.0089

Jupiter 100587-06-03 06:57 G 38459860.65 38459860.79 38459860.94 0.0513 0.0322

Mars 100588-01-15 19:40 G 38460087.25 38460087.32 38460087.39 0.1598 0.1236

Venus 100588-05-18 11:45 G 38460210.83 38460210.99 38460211.16 0.3734 0.0136

Earth 100588-08-22 10:04 G 38460306.77 38460306.92 38460307.08 0.2688 0.0793

Moon 100588-08-22 11:16 G 38460306.82 38460306.97 38460307.13 0.2693 0.0724 *

Moon 100592-02-16 12:43 G 38461579.95 38461580.03 38461580.10 0.2653 0.1969

Earth 100592-02-16 12:28 G 38461579.95 38461580.02 38461580.09 0.2646 0.1955 *

Jupiter 100593-01-30 20:38 G 38461929.25 38461929.36 38461929.47 0.0513 0.0252

Jupiter 100593-04-30 00:14 G 38462018.43 38462018.51 38462018.60 0.0511 0.0379

Mars 100594-09-03 18:57 G 38462510.17 38462510.29 38462510.41 0.1940 0.1320

Mars 100595-07-03 06:14 G 38462812.67 38462812.76 38462812.85 0.1616 0.1002

Saturn 100596-07-31 17:16 G 38463207.04 38463207.22 38463207.41 0.0273 0.0078

Saturn 100596-10-28 16:33 G 38463296.02 38463296.19 38463296.37 0.0274 0.0122

Mars 100597-06-07 07:26 G 38463517.71 38463517.81 38463517.91 0.1601 0.0805

Jupiter 100599-06-20 17:59 G 38464261.14 38464261.25 38464261.35 0.0515 0.0423

Mars 100604-01-25 10:33 G 38465939.78 38465939.94 38465940.11 0.1934 0.0286

Jupiter 100604-11-20 00:57 G 38466239.47 38466239.54 38466239.62 0.0513 0.0417

Mars 100604-11-23 17:45 G 38466243.19 38466243.24 38466243.29 0.1621 0.1452

Jupiter 100605-02-17 04:47 G 38466328.58 38466328.70 38466328.81 0.0511 0.0215

Earth 100605-02-19 05:31 G 38466330.63 38466330.73 38466330.84 0.2645 0.0488

Moon 100605-02-19 06:14 G 38466330.65 38466330.76 38466330.87 0.2648 0.0385 *

Mars 100606-10-29 19:11 G 38466948.18 38466948.30 38466948.41 0.1604 0.0375

Venus 100608-12-23 17:16 G 38467734.14 38467734.22 38467734.30 0.3643 0.2246

Saturn 100609-09-15 23:16 G 38468000.38 38468000.47 38468000.56 0.0291 0.0204

Saturn 100609-12-13 10:33 G 38468088.82 38468088.94 38468089.07 0.0290 0.0047

Saturn 100610-03-11 22:04 G 38468177.30 38468177.42 38468177.54 0.0289 0.0108

Saturn 100610-06-08 09:21 G 38468265.84 38468265.89 38468265.94 0.0287 0.0261

Jupiter 100611-04-09 13:55 G 38468570.90 38468571.08 38468571.25 0.0515 0.0178

Mars 100613-06-16 01:40 G 38469369.56 38469369.57 38469369.59 0.1927 0.1911

Venus 100614-07-09 08:23 G 38469757.75 38469757.85 38469757.95 0.3640 0.0448

Mars 100616-03-21 06:43 G 38470378.66 38470378.78 38470378.90 0.1608 0.0071

Jupiter 100616-12-06 09:21 G 38470638.77 38470638.89 38470639.02 0.0511 0.0060

Earth 100618-02-21 22:47 G 38471081.35 38471081.45 38471081.55 0.2643 0.1012

Moon 100618-02-21 23:16 G 38471081.38 38471081.47 38471081.57 0.2643 0.1162 *

Venus 100620-01-22 23:16 G 38471781.38 38471781.47 38471781.56 0.3638 0.1365

Pluto 100621-04-13 14:09 G 38472228.01 38472228.09 38472228.16 0.0084 0.0069

Pluto 100621-07-10 15:07 G 38472316.03 38472316.13 38472316.25 0.0084 0.0050

Pluto 100621-10-06 16:33 G 38472404.07 38472404.19 38472404.32 0.0084 0.0031

Uranus 100621-12-26 23:45 G 38472485.43 38472485.49 38472485.54 0.0142 0.0128

Pluto 100622-01-02 17:45 G 38472492.11 38472492.24 38472492.38 0.0083 0.0012

Uranus 100622-03-25 03:07 G 38472573.55 38472573.63 38472573.71 0.0142 0.0107

Pluto 100622-03-31 18:57 G 38472580.16 38472580.29 38472580.43 0.0083 0.0008

Uranus 100622-06-21 06:14 G 38472661.67 38472661.76 38472661.87 0.0142 0.0087

Pluto 100622-06-27 20:09 G 38472668.22 38472668.34 38472668.47 0.0083 0.0027

Uranus 100622-09-17 09:50 G 38472749.80 38472749.91 38472750.03 0.0142 0.0066

Pluto 100622-09-23 21:21 G 38472756.28 38472756.39 38472756.51 0.0083 0.0046

Uranus 100622-12-14 13:11 G 38472837.93 38472838.05 38472838.18 0.0142 0.0045

Pluto 100622-12-20 22:19 G 38472844.36 38472844.43 38472844.53 0.0083 0.0065

Jupiter 100623-01-26 09:50 G 38472880.72 38472880.91 38472881.09 0.0514 0.0069

Uranus 100623-03-12 16:47 G 38472926.07 38472926.20 38472926.33 0.0142 0.0024

Uranus 100623-06-08 20:09 G 38473014.21 38473014.34 38473014.47 0.0142 0.0003

Uranus 100623-09-04 23:31 G 38473102.35 38473102.48 38473102.61 0.0142 0.0019

Uranus 100623-12-02 02:52 G 38473190.50 38473190.62 38473190.75 0.0142 0.0040

Uranus 100624-02-28 06:28 G 38473278.65 38473278.77 38473278.89 0.0142 0.0061

Uranus 100624-05-26 09:50 G 38473366.80 38473366.91 38473367.02 0.0142 0.0082

Uranus 100624-08-22 13:11 G 38473454.96 38473455.05 38473455.14 0.0142 0.0103

Uranus 100624-11-18 16:33 G 38473543.13 38473543.19 38473543.26 0.0142 0.0124

Venus 100625-08-07 14:09 G 38473805.05 38473805.09 38473805.14 0.3636 0.3147

Mars 100625-08-11 18:28 G 38473809.16 38473809.27 38473809.38 0.1612 0.0513

Saturn 100625-12-19 16:33 G 38473939.02 38473939.19 38473939.36 0.0272 0.0128

Saturn 100626-03-18 15:50 G 38474027.98 38474028.16 38474028.35 0.0273 0.0070

Saturn 100626-06-15 14:52 G 38474117.10 38474117.12 38474117.17 0.0275 0.0271

Mars 100627-07-17 19:40 G 38474514.25 38474514.32 38474514.39 0.1598 0.1289

Jupiter 100628-09-24 13:55 G 38474948.96 38474949.08 38474949.20 0.0512 0.0107

Earth 100631-02-24 15:50 G 38475832.12 38475832.16 38475832.19 0.2642 0.2495

Moon 100631-02-24 16:04 G 38475832.14 38475832.17 38475832.20 0.2636 0.2488 *

Mars 100634-03-05 19:55 G 38476937.22 38476937.33 38476937.44 0.1940 0.1451

Earth 100634-08-24 17:02 G 38477109.05 38477109.21 38477109.38 0.2688 0.0097

Moon 100634-08-24 18:43 G 38477109.12 38477109.28 38477109.44 0.2692 0.0225 *

Jupiter 100634-11-14 05:16 G 38477190.57 38477190.72 38477190.86 0.0513 0.0318

Mars 100635-01-02 05:59 G 38477239.66 38477239.75 38477239.85 0.1616 0.0955

Mars 100636-12-07 07:26 G 38477944.71 38477944.81 38477944.90 0.1601 0.0858

Moon 100638-02-17 17:31 G 38478382.14 38478382.23 38478382.31 0.2652 0.1597

Earth 100638-02-17 17:16 G 38478382.14 38478382.22 38478382.30 0.2646 0.1651 *

Saturn 100639-02-03 02:09 G 38478732.52 38478732.59 38478732.67 0.0291 0.0240

Saturn 100639-05-02 13:40 G 38478820.95 38478821.07 38478821.20 0.0290 0.0082

Saturn 100639-07-30 01:11 G 38478909.42 38478909.55 38478909.67 0.0289 0.0073

Saturn 100639-10-26 12:28 G 38478997.94 38478998.02 38478998.10 0.0287 0.0227

Jupiter 100640-07-13 18:43 G 38479259.17 38479259.28 38479259.39 0.0513 0.0265

Jupiter 100640-10-10 22:19 G 38479348.34 38479348.43 38479348.52 0.0511 0.0365

Mars 100643-07-26 11:02 G 38480366.80 38480366.96 38480367.13 0.1934 0.0185

Mars 100644-05-24 17:45 G 38480670.18 38480670.24 38480670.29 0.1620 0.1399

Venus 100644-12-24 15:07 G 38480884.02 38480884.13 38480884.25 0.3736 0.2599

Mars 100646-04-29 18:57 G 38481375.18 38481375.29 38481375.41 0.1605 0.0423

Jupiter 100646-12-01 15:07 G 38481591.02 38481591.13 38481591.24 0.0515 0.0413

Earth 100651-02-20 10:19 G 38483132.82 38483132.93 38483133.04 0.2644 0.0177

Moon 100651-02-20 11:02 G 38483132.85 38483132.96 38483133.07 0.2647 0.0085 *

Jupiter 100652-05-01 23:16 G 38483569.41 38483569.47 38483569.54 0.0514 0.0423

Jupiter 100652-07-30 03:07 G 38483658.51 38483658.63 38483658.74 0.0511 0.0211

Mars 100652-12-15 03:07 G 38483796.56 38483796.63 38483796.69 0.1927 0.1765

Saturn 100655-05-08 16:33 G 38484671.05 38484671.19 38484671.34 0.0272 0.0173

Saturn 100655-08-05 15:50 G 38484759.97 38484760.16 38484760.35 0.0273 0.0024

Mars 100655-09-20 06:43 G 38484805.66 38484805.78 38484805.90 0.1608 0.0019

Saturn 100655-11-02 15:07 G 38484849.03 38484849.13 38484849.24 0.0274 0.0224

Jupiter 100658-09-19 10:47 G 38485900.77 38485900.95 38485901.12 0.0514 0.0163

Venus 100660-01-14 23:30 G 38486383.45 38486383.48 38486383.52 0.3644 0.3433

Uranus 100663-01-18 18:57 G 38487483.22 38487483.29 38487483.39 0.0136 0.0122

Uranus 100663-04-17 02:52 G 38487571.49 38487571.62 38487571.77 0.0136 0.0094

Uranus 100663-07-14 10:33 G 38487659.78 38487659.94 38487660.12 0.0136 0.0067

Uranus 100663-10-10 18:28 G 38487748.08 38487748.27 38487748.46 0.0136 0.0039

Uranus 100664-01-07 02:09 G 38487836.39 38487836.59 38487836.78 0.0136 0.0011

Neptune 100664-02-20 08:23 G 38487880.82 38487880.85 38487880.91 0.0088 0.0082

Earth 100664-02-23 03:21 G 38487883.55 38487883.64 38487883.74 0.2643 0.1310

Moon 100664-02-23 04:04 G 38487883.57 38487883.67 38487883.76 0.2641 0.1389 *

Uranus 100664-04-04 09:50 G 38487924.71 38487924.91 38487925.10 0.0136 0.0017

Jupiter 100664-05-18 07:40 G 38487968.69 38487968.82 38487968.94 0.0511 0.0050

Neptune 100664-05-18 09:50 G 38487968.85 38487968.91 38487968.98 0.0088 0.0075 *

Uranus 100664-07-01 17:30 G 38488013.04 38488013.23 38488013.41 0.0136 0.0044

Neptune 100664-08-14 11:02 G 38488056.88 38488056.96 38488057.05 0.0088 0.0068

Uranus 100664-09-28 00:57 G 38488101.38 38488101.54 38488101.71 0.0136 0.0072

Neptune 100664-11-10 12:28 G 38488144.92 38488145.02 38488145.11 0.0088 0.0061

Uranus 100664-12-25 08:23 G 38488189.73 38488189.85 38488190.00 0.0136 0.0100

Neptune 100665-02-06 13:26 G 38488232.97 38488233.06 38488233.17 0.0088 0.0055

Mars 100665-02-09 18:14 G 38488236.15 38488236.26 38488236.38 0.1612 0.0463

Uranus 100665-03-23 16:18 G 38488278.12 38488278.18 38488278.25 0.0136 0.0127

Neptune 100665-05-05 14:38 G 38488321.01 38488321.11 38488321.23 0.0088 0.0048

Venus 100665-07-30 14:38 G 38488407.02 38488407.11 38488407.20 0.3642 0.1604

Neptune 100665-08-01 16:04 G 38488409.06 38488409.17 38488409.29 0.0088 0.0041

Neptune 100665-10-28 17:16 G 38488497.10 38488497.22 38488497.35 0.0088 0.0034

Neptune 100666-01-24 18:28 G 38488585.15 38488585.27 38488585.40 0.0088 0.0027

Neptune 100666-04-22 19:54 G 38488673.20   38488673.33   38488673.46 0.0088 0.0020

Neptune 100666-07-19 21:06 G 38488761.25   38488761.38   38488761.51 0.0088 0.0013

Neptune 100666-10-15 22:18 G 38488849.30   38488849.43   38488849.56 0.0088 0.0006

Neptune 100667-01-11 23:30 G 38488937.35   38488937.48   38488937.62 0.0088 0.0002

Mars   100667-01-15 19:40 G 38488941.26   38488941.32   38488941.38 0.1598 0.1344

Neptune 100667-04-10 00:57 G 38489025.40   38489025.54   38489025.67 0.0088 0.0008

Neptune 100667-07-07 01:54 G 38489113.46   38489113.58   38489113.72 0.0088 0.0015

Neptune 100667-10-03 03:21 G 38489201.51   38489201.64   38489201.77 0.0088 0.0021

Neptune 100667-12-30 04:33 G 38489289.57   38489289.69   38489289.82 0.0088 0.0028

Neptune 100668-03-27 05:45 G 38489377.62   38489377.74   38489377.86 0.0088 0.0035

Saturn   100668-06-22 05:16 G 38489464.69   38489464.72   38489464.76 0.0291 0.0277

Neptune 100668-06-23 06:57 G 38489465.68   38489465.79   38489465.91 0.0088 0.0042

Saturn   100668-09-18 17:02 G 38489553.09   38489553.21   38489553.32 0.0290 0.0118

Neptune 100668-09-19 08:09 G 38489553.74   38489553.84   38489553.96 0.0088 0.0049

Saturn   100668-12-16 04:18 G 38489641.55   38489641.68   38489641.81 0.0289 0.0038

Neptune 100668-12-16 09:21 G 38489641.80   38489641.89   38489642.00 0.0088 0.0056 *

Neptune 100669-03-14 10:47 G 38489729.86   38489729.95   38489730.04 0.0088 0.0062

Saturn   100669-03-14 15:35 G 38489730.06   38489730.15   38489730.25 0.0288 0.0192

Neptune 100669-06-10 11:59 G 38489817.92   38489818.00   38489818.08 0.0088 0.0069

Neptune 100669-09-06 13:11 G 38489905.99   38489906.05   38489906.12 0.0088 0.0076

Neptune 100669-12-03 14:09 G 38489994.06   38489994.09   38489994.14 0.0088 0.0083

Jupiter 100670-07-08 06:28 G 38490210.59   38490210.77   38490210.96 0.0514 0.0084

Venus   100671-02-13 05:45 G 38490430.63   38490430.74   38490430.84 0.3640 0.0257

Mars   100673-09-03 20:52 G 38491364.27   38491364.37   38491364.46 0.1940 0.1579

Mars   100674-07-03 05:59 G 38491666.66   38491666.75   38491666.85 0.1616 0.0904

Jupiter 100676-03-06 12:28 G 38492278.89   38492279.02   38492279.14 0.0512 0.0108

Mars   100676-06-07 07:11 G 38492371.71   38492371.80   38492371.90 0.1601 0.0910

Venus   100676-08-28 20:38 G 38492454.28   38492454.36   38492454.44 0.3637 0.1992

Earth   100680-08-25 00:14 G 38493911.35   38493911.51   38493911.66 0.2688 0.0647

Moon   100680-08-25 01:54 G 38493911.43   38493911.58   38493911.73 0.2691 0.0880 *

Jupiter 100682-04-26 02:23 G 38494520.46 38494520.60 38494520.75 0.0514 0.0327

Mars 100683-01-24 12:28 G 38494793.85 38494794.02 38494794.19 0.1934 0.0035

Mars 100683-11-23 17:30 G 38495097.17 38495097.23 38495097.30 0.1620 0.1353

Earth 100684-02-18 22:04 G 38495184.33 38495184.42 38495184.51 0.2645 0.1350

Moon 100684-02-18 22:18 G 38495184.34 38495184.43 38495184.53 0.2651 0.1348 *

Saturn 100684-09-24 15:21 G 38495403.04 38495403.14 38495403.24 0.0272 0.0228

Saturn 100684-12-22 14:23 G 38495491.91 38495492.10 38495492.30 0.0273 0.0032

Saturn 100685-03-21 13:40 G 38495580.92 38495581.07 38495581.23 0.0274 0.0167

Mars 100685-10-28 18:57 G 38495802.18 38495802.29 38495802.40 0.1604 0.0473

Jupiter 100687-12-24 16:47 G 38496589.10 38496589.20 38496589.31 0.0513 0.0272

Jupiter 100688-03-22 20:23 G 38496678.26 38496678.35 38496678.44 0.0510 0.0357

Mars 100692-06-15 03:35 G 38498223.57 38498223.65 38498223.74 0.1927 0.1659

Jupiter 100694-05-13 13:26 G 38498920.96 38498921.06 38498921.17 0.0515 0.0422

Mars 100695-03-21 06:42 G 38499232.66 38499232.78 38499232.89 0.1608 0.0049

Venus 100696-01-15 04:47 G 38499532.60 38499532.70 38499532.80 0.3732 0.2913

Earth 100697-02-20 15:06 G 38499935.02 38499935.13 38499935.24 0.2644 0.0132

Moon 100697-02-20 15:50 G 38499935.05 38499935.16 38499935.26 0.2647 0.0283 *

Saturn 100698-02-05 19:26 G 38500285.21 38500285.31 38500285.42 0.0291 0.0160

Saturn 100698-05-05 06:57 G 38500373.67 38500373.79 38500373.92 0.0289 0.0009

Saturn 100698-08-01 18:14 G 38500462.16 38500462.26 38500462.38 0.0288 0.0154

Jupiter 100699-10-12 21:35 G 38500899.33 38500899.40 38500899.47 0.0513 0.0431

Jupiter 100700-01-10 01:11 G 38500988.44 38500988.55 38500988.67 0.0511 0.0203

Mars 100704-08-11 18:14 G 38502663.15 38502663.26 38502663.38 0.1612 0.0410

Uranus 100706-01-17 07:11 G 38503186.74 38503186.80 38503186.87 0.0142 0.0122

Jupiter 100706-03-02 08:23 G 38503230.67 38503230.85 38503231.03 0.0514 0.0161

Uranus 100706-04-15 10:33 G 38503274.85 38503274.94 38503275.03 0.0142 0.0101

Uranus 100706-07-12 14:09 G 38503362.98 38503363.09 38503363.19 0.0142 0.0080

Mars 100706-07-17 19:40 G 38503368.26 38503368.32 38503368.37 0.1598 0.1397

Uranus 100706-10-08 17:30 G 38503451.11 38503451.23 38503451.35 0.0142 0.0059

Uranus 100707-01-04 20:52 G 38503539.24 38503539.37 38503539.50 0.0142 0.0038

Uranus 100707-04-03 00:14 G 38503627.38 38503627.51 38503627.64 0.0142 0.0018

Uranus 100707-06-30 03:35 G 38503715.52 38503715.65 38503715.79 0.0142 0.0006

Uranus 100707-09-26 07:11 G 38503803.67 38503803.80 38503803.93 0.0142 0.0025

Uranus 100707-12-23 10:18 G 38503891.82 38503891.93 38503892.06 0.0142 0.0047

Uranus 100708-03-20 13:54 G 38503979.97 38503980.08 38503980.20 0.0142 0.0067

Uranus 100708-06-16 17:16 G 38504068.12 38504068.22 38504068.33 0.0142 0.0088

Uranus 100708-09-12 20:38 G 38504156.29 38504156.36 38504156.45 0.0142 0.0109

Uranus 100708-12-09 23:59 G 38504244.46 38504244.50 38504244.56 0.0142 0.0131

Earth 100710-02-24 08:09 G 38504685.75 38504685.84 38504685.92 0.2643 0.1616

Moon 100710-02-24 08:38 G 38504685.78 38504685.86 38504685.94 0.2639 0.1693 *

Jupiter 100711-10-30 05:59 G 38505298.63 38505298.75 38505298.88 0.0512 0.0051

Mars 100713-03-05 21:50 G 38505791.33 38505791.41 38505791.48 0.1941 0.1713

Earth 100713-08-23 21:21 G 38505962.33 38505962.39 38505962.45 0.2687 0.2473

Moon 100713-08-23 22:33 G 38505962.35 38505962.44 38505962.52 0.2692 0.2257 *

Mars 100714-01-02 05:59 G 38506093.65 38506093.75 38506093.85 0.1616 0.0851

Saturn 100714-05-12 13:54 G 38506223.90 38506224.08 38506224.26 0.0273 0.0083

Saturn 100714-08-09 13:11 G 38506312.87 38506313.05 38506313.22 0.0274 0.0116

Mars 100715-12-08 07:11 G 38506798.71 38506798.80 38506798.90 0.1601 0.0966

Venus 100716-08-21 20:52 G 38507056.31 38507056.37 38507056.44 0.3644 0.2784

Earth 100717-02-17 09:35 G 38507235.88 38507235.90 38507235.93 0.2647 0.2527

Moon 100717-02-17 09:35 G 38507235.89 38507235.90 38507235.92 0.2653 0.2609 *

Jupiter 100717-12-19 04:04 G 38507540.49 38507540.67 38507540.86 0.0514 0.0088

Venus 100722-03-07 11:59 G 38509079.90 38509080.00 38509080.10 0.3641 0.0969

Mars 100722-07-26 13:26 G 38509220.89 38509221.06 38509221.23 0.1934 0.0103

Mars 100723-05-25 17:30 G 38509524.17 38509524.23 38509524.30 0.1620 0.1302

Jupiter 100723-08-18 10:47 G 38509608.82 38509608.95 38509609.07 0.0512 0.0112

Mars 100725-04-29 18:57 G 38510229.18 38510229.29 38510229.40 0.1604 0.0526

Earth 100726-08-27 06:57 G 38510713.65 38510713.79 38510713.93 0.2689 0.1352

Moon 100726-08-27 08:52 G 38510713.74 38510713.87 38510714.00 0.2691 0.1645 *

Saturn 100727-06-26 22:33 G 38511017.35 38511017.44 38511017.53 0.0291 0.0198

Venus 100727-09-21 02:52 G 38511103.52 38511103.62 38511103.72 0.3639 0.0839

Saturn 100727-09-23 10:04 G 38511105.79 38511105.92 38511106.05 0.0290 0.0040

Saturn 100727-12-20 21:21 G 38511194.27 38511194.39 38511194.51 0.0289 0.0116

Saturn 100728-03-18 08:38 G 38511282.82 38511282.86 38511282.91 0.0288 0.0268

Jupiter 100729-10-06 23:45 G 38511850.35 38511850.49 38511850.63 0.0514 0.0336

Earth 100730-02-20 02:52 G 38511986.52 38511986.62 38511986.71 0.2645 0.1054

Moon 100730-02-20 03:21 G 38511986.53 38511986.64 38511986.74 0.2650 0.0913 *

Mars 100731-12-16 04:47 G 38512650.60 38512650.70 38512650.80 0.1928 0.1522

Venus 100733-04-05 17:59 G 38513127.18 38513127.25 38513127.31 0.3637 0.2618

Mars 100734-09-20 06:28 G 38513659.66 38513659.77 38513659.89 0.1608 0.0106

Jupiter 100735-06-06 15:35 G 38513919.04 38513919.15 38513919.26 0.0512 0.0267

Jupiter 100735-09-03 19:11 G 38514008.21 38514008.30 38514008.39 0.0510 0.0361

Jupiter 100741-10-24 11:16 G 38516250.87 38516250.97 38516251.08 0.0515 0.0420

Earth 100743-02-22 19:54 G 38516737.22 38516737.33 38516737.43 0.2644 0.0447

Moon 100743-02-22 20:23 G 38516737.25 38516737.35 38516737.46 0.2645 0.0499 *

Saturn 100743-09-29 11:59 G 38516955.83 38516956.00 38516956.16 0.0272 0.0142

Saturn 100743-12-27 11:02 G 38517044.77 38517044.96 38517045.15 0.0273 0.0055

Mars 100744-02-10 18:14 G 38517090.15 38517090.26 38517090.38 0.1612 0.0358

Saturn 100744-03-25 10:18 G 38517133.87 38517133.93 38517134.00 0.0274 0.0254

Mars 100746-01-15 19:40 G 38517795.27 38517795.32 38517795.36 0.1598 0.1449

Uranus 100747-02-09 02:23 G 38518184.51 38518184.60 38518184.72 0.0136 0.0115

Jupiter 100747-03-25 20:09 G 38518229.27 38518229.34 38518229.40 0.0513 0.0431

Uranus 100747-05-08 10:18 G 38518272.78 38518272.93 38518273.08 0.0136 0.0087

Jupiter 100747-06-22 23:45 G 38518318.37 38518318.49 38518318.61 0.0511 0.0201

Uranus 100747-08-04 17:45 G 38518361.08 38518361.24 38518361.43 0.0136 0.0060

Uranus 100747-11-01 01:40 G 38518449.38 38518449.57 38518449.77 0.0136 0.0031

Uranus 100748-01-28 09:35 G 38518537.70 38518537.90 38518538.09 0.0136 0.0004

Neptune 100748-01-28 11:02 G 38518537.92 38518537.96 38518538.04 0.0090 0.0085 *

Uranus 100748-04-25 17:16 G 38518626.02 38518626.22 38518626.41 0.0136 0.0025

Neptune 100748-04-25 14:52 G 38518626.03 38518626.12 38518626.25 0.0090 0.0074 *

Neptune 100748-07-22 18:42 G 38518714.16 38518714.28 38518714.44 0.0090 0.0063

Uranus 100748-07-23 00:42 G 38518714.36 38518714.53 38518714.72 0.0136 0.0052 *

Neptune 100748-10-18 22:47 G 38518802.30 38518802.45 38518802.62 0.0090 0.0052

Uranus 100748-10-19 08:23 G 38518802.70 38518802.85 38518803.01 0.0136 0.0080

Neptune 100749-01-15 02:38 G 38518890.44 38518890.61 38518890.79 0.0090 0.0041

Uranus 100749-01-15 16:04 G 38518891.06 38518891.17 38518891.29 0.0136 0.0107

Neptune 100749-04-13 06:28 G 38518978.59 38518978.77 38518978.96 0.0090 0.0030

Uranus 100749-04-13 23:30 G 38518979.47 38518979.48 38518979.52 0.0136 0.0135

Neptune 100749-07-10 10:18 G 38519066.74 38519066.93 38519067.13 0.0090 0.0019

Neptune 100749-10-06 14:09 G 38519154.90 38519155.09 38519155.29 0.0090 0.0008

Neptune 100750-01-02 17:59 G 38519243.05 38519243.25 38519243.45 0.0090 0.0003

Neptune 100750-03-31 21:50 G 38519331.22 38519331.41 38519331.61 0.0090 0.0014

Neptune 100750-06-28 01:40 G 38519419.38 38519419.57 38519419.76 0.0090 0.0025

Neptune 100750-09-24 05:16 G 38519507.55 38519507.72 38519507.91 0.0090 0.0036

Neptune 100750-12-21 09:06 G 38519595.72 38519595.88 38519596.06 0.0090 0.0047

Neptune 100751-03-19 12:57 G 38519683.90 38519684.04 38519684.20 0.0090 0.0058

Neptune 100751-06-15 16:33 G 38519772.08 38519772.19 38519772.33 0.0090 0.0069

Neptune 100751-09-11 20:23 G 38519860.28 38519860.35 38519860.46 0.0090 0.0080

Venus 100752-08-22 08:09 G 38520205.68 38520205.84 38520206.00 0.3734 0.0430

Mars 100752-09-03 22:47 G 38520218.40 38520218.45 38520218.50 0.1940 0.1844

Mars 100753-07-03 05:59 G 38520520.65 38520520.75 38520520.85 0.1616 0.0802

Jupiter 100753-08-12 07:11 G 38520560.62 38520560.80 38520560.97 0.0514 0.0172

Mars 100755-06-08 07:11 G 38521225.71 38521225.80 38521225.89 0.1601 0.1015

Earth 100756-02-25 12:42 G 38521487.96 38521488.03 38521488.11 0.2643 0.1920

Moon 100756-02-25 13:26 G 38521487.99 38521488.06 38521488.12 0.2638 0.2020 *

Saturn 100756-11-13 00:28 G 38521749.46 38521749.52 38521749.59 0.0291 0.0247

Saturn 100757-02-09 11:59 G 38521837.88 38521838.00 38521838.13 0.0290 0.0089

Saturn 100757-05-08 23:30 G 38521926.36 38521926.48 38521926.61 0.0289 0.0068

Saturn 100757-08-05 10:47 G 38522014.87 38522014.95 38522015.04 0.0288 0.0222

Jupiter 100759-04-11 04:33 G 38522628.56 38522628.69 38522628.82 0.0512 0.0045

Earth 100759-08-25 04:33 G 38522764.57 38522764.69 38522764.81 0.2687 0.1735

Moon 100759-08-25 05:59 G 38522764.62 38522764.75 38522764.88 0.2691 0.1620 *

Mars 100762-01-24 13:54 G 38523647.92 38523648.08 38523648.25 0.1934 0.0215

Mars 100762-11-23 17:30 G 38523951.16 38523951.23 38523951.31 0.1620 0.1249

Moon 100763-02-18 14:23 G 38524038.05 38524038.10 38524038.16 0.2652 0.2179

Earth 100763-02-18 14:23 G 38524038.05 38524038.10 38524038.16 0.2646 0.2225 *

Mars 100764-10-28 18:57 G 38524656.18 38524656.29 38524656.40 0.1604 0.0578

Jupiter 100765-05-31 02:23 G 38524870.41 38524870.60 38524870.78 0.0514 0.0083

Jupiter 100771-01-28 09:21 G 38526938.77 38526938.89 38526939.02 0.0513 0.0110

Mars 100771-06-16 05:45 G 38527077.63 38527077.74 38527077.86 0.1928 0.1386

Earth 100772-08-27 14:09 G 38527515.98 38527516.09 38527516.19 0.2689 0.2080

Moon 100772-08-27 15:50 G 38527516.09 38527516.16 38527516.24 0.2690 0.2380 *

Saturn 100773-02-15 10:18 G 38527687.81 38527687.93 38527688.07 0.0272 0.0199

Venus 100773-03-28 18:14 G 38527729.18 38527729.26 38527729.34 0.3643 0.2142

Saturn 100773-05-15 09:50 G 38527776.71 38527776.91 38527777.10 0.0273 0.0007

Saturn 100773-08-12 08:52 G 38527865.74 38527865.87 38527866.01 0.0274 0.0197

Mars 100774-03-21 06:42 G 38528086.66 38528086.78 38528086.89 0.1608 0.0148

Pluto 100774-05-11 19:26 G 38528138.29 38528138.31 38528138.39 0.0060 0.0058

Pluto 100774-08-07 20:52 G 38528226.28 38528226.37 38528226.51 0.0060 0.0048

Pluto 100774-11-03 22:04 G 38528314.30 38528314.42 38528314.59 0.0060 0.0038

Pluto 100775-01-30 23:30 G 38528402.33 38528402.48 38528402.67 0.0060 0.0028

Pluto 100775-04-29 01:11 G 38528490.37 38528490.55 38528490.73 0.0060 0.0018

Pluto 100775-07-26 02:23 G 38528578.41 38528578.60 38528578.79 0.0060 0.0008

Pluto 100775-10-22 03:35 G 38528666.46 38528666.65 38528666.85 0.0060 0.0003

Pluto 100776-01-18 05:02 G 38528754.52 38528754.71 38528754.89 0.0060 0.0013

Earth 100776-02-21 07:26 G 38528788.71 38528788.81 38528788.92 0.2645 0.0746

Moon 100776-02-21 08:09 G 38528788.73 38528788.84 38528788.94 0.2649 0.0726 *

Pluto 100776-04-15 06:14 G 38528842.59 38528842.76 38528842.94 0.0061 0.0023

Pluto 100776-07-12 06:57 G 38528930.66 38528930.79 38528930.97 0.0061 0.0034

Pluto 100776-10-08 08:23 G 38529018.74 38529018.85 38529019.00 0.0061 0.0044

Pluto 100777-01-04 09:35 G 38529106.83 38529106.90 38529107.01 0.0061 0.0054

Jupiter 100777-03-18 22:04 G 38529180.28 38529180.42 38529180.57 0.0513 0.0328

Venus 100778-10-12 09:21 G 38529752.79 38529752.89 38529752.99 0.3641 0.0366

Jupiter 100782-11-16 14:09 G 38531248.98 38531249.09 38531249.20 0.0513 0.0268

Jupiter 100783-02-13 17:45 G 38531338.15 38531338.24 38531338.33 0.0510 0.0361

Mars 100783-08-11 18:14 G 38531517.15 38531517.26 38531517.37 0.1612 0.0305

Venus 100784-04-27 00:14 G 38531776.42 38531776.51 38531776.60 0.3638 0.1457

Mars 100785-07-16 19:40 G 38532222.28 38532222.32 38532222.35 0.1597 0.1506

Saturn 100786-04-02 03:06 G 38532481.63 38532481.63 38532481.64 0.0292 0.0291

Saturn 100786-06-29 14:38 G 38532570.00 38532570.11 38532570.23 0.0291 0.0132

Saturn 100786-09-26 02:09 G 38532658.46 38532658.59 38532658.72 0.0290 0.0027

Saturn 100786-12-23 13:26 G 38532746.97 38532747.06 38532747.17 0.0288 0.0182

Earth 100789-02-23 00:28 G 38533539.42 38533539.52 38533539.62 0.2644 0.0737

Moon 100789-02-23 01:11 G 38533539.45 38533539.55 38533539.65 0.2642 0.0902 *

Jupiter 100789-04-05 08:52 G 38533580.77 38533580.87 38533580.98 0.0515 0.0416

Uranus 100789-11-10 11:02 G 38533799.94 38533799.96 38533800.00 0.0142 0.0137

Venus 100789-11-10 15:06 G 38533800.09 38533800.13 38533800.18 0.3636 0.3224

Uranus 100790-02-06 14:38 G 38533888.04 38533888.11 38533888.19 0.0142 0.0116

Uranus 100790-05-05 17:59 G 38533976.16 38533976.25 38533976.35 0.0142 0.0095

Uranus 100790-08-01 21:35 G 38534064.29 38534064.40 38534064.51 0.0142 0.0074

Uranus 100790-10-29 00:57 G 38534152.42 38534152.54 38534152.66 0.0142 0.0053

Uranus 100791-01-25 04:18 G 38534240.55 38534240.68 38534240.81 0.0142 0.0032

Uranus 100791-04-23 07:40 G 38534328.69 38534328.82 38534328.95 0.0142 0.0012

Uranus 100791-07-20 11:16 G 38534416.84 38534416.97 38534417.10 0.0142 0.0010

Uranus 100791-10-16 14:38 G 38534504.98 38534505.11 38534505.24 0.0142 0.0031

Uranus 100792-01-12 17:59 G 38534593.13 38534593.25 38534593.37 0.0142 0.0052

Uranus 100792-04-09 21:21 G 38534681.28 38534681.39 38534681.51 0.0142 0.0073

Uranus 100792-07-07 00:42 G 38534769.44 38534769.53 38534769.63 0.0142 0.0095

Uranus 100792-10-03 04:18 G 38534857.61 38534857.68 38534857.76 0.0142 0.0115

Uranus 100792-12-30 07:40 G 38534945.79 38534945.82 38534945.86 0.0142 0.0137

Mars 100793-01-01 05:59 G 38534947.64 38534947.75 38534947.85 0.1616 0.0753

Jupiter 100794-09-04 18:57 G 38535559.22 38535559.29 38535559.37 0.0513 0.0421

Jupiter 100794-12-02 22:47 G 38535648.33 38535648.45 38535648.56 0.0511 0.0210

Mars 100794-12-07 07:11 G 38535652.71 38535652.80 38535652.89 0.1601 0.1067

Jupiter 100801-01-22 05:16 G 38537890.54 38537890.72 38537890.89 0.0515 0.0176

Mars 100801-07-25 15:06 G 38538074.97 38538075.13 38538075.30 0.1935 0.0358

Earth 100802-02-25 17:30 G 38538290.18 38538290.23 38538290.29 0.2643 0.2223

Moon 100802-02-25 17:59 G 38538290.20 38538290.25 38538290.30 0.2638 0.2252 *

Mars 100802-05-24 17:30 G 38538378.15 38538378.23 38538378.31 0.1620 0.1200

Saturn 100802-07-05 08:09 G 38538419.79 38538419.84 38538419.89 0.0271 0.0261

Saturn 100802-10-02 07:11 G 38538508.61 38538508.80 38538508.99 0.0272 0.0067

Saturn 100802-12-30 06:14 G 38538597.60 38538597.76 38538597.93 0.0273 0.0130

Mars 100804-04-28 18:57 G 38539083.18 38539083.29 38539083.40 0.1604 0.0630

Earth 100805-08-25 11:30 G 38539566.83 38539566.98 38539567.13 0.2687 0.1020

Moon 100805-08-25 13:11 G 38539566.89 38539567.05 38539567.21 0.2691 0.0645 *

Jupiter 100806-09-21 03:21 G 38539958.51 38539958.64 38539958.76 0.0511 0.0050

Earth 100809-02-18 19:11 G 38540840.23 38540840.30 38540840.37 0.2646 0.1921

Moon 100809-02-18 19:26 G 38540840.24 38540840.31 38540840.38 0.2652 0.1907 *

Venus 100809-03-29 11:30 G 38540878.84 38540878.98 38540879.11 0.3735 0.2065

Mars 100810-12-15 06:42 G 38541504.65 38541504.78 38541504.90 0.1928 0.1269

Jupiter 100812-11-10 01:11 G 38542200.37 38542200.55 38542200.74 0.0514 0.0067

Mars 100813-09-19 06:28 G 38542513.66 38542513.77 38542513.89 0.1608 0.0193

Saturn 100815-11-16 16:18 G 38543302.09 38543302.18 38543302.28 0.0291 0.0186

Saturn 100816-02-13 03:50 G 38543390.54 38543390.66 38543390.79 0.0290 0.0029

Saturn 100816-05-11 15:21 G 38543479.02 38543479.14 38543479.26 0.0289 0.0128

Saturn 100816-08-08 02:38 G 38543567.59 38543567.61 38543567.63 0.0288 0.0282

Jupiter 100818-07-10 08:09 G 38544268.71 38544268.84 38544268.96 0.0512 0.0106

Earth 100822-02-21 12:14 G 38545590.90 38545591.01 38545591.12 0.2645 0.0441

Moon 100822-02-21 12:42 G 38545590.93 38545591.03 38545591.14 0.2648 0.0299 *

Mars 100823-02-09 18:14 G 38545944.15 38545944.26 38545944.38 0.1612 0.0252

Venus 100824-04-19 00:28 G 38546378.48 38546378.52 38546378.56 0.3645 0.3328

Jupiter 100824-08-28 20:52 G 38546510.22 38546510.37 38546510.51 0.0513 0.0316

Mars 100825-01-14 19:26 G 38546649.29 38546649.31 38546649.34 0.1598 0.1557

Neptune 100828-08-21 06:42 G 38547963.77 38547963.78 38547963.80 0.0088 0.0087

Neptune 100828-11-17 07:54 G 38548051.79 38548051.83 38548051.89 0.0088 0.0080

Neptune 100829-02-13 09:21 G 38548139.82 38548139.89 38548139.96 0.0088 0.0073

Neptune 100829-05-12 10:33 G 38548227.86 38548227.94 38548228.03 0.0088 0.0066

Neptune 100829-08-08 11:30 G 38548315.90 38548315.98 38548316.09 0.0088 0.0060

Venus 100829-11-02 15:35 G 38548402.06 38548402.15 38548402.24 0.3643 0.1520

Neptune 100829-11-04 12:57 G 38548403.94 38548404.04 38548404.15 0.0088 0.0053

Neptune 100830-01-31 14:09 G 38548491.98 38548492.09 38548492.21 0.0088 0.0046

Jupiter 100830-04-28 12:57 G 38548578.93 38548579.04 38548579.15 0.0513 0.0262

Neptune 100830-04-29 15:21 G 38548580.03 38548580.14 38548580.27 0.0088 0.0039

Neptune 100830-07-26 16:47 G 38548668.08 38548668.20 38548668.32 0.0088 0.0032

Jupiter 100830-07-26 16:33 G 38548668.10 38548668.19 38548668.28 0.0511 0.0368 *

Neptune 100830-10-22 17:59 G 38548756.13 38548756.25 38548756.38 0.0088 0.0025

Uranus 100830-12-03 02:38 G 38548797.58 38548797.61 38548797.66 0.0136 0.0133

Neptune 100831-01-18 19:11 G 38548844.18 38548844.30 38548844.43 0.0088 0.0018

Uranus 100831-03-01 10:33 G 38548885.82 38548885.94 38548886.07 0.0136 0.0105

Neptune 100831-04-16 20:23 G 38548932.23 38548932.35 38548932.49 0.0088 0.0012

Uranus 100831-05-28 17:59 G 38548974.10 38548974.25 38548974.42 0.0136 0.0077

Neptune 100831-07-13 21:50 G 38549020.28 38549020.41 38549020.54 0.0088 0.0005

Uranus 100831-08-25 01:54 G 38549062.40 38549062.58 38549062.77 0.0136 0.0049

Neptune 100831-10-09 23:02 G 38549108.33 38549108.46 38549108.59 0.0088 0.0002

Uranus 100831-11-21 09:35 G 38549150.71 38549150.90 38549151.10 0.0136 0.0022

Neptune 100832-01-06 00:14 G 38549196.38 38549196.51 38549196.64 0.0088 0.0009

Uranus 100832-02-17 17:16 G 38549239.03 38549239.22 38549239.42 0.0136 0.0007

Saturn 100832-02-19 05:02 G 38549240.55 38549240.71 38549240.89 0.0272 0.0129

Neptune 100832-04-03 01:26 G 38549284.43 38549284.56 38549284.69 0.0088 0.0016

Uranus 100832-05-16 00:57 G 38549327.36 38549327.54 38549327.74 0.0136 0.0034

Saturn 100832-05-18 04:18 G 38549329.50 38549329.68 38549329.87 0.0273 0.0068

Neptune 100832-06-30 02:38 G 38549372.49 38549372.61 38549372.74 0.0088 0.0023

Mars 100832-07-02 05:59 G 38549374.64 38549374.75 38549374.85 0.1615 0.0698

Uranus 100832-08-12 08:38 G 38549415.69 38549415.86 38549416.04 0.0136 0.0062

Saturn 100832-08-15 03:35 G 38549418.61 38549418.65 38549418.69 0.0274 0.0267

Neptune 100832-09-26 03:50 G 38549460.54 38549460.66 38549460.79 0.0088 0.0030

Uranus 100832-11-08 16:18 G 38549504.04 38549504.18 38549504.33 0.0136 0.0089

Neptune 100832-12-23 05:02 G 38549548.60 38549548.71 38549548.84 0.0088 0.0037

Uranus 100833-02-04 23:45 G 38549592.41 38549592.49 38549592.60 0.0136 0.0117

Neptune 100833-03-21 06:14 G 38549636.66 38549636.76 38549636.88 0.0088 0.0044

Neptune 100833-06-17 07:26 G 38549724.71 38549724.81 38549724.93 0.0088 0.0051

Neptune 100833-09-13 08:52 G 38549812.78 38549812.87 38549812.97 0.0088 0.0057

Neptune 100833-12-10 10:04 G 38549900.84 38549900.92 38549901.01 0.0088 0.0064

Neptune 100834-03-08 11:16 G 38549988.90 38549988.97 38549989.05 0.0088 0.0071

Neptune 100834-06-04 12:28 G 38550076.97 38550077.02 38550077.09 0.0088 0.0078

Mars 100834-06-07 07:11 G 38550079.72 38550079.80 38550079.88 0.1601 0.1123

Neptune 100834-08-31 13:40 G 38550165.05 38550165.07 38550165.11 0.0088 0.0084

Earth 100835-02-24 05:16 G 38550341.62 38550341.72 38550341.82 0.2644 0.1043

Moon 100835-02-24 05:45 G 38550341.65 38550341.74 38550341.84 0.2640 0.1083 *

Venus 100835-05-19 06:28 G 38550425.67 38550425.77 38550425.87 0.3640 0.0309

Jupiter 100836-09-15 07:40 G 38550910.73 38550910.82 38550910.93 0.0515 0.0433

Venus 100840-12-01 21:35 G 38552449.31 38552449.40 38552449.48 0.3638 0.2076

Mars 100841-01-23 16:18 G 38552502.02 38552502.18 38552502.34 0.1935 0.0494

Mars 100841-11-22 17:30 G 38552805.15 38552805.23 38552805.31 0.1620 0.1151

Jupiter 100842-02-14 17:45 G 38552889.17 38552889.24 38552889.31 0.0513 0.0417

Jupiter 100842-05-14 21:21 G 38552978.28 38552978.39 38552978.51 0.0511 0.0215

Mars 100843-10-28 18:57 G 38553510.18 38553510.29 38553510.39 0.1604 0.0685

Saturn 100845-04-04 18:28 G 38554034.20 38554034.27 38554034.35 0.0292 0.0235

Saturn 100845-07-02 05:59 G 38554122.63 38554122.75 38554122.88 0.0291 0.0076

Saturn 100845-09-28 17:30 G 38554211.11 38554211.23 38554211.36 0.0290 0.0082

Saturn 100845-12-26 04:47 G 38554299.63 38554299.70 38554299.78 0.0288 0.0237

Earth 100848-02-26 22:18 G 38555092.40 38555092.43 38555092.46 0.2643 0.2527

Moon 100848-02-26 22:33 G 38555092.43 38555092.44 38555092.45 0.2637 0.2613 *

Jupiter 100848-07-04 03:21 G 38555220.46 38555220.64 38555220.81 0.0515 0.0178

Mars 100850-06-15 07:26 G 38555931.68 38555931.81 38555931.95 0.1928 0.1142

Mars 100851-04-15 05:02 G 38556235.70 38556235.71 38556235.73 0.1624 0.1604

Earth 100851-08-26 18:28 G 38556369.11 38556369.27 38556369.43 0.2688 0.0294

Moon 100851-08-26 20:23 G 38556369.19 38556369.35 38556369.51 0.2691 0.0162 *

Mars 100853-03-20 06:28 G 38556940.65 38556940.77 38556940.89 0.1608 0.0241

Jupiter 100854-03-03 02:38 G 38557288.48 38557288.61 38557288.73 0.0511 0.0066

Earth 100855-02-19 23:59 G 38557642.41 38557642.50 38557642.58 0.2646 0.1623

Moon 100855-02-20 00:14 G 38557642.43 38557642.51 38557642.60 0.2652 0.1558 *

Venus 100860-04-19 01:11 G 38559527.49 38559527.55 38559527.61 0.3732 0.3412

Jupiter 100860-04-21 23:45 G 38559530.30 38559530.49 38559530.67 0.0514 0.0059

Saturn 100861-07-08 02:23 G 38559972.47 38559972.60 38559972.73 0.0271 0.0195

Saturn 100861-10-05 01:26 G 38560061.36 38560061.56 38560061.75 0.0272 0.0005

Saturn 100862-01-02 00:28 G 38560150.39 38560150.52 38560150.65 0.0273 0.0197

Mars 100862-08-10 18:14 G 38560371.14 38560371.26 38560371.37 0.1611 0.0203

Jupiter 100865-12-20 07:11 G 38561598.68 38561598.80 38561598.93 0.0512 0.0095

Earth 100868-02-22 17:02 G 38562393.10 38562393.21 38562393.31 0.2645 0.0170

Moon 100868-02-22 17:30 G 38562393.12 38562393.23 38562393.34 0.2646 0.0084 *

Pluto 100868-11-15 22:18 G 38562660.41 38562660.43 38562660.47 0.0084 0.0082

Pluto 100869-02-11 23:45 G 38562748.41 38562748.49 38562748.58 0.0084 0.0062

Pluto 100869-05-11 00:57 G 38562836.43 38562836.54 38562836.66 0.0084 0.0043

Pluto 100869-08-07 02:23 G 38562924.47 38562924.60 38562924.73 0.0084 0.0024

Pluto 100869-11-03 03:35 G 38563012.51 38563012.65 38563012.78 0.0083 0.0005

Pluto 100870-01-30 04:47 G 38563100.57 38563100.70 38563100.83 0.0083 0.0015

Pluto 100870-04-28 05:59 G 38563188.63 38563188.75 38563188.87 0.0083 0.0033

Pluto 100870-07-25 07:11 G 38563276.70 38563276.80 38563276.91 0.0083 0.0052

Pluto 100870-10-21 08:23 G 38563364.78 38563364.85 38563364.92 0.0083 0.0071

Mars 100872-01-01 05:45 G 38563801.64 38563801.74 38563801.85 0.1616 0.0650

Jupiter 100872-02-08 19:54 G 38563840.18 38563840.33 38563840.49 0.0514 0.0297

Uranus 100873-11-30 18:57 G 38564501.25 38564501.29 38564501.36 0.0142 0.0129

Mars 100873-12-06 07:11 G 38564506.72 38564506.80 38564506.88 0.1601 0.1175

Uranus 100874-02-26 22:33 G 38564589.36 38564589.44 38564589.53 0.0142 0.0107

Uranus 100874-05-26 01:54 G 38564677.48 38564677.58 38564677.69 0.0142 0.0087

Uranus 100874-08-22 05:16 G 38564765.61 38564765.72 38564765.84 0.0142 0.0066

Uranus 100874-11-18 08:52 G 38564853.75 38564853.87 38564853.99 0.0142 0.0045

Saturn 100874-11-19 07:11 G 38564854.69 38564854.80 38564854.92 0.0291 0.0136

Uranus 100875-02-14 12:14 G 38564941.88 38564942.01 38564942.14 0.0142 0.0024

Saturn 100875-02-15 18:42 G 38564943.16 38564943.28 38564943.41 0.0290 0.0024

Uranus 100875-05-13 15:35 G 38565030.02 38565030.15 38565030.28 0.0142 0.0005

Saturn 100875-05-15 06:14 G 38565031.66 38565031.76 38565031.86 0.0289 0.0178

Uranus 100875-08-09 18:57 G 38565118.17 38565118.29 38565118.43 0.0142 0.0019

Uranus 100875-11-05 22:33 G 38565206.31 38565206.44 38565206.57 0.0142 0.0039

Uranus 100876-02-02 01:54 G 38565294.46 38565294.58 38565294.70 0.0142 0.0061

Uranus 100876-04-30 05:16 G 38565382.62 38565382.72 38565382.83 0.0142 0.0082

Uranus 100876-07-27 08:52 G 38565470.78 38565470.87 38565470.96 0.0142 0.0103

Uranus 100876-10-23 11:59 G 38565558.95 38565559.00 38565559.07 0.0142 0.0125

Jupiter 100877-10-08 11:59 G 38565908.89 38565909.00 38565909.11 0.0512 0.0251

Jupiter 100878-01-05 15:35 G 38565998.07 38565998.15 38565998.23 0.0510 0.0376

Mars 100880-07-24 16:47 G 38566929.04 38566929.20 38566929.36 0.1935 0.0600

Venus 100880-11-23 21:50 G 38567051.34 38567051.41 38567051.48 0.3644 0.2695

Earth 100881-02-24 09:50 G 38567143.82 38567143.91 38567144.01 0.2643 0.1351

Moon 100881-02-24 10:33 G 38567143.85 38567143.94 38567144.03 0.2640 0.1503 *

Mars 100881-05-23 17:30 G 38567232.14 38567232.23 38567232.31 0.1620 0.1096

Mars 100883-04-28 18:42 G 38567937.18 38567937.28 38567937.39 0.1604 0.0739

Jupiter 100884-02-26 06:57 G 38568240.71 38568240.79 38568240.88 0.0515 0.0451

Venus 100886-06-09 12:57 G 38569074.94 38569075.04 38569075.13 0.3642 0.0896

Jupiter 100889-07-27 16:47 G 38570219.13 38570219.20 38570219.28 0.0513 0.0408

Jupiter 100889-10-24 20:23 G 38570308.24 38570308.35 38570308.47 0.0511 0.0225

Mars 100889-12-14 08:52 G 38570358.72 38570358.87 38570359.01 0.1929 0.0994

Mars 100890-10-14 05:02 G 38570662.68 38570662.71 38570662.74 0.1624 0.1552

Saturn 100890-11-24 23:45 G 38570704.45 38570704.49 38570704.54 0.0271 0.0261

Saturn 100891-02-21 22:33 G 38570793.26 38570793.44 38570793.63 0.0272 0.0068

Saturn 100891-05-21 21:50 G 38570882.24 38570882.41 38570882.58 0.0273 0.0129

Venus 100891-12-24 03:50 G 38571098.56 38571098.66 38571098.76 0.3639 0.0915

Mars 100892-09-18 06:28 G 38571367.66 38571367.77 38571367.89 0.1607 0.0298

Jupiter 100895-12-15 02:52 G 38572550.45 38572550.62 38572550.79 0.0514 0.0205

Venus 100897-07-08 18:42 G 38573122.22 38573122.28 38573122.35 0.3637 0.2692

Earth 100897-08-27 01:26 G 38573171.40 38573171.56 38573171.72 0.2688 0.0420

Moon 100897-08-27 03:06 G 38573171.48 38573171.63 38573171.79 0.2690 0.0801 *

Earth 100901-02-21 04:33 G 38574444.60 38574444.69 38574444.79 0.2646 0.1322

Moon 100901-02-21 05:02 G 38574444.62 38574444.71 38574444.80 0.2651 0.1245 *

Jupiter 100901-08-14 01:26 G 38574618.44 38574618.56 38574618.69 0.0511 0.0075

Mars 100902-02-09 18:14 G 38574798.14 38574798.26 38574798.37 0.1611 0.0162

Saturn 100904-04-08 09:06 G 38575586.79 38575586.88 38575586.98 0.0292 0.0187

Saturn 100904-07-05 20:52 G 38575675.24 38575675.37 38575675.49 0.0291 0.0029

Saturn 100904-10-02 08:09 G 38575763.73 38575763.84 38575763.96 0.0289 0.0130

Saturn 100904-12-29 19:40 G 38575852.30 38575852.32 38575852.34 0.0288 0.0283

Jupiter 100907-10-03 22:04 G 38576860.23 38576860.42 38576860.60 0.0514 0.0052

Mars 100911-07-03 05:45 G 38578228.64 38578228.74 38578228.85 0.1615 0.0598

Neptune 100912-10-25 08:23 G 38578708.78 38578708.85 38578708.92 0.0090 0.0083

Neptune 100913-01-21 11:45 G 38578796.90 38578796.99 38578797.13 0.0090 0.0073

Neptune 100913-04-19 15:35 G 38578885.03 38578885.15 38578885.31 0.0090 0.0062

Jupiter 100913-06-02 06:42 G 38578928.65 38578928.78 38578928.90 0.0512 0.0077

Mars 100913-06-07 07:11 G 38578933.72 38578933.80 38578933.87 0.1600 0.1228

Neptune 100913-07-16 19:40 G 38578973.17 38578973.32 38578973.49 0.0090 0.0051

Neptune 100913-10-12 23:30 G 38579061.31 38579061.48 38579061.67 0.0090 0.0040

Neptune 100914-01-09 03:21 G 38579149.46 38579149.64 38579149.83 0.0090 0.0029

Earth 100914-02-23 21:35 G 38579195.29 38579195.40 38579195.51 0.2644 0.0165

Moon 100914-02-23 22:18 G 38579195.32 38579195.43 38579195.54 0.2644 0.0285 *

Neptune 100914-04-07 07:11 G 38579237.61 38579237.80 38579238.00 0.0090 0.0018

Neptune 100914-07-04 11:16 G 38579325.77 38579325.97 38579326.16 0.0090 0.0007

Neptune 100914-09-30 14:52 G 38579413.93 38579414.12 38579414.32 0.0090 0.0005

Uranus 100914-12-24 11:02 G 38579498.88 38579498.96 38579499.06 0.0136 0.0122

Neptune 100914-12-27 18:42 G 38579502.09 38579502.28 38579502.48 0.0090 0.0015

Uranus 100915-03-22 18:57 G 38579587.15 38579587.29 38579587.43 0.0136 0.0094

Neptune 100915-03-25 22:33 G 38579590.26 38579590.44 38579590.63 0.0090 0.0026

Uranus 100915-06-19 02:23 G 38579675.44 38579675.60 38579675.78 0.0136 0.0066

Neptune 100915-06-22 02:23 G 38579678.42 38579678.60 38579678.78 0.0090 0.0037

Uranus 100915-09-15 10:18 G 38579763.74 38579763.93 38579764.12 0.0136 0.0038

Neptune 100915-09-18 05:59 G 38579766.60 38579766.75 38579766.93 0.0090 0.0048

Uranus 100915-12-12 17:59 G 38579852.06 38579852.25 38579852.45 0.0136 0.0010

Neptune 100915-12-15 09:50 G 38579854.77 38579854.91 38579855.07 0.0090 0.0059

Uranus 100916-03-10 01:40 G 38579940.38 38579940.57 38579940.77 0.0136 0.0017

Neptune 100916-03-12 13:40 G 38579942.96 38579943.07 38579943.20 0.0090 0.0070

Uranus 100916-06-06 09:21 G 38580028.71 38580028.89 38580029.08 0.0136 0.0045

Neptune 100916-06-08 17:16 G 38580031.16 38580031.22 38580031.33 0.0090 0.0081

Uranus 100916-09-02 16:47 G 38580117.05 38580117.20 38580117.38 0.0136 0.0073

Venus 100916-11-25 04:18 G 38580200.53 38580200.68 38580200.84 0.3733 0.0966

Uranus 100916-11-30 00:42 G 38580205.40 38580205.53 38580205.66 0.0136 0.0100

Uranus 100917-02-26 08:09 G 38580293.79 38580293.84 38580293.92 0.0136 0.0128

Jupiter 100919-07-22 18:28 G 38581170.12 38581170.27 38581170.43 0.0514 0.0287

Mars 100920-01-24 17:59 G 38581356.10 38581356.25 38581356.41 0.1935 0.0755

Saturn 100920-07-11 19:40 G 38581525.15 38581525.32 38581525.49 0.0271 0.0135

Saturn 100920-10-08 18:42 G 38581614.09 38581614.28 38581614.47 0.0272 0.0060

Mars 100920-11-22 17:16 G 38581659.14 38581659.22 38581659.31 0.1620 0.1050

Saturn 100921-01-05 17:30 G 38581703.18 38581703.23 38581703.30 0.0273 0.0257

Mars 100922-10-28 18:42 G 38582364.18 38582364.28 38582364.39 0.1604 0.0791

Jupiter 100925-03-21 11:16 G 38583238.86 38583238.97 38583239.08 0.0512 0.0235

Jupiter 100925-06-18 14:52 G 38583328.04 38583328.12 38583328.20 0.0510 0.0391

Earth 100927-02-26 14:38 G 38583946.03 38583946.11 38583946.20 0.2643 0.1651

Moon 100927-02-26 15:06 G 38583946.05 38583946.13 38583946.22 0.2639 0.1688 *

Mars 100929-06-15 09:21 G 38584785.74 38584785.89 38584786.04 0.1928 0.0888

Mars 100930-04-15 05:02 G 38585089.67 38585089.71 38585089.75 0.1624 0.1502

Earth 100930-08-25 22:47 G 38585222.45 38585222.45 38585222.46 0.2687 0.2685

Moon 100930-08-26 00:28 G 38585222.45 38585222.52 38585222.58 0.2691 0.2442 *

Jupiter 100931-08-09 06:14 G 38585570.70 38585570.76 38585570.84 0.0515 0.0476

Mars 100932-03-20 06:28 G 38585794.65 38585794.77 38585794.88 0.1608 0.0349

Saturn 100933-08-26 10:04 G 38586318.86 38586318.92 38586318.98 0.0292 0.0254

Saturn 100933-11-22 21:35 G 38586407.28 38586407.40 38586407.53 0.0291 0.0093

Saturn 100934-02-19 09:06 G 38586495.76 38586495.88 38586496.01 0.0290 0.0065

Earth 100934-02-19 16:18 G 38586496.15 38586496.18 38586496.21 0.2647 0.2501

Moon 100934-02-19 16:33 G 38586496.15 38586496.19 38586496.23 0.2653 0.2435 *

Saturn 100934-05-18 20:38 G 38586584.28 38586584.36 38586584.44 0.0289 0.0221

Jupiter 100937-01-07 16:04 G 38587549.09 38587549.17 38587549.25 0.0513 0.0392

Jupiter 100937-04-06 19:40 G 38587638.21 38587638.32 38587638.43 0.0511 0.0238

Venus 100937-07-01 19:11 G 38587724.21 38587724.30 38587724.38 0.3644 0.2061

Mars 100941-08-10 18:14 G 38589225.14 38589225.26 38589225.37 0.1611 0.0106

Venus 100943-01-15 10:04 G 38589747.82 38589747.92 38589748.02 0.3641 0.0274

Jupiter 100943-05-28 02:09 G 38589880.42 38589880.59 38589880.76 0.0515 0.0227

Earth 100943-08-29 08:23 G 38589973.71 38589973.85 38589974.00 0.2688 0.1155

Moon 100943-08-29 10:18 G 38589973.79 38589973.93 38589974.07 0.2688 0.1340 *

Earth 100947-02-22 09:21 G 38591246.79 38591246.89 38591246.99 0.2645 0.1020

Moon 100947-02-22 09:50 G 38591246.81 38591246.91 38591247.01 0.2650 0.0970 *

Venus 100948-07-31 01:11 G 38591771.46 38591771.55 38591771.64 0.3639 0.1541

Jupiter 100949-01-24 00:28 G 38591948.40 38591948.52 38591948.65 0.0512 0.0087

Saturn 100949-11-28 16:47 G 38592257.08 38592257.20 38592257.33 0.0271 0.0204

Saturn 100950-02-25 15:50 G 38592345.96 38592346.16 38592346.35 0.0272 0.0010

Saturn 100950-05-25 14:38 G 38592434.98 38592435.11 38592435.26 0.0273 0.0187

Mars 100951-01-01 05:45 G 38592655.63 38592655.74 38592655.85 0.1615 0.0543

Mars 100952-12-06 07:11 G 38593360.73 38593360.80 38593360.87 0.1600 0.1284

Venus 100954-02-13 16:04 G 38593795.13 38593795.17 38593795.21 0.3636 0.3310

Jupiter 100955-03-15 22:04 G 38594190.23 38594190.42 38594190.61 0.0514 0.0018

Uranus 100957-12-22 02:38 G 38595202.55 38595202.61 38595202.68 0.0142 0.0122

Uranus 100958-03-20 06:14 G 38595290.67 38595290.76 38595290.85 0.0142 0.0101

Uranus 100958-06-16 09:21 G 38595378.79 38595378.89 38595379.01 0.0142 0.0081

Uranus 100958-09-12 12:57 G 38595466.92 38595467.04 38595467.16 0.0142 0.0059

Uranus 100958-12-09 16:18 G 38595555.06 38595555.18 38595555.31 0.0142 0.0039

Uranus 100959-03-07 19:40 G 38595643.20 38595643.32 38595643.46 0.0142 0.0018

Uranus 100959-06-03 23:16 G 38595731.34 38595731.47 38595731.60 0.0142 0.0004

Mars 100959-07-25 18:57 G 38595783.14 38595783.29 38595783.44 0.1935 0.0882

Uranus 100959-08-31 02:38 G 38595819.48 38595819.61 38595819.74 0.0142 0.0025

Uranus 100959-11-27 05:59 G 38595907.63 38595907.75 38595907.88 0.0142 0.0046

Uranus 100960-02-23 09:21 G 38595995.78 38595995.89 38595996.01 0.0142 0.0067

Earth 100960-02-25 02:23 G 38595997.49 38595997.60 38595997.70 0.2644 0.0470

Moon 100960-02-25 03:06 G 38595997.52 38595997.63 38595997.73 0.2643 0.0595 *

Uranus 100960-05-21 12:42 G 38596083.94 38596084.03 38596084.14 0.0142 0.0089

Mars 100960-05-23 17:16 G 38596086.13 38596086.22 38596086.31 0.1620 0.0998

Uranus 100960-08-17 16:18 G 38596172.10 38596172.18 38596172.27 0.0142 0.0109

Jupiter 100960-11-12 05:45 G 38596258.61 38596258.74 38596258.86 0.0512 0.0066

Uranus 100960-11-13 19:40 G 38596260.28 38596260.32 38596260.38 0.0142 0.0131

Mars 100962-04-28 18:42 G 38596791.18 38596791.28 38596791.38 0.1604 0.0843

Saturn 100963-04-11 23:16 G 38597139.36 38597139.47 38597139.58 0.0292 0.0147

Saturn 100963-07-09 10:47 G 38597227.83 38597227.95 38597228.08 0.0291 0.0015

Saturn 100963-10-05 22:18 G 38597316.33 38597316.43 38597316.54 0.0289 0.0169

Jupiter 100967-01-01 17:02 G 38598500.06 38598500.21 38598500.37 0.0514 0.0277

Mars 100968-12-14 10:33 G 38599212.78 38599212.94 38599213.09 0.1929 0.0747

Mars 100969-10-14 05:02 G 38599516.66 38599516.71 38599516.76 0.1624 0.1451

Mars 100971-09-19 06:28 G 38600221.65 38600221.77 38600221.88 0.1607 0.0402

Jupiter 100972-08-31 10:47 G 38600568.84 38600568.95 38600569.07 0.0512 0.0213

Jupiter 100972-11-28 14:23 G 38600658.03 38600658.10 38600658.17 0.0510 0.0412

Earth 100973-02-26 19:26 G 38600748.24 38600748.31 38600748.38 0.2643 0.1953

Moon 100973-02-26 19:40 G 38600748.26 38600748.32 38600748.39 0.2638 0.2036 *

Venus 100973-07-02 07:40 G 38600873.67 38600873.82 38600873.97 0.3734 0.1497

Earth 100976-08-26 05:45 G 38602024.63 38602024.74 38602024.85 0.2687 0.1973

Moon 100976-08-26 07:26 G 38602024.68 38602024.81 38602024.93 0.2691 0.1731 *

Jupiter 100978-10-20 13:40 G 38602810.05 38602810.07 38602810.10 0.0514 0.0509

Jupiter 100979-01-19 05:02 G 38602900.66 38602900.71 38602900.77 0.0516 0.0488

Saturn 100979-07-15 12:28 G 38603077.84 38603078.02 38603078.21 0.0271 0.0079

Saturn 100979-10-12 11:30 G 38603166.81 38603166.98 38603167.16 0.0272 0.0116

Earth 100980-02-20 21:06 G 38603298.32 38603298.38 38603298.44 0.2647 0.2197

Moon 100980-02-20 21:21 G 38603298.33 38603298.39 38603298.44 0.2653 0.2231 *

Mars 100981-02-08 17:59 G 38603652.14 38603652.25 38603652.37 0.1611 0.0064

Jupiter 100984-06-19 15:21 G 38604879.06 38604879.14 38604879.23 0.0513 0.0373

Jupiter 100984-09-16 19:11 G 38604968.19 38604968.30 38604968.41 0.0510 0.0257

Venus 100988-07-23 01:26 G 38606373.51 38606373.56 38606373.60 0.3645 0.3237

Earth 100989-08-29 15:21 G 38606776.03 38606776.14 38606776.26 0.2689 0.1871

Moon 100989-08-29 17:16 G 38606776.13 38606776.22 38606776.31 0.2687 0.2187 *

Mars 100990-07-02 05:45 G 38607082.63 38607082.74 38607082.85 0.1615 0.0493

Jupiter 100990-11-07 01:40 G 38607210.41 38607210.57 38607210.73 0.0515 0.0251

Mars 100992-06-06 06:57 G 38607787.73 38607787.79 38607787.86 0.1600 0.1337

Saturn 100992-08-28 23:59 G 38607871.42 38607871.50 38607871.59 0.0293 0.0215

Saturn 100992-11-25 11:45 G 38607959.86 38607959.99 38607960.11 0.0291 0.0056

Saturn 100993-02-21 23:02 G 38608048.34 38608048.46 38608048.58 0.0290 0.0104

Earth 100993-02-22 13:54 G 38608048.98 38608049.08 38608049.19 0.2645 0.0725

Moon 100993-02-22 14:38 G 38608049.00 38608049.11 38608049.21 0.2648 0.0570 *

Neptune 100993-05-19 05:45 G 38608134.73 38608134.74 38608134.79 0.0088 0.0086

Saturn 100993-05-21 10:33 G 38608136.89 38608136.94 38608137.00 0.0289 0.0259

Neptune 100993-08-15 07:11 G 38608222.75 38608222.80 38608222.87 0.0088 0.0079

Neptune 100993-11-11 08:23 G 38608310.79 38608310.85 38608310.94 0.0088 0.0072

Venus 100994-02-05 16:33 G 38608397.09 38608397.19 38608397.28 0.3643 0.1430

Neptune 100994-02-07 09:50 G 38608398.83 38608398.91 38608399.00 0.0088 0.0065

Neptune 100994-05-06 11:02 G 38608486.87 38608486.96 38608487.06 0.0088 0.0058

Neptune 100994-08-02 12:28 G 38608574.91 38608575.02 38608575.12 0.0088 0.0051

Neptune 100994-10-29 13:26 G 38608662.96 38608663.06 38608663.18 0.0088 0.0045

Neptune 100995-01-25 14:38 G 38608751.00 38608751.11 38608751.24 0.0088 0.0038

Neptune 100995-04-23 16:04 G 38608839.05 38608839.17 38608839.30 0.0088 0.0031

Neptune 100995-07-20 17:16 G 38608927.10 38608927.22 38608927.35 0.0088 0.0024

Neptune 100995-10-16 18:42 G 38609015.15 38609015.28 38609015.41 0.0088 0.0017

Neptune 100996-01-12 19:54 G 38609103.20 38609103.33 38609103.46 0.0088 0.0010

Neptune 100996-04-09 21:06 G 38609191.25 38609191.38 38609191.51 0.0088 0.0003

Jupiter 100996-07-05 23:59 G 38609278.37 38609278.50 38609278.62 0.0511 0.0103

Neptune 100996-07-06 22:18 G 38609279.30 38609279.43 38609279.56 0.0088 0.0004

Neptune 100996-10-02 23:30 G 38609367.35 38609367.48 38609367.62 0.0088 0.0011

Neptune 100996-12-30 00:42 G 38609455.41 38609455.53 38609455.67 0.0088 0.0018

Neptune 100997-03-28 01:54 G 38609543.46 38609543.58 38609543.72 0.0088 0.0025

Neptune 100997-06-24 03:06 G 38609631.52 38609631.63 38609631.76 0.0088 0.0032

Neptune 100997-09-20 04:33 G 38609719.57 38609719.69 38609719.81 0.0088 0.0038

Neptune 100997-12-17 05:45 G 38609807.63 38609807.74 38609807.86 0.0088 0.0045

Neptune 100998-03-15 06:57 G 38609895.69 38609895.79 38609895.90 0.0088 0.0052

Neptune 100998-06-11 08:09 G 38609983.75 38609983.84 38609983.94 0.0088 0.0059

Neptune 100998-09-07 09:21 G 38610071.81 38610071.89 38610071.99 0.0088 0.0066

Neptune 100998-12-04 10:47 G 38610159.88 38610159.95 38610160.02 0.0088 0.0072

Uranus 100999-01-13 19:40 G 38610200.22 38610200.32 38610200.45 0.0136 0.0109

Mars 100999-01-23 19:40 G 38610210.18 38610210.32 38610210.46 0.1936 0.0999

Neptune 100999-03-02 11:59 G 38610247.95 38610248.00 38610248.06 0.0088 0.0079

Uranus 100999-04-12 03:21 G 38610288.50 38610288.64 38610288.81 0.0136 0.0082

Neptune 100999-05-29 13:11 G 38610336.03 38610336.05 38610336.08 0.0088 0.0086

Uranus 100999-07-09 11:16 G 38610376.80 38610376.97 38610377.16 0.0136 0.0054

Venus 100999-08-22 07:26 G 38610420.71 38610420.81 38610420.91 0.3640 0.0388

Uranus 100999-10-05 18:57 G 38610465.10 38610465.29 38610465.49 0.0136 0.0026

Mars 100999-11-22 17:16 G 38610513.13 38610513.22 38610513.32 0.1619 0.0943

Uranus 101000-01-02 02:52 G 38610553.42 38610553.62 38610553.81 0.0136 0.0003

Uranus 101000-03-31 10:18 G 38610641.75 38610641.93 38610642.13 0.0136 0.0030

Uranus 101000-06-27 17:59 G 38610730.08 38610730.25 38610730.44 0.0136 0.0058

Uranus 101000-09-24 01:40 G 38610818.43 38610818.57 38610818.73 0.0136 0.0085

Uranus 101000-12-21 09:06 G 38610906.79 38610906.88 38610907.01 0.0136 0.0113

102ND MILLENNIUM CE

This is a list of transits of Mercury in the 102nd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Mars 101001-10-28 18:42 G 38611218.18 38611218.28 38611218.38 0.1604 0.0897

Jupiter 101002-08-26 21:35 G 38611520.21 38611520.40 38611520.59 0.0514 0.0007

Venus 101005-03-07 22:33 G 38612444.36 38612444.44 38612444.52 0.3638 0.2168

Earth 101006-02-26 06:57 G 38612799.69 38612799.79 38612799.90 0.2644 0.0774

Moon 101006-02-26 07:40 G 38612799.72 38612799.82 38612799.92 0.2642 0.0859 *

Jupiter 101008-04-25 04:47 G 38613588.58 38613588.70 38613588.83 0.0512 0.0052

Mars 101008-06-15 11:30 G 38613639.82 38613639.98 38613640.14 0.1929 0.0607

Saturn 101008-12-02 09:35 G 38613809.74 38613809.90 38613810.06 0.0271 0.0149

Saturn 101009-03-01 08:38 G 38613898.67 38613898.86 38613899.05 0.0272 0.0046

Mars 101009-04-15 05:02 G 38613943.65 38613943.71 38613943.76 0.1624 0.1401

Saturn 101009-05-29 07:26 G 38613987.73 38613987.81 38613987.90 0.0273 0.0243

Mars 101011-03-21 06:28 G 38614648.66 38614648.77 38614648.88 0.1607 0.0457

Jupiter 101014-06-14 17:30 G 38615830.06 38615830.23 38615830.39 0.0514 0.0238

Earth 101019-03-01 00:14 G 38617550.45 38617550.51 38617550.56 0.2643 0.2259

Moon 101019-03-01 00:28 G 38617550.46 38617550.52 38617550.57 0.2637 0.2289 *

Jupiter 101020-02-12 09:50 G 38617898.80 38617898.91 38617899.03 0.0512 0.0202

Jupiter 101020-05-11 13:26 G 38617987.99 38617988.06 38617988.13 0.0510 0.0425

Mars 101020-08-10 17:59 G 38618079.13 38618079.25 38618079.37 0.1611 0.0020

Saturn 101022-01-17 01:26 G 38618603.52 38618603.56 38618603.61 0.0293 0.0272

Pluto 101022-03-13 03:06 G 38618658.58 38618658.63 38618658.71 0.0060 0.0056

Saturn 101022-04-15 13:11 G 38618691.93 38618692.05 38618692.17 0.0292 0.0110

Pluto 101022-06-09 04:18 G 38618746.57 38618746.68 38618746.81 0.0060 0.0047

Saturn 101022-07-13 00:42 G 38618780.40 38618780.53 38618780.66 0.0291 0.0049

Earth 101022-08-28 12:42 G 38618826.89 38618827.03 38618827.18 0.2687 0.1249

Moon 101022-08-28 14:23 G 38618826.96 38618827.10 38618827.25 0.2690 0.1051 *

Pluto 101022-09-05 05:45 G 38618834.60 38618834.74 38618834.90 0.0060 0.0036

Saturn 101022-10-09 12:14 G 38618868.92 38618869.01 38618869.10 0.0289 0.0206

Pluto 101022-12-02 06:57 G 38618922.63 38618922.79 38618922.97 0.0060 0.0027

Pluto 101023-02-28 08:09 G 38619010.67 38619010.84 38619011.04 0.0060 0.0017

Pluto 101023-05-27 09:35 G 38619098.71 38619098.90 38619099.09 0.0060 0.0006

Pluto 101023-08-23 10:47 G 38619186.77 38619186.95 38619187.15 0.0060 0.0004

Pluto 101023-11-19 12:14 G 38619274.82 38619275.01 38619275.20 0.0060 0.0014

Pluto 101024-02-15 13:11 G 38619362.89 38619363.05 38619363.24 0.0061 0.0024

Pluto 101024-05-13 14:23 G 38619450.96 38619451.10 38619451.27 0.0061 0.0035

Pluto 101024-08-09 15:35 G 38619539.04 38619539.15 38619539.30 0.0061 0.0045

Pluto 101024-11-05 17:02 G 38619627.14 38619627.21 38619627.30 0.0061 0.0055

Earth 101026-02-22 01:40 G 38620100.50 38620100.57 38620100.65 0.2646 0.1896

Moon 101026-02-22 01:54 G 38620100.51 38620100.58 38620100.66 0.2653 0.1798 *

Jupiter 101026-04-02 12:14 G 38620139.97 38620140.01 38620140.06 0.0514 0.0498

Jupiter 101026-07-02 03:35 G 38620230.61 38620230.65 38620230.70 0.0516 0.0498

Mars 101030-01-01 05:45 G 38621509.62 38621509.74 38621509.85 0.1615 0.0444

Jupiter 101031-12-01 15:06 G 38622209.04 38622209.13 38622209.22 0.0513 0.0349

Mars 101031-12-07 06:57 G 38622214.74 38622214.79 38622214.85 0.1600 0.1390

Jupiter 101032-02-28 18:42 G 38622298.17 38622298.28 38622298.38 0.0510 0.0279

Earth 101035-08-31 22:33 G 38623578.40 38623578.44 38623578.48 0.2689 0.2590

Jupiter 101038-04-20 00:14 G 38624540.35 38624540.51 38624540.67 0.0515 0.0261

Saturn 101038-04-21 06:57 G 38624541.67 38624541.79 38624541.91 0.0270 0.0213

Saturn 101038-07-19 05:45 G 38624630.55 38624630.74 38624630.93 0.0271 0.0021

Mars 101038-07-25 20:52 G 38624637.23 38624637.37 38624637.50 0.1936 0.1146

Saturn 101038-10-16 04:33 G 38624719.55 38624719.69 38624719.84 0.0272 0.0174

Earth 101039-02-24 18:42 G 38624851.17 38624851.28 38624851.39 0.2645 0.0413

Moon 101039-02-24 19:26 G 38624851.20 38624851.31 38624851.42 0.2646 0.0364 *

Mars 101039-05-24 17:16 G 38624940.12 38624940.22 38624940.32 0.1619 0.0894

Mars 101041-04-28 18:42 G 38625645.19 38625645.28 38625645.37 0.1604 0.0949

Uranus 101041-10-16 06:57 G 38625815.76 38625815.79 38625815.82 0.0142 0.0136

Uranus 101042-01-12 10:04 G 38625903.86 38625903.92 38625904.00 0.0142 0.0116

Uranus 101042-04-10 13:40 G 38625991.98 38625992.07 38625992.17 0.0142 0.0094

Uranus 101042-07-07 17:02 G 38626080.10 38626080.21 38626080.33 0.0142 0.0074

Uranus 101042-10-03 20:23 G 38626168.24 38626168.35 38626168.48 0.0142 0.0053

Uranus 101042-12-30 23:59 G 38626256.37 38626256.50 38626256.63 0.0142 0.0032

Uranus 101043-03-29 03:21 G 38626344.51 38626344.64 38626344.77 0.0142 0.0011

Uranus 101043-06-25 06:57 G 38626432.65 38626432.79 38626432.92 0.0142 0.0011

Jupiter 101043-09-19 19:40 G 38626519.31 38626519.32 38626519.33 0.0513 0.0509

Uranus 101043-09-21 10:18 G 38626520.80 38626520.93 38626521.06 0.0142 0.0032

Jupiter 101043-12-17 23:30 G 38626608.35 38626608.48 38626608.60 0.0511 0.0123

Uranus 101043-12-18 13:40 G 38626608.95 38626609.07 38626609.19 0.0142 0.0053

Uranus 101044-03-15 17:02 G 38626697.10 38626697.21 38626697.33 0.0142 0.0074

Uranus 101044-06-11 20:23 G 38626785.26 38626785.35 38626785.45 0.0142 0.0095

Uranus 101044-09-07 23:45 G 38626873.43 38626873.49 38626873.57 0.0142 0.0117

Uranus 101044-12-05 03:21 G 38626961.61 38626961.64 38626961.68 0.0142 0.0137

Venus 101045-02-27 22:47 G 38627046.38 38627046.45 38627046.52 0.3645 0.2596

Mars 101047-12-15 12:14 G 38628066.85 38628067.01 38628067.18 0.1929 0.0492

Mars 101048-10-14 04:47 G 38628370.64 38628370.70 38628370.77 0.1624 0.1351

Jupiter 101050-02-05 20:52 G 38628850.18 38628850.37 38628850.55 0.0515 0.0028

Venus 101050-09-13 13:40 G 38629069.98 38629070.07 38629070.17 0.3642 0.0803

Mars 101050-09-19 06:14 G 38629075.65 38629075.76 38629075.87 0.1607 0.0508

Saturn 101051-09-02 13:54 G 38629423.98 38629424.08 38629424.18 0.0293 0.0179

Saturn 101051-11-30 01:26 G 38629512.43 38629512.56 38629512.69 0.0291 0.0019

Saturn 101052-02-26 12:57 G 38629600.93 38629601.04 38629601.15 0.0290 0.0140

Earth 101052-02-27 11:45 G 38629601.89 38629601.99 38629602.09 0.2644 0.1075

Moon 101052-02-27 12:28 G 38629601.92 38629602.02 38629602.11 0.2641 0.1209 *

Jupiter 101055-10-06 04:18 G 38630918.55 38630918.68 38630918.80 0.0511 0.0037

Venus 101056-03-29 04:47 G 38631093.60 38631093.70 38631093.80 0.3640 0.1007

Mars 101060-02-09 17:59 G 38632506.14 38632506.25 38632506.37 0.1611 0.0066

Venus 101061-10-12 19:40 G 38633117.26 38633117.32 38633117.39 0.3638 0.2779

Jupiter 101061-11-24 16:47 G 38633160.03 38633160.20 38633160.37 0.0514 0.0215

Earth 101065-03-01 04:47 G 38634352.68 38634352.70 38634352.73 0.2643 0.2566

Moon 101065-03-01 05:02 G 38634352.69 38634352.71 38634352.73 0.2636 0.2562 *

Jupiter 101067-07-25 08:52 G 38635228.76 38635228.87 38635228.99 0.0512 0.0190

Jupiter 101067-10-22 12:28 G 38635317.96 38635318.02 38635318.09 0.0510 0.0437

Saturn 101067-12-06 02:38 G 38635362.44 38635362.61 38635362.80 0.0271 0.0091

Saturn 101068-03-04 01:40 G 38635451.39 38635451.57 38635451.75 0.0272 0.0104

Earth 101068-08-28 19:40 G 38635629.16 38635629.32 38635629.48 0.2687 0.0531

Moon 101068-08-28 21:35 G 38635629.24 38635629.40 38635629.56 0.2688 0.0159 *

Mars 101069-07-02 05:45 G 38635936.62 38635936.74 38635936.85 0.1615 0.0388

Mars 101071-06-07 06:57 G 38636641.75 38636641.79 38636641.84 0.1600 0.1448

Earth 101072-02-23 06:28 G 38636902.68 38636902.77 38636902.85 0.2646 0.1592

Moon 101072-02-23 06:57 G 38636902.70 38636902.79 38636902.87 0.2651 0.1585 *

Jupiter 101073-09-12 12:42 G 38637469.95 38637470.03 38637470.11 0.0513 0.0458

Neptune 101077-07-23 05:02 G 38638879.65 38638879.71 38638879.80 0.0090 0.0082

Neptune 101077-10-19 09:06 G 38638967.77 38638967.88 38638968.00 0.0090 0.0071

Neptune 101078-01-15 12:57 G 38639055.90 38639056.04 38639056.19 0.0090 0.0060

Mars 101078-01-23 21:50 G 38639064.29 38639064.41 38639064.54 0.1936 0.1283

Neptune 101078-04-13 16:33 G 38639144.04 38639144.19 38639144.37 0.0090 0.0050

Neptune 101078-07-10 20:23 G 38639232.18 38639232.35 38639232.54 0.0090 0.0039

Neptune 101078-10-07 00:14 G 38639320.33 38639320.51 38639320.71 0.0090 0.0028

Mars 101078-11-22 17:16 G 38639367.12 38639367.22 38639367.32 0.1619 0.0843

Neptune 101079-01-03 04:18 G 38639408.49 38639408.68 38639408.87 0.0090 0.0017

Neptune 101079-04-01 08:09 G 38639496.64 38639496.84 38639497.04 0.0090 0.0006

Jupiter 101079-05-13 14:09 G 38639539.00 38639539.09 38639539.18 0.0513 0.0338

Neptune 101079-06-28 11:59 G 38639584.80 38639585.00 38639585.20 0.0090 0.0005

Jupiter 101079-08-10 17:45 G 38639628.14 38639628.24 38639628.34 0.0510 0.0290

Neptune 101079-09-24 15:35 G 38639672.96 38639673.15 38639673.35 0.0090 0.0017

Neptune 101079-12-21 19:40 G 38639761.13 38639761.32 38639761.50 0.0090 0.0027

Neptune 101080-03-18 23:16 G 38639849.30 38639849.47 38639849.65 0.0090 0.0038

Neptune 101080-06-15 03:06 G 38639937.47 38639937.63 38639937.80 0.0090 0.0049

Neptune 101080-09-11 06:42 G 38640025.65 38640025.78 38640025.94 0.0090 0.0060

Mars 101080-10-27 18:42 G 38640072.19 38640072.28 38640072.37 0.1603 0.1005

Neptune 101080-12-08 10:33 G 38640113.83 38640113.94 38640114.07 0.0090 0.0071

Saturn 101081-01-19 15:21 G 38640156.07 38640156.14 38640156.22 0.0293 0.0234

Venus 101081-02-28 00:42 G 38640195.38 38640195.53 38640195.68 0.3732 0.1477

Neptune 101081-03-06 14:09 G 38640202.03 38640202.09 38640202.19 0.0090 0.0082

Saturn 101081-04-18 03:06 G 38640244.51 38640244.63 38640244.76 0.0292 0.0073

Saturn 101081-07-15 14:38 G 38640332.99 38640333.11 38640333.24 0.0291 0.0087

Saturn 101081-10-12 02:09 G 38640421.52 38640421.59 38640421.66 0.0289 0.0243

Uranus 101082-11-07 20:52 G 38640813.30 38640813.37 38640813.45 0.0136 0.0125

Uranus 101083-02-04 04:47 G 38640901.56 38640901.70 38640901.83 0.0136 0.0097

Uranus 101083-05-03 12:14 G 38640989.85 38640990.01 38640990.19 0.0136 0.0069

Uranus 101083-07-30 19:54 G 38641078.15 38641078.33 38641078.53 0.0136 0.0042

Uranus 101083-10-27 03:50 G 38641166.46 38641166.66 38641166.85 0.0136 0.0013

Uranus 101084-01-23 11:30 G 38641254.78 38641254.98 38641255.17 0.0136 0.0014

Uranus 101084-04-20 19:11 G 38641343.11 38641343.30 38641343.49 0.0136 0.0042

Uranus 101084-07-18 02:38 G 38641431.45 38641431.61 38641431.79 0.0136 0.0070

Uranus 101084-10-14 10:33 G 38641519.81 38641519.94 38641520.08 0.0136 0.0097

Uranus 101085-01-10 17:59 G 38641608.19 38641608.25 38641608.34 0.0136 0.0125

Earth 101085-02-24 23:30 G 38641653.37 38641653.48 38641653.59 0.2645 0.0121

Moon 101085-02-25 00:14 G 38641653.40 38641653.51 38641653.61 0.2646 0.0120 *

Jupiter 101085-09-29 22:33 G 38641870.29 38641870.44 38641870.60 0.0515 0.0270

Mars 101087-06-15 13:11 G 38642493.88 38642494.05 38642494.22 0.1929 0.0360

Mars 101088-04-14 04:47 G 38642797.64 38642797.70 38642797.77 0.1624 0.1300

Mars 101090-03-20 06:14 G 38643502.65 38643502.76 38643502.87 0.1607 0.0559

Jupiter 101091-03-01 19:11 G 38643849.27 38643849.30 38643849.34 0.0513 0.0487

Jupiter 101091-05-29 23:02 G 38643938.34 38643938.46 38643938.58 0.0511 0.0144

Saturn 101097-04-24 00:28 G 38646094.36 38646094.52 38646094.68 0.0270 0.0151

Jupiter 101097-07-18 19:11 G 38646180.11 38646180.30 38646180.48 0.0515 0.0034

Saturn 101097-07-21 23:16 G 38646183.28 38646183.47 38646183.66 0.0271 0.0042

Saturn 101097-10-18 22:04 G 38646272.34 38646272.42 38646272.52 0.0272 0.0237

Earth 101098-02-27 16:33 G 38646404.10 38646404.19 38646404.28 0.2644 0.1382

Moon 101098-02-27 17:02 G 38646404.12 38646404.21 38646404.30 0.2639 0.1404 *

Mars 101099-08-10 17:59 G 38646933.13 38646933.25 38646933.37 0.1611 0.0115

Venus 101101-10-05 20:09 G 38647719.25 38647719.34 38647719.42 0.3644 0.1968

Jupiter 101103-03-19 03:35 G 38648248.53 38648248.65 38648248.78 0.0511 0.0016

Venus 101107-04-21 11:02 G 38649742.86 38649742.96 38649743.06 0.3642 0.0171

Mars 101109-01-01 05:30 G 38650363.62 38650363.73 38650363.85 0.1615 0.0340

Jupiter 101109-05-07 15:50 G 38650489.99 38650490.16 38650490.33 0.0514 0.0199

Saturn 101110-09-06 03:50 G 38650976.55 38650976.66 38650976.78 0.0292 0.0140

Saturn 101110-12-03 15:35 G 38651065.02 38651065.15 38651065.28 0.0291 0.0021

Mars 101110-12-07 06:57 G 38651068.75 38651068.79 38651068.83 0.1600 0.1499

Saturn 101111-03-02 03:06 G 38651153.53 38651153.63 38651153.73 0.0290 0.0179

Venus 101112-11-04 02:09 G 38651766.50 38651766.59 38651766.68 0.3639 0.1629

Earth 101114-08-31 02:52 G 38652431.46 38652431.62 38652431.78 0.2688 0.0217

Moon 101114-08-31 04:47 G 38652431.54 38652431.70 38652431.86 0.2687 0.0390 *

Jupiter 101115-01-05 08:23 G 38652558.73 38652558.85 38652558.97 0.0512 0.0171

Jupiter 101115-04-04 11:59 G 38652647.94 38652648.00 38652648.05 0.0510 0.0453

Pluto 101116-09-18 07:54 G 38653180.79 38653180.83 38653180.86 0.0084 0.0080

Pluto 101116-12-15 08:52 G 38653268.79 38653268.87 38653268.97 0.0084 0.0061

Pluto 101117-03-13 10:04 G 38653356.81 38653356.92 38653357.05 0.0084 0.0042

Pluto 101117-06-09 11:30 G 38653444.85 38653444.98 38653445.11 0.0084 0.0023

Mars 101117-07-25 22:18 G 38653491.32 38653491.43 38653491.55 0.1936 0.1392

Pluto 101117-09-05 12:42 G 38653532.90 38653533.03 38653533.17 0.0083 0.0004

Pluto 101117-12-02 13:54 G 38653620.95 38653621.08 38653621.22 0.0083 0.0016

Earth 101118-02-24 11:16 G 38653704.87 38653704.97 38653705.06 0.2646 0.1295

Moon 101118-02-24 11:45 G 38653704.89 38653704.99 38653705.08 0.2650 0.1177 *

Pluto 101118-02-28 15:06 G 38653709.01 38653709.13 38653709.26 0.0083 0.0035

Venus 101118-05-20 17:02 G 38653790.18 38653790.21 38653790.24 0.3637 0.3394

Mars 101118-05-24 17:16 G 38653794.12 38653794.22 38653794.32 0.1619 0.0788

Pluto 101118-05-27 16:18 G 38653797.08 38653797.18 38653797.29 0.0083 0.0053

Pluto 101118-08-23 17:30 G 38653885.17 38653885.23 38653885.30 0.0083 0.0072

Mars 101120-04-28 18:42 G 38654499.19 38654499.28 38654499.36 0.1604 0.1059

Jupiter 101121-02-23 11:45 G 38654799.90 38654799.99 38654800.09 0.0513 0.0439

Uranus 101125-11-06 13:54 G 38656517.04 38656517.08 38656517.13 0.0142 0.0132

Uranus 101126-02-02 17:16 G 38656605.15 38656605.22 38656605.31 0.0142 0.0111

Uranus 101126-05-01 20:52 G 38656693.27 38656693.37 38656693.47 0.0142 0.0090

Uranus 101126-07-29 00:14 G 38656781.40 38656781.51 38656781.63 0.0142 0.0069

Saturn 101126-09-11 21:50 G 38656826.31 38656826.41 38656826.53 0.0270 0.0217

Jupiter 101126-10-24 13:11 G 38656868.95 38656869.05 38656869.14 0.0513 0.0329

Uranus 101126-10-25 03:50 G 38656869.53 38656869.66 38656869.78 0.0142 0.0048

Saturn 101126-12-09 20:52 G 38656915.18 38656915.37 38656915.56 0.0271 0.0025

Mars 101126-12-15 14:23 G 38656920.94 38656921.10 38656921.27 0.1930 0.0211

Uranus 101127-01-21 07:11 G 38656957.67 38656957.80 38656957.93 0.0142 0.0027

Jupiter 101127-01-21 16:47 G 38656958.10 38656958.20 38656958.30 0.0511 0.0299

Saturn 101127-03-08 19:40 G 38657004.17 38657004.32 38657004.47 0.0272 0.0170

Uranus 101127-04-19 10:33 G 38657045.81 38657045.94 38657046.07 0.0142 0.0006

Uranus 101127-07-16 13:54 G 38657133.95 38657134.08 38657134.21 0.0142 0.0015

Uranus 101127-10-12 17:16 G 38657222.10 38657222.22 38657222.35 0.0142 0.0037

Mars 101127-10-15 04:47 G 38657224.63 38657224.70 38657224.77 0.1624 0.1247

Uranus 101128-01-08 20:52 G 38657310.25 38657310.37 38657310.49 0.0142 0.0057

Uranus 101128-04-06 00:14 G 38657398.40 38657398.51 38657398.62 0.0142 0.0078

Uranus 101128-07-03 03:35 G 38657486.56 38657486.65 38657486.75 0.0142 0.0099

Uranus 101128-09-29 06:57 G 38657574.73 38657574.79 38657574.87 0.0142 0.0121

Uranus 101128-12-26 10:33 G 38657662.93 38657662.94 38657662.95 0.0142 0.0142

Mars 101129-09-19 06:14 G 38657929.65 38657929.76 38657929.87 0.1607 0.0616

Earth 101131-02-27 04:18 G 38658455.57 38658455.68 38658455.78 0.2645 0.0227

Moon 101131-02-27 04:47 G 38658455.60 38658455.70 38658455.81 0.2645 0.0262 *

Jupiter 101133-03-12 23:02 G 38659200.31 38659200.46 38659200.61 0.0515 0.0306

Mars 101136-05-06 05:45 G 38660350.70 38660350.74 38660350.78 0.1922 0.1847

Venus 101137-10-06 04:04 G 38660868.51 38660868.67 38660868.82 0.3733 0.0986

Jupiter 101138-08-12 18:14 G 38661179.22 38661179.26 38661179.30 0.0513 0.0479

Jupiter 101138-11-09 21:50 G 38661268.29 38661268.41 38661268.54 0.0511 0.0154

Mars 101139-02-09 17:59 G 38661360.13 38661360.25 38661360.36 0.1611 0.0171

Saturn 101140-01-24 05:45 G 38661708.64 38661708.74 38661708.83 0.0293 0.0192

Saturn 101140-04-21 17:16 G 38661797.10 38661797.22 38661797.35 0.0291 0.0032

Saturn 101140-07-19 04:47 G 38661885.59 38661885.70 38661885.82 0.0290 0.0128

Saturn 101140-10-15 16:18 G 38661974.16 38661974.18 38661974.20 0.0289 0.0284

Earth 101144-02-29 21:21 G 38663206.30 38663206.39 38663206.47 0.2644 0.1688

Moon 101144-02-29 21:35 G 38663206.32 38663206.40 38663206.48 0.2638 0.1805 *

Jupiter 101144-12-29 17:16 G 38663510.04 38663510.22 38663510.41 0.0515 0.0038

Mars 101148-07-02 05:30 G 38664790.62 38664790.73 38664790.85 0.1615 0.0285

Mars 101150-06-07 06:57 G 38665495.76 38665495.79 38665495.81 0.1600 0.1552

Jupiter 101150-08-29 03:06 G 38665578.50 38665578.63 38665578.76 0.0511 0.0006

Moon 101151-02-22 23:02 G 38665756.42 38665756.46 38665756.49 0.2654 0.2466

Earth 101151-02-22 22:47 G 38665756.42 38665756.45 38665756.49 0.2647 0.2472 *

Venus 101152-10-27 02:23 G 38666368.55 38666368.60 38666368.64 0.3646 0.3149

Saturn 101156-04-27 19:11 G 38667647.11 38667647.30 38667647.48 0.0270 0.0082

Saturn 101156-07-25 17:45 G 38667736.07 38667736.24 38667736.42 0.0271 0.0112

Jupiter 101156-10-17 13:40 G 38667819.90 38667820.07 38667820.24 0.0514 0.0199

Mars 101157-01-23 23:45 G 38667918.39 38667918.49 38667918.59 0.1936 0.1548

Mars 101157-11-22 17:02 G 38668221.11 38668221.21 38668221.32 0.1619 0.0741

Neptune 101158-02-15 05:16 G 38668305.69 38668305.72 38668305.76 0.0088 0.0084

Venus 101158-05-12 17:16 G 38668392.13 38668392.22 38668392.32 0.3644 0.1336

Neptune 101158-05-14 06:42 G 38668393.72 38668393.78 38668393.84 0.0088 0.0077

Neptune 101158-08-10 07:40 G 38668481.75 38668481.82 38668481.91 0.0088 0.0071

Neptune 101158-11-06 08:52 G 38668569.79 38668569.87 38668569.97 0.0088 0.0064

Neptune 101159-02-02 10:18 G 38668657.84 38668657.93 38668658.04 0.0088 0.0057

Neptune 101159-05-01 11:30 G 38668745.88 38668745.98 38668746.09 0.0088 0.0050

Neptune 101159-07-28 12:57 G 38668833.92 38668834.04 38668834.15 0.0088 0.0043

Neptune 101159-10-24 14:09 G 38668921.97 38668922.09 38668922.21 0.0088 0.0036

Mars 101159-10-28 18:28 G 38668926.19 38668926.27 38668926.36 0.1603 0.1113

Neptune 101160-01-20 15:21 G 38669010.02 38669010.14 38669010.27 0.0088 0.0029

Neptune 101160-04-17 16:33 G 38669098.07 38669098.19 38669098.32 0.0088 0.0023

Neptune 101160-07-14 17:59 G 38669186.12 38669186.25 38669186.38 0.0088 0.0016

Earth 101160-08-31 09:50 G 38669233.76 38669233.91 38669234.06 0.2688 0.0933

Moon 101160-08-31 11:45 G 38669233.85 38669233.99 38669234.13 0.2687 0.1350 *

Neptune 101160-10-10 19:11 G 38669274.17 38669274.30 38669274.43 0.0088 0.0009

Neptune 101161-01-06 20:23 G 38669362.22 38669362.35 38669362.48 0.0088 0.0002

Neptune 101161-04-04 21:35 G 38669450.27 38669450.40 38669450.53 0.0088 0.0005

Neptune 101161-07-01 22:47 G 38669538.32 38669538.45 38669538.58 0.0088 0.0012

Neptune 101161-09-27 23:59 G 38669626.38 38669626.50 38669626.63 0.0088 0.0019

Neptune 101161-12-25 01:11 G 38669714.43 38669714.55 38669714.68 0.0088 0.0026

Neptune 101162-03-23 02:23 G 38669802.49 38669802.60 38669802.73 0.0088 0.0033

Jupiter 101162-06-17 07:40 G 38669888.70 38669888.82 38669888.94 0.0512 0.0154

Neptune 101162-06-19 03:50 G 38669890.54 38669890.66 38669890.78 0.0088 0.0039

Jupiter 101162-09-14 11:02 G 38669977.92 38669977.96 38669978.01 0.0510 0.0469

Neptune 101162-09-15 05:02 G 38669978.60 38669978.71 38669978.82 0.0088 0.0046

Neptune 101162-12-12 06:14 G 38670066.66 38670066.76 38670066.87 0.0088 0.0053

Neptune 101163-03-10 07:26 G 38670154.72 38670154.81 38670154.91 0.0088 0.0060

Neptune 101163-06-06 08:38 G 38670242.78 38670242.86 38670242.95 0.0088 0.0067

Neptune 101163-09-02 09:50 G 38670330.85 38670330.91 38670330.99 0.0088 0.0073

Venus 101163-11-26 08:23 G 38670415.75 38670415.85 38670415.95 0.3641 0.0462

Neptune 101163-11-29 11:16 G 38670418.92 38670418.97 38670419.02 0.0088 0.0080

Neptune 101164-02-25 12:28 G 38670507.01 38670507.02 38670507.04 0.0088 0.0087

Earth 101164-02-25 15:50 G 38670507.06 38670507.16 38670507.26 0.2646 0.0986

Moon 101164-02-25 16:33 G 38670507.09 38670507.19 38670507.29 0.2649 0.0899 *

Mars 101166-06-15 14:52 G 38671347.96 38671348.12 38671348.29 0.1929 0.0115

Uranus 101166-11-29 04:47 G 38671514.61 38671514.70 38671514.82 0.0136 0.0115

Uranus 101167-02-25 12:42 G 38671602.89 38671603.03 38671603.19 0.0136 0.0087

Mars 101167-04-15 04:47 G 38671651.62 38671651.70 38671651.78 0.1624 0.1195

Uranus 101167-05-24 20:38 G 38671691.19 38671691.36 38671691.54 0.0136 0.0058

Uranus 101167-08-21 04:18 G 38671779.49 38671779.68 38671779.87 0.0136 0.0031

Uranus 101167-11-17 11:59 G 38671867.81 38671868.00 38671868.20 0.0136 0.0004

Uranus 101168-02-13 19:40 G 38671956.13 38671956.32 38671956.52 0.0136 0.0025

Uranus 101168-05-12 03:21 G 38672044.47 38672044.64 38672044.83 0.0136 0.0053

Jupiter 101168-08-05 10:18 G 38672129.83 38672129.93 38672130.03 0.0514 0.0430

Uranus 101168-08-08 11:16 G 38672132.81 38672132.97 38672133.12 0.0136 0.0080

Uranus 101168-11-04 18:42 G 38672221.17 38672221.28 38672221.41 0.0136 0.0108

Uranus 101169-02-01 02:23 G 38672309.60 38672309.60 38672309.62 0.0136 0.0136

Mars 101169-03-20 06:14 G 38672356.65 38672356.76 38672356.86 0.1607 0.0667

Venus 101169-06-10 23:16 G 38672439.39 38672439.47 38672439.55 0.3639 0.2241

Saturn 101169-06-12 06:42 G 38672440.72 38672440.78 38672440.84 0.0293 0.0256

Saturn 101169-09-08 18:28 G 38672529.15 38672529.27 38672529.39 0.0292 0.0094

Saturn 101169-12-06 05:59 G 38672617.63 38672617.75 38672617.88 0.0291 0.0066

Saturn 101170-03-04 17:30 G 38672706.15 38672706.23 38672706.31 0.0290 0.0224

Jupiter 101174-04-05 12:14 G 38674198.92 38674199.01 38674199.11 0.0512 0.0314

Jupiter 101174-07-03 15:50 G 38674288.07 38674288.16 38674288.26 0.0510 0.0314

Mars 101175-11-05 06:42 G 38674777.71 38674777.78 38674777.85 0.1923 0.1714

Earth 101177-02-27 08:52 G 38675257.77 38675257.87 38675257.98 0.2644 0.0507

Moon 101177-02-27 09:35 G 38675257.79 38675257.90 38675258.00 0.2643 0.0652 *

Mars 101178-08-10 17:59 G 38675787.13 38675787.25 38675787.36 0.1611 0.0225

Jupiter 101180-08-22 21:35 G 38676530.26 38676530.40 38676530.55 0.0515 0.0320

Saturn 101185-09-14 17:02 G 38678379.05 38678379.21 38678379.37 0.0270 0.0144

Saturn 101185-12-12 15:50 G 38678467.97 38678468.16 38678468.35 0.0271 0.0049

Jupiter 101186-01-22 16:47 G 38678509.16 38678509.20 38678509.25 0.0513 0.0474

Saturn 101186-03-11 14:23 G 38678557.03 38678557.10 38678557.20 0.0272 0.0246

Jupiter 101186-04-21 20:38 G 38678598.24 38678598.36 38678598.48 0.0511 0.0158

Mars 101188-01-01 05:30 G 38679217.62 38679217.73 38679217.85 0.1615 0.0230

Earth 101190-03-02 01:54 G 38680008.51 38680008.58 38680008.65 0.2643 0.1994

Moon 101190-03-02 02:23 G 38680008.53 38680008.60 38680008.67 0.2637 0.1981 *

Jupiter 101192-06-10 17:16 G 38680840.03 38680840.22 38680840.41 0.0514 0.0071

Earth 101193-08-29 07:11 G 38681284.71 38681284.80 38681284.89 0.2686 0.2193

Moon 101193-08-29 08:52 G 38681284.76 38681284.87 38681284.99 0.2688 0.1860 *

Venus 101194-05-13 07:11 G 38681541.73 38681541.80 38681541.86 0.3734 0.3407

Mars 101196-07-25 00:28 G 38682345.44 38682345.52 38682345.60 0.1936 0.1674

Earth 101197-02-23 03:35 G 38682558.59 38682558.65 38682558.71 0.2647 0.2169

Moon 101197-02-23 03:50 G 38682558.60 38682558.66 38682558.72 0.2653 0.2103 *

Mars 101197-05-23 17:02 G 38682648.11 38682648.21 38682648.32 0.1619 0.0687

Jupiter 101198-02-08 01:54 G 38682908.45 38682908.58 38682908.70 0.0512 0.0016

Saturn 101199-01-26 20:38 G 38683261.24 38683261.36 38683261.47 0.0292 0.0143

Saturn 101199-04-25 08:09 G 38683349.71 38683349.84 38683349.97 0.0291 0.0018

Mars 101199-04-28 18:28 G 38683353.19 38683353.27 38683353.35 0.1603 0.1167

Saturn 101199-07-22 19:40 G 38683438.22 38683438.32 38683438.42 0.0290 0.0176

Jupiter 101204-03-29 11:30 G 38685149.81 38685149.98 38685150.16 0.0514 0.0199

Mars 101205-12-14 16:04 G 38685775.00 38685775.17 38685775.34 0.1930 0.0045

Earth 101206-09-01 16:47 G 38686036.08 38686036.20 38686036.33 0.2688 0.1665

Moon 101206-09-01 18:42 G 38686036.16 38686036.28 38686036.40 0.2687 0.1819 *

Mars 101206-10-14 04:47 G 38686078.62 38686078.70 38686078.78 0.1623 0.1143

Mars 101208-09-18 06:14 G 38686783.65 38686783.76 38686783.86 0.1607 0.0721

Venus 101209-06-02 23:30 G 38687041.41 38687041.48 38687041.56 0.3645 0.2513

Uranus 101209-11-26 21:35 G 38687218.34 38687218.40 38687218.46 0.0141 0.0125

Jupiter 101209-11-27 06:57 G 38687218.67 38687218.79 38687218.91 0.0512 0.0140

Uranus 101210-02-23 00:57 G 38687306.46 38687306.54 38687306.63 0.0142 0.0104

Jupiter 101210-02-24 10:18 G 38687307.90 38687307.93 38687307.97 0.0510 0.0484

Earth 101210-02-25 20:38 G 38687309.25 38687309.36 38687309.46 0.2646 0.0684

Moon 101210-02-25 21:21 G 38687309.28 38687309.39 38687309.49 0.2648 0.0587 *

Uranus 101210-05-22 04:18 G 38687394.58 38687394.68 38687394.79 0.0142 0.0084

Uranus 101210-08-18 07:40 G 38687482.71 38687482.82 38687482.95 0.0142 0.0063

Uranus 101210-11-14 11:16 G 38687570.85 38687570.97 38687571.10 0.0142 0.0042

Uranus 101211-02-10 14:38 G 38687658.98 38687659.11 38687659.24 0.0142 0.0021

Uranus 101211-05-09 18:14 G 38687747.13 38687747.26 38687747.39 0.0142 0.0004

Uranus 101211-08-05 21:35 G 38687835.27 38687835.40 38687835.53 0.0142 0.0021

Uranus 101211-11-02 00:57 G 38687923.42 38687923.54 38687923.67 0.0142 0.0042

Uranus 101212-01-29 04:18 G 38688011.57 38688011.68 38688011.80 0.0142 0.0063

Uranus 101212-04-26 07:40 G 38688099.72 38688099.82 38688099.93 0.0142 0.0085

Uranus 101212-07-23 11:16 G 38688187.88 38688187.97 38688188.06 0.0142 0.0105

Uranus 101212-10-19 14:38 G 38688276.05 38688276.11 38688276.17 0.0142 0.0127

Venus 101214-12-17 14:38 G 38689065.01 38689065.11 38689065.21 0.3643 0.0704

Saturn 101215-02-01 16:04 G 38689111.04 38689111.17 38689111.31 0.0269 0.0195

Saturn 101215-05-01 14:52 G 38689199.93 38689200.12 38689200.31 0.0270 0.0003

Mars 101215-05-06 07:40 G 38689204.73 38689204.82 38689204.91 0.1923 0.1584

Saturn 101215-07-29 13:40 G 38689288.94 38689289.07 38689289.21 0.0271 0.0192

Jupiter 101216-01-16 07:40 G 38689459.73 38689459.82 38689459.92 0.0514 0.0437

Mars 101216-03-05 16:18 G 38689509.16 38689509.18 38689509.19 0.1628 0.1607

Mars 101218-02-08 17:45 G 38690214.13 38690214.24 38690214.36 0.1611 0.0279

Venus 101220-07-02 05:45 G 38691088.64 38691088.74 38691088.83 0.3640 0.1092

Jupiter 101221-09-15 11:30 G 38691528.88 38691528.98 38691529.08 0.0512 0.0301

Jupiter 101221-12-13 15:06 G 38691618.03 38691618.13 38691618.22 0.0510 0.0325

Earth 101223-02-28 13:40 G 38692059.97 38692060.07 38692060.17 0.2644 0.0808

Moon 101223-02-28 14:09 G 38692059.99 38692060.09 38692060.20 0.2641 0.0881 *

Venus 101226-01-15 20:38 G 38693112.30 38693112.36 38693112.42 0.3638 0.2856

Mars 101227-07-02 05:30 G 38693644.61 38693644.73 38693644.84 0.1615 0.0181

Jupiter 101228-02-02 19:40 G 38693860.18 38693860.32 38693860.47 0.0515 0.0323

Saturn 101228-06-14 22:04 G 38693993.33 38693993.42 38693993.51 0.0293 0.0201

Saturn 101228-09-11 09:35 G 38694081.78 38694081.90 38694082.03 0.0292 0.0041

Saturn 101228-12-08 21:21 G 38694170.27 38694170.39 38694170.50 0.0291 0.0120

Saturn 101229-03-07 08:38 G 38694258.83 38694258.86 38694258.90 0.0290 0.0277

Jupiter 101233-07-04 16:04 G 38695839.12 38695839.17 38695839.22 0.0513 0.0461

Jupiter 101233-10-01 19:40 G 38695928.20 38695928.32 38695928.44 0.0511 0.0169

Mars 101236-01-24 01:11 G 38696772.49 38696772.55 38696772.61 0.1937 0.1798

Earth 101236-03-02 06:42 G 38696810.73 38696810.78 38696810.83 0.2643 0.2298

Moon 101236-03-02 06:57 G 38696810.75 38696810.79 38696810.83 0.2637 0.2393 *

Mars 101236-11-21 17:02 G 38697075.11 38697075.21 38697075.32 0.1619 0.0632

Mars 101238-10-27 18:28 G 38697780.20 38697780.27 38697780.35 0.1603 0.1222

Earth 101239-08-30 14:09 G 38698086.96 38698087.09 38698087.23 0.2687 0.1466

Moon 101239-08-30 16:04 G 38698087.03 38698087.17 38698087.32 0.2688 0.1220 *

Jupiter 101239-11-21 15:35 G 38698169.97 38698170.15 38698170.34 0.0515 0.0077

Neptune 101242-04-20 02:09 G 38699050.51 38699050.59 38699050.67 0.0090 0.0081

Neptune 101242-07-17 05:30 G 38699138.63 38699138.73 38699138.87 0.0090 0.0071

Neptune 101242-10-13 09:21 G 38699226.76 38699226.89 38699227.06 0.0090 0.0060

Neptune 101243-01-09 13:11 G 38699314.90 38699315.05 38699315.23 0.0090 0.0049

Earth 101243-02-24 08:09 G 38699360.77 38699360.84 38699360.92 0.2647 0.1872

Moon 101243-02-24 08:38 G 38699360.79 38699360.86 38699360.94 0.2652 0.1855 *

Neptune 101243-04-07 17:16 G 38699403.05 38699403.22 38699403.41 0.0090 0.0038

Neptune 101243-07-04 21:06 G 38699491.20 38699491.38 38699491.58 0.0090 0.0027

Neptune 101243-10-01 00:57 G 38699579.35 38699579.54 38699579.74 0.0090 0.0016

Neptune 101243-12-28 04:47 G 38699667.51 38699667.70 38699667.90 0.0090 0.0006

Neptune 101244-03-25 08:38 G 38699755.67 38699755.86 38699756.06 0.0090 0.0006

Saturn 101244-06-20 14:38 G 38699843.05 38699843.11 38699843.18 0.0270 0.0252

Neptune 101244-06-21 12:28 G 38699843.83 38699844.02 38699844.22 0.0090 0.0017

Saturn 101244-09-17 13:26 G 38699931.87 38699932.06 38699932.25 0.0270 0.0060

Neptune 101244-09-17 16:18 G 38699932.00 38699932.18 38699932.37 0.0090 0.0028 *

Neptune 101244-12-14 20:09 G 38700020.17 38700020.34 38700020.52 0.0090 0.0039

Saturn 101244-12-15 11:59 G 38700020.84 38700021.00 38700021.18 0.0271 0.0135

Neptune 101245-03-12 23:45 G 38700108.34 38700108.49 38700108.67 0.0090 0.0050

Venus 101245-06-02 20:52 G 38700190.23 38700190.37 38700190.50 0.3731 0.2029

Neptune 101245-06-09 03:35 G 38700196.52 38700196.65 38700196.81 0.0090 0.0061

Mars 101245-06-14 17:16 G 38700202.05 38700202.22 38700202.38 0.1930 0.0187

Jupiter 101245-07-21 00:28 G 38700238.39 38700238.52 38700238.64 0.0512 0.0014

Neptune 101245-09-05 07:11 G 38700284.70 38700284.80 38700284.94 0.0090 0.0072

Neptune 101245-12-02 11:02 G 38700372.91 38700372.96 38700373.06 0.0090 0.0083

Mars 101246-04-14 04:47 G 38700505.61 38700505.70 38700505.78 0.1623 0.1094

Mars 101248-03-19 06:14 G 38701210.66 38701210.76 38701210.86 0.1607 0.0778

Uranus 101250-09-22 04:47 G 38702127.68 38702127.70 38702127.76 0.0137 0.0134

Uranus 101250-12-19 12:42 G 38702215.92 38702216.03 38702216.16 0.0137 0.0106

Uranus 101251-03-17 20:23 G 38702304.20 38702304.35 38702304.52 0.0136 0.0078

Uranus 101251-06-14 04:18 G 38702392.50 38702392.68 38702392.87 0.0136 0.0050

Jupiter 101251-09-09 11:02 G 38702479.79 38702479.96 38702480.14 0.0514 0.0173

Uranus 101251-09-10 12:14 G 38702480.81 38702481.01 38702481.20 0.0136 0.0022

Uranus 101251-12-07 19:54 G 38702569.13 38702569.33 38702569.53 0.0136 0.0006

Uranus 101252-03-05 03:35 G 38702657.46 38702657.65 38702657.84 0.0136 0.0034

Uranus 101252-06-01 11:02 G 38702745.80 38702745.96 38702746.15 0.0136 0.0063

Uranus 101252-08-28 18:42 G 38702834.15 38702834.28 38702834.44 0.0136 0.0090

Earth 101252-09-01 23:45 G 38702838.42 38702838.49 38702838.57 0.2688 0.2381

Uranus 101252-11-25 02:38 G 38702922.52 38702922.61 38702922.71 0.0136 0.0117

Mars 101254-11-04 08:38 G 38703631.75 38703631.86 38703631.97 0.1923 0.1454

Mars 101255-09-04 16:18 G 38703936.15 38703936.18 38703936.21 0.1628 0.1556

Earth 101256-02-27 01:26 G 38704111.45 38704111.56 38704111.66 0.2645 0.0395

Moon 101256-02-27 01:54 G 38704111.47 38704111.58 38704111.69 0.2648 0.0265 *

Jupiter 101257-05-09 05:30 G 38704548.61 38704548.73 38704548.85 0.0512 0.0141

Jupiter 101257-08-06 09:06 G 38704637.84 38704637.88 38704637.91 0.0510 0.0483

Mars 101257-08-09 17:45 G 38704641.13 38704641.24 38704641.36 0.1610 0.0327

Saturn 101257-11-02 00:28 G 38704725.45 38704725.52 38704725.59 0.0293 0.0246

Saturn 101258-01-29 11:59 G 38704813.88 38704814.00 38704814.13 0.0292 0.0085

Saturn 101258-04-27 23:45 G 38704902.36 38704902.49 38704902.61 0.0291 0.0076

Saturn 101258-07-25 11:02 G 38704990.89 38704990.96 38704991.04 0.0290 0.0233

Jupiter 101263-06-28 05:16 G 38706789.63 38706789.72 38706789.82 0.0513 0.0441

Venus 101266-01-07 20:52 G 38707714.29 38707714.37 38707714.46 0.3645 0.1877

Mars 101266-12-31 05:30 G 38708071.61 38708071.73 38708071.84 0.1615 0.0136

Jupiter 101269-02-25 10:33 G 38708858.83 38708858.94 38708859.04 0.0513 0.0292

Earth 101269-02-28 18:28 G 38708862.17 38708862.27 38708862.36 0.2644 0.1115

Moon 101269-02-28 18:57 G 38708862.19 38708862.29 38708862.39 0.2640 0.1212 *

Jupiter 101269-05-25 14:09 G 38708947.99 38708948.09 38708948.18 0.0510 0.0335

Pluto 101270-01-11 09:35 G 38709178.87 38709178.90 38709178.96 0.0060 0.0058

Pluto 101270-04-09 10:47 G 38709266.86 38709266.95 38709267.08 0.0060 0.0048

Pluto 101270-07-06 12:14 G 38709354.87 38709355.01 38709355.17 0.0060 0.0038

Pluto 101270-10-02 13:26 G 38709442.90 38709443.06 38709443.24 0.0060 0.0028

Pluto 101270-12-29 14:52 G 38709530.94 38709531.12 38709531.31 0.0060 0.0018

Pluto 101271-03-27 16:04 G 38709618.99 38709619.17 38709619.37 0.0060 0.0009

Pluto 101271-06-23 17:30 G 38709707.04 38709707.23 38709707.42 0.0060 0.0002

Venus 101271-07-24 11:59 G 38709737.90 38709738.00 38709738.10 0.3642 0.0081

Pluto 101271-09-19 18:28 G 38709795.10 38709795.27 38709795.47 0.0060 0.0013

Pluto 101271-12-16 19:40 G 38709883.16 38709883.32 38709883.51 0.0060 0.0023

Pluto 101272-03-13 20:52 G 38709971.23 38709971.37 38709971.55 0.0061 0.0033

Pluto 101272-06-09 22:18 G 38710059.31 38710059.43 38710059.58 0.0061 0.0043

Pluto 101272-09-05 23:30 G 38710147.41 38710147.48 38710147.59 0.0061 0.0053

Saturn 101274-02-04 13:11 G 38710663.87 38710664.05 38710664.22 0.0270 0.0106

Saturn 101274-05-04 11:59 G 38710752.82 38710753.00 38710753.18 0.0271 0.0087

Jupiter 101275-07-15 16:33 G 38711190.05 38711190.19 38711190.35 0.0515 0.0308

Mars 101276-05-22 17:02 G 38711502.10 38711502.21 38711502.32 0.1619 0.0581

Venus 101277-02-06 02:52 G 38711761.54 38711761.62 38711761.71 0.3640 0.1711

Mars 101278-04-27 18:28 G 38712207.20 38712207.27 38712207.34 0.1603 0.1275

Jupiter 101280-12-14 14:52 G 38713169.07 38713169.12 38713169.18 0.0513 0.0455

Jupiter 101281-03-13 18:42 G 38713258.16 38713258.28 38713258.39 0.0511 0.0176

Earth 101282-03-03 11:30 G 38713612.96 38713612.98 38713612.99 0.2643 0.2604

Moon 101282-03-03 11:30 G 38713612.97 38713612.98 38713613.00 0.2637 0.2586 *

Venus 101282-08-22 17:59 G 38713785.22 38713785.25 38713785.27 0.3637 0.3472

Mars 101284-12-13 17:45 G 38714629.08 38714629.24 38714629.41 0.1930 0.0298

Earth 101285-08-30 21:21 G 38714889.23 38714889.39 38714889.54 0.2687 0.0735

Moon 101285-08-30 23:16 G 38714889.30 38714889.47 38714889.63 0.2689 0.0424 *

Mars 101285-10-13 04:47 G 38714932.61 38714932.70 38714932.78 0.1623 0.1041

Jupiter 101287-05-03 13:11 G 38715499.86 38715500.05 38715500.23 0.0515 0.0072

Saturn 101287-06-18 13:54 G 38715545.97 38715546.08 38715546.20 0.0293 0.0137

Saturn 101287-09-15 01:40 G 38715634.44 38715634.57 38715634.70 0.0292 0.0025

Mars 101287-09-18 05:59 G 38715637.65 38715637.75 38715637.85 0.1607 0.0831

Saturn 101287-12-12 13:11 G 38715722.95 38715723.05 38715723.15 0.0290 0.0183

Earth 101289-02-24 12:57 G 38716162.96 38716163.04 38716163.13 0.2646 0.1567

Moon 101289-02-24 13:26 G 38716162.97 38716163.06 38716163.15 0.2652 0.1437 *

Jupiter 101292-12-30 23:16 G 38717568.34 38717568.47 38717568.59 0.0511 0.0018

Uranus 101293-09-20 01:40 G 38717831.56 38717831.57 38717831.60 0.0141 0.0139

Uranus 101293-12-17 05:02 G 38717919.65 38717919.71 38717919.79 0.0141 0.0119

Uranus 101294-03-15 08:38 G 38718007.77 38718007.86 38718007.95 0.0141 0.0098

Mars 101294-05-05 09:21 G 38718058.77 38718058.89 38718059.02 0.1923 0.1328

Uranus 101294-06-11 11:59 G 38718095.89 38718096.00 38718096.11 0.0142 0.0077

Uranus 101294-09-07 15:21 G 38718184.02 38718184.14 38718184.26 0.0142 0.0056

Uranus 101294-12-04 18:42 G 38718272.16 38718272.28 38718272.41 0.0142 0.0036

Uranus 101295-03-02 22:18 G 38718360.30 38718360.43 38718360.56 0.0142 0.0015

Mars 101295-03-05 16:18 G 38718363.13 38718363.18 38718363.22 0.1628 0.1501

Uranus 101295-05-30 01:40 G 38718448.44 38718448.57 38718448.70 0.0142 0.0007

Uranus 101295-08-26 05:02 G 38718536.58 38718536.71 38718536.84 0.0142 0.0028

Uranus 101295-11-22 08:23 G 38718624.73 38718624.85 38718624.98 0.0142 0.0049

Uranus 101296-02-18 11:59 G 38718712.88 38718713.00 38718713.11 0.0142 0.0069

Uranus 101296-05-16 15:21 G 38718801.04 38718801.14 38718801.24 0.0142 0.0090

Uranus 101296-08-12 18:42 G 38718889.20 38718889.28 38718889.36 0.0142 0.0111

Uranus 101296-11-08 22:04 G 38718977.38 38718977.42 38718977.47 0.0142 0.0132

Mars 101297-02-07 17:45 G 38719068.13 38719068.24 38719068.36 0.1610 0.0383

Jupiter 101299-02-19 08:52 G 38719809.70 38719809.87 38719810.05 0.0514 0.0173

Venus 101302-01-08 23:59 G 38720863.34 38720863.50 38720863.67 0.3732 0.0411

Earth 101302-02-28 05:59 G 38720913.65 38720913.75 38720913.86 0.2645 0.0106

Moon 101302-02-28 06:42 G 38720913.67 38720913.78 38720913.89 0.2646 0.0007 *

Saturn 101303-06-25 12:14 G 38721395.85 38721396.01 38721396.16 0.0270 0.0159

Saturn 101303-09-22 11:02 G 38721484.76 38721484.96 38721485.15 0.0271 0.0034

Saturn 101303-12-20 09:50 G 38721573.81 38721573.91 38721574.01 0.0272 0.0229

Jupiter 101304-10-20 03:50 G 38721878.54 38721878.66 38721878.78 0.0512 0.0146

Jupiter 101305-01-17 07:11 G 38721967.76 38721967.80 38721967.84 0.0510 0.0478

Mars 101306-07-02 05:30 G 38722498.61 38722498.73 38722498.84 0.1614 0.0092

Jupiter 101310-12-09 04:33 G 38724119.58 38724119.69 38724119.79 0.0513 0.0422

Earth 101315-03-02 23:02 G 38725664.37 38725664.46 38725664.55 0.2644 0.1416

Moon 101315-03-02 23:45 G 38725664.40 38725664.49 38725664.57 0.2640 0.1510 *

Mars 101315-11-22 17:02 G 38725929.10 38725929.21 38725929.32 0.1619 0.0530

Jupiter 101316-08-08 08:38 G 38726188.76 38726188.86 38726188.96 0.0513 0.0298

Jupiter 101316-11-05 12:14 G 38726277.92 38726278.01 38726278.11 0.0511 0.0330

Saturn 101316-11-05 16:47 G 38726278.10 38726278.20 38726278.30 0.0292 0.0176 *

Venus 101317-01-30 03:06 G 38726363.58 38726363.63 38726363.69 0.3646 0.3056

Saturn 101317-02-02 04:33 G 38726366.56 38726366.69 38726366.81 0.0291 0.0017

Saturn 101317-05-01 16:04 G 38726455.05 38726455.17 38726455.28 0.0290 0.0144

Mars 101317-10-27 18:28 G 38726634.20 38726634.27 38726634.33 0.1603 0.1331

Venus 101322-08-15 18:14 G 38728387.17 38728387.26 38728387.36 0.3644 0.1242

Neptune 101322-11-13 04:33 G 38728476.66 38728476.69 38728476.74 0.0088 0.0083

Jupiter 101322-12-26 13:40 G 38728519.92 38728520.07 38728520.23 0.0515 0.0297

Neptune 101323-02-09 05:45 G 38728564.69 38728564.74 38728564.81 0.0088 0.0076

Neptune 101323-05-08 07:11 G 38728652.72 38728652.80 38728652.88 0.0088 0.0069

Neptune 101323-08-04 08:23 G 38728740.76 38728740.85 38728740.95 0.0088 0.0062

Neptune 101323-10-31 09:35 G 38728828.81 38728828.90 38728829.01 0.0088 0.0055

Neptune 101324-01-27 10:47 G 38728916.85 38728916.95 38728917.07 0.0088 0.0049

Neptune 101324-04-24 12:14 G 38729004.90 38729005.01 38729005.13 0.0088 0.0042

Mars 101324-06-14 18:42 G 38729056.12 38729056.28 38729056.45 0.1930 0.0436

Neptune 101324-07-21 13:26 G 38729092.94 38729093.06 38729093.18 0.0088 0.0035

Neptune 101324-10-17 14:38 G 38729180.99 38729181.11 38729181.24 0.0088 0.0028

Neptune 101325-01-13 15:50 G 38729269.04 38729269.16 38729269.29 0.0088 0.0022

Neptune 101325-04-11 17:02 G 38729357.09 38729357.21 38729357.35 0.0088 0.0015

Mars 101325-04-14 04:33 G 38729359.60 38729359.69 38729359.78 0.1623 0.0989

Neptune 101325-07-08 18:28 G 38729445.14 38729445.27 38729445.40 0.0088 0.0008

Neptune 101325-10-04 19:40 G 38729533.19 38729533.32 38729533.45 0.0088 0.0001

Neptune 101325-12-31 20:52 G 38729621.24 38729621.37 38729621.50 0.0088 0.0006

Neptune 101326-03-29 22:04 G 38729709.29 38729709.42 38729709.55 0.0088 0.0013

Neptune 101326-06-25 23:16 G 38729797.35 38729797.47 38729797.60 0.0088 0.0020

Neptune 101326-09-22 00:28 G 38729885.40 38729885.52 38729885.65 0.0088 0.0027

Neptune 101326-12-19 01:40 G 38729973.46 38729973.57 38729973.70 0.0088 0.0034

Neptune 101327-03-17 02:52 G 38730061.51 38730061.62 38730061.75 0.0088 0.0041

Mars 101327-03-20 05:59 G 38730064.65 38730064.75 38730064.85 0.1607 0.0883

Neptune 101327-06-13 04:18 G 38730149.57 38730149.68 38730149.79 0.0088 0.0047

Neptune 101327-09-09 05:30 G 38730237.63 38730237.73 38730237.84 0.0088 0.0054

Neptune 101327-12-06 06:42 G 38730325.69 38730325.78 38730325.88 0.0088 0.0061

Venus 101328-02-29 09:21 G 38730410.79 38730410.89 38730410.99 0.3641 0.0558

Neptune 101328-03-03 07:54 G 38730413.75 38730413.83 38730413.92 0.0088 0.0068

Jupiter 101328-05-27 13:26 G 38730499.01 38730499.06 38730499.12 0.0513 0.0452

Neptune 101328-05-30 09:06 G 38730501.82 38730501.88 38730501.96 0.0088 0.0075

Jupiter 101328-08-24 17:16 G 38730588.10 38730588.22 38730588.34 0.0511 0.0179

Neptune 101328-08-26 10:18 G 38730589.89 38730589.93 38730589.99 0.0088 0.0081

Earth 101331-09-02 04:04 G 38731691.51 38731691.67 38731691.84 0.2687 0.0060

Moon 101331-09-02 05:59 G 38731691.59 38731691.75 38731691.91 0.2688 0.0261 *

Saturn 101332-11-11 12:14 G 38732127.89 38732128.01 38732128.15 0.0270 0.0201

Saturn 101333-02-08 11:16 G 38732216.78 38732216.97 38732217.16 0.0270 0.0008

Saturn 101333-05-08 10:04 G 38732305.79 38732305.92 38732306.06 0.0271 0.0187

Venus 101333-09-14 00:14 G 38732434.44 38732434.51 38732434.59 0.3639 0.2327

Mars 101333-11-04 10:33 G 38732485.81 38732485.94 38732486.07 0.1923 0.1188

Mars 101334-09-04 16:04 G 38732790.12 38732790.17 38732790.22 0.1628 0.1452

Uranus 101334-10-13 12:28 G 38732828.96 38732829.02 38732829.12 0.0137 0.0125

Jupiter 101334-10-14 09:35 G 38732829.72 38732829.90 38732830.09 0.0514 0.0051

Uranus 101335-01-09 20:23 G 38732917.22 38732917.35 38732917.50 0.0137 0.0097

Earth 101335-02-26 17:45 G 38732965.15 38732965.24 38732965.33 0.2646 0.1255

Moon 101335-02-26 18:14 G 38732965.16 38732965.26 38732965.35 0.2652 0.1245 *

Uranus 101335-04-08 04:18 G 38733005.52 38733005.68 38733005.85 0.0136 0.0069

Uranus 101335-07-05 11:59 G 38733093.82 38733094.00 38733094.19 0.0136 0.0041

Uranus 101335-10-01 19:54 G 38733182.13 38733182.33 38733182.52 0.0136 0.0013

Uranus 101335-12-29 03:35 G 38733270.46 38733270.65 38733270.85 0.0136 0.0015

Uranus 101336-03-26 11:16 G 38733358.79 38733358.97 38733359.16 0.0136 0.0043

Uranus 101336-06-22 18:42 G 38733447.13 38733447.28 38733447.46 0.0136 0.0072

Mars 101336-08-09 17:45 G 38733495.13 38733495.24 38733495.35 0.1610 0.0435

Uranus 101336-09-19 02:38 G 38733535.48 38733535.61 38733535.75 0.0136 0.0099

Uranus 101336-12-16 10:18 G 38733623.87 38733623.93 38733624.01 0.0136 0.0126

Jupiter 101340-06-12 21:50 G 38734898.28 38734898.41 38734898.53 0.0511 0.0019

Mars 101345-12-31 05:16 G 38736925.61 38736925.72 38736925.84 0.1614 0.0029

Saturn 101346-03-25 19:11 G 38737010.22 38737010.30 38737010.38 0.0293 0.0223

Saturn 101346-06-22 06:57 G 38737098.66 38737098.79 38737098.91 0.0292 0.0062

Jupiter 101346-08-02 05:59 G 38737139.58 38737139.75 38737139.92 0.0514 0.0186

Saturn 101346-09-18 18:28 G 38737187.15 38737187.27 38737187.39 0.0291 0.0098

Saturn 101346-12-16 05:45 G 38737275.69 38737275.74 38737275.80 0.0290 0.0256

Earth 101348-02-29 10:47 G 38737715.84 38737715.95 38737716.06 0.2645 0.0231

Moon 101348-02-29 11:30 G 38737715.87 38737715.98 38737716.08 0.2644 0.0396 *

Jupiter 101352-04-01 02:23 G 38739208.48 38739208.60 38739208.72 0.0512 0.0143

Jupiter 101352-06-29 05:59 G 38739297.71 38739297.75 38739297.79 0.0510 0.0479

Mars 101355-05-23 17:02 G 38740356.10 38740356.21 38740356.32 0.1618 0.0473

Mars 101357-04-27 18:14 G 38741061.21 38741061.26 38741061.32 0.1603 0.1387

Jupiter 101358-05-21 01:54 G 38741449.48 38741449.58 38741449.68 0.0513 0.0428

Venus 101358-08-16 03:21 G 38741536.54 38741536.64 38741536.75 0.3733 0.2863

Earth 101361-03-03 03:50 G 38742466.58 38742466.66 38742466.74 0.2644 0.1719

Moon 101361-03-03 04:18 G 38742466.60 38742466.68 38742466.76 0.2640 0.1790 *

Saturn 101362-03-31 11:45 G 38742859.93 38742859.99 38742860.07 0.0270 0.0250

Saturn 101362-06-28 10:33 G 38742948.76 38742948.94 38742949.13 0.0271 0.0058

Saturn 101362-09-25 09:21 G 38743037.73 38743037.89 38743038.06 0.0272 0.0137

Mars 101363-12-14 20:09 G 38743483.18 38743483.34 38743483.50 0.1931 0.0590

Jupiter 101364-01-19 06:42 G 38743518.68 38743518.78 38743518.88 0.0513 0.0308

Jupiter 101364-04-17 10:33 G 38743607.84 38743607.94 38743608.03 0.0511 0.0320

Mars 101364-10-13 04:33 G 38743786.60 38743786.69 38743786.78 0.1623 0.0935

Pluto 101364-10-15 17:02 G 38743789.14 38743789.21 38743789.28 0.0084 0.0071

Pluto 101365-01-11 18:14 G 38743877.16 38743877.26 38743877.37 0.0084 0.0052

Pluto 101365-04-09 19:26 G 38743965.19 38743965.31 38743965.44 0.0084 0.0033

Pluto 101365-07-06 20:52 G 38744053.23 38744053.37 38744053.50 0.0083 0.0014

Pluto 101365-10-02 22:04 G 38744141.28 38744141.42 38744141.55 0.0083 0.0006

Pluto 101365-12-29 23:16 G 38744229.34 38744229.47 38744229.60 0.0083 0.0025

Pluto 101366-03-28 00:28 G 38744317.40 38744317.52 38744317.63 0.0083 0.0043

Pluto 101366-06-24 01:26 G 38744405.48 38744405.56 38744405.66 0.0083 0.0062

Mars 101366-09-18 05:59 G 38744491.66 38744491.75 38744491.85 0.1606 0.0942

Pluto 101366-09-20 02:38 G 38744493.59 38744493.61 38744493.65 0.0083 0.0081

Earth 101368-02-25 05:30 G 38745016.69 38745016.73 38745016.77 0.2647 0.2441

Moon 101368-02-25 05:30 G 38745016.70 38745016.73 38745016.77 0.2654 0.2470 *

Jupiter 101370-06-07 12:28 G 38745849.87 38745850.02 38745850.17 0.0515 0.0308

Mars 101373-05-05 11:16 G 38746912.83 38746912.97 38746913.11 0.1923 0.1066

Venus 101373-09-06 00:28 G 38747036.45 38747036.52 38747036.60 0.3646 0.2416

Mars 101374-03-05 16:04 G 38747217.11 38747217.17 38747217.23 0.1628 0.1400

Saturn 101375-08-12 22:18 G 38747742.37 38747742.43 38747742.49 0.0293 0.0258

Jupiter 101375-11-07 11:30 G 38747828.93 38747828.98 38747829.04 0.0514 0.0464

Saturn 101375-11-09 10:04 G 38747830.80 38747830.92 38747831.04 0.0292 0.0097

Jupiter 101376-02-04 15:21 G 38747918.02 38747918.14 38747918.26 0.0511 0.0169

Saturn 101376-02-05 21:35 G 38747919.27 38747919.40 38747919.53 0.0291 0.0064

Mars 101376-02-08 17:45 G 38747922.12 38747922.24 38747922.35 0.1610 0.0491

Saturn 101376-05-04 08:52 G 38748007.80 38748007.87 38748007.96 0.0290 0.0222

Earth 101377-09-02 11:16 G 38748493.81 38748493.97 38748494.12 0.2688 0.0720

Moon 101377-09-02 12:57 G 38748493.89 38748494.04 38748494.20 0.2687 0.0948 *

Uranus 101377-10-11 09:50 G 38748532.86 38748532.91 38748532.96 0.0141 0.0130

Uranus 101378-01-07 13:11 G 38748620.97 38748621.05 38748621.13 0.0141 0.0110

Uranus 101378-04-05 16:33 G 38748709.09 38748709.19 38748709.29 0.0141 0.0089

Uranus 101378-07-02 19:54 G 38748797.22 38748797.33 38748797.45 0.0142 0.0068

Uranus 101378-09-28 23:16 G 38748885.35 38748885.47 38748885.60 0.0142 0.0048

Uranus 101378-12-26 02:52 G 38748973.49 38748973.62 38748973.75 0.0142 0.0027

Venus 101379-03-22 15:35 G 38749060.05 38749060.15 38749060.25 0.3643 0.0609

Uranus 101379-03-24 06:14 G 38749061.63 38749061.76 38749061.89 0.0142 0.0006

Uranus 101379-06-20 09:35 G 38749149.77 38749149.90 38749150.03 0.0142 0.0015

Uranus 101379-09-16 12:57 G 38749237.92 38749238.04 38749238.17 0.0142 0.0036

Uranus 101379-12-13 16:18 G 38749326.07 38749326.18 38749326.31 0.0142 0.0057

Uranus 101380-03-10 19:40 G 38749414.22 38749414.32 38749414.44 0.0142 0.0078

Uranus 101380-06-06 23:02 G 38749502.38 38749502.46 38749502.56 0.0142 0.0099

Uranus 101380-09-03 02:23 G 38749590.54 38749590.60 38749590.68 0.0142 0.0121

Uranus 101380-11-30 05:59 G 38749678.74 38749678.75 38749678.77 0.0142 0.0141

Earth 101381-02-26 22:33 G 38749767.34 38749767.44 38749767.54 0.2646 0.0953

Moon 101381-02-26 23:02 G 38749767.35 38749767.46 38749767.56 0.2651 0.0818 *

Jupiter 101382-03-26 06:28 G 38750159.59 38750159.77 38750159.96 0.0514 0.0039

Venus 101384-10-05 06:42 G 38751083.68 38751083.78 38751083.87 0.3641 0.1183

Mars 101385-07-01 05:16 G 38751352.60 38751352.72 38751352.84 0.1614 0.0038

Jupiter 101387-11-23 20:23 G 38752228.22 38752228.35 38752228.47 0.0512 0.0020

Venus 101390-04-20 21:35 G 38753107.34 38753107.40 38753107.46 0.3638 0.2940

Saturn 101391-11-15 11:16 G 38753680.79 38753680.97 38753681.15 0.0270 0.0097

Saturn 101392-02-12 10:04 G 38753769.75 38753769.92 38753770.10 0.0271 0.0097

Jupiter 101394-01-12 02:23 G 38754469.43 38754469.60 38754469.77 0.0514 0.0210

Earth 101394-03-01 15:35 G 38754518.04 38754518.15 38754518.25 0.2645 0.0544

Moon 101394-03-01 16:18 G 38754518.07 38754518.18 38754518.28 0.2644 0.0600 *

Mars 101394-11-21 16:47 G 38754783.09 38754783.20 38754783.32 0.1619 0.0425

Mars 101396-10-26 18:14 G 38755488.22 38755488.26 38755488.31 0.1603 0.1441

Jupiter 101399-09-12 00:42 G 38756538.41 38756538.53 38756538.65 0.0512 0.0148

Jupiter 101399-12-10 04:18 G 38756627.64 38756627.68 38756627.72 0.0510 0.0475

Mars 101403-06-15 20:23 G 38757910.20 38757910.35 38757910.51 0.1931 0.0692

Mars 101404-04-14 04:33 G 38758213.59 38758213.69 38758213.79 0.1623 0.0882

Saturn 101405-03-29 12:57 G 38758562.92 38758563.04 38758563.15 0.0292 0.0137

Saturn 101405-06-26 00:28 G 38758651.39 38758651.52 38758651.65 0.0291 0.0023

Saturn 101405-09-22 11:59 G 38758739.90 38758740.00 38758740.10 0.0290 0.0182

Jupiter 101405-10-31 22:33 G 38758779.35 38758779.44 38758779.53 0.0513 0.0447

Mars 101406-03-20 05:59 G 38758918.66 38758918.75 38758918.84 0.1606 0.0993

Neptune 101407-01-16 22:18 G 38759221.37 38759221.43 38759221.54 0.0090 0.0081

Earth 101407-03-05 08:38 G 38759268.79 38759268.86 38759268.92 0.2644 0.2031

Moon 101407-03-05 08:52 G 38759268.81 38759268.87 38759268.94 0.2639 0.2124 *

Neptune 101407-04-15 02:23 G 38759309.49 38759309.60 38759309.74 0.0090 0.0070

Neptune 101407-07-12 06:14 G 38759397.63 38759397.76 38759397.92 0.0090 0.0059

Neptune 101407-10-08 10:04 G 38759485.77 38759485.92 38759486.10 0.0090 0.0048

Neptune 101408-01-04 14:09 G 38759573.91 38759574.09 38759574.27 0.0090 0.0037

Neptune 101408-04-01 17:59 G 38759662.06 38759662.25 38759662.44 0.0090 0.0026

Neptune 101408-06-28 21:50 G 38759750.22 38759750.41 38759750.61 0.0090 0.0015

Neptune 101408-09-25 01:40 G 38759838.37 38759838.57 38759838.77 0.0090 0.0004

Neptune 101408-12-22 05:30 G 38759926.53 38759926.73 38759926.93 0.0090 0.0007

Neptune 101409-03-20 09:21 G 38760014.70 38760014.89 38760015.08 0.0090 0.0018

Neptune 101409-06-16 12:57 G 38760102.86 38760103.04 38760103.24 0.0090 0.0029

Venus 101409-09-06 17:16 G 38760185.10 38760185.22 38760185.34 0.3730 0.2507

Neptune 101409-09-12 16:47 G 38760191.03 38760191.20 38760191.39 0.0090 0.0040

Neptune 101409-12-09 20:23 G 38760279.21 38760279.35 38760279.53 0.0090 0.0051

Neptune 101410-03-08 00:14 G 38760367.39 38760367.51 38760367.67 0.0090 0.0062

Neptune 101410-06-04 04:33 G 38760455.57 38760455.69 38760455.80 0.0090 0.0072

Neptune 101410-08-31 08:09 G 38760543.78 38760543.84 38760543.92 0.0090 0.0083

Earth 101410-09-01 08:38 G 38760544.79 38760544.86 38760544.93 0.2686 0.2408

Moon 101410-09-01 10:18 G 38760544.84 38760544.93 38760545.01 0.2690 0.2289 *

Jupiter 101411-07-02 05:16 G 38760848.62 38760848.72 38760848.82 0.0513 0.0309

Jupiter 101411-09-29 08:52 G 38760937.77 38760937.87 38760937.97 0.0510 0.0317

Mars 101412-11-04 12:14 G 38761339.87 38761340.01 38761340.16 0.1924 0.0928

Mars 101413-09-04 16:04 G 38761644.11 38761644.17 38761644.23 0.1627 0.1344

Earth 101414-02-26 10:04 G 38761818.86 38761818.92 38761818.99 0.2647 0.2140

Moon 101414-02-26 10:18 G 38761818.87 38761818.93 38761819.00 0.2654 0.2079 *

Mars 101415-08-10 17:45 G 38762349.13 38762349.24 38762349.35 0.1610 0.0547

Jupiter 101417-11-18 09:35 G 38763179.75 38763179.90 38763180.05 0.0515 0.0296

Uranus 101418-11-03 21:06 G 38763530.27 38763530.38 38763530.48 0.0137 0.0114

Uranus 101419-01-31 04:33 G 38763618.55 38763618.69 38763618.85 0.0137 0.0086

Uranus 101419-04-29 12:14 G 38763706.85 38763707.01 38763707.20 0.0136 0.0059

Uranus 101419-07-26 20:09 G 38763795.15 38763795.34 38763795.54 0.0136 0.0030

Uranus 101419-10-23 04:04 G 38763883.47 38763883.67 38763883.86 0.0136 0.0003

Uranus 101420-01-19 11:45 G 38763971.80 38763971.99 38763972.18 0.0136 0.0025

Uranus 101420-04-16 19:26 G 38764060.13 38764060.31 38764060.49 0.0136 0.0053

Uranus 101420-07-14 02:52 G 38764148.48 38764148.62 38764148.79 0.0136 0.0082

Uranus 101420-10-10 10:33 G 38764236.84 38764236.94 38764237.07 0.0136 0.0109

Saturn 101421-04-04 10:47 G 38764412.80 38764412.95 38764413.12 0.0270 0.0145

Saturn 101421-07-02 09:50 G 38764501.72 38764501.91 38764502.10 0.0271 0.0049

Saturn 101421-09-29 08:52 G 38764590.79 38764590.87 38764590.95 0.0272 0.0246

Jupiter 101423-04-20 09:35 G 38765158.86 38765158.90 38765158.95 0.0513 0.0476

Jupiter 101423-07-18 13:26 G 38765247.94 38765248.06 38765248.18 0.0511 0.0156

Earth 101423-09-04 18:14 G 38765296.12 38765296.26 38765296.39 0.2688 0.1445

Moon 101423-09-04 19:54 G 38765296.21 38765296.33 38765296.45 0.2686 0.1801 *

Venus 101424-09-28 06:42 G 38765685.77 38765685.78 38765685.79 0.3648 0.3598

Mars 101424-12-31 05:16 G 38765779.60 38765779.72 38765779.83 0.1614 0.0093

Earth 101427-03-01 03:06 G 38766569.53 38766569.63 38766569.74 0.2646 0.0654

Moon 101427-03-01 03:50 G 38766569.55 38766569.66 38766569.76 0.2649 0.0611 *

Jupiter 101429-09-06 04:47 G 38767489.52 38767489.70 38767489.89 0.0514 0.0043

Venus 101430-04-13 21:50 G 38767709.32 38767709.41 38767709.50 0.3645 0.1783

Mars 101434-05-23 16:47 G 38769210.09 38769210.20 38769210.32 0.1618 0.0371

Saturn 101434-08-16 16:04 G 38769295.07 38769295.17 38769295.27 0.0292 0.0171

Saturn 101434-11-13 03:35 G 38769383.53 38769383.65 38769383.78 0.0291 0.0013

Saturn 101435-02-09 15:06 G 38769472.02 38769472.13 38769472.24 0.0290 0.0149

Jupiter 101435-05-06 18:14 G 38769558.13 38769558.26 38769558.39 0.0512 0.0006

Venus 101435-10-28 12:57 G 38769732.94 38769733.04 38769733.14 0.3643 0.0108

Mars 101436-04-27 18:14 G 38769915.22 38769915.26 38769915.30 0.1603 0.1495

Earth 101440-03-02 20:09 G 38771320.24 38771320.34 38771320.45 0.2645 0.0847

Moon 101440-03-02 20:52 G 38771320.27 38771320.37 38771320.47 0.2644 0.1020 *

Venus 101441-05-13 03:50 G 38771756.58 38771756.66 38771756.75 0.3640 0.1792

Jupiter 101441-06-24 23:02 G 38771799.30 38771799.46 38771799.63 0.0513 0.0225

Mars 101442-12-14 21:35 G 38772337.25 38772337.40 38772337.55 0.1931 0.0842

Mars 101443-10-14 04:33 G 38772640.59 38772640.69 38772640.79 0.1623 0.0830

Mars 101445-09-18 05:59 G 38773345.66 38773345.75 38773345.84 0.1606 0.1048

Venus 101446-11-26 18:42 G 38773780.27 38773780.28 38773780.30 0.3638 0.3544

Jupiter 101447-02-22 23:02 G 38773868.34 38773868.46 38773868.58 0.0513 0.0154

Jupiter 101447-05-23 02:38 G 38773957.56 38773957.61 38773957.65 0.0510 0.0471

Saturn 101450-08-22 11:45 G 38775144.85 38775144.99 38775145.14 0.0270 0.0183

Saturn 101450-11-19 10:47 G 38775233.75 38775233.95 38775234.14 0.0271 0.0012

Saturn 101451-02-16 09:35 G 38775322.78 38775322.90 38775323.03 0.0272 0.0207

Mars 101452-05-05 13:11 G 38775766.90 38775767.05 38775767.21 0.1924 0.0800

Earth 101453-03-05 13:11 G 38776071.00 38776071.05 38776071.10 0.2643 0.2337

Moon 101453-03-05 13:40 G 38776071.02 38776071.07 38776071.11 0.2638 0.2334 *

Mars 101453-03-05 16:04 G 38776071.10 38776071.17 38776071.24 0.1628 0.1296 *

Jupiter 101453-04-12 18:57 G 38776109.21 38776109.29 38776109.36 0.0513 0.0470

Mars 101455-02-08 17:30 G 38776776.12 38776776.23 38776776.34 0.1610 0.0599

Earth 101456-09-01 15:35 G 38777347.02 38777347.15 38777347.28 0.2686 0.1674

Moon 101456-09-01 17:16 G 38777347.08 38777347.22 38777347.36 0.2689 0.1314 *

Jupiter 101458-12-12 03:21 G 38778178.54 38778178.64 38778178.74 0.0513 0.0318

Jupiter 101459-03-11 06:57 G 38778267.69 38778267.79 38778267.89 0.0511 0.0309

Earth 101460-02-27 14:52 G 38778621.04 38778621.12 38778621.20 0.2647 0.1833

Moon 101460-02-27 15:06 G 38778621.05 38778621.13 38778621.21 0.2654 0.1835 *

Uranus 101461-11-01 17:16 G 38779234.17 38779234.22 38779234.30 0.0141 0.0124

Uranus 101462-01-28 20:52 G 38779322.29 38779322.37 38779322.47 0.0141 0.0102

Uranus 101462-04-27 00:14 G 38779410.41 38779410.51 38779410.62 0.0141 0.0082

Uranus 101462-07-24 03:50 G 38779498.54 38779498.66 38779498.78 0.0142 0.0061

Uranus 101462-10-20 07:11 G 38779586.67 38779586.80 38779586.93 0.0142 0.0040

Uranus 101463-01-16 10:33 G 38779674.81 38779674.94 38779675.07 0.0142 0.0019

Uranus 101463-04-14 13:54 G 38779762.95 38779763.08 38779763.21 0.0142 0.0004

Uranus 101463-07-11 17:16 G 38779851.10 38779851.22 38779851.35 0.0142 0.0023

Uranus 101463-10-07 20:38 G 38779939.24 38779939.36 38779939.49 0.0142 0.0044

Saturn 101464-01-03 19:11 G 38780027.21 38780027.30 38780027.39 0.0293 0.0208

Uranus 101464-01-04 00:14 G 38780027.39 38780027.51 38780027.62 0.0142 0.0064 *

Uranus 101464-04-01 03:35 G 38780115.55 38780115.65 38780115.75 0.0142 0.0085

Saturn 101464-04-01 06:57 G 38780115.66 38780115.79 38780115.91 0.0292 0.0048 *

Uranus 101464-06-28 06:57 G 38780203.71 38780203.79 38780203.88 0.0142 0.0106

Saturn 101464-06-28 18:28 G 38780204.15 38780204.27 38780204.38 0.0291 0.0113

Mars 101464-07-01 05:16 G 38780206.60 38780206.72 38780206.83 0.1614 0.0149

Uranus 101464-09-24 10:18 G 38780291.88 38780291.93 38780291.99 0.0142 0.0127

Saturn 101464-09-25 05:45 G 38780292.70 38780292.74 38780292.79 0.0290 0.0270

Jupiter 101465-04-30 05:59 G 38780509.59 38780509.75 38780509.91 0.0515 0.0275

Venus 101466-04-13 20:23 G 38780858.19 38780858.35 38780858.52 0.3731 0.0118

Earth 101469-09-05 01:11 G 38782098.46 38782098.55 38782098.65 0.2688 0.2185

Moon 101469-09-05 03:06 G 38782098.56 38782098.63 38782098.71 0.2686 0.2363 *

Jupiter 101470-09-30 07:54 G 38782488.79 38782488.83 38782488.87 0.0513 0.0479

Jupiter 101470-12-28 11:45 G 38782577.87 38782577.99 38782578.11 0.0511 0.0151

Earth 101473-03-01 07:54 G 38783371.72 38783371.83 38783371.94 0.2646 0.0346

Moon 101473-03-01 08:38 G 38783371.75 38783371.86 38783371.96 0.2648 0.0208 *

Mars 101473-11-21 16:47 G 38783637.09 38783637.20 38783637.32 0.1618 0.0315

Mars 101475-10-27 18:14 G 38784342.24 38784342.26 38784342.29 0.1603 0.1552

Jupiter 101477-02-16 01:54 G 38784819.39 38784819.58 38784819.76 0.0514 0.0030

Saturn 101480-01-09 11:16 G 38785876.88 38785876.97 38785877.07 0.0270 0.0231

Saturn 101480-04-07 10:04 G 38785965.73 38785965.92 38785966.11 0.0271 0.0038

Saturn 101480-07-05 08:52 G 38786054.72 38786054.87 38786055.04 0.0272 0.0158

Venus 101481-05-05 04:04 G 38786358.61 38786358.67 38786358.73 0.3647 0.2962

Mars 101482-06-14 22:47 G 38786764.30 38786764.45 38786764.59 0.1931 0.0984

Jupiter 101482-10-16 16:04 G 38786888.05 38786888.17 38786888.30 0.0512 0.0015

Mars 101483-04-14 04:18 G 38787067.58 38787067.68 38787067.79 0.1623 0.0779

Mars 101485-03-19 05:59 G 38787772.66 38787772.75 38787772.83 0.1606 0.1105

Earth 101486-03-04 00:57 G 38788122.44 38788122.54 38788122.64 0.2644 0.1149

Moon 101486-03-04 01:40 G 38788122.47 38788122.57 38788122.66 0.2643 0.1197 *

Venus 101486-11-18 19:11 G 38788382.20 38788382.30 38788382.39 0.3644 0.1165

Neptune 101487-08-11 03:35 G 38788647.62 38788647.65 38788647.71 0.0088 0.0082

Neptune 101487-11-07 05:02 G 38788735.65 38788735.71 38788735.78 0.0088 0.0075

Neptune 101488-02-03 06:14 G 38788823.69 38788823.76 38788823.85 0.0088 0.0068

Neptune 101488-05-01 07:40 G 38788911.73 38788911.82 38788911.91 0.0088 0.0061

Neptune 101488-07-28 08:38 G 38788999.77 38788999.86 38788999.98 0.0088 0.0055

Neptune 101488-10-24 10:04 G 38789087.82 38789087.92 38789088.04 0.0088 0.0048

Jupiter 101488-12-04 21:06 G 38789129.22 38789129.38 38789129.55 0.0513 0.0223

Neptune 101489-01-20 11:16 G 38789175.86 38789175.97 38789176.09 0.0088 0.0041

Neptune 101489-04-18 12:42 G 38789263.91 38789264.03 38789264.15 0.0088 0.0034

Neptune 101489-07-15 13:54 G 38789351.96 38789352.08 38789352.21 0.0088 0.0027

Neptune 101489-10-11 15:06 G 38789440.01 38789440.13 38789440.26 0.0088 0.0020

Neptune 101490-01-07 16:18 G 38789528.05 38789528.18 38789528.32 0.0088 0.0014

Neptune 101490-04-05 17:45 G 38789616.10 38789616.24 38789616.37 0.0088 0.0007

Neptune 101490-07-02 18:57 G 38789704.16 38789704.29 38789704.42 0.0088 0.0002

Neptune 101490-09-28 20:09 G 38789792.21 38789792.34 38789792.47 0.0088 0.0007

Neptune 101490-12-25 21:21 G 38789880.26 38789880.39 38789880.52 0.0088 0.0014

Neptune 101491-03-23 22:33 G 38789968.31 38789968.44 38789968.57 0.0088 0.0021

Neptune 101491-06-19 23:45 G 38790056.37 38790056.49 38790056.62 0.0088 0.0028

Neptune 101491-09-16 00:57 G 38790144.42 38790144.54 38790144.67 0.0088 0.0034

Mars 101491-11-04 14:09 G 38790193.93 38790194.09 38790194.25 0.1924 0.0665

Neptune 101491-12-13 02:09 G 38790232.48 38790232.59 38790232.71 0.0088 0.0041

Neptune 101492-03-10 03:35 G 38790320.54 38790320.65 38790320.76 0.0088 0.0048

Venus 101492-06-03 10:04 G 38790405.83 38790405.92 38790406.02 0.3642 0.0650

Neptune 101492-06-06 04:33 G 38790408.60 38790408.69 38790408.80 0.0088 0.0055

Neptune 101492-09-02 05:45 G 38790496.66 38790496.74 38790496.84 0.0088 0.0062

Mars 101492-09-03 15:50 G 38790498.09 38790498.16 38790498.24 0.1627 0.1244

Neptune 101492-11-29 06:57 G 38790584.72 38790584.79 38790584.88 0.0088 0.0069

Neptune 101493-02-25 08:09 G 38790672.79 38790672.84 38790672.92 0.0088 0.0076

Saturn 101493-05-22 22:18 G 38790759.37 38790759.43 38790759.51 0.0293 0.0242

Neptune 101493-05-24 09:50 G 38790760.86 38790760.91 38790760.95 0.0088 0.0082

Saturn 101493-08-19 10:04 G 38790847.80 38790847.92 38790848.05 0.0292 0.0080

Saturn 101493-11-15 21:50 G 38790936.28 38790936.41 38790936.53 0.0291 0.0081

Saturn 101494-02-12 09:06 G 38791024.81 38791024.88 38791024.96 0.0289 0.0238

Jupiter 101494-08-04 20:52 G 38791198.25 38791198.37 38791198.49 0.0513 0.0169

Mars 101494-08-09 17:30 G 38791203.12 38791203.23 38791203.34 0.1610 0.0652

Jupiter 101494-11-02 00:28 G 38791287.47 38791287.52 38791287.58 0.0510 0.0456

Venus 101497-12-18 01:11 G 38792429.47 38792429.55 38792429.62 0.3639 0.2399

Earth 101499-03-06 17:59 G 38792873.25 38792873.25 38792873.25 0.2643 0.2642

Jupiter 101500-09-23 15:50 G 38793439.10 38793439.16 38793439.22 0.0512 0.0484

Jupiter 101500-12-23 06:57 G 38793529.75 38793529.79 38793529.83 0.0515 0.0501

Uranus 101502-08-28 21:21 G 38794143.35 38794143.39 38794143.46 0.0137 0.0131

Earth 101502-09-03 22:33 G 38794149.29 38794149.44 38794149.59 0.2687 0.0955

Moon 101502-09-04 00:14 G 38794149.36 38794149.51 38794149.67 0.2688 0.0801 *

Uranus 101502-11-25 05:16 G 38794231.60 38794231.72 38794231.85 0.0137 0.0103

Uranus 101503-02-21 13:11 G 38794319.89 38794320.05 38794320.21 0.0137 0.0075

Uranus 101503-05-20 20:38 G 38794408.19 38794408.36 38794408.55 0.0136 0.0048

Uranus 101503-08-17 04:33 G 38794496.50 38794496.69 38794496.89 0.0136 0.0019

Uranus 101503-11-13 12:14 G 38794584.82 38794585.01 38794585.21 0.0136 0.0009

Mars 101504-01-01 05:02 G 38794633.60 38794633.71 38794633.83 0.1614 0.0208

Uranus 101504-02-09 19:54 G 38794673.15 38794673.33 38794673.53 0.0136 0.0037

Uranus 101504-05-08 03:35 G 38794761.49 38794761.65 38794761.83 0.0136 0.0064

Uranus 101504-08-04 11:16 G 38794849.84 38794849.97 38794850.12 0.0136 0.0092

Uranus 101504-10-31 19:11 G 38794938.21 38794938.30 38794938.39 0.0136 0.0119

Earth 101506-02-28 19:40 G 38795423.23 38795423.32 38795423.41 0.2647 0.1528

Moon 101506-02-28 19:54 G 38795423.24 38795423.33 38795423.42 0.2653 0.1481 *

Jupiter 101506-05-25 01:40 G 38795508.47 38795508.57 38795508.66 0.0513 0.0326

Jupiter 101506-08-22 05:16 G 38795597.62 38795597.72 38795597.82 0.0511 0.0303

Saturn 101509-05-29 11:59 G 38796609.00 38796609.00 38796609.01 0.0270 0.0270

Saturn 101509-08-26 11:02 G 38796697.77 38796697.96 38796698.14 0.0271 0.0077

Saturn 101509-11-23 09:50 G 38796786.74 38796786.91 38796787.08 0.0272 0.0119

Jupiter 101512-10-11 02:23 G 38797839.44 38797839.60 38797839.76 0.0514 0.0251

Mars 101513-05-23 16:47 G 38798064.08 38798064.20 38798064.31 0.1618 0.0262

Pluto 101518-02-09 16:18 G 38799787.13 38799787.18 38799787.28 0.0060 0.0055

Jupiter 101518-03-13 05:59 G 38799818.72 38799818.75 38799818.79 0.0514 0.0490

Pluto 101518-05-08 17:45 G 38799875.13 38799875.24 38799875.39 0.0060 0.0045

Jupiter 101518-06-10 09:50 G 38799907.79 38799907.91 38799908.03 0.0511 0.0141

Pluto 101518-08-04 18:57 G 38799963.16 38799963.29 38799963.47 0.0060 0.0035

Pluto 101518-10-31 20:23 G 38800051.19 38800051.35 38800051.54 0.0060 0.0025

Pluto 101519-01-27 21:50 G 38800139.23 38800139.41 38800139.60 0.0060 0.0015

Earth 101519-03-03 12:42 G 38800173.92 38800174.03 38800174.14 0.2645 0.0076

Moon 101519-03-03 13:26 G 38800173.95 38800174.06 38800174.16 0.2647 0.0123 *

Pluto 101519-04-25 23:02 G 38800227.28 38800227.46 38800227.66 0.0060 0.0006

Pluto 101519-07-23 00:28 G 38800315.33 38800315.52 38800315.71 0.0060 0.0005

Pluto 101519-10-19 01:40 G 38800403.39 38800403.57 38800403.76 0.0060 0.0015

Pluto 101520-01-15 02:52 G 38800491.45 38800491.62 38800491.80 0.0060 0.0026

Pluto 101520-04-12 04:04 G 38800579.53 38800579.67 38800579.83 0.0061 0.0036

Pluto 101520-07-09 05:16 G 38800667.61 38800667.72 38800667.86 0.0061 0.0046

Pluto 101520-10-05 06:42 G 38800755.72 38800755.78 38800755.86 0.0061 0.0056

Mars 101521-12-14 23:16 G 38801191.33 38801191.47 38801191.61 0.1931 0.1097

Saturn 101522-10-11 01:40 G 38801491.54 38801491.57 38801491.62 0.0293 0.0277

Mars 101522-10-14 04:18 G 38801494.58 38801494.68 38801494.79 0.1623 0.0723

Venus 101522-11-19 23:45 G 38801531.36 38801531.49 38801531.62 0.3733 0.2327

Saturn 101523-01-07 13:26 G 38801579.94 38801580.06 38801580.18 0.0292 0.0115

Saturn 101523-04-06 00:57 G 38801668.42 38801668.54 38801668.67 0.0291 0.0047

Saturn 101523-07-03 12:28 G 38801756.93 38801757.02 38801757.11 0.0290 0.0204

Jupiter 101524-07-29 22:18 G 38802149.24 38802149.43 38802149.62 0.0514 0.0009

Mars 101524-09-18 05:45 G 38802199.66 38802199.74 38802199.82 0.1606 0.1160

Jupiter 101530-03-29 14:23 G 38804217.98 38804218.10 38804218.23 0.0512 0.0023

Mars 101531-05-06 15:06 G 38804620.97 38804621.13 38804621.29 0.1925 0.0531

Earth 101532-03-05 05:45 G 38804924.65 38804924.74 38804924.83 0.2644 0.1456

Moon 101532-03-05 06:14 G 38804924.67 38804924.76 38804924.84 0.2641 0.1599 *

Mars 101532-03-05 15:50 G 38804925.09 38804925.16 38804925.24 0.1627 0.1189

Mars 101534-02-08 17:30 G 38805630.13 38805630.23 38805630.34 0.1610 0.0710

Jupiter 101536-05-17 18:14 G 38806459.09 38806459.26 38806459.43 0.0514 0.0236

Venus 101537-12-11 01:26 G 38807031.48 38807031.56 38807031.64 0.3646 0.2336

Saturn 101539-01-13 10:18 G 38807429.76 38807429.93 38807430.10 0.0270 0.0127

Saturn 101539-04-12 09:06 G 38807518.70 38807518.88 38807519.07 0.0271 0.0068

Saturn 101539-07-10 07:54 G 38807607.80 38807607.83 38807607.88 0.0272 0.0265

Jupiter 101542-01-15 18:57 G 38808528.17 38808528.29 38808528.41 0.0512 0.0182

Jupiter 101542-04-14 22:18 G 38808617.38 38808617.43 38808617.50 0.0510 0.0443

Venus 101543-06-26 16:33 G 38809055.09 38809055.19 38809055.29 0.3644 0.0549

Mars 101543-07-02 05:02 G 38809060.60 38809060.71 38809060.83 0.1614 0.0257

Uranus 101545-08-26 22:04 G 38809847.38 38809847.42 38809847.45 0.0141 0.0136

Uranus 101545-11-23 01:11 G 38809935.48 38809935.55 38809935.63 0.0141 0.0115

Uranus 101546-02-19 04:47 G 38810023.60 38810023.70 38810023.80 0.0141 0.0095

Uranus 101546-05-18 08:09 G 38810111.73 38810111.84 38810111.95 0.0142 0.0074

Uranus 101546-08-14 11:30 G 38810199.86 38810199.98 38810200.10 0.0142 0.0053

Uranus 101546-11-10 14:52 G 38810288.00 38810288.12 38810288.25 0.0142 0.0033

Uranus 101547-02-06 18:28 G 38810376.14 38810376.27 38810376.40 0.0142 0.0012

Uranus 101547-05-05 21:50 G 38810464.28 38810464.41 38810464.54 0.0142 0.0010

Uranus 101547-08-02 01:11 G 38810552.42 38810552.55 38810552.68 0.0142 0.0030

Uranus 101547-10-29 04:33 G 38810640.57 38810640.69 38810640.81 0.0142 0.0051

Uranus 101548-01-25 07:54 G 38810728.72 38810728.83 38810728.95 0.0142 0.0072

Jupiter 101548-03-05 13:40 G 38810769.02 38810769.07 38810769.14 0.0513 0.0483

Uranus 101548-04-22 11:16 G 38810816.88 38810816.97 38810817.07 0.0142 0.0093

Jupiter 101548-06-04 04:47 G 38810859.67 38810859.70 38810859.74 0.0515 0.0504

Uranus 101548-07-19 14:38 G 38810905.04 38810905.11 38810905.19 0.0142 0.0114

Earth 101548-09-04 05:30 G 38810951.57 38810951.73 38810951.90 0.2687 0.0225

Moon 101548-09-04 07:26 G 38810951.65 38810951.81 38810951.97 0.2687 0.0166 *

Uranus 101548-10-15 17:59 G 38810993.22 38810993.25 38810993.30 0.0142 0.0135

Venus 101549-01-09 07:26 G 38811078.72 38811078.81 38811078.91 0.3641 0.1250

Earth 101552-03-01 00:14 G 38812225.42 38812225.51 38812225.61 0.2646 0.1230

Moon 101552-03-01 00:42 G 38812225.43 38812225.53 38812225.63 0.2652 0.1150 *

Saturn 101552-05-26 16:33 G 38812312.08 38812312.19 38812312.30 0.0292 0.0151

Saturn 101552-08-23 04:04 G 38812400.54 38812400.67 38812400.80 0.0291 0.0013

Saturn 101552-11-19 15:35 G 38812489.05 38812489.15 38812489.26 0.0290 0.0169

Mars 101552-11-21 16:47 G 38812491.08 38812491.20 38812491.31 0.1618 0.0212

Jupiter 101553-11-03 23:30 G 38812838.39 38812838.48 38812838.57 0.0513 0.0340

Jupiter 101554-02-01 03:21 G 38812927.53 38812927.64 38812927.74 0.0511 0.0289

Venus 101554-07-25 22:33 G 38813102.38 38813102.44 38813102.49 0.3639 0.3011

Jupiter 101560-03-22 23:30 G 38815169.31 38815169.48 38815169.64 0.0514 0.0239

Mars 101561-06-15 00:14 G 38815618.39 38815618.51 38815618.64 0.1932 0.1242

Mars 101562-04-14 04:18 G 38815921.58 38815921.68 38815921.79 0.1622 0.0670

Mars 101564-03-19 05:45 G 38816626.67 38816626.74 38816626.82 0.1606 0.1214

Earth 101565-03-03 17:16 G 38816976.12 38816976.22 38816976.33 0.2645 0.0276

Moon 101565-03-03 17:59 G 38816976.14 38816976.25 38816976.36 0.2647 0.0404 *

Jupiter 101565-08-23 04:04 G 38817148.65 38817148.67 38817148.70 0.0514 0.0499

Jupiter 101565-11-20 07:54 G 38817237.71 38817237.83 38817237.96 0.0512 0.0136

Saturn 101568-06-01 10:33 G 38818161.80 38818161.94 38818162.09 0.0270 0.0169

Saturn 101568-08-29 09:21 G 38818250.70 38818250.89 38818251.09 0.0271 0.0026

Saturn 101568-11-26 08:09 G 38818339.74 38818339.84 38818339.96 0.0272 0.0222

Mars 101570-11-04 16:04 G 38819048.01 38819048.17 38819048.34 0.1924 0.0396

Mars 101571-09-04 15:50 G 38819352.08 38819352.16 38819352.24 0.1627 0.1136

Neptune 101571-10-14 19:11 G 38819392.24 38819392.30 38819392.42 0.0090 0.0080

Jupiter 101572-01-09 18:57 G 38819479.11 38819479.29 38819479.48 0.0514 0.0013

Neptune 101572-01-10 23:16 G 38819480.36 38819480.47 38819480.61 0.0090 0.0069

Neptune 101572-04-08 03:06 G 38819568.50 38819568.63 38819568.80 0.0090 0.0058

Neptune 101572-07-05 06:57 G 38819656.64 38819656.79 38819656.97 0.0090 0.0047

Neptune 101572-10-01 11:02 G 38819744.78 38819744.96 38819745.15 0.0090 0.0036

Neptune 101572-12-28 14:52 G 38819832.94 38819833.12 38819833.31 0.0090 0.0025

Neptune 101573-03-26 18:42 G 38819921.09 38819921.28 38819921.48 0.0090 0.0014

Neptune 101573-06-22 22:33 G 38820009.25   38820009.44   38820009.64 0.0090 0.0004

Mars   101573-08-09 17:30 G 38820057.13   38820057.23   38820057.33 0.1610 0.0763

Neptune 101573-09-19 02:23 G 38820097.41   38820097.60   38820097.80 0.0090 0.0008

Venus   101573-12-10 13:40 G 38820179.97   38820180.07   38820180.16 0.3729 0.3019

Neptune 101573-12-16 06:14 G 38820185.57   38820185.76   38820185.96 0.0090 0.0019

Neptune 101574-03-14 10:04 G 38820273.74   38820273.92   38820274.11 0.0090 0.0030

Neptune 101574-06-10 13:54 G 38820361.91   38820362.08   38820362.26 0.0090 0.0041

Neptune 101574-09-06 17:30 G 38820450.08   38820450.23   38820450.40 0.0090 0.0052

Neptune 101574-12-03 21:21 G 38820538.26   38820538.39   38820538.54 0.0090 0.0063

Neptune 101575-03-02 00:57 G 38820626.45   38820626.54   38820626.68 0.0090 0.0074

Neptune 101575-05-29 04:47 G 38820714.66   38820714.70   38820714.79 0.0090 0.0085

Jupiter 101577-09-08 12:28 G 38821547.90   38821548.02   38821548.15 0.0512 0.0031

Earth   101578-03-06 10:18 G 38821726.85   38821726.93   38821727.01 0.2644 0.1763

Moon   101578-03-06 10:47 G 38821726.88   38821726.95   38821727.03 0.2640 0.1804 *

Mars   101581-01-25 03:35 G 38822782.63   38822782.65   38822782.66 0.1632 0.1605

Saturn   101581-10-13 19:54 G 38823044.23   38823044.33   38823044.43 0.0293 0.0185

Saturn   101582-01-10 07:26 G 38823132.68   38823132.81   38823132.94 0.0292 0.0024

Saturn   101582-04-08 18:57 G 38823221.18   38823221.29   38823221.41 0.0291 0.0136

Mars   101582-12-31 05:02 G 38823487.60   38823487.71   38823487.83 0.1614 0.0307

Jupiter 101583-10-28 14:38 G 38823788.96   38823789.11   38823789.28 0.0514 0.0256

Moon   101585-02-27 11:59 G 38824276.95   38824277.00   38824277.04 0.2654 0.2393

Earth   101585-02-27 11:59 G 38824276.96   38824277.00   38824277.04 0.2648 0.2412 *

Uranus   101586-09-18 05:59 G 38824844.67   38824844.75   38824844.86 0.0137 0.0119

Uranus   101586-12-15 13:54 G 38824932.94   38824933.08   38824933.23 0.0137 0.0091

Uranus   101587-03-13 21:50 G 38825021.24   38825021.41   38825021.58 0.0137 0.0063

Uranus   101587-06-10 05:30 G 38825109.54   38825109.73   38825109.92 0.0136 0.0035

Uranus   101587-09-06 13:11 G 38825197.86   38825198.05   38825198.25 0.0136 0.0008

Uranus   101587-12-03 20:52 G 38825286.18   38825286.37   38825286.57 0.0136 0.0021

Uranus   101588-03-01 04:33 G 38825374.51   38825374.69   38825374.88 0.0136 0.0049

Uranus   101588-05-28 12:14 G 38825462.86   38825463.01   38825463.18 0.0136 0.0076

Uranus 101588-08-24 20:09 G 38825551.21 38825551.34 38825551.46 0.0136 0.0104

Uranus 101588-11-21 03:35 G 38825639.61 38825639.65 38825639.71 0.0136 0.0131

Venus 101589-01-01 07:40 G 38825680.79 38825680.82 38825680.84 0.3648 0.3516

Jupiter 101589-06-27 17:16 G 38825858.10 38825858.22 38825858.34 0.0512 0.0183

Jupiter 101589-09-24 20:52 G 38825947.31 38825947.37 38825947.43 0.0510 0.0440

Mars 101592-05-22 16:47 G 38826918.08 38826918.20 38826918.31 0.1618 0.0154

Venus 101594-07-17 22:47 G 38827704.36 38827704.45 38827704.54 0.3646 0.1709

Earth 101594-09-05 12:28 G 38827753.86 38827754.02 38827754.18 0.2687 0.0507

Moon 101594-09-05 14:38 G 38827753.95 38827754.11 38827754.26 0.2688 0.0715 *

Jupiter 101595-08-16 10:47 G 38828098.91 38828098.95 38828099.01 0.0513 0.0494

Jupiter 101595-11-15 02:09 G 38828189.54 38828189.59 38828189.64 0.0515 0.0493

Saturn 101597-10-19 09:21 G 38828893.79 38828893.89 38828894.01 0.0270 0.0222

Saturn 101598-01-16 08:23 G 38828982.66 38828982.85 38828983.04 0.0271 0.0028

Earth 101598-03-02 05:02 G 38829027.61 38829027.71 38829027.81 0.2646 0.0921

Moon 101598-03-02 05:30 G 38829027.63 38829027.73 38829027.83 0.2651 0.0878 *

Saturn 101598-04-15 07:11 G 38829071.65 38829071.80 38829071.96 0.0272 0.0167

Venus 101600-01-31 13:40 G 38829727.97 38829728.07 38829728.18 0.3643 0.0170

Mars 101600-12-14 01:26 G 38830045.45 38830045.56 38830045.68 0.1932 0.1394

Jupiter 101601-04-15 21:35 G 38830168.31 38830168.40 38830168.50 0.0513 0.0348

Jupiter 101601-07-14 01:26 G 38830257.45 38830257.56 38830257.66 0.0511 0.0280

Mars 101601-10-13 04:18 G 38830348.57 38830348.68 38830348.79 0.1622 0.0616

Mars 101603-09-18 05:45 G 38831053.67 38831053.74 38831053.81 0.1606 0.1273

Venus 101605-08-16 04:47 G 38831751.61 38831751.70 38831751.79 0.3641 0.1867

Jupiter 101607-09-02 21:35 G 38832499.24 38832499.40 38832499.57 0.0515 0.0244

Mars 101610-05-05 16:47 G 38833475.04 38833475.20 38833475.37 0.1925 0.0272

Venus 101611-03-01 19:40 G 38833775.32 38833775.32 38833775.33 0.3638 0.3623

Saturn 101611-03-02 22:33 G 38833776.36 38833776.44 38833776.52 0.0293 0.0226

Earth 101611-03-04 22:04 G 38833778.31 38833778.42 38833778.52 0.2645 0.0573

Moon 101611-03-04 22:47 G 38833778.34 38833778.45 38833778.55 0.2646 0.0678 *

Mars 101611-03-05 15:50 G 38833779.07 38833779.16 38833779.24 0.1627 0.1084

Saturn 101611-05-30 10:04 G 38833864.80 38833864.92 38833865.05 0.0292 0.0065

Saturn 101611-08-26 21:50 G 38833953.29 38833953.41 38833953.53 0.0291 0.0096

Saturn 101611-11-23 09:06 G 38834041.83 38834041.88 38834041.95 0.0290 0.0254

Pluto 101612-11-13 01:40 G 38834397.50 38834397.57 38834397.66 0.0084 0.0067

Jupiter 101613-02-02 02:23 G 38834478.58 38834478.60 38834478.61 0.0514 0.0508

Mars 101613-02-07 17:30 G 38834484.13 38834484.23 38834484.33 0.1610 0.0819

Pluto 101613-02-09 02:52 G 38834485.52 38834485.62 38834485.74 0.0084 0.0048

Jupiter 101613-05-02 06:14 G 38834567.63 38834567.76 38834567.88 0.0512 0.0125

Pluto 101613-05-08 04:04 G 38834573.55 38834573.67 38834573.81 0.0084 0.0029

Pluto 101613-08-04 05:30 G 38834661.60 38834661.73 38834661.86 0.0083 0.0009

Pluto 101613-10-31 06:42 G 38834749.65 38834749.78 38834749.92 0.0083 0.0010

Pluto 101614-01-27 07:54 G 38834837.71 38834837.83 38834837.96 0.0083 0.0029

Pluto 101614-04-25 09:06 G 38834925.77 38834925.88 38834925.99 0.0083 0.0048

Pluto 101614-07-22 10:18 G 38835013.85 38835013.93 38835014.01 0.0083 0.0066

Jupiter 101619-06-21 16:33 G 38836809.01 38836809.19 38836809.38 0.0514 0.0017

Mars 101619-09-25 08:38 G 38836904.84 38836904.86 38836904.89 0.1917 0.1891

Mars 101620-07-26 03:21 G 38837209.61 38837209.64 38837209.67 0.1632 0.1554

Mars 101622-07-01 05:02 G 38837914.60 38837914.71 38837914.82 0.1614 0.0362

Earth 101624-03-06 15:06 G 38838529.06 38838529.13 38838529.20 0.2644 0.2067

Moon 101624-03-06 15:35 G 38838529.09 38838529.15 38838529.21 0.2639 0.2181 *

Jupiter 101625-02-18 11:02 G 38838877.83 38838877.96 38838878.08 0.0512 0.0034

Saturn 101627-03-08 09:21 G 38839625.88 38839625.89 38839625.92 0.0270 0.0267

Saturn 101627-06-05 08:09 G 38839714.66 38839714.84 38839715.03 0.0271 0.0075

Saturn 101627-09-02 07:11 G 38839803.63 38839803.80 38839803.97 0.0272 0.0121

Earth 101627-09-03 09:50 G 38839804.88 38839804.91 38839804.94 0.2686 0.2633

Moon 101627-09-03 11:30 G 38839804.90 38839804.98 38839805.05 0.2689 0.2370 *

Uranus 101629-09-16 05:16 G 38840548.68 38840548.72 38840548.77 0.0141 0.0130

Uranus 101629-12-13 08:38 G 38840636.78 38840636.86 38840636.95 0.0141 0.0110

Uranus 101630-03-11 11:59 G 38840724.91 38840725.00 38840725.11 0.0141 0.0089

Uranus 101630-06-07 15:21 G 38840813.03 38840813.14 38840813.26 0.0142 0.0069

Venus 101630-07-17 16:47 G 38840853.04 38840853.20 38840853.36 0.3730 0.0634

Uranus 101630-09-03 18:57 G 38840901.17 38840901.29 38840901.41 0.0142 0.0048

Uranus 101630-11-30 22:18 G 38840989.30 38840989.43 38840989.56 0.0142 0.0027

Uranus 101631-02-27 01:40 G 38841077.44 38841077.57 38841077.70 0.0142 0.0007

Moon 101631-02-28 16:47 G 38841079.14 38841079.20 38841079.26 0.2654 0.2164

Earth 101631-02-28 16:47 G 38841079.14 38841079.20 38841079.26 0.2647 0.2102 *

Jupiter 101631-04-09 12:14 G 38841118.85 38841119.01 38841119.17 0.0513 0.0261

Uranus 101631-05-26 05:02 G 38841165.58 38841165.71 38841165.84 0.0142 0.0015

Uranus 101631-08-22 08:23 G 38841253.73 38841253.85 38841253.98 0.0142 0.0036

Uranus 101631-11-18 11:59 G 38841341.88 38841342.00 38841342.12 0.0142 0.0056

Mars 101631-11-21 16:33 G 38841345.08 38841345.19 38841345.31 0.1618 0.0113

Uranus 101632-02-14 15:21 G 38841430.03 38841430.14 38841430.25 0.0142 0.0077

Uranus 101632-05-12 18:42 G 38841518.19 38841518.28 38841518.37 0.0142 0.0098

Uranus 101632-08-08 22:04 G 38841606.35 38841606.42 38841606.49 0.0142 0.0119

Uranus 101632-11-05 01:26 G 38841694.55 38841694.56 38841694.59 0.0142 0.0140

Jupiter 101636-12-07 15:35 G 38843188.03 38843188.15 38843188.27 0.0513 0.0191

Jupiter 101637-03-06 19:11 G 38843277.23 38843277.30 38843277.36 0.0510 0.0433

Mars 101640-06-14 01:54 G 38844472.48 38844472.58 38844472.68 0.1932 0.1497

Saturn 101640-07-20 01:26 G 38844508.51 38844508.56 38844508.62 0.0293 0.0265

Earth 101640-09-05 19:40 G 38844556.17 38844556.32 38844556.46 0.2687 0.1241

Moon 101640-09-05 21:21 G 38844556.27 38844556.39 38844556.53 0.2688 0.1603 *

Saturn 101640-10-16 13:26 G 38844596.93 38844597.06 38844597.18 0.0292 0.0102

Saturn 101641-01-13 00:57 G 38844685.41 38844685.54 38844685.66 0.0291 0.0060

Saturn 101641-04-11 12:14 G 38844773.93 38844774.01 38844774.10 0.0290 0.0218

Mars 101641-04-13 04:18 G 38844775.57 38844775.68 38844775.79 0.1622 0.0562

Jupiter 101643-01-26 07:54 G 38845428.81 38845428.83 38845428.85 0.0513 0.0508

Mars 101643-03-19 05:45 G 38845480.68 38845480.74 38845480.80 0.1606 0.1325

Jupiter 101643-04-26 23:02 G 38845519.40 38845519.46 38845519.53 0.0515 0.0479

Earth 101644-03-02 09:50 G 38845829.80 38845829.91 38845830.01 0.2646 0.0619

Moon 101644-03-02 10:18 G 38845829.82 38845829.93 38845830.03 0.2651 0.0491 *

Venus 101645-08-08 05:02 G 38846353.65 38846353.71 38846353.77 0.3647 0.2879

Jupiter 101648-09-25 20:23 G 38847498.26 38847498.35 38847498.44 0.0513 0.0346

Jupiter 101648-12-23 23:59 G 38847587.40 38847587.50 38847587.61 0.0511 0.0281

Mars 101649-11-03 17:59 G 38847902.08 38847902.25 38847902.42 0.1925 0.0123

Mars 101650-09-03 15:50 G 38848206.07 38848206.16 38848206.25 0.1627 0.1028

Venus 101651-02-21 20:09 G 38848377.24 38848377.34 38848377.43 0.3645 0.1081

Neptune 101652-02-10 01:54 G 38848730.57 38848730.58 38848730.59 0.0088 0.0087

Neptune 101652-05-08 02:52 G 38848818.58 38848818.62 38848818.68 0.0088 0.0081

Neptune 101652-08-04 04:18 G 38848906.62 38848906.68 38848906.76 0.0088 0.0074

Mars 101652-08-08 17:30 G 38848911.13 38848911.23 38848911.32 0.1609 0.0878

Neptune 101652-10-31 05:30 G 38848994.66 38848994.73 38848994.82 0.0088 0.0067

Neptune 101653-01-27 06:57 G 38849082.70 38849082.79 38849082.89 0.0088 0.0060

Neptune 101653-04-25 08:09 G 38849170.74 38849170.84 38849170.95 0.0088 0.0053

Neptune 101653-07-22 09:06 G 38849258.78 38849258.88 38849259.01 0.0088 0.0047

Neptune 101653-10-18 10:33 G 38849346.83 38849346.94 38849347.06 0.0088 0.0040

Neptune 101654-01-14 11:45 G 38849434.88 38849434.99 38849435.12 0.0088 0.0033

Neptune 101654-04-12 13:11 G 38849522.93 38849523.05 38849523.18 0.0088 0.0026

Neptune 101654-07-09 14:23 G 38849610.97 38849611.10 38849611.23 0.0088 0.0019

Neptune 101654-10-05 15:35 G 38849699.02 38849699.15 38849699.28 0.0088 0.0012

Neptune 101655-01-01 17:02 G 38849787.07 38849787.21 38849787.34 0.0088 0.0006

Jupiter 101655-02-12 19:11 G 38849829.13 38849829.30 38849829.47 0.0515 0.0237

Neptune 101655-03-30 18:14 G 38849875.13 38849875.26 38849875.39 0.0088 0.0002

Neptune 101655-06-26 19:26 G 38849963.18 38849963.31 38849963.44 0.0088 0.0008

Neptune 101655-09-22 20:38 G 38850051.23 38850051.36 38850051.49 0.0088 0.0015

Neptune 101655-12-19 21:50 G 38850139.28 38850139.41 38850139.54 0.0088 0.0022

Neptune 101656-03-16 23:02 G 38850227.34 38850227.46 38850227.59 0.0088 0.0029

Neptune 101656-06-13 00:14 G 38850315.39 38850315.51 38850315.63 0.0088 0.0036

Venus 101656-09-06 11:02 G 38850400.86 38850400.96 38850401.06 0.3642 0.0725

Neptune 101656-09-09 01:26 G 38850403.45 38850403.56 38850403.68 0.0088 0.0042

Saturn 101656-10-22 06:28 G 38850446.61 38850446.77 38850446.94 0.0270 0.0132

Neptune 101656-12-06 02:52 G 38850491.51   38850491.62   38850491.73 0.0088 0.0049

Saturn   101657-01-19 05:16 G 38850535.54   38850535.72   38850535.91 0.0271 0.0062

Neptune 101657-03-04 04:04 G 38850579.57   38850579.67   38850579.77 0.0088 0.0056

Earth   101657-03-05 02:52 G 38850580.51   38850580.62   38850580.72 0.2645 0.0883

Moon   101657-03-05 03:21 G 38850580.54   38850580.64   38850580.74 0.2644 0.0969 *

Saturn   101657-04-18 04:18 G 38850624.62   38850624.68   38850624.74 0.0272 0.0258

Neptune 101657-05-31 05:02 G 38850667.63   38850667.71   38850667.81 0.0088 0.0063

Neptune 101657-08-27 06:14 G 38850755.69   38850755.76   38850755.85 0.0088 0.0070

Neptune 101657-11-23 07:26 G 38850843.76   38850843.81   38850843.89 0.0088 0.0077

Neptune 101658-02-19 08:52 G 38850931.84   38850931.87   38850931.91 0.0088 0.0083

Mars   101659-03-26 09:35 G 38851331.84   38851331.90   38851331.97 0.1917 0.1761

Mars   101660-01-25 03:21 G 38851636.60   38851636.64   38851636.68 0.1632 0.1502

Jupiter 101660-07-15 00:42 G 38851808.52   38851808.53   38851808.54 0.0514 0.0510

Jupiter 101660-10-12 04:33 G 38851897.57   38851897.69   38851897.81 0.0511 0.0121

Mars   101661-12-30 05:02 G 38852341.60   38852341.71   38852341.82 0.1613 0.0418

Venus   101662-03-23 02:09 G 38852424.52   38852424.59   38852424.66 0.3640 0.2482

Jupiter 101666-12-01 14:52 G 38854138.94   38854139.12   38854139.31 0.0514 0.0015

Saturn   101670-03-05 15:35 G 38855329.04   38855329.15   38855329.26 0.0293 0.0148

Earth   101670-03-07 19:54 G 38855331.28   38855331.33   38855331.37 0.2644 0.2373

Moon   101670-03-07 20:23 G 38855331.31   38855331.35   38855331.39 0.2639 0.2428 *

Saturn   101670-06-02 03:06 G 38855417.51   38855417.63   38855417.76 0.0292 0.0017

Uranus   101670-07-12 06:28 G 38855457.77   38855457.77   38855457.80 0.0137 0.0137

Saturn   101670-08-29 14:52 G 38855506.01   38855506.12   38855506.22 0.0290 0.0173

Uranus   101670-10-08 14:09 G 38855545.99   38855546.09   38855546.22 0.0137 0.0109

Uranus   101671-01-04 22:04 G 38855634.27   38855634.42   38855634.58 0.0137 0.0081

Uranus   101671-04-03 05:59 G 38855722.57   38855722.75   38855722.93 0.0137 0.0053

Mars   101671-05-22 16:33 G 38855772.08   38855772.19   38855772.31 0.1618 0.0049

Uranus   101671-06-30 13:40 G 38855810.88   38855811.07   38855811.26 0.0137 0.0025

Uranus   101671-09-26 21:21 G 38855899.20   38855899.39   38855899.59 0.0137 0.0003

Uranus   101671-12-24 05:02 G 38855987.52   38855987.71   38855987.90 0.0136 0.0031

Uranus 101672-03-21 12:42 G 38856075.86 38856076.03 38856076.21 0.0136 0.0059

Uranus 101672-06-17 20:09 G 38856164.20 38856164.34 38856164.51 0.0136 0.0087

Jupiter 101672-07-31 09:21 G 38856207.76 38856207.89 38856208.01 0.0512 0.0037

Uranus 101672-09-14 04:18 G 38856252.57 38856252.68 38856252.78 0.0136 0.0114

Earth 101673-09-03 16:47 G 38856607.09 38856607.20 38856607.31 0.2686 0.1905

Moon 101673-09-03 18:28 G 38856607.15 38856607.27 38856607.40 0.2689 0.1712 *

Moon 101677-02-28 21:35 G 38857881.32 38857881.40 38857881.48 0.2653 0.1727

Earth 101677-02-28 21:35 G 38857881.32 38857881.40 38857881.47 0.2647 0.1800 *

Jupiter 101678-09-19 10:18 G 38858448.77 38858448.93 38858449.09 0.0513 0.0259

Mars 101679-12-14 03:06 G 38858899.55 38858899.63 38858899.72 0.1932 0.1655

Mars 101680-10-12 04:04 G 38859202.57 38859202.67 38859202.79 0.1622 0.0513

Mars 101682-09-17 05:45 G 38859907.68 38859907.74 38859907.80 0.1606 0.1381

Jupiter 101684-05-19 13:54 G 38860517.97 38860518.08 38860518.20 0.0513 0.0193

Jupiter 101684-08-16 17:30 G 38860607.17 38860607.23 38860607.30 0.0511 0.0434

Saturn 101686-03-11 05:45 G 38861178.61 38861178.74 38861178.89 0.0270 0.0183

Saturn 101686-06-08 04:33 G 38861267.50 38861267.69 38861267.89 0.0271 0.0012

Saturn 101686-09-05 03:35 G 38861356.53 38861356.65 38861356.77 0.0272 0.0206

Earth 101686-09-07 02:38 G 38861358.50 38861358.61 38861358.72 0.2688 0.1967

Moon 101686-09-07 04:18 G 38861358.59 38861358.68 38861358.78 0.2688 0.2204 *

Venus 101687-02-21 19:54 G 38861526.19 38861526.33 38861526.47 0.3731 0.1768

Mars 101689-05-04 18:42 G 38862329.11 38862329.28 38862329.45 0.1925 0.0020

Earth 101690-03-03 14:23 G 38862632.00 38862632.10 38862632.21 0.2646 0.0315

Moon 101690-03-03 14:52 G 38862632.02 38862632.12 38862632.23 0.2651 0.0294 *

Mars 101690-03-04 15:35 G 38862633.06 38862633.15 38862633.25 0.1627 0.0979

Jupiter 101690-07-08 05:59 G 38862758.72 38862758.75 38862758.79 0.0513 0.0503

Jupiter 101690-10-06 20:52 G 38862849.31 38862849.37 38862849.44 0.0515 0.0481

Mars 101692-02-07 17:16 G 38863338.13 38863338.22 38863338.32 0.1610 0.0929

Jupiter 101696-03-07 18:42 G 38864828.19 38864828.28 38864828.37 0.0513 0.0349

Jupiter 101696-06-04 22:18 G 38864917.33 38864917.43 38864917.54 0.0511 0.0279

Mars 101698-09-24 10:18 G 38865758.85 38865758.93 38865759.02 0.1918 0.1641

Saturn 101699-07-23 18:28 G 38866061.17 38866061.27 38866061.37 0.0293 0.0189

Mars 101699-07-26 03:21 G 38866063.59 38866063.64 38866063.69 0.1631 0.1445

Saturn 101699-10-20 05:59 G 38866149.63 38866149.75 38866149.88 0.0292 0.0028

Saturn 101700-01-16 17:30 G 38866238.12 38866238.23 38866238.35 0.0291 0.0134

Mars 101701-07-01 05:02 G 38866768.60 38866768.71 38866768.82 0.1614 0.0475

Venus 101702-03-16 02:23 G 38867026.52 38867026.60 38867026.68 0.3647 0.2246

Jupiter 101702-07-26 16:33 G 38867159.02 38867159.19 38867159.35 0.0515 0.0229

Earth 101703-03-07 07:26 G 38867382.72 38867382.81 38867382.91 0.2645 0.1187

Moon 101703-03-07 08:09 G 38867382.75 38867382.84 38867382.93 0.2643 0.1329 *

Venus 101707-09-29 17:16 G 38869050.12 38869050.22 38869050.33 0.3644 0.0475

Jupiter 101707-12-26 23:30 G 38869138.46 38869138.48 38869138.51 0.0513 0.0503

Jupiter 101708-03-25 03:21 G 38869227.52 38869227.64 38869227.77 0.0511 0.0128

Mars 101710-11-21 16:33 G 38870199.08 38870199.19 38870199.31 0.1618 0.0036

Venus 101713-04-14 08:23 G 38871073.76 38871073.85 38871073.95 0.3642 0.1334

Uranus 101713-10-07 12:42 G 38871249.97 38871250.03 38871250.09 0.0141 0.0125

Uranus 101714-01-03 16:04 G 38871338.09 38871338.17 38871338.26 0.0141 0.0104

Uranus 101714-04-01 19:26 G 38871426.21 38871426.31 38871426.42 0.0141 0.0084

Jupiter 101714-05-14 12:42 G 38871468.85 38871469.03 38871469.22 0.0514 0.0014

Uranus 101714-06-28 22:47 G 38871514.34 38871514.45 38871514.57 0.0141 0.0063

Uranus 101714-09-25 02:09 G 38871602.47 38871602.59 38871602.72 0.0142 0.0043

Uranus 101714-12-22 05:45 G 38871690.61 38871690.74 38871690.87 0.0142 0.0022

Uranus 101715-03-20 09:06 G 38871778.75 38871778.88 38871779.01 0.0142 0.0001

Uranus 101715-06-16 12:28 G 38871866.89 38871867.02 38871867.15 0.0142 0.0020

Saturn 101715-07-30 03:50 G 38871910.58 38871910.66 38871910.75 0.0269 0.0242

Uranus 101715-09-12 15:50 G 38871955.04 38871955.16 38871955.29 0.0142 0.0041

Saturn 101715-10-27 02:38 G 38871999.42 38871999.61 38871999.80 0.0270 0.0050

Uranus 101715-12-09 19:11 G 38872043.19 38872043.30 38872043.42 0.0142 0.0062

Saturn 101716-01-24 01:26 G 38872088.40 38872088.56 38872088.72 0.0271 0.0144

Uranus 101716-03-06 22:33 G 38872131.34 38872131.44 38872131.55 0.0142 0.0083

Uranus 101716-06-03 02:09 G 38872219.50 38872219.59 38872219.68 0.0142 0.0103

Uranus 101716-08-30 05:30 G 38872307.67 38872307.73 38872307.79 0.0142 0.0124

Venus 101718-10-28 23:16 G 38873097.42 38873097.47 38873097.53 0.3639 0.3091

Mars 101719-06-15 04:04 G 38873326.61 38873326.67 38873326.73 0.1932 0.1795

Earth 101719-09-05 23:59 G 38873409.35 38873409.50 38873409.64 0.2686 0.1165

Moon 101719-09-06 01:40 G 38873409.41 38873409.57 38873409.72 0.2690 0.0827 *

Jupiter 101720-01-12 07:54 G 38873537.71 38873537.83 38873537.96 0.0512 0.0034

Mars 101720-04-13 04:04 G 38873629.56 38873629.67 38873629.78 0.1622 0.0455

Mars 101722-03-19 05:45 G 38874334.69 38874334.74 38874334.79 0.1606 0.1440

Earth 101723-03-03 02:09 G 38874683.50 38874683.59 38874683.68 0.2647 0.1494

Moon 101723-03-03 02:23 G 38874683.52 38874683.60 38874683.69 0.2653 0.1518 *

Jupiter 101726-03-02 08:52 G 38875778.71 38875778.87 38875779.04 0.0514 0.0249

Mars 101728-11-03 19:40 G 38876756.15 38876756.32 38876756.49 0.1925 0.0142

Saturn 101728-12-10 20:09 G 38876793.27 38876793.34 38876793.41 0.0294 0.0244

Saturn 101729-03-09 07:54 G 38876881.70 38876881.83 38876881.95 0.0292 0.0081

Saturn 101729-06-05 19:26 G 38876970.19 38876970.31 38876970.43 0.0291 0.0081

Saturn 101729-09-02 06:57 G 38877058.72 38877058.79 38877058.86 0.0290 0.0239

Mars 101729-09-03 15:35 G 38877060.06 38877060.15 38877060.25 0.1627 0.0924

Mars 101731-08-09 17:16 G 38877765.13 38877765.22 38877765.31 0.1609 0.0984

Jupiter 101731-10-31 12:42 G 38877847.91 38877848.03 38877848.15 0.0513 0.0189

Jupiter 101732-01-28 16:18 G 38877937.12 38877937.18 38877937.24 0.0510 0.0434

Earth 101736-03-04 19:11 G 38879434.19 38879434.30 38879434.41 0.2646 0.0010

Moon 101736-03-04 19:40 G 38879434.21 38879434.32 38879434.43 0.2649 0.0153 *

Neptune 101736-04-14 12:42 G 38879475.02 38879475.03 38879475.07 0.0090 0.0089

Neptune 101736-07-11 16:33 G 38879563.11 38879563.19 38879563.30 0.0090 0.0078

Neptune 101736-10-07 20:38 G 38879651.23 38879651.36 38879651.49 0.0090 0.0067

Neptune 101737-01-03 23:59 G 38879739.37 38879739.50 38879739.67 0.0090 0.0057

Neptune 101737-04-02 04:04 G 38879827.51 38879827.67 38879827.85 0.0090 0.0045

Neptune 101737-06-29 07:54 G 38879915.66 38879915.83 38879916.02 0.0090 0.0035

Neptune 101737-09-25 11:45 G 38880003.81 38880003.99 38880004.19 0.0090 0.0024

Jupiter 101737-12-19 04:33 G 38880088.65 38880088.69 38880088.74 0.0513 0.0494

Neptune 101737-12-22 15:50 G 38880091.96 38880092.16 38880092.36 0.0090 0.0013

Venus 101738-03-15 10:04 G 38880174.86 38880174.92 38880174.97 0.3728 0.3486

Jupiter 101738-03-19 19:40 G 38880179.26 38880179.32 38880179.37 0.0515 0.0489

Neptune 101738-03-20 19:40 G 38880180.12 38880180.32 38880180.52 0.0090 0.0002

Mars 101738-03-26 11:30 G 38880185.88 38880185.98 38880186.08 0.1918 0.1496

Neptune 101738-06-16 23:30 G 38880268.28 38880268.48 38880268.68 0.0090 0.0009

Neptune 101738-09-13 03:06 G 38880356.45 38880356.63 38880356.83 0.0090 0.0020

Neptune 101738-12-10 07:11 G 38880444.61 38880444.80 38880444.98 0.0090 0.0031

Mars 101739-01-25 03:21 G 38880490.58 38880490.64 38880490.69 0.1632 0.1396

Neptune 101739-03-08 10:47 G 38880532.79 38880532.95 38880533.13 0.0090 0.0042

Neptune 101739-06-04 14:38 G 38880620.96 38880621.11 38880621.28 0.0090 0.0053

Neptune 101739-08-31 18:28 G 38880709.14 38880709.27 38880709.42 0.0090 0.0064

Neptune 101739-11-27 22:04 G 38880797.33 38880797.42 38880797.55 0.0090 0.0075

Neptune 101740-02-24 01:54 G 38880885.54 38880885.58 38880885.65 0.0090 0.0086

Mars 101740-12-30 04:47 G 38881195.59 38881195.70 38881195.81 0.1613 0.0530

Jupiter 101743-08-19 17:16 G 38882158.13 38882158.22 38882158.32 0.0513 0.0348

Jupiter 101743-11-16 21:06 G 38882247.28 38882247.38 38882247.49 0.0511 0.0282

Saturn 101745-03-15 01:11 G 38882731.37 38882731.55 38882731.73 0.0270 0.0107

Saturn 101745-06-11 23:45 G 38882820.32 38882820.49 38882820.68 0.0271 0.0087

Earth 101749-03-07 12:14 G 38884184.92 38884185.01 38884185.10 0.2645 0.1496

Moon 101749-03-07 12:57 G 38884184.95 38884185.04 38884185.13 0.2643 0.1561 *

Jupiter 101750-01-05 15:21 G 38884488.97 38884489.14 38884489.30 0.0514 0.0242

Mars 101750-05-22 16:33 G 38884626.07 38884626.19 38884626.30 0.1618 0.0070

Venus 101753-04-06 08:38 G 38885675.82 38885675.86 38885675.89 0.3649 0.3425

Uranus 101754-08-02 14:09 G 38886159.04 38886159.09 38886159.17 0.0137 0.0128

Uranus 101754-10-29 22:04 G 38886247.30 38886247.42 38886247.56 0.0137 0.0100

Uranus 101755-01-26 05:45 G 38886335.59 38886335.74 38886335.92 0.0137 0.0072

Uranus 101755-04-24 13:40 G 38886423.89 38886424.07 38886424.26 0.0137 0.0044

Jupiter 101755-06-07 22:18 G 38886468.40 38886468.43 38886468.45 0.0514 0.0502

Uranus 101755-07-21 21:21 G 38886512.20 38886512.39 38886512.59 0.0137 0.0016

Jupiter 101755-09-05 02:09 G 38886557.46 38886557.59 38886557.71 0.0511 0.0130

Uranus 101755-10-18 05:16 G 38886600.52 38886600.72 38886600.91 0.0137 0.0012

Uranus 101756-01-14 12:42 G 38886688.85 38886689.03 38886689.23 0.0137 0.0040

Uranus 101756-04-11 20:23 G 38886777.19 38886777.35 38886777.53 0.0136 0.0068

Uranus 101756-07-09 04:04 G 38886865.54 38886865.67 38886865.82 0.0136 0.0095

Uranus 101756-10-05 11:59 G 38886953.92 38886954.00 38886954.08 0.0136 0.0123

Saturn 101758-04-29 22:18 G 38887525.42 38887525.43 38887525.45 0.0294 0.0290

Saturn 101758-07-27 10:04 G 38887613.81 38887613.92 38887614.04 0.0293 0.0126

Venus 101758-10-20 23:30 G 38887699.39 38887699.48 38887699.58 0.3646 0.1623

Saturn 101758-10-23 21:50 G 38887702.28 38887702.41 38887702.54 0.0292 0.0037

Mars 101758-12-14 04:47 G 38887753.68 38887753.70 38887753.72 0.1932 0.1913

Saturn 101759-01-20 09:21 G 38887790.80 38887790.89 38887790.99 0.0291 0.0196

Mars 101759-10-13 04:04 G 38888056.56 38888056.67 38888056.78 0.1622 0.0398

Mars 101761-09-17 05:45 G 38888761.70 38888761.74 38888761.78 0.1606 0.1496

Jupiter 101761-10-24 10:33 G 38888798.75 38888798.94 38888799.13 0.0514 0.0012

Venus 101764-05-05 14:38 G 38889723.01 38889723.11 38889723.21 0.3644 0.0207

Earth 101765-09-06 06:57 G 38890211.63 38890211.79 38890211.95 0.2686 0.0434

Moon 101765-09-06 08:38 G 38890211.70 38890211.86 38890212.02 0.2690 0.0271 *

Pluto 101766-03-08 22:33 G 38890395.39 38890395.44 38890395.54 0.0060 0.0055

Pluto 101766-06-04 23:45 G 38890483.39 38890483.49 38890483.64 0.0060 0.0045

Pluto 101766-09-01 01:11 G 38890571.41 38890571.55 38890571.72 0.0060 0.0035

Pluto 101766-11-28 02:38 G 38890659.45 38890659.61 38890659.80 0.0060 0.0025

Pluto 101767-02-24 03:50 G 38890747.49 38890747.66 38890747.86 0.0060 0.0016

Pluto 101767-05-23 05:16 G 38890835.54 38890835.72 38890835.92 0.0060 0.0005

Jupiter 101767-06-24 07:11 G 38890867.67 38890867.80 38890867.92 0.0512 0.0023

Pluto 101767-08-19 06:42 G 38890923.59 38890923.78 38890923.97 0.0060 0.0005

Pluto 101767-11-15 07:40 G 38891011.65 38891011.82 38891012.02 0.0060 0.0016

Pluto 101768-02-11 08:52 G 38891099.71 38891099.87 38891100.06 0.0060 0.0026

Mars 101768-05-04 20:38 G 38891183.20 38891183.36 38891183.53 0.1926 0.0284

Pluto 101768-05-09 10:18 G 38891187.79 38891187.93 38891188.09 0.0060 0.0036

Pluto 101768-08-05 11:30 G 38891275.87 38891275.98 38891276.12 0.0061 0.0046

Pluto 101768-11-01 12:42 G 38891363.97 38891364.03 38891364.12 0.0061 0.0056

Earth 101769-03-03 06:57 G 38891485.69 38891485.79 38891485.88 0.2647 0.1192

Moon 101769-03-03 07:11 G 38891485.70 38891485.80 38891485.89 0.2653 0.1102 *

Mars 101769-03-04 15:35 G 38891487.06 38891487.15 38891487.25 0.1626 0.0868

Venus 101769-11-19 05:45 G 38891746.65 38891746.74 38891746.82 0.3641 0.1940

Mars 101771-02-07 17:16 G 38892192.13 38892192.22 38892192.31 0.1609 0.1043

Jupiter 101773-08-12 06:57 G 38893108.63 38893108.79 38893108.96 0.0514 0.0246

Saturn 101774-08-01 22:33 G 38893463.30 38893463.44 38893463.60 0.0269 0.0170

Saturn 101774-10-29 21:21 G 38893552.20 38893552.39 38893552.58 0.0270 0.0022

Saturn 101775-01-26 19:54 G 38893641.23 38893641.33 38893641.46 0.0271 0.0217

Mars 101777-09-24 12:28 G 38894612.90 38894613.02 38894613.14 0.1918 0.1361

Mars 101778-07-26 03:06 G 38894917.57 38894917.63 38894917.70 0.1631 0.1343

Jupiter 101779-04-12 11:45 G 38895177.87 38895177.99 38895178.11 0.0512 0.0180

Jupiter 101779-07-10 15:21 G 38895267.08 38895267.14 38895267.20 0.0510 0.0442

Mars 101780-06-30 04:47 G 38895622.59 38895622.70 38895622.81 0.1613 0.0585

Earth 101782-03-05 23:59 G 38896236.39 38896236.50 38896236.60 0.2645 0.0314

Moon 101782-03-06 00:28 G 38896236.42 38896236.52 38896236.63 0.2648 0.0352 *

Jupiter 101785-05-31 03:21 G 38897418.58 38897418.64 38897418.71 0.0513 0.0480

Jupiter 101785-08-29 18:28 G 38897509.25 38897509.27 38897509.31 0.0515 0.0507

Saturn 101787-12-14 11:30 G 38898345.88 38898345.98 38898346.08 0.0294 0.0186

Saturn 101788-03-11 23:16 G 38898434.34 38898434.47 38898434.60 0.0292 0.0023

Saturn 101788-06-08 10:47 G 38898522.84 38898522.95 38898523.06 0.0291 0.0138

Mars 101789-11-20 16:33 G 38899053.07 38899053.19 38899053.30 0.1617 0.0130

Jupiter 101791-01-29 16:18 G 38899488.09 38899488.18 38899488.28 0.0513 0.0338

Jupiter 101791-04-28 20:09 G 38899577.23 38899577.34 38899577.44 0.0511 0.0290

Venus 101794-10-20 13:11 G 38900847.89 38900848.05 38900848.20 0.3730 0.1134

Earth 101795-03-08 17:02 G 38900987.13 38900987.21 38900987.29 0.2644 0.1801

Moon 101795-03-08 17:30 G 38900987.16 38900987.23 38900987.31 0.2643 0.1963 *

Jupiter 101797-06-17 14:09 G 38901818.93 38901819.09 38901819.25 0.0514 0.0258

Uranus 101797-07-31 16:47 G 38901863.18 38901863.20 38901863.22 0.0141 0.0139

Uranus 101797-10-27 19:54 G 38901951.27 38901951.33 38901951.41 0.0141 0.0119

Uranus 101798-01-23 23:30 G 38902039.39 38902039.48 38902039.57 0.0141 0.0098

Uranus 101798-04-22 02:52 G 38902127.51 38902127.62 38902127.73 0.0141 0.0078

Uranus 101798-07-19 06:14 G 38902215.64 38902215.76 38902215.88 0.0141 0.0057

Uranus 101798-10-15 09:35 G 38902303.78 38902303.90 38902304.03 0.0141 0.0037

Uranus 101799-01-11 12:57 G 38902391.91 38902392.04 38902392.18 0.0141 0.0017

Uranus 101799-04-09 16:33 G 38902480.06 38902480.19 38902480.32 0.0142 0.0006

Mars 101799-04-13 04:04 G 38902483.56 38902483.67 38902483.78 0.1622 0.0345

Uranus 101799-07-06 19:54 G 38902568.20 38902568.33 38902568.46 0.0142 0.0025

Uranus 101799-10-02 23:16 G 38902656.35 38902656.47 38902656.59 0.0142 0.0046

Uranus 101799-12-30 02:38 G 38902744.50 38902744.61 38902744.73 0.0142 0.0067

Uranus 101800-03-28 05:59 G 38902832.65 38902832.75 38902832.85 0.0142 0.0088

Uranus 101800-06-24 09:21 G 38902920.81 38902920.89 38902920.98 0.0142 0.0109

Uranus 101800-09-20 12:57 G 38903008.99 38903009.04 38903009.09 0.0142 0.0129

Mars 101801-03-19 05:30 G 38903188.71 38903188.73 38903188.76 0.1605 0.1551

Moon 101802-03-02 18:28 G 38903537.23 38903537.27 38903537.31 0.2654 0.2398

Earth 101802-03-02 18:42 G 38903537.23 38903537.28 38903537.32 0.2648 0.2378 *

Jupiter 101802-11-18 21:06 G 38903798.35 38903798.38 38903798.41 0.0514 0.0496

Jupiter 101803-02-16 00:57 G 38903887.42 38903887.54 38903887.66 0.0512 0.0136

Saturn 101803-12-20 20:38 G 38904195.27 38904195.36 38904195.47 0.0269 0.0231

Saturn 101804-03-18 19:26 G 38904284.12 38904284.31 38904284.50 0.0270 0.0039

Saturn 101804-06-15 17:59 G 38904373.10 38904373.25 38904373.42 0.0271 0.0155

Mars 101807-11-04 21:35 G 38905610.24 38905610.40 38905610.56 0.1926 0.0410

Mars 101808-09-03 15:35 G 38905914.05 38905914.15 38905914.25 0.1627 0.0814

Jupiter 101809-04-06 10:04 G 38906128.73 38906128.92 38906129.10 0.0514 0.0016

Venus 101809-11-12 05:45 G 38906348.68 38906348.74 38906348.81 0.3648 0.2799

Mars 101810-08-09 17:16 G 38906619.13 38906619.22 38906619.30 0.1609 0.1098

Earth 101811-09-08 13:54 G 38907013.92 38907014.08 38907014.25 0.2687 0.0310

Moon 101811-09-08 15:35 G 38907014.00 38907014.15 38907014.31 0.2689 0.0679 *

Jupiter 101814-12-05 05:59 G 38908197.62 38908197.75 38908197.87 0.0512 0.0020

Earth 101815-03-05 11:30 G 38908287.88 38908287.98 38908288.09 0.2646 0.0890

Moon 101815-03-05 11:45 G 38908287.89 38908287.99 38908288.10 0.2653 0.0896 *

Venus 101815-05-28 20:52 G 38908372.28 38908372.37 38908372.47 0.3646 0.0997

Neptune 101816-11-08 01:11 G 38908901.53 38908901.55 38908901.57 0.0088 0.0086

Neptune 101817-02-04 02:23 G 38908989.55 38908989.60 38908989.66 0.0088 0.0079

Mars 101817-03-26 13:11 G 38909039.92 38909040.05 38909040.17 0.1919 0.1244

Neptune 101817-05-03 03:21 G 38909077.58 38909077.64 38909077.73 0.0088 0.0073

Saturn 101817-05-03 13:40 G 38909077.99 38909078.07 38909078.14 0.0294 0.0236

Neptune 101817-07-30 04:47 G 38909165.62 38909165.70 38909165.79 0.0088 0.0066

Saturn 101817-07-31 01:11 G 38909166.43 38909166.55 38909166.68 0.0293 0.0073

Neptune 101817-10-26 05:59 G 38909253.66 38909253.75 38909253.86 0.0088 0.0059

Saturn 101817-10-27 12:57 G 38909254.92 38909255.04 38909255.16 0.0292 0.0090

Neptune 101818-01-22 07:26 G 38909341.71 38909341.81 38909341.92 0.0088 0.0052

Saturn 101818-01-24 00:28 G 38909343.46 38909343.52 38909343.59 0.0291 0.0249

Mars 101818-01-25 03:06 G 38909344.57 38909344.63 38909344.70 0.1631 0.1286

Neptune 101818-04-20 08:38 G 38909429.75 38909429.86 38909429.98 0.0088 0.0045

Neptune 101818-07-17 10:04 G 38909517.80 38909517.92 38909518.04 0.0088 0.0038

Neptune 101818-10-13 11:02 G 38909605.85 38909605.96 38909606.09 0.0088 0.0032

Neptune 101819-01-09 12:28 G 38909693.89 38909694.02 38909694.15 0.0088 0.0025

Neptune 101819-04-07 13:40 G 38909781.94 38909782.07 38909782.20 0.0088 0.0018

Neptune 101819-07-04 14:52 G 38909869.99 38909870.12 38909870.25 0.0088 0.0011

Neptune 101819-09-30 16:18 G 38909958.04 38909958.18 38909958.31 0.0088 0.0005

Neptune 101819-12-27 17:30 G 38910046.10 38910046.23 38910046.36 0.0088 0.0003

Mars 101819-12-31 04:47 G 38910049.59 38910049.70 38910049.81 0.1613 0.0640

Neptune 101820-03-24 18:42 G 38910134.15 38910134.28 38910134.41 0.0088 0.0010

Neptune 101820-06-20 19:54 G 38910222.20 38910222.33 38910222.46 0.0088 0.0016

Neptune 101820-09-16 21:06 G 38910310.26 38910310.38 38910310.51 0.0088 0.0023

Venus 101820-12-11 11:59 G 38910395.90 38910396.00 38910396.10 0.3643 0.0785

Neptune 101820-12-13 22:18 G 38910398.31 38910398.43 38910398.56 0.0088 0.0030

Jupiter 101821-01-23 05:02 G 38910438.55 38910438.71 38910438.88 0.0514 0.0243

Neptune 101821-03-11 23:30 G 38910486.37 38910486.48 38910486.60 0.0088 0.0037

Neptune 101821-06-08 00:42 G 38910574.42 38910574.53 38910574.65 0.0088 0.0044

Neptune 101821-09-04 01:54 G 38910662.48 38910662.58 38910662.70 0.0088 0.0051

Neptune 101821-12-01 03:06 G 38910750.54 38910750.63 38910750.74 0.0088 0.0058

Neptune 101822-02-27 04:33 G 38910838.60 38910838.69 38910838.78 0.0088 0.0064

Neptune 101822-05-26 05:45 G 38910926.67 38910926.74 38910926.82 0.0088 0.0071

Neptune 101822-08-22 06:57 G 38911014.74 38911014.79 38911014.85 0.0088 0.0078

Neptune 101822-11-18 07:54 G 38911102.82 38911102.83 38911102.88 0.0088 0.0085

Venus 101826-06-27 03:06 G 38912419.55 38912419.63 38912419.70 0.3640 0.2553

Jupiter 101826-09-23 11:02 G 38912507.84 38912507.96 38912508.08 0.0512 0.0164

Jupiter 101826-12-21 14:38 G 38912597.05 38912597.11 38912597.16 0.0510 0.0458

Earth 101828-03-07 04:33 G 38913038.59 38913038.69 38913038.80 0.2645 0.0618

Moon 101828-03-07 05:16 G 38913038.62 38913038.72 38913038.82 0.2646 0.0779 *

Mars 101829-05-22 16:33 G 38913480.07 38913480.19 38913480.30 0.1617 0.0183

Jupiter 101832-11-11 01:40 G 38914748.51 38914748.57 38914748.64 0.0513 0.0474

Jupiter 101833-02-09 17:02 G 38914839.20 38914839.21 38914839.22 0.0516 0.0514

Saturn 101833-08-05 16:47 G 38915016.02 38915016.20 38915016.38 0.0269 0.0104

Saturn 101833-11-02 15:21 G 38915104.96 38915105.14 38915105.32 0.0270 0.0088

Jupiter 101838-07-12 15:35 G 38916818.05 38916818.15 38916818.25 0.0513 0.0323

Uranus 101838-08-23 21:06 G 38916860.31 38916860.38 38916860.48 0.0137 0.0122

Jupiter 101838-10-09 19:11 G 38916907.20 38916907.30 38916907.40 0.0510 0.0303

Mars 101838-10-13 04:04 G 38916910.55 38916910.67 38916910.78 0.1622 0.0294

Uranus 101838-11-20 05:02 G 38916948.57 38916948.71 38916948.85 0.0137 0.0094

Uranus 101839-02-16 12:42 G 38917036.87 38917037.03 38917037.21 0.0137 0.0066

Uranus 101839-05-15 20:38 G 38917125.17 38917125.36 38917125.55 0.0137 0.0038

Uranus 101839-08-12 04:18 G 38917213.49 38917213.68 38917213.88 0.0137 0.0010

Uranus 101839-11-08 11:59 G 38917301.81 38917302.00 38917302.20 0.0137 0.0018

Uranus 101840-02-04 19:40 G 38917390.14 38917390.32 38917390.51 0.0137 0.0046

Uranus 101840-05-03 03:21 G 38917478.49 38917478.64 38917478.81 0.0137 0.0074

Uranus 101840-07-30 11:02 G 38917566.84 38917566.96 38917567.10 0.0136 0.0102

Uranus 101840-10-26 18:42 G 38917655.23 38917655.28 38917655.35 0.0136 0.0129

Earth 101841-03-09 21:35 G 38917789.34 38917789.40 38917789.47 0.2644 0.2110

Moon 101841-03-09 22:18 G 38917789.37 38917789.43 38917789.49 0.2642 0.2145 *

Moon 101844-09-05 12:28 G 38919064.97 38919065.02 38919065.07 0.2691 0.2552

Jupiter 101844-11-28 13:26 G 38919148.90 38919149.06 38919149.21 0.0515 0.0277

Saturn 101846-12-18 02:09 G 38919898.48 38919898.59 38919898.70 0.0294 0.0139

Saturn 101847-03-16 13:54 G 38919986.95 38919987.08 38919987.21 0.0292 0.0025

Mars 101847-05-05 22:33 G 38920037.27 38920037.44 38920037.60 0.1926 0.0546

Saturn 101847-06-13 01:26 G 38920075.46 38920075.56 38920075.66 0.0291 0.0185

Moon 101848-03-02 23:16 G 38920339.41 38920339.47 38920339.54 0.2655 0.2080

Earth 101848-03-02 23:16 G 38920339.41 38920339.47 38920339.54 0.2648 0.2074 *

Mars 101848-03-04 15:35 G 38920341.05 38920341.15 38920341.25 0.1626 0.0760

Mars 101850-02-07 17:02 G 38921046.13 38921046.21 38921046.29 0.1609 0.1153

Jupiter 101850-04-30 20:23 G 38921128.30 38921128.35 38921128.39 0.0513 0.0481

Jupiter 101850-07-28 23:59 G 38921217.38 38921217.50 38921217.63 0.0511 0.0150

Venus 101851-05-28 16:04 G 38921521.02 38921521.17 38921521.33 0.3731 0.1195

Jupiter 101856-09-16 09:06 G 38923458.70 38923458.88 38923459.07 0.0514 0.0035

Mars 101856-09-24 14:23 G 38923466.96 38923467.10 38923467.24 0.1919 0.1090

Mars 101857-07-26 03:06 G 38923771.56 38923771.63 38923771.71 0.1631 0.1233

Earth 101857-09-08 20:52 G 38923816.22 38923816.37 38923816.52 0.2687 0.1033

Moon 101857-09-08 22:47 G 38923816.31 38923816.45 38923816.60 0.2687 0.1191 *

Mars 101859-07-01 04:47 G 38924476.60 38924476.70 38924476.80 0.1613 0.0695

Pluto 101860-12-11 09:21 G 38925005.83 38925005.89 38925005.96 0.0084 0.0073

Earth 101861-03-05 16:18 G 38925090.08 38925090.18 38925090.29 0.2646 0.0577

Moon 101861-03-05 16:47 G 38925090.09 38925090.20 38925090.30 0.2651 0.0501 *

Pluto 101861-03-09 10:33 G 38925093.85 38925093.94 38925094.05 0.0084 0.0054

Pluto 101861-06-05 11:59 G 38925181.88 38925182.00 38925182.12 0.0084 0.0035

Pluto 101861-09-01 13:11 G 38925269.92 38925270.05 38925270.18 0.0084 0.0016

Pluto 101861-11-28 14:23 G 38925357.97 38925358.10 38925358.24 0.0083 0.0003

Pluto 101862-02-24 15:35 G 38925446.02 38925446.15 38925446.28 0.0083 0.0022

Jupiter 101862-05-17 05:02 G 38925527.58 38925527.71 38925527.83 0.0512 0.0018

Pluto 101862-05-23 16:33 G 38925534.09 38925534.19 38925534.32 0.0083 0.0041

Pluto 101862-08-19 17:45 G 38925622.16 38925622.24 38925622.35 0.0083 0.0060

Pluto 101862-11-15 19:11 G 38925710.26 38925710.30 38925710.35 0.0083 0.0078

Saturn 101862-12-23 14:23 G 38925747.95 38925748.10 38925748.25 0.0269 0.0169

Saturn 101863-03-22 12:57 G 38925836.85 38925837.04 38925837.23 0.0270 0.0022

Saturn 101863-06-19 11:45 G 38925925.87 38925925.99 38925926.10 0.0271 0.0216

Venus 101866-06-19 03:06 G 38927021.55 38927021.63 38927021.71 0.3647 0.2166

Jupiter 101868-07-05 05:02 G 38927768.55 38927768.71 38927768.89 0.0513 0.0210

Mars 101868-11-20 16:18 G 38927907.07 38927907.18 38927907.30 0.1617 0.0236

Venus 101872-01-02 18:14 G 38929045.16 38929045.26 38929045.36 0.3645 0.0373

Jupiter 101874-03-05 10:04 G 38929837.80 38929837.92 38929838.04 0.0512 0.0155

Earth 101874-03-08 09:21 G 38929840.79 38929840.89 38929840.99 0.2645 0.0918

Moon 101874-03-08 10:04 G 38929840.82 38929840.92 38929841.02 0.2646 0.0982 *

Jupiter 101874-06-02 13:26 G 38929927.02 38929927.06 38929927.11 0.0510 0.0467

Saturn 101876-05-06 03:50 G 38930630.57 38930630.66 38930630.76 0.0294 0.0192

Saturn 101876-08-02 15:35 G 38930719.03 38930719.15 38930719.28 0.0293 0.0029

Saturn 101876-10-30 03:21 G 38930807.53 38930807.64 38930807.75 0.0292 0.0134

Venus 101877-07-18 09:21 G 38931068.79 38931068.89 38931068.98 0.3642 0.1404

Mars 101878-04-13 04:04 G 38931337.55 38931337.67 38931337.78 0.1622 0.0236

Jupiter 101880-04-23 00:14 G 38932078.43 38932078.51 38932078.58 0.0513 0.0466

Uranus 101881-08-22 00:28 G 38932564.48 38932564.52 38932564.56 0.0141 0.0132

Uranus 101881-11-18 03:50 G 38932652.58 38932652.66 38932652.74 0.0141 0.0112

Uranus 101882-02-14 07:11 G 38932740.70 38932740.80 38932740.90 0.0141 0.0091

Uranus 101882-05-13 10:33 G 38932828.83 38932828.94 38932829.06 0.0141 0.0071

Uranus 101882-08-09 13:54 G 38932916.96 38932917.08 38932917.21 0.0141 0.0051

Uranus 101882-11-05 17:16 G 38933005.10 38933005.22 38933005.35 0.0141 0.0030

Venus 101883-02-01 00:14 G 38933092.47 38933092.51 38933092.56 0.3640 0.3159

Uranus 101883-02-01 20:38 G 38933093.23 38933093.36 38933093.50 0.0141 0.0011

Uranus 101883-05-01 00:14 G 38933181.38 38933181.51 38933181.64 0.0141 0.0012

Uranus 101883-07-28 03:35 G 38933269.52 38933269.65 38933269.77 0.0142 0.0032

Uranus 101883-10-24 06:42 G 38933357.67 38933357.78 38933357.91 0.0142 0.0054

Uranus 101884-01-20 10:18 G 38933445.82 38933445.93 38933446.04 0.0142 0.0074

Uranus 101884-04-17 13:40 G 38933533.98 38933534.07 38933534.17 0.0142 0.0095

Uranus 101884-07-14 17:02 G 38933622.14 38933622.21 38933622.29 0.0142 0.0116

Uranus 101884-10-10 20:38 G 38933710.32 38933710.36 38933710.39 0.0142 0.0136

Jupiter 101885-12-22 15:06 G 38934148.03 38934148.13 38934148.23 0.0513 0.0302

Jupiter 101886-03-21 18:42 G 38934237.19 38934237.28 38934237.38 0.0510 0.0322

Mars 101886-11-03 23:30 G 38934464.33 38934464.48 38934464.64 0.1926 0.0699

Earth 101887-03-11 02:23 G 38934591.56 38934591.60 38934591.64 0.2644 0.2412

Moon 101887-03-11 02:52 G 38934591.59 38934591.62 38934591.65 0.2640 0.2543 *

Mars 101887-09-03 15:35 G 38934768.04 38934768.15 38934768.25 0.1626 0.0703

Mars 101889-08-08 17:16 G 38935473.14 38935473.22 38935473.29 0.1609 0.1215

Earth 101890-09-06 18:14 G 38935867.16 38935867.26 38935867.36 0.2685 0.2115

Moon 101890-09-06 19:40 G 38935867.21 38935867.32 38935867.43 0.2690 0.1985 *

Jupiter 101892-05-10 11:45 G 38936478.84 38936478.99 38936479.15 0.0515 0.0286

Saturn 101892-05-11 11:30 G 38936479.90 38936479.98 38936480.08 0.0268 0.0233

Saturn 101892-08-08 10:04 G 38936568.74 38936568.92 38936569.12 0.0269 0.0044

Saturn 101892-11-05 08:38 G 38936657.71 38936657.86 38936658.03 0.0270 0.0149

Moon 101894-03-04 04:04 G 38937141.59 38937141.67 38937141.75 0.2655 0.1799

Earth 101894-03-04 04:04 G 38937141.59 38937141.67 38937141.75 0.2647 0.1768 *

Mars 101896-03-25 15:06 G 38937893.99 38937894.13 38937894.28 0.1919 0.0960

Mars 101897-01-24 03:06 G 38938198.55 38938198.63 38938198.71 0.1631 0.1180

Jupiter 101897-10-10 19:40 G 38938458.27 38938458.32 38938458.38 0.0513 0.0462

Jupiter 101898-01-07 23:30 G 38938547.36 38938547.48 38938547.60 0.0511 0.0167

Mars 101898-12-30 04:47 G 38938903.59 38938903.70 38938903.80 0.1613 0.0753

Neptune 101901-01-11 09:50 G 38939645.89 38939645.91 38939645.99 0.0090 0.0087

Neptune 101901-04-09 13:54 G 38939733.99 38939734.08 38939734.20 0.0090 0.0076

Neptune 101901-07-06 17:45 G 38939822.12 38939822.24 38939822.39 0.0090 0.0065

Neptune 101901-10-02 21:50 G 38939910.26 38939910.41 38939910.57 0.0090 0.0054

Neptune 101901-12-30 01:40 G 38939998.40 38939998.57 38939998.75 0.0090 0.0043

Neptune 101902-03-28 05:16 G 38940086.55 38940086.72 38940086.92 0.0090 0.0033

Neptune 101902-06-24 09:06 G 38940174.70 38940174.88 38940175.08 0.0090 0.0022

Neptune 101902-09-20 13:11 G 38940262.86 38940263.05 38940263.25 0.0090 0.0010

Neptune 101902-12-17 17:02 G 38940351.01 38940351.21 38940351.41 0.0090 0.0001

Neptune 101903-03-15 20:52 G 38940439.17 38940439.37 38940439.57 0.0090 0.0011

Neptune 101903-06-12 00:28 G 38940527.34 38940527.52 38940527.72 0.0090 0.0023

Neptune 101903-09-08 04:18 G 38940615.51 38940615.68 38940615.87 0.0090 0.0033

Earth 101903-09-11 04:04 G 38940618.55 38940618.67 38940618.79 0.2687 0.1767

Moon 101903-09-11 05:59 G 38940618.65 38940618.75 38940618.84 0.2686 0.2178 *

Neptune 101903-12-05 08:23 G 38940703.68 38940703.85 38940704.02 0.0090 0.0044

Jupiter 101904-02-28 08:23 G 38940788.67 38940788.85 38940789.04 0.0515 0.0053

Neptune 101904-03-02 11:59 G 38940791.85 38940792.00 38940792.16 0.0090 0.0055

Neptune 101904-05-29 15:50 G 38940880.04 38940880.16 38940880.30 0.0090 0.0066

Neptune 101904-08-25 19:26 G 38940968.23 38940968.31 38940968.43 0.0090 0.0077

Neptune 101904-11-21 23:16 G 38941056.45 38941056.47 38941056.53 0.0090 0.0088

Saturn 101905-09-24 04:33 G 38941362.63 38941362.69 38941362.75 0.0295 0.0262

Saturn 101905-12-21 16:18 G 38941451.06 38941451.18 38941451.30 0.0294 0.0097

Saturn 101906-03-20 04:04 G 38941539.54 38941539.67 38941539.79 0.0292 0.0067

Saturn 101906-06-16 15:35 G 38941628.07 38941628.15 38941628.23 0.0291 0.0227

Earth 101907-03-07 21:06 G 38941892.27 38941892.38 38941892.49 0.2646 0.0278

Moon 101907-03-07 21:35 G 38941892.29 38941892.40 38941892.51 0.2650 0.0183 *

Venus 101908-01-03 19:26 G 38942194.27 38942194.31 38942194.35 0.3732 0.3610

Mars 101908-05-22 16:18 G 38942334.07 38942334.18 38942334.30 0.1617 0.0288

Jupiter 101909-10-28 04:18 G 38942857.55 38942857.68 38942857.81 0.0512 0.0013

Jupiter 101915-12-17 04:33 G 38945098.52 38945098.69 38945098.86 0.0514 0.0188

Venus 101917-07-11 09:21 G 38945670.85 38945670.89 38945670.93 0.3649 0.3347

Mars 101917-10-13 03:50 G 38945764.55 38945764.66 38945764.78 0.1622 0.0182

Earth 101920-03-09 14:09 G 38946642.99 38946643.09 38946643.18 0.2645 0.1226

Moon 101920-03-09 14:52 G 38946643.02 38946643.12 38946643.21 0.2645 0.1382 *

Jupiter 101921-08-16 09:06 G 38947167.76 38947167.88 38947168.00 0.0512 0.0143

Jupiter 101921-11-13 12:28 G 38947256.99 38947257.02 38947257.07 0.0510 0.0480

Saturn 101921-12-27 07:40 G 38947300.64 38947300.82 38947300.99 0.0269 0.0110

Saturn 101922-03-26 05:59 G 38947389.57 38947389.75 38947389.94 0.0270 0.0082

Uranus 101922-09-14 04:18 G 38947561.59 38947561.68 38947561.80 0.0137 0.0115

Uranus 101922-12-11 11:59 G 38947649.86 38947650.00 38947650.16 0.0137 0.0087

Venus 101923-01-25 00:28 G 38947694.43 38947694.52 38947694.61 0.3647 0.1538

Uranus 101923-03-09 19:54 G 38947738.16 38947738.33 38947738.51 0.0137 0.0059

Uranus 101923-06-06 03:50 G 38947826.47 38947826.66 38947826.85 0.0137 0.0031

Uranus 101923-09-02 11:30 G 38947914.79 38947914.98 38947915.18 0.0137 0.0004

Uranus 101923-11-29 19:11 G 38948003.11 38948003.30 38948003.50 0.0137 0.0025

Uranus 101924-02-26 03:06 G 38948091.45 38948091.63 38948091.81 0.0137 0.0053

Uranus 101924-05-24 10:47 G 38948179.80 38948179.95 38948180.11 0.0137 0.0081

Uranus 101924-08-20 18:28 G 38948268.16 38948268.27 38948268.39 0.0136 0.0109

Uranus 101924-11-17 02:23 G 38948356.60 38948356.60 38948356.60 0.0136 0.0136

Mars 101926-05-06 00:14 G 38948891.36 38948891.51 38948891.66 0.1926 0.0818

Mars 101927-03-05 15:35 G 38949195.04 38949195.15 38949195.25 0.1626 0.0651

Jupiter 101927-10-05 00:28 G 38949408.42 38949408.52 38949408.62 0.0513 0.0428

Venus 101928-08-09 15:35 G 38949718.05 38949718.15 38949718.25 0.3644 0.0250

Mars 101929-02-07 17:02 G 38949900.14 38949900.21 38949900.28 0.1609 0.1268

Jupiter 101933-06-04 14:09 G 38951477.99 38951478.09 38951478.19 0.0513 0.0292

Jupiter 101933-09-01 17:45 G 38951567.15 38951567.24 38951567.34 0.0510 0.0333

Venus 101934-02-23 06:42 G 38951741.69 38951741.78 38951741.86 0.3641 0.2019

Saturn 101935-05-10 17:59 G 38952183.14 38952183.25 38952183.36 0.0294 0.0153

Saturn 101935-08-07 05:45 G 38952271.61 38952271.74 38952271.86 0.0293 0.0015

Mars 101935-09-25 16:04 G 38952321.01 38952321.17 38952321.32 0.1919 0.0834

Saturn 101935-11-03 17:16 G 38952360.12 38952360.22 38952360.33 0.0292 0.0173

Mars 101936-07-26 03:06 G 38952625.55 38952625.63 38952625.71 0.1631 0.1121

Earth 101936-09-08 01:11 G 38952669.41 38952669.55 38952669.69 0.2686 0.1392

Moon 101936-09-08 02:52 G 38952669.47 38952669.62 38952669.77 0.2688 0.1115 *

Mars 101938-07-01 04:47 G 38953330.60 38953330.70 38953330.80 0.1613 0.0810

Jupiter 101939-10-22 10:18 G 38953808.78 38953808.93 38953809.08 0.0515 0.0295

Moon 101940-03-05 08:52 G 38953943.78 38953943.87 38953943.96 0.2654 0.1420

Earth 101940-03-05 08:38 G 38953943.78 38953943.86 38953943.95 0.2647 0.1467 *

Jupiter 101945-03-23 19:11 G 38955788.24 38955788.30 38955788.37 0.0513 0.0440

Jupiter 101945-06-20 23:02 G 38955877.34 38955877.46 38955877.58 0.0511 0.0188

Mars 101945-12-16 14:23 G 38956056.09 38956056.10 38956056.12 0.1636 0.1606

Mars 101947-11-21 16:18 G 38956761.07 38956761.18 38956761.29 0.1617 0.0348

Earth 101949-09-11 10:47 G 38957420.90 38957420.95 38957421.01 0.2687 0.2490

Moon 101949-09-11 12:57 G 38957421.02 38957421.04 38957421.05 0.2687 0.2671

Saturn 101951-05-16 04:47 G 38958032.56 38958032.70 38958032.85 0.0268 0.0174

Jupiter 101951-08-10 06:57 G 38958118.60 38958118.79 38958118.97 0.0515 0.0061

Saturn 101951-08-13 03:21 G 38958121.45 38958121.64 38958121.84 0.0269 0.0017

Saturn 101951-11-10 01:54 G 38958210.47 38958210.58 38958210.71 0.0270 0.0209

Earth 101953-03-08 01:40 G 38958694.47 38958694.57 38958694.68 0.2646 0.0116

Moon 101953-03-08 02:23 G 38958694.49 38958694.60 38958694.71 0.2649 0.0112 *

Jupiter 101957-04-09 03:50 G 38960187.53 38960187.66 38960187.78 0.0511 0.0036

Mars 101957-04-13 03:50 G 38960191.54 38960191.66 38960191.78 0.1621 0.0123

Venus 101959-01-24 09:21 G 38960842.75 38960842.89 38960843.03 0.3729 0.1686

Jupiter 101963-05-29 03:35 G 38962428.48 38962428.65 38962428.83 0.0514 0.0169

Saturn 101964-09-26 18:28 G 38962915.19 38962915.27 38962915.35 0.0295 0.0224

Saturn 101964-12-24 06:14 G 38963003.64 38963003.76 38963003.89 0.0294 0.0059

Saturn 101965-03-22 17:59 G 38963092.13 38963092.25 38963092.37 0.0293 0.0104

Saturn 101965-06-19 05:30 G 38963180.68 38963180.73 38963180.78 0.0291 0.0265

Uranus 101965-09-12 08:09 G 38963265.79 38963265.84 38963265.90 0.0141 0.0125

Mars 101965-11-04 01:26 G 38963318.41 38963318.56 38963318.70 0.1927 0.0964

Uranus 101965-12-09 11:45 G 38963353.90 38963353.99 38963354.07 0.0141 0.0104

Uranus 101966-03-07 14:52 G 38963442.02 38963442.12 38963442.23 0.0141 0.0084

Earth 101966-03-10 18:42 G 38963445.20 38963445.28 38963445.37 0.2645 0.1534

Moon 101966-03-10 19:26 G 38963445.23 38963445.31 38963445.40 0.2644 0.1617 *

Uranus 101966-06-03 18:28 G 38963530.15 38963530.27 38963530.39 0.0141 0.0063

Uranus 101966-08-30 21:50 G 38963618.28 38963618.41 38963618.53 0.0141 0.0043

Mars 101966-09-03 15:21 G 38963622.04 38963622.14 38963622.25 0.1626 0.0597

Uranus 101966-11-27 01:11 G 38963706.42 38963706.55 38963706.68 0.0141 0.0022

Uranus 101967-02-23 04:33 G 38963794.56 38963794.69 38963794.82 0.0141 0.0002

Uranus 101967-05-22 07:54 G 38963882.70 38963882.83 38963882.96 0.0141 0.0019

Uranus 101967-08-18 11:16 G 38963970.85 38963970.97 38963971.10 0.0141 0.0040

Uranus 101967-11-14 14:38 G 38964059.00 38964059.11 38964059.23 0.0142 0.0061

Uranus 101968-02-10 17:59 G 38964147.15 38964147.25 38964147.36 0.0142 0.0082

Uranus 101968-05-08 21:21 G 38964235.31 38964235.39 38964235.49 0.0142 0.0103

Uranus 101968-08-05 00:57 G 38964323.48 38964323.54 38964323.60 0.0142 0.0123

Mars 101968-08-08 17:02 G 38964327.14 38964327.21 38964327.27 0.1609 0.1325

Jupiter 101969-01-26 08:23 G 38964497.73 38964497.85 38964497.98 0.0512 0.0125

Jupiter 101969-04-25 11:59 G 38964586.98 38964587.00 38964587.03 0.0510 0.0496

Moon 101973-03-03 20:09 G 38965995.33 38965995.34 38965995.35 0.2655 0.2639

Venus 101974-02-15 06:42 G 38966343.71 38966343.78 38966343.85 0.3649 0.2711

Jupiter 101975-03-16 23:45 G 38966738.38 38966738.49 38966738.61 0.0513 0.0406

Mars 101975-03-26 17:02 G 38966748.05 38966748.21 38966748.37 0.1919 0.0686

Mars 101976-01-25 02:52 G 38967052.54 38967052.62 38967052.71 0.1631 0.1073

Mars 101977-12-30 04:33 G 38967757.60 38967757.69 38967757.79 0.1613 0.0867

Venus 101979-08-31 21:50 G 38968367.31 38968367.41 38968367.51 0.3646 0.0910

Saturn 101980-10-02 02:09 G 38968764.51 38968764.59 38968764.68 0.0268 0.0241

Jupiter 101980-11-14 13:11 G 38968807.95 38968808.05 38968808.16 0.0513 0.0281

Saturn 101980-12-30 00:42 G 38968853.34 38968853.53 38968853.72 0.0269 0.0052

Jupiter 101981-02-11 16:47 G 38968897.11 38968897.20 38968897.30 0.0511 0.0345

Saturn 101981-03-28 23:16 G 38968942.31 38968942.47 38968942.63 0.0270 0.0140

Neptune 101981-08-06 00:14 G 38969072.49 38969072.51 38969072.55 0.0088 0.0085

Neptune 101981-11-02 01:40 G 38969160.52 38969160.57 38969160.63 0.0088 0.0078

Neptune 101982-01-29 02:52 G 38969248.55 38969248.62 38969248.70 0.0088 0.0071

Neptune 101982-04-27 04:18 G 38969336.59 38969336.68 38969336.77 0.0088 0.0064

Neptune 101982-07-24 05:16 G 38969424.63 38969424.72 38969424.83 0.0088 0.0058

Earth 101982-09-09 08:23 G 38969471.69 38969471.85 38969472.00 0.2686 0.0653

Moon 101982-09-09 10:04 G 38969471.76 38969471.92 38969472.08 0.2688 0.0358 *

Neptune 101982-10-20 06:42 G 38969512.68 38969512.78 38969512.89 0.0088 0.0051

Neptune 101983-01-16 07:54 G 38969600.72 38969600.83 38969600.95 0.0088 0.0044

Neptune 101983-04-14 09:06 G 38969688.77 38969688.88 38969689.01 0.0088 0.0037

Neptune 101983-07-11 10:33 G 38969776.82 38969776.94 38969777.06 0.0088 0.0030

Neptune 101983-10-07 11:45 G 38969864.86 38969864.99 38969865.12 0.0088 0.0023

Neptune 101984-01-03 12:57 G 38969952.91 38969953.04 38969953.17 0.0088 0.0016

Neptune 101984-03-31 14:09 G 38970040.96 38970041.09 38970041.23 0.0088 0.0010

Neptune 101984-06-27 15:35 G 38970129.01 38970129.15 38970129.28 0.0088 0.0004

Neptune 101984-09-23 16:47 G 38970217.07 38970217.20 38970217.33 0.0088 0.0004

Neptune 101984-12-20 17:59 G 38970305.12 38970305.25 38970305.38 0.0088 0.0011

Venus 101985-03-16 12:57 G 38970390.94 38970391.04 38970391.14 0.3643 0.0872

Neptune 101985-03-18 19:11 G 38970393.17 38970393.30 38970393.43 0.0088 0.0018

Neptune 101985-06-14 20:23 G 38970481.23 38970481.35 38970481.48 0.0088 0.0025

Mars 101985-06-16 14:23 G 38970483.07 38970483.10 38970483.14 0.1636 0.1550

Neptune 101985-09-10 21:35 G 38970569.28 38970569.40 38970569.53 0.0088 0.0032

Neptune 101985-12-07 22:47 G 38970657.34 38970657.45 38970657.57 0.0088 0.0038

Neptune 101986-03-06 00:14 G 38970745.40 38970745.51 38970745.62 0.0088 0.0045

Earth 101986-03-06 13:26 G 38970745.97 38970746.06 38970746.16 0.2647 0.1155

Moon 101986-03-06 13:40 G 38970745.98 38970746.07 38970746.17 0.2653 0.1170 *

Neptune 101986-06-02 01:11 G 38970833.45 38970833.55 38970833.67 0.0088 0.0052

Neptune 101986-08-29 02:23 G 38970921.51 38970921.60 38970921.71 0.0088 0.0059

Neptune 101986-11-25 03:35 G 38971009.58 38971009.65 38971009.75 0.0088 0.0066

Neptune 101987-02-21 05:16 G 38971097.64 38971097.72 38971097.79 0.0088 0.0072

Jupiter 101987-04-03 10:47 G 38971138.81 38971138.95 38971139.09 0.0515 0.0334

Neptune 101987-05-20 06:14 G 38971185.71 38971185.76 38971185.82 0.0088 0.0079

Mars 101987-05-22 16:18 G 38971188.06 38971188.18 38971188.29 0.1617 0.0402

Neptune 101987-08-16 07:26 G 38971273.79 38971273.81 38971273.84 0.0088 0.0086

Venus 101990-09-30 03:50 G 38972414.60 38972414.66 38972414.73 0.3641 0.2633

Jupiter 101992-09-02 18:14 G 38973118.20 38973118.26 38973118.33 0.0513 0.0430

Jupiter 101992-11-30 22:04 G 38973207.31 38973207.42 38973207.54 0.0511 0.0199

Saturn 101994-02-13 19:54 G 38973647.30 38973647.33 38973647.37 0.0295 0.0281

Saturn 101994-05-13 07:54 G 38973735.71 38973735.83 38973735.95 0.0294 0.0114

Saturn 101994-08-09 19:40 G 38973824.19 38973824.32 38973824.44 0.0293 0.0050

Saturn 101994-11-06 07:11 G 38973912.71 38973912.80 38973912.89 0.0292 0.0211

Mars 101996-10-12 03:50 G 38974618.55 38974618.66 38974618.78 0.1621 0.0068

Jupiter 101999-01-20 05:30 G 38975448.54 38975448.73 38975448.91 0.0515 0.0070

Earth 101999-03-09 06:28 G 38975496.67 38975496.77 38975496.88 0.2646 0.0346

Moon 101999-03-09 07:11 G 38975496.69 38975496.80 38975496.90 0.2649 0.0481 *

103RD MILLENNIUM CE

This is a list of transits of Mercury in the 103rd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Jupiter 102004-09-19 03:21 G 38977517.51 38977517.64 38977517.76 0.0511 0.0054

Mars 102005-05-05 02:23 G 38977745.46 38977745.60 38977745.73 0.1927 0.1108

Mars 102006-03-04 15:21 G 38978049.03 38978049.14 38978049.25 0.1626 0.0539

Uranus 102006-07-08 04:04 G 38978174.64 38978174.67 38978174.70 0.0137 0.0135

Uranus 102006-10-04 11:30 G 38978262.87 38978262.98 38978263.11 0.0137 0.0108

Uranus 102006-12-31 19:11 G 38978351.16 38978351.30 38978351.47 0.0137 0.0080

Uranus 102007-03-30 03:06 G 38978439.46 38978439.63 38978439.82 0.0137 0.0052

Uranus 102007-06-26 11:02 G 38978527.77 38978527.96 38978528.15 0.0137 0.0024

Uranus 102007-09-22 18:42 G 38978616.09 38978616.28 38978616.48 0.0137 0.0006

Uranus 102007-12-20 02:23 G 38978704.42 38978704.60 38978704.80 0.0137 0.0033

Mars 102008-02-07 17:02 G 38978754.15 38978754.21 38978754.27 0.1609 0.1384

Uranus 102008-03-17 10:04 G 38978792.76 38978792.92 38978793.11 0.0137 0.0061

Uranus 102008-06-13 17:45 G 38978881.11 38978881.24 38978881.40 0.0137 0.0089

Uranus 102008-09-10 01:26 G 38978969.48 38978969.56 38978969.68 0.0136 0.0117

Saturn 102010-05-18 22:33 G 38979585.26 38979585.44 38979585.61 0.0268 0.0113

Saturn 102010-08-15 20:52 G 38979674.19 38979674.37 38979674.56 0.0269 0.0078

Jupiter 102010-11-08 01:54 G 38979758.41 38979758.58 38979758.76 0.0514 0.0164

Earth 102012-03-10 23:30 G 38980247.40 38980247.48 38980247.56 0.2645 0.1838

Moon 102012-03-10 23:59 G 38980247.43 38980247.50 38980247.58 0.2642 0.1927 *

Pluto 102014-04-06 04:04 G 38981003.65 38981003.67 38981003.74 0.0060 0.0058

Pluto 102014-07-03 05:30 G 38981091.63 38981091.73 38981091.86 0.0060 0.0048

Mars 102014-09-24 17:59 G 38981175.09 38981175.25 38981175.41 0.1919 0.0549

Pluto 102014-09-29 06:57 G 38981179.65 38981179.79 38981179.95 0.0060 0.0038

Pluto 102014-12-26 08:23 G 38981267.68 38981267.85 38981268.02 0.0060 0.0028

Pluto 102015-03-24 09:35 G 38981355.72 38981355.90 38981356.09 0.0060 0.0018

Pluto 102015-06-20 11:02 G 38981443.77 38981443.96 38981444.15 0.0060 0.0008

Mars 102015-07-26 02:52 G 38981479.53 38981479.62 38981479.71 0.1631 0.1015

Venus 102015-08-31 12:28 G 38981515.87 38981516.02 38981516.18 0.3730 0.0704

Pluto 102015-09-16 12:14 G 38981531.82 38981532.01 38981532.20 0.0060 0.0002

Pluto 102015-12-13 13:26 G 38981619.88 38981620.06 38981620.25 0.0060 0.0012

Pluto 102016-03-10 14:38 G 38981707.94 38981708.11 38981708.30 0.0060 0.0022

Pluto 102016-06-06 16:04 G 38981796.01 38981796.17 38981796.33 0.0060 0.0032

Jupiter 102016-07-08 07:54 G 38981827.71 38981827.83 38981827.96 0.0512 0.0104

Pluto 102016-09-02 17:16 G 38981884.09 38981884.22 38981884.36 0.0060 0.0042

Pluto 102016-11-29 17:59 G 38981972.18 38981972.25 38981972.37 0.0061 0.0053

Mars 102017-06-30 04:33 G 38982184.60 38982184.69 38982184.79 0.1613 0.0923

Moon 102019-03-05 00:57 G 38982797.50 38982797.54 38982797.58 0.2655 0.2450

Earth 102019-03-05 01:11 G 38982797.50 38982797.55 38982797.60 0.2648 0.2344 *

Jupiter 102022-08-26 22:47 G 38984068.33 38984068.45 38984068.57 0.0514 0.0391

Saturn 102023-09-30 08:23 G 38984467.75 38984467.85 38984467.95 0.0295 0.0186

Saturn 102023-12-27 20:09 G 38984556.21 38984556.34 38984556.47 0.0294 0.0021

Saturn 102024-03-25 07:54 G 38984644.72 38984644.83 38984644.94 0.0292 0.0142

Mars 102024-12-15 14:23 G 38984910.06 38984910.10 38984910.15 0.1636 0.1496

Mars 102026-11-20 16:18 G 38985615.06 38985615.18 38985615.29 0.1617 0.0460

Jupiter 102028-04-26 12:42 G 38986137.92 38986138.03 38986138.14 0.0512 0.0260

Jupiter 102028-07-24 16:18 G 38986227.09 38986227.18 38986227.27 0.0510 0.0363

Earth 102028-09-09 15:21 G 38986273.97 38986274.14 38986274.30 0.2686 0.0110

Moon 102028-09-09 17:16 G 38986274.06 38986274.22 38986274.38 0.2688 0.0340 *

Venus 102030-09-22 04:04 G 38987016.59 38987016.67 38987016.75 0.3648 0.2077

Earth 102032-03-06 18:14 G 38987548.16 38987548.26 38987548.36 0.2647 0.0847

Moon 102032-03-06 18:28 G 38987548.17 38987548.27 38987548.38 0.2652 0.0735 *

Jupiter 102034-09-13 10:04 G 38988468.78 38988468.92 38988469.05 0.0515 0.0354

Venus 102036-04-06 19:11 G 38989040.20 38989040.30 38989040.40 0.3645 0.0286

Mars 102036-04-12 03:50 G 38989045.54 38989045.66 38989045.77 0.1621 0.0036

Saturn 102039-10-05 19:54 G 38990317.19 38990317.33 38990317.47 0.0268 0.0179

Saturn 102040-01-02 18:28 G 38990406.07 38990406.27 38990406.46 0.0269 0.0012

Jupiter 102040-02-13 17:16 G 38990448.15 38990448.22 38990448.29 0.0513 0.0419

Saturn 102040-03-31 16:47 G 38990495.08 38990495.20 38990495.33 0.0270 0.0203

Jupiter 102040-05-12 21:06 G 38990537.26 38990537.38 38990537.49 0.0511 0.0209

Venus 102041-10-21 10:18 G 38991063.83 38991063.93 38991064.02 0.3643 0.1486

Mars 102044-11-03 03:06 G 38992172.50 38992172.63 38992172.76 0.1927 0.1237

Earth 102045-03-09 11:16 G 38992298.86 38992298.97 38992299.07 0.2646 0.0653

Moon 102045-03-09 11:45 G 38992298.89 38992298.99 38992299.10 0.2648 0.0720 *

Mars 102045-09-02 15:21 G 38992476.03 38992476.14 38992476.25 0.1626 0.0482

Jupiter 102046-07-02 05:45 G 38992778.56 38992778.74 38992778.92 0.0514 0.0109

Venus 102047-05-07 01:11 G 38993087.51 38993087.55 38993087.60 0.3640 0.3235

Mars 102047-08-08 17:02 G 38993181.16 38993181.21 38993181.26 0.1609 0.1441

Uranus 102049-07-06 12:28 G 38993879.00 38993879.02 38993879.05 0.0141 0.0138

Uranus 102049-10-02 16:04 G 38993967.10 38993967.17 38993967.24 0.0141 0.0117

Uranus 102049-12-29 19:11 G 38994055.22 38994055.30 38994055.41 0.0141 0.0097

Uranus 102050-03-27 22:47 G 38994143.34 38994143.45 38994143.56 0.0141 0.0076

Uranus 102050-06-24 02:09 G 38994231.47 38994231.59 38994231.71 0.0141 0.0056

Uranus 102050-09-20 05:30 G 38994319.61 38994319.73 38994319.86 0.0141 0.0035

Uranus 102050-12-17 08:52 G 38994407.75 38994407.87 38994408.01 0.0141 0.0015

Uranus 102051-03-15 12:28 G 38994495.89 38994496.02 38994496.15 0.0141 0.0007

Uranus 102051-06-11 15:50 G 38994584.03 38994584.16 38994584.29 0.0141 0.0027

Uranus 102051-09-07 19:11 G 38994672.18 38994672.30 38994672.42 0.0141 0.0048

Uranus 102051-12-04 22:33 G 38994760.33 38994760.44 38994760.56 0.0142 0.0069

Jupiter 102052-03-01 02:09 G 38994847.47 38994847.59 38994847.72 0.0512 0.0065

Uranus 102052-03-02 01:54 G 38994848.48 38994848.58 38994848.68 0.0142 0.0089

Uranus 102052-05-29 05:16 G 38994936.64 38994936.72 38994936.81 0.0142 0.0110

Uranus 102052-08-25 08:38 G 38995024.82 38995024.86 38995024.91 0.0142 0.0131

Saturn 102053-02-16 10:04 G 38995199.85 38995199.92 38995199.99 0.0295 0.0241

Saturn 102053-05-15 21:50 G 38995288.29 38995288.41 38995288.54 0.0294 0.0075

Saturn 102053-08-12 09:35 G 38995376.78 38995376.90 38995377.02 0.0293 0.0089

Saturn 102053-11-08 21:06 G 38995465.32 38995465.38 38995465.45 0.0291 0.0250

Mars 102054-03-25 18:42 G 38995602.12 38995602.28 38995602.45 0.1920 0.0423

Mars 102055-01-24 02:52 G 38995906.53 38995906.62 38995906.72 0.1630 0.0958

Mars 102056-12-29 04:33 G 38996611.60 38996611.69 38996611.78 0.1613 0.0982

Earth 102058-03-12 04:18 G 38997049.62 38997049.68 38997049.74 0.2644 0.2148

Moon 102058-03-12 04:47 G 38997049.65 38997049.70 38997049.75 0.2640 0.2265 *

Jupiter 102058-04-20 00:14 G 38997088.33 38997088.51 38997088.69 0.0514 0.0157

Jupiter 102063-12-19 07:26 G 38999157.68 38999157.81 38999157.93 0.0512 0.0084

Mars 102064-06-15 14:23 G 38999337.05 38999337.10 38999337.15 0.1636 0.1440

Moon 102065-03-05 05:45 G 38999599.67 38999599.74 38999599.81 0.2654 0.2021

Earth 102065-03-05 05:59 G 38999599.68 38999599.75 38999599.81 0.2648 0.2042 *

Neptune 102065-10-08 07:40 G 38999816.77 38999816.82 38999816.91 0.0089 0.0084

Neptune 102066-01-04 11:30 G 38999904.88   38999904.98   38999905.11 0.0089 0.0073

Neptune 102066-04-02 15:35 G 38999993.01   38999993.15   38999993.30 0.0089 0.0062

Mars   102066-05-21 16:18 G 39000042.07   39000042.18   39000042.29 0.1617 0.0520

Neptune 102066-06-29 19:11 G 39000081.15   39000081.30   39000081.47 0.0090 0.0051

Neptune 102066-09-25 23:02 G 39000169.30   39000169.46   39000169.65 0.0090 0.0041

Neptune 102066-12-23 02:52 G 39000257.44   39000257.62   39000257.82 0.0090 0.0030

Neptune 102067-03-21 06:57 G 39000345.60   39000345.79   39000345.98 0.0090 0.0019

Neptune 102067-06-17 10:47 G 39000433.75   39000433.95   39000434.15 0.0090 0.0008

Neptune 102067-09-13 14:38 G 39000521.91   39000522.11   39000522.31 0.0090 0.0003

Neptune 102067-12-10 18:28 G 39000610.07   39000610.27   39000610.46 0.0090 0.0014

Neptune 102068-03-07 22:04 G 39000698.24   39000698.42   39000698.62 0.0090 0.0025

Neptune 102068-06-04 01:54 G 39000786.41   39000786.58   39000786.77 0.0090 0.0036

Neptune 102068-08-31 05:30 G 39000874.58   39000874.73   39000874.91 0.0090 0.0047

Neptune 102068-11-27 09:21 G 39000962.75   39000962.89   39000963.06 0.0090 0.0058

Saturn   102069-02-21 17:59 G 39001049.17   39001049.25   39001049.35 0.0267 0.0236

Neptune 102069-02-23 13:11 G 39001050.94   39001051.05   39001051.19 0.0090 0.0068

Saturn   102069-05-21 16:33 G 39001138.00   39001138.19   39001138.38 0.0268 0.0048

Neptune 102069-05-22 17:16 G 39001139.13   39001139.22   39001139.31 0.0090 0.0079

Saturn   102069-08-18 15:06 G 39001226.97   39001227.13   39001227.29 0.0269 0.0143

Jupiter 102070-02-05 20:38 G 39001398.25   39001398.36   39001398.49 0.0514 0.0390

Venus   102072-04-06 15:50 G 39002189.07   39002189.16   39002189.25 0.3731 0.3085

Earth   102074-09-10 22:18 G 39003076.28   39003076.43   39003076.59 0.2687 0.0825

Moon   102074-09-11 00:14 G 39003076.36   39003076.51   39003076.66 0.2688 0.1171 *

Jupiter 102075-10-07 11:59 G 39003467.89   39003468.00   39003468.11 0.0512 0.0243

Mars   102075-10-12 03:50 G 39003472.54   39003472.66   39003472.77 0.1621 0.0072

Jupiter 102076-01-04 15:35 G 39003557.07   39003557.15   39003557.24 0.0510 0.0380

Earth   102078-03-07 23:02 G 39004350.35   39004350.46   39004350.56 0.2647 0.0545

Moon   102078-03-07 23:30 G 39004350.37   39004350.48   39004350.58 0.2652 0.0539 *

Venus   102081-10-13 10:18 G 39005665.88   39005665.93   39005665.97 0.3650 0.3258

Jupiter 102082-02-23 08:38 G 39005798.73   39005798.86   39005798.99 0.0515 0.0366

Saturn 102082-10-02 22:47 G 39006020.34 39006020.45 39006020.56 0.0294 0.0142

Saturn 102082-12-30 10:33 G 39006108.81 39006108.94 39006109.07 0.0293 0.0023

Saturn 102083-03-28 22:04 G 39006197.33 39006197.42 39006197.52 0.0292 0.0186

Mars 102084-05-04 04:04 G 39006599.55 39006599.67 39006599.79 0.1927 0.1377

Mars 102085-03-03 15:21 G 39006903.03 39006903.14 39006903.25 0.1626 0.0427

Mars 102087-02-06 16:47 G 39007608.16 39007608.20 39007608.24 0.1609 0.1498

Venus 102087-04-29 01:26 G 39007689.47 39007689.56 39007689.65 0.3647 0.1453

Jupiter 102087-07-26 16:33 G 39007778.12 39007778.19 39007778.27 0.0513 0.0401

Jupiter 102087-10-23 20:23 G 39007867.24 39007867.35 39007867.46 0.0511 0.0226

Uranus 102090-07-28 11:59 G 39008875.93 39008876.00 39008876.08 0.0137 0.0125

Uranus 102090-10-24 19:54 G 39008964.19 39008964.33 39008964.46 0.0137 0.0097

Uranus 102091-01-21 03:21 G 39009052.48 39009052.64 39009052.82 0.0137 0.0070

Earth 102091-03-10 16:04 G 39009101.07 39009101.17 39009101.27 0.2645 0.0963

Moon 102091-03-10 16:33 G 39009101.09 39009101.19 39009101.29 0.2646 0.1121 *

Uranus 102091-04-19 11:16 G 39009140.79 39009140.97 39009141.16 0.0137 0.0042

Uranus 102091-07-16 19:11 G 39009229.10 39009229.30 39009229.49 0.0137 0.0014

Uranus 102091-10-13 02:52 G 39009317.43 39009317.62 39009317.81 0.0137 0.0015

Uranus 102092-01-09 10:33 G 39009405.76 39009405.94 39009406.13 0.0137 0.0043

Uranus 102092-04-06 18:14 G 39009494.10 39009494.26 39009494.43 0.0137 0.0071

Uranus 102092-07-04 01:54 G 39009582.46 39009582.58 39009582.72 0.0136 0.0099

Uranus 102092-09-30 09:35 G 39009670.84 39009670.90 39009670.99 0.0136 0.0126

Venus 102092-11-11 16:33 G 39009713.09 39009713.19 39009713.29 0.3645 0.0345

Mars 102093-09-23 19:54 G 39010029.17 39010029.33 39010029.50 0.1920 0.0270

Jupiter 102093-12-12 04:47 G 39010108.52 39010108.70 39010108.88 0.0515 0.0124

Mars 102094-07-25 02:52 G 39010333.52 39010333.62 39010333.72 0.1630 0.0903

Mars 102096-06-29 04:33 G 39011038.60 39011038.69 39011038.78 0.1613 0.1037

Venus 102098-05-28 07:26 G 39011736.73 39011736.81 39011736.90 0.3642 0.2096

Saturn 102098-10-08 14:09 G 39011869.92 39011870.09 39011870.27 0.0268 0.0111

Saturn 102099-01-05 12:42 G 39011958.85 39011959.03 39011959.22 0.0269 0.0080

Jupiter 102099-08-12 01:11 G 39012177.42 39012177.55 39012177.67 0.0512 0.0070

Mars 102103-12-16 14:23 G 39013764.04 39013764.10 39013764.16 0.1635 0.1384

Earth 102104-03-13 08:52 G 39013851.84 39013851.87 39013851.91 0.2644 0.2459

Moon 102104-03-13 09:35 G 39013851.87 39013851.90 39013851.93 0.2640 0.2512 *

Jupiter 102105-10-01 00:28 G 39014418.34 39014418.52 39014418.70 0.0514 0.0121

Mars 102105-11-20 16:04 G 39014469.06 39014469.17 39014469.28 0.1617 0.0573

Earth 102107-09-09 19:26 G 39015127.24 39015127.31 39015127.39 0.2685 0.2338

Moon 102107-09-09 21:06 G 39015127.27 39015127.38 39015127.49 0.2688 0.1966 *

Pluto 102109-01-08 16:47 G 39015614.18 39015614.20 39015614.23 0.0084 0.0082

Pluto 102109-04-06 17:59 G 39015702.17 39015702.25 39015702.34 0.0084 0.0063

Pluto 102109-07-03 19:11 G 39015790.19 39015790.30 39015790.42 0.0084 0.0044

Pluto 102109-09-29 20:38 G 39015878.23 39015878.36 39015878.49 0.0084 0.0025

Pluto 102109-12-26 21:50 G 39015966.27 39015966.41 39015966.54 0.0084 0.0006

Pluto 102110-03-24 23:02 G 39016054.33 39016054.46 39016054.59 0.0083 0.0013

Pluto 102110-06-20 23:59 G 39016142.39 39016142.50 39016142.63 0.0083 0.0032

Pluto 102110-09-17 01:11 G 39016230.45 39016230.55 39016230.67 0.0083 0.0051

Pluto 102110-12-14 02:38 G 39016318.54 39016318.61 39016318.68 0.0083 0.0069

Earth 102111-03-07 10:33 G 39016401.86 39016401.94 39016402.02 0.2648 0.1736

Moon 102111-03-07 10:33 G 39016401.87 39016401.94 39016402.02 0.2654 0.1768 *

Jupiter 102111-06-01 06:14 G 39016487.64 39016487.76 39016487.89 0.0512 0.0079

Saturn 102112-02-21 00:42 G 39016752.43 39016752.53 39016752.62 0.0294 0.0194

Saturn 102112-05-19 12:28 G 39016840.89 39016841.02 39016841.15 0.0293 0.0028

Saturn 102112-08-16 00:14 G 39016929.39 39016929.51 39016929.62 0.0292 0.0135

Mars 102115-04-13 03:50 G 39017899.54 39017899.66 39017899.77 0.1621 0.0118

Jupiter 102117-07-19 18:57 G 39018728.17 39018728.29 39018728.41 0.0513 0.0385

Earth 102120-09-12 05:16 G 39019878.59 39019878.72 39019878.85 0.2687 0.1550

Moon 102120-09-12 07:11 G 39019878.67 39019878.80 39019878.92 0.2687 0.1748 *

Jupiter 102123-03-20 11:16 G 39020797.86 39020797.97 39020798.09 0.0513 0.0227

Venus 102123-04-29 05:45 G 39020837.61 39020837.74 39020837.87 0.3728 0.2162

Jupiter 102123-06-17 14:52 G 39020887.05 39020887.12 39020887.20 0.0510 0.0396

Mars 102123-11-04 05:16 G 39021026.62 39021026.72 39021026.82 0.1928 0.1536

Earth 102124-03-09 03:35 G 39021152.55 39021152.65 39021152.76 0.2646 0.0244

Moon 102124-03-09 04:04 G 39021152.56 39021152.67 39021152.78 0.2652 0.0106 *

Mars 102124-09-02 15:21 G 39021330.03 39021330.14 39021330.25 0.1625 0.0369

Mars 102126-08-08 17:02 G 39022035.18 39022035.21 39022035.23 0.1608 0.1560

Saturn 102128-02-26 13:11 G 39022601.90 39022602.05 39022602.21 0.0268 0.0163

Saturn 102128-05-25 11:45 G 39022690.80 39022690.99 39022691.18 0.0268 0.0027

Saturn 102128-08-22 10:04 G 39022779.82 39022779.92 39022780.04 0.0269 0.0219

Jupiter 102129-08-06 06:14 G 39023128.63 39023128.76 39023128.90 0.0515 0.0361

Mars 102133-03-25 20:52 G 39024456.20 39024456.37 39024456.54 0.1920 0.0140

Uranus 102133-07-27 20:09 G 39024580.30 39024580.34 39024580.39 0.0141 0.0131

Uranus 102133-10-23 23:30 G 39024668.41 39024668.48 39024668.57 0.0141 0.0111

Uranus 102134-01-20 02:52 G 39024756.53 39024756.62 39024756.73 0.0141 0.0090

Mars 102134-01-24 02:52 G 39024760.52 39024760.62 39024760.72 0.1630 0.0849

Uranus 102134-04-18 06:28 G 39024844.66 39024844.77 39024844.88 0.0141 0.0069

Uranus 102134-07-15 09:50 G 39024932.79 39024932.91 39024933.03 0.0141 0.0049

Uranus 102134-10-11 13:11 G 39025020.92 39025021.05 39025021.18 0.0141 0.0028

Jupiter 102135-01-06 15:50 G 39025108.08 39025108.16 39025108.24 0.0513 0.0387

Uranus 102135-01-07 16:33 G 39025109.06 39025109.19 39025109.32 0.0141 0.0009

Uranus 102135-04-05 19:54 G 39025197.20 39025197.33 39025197.47 0.0141 0.0014

Jupiter 102135-04-05 19:40 G 39025197.21 39025197.32 39025197.43 0.0511 0.0239 *

Uranus 102135-07-02 23:16 G 39025285.35 39025285.47 39025285.60 0.0141 0.0035

Uranus 102135-09-29 02:52 G 39025373.50 39025373.62 39025373.74 0.0141 0.0055

Uranus 102135-12-26 06:14 G 39025461.65 39025461.76 39025461.87 0.0142 0.0075

Mars 102135-12-30 04:33 G 39025465.60 39025465.69 39025465.77 0.1612 0.1095

Uranus 102136-03-23 09:35 G 39025549.81 39025549.90 39025550.00 0.0142 0.0096

Uranus 102136-06-19 12:57 G 39025637.97 39025638.04 39025638.12 0.0142 0.0117

Uranus 102136-09-15 16:18 G 39025726.16 39025726.18 39025726.21 0.0142 0.0138

Earth 102137-03-11 20:38 G 39025903.27 39025903.36 39025903.46 0.2645 0.1265

Moon 102137-03-11 21:21 G 39025903.30 39025903.39 39025903.48 0.2644 0.1313 *

Venus 102138-05-21 07:40 G 39026338.75 39026338.82 39026338.89 0.3649 0.2627

Jupiter 102141-05-25 02:52 G 39027438.44 39027438.62 39027438.80 0.0515 0.0129

Saturn 102141-07-10 01:54 G 39027484.52 39027484.58 39027484.64 0.0295 0.0257

Saturn 102141-10-06 13:40 G 39027572.95 39027573.07 39027573.19 0.0294 0.0091

Saturn 102142-01-03 01:26 G 39027661.43 39027661.56 39027661.68 0.0293 0.0073

Saturn 102142-04-01 12:57 G 39027749.97 39027750.04 39027750.12 0.0292 0.0235

Mars 102142-08-15 12:28 G 39027885.97 39027886.02 39027886.08 0.1912 0.1784

Mars 102143-06-16 14:23 G 39028191.03 39028191.10 39028191.16 0.1635 0.1331

Venus 102143-12-04 22:47 G 39028362.35 39028362.45 39028362.55 0.3646 0.0847

Mars 102145-05-21 16:04 G 39028896.06 39028896.17 39028896.28 0.1617 0.0628

Neptune 102146-05-03 23:45 G 39029243.46 39029243.49 39029243.54 0.0088 0.0083

Neptune 102146-07-31 01:11 G 39029331.49 39029331.55 39029331.61 0.0088 0.0076

Neptune 102146-10-27 02:09 G 39029419.52 39029419.59 39029419.68 0.0088 0.0070

Jupiter 102147-01-23 00:14 G 39029507.39 39029507.51 39029507.64 0.0511 0.0085

Neptune 102147-01-23 03:21 G 39029507.56 39029507.64 39029507.75 0.0088 0.0063 *

Neptune 102147-04-21 04:47 G 39029595.61 39029595.70 39029595.81 0.0088 0.0056

Neptune 102147-07-18 05:59 G 39029683.65 39029683.75 39029683.87 0.0088 0.0049

Neptune 102147-10-14 07:26 G 39029771.70 39029771.81 39029771.93 0.0088 0.0042

Neptune 102148-01-10 08:38 G 39029859.74 39029859.86 39029859.98 0.0088 0.0035

Neptune 102148-04-07 09:50 G 39029947.79 39029947.91 39029948.04 0.0088 0.0028

Neptune 102148-07-04 11:02 G 39030035.84 39030035.96 39030036.09 0.0088 0.0022

Neptune 102148-09-30 12:28 G 39030123.89 39030124.02 39030124.15 0.0088 0.0015

Neptune 102148-12-27 13:40 G 39030211.94 39030212.07 39030212.20 0.0088 0.0008

Neptune 102149-03-25 14:52 G 39030299.99 39030300.12 39030300.25 0.0088 0.0002

Venus 102149-06-19 13:54 G 39030385.98 39030386.08 39030386.17 0.3644 0.0951

Neptune 102149-06-21 16:04 G 39030388.04 39030388.17 39030388.31 0.0088 0.0007

Neptune 102149-09-17 17:30 G 39030476.10 39030476.23 39030476.36 0.0088 0.0013

Neptune 102149-12-14 18:42 G 39030564.15 39030564.28 39030564.41 0.0088 0.0020

Neptune 102150-03-12 19:54 G 39030652.21 39030652.33 39030652.46 0.0088 0.0026

Neptune 102150-06-08 21:06 G 39030740.26 39030740.38 39030740.50 0.0088 0.0033

Neptune 102150-09-04 22:18 G 39030828.32 39030828.43 39030828.55 0.0088 0.0040

Neptune 102150-12-01 23:30 G 39030916.38 39030916.48 39030916.60 0.0088 0.0047

Neptune 102151-02-28 00:42 G 39031004.44 39031004.53 39031004.64 0.0088 0.0054

Neptune 102151-05-27 01:54 G 39031092.50 39031092.58 39031092.68 0.0088 0.0061

Neptune 102151-08-23 03:21 G 39031180.56 39031180.64 39031180.72 0.0088 0.0067

Neptune 102151-11-19 04:33 G 39031268.62 39031268.69 39031268.76 0.0088 0.0074

Neptune 102152-02-15 05:45 G 39031356.70 39031356.74 39031356.79 0.0088 0.0081

Neptune 102152-05-13 06:57 G 39031444.79 39031444.79 39031444.80 0.0088 0.0088

Jupiter 102153-03-12 23:02 G 39031748.28 39031748.46 39031748.64 0.0514 0.0112

Earth 102153-09-10 02:38 G 39031929.48 39031929.61 39031929.74 0.2685 0.1592

Moon 102153-09-10 04:18 G 39031929.55 39031929.68 39031929.82 0.2689 0.1456 *

Mars 102154-10-12 03:35 G 39032326.54 39032326.65 39032326.77 0.1621 0.0166

Venus 102155-01-03 04:47 G 39032409.64 39032409.70 39032409.77 0.3641 0.2693

Earth 102157-03-07 15:21 G 39033204.05 39033204.14 39033204.23 0.2647 0.1427

Moon 102157-03-07 15:35 G 39033204.06 39033204.15 39033204.24 0.2654 0.1396 *

Saturn 102157-07-15 11:30 G 39033333.87 39033333.98 39033334.08 0.0268 0.0223

Saturn 102157-10-12 09:50 G 39033422.72 39033422.91 39033423.10 0.0269 0.0034

Saturn 102158-01-09 08:09 G 39033511.69 39033511.84 39033512.00 0.0270 0.0158

Jupiter 102158-11-11 04:47 G 39033817.58 39033817.70 39033817.83 0.0512 0.0078

Mars 102163-05-05 05:45 G 39035453.66 39035453.74 39035453.83 0.1927 0.1654

Mars 102164-03-03 15:21 G 39035757.02 39035757.14 39035757.25 0.1626 0.0316

Jupiter 102164-12-29 18:42 G 39036058.15 39036058.28 39036058.41 0.0513 0.0356

Earth 102166-09-13 12:14 G 39036680.93 39036681.01 39036681.10 0.2687 0.2290

Moon 102166-09-13 14:09 G 39036681.07 39036681.09 39036681.10 0.2686 0.2664 *

Earth 102170-03-10 08:23 G 39037954.74 39037954.85 39037954.96 0.2646 0.0076

Moon 102170-03-10 08:52 G 39037954.76 39037954.87 39037954.98 0.2650 0.0110 *

Jupiter 102170-08-30 09:50 G 39038127.80 39038127.91 39038128.03 0.0513 0.0227

Jupiter 102170-11-27 13:26 G 39038216.99 39038217.06 39038217.14 0.0510 0.0398

Saturn 102171-02-23 15:50 G 39038305.05 39038305.16 39038305.28 0.0294 0.0138

Saturn 102171-05-23 03:50 G 39038393.53 39038393.66 39038393.78 0.0293 0.0029

Saturn 102171-08-19 15:21 G 39038482.04 39038482.14 39038482.24 0.0292 0.0190

Mars 102172-09-23 21:35 G 39038883.23 39038883.40 39038883.57 0.1921 0.0035

Mars 102173-07-25 02:52 G 39039187.52 39039187.62 39039187.72 0.1630 0.0788

Uranus 102174-08-18 19:54 G 39039577.23 39039577.33 39039577.43 0.0137 0.0116

Uranus 102174-11-15 03:35 G 39039665.50 39039665.65 39039665.80 0.0137 0.0088

Uranus 102175-02-11 11:02 G 39039753.80 39039753.96 39039754.15 0.0137 0.0061

Uranus 102175-05-10 18:57 G 39039842.11 39039842.29 39039842.49 0.0137 0.0033

Mars 102175-06-30 04:33 G 39039892.61 39039892.69 39039892.77 0.1612 0.1155

Uranus 102175-08-07 02:52 G 39039930.43 39039930.62 39039930.82 0.0137 0.0004

Uranus 102175-11-03 10:33 G 39040018.75 39040018.94 39040019.14 0.0137 0.0024

Uranus 102176-01-30 18:14 G 39040107.09 39040107.26 39040107.45 0.0137 0.0052

Uranus 102176-04-28 01:54 G 39040195.43 39040195.58 39040195.75 0.0137 0.0080

Uranus 102176-07-25 09:35 G 39040283.79 39040283.90 39040284.03 0.0136 0.0108

Uranus 102176-10-21 17:16 G 39040372.21 39040372.22 39040372.26 0.0136 0.0135

Jupiter 102177-01-16 04:04 G 39040458.53 39040458.67 39040458.80 0.0515 0.0358

Venus 102179-12-04 08:52 G 39041510.71 39041510.87 39041511.04 0.3729 0.0212

Mars 102182-02-13 13:40 G 39042312.99 39042313.07 39042313.16 0.1913 0.1634

Jupiter 102182-06-18 14:52 G 39042438.04 39042438.12 39042438.21 0.0513 0.0377

Jupiter 102182-09-15 18:42 G 39042527.17 39042527.28 39042527.39 0.0511 0.0250

Mars 102182-12-15 14:09 G 39042618.02 39042618.09 39042618.16 0.1635 0.1276

Earth 102183-03-13 01:26 G 39042705.47 39042705.56 39042705.64 0.2645 0.1571

Moon 102183-03-13 01:54 G 39042705.50 39042705.58 39042705.66 0.2644 0.1747 *

Mars 102184-11-19 16:04 G 39043323.07 39043323.17 39043323.28 0.1616 0.0689

Saturn 102187-03-01 09:21 G 39044154.71 39044154.89 39044155.07 0.0268 0.0082

Saturn 102187-05-29 07:40 G 39044243.65 39044243.82 39044244.00 0.0269 0.0109

Jupiter 102188-11-03 23:59 G 39044768.32 39044768.50 39044768.68 0.0515 0.0118

Earth 102190-03-06 03:06 G 39045255.62 39045255.63 39045255.64 0.2649 0.2621

Mars 102194-04-12 03:35 G 39046753.54 39046753.65 39046753.77 0.1621 0.0217

Jupiter 102194-07-04 23:16 G 39046837.34 39046837.47 39046837.59 0.0511 0.0092

Venus 102194-12-26 05:02 G 39047011.62 39047011.71 39047011.79 0.3648 0.2010

Earth 102199-09-11 09:35 G 39048731.74 39048731.90 39048732.05 0.2686 0.0870

Moon 102199-09-11 11:16 G 39048731.81 39048731.97 39048732.13 0.2689 0.0501 *

Venus 102200-07-11 20:09 G 39049035.23 39049035.34 39049035.44 0.3646 0.0271

Saturn 102200-07-13 17:30 G 39049037.14 39049037.23 39049037.33 0.0295 0.0195

Jupiter 102200-08-23 20:38 G 39049078.18 39049078.36 39049078.54 0.0514 0.0115

Saturn 102200-10-10 05:30 G 39049125.60 39049125.73 39049125.85 0.0294 0.0030

Saturn 102201-01-06 17:02 G 39049214.10 39049214.21 39049214.33 0.0293 0.0135

Mars 102202-11-04 06:57 G 39049880.73 39049880.79 39049880.85 0.1928 0.1805

Earth 102203-03-09 20:09 G 39050006.24 39050006.34 39050006.43 0.2647 0.1122

Moon 102203-03-09 20:23 G 39050006.25 39050006.35 39050006.44 0.2654 0.1092 *

Mars 102203-09-03 15:21 G 39050184.02 39050184.14 39050184.25 0.1625 0.0264

Venus 102206-01-25 11:02 G 39051058.87 39051058.96 39051059.05 0.3643 0.1555

Jupiter 102206-04-24 03:50 G 39051147.54 39051147.66 39051147.79 0.0512 0.0066

Venus 102211-08-11 02:09 G 39053082.55 39053082.59 39053082.63 0.3641 0.3298

Mars 102212-03-25 22:47 G 39053310.28 39053310.45 39053310.62 0.1920 0.0147

Jupiter 102212-06-11 16:47 G 39053388.07 39053388.20 39053388.33 0.0513 0.0353

Mars 102213-01-24 02:38 G 39053614.51 39053614.61 39053614.72 0.1630 0.0737

Mars 102214-12-30 04:33 G 39054319.61 39054319.69 39054319.76 0.1612 0.1212

Earth 102216-03-11 12:57 G 39054756.94 39054757.04 39054757.15 0.2646 0.0397

Moon 102216-03-11 13:40 G 39054756.96 39054757.07 39054757.17 0.2649 0.0502 *

Saturn 102216-07-19 07:54 G 39054886.67 39054886.83 39054887.00 0.0268 0.0137

Saturn 102216-10-16 06:28 G 39054975.58 39054975.77 39054975.96 0.0269 0.0054

Saturn 102217-01-13 05:02 G 39055064.64 39055064.71 39055064.79 0.0270 0.0246

Uranus 102217-08-18 03:21 G 39055281.59 39055281.64 39055281.71 0.0141 0.0126

Uranus 102217-11-14 06:57 G 39055369.71 39055369.79 39055369.88 0.0141 0.0105

Jupiter 102218-02-10 08:23 G 39055457.73 39055457.85 39055457.96 0.0513 0.0229

Uranus 102218-02-10 10:18 G 39055457.83 39055457.93 39055458.04 0.0141 0.0085 *

Uranus 102218-05-09 13:40 G 39055545.96 39055546.07 39055546.19 0.0141 0.0064

Jupiter 102218-05-10 11:59 G 39055546.92 39055547.00 39055547.08 0.0510 0.0394

Uranus 102218-08-05 17:16 G 39055634.09 39055634.22 39055634.34 0.0141 0.0044

Uranus 102218-11-01 20:38 G 39055722.23 39055722.36 39055722.49 0.0141 0.0023

Uranus 102219-01-28 23:59 G 39055810.37 39055810.50 39055810.63 0.0141 0.0002

Uranus 102219-04-27 03:21 G 39055898.51 39055898.64 39055898.77 0.0141 0.0019

Uranus 102219-07-24 06:42 G 39055986.66 39055986.78 39055986.91 0.0141 0.0039

Uranus 102219-10-20 10:04 G 39056074.81 39056074.92 39056075.04 0.0142 0.0060

Uranus 102220-01-16 13:26 G 39056162.96 39056163.06 39056163.17 0.0142 0.0081

Uranus 102220-04-13 16:47 G 39056251.12 39056251.20 39056251.30 0.0142 0.0102

Uranus 102220-07-10 20:23 G 39056339.28 39056339.35 39056339.41 0.0142 0.0122

Mars 102221-08-15 14:09 G 39056739.99 39056740.09 39056740.19 0.1913 0.1525

Mars 102222-06-16 14:23 G 39057045.02 39057045.10 39057045.17 0.1635 0.1217

Mars 102224-05-21 16:04 G 39057750.06 39057750.17 39057750.27 0.1616 0.0745

Jupiter 102224-06-29 03:06 G 39057788.52 39057788.63 39057788.76 0.0515 0.0381

Earth 102229-03-14 05:59 G 39059507.68 39059507.75 39059507.83 0.2645 0.1879

Moon 102229-03-14 06:42 G 39059507.71 39059507.78 39059507.85 0.2643 0.1932 *

Jupiter 102229-11-29 13:11 G 39059767.97 39059768.05 39059768.14 0.0513 0.0381

Saturn 102229-11-30 20:09 G 39059769.27 39059769.34 39059769.42 0.0294 0.0237

Jupiter 102230-02-26 17:02 G 39059857.10 39059857.21 39059857.32 0.0511 0.0246

Saturn 102230-02-27 08:09 G 39059857.71 39059857.84 39059857.96 0.0293 0.0072

Saturn 102230-05-26 19:40 G 39059946.20 39059946.32 39059946.45 0.0292 0.0093

Neptune 102230-07-07 05:59 G 39059987.67 39059987.75 39059987.84 0.0090 0.0080

Saturn 102230-08-23 07:11 G 39060034.75 39060034.80 39060034.87 0.0291 0.0255

Neptune 102230-10-03 09:21 G 39060075.79 39060075.89 39060076.03 0.0090 0.0070

Neptune 102230-12-30 13:11 G 39060163.92 39060164.05 39060164.22 0.0090 0.0059

Neptune 102231-03-28 17:16 G 39060252.06 39060252.22 39060252.39 0.0090 0.0048

Neptune 102231-06-24 21:06 G 39060340.20 39060340.38 39060340.56 0.0090 0.0037

Neptune 102231-09-21 00:42 G 39060428.35 39060428.53 39060428.73 0.0090 0.0027

Neptune 102231-12-18 04:47 G 39060516.51 39060516.70 39060516.90 0.0090 0.0015

Neptune 102232-03-15 08:38 G 39060604.66 39060604.86 39060605.06 0.0090 0.0005

Neptune 102232-06-11 12:28 G 39060692.82 39060693.02 39060693.22 0.0090 0.0006

Neptune 102232-09-07 16:04 G 39060780.98 39060781.17 39060781.37 0.0090 0.0017

Neptune 102232-12-04 19:54 G 39060869.15 39060869.33 39060869.52 0.0090 0.0028

Neptune 102233-03-02 23:45 G 39060957.32   39060957.49   39060957.67 0.0090 0.0039

Neptune 102233-05-30 03:21 G 39061045.49   39061045.64   39061045.82 0.0090 0.0050

Neptune 102233-08-26 07:11 G 39061133.67   39061133.80   39061133.96 0.0090 0.0061

Mars   102233-10-12 03:35 G 39061180.54   39061180.65   39061180.77 0.1621 0.0279

Neptune 102233-11-22 10:47 G 39061221.85   39061221.95   39061222.09 0.0090 0.0072

Neptune 102234-02-18 15:06 G 39061310.06   39061310.13   39061310.21 0.0090 0.0082

Moon   102236-03-07 07:40 G 39062057.77   39062057.82   39062057.87 0.2655 0.2312

Earth   102236-03-07 07:40 G 39062057.77   39062057.82   39062057.87 0.2648 0.2314 *

Jupiter 102236-04-16 21:21 G 39062098.21   39062098.39   39062098.58 0.0514 0.0112

Venus   102236-07-11 11:59 G 39062183.88   39062184.00   39062184.12 0.3730 0.2516

Jupiter 102241-12-15 22:04 G 39064167.29   39064167.42   39064167.54 0.0512 0.0097

Mars   102243-03-04 15:06 G 39064611.02   39064611.13   39064611.25 0.1625 0.0203

Earth   102245-09-12 16:33 G 39065534.03   39065534.19   39065534.35 0.2686 0.0132

Moon   102245-09-12 18:14 G 39065534.10   39065534.26   39065534.43 0.2688 0.0093 *

Saturn   102245-12-06 08:09 G 39065618.70   39065618.84   39065618.98 0.0268 0.0180

Venus   102246-01-17 11:02 G 39065660.92   39065660.96   39065661.01 0.3650 0.3182

Saturn   102246-03-05 06:42 G 39065707.58   39065707.78   39065707.97 0.0269 0.0011

Saturn   102246-06-02 05:02 G 39065796.59   39065796.71   39065796.84 0.0269 0.0202

Jupiter 102248-02-03 17:30 G 39066408.05   39066408.23   39066408.41 0.0514 0.0131

Earth   102249-03-10 00:42 G 39066808.43   39066808.53   39066808.64 0.2647 0.0817

Moon   102249-03-10 00:57 G 39066808.44   39066808.54   39066808.65 0.2654 0.0796 *

Venus   102251-08-03 02:09 G 39067684.50   39067684.59   39067684.69 0.3648 0.1391

Mars   102251-09-24 23:45 G 39067737.32   39067737.49   39067737.65 0.1921 0.0287

Mars   102252-07-25 02:38 G 39068041.51   39068041.61   39068041.72 0.1630 0.0679

Jupiter 102253-10-04 02:38 G 39068477.48   39068477.61   39068477.73 0.0512 0.0065

Mars   102254-06-30 04:18 G 39068746.61   39068746.68   39068746.75 0.1612 0.1271

Venus   102257-02-15 17:16 G 39069708.12   39069708.22   39069708.33 0.3645 0.0432

Uranus   102258-06-12 19:40 G 39070190.30   39070190.32   39070190.36 0.0137 0.0135

Uranus   102258-09-09 03:35 G 39070278.53   39070278.65   39070278.77 0.0137 0.0107

Uranus   102258-12-06 11:16 G 39070366.82   39070366.97   39070367.14 0.0137 0.0079

Uranus 102259-03-04 19:11 G 39070455.12 39070455.30 39070455.48 0.0137 0.0051

Saturn 102259-04-19 22:18 G 39070501.41 39070501.43 39070501.46 0.0295 0.0288

Uranus 102259-06-01 02:52 G 39070543.43 39070543.62 39070543.82 0.0137 0.0023

Saturn 102259-07-17 10:18 G 39070589.81 39070589.93 39070590.04 0.0294 0.0121

Uranus 102259-08-28 10:47 G 39070631.75 39070631.95 39070632.14 0.0137 0.0005

Saturn 102259-10-13 22:04 G 39070678.29 39070678.42 39070678.54 0.0293 0.0044

Jupiter 102259-11-22 13:54 G 39070717.95 39070718.08 39070718.21 0.0513 0.0364

Uranus 102259-11-24 18:28 G 39070720.08 39070720.27 39070720.46 0.0137 0.0033

Saturn 102260-01-10 09:35 G 39070766.81 39070766.90 39070766.99 0.0292 0.0206

Uranus 102260-02-21 02:09 G 39070808.42 39070808.59 39070808.77 0.0137 0.0061

Uranus 102260-05-19 09:50 G 39070896.77 39070896.91 39070897.07 0.0137 0.0089

Uranus 102260-08-15 17:30 G 39070985.14 39070985.23 39070985.34 0.0137 0.0117

Mars 102261-02-13 15:35 G 39071167.03 39071167.15 39071167.26 0.1913 0.1365

Mars 102261-12-15 14:09 G 39071472.01 39071472.09 39071472.17 0.1635 0.1163

Earth 102262-03-12 17:45 G 39071559.14 39071559.24 39071559.35 0.2646 0.0686

Moon 102262-03-12 18:28 G 39071559.17 39071559.27 39071559.37 0.2647 0.0794 *

Pluto 102262-07-31 10:04 G 39071699.87 39071699.92 39071700.03 0.0060 0.0055

Venus 102262-09-01 08:23 G 39071731.77 39071731.85 39071731.93 0.3642 0.2164

Pluto 102262-10-27 11:30 G 39071787.87 39071787.98 39071788.13 0.0060 0.0045

Pluto 102263-01-23 12:42 G 39071875.90 39071876.03 39071876.21 0.0060 0.0035

Pluto 102263-04-21 14:09 G 39071963.93 39071964.09 39071964.28 0.0060 0.0025

Pluto 102263-07-18 15:35 G 39072051.97 39072052.15 39072052.35 0.0060 0.0015

Pluto 102263-10-14 17:02 G 39072140.02 39072140.21 39072140.41 0.0060 0.0005

Mars 102263-11-20 16:04 G 39072177.07 39072177.17 39072177.27 0.1616 0.0805

Pluto 102264-01-10 18:14 G 39072228.08 39072228.26 39072228.46 0.0060 0.0006

Pluto 102264-04-07 19:26 G 39072316.14 39072316.31 39072316.51 0.0060 0.0015

Pluto 102264-07-04 20:38 G 39072404.20 39072404.36 39072404.55 0.0060 0.0026

Pluto 102264-09-30 21:50 G 39072492.27 39072492.41 39072492.58 0.0060 0.0036

Pluto 102264-12-27 23:02 G 39072580.36 39072580.46 39072580.61 0.0060 0.0046

Pluto 102265-03-26 00:28 G 39072668.46 39072668.52 39072668.61 0.0061 0.0056

Jupiter 102265-07-23 07:11 G 39072787.68 39072787.80 39072787.91 0.0513 0.0223

Jupiter 102265-10-20 10:47 G 39072876.87 39072876.95 39072877.03 0.0510 0.0398

Jupiter 102271-12-10 00:57 G 39075118.41 39075118.54 39075118.67 0.0515 0.0376

Mars 102273-04-12 03:35 G 39075607.53 39075607.65 39075607.76 0.1621 0.0333

Earth 102275-03-15 10:47 G 39076309.89 39076309.95 39076310.01 0.2645 0.2187

Moon 102275-03-15 11:16 G 39076309.93 39076309.97 39076310.02 0.2642 0.2333 *

Saturn 102275-04-25 07:11 G 39076350.72 39076350.80 39076350.90 0.0268 0.0232

Saturn 102275-07-23 05:45 G 39076439.55 39076439.74 39076439.93 0.0269 0.0042

Saturn 102275-10-20 04:18 G 39076528.52 39076528.68 39076528.84 0.0270 0.0150

Jupiter 102277-05-11 11:30 G 39077097.90 39077097.98 39077098.06 0.0513 0.0388

Jupiter 102277-08-08 15:21 G 39077187.03 39077187.14 39077187.25 0.0511 0.0239

Moon 102282-03-08 12:28 G 39078859.95 39078860.02 39078860.08 0.2655 0.2083

Earth 102282-03-08 12:28 G 39078859.95 39078860.02 39078860.09 0.2648 0.2005 *

Mars 102282-09-02 15:06 G 39079038.02 39079038.13 39079038.25 0.1625 0.0144

Jupiter 102283-09-27 20:23 G 39079428.17 39079428.35 39079428.53 0.0514 0.0125

Venus 102287-08-02 02:23 G 39080832.48 39080832.60 39080832.71 0.3727 0.2642

Saturn 102288-12-03 13:11 G 39081321.94 39081322.05 39081322.16 0.0294 0.0159

Saturn 102289-03-02 00:57 G 39081410.41 39081410.54 39081410.67 0.0293 0.0007

Jupiter 102289-05-27 20:09 G 39081497.22 39081497.34 39081497.47 0.0512 0.0088

Saturn 102289-05-29 12:42 G 39081498.92 39081499.03 39081499.13 0.0292 0.0169

Mars 102291-03-26 00:28 G 39082164.36 39082164.52 39082164.69 0.1921 0.0422

Earth 102291-09-13 23:30 G 39082336.32 39082336.48 39082336.64 0.2686 0.0595

Moon 102291-09-14 01:26 G 39082336.40 39082336.56 39082336.71 0.2686 0.0918 *

Mars 102292-01-24 02:38 G 39082468.51 39082468.61 39082468.72 0.1630 0.0620

Mars 102293-12-29 04:18 G 39083173.62 39083173.68 39083173.75 0.1612 0.1332

Earth 102295-03-11 05:30 G 39083610.62 39083610.73 39083610.84 0.2647 0.0505

Moon 102295-03-11 05:45 G 39083610.64 39083610.74 39083610.85 0.2652 0.0423 *

Jupiter 102295-07-16 14:38 G 39083737.93 39083738.11 39083738.29 0.0513 0.0142

Mars 102300-08-15 16:33 G 39085594.06 39085594.19 39085594.32 0.1913 0.1223

Jupiter 102301-03-17 00:57 G 39085807.42 39085807.54 39085807.67 0.0513 0.0067

Uranus 102301-06-12 07:26 G 39085894.81 39085894.81 39085894.82 0.0141 0.0141

Mars 102301-06-16 14:09 G 39085899.01 39085899.09 39085899.17 0.1635 0.1106

Uranus 102301-09-08 11:02 G 39085982.89 39085982.96 39085983.02 0.0141 0.0120

Uranus 102301-12-05 14:09 G 39086071.01 39086071.09 39086071.19 0.0141 0.0100

Uranus 102302-03-03 17:45 G 39086159.13 39086159.24 39086159.35 0.0141 0.0079

Uranus 102302-05-30 21:06 G 39086247.26 39086247.38 39086247.50 0.0141 0.0059

Venus 102302-08-25 08:23 G 39086333.78 39086333.85 39086333.93 0.3649 0.2552

Uranus 102302-08-27 00:28 G 39086335.39 39086335.52 39086335.65 0.0141 0.0038

Uranus 102302-11-23 03:50 G 39086423.53 39086423.66 39086423.79 0.0141 0.0018

Uranus 102303-02-19 07:11 G 39086511.67 39086511.80 39086511.93 0.0141 0.0004

Uranus 102303-05-18 10:33 G 39086599.81 39086599.94 39086600.07 0.0141 0.0024

Mars 102303-05-22 16:04 G 39086604.07 39086604.17 39086604.26 0.1616 0.0865

Uranus 102303-08-14 13:54 G 39086687.96 39086688.08 39086688.21 0.0141 0.0044

Uranus 102303-11-10 17:30 G 39086776.11 39086776.23 39086776.34 0.0141 0.0065

Uranus 102304-02-06 20:38 G 39086864.26 39086864.36 39086864.47 0.0142 0.0086

Uranus 102304-05-05 00:14 G 39086952.42 39086952.51 39086952.59 0.0142 0.0106

Uranus 102304-08-01 03:35 G 39087040.59 39087040.65 39087040.71 0.0142 0.0127

Saturn 102304-12-10 06:28 G 39087171.59 39087171.77 39087171.96 0.0268 0.0081

Saturn 102305-03-09 05:02 G 39087260.54 39087260.71 39087260.89 0.0269 0.0111

Jupiter 102307-05-05 10:18 G 39088047.82 39088047.93 39088048.06 0.0513 0.0384

Venus 102308-03-09 23:30 G 39088357.39 39088357.48 39088357.58 0.3647 0.0776

Earth 102308-03-13 22:33 G 39088361.34 39088361.44 39088361.54 0.2646 0.0997

Moon 102308-03-13 23:16 G 39088361.37 39088361.47 39088361.56 0.2647 0.1106 *

Mars 102310-11-07 01:40 G 39089329.55 39089329.57 39089329.59 0.1640 0.1596

Neptune 102311-01-30 23:02 G 39089414.43 39089414.46 39089414.52 0.0088 0.0082

Neptune 102311-04-29 00:14 G 39089502.46 39089502.51 39089502.59 0.0088 0.0075

Neptune 102311-07-26 01:40 G 39089590.49 39089590.57 39089590.66 0.0088 0.0068

Neptune 102311-10-22 02:52 G 39089678.54 39089678.62 39089678.72 0.0088 0.0061

Neptune 102312-01-18 04:18 G 39089766.58 39089766.68 39089766.78 0.0088 0.0054

Neptune 102312-04-15 05:30 G 39089854.62 39089854.73 39089854.84 0.0088 0.0047

Neptune 102312-07-12 06:57 G 39089942.67   39089942.79   39089942.90 0.0088 0.0040

Neptune 102312-10-08 07:54 G 39090030.72   39090030.83   39090030.96 0.0088 0.0034

Mars   102312-10-12 03:35 G 39090034.53   39090034.65   39090034.76 0.1620 0.0393

Jupiter 102313-01-03 05:30 G 39090117.62   39090117.73   39090117.84 0.0513 0.0226

Neptune 102313-01-04 09:06 G 39090118.76   39090118.88   39090119.02 0.0088 0.0027

Jupiter 102313-04-02 09:06 G 39090206.80   39090206.88   39090206.96 0.0510 0.0396

Neptune 102313-04-02 10:33 G 39090206.81   39090206.94   39090207.07 0.0088 0.0020 *

Neptune 102313-06-29 11:45 G 39090294.86   39090294.99   39090295.12 0.0088 0.0013

Venus   102313-09-23 14:38 G 39090381.02   39090381.11   39090381.21 0.3644 0.1027

Neptune 102313-09-25 13:11 G 39090382.92   39090383.05   39090383.18 0.0088 0.0006

Neptune 102313-12-22 14:23 G 39090470.97   39090471.10   39090471.23 0.0088 0.0001

Neptune 102314-03-20 15:35 G 39090559.02   39090559.15   39090559.28 0.0088 0.0008

Neptune 102314-06-16 16:47 G 39090647.07   39090647.20   39090647.33 0.0088 0.0015

Neptune 102314-09-12 17:59 G 39090735.13   39090735.25   39090735.38 0.0088 0.0022

Neptune 102314-12-09 19:26 G 39090823.18   39090823.31   39090823.43 0.0088 0.0028

Neptune 102315-03-07 20:38 G 39090911.24   39090911.36   39090911.48 0.0088 0.0035

Neptune 102315-06-03 21:50 G 39090999.30   39090999.41   39090999.53 0.0088 0.0042

Neptune 102315-08-30 23:02 G 39091087.36   39091087.46   39091087.57 0.0088 0.0049

Neptune 102315-11-27 00:14 G 39091175.42   39091175.51   39091175.62 0.0088 0.0056

Neptune 102316-02-23 01:26 G 39091263.48   39091263.56   39091263.66 0.0088 0.0062

Neptune 102316-05-21 02:52 G 39091351.54   39091351.62   39091351.70 0.0088 0.0069

Neptune 102316-08-17 03:50 G 39091439.61   39091439.66   39091439.74 0.0088 0.0076

Neptune 102316-11-13 05:02 G 39091527.68   39091527.71   39091527.77 0.0088 0.0083

Saturn   102318-04-23 15:50 G 39092054.07   39092054.16   39092054.25 0.0294 0.0203

Saturn   102318-07-21 03:35 G 39092142.52   39092142.65   39092142.78 0.0294 0.0037

Saturn   102318-10-17 15:21 G 39092231.02   39092231.14   39092231.25 0.0293 0.0126

Saturn   102319-01-14 02:52 G 39092319.60   39092319.62   39092319.64 0.0292 0.0287

Venus   102319-04-09 05:45 G 39092404.68   39092404.74   39092404.80 0.3642 0.2769

Jupiter 102319-05-22 21:35 G 39092448.27   39092448.40   39092448.54 0.0515 0.0360

Earth   102321-03-16 15:35 G 39093112.12   39093112.15   39093112.18 0.2644 0.2495

Moon 102321-03-16 16:04 G 39093112.15 39093112.17 39093112.19 0.2641 0.2556 *

Mars 102322-03-04 15:06 G 39093465.01 39093465.13 39093465.25 0.1625 0.0085

Earth 102324-09-11 20:52 G 39094387.32 39094387.37 39094387.42 0.2685 0.2545

Moon 102324-09-11 22:18 G 39094387.36 39094387.43 39094387.50 0.2689 0.2386 *

Jupiter 102324-10-22 10:04 G 39094427.84 39094427.92 39094428.00 0.0513 0.0387

Jupiter 102325-01-19 13:40 G 39094516.96 39094517.07 39094517.19 0.0511 0.0240

Moon 102328-03-09 17:16 G 39095662.13 39095662.22 39095662.30 0.2655 0.1651

Earth 102328-03-09 17:16 G 39095662.14 39095662.22 39095662.30 0.2648 0.1697 *

Mars 102330-09-25 01:40 G 39096591.41 39096591.57 39096591.73 0.1921 0.0572

Jupiter 102331-03-10 17:30 G 39096758.05 39096758.23 39096758.42 0.0514 0.0116

Mars 102331-07-26 02:38 G 39096895.50 39096895.61 39096895.72 0.1630 0.0564

Mars 102333-06-30 04:18 G 39097600.63 39097600.68 39097600.74 0.1612 0.1387

Saturn 102334-04-29 05:45 G 39097903.58 39097903.74 39097903.92 0.0268 0.0131

Saturn 102334-07-27 04:18 G 39097992.50 39097992.68 39097992.87 0.0269 0.0062

Saturn 102334-10-24 03:06 G 39098081.57 39098081.63 39098081.69 0.0270 0.0255

Jupiter 102336-11-07 18:14 G 39098827.14 39098827.26 39098827.39 0.0512 0.0077

Earth 102337-09-15 06:42 G 39099138.64 39099138.78 39099138.92 0.2687 0.1349

Moon 102337-09-15 08:38 G 39099138.73 39099138.86 39099138.99 0.2686 0.1632 *

Mars 102340-02-14 17:16 G 39100021.08 39100021.22 39100021.35 0.1913 0.1105

Mars 102340-12-15 14:09 G 39100326.00 39100326.09 39100326.18 0.1635 0.1048

Earth 102341-03-12 10:18 G 39100412.82 39100412.93 39100413.03 0.2647 0.0222

Moon 102341-03-12 10:47 G 39100412.84 39100412.95 39100413.05 0.2651 0.0198 *

Uranus 102342-07-04 02:09 G 39100891.55 39100891.59 39100891.67 0.0137 0.0131

Uranus 102342-09-30 10:04 G 39100979.80 39100979.92 39100980.06 0.0137 0.0102

Mars 102342-11-20 15:50 G 39101031.07 39101031.16 39101031.26 0.1616 0.0921

Jupiter 102342-12-27 12:57 G 39101067.86 39101068.04 39101068.22 0.0514 0.0134

Uranus 102342-12-27 17:59 G 39101068.09 39101068.25 39101068.42 0.0137 0.0074 *

Uranus 102343-03-26 01:40 G 39101156.40 39101156.57 39101156.77 0.0137 0.0046

Uranus 102343-06-22 09:35 G 39101244.71 39101244.90 39101245.10 0.0137 0.0018

Uranus 102343-09-18 17:30 G 39101333.03 39101333.23 39101333.42 0.0137 0.0010

Uranus 102343-12-16 01:11 G 39101421.37 39101421.55 39101421.74 0.0137 0.0039

Venus 102344-03-09 05:16 G 39101505.56 39101505.72 39101505.89 0.3728 0.0346

Uranus 102344-03-13 08:52 G 39101509.71 39101509.87 39101510.05 0.0137 0.0067

Uranus 102344-06-09 16:33 G 39101598.06 39101598.19 39101598.34 0.0137 0.0095

Uranus 102344-09-06 00:14 G 39101686.44 39101686.51 39101686.61 0.0137 0.0123

Saturn 102347-09-10 18:57 G 39102786.22 39102786.29 39102786.36 0.0294 0.0239

Saturn 102347-12-08 06:42 G 39102874.66 39102874.78 39102874.91 0.0293 0.0073

Saturn 102348-03-05 18:28 G 39102963.15 39102963.27 39102963.39 0.0292 0.0091

Saturn 102348-06-02 05:59 G 39103051.69 39103051.75 39103051.82 0.0291 0.0253

Jupiter 102348-08-26 23:02 G 39103137.34 39103137.46 39103137.59 0.0513 0.0077

Mars 102350-05-08 01:40 G 39103756.53 39103756.57 39103756.61 0.1640 0.1538

Mars 102352-04-12 03:35 G 39104461.54 39104461.65 39104461.76 0.1620 0.0452

Earth 102354-03-15 03:06 G 39105163.54 39105163.63 39105163.73 0.2645 0.1308

Moon 102354-03-15 03:50 G 39105163.57 39105163.66 39105163.75 0.2647 0.1440 *

Jupiter 102354-10-15 07:26 G 39105377.70 39105377.81 39105377.93 0.0513 0.0396

Pluto 102357-05-05 00:14 G 39106310.50 39106310.51 39106310.55 0.0084 0.0082

Pluto 102357-08-01 01:40 G 39106398.49 39106398.57 39106398.66 0.0084 0.0063

Pluto 102357-10-28 02:52 G 39106486.51 39106486.62 39106486.74 0.0084 0.0044

Pluto 102358-01-24 04:04 G 39106574.55 39106574.67 39106574.81 0.0084 0.0025

Pluto 102358-04-22 05:30 G 39106662.59 39106662.73 39106662.86 0.0084 0.0006

Pluto 102358-07-19 06:42 G 39106750.65 39106750.78 39106750.91 0.0083 0.0013

Pluto 102358-10-15 07:40 G 39106838.71 39106838.82 39106838.95 0.0083 0.0033

Pluto 102359-01-11 08:52 G 39106926.77 39106926.87 39106926.99 0.0083 0.0051

Venus 102359-04-01 05:45 G 39107006.66 39107006.74 39107006.83 0.3649 0.1925

Pluto 102359-04-09 10:18 G 39107014.86 39107014.93 39107015.00 0.0083 0.0069

Jupiter 102360-06-15 03:50 G 39107447.55 39107447.66 39107447.77 0.0513 0.0232

Jupiter 102360-09-12 07:40 G 39107536.74 39107536.82 39107536.89 0.0511 0.0392

Mars 102361-09-02 15:06 G 39107892.01 39107892.13 39107892.24 0.1625 0.0033

Saturn 102363-09-16 06:42 G 39108635.64 39108635.78 39108635.94 0.0268 0.0168

Saturn 102363-12-14 05:16 G 39108724.53 39108724.72 39108724.92 0.0269 0.0025

Saturn 102364-03-12 03:50 G 39108813.56 39108813.66 39108813.78 0.0270 0.0217

Venus 102364-10-14 20:52 G 39109030.27 39109030.37 39109030.48 0.3646 0.0194

Jupiter 102366-11-01 17:59 G 39109778.11 39109778.25 39109778.39 0.0515 0.0335

Mars 102370-03-26 02:23 G 39111018.45 39111018.60 39111018.76 0.1921 0.0707

Venus 102370-04-30 11:59 G 39111053.91 39111054.00 39111054.09 0.3644 0.1629

Earth 102370-09-13 03:49 G 39111189.54 39111189.66 39111189.78 0.2685 0.1814

Moon 102370-09-13 05:30 G 39111189.59 39111189.73 39111189.86 0.2688 0.1482 *

Mars 102371-01-24 02:37 G 39111322.50 39111322.61 39111322.72 0.1630 0.0509

Jupiter 102372-04-03 08:09 G 39111757.76 39111757.84 39111757.92 0.0514 0.0395

Jupiter 102372-07-01 11:59 G 39111846.89 39111847.00 39111847.12 0.0511 0.0232

Mars 102372-12-29 04:18 G 39112027.63 39112027.68 39112027.73 0.1612 0.1446

Earth 102374-03-10 21:49 G 39112464.32 39112464.41 39112464.51 0.2648 0.1394

Moon 102374-03-10 22:04 G 39112464.33 39112464.42 39112464.51 0.2654 0.1450 *

Venus 102375-11-14 03:06 G 39113077.59 39113077.63 39113077.66 0.3641 0.3367

Saturn 102377-01-27 21:49 G 39113518.38 39113518.41 39113518.46 0.0295 0.0278

Saturn 102377-04-26 09:49 G 39113606.79 39113606.91 39113607.03 0.0294 0.0111

Saturn 102377-07-23 21:35 G 39113695.27 39113695.40 39113695.53 0.0293 0.0053

Saturn 102377-10-20 09:06 G 39113783.80 39113783.88 39113783.97 0.0292 0.0215

Jupiter 102378-08-20 14:09 G 39114087.91 39114088.09 39114088.27 0.0514 0.0095

Mars 102379-08-15 18:13 G 39114448.12 39114448.26 39114448.41 0.1914 0.0951

Mars 102380-06-15 14:09 G 39114753.00 39114753.09 39114753.18 0.1635 0.0993

Mars 102382-05-21 15:49 G 39115458.07 39115458.16 39115458.25 0.1616 0.0978

Earth 102383-09-16 13:40 G 39115940.97 39115941.07 39115941.17 0.2687 0.2086

Moon 102383-09-16 15:35 G 39115941.08 39115941.15 39115941.23 0.2686 0.2368 *

Jupiter 102384-04-19 16:47 G 39116157.07 39116157.20 39116157.32 0.0512 0.0076

Uranus 102385-07-02 14:52 G 39116596.09 39116596.12 39116596.16 0.0141 0.0135

Uranus 102385-09-28 18:13 G 39116684.19 39116684.26 39116684.34 0.0141 0.0115

Uranus 102385-12-25 21:35 G 39116772.31 39116772.40 39116772.50 0.0141 0.0094

Uranus 102386-03-24 00:57 G 39116860.43 39116860.54 39116860.66 0.0141 0.0074

Uranus 102386-06-20 04:18 G 39116948.57 39116948.68 39116948.81 0.0141 0.0054

Uranus 102386-09-16 07:54 G 39117036.70 39117036.83 39117036.95 0.0141 0.0033

Uranus 102386-12-13 11:16 G 39117124.84 39117124.97 39117125.10 0.0141 0.0013

Uranus 102387-03-11 14:37 G 39117212.98 39117213.11 39117213.24 0.0141 0.0008

Earth 102387-03-13 14:52 G 39117215.01 39117215.12 39117215.23 0.2646 0.0122

Moon 102387-03-13 15:35 G 39117215.04 39117215.15 39117215.25 0.2650 0.0292 *

Uranus 102387-06-07 17:59 G 39117301.12 39117301.25 39117301.38 0.0141 0.0029

Uranus 102387-09-03 21:21 G 39117389.27 39117389.39 39117389.51 0.0141 0.0049

Uranus 102387-12-01 00:42 G 39117477.42 39117477.53 39117477.64 0.0141 0.0070

Uranus 102388-02-27 04:04 G 39117565.57 39117565.67 39117565.77 0.0141 0.0090

Uranus 102388-05-25 07:25 G 39117653.73 39117653.81 39117653.89 0.0142 0.0111

Uranus 102388-08-21 10:47 G 39117741.91 39117741.95 39117742.00 0.0142 0.0132

Mars 102389-11-06 01:40 G 39118183.52 39118183.57 39118183.61 0.1640 0.1483

Jupiter 102390-06-08 10:04 G 39118397.74 39118397.92 39118398.10 0.0514 0.0147

Mars 102391-10-12 03:21 G 39118888.53 39118888.64 39118888.75 0.1620 0.0510

Saturn 102393-02-02 06:13 G 39119367.66 39119367.76 39119367.89 0.0268 0.0215

Saturn 102393-05-02 05:01 G 39119456.52 39119456.71 39119456.90 0.0269 0.0025

Saturn 102393-07-30 03:21 G 39119545.50 39119545.64 39119545.80 0.0270 0.0169

Neptune 102395-01-05 23:59 G 39120070.47 39120070.50 39120070.56 0.0089 0.0087

Neptune 102395-04-04 04:04 G 39120158.57 39120158.67 39120158.78 0.0089 0.0076

Neptune 102395-07-01 07:25 G 39120246.70 39120246.81 39120246.97 0.0089 0.0066

Neptune 102395-09-27 11:30 G 39120334.84 39120334.98 39120335.15 0.0090 0.0055

Neptune 102395-12-24 15:21 G 39120422.98 39120423.14 39120423.32 0.0090 0.0044

Jupiter 102396-02-06 21:06 G 39120467.25 39120467.38 39120467.50 0.0512 0.0090

Neptune 102396-03-21 19:11 G 39120511.13 39120511.30 39120511.49 0.0090 0.0033

Neptune 102396-06-17 23:01 G 39120599.28 39120599.46 39120599.66 0.0090 0.0022

Neptune 102396-09-14 02:52 G 39120687.43 39120687.62 39120687.82 0.0090 0.0011

Neptune 102396-12-11 06:42 G 39120775.59 39120775.78 39120775.98 0.0090 0.0001

Neptune 102397-03-09 10:33 G 39120863.75 39120863.94 39120864.14 0.0090 0.0010

Neptune 102397-06-05 14:09 G 39120951.91 39120952.09 39120952.29 0.0090 0.0022

Neptune 102397-09-01 18:13 G 39121040.08 39121040.26 39121040.44 0.0090 0.0032

Neptune 102397-11-28 21:49 G 39121128.25 39121128.41 39121128.59 0.0090 0.0043

Neptune 102398-02-25 01:25 G 39121216.42 39121216.56 39121216.73 0.0090 0.0054

Neptune 102398-05-24 05:16 G 39121304.60 39121304.72 39121304.87 0.0090 0.0065

Neptune 102398-08-20 08:52 G 39121392.79 39121392.87 39121393.00 0.0090 0.0076

Neptune 102398-11-16 13:11 G 39121481.00 39121481.05 39121481.11 0.0090 0.0086

Earth 102400-03-15 07:54 G 39121965.75 39121965.83 39121965.92 0.2645 0.1614

Moon 102400-03-15 08:37 G 39121965.78 39121965.86 39121965.94 0.2645 0.1680 *

Venus 102400-10-14 08:23 G 39122178.72 39122178.85 39122178.99 0.3729 0.2007

Mars 102401-03-03 15:06 G 39122319.01 39122319.13 39122319.24 0.1625 0.0042

Jupiter 102402-03-27 05:30 G 39122707.62 39122707.73 39122707.85 0.0513 0.0393

Saturn 102406-09-13 12:57 G 39124338.93 39124339.04 39124339.16 0.0294 0.0146

Saturn 102406-12-11 00:42 G 39124427.41 39124427.53 39124427.66 0.0293 0.0022

Earth 102407-03-09 09:35 G 39124515.88 39124515.90 39124515.92 0.2649 0.2586

Saturn 102407-03-09 12:28 G 39124515.92 39124516.02 39124516.12 0.0292 0.0182 *

Jupiter 102407-11-26 01:40 G 39124777.46 39124777.57 39124777.68 0.0513 0.0246

Jupiter 102408-02-23 05:30 G 39124866.65 39124866.73 39124866.81 0.0511 0.0378

Mars 102409-09-24 03:21 G 39125445.49 39125445.64 39125445.79 0.1922 0.0851

Venus 102410-04-22 11:59 G 39125655.95 39125656.00 39125656.05 0.3651 0.3095

Mars 102410-07-25 02:37 G 39125749.50 39125749.61 39125749.72 0.1629 0.0446

Mars 102412-06-29 04:18 G 39126454.64 39126454.68 39126454.72 0.1612 0.1508

Jupiter 102414-04-13 14:52 G 39127107.98 39127108.12 39127108.27 0.0514 0.0320

Venus 102415-11-06 03:06 G 39127679.54 39127679.63 39127679.73 0.3648 0.1307

Earth 102416-09-13 10:47 G 39127991.80 39127991.95 39127992.10 0.2685 0.1079

Moon 102416-09-13 12:42 G 39127991.88 39127992.03 39127992.19 0.2687 0.0916 *

Mars 102419-02-13 19:25 G 39128875.16 39128875.31 39128875.47 0.1914 0.0799

Jupiter 102419-09-14 06:28 G 39129087.69 39129087.77 39129087.84 0.0514 0.0404

Jupiter 102419-12-12 10:18 G 39129176.82 39129176.93 39129177.04 0.0512 0.0225

Mars 102419-12-15 14:09 G 39129179.99 39129180.09 39129180.18 0.1634 0.0937

Earth 102420-03-11 02:37 G 39129266.51 39129266.61 39129266.71 0.2647 0.1084

Moon 102420-03-11 02:52 G 39129266.52 39129266.62 39129266.72 0.2654 0.1012 *

Venus 102421-05-21 18:13 G 39129703.16 39129703.26 39129703.36 0.3646 0.0489

Mars 102421-11-19 15:49 G 39129885.07 39129885.16 39129885.25 0.1616 0.1040

Saturn 102422-06-22 07:25 G 39130099.75 39130099.81 39130099.88 0.0268 0.0251

Saturn 102422-09-19 05:59 G 39130188.56 39130188.75 39130188.94 0.0269 0.0061

Saturn 102422-12-17 04:33 G 39130277.52 39130277.69 39130277.86 0.0270 0.0131

Jupiter 102426-01-30 10:33 G 39131417.75 39131417.94 39131418.12 0.0514 0.0072

Uranus 102426-07-24 09:06 G 39131592.81 39131592.88 39131592.97 0.0137 0.0125

Uranus 102426-10-20 17:01 G 39131681.08 39131681.21 39131681.35 0.0137 0.0096

Venus 102426-12-05 09:21 G 39131726.81 39131726.89 39131726.97 0.3643 0.2224

Uranus 102427-01-17 00:42 G 39131769.37 39131769.53 39131769.71 0.0137 0.0068

Uranus 102427-04-15 08:37 G 39131857.67 39131857.86 39131858.05 0.0137 0.0040

Uranus 102427-07-12 16:33 G 39131945.99 39131946.19 39131946.38 0.0137 0.0012

Uranus 102427-10-09 00:13 G 39132034.32 39132034.51 39132034.70 0.0137 0.0016

Uranus 102428-01-05 07:54 G 39132122.65 39132122.83 39132123.02 0.0137 0.0044

Uranus 102428-04-02 15:49 G 39132210.99 39132211.16 39132211.32 0.0137 0.0072

Uranus 102428-06-29 23:30 G 39132299.35 39132299.48 39132299.61 0.0137 0.0100

Uranus 102428-09-26 07:11 G 39132387.74 39132387.80 39132387.87 0.0137 0.0128

Mars 102429-05-07 01:25 G 39132610.51 39132610.56 39132610.62 0.1640 0.1429

Mars 102431-04-12 03:21 G 39133315.53 39133315.64 39133315.75 0.1620 0.0566

Jupiter 102431-09-30 14:37 G 39133486.99 39133487.11 39133487.24 0.0512 0.0067

Earth 102433-03-13 19:40 G 39134017.21 39134017.32 39134017.43 0.2646 0.0420

Moon 102433-03-13 20:09 G 39134017.24 39134017.34 39134017.45 0.2650 0.0468 *

Saturn 102436-01-31 16:18 G 39135071.08 39135071.18 39135071.28 0.0294 0.0182

Saturn 102436-04-29 04:04 G 39135159.54 39135159.67 39135159.80 0.0293 0.0017

Saturn 102436-07-26 15:35 G 39135248.04 39135248.15 39135248.27 0.0292 0.0147

Jupiter 102437-11-18 06:28 G 39135727.59 39135727.77 39135727.95 0.0514 0.0169

Mars 102440-09-01 15:06 G 39136746.01 39136746.13 39136746.24 0.1625 0.0106

Jupiter 102443-07-19 19:25 G 39137797.18 39137797.31 39137797.43 0.0512 0.0093

Earth 102446-03-16 12:42 G 39138767.96 39138768.03 39138768.10 0.2645 0.1922

Moon 102446-03-16 13:11 G 39138767.99 39138768.05 39138768.12 0.2642 0.2077 *

Mars 102449-03-25 04:33 G 39139872.54 39139872.69 39139872.83 0.1922 0.0998

Jupiter 102449-09-06 02:23 G 39140037.50 39140037.60 39140037.72 0.0513 0.0408

Mars 102450-01-23 02:23 G 39140176.49 39140176.60 39140176.72 0.1630 0.0396

Venus 102451-11-04 22:47 G 39140827.36 39140827.45 39140827.54 0.3726 0.3111

Mars 102451-12-29 04:18 G 39140881.65 39140881.68 39140881.70 0.1612 0.1566

Saturn 102452-02-06 05:16 G 39140920.55 39140920.72 39140920.90 0.0268 0.0111

Saturn 102452-05-05 03:49 G 39141009.48 39141009.66 39141009.85 0.0269 0.0082

Moon 102453-03-09 14:09 G 39141318.04 39141318.09 39141318.14 0.2655 0.2318

Earth 102453-03-09 14:23 G 39141318.05 39141318.10 39141318.15 0.2649 0.2281 *

Jupiter 102455-05-07 23:45 G 39142107.38 39142107.49 39142107.60 0.0513 0.0258

Jupiter 102455-08-05 03:21 G 39142196.56 39142196.64 39142196.73 0.0511 0.0365

Mars 102458-08-14 19:54 G 39143302.18 39143302.33 39143302.49 0.1914 0.0688

Mars 102459-06-15 14:09 G 39143606.99 39143607.09 39143607.18 0.1634 0.0876

Mars 102461-05-20 15:49 G 39144312.07 39144312.16 39144312.24 0.1616 0.1097

Jupiter 102461-09-23 12:57 G 39144437.90 39144438.04 39144438.19 0.0515 0.0322

Earth 102462-09-14 17:59 G 39144794.08 39144794.25 39144794.41 0.2685 0.0352

Moon 102462-09-14 19:54 G 39144794.16 39144794.33 39144794.49 0.2686 0.0101 *

Saturn 102465-06-19 19:11 G 39145803.22 39145803.30 39145803.39 0.0294 0.0219

Saturn 102465-09-16 07:11 G 39145891.67 39145891.80 39145891.92 0.0293 0.0053

Saturn 102465-12-13 18:42 G 39145980.17 39145980.28 39145980.40 0.0292 0.0111

Earth 102466-03-12 07:25 G 39146068.70 39146068.81 39146068.91 0.2647 0.0785

Moon 102466-03-12 07:40 G 39146068.72 39146068.82 39146068.92 0.2653 0.0748 *

Saturn 102466-03-12 06:13 G 39146068.73 39146068.76 39146068.81 0.0291 0.0273 *

Venus 102466-11-27 09:21 G 39146328.82 39146328.89 39146328.96 0.3650 0.2479

Jupiter 102467-02-24 04:18 G 39146417.61 39146417.68 39146417.75 0.0514 0.0417

Jupiter 102467-05-24 08:09 G 39146506.73 39146506.84 39146506.96 0.0512 0.0211

Mars 102468-11-05 01:25 G 39147037.50 39147037.56 39147037.63 0.1639 0.1369

Uranus 102469-07-22 22:18 G 39147297.39 39147297.43 39147297.49 0.0141 0.0129

Uranus 102469-10-19 01:40 G 39147385.50 39147385.57 39147385.66 0.0141 0.0109

Uranus 102470-01-15 05:16 G 39147473.62 39147473.72 39147473.82 0.0141 0.0088

Uranus 102470-04-13 08:37 G 39147561.75 39147561.86 39147561.98 0.0141 0.0068

Uranus 102470-07-10 11:59 G 39147649.88 39147650.00 39147650.13 0.0141 0.0047

Uranus 102470-10-06 15:21 G 39147738.01 39147738.14 39147738.27 0.0141 0.0027

Mars 102470-10-11 03:21 G 39147742.54 39147742.64 39147742.75 0.1620 0.0630

Uranus 102471-01-02 18:42 G 39147826.15 39147826.28 39147826.41 0.0141 0.0007

Uranus 102471-03-31 22:04 G 39147914.29 39147914.42 39147914.55 0.0141 0.0015

Uranus 102471-06-28 01:25 G 39148002.44 39148002.56 39148002.69 0.0141 0.0035

Uranus 102471-09-24 04:47 G 39148090.58 39148090.70 39148090.82 0.0141 0.0056

Uranus 102471-12-21 08:09 G 39148178.74 39148178.84 39148178.95 0.0141 0.0076

Uranus 102472-03-18 11:30 G 39148266.89 39148266.98 39148267.08 0.0141 0.0097

Venus 102472-06-12 00:28 G 39148352.42 39148352.52 39148352.62 0.3648 0.0685

Uranus 102472-06-14 14:52 G 39148355.05 39148355.12 39148355.20 0.0141 0.0117

Uranus 102472-09-10 18:13 G 39148443.24 39148443.26 39148443.29 0.0142 0.0138

Jupiter 102473-07-12 07:40 G 39148747.63 39148747.82 39148748.01 0.0514 0.0061

Neptune 102475-07-31 21:21 G 39149497.38 39149497.39 39149497.43 0.0088 0.0086

Neptune 102475-10-27 22:47 G 39149585.40 39149585.45 39149585.51 0.0088 0.0079

Neptune 102476-01-23 23:59 G 39149673.43 39149673.50 39149673.58 0.0088 0.0072

Neptune 102476-04-21 01:25 G 39149761.47 39149761.56 39149761.65 0.0088 0.0065

Neptune 102476-07-18 02:23 G 39149849.52 39149849.60 39149849.71 0.0088 0.0059

Neptune 102476-10-14 03:49 G 39149937.56 39149937.66 39149937.77 0.0088 0.0052

Neptune 102477-01-10 05:01 G 39150025.60 39150025.71 39150025.83 0.0088 0.0045

Neptune 102477-04-08 06:13 G 39150113.65 39150113.76 39150113.89 0.0088 0.0038

Neptune 102477-07-05 07:40 G 39150201.70 39150201.82 39150201.94 0.0088 0.0031

Neptune 102477-10-01 08:52 G 39150289.75 39150289.87 39150290.00 0.0088 0.0024

Venus 102477-12-26 15:35 G 39150376.05 39150376.15 39150376.25 0.3645 0.1080

Neptune 102477-12-28 10:04 G 39150377.80 39150377.92 39150378.05 0.0088 0.0018

Neptune 102478-03-26 11:30 G 39150465.85 39150465.98 39150466.11 0.0088 0.0011

Neptune 102478-06-22 12:42 G 39150553.90 39150554.03 39150554.16 0.0088 0.0004

Neptune 102478-09-18 13:54 G 39150641.95 39150642.08 39150642.21 0.0088 0.0003

Neptune 102478-12-15 15:06 G 39150730.00 39150730.13 39150730.26 0.0088 0.0010

Jupiter 102479-03-12 12:57 G 39150816.91 39150817.04 39150817.16 0.0512 0.0056

Neptune 102479-03-13 16:18 G 39150818.06 39150818.18 39150818.32 0.0088 0.0017

Earth 102479-03-15 00:13 G 39150819.41 39150819.51 39150819.62 0.2646 0.0734

Moon 102479-03-15 00:57 G 39150819.44 39150819.54 39150819.64 0.2649 0.0888 *

Neptune 102479-06-09 17:30 G 39150906.11 39150906.23 39150906.36 0.0088 0.0024

Neptune 102479-09-05 18:57 G 39150994.17 39150994.29 39150994.41 0.0088 0.0031

Neptune 102479-12-02 20:09 G 39151082.22 39151082.34 39151082.46 0.0088 0.0037

Neptune 102480-02-28 21:21 G 39151170.28 39151170.39 39151170.51 0.0088 0.0044

Mars 102480-03-02 14:52 G 39151173.01 39151173.12 39151173.24 0.1625 0.0156

Neptune 102480-05-26 22:33 G 39151258.34 39151258.44 39151258.55 0.0088 0.0051

Neptune 102480-08-22 23:45 G 39151346.40 39151346.49 39151346.60 0.0088 0.0058

Neptune 102480-11-19 00:57 G 39151434.46 39151434.54 39151434.64 0.0088 0.0065

Neptune 102481-02-15 02:09 G 39151522.53 39151522.59 39151522.68 0.0088 0.0072

Neptune 102481-05-14 03:35 G 39151610.60 39151610.65 39151610.71 0.0088 0.0078

Saturn 102481-06-25 05:59 G 39151652.60 39151652.75 39151652.92 0.0269 0.0150

Neptune 102481-08-10 04:47 G 39151698.68 39151698.70 39151698.74 0.0088 0.0085

Saturn 102481-09-22 04:47 G 39151741.51 39151741.70 39151741.89 0.0269 0.0043

Saturn 102481-12-20 03:06 G 39151830.55 39151830.63 39151830.73 0.0270 0.0237

Venus 102483-07-12 06:42 G 39152399.72 39152399.78 39152399.84 0.3642 0.2830

Jupiter 102485-04-30 03:06 G 39153057.46 39153057.63 39153057.81 0.0513 0.0187

Mars 102488-09-23 05:16 G 39154299.59 39154299.72 39154299.86 0.1922 0.1139

Mars 102489-07-24 02:23 G 39154603.49 39154603.60 39154603.72 0.1629 0.0337

Jupiter 102490-12-29 17:30 G 39155127.10 39155127.23 39155127.35 0.0513 0.0104

Earth 102492-03-16 17:30 G 39155570.17 39155570.23 39155570.28 0.2645 0.2232

Moon 102492-03-16 17:59 G 39155570.20 39155570.25 39155570.30 0.2641 0.2258 *

Saturn 102494-11-06 22:33 G 39156535.38 39156535.44 39156535.51 0.0295 0.0253

Saturn 102495-02-03 10:18 G 39156623.81 39156623.93 39156624.06 0.0294 0.0088

Saturn 102495-05-02 22:04 G 39156712.30 39156712.42 39156712.55 0.0293 0.0078

Saturn 102495-07-30 09:49 G 39156800.84 39156800.91 39156800.98 0.0292 0.0239

Jupiter 102497-02-15 23:01 G 39157367.36 39157367.46 39157367.56 0.0513 0.0428

Mars 102498-02-12 21:21 G 39157729.23 39157729.39 39157729.55 0.1914 0.0523

Mars 102498-12-14 13:54 G 39158033.98 39158034.08 39158034.18 0.1634 0.0822

Moon 102499-03-10 18:57 G 39158120.22 39158120.29 39158120.36 0.2655 0.1998

Earth 102499-03-10 18:57 G 39158120.22 39158120.29 39158120.37 0.2648 0.1974 *

Mars 102500-11-19 15:49 G 39158739.08 39158739.16 39158739.24 0.1616 0.1157

Jupiter 102502-10-18 22:04 G 39159437.32 39159437.42 39159437.53 0.0513 0.0261

Jupiter 102503-01-16 01:54 G 39159526.49 39159526.58 39159526.67 0.0511 0.0362

Mars 102508-05-07 01:25 G 39161464.49 39161464.56 39161464.63 0.1640 0.1313

Venus 102508-06-12 01:40 G 39161500.41 39161500.57 39161500.73 0.3727 0.0870

Earth 102508-09-16 00:57 G 39161596.38 39161596.54 39161596.70 0.2686 0.0409

Moon 102508-09-16 02:52 G 39161596.47 39161596.62 39161596.78 0.2687 0.0582 *

Jupiter 102509-03-06 10:04 G 39161767.77 39161767.92 39161768.07 0.0515 0.0309

Mars 102510-04-12 03:21 G 39162169.53 39162169.64 39162169.74 0.1620 0.0683

Uranus 102510-08-14 15:21 G 39162294.06 39162294.14 39162294.25 0.0137 0.0120

Uranus 102510-11-10 23:16 G 39162382.34 39162382.47 39162382.62 0.0137 0.0092

Saturn 102510-11-13 05:01 G 39162384.60 39162384.71 39162384.85 0.0268 0.0200

Pluto 102510-11-24 16:04 G 39162396.10 39162396.17 39162396.28 0.0060 0.0053

Uranus 102511-02-07 06:57 G 39162470.63 39162470.79 39162470.98 0.0137 0.0064

Saturn 102511-02-10 03:49 G 39162473.46 39162473.66 39162473.85 0.0269 0.0010

Pluto 102511-02-20 17:30 G 39162484.11 39162484.23 39162484.37 0.0060 0.0043

Uranus 102511-05-06 14:52 G 39162558.94 39162559.12 39162559.32 0.0137 0.0036

Saturn 102511-05-10 02:09 G 39162562.46 39162562.59 39162562.74 0.0270 0.0184

Pluto 102511-05-19 18:42 G 39162572.13 39162572.28 39162572.45 0.0060 0.0033

Uranus 102511-08-02 22:47 G 39162647.26 39162647.45 39162647.65 0.0137 0.0008

Pluto 102511-08-15 20:09 G 39162660.17 39162660.34 39162660.52 0.0060 0.0023

Uranus 102511-10-30 06:28 G 39162735.58 39162735.77 39162735.97 0.0137 0.0021

Pluto 102511-11-11 21:35 G 39162748.21 39162748.40 39162748.59 0.0060 0.0013

Uranus 102512-01-26 14:09 G 39162823.92 39162824.09 39162824.28 0.0137 0.0049

Pluto 102512-02-07 22:47 G 39162836.26 39162836.45 39162836.65 0.0060 0.0004

Earth 102512-03-13 11:59 G 39162870.90 39162871.00 39162871.11 0.2647 0.0473

Moon 102512-03-13 12:28 G 39162870.91 39162871.02 39162871.13 0.2652 0.0383 *

Uranus 102512-04-23 21:49 G 39162912.26 39162912.41 39162912.59 0.0137 0.0077

Pluto 102512-05-06 00:13 G 39162924.32 39162924.51 39162924.70 0.0060 0.0007

Uranus 102512-07-21 05:30 G 39163000.62 39163000.73 39163000.87 0.0137 0.0105

Pluto 102512-08-02 01:25 G 39163012.38 39163012.56 39163012.75 0.0060 0.0017

Uranus 102512-10-17 13:11 G 39163089.02 39163089.05 39163089.12 0.0137 0.0133

Pluto 102512-10-29 02:37 G 39163100.44 39163100.61 39163100.79 0.0060 0.0027

Pluto 102513-01-25 04:04 G 39163188.52 39163188.67 39163188.82 0.0060 0.0037

Pluto 102513-04-23 05:16 G 39163276.61 39163276.72 39163276.84 0.0060 0.0047

Pluto 102513-07-20 05:59 G 39163364.72 39163364.75 39163364.84 0.0061 0.0058

Jupiter 102514-08-07 02:23 G 39163747.53 39163747.60 39163747.67 0.0514 0.0426

Jupiter 102514-11-04 06:13 G 39163836.65 39163836.76 39163836.88 0.0511 0.0202

Mars 102519-09-02 14:52 G 39165600.01 39165600.12 39165600.24 0.1624 0.0215

Jupiter 102520-12-23 05:45 G 39166077.55 39166077.74 39166077.92 0.0514 0.0062

Venus 102523-07-05 06:42 G 39167001.69 39167001.78 39167001.87 0.3649 0.1854

Saturn 102524-06-23 13:11 G 39167355.93 39167356.05 39167356.16 0.0294 0.0129

Saturn 102524-09-20 00:57 G 39167444.41 39167444.54 39167444.67 0.0293 0.0036

Saturn 102524-12-17 12:28 G 39167532.93 39167533.02 39167533.12 0.0292 0.0199

Earth 102525-03-16 05:01 G 39167621.61 39167621.71 39167621.81 0.2646 0.1036

Moon 102525-03-16 05:45 G 39167621.64 39167621.74 39167621.84 0.2647 0.1099 *

Jupiter 102526-08-23 11:01 G 39168146.83 39168146.96 39168147.09 0.0512 0.0046

Mars 102528-03-25 06:13 G 39168726.64 39168726.76 39168726.89 0.1922 0.1281

Venus 102529-01-17 21:49 G 39169025.31 39169025.41 39169025.51 0.3647 0.0073

Mars 102529-01-23 02:23 G 39169030.49 39169030.60 39169030.72 0.1629 0.0276

Jupiter 102532-10-11 00:42 G 39170387.36 39170387.53 39170387.70 0.0513 0.0192

Venus 102534-08-03 12:57 G 39171048.95 39171049.04 39171049.13 0.3644 0.1689

Mars 102537-08-14 22:18 G 39172156.26 39172156.43 39172156.60 0.1914 0.0379

Earth 102538-03-18 22:04 G 39172372.39 39172372.42 39172372.45 0.2645 0.2536

Jupiter 102538-06-11 15:35 G 39172457.03 39172457.15 39172457.28 0.0513 0.0113

Mars 102538-06-15 13:54 G 39172460.98 39172461.08 39172461.18 0.1634 0.0764

Jupiter 102538-09-08 19:25 G 39172546.30 39172546.31 39172546.31 0.0511 0.0510

Venus 102540-02-17 04:04 G 39173072.64 39173072.67 39173072.70 0.3642 0.3433

Saturn 102540-04-01 05:30 G 39173116.66 39173116.73 39173116.82 0.0268 0.0242

Mars 102540-05-20 15:49 G 39173166.08 39173166.16 39173166.23 0.1615 0.1218

Saturn 102540-06-29 04:04 G 39173205.48 39173205.67 39173205.86 0.0269 0.0052

Saturn 102540-09-26 02:23 G 39173294.45 39173294.60 39173294.77 0.0270 0.0141

Moon 102541-09-13 23:59 G 39173647.45 39173647.50 39173647.55 0.2687 0.2537

Jupiter 102544-07-29 20:23 G 39174697.26 39174697.35 39174697.45 0.0512 0.0435

Moon 102545-03-11 23:45 G 39174922.41 39174922.49 39174922.57 0.2655 0.1693

Earth 102545-03-11 23:45 G 39174922.41 39174922.49 39174922.57 0.2648 0.1663 *

Mars 102547-11-06 01:25 G 39175891.49 39175891.56 39175891.63 0.1639 0.1255

Mars 102549-10-11 03:21 G 39176596.54 39176596.64 39176596.74 0.1620 0.0743

Jupiter 102550-03-30 20:09 G 39176767.24 39176767.34 39176767.45 0.0513 0.0271

Jupiter 102550-06-27 23:59 G 39176856.41 39176856.50 39176856.59 0.0511 0.0353

Uranus 102553-08-13 05:59 G 39177998.69 39177998.75 39177998.82 0.0141 0.0122

Uranus 102553-11-09 09:21 G 39178086.81 39178086.89 39178086.99 0.0141 0.0102

Saturn 102553-11-10 16:18 G 39178088.08 39178088.18 39178088.29 0.0294 0.0165

Uranus 102554-02-05 12:42 G 39178174.93 39178175.03 39178175.14 0.0141 0.0082

Saturn 102554-02-07 04:04 G 39178176.54 39178176.67 39178176.80 0.0293 0.0008

Uranus 102554-05-04 16:18 G 39178263.06 39178263.18 39178263.30 0.0141 0.0061

Saturn 102554-05-06 15:49 G 39178265.05 39178265.16 39178265.27 0.0292 0.0164

Uranus 102554-07-31 19:25 G 39178351.19 39178351.31 39178351.44 0.0141 0.0041

Earth 102554-09-17 07:54 G 39178398.68 39178398.83 39178398.98 0.2686 0.1132

Moon 102554-09-17 09:49 G 39178398.77 39178398.91 39178399.04 0.2686 0.1521 *

Uranus 102554-10-27 23:01 G 39178439.33 39178439.46 39178439.59 0.0141 0.0020

Uranus 102555-01-24 02:23 G 39178527.47 39178527.60 39178527.73 0.0141 0.0001

Uranus 102555-04-22 05:45 G 39178615.61 39178615.74 39178615.87 0.0141 0.0021

Uranus 102555-07-19 09:06 G 39178703.75 39178703.88 39178704.01 0.0141 0.0041

Uranus 102555-10-15 12:13 G 39178791.90 39178792.01 39178792.14 0.0141 0.0063

Uranus 102556-01-11 15:49 G 39178880.06 39178880.16 39178880.27 0.0141 0.0082

Uranus 102556-04-08 18:57 G 39178968.21 39178968.29 39178968.39 0.0141 0.0104

Uranus 102556-07-05 22:33 G 39179056.38 39179056.44 39179056.50 0.0141 0.0123

Jupiter 102556-08-16 06:42 G 39179097.63 39179097.78 39179097.94 0.0515 0.0291

Earth 102558-03-14 16:47 G 39179673.09 39179673.20 39179673.31 0.2647 0.0161

Moon 102558-03-14 17:16 G 39179673.11 39179673.22 39179673.33 0.2652 0.0086 *

Mars 102559-03-03 14:52 G 39180027.01 39180027.12 39180027.24 0.1624 0.0266

Neptune 102559-10-03 22:04 G 39180241.37 39180241.42 39180241.52 0.0089 0.0083

Neptune 102559-12-31 02:09 G 39180329.49 39180329.59 39180329.72 0.0089 0.0072

Neptune 102560-03-28 05:59 G 39180417.62 39180417.75 39180417.90 0.0089 0.0061

Neptune 102560-06-24 09:35 G 39180505.76 39180505.90 39180506.08 0.0090 0.0051

Neptune 102560-09-20 13:40 G 39180593.90 39180594.07 39180594.25 0.0090 0.0039

Neptune 102560-12-17 17:30 G 39180682.05 39180682.23 39180682.42 0.0090 0.0029

Neptune 102561-03-15 21:21 G 39180770.20 39180770.39 39180770.59 0.0090 0.0018

Neptune 102561-06-12 01:11 G 39180858.36 39180858.55 39180858.75 0.0090 0.0007

Neptune 102561-09-08 05:01 G 39180946.51 39180946.71 39180946.91 0.0090 0.0004

Neptune 102561-12-05 08:52 G 39181034.67 39181034.87 39181035.06 0.0090 0.0015

Jupiter 102562-01-17 00:57 G 39181077.47 39181077.54 39181077.61 0.0514 0.0426

Neptune 102562-03-03 12:28 G 39181122.84 39181123.02 39181123.22 0.0090 0.0026

Jupiter 102562-04-16 04:47 G 39181166.59 39181166.70 39181166.82 0.0511 0.0202

Neptune 102562-05-30 16:04 G 39181211.01 39181211.17 39181211.37 0.0090 0.0037

Neptune 102562-08-26 20:09 G 39181299.18 39181299.34 39181299.51 0.0090 0.0047

Neptune 102562-11-22 23:45 G 39181387.35 39181387.49 39181387.65 0.0090 0.0058

Neptune 102563-02-19 03:35 G 39181475.54 39181475.65 39181475.79 0.0090 0.0069

Neptune 102563-05-18 07:11 G 39181563.73 39181563.80 39181563.91 0.0090 0.0080

Venus 102565-01-17 04:47 G 39182173.55 39182173.70 39182173.85 0.3728 0.1432

Mars 102567-09-24 07:25 G 39183153.70 39183153.81 39183153.92 0.1922 0.1430

Jupiter 102568-06-04 02:52 G 39183407.44 39183407.62 39183407.81 0.0514 0.0053

Mars 102568-07-24 02:23 G 39183457.49 39183457.60 39183457.72 0.1629 0.0217

Saturn 102569-11-16 02:37 G 39183937.44 39183937.61 39183937.79 0.0268 0.0107

Saturn 102570-02-13 01:11 G 39184026.37 39184026.55 39184026.73 0.0269 0.0084

Earth 102571-03-17 09:49 G 39184423.82 39184423.91 39184424.00 0.2646 0.1343

Moon 102571-03-17 10:33 G 39184423.85 39184423.94 39184424.03 0.2644 0.1475 *

Jupiter 102574-02-02 09:21 G 39185476.76 39185476.89 39185477.02 0.0512 0.0041

Venus 102574-07-26 12:57 G 39185650.98 39185651.04 39185651.09 0.3651 0.3030

Mars 102577-02-12 23:01 G 39186583.29 39186583.46 39186583.62 0.1915 0.0257

Mars 102577-12-14 13:54 G 39186887.98 39186888.08 39186888.19 0.1634 0.0703

Mars 102579-11-19 15:35 G 39187593.08 39187593.15 39187593.22 0.1616 0.1278

Venus 102580-02-09 04:04 G 39187674.57 39187674.67 39187674.76 0.3649 0.1232

Jupiter 102580-03-22 22:47 G 39187717.28 39187717.45 39187717.63 0.0513 0.0189

Saturn 102583-03-30 18:42 G 39188820.19 39188820.28 39188820.37 0.0295 0.0212

Saturn 102583-06-27 06:28 G 39188908.64 39188908.77 39188908.90 0.0294 0.0046

Saturn 102583-09-23 18:13 G 39188997.14 39188997.26 39188997.38 0.0293 0.0118

Saturn 102583-12-21 05:45 G 39189085.71 39189085.74 39189085.78 0.0292 0.0280

Venus 102585-08-24 19:11 G 39189698.20 39189698.30 39189698.40 0.3646 0.0545

Jupiter 102585-11-21 13:54 G 39189786.96 39189787.08 39189787.21 0.0513 0.0117

Jupiter 102586-02-18 17:30 G 39189876.22 39189876.23 39189876.25 0.0510 0.0504

Mars 102586-07-05 15:06 G 39190013.11 39190013.13 39190013.15 0.1907 0.1889

Mars 102587-05-07 01:25 G 39190318.48 39190318.56 39190318.64 0.1639 0.1197

Earth 102587-09-15 05:01 G 39190449.61 39190449.71 39190449.82 0.2685 0.2038

Moon 102587-09-15 06:57 G 39190449.67 39190449.79 39190449.91 0.2687 0.1749 *

Mars 102589-04-11 03:21 G 39191023.54 39191023.64 39191023.74 0.1620 0.0805

Venus 102591-03-10 10:18 G 39191721.85 39191721.93 39191722.00 0.3643 0.2298

Earth 102591-03-13 04:33 G 39191724.59 39191724.69 39191724.78 0.2648 0.1356

Moon 102591-03-13 04:33 G 39191724.60 39191724.69 39191724.79 0.2654 0.1281 *

Jupiter 102592-01-09 18:13 G 39192027.17 39192027.26 39192027.36 0.0512 0.0436

Uranus 102594-09-03 22:47 G 39192995.35 39192995.45 39192995.56 0.0137 0.0113

Uranus 102594-12-01 06:42 G 39193083.63 39193083.78 39193083.93 0.0137 0.0085

Uranus 102595-02-27 14:09 G 39193171.92 39193172.09 39193172.28 0.0137 0.0057

Uranus 102595-05-26 22:04 G 39193260.23 39193260.42 39193260.62 0.0137 0.0029

Uranus 102595-08-23 05:59 G 39193348.55 39193348.75 39193348.94 0.0137 0.0001

Uranus 102595-11-19 13:40 G 39193436.88 39193437.07 39193437.26 0.0137 0.0027

Uranus 102596-02-15 21:21 G 39193525.22 39193525.39 39193525.57 0.0137 0.0056

Uranus 102596-05-14 05:01 G 39193613.56 39193613.71 39193613.87 0.0137 0.0084

Uranus 102596-08-10 12:57 G 39193701.93 39193702.04 39193702.15 0.0137 0.0111

Jupiter 102597-09-09 18:42 G 39194097.17 39194097.28 39194097.38 0.0514 0.0275

Jupiter 102597-12-07 22:18 G 39194186.34 39194186.43 39194186.53 0.0511 0.0351

Mars 102598-09-01 14:52 G 39194454.01 39194454.12 39194454.23 0.1624 0.0325

Saturn 102599-04-05 02:23 G 39194669.45 39194669.60 39194669.76 0.0268 0.0154

Saturn 102599-07-03 00:57 G 39194758.35 39194758.54 39194758.73 0.0269 0.0037

Saturn 102599-09-29 23:30 G 39194847.38 39194847.48 39194847.58 0.0270 0.0230

Earth 102600-09-18 14:52 G 39195201.01 39195201.12 39195201.24 0.2686 0.1875

Moon 102600-09-18 16:47 G 39195201.09 39195201.20 39195201.30 0.2684 0.2057 *

Jupiter 102604-01-28 04:33 G 39196427.54 39196427.69 39196427.85 0.0514 0.0291

Earth 102604-03-15 21:35 G 39196475.29 39196475.40 39196475.50 0.2647 0.0168

Moon 102604-03-15 22:04 G 39196475.31 39196475.42 39196475.53 0.2651 0.0223 *

Pluto 102605-08-29 07:54 G 39197006.81 39197006.83 39197006.88 0.0084 0.0081

Pluto 102605-11-25 09:21 G 39197094.81 39197094.89 39197094.99 0.0084 0.0062

Pluto 102606-02-21 10:33 G 39197182.83 39197182.94 39197183.07 0.0084 0.0043

Pluto 102606-05-20 11:59 G 39197270.87 39197271.00 39197271.13 0.0084 0.0023

Pluto 102606-08-16 13:11 G 39197358.92 39197359.05 39197359.19 0.0084 0.0004

Pluto 102606-11-12 14:23 G 39197446.97 39197447.10 39197447.23 0.0083 0.0014

Pluto 102607-02-08 15:21 G 39197535.03 39197535.14 39197535.27 0.0083 0.0034

Mars 102607-03-26 08:09 G 39197580.75 39197580.84 39197580.94 0.1922 0.1567

Pluto 102607-05-07 16:33 G 39197623.10 39197623.19 39197623.31 0.0083 0.0052

Pluto 102607-08-03 17:59 G 39197711.18 39197711.25 39197711.32 0.0083 0.0070

Mars 102608-01-24 02:23 G 39197884.48 39197884.60 39197884.71 0.1629 0.0161

Jupiter 102609-06-29 23:16 G 39198407.41 39198407.47 39198407.54 0.0514 0.0432

Jupiter 102609-09-27 03:06 G 39198496.52 39198496.63 39198496.75 0.0511 0.0197

Saturn 102612-08-17 21:35 G 39199552.33 39199552.40 39199552.46 0.0295 0.0252

Saturn 102612-11-14 09:21 G 39199640.77 39199640.89 39199641.01 0.0294 0.0085

Saturn 102613-02-10 21:06 G 39199729.26 39199729.38 39199729.50 0.0293 0.0080

Saturn 102613-05-10 08:37 G 39199817.80 39199817.86 39199817.94 0.0292 0.0242

Jupiter 102615-11-15 23:59 G 39200737.32 39200737.50 39200737.69 0.0514 0.0042

Venus 102616-02-08 19:11 G 39200822.26 39200822.30 39200822.33 0.3725 0.3618

Mars 102616-08-15 00:13 G 39201010.34 39201010.51 39201010.67 0.1915 0.0109

Earth 102617-03-18 14:37 G 39201226.02 39201226.11 39201226.19 0.2646 0.1656

Moon 102617-03-18 15:06 G 39201226.05 39201226.13 39201226.21 0.2644 0.1761 *

Mars 102617-06-15 13:54 G 39201314.97 39201315.08 39201315.19 0.1634 0.0647

Mars 102619-05-21 15:35 G 39202020.09 39202020.15 39202020.22 0.1615 0.1336

Jupiter 102621-07-16 08:09 G 39202806.71 39202806.84 39202806.97 0.0512 0.0045

Moon 102624-03-11 15:49 G 39203776.14 39203776.16 39203776.19 0.2655 0.2556

Earth 102624-03-11 16:18 G 39203776.15 39203776.18 39203776.20 0.2649 0.2556 *

Mars 102626-01-04 15:49 G 39204440.10 39204440.16 39204440.23 0.1907 0.1759

Mars 102626-11-06 01:25 G 39204745.48 39204745.56 39204745.64 0.1639 0.1140

Jupiter 102627-09-03 20:23 G 39205047.18 39205047.35 39205047.53 0.0514 0.0195

Saturn 102628-08-23 00:42 G 39205401.42 39205401.53 39205401.65 0.0267 0.0211

Mars 102628-10-11 03:21 G 39205450.54 39205450.64 39205450.73 0.1620 0.0863

Saturn 102628-11-19 23:01 G 39205490.27 39205490.46 39205490.66 0.0268 0.0022

Saturn 102629-02-16 21:35 G 39205579.25 39205579.40 39205579.55 0.0269 0.0170

Venus 102631-03-03 10:18 G 39206323.85 39206323.93 39206324.00 0.3651 0.2402

Jupiter 102633-05-04 12:42 G 39207116.90 39207117.03 39207117.15 0.0512 0.0116

Jupiter 102633-08-01 16:18 G 39207206.16 39207206.18 39207206.20 0.0510 0.0503

Earth 102633-09-16 12:13 G 39207251.87 39207252.01 39207252.15 0.2685 0.1291

Moon 102633-09-16 14:09 G 39207251.93 39207252.09 39207252.24 0.2687 0.0998 *

Mars 102636-03-28 12:42 G 39208176.03 39208176.03 39208176.04 0.1644 0.1637

Venus 102636-09-16 01:25 G 39208347.46 39208347.56 39208347.66 0.3648 0.0608

Earth 102637-03-14 09:06 G 39208526.78 39208526.88 39208526.98 0.2648 0.1049

Moon 102637-03-14 09:21 G 39208526.80 39208526.89 39208526.99 0.2654 0.1071 *

Uranus 102637-06-07 10:18 G 39208611.90 39208611.93 39208611.96 0.0141 0.0136

Uranus 102637-09-03 13:25 G 39208700.00 39208700.06 39208700.14 0.0141 0.0116

Uranus 102637-11-30 16:47 G 39208788.11 39208788.20 39208788.31 0.0141 0.0096

Uranus 102638-02-26 20:23 G 39208876.24 39208876.35 39208876.46 0.0141 0.0075

Mars 102638-03-03 14:52 G 39208881.01 39208881.12 39208881.23 0.1624 0.0386

Uranus 102638-05-25 23:45 G 39208964.37 39208964.49 39208964.61 0.0141 0.0055

Uranus 102638-08-22 03:06 G 39209052.51 39209052.63 39209052.76 0.0141 0.0034

Uranus 102638-11-18 06:28 G 39209140.64 39209140.77 39209140.90 0.0141 0.0014

Uranus 102639-02-14 09:49 G 39209228.78 39209228.91 39209229.04 0.0141 0.0008

Uranus 102639-05-13 13:11 G 39209316.93 39209317.05 39209317.18 0.0141 0.0028

Jupiter 102639-06-22 16:33 G 39209357.10 39209357.19 39209357.30 0.0513 0.0430

Uranus 102639-08-09 16:33 G 39209405.07 39209405.19 39209405.32 0.0141 0.0048

Uranus 102639-11-05 19:54 G 39209493.22 39209493.33 39209493.45 0.0141 0.0069

Uranus 102640-02-01 23:30 G 39209581.38 39209581.48 39209581.58 0.0141 0.0089

Neptune 102640-04-28 21:06 G 39209668.35 39209668.38 39209668.43 0.0088 0.0083

Uranus 102640-04-30 02:37 G 39209669.54 39209669.61 39209669.70 0.0141 0.0110

Neptune 102640-07-25 22:33 G 39209756.38 39209756.44 39209756.51 0.0088 0.0076

Uranus 102640-07-27 06:13 G 39209757.71 39209757.76 39209757.81 0.0142 0.0130

Neptune 102640-10-21 23:30 G 39209844.42 39209844.48 39209844.57 0.0088 0.0070

Neptune 102641-01-18 00:57 G 39209932.46 39209932.54 39209932.64 0.0088 0.0063

Neptune 102641-04-16 02:09 G 39210020.50 39210020.59 39210020.70 0.0088 0.0056

Neptune 102641-07-13 03:35 G 39210108.54 39210108.65 39210108.76 0.0088 0.0049

Neptune 102641-10-09 04:47 G 39210196.59 39210196.70 39210196.82 0.0088 0.0042

Neptune 102642-01-05 05:59 G 39210284.63 39210284.75 39210284.88 0.0088 0.0035

Venus 102642-04-01 16:33 G 39210371.09 39210371.19 39210371.28 0.3645 0.1158

Neptune 102642-04-03 07:11 G 39210372.68 39210372.80 39210372.93 0.0088 0.0029

Saturn 102642-04-03 11:01 G 39210372.85 39210372.96 39210373.08 0.0294 0.0140 *

Neptune 102642-06-30 08:23 G 39210460.73 39210460.85 39210460.99 0.0088 0.0022

Saturn 102642-06-30 23:01 G 39210461.33 39210461.46 39210461.58 0.0293 0.0028

Neptune 102642-09-26 09:49 G 39210548.78 39210548.91 39210549.04 0.0088 0.0015

Saturn 102642-09-27 10:33 G 39210549.85 39210549.94 39210550.04 0.0292 0.0190

Neptune 102642-12-23 11:01 G 39210636.83 39210636.96 39210637.09 0.0088 0.0008

Neptune 102643-03-21 12:28 G 39210724.88 39210725.02 39210725.15 0.0088 0.0003

Neptune 102643-06-17 13:40 G 39210812.94 39210813.07 39210813.20 0.0088 0.0006

Neptune 102643-09-13 14:52 G 39210900.99 39210901.12 39210901.25 0.0088 0.0013

Neptune 102643-12-10 16:04 G 39210989.04 39210989.17 39210989.30 0.0088 0.0019

Neptune 102644-03-07 17:16 G 39211077.10 39211077.22 39211077.35 0.0088 0.0026

Neptune 102644-06-03 18:28 G 39211165.15 39211165.27 39211165.40 0.0088 0.0033

Neptune 102644-08-30 19:40 G 39211253.21 39211253.32 39211253.45 0.0088 0.0040

Neptune 102644-11-26 20:52 G 39211341.27 39211341.37 39211341.49 0.0088 0.0047

Jupiter 102645-02-20 17:16 G 39211427.11 39211427.22 39211427.33 0.0513 0.0273

Neptune 102645-02-22 22:04 G 39211429.33 39211429.42 39211429.54 0.0088 0.0054

Jupiter 102645-05-20 21:06 G 39211516.29 39211516.38 39211516.47 0.0511 0.0350

Neptune 102645-05-21 23:16 G 39211517.39 39211517.47 39211517.58 0.0088 0.0061

Neptune 102645-08-18 00:42 G 39211605.45 39211605.53 39211605.62 0.0088 0.0067

Neptune 102645-11-14 01:54 G 39211693.52 39211693.58 39211693.66 0.0088 0.0074

Neptune 102646-02-10 03:06 G 39211781.59 39211781.63 39211781.69 0.0088 0.0081

Neptune 102646-05-09 04:33 G 39211869.69 39211869.69 39211869.70 0.0088 0.0087

Earth 102646-09-19 21:49 G 39212003.38 39212003.41 39212003.45 0.2687 0.2604

Mars 102646-09-24 09:06 G 39212007.81 39212007.88 39212007.96 0.1923 0.1719

Mars 102647-07-25 02:23 G 39212311.48 39212311.60 39212311.72 0.1629 0.0096

Venus 102647-10-16 07:40 G 39212394.76 39212394.82 39212394.88 0.3643 0.2904

Earth 102650-03-17 02:09 G 39213277.49 39213277.59 39213277.70 0.2647 0.0466

Moon 102650-03-17 02:52 G 39213277.51 39213277.62 39213277.72 0.2649 0.0606 *

Jupiter 102651-07-10 02:52 G 39213757.47 39213757.62 39213757.78 0.0514 0.0297

Mars 102656-02-14 01:11 G 39215437.38 39215437.55 39215437.72 0.1915 0.0061

Jupiter 102656-12-09 21:49 G 39215737.34 39215737.41 39215737.48 0.0514 0.0433

Mars 102656-12-14 13:54 G 39215741.97 39215742.08 39215742.18 0.1634 0.0590

Jupiter 102657-03-09 01:54 G 39215826.46 39215826.58 39215826.69 0.0512 0.0197

Saturn 102658-01-09 23:45 G 39216133.46 39216133.49 39216133.52 0.0268 0.0264

Saturn 102658-04-08 22:04 G 39216222.24 39216222.42 39216222.61 0.0268 0.0075

Saturn 102658-07-06 20:23 G 39216311.18 39216311.35 39216311.53 0.0269 0.0117

Mars 102658-11-19 15:35 G 39216447.10 39216447.15 39216447.21 0.1615 0.1397

Earth 102663-03-19 19:11 G 39218028.23 39218028.30 39218028.37 0.2645 0.1964

Moon 102663-03-19 19:54 G 39218028.26 39218028.33 39218028.39 0.2643 0.2063 *

Jupiter 102663-04-27 22:47 G 39218067.26 39218067.45 39218067.63 0.0514 0.0052

Mars 102665-07-05 16:47 G 39218867.11 39218867.20 39218867.29 0.1907 0.1621

Mars 102666-05-07 01:25 G 39219172.47 39219172.56 39219172.64 0.1639 0.1085

Mars 102668-04-11 03:06 G 39219877.54 39219877.63 39219877.73 0.1620 0.0922

Jupiter 102668-12-26 06:42 G 39220136.65 39220136.78 39220136.90 0.0512 0.0045

Moon 102670-03-12 20:52 G 39220578.32 39220578.37 39220578.42 0.2655 0.2322

Earth 102670-03-12 20:52 G 39220578.32 39220578.37 39220578.43 0.2649 0.2242 *

Saturn 102671-08-21 13:40 G 39221104.97 39221105.07 39221105.17 0.0295 0.0183

Saturn 102671-11-18 01:40 G 39221193.44 39221193.57 39221193.70 0.0294 0.0016

Saturn 102672-02-14 13:25 G 39221281.95 39221282.06 39221282.17 0.0293 0.0149

Venus 102672-09-14 22:18 G 39221495.28 39221495.43 39221495.58 0.3726 0.1354

Jupiter 102675-02-13 17:59 G 39222377.08 39222377.25 39222377.42 0.0514 0.0201

Mars 102675-09-27 12:42 G 39222603.00 39222603.03 39222603.06 0.1644 0.1582

Mars 102677-09-01 14:52 G 39223308.00 39223308.12 39223308.23 0.1624 0.0446

Uranus 102678-06-28 22:04 G 39223608.39 39223608.42 39223608.47 0.0137 0.0134

Uranus 102678-09-25 05:59 G 39223696.63 39223696.75 39223696.87 0.0137 0.0106

Uranus 102678-12-22 13:25 G 39223784.91 39223785.06 39223785.23 0.0137 0.0078

Uranus 102679-03-20 21:21 G 39223873.22 39223873.39 39223873.58 0.0137 0.0050

Uranus 102679-06-17 05:16 G 39223961.53 39223961.72 39223961.91 0.0137 0.0022

Uranus 102679-09-13 12:57 G 39224049.85 39224050.04 39224050.24 0.0137 0.0006

Earth 102679-09-17 19:11 G 39224054.14 39224054.30 39224054.46 0.2685 0.0544

Moon 102679-09-17 21:06 G 39224054.22 39224054.38 39224054.54 0.2686 0.0324 *

Uranus 102679-12-10 20:37 G 39224138.18 39224138.36 39224138.55 0.0137 0.0034

Uranus 102680-03-08 04:18 G 39224226.51 39224226.68 39224226.86 0.0137 0.0062

Uranus 102680-06-04 11:59 G 39224314.86 39224315.00 39224315.16 0.0137 0.0090

Uranus 102680-08-31 19:40 G 39224403.24 39224403.32 39224403.43 0.0137 0.0118

Jupiter 102680-10-14 11:45 G 39224446.86 39224446.99 39224447.11 0.0512 0.0107

Venus 102682-03-24 16:18 G 39224973.17 39224973.18 39224973.20 0.3653 0.3574

Earth 102683-03-15 13:54 G 39225328.98 39225329.08 39225329.18 0.2647 0.0739

Moon 102683-03-15 14:09 G 39225328.99 39225329.09 39225329.20 0.2654 0.0633 *

Mars 102686-03-25 10:04 G 39226434.89 39226434.92 39226434.96 0.1923 0.1863

Jupiter 102686-12-02 14:23 G 39226687.01 39226687.10 39226687.21 0.0513 0.0432

Mars 102687-01-23 02:23 G 39226738.48 39226738.60 39226738.71 0.1629 0.0077

Saturn 102687-08-26 19:54 G 39226954.17 39226954.33 39226954.50 0.0267 0.0135

Venus 102687-10-08 07:40 G 39226996.73 39226996.82 39226996.91 0.3650 0.1775

Saturn 102687-11-23 18:13 G 39227043.08 39227043.26 39227043.45 0.0268 0.0055

Saturn 102688-02-20 16:47 G 39227132.13 39227132.20 39227132.28 0.0269 0.0247

Jupiter 102692-08-02 16:04 G 39228757.07 39228757.17 39228757.28 0.0513 0.0266

Jupiter 102692-10-30 19:54 G 39228846.24 39228846.33 39228846.42 0.0511 0.0356

Venus 102693-04-22 22:47 G 39229020.35 39229020.45 39229020.55 0.3647 0.0039

Mars 102695-08-15 01:40 G 39229864.40 39229864.57 39229864.74 0.1915 0.0172

Earth 102696-03-17 06:57 G 39230079.69 39230079.79 39230079.89 0.2646 0.0768

Moon 102696-03-17 07:40 G 39230079.72 39230079.82 39230079.92 0.2647 0.0823 *

Mars 102696-06-14 13:54 G 39230168.97 39230169.08 39230169.19 0.1634 0.0527

Mars 102698-05-20 15:35 G 39230874.10 39230874.15 39230874.20 0.1615 0.1456

Venus 102698-11-06 13:54 G 39231043.99 39231044.08 39231044.16 0.3645 0.1763

Jupiter 102698-12-20 01:40 G 39231087.42 39231087.57 39231087.72 0.0515 0.0309

Saturn 102701-01-08 15:06 G 39231837.06 39231837.13 39231837.20 0.0295 0.0245

Saturn 102701-04-07 02:52 G 39231925.50 39231925.62 39231925.75 0.0294 0.0077

Saturn 102701-07-04 14:37 G 39232013.99 39232014.11 39232014.24 0.0293 0.0089

Saturn 102701-10-01 02:23 G 39232102.54 39232102.60 39232102.66 0.0292 0.0252

Jupiter 102704-05-22 20:37 G 39233067.30 39233067.36 39233067.43 0.0514 0.0425

Venus 102704-05-23 04:47 G 39233067.68 39233067.70 39233067.73 0.3642 0.3501

Jupiter 102704-08-20 00:42 G 39233156.41 39233156.53 39233156.64 0.0511 0.0203

Mars 102705-01-04 17:59 G 39233294.15 39233294.25 39233294.36 0.1908 0.1461

Mars 102705-11-06 01:11 G 39233599.46 39233599.55 39233599.64 0.1639 0.1024

Mars 102707-10-12 03:21 G 39234304.54 39234304.64 39234304.73 0.1619 0.0986

Earth 102709-03-20 23:59 G 39234830.44 39234830.50 39234830.55 0.2645 0.2272

Moon 102709-03-21 00:28 G 39234830.48 39234830.52 39234830.56 0.2642 0.2390 *

Jupiter 102710-10-08 21:21 G 39235397.21 39235397.39 39235397.58 0.0514 0.0064

Mars 102715-03-29 12:42 G 39237029.99 39237030.03 39237030.07 0.1644 0.1525

Moon 102716-03-14 01:40 G 39237380.49 39237380.57 39237380.64 0.2656 0.1907

Earth 102716-03-14 01:40 G 39237380.50 39237380.57 39237380.64 0.2649 0.1937 *

Jupiter 102716-06-08 05:16 G 39237466.60 39237466.72 39237466.85 0.0512 0.0052

Saturn 102717-01-13 18:28 G 39237686.14 39237686.27 39237686.40 0.0268 0.0193

Mars 102717-03-03 14:37 G 39237735.00 39237735.11 39237735.22 0.1624 0.0505

Saturn 102717-04-12 16:47 G 39237775.01 39237775.20 39237775.39 0.0268 0.0004

Saturn 102717-07-10 15:06 G 39237864.00 39237864.13 39237864.27 0.0269 0.0188

Uranus 102721-06-28 17:30 G 39239313.19 39239313.23 39239313.28 0.0141 0.0131

Uranus 102721-09-24 20:52 G 39239401.29 39239401.37 39239401.45 0.0141 0.0111

Uranus 102721-12-22 00:13 G 39239489.41 39239489.51 39239489.61 0.0141 0.0090

Uranus 102722-03-20 03:35 G 39239577.54 39239577.65 39239577.77 0.0141 0.0070

Uranus 102722-06-16 06:57 G 39239665.67 39239665.79 39239665.92 0.0141 0.0050

Jupiter 102722-07-27 17:16 G 39239707.05 39239707.22 39239707.40 0.0513 0.0179

Uranus 102722-09-12 10:18 G 39239753.81 39239753.93 39239754.06 0.0141 0.0030

Uranus 102722-12-09 13:40 G 39239841.94 39239842.07 39239842.21 0.0141 0.0011

Uranus 102723-03-07 17:16 G 39239930.09 39239930.22 39239930.35 0.0141 0.0012

Uranus 102723-06-03 20:37 G 39240018.23 39240018.36 39240018.48 0.0141 0.0032

Uranus 102723-08-30 23:45 G 39240106.38 39240106.49 39240106.62 0.0141 0.0053

Uranus 102723-11-27 03:21 G 39240194.53 39240194.64 39240194.75 0.0141 0.0073

Uranus 102724-02-23 06:42 G 39240282.68 39240282.78 39240282.88 0.0141 0.0094

Neptune 102724-04-04 16:47 G 39240324.19 39240324.20 39240324.26 0.0089 0.0089

Uranus 102724-05-21 09:49 G 39240370.85 39240370.91 39240371.00 0.0142 0.0115

Neptune 102724-07-01 20:37 G 39240412.29 39240412.36 39240412.48 0.0089 0.0078

Uranus 102724-08-17 13:25 G 39240459.03 39240459.06 39240459.10 0.0142 0.0135

Neptune 102724-09-28 00:42 G 39240500.41 39240500.53 39240500.67 0.0089 0.0067

Neptune 102724-12-25 04:47 G 39240588.55 39240588.70 39240588.85 0.0089 0.0056

Neptune 102725-03-23 08:09 G 39240676.69 39240676.84 39240677.03 0.0090 0.0046

Neptune 102725-06-19 12:13 G 39240764.83 39240765.01 39240765.20 0.0090 0.0034

Neptune 102725-09-15 16:04 G 39240852.98 39240853.17 39240853.36 0.0090 0.0024

Earth 102725-09-19 02:09 G 39240856.43 39240856.59 39240856.76 0.2685 0.0189

Moon 102725-09-19 04:04 G 39240856.51 39240856.67 39240856.83 0.2684 0.0560 *

Neptune 102725-12-12 19:54 G 39240941.14 39240941.33 39240941.53 0.0090 0.0013

Neptune 102726-03-10 23:45 G 39241029.29 39241029.49 39241029.69 0.0090 0.0002

Neptune 102726-06-07 03:35 G 39241117.45 39241117.65 39241117.85 0.0090 0.0009

Mars 102726-07-25 02:09 G 39241165.48 39241165.59 39241165.71 0.1629 0.0064

Neptune 102726-09-03 07:11 G 39241205.62 39241205.80 39241206.00 0.0090 0.0020

Neptune 102726-11-30 11:01 G 39241293.78 39241293.96 39241294.15 0.0090 0.0030

Neptune 102727-02-26 14:37 G 39241381.95 39241382.11 39241382.30 0.0090 0.0042

Neptune 102727-05-25 18:42 G 39241470.13 39241470.28 39241470.45 0.0090 0.0052

Neptune 102727-08-21 22:18 G 39241558.30 39241558.43 39241558.58 0.0090 0.0063

Neptune 102727-11-18 02:09 G 39241646.49 39241646.59 39241646.71 0.0090 0.0074

Neptune 102728-02-14 05:45 G 39241734.70 39241734.74 39241734.83 0.0090 0.0085

Jupiter 102728-03-27 10:18 G 39241776.81 39241776.93 39241777.06 0.0513 0.0103

Earth 102729-03-16 18:42 G 39242131.17 39242131.28 39242131.38 0.2647 0.0431

Moon 102729-03-16 18:57 G 39242131.19 39242131.29 39242131.40 0.2652 0.0430 *

Venus 102729-04-23 01:11 G 39242168.40 39242168.55 39242168.71 0.3728 0.0945

Saturn 102730-05-28 17:01 G 39242569.21 39242569.21 39242569.23 0.0296 0.0294

Saturn 102730-08-25 05:16 G 39242657.60 39242657.72 39242657.83 0.0295 0.0125

Saturn 102730-11-21 17:01 G 39242746.08 39242746.21 39242746.34 0.0294 0.0042

Saturn 102731-02-18 04:33 G 39242834.61 39242834.69 39242834.79 0.0293 0.0206

Jupiter 102734-05-15 12:28 G 39244016.92 39244017.02 39244017.12 0.0513 0.0432

Mars 102735-02-14 03:06 G 39244291.46 39244291.63 39244291.79 0.1916 0.0338

Mars 102735-12-15 13:40 G 39244595.96 39244596.07 39244596.19 0.1634 0.0475

Mars 102737-11-19 15:35 G 39245301.11 39245301.15 39245301.19 0.1615 0.1517

Venus 102738-10-30 13:40 G 39245646.01 39245646.07 39245646.13 0.3652 0.2951

Jupiter 102740-01-14 15:21 G 39246087.03 39246087.14 39246087.25 0.0513 0.0252

Jupiter 102740-04-12 19:11 G 39246176.21 39246176.30 39246176.38 0.0510 0.0370

Earth 102742-03-19 11:45 G 39246881.89 39246881.99 39246882.08 0.2646 0.1080

Moon 102742-03-19 12:13 G 39246881.92 39246882.01 39246882.11 0.2646 0.1264 *

Venus 102744-05-15 05:01 G 39247669.61 39247669.71 39247669.80 0.3649 0.1158

Mars 102744-07-05 18:42 G 39247721.16 39247721.28 39247721.40 0.1907 0.1342

Mars 102745-05-07 01:11 G 39248026.46 39248026.55 39248026.64 0.1639 0.0966

Jupiter 102746-06-01 23:45 G 39248417.35 39248417.49 39248417.64 0.0515 0.0312

Saturn 102746-06-02 16:04 G 39248418.12 39248418.17 39248418.23 0.0266 0.0254

Saturn 102746-08-30 14:09 G 39248506.91 39248507.09 39248507.28 0.0267 0.0068

Saturn 102746-11-27 12:28 G 39248595.86 39248596.02 39248596.20 0.0268 0.0123

Mars 102747-04-12 03:06 G 39248731.54 39248731.63 39248731.72 0.1619 0.1042

Venus 102749-11-28 20:09 G 39249693.24 39249693.34 39249693.44 0.3647 0.0625

Jupiter 102751-11-02 19:54 G 39250397.26 39250397.33 39250397.41 0.0513 0.0411

Jupiter 102752-01-30 23:45 G 39250486.38 39250486.49 39250486.61 0.0511 0.0215

Mars 102754-09-27 12:42 G 39251456.98 39251457.03 39251457.08 0.1644 0.1462

Earth 102755-03-22 04:33 G 39251632.67 39251632.69 39251632.71 0.2645 0.2582

Moon 102755-03-22 05:01 G 39251632.70 39251632.71 39251632.73 0.2640 0.2608 *

Venus 102755-06-14 11:16 G 39251716.89 39251716.97 39251717.04 0.3644 0.2369

Mars 102756-09-01 14:37 G 39252162.00 39252162.11 39252162.22 0.1624 0.0566

Jupiter 102758-03-20 20:23 G 39252727.16 39252727.35 39252727.53 0.0514 0.0078

Moon 102758-09-17 01:11 G 39252907.51 39252907.55 39252907.58 0.2687 0.2619

Pluto 102759-03-20 21:06 G 39253092.33 39253092.38 39253092.49 0.0060 0.0054

Pluto 102759-06-16 22:33 G 39253180.33 39253180.44 39253180.59 0.0060 0.0044

Pluto 102759-09-12 23:59 G 39253268.36 39253268.50 39253268.67 0.0060 0.0034

Pluto 102759-12-10 01:25 G 39253356.39 39253356.56 39253356.74 0.0060 0.0024

Saturn 102760-01-12 05:59 G 39253389.66 39253389.75 39253389.85 0.0295 0.0192

Pluto 102760-03-07 02:52 G 39253444.43 39253444.62 39253444.81 0.0060 0.0014

Saturn 102760-04-09 17:59 G 39253478.12 39253478.25 39253478.38 0.0294 0.0025

Pluto 102760-06-03 04:04 G 39253532.48 39253532.67 39253532.87 0.0060 0.0005

Saturn 102760-07-07 05:45 G 39253566.63 39253566.74 39253566.85 0.0293 0.0142

Pluto 102760-08-30 05:16 G 39253620.54 39253620.72 39253620.92 0.0060 0.0006

Pluto 102760-11-26 06:28 G 39253708.60 39253708.77 39253708.97 0.0060 0.0016

Pluto 102761-02-22 07:40 G 39253796.66 39253796.82 39253797.01 0.0060 0.0026

Pluto 102761-05-21 09:21 G 39253884.74 39253884.89 39253885.04 0.0060 0.0036

Pluto 102761-08-17 10:04 G 39253972.82 39253972.92 39253973.07 0.0060 0.0047

Pluto 102761-11-13 11:16 G 39254060.93 39254060.97 39254061.07 0.0060 0.0057

Moon 102762-03-15 06:28 G 39254182.68 39254182.77 39254182.85 0.2656 0.1653

Earth 102762-03-15 06:13 G 39254182.68 39254182.76 39254182.85 0.2648 0.1630 *

Uranus 102762-07-20 05:30 G 39254309.66 39254309.73 39254309.82 0.0137 0.0126

Uranus 102762-10-16 13:25 G 39254397.93 39254398.06 39254398.20 0.0137 0.0098

Uranus 102763-01-12 20:52 G 39254486.22 39254486.37 39254486.55 0.0137 0.0070

Uranus 102763-04-11 04:47 G 39254574.52 39254574.70 39254574.89 0.0137 0.0042

Uranus 102763-07-08 12:42 G 39254662.84 39254663.03 39254663.22 0.0137 0.0014

Uranus 102763-10-04 20:23 G 39254751.16 39254751.35 39254751.55 0.0137 0.0014

Jupiter 102763-11-19 04:33 G 39254796.56 39254796.69 39254796.82 0.0512 0.0061

Uranus 102764-01-01 04:04 G 39254839.49 39254839.67 39254839.86 0.0137 0.0042

Uranus 102764-03-29 11:45 G 39254927.83 39254927.99 39254928.17 0.0137 0.0070

Uranus 102764-06-25 19:25 G 39255016.18 39255016.31 39255016.46 0.0137 0.0098

Uranus 102764-09-22 03:06 G 39255104.57 39255104.63 39255104.72 0.0137 0.0126

Mars 102766-01-23 02:09 G 39255592.48 39255592.59 39255592.71 0.1628 0.0097

Jupiter 102770-01-06 16:18 G 39257037.01 39257037.18 39257037.36 0.0513 0.0162

Earth 102771-09-20 09:21 G 39257658.73 39257658.89 39257659.04 0.2686 0.0932

Moon 102771-09-20 11:01 G 39257658.81 39257658.96 39257659.11 0.2683 0.1088 *

Mars 102774-08-15 04:04 G 39258718.50 39258718.67 39258718.83 0.1916 0.0480

Earth 102775-03-17 23:16 G 39258933.37 39258933.47 39258933.58 0.2647 0.0158

Moon 102775-03-17 23:59 G 39258933.39 39258933.50 39258933.60 0.2651 0.0091 *

Mars 102775-06-15 13:40 G 39259022.96 39259023.07 39259023.18 0.1633 0.0414

Jupiter 102775-09-07 09:21 G 39259106.76 39259106.89 39259107.01 0.0513 0.0096

Saturn 102776-01-17 12:13 G 39259238.85 39259239.01 39259239.18 0.0268 0.0129

Saturn 102776-04-15 10:33 G 39259327.75 39259327.94 39259328.13 0.0268 0.0061

Saturn 102776-07-13 08:52 G 39259416.81 39259416.87 39259416.94 0.0269 0.0252

Mars 102777-05-20 15:35 G 39259728.13 39259728.15 39259728.17 0.1615 0.1578

Jupiter 102781-10-25 12:13 G 39261346.90 39261347.01 39261347.13 0.0513 0.0401

Mars 102784-01-04 19:54 G 39262148.19 39262148.33 39262148.46 0.1908 0.1189

Mars 102784-11-05 01:11 G 39262453.46 39262453.55 39262453.65 0.1639 0.0907

Venus 102785-11-28 04:18 G 39262841.61 39262841.68 39262841.76 0.3729 0.3264

Mars 102786-10-11 03:06 G 39263158.55 39263158.63 39263158.71 0.1619 0.1101

Jupiter 102787-06-26 14:09 G 39263416.98 39263417.09 39263417.21 0.0513 0.0246

Jupiter 102787-09-23 17:59 G 39263506.17 39263506.25 39263506.34 0.0511 0.0377

Earth 102788-03-19 16:18 G 39263684.09 39263684.18 39263684.27 0.2646 0.1387

Moon 102788-03-19 17:01 G 39263684.12 39263684.21 39263684.30 0.2646 0.1437 *

Saturn 102789-05-31 07:54 G 39264121.76 39264121.83 39264121.90 0.0296 0.0243

Saturn 102789-08-27 19:54 G 39264210.20 39264210.33 39264210.45 0.0295 0.0075

Saturn 102789-11-24 07:40 G 39264298.70 39264298.82 39264298.94 0.0294 0.0091

Saturn 102790-02-20 19:11 G 39264387.25 39264387.30 39264387.37 0.0293 0.0256

Jupiter 102793-11-11 22:04 G 39265747.28 39265747.42 39265747.57 0.0515 0.0316

Mars 102794-03-28 12:42 G 39265883.97 39265884.03 39265884.08 0.1644 0.1410

Venus 102795-06-06 11:01 G 39266318.89 39266318.96 39266319.04 0.3651 0.2327

Mars 102796-03-02 14:37 G 39266589.00 39266589.11 39266589.22 0.1624 0.0622

Jupiter 102799-04-14 19:11 G 39267727.23 39267727.30 39267727.39 0.0513 0.0394

Jupiter 102799-07-12 23:16 G 39267816.35 39267816.47 39267816.58 0.0511 0.0233

Venus 102800-12-20 02:09 G 39268342.49 39268342.59 39268342.70 0.3648 0.0571

Earth 102804-09-17 06:28 G 39269709.68 39269709.77 39269709.86 0.2684 0.2241

Moon 102804-09-17 08:23 G 39269709.74 39269709.85 39269709.95 0.2685 0.2066 *

Neptune 102804-10-28 19:40 G 39269751.31 39269751.32 39269751.34 0.0088 0.0087

Neptune 102805-01-24 20:52 G 39269839.33 39269839.37 39269839.43 0.0088 0.0080

Neptune 102805-04-22 22:18 G 39269927.36 39269927.43 39269927.50 0.0088 0.0073

Saturn 102805-06-05 09:49 G 39269970.78 39269970.91 39269971.05 0.0266 0.0190

Uranus 102805-07-19 00:28 G 39270014.47 39270014.52 39270014.58 0.0141 0.0127

Neptune 102805-07-19 23:16 G 39270015.40 39270015.47 39270015.57 0.0088 0.0067

Mars 102805-07-24 02:09 G 39270019.48 39270019.59 39270019.71 0.1628 0.0139

Jupiter 102805-08-30 18:42 G 39270057.09 39270057.28 39270057.46 0.0515 0.0084

Saturn 102805-09-02 08:09 G 39270059.65 39270059.84 39270060.03 0.0267 0.0004

Uranus 102805-10-15 03:49 G 39270102.58 39270102.66 39270102.75 0.0141 0.0107

Neptune 102805-10-16 00:42 G 39270103.44 39270103.53 39270103.63 0.0088 0.0060

Saturn 102805-11-30 06:13 G 39270148.63 39270148.76 39270148.91 0.0268 0.0187

Uranus 102806-01-11 07:25 G 39270190.71 39270190.81 39270190.91 0.0141 0.0086

Neptune 102806-01-12 01:54 G 39270191.48 39270191.58 39270191.69 0.0088 0.0053

Uranus 102806-04-09 10:47 G 39270278.83 39270278.95 39270279.06 0.0141 0.0066

Neptune 102806-04-10 03:21 G 39270279.53 39270279.64 39270279.75 0.0088 0.0046

Venus 102806-07-05 17:30 G 39270366.13 39270366.23 39270366.32 0.3646 0.1228

Uranus 102806-07-06 13:54 G 39270366.96 39270367.08 39270367.21 0.0141 0.0046

Neptune 102806-07-07 04:33 G 39270367.58 39270367.69 39270367.81 0.0088 0.0039

Uranus 102806-10-02 17:30 G 39270455.10 39270455.23 39270455.36 0.0141 0.0025

Neptune 102806-10-03 05:45 G 39270455.62 39270455.74 39270455.87 0.0088 0.0033

Uranus 102806-12-29 20:52 G 39270543.24 39270543.37 39270543.50 0.0141 0.0005

Neptune 102806-12-30 06:57 G 39270543.67 39270543.79 39270543.92 0.0088 0.0026

Uranus 102807-03-28 00:13 G 39270631.38 39270631.51 39270631.64 0.0141 0.0016

Neptune 102807-03-28 08:23 G 39270631.72 39270631.85 39270631.98 0.0088 0.0019

Uranus 102807-06-24 03:35 G 39270719.53 39270719.65 39270719.78 0.0141 0.0036

Neptune 102807-06-24 09:35 G 39270719.77 39270719.90 39270720.03 0.0088 0.0012 *

Uranus 102807-09-20 06:57 G 39270807.67 39270807.79 39270807.91 0.0141 0.0057

Neptune 102807-09-20 10:47 G 39270807.82 39270807.95 39270808.09 0.0088 0.0006 *

Uranus 102807-12-17 10:18 G 39270895.82 39270895.93 39270896.04 0.0141 0.0077

Neptune 102807-12-17 11:59 G 39270895.87 39270896.00 39270896.14 0.0088 0.0004 *

Neptune 102808-03-14 13:25 G 39270983.93 39270984.06 39270984.19 0.0088 0.0009

Uranus 102808-03-14 13:40 G 39270983.98 39270984.07 39270984.17 0.0141 0.0098 *

Moon 102808-03-15 11:16 G 39270984.87 39270984.97 39270985.06 0.2655 0.1300

Earth 102808-03-15 11:01 G 39270984.87 39270984.96 39270985.05 0.2648 0.1321 *

Neptune 102808-06-10 14:37 G 39271071.98 39271072.11 39271072.24 0.0088 0.0015

Uranus 102808-06-10 17:01 G 39271072.15 39271072.21 39271072.29 0.0141 0.0119 *

Neptune 102808-09-06 15:49 G 39271160.03 39271160.16 39271160.29 0.0088 0.0022

Uranus 102808-09-06 20:37 G 39271160.34 39271160.36 39271160.38 0.0142 0.0139

Neptune 102808-12-03 17:01 G 39271248.09 39271248.21 39271248.34 0.0088 0.0029

Neptune 102809-03-01 18:13 G 39271336.15 39271336.26 39271336.39 0.0088 0.0036

Neptune 102809-05-28 19:25 G 39271424.20 39271424.31 39271424.43 0.0088 0.0043

Neptune 102809-08-24 20:37 G 39271512.26 39271512.36 39271512.48 0.0088 0.0050

Neptune 102809-11-20 22:04 G 39271600.32 39271600.42 39271600.52 0.0088 0.0056

Neptune 102810-02-16 23:16 G 39271688.38 39271688.47 39271688.56 0.0088 0.0063

Neptune 102810-05-16 00:28 G 39271776.45 39271776.52 39271776.60 0.0088 0.0070

Neptune 102810-08-12 01:25 G 39271864.51 39271864.56 39271864.64 0.0088 0.0077

Neptune 102810-11-08 03:06 G 39271952.59 39271952.63 39271952.67 0.0088 0.0083

Jupiter 102811-05-01 03:49 G 39272126.54 39272126.66 39272126.79 0.0512 0.0077

Venus 102812-01-19 08:23 G 39272389.80 39272389.85 39272389.91 0.3643 0.2961

Mars 102814-02-13 04:47 G 39273145.54 39273145.70 39273145.86 0.1916 0.0610

Mars 102814-12-14 13:40 G 39273449.96 39273450.07 39273450.19 0.1633 0.0354

Jupiter 102817-06-18 15:21 G 39274366.96 39274367.14 39274367.32 0.0514 0.0145

Earth 102817-09-20 16:18 G 39274461.05 39274461.18 39274461.30 0.2686 0.1662

Moon 102817-09-20 17:59 G 39274461.15 39274461.25 39274461.35 0.2683 0.2060 *

Saturn 102819-01-14 20:23 G 39274942.24 39274942.35 39274942.46 0.0295 0.0146

Saturn 102819-04-13 08:23 G 39275030.72 39275030.85 39275030.98 0.0294 0.0022

Saturn 102819-07-10 20:09 G 39275119.24 39275119.34 39275119.44 0.0293 0.0187

Earth 102821-03-18 04:04 G 39275735.56 39275735.67 39275735.78 0.2647 0.0188

Moon 102821-03-18 04:47 G 39275735.59 39275735.70 39275735.80 0.2650 0.0281 *

Jupiter 102823-02-17 08:37 G 39276436.73 39276436.86 39276436.98 0.0512 0.0078

Mars 102823-07-05 20:52 G 39276575.23 39276575.37 39276575.51 0.1908 0.1041

Mars 102824-05-06 01:11 G 39276880.45 39276880.55 39276880.65 0.1638 0.0849

Mars 102826-04-11 03:06 G 39277585.55 39277585.63 39277585.71 0.1619 0.1165

Jupiter 102829-04-06 11:30 G 39278676.86 39278676.98 39278677.11 0.0513 0.0381

Mars 102833-09-26 12:28 G 39280310.96 39280311.02 39280311.09 0.1644 0.1352

Earth 102834-03-20 21:06 G 39280486.30 39280486.38 39280486.46 0.2646 0.1695

Moon 102834-03-20 21:35 G 39280486.33 39280486.40 39280486.48 0.2644 0.1854 *

Saturn 102834-10-23 07:25 G 39280702.76 39280702.81 39280702.87 0.0267 0.0255

Jupiter 102834-12-06 13:11 G 39280746.94 39280747.05 39280747.17 0.0513 0.0235

Saturn 102835-01-20 05:30 G 39280791.55 39280791.73 39280791.92 0.0267 0.0069

Jupiter 102835-03-05 17:01 G 39280836.13 39280836.21 39280836.29 0.0511 0.0387

Saturn 102835-04-19 03:49 G 39280880.49 39280880.66 39280880.83 0.0268 0.0121

Mars 102835-09-01 14:37 G 39281016.00 39281016.11 39281016.21 0.1623 0.0683

Venus 102836-12-18 18:42 G 39281490.14 39281490.28 39281490.42 0.3725 0.1840

Moon 102841-03-13 22:33 G 39283036.42 39283036.44 39283036.46 0.2656 0.2603

Earth 102841-03-13 22:47 G 39283036.42 39283036.45 39283036.48 0.2649 0.2515 *

Jupiter 102841-04-23 22:18 G 39283077.30 39283077.43 39283077.57 0.0515 0.0352

Mars 102845-01-22 02:09 G 39284446.47 39284446.59 39284446.70 0.1628 0.0197

Venus 102846-06-27 17:16 G 39284968.19 39284968.22 39284968.24 0.3653 0.3507

Uranus 102846-08-09 12:13 G 39285010.93 39285011.01 39285011.12 0.0137 0.0120

Jupiter 102846-09-24 18:13 G 39285057.18 39285057.26 39285057.34 0.0514 0.0384

Uranus 102846-11-05 19:54 G 39285099.20 39285099.33 39285099.49 0.0137 0.0092

Jupiter 102846-12-22 22:04 G 39285146.31 39285146.42 39285146.54 0.0511 0.0242

Uranus 102847-02-02 03:49 G 39285187.49 39285187.66 39285187.84 0.0137 0.0064

Uranus 102847-05-01 11:45 G 39285275.80 39285275.99 39285276.18 0.0137 0.0036

Uranus 102847-07-28 19:25 G 39285364.12 39285364.31 39285364.51 0.0137 0.0008

Uranus 102847-10-25 03:06 G 39285452.44 39285452.63 39285452.83 0.0137 0.0020

Uranus 102848-01-21 10:47 G 39285540.77 39285540.95 39285541.14 0.0137 0.0048

Uranus 102848-04-18 18:28 G 39285629.12 39285629.27 39285629.44 0.0137 0.0076

Saturn 102848-06-02 22:04 G 39285674.33 39285674.42 39285674.52 0.0296 0.0201

Uranus 102848-07-16 02:09 G 39285717.48 39285717.59 39285717.73 0.0137 0.0104

Saturn 102848-08-30 10:04 G 39285762.79 39285762.92 39285763.05 0.0295 0.0032

Uranus 102848-10-12 10:04 G 39285805.87 39285805.92 39285805.98 0.0137 0.0131

Saturn 102848-11-26 21:49 G 39285851.30 39285851.41 39285851.53 0.0294 0.0134

Earth 102850-09-18 13:25 G 39286511.93 39286512.06 39286512.20 0.2684 0.1505

Moon 102850-09-18 15:21 G 39286511.99 39286512.14 39286512.29 0.2684 0.1156 *

Venus 102852-01-11 08:23 G 39286991.76 39286991.85 39286991.94 0.3650 0.1709

Jupiter 102853-02-09 17:01 G 39287387.03 39287387.21 39287387.40 0.0515 0.0092

Mars 102853-08-14 05:45 G 39287572.59 39287572.74 39287572.90 0.1916 0.0767

Earth 102854-03-16 15:49 G 39287787.06 39287787.16 39287787.26 0.2648 0.1010

Moon 102854-03-16 16:04 G 39287787.07 39287787.17 39287787.27 0.2654 0.0951 *

Pluto 102854-03-20 16:18 G 39287791.11 39287791.18 39287791.26 0.0084 0.0069

Mars 102854-06-14 13:40 G 39287876.96 39287877.07 39287877.18 0.1633 0.0294

Pluto 102854-06-16 17:30 G 39287879.13 39287879.23 39287879.34 0.0084 0.0050

Pluto 102854-09-12 18:42 G 39287967.16 39287967.28 39287967.41 0.0084 0.0031

Pluto 102854-12-09 20:09 G 39288055.21 39288055.34 39288055.47 0.0084 0.0012

Pluto 102855-03-07 21:21 G 39288143.25 39288143.39 39288143.52 0.0083 0.0007

Pluto 102855-06-03 22:33 G 39288231.31 39288231.44 39288231.57 0.0083 0.0026

Pluto 102855-08-30 23:30 G 39288319.37 39288319.48 39288319.60 0.0083 0.0045

Pluto 102855-11-27 00:42 G 39288407.45 39288407.53 39288407.62 0.0083 0.0063

Pluto 102856-02-23 02:09 G 39288495.57 39288495.59 39288495.61 0.0083 0.0081

Venus 102857-07-26 23:30 G 39289015.38 39289015.48 39289015.59 0.3648 0.0139

Jupiter 102858-10-11 03:21 G 39289456.52 39289456.64 39289456.77 0.0512 0.0097

Mars 102863-01-03 21:35 G 39291002.25 39291002.40 39291002.55 0.1908 0.0912

Venus 102863-02-09 14:37 G 39291039.03 39291039.11 39291039.20 0.3645 0.1828

Earth 102863-09-21 23:16 G 39291263.40 39291263.47 39291263.54 0.2686 0.2412

Moon 102863-09-22 00:57 G 39291263.49 39291263.54 39291263.59 0.2683 0.2543 *

Mars 102863-11-05 01:11 G 39291307.45 39291307.55 39291307.65 0.1638 0.0790

Saturn 102864-06-08 03:06 G 39291523.47 39291523.63 39291523.81 0.0266 0.0131

Saturn 102864-09-05 01:25 G 39291612.38 39291612.56 39291612.75 0.0267 0.0058

Jupiter 102864-11-28 13:40 G 39291696.89 39291697.07 39291697.25 0.0514 0.0139

Saturn 102864-12-02 23:30 G 39291701.42 39291701.48 39291701.56 0.0268 0.0248

Mars 102865-10-10 03:06 G 39292012.55 39292012.63 39292012.70 0.1619 0.1224

Earth 102867-03-19 08:52 G 39292537.76 39292537.87 39292537.97 0.2647 0.0501

Moon 102867-03-19 09:21 G 39292537.79 39292537.89 39292538.00 0.2649 0.0626 *

Venus 102868-08-25 05:45 G 39293062.72 39293062.74 39293062.76 0.3642 0.3555

Jupiter 102870-07-30 08:09 G 39293766.71 39293766.84 39293766.96 0.0512 0.0060

Mars 102873-03-27 12:28 G 39294737.96 39294738.02 39294738.09 0.1644 0.1291

Mars 102875-03-02 14:37 G 39295443.01 39295443.11 39295443.21 0.1624 0.0745

Jupiter 102876-09-16 10:33 G 39296006.81 39296006.94 39296007.07 0.0513 0.0364

Saturn 102877-10-20 22:33 G 39296406.40 39296406.44 39296406.49 0.0296 0.0274

Saturn 102878-01-17 10:33 G 39296494.82 39296494.94 39296495.06 0.0295 0.0105

Saturn 102878-04-15 22:33 G 39296583.31 39296583.44 39296583.56 0.0294 0.0063

Saturn 102878-07-13 10:04 G 39296671.85 39296671.92 39296672.01 0.0293 0.0229

Earth 102880-03-21 01:40 G 39297288.51 39297288.57 39297288.64 0.2646 0.2005

Moon 102880-03-21 02:23 G 39297288.53 39297288.60 39297288.66 0.2642 0.2057 *

Jupiter 102882-05-18 12:42 G 39298076.92 39298077.03 39298077.15 0.0513 0.0215

Jupiter 102882-08-15 16:33 G 39298166.11 39298166.19 39298166.26 0.0510 0.0405

Mars 102884-07-23 02:09 G 39298873.48 39298873.59 39298873.70 0.1628 0.0260

Moon 102887-03-15 03:21 G 39299838.58 39299838.64 39299838.70 0.2656 0.2182

Earth 102887-03-15 03:35 G 39299838.59 39299838.65 39299838.70 0.2649 0.2209 *

Jupiter 102888-10-03 21:35 G 39300407.28 39300407.40 39300407.53 0.0515 0.0374

Neptune 102888-12-30 15:21 G 39300495.09 39300495.14 39300495.23 0.0089 0.0084

Neptune 102889-03-28 19:25 G 39300583.21 39300583.31 39300583.43 0.0089 0.0073

Neptune 102889-06-24 23:30 G 39300671.34 39300671.48 39300671.62 0.0089 0.0062

Uranus 102889-08-08 07:25 G 39300715.76 39300715.81 39300715.88 0.0141 0.0124

Neptune 102889-09-21 02:52 G 39300759.47 39300759.62 39300759.80 0.0089 0.0052

Uranus 102889-11-04 11:01 G 39300803.87 39300803.96 39300804.05 0.0141 0.0103

Neptune 102889-12-18 06:42 G 39300847.62 39300847.78 39300847.97 0.0089 0.0041

Uranus 102890-01-31 14:23 G 39300891.99 39300892.10 39300892.21 0.0141 0.0083

Neptune 102890-03-16 10:47 G 39300935.77 39300935.95 39300936.14 0.0089 0.0030

Uranus 102890-04-29 17:45 G 39300980.12 39300980.24 39300980.36 0.0141 0.0062

Neptune 102890-06-12 14:37 G 39301023.92 39301024.11 39301024.30 0.0090 0.0019

Uranus 102890-07-26 21:06 G 39301068.26 39301068.38 39301068.51 0.0141 0.0042

Neptune 102890-09-08 18:28 G 39301112.07 39301112.27 39301112.47 0.0090 0.0008

Uranus 102890-10-23 00:28 G 39301156.39 39301156.52 39301156.65 0.0141 0.0022

Neptune 102890-12-05 22:18 G 39301200.23 39301200.43 39301200.63 0.0090 0.0003

Uranus 102891-01-19 03:49 G 39301244.53 39301244.66 39301244.79 0.0141 0.0002

Neptune 102891-03-04 01:54 G 39301288.39 39301288.58 39301288.78 0.0090 0.0014

Uranus 102891-04-17 07:11 G 39301332.67 39301332.80 39301332.93 0.0141 0.0020

Neptune 102891-05-31 05:45 G 39301376.56 39301376.74 39301376.94 0.0090 0.0024

Uranus 102891-07-14 10:33 G 39301420.82 39301420.94 39301421.07 0.0141 0.0040

Neptune 102891-08-27 09:21 G 39301464.73 39301464.89 39301465.09 0.0090 0.0036

Uranus 102891-10-10 13:54 G 39301508.97 39301509.08 39301509.20 0.0141 0.0061

Neptune 102891-11-23 13:25 G 39301552.90 39301553.06 39301553.23 0.0090 0.0046

Uranus 102892-01-06 17:16 G 39301597.12 39301597.22 39301597.33 0.0141 0.0081

Neptune 102892-02-19 17:16 G 39301641.07 39301641.22 39301641.38 0.0090 0.0057

Uranus 102892-04-03 20:37 G 39301685.28 39301685.36 39301685.46 0.0141 0.0102

Neptune 102892-05-17 20:52 G 39301729.26 39301729.37 39301729.51 0.0090 0.0068

Uranus 102892-06-30 23:59 G 39301773.44 39301773.50 39301773.57 0.0141 0.0122

Neptune 102892-08-14 00:28 G 39301817.45 39301817.52 39301817.64 0.0090 0.0079

Neptune 102892-11-10 04:47 G 39301905.69 39301905.70 39301905.72 0.0090 0.0089

Mars 102893-02-12 06:57 G 39301999.64 39301999.79 39301999.93 0.1916 0.0917

Venus 102893-07-25 21:35 G 39302163.24 39302163.40 39302163.57 0.3726 0.0437

Saturn 102893-10-26 00:42 G 39302255.41 39302255.53 39302255.67 0.0267 0.0196

Mars 102893-12-13 13:40 G 39302303.95 39302304.07 39302304.18 0.1633 0.0238

Saturn 102894-01-22 23:01 G 39302344.26 39302344.46 39302344.65 0.0267 0.0009

Jupiter 102894-03-06 17:16 G 39302387.14 39302387.22 39302387.31 0.0514 0.0373

Saturn 102894-04-21 21:06 G 39302433.24 39302433.38 39302433.53 0.0268 0.0182

Jupiter 102894-06-03 21:06 G 39302476.28 39302476.38 39302476.50 0.0511 0.0253

Earth 102896-09-18 20:23 G 39303314.19 39303314.35 39303314.51 0.2685 0.0775

Moon 102896-09-18 22:18 G 39303314.27 39303314.43 39303314.59 0.2684 0.0509 *

Earth 102900-03-17 20:37 G 39304589.25 39304589.36 39304589.46 0.2648 0.0704

Moon 102900-03-17 20:52 G 39304589.27 39304589.37 39304589.48 0.2653 0.0674 *

Jupiter 102900-07-23 17:30 G 39304717.05 39304717.23 39304717.41 0.0514 0.0131

Mars 102902-07-05 22:33 G 39305429.29 39305429.44 39305429.60 0.1908 0.0767

Venus 102903-02-02 14:37 G 39305641.05 39305641.11 39305641.17 0.3652 0.2879

Mars 102903-05-07 00:57 G 39305734.44 39305734.54 39305734.65 0.1638 0.0734

Mars 102905-04-11 02:52 G 39306439.56 39306439.62 39306439.69 0.1619 0.1284

Jupiter 102906-03-24 02:23 G 39306786.48 39306786.60 39306786.73 0.0512 0.0107

Saturn 102907-06-07 12:13 G 39307226.90 39307227.01 39307227.12 0.0295 0.0161

Saturn 102907-09-03 23:59 G 39307315.37 39307315.50 39307315.63 0.0294 0.0010

Saturn 102907-12-01 11:59 G 39307403.89 39307404.00 39307404.10 0.0294 0.0174

Venus 102908-08-18 05:45 G 39307664.65 39307664.74 39307664.84 0.3650 0.1090

Jupiter 102912-05-11 12:13 G 39309026.83 39309027.01 39309027.19 0.0514 0.0130

Mars 102912-09-26 12:28 G 39309164.95 39309165.02 39309165.10 0.1644 0.1233

Earth 102913-03-20 13:25 G 39309339.96 39309340.06 39309340.17 0.2647 0.0812

Moon 102913-03-20 14:09 G 39309339.99 39309340.09 39309340.19 0.2648 0.0926 *

Venus 102914-03-03 20:52 G 39309688.27 39309688.37 39309688.47 0.3647 0.0692

Mars 102914-09-01 14:37 G 39309870.01 39309870.11 39309870.21 0.1623 0.0805

Jupiter 102918-01-10 07:40 G 39311096.69 39311096.82 39311096.94 0.0512 0.0041

Venus 102919-09-17 11:59 G 39311711.93 39311712.00 39311712.08 0.3644 0.2431

Saturn 102923-03-15 22:47 G 39312987.40 39312987.45 39312987.51 0.0266 0.0254

Saturn 102923-06-12 20:52 G 39313076.19 39313076.37 39313076.56 0.0266 0.0069

Saturn 102923-09-09 18:57 G 39313165.12 39313165.29 39313165.47 0.0267 0.0120

Mars 102924-01-23 02:09 G 39313300.47 39313300.59 39313300.70 0.1628 0.0321

Jupiter 102924-02-28 08:52 G 39313336.74 39313336.87 39313337.00 0.0513 0.0359

Earth 102926-03-23 06:28 G 39314090.72 39314090.77 39314090.82 0.2645 0.2313

Moon 102926-03-23 06:57 G 39314090.75 39314090.79 39314090.83 0.2640 0.2399 *

Jupiter 102929-10-29 12:13 G 39315406.89 39315407.01 39315407.13 0.0513 0.0194

Jupiter 102930-01-26 15:49 G 39315496.10 39315496.16 39315496.23 0.0510 0.0424

Uranus 102930-08-30 18:42 G 39315712.19 39315712.28 39315712.39 0.0137 0.0116

Uranus 102930-11-27 02:37 G 39315800.46 39315800.61 39315800.76 0.0137 0.0088

Uranus 102931-02-23 10:18 G 39315888.76 39315888.93 39315889.11 0.0137 0.0060

Uranus 102931-05-22 17:59 G 39315977.07 39315977.25 39315977.45 0.0137 0.0032

Uranus 102931-08-19 01:54 G 39316065.38 39316065.58 39316065.78 0.0137 0.0004

Uranus 102931-11-15 09:35 G 39316153.71 39316153.90 39316154.10 0.0137 0.0024

Uranus 102932-02-11 17:16 G 39316242.05 39316242.22 39316242.41 0.0137 0.0052

Uranus 102932-05-10 01:11 G 39316330.39 39316330.55 39316330.71 0.0137 0.0080

Uranus 102932-08-06 08:52 G 39316418.76 39316418.87 39316418.99 0.0137 0.0108

Mars 102932-08-14 07:25 G 39316426.67 39316426.81 39316426.95 0.1917 0.1039

Uranus 102932-11-02 16:33 G 39316507.18 39316507.19 39316507.22 0.0137 0.0136

Moon 102933-03-16 08:09 G 39316640.77 39316640.84 39316640.92 0.2655 0.1959

Earth 102933-03-16 08:09 G 39316640.77 39316640.84 39316640.92 0.2649 0.1898 *

Mars 102933-06-14 13:40 G 39316730.95 39316731.07 39316731.18 0.1633 0.0174

Jupiter 102936-03-16 20:23 G 39317737.24 39317737.35 39317737.48 0.0515 0.0391

Saturn 102936-10-24 12:28 G 39317958.95 39317959.02 39317959.10 0.0296 0.0235

Saturn 102937-01-21 00:28 G 39318047.40 39318047.52 39318047.65 0.0295 0.0065

Saturn 102937-04-19 12:28 G 39318135.90 39318136.02 39318136.14 0.0294 0.0103

Saturn 102937-07-16 23:59 G 39318224.46 39318224.50 39318224.56 0.0293 0.0268

Jupiter 102941-08-17 16:47 G 39319717.11 39319717.20 39319717.29 0.0513 0.0352

Jupiter 102941-11-14 20:37 G 39319806.26 39319806.36 39319806.47 0.0511 0.0272

Mars 102942-01-03 23:45 G 39319856.33 39319856.49 39319856.65 0.1909 0.0605

Earth 102942-09-21 03:35 G 39320116.48 39320116.65 39320116.81 0.2685 0.0070

Moon 102942-09-21 05:16 G 39320116.56 39320116.72 39320116.89 0.2683 0.0257 *

Mars 102942-11-05 00:57 G 39320161.44 39320161.54 39320161.65 0.1638 0.0672

Mars 102944-10-10 03:06 G 39320866.56 39320866.63 39320866.69 0.1619 0.1348

Earth 102946-03-19 01:11 G 39321391.44 39321391.55 39321391.66 0.2648 0.0390

Moon 102946-03-19 01:54 G 39321391.47 39321391.58 39321391.68 0.2651 0.0260 *

Jupiter 102948-01-03 16:47 G 39322047.02 39322047.20 39322047.38 0.0514 0.0151

Venus 102950-03-03 00:42 G 39322836.42 39322836.53 39322836.64 0.3728 0.2705

Mars 102952-03-27 12:28 G 39323591.94 39323592.02 39323592.10 0.1643 0.1175

Saturn 102952-10-29 18:28 G 39323808.10 39323808.27 39323808.43 0.0267 0.0134

Saturn 102953-01-26 16:33 G 39323897.00 39323897.19 39323897.38 0.0267 0.0054

Saturn 102953-04-25 14:52 G 39323986.04 39323986.12 39323986.19 0.0268 0.0244

Jupiter 102953-06-05 21:21 G 39324027.38 39324027.39 39324027.40 0.0514 0.0512

Jupiter 102953-09-03 01:25 G 39324116.44 39324116.56 39324116.68 0.0512 0.0117

Mars 102954-03-02 14:23 G 39324297.00 39324297.10 39324297.20 0.1623 0.0864

Earth 102959-03-21 18:13 G 39326142.16 39326142.26 39326142.36 0.2646 0.1121

Moon 102959-03-21 18:57 G 39326142.19 39326142.29 39326142.38 0.2646 0.1198 *

Venus 102959-09-09 11:59 G 39326313.92 39326314.00 39326314.08 0.3652 0.2252

Jupiter 102959-10-22 12:42 G 39326356.85 39326357.03 39326357.21 0.0514 0.0090

Mars 102963-07-24 02:09 G 39327727.47 39327727.59 39327727.70 0.1628 0.0382

Venus 102965-03-25 03:06 G 39328337.53 39328337.63 39328337.73 0.3649 0.0479

Jupiter 102965-06-22 06:28 G 39328426.65 39328426.77 39328426.90 0.0512 0.0030

Saturn 102966-03-13 14:09 G 39328691.07 39328691.09 39328691.12 0.0296 0.0290

Saturn 102966-06-10 02:09 G 39328779.48 39328779.59 39328779.71 0.0295 0.0120

Saturn 102966-09-06 14:09 G 39328867.96 39328868.09 39328868.22 0.0294 0.0048

Saturn 102966-12-04 01:54 G 39328956.50 39328956.58 39328956.67 0.0293 0.0214

Neptune 102969-07-26 19:25 G 39329922.28 39329922.31 39329922.36 0.0088 0.0084

Neptune 102969-10-22 20:37 G 39330010.31 39330010.36 39330010.44 0.0088 0.0077

Neptune 102970-01-18 22:04 G 39330098.35 39330098.42 39330098.50 0.0088 0.0070

Neptune 102970-04-16 23:30 G 39330186.39 39330186.48 39330186.57 0.0088 0.0063

Neptune 102970-07-14 00:42 G 39330274.43 39330274.53 39330274.63 0.0088 0.0056

Venus 102970-10-08 18:13 G 39330361.17 39330361.26 39330361.36 0.3646 0.1295

Neptune 102970-10-10 01:40 G 39330362.47 39330362.57 39330362.69 0.0088 0.0050

Neptune 102971-01-06 03:06 G 39330450.52 39330450.63 39330450.75 0.0088 0.0043

Neptune 102971-04-04 04:18 G 39330538.57 39330538.68 39330538.81 0.0088 0.0036

Neptune 102971-07-01 05:45 G 39330626.62 39330626.74 39330626.86 0.0088 0.0029

Jupiter 102971-08-10 07:25 G 39330666.67 39330666.81 39330666.94 0.0513 0.0350

Neptune 102971-09-27 06:57 G 39330714.66 39330714.79 39330714.92 0.0088 0.0022

Neptune 102971-12-24 08:09 G 39330802.71 39330802.84 39330802.97 0.0088 0.0016

Mars 102972-02-13 08:37 G 39330853.73 39330853.86 39330853.99 0.1917 0.1209

Neptune 102972-03-21 09:35 G 39330890.77 39330890.90 39330891.03 0.0088 0.0009

Earth 102972-03-23 11:16 G 39330892.96 39330892.97 39330892.98 0.2645 0.2627

Neptune 102972-06-17 10:47 G 39330978.82 39330978.95 39330979.08 0.0088 0.0002

Neptune 102972-09-13 11:59 G 39331066.87 39331067.00 39331067.13 0.0088 0.0005

Neptune 102972-12-10 13:11 G 39331154.92 39331155.05 39331155.18 0.0088 0.0012

Mars 102972-12-13 13:25 G 39331157.95 39331158.06 39331158.18 0.1633 0.0127

Neptune 102973-03-08 14:23 G 39331242.98 39331243.10 39331243.23 0.0088 0.0019

Uranus 102973-06-02 11:16 G 39331328.96 39331328.97 39331328.99 0.0141 0.0139

Neptune 102973-06-04 15:35 G 39331331.03 39331331.15 39331331.28 0.0088 0.0026

Uranus 102973-08-29 14:52 G 39331417.05 39331417.12 39331417.19 0.0141 0.0119

Neptune 102973-08-31 17:01 G 39331419.09 39331419.21 39331419.33 0.0088 0.0032

Uranus 102973-11-25 17:59 G 39331505.17 39331505.25 39331505.35 0.0141 0.0099

Neptune 102973-11-27 18:13 G 39331507.14 39331507.26 39331507.38 0.0088 0.0039

Uranus 102974-02-21 21:21 G 39331593.29 39331593.39 39331593.51 0.0141 0.0079

Neptune 102974-02-23 19:25 G 39331595.20 39331595.31 39331595.42 0.0088 0.0046

Uranus 102974-05-21 00:57 G 39331681.42 39331681.54 39331681.66 0.0141 0.0058

Neptune 102974-05-22 20:23 G 39331683.26 39331683.35 39331683.47 0.0088 0.0053

Uranus 102974-08-17 04:18 G 39331769.55 39331769.68 39331769.81 0.0141 0.0038

Neptune 102974-08-18 21:35 G 39331771.32 39331771.40 39331771.51 0.0088 0.0060

Uranus 102974-11-13 07:40 G 39331857.69 39331857.82 39331857.95 0.0141 0.0017

Neptune 102974-11-14 23:01 G 39331859.38 39331859.46 39331859.55 0.0088 0.0066

Uranus 102975-02-09 11:01 G 39331945.83 39331945.96 39331946.09 0.0141 0.0004

Neptune 102975-02-11 00:13 G 39331947.45 39331947.51 39331947.59 0.0088 0.0073

Uranus 102975-05-08 14:23 G 39332033.97 39332034.10 39332034.23 0.0141 0.0024

Neptune 102975-05-10 01:25 G 39332035.52 39332035.56 39332035.62 0.0088 0.0080

Uranus 102975-08-04 17:45 G 39332122.12 39332122.24 39332122.37 0.0141 0.0044

Neptune 102975-08-06 02:37 G 39332123.60 39332123.61 39332123.64 0.0088 0.0087

Uranus 102975-10-31 21:06 G 39332210.27 39332210.38 39332210.50 0.0141 0.0065

Uranus 102976-01-28 00:28 G 39332298.42 39332298.52 39332298.63 0.0141 0.0085

Venus 102976-04-23 09:21 G 39332384.84 39332384.89 39332384.95 0.3644 0.3027

Uranus 102976-04-25 03:49 G 39332386.58 39332386.66 39332386.75 0.0141 0.0106

Uranus 102976-07-22 07:11 G 39332474.75 39332474.80 39332474.86 0.0141 0.0126

Jupiter 102977-04-10 11:45 G 39332736.87 39332736.99 39332737.11 0.0513 0.0176

Jupiter 102977-07-08 15:21 G 39332826.08 39332826.14 39332826.20 0.0510 0.0443

Earth 102979-03-17 12:57 G 39333442.95 39333443.04 39333443.13 0.2649 0.1591

Moon 102979-03-17 13:11 G 39333442.96 39333443.05 39333443.13 0.2655 0.1512 *

Mars 102981-07-05 00:28 G 39334283.35 39334283.52 39334283.68 0.1909 0.0488

Saturn 102982-03-18 16:47 G 39334540.07 39334540.20 39334540.33 0.0266 0.0190

Mars 102982-05-06 00:57 G 39334588.43 39334588.54 39334588.65 0.1638 0.0612

Saturn 102982-06-15 14:52 G 39334628.93 39334629.12 39334629.31 0.0267 0.0004

Saturn 102982-09-12 12:57 G 39334717.91 39334718.04 39334718.18 0.0267 0.0185

Jupiter 102983-08-27 18:42 G 39335067.16 39335067.28 39335067.40 0.0515 0.0392

Mars 102984-04-10 02:52 G 39335293.57 39335293.62 39335293.68 0.1619 0.1405

Earth 102988-09-21 10:33 G 39336918.78 39336918.94 39336919.10 0.2685 0.0718

Moon 102988-09-21 12:13 G 39336918.86 39336919.01 39336919.16 0.2683 0.1008 *

Jupiter 102989-01-27 16:18 G 39337047.08 39337047.18 39337047.28 0.0513 0.0333

Jupiter 102989-04-26 20:09 G 39337136.24 39337136.34 39337136.44 0.0511 0.0290

Mars 102991-09-26 12:28 G 39338018.94 39338019.02 39338019.10 0.1643 0.1113

Earth 102992-03-19 05:59 G 39338193.64 39338193.75 39338193.86 0.2647 0.0101

Moon 102992-03-19 06:28 G 39338193.66 39338193.77 39338193.88 0.2651 0.0056 *

Mars 102993-08-31 14:23 G 39338724.01 39338724.10 39338724.20 0.1623 0.0928

Jupiter 102995-06-15 15:21 G 39339376.97 39339377.14 39339377.32 0.0515 0.0163

Saturn 102995-10-28 02:52 G 39339511.53 39339511.62 39339511.72 0.0296 0.0191

Saturn 102996-01-24 14:52 G 39339599.99 39339600.12 39339600.25 0.0295 0.0021

Saturn 102996-04-22 02:37 G 39339688.50 39339688.61 39339688.73 0.0294 0.0146

Jupiter 103000-11-16 20:52 G 39341357.34 39341357.37 39341357.40 0.0514 0.0491

104TH MILLENNIUM CE

This is a list of transits of Mercury in the 104th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	103001-02-14 00:57	G	39341446.41	39341446.54	39341446.66	0.0511	0.0137	
Mars	103001-02-16 23:45	G	39341449.48	39341449.49	39341449.51	0.1649	0.1625	
Venus	103001-03-24 15:21	G	39341485.01	39341485.14	39341485.26	0.3724	0.2302	
Mars	103003-01-23 01:54	G	39342154.47	39342154.58	39342154.70	0.1628	0.0442	
Earth	103005-03-22 23:01	G	39342944.37	39342944.46	39342944.55	0.2646	0.1434	
Moon	103005-03-22 23:30	G	39342944.40	39342944.48	39342944.57	0.2644	0.1583	*
Jupiter	103007-04-04 11:45	G	39343686.81	39343686.99	39343687.18	0.0514	0.0073	
Pluto	103007-07-15 02:37	G	39343788.55	39343788.61	39343788.69	0.0060	0.0055	
Pluto	103007-10-11 04:04	G	39343876.55	39343876.67	39343876.80	0.0060	0.0045	
Pluto	103008-01-07 05:30	G	39343964.57	39343964.73	39343964.88	0.0060	0.0035	
Pluto	103008-04-04 06:13	G	39344052.61	39344052.76	39344052.96	0.0060	0.0026	
Pluto	103008-07-01 07:40	G	39344140.65	39344140.82	39344141.02	0.0060	0.0016	
Pluto	103008-09-27 09:06	G	39344228.70	39344228.88	39344229.08	0.0060	0.0006	
Pluto	103008-12-24 10:33	G	39344316.75	39344316.94	39344317.14	0.0060	0.0004	
Pluto	103009-03-22 11:45	G	39344404.81	39344404.99	39344405.19	0.0060	0.0015	
Pluto	103009-06-18 12:57	G	39344492.88	39344493.04	39344493.23	0.0060	0.0025	
Pluto	103009-09-14 14:09	G	39344580.95	39344581.09	39344581.26	0.0060	0.0035	
Pluto	103009-12-11 15:35	G	39344669.03	39344669.15	39344669.29	0.0060	0.0045	
Pluto	103010-03-09 16:47	G	39344757.14	39344757.20	39344757.30	0.0060	0.0055	
Venus	103010-10-01 18:13	G	39344963.22	39344963.26	39344963.29	0.3654	0.3431	
Saturn	103011-08-06 14:23	G	39345272.05	39345272.10	39345272.17	0.0266	0.0253	
Mars	103011-08-15 09:35	G	39345280.78	39345280.90	39345281.02	0.1917	0.1349	
Saturn	103011-11-03 12:28	G	39345360.84	39345361.02	39345361.21	0.0267	0.0068	
Saturn	103012-01-31 10:33	G	39345449.78	39345449.94	39345450.12	0.0268	0.0122	
Mars	103012-06-14 13:25	G	39345584.95	39345585.06	39345585.18	0.1633	0.0063	

Jupiter 103012-12-03 05:30 G 39345756.60 39345756.73 39345756.86 0.0512 0.0022

Uranus 103014-09-21 00:28 G 39346413.42 39346413.52 39346413.64 0.0137 0.0113

Uranus 103014-12-18 08:09 G 39346501.70 39346501.84 39346502.01 0.0137 0.0086

Uranus 103015-03-16 16:04 G 39346590.00 39346590.17 39346590.35 0.0137 0.0057

Uranus 103015-06-12 23:59 G 39346678.31 39346678.50 39346678.69 0.0137 0.0029

Uranus 103015-09-09 07:40 G 39346766.63 39346766.82 39346767.02 0.0137 0.0003

Uranus 103015-12-06 15:21 G 39346854.96 39346855.14 39346855.34 0.0137 0.0027

Uranus 103016-03-03 23:16 G 39346943.29 39346943.47 39346943.65 0.0137 0.0055

Venus 103016-04-16 09:21 G 39346986.80 39346986.89 39346986.98 0.3651 0.1629

Uranus 103016-05-31 06:57 G 39347031.64 39347031.79 39347031.95 0.0137 0.0083

Uranus 103016-08-27 14:37 G 39347120.01 39347120.11 39347120.23 0.0137 0.0111

Jupiter 103019-01-21 07:40 G 39347996.68 39347996.82 39347996.97 0.0513 0.0313

Mars 103021-01-04 01:25 G 39348710.40 39348710.56 39348710.73 0.1909 0.0331

Earth 103021-09-20 07:40 G 39348969.76 39348969.82 39348969.89 0.2684 0.2453

Moon 103021-09-20 09:49 G 39348969.80 39348969.91 39348970.01 0.2684 0.2030 *

Venus 103021-10-31 00:28 G 39349010.42 39349010.52 39349010.62 0.3648 0.0158

Mars 103021-11-05 00:57 G 39349015.43 39349015.54 39349015.65 0.1638 0.0553

Mars 103023-10-11 02:52 G 39349720.57 39349720.62 39349720.67 0.1619 0.1466

Jupiter 103024-09-21 10:33 G 39350066.82 39350066.94 39350067.06 0.0513 0.0169

Jupiter 103024-12-19 14:09 G 39350156.04 39350156.09 39350156.15 0.0510 0.0450

Saturn 103025-03-17 04:33 G 39350243.63 39350243.69 39350243.77 0.0296 0.0245

Earth 103025-03-18 17:45 G 39350245.14 39350245.24 39350245.33 0.2648 0.1283

Moon 103025-03-18 17:59 G 39350245.16 39350245.25 39350245.34 0.2654 0.1273 *

Saturn 103025-06-13 16:33 G 39350332.07 39350332.19 39350332.32 0.0295 0.0076

Saturn 103025-09-10 04:33 G 39350420.57 39350420.69 39350420.81 0.0294 0.0093

Saturn 103025-12-07 16:18 G 39350509.12 39350509.18 39350509.24 0.0293 0.0258

Venus 103027-05-16 15:35 G 39351034.07 39351034.15 39351034.24 0.3646 0.1895

Jupiter 103031-02-07 17:01 G 39352397.09 39352397.21 39352397.32 0.0515 0.0397

Mars 103031-03-28 12:28 G 39352445.93 39352446.02 39352446.10 0.1643 0.1059

Venus 103032-11-29 06:42 G 39353057.77 39353057.78 39353057.79 0.3643 0.3613

Mars 103033-03-02 14:23 G 39353151.01 39353151.10 39353151.19 0.1623 0.0985

Earth 103034-09-23 17:30 G 39353721.10 39353721.23 39353721.37 0.2686 0.1475

Moon 103034-09-23 18:57 G 39353721.16 39353721.29 39353721.43 0.2681 0.1601 *

Jupiter 103036-07-10 15:35 G 39354377.05 39354377.15 39354377.25 0.0513 0.0317

Jupiter 103036-10-07 19:25 G 39354466.21 39354466.31 39354466.41 0.0511 0.0306

Earth 103038-03-21 10:33 G 39354995.84 39354995.94 39354996.05 0.2647 0.0242

Moon 103038-03-21 11:16 G 39354995.86 39354995.97 39354996.07 0.2650 0.0393 *

Mars 103040-08-17 23:45 G 39355876.46 39355876.49 39355876.53 0.1649 0.1563

Saturn 103041-03-22 11:30 G 39356092.81 39356092.98 39356093.15 0.0266 0.0120

Saturn 103041-06-19 09:35 G 39356181.71 39356181.90 39356182.09 0.0267 0.0067

Saturn 103041-09-16 07:54 G 39356270.78 39356270.83 39356270.88 0.0268 0.0257

Mars 103042-07-24 01:54 G 39356581.47 39356581.58 39356581.69 0.1628 0.0500

Jupiter 103042-11-26 13:11 G 39356706.87 39356707.05 39356707.23 0.0515 0.0161

Jupiter 103048-04-28 20:09 G 39358687.29 39358687.34 39358687.38 0.0514 0.0476

Jupiter 103048-07-26 23:59 G 39358776.38 39358776.50 39358776.62 0.0511 0.0152

Mars 103051-02-13 10:18 G 39359707.83 39359707.93 39359708.04 0.1917 0.1484

Earth 103051-03-24 03:35 G 39359746.57 39359746.65 39359746.73 0.2646 0.1742

Moon 103051-03-24 04:04 G 39359746.59 39359746.67 39359746.75 0.2641 0.1761 *

Mars 103051-12-14 13:25 G 39360011.95 39360012.06 39360012.18 0.1633 0.0033

Neptune 103053-07-02 10:33 G 39360577.93 39360577.94 39360577.97 0.0089 0.0089

Neptune 103053-09-28 13:54 G 39360666.01 39360666.08 39360666.20 0.0089 0.0079

Neptune 103053-12-25 17:59 G 39360754.13 39360754.25 39360754.39 0.0089 0.0068

Neptune 103054-03-23 21:49 G 39360842.27 39360842.41 39360842.57 0.0089 0.0057

Neptune 103054-06-20 01:25 G 39360930.41 39360930.56 39360930.75 0.0090 0.0047

Jupiter 103054-09-14 10:04 G 39361016.73 39361016.92 39361017.10 0.0514 0.0068

Neptune 103054-09-16 05:30 G 39361018.56 39361018.73 39361018.92 0.0090 0.0035

Saturn 103054-10-31 17:30 G 39361064.12 39361064.23 39361064.35 0.0296 0.0142

Neptune 103054-12-13 09:21 G 39361106.71 39361106.89 39361107.09 0.0090 0.0025

Saturn 103055-01-28 05:30 G 39361152.60 39361152.73 39361152.86 0.0295 0.0028

Neptune 103055-03-11 13:11 G 39361194.86 39361195.05 39361195.25 0.0090 0.0014

Saturn 103055-04-26 17:16 G 39361241.13 39361241.22 39361241.32 0.0294 0.0194

Neptune 103055-06-07 17:01 G 39361283.02 39361283.21 39361283.41 0.0090 0.0003

Neptune 103055-09-03 20:52 G 39361371.18 39361371.37 39361371.57 0.0090 0.0008

Neptune 103055-12-01 00:42 G 39361459.34 39361459.53 39361459.72 0.0090 0.0019

Neptune 103056-02-27 04:18 G 39361547.50 39361547.68 39361547.88 0.0090 0.0030

Neptune 103056-05-25 08:09 G 39361635.67 39361635.84 39361636.03 0.0090 0.0040

Neptune 103056-08-21 12:13 G 39361723.85 39361724.01 39361724.17 0.0090 0.0051

Neptune 103056-11-17 15:49 G 39361812.03 39361812.16 39361812.31 0.0090 0.0062

Neptune 103057-02-13 19:25 G 39361900.21 39361900.31 39361900.44 0.0090 0.0073

Neptune 103057-05-12 23:16 G 39361988.42 39361988.47 39361988.56 0.0090 0.0084

Uranus 103057-06-23 18:42 G 39362030.25 39362030.28 39362030.32 0.0140 0.0134

Uranus 103057-09-19 22:04 G 39362118.35 39362118.42 39362118.50 0.0141 0.0114

Venus 103057-10-29 18:13 G 39362158.10 39362158.26 39362158.42 0.3725 0.0072

Uranus 103057-12-17 01:25 G 39362206.47 39362206.56 39362206.66 0.0141 0.0093

Uranus 103058-03-15 05:01 G 39362294.59 39362294.71 39362294.82 0.0141 0.0073

Moon 103058-03-17 05:30 G 39362296.69 39362296.73 39362296.77 0.2656 0.2457

Earth 103058-03-17 05:16 G 39362296.69 39362296.72 39362296.76 0.2650 0.2484 *

Uranus 103058-06-11 08:09 G 39362382.73 39362382.84 39362382.97 0.0141 0.0053

Uranus 103058-09-07 11:45 G 39362470.86 39362470.99 39362471.12 0.0141 0.0032

Uranus 103058-12-04 15:06 G 39362559.00 39362559.13 39362559.26 0.0141 0.0012

Uranus 103059-03-02 18:28 G 39362647.14 39362647.27 39362647.40 0.0141 0.0009

Uranus 103059-05-29 21:49 G 39362735.28 39362735.41 39362735.54 0.0141 0.0029

Uranus 103059-08-26 01:11 G 39362823.43 39362823.55 39362823.67 0.0141 0.0050

Uranus 103059-11-22 04:33 G 39362911.58 39362911.69 39362911.80 0.0141 0.0070

Uranus 103060-02-18 07:54 G 39362999.73 39362999.83 39362999.93 0.0141 0.0091

Jupiter 103060-05-15 04:47 G 39363086.57 39363086.70 39363086.83 0.0512 0.0007

Uranus 103060-05-16 11:16 G 39363087.89 39363087.97 39363088.05 0.0141 0.0111

Mars 103060-07-05 02:37 G 39363137.44 39363137.61 39363137.78 0.1909 0.0181

Uranus 103060-08-12 14:37 G 39363176.07 39363176.11 39363176.16 0.0141 0.0132

Mars 103061-05-06 00:57 G 39363442.43 39363442.54 39363442.65 0.1638 0.0495

Mars 103063-04-11 02:52 G 39364147.59 39364147.62 39364147.65 0.1618 0.1530

Jupiter 103066-07-03 06:13 G 39365326.62 39365326.76 39365326.91 0.0513 0.0302

Venus 103067-05-08 15:35 G 39365636.08 39365636.15 39365636.21 0.3653 0.2806

Earth 103067-09-21 14:52 G 39365771.99 39365772.12 39365772.24 0.2684 0.1713

Moon 103067-09-21 16:18 G 39365772.05 39365772.18 39365772.32 0.2681 0.1572 *

Mars 103069-11-24 18:28 G 39366567.24 39366567.27 39366567.31 0.1901 0.1841

Saturn 103070-08-09 09:35 G 39366824.76 39366824.90 39366825.04 0.0266 0.0181

Mars 103070-09-26 12:13 G 39366872.92 39366873.01 39366873.11 0.1643 0.1000

Saturn 103070-11-06 07:40 G 39366913.63 39366913.82 39366914.01 0.0267 0.0007

Saturn 103071-02-03 05:45 G 39367002.61 39367002.74 39367002.87 0.0268 0.0196

Earth 103071-03-19 22:18 G 39367047.33 39367047.43 39367047.53 0.2648 0.0971

Moon 103071-03-19 23:01 G 39367047.36 39367047.46 39367047.56 0.2651 0.0865 *

Jupiter 103072-03-03 09:21 G 39367396.77 39367396.89 39367397.01 0.0513 0.0165

Jupiter 103072-05-31 12:57 G 39367485.99 39367486.04 39367486.10 0.0510 0.0454

Mars 103072-08-31 14:23 G 39367578.01 39367578.10 39367578.19 0.1623 0.1047

Venus 103072-11-21 06:42 G 39367659.68 39367659.78 39367659.88 0.3650 0.1022

Venus 103078-06-06 21:49 G 39369683.31 39369683.41 39369683.51 0.3648 0.0748

Jupiter 103078-07-20 16:47 G 39369727.10 39369727.20 39369727.31 0.0515 0.0429

Mars 103080-02-16 23:45 G 39370303.45 39370303.49 39370303.53 0.1649 0.1507

Moon 103080-09-24 00:28 G 39370523.44 39370523.52 39370523.61 0.2679 0.2314

Earth 103080-09-24 00:42 G 39370523.44 39370523.53 39370523.62 0.2686 0.2208 *

Mars 103082-01-22 01:54 G 39371008.47 39371008.58 39371008.69 0.1628 0.0558

Venus 103083-12-21 12:57 G 39371706.97 39371707.04 39371707.11 0.3645 0.2481

Jupiter 103083-12-21 14:09 G 39371706.99 39371707.09 39371707.19 0.0514 0.0315 *

Jupiter 103084-03-19 17:59 G 39371796.15 39371796.25 39371796.35 0.0511 0.0309

Saturn 103084-03-19 19:40 G 39371796.23 39371796.32 39371796.42 0.0296 0.0191 *

Earth 103084-03-21 15:21 G 39371798.03 39371798.14 39371798.25 0.2647 0.0543

Moon 103084-03-21 15:49 G 39371798.06 39371798.16 39371798.27 0.2643 0.0613 *

Saturn 103084-06-16 07:40 G 39371884.69 39371884.82 39371884.95 0.0295 0.0021

Saturn 103084-09-12 19:25 G 39371973.20 39371973.31 39371973.43 0.0294 0.0146

Jupiter 103090-05-08 11:16 G 39374036.79 39374036.97 39374037.14 0.0514 0.0162

Mars 103090-08-14 11:16 G 39374134.89 39374134.97 39374135.06 0.1917 0.1642

Mars 103091-06-14 13:25 G 39374438.94 39374439.06 39374439.17 0.1633 0.0068

Jupiter 103095-10-09 19:11 G 39376017.25 39376017.30 39376017.35 0.0514 0.0465

Jupiter 103096-01-06 23:16 G 39376106.35 39376106.47 39376106.59 0.0512 0.0163

Earth 103097-03-24 08:23 G 39376548.78 39376548.85 39376548.92 0.2646 0.2051

Moon 103097-03-24 08:23 G 39376548.79 39376548.85 39376548.92 0.2639 0.2081 *

Uranus 103098-07-14 23:01 G 39377026.46 39377026.46 39377026.49 0.0137 0.0137

Uranus 103098-10-11 06:57 G 39377114.68 39377114.79 39377114.91 0.0137 0.0109

Uranus 103099-01-07 14:52 G 39377202.96 39377203.12 39377203.28 0.0137 0.0081

Uranus 103099-04-05 22:18 G 39377291.26 39377291.43 39377291.62 0.0137 0.0053

Uranus 103099-07-03 06:13 G 39377379.57 39377379.76 39377379.96 0.0137 0.0025

Uranus 103099-09-29 14:09 G 39377467.89 39377468.09 39377468.28 0.0137 0.0004

Uranus 103099-12-26 21:49 G 39377556.22 39377556.41 39377556.60 0.0137 0.0031

Saturn 103099-12-27 09:06 G 39377556.78 39377556.88 39377556.98 0.0266 0.0228

Mars 103100-01-04 03:21 G 39377564.47 39377564.64 39377564.81 0.1909 0.0062

Uranus 103100-03-25 05:45 G 39377644.56 39377644.74 39377644.91 0.0137 0.0059

Saturn 103100-03-26 07:11 G 39377645.61 39377645.80 39377645.99 0.0267 0.0042

Uranus 103100-06-21 13:25 G 39377732.91 39377733.06 39377733.21 0.0137 0.0087

Saturn 103100-06-23 05:16 G 39377734.56 39377734.72 39377734.88 0.0267 0.0147

Uranus 103100-09-17 21:06 G 39377821.28 39377821.38 39377821.49 0.0137 0.0115

Mars 103100-11-05 00:57 G 39377869.42 39377869.54 39377869.65 0.1638 0.0436

Jupiter 103102-02-25 07:25 G 39378346.62 39378346.81 39378346.99 0.0514 0.0075

Pluto 103102-07-15 23:16 G 39378487.42 39378487.47 39378487.55 0.0084 0.0073

Mars 103102-10-11 02:52 G 39378574.60 39378574.62 39378574.63 0.1618 0.1590

Pluto 103102-10-12 00:42 G 39378575.44 39378575.53 39378575.64 0.0084 0.0054

Pluto 103103-01-08 01:54 G 39378663.47 39378663.58 39378663.71 0.0084 0.0035

Pluto 103103-04-06 03:21 G 39378751.51 39378751.64 39378751.77 0.0084 0.0016

Pluto 103103-07-03 04:33 G 39378839.56 39378839.69 39378839.82 0.0084 0.0003

Pluto 103103-09-29 05:45 G 39378927.61 39378927.74 39378927.87 0.0083 0.0022

Pluto 103103-12-26 06:57 G 39379015.67 39379015.79 39379015.91 0.0083 0.0041

Earth 103104-03-18 10:04 G 39379098.86 39379098.92 39379098.98 0.2650 0.2175

Moon 103104-03-18 10:47 G 39379098.88 39379098.95 39379099.01 0.2652 0.2138 *

Pluto 103104-03-23 07:54 G 39379103.75 39379103.83 39379103.93 0.0083 0.0059

Pluto 103104-06-19 08:52 G 39379191.84 39379191.87 39379191.93 0.0083 0.0078

Jupiter 103107-10-27 03:49 G 39380416.53 39380416.66 39380416.79 0.0512 0.0009

Mars 103109-05-26 19:25 G 39380994.24 39380994.31 39380994.38 0.1901 0.1703

Mars 103110-03-28 12:13 G 39381299.92 39381300.01 39381300.11 0.1643 0.0938

Mars 103112-03-02 14:23 G 39382005.01 39382005.10 39382005.18 0.1623 0.1110

Saturn 103113-08-07 20:52 G 39382528.31 39382528.37 39382528.44 0.0296 0.0254

Moon 103113-09-22 21:49 G 39382574.25 39382574.41 39382574.56 0.2678 0.1000

Earth 103113-09-22 21:49 G 39382574.26 39382574.41 39382574.56 0.2685 0.0966 *

Saturn 103113-11-04 09:06 G 39382616.75 39382616.88 39382617.00 0.0296 0.0083

Jupiter 103113-12-14 04:04 G 39382656.52 39382656.67 39382656.82 0.0513 0.0303

Saturn 103114-01-31 20:52 G 39382705.25 39382705.37 39382705.50 0.0295 0.0085

Saturn 103114-04-30 08:37 G 39382793.80 39382793.86 39382793.93 0.0294 0.0251

Venus 103114-06-06 21:06 G 39382831.25 39382831.38 39382831.51 0.3727 0.2156

Earth 103117-03-21 03:06 G 39383849.52 39383849.63 39383849.73 0.2648 0.0664

Moon 103117-03-21 03:35 G 39383849.55 39383849.65 39383849.76 0.2646 0.0515 *

Jupiter 103119-08-15 08:23 G 39384726.73 39384726.85 39384726.97 0.0513 0.0152

Mars 103119-08-18 23:45 G 39384730.43 39384730.49 39384730.54 0.1648 0.1448

Jupiter 103119-11-12 11:59 G 39384815.96 39384816.00 39384816.05 0.0510 0.0466

Mars 103121-07-24 01:54 G 39385435.47 39385435.58 39385435.69 0.1627 0.0622

Venus 103123-12-14 12:42 G 39386308.95 39386309.03 39386309.12 0.3652 0.2195

Jupiter 103125-12-31 15:06 G 39387057.03 39387057.13 39387057.23 0.0515 0.0433

Venus 103129-06-29 04:04 G 39388332.57 39388332.67 39388332.77 0.3650 0.0412

Saturn 103129-08-13 05:30 G 39388377.56 39388377.73 39388377.91 0.0267 0.0099

Saturn 103129-11-10 03:35 G 39388466.47 39388466.65 39388466.84 0.0267 0.0089

Mars 103130-02-13 12:28 G 39388561.96 39388562.02 39388562.07 0.1918 0.1792

Moon 103130-03-23 20:09 G 39388600.23 39388600.34 39388600.44 0.2640 0.0804

Earth 103130-03-23 20:09 G 39388600.24 39388600.34 39388600.44 0.2647 0.0856 *

Mars 103130-12-14 13:25 G 39388865.94 39388866.06 39388866.17 0.1632 0.0140

Jupiter 103131-06-03 12:42 G 39389036.93 39389037.03 39389037.13 0.0513 0.0315

Jupiter 103131-08-31 16:33 G 39389126.10 39389126.19 39389126.30 0.0511 0.0309

Neptune 103134-01-26 18:13 G 39390005.25 39390005.26 39390005.28 0.0088 0.0087

Neptune 103134-04-24 19:11 G 39390093.27 39390093.30 39390093.37 0.0088 0.0081

Neptune 103134-07-21 20:37 G 39390181.30 39390181.36 39390181.44 0.0088 0.0074

Neptune 103134-10-17 21:49 G 39390269.34 39390269.41 39390269.51 0.0088 0.0067

Venus 103135-01-12 19:11 G 39390356.21 39390356.30 39390356.39 0.3647 0.1347

Neptune 103135-01-13 23:16 G 39390357.38 39390357.47 39390357.57 0.0088 0.0060

Neptune 103135-04-12 00:28 G 39390445.42 39390445.52 39390445.63 0.0088 0.0053

Neptune 103135-07-09 01:54 G 39390533.47 39390533.58 39390533.69 0.0088 0.0046

Neptune 103135-10-05 02:52 G 39390621.51 39390621.62 39390621.75 0.0088 0.0040

Neptune 103136-01-01 04:18 G 39390709.56 39390709.68 39390709.80 0.0088 0.0033

Neptune 103136-03-29 05:30 G 39390797.61 39390797.73 39390797.86 0.0088 0.0026

Neptune 103136-06-25 06:57 G 39390885.66 39390885.79 39390885.92 0.0088 0.0019

Neptune 103136-09-21 08:09 G 39390973.71 39390973.84 39390973.97 0.0088 0.0012

Neptune 103136-12-18 09:21 G 39391061.76 39391061.89 39391062.02 0.0088 0.0005

Neptune 103137-03-16 10:33 G 39391149.81 39391149.94 39391150.08 0.0088 0.0003

Neptune 103137-06-12 11:45 G 39391237.86 39391237.99 39391238.13 0.0088 0.0009

Neptune 103137-09-08 13:11 G 39391325.92 39391326.05 39391326.18 0.0088 0.0015

Jupiter 103137-10-19 10:47 G 39391366.78 39391366.95 39391367.12 0.0514 0.0187

Neptune 103137-12-05 14:23 G 39391413.97 39391414.10 39391414.23 0.0088 0.0022

Neptune 103138-03-03 15:35 G 39391502.03 39391502.15 39391502.28 0.0088 0.0029

Neptune 103138-05-30 16:33 G 39391590.08 39391590.19 39391590.32 0.0088 0.0036

Neptune 103138-08-26 17:59 G 39391678.14 39391678.25 39391678.37 0.0088 0.0042

Neptune 103138-11-22 19:11 G 39391766.20 39391766.30 39391766.42 0.0088 0.0049

Neptune 103139-02-18 20:23 G 39391854.26 39391854.35 39391854.46 0.0088 0.0056

Neptune 103139-05-17 21:35 G 39391942.32 39391942.40 39391942.50 0.0088 0.0063

Mars 103139-07-06 04:18 G 39391991.51 39391991.68 39391991.85 0.1910 0.0104

Neptune 103139-08-13 23:01 G 39392030.38   39392030.46   39392030.54 0.0088 0.0069

Neptune 103139-11-10 00:13 G 39392118.45   39392118.51   39392118.58 0.0088 0.0076

Neptune 103140-02-06 01:11 G 39392206.52   39392206.55   39392206.61 0.0088 0.0083

Mars   103140-05-06 00:42 G 39392296.42   39392296.53   39392296.65 0.1638 0.0377

Venus   103140-07-28 10:18 G 39392379.88   39392379.93   39392379.98 0.3644 0.3077

Uranus   103141-07-15 01:54 G 39392731.54   39392731.58   39392731.64 0.0141 0.0129

Uranus   103141-10-11 05:30 G 39392819.65   39392819.73   39392819.81 0.0141 0.0108

Uranus   103142-01-07 08:52 G 39392907.77   39392907.87   39392907.97 0.0141 0.0088

Uranus   103142-04-05 12:13 G 39392995.90   39392996.01   39392996.13 0.0141 0.0067

Uranus   103142-07-02 15:35 G 39393084.03   39393084.15   39393084.28 0.0141 0.0047

Uranus   103142-09-28 18:57 G 39393172.17   39393172.29   39393172.43 0.0141 0.0027

Uranus   103142-12-25 22:33 G 39393260.31   39393260.44   39393260.57 0.0141 0.0006

Jupiter 103143-03-22 17:45 G 39393347.19   39393347.24   39393347.29 0.0514 0.0468

Uranus   103143-03-24 01:54 G 39393348.45   39393348.58   39393348.71 0.0141 0.0015

Saturn   103143-03-24 11:30 G 39393348.87   39393348.98   39393349.10 0.0295 0.0128

Moon   103143-03-26 12:28 G 39393350.97   39393351.02   39393351.07 0.2644 0.2303

Earth   103143-03-26 13:11 G 39393351.00   39393351.05   39393351.09 0.2646 0.2364 *

Jupiter 103143-06-19 21:35 G 39393436.28   39393436.40   39393436.52 0.0512 0.0161

Uranus   103143-06-20 05:16 G 39393436.59   39393436.72   39393436.85 0.0141 0.0035

Saturn   103143-06-20 23:30 G 39393437.35   39393437.48   39393437.61 0.0294 0.0041

Uranus   103143-09-16 08:37 G 39393524.74   39393524.86   39393524.98 0.0141 0.0055

Saturn   103143-09-17 11:16 G 39393525.88   39393525.97   39393526.06 0.0293 0.0207

Uranus   103143-12-13 11:59 G 39393612.89   39393613.00   39393613.11 0.0141 0.0076

Uranus   103144-03-10 15:21 G 39393701.05   39393701.14   39393701.24 0.0141 0.0096

Uranus   103144-06-06 18:42 G 39393789.21   39393789.28   39393789.36 0.0141 0.0117

Uranus   103144-09-02 22:04 G 39393877.40   39393877.42   39393877.45 0.0141 0.0138

Mars   103148-11-24 20:23 G 39395421.26   39395421.35   39395421.45 0.1901 0.1554

Jupiter 103149-08-07 05:01 G 39395676.53   39395676.71   39395676.90 0.0513 0.0079

Mars   103149-09-26 12:13 G 39395726.91   39395727.01   39395727.11 0.1643 0.0878

Earth   103150-03-19 14:52 G 39395901.04   39395901.12   39395901.19 0.2649 0.1866

Moon 103150-03-19 15:21 G 39395901.06 39395901.14 39395901.22 0.2645 0.1738 *

Mars 103151-09-01 14:09 G 39396432.02 39396432.09 39396432.17 0.1623 0.1170

Jupiter 103155-04-08 02:37 G 39397746.48 39397746.61 39397746.74 0.0512 0.0012

Saturn 103158-12-31 05:30 G 39399109.57 39399109.73 39399109.90 0.0266 0.0144

Mars 103159-02-16 23:45 G 39399157.43 39399157.49 39399157.55 0.1648 0.1386

Saturn 103159-03-30 03:49 G 39399198.47 39399198.66 39399198.85 0.0267 0.0044

Saturn 103159-06-27 02:09 G 39399287.49 39399287.59 39399287.68 0.0268 0.0234

Moon 103159-09-24 02:52 G 39399376.46 39399376.62 39399376.79 0.2682 0.0389

Earth 103159-09-24 04:47 G 39399376.54 39399376.70 39399376.87 0.2685 0.0234 *

Mars 103161-01-22 01:54 G 39399862.47 39399862.58 39399862.68 0.1628 0.0682

Jupiter 103161-05-26 01:11 G 39399986.41 39399986.55 39399986.70 0.0513 0.0315

Moon 103163-03-22 07:25 G 39400651.71 39400651.81 39400651.92 0.2642 0.0426

Earth 103163-03-22 07:40 G 39400651.72 39400651.82 39400651.93 0.2648 0.0364 *

Venus 103165-06-27 11:45 G 39401479.88 39401479.99 39401480.09 0.3723 0.2802

Jupiter 103167-01-25 07:11 G 39402056.68 39402056.80 39402056.92 0.0513 0.0147

Jupiter 103167-04-24 10:47 G 39402145.91 39402145.95 39402146.00 0.0510 0.0470

Mars 103170-06-14 13:25 G 39403292.94 39403293.06 39403293.17 0.1632 0.0195

Saturn 103172-08-10 13:25 G 39404080.96 39404081.06 39404081.16 0.0296 0.0182

Saturn 103172-11-07 01:25 G 39404169.43 39404169.56 39404169.69 0.0295 0.0013

Saturn 103173-02-03 13:11 G 39404257.94 39404258.05 39404258.16 0.0294 0.0154

Jupiter 103173-06-12 12:28 G 39404386.92 39404387.02 39404387.12 0.0515 0.0425

Venus 103175-01-04 18:57 G 39404958.25 39404958.29 39404958.33 0.3654 0.3363

Moon 103176-03-24 00:13 G 39405402.41 39405402.51 39405402.61 0.2646 0.1096

Earth 103176-03-24 00:42 G 39405402.44 39405402.53 39405402.63 0.2647 0.1167 *

Jupiter 103178-11-13 11:45 G 39406366.89 39406366.99 39406367.09 0.0513 0.0306

Mars 103179-01-04 05:30 G 39406418.56 39406418.73 39406418.90 0.1910 0.0265

Jupiter 103179-02-10 15:35 G 39406456.05 39406456.15 39406456.25 0.0511 0.0316

Mars 103179-11-05 00:42 G 39406723.42 39406723.53 39406723.65 0.1637 0.0313

Venus 103180-07-20 10:18 G 39406981.83 39406981.93 39406982.02 0.3652 0.1579

Uranus 103182-08-05 05:30 G 39407727.70 39407727.73 39407727.80 0.0137 0.0132

Uranus 103182-11-01 13:25 G 39407815.94 39407816.06 39407816.20 0.0137 0.0104

Uranus 103183-01-28 21:21 G 39407904.23 39407904.39 39407904.56 0.0137 0.0075

Uranus 103183-04-27 05:16 G 39407992.53 39407992.72 39407992.90 0.0137 0.0047

Uranus 103183-07-24 12:57 G 39408080.85 39408081.04 39408081.23 0.0137 0.0019

Uranus 103183-10-20 20:37 G 39408169.17 39408169.36 39408169.56 0.0137 0.0009

Uranus 103184-01-17 04:18 G 39408257.50 39408257.68 39408257.87 0.0137 0.0037

Uranus 103184-04-14 11:59 G 39408345.84 39408346.00 39408346.18 0.0137 0.0065

Uranus 103184-07-11 19:40 G 39408434.19 39408434.32 39408434.48 0.0137 0.0093

Uranus 103184-10-08 03:35 G 39408522.57 39408522.65 39408522.75 0.0137 0.0120

Jupiter 103185-03-31 08:23 G 39408696.68 39408696.85 39408697.03 0.0514 0.0185

Venus 103186-02-03 01:25 G 39409005.46 39409005.56 39409005.66 0.3649 0.0208

Saturn 103188-05-19 04:33 G 39409841.56 39409841.69 39409841.82 0.0266 0.0197

Mars 103188-05-25 21:21 G 39409848.28 39409848.39 39409848.50 0.1902 0.1420

Saturn 103188-08-16 02:37 G 39409930.42 39409930.61 39409930.80 0.0267 0.0010

Saturn 103188-11-13 00:57 G 39410019.40 39410019.54 39410019.68 0.0268 0.0180

Moon 103189-03-26 17:30 G 39410153.20 39410153.23 39410153.25 0.2651 0.2566

Mars 103189-03-27 12:13 G 39410153.91 39410154.01 39410154.11 0.1643 0.0819

Jupiter 103190-09-01 15:49 G 39410677.12 39410677.16 39410677.21 0.0514 0.0472

Jupiter 103190-11-29 19:54 G 39410766.21 39410766.33 39410766.45 0.0512 0.0156

Mars 103191-03-02 14:09 G 39410859.02 39410859.09 39410859.17 0.1623 0.1229

Venus 103191-08-19 16:33 G 39411029.10 39411029.19 39411029.27 0.3646 0.1948

Moon 103196-03-19 19:11 G 39412703.21 39412703.30 39412703.38 0.2644 0.1552

Earth 103196-03-19 19:25 G 39412703.23 39412703.31 39412703.40 0.2649 0.1548 *

Jupiter 103197-01-17 04:04 G 39413006.49 39413006.67 39413006.86 0.0514 0.0061

Mars 103198-08-17 23:30 G 39413584.42 39413584.48 39413584.55 0.1648 0.1330

Mars 103200-07-23 01:40 G 39414289.47 39414289.57 39414289.68 0.1627 0.0744

Saturn 103201-12-28 16:04 G 39414813.09 39414813.17 39414813.26 0.0296 0.0223

Saturn 103202-03-27 04:04 G 39414901.55 39414901.67 39414901.80 0.0295 0.0054

Saturn 103202-06-23 16:04 G 39414990.05 39414990.17 39414990.28 0.0294 0.0114

Jupiter 103202-09-18 00:57 G 39415076.41 39415076.54 39415076.66 0.0513 0.0017

Saturn 103202-09-20 03:35 G 39415078.62 39415078.65 39415078.69 0.0293 0.0279

Moon 103205-09-24 11:01 G 39416178.80 39416178.96 39416179.12 0.2690 0.0378

Earth 103205-09-24 11:59 G 39416178.84 39416179.00 39416179.16 0.2685 0.0524 *

Jupiter 103208-11-04 22:33 G 39417316.30 39417316.44 39417316.59 0.0513 0.0322

Moon 103209-03-22 11:45 G 39417453.89 39417453.99 39417454.10 0.2648 0.0218

Earth 103209-03-22 12:28 G 39417453.91 39417454.02 39417454.13 0.2648 0.0048 *

Mars 103209-12-13 13:11 G 39417719.94 39417720.05 39417720.17 0.1632 0.0249

Jupiter 103214-07-07 05:45 G 39419386.62 39419386.74 39419386.86 0.0513 0.0148

Jupiter 103214-10-04 09:21 G 39419475.85 39419475.89 39419475.94 0.0511 0.0472

Saturn 103217-10-06 05:01 G 39420573.63 39420573.71 39420573.80 0.0266 0.0237

Saturn 103218-01-03 03:06 G 39420662.45 39420662.63 39420662.83 0.0267 0.0050

Neptune 103218-03-30 09:06 G 39420748.83 39420748.88 39420748.96 0.0089 0.0084

Saturn 103218-04-02 01:25 G 39420751.40 39420751.56 39420751.73 0.0268 0.0140

Neptune 103218-06-26 13:11 G 39420836.94 39420837.05 39420837.16 0.0089 0.0073

Mars 103218-07-05 05:59 G 39420845.58 39420845.75 39420845.91 0.1910 0.0380

Neptune 103218-09-22 16:33 G 39420925.07 39420925.19 39420925.35 0.0089 0.0063

Neptune 103218-12-19 20:37 G 39421013.21 39421013.36 39421013.53 0.0089 0.0052

Neptune 103219-03-18 00:28 G 39421101.35 39421101.52 39421101.70 0.0089 0.0041

Mars 103219-05-06 00:42 G 39421150.42 39421150.53 39421150.64 0.1637 0.0252

Neptune 103219-06-14 04:04 G 39421189.50 39421189.67 39421189.87 0.0090 0.0031

Neptune 103219-09-10 07:54 G 39421277.65 39421277.83 39421278.03 0.0090 0.0020

Neptune 103219-12-07 11:59 G 39421365.80 39421366.00 39421366.20 0.0090 0.0008

Neptune 103220-03-04 15:49 G 39421453.96 39421454.16 39421454.36 0.0090 0.0002

Neptune 103220-05-31 19:25 G 39421542.12 39421542.31 39421542.51 0.0090 0.0014

Neptune 103220-08-27 23:30 G 39421630.29 39421630.48 39421630.67 0.0090 0.0024

Jupiter 103220-11-22 09:06 G 39421716.77 39421716.88 39421716.99 0.0515 0.0406

Neptune 103220-11-24 03:06 G 39421718.46 39421718.63 39421718.82 0.0090 0.0035

Neptune 103221-02-20 06:57 G 39421806.63 39421806.79 39421806.97 0.0090 0.0046

Neptune 103221-05-19 10:33 G 39421894.80 39421894.94 39421895.11 0.0090 0.0057

Neptune 103221-08-15 14:23 G 39421982.99 39421983.10 39421983.25 0.0090 0.0068

Neptune 103221-11-11 18:28 G 39422071.18 39422071.27 39422071.37 0.0090 0.0078

Venus 103222-02-01 14:37 G 39422152.95 39422153.11 39422153.27 0.3725 0.0597

Neptune 103222-02-07 22:04 G 39422159.41 39422159.42 39422159.46 0.0090 0.0089

Moon 103222-03-25 05:16 G 39422204.64 39422204.72 39422204.81 0.2653 0.1498

Earth 103222-03-25 05:30 G 39422204.64 39422204.73 39422204.82 0.2646 0.1474 *

Uranus 103225-08-04 09:21 G 39423432.83 39423432.89 39423432.96 0.0141 0.0123

Uranus 103225-10-31 12:42 G 39423520.95 39423521.03 39423521.12 0.0141 0.0103

Uranus 103226-01-27 16:04 G 39423609.07 39423609.17 39423609.28 0.0141 0.0083

Jupiter 103226-04-25 10:04 G 39423696.82 39423696.92 39423697.02 0.0514 0.0308

Uranus 103226-04-25 19:40 G 39423697.20 39423697.32 39423697.44 0.0141 0.0062

Uranus 103226-07-22 23:01 G 39423785.33 39423785.46 39423785.59 0.0141 0.0041

Jupiter 103226-07-23 13:54 G 39423785.99 39423786.08 39423786.18 0.0511 0.0315

Uranus 103226-10-19 02:23 G 39423873.47 39423873.60 39423873.73 0.0141 0.0021

Uranus 103227-01-15 05:45 G 39423961.61 39423961.74 39423961.87 0.0141 0.0003

Uranus 103227-04-13 09:06 G 39424049.75 39424049.88 39424050.01 0.0141 0.0020

Uranus 103227-07-10 12:28 G 39424137.90 39424138.02 39424138.15 0.0141 0.0041

Uranus 103227-10-06 15:49 G 39424226.05 39424226.16 39424226.29 0.0141 0.0062

Mars 103227-11-24 22:18 G 39424275.31 39424275.43 39424275.56 0.1902 0.1269

Uranus 103228-01-02 19:25 G 39424314.20 39424314.31 39424314.42 0.0141 0.0081

Uranus 103228-03-30 22:33 G 39424402.36 39424402.44 39424402.54 0.0141 0.0102

Uranus 103228-06-27 02:09 G 39424490.53 39424490.59 39424490.65 0.0141 0.0122

Mars 103228-09-25 12:13 G 39424580.91 39424581.01 39424581.11 0.1642 0.0756

Mars 103230-08-31 14:09 G 39425286.02 39425286.09 39425286.16 0.1622 0.1295

Saturn 103231-05-17 18:28 G 39425545.22 39425545.27 39425545.32 0.0296 0.0271

Venus 103231-08-11 16:18 G 39425631.11 39425631.18 39425631.25 0.3654 0.2740

Saturn 103231-08-14 06:28 G 39425633.65 39425633.77 39425633.89 0.0295 0.0101

Saturn 103231-11-10 18:28 G 39425722.14 39425722.27 39425722.39 0.0294 0.0068

Saturn 103232-02-07 05:59 G 39425810.68 39425810.75 39425810.83 0.0294 0.0233

Jupiter 103232-09-10 05:30 G 39426026.55 39426026.73 39426026.90 0.0514 0.0170

Venus 103237-02-24 07:40 G 39427654.72 39427654.82 39427654.91 0.3651 0.0970

Jupiter 103238-02-11 14:37 G 39428007.06 39428007.11 39428007.16 0.0514 0.0468

Mars 103238-02-15 23:30 G 39428011.41 39428011.48 39428011.55 0.1648 0.1270

Jupiter 103238-05-11 18:42 G 39428096.16 39428096.28 39428096.40 0.0512 0.0159

Moon 103238-09-22 08:37 G 39428229.83 39428229.86 39428229.89 0.2690 0.2625

Earth 103238-09-22 09:06 G 39428229.86 39428229.88 39428229.90 0.2683 0.2655 *

Mars 103240-01-22 01:40 G 39428716.47 39428716.57 39428716.67 0.1627 0.0805

Moon 103242-03-20 23:30 G 39429505.39 39429505.48 39429505.57 0.2651 0.1379

Earth 103242-03-21 00:13 G 39429505.41 39429505.51 39429505.60 0.2649 0.1235 *

Venus 103242-09-09 22:47 G 39429678.35 39429678.45 39429678.55 0.3648 0.0814

Jupiter 103244-06-29 01:25 G 39430336.38 39430336.56 39430336.75 0.0514 0.0070

Saturn 103247-05-23 02:23 G 39431394.42 39431394.60 39431394.78 0.0267 0.0101

Saturn 103247-08-20 00:28 G 39431483.34 39431483.52 39431483.71 0.0268 0.0088

Venus 103248-03-25 13:54 G 39431702.01 39431702.08 39431702.15 0.3645 0.2548

Mars 103249-06-13 13:11 G 39432146.94 39432147.05 39432147.16 0.1632 0.0307

Jupiter 103250-02-27 23:01 G 39432406.33 39432406.46 39432406.59 0.0512 0.0004

Earth 103251-09-25 18:57 G 39432981.14 39432981.29 39432981.43 0.2685 0.1258

Moon 103251-09-25 20:23 G 39432981.21 39432981.35 39432981.49 0.2690 0.1363 *

Moon 103255-03-23 17:16 G 39434256.11 39434256.22 39434256.32 0.2654 0.0315

Earth 103255-03-23 17:16 G 39434256.11 39434256.22 39434256.33 0.2647 0.0280 *

Pluto 103255-11-07 06:57 G 39434484.78 39434484.79 39434484.86 0.0060 0.0059

Pluto 103256-02-03 08:23 G 39434572.76 39434572.85 39434572.98 0.0060 0.0049

Jupiter 103256-04-16 21:06 G 39434646.24 39434646.38 39434646.53 0.0513 0.0312

Pluto 103256-05-01 09:49 G 39434660.78 39434660.91 39434661.07 0.0060 0.0039

Pluto 103256-07-28 11:16 G 39434748.81 39434748.97 39434749.15 0.0060 0.0029

Pluto 103256-10-24 12:42 G 39434836.85 39434837.03 39434837.22 0.0060 0.0019

Pluto 103257-01-20 14:09 G 39434924.90 39434925.09 39434925.28 0.0060 0.0009

Pluto 103257-04-18 15:21 G 39435012.95 39435013.14 39435013.33 0.0060 0.0001

Pluto 103257-07-15 16:33 G 39435101.01 39435101.19 39435101.39 0.0060 0.0011

Pluto 103257-10-11 17:59 G 39435189.07 39435189.25 39435189.43 0.0060 0.0021

Mars 103258-01-03 07:11 G 39435272.64 39435272.80 39435272.96 0.1911 0.0545

Pluto 103258-01-07 19:11 G 39435277.14 39435277.30 39435277.47 0.0060 0.0031

Pluto 103258-04-05 20:23 G 39435365.22 39435365.35 39435365.50 0.0060 0.0041

Pluto 103258-07-02 21:49 G 39435453.31 39435453.41 39435453.51 0.0060 0.0051

Mars 103258-11-04 00:42 G 39435577.41 39435577.53 39435577.64 0.1637 0.0194

Saturn 103260-12-31 09:35 G 39436365.79 39436365.90 39436366.01 0.0295 0.0138

Saturn 103261-03-29 21:35 G 39436454.27 39436454.40 39436454.52 0.0294 0.0032

Saturn 103261-06-26 09:21 G 39436542.79 39436542.89 39436542.98 0.0293 0.0196

Jupiter 103261-12-17 03:49 G 39436716.54 39436716.66 39436716.78 0.0513 0.0158

Jupiter 103262-03-16 07:25 G 39436805.77 39436805.81 39436805.87 0.0511 0.0462

Uranus 103266-08-25 12:42 G 39438428.97 39438429.03 39438429.13 0.0137 0.0124

Uranus 103266-11-21 20:37 G 39438517.23 39438517.36 39438517.51 0.0137 0.0096

Uranus 103267-02-18 04:33 G 39438605.52 39438605.69 39438605.86 0.0137 0.0068

Uranus 103267-05-17 12:13 G 39438693.83 39438694.01 39438694.20 0.0137 0.0040

Mars 103267-05-25 23:16 G 39438702.33 39438702.47 39438702.60 0.1902 0.1130

Uranus 103267-08-13 20:09 G 39438782.14 39438782.34 39438782.53 0.0137 0.0012

Uranus 103267-11-10 03:49 G 39438870.47 39438870.66 39438870.85 0.0137 0.0016

Uranus 103268-02-06 11:30 G 39438958.80 39438958.98 39438959.17 0.0137 0.0044

Earth 103268-03-25 10:18 G 39439006.85 39439006.93 39439007.01 0.2646 0.1788

Moon 103268-03-25 10:47 G 39439006.87 39439006.95 39439007.03 0.2650 0.1831 *

Mars 103268-03-26 11:59 G 39439007.90 39439008.00 39439008.11 0.1643 0.0702

Jupiter 103268-05-04 06:13 G 39439046.64 39439046.76 39439046.88 0.0514 0.0393

Uranus 103268-05-04 19:11 G 39439047.14 39439047.30 39439047.47 0.0137 0.0072

Uranus 103268-08-01 02:52 G 39439135.50 39439135.62 39439135.76 0.0137 0.0100

Uranus 103268-10-28 10:47 G 39439223.88 39439223.95 39439224.02 0.0137 0.0127

Mars 103270-03-01 14:09 G 39439713.03 39439713.09 39439713.15 0.1622 0.1353

Jupiter 103273-10-05 08:23 G 39441026.75 39441026.85 39441026.95 0.0514 0.0314

Jupiter 103274-01-02 12:28 G 39441115.92 39441116.02 39441116.12 0.0512 0.0311

Moon 103275-03-19 11:16 G 39441556.94 39441556.97 39441557.01 0.2654 0.2484

Earth 103275-03-19 11:59 G 39441556.96 39441557.00 39441557.04 0.2650 0.2445 *

Saturn 103276-10-09 03:21 G 39442126.48 39442126.64 39442126.81 0.0267 0.0138

Saturn 103277-01-06 01:25 G 39442215.38 39442215.56 39442215.75 0.0268 0.0051

Saturn 103277-04-04 23:45 G 39442304.41 39442304.49 39442304.58 0.0268 0.0242

Mars 103277-08-16 23:30 G 39442438.41 39442438.48 39442438.56 0.1648 0.1207

Venus 103278-09-08 17:45 G 39442826.09 39442826.24 39442826.38 0.3726 0.1657

Mars 103279-07-23 01:40 G 39443143.47 39443143.57 39443143.67 0.1627 0.0866

Jupiter 103280-02-21 01:54 G 39443356.40 39443356.58 39443356.76 0.0514 0.0149

Earth 103284-09-22 16:04 G 39445032.06 39445032.17 39445032.29 0.2684 0.1915

Moon 103284-09-22 17:59 G 39445032.12 39445032.25 39445032.38 0.2686 0.1621 *

Jupiter 103285-07-24 12:57 G 39445336.99 39445337.04 39445337.08 0.0514 0.0476

Jupiter 103285-10-21 17:01 G 39445426.09 39445426.21 39445426.33 0.0512 0.0153

Venus 103288-03-17 13:40 G 39446303.99 39446304.07 39446304.15 0.3653 0.2117

Earth 103288-03-21 05:01 G 39446307.60 39446307.71 39446307.81 0.2648 0.0932

Moon 103288-03-21 05:01 G 39446307.61 39446307.71 39446307.81 0.2655 0.0978 *

Mars 103288-12-12 13:11 G 39446573.94 39446574.05 39446574.16 0.1632 0.0372

Saturn 103290-05-20 12:28 G 39447097.92 39447098.02 39447098.12 0.0296 0.0179

Saturn 103290-08-17 00:28 G 39447186.39 39447186.52 39447186.64 0.0295 0.0015

Saturn 103290-11-13 12:13 G 39447274.90 39447275.01 39447275.12 0.0294 0.0156

Jupiter 103291-12-09 22:04 G 39447666.24 39447666.42 39447666.61 0.0514 0.0088

Venus 103293-10-01 05:01 G 39448327.61 39448327.71 39448327.81 0.3650 0.0359

Mars 103297-07-04 08:09 G 39449699.68 39449699.84 39449700.00 0.1911 0.0697

Jupiter 103297-08-09 21:35 G 39449736.27 39449736.40 39449736.52 0.0512 0.0011

Earth 103297-09-26 01:54 G 39449783.48 39449783.58 39449783.69 0.2686 0.2012

Moon 103297-09-26 03:35 G 39449783.57 39449783.65 39449783.73 0.2683 0.2314 *

Mars 103298-05-05 00:28 G 39450004.41 39450004.52 39450004.64 0.1637 0.0148

Neptune 103298-10-23 17:59 G 39450176.22 39450176.25 39450176.30 0.0088 0.0084

Neptune 103299-01-19 19:11 G 39450264.25 39450264.30 39450264.37 0.0088 0.0077

Venus 103299-04-16 20:09 G 39450351.25 39450351.34 39450351.43 0.3647 0.1416

Neptune 103299-04-17 20:37 G 39450352.29 39450352.36 39450352.44 0.0088 0.0070

Neptune 103299-07-14 21:49 G 39450440.33 39450440.41 39450440.51 0.0088 0.0063

Neptune 103299-10-10 23:16 G 39450528.37 39450528.47 39450528.57 0.0088 0.0056

Neptune 103300-01-07 00:13 G 39450616.42 39450616.51 39450616.63 0.0088 0.0050

Neptune 103300-04-05 01:40 G 39450704.46 39450704.57 39450704.69 0.0088 0.0043

Neptune 103300-07-02 02:52 G 39450792.51 39450792.62 39450792.75 0.0088 0.0036

Neptune 103300-09-28 04:18 G 39450880.56 39450880.68 39450880.81 0.0088 0.0029

Neptune 103300-12-25 05:30 G 39450968.61 39450968.73 39450968.86 0.0088 0.0022

Neptune 103301-03-23 06:42 G 39451056.66 39451056.78 39451056.92 0.0088 0.0016

Earth 103301-03-24 22:04 G 39451058.31 39451058.42 39451058.52 0.2647 0.0594

Moon 103301-03-24 22:33 G 39451058.34 39451058.44 39451058.55 0.2650 0.0745 *

Neptune 103301-06-19 08:09 G 39451144.71 39451144.84 39451144.97 0.0088 0.0009

Neptune 103301-09-15 09:21 G 39451232.76 39451232.89 39451233.02 0.0088 0.0002

Neptune 103301-12-12 10:33 G 39451320.81 39451320.94 39451321.07 0.0088 0.0005

Neptune 103302-03-10 11:45 G 39451408.86 39451408.99 39451409.13 0.0088 0.0012

Neptune 103302-06-06 12:57 G 39451496.92 39451497.04 39451497.18 0.0088 0.0019

Neptune 103302-09-02 14:09 G 39451584.97 39451585.09 39451585.22 0.0088 0.0026

Neptune 103302-11-29 15:35 G 39451673.03 39451673.15 39451673.27 0.0088 0.0032

Neptune 103303-02-25 16:47 G 39451761.08 39451761.20 39451761.32 0.0088 0.0039

Neptune 103303-05-24 17:59 G 39451849.14 39451849.25 39451849.37 0.0088 0.0046

Neptune 103303-08-20 18:57 G 39451937.20 39451937.29 39451937.41 0.0088 0.0053

Jupiter 103303-09-28 18:13 G 39451976.12 39451976.26 39451976.41 0.0513 0.0325

Neptune 103303-11-16 20:23 G 39452025.26 39452025.35 39452025.45 0.0088 0.0059

Neptune 103304-02-12 21:35 G 39452113.32 39452113.40 39452113.49 0.0088 0.0066

Neptune 103304-05-10 22:47 G 39452201.39 39452201.45 39452201.53 0.0088 0.0073

Neptune 103304-08-06 23:59 G 39452289.46 39452289.50 39452289.56 0.0088 0.0080

Venus 103304-10-31 11:16 G 39452374.92 39452374.97 39452375.02 0.3645 0.3144

Neptune 103304-11-03 01:25 G 39452377.54 39452377.56 39452377.58 0.0088 0.0086

Saturn 103306-02-27 02:52 G 39452858.48 39452858.62 39452858.75 0.0267 0.0187

Saturn 103306-05-27 00:57 G 39452947.35 39452947.54 39452947.73 0.0267 0.0001

Saturn 103306-08-23 23:01 G 39453036.34 39453036.46 39453036.60 0.0268 0.0192

Mars 103306-11-25 00:13 G 39453129.36 39453129.51 39453129.65 0.1902 0.0984

Mars 103307-09-26 11:59 G 39453434.90 39453435.00 39453435.11 0.1642 0.0640

Uranus 103309-05-29 13:11 G 39454046.03 39454046.05 39454046.06 0.0141 0.0139

Jupiter 103309-05-30 01:40 G 39454046.46 39454046.57 39454046.70 0.0513 0.0170

Uranus 103309-08-25 16:33 G 39454134.12 39454134.19 39454134.26 0.0141 0.0119

Jupiter 103309-08-27 05:30 G 39454135.68 39454135.73 39454135.79 0.0511 0.0450

Mars 103309-08-31 14:09 G 39454140.03 39454140.09 39454140.14 0.1622 0.1416

Uranus 103309-11-21 19:40 G 39454222.24 39454222.32 39454222.43 0.0141 0.0099

Uranus 103310-02-17 23:16 G 39454310.37 39454310.47 39454310.58 0.0141 0.0078

Uranus 103310-05-17 02:37 G 39454398.50 39454398.61 39454398.73 0.0141 0.0058

Uranus 103310-08-13 06:13 G 39454486.63 39454486.76 39454486.88 0.0141 0.0037

Uranus 103310-11-09 09:35 G 39454574.77 39454574.90 39454575.03 0.0141 0.0017

Uranus 103311-02-05 12:57 G 39454662.91 39454663.04 39454663.17 0.0141 0.0004

Uranus 103311-05-04 16:18 G 39454751.05 39454751.18 39454751.31 0.0141 0.0024

Uranus 103311-07-31 19:40 G 39454839.20 39454839.32 39454839.45 0.0141 0.0045

Uranus 103311-10-27 23:01 G 39454927.35 39454927.46 39454927.58 0.0141 0.0065

Uranus 103312-01-24 02:23 G 39455015.50 39455015.60 39455015.71 0.0141 0.0086

Uranus 103312-04-21 05:45 G 39455103.66 39455103.74 39455103.83 0.0141 0.0106

Uranus 103312-07-18 09:21 G 39455191.83 39455191.89 39455191.94 0.0141 0.0127

Earth 103314-03-27 14:52 G 39455809.06 39455809.12 39455809.19 0.2646 0.2102

Moon 103314-03-27 15:21 G 39455809.08 39455809.14 39455809.21 0.2641 0.2130 *

Jupiter 103315-10-16 04:18 G 39456376.57 39456376.68 39456376.80 0.0515 0.0399

Mars 103317-02-15 23:30 G 39456865.40 39456865.48 39456865.56 0.1648 0.1152

Mars 103319-01-22 01:40 G 39457570.47 39457570.57 39457570.66 0.1627 0.0925

Saturn 103319-10-08 15:35 G 39457830.06 39457830.15 39457830.23 0.0296 0.0217

Saturn 103320-01-05 03:21 G 39457918.52 39457918.64 39457918.77 0.0295 0.0048

Saturn 103320-04-02 15:21 G 39458007.02 39458007.14 39458007.26 0.0294 0.0120

Saturn 103320-06-30 02:52 G 39458095.60 39458095.62 39458095.65 0.0293 0.0285

Jupiter 103321-03-18 06:28 G 39458356.67 39458356.77 39458356.87 0.0514 0.0327

Earth 103321-03-20 16:33 G 39458359.13 39458359.19 39458359.25 0.2650 0.2135

Moon 103321-03-20 16:47 G 39458359.14 39458359.20 39458359.26 0.2656 0.2149 *

Jupiter 103321-06-15 10:18 G 39458445.83 39458445.93 39458446.03 0.0512 0.0298

Jupiter 103327-08-03 23:01 G 39460686.28 39460686.46 39460686.64 0.0514 0.0136

Mars 103328-06-13 12:57 G 39461000.93 39461001.04 39461001.16 0.1632 0.0435

Venus 103329-09-30 08:23 G 39461474.77 39461474.85 39461474.92 0.3722 0.3244

Earth 103330-09-24 23:16 G 39461834.32 39461834.47 39461834.61 0.2684 0.1172

Moon 103330-09-25 00:28 G 39461834.37 39461834.52 39461834.67 0.2679 0.1091 *

Jupiter 103333-01-04 11:01 G 39462666.92 39462666.96 39462667.00 0.0515 0.0485

Jupiter 103333-04-03 15:06 G 39462756.01 39462756.13 39462756.25 0.0512 0.0145

Earth 103334-03-23 09:35 G 39463109.80 39463109.90 39463110.01 0.2648 0.0621

Moon 103334-03-23 10:18 G 39463109.82 39463109.93 39463110.04 0.2649 0.0473 *

Saturn 103335-07-17 03:35 G 39463590.56 39463590.65 39463590.77 0.0267 0.0224

Saturn 103335-10-14 01:54 G 39463679.39 39463679.58 39463679.77 0.0267 0.0036

Saturn 103336-01-10 23:59 G 39463768.35 39463768.50 39463768.67 0.0268 0.0155

Mars 103337-01-03 08:52 G 39464126.72 39464126.87 39464127.02 0.1911 0.0826

Mars 103337-11-04 00:42 G 39464431.41 39464431.53 39464431.64 0.1637 0.0088

Venus 103339-04-09 19:54 G 39464953.28 39464953.33 39464953.37 0.3655 0.3289

Jupiter 103339-05-22 18:42 G 39464996.10 39464996.28 39464996.46 0.0513 0.0108

Venus 103344-10-23 11:01 G 39466976.87 39466976.96 39466977.05 0.3652 0.1501

Jupiter 103345-01-20 19:40 G 39467066.19 39467066.32 39467066.44 0.0513 0.0020

Mars 103346-05-26 00:57 G 39467556.39 39467556.54 39467556.70 0.1903 0.0840

Earth 103347-03-26 02:37 G 39467860.51 39467860.61 39467860.71 0.2647 0.0900

Moon 103347-03-26 03:06 G 39467860.53 39467860.63 39467860.73 0.2642 0.0918 *

Mars 103347-03-27 11:59 G 39467861.89 39467862.00 39467862.11 0.1642 0.0576

Saturn 103349-02-24 18:42 G 39468562.22 39468562.28 39468562.35 0.0296 0.0253

Mars 103349-03-01 14:09 G 39468567.04 39468567.09 39468567.13 0.1622 0.1480

Saturn 103349-05-24 06:42 G 39468650.65 39468650.78 39468650.90 0.0295 0.0083

Saturn 103349-08-20 18:28 G 39468739.15 39468739.27 39468739.40 0.0294 0.0085

Saturn 103349-11-17 06:13 G 39468827.70 39468827.76 39468827.83 0.0293 0.0250

Venus 103350-05-09 02:23 G 39469000.49 39469000.60 39469000.70 0.3649 0.0304

Uranus 103350-09-15 19:54 G 39469130.24 39469130.33 39469130.44 0.0137 0.0117

Uranus 103350-12-13 03:49 G 39469218.52 39469218.66 39469218.81 0.0137 0.0089

Pluto 103351-02-04 06:57 G 39469271.72 39469271.79 39469271.89 0.0084 0.0066

Jupiter 103351-03-10 14:37 G 39469305.98 39469306.11 39469306.25 0.0513 0.0347

Uranus 103351-03-11 11:30 G 39469306.81 39469306.98 39469307.16 0.0137 0.0061

Pluto 103351-05-03 08:23 G 39469359.74 39469359.85 39469359.97 0.0084 0.0047

Uranus 103351-06-07 19:25 G 39469395.12 39469395.31 39469395.50 0.0137 0.0033

Pluto 103351-07-30 09:35 G 39469447.78 39469447.90 39469448.03 0.0084 0.0028

Uranus 103351-09-04 03:06 G 39469483.44 39469483.63 39469483.83 0.0137 0.0006

Pluto 103351-10-26 10:47 G 39469535.82 39469535.95 39469536.09 0.0084 0.0009

Uranus 103351-12-01 10:47 G 39469571.76 39469571.95 39469572.15 0.0137 0.0023

Pluto 103352-01-22 11:59 G 39469623.87 39469624.00 39469624.14 0.0083 0.0011

Uranus 103352-02-27 18:42 G 39469660.10 39469660.28 39469660.46 0.0137 0.0050

Pluto 103352-04-19 13:25 G 39469711.93 39469712.06 39469712.18 0.0083 0.0029

Uranus 103352-05-26 02:23 G 39469748.44 39469748.60 39469748.76 0.0137 0.0078

Pluto 103352-07-16 14:23 G 39469800.00 39469800.10 39469800.22 0.0083 0.0047

Uranus 103352-08-22 10:04 G 39469836.80 39469836.92 39469837.05 0.0137 0.0106

Pluto 103352-10-12 15:21 G 39469888.08 39469888.14 39469888.24 0.0083 0.0066

Uranus 103352-11-18 17:30 G 39469925.21 39469925.23 39469925.28 0.0137 0.0134

Venus 103355-11-22 17:30 G 39471024.14 39471024.23 39471024.31 0.3647 0.2013

Mars 103356-08-16 23:30 G 39471292.39 39471292.48 39471292.56 0.1648 0.1092

Jupiter 103356-11-09 00:13 G 39471376.39 39471376.51 39471376.63 0.0513 0.0172

Jupiter 103357-02-06 03:49 G 39471465.61 39471465.66 39471465.73 0.0511 0.0447

Mars 103358-07-23 01:40 G 39471997.48 39471997.57 39471997.66 0.1627 0.0990

Moon 103360-03-27 19:25 G 39472611.26 39472611.31 39472611.35 0.2639 0.2400

Earth 103360-03-27 19:40 G 39472611.28 39472611.32 39472611.36 0.2646 0.2410 *

Jupiter 103363-03-28 01:11 G 39473706.44 39473706.55 39473706.68 0.0515 0.0384

Saturn 103365-03-02 01:25 G 39474411.38 39474411.56 39474411.74 0.0267 0.0084

Saturn 103365-05-29 23:30 G 39474500.31 39474500.48 39474500.66 0.0268 0.0105

Mars 103366-01-07 10:47 G 39474722.93 39474722.95 39474722.97 0.1653 0.1609

Earth 103367-03-21 21:21 G 39475161.31 39475161.39 39475161.47 0.2649 0.1821

Moon 103367-03-21 22:04 G 39475161.34 39475161.42 39475161.49 0.2649 0.1769 *

Mars 103367-12-13 12:57 G 39475427.93 39475428.04 39475428.15 0.1632 0.0494

Jupiter 103368-08-28 04:33 G 39475686.59 39475686.69 39475686.78 0.0514 0.0338

Jupiter 103368-11-25 08:23 G 39475775.75 39475775.85 39475775.96 0.0511 0.0286

Jupiter 103375-01-13 20:52 G 39478016.20 39478016.37 39478016.56 0.0514 0.0138

Mars 103376-07-04 09:49 G 39478553.77 39478553.91 39478554.06 0.1911 0.0983

Moon 103376-09-25 05:16 G 39478636.55 39478636.72 39478636.88 0.2679 0.0586

Earth 103376-09-25 06:13 G 39478636.60 39478636.76 39478636.92 0.2684 0.0418 *

Mars 103377-05-05 00:28 G 39478858.41 39478858.52 39478858.64 0.1637 0.0030

Saturn 103378-07-14 21:35 G 39479294.39 39479294.40 39479294.43 0.0296 0.0291

Saturn 103378-10-11 09:35 G 39479382.79 39479382.90 39479383.02 0.0295 0.0121

Saturn 103379-01-07 21:35 G 39479471.27 39479471.40 39479471.53 0.0294 0.0048

Saturn 103379-04-06 09:21 G 39479559.80 39479559.89 39479559.98 0.0293 0.0214

Earth 103380-03-23 14:23 G 39479911.99 39479912.10 39479912.21 0.2648 0.0306

Moon 103380-03-23 14:37 G 39479912.00 39479912.11 39479912.22 0.2642 0.0216 *

Jupiter 103380-06-16 08:52 G 39479996.85 39479996.87 39479996.90 0.0515 0.0498

Jupiter 103380-09-13 13:11 G 39480085.92 39480086.05 39480086.17 0.0512 0.0133

Neptune 103382-09-29 04:18 G 39480831.66 39480831.68 39480831.70 0.0090 0.0089

Neptune 103382-12-26 07:40 G 39480919.75 39480919.82 39480919.93 0.0090 0.0079

Neptune 103383-03-24 11:45 G 39481007.87 39481007.99 39481008.13 0.0090 0.0068

Neptune 103383-06-20 15:35 G 39481096.00 39481096.15 39481096.31 0.0090 0.0057

Neptune 103383-09-16 19:11 G 39481184.15 39481184.30 39481184.48 0.0090 0.0047

Neptune 103383-12-13 23:01 G 39481272.29 39481272.46 39481272.65 0.0090 0.0036

Neptune 103384-03-11 03:06 G 39481360.44 39481360.63 39481360.82 0.0090 0.0025

Neptune 103384-06-07 06:42 G 39481448.59 39481448.78 39481448.98 0.0090 0.0014

Neptune 103384-09-03 10:47 G 39481536.75 39481536.95 39481537.14 0.0090 0.0004

Neptune 103384-11-30 14:23 G 39481624.91 39481625.10 39481625.30 0.0090 0.0008

Neptune 103385-02-26 18:13 G 39481713.07 39481713.26 39481713.46 0.0090 0.0018

Neptune 103385-05-25 21:49 G 39481801.24 39481801.41 39481801.61 0.0090 0.0030

Neptune 103385-08-22 01:54 G 39481889.41 39481889.58 39481889.76 0.0090 0.0040

Neptune 103385-11-18 05:30 G 39481977.58 39481977.73 39481977.90 0.0090 0.0051

Mars 103385-11-24 01:54 G 39481983.43 39481983.58 39481983.74 0.1903 0.0695

Neptune 103386-02-14 09:21 G 39482065.76 39482065.89 39482066.04 0.0090 0.0062

Venus 103386-05-07 11:16 G 39482147.82 39482147.97 39482148.12 0.3724 0.1053

Neptune 103386-05-13 12:57 G 39482153.95 39482154.04 39482154.18 0.0090 0.0073

Neptune 103386-08-09 17:16 G 39482242.15 39482242.22 39482242.29 0.0090 0.0083

Mars 103386-09-25 11:59 G 39482288.89 39482289.00 39482289.11 0.1642 0.0517

Jupiter 103386-11-01 15:49 G 39482325.98 39482326.16 39482326.34 0.0513 0.0120

Mars 103388-08-30 13:54 G 39482994.05 39482994.08 39482994.12 0.1622 0.1541

Jupiter 103392-07-02 17:45 G 39484396.11 39484396.24 39484396.37 0.0513 0.0025

Moon 103393-03-26 06:57 G 39484662.69 39484662.79 39484662.89 0.2642 0.1080

Earth 103393-03-26 07:25 G 39484662.71 39484662.81 39484662.90 0.2647 0.1210 *

Uranus 103393-06-18 19:54 G 39484747.31 39484747.33 39484747.37 0.0141 0.0136

Uranus 103393-09-14 23:16 G 39484835.41 39484835.47 39484835.56 0.0141 0.0116

Uranus 103393-12-12 02:52 G 39484923.53 39484923.62 39484923.72 0.0141 0.0095

Uranus 103394-03-10 06:13 G 39485011.65 39485011.76 39485011.88 0.0141 0.0075

Uranus 103394-06-06 09:49 G 39485099.79 39485099.91 39485100.03 0.0141 0.0054

Saturn 103394-07-20 02:23 G 39485143.43 39485143.60 39485143.77 0.0267 0.0121

Uranus 103394-09-02 13:11 G 39485187.92 39485188.05 39485188.17 0.0141 0.0034

Saturn 103394-10-17 00:28 G 39485232.34 39485232.52 39485232.71 0.0268 0.0069

Uranus 103394-11-29 16:33 G 39485276.06 39485276.19 39485276.32 0.0141 0.0013

Saturn 103395-01-13 22:47 G 39485321.41 39485321.45 39485321.50 0.0269 0.0260

Uranus 103395-02-25 19:54 G 39485364.20 39485364.33 39485364.46 0.0141 0.0007

Uranus 103395-05-24 23:16 G 39485452.34 39485452.47 39485452.60 0.0141 0.0028

Uranus 103395-08-21 02:37 G 39485540.49 39485540.61 39485540.73 0.0141 0.0048

Venus 103395-11-14 17:16 G 39485626.15 39485626.22 39485626.29 0.3654 0.2672

Uranus 103395-11-17 05:59 G 39485628.64 39485628.75 39485628.87 0.0141 0.0069

Uranus 103396-02-13 09:21 G 39485716.79 39485716.89 39485716.99 0.0141 0.0089

Mars 103396-02-15 23:16 G 39485719.39 39485719.47 39485719.56 0.1648 0.1029

Uranus 103396-05-11 12:42 G 39485804.95 39485805.03 39485805.12 0.0141 0.0110

Uranus 103396-08-07 16:04 G 39485893.13 39485893.17 39485893.23 0.0141 0.0130

Mars 103398-01-21 01:25 G 39486424.48 39486424.56 39486424.65 0.1627 0.1053

Jupiter 103398-08-20 11:30 G 39486635.85 39486635.98 39486636.11 0.0512 0.0362

Venus 103401-05-31 08:23 G 39487649.75 39487649.85 39487649.95 0.3652 0.0890

Jupiter 103404-04-21 22:18 G 39488706.31 39488706.43 39488706.55 0.0513 0.0184

Jupiter 103404-07-20 01:54 G 39488795.52 39488795.58 39488795.65 0.0511 0.0436

Mars 103405-07-09 10:47 G 39489149.91 39489149.95 39489149.99 0.1653 0.1547

Moon 103406-03-29 23:45 G 39489413.49 39489413.49 39489413.49 0.2647 0.2644

Venus 103406-12-14 23:30 G 39489673.39 39489673.48 39489673.58 0.3649 0.0877

Mars 103407-06-14 12:57 G 39489854.94 39489855.04 39489855.15 0.1632 0.0559

Saturn 103408-02-29 12:57 G 39490114.94 39490115.04 39490115.15 0.0295 0.0155

Saturn 103408-05-28 00:57 G 39490203.41 39490203.54 39490203.67 0.0295 0.0014

Saturn 103408-08-24 12:42 G 39490291.93 39490292.03 39490292.13 0.0294 0.0180

Jupiter 103410-09-07 21:49 G 39491036.28 39491036.41 39491036.54 0.0515 0.0360

Venus 103412-06-29 14:52 G 39491697.05 39491697.12 39491697.18 0.3646 0.2609

Moon 103413-03-23 02:09 G 39491963.50 39491963.59 39491963.68 0.2642 0.1449

Earth 103413-03-23 02:09 G 39491963.50 39491963.59 39491963.67 0.2649 0.1514 *

Mars 103416-01-04 11:01 G 39492980.82 39492980.96 39492981.09 0.1911 0.1143

Jupiter 103416-02-09 02:52 G 39493016.53 39493016.62 39493016.71 0.0514 0.0341

Jupiter 103416-05-08 06:42 G 39493105.68 39493105.78 39493105.89 0.0511 0.0283

Mars 103416-11-04 00:28 G 39493285.40 39493285.52 39493285.64 0.1637 0.0052

Jupiter 103422-06-26 17:59 G 39495346.07 39495346.25 39495346.43 0.0514 0.0122

Moon 103422-09-27 11:30 G 39495438.81 39495438.98 39495439.14 0.2688 0.0192

Earth 103422-09-27 13:11 G 39495438.89 39495439.05 39495439.21 0.2685 0.0320 *

Saturn 103423-12-08 01:40 G 39495875.42 39495875.57 39495875.72 0.0267 0.0171

Saturn 103424-03-05 23:45 G 39495964.30 39495964.49 39495964.68 0.0267 0.0018

Saturn 103424-06-02 22:04 G 39496053.30 39496053.42 39496053.54 0.0268 0.0208

Mars 103425-05-26 02:52 G 39496410.46 39496410.62 39496410.78 0.1903 0.0555

Moon 103426-03-25 18:28 G 39496714.17 39496714.27 39496714.38 0.2645 0.0164

Earth 103426-03-25 19:11 G 39496714.19 39496714.30 39496714.40 0.2648 0.0072 *

Mars 103426-03-27 11:59 G 39496715.89 39496716.00 39496716.11 0.1642 0.0458

Jupiter 103427-11-28 06:57 G 39497326.78 39497326.79 39497326.81 0.0514 0.0507

Jupiter 103428-02-25 11:16 G 39497415.84 39497415.97 39497416.09 0.0512 0.0122

Mars 103428-03-01 13:54 G 39497421.07 39497421.08 39497421.09 0.1622 0.1602

Jupiter 103434-04-14 13:40 G 39499655.89 39499656.07 39499656.25 0.0513 0.0121

Uranus 103434-10-07 02:52 G 39499831.52 39499831.62 39499831.74 0.0137 0.0111

Uranus 103435-01-03 10:33 G 39499919.80 39499919.94 39499920.11 0.0137 0.0083

Uranus 103435-04-01 18:28 G 39500008.10 39500008.27 39500008.45 0.0137 0.0055

Uranus 103435-06-29 02:23 G 39500096.41 39500096.60 39500096.79 0.0137 0.0027

Mars 103435-08-17 23:16 G 39500146.38 39500146.47 39500146.56 0.1647 0.0969

Uranus 103435-09-25 10:04 G 39500184.72 39500184.92 39500185.11 0.0137 0.0001

Uranus 103435-12-22 17:45 G 39500273.05 39500273.24 39500273.43 0.0137 0.0028

Uranus 103436-03-20 01:11 G 39500361.39 39500361.55 39500361.74 0.0137 0.0057

Uranus 103436-06-16 09:21 G 39500449.73 39500449.89 39500450.04 0.0137 0.0084

Uranus 103436-09-12 16:47 G 39500538.10 39500538.20 39500538.32 0.0137 0.0112

Saturn 103437-07-18 15:49 G 39500847.06 39500847.16 39500847.26 0.0296 0.0197

Mars 103437-07-23 01:25 G 39500851.48 39500851.56 39500851.65 0.1627 0.1114

Saturn 103437-10-15 03:49 G 39500935.53 39500935.66 39500935.79 0.0295 0.0027

Saturn 103438-01-11 15:35 G 39501024.04 39501024.15 39501024.26 0.0294 0.0140

Moon 103439-03-28 11:30 G 39501464.89 39501464.98 39501465.07 0.2649 0.1474

Earth 103439-03-28 11:59 G 39501464.92 39501465.00 39501465.09 0.2647 0.1527 *

Jupiter 103439-12-14 15:49 G 39501726.03 39501726.16 39501726.29 0.0513 0.0036

Venus 103442-12-13 14:09 G 39502820.94 39502821.09 39502821.25 0.3725 0.1155

Mars 103445-01-07 10:47 G 39503576.90 39503576.95 39503576.99 0.1653 0.1489

Jupiter 103446-01-31 08:52 G 39503965.75 39503965.87 39503966.00 0.0512 0.0370

Mars 103446-12-13 12:57 G 39504281.93 39504282.04 39504282.15 0.1632 0.0615

Jupiter 103451-10-02 20:23 G 39506036.23 39506036.35 39506036.47 0.0514 0.0194

Jupiter 103451-12-31 00:13 G 39506125.44 39506125.51 39506125.58 0.0511 0.0428

Venus 103452-06-21 14:37 G 39506299.02 39506299.11 39506299.19 0.3654 0.2053

Saturn 103453-04-26 02:09 G 39506607.49 39506607.59 39506607.72 0.0267 0.0210

Saturn 103453-07-24 00:28 G 39506696.33 39506696.52 39506696.72 0.0267 0.0022

Saturn 103453-10-20 22:47 G 39506785.30 39506785.45 39506785.60 0.0268 0.0169

Mars 103455-07-05 11:30 G 39507407.85 39507407.98 39507408.11 0.1911 0.1261

Mars 103456-05-05 00:28 G 39507712.40 39507712.52 39507712.64 0.1637 0.0115

Venus 103458-01-05 05:45 G 39508322.64 39508322.74 39508322.84 0.3651 0.0287

Jupiter 103458-02-17 18:57 G 39508366.15 39508366.29 39508366.43 0.0514 0.0348

Moon 103459-03-24 06:13 G 39508765.67 39508765.76 39508765.86 0.2646 0.1246

Earth 103459-03-24 06:42 G 39508765.69 39508765.78 39508765.88 0.2649 0.1200 *

Neptune 103463-04-25 16:47 G 39510259.19 39510259.20 39510259.21 0.0088 0.0087

Venus 103463-07-21 20:52 G 39510346.28 39510346.37 39510346.47 0.3648 0.1469

Jupiter 103463-07-22 00:57 G 39510346.45 39510346.54 39510346.63 0.0514 0.0353 *

Neptune 103463-07-22 17:59 G 39510347.20 39510347.25 39510347.30 0.0088 0.0080

Neptune 103463-10-18 18:57 G 39510435.24 39510435.29 39510435.38 0.0088 0.0074

Jupiter 103463-10-19 04:47 G 39510435.60 39510435.70 39510435.81 0.0512 0.0272

Neptune 103464-01-14 20:23 G 39510523.28 39510523.35 39510523.45 0.0088 0.0067

Neptune 103464-04-11 21:49 G 39510611.32 39510611.41 39510611.51 0.0088 0.0060

Neptune 103464-07-08 23:01 G 39510699.36 39510699.46 39510699.57 0.0088 0.0053

Neptune 103464-10-05 00:28 G 39510787.41 39510787.52 39510787.63 0.0088 0.0046

Mars 103464-11-24 03:49 G 39510837.50 39510837.66 39510837.83 0.1904 0.0398

Neptune 103465-01-01 01:40 G 39510875.45 39510875.57 39510875.69 0.0088 0.0039

Neptune 103465-03-30 02:52 G 39510963.50 39510963.62 39510963.75 0.0088 0.0033

Neptune 103465-06-26 04:04 G 39511051.55 39511051.67 39511051.80 0.0088 0.0026

Neptune 103465-09-22 05:30 G 39511139.60 39511139.73 39511139.86 0.0088 0.0019

Mars 103465-09-25 11:59 G 39511142.88 39511143.00 39511143.11 0.1642 0.0395

Neptune 103465-12-19 06:42 G 39511227.65 39511227.78 39511227.91 0.0088 0.0012

Neptune 103466-03-17 07:54 G 39511315.70 39511315.83 39511315.97 0.0088 0.0006

Neptune 103466-06-13 09:21 G 39511403.76 39511403.89 39511404.02 0.0088 0.0002

Neptune 103466-09-09 10:33 G 39511491.81 39511491.94 39511492.07 0.0088 0.0008

Saturn 103466-12-05 18:57 G 39511579.22 39511579.29 39511579.38 0.0296 0.0231

Neptune 103466-12-06 11:45 G 39511579.86 39511579.99 39511580.12 0.0088 0.0015

Saturn 103467-03-04 07:11 G 39511667.67 39511667.80 39511667.92 0.0295 0.0061

Neptune 103467-03-04 12:57 G 39511667.92 39511668.04 39511668.17 0.0088 0.0022 *

Neptune 103467-05-31 14:09 G 39511755.97 39511756.09 39511756.22 0.0088 0.0029

Saturn 103467-05-31 18:57 G 39511756.17 39511756.29 39511756.41 0.0294 0.0107 *

Neptune 103467-08-27 15:21 G 39511844.03 39511844.14 39511844.27 0.0088 0.0036

Saturn 103467-08-28 06:42 G 39511844.74 39511844.78 39511844.83 0.0293 0.0272

Neptune 103467-11-23 16:33 G 39511932.08 39511932.19 39511932.31 0.0088 0.0043

Neptune 103468-02-19 17:59 G 39512020.14 39512020.25 39512020.36 0.0088 0.0049

Neptune 103468-05-17 19:11 G 39512108.20 39512108.30 39512108.40 0.0088 0.0056

Neptune 103468-08-13 20:09 G 39512196.26 39512196.34 39512196.44 0.0088 0.0063

Earth 103468-09-27 20:09 G 39512241.19 39512241.34 39512241.49 0.2685 0.1068

Moon 103468-09-27 20:09 G 39512241.20 39512241.34 39512241.49 0.2692 0.1024 *

Neptune 103468-11-09 21:21 G 39512284.33 39512284.39 39512284.48 0.0088 0.0070

Venus 103469-02-03 11:59 G 39512369.96 39512370.00 39512370.05 0.3645 0.3196

Neptune 103469-02-05 22:47 G 39512372.39 39512372.45 39512372.52 0.0088 0.0076

Neptune 103469-05-04 23:59 G 39512460.47 39512460.50 39512460.55 0.0088 0.0083

Jupiter 103469-12-06 14:37 G 39512675.92 39512676.11 39512676.29 0.0514 0.0102

Moon 103472-03-25 23:16 G 39513516.36 39513516.47 39513516.58 0.2652 0.0189

Earth 103472-03-25 23:45 G 39513516.39 39513516.49 39513516.60 0.2648 0.0333 *

Mars 103475-02-15 23:16 G 39514573.37 39514573.47 39514573.56 0.1647 0.0909

Jupiter 103475-05-10 05:30 G 39514656.72 39514656.73 39514656.75 0.0514 0.0508

Jupiter 103475-08-07 09:35 G 39514745.78 39514745.90 39514746.03 0.0512 0.0121

Mars 103477-01-21 01:25 G 39515278.48 39515278.56 39515278.64 0.1626 0.1175

Uranus 103477-07-10 02:52 G 39515448.59 39515448.62 39515448.67 0.0141 0.0133

Uranus 103477-10-06 06:28 G 39515536.69 39515536.77 39515536.85 0.0141 0.0112

Uranus 103478-01-02 09:49 G 39515624.82 39515624.91 39515625.01 0.0141 0.0092

Uranus 103478-03-31 13:11 G 39515712.94 39515713.05 39515713.17 0.0141 0.0071

Uranus 103478-06-27 16:33 G 39515801.07 39515801.19 39515801.32 0.0141 0.0051

Uranus 103478-09-23 19:54 G 39515889.21 39515889.33 39515889.47 0.0141 0.0031

Uranus 103478-12-20 23:30 G 39515977.35 39515977.48 39515977.61 0.0141 0.0010

Uranus 103479-03-19 02:52 G 39516065.49 39516065.62 39516065.75 0.0141 0.0011

Uranus 103479-06-15 06:13 G 39516153.63 39516153.76 39516153.89 0.0141 0.0031

Uranus 103479-09-11 09:35 G 39516241.78 39516241.90 39516242.02 0.0141 0.0051

Uranus 103479-12-08 12:57 G 39516329.93 39516330.04 39516330.15 0.0141 0.0072

Uranus 103480-03-05 16:18 G 39516418.08 39516418.18 39516418.28 0.0141 0.0092

Uranus 103480-06-01 19:40 G 39516506.24 39516506.32 39516506.40 0.0141 0.0113

Uranus 103480-08-28 22:47 G 39516594.42 39516594.45 39516594.50 0.0141 0.0134

Jupiter 103481-09-24 10:47 G 39516985.77 39516985.95 39516986.13 0.0513 0.0134

Saturn 103482-09-13 01:25 G 39517339.53 39517339.56 39517339.60 0.0266 0.0260

Saturn 103482-12-10 23:30 G 39517428.30 39517428.48 39517428.67 0.0267 0.0074

Saturn 103483-03-09 21:35 G 39517517.23 39517517.40 39517517.58 0.0267 0.0116

Mars 103484-07-08 10:33 G 39518003.89 39518003.94 39518004.00 0.1653 0.1429

Earth 103485-03-28 16:47 G 39518267.12 39518267.20 39518267.28 0.2646 0.1830

Moon 103485-03-28 17:01 G 39518267.13 39518267.21 39518267.28 0.2653 0.1897 *

Mars 103486-06-13 12:57 G 39518708.93 39518709.04 39518709.14 0.1631 0.0678

Jupiter 103487-05-26 14:09 G 39519055.96 39519056.09 39519056.21 0.0513 0.0042

Moon 103492-03-21 17:45 G 39520817.21 39520817.24 39520817.28 0.2648 0.2468

Earth 103492-03-21 18:28 G 39520817.23 39520817.27 39520817.31 0.2650 0.2403 *

Jupiter 103493-07-13 06:57 G 39521295.66 39521295.79 39521295.92 0.0513 0.0370

Venus 103494-01-03 05:01 G 39521469.70 39521469.71 39521469.72 0.3721 0.3703

Mars 103495-01-03 12:42 G 39521834.92 39521835.03 39521835.14 0.1912 0.1433

Mars 103495-11-04 00:28 G 39522139.40 39522139.52 39522139.63 0.1636 0.0181

Saturn 103496-04-23 21:21 G 39522311.35 39522311.39 39522311.44 0.0296 0.0279

Saturn 103496-07-21 09:21 G 39522399.77 39522399.89 39522400.02 0.0295 0.0108

Saturn 103496-10-17 21:21 G 39522488.26 39522488.39 39522488.52 0.0295 0.0061

Saturn 103497-01-14 09:06 G 39522576.80 39522576.88 39522576.96 0.0294 0.0227

Jupiter 103499-03-14 18:42 G 39523366.16 39523366.28 39523366.39 0.0513 0.0200

Jupiter 103499-06-11 22:33 G 39523455.37 39523455.44 39523455.51 0.0511 0.0421

Venus 103499-07-20 17:01 G 39523494.15 39523494.21 39523494.28 0.3726 0.3360

Earth 103501-09-26 17:30 G 39524292.13 39524292.23 39524292.32 0.2683 0.2126

Moon 103501-09-26 17:59 G 39524292.14 39524292.25 39524292.36 0.2690 0.1913 *

Venus 103503-07-14 20:37 G 39524948.32 39524948.36 39524948.41 0.3656 0.3229

Mars 103504-05-26 04:47 G 39525264.53 39525264.70 39525264.86 0.1903 0.0264

Pluto 103504-05-30 13:11 G 39525268.98 39525269.05 39525269.16 0.0060 0.0052

Pluto 103504-08-26 14:37 G 39525356.99 39525357.11 39525357.26 0.0060 0.0042

Pluto 103504-11-22 16:18 G 39525445.01 39525445.18 39525445.34 0.0060 0.0032

Pluto 103505-02-18 17:01 G 39525533.05 39525533.21 39525533.41 0.0060 0.0023

Moon 103505-03-25 11:01 G 39525567.87 39525567.96 39525568.06 0.2654 0.1002

Earth 103505-03-25 11:30 G 39525567.88 39525567.98 39525568.08 0.2649 0.0883 *

Mars 103505-03-27 11:45 G 39525569.88 39525569.99 39525570.11 0.1642 0.0337

Pluto 103505-05-17 18:28 G 39525621.10 39525621.27 39525621.47 0.0060 0.0013

Jupiter 103505-07-31 16:33 G 39525696.06 39525696.19 39525696.33 0.0514 0.0345

Pluto 103505-08-13 20:09 G 39525709.15 39525709.34 39525709.53 0.0060 0.0003

Pluto 103505-11-09 21:21 G 39525797.20 39525797.39 39525797.58 0.0060 0.0007

Pluto 103506-02-05 22:33 G 39525885.26 39525885.44 39525885.63 0.0060 0.0017

Pluto 103506-05-04 23:45 G 39525973.33 39525973.49 39525973.67 0.0060 0.0028

Pluto 103506-08-01 00:57 G 39526061.41 39526061.54 39526061.71 0.0060 0.0038

Pluto 103506-10-28 02:09 G 39526149.49 39526149.59 39526149.73 0.0060 0.0048

Pluto 103507-01-24 03:35 G 39526237.61 39526237.65 39526237.72 0.0060 0.0058

Venus 103509-01-27 11:59 G 39526971.90 39526972.00 39526972.09 0.3653 0.1442

Jupiter 103511-01-01 23:01 G 39527676.38 39527676.46 39527676.55 0.0514 0.0360

Jupiter 103511-04-01 03:06 G 39527765.53 39527765.63 39527765.74 0.0512 0.0267

Saturn 103512-04-29 23:45 G 39528160.32 39528160.49 39528160.66 0.0267 0.0117

Saturn 103512-07-27 21:49 G 39528249.23 39528249.41 39528249.60 0.0268 0.0072

Saturn 103512-10-24 19:54 G 39528338.31 39528338.33 39528338.38 0.0268 0.0263

Venus 103514-08-13 03:06 G 39528995.53 39528995.63 39528995.73 0.3650 0.0327

Mars 103514-08-17 23:16 G 39529000.37 39529000.47 39529000.57 0.1647 0.0844

Earth 103514-09-30 03:06 G 39529043.51 39529043.63 39529043.75 0.2685 0.1797

Moon 103514-09-30 05:01 G 39529043.60 39529043.71 39529043.82 0.2686 0.1965 *

Mars 103516-07-23 01:25 G 39529705.49 39529705.56 39529705.63 0.1627 0.1239

Jupiter 103517-05-19 12:13 G 39530005.83 39530006.01 39530006.20 0.0513 0.0100

Earth 103518-03-28 04:33 G 39530318.58 39530318.69 39530318.79 0.2647 0.0630

Moon 103518-03-28 04:47 G 39530318.59 39530318.70 39530318.80 0.2654 0.0718 *

Uranus 103518-08-01 01:11 G 39530444.54 39530444.55 39530444.60 0.0137 0.0136

Uranus 103518-10-28 09:06 G 39530532.77 39530532.88 39530533.01 0.0137 0.0107

Uranus 103519-01-24 17:01 G 39530621.06 39530621.21 39530621.37 0.0137 0.0079

Uranus 103519-04-23 00:42 G 39530709.35 39530709.53 39530709.71 0.0137 0.0051

Uranus 103519-07-20 08:23 G 39530797.66 39530797.85 39530798.05 0.0137 0.0024

Uranus 103519-10-16 16:18 G 39530885.98 39530886.18 39530886.37 0.0137 0.0004

Uranus 103520-01-12 23:59 G 39530974.31 39530974.50 39530974.69 0.0137 0.0032

Venus 103520-02-26 18:13 G 39531019.18 39531019.26 39531019.35 0.3647 0.2067

Uranus 103520-04-10 07:40 G 39531062.65 39531062.82 39531063.00 0.0137 0.0060

Uranus 103520-07-07 15:21 G 39531151.00 39531151.14 39531151.30 0.0137 0.0088

Uranus 103520-10-03 23:01 G 39531239.37 39531239.46 39531239.57 0.0137 0.0116

Jupiter 103523-01-18 07:54 G 39532075.71 39532075.83 39532075.95 0.0512 0.0112

Mars 103524-01-08 10:33 G 39532430.88 39532430.94 39532431.00 0.1653 0.1368

Saturn 103525-12-09 12:28 G 39533131.91 39533132.02 39533132.13 0.0296 0.0145

Mars 103525-12-13 12:57 G 39533135.93 39533136.04 39533136.14 0.1631 0.0744

Saturn 103526-03-08 00:28 G 39533220.39 39533220.52 39533220.65 0.0295 0.0025

Saturn 103526-06-04 12:13 G 39533308.92 39533309.01 39533309.11 0.0294 0.0191

Jupiter 103529-03-07 07:40 G 39534315.65 39534315.82 39534316.00 0.0513 0.0149

Earth 103531-03-30 21:35 G 39535069.33 39535069.40 39535069.46 0.2646 0.2143

Moon 103531-03-30 22:18 G 39535069.37 39535069.43 39535069.48 0.2647 0.2200 *

Mars 103534-07-05 13:40 G 39536261.98 39536262.07 39536262.16 0.1912 0.1584

Jupiter 103534-11-06 12:42 G 39536385.91 39536386.03 39536386.16 0.0513 0.0040

Mars 103535-05-06 00:13 G 39536566.40 39536566.51 39536566.63 0.1636 0.0244

Moon 103538-03-23 22:47 G 39537619.39 39537619.45 39537619.52 0.2655 0.2114

Earth 103538-03-23 23:16 G 39537619.40 39537619.47 39537619.53 0.2650 0.2089 *

Jupiter 103540-12-24 04:18 G 39538625.56 39538625.68 39538625.80 0.0513 0.0380

Saturn 103541-09-16 22:18 G 39538892.29 39538892.43 39538892.58 0.0266 0.0171

Saturn 103541-12-14 20:23 G 39538981.16 39538981.35 39538981.54 0.0267 0.0016

Saturn 103542-03-13 18:42 G 39539070.16 39539070.28 39539070.40 0.0268 0.0206

Mars 103543-11-25 05:45 G 39539691.57 39539691.74 39539691.91 0.1904 0.0118

Mars 103544-09-25 11:45 G 39539996.88 39539996.99 39539997.11 0.1642 0.0272

Jupiter 103546-08-25 17:16 G 39540696.10 39540696.22 39540696.33 0.0513 0.0201

Jupiter 103546-11-22 21:06 G 39540785.31 39540785.38 39540785.45 0.0511 0.0419

Neptune 103547-06-28 02:37 G 39541002.57 39541002.61 39541002.71 0.0090 0.0084

Neptune 103547-09-24 06:42 G 39541090.68 39541090.78 39541090.91 0.0090 0.0073

Earth 103547-09-28 00:28 G 39541094.38 39541094.52 39541094.66 0.2684 0.1373

Moon 103547-09-28 02:23 G 39541094.45 39541094.60 39541094.75 0.2684 0.1129 *

Neptune 103547-12-21 10:47 G 39541178.81 39541178.95 39541179.09 0.0090 0.0062

Neptune 103548-03-18 14:09 G 39541266.95 39541267.09 39541267.27 0.0090 0.0052

Neptune 103548-06-14 18:13 G 39541355.09 39541355.26 39541355.44 0.0090 0.0041

Neptune 103548-09-10 22:04 G 39541443.24 39541443.42 39541443.61 0.0090 0.0030

Neptune 103548-12-08 01:40 G 39541531.39 39541531.57 39541531.78 0.0090 0.0020

Neptune 103549-03-06 05:45 G 39541619.55 39541619.74 39541619.94 0.0090 0.0008

Neptune 103549-06-02 09:35 G 39541707.70 39541707.90 39541708.10 0.0090 0.0002

Neptune 103549-08-29 13:11 G 39541795.86 39541796.05 39541796.25 0.0090 0.0014

Neptune 103549-11-25 17:16 G 39541884.03 39541884.22 39541884.41 0.0090 0.0024

Neptune 103550-02-21 20:52 G 39541972.19 39541972.37 39541972.56 0.0090 0.0035

Neptune 103550-05-21 00:28 G 39542060.37 39542060.52 39542060.70 0.0090 0.0046

Venus 103550-08-11 07:54 G 39542142.68 39542142.83 39542142.97 0.3723 0.1541

Neptune 103550-08-17 04:18 G 39542148.54 39542148.68 39542148.85 0.0090 0.0057

Neptune 103550-11-13 08:23 G 39542236.72 39542236.85 39542236.98 0.0090 0.0067

Neptune 103551-02-09 11:59 G 39542324.92 39542325.00 39542325.11 0.0090 0.0078

Earth 103551-03-26 16:18 G 39542370.07 39542370.18 39542370.28 0.2648 0.0572

Moon 103551-03-26 16:33 G 39542370.09 39542370.19 39542370.30 0.2655 0.0553 *

Neptune 103551-05-08 15:35 G 39542413.15 39542413.15 39542413.20 0.0090 0.0089

Jupiter 103553-01-10 14:52 G 39543025.99 39543026.12 39543026.26 0.0515 0.0350

Mars 103553-04-15 22:04 G 39543121.36 39543121.42 39543121.47 0.1895 0.1768

Mars 103554-02-15 23:01 G 39543427.36 39543427.46 39543427.57 0.1647 0.0790

Saturn 103555-04-28 14:23 G 39543864.01 39543864.10 39543864.20 0.0296 0.0199

Saturn 103555-07-26 02:23 G 39543952.47 39543952.60 39543952.73 0.0295 0.0029

Saturn 103555-10-22 14:09 G 39544040.98 39544041.09 39544041.21 0.0294 0.0140

Mars 103556-01-22 01:25 G 39544132.49 39544132.56 39544132.62 0.1626 0.1300

Jupiter 103558-06-13 21:35 G 39545006.31 39545006.40 39545006.49 0.0514 0.0360

Jupiter 103558-09-11 01:40 G 39545095.46 39545095.57 39545095.68 0.0512 0.0265

Venus 103560-02-18 17:59 G 39545621.18 39545621.25 39545621.32 0.3655 0.2608

Earth 103560-09-30 10:18 G 39545845.88 39545845.93 39545845.97 0.2686 0.2550

Uranus 103561-07-31 10:18 G 39546149.88 39546149.93 39546149.98 0.0141 0.0128

Uranus 103561-10-27 13:25 G 39546237.99 39546238.06 39546238.15 0.0141 0.0108

Uranus 103562-01-23 16:47 G 39546326.11 39546326.20 39546326.31 0.0141 0.0088

Uranus 103562-04-21 20:23 G 39546414.24 39546414.35 39546414.47 0.0141 0.0067

Uranus 103562-07-18 23:45 G 39546502.37 39546502.49 39546502.62 0.0141 0.0047

Uranus 103562-10-15 03:06 G 39546590.50 39546590.63 39546590.76 0.0141 0.0027

Uranus 103563-01-11 06:28 G 39546678.64 39546678.77 39546678.91 0.0141 0.0008

Uranus 103563-04-09 10:04 G 39546766.79 39546766.92 39546767.05 0.0141 0.0015

Uranus 103563-07-06 13:11 G 39546854.93 39546855.05 39546855.18 0.0141 0.0035

Mars 103563-07-09 10:33 G 39546857.87 39546857.94 39546858.01 0.1653 0.1305

Uranus 103563-10-02 16:33 G 39546943.08 39546943.19 39546943.32 0.0141 0.0056

Uranus 103563-12-29 20:09 G 39547031.23 39547031.34 39547031.45 0.0141 0.0076

Uranus 103564-03-26 23:16 G 39547119.38 39547119.47 39547119.57 0.0141 0.0096

Earth 103564-03-28 09:06 G 39547120.78 39547120.88 39547120.99 0.2647 0.0949

Moon 103564-03-28 09:49 G 39547120.81 39547120.91 39547121.01 0.2646 0.1088 *

Uranus 103564-06-23 02:37 G 39547207.55 39547207.61 39547207.69 0.0141 0.0117

Uranus 103564-09-19 06:13 G 39547295.73 39547295.76 39547295.79 0.0141 0.0137

Jupiter 103564-10-29 10:18 G 39547335.75 39547335.93 39547336.12 0.0513 0.0103

Mars 103565-06-13 12:42 G 39547562.93 39547563.03 39547563.13 0.1631 0.0803

Venus 103565-09-03 09:21 G 39547644.79 39547644.89 39547644.99 0.3652 0.0829

Jupiter 103570-06-30 06:13 G 39549405.64 39549405.76 39549405.89 0.0513 0.0111

Saturn 103571-02-03 21:49 G 39549624.31 39549624.41 39549624.53 0.0266 0.0219

Venus 103571-03-20 00:28 G 39549668.42 39549668.52 39549668.62 0.3649 0.0929

Saturn 103571-05-03 19:54 G 39549713.14 39549713.33 39549713.52 0.0267 0.0033

Saturn 103571-07-31 18:13 G 39549802.10 39549802.26 39549802.41 0.0268 0.0157

Mars 103574-01-03 14:23 G 39550689.03 39550689.10 39550689.17 0.1912 0.1714

Mars 103574-11-04 00:13 G 39550993.40 39550993.51 39550993.63 0.1636 0.0309

Jupiter 103576-08-17 06:13 G 39551645.58 39551645.76 39551645.94 0.0513 0.0140

Venus 103576-10-02 15:35 G 39551692.09 39551692.15 39551692.22 0.3647 0.2664

Earth 103577-03-31 02:09 G 39551871.56 39551871.59 39551871.63 0.2646 0.2456

Moon 103577-03-31 02:23 G 39551871.57 39551871.60 39551871.64 0.2640 0.2483 *

Jupiter 103582-04-18 11:01 G 39553715.84 39553715.96 39553716.09 0.0513 0.0046

Mars 103583-05-26 06:42 G 39554118.61 39554118.78 39554118.95 0.1904 0.0050

Earth 103584-03-24 03:49 G 39554421.59 39554421.66 39554421.74 0.2650 0.1783

Moon 103584-03-24 04:18 G 39554421.61 39554421.68 39554421.76 0.2655 0.1753 *

Mars 103584-03-26 11:45 G 39554423.88 39554423.99 39554424.10 0.1641 0.0208

Saturn 103584-09-14 17:01 G 39554596.14 39554596.21 39554596.29 0.0296 0.0240

Saturn 103584-12-12 05:16 G 39554684.59 39554684.72 39554684.84 0.0295 0.0069

Saturn 103585-03-10 17:01 G 39554773.09 39554773.21 39554773.34 0.0295 0.0100

Saturn 103585-06-07 04:47 G 39554861.65 39554861.70 39554861.76 0.0294 0.0266

Jupiter 103588-06-05 01:25 G 39555955.45 39555955.56 39555955.69 0.0513 0.0389

Mars 103592-10-14 22:47 G 39557548.37 39557548.45 39557548.54 0.1895 0.1624

Mars 103593-08-16 23:01 G 39557854.36 39557854.46 39557854.57 0.1647 0.0725

Earth 103593-09-28 07:25 G 39557896.65 39557896.81 39557896.97 0.2684 0.0629

Moon 103593-09-28 07:54 G 39557896.67 39557896.83 39557896.99 0.2677 0.0691 *

Jupiter 103594-02-04 16:04 G 39558026.05 39558026.17 39558026.29 0.0513 0.0193

Jupiter 103594-05-04 19:54 G 39558115.26 39558115.33 39558115.40 0.0511 0.0425

Mars 103595-07-23 01:11 G 39558559.49 39558559.55 39558559.62 0.1626 0.1366

Earth 103597-03-26 20:52 G 39559172.27 39559172.37 39559172.48 0.2648 0.0281

Moon 103597-03-26 21:35 G 39559172.29 39559172.40 39559172.51 0.2647 0.0105 *

Pluto 103599-05-31 14:09 G 39559968.03 39559968.09 39559968.16 0.0084 0.0072

Pluto 103599-08-27 15:21 G 39560056.04 39560056.14 39560056.25 0.0084 0.0053

Pluto 103599-11-23 16:33 G 39560144.07 39560144.19 39560144.32 0.0084 0.0034

Pluto 103600-02-19 17:45 G 39560232.11 39560232.24 39560232.38 0.0084 0.0016

Pluto 103600-05-17 18:57 G 39560320.16 39560320.29 39560320.43 0.0084 0.0004

Jupiter 103600-06-22 12:28 G 39560355.89 39560356.02 39560356.16 0.0515 0.0345

Pluto 103600-08-13 20:09 G 39560408.22 39560408.34 39560408.48 0.0083 0.0022

Saturn 103600-09-19 18:13 G 39560445.08 39560445.26 39560445.45 0.0266 0.0089

Pluto 103600-11-09 21:21 G 39560496.28 39560496.39 39560496.51 0.0083 0.0041

Saturn 103600-12-17 16:18 G 39560534.00 39560534.18 39560534.36 0.0267 0.0099

Pluto 103601-02-05 22:33 G 39560584.35 39560584.44 39560584.54 0.0083 0.0059

Pluto 103601-05-04 23:45 G 39560672.45 39560672.49 39560672.54 0.0083 0.0077

Uranus 103602-08-21 07:25 G 39561145.78 39561145.81 39561145.89 0.0137 0.0132

Uranus 103602-11-17 15:21 G 39561234.02 39561234.14 39561234.28 0.0137 0.0103

Mars 103603-01-07 10:33 G 39561284.86 39561284.94 39561285.01 0.1653 0.1246

Uranus 103603-02-13 23:16 G 39561322.31 39561322.47 39561322.63 0.0137 0.0075

Uranus 103603-05-13 06:42 G 39561410.61 39561410.78 39561410.98 0.0137 0.0048

Uranus 103603-08-09 14:37 G 39561498.92 39561499.11 39561499.31 0.0137 0.0020

Uranus 103603-11-05 22:33 G 39561587.24 39561587.44 39561587.63 0.0137 0.0008

Uranus 103604-02-02 05:59 G 39561675.57 39561675.75 39561675.95 0.0137 0.0036

Uranus 103604-04-30 13:40 G 39561763.91 39561764.07 39561764.25 0.0137 0.0064

Uranus 103604-07-27 21:21 G 39561852.26 39561852.39 39561852.55 0.0137 0.0092

Uranus 103604-10-24 05:16 G 39561940.63 39561940.72 39561940.82 0.0137 0.0119

Mars 103604-12-12 12:42 G 39561989.93 39561990.03 39561990.13 0.1631 0.0865

Jupiter 103605-11-23 20:23 G 39562336.26 39562336.35 39562336.45 0.0514 0.0354

Jupiter 103606-02-21 00:28 G 39562425.41 39562425.52 39562425.63 0.0511 0.0270

Venus 103607-03-18 10:47 G 39562815.79 39562815.95 39562816.11 0.3724 0.0647

Moon 103610-03-29 14:09 G 39563922.99 39563923.09 39563923.19 0.2641 0.1228

Earth 103610-03-29 13:54 G 39563922.99 39563923.08 39563923.18 0.2647 0.1259 *

Jupiter 103612-04-10 08:52 G 39564665.69 39564665.87 39564666.05 0.0514 0.0110

Mars 103613-07-04 15:21 G 39565116.11 39565116.14 39565116.17 0.1912 0.1876

Saturn 103614-05-01 06:28 G 39565416.66 39565416.77 39565416.89 0.0296 0.0131

Mars 103614-05-05 00:13 G 39565420.40 39565420.51 39565420.62 0.1636 0.0361

Saturn 103614-07-28 18:28 G 39565505.14 39565505.27 39565505.40 0.0295 0.0039

Saturn 103614-10-25 06:13 G 39565593.67 39565593.76 39565593.85 0.0294 0.0207

Venus 103616-09-24 15:21 G 39566294.06 39566294.14 39566294.23 0.3654 0.1991

Jupiter 103617-09-12 00:57 G 39566646.54 39566646.54 39566646.55 0.0515 0.0513

Jupiter 103617-12-10 05:16 G 39566735.59 39566735.72 39566735.84 0.0512 0.0116

Venus 103622-04-10 06:42 G 39568317.68 39568317.78 39568317.88 0.3651 0.0217

Mars 103622-11-24 07:25 G 39568545.64 39568545.81 39568545.98 0.1904 0.0188

Mars 103623-09-25 11:45 G 39568850.87 39568850.99 39568851.10 0.1641 0.0153

Jupiter 103624-01-28 04:47 G 39568975.52 39568975.70 39568975.88 0.0513 0.0131

Venus 103627-10-24 21:49 G 39570341.32 39570341.41 39570341.50 0.3649 0.1531

Neptune 103628-01-21 16:18 G 39570430.16 39570430.18 39570430.24 0.0088 0.0084

Neptune 103628-04-18 17:45 G 39570518.19 39570518.24 39570518.31 0.0088 0.0077

Neptune 103628-07-15 19:11 G 39570606.23 39570606.30 39570606.38 0.0088 0.0070

Neptune 103628-10-11 20:23 G 39570694.27 39570694.35 39570694.45 0.0088 0.0063

Neptune 103629-01-07 21:49 G 39570782.31 39570782.41 39570782.51 0.0088 0.0056

Neptune 103629-04-05 22:47 G 39570870.35 39570870.45 39570870.57 0.0088 0.0050

Neptune 103629-07-03 00:13 G 39570958.40 39570958.51 39570958.63 0.0088 0.0043

Jupiter 103629-09-28 09:49 G 39571045.78 39571045.91 39571046.04 0.0513 0.0042

Neptune 103629-09-29 01:25 G 39571046.45 39571046.56 39571046.69 0.0088 0.0036

Neptune 103629-12-26 02:52 G 39571134.50 39571134.62 39571134.75 0.0088 0.0029

Saturn 103630-02-06 17:01 G 39571177.06 39571177.21 39571177.38 0.0266 0.0144

Neptune 103630-03-24 04:04 G 39571222.55 39571222.67 39571222.80 0.0088 0.0022

Earth 103630-03-25 08:37 G 39571223.77 39571223.86 39571223.95 0.2650 0.1468

Moon 103630-03-25 09:21 G 39571223.80 39571223.89 39571223.98 0.2648 0.1386 *

Saturn 103630-05-06 15:21 G 39571265.95 39571266.14 39571266.33 0.0267 0.0044

Neptune 103630-06-20 05:16 G 39571310.60 39571310.72 39571310.86 0.0088 0.0016

Saturn 103630-08-03 13:25 G 39571354.97 39571355.06 39571355.15 0.0268 0.0234

Neptune 103630-09-16 06:42 G 39571398.65 39571398.78 39571398.91 0.0088 0.0009

Neptune 103630-12-13 07:54 G 39571486.70 39571486.83 39571486.96 0.0088 0.0002

Neptune 103631-03-11 09:06 G 39571574.75   39571574.88   39571575.02 0.0088 0.0006

Neptune 103631-06-07 10:33 G 39571662.80   39571662.94   39571663.07 0.0088 0.0012

Neptune 103631-09-03 11:30 G 39571750.86   39571750.98   39571751.12 0.0088 0.0019

Neptune 103631-11-30 12:42 G 39571838.91   39571839.03   39571839.17 0.0088 0.0026

Neptune 103632-02-26 14:09 G 39571926.97   39571927.09   39571927.21 0.0088 0.0032

Mars   103632-04-14 23:30 G 39571975.38   39571975.48   39571975.59 0.1896 0.1495

Neptune 103632-05-24 15:21 G 39572015.03   39572015.14   39572015.26 0.0088 0.0039

Neptune 103632-08-20 16:33 G 39572103.08   39572103.19   39572103.31 0.0088 0.0046

Neptune 103632-11-16 17:45 G 39572191.14   39572191.24   39572191.35 0.0088 0.0053

Neptune 103633-02-12 19:11 G 39572279.20   39572279.30   39572279.39 0.0088 0.0059

Mars   103633-02-14 23:01 G 39572281.36   39572281.46   39572281.57 0.1647 0.0662

Venus   103633-05-09 12:57 G 39572365.00   39572365.04   39572365.09 0.3646 0.3256

Neptune 103633-05-11 20:23 G 39572367.27   39572367.35   39572367.44 0.0088 0.0066

Neptune 103633-08-07 21:21 G 39572455.33   39572455.39   39572455.47 0.0088 0.0073

Neptune 103633-11-03 22:33 G 39572543.40   39572543.44   39572543.51 0.0088 0.0080

Neptune 103634-01-31 00:13 G 39572631.49   39572631.51   39572631.53 0.0088 0.0086

Mars   103635-01-21 01:11 G 39572986.50   39572986.55   39572986.61 0.1626 0.1429

Jupiter 103635-11-16 00:42 G 39573285.41   39573285.53   39573285.66 0.0512 0.0369

Moon   103639-09-29 12:57 G 39574698.88   39574699.04   39574699.21 0.2680 0.0053

Earth   103639-09-29 14:37 G 39574698.94   39574699.11   39574699.27 0.2684 0.0129 *

Jupiter 103641-07-17 14:37 G 39575355.99   39575356.11   39575356.23 0.0513 0.0193

Jupiter 103641-10-14 18:28 G 39575445.21   39575445.27   39575445.34 0.0511 0.0426

Mars   103642-07-08 10:33 G 39575711.86   39575711.94   39575712.02 0.1652 0.1185

Moon   103643-03-28 01:40 G 39575974.46   39575974.57   39575974.68 0.2641 0.0077

Earth   103643-03-28 01:40 G 39575974.46   39575974.57   39575974.68 0.2648 0.0052 *

Saturn   103643-09-18 08:52 G 39576148.77   39576148.87   39576148.97 0.0296 0.0176

Saturn   103643-12-15 20:52 G 39576237.24   39576237.37   39576237.50 0.0295 0.0006

Saturn   103644-03-13 08:37 G 39576325.76   39576325.86   39576325.97 0.0294 0.0163

Mars   103644-06-12 12:42 G 39576416.94   39576417.03   39576417.13 0.1631 0.0931

Uranus   103645-08-20 17:16 G 39576851.17   39576851.22   39576851.29 0.0141 0.0123

Uranus 103645-11-16 20:52 G 39576939.28 39576939.37 39576939.46 0.0141 0.0103

Uranus 103646-02-13 00:13 G 39577027.41 39577027.51 39577027.62 0.0141 0.0083

Uranus 103646-05-12 03:35 G 39577115.54 39577115.65 39577115.77 0.0141 0.0062

Uranus 103646-08-08 06:57 G 39577203.67 39577203.79 39577203.92 0.0141 0.0042

Uranus 103646-11-04 10:18 G 39577291.81 39577291.93 39577292.07 0.0141 0.0022

Uranus 103647-01-31 13:54 G 39577379.95 39577380.08 39577380.21 0.0141 0.0004

Uranus 103647-04-29 17:16 G 39577468.09 39577468.22 39577468.35 0.0141 0.0019

Uranus 103647-07-26 20:37 G 39577556.23 39577556.36 39577556.48 0.0141 0.0040

Uranus 103647-10-22 23:59 G 39577644.38 39577644.50 39577644.62 0.0141 0.0060

Jupiter 103647-12-03 10:18 G 39577685.79 39577685.93 39577686.07 0.0515 0.0341

Uranus 103648-01-19 03:21 G 39577732.53 39577732.64 39577732.75 0.0141 0.0080

Uranus 103648-04-16 06:42 G 39577820.69 39577820.78 39577820.87 0.0141 0.0101

Uranus 103648-07-13 09:49 G 39577908.86 39577908.91 39577908.99 0.0141 0.0122

Jupiter 103653-05-05 19:40 G 39579666.23 39579666.32 39579666.41 0.0514 0.0342

Jupiter 103653-08-02 23:30 G 39579755.38 39579755.48 39579755.59 0.0511 0.0281

Mars 103653-11-03 00:13 G 39579847.40 39579847.51 39579847.62 0.1636 0.0425

Moon 103656-03-29 17:59 G 39580725.16 39580725.25 39580725.34 0.2644 0.1453

Earth 103656-03-29 18:42 G 39580725.19 39580725.28 39580725.36 0.2647 0.1570 *

Saturn 103659-06-26 15:21 G 39581909.02 39581909.14 39581909.26 0.0265 0.0201

Jupiter 103659-09-21 06:42 G 39581995.60 39581995.78 39581995.97 0.0514 0.0110

Saturn 103659-09-23 13:11 G 39581997.86 39581998.05 39581998.24 0.0266 0.0016

Saturn 103659-12-21 11:16 G 39582086.82 39582086.97 39582087.12 0.0267 0.0172

Mars 103662-05-25 08:23 G 39582972.68 39582972.85 39582973.02 0.1904 0.0329

Moon 103663-03-23 20:52 G 39583275.36 39583275.37 39583275.38 0.2647 0.2629

Mars 103663-03-26 11:45 G 39583277.87 39583277.99 39583278.10 0.1641 0.0107

Venus 103663-10-23 13:40 G 39583488.97 39583489.07 39583489.17 0.3725 0.2870

Jupiter 103665-02-21 23:59 G 39583976.48 39583976.50 39583976.53 0.0514 0.0502

Jupiter 103665-05-22 04:18 G 39584065.55 39584065.68 39584065.80 0.0512 0.0126

Venus 103667-10-16 21:35 G 39584943.35 39584943.40 39584943.45 0.3656 0.3157

Jupiter 103671-07-10 03:21 G 39586305.46 39586305.64 39586305.82 0.0513 0.0121

Mars 103671-10-15 00:42 G 39586402.42 39586402.53 39586402.66 0.1896 0.1329

Mars 103672-08-15 23:01 G 39586708.35 39586708.46 39586708.57 0.1647 0.0601

Saturn 103673-02-04 09:49 G 39586880.84 39586880.91 39586880.98 0.0297 0.0244

Venus 103673-05-01 12:57 G 39586966.94 39586967.04 39586967.13 0.3653 0.1380

Saturn 103673-05-03 21:49 G 39586969.29 39586969.41 39586969.54 0.0296 0.0072

Saturn 103673-07-31 09:49 G 39587057.79 39587057.91 39587058.03 0.0295 0.0098

Saturn 103673-10-27 21:35 G 39587146.35 39587146.40 39587146.46 0.0294 0.0265

Mars 103674-07-22 01:11 G 39587413.51 39587413.55 39587413.59 0.1626 0.1490

Moon 103676-03-25 13:11 G 39588025.95 39588026.05 39588026.15 0.2643 0.1131

Earth 103676-03-25 13:25 G 39588025.96 39588026.06 39588026.15 0.2649 0.1157 *

Jupiter 103677-03-10 08:52 G 39588375.74 39588375.87 39588376.00 0.0513 0.0030

Venus 103678-11-15 04:04 G 39588990.57 39588990.67 39588990.77 0.3651 0.0389

Mars 103682-01-06 10:33 G 39590138.85 39590138.94 39590139.02 0.1652 0.1124

Jupiter 103683-04-27 23:45 G 39590615.35 39590615.49 39590615.62 0.0512 0.0355

Mars 103683-12-12 12:42 G 39590843.94 39590844.03 39590844.12 0.1631 0.0992

Venus 103684-05-30 19:11 G 39591014.22 39591014.30 39591014.38 0.3648 0.2126

Moon 103685-09-29 20:09 G 39591501.19 39591501.34 39591501.50 0.2689 0.0763

Earth 103685-09-29 21:35 G 39591501.24 39591501.40 39591501.55 0.2684 0.0860 *

Uranus 103686-09-10 14:09 G 39591847.02 39591847.09 39591847.17 0.0137 0.0127

Uranus 103686-12-07 21:35 G 39591935.28 39591935.40 39591935.55 0.0137 0.0099

Uranus 103687-03-06 05:30 G 39592023.57 39592023.73 39592023.90 0.0137 0.0071

Uranus 103687-06-02 13:25 G 39592111.87 39592112.06 39592112.24 0.0137 0.0043

Uranus 103687-08-29 20:52 G 39592200.18 39592200.37 39592200.57 0.0137 0.0016

Uranus 103687-11-26 04:47 G 39592288.50 39592288.70 39592288.89 0.0137 0.0012

Uranus 103688-02-22 12:28 G 39592376.83 39592377.02 39592377.21 0.0137 0.0040

Uranus 103688-05-20 19:54 G 39592465.17 39592465.33 39592465.51 0.0137 0.0068

Uranus 103688-08-17 03:35 G 39592553.52 39592553.65 39592553.80 0.0137 0.0096

Saturn 103688-11-12 13:25 G 39592641.04 39592641.06 39592641.11 0.0266 0.0260

Uranus 103688-11-13 11:30 G 39592641.90 39592641.98 39592642.07 0.0137 0.0123

Jupiter 103688-12-27 13:25 G 39592685.94 39592686.06 39592686.18 0.0514 0.0188

Saturn 103689-02-09 11:30 G 39592729.80 39592729.98 39592730.17 0.0266 0.0075

Jupiter 103689-03-26 17:16 G 39592775.16 39592775.22 39592775.29 0.0511 0.0432

Moon 103689-03-28 05:45 G 39592776.63 39592776.74 39592776.85 0.2646 0.0205

Earth 103689-03-28 06:28 G 39592776.66 39592776.77 39592776.87 0.2648 0.0378 *

Saturn 103689-05-09 09:35 G 39592818.73 39592818.90 39592819.07 0.0267 0.0113

Mars 103691-05-29 21:49 G 39593569.40 39593569.41 39593569.41 0.1658 0.1651

Mars 103693-05-04 00:13 G 39594274.40 39594274.51 39594274.62 0.1636 0.0490

Jupiter 103695-05-15 09:49 G 39595015.79 39595015.91 39595016.04 0.0514 0.0368

Jupiter 103700-10-16 18:13 G 39596996.17 39596996.26 39596996.36 0.0514 0.0339

Jupiter 103701-01-13 22:18 G 39597085.33 39597085.43 39597085.54 0.0511 0.0285

Mars 103701-11-24 09:35 G 39597399.73 39597399.90 39597400.06 0.1905 0.0496

Moon 103702-03-31 22:47 G 39597527.38 39597527.45 39597527.53 0.2652 0.1873

Earth 103702-03-31 23:16 G 39597527.40 39597527.47 39597527.55 0.2647 0.1883 *

Saturn 103702-06-25 11:30 G 39597612.98 39597612.98 39597613.00 0.0297 0.0296

Saturn 103702-09-21 23:45 G 39597701.38 39597701.49 39597701.61 0.0296 0.0123

Mars 103702-09-25 11:30 G 39597704.87 39597704.98 39597705.10 0.1641 0.0061

Saturn 103702-12-19 11:45 G 39597789.87 39597789.99 39597790.12 0.0295 0.0049

Saturn 103703-03-17 23:45 G 39597878.40 39597878.49 39597878.58 0.0294 0.0215

Jupiter 103707-03-04 04:47 G 39599325.52 39599325.70 39599325.89 0.0514 0.0111

Moon 103709-03-25 00:57 G 39600077.50 39600077.54 39600077.58 0.2645 0.2422

Earth 103709-03-25 01:11 G 39600077.50 39600077.55 39600077.59 0.2651 0.2366 *

Mars 103711-04-16 01:40 G 39600829.44 39600829.57 39600829.70 0.1896 0.1190

Neptune 103711-12-27 21:49 G 39601085.40 39601085.41 39601085.46 0.0090 0.0089

Mars 103712-02-15 23:01 G 39601135.35 39601135.46 39601135.57 0.1647 0.0541

Neptune 103712-03-25 01:40 G 39601173.49 39601173.57 39601173.68 0.0090 0.0078

Neptune 103712-06-21 05:16 G 39601261.62 39601261.72 39601261.87 0.0090 0.0068

Jupiter 103712-08-04 23:16 G 39601306.44 39601306.47 39601306.51 0.0514 0.0486

Neptune 103712-09-17 09:21 G 39601349.75 39601349.89 39601350.05 0.0090 0.0057

Jupiter 103712-11-02 03:35 G 39601395.52 39601395.65 39601395.77 0.0512 0.0141

Neptune 103712-12-14 13:11 G 39601437.89 39601438.05 39601438.23 0.0090 0.0046

Neptune 103713-03-12 16:47 G 39601526.04 39601526.20 39601526.40 0.0090 0.0036

Neptune 103713-06-08 20:52 G 39601614.18 39601614.37 39601614.56 0.0090 0.0024

Neptune 103713-09-05 00:42 G 39601702.34 39601702.53 39601702.73 0.0090 0.0014

Neptune 103713-12-02 04:33 G 39601790.49 39601790.69 39601790.89 0.0090 0.0003

Mars 103714-01-21 01:11 G 39601840.52 39601840.55 39601840.58 0.1626 0.1554

Neptune 103714-02-28 08:23 G 39601878.65 39601878.85 39601879.04 0.0090 0.0008

Neptune 103714-05-27 11:59 G 39601966.81 39601967.00 39601967.20 0.0090 0.0019

Neptune 103714-08-23 15:35 G 39602054.98 39602055.15 39602055.35 0.0090 0.0030

Venus 103714-11-14 04:33 G 39602137.55 39602137.69 39602137.82 0.3722 0.1996

Neptune 103714-11-19 19:40 G 39602143.15 39602143.32 39602143.50 0.0090 0.0040

Neptune 103715-02-15 23:16 G 39602231.32 39602231.47 39602231.64 0.0090 0.0051

Neptune 103715-05-15 03:06 G 39602319.50 39602319.63 39602319.78 0.0090 0.0062

Neptune 103715-08-11 06:42 G 39602407.69 39602407.78 39602407.92 0.0090 0.0073

Neptune 103715-11-07 10:47 G 39602495.89 39602495.95 39602496.03 0.0090 0.0083

Saturn 103718-06-30 09:35 G 39603461.73 39603461.90 39603462.06 0.0265 0.0135

Saturn 103718-09-27 07:25 G 39603550.62 39603550.81 39603551.00 0.0266 0.0051

Moon 103718-09-28 17:45 G 39603552.18 39603552.24 39603552.31 0.2688 0.2418

Earth 103718-09-28 18:42 G 39603552.20 39603552.28 39603552.37 0.2683 0.2316 *

Jupiter 103718-12-21 01:40 G 39603635.38 39603635.57 39603635.75 0.0514 0.0118

Saturn 103718-12-25 05:16 G 39603639.64 39603639.72 39603639.81 0.0267 0.0239

Mars 103721-07-08 10:18 G 39604565.85 39604565.93 39604566.02 0.1652 0.1062

Moon 103722-03-27 17:30 G 39604828.13 39604828.23 39604828.33 0.2648 0.0941

Earth 103722-03-27 17:59 G 39604828.15 39604828.25 39604828.36 0.2649 0.0848 *

Mars 103723-06-13 12:42 G 39605270.94 39605271.03 39605271.11 0.1631 0.1056

Venus 103724-05-23 18:57 G 39605616.22 39605616.29 39605616.36 0.3655 0.2539

Jupiter 103724-08-21 08:09 G 39605705.71 39605705.84 39605705.97 0.0512 0.0015

Uranus 103729-06-14 21:06 G 39607464.37 39607464.38 39607464.41 0.0141 0.0139

Uranus 103729-09-11 00:42 G 39607552.46 39607552.53 39607552.60 0.0141 0.0118

Venus 103729-12-07 10:04 G 39607639.82 39607639.92 39607640.02 0.3653 0.0779

Uranus 103729-12-08 04:04 G 39607640.58 39607640.67 39607640.77 0.0141 0.0098

Uranus 103730-03-06 07:25 G 39607728.70 39607728.81 39607728.92 0.0141 0.0078

Uranus 103730-06-02 11:01 G 39607816.84 39607816.96 39607817.08 0.0141 0.0057

Uranus 103730-08-29 14:23 G 39607904.97 39607905.10 39607905.23 0.0141 0.0037

Jupiter 103730-10-08 22:18 G 39607945.30 39607945.43 39607945.57 0.0513 0.0342

Uranus 103730-11-25 17:45 G 39607993.11 39607993.24 39607993.37 0.0141 0.0016

Mars 103730-11-28 21:35 G 39607996.37 39607996.40 39607996.43 0.1658 0.1592

Uranus 103731-02-21 21:06 G 39608081.25 39608081.38 39608081.51 0.0141 0.0004

Uranus 103731-05-21 00:28 G 39608169.39 39608169.52 39608169.65 0.0141 0.0024

Uranus 103731-08-17 03:49 G 39608257.54 39608257.66 39608257.79 0.0141 0.0045

Earth 103731-10-02 04:33 G 39608303.56 39608303.69 39608303.82 0.2685 0.1616

Moon 103731-10-02 05:30 G 39608303.60 39608303.73 39608303.85 0.2691 0.1667 *

Uranus 103731-11-13 07:11 G 39608345.69 39608345.80 39608345.92 0.0141 0.0065

Saturn 103732-02-09 00:28 G 39608433.42 39608433.52 39608433.62 0.0297 0.0195

Uranus 103732-02-09 10:47 G 39608433.84 39608433.95 39608434.05 0.0141 0.0086

Saturn 103732-05-07 12:28 G 39608521.89 39608522.02 39608522.15 0.0296 0.0024

Uranus 103732-05-07 13:54 G 39608522.00 39608522.08 39608522.17 0.0141 0.0106 *

Uranus 103732-08-03 17:16 G 39608610.17 39608610.22 39608610.28 0.0141 0.0127

Saturn 103732-08-04 00:28 G 39608610.41 39608610.52 39608610.63 0.0295 0.0146

Mars 103732-11-03 00:13 G 39608701.40 39608701.51 39608701.62 0.1636 0.0553

Moon 103735-03-30 10:47 G 39609578.85 39609578.95 39609579.05 0.2654 0.0611

Earth 103735-03-30 11:01 G 39609578.86 39609578.96 39609579.07 0.2648 0.0677 *

Venus 103735-06-23 01:25 G 39609663.46 39609663.56 39609663.66 0.3650 0.0989

Jupiter 103736-06-09 12:42 G 39610015.91 39610016.03 39610016.15 0.0513 0.0171

Jupiter 103736-09-06 16:33 G 39610105.13 39610105.19 39610105.25 0.0511 0.0447

Venus 103741-01-05 16:33 G 39611687.12 39611687.19 39611687.25 0.3647 0.2711

Mars 103741-05-25 10:18 G 39611826.77 39611826.93 39611827.09 0.1905 0.0627

Mars 103742-03-26 11:30 G 39612131.86 39612131.98 39612132.10 0.1641 0.0042

Jupiter 103742-10-26 09:06 G 39612345.76 39612345.88 39612346.00 0.0514 0.0386

Saturn 103747-11-17 07:11 G 39614193.68 39614193.80 39614193.93 0.0265 0.0198

Saturn 103748-02-14 05:01 G 39614282.52 39614282.71 39614282.91 0.0266 0.0014

Jupiter 103748-03-28 17:16 G 39614326.13 39614326.22 39614326.32 0.0514 0.0330

Earth 103748-04-01 04:04 G 39614329.61 39614329.67 39614329.73 0.2646 0.2191

Moon 103748-04-01 04:18 G 39614329.63 39614329.68 39614329.74 0.2652 0.2253 *

Saturn 103748-05-13 02:52 G 39614371.49 39614371.62 39614371.78 0.0267 0.0176

Jupiter 103748-06-25 21:21 G 39614415.29 39614415.39 39614415.49 0.0512 0.0294

Mars 103750-10-15 02:23 G 39615256.46 39615256.60 39615256.74 0.1896 0.1052

Mars 103751-08-16 23:01 G 39615562.35 39615562.46 39615562.57 0.1646 0.0472

Pluto 103752-09-22 17:16 G 39615965.20 39615965.22 39615965.30 0.0060 0.0058

Pluto 103752-12-19 18:42 G 39616053.19 39616053.28 39616053.42 0.0060 0.0048

Pluto 103753-03-17 20:09 G 39616141.21 39616141.34 39616141.50 0.0060 0.0038

Pluto 103753-06-13 21:35 G 39616229.24 39616229.40 39616229.58 0.0060 0.0028

Mars 103753-07-22 01:11 G 39616267.54 39616267.55 39616267.55 0.1626 0.1620

Pluto 103753-09-09 23:01 G 39616317.28 39616317.46 39616317.65 0.0060 0.0018

Pluto 103753-12-07 00:28 G 39616405.33 39616405.52 39616405.71 0.0060 0.0008

Pluto 103754-03-05 01:40 G 39616493.38 39616493.57 39616493.76 0.0060 0.0002

Pluto 103754-06-01 03:06 G 39616581.44 39616581.63 39616581.82 0.0060 0.0012

Jupiter 103754-08-14 05:01 G 39616655.53 39616655.71 39616655.89 0.0514 0.0146

Pluto 103754-08-28 04:18 G 39616669.50 39616669.68 39616669.86 0.0060 0.0021

Pluto 103754-11-24 05:30 G 39616757.57 39616757.73 39616757.90 0.0060 0.0031

Pluto 103755-02-20 06:42 G 39616845.65 39616845.78 39616845.93 0.0060 0.0042

Moon 103755-03-26 05:01 G 39616879.65 39616879.71 39616879.78 0.2651 0.2112

Earth 103755-03-26 05:45 G 39616879.68 39616879.74 39616879.81 0.2650 0.2051 *

Pluto 103755-05-19 07:54 G 39616933.75 39616933.83 39616933.94 0.0060 0.0052

Jupiter 103760-01-15 22:18 G 39618636.39 39618636.43 39618636.47 0.0515 0.0479

Jupiter 103760-04-14 02:23 G 39618725.48 39618725.60 39618725.72 0.0512 0.0148

Mars 103761-01-06 10:18 G 39618992.84 39618992.93 39618993.02 0.1652 0.1000

Saturn 103761-06-28 02:09 G 39619165.53 39619165.59 39619165.66 0.0297 0.0249

Saturn 103761-09-24 14:23 G 39619253.97 39619254.10 39619254.22 0.0296 0.0077

Saturn 103761-12-22 02:09 G 39619342.47 39619342.59 39619342.72 0.0295 0.0094

Saturn 103762-03-20 14:09 G 39619431.03 39619431.09 39619431.15 0.0294 0.0261

Mars 103762-12-12 12:42 G 39619697.94 39619698.03 39619698.11 0.1631 0.1122

Earth 103764-09-29 01:40 G 39620354.44 39620354.57 39620354.71 0.2683 0.1584

Moon 103764-09-29 03:06 G 39620354.49 39620354.63 39620354.78 0.2688 0.1257 *

Jupiter 103766-06-01 23:59 G 39620965.32 39620965.50 39620965.68 0.0514 0.0112

Moon 103768-03-27 22:33 G 39621630.34 39621630.44 39621630.55 0.2655 0.0626

Earth 103768-03-27 22:47 G 39621630.35 39621630.45 39621630.56 0.2649 0.0530 *

Mars 103770-05-29 21:35 G 39622423.36 39622423.40 39622423.44 0.1658 0.1530

Uranus 103770-10-01 20:52 G 39622548.29 39622548.37 39622548.48 0.0137 0.0120

Uranus 103770-12-29 04:47 G 39622636.56 39622636.70 39622636.85 0.0137 0.0093

Uranus 103771-03-27 12:13 G 39622724.85 39622725.01 39622725.19 0.0137 0.0065

Venus 103771-06-21 07:11 G 39622810.64 39622810.80 39622810.96 0.3723 0.0140

Uranus 103771-06-23 20:09 G 39622813.16 39622813.34 39622813.53 0.0137 0.0037

Uranus 103771-09-20 03:49 G 39622901.47 39622901.66 39622901.86 0.0137 0.0010

Uranus 103771-12-17 11:30 G 39622989.79 39622989.98 39622990.18 0.0137 0.0019

Jupiter 103772-02-01 07:40 G 39623035.69 39623035.82 39623035.94 0.0512 0.0011

Uranus 103772-03-14 19:11 G 39623078.12 39623078.30 39623078.49 0.0137 0.0046

Mars 103772-05-03 23:59 G 39623128.40 39623128.50 39623128.61 0.1636 0.0615

Uranus 103772-06-11 02:52 G 39623166.46 39623166.62 39623166.79 0.0137 0.0074

Uranus 103772-09-07 10:18 G 39623254.82 39623254.93 39623255.08 0.0137 0.0102

Uranus 103772-12-04 18:13 G 39623343.21 39623343.26 39623343.33 0.0137 0.0129

Saturn 103777-04-05 05:16 G 39624925.68 39624925.72 39624925.77 0.0265 0.0256

Saturn 103777-07-03 03:06 G 39625014.44 39625014.63 39625014.81 0.0265 0.0073

Saturn 103777-09-30 00:57 G 39625103.37 39625103.54 39625103.71 0.0266 0.0114

Earth 103777-10-02 11:30 G 39625105.91 39625105.98 39625106.06 0.2685 0.2356

Moon 103777-10-02 13:25 G 39625106.02 39625106.06 39625106.10 0.2685 0.2568 *

Jupiter 103778-03-20 20:37 G 39625275.23 39625275.36 39625275.50 0.0513 0.0338

Mars 103780-11-23 11:16 G 39626253.81 39626253.97 39626254.12 0.1905 0.0782

Venus 103780-12-28 16:18 G 39626289.09 39626289.18 39626289.26 0.3655 0.1933

Earth 103781-03-30 15:49 G 39626381.06 39626381.16 39626381.26 0.2647 0.0988

Moon 103781-03-30 16:18 G 39626381.08 39626381.18 39626381.27 0.2653 0.1130 *

Mars 103781-09-24 11:30 G 39626558.86 39626558.98 39626559.10 0.1641 0.0104

Jupiter 103783-11-20 12:13 G 39627345.89 39627346.01 39627346.13 0.0513 0.0152

Jupiter 103784-02-17 16:04 G 39627435.12 39627435.17 39627435.22 0.0510 0.0464

Venus 103786-07-14 07:25 G 39628312.71 39628312.81 39628312.92 0.3652 0.0226

Jupiter 103790-04-07 08:09 G 39629675.72 39629675.84 39629675.95 0.0515 0.0402

Mars 103790-04-15 03:35 G 39629683.50 39629683.65 39629683.80 0.1896 0.0890

Saturn 103791-02-11 14:37 G 39629986.00 39629986.11 39629986.22 0.0297 0.0152

Mars 103791-02-14 22:47 G 39629989.34 39629989.45 39629989.56 0.1646 0.0416

Saturn 103791-05-11 02:37 G 39630074.48 39630074.61 39630074.74 0.0296 0.0020

Saturn 103791-08-07 14:23 G 39630163.01 39630163.10 39630163.21 0.0295 0.0190

Venus 103792-01-27 22:47 G 39630336.36 39630336.45 39630336.54 0.3649 0.1582

Neptune 103792-07-22 15:06 G 39630513.13 39630513.13 39630513.16 0.0088 0.0087

Neptune 103792-10-18 16:33 G 39630601.14 39630601.19 39630601.25 0.0088 0.0080

Neptune 103793-01-14 17:59 G 39630689.18 39630689.25 39630689.32 0.0088 0.0073

Neptune 103793-04-12 18:57 G 39630777.22 39630777.29 39630777.39 0.0088 0.0067

Neptune 103793-07-09 20:09 G 39630865.26 39630865.34 39630865.45 0.0088 0.0060

Neptune 103793-10-05 21:35 G 39630953.30 39630953.40 39630953.51 0.0088 0.0053

Neptune 103794-01-01 23:01 G 39631041.35 39631041.46 39631041.57 0.0088 0.0046

Neptune 103794-03-31 00:13 G 39631129.39 39631129.51 39631129.63 0.0088 0.0039

Earth 103794-04-02 08:52 G 39631131.84 39631131.87 39631131.90 0.2646 0.2504

Moon 103794-04-02 09:21 G 39631131.87 39631131.89 39631131.92 0.2643 0.2545 *

Neptune 103794-06-27 01:25 G 39631217.44 39631217.56 39631217.69 0.0088 0.0033

Neptune 103794-09-23 02:37 G 39631305.49 39631305.61 39631305.74 0.0088 0.0026

Neptune 103794-12-20 04:04 G 39631393.54 39631393.67 39631393.80 0.0088 0.0019

Neptune 103795-03-18 05:16 G 39631481.59 39631481.72 39631481.85 0.0088 0.0012

Neptune 103795-06-14 06:28 G 39631569.64 39631569.77 39631569.91 0.0088 0.0006

Jupiter 103795-09-08 16:47 G 39631656.10 39631656.20 39631656.30 0.0514 0.0308

Neptune 103795-09-10 07:54 G 39631657.69 39631657.83 39631657.96 0.0088 0.0003

Jupiter 103795-12-06 20:52 G 39631745.27 39631745.37 39631745.47 0.0511 0.0313

Neptune 103795-12-07 09:06 G 39631745.75 39631745.88 39631746.01 0.0088 0.0009

Neptune 103796-03-04 10:18 G 39631833.80 39631833.93 39631834.06 0.0088 0.0015

Neptune 103796-05-31 11:30 G 39631921.86 39631921.98 39631922.11 0.0088 0.0022

Neptune 103796-08-27 12:42 G 39632009.91 39632010.03 39632010.16 0.0088 0.0029

Neptune 103796-11-23 13:54 G 39632097.97 39632098.08 39632098.21 0.0088 0.0036

Neptune 103797-02-19 15:06 G 39632186.03 39632186.13 39632186.26 0.0088 0.0043

Neptune 103797-05-18 16:33 G 39632274.08 39632274.19 39632274.30 0.0088 0.0049

Venus 103797-08-12 13:54 G 39632360.04 39632360.08 39632360.12 0.3646 0.3299

Neptune 103797-08-14 17:45 G 39632362.14 39632362.24 39632362.34 0.0088 0.0056

Neptune 103797-11-10 18:57 G 39632450.21 39632450.29 39632450.39 0.0088 0.0063

Neptune 103798-02-06 20:09 G 39632538.27 39632538.34 39632538.43 0.0088 0.0070

Neptune 103798-05-05 21:35 G 39632626.34 39632626.40 39632626.46 0.0088 0.0076

Neptune 103798-08-01 22:47 G 39632714.41 39632714.45 39632714.49 0.0088 0.0083

Mars 103800-07-08 10:18 G 39633419.84 39633419.93 39633420.03 0.1652 0.0934

Moon 103801-03-27 10:18 G 39633681.85 39633681.93 39633682.01 0.2656 0.1760

Earth 103801-03-27 10:33 G 39633681.86 39633681.94 39633682.02 0.2650 0.1737 *

Jupiter 103802-01-25 04:18 G 39633985.51 39633985.68 39633985.86 0.0514 0.0166

Mars 103802-06-13 12:28 G 39634124.94 39634125.02 39634125.10 0.1631 0.1183

Saturn 103806-11-21 00:28 G 39635746.36 39635746.52 39635746.69 0.0265 0.0138

Saturn 103807-02-17 22:33 G 39635835.25 39635835.44 39635835.63 0.0266 0.0048

Saturn 103807-05-17 20:23 G 39635924.27 39635924.35 39635924.44 0.0267 0.0236

Jupiter 103807-06-28 21:21 G 39635966.34 39635966.39 39635966.44 0.0515 0.0469

Jupiter 103807-09-26 01:25 G 39636055.44 39636055.56 39636055.68 0.0512 0.0159

Mars 103809-11-28 21:35 G 39636850.35 39636850.40 39636850.45 0.1658 0.1465

Earth 103810-10-01 08:52 G 39637156.71 39637156.87 39637157.02 0.2684 0.0843

Moon 103810-10-01 10:33 G 39637156.78 39637156.94 39637157.10 0.2681 0.0656 *

Mars 103811-11-03 23:59 G 39637555.40 39637555.50 39637555.61 0.1636 0.0683

Uranus 103813-07-06 04:18 G 39638165.65 39638165.68 39638165.73 0.0141 0.0134

Uranus 103813-10-02 07:40 G 39638253.76 39638253.82 39638253.91 0.0141 0.0114

Jupiter 103813-11-13 00:28 G 39638295.33 39638295.52 39638295.70 0.0513 0.0073

Uranus 103813-12-29 11:16 G 39638341.88 39638341.97 39638342.07 0.0141 0.0093

Uranus 103814-03-27 14:37 G 39638430.00 39638430.11 39638430.23 0.0141 0.0073

Earth 103814-03-30 03:35 G 39638432.54 39638432.65 39638432.75 0.2649 0.0234

Moon 103814-03-30 04:04 G 39638432.56 39638432.67 39638432.78 0.2652 0.0134 *

Uranus 103814-06-23 17:59 G 39638518.13 39638518.25 39638518.38 0.0141 0.0053

Uranus 103814-09-19 21:35 G 39638606.27 39638606.40 39638606.53 0.0141 0.0032

Uranus 103814-12-17 00:57 G 39638694.41 39638694.54 39638694.67 0.0141 0.0012

Uranus 103815-03-15 04:18 G 39638782.55 39638782.68 39638782.81 0.0141 0.0009

Uranus 103815-06-11 07:40 G 39638870.69 39638870.82 39638870.95 0.0141 0.0029

Uranus 103815-09-07 11:01 G 39638958.84 39638958.96 39638959.09 0.0141 0.0050

Uranus 103815-12-04 14:23 G 39639046.99 39639047.10 39639047.22 0.0141 0.0070

Uranus 103816-03-01 17:45 G 39639135.15 39639135.24 39639135.35 0.0141 0.0091

Uranus 103816-05-28 21:21 G 39639223.31 39639223.39 39639223.47 0.0141 0.0111

Uranus 103816-08-25 00:28 G 39639311.48 39639311.52 39639311.58 0.0142 0.0132

Jupiter 103819-07-15 06:28 G 39640365.65 39640365.77 39640365.90 0.0513 0.0019

Mars 103820-05-25 12:13 G 39640680.87 39640681.01 39640681.16 0.1905 0.0942

Saturn 103820-07-01 16:04 G 39640718.09 39640718.17 39640718.27 0.0297 0.0209

Saturn 103820-09-28 04:18 G 39640806.55 39640806.68 39640806.81 0.0296 0.0036

Saturn 103820-12-25 16:18 G 39640895.06 39640895.18 39640895.29 0.0295 0.0134

Mars 103821-03-26 11:30 G 39640985.86 39640985.98 39640986.09 0.1641 0.0173

Jupiter 103825-08-31 19:11 G 39642605.16 39642605.30 39642605.44 0.0513 0.0329

Earth 103827-04-01 20:37 G 39643183.26 39643183.36 39643183.45 0.2647 0.1304

Moon 103827-04-01 21:06 G 39643183.29 39643183.38 39643183.47 0.2644 0.1392 *

Venus 103828-01-27 10:04 G 39643483.80 39643483.92 39643484.05 0.3724 0.2320

Mars 103829-10-15 04:33 G 39644110.53 39644110.69 39644110.84 0.1897 0.0744

Mars 103830-08-16 22:47 G 39644416.34 39644416.45 39644416.57 0.1646 0.0351

Jupiter 103831-05-03 11:45 G 39644675.86 39644675.99 39644676.11 0.0513 0.0133

Jupiter 103831-07-31 15:35 G 39644765.11 39644765.15 39644765.18 0.0511 0.0484

Venus 103832-01-20 22:18 G 39644938.38 39644938.43 39644938.48 0.3657 0.3102

Saturn 103836-04-08 22:33 G 39646478.32 39646478.44 39646478.57 0.0265 0.0197

Saturn 103836-07-06 20:23 G 39646567.16 39646567.35 39646567.54 0.0265 0.0013

Saturn 103836-10-03 18:13 G 39646656.12 39646656.26 39646656.41 0.0266 0.0174

Venus 103837-08-05 13:40 G 39646961.97 39646962.07 39646962.16 0.3654 0.1321

Jupiter 103837-09-18 06:13 G 39647005.65 39647005.76 39647005.88 0.0515 0.0407

Mars 103840-01-07 10:18 G 39647846.83 39647846.93 39647847.02 0.1652 0.0876

Mars 103841-12-12 12:28 G 39648551.95 39648552.02 39648552.09 0.1630 0.1246

Venus 103843-02-19 04:47 G 39648985.60 39648985.70 39648985.81 0.3651 0.0466

Jupiter 103843-02-19 16:18 G 39648986.07 39648986.18 39648986.28 0.0514 0.0288

Jupiter 103843-05-19 20:09 G 39649075.25 39649075.34 39649075.44 0.0511 0.0332

Earth 103847-03-28 15:06 G 39650484.04 39650484.13 39650484.22 0.2650 0.1430

Moon 103847-03-28 15:49 G 39650484.07 39650484.16 39650484.25 0.2652 0.1379 *

Pluto 103847-12-21 21:06 G 39650752.32 39650752.38 39650752.47 0.0084 0.0069

Pluto 103848-03-18 22:33 G 39650840.34 39650840.44 39650840.55 0.0084 0.0050

Pluto 103848-06-14 23:45 G 39650928.37 39650928.49 39650928.62 0.0084 0.0031

Venus 103848-09-03 20:09 G 39651009.26 39651009.34 39651009.42 0.3648 0.2179

Pluto 103848-09-11 00:57 G 39651016.41 39651016.54 39651016.68 0.0084 0.0012

Pluto 103848-12-08 02:09 G 39651104.46 39651104.59 39651104.73 0.0084 0.0008

Pluto 103849-03-06 03:21 G 39651192.52 39651192.64 39651192.77 0.0083 0.0026

Mars 103849-05-29 21:35 G 39651277.34 39651277.40 39651277.45 0.1658 0.1408

Pluto 103849-06-02 04:33 G 39651280.58 39651280.69 39651280.81 0.0083 0.0044

Jupiter 103849-07-07 03:06 G 39651315.46 39651315.63 39651315.81 0.0514 0.0181

Pluto 103849-08-29 05:45 G 39651368.66 39651368.74 39651368.83 0.0083 0.0063

Saturn 103849-11-18 16:33 G 39651450.16 39651450.19 39651450.23 0.0298 0.0284

Pluto 103849-11-25 06:42 G 39651456.77 39651456.78 39651456.82 0.0083 0.0081

Saturn 103850-02-15 04:47 G 39651538.58 39651538.70 39651538.82 0.0297 0.0111

Saturn 103850-05-14 16:47 G 39651627.07 39651627.20 39651627.33 0.0296 0.0061

Saturn 103850-08-11 04:33 G 39651715.62 39651715.69 39651715.77 0.0295 0.0230

Mars 103851-05-04 23:59 G 39651982.40 39651982.50 39651982.60 0.1635 0.0741

Uranus 103854-10-23 04:04 G 39653249.58 39653249.67 39653249.79 0.0137 0.0113

Jupiter 103854-12-08 20:52 G 39653296.31 39653296.37 39653296.43 0.0514 0.0446

Uranus 103855-01-19 11:59 G 39653337.85 39653338.00 39653338.15 0.0137 0.0085

Jupiter 103855-03-08 00:57 G 39653385.42 39653385.54 39653385.66 0.0512 0.0180

Uranus 103855-04-17 19:25 G 39653426.15 39653426.31 39653426.50 0.0137 0.0058

Uranus 103855-07-15 03:21 G 39653514.45 39653514.64 39653514.83 0.0137 0.0030

Uranus 103855-10-11 11:01 G 39653602.77 39653602.96 39653603.16 0.0137 0.0003

Uranus 103856-01-07 18:42 G 39653691.09 39653691.28 39653691.47 0.0137 0.0025

Uranus 103856-04-05 02:23 G 39653779.42 39653779.60 39653779.78 0.0137 0.0053

Uranus 103856-07-02 09:49 G 39653867.77 39653867.91 39653868.08 0.0137 0.0081

Uranus 103856-09-28 17:45 G 39653956.13 39653956.24 39653956.36 0.0137 0.0108

Moon 103856-10-01 15:21 G 39653958.97 39653959.14 39653959.31 0.2678 0.0248

Earth 103856-10-01 15:49 G 39653959.00 39653959.16 39653959.32 0.2684 0.0092 *

Uranus 103856-12-26 01:11 G 39654044.55 39654044.55 39654044.59 0.0137 0.0136

Mars 103859-11-24 12:57 G 39655107.91 39655108.04 39655108.18 0.1905 0.1084

Earth 103860-03-30 08:09 G 39655234.74 39655234.84 39655234.95 0.2649 0.0116

Moon 103860-03-30 08:52 G 39655234.76 39655234.87 39655234.97 0.2645 0.0273 *

Mars 103860-09-24 11:30 G 39655412.86 39655412.98 39655413.09 0.1641 0.0240

Jupiter 103861-04-24 23:45 G 39655625.30 39655625.49 39655625.67 0.0513 0.0053

Saturn 103865-08-26 19:54 G 39657210.32 39657210.33 39657210.37 0.0265 0.0262

Saturn 103865-11-23 17:45 G 39657299.06 39657299.24 39657299.43 0.0265 0.0079

Saturn 103866-02-20 15:49 G 39657387.98 39657388.16 39657388.33 0.0266 0.0108

Jupiter 103866-12-25 05:30 G 39657695.61 39657695.73 39657695.86 0.0513 0.0029

Mars 103869-04-15 05:16 G 39658537.56 39658537.72 39658537.88 0.1897 0.0607

Mars 103870-02-14 22:47 G 39658843.34 39658843.45 39658843.57 0.1646 0.0286

Jupiter 103873-02-10 19:40 G 39659935.17 39659935.32 39659935.48 0.0513 0.0288

Moon 103873-04-02 01:11 G 39659985.46 39659985.55 39659985.63 0.2640 0.1524

Earth 103873-04-02 01:11 G 39659985.47 39659985.55 39659985.64 0.2647 0.1620 *

Neptune 103876-09-23 20:52 G 39661256.31 39661256.37 39661256.45 0.0090 0.0083

Neptune 103876-12-21 00:57 G 39661344.42 39661344.54 39661344.65 0.0090 0.0072

Neptune 103877-03-19 04:18 G 39661432.55 39661432.68 39661432.84 0.0090 0.0062

Neptune 103877-06-15 08:23 G 39661520.69 39661520.85 39661521.01 0.0090 0.0051

Neptune 103877-09-11 11:59 G 39661608.84 39661609.00 39661609.19 0.0090 0.0040

Neptune 103877-12-08 15:49 G 39661696.98 39661697.16 39661697.35 0.0090 0.0030

Neptune 103878-03-06 19:40 G 39661785.13 39661785.32 39661785.52 0.0090 0.0019

Neptune 103878-06-02 23:30 G 39661873.29 39661873.48 39661873.68 0.0090 0.0008

Neptune 103878-08-30 03:21 G 39661961.44 39661961.64 39661961.84 0.0090 0.0003

Jupiter 103878-10-13 10:33 G 39662005.82 39662005.94 39662006.07 0.0513 0.0125

Neptune 103878-11-26 06:57 G 39662049.60 39662049.79 39662049.99 0.0090 0.0014

Jupiter 103879-01-10 14:23 G 39662095.08 39662095.10 39662095.14 0.0511 0.0493

Venus 103879-02-17 00:57 G 39662132.43 39662132.54 39662132.66 0.3721 0.2488

Neptune 103879-02-22 11:01 G 39662137.77 39662137.96 39662138.15 0.0090 0.0024

Neptune 103879-05-21 14:37 G 39662225.93 39662226.11 39662226.30 0.0090 0.0035

Saturn 103879-07-05 06:13 G 39662270.66 39662270.76 39662270.87 0.0297 0.0168

Mars 103879-07-08 10:04 G 39662273.82 39662273.92 39662274.02 0.1652 0.0814

Neptune 103879-08-17 18:13 G 39662314.10 39662314.26 39662314.44 0.0090 0.0046

Saturn 103879-10-01 18:28 G 39662359.14 39662359.27 39662359.40 0.0296 0.0007

Neptune 103879-11-13 22:18 G 39662402.28 39662402.43 39662402.58 0.0090 0.0056

Saturn 103879-12-29 06:13 G 39662447.66 39662447.76 39662447.87 0.0295 0.0175

Neptune 103880-02-10 01:54 G 39662490.46 39662490.58 39662490.72 0.0090 0.0067

Earth 103880-03-26 02:52 G 39662535.62 39662535.62 39662535.63 0.2651 0.2638

Moon 103880-03-26 03:35 G 39662535.62 39662535.65 39662535.68 0.2653 0.2519 *

Neptune 103880-05-08 05:30 G 39662578.65 39662578.73 39662578.85 0.0090 0.0078

Neptune 103880-08-04 09:06 G 39662666.88 39662666.88 39662666.94 0.0090 0.0089

Mars 103881-06-12 12:28 G 39662978.95 39662979.02 39662979.09 0.1630 0.1313

Jupiter 103885-02-28 04:47 G 39664335.59 39664335.70 39664335.81 0.0515 0.0415

Venus 103888-08-26 19:40 G 39665611.25 39665611.32 39665611.40 0.3656 0.2485

Mars 103888-11-27 21:21 G 39665704.33 39665704.39 39665704.46 0.1658 0.1345

Jupiter 103890-08-01 15:49 G 39666316.05 39666316.16 39666316.27 0.0514 0.0270

Jupiter 103890-10-29 19:40 G 39666405.23 39666405.32 39666405.41 0.0511 0.0351

Mars 103890-11-02 23:59 G 39666409.40 39666409.50 39666409.60 0.1635 0.0806

Earth 103893-03-28 19:54 G 39667286.23 39667286.33 39667286.43 0.2650 0.1111

Moon 103893-03-28 20:23 G 39667286.25 39667286.35 39667286.45 0.2644 0.1033 *

Venus 103894-03-12 11:01 G 39667634.86 39667634.96 39667635.06 0.3653 0.0708

Saturn 103895-04-12 16:18 G 39668031.02 39668031.18 39668031.35 0.0265 0.0134

Saturn 103895-07-10 14:09 G 39668119.90 39668120.09 39668120.28 0.0265 0.0050

Saturn 103895-10-07 11:45 G 39668208.92 39668208.99 39668209.09 0.0266 0.0239

Jupiter 103896-12-17 01:25 G 39668645.38 39668645.56 39668645.73 0.0514 0.0184

Uranus 103897-07-26 11:16 G 39668866.93 39668866.97 39668867.03 0.0141 0.0131

Uranus 103897-10-22 14:52 G 39668955.04 39668955.12 39668955.20 0.0141 0.0110

Uranus 103898-01-18 18:13 G 39669043.16 39669043.26 39669043.37 0.0141 0.0090

Uranus 103898-04-16 21:49 G 39669131.29 39669131.41 39669131.52 0.0141 0.0069

Uranus 103898-07-14 01:11 G 39669219.43 39669219.55 39669219.67 0.0141 0.0049

Uranus 103898-10-10 04:33 G 39669307.56 39669307.69 39669307.82 0.0141 0.0028

Uranus 103899-01-06 07:54 G 39669395.70 39669395.83 39669395.96 0.0141 0.0008

Uranus 103899-04-04 11:16 G 39669483.84 39669483.97 39669484.10 0.0141 0.0013

Mars 103899-05-25 13:54 G 39669534.96 39669535.08 39669535.21 0.1906 0.1234

Uranus 103899-07-01 14:37 G 39669571.99 39669572.11 39669572.24 0.0141 0.0033

Venus 103899-09-26 02:23 G 39669658.50 39669658.60 39669658.69 0.3650 0.1056

Uranus 103899-09-27 18:13 G 39669660.14 39669660.26 39669660.38 0.0141 0.0054

Uranus 103899-12-24 21:21 G 39669748.29 39669748.39 39669748.51 0.0141 0.0074

Uranus 103900-03-23 00:57 G 39669836.44 39669836.54 39669836.64 0.0141 0.0094

Mars 103900-03-26 11:16 G 39669839.86 39669839.97 39669840.09 0.1641 0.0299

Uranus 103900-06-19 04:18 G 39669924.61 39669924.68 39669924.76 0.0142 0.0115

Uranus 103900-09-15 07:40 G 39670012.79 39670012.82 39670012.86 0.0142 0.0135

Jupiter 103902-05-21 20:23 G 39670626.28 39670626.35 39670626.42 0.0514 0.0427

Jupiter 103902-08-19 00:28 G 39670715.40 39670715.52 39670715.64 0.0512 0.0198

Moon 103902-10-03 20:52 G 39670761.21 39670761.37 39670761.53 0.2684 0.0470

Earth 103902-10-03 23:01 G 39670761.30 39670761.46 39670761.61 0.2684 0.0676 *

Venus 103905-04-11 17:30 G 39671682.16 39671682.23 39671682.29 0.3648 0.2772

Moon 103906-04-01 12:42 G 39672036.92 39672037.03 39672037.13 0.2642 0.0367

Earth 103906-04-01 12:57 G 39672036.93 39672037.04 39672037.15 0.2648 0.0412 *

Jupiter 103908-10-05 22:18 G 39672955.24 39672955.43 39672955.61 0.0514 0.0041

Mars 103908-10-15 06:28 G 39672964.60 39672964.77 39672964.93 0.1897 0.0441

Saturn 103908-11-22 06:42 G 39673002.71 39673002.78 39673002.86 0.0297 0.0242

Saturn 103909-02-18 18:57 G 39673091.16 39673091.29 39673091.41 0.0297 0.0069

Saturn 103909-05-18 06:42 G 39673179.67 39673179.78 39673179.91 0.0296 0.0103

Saturn 103909-08-14 18:42 G 39673268.23 39673268.28 39673268.33 0.0295 0.0271

Mars 103909-08-16 22:47 G 39673270.33 39673270.45 39673270.56 0.1646 0.0225

Jupiter 103914-06-07 05:01 G 39675025.59 39675025.71 39675025.84 0.0512 0.0047

Mars 103919-01-07 10:04 G 39676700.82 39676700.92 39676701.03 0.1652 0.0749

Moon 103919-04-04 05:16 G 39676787.65 39676787.72 39676787.80 0.2646 0.1841

Earth 103919-04-04 05:59 G 39676787.68 39676787.75 39676787.82 0.2647 0.1931 *

Jupiter 103920-07-24 18:42 G 39677265.13 39677265.28 39677265.44 0.0513 0.0271

Mars 103920-12-12 12:28 G 39677405.96 39677406.02 39677406.08 0.1630 0.1376

Saturn 103924-08-30 13:54 G 39678762.96 39678763.08 39678763.21 0.0265 0.0199

Saturn 103924-11-27 11:45 G 39678851.79 39678851.99 39678852.18 0.0266 0.0016

Saturn 103925-02-24 09:35 G 39678940.75 39678940.90 39678941.04 0.0266 0.0172

Jupiter 103926-03-26 09:35 G 39679335.78 39679335.90 39679336.03 0.0513 0.0115

Earth 103926-03-28 07:40 G 39679337.77 39679337.82 39679337.87 0.2651 0.2324

Moon 103926-03-28 07:54 G 39679337.78 39679337.83 39679337.88 0.2644 0.2327 *

Jupiter 103926-06-23 13:25 G 39679425.04 39679425.06 39679425.08 0.0511 0.0501

Mars 103928-05-29 21:21 G 39680131.32 39680131.39 39680131.47 0.1657 0.1280

Mars 103930-05-04 23:59 G 39680836.40 39680836.50 39680836.60 0.1635 0.0873

Jupiter 103932-05-12 15:06 G 39681575.10 39681575.13 39681575.16 0.0512 0.0504

Jupiter 103932-08-11 05:16 G 39681665.63 39681665.72 39681665.81 0.0515 0.0454

Venus 103935-09-25 03:49 G 39682805.51 39682805.66 39682805.82 0.3722 0.0346

Earth 103935-10-01 20:09 G 39682812.29 39682812.34 39682812.40 0.2683 0.2510

Jupiter 103938-01-12 14:37 G 39683646.00 39683646.11 39683646.22 0.0514 0.0263

Saturn 103938-04-11 08:23 G 39683734.85 39683734.85 39683734.86 0.0297 0.0297

Jupiter 103938-04-11 18:28 G 39683735.19 39683735.27 39683735.37 0.0511 0.0359

Saturn 103938-07-08 20:37 G 39683823.24 39683823.36 39683823.48 0.0296 0.0123

Uranus 103938-08-17 03:35 G 39683862.63 39683862.65 39683862.72 0.0137 0.0134

Saturn 103938-10-05 08:37 G 39683911.73 39683911.86 39683911.99 0.0296 0.0049

Uranus 103938-11-13 11:30 G 39683950.87 39683950.98 39683951.11 0.0137 0.0105

Mars 103938-11-24 15:06 G 39683962.02 39683962.13 39683962.25 0.1906 0.1404

Saturn 103939-01-01 20:37 G 39684000.27 39684000.36 39684000.44 0.0295 0.0218

Uranus 103939-02-09 19:11 G 39684039.15 39684039.30 39684039.47 0.0137 0.0078

Moon 103939-03-31 00:13 G 39684088.41 39684088.51 39684088.62 0.2644 0.0804

Earth 103939-03-31 00:42 G 39684088.43 39684088.53 39684088.63 0.2649 0.0801 *

Uranus 103939-05-09 02:52 G 39684127.45 39684127.62 39684127.81 0.0137 0.0050

Uranus 103939-08-05 10:33 G 39684215.76 39684215.94 39684216.14 0.0137 0.0023

Venus 103939-09-19 01:54 G 39684260.58 39684260.58 39684260.58 0.3658 0.3656

Mars 103939-09-25 11:16 G 39684266.86 39684266.97 39684267.08 0.1640 0.0360

Uranus 103939-11-01 18:28 G 39684304.07 39684304.27 39684304.46 0.0137 0.0005

Uranus 103940-01-29 01:54 G 39684392.40 39684392.58 39684392.78 0.0137 0.0033

Uranus 103940-04-26 09:35 G 39684480.73 39684480.90 39684481.08 0.0137 0.0061

Uranus 103940-07-23 17:30 G 39684569.08 39684569.23 39684569.38 0.0137 0.0088

Uranus 103940-10-20 00:57 G 39684657.45 39684657.54 39684657.65 0.0137 0.0116

Jupiter 103944-05-29 23:45 G 39685975.32 39685975.49 39685975.66 0.0514 0.0191

Venus 103945-04-03 17:16 G 39686284.13 39686284.22 39686284.30 0.3655 0.1873

Mars 103948-04-15 07:11 G 39687391.64 39687391.80 39687391.97 0.1897 0.0303

Moon 103948-10-04 05:01 G 39687563.58 39687563.71 39687563.85 0.2690 0.1356

Earth 103948-10-04 05:59 G 39687563.61 39687563.75 39687563.88 0.2684 0.1415 *

Mars 103949-02-14 22:47 G 39687697.33 39687697.45 39687697.56 0.1646 0.0167

Jupiter 103949-10-31 19:40 G 39687956.24 39687956.32 39687956.39 0.0515 0.0411

Jupiter 103950-01-28 23:45 G 39688045.37 39688045.49 39688045.60 0.0512 0.0215

Venus 103950-10-18 08:23 G 39688307.75 39688307.85 39688307.95 0.3652 0.0123

Moon 103952-04-01 17:01 G 39688839.11 39688839.21 39688839.32 0.2648 0.0549

Earth 103952-04-01 17:45 G 39688839.13 39688839.24 39688839.34 0.2648 0.0729 *

Saturn 103954-01-17 12:42 G 39689494.98 39689495.03 39689495.09 0.0264 0.0252

Saturn 103954-04-16 10:33 G 39689583.75 39689583.94 39689584.12 0.0265 0.0068

Saturn 103954-07-14 08:09 G 39689672.68 39689672.84 39689673.02 0.0266 0.0118

Jupiter 103956-03-17 20:09 G 39690285.16 39690285.34 39690285.53 0.0514 0.0041

Venus 103956-05-02 23:45 G 39690331.40 39690331.49 39690331.58 0.3650 0.1648

Neptune 103957-04-20 14:52 G 39690684.10 39690684.12 39690684.17 0.0088 0.0084

Neptune 103957-07-17 16:18 G 39690772.13 39690772.18 39690772.25 0.0088 0.0077

Neptune 103957-10-13 17:45 G 39690860.16 39690860.24 39690860.32 0.0088 0.0070

Neptune 103958-01-09 18:57 G 39690948.21 39690948.29 39690948.39 0.0088 0.0063

Neptune 103958-04-07 20:09 G 39691036.25 39691036.34 39691036.45 0.0088 0.0057

Neptune 103958-07-04 21:21 G 39691124.29 39691124.39 39691124.51 0.0088 0.0050

Mars 103958-07-08 10:04 G 39691127.82 39691127.92 39691128.03 0.1651 0.0685

Neptune 103958-09-30 22:47 G 39691212.34 39691212.45 39691212.57 0.0088 0.0043

Neptune 103958-12-27 23:59 G 39691300.39 39691300.50 39691300.63 0.0088 0.0036

Neptune 103959-03-26 01:25 G 39691388.43 39691388.56 39691388.68 0.0088 0.0029

Neptune 103959-06-22 02:37 G 39691476.48 39691476.61 39691476.74 0.0088 0.0022

Neptune 103959-09-18 03:49 G 39691564.53 39691564.66 39691564.79 0.0088 0.0016

Neptune 103959-12-15 05:01 G 39691652.58 39691652.71 39691652.85 0.0088 0.0009

Neptune 103960-03-12 06:28 G 39691740.64 39691740.77 39691740.90 0.0088 0.0003

Neptune 103960-06-08 07:40 G 39691828.69 39691828.82 39691828.95 0.0088 0.0005

Mars 103960-06-12 12:28 G 39691832.96 39691833.02 39691833.07 0.1630 0.1441

Neptune 103960-09-04 08:52 G 39691916.74 39691916.87 39691917.00 0.0088 0.0012

Neptune 103960-12-01 10:04 G 39692004.79 39692004.92 39692005.05 0.0088 0.0019

Neptune 103961-02-27 11:16 G 39692092.85 39692092.97 39692093.10 0.0088 0.0025

Neptune 103961-05-26 12:42 G 39692180.91 39692181.03 39692181.15 0.0088 0.0032

Neptune 103961-08-22 13:40 G 39692268.96 39692269.07 39692269.20 0.0088 0.0039

Venus 103961-11-16 14:52 G 39692355.08 39692355.12 39692355.15 0.3647 0.3357

Jupiter 103961-11-17 04:18 G 39692355.56 39692355.68 39692355.81 0.0512 0.0062

Neptune 103961-11-18 14:52 G 39692357.02 39692357.12 39692357.24 0.0088 0.0046

Neptune 103962-02-14 16:04 G 39692445.08 39692445.17 39692445.29 0.0088 0.0053

Neptune 103962-05-13 17:30 G 39692533.14 39692533.23 39692533.33 0.0088 0.0059

Neptune 103962-08-09 18:42 G 39692621.20 39692621.28 39692621.38 0.0088 0.0066

Neptune 103962-11-05 19:54 G 39692709.27 39692709.33 39692709.41 0.0088 0.0073

Neptune 103963-02-01 21:21 G 39692797.34 39692797.39 39692797.45 0.0088 0.0079

Neptune 103963-04-30 22:33 G 39692885.42 39692885.44 39692885.47 0.0088 0.0086

Moon 103965-04-04 10:33 G 39693589.89 39693589.94 39693589.99 0.2653 0.2286

Earth 103965-04-04 10:47 G 39693589.89 39693589.95 39693590.00 0.2646 0.2244 *

Saturn 103967-11-25 21:21 G 39694555.29 39694555.39 39694555.49 0.0297 0.0193

Mars 103967-11-28 21:21 G 39694558.31 39694558.39 39694558.47 0.1658 0.1218

Jupiter 103968-01-04 17:01 G 39694595.06 39694595.21 39694595.38 0.0513 0.0264

Saturn 103968-02-22 09:21 G 39694643.77 39694643.89 39694644.02 0.0296 0.0023

Saturn 103968-05-20 21:21 G 39694732.28 39694732.39 39694732.50 0.0296 0.0150

Mars 103969-11-02 23:45 G 39695263.40 39695263.49 39695263.59 0.1635 0.0937

Moon 103972-03-28 11:59 G 39696139.93 39696140.00 39696140.06 0.2645 0.2085

Earth 103972-03-28 12:13 G 39696139.95 39696140.01 39696140.08 0.2651 0.2014 *

Jupiter 103973-09-05 09:06 G 39696665.75 39696665.88 39696666.00 0.0513 0.0096

Mars 103978-05-25 15:49 G 39698389.06 39698389.16 39698389.26 0.1906 0.1533

Mars 103979-03-26 11:16 G 39698693.86 39698693.97 39698694.08 0.1640 0.0424

Jupiter 103979-10-23 13:40 G 39698905.03 39698905.07 39698905.13 0.0512 0.0492

Jupiter 103980-01-22 03:49 G 39698995.60 39698995.66 39698995.75 0.0515 0.0468

Uranus 103981-08-16 18:28 G 39699568.22 39699568.27 39699568.32 0.0141 0.0127

Moon 103981-10-02 02:52 G 39699614.50 39699614.62 39699614.74 0.2690 0.1727

Earth 103981-10-02 03:06 G 39699614.51 39699614.63 39699614.75 0.2683 0.1779 *

Uranus 103981-11-12 21:49 G 39699656.33 39699656.41 39699656.50 0.0141 0.0107

Uranus 103982-02-09 01:11 G 39699744.45 39699744.55 39699744.66 0.0141 0.0087

Uranus 103982-05-08 04:33 G 39699832.58 39699832.69 39699832.81 0.0141 0.0066

Uranus 103982-08-04 07:54 G 39699920.71 39699920.83 39699920.96 0.0141 0.0046

Uranus 103982-10-31 11:30 G 39700008.85 39700008.98 39700009.11 0.0141 0.0025

Uranus 103983-01-27 14:52 G 39700096.99 39700097.12 39700097.25 0.0141 0.0005

Uranus 103983-04-25 18:13 G 39700185.13 39700185.26 39700185.39 0.0141 0.0016

Uranus 103983-07-22 21:35 G 39700273.28 39700273.40 39700273.53 0.0141 0.0037

Saturn 103983-09-03 08:23 G 39700315.68 39700315.85 39700316.02 0.0265 0.0130

Uranus 103983-10-19 00:57 G 39700361.43 39700361.54 39700361.67 0.0141 0.0057

Saturn 103983-12-01 06:13 G 39700404.57 39700404.76 39700404.95 0.0266 0.0055

Uranus 103984-01-15 04:18 G 39700449.58 39700449.68 39700449.80 0.0141 0.0078

Saturn 103984-02-28 04:04 G 39700493.60 39700493.67 39700493.75 0.0267 0.0243

Uranus 103984-04-12 07:54 G 39700537.74 39700537.83 39700537.92 0.0141 0.0098

Uranus 103984-07-09 11:01 G 39700625.90 39700625.96 39700626.04 0.0142 0.0119

Uranus 103984-10-05 14:37 G 39700714.09 39700714.11 39700714.14 0.0142 0.0139

Moon 103985-03-31 04:47 G 39700890.59 39700890.70 39700890.80 0.2652 0.0592

Earth 103985-03-31 05:16 G 39700890.62 39700890.72 39700890.83 0.2649 0.0492 *

Jupiter 103985-06-24 13:25 G 39700975.95 39700976.06 39700976.17 0.0514 0.0256

Jupiter 103985-09-21 17:30 G 39701065.14 39701065.23 39701065.32 0.0511 0.0364

Mars 103987-10-15 08:09 G 39701818.67 39701818.84 39701819.01 0.1898 0.0152

Mars 103988-08-15 22:47 G 39702124.33 39702124.45 39702124.56 0.1646 0.0095

Jupiter 103991-11-09 23:59 G 39703305.33 39703305.50 39703305.66 0.0514 0.0225

Venus 103992-05-01 06:57 G 39703478.65 39703478.79 39703478.93 0.3723 0.1845

Earth 103994-10-05 12:57 G 39704365.94 39704366.04 39704366.13 0.2685 0.2162

Moon 103994-10-05 14:37 G 39704366.03 39704366.11 39704366.19 0.2688 0.2316 *

Venus 103996-04-24 23:16 G 39704933.41 39704933.47 39704933.52 0.3657 0.3034

Mars 103997-03-06 00:42 G 39705248.49 39705248.53 39705248.58 0.1889 0.1800

Jupiter 103997-04-12 18:13 G 39705286.19 39705286.26 39705286.34 0.0515 0.0408

Saturn 103997-04-13 23:16 G 39705287.40 39705287.47 39705287.55 0.0297 0.0245

Jupiter 103997-07-10 22:33 G 39705375.32 39705375.44 39705375.55 0.0512 0.0219

Saturn 103997-07-11 11:30 G 39705375.85 39705375.98 39705376.10 0.0296 0.0072

Saturn 103997-10-07 23:30 G 39705464.36 39705464.48 39705464.60 0.0295 0.0099

Saturn 103998-01-04 11:16 G 39705552.92 39705552.97 39705553.03 0.0295 0.0268

Mars 103998-01-06 10:04 G 39705554.81 39705554.92 39705555.03 0.1651 0.0622

Moon 103998-04-02 22:18 G 39705641.33 39705641.43 39705641.53 0.2654 0.1045

Earth 103998-04-02 22:18 G 39705641.34 39705641.43 39705641.53 0.2648 0.1044 *

Mars 103999-12-12 12:28 G 39706259.97 39706260.02 39706260.06 0.1630 0.1509

105TH MILLENNIUM CE

This is a list of transits of Mercury in the 105th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Pluto	**104001-04-14 23:01**	**G**	**39706749.39**	**39706749.46**	**39706749.57**	**0.0060**	**0.0053**	
Pluto	**104001-07-12 00:28**	**G**	**39706837.40**	**39706837.52**	**39706837.67**	**0.0060**	**0.0043**	
Pluto	**104001-10-08 01:54**	**G**	**39706925.43**	**39706925.58**	**39706925.75**	**0.0060**	**0.0033**	
Venus	**104001-11-08 14:37**	**G**	**39706957.01**	**39706957.11**	**39706957.20**	**0.3655**	**0.1261**	
Pluto	**104002-01-04 03:21**	**G**	**39707013.47**	**39707013.64**	**39707013.82**	**0.0060**	**0.0023**	
Pluto	**104002-04-02 04:47**	**G**	**39707101.51**	**39707101.70**	**39707101.89**	**0.0060**	**0.0013**	
Pluto	**104002-06-29 05:59**	**G**	**39707189.56**	**39707189.75**	**39707189.95**	**0.0060**	**0.0004**	
Pluto	**104002-09-25 07:25**	**G**	**39707277.62**	**39707277.81**	**39707278.00**	**0.0060**	**0.0006**	
Pluto	**104002-12-22 08:37**	**G**	**39707365.68**	**39707365.86**	**39707366.05**	**0.0060**	**0.0016**	
Pluto	**104003-03-20 09:49**	**G**	**39707453.74**	**39707453.91**	**39707454.09**	**0.0060**	**0.0026**	
Pluto	**104003-06-16 11:01**	**G**	**39707541.82**	**39707541.96**	**39707542.13**	**0.0060**	**0.0037**	
Jupiter	**104003-08-28 18:28**	**G**	**39707615.08**	**39707615.27**	**39707615.45**	**0.0513**	**0.0037**	
Pluto	**104003-09-12 12:13**	**G**	**39707629.91**	**39707630.01**	**39707630.15**	**0.0060**	**0.0047**	
Pluto	**104003-12-09 13:25**	**G**	**39707718.02**	**39707718.06**	**39707718.15**	**0.0060**	**0.0057**	
Venus	**104007-05-25 05:45**	**G**	**39708980.64**	**39708980.74**	**39708980.84**	**0.3652**	**0.0506**	
Mars	**104007-05-29 21:21**	**G**	**39708985.31**	**39708985.39**	**39708985.47**	**0.1657**	**0.1155**	
Jupiter	**104009-04-29 03:35**	**G**	**39709685.52**	**39709685.65**	**39709685.78**	**0.0513**	**0.0073**	
Mars	**104009-05-03 23:45**	**G**	**39709690.40**	**39709690.49**	**39709690.58**	**0.1635**	**0.0999**	
Earth	**104011-04-05 15:21**	**G**	**39710392.12**	**39710392.14**	**39710392.17**	**0.2646**	**0.2554**	
Moon	**104011-04-05 16:04**	**G**	**39710392.15**	**39710392.17**	**39710392.18**	**0.2651**	**0.2625**	*

Venus 104012-12-07 20:52 G 39711004.29 39711004.37 39711004.45 0.3649 0.2231

Saturn 104013-01-20 07:40 G 39711047.69 39711047.82 39711047.97 0.0265 0.0179

Saturn 104013-04-19 05:30 G 39711136.54 39711136.73 39711136.92 0.0265 0.0005

Saturn 104013-07-17 03:21 G 39711225.51 39711225.64 39711225.78 0.0266 0.0192

Jupiter 104015-06-16 14:52 G 39711924.96 39711925.12 39711925.28 0.0513 0.0268

Mars 104017-11-23 16:47 G 39712816.13 39712816.20 39712816.28 0.1906 0.1698

Moon 104018-03-29 16:33 G 39712942.11 39712942.19 39712942.27 0.2654 0.1734

Earth 104018-03-29 17:01 G 39712942.13 39712942.21 39712942.29 0.2650 0.1700 *

Mars 104018-09-24 11:16 G 39713120.86 39713120.97 39713121.08 0.1640 0.0489

Jupiter 104021-02-15 08:09 G 39713995.72 39713995.84 39713995.97 0.0513 0.0084

Uranus 104022-09-06 10:47 G 39714563.89 39714563.95 39714564.03 0.0137 0.0127

Uranus 104022-12-03 18:28 G 39714652.15 39714652.27 39714652.41 0.0137 0.0099

Uranus 104023-03-02 02:09 G 39714740.43 39714740.59 39714740.76 0.0137 0.0072

Uranus 104023-05-29 09:49 G 39714828.73 39714828.91 39714829.10 0.0137 0.0044

Uranus 104023-08-25 17:45 G 39714917.05 39714917.24 39714917.43 0.0137 0.0016

Uranus 104023-11-22 01:25 G 39715005.36 39715005.56 39715005.75 0.0137 0.0011

Uranus 104024-02-18 09:06 G 39715093.69 39715093.88 39715094.07 0.0137 0.0039

Uranus 104024-05-16 16:33 G 39715182.03 39715182.19 39715182.37 0.0137 0.0067

Uranus 104024-08-13 00:13 G 39715270.38 39715270.51 39715270.66 0.0137 0.0094

Uranus 104024-11-09 07:54 G 39715358.76 39715358.83 39715358.93 0.0137 0.0122

Saturn 104026-11-28 12:42 G 39716107.91 39716108.03 39716108.14 0.0297 0.0137

Saturn 104027-02-25 00:42 G 39716196.40 39716196.53 39716196.66 0.0296 0.0035

Jupiter 104027-04-04 11:45 G 39716234.94 39716234.99 39716235.04 0.0512 0.0490

Mars 104027-04-15 09:21 G 39716245.72 39716245.89 39716246.06 0.1898 0.0033

Saturn 104027-05-24 12:28 G 39716284.93 39716285.02 39716285.12 0.0295 0.0205

Jupiter 104027-07-04 01:54 G 39716325.51 39716325.58 39716325.66 0.0515 0.0469

Earth 104027-10-03 10:04 G 39716416.77 39716416.92 39716417.07 0.2683 0.1036

Moon 104027-10-03 11:45 G 39716416.84 39716416.99 39716417.15 0.2685 0.0695 *

Mars 104028-02-14 22:33 G 39716551.33 39716551.44 39716551.56 0.1646 0.0057

Earth 104031-04-01 10:04 G 39717692.81 39717692.92 39717693.03 0.2649 0.0174

Moon 104031-04-01 10:04 G 39717692.82 39717692.92 39717693.03 0.2655 0.0232 *

Jupiter 104032-12-04 12:42 G 39718305.92 39718306.03 39718306.14 0.0514 0.0241

Jupiter 104033-03-03 16:33 G 39718395.11 39718395.19 39718395.28 0.0511 0.0379

Mars 104036-09-04 01:11 G 39719675.48 39719675.55 39719675.63 0.1889 0.1682

Mars 104037-07-07 10:04 G 39719981.81 39719981.92 39719982.03 0.1651 0.0555

Jupiter 104039-04-21 22:18 G 39720635.27 39720635.43 39720635.60 0.0514 0.0233

Mars 104039-06-12 12:13 G 39720686.99 39720687.01 39720687.04 0.1630 0.1571

Neptune 104041-03-25 15:21 G 39721339.14 39721339.14 39721339.20 0.0089 0.0089

Neptune 104041-06-21 19:25 G 39721427.23 39721427.31 39721427.42 0.0089 0.0078

Neptune 104041-09-17 23:30 G 39721515.35 39721515.48 39721515.61 0.0090 0.0067

Neptune 104041-12-15 02:52 G 39721603.49 39721603.62 39721603.79 0.0090 0.0057

Neptune 104042-03-13 06:57 G 39721691.63 39721691.79 39721691.96 0.0090 0.0046

Saturn 104042-06-09 05:59 G 39721779.67 39721779.75 39721779.84 0.0265 0.0238

Neptune 104042-06-09 10:33 G 39721779.77 39721779.94 39721780.13 0.0090 0.0036 *

Neptune 104042-09-05 14:23 G 39721867.92 39721868.10 39721868.30 0.0090 0.0025

Saturn 104042-09-06 03:49 G 39721868.47 39721868.66 39721868.85 0.0265 0.0054

Neptune 104042-12-02 18:28 G 39721956.08 39721956.27 39721956.46 0.0090 0.0014

Saturn 104042-12-04 01:40 G 39721957.40 39721957.57 39721957.74 0.0266 0.0132

Neptune 104043-02-28 22:18 G 39722044.23 39722044.43 39722044.62 0.0090 0.0003

Venus 104043-05-22 21:49 G 39722127.31 39722127.41 39722127.51 0.3720 0.2910

Neptune 104043-05-28 02:09 G 39722132.39 39722132.59 39722132.78 0.0090 0.0008

Neptune 104043-08-24 05:45 G 39722220.55 39722220.74 39722220.94 0.0090 0.0019

Neptune 104043-11-20 09:21 G 39722308.72 39722308.89 39722309.09 0.0090 0.0030

Neptune 104044-02-16 13:25 G 39722396.88 39722397.06 39722397.24 0.0090 0.0040

Earth 104044-04-03 03:06 G 39722443.54 39722443.63 39722443.72 0.2647 0.1348

Moon 104044-04-03 03:49 G 39722443.57 39722443.66 39722443.74 0.2650 0.1525 *

Neptune 104044-05-14 17:01 G 39722485.06 39722485.21 39722485.38 0.0090 0.0051

Neptune 104044-08-10 20:37 G 39722573.24 39722573.36 39722573.52 0.0090 0.0062

Jupiter 104044-09-22 17:01 G 39722616.13 39722616.21 39722616.29 0.0514 0.0404

Neptune 104044-11-07 00:42 G 39722661.42 39722661.53 39722661.65 0.0090 0.0072

Jupiter 104044-12-20 21:06 G 39722705.27 39722705.38 39722705.50 0.0512 0.0221

Neptune 104045-02-03 04:18 G 39722749.62 39722749.68 39722749.77 0.0090 0.0083

Mars 104046-11-27 21:21 G 39723412.30 39723412.39 39723412.48 0.1657 0.1089

Mars 104048-11-01 23:45 G 39724117.41 39724117.49 39724117.58 0.1635 0.1069

Jupiter 104051-02-07 18:13 G 39724945.07 39724945.26 39724945.44 0.0513 0.0010

Venus 104052-11-29 20:37 G 39725606.28 39725606.36 39725606.43 0.3657 0.2425

Saturn 104056-04-16 14:52 G 39726840.02 39726840.12 39726840.22 0.0297 0.0184

Mars 104056-04-19 08:37 G 39726842.84 39726842.86 39726842.88 0.1663 0.1632

Saturn 104056-07-14 03:06 G 39726928.50 39726928.63 39726928.76 0.0296 0.0015

Jupiter 104056-10-09 02:09 G 39727015.46 39727015.59 39727015.71 0.0513 0.0073

Saturn 104056-10-10 14:52 G 39727017.02 39727017.12 39727017.23 0.0295 0.0159

Mars 104057-05-24 17:59 G 39727243.22 39727243.25 39727243.28 0.1907 0.1862

Mars 104058-03-25 11:16 G 39727547.86 39727547.97 39727548.08 0.1640 0.0555

Venus 104058-06-15 11:59 G 39727629.90 39727630.00 39727630.10 0.3654 0.0653

Jupiter 104062-11-26 12:42 G 39729254.87 39729255.03 39729255.19 0.0512 0.0267

Venus 104063-12-30 03:06 G 39729653.53 39729653.63 39729653.73 0.3651 0.1090

Moon 104064-03-29 21:49 G 39729744.32 39729744.41 39729744.51 0.2657 0.1367

Earth 104064-03-29 21:49 G 39729744.32 39729744.41 39729744.50 0.2650 0.1383 *

Uranus 104065-09-06 01:11 G 39730269.50 39730269.55 39730269.62 0.0141 0.0124

Uranus 104065-12-03 04:33 G 39730357.61 39730357.69 39730357.79 0.0141 0.0104

Uranus 104066-03-01 08:09 G 39730445.74 39730445.84 39730445.95 0.0141 0.0083

Uranus 104066-05-28 11:30 G 39730533.87 39730533.98 39730534.10 0.0141 0.0063

Uranus 104066-08-24 15:06 G 39730622.00 39730622.13 39730622.25 0.0141 0.0042

Mars 104066-10-14 10:04 G 39730672.76 39730672.92 39730673.09 0.1898 0.0168

Uranus 104066-11-20 18:28 G 39730710.14 39730710.27 39730710.40 0.0141 0.0022

Uranus 104067-02-16 21:49 G 39730798.28 39730798.41 39730798.54 0.0141 0.0003

Uranus 104067-05-16 01:11 G 39730886.42 39730886.55 39730886.68 0.0141 0.0020

Uranus 104067-08-12 04:33 G 39730974.57 39730974.69 39730974.82 0.0141 0.0040

Mars 104067-08-15 22:33 G 39730978.33 39730978.44 39730978.56 0.1645 0.0049

Uranus 104067-11-08 07:54 G 39731062.72 39731062.83 39731062.96 0.0141 0.0061

Uranus 104068-02-04 11:30 G 39731150.87 39731150.98 39731151.09 0.0141 0.0081

Uranus 104068-05-02 14:37 G 39731239.03 39731239.11 39731239.21 0.0141 0.0102

Jupiter 104068-07-28 06:57 G 39731325.67 39731325.79 39731325.92 0.0513 0.0077

Uranus 104068-07-29 18:13 G 39731327.20 39731327.26 39731327.33 0.0142 0.0122

Venus 104069-07-14 18:13 G 39731677.20 39731677.26 39731677.33 0.3648 0.2818

Saturn 104072-01-24 03:49 G 39732600.48 39732600.66 39732600.84 0.0265 0.0098

Saturn 104072-04-22 01:40 G 39732689.39 39732689.57 39732689.75 0.0266 0.0088

Earth 104073-10-03 17:16 G 39733219.05 39733219.22 39733219.38 0.2684 0.0284

Moon 104073-10-03 18:13 G 39733219.10 39733219.26 39733219.43 0.2677 0.0224 *

Jupiter 104074-09-14 09:06 G 39733564.84 39733564.88 39733564.92 0.0512 0.0498

Jupiter 104074-12-13 23:16 G 39733655.39 39733655.47 39733655.55 0.0515 0.0458

Mars 104076-03-05 02:23 G 39734102.51 39734102.60 39734102.71 0.1889 0.1513

Mars 104077-01-05 10:04 G 39734408.81 39734408.92 39734409.03 0.1651 0.0496

Earth 104077-04-01 14:52 G 39734495.01 39734495.12 39734495.23 0.2649 0.0146

Moon 104077-04-01 15:35 G 39734495.04 39734495.15 39734495.25 0.2649 0.0281 *

Jupiter 104080-05-16 11:30 G 39735635.87 39735635.98 39735636.09 0.0514 0.0235

Jupiter 104080-08-13 15:21 G 39735725.06 39735725.14 39735725.23 0.0511 0.0385

Saturn 104085-09-03 16:33 G 39737572.12 39737572.19 39737572.26 0.0297 0.0242

Saturn 104085-12-01 04:33 G 39737660.57 39737660.69 39737660.82 0.0296 0.0070

Saturn 104086-02-27 16:33 G 39737749.07 39737749.19 39737749.31 0.0296 0.0102

Saturn 104086-05-27 04:33 G 39737837.64 39737837.69 39737837.74 0.0295 0.0270

Mars 104086-05-28 21:06 G 39737839.30 39737839.38 39737839.47 0.1657 0.1030

Jupiter 104086-10-01 19:40 G 39737965.16 39737965.32 39737965.49 0.0514 0.0228

Mars 104088-05-02 23:45 G 39738544.41 39738544.49 39738544.57 0.1635 0.1130

Earth 104090-04-04 07:54 G 39739245.74 39739245.83 39739245.91 0.2647 0.1662

Moon 104090-04-04 08:09 G 39739245.76 39739245.84 39739245.93 0.2642 0.1702 *

Jupiter 104092-03-04 16:04 G 39739946.09 39739946.17 39739946.25 0.0514 0.0393

Jupiter 104092-06-01 20:09 G 39740035.23 39740035.34 39740035.45 0.0512 0.0231

Mars 104095-10-19 08:37 G 39741269.82 39741269.86 39741269.90 0.1663 0.1563

Pluto 104096-04-15 04:04 G 39741448.63 39741448.67 39741448.72 0.0084 0.0078

Pluto 104096-07-12 05:01 G 39741536.63 39741536.71 39741536.81 0.0084 0.0060

Pluto 104096-10-08 06:13 G 39741624.66 39741624.76 39741624.89 0.0084 0.0041

Pluto 104097-01-04 07:40 G 39741712.69 39741712.82 39741712.95 0.0084 0.0022

Moon 104097-03-28 09:49 G 39741795.87 39741795.91 39741795.94 0.2657 0.2483

Earth 104097-03-28 09:21 G 39741795.88 39741795.89 39741795.91 0.2651 0.2598 *

Pluto 104097-04-02 08:52 G 39741800.74 39741800.87 39741801.01 0.0084 0.0003

Pluto 104097-06-29 10:04 G 39741888.79 39741888.92 39741889.05 0.0083 0.0016

Mars 104097-09-23 11:16 G 39741974.86 39741974.97 39741975.07 0.1640 0.0623

Pluto 104097-09-25 11:16 G 39741976.85 39741976.97 39741977.09 0.0083 0.0034

Pluto 104097-12-22 12:28 G 39742064.92 39742065.02 39742065.13 0.0083 0.0053

Pluto 104098-03-20 13:25 G 39742153.00 39742153.06 39742153.14 0.0083 0.0071

Jupiter 104098-07-20 16:04 G 39742274.99 39742275.17 39742275.36 0.0513 0.0011

Venus 104099-12-28 00:42 G 39742800.37 39742800.53 39742800.68 0.3721 0.0807

Saturn 104101-06-13 02:23 G 39743332.45 39743332.60 39743332.76 0.0265 0.0154

Saturn 104101-09-10 00:13 G 39743421.32 39743421.51 39743421.70 0.0266 0.0032

Saturn 104101-12-07 22:04 G 39743510.32 39743510.42 39743510.53 0.0266 0.0219

Venus 104103-12-23 02:37 G 39744255.60 39744255.61 39744255.62 0.3659 0.3603

Jupiter 104104-03-22 00:28 G 39744345.40 39744345.52 39744345.65 0.0513 0.0072

Mars 104106-04-15 11:01 G 39745099.79 39745099.96 39745100.13 0.1899 0.0304

Uranus 104106-09-27 17:45 G 39745265.15 39745265.24 39745265.33 0.0137 0.0122

Uranus 104106-12-25 01:11 G 39745353.42 39745353.55 39745353.70 0.0137 0.0094

Mars 104107-02-14 22:33 G 39745405.33 39745405.44 39745405.56 0.1645 0.0108

Uranus 104107-03-23 08:37 G 39745441.71 39745441.86 39745442.05 0.0137 0.0067

Uranus 104107-06-19 16:33 G 39745530.01 39745530.19 39745530.38 0.0137 0.0039

Uranus 104107-09-16 00:13 G 39745618.32 39745618.51 39745618.71 0.0137 0.0012

Uranus 104107-12-13 07:54 G 39745706.64 39745706.83 39745707.03 0.0137 0.0017

Uranus 104108-03-10 15:49 G 39745794.97 39745795.16 39745795.34 0.0137 0.0044

Uranus 104108-06-06 23:16 G 39745883.31 39745883.47 39745883.64 0.0137 0.0072

Uranus 104108-09-03 06:57 G 39745971.67 39745971.79 39745971.93 0.0137 0.0100

Uranus 104108-11-30 14:52 G 39746060.05 39746060.12 39746060.19 0.0137 0.0127

Venus 104109-07-07 17:59 G 39746279.16 39746279.25 39746279.34 0.3656 0.1811

Earth 104110-04-01 02:23 G 39746546.51 39746546.60 39746546.70 0.2650 0.1073

Moon 104110-04-01 03:06 G 39746546.53 39746546.63 39746546.73 0.2650 0.1018 *

Jupiter 104110-05-09 11:59 G 39746584.84 39746585.00 39746585.16 0.0513 0.0247

Venus 104115-01-21 09:21 G 39748302.78 39748302.89 39748302.99 0.3653 0.0139

Saturn 104115-01-22 18:57 G 39748304.26 39748304.29 39748304.33 0.0297 0.0287

Saturn 104115-04-21 07:11 G 39748392.68 39748392.80 39748392.92 0.0296 0.0113

Saturn 104115-07-18 19:11 G 39748481.18 39748481.30 39748481.43 0.0296 0.0059

Mars 104115-09-05 03:35 G 39748529.53 39748529.65 39748529.77 0.1890 0.1356

Saturn 104115-10-15 07:11 G 39748569.72 39748569.80 39748569.88 0.0295 0.0227

Jupiter 104116-01-09 05:16 G 39748655.60 39748655.72 39748655.85 0.0513 0.0083

Mars 104116-07-07 09:49 G 39748835.80 39748835.91 39748836.02 0.1651 0.0431

Moon 104119-10-05 23:01 G 39750021.29 39750021.46 39750021.62 0.2679 0.0244

Earth 104119-10-05 23:59 G 39750021.34 39750021.50 39750021.67 0.2684 0.0464 *

Venus 104120-08-06 00:28 G 39750326.43 39750326.52 39750326.61 0.3650 0.1685

Neptune 104121-10-20 13:40 G 39750767.06 39750767.07 39750767.09 0.0088 0.0087

Neptune 104122-01-16 15:06 G 39750855.08 39750855.13 39750855.18 0.0088 0.0080

Jupiter 104122-02-25 06:57 G 39750894.75 39750894.79 39750894.82 0.0512 0.0501

Neptune 104122-04-14 16:04 G 39750943.12 39750943.17 39750943.26 0.0088 0.0074

Jupiter 104122-05-26 20:52 G 39750985.28 39750985.37 39750985.45 0.0514 0.0452

Neptune 104122-07-11 17:30 G 39751031.15 39751031.23 39751031.32 0.0088 0.0067

Neptune 104122-10-07 18:42 G 39751119.20 39751119.28 39751119.39 0.0088 0.0060

Neptune 104123-01-03 20:09 G 39751207.24 39751207.34 39751207.45 0.0088 0.0053

Neptune 104123-04-01 21:35 G 39751295.28 39751295.40 39751295.51 0.0088 0.0046

Earth 104123-04-03 19:40 G 39751297.21 39751297.32 39751297.42 0.2649 0.0469

Moon 104123-04-03 19:54 G 39751297.22 39751297.33 39751297.43 0.2642 0.0567 *

Neptune 104123-06-28 22:33 G 39751383.33 39751383.44 39751383.57 0.0088 0.0040

Neptune 104123-09-24 23:59 G 39751471.38 39751471.50 39751471.62 0.0088 0.0033

Neptune 104123-12-22 01:11 G 39751559.43 39751559.55 39751559.68 0.0088 0.0026

Neptune 104124-03-19 02:37 G 39751647.48 39751647.61 39751647.73 0.0088 0.0019

Neptune 104124-06-15 03:49 G 39751735.53 39751735.66 39751735.79 0.0088 0.0012

Neptune 104124-09-11 05:01 G 39751823.58 39751823.71 39751823.84 0.0088 0.0005

Neptune 104124-12-08 06:13 G 39751911.63 39751911.76 39751911.89 0.0088 0.0002

Neptune 104125-03-06 07:25 G 39751999.68 39751999.81 39751999.95 0.0088 0.0008

Neptune 104125-06-02 08:52 G 39752087.74 39752087.87 39752088.00 0.0088 0.0015

Neptune 104125-08-29 09:49 G 39752175.79 39752175.91 39752176.05 0.0088 0.0022

Neptune 104125-11-25 11:01 G 39752263.85 39752263.96 39752264.09 0.0088 0.0029

Mars 104125-11-27 21:06 G 39752266.29 39752266.38 39752266.48 0.1657 0.0965

Venus 104126-02-19 15:35 G 39752350.12 39752350.15 39752350.19 0.3647 0.3400

Neptune 104126-02-21 12:28 G 39752351.90 39752352.02 39752352.14 0.0088 0.0035

Neptune 104126-05-20 13:40 G 39752439.96 39752440.07 39752440.19 0.0088 0.0042

Neptune 104126-08-16 14:52 G 39752528.02 39752528.12 39752528.24 0.0088 0.0049

Neptune 104126-11-12 16:04 G 39752616.08 39752616.17 39752616.28 0.0088 0.0056

Neptune 104127-02-08 17:30 G 39752704.14 39752704.23 39752704.32 0.0088 0.0062

Neptune 104127-05-07 18:42 G 39752792.20 39752792.28 39752792.36 0.0088 0.0069

Neptune 104127-08-03 19:40 G 39752880.27 39752880.32 39752880.40 0.0088 0.0076

Jupiter 104127-10-28 10:04 G 39752965.81 39752965.92 39752966.04 0.0514 0.0234

Neptune 104127-10-30 20:52 G 39752968.35 39752968.37 39752968.43 0.0088 0.0083

Mars 104127-11-02 23:45 G 39752971.41 39752971.49 39752971.57 0.1635 0.1196

Jupiter 104128-01-25 14:09 G 39753055.01 39753055.09 39753055.17 0.0512 0.0387

Saturn 104130-10-31 02:52 G 39754064.50 39754064.62 39754064.76 0.0265 0.0194

Saturn 104131-01-28 00:42 G 39754153.34 39754153.53 39754153.73 0.0266 0.0011

Saturn 104131-04-26 22:33 G 39754242.31 39754242.44 39754242.59 0.0266 0.0179

Jupiter 104134-03-14 16:47 G 39755295.03 39755295.20 39755295.37 0.0514 0.0212

Mars 104135-04-20 08:23 G 39755696.81 39755696.85 39755696.90 0.1663 0.1506

Moon 104136-04-05 11:59 G 39756047.93 39756048.00 39756048.08 0.2643 0.1840

Earth 104136-04-05 12:28 G 39756047.95 39756048.02 39756048.09 0.2647 0.1979 *

Mars 104137-03-25 11:01 G 39756401.86 39756401.96 39756402.07 0.1640 0.0684

Jupiter 104139-08-16 14:37 G 39757276.03 39757276.11 39757276.19 0.0515 0.0393

Jupiter 104139-11-13 18:42 G 39757365.17 39757365.28 39757365.40 0.0512 0.0231

Earth 104143-03-30 14:09 G 39758598.04 39758598.09 39758598.14 0.2651 0.2284

Moon 104143-03-30 14:52 G 39758598.06 39758598.12 39758598.18 0.2650 0.2182 *

Saturn 104144-09-07 09:21 G 39759124.79 39759124.89 39759125.00 0.0297 0.0163

Saturn 104144-12-04 21:35 G 39759213.27 39759213.40 39759213.52 0.0296 0.0013

Saturn 104145-03-03 09:21 G 39759301.79 39759301.89 39759301.99 0.0295 0.0179

Mars 104145-10-14 12:13 G 39759526.84 39759527.01 39759527.17 0.1899 0.0472

Jupiter 104145-12-31 13:11 G 39759604.87 39759605.05 39759605.24 0.0513 0.0020

Mars 104146-08-15 22:33 G 39759832.32 39759832.44 39759832.55 0.1645 0.0164

Uranus 104149-07-01 05:01 G 39760882.70 39760882.71 39760882.73 0.0141 0.0140

Uranus 104149-09-27 08:37 G 39760970.79 39760970.86 39760970.93 0.0141 0.0119

Uranus 104149-12-24 11:59 G 39761058.91 39761059.00 39761059.09 0.0141 0.0099

Uranus 104150-03-22 15:21 G 39761147.04 39761147.14 39761147.25 0.0141 0.0079

Uranus 104150-06-18 18:42 G 39761235.17 39761235.28 39761235.41 0.0141 0.0058

Uranus 104150-09-14 22:18 G 39761323.30 39761323.43 39761323.56 0.0141 0.0038

Uranus 104150-12-12 01:40 G 39761411.44 39761411.57 39761411.70 0.0141 0.0017

Uranus 104151-03-10 05:01 G 39761499.58 39761499.71 39761499.85 0.0141 0.0005

Uranus 104151-06-06 08:23 G 39761587.73 39761587.85 39761587.99 0.0141 0.0025

Jupiter 104151-09-01 23:16 G 39761675.35 39761675.47 39761675.60 0.0512 0.0078

Uranus 104151-09-02 11:59 G 39761675.87 39761676.00 39761676.12 0.0141 0.0044

Uranus 104151-11-29 15:06 G 39761764.02 39761764.13 39761764.26 0.0141 0.0066

Uranus 104152-02-25 18:42 G 39761852.18 39761852.28 39761852.39 0.0141 0.0085

Uranus 104152-05-23 22:04 G 39761940.34 39761940.42 39761940.51 0.0141 0.0106

Uranus 104152-08-20 01:25 G 39762028.51 39762028.56 39762028.62 0.0141 0.0126

Mars 104155-03-06 04:18 G 39762956.55 39762956.68 39762956.80 0.1890 0.1229

Mars 104156-01-06 09:49 G 39763262.80 39763262.91 39763263.03 0.1651 0.0366

Moon 104156-04-01 07:25 G 39763348.70 39763348.81 39763348.91 0.2643 0.0722

Earth 104156-04-01 07:11 G 39763348.70 39763348.80 39763348.91 0.2650 0.0753 *

Venus 104156-08-04 03:21 G 39763473.49 39763473.64 39763473.79 0.3722 0.1323

Jupiter 104157-10-19 09:35 G 39763914.74 39763914.90 39763915.06 0.0513 0.0252

Saturn 104160-03-19 01:54 G 39764796.52 39764796.58 39764796.65 0.0265 0.0246

Saturn 104160-06-15 23:45 G 39764885.30 39764885.49 39764885.68 0.0266 0.0062

Venus 104160-07-28 23:59 G 39764928.44 39764928.50 39764928.56 0.3658 0.2985

Saturn 104160-09-12 21:35 G 39764974.23 39764974.40 39764974.57 0.0266 0.0125

Jupiter 104163-06-21 03:35 G 39765985.53 39765985.65 39765985.78 0.0513 0.0088

Mars 104165-05-28 21:06 G 39766693.29 39766693.38 39766693.48 0.1657 0.0898

Moon 104165-10-06 05:30 G 39766823.58 39766823.73 39766823.88 0.2688 0.1074

Earth 104165-10-06 07:11 G 39766823.65 39766823.80 39766823.94 0.2684 0.1209 *

Venus 104166-02-11 15:21 G 39766952.05 39766952.14 39766952.24 0.3655 0.1203

Mars 104167-05-03 23:45 G 39767398.42 39767398.49 39767398.56 0.1634 0.1265

Moon 104169-04-03 23:45 G 39768099.39 39768099.49 39768099.60 0.2644 0.0668

Earth 104169-04-04 00:13 G 39768099.41 39768099.51 39768099.61 0.2648 0.0776 *

Jupiter 104169-08-07 05:30 G 39768224.68 39768224.73 39768224.79 0.0512 0.0489

Jupiter 104169-11-05 19:25 G 39768315.24 39768315.31 39768315.40 0.0514 0.0466

Venus 104171-08-28 06:42 G 39768975.68 39768975.78 39768975.88 0.3652 0.0558

Saturn 104174-01-25 12:13 G 39769856.92 39769857.01 39769857.11 0.0297 0.0204

Saturn 104174-04-24 00:28 G 39769945.39 39769945.52 39769945.64 0.0296 0.0032

Saturn 104174-07-21 12:13 G 39770033.90 39770034.01 39770034.13 0.0295 0.0140

Mars 104174-10-19 08:23 G 39770123.80 39770123.85 39770123.91 0.1663 0.1441

Jupiter 104175-04-09 08:23 G 39770295.74 39770295.85 39770295.96 0.0514 0.0242

Jupiter 104175-07-07 12:28 G 39770384.93 39770385.02 39770385.10 0.0512 0.0379

Mars 104176-09-23 11:01 G 39770828.86 39770828.96 39770829.06 0.1640 0.0750

Venus 104177-03-12 21:49 G 39770999.33 39770999.41 39770999.49 0.3649 0.2279

Jupiter 104181-08-24 14:09 G 39772624.92 39772625.09 39772625.26 0.0513 0.0203

Moon 104182-04-06 16:33 G 39772850.14 39772850.19 39772850.25 0.2649 0.2226

Earth 104182-04-06 17:16 G 39772850.17 39772850.22 39772850.27 0.2647 0.2291 *

Mars 104185-04-14 12:57 G 39773953.88 39773954.04 39773954.20 0.1899 0.0616

Mars 104186-02-13 22:33 G 39774259.32 39774259.44 39774259.55 0.1645 0.0231

Jupiter 104187-01-26 12:57 G 39774605.96 39774606.04 39774606.12 0.0515 0.0398

Jupiter 104187-04-25 17:16 G 39774695.10 39774695.22 39774695.33 0.0512 0.0229

Moon 104189-03-30 18:57 G 39775400.22 39775400.29 39775400.36 0.2644 0.2017

Earth 104189-03-30 18:57 G 39775400.22 39775400.29 39775400.36 0.2651 0.1968 *

Saturn 104189-11-03 00:42 G 39775617.36 39775617.53 39775617.71 0.0266 0.0099

Saturn 104190-01-30 22:33 G 39775706.26 39775706.44 39775706.63 0.0266 0.0088

Uranus 104190-10-17 23:59 G 39775966.41 39775966.50 39775966.61 0.0137 0.0117

Uranus 104191-01-14 07:40 G 39776054.68 39776054.82 39776054.98 0.0137 0.0089

Uranus 104191-04-12 15:21 G 39776142.98 39776143.14 39776143.32 0.0137 0.0062

Uranus 104191-07-09 23:16 G 39776231.28 39776231.47 39776231.66 0.0137 0.0034

Uranus 104191-10-06 06:57 G 39776319.60 39776319.79 39776319.98 0.0137 0.0006

Uranus 104192-01-02 14:37 G 39776407.92 39776408.11 39776408.30 0.0137 0.0021

Uranus 104192-03-30 22:18 G 39776496.25 39776496.43 39776496.61 0.0137 0.0049

Uranus 104192-06-27 05:59 G 39776584.59 39776584.75 39776584.91 0.0137 0.0077

Uranus 104192-09-23 13:25 G 39776672.95 39776673.06 39776673.20 0.0137 0.0105

Uranus 104192-12-20 21:21 G 39776761.35 39776761.39 39776761.44 0.0137 0.0132

Jupiter 104193-06-12 10:04 G 39776934.73 39776934.92 39776935.10 0.0513 0.0038

Mars 104194-09-04 05:16 G 39777383.58 39777383.72 39777383.86 0.1890 0.1063

Mars 104195-07-07 09:49 G 39777689.80 39777689.91 39777690.03 0.1651 0.0299

Moon 104198-10-04 03:06 G 39778874.55 39778874.63 39778874.72 0.2687 0.2230

Earth 104198-10-04 04:33 G 39778874.58 39778874.69 39778874.80 0.2683 0.1968 *

Jupiter 104199-02-11 21:35 G 39779005.28 39779005.40 39779005.53 0.0513 0.0072

Moon 104202-04-03 11:30 G 39780150.87 39780150.98 39780151.08 0.2645 0.0480

Earth 104202-04-03 11:59 G 39780150.89 39780151.00 39780151.11 0.2649 0.0438 *

Saturn 104203-06-15 14:52 G 39780589.05 39780589.12 39780589.19 0.0297 0.0248

Saturn 104203-09-12 02:52 G 39780677.50 39780677.62 39780677.75 0.0296 0.0076

Saturn 104203-12-09 14:52 G 39780766.00 39780766.12 39780766.25 0.0295 0.0096

Saturn 104204-03-07 02:52 G 39780854.56 39780854.62 39780854.67 0.0295 0.0264

Mars 104204-11-27 21:06 G 39781120.28 39781120.38 39781120.48 0.1657 0.0834

Jupiter 104205-04-01 06:13 G 39781244.61 39781244.76 39781244.92 0.0513 0.0270

Neptune 104205-12-22 14:09 G 39781510.03 39781510.09 39781510.17 0.0090 0.0084

Neptune 104206-03-20 18:13 G 39781598.15 39781598.26 39781598.37 0.0090 0.0073

Neptune 104206-06-16 21:35 G 39781686.28 39781686.40 39781686.55 0.0090 0.0063

Neptune 104206-09-13 01:40 G 39781774.41 39781774.57 39781774.73 0.0090 0.0052

Mars 104206-11-02 23:30 G 39781825.42 39781825.48 39781825.55 0.1634 0.1329

Neptune 104206-12-10 05:16 G 39781862.56 39781862.72 39781862.90 0.0090 0.0041

Neptune 104207-03-08 09:06 G 39781950.70 39781950.88 39781951.07 0.0090 0.0031

Neptune 104207-06-04 12:57 G 39782038.86 39782039.04 39782039.24 0.0090 0.0020

Venus 104207-08-26 18:28 G 39782122.21 39782122.27 39782122.34 0.3719 0.3356

Neptune 104207-08-31 16:47 G 39782127.01 39782127.20 39782127.40 0.0090 0.0009

Neptune 104207-11-27 20:37 G 39782215.17 39782215.36 39782215.56 0.0090 0.0002

Neptune 104208-02-24 00:28 G 39782303.33 39782303.52 39782303.72 0.0090 0.0012

Neptune 104208-05-22 04:18 G 39782391.49 39782391.68 39782391.87 0.0090 0.0023

Neptune 104208-08-18 07:54 G 39782479.66 39782479.83 39782480.02 0.0090 0.0034

Neptune 104208-11-14 11:30 G 39782567.83 39782567.98 39782568.17 0.0090 0.0045

Neptune 104209-02-10 15:21 G 39782656.00 39782656.14 39782656.31 0.0090 0.0056

Neptune 104209-05-09 19:25 G 39782744.18 39782744.31 39782744.44 0.0090 0.0066

Neptune 104209-08-05 23:01 G 39782832.37 39782832.46 39782832.57 0.0090 0.0077

Neptune 104209-11-02 02:37 G 39782920.59 39782920.61 39782920.67 0.0090 0.0088

Jupiter 104210-12-02 02:09 G 39783315.47 39783315.59 39783315.72 0.0513 0.0087

Earth 104211-10-08 14:09 G 39783625.98 39783626.09 39783626.20 0.2684 0.1956

Moon 104211-10-08 14:09 G 39783625.99 39783626.09 39783626.20 0.2692 0.2002 *

Venus 104213-03-12 06:13 G 39784146.71 39784146.76 39784146.81 0.3723 0.3481

Mars 104214-04-20 08:23 G 39784550.79 39784550.85 39784550.92 0.1663 0.1374

Moon 104215-04-06 04:33 G 39784901.59 39784901.69 39784901.79 0.2652 0.0948

Earth 104215-04-06 05:01 G 39784901.61 39784901.71 39784901.81 0.2648 0.1089 *

Mars 104216-03-25 11:01 G 39785255.86 39785255.96 39785256.06 0.1640 0.0816

Jupiter 104217-01-18 02:37 G 39785554.58 39785554.61 39785554.65 0.0512 0.0500

Venus 104217-03-05 21:21 G 39785601.32 39785601.39 39785601.47 0.3657 0.2371

Jupiter 104217-04-18 16:47 G 39785645.12 39785645.20 39785645.29 0.0515 0.0454

Saturn 104219-03-23 23:59 G 39786349.34 39786349.50 39786349.66 0.0265 0.0149

Saturn 104219-06-20 21:49 G 39786438.22 39786438.41 39786438.60 0.0266 0.0037

Saturn 104219-09-17 19:40 G 39786527.23 39786527.32 39786527.43 0.0267 0.0226

Venus 104222-09-19 12:42 G 39787624.93 39787625.03 39787625.13 0.3654 0.0601

Jupiter 104222-09-20 06:28 G 39787625.66 39787625.77 39787625.88 0.0514 0.0251

Jupiter 104222-12-18 10:33 G 39787714.85 39787714.94 39787715.02 0.0511 0.0369

Mars 104224-10-14 13:54 G 39788380.93 39788381.08 39788381.24 0.1899 0.0771

Mars 104225-08-15 22:33 G 39788686.33 39788686.44 39788686.55 0.1645 0.0298

Venus 104228-04-04 04:04 G 39789648.57 39789648.67 39789648.76 0.3651 0.1151

Earth 104228-04-07 21:49 G 39789652.40 39789652.41 39789652.43 0.2647 0.2606

Jupiter 104229-02-04 12:28 G 39789954.85 39789955.02 39789955.19 0.0514 0.0210

Saturn 104232-11-01 17:45 G 39791321.21 39791321.24 39791321.27 0.0297 0.0287

Saturn 104233-01-29 05:59 G 39791409.63 39791409.75 39791409.87 0.0296 0.0114

Saturn 104233-04-27 17:59 G 39791498.12 39791498.25 39791498.38 0.0295 0.0058

Uranus 104233-07-22 12:13 G 39791583.98 39791584.01 39791584.05 0.0141 0.0135

Saturn 104233-07-25 05:45 G 39791586.67 39791586.74 39791586.83 0.0295 0.0227

Uranus 104233-10-18 15:49 G 39791672.09 39791672.16 39791672.24 0.0141 0.0114

Venus 104233-10-18 19:11 G 39791672.24 39791672.30 39791672.36 0.3649 0.2868 *

Uranus 104234-01-14 19:11 G 39791760.21 39791760.30 39791760.40 0.0141 0.0094

Mars 104234-03-06 06:28 G 39791810.62 39791810.77 39791810.92 0.1890 0.0900

Uranus 104234-04-12 22:33 G 39791848.34 39791848.44 39791848.56 0.0141 0.0074

Jupiter 104234-07-09 11:01 G 39791935.88 39791935.96 39791936.03 0.0515 0.0409

Uranus 104234-07-10 02:09 G 39791936.47 39791936.59 39791936.71 0.0141 0.0053

Uranus 104234-10-06 05:30 G 39792024.60 39792024.73 39792024.86 0.0141 0.0033

Jupiter 104234-10-06 15:06 G 39792025.02 39792025.13 39792025.25 0.0512 0.0217

Uranus 104235-01-02 08:52 G 39792112.74 39792112.87 39792113.01 0.0141 0.0013

Mars 104235-01-06 09:49 G 39792116.79 39792116.91 39792117.02 0.1651 0.0236

Uranus 104235-03-31 12:28 G 39792200.89 39792201.02 39792201.15 0.0141 0.0009

Moon 104235-04-01 23:01 G 39792202.38 39792202.46 39792202.54 0.2648 0.1745

Earth 104235-04-01 23:45 G 39792202.40 39792202.49 39792202.57 0.2650 0.1653 *

Uranus 104235-06-27 15:49 G 39792289.03 39792289.16 39792289.29 0.0141 0.0029

Uranus 104235-09-23 19:11 G 39792377.18 39792377.30 39792377.43 0.0141 0.0050

Uranus 104235-12-20 22:33 G 39792465.33 39792465.44 39792465.56 0.0141 0.0070

Uranus 104236-03-18 01:54 G 39792553.49 39792553.58 39792553.69 0.0141 0.0091

Uranus 104236-06-14 05:30 G 39792641.65 39792641.73 39792641.81 0.0141 0.0111

Uranus 104236-09-10 08:37 G 39792729.83 39792729.86 39792729.92 0.0142 0.0132

Jupiter 104240-11-23 07:11 G 39794264.62 39794264.80 39794264.99 0.0513 0.0048

Mars 104244-05-28 21:06 G 39795547.28 39795547.38 39795547.48 0.1656 0.0769

Earth 104244-10-05 11:30 G 39795676.83 39795676.98 39795677.12 0.2683 0.1224

Moon 104244-10-05 12:28 G 39795676.87 39795677.02 39795677.17 0.2689 0.0980 *

Mars 104246-05-03 23:30 G 39796252.42 39796252.48 39796252.54 0.1634 0.1393

Jupiter 104246-07-25 19:54 G 39796335.20 39796335.33 39796335.46 0.0513 0.0063

Moon 104248-04-03 16:18 G 39796953.07 39796953.18 39796953.29 0.2654 0.0215

Earth 104248-04-03 16:47 G 39796953.09 39796953.20 39796953.30 0.2649 0.0149 *

Saturn 104248-08-10 01:11 G 39797081.42 39797081.55 39797081.69 0.0266 0.0184

Saturn 104248-11-06 23:01 G 39797170.27 39797170.46 39797170.65 0.0266 0.0002

Saturn 104249-02-03 20:52 G 39797259.24 39797259.37 39797259.51 0.0267 0.0190

Pluto 104249-11-05 04:04 G 39797533.59 39797533.67 39797533.80 0.0060 0.0051

Pluto 104250-02-01 05:30 G 39797621.61 39797621.73 39797621.89 0.0060 0.0041

Pluto 104250-04-30 06:57 G 39797709.64 39797709.79 39797709.97 0.0060 0.0031

Pluto 104250-07-27 08:23 G 39797797.68 39797797.85 39797798.04 0.0060 0.0021

Pluto 104250-10-23 09:49 G 39797885.72 39797885.91 39797886.10 0.0060 0.0011

Pluto 104251-01-19 11:01 G 39797973.77 39797973.96 39797974.16 0.0060 0.0002

Pluto 104251-04-17 12:28 G 39798061.83 39798062.02 39798062.21 0.0060 0.0009

Pluto 104251-07-14 13:40 G 39798149.89 39798150.07 39798150.26 0.0060 0.0018

Pluto 104251-10-10 14:52 G 39798237.96 39798238.12 39798238.30 0.0060 0.0029

Pluto 104252-01-06 16:04 G 39798326.04 39798326.17 39798326.33 0.0060 0.0039

Pluto 104252-04-03 17:16 G 39798414.13 39798414.22 39798414.35 0.0060 0.0049

Pluto 104252-06-30 18:42 G 39798502.25 39798502.28 39798502.34 0.0060 0.0059

Jupiter 104252-09-11 03:06 G 39798574.48 39798574.63 39798574.78 0.0512 0.0286

Mars 104253-10-19 08:23 G 39798977.78 39798977.85 39798977.92 0.1662 0.1311

Mars 104255-09-24 11:01 G 39799682.86 39799682.96 39799683.06 0.1639 0.0881

Jupiter 104258-05-14 00:28 G 39800645.39 39800645.52 39800645.64 0.0514 0.0098

Earth 104261-04-06 09:35 G 39801703.81 39801703.90 39801703.99 0.2648 0.1399

Moon 104261-04-06 09:49 G 39801703.82 39801703.91 39801704.00 0.2654 0.1470 *

Saturn 104262-06-18 09:06 G 39802141.77 39802141.88 39802141.99 0.0296 0.0151

Saturn 104262-09-14 21:06 G 39802230.25 39802230.38 39802230.51 0.0296 0.0021

Saturn 104262-12-12 08:52 G 39802318.78 39802318.87 39802318.97 0.0295 0.0190

Venus 104264-04-01 21:21 G 39802795.24 39802795.39 39802795.54 0.3720 0.1260

Mars 104264-04-14 14:52 G 39802807.98 39802808.12 39802808.27 0.1899 0.0933

Jupiter 104264-09-28 13:11 G 39802974.96 39802975.05 39802975.15 0.0514 0.0432

Mars 104265-02-13 22:18 G 39803113.32 39803113.43 39803113.55 0.1645 0.0363

Venus 104268-03-27 03:35 G 39804250.62 39804250.65 39804250.67 0.3659 0.3543

Jupiter 104270-03-02 04:47 G 39804955.60 39804955.70 39804955.82 0.0514 0.0254

Jupiter 104270-05-30 08:52 G 39805044.79 39805044.87 39805044.96 0.0511 0.0367

Mars 104273-09-04 06:57 G 39806237.64 39806237.79 39806237.95 0.1890 0.0778

Venus 104273-10-10 18:57 G 39806274.20 39806274.29 39806274.38 0.3656 0.1753

Mars 104274-07-07 09:49 G 39806543.79 39806543.91 39806544.02 0.1651 0.0165

Uranus 104274-11-08 06:57 G 39806667.69 39806667.79 39806667.92 0.0137 0.0110

Uranus 104275-02-04 14:37 G 39806755.97 39806756.11 39806756.28 0.0137 0.0083

Uranus 104275-05-03 22:33 G 39806844.27 39806844.44 39806844.62 0.0137 0.0055

Uranus 104275-07-31 06:13 G 39806932.57 39806932.76 39806932.95 0.0137 0.0027

Uranus 104275-10-27 13:54 G 39807020.89 39807021.08 39807021.28 0.0137 0.0002

Uranus 104276-01-23 21:35 G 39807109.21 39807109.40 39807109.59 0.0137 0.0028

Uranus 104276-04-21 05:16 G 39807197.55 39807197.72 39807197.90 0.0137 0.0056

Jupiter 104276-07-17 09:21 G 39807284.72 39807284.89 39807285.07 0.0514 0.0195

Uranus 104276-07-18 12:42 G 39807285.89 39807286.03 39807286.20 0.0137 0.0084

Uranus 104276-10-14 20:37 G 39807374.26 39807374.36 39807374.48 0.0137 0.0111

Saturn 104277-12-28 00:28 G 39807813.44 39807813.52 39807813.62 0.0265 0.0233

Saturn 104278-03-26 22:18 G 39807902.24 39807902.43 39807902.62 0.0266 0.0048

Saturn 104278-06-23 20:23 G 39807991.18 39807991.35 39807991.51 0.0266 0.0140

Venus 104279-04-26 10:04 G 39808297.82 39808297.92 39808298.03 0.3653 0.0141

Moon 104281-04-02 04:04 G 39809004.58 39809004.67 39809004.76 0.2655 0.1356

Earth 104281-04-02 04:18 G 39809004.59 39809004.68 39809004.78 0.2650 0.1339 *

Jupiter 104281-12-19 09:06 G 39809265.81 39809265.88 39809265.95 0.0515 0.0419

Jupiter 104282-03-18 13:11 G 39809354.94 39809355.05 39809355.17 0.0512 0.0207

Mars 104283-11-27 21:06 G 39809974.27 39809974.38 39809974.48 0.1656 0.0702

Venus 104284-11-09 01:25 G 39810321.47 39810321.56 39810321.65 0.3651 0.1745

Mars 104285-11-01 23:30 G 39810679.43 39810679.48 39810679.53 0.1634 0.1465

Neptune 104286-07-18 13:25 G 39810938.03 39810938.06 39810938.11 0.0088 0.0084

Neptune 104286-10-14 14:52 G 39811026.06 39811026.12 39811026.18 0.0088 0.0077

Neptune 104287-01-10 16:18 G 39811114.10 39811114.18 39811114.25 0.0088 0.0070

Neptune 104287-04-08 17:16 G 39811202.14 39811202.22 39811202.32 0.0088 0.0064

Neptune 104287-07-05 18:28 G 39811290.18 39811290.27 39811290.38 0.0088 0.0057

Neptune 104287-10-01 19:54 G 39811378.23 39811378.33 39811378.44 0.0088 0.0050

Neptune 104287-12-28 21:21 G 39811466.27 39811466.39 39811466.50 0.0088 0.0043

Neptune 104288-03-25 22:18 G 39811554.32 39811554.43 39811554.56 0.0088 0.0037

Jupiter 104288-05-05 05:16 G 39811594.53 39811594.72 39811594.90 0.0513 0.0046

Neptune 104288-06-21 23:45 G 39811642.37 39811642.49 39811642.62 0.0088 0.0030

Neptune 104288-09-18 00:57 G 39811730.42 39811730.54 39811730.67 0.0088 0.0023

Neptune 104288-12-15 02:23 G 39811818.47 39811818.60 39811818.73 0.0088 0.0016

Neptune 104289-03-13 03:35 G 39811906.52 39811906.65 39811906.78 0.0088 0.0009

Neptune 104289-06-09 04:47 G 39811994.57 39811994.70 39811994.83 0.0088 0.0003

Neptune 104289-09-05 05:59 G 39812082.62 39812082.75 39812082.88 0.0088 0.0004

Neptune 104289-12-02 07:11 G 39812170.67 39812170.80 39812170.94 0.0088 0.0011

Neptune 104290-02-28 08:23 G 39812258.73 39812258.85 39812258.99 0.0088 0.0018

Venus 104290-05-25 16:33 G 39812345.16 39812345.19 39812345.22 0.3648 0.3453

Neptune 104290-05-27 09:35 G 39812346.78 39812346.90 39812347.03 0.0088 0.0025

Neptune 104290-08-23 11:01 G 39812434.84 39812434.96 39812435.08 0.0088 0.0031

Earth 104290-10-06 18:28 G 39812479.11 39812479.27 39812479.43 0.2683 0.0488

Moon 104290-10-06 20:23 G 39812479.18 39812479.35 39812479.51 0.2683 0.0201 *

Neptune 104290-11-19 12:13 G 39812522.89 39812523.01 39812523.13 0.0088 0.0038

Neptune 104291-02-15 13:25 G 39812610.95 39812611.06 39812611.18 0.0088 0.0045

Neptune 104291-05-14 14:37 G 39812699.01 39812699.11 39812699.22 0.0088 0.0052

Neptune 104291-08-10 16:04 G 39812787.07 39812787.17 39812787.27 0.0088 0.0058

Saturn 104291-11-05 11:59 G 39812873.90 39812874.00 39812874.10 0.0297 0.0192

Neptune 104291-11-06 17:16 G 39812875.13 39812875.22 39812875.31 0.0088 0.0065

Saturn 104292-02-01 23:59 G 39812962.37 39812962.50 39812962.63 0.0296 0.0020

Neptune 104292-02-02 18:13 G 39812963.20 39812963.26 39812963.35 0.0088 0.0072

Saturn 104292-04-30 11:59 G 39813050.89 39813051.00 39813051.11 0.0295 0.0151

Neptune 104292-04-30 19:25 G 39813051.27 39813051.31 39813051.38 0.0088 0.0079

Neptune 104292-07-27 20:52 G 39813139.35 39813139.37 39813139.41 0.0088 0.0085

Mars 104293-04-19 08:23 G 39813404.77 39813404.85 39813404.92 0.1662 0.1247

Jupiter 104294-01-04 17:59 G 39813665.12 39813665.25 39813665.37 0.0513 0.0054

Earth 104294-04-04 21:21 G 39813755.28 39813755.39 39813755.50 0.2649 0.0195

Moon 104294-04-04 21:49 G 39813755.30 39813755.41 39813755.51 0.2655 0.0212 *

Mars 104295-03-25 11:01 G 39814109.86 39814109.96 39814110.05 0.1639 0.0948

Jupiter 104300-02-22 00:13 G 39815904.37 39815904.51 39815904.67 0.0512 0.0297

Mars 104303-10-15 15:49 G 39817235.02 39817235.16 39817235.30 0.1899 0.1082

Mars 104304-08-15 22:18 G 39817540.32 39817540.43 39817540.55 0.1645 0.0430

Jupiter 104305-10-24 22:18 G 39817975.31 39817975.43 39817975.56 0.0514 0.0108

Jupiter 104306-01-22 02:23 G 39818064.60 39818064.60 39818064.60 0.0512 0.0511

Earth 104307-04-08 14:23 G 39818506.02 39818506.10 39818506.18 0.2647 0.1711

Moon 104307-04-08 15:06 G 39818506.05 39818506.13 39818506.20 0.2646 0.1872 *

Saturn 104307-08-14 23:30 G 39818634.30 39818634.48 39818634.67 0.0266 0.0083

Saturn 104307-11-11 21:21 G 39818723.22 39818723.39 39818723.57 0.0267 0.0105

Jupiter 104312-03-11 10:04 G 39820304.81 39820304.92 39820305.03 0.0514 0.0414

Mars 104313-03-06 08:23 G 39820664.69 39820664.85 39820665.01 0.1891 0.0602

Mars 104314-01-06 09:35 G 39820970.79 39820970.90 39820971.02 0.1650 0.0123

Moon 104314-04-01 15:49 G 39821056.14 39821056.16 39821056.18 0.2658 0.2594

Earth 104314-04-01 16:04 G 39821056.14 39821056.17 39821056.19 0.2651 0.2557 *

Uranus 104317-08-12 19:40 G 39822285.28 39822285.32 39822285.38 0.0141 0.0129

Jupiter 104317-08-13 02:52 G 39822285.51 39822285.62 39822285.73 0.0514 0.0266

Uranus 104317-11-08 23:01 G 39822373.39 39822373.46 39822373.55 0.0141 0.0109

Jupiter 104317-11-10 06:57 G 39822374.70 39822374.79 39822374.88 0.0512 0.0355

Uranus 104318-02-05 02:37 G 39822461.51 39822461.61 39822461.72 0.0141 0.0088

Uranus 104318-05-04 05:59 G 39822549.64 39822549.75 39822549.87 0.0141 0.0068

Uranus 104318-07-31 09:35 G 39822637.78 39822637.90 39822638.02 0.0141 0.0047

Uranus 104318-10-27 12:57 G 39822725.91 39822726.04 39822726.17 0.0141 0.0027

Uranus 104319-01-23 16:18 G 39822814.05 39822814.18 39822814.32 0.0141 0.0008

Uranus 104319-04-21 19:54 G 39822902.20 39822902.33 39822902.46 0.0141 0.0015

Uranus 104319-07-18 23:16 G 39822990.34 39822990.47 39822990.60 0.0141 0.0035

Uranus 104319-10-15 02:37 G 39823078.49 39823078.61 39823078.73 0.0141 0.0055

Uranus 104320-01-11 05:59 G 39823166.64 39823166.75 39823166.86 0.0141 0.0076

Uranus 104320-04-08 09:21 G 39823254.80 39823254.89 39823254.99 0.0141 0.0097

Uranus 104320-07-05 12:57 G 39823342.97 39823343.04 39823343.11 0.0142 0.0117

Uranus 104320-10-01 16:04 G 39823431.15 39823431.17 39823431.21 0.0142 0.0138

Venus 104320-11-07 23:59 G 39823468.35 39823468.50 39823468.66 0.3721 0.0853

Saturn 104321-03-25 15:21 G 39823606.06 39823606.14 39823606.22 0.0297 0.0226

Saturn 104321-06-22 03:21 G 39823694.51 39823694.64 39823694.77 0.0296 0.0053

Saturn 104321-09-18 15:21 G 39823783.02 39823783.14 39823783.26 0.0295 0.0117

Saturn 104321-12-16 03:06 G 39823871.61 39823871.63 39823871.66 0.0294 0.0285

Mars 104323-05-29 21:06 G 39824401.27 39824401.38 39824401.48 0.1656 0.0639

Jupiter 104323-12-29 05:45 G 39824614.57 39824614.74 39824614.92 0.0514 0.0172

Venus 104324-11-02 00:57 G 39824923.48 39824923.54 39824923.60 0.3659 0.2920

Mars 104325-05-03 23:30 G 39825106.44 39825106.48 39825106.52 0.1634 0.1527

Earth 104327-04-04 09:06 G 39825806.78 39825806.88 39825806.98 0.2650 0.1026

Moon 104327-04-04 09:35 G 39825806.80 39825806.90 39825807.00 0.2654 0.0962 *

Jupiter 104329-06-01 07:25 G 39826595.74 39826595.81 39826595.88 0.0515 0.0423

Jupiter 104329-08-29 11:45 G 39826684.87 39826684.99 39826685.10 0.0512 0.0203

Venus 104330-05-18 16:18 G 39826947.08 39826947.18 39826947.28 0.3656 0.1143

Mars 104332-10-19 08:23 G 39827831.77 39827831.85 39827831.93 0.1662 0.1177

Mars 104334-09-24 11:01 G 39828536.87 39828536.96 39828537.05 0.1639 0.1016

Jupiter 104335-10-17 02:09 G 39828924.40 39828924.59 39828924.77 0.0513 0.0063

Venus 104335-12-02 07:25 G 39828970.71 39828970.81 39828970.91 0.3653 0.0614

Moon 104336-10-08 01:25 G 39829281.40 39829281.56 39829281.73 0.2677 0.0167

Earth 104336-10-08 01:25 G 39829281.40 39829281.56 39829281.72 0.2684 0.0269 *

Saturn 104336-12-31 22:47 G 39829366.29 39829366.45 39829366.62 0.0265 0.0133

Saturn 104337-03-30 20:37 G 39829455.17 39829455.36 39829455.55 0.0266 0.0053

Saturn 104337-06-27 18:42 G 39829544.20 39829544.28 39829544.36 0.0267 0.0242

Earth 104340-04-06 02:09 G 39830557.48 39830557.59 39830557.69 0.2649 0.0507

Moon 104340-04-06 02:37 G 39830557.51 39830557.61 39830557.72 0.2647 0.0648 *

Venus 104341-06-16 22:47 G 39830994.37 39830994.45 39830994.53 0.3650 0.2332

Jupiter 104341-06-17 16:04 G 39830995.04 39830995.17 39830995.29 0.0513 0.0044

Mars 104343-04-15 16:47 G 39831662.07 39831662.20 39831662.33 0.1900 0.1236

Mars 104344-02-14 22:18 G 39831967.32 39831967.43 39831967.54 0.1644 0.0497

Pluto 104344-11-06 10:33 G 39832232.91 39832232.94 39832233.00 0.0084 0.0079

Pluto 104345-02-02 11:59 G 39832320.91 39832321.00 39832321.10 0.0084 0.0060

Pluto 104345-05-01 13:11 G 39832408.94 39832409.05 39832409.17 0.0084 0.0041

Pluto 104345-07-28 14:37 G 39832496.98 39832497.11 39832497.24 0.0084 0.0022

Pluto 104345-10-24 15:49 G 39832585.02 39832585.16 39832585.29 0.0084 0.0004

Pluto 104346-01-20 16:47 G 39832673.08 39832673.20 39832673.34 0.0084 0.0016

Pluto 104346-04-18 17:59 G 39832761.14 39832761.25 39832761.38 0.0083 0.0034

Pluto 104346-07-15 19:11 G 39832849.20 39832849.30 39832849.41 0.0083 0.0053

Pluto 104346-10-11 20:09 G 39832937.29 39832937.34 39832937.42 0.0083 0.0071

Jupiter 104347-08-04 22:04 G 39833234.28 39833234.42 39833234.57 0.0512 0.0299

Saturn 104350-08-12 17:59 G 39834338.20 39834338.25 39834338.30 0.0297 0.0269

Saturn 104350-11-09 06:13 G 39834426.63 39834426.76 39834426.88 0.0296 0.0095

Saturn 104351-02-05 18:13 G 39834515.13 39834515.26 39834515.38 0.0295 0.0077

Saturn 104351-05-05 05:59 G 39834603.68 39834603.75 39834603.82 0.0295 0.0245

Mars 104352-09-04 09:21 G 39835091.72 39835091.89 39835092.05 0.1891 0.0445

Jupiter 104353-04-05 20:23 G 39835305.23 39835305.35 39835305.48 0.0514 0.0118

Moon 104353-04-08 19:11 G 39835308.23 39835308.30 39835308.37 0.2640 0.1995

Earth 104353-04-08 19:11 G 39835308.23 39835308.30 39835308.36 0.2647 0.2028 *

Jupiter 104353-07-04 00:28 G 39835394.50 39835394.52 39835394.54 0.0511 0.0500

Mars 104353-07-07 09:35 G 39835397.79 39835397.90 39835398.02 0.1650 0.0059

Uranus 104358-09-02 06:57 G 39837280.74 39837280.79 39837280.86 0.0137 0.0129

Uranus 104358-11-29 14:23 G 39837368.99 39837369.10 39837369.24 0.0137 0.0102

Uranus 104359-02-25 22:04 G 39837457.27 39837457.42 39837457.60 0.0137 0.0075

Uranus 104359-05-25 05:59 G 39837545.57 39837545.75 39837545.93 0.0137 0.0047

Uranus 104359-08-21 13:40 G 39837633.88 39837634.07 39837634.26 0.0137 0.0019

Jupiter 104359-08-22 07:11 G 39837634.70 39837634.80 39837634.92 0.0514 0.0405

Uranus 104359-11-17 21:21 G 39837722.20 39837722.39 39837722.59 0.0137 0.0008

Uranus 104360-02-14 05:01 G 39837810.52 39837810.71 39837810.90 0.0137 0.0036

Earth 104360-04-01 20:52 G 39837858.31 39837858.37 39837858.42 0.2651 0.2244

Moon 104360-04-01 21:21 G 39837858.32 39837858.39 39837858.45 0.2654 0.2098 *

Uranus 104360-05-12 12:28 G 39837898.86 39837899.02 39837899.21 0.0137 0.0064

Uranus 104360-08-08 20:09 G 39837987.21 39837987.34 39837987.50 0.0137 0.0092

Uranus 104360-11-05 04:04 G 39838075.58 39838075.67 39838075.77 0.0136 0.0119

Mars 104362-11-27 21:06 G 39838828.27 39838828.38 39838828.48 0.1656 0.0575

Mars 104364-11-01 23:30 G 39839533.46 39839533.48 39839533.50 0.1634 0.1594

Jupiter 104365-01-23 00:57 G 39839615.43 39839615.54 39839615.65 0.0515 0.0277

Jupiter 104365-04-22 05:01 G 39839704.62 39839704.71 39839704.81 0.0512 0.0346

Saturn 104366-05-20 23:45 G 39840098.35 39840098.49 39840098.64 0.0266 0.0170

Saturn 104366-08-17 21:35 G 39840187.21 39840187.40 39840187.60 0.0266 0.0018

Saturn 104366-11-14 19:40 G 39840276.20 39840276.32 39840276.44 0.0267 0.0205

Neptune 104370-09-19 12:13 G 39841680.94 39841681.01 39841681.12 0.0089 0.0080

Neptune 104370-12-16 16:18 G 39841769.06 39841769.18 39841769.31 0.0090 0.0069

Neptune 104371-03-14 19:54 G 39841857.20 39841857.33 39841857.49 0.0090 0.0058

Jupiter 104371-06-10 03:06 G 39841944.45 39841944.63 39841944.80 0.0513 0.0161

Neptune 104371-06-10 23:45 G 39841945.34 39841945.49 39841945.67 0.0090 0.0048

Neptune 104371-09-07 03:49 G 39842033.48 39842033.66 39842033.84 0.0090 0.0037

Neptune 104371-12-04 07:25 G 39842121.63 39842121.81 39842122.01 0.0090 0.0026

Neptune 104372-03-01 11:16 G 39842209.78   39842209.97   39842210.17 0.0090 0.0016

Mars   104372-04-19 08:23 G 39842258.76   39842258.85   39842258.93 0.1662 0.1118

Neptune 104372-05-28 15:06 G 39842297.94   39842298.13   39842298.33 0.0090 0.0005

Neptune 104372-08-24 18:57 G 39842386.10   39842386.29   39842386.49 0.0090 0.0006

Neptune 104372-11-20 22:47 G 39842474.26   39842474.45   39842474.64 0.0090 0.0017

Neptune 104373-02-17 02:23 G 39842562.42   39842562.60   39842562.80 0.0090 0.0028

Earth   104373-04-04 13:54 G 39842608.97   39842609.08   39842609.18 0.2650 0.0719

Moon   104373-04-04 14:23 G 39842609.00   39842609.10   39842609.21 0.2647 0.0654 *

Neptune 104373-05-16 05:59 G 39842650.59   39842650.75   39842650.95 0.0090 0.0039

Neptune 104373-08-12 10:04 G 39842738.76   39842738.92   39842739.09 0.0090 0.0049

Neptune 104373-11-08 13:40 G 39842826.94   39842827.07   39842827.23 0.0090 0.0060

Neptune 104374-02-04 17:30 G 39842915.12   39842915.23   39842915.37 0.0090 0.0071

Mars   104374-03-25 10:47 G 39842963.87   39842963.95   39842964.04 0.1639 0.1081

Neptune 104374-05-03 21:35 G 39843003.32   39843003.40   39843003.49 0.0090 0.0081

Jupiter 104376-11-11 05:30 G 39843925.66   39843925.73   39843925.79 0.0515 0.0436

Jupiter 104377-02-08 09:35 G 39844014.79   39844014.90   39844015.02 0.0513 0.0192

Venus   104377-06-15 02:52 G 39844141.52   39844141.62   39844141.71 0.3723 0.2965

Saturn   104380-03-28 09:21 G 39845158.78   39845158.89   39845159.01 0.0296 0.0129

Saturn   104380-06-24 21:35 G 39845247.27   39845247.40   39845247.52 0.0296 0.0044

Saturn   104380-09-21 09:21 G 39845335.80   39845335.89   39845335.98 0.0295 0.0212

Venus   104381-06-08 22:18 G 39845596.35   39845596.43   39845596.51 0.3658 0.2305

Mars   104381-09-09 19:25 G 39845689.31   39845689.31   39845689.32 0.1668 0.1665

Moon   104382-10-09 06:42 G 39846083.62   39846083.78   39846083.94 0.2681 0.0741

Earth   104382-10-09 08:23 G 39846083.70   39846083.85   39846084.00 0.2684 0.1017 *

Mars   104382-10-14 17:45 G 39846089.13   39846089.24   39846089.36 0.1900 0.1401

Jupiter 104383-03-28 22:33 G 39846254.26   39846254.44   39846254.63 0.0513 0.0085

Mars   104383-08-15 22:18 G 39846394.32   39846394.43   39846394.54 0.1645 0.0559

Moon   104386-04-07 06:42 G 39847359.68   39847359.78   39847359.88 0.2642 0.0847

Earth   104386-04-07 06:42 G 39847359.68   39847359.78   39847359.89 0.2648 0.0819 *

Venus   104386-12-23 13:40 G 39847619.97   39847620.07   39847620.17 0.3655 0.0556

Jupiter 104388-11-27 14:23 G 39848324.98 39848325.10 39848325.23 0.0513 0.0041

Mars 104392-03-05 10:04 G 39849518.75 39849518.92 39849519.08 0.1891 0.0314

Venus 104392-07-08 04:47 G 39849643.61 39849643.70 39849643.80 0.3652 0.1208

Mars 104393-01-05 09:35 G 39849824.79 39849824.90 39849825.02 0.1650 0.0070

Jupiter 104395-01-14 19:11 G 39850564.15 39850564.30 39850564.44 0.0512 0.0314

Saturn 104395-10-07 22:47 G 39850830.36 39850830.45 39850830.57 0.0265 0.0220

Saturn 104396-01-04 20:37 G 39850919.18 39850919.36 39850919.56 0.0266 0.0036

Saturn 104396-04-02 18:42 G 39851008.12 39851008.28 39851008.44 0.0266 0.0153

Venus 104398-01-21 20:09 G 39851667.28 39851667.34 39851667.40 0.3649 0.2911

Moon 104399-04-09 23:16 G 39852110.41 39852110.47 39852110.53 0.2645 0.2199

Earth 104399-04-09 23:45 G 39852110.45 39852110.49 39852110.54 0.2647 0.2341 *

Jupiter 104400-09-15 18:42 G 39852635.16 39852635.28 39852635.41 0.0514 0.0124

Jupiter 104400-12-13 22:47 G 39852724.42 39852724.45 39852724.48 0.0511 0.0492

Uranus 104401-09-02 03:06 G 39852986.57 39852986.63 39852986.69 0.0141 0.0124

Uranus 104401-11-29 06:28 G 39853074.68 39853074.77 39853074.86 0.0141 0.0104

Uranus 104402-02-25 09:49 G 39853162.81 39853162.91 39853163.02 0.0141 0.0083

Uranus 104402-05-24 13:11 G 39853250.94 39853251.05 39853251.18 0.0141 0.0063

Mars 104402-05-28 20:52 G 39853255.26 39853255.37 39853255.48 0.1656 0.0510

Uranus 104402-08-20 16:47 G 39853339.07 39853339.20 39853339.33 0.0141 0.0042

Uranus 104402-11-16 20:09 G 39853427.21 39853427.34 39853427.47 0.0141 0.0022

Uranus 104403-02-12 23:45 G 39853515.35 39853515.49 39853515.62 0.0141 0.0005

Uranus 104403-05-12 03:06 G 39853603.50 39853603.63 39853603.76 0.0141 0.0019

Uranus 104403-08-08 06:28 G 39853691.64 39853691.77 39853691.90 0.0141 0.0040

Uranus 104403-11-04 09:49 G 39853779.79 39853779.91 39853780.03 0.0141 0.0060

Uranus 104404-01-31 13:11 G 39853867.95 39853868.05 39853868.16 0.0142 0.0081

Uranus 104404-04-28 16:33 G 39853956.11 39853956.19 39853956.29 0.0142 0.0101

Uranus 104404-07-25 19:54 G 39854044.27 39854044.33 39854044.40 0.0142 0.0122

Earth 104406-04-03 01:25 G 39854660.49 39854660.56 39854660.64 0.2651 0.1923

Moon 104406-04-03 01:54 G 39854660.51 39854660.58 39854660.66 0.2646 0.1860 *

Jupiter 104407-02-01 05:16 G 39854964.61 39854964.72 39854964.83 0.0514 0.0404

Saturn 104409-08-15 11:45 G 39855890.89 39855890.99 39855891.10 0.0297 0.0177

Saturn 104409-11-11 23:59 G 39855979.37 39855979.50 39855979.63 0.0296 0.0010

Saturn 104410-02-08 11:45 G 39856067.89 39856067.99 39856068.10 0.0295 0.0166

Mars 104411-10-19 08:09 G 39856685.76 39856685.84 39856685.93 0.1662 0.1052

Jupiter 104412-07-04 23:16 G 39856945.36 39856945.47 39856945.57 0.0514 0.0283

Jupiter 104412-10-02 03:21 G 39857034.55 39857034.64 39857034.73 0.0512 0.0339

Mars 104413-09-23 10:47 G 39857390.87 39857390.95 39857391.03 0.1639 0.1148

Moon 104415-10-07 03:49 G 39858134.62 39858134.66 39858134.70 0.2682 0.2591

Earth 104415-10-07 05:45 G 39858134.65 39858134.74 39858134.83 0.2682 0.2171 *

Jupiter 104418-11-20 00:42 G 39859274.35 39859274.53 39859274.70 0.0513 0.0155

Moon 104419-04-05 18:13 G 39859411.16 39859411.26 39859411.37 0.2644 0.0404

Earth 104419-04-05 18:28 G 39859411.17 39859411.27 39859411.38 0.2650 0.0395 *

Mars 104421-03-10 19:25 G 39860116.28 39860116.31 39860116.34 0.1668 0.1602

Mars 104422-04-14 18:42 G 39860516.18 39860516.28 39860516.38 0.1900 0.1549

Mars 104423-02-13 22:18 G 39860821.32 39860821.43 39860821.54 0.1644 0.0625

Jupiter 104424-04-23 03:35 G 39861255.59 39861255.65 39861255.71 0.0516 0.0446

Jupiter 104424-07-21 07:54 G 39861344.71 39861344.83 39861344.95 0.0513 0.0183

Saturn 104425-02-23 23:30 G 39861562.45 39861562.48 39861562.52 0.0265 0.0260

Saturn 104425-05-23 21:21 G 39861651.20 39861651.39 39861651.57 0.0266 0.0076

Saturn 104425-08-20 18:57 G 39861740.12 39861740.29 39861740.47 0.0267 0.0112

Venus 104428-07-05 17:59 G 39862790.11 39862790.25 39862790.39 0.3719 0.1755

Moon 104428-10-09 14:23 G 39862885.98 39862886.10 39862886.22 0.2689 0.1721

Earth 104428-10-09 15:35 G 39862886.03 39862886.15 39862886.27 0.2684 0.1769 *

Jupiter 104430-09-07 20:23 G 39863584.17 39863584.35 39863584.53 0.0512 0.0087

Mars 104431-09-04 11:01 G 39863945.79 39863945.96 39863946.13 0.1892 0.0147

Moon 104432-04-07 10:47 G 39864161.85 39864161.95 39864162.05 0.2646 0.0979

Earth 104432-04-07 11:30 G 39864161.88 39864161.98 39864162.08 0.2648 0.1132 *

Venus 104432-06-30 04:18 G 39864245.65 39864245.68 39864245.71 0.3660 0.3482

Mars 104432-07-06 09:35 G 39864251.78 39864251.90 39864252.02 0.1650 0.0095

Jupiter 104436-05-09 12:28 G 39865654.90 39865655.02 39865655.15 0.0513 0.0031

Venus 104438-01-13 19:40 G 39866269.23 39866269.32 39866269.41 0.3657 0.1703

Saturn 104439-01-02 15:06 G 39866623.04 39866623.13 39866623.22 0.0297 0.0211

Saturn 104439-04-01 03:06 G 39866711.51 39866711.63 39866711.76 0.0296 0.0039

Saturn 104439-06-28 15:06 G 39866800.02 39866800.13 39866800.25 0.0295 0.0133

Mars 104441-01-24 03:35 G 39867375.61 39867375.65 39867375.69 0.1882 0.1813

Mars 104441-11-26 20:52 G 39867682.26 39867682.37 39867682.48 0.1656 0.0442

Jupiter 104442-06-26 15:49 G 39867894.02 39867894.16 39867894.30 0.0512 0.0332

Uranus 104442-09-22 14:37 G 39867982.04 39867982.11 39867982.22 0.0137 0.0120

Uranus 104442-12-19 22:33 G 39868070.30 39868070.44 39868070.59 0.0137 0.0092

Uranus 104443-03-18 06:13 G 39868158.59 39868158.76 39868158.93 0.0137 0.0065

Uranus 104443-06-14 13:40 G 39868246.90 39868247.07 39868247.27 0.0137 0.0038

Venus 104443-07-30 11:01 G 39868292.86 39868292.96 39868293.06 0.3654 0.0070

Uranus 104443-09-10 21:35 G 39868335.21 39868335.40 39868335.60 0.0137 0.0010

Uranus 104443-12-08 05:16 G 39868423.53 39868423.72 39868423.91 0.0137 0.0018

Uranus 104444-03-05 12:42 G 39868511.86 39868512.03 39868512.22 0.0137 0.0046

Uranus 104444-06-01 20:37 G 39868600.20 39868600.36 39868600.53 0.0137 0.0073

Uranus 104444-08-29 04:04 G 39868688.55 39868688.67 39868688.81 0.0137 0.0101

Uranus 104444-11-25 11:59 G 39868776.94 39868777.00 39868777.07 0.0136 0.0128

Moon 104445-04-10 04:04 G 39868912.67 39868912.67 39868912.68 0.2653 0.2646

Jupiter 104448-02-26 17:16 G 39869965.10 39869965.22 39869965.35 0.0514 0.0124

Jupiter 104448-05-25 21:21 G 39870054.36 39870054.39 39870054.42 0.0511 0.0492

Venus 104449-02-12 02:09 G 39870316.51 39870316.59 39870316.68 0.3651 0.1793

Neptune 104451-01-17 11:59 G 39871021.00 39871021.00 39871021.01 0.0088 0.0088

Neptune 104451-04-15 13:11 G 39871109.01 39871109.05 39871109.11 0.0088 0.0081

Mars 104451-04-19 08:23 G 39871112.75 39871112.85 39871112.94 0.1662 0.0983

Neptune 104451-07-12 14:37 G 39871197.04 39871197.11 39871197.18 0.0088 0.0074

Neptune 104451-10-08 16:04 G 39871285.08 39871285.17 39871285.25 0.0088 0.0067

Neptune 104452-01-04 17:01 G 39871373.13 39871373.21 39871373.31 0.0088 0.0061

Neptune 104452-04-01 18:13 G 39871461.17 39871461.26 39871461.38 0.0088 0.0054

Moon 104452-04-03 05:59 G 39871462.67 39871462.75 39871462.83 0.2645 0.1687

Earth 104452-04-03 06:13 G 39871462.68 39871462.76 39871462.85 0.2651 0.1605 *

Neptune 104452-06-28 19:40 G 39871549.21 39871549.32 39871549.44 0.0088 0.0047

Neptune 104452-09-24 21:06 G 39871637.26 39871637.38 39871637.49 0.0088 0.0040

Neptune 104452-12-21 22:04 G 39871725.31 39871725.42 39871725.55 0.0088 0.0034

Neptune 104453-03-19 23:30 G 39871813.36 39871813.48 39871813.61 0.0088 0.0027

Mars 104453-03-24 10:47 G 39871817.88 39871817.95 39871818.03 0.1639 0.1216

Neptune 104453-06-16 00:42 G 39871901.40 39871901.53 39871901.66 0.0088 0.0020

Neptune 104453-09-12 01:54 G 39871989.45 39871989.58 39871989.72 0.0088 0.0014

Neptune 104453-12-09 03:21 G 39872077.51 39872077.64 39872077.77 0.0088 0.0006

Neptune 104454-03-07 04:33 G 39872165.56 39872165.69 39872165.82 0.0088 0.0000

Neptune 104454-06-03 05:45 G 39872253.61 39872253.74 39872253.87 0.0088 0.0007

Jupiter 104454-07-14 02:23 G 39872294.48 39872294.60 39872294.72 0.0514 0.0391

Venus 104454-08-28 17:30 G 39872340.20 39872340.23 39872340.25 0.3648 0.3492

Neptune 104454-08-30 06:57 G 39872341.66 39872341.79 39872341.92 0.0088 0.0014

Saturn 104454-10-10 20:09 G 39872383.17 39872383.34 39872383.51 0.0265 0.0128

Neptune 104454-11-26 08:09 G 39872429.72 39872429.84 39872429.97 0.0088 0.0021

Saturn 104455-01-07 17:59 G 39872472.06 39872472.25 39872472.44 0.0266 0.0058

Neptune 104455-02-22 09:21 G 39872517.77 39872517.89 39872518.02 0.0088 0.0028

Saturn 104455-04-06 15:49 G 39872561.09 39872561.16 39872561.23 0.0266 0.0246

Neptune 104455-05-21 10:47 G 39872605.83 39872605.95 39872606.07 0.0088 0.0034

Neptune 104455-08-17 11:59 G 39872693.89 39872694.00 39872694.12 0.0088 0.0041

Neptune 104455-11-13 13:11 G 39872781.94 39872782.05 39872782.16 0.0088 0.0048

Neptune 104456-02-09 14:09 G 39872870.00 39872870.09 39872870.21 0.0088 0.0055

Neptune 104456-05-07 15:35 G 39872958.07 39872958.15 39872958.25 0.0088 0.0061

Neptune 104456-08-03 16:47 G 39873046.13 39873046.20 39873046.29 0.0088 0.0068

Neptune 104456-10-30 17:59 G 39873134.19 39873134.25 39873134.33 0.0088 0.0075

Neptune 104457-01-26 19:25 G 39873222.27 39873222.31 39873222.36 0.0088 0.0081

Neptune 104457-04-24 20:52 G 39873310.37 39873310.37 39873310.37 0.0088 0.0088

Jupiter 104459-12-15 21:35 G 39874275.30 39874275.40 39874275.51 0.0514 0.0286

Jupiter 104460-03-14 01:40 G 39874364.48 39874364.57 39874364.67 0.0512 0.0336

Mars 104460-09-08 19:25 G 39874543.27 39874543.31 39874543.35 0.1668 0.1535

Moon 104461-10-07 11:59 G 39874936.87 39874937.00 39874937.13 0.2689 0.1555

Earth 104461-10-07 12:42 G 39874936.89 39874937.03 39874937.17 0.2682 0.1431 *

Mars 104461-10-13 19:40 G 39874943.25 39874943.32 39874943.39 0.1901 0.1711

Mars 104462-08-14 22:18 G 39875248.32 39875248.43 39875248.53 0.1644 0.0696

Moon 104465-04-05 22:33 G 39876213.33 39876213.44 39876213.55 0.2649 0.0147

Earth 104465-04-05 23:16 G 39876213.36 39876213.47 39876213.58 0.2649 0.0083 *

Jupiter 104466-05-01 22:33 G 39876604.27 39876604.44 39876604.62 0.0514 0.0156

Saturn 104468-05-21 17:01 G 39877355.15 39877355.21 39877355.26 0.0297 0.0266

Saturn 104468-08-18 05:16 G 39877443.59 39877443.72 39877443.84 0.0297 0.0092

Saturn 104468-11-14 17:16 G 39877532.09 39877532.22 39877532.34 0.0296 0.0081

Saturn 104469-02-11 05:01 G 39877620.65 39877620.71 39877620.78 0.0295 0.0250

Mars 104471-03-05 12:13 G 39878372.84 39878373.01 39878373.18 0.1892 0.0021

Jupiter 104471-10-04 02:09 G 39878585.52 39878585.59 39878585.65 0.0515 0.0446

Jupiter 104472-01-01 06:13 G 39878674.65 39878674.76 39878674.88 0.0513 0.0182

Mars 104472-01-05 09:35 G 39878678.78 39878678.90 39878679.01 0.1650 0.0164

Earth 104474-10-10 22:18 G 39879688.38 39879688.43 39879688.49 0.2684 0.2503

Moon 104474-10-10 23:45 G 39879688.48 39879688.49 39879688.49 0.2690 0.2686 *

Jupiter 104478-02-17 18:28 G 39880914.08 39880914.27 39880914.45 0.0512 0.0087

Moon 104478-04-08 16:04 G 39880964.08 39880964.17 39880964.26 0.2654 0.1376

Earth 104478-04-08 16:18 G 39880964.09 39880964.18 39880964.27 0.2648 0.1452 *

Mars 104480-07-25 04:33 G 39881802.61 39881802.69 39881802.77 0.1883 0.1665

Mars 104481-05-27 20:52 G 39882109.26 39882109.37 39882109.48 0.1656 0.0375

Jupiter 104483-10-20 10:47 G 39882984.83 39882984.95 39882985.08 0.0514 0.0025

Saturn 104484-02-27 19:54 G 39883115.20 39883115.33 39883115.49 0.0265 0.0174

Saturn 104484-05-26 17:59 G 39883204.06 39883204.25 39883204.44 0.0266 0.0013

Saturn 104484-08-23 15:35 G 39883293.04 39883293.15 39883293.29 0.0267 0.0201

Venus 104485-02-09 20:37 G 39883463.20 39883463.36 39883463.52 0.3720 0.0333

Uranus 104485-06-26 06:42 G 39883599.77 39883599.78 39883599.80 0.0141 0.0140

Uranus 104485-09-22 10:04 G 39883687.86 39883687.92 39883688.00 0.0141 0.0120

Uranus 104485-12-19 13:40 G 39883775.98 39883776.07 39883776.16 0.0141 0.0099

Uranus 104486-03-17 17:01 G 39883864.11 39883864.21 39883864.32 0.0141 0.0079

Uranus 104486-06-13 20:37 G 39883952.24 39883952.36 39883952.48 0.0141 0.0058

Uranus 104486-09-09 23:59 G 39884040.37 39884040.50 39884040.63 0.0141 0.0038

Uranus 104486-12-07 03:21 G 39884128.51 39884128.64 39884128.77 0.0141 0.0017

Uranus 104487-03-05 06:42 G 39884216.65 39884216.78 39884216.92 0.0141 0.0006

Uranus 104487-06-01 10:18 G 39884304.80 39884304.93 39884305.06 0.0141 0.0024

Uranus 104487-08-28 13:40 G 39884392.94 39884393.07 39884393.19 0.0141 0.0044

Uranus 104487-11-24 17:01 G 39884481.09 39884481.21 39884481.33 0.0142 0.0065

Uranus 104488-02-20 20:09 G 39884569.25 39884569.34 39884569.46 0.0142 0.0086

Uranus 104488-05-18 23:45 G 39884657.41 39884657.49 39884657.58 0.0142 0.0106

Uranus 104488-08-15 03:21 G 39884745.58 39884745.64 39884745.69 0.0142 0.0126

Venus 104489-02-04 01:40 G 39884918.51 39884918.57 39884918.63 0.3659 0.2870

Jupiter 104489-12-06 14:23 G 39885223.96 39885224.10 39885224.24 0.0512 0.0324

Mars 104490-10-18 08:09 G 39885539.75 39885539.84 39885539.94 0.1662 0.0919

Mars 104492-09-22 10:47 G 39886244.88 39886244.95 39886245.02 0.1639 0.1281

Venus 104494-08-20 17:01 G 39886942.11 39886942.21 39886942.31 0.3656 0.1100

Jupiter 104495-08-08 15:35 G 39887295.03 39887295.15 39887295.27 0.0514 0.0131

Jupiter 104495-11-05 19:25 G 39887384.28 39887384.31 39887384.35 0.0511 0.0486

Saturn 104498-01-05 07:54 G 39888175.72 39888175.83 39888175.95 0.0297 0.0131

Pluto 104498-02-28 08:23 G 39888229.81 39888229.85 39888229.92 0.0060 0.0057

Saturn 104498-04-03 20:09 G 39888264.21 39888264.34 39888264.47 0.0296 0.0042

Moon 104498-04-04 10:18 G 39888264.84 39888264.93 39888265.02 0.2652 0.1372

Earth 104498-04-04 11:01 G 39888264.86 39888264.96 39888265.05 0.2650 0.1296 *

Pluto 104498-05-27 09:49 G 39888317.80 39888317.91 39888318.04 0.0060 0.0047

Saturn 104498-07-01 08:09 G 39888352.75 39888352.84 39888352.93 0.0295 0.0212

Pluto 104498-08-23 10:47 G 39888405.82 39888405.95 39888406.13 0.0060 0.0038

Pluto 104498-11-19 12:13 G 39888493.86 39888494.01 39888494.20 0.0060 0.0028

Pluto 104499-02-15 13:40 G 39888581.90 39888582.07 39888582.27 0.0060 0.0018

Pluto 104499-05-14 15:06 G 39888669.94 39888670.13 39888670.33 0.0060 0.0008

Pluto 104499-08-10 16:33 G 39888758.00 39888758.19 39888758.38 0.0060 0.0002

Pluto 104499-11-06 17:45 G 39888846.05 39888846.24 39888846.43 0.0060 0.0012

Pluto 104500-02-02 18:42 G 39888934.12 39888934.28 39888934.48 0.0060 0.0023

Venus 104500-03-06 08:23 G 39888965.75 39888965.85 39888965.95 0.3653 0.0652

Mars 104500-03-10 19:25 G 39888970.26 39888970.31 39888970.36 0.1668 0.1469

Pluto 104500-05-01 19:54 G 39889022.19 39889022.33 39889022.52 0.0060 0.0033

Pluto 104500-07-28 21:49 G 39889110.27 39889110.41 39889110.55 0.0060 0.0042

Pluto 104500-10-24 23:01 G 39889198.37 39889198.46 39889198.56 0.0060 0.0052

Mars 104501-04-14 20:37 G 39889370.33 39889370.36 39889370.39 0.1901 0.1867

Jupiter 104501-12-24 23:30 G 39889624.36 39889624.48 39889624.61 0.0514 0.0378

Mars 104502-02-13 22:04 G 39889675.32 39889675.42 39889675.53 0.1644 0.0761

Venus 104505-09-19 23:30 G 39890989.41 39890989.48 39890989.56 0.3650 0.2379

Jupiter 104507-05-28 20:23 G 39891605.25 39891605.35 39891605.46 0.0514 0.0281

Jupiter 104507-08-26 00:28 G 39891694.43 39891694.52 39891694.62 0.0512 0.0340

Earth 104507-10-09 19:40 G 39891739.17 39891739.32 39891739.48 0.2683 0.0688

Moon 104507-10-09 21:21 G 39891739.23 39891739.39 39891739.55 0.2686 0.0319 *

Mars 104510-09-04 12:42 G 39892799.86 39892800.03 39892800.20 0.1892 0.0150

Moon 104511-04-08 03:49 G 39893015.55 39893015.66 39893015.76 0.2655 0.0183

Earth 104511-04-08 03:49 G 39893015.56 39893015.66 39893015.77 0.2649 0.0262 *

Mars 104511-07-07 09:35 G 39893105.78 39893105.90 39893106.01 0.1650 0.0233

Saturn 104513-07-17 18:42 G 39893847.19 39893847.28 39893847.38 0.0264 0.0227

Jupiter 104513-10-12 19:54 G 39893934.16 39893934.33 39893934.51 0.0514 0.0147

Saturn 104513-10-14 16:33 G 39893936.00 39893936.19 39893936.38 0.0265 0.0043

Saturn 104514-01-11 14:09 G 39894024.93 39894025.09 39894025.26 0.0266 0.0143

Jupiter 104519-03-17 00:42 G 39895915.47 39895915.53 39895915.60 0.0515 0.0443

Jupiter 104519-06-14 05:01 G 39896004.59 39896004.71 39896004.83 0.0512 0.0184

Mars 104520-01-25 05:45 G 39896229.64 39896229.74 39896229.84 0.1883 0.1494

Mars 104520-11-26 20:52 G 39896536.26 39896536.37 39896536.48 0.1655 0.0307

Earth 104524-04-09 20:52 G 39897766.30 39897766.37 39897766.45 0.2648 0.1765

Moon 104524-04-09 21:21 G 39897766.32 39897766.39 39897766.47 0.2653 0.1910 *

Jupiter 104525-07-31 16:33 G 39898244.01 39898244.19 39898244.37 0.0513 0.0083

Uranus 104526-10-13 22:33 G 39898683.34 39898683.44 39898683.57 0.0137 0.0111

Uranus 104527-01-10 06:28 G 39898771.62 39898771.77 39898771.93 0.0137 0.0083

Uranus 104527-04-08 13:54 G 39898859.91 39898860.08 39898860.27 0.0137 0.0056

Saturn 104527-05-26 09:21 G 39898907.80 39898907.89 39898907.99 0.0297 0.0191

Uranus 104527-07-05 21:49 G 39898948.22 39898948.41 39898948.60 0.0137 0.0028

Saturn 104527-08-22 21:35 G 39898996.27 39898996.40 39898996.53 0.0297 0.0017

Uranus 104527-10-02 05:30 G 39899036.53 39899036.73 39899036.92 0.0137 0.0001

Saturn 104527-11-19 09:35 G 39899084.79 39899084.90 39899085.01 0.0296 0.0154

Uranus 104527-12-29 13:11 G 39899124.86 39899125.05 39899125.24 0.0137 0.0027

Uranus 104528-03-26 20:37 G 39899213.19 39899213.36 39899213.54 0.0137 0.0054

Uranus 104528-06-23 04:18 G 39899301.53 39899301.68 39899301.84 0.0137 0.0082

Uranus 104528-09-19 11:45 G 39899389.89 39899389.99 39899390.12 0.0137 0.0110

Mars 104530-04-19 08:09 G 39899966.74 39899966.84 39899966.94 0.1661 0.0854

Jupiter 104531-04-02 09:35 G 39900314.78 39900314.90 39900315.03 0.0513 0.0030

Earth 104531-04-03 22:33 G 39900316.41 39900316.44 39900316.47 0.2651 0.2511

Mars 104532-03-24 10:47 G 39900671.88 39900671.95 39900672.01 0.1639 0.1348

Neptune 104535-03-21 06:28 G 39901763.74 39901763.77 39901763.84 0.0090 0.0087

Neptune 104535-06-17 10:33 G 39901851.84 39901851.94 39901852.05 0.0090 0.0076

Neptune 104535-09-13 13:54 G 39901939.97 39901940.08 39901940.24 0.0090 0.0066

Neptune 104535-12-10 17:59 G 39902028.11 39902028.25 39902028.41 0.0090 0.0055

Neptune 104536-03-07 22:04 G 39902116.25 39902116.42 39902116.59 0.0090 0.0044

Neptune 104536-06-04 01:25 G 39902204.39 39902204.56 39902204.76 0.0090 0.0034

Neptune 104536-08-31 05:30 G 39902292.54 39902292.73 39902292.92 0.0090 0.0023

Neptune 104536-11-27 09:21 G 39902380.70 39902380.89 39902381.09 0.0090 0.0012

Neptune 104537-02-23 13:11 G 39902468.85 39902469.05 39902469.25 0.0090 0.0001

Jupiter 104537-05-19 12:42 G 39902553.89 39902554.03 39902554.17 0.0512 0.0318

Neptune 104537-05-22 16:47 G 39902557.01 39902557.20 39902557.40 0.0090 0.0010

Neptune 104537-08-18 20:37 G 39902645.17 39902645.36 39902645.56 0.0090 0.0020

Neptune 104537-11-15 00:28 G 39902733.34 39902733.52 39902733.71 0.0090 0.0031

Neptune 104538-02-11 04:04 G 39902821.51 39902821.67 39902821.86 0.0090 0.0042

Neptune 104538-05-10 07:40 G 39902909.68 39902909.82 39902910.00 0.0090 0.0053

Neptune 104538-08-06 11:59 G 39902997.86 39902998.00 39902998.14 0.0090 0.0063

Neptune 104538-11-02 15:35 G 39903086.05 39903086.15 39903086.27 0.0090 0.0074

Neptune 104539-01-29 19:11 G 39903174.26 39903174.30 39903174.38 0.0090 0.0085

Mars 104539-09-09 19:25 G 39903397.25 39903397.31 39903397.37 0.1668 0.1405

Mars 104541-08-14 22:04 G 39904102.32 39904102.42 39904102.52 0.1644 0.0829

Venus 104541-09-17 23:30 G 39904136.36 39904136.48 39904136.60 0.3722 0.2480

Jupiter 104543-01-19 14:09 G 39904624.97 39904625.09 39904625.21 0.0514 0.0132

Saturn 104543-03-03 15:49 G 39904667.98 39904668.16 39904668.34 0.0265 0.0093

Jupiter 104543-04-18 18:13 G 39904714.22 39904714.26 39904714.29 0.0512 0.0486

Saturn 104543-05-31 13:25 G 39904756.89 39904757.06 39904757.25 0.0266 0.0093

Moon 104544-04-05 15:35 G 39905067.05 39905067.15 39905067.25 0.2657 0.0964

Earth 104544-04-05 15:35 G 39905067.05 39905067.15 39905067.25 0.2650 0.0981 *

Venus 104545-09-11 23:01 G 39905591.39 39905591.46 39905591.54 0.3658 0.2260

Jupiter 104549-06-05 22:18 G 39906954.32 39906954.43 39906954.55 0.0514 0.0393

Mars 104550-03-05 14:09 G 39907226.92 39907227.09 39907227.25 0.1892 0.0331

Mars 104551-01-05 09:35 G 39907532.78 39907532.90 39907533.01 0.1650 0.0303

Venus 104551-03-28 14:23 G 39907615.00 39907615.10 39907615.21 0.3655 0.0511

Earth 104553-10-10 02:52 G 39908541.45 39908541.62 39908541.78 0.2683 0.0090

Moon 104553-10-10 04:18 G 39908541.52 39908541.68 39908541.85 0.2679 0.0295 *

Jupiter 104554-11-07 18:57 G 39908935.18 39908935.29 39908935.39 0.0515 0.0284

Jupiter 104555-02-04 23:01 G 39909024.37 39909024.46 39909024.55 0.0512 0.0337

Venus 104556-10-11 05:45 G 39909638.65 39909638.74 39909638.84 0.3653 0.1250

Saturn 104556-10-12 11:59 G 39909639.93 39909640.00 39909640.08 0.0297 0.0234

Saturn 104557-01-09 00:13 G 39909728.38 39909728.51 39909728.64 0.0297 0.0060

Saturn 104557-04-07 12:13 G 39909816.89 39909817.01 39909817.13 0.0296 0.0113

Earth 104557-04-08 08:37 G 39909817.76 39909817.86 39909817.97 0.2649 0.0551

Moon 104557-04-08 09:21 G 39909817.78 39909817.89 39909817.99 0.2652 0.0617 *

Saturn 104557-07-05 00:13 G 39909905.48 39909905.51 39909905.55 0.0295 0.0282

Mars 104559-07-26 06:28 G 39910656.65 39910656.77 39910656.88 0.1883 0.1363

Mars 104560-05-27 20:52 G 39910963.25 39910963.37 39910963.48 0.1656 0.0242

Jupiter 104561-03-24 17:30 G 39911264.05 39911264.23 39911264.41 0.0514 0.0140

Venus 104562-04-26 21:06 G 39911662.32 39911662.38 39911662.43 0.3650 0.2966

Jupiter 104566-08-26 23:45 G 39913245.42 39913245.49 39913245.56 0.0515 0.0434

Jupiter 104566-11-24 04:04 G 39913334.55 39913334.67 39913334.79 0.0512 0.0192

Uranus 104569-07-17 13:40 G 39914301.05 39914301.07 39914301.10 0.0141 0.0137

Uranus 104569-10-13 17:16 G 39914389.14 39914389.22 39914389.29 0.0141 0.0116

Mars 104569-10-18 08:09 G 39914393.74 39914393.84 39914393.94 0.1661 0.0783

Uranus 104570-01-09 20:37 G 39914477.26 39914477.36 39914477.46 0.0141 0.0096

Uranus 104570-04-07 23:59 G 39914565.39 39914565.50 39914565.61 0.0141 0.0076

Earth 104570-04-11 01:40 G 39914568.51 39914568.57 39914568.64 0.2647 0.2077

Moon 104570-04-11 02:09 G 39914568.54 39914568.59 39914568.65 0.2644 0.2190 *

Uranus 104570-07-05 03:21 G 39914653.52 39914653.64 39914653.77 0.0141 0.0055

Uranus 104570-10-01 06:57 G 39914741.66 39914741.79 39914741.92 0.0141 0.0035

Uranus 104570-12-28 10:18 G 39914829.80 39914829.93 39914830.06 0.0141 0.0014

Uranus 104571-03-26 13:40 G 39914917.94 39914918.07 39914918.20 0.0141 0.0007

Uranus 104571-06-22 17:01 G 39915006.09 39915006.21 39915006.34 0.0141 0.0027

Uranus 104571-09-18 20:23 G 39915094.23 39915094.35 39915094.48 0.0141 0.0048

Mars 104571-09-23 10:47 G 39915098.89 39915098.95 39915099.00 0.1639 0.1418

Uranus 104571-12-15 23:59 G 39915182.38 39915182.50 39915182.61 0.0142 0.0068

Uranus 104572-03-13 03:06 G 39915270.54 39915270.63 39915270.74 0.0142 0.0089

Uranus 104572-06-09 06:42 G 39915358.70 39915358.78 39915358.87 0.0142 0.0109

Saturn 104572-07-20 14:23 G 39915399.94 39915400.10 39915400.25 0.0264 0.0149

Uranus 104572-09-05 10:04 G 39915446.87 39915446.92 39915446.98 0.0142 0.0129

Saturn 104572-10-17 11:59 G 39915488.81 39915489.00 39915489.19 0.0265 0.0036

Jupiter 104573-01-10 14:09 G 39915573.91 39915574.09 39915574.27 0.0513 0.0088

Saturn 104573-01-14 09:49 G 39915577.80 39915577.91 39915578.01 0.0266 0.0222

Moon 104577-04-04 03:21 G 39917118.58 39917118.64 39917118.70 0.2658 0.2152

Earth 104577-04-04 03:21 G 39917118.58 39917118.64 39917118.70 0.2651 0.2197 *

Jupiter 104578-09-12 08:37 G 39917644.73 39917644.86 39917644.99 0.0513 0.0036

Mars 104579-03-10 19:11 G 39917824.24 39917824.30 39917824.37 0.1667 0.1340

Mars 104581-02-12 22:04 G 39918529.33 39918529.42 39918529.52 0.1644 0.0896

Jupiter 104584-10-29 11:01 G 39919883.81 39919883.96 39919884.11 0.0512 0.0312

Saturn 104586-05-29 01:11 G 39920460.44 39920460.55 39920460.67 0.0297 0.0127

Saturn 104586-08-25 13:25 G 39920548.93 39920549.06 39920549.18 0.0296 0.0047

Saturn 104586-11-22 01:11 G 39920637.47 39920637.55 39920637.64 0.0296 0.0218

Mars 104589-09-03 15:06 G 39921653.96 39921654.13 39921654.29 0.1892 0.0485

Earth 104590-04-06 20:23 G 39921869.24 39921869.35 39921869.45 0.2650 0.0665

Moon 104590-04-06 20:52 G 39921869.27 39921869.37 39921869.48 0.2652 0.0603 *

Jupiter 104590-07-01 13:11 G 39921954.92 39921955.05 39921955.17 0.0514 0.0121

Mars 104590-07-06 09:21 G 39921959.78 39921959.89 39921960.01 0.1649 0.0365

Jupiter 104590-09-28 17:01 G 39922044.19 39922044.21 39922044.24 0.0511 0.0495

Venus 104592-10-08 14:37 G 39922784.98 39922785.11 39922785.24 0.3718 0.2185

Pluto 104593-05-28 18:28 G 39923017.20 39923017.27 39923017.33 0.0084 0.0074

Pluto 104593-08-24 19:25 G 39923105.22 39923105.31 39923105.42 0.0084 0.0055

Pluto 104593-11-20 20:37 G 39923193.25 39923193.36 39923193.49 0.0084 0.0036

Pluto 104594-02-16 22:04 G 39923281.29 39923281.42 39923281.55 0.0084 0.0017

Pluto 104594-05-15 23:16 G 39923369.33 39923369.47 39923369.60 0.0084 0.0002

Pluto 104594-08-12 00:13 G 39923457.39 39923457.51 39923457.65 0.0084 0.0021

Pluto 104594-11-08 01:40 G 39923545.45 39923545.57 39923545.68 0.0083 0.0039

Pluto 104595-02-04 02:37 G 39923633.52 39923633.61 39923633.71 0.0083 0.0057

Pluto 104595-05-03 03:49 G 39923721.61 39923721.66 39923721.72 0.0083 0.0076

Venus 104596-10-03 05:01 G 39924240.68 39924240.71 39924240.75 0.3661 0.3431

Jupiter 104596-11-15 21:06 G 39924284.27 39924284.38 39924284.50 0.0514 0.0404

Mars 104599-01-24 07:25 G 39925083.68 39925083.81 39925083.94 0.1883 0.1202

Moon 104599-10-11 09:06 G 39925343.72 39925343.88 39925344.04 0.2678 0.0599

Earth 104599-10-11 09:49 G 39925343.76 39925343.91 39925344.07 0.2683 0.0828 *

Mars 104599-11-26 20:52 G 39925390.25 39925390.37 39925390.48 0.1655 0.0179

Saturn 104601-12-08 12:57 G 39926131.92 39926132.04 39926132.16 0.0265 0.0204

Saturn 104602-03-07 10:33 G 39926220.75 39926220.94 39926221.13 0.0265 0.0021

Venus 104602-04-19 20:37 G 39926264.27 39926264.36 39926264.45 0.3658 0.1648

Jupiter 104602-04-20 17:30 G 39926265.13 39926265.23 39926265.34 0.0515 0.0281

Saturn 104602-06-04 08:23 G 39926309.70 39926309.85 39926310.00 0.0266 0.0166

Jupiter 104602-07-18 21:49 G 39926354.31 39926354.41 39926354.50 0.0512 0.0341

Earth 104603-04-10 13:25 G 39926619.96 39926620.06 39926620.16 0.2649 0.0866

Moon 104603-04-10 13:54 G 39926619.98 39926620.08 39926620.18 0.2644 0.1007 *

Venus 104607-11-03 11:59 G 39928287.89 39928288.00 39928288.10 0.3655 0.0185

Jupiter 104608-09-04 17:01 G 39928594.04 39928594.21 39928594.39 0.0513 0.0165

Mars 104609-04-19 08:09 G 39928820.73 39928820.84 39928820.94 0.1661 0.0724

Uranus 104610-08-07 22:33 G 39929296.40 39929296.44 39929296.52 0.0137 0.0130

Uranus 104610-11-04 06:28 G 39929384.65 39929384.77 39929384.90 0.0137 0.0102

Uranus 104611-01-31 13:54 G 39929472.93 39929473.08 39929473.25 0.0137 0.0075

Mars 104611-03-25 10:33 G 39929525.90 39929525.94 39929525.99 0.1638 0.1485

Uranus 104611-04-29 21:35 G 39929561.23 39929561.40 39929561.59 0.0137 0.0048

Uranus 104611-07-27 05:30 G 39929649.53 39929649.73 39929649.92 0.0137 0.0020

Uranus 104611-10-23 12:57 G 39929737.85 39929738.04 39929738.24 0.0137 0.0008

Uranus 104612-01-19 20:37 G 39929826.18 39929826.36 39929826.55 0.0137 0.0035

Uranus 104612-04-17 04:04 G 39929914.51 39929914.67 39929914.85 0.0137 0.0063

Uranus 104612-07-14 11:59 G 39930002.86 39930003.00 39930003.15 0.0137 0.0090

Uranus 104612-10-10 19:25 G 39930091.22 39930091.31 39930091.42 0.0137 0.0118

Venus 104613-05-19 03:06 G 39930311.54 39930311.63 39930311.72 0.3652 0.1840

Jupiter 104614-02-06 22:18 G 39930575.37 39930575.43 39930575.50 0.0515 0.0433

Jupiter 104614-05-07 02:37 G 39930664.50 39930664.61 39930664.73 0.0513 0.0194

Neptune 104615-10-16 11:45 G 39931191.96 39931191.99 39931192.02 0.0088 0.0085

Saturn 104615-10-17 03:21 G 39931192.54 39931192.64 39931192.75 0.0297 0.0175

Neptune 104616-01-12 12:42 G 39931279.99 39931280.03 39931280.10 0.0088 0.0079

Saturn 104616-01-13 15:35 G 39931281.02 39931281.15 39931281.28 0.0296 0.0004

Neptune 104616-04-09 14:09 G 39931368.02 39931368.09 39931368.17 0.0088 0.0072

Saturn 104616-04-11 03:35 G 39931369.55 39931369.65 39931369.76 0.0296 0.0171

Moon 104616-04-12 06:13 G 39931370.71 39931370.76 39931370.81 0.2641 0.2285

Earth 104616-04-12 06:28 G 39931370.73 39931370.77 39931370.81 0.2647 0.2392 *

Neptune 104616-07-06 15:21 G 39931456.06 39931456.14 39931456.24 0.0088 0.0065

Neptune 104616-10-02 16:47 G 39931544.11 39931544.20 39931544.30 0.0088 0.0058

Neptune 104616-12-29 17:59 G 39931632.15 39931632.25 39931632.36 0.0088 0.0051

Neptune 104617-03-27 19:25 G 39931720.20 39931720.31 39931720.42 0.0088 0.0044

Neptune 104617-06-23 20:37 G 39931808.24 39931808.36 39931808.48 0.0088 0.0038

Neptune 104617-09-19 21:49 G 39931896.29 39931896.41 39931896.54 0.0088 0.0031

Neptune 104617-12-16 23:16 G 39931984.34 39931984.47 39931984.59 0.0088 0.0024

Neptune 104618-03-15 00:28 G 39932072.39 39932072.52 39932072.65 0.0088 0.0017

Neptune 104618-06-11 01:40 G 39932160.44 39932160.57 39932160.70 0.0088 0.0011

Neptune 104618-09-07 02:52 G 39932248.49 39932248.62 39932248.76 0.0088 0.0005

Mars 104618-09-09 19:25 G 39932251.23 39932251.31 39932251.38 0.1667 0.1271

Venus 104618-12-02 18:13 G 39932335.24 39932335.26 39932335.29 0.3649 0.3542

Neptune 104618-12-04 04:18 G 39932336.54 39932336.68 39932336.81 0.0088 0.0004

Neptune 104619-03-02 05:30 G 39932424.60 39932424.73 39932424.86 0.0088 0.0010

Neptune 104619-05-29 06:42 G 39932512.65 39932512.78 39932512.91 0.0088 0.0017

Neptune 104619-08-25 07:54 G 39932600.71 39932600.83 39932600.96 0.0088 0.0023

Neptune 104619-11-21 09:21 G 39932688.76 39932688.89 39932689.01 0.0088 0.0030

Neptune 104620-02-17 10:18 G 39932776.82 39932776.93 39932777.06 0.0088 0.0037

Neptune 104620-05-15 11:30 G 39932864.88 39932864.98 39932865.10 0.0088 0.0044

Jupiter 104620-06-23 12:13 G 39932903.82 39932904.01 39932904.19 0.0513 0.0089

Neptune 104620-08-11 12:57 G 39932952.94 39932953.04 39932953.15 0.0088 0.0050

Mars 104620-08-14 22:04 G 39932956.33 39932956.42 39932956.51 0.1644 0.0962

Neptune 104620-11-07 14:09 G 39933041.00 39933041.09 39933041.19 0.0088 0.0057

Neptune 104621-02-03 15:21 G 39933129.06 39933129.14 39933129.24 0.0088 0.0064

Neptune 104621-05-02 16:47 G 39933217.12 39933217.20 39933217.28 0.0088 0.0070

Neptune 104621-07-29 17:45 G 39933305.19 39933305.24 39933305.31 0.0088 0.0077

Neptune 104621-10-25 18:57 G 39933393.27 39933393.29 39933393.34 0.0088 0.0084

Earth 104623-04-06 07:54 G 39933920.76 39933920.83 39933920.91 0.2651 0.1887

Moon 104623-04-06 08:37 G 39933920.78 39933920.86 39933920.94 0.2653 0.1737 *

Jupiter 104626-02-23 07:54 G 39934974.70 39934974.83 39934974.95 0.0513 0.0051

Mars 104629-03-05 15:35 G 39936080.99 39936081.15 39936081.31 0.1893 0.0624

Mars 104630-01-05 09:21 G 39936386.78 39936386.89 39936387.01 0.1649 0.0436

Saturn 104631-04-27 11:16 G 39936863.95 39936863.97 39936864.01 0.0264 0.0260

Saturn 104631-07-25 08:52 G 39936952.69 39936952.87 39936953.06 0.0264 0.0078

Saturn 104631-10-22 06:28 G 39937041.60 39937041.77 39937041.95 0.0265 0.0107

Jupiter 104632-04-11 08:52 G 39937213.73 39937213.87 39937214.02 0.0512 0.0313

Moon 104632-10-09 05:59 G 39937394.70 39937394.75 39937394.80 0.2676 0.2529

Earth 104632-10-09 07:11 G 39937394.72 39937394.80 39937394.87 0.2682 0.2362 *

Earth 104636-04-08 00:57 G 39938671.44 39938671.54 39938671.65 0.2650 0.0363

Moon 104636-04-08 01:25 G 39938671.45 39938671.56 39938671.67 0.2644 0.0319 *

Jupiter 104637-12-12 12:28 G 39939284.89 39939285.02 39939285.14 0.0513 0.0108

Jupiter 104638-03-11 16:18 G 39939374.17 39939374.18 39939374.19 0.0511 0.0507

Mars 104638-07-26 08:37 G 39939510.72 39939510.86 39939511.00 0.1884 0.1040

Mars 104639-05-28 20:52 G 39939817.25 39939817.37 39939817.48 0.1655 0.0127

Jupiter 104644-04-28 19:54 G 39941614.22 39941614.33 39941614.44 0.0514 0.0416

Saturn 104645-03-05 04:04 G 39941924.60 39941924.67 39941924.74 0.0298 0.0247

Saturn 104645-06-01 16:18 G 39942013.05 39942013.18 39942013.31 0.0297 0.0072

Saturn 104645-08-29 04:18 G 39942101.56 39942101.68 39942101.80 0.0296 0.0102

Moon 104645-10-12 14:52 G 39942145.98 39942146.12 39942146.26 0.2685 0.1301

Earth 104645-10-12 16:47 G 39942146.07 39942146.20 39942146.33 0.2684 0.1567 *

Saturn 104645-11-25 16:18 G 39942190.13 39942190.18 39942190.23 0.0296 0.0272

Mars 104648-10-18 07:54 G 39943247.73 39943247.83 39943247.94 0.1661 0.0656

Moon 104649-04-10 17:45 G 39943422.14 39943422.24 39943422.34 0.2643 0.1150

Earth 104649-04-10 18:13 G 39943422.16 39943422.26 39943422.35 0.2648 0.1189 *

Venus 104649-05-16 17:30 G 39943458.07 39943458.23 39943458.39 0.3719 0.0101

Jupiter 104649-09-30 17:01 G 39943595.10 39943595.21 39943595.32 0.0514 0.0264

Jupiter 104649-12-28 21:06 G 39943684.29 39943684.38 39943684.47 0.0512 0.0356

Mars 104650-09-23 10:33 G 39943952.91 39943952.94 39943952.98 0.1638 0.1553

Venus 104653-05-11 02:37 G 39944913.54 39944913.61 39944913.67 0.3660 0.2808

Uranus 104653-08-07 20:52 G 39945002.33 39945002.37 39945002.42 0.0141 0.0132

Uranus 104653-11-04 00:13 G 39945090.44 39945090.51 39945090.60 0.0141 0.0112

Uranus 104654-01-31 03:49 G 39945178.56 39945178.66 39945178.76 0.0141 0.0091

Uranus 104654-04-29 07:11 G 39945266.69 39945266.80 39945266.92 0.0141 0.0071

Uranus 104654-07-26 10:33 G 39945354.82 39945354.94 39945355.07 0.0141 0.0051

Uranus 104654-10-22 14:09 G 39945442.96 39945443.09 39945443.22 0.0141 0.0030

Uranus 104655-01-18 17:30 G 39945531.10 39945531.23 39945531.36 0.0141 0.0010

Uranus 104655-04-16 20:52 G 39945619.24 39945619.37 39945619.51 0.0141 0.0012

Uranus 104655-07-14 00:13 G 39945707.39 39945707.51 39945707.64 0.0141 0.0032

Uranus 104655-10-10 03:49 G 39945795.54 39945795.66 39945795.78 0.0141 0.0052

Uranus 104656-01-06 06:57 G 39945883.69 39945883.79 39945883.91 0.0142 0.0073

Jupiter 104656-02-15 16:04 G 39945924.00 39945924.17 39945924.35 0.0513 0.0180

Uranus 104656-04-03 10:33 G 39945971.84 39945971.94 39945972.04 0.0142 0.0093

Uranus 104656-06-30 13:54 G 39946060.01 39946060.08 39946060.16 0.0142 0.0113

Uranus 104656-09-26 17:01 G 39946148.18 39946148.21 39946148.27 0.0142 0.0134

Mars 104658-03-10 19:11 G 39946678.22 39946678.30 39946678.38 0.1667 0.1207

Venus 104658-11-24 17:59 G 39946937.15 39946937.25 39946937.35 0.3657 0.1043

Mars 104660-02-13 22:04 G 39947383.33 39947383.42 39947383.51 0.1644 0.1028

Saturn 104660-12-11 06:57 G 39947684.64 39947684.79 39947684.96 0.0265 0.0138

Saturn 104661-03-10 04:47 G 39947773.51 39947773.70 39947773.89 0.0265 0.0047

Saturn 104661-06-07 02:37 G 39947862.52 39947862.61 39947862.70 0.0266 0.0233

Jupiter 104661-07-19 21:21 G 39947905.32 39947905.39 39947905.46 0.0515 0.0425

Jupiter 104661-10-17 01:40 G 39947994.45 39947994.57 39947994.69 0.0513 0.0201

Moon 104662-04-13 10:33 G 39948172.92 39948172.94 39948172.96 0.2647 0.2585

Venus 104664-06-09 09:21 G 39948960.79 39948960.89 39948960.99 0.3654 0.0714

Jupiter 104667-12-04 12:13 G 39950233.82 39950234.01 39950234.19 0.0513 0.0057

Mars 104668-09-03 16:47 G 39950508.05 39950508.20 39950508.36 0.1893 0.0794

Earth 104669-04-06 12:42 G 39950722.94 39950723.03 39950723.12 0.2651 0.1567

Moon 104669-04-06 12:57 G 39950722.95 39950723.04 39950723.13 0.2645 0.1569 *

Mars 104669-07-06 09:21 G 39950813.78 39950813.89 39950814.00 0.1649 0.0497

Venus 104669-12-24 00:28 G 39950984.45 39950984.52 39950984.60 0.3651 0.2416

Jupiter 104673-08-05 06:42 G 39952304.65 39952304.78 39952304.90 0.0513 0.0056

Saturn 104674-10-19 18:13 G 39952745.14 39952745.26 39952745.38 0.0297 0.0123

Saturn 104675-01-16 06:13 G 39952833.64 39952833.76 39952833.89 0.0296 0.0051

Saturn 104675-04-14 18:13 G 39952922.18 39952922.26 39952922.35 0.0296 0.0222

Mars 104678-01-24 09:21 G 39953937.74 39953937.89 39953938.04 0.1884 0.0898

Moon 104678-10-10 12:28 G 39954196.92 39954197.02 39954197.13 0.2686 0.1987

Earth 104678-10-10 14:09 G 39954196.96 39954197.09 39954197.22 0.2682 0.1622 *

Mars 104678-11-26 20:37 G 39954244.25 39954244.36 39954244.48 0.1655 0.0071

Jupiter 104679-09-22 07:11 G 39954543.65 39954543.80 39954543.95 0.0512 0.0308

Moon 104682-04-09 05:16 G 39955473.62 39955473.72 39955473.83 0.2644 0.0122

Earth 104682-04-09 05:45 G 39955473.63 39955473.74 39955473.85 0.2650 0.0052 *

Jupiter 104685-05-24 11:45 G 39956614.86 39956614.99 39956615.11 0.0514 0.0091

Mars 104688-04-18 08:09 G 39957674.73 39957674.84 39957674.94 0.1661 0.0587

Mars 104690-03-24 10:33 G 39958379.93 39958379.94 39958379.96 0.1638 0.1622

Saturn 104690-04-30 05:30 G 39958416.60 39958416.73 39958416.86 0.0264 0.0194

Saturn 104690-07-28 02:52 G 39958505.43 39958505.62 39958505.82 0.0264 0.0013

Saturn 104690-10-25 00:28 G 39958594.38 39958594.52 39958594.67 0.0265 0.0174

Jupiter 104691-10-09 17:59 G 39958944.14 39958944.25 39958944.35 0.0515 0.0418

Moon 104691-10-13 23:16 G 39958948.40 39958948.47 39958948.55 0.2690 0.2368

Earth 104691-10-13 23:45 G 39958948.41 39958948.49 39958948.57 0.2684 0.2322 *

Uranus 104694-08-28 05:45 G 39959997.67 39959997.74 39959997.83 0.0137 0.0123

Uranus 104694-11-24 13:25 G 39960085.93 39960086.06 39960086.21 0.0137 0.0096

Uranus 104695-02-20 21:21 G 39960174.22 39960174.39 39960174.55 0.0137 0.0068

Moon 104695-04-11 22:18 G 39960224.33 39960224.43 39960224.52 0.2650 0.1330

Earth 104695-04-11 22:47 G 39960224.36 39960224.45 39960224.54 0.2648 0.1501 *

Uranus 104695-05-20 04:47 G 39960262.52 39960262.70 39960262.89 0.0137 0.0041

Uranus 104695-08-16 12:28 G 39960350.83 39960351.02 39960351.21 0.0137 0.0014

Uranus 104695-11-12 20:09 G 39960439.15 39960439.34 39960439.53 0.0137 0.0014

Uranus 104696-02-09 03:35 G 39960527.47 39960527.65 39960527.84 0.0137 0.0042

Uranus 104696-05-07 11:16 G 39960615.81 39960615.97 39960616.15 0.0137 0.0069

Uranus 104696-08-03 18:42 G 39960704.16 39960704.28 39960704.43 0.0137 0.0097

Uranus 104696-10-31 02:37 G 39960792.54 39960792.61 39960792.70 0.0137 0.0124

Jupiter 104697-03-12 16:18 G 39960925.07 39960925.18 39960925.29 0.0514 0.0247

Jupiter 104697-06-09 20:23 G 39961014.26 39961014.35 39961014.43 0.0511 0.0372

Mars 104697-09-08 19:11 G 39961105.22 39961105.30 39961105.38 0.1667 0.1140

Mars 104699-08-14 22:04 G 39961810.33 39961810.42 39961810.50 0.1643 0.1099

Neptune 104699-12-17 04:47 G 39961934.63 39961934.70 39961934.77 0.0090 0.0083

Neptune 104700-03-15 08:09 G 39962022.75 39962022.84 39962022.97 0.0090 0.0073

Neptune 104700-06-11 12:13 G 39962110.87 39962111.01 39962111.16 0.0090 0.0062

Neptune 104700-09-07 15:49 G 39962199.01 39962199.16 39962199.33 0.0090 0.0052

Neptune 104700-12-04 19:40 G 39962287.15 39962287.32 39962287.50 0.0090 0.0041

Neptune 104701-03-02 23:16 G 39962375.30 39962375.47 39962375.67 0.0090 0.0031

Neptune 104701-05-30 03:21 G 39962463.45 39962463.64 39962463.83 0.0090 0.0020

Neptune 104701-08-26 07:11 G 39962551.60 39962551.80 39962552.00 0.0090 0.0009

Neptune 104701-11-22 11:01 G 39962639.76 39962639.96 39962640.15 0.0090 0.0002

Neptune 104702-02-18 14:37 G 39962727.92 39962728.11 39962728.31 0.0090 0.0013

Neptune 104702-05-17 18:13 G 39962816.08 39962816.26 39962816.46 0.0090 0.0024

Neptune 104702-08-13 22:18 G 39962904.25 39962904.43 39962904.61 0.0090 0.0034

Neptune 104702-11-10 01:54 G 39962992.42 39962992.58 39962992.76 0.0090 0.0045

Neptune 104703-02-06 05:30 G 39963080.60 39963080.73 39963080.90 0.0090 0.0056

Neptune 104703-05-05 09:35 G 39963168.78 39963168.90 39963169.04 0.0090 0.0066

Jupiter 104703-07-29 14:52 G 39963253.95 39963254.12 39963254.29 0.0514 0.0193

Neptune 104703-08-01 13:11 G 39963256.97 39963257.05 39963257.17 0.0090 0.0077

Neptune 104703-10-28 17:01 G 39963345.19 39963345.21 39963345.26 0.0090 0.0088

Saturn 104704-03-08 18:28 G 39963477.18 39963477.27 39963477.37 0.0298 0.0200

Saturn 104704-06-05 06:42 G 39963565.65 39963565.78 39963565.91 0.0297 0.0025

Saturn 104704-09-01 18:42 G 39963654.17 39963654.28 39963654.39 0.0296 0.0148

Venus 104705-12-22 20:23 G 39964131.21 39964131.35 39964131.48 0.3721 0.1998

Mars 104708-03-05 17:59 G 39964935.10 39964935.25 39964935.39 0.1893 0.0957

Jupiter 104708-12-30 20:37 G 39965235.29 39965235.36 39965235.44 0.0515 0.0405

Mars 104709-01-05 09:21 G 39965240.78 39965240.89 39965241.00 0.1649 0.0565

Jupiter 104709-03-30 00:57 G 39965324.43 39965324.54 39965324.66 0.0512 0.0220

Venus 104709-12-16 23:59 G 39965586.42 39965586.50 39965586.58 0.3659 0.2208

Moon 104715-04-08 17:01 G 39967525.12 39967525.21 39967525.30 0.2646 0.1367

Earth 104715-04-08 17:30 G 39967525.13 39967525.23 39967525.32 0.2651 0.1248 *

Jupiter 104715-05-17 11:16 G 39967563.79 39967563.97 39967564.16 0.0513 0.0039

Venus 104715-07-02 15:21 G 39967610.04 39967610.14 39967610.24 0.3656 0.0441

Mars 104717-07-26 10:18 G 39968364.77 39968364.93 39968365.09 0.1884 0.0743

Mars 104718-05-28 20:37 G 39968671.25 39968671.36 39968671.48 0.1655 0.0043

Saturn 104719-09-18 03:21 G 39969148.60 39969148.64 39969148.68 0.0264 0.0256

Saturn 104719-12-16 00:42 G 39969237.35 39969237.53 39969237.72 0.0265 0.0075

Saturn 104720-03-13 22:18 G 39969326.26 39969326.43 39969326.61 0.0265 0.0110

Venus 104721-01-15 06:42 G 39969633.68 39969633.78 39969633.87 0.3653 0.1296

Jupiter 104721-01-16 05:30 G 39969634.61 39969634.73 39969634.86 0.0513 0.0065

Earth 104724-10-11 21:06 G 39970999.22 39970999.38 39970999.53 0.2682 0.0883

Moon 104724-10-11 21:21 G 39970999.24 39970999.39 39970999.54 0.2690 0.0819 *

Venus 104726-07-31 21:49 G 39971657.35 39971657.41 39971657.47 0.3651 0.2998

Jupiter 104727-03-05 07:25 G 39971873.66 39971873.81 39971873.97 0.0512 0.0272

Mars 104727-10-19 07:54 G 39972101.72 39972101.83 39972101.94 0.1661 0.0520

Moon 104728-04-10 10:04 G 39972275.81 39972275.92 39972276.02 0.2653 0.0242

Earth 104728-04-10 10:33 G 39972275.83 39972275.94 39972276.05 0.2649 0.0285 *

Jupiter 104732-11-04 10:33 G 39973944.82 39973944.94 39973945.07 0.0514 0.0084

Saturn 104733-07-26 20:09 G 39974209.28 39974209.34 39974209.41 0.0298 0.0255

Saturn 104733-10-23 08:23 G 39974297.73 39974297.85 39974297.98 0.0297 0.0080

Saturn 104734-01-19 20:37 G 39974386.24 39974386.36 39974386.48 0.0296 0.0094

Saturn 104734-04-18 08:37 G 39974474.81 39974474.86 39974474.91 0.0296 0.0265

Mars 104737-03-10 19:11 G 39975532.21 39975532.30 39975532.39 0.1667 0.1071

Uranus 104737-08-29 03:49 G 39975703.62 39975703.66 39975703.73 0.0141 0.0128

Uranus 104737-11-25 07:25 G 39975791.73 39975791.81 39975791.90 0.0141 0.0107

Uranus 104738-02-21 10:47 G 39975879.86 39975879.95 39975880.06 0.0141 0.0087

Uranus 104738-05-20 14:23 G 39975967.99 39975968.10 39975968.22 0.0141 0.0066

Uranus 104738-08-16 17:45 G 39976056.12 39976056.24 39976056.37 0.0141 0.0046

Uranus 104738-11-12 21:21 G 39976144.26 39976144.39 39976144.52 0.0141 0.0026

Uranus 104739-02-09 00:42 G 39976232.40 39976232.53 39976232.66 0.0141 0.0005

Mars 104739-02-13 21:49 G 39976237.33 39976237.41 39976237.49 0.1644 0.1165

Jupiter 104739-03-22 16:18 G 39976274.08 39976274.18 39976274.28 0.0514 0.0424

Uranus 104739-05-08 04:04 G 39976320.54 39976320.67 39976320.80 0.0141 0.0016

Uranus 104739-08-04 07:25 G 39976408.69 39976408.81 39976408.94 0.0141 0.0036

Uranus 104739-10-31 10:47 G 39976496.84 39976496.95 39976497.08 0.0141 0.0057

Uranus 104740-01-27 14:23 G 39976584.99 39976585.10 39976585.21 0.0141 0.0077

Uranus 104740-04-24 17:45 G 39976673.15 39976673.24 39976673.34 0.0142 0.0097

Uranus 104740-07-21 21:06 G 39976761.31 39976761.38 39976761.46 0.0142 0.0117

Uranus 104740-10-18 00:28 G 39976849.50 39976849.52 39976849.55 0.0142 0.0138

Moon 104741-04-13 03:35 G 39977026.57 39977026.65 39977026.72 0.2654 0.1802

Earth 104741-04-13 03:35 G 39977026.57 39977026.65 39977026.73 0.2648 0.1812 *

Jupiter 104744-08-23 15:35 G 39978255.04 39978255.15 39978255.27 0.0514 0.0229

Jupiter 104744-11-20 19:40 G 39978344.24 39978344.32 39978344.41 0.0512 0.0390

Mars 104746-08-01 06:28 G 39978962.75 39978962.77 39978962.79 0.1673 0.1633

Pluto 104746-09-21 13:11 G 39979014.00 39979014.05 39979014.13 0.0060 0.0056

Pluto 104746-12-18 14:37 G 39979102.00 39979102.11 39979102.24 0.0060 0.0046

Pluto 104747-03-16 15:35 G 39979190.02 39979190.15 39979190.33 0.0060 0.0037

Pluto 104747-06-12 17:01 G 39979278.05 39979278.21 39979278.40 0.0060 0.0027

Mars 104747-09-04 18:28 G 39979362.13 39979362.27 39979362.41 0.1893 0.1090

Pluto 104747-09-08 18:28 G 39979366.10 39979366.27 39979366.47 0.0060 0.0017

Pluto 104747-12-05 19:54 G 39979454.14 39979454.33 39979454.53 0.0060 0.0007

Pluto 104748-03-02 21:21 G 39979542.20 39979542.39 39979542.58 0.0060 0.0003

Moon 104748-04-06 04:33 G 39979576.68 39979576.69 39979576.70 0.2649 0.2616

Earth 104748-04-06 05:16 G 39979576.68 39979576.72 39979576.75 0.2652 0.2468 *

Pluto 104748-05-29 22:33 G 39979630.26 39979630.44 39979630.63 0.0060 0.0013

Mars 104748-07-06 09:21 G 39979667.78 39979667.89 39979668.00 0.1649 0.0636

Pluto 104748-08-25 23:30 G 39979718.32 39979718.48 39979718.68 0.0060 0.0023

Pluto 104748-11-22 00:42 G 39979806.39 39979806.53 39979806.72 0.0060 0.0033

Pluto 104749-02-18 02:23 G 39979894.47 39979894.60 39979894.74 0.0060 0.0043

Saturn 104749-05-03 23:01 G 39979969.30 39979969.46 39979969.63 0.0264 0.0132

Pluto 104749-05-17 03:35 G 39979982.57 39979982.65 39979982.76 0.0060 0.0053

Saturn 104749-07-31 20:37 G 39980058.17 39980058.36 39980058.55 0.0264 0.0052

Saturn 104749-10-28 18:13 G 39980147.18 39980147.26 39980147.35 0.0265 0.0237

Jupiter 104751-01-08 12:57 G 39980583.87 39980584.04 39980584.21 0.0514 0.0197

Jupiter 104756-06-11 20:09 G 39982565.26 39982565.34 39982565.43 0.0515 0.0385

Jupiter 104756-09-09 00:28 G 39982654.41 39982654.52 39982654.63 0.0512 0.0238

Venus 104757-01-12 11:30 G 39982779.87 39982779.98 39982780.09 0.3717 0.2616

Mars 104757-01-24 11:30 G 39982791.82 39982791.98 39982792.14 0.1885 0.0570

Mars 104757-11-26 20:37 G 39983098.24 39983098.36 39983098.48 0.1655 0.0094

Venus 104761-01-07 05:59 G 39984235.71 39984235.75 39984235.78 0.3661 0.3382

Moon 104761-04-08 21:35 G 39984327.30 39984327.40 39984327.50 0.2654 0.0970

Earth 104761-04-08 22:18 G 39984327.32 39984327.43 39984327.53 0.2650 0.0934 *

Jupiter 104762-10-27 10:04 G 39984893.74 39984893.92 39984894.11 0.0513 0.0026

Saturn 104763-03-12 08:52 G 39985029.76 39985029.87 39985029.98 0.0298 0.0156

Saturn 104763-06-08 20:52 G 39985118.24 39985118.37 39985118.50 0.0297 0.0021

Saturn 104763-09-05 08:52 G 39985206.78 39985206.87 39985206.97 0.0296 0.0192

Venus 104766-07-23 21:21 G 39986259.30 39986259.39 39986259.48 0.3658 0.1601

Mars 104767-04-19 07:54 G 39986528.72 39986528.83 39986528.94 0.1661 0.0454

Jupiter 104768-06-28 05:16 G 39986964.59 39986964.72 39986964.84 0.0513 0.0086

Earth 104770-10-13 04:04 G 39987801.51 39987801.67 39987801.83 0.2683 0.0136

Moon 104770-10-13 05:45 G 39987801.58 39987801.74 39987801.90 0.2684 0.0255 *

Venus 104772-02-06 12:42 G 39988282.93 39988283.03 39988283.13 0.3655 0.0154

Earth 104774-04-11 15:21 G 39989078.03 39989078.14 39989078.24 0.2649 0.0611

Moon 104774-04-11 15:21 G 39989078.04 39989078.14 39989078.24 0.2656 0.0563 *

Jupiter 104774-08-15 06:42 G 39989203.62 39989203.78 39989203.95 0.0512 0.0252

Mars 104776-09-08 19:11 G 39989959.21 39989959.30 39989959.39 0.1667 0.1008

Venus 104777-08-22 04:04 G 39990306.58 39990306.67 39990306.75 0.3652 0.1880

Mars 104778-08-14 21:49 G 39990664.34 39990664.41 39990664.49 0.1643 0.1234

Uranus 104778-09-18 12:57 G 39990698.95 39990699.04 39990699.15 0.0137 0.0116

Saturn 104778-09-20 20:52 G 39990701.24 39990701.37 39990701.50 0.0264 0.0195

Uranus 104778-12-15 20:37 G 39990787.22 39990787.36 39990787.52 0.0137 0.0089

Saturn 104778-12-18 18:13 G 39990790.07 39990790.26 39990790.45 0.0265 0.0013

Uranus 104779-03-14 04:18 G 39990875.51 39990875.68 39990875.86 0.0137 0.0061

Saturn 104779-03-17 15:49 G 39990879.02 39990879.16 39990879.31 0.0265 0.0172

Uranus 104779-06-10 11:59 G 39990963.82 39990964.00 39990964.19 0.0137 0.0034

Uranus 104779-09-06 19:40 G 39991052.13 39991052.32 39991052.52 0.0137 0.0007

Uranus 104779-12-04 03:21 G 39991140.45 39991140.64 39991140.83 0.0137 0.0021

Uranus 104780-03-01 10:47 G 39991228.78 39991228.95 39991229.14 0.0137 0.0049

Jupiter 104780-04-16 09:35 G 39991274.78 39991274.90 39991275.03 0.0514 0.0074

Uranus 104780-05-28 18:28 G 39991317.12 39991317.27 39991317.44 0.0137 0.0076

Neptune 104780-07-13 11:01 G 39991362.93 39991362.96 39991363.01 0.0088 0.0083

Uranus 104780-08-25 01:54 G 39991405.47 39991405.58 39991405.72 0.0137 0.0104

Neptune 104780-10-09 12:28 G 39991450.96 39991451.02 39991451.09 0.0088 0.0076

Uranus 104780-11-21 09:49 G 39991493.86 39991493.91 39991493.97 0.0137 0.0131

Neptune 104781-01-05 13:54 G 39991539.00 39991539.08 39991539.16 0.0088 0.0069

Neptune 104781-04-03 14:52 G 39991627.04 39991627.12 39991627.22 0.0088 0.0063

Neptune 104781-06-30 16:18 G 39991715.08 39991715.18 39991715.29 0.0088 0.0056

Neptune 104781-09-26 17:30 G 39991803.13 39991803.23 39991803.35 0.0088 0.0049

Neptune 104781-12-23 18:57 G 39991891.18 39991891.29 39991891.41 0.0088 0.0042

Neptune 104782-03-21 20:09 G 39991979.22 39991979.34 39991979.46 0.0088 0.0035

Neptune 104782-06-17 21:21 G 39992067.27 39992067.39 39992067.52 0.0088 0.0029

Neptune 104782-09-13 22:47 G 39992155.32 39992155.45 39992155.58 0.0088 0.0022

Neptune 104782-12-10 23:59 G 39992243.37 39992243.50 39992243.63 0.0088 0.0015

Venus 104783-03-07 19:11 G 39992330.28 39992330.30 39992330.32 0.3650 0.3579

Neptune 104783-03-09 01:11 G 39992331.42 39992331.55 39992331.69 0.0088 0.0009

Neptune 104783-06-05 02:37 G 39992419.47 39992419.61 39992419.74 0.0088 0.0003

Neptune 104783-09-01 03:49 G 39992507.53 39992507.66 39992507.79 0.0088 0.0005

Neptune 104783-11-28 05:01 G 39992595.58 39992595.71 39992595.84 0.0088 0.0012

Neptune 104784-02-24 06:13 G 39992683.63 39992683.76 39992683.89 0.0088 0.0019

Neptune 104784-05-22 07:25 G 39992771.69 39992771.81 39992771.94 0.0088 0.0026

Neptune 104784-08-18 08:37 G 39992859.75 39992859.86 39992859.99 0.0088 0.0033

Neptune 104784-11-14 10:04 G 39992947.80 39992947.92 39992948.04 0.0088 0.0039

Neptune 104785-02-10 11:16 G 39993035.86 39993035.97 39993036.08 0.0088 0.0046

Neptune 104785-05-09 12:13 G 39993123.92 39993124.01 39993124.13 0.0088 0.0053

Neptune 104785-08-05 13:40 G 39993211.98 39993212.07 39993212.17 0.0088 0.0059

Neptune 104785-11-01 14:52 G 39993300.04 39993300.12 39993300.21 0.0088 0.0066

Neptune 104786-01-28 16:04 G 39993388.11 39993388.17 39993388.25 0.0088 0.0073

Mars 104786-01-30 06:13 G 39993389.73 39993389.76 39993389.80 0.1673 0.1570

Neptune 104786-04-26 17:30 G 39993476.18 39993476.23 39993476.29 0.0088 0.0079

Jupiter 104786-06-03 03:06 G 39993513.58 39993513.63 39993513.69 0.0512 0.0482

Neptune 104786-07-23 18:28 G 39993564.26 39993564.27 39993564.31 0.0088 0.0086

Jupiter 104786-09-01 16:47 G 39993604.13 39993604.20 39993604.28 0.0514 0.0464

Mars 104787-03-05 19:40 G 39993789.20 39993789.32 39993789.45 0.1894 0.1274

Earth 104787-04-14 08:09 G 39993828.78 39993828.84 39993828.91 0.2648 0.2127

Moon 104787-04-14 08:52 G 39993828.82 39993828.87 39993828.92 0.2649 0.2301 *

Mars 104788-01-05 09:06 G 39994094.78 39994094.88 39994094.99 0.1649 0.0703

Jupiter 104792-02-03 14:37 G 39995584.99 39995585.11 39995585.22 0.0514 0.0221

Jupiter 104792-05-02 18:42 G 39995674.20 39995674.28 39995674.36 0.0512 0.0398

Saturn 104792-07-29 10:18 G 39995761.84 39995761.93 39995762.02 0.0298 0.0213

Saturn 104792-10-25 22:33 G 39995850.31 39995850.44 39995850.57 0.0297 0.0038

Saturn 104793-01-22 10:33 G 39995938.83 39995938.94 39995939.06 0.0296 0.0136

Moon 104794-04-07 09:21 G 39996378.84 39996378.89 39996378.95 0.2656 0.2266

Earth 104794-04-07 09:49 G 39996378.85 39996378.91 39996378.97 0.2651 0.2151 *

Mars 104796-07-25 11:59 G 39997218.84 39997219.00 39997219.17 0.1884 0.0444

Mars 104797-05-27 20:37 G 39997525.24 39997525.36 39997525.47 0.1655 0.0163

Jupiter 104798-06-20 11:30 G 39997913.81 39997913.98 39997914.15 0.0514 0.0205

Jupiter 104803-11-22 19:40 G 39999895.23 39999895.32 39999895.41 0.0515 0.0368

Jupiter 104804-02-19 23:59 G 39999984.39 39999984.50 39999984.61 0.0512 0.0256

Mars 104806-10-18 07:54 G 40000955.72 40000955.83 40000955.94 0.1660 0.0383

Earth 104807-04-10 02:52 G 40001129.52 40001129.62 40001129.73 0.2650 0.0618

Moon 104807-04-10 03:06 G 40001129.53 40001129.63 40001129.74 0.2657 0.0550 *

Saturn 104808-02-07 19:11 G 40001433.26 40001433.30 40001433.37 0.0263 0.0251

Saturn 104808-05-06 16:47 G 40001522.02 40001522.20 40001522.39 0.0264 0.0069

Saturn 104808-08-03 14:23 G 40001610.93 40001611.10 40001611.27 0.0264 0.0115

Jupiter 104810-04-08 08:09 G 40002223.66 40002223.84 40002224.03 0.0513 0.0024

Venus 104813-08-19 14:09 G 40003452.93 40003453.09 40003453.25 0.3718 0.0577

Jupiter 104815-12-09 04:33 G 40004294.57 40004294.69 40004294.82 0.0513 0.0104

Mars 104816-03-09 18:57 G 40004386.20 40004386.29 40004386.39 0.1667 0.0942

Earth 104816-10-13 11:01 G 40004603.80 40004603.96 40004604.12 0.2683 0.0617

Moon 104816-10-13 11:45 G 40004603.82 40004603.99 40004604.15 0.2676 0.0667 *

Venus 104817-08-14 03:21 G 40004908.58 40004908.64 40004908.71 0.3660 0.2768

Mars 104818-02-12 21:49 G 40005091.34 40005091.41 40005091.48 0.1643 0.1302

Earth 104820-04-11 19:54 G 40005880.23 40005880.33 40005880.43 0.2649 0.0923

Moon 104820-04-11 20:37 G 40005880.26 40005880.36 40005880.46 0.2649 0.1010 *

Uranus 104821-09-18 11:30 G 40006404.92 40006404.98 40006405.06 0.0141 0.0121

Uranus 104821-12-15 15:06 G 40006493.04 40006493.13 40006493.22 0.0141 0.0101

Saturn 104821-12-16 10:33 G 40006493.92 40006493.94 40006493.97 0.0298 0.0290

Jupiter 104822-01-25 05:16 G 40006533.56 40006533.72 40006533.89 0.0513 0.0242

Uranus 104822-03-13 18:28 G 40006581.17 40006581.27 40006581.38 0.0141 0.0080

Saturn 104822-03-14 22:47 G 40006582.34 40006582.45 40006582.57 0.0298 0.0114

Uranus 104822-06-09 21:49 G 40006669.30 40006669.41 40006669.54 0.0141 0.0060

Saturn 104822-06-11 11:01 G 40006670.83 40006670.96 40006671.09 0.0297 0.0061

Uranus 104822-09-06 01:25 G 40006757.44 40006757.56 40006757.69 0.0141 0.0039

Saturn 104822-09-07 23:01 G 40006759.39 40006759.46 40006759.54 0.0296 0.0233

Uranus 104822-12-03 04:47 G 40006845.57 40006845.70 40006845.84 0.0141 0.0020

Venus 104823-02-27 18:42 G 40006932.19 40006932.28 40006932.38 0.3657 0.1003

Uranus 104823-03-01 08:23 G 40006933.71 40006933.85 40006933.98 0.0141 0.0004

Uranus 104823-05-28 11:45 G 40007021.86 40007021.99 40007022.12 0.0141 0.0022

Uranus 104823-08-24 15:06 G 40007110.01 40007110.13 40007110.26 0.0141 0.0042

Uranus 104823-11-20 18:28 G 40007198.16 40007198.27 40007198.39 0.0141 0.0063

Uranus 104824-02-16 21:49 G 40007286.31 40007286.41 40007286.52 0.0141 0.0083

Uranus 104824-05-15 01:11 G 40007374.47 40007374.55 40007374.65 0.0142 0.0104

Uranus 104824-08-11 04:47 G 40007462.64 40007462.70 40007462.76 0.0142 0.0124

Mars 104825-07-31 06:13 G 40007816.72 40007816.76 40007816.81 0.1673 0.1502

Mars 104826-09-03 20:37 G 40008216.25 40008216.36 40008216.47 0.1894 0.1422

Mars 104827-07-06 09:06 G 40008521.78 40008521.88 40008521.98 0.1649 0.0769

Jupiter 104827-09-27 09:06 G 40008604.76 40008604.88 40008605.01 0.0513 0.0053

Venus 104828-09-12 10:04 G 40008955.82 40008955.92 40008956.02 0.3654 0.0749

Earth 104833-04-14 12:57 G 40010631.00 40010631.04 40010631.08 0.2648 0.2446

Moon 104833-04-14 13:25 G 40010631.02 40010631.06 40010631.09 0.2642 0.2502 *

Jupiter 104833-11-13 02:09 G 40010843.52 40010843.59 40010843.67 0.0512 0.0465

Jupiter 104834-02-11 15:49 G 40010934.11 40010934.16 40010934.23 0.0514 0.0482

Venus 104834-03-29 01:25 G 40010979.48 40010979.56 40010979.63 0.3652 0.2464

Mars 104836-01-24 13:11 G 40011645.88 40011646.05 40011646.22 0.1885 0.0272

Mars 104836-11-25 20:37 G 40011952.24 40011952.36 40011952.47 0.1654 0.0233

Saturn 104837-09-23 14:23 G 40012253.94 40012254.10 40012254.26 0.0264 0.0134

Saturn 104837-12-21 11:45 G 40012342.81 40012342.99 40012343.19 0.0265 0.0050

Saturn 104838-03-20 09:21 G 40012431.81 40012431.89 40012431.99 0.0265 0.0235

Jupiter 104839-07-16 13:40 G 40012914.95 40012915.07 40012915.18 0.0514 0.0211

Jupiter 104839-10-13 17:45 G 40013004.16 40013004.24 40013004.31 0.0512 0.0407

Earth 104840-04-07 14:37 G 40013181.03 40013181.11 40013181.18 0.2651 0.1839

Moon 104840-04-07 14:52 G 40013181.04 40013181.12 40013181.21 0.2656 0.1728 *

Pluto 104841-12-19 00:57 G 40013801.49 40013801.54 40013801.59 0.0084 0.0076

Pluto 104842-03-17 02:09 G 40013889.49 40013889.59 40013889.69 0.0084 0.0058

Pluto 104842-06-13 03:06 G 40013977.52 40013977.63 40013977.76 0.0084 0.0039

Pluto 104842-09-09 04:33 G 40014065.56 40014065.69 40014065.82 0.0084 0.0020

Pluto 104842-12-06 05:45 G 40014153.61 40014153.74 40014153.88 0.0084 0.0002

Pluto 104843-03-04 06:57 G 40014241.66 40014241.79 40014241.92 0.0084 0.0017

Pluto 104843-05-31 08:09 G 40014329.72 40014329.84 40014329.96 0.0083 0.0036

Pluto 104843-08-27 09:06 G 40014417.79 40014417.88 40014417.99 0.0083 0.0055

Pluto 104843-11-23 10:33 G 40014505.88 40014505.94 40014506.00 0.0083 0.0073

Jupiter 104845-11-30 11:59 G 40015243.84 40015244.00 40015244.16 0.0514 0.0244

Mars 104846-04-18 07:40 G 40015382.71 40015382.82 40015382.94 0.1661 0.0325

Moon 104849-10-11 08:23 G 40016654.78 40016654.85 40016654.91 0.2675 0.2448

Earth 104849-10-11 08:23 G 40016654.81 40016654.85 40016654.90 0.2682 0.2561 *

Jupiter 104851-05-04 18:28 G 40017225.18 40017225.27 40017225.36 0.0515 0.0361

Jupiter 104851-08-01 22:47 G 40017314.34 40017314.45 40017314.56 0.0512 0.0263

Saturn 104851-08-02 00:42 G 40017314.42 40017314.53 40017314.64 0.0297 0.0168 *

Saturn 104851-10-29 12:57 G 40017402.91 40017403.04 40017403.17 0.0297 0.0010

Saturn 104852-01-26 00:57 G 40017491.44 40017491.54 40017491.64 0.0296 0.0179

Earth 104853-04-10 07:40 G 40017931.71 40017931.82 40017931.93 0.2650 0.0298

Moon 104853-04-10 08:23 G 40017931.74 40017931.85 40017931.95 0.2650 0.0257 *

Mars 104855-09-08 19:11 G 40018813.20 40018813.30 40018813.39 0.1666 0.0871

Mars 104857-08-13 21:49 G 40019518.35 40019518.41 40019518.47 0.1643 0.1370

Jupiter 104857-09-18 06:42 G 40019553.59 40019553.78 40019553.97 0.0513 0.0014

Uranus 104862-07-12 12:57 G 40021312.02 40021312.04 40021312.08 0.0137 0.0135

Uranus 104862-10-08 20:23 G 40021400.25 40021400.35 40021400.49 0.0137 0.0108

Moon 104862-10-14 16:47 G 40021406.05 40021406.20 40021406.35 0.2679 0.1068

Earth 104862-10-14 18:13 G 40021406.12 40021406.26 40021406.39 0.2684 0.1385 *

Uranus 104863-01-05 04:18 G 40021488.53 40021488.68 40021488.84 0.0137 0.0080

Jupiter 104863-02-20 23:30 G 40021535.46 40021535.48 40021535.49 0.0516 0.0509

Uranus 104863-04-03 11:59 G 40021576.82 40021577.00 40021577.18 0.0137 0.0053

Jupiter 104863-05-21 03:49 G 40021624.54 40021624.66 40021624.79 0.0513 0.0120

Uranus 104863-06-30 19:25 G 40021665.13 40021665.31 40021665.51 0.0137 0.0026

Uranus 104863-09-27 03:06 G 40021753.44 40021753.63 40021753.83 0.0137 0.0004

Uranus 104863-12-24 10:47 G 40021841.76 40021841.95 40021842.14 0.0137 0.0029

Uranus 104864-03-21 18:28 G 40021930.10 40021930.27 40021930.45 0.0137 0.0057

Uranus 104864-06-18 02:09 G 40022018.44 40022018.59 40022018.74 0.0137 0.0084

Neptune 104864-09-13 02:09 G 40022105.52 40022105.59 40022105.68 0.0090 0.0081

Uranus 104864-09-14 09:35 G 40022106.80 40022106.90 40022107.02 0.0137 0.0112

Neptune 104864-12-10 05:30 G 40022193.64 40022193.73 40022193.88 0.0090 0.0071

Mars 104865-01-29 06:13 G 40022243.70 40022243.76 40022243.82 0.1673 0.1435

Neptune 104865-03-08 09:35 G 40022281.77 40022281.90 40022282.06 0.0090 0.0060

Neptune 104865-06-04 13:40 G 40022369.90 40022370.07 40022370.23 0.0090 0.0049

Neptune 104865-08-31 17:01 G 40022458.05 40022458.21 40022458.40 0.0090 0.0039

Neptune 104865-11-27 21:06 G 40022546.20 40022546.38 40022546.57 0.0090 0.0028

Neptune 104866-02-24 00:42 G 40022634.35 40022634.53 40022634.73 0.0090 0.0018

Mars 104866-03-04 21:21 G 40022643.30 40022643.39 40022643.49 0.1894 0.1570

Earth 104866-04-13 00:42 G 40022682.43 40022682.53 40022682.62 0.2649 0.1234

Moon 104866-04-13 00:57 G 40022682.44 40022682.54 40022682.63 0.2642 0.1327 *

Neptune 104866-05-23 04:33 G 40022722.50 40022722.69 40022722.89 0.0090 0.0007

Neptune 104866-08-19 08:23 G 40022810.66 40022810.85 40022811.05 0.0090 0.0004

Neptune 104866-11-15 12:13 G 40022898.82 40022899.01 40022899.20 0.0090 0.0015

Mars 104867-01-04 09:06 G 40022948.79 40022948.88 40022948.98 0.1649 0.0841

Saturn 104867-02-10 13:25 G 40022985.92 40022986.06 40022986.19 0.0264 0.0186

Neptune 104867-02-11 15:49 G 40022986.98 40022987.16 40022987.36 0.0090 0.0026

Saturn 104867-05-10 10:47 G 40023074.76 40023074.95 40023075.14 0.0264 0.0005

Neptune 104867-05-10 19:25 G 40023075.15 40023075.31 40023075.51 0.0090 0.0037

Neptune 104867-08-06 23:30 G 40023163.32 40023163.48 40023163.65 0.0090 0.0047

Saturn 104867-08-07 08:23 G 40023163.71 40023163.85 40023163.99 0.0265 0.0181

Neptune 104867-11-03 03:06 G 40023251.49 40023251.63 40023251.79 0.0090 0.0058

Neptune 104868-01-30 06:42 G 40023339.68 40023339.78 40023339.93 0.0090 0.0069

Neptune 104868-04-27 11:01 G 40023427.87 40023427.96 40023428.05 0.0090 0.0079

Jupiter 104869-07-07 03:21 G 40023863.48 40023863.64 40023863.81 0.0512 0.0240

Venus 104870-03-26 17:01 G 40024126.06 40024126.21 40024126.35 0.3719 0.1497

Venus 104874-03-21 00:42 G 40025581.45 40025581.53 40025581.62 0.3660 0.2160

Jupiter 104875-03-09 08:37 G 40025934.73 40025934.86 40025934.98 0.0513 0.0037

Mars 104875-07-25 14:09 G 40026072.92 40026073.09 40026073.26 0.1885 0.0117

Mars 104876-05-26 20:23 G 40026379.24 40026379.35 40026379.47 0.1654 0.0302

Moon 104879-04-15 17:16 G 40027433.20 40027433.22 40027433.23 0.2643 0.2614

Venus 104879-10-04 16:18 G 40027605.07 40027605.18 40027605.28 0.3657 0.0426

Saturn 104880-12-19 01:11 G 40028046.48 40028046.55 40028046.62 0.0298 0.0243

Saturn 104881-03-17 13:25 G 40028134.93 40028135.06 40028135.18 0.0298 0.0067

Jupiter 104881-04-25 00:28 G 40028173.45 40028173.52 40028173.61 0.0512 0.0458

Saturn 104881-06-14 01:25 G 40028223.44 40028223.56 40028223.68 0.0297 0.0107

Jupiter 104881-07-24 14:23 G 40028264.05 40028264.10 40028264.16 0.0515 0.0490

Saturn 104881-09-10 13:25 G 40028312.02 40028312.06 40028312.11 0.0296 0.0278

Mars 104884-12-14 06:57 G 40029502.74 40029502.79 40029502.84 0.1876 0.1779

Venus 104885-04-19 07:25 G 40029628.72 40029628.81 40029628.91 0.3654 0.1343

Mars 104885-10-17 07:40 G 40029809.71 40029809.82 40029809.94 0.1660 0.0255

Earth 104886-04-08 19:11 G 40029983.22 40029983.30 40029983.39 0.2651 0.1525

Moon 104886-04-08 19:54 G 40029983.24 40029983.33 40029983.42 0.2649 0.1385 *

Jupiter 104886-12-26 13:11 G 40030244.93 40030245.05 40030245.17 0.0514 0.0190

Jupiter 104887-03-25 17:16 G 40030334.15 40030334.22 40030334.29 0.0511 0.0426

Venus 104890-11-02 22:47 G 40031652.39 40031652.45 40031652.50 0.3651 0.3049

Jupiter 104893-05-12 10:47 G 40032573.80 40032573.95 40032574.12 0.0514 0.0259

Mars 104895-03-09 18:57 G 40033240.19 40033240.29 40033240.39 0.1666 0.0807

Moon 104895-10-12 13:40 G 40033456.97 40033457.07 40033457.17 0.2679 0.2129

Earth 104895-10-12 15:21 G 40033457.02 40033457.14 40033457.26 0.2682 0.1810 *

Saturn 104896-06-29 11:01 G 40033717.91 40033717.96 40033718.02 0.0264 0.0249

Saturn 104896-09-26 08:37 G 40033806.67 40033806.86 40033807.04 0.0264 0.0068

Saturn 104896-12-24 05:59 G 40033895.58 40033895.75 40033895.93 0.0265 0.0117

Mars 104897-02-11 21:49 G 40033945.35 40033945.41 40033945.46 0.1643 0.1437

Jupiter 104898-10-14 17:30 G 40034555.14 40034555.23 40034555.32 0.0515 0.0352

Jupiter 104899-01-11 21:49 G 40034644.30 40034644.41 40034644.51 0.0512 0.0271

Moon 104899-04-11 12:28 G 40034733.91 40034734.02 40034734.13 0.2643 0.0056

Earth 104899-04-11 12:28 G 40034733.91 40034734.02 40034734.12 0.2650 0.0079 *

Mars 104904-07-31 06:13 G 40036670.70 40036670.76 40036670.82 0.1673 0.1367

Jupiter 104905-03-01 06:57 G 40036883.61 40036883.79 40036883.98 0.0513 0.0023

Uranus 104905-07-13 15:35 G 40037018.12 40037018.15 40037018.19 0.0141 0.0136

Mars 104905-09-03 22:33 G 40037070.38 40037070.44 40037070.50 0.1894 0.1742

Uranus 104905-10-09 18:57 G 40037106.22 40037106.29 40037106.37 0.0141 0.0116

Uranus 104906-01-05 22:33 G 40037194.34 40037194.44 40037194.54 0.0141 0.0095

Uranus 104906-04-04 01:54 G 40037282.47 40037282.58 40037282.70 0.0141 0.0075

Uranus 104906-07-01 05:30 G 40037370.60 40037370.73 40037370.85 0.0141 0.0054

Mars 104906-07-06 09:06 G 40037375.78 40037375.88 40037375.98 0.1649 0.0904

Uranus 104906-09-27 08:52 G 40037458.74 40037458.87 40037459.00 0.0141 0.0034

Uranus 104906-12-24 12:13 G 40037546.88 40037547.01 40037547.14 0.0141 0.0014

Uranus 104907-03-22 15:35 G 40037635.02 40037635.15 40037635.29 0.0141 0.0008

Uranus 104907-06-18 19:11 G 40037723.17 40037723.30 40037723.43 0.0141 0.0028

Uranus 104907-09-14 22:33 G 40037811.32 40037811.44 40037811.56 0.0141 0.0048

Uranus 104907-12-12 01:54 G 40037899.47 40037899.58 40037899.70 0.0141 0.0068

Uranus 104908-03-09 05:16 G 40037987.62 40037987.72 40037987.83 0.0142 0.0089

Uranus 104908-06-05 08:37 G 40038075.79 40038075.86 40038075.95 0.0142 0.0110

Uranus 104908-09-01 11:59 G 40038163.96 40038164.00 40038164.06 0.0142 0.0130

Moon 104908-10-15 23:45 G 40038208.38 40038208.49 40038208.60 0.2688 0.1988

Earth 104908-10-16 01:11 G 40038208.45 40038208.55 40038208.64 0.2684 0.2129 *

Saturn 104910-05-09 03:06 G 40038778.62 40038778.63 40038778.64 0.0298 0.0296

Jupiter 104910-08-03 22:04 G 40038865.40 40038865.42 40038865.45 0.0516 0.0505

Saturn 104910-08-05 15:21 G 40038867.02 40038867.14 40038867.26 0.0297 0.0120

Jupiter 104910-11-01 02:37 G 40038954.49 40038954.61 40038954.74 0.0513 0.0125

Saturn 104910-11-02 03:21 G 40038955.52 40038955.64 40038955.77 0.0297 0.0056

Saturn 104911-01-29 15:21 G 40039044.07 40039044.14 40039044.23 0.0296 0.0227

Moon 104912-04-14 04:47 G 40039484.61 40039484.70 40039484.79 0.2645 0.1462

Earth 104912-04-14 05:16 G 40039484.64 40039484.72 40039484.81 0.2648 0.1554 *

Mars 104915-01-24 14:52 G 40040499.95 40040500.12 40040500.29 0.1885 0.0048

Mars 104915-11-26 20:23 G 40040806.24 40040806.35 40040806.47 0.1654 0.0373

Jupiter 104916-12-18 01:40 G 40041193.41 40041193.57 40041193.74 0.0512 0.0234

Moon 104919-04-08 07:25 G 40042034.79 40042034.81 40042034.83 0.2648 0.2592

Venus 104921-04-17 08:23 G 40042774.76 40042774.85 40042774.94 0.3716 0.3024

Jupiter 104922-08-20 07:40 G 40043264.69 40043264.82 40043264.95 0.0514 0.0023

Mars 104924-06-15 07:40 G 40043929.74 40043929.82 40043929.90 0.1876 0.1633

Venus 104925-04-12 06:42 G 40044230.74 40044230.78 40044230.82 0.3662 0.3325

Mars 104925-04-18 07:40 G 40044236.71 40044236.82 40044236.94 0.1660 0.0184

Saturn 104926-02-14 07:54 G 40044538.66 40044538.83 40044539.00 0.0264 0.0117

Saturn 104926-05-14 05:16 G 40044627.54 40044627.72 40044627.91 0.0264 0.0067

Saturn 104926-08-11 02:52 G 40044716.57 40044716.62 40044716.69 0.0265 0.0252

Venus 104926-11-01 19:40 G 40044799.28 40044799.32 40044799.36 0.3721 0.3590

Jupiter 104928-10-05 22:18 G 40045503.36 40045503.43 40045503.52 0.0512 0.0459

Jupiter 104929-01-04 11:59 G 40045593.95 40045594.00 40045594.06 0.0514 0.0487

Venus 104930-10-26 22:18 G 40046254.34 40046254.43 40046254.52 0.3659 0.1547

Moon 104932-04-09 23:59 G 40046785.41 40046785.50 40046785.60 0.2645 0.1256

Earth 104932-04-09 23:59 G 40046785.41 40046785.50 40046785.60 0.2651 0.1201 *

Jupiter 104934-06-08 12:13 G 40047574.89 40047575.01 40047575.13 0.0514 0.0177

Jupiter 104934-09-05 16:18 G 40047664.12 40047664.18 40047664.24 0.0511 0.0439

Mars 104934-09-08 18:57 G 40047667.19 40047667.29 40047667.39 0.1666 0.0738

Venus 104936-05-11 13:40 G 40048277.97 40048278.07 40048278.17 0.3656 0.0221

Mars 104936-08-13 21:49 G 40048372.36 40048372.41 40048372.45 0.1643 0.1509

Saturn 104939-12-23 16:18 G 40049599.08 40049599.18 40049599.28 0.0298 0.0187

Saturn 104940-03-21 04:33 G 40049687.56 40049687.69 40049687.82 0.0297 0.0015

Saturn 104940-06-17 16:33 G 40049776.08 40049776.19 40049776.30 0.0297 0.0161

Jupiter 104940-10-23 08:52 G 40049903.71 40049903.87 40049904.03 0.0514 0.0261

Moon 104941-10-13 21:21 G 40050259.25 40050259.39 40050259.53 0.2687 0.1325

Earth 104941-10-13 22:33 G 40050259.29 40050259.44 40050259.59 0.2682 0.1063 *

Venus 104941-11-25 04:47 G 40050301.62 40050301.70 40050301.79 0.3653 0.1931

Mars 104944-01-30 06:13 G 40051097.69 40051097.76 40051097.83 0.1673 0.1303

Neptune 104945-01-12 09:21 G 40051445.89 40051445.89 40051445.91 0.0088 0.0088

Neptune 104945-04-10 10:33 G 40051533.90 40051533.94 40051534.00 0.0088 0.0081

Moon 104945-04-12 16:33 G 40051536.08 40051536.19 40051536.29 0.2646 0.0303

Earth 104945-04-12 17:01 G 40051536.11 40051536.21 40051536.32 0.2649 0.0346 *

Neptune 104945-07-07 11:59 G 40051621.94 40051622.00 40051622.07 0.0088 0.0074

Neptune 104945-10-03 13:11 G 40051709.97 40051710.05 40051710.14 0.0088 0.0067

Neptune 104945-12-30 14:37 G 40051798.02 40051798.11 40051798.21 0.0088 0.0060

Mars 104946-01-04 09:06 G 40051802.79 40051802.88 40051802.97 0.1648 0.0973

Jupiter 104946-03-27 16:47 G 40051885.10 40051885.20 40051885.30 0.0515 0.0335

Neptune 104946-03-28 15:35 G 40051886.06 40051886.15 40051886.27 0.0088 0.0054

Neptune 104946-06-24 17:01 G 40051974.11 40051974.21 40051974.33 0.0088 0.0047

Jupiter 104946-06-24 21:06 G 40051974.27 40051974.38 40051974.48 0.0512 0.0287 *

Uranus 104946-08-02 21:21 G 40052013.31 40052013.39 40052013.47 0.0137 0.0125

Neptune 104946-09-20 18:28 G 40052062.15 40052062.27 40052062.39 0.0088 0.0040

Uranus 104946-10-30 04:47 G 40052101.57 40052101.70 40052101.84 0.0137 0.0097

Neptune 104946-12-17 19:40 G 40052150.20 40052150.32 40052150.45 0.0088 0.0033

Uranus 104947-01-26 12:28 G 40052189.86 40052190.02 40052190.19 0.0137 0.0070

Neptune 104947-03-15 20:52 G 40052238.25 40052238.37 40052238.50 0.0088 0.0027

Uranus 104947-04-24 19:54 G 40052278.16 40052278.33 40052278.52 0.0137 0.0043

Venus 104947-06-10 20:09 G 40052325.33 40052325.34 40052325.35 0.3650 0.3624

Neptune 104947-06-11 22:18 G 40052326.30 40052326.43 40052326.56 0.0088 0.0020

Uranus 104947-07-22 03:35 G 40052366.46 40052366.65 40052366.85 0.0137 0.0016

Neptune 104947-09-07 23:30 G 40052414.35 40052414.48 40052414.61 0.0088 0.0013

Uranus 104947-10-18 11:16 G 40052454.78 40052454.97 40052455.17 0.0137 0.0012

Neptune 104947-12-05 00:42 G 40052502.40 40052502.53 40052502.67 0.0088 0.0007

Uranus 104948-01-14 18:42 G 40052543.11 40052543.28 40052543.48 0.0137 0.0040

Neptune 104948-03-02 02:09 G 40052590.46 40052590.59 40052590.72 0.0088 0.0002

Uranus 104948-04-12 02:37 G 40052631.44 40052631.61 40052631.78 0.0137 0.0067

Neptune 104948-05-29 03:21 G 40052678.51 40052678.64 40052678.77 0.0088 0.0007

Uranus 104948-07-09 10:04 G 40052719.79 40052719.92 40052720.07 0.0137 0.0094

Neptune 104948-08-25 04:33 G 40052766.56 40052766.69 40052766.82 0.0088 0.0014

Uranus 104948-10-05 17:45 G 40052808.16 40052808.24 40052808.34 0.0137 0.0122

Neptune 104948-11-21 05:45 G 40052854.62 40052854.74 40052854.87 0.0088 0.0021

Neptune 104949-02-17 06:57 G 40052942.67 40052942.79 40052942.92 0.0088 0.0028

Neptune 104949-05-16 08:09 G 40053030.73 40053030.84 40053030.97 0.0088 0.0035

Neptune 104949-08-12 09:35 G 40053118.79 40053118.90 40053119.02 0.0088 0.0041

Neptune 104949-11-08 10:47 G 40053206.84 40053206.95 40053207.06 0.0088 0.0048

Neptune 104950-02-04 11:59 G 40053294.90 40053295.00 40053295.11 0.0088 0.0055

Neptune 104950-05-03 13:25 G 40053382.97 40053383.06 40053383.15 0.0088 0.0061

Neptune 104950-07-30 14:23 G 40053471.03 40053471.10 40053471.19 0.0088 0.0068

Neptune 104950-10-26 15:35 G 40053559.09 40053559.15 40053559.23 0.0088 0.0075

Neptune 104951-01-22 17:01 G 40053647.17 40053647.21 40053647.26 0.0088 0.0081

Jupiter 104952-08-11 05:30 G 40054213.55 40054213.73 40054213.92 0.0513 0.0031

Mars 104954-07-25 15:49 G 40054927.00 40054927.16 40054927.33 0.1886 0.0198

Mars 104955-05-27 20:23 G 40055233.24 40055233.35 40055233.46 0.1654 0.0433

Saturn 104955-07-04 05:59 G 40055270.61 40055270.75 40055270.89 0.0264 0.0178

Saturn 104955-10-01 03:21 G 40055359.45 40055359.64 40055359.84 0.0265 0.0007

Saturn 104955-12-29 00:57 G 40055448.41 40055448.54 40055448.68 0.0265 0.0190

Jupiter 104958-01-13 20:52 G 40056195.35 40056195.37 40056195.40 0.0516 0.0499

Jupiter 104958-04-13 01:25 G 40056284.44 40056284.56 40056284.68 0.0513 0.0129

Moon 104958-04-15 09:35 G 40056286.82 40056286.90 40056286.98 0.2653 0.1734

Earth 104958-04-15 10:04 G 40056286.85 40056286.92 40056287.00 0.2648 0.1865 *

Mars 104963-12-15 08:52 G 40058356.76 40058356.87 40058356.97 0.1876 0.1469

Jupiter 104964-05-30 01:40 G 40058523.40 40058523.57 40058523.74 0.0512 0.0203

Mars 104964-10-17 07:40 G 40058663.70 40058663.82 40058663.93 0.1660 0.0116

Moon 104965-04-08 11:30 G 40058836.94 40058836.98 40058837.02 0.2646 0.2419

Earth 104965-04-08 11:45 G 40058836.95 40058836.99 40058837.03 0.2652 0.2425 *

Saturn 104969-05-11 18:13 G 40060331.19 40060331.26 40060331.34 0.0298 0.0238

Saturn 104969-08-08 06:28 G 40060419.65 40060419.77 40060419.90 0.0297 0.0063

Saturn 104969-11-04 18:42 G 40060508.16 40060508.28 40060508.40 0.0296 0.0112

Jupiter 104970-01-30 06:13 G 40060594.64 40060594.76 40060594.89 0.0514 0.0023

Saturn 104970-02-01 06:42 G 40060596.75 40060596.78 40060596.81 0.0296 0.0282

Mars 104974-03-09 18:57 G 40062094.18 40062094.29 40062094.40 0.1666 0.0667

Mars 104976-02-12 21:35 G 40062799.37 40062799.40 40062799.43 0.1643 0.1575

Jupiter 104976-03-17 20:23 G 40062833.28 40062833.35 40062833.44 0.0511 0.0455

Jupiter 104976-06-16 10:04 G 40062923.87 40062923.92 40062923.98 0.0514 0.0488

Venus 104977-11-22 11:01 G 40063447.81 40063447.96 40063448.11 0.3717 0.1016

Moon 104978-04-11 04:04 G 40063587.57 40063587.67 40063587.77 0.2650 0.1021

Earth 104978-04-11 04:47 G 40063587.60 40063587.70 40063587.80 0.2651 0.0882 *

Venus 104981-11-17 04:18 G 40064903.61 40064903.68 40064903.74 0.3661 0.2714

Jupiter 104981-11-18 11:01 G 40064904.84 40064904.96 40064905.09 0.0515 0.0171

Jupiter 104982-02-15 15:21 G 40064994.08 40064994.14 40064994.20 0.0512 0.0448

Mars 104983-07-31 06:13 G 40065524.68 40065524.76 40065524.83 0.1672 0.1233

Saturn 104984-11-20 05:45 G 40066002.65 40066002.74 40066002.85 0.0264 0.0223

Saturn 104985-02-17 03:21 G 40066091.45 40066091.64 40066091.83 0.0264 0.0041

Saturn 104985-05-17 00:57 G 40066180.38 40066180.54 40066180.70 0.0265 0.0144

Mars 104985-07-05 09:06 G 40066229.79 40066229.88 40066229.97 0.1648 0.1045

Venus 104987-06-02 19:40 G 40066927.22 40066927.32 40066927.42 0.3658 0.0943

Earth 104987-10-15 05:30 G 40067061.56 40067061.73 40067061.89 0.2682 0.0329

Moon 104987-10-15 06:42 G 40067061.62 40067061.78 40067061.94 0.2688 0.0062 *

Jupiter 104988-04-04 06:28 G 40067233.61 40067233.77 40067233.93 0.0514 0.0253

Uranus 104989-08-02 23:01 G 40067719.42 40067719.46 40067719.52 0.0141 0.0130

Uranus 104989-10-30 02:37 G 40067807.53 40067807.61 40067807.69 0.0141 0.0109

Uranus 104990-01-26 05:59 G 40067895.65 40067895.75 40067895.86 0.0141 0.0089

Uranus 104990-04-24 09:35 G 40067983.78 40067983.90 40067984.01 0.0141 0.0068

Uranus 104990-07-21 12:57 G 40068071.92 40068072.04 40068072.17 0.0141 0.0048

Uranus 104990-10-17 16:18 G 40068160.06 40068160.18 40068160.31 0.0141 0.0028

Uranus 104991-01-13 19:54 G 40068248.20 40068248.33 40068248.46 0.0141 0.0007

Uranus 104991-04-11 23:16 G 40068336.34 40068336.47 40068336.60 0.0141 0.0014

Moon 104991-04-13 21:21 G 40068338.29 40068338.39 40068338.50 0.2654 0.0604

Earth 104991-04-13 21:49 G 40068338.31 40068338.41 40068338.51 0.2649 0.0653 *

Uranus 104991-07-09 02:37 G 40068424.49 40068424.61 40068424.74 0.0141 0.0034

Uranus 104991-10-05 05:59 G 40068512.63 40068512.75 40068512.88 0.0141 0.0055

Uranus 104992-01-01 09:35 G 40068600.79 40068600.90 40068601.01 0.0142 0.0075

Uranus 104992-03-29 12:42 G 40068688.94 40068689.03 40068689.14 0.0142 0.0096

Uranus 104992-06-25 16:18 G 40068777.11 40068777.18 40068777.26 0.0142 0.0116

Uranus 104992-09-21 19:40 G 40068865.29 40068865.32 40068865.36 0.0142 0.0136

Venus 104992-12-16 11:01 G 40068950.86 40068950.96 40068951.06 0.3655 0.0797

Jupiter 104993-09-06 15:35 G 40069215.06 40069215.15 40069215.25 0.0515 0.0328

Jupiter 104993-12-04 19:54 G 40069304.23 40069304.33 40069304.43 0.0512 0.0295

Mars 104994-01-23 17:01 G 40069354.05 40069354.21 40069354.38 0.1886 0.0368

Mars 104994-11-25 20:23 G 40069660.24 40069660.35 40069660.46 0.1654 0.0502

Pluto 104995-04-12 18:42 G 40069798.20 40069798.28 40069798.39 0.0060 0.0052

Pluto 104995-07-09 20:23 G 40069886.21 40069886.35 40069886.49 0.0060 0.0042

Pluto 104995-10-05 21:06 G 40069974.24 40069974.38 40069974.57 0.0060 0.0033

Pluto 104996-01-01 22:47 G 40070062.28 40070062.45 40070062.64 0.0060 0.0023

Pluto 104996-03-30 00:13 G 40070150.32 40070150.51 40070150.70 0.0060 0.0013

Pluto 104996-06-26 01:25 G 40070238.37 40070238.56 40070238.76 0.0060 0.0004

Pluto 104996-09-22 02:37 G 40070326.43 40070326.61 40070326.81 0.0060 0.0007

Pluto 104996-12-19 03:49 G 40070414.49 40070414.66 40070414.86 0.0060 0.0017

Pluto 104997-03-17 05:30 G 40070502.56 40070502.73 40070502.90 0.0060 0.0026

Pluto 104997-06-13 06:28 G 40070590.63 40070590.77 40070590.94 0.0060 0.0037

Pluto 104997-09-09 07:40 G 40070678.72 40070678.82 40070678.96 0.0060 0.0047

Pluto 104997-12-06 09:06 G 40070766.83 40070766.88 40070766.96 0.0060 0.0056

Venus 104998-07-02 02:09 G 40070974.52 40070974.59 40070974.67 0.3652 0.2512

Saturn 104998-12-26 07:54 G 40071151.72 40071151.83 40071151.95 0.0297 0.0123

Saturn 104999-03-24 20:09 G 40071240.21 40071240.34 40071240.47 0.0297 0.0051

Saturn 104999-06-21 08:09 G 40071328.76 40071328.84 40071328.92 0.0296 0.0223

Jupiter 105000-01-22 03:06 G 40071543.45 40071543.63 40071543.82 0.0513 0.0029

106TH MILLENNIUM CE

This is a list of transits of Mercury in the 106th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	**105003-06-16 09:35**	**G**	**40072783.78**	**40072783.90**	**40072784.02**	**0.1877**	**0.1326**	
Earth	**105004-04-16 14:52**	**G**	**40073089.06**	**40073089.12**	**40073089.18**	**0.2648**	**0.2183**	
Moon	**105004-04-16 15:06**	**G**	**40073089.07**	**40073089.13**	**40073089.18**	**0.2654**	**0.2246**	*
Mars	**105004-04-18 07:40**	**G**	**40073090.70**	**40073090.82**	**40073090.93**	**0.1660**	**0.0067**	
Jupiter	**105005-06-26 20:09**	**G**	**40073525.30**	**40073525.34**	**40073525.38**	**0.0516**	**0.0486**	
Jupiter	**105005-09-24 00:28**	**G**	**40073614.40**	**40073614.52**	**40073614.65**	**0.0513**	**0.0142**	
Moon	**105011-04-10 15:49**	**G**	**40075639.11**	**40075639.16**	**40075639.21**	**0.2653**	**0.2271**	
Earth	**105011-04-10 16:33**	**G**	**40075639.12**	**40075639.19**	**40075639.25**	**0.2652**	**0.2105**	*
Jupiter	**105011-11-10 23:45**	**G**	**40075853.32**	**40075853.49**	**40075853.66**	**0.0512**	**0.0201**	
Mars	**105013-09-08 18:57**	**G**	**40076521.18**	**40076521.29**	**40076521.39**	**0.1666**	**0.0604**	
Saturn	**105014-07-08 01:40**	**G**	**40076823.39**	**40076823.57**	**40076823.74**	**0.0264**	**0.0100**	
Saturn	**105014-10-04 23:01**	**G**	**40076912.28**	**40076912.46**	**40076912.65**	**0.0265**	**0.0085**	
Jupiter	**105017-07-13 04:47**	**G**	**40077924.58**	**40077924.70**	**40077924.83**	**0.0514**	**0.0026**	
Mars	**105023-01-30 05:59**	**G**	**40079951.67**	**40079951.75**	**40079951.83**	**0.1672**	**0.1168**	
Jupiter	**105023-08-29 19:54**	**G**	**40080163.24**	**40080163.33**	**40080163.43**	**0.0511**	**0.0433**	
Jupiter	**105023-11-28 09:35**	**G**	**40080253.89**	**40080253.90**	**40080253.92**	**0.0514**	**0.0511**	
Moon	**105024-04-12 09:06**	**G**	**40080389.78**	**40080389.88**	**40080389.99**	**0.2656**	**0.0568**	
Earth	**105024-04-12 09:35**	**G**	**40080389.79**	**40080389.90**	**40080390.00**	**0.2650**	**0.0570**	*

Mars 105025-01-04 08:52 G 40080656.79 40080656.87 40080656.96 0.1648 0.1111

Saturn 105028-05-15 10:18 G 40081883.83 40081883.93 40081884.04 0.0297 0.0170

Saturn 105028-08-11 22:33 G 40081972.31 40081972.44 40081972.57 0.0297 0.0011

Saturn 105028-11-08 10:33 G 40082060.85 40082060.94 40082061.05 0.0296 0.0179

Neptune 105029-03-15 19:54 G 40082188.32 40082188.33 40082188.36 0.0090 0.0089

Jupiter 105029-05-01 09:35 G 40082234.78 40082234.90 40082235.02 0.0515 0.0173

Neptune 105029-06-11 23:16 G 40082276.40 40082276.47 40082276.58 0.0090 0.0079

Jupiter 105029-07-29 13:40 G 40082324.01 40082324.07 40082324.13 0.0512 0.0445

Neptune 105029-09-08 03:21 G 40082364.52 40082364.64 40082364.77 0.0090 0.0068

Neptune 105029-12-05 06:57 G 40082452.65 40082452.79 40082452.95 0.0090 0.0058

Neptune 105030-03-03 11:01 G 40082540.79 40082540.96 40082541.12 0.0090 0.0047

Neptune 105030-05-30 14:23 G 40082628.94 40082629.10 40082629.29 0.0090 0.0037

Uranus 105030-08-24 05:16 G 40082714.64 40082714.72 40082714.85 0.0137 0.0115

Neptune 105030-08-26 18:28 G 40082717.08 40082717.27 40082717.46 0.0090 0.0026

Uranus 105030-11-20 13:11 G 40082802.91 40082803.05 40082803.21 0.0137 0.0087

Neptune 105030-11-22 22:04 G 40082805.23 40082805.42 40082805.62 0.0090 0.0015

Uranus 105031-02-16 20:52 G 40082891.20 40082891.37 40082891.55 0.0137 0.0059

Neptune 105031-02-19 01:54 G 40082893.39 40082893.58 40082893.78 0.0090 0.0005

Uranus 105031-05-16 04:18 G 40082979.50 40082979.68 40082979.88 0.0137 0.0032

Neptune 105031-05-18 05:45 G 40082981.54 40082981.74 40082981.94 0.0090 0.0006

Uranus 105031-08-12 12:13 G 40083067.81 40083068.01 40083068.20 0.0137 0.0005

Neptune 105031-08-14 09:21 G 40083069.70 40083069.89 40083070.09 0.0090 0.0017

Uranus 105031-11-08 19:40 G 40083156.13 40083156.32 40083156.51 0.0137 0.0023

Neptune 105031-11-10 12:57 G 40083157.87 40083158.04 40083158.24 0.0090 0.0028

Uranus 105032-02-05 03:06 G 40083244.46 40083244.63 40083244.82 0.0137 0.0051

Neptune 105032-02-06 17:01 G 40083246.03 40083246.21 40083246.39 0.0090 0.0038

Uranus 105032-05-03 10:47 G 40083332.80 40083332.95 40083333.12 0.0137 0.0078

Neptune 105032-05-04 20:37 G 40083334.21 40083334.36 40083334.53 0.0090 0.0049

Uranus 105032-07-30 18:13 G 40083421.16 40083421.26 40083421.40 0.0137 0.0106

Neptune 105032-08-01 00:13 G 40083422.38 40083422.51 40083422.67 0.0090 0.0060

Uranus 105032-10-27 02:09 G 40083509.56 40083509.59 40083509.64 0.0137 0.0133

Neptune 105032-10-28 04:18 G 40083510.57 40083510.68 40083510.81 0.0090 0.0070

Neptune 105033-01-24 07:54 G 40083598.76 40083598.83 40083598.93 0.0090 0.0081

Mars 105033-07-25 17:30 G 40083781.07 40083781.23 40083781.40 0.1886 0.0496

Earth 105033-10-16 12:28 G 40083863.86 40083864.02 40083864.18 0.2683 0.0431

Moon 105033-10-16 14:09 G 40083863.93 40083864.09 40083864.25 0.2681 0.0788 *

Mars 105034-05-27 20:23 G 40084087.24 40084087.35 40084087.46 0.1654 0.0572

Venus 105034-06-30 13:40 G 40084120.91 40084121.07 40084121.22 0.3719 0.0999

Jupiter 105035-09-16 04:04 G 40084563.51 40084563.67 40084563.84 0.0513 0.0252

Earth 105037-04-15 02:23 G 40085140.50 40085140.60 40085140.71 0.2649 0.0975

Moon 105037-04-15 02:52 G 40085140.52 40085140.62 40085140.72 0.2654 0.0990 *

Venus 105038-06-25 01:40 G 40085576.49 40085576.57 40085576.65 0.3660 0.2103

Jupiter 105041-02-17 14:23 G 40086545.00 40086545.10 40086545.19 0.0516 0.0326

Jupiter 105041-05-17 18:42 G 40086634.18 40086634.28 40086634.38 0.0513 0.0298

Mars 105042-12-15 10:33 G 40087210.81 40087210.94 40087211.08 0.1877 0.1165

Mars 105043-10-18 07:40 G 40087517.70 40087517.82 40087517.93 0.1660 0.0048

Saturn 105043-11-25 01:54 G 40087555.43 40087555.58 40087555.75 0.0264 0.0141

Venus 105044-01-08 17:01 G 40087600.11 40087600.21 40087600.31 0.3657 0.0353

Saturn 105044-02-21 23:30 G 40087644.30 40087644.48 40087644.67 0.0265 0.0044

Saturn 105044-05-20 21:21 G 40087733.30 40087733.39 40087733.48 0.0265 0.0230

Jupiter 105047-07-05 00:28 G 40088873.33 40088873.52 40088873.70 0.0513 0.0020

Venus 105049-07-24 08:23 G 40089623.75 40089623.85 40089623.94 0.3654 0.1380

Earth 105050-04-17 19:25 G 40089891.28 40089891.31 40089891.35 0.2648 0.2496

Jupiter 105052-12-06 18:42 G 40090855.24 40090855.28 40090855.32 0.0516 0.0485

Jupiter 105053-03-05 23:16 G 40090944.35 40090944.47 40090944.59 0.0513 0.0143

Mars 105053-03-09 18:42 G 40090948.17 40090948.28 40090948.39 0.1666 0.0537

Venus 105055-02-06 23:30 G 40091647.43 40091647.48 40091647.54 0.3651 0.3084

Moon 105057-04-10 21:06 G 40092441.30 40092441.38 40092441.45 0.2658 0.1838

Earth 105057-04-10 21:06 G 40092441.30 40092441.38 40092441.46 0.2651 0.1786 *

Saturn 105057-10-02 12:28 G 40092615.94 40092616.02 40092616.10 0.0298 0.0222

Saturn 105057-12-30 00:42 G 40092704.40 40092704.53 40092704.66 0.0297 0.0047

Saturn 105058-03-28 12:42 G 40092792.91 40092793.03 40092793.15 0.0296 0.0126

Jupiter 105059-04-22 21:06 G 40093183.21 40093183.38 40093183.55 0.0512 0.0210

Mars 105062-07-31 05:59 G 40094378.67 40094378.75 40094378.84 0.1672 0.1099

Mars 105064-07-05 08:52 G 40095083.79 40095083.87 40095083.95 0.1648 0.1179

Jupiter 105064-12-23 03:49 G 40095254.53 40095254.66 40095254.78 0.0514 0.0016

Moon 105066-10-14 11:16 G 40095914.91 40095914.97 40095915.03 0.2677 0.2456

Earth 105070-04-13 14:09 G 40097191.99 40097192.09 40097192.20 0.2650 0.0256

Moon 105070-04-13 14:52 G 40097192.01 40097192.12 40097192.22 0.2654 0.0174 *

Jupiter 105071-02-08 17:45 G 40097493.15 40097493.24 40097493.33 0.0512 0.0436

Jupiter 105071-05-10 07:11 G 40097583.78 40097583.80 40097583.83 0.0514 0.0508

Mars 105071-12-21 17:01 G 40097809.21 40097809.21 40097809.21 0.1679 0.1675

Mars 105073-01-23 18:42 G 40098208.13 40098208.28 40098208.44 0.1886 0.0672

Saturn 105073-04-13 00:42 G 40098287.41 40098287.53 40098287.66 0.0264 0.0195

Saturn 105073-07-10 22:18 G 40098376.24 40098376.43 40098376.62 0.0265 0.0012

Uranus 105073-08-24 06:13 G 40098420.71 40098420.76 40098420.82 0.0141 0.0125

Saturn 105073-10-07 19:54 G 40098465.19 40098465.33 40098465.48 0.0265 0.0174

Uranus 105073-11-20 09:35 G 40098508.82 40098508.90 40098509.00 0.0141 0.0105

Mars 105073-11-25 20:23 G 40098514.24 40098514.35 40098514.45 0.1654 0.0642

Uranus 105074-02-16 13:11 G 40098596.95 40098597.05 40098597.16 0.0141 0.0084

Uranus 105074-05-15 16:33 G 40098685.08 40098685.19 40098685.31 0.0141 0.0064

Uranus 105074-08-11 20:09 G 40098773.22 40098773.34 40098773.47 0.0141 0.0043

Uranus 105074-11-07 23:30 G 40098861.35 40098861.48 40098861.61 0.0141 0.0023

Uranus 105075-02-04 03:06 G 40098949.49 40098949.63 40098949.76 0.0141 0.0004

Uranus 105075-05-03 06:28 G 40099037.64 40099037.77 40099037.90 0.0141 0.0018

Uranus 105075-07-30 09:49 G 40099125.79 40099125.91 40099126.04 0.0141 0.0039

Uranus 105075-10-26 13:11 G 40099213.94 40099214.05 40099214.17 0.0141 0.0059

Uranus 105076-01-22 16:33 G 40099302.09 40099302.19 40099302.31 0.0142 0.0080

Uranus 105076-04-19 20:09 G 40099390.25 40099390.34 40099390.43 0.0142 0.0100

Uranus 105076-07-16 23:16 G 40099478.42 40099478.47 40099478.55 0.0142 0.0121

Jupiter 105076-10-11 07:54 G 40099564.71 40099564.83 40099564.95 0.0514 0.0176

Uranus 105076-10-13 02:52 G 40099566.61 40099566.62 40099566.64 0.0142 0.0141

Jupiter 105077-01-08 11:59 G 40099653.94 40099654.00 40099654.07 0.0512 0.0441

Moon 105079-10-17 18:57 G 40100666.14 40100666.29 40100666.44 0.2677 0.1044

Earth 105079-10-17 19:25 G 40100666.16 40100666.31 40100666.45 0.2683 0.1180 *

Mars 105082-06-15 11:30 G 40101637.84 40101637.98 40101638.12 0.1877 0.1012

Jupiter 105083-02-26 03:06 G 40101893.47 40101893.63 40101893.79 0.0513 0.0267

Earth 105083-04-16 07:11 G 40101942.71 40101942.80 40101942.89 0.2649 0.1285

Moon 105083-04-16 07:54 G 40101942.74 40101942.83 40101942.92 0.2647 0.1406 *

Mars 105083-04-18 07:25 G 40101944.70 40101944.81 40101944.93 0.1660 0.0095

Venus 105085-07-21 05:01 G 40102769.66 40102769.71 40102769.77 0.3715 0.3484

Saturn 105087-02-19 15:06 G 40103348.07 40103348.13 40103348.18 0.0298 0.0266

Saturn 105087-05-19 03:21 G 40103436.51 40103436.64 40103436.76 0.0297 0.0090

Saturn 105087-08-15 15:21 G 40103525.02 40103525.14 40103525.27 0.0296 0.0084

Saturn 105087-11-12 03:21 G 40103613.58 40103613.64 40103613.71 0.0296 0.0255

Jupiter 105088-07-30 12:28 G 40103874.93 40103875.02 40103875.12 0.0515 0.0332

Jupiter 105088-10-27 16:47 G 40103964.10 40103964.20 40103964.31 0.0513 0.0292

Venus 105089-07-16 07:40 G 40104225.77 40104225.82 40104225.86 0.3663 0.3279

Pluto 105090-07-11 08:09 G 40104585.78 40104585.84 40104585.91 0.0084 0.0072

Pluto 105090-10-07 09:21 G 40104673.79 40104673.89 40104674.00 0.0084 0.0053

Pluto 105091-01-03 10:33 G 40104761.82 40104761.94 40104762.07 0.0084 0.0035

Venus 105091-02-04 16:18 G 40104794.09 40104794.18 40104794.27 0.3720 0.3062

Pluto 105091-04-01 11:59 G 40104849.87 40104850.00 40104850.13 0.0084 0.0016

Pluto 105091-06-28 13:11 G 40104937.91 40104938.05 40104938.18 0.0084 0.0003

Pluto 105091-09-24 14:09 G 40105025.97 40105026.09 40105026.23 0.0084 0.0022

Pluto 105091-12-21 15:35 G 40105114.03 40105114.15 40105114.26 0.0083 0.0040

Pluto 105092-03-18 16:33 G 40105202.10 40105202.19 40105202.29 0.0083 0.0058

Pluto 105092-06-14 17:45 G 40105290.20 40105290.24 40105290.30 0.0083 0.0077

Mars 105092-09-07 18:57 G 40105375.17 40105375.29 40105375.40 0.1666 0.0467

Jupiter 105094-12-14 21:49 G 40106203.23 40106203.41 40106203.60 0.0512 0.0016

Venus 105095-01-29 23:01 G 40106249.37 40106249.46 40106249.55 0.3659 0.1506

Jupiter 105100-05-19 17:01 G 40108185.17 40108185.21 40108185.25 0.0516 0.0490

Venus 105100-08-15 14:23 G 40108273.00 40108273.10 40108273.20 0.3657 0.0241

Jupiter 105100-08-16 21:35 G 40108274.28 40108274.40 40108274.52 0.0514 0.0140

Mars 105102-01-30 05:59 G 40108805.66 40108805.75 40108805.84 0.1672 0.1032

Saturn 105102-09-01 01:40 G 40109019.49 40109019.57 40109019.66 0.0264 0.0232

Saturn 105102-11-28 23:16 G 40109108.28 40109108.47 40109108.66 0.0265 0.0049

Saturn 105103-02-25 20:52 G 40109197.21 40109197.37 40109197.53 0.0265 0.0136

Earth 105103-04-13 01:54 G 40109243.49 40109243.58 40109243.67 0.2651 0.1468

Moon 105103-04-13 02:23 G 40109243.51 40109243.60 40109243.70 0.2654 0.1319 *

Mars 105104-01-05 08:52 G 40109510.80 40109510.87 40109510.95 0.1648 0.1252

Venus 105106-03-01 05:45 G 40110296.65 40110296.74 40110296.82 0.3654 0.1963

Jupiter 105106-10-03 17:59 G 40110513.09 40110513.25 40110513.42 0.0512 0.0224

Neptune 105109-10-11 08:37 G 40111616.85 40111616.86 40111616.90 0.0088 0.0086

Neptune 105110-01-07 10:04 G 40111704.87 40111704.92 40111704.98 0.0088 0.0079

Neptune 105110-04-05 11:30 G 40111792.91 40111792.98 40111793.05 0.0088 0.0072

Neptune 105110-07-02 12:28 G 40111880.94 40111881.02 40111881.12 0.0088 0.0066

Neptune 105110-09-28 13:54 G 40111968.99 40111969.08 40111969.18 0.0088 0.0059

Neptune 105110-12-25 15:06 G 40112057.03 40112057.13 40112057.24 0.0088 0.0052

Neptune 105111-03-23 16:33 G 40112145.08 40112145.19 40112145.30 0.0088 0.0045

Neptune 105111-06-19 17:45 G 40112233.12 40112233.24 40112233.36 0.0088 0.0038

Mars 105111-06-22 17:01 G 40112236.18 40112236.21 40112236.24 0.1679 0.1607

Neptune 105111-09-15 18:57 G 40112321.17 40112321.29 40112321.42 0.0088 0.0032

Neptune 105111-12-12 20:23 G 40112409.22 40112409.35 40112409.48 0.0088 0.0025

Neptune 105112-03-09 21:35 G 40112497.27 40112497.40 40112497.53 0.0088 0.0018

Jupiter 105112-06-05 02:09 G 40112584.46 40112584.59 40112584.72 0.0514 0.0017

Neptune 105112-06-05 22:47 G 40112585.32 40112585.45 40112585.59 0.0088 0.0012

Mars 105112-07-25 19:54 G 40112635.17 40112635.33 40112635.48 0.1887 0.0836

Neptune 105112-09-02 00:13 G 40112673.38 40112673.51 40112673.64 0.0088 0.0005

Moon 105112-10-15 16:04 G 40112717.06 40112717.17 40112717.28 0.2676 0.2015

Earth 105112-10-15 16:47 G 40112717.09 40112717.20 40112717.31 0.2682 0.1996 *

Neptune 105112-11-29 01:25 G 40112761.43 40112761.56 40112761.69 0.0088 0.0002

Neptune 105113-02-25 02:37 G 40112849.48 40112849.61 40112849.75 0.0088 0.0009

Neptune 105113-05-24 04:04 G 40112937.54 40112937.67 40112937.80 0.0088 0.0016

Mars 105113-05-27 20:09 G 40112941.24 40112941.34 40112941.45 0.1654 0.0708

Neptune 105113-08-20 05:16 G 40113025.59 40113025.72 40113025.85 0.0088 0.0023

Neptune 105113-11-16 06:28 G 40113113.65 40113113.77 40113113.90 0.0088 0.0029

Neptune 105114-02-12 07:40 G 40113201.70 40113201.82 40113201.94 0.0088 0.0036

Neptune 105114-05-11 08:52 G 40113289.76 40113289.87 40113289.99 0.0088 0.0043

Uranus 105114-06-18 06:13 G 40113327.72 40113327.76 40113327.84 0.0137 0.0131

Neptune 105114-08-07 10:04 G 40113377.82 40113377.92 40113378.04 0.0088 0.0050

Uranus 105114-09-14 13:54 G 40113415.97 40113416.08 40113416.22 0.0137 0.0103

Neptune 105114-11-03 11:30 G 40113465.88 40113465.98 40113466.08 0.0088 0.0056

Uranus 105114-12-11 21:49 G 40113504.25 40113504.41 40113504.57 0.0137 0.0076

Neptune 105115-01-30 12:42 G 40113553.94 40113554.03 40113554.12 0.0088 0.0063

Uranus 105115-03-10 05:16 G 40113592.54 40113592.72 40113592.90 0.0137 0.0048

Neptune 105115-04-28 13:40 G 40113642.01 40113642.07 40113642.16 0.0088 0.0070

Uranus 105115-06-06 12:57 G 40113680.85 40113681.04 40113681.23 0.0137 0.0021

Neptune 105115-07-25 15:21 G 40113730.07 40113730.14 40113730.20 0.0088 0.0076

Uranus 105115-09-02 20:37 G 40113769.16 40113769.36 40113769.55 0.0137 0.0007

Neptune 105115-10-21 16:18 G 40113818.15 40113818.18 40113818.23 0.0088 0.0083

Uranus 105115-11-30 04:18 G 40113857.49 40113857.68 40113857.86 0.0137 0.0034

Uranus 105116-02-26 11:45 G 40113945.82 40113945.99 40113946.17 0.0137 0.0062

Earth 105116-04-14 18:57 G 40113994.18 40113994.29 40113994.40 0.2650 0.0076

Moon 105116-04-14 19:25 G 40113994.21 40113994.31 40113994.42 0.2646 0.0140 *

Uranus 105116-05-24 19:25 G 40114034.17 40114034.31 40114034.46 0.0137 0.0089

Uranus 105116-08-21 02:52 G 40114122.53 40114122.62 40114122.73 0.0137 0.0117

Saturn 105116-10-06 05:45 G 40114168.63 40114168.74 40114168.86 0.0297 0.0136

Saturn 105117-01-02 17:59 G 40114257.12 40114257.25 40114257.38 0.0297 0.0039

Saturn 105117-04-01 05:59 G 40114345.66 40114345.75 40114345.84 0.0296 0.0210

Jupiter 105118-07-22 14:37 G 40114823.03 40114823.11 40114823.20 0.0511 0.0451

Jupiter 105118-10-21 04:04 G 40114913.62 40114913.67 40114913.73 0.0514 0.0491

Mars 105121-12-15 12:28 G 40116064.87 40116065.02 40116065.17 0.1877 0.0860

Mars 105122-10-18 07:25 G 40116371.70 40116371.81 40116371.93 0.1659 0.0159

Jupiter 105124-03-24 06:42 G 40116894.66 40116894.78 40116894.90 0.0514 0.0174

Jupiter 105124-06-21 10:47 G 40116983.89 40116983.95 40116984.01 0.0512 0.0443

Moon 105125-10-19 00:28 G 40117468.39 40117468.52 40117468.66 0.2682 0.1569

Earth 105125-10-19 02:23 G 40117468.49 40117468.60 40117468.71 0.2683 0.1948 *

Moon 105129-04-17 11:45 G 40118744.91 40118744.99 40118745.08 0.2642 0.1627

Earth 105129-04-17 11:59 G 40118744.91 40118745.00 40118745.08 0.2649 0.1604 *

Jupiter 105130-08-09 00:28 G 40119223.36 40119223.52 40119223.68 0.0513 0.0257

Mars 105132-03-09 18:42 G 40119802.17 40119802.28 40119802.39 0.1666 0.0399

Saturn 105132-04-16 22:18 G 40119840.25 40119840.43 40119840.61 0.0264 0.0102

Saturn 105132-07-14 19:54 G 40119929.15 40119929.33 40119929.51 0.0265 0.0083

Jupiter 105136-01-11 10:47 G 40121204.86 40121204.95 40121205.05 0.0515 0.0339

Jupiter 105136-04-09 15:06 G 40121294.03 40121294.13 40121294.24 0.0512 0.0284

Moon 105136-04-10 14:09 G 40121295.07 40121295.09 40121295.11 0.2655 0.2602

Mars 105141-07-31 05:59 G 40123232.65 40123232.75 40123232.84 0.1672 0.0962

Venus 105142-02-26 07:40 G 40123442.68 40123442.82 40123442.97 0.3716 0.1490

Jupiter 105142-05-27 20:23 G 40123533.17 40123533.35 40123533.54 0.0513 0.0021

Mars 105143-07-06 08:52 G 40123937.80 40123937.87 40123937.94 0.1648 0.1317

Venus 105146-02-21 05:01 G 40124898.64 40124898.71 40124898.78 0.3662 0.2668

Saturn 105146-02-23 08:37 G 40124900.76 40124900.86 40124900.96 0.0297 0.0176

Saturn 105146-05-22 20:52 G 40124989.24 40124989.37 40124989.50 0.0297 0.0004

Saturn 105146-08-19 08:52 G 40125077.77 40125077.87 40125077.98 0.0296 0.0171

Jupiter 105147-10-30 15:06 G 40125515.11 40125515.13 40125515.16 0.0516 0.0499

Jupiter 105148-01-27 19:40 G 40125604.20 40125604.32 40125604.45 0.0513 0.0132

Earth 105149-04-13 06:42 G 40126045.68 40126045.78 40126045.87 0.2651 0.1154

Moon 105149-04-13 06:57 G 40126045.70 40126045.79 40126045.89 0.2646 0.1073 *

Mars 105150-12-21 17:01 G 40126663.17 40126663.21 40126663.25 0.1678 0.1535

Venus 105151-09-06 20:23 G 40126922.25 40126922.35 40126922.45 0.3659 0.0908

Mars 105152-01-24 20:23 G 40127062.21 40127062.35 40127062.50 0.1887 0.0971

Mars 105152-11-25 20:09 G 40127368.24 40127368.34 40127368.44 0.1654 0.0779

Jupiter 105154-03-15 15:35 G 40127842.98 40127843.15 40127843.31 0.0511 0.0231

Venus 105157-03-22 11:45 G 40128945.89 40128945.99 40128946.09 0.3656 0.0839

Uranus 105157-06-18 10:04 G 40129033.92 40129033.92 40129033.94 0.0141 0.0140

Uranus 105157-09-14 13:40 G 40129122.01 40129122.07 40129122.14 0.0141 0.0119

Uranus 105157-12-11 17:01 G 40129210.13 40129210.21 40129210.31 0.0141 0.0099

Uranus 105158-03-09 20:37 G 40129298.25 40129298.36 40129298.47 0.0141 0.0078

Uranus 105158-06-05 23:59 G 40129386.39 40129386.50 40129386.63 0.0141 0.0058

Uranus 105158-09-02 03:35 G 40129474.52 40129474.65 40129474.78 0.0141 0.0038

Moon 105158-10-16 22:04 G 40129519.29 40129519.42 40129519.55 0.2684 0.1596

Earth 105158-10-16 23:45 G 40129519.35 40129519.49 40129519.64 0.2682 0.1242 *

Uranus 105158-11-29 06:57 G 40129562.66 40129562.79 40129562.93 0.0141 0.0018

Uranus 105159-02-25 10:33 G 40129650.81 40129650.94 40129651.07 0.0141 0.0004

Uranus 105159-05-24 13:54 G 40129738.95 40129739.08 40129739.21 0.0141 0.0024

Uranus 105159-08-20 17:16 G 40129827.10 40129827.22 40129827.35 0.0141 0.0044

Jupiter 105159-11-16 00:13 G 40129914.39 40129914.51 40129914.64 0.0514 0.0031

Uranus 105159-11-16 20:52 G 40129915.25 40129915.37 40129915.48 0.0141 0.0065

Uranus 105160-02-12 23:59 G 40130003.41 40130003.50 40130003.61 0.0142 0.0086

Uranus 105160-05-11 03:35 G 40130091.57 40130091.65 40130091.74 0.0142 0.0106

Uranus 105160-08-07 06:57 G 40130179.74 40130179.79 40130179.85 0.0142 0.0126

Mars 105161-06-15 13:25 G 40130491.90 40130492.06 40130492.21 0.1878 0.0704

Saturn 105161-09-03 23:30 G 40130572.32 40130572.48 40130572.64 0.0265 0.0136

Saturn 105161-12-01 21:06 G 40130661.19 40130661.38 40130661.57 0.0265 0.0049

Saturn 105162-02-28 18:42 G 40130750.20 40130750.28 40130750.37 0.0266 0.0236

Moon 105162-04-15 23:30 G 40130796.37 40130796.48 40130796.58 0.2644 0.0362

Earth 105162-04-15 23:45 G 40130796.38 40130796.49 40130796.59 0.2650 0.0399 *

Mars 105162-04-18 07:25 G 40130798.70 40130798.81 40130798.92 0.1659 0.0229

Venus 105162-10-06 03:06 G 40130969.56 40130969.63 40130969.70 0.3653 0.2548

Jupiter 105166-01-01 11:45 G 40132152.91 40132152.99 40132153.06 0.0511 0.0464

Jupiter 105166-04-02 00:57 G 40132243.47 40132243.54 40132243.61 0.0514 0.0473

Jupiter 105171-09-04 04:47 G 40134224.58 40134224.70 40134224.82 0.0515 0.0183

Mars 105171-09-08 18:42 G 40134229.17 40134229.28 40134229.39 0.1665 0.0330

Moon 105171-10-20 08:37 G 40134270.85 40134270.86 40134270.87 0.2689 0.2680

Jupiter 105171-12-02 08:52 G 40134313.81 40134313.87 40134313.94 0.0512 0.0436

Moon 105175-04-18 16:04 G 40135547.09 40135547.17 40135547.25 0.2647 0.1785

Earth 105175-04-18 16:47 G 40135547.12 40135547.20 40135547.27 0.2648 0.1927 *

Saturn 105175-07-13 11:45 G 40135632.90 40135632.99 40135633.08 0.0297 0.0215

Saturn 105175-10-09 23:45 G 40135721.37 40135721.49 40135721.62 0.0297 0.0042

Saturn 105176-01-06 11:59 G 40135809.88 40135810.00 40135810.11 0.0296 0.0132

Jupiter 105178-01-18 21:06 G 40136553.21 40136553.38 40136553.54 0.0513 0.0237

Mars 105181-01-29 05:59 G 40137659.65 40137659.75 40137659.84 0.1672 0.0898

Earth 105182-04-11 18:13 G 40138097.22 40138097.26 40138097.31 0.2652 0.2380

Moon 105182-04-11 18:28 G 40138097.22 40138097.27 40138097.33 0.2647 0.2265 *

Mars 105183-01-04 08:52 G 40138364.81 40138364.87 40138364.93 0.1648 0.1388

Jupiter 105183-06-23 09:21 G 40138534.79 40138534.89 40138534.98 0.0515 0.0340

Jupiter 105183-09-20 13:40 G 40138623.96 40138624.07 40138624.17 0.0513 0.0283

Jupiter 105189-11-06 17:30 G 40140863.04 40140863.23 40140863.41 0.0513 0.0008

Mars 105190-06-21 16:47 G 40141090.15 40141090.20 40141090.26 0.1678 0.1474

Saturn 105191-01-21 22:47 G 40141304.32 40141304.45 40141304.58 0.0264 0.0186

Saturn 105191-04-20 20:23 G 40141393.15 40141393.35 40141393.54 0.0265 0.0005

Saturn 105191-07-18 17:45 G 40141482.11 40141482.24 40141482.39 0.0265 0.0185

Mars 105191-07-25 21:21 G 40141489.26 40141489.39 40141489.53 0.1887 0.1142

Mars 105192-05-26 20:09 G 40141795.24 40141795.34 40141795.44 0.1653 0.0845

Neptune 105193-12-11 16:47 G 40142359.18 40142359.20 40142359.26 0.0090 0.0088

Neptune 105194-03-09 20:37 G 40142447.28 40142447.36 40142447.47 0.0090 0.0077

Neptune 105194-06-06 00:13 G 40142535.40 40142535.51 40142535.66 0.0090 0.0067

Neptune 105194-09-02 04:18 G 40142623.53 40142623.68 40142623.84 0.0090 0.0056

Neptune 105194-11-29 07:54 G 40142711.67 40142711.83 40142712.01 0.0090 0.0046

Neptune 105195-02-25 11:45 G 40142799.82 40142799.99 40142800.18 0.0090 0.0035

Jupiter 105195-04-11 13:11 G 40142845.04 40142845.05 40142845.08 0.0516 0.0508

Moon 105195-04-14 11:01 G 40142847.86 40142847.96 40142848.06 0.2645 0.0940

Earth 105195-04-14 11:16 G 40142847.87 40142847.97 40142848.07 0.2651 0.0834 *

Neptune 105195-05-24 15:21 G 40142887.96 40142888.14 40142888.34 0.0090 0.0025

Jupiter 105195-07-09 17:59 G 40142934.12 40142934.25 40142934.37 0.0513 0.0123

Neptune 105195-08-20 19:25 G 40142976.12 40142976.31 40142976.50 0.0090 0.0014

Neptune 105195-11-16 23:16 G 40143064.27 40143064.47 40143064.66 0.0090 0.0003

Neptune 105196-02-13 02:52 G 40143152.43 40143152.62 40143152.82 0.0090 0.0008

Neptune 105196-05-11 06:28 G 40143240.59 40143240.77 40143240.97 0.0090 0.0019

Neptune 105196-08-07 10:18 G 40143328.75 40143328.93 40143329.12 0.0090 0.0029

Neptune 105196-11-03 13:54 G 40143416.92 40143417.08 40143417.27 0.0090 0.0040

Neptune 105197-01-30 17:30 G 40143505.09 40143505.23 40143505.41 0.0090 0.0051

Neptune 105197-04-28 21:35 G 40143593.27 40143593.40 40143593.55 0.0090 0.0061

Neptune 105197-07-26 01:11 G 40143681.45 40143681.55 40143681.69 0.0090 0.0072

Neptune 105197-10-22 05:16 G 40143769.65 40143769.72 40143769.80 0.0090 0.0082

Uranus 105198-07-08 14:09 G 40144029.02 40144029.09 40144029.20 0.0137 0.0121

Venus 105198-10-03 10:33 G 40144115.78 40144115.94 40144116.09 0.3717 0.0552

Uranus 105198-10-04 22:04 G 40144117.28 40144117.42 40144117.56 0.0137 0.0094

Uranus 105199-01-01 05:30 G 40144205.57 40144205.73 40144205.91 0.0137 0.0066

Uranus 105199-03-30 13:11 G 40144293.87 40144294.05 40144294.24 0.0137 0.0039

Uranus 105199-06-26 20:52 G 40144382.18 40144382.37 40144382.57 0.0137 0.0012

Uranus 105199-09-23 04:33 G 40144470.50 40144470.69 40144470.88 0.0137 0.0016

Uranus 105199-12-20 11:59 G 40144558.83 40144559.00 40144559.19 0.0137 0.0044

Uranus 105200-03-17 19:54 G 40144647.16 40144647.33 40144647.49 0.0137 0.0071

Uranus 105200-06-14 03:21 G 40144735.51 40144735.64 40144735.78 0.0137 0.0099

Uranus 105200-09-10 11:01 G 40144823.90 40144823.96 40144824.04 0.0137 0.0126

Mars 105200-12-14 14:23 G 40144918.94 40144919.10 40144919.26 0.1878 0.0543

Jupiter 105201-08-25 13:25 G 40145172.90 40145173.06 40145173.23 0.0512 0.0230

Mars 105201-10-17 07:25 G 40145225.69 40145225.81 40145225.92 0.1659 0.0301

Venus 105202-09-28 02:23 G 40145571.52 40145571.60 40145571.69 0.3661 0.2063

Moon 105204-10-17 06:28 G 40146321.61 40146321.77 40146321.93 0.2689 0.0628

Earth 105204-10-17 06:42 G 40146321.62 40146321.78 40146321.94 0.2682 0.0503 *

Saturn 105204-11-29 14:23 G 40146365.04 40146365.10 40146365.16 0.0298 0.0258

Saturn 105205-02-26 02:37 G 40146453.49 40146453.61 40146453.74 0.0297 0.0082

Saturn 105205-05-25 14:37 G 40146541.99 40146542.11 40146542.24 0.0296 0.0093

Saturn 105205-08-22 02:52 G 40146630.56 40146630.62 40146630.67 0.0296 0.0263

Jupiter 105207-04-27 22:18 G 40147244.31 40147244.43 40147244.56 0.0514 0.0037

Venus 105208-04-12 17:59 G 40147595.14 40147595.25 40147595.35 0.3658 0.0338

Moon 105208-04-16 03:35 G 40147598.55 40147598.65 40147598.76 0.2651 0.0660

Earth 105208-04-16 04:18 G 40147598.58 40147598.68 40147598.79 0.2649 0.0708 *

Mars 105211-03-09 18:42 G 40148656.17 40148656.28 40148656.39 0.1665 0.0257

Jupiter 105213-06-13 08:52 G 40149482.81 40149482.87 40149482.94 0.0511 0.0473

Jupiter 105213-09-11 22:18 G 40149573.35 40149573.43 40149573.51 0.0513 0.0463

Venus 105213-10-27 09:21 G 40149618.79 40149618.89 40149618.98 0.3655 0.1434

Jupiter 105219-02-14 02:52 G 40151554.50 40151554.62 40151554.74 0.0515 0.0195

Venus 105219-05-13 00:28 G 40151642.47 40151642.52 40151642.57 0.3652 0.3126

Jupiter 105219-05-14 06:57 G 40151643.73 40151643.79 40151643.86 0.0513 0.0426

Saturn 105220-06-09 23:59 G 40152036.41 40152036.50 40152036.61 0.0265 0.0220

Mars 105220-07-30 05:45 G 40152086.64 40152086.74 40152086.84 0.1672 0.0826

Saturn 105220-09-06 21:35 G 40152125.21 40152125.40 40152125.59 0.0265 0.0036

Saturn 105220-12-04 19:11 G 40152214.15 40152214.30 40152214.46 0.0266 0.0151

Moon 105221-04-18 21:21 G 40152349.33 40152349.39 40152349.45 0.2654 0.2162

Earth 105221-04-18 21:21 G 40152349.34 40152349.39 40152349.45 0.2648 0.2240 *

Mars 105222-07-05 08:52 G 40152791.82 40152791.87 40152791.92 0.1647 0.1459

Jupiter 105225-06-30 17:59 G 40153883.08 40153883.25 40153883.42 0.0513 0.0221

Moon 105228-04-11 22:33 G 40154899.38 40154899.44 40154899.50 0.2647 0.2129

Earth 105228-04-11 23:01 G 40154899.39 40154899.46 40154899.53 0.2652 0.2057 *

Mars 105229-12-20 16:47 G 40155517.14 40155517.20 40155517.27 0.1678 0.1405

Jupiter 105230-12-03 07:11 G 40155864.71 40155864.80 40155864.89 0.0516 0.0354

Mars 105231-01-23 22:33 G 40155916.32 40155916.44 40155916.56 0.1887 0.1316

Jupiter 105231-03-02 11:30 G 40155953.88 40155953.98 40155954.09 0.0513 0.0272

Mars 105231-11-25 19:54 G 40156222.24 40156222.33 40156222.43 0.1653 0.0917

Saturn 105234-04-18 17:45 G 40157097.22 40157097.24 40157097.27 0.0298 0.0291

Saturn 105234-07-16 05:59 G 40157185.63 40157185.75 40157185.87 0.0297 0.0115

Saturn 105234-10-12 18:13 G 40157274.13 40157274.26 40157274.38 0.0296 0.0059

Saturn 105235-01-09 05:59 G 40157362.68 40157362.75 40157362.84 0.0296 0.0230

Jupiter 105237-04-18 13:54 G 40158192.90 40158193.08 40158193.27 0.0512 0.0018

Mars 105240-06-14 15:06 G 40159345.96 40159346.13 40159346.30 0.1878 0.0396

Moon 105241-04-14 15:21 G 40159650.04 40159650.14 40159650.25 0.2653 0.0623

Earth 105241-04-14 16:04 G 40159650.06 40159650.17 40159650.27 0.2650 0.0516 *

Mars 105241-04-17 07:25 G 40159652.69 40159652.81 40159652.92 0.1659 0.0371

Uranus 105241-07-08 17:30 G 40159735.20 40159735.23 40159735.27 0.0141 0.0134

Uranus 105241-10-04 21:06 G 40159823.30 40159823.38 40159823.46 0.0141 0.0114

Uranus 105242-01-01 00:28 G 40159911.43 40159911.52 40159911.62 0.0141 0.0094

Uranus 105242-03-30 04:04 G 40159999.56 40159999.67 40159999.78 0.0141 0.0073

Uranus 105242-06-26 07:25 G 40160087.69 40160087.81 40160087.93 0.0141 0.0053

Jupiter 105242-09-21 11:45 G 40160174.98 40160174.99 40160175.00 0.0516 0.0511

Uranus 105242-09-22 10:47 G 40160175.83 40160175.95 40160176.08 0.0141 0.0033

Uranus 105242-12-19 14:23 G 40160263.97 40160264.10 40160264.23 0.0141 0.0012

Jupiter 105242-12-19 16:18 G 40160264.06 40160264.18 40160264.30 0.0513 0.0118 *

Uranus 105243-03-17 17:45 G 40160352.11 40160352.24 40160352.37 0.0141 0.0008

Uranus 105243-06-13 21:06 G 40160440.26 40160440.38 40160440.51 0.0141 0.0029

Pluto 105243-08-06 22:33 G 40160494.43 40160494.44 40160494.49 0.0060 0.0059

Uranus 105243-09-10 00:28 G 40160528.40 40160528.52 40160528.65 0.0141 0.0050

Pluto 105243-11-02 23:59 G 40160582.40 40160582.50 40160582.62 0.0060 0.0049

Uranus 105243-12-07 04:04 G 40160616.56 40160616.67 40160616.78 0.0141 0.0070

Pluto 105244-01-30 00:57 G 40160670.42 40160670.54 40160670.71 0.0060 0.0040

Uranus 105244-03-04 07:25 G 40160704.71 40160704.81 40160704.91 0.0141 0.0090

Pluto 105244-04-27 02:23 G 40160758.45 40160758.60 40160758.79 0.0060 0.0030

Uranus 105244-05-31 10:47 G 40160792.88 40160792.95 40160793.04 0.0142 0.0111

Pluto 105244-07-24 04:04 G 40160846.49 40160846.67 40160846.86 0.0060 0.0020

Uranus 105244-08-27 14:09 G 40160881.05 40160881.09 40160881.15 0.0142 0.0131

Pluto 105244-10-20 05:30 G 40160934.54 40160934.73 40160934.92 0.0060 0.0010

Pluto 105245-01-16 06:42 G 40161022.59 40161022.78 40161022.98 0.0060 0.0001

Pluto 105245-04-14 07:54 G 40161110.64 40161110.83 40161111.03 0.0060 0.0010

Pluto 105245-07-11 09:21 G 40161198.71 40161198.89 40161199.08 0.0060 0.0019

Pluto 105245-10-07 10:33 G 40161286.78 40161286.94 40161287.12 0.0060 0.0029

Pluto 105246-01-03 11:30 G 40161374.85 40161374.98 40161375.15 0.0060 0.0040

Pluto 105246-04-01 12:42 G 40161462.95 40161463.03 40161463.17 0.0060 0.0050

Pluto 105246-06-28 13:54 G 40161551.08 40161551.08 40161551.15 0.0060 0.0060

Jupiter 105249-02-04 10:33 G 40162502.78 40162502.94 40162503.10 0.0512 0.0246

Saturn 105250-01-24 20:52 G 40162857.20 40162857.37 40162857.56 0.0265 0.0086

Saturn 105250-04-23 18:28 G 40162946.10 40162946.27 40162946.45 0.0265 0.0100

Mars 105250-09-07 18:28 G 40163083.16 40163083.27 40163083.39 0.1665 0.0201

Earth 105250-10-18 13:40 G 40163123.91 40163124.07 40163124.24 0.2682 0.0246

Moon 105250-10-18 15:35 G 40163123.99 40163124.15 40163124.30 0.2684 0.0600 *

Venus 105253-10-19 08:23 G 40164220.81 40164220.85 40164220.90 0.3663 0.3229

Moon 105254-04-17 08:52 G 40164400.77 40164400.87 40164400.97 0.2655 0.0983

Earth 105254-04-17 09:06 G 40164400.78 40164400.88 40164400.98 0.2649 0.1023 *

Jupiter 105254-10-07 20:37 G 40164574.23 40164574.36 40164574.48 0.0514 0.0047

Venus 105255-05-10 13:11 G 40164788.94 40164789.05 40164789.16 0.3719 0.2600

Venus 105259-05-04 23:59 G 40166244.40 40166244.50 40166244.59 0.3660 0.1456

Mars 105260-01-29 05:45 G 40166513.64 40166513.74 40166513.84 0.1672 0.0758

Jupiter 105260-11-23 06:57 G 40166812.72 40166812.79 40166812.85 0.0511 0.0476

Jupiter 105261-02-21 20:09 G 40166903.26 40166903.34 40166903.42 0.0514 0.0462

Mars 105262-01-03 08:37 G 40167218.82 40167218.86 40167218.90 0.1647 0.1525

Saturn 105263-12-03 08:37 G 40167917.75 40167917.86 40167917.97 0.0297 0.0159

Saturn 105264-02-29 20:52 G 40168006.24 40168006.37 40168006.50 0.0297 0.0016

Saturn 105264-05-28 08:52 G 40168094.77 40168094.87 40168094.97 0.0296 0.0188

Venus 105264-11-17 15:21 G 40168268.04 40168268.14 40168268.24 0.3657 0.0301

Jupiter 105266-07-27 00:57 G 40168884.42 40168884.54 40168884.66 0.0515 0.0203

Jupiter 105266-10-24 05:16 G 40168973.65 40168973.72 40168973.79 0.0512 0.0416

Earth 105267-04-20 02:09 G 40169151.56 40169151.59 40169151.61 0.2648 0.2550

Mars 105269-06-20 16:47 G 40169944.14 40169944.20 40169944.27 0.1678 0.1333

Venus 105270-06-03 06:42 G 40170291.69 40170291.78 40170291.86 0.3654 0.2014

Mars 105270-07-24 23:01 G 40170343.36 40170343.46 40170343.57 0.1887 0.1443

Mars 105271-05-26 19:54 G 40170649.24 40170649.33 40170649.43 0.1653 0.0990

Jupiter 105272-12-10 15:21 G 40171212.97 40171213.14 40171213.31 0.0513 0.0212

Moon 105274-04-13 03:06 G 40171701.56 40171701.63 40171701.71 0.2655 0.1898

Earth 105274-04-13 03:49 G 40171701.58 40171701.66 40171701.74 0.2652 0.1739 *

Neptune 105274-07-08 08:09 G 40171787.81 40171787.84 40171787.88 0.0088 0.0084

Neptune 105274-10-04 09:06 G 40171875.84 40171875.88 40171875.96 0.0088 0.0078

Neptune 105274-12-31 10:33 G 40171963.87 40171963.94 40171964.03 0.0088 0.0071

Neptune 105275-03-29 11:59 G 40172051.92 40172052.00 40172052.09 0.0088 0.0064

Neptune 105275-06-25 13:11 G 40172139.96 40172140.05 40172140.16 0.0088 0.0057

Neptune 105275-09-21 14:37 G 40172228.00 40172228.11 40172228.22 0.0088 0.0050

Neptune 105275-12-18 15:49 G 40172316.05 40172316.16 40172316.28 0.0088 0.0044

Neptune 105276-03-15 17:01 G 40172404.10 40172404.21 40172404.34 0.0088 0.0037

Neptune 105276-06-11 18:28 G 40172492.15 40172492.27 40172492.39 0.0088 0.0030

Neptune 105276-09-07 19:40 G 40172580.20 40172580.32 40172580.45 0.0088 0.0023

Neptune 105276-12-04 20:52 G 40172668.25 40172668.37 40172668.51 0.0088 0.0017

Neptune 105277-03-02 22:18 G 40172756.30 40172756.43 40172756.56 0.0088 0.0010

Neptune 105277-05-29 23:30 G 40172844.35 40172844.48 40172844.61 0.0088 0.0003

Neptune 105277-08-26 00:42 G 40172932.40 40172932.53 40172932.67 0.0088 0.0005

Neptune 105277-11-22 02:09 G 40173020.46 40173020.59 40173020.72 0.0088 0.0011

Neptune 105278-02-18 03:21 G 40173108.51 40173108.64 40173108.77 0.0088 0.0017

Jupiter 105278-05-15 05:16 G 40173194.63 40173194.72 40173194.81 0.0516 0.0366

Neptune 105278-05-17 04:33 G 40173196.57 40173196.69 40173196.82 0.0088 0.0024

Jupiter 105278-08-12 09:35 G 40173283.80 40173283.90 40173284.01 0.0513 0.0261

Neptune 105278-08-13 05:45 G 40173284.62   40173284.74   40173284.87 0.0088 0.0031

Neptune 105278-11-09 06:57 G 40173372.68   40173372.79   40173372.92 0.0088 0.0038

Neptune 105279-02-05 08:09 G 40173460.74   40173460.84   40173460.96 0.0088 0.0045

Neptune 105279-05-04 09:35 G 40173548.80   40173548.90   40173549.01 0.0088 0.0051

Saturn   105279-06-13 22:18 G 40173589.26   40173589.43   40173589.60 0.0265 0.0120

Neptune 105279-07-31 10:47 G 40173636.86   40173636.95   40173637.05 0.0088 0.0058

Saturn   105279-09-10 19:54 G 40173678.14   40173678.33   40173678.51 0.0265 0.0065

Neptune 105279-10-27 11:45 G 40173724.92   40173724.99   40173725.09 0.0088 0.0065

Saturn   105279-12-08 17:30 G 40173767.18   40173767.23   40173767.29 0.0266 0.0252

Mars   105279-12-14 16:18 G 40173773.01   40173773.18   40173773.35 0.1879 0.0230

Neptune 105280-01-23 13:11 G 40173812.98   40173813.05   40173813.13 0.0088 0.0071

Neptune 105280-04-20 14:23 G 40173901.05   40173901.10   40173901.17 0.0088 0.0078

Neptune 105280-07-17 15:35 G 40173989.13   40173989.15   40173989.19 0.0088 0.0085

Mars   105280-10-16 07:11 G 40174079.69   40174079.80   40174079.92 0.1659 0.0441

Uranus   105282-07-28 22:04 G 40174730.32   40174730.42   40174730.53 0.0137 0.0112

Uranus   105282-10-25 05:30 G 40174818.59   40174818.73   40174818.89 0.0137 0.0085

Uranus   105283-01-21 13:25 G 40174906.88   40174907.06   40174907.23 0.0137 0.0058

Uranus   105283-04-19 21:06 G 40174995.19   40174995.38   40174995.57 0.0137 0.0030

Uranus   105283-07-17 04:47 G 40175083.50   40175083.70   40175083.89 0.0137 0.0004

Uranus   105283-10-13 12:13 G 40175171.82   40175172.01   40175172.21 0.0137 0.0025

Uranus   105284-01-09 19:40 G 40175260.15   40175260.32   40175260.51 0.0137 0.0053

Uranus   105284-04-07 03:35 G 40175348.50   40175348.65   40175348.81 0.0137 0.0080

Uranus   105284-07-04 11:01 G 40175436.85   40175436.96   40175437.09 0.0137 0.0108

Jupiter 105284-09-28 11:16 G 40175522.78   40175522.97   40175523.15 0.0512 0.0029

Uranus   105284-09-30 18:42 G 40175525.27   40175525.28   40175525.32 0.0137 0.0135

Moon   105287-04-15 20:52 G 40176452.26   40176452.37   40176452.47 0.2657 0.0173

Earth   105287-04-15 20:52 G 40176452.26   40176452.37   40176452.47 0.2650 0.0222 *

Mars   105290-03-08 18:28 G 40177510.16   40177510.27   40177510.39 0.1665 0.0127

Jupiter 105290-05-31 14:23 G 40177593.97   40177594.10   40177594.22 0.0514 0.0106

Saturn   105293-04-21 11:59 G 40178649.90   40178650.00   40178650.10 0.0297 0.0192

Saturn 105293-07-19 00:13 G 40178738.38 40178738.51 40178738.64 0.0297 0.0017

Saturn 105293-10-15 12:13 G 40178826.90 40178827.01 40178827.12 0.0296 0.0155

Jupiter 105296-07-17 06:57 G 40179832.64 40179832.79 40179832.95 0.0512 0.0268

Earth 105296-10-18 20:52 G 40179926.22 40179926.37 40179926.52 0.2683 0.1004

Moon 105296-10-18 22:04 G 40179926.27 40179926.42 40179926.56 0.2677 0.1247 *

Mars 105299-07-30 05:45 G 40180940.63 40180940.74 40180940.84 0.1671 0.0689

Earth 105300-04-18 13:54 G 40181202.98 40181203.08 40181203.17 0.2649 0.1342

Moon 105300-04-18 14:23 G 40181203.01 40181203.10 40181203.19 0.2651 0.1391 *

Mars 105301-07-05 08:37 G 40181645.84 40181645.86 40181645.89 0.1647 0.1595

Jupiter 105302-03-20 18:57 G 40181904.16 40181904.29 40181904.42 0.0514 0.0048

Venus 105306-06-01 04:33 G 40183437.56 40183437.69 40183437.83 0.3715 0.1906

Jupiter 105308-05-06 03:35 G 40184142.61 40184142.65 40184142.70 0.0511 0.0492

Jupiter 105308-08-04 17:01 G 40184233.12 40184233.21 40184233.30 0.0514 0.0445

Saturn 105308-10-31 21:21 G 40184321.25 40184321.39 40184321.55 0.0264 0.0169

Mars 105308-12-20 16:47 G 40184371.13 40184371.20 40184371.27 0.1678 0.1267

Saturn 105309-01-28 18:57 G 40184410.10 40184410.29 40184410.49 0.0265 0.0016

Saturn 105309-04-27 16:47 G 40184499.07 40184499.20 40184499.32 0.0265 0.0201

Mars 105310-01-24 00:13 G 40184770.43 40184770.51 40184770.60 0.1888 0.1627

Venus 105310-05-27 05:59 G 40184893.68 40184893.75 40184893.82 0.3662 0.2619

Mars 105310-11-25 19:54 G 40185076.24 40185076.33 40185076.42 0.1653 0.1055

Jupiter 105314-01-06 23:01 G 40186214.35 40186214.46 40186214.58 0.0515 0.0212

Jupiter 105314-04-06 03:21 G 40186303.57 40186303.64 40186303.72 0.0512 0.0408

Venus 105315-12-10 21:21 G 40186917.29 40186917.39 40186917.49 0.3659 0.0858

Mars 105319-06-15 17:01 G 40188200.04 40188200.21 40188200.38 0.1878 0.0080

Earth 105320-04-14 08:23 G 40188503.76 40188503.85 40188503.94 0.2651 0.1419

Moon 105320-04-14 08:37 G 40188503.77 40188503.86 40188503.95 0.2658 0.1383 *

Mars 105320-04-17 07:11 G 40188506.69 40188506.80 40188506.91 0.1659 0.0504

Jupiter 105320-05-23 13:11 G 40188542.88 40188543.05 40188543.22 0.0513 0.0209

Venus 105321-06-25 12:42 G 40188940.93 40188941.03 40188941.13 0.3656 0.0880

Saturn 105322-09-09 14:23 G 40189382.03 40189382.10 40189382.18 0.0298 0.0240

Saturn 105322-12-07 02:37 G 40189470.48 40189470.61 40189470.74 0.0297 0.0064

Saturn 105323-03-05 14:52 G 40189559.00 40189559.12 40189559.24 0.0296 0.0110

Saturn 105323-06-02 02:37 G 40189647.58 40189647.61 40189647.66 0.0296 0.0281

Uranus 105325-07-30 01:25 G 40190436.51 40190436.56 40190436.62 0.0141 0.0127

Jupiter 105325-10-26 03:35 G 40190524.56 40190524.65 40190524.73 0.0516 0.0372

Uranus 105325-10-26 04:47 G 40190524.62 40190524.70 40190524.79 0.0141 0.0106 *

Uranus 105326-01-22 08:23 G 40190612.74 40190612.85 40190612.95 0.0141 0.0086

Jupiter 105326-01-23 07:54 G 40190613.72 40190613.83 40190613.94 0.0513 0.0253

Uranus 105326-04-20 11:45 G 40190700.88 40190700.99 40190701.11 0.0141 0.0066

Uranus 105326-07-17 15:06 G 40190789.01 40190789.13 40190789.26 0.0141 0.0046

Uranus 105326-10-13 18:42 G 40190877.15 40190877.28 40190877.41 0.0141 0.0025

Venus 105327-01-09 04:04 G 40190964.59 40190964.67 40190964.74 0.3653 0.2584

Uranus 105327-01-09 22:04 G 40190965.29 40190965.42 40190965.55 0.0141 0.0005

Uranus 105327-04-08 01:25 G 40191053.43 40191053.56 40191053.70 0.0141 0.0017

Uranus 105327-07-05 05:01 G 40191141.58 40191141.71 40191141.84 0.0141 0.0036

Uranus 105327-10-01 08:23 G 40191229.73 40191229.85 40191229.97 0.0141 0.0057

Uranus 105327-12-28 11:45 G 40191317.88 40191317.99 40191318.10 0.0141 0.0077

Uranus 105328-03-25 15:06 G 40191406.04 40191406.13 40191406.23 0.0141 0.0098

Uranus 105328-06-21 18:42 G 40191494.21 40191494.28 40191494.35 0.0141 0.0118

Uranus 105328-09-17 21:49 G 40191582.40 40191582.41 40191582.45 0.0142 0.0139

Mars 105328-11-04 09:49 G 40191629.86 40191629.91 40191629.97 0.1869 0.1750

Mars 105329-09-07 18:28 G 40191937.16 40191937.27 40191937.39 0.1665 0.0071

Earth 105329-10-17 18:13 G 40191977.17 40191977.26 40191977.35 0.2681 0.2186

Moon 105329-10-17 18:42 G 40191977.17 40191977.28 40191977.38 0.2674 0.2028 *

Jupiter 105332-03-11 08:37 G 40192852.68 40192852.86 40192853.05 0.0512 0.0037

Earth 105333-04-17 01:25 G 40193254.46 40193254.56 40193254.67 0.2650 0.0139

Moon 105333-04-17 02:09 G 40193254.48 40193254.59 40193254.70 0.2651 0.0212 *

Jupiter 105337-11-11 12:13 G 40194923.89 40194924.01 40194924.14 0.0514 0.0097

Saturn 105338-03-20 22:18 G 40195053.32 40195053.43 40195053.55 0.0265 0.0207

Saturn 105338-06-17 19:54 G 40195142.14 40195142.33 40195142.52 0.0265 0.0023

Saturn 105338-09-14 17:30 G 40195231.08 40195231.23 40195231.38 0.0266 0.0163

Mars 105339-01-29 05:45 G 40195367.63 40195367.74 40195367.84 0.1671 0.0624

Pluto 105339-01-31 15:06 G 40195370.07 40195370.13 40195370.20 0.0084 0.0071

Pluto 105339-04-29 16:18 G 40195458.08 40195458.18 40195458.29 0.0084 0.0053

Pluto 105339-07-26 17:30 G 40195546.11 40195546.23 40195546.36 0.0084 0.0034

Pluto 105339-10-22 18:57 G 40195634.16 40195634.29 40195634.42 0.0084 0.0015

Pluto 105340-01-18 20:09 G 40195722.20 40195722.34 40195722.47 0.0084 0.0004

Pluto 105340-04-15 21:06 G 40195810.26 40195810.38 40195810.52 0.0084 0.0023

Pluto 105340-07-12 22:18 G 40195898.32 40195898.43 40195898.55 0.0083 0.0041

Pluto 105340-10-08 23:30 G 40195986.39 40195986.48 40195986.58 0.0083 0.0059

Pluto 105341-01-05 00:42 G 40196074.49 40196074.53 40196074.58 0.0083 0.0077

Moon 105342-10-21 02:37 G 40196728.47 40196728.61 40196728.75 0.2678 0.1480

Earth 105342-10-21 03:49 G 40196728.53 40196728.66 40196728.78 0.2683 0.1752 *

Jupiter 105343-12-29 04:47 G 40197162.54 40197162.70 40197162.85 0.0511 0.0271

Earth 105346-04-19 18:28 G 40198005.19 40198005.27 40198005.36 0.2649 0.1658

Moon 105346-04-19 18:57 G 40198005.21 40198005.29 40198005.37 0.2644 0.1762 *

Mars 105348-06-20 16:47 G 40198798.12 40198798.20 40198798.28 0.1678 0.1198

Mars 105349-07-25 01:11 G 40199197.50 40199197.55 40199197.61 0.1888 0.1789

Jupiter 105349-08-30 17:01 G 40199234.08 40199234.21 40199234.33 0.0514 0.0061

Mars 105350-05-26 19:54 G 40199503.24 40199503.33 40199503.41 0.1653 0.1123

Saturn 105352-01-27 17:45 G 40200114.19 40200114.24 40200114.29 0.0298 0.0273

Saturn 105352-04-25 05:59 G 40200202.63 40200202.75 40200202.88 0.0297 0.0097

Saturn 105352-07-22 18:13 G 40200291.13 40200291.26 40200291.38 0.0296 0.0077

Saturn 105352-10-19 05:59 G 40200379.69 40200379.75 40200379.83 0.0296 0.0249

Earth 105353-04-12 20:09 G 40200555.34 40200555.34 40200555.34 0.2653 0.2648

Jupiter 105355-10-17 00:28 G 40201472.51 40201472.52 40201472.52 0.0511 0.0510

Jupiter 105356-01-15 13:40 G 40201562.97 40201563.07 40201563.17 0.0514 0.0425

Neptune 105358-09-08 13:40 G 40202530.04 40202530.07 40202530.14 0.0089 0.0087

Neptune 105358-12-05 17:45 G 40202618.15 40202618.24 40202618.35 0.0089 0.0076

Mars 105358-12-14 17:59 G 40202627.08 40202627.25 40202627.42 0.1879 0.0082

Neptune 105359-03-03 21:06 G 40202706.27 40202706.38 40202706.53 0.0090 0.0066

Neptune 105359-05-31 01:11 G 40202794.40 40202794.55 40202794.71 0.0090 0.0055

Neptune 105359-08-27 04:47 G 40202882.54 40202882.70 40202882.88 0.0090 0.0045

Mars 105359-10-17 07:11 G 40202933.69 40202933.80 40202933.91 0.1659 0.0574

Neptune 105359-11-23 08:37 G 40202970.69 40202970.86 40202971.05 0.0090 0.0034

Neptune 105360-02-19 12:28 G 40203058.84 40203059.02 40203059.21 0.0090 0.0023

Neptune 105360-05-17 16:18 G 40203146.99 40203147.18 40203147.38 0.0090 0.0013

Neptune 105360-08-13 20:09 G 40203235.14 40203235.34 40203235.53 0.0090 0.0002

Neptune 105360-11-09 23:45 G 40203323.30 40203323.49 40203323.69 0.0090 0.0009

Neptune 105361-02-06 03:21 G 40203411.46 40203411.64 40203411.84 0.0090 0.0020

Neptune 105361-05-05 07:11 G 40203499.62 40203499.80 40203499.99 0.0090 0.0030

Jupiter 105361-06-18 21:35 G 40203544.29 40203544.40 40203544.52 0.0515 0.0212

Neptune 105361-08-01 10:47 G 40203587.79 40203587.95 40203588.14 0.0090 0.0041

Jupiter 105361-09-16 01:54 G 40203633.51 40203633.58 40203633.66 0.0512 0.0407

Neptune 105361-10-28 14:52 G 40203675.96 40203676.12 40203676.28 0.0090 0.0051

Neptune 105362-01-24 18:28 G 40203764.14 40203764.27 40203764.42 0.0090 0.0062

Neptune 105362-04-22 22:04 G 40203852.32 40203852.42 40203852.55 0.0090 0.0073

Neptune 105362-07-20 02:09 G 40203940.53 40203940.59 40203940.67 0.0090 0.0083

Venus 105363-01-06 07:11 G 40204110.65 40204110.80 40204110.96 0.3717 0.0125

Earth 105366-04-15 13:11 G 40205305.95 40205306.05 40205306.15 0.2651 0.1102

Moon 105366-04-15 13:54 G 40205305.97 40205306.08 40205306.18 0.2652 0.0935 *

Uranus 105366-05-22 22:18 G 40205343.38 40205343.43 40205343.49 0.0137 0.0131

Uranus 105366-08-19 05:45 G 40205431.63 40205431.74 40205431.88 0.0137 0.0104

Uranus 105366-11-15 13:25 G 40205519.91 40205520.06 40205520.23 0.0137 0.0076

Venus 105367-01-01 03:21 G 40205566.55 40205566.64 40205566.72 0.3662 0.2024

Uranus 105367-02-11 21:06 G 40205608.20 40205608.38 40205608.56 0.0137 0.0049

Uranus 105367-05-11 04:47 G 40205696.51 40205696.70 40205696.89 0.0137 0.0021

Uranus 105367-08-07 12:28 G 40205784.83 40205785.02 40205785.21 0.0137 0.0007

Saturn 105367-08-07 21:35 G 40205785.36 40205785.40 40205785.45 0.0264 0.0256

Jupiter 105367-11-03 10:04 G 40205872.75 40205872.92 40205873.09 0.0513 0.0194

Uranus 105367-11-03 20:09 G 40205873.15 40205873.34 40205873.53 0.0137 0.0034

Saturn 105367-11-04 18:57 G 40205874.11 40205874.29 40205874.48 0.0264 0.0074

Uranus 105368-01-31 03:35 G 40205961.49 40205961.65 40205961.83 0.0137 0.0062

Saturn 105368-02-01 16:33 G 40205963.02 40205963.19 40205963.37 0.0265 0.0111

Uranus 105368-04-28 11:16 G 40206049.83 40206049.97 40206050.13 0.0137 0.0089

Mars 105368-05-05 11:01 G 40206056.87 40206056.96 40206057.05 0.1870 0.1578

Uranus 105368-07-25 18:57 G 40206138.20 40206138.29 40206138.40 0.0137 0.0117

Mars 105369-03-08 18:28 G 40206364.15 40206364.27 40206364.38 0.1665 0.0035

Venus 105372-07-16 18:42 G 40207590.18 40207590.28 40207590.38 0.3659 0.0263

Jupiter 105373-04-07 01:54 G 40207854.49 40207854.58 40207854.67 0.0516 0.0375

Jupiter 105373-07-05 06:13 G 40207943.65 40207943.76 40207943.88 0.0513 0.0250

Moon 105375-10-18 23:30 G 40208779.35 40208779.48 40208779.62 0.2677 0.1599

Earth 105375-10-19 01:11 G 40208779.41 40208779.55 40208779.68 0.2682 0.1446 *

Venus 105378-01-30 10:04 G 40209613.83 40209613.92 40209614.01 0.3656 0.1459

Mars 105378-07-30 05:45 G 40209794.63 40209794.74 40209794.84 0.1671 0.0552

Earth 105379-04-18 06:13 G 40210056.65 40210056.76 40210056.87 0.2650 0.0443

Moon 105379-04-18 06:28 G 40210056.66 40210056.77 40210056.88 0.2643 0.0429 *

Jupiter 105379-08-22 06:28 G 40210182.59 40210182.77 40210182.96 0.0512 0.0038

Saturn 105381-09-12 07:54 G 40210934.72 40210934.83 40210934.94 0.0298 0.0152

Saturn 105381-12-09 20:09 G 40211023.21 40211023.34 40211023.47 0.0297 0.0024

Saturn 105382-03-08 08:09 G 40211111.75 40211111.84 40211111.94 0.0296 0.0196

Venus 105383-08-16 01:25 G 40211637.51 40211637.56 40211637.60 0.3653 0.3157

Jupiter 105385-04-23 10:47 G 40212253.83 40212253.95 40212254.08 0.0514 0.0094

Mars 105387-12-20 16:47 G 40213225.11 40213225.20 40213225.28 0.1677 0.1125

Moon 105388-10-21 09:06 G 40213530.78 40213530.88 40213530.97 0.2687 0.2192

Earth 105388-10-21 10:47 G 40213530.89 40213530.95 40213531.00 0.2683 0.2504 *

Mars 105389-11-24 19:54 G 40213930.25 40213930.33 40213930.41 0.1653 0.1197

Jupiter 105391-06-10 02:37 G 40214492.45 40214492.61 40214492.77 0.0511 0.0272

Moon 105392-04-19 22:47 G 40214807.38 40214807.45 40214807.52 0.2644 0.1953

Earth 105392-04-19 23:16 G 40214807.40 40214807.47 40214807.54 0.2649 0.1977 *

Jupiter 105397-02-09 15:06 G 40216564.01 40216564.13 40216564.26 0.0515 0.0069

Saturn 105397-03-23 19:11 G 40216606.14 40216606.30 40216606.48 0.0265 0.0117

Saturn 105397-06-20 17:01 G 40216695.02 40216695.21 40216695.39 0.0265 0.0068

Saturn 105397-09-17 14:23 G 40216784.06 40216784.10 40216784.16 0.0266 0.0255

Mars 105398-06-14 18:57 G 40217054.12 40217054.29 40217054.46 0.1879 0.0243

Earth 105399-04-14 00:42 G 40217357.49 40217357.53 40217357.58 0.2652 0.2331

Moon 105399-04-14 01:25 G 40217357.51 40217357.56 40217357.62 0.2651 0.2199 *

Mars 105399-04-17 07:11 G 40217360.69 40217360.80 40217360.90 0.1658 0.0646

Jupiter 105403-03-29 22:33 G 40218802.43 40218802.44 40218802.48 0.0510 0.0505

Jupiter 105403-06-28 11:45 G 40218892.89 40218892.99 40218893.09 0.0513 0.0428

Mars 105407-11-05 11:59 G 40220483.89 40220484.00 40220484.11 0.1870 0.1421

Mars 105408-09-07 18:28 G 40220791.15 40220791.27 40220791.38 0.1665 0.0096

Jupiter 105408-11-29 19:54 G 40220874.21 40220874.33 40220874.44 0.0515 0.0222

Jupiter 105409-02-26 23:59 G 40220963.43 40220963.50 40220963.58 0.0512 0.0399

Uranus 105409-05-24 05:45 G 40221049.73 40221049.74 40221049.74 0.0140 0.0140

Uranus 105409-08-20 09:06 G 40221137.81 40221137.88 40221137.95 0.0141 0.0120

Uranus 105409-11-16 12:28 G 40221225.93 40221226.02 40221226.12 0.0141 0.0100

Uranus 105410-02-12 16:04 G 40221314.06 40221314.17 40221314.28 0.0141 0.0079

Uranus 105410-05-11 19:25 G 40221402.19 40221402.31 40221402.43 0.0141 0.0059

Uranus 105410-08-07 22:47 G 40221490.33 40221490.45 40221490.58 0.0141 0.0039

Uranus 105410-11-04 02:23 G 40221578.47 40221578.60 40221578.73 0.0141 0.0018

Uranus 105411-01-31 05:45 G 40221666.61 40221666.74 40221666.87 0.0141 0.0003

Saturn 105411-01-31 11:01 G 40221666.86 40221666.96 40221667.06 0.0297 0.0188 *

Uranus 105411-04-29 09:06 G 40221754.75 40221754.88 40221755.01 0.0141 0.0023

Saturn 105411-04-29 23:16 G 40221755.34 40221755.47 40221755.60 0.0297 0.0013

Uranus 105411-07-26 12:28 G 40221842.90 40221843.02 40221843.15 0.0141 0.0043

Saturn 105411-07-27 11:16 G 40221843.86 40221843.97 40221844.08 0.0296 0.0161

Uranus 105411-10-22 16:04 G 40221931.05 40221931.17 40221931.29 0.0141 0.0063

Uranus 105412-01-18 19:25 G 40222019.21 40222019.31 40222019.42 0.0141 0.0084

Uranus 105412-04-15 22:47 G 40222107.37 40222107.45 40222107.54 0.0141 0.0104

Earth 105412-04-16 17:59 G 40222108.14 40222108.25 40222108.35 0.2651 0.0787

Moon 105412-04-16 17:59 G 40222108.15 40222108.25 40222108.35 0.2645 0.0773 *

Uranus 105412-07-13 02:09 G 40222195.54 40222195.59 40222195.66 0.0141 0.0124

Jupiter 105415-04-16 07:11 G 40223202.62 40223202.80 40223202.97 0.0513 0.0179

Venus 105418-01-23 09:06 G 40224215.84 40224215.88 40224215.93 0.3664 0.3194

Mars 105418-01-29 05:30 G 40224221.62 40224221.73 40224221.84 0.1671 0.0483

Venus 105419-08-14 09:49 G 40224783.78 40224783.91 40224784.04 0.3718 0.2095

Jupiter 105420-09-18 00:28 G 40225184.44 40225184.52 40225184.61 0.0516 0.0374

Jupiter 105420-12-16 05:01 G 40225273.60 40225273.71 40225273.82 0.0513 0.0251

Moon 105421-10-20 06:42 G 40225581.64 40225581.78 40225581.93 0.2686 0.0990

Earth 105421-10-20 08:09 G 40225581.68 40225581.84 40225582.00 0.2682 0.0689 *

Venus 105423-08-09 00:42 G 40226239.44 40226239.53 40226239.62 0.3661 0.1417

Moon 105425-04-19 10:33 G 40226858.83 40226858.94 40226859.04 0.2645 0.0712

Earth 105425-04-19 11:01 G 40226858.85 40226858.96 40226859.06 0.2650 0.0763 *

Saturn 105426-08-11 18:28 G 40227338.12 40227338.27 40227338.41 0.0264 0.0168

Saturn 105426-11-08 15:49 G 40227426.97 40227427.16 40227427.35 0.0264 0.0015

Jupiter 105427-02-02 03:49 G 40227512.47 40227512.66 40227512.84 0.0512 0.0049

Saturn 105427-02-05 13:11 G 40227515.93 40227516.05 40227516.18 0.0265 0.0200

Mars 105427-06-21 16:33 G 40227652.11 40227652.19 40227652.28 0.1678 0.1062

Venus 105429-02-21 16:04 G 40228263.07 40228263.17 40228263.27 0.3658 0.0337

Mars 105429-05-26 19:40 G 40228357.25 40228357.32 40228357.40 0.1653 0.1265

Jupiter 105432-10-04 09:21 G 40229583.77 40229583.89 40229584.02 0.0513 0.0096

Venus 105434-09-07 07:25 G 40230286.73 40230286.81 40230286.89 0.3655 0.2041

Mars 105436-11-11 03:49 G 40231082.64 40231082.66 40231082.68 0.1684 0.1642

Mars 105437-12-14 19:54 G 40231481.16 40231481.33 40231481.49 0.1879 0.0401

Moon 105438-04-22 03:21 G 40231609.58 40231609.64 40231609.70 0.2652 0.2155

Earth 105438-04-22 04:04 G 40231609.62 40231609.67 40231609.72 0.2648 0.2297 *

Mars 105438-10-17 06:57 G 40231787.69 40231787.79 40231787.90 0.1659 0.0719

Jupiter 105438-11-21 00:28 G 40231822.37 40231822.52 40231822.68 0.0512 0.0273

Neptune 105439-04-06 07:11 G 40231958.77 40231958.80 40231958.86 0.0088 0.0083

Neptune 105439-07-03 08:37 G 40232046.80 40232046.86 40232046.93 0.0088 0.0076

Neptune 105439-09-29 10:04 G 40232134.84 40232134.92 40232135.00 0.0088 0.0069

Neptune 105439-12-26 11:01 G 40232222.88 40232222.96 40232223.07 0.0088 0.0063

Neptune 105440-03-23 12:28 G 40232310.93 40232311.02 40232311.13 0.0088 0.0056

Saturn 105440-06-19 12:28 G 40232398.95 40232399.02 40232399.09 0.0298 0.0249

Neptune 105440-06-19 13:54 G 40232398.97 40232399.08 40232399.19 0.0088 0.0049 *

Neptune 105440-09-15 15:06 G 40232487.02 40232487.13 40232487.25 0.0088 0.0042

Saturn 105440-09-16 00:42 G 40232487.41 40232487.53 40232487.66 0.0297 0.0072

Neptune 105440-12-12 16:18 G 40232575.07 40232575.18 40232575.31 0.0088 0.0036

Saturn 105440-12-13 12:57 G 40232575.92 40232576.04 40232576.16 0.0297 0.0102

Neptune 105441-03-10 17:45 G 40232663.12 40232663.24 40232663.37 0.0088 0.0029

Saturn 105441-03-12 00:57 G 40232664.50 40232664.54 40232664.59 0.0296 0.0274

Neptune 105441-06-06 18:57 G 40232751.17 40232751.29 40232751.42 0.0088 0.0022

Neptune 105441-09-02 20:23 G 40232839.22 40232839.35 40232839.48 0.0088 0.0015

Neptune 105441-11-29 21:35 G 40232927.27 40232927.40 40232927.53 0.0088 0.0008

Neptune 105442-02-25 22:47 G 40233015.32 40233015.45 40233015.59 0.0088 0.0002

Neptune 105442-05-24 23:59 G 40233103.37 40233103.50 40233103.64 0.0088 0.0006

Neptune 105442-08-21 01:25 G 40233191.43 40233191.56 40233191.69 0.0088 0.0012

Neptune 105442-11-17 02:37 G 40233279.48 40233279.61 40233279.74 0.0088 0.0019

Neptune 105443-02-13 03:49 G 40233367.54 40233367.66 40233367.79 0.0088 0.0025

Neptune 105443-05-12 05:16 G 40233455.59 40233455.72 40233455.84 0.0088 0.0032

Neptune 105443-08-08 06:13 G 40233543.65 40233543.76 40233543.89 0.0088 0.0039

Neptune 105443-11-04 07:25 G 40233631.71 40233631.81 40233631.93 0.0088 0.0046

Neptune 105444-01-31 08:52 G 40233719.77 40233719.87 40233719.98 0.0088 0.0052

Neptune 105444-04-28 10:04 G 40233807.83 40233807.92 40233808.02 0.0088 0.0059

Jupiter 105444-07-23 13:54 G 40233893.95 40233894.08 40233894.21 0.0514 0.0063

Neptune 105444-07-25 11:16 G 40233895.89 40233895.97 40233896.06 0.0088 0.0066

Neptune 105444-10-21 12:13 G 40233983.96 40233984.01 40233984.10 0.0088 0.0073

Neptune 105445-01-17 13:40 G 40234072.03 40234072.07 40234072.13 0.0088 0.0079

Earth 105445-04-15 05:30 G 40234159.66 40234159.73 40234159.80 0.2652 0.2010

Moon 105445-04-15 05:30 G 40234159.66 40234159.73 40234159.81 0.2646 0.1940 *

Neptune 105445-04-15 14:52 G 40234160.11 40234160.12 40234160.16 0.0088 0.0086

Mars 105447-05-06 12:28 G 40234910.90 40234911.02 40234911.15 0.1870 0.1289

Mars 105448-03-08 18:28 G 40235218.15 40235218.27 40235218.38 0.1664 0.0166

Uranus 105450-06-13 06:13 G 40236044.68 40236044.76 40236044.86 0.0137 0.0121

Jupiter 105450-09-08 20:52 G 40236132.34 40236132.37 40236132.41 0.0511 0.0501

Uranus 105450-09-09 13:54 G 40236132.95 40236133.08 40236133.23 0.0137 0.0093

Uranus 105450-12-06 21:49 G 40236221.24 40236221.41 40236221.58 0.0137 0.0066

Jupiter 105450-12-08 09:49 G 40236222.82 40236222.91 40236223.02 0.0513 0.0432

Uranus 105451-03-05 05:16 G 40236309.54 40236309.72 40236309.91 0.0137 0.0038

Uranus 105451-06-01 12:57 G 40236397.85 40236398.04 40236398.24 0.0137 0.0011

Uranus 105451-08-28 20:37 G 40236486.17 40236486.36 40236486.55 0.0137 0.0017

Uranus 105451-11-25 04:18 G 40236574.50 40236574.68 40236574.86 0.0137 0.0044

Uranus 105452-02-21 11:45 G 40236662.83 40236662.99 40236663.16 0.0137 0.0072

Uranus 105452-05-19 19:11 G 40236751.19 40236751.30 40236751.45 0.0137 0.0100

Uranus 105452-08-16 03:06 G 40236839.57 40236839.63 40236839.71 0.0137 0.0127

Saturn 105455-12-29 17:59 G 40238070.14 40238070.25 40238070.36 0.0264 0.0216

Saturn 105456-03-27 15:21 G 40238158.95 40238159.14 40238159.33 0.0265 0.0033

Jupiter 105456-05-11 18:13 G 40238204.14 40238204.26 40238204.37 0.0515 0.0225

Saturn 105456-06-24 12:42 G 40238247.88 40238248.03 40238248.20 0.0265 0.0153

Jupiter 105456-08-08 22:33 G 40238293.36 40238293.44 40238293.52 0.0513 0.0395

Mars 105457-07-30 05:30 G 40238648.62 40238648.73 40238648.84 0.1671 0.0411

Moon 105458-04-17 22:04 G 40238910.31 40238910.42 40238910.52 0.2647 0.0617

Earth 105458-04-17 22:33 G 40238910.34 40238910.44 40238910.55 0.2651 0.0467 *

Jupiter 105462-09-26 05:59 G 40240532.58 40240532.75 40240532.92 0.0513 0.0192

Mars 105466-12-20 16:33 G 40242079.10 40242079.19 40242079.29 0.1677 0.0991

Earth 105467-10-21 15:06 G 40242383.97 40242384.13 40242384.29 0.2682 0.0072

Moon 105467-10-21 15:49 G 40242384.00 40242384.16 40242384.32 0.2689 0.0155 *

Jupiter 105468-02-28 22:47 G 40242514.37 40242514.45 40242514.54 0.0516 0.0379

Jupiter 105468-05-28 03:21 G 40242603.53 40242603.64 40242603.75 0.0513 0.0246

Mars 105468-11-24 19:40 G 40242784.26 40242784.32 40242784.39 0.1652 0.1335

Saturn 105469-11-06 15:06 G 40243131.11 40243131.13 40243131.16 0.0298 0.0290

Saturn 105470-02-03 03:35 G 40243219.53 40243219.65 40243219.77 0.0297 0.0113

Saturn 105470-05-02 15:35 G 40243308.03 40243308.15 40243308.28 0.0297 0.0062

Saturn 105470-07-30 03:49 G 40243396.58 40243396.66 40243396.74 0.0296 0.0234

Venus 105470-09-04 01:25 G 40243432.44 40243432.56 40243432.68 0.3714 0.2345

Moon 105471-04-20 15:06 G 40243661.04 40243661.13 40243661.23 0.2654 0.1053

Earth 105471-04-20 15:35 G 40243661.06 40243661.15 40243661.25 0.2649 0.1087 *

Jupiter 105474-07-15 01:11 G 40244842.36 40244842.55 40244842.73 0.0512 0.0057

Venus 105474-08-30 06:42 G 40244888.71 40244888.78 40244888.85 0.3663 0.2583

Mars 105476-05-12 03:35 G 40245509.62 40245509.65 40245509.69 0.1684 0.1579

Mars 105477-06-14 20:37 G 40245908.20 40245908.36 40245908.52 0.1879 0.0552

Mars 105478-04-17 06:57 G 40246214.69 40246214.79 40246214.89 0.1658 0.0786

Venus 105480-03-14 22:04 G 40246912.32 40246912.42 40246912.52 0.3660 0.0824

Jupiter 105480-03-16 08:23 G 40246913.72 40246913.85 40246913.97 0.0514 0.0101

Moon 105484-04-22 08:37 G 40248411.85 40248411.86 40248411.88 0.2654 0.2592

Earth 105484-04-22 08:37 G 40248411.85 40248411.86 40248411.88 0.2648 0.2611 *

Saturn 105485-08-14 14:09 G 40248890.91 40248891.09 40248891.27 0.0264 0.0087

Venus 105485-09-28 13:25 G 40248935.96 40248936.06 40248936.16 0.3657 0.0925

Saturn 105485-11-11 11:30 G 40248979.80 40248979.98 40248980.16 0.0264 0.0096

Jupiter 105486-05-02 22:04 G 40249152.26 40249152.42 40249152.57 0.0512 0.0280

Mars 105486-11-04 13:40 G 40249337.94 40249338.07 40249338.21 0.1870 0.1111

Mars 105487-09-07 18:13 G 40249645.15 40249645.26 40249645.38 0.1664 0.0228

Venus 105491-04-14 04:47 G 40250959.63 40250959.70 40250959.77 0.3654 0.2620

Moon 105491-04-16 09:35 G 40250961.82 40250961.90 40250961.98 0.2651 0.1813

Earth 105491-04-16 10:18 G 40250961.85 40250961.93 40250962.01 0.2652 0.1688 *

Jupiter 105492-01-03 12:42 G 40251223.91 40251224.03 40251224.16 0.0514 0.0059

Pluto 105492-02-27 04:33 G 40251278.62 40251278.69 40251278.82 0.0060 0.0052

Pluto 105492-05-25 05:59 G 40251366.63 40251366.75 40251366.91 0.0060 0.0042

Pluto 105492-08-21 07:40 G 40251454.66 40251454.82 40251454.99 0.0060 0.0032

Pluto 105492-11-17 09:06 G 40251542.70 40251542.88 40251543.06 0.0060 0.0022

Pluto 105493-02-13 10:04 G 40251630.75 40251630.92 40251631.13 0.0060 0.0013

Pluto 105493-05-12 11:45 G 40251718.80 40251718.99 40251719.18 0.0060 0.0003

Uranus 105493-06-13 13:25 G 40251751.02 40251751.06 40251751.11 0.0141 0.0132

Pluto 105493-08-08 12:57 G 40251806.85 40251807.04 40251807.24 0.0060 0.0007

Uranus 105493-09-09 16:47 G 40251839.13 40251839.20 40251839.29 0.0141 0.0112

Pluto 105493-11-04 14:09 G 40251894.91 40251895.09 40251895.29 0.0060 0.0017

Uranus 105493-12-06 20:23 G 40251927.26 40251927.35 40251927.46 0.0141 0.0091

Pluto 105494-01-31 15:21 G 40251982.98 40251983.14 40251983.33 0.0060 0.0027

Uranus 105494-03-04 23:59 G 40252015.39 40252015.50 40252015.61 0.0141 0.0071

Pluto 105494-04-29 16:33 G 40252071.06 40252071.19 40252071.36 0.0060 0.0037

Uranus 105494-06-01 03:21 G 40252103.52 40252103.64 40252103.77 0.0141 0.0051

Pluto 105494-07-26 18:13 G 40252159.14 40252159.26 40252159.39 0.0060 0.0047

Uranus 105494-08-28 06:42 G 40252191.66 40252191.78 40252191.91 0.0141 0.0031

Pluto 105494-10-22 19:25 G 40252247.26 40252247.31 40252247.38 0.0060 0.0057

Uranus 105494-11-24 10:18 G 40252279.80 40252279.93 40252280.06 0.0141 0.0010

Uranus 105495-02-20 13:40 G 40252367.94 40252368.07 40252368.20 0.0141 0.0010

Uranus 105495-05-19 17:01 G 40252456.08 40252456.21 40252456.34 0.0141 0.0031

Uranus 105495-08-15 20:23 G 40252544.23 40252544.35 40252544.48 0.0141 0.0051

Uranus 105495-11-11 23:59 G 40252632.38 40252632.50 40252632.61 0.0141 0.0071

Uranus 105496-02-08 03:21 G 40252720.54 40252720.64 40252720.74 0.0141 0.0092

Uranus 105496-05-06 06:28 G 40252808.70 40252808.77 40252808.86 0.0141 0.0113

Uranus 105496-08-02 10:04 G 40252896.88 40252896.92 40252896.97 0.0142 0.0132

Mars 105497-01-28 05:30 G 40253075.61 40253075.73 40253075.84 0.1671 0.0342

Jupiter 105498-02-18 18:57 G 40253462.26 40253462.29 40253462.33 0.0511 0.0499

Jupiter 105498-05-20 08:09 G 40253552.75 40253552.84 40253552.94 0.0514 0.0436

Saturn 105499-06-23 04:33 G 40253951.59 40253951.69 40253951.79 0.0298 0.0180

Saturn 105499-09-19 16:47 G 40254040.07 40254040.20 40254040.33 0.0297 0.0004

Saturn 105499-12-17 04:47 G 40254128.60 40254128.70 40254128.81 0.0297 0.0170

Jupiter 105503-10-23 17:16 G 40255534.10 40255534.22 40255534.34 0.0515 0.0214

Jupiter 105504-01-20 21:35 G 40255623.32 40255623.40 40255623.48 0.0512 0.0404

Moon 105504-04-19 02:52 G 40255712.51 40255712.62 40255712.73 0.2655 0.0193

Earth 105504-04-19 03:21 G 40255712.53 40255712.64 40255712.75 0.2650 0.0144 *

Mars 105506-06-21 16:33 G 40256506.10 40256506.19 40256506.29 0.1677 0.0918

Mars 105508-05-26 19:40 G 40257211.26 40257211.32 40257211.38 0.1652 0.1409

Jupiter 105510-03-09 04:33 G 40257862.52 40257862.69 40257862.86 0.0513 0.0201

Earth 105513-10-22 22:04 G 40259186.26 40259186.42 40259186.57 0.2682 0.0809

Moon 105513-10-22 23:45 G 40259186.35 40259186.49 40259186.64 0.2682 0.1204 *

Saturn 105515-01-02 12:57 G 40259622.89 40259623.04 40259623.21 0.0264 0.0141

Saturn 105515-04-01 10:33 G 40259711.75 40259711.94 40259712.13 0.0265 0.0042

Saturn 105515-06-29 07:54 G 40259800.74 40259800.83 40259800.93 0.0265 0.0228

Jupiter 105515-08-11 21:35 G 40259844.31 40259844.40 40259844.48 0.0516 0.0377

Jupiter 105515-11-09 01:54 G 40259933.47 40259933.58 40259933.70 0.0513 0.0249

Mars 105515-11-12 03:35 G 40259936.60 40259936.65 40259936.70 0.1684 0.1507

Mars 105516-12-14 21:49 G 40260335.25 40260335.41 40260335.56 0.1880 0.0727

Earth 105517-04-21 20:23 G 40260463.26 40260463.35 40260463.44 0.2649 0.1397

Moon 105517-04-21 20:37 G 40260463.27 40260463.36 40260463.45 0.2656 0.1394 *

Mars 105517-10-17 06:57 G 40260641.69 40260641.79 40260641.89 0.1658 0.0857

Jupiter 105521-12-26 00:42 G 40262172.34 40262172.53 40262172.71 0.0512 0.0036

Neptune 105523-06-07 11:01 G 40262700.91 40262700.96 40262701.03 0.0089 0.0085

Neptune 105523-09-03 14:37 G 40262789.02 40262789.11 40262789.23 0.0089 0.0075

Neptune 105523-11-30 18:42 G 40262877.14 40262877.28 40262877.41 0.0089 0.0064

Neptune 105524-02-26 22:04 G 40262965.28 40262965.42 40262965.59 0.0089 0.0054

Neptune 105524-05-25 02:09 G 40263053.42 40263053.59 40263053.76 0.0090 0.0043

Neptune 105524-08-21 05:45 G 40263141.56 40263141.74 40263141.93 0.0090 0.0033

Neptune 105524-11-17 09:35 G 40263229.71 40263229.90 40263230.09 0.0090 0.0022

Neptune 105525-02-13 13:11 G 40263317.86 40263318.05 40263318.25 0.0090 0.0012

Neptune 105525-05-12 17:01 G 40263406.02 40263406.21 40263406.41 0.0090 0.0002

Neptune 105525-08-08 20:52 G 40263494.18 40263494.37 40263494.57 0.0090 0.0010

Neptune 105525-11-05 00:28 G 40263582.34 40263582.52 40263582.72 0.0090 0.0021

Neptune 105526-02-01 04:18 G 40263670.50   40263670.68   40263670.87 0.0090 0.0031

Neptune 105526-04-30 07:54 G 40263758.67   40263758.83   40263759.01 0.0090 0.0042

Mars   105526-05-06 14:37 G 40263764.97   40263765.11   40263765.26 0.1870 0.0958

Neptune 105526-07-27 11:30 G 40263846.84   40263846.98   40263847.16 0.0090 0.0053

Neptune 105526-10-23 15:35 G 40263935.02   40263935.15   40263935.30 0.0090 0.0063

Neptune 105527-01-19 19:11 G 40264023.20   40264023.30   40264023.43 0.0090 0.0074

Mars   105527-03-09 18:13 G 40264072.15   40264072.26   40264072.37 0.1664 0.0296

Venus   105527-04-12 04:04 G 40264105.52   40264105.67   40264105.83 0.3715 0.0365

Neptune 105527-04-17 23:01 G 40264111.41   40264111.46   40264111.54 0.0090 0.0084

Jupiter 105527-08-28 06:57 G 40264243.66   40264243.79   40264243.91 0.0514 0.0100

Saturn   105528-11-10 06:57 G 40264683.71   40264683.79   40264683.87 0.0298 0.0226

Saturn   105529-02-06 19:11 G 40264772.17   40264772.30   40264772.43 0.0297 0.0049

Saturn   105529-05-06 07:25 G 40264860.69   40264860.81   40264860.92 0.0297 0.0125

Venus   105531-04-07 04:04 G 40265561.59   40265561.67   40265561.76 0.3662 0.1974

Jupiter 105533-10-13 19:54 G 40266482.17   40266482.33   40266482.48 0.0512 0.0283

Uranus   105534-04-07 07:25 G 40266657.79   40266657.81   40266657.84 0.0137 0.0136

Uranus   105534-07-04 15:06 G 40266746.02   40266746.13   40266746.25 0.0137 0.0108

Uranus   105534-09-30 22:33 G 40266834.29   40266834.44   40266834.60 0.0137 0.0081

Uranus   105534-12-28 06:13 G 40266922.59   40266922.76   40266922.94 0.0137 0.0054

Uranus   105535-03-26 13:54 G 40267010.89   40267011.08   40267011.27 0.0137 0.0026

Uranus   105535-06-22 21:35 G 40267099.21   40267099.40   40267099.59 0.0137 0.0001

Uranus   105535-09-19 05:01 G 40267187.53   40267187.71   40267187.91 0.0137 0.0029

Uranus   105535-12-16 12:42 G 40267275.86   40267276.03   40267276.21 0.0137 0.0056

Uranus   105536-03-13 20:09 G 40267364.20   40267364.34   40267364.51 0.0137 0.0084

Uranus   105536-06-10 04:04 G 40267452.56   40267452.67   40267452.79 0.0137 0.0111

Mars   105536-07-30 05:30 G 40267502.61   40267502.73   40267502.84 0.1671 0.0276

Venus   105536-10-20 19:40 G 40267585.21   40267585.32   40267585.42 0.3659 0.0256

Moon   105537-04-17 14:37 G 40267764.02   40267764.11   40267764.20 0.2657 0.1499

Earth   105537-04-17 15:06 G 40267764.03   40267764.13   40267764.22 0.2652 0.1373 *

Jupiter 105539-06-16 11:59 G 40268553.87   40268554.00   40268554.12 0.0514 0.0047

Venus 105542-05-06 11:01 G 40269608.86 40269608.96 40269609.05 0.3656 0.1509

Saturn 105544-05-21 11:30 G 40270354.87 40270354.98 40270355.12 0.0263 0.0196

Saturn 105544-08-18 09:06 G 40270443.69 40270443.88 40270444.07 0.0264 0.0014

Saturn 105544-11-15 06:28 G 40270532.63 40270532.77 40270532.92 0.0264 0.0170

Jupiter 105545-08-01 16:47 G 40270792.17 40270792.20 40270792.24 0.0511 0.0502

Jupiter 105545-10-31 05:59 G 40270882.65 40270882.75 40270882.85 0.0514 0.0432

Mars 105545-12-20 16:33 G 40270933.09 40270933.19 40270933.29 0.1677 0.0851

Earth 105546-10-20 19:25 G 40271237.24 40271237.31 40271237.39 0.2681 0.2373

Moon 105546-10-20 21:21 G 40271237.29 40271237.39 40271237.49 0.2679 0.2135 *

Venus 105547-11-20 02:09 G 40271632.55 40271632.59 40271632.64 0.3653 0.3200

Mars 105547-11-25 19:40 G 40271638.27 40271638.32 40271638.37 0.1652 0.1476

Earth 105550-04-20 08:09 G 40272514.73 40272514.84 40272514.94 0.2650 0.0188

Moon 105550-04-20 08:23 G 40272514.75 40272514.85 40272514.96 0.2656 0.0294 *

Jupiter 105551-04-04 16:18 G 40272864.07 40272864.18 40272864.30 0.0515 0.0203

Jupiter 105551-07-02 20:37 G 40272953.29 40272953.36 40272953.43 0.0512 0.0415

Mars 105555-05-13 03:35 G 40274363.60 40274363.65 40274363.71 0.1684 0.1435

Mars 105556-06-14 22:33 G 40274762.29 40274762.44 40274762.59 0.1880 0.0873

Mars 105557-04-17 06:57 G 40275068.69 40275068.79 40275068.88 0.1658 0.0926

Jupiter 105557-08-19 02:52 G 40275192.45 40275192.62 40275192.79 0.0513 0.0208

Saturn 105558-06-26 19:40 G 40275504.21 40275504.32 40275504.44 0.0298 0.0122

Saturn 105558-09-23 07:54 G 40275592.71 40275592.83 40275592.96 0.0297 0.0055

Saturn 105558-12-20 20:09 G 40275681.26 40275681.34 40275681.42 0.0297 0.0228

Earth 105559-10-24 05:01 G 40275988.58 40275988.71 40275988.84 0.2683 0.1566

Moon 105559-10-24 05:16 G 40275988.59 40275988.72 40275988.85 0.2676 0.1617 *

Jupiter 105563-01-21 20:52 G 40277174.28 40277174.37 40277174.46 0.0516 0.0361

Jupiter 105563-04-21 01:11 G 40277263.44 40277263.55 40277263.66 0.0513 0.0263

Earth 105563-04-23 01:11 G 40277265.47 40277265.55 40277265.63 0.2649 0.1716

Moon 105563-04-23 01:40 G 40277265.49 40277265.57 40277265.65 0.2649 0.1784 *

Mars 105565-11-04 15:21 G 40278191.99 40278192.14 40278192.29 0.1871 0.0813

Mars 105566-09-07 18:13 G 40278499.15 40278499.26 40278499.37 0.1664 0.0372

Jupiter 105569-06-06 23:30 G 40279502.29 40279502.48 40279502.66 0.0512 0.0022

Earth 105570-04-16 02:37 G 40279815.59 40279815.61 40279815.63 0.2653 0.2599

Saturn 105573-10-08 10:04 G 40281086.88 40281086.92 40281086.98 0.0264 0.0253

Saturn 105574-01-05 07:25 G 40281175.63 40281175.81 40281176.00 0.0264 0.0072

Saturn 105574-04-04 04:47 G 40281264.53 40281264.70 40281264.88 0.0265 0.0112

Jupiter 105575-02-07 05:45 G 40281573.61 40281573.74 40281573.86 0.0514 0.0106

Mars 105576-01-29 05:16 G 40281929.61 40281929.72 40281929.84 0.1670 0.0205

Uranus 105577-07-04 20:52 G 40282452.32 40282452.37 40282452.44 0.0141 0.0126

Uranus 105577-10-01 00:28 G 40282540.44 40282540.52 40282540.61 0.0141 0.0105

Uranus 105577-12-28 04:04 G 40282628.56 40282628.67 40282628.77 0.0141 0.0085

Uranus 105578-03-26 07:25 G 40282716.69 40282716.81 40282716.93 0.0141 0.0065

Uranus 105578-06-22 10:47 G 40282804.83 40282804.95 40282805.08 0.0141 0.0045

Uranus 105578-09-18 14:23 G 40282892.97 40282893.10 40282893.23 0.0141 0.0024

Uranus 105578-12-15 17:45 G 40282981.11 40282981.24 40282981.37 0.0141 0.0004

Uranus 105579-03-13 21:06 G 40283069.25 40283069.38 40283069.51 0.0141 0.0017

Uranus 105579-06-10 00:28 G 40283157.40 40283157.52 40283157.65 0.0141 0.0037

Uranus 105579-09-06 04:04 G 40283245.55 40283245.67 40283245.79 0.0141 0.0057

Uranus 105579-12-03 07:25 G 40283333.70 40283333.81 40283333.92 0.0141 0.0077

Uranus 105580-02-29 10:47 G 40283421.86 40283421.95 40283422.05 0.0141 0.0098

Uranus 105580-05-27 13:54 G 40283510.02 40283510.08 40283510.16 0.0142 0.0119

Uranus 105580-08-23 17:30 G 40283598.21 40283598.23 40283598.26 0.0142 0.0138

Jupiter 105581-03-25 19:40 G 40283812.16 40283812.32 40283812.48 0.0511 0.0252

Venus 105582-04-28 10:04 G 40284210.87 40284210.92 40284210.97 0.3664 0.3139

Earth 105583-04-18 19:40 G 40284566.22 40284566.32 40284566.42 0.2651 0.1055

Moon 105583-04-18 20:09 G 40284566.24 40284566.34 40284566.44 0.2655 0.0955 *

Venus 105583-11-17 06:42 G 40284778.64 40284778.78 40284778.92 0.3717 0.1643

Mars 105585-06-20 16:33 G 40285360.09 40285360.19 40285360.29 0.1677 0.0781

Jupiter 105586-11-26 10:33 G 40285883.81 40285883.94 40285884.07 0.0514 0.0043

Mars 105587-05-26 19:40 G 40286065.28 40286065.32 40286065.35 0.1652 0.1548

Pluto 105587-05-27 21:49 G 40286066.38 40286066.41 40286066.46 0.0084 0.0079

Pluto 105587-08-23 23:01 G 40286154.38 40286154.46 40286154.56 0.0084 0.0060

Venus 105587-11-12 01:40 G 40286234.47 40286234.57 40286234.66 0.3661 0.1375

Saturn 105587-11-13 21:49 G 40286236.31 40286236.41 40286236.52 0.0298 0.0172

Pluto 105587-11-20 00:28 G 40286242.41 40286242.52 40286242.64 0.0084 0.0041

Saturn 105588-02-10 10:04 G 40286324.79 40286324.92 40286325.05 0.0297 0.0007

Pluto 105588-02-16 01:40 G 40286330.44 40286330.57 40286330.70 0.0084 0.0022

Saturn 105588-05-08 22:18 G 40286413.33 40286413.43 40286413.53 0.0297 0.0178

Pluto 105588-05-14 02:52 G 40286418.49 40286418.62 40286418.76 0.0084 0.0004

Pluto 105588-08-10 04:04 G 40286506.54 40286506.67 40286506.80 0.0084 0.0015

Pluto 105588-11-06 05:01 G 40286594.60 40286594.71 40286594.85 0.0083 0.0034

Pluto 105589-02-02 06:28 G 40286682.67 40286682.77 40286682.88 0.0083 0.0051

Pluto 105589-05-01 07:40 G 40286770.75 40286770.82 40286770.89 0.0083 0.0070

Moon 105592-10-21 01:40 G 40288039.44 40288039.57 40288039.70 0.2675 0.1655

Earth 105592-10-21 02:37 G 40288039.48 40288039.61 40288039.73 0.2681 0.1618 *

Jupiter 105593-01-11 14:52 G 40288122.09 40288122.12 40288122.16 0.0511 0.0499

Jupiter 105593-04-12 04:04 G 40288212.58 40288212.67 40288212.77 0.0514 0.0434

Venus 105593-05-27 17:01 G 40288258.11 40288258.21 40288258.31 0.3658 0.0375

Mars 105594-11-11 03:35 G 40288790.58 40288790.65 40288790.71 0.1684 0.1368

Mars 105595-12-14 23:30 G 40289189.34 40289189.48 40289189.62 0.1880 0.1038

Earth 105596-04-20 12:42 G 40289316.93 40289317.03 40289317.14 0.2650 0.0501

Moon 105596-04-20 13:25 G 40289316.95 40289317.06 40289317.17 0.2648 0.0561 *

Mars 105596-10-16 06:57 G 40289495.70 40289495.79 40289495.88 0.1658 0.0998

Jupiter 105598-09-14 15:35 G 40290194.03 40290194.15 40290194.27 0.0515 0.0188

Venus 105598-12-11 08:23 G 40290281.76 40290281.85 40290281.93 0.3656 0.2082

Jupiter 105598-12-12 19:54 G 40290283.26 40290283.33 40290283.40 0.0512 0.0429

Saturn 105603-05-25 05:45 G 40291907.58 40291907.74 40291907.91 0.0263 0.0128

Saturn 105603-08-22 03:06 G 40291996.45 40291996.63 40291996.82 0.0264 0.0054

Saturn 105603-11-19 00:28 G 40292085.45 40292085.52 40292085.61 0.0264 0.0238

Neptune 105604-01-02 06:28 G 40292129.74 40292129.77 40292129.83 0.0088 0.0082

Neptune 105604-03-30 07:54 G 40292217.77 40292217.83 40292217.90 0.0088 0.0075

Neptune 105604-06-26 09:06 G 40292305.81 40292305.88 40292305.97 0.0088 0.0068

Neptune 105604-09-22 10:33 G 40292393.85 40292393.94 40292394.04 0.0088 0.0061

Neptune 105604-12-19 11:45 G 40292481.89 40292481.99 40292482.10 0.0088 0.0055

Jupiter 105605-01-29 00:57 G 40292522.37 40292522.54 40292522.71 0.0513 0.0208

Neptune 105605-03-17 12:57 G 40292569.94 40292570.04 40292570.16 0.0088 0.0048

Mars 105605-05-05 16:33 G 40292619.03 40292619.19 40292619.35 0.1871 0.0638

Neptune 105605-06-13 14:23 G 40292657.99 40292658.10 40292658.22 0.0088 0.0041

Neptune 105605-09-09 15:49 G 40292746.03 40292746.16 40292746.28 0.0088 0.0034

Moon 105605-10-24 10:18 G 40292790.82 40292790.93 40292791.04 0.2681 0.1920

Earth 105605-10-24 11:59 G 40292790.92 40292791.00 40292791.08 0.2683 0.2324 *

Neptune 105605-12-06 16:47 G 40292834.08 40292834.20 40292834.33 0.0088 0.0028

Neptune 105606-03-04 18:13 G 40292922.13 40292922.26 40292922.39 0.0088 0.0021

Mars 105606-03-08 18:13 G 40292926.14 40292926.26 40292926.37 0.1664 0.0441

Neptune 105606-05-31 19:40 G 40293010.18 40293010.32 40293010.45 0.0088 0.0014

Neptune 105606-08-27 20:52 G 40293098.24 40293098.37 40293098.50 0.0088 0.0007

Neptune 105606-11-23 22:04 G 40293186.29 40293186.42 40293186.55 0.0088 0.0001

Neptune 105607-02-19 23:16 G 40293274.34 40293274.47 40293274.61 0.0088 0.0007

Neptune 105607-05-19 00:42 G 40293362.40 40293362.53 40293362.66 0.0088 0.0013

Neptune 105607-08-15 01:54 G 40293450.45 40293450.58 40293450.71 0.0088 0.0020

Neptune 105607-11-11 02:52 G 40293538.50 40293538.62 40293538.76 0.0088 0.0027

Neptune 105608-02-07 04:18 G 40293626.56 40293626.68 40293626.80 0.0088 0.0033

Neptune 105608-05-05 05:30 G 40293714.62 40293714.73 40293714.85 0.0088 0.0040

Neptune 105608-08-01 06:42 G 40293802.68 40293802.78 40293802.90 0.0088 0.0047

Neptune 105608-10-28 08:09 G 40293890.73 40293890.84 40293890.94 0.0088 0.0053

Neptune 105609-01-24 09:06 G 40293978.79 40293978.88 40293978.99 0.0088 0.0060

Neptune 105609-04-22 10:18 G 40294066.86 40294066.93 40294067.03 0.0088 0.0067

Moon 105609-04-23 05:45 G 40294067.67 40294067.74 40294067.81 0.2642 0.2038

Earth 105609-04-23 05:45 G 40294067.67 40294067.74 40294067.81 0.2649 0.2031 *

Neptune 105609-07-19 11:30 G 40294154.92 40294154.98 40294155.07 0.0088 0.0074

Neptune 105609-10-15 12:57 G 40294243.00 40294243.04 40294243.10 0.0088 0.0080

Neptune 105610-01-11 14:09 G 40294331.08 40294331.09 40294331.12 0.0088 0.0087

Jupiter 105610-07-03 20:09 G 40294504.24 40294504.34 40294504.43 0.0515 0.0345

Jupiter 105610-10-01 00:28 G 40294593.42 40294593.52 40294593.63 0.0513 0.0278

Mars 105615-07-30 05:16 G 40296356.61 40296356.72 40296356.84 0.1670 0.0133

Earth 105616-04-16 07:25 G 40296617.75 40296617.81 40296617.86 0.2653 0.2280

Moon 105616-04-16 07:54 G 40296617.78 40296617.83 40296617.89 0.2655 0.2239 *

Jupiter 105616-11-16 22:04 G 40296832.23 40296832.42 40296832.60 0.0513 0.0014

Saturn 105617-04-01 22:04 G 40296968.36 40296968.42 40296968.50 0.0299 0.0249

Saturn 105617-06-29 10:33 G 40297056.81 40297056.94 40297057.07 0.0298 0.0071

Saturn 105617-09-25 22:47 G 40297145.33 40297145.45 40297145.57 0.0297 0.0105

Saturn 105617-12-23 10:47 G 40297233.91 40297233.95 40297233.99 0.0297 0.0278

Uranus 105618-04-27 15:49 G 40297359.10 40297359.16 40297359.26 0.0137 0.0125

Uranus 105618-07-24 23:45 G 40297447.36 40297447.49 40297447.63 0.0137 0.0097

Uranus 105618-10-21 07:11 G 40297535.64 40297535.80 40297535.98 0.0137 0.0070

Uranus 105619-01-17 14:52 G 40297623.94 40297624.12 40297624.31 0.0137 0.0042

Uranus 105619-04-15 22:33 G 40297712.25 40297712.44 40297712.64 0.0137 0.0015

Uranus 105619-07-13 06:13 G 40297800.57 40297800.76 40297800.95 0.0137 0.0013

Uranus 105619-10-09 13:54 G 40297888.89 40297889.08 40297889.26 0.0137 0.0040

Uranus 105620-01-05 21:21 G 40297977.23 40297977.39 40297977.57 0.0137 0.0068

Uranus 105620-04-03 05:01 G 40298065.58 40298065.71 40298065.85 0.0137 0.0095

Uranus 105620-06-30 12:28 G 40298153.95 40298154.02 40298154.12 0.0137 0.0123

Jupiter 105622-04-22 00:28 G 40298814.50 40298814.52 40298814.55 0.0516 0.0504

Jupiter 105622-07-20 05:16 G 40298903.59 40298903.72 40298903.84 0.0513 0.0126

Mars 105624-12-19 16:33 G 40299787.08 40299787.19 40299787.29 0.1677 0.0707

Mars 105626-11-24 19:40 G 40300492.30 40300492.32 40300492.33 0.1652 0.1623

Jupiter 105628-09-04 18:57 G 40301142.12 40301142.29 40301142.45 0.0512 0.0236

Earth 105629-04-19 00:28 G 40301368.42 40301368.52 40301368.62 0.2651 0.0729

Moon 105629-04-19 00:57 G 40301368.43 40301368.54 40301368.64 0.2646 0.0588 *

Saturn 105632-10-11 03:49 G 40302639.53 40302639.66 40302639.80 0.0263 0.0189

Saturn 105633-01-08 01:11 G 40302728.36 40302728.55 40302728.74 0.0264 0.0008

Saturn 105633-04-06 22:33 G 40302817.30 40302817.44 40302817.58 0.0264 0.0176

Jupiter 105634-05-08 09:35 G 40303213.77 40303213.90 40303214.03 0.0514 0.0034

Mars 105634-05-12 03:35 G 40303217.57 40303217.65 40303217.72 0.1683 0.1299

Venus 105634-12-07 22:33 G 40303427.33 40303427.44 40303427.54 0.3713 0.2741

Mars 105635-06-15 00:28 G 40303616.39 40303616.52 40303616.65 0.1881 0.1209

Mars 105636-04-16 06:57 G 40303922.70 40303922.79 40303922.87 0.1658 0.1071

Moon 105638-10-22 07:40 G 40304841.67 40304841.82 40304841.97 0.2684 0.1070

Earth 105638-10-22 09:35 G 40304841.74 40304841.90 40304842.05 0.2681 0.0869 *

Venus 105638-12-03 07:25 G 40304883.74 40304883.81 40304883.89 0.3664 0.2536

Venus 105640-06-23 09:21 G 40305451.86 40305451.89 40305451.92 0.3718 0.3646

Jupiter 105640-06-23 15:21 G 40305452.07 40305452.14 40305452.22 0.0511 0.0463

Jupiter 105640-09-22 04:18 G 40305542.61 40305542.68 40305542.76 0.0514 0.0470

Moon 105642-04-21 17:16 G 40306119.11 40306119.22 40306119.32 0.2645 0.0698

Earth 105642-04-21 17:30 G 40306119.13 40306119.23 40306119.33 0.2650 0.0816 *

Venus 105644-06-17 23:01 G 40306907.36 40306907.46 40306907.56 0.3661 0.0774

Mars 105644-11-03 17:30 G 40307046.06 40307046.23 40307046.39 0.1871 0.0482

Mars 105645-09-06 17:59 G 40307353.14 40307353.25 40307353.36 0.1664 0.0512

Jupiter 105646-02-24 14:23 G 40307523.98 40307524.10 40307524.22 0.0515 0.0183

Jupiter 105646-05-24 18:42 G 40307613.22 40307613.28 40307613.35 0.0512 0.0435

Saturn 105646-11-16 12:28 G 40307788.90 40307789.02 40307789.14 0.0298 0.0124

Saturn 105647-02-13 00:42 G 40307877.40 40307877.53 40307877.66 0.0297 0.0052

Saturn 105647-05-12 12:42 G 40307965.95 40307966.03 40307966.12 0.0297 0.0226

Venus 105650-01-01 14:23 G 40308931.00 40308931.10 40308931.20 0.3658 0.0952

Jupiter 105652-07-10 23:16 G 40309852.30 40309852.47 40309852.64 0.0513 0.0214

Mars 105655-01-28 05:16 G 40310783.60 40310783.72 40310783.83 0.1670 0.0061

Moon 105655-04-24 09:49 G 40310869.86 40310869.91 40310869.96 0.2649 0.2291

Earth 105655-04-24 10:33 G 40310869.89 40310869.94 40310869.99 0.2648 0.2347 *

Venus 105655-07-18 05:45 G 40310954.67 40310954.74 40310954.81 0.3655 0.2658

Jupiter 105657-12-13 19:25 G 40311834.21 40311834.31 40311834.41 0.0516 0.0329

Jupiter 105658-03-12 23:59 G 40311923.39 40311923.50 40311923.60 0.0513 0.0294

Uranus 105661-04-28 00:57 G 40313065.54 40313065.54 40313065.57 0.0140 0.0140

Uranus 105661-07-25 04:47 G 40313153.63 40313153.70 40313153.77 0.0141 0.0119

Uranus 105661-10-21 08:09 G 40313241.75 40313241.84 40313241.93 0.0141 0.0099

Uranus 105662-01-17 11:30 G 40313329.87 40313329.98 40313330.09 0.0141 0.0079

Saturn 105662-02-28 02:23 G 40313371.54 40313371.60 40313371.68 0.0263 0.0244

Uranus 105662-04-15 15:06 G 40313418.01 40313418.13 40313418.25 0.0141 0.0058

Earth 105662-04-17 11:59 G 40313419.93 40313420.00 40313420.08 0.2652 0.1961

Moon 105662-04-17 12:13 G 40313419.94 40313420.01 40313420.08 0.2646 0.1933 *

Saturn 105662-05-27 23:45 G 40313460.30 40313460.49 40313460.68 0.0263 0.0064

Uranus 105662-07-12 18:28 G 40313506.14 40313506.27 40313506.40 0.0141 0.0038

Saturn 105662-08-24 20:52 G 40313549.21 40313549.37 40313549.55 0.0264 0.0119

Uranus 105662-10-08 21:49 G 40313594.28 40313594.41 40313594.55 0.0141 0.0018

Uranus 105663-01-05 01:25 G 40313682.42 40313682.56 40313682.69 0.0141 0.0004

Uranus 105663-04-03 04:47 G 40313770.57 40313770.70 40313770.83 0.0141 0.0023

Uranus 105663-06-30 08:09 G 40313858.72 40313858.84 40313858.97 0.0141 0.0043

Uranus 105663-09-26 11:30 G 40313946.87 40313946.98 40313947.10 0.0141 0.0064

Uranus 105663-12-23 15:06 G 40314035.02 40314035.13 40314035.23 0.0141 0.0084

Uranus 105664-03-20 18:13 G 40314123.18 40314123.26 40314123.36 0.0141 0.0104

Jupiter 105664-04-28 20:09 G 40314162.16 40314162.34 40314162.52 0.0513 0.0009

Uranus 105664-06-16 21:35 G 40314211.35 40314211.40 40314211.47 0.0142 0.0125

Mars 105664-06-19 16:18 G 40314214.08 40314214.18 40314214.29 0.1677 0.0641

Jupiter 105669-10-01 23:59 G 40316144.46 40316144.50 40316144.54 0.0516 0.0486

Jupiter 105669-12-30 04:33 G 40316233.57 40316233.69 40316233.81 0.0513 0.0142

Mars 105673-11-10 03:35 G 40317644.57 40317644.65 40317644.73 0.1683 0.1222

Mars 105674-12-14 01:25 G 40318043.44 40318043.56 40318043.67 0.1881 0.1362

Moon 105675-04-20 04:33 G 40318170.59 40318170.69 40318170.80 0.2649 0.0497

Earth 105675-04-20 05:16 G 40318170.61 40318170.72 40318170.82 0.2651 0.0407 *

Mars 105675-10-16 06:42 G 40318349.70 40318349.78 40318349.87 0.1658 0.1143

Jupiter 105676-02-15 17:30 G 40318472.06 40318472.23 40318472.39 0.0512 0.0226

Saturn 105676-04-04 12:28 G 40318520.93 40318521.02 40318521.12 0.0299 0.0203

Saturn 105676-07-02 00:57 G 40318609.41 40318609.54 40318609.67 0.0298 0.0026

Saturn 105676-09-28 12:57 G 40318697.93 40318698.04 40318698.16 0.0297 0.0150

Jupiter 105681-10-18 09:06 G 40320543.75 40320543.88 40320544.01 0.0514 0.0014

Mars 105684-05-04 18:13 G 40321473.09 40321473.26 40321473.42 0.1872 0.0343

Earth 105684-10-22 16:18 G 40321644.02 40321644.18 40321644.35 0.2682 0.0146

Moon 105684-10-22 17:45 G 40321644.08 40321644.24 40321644.40 0.2686 0.0073 *

Mars 105685-03-07 17:59 G 40321780.15 40321780.25 40321780.36 0.1664 0.0587

Jupiter 105687-12-04 14:23 G 40322782.02 40322782.10 40322782.19 0.0511 0.0445

Neptune 105688-03-03 08:09 G 40322871.77 40322871.84 40322871.90 0.0089 0.0084

Jupiter 105688-03-04 03:35 G 40322872.60 40322872.65 40322872.71 0.0514 0.0488

Moon 105688-04-21 21:49 G 40322921.31 40322921.41 40322921.51 0.2655 0.1059

Earth 105688-04-21 22:18 G 40322921.33 40322921.43 40322921.52 0.2650 0.1137 *

Neptune 105688-05-30 11:30 G 40322959.88 40322959.98 40322960.10 0.0089 0.0074

Neptune 105688-08-26 15:06 G 40323048.01 40323048.13 40323048.28 0.0089 0.0064

Neptune 105688-11-22 18:57 G 40323136.15 40323136.29 40323136.46 0.0089 0.0053

Neptune 105689-02-18 22:33 G 40323224.29 40323224.44 40323224.63 0.0089 0.0043

Neptune 105689-05-18 02:37 G 40323312.43 40323312.61 40323312.80 0.0089 0.0032

Neptune 105689-08-14 06:13 G 40323400.58 40323400.76 40323400.96 0.0089 0.0022

Neptune 105689-11-10 10:04 G 40323488.73 40323488.92 40323489.12 0.0089 0.0011

Neptune 105690-02-06 13:54 G 40323576.89 40323577.08 40323577.28 0.0089 0.0002

Neptune 105690-05-05 17:45 G 40323665.05 40323665.24 40323665.44 0.0090 0.0011

Neptune 105690-08-01 21:21 G 40323753.21 40323753.39 40323753.59 0.0090 0.0022

Neptune 105690-10-29 01:11 G 40323841.37 40323841.55 40323841.74 0.0090 0.0032

Neptune 105691-01-25 04:47 G 40323929.54 40323929.70 40323929.88 0.0090 0.0043

Neptune 105691-04-23 08:52 G 40324017.71 40324017.87 40324018.03 0.0090 0.0053

Venus 105691-07-15 00:57 G 40324100.39 40324100.54 40324100.69 0.3714 0.0822

Neptune 105691-07-20 12:28 G 40324105.89 40324106.02 40324106.17 0.0090 0.0064

Saturn 105691-10-14 21:21 G 40324192.23 40324192.39 40324192.56 0.0263 0.0128

Neptune 105691-10-16 16:04 G 40324194.08 40324194.17 40324194.29 0.0090 0.0075

Saturn 105692-01-11 18:42 G 40324281.09 40324281.28 40324281.47 0.0264 0.0054

Neptune 105692-01-12 19:54 G 40324282.28 40324282.33 40324282.40 0.0090 0.0085

Saturn 105692-04-09 15:49 G 40324370.09 40324370.16 40324370.25 0.0264 0.0239

Jupiter 105693-08-06 13:25 G 40324853.94 40324854.06 40324854.18 0.0515 0.0172

Jupiter 105693-11-03 17:45 G 40324943.18 40324943.24 40324943.30 0.0512 0.0445

Mars 105694-07-29 05:16 G 40325210.60 40325210.72 40325210.83 0.1670 0.0047

Venus 105695-07-10 05:01 G 40325556.62 40325556.71 40325556.79 0.3663 0.1932

Jupiter 105699-12-21 23:45 G 40327182.33 40327182.49 40327182.65 0.0513 0.0253

Venus 105701-01-23 20:23 G 40327580.25 40327580.35 40327580.45 0.3660 0.0190

Uranus 105702-05-19 00:42 G 40328060.42 40328060.53 40328060.64 0.0137 0.0113

Uranus 105702-08-15 08:09 G 40328148.70 40328148.84 40328149.00 0.0137 0.0086

Uranus 105702-11-11 15:49 G 40328236.99 40328237.16 40328237.34 0.0137 0.0058

Uranus 105703-02-07 23:16 G 40328325.29 40328325.47 40328325.67 0.0137 0.0032

Uranus 105703-05-07 07:11 G 40328413.60 40328413.80 40328413.99 0.0137 0.0004

Uranus 105703-08-03 14:37 G 40328501.92 40328502.11 40328502.31 0.0137 0.0024

Uranus 105703-10-30 22:18 G 40328590.25 40328590.43 40328590.61 0.0137 0.0051

Mars 105703-12-20 16:18 G 40328641.07 40328641.18 40328641.29 0.1677 0.0569

Uranus 105704-01-27 05:45 G 40328678.59 40328678.74 40328678.91 0.0137 0.0079

Uranus 105704-04-24 13:25 G 40328766.95 40328767.06 40328767.19 0.0137 0.0106

Uranus 105704-07-21 20:52 G 40328855.35 40328855.37 40328855.43 0.0137 0.0134

Jupiter 105705-05-26 18:13 G 40329164.16 40329164.26 40329164.36 0.0516 0.0322

Saturn 105705-08-23 14:09 G 40329253.03 40329253.09 40329253.16 0.0298 0.0258

Jupiter 105705-08-23 22:47 G 40329253.35 40329253.45 40329253.55 0.0513 0.0301

Saturn 105705-11-20 02:37 G 40329341.48 40329341.61 40329341.73 0.0298 0.0080

Saturn 105706-02-16 14:52 G 40329430.00 40329430.12 40329430.24 0.0297 0.0095

Saturn 105706-05-16 02:52 G 40329518.57 40329518.62 40329518.67 0.0296 0.0269

Venus 105706-08-09 11:45 G 40329603.90 40329603.99 40329604.08 0.3657 0.1533

Moon 105708-04-18 16:33 G 40330222.11 40330222.19 40330222.27 0.2657 0.1703

Earth 105708-04-18 16:47 G 40330222.12 40330222.20 40330222.29 0.2652 0.1639 *

Jupiter 105711-10-10 18:42 G 40331492.09 40331492.28 40331492.46 0.0512 0.0007

Venus 105712-02-23 03:06 G 40331627.58 40331627.63 40331627.67 0.3654 0.3225

Mars 105713-05-12 03:21 G 40332071.56 40332071.64 40332071.72 0.1683 0.1158

Mars 105714-06-15 02:09 G 40332470.49 40332470.59 40332470.69 0.1881 0.1519

Mars 105715-04-17 06:42 G 40332776.71 40332776.78 40332776.86 0.1658 0.1212

Jupiter 105717-03-14 23:16 G 40333474.42 40333474.47 40333474.52 0.0516 0.0469

Jupiter 105717-06-12 03:49 G 40333563.54 40333563.66 40333563.78 0.0514 0.0159

Saturn 105721-03-03 20:09 G 40334924.21 40334924.34 40334924.48 0.0263 0.0182

Earth 105721-04-21 09:49 G 40334972.81 40334972.91 40334973.02 0.2651 0.0127

Moon 105721-04-21 10:18 G 40334972.83 40334972.93 40334973.04 0.2656 0.0086 *

Saturn 105721-05-31 17:30 G 40335013.03 40335013.23 40335013.42 0.0263 0.0006

Saturn 105721-08-28 14:37 G 40335101.98 40335102.11 40335102.25 0.0264 0.0182

Jupiter 105723-07-29 15:35 G 40335801.98 40335802.15 40335802.32 0.0512 0.0222

Mars 105723-11-04 19:25 G 40335900.14 40335900.31 40335900.48 0.1872 0.0163

Mars 105724-09-06 17:59 G 40336207.14 40336207.25 40336207.36 0.1664 0.0652

Jupiter 105729-03-31 08:37 G 40337873.73 40337873.86 40337873.98 0.0514 0.0016

Moon 105730-10-24 22:33 G 40338446.27 40338446.44 40338446.60 0.2676 0.0447

Earth 105730-10-24 23:30 G 40338446.32 40338446.48 40338446.64 0.2682 0.0630 *

Mars 105733-03-26 12:13 G 40339329.99 40339330.01 40339330.04 0.1862 0.1836

Mars 105734-01-28 05:16 G 40339637.60 40339637.72 40339637.83 0.1670 0.0095

Earth 105734-04-24 02:52 G 40339723.53 40339723.62 40339723.71 0.2649 0.1456

Moon 105734-04-24 03:21 G 40339723.55 40339723.64 40339723.73 0.2644 0.1495 *

Saturn 105735-04-09 02:52 G 40340073.51 40340073.62 40340073.73 0.0298 0.0158

Jupiter 105735-05-17 12:57 G 40340111.95 40340112.04 40340112.14 0.0511 0.0436

Saturn 105735-07-06 15:06 G 40340162.00 40340162.13 40340162.26 0.0298 0.0020

Jupiter 105735-08-16 02:09 G 40340202.55 40340202.59 40340202.63 0.0514 0.0499

Saturn 105735-10-03 03:21 G 40340250.54 40340250.64 40340250.73 0.0297 0.0194

Pluto 105740-06-22 09:21 G 40341974.84 40341974.89 40341975.01 0.0060 0.0054

Pluto 105740-09-18 11:01 G 40342062.85 40342062.96 40342063.11 0.0060 0.0044

Pluto 105740-12-15 12:28 G 40342150.87 40342151.02 40342151.19 0.0060 0.0034

Jupiter 105741-01-17 13:11 G 40342183.92 40342184.05 40342184.17 0.0515 0.0150

Pluto 105741-03-13 13:40 G 40342238.91 40342239.07 40342239.26 0.0060 0.0025

Jupiter 105741-04-16 17:16 G 40342273.17 40342273.22 40342273.27 0.0512 0.0466

Pluto 105741-06-09 15:06 G 40342326.95 40342327.13 40342327.33 0.0060 0.0015

Pluto 105741-09-05 16:33 G 40342415.00 40342415.19 40342415.39 0.0060 0.0005

Pluto 105741-12-02 17:59 G 40342503.06 40342503.25 40342503.44 0.0060 0.0005

Pluto 105742-02-28 18:57 G 40342591.12 40342591.29 40342591.49 0.0060 0.0015

Pluto 105742-05-27 20:09 G 40342679.18 40342679.34 40342679.54 0.0060 0.0025

Pluto 105742-08-23 21:49 G 40342767.26 40342767.41 40342767.57 0.0060 0.0034

Pluto 105742-11-19 23:01 G 40342855.34 40342855.46 40342855.60 0.0060 0.0044

Pluto 105743-02-16 00:13 G 40342943.44 40342943.51 40342943.61 0.0060 0.0054

Mars 105743-06-20 16:18 G 40343068.07 40343068.18 40343068.29 0.1676 0.0495

Uranus 105745-05-19 08:37 G 40343766.82 40343766.86 40343766.90 0.0140 0.0133

Uranus 105745-08-15 11:59 G 40343854.93 40343855.00 40343855.08 0.0140 0.0113

Uranus 105745-11-11 15:21 G 40343943.05 40343943.14 40343943.25 0.0141 0.0094

Uranus 105746-02-07 18:57 G 40344031.18 40344031.29 40344031.40 0.0141 0.0073

Uranus 105746-05-06 22:18 G 40344119.31 40344119.43 40344119.56 0.0141 0.0053

Venus 105746-08-01 10:47 G 40344205.90 40344205.95 40344206.00 0.3665 0.3105

Uranus 105746-08-03 01:54 G 40344207.45 40344207.58 40344207.71 0.0141 0.0033

Uranus 105746-10-30 05:16 G 40344295.59 40344295.72 40344295.85 0.0141 0.0013

Uranus 105747-01-26 08:37 G 40344383.73 40344383.86 40344383.99 0.0141 0.0008

Uranus 105747-04-24 11:59 G 40344471.88 40344472.00 40344472.13 0.0141 0.0028

Jupiter 105747-06-03 22:47 G 40344512.30 40344512.45 40344512.61 0.0513 0.0272

Uranus 105747-07-21 15:35 G 40344560.02 40344560.15 40344560.27 0.0141 0.0048

Uranus 105747-10-17 18:57 G 40344648.17 40344648.29 40344648.40 0.0141 0.0068

Uranus 105748-01-13 22:18 G 40344736.33 40344736.43 40344736.53 0.0141 0.0089

Venus 105748-02-20 03:35 G 40344773.50 40344773.65 40344773.80 0.3716 0.1152

Uranus 105748-04-11 01:25 G 40344824.49 40344824.56 40344824.66 0.0141 0.0110

Uranus 105748-07-08 04:47 G 40344912.66 40344912.70 40344912.77 0.0141 0.0130

Saturn 105750-07-21 17:45 G 40345656.18 40345656.24 40345656.31 0.0263 0.0246

Saturn 105750-10-18 14:52 G 40345744.94 40345745.12 40345745.31 0.0264 0.0066

Saturn 105751-01-15 12:13 G 40345833.84 40345834.01 40345834.18 0.0264 0.0117

Venus 105752-02-15 02:23 G 40346229.50 40346229.60 40346229.69 0.3662 0.1337

Jupiter 105752-11-05 17:16 G 40346494.12 40346494.22 40346494.33 0.0516 0.0311

Mars 105752-11-10 03:21 G 40346498.55 40346498.64 40346498.73 0.1683 0.1085

Jupiter 105753-02-02 21:49 G 40346583.31 40346583.41 40346583.51 0.0513 0.0311

Mars 105753-12-14 03:21 G 40346897.57 40346897.64 40346897.71 0.1882 0.1703

Earth 105754-04-19 21:35 G 40347024.31 40347024.40 40347024.49 0.2652 0.1319

Moon 105754-04-19 22:04 G 40347024.33 40347024.42 40347024.52 0.2648 0.1200 *

Mars 105754-10-16 06:42 G 40347203.71 40347203.78 40347203.85 0.1657 0.1285

Venus 105757-08-30 17:45 G 40348253.14 40348253.24 40348253.34 0.3659 0.0404

Jupiter 105759-03-22 19:11 G 40348822.12 40348822.30 40348822.49 0.0512 0.0039

Mars 105762-04-02 14:23 G 40349929.09 40349929.10 40349929.11 0.1690 0.1683

Venus 105763-03-16 09:06 G 40350276.80 40350276.88 40350276.96 0.3656 0.2113

Mars 105763-05-05 20:09 G 40350327.17 40350327.34 40350327.51 0.1872 0.0023

Earth 105763-10-22 21:06 G 40350497.33 40350497.38 40350497.43 0.2680 0.2533

Mars 105764-03-07 17:59 G 40350634.14 40350634.25 40350634.35 0.1664 0.0724

Jupiter 105764-08-24 22:04 G 40350804.37 40350804.42 40350804.48 0.0516 0.0462

Saturn 105764-08-26 04:33 G 40350805.60 40350805.69 40350805.78 0.0298 0.0213

Jupiter 105764-11-22 02:52 G 40350893.50 40350893.62 40350893.74 0.0514 0.0166

Saturn 105764-11-22 17:01 G 40350894.08 40350894.21 40350894.33 0.0298 0.0037

Saturn 105765-02-19 05:01 G 40350982.60 40350982.71 40350982.83 0.0297 0.0140

Moon 105767-04-22 14:09 G 40351774.98 40351775.09 40351775.20 0.2646 0.0161

Earth 105767-04-22 14:37 G 40351775.00 40351775.11 40351775.22 0.2651 0.0232 *

Neptune 105768-07-03 04:33 G 40352212.68 40352212.69 40352212.71 0.0088 0.0087

Neptune 105768-09-29 05:59 G 40352300.70 40352300.75 40352300.80 0.0088 0.0080

Neptune 105768-12-26 06:57 G 40352388.73 40352388.79 40352388.87 0.0088 0.0074

Neptune 105769-03-24 08:23 G 40352476.77 40352476.85 40352476.94 0.0088 0.0067

Neptune 105769-06-20 09:35 G 40352564.82 40352564.90 40352565.01 0.0088 0.0060

Neptune 105769-09-16 11:01 G 40352652.86 40352652.96 40352653.07 0.0088 0.0053

Neptune 105769-12-13 12:13 G 40352740.91 40352741.01 40352741.13 0.0088 0.0047

Neptune 105770-03-11 13:25 G 40352828.95 40352829.06 40352829.19 0.0088 0.0040

Neptune 105770-06-07 14:52 G 40352917.00 40352917.12 40352917.25 0.0088 0.0033

Neptune 105770-09-03 16:18 G 40353005.05 40353005.18 40353005.30 0.0088 0.0026

Neptune 105770-11-30 17:30 G 40353093.10 40353093.23 40353093.36 0.0088 0.0019

Jupiter 105771-01-08 14:09 G 40353131.92 40353132.09 40353132.26 0.0512 0.0213

Neptune 105771-02-26 18:42 G 40353181.15 40353181.28 40353181.42 0.0088 0.0013

Neptune 105771-05-25 20:09 G 40353269.20 40353269.34 40353269.47 0.0088 0.0006

Neptune 105771-08-21 21:21 G 40353357.26 40353357.39 40353357.52 0.0088 0.0001

Neptune 105771-11-17 22:33 G 40353445.31 40353445.44 40353445.57 0.0088 0.0008

Neptune 105772-02-13 23:45 G 40353533.36 40353533.49 40353533.63 0.0088 0.0015

Neptune 105772-05-12 01:11 G 40353621.42 40353621.55 40353621.68 0.0088 0.0021

Neptune 105772-08-08 02:23 G 40353709.47 40353709.60 40353709.72 0.0088 0.0028

Mars 105772-09-24 13:11 G 40353756.98 40353757.05 40353757.13 0.1863 0.1669

Neptune 105772-11-04 03:21 G 40353797.53 40353797.64 40353797.77 0.0088 0.0035

Neptune 105773-01-31 04:47 G 40353885.59 40353885.70 40353885.82 0.0088 0.0041

Neptune 105773-04-29 05:59 G 40353973.65 40353973.75 40353973.87 0.0088 0.0048

Neptune 105773-07-26 07:11 G 40354061.71 40354061.80 40354061.91 0.0088 0.0055

Mars 105773-07-29 05:01 G 40354064.60 40354064.71 40354064.83 0.1670 0.0166

Neptune 105773-10-22 08:37 G 40354149.77 40354149.86 40354149.95 0.0088 0.0061

Neptune 105774-01-18 09:35 G 40354237.83 40354237.90 40354237.99 0.0088 0.0068

Neptune 105774-04-16 10:47 G 40354325.90 40354325.95 40354326.03 0.0088 0.0075

Neptune 105774-07-13 12:13 G 40354413.97 40354414.01 40354414.06 0.0088 0.0081

Neptune 105774-10-09 13:40 G 40354502.07 40354502.07 40354502.07 0.0088 0.0088

Jupiter 105776-09-10 07:54 G 40355203.70 40355203.83 40355203.96 0.0514 0.0023

Earth 105776-10-25 06:28 G 40355248.63 40355248.77 40355248.91 0.2682 0.1382

Moon 105776-10-25 07:11 G 40355248.67 40355248.80 40355248.94 0.2689 0.1492 *

Saturn 105780-03-06 13:54 G 40356476.91 40356477.08 40356477.26 0.0263 0.0118

Moon 105780-04-24 07:11 G 40356525.72 40356525.80 40356525.88 0.2653 0.1673

Earth 105780-04-24 07:40 G 40356525.74 40356525.82 40356525.90 0.2649 0.1773 *

Saturn 105780-06-03 11:16 G 40356565.78 40356565.97 40356566.16 0.0264 0.0063

Saturn 105780-08-31 08:37 G 40356654.80 40356654.86 40356654.93 0.0264 0.0247

Jupiter 105782-10-27 11:16 G 40357441.87 40357441.97 40357442.06 0.0511 0.0432

Mars 105782-12-19 16:18 G 40357495.07 40357495.18 40357495.29 0.1676 0.0425

Jupiter 105783-01-26 00:13 G 40357532.47 40357532.51 40357532.55 0.0514 0.0500

Uranus 105786-03-12 00:28 G 40358673.48 40358673.52 40358673.58 0.0138 0.0133

Uranus 105786-06-08 08:23 G 40358761.73 40358761.85 40358761.97 0.0138 0.0105

Uranus 105786-09-04 15:49 G 40358850.01 40358850.16 40358850.32 0.0138 0.0078

Uranus 105786-12-01 23:16 G 40358938.30 40358938.47 40358938.66 0.0137 0.0051

Uranus 105787-02-28 07:11 G 40359026.61 40359026.80 40359026.99 0.0137 0.0023

Moon 105787-04-18 09:06 G 40359075.86 40359075.88 40359075.89 0.2646 0.2619

Earth 105787-04-18 09:06 G 40359075.86 40359075.88 40359075.91 0.2653 0.2553 *

Uranus 105787-05-27 14:52 G 40359114.92 40359115.12 40359115.31 0.0137 0.0005

Uranus 105787-08-23 22:18 G 40359203.25 40359203.43 40359203.62 0.0137 0.0032

Uranus 105787-11-20 05:45 G 40359291.58 40359291.74 40359291.93 0.0137 0.0060

Uranus 105788-02-16 13:25 G 40359379.92 40359380.06 40359380.22 0.0137 0.0088

Uranus 105788-05-14 20:52 G 40359468.29 40359468.37 40359468.50 0.0137 0.0115

Jupiter 105788-06-29 12:28 G 40359513.90 40359514.02 40359514.14 0.0515 0.0132

Jupiter 105788-09-26 16:32 G 40359603.16 40359603.19 40359603.24 0.0512 0.0483

Mars 105792-05-11 03:20 G 40360925.55 40360925.64 40360925.73 0.1683 0.1010

Mars 105793-06-14 04:04 G 40361324.64 40361324.67 40361324.70 0.1881 0.1847

Saturn 105794-01-13 04:47 G 40361537.68 40361537.70 40361537.73 0.0299 0.0290

Saturn 105794-04-11 17:16 G 40361626.10 40361626.22 40361626.34 0.0298 0.0111

Mars 105794-04-16 06:42 G 40361630.71 40361630.78 40361630.84 0.1657 0.1357

Saturn 105794-07-09 05:30 G 40361714.60 40361714.73 40361714.86 0.0298 0.0065

Saturn 105794-10-05 17:44 G 40361803.16 40361803.24 40361803.31 0.0297 0.0239

Jupiter 105794-11-13 21:20 G 40361842.23 40361842.39 40361842.54 0.0513 0.0279

Venus 105799-03-12 19:25 G 40363422.23 40363422.31 40363422.39 0.3712 0.3172

Jupiter 105800-04-18 17:01 G 40363824.10 40363824.21 40363824.31 0.0515 0.0289

Moon 105800-04-21 01:40 G 40363826.47 40363826.57 40363826.67 0.2653 0.1078

Earth 105800-04-21 02:23 G 40363826.50 40363826.60 40363826.70 0.2652 0.0997 *

Jupiter 105800-07-16 21:20 G 40363913.30 40363913.39 40363913.49 0.0513 0.0332

Mars 105801-10-02 14:23 G 40364356.07 40364356.10 40364356.13 0.1690 0.1609

Mars 105802-11-04 21:06 G 40364754.21 40364754.38 40364754.54 0.1872 0.0158

Venus 105803-03-09 08:23 G 40364878.77 40364878.85 40364878.92 0.3664 0.2498

Mars 105803-09-07 17:59 G 40365061.15 40365061.25 40365061.35 0.1663 0.0801

Venus 105804-09-27 06:13 G 40365446.68 40365446.76 40365446.84 0.3717 0.3160

Jupiter 105806-09-02 18:13 G 40366152.07 40366152.26 40366152.44 0.0512 0.0055

Venus 105808-09-21 23:44 G 40366902.39 40366902.49 40366902.59 0.3661 0.0743

Saturn 105809-07-25 11:30 G 40367208.85 40367208.98 40367209.12 0.0263 0.0183

Saturn 105809-10-22 08:52 G 40367297.68 40367297.87 40367298.06 0.0264 0.0002

Earth 105809-10-24 03:49 G 40367299.54 40367299.66 40367299.78 0.2681 0.1799

Moon 105809-10-24 05:44 G 40367299.60 40367299.74 40367299.88 0.2682 0.1415 *

Saturn 105810-01-19 06:13 G 40367386.62 40367386.76 40367386.90 0.0264 0.0182

Jupiter 105812-02-05 21:06 G 40368134.32 40368134.38 40368134.44 0.0516 0.0452

Mars 105812-03-26 14:23 G 40368184.00 40368184.10 40368184.20 0.1863 0.1498

Jupiter 105812-05-05 01:54 G 40368223.46 40368223.58 40368223.69 0.0513 0.0176

Mars 105813-01-28 05:01 G 40368491.60 40368491.71 40368491.83 0.1670 0.0226

Moon 105813-04-23 19:11 G 40368577.19 40368577.30 40368577.40 0.2656 0.0482

Earth 105813-04-23 19:25 G 40368577.20 40368577.31 40368577.41 0.2650 0.0558 *

Venus 105814-04-07 15:06 G 40368926.04 40368926.13 40368926.23 0.3658 0.1002

Jupiter 105818-06-21 14:23 G 40370461.93 40370462.10 40370462.28 0.0512 0.0177

Venus 105819-10-22 06:28 G 40370949.71 40370949.77 40370949.84 0.3655 0.2694

Mars 105822-06-20 16:18 G 40371922.06 40371922.18 40371922.29 0.1676 0.0355

Earth 105822-10-27 13:25 G 40372050.97 40372051.06 40372051.16 0.2683 0.2150

Moon 105822-10-27 14:52 G 40372051.04 40372051.12 40372051.21 0.2679 0.2252 *

Saturn 105823-08-30 19:11 G 40372358.19 40372358.30 40372358.41 0.0298 0.0165

Saturn 105823-11-27 07:25 G 40372446.68 40372446.81 40372446.94 0.0297 0.0013

Jupiter 105824-02-22 06:42 G 40372533.65 40372533.78 40372533.91 0.0514 0.0028

Saturn 105824-02-23 19:40 G 40372535.22 40372535.32 40372535.42 0.0297 0.0187

Earth 105826-04-26 12:28 G 40373327.95 40373328.02 40373328.08 0.2649 0.2088

Moon 105826-04-26 12:56 G 40373327.98 40373328.04 40373328.10 0.2653 0.2233 *

Uranus 105829-06-09 16:18 G 40374468.13 40374468.18 40374468.23 0.0140 0.0127

Uranus 105829-09-05 19:40 G 40374556.24 40374556.32 40374556.41 0.0140 0.0107

Uranus 105829-12-02 23:01 G 40374644.36 40374644.46 40374644.57 0.0140 0.0087

Uranus 105830-03-01 02:23 G 40374732.49 40374732.60 40374732.73 0.0141 0.0067

Jupiter 105830-04-09 09:35 G 40374771.80 40374771.90 40374772.00 0.0511 0.0424

Uranus 105830-05-28 05:59 G 40374820.63 40374820.75 40374820.88 0.0141 0.0046

Jupiter 105830-07-08 22:32 G 40374862.42 40374862.44 40374862.47 0.0514 0.0507

Uranus 105830-08-24 09:20 G 40374908.76 40374908.89 40374909.02 0.0141 0.0027

Uranus 105830-11-20 12:56 G 40374996.90 40374997.04 40374997.17 0.0141 0.0007

Uranus 105831-02-16 16:18 G 40375085.05 40375085.18 40375085.31 0.0141 0.0014

Uranus 105831-05-15 19:40 G 40375173.19 40375173.32 40375173.45 0.0141 0.0035

Uranus 105831-08-11 23:01 G 40375261.34 40375261.46 40375261.59 0.0141 0.0055

Uranus 105831-11-08 02:23 G 40375349.49 40375349.60 40375349.72 0.0141 0.0075

Mars 105831-11-11 03:20 G 40375352.54 40375352.64 40375352.73 0.1683 0.0942

Uranus 105832-02-04 05:44 G 40375437.65 40375437.74 40375437.84 0.0141 0.0095

Uranus 105832-05-02 09:06 G 40375525.82 40375525.88 40375525.96 0.0141 0.0116

Uranus 105832-07-29 12:42 G 40375614.00 40375614.03 40375614.07 0.0141 0.0135

Moon 105833-04-19 13:25 G 40375878.02 40375878.06 40375878.10 0.2657 0.2383

Earth 105833-04-19 13:54 G 40375878.03 40375878.08 40375878.14 0.2653 0.2230 *

Mars 105833-10-16 06:42 G 40376057.72 40376057.78 40376057.83 0.1657 0.1430

Jupiter 105835-12-11 11:30 G 40376843.86 40376843.98 40376844.11 0.0515 0.0120

Pluto 105835-12-18 06:13 G 40376850.68 40376850.76 40376850.84 0.0084 0.0067

Jupiter 105836-03-09 15:49 G 40376933.13 40376933.16 40376933.19 0.0512 0.0496

Pluto 105836-03-15 07:11 G 40376938.70 40376938.80 40376938.92 0.0084 0.0048

Pluto 105836-06-11 08:37 G 40377026.74 40377026.86 40377026.99 0.0084 0.0029

Pluto 105836-09-07 09:49 G 40377114.78 40377114.91 40377115.05 0.0084 0.0010

Pluto 105836-12-04 11:01 G 40377202.83 40377202.96 40377203.10 0.0084 0.0008

Pluto 105837-03-02 12:13 G 40377290.89 40377291.01 40377291.14 0.0084 0.0027

Pluto 105837-05-29 13:11 G 40377378.95 40377379.05 40377379.18 0.0083 0.0046

Pluto 105837-08-25 14:23 G 40377467.03 40377467.10 40377467.20 0.0083 0.0064

Pluto 105837-11-21 15:49 G 40377555.14 40377555.16 40377555.19 0.0083 0.0081

Saturn 105838-12-12 11:01 G 40377940.88 40377940.96 40377941.06 0.0263 0.0231

Saturn 105839-03-11 08:23 G 40378029.66 40378029.85 40378030.04 0.0263 0.0051

Saturn 105839-06-08 05:44 G 40378118.57 40378118.74 40378118.90 0.0264 0.0132

Mars 105841-04-02 14:23 G 40378783.05 40378783.10 40378783.14 0.1690 0.1539

Jupiter 105842-04-26 19:11 G 40379172.15 40379172.30 40379172.46 0.0513 0.0278

Mars 105842-05-05 22:04 G 40379181.25 40379181.42 40379181.59 0.1872 0.0324

Mars 105843-03-08 17:44 G 40379488.15 40379488.24 40379488.34 0.1663 0.0869

Moon 105846-04-22 07:11 G 40380628.69 40380628.80 40380628.90 0.2658 0.0613

Earth 105846-04-22 06:56 G 40380628.69 40380628.79 40380628.90 0.2651 0.0680 *

Jupiter 105847-09-29 16:04 G 40381154.06 40381154.17 40381154.28 0.0516 0.0275

Jupiter 105847-12-27 20:37 G 40381243.26 40381243.36 40381243.45 0.0513 0.0346

Mars 105851-09-25 14:52 G 40382611.01 40382611.12 40382611.24 0.1863 0.1366

Mars 105852-07-29 05:01 G 40382918.60 40382918.71 40382918.83 0.1670 0.0304

Neptune 105852-11-30 04:47 G 40383042.64 40383042.70 40383042.79 0.0089 0.0083

Saturn 105853-01-16 19:54 G 40383090.25 40383090.33 40383090.41 0.0298 0.0235

Neptune 105853-02-26 08:23 G 40383130.76 40383130.85 40383130.98 0.0089 0.0073

Saturn 105853-04-15 08:08 G 40383178.71 40383178.84 40383178.97 0.0298 0.0058

Neptune 105853-05-25 12:28 G 40383218.89 40383219.02 40383219.17 0.0089 0.0062

Saturn 105853-07-12 20:23 G 40383267.23 40383267.35 40383267.47 0.0297 0.0118

Neptune 105853-08-21 16:04 G 40383307.02 40383307.17 40383307.34 0.0089 0.0051

Saturn 105853-10-09 08:23 G 40383355.84 40383355.85 40383355.88 0.0297 0.0292

Neptune 105853-11-17 19:54 G 40383395.16 40383395.33 40383395.51 0.0089 0.0041

Jupiter 105854-02-12 16:18 G 40383481.99 40383482.18 40383482.36 0.0513 0.0057

Neptune 105854-02-13 23:30 G 40383483.31 40383483.48 40383483.68 0.0089 0.0031

Neptune 105854-05-13 03:35 G 40383571.46 40383571.65 40383571.84 0.0089 0.0020

Neptune 105854-08-09 07:11 G 40383659.61 40383659.80 40383660.00 0.0089 0.0009

Neptune 105854-11-05 11:01 G 40383747.76 40383747.96 40383748.16 0.0089 0.0001

Neptune 105855-02-01 14:52 G 40383835.92 40383836.12 40383836.31 0.0089 0.0012

Neptune 105855-04-30 18:28 G 40383924.08 40383924.27 40383924.46 0.0089 0.0022

Neptune 105855-07-27 22:18 G 40384012.25   40384012.43   40384012.61 0.0090 0.0033

Venus   105855-10-18 21:49 G 40384095.27   40384095.41   40384095.56 0.3713 0.1242

Neptune 105855-10-24 01:54 G 40384100.42   40384100.58   40384100.76 0.0090 0.0044

Earth   105855-10-25 10:47 G 40384101.81   40384101.95   40384102.10 0.2681 0.1053

Moon   105855-10-25 11:30 G 40384101.82   40384101.98   40384102.13 0.2675 0.0897 *

Neptune 105856-01-20 05:30 G 40384188.59   40384188.73   40384188.90 0.0090 0.0055

Neptune 105856-04-17 09:20 G 40384276.77   40384276.89   40384277.04 0.0090 0.0065

Neptune 105856-07-14 12:56 G 40384364.96   40384365.04   40384365.16 0.0090 0.0076

Neptune 105856-10-10 17:01 G 40384453.17   40384453.21   40384453.27 0.0090 0.0086

Earth   105859-04-24 23:59 G 40385379.40   40385379.50   40385379.60 0.2650 0.0872

Moon   105859-04-25 00:42 G 40385379.43   40385379.53   40385379.63 0.2650 0.0927 *

Jupiter 105859-07-18 20:37 G 40385464.29   40385464.36   40385464.42 0.0516 0.0433

Venus   105859-10-14 05:44 G 40385551.65   40385551.74   40385551.83 0.3663 0.1892

Jupiter 105859-10-16 01:11 G 40385553.43   40385553.55   40385553.67 0.0513 0.0193

Mars   105861-12-19 16:18 G 40386349.06   40386349.18   40386349.29 0.1676 0.0281

Venus   105865-04-28 21:20 G 40387575.28   40387575.39   40387575.49 0.3660 0.0221

Jupiter 105865-12-01 13:11 G 40387791.88   40387792.05   40387792.22 0.0512 0.0166

Saturn   105868-07-28 05:59 G 40388761.59   40388761.75   40388761.93 0.0263 0.0114

Saturn   105868-10-25 03:20 G 40388850.46   40388850.64   40388850.83 0.0264 0.0070

Moon   105868-10-27 18:42 G 40388853.24   40388853.28   40388853.33 0.2679 0.2571

Saturn   105869-01-22 00:56 G 40388939.49   40388939.54   40388939.59 0.0264 0.0254

Uranus   105870-04-02 07:54 G 40389374.77   40389374.83   40389374.93 0.0138 0.0125

Uranus   105870-06-29 15:49 G 40389463.03   40389463.16   40389463.30 0.0138 0.0097

Uranus   105870-09-25 23:16 G 40389551.31   40389551.47   40389551.64 0.0138 0.0070

Venus   105870-11-12 12:42 G 40389598.94   40389599.03   40389599.12 0.3657 0.1576

Uranus   105870-12-23 06:56 G 40389639.61   40389639.79   40389639.98 0.0137 0.0042

Uranus   105871-03-21 14:37 G 40389727.92   40389728.11   40389728.30 0.0137 0.0015

Mars   105871-05-12 03:20 G 40389779.54   40389779.64   40389779.73 0.1683 0.0873

Uranus   105871-06-17 22:18 G 40389816.23   40389816.43   40389816.62 0.0137 0.0013

Jupiter 105871-08-04 05:30 G 40389863.60   40389863.73   40389863.86 0.0514 0.0034

Uranus 105871-09-14 05:44 G 40389904.56 40389904.74 40389904.93 0.0137 0.0040

Uranus 105871-12-11 13:25 G 40389992.90 40389993.06 40389993.23 0.0137 0.0068

Uranus 105872-03-08 20:52 G 40390081.24 40390081.37 40390081.52 0.0137 0.0096

Earth 105872-04-26 17:01 G 40390130.17 40390130.21 40390130.26 0.2649 0.2410

Moon 105872-04-26 17:16 G 40390130.19 40390130.22 40390130.26 0.2643 0.2496 *

Uranus 105872-06-05 04:47 G 40390169.62 40390169.70 40390169.79 0.0137 0.0123

Mars 105873-04-16 06:28 G 40390484.73 40390484.77 40390484.82 0.1657 0.1504

Venus 105876-05-28 04:04 G 40391622.62 40391622.67 40391622.71 0.3654 0.3267

Jupiter 105877-09-19 09:35 G 40392101.79 40392101.90 40392102.02 0.0511 0.0393

Earth 105879-04-20 18:42 G 40392680.21 40392680.28 40392680.35 0.2653 0.1912

Moon 105879-04-20 19:11 G 40392680.22 40392680.30 40392680.37 0.2658 0.1843 *

Mars 105880-10-01 14:08 G 40393210.04 40393210.09 40393210.15 0.1689 0.1470

Mars 105881-11-03 23:01 G 40393608.30 40393608.46 40393608.62 0.1873 0.0484

Saturn 105882-06-05 21:49 G 40393822.38 40393822.41 40393822.44 0.0298 0.0288

Saturn 105882-09-02 10:04 G 40393910.81 40393910.92 40393911.05 0.0298 0.0111

Mars 105882-09-06 17:44 G 40393915.15 40393915.24 40393915.34 0.1663 0.0943

Saturn 105882-11-29 22:18 G 40393999.31 40393999.43 40393999.56 0.0297 0.0068

Saturn 105883-02-26 10:32 G 40394087.87 40394087.94 40394088.02 0.0297 0.0240

Jupiter 105883-05-23 10:18 G 40394173.80 40394173.93 40394174.05 0.0515 0.0117

Jupiter 105883-08-20 14:37 G 40394263.08 40394263.11 40394263.13 0.0512 0.0498

Jupiter 105889-10-06 17:30 G 40396502.07 40396502.23 40396502.38 0.0513 0.0282

Mars 105891-03-26 16:04 G 40397038.04 40397038.17 40397038.30 0.1863 0.1189

Mars 105892-01-28 05:01 G 40397345.60 40397345.71 40397345.82 0.1669 0.0372

Earth 105892-04-22 11:44 G 40397430.88 40397430.99 40397431.10 0.2651 0.0360

Moon 105892-04-22 12:13 G 40397430.91 40397431.01 40397431.12 0.2648 0.0264 *

Jupiter 105895-03-11 15:06 G 40398484.02 40398484.13 40398484.24 0.0516 0.0268

Jupiter 105895-06-08 19:25 G 40398573.22 40398573.31 40398573.41 0.0513 0.0355

Saturn 105897-12-15 05:59 G 40399493.61 40399493.75 40399493.91 0.0263 0.0158

Saturn 105898-03-14 03:20 G 40399582.45 40399582.64 40399582.83 0.0264 0.0024

Saturn 105898-06-11 00:42 G 40399671.42 40399671.53 40399671.65 0.0264 0.0208

Mars 105901-06-20 16:04 G 40400776.06 40400776.17 40400776.29 0.1676 0.0215

Jupiter 105901-07-26 13:54 G 40400811.90 40400812.08 40400812.27 0.0512 0.0054

Moon 105901-10-26 16:04 G 40400904.01 40400904.17 40400904.33 0.2682 0.0634

Earth 105901-10-26 17:59 G 40400904.08 40400904.25 40400904.41 0.2681 0.0306 *

Moon 105905-04-26 04:47 G 40402181.60 40402181.70 40402181.80 0.2643 0.1198

Earth 105905-04-26 04:47 G 40402181.60 40402181.70 40402181.80 0.2650 0.1189 *

Jupiter 105906-12-29 19:25 G 40402794.24 40402794.31 40402794.39 0.0516 0.0425

Jupiter 105907-03-29 00:13 G 40402883.39 40402883.51 40402883.63 0.0514 0.0202

Venus 105910-11-05 11:44 G 40404200.93 40404200.99 40404201.04 0.3666 0.3058

Mars 105910-11-11 03:20 G 40404206.54 40404206.64 40404206.74 0.1682 0.0795

Saturn 105912-01-21 11:30 G 40404642.87 40404642.98 40404643.08 0.0298 0.0173

Saturn 105912-04-18 23:44 G 40404731.36 40404731.49 40404731.62 0.0298 0.0004

Venus 105912-05-26 00:28 G 40404768.37 40404768.52 40404768.68 0.3715 0.0727

Saturn 105912-07-16 11:59 G 40404819.90 40404820.00 40404820.10 0.0297 0.0178

Mars 105912-10-16 06:28 G 40404911.74 40404911.77 40404911.81 0.1657 0.1578

Uranus 105913-04-03 20:23 G 40405081.35 40405081.35 40405081.36 0.0140 0.0140

Jupiter 105913-05-14 11:01 G 40405121.78 40405121.96 40405122.13 0.0512 0.0168

Uranus 105913-06-30 23:44 G 40405169.43 40405169.49 40405169.57 0.0140 0.0120

Uranus 105913-09-27 03:06 G 40405257.55 40405257.63 40405257.74 0.0140 0.0101

Uranus 105913-12-24 06:56 G 40405345.68 40405345.79 40405345.90 0.0140 0.0080

Uranus 105914-03-22 10:18 G 40405433.81 40405433.93 40405434.05 0.0140 0.0060

Uranus 105914-06-18 13:40 G 40405521.94 40405522.07 40405522.20 0.0141 0.0039

Uranus 105914-09-14 17:01 G 40405610.08 40405610.21 40405610.35 0.0141 0.0020

Uranus 105914-12-11 20:37 G 40405698.22 40405698.36 40405698.49 0.0141 0.0003

Uranus 105915-03-09 23:59 G 40405786.37 40405786.50 40405786.63 0.0141 0.0021

Uranus 105915-06-06 03:20 G 40405874.51 40405874.64 40405874.77 0.0141 0.0041

Uranus 105915-09-02 06:42 G 40405962.66 40405962.78 40405962.90 0.0141 0.0061

Uranus 105915-11-29 10:04 G 40406050.82 40406050.92 40406051.03 0.0141 0.0082

Uranus 105916-02-25 13:25 G 40406138.98 40406139.06 40406139.16 0.0141 0.0102

Venus 105916-05-21 03:06 G 40406224.54 40406224.63 40406224.73 0.3663 0.1301

Uranus 105916-05-23 16:47 G 40406227.14 40406227.20 40406227.27 0.0141 0.0122

Moon 105918-04-28 21:06 G 40406932.37 40406932.38 40406932.40 0.2646 0.2603

Jupiter 105919-01-15 04:47 G 40407193.57 40407193.70 40407193.83 0.0514 0.0048

Mars 105920-04-02 14:08 G 40407637.03 40407637.09 40407637.16 0.1689 0.1397

Mars 105921-05-05 23:44 G 40408035.33 40408035.49 40408035.65 0.1873 0.0636

Venus 105921-12-04 18:42 G 40408248.18 40408248.28 40408248.38 0.3660 0.0447

Mars 105922-03-08 17:44 G 40408342.15 40408342.24 40408342.33 0.1663 0.1018

Jupiter 105925-03-02 07:54 G 40409431.71 40409431.83 40409431.95 0.0511 0.0388

Earth 105925-04-21 23:30 G 40409482.39 40409482.48 40409482.56 0.2652 0.1590

Moon 105925-04-21 23:44 G 40409482.40 40409482.49 40409482.58 0.2648 0.1450 *

Saturn 105927-05-05 04:04 G 40410225.57 40410225.67 40410225.78 0.0263 0.0218

Venus 105927-06-20 10:04 G 40410271.84 40410271.92 40410272.00 0.3657 0.2151

Saturn 105927-08-02 01:25 G 40410314.37 40410314.56 40410314.75 0.0264 0.0037

Saturn 105927-10-29 22:47 G 40410403.29 40410403.45 40410403.61 0.0264 0.0146

Mars 105930-09-25 17:16 G 40411465.08 40411465.22 40411465.36 0.1864 0.1021

Jupiter 105930-11-03 08:52 G 40411503.75 40411503.87 40411504.00 0.0515 0.0115

Jupiter 105931-01-31 13:11 G 40411593.03 40411593.05 40411593.08 0.0512 0.0501

Mars 105931-07-30 05:01 G 40411772.60 40411772.71 40411772.82 0.1669 0.0447

Neptune 105933-04-01 03:35 G 40412383.64 40412383.65 40412383.68 0.0088 0.0086

Neptune 105933-06-28 05:01 G 40412471.66 40412471.71 40412471.77 0.0088 0.0079

Neptune 105933-09-24 06:13 G 40412559.70 40412559.76 40412559.84 0.0088 0.0073

Neptune 105933-12-21 07:25 G 40412647.74 40412647.81 40412647.91 0.0088 0.0066

Neptune 105934-03-19 08:52 G 40412735.78 40412735.87 40412735.97 0.0088 0.0059

Neptune 105934-06-15 10:18 G 40412823.82 40412823.93 40412824.04 0.0088 0.0052

Neptune 105934-09-11 11:16 G 40412911.87 40412911.97 40412912.10 0.0088 0.0046

Neptune 105934-12-08 12:42 G 40412999.92 40413000.03 40413000.16 0.0088 0.0039

Neptune 105935-03-06 14:08 G 40413087.97 40413088.09 40413088.21 0.0088 0.0032

Neptune 105935-06-02 15:20 G 40413176.02 40413176.14 40413176.27 0.0088 0.0025

Neptune 105935-08-29 16:32 G 40413264.07 40413264.19 40413264.33 0.0088 0.0019

Neptune 105935-11-25 17:59 G 40413352.12 40413352.25 40413352.38 0.0088 0.0012

Neptune 105936-02-21 19:11 G 40413440.17 40413440.30 40413440.44 0.0088 0.0005

Neptune 105936-05-19 20:37 G 40413528.22 40413528.36 40413528.49 0.0088 0.0003

Neptune 105936-08-15 21:49 G 40413616.28 40413616.41 40413616.54 0.0088 0.0009

Neptune 105936-11-11 23:01 G 40413704.33 40413704.46 40413704.59 0.0088 0.0015

Neptune 105937-02-08 00:13 G 40413792.39 40413792.51 40413792.64 0.0088 0.0022

Jupiter 105937-03-19 17:01 G 40413832.07 40413832.21 40413832.36 0.0513 0.0308

Neptune 105937-05-07 01:25 G 40413880.44 40413880.56 40413880.69 0.0088 0.0029

Neptune 105937-08-03 02:37 G 40413968.50 40413968.61 40413968.74 0.0088 0.0036

Neptune 105937-10-30 04:04 G 40414056.55 40414056.67 40414056.79 0.0088 0.0042

Neptune 105938-01-26 05:16 G 40414144.61 40414144.72 40414144.83 0.0088 0.0049

Neptune 105938-04-24 06:28 G 40414232.67 40414232.77 40414232.88 0.0088 0.0056

Moon 105938-04-24 16:18 G 40414233.07 40414233.18 40414233.29 0.2644 0.0147

Earth 105938-04-24 16:32 G 40414233.08 40414233.19 40414233.29 0.2651 0.0102 *

Neptune 105938-07-21 07:54 G 40414320.74 40414320.83 40414320.92 0.0088 0.0062

Neptune 105938-10-17 08:52 G 40414408.80 40414408.87 40414408.96 0.0088 0.0069

Neptune 105939-01-13 10:04 G 40414496.87 40414496.92 40414497.00 0.0088 0.0076

Neptune 105939-04-11 11:30 G 40414584.94 40414584.98 40414585.03 0.0088 0.0082

Mars 105940-12-19 16:04 G 40415203.06 40415203.17 40415203.29 0.1676 0.0139

Saturn 105941-06-09 13:40 G 40415374.99 40415375.07 40415375.16 0.0298 0.0222

Saturn 105941-09-06 02:08 G 40415463.46 40415463.59 40415463.71 0.0297 0.0045

Saturn 105941-12-03 14:08 G 40415551.98 40415552.09 40415552.21 0.0297 0.0131

Jupiter 105942-08-22 13:25 G 40415813.96 40415814.06 40415814.18 0.0516 0.0269

Jupiter 105942-11-19 17:59 G 40415903.16 40415903.25 40415903.34 0.0513 0.0354

Moon 105947-10-28 00:28 G 40417706.36 40417706.52 40417706.68 0.2689 0.0295

Earth 105947-10-28 00:42 G 40417706.37 40417706.53 40417706.70 0.2682 0.0458 *

Jupiter 105949-01-05 11:59 G 40418141.82 40418142.00 40418142.18 0.0512 0.0054

Mars 105950-05-12 03:06 G 40418633.53 40418633.63 40418633.74 0.1682 0.0727

Moon 105951-04-27 08:52 G 40418983.78 40418983.87 40418983.96 0.2650 0.1456

Earth 105951-04-27 09:35 G 40418983.81 40418983.90 40418983.99 0.2650 0.1508 *

Mars 105952-04-16 06:28 G 40419338.76 40419338.77 40419338.78 0.1657 0.1648

Uranus 105954-04-23 15:06 G 40420076.05 40420076.13 40420076.24 0.0138 0.0118

Jupiter 105954-06-10 18:13 G 40420124.18 40420124.26 40420124.33 0.0517 0.0423

Uranus 105954-07-20 23:01 G 40420164.32 40420164.46 40420164.61 0.0138 0.0090

Jupiter 105954-09-07 22:47 G 40420213.34 40420213.45 40420213.57 0.0514 0.0206

Uranus 105954-10-17 06:28 G 40420252.61 40420252.77 40420252.95 0.0138 0.0063

Uranus 105955-01-13 14:08 G 40420340.91 40420341.09 40420341.28 0.0138 0.0035

Uranus 105955-04-11 21:49 G 40420429.22 40420429.41 40420429.60 0.0137 0.0008

Uranus 105955-07-09 05:30 G 40420517.54 40420517.73 40420517.92 0.0137 0.0020

Uranus 105955-10-05 12:56 G 40420605.87 40420606.04 40420606.23 0.0137 0.0048

Uranus 105956-01-01 20:23 G 40420694.20 40420694.35 40420694.53 0.0137 0.0076

Uranus 105956-03-30 04:18 G 40420782.56 40420782.68 40420782.81 0.0137 0.0102

Uranus 105956-06-26 11:44 G 40420870.95 40420870.99 40420871.07 0.0137 0.0130

Saturn 105956-09-21 04:32 G 40420957.67 40420957.69 40420957.73 0.0263 0.0259

Saturn 105956-12-19 01:54 G 40421046.40 40421046.58 40421046.76 0.0264 0.0078

Saturn 105957-03-17 23:16 G 40421135.29 40421135.47 40421135.65 0.0264 0.0105

Mars 105959-10-02 14:08 G 40422064.02 40422064.09 40422064.16 0.1689 0.1322

Jupiter 105960-10-24 08:23 G 40422451.68 40422451.85 40422452.02 0.0511 0.0174

Mars 105960-11-04 00:56 G 40422462.39 40422462.54 40422462.69 0.1873 0.0817

Mars 105961-09-06 17:44 G 40422769.15 40422769.24 40422769.33 0.1663 0.1088

Venus 105963-06-16 16:32 G 40423417.14 40423417.19 40423417.23 0.3711 0.3558

Jupiter 105966-06-27 03:20 G 40424523.52 40424523.64 40424523.77 0.0514 0.0052

Venus 105967-06-12 09:06 G 40424873.81 40424873.88 40424873.96 0.3665 0.2453

Venus 105968-12-31 03:06 G 40425441.52 40425441.63 40425441.74 0.3716 0.2690

Mars 105970-03-26 17:44 G 40425892.10 40425892.24 40425892.39 0.1864 0.0883

Saturn 105970-10-27 15:20 G 40426107.10 40426107.14 40426107.19 0.0298 0.0279

Saturn 105971-01-24 03:49 G 40426195.54 40426195.66 40426195.78 0.0298 0.0101

Mars 105971-01-28 05:01 G 40426199.60 40426199.71 40426199.82 0.1669 0.0522

Saturn 105971-04-22 16:04 G 40426284.04 40426284.17 40426284.29 0.0297 0.0075

Moon 105971-04-23 03:35 G 40426284.56 40426284.65 40426284.75 0.2647 0.1316

Earth 105971-04-23 04:04 G 40426284.58 40426284.67 40426284.77 0.2652 0.1264 *

Saturn 105971-07-20 04:04 G 40426372.60 40426372.67 40426372.74 0.0297 0.0248

Jupiter 105972-08-12 05:16 G 40426761.61 40426761.72 40426761.84 0.0511 0.0395

Venus 105972-12-26 00:42 G 40426897.43 40426897.53 40426897.63 0.3662 0.0715

Jupiter 105978-04-15 07:54 G 40428833.71 40428833.83 40428833.96 0.0515 0.0105

Venus 105978-07-11 16:04 G 40428921.07 40428921.17 40428921.27 0.3659 0.1026

Jupiter 105978-07-13 12:13 G 40428923.00 40428923.01 40428923.02 0.0512 0.0509

Mars 105980-06-19 16:04 G 40429630.06 40429630.17 40429630.29 0.1675 0.0065

Moon 105980-10-24 23:01 G 40429757.43 40429757.46 40429757.49 0.2687 0.2636

Venus 105984-01-25 07:25 G 40430944.74 40430944.81 40430944.88 0.3656 0.2715

Moon 105984-04-24 20:37 G 40431035.25 40431035.36 40431035.47 0.2653 0.0172

Earth 105984-04-24 21:06 G 40431035.28 40431035.38 40431035.49 0.2651 0.0301 *

Jupiter 105984-08-29 14:52 G 40431161.98 40431162.12 40431162.27 0.0513 0.0306

Saturn 105986-05-08 00:13 G 40431778.35 40431778.51 40431778.68 0.0264 0.0136

Saturn 105986-08-04 21:35 G 40431867.22 40431867.40 40431867.59 0.0264 0.0047

Saturn 105986-11-01 19:11 G 40431956.21 40431956.30 40431956.39 0.0264 0.0232

Pluto 105988-10-16 15:35 G 40432671.07 40432671.15 40432671.28 0.0060 0.0051

Pluto 105989-01-12 17:01 G 40432759.09 40432759.21 40432759.37 0.0060 0.0041

Pluto 105989-04-10 18:28 G 40432847.12 40432847.27 40432847.45 0.0060 0.0031

Pluto 105989-07-07 20:08 G 40432935.16 40432935.34 40432935.52 0.0060 0.0021

Pluto 105989-10-03 21:06 G 40433023.20 40433023.38 40433023.59 0.0060 0.0012

Mars 105989-11-10 03:06 G 40433060.52 40433060.63 40433060.74 0.1682 0.0652

Pluto 105989-12-30 22:47 G 40433111.25 40433111.45 40433111.64 0.0060 0.0002

Jupiter 105990-02-01 11:59 G 40433143.89 40433144.00 40433144.11 0.0516 0.0269

Pluto 105990-03-28 23:59 G 40433199.31 40433199.50 40433199.70 0.0060 0.0008

Jupiter 105990-05-01 16:32 G 40433233.10 40433233.19 40433233.28 0.0513 0.0352

Pluto 105990-06-25 01:11 G 40433287.37 40433287.55 40433287.75 0.0060 0.0018

Pluto 105990-09-21 02:23 G 40433375.44 40433375.60 40433375.79 0.0060 0.0028

Pluto 105990-12-18 03:35 G 40433463.52 40433463.65 40433463.82 0.0060 0.0038

Pluto 105991-03-16 05:16 G 40433551.61 40433551.72 40433551.84 0.0060 0.0048

Pluto 105991-06-12 06:28 G 40433639.73 40433639.77 40433639.84 0.0060 0.0058

Earth 105993-10-28 07:40 G 40434508.68 40434508.82 40434508.97 0.2682 0.1201

Moon 105993-10-28 09:35 G 40434508.77 40434508.90 40434509.03 0.2683 0.1509 *

Jupiter 105996-06-17 11:01 G 40435471.78 40435471.96 40435472.15 0.0512 0.0073

Uranus 105997-04-24 04:18 G 40435782.64 40435782.68 40435782.72 0.0140 0.0132

Moon 105997-04-27 14:08 G 40435786.01 40435786.09 40435786.17 0.2656 0.1822

Earth 105997-04-27 14:08 G 40435786.02 40435786.09 40435786.17 0.2649 0.1832 *

Uranus 105997-07-21 07:40 G 40435870.75 40435870.82 40435870.90 0.0140 0.0112

Uranus 105997-10-17 11:01 G 40435958.87 40435958.96 40435959.07 0.0140 0.0093

Uranus 105998-01-13 14:37 G 40436047.00 40436047.11 40436047.23 0.0140 0.0072

Uranus 105998-04-11 17:59 G 40436135.13 40436135.25 40436135.38 0.0140 0.0052

Uranus 105998-07-08 21:35 G 40436223.27 40436223.40 40436223.53 0.0141 0.0032

Uranus 105998-10-05 00:56 G 40436311.41 40436311.54 40436311.67 0.0141 0.0012

Uranus 105999-01-01 04:18 G 40436399.55 40436399.68 40436399.82 0.0141 0.0009

Uranus 105999-03-30 07:54 G 40436487.70 40436487.83 40436487.95 0.0141 0.0029

Mars 105999-04-02 14:08 G 40436491.02 40436491.09 40436491.17 0.1689 0.1251

Uranus 105999-06-26 11:16 G 40436575.84 40436575.97 40436576.09 0.0141 0.0049

Uranus 105999-09-22 14:37 G 40436663.99 40436664.11 40436664.22 0.0141 0.0069

Uranus 105999-12-19 17:59 G 40436752.15 40436752.25 40436752.35 0.0141 0.0089

Uranus 106000-03-16 21:20 G 40436840.31 40436840.39 40436840.47 0.0141 0.0109

Mars 106000-05-05 01:54 G 40436889.43 40436889.58 40436889.72 0.1873 0.0974

Saturn 106000-06-12 06:13 G 40436927.65 40436927.76 40436927.87 0.0298 0.0146

Uranus 106000-06-13 00:42 G 40436928.49 40436928.53 40436928.58 0.0141 0.0130

Saturn 106000-09-08 18:28 G 40437016.14 40437016.27 40437016.40 0.0297 0.0030

Saturn 106000-12-06 06:28 G 40437104.69 40437104.77 40437104.87 0.0297 0.0205

107TH MILLENNIUM CE

This is a list of transits of Mercury in the 107th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	106001-03-07 17:44	G	40437196.16	40437196.24	40437196.32	0.1663	0.1162	
Jupiter	106001-11-20 16:32	G	40437454.12	40437454.19	40437454.26	0.0517	0.0427	
Jupiter	106002-02-17 21:06	G	40437543.27	40437543.38	40437543.50	0.0514	0.0202	
Moon	106004-04-20 15:06	G	40438336.11	40438336.13	40438336.16	0.2651	0.2560	
Earth	106004-04-20 15:49	G	40438336.12	40438336.16	40438336.19	0.2653	0.2501	*
Jupiter	106008-04-05 06:13	G	40439781.59	40439781.76	40439781.93	0.0511	0.0177	
Mars	106009-09-24 18:56	G	40440319.13	40440319.29	40440319.45	0.1864	0.0709	
Mars	106010-07-29 04:47	G	40440626.60	40440626.70	40440626.81	0.1669	0.0593	
Jupiter	106013-12-07 01:54	G	40441853.45	40441853.58	40441853.71	0.0515	0.0049	
Saturn	106015-09-25 01:11	G	40442510.41	40442510.55	40442510.70	0.0264	0.0174	
Saturn	106015-12-22 22:32	G	40442599.25	40442599.44	40442599.63	0.0264	0.0009	
Saturn	106016-03-20 19:40	G	40442688.20	40442688.32	40442688.46	0.0265	0.0194	
Moon	106017-04-23 08:23	G	40443086.75	40443086.85	40443086.95	0.2655	0.1091	
Earth	106017-04-23 08:52	G	40443086.77	40443086.87	40443086.97	0.2652	0.0940	*
Neptune	106017-08-28 02:08	G	40443213.52	40443213.59	40443213.69	0.0089	0.0081	
Neptune	106017-11-24 05:44	G	40443301.64	40443301.74	40443301.88	0.0089	0.0071	
Neptune	106018-02-20 09:49	G	40443389.77	40443389.91	40443390.06	0.0089	0.0060	
Neptune	106018-05-19 13:25	G	40443477.91	40443478.06	40443478.23	0.0089	0.0049	
Venus	106018-07-03 15:06	G	40443523.11	40443523.13	40443523.14	0.3667	0.3630	
Neptune	106018-08-15 17:16	G	40443566.05	40443566.22	40443566.40	0.0089	0.0039	
Neptune	106018-11-11 20:52	G	40443654.19	40443654.37	40443654.56	0.0089	0.0029	
Neptune	106019-02-08 00:42	G	40443742.34	40443742.53	40443742.73	0.0089	0.0018	
Neptune	106019-05-07 04:32	G	40443830.50	40443830.69	40443830.89	0.0089	0.0007	
Neptune	106019-08-03 08:23	G	40443918.65	40443918.85	40443919.04	0.0089	0.0003	
Neptune	106019-10-30 11:59	G	40444006.81	40444007.00	40444007.20	0.0089	0.0014	

Mars 106019-12-19 16:04 G 40444057.05 40444057.17 40444057.28 0.1676 0.0022

Venus 106020-01-21 18:56 G 40444090.15 40444090.29 40444090.43 0.3713 0.1654

Jupiter 106020-01-23 02:37 G 40444091.50 40444091.61 40444091.72 0.0510 0.0404

Neptune 106020-01-26 15:35 G 40444094.97 40444095.15 40444095.35 0.0089 0.0025

Neptune 106020-04-23 19:25 G 40444183.14 40444183.31 40444183.50 0.0089 0.0035

Neptune 106020-07-20 23:01 G 40444271.31 40444271.46 40444271.64 0.0089 0.0046

Neptune 106020-10-17 03:06 G 40444359.48 40444359.63 40444359.78 0.0089 0.0056

Neptune 106021-01-13 06:28 G 40444447.66 40444447.77 40444447.92 0.0089 0.0067

Neptune 106021-04-11 10:04 G 40444535.85 40444535.92 40444536.04 0.0090 0.0078

Neptune 106021-07-08 14:08 G 40444624.07 40444624.09 40444624.14 0.0090 0.0088

Venus 106024-01-17 06:28 G 40445546.69 40445546.77 40445546.86 0.3664 0.1865

Jupiter 106025-09-25 06:28 G 40446163.64 40446163.77 40446163.89 0.0515 0.0109

Jupiter 106025-12-23 10:47 G 40446252.93 40446252.95 40446252.96 0.0512 0.0507

Earth 106026-10-26 05:16 G 40446559.61 40446559.72 40446559.83 0.2681 0.1975

Moon 106026-10-26 07:11 G 40446559.68 40446559.80 40446559.92 0.2680 0.1815 *

Mars 106029-05-11 03:06 G 40447487.52 40447487.63 40447487.74 0.1682 0.0576

Venus 106029-08-01 22:04 G 40447570.32 40447570.42 40447570.52 0.3661 0.0114

Saturn 106029-10-30 08:37 G 40447659.76 40447659.86 40447659.96 0.0298 0.0194

Saturn 106030-01-26 20:52 G 40447748.24 40447748.37 40447748.50 0.0297 0.0018

Saturn 106030-04-25 09:06 G 40447836.77 40447836.88 40447836.99 0.0297 0.0157

Earth 106030-04-26 01:54 G 40447837.48 40447837.58 40447837.69 0.2650 0.0608

Moon 106030-04-26 02:08 G 40447837.49 40447837.59 40447837.69 0.2657 0.0702 *

Jupiter 106032-02-09 11:59 G 40448491.85 40448492.00 40448492.15 0.0513 0.0292

Venus 106035-02-15 13:25 G 40449593.97 40449594.06 40449594.15 0.3658 0.1601

Jupiter 106037-07-14 10:47 G 40450473.84 40450473.95 40450474.06 0.0516 0.0265

Jupiter 106037-10-11 15:20 G 40450563.05 40450563.14 40450563.23 0.0513 0.0356

Uranus 106038-02-14 15:49 G 40450689.13 40450689.16 40450689.19 0.0138 0.0135

Uranus 106038-05-13 23:16 G 40450777.36 40450777.47 40450777.59 0.0138 0.0108

Uranus 106038-08-10 06:42 G 40450865.63 40450865.78 40450865.94 0.0138 0.0081

Mars 106038-10-01 14:08 G 40450918.01 40450918.09 40450918.17 0.1689 0.1177

Uranus 106038-11-06 14:23 G 40450953.93 40450954.10 40450954.28 0.0138 0.0053

Uranus 106039-02-02 22:04 G 40451042.23 40451042.42 40451042.61 0.0138 0.0026

Uranus 106039-05-02 05:44 G 40451130.55 40451130.74 40451130.93 0.0137 0.0002

Uranus 106039-07-29 13:11 G 40451218.87 40451219.05 40451219.25 0.0137 0.0030

Uranus 106039-10-25 20:52 G 40451307.20 40451307.37 40451307.55 0.0137 0.0057

Earth 106039-10-29 14:37 G 40451311.00 40451311.11 40451311.22 0.2682 0.1940

Moon 106039-10-29 15:06 G 40451311.03 40451311.13 40451311.23 0.2675 0.2124 *

Mars 106039-11-04 02:37 G 40451316.48 40451316.61 40451316.75 0.1874 0.1134

Uranus 106040-01-22 04:32 G 40451395.54 40451395.69 40451395.85 0.0137 0.0084

Uranus 106040-04-19 11:59 G 40451483.90 40451484.00 40451484.13 0.0137 0.0112

Venus 106040-08-31 04:47 G 40451617.66 40451617.70 40451617.74 0.3655 0.3285

Mars 106040-09-05 17:44 G 40451623.16 40451623.24 40451623.31 0.1662 0.1239

Earth 106043-04-28 18:56 G 40452588.23 40452588.29 40452588.35 0.2649 0.2150

Moon 106043-04-28 19:40 G 40452588.26 40452588.32 40452588.38 0.2649 0.2204 *

Jupiter 106043-11-28 08:37 G 40452801.67 40452801.86 40452802.04 0.0512 0.0065

Saturn 106045-02-10 23:44 G 40453242.41 40453242.49 40453242.60 0.0264 0.0228

Saturn 106045-05-10 21:20 G 40453331.20 40453331.39 40453331.58 0.0264 0.0046

Saturn 106045-08-07 18:28 G 40453420.12 40453420.27 40453420.44 0.0264 0.0139

Mars 106049-03-25 20:08 G 40454746.18 40454746.34 40454746.50 0.1864 0.0534

Jupiter 106049-05-02 14:52 G 40454784.05 40454784.12 40454784.19 0.0517 0.0432

Jupiter 106049-07-30 19:25 G 40454873.20 40454873.31 40454873.43 0.0514 0.0197

Mars 106050-01-27 04:47 G 40455053.60 40455053.70 40455053.81 0.1669 0.0664

Moon 106050-04-21 20:08 G 40455138.28 40455138.34 40455138.39 0.2659 0.2219

Earth 106050-04-21 20:23 G 40455138.29 40455138.35 40455138.41 0.2653 0.2182 *

Jupiter 106055-09-16 04:47 G 40457111.53 40457111.70 40457111.88 0.0511 0.0167

Saturn 106059-03-19 11:16 G 40458391.89 40458391.97 40458392.05 0.0298 0.0238

Saturn 106059-06-15 23:30 G 40458480.36 40458480.48 40458480.61 0.0297 0.0061

Mars 106059-06-19 16:04 G 40458484.05 40458484.17 40458484.28 0.1675 0.0092

Saturn 106059-09-12 11:44 G 40458568.87 40458568.99 40458569.11 0.0297 0.0114

Saturn 106059-12-09 23:44 G 40458657.47 40458657.49 40458657.52 0.0296 0.0287

Jupiter 106061-05-18 23:59 G 40459183.38 40459183.50 40459183.63 0.0515 0.0046

Earth 106063-04-24 13:40 G 40459888.96 40459889.07 40459889.17 0.2652 0.0633

Moon 106063-04-24 13:54 G 40459888.98 40459889.08 40459889.19 0.2657 0.0598 *

Jupiter 106067-07-05 00:13 G 40461421.40 40461421.51 40461421.62 0.0510 0.0409

Mars 106068-11-09 03:06 G 40461914.52 40461914.63 40461914.74 0.1682 0.0507

Moon 106072-10-26 11:44 G 40463361.85 40463361.99 40463362.13 0.2674 0.1337

Earth 106072-10-26 12:13 G 40463361.87 40463362.01 40463362.16 0.2681 0.1228 *

Jupiter 106073-03-07 04:32 G 40463493.57 40463493.69 40463493.81 0.0516 0.0116

Jupiter 106073-06-04 08:52 G 40463582.85 40463582.87 40463582.90 0.0513 0.0502

Saturn 106074-07-01 01:11 G 40463974.54 40463974.55 40463974.58 0.0264 0.0262

Saturn 106074-09-27 22:32 G 40464063.26 40464063.44 40464063.62 0.0264 0.0080

Saturn 106074-12-25 19:54 G 40464152.15 40464152.33 40464152.51 0.0265 0.0103

Venus 106075-02-07 12:28 G 40464195.96 40464196.02 40464196.08 0.3666 0.3026

Earth 106076-04-26 06:42 G 40464639.68 40464639.78 40464639.88 0.2650 0.0928

Moon 106076-04-26 07:11 G 40464639.70 40464639.80 40464639.90 0.2649 0.1062 *

Venus 106076-08-27 21:20 G 40464763.23 40464763.39 40464763.55 0.3714 0.0252

Mars 106078-04-01 14:08 G 40465345.00 40465345.09 40465345.17 0.1689 0.1104

Mars 106079-05-05 03:49 G 40465743.54 40465743.66 40465743.78 0.1874 0.1309

Jupiter 106079-07-22 08:52 G 40465821.72 40465821.87 40465822.03 0.0512 0.0278

Mars 106080-03-06 17:30 G 40466050.16 40466050.23 40466050.30 0.1663 0.1308

Venus 106080-08-23 04:04 G 40466219.57 40466219.67 40466219.76 0.3663 0.1269

Uranus 106081-05-14 11:59 G 40466483.95 40466484.00 40466484.06 0.0140 0.0125

Uranus 106081-08-10 15:20 G 40466572.06 40466572.14 40466572.23 0.0140 0.0105

Uranus 106081-11-06 18:42 G 40466660.19 40466660.28 40466660.40 0.0140 0.0086

Uranus 106082-02-02 22:18 G 40466748.32 40466748.43 40466748.55 0.0140 0.0065

Uranus 106082-05-02 01:54 G 40466836.45 40466836.58 40466836.70 0.0140 0.0045

Uranus 106082-07-29 05:16 G 40466924.59 40466924.72 40466924.85 0.0141 0.0025

Uranus 106082-10-25 08:37 G 40467012.73 40467012.86 40467013.00 0.0141 0.0005

Uranus 106083-01-21 11:59 G 40467100.87 40467101.00 40467101.14 0.0141 0.0017

Uranus 106083-04-19 15:35 G 40467189.02 40467189.15 40467189.27 0.0141 0.0036

Uranus 106083-07-16 18:56 G 40467277.17 40467277.29 40467277.41 0.0141 0.0056

Uranus 106083-10-12 22:18 G 40467365.32 40467365.43 40467365.54 0.0141 0.0076

Uranus 106084-01-09 01:40 G 40467453.48 40467453.57 40467453.67 0.0141 0.0096

Pluto 106084-01-14 12:56 G 40467459.02 40467459.04 40467459.08 0.0084 0.0082

Uranus 106084-04-06 04:47 G 40467541.64 40467541.70 40467541.79 0.0141 0.0117

Pluto 106084-04-11 13:54 G 40467547.01 40467547.08 40467547.18 0.0084 0.0064

Uranus 106084-07-03 08:37 G 40467629.83 40467629.86 40467629.89 0.0141 0.0137

Pluto 106084-07-08 15:20 G 40467635.03 40467635.14 40467635.26 0.0084 0.0044

Pluto 106084-10-04 16:47 G 40467723.07 40467723.20 40467723.32 0.0084 0.0025

Jupiter 106084-12-24 08:52 G 40467803.77 40467803.87 40467803.98 0.0516 0.0274

Pluto 106084-12-31 17:59 G 40467811.11 40467811.25 40467811.38 0.0084 0.0007

Jupiter 106085-03-23 13:25 G 40467892.97 40467893.06 40467893.16 0.0513 0.0348

Pluto 106085-03-29 19:11 G 40467899.16 40467899.30 40467899.43 0.0084 0.0012

Pluto 106085-06-25 20:08 G 40467987.22 40467987.34 40467987.47 0.0084 0.0030

Pluto 106085-09-21 21:20 G 40468075.29 40468075.39 40468075.50 0.0083 0.0049

Moon 106085-10-29 19:54 G 40468113.27 40468113.33 40468113.40 0.2680 0.2426

Pluto 106085-12-18 22:47 G 40468163.37 40468163.45 40468163.52 0.0083 0.0067

Venus 106086-03-08 19:25 G 40468243.21 40468243.31 40468243.41 0.3660 0.0479

Saturn 106088-08-05 13:54 G 40469124.05 40469124.08 40469124.13 0.0298 0.0279

Mars 106088-09-23 20:37 G 40469173.19 40469173.36 40469173.53 0.1865 0.0398

Saturn 106088-11-02 02:23 G 40469212.48 40469212.60 40469212.73 0.0297 0.0101

Saturn 106089-01-29 14:37 G 40469300.99 40469301.11 40469301.24 0.0297 0.0074

Saturn 106089-04-28 02:37 G 40469389.55 40469389.61 40469389.68 0.0296 0.0248

Earth 106089-04-28 23:44 G 40469390.45 40469390.49 40469390.52 0.2649 0.2468

Moon 106089-04-28 23:44 G 40469390.46 40469390.49 40469390.53 0.2642 0.2461 *

Mars 106089-07-28 04:47 G 40469480.60 40469480.70 40469480.81 0.1669 0.0743

Jupiter 106091-05-10 05:16 G 40470131.54 40470131.72 40470131.90 0.0512 0.0046

Venus 106091-09-22 10:47 G 40470266.87 40470266.95 40470267.03 0.3657 0.2178

Earth 106096-04-22 01:11 G 40471940.47 40471940.55 40471940.63 0.2653 0.1857

Moon 106096-04-22 01:40 G 40471940.50 40471940.57 40471940.65 0.2656 0.1797 *

Jupiter 106096-10-12 13:25 G 40472113.99 40472114.06 40472114.13 0.0517 0.0432

Jupiter 106097-01-09 17:59 G 40472203.14 40472203.25 40472203.37 0.0514 0.0197

Neptune 106097-12-27 02:52 G 40472554.60 40472554.62 40472554.66 0.0088 0.0085

Neptune 106098-03-25 04:18 G 40472642.62 40472642.68 40472642.74 0.0088 0.0078

Neptune 106098-06-21 05:30 G 40472730.66 40472730.73 40472730.81 0.0088 0.0071

Neptune 106098-09-17 06:56 G 40472818.70 40472818.79 40472818.88 0.0088 0.0064

Neptune 106098-12-14 08:08 G 40472906.75 40472906.84 40472906.95 0.0088 0.0058

Mars 106098-12-18 16:04 G 40472911.05 40472911.17 40472911.28 0.1675 0.0165

Neptune 106099-03-12 09:20 G 40472994.79 40472994.89 40472995.01 0.0088 0.0051

Neptune 106099-06-08 10:47 G 40473082.84 40473082.95 40473083.07 0.0088 0.0044

Neptune 106099-09-04 12:13 G 40473170.89 40473171.01 40473171.13 0.0088 0.0037

Neptune 106099-12-01 13:11 G 40473258.94 40473259.05 40473259.19 0.0088 0.0031

Neptune 106100-02-27 14:37 G 40473346.99 40473347.11 40473347.24 0.0088 0.0024

Neptune 106100-05-26 16:04 G 40473435.04 40473435.17 40473435.30 0.0088 0.0017

Neptune 106100-08-22 17:16 G 40473523.09 40473523.22 40473523.35 0.0088 0.0010

Neptune 106100-11-18 18:28 G 40473611.14 40473611.27 40473611.41 0.0088 0.0004

Neptune 106101-02-14 19:54 G 40473699.19 40473699.33 40473699.46 0.0088 0.0004

Neptune 106101-05-13 21:06 G 40473787.25 40473787.38 40473787.51 0.0088 0.0010

Neptune 106101-08-09 22:18 G 40473875.30 40473875.43 40473875.56 0.0088 0.0017

Neptune 106101-11-05 23:30 G 40473963.36 40473963.48 40473963.61 0.0088 0.0024

Neptune 106102-02-02 00:56 G 40474051.41 40474051.54 40474051.66 0.0088 0.0030

Neptune 106102-05-01 01:54 G 40474139.47 40474139.58 40474139.71 0.0088 0.0037

Neptune 106102-07-28 03:06 G 40474227.53 40474227.63 40474227.76 0.0088 0.0044

Neptune 106102-10-24 04:32 G 40474315.59 40474315.69 40474315.80 0.0088 0.0050

Neptune 106103-01-20 05:44 G 40474403.65 40474403.74 40474403.84 0.0088 0.0057

Jupiter 106103-02-27 01:54 G 40474441.41 40474441.58 40474441.75 0.0511 0.0180

Neptune 106103-04-18 06:56 G 40474491.71 40474491.79 40474491.89 0.0088 0.0064

Neptune 106103-07-15 08:23 G 40474579.77 40474579.85 40474579.93 0.0088 0.0070

Neptune 106103-10-11 09:20 G 40474667.84 40474667.89 40474667.96 0.0088 0.0077

Neptune 106104-01-07 10:32 G 40474755.92 40474755.94 40474755.99 0.0088 0.0084

Saturn 106104-02-15 21:20 G 40474795.23 40474795.39 40474795.56 0.0264 0.0133

Saturn 106104-05-14 18:56 G 40474884.10 40474884.29 40474884.47 0.0264 0.0050

Saturn 106104-08-11 16:04 G 40474973.10 40474973.17 40474973.27 0.0265 0.0236

Mars 106108-05-11 02:52 G 40476341.51 40476341.62 40476341.74 0.1682 0.0438

Jupiter 106108-10-29 22:18 G 40476513.30 40476513.43 40476513.56 0.0515 0.0034

Earth 106109-04-25 18:13 G 40476691.15 40476691.26 40476691.37 0.2651 0.0309

Moon 106109-04-25 18:56 G 40476691.18 40476691.29 40476691.39 0.2648 0.0172 *

Jupiter 106114-12-15 22:18 G 40478751.33 40478751.43 40478751.54 0.0510 0.0407

Mars 106117-10-01 14:08 G 40479772.00 40479772.09 40479772.18 0.1688 0.1032

Saturn 106118-03-23 05:01 G 40479944.60 40479944.71 40479944.83 0.0298 0.0145

Saturn 106118-06-19 17:16 G 40480033.10 40480033.22 40480033.35 0.0297 0.0034

Saturn 106118-09-16 05:30 G 40480121.64 40480121.73 40480121.82 0.0296 0.0206

Moon 106118-10-28 17:16 G 40480164.06 40480164.22 40480164.38 0.2681 0.0647

Earth 106118-10-28 19:11 G 40480164.14 40480164.30 40480164.46 0.2681 0.0479 *

Mars 106118-11-04 04:32 G 40480170.59 40480170.69 40480170.80 0.1874 0.1474

Mars 106119-09-06 17:30 G 40480477.17 40480477.23 40480477.29 0.1662 0.1384

Jupiter 106120-08-18 02:37 G 40480823.49 40480823.61 40480823.74 0.0516 0.0125

Jupiter 106120-11-15 06:56 G 40480912.76 40480912.79 40480912.83 0.0513 0.0493

Uranus 106122-03-07 23:16 G 40481390.41 40481390.47 40481390.56 0.0138 0.0127

Moon 106122-04-28 11:16 G 40481441.87 40481441.97 40481442.07 0.2643 0.1166

Earth 106122-04-28 11:30 G 40481441.88 40481441.98 40481442.07 0.2650 0.1251 *

Uranus 106122-06-04 07:11 G 40481478.67 40481478.80 40481478.93 0.0138 0.0099

Uranus 106122-08-31 14:37 G 40481566.95 40481567.11 40481567.28 0.0138 0.0072

Uranus 106122-11-27 22:04 G 40481655.25 40481655.42 40481655.61 0.0138 0.0045

Uranus 106123-02-24 05:59 G 40481743.56 40481743.75 40481743.94 0.0138 0.0017

Uranus 106123-05-23 13:25 G 40481831.87 40481832.06 40481832.26 0.0137 0.0012

Uranus 106123-08-19 21:06 G 40481920.20 40481920.38 40481920.57 0.0137 0.0038

Uranus 106123-11-16 04:47 G 40482008.53 40482008.70 40482008.87 0.0137 0.0066

Uranus 106124-02-12 12:13 G 40482096.88 40482097.01 40482097.16 0.0137 0.0094

Uranus 106124-05-10 19:54 G 40482185.25 40482185.33 40482185.43 0.0137 0.0121

Jupiter 106127-01-02 06:28 G 40483151.61 40483151.77 40483151.92 0.0512 0.0269

Mars 106127-02-22 00:56 G 40483202.52 40483202.54 40483202.57 0.1696 0.1643

Mars 106128-03-25 21:49 G 40483600.24 40483600.41 40483600.58 0.1865 0.0215

Mars 106129-01-27 04:47 G 40483907.60 40483907.70 40483907.80 0.1669 0.0812

Venus 106131-09-15 09:49 G 40484868.84 40484868.91 40484868.99 0.3665 0.2426

Jupiter 106132-06-06 06:56 G 40485133.69 40485133.79 40485133.90 0.0517 0.0286

Jupiter 106132-09-03 11:44 G 40485222.89 40485222.99 40485223.08 0.0514 0.0339

Venus 106133-04-04 23:44 G 40485436.37 40485436.49 40485436.62 0.3715 0.2204

Saturn 106133-07-04 22:47 G 40485527.31 40485527.45 40485527.61 0.0264 0.0167

Saturn 106133-10-01 20:23 G 40485616.15 40485616.35 40485616.54 0.0265 0.0018

Saturn 106133-12-29 17:30 G 40485705.12 40485705.23 40485705.36 0.0265 0.0203

Venus 106137-03-31 01:25 G 40486892.46 40486892.56 40486892.66 0.3662 0.0669

Mars 106138-06-19 15:49 G 40487338.05 40487338.16 40487338.28 0.1675 0.0237

Jupiter 106138-10-21 02:23 G 40487461.42 40487461.60 40487461.78 0.0511 0.0033

Earth 106142-04-24 05:59 G 40488742.66 40488742.75 40488742.83 0.2653 0.1538

Moon 106142-04-24 06:28 G 40488742.68 40488742.77 40488742.85 0.2647 0.1507 *

Venus 106142-10-14 16:47 G 40488916.11 40488916.20 40488916.30 0.3659 0.1069

Jupiter 106144-03-25 11:16 G 40489443.91 40489443.97 40489444.04 0.0517 0.0446

Jupiter 106144-06-22 16:04 G 40489533.06 40489533.17 40489533.29 0.0514 0.0185

Saturn 106147-08-10 08:23 G 40490676.75 40490676.85 40490676.95 0.0297 0.0179

Saturn 106147-11-06 20:37 G 40490765.23 40490765.36 40490765.49 0.0297 0.0005

Mars 106147-11-10 03:06 G 40490768.51 40490768.63 40490768.74 0.1681 0.0356

Saturn 106148-02-03 08:52 G 40490853.76 40490853.87 40490853.97 0.0296 0.0172

Venus 106148-04-29 08:23 G 40490939.78 40490939.85 40490939.91 0.3656 0.2756

Jupiter 106150-08-08 22:32 G 40491771.27 40491771.44 40491771.61 0.0511 0.0201

Moon 106155-04-26 22:47 G 40493493.34 40493493.45 40493493.55 0.2646 0.0111

Earth 106155-04-26 23:01 G 40493493.35 40493493.46 40493493.57 0.2651 0.0023 *

Jupiter 106156-04-10 20:37 G 40493843.24 40493843.36 40493843.49 0.0515 0.0036

Mars 106157-04-01 13:54 G 40494198.99 40494199.08 40494199.18 0.1688 0.0961

Mars 106158-05-05 05:30 G 40494597.65 40494597.73 40494597.81 0.1875 0.1635

Mars 106159-03-07 17:30 G 40494904.18 40494904.23 40494904.29 0.1662 0.1460

Jupiter 106162-05-27 19:11 G 40496081.21 40496081.30 40496081.41 0.0510 0.0424

Jupiter 106162-08-26 08:08 G 40496171.81 40496171.84 40496171.87 0.0513 0.0503

Saturn 106162-11-21 22:04 G 40496259.32 40496259.42 40496259.54 0.0264 0.0216

Saturn 106163-02-18 19:25 G 40496348.12 40496348.31 40496348.50 0.0264 0.0034

Saturn 106163-05-18 16:47 G 40496437.05 40496437.20 40496437.36 0.0264 0.0151

Earth 106164-10-29 02:08 G 40496966.43 40496966.59 40496966.75 0.2681 0.0270

Moon 106164-10-29 02:23 G 40496966.44 40496966.60 40496966.75 0.2688 0.0330 *

Uranus 106165-03-08 15:49 G 40497097.16 40497097.16 40497097.19 0.0140 0.0139

Uranus 106165-06-04 19:40 G 40497185.25 40497185.32 40497185.39 0.0140 0.0119

Uranus 106165-08-31 23:01 G 40497273.37 40497273.46 40497273.56 0.0140 0.0099

Uranus 106165-11-28 02:23 G 40497361.50 40497361.60 40497361.72 0.0140 0.0079

Uranus 106166-02-24 05:59 G 40497449.63 40497449.75 40497449.87 0.0140 0.0058

Uranus 106166-05-23 09:20 G 40497537.77 40497537.89 40497538.02 0.0141 0.0038

Uranus 106166-08-19 12:56 G 40497625.91 40497626.04 40497626.17 0.0141 0.0018

Mars 106166-08-23 00:56 G 40497629.50 40497629.54 40497629.58 0.1695 0.1567

Uranus 106166-11-15 16:18 G 40497714.05 40497714.18 40497714.31 0.0141 0.0002

Uranus 106167-02-11 19:40 G 40497802.19 40497802.32 40497802.45 0.0141 0.0022

Uranus 106167-05-10 23:01 G 40497890.34 40497890.46 40497890.59 0.0141 0.0043

Uranus 106167-08-07 02:23 G 40497978.49 40497978.60 40497978.72 0.0141 0.0063

Mars 106167-09-24 22:47 G 40498027.28 40498027.45 40498027.62 0.1865 0.0065

Uranus 106167-11-03 05:44 G 40498066.64 40498066.74 40498066.86 0.0141 0.0083

Jupiter 106168-01-29 00:56 G 40498153.41 40498153.54 40498153.66 0.0515 0.0133

Uranus 106168-01-30 09:20 G 40498154.80 40498154.89 40498154.98 0.0141 0.0103

Jupiter 106168-04-27 05:16 G 40498242.68 40498242.72 40498242.76 0.0513 0.0483

Uranus 106168-04-27 12:42 G 40498242.97 40498243.03 40498243.10 0.0141 0.0123

Moon 106168-04-28 15:20 G 40498244.05 40498244.14 40498244.23 0.2649 0.1427

Earth 106168-04-28 16:04 G 40498244.09 40498244.17 40498244.26 0.2650 0.1569 *

Mars 106168-07-28 04:47 G 40498334.60 40498334.70 40498334.79 0.1668 0.0887

Jupiter 106174-06-14 04:18 G 40500481.52 40500481.68 40500481.84 0.0512 0.0268

Saturn 106176-12-27 10:47 G 40501408.87 40501408.95 40501409.04 0.0298 0.0225

Mars 106177-02-13 16:04 G 40501457.11 40501457.17 40501457.24 0.1855 0.1710

Saturn 106177-03-25 23:16 G 40501497.34 40501497.47 40501497.60 0.0297 0.0047

Saturn 106177-06-22 11:30 G 40501585.86 40501585.98 40501586.09 0.0297 0.0128

Mars 106177-12-18 15:49 G 40501765.05 40501765.16 40501765.28 0.1675 0.0309

Jupiter 106179-11-17 05:01 G 40502463.61 40502463.71 40502463.82 0.0516 0.0294

Jupiter 106180-02-14 09:49 G 40502552.81 40502552.91 40502553.00 0.0514 0.0330

Neptune 106182-02-26 19:54 G 40503296.32 40503296.33 40503296.37 0.0089 0.0089

Neptune 106182-05-25 23:30 G 40503384.41 40503384.48 40503384.59 0.0089 0.0079

Neptune 106182-08-22 03:06 G 40503472.53 40503472.63 40503472.78 0.0089 0.0069

Venus 106182-10-06 15:49 G 40503518.14 40503518.16 40503518.18 0.3668 0.3591

Neptune 106182-11-18 07:11 G 40503560.66 40503560.80 40503560.95 0.0089 0.0058

Neptune 106183-02-14 10:47 G 40503648.80 40503648.95 40503649.13 0.0089 0.0047

Neptune 106183-05-13 14:37 G 40503736.94 40503737.11 40503737.29 0.0089 0.0037

Neptune 106183-08-09 18:13 G 40503825.08 40503825.26 40503825.46 0.0089 0.0027

Neptune 106183-11-05 22:04 G 40503913.23 40503913.42 40503913.62 0.0089 0.0016

Neptune 106184-02-02 01:54 G 40504001.39 40504001.58 40504001.78 0.0089 0.0005

Venus 106184-04-25 15:49 G 40504085.03 40504085.16 40504085.29 0.3711 0.2068

Neptune 106184-04-30 05:44 G 40504089.54 40504089.74 40504089.93 0.0089 0.0005

Neptune 106184-07-27 09:20 G 40504177.70 40504177.89 40504178.09 0.0089 0.0016

Neptune 106184-10-23 12:56 G 40504265.86 40504266.04 40504266.24 0.0089 0.0026

Neptune 106185-01-19 16:47 G 40504354.03 40504354.20 40504354.38 0.0089 0.0037

Neptune 106185-04-17 20:23 G 40504442.20 40504442.35 40504442.53 0.0089 0.0048

Neptune 106185-07-15 00:13 G 40504530.37 40504530.51 40504530.67 0.0089 0.0058

Neptune 106185-10-11 03:49 G 40504618.55 40504618.66 40504618.80 0.0089 0.0069

Neptune 106186-01-07 07:54 G 40504706.74 40504706.83 40504706.92 0.0089 0.0079

Jupiter 106186-04-01 23:44 G 40504791.31 40504791.49 40504791.68 0.0511 0.0025

Neptune 106186-04-05 11:44 G 40504794.99 40504794.99 40504794.99 0.0089 0.0089

Mars 106187-05-11 02:52 G 40505195.51 40505195.62 40505195.74 0.1681 0.0287

Venus 106188-04-21 07:25 G 40505541.72 40505541.81 40505541.90 0.3665 0.1822

Moon 106188-04-24 10:18 G 40505544.83 40505544.93 40505545.02 0.2648 0.1260

Earth 106188-04-24 10:32 G 40505544.85 40505544.94 40505545.04 0.2652 0.1218 *

Jupiter 106191-09-05 09:06 G 40506773.83 40506773.88 40506773.94 0.0518 0.0460

Jupiter 106191-12-03 14:08 G 40506862.97 40506863.09 40506863.21 0.0515 0.0172

Saturn 106192-04-09 23:16 G 40506991.43 40506991.47 40506991.54 0.0264 0.0250

Saturn 106192-07-07 20:52 G 40507080.18 40507080.37 40507080.55 0.0264 0.0068

Saturn 106192-10-04 17:59 G 40507169.09 40507169.25 40507169.43 0.0265 0.0117

Venus 106193-11-04 23:01 G 40507565.35 40507565.46 40507565.56 0.3662 0.0175

Mars 106196-09-30 14:08 G 40508625.99 40508626.09 40508626.18 0.1688 0.0882

Mars 106197-11-03 06:42 G 40509024.74 40509024.78 40509024.82 0.1875 0.1812

Jupiter 106198-01-18 19:54 G 40509101.16 40509101.33 40509101.50 0.0510 0.0210

Mars 106198-09-05 17:30 G 40509331.19 40509331.23 40509331.27 0.1662 0.1533

Venus 106199-05-21 14:23 G 40509589.01 40509589.10 40509589.19 0.3659 0.1640

Moon 106201-04-28 03:06 G 40510295.52 40510295.63 40510295.74 0.2653 0.0185

Earth 106201-04-28 03:49 G 40510295.55 40510295.66 40510295.77 0.2651 0.0346 *

Jupiter 106203-09-22 18:42 G 40511173.15 40511173.28 40511173.41 0.0515 0.0019

Venus 106204-12-05 05:44 G 40511612.70 40511612.74 40511612.78 0.3656 0.3322

Mars 106206-02-22 00:56 G 40512056.49 40512056.54 40512056.59 0.1695 0.1493

Uranus 106206-03-29 07:40 G 40512091.73 40512091.82 40512091.93 0.0138 0.0116

Saturn 106206-05-17 14:23 G 40512141.04 40512141.10 40512141.17 0.0298 0.0255

Uranus 106206-06-25 15:06 G 40512180.00 40512180.13 40512180.29 0.0138 0.0089

Saturn 106206-08-14 02:52 G 40512229.49 40512229.62 40512229.74 0.0297 0.0078

Uranus 106206-09-21 22:47 G 40512268.29 40512268.45 40512268.63 0.0138 0.0062

Saturn 106206-11-10 14:52 G 40512318.00 40512318.12 40512318.25 0.0297 0.0098

Uranus 106206-12-19 06:28 G 40512356.59 40512356.77 40512356.96 0.0138 0.0034

Saturn 106207-02-07 02:52 G 40512406.58 40512406.62 40512406.68 0.0296 0.0271

Uranus 106207-03-17 14:08 G 40512444.90 40512445.09 40512445.29 0.0138 0.0007

Mars 106207-03-26 23:30 G 40512454.31 40512454.48 40512454.65 0.1865 0.0098

Uranus 106207-06-13 21:49 G 40512533.22 40512533.41 40512533.60 0.0137 0.0021

Uranus 106207-09-10 05:30 G 40512621.55 40512621.73 40512621.91 0.0137 0.0049

Uranus 106207-12-07 12:56 G 40512709.89 40512710.04 40512710.21 0.0137 0.0077

Mars 106208-01-28 04:47 G 40512761.61 40512761.70 40512761.79 0.1668 0.0964

Uranus 106208-03-04 20:23 G 40512798.24 40512798.35 40512798.49 0.0137 0.0105

Uranus 106208-06-01 04:18 G 40512886.64 40512886.68 40512886.74 0.0137 0.0131

Jupiter 106209-11-07 15:49 G 40513411.08 40513411.16 40513411.25 0.0510 0.0444

Jupiter 106210-02-06 04:32 G 40513501.63 40513501.69 40513501.76 0.0513 0.0479

Earth 106210-10-31 09:06 G 40513768.73 40513768.88 40513769.03 0.2682 0.1013

Moon 106210-10-31 11:01 G 40513768.82 40513768.96 40513769.11 0.2683 0.1186 *

Earth 106214-04-30 20:52 G 40515046.29 40515046.37 40515046.44 0.2649 0.1886

Moon 106214-04-30 20:52 G 40515046.30 40515046.37 40515046.44 0.2656 0.1939 *

Jupiter 106215-07-11 23:16 G 40515483.35 40515483.47 40515483.59 0.0516 0.0137

Jupiter 106215-10-09 03:35 G 40515572.61 40515572.65 40515572.69 0.0513 0.0480

Mars 106216-08-15 17:01 G 40515884.12 40515884.21 40515884.31 0.1856 0.1546

Mars 106217-06-19 15:49 G 40516192.05 40516192.16 40516192.27 0.1675 0.0381

Moon 106221-04-23 21:49 G 40517596.39 40517596.41 40517596.42 0.2650 0.2600

Earth 106221-04-23 22:18 G 40517596.39 40517596.43 40517596.47 0.2654 0.2451 *

Jupiter 106221-11-25 00:56 G 40517811.38 40517811.54 40517811.71 0.0513 0.0250

Saturn 106221-11-25 20:08 G 40517812.17 40517812.34 40517812.51 0.0264 0.0117

Saturn 106222-02-22 17:30 G 40517901.04 40517901.23 40517901.41 0.0264 0.0066

Saturn 106222-05-22 14:37 G 40517990.07 40517990.11 40517990.18 0.0265 0.0252

Mars 106226-11-10 02:52 G 40519622.51 40519622.62 40519622.74 0.1681 0.0211

Jupiter 106227-04-30 03:20 G 40519793.54 40519793.64 40519793.74 0.0516 0.0301

Jupiter 106227-07-28 07:54 G 40519882.73 40519882.83 40519882.93 0.0513 0.0322

Jupiter 106233-09-12 21:35 G 40522121.21 40522121.40 40522121.58 0.0512 0.0023

Moon 106234-04-26 14:52 G 40522347.02 40522347.12 40522347.22 0.2657 0.0924

Earth 106234-04-26 15:20 G 40522347.04 40522347.14 40522347.24 0.2652 0.0892 *

Saturn 106236-01-01 05:01 G 40522961.60 40522961.71 40522961.83 0.0298 0.0127

Saturn 106236-03-29 17:16 G 40523050.10 40523050.22 40523050.35 0.0297 0.0051

Mars 106236-04-01 13:54 G 40523052.98 40523053.08 40523053.18 0.1688 0.0812

Saturn 106236-06-26 05:30 G 40523138.65 40523138.73 40523138.81 0.0297 0.0224

Pluto 106236-11-13 20:23 G 40523279.32 40523279.35 40523279.44 0.0060 0.0057

Pluto 106237-02-09 22:04 G 40523367.31 40523367.42 40523367.55 0.0060 0.0047

Pluto 106237-05-08 23:30 G 40523455.33 40523455.48 40523455.64 0.0060 0.0037

Pluto 106237-08-05 00:28 G 40523543.37 40523543.52 40523543.71 0.0060 0.0028

Pluto 106237-11-01 02:08 G 40523631.41 40523631.59 40523631.78 0.0060 0.0018

Pluto 106238-01-28 03:35 G 40523719.46 40523719.65 40523719.84 0.0060 0.0008

Mars 106238-03-07 17:30 G 40523758.20 40523758.23 40523758.25 0.1662 0.1606

Pluto 106238-04-26 04:47 G 40523807.51 40523807.70 40523807.90 0.0060 0.0002

Pluto 106238-07-23 06:13 G 40523895.57 40523895.76 40523895.95 0.0060 0.0011

Pluto 106238-10-19 07:25 G 40523983.63 40523983.81 40523984.00 0.0060 0.0021

Pluto 106239-01-15 08:37 G 40524071.70 40524071.86 40524072.04 0.0060 0.0031

Jupiter 106239-02-16 07:25 G 40524103.76 40524103.81 40524103.87 0.0517 0.0464

Pluto 106239-04-13 09:49 G 40524159.79 40524159.91 40524160.07 0.0060 0.0041

Venus 106239-05-14 13:11 G 40524191.00 40524191.05 40524191.11 0.3667 0.2987

Jupiter 106239-05-16 12:28 G 40524192.90 40524193.02 40524193.14 0.0514 0.0166

Pluto 106239-07-10 11:01 G 40524247.88 40524247.96 40524248.08 0.0060 0.0051

Venus 106240-12-01 18:13 G 40524758.11 40524758.26 40524758.42 0.3713 0.0200

Earth 106243-10-29 06:42 G 40525819.68 40525819.78 40525819.87 0.2680 0.2165

Moon 106243-10-29 08:23 G 40525819.73 40525819.85 40525819.97 0.2678 0.1808 *

Venus 106244-11-27 04:47 G 40526214.61 40526214.70 40526214.80 0.3664 0.1225

Jupiter 106245-07-01 17:30 G 40526431.06 40526431.23 40526431.39 0.0510 0.0216

Mars 106245-08-23 00:56 G 40526483.48 40526483.54 40526483.60 0.1695 0.1421

Mars 106246-09-25 00:42 G 40526881.36 40526881.53 40526881.70 0.1866 0.0276

Earth 106247-04-29 08:23 G 40527097.75 40527097.85 40527097.96 0.2651 0.0668

Moon 106247-04-29 08:37 G 40527097.76 40527097.86 40527097.97 0.2657 0.0650 *

Mars 106247-07-29 04:32 G 40527188.61 40527188.69 40527188.78 0.1668 0.1037

Uranus 106249-03-29 23:30 G 40527798.45 40527798.48 40527798.53 0.0140 0.0133

Uranus 106249-06-26 03:06 G 40527886.55 40527886.63 40527886.71 0.0140 0.0113

Uranus 106249-09-22 06:28 G 40527974.68 40527974.77 40527974.87 0.0140 0.0093

Uranus 106249-12-19 10:04 G 40528062.80 40528062.92 40528063.03 0.0140 0.0072

Uranus 106250-03-17 13:25 G 40528150.94 40528151.06 40528151.18 0.0140 0.0052

Venus 106250-06-12 20:23 G 40528238.25 40528238.35 40528238.45 0.3661 0.0516

Uranus 106250-06-13 16:47 G 40528239.07 40528239.20 40528239.33 0.0140 0.0032

Uranus 106250-09-09 20:23 G 40528327.21 40528327.35 40528327.48 0.0140 0.0013

Uranus 106250-12-06 23:44 G 40528415.36 40528415.49 40528415.62 0.0141 0.0008

Jupiter 106251-03-04 16:47 G 40528503.07 40528503.20 40528503.32 0.0515 0.0018

Uranus 106251-03-05 03:06 G 40528503.50 40528503.63 40528503.76 0.0141 0.0028

Saturn 106251-04-14 21:20 G 40528544.23 40528544.39 40528544.54 0.0264 0.0153

Uranus 106251-06-01 06:28 G 40528591.65 40528591.77 40528591.90 0.0141 0.0049

Saturn 106251-07-12 18:28 G 40528633.08 40528633.27 40528633.46 0.0265 0.0031

Uranus 106251-08-28 09:49 G 40528679.80 40528679.91 40528680.03 0.0141 0.0069

Saturn 106251-10-09 15:49 G 40528722.06 40528722.16 40528722.28 0.0265 0.0216

Uranus 106251-11-24 13:11 G 40528767.96 40528768.05 40528768.16 0.0141 0.0089

Uranus 106252-02-20 16:32 G 40528856.12 40528856.19 40528856.28 0.0141 0.0109

Uranus 106252-05-18 19:54 G 40528944.29 40528944.33 40528944.40 0.0141 0.0129

Venus 106255-12-27 11:44 G 40530261.91 40530261.99 40530262.07 0.3658 0.2209

Mars 106256-02-14 17:59 G 40530311.14 40530311.25 40530311.36 0.1856 0.1388

Earth 106256-10-31 16:04 G 40530571.05 40530571.17 40530571.29 0.2682 0.1772

Moon 106256-10-31 16:32 G 40530571.07 40530571.19 40530571.31 0.2676 0.1812 *

Mars 106256-12-18 15:49 G 40530619.05 40530619.16 40530619.27 0.1675 0.0456

Jupiter 106257-04-19 13:40 G 40530740.98 40530741.07 40530741.16 0.0510 0.0446

Jupiter 106257-07-19 02:08 G 40530831.52 40530831.59 40530831.66 0.0513 0.0473

Earth 106260-05-01 01:25 G 40531848.51 40531848.56 40531848.62 0.2649 0.2202

Moon 106260-05-01 02:08 G 40531848.54 40531848.59 40531848.64 0.2651 0.2357 *

Neptune 106262-09-25 01:54 G 40532725.56 40532725.58 40532725.63 0.0088 0.0084

Jupiter 106262-12-21 21:06 G 40532813.26 40532813.38 40532813.51 0.0516 0.0152

Neptune 106262-12-22 03:20 G 40532813.59 40532813.64 40532813.71 0.0088 0.0077

Neptune 106263-03-20 04:47 G 40532901.63 40532901.70 40532901.79 0.0088 0.0070

Jupiter 106263-03-21 01:40 G 40532902.52 40532902.57 40532902.62 0.0513 0.0467

Neptune 106263-06-16 06:13 G 40532989.67 40532989.76 40532989.85 0.0088 0.0063

Neptune 106263-09-12 07:25 G 40533077.71 40533077.81 40533077.92 0.0088 0.0056

Neptune 106263-12-09 08:37 G 40533165.76 40533165.86 40533165.98 0.0088 0.0050

Neptune 106264-03-06 10:04 G 40533253.81 40533253.92 40533254.04 0.0088 0.0043

Neptune 106264-06-02 11:16 G 40533341.86 40533341.97 40533342.10 0.0088 0.0036

Neptune 106264-08-29 12:42 G 40533429.91 40533430.03 40533430.16 0.0088 0.0029

Neptune 106264-11-25 13:54 G 40533517.96 40533518.08 40533518.21 0.0088 0.0022

Neptune 106265-02-21 15:06 G 40533606.01 40533606.13 40533606.27 0.0088 0.0016

Saturn 106265-05-20 08:37 G 40533693.75 40533693.86 40533693.97 0.0297 0.0158

Neptune 106265-05-20 16:32 G 40533694.06 40533694.19 40533694.32 0.0088 0.0009

Neptune 106265-08-16 17:44 G 40533782.11 40533782.24 40533782.38 0.0088 0.0003

Saturn 106265-08-16 20:52 G 40533782.24 40533782.37 40533782.50 0.0297 0.0019 *

Neptune 106265-11-12 19:11 G 40533870.16 40533870.30 40533870.43 0.0088 0.0005

Saturn 106265-11-13 09:06 G 40533870.78 40533870.88 40533870.97 0.0296 0.0193

Neptune 106266-02-08 20:23 G 40533958.22 40533958.35 40533958.48 0.0088 0.0012

Neptune 106266-05-07 21:35 G 40534046.27 40534046.40 40534046.53 0.0088 0.0018

Mars 106266-05-11 02:52 G 40534049.51 40534049.62 40534049.74 0.1681 0.0136

Neptune 106266-08-03 22:47 G 40534134.33 40534134.45 40534134.58 0.0088 0.0025

Neptune 106266-10-30 23:59 G 40534222.38 40534222.50 40534222.63 0.0088 0.0032

Neptune 106267-01-27 01:11 G 40534310.44 40534310.55 40534310.68 0.0088 0.0039

Neptune 106267-04-25 02:37 G 40534398.50 40534398.61 40534398.73 0.0088 0.0045

Moon 106267-04-25 02:37 G 40534398.55 40534398.61 40534398.67 0.2659 0.2170 *

Earth 106267-04-25 03:06 G 40534398.56 40534398.63 40534398.69 0.2653 0.2127 *

Neptune 106267-07-22 03:49 G 40534486.56 40534486.66 40534486.77 0.0088 0.0052

Neptune 106267-10-18 05:01 G 40534574.62 40534574.71 40534574.82 0.0088 0.0059

Neptune 106268-01-14 06:28 G 40534662.68 40534662.77 40534662.86 0.0088 0.0065

Neptune 106268-04-11 07:25 G 40534750.75 40534750.81 40534750.90 0.0088 0.0072

Neptune 106268-07-08 08:37 G 40534838.82 40534838.86 40534838.93 0.0088 0.0079

Neptune 106268-10-04 10:04 G 40534926.90 40534926.92 40534926.96 0.0088 0.0085

Jupiter 106269-05-06 21:35 G 40535141.24 40535141.40 40535141.57 0.0512 0.0229

Jupiter 106274-10-10 01:54 G 40537123.47 40537123.58 40537123.68 0.0516 0.0304

Jupiter 106275-01-07 06:28 G 40537212.67 40537212.77 40537212.87 0.0513 0.0319

Mars 106275-10-01 13:54 G 40537479.98 40537480.08 40537480.18 0.1688 0.0736

Earth 106280-04-26 20:08 G 40539149.23 40539149.34 40539149.44 0.2652 0.0567

Moon 106280-04-26 20:23 G 40539149.25 40539149.35 40539149.46 0.2658 0.0550 *

Saturn 106280-08-31 20:23 G 40539276.24 40539276.35 40539276.48 0.0263 0.0202

Saturn 106280-11-28 17:44 G 40539365.05 40539365.24 40539365.43 0.0264 0.0020

Jupiter 106281-02-22 18:28 G 40539451.08 40539451.27 40539451.45 0.0512 0.0010

Saturn 106281-02-25 15:06 G 40539453.98 40539454.13 40539454.28 0.0264 0.0164

Mars 106285-02-21 00:56 G 40540910.47 40540910.54 40540910.60 0.1695 0.1348

Mars 106286-03-26 01:40 G 40541308.41 40541308.57 40541308.74 0.1866 0.0454

Jupiter 106286-07-29 05:59 G 40541433.70 40541433.75 40541433.80 0.0517 0.0468

Jupiter 106286-10-26 10:47 G 40541522.83 40541522.95 40541523.07 0.0514 0.0161

Mars 106287-01-27 04:32 G 40541615.61 40541615.69 40541615.78 0.1668 0.1110

Moon 106289-10-29 13:25 G 40542621.93 40542622.06 40542622.20 0.2674 0.1523

Earth 106289-10-29 13:40 G 40542621.93 40542622.07 40542622.20 0.2680 0.1411 *

Uranus 106290-01-20 07:25 G 40542704.79 40542704.81 40542704.85 0.0138 0.0136

Uranus 106290-04-18 14:52 G 40542793.02 40542793.12 40542793.25 0.0138 0.0109

Uranus 106290-07-15 22:47 G 40542881.30 40542881.45 40542881.61 0.0138 0.0081

Uranus 106290-10-12 06:13 G 40542969.59 40542969.76 40542969.95 0.0138 0.0054

Uranus 106291-01-08 13:54 G 40543057.90 40543058.08 40543058.28 0.0138 0.0027

Uranus 106291-04-06 21:35 G 40543146.21 40543146.40 40543146.60 0.0138 0.0004

Uranus 106291-07-04 05:16 G 40543234.53 40543234.72 40543234.91 0.0137 0.0029

Uranus 106291-09-30 12:56 G 40543322.87 40543323.04 40543323.22 0.0137 0.0057

Uranus 106291-12-27 20:23 G 40543411.21 40543411.35 40543411.51 0.0137 0.0085

Uranus 106292-03-25 04:18 G 40543499.57 40543499.68 40543499.79 0.0137 0.0112

Jupiter 106292-12-11 15:06 G 40543760.96 40543761.13 40543761.29 0.0511 0.0221

Earth 106293-04-29 13:11 G 40543899.95 40543900.05 40543900.15 0.2650 0.0980

Moon 106293-04-29 13:54 G 40543899.98 40543900.08 40543900.18 0.2649 0.1134 *

Saturn 106294-10-07 10:32 G 40544425.85 40544425.94 40544426.03 0.0298 0.0212

Saturn 106295-01-03 22:47 G 40544514.32 40544514.45 40544514.58 0.0298 0.0035

Saturn 106295-04-02 11:01 G 40544602.85 40544602.96 40544603.07 0.0297 0.0141

Mars 106295-08-15 18:56 G 40544738.16 40544738.29 40544738.41 0.1856 0.1229

Venus 106295-12-19 10:47 G 40544863.87 40544863.95 40544864.02 0.3666 0.2387

Mars 106296-06-18 15:49 G 40545046.05 40545046.16 40545046.27 0.1674 0.0530

Venus 106297-07-08 20:52 G 40545431.23 40545431.37 40545431.51 0.3714 0.1741

Jupiter 106298-08-14 15:06 G 40545833.00 40545833.13 40545833.26 0.0515 0.0006

Venus 106301-07-05 02:23 G 40546887.50 40546887.60 40546887.70 0.3663 0.0641

Moon 106302-11-02 21:06 G 40547373.31 40547373.38 40547373.46 0.2680 0.2344

Earth 106302-11-02 23:01 G 40547373.41 40547373.46 40547373.51 0.2682 0.2519 *

Jupiter 106304-09-30 11:30 G 40548070.89 40548070.98 40548071.06 0.0510 0.0450

Jupiter 106304-12-29 23:59 G 40548161.43 40548161.50 40548161.57 0.0513 0.0469

Mars 106305-11-10 02:52 G 40548476.50 40548476.62 40548476.73 0.1681 0.0069

Moon 106306-05-03 06:28 G 40548650.73 40548650.77 40548650.80 0.2643 0.2502

Earth 106306-05-03 06:13 G 40548650.73 40548650.76 40548650.79 0.2649 0.2522 *

Venus 106307-01-18 17:44 G 40548911.14 40548911.24 40548911.34 0.3660 0.1083

Saturn 106310-01-19 21:06 G 40550008.32 40550008.38 40550008.47 0.0264 0.0241

Saturn 106310-04-18 18:28 G 40550097.08 40550097.27 40550097.46 0.0264 0.0059

Jupiter 106310-06-03 19:11 G 40550143.18 40550143.30 40550143.43 0.0516 0.0162

Saturn 106310-07-16 15:35 G 40550185.99 40550186.15 40550186.33 0.0265 0.0125

Jupiter 106310-08-31 23:44 G 40550232.44 40550232.49 40550232.55 0.0513 0.0459

Venus 106312-08-03 09:06 G 40550934.82 40550934.88 40550934.95 0.3657 0.2780

Earth 106313-04-26 07:40 G 40551200.75 40551200.82 40551200.90 0.2653 0.1808

Moon 106313-04-26 08:08 G 40551200.76 40551200.84 40551200.93 0.2658 0.1664 *

Mars 106315-04-02 13:54 G 40551906.98 40551907.08 40551907.19 0.1688 0.0659

Jupiter 106316-10-17 19:54 G 40552471.16 40552471.33 40552471.49 0.0512 0.0231

Jupiter 106322-03-22 23:44 G 40554453.39 40554453.49 40554453.59 0.0517 0.0316

Jupiter 106322-06-20 04:32 G 40554542.59 40554542.69 40554542.79 0.0514 0.0308

Saturn 106324-02-25 13:54 G 40555158.01 40555158.08 40555158.15 0.0298 0.0245

Saturn 106324-05-24 02:08 G 40555246.47 40555246.59 40555246.72 0.0297 0.0068

Saturn 106324-08-20 14:23 G 40555334.98 40555335.10 40555335.22 0.0297 0.0108

Mars 106324-08-23 00:56 G 40555337.46 40555337.54 40555337.61 0.1694 0.1269

Saturn 106324-11-17 02:37 G 40555423.57 40555423.61 40555423.64 0.0296 0.0281

Mars 106325-09-25 02:23 G 40555735.44 40555735.60 40555735.76 0.1866 0.0591

Earth 106326-04-29 00:56 G 40555951.43 40555951.54 40555951.64 0.2652 0.0252

Moon 106326-04-29 01:25 G 40555951.45 40555951.56 40555951.67 0.2648 0.0204 *

Mars 106326-07-29 04:32 G 40556042.62 40556042.69 40556042.77 0.1668 0.1191

Jupiter 106328-08-05 15:20 G 40556780.95 40556781.14 40556781.32 0.0512 0.0016

Pluto 106332-05-10 21:20 G 40558155.34 40558155.39 40558155.45 0.0084 0.0076

Pluto 106332-08-06 22:18 G 40558243.35 40558243.43 40558243.54 0.0084 0.0057

Pluto 106332-11-02 23:44 G 40558331.37 40558331.49 40558331.61 0.0084 0.0038

Pluto 106333-01-30 00:56 G 40558419.41 40558419.54 40558419.67 0.0084 0.0020

Uranus 106333-04-20 06:56 G 40558499.74 40558499.79 40558499.85 0.0140 0.0127

Pluto 106333-04-28 02:08 G 40558507.46 40558507.59 40558507.73 0.0084 0.0002

Uranus 106333-07-17 10:18 G 40558587.86 40558587.93 40558588.03 0.0140 0.0107

Pluto 106333-07-25 03:20 G 40558595.51 40558595.64 40558595.77 0.0084 0.0017

Uranus 106333-10-13 13:54 G 40558675.98 40558676.08 40558676.19 0.0140 0.0087

Pluto 106333-10-21 04:32 G 40558683.57 40558683.69 40558683.81 0.0084 0.0036

Jupiter 106334-01-09 04:32 G 40558763.64 40558763.69 40558763.74 0.0517 0.0469

Uranus 106334-01-09 17:16 G 40558764.11 40558764.22 40558764.34 0.0140 0.0067

Pluto 106334-01-17 05:30 G 40558771.64 40558771.73 40558771.84 0.0083 0.0054

Uranus 106334-04-07 20:52 G 40558852.25 40558852.37 40558852.50 0.0140 0.0047

Jupiter 106334-04-08 09:20 G 40558852.77 40558852.89 40558853.01 0.0514 0.0161

Pluto 106334-04-15 06:42 G 40558859.73 40558859.78 40558859.85 0.0083 0.0072

Uranus 106334-07-05 00:13 G 40558940.38 40558940.51 40558940.64 0.0140 0.0027

Uranus 106334-10-01 03:49 G 40559028.52 40559028.66 40559028.79 0.0140 0.0008

Uranus 106334-12-28 07:11 G 40559116.67 40559116.80 40559116.93 0.0141 0.0014

Mars 106335-02-14 20:08 G 40559165.20 40559165.34 40559165.47 0.1857 0.1054

Uranus 106335-03-26 10:32 G 40559204.81 40559204.94 40559205.07 0.0141 0.0034

Uranus 106335-06-22 13:54 G 40559292.96 40559293.08 40559293.21 0.0141 0.0054

Uranus 106335-09-18 17:16 G 40559381.11 40559381.22 40559381.34 0.0141 0.0074

Moon 106335-10-31 18:42 G 40559424.13 40559424.28 40559424.43 0.2682 0.1032

Earth 106335-10-31 20:37 G 40559424.20 40559424.36 40559424.52 0.2681 0.0661 *

Uranus 106335-12-15 20:37 G 40559469.27 40559469.36 40559469.46 0.0141 0.0094

Mars 106335-12-19 15:49 G 40559473.05 40559473.16 40559473.26 0.1674 0.0609

Uranus 106336-03-12 23:59 G 40559557.43 40559557.50 40559557.58 0.0141 0.0114

Uranus 106336-06-09 03:20 G 40559645.61 40559645.64 40559645.69 0.0141 0.0134

Moon 106339-05-01 17:59 G 40560702.15 40560702.25 40560702.34 0.2644 0.1350

Earth 106339-05-01 17:59 G 40560702.15 40560702.25 40560702.34 0.2650 0.1308 *

Saturn 106339-09-05 17:30 G 40560829.07 40560829.23 40560829.41 0.0263 0.0110

Saturn 106339-12-03 14:52 G 40560917.94 40560918.12 40560918.31 0.0264 0.0073

Saturn 106340-03-01 12:13 G 40561006.98 40561007.01 40561007.05 0.0264 0.0258

Jupiter 106340-05-24 11:59 G 40561090.84 40561091.00 40561091.17 0.0511 0.0236

Mars 106345-05-11 02:52 G 40562903.50 40562903.62 40562903.73 0.1681 0.0047

Jupiter 106346-01-25 13:40 G 40563162.94 40563163.07 40563163.20 0.0515 0.0003

Neptune 106346-11-25 17:44 G 40563467.20 40563467.24 40563467.31 0.0089 0.0086

Venus 106347-01-10 16:32 G 40563513.17 40563513.19 40563513.21 0.3669 0.3564

Neptune 106347-02-21 21:20 G 40563555.31 40563555.39 40563555.52 0.0089 0.0076

Neptune 106347-05-21 01:25 G 40563643.43 40563643.56 40563643.70 0.0089 0.0065

Neptune 106347-08-17 05:01 G 40563731.56 40563731.71 40563731.87 0.0089 0.0054

Neptune 106347-11-13 08:37 G 40563819.70 40563819.86 40563820.04 0.0089 0.0044

Neptune 106348-02-09 12:28 G 40563907.85 40563908.02 40563908.21 0.0089 0.0034

Neptune 106348-05-07 16:04 G 40563995.99 40563996.17 40563996.37 0.0089 0.0024

Venus 106348-07-30 12:42 G 40564079.92 40564080.03 40564080.15 0.3710 0.2508

Neptune 106348-08-03 20:08 G 40564084.14 40564084.34 40564084.53 0.0089 0.0013

Neptune 106348-10-30 23:44 G 40564172.30 40564172.49 40564172.69 0.0089 0.0002

Neptune 106349-01-27 03:20 G 40564260.45 40564260.64 40564260.84 0.0089 0.0008

Neptune 106349-04-25 07:11 G 40564348.61 40564348.80 40564348.99 0.0089 0.0019

Neptune 106349-07-22 10:47 G 40564436.77 40564436.95 40564437.14 0.0089 0.0029

Neptune 106349-10-18 14:37 G 40564524.94 40564525.11 40564525.29 0.0089 0.0040

Neptune 106350-01-14 17:59 G 40564613.11 40564613.25 40564613.43 0.0089 0.0051

Neptune 106350-04-12 22:04 G 40564701.28   40564701.42   40564701.57 0.0089 0.0061

Neptune 106350-07-10 01:25 G 40564789.46   40564789.56   40564789.70 0.0089 0.0072

Neptune 106350-10-06 05:30 G 40564877.66   40564877.73   40564877.82 0.0089 0.0082

Jupiter 106352-03-12 09:06 G 40565400.80   40565400.88   40565400.96 0.0510 0.0454

Jupiter 106352-06-10 21:49 G 40565491.33   40565491.41   40565491.48 0.0513 0.0467

Venus   106352-07-26 08:08 G 40565536.75   40565536.84   40565536.93 0.3666 0.1788

Saturn   106353-10-11 03:49 G 40565978.54   40565978.66   40565978.77 0.0298 0.0127

Saturn   106354-01-07 16:04 G 40566067.04   40566067.17   40566067.30 0.0297 0.0050

Venus   106354-02-13 23:16 G 40566104.46   40566104.47   40566104.49 0.3715 0.3694

Saturn   106354-04-06 04:04 G 40566155.59   40566155.67   40566155.76 0.0297 0.0225

Mars   106354-10-01 13:54 G 40566333.97   40566334.08   40566334.19 0.1687 0.0587

Jupiter 106357-11-13 17:59 G 40567473.13   40567473.25   40567473.37 0.0516 0.0157

Venus   106358-02-08 23:44 G 40567560.38   40567560.49   40567560.59 0.3662 0.0095

Jupiter 106358-02-10 22:18 G 40567562.38   40567562.43   40567562.49 0.0513 0.0461

Earth   106359-04-27 12:28 G 40568002.93   40568003.02   40568003.11 0.2653 0.1482

Moon   106359-04-27 12:56 G 40568002.95   40568003.04   40568003.13 0.2649 0.1415 *

Venus   106363-08-25 15:06 G 40569584.04   40569584.13   40569584.22 0.3659 0.1659

Mars   106364-02-22 00:42 G 40569764.45   40569764.53   40569764.61 0.1695 0.1200

Jupiter 106364-03-29 17:59 G 40569801.08   40569801.25   40569801.41 0.0512 0.0232

Mars   106365-03-26 03:35 G 40570162.50   40570162.65   40570162.80 0.1866 0.0780

Mars   106366-01-27 04:32 G 40570469.62   40570469.69   40570469.76 0.1668 0.1260

Saturn   106369-01-22 17:44 G 40571561.09   40571561.24   40571561.40 0.0264 0.0154

Venus   106369-03-10 06:28 G 40571607.73   40571607.77   40571607.81 0.3656 0.3342

Saturn   106369-04-21 14:52 G 40571649.93   40571650.12   40571650.31 0.0264 0.0029

Saturn   106369-07-19 12:13 G 40571738.90   40571739.01   40571739.13 0.0265 0.0213

Jupiter 106369-09-01 22:04 G 40571783.32   40571783.42   40571783.52 0.0517 0.0322

Jupiter 106369-11-30 02:52 G 40571872.52   40571872.62   40571872.72 0.0514 0.0304

Moon   106372-04-29 05:30 G 40572753.62   40572753.73   40572753.84 0.2645 0.0100

Earth   106372-04-29 05:30 G 40572753.63   40572753.73   40572753.84 0.2651 0.0123 *

Uranus   106374-02-10 14:37 G 40573406.06   40573406.11   40573406.19 0.0138 0.0129

Uranus 106374-05-09 22:04 G 40573494.31 40573494.42 40573494.57 0.0138 0.0102

Uranus 106374-08-06 05:59 G 40573582.59 40573582.75 40573582.92 0.0138 0.0074

Mars 106374-08-15 20:37 G 40573592.22 40573592.36 40573592.51 0.1857 0.0909

Uranus 106374-11-02 13:40 G 40573670.89 40573671.07 40573671.25 0.0138 0.0046

Uranus 106375-01-29 21:20 G 40573759.20 40573759.39 40573759.58 0.0138 0.0019

Uranus 106375-04-28 05:01 G 40573847.52 40573847.71 40573847.90 0.0138 0.0009

Mars 106375-06-19 15:35 G 40573900.05 40573900.15 40573900.26 0.1674 0.0683

Uranus 106375-07-25 12:28 G 40573935.84 40573936.02 40573936.21 0.0137 0.0037

Uranus 106375-10-21 20:08 G 40574024.18 40574024.34 40574024.52 0.0137 0.0064

Jupiter 106376-01-16 13:54 G 40574110.90 40574111.08 40574111.27 0.0511 0.0010

Uranus 106376-01-18 03:49 G 40574112.53 40574112.66 40574112.81 0.0137 0.0092

Uranus 106376-04-15 11:30 G 40574200.90 40574200.98 40574201.08 0.0137 0.0119

Jupiter 106381-06-21 02:37 G 40576093.56 40576093.61 40576093.66 0.0517 0.0477

Jupiter 106381-09-18 07:40 G 40576182.69 40576182.82 40576182.94 0.0515 0.0154

Moon 106381-11-01 03:06 G 40576226.47 40576226.63 40576226.79 0.2688 0.0125

Earth 106381-11-01 03:35 G 40576226.49 40576226.65 40576226.81 0.2681 0.0091 *

Saturn 106383-02-28 06:42 G 40576710.67 40576710.78 40576710.89 0.0298 0.0166

Saturn 106383-05-27 18:56 G 40576799.16 40576799.29 40576799.42 0.0297 0.0012

Saturn 106383-08-24 07:11 G 40576887.70 40576887.80 40576887.90 0.0297 0.0186

Mars 106384-11-09 02:52 G 40577330.50 40577330.62 40577330.73 0.1680 0.0098

Moon 106385-05-01 22:04 G 40577504.33 40577504.42 40577504.50 0.2650 0.1486

Earth 106385-05-01 22:32 G 40577504.36 40577504.44 40577504.53 0.2650 0.1630 *

Jupiter 106387-11-04 09:20 G 40578420.73 40578420.89 40578421.05 0.0511 0.0246

Moon 106392-04-25 00:28 G 40580054.50 40580054.52 40580054.54 0.2649 0.2589

Jupiter 106393-07-07 12:28 G 40580492.89 40580493.02 40580493.15 0.0515 0.0007

Mars 106394-04-01 13:54 G 40580760.97 40580761.08 40580761.19 0.1687 0.0514

Saturn 106398-06-11 16:47 G 40582293.09 40582293.20 40582293.33 0.0263 0.0204

Saturn 106398-09-08 13:54 G 40582381.90 40582382.08 40582382.28 0.0263 0.0025

Saturn 106398-12-06 11:01 G 40582470.82 40582470.96 40582471.12 0.0264 0.0160

Jupiter 106399-08-23 06:28 G 40582730.70 40582730.77 40582730.85 0.0510 0.0464

Jupiter 106399-11-21 18:56 G 40582821.21 40582821.29 40582821.38 0.0513 0.0457

Venus 106403-08-17 14:08 G 40584186.03 40584186.09 40584186.14 0.3668 0.2963

Mars 106403-08-23 00:42 G 40584191.45 40584191.53 40584191.62 0.1694 0.1123

Mars 106404-09-24 04:32 G 40584589.54 40584589.69 40584589.83 0.1867 0.0944

Venus 106405-03-06 15:20 G 40584752.98 40584753.14 40584753.29 0.3712 0.0629

Jupiter 106405-04-25 16:47 G 40584803.08 40584803.20 40584803.33 0.0516 0.0152

Moon 106405-04-27 16:47 G 40584805.11 40584805.20 40584805.30 0.2647 0.1282

Earth 106405-04-27 17:16 G 40584805.12 40584805.22 40584805.32 0.2653 0.1159 *

Jupiter 106405-07-23 21:20 G 40584892.34 40584892.39 40584892.44 0.0513 0.0465

Mars 106405-07-28 04:32 G 40584896.62 40584896.69 40584896.76 0.1668 0.1336

Venus 106409-03-02 05:44 G 40586209.64 40586209.74 40586209.83 0.3665 0.1204

Jupiter 106411-09-09 15:49 G 40587131.00 40587131.16 40587131.33 0.0512 0.0233

Saturn 106412-07-17 07:40 G 40587442.74 40587442.82 40587442.90 0.0298 0.0232

Saturn 106412-10-13 20:08 G 40587531.21 40587531.34 40587531.47 0.0298 0.0053

Saturn 106413-01-10 08:23 G 40587619.73 40587619.85 40587619.97 0.0297 0.0123

Mars 106414-02-13 21:49 G 40588019.25 40588019.41 40588019.56 0.1857 0.0735

Venus 106414-09-15 21:06 G 40588233.28 40588233.38 40588233.48 0.3661 0.0533

Mars 106414-12-18 15:35 G 40588327.05 40588327.15 40588327.25 0.1674 0.0756

Jupiter 106417-02-11 21:06 G 40589113.28 40589113.38 40589113.48 0.0516 0.0311

Uranus 106417-05-10 14:23 G 40589201.05 40589201.10 40589201.18 0.0140 0.0121

Jupiter 106417-05-12 01:54 G 40589202.48 40589202.58 40589202.68 0.0514 0.0312

Uranus 106417-08-06 18:13 G 40589289.17 40589289.26 40589289.35 0.0140 0.0100

Uranus 106417-11-02 21:35 G 40589377.29 40589377.40 40589377.51 0.0140 0.0080

Uranus 106418-01-30 00:56 G 40589465.42 40589465.54 40589465.66 0.0140 0.0061

Uranus 106418-04-28 04:32 G 40589553.56 40589553.69 40589553.81 0.0140 0.0040

Moon 106418-04-30 09:35 G 40589555.80 40589555.90 40589556.01 0.2652 0.0349

Earth 106418-04-30 10:18 G 40589555.82 40589555.93 40589556.04 0.2651 0.0397 *

Uranus 106418-07-25 07:54 G 40589641.70 40589641.83 40589641.96 0.0140 0.0020

Uranus 106418-10-21 11:16 G 40589729.84 40589729.97 40589730.10 0.0140 0.0002

Uranus 106419-01-17 14:37 G 40589817.98 40589818.11 40589818.24 0.0140 0.0020

Uranus 106419-04-15 17:59 G 40589906.13 40589906.25 40589906.38 0.0140 0.0040

Uranus 106419-07-12 21:35 G 40589994.28 40589994.40 40589994.52 0.0141 0.0060

Uranus 106419-10-09 00:56 G 40590082.43 40590082.54 40590082.65 0.0141 0.0080

Uranus 106420-01-05 04:18 G 40590170.59 40590170.68 40590170.77 0.0141 0.0100

Venus 106420-03-31 12:28 G 40590256.94 40590257.02 40590257.10 0.3658 0.2240

Uranus 106420-04-02 07:40 G 40590258.76 40590258.82 40590258.89 0.0141 0.0120

Uranus 106420-06-29 10:47 G 40590346.95 40590346.95 40590346.98 0.0141 0.0140

Jupiter 106423-06-28 12:28 G 40591440.83 40591441.02 40591441.20 0.0511 0.0009

Mars 106424-05-10 02:37 G 40591757.50 40591757.61 40591757.73 0.1681 0.0170

Neptune 106427-06-23 01:25 G 40592896.52 40592896.56 40592896.62 0.0088 0.0082

Neptune 106427-09-19 02:52 G 40592984.56 40592984.62 40592984.69 0.0088 0.0075

Saturn 106427-10-29 16:04 G 40593025.14 40593025.17 40593025.23 0.0263 0.0255

Earth 106427-11-02 10:32 G 40593028.78 40593028.94 40593029.09 0.2681 0.0839

Moon 106427-11-02 12:13 G 40593028.86 40593029.01 40593029.15 0.2684 0.1168 *

Neptune 106427-12-16 04:18 G 40593072.60 40593072.68 40593072.76 0.0088 0.0068

Saturn 106428-01-26 13:25 G 40593113.88 40593114.06 40593114.24 0.0264 0.0074

Neptune 106428-03-13 05:16 G 40593160.64 40593160.72 40593160.83 0.0088 0.0062

Saturn 106428-04-24 10:32 G 40593202.77 40593202.94 40593203.12 0.0264 0.0109

Neptune 106428-06-09 06:42 G 40593248.68 40593248.78 40593248.89 0.0088 0.0055

Neptune 106428-09-05 07:54 G 40593336.73 40593336.83 40593336.95 0.0088 0.0048

Jupiter 106428-12-01 01:11 G 40593423.50 40593423.55 40593423.60 0.0517 0.0478

Neptune 106428-12-02 09:20 G 40593424.78 40593424.89 40593425.01 0.0088 0.0041

Jupiter 106429-02-28 06:13 G 40593512.63 40593512.76 40593512.88 0.0515 0.0154

Neptune 106429-02-28 10:47 G 40593512.83 40593512.95 40593513.07 0.0088 0.0034 *

Neptune 106429-05-27 11:59 G 40593600.88 40593601.00 40593601.13 0.0088 0.0027

Neptune 106429-08-23 13:11 G 40593688.93 40593689.05 40593689.19 0.0088 0.0021

Neptune 106429-11-19 14:37 G 40593776.98 40593777.11 40593777.24 0.0088 0.0014

Neptune 106430-02-15 15:49 G 40593865.03 40593865.16 40593865.30 0.0088 0.0007

Neptune 106430-05-14 17:16 G 40593953.08 40593953.22 40593953.35 0.0088 0.0003

Neptune 106430-08-10 18:28 G 40594041.14 40594041.27 40594041.40 0.0088 0.0006

Neptune 106430-11-06 19:40 G 40594129.19 40594129.32 40594129.45 0.0088 0.0013

Neptune 106431-02-02 20:52 G 40594217.25 40594217.37 40594217.50 0.0088 0.0020

Neptune 106431-05-01 22:04 G 40594305.30 40594305.42 40594305.55 0.0088 0.0027

Moon 106431-05-03 03:06 G 40594306.55 40594306.63 40594306.70 0.2656 0.1859

Earth 106431-05-03 03:20 G 40594306.57 40594306.64 40594306.71 0.2650 0.1946 *

Neptune 106431-07-28 23:30 G 40594393.36 40594393.48 40594393.60 0.0088 0.0033

Neptune 106431-10-25 00:42 G 40594481.42 40594481.53 40594481.65 0.0088 0.0040

Neptune 106432-01-21 01:54 G 40594569.48 40594569.58 40594569.70 0.0088 0.0047

Neptune 106432-04-18 03:06 G 40594657.54 40594657.63 40594657.74 0.0088 0.0054

Neptune 106432-07-15 04:32 G 40594745.60 40594745.69 40594745.79 0.0088 0.0060

Neptune 106432-10-11 05:44 G 40594833.66 40594833.74 40594833.83 0.0088 0.0067

Neptune 106433-01-07 07:11 G 40594921.73 40594921.80 40594921.87 0.0088 0.0073

Neptune 106433-04-05 08:08 G 40595009.80 40595009.84 40595009.90 0.0088 0.0080

Neptune 106433-07-02 09:20 G 40595097.89 40595097.89 40595097.92 0.0088 0.0087

Mars 106433-09-30 13:54 G 40595187.97 40595188.08 40595188.19 0.1687 0.0434

Jupiter 106435-04-16 08:37 G 40595750.70 40595750.86 40595751.03 0.0511 0.0226

Moon 106438-04-26 04:18 G 40596856.65 40596856.68 40596856.72 0.2650 0.2483

Earth 106438-04-26 04:47 G 40596856.66 40596856.70 40596856.74 0.2654 0.2399 *

Jupiter 106440-12-17 10:47 G 40597822.83 40597822.95 40597823.08 0.0515 0.0016

Saturn 106441-12-04 10:18 G 40598174.88 40598174.93 40598174.98 0.0298 0.0275

Saturn 106442-03-02 22:47 G 40598263.33 40598263.45 40598263.57 0.0298 0.0096

Saturn 106442-05-30 11:01 G 40598351.83 40598351.96 40598352.08 0.0297 0.0081

Saturn 106442-08-26 23:16 G 40598440.40 40598440.47 40598440.53 0.0297 0.0255

Mars 106443-02-21 00:42 G 40598618.44 40598618.53 40598618.62 0.1694 0.1048

Mars 106444-03-25 05:16 G 40599016.58 40599016.72 40599016.86 0.1867 0.1095

Mars 106445-01-26 04:32 G 40599323.63 40599323.69 40599323.75 0.1667 0.1415

Jupiter 106447-02-02 04:04 G 40600060.60 40600060.67 40600060.74 0.0510 0.0468

Jupiter 106447-05-03 16:32 G 40600151.11 40600151.19 40600151.28 0.0513 0.0451

Moon 106451-04-28 21:20 G 40601607.29 40601607.39 40601607.49 0.2653 0.0919

Earth 106451-04-28 22:04 G 40601607.31 40601607.42 40601607.52 0.2652 0.0842 *

Mars 106452-07-13 11:30 G 40602048.97 40602048.98 40602049.00 0.1701 0.1674

Jupiter 106452-10-05 15:49 G 40602133.03 40602133.16 40602133.28 0.0516 0.0144

Jupiter 106453-01-02 20:08 G 40602222.30 40602222.34 40602222.39 0.0513 0.0473

Mars 106453-08-14 22:47 G 40602446.29 40602446.45 40602446.61 0.1857 0.0565

Mars 106454-06-18 15:35 G 40602754.05 40602754.15 40602754.25 0.1674 0.0831

Saturn 106457-06-14 12:13 G 40603845.85 40603846.01 40603846.18 0.0263 0.0126

Saturn 106457-09-11 09:20 G 40603934.71 40603934.89 40603935.08 0.0263 0.0056

Saturn 106457-12-09 06:28 G 40604023.70 40604023.77 40604023.86 0.0264 0.0239

Uranus 106458-03-02 21:20 G 40604107.32 40604107.39 40604107.48 0.0138 0.0124

Uranus 106458-05-30 04:47 G 40604195.58 40604195.70 40604195.85 0.0138 0.0097

Uranus 106458-08-26 12:42 G 40604283.86 40604284.03 40604284.20 0.0138 0.0069

Uranus 106458-11-22 20:08 G 40604372.16 40604372.34 40604372.53 0.0138 0.0042

Uranus 106459-02-19 03:49 G 40604460.47 40604460.66 40604460.86 0.0138 0.0014

Jupiter 106459-02-19 13:25 G 40604460.90 40604461.06 40604461.23 0.0512 0.0227

Uranus 106459-05-18 11:30 G 40604548.79 40604548.98 40604549.17 0.0138 0.0014

Uranus 106459-08-14 19:11 G 40604637.12 40604637.30 40604637.49 0.0138 0.0041

Uranus 106459-11-11 02:52 G 40604725.46 40604725.62 40604725.79 0.0137 0.0069

Uranus 106460-02-07 10:18 G 40604813.81 40604813.93 40604814.08 0.0137 0.0097

Venus 106460-03-23 11:30 G 40604858.90 40604858.98 40604859.06 0.3667 0.2355

Uranus 106460-05-05 17:59 G 40604902.18 40604902.25 40604902.34 0.0137 0.0124

Earth 106460-10-30 08:08 G 40605079.76 40605079.84 40605079.92 0.2680 0.2325

Moon 106460-10-30 09:49 G 40605079.80 40605079.91 40605080.02 0.2681 0.1957 *

Venus 106461-10-11 17:44 G 40605426.09 40605426.24 40605426.39 0.3713 0.1297

Mars 106463-11-09 02:37 G 40606184.50 40606184.61 40606184.73 0.1680 0.0243

Moon 106464-04-30 14:52 G 40606358.02 40606358.12 40606358.23 0.2658 0.0684

Earth 106464-04-30 15:06 G 40606358.02 40606358.13 40606358.23 0.2651 0.0725 *

Jupiter 106464-07-24 20:08 G 40606443.24 40606443.34 40606443.44 0.0516 0.0301

Jupiter 106464-10-22 00:42 G 40606532.44 40606532.53 40606532.63 0.0513 0.0321

Venus 106465-10-07 03:06 G 40606882.53 40606882.63 40606882.73 0.3664 0.0603

Jupiter 106470-12-08 10:32 G 40608770.76 40608770.94 40608771.12 0.0512 0.0007

Venus 106471-04-22 18:28 G 40608906.18 40608906.27 40608906.37 0.3661 0.1122

Saturn 106471-07-20 23:16 G 40608995.37 40608995.47 40608995.58 0.0298 0.0169

Saturn 106471-10-17 11:44 G 40609083.86 40609083.99 40609084.12 0.0298 0.0011

Saturn 106472-01-13 23:59 G 40609172.40 40609172.50 40609172.60 0.0297 0.0185

Mars 106473-03-31 13:40 G 40609614.96 40609615.07 40609615.19 0.1687 0.0367

Earth 106473-11-02 17:30 G 40609831.10 40609831.23 40609831.36 0.2682 0.1589

Moon 106473-11-02 18:28 G 40609831.14 40609831.27 40609831.40 0.2676 0.1643 *

Jupiter 106476-05-13 00:28 G 40610753.46 40610753.52 40610753.57 0.0517 0.0462

Jupiter 106476-08-10 05:16 G 40610842.60 40610842.72 40610842.84 0.0514 0.0167

Venus 106476-11-05 10:04 G 40610929.85 40610929.92 40610929.98 0.3658 0.2809

Earth 106477-05-03 08:08 G 40611108.78 40611108.84 40611108.89 0.2649 0.2264

Moon 106477-05-03 08:37 G 40611108.82 40611108.86 40611108.90 0.2652 0.2395 *

Mars 106482-08-22 00:42 G 40613045.44 40613045.53 40613045.62 0.1694 0.0973

Jupiter 106482-09-26 07:25 G 40613080.64 40613080.81 40613080.98 0.0511 0.0215

Mars 106483-09-24 06:28 G 40613443.64 40613443.77 40613443.89 0.1867 0.1279

Moon 106484-04-26 08:52 G 40613658.82 40613658.87 40613658.93 0.2657 0.2248

Earth 106484-04-26 09:35 G 40613658.83 40613658.90 40613658.97 0.2653 0.2075 *

Mars 106484-07-27 04:18 G 40613750.64 40613750.68 40613750.73 0.1667 0.1488

Pluto 106484-12-11 02:37 G 40613887.57 40613887.61 40613887.66 0.0060 0.0058

Pluto 106485-03-09 03:35 G 40613975.56 40613975.65 40613975.78 0.0060 0.0049

Pluto 106485-06-05 05:01 G 40614063.58 40614063.71 40614063.87 0.0060 0.0039

Pluto 106485-09-01 06:42 G 40614151.61 40614151.78 40614151.95 0.0060 0.0029

Pluto 106485-11-28 07:40 G 40614239.65 40614239.82 40614240.02 0.0060 0.0020

Pluto 106486-02-24 09:06 G 40614327.70 40614327.88 40614328.08 0.0060 0.0010

Pluto 106486-05-23 10:47 G 40614415.75 40614415.95 40614416.14 0.0060 0.0001

Pluto 106486-08-19 11:59 G 40614503.81 40614504.00 40614504.19 0.0060 0.0010

Saturn 106486-11-01 11:01 G 40614577.83 40614577.96 40614578.10 0.0263 0.0182

Pluto 106486-11-15 12:56 G 40614591.87 40614592.04 40614592.24 0.0060 0.0020

Saturn 106487-01-29 08:08 G 40614666.65 40614666.84 40614667.03 0.0264 0.0002

Pluto 106487-02-11 14:37 G 40614679.94 40614680.11 40614680.28 0.0060 0.0029

Saturn 106487-04-28 05:30 G 40614755.59 40614755.73 40614755.86 0.0264 0.0182

Pluto 106487-05-10 15:49 G 40614768.02 40614768.16 40614768.32 0.0060 0.0039

Pluto 106487-08-06 17:01 G 40614856.12 40614856.21 40614856.34 0.0060 0.0049

Pluto 106487-11-02 18:13 G 40614944.25 40614944.26 40614944.31 0.0060 0.0060

Jupiter 106488-05-29 09:35 G 40615152.77 40615152.90 40615153.03 0.0515 0.0008

Mars 106492-01-12 11:44 G 40616475.95 40616475.99 40616476.02 0.1701 0.1594

Mars 106493-02-12 23:30 G 40616873.32 40616873.48 40616873.65 0.1857 0.0414

Mars 106493-12-17 15:35 G 40617181.05 40617181.15 40617181.25 0.1674 0.0908

Jupiter 106494-07-15 03:49 G 40617390.58 40617390.66 40617390.76 0.0510 0.0440

Jupiter 106494-10-13 16:18 G 40617481.12 40617481.18 40617481.25 0.0513 0.0478

Moon 106497-04-29 02:52 G 40618409.51 40618409.62 40618409.72 0.2658 0.0438

Earth 106497-04-29 02:37 G 40618409.51 40618409.61 40618409.72 0.2652 0.0517 *

Jupiter 106500-03-18 14:23 G 40619462.98 40619463.10 40619463.22 0.0516 0.0143

Jupiter 106500-06-15 18:56 G 40619552.24 40619552.29 40619552.33 0.0513 0.0474

Saturn 106500-12-08 01:40 G 40619727.48 40619727.57 40619727.66 0.0298 0.0216

Uranus 106501-03-04 18:42 G 40619814.25 40619814.28 40619814.32 0.0140 0.0134

Saturn 106501-03-06 13:54 G 40619815.96 40619816.08 40619816.21 0.0298 0.0039

Uranus 106501-05-31 22:04 G 40619902.36 40619902.42 40619902.51 0.0140 0.0114

Saturn 106501-06-03 02:08 G 40619904.48 40619904.59 40619904.71 0.0297 0.0139

Uranus 106501-08-28 01:40 G 40619990.48 40619990.57 40619990.67 0.0140 0.0094

Uranus 106501-11-24 05:01 G 40620078.61 40620078.71 40620078.83 0.0140 0.0074

Uranus 106502-02-20 08:37 G 40620166.74 40620166.86 40620166.99 0.0140 0.0054

Uranus 106502-05-19 11:59 G 40620254.88 40620255.00 40620255.13 0.0140 0.0034

Uranus 106502-08-15 15:35 G 40620343.02 40620343.15 40620343.28 0.0140 0.0014

Uranus 106502-11-11 18:56 G 40620431.16 40620431.29 40620431.42 0.0140 0.0006

Uranus 106503-02-07 22:18 G 40620519.30 40620519.43 40620519.56 0.0140 0.0026

Uranus 106503-05-07 01:40 G 40620607.45 40620607.57 40620607.70 0.0140 0.0046

Mars 106503-05-11 02:37 G 40620611.50 40620611.61 40620611.73 0.1680 0.0320

Uranus 106503-08-03 05:01 G 40620695.60 40620695.71 40620695.83 0.0141 0.0066

Uranus 106503-10-30 08:23 G 40620783.75 40620783.85 40620783.96 0.0141 0.0086

Uranus 106504-01-26 11:44 G 40620871.91 40620871.99 40620872.08 0.0141 0.0106

Uranus 106504-04-23 15:20 G 40620960.08 40620960.14 40620960.19 0.0141 0.0126

Jupiter 106506-08-02 11:30 G 40621790.81 40621790.98 40621791.14 0.0512 0.0227

Earth 106506-11-01 15:06 G 40621882.00 40621882.13 40621882.26 0.2680 0.1581

Moon 106506-11-01 15:20 G 40621882.00 40621882.14 40621882.28 0.2673 0.1448 *

Earth 106510-05-02 19:40 G 40623160.22 40623160.32 40623160.42 0.2651 0.1042

Moon 106510-05-02 20:23 G 40623160.25 40623160.35 40623160.45 0.2653 0.1098 *

Venus 106511-04-15 17:16 G 40623508.20 40623508.22 40623508.25 0.3669 0.3530

Neptune 106511-08-23 16:04 G 40623638.10 40623638.17 40623638.25 0.0089 0.0082

Neptune 106511-11-19 19:40 G 40623726.21 40623726.32 40623726.44 0.0089 0.0072

Jupiter 106512-01-05 19:11 G 40623773.20 40623773.30 40623773.41 0.0517 0.0290

Neptune 106512-02-15 23:16 G 40623814.34 40623814.47 40623814.62 0.0089 0.0061

Jupiter 106512-04-03 23:59 G 40623862.40 40623862.50 40623862.60 0.0514 0.0333

Neptune 106512-05-14 02:52 G 40623902.47 40623902.62 40623902.79 0.0089 0.0051

Neptune 106512-08-10 06:42 G 40623990.61 40623990.78 40623990.96 0.0089 0.0041

Mars 106512-09-30 13:40 G 40624041.96 40624042.07 40624042.19 0.1687 0.0287

Venus 106512-11-02 10:04 G 40624074.82 40624074.92 40624075.01 0.3709 0.2882

Neptune 106512-11-06 10:18 G 40624078.76 40624078.93 40624079.12 0.0089 0.0031

Neptune 106513-02-02 14:08 G 40624166.90 40624167.09 40624167.29 0.0089 0.0020

Neptune 106513-05-01 17:59 G 40624255.06 40624255.25 40624255.44 0.0089 0.0010

Neptune 106513-07-28 21:35 G 40624343.21 40624343.40 40624343.60 0.0089 0.0002

Neptune 106513-10-25 01:25 G 40624431.36 40624431.56 40624431.75 0.0089 0.0011

Neptune 106514-01-21 05:01 G 40624519.52 40624519.71 40624519.90 0.0089 0.0022

Neptune 106514-04-19 08:37 G 40624607.69 40624607.86 40624608.05 0.0089 0.0033

Neptune 106514-07-16 12:28 G 40624695.85 40624696.02 40624696.20 0.0089 0.0043

Neptune 106514-10-12 16:04 G 40624784.02 40624784.17 40624784.34 0.0089 0.0053

Neptune 106515-01-08 19:54 G 40624872.20 40624872.33 40624872.47 0.0089 0.0064

Neptune 106515-04-06 23:30 G 40624960.39 40624960.48 40624960.60 0.0089 0.0075

Neptune 106515-07-04 03:20 G 40625048.59 40625048.64 40625048.71 0.0089 0.0085

Saturn 106516-03-21 10:04 G 40625309.84 40625309.92 40625310.00 0.0263 0.0234

Saturn 106516-06-18 06:56 G 40625398.61 40625398.79 40625398.98 0.0263 0.0055

Saturn 106516-09-15 04:04 G 40625487.51 40625487.67 40625487.84 0.0263 0.0127

Venus 106516-10-29 09:06 G 40625531.79 40625531.88 40625531.97 0.3666 0.1759

Venus 106518-05-19 20:23 G 40626099.27 40626099.35 40626099.42 0.3714 0.3238

Jupiter 106518-05-21 08:23 G 40626100.67 40626100.85 40626101.04 0.0512 0.0007

Moon 106519-11-04 23:16 G 40626633.37 40626633.47 40626633.57 0.2677 0.2111

Earth 106519-11-05 00:28 G 40626633.45 40626633.52 40626633.60 0.2682 0.2354 *

Mars 106522-02-21 00:42 G 40627472.43 40627472.53 40627472.63 0.1694 0.0899

Venus 106522-05-15 00:28 G 40627555.42 40627555.52 40627555.63 0.3663 0.0105

Mars 106523-03-26 07:25 G 40627870.70 40627870.81 40627870.91 0.1867 0.1452

Earth 106523-05-05 12:42 G 40627911.01 40627911.03 40627911.05 0.2649 0.2584

Jupiter 106523-10-24 23:44 G 40628083.43 40628083.49 40628083.55 0.0517 0.0447

Jupiter 106524-01-22 04:32 G 40628172.57 40628172.69 40628172.81 0.0514 0.0181

Mars 106524-01-27 04:18 G 40628177.65 40628177.68 40628177.72 0.1667 0.1563

Venus 106527-11-28 16:04 G 40629579.08 40629579.17 40629579.26 0.3660 0.1698

Jupiter 106530-03-09 05:44 G 40630410.57 40630410.74 40630410.91 0.0511 0.0209

Saturn 106530-04-27 01:54 G 40630459.56 40630459.58 40630459.60 0.0299 0.0293

Earth 106530-04-28 14:23 G 40630461.02 40630461.10 40630461.18 0.2653 0.1755

Moon 106530-04-28 14:37 G 40630461.03 40630461.11 40630461.19 0.2659 0.1704 *

Saturn 106530-07-24 14:23 G 40630547.98 40630548.10 40630548.22 0.0298 0.0113

Saturn 106530-10-21 02:37 G 40630636.49 40630636.61 40630636.74 0.0298 0.0065

Saturn 106531-01-17 14:52 G 40630725.05 40630725.12 40630725.20 0.0297 0.0240

Mars 106531-07-14 11:30 G 40630902.93 40630902.98 40630903.03 0.1701 0.1525

Mars 106532-08-15 00:28 G 40631300.35 40631300.52 40631300.69 0.1858 0.0249

Venus 106533-06-13 07:25 G 40631602.77 40631602.81 40631602.85 0.3657 0.3374

Mars 106533-06-18 15:35 G 40631608.05 40631608.15 40631608.24 0.1673 0.0982

Jupiter 106535-11-10 09:06 G 40632482.75 40632482.88 40632483.01 0.0515 0.0027

Jupiter 106541-12-26 02:52 G 40634720.52 40634720.62 40634720.72 0.0510 0.0426

Uranus 106542-03-24 04:32 G 40634808.60 40634808.69 40634808.79 0.0138 0.0117

Jupiter 106542-03-26 15:20 G 40634811.09 40634811.14 40634811.19 0.0513 0.0493

Uranus 106542-06-20 11:59 G 40634896.87 40634897.00 40634897.16 0.0138 0.0090

Uranus 106542-09-16 19:54 G 40634985.16 40634985.33 40634985.50 0.0138 0.0062

Mars 106542-11-09 02:37 G 40635038.50 40635038.61 40635038.72 0.1680 0.0390

Uranus 106542-12-14 03:20 G 40635073.46 40635073.64 40635073.83 0.0138 0.0035

Uranus 106543-03-12 11:01 G 40635161.77 40635161.96 40635162.15 0.0138 0.0007

Earth 106543-05-01 07:25 G 40635211.70 40635211.81 40635211.92 0.2652 0.0197

Moon 106543-05-01 08:08 G 40635211.73 40635211.84 40635211.94 0.2653 0.0129 *

Uranus 106543-06-08 18:42 G 40635250.09 40635250.28 40635250.47 0.0138 0.0021

Uranus 106543-09-05 02:08 G 40635338.42 40635338.59 40635338.78 0.0138 0.0048

Uranus 106543-12-02 09:49 G 40635426.76 40635426.91 40635427.08 0.0137 0.0076

Uranus 106544-02-28 17:30 G 40635515.11 40635515.23 40635515.36 0.0137 0.0104

Uranus 106544-05-27 00:56 G 40635603.50 40635603.54 40635603.61 0.0137 0.0132

Saturn 106545-11-05 05:16 G 40636130.55 40636130.72 40636130.89 0.0263 0.0115

Saturn 106546-02-02 02:23 G 40636219.41 40636219.60 40636219.78 0.0264 0.0067

Saturn 106546-05-01 23:30 G 40636308.43 40636308.48 40636308.54 0.0264 0.0250

Jupiter 106547-08-29 13:11 G 40636792.93 40636793.05 40636793.18 0.0516 0.0137

Jupiter 106547-11-26 17:44 G 40636882.20 40636882.24 40636882.28 0.0513 0.0481

Mars 106552-03-31 13:40 G 40638468.96 40638469.07 40638469.19 0.1687 0.0211

Moon 106552-11-01 20:23 G 40638684.20 40638684.35 40638684.50 0.2677 0.1180

Earth 106552-11-01 22:04 G 40638684.26 40638684.42 40638684.57 0.2680 0.0827 *

Jupiter 106554-01-12 11:30 G 40639120.83 40639120.98 40639121.14 0.0512 0.0261

Earth 106556-05-03 00:28 G 40639962.43 40639962.52 40639962.61 0.2650 0.1360

Moon 106556-05-03 00:42 G 40639962.44 40639962.53 40639962.62 0.2644 0.1422 *

Jupiter 106559-06-17 17:59 G 40641103.15 40641103.25 40641103.36 0.0517 0.0286

Jupiter 106559-09-14 22:47 G 40641192.35 40641192.45 40641192.54 0.0514 0.0337

Saturn 106559-12-11 16:18 G 40641280.07 40641280.18 40641280.29 0.0298 0.0166

Saturn 106560-03-09 04:32 G 40641368.57 40641368.69 40641368.82 0.0298 0.0016

Saturn 106560-06-05 16:47 G 40641457.11 40641457.20 40641457.30 0.0297 0.0188

Mars 106561-08-22 00:42 G 40641899.43 40641899.53 40641899.63 0.1693 0.0821

Mars 106562-09-24 07:54 G 40642297.75 40642297.83 40642297.92 0.1868 0.1594

Mars 106563-07-28 04:18 G 40642604.67 40642604.68 40642604.70 0.1667 0.1643

Jupiter 106565-10-31 06:42 G 40643430.60 40643430.78 40643430.96 0.0512 0.0011

Venus 106567-11-20 14:52 G 40644181.06 40644181.12 40644181.18 0.3668 0.2918

Venus 106569-06-09 12:28 G 40644747.87 40644748.02 40644748.17 0.3711 0.1012

Mars 106571-01-12 11:30 G 40645329.92 40645329.98 40645330.04 0.1701 0.1449

Jupiter 106571-04-05 22:47 G 40645413.39 40645413.45 40645413.52 0.0517 0.0434

Jupiter 106571-07-04 03:49 G 40645502.54 40645502.66 40645502.78 0.0514 0.0195

Mars 106572-02-14 01:40 G 40645727.40 40645727.57 40645727.74 0.1858 0.0068

Mars 106572-12-17 15:35 G 40646035.06 40646035.15 40646035.23 0.1673 0.1059

Venus 106573-06-05 06:28 G 40646204.67 40646204.77 40646204.87 0.3665 0.1157

Saturn 106575-03-25 03:49 G 40646862.53 40646862.66 40646862.82 0.0263 0.0169

Saturn 106575-06-22 01:11 G 40646951.36 40646951.55 40646951.74 0.0263 0.0012

Saturn 106575-09-18 22:04 G 40647040.30 40647040.42 40647040.56 0.0263 0.0194

Earth 106576-04-28 18:56 G 40647263.20 40647263.29 40647263.38 0.2653 0.1432

Moon 106576-04-28 19:40 G 40647263.23 40647263.32 40647263.42 0.2651 0.1249 *

Jupiter 106577-08-19 03:49 G 40647740.49 40647740.66 40647740.83 0.0511 0.0208

Venus 106578-12-19 22:04 G 40648228.32 40648228.42 40648228.52 0.3662 0.0579

Pluto 106580-06-07 05:16 G 40648763.69 40648763.72 40648763.76 0.0084 0.0081

Pluto 106580-09-03 06:13 G 40648851.68 40648851.76 40648851.86 0.0084 0.0062

Pluto 106580-11-30 07:40 G 40648939.71 40648939.82 40648939.94 0.0084 0.0043

Pluto 106581-02-26 08:52 G 40649027.74 40649027.87 40649028.00 0.0084 0.0025

Pluto 106581-05-25 10:04 G 40649115.79 40649115.92 40649116.05 0.0084 0.0006

Mars 106581-07-05 19:11 G 40649157.24 40649157.30 40649157.36 0.1848 0.1722

Pluto 106581-08-21 11:16 G 40649203.84 40649203.97 40649204.10 0.0084 0.0012

Pluto 106581-11-17 12:28 G 40649291.90 40649292.02 40649292.14 0.0084 0.0031

Pluto 106582-02-13 13:40 G 40649379.96 40649380.07 40649380.18 0.0083 0.0049

Mars 106582-05-10 02:37 G 40649465.50 40649465.61 40649465.72 0.1680 0.0467

Pluto 106582-05-12 14:37 G 40649468.04 40649468.11 40649468.20 0.0083 0.0067

Jupiter 106583-04-22 08:23 G 40649812.72 40649812.85 40649812.98 0.0515 0.0042

Venus 106584-07-04 13:25 G 40650251.98 40650252.06 40650252.14 0.3659 0.2267

Uranus 106585-03-25 02:23 G 40650515.55 40650515.60 40650515.66 0.0140 0.0127

Uranus 106585-06-21 05:44 G 40650603.67 40650603.74 40650603.84 0.0140 0.0107

Uranus 106585-09-17 09:20 G 40650691.79 40650691.89 40650692.00 0.0140 0.0087

Uranus 106585-12-14 12:42 G 40650779.92 40650780.03 40650780.16 0.0140 0.0067

Uranus 106586-03-12 16:18 G 40650868.06 40650868.18 40650868.31 0.0140 0.0047

Uranus 106586-06-08 19:40 G 40650956.20 40650956.32 40650956.46 0.0140 0.0027

Uranus 106586-09-04 23:16 G 40651044.34 40651044.47 40651044.60 0.0140 0.0007

Uranus 106586-12-02 02:37 G 40651132.48 40651132.61 40651132.74 0.0140 0.0013

Uranus 106587-02-28 05:59 G 40651220.62 40651220.75 40651220.88 0.0140 0.0033

Uranus 106587-05-27 09:20 G 40651308.77 40651308.89 40651309.02 0.0141 0.0053

Uranus 106587-08-23 12:42 G 40651396.92 40651397.03 40651397.15 0.0141 0.0073

Uranus 106587-11-19 16:04 G 40651485.08 40651485.17 40651485.27 0.0141 0.0093

Uranus 106588-02-15 19:25 G 40651573.24 40651573.31 40651573.39 0.0141 0.0113

Uranus 106588-05-13 22:47 G 40651661.42 40651661.45 40651661.50 0.0141 0.0133

Saturn 106589-04-29 16:18 G 40652012.11 40652012.18 40652012.26 0.0299 0.0245

Moon 106589-05-01 12:13 G 40652013.90 40652014.01 40652014.12 0.2645 0.0101

Earth 106589-05-01 11:59 G 40652013.90 40652014.00 40652014.11 0.2652 0.0171 *

Jupiter 106589-06-07 01:11 G 40652050.45 40652050.55 40652050.66 0.0510 0.0419

Saturn 106589-07-27 04:47 G 40652100.58 40652100.70 40652100.83 0.0298 0.0066

Jupiter 106589-09-05 13:40 G 40652141.04 40652141.07 40652141.11 0.0513 0.0503

Saturn 106589-10-23 17:16 G 40652189.10 40652189.22 40652189.34 0.0298 0.0112

Saturn 106590-01-20 05:16 G 40652277.69 40652277.72 40652277.75 0.0297 0.0287

Mars 106591-09-30 13:40 G 40652895.95 40652896.07 40652896.18 0.1687 0.0135

Neptune 106591-12-22 23:30 G 40652979.47 40652979.48 40652979.51 0.0088 0.0087

Neptune 106592-03-20 00:56 G 40653067.49 40653067.54 40653067.60 0.0088 0.0080

Neptune 106592-06-16 02:08 G 40653155.53 40653155.59 40653155.67 0.0088 0.0073

Neptune 106592-09-12 03:35 G 40653243.57 40653243.65 40653243.74 0.0088 0.0066

Neptune 106592-12-09 05:01 G 40653331.61 40653331.71 40653331.81 0.0088 0.0059

Neptune 106593-03-07 05:59 G 40653419.66 40653419.75 40653419.87 0.0088 0.0053

Neptune 106593-06-03 07:25 G 40653507.71 40653507.81 40653507.93 0.0088 0.0046

Neptune 106593-08-30 08:52 G 40653595.75 40653595.87 40653595.99 0.0088 0.0039

Neptune 106593-11-26 10:18 G 40653683.80 40653683.93 40653684.05 0.0088 0.0032

Neptune 106594-02-22 11:16 G 40653771.85 40653771.97 40653772.11 0.0088 0.0026

Neptune 106594-05-21 12:42 G 40653859.90 40653860.03 40653860.16 0.0088 0.0019

Neptune 106594-08-17 14:08 G 40653947.95 40653948.09 40653948.22 0.0088 0.0012

Neptune 106594-11-13 15:20 G 40654036.01 40654036.14 40654036.27 0.0088 0.0005

Jupiter 106595-02-08 12:56 G 40654122.91 40654123.04 40654123.16 0.0515 0.0114

Neptune 106595-02-09 16:32 G 40654124.06 40654124.19 40654124.33 0.0088 0.0003

Neptune 106595-05-08 17:59 G 40654212.12 40654212.25 40654212.38 0.0088 0.0009

Jupiter 106595-05-08 17:16 G 40654212.20 40654212.22 40654212.24 0.0513 0.0501 *

Neptune 106595-08-04 19:11 G 40654300.17 40654300.30 40654300.43 0.0088 0.0015

Neptune 106595-10-31 20:23 G 40654388.23 40654388.35 40654388.48 0.0088 0.0022

Neptune 106596-01-27 21:35 G 40654476.28 40654476.40 40654476.53 0.0088 0.0029

Neptune 106596-04-24 23:01 G 40654564.34 40654564.46 40654564.58 0.0088 0.0035

Neptune 106596-07-22 00:13 G 40654652.40 40654652.51 40654652.63 0.0088 0.0042

Neptune 106596-10-18 01:25 G 40654740.46 40654740.56 40654740.68 0.0088 0.0049

Neptune 106597-01-14 02:37 G 40654828.52 40654828.61 40654828.72 0.0088 0.0056

Neptune 106597-04-12 04:04 G 40654916.58 40654916.67 40654916.77 0.0088 0.0062

Neptune 106597-07-09 05:16 G 40655004.65 40655004.72 40655004.81 0.0088 0.0069

Neptune 106597-10-05 06:28 G 40655092.71 40655092.77 40655092.84 0.0088 0.0076

Neptune 106598-01-01 07:54 G 40655180.79 40655180.83 40655180.88 0.0088 0.0082

Moon 106598-11-03 04:04 G 40655486.51 40655486.67 40655486.83 0.2686 0.0316

Earth 106598-11-03 04:47 G 40655486.54 40655486.70 40655486.87 0.2681 0.0120 *

Mars 106601-02-21 00:28 G 40656326.42 40656326.52 40656326.63 0.1694 0.0751

Jupiter 106601-06-25 10:32 G 40656450.79 40656450.94 40656451.10 0.0512 0.0278

Mars 106602-03-26 09:06 G 40656724.84 40656724.88 40656724.93 0.1868 0.1787

Moon 106602-05-05 04:47 G 40656764.61 40656764.70 40656764.78 0.2646 0.1647

Earth 106602-05-05 05:16 G 40656764.64 40656764.72 40656764.80 0.2650 0.1686 *

Saturn 106604-08-12 01:40 G 40657594.49 40657594.57 40657594.67 0.0263 0.0232

Saturn 106604-11-08 22:47 G 40657683.26 40657683.45 40657683.64 0.0263 0.0052

Saturn 106605-02-05 19:54 G 40657772.17 40657772.33 40657772.50 0.0264 0.0130

Jupiter 106606-11-28 17:01 G 40658433.10 40658433.21 40658433.32 0.0516 0.0276

Jupiter 106607-02-25 21:49 G 40658522.31 40658522.41 40658522.50 0.0514 0.0347

Moon 106609-04-28 07:11 G 40659314.78 40659314.80 40659314.82 0.2650 0.2572

Mars 106610-07-14 11:30 G 40659756.92 40659756.98 40659757.05 0.1701 0.1369

Mars 106611-08-16 02:23 G 40660154.43 40660154.60 40660154.77 0.1858 0.0083

Mars 106612-06-18 15:20 G 40660462.06 40660462.14 40660462.23 0.1673 0.1135

Jupiter 106613-04-13 07:11 G 40660760.61 40660760.80 40660760.98 0.0512 0.0048

Jupiter 106618-09-16 21:35 G 40662743.34 40662743.40 40662743.48 0.0517 0.0428

Jupiter 106618-12-15 02:37 G 40662832.49 40662832.61 40662832.73 0.0514 0.0201

Saturn 106618-12-15 06:42 G 40662832.66 40662832.78 40662832.90 0.0298 0.0119 *

Saturn 106619-03-13 18:56 G 40662921.17 40662921.29 40662921.42 0.0298 0.0059

Saturn 106619-06-10 07:11 G 40663009.73 40663009.80 40663009.88 0.0297 0.0234

Mars 106621-01-04 20:08 G 40663584.25 40663584.34 40663584.43 0.1849 0.1560

Mars 106621-11-09 02:37 G 40663892.50 40663892.61 40663892.72 0.1680 0.0546

Moon 106622-04-30 23:44 G 40664065.39 40664065.49 40664065.59 0.2646 0.1115

Earth 106622-04-30 23:44 G 40664065.39 40664065.49 40664065.59 0.2653 0.1101 *

Venus 106624-06-27 12:13 G 40664853.94 40664854.01 40664854.09 0.3668 0.2323

Jupiter 106625-01-30 02:23 G 40665070.43 40665070.60 40665070.77 0.0511 0.0199

Venus 106626-01-15 14:52 G 40665420.96 40665421.12 40665421.27 0.3712 0.0867

Uranus 106626-01-16 04:04 G 40665421.67 40665421.67 40665421.68 0.0138 0.0138

Uranus 106626-04-14 11:16 G 40665509.88 40665509.97 40665510.10 0.0138 0.0111

Uranus 106626-07-11 19:11 G 40665598.15 40665598.30 40665598.46 0.0138 0.0083

Uranus 106626-10-08 02:37 G 40665686.44 40665686.61 40665686.79 0.0138 0.0056

Uranus 106627-01-04 10:18 G 40665774.75 40665774.93 40665775.12 0.0138 0.0029

Uranus 106627-04-02 17:59 G 40665863.06 40665863.25 40665863.45 0.0138 0.0003

Uranus 106627-06-30 01:40 G 40665951.38 40665951.57 40665951.76 0.0138 0.0027

Uranus 106627-09-26 09:06 G 40666039.71 40666039.88 40666040.07 0.0138 0.0055

Uranus 106627-12-23 16:47 G 40666128.05 40666128.20 40666128.36 0.0137 0.0082

Uranus 106628-03-21 00:28 G 40666216.41 40666216.52 40666216.64 0.0137 0.0110

Uranus 106628-06-17 08:08 G 40666304.84 40666304.84 40666304.86 0.0137 0.0137

Venus 106630-01-11 03:49 G 40666877.56 40666877.66 40666877.76 0.3665 0.0583

Jupiter 106630-10-03 07:40 G 40667142.69 40667142.82 40667142.95 0.0515 0.0058

Mars 106631-04-01 13:40 G 40667322.95 40667323.07 40667323.18 0.1686 0.0088

Saturn 106634-03-28 21:35 G 40668415.23 40668415.40 40668415.58 0.0263 0.0106

Saturn 106634-06-25 18:42 G 40668504.10 40668504.28 40668504.47 0.0263 0.0075

Saturn 106634-09-22 15:49 G 40668593.13 40668593.16 40668593.20 0.0263 0.0258

Moon 106635-05-03 16:04 G 40668816.07 40668816.17 40668816.28 0.2649 0.0379

Earth 106635-05-03 16:47 G 40668816.10 40668816.20 40668816.31 0.2651 0.0461 *

Venus 106635-07-27 19:25 G 40668901.21 40668901.31 40668901.41 0.3661 0.1147

Jupiter 106636-11-17 23:30 G 40669380.38 40669380.48 40669380.59 0.0510 0.0415

Jupiter 106637-02-16 11:59 G 40669470.97 40669471.00 40669471.03 0.0513 0.0504

Mars 106640-08-22 00:28 G 40670753.42 40670753.52 40670753.63 0.1693 0.0674

Venus 106641-02-09 10:47 G 40670924.89 40670924.95 40670925.01 0.3658 0.2825

Jupiter 106642-07-22 12:13 G 40671452.88 40671453.01 40671453.14 0.0516 0.0096

Earth 106644-11-04 11:44 G 40672288.84 40672288.99 40672289.15 0.2681 0.0654

Moon 106644-11-04 13:11 G 40672288.90 40672289.05 40672289.20 0.2686 0.0964 *

Saturn 106648-05-03 06:42 G 40673564.69 40673564.78 40673564.88 0.0299 0.0199

Moon 106648-05-05 09:35 G 40673566.83 40673566.90 40673566.97 0.2655 0.1916

Earth 106648-05-05 10:04 G 40673566.85 40673566.92 40673566.98 0.2650 0.2011 *

Saturn 106648-07-30 19:11 G 40673653.17 40673653.30 40673653.43 0.0298 0.0020

Saturn 106648-10-27 07:25 G 40673741.70 40673741.81 40673741.92 0.0298 0.0157

Jupiter 106648-12-05 09:06 G 40673780.73 40673780.88 40673781.04 0.0513 0.0286

Mars 106650-01-12 11:30 G 40674183.90 40674183.98 40674184.05 0.1701 0.1300

Mars 106651-02-14 03:20 G 40674581.48 40674581.64 40674581.81 0.1859 0.0259

Mars 106651-12-18 15:20 G 40674889.06 40674889.14 40674889.22 0.1673 0.1210

Jupiter 106654-05-10 16:47 G 40675763.09 40675763.20 40675763.31 0.0516 0.0252

Jupiter 106654-08-07 21:20 G 40675852.30 40675852.39 40675852.48 0.0513 0.0368

Moon 106655-04-29 11:16 G 40676116.91 40676116.97 40676117.02 0.2647 0.2315

Earth 106655-04-29 11:16 G 40676116.93 40676116.97 40676117.02 0.2654 0.2350 *

Mars 106660-07-05 21:06 G 40678011.27 40678011.38 40678011.49 0.1849 0.1393

Jupiter 106660-09-23 06:13 G 40678090.58 40678090.76 40678090.94 0.0512 0.0065

Mars 106661-05-10 02:23 G 40678319.50 40678319.60 40678319.71 0.1680 0.0618

Saturn 106663-08-15 19:11 G 40679147.16 40679147.30 40679147.45 0.0263 0.0171

Saturn 106663-11-12 16:18 G 40679235.99 40679236.18 40679236.37 0.0263 0.0010

Saturn 106664-02-09 13:11 G 40679324.93 40679325.05 40679325.19 0.0264 0.0193

Jupiter 106666-02-26 20:52 G 40680073.29 40680073.37 40680073.44 0.0517 0.0416

Jupiter 106666-05-27 01:40 G 40680162.46 40680162.57 40680162.69 0.0514 0.0212

Moon 106668-05-01 03:49 G 40680867.56 40680867.66 40680867.76 0.2653 0.0957

Earth 106668-05-01 04:32 G 40680867.58 40680867.69 40680867.79 0.2652 0.0779 *

Uranus 106669-04-15 10:04 G 40681216.85 40681216.92 40681216.99 0.0140 0.0120

Uranus 106669-07-12 13:25 G 40681304.97 40681305.06 40681305.16 0.0140 0.0101

Uranus 106669-10-08 17:01 G 40681393.10 40681393.21 40681393.32 0.0140 0.0080

Uranus 106670-01-04 20:23 G 40681481.23 40681481.35 40681481.47 0.0140 0.0060

Uranus 106670-04-02 23:44 G 40681569.37 40681569.49 40681569.62 0.0140 0.0041

Uranus 106670-06-30 03:20 G 40681657.51 40681657.64 40681657.77 0.0140 0.0021

Uranus 106670-09-26 06:42 G 40681745.65 40681745.78 40681745.91 0.0140 0.0001

Mars 106670-09-30 13:40 G 40681749.95 40681750.07 40681750.18 0.1686 0.0035

Uranus 106670-12-23 10:04 G 40681833.79 40681833.92 40681834.05 0.0140 0.0020

Uranus 106671-03-21 13:25 G 40681921.94 40681922.06 40681922.19 0.0141 0.0040

Uranus 106671-06-17 16:47 G 40682010.09 40682010.20 40682010.33 0.0141 0.0060

Uranus 106671-09-13 20:08 G 40682098.24 40682098.34 40682098.46 0.0141 0.0080

Uranus 106671-12-10 23:44 G 40682186.40 40682186.49 40682186.58 0.0141 0.0099

Uranus 106672-03-08 03:06 G 40682274.56 40682274.63 40682274.70 0.0141 0.0119

Uranus 106672-06-04 06:13 G 40682362.75 40682362.76 40682362.79 0.0141 0.0139

Jupiter 106672-07-12 02:52 G 40682400.44 40682400.62 40682400.79 0.0511 0.0161

Venus 106675-07-19 18:13 G 40683503.23 40683503.26 40683503.29 0.3670 0.3494

Neptune 106676-02-22 10:18 G 40683720.92 40683720.93 40683720.98 0.0089 0.0088

Neptune 106676-05-20 14:23 G 40683809.01 40683809.10 40683809.20 0.0089 0.0078

Neptune 106676-08-16 17:44 G 40683897.13 40683897.24 40683897.38 0.0089 0.0068

Neptune 106676-11-12 21:20 G 40683985.26 40683985.39 40683985.56 0.0089 0.0058

Venus 106677-02-05 07:11 G 40684069.73 40684069.80 40684069.87 0.3708 0.3260

Neptune 106677-02-09 01:25 G 40684073.40 40684073.56 40684073.73 0.0089 0.0047

Neptune 106677-05-08 05:01 G 40684161.54 40684161.71 40684161.89 0.0089 0.0037

Neptune 106677-08-04 08:37 G 40684249.68 40684249.86 40684250.05 0.0089 0.0026

Saturn 106677-09-20 08:23 G 40684296.79 40684296.85 40684296.92 0.0298 0.0255

Neptune 106677-10-31 12:28 G 40684337.83 40684338.02 40684338.21 0.0089 0.0016

Earth 106677-11-02 09:35 G 40684339.84 40684339.90 40684339.95 0.2680 0.2492

Moon 106677-11-02 11:30 G 40684339.90 40684339.98 40684340.05 0.2681 0.2328 *

Saturn 106677-12-17 20:52 G 40684385.25 40684385.37 40684385.50 0.0298 0.0076

Neptune 106678-01-27 16:18 G 40684425.98 40684426.18 40684426.37 0.0089 0.0006

Jupiter 106678-03-15 06:28 G 40684472.65 40684472.77 40684472.90 0.0515 0.0066

Saturn 106678-03-16 09:20 G 40684473.77 40684473.89 40684474.01 0.0297 0.0102

Neptune 106678-04-25 19:54 G 40684514.14 40684514.33 40684514.53 0.0089 0.0005

Saturn 106678-06-12 21:20 G 40684562.35 40684562.39 40684562.44 0.0297 0.0277

Neptune 106678-07-22 23:30 G 40684602.29 40684602.48 40684602.68 0.0089 0.0015

Neptune 106678-10-19 03:20 G 40684690.45 40684690.64 40684690.83 0.0089 0.0026

Neptune 106679-01-15 06:42 G 40684778.61 40684778.78 40684778.97 0.0089 0.0037

Neptune 106679-04-13 10:32 G 40684866.78 40684866.94 40684867.11 0.0089 0.0047

Neptune 106679-07-10 14:08 G 40684954.95 40684955.09 40684955.25 0.0089 0.0057

Neptune 106679-10-06 17:59 G 40685043.13 40685043.25 40685043.39 0.0089 0.0068

Neptune 106680-01-02 21:20 G 40685131.32 40685131.39 40685131.51 0.0090 0.0079

Mars 106680-02-21 00:28 G 40685180.41 40685180.52 40685180.63 0.1693 0.0596

Neptune 106680-03-31 01:25 G 40685219.55 40685219.56 40685219.60 0.0090 0.0089

Venus 106681-02-01 09:49 G 40685526.82 40685526.91 40685527.00 0.3667 0.1731

Moon 106681-05-03 21:20 G 40685618.28 40685618.39 40685618.49 0.2656 0.0783

Earth 106681-05-03 21:35 G 40685618.30 40685618.40 40685618.50 0.2651 0.0782 *

Venus 106682-08-22 17:01 G 40686094.11 40686094.21 40686094.32 0.3713 0.2738

Jupiter 106684-04-29 22:04 G 40686710.31 40686710.42 40686710.53 0.0510 0.0405

Jupiter 106684-07-29 10:32 G 40686800.93 40686800.94 40686800.94 0.0513 0.0512

Venus 106686-08-18 01:25 G 40687550.45 40687550.56 40687550.66 0.3664 0.0119

Mars 106689-07-13 11:30 G 40688610.90 40688610.98 40688611.05 0.1700 0.1223

Jupiter 106690-01-01 11:30 G 40688782.85 40688782.98 40688783.11 0.0516 0.0081

Mars 106690-08-15 04:32 G 40689008.52 40689008.69 40689008.85 0.1859 0.0431

Earth 106690-11-05 18:56 G 40689091.15 40689091.29 40689091.42 0.2681 0.1418

Moon 106690-11-05 20:23 G 40689091.22 40689091.35 40689091.47 0.2678 0.1714 *

Mars 106691-06-18 15:20 G 40689316.07 40689316.14 40689316.21 0.1673 0.1285

Venus 106692-03-02 16:47 G 40689574.11 40689574.20 40689574.29 0.3660 0.1717

Saturn 106693-01-01 18:28 G 40689879.17 40689879.27 40689879.37 0.0263 0.0222

Saturn 106693-03-31 15:20 G 40689967.96 40689968.14 40689968.33 0.0263 0.0043

Saturn 106693-06-28 12:28 G 40690056.86 40690057.02 40690057.18 0.0263 0.0139

Earth 106694-05-06 14:37 G 40690369.06 40690369.11 40690369.16 0.2649 0.2329

Moon 106694-05-06 15:06 G 40690369.08 40690369.13 40690369.18 0.2655 0.2350 *

Jupiter 106696-05-17 07:25 G 40691110.65 40691110.81 40691110.96 0.0512 0.0289

Venus 106697-09-16 08:08 G 40691597.81 40691597.84 40691597.88 0.3657 0.3389

Mars 106700-01-04 22:04 G 40692438.29 40692438.42 40692438.54 0.1849 0.1233

Mars 106700-11-09 02:23 G 40692746.50 40692746.60 40692746.71 0.1679 0.0696

Moon 106701-04-30 15:20 G 40692919.08 40692919.14 40692919.21 0.2655 0.2137

Earth 106701-04-30 16:04 G 40692919.10 40692919.17 40692919.24 0.2654 0.2022 *

Jupiter 106701-10-21 16:04 G 40693093.05 40693093.17 40693093.28 0.0516 0.0235

Jupiter 106702-01-18 20:37 G 40693182.28 40693182.36 40693182.44 0.0513 0.0385

Saturn 106707-05-07 21:20 G 40695117.28 40695117.39 40695117.50 0.0298 0.0151

Saturn 106707-08-04 09:35 G 40695205.77 40695205.90 40695206.03 0.0298 0.0027

Saturn 106707-10-31 21:49 G 40695294.32 40695294.41 40695294.51 0.0298 0.0203

Jupiter 106708-03-06 04:32 G 40695420.51 40695420.69 40695420.88 0.0512 0.0072

Uranus 106710-02-06 11:30 G 40696122.93 40696122.98 40696123.06 0.0138 0.0129

Mars 106710-04-01 13:25 G 40696176.95 40696177.06 40696177.18 0.1686 0.0096

Uranus 106710-05-05 19:11 G 40696211.18 40696211.30 40696211.44 0.0138 0.0102

Uranus 106710-08-02 02:52 G 40696299.47 40696299.62 40696299.79 0.0138 0.0074

Uranus 106710-10-29 10:32 G 40696387.76 40696387.94 40696388.12 0.0138 0.0047

Uranus 106711-01-25 17:59 G 40696476.07 40696476.25 40696476.45 0.0138 0.0020

Uranus 106711-04-24 01:40 G 40696564.38 40696564.57 40696564.77 0.0138 0.0009

Uranus 106711-07-21 09:20 G 40696652.71 40696652.89 40696653.08 0.0138 0.0036

Uranus 106711-10-17 16:47 G 40696741.04 40696741.20 40696741.38 0.0138 0.0064

Uranus 106712-01-14 00:28 G 40696829.38 40696829.52 40696829.67 0.0137 0.0091

Uranus 106712-04-11 07:54 G 40696917.75 40696917.83 40696917.94 0.0137 0.0119

Jupiter 106713-08-09 20:23 G 40697403.27 40697403.35 40697403.43 0.0517 0.0393

Jupiter 106713-11-07 01:11 G 40697492.44 40697492.55 40697492.67 0.0514 0.0234

Moon 106714-05-03 09:06 G 40697669.77 40697669.88 40697669.98 0.2659 0.0489

Earth 106714-05-03 09:06 G 40697669.78 40697669.88 40697669.99 0.2652 0.0463 *

Mars 106719-08-23 00:28 G 40699607.41 40699607.52 40699607.63 0.1693 0.0519

Jupiter 106719-12-24 01:40 G 40699730.40 40699730.57 40699730.75 0.0511 0.0147

Saturn 106722-08-19 12:42 G 40700699.87 40700700.03 40700700.21 0.0263 0.0109

Saturn 106722-11-16 10:04 G 40700788.73 40700788.92 40700789.10 0.0263 0.0073

Saturn 106723-02-13 06:56 G 40700877.76 40700877.79 40700877.84 0.0264 0.0256

Earth 106723-11-04 16:32 G 40701142.07 40701142.19 40701142.31 0.2680 0.1745

Moon 106723-11-04 17:44 G 40701142.10 40701142.24 40701142.37 0.2674 0.1492 *

Jupiter 106725-08-26 05:30 G 40701802.61 40701802.73 40701802.86 0.0515 0.0075

Earth 106727-05-06 02:23 G 40702420.50 40702420.60 40702420.70 0.2651 0.1103

Moon 106727-05-06 02:52 G 40702420.53 40702420.62 40702420.72 0.2654 0.1190 *

Mars 106729-01-12 11:30 G 40703037.89 40703037.98 40703038.06 0.1700 0.1143

Mars 106730-02-14 05:16 G 40703435.55 40703435.72 40703435.88 0.1859 0.0581

Mars 106730-12-18 15:20 G 40703743.07 40703743.14 40703743.20 0.1673 0.1364

Jupiter 106731-10-11 22:32 G 40704040.31 40704040.44 40704040.56 0.0510 0.0369

Venus 106732-02-24 15:35 G 40704176.09 40704176.15 40704176.21 0.3669 0.2895

Pluto 106733-01-09 08:08 G 40704495.84 40704495.84 40704495.87 0.0059 0.0059

Pluto 106733-04-07 09:35 G 40704583.81 40704583.90 40704584.02 0.0060 0.0050

Pluto 106733-07-04 11:16 G 40704671.82 40704671.97 40704672.11 0.0060 0.0040

Venus 106733-09-13 09:20 G 40704742.75 40704742.89 40704743.03 0.3709 0.1441

Pluto 106733-09-30 12:13 G 40704759.86 40704760.01 40704760.19 0.0060 0.0031

Pluto 106733-12-27 13:40 G 40704847.90 40704848.07 40704848.26 0.0060 0.0021

Pluto 106734-03-25 15:06 G 40704935.94 40704936.13 40704936.33 0.0060 0.0011

Pluto 106734-06-21 16:32 G 40705023.99 40705024.19 40705024.39 0.0060 0.0001

Pluto 106734-09-17 17:44 G 40705112.05 40705112.24 40705112.44 0.0060 0.0009

Pluto 106734-12-14 19:11 G 40705200.12 40705200.30 40705200.49 0.0060 0.0018

Pluto 106735-03-12 20:08 G 40705288.19 40705288.34 40705288.53 0.0060 0.0029

Pluto 106735-06-08 21:20 G 40705376.26 40705376.39 40705376.56 0.0060 0.0039

Pluto 106735-09-04 22:32 G 40705464.35 40705464.44 40705464.59 0.0060 0.0049

Pluto 106735-12-02 00:28 G 40705552.47 40705552.52 40705552.58 0.0060 0.0058

Saturn 106736-09-23 23:01 G 40705849.37 40705849.46 40705849.55 0.0298 0.0206

Moon 106736-11-07 00:42 G 40705893.42 40705893.53 40705893.65 0.2676 0.1932

Earth 106736-11-07 01:40 G 40705893.48 40705893.57 40705893.67 0.2682 0.2175 *

Saturn 106736-12-21 11:30 G 40705937.85 40705937.98 40705938.11 0.0298 0.0028

Saturn 106737-03-19 23:44 G 40706026.38 40706026.49 40706026.60 0.0297 0.0149

Jupiter 106737-06-14 10:18 G 40706112.80 40706112.93 40706113.06 0.0516 0.0075

Venus 106737-09-09 07:11 G 40706199.70 40706199.80 40706199.90 0.3666 0.1141

Mars 106739-07-06 22:47 G 40706865.32 40706865.45 40706865.59 0.1850 0.1076

Earth 106740-05-07 19:25 G 40707171.31 40707171.31 40707171.31 0.2649 0.2648

Mars 106740-05-10 02:23 G 40707173.50 40707173.60 40707173.70 0.1679 0.0774

Venus 106743-03-25 22:47 G 40708223.35 40708223.45 40708223.55 0.3663 0.0590

Jupiter 106743-10-29 05:44 G 40708440.60 40708440.74 40708440.89 0.0512 0.0297

Moon 106747-05-01 20:52 G 40709721.29 40709721.37 40709721.45 0.2660 0.1760

Earth 106747-05-01 20:52 G 40709721.29 40709721.37 40709721.45 0.2653 0.1700 *

Venus 106748-10-08 14:08 G 40710247.01 40710247.09 40710247.17 0.3660 0.2289

Jupiter 106749-04-02 15:06 G 40710423.02 40710423.13 40710423.25 0.0517 0.0224

Jupiter 106749-06-30 19:54 G 40710512.25 40710512.33 40710512.41 0.0514 0.0398

Mars 106749-09-30 13:25 G 40710603.95 40710604.06 40710604.18 0.1686 0.0169

Saturn 106752-01-06 12:28 G 40711431.87 40711432.02 40711432.17 0.0263 0.0157

Saturn 106752-04-04 09:20 G 40711520.70 40711520.89 40711521.08 0.0263 0.0023

Saturn 106752-07-02 06:28 G 40711609.66 40711609.77 40711609.89 0.0264 0.0206

Uranus 106753-02-07 13:54 G 40711830.05 40711830.08 40711830.12 0.0140 0.0135

Uranus 106753-05-06 17:16 G 40711918.15 40711918.22 40711918.30 0.0140 0.0115

Uranus 106753-08-02 20:52 G 40712006.28 40712006.37 40712006.47 0.0140 0.0095

Uranus 106753-10-30 00:13 G 40712094.40 40712094.51 40712094.63 0.0140 0.0075

Uranus 106754-01-26 03:35 G 40712182.54 40712182.65 40712182.78 0.0140 0.0056

Uranus 106754-04-24 07:11 G 40712270.67 40712270.80 40712270.93 0.0140 0.0035

Uranus 106754-07-21 10:32 G 40712358.81 40712358.94 40712359.08 0.0140 0.0015

Uranus 106754-10-17 14:08 G 40712446.95 40712447.09 40712447.22 0.0140 0.0006

Uranus 106755-01-13 17:30 G 40712535.10 40712535.23 40712535.36 0.0140 0.0025

Uranus 106755-04-11 20:52 G 40712623.25 40712623.37 40712623.50 0.0141 0.0045

Uranus 106755-07-09 00:13 G 40712711.40 40712711.51 40712711.63 0.0141 0.0065

Jupiter 106755-08-17 02:37 G 40712750.43 40712750.61 40712750.79 0.0511 0.0074

Uranus 106755-10-05 03:35 G 40712799.55 40712799.65 40712799.76 0.0141 0.0085

Uranus 106756-01-01 06:56 G 40712887.71 40712887.79 40712887.88 0.0141 0.0105

Uranus 106756-03-29 10:18 G 40712975.88 40712975.93 40712976.00 0.0141 0.0125

Neptune 106756-09-19 23:16 G 40713150.44 40713150.47 40713150.51 0.0088 0.0084

Neptune 106756-12-17 00:13 G 40713238.47 40713238.51 40713238.59 0.0088 0.0078

Neptune 106757-03-15 01:40 G 40713326.51 40713326.57 40713326.66 0.0088 0.0071

Neptune 106757-06-11 03:06 G 40713414.55 40713414.63 40713414.73 0.0088 0.0064

Neptune 106757-09-07 04:32 G 40713502.59 40713502.69 40713502.79 0.0088 0.0057

Neptune 106757-12-04 05:30 G 40713590.64 40713590.73 40713590.85 0.0088 0.0051

Neptune 106758-03-02 06:56 G 40713678.68 40713678.79 40713678.91 0.0088 0.0044

Neptune 106758-05-29 08:23 G 40713766.73 40713766.85 40713766.97 0.0088 0.0037

Neptune 106758-08-25 09:35 G 40713854.78 40713854.90 40713855.03 0.0088 0.0030

Neptune 106758-11-21 11:01 G 40713942.83 40713942.96 40713943.09 0.0088 0.0023

Neptune 106759-02-17 12:13 G 40714030.88 40714031.01 40714031.14 0.0088 0.0017

Mars 106759-02-21 00:28 G 40714034.41 40714034.52 40714034.63 0.1693 0.0446

Neptune 106759-05-16 13:40 G 40714118.93 40714119.07 40714119.20 0.0088 0.0010

Neptune 106759-08-12 14:52 G 40714206.99 40714207.12 40714207.25 0.0088 0.0003

Neptune 106759-11-08 16:04 G 40714295.04 40714295.17 40714295.31 0.0088 0.0004

Neptune 106760-02-04 17:16 G 40714383.09 40714383.22 40714383.36 0.0088 0.0011

Neptune 106760-05-02 18:42 G 40714471.15 40714471.28 40714471.41 0.0088 0.0017

Earth 106760-05-03 13:54 G 40714471.97 40714472.08 40714472.19 0.2652 0.0135

Moon 106760-05-03 14:37 G 40714472.00 40714472.11 40714472.21 0.2654 0.0113 *

Neptune 106760-07-29 19:54 G 40714559.21 40714559.33 40714559.46 0.0088 0.0024

Neptune 106760-10-25 21:06 G 40714647.26 40714647.38 40714647.51 0.0088 0.0031

Jupiter 106761-01-19 19:40 G 40714733.23 40714733.32 40714733.40 0.0517 0.0379

Neptune 106761-01-21 22:18 G 40714735.32 40714735.43 40714735.56 0.0088 0.0038

Jupiter 106761-04-19 00:28 G 40714822.41 40714822.52 40714822.63 0.0514 0.0247

Neptune 106761-04-19 23:44 G 40714823.38 40714823.49 40714823.61 0.0088 0.0044

Neptune 106761-07-17 00:56 G 40714911.44 40714911.54 40714911.65 0.0088 0.0051

Neptune 106761-10-13 02:08 G 40714999.50 40714999.59 40714999.70 0.0088 0.0058

Neptune 106762-01-09 03:35 G 40715087.56 40715087.65 40715087.74 0.0088 0.0064

Neptune 106762-04-07 04:47 G 40715175.63 40715175.70 40715175.78 0.0088 0.0071

Neptune 106762-07-04 05:59 G 40715263.70 40715263.75 40715263.82 0.0088 0.0078

Neptune 106762-09-30 07:25 G 40715351.78 40715351.81 40715351.85 0.0088 0.0084

Saturn 106766-02-10 23:30 G 40716581.44 40716581.48 40716581.53 0.0298 0.0279

Saturn 106766-05-10 11:59 G 40716669.88 40716670.00 40716670.13 0.0298 0.0100

Saturn 106766-08-07 00:13 G 40716758.39 40716758.51 40716758.64 0.0298 0.0079

Saturn 106766-11-03 12:28 G 40716846.96 40716847.02 40716847.09 0.0297 0.0253

Jupiter 106767-06-04 23:59 G 40717060.32 40717060.50 40717060.68 0.0511 0.0142

Mars 106768-07-13 11:16 G 40717464.88 40717464.97 40717465.06 0.1700 0.1072

Mars 106769-08-15 06:13 G 40717862.60 40717862.76 40717862.91 0.1859 0.0752

Moon 106769-11-04 21:49 G 40717944.26 40717944.41 40717944.56 0.2676 0.1128

Earth 106769-11-04 23:30 G 40717944.33 40717944.48 40717944.63 0.2680 0.1009 *

Mars 106770-06-18 15:20 G 40718170.08 40718170.14 40718170.19 0.1673 0.1438

Jupiter 106773-02-05 05:01 G 40719132.59 40719132.71 40719132.84 0.0515 0.0095

Earth 106773-05-06 06:56 G 40719222.70 40719222.79 40719222.88 0.2651 0.1426

Moon 106773-05-06 07:40 G 40719222.73 40719222.82 40719222.91 0.2646 0.1460 *

Mars 106777-12-03 22:04 G 40720895.42 40720895.42 40720895.43 0.1707 0.1706

Mars 106779-01-04 23:59 G 40721292.35 40721292.50 40721292.65 0.1850 0.0900

Jupiter 106779-03-23 21:20 G 40721370.26 40721370.39 40721370.52 0.0510 0.0357

Mars 106779-11-09 02:23 G 40721600.50 40721600.60 40721600.70 0.1679 0.0847

Saturn 106781-05-25 10:04 G 40722163.82 40722163.92 40722164.02 0.0263 0.0222

Saturn 106781-08-22 06:56 G 40722252.60 40722252.79 40722252.98 0.0263 0.0042

Saturn 106781-11-19 04:04 G 40722341.51 40722341.67 40722341.83 0.0264 0.0140

Moon 106782-11-08 06:56 G 40722695.75 40722695.79 40722695.83 0.2683 0.2581

Jupiter 106784-11-24 09:20 G 40723442.76 40723442.89 40723443.02 0.0516 0.0067

Venus 106788-09-30 13:11 G 40724848.97 40724849.05 40724849.13 0.3668 0.2295

Mars 106789-03-31 13:25 G 40725030.95 40725031.06 40725031.18 0.1686 0.0249

Venus 106790-04-20 11:44 G 40725415.84 40725415.99 40725416.15 0.3711 0.0423

Jupiter 106791-04-10 05:59 G 40725770.61 40725770.75 40725770.89 0.0512 0.0330

Earth 106793-05-02 01:25 G 40726523.47 40726523.56 40726523.66 0.2653 0.1377

Moon 106793-05-02 02:08 G 40726523.50 40726523.59 40726523.69 0.2654 0.1256 *

Uranus 106794-02-26 18:42 G 40726824.21 40726824.28 40726824.39 0.0138 0.0122

Venus 106794-04-16 04:47 G 40726872.59 40726872.70 40726872.80 0.3665 0.0560

Uranus 106794-05-26 02:37 G 40726912.48 40726912.61 40726912.75 0.0138 0.0094

Uranus 106794-08-22 10:04 G 40727000.76 40727000.92 40727001.10 0.0138 0.0067

Uranus 106794-11-18 17:44 G 40727089.06 40727089.24 40727089.43 0.0138 0.0040

Uranus 106795-02-15 01:25 G 40727177.37 40727177.56 40727177.75 0.0138 0.0012

Uranus 106795-05-14 08:52 G 40727265.69 40727265.87 40727266.07 0.0138 0.0016

Uranus 106795-08-10 16:32 G 40727354.01 40727354.19 40727354.38 0.0138 0.0043

Saturn 106795-09-27 13:54 G 40727401.97 40727402.08 40727402.20 0.0298 0.0153

Uranus 106795-11-06 23:59 G 40727442.35 40727442.50 40727442.68 0.0138 0.0071

Saturn 106795-12-25 02:23 G 40727490.47 40727490.60 40727490.73 0.0298 0.0026

Uranus 106796-02-03 07:40 G 40727530.70 40727530.82 40727530.97 0.0138 0.0098

Saturn 106796-03-22 14:37 G 40727579.02 40727579.11 40727579.20 0.0297 0.0201

Uranus 106796-05-01 15:06 G 40727619.07 40727619.13 40727619.23 0.0137 0.0126

Jupiter 106796-09-12 13:54 G 40727752.96 40727753.08 40727753.20 0.0517 0.0219

Jupiter 106796-12-10 18:28 G 40727842.20 40727842.27 40727842.35 0.0514 0.0402

Mars 106798-08-22 00:28 G 40728461.40 40728461.52 40728461.63 0.1693 0.0369

Venus 106799-10-30 20:08 G 40728896.25 40728896.34 40728896.44 0.3662 0.1181

Jupiter 106803-01-27 00:56 G 40730080.36 40730080.54 40730080.73 0.0511 0.0082

Venus 106805-05-15 11:44 G 40730919.92 40730919.99 40730920.05 0.3659 0.2857

Earth 106806-05-04 18:42 G 40731274.17 40731274.28 40731274.39 0.2652 0.0194

Moon 106806-05-04 18:56 G 40731274.18 40731274.29 40731274.40 0.2646 0.0250 *

Mars 106808-01-12 11:16 G 40731891.88 40731891.97 40731892.06 0.1700 0.0995

Jupiter 106808-07-01 18:28 G 40732063.19 40732063.27 40732063.36 0.0518 0.0372

Jupiter 106808-09-28 23:30 G 40732152.37 40732152.48 40732152.59 0.0515 0.0256

Mars 106809-02-13 07:11 G 40732289.66 40732289.80 40732289.95 0.1860 0.0937

Mars 106809-12-17 15:06 G 40732597.09 40732597.13 40732597.18 0.1672 0.1515

Saturn 106811-01-09 06:42 G 40732984.61 40732984.78 40732984.97 0.0263 0.0089

Saturn 106811-04-08 03:49 G 40733073.49 40733073.66 40733073.84 0.0264 0.0094

Jupiter 106814-11-14 21:49 G 40734390.24 40734390.41 40734390.59 0.0511 0.0143

Moon 106815-11-06 04:47 G 40734746.55 40734746.70 40734746.86 0.2685 0.0561

Earth 106815-11-06 06:28 G 40734746.60 40734746.77 40734746.93 0.2680 0.0259 *

Mars 106817-06-03 22:04 G 40735322.39 40735322.42 40735322.45 0.1707 0.1632

Mars 106818-07-06 00:42 G 40735719.38 40735719.53 40735719.69 0.1850 0.0746

Moon 106819-05-07 11:16 G 40736024.89 40736024.97 40736025.06 0.2645 0.1680

Earth 106819-05-07 11:44 G 40736024.91 40736024.99 40736025.07 0.2650 0.1746 *

Mars 106819-05-10 02:23 G 40736027.50 40736027.60 40736027.69 0.1679 0.0924

Jupiter 106820-07-18 04:04 G 40736462.54 40736462.67 40736462.80 0.0515 0.0104

Saturn 106825-02-13 15:06 G 40738134.04 40738134.13 40738134.22 0.0298 0.0218

Saturn 106825-05-13 03:35 G 40738222.52 40738222.65 40738222.78 0.0298 0.0040

Saturn 106825-08-09 15:49 G 40738311.04 40738311.16 40738311.27 0.0297 0.0137

Earth 106826-04-30 13:11 G 40738575.03 40738575.05 40738575.06 0.2654 0.2619

Moon 106826-04-30 13:54 G 40738575.05 40738575.08 40738575.10 0.2654 0.2564 *

Jupiter 106826-09-02 19:11 G 40738700.17 40738700.30 40738700.43 0.0510 0.0357

Pluto 106828-07-05 13:11 G 40739372.04 40739372.05 40739372.07 0.0084 0.0084

Mars 106828-09-29 13:25 G 40739457.94 40739458.06 40739458.17 0.1686 0.0324

Pluto 106828-10-01 14:23 G 40739460.03 40739460.10 40739460.19 0.0084 0.0065

Pluto 106828-12-28 15:35 G 40739548.05 40739548.15 40739548.27 0.0084 0.0046

Pluto 106829-03-26 17:01 G 40739636.09 40739636.21 40739636.34 0.0084 0.0027

Pluto 106829-06-22 18:13 G 40739724.13 40739724.26 40739724.39 0.0084 0.0009

Pluto 106829-09-18 19:25 G 40739812.18 40739812.31 40739812.44 0.0084 0.0009

Pluto 106829-12-15 20:37 G 40739900.23 40739900.36 40739900.48 0.0084 0.0028

Pluto 106830-03-13 21:35 G 40739988.30 40739988.40 40739988.52 0.0084 0.0046

Pluto 106830-06-09 22:47 G 40740076.38 40740076.45 40740076.54 0.0083 0.0064

Pluto 106830-09-05 23:59 G 40740164.49 40740164.50 40740164.52 0.0083 0.0082

Jupiter 106832-05-06 08:37 G 40740772.73 40740772.86 40740772.98 0.0516 0.0052

Uranus 106837-02-27 21:06 G 40742531.34 40742531.38 40742531.43 0.0140 0.0130

Uranus 106837-05-27 00:42 G 40742619.45 40742619.53 40742619.61 0.0140 0.0110

Uranus 106837-08-23 04:04 G 40742707.57 40742707.67 40742707.77 0.0140 0.0090

Uranus 106837-11-19 07:25 G 40742795.70 40742795.81 40742795.93 0.0140 0.0071

Uranus 106838-02-15 11:01 G 40742883.84 40742883.96 40742884.08 0.0140 0.0050

Mars 106838-02-20 00:13 G 40742888.40 40742888.51 40742888.63 0.1693 0.0298

Uranus 106838-05-14 14:23 G 40742971.97 40742972.10 40742972.23 0.0140 0.0031

Uranus 106838-08-10 17:44 G 40743060.11 40743060.24 40743060.38 0.0140 0.0011

Jupiter 106838-09-20 04:18 G 40743100.55 40743100.68 40743100.82 0.0512 0.0337

Uranus 106838-11-06 21:20 G 40743148.25 40743148.39 40743148.52 0.0140 0.0010

Uranus 106839-02-03 00:42 G 40743236.40 40743236.53 40743236.66 0.0140 0.0029

Uranus 106839-05-02 04:04 G 40743324.55 40743324.67 40743324.79 0.0141 0.0049

Earth 106839-05-03 06:13 G 40743325.66 40743325.76 40743325.86 0.2653 0.1049

Moon 106839-05-03 06:28 G 40743325.67 40743325.77 40743325.87 0.2646 0.0967 *

Uranus 106839-07-29 07:25 G 40743412.70 40743412.81 40743412.93 0.0141 0.0069

Venus 106839-10-22 18:56 G 40743498.26 40743498.29 40743498.32 0.3670 0.3463

Uranus 106839-10-25 10:47 G 40743500.85 40743500.95 40743501.05 0.0141 0.0089

Uranus 106840-01-21 14:08 G 40743589.01 40743589.09 40743589.18 0.0141 0.0109

Uranus 106840-04-18 17:30 G 40743677.19 40743677.23 40743677.29 0.0141 0.0129

Saturn 106840-05-28 04:47 G 40743716.54 40743716.70 40743716.86 0.0263 0.0150

Saturn 106840-08-25 01:40 G 40743805.39 40743805.57 40743805.77 0.0263 0.0032

Neptune 106840-11-19 08:52 G 40743891.82 40743891.87 40743891.95 0.0089 0.0084

Saturn 106840-11-21 22:47 G 40743894.35 40743894.45 40743894.57 0.0264 0.0214

Neptune 106841-02-15 12:28 G 40743979.93 40743980.02 40743980.14 0.0089 0.0074

Venus 106841-05-11 04:18 G 40744064.65 40744064.68 40744064.71 0.3707 0.3629

Neptune 106841-05-14 16:04 G 40744068.05 40744068.17 40744068.32 0.0089 0.0064

Neptune 106841-08-10 20:08 G 40744156.18 40744156.34 40744156.50 0.0089 0.0053

Neptune 106841-11-06 23:44 G 40744244.32 40744244.49 40744244.66 0.0089 0.0043

Neptune 106842-02-03 03:20 G 40744332.47 40744332.64 40744332.83 0.0089 0.0032

Neptune 106842-05-02 07:11 G 40744420.61 40744420.80 40744420.99 0.0089 0.0022

Neptune 106842-07-29 10:47 G 40744508.76 40744508.95 40744509.15 0.0089 0.0012

Neptune 106842-10-25 14:37 G 40744596.91 40744597.11 40744597.30 0.0089 0.0001

Neptune 106843-01-21 18:13 G 40744685.07 40744685.26 40744685.46 0.0089 0.0009

Neptune 106843-04-19 22:04 G 40744773.23 40744773.42 40744773.61 0.0089 0.0020

Neptune 106843-07-17 01:25 G 40744861.39 40744861.56 40744861.76 0.0089 0.0031

Neptune 106843-10-13 05:16 G 40744949.55 40744949.72 40744949.90 0.0089 0.0041

Neptune 106844-01-09 08:52 G 40745037.72 40745037.87 40745038.04 0.0089 0.0051

Jupiter 106844-02-23 12:42 G 40745082.91 40745083.03 40745083.14 0.0516 0.0214

Neptune 106844-04-06 12:42 G 40745125.90 40745126.03 40745126.18 0.0089 0.0062

Jupiter 106844-05-22 17:16 G 40745172.15 40745172.22 40745172.30 0.0514 0.0406

Neptune 106844-07-03 16:32 G 40745214.08 40745214.19 40745214.31 0.0089 0.0072

Neptune 106844-09-29 19:54 G 40745302.28 40745302.33 40745302.42 0.0089 0.0083

Venus 106845-05-07 10:32 G 40745521.85 40745521.94 40745522.03 0.3667 0.1697

Venus 106846-11-25 14:08 G 40746088.97 40746089.09 40746089.21 0.3712 0.2299

Mars 106847-07-13 11:16 G 40746318.88 40746318.97 40746319.07 0.1700 0.0914

Mars 106848-08-14 07:54 G 40746716.69 40746716.83 40746716.97 0.1860 0.1076

Mars 106849-06-17 15:06 G 40747024.10 40747024.13 40747024.16 0.1673 0.1594

Jupiter 106850-07-09 00:56 G 40747410.36 40747410.54 40747410.72 0.0511 0.0108

Venus 106850-11-21 02:08 G 40747545.49 40747545.59 40747545.69 0.3664 0.0065

Moon 106852-05-04 23:01 G 40748076.35 40748076.46 40748076.56 0.2647 0.0382

Earth 106852-05-04 23:30 G 40748076.37 40748076.48 40748076.58 0.2652 0.0524 *

Saturn 106854-07-03 17:01 G 40748866.16 40748866.21 40748866.27 0.0298 0.0270

Saturn 106854-09-30 05:30 G 40748954.61 40748954.73 40748954.86 0.0298 0.0090

Saturn 106854-12-27 17:59 G 40749043.12 40749043.25 40749043.37 0.0297 0.0087

Saturn 106855-03-26 05:59 G 40749131.70 40749131.75 40749131.81 0.0297 0.0262

Jupiter 106855-12-12 17:01 G 40749393.13 40749393.21 40749393.30 0.0517 0.0371

Jupiter 106856-03-10 22:04 G 40749482.31 40749482.42 40749482.53 0.0515 0.0257

Venus 106856-06-05 17:44 G 40749569.15 40749569.24 40749569.33 0.3661 0.1749

Mars 106856-12-02 22:04 G 40749749.38 40749749.42 40749749.46 0.1707 0.1555

Mars 106858-01-04 01:40 G 40750146.41 40750146.57 40750146.73 0.1850 0.0579

Mars 106858-11-08 02:23 G 40750454.51 40750454.60 40750454.69 0.1679 0.1004

Earth 106861-11-06 13:25 G 40751548.90 40751549.06 40751549.21 0.2681 0.0503

Moon 106861-11-06 14:08 G 40751548.93 40751549.09 40751549.25 0.2686 0.0538 *

Venus 106861-12-20 09:06 G 40751592.85 40751592.88 40751592.91 0.3658 0.3418

Jupiter 106862-04-26 20:08 G 40751720.16 40751720.34 40751720.52 0.0510 0.0139

Moon 106865-05-07 15:49 G 40752827.09 40752827.16 40752827.23 0.2653 0.2023

Earth 106865-05-07 16:32 G 40752827.12 40752827.19 40752827.25 0.2650 0.2068 *

Jupiter 106867-12-29 02:52 G 40753792.49 40753792.62 40753792.74 0.0516 0.0108

Mars 106868-03-30 13:11 G 40753884.94 40753885.05 40753885.17 0.1686 0.0401

Saturn 106869-10-15 05:16 G 40754448.59 40754448.72 40754448.85 0.0263 0.0192

Saturn 106870-01-12 02:08 G 40754537.40 40754537.59 40754537.78 0.0264 0.0012

Saturn 106870-04-10 23:16 G 40754626.33 40754626.47 40754626.62 0.0264 0.0172

Moon 106872-04-30 17:44 G 40755377.19 40755377.24 40755377.30 0.2648 0.2301

Earth 106872-04-30 17:44 G 40755377.19 40755377.24 40755377.30 0.2654 0.2295 *

Jupiter 106874-02-12 17:01 G 40756030.08 40756030.21 40756030.33 0.0510 0.0360

Mars 106877-08-21 00:13 G 40757315.40 40757315.51 40757315.63 0.1692 0.0219

Uranus 106878-03-19 02:08 G 40757525.50 40757525.59 40757525.71 0.0138 0.0115

Uranus 106878-06-15 09:35 G 40757613.77 40757613.90 40757614.06 0.0138 0.0088

Uranus 106878-09-11 17:30 G 40757702.06 40757702.23 40757702.40 0.0138 0.0060

Uranus 106878-12-09 00:56 G 40757790.36 40757790.54 40757790.73 0.0138 0.0033

Uranus 106879-03-07 08:37 G 40757878.67 40757878.86 40757879.05 0.0138 0.0005

Uranus 106879-06-03 16:18 G 40757966.99 40757967.18 40757967.37 0.0138 0.0022

Uranus 106879-08-30 23:44 G 40758055.31 40758055.49 40758055.67 0.0138 0.0049

Jupiter 106879-10-17 07:11 G 40758102.68 40758102.80 40758102.93 0.0516 0.0050

Uranus 106879-11-27 07:25 G 40758143.65 40758143.81 40758143.97 0.0138 0.0077

Uranus 106880-02-23 14:52 G 40758232.01 40758232.12 40758232.25 0.0138 0.0105

Uranus 106880-05-21 22:47 G 40758320.40 40758320.45 40758320.50 0.0137 0.0132

Saturn 106884-02-17 07:11 G 40759686.69 40759686.80 40759686.91 0.0298 0.0148

Saturn 106884-05-15 19:25 G 40759775.18 40759775.31 40759775.44 0.0297 0.0031

Saturn 106884-08-12 07:40 G 40759863.73 40759863.82 40759863.92 0.0297 0.0205

Moon 106885-05-03 10:32 G 40760127.83 40760127.94 40760128.04 0.2649 0.0832

Earth 106885-05-03 11:01 G 40760127.86 40760127.96 40760128.06 0.2653 0.0718 *

Jupiter 106886-03-02 01:54 G 40760430.44 40760430.58 40760430.72 0.0512 0.0330

Mars 106887-01-11 11:16 G 40760745.87 40760745.97 40760746.07 0.1700 0.0844

Mars 106888-02-13 08:52 G 40761143.75 40761143.87 40761144.00 0.1860 0.1261

Mars 106888-12-16 15:06 G 40761451.13 40761451.13 40761451.13 0.1672 0.1668

Jupiter 106891-08-05 11:44 G 40762412.87 40762412.99 40762413.11 0.0517 0.0203

Jupiter 106891-11-02 16:18 G 40762502.11 40762502.18 40762502.26 0.0514 0.0417

Earth 106894-11-04 11:01 G 40763599.94 40763599.96 40763599.97 0.2679 0.2659

Moon 106894-11-04 12:13 G 40763599.96 40763600.01 40763600.07 0.2684 0.2508 *

Venus 106896-05-28 16:18 G 40764171.12 40764171.18 40764171.25 0.3670 0.2863

Mars 106896-06-02 22:04 G 40764176.36 40764176.42 40764176.47 0.1707 0.1477

Mars 106897-07-05 02:37 G 40764573.44 40764573.61 40764573.77 0.1850 0.0415

Venus 106897-12-16 06:28 G 40764737.64 40764737.77 40764737.91 0.3708 0.1828

Jupiter 106897-12-18 22:47 G 40764740.27 40764740.45 40764740.63 0.0512 0.0108

Moon 106898-05-06 03:35 G 40764878.55 40764878.65 40764878.76 0.2656 0.0777

Earth 106898-05-06 04:04 G 40764878.57 40764878.67 40764878.78 0.2651 0.0848 *

Mars 106898-05-09 02:08 G 40764881.51 40764881.59 40764881.68 0.1679 0.1076

Saturn 106899-03-04 03:20 G 40765180.59 40765180.64 40765180.70 0.0263 0.0251

Saturn 106899-06-01 00:13 G 40765269.33 40765269.51 40765269.70 0.0263 0.0072

Saturn 106899-08-28 21:20 G 40765358.22 40765358.39 40765358.57 0.0264 0.0111

Venus 106901-12-13 08:08 G 40766194.74 40766194.84 40766194.93 0.3667 0.1110

Jupiter 106903-05-25 15:49 G 40766723.07 40766723.16 40766723.25 0.0517 0.0369

Jupiter 106903-08-22 20:37 G 40766812.25 40766812.36 40766812.47 0.0514 0.0258

Venus 106907-06-28 23:44 G 40768218.38 40768218.49 40768218.59 0.3663 0.0643

Mars 106907-09-30 13:25 G 40768311.95 40768312.06 40768312.17 0.1685 0.0484

Earth 106907-11-08 20:08 G 40768351.20 40768351.34 40768351.49 0.2681 0.1236

Moon 106907-11-08 21:49 G 40768351.28 40768351.41 40768351.55 0.2678 0.1571 *

Jupiter 106909-10-07 19:25 G 40769050.13 40769050.31 40769050.49 0.0511 0.0119

Earth 106911-05-09 21:06 G 40769629.34 40769629.38 40769629.43 0.2650 0.2390

Moon 106911-05-09 21:20 G 40769629.35 40769629.39 40769629.43 0.2656 0.2418 *

Venus 106913-01-11 15:06 G 40770242.05 40770242.13 40770242.21 0.3660 0.2309

Saturn 106913-07-07 09:35 G 40770418.80 40770418.90 40770418.99 0.0298 0.0196

Saturn 106913-10-03 21:49 G 40770507.28 40770507.41 40770507.54 0.0298 0.0019

Saturn 106913-12-31 10:04 G 40770595.82 40770595.92 40770596.03 0.0297 0.0159

Jupiter 106915-06-11 01:11 G 40771122.43 40771122.55 40771122.68 0.0515 0.0106

Mars 106917-02-20 00:13 G 40771742.40 40771742.51 40771742.63 0.1692 0.0139

Moon 106918-05-02 21:49 G 40772179.34 40772179.41 40772179.48 0.2653 0.2023

Earth 106918-05-02 22:32 G 40772179.37 40772179.44 40772179.51 0.2654 0.1967 *

Uranus 106921-03-21 04:32 G 40773232.63 40773232.69 40773232.75 0.0140 0.0125

Uranus 106921-06-17 07:40 G 40773320.75 40773320.82 40773320.92 0.0140 0.0106

Neptune 106921-06-17 23:01 G 40773321.41 40773321.46 40773321.51 0.0088 0.0081

Jupiter 106921-07-26 14:52 G 40773360.00 40773360.12 40773360.25 0.0509 0.0359

Uranus 106921-09-13 11:16 G 40773408.87 40773408.97 40773409.08 0.0140 0.0086

Neptune 106921-09-13 23:59 G 40773409.45 40773409.50 40773409.58 0.0088 0.0075

Uranus 106921-12-10 14:37 G 40773497.00 40773497.11 40773497.24 0.0140 0.0066

Neptune 106921-12-11 01:25 G 40773497.49 40773497.56 40773497.65 0.0088 0.0068

Uranus 106922-03-08 18:13 G 40773585.14 40773585.26 40773585.39 0.0140 0.0046

Neptune 106922-03-09 02:52 G 40773585.53 40773585.62 40773585.72 0.0088 0.0061

Uranus 106922-06-04 21:35 G 40773673.27 40773673.40 40773673.54 0.0140 0.0026

Neptune 106922-06-05 04:18 G 40773673.57 40773673.68 40773673.78 0.0088 0.0054

Uranus 106922-09-01 01:11 G 40773761.41 40773761.55 40773761.68 0.0140 0.0006

Neptune 106922-09-01 05:16 G 40773761.62 40773761.72 40773761.84 0.0088 0.0048 *

Uranus 106922-11-28 04:32 G 40773849.56 40773849.69 40773849.82 0.0140 0.0014

Neptune 106922-11-28 06:42 G 40773849.67 40773849.78 40773849.90 0.0088 0.0041 *

Uranus 106923-02-24 07:54 G 40773937.70 40773937.83 40773937.96 0.0140 0.0034

Neptune 106923-02-24 07:54 G 40773937.72 40773937.83 40773937.96 0.0088 0.0034 *

Neptune 106923-05-23 09:20 G 40774025.77 40774025.89 40774026.02 0.0088 0.0027

Uranus 106923-05-23 11:16 G 40774025.85 40774025.97 40774026.09 0.0140 0.0054 *

Neptune 106923-08-19 10:32 G 40774113.82 40774113.94 40774114.08 0.0088 0.0021

Uranus 106923-08-19 14:37 G 40774114.00 40774114.11 40774114.23 0.0141 0.0074 *

Neptune 106923-11-15 11:59 G 40774201.87 40774202.00 40774202.13 0.0088 0.0014

Uranus 106923-11-15 17:59 G 40774202.16 40774202.25 40774202.35 0.0141 0.0094

Neptune 106924-02-11 13:11 G 40774289.92 40774290.05 40774290.19 0.0088 0.0007

Uranus 106924-02-11 21:20 G 40774290.32 40774290.39 40774290.47 0.0141 0.0114

Neptune 106924-05-09 14:37 G 40774377.97 40774378.11 40774378.24 0.0088 0.0002

Uranus 106924-05-10 00:42 G 40774378.50 40774378.53 40774378.58 0.0141 0.0134

Neptune 106924-08-05 15:49 G 40774466.03 40774466.16 40774466.29 0.0088 0.0007

Neptune 106924-11-01 17:01 G 40774554.08 40774554.21 40774554.35 0.0088 0.0013

Neptune 106925-01-28 18:28 G 40774642.14 40774642.27 40774642.40 0.0088 0.0020

Neptune 106925-04-26 19:40 G 40774730.19 40774730.32 40774730.45 0.0088 0.0027

Neptune 106925-07-23 20:52 G 40774818.25 40774818.37 40774818.50 0.0088 0.0033

Neptune 106925-10-19 22:04 G 40774906.31 40774906.42 40774906.55 0.0088 0.0040

Neptune 106926-01-15 23:16 G 40774994.37 40774994.47 40774994.59 0.0088 0.0047

Neptune 106926-04-14 00:28 G 40775082.43 40775082.52 40775082.64 0.0088 0.0054

Neptune 106926-07-11 01:54 G 40775170.49 40775170.58 40775170.68 0.0088 0.0060

Mars 106926-07-13 11:01 G 40775172.86 40775172.96 40775173.07 0.1700 0.0769

Neptune 106926-10-07 03:06 G 40775258.56 40775258.63 40775258.72 0.0088 0.0067

Neptune 106927-01-03 04:18 G 40775346.62 40775346.68 40775346.76 0.0088 0.0074

Jupiter 106927-03-30 05:44 G 40775432.61 40775432.74 40775432.87 0.0517 0.0049

Neptune 106927-04-01 05:44 G 40775434.69   40775434.74   40775434.80 0.0088 0.0080

Neptune 106927-06-28 06:56 G 40775522.78   40775522.79   40775522.81 0.0088 0.0087

Mars   106927-08-15 10:04 G 40775570.81   40775570.92   40775571.02 0.1860 0.1434

Saturn   106928-10-19 01:11 G 40776001.38   40776001.55   40776001.72 0.0264 0.0109

Saturn   106929-01-15 22:18 G 40776090.25   40776090.43   40776090.61 0.0264 0.0073

Saturn   106929-04-14 19:25 G 40776179.28   40776179.31   40776179.36 0.0264 0.0257

Moon   106931-05-05 15:35 G 40776930.04   40776930.15   40776930.25 0.2658 0.0515

Earth   106931-05-05 15:49 G 40776930.05   40776930.16   40776930.27 0.2652 0.0395 *

Jupiter 106933-08-12 23:16 G 40777760.33   40777760.47   40777760.62 0.0512 0.0322

Mars   106935-12-03 22:04 G 40778603.35   40778603.42   40778603.48 0.1707 0.1404

Mars   106937-01-04 03:35 G 40779000.48   40779000.65   40779000.81 0.1851 0.0255

Mars   106937-11-08 02:08 G 40779308.51   40779308.59   40779308.67 0.1679 0.1154

Jupiter 106939-01-16 10:18 G 40779742.81   40779742.93   40779743.04 0.0517 0.0206

Jupiter 106939-04-15 14:52 G 40779832.05   40779832.12   40779832.20 0.0514 0.0416

Earth   106940-11-05 17:44 G 40780402.13   40780402.24   40780402.36 0.2680 0.1925

Moon   106940-11-05 19:11 G 40780402.18   40780402.30   40780402.42 0.2675 0.1832 *

Saturn   106942-11-24 11:44 G 40781150.92   40781150.99   40781151.06 0.0298 0.0245

Saturn   106943-02-21 00:13 G 40781239.38   40781239.51   40781239.63 0.0297 0.0067

Saturn   106943-05-20 12:28 G 40781327.90   40781328.02   40781328.14 0.0297 0.0110

Saturn   106943-08-17 00:42 G 40781416.49   40781416.53   40781416.56 0.0297 0.0284

Earth   106944-05-07 08:52 G 40781680.77   40781680.87   40781680.97 0.2651 0.1163

Moon   106944-05-07 09:06 G 40781680.79   40781680.88   40781680.98 0.2657 0.1283 *

Jupiter 106945-05-31 19:54 G 40782070.15   40782070.33   40782070.52 0.0511 0.0097

Mars   106947-03-31 13:11 G 40782738.94   40782739.05   40782739.16 0.1685 0.0550

Jupiter 106950-11-04 14:37 G 40784053.02   40784053.11   40784053.20 0.0517 0.0363

Jupiter 106951-02-01 19:25 G 40784142.20   40784142.31   40784142.42 0.0514 0.0264

Venus   106953-01-03 13:54 G 40784844.00   40784844.08   40784844.16 0.3669 0.2266

Moon   106953-11-09 02:52 G 40785153.52   40785153.62   40785153.73 0.2675 0.2039

Earth   106953-11-09 03:06 G 40785153.52   40785153.63   40785153.74 0.2681 0.1988 *

Venus   106954-07-24 08:52 G 40785410.71   40785410.87   40785411.02 0.3710 0.0110

Mars 106956-08-21 00:13 G 40786169.39 40786169.51 40786169.62 0.1692 0.0060

Jupiter 106957-03-19 17:01 G 40786380.03 40786380.21 40786380.39 0.0511 0.0125

Saturn 106958-03-07 23:44 G 40786733.35 40786733.49 40786733.64 0.0263 0.0165

Saturn 106958-06-04 20:52 G 40786822.18 40786822.37 40786822.56 0.0264 0.0016

Venus 106958-07-20 05:30 G 40786867.63 40786867.73 40786867.83 0.3666 0.0519

Saturn 106958-09-01 17:59 G 40786911.13 40786911.25 40786911.38 0.0264 0.0200

Uranus 106962-01-11 01:11 G 40788138.55 40788138.55 40788138.55 0.0138 0.0138

Uranus 106962-04-09 08:23 G 40788226.75 40788226.85 40788226.98 0.0138 0.0111

Uranus 106962-07-06 16:04 G 40788315.03 40788315.17 40788315.33 0.0138 0.0084

Uranus 106962-10-02 23:30 G 40788403.32 40788403.48 40788403.67 0.0138 0.0057

Jupiter 106962-11-20 23:44 G 40788452.36 40788452.49 40788452.61 0.0515 0.0103

Uranus 106962-12-30 07:11 G 40788491.62 40788491.80 40788491.99 0.0138 0.0029

Uranus 106963-03-28 14:52 G 40788579.93 40788580.12 40788580.31 0.0138 0.0002

Uranus 106963-06-24 22:32 G 40788668.25 40788668.44 40788668.63 0.0138 0.0026

Uranus 106963-09-21 05:59 G 40788756.58 40788756.75 40788756.93 0.0138 0.0053

Uranus 106963-12-18 13:40 G 40788844.92 40788845.07 40788845.23 0.0138 0.0081

Venus 106964-02-02 21:06 G 40788891.28 40788891.38 40788891.47 0.3663 0.1193

Uranus 106964-03-15 21:06 G 40788933.27 40788933.38 40788933.51 0.0138 0.0109

Moon 106964-05-03 03:06 G 40788981.55 40788981.63 40788981.71 0.2659 0.1677

Earth 106964-05-03 03:20 G 40788981.56 40788981.64 40788981.72 0.2653 0.1638 *

Uranus 106964-06-12 04:47 G 40789021.68 40789021.70 40789021.74 0.0137 0.0136

Mars 106966-01-11 11:16 G 40789599.86 40789599.97 40789600.07 0.1699 0.0687

Mars 106967-02-13 10:32 G 40789997.86 40789997.94 40789998.03 0.1860 0.1584

Jupiter 106969-01-05 13:25 G 40790689.94 40790690.06 40790690.20 0.0510 0.0349

Venus 106969-08-18 12:28 G 40790914.96 40790915.02 40790915.08 0.3660 0.2873

Saturn 106972-04-12 13:54 G 40791883.07 40791883.08 40791883.11 0.0298 0.0293

Saturn 106972-07-10 02:37 G 40791971.49 40791971.61 40791971.73 0.0298 0.0114

Saturn 106972-10-06 14:52 G 40792059.99 40792060.12 40792060.25 0.0297 0.0064

Saturn 106973-01-03 03:06 G 40792148.55 40792148.63 40792148.70 0.0297 0.0239

Jupiter 106974-09-09 04:04 G 40792762.54 40792762.67 40792762.80 0.0516 0.0054

Mars 106975-06-03 21:49 G 40793030.34 40793030.41 40793030.48 0.1707 0.1328

Mars 106976-07-05 04:18 G 40793427.51 40793427.68 40793427.85 0.1851 0.0088

Earth 106977-05-05 20:37 G 40793732.25 40793732.36 40793732.46 0.2652 0.0125

Moon 106977-05-05 21:06 G 40793732.27 40793732.38 40793732.48 0.2657 0.0068 *

Mars 106977-05-09 02:08 G 40793735.51 40793735.59 40793735.67 0.1678 0.1232

Jupiter 106981-01-22 20:52 G 40795090.24 40795090.37 40795090.52 0.0511 0.0318

Pluto 106981-02-05 14:37 G 40795104.08 40795104.11 40795104.20 0.0060 0.0057

Pluto 106981-05-04 16:18 G 40795192.07 40795192.18 40795192.31 0.0060 0.0047

Pluto 106981-07-31 17:44 G 40795280.10 40795280.24 40795280.40 0.0060 0.0037

Pluto 106981-10-27 18:56 G 40795368.13 40795368.29 40795368.48 0.0060 0.0028

Pluto 106982-01-23 20:23 G 40795456.17 40795456.35 40795456.55 0.0060 0.0018

Pluto 106982-04-21 21:49 G 40795544.22 40795544.41 40795544.61 0.0060 0.0008

Pluto 106982-07-18 23:16 G 40795632.28 40795632.47 40795632.67 0.0060 0.0002

Pluto 106982-10-15 00:28 G 40795720.34 40795720.52 40795720.72 0.0060 0.0012

Pluto 106983-01-11 01:54 G 40795808.40 40795808.58 40795808.77 0.0060 0.0021

Pluto 106983-04-09 03:06 G 40795896.47 40795896.63 40795896.81 0.0060 0.0031

Pluto 106983-07-06 04:18 G 40795984.55 40795984.68 40795984.84 0.0060 0.0041

Pluto 106983-10-02 05:30 G 40796072.65 40796072.73 40796072.86 0.0060 0.0051

Mars 106985-11-24 22:18 G 40796857.37 40796857.43 40796857.49 0.1841 0.1710

Jupiter 106986-06-28 08:23 G 40797072.73 40797072.85 40797072.97 0.0517 0.0213

Jupiter 106986-09-25 13:11 G 40797161.98 40797162.05 40797162.13 0.0514 0.0410

Mars 106986-09-29 13:11 G 40797165.94 40797166.05 40797166.15 0.1685 0.0629

Moon 106986-11-06 23:59 G 40797204.35 40797204.50 40797204.64 0.2674 0.1276

Earth 106986-11-07 00:56 G 40797204.39 40797204.54 40797204.68 0.2680 0.1165 *

Saturn 106987-07-26 00:56 G 40797465.43 40797465.54 40797465.67 0.0264 0.0200

Saturn 106987-10-22 22:04 G 40797554.23 40797554.42 40797554.61 0.0264 0.0019

Saturn 106988-01-19 19:11 G 40797643.16 40797643.30 40797643.45 0.0264 0.0165

Earth 106990-05-08 13:40 G 40798482.98 40798483.07 40798483.16 0.2651 0.1487

Moon 106990-05-08 14:08 G 40798483.00 40798483.09 40798483.18 0.2647 0.1577 *

Jupiter 106992-11-10 17:16 G 40799400.04 40799400.22 40799400.40 0.0511 0.0086

Mars 106996-02-20 00:13 G 40800596.39 40800596.51 40800596.62 0.1692 0.0049

Jupiter 106998-04-16 12:42 G 40801382.94 40801383.03 40801383.12 0.0518 0.0372

Jupiter 106998-07-14 17:44 G 40801472.13 40801472.24 40801472.35 0.0515 0.0257

Moon 106999-11-10 08:23 G 40801955.78 40801955.85 40801955.92 0.2683 0.2409

108TH MILLENNIUM CE

This is a list of transits of Mercury in the 108th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Saturn 107001-11-28 05:16 G 40802703.61 40802703.72 40802703.84 0.0298 0.0154

Saturn 107002-02-24 17:44 G 40802792.11 40802792.24 40802792.37 0.0297 0.0024

Saturn 107002-05-24 05:44 G 40802880.65 40802880.74 40802880.84 0.0297 0.0199

Venus 107004-01-26 19:40 G 40803493.29 40803493.32 40803493.35 0.3671 0.3443

Jupiter 107004-08-30 13:54 G 40803709.90 40803710.08 40803710.26 0.0510 0.0141

Uranus 107005-04-11 11:44 G 40803933.93 40803933.99 40803934.06 0.0140 0.0120

Uranus 107005-07-08 15:20 G 40804022.05 40804022.14 40804022.23 0.0140 0.0100

Mars 107005-07-13 11:01 G 40804026.85 40804026.96 40804027.07 0.1699 0.0613

Neptune 107005-08-18 07:11 G 40804062.73 40804062.80 40804062.90 0.0089 0.0080

Uranus 107005-10-04 18:42 G 40804110.17 40804110.28 40804110.39 0.0140 0.0080

Neptune 107005-11-14 10:47 G 40804150.85 40804150.95 40804151.09 0.0089 0.0070

Uranus 107005-12-31 22:04 G 40804198.30 40804198.42 40804198.54 0.0140 0.0061

Neptune 107006-02-10 14:52 G 40804238.98 40804239.12 40804239.27 0.0089 0.0059

Uranus 107006-03-30 01:25 G 40804286.44 40804286.56 40804286.69 0.0140 0.0041

Neptune 107006-05-09 18:13 G 40804327.11 40804327.26 40804327.44 0.0089 0.0049

Uranus 107006-06-26 05:01 G 40804374.58 40804374.71 40804374.84 0.0140 0.0021

Neptune 107006-08-05 22:04 G 40804415.25 40804415.42 40804415.60 0.0089 0.0038

Mars 107006-08-15 11:44 G 40804424.93 40804424.99 40804425.04 0.1861 0.1762

Uranus 107006-09-22 08:23 G 40804462.72 40804462.85 40804462.98 0.0140 0.0002

Neptune 107006-11-02 01:54 G 40804503.40 40804503.58 40804503.77 0.0089 0.0028

Uranus 107006-12-19 11:44 G 40804550.86 40804550.99 40804551.13 0.0140 0.0020

Neptune 107007-01-29 05:30 G 40804591.54 40804591.73 40804591.93 0.0089 0.0018

Uranus 107007-03-17 15:06 G 40804639.01 40804639.13 40804639.26 0.0140 0.0039

Neptune 107007-04-27 09:20 G 40804679.69 40804679.89 40804680.08 0.0089 0.0007

Uranus 107007-06-13 18:28 G 40804727.16 40804727.27 40804727.40 0.0140 0.0059

Neptune 107007-07-24 12:56 G 40804767.85 40804768.04 40804768.24 0.0089 0.0004

Uranus 107007-09-09 22:04 G 40804815.31 40804815.42 40804815.53 0.0140 0.0079

Neptune 107007-10-20 16:47 G 40804856.00 40804856.20 40804856.39 0.0089 0.0014

Uranus 107007-12-07 01:25 G 40804903.47 40804903.56 40804903.65 0.0141 0.0099

Neptune 107008-01-16 20:08 G 40804944.16 40804944.34 40804944.54 0.0089 0.0025

Uranus 107008-03-04 04:32 G 40804991.63 40804991.69 40804991.77 0.0141 0.0119

Neptune 107008-04-13 23:59 G 40805032.33 40805032.50 40805032.69 0.0089 0.0035

Uranus 107008-05-31 07:54 G 40805079.82 40805079.83 40805079.86 0.0141 0.0139

Neptune 107008-07-11 03:35 G 40805120.49 40805120.65 40805120.83 0.0089 0.0045

Neptune 107008-10-07 07:11 G 40805208.66 40805208.80 40805208.97 0.0089 0.0056

Neptune 107009-01-03 11:16 G 40805296.84 40805296.97 40805297.10 0.0089 0.0066

Neptune 107009-04-01 14:37 G 40805385.03 40805385.11 40805385.23 0.0089 0.0077

Neptune 107009-06-28 18:42 G 40805473.24 40805473.28 40805473.33 0.0090 0.0087

Venus 107009-08-11 11:16 G 40805516.88 40805516.97 40805517.07 0.3668 0.1679

Jupiter 107010-05-03 22:18 G 40805782.31 40805782.43 40805782.56 0.0515 0.0104

Earth 107010-05-05 08:08 G 40805783.74 40805783.84 40805783.93 0.2653 0.1315

Moon 107010-05-05 08:52 G 40805783.77 40805783.87 40805783.96 0.2655 0.1269 *

Venus 107011-03-01 11:01 G 40806083.83 40806083.96 40806084.10 0.3711 0.1837

Mars 107014-12-03 21:49 G 40807457.34 40807457.41 40807457.49 0.1706 0.1247

Venus 107015-02-25 02:52 G 40807540.52 40807540.62 40807540.73 0.3665 0.0137

Mars 107016-01-05 05:16 G 40807854.55 40807854.72 40807854.89 0.1851 0.0094

Jupiter 107016-06-18 10:47 G 40808019.83 40808019.95 40808020.08 0.0510 0.0360

Mars 107016-11-08 02:08 G 40808162.52 40808162.59 40808162.66 0.1678 0.1309

Saturn 107016-12-12 23:59 G 40808197.45 40808197.50 40808197.55 0.0263 0.0253

Saturn 107017-03-11 20:52 G 40808286.19 40808286.37 40808286.56 0.0264 0.0073

Saturn 107017-06-08 17:59 G 40808375.08 40808375.25 40808375.43 0.0264 0.0111

Venus 107020-09-09 18:28 G 40809564.18 40809564.27 40809564.36 0.3662 0.1760

Jupiter 107022-02-20 02:23 G 40810092.47 40810092.60 40810092.73 0.0516 0.0060

Earth 107023-05-08 01:11 G 40810534.44 40810534.55 40810534.66 0.2652 0.0260

Moon 107023-05-08 01:40 G 40810534.47 40810534.57 40810534.68 0.2648 0.0402 *

Mars 107025-05-26 22:47 G 40811284.37 40811284.45 40811284.54 0.1841 0.1575

Venus 107026-03-26 09:49 G 40811587.88 40811587.91 40811587.95 0.3659 0.3437

Mars 107026-03-31 13:11 G 40811592.94 40811593.05 40811593.15 0.1685 0.0709

Jupiter 107028-07-05 19:25 G 40812420.17 40812420.31 40812420.45 0.0512 0.0322

Saturn 107031-04-17 07:54 G 40813435.73 40813435.83 40813435.92 0.0298 0.0200

Saturn 107031-07-14 20:08 G 40813524.21 40813524.34 40813524.47 0.0297 0.0023

Saturn 107031-10-11 08:23 G 40813612.74 40813612.85 40813612.96 0.0297 0.0154

Moon 107032-11-08 06:13 G 40814006.60 40814006.76 40814006.92 0.2683 0.0565

Earth 107032-11-08 07:54 G 40814006.67 40814006.83 40814006.99 0.2680 0.0417 *

Jupiter 107033-12-09 06:42 G 40814402.66 40814402.78 40814402.90 0.0517 0.0219

Jupiter 107034-03-08 11:30 G 40814491.90 40814491.98 40814492.06 0.0514 0.0403

Mars 107035-08-22 00:13 G 40815023.39 40815023.51 40815023.62 0.1692 0.0112

Moon 107036-05-09 18:13 G 40815285.18 40815285.26 40815285.34 0.2644 0.1716

Earth 107036-05-09 18:13 G 40815285.19 40815285.26 40815285.34 0.2650 0.1813 *

Jupiter 107040-04-23 14:52 G 40816729.94 40816730.12 40816730.31 0.0510 0.0080

Earth 107043-05-03 19:40 G 40817835.30 40817835.32 40817835.34 0.2655 0.2568

Moon 107043-05-03 20:23 G 40817835.30 40817835.35 40817835.39 0.2655 0.2432 *

Mars 107045-01-11 11:01 G 40818453.85 40818453.96 40818454.07 0.1699 0.0534

Jupiter 107045-09-27 10:47 G 40818712.87 40818712.95 40818713.04 0.0518 0.0383

Jupiter 107045-12-25 15:49 G 40818802.05 40818802.16 40818802.27 0.0515 0.0247

Uranus 107046-02-01 07:40 G 40818839.78 40818839.82 40818839.86 0.0138 0.0134

Uranus 107046-04-30 15:06 G 40818928.01 40818928.13 40818928.25 0.0138 0.0107

Uranus 107046-07-27 22:32 G 40819016.29 40819016.44 40819016.60 0.0138 0.0079

Saturn 107046-07-29 22:32 G 40819018.26 40819018.44 40819018.61 0.0264 0.0105

Uranus 107046-10-24 05:59 G 40819104.58 40819104.75 40819104.94 0.0138 0.0052

Saturn 107046-10-26 19:40 G 40819107.13 40819107.32 40819107.50 0.0264 0.0078

Uranus 107047-01-20 13:40 G 40819192.89 40819193.07 40819193.26 0.0138 0.0025

Saturn 107047-01-23 16:32 G 40819196.18 40819196.19 40819196.22 0.0265 0.0263

Uranus 107047-04-18 21:20 G 40819281.20 40819281.39 40819281.58 0.0138 0.0003

Uranus 107047-07-16 04:47 G 40819369.52 40819369.70 40819369.89 0.0138 0.0031

Uranus 107047-10-12 12:28 G 40819457.85 40819458.02 40819458.20 0.0138 0.0058

Uranus 107048-01-08 19:54 G 40819546.19 40819546.33 40819546.49 0.0138 0.0086

Uranus 107048-04-06 03:35 G 40819634.55 40819634.65 40819634.77 0.0138 0.0113

Jupiter 107052-02-10 11:16 G 40821039.79 40821039.97 40821040.14 0.0510 0.0150

Mars 107054-06-03 21:49 G 40821884.33 40821884.41 40821884.49 0.1706 0.1174

Mars 107055-07-06 05:59 G 40822281.59 40822281.75 40822281.92 0.1851 0.0248

Earth 107056-05-05 12:56 G 40822585.94 40822586.04 40822586.14 0.2653 0.0994

Moon 107056-05-05 13:11 G 40822585.95 40822586.05 40822586.15 0.2648 0.0919 *

Mars 107056-05-09 01:54 G 40822589.52 40822589.58 40822589.65 0.1678 0.1386

Jupiter 107057-10-13 20:23 G 40823112.22 40823112.35 40823112.47 0.0516 0.0092

Venus 107060-09-01 17:16 G 40824166.15 40824166.22 40824166.28 0.3670 0.2842

Saturn 107060-09-03 11:01 G 40824167.88 40824167.96 40824168.04 0.0298 0.0235

Saturn 107060-11-30 23:30 G 40824256.35 40824256.48 40824256.60 0.0297 0.0058

Saturn 107061-02-27 11:44 G 40824344.87 40824344.99 40824345.11 0.0297 0.0119

Saturn 107061-05-26 23:44 G 40824433.48 40824433.49 40824433.51 0.0296 0.0292

Venus 107062-03-22 03:35 G 40824732.53 40824732.65 40824732.77 0.3707 0.2247

Jupiter 107063-11-29 07:40 G 40825349.70 40825349.82 40825349.94 0.0510 0.0378

Mars 107064-11-25 00:13 G 40825711.40 40825711.51 40825711.62 0.1842 0.1389

Mars 107065-09-29 12:56 G 40826019.94 40826020.04 40826020.15 0.1685 0.0785

Venus 107066-03-18 08:52 G 40826189.77 40826189.87 40826189.97 0.3667 0.1083

Moon 107069-05-08 05:30 G 40827336.63 40827336.73 40827336.84 0.2646 0.0518

Earth 107069-05-08 05:59 G 40827336.64 40827336.75 40827336.85 0.2652 0.0579 *

Jupiter 107069-08-02 00:56 G 40827422.41 40827422.54 40827422.66 0.0516 0.0064

Venus 107071-10-02 00:28 G 40828213.42 40828213.52 40828213.62 0.3664 0.0643

Mars 107075-02-19 23:59 G 40829450.39 40829450.50 40829450.62 0.1692 0.0175

Jupiter 107075-12-16 16:18 G 40829750.04 40829750.18 40829750.33 0.0512 0.0307

Saturn 107075-12-16 21:35 G 40829750.25 40829750.40 40829750.56 0.0263 0.0156 *

Saturn 107076-03-14 18:42 G 40829839.09 40829839.28 40829839.47 0.0264 0.0026

Saturn 107076-06-11 15:49 G 40829928.05 40829928.16 40829928.28 0.0264 0.0210

Pluto 107076-08-02 22:04 G 40829980.39 40829980.42 40829980.47 0.0084 0.0080

Pluto 107076-10-29 23:16 G 40830068.39 40830068.47 40830068.57 0.0084 0.0061

Pluto 107077-01-26 00:28 G 40830156.41 40830156.52 40830156.64 0.0084 0.0043

Venus 107077-04-16 15:49 G 40830237.09 40830237.16 40830237.24 0.3661 0.2333

Pluto 107077-04-24 01:40 G 40830244.45 40830244.57 40830244.70 0.0084 0.0024

Pluto 107077-07-21 03:06 G 40830332.49 40830332.63 40830332.76 0.0084 0.0006

Pluto 107077-10-17 04:18 G 40830420.54 40830420.68 40830420.81 0.0084 0.0013

Pluto 107078-01-13 05:16 G 40830508.60 40830508.72 40830508.85 0.0084 0.0031

Pluto 107078-04-11 06:28 G 40830596.67 40830596.77 40830596.88 0.0084 0.0049

Pluto 107078-07-08 07:40 G 40830684.75 40830684.82 40830684.90 0.0083 0.0068

Earth 107078-11-09 14:52 G 40830808.95 40830809.12 40830809.28 0.2680 0.0335

Moon 107078-11-09 15:20 G 40830808.98 40830809.14 40830809.30 0.2687 0.0384 *

Jupiter 107081-05-21 04:47 G 40831732.59 40831732.70 40831732.82 0.0517 0.0227

Jupiter 107081-08-18 09:35 G 40831821.82 40831821.90 40831821.98 0.0514 0.0395

Moon 107082-05-10 22:18 G 40832087.37 40832087.43 40832087.50 0.2651 0.2029

Earth 107082-05-10 23:01 G 40832087.40 40832087.46 40832087.52 0.2650 0.2131 *

Mars 107084-07-12 11:01 G 40832880.85 40832880.96 40832881.07 0.1699 0.0454

Neptune 107085-12-17 21:20 G 40833404.37 40833404.39 40833404.42 0.0088 0.0085

Neptune 107086-03-15 22:18 G 40833492.39 40833492.43 40833492.51 0.0088 0.0079

Neptune 107086-06-11 23:44 G 40833580.43 40833580.49 40833580.58 0.0088 0.0072

Neptune 107086-09-08 01:11 G 40833668.47 40833668.55 40833668.65 0.0088 0.0065

Neptune 107086-12-05 02:37 G 40833756.51 40833756.61 40833756.71 0.0088 0.0058

Neptune 107087-03-03 04:04 G 40833844.56 40833844.67 40833844.77 0.0088 0.0051

Neptune 107087-05-30 05:01 G 40833932.60 40833932.71 40833932.83 0.0088 0.0045

Neptune 107087-08-26 06:28 G 40834020.65 40834020.77 40834020.89 0.0088 0.0038

Jupiter 107087-10-04 12:42 G 40834059.85 40834060.03 40834060.22 0.0511 0.0080

Neptune 107087-11-22 07:40 G 40834108.70 40834108.82 40834108.95 0.0088 0.0031

Neptune 107088-02-18 09:06 G 40834196.75 40834196.88 40834197.01 0.0088 0.0024

Neptune 107088-05-16 10:18 G 40834284.80 40834284.93 40834285.06 0.0088 0.0018

Neptune 107088-08-12 11:44 G 40834372.86 40834372.99 40834373.12 0.0088 0.0011

Neptune 107088-11-08 12:56 G 40834460.91 40834461.04 40834461.18 0.0088 0.0004

Uranus 107089-02-02 15:35 G 40834547.12 40834547.15 40834547.19 0.0140 0.0135

Neptune 107089-02-04 14:23 G 40834548.96 40834549.10 40834549.23 0.0088 0.0004

Uranus 107089-05-01 18:56 G 40834635.23 40834635.29 40834635.38 0.0140 0.0115

Neptune 107089-05-03 15:35 G 40834637.02 40834637.15 40834637.28 0.0088 0.0009

Earth 107089-05-04 00:28 G 40834637.46 40834637.52 40834637.57 0.2654 0.2239

Moon 107089-05-04 00:42 G 40834637.47 40834637.53 40834637.58 0.2647 0.2254 *

Uranus 107089-07-28 22:32 G 40834723.35 40834723.44 40834723.54 0.0140 0.0095

Neptune 107089-07-30 16:47 G 40834725.07 40834725.20 40834725.33 0.0088 0.0016

Uranus 107089-10-25 01:54 G 40834811.48 40834811.58 40834811.70 0.0140 0.0075

Neptune 107089-10-26 17:59 G 40834813.13 40834813.25 40834813.38 0.0088 0.0023

Uranus 107090-01-21 05:30 G 40834899.61 40834899.73 40834899.86 0.0140 0.0055

Saturn 107090-01-21 13:25 G 40834900.03 40834900.06 40834900.10 0.0298 0.0283

Neptune 107090-01-22 19:11 G 40834901.19 40834901.30 40834901.44 0.0088 0.0030

Uranus 107090-04-19 08:52 G 40834987.75 40834987.87 40834988.00 0.0140 0.0035

Saturn 107090-04-20 01:54 G 40834988.46 40834988.58 40834988.70 0.0298 0.0104

Neptune 107090-04-20 20:37 G 40834989.24 40834989.36 40834989.48 0.0088 0.0036

Uranus 107090-07-16 12:28 G 40835075.89 40835076.02 40835076.15 0.0140 0.0015

Saturn 107090-07-17 14:08 G 40835076.97 40835077.09 40835077.22 0.0297 0.0074

Neptune 107090-07-17 21:49 G 40835077.30 40835077.41 40835077.53 0.0088 0.0043

Uranus 107090-10-12 15:49 G 40835164.03 40835164.16 40835164.29 0.0140 0.0005

Neptune 107090-10-13 23:01 G 40835165.36 40835165.46 40835165.58 0.0088 0.0050

Saturn 107090-10-14 02:23 G 40835165.53 40835165.60 40835165.67 0.0297 0.0248 *

Uranus 107091-01-08 19:11 G 40835252.17 40835252.30 40835252.43 0.0140 0.0025

Neptune 107091-01-10 00:28 G 40835253.42 40835253.52 40835253.62 0.0088 0.0056

Uranus 107091-04-06 22:32 G 40835340.32 40835340.44 40835340.57 0.0140 0.0045

Neptune 107091-04-08 01:40 G 40835341.48 40835341.57 40835341.67 0.0088 0.0063

Uranus 107091-07-04 02:08 G 40835428.47 40835428.59 40835428.70 0.0140 0.0065

Neptune 107091-07-05 02:52 G 40835429.55 40835429.62 40835429.71 0.0088 0.0070

Uranus 107091-09-30 05:30 G 40835516.62 40835516.73 40835516.83 0.0140 0.0085

Neptune 107091-10-01 04:18 G 40835517.62 40835517.68 40835517.74 0.0088 0.0076

Uranus 107091-12-27 08:52 G 40835604.78 40835604.87 40835604.96 0.0140 0.0104

Neptune 107091-12-28 05:16 G 40835605.69 40835605.72 40835605.77 0.0088 0.0083

Uranus 107092-03-24 11:59 G 40835692.95 40835693.00 40835693.07 0.0141 0.0125

Jupiter 107093-03-09 08:52 G 40836042.79 40836042.87 40836042.96 0.0518 0.0390

Jupiter 107093-06-06 14:08 G 40836131.97 40836132.09 40836132.20 0.0515 0.0240

Mars 107093-12-02 21:49 G 40836311.32 40836311.41 40836311.49 0.1706 0.1097

Mars 107095-01-04 07:11 G 40836708.63 40836708.80 40836708.96 0.1852 0.0419

Mars 107095-11-08 01:54 G 40837016.53 40837016.58 40837016.64 0.1678 0.1466

Jupiter 107099-07-23 08:37 G 40838369.69 40838369.86 40838370.04 0.0510 0.0158

Moon 107102-05-07 17:01 G 40839388.11 40839388.21 40839388.32 0.2649 0.0699

Earth 107102-05-07 17:30 G 40839388.13 40839388.23 40839388.34 0.2653 0.0669 *

Mars 107104-05-27 00:56 G 40840138.42 40840138.54 40840138.67 0.1842 0.1228

Jupiter 107105-03-26 18:13 G 40840442.14 40840442.26 40840442.39 0.0516 0.0080

Mars 107105-03-31 12:56 G 40840446.94 40840447.04 40840447.14 0.1685 0.0859

Saturn 107105-05-05 23:01 G 40840482.33 40840482.46 40840482.59 0.0264 0.0189

Saturn 107105-08-02 20:08 G 40840571.15 40840571.34 40840571.53 0.0264 0.0008

Saturn 107105-10-30 17:01 G 40840660.08 40840660.21 40840660.36 0.0265 0.0177

Jupiter 107111-05-12 05:01 G 40842679.60 40842679.71 40842679.83 0.0509 0.0385

Moon 107111-11-08 13:40 G 40842860.02 40842860.07 40842860.12 0.2684 0.2529

Mars 107114-08-21 23:59 G 40843877.39 40843877.50 40843877.62 0.1692 0.0251

Moon 107115-05-10 10:04 G 40844138.82 40844138.92 40844139.02 0.2653 0.0733

Earth 107115-05-10 10:32 G 40844138.84 40844138.94 40844139.05 0.2651 0.0910 *

Jupiter 107117-01-12 22:47 G 40844752.32 40844752.45 40844752.57 0.0517 0.0077

Venus 107117-04-09 14:37 G 40844839.03 40844839.11 40844839.19 0.3670 0.2243

Venus 107118-10-28 05:59 G 40845405.59 40845405.75 40845405.90 0.3709 0.0439

Saturn 107119-09-08 05:30 G 40845720.61 40845720.73 40845720.84 0.0297 0.0134

Saturn 107119-12-05 17:44 G 40845809.11 40845809.24 40845809.37 0.0297 0.0043

Saturn 107120-03-03 05:59 G 40845897.66 40845897.75 40845897.84 0.0297 0.0217

Venus 107122-10-24 06:13 G 40846862.66 40846862.76 40846862.87 0.3666 0.0511

Jupiter 107123-05-29 12:56 G 40847079.89 40847080.04 40847080.19 0.0512 0.0285

Mars 107124-01-12 10:47 G 40847307.84 40847307.95 40847308.07 0.1699 0.0386

Earth 107124-11-10 21:35 G 40847611.25 40847611.40 40847611.55 0.2681 0.1071

Moon 107124-11-10 23:30 G 40847611.34 40847611.48 40847611.62 0.2681 0.1249 *

Venus 107128-05-08 21:49 G 40848886.31 40848886.41 40848886.51 0.3663 0.1216

Earth 107128-05-12 03:49 G 40848889.62 40848889.66 40848889.69 0.2650 0.2454

Moon 107128-05-12 03:49 G 40848889.63 40848889.66 40848889.69 0.2657 0.2530 *

Jupiter 107128-11-01 03:20 G 40849062.52 40849062.64 40849062.75 0.0517 0.0231

Jupiter 107129-01-29 08:08 G 40849151.76 40849151.84 40849151.92 0.0514 0.0391

Uranus 107130-02-22 13:54 G 40849541.02 40849541.08 40849541.15 0.0138 0.0129

Uranus 107130-05-21 21:20 G 40849629.27 40849629.39 40849629.52 0.0138 0.0102

Uranus 107130-08-18 04:47 G 40849717.55 40849717.70 40849717.87 0.0138 0.0075

Uranus 107130-11-14 12:28 G 40849805.84 40849806.02 40849806.20 0.0138 0.0048

Uranus 107131-02-10 19:54 G 40849894.15 40849894.33 40849894.53 0.0138 0.0021

Uranus 107131-05-10 03:35 G 40849982.46 40849982.65 40849982.85 0.0138 0.0007

Uranus 107131-08-06 11:01 G 40850070.78 40850070.96 40850071.16 0.0138 0.0035

Uranus 107131-11-02 18:56 G 40850159.12 40850159.29 40850159.46 0.0138 0.0062

Uranus 107132-01-30 02:23 G 40850247.46 40850247.60 40850247.75 0.0138 0.0090

Uranus 107132-04-27 10:04 G 40850335.83 40850335.92 40850336.02 0.0137 0.0117

Mars 107133-06-03 21:49 G 40850738.32 40850738.41 40850738.50 0.1706 0.1016

Venus 107133-11-22 13:25 G 40850910.00 40850910.06 40850910.12 0.3660 0.2900

Mars 107134-07-06 07:54 G 40851135.67 40851135.83 40851135.99 0.1852 0.0580

Saturn 107134-09-22 22:32 G 40851214.36 40851214.44 40851214.52 0.0263 0.0238

Saturn 107134-12-20 19:25 G 40851303.13 40851303.31 40851303.50 0.0264 0.0057

Jupiter 107135-03-17 09:35 G 40851389.72 40851389.90 40851390.09 0.0511 0.0062

Saturn 107135-03-19 16:32 G 40851392.03 40851392.19 40851392.36 0.0264 0.0126

Moon 107135-05-06 04:32 G 40851439.62 40851439.69 40851439.76 0.2651 0.2025

Earth 107135-05-06 05:16 G 40851439.64 40851439.72 40851439.79 0.2654 0.1906 *

Mars 107135-05-10 01:54 G 40851443.54 40851443.58 40851443.62 0.1678 0.1540

Jupiter 107140-08-20 07:11 G 40853372.72 40853372.80 40853372.88 0.0518 0.0397

Jupiter 107140-11-17 12:13 G 40853461.90 40853462.01 40853462.13 0.0515 0.0232

Mars 107142-10-25 08:37 G 40854168.83 40854168.86 40854168.88 0.1713 0.1666

Mars 107143-11-26 01:40 G 40854565.43 40854565.57 40854565.71 0.1842 0.1080

Mars 107144-09-29 12:56 G 40854873.95 40854874.04 40854874.14 0.1684 0.0944

Jupiter 107147-01-03 06:28 G 40855699.59 40855699.77 40855699.94 0.0510 0.0163

Moon 107148-05-07 21:49 G 40856190.30 40856190.41 40856190.51 0.2657 0.0421

Earth 107148-05-07 22:18 G 40856190.32 40856190.43 40856190.54 0.2652 0.0335 *

Saturn 107149-01-25 07:40 G 40856452.72 40856452.82 40856452.92 0.0298 0.0185

Saturn 107149-04-23 19:54 G 40856541.20 40856541.33 40856541.46 0.0297 0.0012

Saturn 107149-07-21 08:08 G 40856629.74 40856629.84 40856629.95 0.0297 0.0170

Jupiter 107152-09-05 16:32 G 40857772.07 40857772.19 40857772.32 0.0516 0.0075

Mars 107154-02-19 23:59 G 40858304.39 40858304.50 40858304.61 0.1691 0.0325

Earth 107157-11-08 19:25 G 40859662.21 40859662.31 40859662.41 0.2679 0.2070

Moon 107157-11-08 21:20 G 40859662.27 40859662.39 40859662.50 0.2676 0.1811 *

Jupiter 107158-10-22 02:37 G 40860009.50 40860009.61 40860009.73 0.0509 0.0391

Earth 107161-05-10 15:20 G 40860941.05 40860941.14 40860941.24 0.2651 0.1221

Moon 107161-05-10 15:35 G 40860941.06 40860941.15 40860941.25 0.2657 0.1255 *

Mars 107163-07-13 10:47 G 40861734.84 40861734.95 40861735.07 0.1699 0.0307

Saturn 107164-05-08 20:37 G 40862035.19 40862035.36 40862035.54 0.0264 0.0092

Jupiter 107164-06-24 20:37 G 40862082.24 40862082.36 40862082.49 0.0517 0.0091

Saturn 107164-08-05 17:44 G 40862124.06 40862124.24 40862124.42 0.0264 0.0091

Venus 107168-04-30 20:23 G 40863488.32 40863488.35 40863488.39 0.3672 0.3412

Neptune 107170-02-17 02:23 G 40864145.55 40864145.60 40864145.67 0.0089 0.0085

Neptune 107170-05-16 05:44 G 40864233.66 40864233.74 40864233.87 0.0089 0.0075

Neptune 107170-08-12 09:20 G 40864321.78 40864321.89 40864322.05 0.0089 0.0065

Jupiter 107170-11-08 10:32 G 40864409.79 40864409.94 40864410.09 0.0511 0.0279

Neptune 107170-11-08 13:25 G 40864409.91 40864410.06 40864410.22 0.0089 0.0054 *

Moon 107170-11-12 04:32 G 40864413.57 40864413.69 40864413.81 0.2674 0.1840

Earth 107170-11-12 04:32 G 40864413.58 40864413.69 40864413.81 0.2681 0.1827 *

Neptune 107171-02-04 17:01 G 40864498.05 40864498.21 40864498.39 0.0089 0.0044

Neptune 107171-05-03 20:37 G 40864586.19 40864586.36 40864586.55 0.0089 0.0034

Neptune 107171-07-31 00:13 G 40864674.34 40864674.51 40864674.71 0.0089 0.0024

Neptune 107171-10-27 04:18 G 40864762.49 40864762.68 40864762.87 0.0089 0.0012

Neptune 107172-01-23 07:54 G 40864850.64 40864850.83 40864851.03 0.0089 0.0002

Neptune 107172-04-20 11:30 G 40864938.79 40864938.98 40864939.18 0.0089 0.0009

Neptune 107172-07-17 15:20 G 40865026.95 40865027.14 40865027.33 0.0089 0.0019

Neptune 107172-10-13 18:56 G 40865115.11 40865115.29 40865115.48 0.0089 0.0029

Mars 107172-12-02 21:35 G 40865165.31 40865165.40 40865165.50 0.1706 0.0943

Neptune 107173-01-09 22:32 G 40865203.28 40865203.44 40865203.63 0.0089 0.0040

Uranus 107173-02-23 23:01 G 40865248.41 40865248.46 40865248.51 0.0140 0.0129

Neptune 107173-04-08 02:08 G 40865291.45 40865291.59 40865291.77 0.0089 0.0051

Uranus 107173-05-23 02:23 G 40865336.53 40865336.60 40865336.69 0.0140 0.0109

Neptune 107173-07-05 05:59 G 40865379.62 40865379.75 40865379.91 0.0089 0.0061

Uranus 107173-08-19 05:59 G 40865424.65 40865424.75 40865424.85 0.0140 0.0089

Neptune 107173-10-01 10:04 G 40865467.80 40865467.92 40865468.04 0.0089 0.0071

Venus 107173-11-14 12:13 G 40865511.92 40865512.01 40865512.10 0.3669 0.1645

Uranus 107173-11-15 09:20 G 40865512.78 40865512.89 40865513.01 0.0140 0.0069

Neptune 107173-12-28 13:25 G 40865556.00 40865556.06 40865556.15 0.0089 0.0082

Mars 107174-01-04 08:52 G 40865562.71 40865562.87 40865563.03 0.1852 0.0748

Uranus 107174-02-11 12:56 G 40865600.92 40865601.04 40865601.16 0.0140 0.0049

Uranus 107174-05-10 16:18 G 40865689.05 40865689.18 40865689.31 0.0140 0.0029

Uranus 107174-08-06 19:54 G 40865777.19 40865777.33 40865777.46 0.0140 0.0010

Uranus 107174-11-02 23:16 G 40865865.34 40865865.47 40865865.60 0.0140 0.0011

Mars 107174-11-08 01:54 G 40865870.55 40865870.58 40865870.61 0.1678 0.1619

Uranus 107175-01-30 02:37 G 40865953.48 40865953.61 40865953.74 0.0140 0.0031

Uranus 107175-04-28 05:59 G 40866041.63 40866041.75 40866041.88 0.0140 0.0051

Venus 107175-06-04 08:23 G 40866078.70 40866078.85 40866078.99 0.3710 0.1426

Uranus 107175-07-25 09:35 G 40866129.78 40866129.90 40866130.01 0.0140 0.0071

Uranus 107175-10-21 12:42 G 40866217.94 40866218.03 40866218.14 0.0140 0.0091

Uranus 107176-01-17 16:04 G 40866306.10 40866306.17 40866306.26 0.0141 0.0111

Jupiter 107176-04-13 01:11 G 40866392.43 40866392.55 40866392.66 0.0518 0.0247

Uranus 107176-04-14 19:40 G 40866394.28 40866394.32 40866394.37 0.0141 0.0130

Jupiter 107176-07-11 05:59 G 40866481.67 40866481.75 40866481.84 0.0515 0.0377

Saturn 107178-06-14 11:01 G 40867184.88 40867184.96 40867185.05 0.0297 0.0215

Saturn 107178-09-10 23:30 G 40867273.35 40867273.48 40867273.61 0.0297 0.0037

Saturn 107178-12-08 11:44 G 40867361.88 40867361.99 40867362.11 0.0297 0.0139

Venus 107179-05-31 03:49 G 40867535.56 40867535.66 40867535.76 0.3665 0.0095

Moon 107181-05-06 09:35 G 40868241.81 40868241.90 40868241.99 0.2660 0.1585

Earth 107181-05-06 09:49 G 40868241.83 40868241.91 40868242.00 0.2654 0.1582 *

Mars 107182-04-25 08:23 G 40868595.81 40868595.85 40868595.89 0.1713 0.1592

Jupiter 107182-08-27 06:13 G 40868719.58 40868719.76 40868719.95 0.0511 0.0041

Mars 107183-05-27 02:52 G 40868992.47 40868992.62 40868992.77 0.1843 0.0901

Mars 107184-03-30 12:56 G 40869300.95 40869301.04 40869301.13 0.1685 0.1015

Venus 107184-12-13 19:25 G 40869559.22 40869559.31 40869559.40 0.3663 0.1794

Jupiter 107188-01-31 05:30 G 40870702.66 40870702.73 40870702.82 0.0518 0.0401

Jupiter 107188-04-29 10:47 G 40870791.83 40870791.95 40870792.06 0.0515 0.0229

Venus 107190-06-29 10:47 G 40871582.92 40871582.95 40871582.98 0.3659 0.3460

Mars 107193-08-20 23:59 G 40872731.39 40872731.50 40872731.61 0.1691 0.0406

Saturn 107193-09-25 19:54 G 40872767.18 40872767.33 40872767.50 0.0263 0.0142

Saturn 107193-12-23 17:01 G 40872856.03 40872856.21 40872856.40 0.0264 0.0041

Saturn 107194-03-22 14:08 G 40872945.00 40872945.09 40872945.20 0.0264 0.0224

Earth 107194-05-09 03:06 G 40872992.52 40872992.63 40872992.74 0.2652 0.0067

Moon 107194-05-09 03:20 G 40872992.54 40872992.64 40872992.75 0.2658 0.0059 *

Jupiter 107194-06-15 03:20 G 40873029.46 40873029.64 40873029.81 0.0510 0.0181

Jupiter 107200-02-16 14:52 G 40875102.00 40875102.12 40875102.25 0.0516 0.0070

Mars 107203-01-11 10:47 G 40876161.84 40876161.95 40876162.07 0.1698 0.0226

Moon 107203-11-10 01:40 G 40876464.44 40876464.57 40876464.71 0.2674 0.1531

Earth 107203-11-10 02:23 G 40876464.46 40876464.60 40876464.74 0.2680 0.1331 *

Jupiter 107206-04-03 00:13 G 40877339.40 40877339.51 40877339.62 0.0509 0.0398

Jupiter 107206-07-02 12:13 G 40877430.00 40877430.01 40877430.02 0.0512 0.0510

Earth 107207-05-11 20:08 G 40877743.25 40877743.34 40877743.43 0.2651 0.1548

Moon 107207-05-11 20:52 G 40877743.29 40877743.37 40877743.45 0.2650 0.1732 *

Saturn 107207-11-01 12:56 G 40877916.99 40877917.04 40877917.10 0.0298 0.0269

Saturn 107208-01-29 01:40 G 40878005.44 40878005.57 40878005.69 0.0298 0.0090

Saturn 107208-04-26 13:54 G 40878093.96 40878094.08 40878094.20 0.0297 0.0087

Saturn 107208-07-24 02:08 G 40878182.53 40878182.59 40878182.65 0.0297 0.0262

Jupiter 107211-12-05 19:11 G 40879412.17 40879412.30 40879412.43 0.0517 0.0091

Mars 107212-06-02 21:35 G 40879592.30 40879592.40 40879592.50 0.1706 0.0864

Mars 107213-07-05 09:49 G 40879989.76 40879989.91 40879990.06 0.1853 0.0919

Uranus 107214-03-14 20:37 G 40880242.29 40880242.36 40880242.46 0.0138 0.0123

Uranus 107214-06-11 04:18 G 40880330.55 40880330.68 40880330.82 0.0138 0.0096

Uranus 107214-09-07 11:44 G 40880418.83 40880418.99 40880419.16 0.0138 0.0069

Uranus 107214-12-04 19:25 G 40880507.13 40880507.31 40880507.50 0.0138 0.0041

Uranus 107215-03-03 03:06 G 40880595.44 40880595.63 40880595.82 0.0138 0.0014

Uranus 107215-05-30 10:32 G 40880683.75 40880683.94 40880684.14 0.0138 0.0014

Uranus 107215-08-26 18:13 G 40880772.08 40880772.26 40880772.45 0.0138 0.0041

Uranus 107215-11-23 01:40 G 40880860.41 40880860.57 40880860.75 0.0138 0.0069

Uranus 107216-02-19 09:20 G 40880948.76 40880948.89 40880949.03 0.0138 0.0096

Uranus 107216-05-17 16:47 G 40881037.13 40881037.20 40881037.30 0.0137 0.0124

Moon 107216-11-12 09:49 G 40881215.84 40881215.91 40881215.97 0.2679 0.2416

Earth 107216-11-12 11:30 G 40881215.95 40881215.98 40881216.02 0.2681 0.2589 *

Jupiter 107218-04-20 08:08 G 40881739.69 40881739.84 40881740.00 0.0511 0.0275

Mars 107221-10-24 08:23 G 40883022.80 40883022.85 40883022.90 0.1713 0.1513

Mars 107222-11-25 03:49 G 40883419.50 40883419.66 40883419.81 0.1843 0.0736

Saturn 107223-02-12 20:52 G 40883499.24 40883499.37 40883499.51 0.0264 0.0179

Saturn 107223-05-12 17:59 G 40883588.06 40883588.25 40883588.44 0.0264 0.0003

Saturn 107223-08-09 15:06 G 40883677.00 40883677.13 40883677.26 0.0264 0.0186

Jupiter 107223-09-23 23:01 G 40883722.35 40883722.46 40883722.58 0.0518 0.0258

Mars 107223-09-29 12:42 G 40883727.95 40883728.03 40883728.12 0.1684 0.1096

Jupiter 107223-12-22 04:04 G 40883811.58 40883811.67 40883811.76 0.0515 0.0367

Venus 107224-12-05 17:59 G 40884161.19 40884161.25 40884161.32 0.3671 0.2808

Venus 107226-06-25 00:42 G 40884727.43 40884727.53 40884727.64 0.3706 0.2618

Earth 107227-05-07 14:37 G 40885044.02 40885044.11 40885044.21 0.2653 0.1254

Moon 107227-05-07 15:06 G 40885044.03 40885044.13 40885044.23 0.2658 0.1152 *

Pluto 107229-03-05 21:35 G 40885712.33 40885712.40 40885712.52 0.0060 0.0053

Pluto 107229-06-01 23:16 G 40885800.35 40885800.47 40885800.61 0.0060 0.0043

Pluto 107229-08-29 00:13 G 40885888.37 40885888.51 40885888.70 0.0060 0.0034

Pluto 107229-11-25 01:54 G 40885976.41 40885976.58 40885976.77 0.0060 0.0024

Jupiter 107230-02-06 04:18 G 40886049.50 40886049.68 40886049.87 0.0510 0.0044

Pluto 107230-02-21 03:20 G 40886064.46 40886064.64 40886064.84 0.0060 0.0014

Pluto 107230-05-20 04:47 G 40886152.51 40886152.70 40886152.90 0.0060 0.0004

Venus 107230-06-21 09:35 G 40886184.80 40886184.90 40886185.00 0.3668 0.1061

Pluto 107230-08-16 05:59 G 40886240.57 40886240.75 40886240.95 0.0060 0.0006

Pluto 107230-11-12 07:25 G 40886328.63 40886328.81 40886329.01 0.0060 0.0015

Pluto 107231-02-08 08:37 G 40886416.70 40886416.86 40886417.05 0.0060 0.0025

Pluto 107231-05-07 09:49 G 40886504.77 40886504.91 40886505.09 0.0060 0.0035

Pluto 107231-08-03 11:01 G 40886592.86 40886592.96 40886593.11 0.0060 0.0045

Pluto 107231-10-30 12:56 G 40886680.96 40886681.04 40886681.12 0.0060 0.0055

Venus 107232-01-09 10:47 G 40886751.88 40886751.95 40886752.02 0.3711 0.3285

Mars 107233-02-18 23:59 G 40887158.38 40887158.50 40887158.61 0.1691 0.0485

Jupiter 107235-07-13 03:35 G 40888032.57 40888032.65 40888032.72 0.0518 0.0415

Jupiter 107235-10-10 08:37 G 40888121.75 40888121.86 40888121.98 0.0515 0.0216

Venus 107236-01-05 01:11 G 40888208.45 40888208.55 40888208.65 0.3665 0.0666

Saturn 107237-06-17 05:01 G 40888737.59 40888737.71 40888737.83 0.0297 0.0122

Saturn 107237-09-13 17:16 G 40888826.10 40888826.22 40888826.35 0.0297 0.0056

Saturn 107237-12-11 05:30 G 40888914.65 40888914.73 40888914.81 0.0297 0.0230

Earth 107240-05-09 07:40 G 40889794.72 40889794.82 40889794.93 0.2652 0.0327

Moon 107240-05-09 08:23 G 40889794.74 40889794.85 40889794.96 0.2649 0.0398 *

Venus 107241-07-20 16:47 G 40890232.12 40890232.20 40890232.28 0.3662 0.2356

Jupiter 107241-11-25 00:13 G 40890359.34 40890359.51 40890359.67 0.0510 0.0197

Mars 107242-07-12 10:47 G 40890588.83 40890588.95 40890589.06 0.1698 0.0149

Jupiter 107247-07-29 13:25 G 40892431.93 40892432.06 40892432.19 0.0516 0.0068

Moon 107249-11-10 07:25 G 40893266.66 40893266.81 40893266.96 0.2682 0.0886

Earth 107249-11-10 09:20 G 40893266.73 40893266.89 40893267.05 0.2680 0.0587 *

Neptune 107250-09-14 21:06 G 40893575.34 40893575.38 40893575.43 0.0088 0.0082

Neptune 107250-12-11 22:32 G 40893663.37 40893663.44 40893663.51 0.0088 0.0075

Neptune 107251-03-09 23:59 G 40893751.41 40893751.50 40893751.58 0.0088 0.0068

Neptune 107251-06-06 00:56 G 40893839.46 40893839.54 40893839.64 0.0088 0.0062

Neptune 107251-09-02 02:23 G 40893927.50 40893927.60 40893927.71 0.0088 0.0055

Neptune 107251-11-29 03:35 G 40894015.55 40894015.65 40894015.77 0.0088 0.0048

Mars 107251-12-02 21:35 G 40894019.30 40894019.40 40894019.50 0.1705 0.0782

Neptune 107252-02-25 05:01 G 40894103.60 40894103.71 40894103.83 0.0088 0.0041

Neptune 107252-05-23 06:13 G 40894191.64 40894191.76 40894191.89 0.0088 0.0035

Saturn 107252-07-01 20:23 G 40894231.26 40894231.35 40894231.45 0.0263 0.0227

Neptune 107252-08-19 07:40 G 40894279.69 40894279.82 40894279.95 0.0088 0.0028

Saturn 107252-09-28 17:16 G 40894320.04 40894320.22 40894320.41 0.0263 0.0047

Neptune 107252-11-15 08:52 G 40894367.74 40894367.87 40894368.00 0.0088 0.0021

Saturn 107252-12-26 14:23 G 40894408.94 40894409.10 40894409.26 0.0264 0.0135

Mars 107253-01-03 10:47 G 40894416.81 40894416.95 40894417.08 0.1853 0.1087

Neptune 107253-02-11 10:18 G 40894455.80 40894455.93 40894456.06 0.0088 0.0014

Neptune 107253-05-10 11:30 G 40894543.85 40894543.98 40894544.11 0.0088 0.0008

Moon 107253-05-12 00:42 G 40894545.46 40894545.53 40894545.61 0.2644 0.1876

Earth 107253-05-12 00:56 G 40894545.46 40894545.54 40894545.61 0.2651 0.1876 *

Neptune 107253-08-06 12:56 G 40894631.90 40894632.04 40894632.17 0.0088 0.0003

Jupiter 107253-09-12 21:06 G 40894669.28 40894669.38 40894669.49 0.0509 0.0413

Neptune 107253-11-02 14:08 G 40894719.96 40894720.09 40894720.22 0.0088 0.0006

Jupiter 107253-12-12 09:06 G 40894759.84 40894759.88 40894759.93 0.0512 0.0494

Neptune 107254-01-29 15:20 G 40894808.01 40894808.14 40894808.27 0.0088 0.0013

Neptune 107254-04-27 16:47 G 40894896.07 40894896.20 40894896.33 0.0088 0.0019

Neptune 107254-07-24 17:59 G 40894984.12 40894984.25 40894984.38 0.0088 0.0026

Neptune 107254-10-20 19:11 G 40895072.18 40895072.30 40895072.43 0.0088 0.0033

Neptune 107255-01-16 20:23 G 40895160.24 40895160.35 40895160.47 0.0088 0.0039

Neptune 107255-04-14 21:35 G 40895248.30 40895248.40 40895248.52 0.0088 0.0046

Neptune 107255-07-11 22:47 G 40895336.36 40895336.45 40895336.57 0.0088 0.0053

Neptune 107255-10-08 00:13 G 40895424.42 40895424.51 40895424.61 0.0088 0.0059

Neptune 107256-01-04 01:25 G 40895512.48 40895512.56 40895512.65 0.0088 0.0066

Neptune 107256-04-01 02:37 G 40895600.55 40895600.61 40895600.69 0.0088 0.0073

Neptune 107256-06-28 04:04 G 40895688.62 40895688.67 40895688.73 0.0088 0.0079

Neptune 107256-09-24 05:01 G 40895776.70 40895776.71 40895776.75 0.0088 0.0086

Uranus 107257-03-16 06:13 G 40895949.71 40895949.76 40895949.83 0.0140 0.0124

Uranus 107257-06-12 09:49 G 40896037.82 40896037.91 40896038.00 0.0140 0.0104

Uranus 107257-09-08 13:11 G 40896125.95 40896126.05 40896126.16 0.0140 0.0084

Uranus 107257-12-05 16:47 G 40896214.08 40896214.20 40896214.32 0.0140 0.0064

Uranus 107258-03-03 20:08 G 40896302.22 40896302.34 40896302.47 0.0140 0.0044

Uranus 107258-05-30 23:44 G 40896390.36 40896390.49 40896390.62 0.0140 0.0024

Uranus 107258-08-27 03:06 G 40896478.50 40896478.63 40896478.76 0.0140 0.0004

Uranus 107258-11-23 06:28 G 40896566.64 40896566.77 40896566.91 0.0140 0.0017

Uranus 107259-02-19 09:49 G 40896654.79 40896654.91 40896655.05 0.0140 0.0037

Jupiter 107259-05-17 17:44 G 40896742.11 40896742.24 40896742.36 0.0516 0.0093

Uranus 107259-05-18 13:11 G 40896742.94 40896743.05 40896743.18 0.0140 0.0057

Uranus 107259-08-14 16:47 G 40896831.09 40896831.20 40896831.31 0.0140 0.0076

Uranus 107259-11-10 20:08 G 40896919.25 40896919.34 40896919.44 0.0141 0.0096

Uranus 107260-02-06 23:30 G 40897007.42 40897007.48 40897007.56 0.0141 0.0116

Earth 107260-05-05 02:08 G 40897095.56 40897095.59 40897095.62 0.2655 0.2509

Moon 107260-05-05 02:52 G 40897095.57 40897095.62 40897095.67 0.2658 0.2349 *

Uranus 107260-05-05 02:52 G 40897095.60 40897095.62 40897095.66 0.0141 0.0136 *

Mars 107261-04-24 08:23 G 40897449.79 40897449.85 40897449.91 0.1713 0.1435

Mars 107262-05-26 04:18 G 40897846.52 40897846.68 40897846.84 0.1843 0.0590

Mars 107263-03-30 12:56 G 40898154.95 40898155.04 40898155.12 0.1684 0.1177

Jupiter 107265-09-30 05:44 G 40899069.59 40899069.74 40899069.90 0.0512 0.0271

Saturn 107266-11-04 06:28 G 40899469.67 40899469.77 40899469.87 0.0298 0.0182

Saturn 107267-01-31 18:56 G 40899558.16 40899558.29 40899558.42 0.0298 0.0005

Saturn 107267-04-30 07:11 G 40899646.69 40899646.80 40899646.90 0.0297 0.0173

Jupiter 107271-03-05 21:49 G 40901052.30 40901052.41 40901052.52 0.0517 0.0254

Jupiter 107271-06-03 02:52 G 40901141.53 40901141.62 40901141.70 0.0514 0.0370

Mars 107272-08-19 23:44 G 40901585.38 40901585.49 40901585.60 0.1691 0.0562

Earth 107273-05-07 19:25 G 40901846.21 40901846.31 40901846.41 0.2653 0.0930

Moon 107273-05-07 19:54 G 40901846.22 40901846.33 40901846.43 0.2648 0.0903 *

Jupiter 107277-07-19 02:23 G 40903379.42 40903379.60 40903379.78 0.0510 0.0041

Venus 107281-07-12 15:35 G 40904834.06 40904834.15 40904834.23 0.3670 0.2217

Mars 107282-01-10 10:47 G 40905015.83 40905015.95 40905016.06 0.1698 0.0076

Saturn 107282-02-15 17:30 G 40905052.05 40905052.23 40905052.41 0.0264 0.0091

Saturn 107282-05-15 14:37 G 40905140.93 40905141.11 40905141.29 0.0264 0.0091

Jupiter 107282-12-23 01:40 G 40905362.50 40905362.57 40905362.65 0.0518 0.0422

Venus 107283-01-30 03:06 G 40905400.48 40905400.63 40905400.78 0.3708 0.0822

Jupiter 107283-03-22 06:56 G 40905451.67 40905451.79 40905451.91 0.0515 0.0210

Moon 107286-05-10 12:13 G 40906596.91 40906597.01 40906597.12 0.2646 0.0670

Earth 107286-05-10 12:28 G 40906596.92 40906597.02 40906597.13 0.2652 0.0640 *

Venus 107287-01-26 07:11 G 40906857.69 40906857.80 40906857.90 0.3667 0.0492

Jupiter 107289-05-06 22:47 G 40907689.28 40907689.45 40907689.62 0.0510 0.0187

Mars 107291-06-02 21:35 G 40908446.29 40908446.40 40908446.50 0.1705 0.0710

Mars 107292-07-04 11:30 G 40908843.85 40908843.98 40908844.10 0.1853 0.1248

Venus 107292-08-10 22:47 G 40908881.35 40908881.45 40908881.54 0.3664 0.1246

Jupiter 107295-01-08 11:30 G 40909761.86 40909761.98 40909762.11 0.0516 0.0058

Moon 107295-11-11 16:04 G 40910069.01 40910069.17 40910069.33 0.2687 0.0255

Earth 107295-11-11 16:04 G 40910069.01 40910069.17 40910069.34 0.2680 0.0164 *

Saturn 107296-03-23 09:35 G 40910201.81 40910201.90 40910201.99 0.0298 0.0217

Saturn 107296-06-19 22:04 G 40910290.29 40910290.42 40910290.55 0.0297 0.0038

Saturn 107296-09-16 10:18 G 40910378.82 40910378.93 40910379.05 0.0297 0.0139

Venus 107298-02-24 14:08 G 40910905.03 40910905.09 40910905.15 0.3661 0.2912

Uranus 107298-04-04 03:49 G 40910943.57 40910943.66 40910943.77 0.0138 0.0116

Uranus 107298-07-01 11:30 G 40911031.84 40911031.98 40911032.12 0.0138 0.0089

Uranus 107298-09-27 18:56 G 40911120.12 40911120.29 40911120.46 0.0138 0.0062

Uranus 107298-12-25 02:23 G 40911208.42 40911208.60 40911208.79 0.0138 0.0035

Uranus 107299-03-23 10:04 G 40911296.73 40911296.92 40911297.11 0.0138 0.0008

Moon 107299-05-13 05:01 G 40911347.64 40911347.71 40911347.77 0.2650 0.2019

Earth 107299-05-13 05:30 G 40911347.68 40911347.73 40911347.79 0.2650 0.2204 *

Uranus 107299-06-19 17:44 G 40911385.05 40911385.24 40911385.43 0.0138 0.0020

Uranus 107299-09-16 01:11 G 40911473.37 40911473.55 40911473.74 0.0138 0.0047

Uranus 107299-12-13 08:52 G 40911561.71 40911561.87 40911562.03 0.0138 0.0075

Uranus 107300-03-11 16:18 G 40911650.06 40911650.18 40911650.32 0.0137 0.0102

Uranus 107300-06-07 23:59 G 40911738.45 40911738.50 40911738.57 0.0137 0.0130

Mars 107300-10-24 08:23 G 40911876.78 40911876.85 40911876.92 0.1713 0.1356

Jupiter 107301-02-23 18:28 G 40911999.17 40911999.27 40911999.37 0.0509 0.0425

Jupiter 107301-05-25 06:13 G 40912089.70 40912089.76 40912089.82 0.0512 0.0480

Mars 107301-11-25 05:30 G 40912273.57 40912273.73 40912273.90 0.1843 0.0402

Mars 107302-09-29 12:42 G 40912581.96 40912582.03 40912582.11 0.1684 0.1250

Earth 107306-05-07 06:56 G 40913897.73 40913897.79 40913897.85 0.2655 0.2178

Moon 107306-05-07 07:25 G 40913897.74 40913897.81 40913897.87 0.2649 0.2081 *

Jupiter 107306-10-28 16:18 G 40914072.06 40914072.18 40914072.31 0.0517 0.0091

Saturn 107311-07-06 16:47 G 40915784.05 40915784.20 40915784.37 0.0263 0.0140

Saturn 107311-10-03 13:54 G 40915872.89 40915873.08 40915873.27 0.0263 0.0041

Saturn 107311-12-31 10:47 G 40915961.86 40915961.95 40915962.06 0.0264 0.0224

Mars 107312-02-19 23:44 G 40916012.39 40916012.49 40916012.60 0.1691 0.0640

Jupiter 107313-03-13 03:06 G 40916399.47 40916399.63 40916399.79 0.0512 0.0258

Jupiter 107318-08-16 20:37 G 40918382.25 40918382.36 40918382.47 0.0517 0.0250

Jupiter 107318-11-14 01:25 G 40918471.48 40918471.56 40918471.65 0.0514 0.0372

Moon 107319-05-09 23:44 G 40918648.39 40918648.49 40918648.60 0.2647 0.0688

Earth 107319-05-09 23:59 G 40918648.40 40918648.50 40918648.61 0.2653 0.0610 *

Mars 107321-07-12 10:47 G 40919442.83 40919442.95 40919443.06 0.1698 0.0052

Pluto 107324-08-31 07:11 G 40920588.74 40920588.80 40920588.87 0.0084 0.0073

Pluto 107324-11-27 08:23 G 40920676.76 40920676.85 40920676.96 0.0084 0.0054

Jupiter 107324-12-30 00:13 G 40920709.32 40920709.51 40920709.69 0.0511 0.0040

Pluto 107325-02-23 09:35 G 40920764.79 40920764.90 40920765.03 0.0084 0.0035

Pluto 107325-05-22 10:47 G 40920852.83 40920852.95 40920853.09 0.0084 0.0017

Saturn 107325-08-11 10:47 G 40920933.91 40920933.95 40920933.99 0.0298 0.0283

Pluto 107325-08-18 12:13 G 40920940.87 40920941.01 40920941.14 0.0084 0.0003

Saturn 107325-11-07 23:16 G 40921022.35 40921022.47 40921022.59 0.0298 0.0103

Pluto 107325-11-14 13:25 G 40921028.93 40921029.06 40921029.19 0.0084 0.0020

Saturn 107326-02-04 11:30 G 40921110.86 40921110.98 40921111.11 0.0298 0.0075

Pluto 107326-02-10 14:23 G 40921116.99 40921117.10 40921117.22 0.0084 0.0038

Saturn 107326-05-03 23:44 G 40921199.43 40921199.49 40921199.56 0.0297 0.0251

Pluto 107326-05-09 15:35 G 40921205.06 40921205.15 40921205.25 0.0084 0.0057

Pluto 107326-08-05 16:47 G 40921293.15 40921293.20 40921293.26 0.0083 0.0075

Jupiter 107330-06-05 00:42 G 40922692.45 40922692.53 40922692.61 0.0518 0.0412

Jupiter 107330-09-02 05:44 G 40922781.63 40922781.74 40922781.86 0.0515 0.0218

Mars 107330-12-02 21:35 G 40922873.29 40922873.40 40922873.50 0.1705 0.0632

Mars 107332-01-04 12:28 G 40923270.92 40923271.02 40923271.13 0.1853 0.1431

Moon 107332-05-11 16:32 G 40923399.09 40923399.19 40923399.29 0.2654 0.0884

Earth 107332-05-11 17:16 G 40923399.12 40923399.22 40923399.32 0.2651 0.0965 *

Venus 107332-08-03 21:20 G 40923483.35 40923483.39 40923483.42 0.3673 0.3388

Neptune 107334-11-15 00:56 G 40924316.47 40924316.54 40924316.64 0.0089 0.0080

Neptune 107335-02-11 04:32 G 40924404.58 40924404.69 40924404.82 0.0089 0.0070

Neptune 107335-05-10 08:08 G 40924492.71 40924492.84 40924493.00 0.0089 0.0060

Neptune 107335-08-06 11:44 G 40924580.85 40924580.99 40924581.17 0.0089 0.0050

Neptune 107335-11-02 15:49 G 40924668.98 40924669.16 40924669.33 0.0089 0.0039

Neptune 107336-01-29 19:25 G 40924757.13 40924757.31 40924757.50 0.0089 0.0028

Neptune 107336-04-26 23:01 G 40924845.28 40924845.46 40924845.66 0.0089 0.0018

Neptune 107336-07-24 02:52 G 40924933.43 40924933.62 40924933.81 0.0089 0.0008

Jupiter 107336-10-17 20:52 G 40925019.21 40925019.37 40925019.55 0.0510 0.0184

Neptune 107336-10-20 06:28 G 40925021.58 40925021.77 40925021.97 0.0089 0.0003

Neptune 107337-01-16 10:04 G 40925109.73 40925109.92 40925110.12 0.0089 0.0013

Neptune 107337-04-14 13:54 G 40925197.89 40925198.08 40925198.27 0.0089 0.0023

Neptune 107337-07-11 17:44 G 40925286.06 40925286.24 40925286.42 0.0089 0.0034

Neptune 107337-10-07 21:06 G 40925374.22 40925374.38 40925374.56 0.0089 0.0045

Neptune 107338-01-04 00:56 G 40925462.39 40925462.54 40925462.70 0.0089 0.0055

Venus 107338-02-17 12:56 G 40925506.95 40925507.04 40925507.13 0.3669 0.1628

Neptune 107338-04-02 04:32 G 40925550.57 40925550.69 40925550.84 0.0089 0.0066

Neptune 107338-06-29 08:23 G 40925638.76 40925638.85 40925638.96 0.0089 0.0076

Neptune 107338-09-25 11:44 G 40925726.97 40925726.99 40925727.07 0.0089 0.0087

Venus 107339-09-07 05:16 G 40926073.57 40926073.72 40926073.87 0.3709 0.0967

Mars 107340-04-24 08:23 G 40926303.77 40926303.85 40926303.92 0.1713 0.1280

Saturn 107340-11-22 16:32 G 40926516.06 40926516.19 40926516.32 0.0263 0.0188

Uranus 107341-01-08 10:04 G 40926562.91 40926562.92 40926562.93 0.0140 0.0139

Saturn 107341-02-19 13:25 G 40926604.87 40926605.06 40926605.25 0.0264 0.0008

Uranus 107341-04-06 13:40 G 40926651.00 40926651.07 40926651.13 0.0140 0.0119

Saturn 107341-05-19 10:18 G 40926693.80 40926693.93 40926694.08 0.0264 0.0175

Mars 107341-05-26 06:28 G 40926700.60 40926700.77 40926700.94 0.1843 0.0241

Uranus 107341-07-03 17:01 G 40926739.12 40926739.21 40926739.30 0.0140 0.0099

Uranus 107341-09-29 20:23 G 40926827.25 40926827.35 40926827.46 0.0140 0.0079

Earth 107341-11-12 23:01 G 40926871.31 40926871.46 40926871.62 0.2680 0.0910

Moon 107341-11-13 00:56 G 40926871.40 40926871.54 40926871.69 0.2681 0.1217 *

Uranus 107341-12-26 23:59 G 40926915.38 40926915.50 40926915.62 0.0140 0.0059

Uranus 107342-03-25 03:20 G 40927003.52 40927003.64 40927003.77 0.0140 0.0040

Mars 107342-03-30 12:42 G 40927008.96 40927009.03 40927009.10 0.1684 0.1329

Uranus 107342-06-21 06:56 G 40927091.66 40927091.79 40927091.92 0.0140 0.0020

Jupiter 107342-06-21 10:04 G 40927091.79 40927091.92 40927092.04 0.0516 0.0057 *

Uranus 107342-09-17 10:18 G 40927179.80 40927179.93 40927180.06 0.0140 0.0001

Uranus 107342-12-14 13:40 G 40927267.94 40927268.07 40927268.20 0.0140 0.0021

Uranus 107343-03-12 17:16 G 40927356.09 40927356.22 40927356.34 0.0140 0.0041

Uranus 107343-06-08 20:37 G 40927444.24 40927444.36 40927444.48 0.0140 0.0060

Venus 107343-09-03 04:32 G 40927530.59 40927530.69 40927530.79 0.3666 0.0112

Uranus 107343-09-04 23:59 G 40927532.39 40927532.50 40927532.61 0.0141 0.0080

Uranus 107343-12-02 03:20 G 40927620.55 40927620.64 40927620.74 0.0141 0.0100

Uranus 107344-02-28 06:56 G 40927708.72 40927708.79 40927708.85 0.0141 0.0120

Uranus 107344-05-26 10:04 G 40927796.92 40927796.92 40927796.94 0.0141 0.0140

Moon 107345-05-14 10:04 G 40928149.89 40928149.92 40928149.96 0.2656 0.2490

Earth 107345-05-14 10:18 G 40928149.90 40928149.93 40928149.96 0.2650 0.2522 *

Jupiter 107348-08-05 17:30 G 40929329.13 40929329.23 40929329.34 0.0509 0.0407

Jupiter 107348-11-04 05:16 G 40929419.68 40929419.72 40929419.76 0.0512 0.0497

Venus 107349-03-18 20:08 G 40929554.25 40929554.34 40929554.43 0.3663 0.1804

Mars 107351-08-20 23:44 G 40930439.39 40930439.49 40930439.59 0.1691 0.0716

Moon 107352-05-07 11:01 G 40930699.89 40930699.96 40930700.04 0.2650 0.1991

Earth 107352-05-07 11:44 G 40930699.91 40930699.99 40930700.06 0.2654 0.1850 *

Jupiter 107354-04-09 14:37 G 40931401.98 40931402.11 40931402.24 0.0517 0.0097

Venus 107354-10-02 11:30 G 40931577.95 40931577.98 40931578.01 0.3660 0.3469

Saturn 107355-03-28 01:54 G 40931754.47 40931754.58 40931754.70 0.0298 0.0144

Saturn 107355-06-24 14:23 G 40931842.97 40931843.10 40931843.23 0.0297 0.0034

Saturn 107355-09-21 02:37 G 40931931.52 40931931.61 40931931.70 0.0297 0.0210

Jupiter 107360-08-23 00:28 G 40933729.36 40933729.52 40933729.68 0.0511 0.0250

Mars 107361-01-10 10:32 G 40933869.83 40933869.94 40933870.06 0.1698 0.0094

Moon 107365-05-10 04:18 G 40935450.57 40935450.68 40935450.78 0.2656 0.0328

Earth 107365-05-10 04:47 G 40935450.59 40935450.70 40935450.81 0.2653 0.0278 *

Jupiter 107366-01-26 19:25 G 40935712.20 40935712.31 40935712.42 0.0517 0.0245

Jupiter 107366-04-26 00:13 G 40935801.43 40935801.51 40935801.60 0.0514 0.0378

Saturn 107370-04-11 15:49 G 40937248.09 40937248.16 40937248.24 0.0263 0.0238

Mars 107370-06-02 21:35 G 40937300.29 40937300.40 40937300.51 0.1705 0.0549

Saturn 107370-07-09 12:42 G 40937336.84 40937337.03 40937337.21 0.0263 0.0059

Saturn 107370-10-06 09:35 G 40937425.73 40937425.90 40937426.07 0.0263 0.0122

Mars 107371-07-05 13:25 G 40937697.97 40937698.06 40937698.14 0.1853 0.1591

Jupiter 107372-06-10 21:35 G 40938039.22 40938039.40 40938039.58 0.0511 0.0031

Earth 107374-11-10 20:52 G 40938922.29 40938922.37 40938922.46 0.2679 0.2234

Moon 107374-11-10 22:32 G 40938922.33 40938922.44 40938922.56 0.2677 0.1861 *

Jupiter 107377-11-14 23:44 G 40940022.41 40940022.49 40940022.57 0.0518 0.0404

Jupiter 107378-02-12 04:47 G 40940111.59 40940111.70 40940111.82 0.0515 0.0225

Moon 107378-05-12 21:49 G 40940201.32 40940201.41 40940201.51 0.2658 0.1237

Earth 107378-05-12 22:04 G 40940201.32 40940201.42 40940201.51 0.2651 0.1296 *

Mars 107379-10-24 08:23 G 40940730.77 40940730.85 40940730.93 0.1712 0.1200

Mars 107380-11-24 07:11 G 40941127.63 40941127.80 40941127.97 0.1844 0.0091

Mars 107381-09-28 12:42 G 40941435.97 40941436.03 40941436.09 0.1684 0.1413

Uranus 107382-01-27 03:35 G 40941556.63 40941556.65 40941556.69 0.0138 0.0136

Uranus 107382-04-25 11:16 G 40941644.86 40941644.97 40941645.09 0.0138 0.0109

Uranus 107382-07-22 18:42 G 40941733.13 40941733.28 40941733.44 0.0138 0.0082

Uranus 107382-10-19 02:08 G 40941821.42 40941821.59 40941821.77 0.0138 0.0055

Uranus 107383-01-15 09:49 G 40941909.72 40941909.91 40941910.10 0.0138 0.0028

Uranus 107383-04-13 17:30 G 40941998.03 40941998.23 40941998.42 0.0138 0.0003

Uranus 107383-07-11 00:56 G 40942086.35 40942086.54 40942086.73 0.0138 0.0027

Uranus 107383-10-07 08:23 G 40942174.68 40942174.85 40942175.03 0.0138 0.0055

Uranus 107384-01-03 16:18 G 40942263.02 40942263.18 40942263.33 0.0138 0.0082

Jupiter 107384-03-29 18:56 G 40942349.12 40942349.29 40942349.46 0.0510 0.0183

Uranus 107384-03-31 23:30 G 40942351.38 40942351.48 40942351.61 0.0137 0.0110

Uranus 107384-06-28 07:25 G 40942439.80 40942439.81 40942439.83 0.0137 0.0137

Saturn 107384-08-14 02:37 G 40942486.52 40942486.61 40942486.70 0.0298 0.0215

Saturn 107384-11-10 15:06 G 40942575.00 40942575.13 40942575.26 0.0298 0.0036

Saturn 107385-02-07 03:20 G 40942663.53 40942663.64 40942663.76 0.0298 0.0143

Earth 107387-11-14 05:59 G 40943673.63 40943673.75 40943673.88 0.2681 0.1669

Moon 107387-11-14 06:56 G 40943673.66 40943673.79 40943673.91 0.2674 0.1664 *

Venus 107389-03-10 18:42 G 40944156.22 40944156.28 40944156.35 0.3672 0.2790

Jupiter 107389-12-01 09:06 G 40944421.76 40944421.88 40944422.01 0.0516 0.0071

Mars 107390-04-16 01:25 G 40944557.50 40944557.56 40944557.62 0.1834 0.1697

Venus 107390-09-27 22:04 G 40944722.33 40944722.42 40944722.51 0.3705 0.3000

Mars 107391-02-18 23:44 G 40944866.39 40944866.49 40944866.59 0.1691 0.0795

Venus 107394-09-24 10:18 G 40946179.84 40946179.93 40946180.03 0.3669 0.1050

Jupiter 107396-01-16 16:18 G 40946659.06 40946659.18 40946659.29 0.0509 0.0399

Venus 107396-04-13 07:40 G 40946746.72 40946746.82 40946746.92 0.3710 0.2808

Jupiter 107396-04-16 03:49 G 40946749.64 40946749.66 40946749.69 0.0512 0.0506

Moon 107398-05-08 15:49 G 40947502.08 40947502.16 40947502.25 0.2658 0.1654

Earth 107398-05-08 16:18 G 40947502.10 40947502.18 40947502.27 0.2654 0.1528 *

Saturn 107399-11-26 11:30 G 40948068.81 40948068.98 40948069.16 0.0263 0.0113

Saturn 107400-02-23 08:23 G 40948157.67 40948157.85 40948158.04 0.0264 0.0068

Venus 107400-04-10 02:08 G 40948203.48 40948203.59 40948203.69 0.3665 0.0700

Saturn 107400-05-23 05:30 G 40948246.68 40948246.73 40948246.79 0.0264 0.0251

Mars 107400-07-12 10:32 G 40948296.83 40948296.94 40948297.05 0.1698 0.0168

Jupiter 107401-09-20 13:11 G 40948731.93 40948732.05 40948732.18 0.0517 0.0096

Venus 107405-10-24 17:30 G 40950227.16 40950227.23 40950227.31 0.3662 0.2374

Jupiter 107408-02-04 00:13 G 40951059.36 40951059.51 40951059.67 0.0511 0.0275

Mars 107409-12-02 21:20 G 40951727.28 40951727.39 40951727.50 0.1705 0.0473

Mars 107411-01-04 14:23 G 40952125.05 40952125.10 40952125.14 0.1854 0.1765

Earth 107411-05-12 09:35 G 40952252.79 40952252.90 40952253.01 0.2652 0.0058

Moon 107411-05-12 09:49 G 40952252.80 40952252.91 40952253.01 0.2659 0.0141 *

Jupiter 107413-07-09 17:59 G 40953042.13 40953042.25 40953042.36 0.0518 0.0247

Jupiter 107413-10-06 22:47 G 40953131.37 40953131.45 40953131.54 0.0515 0.0377

Saturn 107414-01-02 05:01 G 40953218.65 40953218.71 40953218.78 0.0298 0.0260

Saturn 107414-03-31 17:44 G 40953307.11 40953307.24 40953307.36 0.0298 0.0080

Saturn 107414-06-28 05:59 G 40953395.63 40953395.75 40953395.87 0.0297 0.0098

Saturn 107414-09-24 18:13 G 40953484.21 40953484.26 40953484.31 0.0297 0.0273

Neptune 107415-03-17 19:25 G 40953658.30 40953658.31 40953658.35 0.0088 0.0086

Neptune 107415-06-13 20:52 G 40953746.32 40953746.37 40953746.44 0.0088 0.0079

Neptune 107415-09-09 22:04 G 40953834.36 40953834.42 40953834.51 0.0088 0.0072

Neptune 107415-12-06 23:30 G 40953922.40 40953922.48 40953922.58 0.0088 0.0065

Neptune 107416-03-04 00:56 G 40954010.44 40954010.54 40954010.64 0.0088 0.0058

Neptune 107416-05-31 02:23 G 40954098.49 40954098.60 40954098.71 0.0088 0.0051

Neptune 107416-08-27 03:20 G 40954186.54 40954186.64 40954186.77 0.0088 0.0045

Neptune 107416-11-23 04:47 G 40954274.59 40954274.70 40954274.83 0.0088 0.0038

Neptune 107417-02-19 06:13 G 40954362.64 40954362.76 40954362.89 0.0088 0.0031

Neptune 107417-05-18 07:25 G 40954450.69 40954450.81 40954450.94 0.0088 0.0025

Neptune 107417-08-14 08:52 G 40954538.74 40954538.87 40954539.00 0.0088 0.0018

Neptune 107417-11-10 10:04 G 40954626.79 40954626.92 40954627.06 0.0088 0.0011

Neptune 107418-02-06 11:30 G 40954714.84 40954714.98 40954715.11 0.0088 0.0004

Neptune 107418-05-05 12:42 G 40954802.90 40954803.03 40954803.16 0.0088 0.0003

Neptune 107418-08-01 13:54 G 40954890.95 40954891.08 40954891.22 0.0088 0.0010

Neptune 107418-10-28 15:20 G 40954979.01 40954979.14 40954979.27 0.0088 0.0016

Neptune 107419-01-24 16:32 G 40955067.06 40955067.19 40955067.32 0.0088 0.0023

Neptune 107419-04-22 17:44 G 40955155.12 40955155.24 40955155.37 0.0088 0.0030

Mars 107419-04-25 08:08 G 40955157.76 40955157.84 40955157.93 0.1712 0.1122

Neptune 107419-07-19 19:11 G 40955243.18 40955243.30 40955243.42 0.0088 0.0036

Neptune 107419-10-15 20:23 G 40955331.24 40955331.35 40955331.47 0.0088 0.0043

Jupiter 107419-11-22 19:25 G 40955369.13 40955369.31 40955369.50 0.0511 0.0030

Neptune 107420-01-11 21:20 G 40955419.30 40955419.39 40955419.51 0.0088 0.0050

Neptune 107420-04-08 22:47 G 40955507.36 40955507.45 40955507.56 0.0088 0.0056

Mars 107420-05-26 08:08 G 40955554.67 40955554.84 40955555.01 0.1844 0.0095

Neptune 107420-07-05 23:59 G 40955595.42   40955595.50   40955595.60 0.0088 0.0063

Neptune 107420-10-02 01:25 G 40955683.48   40955683.56   40955683.64 0.0088 0.0069

Moon   107420-11-12 03:49 G 40955724.52   40955724.66   40955724.79 0.2672 0.1466

Earth   107420-11-12 03:49 G 40955724.53   40955724.66   40955724.80 0.2679 0.1487 *

Neptune 107420-12-29 02:37 G 40955771.55   40955771.61   40955771.68 0.0088 0.0076

Neptune 107421-03-27 03:35 G 40955859.63   40955859.65   40955859.71 0.0088 0.0083

Mars   107421-03-30 12:28 G 40955862.97   40955863.02   40955863.08 0.1684 0.1486

Earth   107424-05-14 02:37 G 40957003.53   40957003.61   40957003.70 0.2651 0.1617

Moon   107424-05-14 03:20 G 40957003.56   40957003.64   40957003.72 0.2652 0.1700 *

Uranus   107425-01-29 17:16 G 40957264.19   40957264.22   40957264.25 0.0140 0.0135

Uranus   107425-04-27 20:37 G 40957352.29   40957352.36   40957352.44 0.0140 0.0115

Jupiter 107425-04-27 22:47 G 40957352.36   40957352.45   40957352.53 0.0518 0.0395 *

Uranus   107425-07-25 00:13 G 40957440.41   40957440.51   40957440.60 0.0140 0.0095

Jupiter 107425-07-26 03:49 G 40957441.55   40957441.66   40957441.77 0.0515 0.0234

Uranus   107425-10-21 03:35 G 40957528.54   40957528.65   40957528.76 0.0140 0.0075

Uranus   107426-01-17 06:56 G 40957616.67   40957616.79   40957616.92 0.0140 0.0056

Uranus   107426-04-15 10:32 G 40957704.81   40957704.94   40957705.07 0.0140 0.0035

Uranus   107426-07-12 13:54 G 40957792.95   40957793.08   40957793.22 0.0140 0.0016

Uranus   107426-10-08 17:30 G 40957881.09   40957881.23   40957881.36 0.0140 0.0006

Uranus   107427-01-04 20:52 G 40957969.24   40957969.37   40957969.50 0.0140 0.0025

Uranus   107427-04-03 00:13 G 40958057.39   40958057.51   40958057.64 0.0140 0.0044

Uranus   107427-06-30 03:35 G 40958145.54   40958145.65   40958145.77 0.0140 0.0064

Uranus   107427-09-26 06:56 G 40958233.69   40958233.79   40958233.90 0.0141 0.0084

Uranus   107427-12-23 10:32 G 40958321.85   40958321.94   40958322.03 0.0141 0.0104

Uranus   107428-03-20 13:54 G 40958410.02   40958410.08   40958410.14 0.0141 0.0124

Saturn   107429-04-15 10:47 G 40958800.81   40958800.95   40958801.10 0.0263 0.0164

Saturn   107429-07-13 07:40 G 40958889.63   40958889.82   40958890.01 0.0263 0.0016

Saturn   107429-10-10 04:32 G 40958978.57   40958978.69   40958978.82 0.0263 0.0198

Mars   107429-10-16 02:08 G 40958984.50   40958984.59   40958984.68 0.1834 0.1554

Mars   107430-08-20 23:44 G 40959293.39   40959293.49   40959293.58 0.1691 0.0879

Jupiter 107431-09-10 16:47 G 40959679.03 40959679.20 40959679.37 0.0510 0.0187

Moon 107433-11-15 11:16 G 40960475.88 40960475.97 40960476.07 0.2678 0.2142

Earth 107433-11-15 12:56 G 40960475.97 40960476.04 40960476.11 0.2681 0.2414 *

Jupiter 107437-05-14 08:23 G 40961751.72 40961751.85 40961751.97 0.0516 0.0081

Mars 107440-01-11 10:32 G 40962723.83 40962723.94 40962724.05 0.1697 0.0250

Jupiter 107443-06-29 14:23 G 40963988.98 40963989.10 40963989.21 0.0509 0.0396

Saturn 107443-08-18 17:59 G 40964039.14 40964039.25 40964039.36 0.0298 0.0155

Jupiter 107443-09-28 01:54 G 40964079.58 40964079.58 40964079.60 0.0512 0.0511

Saturn 107443-11-15 06:28 G 40964127.64 40964127.77 40964127.90 0.0298 0.0024

Saturn 107444-02-11 18:42 G 40964216.19 40964216.28 40964216.38 0.0298 0.0201

Earth 107444-05-09 21:06 G 40964304.29 40964304.38 40964304.48 0.2654 0.1199

Moon 107444-05-09 21:35 G 40964304.30 40964304.40 40964304.49 0.2659 0.1095 *

Venus 107445-10-16 16:18 G 40964829.10 40964829.18 40964829.26 0.3671 0.2195

Venus 107447-05-06 00:13 G 40965395.37 40965395.51 40965395.66 0.3707 0.1224

Jupiter 107449-03-02 12:42 G 40966061.90 40966062.03 40966062.16 0.0516 0.0076

Mars 107449-06-02 21:20 G 40966154.28 40966154.39 40966154.50 0.1705 0.0393

Venus 107451-05-02 07:54 G 40966852.73 40966852.83 40966852.93 0.3668 0.0453

Jupiter 107455-07-16 23:01 G 40968389.31 40968389.46 40968389.61 0.0511 0.0287

Venus 107456-11-14 23:30 G 40968876.38 40968876.48 40968876.58 0.3665 0.1258

Earth 107457-05-12 14:23 G 40969054.99 40969055.10 40969055.20 0.2652 0.0383

Moon 107457-05-12 14:52 G 40969055.02 40969055.12 40969055.23 0.2652 0.0444 *

Saturn 107458-09-02 09:06 G 40969532.79 40969532.88 40969532.99 0.0263 0.0222

Mars 107458-10-24 08:08 G 40969584.75 40969584.84 40969584.93 0.1712 0.1042

Saturn 107458-11-30 05:59 G 40969621.56 40969621.75 40969621.94 0.0263 0.0043

Saturn 107459-02-27 02:52 G 40969710.46 40969710.62 40969710.79 0.0263 0.0138

Mars 107459-11-25 09:06 G 40969981.71 40969981.88 40969982.05 0.1844 0.0264

Mars 107460-09-28 12:28 G 40970289.98 40970290.02 40970290.06 0.1683 0.1568

Jupiter 107460-12-19 16:47 G 40970372.08 40970372.20 40970372.31 0.0517 0.0240

Jupiter 107461-03-18 21:35 G 40970461.32 40970461.40 40970461.49 0.0515 0.0383

Venus 107462-05-31 15:06 G 40970900.07 40970900.13 40970900.19 0.3661 0.2937

Uranus 107466-02-17 10:18 G 40972257.88 40972257.93 40972258.00 0.0138 0.0131

Uranus 107466-05-16 17:44 G 40972346.13 40972346.24 40972346.37 0.0138 0.0104

Uranus 107466-08-13 01:25 G 40972434.41 40972434.56 40972434.72 0.0138 0.0077

Uranus 107466-11-09 08:52 G 40972522.70 40972522.87 40972523.05 0.0138 0.0050

Moon 107466-11-13 09:06 G 40972526.73 40972526.88 40972527.02 0.2678 0.1128

Earth 107466-11-13 10:47 G 40972526.79 40972526.95 40972527.10 0.2679 0.0744 *

Uranus 107467-02-05 16:32 G 40972611.00 40972611.19 40972611.38 0.0138 0.0022

Jupiter 107467-05-04 19:25 G 40972699.13 40972699.31 40972699.50 0.0511 0.0062

Uranus 107467-05-04 23:59 G 40972699.31 40972699.50 40972699.70 0.0138 0.0006 *

Uranus 107467-08-01 07:25 G 40972787.63 40972787.81 40972788.01 0.0138 0.0033

Uranus 107467-10-28 15:06 G 40972875.96 40972876.13 40972876.31 0.0138 0.0060

Uranus 107468-01-24 22:32 G 40972964.31 40972964.44 40972964.60 0.0138 0.0088

Mars 107468-03-15 18:42 G 40973015.28 40973015.28 40973015.29 0.1720 0.1710

Uranus 107468-04-22 06:13 G 40973052.67 40973052.76 40973052.88 0.0137 0.0115

Mars 107469-04-16 03:06 G 40973411.52 40973411.63 40973411.74 0.1835 0.1377

Mars 107470-02-18 23:30 G 40973720.39 40973720.48 40973720.58 0.1690 0.0953

Earth 107470-05-15 07:25 G 40973805.74 40973805.81 40973805.88 0.2651 0.1937

Moon 107470-05-15 07:40 G 40973805.75 40973805.82 40973805.89 0.2644 0.2028 *

Jupiter 107472-10-07 21:20 G 40974682.31 40974682.39 40974682.47 0.0518 0.0393

Saturn 107473-01-04 20:08 G 40974771.25 40974771.34 40974771.43 0.0298 0.0205

Jupiter 107473-01-05 02:23 G 40974771.49 40974771.60 40974771.72 0.0515 0.0237

Saturn 107473-04-03 08:37 G 40974859.73 40974859.86 40974859.99 0.0298 0.0026

Saturn 107473-06-30 20:52 G 40974948.26 40974948.37 40974948.48 0.0297 0.0152

Pluto 107477-01-05 04:18 G 40976232.62 40976232.68 40976232.78 0.0060 0.0054

Pluto 107477-04-03 05:59 G 40976320.63 40976320.75 40976320.89 0.0060 0.0044

Earth 107477-05-08 08:37 G 40976355.83 40976355.86 40976355.90 0.2655 0.2449

Moon 107477-05-08 09:06 G 40976355.84 40976355.88 40976355.93 0.2659 0.2419 *

Pluto 107477-06-30 06:56 G 40976408.65 40976408.79 40976408.97 0.0060 0.0035

Pluto 107477-09-26 08:37 G 40976496.69 40976496.86 40976497.05 0.0060 0.0025

Pluto 107477-12-23 10:04 G 40976584.73 40976584.92 40976585.11 0.0060 0.0015

Pluto 107478-03-21 11:16 G 40976672.78 40976672.97 40976673.17 0.0060 0.0006

Pluto 107478-06-17 12:42 G 40976760.84 40976761.03 40976761.23 0.0060 0.0004

Pluto 107478-09-13 13:54 G 40976848.90 40976849.08 40976849.28 0.0060 0.0014

Pluto 107478-12-10 15:06 G 40976936.97 40976937.13 40976937.33 0.0060 0.0024

Jupiter 107479-02-20 14:52 G 40977008.95 40977009.12 40977009.29 0.0510 0.0183

Pluto 107479-03-08 16:18 G 40977025.04 40977025.18 40977025.36 0.0060 0.0034

Pluto 107479-06-04 17:59 G 40977113.13 40977113.25 40977113.39 0.0060 0.0044

Mars 107479-07-12 10:32 G 40977150.82 40977150.94 40977151.05 0.1698 0.0330

Pluto 107479-08-31 19:11 G 40977201.23 40977201.30 40977201.40 0.0060 0.0054

Jupiter 107484-10-24 07:25 G 40979081.68 40979081.81 40979081.94 0.0516 0.0093

Saturn 107488-04-18 05:16 G 40980353.54 40980353.72 40980353.89 0.0263 0.0095

Saturn 107488-07-16 01:54 G 40980442.41 40980442.58 40980442.77 0.0263 0.0086

Mars 107488-12-01 21:20 G 40980581.28 40980581.39 40980581.50 0.1705 0.0309

Earth 107490-05-11 01:54 G 40981106.48 40981106.58 40981106.68 0.2653 0.0866

Moon 107490-05-11 02:37 G 40981106.50 40981106.61 40981106.71 0.2652 0.0720 *

Jupiter 107490-12-09 12:13 G 40981318.90 40981319.01 40981319.13 0.0509 0.0395

Jupiter 107491-03-09 23:59 G 40981409.49 40981409.50 40981409.52 0.0512 0.0509

Jupiter 107496-08-12 11:59 G 40983391.87 40983392.00 40983392.13 0.0517 0.0061

Venus 107496-11-06 22:04 G 40983478.38 40983478.42 40983478.46 0.3673 0.3364

Mars 107498-04-24 08:08 G 40984011.75 40984011.84 40984011.93 0.1712 0.0963

Neptune 107499-05-16 20:08 G 40984399.29 40984399.34 40984399.41 0.0089 0.0085

Mars 107499-05-26 09:49 G 40984408.74 40984408.91 40984409.07 0.1845 0.0417

Neptune 107499-08-12 23:44 G 40984487.40 40984487.49 40984487.61 0.0089 0.0075

Neptune 107499-11-09 03:20 G 40984575.52 40984575.64 40984575.79 0.0089 0.0064

Neptune 107500-02-05 06:56 G 40984663.65 40984663.79 40984663.96 0.0089 0.0054

Mars 107500-03-30 12:27 G 40984717.00 40984717.02 40984717.04 0.1683 0.1650

Neptune 107500-05-04 10:47 G 40984751.79 40984751.95 40984752.12 0.0089 0.0044

Neptune 107500-07-31 14:23 G 40984839.93 40984840.10 40984840.29 0.0089 0.0034

Neptune 107500-10-27 17:59 G 40984928.07 40984928.25 40984928.45 0.0089 0.0024

Neptune 107501-01-23 21:49 G 40985016.22 40985016.41 40985016.61 0.0089 0.0013

Neptune 107501-04-22 01:39 G 40985104.37 40985104.57 40985104.76 0.0089 0.0003

Neptune 107501-07-19 05:15 G 40985192.53 40985192.72 40985192.92 0.0089 0.0008

Neptune 107501-10-15 08:51 G 40985280.69 40985280.87 40985281.07 0.0089 0.0018

Neptune 107502-01-11 12:42 G 40985368.85 40985369.03 40985369.21 0.0089 0.0029

Neptune 107502-04-09 16:03 G 40985457.01 40985457.17 40985457.36 0.0089 0.0040

Venus 107502-05-24 13:39 G 40985501.98 40985502.07 40985502.17 0.3670 0.1603

Saturn 107502-05-25 20:08 G 40985503.31 40985503.34 40985503.38 0.0299 0.0284

Neptune 107502-07-06 19:54 G 40985545.18 40985545.33 40985545.50 0.0089 0.0050

Saturn 107502-08-22 08:51 G 40985591.75 40985591.87 40985591.99 0.0298 0.0103

Neptune 107502-10-02 23:44 G 40985633.35 40985633.49 40985633.64 0.0089 0.0060

Saturn 107502-11-18 21:20 G 40985680.26 40985680.39 40985680.51 0.0298 0.0076

Jupiter 107502-12-27 21:20 G 40985719.24 40985719.39 40985719.54 0.0512 0.0293

Neptune 107502-12-30 03:06 G 40985721.53 40985721.63 40985721.77 0.0089 0.0071

Saturn 107503-02-15 09:35 G 40985768.83 40985768.90 40985768.97 0.0298 0.0252

Neptune 107503-03-28 07:11 G 40985809.73 40985809.80 40985809.89 0.0089 0.0081

Moon 107503-05-14 19:11 G 40985857.19 40985857.30 40985857.40 0.2645 0.0679

Earth 107503-05-14 18:56 G 40985857.19 40985857.29 40985857.40 0.2652 0.0715 *

Venus 107503-12-12 02:23 G 40986068.45 40986068.60 40986068.76 0.3708 0.0575

Mars 107507-09-15 18:42 G 40987442.25 40987442.28 40987442.32 0.1719 0.1627

Venus 107507-12-08 05:30 G 40987525.62 40987525.73 40987525.83 0.3667 0.0196

Jupiter 107508-06-01 16:18 G 40987702.06 40987702.18 40987702.30 0.0517 0.0218

Jupiter 107508-08-29 21:06 G 40987791.31 40987791.38 40987791.46 0.0514 0.0404

Mars 107508-10-16 04:03 G 40987838.55 40987838.67 40987838.80 0.1835 0.1204

Uranus 107509-02-20 00:13 G 40987965.47 40987965.51 40987965.56 0.0140 0.0131

Uranus 107509-05-19 03:49 G 40988053.58 40988053.66 40988053.74 0.0140 0.0111

Uranus 107509-08-15 07:11 G 40988141.70 40988141.80 40988141.90 0.0140 0.0091

Mars 107509-08-20 23:30 G 40988147.39 40988147.48 40988147.57 0.1690 0.1034

Uranus 107509-11-11 10:47 G 40988229.83 40988229.95 40988230.06 0.0140 0.0071

Uranus 107510-02-07 14:08 G 40988317.97 40988318.09 40988318.22 0.0140 0.0051

Uranus 107510-05-06 17:30 G 40988406.11 40988406.23 40988406.37 0.0140 0.0032

Uranus 107510-08-02 21:06 G 40988494.25 40988494.38 40988494.51 0.0140 0.0011

Uranus 107510-10-30 00:27 G 40988582.39 40988582.52 40988582.66 0.0140 0.0009

Uranus 107511-01-26 03:49 G 40988670.54 40988670.66 40988670.80 0.0140 0.0029

Uranus 107511-04-24 07:25 G 40988758.68 40988758.81 40988758.93 0.0140 0.0048

Uranus 107511-07-21 10:47 G 40988846.83 40988846.95 40988847.06 0.0140 0.0068

Uranus 107511-10-17 13:54 G 40988934.99 40988935.08 40988935.19 0.0141 0.0089

Uranus 107512-01-13 17:30 G 40989023.15 40989023.23 40989023.32 0.0141 0.0108

Uranus 107512-04-10 20:51 G 40989111.32 40989111.37 40989111.43 0.0141 0.0128

Moon 107512-11-14 17:15 G 40989329.06 40989329.22 40989329.38 0.2687 0.0111

Earth 107512-11-14 17:44 G 40989329.07 40989329.24 40989329.40 0.2680 0.0060 *

Venus 107513-06-22 20:51 G 40989549.29 40989549.37 40989549.46 0.3664 0.1835

Jupiter 107514-10-15 18:27 G 40990029.09 40990029.27 40990029.46 0.0511 0.0076

Moon 107516-05-16 11:44 G 40990607.93 40990607.99 40990608.04 0.2647 0.2185

Earth 107516-05-16 12:13 G 40990607.95 40990608.01 40990608.06 0.2651 0.2262 *

Saturn 107517-09-06 03:06 G 40991085.48 40991085.63 40991085.78 0.0263 0.0157

Saturn 107517-12-03 23:59 G 40991174.31 40991174.50 40991174.69 0.0263 0.0023

Saturn 107518-03-02 20:51 G 40991263.25 40991263.37 40991263.49 0.0263 0.0205

Venus 107519-01-06 12:27 G 40991572.99 40991573.02 40991573.05 0.3661 0.3489

Mars 107519-01-11 10:18 G 40991577.82 40991577.93 40991578.05 0.1697 0.0411

Jupiter 107520-03-20 20:23 G 40992012.26 40992012.35 40992012.43 0.0518 0.0383

Jupiter 107520-06-18 01:25 G 40992101.45 40992101.56 40992101.68 0.0515 0.0246

Earth 107523-05-10 13:25 G 40993158.00 40993158.06 40993158.12 0.2655 0.2121

Moon 107523-05-10 13:54 G 40993158.01 40993158.08 40993158.16 0.2650 0.1978 *

Jupiter 107526-08-03 15:20 G 40994338.96 40994339.14 40994339.31 0.0510 0.0148

Mars 107528-06-02 21:20 G 40995008.27 40995008.39 40995008.50 0.1704 0.0239

Saturn 107532-01-09 10:47 G 40996323.84 40996323.95 40996324.06 0.0298 0.0156

Jupiter 107532-04-06 06:13 G 40996411.64 40996411.76 40996411.89 0.0516 0.0098

Saturn 107532-04-06 23:15 G 40996412.34 40996412.47 40996412.60 0.0298 0.0024

Saturn 107532-07-04 11:30 G 40996500.89 40996500.98 40996501.08 0.0297 0.0200

Moon 107536-05-12 06:27 G 40997908.67 40997908.77 40997908.88 0.2647 0.0603

Earth 107536-05-12 06:42 G 40997908.67 40997908.78 40997908.88 0.2653 0.0538 *

Mars 107537-10-24 08:08 G 40998438.74 40998438.84 40998438.94 0.1712 0.0881

Jupiter 107538-05-22 10:47 G 40998648.83 40998648.95 40998649.07 0.0509 0.0387

Mars 107538-11-25 11:01 G 40998835.80 40998835.96 40998836.12 0.1845 0.0607

Jupiter 107544-01-24 11:15 G 41000721.84 41000721.97 41000722.09 0.0517 0.0049

Saturn 107547-01-24 02:23 G 41001817.49 41001817.60 41001817.72 0.0263 0.0208

Mars 107547-03-16 18:42 G 41001869.24 41001869.28 41001869.33 0.1719 0.1546

Saturn 107547-04-22 23:01 G 41001906.28 41001906.46 41001906.65 0.0263 0.0030

Saturn 107547-07-20 19:54 G 41001995.18 41001995.33 41001995.49 0.0263 0.0152

Mars 107548-04-16 04:47 G 41002265.56 41002265.70 41002265.84 0.1835 0.1058

Mars 107549-02-18 23:30 G 41002574.39 41002574.48 41002574.57 0.1690 0.1115

Moon 107549-05-14 23:15 G 41002659.37 41002659.47 41002659.57 0.2649 0.0986

Earth 107549-05-14 23:44 G 41002659.39 41002659.49 41002659.59 0.2652 0.1038 *

Uranus 107550-03-10 16:32 G 41002959.14 41002959.19 41002959.28 0.0138 0.0127

Uranus 107550-06-07 00:13 G 41003047.39 41003047.51 41003047.65 0.0138 0.0100

Jupiter 107550-06-08 19:25 G 41003049.16 41003049.31 41003049.46 0.0511 0.0295

Uranus 107550-09-03 07:39 G 41003135.67 41003135.82 41003135.99 0.0138 0.0073

Uranus 107550-11-30 15:20 G 41003223.96 41003224.14 41003224.32 0.0138 0.0045

Uranus 107551-02-26 23:01 G 41003312.27 41003312.46 41003312.65 0.0138 0.0018

Uranus 107551-05-26 06:27 G 41003400.58 41003400.77 41003400.96 0.0138 0.0009

Uranus 107551-08-22 13:54 G 41003488.90 41003489.08 41003489.27 0.0138 0.0037

Uranus 107551-11-18 21:20 G 41003577.23 41003577.39 41003577.57 0.0138 0.0065

Uranus 107552-02-15 05:01 G 41003665.58 41003665.71 41003665.86 0.0138 0.0092

Uranus 107552-05-13 12:56 G 41003753.94 41003754.04 41003754.13 0.0137 0.0119

Venus 107553-06-14 19:25 G 41004151.25 41004151.31 41004151.38 0.3672 0.2765

Venus 107555-01-01 19:25 G 41004717.24 41004717.31 41004717.37 0.3704 0.3344

Jupiter 107555-11-12 15:35 G 41005032.03 41005032.15 41005032.27 0.0517 0.0202

Jupiter 107556-02-09 20:37 G 41005121.29 41005121.36 41005121.43 0.0514 0.0419

Mars 107558-07-12 10:18 G 41006004.82 41006004.93 41006005.04 0.1697 0.0492

Earth 107558-11-16 00:27 G 41006131.37 41006131.52 41006131.68 0.2680 0.0742

Moon 107558-11-16 01:54 G 41006131.44 41006131.58 41006131.73 0.2684 0.1100 *

Venus 107558-12-29 11:15 G 41006174.87 41006174.97 41006175.07 0.3669 0.1013

Venus 107560-07-18 04:47 G 41006741.58 41006741.70 41006741.82 0.3709 0.2368

Saturn 107561-05-28 10:47 G 41007055.87 41007055.95 41007056.03 0.0298 0.0236

Saturn 107561-08-24 23:15 G 41007144.34 41007144.47 41007144.60 0.0298 0.0056

Saturn 107561-11-21 11:44 G 41007232.87 41007232.99 41007233.11 0.0298 0.0123

Jupiter 107562-03-27 17:01 G 41007359.02 41007359.21 41007359.39 0.0511 0.0083

Moon 107562-05-17 16:32 G 41007410.15 41007410.19 41007410.22 0.2656 0.2473

Earth 107562-05-17 16:47 G 41007410.19 41007410.20 41007410.22 0.2650 0.2592 *

Venus 107564-07-14 02:51 G 41008198.52 41008198.62 41008198.72 0.3666 0.0707

Jupiter 107567-08-31 19:54 G 41009342.24 41009342.33 41009342.43 0.0518 0.0360

Jupiter 107567-11-29 01:11 G 41009431.44 41009431.55 41009431.65 0.0515 0.0268

Mars 107567-12-02 21:20 G 41009435.27 41009435.39 41009435.50 0.1704 0.0166

Moon 107569-05-10 17:59 G 41009960.17 41009960.25 41009960.33 0.2648 0.1788

Earth 107569-05-10 18:13 G 41009960.18 41009960.26 41009960.34 0.2654 0.1793 *

Venus 107570-01-27 18:27 G 41010222.19 41010222.27 41010222.34 0.3663 0.2388

Pluto 107572-07-02 15:49 G 41011109.12 41011109.16 41011109.22 0.0084 0.0077

Pluto 107572-09-28 17:15 G 41011197.13 41011197.22 41011197.31 0.0084 0.0059

Pluto 107572-12-25 18:13 G 41011285.15 41011285.26 41011285.39 0.0084 0.0041

Pluto 107573-03-23 19:39 G 41011373.19 41011373.32 41011373.45 0.0084 0.0022

Pluto 107573-06-19 20:51 G 41011461.24 41011461.37 41011461.50 0.0084 0.0003

Pluto 107573-09-15 22:03 G 41011549.29 41011549.42 41011549.55 0.0084 0.0015

Pluto 107573-12-12 23:01 G 41011637.35 41011637.46 41011637.59 0.0084 0.0034

Jupiter 107574-01-13 14:08 G 41011668.92 41011669.09 41011669.27 0.0510 0.0133

Pluto 107574-03-11 00:13 G 41011725.41 41011725.51 41011725.62 0.0084 0.0052

Pluto 107574-06-07 01:25 G 41011813.49 41011813.56 41011813.64 0.0083 0.0070

Saturn 107576-09-08 20:51 G 41012638.19 41012638.37 41012638.54 0.0263 0.0094

Saturn 107576-12-06 17:30 G 41012727.05 41012727.23 41012727.41 0.0263 0.0087

Mars 107577-04-24 08:08 G 41012865.74 41012865.84 41012865.94 0.1712 0.0805

Mars 107578-05-26 11:44 G 41013262.84 41013262.99 41013263.15 0.1845 0.0771

Jupiter 107579-09-17 05:15 G 41013741.60 41013741.72 41013741.85 0.0516 0.0109

Neptune 107579-12-13 19:25 G 41013829.27 41013829.31 41013829.36 0.0088 0.0082

Neptune 107580-03-10 20:51 G 41013917.30 41013917.37 41013917.44 0.0088 0.0075

Neptune 107580-06-06 21:49 G 41014005.34 41014005.41 41014005.51 0.0088 0.0069

Neptune 107580-09-02 23:15 G 41014093.39 41014093.47 41014093.58 0.0088 0.0062

Neptune 107580-11-30 00:42 G 41014181.43 41014181.53 41014181.64 0.0088 0.0055

Neptune 107581-02-26 02:08 G 41014269.48 41014269.59 41014269.70 0.0088 0.0048

Neptune 107581-05-25 03:35 G 41014357.53 41014357.65 41014357.76 0.0088 0.0041

Neptune 107581-08-21 04:32 G 41014445.58 41014445.69 41014445.82 0.0088 0.0035

Neptune 107581-11-17 05:59 G 41014533.63 41014533.75 41014533.88 0.0088 0.0028

Neptune 107582-02-13 07:25 G 41014621.68 41014621.81 41014621.94 0.0088 0.0021

Neptune 107582-05-12 08:37 G 41014709.73 41014709.86 41014710.00 0.0088 0.0014

Moon 107582-05-13 10:47 G 41014710.84 41014710.95 41014711.05 0.2653 0.0376

Earth 107582-05-13 11:30 G 41014710.87 41014710.98 41014711.08 0.2653 0.0227 *

Neptune 107582-08-08 10:03 G 41014797.79 41014797.92 41014798.05 0.0088 0.0008

Neptune 107582-11-04 11:15 G 41014885.84 41014885.97 41014886.11 0.0088 0.0002

Neptune 107583-01-31 12:42 G 41014973.89 41014974.03 41014974.16 0.0088 0.0006

Neptune 107583-04-29 13:54 G 41015061.95 41015062.08 41015062.21 0.0088 0.0013

Neptune 107583-07-26 15:06 G 41015150.00 41015150.13 41015150.26 0.0088 0.0019

Neptune 107583-10-22 16:18 G 41015238.06 41015238.18 41015238.31 0.0088 0.0026

Neptune 107584-01-18 17:44 G 41015326.12 41015326.24 41015326.36 0.0088 0.0033

Neptune 107584-04-15 18:42 G 41015414.18 41015414.28 41015414.41 0.0088 0.0040

Neptune 107584-07-12 20:08 G 41015502.23 41015502.34 41015502.46 0.0088 0.0046

Neptune 107584-10-08 21:20 G 41015590.29 41015590.39 41015590.50 0.0088 0.0053

Neptune 107585-01-04 22:47 G 41015678.36 41015678.45 41015678.55 0.0088 0.0059

Neptune 107585-04-02 23:59 G 41015766.42 41015766.50 41015766.59 0.0088 0.0066

Neptune 107585-06-30 01:11 G 41015854.48 41015854.55 41015854.63 0.0088 0.0073

Neptune 107585-09-26 02:37 G 41015942.55 41015942.61 41015942.66 0.0088 0.0079

Jupiter 107585-11-01 11:01 G 41015978.84 41015978.96 41015979.10 0.0509 0.0351

Neptune 107585-12-23 03:35 G 41016030.64 41016030.65 41016030.69 0.0088 0.0086

Mars 107586-09-14 18:42 G 41016296.22 41016296.28 41016296.34 0.1719 0.1468

Mars 107587-10-16 05:44 G 41016692.59 41016692.74 41016692.89 0.1835 0.0881

Mars 107588-08-19 23:30 G 41017001.40 41017001.48 41017001.56 0.1690 0.1193

Saturn 107590-10-15 12:27 G 41017788.00 41017788.02 41017788.05 0.0298 0.0290

Saturn 107591-01-12 01:11 G 41017876.43 41017876.55 41017876.67 0.0298 0.0110

Saturn 107591-04-10 13:25 G 41017964.94 41017965.06 41017965.19 0.0298 0.0070

Jupiter 107591-07-06 10:03 G 41018051.79 41018051.92 41018052.04 0.0517 0.0043

Saturn 107591-07-08 01:54 G 41018053.51 41018053.58 41018053.65 0.0297 0.0245

Earth 107591-11-13 22:32 G 41018182.37 41018182.44 41018182.51 0.2679 0.2384

Moon 107591-11-14 00:27 G 41018182.42 41018182.52 41018182.61 0.2680 0.2144 *

Uranus 107593-03-12 07:11 G 41018666.76 41018666.80 41018666.87 0.0140 0.0127

Uranus 107593-06-08 10:47 G 41018754.87 41018754.95 41018755.04 0.0140 0.0107

Uranus 107593-09-04 14:08 G 41018843.00 41018843.09 41018843.21 0.0140 0.0087

Uranus 107593-12-01 17:44 G 41018931.13 41018931.24 41018931.36 0.0140 0.0067

Uranus 107594-02-27 21:20 G 41019019.27 41019019.39 41019019.52 0.0140 0.0047

Uranus 107594-05-27 00:42 G 41019107.40 41019107.53 41019107.67 0.0140 0.0027

Uranus 107594-08-23 04:18 G 41019195.54 41019195.68 41019195.81 0.0140 0.0007

Uranus 107594-11-19 07:39 G 41019283.69 41019283.82 41019283.95 0.0140 0.0013

Uranus 107595-02-15 11:01 G 41019371.84 41019371.96 41019372.09 0.0140 0.0033

Uranus 107595-05-14 14:23 G 41019459.98 41019460.10 41019460.23 0.0140 0.0053

Moon 107595-05-16 04:18 G 41019461.59 41019461.68 41019461.77 0.2657 0.1349

Earth 107595-05-16 04:32 G 41019461.60 41019461.69 41019461.78 0.2651 0.1359 *

Uranus 107595-08-10 17:59 G 41019548.14 41019548.25 41019548.36 0.0140 0.0073

Uranus 107595-11-06 21:20 G 41019636.29 41019636.39 41019636.49 0.0140 0.0092

Uranus 107596-02-03 00:27 G 41019724.45 41019724.52 41019724.61 0.0141 0.0113

Uranus 107596-05-01 04:03 G 41019812.63 41019812.67 41019812.72 0.0141 0.0132

Jupiter 107597-11-18 17:59 G 41020379.10 41020379.25 41020379.40 0.0511 0.0304

Mars 107598-01-10 10:18 G 41020431.82 41020431.93 41020432.04 0.1697 0.0566

Jupiter 107603-04-24 14:51 G 41022362.00 41022362.12 41022362.24 0.0518 0.0189

Jupiter 107603-07-22 19:39 G 41022451.26 41022451.32 41022451.39 0.0515 0.0433

Earth 107604-11-16 07:25 G 41022933.68 41022933.81 41022933.95 0.2680 0.1491

Moon 107604-11-16 08:37 G 41022933.73 41022933.86 41022933.98 0.2675 0.1676 *

Saturn 107606-01-26 20:08 G 41023370.19 41023370.34 41023370.50 0.0263 0.0144

Saturn 107606-04-25 17:01 G 41023459.02 41023459.21 41023459.40 0.0263 0.0036

Saturn 107606-07-23 13:39 G 41023547.97 41023548.07 41023548.19 0.0263 0.0217

Mars 107607-06-02 21:20 G 41023862.27 41023862.39 41023862.50 0.1704 0.0081

Jupiter 107609-09-06 15:06 G 41024688.95 41024689.13 41024689.31 0.0511 0.0085

Venus 107610-01-19 17:01 G 41024824.13 41024824.21 41024824.29 0.3672 0.2177

Venus 107611-08-08 21:20 G 41025390.25 41025390.39 41025390.53 0.3706 0.1640

Jupiter 107615-02-10 19:11 G 41026672.21 41026672.30 41026672.40 0.0518 0.0344

Jupiter 107615-05-11 00:27 G 41026761.41 41026761.52 41026761.62 0.0515 0.0284

Moon 107615-05-11 22:18 G 41026762.35 41026762.43 41026762.52 0.2657 0.1614

Earth 107615-05-11 23:01 G 41026762.37 41026762.46 41026762.55 0.2654 0.1465 *

Venus 107615-08-05 08:37 G 41026847.76 41026847.86 41026847.97 0.3669 0.0448

Mars 107616-10-23 07:54 G 41027292.73 41027292.83 41027292.94 0.1711 0.0725

Mars 107617-11-24 12:27 G 41027689.88 41027690.02 41027690.17 0.1845 0.0933

Saturn 107620-05-31 01:25 G 41028608.46 41028608.56 41028608.66 0.0298 0.0186

Saturn 107620-08-27 13:54 G 41028696.95 41028697.08 41028697.21 0.0298 0.0009

Saturn 107620-11-24 02:08 G 41028785.49 41028785.59 41028785.70 0.0298 0.0170

Venus 107621-02-18 00:13 G 41028871.42 41028871.51 41028871.61 0.3665 0.1270

Jupiter 107621-06-25 12:42 G 41028998.85 41028999.03 41028999.20 0.0510 0.0126

Mars 107626-03-15 18:42 G 41030723.21 41030723.28 41030723.34 0.1719 0.1388

Venus 107626-09-03 15:49 G 41030895.10 41030895.16 41030895.22 0.3662 0.2943

Jupiter 107626-11-29 23:30 G 41030982.45 41030982.48 41030982.51 0.0519 0.0503

Jupiter 107627-02-27 05:01 G 41031071.58 41031071.71 41031071.83 0.0516 0.0132

Mars 107627-04-16 06:56 G 41031119.63 41031119.79 41031119.94 0.1836 0.0703

Mars 107628-02-18 23:15 G 41031428.40 41031428.47 41031428.55 0.1690 0.1274

Moon 107628-05-13 16:03 G 41031513.06 41031513.17 41031513.27 0.2659 0.0154

Earth 107628-05-13 16:03 G 41031513.07 41031513.17 41031513.28 0.2653 0.0145 *

Jupiter 107633-04-13 10:03 G 41033308.79 41033308.92 41033309.06 0.0509 0.0337

Uranus 107634-03-30 23:01 G 41033660.38 41033660.46 41033660.55 0.0138 0.0123

Uranus 107634-06-27 06:27 G 41033748.64 41033748.77 41033748.91 0.0138 0.0096

Uranus 107634-09-23 13:54 G 41033836.92 41033837.08 41033837.25 0.0138 0.0069

Uranus 107634-12-20 21:35 G 41033925.22 41033925.40 41033925.58 0.0138 0.0042

Uranus 107635-03-19 05:01 G 41034013.52 41034013.71 41034013.91 0.0138 0.0015

Uranus 107635-06-15 12:42 G 41034101.84 41034102.03 41034102.22 0.0138 0.0013

Saturn 107635-06-15 17:44 G 41034102.13 41034102.24 41034102.35 0.0263 0.0210 *

Uranus 107635-09-11 20:08 G 41034190.16 41034190.34 41034190.53 0.0138 0.0040

Saturn 107635-09-12 14:23 G 41034190.91 41034191.10 41034191.29 0.0263 0.0031

Uranus 107635-12-09 03:35 G 41034278.49 41034278.65 41034278.83 0.0138 0.0068

Saturn 107635-12-10 11:15 G 41034279.82 41034279.97 41034280.13 0.0263 0.0150

Uranus 107636-03-06 11:30 G 41034366.84 41034366.98 41034367.12 0.0138 0.0095

Uranus 107636-06-02 18:42 G 41034455.21 41034455.28 41034455.38 0.0137 0.0123

Mars 107637-07-11 10:18 G 41034858.82 41034858.93 41034859.04 0.1697 0.0647

Earth 107637-11-14 05:15 G 41034984.60 41034984.72 41034984.85 0.2679 0.1646

Moon 107637-11-14 05:59 G 41034984.61 41034984.75 41034984.89 0.2673 0.1436 *

Jupiter 107638-12-16 09:06 G 41035381.75 41035381.88 41035382.01 0.0517 0.0030

Earth 107641-05-16 09:20 G 41036263.80 41036263.89 41036263.97 0.2651 0.1682

Moon 107641-05-16 09:49 G 41036263.83 41036263.91 41036263.99 0.2655 0.1724 *

Jupiter 107645-04-30 18:27 G 41037709.13 41037709.27 41037709.41 0.0511 0.0340

Mars 107646-12-01 21:06 G 41038289.27 41038289.38 41038289.50 0.1704 0.0027

Saturn 107649-10-18 03:06 G 41039340.55 41039340.63 41039340.70 0.0298 0.0243

Saturn 107650-01-14 15:35 G 41039429.02 41039429.15 41039429.28 0.0298 0.0063

Saturn 107650-04-13 04:03 G 41039517.55 41039517.67 41039517.79 0.0297 0.0116

Saturn 107650-07-10 16:18 G 41039606.16 41039606.18 41039606.20 0.0297 0.0291

Jupiter 107650-10-04 13:39 G 41039691.95 41039692.07 41039692.19 0.0518 0.0182

Moon 107650-11-17 13:25 G 41039735.94 41039736.06 41039736.17 0.2675 0.1947

Earth 107650-11-17 14:23 G 41039736.02 41039736.10 41039736.19 0.2681 0.2255 *

Jupiter 107651-01-01 18:42 G 41039781.21 41039781.28 41039781.34 0.0515 0.0439

Mars 107656-04-23 07:54 G 41041719.73 41041719.83 41041719.94 0.1711 0.0643

Jupiter 107657-02-16 13:39 G 41042018.89 41042019.07 41042019.25 0.0510 0.0094

Mars 107657-05-25 13:39 G 41042116.94 41042117.07 41042117.20 0.1845 0.1115

Venus 107661-02-09 22:47 G 41043473.41 41043473.45 41043473.49 0.3674 0.3352

Moon 107661-05-12 03:35 G 41043564.56 41043564.65 41043564.75 0.2661 0.1179

Earth 107661-05-12 03:35 G 41043564.56 41043564.65 41043564.75 0.2654 0.1135 *

Jupiter 107662-07-23 18:13 G 41044002.17 41044002.26 41044002.36 0.0519 0.0334

Jupiter 107662-10-20 23:30 G 41044091.38 41044091.48 41044091.59 0.0515 0.0296

Neptune 107663-11-15 15:35 G 41044482.15 41044482.15 41044482.16 0.0089 0.0089

Neptune 107664-02-11 18:42 G 41044570.22 41044570.28 41044570.39 0.0089 0.0080

Neptune 107664-05-09 22:18 G 41044658.33 41044658.43 41044658.57 0.0089 0.0070

Neptune 107664-08-06 01:54 G 41044746.46 41044746.58 41044746.75 0.0089 0.0060

Saturn 107664-11-01 17:30 G 41044834.19 41044834.23 41044834.26 0.0263 0.0257

Neptune 107664-11-02 05:59 G 41044834.59 41044834.75 41044834.92 0.0089 0.0049

Neptune 107665-01-29 09:35 G 41044922.73 41044922.90 41044923.08 0.0089 0.0039

Saturn 107665-01-29 14:08 G 41044922.91 41044923.09 41044923.27 0.0263 0.0079 *

Neptune 107665-04-27 13:11 G 41045010.88 41045011.05 41045011.24 0.0089 0.0029

Saturn 107665-04-28 10:47 G 41045011.78 41045011.95 41045012.13 0.0263 0.0102

Neptune 107665-07-24 16:47 G 41045099.02 41045099.20 41045099.40 0.0089 0.0019

Mars 107665-09-13 18:42 G 41045150.21 41045150.28 41045150.35 0.1719 0.1302

Neptune 107665-10-20 20:37 G 41045187.17 41045187.36 41045187.56 0.0089 0.0008

Neptune 107666-01-17 00:27 G 41045275.32 41045275.52 41045275.71 0.0089 0.0003

Neptune 107666-04-15 04:03 G 41045363.48 41045363.67 41045363.86 0.0089 0.0013

Neptune 107666-07-12 07:39 G 41045451.64 41045451.82 41045452.01 0.0089 0.0024

Venus 107666-08-26 14:23 G 41045497.01 41045497.10 41045497.20 0.3671 0.1592

Neptune 107666-10-08 11:30 G 41045539.80 41045539.98 41045540.16 0.0089 0.0034

Mars 107666-10-15 07:25 G 41045546.65 41045546.81 41045546.97 0.1836 0.0557

Neptune 107667-01-04 14:51 G 41045627.97 41045628.12 41045628.30 0.0089 0.0045

Neptune 107667-04-02 18:42 G 41045716.14 41045716.28 41045716.44 0.0089 0.0055

Neptune 107667-06-29 22:03 G 41045804.31 41045804.42 41045804.58 0.0089 0.0066

Mars 107667-08-19 23:15 G 41045855.41 41045855.47 41045855.54 0.1690 0.1360

Neptune 107667-09-26 02:08 G 41045892.50   41045892.59   41045892.70 0.0089 0.0076

Neptune 107667-12-23 05:59 G 41045980.71   41045980.75   41045980.81 0.0089 0.0086

Venus   107668-03-14 23:30 G 41046063.33   41046063.48   41046063.64 0.3707 0.0155

Jupiter 107668-12-05 10:47 G 41046328.77   41046328.95   41046329.13 0.0510 0.0123

Venus   107672-03-11 06:13 G 41047520.65   41047520.76   41047520.86 0.3667 0.0162

Jupiter 107674-05-11 22:47 G 41048312.41   41048312.45   41048312.49 0.0519 0.0489

Earth   107674-05-14 20:51 G 41048315.26   41048315.37   41048315.48 0.2652 0.0441

Moon   107674-05-14 21:35 G 41048315.29   41048315.40   41048315.50 0.2654 0.0602 *

Jupiter 107674-08-09 04:03 G 41048401.55   41048401.67   41048401.80 0.0516 0.0145

Mars   107677-01-09 10:18 G 41049285.83   41049285.93   41049286.03 0.1696 0.0730

Uranus   107677-04-01 14:23 G 41049368.05   41049368.10   41049368.18 0.0140 0.0122

Uranus   107677-06-28 17:59 G 41049456.17   41049456.25   41049456.35 0.0140 0.0102

Uranus   107677-09-24 21:35 G 41049544.30   41049544.40   41049544.51 0.0140 0.0082

Venus   107677-09-24 21:49 G 41049544.32   41049544.41   41049544.50 0.3664 0.1840 *

Uranus   107677-12-22 00:56 G 41049632.43   41049632.54   41049632.67 0.0140 0.0062

Uranus   107678-03-20 04:32 G 41049720.57   41049720.69   41049720.82 0.0140 0.0042

Uranus   107678-06-16 08:08 G 41049808.70   41049808.84   41049808.97 0.0140 0.0022

Uranus   107678-09-12 11:30 G 41049896.85   41049896.98   41049897.11 0.0140 0.0002

Uranus   107678-12-09 14:51 G 41049984.99   41049985.12   41049985.25 0.0140 0.0018

Uranus   107679-03-07 18:13 G 41050073.14   41050073.26   41050073.39 0.0140 0.0038

Saturn   107679-06-03 16:03 G 41050161.06   41050161.17   41050161.29 0.0298 0.0135

Uranus   107679-06-03 21:49 G 41050161.29   41050161.41   41050161.53 0.0140 0.0058 *

Uranus   107679-08-31 01:11 G 41050249.44   41050249.55   41050249.66 0.0140 0.0078

Saturn   107679-08-31 04:32 G 41050249.56   41050249.69   41050249.82 0.0298 0.0044 *

Uranus   107679-11-27 04:32 G 41050337.60   41050337.69   41050337.79 0.0141 0.0097

Saturn   107679-11-27 16:47 G 41050338.12   41050338.20   41050338.29 0.0297 0.0220

Uranus   107680-02-23 07:39 G 41050425.76   41050425.82   41050425.91 0.0141 0.0118

Uranus   107680-05-21 11:15 G 41050513.95   41050513.97   41050514.00 0.0141 0.0137

Jupiter 107680-09-23 08:23 G 41050638.71   41050638.85   41050638.99 0.0509 0.0332

Venus   107683-04-10 13:11 G 41051568.03   41051568.05   41051568.08 0.3661 0.3502

Moon 107683-11-15 10:32 G 41051786.79 41051786.94 41051787.09 0.2676 0.1096

Earth 107683-11-15 12:13 G 41051786.86 41051787.01 41051787.17 0.2679 0.0894 *

Jupiter 107686-05-28 08:37 G 41052711.73 41052711.86 41052711.99 0.0517 0.0010

Mars 107686-06-01 21:06 G 41052716.27 41052716.38 41052716.50 0.1704 0.0088

Earth 107687-05-17 13:54 G 41053066.01 41053066.08 41053066.15 0.2651 0.2003

Moon 107687-05-17 14:23 G 41053066.04 41053066.10 41053066.17 0.2647 0.2059 *

Jupiter 107692-10-10 17:15 G 41055039.09 41055039.22 41055039.35 0.0512 0.0352

Earth 107694-05-10 15:06 G 41055616.09 41055616.13 41055616.18 0.2655 0.2395

Moon 107694-05-10 15:35 G 41055616.10 41055616.15 41055616.19 0.2662 0.2393 *

Saturn 107694-06-18 11:15 G 41055654.82 41055654.97 41055655.14 0.0263 0.0146

Saturn 107694-09-15 08:08 G 41055743.66 41055743.84 41055744.03 0.0263 0.0035

Saturn 107694-12-13 05:15 G 41055832.61 41055832.72 41055832.83 0.0263 0.0217

Mars 107695-10-23 07:54 G 41056146.72 41056146.83 41056146.94 0.1711 0.0561

Mars 107696-11-23 14:37 G 41056543.99 41056544.11 41056544.23 0.1846 0.1287

Jupiter 107698-03-16 12:42 G 41057021.91 41057022.03 41057022.15 0.0517 0.0173

Jupiter 107698-06-13 17:30 G 41057111.17 41057111.23 41057111.29 0.0514 0.0448

Jupiter 107704-07-30 13:54 G 41059348.90 41059349.08 41059349.26 0.0511 0.0128

Mars 107705-03-15 18:27 G 41059577.20 41059577.27 41059577.35 0.1719 0.1230

Mars 107706-04-16 08:37 G 41059973.69 41059973.86 41059974.03 0.1836 0.0372

Mars 107707-02-18 23:15 G 41060282.41 41060282.47 41060282.53 0.1689 0.1434

Earth 107707-05-14 08:23 G 41060366.75 41060366.85 41060366.96 0.2654 0.0810

Moon 107707-05-14 09:06 G 41060366.77 41060366.88 41060366.98 0.2654 0.0653 *

Saturn 107708-10-21 17:59 G 41060893.15 41060893.25 41060893.35 0.0298 0.0189

Saturn 107709-01-18 06:27 G 41060981.64 41060981.77 41060981.90 0.0298 0.0010

Saturn 107709-04-16 18:42 G 41061070.18 41061070.28 41061070.39 0.0297 0.0168

Jupiter 107710-01-03 17:01 G 41061332.12 41061332.21 41061332.31 0.0518 0.0328

Jupiter 107710-04-02 22:18 G 41061421.33 41061421.43 41061421.53 0.0515 0.0300

Jupiter 107716-05-18 09:20 G 41063658.71 41063658.89 41063659.07 0.0509 0.0114

Mars 107716-07-11 10:03 G 41063712.82 41063712.92 41063713.03 0.1697 0.0811

Venus 107717-09-17 20:08 G 41064146.28 41064146.34 41064146.41 0.3673 0.2756

Uranus 107718-04-21 05:30 G 41064361.64 41064361.73 41064361.84 0.0138 0.0118

Uranus 107718-07-18 12:56 G 41064449.91 41064450.04 41064450.19 0.0138 0.0091

Uranus 107718-10-14 20:37 G 41064538.19 41064538.36 41064538.53 0.0138 0.0064

Uranus 107719-01-11 04:03 G 41064626.49 41064626.67 41064626.86 0.0138 0.0037

Uranus 107719-04-09 11:44 G 41064714.80 41064714.99 41064715.18 0.0138 0.0010

Uranus 107719-07-06 19:11 G 41064803.11 41064803.30 41064803.49 0.0138 0.0018

Uranus 107719-10-03 02:51 G 41064891.43 41064891.62 41064891.80 0.0138 0.0045

Uranus 107719-12-30 10:03 G 41064979.77 41064979.92 41064980.09 0.0138 0.0073

Uranus 107720-03-27 17:44 G 41065068.12 41065068.24 41065068.38 0.0138 0.0100

Earth 107720-05-16 01:39 G 41065117.46 41065117.57 41065117.67 0.2652 0.0772

Moon 107720-05-16 01:54 G 41065117.48 41065117.58 41065117.69 0.2647 0.0786 *

Uranus 107720-06-24 01:25 G 41065156.49 41065156.56 41065156.64 0.0137 0.0127

Jupiter 107721-10-22 21:35 G 41065642.36 41065642.40 41065642.45 0.0520 0.0482

Jupiter 107722-01-20 03:06 G 41065731.51 41065731.63 41065731.75 0.0516 0.0153

Venus 107723-04-03 11:59 G 41066169.90 41066170.00 41066170.10 0.3670 0.0999

Saturn 107723-11-06 11:30 G 41066386.86 41066386.98 41066387.11 0.0263 0.0190

Saturn 107724-02-03 08:23 G 41066475.66 41066475.85 41066476.04 0.0263 0.0011

Saturn 107724-05-02 05:01 G 41066564.58 41066564.71 41066564.86 0.0264 0.0171

Venus 107724-10-21 01:54 G 41066736.45 41066736.58 41066736.71 0.3708 0.1930

Pluto 107724-11-06 11:30 G 41066752.90 41066752.98 41066753.08 0.0060 0.0053

Pluto 107725-02-02 12:27 G 41066840.91 41066841.02 41066841.18 0.0060 0.0044

Pluto 107725-05-01 14:08 G 41066928.94 41066929.09 41066929.27 0.0060 0.0034

Pluto 107725-07-28 15:35 G 41067016.98 41067017.15 41067017.34 0.0060 0.0024

Pluto 107725-10-24 16:47 G 41067105.03 41067105.20 41067105.41 0.0060 0.0015

Mars 107725-12-01 21:06 G 41067143.27 41067143.38 41067143.50 0.1704 0.0178

Pluto 107726-01-20 18:27 G 41067193.08 41067193.27 41067193.47 0.0060 0.0005

Pluto 107726-04-18 19:54 G 41067281.13 41067281.33 41067281.52 0.0060 0.0005

Pluto 107726-07-15 20:51 G 41067369.19 41067369.37 41067369.57 0.0060 0.0015

Pluto 107726-10-11 22:03 G 41067457.26 41067457.42 41067457.62 0.0060 0.0025

Pluto 107727-01-07 23:44 G 41067545.34 41067545.49 41067545.66 0.0060 0.0034

Pluto 107727-04-06 00:56 G 41067633.42 41067633.54 41067633.68 0.0060 0.0044

Pluto 107727-07-03 02:08 G 41067721.53 41067721.59 41067721.69 0.0060 0.0054

Jupiter 107728-03-06 06:27 G 41067968.63 41067968.77 41067968.91 0.0509 0.0330

Venus 107728-10-17 03:35 G 41068193.55 41068193.65 41068193.75 0.3667 0.0722

Moon 107729-11-16 17:59 G 41068589.09 41068589.25 41068589.40 0.2684 0.0483

Earth 107729-11-16 19:11 G 41068589.14 41068589.30 41068589.46 0.2679 0.0153 *

Moon 107733-05-18 18:13 G 41069868.21 41069868.26 41069868.31 0.2645 0.2303

Earth 107733-05-18 18:42 G 41069868.23 41069868.28 41069868.33 0.2651 0.2330 *

Jupiter 107733-11-08 07:39 G 41070041.69 41070041.82 41070041.95 0.0517 0.0010

Venus 107734-05-02 19:11 G 41070217.22 41070217.30 41070217.38 0.3664 0.2401

Mars 107735-04-24 07:54 G 41070573.72 41070573.83 41070573.94 0.1711 0.0481

Mars 107736-05-25 15:20 G 41070971.04 41070971.14 41070971.24 0.1846 0.1449

Saturn 107738-03-10 18:56 G 41071625.22 41071625.29 41071625.35 0.0298 0.0256

Saturn 107738-06-07 07:25 G 41071713.68 41071713.81 41071713.93 0.0298 0.0077

Saturn 107738-09-03 19:39 G 41071802.20 41071802.32 41071802.45 0.0297 0.0101

Saturn 107738-12-01 07:54 G 41071890.79 41071890.83 41071890.88 0.0297 0.0276

Jupiter 107740-03-23 15:06 G 41072369.00 41072369.13 41072369.27 0.0511 0.0353

Earth 107740-05-11 19:54 G 41072418.27 41072418.33 41072418.40 0.2655 0.2063

Moon 107740-05-11 20:37 G 41072418.29 41072418.36 41072418.43 0.2655 0.1988 *

Neptune 107744-06-13 17:59 G 41073912.23 41073912.25 41073912.28 0.0088 0.0085

Neptune 107744-09-09 19:11 G 41074000.25 41074000.30 41074000.37 0.0088 0.0079

Mars 107744-09-13 18:42 G 41074004.19 41074004.28 41074004.36 0.1718 0.1145

Neptune 107744-12-06 20:37 G 41074088.29 41074088.36 41074088.44 0.0088 0.0072

Neptune 107745-03-04 21:49 G 41074176.33 41074176.41 41074176.51 0.0088 0.0065

Neptune 107745-05-31 23:15 G 41074264.38 41074264.47 41074264.58 0.0088 0.0058

Jupiter 107745-08-27 11:59 G 41074351.88 41074352.00 41074352.12 0.0517 0.0155

Neptune 107745-08-28 00:42 G 41074352.42 41074352.53 41074352.64 0.0088 0.0051

Mars 107745-10-15 09:35 G 41074400.73 41074400.90 41074401.07 0.1836 0.0199

Neptune 107745-11-24 01:54 G 41074440.47 41074440.58 41074440.70 0.0088 0.0045

Jupiter 107745-11-24 16:47 G 41074441.15 41074441.20 41074441.26 0.0514 0.0465

Neptune 107746-02-20 03:20 G 41074528.52 41074528.64 41074528.76 0.0088 0.0038

Neptune 107746-05-19 04:32 G 41074616.57 41074616.69 41074616.82 0.0088 0.0031

Neptune 107746-08-15 05:59 G 41074704.62 41074704.75 41074704.88 0.0088 0.0024

Mars 107746-08-19 23:15 G 41074709.42 41074709.47 41074709.52 0.1689 0.1516

Neptune 107746-11-11 07:11 G 41074792.68 41074792.80 41074792.94 0.0088 0.0018

Neptune 107747-02-07 08:37 G 41074880.73 41074880.86 41074880.99 0.0088 0.0011

Neptune 107747-05-06 09:49 G 41074968.78 41074968.91 41074969.05 0.0088 0.0005

Neptune 107747-08-02 11:15 G 41075056.84 41075056.97 41075057.10 0.0088 0.0003

Neptune 107747-10-29 12:27 G 41075144.89 41075145.02 41075145.16 0.0088 0.0010

Neptune 107748-01-25 13:54 G 41075232.95 41075233.08 41075233.21 0.0088 0.0016

Neptune 107748-04-22 15:06 G 41075321.00 41075321.13 41075321.26 0.0088 0.0023

Neptune 107748-07-19 16:18 G 41075409.06 41075409.18 41075409.31 0.0088 0.0030

Neptune 107748-10-15 17:44 G 41075497.12 41075497.24 41075497.36 0.0088 0.0036

Neptune 107749-01-11 18:56 G 41075585.18 41075585.29 41075585.41 0.0088 0.0043

Neptune 107749-04-09 20:08 G 41075673.24 41075673.34 41075673.45 0.0088 0.0050

Neptune 107749-07-06 21:35 G 41075761.30 41075761.40 41075761.50 0.0088 0.0056

Neptune 107749-10-02 22:32 G 41075849.36 41075849.44 41075849.54 0.0088 0.0063

Neptune 107749-12-29 23:44 G 41075937.42 41075937.49 41075937.58 0.0088 0.0070

Neptune 107750-03-28 01:11 G 41076025.49 41076025.55 41076025.62 0.0088 0.0076

Neptune 107750-06-24 02:23 G 41076113.57 41076113.60 41076113.65 0.0088 0.0083

Jupiter 107752-01-10 12:13 G 41076678.84 41076679.01 41076679.19 0.0511 0.0136

Saturn 107753-03-25 09:06 G 41077118.84 41077118.88 41077118.93 0.0263 0.0255

Earth 107753-05-14 13:11 G 41077168.94 41077169.05 41077169.16 0.2653 0.0478

Moon 107753-05-14 13:25 G 41077168.95 41077169.06 41077169.17 0.2647 0.0402 *

Saturn 107753-06-22 05:59 G 41077207.57 41077207.75 41077207.93 0.0263 0.0076

Saturn 107753-09-19 02:51 G 41077296.45 41077296.62 41077296.79 0.0263 0.0106

Mars 107755-03-07 03:49 G 41077830.65 41077830.66 41077830.67 0.1826 0.1821

Mars 107756-01-10 10:03 G 41078139.83 41078139.92 41078140.02 0.1696 0.0893

Jupiter 107757-06-15 16:03 G 41078662.07 41078662.17 41078662.27 0.0518 0.0321

Jupiter 107757-09-12 21:06 G 41078751.28 41078751.38 41078751.48 0.0515 0.0306

Uranus 107761-01-24 18:13 G 41079981.24 41079981.26 41079981.29 0.0140 0.0137

Uranus 107761-04-22 21:49 G 41080069.34 41080069.41 41080069.48 0.0140 0.0117

Uranus 107761-07-20 01:11 G 41080157.46 41080157.55 41080157.65 0.0140 0.0097

Uranus 107761-10-16 04:47 G 41080245.59 41080245.70 41080245.81 0.0140 0.0077

Uranus 107762-01-12 08:08 G 41080333.73 41080333.84 41080333.97 0.0140 0.0057

Uranus 107762-04-10 11:44 G 41080421.86 41080421.99 41080422.12 0.0140 0.0037

Uranus 107762-07-07 15:20 G 41080510.00 41080510.14 41080510.27 0.0140 0.0018

Uranus 107762-10-03 18:42 G 41080598.15 41080598.28 41080598.41 0.0140 0.0003

Uranus 107762-12-30 22:03 G 41080686.29 41080686.42 41080686.55 0.0140 0.0023

Uranus 107763-03-29 01:39 G 41080774.44 41080774.57 41080774.69 0.0140 0.0043

Uranus 107763-06-25 05:01 G 41080862.59 41080862.71 41080862.83 0.0140 0.0062

Uranus 107763-09-21 08:23 G 41080950.75 41080950.85 41080950.96 0.0141 0.0082

Jupiter 107763-10-29 09:06 G 41080988.70 41080988.88 41080989.06 0.0510 0.0087

Uranus 107763-12-18 11:30 G 41081038.90 41081038.98 41081039.08 0.0141 0.0103

Uranus 107764-03-15 15:06 G 41081127.07 41081127.13 41081127.20 0.0141 0.0122

Mars 107765-06-01 21:06 G 41081570.26 41081570.38 41081570.49 0.1704 0.0254

Moon 107766-05-17 05:44 G 41081919.64 41081919.74 41081919.84 0.2648 0.0973

Earth 107766-05-17 06:13 G 41081919.67 41081919.76 41081919.86 0.2652 0.1100 *

Saturn 107767-10-25 09:20 G 41082445.77 41082445.89 41082446.01 0.0298 0.0130

Saturn 107768-01-21 21:49 G 41082534.28 41082534.41 41082534.54 0.0297 0.0049

Saturn 107768-04-19 10:03 G 41082622.84 41082622.92 41082623.00 0.0297 0.0225

Jupiter 107769-04-03 20:23 G 41082972.30 41082972.35 41082972.40 0.0519 0.0479

Jupiter 107769-07-02 01:39 G 41083061.45 41083061.57 41083061.70 0.0516 0.0157

Venus 107774-04-24 17:44 G 41084819.16 41084819.24 41084819.32 0.3672 0.2155

Mars 107774-10-23 07:54 G 41085000.72 41085000.83 41085000.94 0.1711 0.0396

Jupiter 107775-08-17 04:47 G 41085298.57 41085298.70 41085298.84 0.0509 0.0324

Venus 107775-11-11 18:42 G 41085385.15 41085385.28 41085385.41 0.3705 0.2002

Earth 107775-11-18 02:08 G 41085391.43 41085391.59 41085391.75 0.2680 0.0589

Moon 107775-11-18 03:06 G 41085391.48 41085391.63 41085391.79 0.2685 0.0724 *

Mars 107775-11-24 16:32 G 41085398.11 41085398.19 41085398.26 0.1846 0.1637

Moon 107779-05-19 22:47 G 41086670.42 41086670.45 41086670.47 0.2652 0.2556

Venus 107779-11-08 09:35 G 41086842.79 41086842.90 41086843.00 0.3669 0.0433

Jupiter 107781-04-20 06:27 G 41087371.64 41087371.77 41087371.89 0.0517 0.0017

Saturn 107782-11-09 06:13 G 41087939.60 41087939.76 41087939.93 0.0263 0.0118

Saturn 107783-02-06 03:06 G 41088028.45 41088028.63 41088028.82 0.0264 0.0063

Saturn 107783-05-05 23:59 G 41088117.44 41088117.50 41088117.57 0.0264 0.0246

Mars 107784-03-14 18:27 G 41088431.19 41088431.27 41088431.36 0.1718 0.1064

Mars 107785-04-15 10:18 G 41088827.76 41088827.93 41088828.10 0.1836 0.0060

Venus 107785-05-24 01:11 G 41088866.45 41088866.55 41088866.64 0.3666 0.1295

Mars 107786-02-17 23:15 G 41089136.44 41089136.47 41089136.50 0.1689 0.1600

Moon 107786-05-13 00:42 G 41089220.45 41089220.53 41089220.61 0.2648 0.1684

Earth 107786-05-13 00:42 G 41089220.45 41089220.53 41089220.61 0.2655 0.1730 *

Jupiter 107787-09-03 12:56 G 41089698.91 41089699.04 41089699.18 0.0511 0.0350

Venus 107790-12-07 16:47 G 41090890.14 41090890.20 41090890.25 0.3663 0.2969

Jupiter 107793-02-06 10:47 G 41091681.83 41091681.95 41091682.07 0.0518 0.0151

Jupiter 107793-05-06 15:49 G 41091771.11 41091771.16 41091771.21 0.0515 0.0469

Mars 107794-09-05 04:47 G 41092257.63 41092257.70 41092257.77 0.1827 0.1654

Mars 107795-07-11 10:03 G 41092566.83 41092566.92 41092567.02 0.1696 0.0973

Saturn 107797-03-13 10:47 G 41093177.86 41093177.95 41093178.06 0.0298 0.0188

Saturn 107797-06-09 23:15 G 41093266.34 41093266.47 41093266.60 0.0297 0.0012

Saturn 107797-09-06 11:30 G 41093354.88 41093354.98 41093355.09 0.0297 0.0168

Moon 107799-05-15 17:30 G 41093971.12 41093971.23 41093971.33 0.2649 0.0299

Earth 107799-05-15 17:59 G 41093971.14 41093971.25 41093971.36 0.2653 0.0152 *

Jupiter 107799-06-22 10:03 G 41094008.74 41094008.92 41094009.10 0.0511 0.0130

Uranus 107802-05-12 12:27 G 41095062.92 41095063.02 41095063.13 0.0138 0.0112

Uranus 107802-08-08 19:54 G 41095151.19 41095151.33 41095151.48 0.0138 0.0085

Uranus 107802-11-05 03:20 G 41095239.47 41095239.64 41095239.82 0.0138 0.0058

Uranus 107803-02-01 11:01 G 41095327.77 41095327.96 41095328.14 0.0138 0.0031

Uranus 107803-04-30 18:27 G 41095416.08 41095416.27 41095416.46 0.0138 0.0004

Uranus 107803-07-28 01:54 G 41095504.39 41095504.58 41095504.77 0.0138 0.0023

Uranus 107803-10-24 09:20 G 41095592.72 41095592.89 41095593.08 0.0138 0.0051

Uranus 107804-01-20 16:47 G 41095681.05 41095681.20 41095681.37 0.0138 0.0078

Uranus 107804-04-18 00:27 G 41095769.40 41095769.52 41095769.65 0.0137 0.0105

Uranus 107804-07-15 07:54 G 41095857.79 41095857.83 41095857.89 0.0137 0.0132

Jupiter 107804-11-26 15:06 G 41095992.03 41095992.13 41095992.24 0.0518 0.0309

Mars 107804-12-01 21:06 G 41095997.26 41095997.38 41095997.49 0.1703 0.0337

Jupiter 107805-02-23 20:23 G 41096081.25 41096081.35 41096081.45 0.0515 0.0318

Earth 107808-11-15 23:59 G 41097442.45 41097442.50 41097442.55 0.2678 0.2540

Moon 107808-11-16 01:25 G 41097442.49 41097442.56 41097442.62 0.2682 0.2440 *

Jupiter 107811-04-11 07:11 G 41098318.62 41098318.80 41098318.98 0.0510 0.0086

Saturn 107812-03-29 04:03 G 41098671.54 41098671.67 41098671.82 0.0263 0.0180

Moon 107812-05-18 10:32 G 41098721.84 41098721.94 41098722.03 0.2656 0.1383

Earth 107812-05-18 11:01 G 41098721.87 41098721.96 41098722.05 0.2652 0.1420 *

Saturn 107812-06-26 00:56 G 41098760.35 41098760.54 41098760.73 0.0263 0.0006

Saturn 107812-09-22 21:49 G 41098849.28 41098849.41 41098849.55 0.0264 0.0183

Mars 107814-04-24 07:54 G 41099427.71 41099427.83 41099427.94 0.1711 0.0325

Mars 107815-05-26 17:15 G 41099825.19 41099825.22 41099825.25 0.1846 0.1803

Jupiter 107816-09-14 18:56 G 41100302.25 41100302.29 41100302.34 0.0519 0.0476

Jupiter 107816-12-13 00:27 G 41100391.40 41100391.52 41100391.64 0.0516 0.0158

Pluto 107820-05-04 01:11 G 41101629.50 41101629.55 41101629.61 0.0084 0.0076

Pluto 107820-07-31 02:37 G 41101717.51 41101717.61 41101717.70 0.0084 0.0057

Pluto 107820-10-27 03:35 G 41101805.54 41101805.65 41101805.78 0.0084 0.0039

Pluto 107821-01-23 04:47 G 41101893.58 41101893.70 41101893.84 0.0084 0.0020

Pluto 107821-04-21 06:13 G 41101981.63 41101981.76 41101981.89 0.0084 0.0002

Pluto 107821-07-18 07:25 G 41102069.68 41102069.81 41102069.94 0.0084 0.0017

Pluto 107821-10-14 08:37 G 41102157.74 41102157.86 41102157.98 0.0084 0.0035

Earth 107821-11-19 08:51 G 41102193.73 41102193.87 41102194.01 0.2680 0.1328

Moon 107821-11-19 10:47 G 41102193.82 41102193.95 41102194.07 0.2678 0.1732 *

Pluto 107822-01-10 09:20 G 41102245.80 41102245.89 41102246.01 0.0084 0.0054

Pluto 107822-04-08 10:32 G 41102333.89 41102333.94 41102334.02 0.0083 0.0072

Jupiter 107823-01-28 04:03 G 41102628.53 41102628.67 41102628.82 0.0509 0.0304

Mars 107823-09-14 18:27 G 41102858.18 41102858.27 41102858.37 0.1718 0.0982

Mars 107824-10-15 11:15 G 41103254.80 41103254.97 41103255.14 0.1837 0.0138

Venus 107825-05-16 23:30 G 41103468.44 41103468.48 41103468.52 0.3675 0.3324

Mars 107825-08-19 23:15 G 41103563.46 41103563.47 41103563.47 0.1689 0.1679

Saturn 107826-08-01 12:56 G 41103909.97 41103910.04 41103910.12 0.0298 0.0239

Saturn 107826-10-29 01:25 G 41103998.43 41103998.56 41103998.69 0.0297 0.0060

Saturn 107827-01-25 13:54 G 41104086.96 41104087.08 41104087.20 0.0297 0.0118

Saturn 107827-04-24 02:08 G 41104175.57 41104175.59 41104175.61 0.0297 0.0293

Neptune 107828-08-13 14:23 G 41104653.04 41104653.10 41104653.17 0.0089 0.0084

Jupiter 107828-10-01 04:47 G 41104701.58 41104701.70 41104701.83 0.0517 0.0017

Neptune 107828-11-09 17:59 G 41104741.15 41104741.25 41104741.36 0.0089 0.0074

Neptune 107829-02-05 21:35 G 41104829.27 41104829.40 41104829.54 0.0089 0.0064

Neptune 107829-05-05 01:11 G 41104917.40 41104917.55 41104917.71 0.0089 0.0054

Neptune 107829-08-01 04:47 G 41105005.54 41105005.70 41105005.88 0.0089 0.0043

Neptune 107829-10-28 08:23 G 41105093.68 41105093.85 41105094.04 0.0089 0.0033

Neptune 107830-01-24 12:13 G 41105181.82 41105182.01 41105182.20 0.0089 0.0023

Neptune 107830-04-22 15:49 G 41105269.97 41105270.16 41105270.35 0.0089 0.0013

Neptune 107830-07-19 19:25 G 41105358.12 41105358.31 41105358.51 0.0089 0.0003

Neptune 107830-10-15 23:01 G 41105446.27 41105446.46 41105446.66 0.0089 0.0009

Venus 107830-11-30 15:20 G 41105492.05 41105492.14 41105492.23 0.3671 0.1561

Neptune 107831-01-12 02:37 G 41105534.43 41105534.61 41105534.81 0.0089 0.0019

Neptune 107831-04-10 06:27 G 41105622.59 41105622.77 41105622.96 0.0089 0.0029

Neptune 107831-07-07 10:18 G 41105710.75 41105710.93 41105711.10 0.0089 0.0039

Neptune 107831-10-03 13:39 G 41105798.92 41105799.07 41105799.24 0.0089 0.0050

Neptune 107831-12-30 17:30 G 41105887.09 41105887.23 41105887.38 0.0089 0.0060

Neptune 107832-03-27 20:51 G 41105975.27 41105975.37 41105975.51 0.0090 0.0071

Moon 107832-05-14 04:47 G 41106022.61 41106022.70 41106022.79 0.2652 0.1467

Earth 107832-05-14 05:30 G 41106022.64 41106022.73 41106022.82 0.2654 0.1396 *

Venus 107832-06-18 20:51 G 41106058.22 41106058.37 41106058.53 0.3706 0.0253

Neptune 107832-06-24 00:42 G 41106063.47 41106063.53 41106063.63 0.0090 0.0081

Mars 107833-02-04 05:15 G 41106288.69 41106288.72 41106288.75 0.1726 0.1656

Mars 107834-03-07 05:44 G 41106684.64 41106684.74 41106684.83 0.1827 0.1485

Mars 107835-01-10 10:03 G 41106993.83 41106993.92 41106994.01 0.1696 0.1054

Jupiter 107835-02-14 11:01 G 41107028.83 41107028.96 41107029.10 0.0511 0.0351

Venus 107836-06-15 06:56 G 41107515.69 41107515.79 41107515.90 0.3668 0.0187

Jupiter 107840-07-20 09:20 G 41109011.76 41109011.89 41109012.01 0.0518 0.0153

Jupiter 107840-10-17 14:23 G 41109101.05 41109101.10 41109101.15 0.0515 0.0469

Saturn 107841-08-16 05:01 G 41109403.61 41109403.71 41109403.82 0.0264 0.0218

Saturn 107841-11-13 01:54 G 41109492.39 41109492.58 41109492.77 0.0264 0.0038

Venus 107841-12-29 22:32 G 41109539.35 41109539.44 41109539.53 0.3665 0.1860

Saturn 107842-02-09 22:47 G 41109581.29 41109581.45 41109581.61 0.0264 0.0144

Mars 107844-06-01 21:06 G 41110424.27 41110424.38 41110424.49 0.1703 0.0420

Uranus 107845-02-15 01:11 G 41110682.52 41110682.55 41110682.60 0.0140 0.0133

Uranus 107845-05-14 04:47 G 41110770.63 41110770.70 41110770.79 0.0140 0.0113

Moon 107845-05-16 22:18 G 41110773.32 41110773.43 41110773.54 0.2659 0.0077

Earth 107845-05-16 22:47 G 41110773.34 41110773.45 41110773.55 0.2653 0.0215 *

Uranus 107845-08-10 08:23 G 41110858.75 41110858.85 41110858.95 0.0140 0.0093

Uranus 107845-11-06 11:44 G 41110946.89 41110946.99 41110947.11 0.0140 0.0073

Uranus 107846-02-02 15:20 G 41111035.02 41111035.14 41111035.27 0.0140 0.0053

Uranus 107846-05-01 18:42 G 41111123.16 41111123.28 41111123.42 0.0140 0.0034

Uranus 107846-07-28 22:18 G 41111211.30 41111211.43 41111211.56 0.0140 0.0013

Uranus 107846-10-25 01:39 G 41111299.44 41111299.57 41111299.71 0.0140 0.0009

Jupiter 107846-12-03 07:39 G 41111338.64 41111338.82 41111339.00 0.0510 0.0126

Uranus 107847-01-21 05:15 G 41111387.59 41111387.72 41111387.85 0.0140 0.0027

Uranus 107847-04-19 08:37 G 41111475.74 41111475.86 41111475.99 0.0141 0.0047

Venus 107847-07-15 14:08 G 41111563.06 41111563.09 41111563.11 0.3662 0.3520

Uranus 107847-07-16 11:59 G 41111563.89 41111564.00 41111564.12 0.0141 0.0067

Uranus 107847-10-12 15:20 G 41111652.04 41111652.14 41111652.25 0.0141 0.0087

Uranus 107848-01-08 18:42 G 41111740.21 41111740.28 41111740.38 0.0141 0.0107

Uranus 107848-04-05 22:18 G 41111828.38 41111828.43 41111828.49 0.0141 0.0126

Jupiter 107852-05-08 13:39 G 41113321.97 41113322.07 41113322.17 0.0519 0.0310

Jupiter 107852-08-05 18:42 G 41113411.19 41113411.28 41113411.39 0.0516 0.0319

Mars 107853-10-23 07:39 G 41113854.71 41113854.82 41113854.94 0.1710 0.0245

Earth 107854-11-17 06:56 G 41114244.67 41114244.79 41114244.91 0.2679 0.1798

Moon 107854-11-17 08:08 G 41114244.71 41114244.84 41114244.97 0.2673 0.1663 *

Saturn 107855-12-19 14:51 G 41114642.10 41114642.12 41114642.16 0.0297 0.0290

Saturn 107856-03-17 03:35 G 41114730.53 41114730.65 41114730.77 0.0297 0.0110

Saturn 107856-06-13 15:49 G 41114819.04 41114819.16 41114819.29 0.0297 0.0069

Saturn 107856-09-10 04:03 G 41114907.60 41114907.67 41114907.75 0.0297 0.0243

Earth 107858-05-19 15:49 G 41115524.08 41115524.16 41115524.24 0.2651 0.1745

Moon 107858-05-19 16:03 G 41115524.09 41115524.17 41115524.25 0.2657 0.1829 *

Jupiter 107858-09-21 04:32 G 41115648.51 41115648.69 41115648.87 0.0510 0.0095

Mars 107863-03-15 18:27 G 41117285.17 41117285.27 41117285.37 0.1718 0.0900

Jupiter 107864-02-25 17:44 G 41117632.19 41117632.24 41117632.30 0.0519 0.0469

Mars 107864-04-15 12:27 G 41117681.85 41117682.02 41117682.18 0.1837 0.0321

Jupiter 107864-05-24 23:15 G 41117721.35 41117721.47 41117721.59 0.0516 0.0166

Moon 107867-11-20 15:20 G 41118996.04 41118996.14 41118996.25 0.2674 0.2027

Earth 107867-11-20 15:49 G 41118996.06 41118996.16 41118996.26 0.2680 0.2075 *

Jupiter 107870-07-10 01:54 G 41119958.44 41119958.58 41119958.73 0.0509 0.0308

Saturn 107871-04-01 23:59 G 41120224.33 41120224.50 41120224.68 0.0263 0.0098

Saturn 107871-06-29 20:51 G 41120313.20 41120313.37 41120313.56 0.0264 0.0085

Mars 107872-08-05 05:15 G 41120715.67 41120715.72 41120715.76 0.1726 0.1580

Mars 107873-09-05 06:27 G 41121111.66 41121111.77 41121111.89 0.1827 0.1325

Mars 107874-07-11 10:03 G 41121420.84 41121420.92 41121421.00 0.1696 0.1135

Jupiter 107876-03-13 03:20 G 41122031.51 41122031.64 41122031.77 0.0517 0.0011

Moon 107878-05-15 10:03 G 41122824.82 41122824.92 41122825.02 0.2660 0.1147

Earth 107878-05-15 10:18 G 41122824.83 41122824.93 41122825.03 0.2654 0.1070 *

Venus 107881-12-21 21:06 G 41124141.31 41124141.38 41124141.44 0.3674 0.2728

Jupiter 107882-07-27 10:03 G 41124358.79 41124358.92 41124359.05 0.0511 0.0365

Mars 107883-12-01 20:51 G 41124851.26 41124851.37 41124851.48 0.1703 0.0498

Saturn 107885-08-04 05:44 G 41125462.63 41125462.74 41125462.85 0.0297 0.0159

Saturn 107885-10-31 18:13 G 41125551.13 41125551.26 41125551.39 0.0297 0.0020

Saturn 107886-01-28 06:27 G 41125639.68 41125639.77 41125639.87 0.0297 0.0196

Uranus 107886-03-05 11:59 G 41125675.97 41125676.00 41125676.07 0.0138 0.0132

Uranus 107886-06-01 19:39 G 41125764.21 41125764.32 41125764.45 0.0138 0.0105

Uranus 107886-08-29 03:06 G 41125852.48 41125852.63 41125852.79 0.0138 0.0078

Uranus 107886-11-25 10:47 G 41125940.77 41125940.95 41125941.12 0.0138 0.0051

Uranus 107887-02-21 17:59 G 41126029.07 41126029.25 41126029.44 0.0138 0.0025

Uranus 107887-05-21 01:39 G 41126117.38 41126117.57 41126117.76 0.0138 0.0003

Venus 107887-07-07 12:42 G 41126164.93 41126165.03 41126165.13 0.3671 0.0986

Uranus 107887-08-17 09:06 G 41126205.69 41126205.88 41126206.07 0.0138 0.0030

Uranus 107887-11-13 16:18 G 41126294.02 41126294.18 41126294.37 0.0138 0.0058

Jupiter 107887-12-31 07:39 G 41126341.70 41126341.82 41126341.94 0.0518 0.0155

Uranus 107888-02-09 23:59 G 41126382.36 41126382.50 41126382.66 0.0137 0.0084

Jupiter 107888-03-29 12:42 G 41126430.98 41126431.03 41126431.08 0.0515 0.0466

Uranus 107888-05-08 07:25 G 41126470.71 41126470.81 41126470.93 0.0137 0.0112

Venus 107889-01-23 23:01 G 41126731.32 41126731.46 41126731.61 0.3707 0.1521

Earth 107891-05-18 03:20 G 41127575.54 41127575.64 41127575.75 0.2653 0.0509

Moon 107891-05-18 03:49 G 41127575.56 41127575.66 41127575.76 0.2658 0.0634 *

Venus 107893-01-20 04:32 G 41128188.58 41128188.69 41128188.79 0.3668 0.0749

Mars 107893-04-23 07:39 G 41128281.71 41128281.82 41128281.94 0.1710 0.0160

Jupiter 107894-05-15 05:30 G 41128668.56 41128668.73 41128668.91 0.0510 0.0125

Venus 107898-08-05 20:08 G 41130212.26 41130212.34 41130212.41 0.3664 0.2425

Jupiter 107899-10-19 11:44 G 41130651.89 41130651.99 41130652.10 0.0519 0.0318

Jupiter 107900-01-16 17:15 G 41130741.12 41130741.22 41130741.32 0.0516 0.0313

Saturn 107900-08-20 01:11 G 41130956.39 41130956.55 41130956.72 0.0264 0.0133

Saturn 107900-11-16 22:03 G 41131045.24 41131045.42 41131045.61 0.0264 0.0049

Moon 107900-11-18 12:42 G 41131046.88 41131047.03 41131047.18 0.2673 0.1111

Earth 107900-11-18 13:39 G 41131046.93 41131047.07 41131047.22 0.2679 0.1063 *

Saturn 107901-02-13 19:11 G 41131134.21 41131134.30 41131134.39 0.0264 0.0232

Mars 107902-09-14 18:27 G 41131712.17 41131712.27 41131712.37 0.1718 0.0814

Mars 107903-10-16 12:56 G 41132108.88 41132109.04 41132109.20 0.1837 0.0465

Earth 107904-05-20 20:23 G 41132326.29 41132326.35 41132326.42 0.2651 0.2077

Moon 107904-05-20 21:06 G 41132326.32 41132326.38 41132326.44 0.2648 0.2126 *

Jupiter 107906-03-04 02:08 G 41132978.41 41132978.59 41132978.77 0.0509 0.0101

Neptune 107909-03-12 17:44 G 41134083.20 41134083.24 41134083.30 0.0088 0.0082

Neptune 107909-06-08 19:11 G 41134171.24 41134171.30 41134171.37 0.0088 0.0075

Neptune 107909-09-04 20:37 G 41134259.28 41134259.36 41134259.44 0.0088 0.0068

Neptune 107909-12-01 21:35 G 41134347.32 41134347.40 41134347.51 0.0088 0.0062

Neptune 107910-02-27 23:01 G 41134435.37 41134435.46 41134435.57 0.0088 0.0055

Neptune 107910-05-27 00:27 G 41134523.41 41134523.52 41134523.64 0.0088 0.0048

Neptune 107910-08-23 01:54 G 41134611.46 41134611.58 41134611.70 0.0088 0.0041

Neptune 107910-11-19 03:06 G 41134699.51 41134699.63 41134699.76 0.0088 0.0035

Neptune 107911-02-15 04:18 G 41134787.56 41134787.68 41134787.82 0.0088 0.0028

Neptune 107911-05-14 05:44 G 41134875.62 41134875.74 41134875.88 0.0088 0.0021

Moon 107911-05-14 21:35 G 41134876.35 41134876.40 41134876.45 0.2662 0.2311

Earth 107911-05-14 21:49 G 41134876.36 41134876.41 41134876.46 0.2655 0.2333 *

Jupiter 107911-08-08 16:03 G 41134962.13 41134962.17 41134962.22 0.0520 0.0477

Neptune 107911-08-10 07:11 G 41134963.67 41134963.80 41134963.93 0.0088 0.0014

Jupiter 107911-11-05 21:35 G 41135051.28 41135051.40 41135051.52 0.0517 0.0159

Neptune 107911-11-06 08:23 G 41135051.72 41135051.85 41135051.99 0.0088 0.0008

Neptune 107912-02-02 09:49 G 41135139.78 41135139.91 41135140.04 0.0088 0.0001

Mars 107912-02-05 05:01 G 41135142.66 41135142.71 41135142.77 0.1725 0.1498

Neptune 107912-04-30 11:01 G 41135227.83 41135227.96 41135228.10 0.0088 0.0006

Neptune 107912-07-27 12:27 G 41135315.89 41135316.02 41135316.15 0.0088 0.0013

Neptune 107912-10-23 13:39 G 41135403.94 41135404.07 41135404.20 0.0088 0.0020

Neptune 107913-01-19 14:51 G 41135492.00 41135492.12 41135492.25 0.0088 0.0026

Mars 107913-03-07 07:39 G 41135538.69 41135538.82 41135538.95 0.1828 0.1145

Neptune 107913-04-17 16:18 G 41135580.06 41135580.18 41135580.30 0.0088 0.0033

Neptune 107913-07-14 17:30 G 41135668.11 41135668.23 41135668.35 0.0088 0.0040

Neptune 107913-10-10 18:27 G 41135756.17 41135756.27 41135756.40 0.0088 0.0047

Moon 107913-11-21 20:51 G 41135798.31 41135798.37 41135798.44 0.2682 0.2427

Neptune 107914-01-06 19:54 G 41135844.23 41135844.33 41135844.44 0.0088 0.0053

Mars 107914-01-10 10:03 G 41135847.84 41135847.92 41135848.00 0.1696 0.1218

Neptune 107914-04-04 21:06 G 41135932.30 41135932.38 41135932.49 0.0088 0.0060

Neptune 107914-07-01 22:32 G 41136020.36 41136020.44 41136020.53 0.0088 0.0066

Neptune 107914-09-27 23:44 G 41136108.43 41136108.49 41136108.57 0.0088 0.0073

Saturn 107914-12-23 08:23 G 41136194.76 41136194.85 41136194.95 0.0297 0.0201

Neptune 107914-12-25 00:56 G 41136196.50 41136196.54 41136196.61 0.0088 0.0080

Saturn 107915-03-21 21:06 G 41136283.24 41136283.38 41136283.51 0.0297 0.0024

Neptune 107915-03-23 02:23 G 41136284.58 41136284.60 41136284.63 0.0088 0.0086

Saturn 107915-06-18 09:20 G 41136371.78 41136371.89 41136372.00 0.0297 0.0154

Jupiter 107917-12-20 23:01 G 41137288.32 41137288.46 41137288.60 0.0509 0.0321

Mars 107923-06-02 20:51 G 41139278.26 41139278.37 41139278.48 0.1703 0.0579

Jupiter 107923-08-25 02:08 G 41139361.46 41139361.59 41139361.72 0.0517 0.0006

Earth 107924-05-16 14:51 G 41139627.02 41139627.12 41139627.23 0.2654 0.0749

Moon 107924-05-16 15:35 G 41139627.05 41139627.15 41139627.25 0.2657 0.0688 *

Uranus 107929-03-08 08:23 G 41141383.81 41141383.85 41141383.90 0.0140 0.0129

Uranus 107929-06-04 11:59 G 41141471.92 41141472.00 41141472.08 0.0140 0.0109

Uranus 107929-08-31 15:20 G 41141560.04 41141560.14 41141560.25 0.0140 0.0089

Uranus 107929-11-27 18:56 G 41141648.17 41141648.29 41141648.41 0.0140 0.0069

Saturn 107930-01-06 23:59 G 41141688.37 41141688.50 41141688.64 0.0263 0.0188

Jupiter 107930-01-07 07:11 G 41141688.68 41141688.80 41141688.94 0.0511 0.0355

Uranus 107930-02-23 22:18 G 41141736.31 41141736.43 41141736.56 0.0140 0.0050

Saturn 107930-04-05 20:51 G 41141777.18 41141777.37 41141777.56 0.0264 0.0007

Uranus 107930-05-23 01:54 G 41141824.45 41141824.58 41141824.71 0.0140 0.0029

Saturn 107930-07-03 17:44 G 41141866.10 41141866.24 41141866.39 0.0264 0.0176

Uranus 107930-08-19 05:15 G 41141912.59 41141912.72 41141912.86 0.0140 0.0010

Uranus 107930-11-15 08:51 G 41142000.73 41142000.87 41142001.00 0.0140 0.0011

Uranus 107931-02-11 12:13 G 41142088.88 41142089.01 41142089.14 0.0140 0.0030

Uranus 107931-05-10 15:35 G 41142177.03 41142177.15 41142177.28 0.0141 0.0050

Uranus 107931-08-06 18:56 G 41142265.18 41142265.29 41142265.41 0.0141 0.0070

Uranus 107931-11-02 22:32 G 41142353.34 41142353.44 41142353.54 0.0141 0.0090

Uranus 107932-01-30 01:54 G 41142441.50 41142441.58 41142441.66 0.0141 0.0110

Uranus 107932-04-27 05:15 G 41142529.68 41142529.72 41142529.77 0.0141 0.0130

Mars 107932-10-23 07:39 G 41142708.71 41142708.82 41142708.94 0.1710 0.0077

Jupiter 107935-06-13 05:59 G 41143671.63 41143671.75 41143671.88 0.0518 0.0160

Jupiter 107935-09-10 11:01 G 41143760.91 41143760.96 41143761.02 0.0515 0.0461

Earth 107937-05-19 08:08 G 41144377.74 41144377.84 41144377.94 0.2652 0.0833

Moon 107937-05-19 08:37 G 41144377.76 41144377.86 41144377.96 0.2648 0.0957 *

Venus 107938-07-29 18:27 G 41144814.19 41144814.27 41144814.36 0.3673 0.2136

Venus 107940-02-15 16:03 G 41145380.05 41145380.17 41145380.28 0.3704 0.2370

Jupiter 107941-10-26 04:03 G 41145998.49 41145998.67 41145998.84 0.0510 0.0130

Mars 107942-03-15 18:27 G 41146139.16 41146139.27 41146139.37 0.1718 0.0739

Mars 107943-04-16 14:08 G 41146535.93 41146536.09 41146536.25 0.1838 0.0658

Venus 107944-02-12 10:18 G 41146837.83 41146837.93 41146838.03 0.3670 0.0410

Saturn 107944-05-11 10:47 G 41146926.88 41146926.95 41146927.02 0.0297 0.0249

Saturn 107944-08-07 23:15 G 41147015.35 41147015.47 41147015.60 0.0297 0.0070

Saturn 107944-11-04 11:44 G 41147103.87 41147103.99 41147104.11 0.0297 0.0108

Saturn 107945-01-31 23:59 G 41147192.46 41147192.50 41147192.54 0.0297 0.0283

Venus 107945-09-01 01:11 G 41147404.49 41147404.55 41147404.62 0.3709 0.3290

Moon 107946-11-19 19:11 G 41147849.14 41147849.30 41147849.46 0.2683 0.0468

Earth 107946-11-19 20:37 G 41147849.20 41147849.36 41147849.52 0.2679 0.0316 *

Jupiter 107947-04-01 10:03 G 41147981.83 41147981.92 41147982.03 0.0519 0.0322

Jupiter 107947-06-29 15:20 G 41148071.04 41148071.14 41148071.25 0.0516 0.0308

Venus 107949-08-28 01:54 G 41148861.48 41148861.58 41148861.68 0.3667 0.1305

Moon 107950-05-22 01:11 G 41149128.50 41149128.55 41149128.60 0.2644 0.2339

Earth 107950-05-22 01:11 G 41149128.51 41149128.55 41149128.60 0.2651 0.2400 *

Mars 107951-08-06 05:15 G 41149569.65 41149569.72 41149569.78 0.1725 0.1409

Mars 107952-09-05 08:23 G 41149965.71 41149965.85 41149965.99 0.1828 0.0987

Mars 107953-07-11 10:03 G 41150274.84 41150274.92 41150274.99 0.1696 0.1301

Jupiter 107953-08-13 23:59 G 41150308.32 41150308.50 41150308.68 0.0509 0.0105

Venus 107955-03-13 17:30 G 41150885.17 41150885.23 41150885.29 0.3663 0.2971

Earth 107957-05-15 02:23 G 41151678.54 41151678.60 41151678.67 0.2655 0.2005

Moon 107957-05-15 03:06 G 41151678.56 41151678.63 41151678.71 0.2655 0.1909 *

Jupiter 107959-01-18 14:08 G 41152292.05 41152292.09 41152292.13 0.0520 0.0488

Jupiter 107959-04-17 19:39 G 41152381.20 41152381.32 41152381.45 0.0517 0.0150

Saturn 107959-05-27 01:11 G 41152420.46 41152420.55 41152420.66 0.0264 0.0222

Saturn 107959-08-23 22:18 G 41152509.24 41152509.43 41152509.61 0.0264 0.0041

Saturn 107959-11-20 18:56 G 41152598.14 41152598.29 41152598.46 0.0264 0.0143

Mars 107962-12-01 20:51 G 41153705.27 41153705.37 41153705.48 0.1703 0.0669

Jupiter 107965-06-01 20:37 G 41154618.22 41154618.36 41154618.50 0.0508 0.0327

Uranus 107970-03-26 19:25 G 41156377.24 41156377.31 41156377.39 0.0138 0.0125

Earth 107970-05-17 19:39 G 41156429.21 41156429.32 41156429.43 0.2654 0.0417

Moon 107970-05-17 20:08 G 41156429.23 41156429.34 41156429.45 0.2649 0.0317 *

Uranus 107970-06-23 02:37 G 41156465.49 41156465.61 41156465.75 0.0138 0.0099

Uranus 107970-09-19 10:03 G 41156553.77 41156553.92 41156554.09 0.0138 0.0072

Uranus 107970-12-16 17:44 G 41156642.06 41156642.24 41156642.42 0.0138 0.0045

Jupiter 107971-02-03 23:59 G 41156691.38 41156691.50 41156691.63 0.0518 0.0020

Uranus 107971-03-15 01:11 G 41156730.36 41156730.55 41156730.74 0.0138 0.0018

Uranus 107971-06-11 08:37 G 41156818.67 41156818.86 41156819.05 0.0138 0.0009

Uranus 107971-09-07 16:03 G 41156906.99 41156907.17 41156907.36 0.0138 0.0036

Uranus 107971-12-04 23:30 G 41156995.32 41156995.48 41156995.66 0.0138 0.0063

Uranus 107972-03-02 06:56 G 41157083.66 41157083.79 41157083.94 0.0137 0.0091

Mars 107972-04-23 07:39 G 41157135.70 41157135.82 41157135.93 0.1710 0.0015

Uranus 107972-05-29 14:23 G 41157172.02 41157172.10 41157172.21 0.0137 0.0118

Pluto 107972-06-11 18:27 G 41157185.22 41157185.27 41157185.35 0.0060 0.0056

Pluto 107972-09-07 19:39 G 41157273.22 41157273.32 41157273.46 0.0060 0.0047

Pluto 107972-12-04 21:06 G 41157361.24 41157361.38 41157361.55 0.0060 0.0037

Pluto 107973-03-02 22:18 G 41157449.28 41157449.43 41157449.62 0.0060 0.0028

Pluto 107973-05-29 23:44 G 41157537.32 41157537.49 41157537.69 0.0060 0.0018

Pluto 107973-08-26 01:25 G 41157625.37 41157625.56 41157625.75 0.0060 0.0008

Saturn 107973-09-28 14:08 G 41157659.05 41157659.09 41157659.12 0.0297 0.0283

Pluto 107973-11-22 02:51 G 41157713.42 41157713.62 41157713.81 0.0060 0.0002

Saturn 107973-12-26 02:37 G 41157747.49 41157747.61 41157747.73 0.0297 0.0105

Pluto 107974-02-18 04:03 G 41157801.48 41157801.67 41157801.86 0.0060 0.0011

Saturn 107974-03-24 14:51 G 41157836.00 41157836.12 41157836.25 0.0297 0.0073

Pluto 107974-05-17 05:15 G 41157889.55 41157889.72 41157889.91 0.0060 0.0021

Saturn 107974-06-21 03:06 G 41157924.56 41157924.63 41157924.70 0.0296 0.0248

Pluto 107974-08-13 06:27 G 41157977.62 41157977.77 41157977.95 0.0060 0.0031

Pluto 107974-11-09 07:39 G 41158065.70 41158065.82 41158065.98 0.0060 0.0041

Pluto 107975-02-05 09:20 G 41158153.79 41158153.89 41158154.00 0.0060 0.0051

Jupiter 107977-06-19 04:03 G 41159018.53 41159018.67 41159018.81 0.0511 0.0336

Mars 107981-09-13 18:27 G 41160566.16 41160566.27 41160566.37 0.1717 0.0651

Mars 107982-10-15 15:06 G 41160962.98 41160963.13 41160963.28 0.1838 0.0833

Jupiter 107982-11-23 04:32 G 41161001.57 41161001.69 41161001.81 0.0518 0.0162

Jupiter 107983-02-20 09:35 G 41161090.84 41161090.90 41161090.95 0.0515 0.0460

Moon 107983-05-20 12:27 G 41161179.92 41161180.02 41161180.12 0.2646 0.1053

Earth 107983-05-20 12:56 G 41161179.94 41161180.04 41161180.13 0.2652 0.1164 *

Saturn 107989-01-09 21:20 G 41163241.21 41163241.39 41163241.57 0.0264 0.0093

Jupiter 107989-04-07 00:56 G 41163328.37 41163328.54 41163328.72 0.0510 0.0116

Saturn 107989-04-08 18:13 G 41163330.08 41163330.26 41163330.44 0.0264 0.0089

Venus 107989-08-20 00:13 G 41163463.47 41163463.51 41163463.55 0.3676 0.3310

Mars 107991-02-04 05:01 G 41163996.64 41163996.71 41163996.78 0.1725 0.1333

Mars 107992-03-06 09:20 G 41164392.74 41164392.89 41164393.04 0.1828 0.0811

Earth 107992-11-20 03:35 G 41164651.49 41164651.65 41164651.81 0.2679 0.0428

Moon 107992-11-20 04:03 G 41164651.52 41164651.67 41164651.83 0.2686 0.0425 *

Mars 107993-01-09 10:03 G 41164701.85 41164701.92 41164701.98 0.1695 0.1384

Neptune 107993-02-12 09:20 G 41164735.89 41164735.89 41164735.94 0.0089 0.0089

Neptune 107993-05-11 12:56 G 41164823.97 41164824.04 41164824.15 0.0089 0.0079

Neptune 107993-08-07 16:32 G 41164912.09 41164912.19 41164912.33 0.0089 0.0069

Neptune 107993-11-03 20:08 G 41165000.22 41165000.34 41165000.51 0.0089 0.0059

Neptune 107994-01-31 00:13 G 41165088.35 41165088.51 41165088.67 0.0089 0.0048

Neptune 107994-04-29 03:49 G 41165176.49 41165176.66 41165176.84 0.0089 0.0038

Neptune 107994-07-26 07:25 G 41165264.63 41165264.81 41165265.00 0.0089 0.0028

Jupiter 107994-09-11 08:23 G 41165311.75 41165311.85 41165311.95 0.0519 0.0328

Neptune 107994-10-22 11:01 G 41165352.78 41165352.96 41165353.16 0.0089 0.0018

Jupiter 107994-12-09 13:39 G 41165400.97 41165401.07 41165401.18 0.0516 0.0301

Neptune 107995-01-18 14:51 G 41165440.93 41165441.12 41165441.31 0.0089 0.0007

Venus 107995-03-05 16:03 G 41165487.08 41165487.17 41165487.26 0.3672 0.1552

Neptune 107995-04-16 18:27 G 41165529.08 41165529.27 41165529.46 0.0089 0.0003

Neptune 107995-07-13 22:03 G 41165617.23 41165617.42 41165617.62 0.0089 0.0014

Neptune 107995-10-10 01:54 G 41165705.39 41165705.58 41165705.76 0.0089 0.0024

Neptune 107996-01-06 05:15 G 41165793.55 41165793.72 41165793.91 0.0089 0.0034

Neptune 107996-04-03 08:51 G 41165881.72 41165881.87 41165882.05 0.0089 0.0045

Neptune 107996-06-30 12:42 G 41165969.88 41165970.03 41165970.19 0.0090 0.0055

Venus 107996-09-21 17:59 G 41166053.10 41166053.25 41166053.40 0.3705 0.0673

Neptune 107996-09-26 16:03 G 41166058.06 41166058.17 41166058.32 0.0090 0.0066

Neptune 107996-12-23 19:54 G 41166146.24 41166146.33 41166146.45 0.0090 0.0076

Neptune 107997-03-21 23:59 G 41166234.45 41166234.50 41166234.55 0.0090 0.0086

Venus 108000-09-18 07:39 G 41167510.72 41167510.82 41167510.93 0.3669 0.0200

109TH MILLENNIUM CE

This is a list of transits of Mercury in the 109th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**108001-01-23 21:49**	**G**	**41167638.23**	**41167638.41**	**41167638.59**	**0.0509**	**0.0106**	
Mars	**108002-06-01 20:51**	**G**	**41168132.27**	**41168132.37**	**41168132.47**	**0.1703**	**0.0743**	
Saturn	**108003-05-15 04:47**	**G**	**41168479.59**	**41168479.70**	**41168479.82**	**0.0297**	**0.0153**	
Earth	**108003-05-16 07:11**	**G**	**41168480.72**	**41168480.80**	**41168480.89**	**0.2655**	**0.1672**	
Moon	**108003-05-16 07:25**	**G**	**41168480.73**	**41168480.81**	**41168480.90**	**0.2649**	**0.1674**	*****
Saturn	**108003-08-11 17:15**	**G**	**41168568.09**	**41168568.22**	**41168568.35**	**0.0297**	**0.0026**	
Saturn	**108003-11-08 05:30**	**G**	**41168656.64**	**41168656.73**	**41168656.83**	**0.0297**	**0.0202**	
Venus	**108006-04-03 23:15**	**G**	**41169534.39**	**41169534.47**	**41169534.56**	**0.3666**	**0.1872**	
Jupiter	**108006-06-30 12:27**	**G**	**41169621.98**	**41169622.02**	**41169622.06**	**0.0520**	**0.0493**	
Jupiter	**108006-09-27 17:59**	**G**	**41169711.13**	**41169711.25**	**41169711.37**	**0.0517**	**0.0144**	
Venus	**108011-10-18 14:51**	**G**	**41171558.10**	**41171558.12**	**41171558.15**	**0.3663**	**0.3525**	
Mars	**108011-10-23 07:39**	**G**	**41171562.71**	**41171562.82**	**41171562.93**	**0.1710**	**0.0098**	
Jupiter	**108012-11-11 18:13**	**G**	**41171948.13**	**41171948.26**	**41171948.40**	**0.0508**	**0.0333**	
Uranus	**108013-03-28 15:20**	**G**	**41172085.09**	**41172085.14**	**41172085.20**	**0.0140**	**0.0126**	
Uranus	**108013-06-24 18:42**	**G**	**41172173.20**	**41172173.28**	**41172173.38**	**0.0140**	**0.0106**	
Uranus	**108013-09-20 22:18**	**G**	**41172261.33**	**41172261.43**	**41172261.54**	**0.0140**	**0.0086**	
Uranus	**108013-12-18 01:54**	**G**	**41172349.46**	**41172349.58**	**41172349.70**	**0.0140**	**0.0066**	
Uranus	**108014-03-16 05:15**	**G**	**41172437.60**	**41172437.72**	**41172437.85**	**0.0140**	**0.0046**	
Uranus	**108014-06-12 08:51**	**G**	**41172525.74**	**41172525.87**	**41172526.00**	**0.0140**	**0.0026**	
Uranus	**108014-09-08 12:13**	**G**	**41172613.88**	**41172614.01**	**41172614.15**	**0.0140**	**0.0007**	
Uranus	**108014-12-05 15:49**	**G**	**41172702.02**	**41172702.16**	**41172702.29**	**0.0140**	**0.0014**	
Uranus	**108015-03-03 19:11**	**G**	**41172790.17**	**41172790.30**	**41172790.43**	**0.0140**	**0.0034**	
Uranus	**108015-05-30 22:32**	**G**	**41172878.32**	**41172878.44**	**41172878.57**	**0.0141**	**0.0054**	
Uranus	**108015-08-27 01:54**	**G**	**41172966.47**	**41172966.58**	**41172966.70**	**0.0141**	**0.0074**	
Uranus	**108015-11-23 05:15**	**G**	**41173054.63**	**41173054.72**	**41173054.83**	**0.0141**	**0.0094**	
Uranus	**108016-02-19 08:51**	**G**	**41173142.80**	**41173142.87**	**41173142.95**	**0.0141**	**0.0113**	
Uranus	**108016-05-17 12:13**	**G**	**41173230.97**	**41173231.01**	**41173231.05**	**0.0141**	**0.0133**	

Moon 108016-05-17 23:44 G 41173231.39 41173231.49 41173231.60 0.2649 0.0164

Earth 108016-05-18 00:27 G 41173231.41 41173231.52 41173231.63 0.2653 0.0094 *

Saturn 108018-05-29 22:47 G 41173973.29 41173973.45 41173973.62 0.0264 0.0126

Jupiter 108018-07-16 22:03 G 41174021.29 41174021.42 41174021.55 0.0518 0.0019

Saturn 108018-08-26 19:39 G 41174062.14 41174062.32 41174062.51 0.0264 0.0056

Saturn 108018-11-23 16:47 G 41174151.12 41174151.20 41174151.28 0.0265 0.0240

Mars 108021-03-14 18:27 G 41174993.16 41174993.27 41174993.38 0.1717 0.0569

Mars 108022-04-15 15:49 G 41175390.02 41175390.16 41175390.30 0.1838 0.0989

Jupiter 108024-11-29 01:25 G 41176348.43 41176348.56 41176348.71 0.0510 0.0328

Moon 108025-11-18 03:06 G 41176702.55 41176702.63 41176702.70 0.2683 0.2368

Moon 108029-05-20 17:01 G 41177982.12 41177982.21 41177982.30 0.2654 0.1344

Earth 108029-05-20 17:30 G 41177982.14 41177982.23 41177982.32 0.2652 0.1488 *

Jupiter 108030-05-05 02:23 G 41178331.48 41178331.60 41178331.72 0.0518 0.0177

Jupiter 108030-08-02 07:25 G 41178420.75 41178420.81 41178420.88 0.0515 0.0447

Mars 108030-08-05 05:01 G 41178423.63 41178423.71 41178423.79 0.1725 0.1248

Mars 108031-09-05 10:18 G 41178819.77 41178819.93 41178820.09 0.1828 0.0637

Mars 108032-07-10 09:49 G 41179128.86 41179128.91 41179128.97 0.1695 0.1467

Saturn 108032-10-01 08:23 G 41179211.75 41179211.85 41179211.95 0.0297 0.0183

Saturn 108032-12-28 20:51 G 41179300.24 41179300.37 41179300.50 0.0297 0.0008

Saturn 108033-03-27 09:06 G 41179388.77 41179388.88 41179388.99 0.0297 0.0171

Jupiter 108036-09-16 21:49 G 41180658.23 41180658.41 41180658.59 0.0510 0.0096

Earth 108038-11-21 10:18 G 41181453.79 41181453.93 41181454.08 0.2680 0.1168

Moon 108038-11-21 11:59 G 41181453.87 41181454.00 41181454.14 0.2678 0.1365 *

Mars 108041-11-30 20:51 G 41182559.27 41182559.37 41182559.47 0.1702 0.0829

Jupiter 108042-02-21 06:42 G 41182641.69 41182641.78 41182641.88 0.0519 0.0333

Jupiter 108042-05-21 12:13 G 41182730.90 41182731.01 41182731.11 0.0516 0.0297

Venus 108046-03-26 21:49 G 41184136.34 41184136.41 41184136.48 0.3675 0.2714

Saturn 108047-10-16 22:03 G 41184705.29 41184705.42 41184705.57 0.0264 0.0176

Saturn 108048-01-13 18:56 G 41184794.10 41184794.29 41184794.48 0.0264 0.0008

Saturn 108048-04-11 16:03 G 41184883.04 41184883.17 41184883.30 0.0264 0.0188

Jupiter 108048-07-05 18:42 G 41184968.11 41184968.28 41184968.46 0.0509 0.0123

Moon 108049-05-16 11:15 G 41185282.88 41185282.97 41185283.07 0.2653 0.1436

Earth 108049-05-16 11:59 G 41185282.91 41185283.00 41185283.09 0.2655 0.1339 *

Mars 108051-04-23 07:39 G 41185989.70 41185989.82 41185989.93 0.1710 0.0181

Venus 108051-10-10 13:39 G 41186159.97 41186160.07 41186160.16 0.3671 0.0982

Venus 108053-04-28 20:08 G 41186726.20 41186726.34 41186726.49 0.3706 0.1096

Jupiter 108053-12-10 10:47 G 41186951.92 41186951.95 41186951.98 0.0520 0.0499

Jupiter 108054-03-09 16:18 G 41187041.05 41187041.18 41187041.30 0.0517 0.0137

Uranus 108054-04-16 02:08 G 41187078.51 41187078.59 41187078.69 0.0138 0.0120

Uranus 108054-07-13 09:20 G 41187166.77 41187166.89 41187167.04 0.0138 0.0094

Uranus 108054-10-09 16:47 G 41187255.05 41187255.20 41187255.38 0.0138 0.0067

Uranus 108055-01-06 00:27 G 41187343.34 41187343.52 41187343.70 0.0138 0.0040

Uranus 108055-04-04 07:54 G 41187431.64 41187431.83 41187432.02 0.0138 0.0013

Uranus 108055-07-01 15:20 G 41187519.95 41187520.14 41187520.33 0.0138 0.0014

Uranus 108055-09-27 22:47 G 41187608.27 41187608.45 41187608.64 0.0138 0.0042

Uranus 108055-12-25 06:13 G 41187696.60 41187696.76 41187696.93 0.0138 0.0069

Uranus 108056-03-22 13:54 G 41187784.95 41187785.08 41187785.22 0.0137 0.0096

Uranus 108056-06-18 21:06 G 41187873.31 41187873.38 41187873.48 0.0137 0.0123

Venus 108057-04-25 05:15 G 41188183.62 41188183.72 41188183.82 0.3668 0.0749

Jupiter 108060-04-23 15:49 G 41189278.03 41189278.16 41189278.30 0.0508 0.0338

Mars 108060-09-12 18:13 G 41189420.15 41189420.26 41189420.37 0.1717 0.0490

Mars 108061-10-14 16:47 G 41189817.08 41189817.20 41189817.33 0.1838 0.1180

Saturn 108062-02-18 10:18 G 41189943.86 41189943.93 41189944.02 0.0298 0.0235

Saturn 108062-05-17 23:01 G 41190032.33 41190032.46 41190032.59 0.0297 0.0055

Moon 108062-05-19 04:32 G 41190033.59 41190033.69 41190033.80 0.2657 0.0155

Earth 108062-05-19 05:15 G 41190033.61 41190033.72 41190033.82 0.2653 0.0259 *

Saturn 108062-08-14 11:15 G 41190120.85 41190120.97 41190121.09 0.0297 0.0122

Venus 108062-11-08 20:51 G 41190207.29 41190207.37 41190207.45 0.3665 0.2430

Saturn 108062-11-10 23:30 G 41190209.48 41190209.48 41190209.48 0.0297 0.0297

Jupiter 108065-12-26 20:23 G 41191351.22 41191351.35 41191351.48 0.0517 0.0025

Pluto 108068-03-04 11:15 G 41192149.90 41192149.97 41192150.06 0.0084 0.0066

Pluto 108068-05-31 12:27 G 41192237.92 41192238.02 41192238.14 0.0084 0.0048

Pluto 108068-08-27 13:39 G 41192325.95 41192326.07 41192326.20 0.0084 0.0030

Pluto 108068-11-23 15:06 G 41192414.00 41192414.13 41192414.26 0.0084 0.0011

Pluto 108069-02-19 16:18 G 41192502.05 41192502.18 41192502.31 0.0084 0.0007

Pluto 108069-05-18 17:15 G 41192590.10 41192590.22 41192590.35 0.0084 0.0026

Pluto 108069-08-14 18:27 G 41192678.16 41192678.27 41192678.39 0.0084 0.0044

Pluto 108069-11-10 19:39 G 41192766.24 41192766.32 41192766.41 0.0084 0.0062

Mars 108070-02-03 05:01 G 41192850.63 41192850.71 41192850.80 0.1725 0.1161

Pluto 108070-02-06 20:51 G 41192854.34 41192854.37 41192854.41 0.0083 0.0080

Mars 108071-03-06 11:15 G 41193246.80 41193246.97 41193247.13 0.1828 0.0473

Earth 108071-11-19 08:23 G 41193504.74 41193504.85 41193504.96 0.2678 0.1950

Moon 108071-11-19 09:49 G 41193504.79 41193504.91 41193505.03 0.2675 0.1796 *

Mars 108072-01-09 09:49 G 41193555.87 41193555.91 41193555.96 0.1695 0.1550

Jupiter 108072-05-10 23:01 G 41193678.33 41193678.46 41193678.61 0.0510 0.0321

Neptune 108073-09-10 16:18 G 41194166.16 41194166.18 41194166.22 0.0088 0.0085

Neptune 108073-12-07 17:44 G 41194254.19 41194254.24 41194254.30 0.0088 0.0078

Neptune 108074-03-05 18:56 G 41194342.22 41194342.29 41194342.38 0.0088 0.0072

Neptune 108074-06-01 20:23 G 41194430.27 41194430.35 41194430.45 0.0088 0.0065

Neptune 108074-08-28 21:35 G 41194518.31 41194518.40 41194518.51 0.0088 0.0058

Neptune 108074-11-24 23:01 G 41194606.36 41194606.46 41194606.57 0.0088 0.0051

Neptune 108075-02-21 00:27 G 41194694.41 41194694.52 41194694.64 0.0088 0.0044

Neptune 108075-05-20 01:39 G 41194782.46 41194782.57 41194782.70 0.0088 0.0038

Earth 108075-05-21 22:18 G 41194784.35 41194784.43 41194784.51 0.2651 0.1812

Moon 108075-05-21 22:32 G 41194784.37 41194784.44 41194784.52 0.2658 0.1900 *

Neptune 108075-08-16 03:06 G 41194870.51 41194870.63 41194870.76 0.0088 0.0031

Neptune 108075-11-12 04:32 G 41194958.56 41194958.69 41194958.81 0.0088 0.0024

Neptune 108076-02-08 05:44 G 41195046.61 41195046.74 41195046.87 0.0088 0.0017

Neptune 108076-05-06 06:56 G 41195134.66 41195134.79 41195134.93 0.0088 0.0011

Neptune 108076-08-02 08:23 G 41195222.72 41195222.85 41195222.98 0.0088 0.0004

Neptune 108076-10-29 09:35 G 41195310.77 41195310.90 41195311.04 0.0088 0.0004

Neptune 108077-01-25 11:01 G 41195398.83 41195398.96 41195399.09 0.0088 0.0010

Saturn 108077-03-04 23:30 G 41195437.37 41195437.48 41195437.60 0.0264 0.0210

Neptune 108077-04-23 12:13 G 41195486.88 41195487.01 41195487.14 0.0088 0.0016

Saturn 108077-06-01 20:23 G 41195526.16 41195526.35 41195526.54 0.0264 0.0029

Neptune 108077-07-20 13:25 G 41195574.94 41195575.06 41195575.19 0.0088 0.0023

Saturn 108077-08-29 17:15 G 41195615.07 41195615.22 41195615.38 0.0264 0.0154

Jupiter 108077-10-15 00:13 G 41195661.39 41195661.51 41195661.63 0.0519 0.0191

Neptune 108077-10-16 14:37 G 41195662.99 41195663.11 41195663.24 0.0088 0.0030

Jupiter 108078-01-12 05:30 G 41195750.66 41195750.73 41195750.80 0.0516 0.0435

Neptune 108078-01-12 16:03 G 41195751.05 41195751.17 41195751.29 0.0088 0.0036

Neptune 108078-04-10 17:15 G 41195839.11 41195839.22 41195839.34 0.0088 0.0043

Neptune 108078-07-07 18:27 G 41195927.17 41195927.27 41195927.39 0.0088 0.0050

Neptune 108078-10-03 19:54 G 41196015.23 41196015.33 41196015.43 0.0088 0.0056

Neptune 108078-12-30 21:06 G 41196103.30 41196103.38 41196103.48 0.0088 0.0063

Neptune 108079-03-28 22:18 G 41196191.36 41196191.43 41196191.52 0.0088 0.0070

Neptune 108079-06-24 23:44 G 41196279.43 41196279.49 41196279.56 0.0088 0.0076

Neptune 108079-09-21 00:56 G 41196367.50 41196367.54 41196367.59 0.0088 0.0083

Mars 108081-05-31 20:51 G 41196986.27 41196986.37 41196986.47 0.1702 0.0914

Earth 108082-05-14 23:30 G 41197334.46 41197334.48 41197334.50 0.2656 0.2601

Jupiter 108084-02-27 19:25 G 41197988.13 41197988.31 41197988.49 0.0509 0.0091

Moon 108084-11-21 17:01 G 41198256.10 41198256.21 41198256.32 0.2673 0.1951

Earth 108084-11-21 17:15 G 41198256.11 41198256.22 41198256.33 0.2680 0.1923 *

Jupiter 108089-08-03 04:32 G 41199971.60 41199971.69 41199971.79 0.0519 0.0349

Jupiter 108089-10-31 10:03 G 41200060.81 41200060.92 41200061.02 0.0516 0.0283

Mars 108090-10-22 07:25 G 41200416.70 41200416.81 41200416.93 0.1709 0.0270

Saturn 108091-07-08 14:08 G 41200676.03 41200676.09 41200676.15 0.0297 0.0262

Saturn 108091-10-05 02:37 G 41200764.49 41200764.61 41200764.74 0.0297 0.0084

Saturn 108092-01-01 15:06 G 41200853.00 41200853.13 41200853.25 0.0297 0.0094

Saturn 108092-03-30 03:06 G 41200941.59 41200941.63 41200941.69 0.0296 0.0269

Moon 108095-05-17 16:18 G 41202085.08 41202085.18 41202085.28 0.2660 0.1015

Earth 108095-05-17 16:47 G 41202085.10 41202085.20 41202085.30 0.2654 0.1011 *

Jupiter 108095-12-16 15:35 G 41202297.97 41202298.15 41202298.32 0.0509 0.0142

Uranus 108097-04-17 22:18 G 41202786.37 41202786.43 41202786.50 0.0140 0.0122

Uranus 108097-07-15 01:54 G 41202874.49 41202874.58 41202874.67 0.0140 0.0102

Uranus 108097-10-11 05:15 G 41202962.62 41202962.72 41202962.83 0.0140 0.0082

Uranus 108098-01-07 08:51 G 41203050.75 41203050.87 41203050.99 0.0140 0.0062

Uranus 108098-04-05 12:27 G 41203138.89 41203139.02 41203139.14 0.0140 0.0042

Uranus 108098-07-02 15:49 G 41203227.03 41203227.16 41203227.29 0.0140 0.0022

Uranus 108098-09-28 19:25 G 41203315.17 41203315.31 41203315.44 0.0140 0.0005

Uranus 108098-12-25 22:47 G 41203403.32 41203403.45 41203403.58 0.0140 0.0018

Uranus 108099-03-24 02:08 G 41203491.47 41203491.59 41203491.72 0.0140 0.0038

Uranus 108099-06-20 05:30 G 41203579.62 41203579.73 41203579.86 0.0140 0.0058

Uranus 108099-09-16 08:51 G 41203667.77 41203667.87 41203667.99 0.0141 0.0078

Uranus 108099-12-13 12:27 G 41203755.93 41203756.02 41203756.12 0.0141 0.0097

Uranus 108100-03-11 15:49 G 41203844.10 41203844.16 41203844.24 0.0141 0.0117

Mars 108100-03-14 18:13 G 41203847.15 41203847.26 41203847.38 0.1717 0.0407

Uranus 108100-06-07 19:11 G 41203932.28 41203932.30 41203932.34 0.0141 0.0137

Mars 108101-04-15 17:59 G 41204244.14 41204244.25 41204244.36 0.1839 0.1360

Jupiter 108101-05-23 08:51 G 41204281.85 41204281.87 41204281.90 0.0520 0.0505

Jupiter 108101-08-20 14:37 G 41204370.99 41204371.11 41204371.23 0.0517 0.0132

Venus 108102-11-01 19:25 G 41204809.22 41204809.31 41204809.39 0.3674 0.2125

Venus 108104-05-20 13:25 G 41205374.95 41205375.06 41205375.16 0.3702 0.2741

Saturn 108106-07-23 23:01 G 41206169.43 41206169.46 41206169.51 0.0263 0.0257

Saturn 108106-10-20 19:54 G 41206258.15 41206258.33 41206258.51 0.0264 0.0077

Saturn 108107-01-17 16:32 G 41206347.03 41206347.19 41206347.37 0.0264 0.0105

Jupiter 108107-10-05 12:42 G 41206607.90 41206608.03 41206608.16 0.0508 0.0356

Venus 108108-05-17 11:01 G 41206832.86 41206832.96 41206833.06 0.3670 0.0388

Earth 108108-05-20 09:49 G 41206835.81 41206835.91 41206836.02 0.2653 0.0575

Moon 108108-05-20 10:18 G 41206835.83 41206835.93 41206836.04 0.2657 0.0596 *

Mars 108109-08-05 05:01 G 41207277.62 41207277.71 41207277.80 0.1725 0.1084

Venus 108109-12-04 22:32 G 41207399.34 41207399.44 41207399.54 0.3707 0.2867

Mars 108110-09-05 11:59 G 41207673.84 41207674.00 41207674.17 0.1829 0.0306

Mars 108111-07-11 09:49 G 41207982.88 41207982.91 41207982.94 0.1695 0.1631

Jupiter 108113-06-08 18:42 G 41208681.15 41208681.28 41208681.41 0.0517 0.0029

Venus 108113-12-01 02:37 G 41208856.52 41208856.61 41208856.71 0.3667 0.1328

Moon 108117-11-20 14:23 G 41210306.96 41210307.10 41210307.23 0.2673 0.1465

Earth 108117-11-20 15:20 G 41210307.00 41210307.14 41210307.28 0.2679 0.1208 *

Venus 108119-06-16 18:13 G 41210880.21 41210880.26 41210880.32 0.3664 0.2991

Jupiter 108119-10-22 20:37 G 41211008.22 41211008.36 41211008.51 0.0511 0.0315

Mars 108120-11-30 20:37 G 41211413.27 41211413.36 41211413.46 0.1702 0.0995

Saturn 108121-02-22 04:32 G 41211496.58 41211496.69 41211496.81 0.0297 0.0137

Saturn 108121-05-21 17:01 G 41211585.08 41211585.21 41211585.34 0.0297 0.0041

Earth 108121-05-23 03:06 G 41211586.57 41211586.63 41211586.69 0.2651 0.2136

Moon 108121-05-23 03:49 G 41211586.60 41211586.66 41211586.71 0.2651 0.2294 *

Saturn 108121-08-18 05:15 G 41211673.64 41211673.72 41211673.81 0.0297 0.0217

Jupiter 108125-03-27 22:47 G 41212991.33 41212991.45 41212991.57 0.0518 0.0191

Jupiter 108125-06-25 03:49 G 41213080.60 41213080.66 41213080.73 0.0515 0.0433

Moon 108128-05-16 04:03 G 41214136.62 41214136.67 41214136.72 0.2662 0.2298

Earth 108128-05-16 04:18 G 41214136.62 41214136.68 41214136.73 0.2655 0.2270 *

Mars 108130-04-23 07:39 G 41214843.70 41214843.82 41214843.93 0.1709 0.0352

Moon 108130-11-23 22:32 G 41215058.37 41215058.44 41215058.50 0.2678 0.2445

Earth 108130-11-24 00:13 G 41215058.50 41215058.51 41215058.52 0.2680 0.2670 *

Jupiter 108131-08-10 17:15 G 41215318.04 41215318.22 41215318.40 0.0509 0.0087

Saturn 108136-03-08 20:51 G 41216990.20 41216990.37 41216990.54 0.0264 0.0114

Saturn 108136-06-05 17:44 G 41217079.06 41217079.24 41217079.42 0.0264 0.0068

Saturn 108136-09-02 14:37 G 41217168.06 41217168.11 41217168.17 0.0264 0.0252

Jupiter 108137-01-14 02:37 G 41217301.52 41217301.61 41217301.70 0.0520 0.0361

Jupiter 108137-04-13 08:08 G 41217390.73 41217390.84 41217390.94 0.0516 0.0272

Uranus 108138-05-07 08:23 G 41217779.76 41217779.85 41217779.96 0.0138 0.0116

Uranus 108138-08-03 16:03 G 41217868.03 41217868.17 41217868.31 0.0138 0.0089

Uranus 108138-10-30 23:15 G 41217956.31 41217956.47 41217956.65 0.0138 0.0063

Uranus 108139-01-27 06:42 G 41218044.60 41218044.78 41218044.97 0.0138 0.0036

Uranus 108139-04-25 14:23 G 41218132.91 41218133.10 41218133.29 0.0138 0.0008

Uranus 108139-07-22 21:49 G 41218221.22 41218221.41 41218221.60 0.0138 0.0019

Mars 108139-09-13 18:13 G 41218274.15 41218274.26 41218274.38 0.1717 0.0322

Uranus 108139-10-19 05:15 G 41218309.54 41218309.72 41218309.90 0.0138 0.0046

Uranus 108140-01-15 12:56 G 41218397.87 41218398.04 41218398.20 0.0137 0.0073

Uranus 108140-04-12 20:08 G 41218486.22 41218486.34 41218486.48 0.0137 0.0100

Uranus 108140-07-10 03:35 G 41218574.60 41218574.65 41218574.74 0.0137 0.0128

Mars 108140-10-14 18:27 G 41218671.18 41218671.27 41218671.37 0.1839 0.1508

Earth 108141-05-18 21:20 G 41218887.29 41218887.39 41218887.50 0.2654 0.0688

Moon 108141-05-18 21:49 G 41218887.30 41218887.41 41218887.51 0.2659 0.0655 *

Jupiter 108143-05-29 13:39 G 41219627.89 41219628.07 41219628.24 0.0509 0.0140

Jupiter 108149-01-30 12:27 G 41221700.90 41221701.02 41221701.15 0.0517 0.0119

Mars 108149-02-03 05:01 G 41221704.61 41221704.71 41221704.80 0.1724 0.1002

Mars 108150-03-06 13:11 G 41222100.88 41222101.05 41222101.22 0.1829 0.0116

Saturn 108150-07-12 08:08 G 41222228.73 41222228.84 41222228.94 0.0297 0.0168

Saturn 108150-10-08 20:37 G 41222317.22 41222317.36 41222317.49 0.0297 0.0014

Saturn 108151-01-05 08:51 G 41222405.77 41222405.87 41222405.97 0.0297 0.0186

Venus 108153-11-23 00:56 G 41223458.50 41223458.54 41223458.59 0.3676 0.3291

Earth 108154-05-21 14:37 G 41223638.01 41223638.11 41223638.21 0.2653 0.0898

Moon 108154-05-21 15:20 G 41223638.04 41223638.14 41223638.24 0.2653 0.1074 *

Jupiter 108155-03-17 09:35 G 41223937.78 41223937.90 41223938.02 0.0508 0.0372

Neptune 108157-11-10 08:08 G 41224906.79 41224906.84 41224906.93 0.0089 0.0084

Neptune 108158-02-06 11:44 G 41224994.90 41224994.99 41224995.12 0.0089 0.0074

Neptune 108158-05-05 15:20 G 41225083.02 41225083.14 41225083.29 0.0089 0.0064

Mars 108158-06-26 15:20 G 41225135.12 41225135.14 41225135.17 0.1732 0.1693

Neptune 108158-08-01 18:56 G 41225171.15 41225171.29 41225171.46 0.0089 0.0054

Neptune 108158-10-28 23:01 G 41225259.29 41225259.46 41225259.63 0.0089 0.0043

Neptune 108159-01-25 02:37 G 41225347.43   41225347.61   41225347.79 0.0089 0.0033

Neptune 108159-04-23 06:13 G 41225435.57   41225435.76   41225435.95 0.0089 0.0022

Venus   108159-06-08 16:47 G 41225482.11   41225482.20   41225482.30 0.3673 0.1531

Neptune 108159-07-20 09:49 G 41225523.72   41225523.91   41225524.11 0.0089 0.0012

Mars   108159-07-27 07:39 G 41225530.77   41225530.82   41225530.87 0.1819 0.1727

Neptune 108159-10-16 13:39 G 41225611.87   41225612.07   41225612.26 0.0089 0.0003

Neptune 108160-01-12 17:15 G 41225700.03   41225700.22   41225700.41 0.0089 0.0008

Neptune 108160-04-09 20:51 G 41225788.18   41225788.37   41225788.56 0.0089 0.0019

Mars   108160-05-31 20:37 G 41225840.27   41225840.36   41225840.45 0.1702 0.1079

Neptune 108160-07-07 00:27 G 41225876.34   41225876.52   41225876.71 0.0089 0.0029

Neptune 108160-10-03 03:49 G 41225964.50   41225964.66   41225964.85 0.0089 0.0040

Jupiter 108160-11-18 17:15 G 41226011.09   41226011.22   41226011.34 0.0518 0.0035

Venus   108160-12-25 15:20 G 41226047.99   41226048.14   41226048.29 0.3704 0.1037

Neptune 108160-12-30 07:39 G 41226052.67   41226052.82   41226052.99 0.0090 0.0050

Neptune 108161-03-28 11:30 G 41226140.84   41226140.98   41226141.13 0.0090 0.0060

Neptune 108161-06-24 14:51 G 41226229.02   41226229.12   41226229.26 0.0090 0.0071

Neptune 108161-09-20 18:42 G 41226317.21   41226317.28   41226317.37 0.0090 0.0081

Moon   108163-11-21 20:08 G 41227109.19   41227109.34   41227109.50 0.2677 0.0654

Earth   108163-11-21 22:03 G 41227109.26   41227109.42   41227109.58 0.2679 0.0483 *

Venus   108164-12-22 08:37 G 41227505.75   41227505.86   41227505.96 0.3670 0.0208

Saturn   108165-07-26 20:23 G 41227722.21   41227722.35   41227722.51 0.0263 0.0162

Saturn   108165-10-23 17:15 G 41227811.04   41227811.22   41227811.41 0.0264 0.0020

Saturn   108166-01-20 14:08 G 41227899.98   41227900.09   41227900.22 0.0264 0.0202

Jupiter 108167-04-03 17:30 G 41228338.09   41228338.23   41228338.38 0.0511 0.0298

Earth   108167-05-24 07:54 G 41228388.79   41228388.83   41228388.86 0.2651 0.2467

Moon   108167-05-24 08:08 G 41228388.80   41228388.84   41228388.88 0.2645 0.2456 *

Mars   108169-10-22 07:25 G 41229270.70   41229270.81   41229270.92 0.1709 0.0431

Venus   108170-07-08 00:13 G 41229529.42   41229529.51   41229529.60 0.3666 0.1885

Jupiter 108172-09-06 21:20 G 41230321.27   41230321.39   41230321.51 0.0518 0.0193

Jupiter 108172-12-05 02:23 G 41230410.53   41230410.60   41230410.67 0.0515 0.0429

Earth 108174-05-17 09:06 G 41230938.80 41230938.88 41230938.95 0.2655 0.1944

Moon 108174-05-17 09:20 G 41230938.81 41230938.89 41230938.96 0.2662 0.1863 *

Venus 108176-01-21 15:49 G 41231553.13 41231553.16 41231553.18 0.3663 0.3540

Jupiter 108179-01-20 14:37 G 41232647.93 41232648.11 41232648.29 0.0510 0.0080

Mars 108179-03-14 18:13 G 41232701.15 41232701.26 41232701.37 0.1717 0.0237

Saturn 108179-11-29 09:35 G 41232960.82 41232960.90 41232960.99 0.0298 0.0227

Saturn 108180-02-25 22:03 G 41233049.29 41233049.42 41233049.55 0.0297 0.0048

Mars 108180-04-14 19:39 G 41233098.26 41233098.32 41233098.38 0.1839 0.1710

Saturn 108180-05-24 10:32 G 41233137.82 41233137.94 41233138.05 0.0297 0.0130

Uranus 108181-02-10 01:54 G 41233399.56 41233399.58 41233399.60 0.0140 0.0138

Uranus 108181-05-09 05:15 G 41233487.66 41233487.72 41233487.80 0.0140 0.0118

Uranus 108181-08-05 08:51 G 41233575.78 41233575.87 41233575.97 0.0140 0.0098

Uranus 108181-11-01 12:27 G 41233663.91 41233664.02 41233664.13 0.0140 0.0078

Uranus 108182-01-28 15:49 G 41233752.05 41233752.16 41233752.29 0.0140 0.0059

Uranus 108182-04-26 19:25 G 41233840.18 41233840.31 41233840.44 0.0140 0.0038

Uranus 108182-07-23 23:01 G 41233928.33 41233928.46 41233928.59 0.0140 0.0018

Uranus 108182-10-20 02:23 G 41234016.47 41234016.60 41234016.74 0.0140 0.0003

Uranus 108183-01-16 05:59 G 41234104.62 41234104.75 41234104.88 0.0140 0.0022

Uranus 108183-04-14 09:20 G 41234192.77 41234192.89 41234193.02 0.0140 0.0042

Uranus 108183-07-11 12:56 G 41234280.92 41234281.04 41234281.15 0.0140 0.0062

Uranus 108183-10-07 16:18 G 41234369.07 41234369.18 41234369.29 0.0141 0.0082

Uranus 108184-01-03 19:39 G 41234457.23 41234457.32 41234457.41 0.0141 0.0102

Uranus 108184-03-31 23:01 G 41234545.40 41234545.46 41234545.53 0.0141 0.0121

Jupiter 108184-06-26 01:25 G 41234631.46 41234631.56 41234631.65 0.0519 0.0357

Jupiter 108184-09-23 06:42 G 41234720.67 41234720.78 41234720.89 0.0516 0.0273

Earth 108187-05-20 02:08 G 41235689.48 41235689.59 41235689.70 0.2654 0.0354

Moon 108187-05-20 02:51 G 41235689.51 41235689.62 41235689.73 0.2654 0.0264 *

Mars 108188-08-04 05:01 G 41236131.61 41236131.71 41236131.80 0.1724 0.0910

Mars 108189-09-04 13:54 G 41236527.91 41236528.08 41236528.25 0.1829 0.0039

Jupiter 108190-11-08 11:30 G 41236957.81 41236957.98 41236958.16 0.0509 0.0142

Saturn 108194-12-13 20:51 G 41238454.26 41238454.37 41238454.50 0.0264 0.0203

Saturn 108195-03-12 17:44 G 41238543.05 41238543.24 41238543.43 0.0264 0.0023

Saturn 108195-06-09 14:37 G 41238631.96 41238632.11 41238632.26 0.0264 0.0160

Jupiter 108196-07-12 10:47 G 41239030.82 41239030.95 41239031.07 0.0517 0.0111

Mars 108197-12-25 15:20 G 41239562.10 41239562.14 41239562.18 0.1732 0.1608

Mars 108199-01-25 08:37 G 41239957.77 41239957.86 41239957.94 0.1820 0.1565

Mars 108199-11-30 20:37 G 41240267.28 41240267.36 41240267.45 0.1702 0.1168

Earth 108200-05-22 19:25 G 41240440.21 41240440.31 41240440.41 0.2652 0.1228

Moon 108200-05-22 19:54 G 41240440.23 41240440.33 41240440.42 0.2648 0.1302 *

Jupiter 108202-08-28 08:08 G 41241267.72 41241267.84 41241267.97 0.0508 0.0363

Jupiter 108208-05-01 15:06 G 41243341.00 41243341.13 41243341.26 0.0518 0.0045

Saturn 108209-04-18 12:42 G 41243692.98 41243693.03 41243693.10 0.0297 0.0261

Mars 108209-04-23 07:25 G 41243697.70 41243697.81 41243697.92 0.1709 0.0510

Saturn 108209-07-16 01:25 G 41243781.44 41243781.56 41243781.69 0.0297 0.0081

Saturn 108209-10-12 13:54 G 41243869.96 41243870.08 41243870.20 0.0297 0.0097

Moon 108209-11-23 03:35 G 41243911.49 41243911.65 41243911.81 0.2683 0.0029

Earth 108209-11-23 05:01 G 41243911.55 41243911.71 41243911.87 0.2679 0.0269 *

Saturn 108210-01-09 02:08 G 41243958.54 41243958.59 41243958.64 0.0297 0.0272

Venus 108210-06-30 22:32 G 41244131.37 41244131.44 41244131.51 0.3675 0.2692

Jupiter 108214-09-14 14:37 G 41245667.96 41245668.11 41245668.26 0.0510 0.0283

Venus 108216-01-14 14:23 G 41246155.00 41246155.10 41246155.20 0.3672 0.0953

Venus 108217-08-02 17:30 G 41246721.08 41246721.23 41246721.38 0.3705 0.0675

Mars 108218-09-13 18:13 G 41247128.15 41247128.26 41247128.38 0.1716 0.0151

Pluto 108220-01-16 02:08 G 41247617.53 41247617.59 41247617.66 0.0060 0.0056

Jupiter 108220-02-18 19:54 G 41247651.21 41247651.33 41247651.45 0.0519 0.0194

Pluto 108220-04-13 03:06 G 41247705.53 41247705.63 41247705.77 0.0060 0.0047

Jupiter 108220-05-18 00:56 G 41247740.47 41247740.54 41247740.61 0.0515 0.0430

Earth 108220-05-18 13:39 G 41247740.99 41247741.07 41247741.16 0.2655 0.1611

Moon 108220-05-18 14:23 G 41247741.01 41247741.10 41247741.19 0.2656 0.1563 *

Pluto 108220-07-10 04:47 G 41247793.55 41247793.70 41247793.86 0.0060 0.0037

Pluto 108220-10-06 05:44 G 41247881.59 41247881.74 41247881.94 0.0060 0.0028

Pluto 108221-01-02 07:25 G 41247969.63 41247969.81 41247970.00 0.0060 0.0018

Pluto 108221-03-31 08:51 G 41248057.68 41248057.87 41248058.07 0.0060 0.0008

Pluto 108221-06-27 10:18 G 41248145.73 41248145.93 41248146.13 0.0060 0.0002

Venus 108221-07-30 05:59 G 41248178.65 41248178.75 41248178.85 0.3669 0.0774

Pluto 108221-09-23 11:30 G 41248233.79 41248233.98 41248234.18 0.0060 0.0011

Pluto 108221-12-20 12:42 G 41248321.86 41248322.03 41248322.23 0.0060 0.0021

Uranus 108222-03-01 07:39 G 41248392.82 41248392.82 41248392.84 0.0138 0.0138

Pluto 108222-03-18 13:54 G 41248409.93 41248410.08 41248410.27 0.0060 0.0031

Uranus 108222-05-28 15:06 G 41248481.03 41248481.13 41248481.25 0.0138 0.0111

Pluto 108222-06-14 15:35 G 41248498.01 41248498.15 41248498.30 0.0060 0.0041

Uranus 108222-08-24 22:32 G 41248569.29 41248569.44 41248569.59 0.0138 0.0084

Pluto 108222-09-10 16:47 G 41248586.11 41248586.20 41248586.32 0.0060 0.0050

Uranus 108222-11-21 05:44 G 41248657.58 41248657.74 41248657.93 0.0138 0.0058

Pluto 108222-12-07 18:27 G 41248674.27 41248674.27 41248674.27 0.0060 0.0060

Uranus 108223-02-17 13:25 G 41248745.88 41248746.06 41248746.25 0.0138 0.0031

Uranus 108223-05-16 20:51 G 41248834.18 41248834.37 41248834.56 0.0138 0.0004

Uranus 108223-08-13 04:18 G 41248922.50 41248922.68 41248922.87 0.0138 0.0024

Uranus 108223-11-09 11:44 G 41249010.82 41249010.99 41249011.17 0.0137 0.0051

Uranus 108224-02-05 19:25 G 41249099.15 41249099.31 41249099.47 0.0137 0.0078

Saturn 108224-05-02 20:37 G 41249186.31 41249186.36 41249186.43 0.0263 0.0249

Uranus 108224-05-04 02:37 G 41249187.50 41249187.61 41249187.75 0.0137 0.0105

Saturn 108224-07-30 17:30 G 41249275.05 41249275.23 41249275.41 0.0263 0.0070

Uranus 108224-07-31 10:03 G 41249275.89 41249275.92 41249275.99 0.0137 0.0133

Saturn 108224-10-27 14:08 G 41249363.92 41249364.09 41249364.26 0.0263 0.0111

Jupiter 108226-07-03 11:44 G 41249977.81 41249977.99 41249978.17 0.0510 0.0066

Venus 108227-02-12 21:35 G 41250202.33 41250202.40 41250202.48 0.3666 0.2435

Mars 108228-02-04 04:47 G 41250558.60 41250558.70 41250558.80 0.1724 0.0833

Mars 108229-03-06 14:51 G 41250954.95 41250955.12 41250955.29 0.1830 0.0223

Jupiter 108231-12-07 23:59 G 41251961.40 41251961.50 41251961.59 0.0519 0.0355

Jupiter 108232-03-06 05:15 G 41252050.61 41252050.72 41252050.83 0.0516 0.0275

Earth 108233-05-21 06:56 G 41252491.68 41252491.79 41252491.90 0.2653 0.0028

Moon 108233-05-21 07:25 G 41252491.70 41252491.81 41252491.92 0.2649 0.0143 *

Mars 108237-06-26 15:20 G 41253989.09 41253989.14 41253989.20 0.1732 0.1523

Jupiter 108238-04-21 09:06 G 41254287.71 41254287.88 41254288.05 0.0509 0.0147

Neptune 108238-06-09 16:03 G 41254337.14 41254337.17 41254337.23 0.0088 0.0082

Mars 108238-07-27 09:35 G 41254384.79 41254384.90 41254385.01 0.1820 0.1385

Neptune 108238-09-05 17:30 G 41254425.17 41254425.23 41254425.31 0.0088 0.0075

Neptune 108238-12-02 18:56 G 41254513.21 41254513.29 41254513.38 0.0088 0.0068

Saturn 108238-12-03 02:37 G 41254513.49 41254513.61 41254513.72 0.0298 0.0146

Neptune 108239-02-28 20:23 G 41254601.26 41254601.35 41254601.45 0.0088 0.0061

Saturn 108239-03-01 15:06 G 41254602.00 41254602.13 41254602.26 0.0297 0.0034

Neptune 108239-05-27 21:20 G 41254689.30 41254689.39 41254689.51 0.0088 0.0055

Saturn 108239-05-29 03:20 G 41254690.55 41254690.64 41254690.73 0.0297 0.0210

Mars 108239-06-01 20:37 G 41254694.28 41254694.36 41254694.44 0.1702 0.1243

Neptune 108239-08-23 22:47 G 41254777.35 41254777.45 41254777.57 0.0088 0.0048

Neptune 108239-11-20 00:13 G 41254865.40 41254865.51 41254865.63 0.0088 0.0041

Neptune 108240-02-16 01:39 G 41254953.45 41254953.57 41254953.69 0.0088 0.0034

Neptune 108240-05-14 02:51 G 41255041.50 41255041.62 41255041.75 0.0088 0.0028

Neptune 108240-08-10 04:18 G 41255129.55 41255129.68 41255129.81 0.0088 0.0021

Neptune 108240-11-06 05:30 G 41255217.60 41255217.73 41255217.87 0.0088 0.0014

Neptune 108241-02-02 06:56 G 41255305.66 41255305.79 41255305.92 0.0088 0.0007

Neptune 108241-05-01 08:08 G 41255393.71 41255393.84 41255393.98 0.0088 0.0002

Neptune 108241-07-28 09:35 G 41255481.76 41255481.90 41255482.03 0.0088 0.0006

Neptune 108241-10-24 10:47 G 41255569.82 41255569.95 41255570.08 0.0088 0.0013

Neptune 108242-01-20 11:59 G 41255657.88 41255658.00 41255658.13 0.0088 0.0020

Neptune 108242-04-18 13:25 G 41255745.93 41255746.06 41255746.19 0.0088 0.0026

Neptune 108242-07-15 14:37 G 41255833.99 41255834.11 41255834.24 0.0088 0.0033

Neptune 108242-10-11 15:49 G 41255922.05 41255922.16 41255922.28 0.0088 0.0040

Neptune 108243-01-07 17:15 G 41256010.11 41256010.22 41256010.33 0.0088 0.0046

Neptune 108243-04-05 18:27 G 41256098.17 41256098.27 41256098.38 0.0088 0.0053

Neptune 108243-07-02 19:39 G 41256186.23 41256186.32 41256186.42 0.0088 0.0060

Jupiter 108243-09-26 03:49 G 41256271.66 41256271.66 41256271.66 0.0520 0.0520

Neptune 108243-09-28 21:06 G 41256274.29 41256274.38 41256274.47 0.0088 0.0066

Jupiter 108243-12-24 09:35 G 41256360.77 41256360.90 41256361.03 0.0517 0.0118

Neptune 108243-12-25 22:03 G 41256362.36 41256362.42 41256362.51 0.0088 0.0073

Neptune 108244-03-22 23:15 G 41256450.43 41256450.47 41256450.54 0.0088 0.0080

Neptune 108244-06-19 00:42 G 41256538.52 41256538.53 41256538.56 0.0088 0.0086

Moon 108246-05-23 23:59 G 41257242.41 41257242.50 41257242.59 0.2646 0.1467

Earth 108246-05-24 00:13 G 41257242.42 41257242.51 41257242.59 0.2652 0.1559 *

Mars 108248-10-22 07:25 G 41258124.71 41258124.81 41258124.92 0.1709 0.0601

Jupiter 108250-02-07 06:13 G 41258597.64 41258597.76 41258597.89 0.0508 0.0362

Saturn 108253-12-17 17:01 G 41260007.05 41260007.21 41260007.39 0.0264 0.0118

Saturn 108254-03-16 13:54 G 41260095.90 41260096.08 41260096.27 0.0264 0.0064

Saturn 108254-06-13 10:47 G 41260184.89 41260184.95 41260185.02 0.0264 0.0247

Jupiter 108255-10-12 13:25 G 41260670.94 41260671.06 41260671.19 0.0518 0.0051

Earth 108255-11-24 11:59 G 41260713.85 41260714.00 41260714.15 0.2680 0.1018

Moon 108255-11-24 11:59 G 41260713.86 41260714.00 41260714.15 0.2686 0.0945 *

Mars 108258-03-14 18:13 G 41261555.14 41261555.26 41261555.37 0.1716 0.0067

Jupiter 108262-02-24 13:39 G 41262997.92 41262998.07 41262998.22 0.0510 0.0298

Uranus 108265-03-03 09:06 G 41264100.85 41264100.88 41264100.92 0.0140 0.0133

Uranus 108265-05-30 12:42 G 41264188.95 41264189.03 41264189.11 0.0140 0.0113

Uranus 108265-08-26 16:03 G 41264277.08 41264277.17 41264277.28 0.0140 0.0093

Uranus 108265-11-22 19:39 G 41264365.21 41264365.32 41264365.44 0.0140 0.0073

Uranus 108266-02-18 23:15 G 41264453.35 41264453.47 41264453.59 0.0140 0.0053

Uranus 108266-05-18 02:37 G 41264541.49 41264541.61 41264541.75 0.0140 0.0033

Earth 108266-05-19 18:27 G 41264543.17 41264543.27 41264543.36 0.2655 0.1281

Moon 108266-05-19 18:56 G 41264543.19 41264543.29 41264543.39 0.2650 0.1175 *

Uranus 108266-08-14 06:13 G 41264629.63 41264629.76 41264629.89 0.0140 0.0013

Uranus 108266-11-10 09:49 G 41264717.77 41264717.91 41264718.04 0.0140 0.0008

Venus 108267-02-04 20:08 G 41264804.25 41264804.34 41264804.42 0.3674 0.2119

Uranus 108267-02-06 13:11 G 41264805.92 41264806.05 41264806.18 0.0140 0.0027

Uranus 108267-05-05 16:32 G 41264894.07 41264894.19 41264894.32 0.0140 0.0047

Jupiter 108267-07-31 17:59 G 41264981.13 41264981.25 41264981.37 0.0519 0.0202

Uranus 108267-08-01 20:08 G 41264982.22 41264982.34 41264982.46 0.0140 0.0067

Mars 108267-08-05 04:47 G 41264985.60 41264985.70 41264985.81 0.1724 0.0747

Uranus 108267-10-28 23:30 G 41265070.38 41265070.48 41265070.59 0.0141 0.0087

Jupiter 108267-10-28 23:15 G 41265070.40 41265070.47 41265070.54 0.0516 0.0422 *

Uranus 108268-01-25 02:51 G 41265158.54 41265158.62 41265158.71 0.0141 0.0107

Saturn 108268-04-21 05:30 G 41265245.63 41265245.73 41265245.84 0.0297 0.0183

Uranus 108268-04-22 06:13 G 41265246.71 41265246.76 41265246.83 0.0141 0.0127

Saturn 108268-07-18 17:59 G 41265334.12 41265334.25 41265334.38 0.0297 0.0009

Venus 108268-08-23 10:32 G 41265369.86 41265369.94 41265370.02 0.3701 0.3121

Mars 108268-09-04 15:49 G 41265382.00 41265382.16 41265382.33 0.1830 0.0402

Saturn 108268-10-15 06:27 G 41265422.66 41265422.77 41265422.87 0.0297 0.0172

Venus 108272-08-20 11:44 G 41266827.89 41266827.99 41266828.10 0.3671 0.0391

Jupiter 108273-12-13 09:06 G 41267307.70 41267307.88 41267308.06 0.0510 0.0057

Venus 108274-03-09 19:39 G 41267394.20 41267394.32 41267394.44 0.3707 0.2429

Mars 108276-12-25 15:20 G 41268416.08 41268416.14 41268416.20 0.1732 0.1440

Mars 108278-01-25 10:32 G 41268811.81 41268811.94 41268812.06 0.1820 0.1218

Venus 108278-03-06 03:35 G 41268851.55 41268851.65 41268851.74 0.3668 0.1331

Mars 108278-11-30 20:37 G 41269121.29 41269121.36 41269121.43 0.1701 0.1330

Jupiter 108279-05-19 22:32 G 41269291.35 41269291.44 41269291.54 0.0519 0.0353

Moon 108279-05-22 11:44 G 41269293.88 41269293.99 41269294.10 0.2647 0.0275

Earth 108279-05-22 11:44 G 41269293.88 41269293.99 41269294.10 0.2653 0.0312 *

Jupiter 108279-08-17 04:03 G 41269380.56 41269380.67 41269380.78 0.0516 0.0279

Saturn 108283-05-06 16:32 G 41270739.06 41270739.19 41270739.35 0.0263 0.0166

Saturn 108283-08-03 13:25 G 41270827.87 41270828.06 41270828.25 0.0263 0.0014

Venus 108283-09-19 19:11 G 41270875.24 41270875.30 41270875.35 0.3665 0.2995

Saturn 108283-10-31 10:18 G 41270916.80 41270916.93 41270917.06 0.0263 0.0195

Jupiter 108285-10-01 06:27 G 41271617.60 41271617.77 41271617.94 0.0509 0.0157

Mars 108288-04-22 07:25 G 41272551.70 41272551.81 41272551.91 0.1709 0.0679

Earth 108288-11-21 10:03 G 41272764.82 41272764.92 41272765.02 0.2678 0.2090

Moon 108288-11-21 10:03 G 41272764.83 41272764.92 41272765.01 0.2684 0.2187 *

Jupiter 108291-03-08 02:51 G 41273601.60 41273601.62 41273601.64 0.0520 0.0513

Jupiter 108291-06-05 08:23 G 41273690.73 41273690.85 41273690.98 0.0517 0.0125

Moon 108292-05-24 04:18 G 41274044.60 41274044.68 41274044.76 0.2648 0.1824

Earth 108292-05-24 04:47 G 41274044.63 41274044.70 41274044.78 0.2652 0.1885 *

Jupiter 108297-07-20 04:03 G 41275927.55 41275927.67 41275927.80 0.0508 0.0364

Saturn 108297-09-08 06:27 G 41275977.70 41275977.77 41275977.83 0.0298 0.0253

Mars 108297-09-12 18:13 G 41275982.14 41275982.26 41275982.37 0.1716 0.0033

Saturn 108297-12-05 18:56 G 41276066.16 41276066.29 41276066.41 0.0298 0.0073

Saturn 108298-03-04 07:11 G 41276154.68 41276154.80 41276154.93 0.0297 0.0105

Saturn 108298-05-31 19:25 G 41276243.28 41276243.31 41276243.36 0.0297 0.0281

Earth 108299-05-18 05:59 G 41276594.72 41276594.75 41276594.78 0.2656 0.2546

Moon 108299-05-18 06:27 G 41276594.74 41276594.77 41276594.81 0.2652 0.2497 *

Earth 108301-11-25 18:56 G 41277516.16 41277516.29 41277516.41 0.2680 0.1762

Moon 108301-11-25 20:08 G 41277516.24 41277516.34 41277516.44 0.2685 0.2095 *

Jupiter 108303-03-25 12:42 G 41278000.90 41278001.03 41278001.16 0.0518 0.0035

Uranus 108306-03-22 14:23 G 41279094.06 41279094.10 41279094.17 0.0138 0.0132

Uranus 108306-06-18 22:03 G 41279182.30 41279182.42 41279182.54 0.0138 0.0105

Uranus 108306-09-15 05:15 G 41279270.57 41279270.72 41279270.88 0.0138 0.0079

Uranus 108306-12-12 12:42 G 41279358.86 41279359.03 41279359.21 0.0138 0.0052

Mars 108307-02-04 04:47 G 41279412.60 41279412.70 41279412.81 0.1724 0.0660

Uranus 108307-03-10 20:08 G 41279447.16 41279447.34 41279447.53 0.0138 0.0025

Uranus 108307-06-07 03:49 G 41279535.47 41279535.66 41279535.85 0.0138 0.0003

Uranus 108307-09-03 11:01 G 41279623.78 41279623.96 41279624.16 0.0137 0.0030

Uranus 108307-11-30 18:27 G 41279712.11 41279712.27 41279712.46 0.0137 0.0057

Uranus 108308-02-27 02:08 G 41279800.44 41279800.59 41279800.75 0.0137 0.0084

Mars 108308-03-06 16:47 G 41279809.03 41279809.20 41279809.36 0.1830 0.0563

Uranus 108308-05-25 09:35 G 41279888.80 41279888.90 41279889.02 0.0137 0.0111

Jupiter 108309-08-07 11:59 G 41280327.86 41280328.00 41280328.15 0.0510 0.0305

Moon 108312-05-20 23:15 G 41281345.37 41281345.47 41281345.57 0.2647 0.0904

Earth 108312-05-20 23:15 G 41281345.37 41281345.47 41281345.57 0.2654 0.0952 *

Saturn 108312-09-23 15:49 G 41281471.07 41281471.16 41281471.27 0.0263 0.0218

Saturn 108312-12-21 12:42 G 41281559.84 41281560.03 41281560.21 0.0264 0.0039

Saturn 108313-03-20 09:20 G 41281648.74 41281648.89 41281649.05 0.0264 0.0143

Jupiter 108315-01-11 16:32 G 41282311.07 41282311.19 41282311.31 0.0519 0.0201

Jupiter 108315-04-10 21:49 G 41282400.34 41282400.41 41282400.48 0.0516 0.0423

Pluto 108315-07-13 20:08 G 41282494.34 41282494.34 41282494.34 0.0085 0.0084

Pluto 108315-10-09 21:20 G 41282582.31 41282582.39 41282582.47 0.0084 0.0066

Pluto 108316-01-05 22:18 G 41282670.33 41282670.43 41282670.55 0.0084 0.0048

Pluto 108316-04-02 23:30 G 41282758.37 41282758.48 41282758.62 0.0084 0.0030

Mars 108316-06-26 15:20 G 41282843.07 41282843.14 41282843.21 0.1731 0.1356

Pluto 108316-06-30 00:56 G 41282846.41 41282846.54 41282846.67 0.0084 0.0010

Pluto 108316-09-26 02:08 G 41282934.46 41282934.59 41282934.72 0.0084 0.0008

Pluto 108316-12-23 03:20 G 41283022.51 41283022.64 41283022.77 0.0084 0.0026

Pluto 108317-03-21 04:18 G 41283110.58 41283110.68 41283110.80 0.0084 0.0045

Pluto 108317-06-17 05:30 G 41283198.65 41283198.73 41283198.83 0.0084 0.0063

Mars 108317-07-27 11:15 G 41283238.83 41283238.97 41283239.11 0.1821 0.1059

Pluto 108317-09-13 06:42 G 41283286.76 41283286.78 41283286.82 0.0083 0.0080

Venus 108318-02-27 01:39 G 41283453.53 41283453.57 41283453.62 0.3677 0.3283

Mars 108318-06-01 20:37 G 41283548.30 41283548.36 41283548.42 0.1701 0.1416

Jupiter 108321-05-26 08:37 G 41284637.68 41284637.86 41284638.04 0.0509 0.0080

Neptune 108322-05-13 03:20 G 41284989.63 41284989.64 41284989.68 0.0089 0.0089

Neptune 108322-08-09 06:56 G 41285077.71 41285077.79 41285077.90 0.0089 0.0078

Neptune 108322-11-05 10:32 G 41285165.83 41285165.94 41285166.08 0.0089 0.0068

Neptune 108323-02-01 14:08 G 41285253.96 41285254.09 41285254.25 0.0089 0.0058

Neptune 108323-04-30 18:13 G 41285342.09 41285342.26 41285342.42 0.0089 0.0048

Neptune 108323-07-27 21:35 G 41285430.23 41285430.40 41285430.58 0.0089 0.0038

Venus 108323-09-12 17:30 G 41285477.14 41285477.23 41285477.33 0.3674 0.1528

Neptune 108323-10-24 01:11 G 41285518.37 41285518.55 41285518.74 0.0089 0.0028

Neptune 108324-01-20 04:47 G 41285606.52 41285606.70 41285606.90 0.0089 0.0018

Neptune 108324-04-17 08:37 G 41285694.67 41285694.86 41285695.05 0.0089 0.0007

Neptune 108324-07-14 12:13 G 41285782.82 41285783.01 41285783.21 0.0089 0.0004

Neptune 108324-10-10 15:49 G 41285870.97 41285871.16 41285871.36 0.0089 0.0014

Neptune 108325-01-06 19:39 G 41285959.13 41285959.32 41285959.51 0.0089 0.0024

Venus 108325-03-31 12:42 G 41286042.89 41286043.03 41286043.17 0.3703 0.1436

Neptune 108325-04-04 23:01 G 41286047.29 41286047.46 41286047.65 0.0089 0.0034

Moon 108325-05-23 15:49 G 41286096.05 41286096.16 41286096.27 0.2650 0.0493

Earth 108325-05-23 16:32 G 41286096.08 41286096.19 41286096.29 0.2653 0.0643 *

Neptune 108325-07-02 02:37 G 41286135.46 41286135.61 41286135.79 0.0090 0.0045

Neptune 108325-09-28 06:27 G 41286223.63 41286223.77 41286223.93 0.0090 0.0055

Neptune 108325-12-25 10:18 G 41286311.80 41286311.93 41286312.06 0.0090 0.0065

Neptune 108326-03-23 13:39 G 41286399.98 41286400.07 41286400.19 0.0090 0.0076

Neptune 108326-06-19 17:30 G 41286488.19 41286488.23 41286488.29 0.0090 0.0086

Jupiter 108326-10-30 21:06 G 41286621.28 41286621.38 41286621.47 0.0519 0.0357

Saturn 108327-01-27 08:51 G 41286709.87 41286709.87 41286709.88 0.0297 0.0297

Jupiter 108327-01-28 02:23 G 41286710.50 41286710.60 41286710.71 0.0516 0.0275

Saturn 108327-04-25 21:20 G 41286798.27 41286798.39 41286798.51 0.0297 0.0117

Saturn 108327-07-23 09:49 G 41286886.79 41286886.91 41286887.04 0.0297 0.0062

Saturn 108327-10-19 22:18 G 41286975.35 41286975.43 41286975.50 0.0297 0.0238

Mars 108327-10-23 07:25 G 41286978.70 41286978.81 41286978.91 0.1708 0.0766

Venus 108329-03-28 09:20 G 41287500.79 41287500.89 41287500.99 0.3670 0.0202

Jupiter 108333-03-14 04:18 G 41288947.51 41288947.68 41288947.85 0.0509 0.0160

Venus 108334-10-12 00:56 G 41289524.45 41289524.54 41289524.63 0.3667 0.1887

Earth 108334-11-23 16:47 G 41289567.06 41289567.20 41289567.34 0.2678 0.1368

Moon 108334-11-23 18:27 G 41289567.12 41289567.27 41289567.41 0.2682 0.1181 *

Mars 108337-03-14 18:13 G 41290409.14 41290409.26 41290409.37 0.1716 0.0117

Moon 108338-05-26 09:06 G 41290846.81 41290846.88 41290846.94 0.2654 0.2117

Earth 108338-05-26 09:35 G 41290846.84 41290846.90 41290846.96 0.2651 0.2208 *

Jupiter 108338-08-19 01:39 G 41290931.54 41290931.57 41290931.59 0.0520 0.0507

Jupiter 108338-11-16 07:25 G 41291020.68 41291020.81 41291020.93 0.0517 0.0131

Venus 108340-04-26 16:32 G 41291548.17 41291548.19 41291548.21 0.3664 0.3544

Saturn 108342-05-10 12:13 G 41292291.83 41292292.01 41292292.19 0.0263 0.0088

Saturn 108342-08-07 08:51 G 41292380.69 41292380.87 41292381.05 0.0263 0.0092

Jupiter 108344-12-31 01:39 G 41293257.45 41293257.57 41293257.70 0.0508 0.0369

Moon 108345-05-19 10:47 G 41293396.88 41293396.95 41293397.01 0.2649 0.2165

Earth 108345-05-19 10:47 G 41293396.89 41293396.95 41293397.01 0.2656 0.2214 *

Mars 108346-08-05 04:47 G 41293839.59 41293839.70 41293839.81 0.1724 0.0580

Mars 108347-09-05 17:30 G 41294236.08 41294236.23 41294236.39 0.1830 0.0738

Earth 108347-11-27 01:39 G 41294318.52 41294318.57 41294318.63 0.2680 0.2507

Uranus 108349-03-24 16:03 G 41294802.13 41294802.17 41294802.23 0.0140 0.0129

Uranus 108349-06-20 19:54 G 41294890.25 41294890.33 41294890.41 0.0140 0.0108

Uranus 108349-09-16 23:30 G 41294978.37 41294978.48 41294978.58 0.0140 0.0088

Uranus 108349-12-14 02:51 G 41295066.51 41295066.62 41295066.74 0.0140 0.0068

Uranus 108350-03-12 06:27 G 41295154.64 41295154.77 41295154.90 0.0140 0.0048

Uranus 108350-06-08 09:49 G 41295242.78 41295242.91 41295243.05 0.0140 0.0029

Jupiter 108350-09-04 11:44 G 41295330.86 41295330.99 41295331.12 0.0518 0.0024

Uranus 108350-09-04 13:25 G 41295330.93 41295331.06 41295331.19 0.0140 0.0008 *

Uranus 108350-12-01 17:01 G 41295419.07 41295419.21 41295419.34 0.0140 0.0012

Uranus 108351-02-27 20:23 G 41295507.22 41295507.35 41295507.48 0.0140 0.0032

Uranus 108351-05-26 23:59 G 41295595.37 41295595.50 41295595.62 0.0141 0.0052

Uranus 108351-08-23 03:20 G 41295683.53 41295683.64 41295683.75 0.0141 0.0072

Uranus 108351-11-19 06:42 G 41295771.69 41295771.78 41295771.88 0.0141 0.0092

Uranus 108352-02-15 10:03 G 41295859.85 41295859.92 41295860.01 0.0141 0.0112

Uranus 108352-05-13 13:25 G 41295948.03 41295948.06 41295948.12 0.0141 0.0132

Mars 108355-12-26 15:20 G 41297270.06 41297270.14 41297270.22 0.1731 0.1269

Saturn 108356-09-11 21:49 G 41297530.31 41297530.41 41297530.51 0.0298 0.0191

Saturn 108356-12-09 10:18 G 41297618.80 41297618.93 41297619.06 0.0298 0.0012

Jupiter 108357-01-17 10:03 G 41297657.78 41297657.92 41297658.07 0.0511 0.0306

Mars 108357-01-25 12:27 G 41297665.87 41297666.02 41297666.17 0.1821 0.0871

Saturn 108357-03-07 22:47 G 41297707.34 41297707.45 41297707.56 0.0297 0.0166

Mars 108357-11-30 20:23 G 41297975.30 41297975.35 41297975.41 0.1701 0.1498

Moon 108358-05-22 03:20 G 41298147.54 41298147.64 41298147.75 0.2651 0.0771

Earth 108358-05-22 04:03 G 41298147.56 41298147.67 41298147.77 0.2654 0.0616 *

Jupiter 108362-06-23 16:03 G 41299641.05 41299641.17 41299641.29 0.0518 0.0183

Jupiter 108362-09-20 21:06 G 41299730.32 41299730.38 41299730.45 0.0515 0.0439

Mars 108367-04-23 07:25 G 41301405.71 41301405.81 41301405.91 0.1708 0.0853

Jupiter 108368-11-05 07:25 G 41301967.63 41301967.81 41301967.99 0.0510 0.0090

Moon 108371-05-24 20:37 G 41302898.26 41302898.36 41302898.46 0.2655 0.0924

Earth 108371-05-24 21:06 G 41302898.28 41302898.38 41302898.48 0.2653 0.0971 *

Saturn 108371-09-27 10:32 G 41303023.79 41303023.94 41303024.10 0.0263 0.0146

Saturn 108371-12-25 07:11 G 41303112.62 41303112.80 41303112.99 0.0263 0.0034

Saturn 108372-03-23 03:49 G 41303201.56 41303201.66 41303201.78 0.0264 0.0216

Jupiter 108374-04-11 19:54 G 41303951.23 41303951.33 41303951.42 0.0519 0.0350

Jupiter 108374-07-10 01:11 G 41304040.45 41304040.55 41304040.66 0.0516 0.0281

Venus 108374-10-03 23:15 G 41304126.40 41304126.47 41304126.54 0.3676 0.2690

Mars 108376-09-12 18:13 G 41304836.14 41304836.26 41304836.37 0.1716 0.0194

Venus 108380-04-18 15:06 G 41306150.03 41306150.13 41306150.23 0.3673 0.0942

Jupiter 108380-08-24 04:18 G 41306277.50 41306277.68 41306277.85 0.0509 0.0131

Earth 108380-11-23 23:44 G 41306369.33 41306369.49 41306369.65 0.2679 0.0620

Moon 108380-11-24 01:39 G 41306369.40 41306369.57 41306369.73 0.2677 0.0231 *

Venus 108381-11-05 14:51 G 41306715.96 41306716.12 41306716.27 0.3704 0.0294

Moon 108384-05-26 14:23 G 41307649.06 41307649.10 41307649.13 0.2658 0.2483

Earth 108384-05-26 14:23 G 41307649.07 41307649.10 41307649.13 0.2651 0.2533 *

Venus 108385-11-02 06:42 G 41308173.68 41308173.78 41308173.89 0.3669 0.0786

Jupiter 108386-01-29 00:13 G 41308261.48 41308261.51 41308261.53 0.0520 0.0507

Saturn 108386-01-29 23:59 G 41308262.43 41308262.50 41308262.58 0.0297 0.0239

Mars 108386-02-03 04:47 G 41308266.59 41308266.70 41308266.81 0.1723 0.0497

Jupiter 108386-04-28 05:59 G 41308350.62 41308350.75 41308350.87 0.0517 0.0131

Saturn 108386-04-28 12:42 G 41308350.90 41308351.03 41308351.16 0.0297 0.0059

Saturn 108386-07-26 01:11 G 41308439.43 41308439.55 41308439.67 0.0297 0.0119

Saturn 108386-10-22 13:25 G 41308528.05 41308528.06 41308528.07 0.0297 0.0295

Mars 108387-03-06 18:42 G 41308663.14 41308663.28 41308663.43 0.1831 0.0930

Uranus 108390-04-11 22:03 G 41309795.34 41309795.42 41309795.50 0.0138 0.0124

Uranus 108390-07-09 05:15 G 41309883.59 41309883.72 41309883.86 0.0138 0.0098

Uranus 108390-10-05 12:42 G 41309971.87 41309972.03 41309972.20 0.0138 0.0071

Uranus 108391-01-01 20:08 G 41310060.16 41310060.34 41310060.52 0.0138 0.0044

Uranus 108391-03-31 03:35 G 41310148.46 41310148.65 41310148.84 0.0138 0.0017

Venus 108391-05-18 22:32 G 41310197.36 41310197.44 41310197.51 0.3666 0.2453

Moon 108391-05-20 14:51 G 41310199.05 41310199.12 41310199.20 0.2651 0.1958

Earth 108391-05-20 15:35 G 41310199.07 41310199.15 41310199.22 0.2655 0.1879 *

Uranus 108391-06-27 11:01 G 41310236.77 41310236.96 41310237.15 0.0138 0.0010

Uranus 108391-09-23 18:27 G 41310325.09 41310325.27 41310325.46 0.0137 0.0037

Uranus 108391-12-21 01:54 G 41310413.42 41310413.58 41310413.76 0.0137 0.0064

Uranus 108392-03-18 09:20 G 41310501.76 41310501.89 41310502.04 0.0137 0.0091

Jupiter 108392-06-11 23:59 G 41310587.37 41310587.50 41310587.62 0.0508 0.0366

Uranus 108392-06-14 16:47 G 41310590.12 41310590.20 41310590.31 0.0137 0.0118

Mars 108395-06-26 15:20 G 41311697.06 41311697.14 41311697.22 0.1731 0.1187

Mars 108396-07-26 13:11 G 41312092.89 41312093.05 41312093.21 0.1821 0.0711

Mars 108397-05-31 20:23 G 41312402.31 41312402.35 41312402.39 0.1701 0.1582

Jupiter 108398-02-14 10:47 G 41312660.82 41312660.95 41312661.08 0.0518 0.0014

Saturn 108401-02-13 09:49 G 41313755.80 41313755.91 41313756.05 0.0263 0.0196

Saturn 108401-05-13 06:42 G 41313844.59 41313844.78 41313844.97 0.0263 0.0017

Saturn 108401-08-10 03:06 G 41313933.49 41313933.63 41313933.79 0.0263 0.0165

Neptune 108402-12-09 14:37 G 41314420.09 41314420.11 41314420.15 0.0088 0.0085

Neptune 108403-03-07 16:03 G 41314508.12 41314508.17 41314508.24 0.0088 0.0078

Neptune 108403-06-03 17:15 G 41314596.16 41314596.22 41314596.31 0.0088 0.0072

Neptune 108403-08-30 18:42 G 41314684.20 41314684.28 41314684.38 0.0088 0.0065

Neptune 108403-11-26 20:08 G 41314772.24 41314772.34 41314772.44 0.0088 0.0058

Neptune 108404-02-22 21:35 G 41314860.29 41314860.40 41314860.51 0.0088 0.0051

Neptune 108404-05-20 22:32 G 41314948.34 41314948.44 41314948.57 0.0088 0.0045

Moon 108404-05-22 08:08 G 41314949.73 41314949.84 41314949.95 0.2657 0.0388

Earth 108404-05-22 08:51 G 41314949.76 41314949.87 41314949.97 0.2654 0.0297 *

Jupiter 108404-06-29 07:54 G 41314987.69 41314987.83 41314987.98 0.0510 0.0304

Neptune 108404-08-16 23:59 G 41315036.39 41315036.50 41315036.63 0.0088 0.0038

Neptune 108404-11-13 01:25 G 41315124.44 41315124.56 41315124.69 0.0088 0.0031

Neptune 108405-02-09 02:51 G 41315212.49 41315212.62 41315212.75 0.0088 0.0024

Neptune 108405-05-08 04:03 G 41315300.54 41315300.67 41315300.80 0.0088 0.0018

Neptune 108405-08-04 05:30 G 41315388.59 41315388.73 41315388.86 0.0088 0.0011

Neptune 108405-10-31 06:42 G 41315476.65 41315476.78 41315476.91 0.0088 0.0004

Neptune 108406-01-27 07:54 G 41315564.70 41315564.83 41315564.97 0.0088 0.0004

Neptune 108406-04-25 09:20 G 41315652.76 41315652.89 41315653.02 0.0088 0.0009

Neptune 108406-07-22 10:32 G 41315740.81 41315740.94 41315741.07 0.0088 0.0016

Neptune 108406-10-18 11:44 G 41315828.87 41315828.99 41315829.12 0.0088 0.0023

Mars 108406-10-22 07:11 G 41315832.71 41315832.80 41315832.90 0.1708 0.0934

Neptune 108407-01-14 13:11 G 41315916.92 41315917.05 41315917.17 0.0088 0.0029

Neptune 108407-04-12 14:23 G 41316004.98 41316005.10 41316005.22 0.0088 0.0036

Neptune 108407-07-09 15:35 G 41316093.04 41316093.15 41316093.27 0.0088 0.0043

Neptune 108407-10-05 17:01 G 41316181.10 41316181.21 41316181.32 0.0088 0.0049

Neptune 108408-01-01 18:13 G 41316269.16 41316269.26 41316269.37 0.0088 0.0056

Neptune 108408-03-29 19:25 G 41316357.23 41316357.31 41316357.41 0.0088 0.0063

Neptune 108408-06-25 20:51 G 41316445.29 41316445.37 41316445.45 0.0088 0.0069

Neptune 108408-09-21 21:49 G 41316533.36 41316533.41 41316533.49 0.0088 0.0076

Neptune 108408-12-18 23:01 G 41316621.43 41316621.46 41316621.52 0.0088 0.0083

Jupiter 108409-12-03 15:06 G 41316971.01 41316971.13 41316971.26 0.0518 0.0170

Jupiter 108410-03-02 20:23 G 41317060.29 41317060.35 41317060.41 0.0515 0.0452

Saturn 108415-09-15 12:56 G 41319082.92 41319083.04 41319083.16 0.0298 0.0136

Saturn 108415-12-13 01:25 G 41319171.43 41319171.56 41319171.69 0.0298 0.0043

Saturn 108416-03-10 13:39 G 41319259.99 41319260.07 41319260.16 0.0297 0.0220

Mars 108416-03-13 17:59 G 41319263.14 41319263.25 41319263.37 0.1716 0.0271

Jupiter 108416-04-17 05:30 G 41319297.55 41319297.73 41319297.91 0.0510 0.0094

Moon 108417-05-25 01:54 G 41319700.48 41319700.58 41319700.67 0.2659 0.1263

Earth 108417-05-25 01:54 G 41319700.49 41319700.58 41319700.68 0.2652 0.1296 *

Jupiter 108421-09-21 19:25 G 41321281.21 41321281.31 41321281.41 0.0519 0.0329

Jupiter 108421-12-20 00:42 G 41321370.43 41321370.53 41321370.64 0.0516 0.0301

Mars 108425-08-04 04:47 G 41322693.59 41322693.70 41322693.81 0.1723 0.0404

Mars 108426-09-04 19:25 G 41323090.17 41323090.31 41323090.44 0.1831 0.1081

Earth 108426-11-25 06:42 G 41323171.61 41323171.78 41323171.94 0.2679 0.0137

Moon 108426-11-25 07:11 G 41323171.63 41323171.80 41323171.96 0.2673 0.0144 *

Jupiter 108428-02-04 03:06 G 41323607.45 41323607.63 41323607.81 0.0509 0.0118

Saturn 108430-07-03 07:54 G 41324487.81 41324487.83 41324487.87 0.0263 0.0258

Saturn 108430-09-30 04:32 G 41324576.51 41324576.69 41324576.87 0.0263 0.0080

Saturn 108430-12-28 01:11 G 41324665.38 41324665.55 41324665.73 0.0263 0.0101

Venus 108431-05-10 20:51 G 41324799.28 41324799.37 41324799.45 0.3675 0.2098

Venus 108432-11-26 08:08 G 41325364.78 41325364.84 41325364.89 0.3700 0.3443

Uranus 108433-04-13 23:30 G 41325503.42 41325503.48 41325503.54 0.0140 0.0124

Jupiter 108433-07-10 23:15 G 41325591.43 41325591.47 41325591.50 0.0520 0.0497

Uranus 108433-07-11 02:51 G 41325591.54 41325591.62 41325591.72 0.0140 0.0104

Uranus 108433-10-07 06:42 G 41325679.67 41325679.78 41325679.89 0.0140 0.0084

Jupiter 108433-10-08 04:47 G 41325680.58 41325680.70 41325680.83 0.0517 0.0141

Uranus 108434-01-03 10:03 G 41325767.81 41325767.92 41325768.04 0.0140 0.0064

Uranus 108434-04-01 13:39 G 41325855.94 41325856.07 41325856.20 0.0140 0.0044

Uranus 108434-06-28 17:15 G 41325944.09 41325944.22 41325944.35 0.0140 0.0024

Uranus 108434-09-24 20:37 G 41326032.23 41326032.36 41326032.50 0.0140 0.0004

Uranus 108434-12-22 00:13 G 41326120.37 41326120.51 41326120.64 0.0141 0.0017

Mars 108434-12-25 15:20 G 41326124.05 41326124.14 41326124.22 0.1731 0.1104

Uranus 108435-03-20 03:35 G 41326208.52 41326208.65 41326208.78 0.0141 0.0037

Uranus 108435-06-16 06:56 G 41326296.68 41326296.79 41326296.92 0.0141 0.0057

Uranus 108435-09-12 10:32 G 41326384.83 41326384.94 41326385.05 0.0141 0.0077

Uranus 108435-12-09 13:54 G 41326472.99 41326473.08 41326473.18 0.0141 0.0096

Mars 108436-01-25 13:54 G 41326519.92 41326520.08 41326520.25 0.1821 0.0545

Uranus 108436-03-06 17:30 G 41326561.16 41326561.23 41326561.30 0.0141 0.0116

Uranus 108436-06-02 20:51 G 41326649.34 41326649.37 41326649.40 0.0141 0.0136

Venus 108436-11-23 12:42 G 41326822.92 41326823.03 41326823.13 0.3672 0.0372

Mars 108436-11-29 20:23 G 41326829.34 41326829.35 41326829.37 0.1701 0.1670

Moon 108437-05-20 19:39 G 41327001.24 41327001.32 41327001.40 0.2658 0.1708

Earth 108437-05-20 20:23 G 41327001.26 41327001.35 41327001.43 0.2655 0.1547 *

Venus 108438-06-12 17:01 G 41327389.08 41327389.21 41327389.34 0.3705 0.2023

Jupiter 108439-11-23 00:13 G 41327917.37 41327917.51 41327917.64 0.0508 0.0334

Venus 108442-06-09 04:18 G 41328846.59 41328846.68 41328846.78 0.3669 0.1342

Saturn 108445-02-01 14:51 G 41329815.02 41329815.12 41329815.22 0.0297 0.0187

Saturn 108445-05-01 03:20 G 41329903.51 41329903.64 41329903.78 0.0297 0.0012

Jupiter 108445-07-27 09:35 G 41329990.77 41329990.90 41329991.03 0.0518 0.0017

Saturn 108445-07-28 15:49 G 41329992.05 41329992.16 41329992.27 0.0297 0.0170

Mars 108446-04-22 07:11 G 41330259.71 41330259.80 41330259.89 0.1708 0.1016

Venus 108447-12-23 19:54 G 41330870.28 41330870.33 41330870.39 0.3665 0.3008

Moon 108450-05-23 13:25 G 41331751.95 41331752.06 41331752.16 0.2660 0.0118

Earth 108450-05-23 13:25 G 41331751.95 41331752.06 41331752.17 0.2654 0.0091 *

Jupiter 108451-12-10 06:13 G 41332317.62 41332317.76 41332317.91 0.0510 0.0310

Mars 108455-09-12 17:59 G 41333690.14 41333690.25 41333690.37 0.1715 0.0360

Jupiter 108457-05-15 14:08 G 41334300.97 41334301.09 41334301.22 0.0519 0.0159

Jupiter 108457-08-12 19:25 G 41334390.26 41334390.31 41334390.37 0.0516 0.0465

Saturn 108460-02-17 04:03 G 41335308.51 41335308.67 41335308.84 0.0263 0.0129

Saturn 108460-05-16 00:42 G 41335397.34 41335397.53 41335397.72 0.0263 0.0050

Saturn 108460-08-12 21:20 G 41335486.31 41335486.39 41335486.48 0.0263 0.0232

Earth 108463-05-26 06:42 G 41336502.69 41336502.78 41336502.86 0.2652 0.1625

Moon 108463-05-26 07:11 G 41336502.72 41336502.80 41336502.88 0.2656 0.1674 *

Jupiter 108463-09-28 03:35 G 41336627.47 41336627.65 41336627.83 0.0510 0.0095

Mars 108465-02-02 04:32 G 41337120.58 41337120.69 41337120.81 0.1723 0.0330

Mars 108466-03-05 20:23 G 41337517.23 41337517.35 41337517.47 0.1831 0.1267

Pluto 108467-05-24 09:49 G 41337961.91 41337961.91 41337961.92 0.0059 0.0059

Pluto 108467-08-20 11:01 G 41338049.86 41338049.96 41338050.07 0.0060 0.0050

Pluto 108467-11-16 11:59 G 41338137.88 41338138.00 41338138.17 0.0060 0.0041

Pluto 108468-02-12 13:39 G 41338225.91 41338226.07 41338226.25 0.0060 0.0031

Pluto 108468-05-10 14:51 G 41338313.95 41338314.12 41338314.32 0.0060 0.0022

Pluto 108468-08-06 16:18 G 41338402.00 41338402.18 41338402.38 0.0060 0.0012

Pluto 108468-11-02 17:59 G 41338490.05 41338490.25 41338490.44 0.0060 0.0002

Pluto 108469-01-29 19:11 G 41338578.11 41338578.30 41338578.50 0.0060 0.0008

Jupiter 108469-03-03 18:42 G 41338611.18 41338611.28 41338611.38 0.0519 0.0314

Pluto 108469-04-27 20:37 G 41338666.17 41338666.36 41338666.55 0.0060 0.0017

Jupiter 108469-05-31 23:59 G 41338700.40 41338700.50 41338700.60 0.0516 0.0316

Pluto 108469-07-24 21:35 G 41338754.24 41338754.40 41338754.59 0.0060 0.0027

Pluto 108469-10-20 22:47 G 41338842.32 41338842.45 41338842.63 0.0060 0.0037

Pluto 108470-01-17 00:42 G 41338930.41 41338930.53 41338930.65 0.0060 0.0047

Pluto 108470-04-15 01:39 G 41339018.52 41339018.57 41339018.65 0.0060 0.0057

Moon 108472-11-25 12:13 G 41339973.85 41339974.01 41339974.17 0.2674 0.0586

Earth 108472-11-25 13:25 G 41339973.91 41339974.06 41339974.21 0.2679 0.0862 *

Uranus 108474-05-02 05:30 G 41340496.64 41340496.73 41340496.84 0.0138 0.0116

Saturn 108474-06-21 14:51 G 41340547.07 41340547.12 41340547.18 0.0298 0.0266

Mars 108474-06-25 15:20 G 41340551.04 41340551.14 41340551.23 0.1731 0.1017

Uranus 108474-07-29 12:42 G 41340584.90 41340585.03 41340585.19 0.0138 0.0090

Saturn 108474-09-18 03:35 G 41340635.52 41340635.65 41340635.78 0.0298 0.0085

Uranus 108474-10-25 20:23 G 41340673.18 41340673.35 41340673.52 0.0138 0.0063

Saturn 108474-12-15 16:03 G 41340724.04 41340724.17 41340724.29 0.0298 0.0093

Uranus 108475-01-22 03:49 G 41340761.48 41340761.66 41340761.84 0.0138 0.0036

Saturn 108475-03-14 04:18 G 41340812.63 41340812.68 41340812.73 0.0297 0.0270

Uranus 108475-04-20 11:15 G 41340849.78 41340849.97 41340850.16 0.0138 0.0009

Jupiter 108475-07-17 01:25 G 41340937.38 41340937.56 41340937.73 0.0509 0.0113

Uranus 108475-07-17 18:42 G 41340938.09 41340938.28 41340938.47 0.0137 0.0018

Mars 108475-07-26 15:06 G 41340946.96 41340947.13 41340947.29 0.1821 0.0363

Uranus 108475-10-14 01:54 G 41341026.41 41341026.58 41341026.77 0.0137 0.0046

Uranus 108476-01-10 09:20 G 41341114.74 41341114.89 41341115.07 0.0137 0.0072

Uranus 108476-04-07 16:47 G 41341203.08 41341203.20 41341203.35 0.0137 0.0100

Uranus 108476-07-05 00:27 G 41341291.46 41341291.52 41341291.60 0.0137 0.0126

Jupiter 108480-12-20 22:47 G 41342921.40 41342921.45 41342921.50 0.0520 0.0474

Jupiter 108481-03-20 04:32 G 41343010.57 41343010.69 41343010.81 0.0517 0.0162

Venus 108482-06-01 02:23 G 41343448.56 41343448.60 41343448.65 0.3677 0.3267

Moon 108483-05-22 00:56 G 41343803.44 41343803.54 41343803.63 0.2662 0.1201

Earth 108483-05-22 00:56 G 41343803.45 41343803.54 41343803.64 0.2655 0.1216 *

Mars 108483-11-16 01:39 G 41343981.56 41343981.57 41343981.59 0.1738 0.1722

Mars 108485-10-21 07:11 G 41344686.72 41344686.80 41344686.89 0.1708 0.1108

Neptune 108487-02-07 02:08 G 41345160.53 41345160.59 41345160.65 0.0089 0.0084

Jupiter 108487-05-04 23:01 G 41345247.32 41345247.46 41345247.60 0.0508 0.0319

Neptune 108487-05-06 05:44 G 41345248.63 41345248.74 41345248.85 0.0089 0.0074

Neptune 108487-08-02 09:20 G 41345336.76 41345336.89 41345337.02 0.0089 0.0064

Neptune 108487-10-29 12:42 G 41345424.89 41345425.03 41345425.19 0.0089 0.0054

Venus 108487-12-15 18:27 G 41345472.17 41345472.27 41345472.36 0.3674 0.1514

Neptune 108488-01-25 16:18 G 41345513.02 41345513.18 41345513.36 0.0089 0.0044

Neptune 108488-04-22 19:54 G 41345601.16 41345601.33 41345601.52 0.0089 0.0034

Neptune 108488-07-19 23:44 G 41345689.31 41345689.49 41345689.68 0.0089 0.0023

Neptune 108488-10-16 03:20 G 41345777.45 41345777.64 41345777.84 0.0089 0.0013

Neptune 108489-01-12 07:11 G 41345865.60 41345865.80 41345865.99 0.0089 0.0003

Neptune 108489-04-10 10:47 G 41345953.76 41345953.95 41345954.14 0.0089 0.0008

Venus 108489-07-03 10:03 G 41346037.79 41346037.92 41346038.05 0.3702 0.1784

Saturn 108489-07-06 01:39 G 41346040.45 41346040.57 41346040.70 0.0263 0.0195

Neptune 108489-07-07 14:23 G 41346041.91 41346042.10 41346042.29 0.0089 0.0018

Saturn 108489-10-02 22:18 G 41346129.24 41346129.43 41346129.62 0.0263 0.0016

Neptune 108489-10-03 17:59 G 41346130.07 41346130.25 41346130.44 0.0089 0.0028

Saturn 108489-12-30 18:56 G 41346218.15 41346218.29 41346218.44 0.0263 0.0165

Neptune 108489-12-30 21:35 G 41346218.23 41346218.40 41346218.58 0.0089 0.0039 *

Neptune 108490-03-29 01:25 G 41346306.40 41346306.56 41346306.72 0.0089 0.0049

Neptune 108490-06-25 04:47 G 41346394.57 41346394.70 41346394.86 0.0089 0.0060

Neptune 108490-09-21 08:37 G 41346482.75 41346482.86 41346482.99 0.0090 0.0070

Neptune 108490-12-18 12:27 G 41346570.94 41346571.02 41346571.11 0.0090 0.0080

Jupiter 108493-01-06 08:37 G 41347320.73 41347320.86 41347320.99 0.0518 0.0010

Venus 108493-06-30 10:03 G 41347495.82 41347495.92 41347496.03 0.3671 0.0241

Mars 108495-03-13 17:59 G 41348117.14 41348117.25 41348117.36 0.1715 0.0440

Earth 108496-05-23 18:13 G 41348554.15 41348554.26 41348554.37 0.2653 0.0376

Moon 108496-05-23 18:42 G 41348554.17 41348554.28 41348554.39 0.2657 0.0420 *

Venus 108499-01-14 01:54 G 41349519.49 41349519.58 41349519.66 0.3668 0.1908

Jupiter 108499-05-22 06:42 G 41349647.65 41349647.78 41349647.92 0.0510 0.0346

Saturn 108504-02-06 05:15 G 41351367.61 41351367.72 41351367.84 0.0297 0.0140

Saturn 108504-05-04 17:59 G 41351456.12 41351456.25 41351456.38 0.0297 0.0040

Venus 108504-07-30 17:15 G 41351543.20 41351543.22 41351543.25 0.3665 0.3560

Saturn 108504-08-01 06:13 G 41351544.68 41351544.76 41351544.85 0.0297 0.0217

Mars 108504-08-04 04:32 G 41351547.58 41351547.69 41351547.81 0.1723 0.0241

Jupiter 108504-10-26 12:56 G 41351630.92 41351631.04 41351631.17 0.0519 0.0154

Jupiter 108505-01-23 18:13 G 41351720.21 41351720.26 41351720.31 0.0516 0.0470

Mars 108505-09-04 21:20 G 41351944.29 41351944.39 41351944.50 0.1832 0.1450

Moon 108505-11-24 10:18 G 41352024.88 41352024.93 41352024.98 0.2673 0.2516

Earth 108505-11-24 11:30 G 41352024.90 41352024.98 41352025.07 0.2678 0.2239 *

Earth 108509-05-27 11:15 G 41353304.90 41353304.97 41353305.05 0.2652 0.1952

Moon 108509-05-27 11:59 G 41353304.94 41353305.00 41353305.06 0.2651 0.2128 *

Jupiter 108511-03-11 02:08 G 41353957.41 41353957.59 41353957.77 0.0509 0.0104

Mars 108513-12-25 15:06 G 41354978.04 41354978.13 41354978.23 0.1731 0.0934

Mars 108515-01-25 15:49 G 41355374.00 41355374.16 41355374.33 0.1822 0.0198

Earth 108516-05-20 12:27 G 41355854.98 41355855.02 41355855.06 0.2656 0.2483

Moon 108516-05-20 12:27 G 41355854.99 41355855.02 41355855.04 0.2662 0.2556 *

Jupiter 108516-08-14 17:44 G 41355941.14 41355941.24 41355941.34 0.0520 0.0302

Jupiter 108516-11-11 23:15 G 41356030.37 41356030.47 41356030.57 0.0516 0.0328

Uranus 108517-05-05 06:27 G 41356204.71 41356204.77 41356204.84 0.0140 0.0120

Uranus 108517-08-01 10:03 G 41356292.83 41356292.92 41356293.02 0.0140 0.0100

Uranus 108517-10-28 13:25 G 41356380.96 41356381.06 41356381.18 0.0140 0.0081

Uranus 108518-01-24 17:01 G 41356469.10 41356469.21 41356469.34 0.0140 0.0060

Uranus 108518-04-22 20:37 G 41356557.24 41356557.36 41356557.49 0.0140 0.0040

Uranus 108518-07-20 00:13 G 41356645.38 41356645.51 41356645.64 0.0140 0.0020

Uranus 108518-10-16 03:49 G 41356733.52 41356733.66 41356733.79 0.0141 0.0005

Saturn 108518-11-24 01:11 G 41356772.49 41356772.55 41356772.63 0.0263 0.0243

Moon 108518-11-27 18:27 G 41356776.13 41356776.27 41356776.40 0.2679 0.1429

Earth 108518-11-27 20:23 G 41356776.22 41356776.35 41356776.47 0.2680 0.1598 *

Uranus 108519-01-12 07:11 G 41356821.67 41356821.80 41356821.93 0.0141 0.0020

Saturn 108519-02-20 21:49 G 41356861.23 41356861.41 41356861.59 0.0263 0.0065

Uranus 108519-04-10 10:32 G 41356909.82 41356909.94 41356910.07 0.0141 0.0041

Saturn 108519-05-20 18:27 G 41356950.10 41356950.27 41356950.44 0.0263 0.0115

Uranus 108519-07-07 13:54 G 41356997.97 41356998.08 41356998.21 0.0141 0.0061

Uranus 108519-10-03 17:30 G 41357086.13 41357086.23 41357086.34 0.0141 0.0080

Uranus 108519-12-30 20:51 G 41357174.29 41357174.37 41357174.47 0.0141 0.0100

Uranus 108520-03-28 00:13 G 41357262.45 41357262.51 41357262.59 0.0141 0.0120

Uranus 108520-06-24 03:35 G 41357350.65 41357350.65 41357350.68 0.0141 0.0140

Jupiter 108522-12-27 23:30 G 41358267.31 41358267.48 41358267.66 0.0509 0.0109

Mars 108523-05-18 01:39 G 41358408.54 41358408.57 41358408.60 0.1739 0.1641

Mars 108524-06-16 10:47 G 41358803.93 41358803.95 41358803.98 0.1812 0.1780

Mars 108525-04-22 07:11 G 41359113.72 41359113.80 41359113.88 0.1708 0.1185

Jupiter 108528-06-02 22:03 G 41360251.36 41360251.42 41360251.48 0.0520 0.0459

Jupiter 108528-08-31 03:49 G 41360340.54 41360340.66 41360340.78 0.0517 0.0177

Earth 108529-05-23 05:44 G 41360605.64 41360605.74 41360605.84 0.2655 0.0881

Moon 108529-05-23 06:13 G 41360605.66 41360605.76 41360605.86 0.2660 0.0782 *

Saturn 108533-06-25 05:30 G 41362099.65 41362099.73 41362099.82 0.0298 0.0216

Saturn 108533-09-21 18:13 G 41362188.13 41362188.26 41362188.39 0.0298 0.0037

Saturn 108533-12-19 06:42 G 41362276.66 41362276.78 41362276.89 0.0297 0.0142

Mars 108534-09-12 17:59 G 41362544.14 41362544.25 41362544.36 0.1715 0.0526

Jupiter 108534-10-15 21:20 G 41362577.25 41362577.39 41362577.54 0.0508 0.0314

Venus 108539-01-06 23:59 G 41364121.43 41364121.50 41364121.57 0.3677 0.2673

Jupiter 108540-06-19 08:08 G 41364650.71 41364650.84 41364650.97 0.0518 0.0026

Earth 108542-05-25 23:01 G 41365356.35 41365356.46 41365356.56 0.2653 0.0709

Moon 108542-05-25 23:44 G 41365356.38 41365356.49 41365356.59 0.2651 0.0810 *

Mars 108544-02-03 04:32 G 41365974.58 41365974.69 41365974.81 0.1723 0.0160

Venus 108544-07-22 15:49 G 41366145.06 41366145.16 41366145.26 0.3673 0.0927

Mars 108545-03-05 22:03 G 41366371.34 41366371.42 41366371.50 0.1832 0.1611

Venus 108546-02-08 12:13 G 41366710.85 41366711.01 41366711.16 0.3703 0.0124

Jupiter 108546-11-02 05:30 G 41366977.61 41366977.73 41366977.87 0.0511 0.0361

Saturn 108548-07-09 19:11 G 41367593.14 41367593.30 41367593.46 0.0263 0.0133

Saturn 108548-10-06 15:49 G 41367681.97 41367682.16 41367682.34 0.0263 0.0047

Saturn 108549-01-03 12:27 G 41367770.93 41367771.02 41367771.12 0.0263 0.0229

Venus 108550-02-05 07:39 G 41368168.72 41368168.82 41368168.92 0.3670 0.0785

Moon 108551-11-25 16:47 G 41368827.08 41368827.20 41368827.31 0.2679 0.1794

Earth 108551-11-25 18:27 G 41368827.14 41368827.27 41368827.41 0.2678 0.1490 *

Jupiter 108552-04-07 12:13 G 41368960.89 41368961.01 41368961.13 0.0518 0.0141

Jupiter 108552-07-05 17:30 G 41369050.18 41369050.23 41369050.27 0.0515 0.0481

Mars 108553-06-25 15:06 G 41369405.03 41369405.13 41369405.23 0.1730 0.0849

Mars 108554-07-26 16:47 G 41369801.03 41369801.20 41369801.37 0.1822 0.0038

Earth 108555-05-28 16:03 G 41370107.12 41370107.17 41370107.23 0.2652 0.2278

Moon 108555-05-28 16:18 G 41370107.13 41370107.18 41370107.23 0.2646 0.2305 *

Venus 108555-08-21 23:15 G 41370192.40 41370192.47 41370192.55 0.3667 0.2461

Uranus 108558-02-24 05:59 G 41371109.72 41371109.75 41371109.79 0.0138 0.0134

Uranus 108558-05-23 13:11 G 41371197.94 41371198.05 41371198.18 0.0138 0.0108

Uranus 108558-08-19 20:37 G 41371286.21 41371286.36 41371286.52 0.0138 0.0081

Jupiter 108558-08-21 02:37 G 41371287.43 41371287.61 41371287.78 0.0510 0.0139

Uranus 108558-11-16 03:49 G 41371374.50 41371374.66 41371374.85 0.0138 0.0055

Uranus 108559-02-12 11:30 G 41371462.79 41371462.98 41371463.17 0.0138 0.0028

Uranus 108559-05-11 18:56 G 41371551.10 41371551.29 41371551.48 0.0138 0.0001

Uranus 108559-08-08 02:23 G 41371639.41 41371639.60 41371639.79 0.0137 0.0026

Uranus 108559-11-04 09:35 G 41371727.73 41371727.90 41371728.09 0.0137 0.0054

Uranus 108560-01-31 17:01 G 41371816.07 41371816.21 41371816.38 0.0137 0.0081

Uranus 108560-04-29 00:27 G 41371904.42 41371904.52 41371904.65 0.0137 0.0108

Uranus 108560-07-26 08:08 G 41371992.81 41371992.84 41371992.88 0.0137 0.0134

Earth 108562-05-21 17:15 G 41372657.16 41372657.22 41372657.28 0.2656 0.2151

Moon 108562-05-21 17:44 G 41372657.17 41372657.24 41372657.31 0.2661 0.2019 *

Saturn 108562-11-12 07:25 G 41372831.76 41372831.81 41372831.86 0.0298 0.0272

Mars 108562-11-16 01:39 G 41372835.52 41372835.57 41372835.62 0.1738 0.1553

Saturn 108563-02-08 19:54 G 41372920.21 41372920.33 41372920.46 0.0297 0.0091

Pluto 108563-02-15 06:56 G 41372926.73 41372926.79 41372926.84 0.0084 0.0076

Saturn 108563-05-08 08:23 G 41373008.73 41373008.85 41373008.98 0.0297 0.0087

Pluto 108563-05-14 07:54 G 41373014.74 41373014.83 41373014.93 0.0084 0.0058

Saturn 108563-08-04 20:37 G 41373097.31 41373097.36 41373097.42 0.0297 0.0264

Pluto 108563-08-10 09:06 G 41373102.77 41373102.88 41373103.01 0.0084 0.0039

Pluto 108563-11-06 10:32 G 41373190.81 41373190.94 41373191.07 0.0084 0.0020

Mars 108563-12-16 11:59 G 41373230.92 41373231.00 41373231.07 0.1812 0.1603

Jupiter 108564-01-25 16:32 G 41373271.09 41373271.19 41373271.30 0.0519 0.0296

Pluto 108564-02-02 11:44 G 41373278.86 41373278.99 41373279.12 0.0084 0.0002

Jupiter 108564-04-23 22:03 G 41373360.32 41373360.42 41373360.52 0.0516 0.0334

Pluto 108564-04-30 12:56 G 41373366.91 41373367.04 41373367.17 0.0084 0.0016

Pluto 108564-07-27 14:08 G 41373454.97 41373455.09 41373455.21 0.0084 0.0034

Mars 108564-10-21 07:11 G 41373540.72 41373540.80 41373540.87 0.1707 0.1272

Pluto 108564-10-23 15:06 G 41373543.03 41373543.13 41373543.24 0.0084 0.0052

Moon 108564-11-28 02:08 G 41373578.50 41373578.59 41373578.69 0.2685 0.2158

Earth 108564-11-28 03:06 G 41373578.56 41373578.63 41373578.71 0.2680 0.2349 *

Pluto 108565-01-19 16:03 G 41373631.12 41373631.17 41373631.26 0.0084 0.0071

Neptune 108567-09-06 14:23 G 41374591.07 41374591.10 41374591.16 0.0088 0.0082

Neptune 108567-12-03 15:49 G 41374679.10 41374679.16 41374679.24 0.0088 0.0075

Neptune 108568-02-29 17:15 G 41374767.14 41374767.22 41374767.31 0.0088 0.0068

Neptune 108568-05-27 18:42 G 41374855.19 41374855.28 41374855.38 0.0088 0.0061

Neptune 108568-08-23 19:54 G 41374943.23 41374943.33 41374943.44 0.0088 0.0055

Neptune 108568-11-19 21:06 G 41375031.28 41375031.38 41375031.50 0.0088 0.0048

Neptune 108569-02-15 22:32 G 41375119.33 41375119.44 41375119.56 0.0088 0.0041

Neptune 108569-05-14 23:59 G 41375207.38 41375207.50 41375207.62 0.0088 0.0034

Neptune 108569-08-11 01:11 G 41375295.43 41375295.55 41375295.68 0.0088 0.0028

Neptune 108569-11-07 02:37 G 41375383.48 41375383.61 41375383.74 0.0088 0.0021

Neptune 108570-02-03 03:49 G 41375471.53 41375471.66 41375471.80 0.0088 0.0014

Neptune 108570-05-02 05:15 G 41375559.58 41375559.72 41375559.85 0.0088 0.0008

Jupiter 108570-06-08 22:18 G 41375597.25 41375597.43 41375597.61 0.0508 0.0099

Neptune 108570-07-29 06:27 G 41375647.64 41375647.77 41375647.91 0.0088 0.0002

Neptune 108570-10-25 07:54 G 41375735.69 41375735.83 41375735.96 0.0088 0.0006

Neptune 108571-01-21 09:06 G 41375823.75 41375823.88 41375824.01 0.0088 0.0013

Neptune 108571-04-19 10:18 G 41375911.80 41375911.93 41375912.06 0.0088 0.0019

Neptune 108571-07-16 11:44 G 41375999.86 41375999.99 41376000.12 0.0088 0.0026

Neptune 108571-10-12 12:56 G 41376087.92 41376088.04 41376088.17 0.0088 0.0033

Neptune 108572-01-08 14:23 G 41376175.98 41376176.10 41376176.21 0.0088 0.0039

Neptune 108572-04-05 15:20 G 41376264.04 41376264.14 41376264.26 0.0088 0.0046

Neptune 108572-07-02 16:32 G 41376352.10 41376352.19 41376352.31 0.0088 0.0053

Neptune 108572-09-28 17:59 G 41376440.16 41376440.25 41376440.35 0.0088 0.0059

Neptune 108572-12-25 19:11 G 41376528.22 41376528.30 41376528.40 0.0088 0.0066

Neptune 108573-03-23 20:37 G 41376616.29 41376616.36 41376616.44 0.0088 0.0072

Neptune 108573-06-19 21:49 G 41376704.36 41376704.41 41376704.47 0.0088 0.0079

Neptune 108573-09-15 22:47 G 41376792.44 41376792.45 41376792.50 0.0088 0.0086

Mars 108574-03-13 17:59 G 41376971.14 41376971.25 41376971.35 0.1715 0.0610

Earth 108575-05-24 10:32 G 41377407.83 41377407.94 41377408.04 0.2654 0.0551

Moon 108575-05-24 11:15 G 41377407.86 41377407.97 41377408.07 0.2654 0.0507 *

Jupiter 108575-11-13 21:06 G 41377581.32 41377581.38 41377581.44 0.0521 0.0449

Jupiter 108576-02-11 02:51 G 41377670.50 41377670.62 41377670.74 0.0517 0.0188

Saturn 108577-11-26 18:56 G 41378325.16 41378325.29 41378325.43 0.0263 0.0179

Saturn 108578-02-23 15:35 G 41378413.96 41378414.15 41378414.34 0.0263 0.0001

Saturn 108578-05-23 11:59 G 41378502.88 41378503.00 41378503.15 0.0263 0.0182

Jupiter 108582-03-27 19:39 G 41379907.18 41379907.32 41379907.46 0.0508 0.0309

Mars 108583-08-04 04:32 G 41380401.57 41380401.69 41380401.80 0.1723 0.0079

Mars 108584-09-03 23:01 G 41380798.43 41380798.46 41380798.49 0.1832 0.1792

Jupiter 108587-11-30 07:25 G 41381980.68 41381980.81 41381980.94 0.0518 0.0037

Earth 108588-05-26 03:35 G 41382158.55 41382158.65 41382158.75 0.2653 0.1039

Moon 108588-05-26 04:03 G 41382158.57 41382158.67 41382158.77 0.2648 0.1157 *

Saturn 108592-06-27 20:23 G 41383652.24 41383652.35 41383652.46 0.0297 0.0164

Saturn 108592-09-24 08:51 G 41383740.74 41383740.87 41383741.00 0.0297 0.0017

Saturn 108592-12-21 21:20 G 41383829.29 41383829.39 41383829.49 0.0297 0.0192

Mars 108592-12-24 15:06 G 41383832.03 41383832.13 41383832.24 0.1730 0.0760

Mars 108594-01-24 17:44 G 41384228.07 41384228.24 41384228.41 0.1822 0.0160

Jupiter 108594-04-14 03:49 G 41384307.54 41384307.66 41384307.79 0.0510 0.0364

Venus 108595-08-13 21:35 G 41384794.31 41384794.40 41384794.48 0.3676 0.2082

Moon 108597-11-25 23:59 G 41385629.35 41385629.50 41385629.65 0.2683 0.0895

Earth 108597-11-26 01:25 G 41385629.40 41385629.56 41385629.71 0.2678 0.0764 *

Jupiter 108599-09-18 11:44 G 41386290.86 41386290.99 41386291.12 0.0518 0.0119

Jupiter 108599-12-16 16:47 G 41386380.18 41386380.20 41386380.23 0.0515 0.0501

Uranus 108601-02-27 10:03 G 41386817.90 41386817.92 41386817.95 0.0140 0.0136

Venus 108601-02-27 13:25 G 41386817.95 41386818.06 41386818.16 0.3672 0.0369 *

Uranus 108601-05-26 13:25 G 41386906.00 41386906.06 41386906.15 0.0140 0.0116

Moon 108601-05-29 20:37 G 41386909.33 41386909.36 41386909.39 0.2645 0.2502

Earth 108601-05-29 20:51 G 41386909.36 41386909.37 41386909.39 0.2651 0.2608 *

Uranus 108601-08-22 17:01 G 41386994.12 41386994.21 41386994.32 0.0140 0.0096

Uranus 108601-11-18 20:37 G 41387082.26 41387082.36 41387082.48 0.0140 0.0076

Uranus 108602-02-15 00:13 G 41387170.39 41387170.51 41387170.64 0.0140 0.0056

Uranus 108602-05-14 03:49 G 41387258.53 41387258.66 41387258.79 0.0140 0.0036

Mars 108602-05-18 01:39 G 41387262.51 41387262.57 41387262.63 0.1738 0.1467

Uranus 108602-08-10 07:11 G 41387346.67 41387346.80 41387346.94 0.0140 0.0017

Venus 108602-09-16 14:08 G 41387383.95 41387384.09 41387384.23 0.3704 0.1575

Uranus 108602-11-06 10:47 G 41387434.82 41387434.95 41387435.09 0.0140 0.0005

Uranus 108603-02-02 14:23 G 41387522.97 41387523.10 41387523.23 0.0141 0.0025

Uranus 108603-05-01 17:44 G 41387611.12 41387611.24 41387611.37 0.0141 0.0044

Mars 108603-06-17 12:27 G 41387657.92 41387658.02 41387658.12 0.1812 0.1462

Uranus 108603-07-28 21:06 G 41387699.27 41387699.38 41387699.50 0.0141 0.0065

Uranus 108603-10-25 00:42 G 41387787.42 41387787.53 41387787.63 0.0141 0.0084

Uranus 108604-01-21 04:03 G 41387875.59 41387875.67 41387875.76 0.0141 0.0104

Uranus 108604-04-18 07:25 G 41387963.76 41387963.81 41387963.88 0.0141 0.0124

Mars 108604-04-22 07:11 G 41387967.73 41387967.80 41387967.87 0.1707 0.1360

Jupiter 108606-02-01 01:25 G 41388617.38 41388617.56 41388617.73 0.0510 0.0151

Venus 108606-09-13 05:01 G 41388841.62 41388841.71 41388841.81 0.3669 0.1345

Saturn 108607-04-16 16:03 G 41389057.12 41389057.17 41389057.25 0.0263 0.0248

Saturn 108607-07-14 12:56 G 41389145.86 41389146.04 41389146.22 0.0263 0.0068

Saturn 108607-10-11 09:35 G 41389234.73 41389234.90 41389235.07 0.0263 0.0112

Earth 108608-05-22 22:03 G 41389459.34 41389459.42 41389459.50 0.2656 0.1819

Moon 108608-05-22 22:32 G 41389459.36 41389459.44 41389459.53 0.2658 0.1745 *

Jupiter 108611-07-08 15:35 G 41390601.05 41390601.15 41390601.26 0.0519 0.0285

Jupiter 108611-10-05 21:06 G 41390690.29 41390690.38 41390690.47 0.0516 0.0344

Venus 108612-03-28 20:37 G 41390865.31 41390865.36 41390865.42 0.3666 0.3010

Mars 108613-09-12 17:59 G 41391398.14 41391398.25 41391398.35 0.1715 0.0699

Jupiter 108617-11-19 22:18 G 41392927.25 41392927.43 41392927.62 0.0509 0.0068

Earth 108621-05-25 15:20 G 41394210.03 41394210.14 41394210.24 0.2654 0.0246

Moon 108621-05-25 15:49 G 41394210.05 41394210.16 41394210.26 0.2649 0.0140 *

Saturn 108621-11-15 22:03 G 41394384.34 41394384.42 41394384.51 0.0297 0.0219

Saturn 108622-02-12 10:47 G 41394472.82 41394472.95 41394473.08 0.0297 0.0041

Saturn 108622-05-11 23:01 G 41394561.35 41394561.46 41394561.58 0.0297 0.0138

Mars 108623-02-03 04:32 G 41394828.57 41394828.69 41394828.80 0.1722 0.0046

Jupiter 108623-04-26 19:54 G 41394911.27 41394911.33 41394911.40 0.0520 0.0442

Jupiter 108623-07-25 01:39 G 41395000.45 41395000.57 41395000.69 0.0517 0.0194

Jupiter 108629-09-07 18:13 G 41397237.12 41397237.26 41397237.41 0.0508 0.0300

Mars 108632-06-25 15:06 G 41398259.02 41398259.13 41398259.23 0.1730 0.0678

Mars 108633-07-26 18:27 G 41398655.10 41398655.27 41398655.44 0.1822 0.0319

Moon 108634-05-28 08:23 G 41398960.76 41398960.85 41398960.94 0.2646 0.1301

Earth 108634-05-28 08:23 G 41398960.76 41398960.85 41398960.94 0.2653 0.1366 *

Jupiter 108635-05-13 06:13 G 41399310.64 41399310.76 41399310.89 0.0518 0.0047

Saturn 108636-11-30 12:56 G 41399877.88 41399878.04 41399878.21 0.0264 0.0113

Saturn 108637-02-27 09:35 G 41399966.72 41399966.90 41399967.09 0.0264 0.0068

Saturn 108637-05-27 06:13 G 41400055.71 41400055.76 41400055.83 0.0264 0.0250

Jupiter 108641-09-25 01:54 G 41401637.46 41401637.58 41401637.71 0.0510 0.0366

Mars 108641-11-16 01:39 G 41401689.50 41401689.57 41401689.63 0.1738 0.1386

Uranus 108642-03-17 13:25 G 41401810.99 41401811.06 41401811.13 0.0138 0.0127

Uranus 108642-06-13 20:23 G 41401899.23 41401899.35 41401899.49 0.0138 0.0101

Uranus 108642-09-10 04:03 G 41401987.51 41401987.67 41401987.83 0.0138 0.0074

Uranus 108642-12-07 11:15 G 41402075.80 41402075.97 41402076.15 0.0138 0.0048

Mars 108642-12-16 13:39 G 41402084.95 41402085.07 41402085.19 0.1813 0.1271

Uranus 108643-03-05 18:42 G 41402164.09 41402164.28 41402164.47 0.0138 0.0021

Uranus 108643-06-02 02:08 G 41402252.40 41402252.59 41402252.78 0.0138 0.0006

Uranus 108643-08-29 09:35 G 41402340.72 41402340.90 41402341.09 0.0137 0.0033

Mars 108643-10-22 06:56 G 41402394.73 41402394.79 41402394.85 0.1707 0.1442

Uranus 108643-11-25 16:47 G 41402429.04 41402429.20 41402429.38 0.0137 0.0061

Moon 108643-11-28 08:08 G 41402431.68 41402431.84 41402431.99 0.2685 0.0165

Earth 108643-11-28 08:08 G 41402431.68 41402431.84 41402432.00 0.2678 0.0036 *

Uranus 108644-02-22 00:13 G 41402517.38 41402517.51 41402517.67 0.0137 0.0088

Uranus 108644-05-20 07:39 G 41402605.73 41402605.82 41402605.94 0.0137 0.0115

Venus 108646-09-05 03:06 G 41403443.59 41403443.63 41403443.68 0.3678 0.3262

Jupiter 108647-03-01 10:47 G 41403620.82 41403620.95 41403621.08 0.0519 0.0110

Jupiter 108647-05-29 15:49 G 41403710.16 41403710.16 41403710.18 0.0516 0.0512

Saturn 108651-04-04 23:01 G 41405116.43 41405116.46 41405116.49 0.0297 0.0286

Saturn 108651-07-02 11:30 G 41405204.86 41405204.98 41405205.10 0.0297 0.0107

Saturn 108651-09-28 23:59 G 41405293.37 41405293.50 41405293.63 0.0297 0.0071

Neptune 108651-11-06 00:27 G 41405331.44 41405331.52 41405331.61 0.0089 0.0080

Saturn 108651-12-26 12:13 G 41405381.95 41405382.01 41405382.09 0.0297 0.0248

Neptune 108652-02-02 03:49 G 41405419.55 41405419.66 41405419.79 0.0089 0.0070

Venus 108652-03-20 19:11 G 41405467.20 41405467.30 41405467.39 0.3675 0.1510

Neptune 108652-04-30 07:25 G 41405507.68 41405507.81 41405507.96 0.0089 0.0060

Neptune 108652-07-27 11:01 G 41405595.81 41405595.96 41405596.13 0.0089 0.0050

Neptune 108652-10-23 14:37 G 41405683.95 41405684.11 41405684.29 0.0089 0.0040

Neptune 108653-01-19 18:13 G 41405772.09 41405772.26 41405772.45 0.0089 0.0030

Mars 108653-03-13 17:44 G 41405825.14 41405825.24 41405825.34 0.1715 0.0781

Neptune 108653-04-17 22:03 G 41405860.23 41405860.42 41405860.61 0.0089 0.0019

Jupiter 108653-07-13 23:30 G 41405947.30 41405947.48 41405947.65 0.0510 0.0152

Neptune 108653-07-15 01:39 G 41405948.38 41405948.57 41405948.77 0.0089 0.0009

Venus 108653-10-07 07:25 G 41406032.68 41406032.81 41406032.93 0.3701 0.2162

Neptune 108653-10-11 05:30 G 41406036.53 41406036.73 41406036.92 0.0089 0.0002

Neptune 108654-01-07 09:06 G 41406124.69 41406124.88 41406125.07 0.0089 0.0012

Neptune 108654-04-05 12:42 G 41406212.84 41406213.03 41406213.22 0.0089 0.0022

Earth 108654-05-24 02:51 G 41406261.53 41406261.62 41406261.71 0.2655 0.1486

Moon 108654-05-24 03:20 G 41406261.55 41406261.64 41406261.73 0.2652 0.1402 *

Neptune 108654-07-02 16:03 G 41406301.00 41406301.17 41406301.36 0.0089 0.0033

Neptune 108654-09-28 19:54 G 41406389.17 41406389.33 41406389.51 0.0089 0.0043

Neptune 108654-12-25 23:30 G 41406477.33 41406477.48 41406477.65 0.0089 0.0053

Neptune 108655-03-24 02:51 G 41406565.51 41406565.62 41406565.78 0.0090 0.0064

Neptune 108655-06-20 06:42 G 41406653.69 41406653.78 41406653.91 0.0090 0.0074

Neptune 108655-09-16 10:32 G 41406741.88 41406741.94 41406742.02 0.0090 0.0084

Venus 108657-10-04 10:47 G 41407490.85 41407490.95 41407491.06 0.3672 0.0238

Jupiter 108658-12-18 15:06 G 41407931.02 41407931.13 41407931.24 0.0519 0.0267

Jupiter 108659-03-17 20:37 G 41408020.27 41408020.36 41408020.45 0.0516 0.0361

Venus 108659-04-23 16:18 G 41408057.11 41408057.18 41408057.25 0.3706 0.3310

Mars 108662-08-04 04:32 G 41409255.57 41409255.69 41409255.80 0.1722 0.0108

Venus 108663-04-20 02:37 G 41409514.52 41409514.61 41409514.70 0.3668 0.1908

Jupiter 108665-05-01 21:06 G 41410257.19 41410257.38 41410257.56 0.0509 0.0059

Saturn 108666-04-19 10:18 G 41410609.80 41410609.93 41410610.08 0.0263 0.0180

Saturn 108666-07-17 07:11 G 41410698.61 41410698.80 41410698.98 0.0263 0.0006

Saturn 108666-10-14 03:49 G 41410787.52 41410787.66 41410787.80 0.0264 0.0182

Earth 108667-05-26 19:54 G 41411012.22 41411012.33 41411012.44 0.2654 0.0130

Moon 108667-05-26 20:08 G 41411012.23 41411012.34 41411012.45 0.2647 0.0136 *

Venus 108668-11-02 18:13 G 41411538.24 41411538.26 41411538.28 0.3665 0.3558

Jupiter 108670-10-06 18:56 G 41412241.22 41412241.29 41412241.36 0.0520 0.0434

Jupiter 108671-01-04 00:42 G 41412330.41 41412330.53 41412330.65 0.0517 0.0202

Mars 108671-12-25 15:06 G 41412686.02 41412686.13 41412686.23 0.1730 0.0594

Mars 108673-01-24 19:25 G 41413082.15 41413082.31 41413082.48 0.1823 0.0496

Jupiter 108677-02-17 18:13 G 41414567.11 41414567.26 41414567.41 0.0508 0.0272

Moon 108680-05-28 12:42 G 41415762.94 41415763.03 41415763.11 0.2648 0.1610

Earth 108680-05-28 13:11 G 41415762.97 41415763.05 41415763.13 0.2652 0.1692 *

Saturn 108680-11-18 13:25 G 41415936.95 41415937.06 41415937.17 0.0297 0.0161

Saturn 108681-02-15 01:54 G 41416025.45 41416025.58 41416025.71 0.0297 0.0018

Saturn 108681-05-14 14:23 G 41416114.00 41416114.10 41416114.19 0.0297 0.0195

Mars 108681-05-17 01:25 G 41416116.49 41416116.56 41416116.64 0.1738 0.1300

Mars 108682-06-16 14:37 G 41416511.97 41416512.11 41416512.24 0.1813 0.1100

Jupiter 108682-10-23 05:01 G 41416640.58 41416640.71 41416640.84 0.0518 0.0050

Mars 108683-04-22 06:56 G 41416821.74 41416821.79 41416821.84 0.1707 0.1525

Uranus 108685-03-19 17:01 G 41417519.18 41417519.21 41417519.26 0.0140 0.0132

Uranus 108685-06-15 20:37 G 41417607.29 41417607.36 41417607.45 0.0140 0.0112

Uranus 108685-09-12 00:13 G 41417695.41 41417695.51 41417695.61 0.0140 0.0092

Uranus 108685-12-09 03:35 G 41417783.55 41417783.65 41417783.78 0.0140 0.0073

Uranus 108686-03-07 07:11 G 41417871.68 41417871.80 41417871.93 0.0140 0.0052

Uranus 108686-06-03 10:47 G 41417959.82 41417959.95 41417960.08 0.0140 0.0032

Uranus 108686-08-30 14:23 G 41418047.97 41418048.10 41418048.23 0.0140 0.0012

Uranus 108686-11-26 17:44 G 41418136.11 41418136.24 41418136.38 0.0140 0.0009

Uranus 108687-02-22 21:20 G 41418224.26 41418224.39 41418224.52 0.0141 0.0028

Uranus 108687-05-22 00:42 G 41418312.41 41418312.53 41418312.66 0.0141 0.0048

Uranus 108687-08-18 04:18 G 41418400.56 41418400.68 41418400.79 0.0141 0.0068

Uranus 108687-11-14 07:39 G 41418488.72 41418488.82 41418488.93 0.0141 0.0088

Uranus 108688-02-10 11:01 G 41418576.88 41418576.96 41418577.05 0.0141 0.0108

Uranus 108688-05-08 14:23 G 41418665.06 41418665.10 41418665.16 0.0141 0.0128

Jupiter 108688-12-06 14:23 G 41418877.07 41418877.10 41418877.13 0.0507 0.0499

Jupiter 108689-03-07 00:27 G 41418967.40 41418967.52 41418967.65 0.0510 0.0372

Earth 108689-11-28 14:51 G 41419233.97 41419234.12 41419234.28 0.2679 0.0704

Moon 108689-11-28 16:03 G 41419234.02 41419234.17 41419234.32 0.2685 0.0926 *

Mars 108692-09-11 17:44 G 41420252.14 41420252.24 41420252.34 0.1714 0.0868

Jupiter 108694-08-11 09:35 G 41420950.77 41420950.90 41420951.02 0.0519 0.0107

Saturn 108695-09-06 11:01 G 41421341.86 41421341.96 41421342.06 0.0264 0.0221

Saturn 108695-12-04 07:25 G 41421430.63 41421430.81 41421431.00 0.0264 0.0042

Saturn 108696-03-02 04:03 G 41421519.52 41421519.67 41421519.84 0.0264 0.0140

Moon 108700-05-25 07:39 G 41423063.72 41423063.82 41423063.92 0.2649 0.1042

Earth 108700-05-25 07:25 G 41423063.72 41423063.81 41423063.91 0.2655 0.1150 *

Jupiter 108700-12-24 21:20 G 41423277.22 41423277.39 41423277.57 0.0509 0.0153

Mars 108702-02-03 04:18 G 41423682.57 41423682.68 41423682.80 0.1722 0.0187

Venus 108703-04-13 00:42 G 41424116.46 41424116.53 41424116.60 0.3677 0.2667

Jupiter 108706-05-31 13:54 G 41425260.97 41425261.08 41425261.19 0.0520 0.0262

Jupiter 108706-08-28 19:25 G 41425350.22 41425350.31 41425350.40 0.0517 0.0367

Venus 108708-10-26 16:32 G 41426140.09 41426140.19 41426140.29 0.3674 0.0926

Saturn 108710-04-08 14:51 G 41426669.03 41426669.12 41426669.21 0.0297 0.0219

Venus 108710-05-15 09:20 G 41426705.74 41426705.89 41426706.04 0.3702 0.0500

Saturn 108710-07-06 03:20 G 41426757.51 41426757.64 41426757.77 0.0297 0.0042

Saturn 108710-10-02 15:49 G 41426846.04 41426846.16 41426846.28 0.0297 0.0136

Mars 108711-06-26 15:06 G 41427113.02 41427113.13 41427113.24 0.1730 0.0505

Mars 108712-07-26 20:23 G 41427509.19 41427509.35 41427509.51 0.1823 0.0673

Jupiter 108712-10-12 18:42 G 41427587.10 41427587.28 41427587.47 0.0509 0.0062

Moon 108713-05-28 00:27 G 41427814.41 41427814.52 41427814.62 0.2648 0.0346

Earth 108713-05-28 00:42 G 41427814.42 41427814.53 41427814.64 0.2654 0.0448 *

Venus 108714-05-12 08:23 G 41428163.75 41428163.85 41428163.95 0.3671 0.0787

Pluto 108714-10-01 17:44 G 41428306.24 41428306.24 41428306.27 0.0060 0.0059

Pluto 108714-12-28 19:11 G 41428394.21 41428394.30 41428394.42 0.0060 0.0050

Pluto 108715-03-26 20:08 G 41428482.22 41428482.34 41428482.51 0.0060 0.0041

Pluto 108715-06-22 21:49 G 41428570.26 41428570.41 41428570.59 0.0060 0.0031

Pluto 108715-09-18 23:30 G 41428658.30 41428658.48 41428658.66 0.0060 0.0021

Pluto 108715-12-16 00:42 G 41428746.35 41428746.53 41428746.73 0.0060 0.0012

Pluto 108716-03-13 02:08 G 41428834.40 41428834.59 41428834.79 0.0060 0.0002

Pluto 108716-06-09 03:35 G 41428922.46 41428922.65 41428922.85 0.0060 0.0008

Pluto 108716-09-05 05:01 G 41429010.52 41429010.71 41429010.90 0.0060 0.0017

Pluto 108716-12-02 06:13 G 41429098.59 41429098.76 41429098.94 0.0060 0.0027

Pluto 108717-02-28 07:11 G 41429186.67 41429186.80 41429186.98 0.0060 0.0038

Pluto 108717-05-27 08:23 G 41429274.76 41429274.85 41429275.00 0.0060 0.0048

Pluto 108717-08-23 10:18 G 41429362.87 41429362.93 41429363.00 0.0060 0.0057

Jupiter 108718-03-19 17:59 G 41429571.18 41429571.25 41429571.33 0.0520 0.0421

Jupiter 108718-06-16 23:44 G 41429660.38 41429660.49 41429660.61 0.0517 0.0215

Venus 108719-11-25 23:59 G 41430187.43 41430187.50 41430187.58 0.3667 0.2468

Mars 108720-11-16 01:25 G 41430543.48 41430543.56 41430543.65 0.1737 0.1212

Mars 108721-12-16 15:06 G 41430938.99 41430939.13 41430939.28 0.1813 0.0949

Mars 108722-10-22 06:56 G 41431248.76 41431248.79 41431248.83 0.1707 0.1618

Earth 108722-11-27 13:11 G 41431284.98 41431285.05 41431285.13 0.2677 0.2368

Moon 108722-11-27 14:23 G 41431285.02 41431285.10 41431285.18 0.2682 0.2307 *

Jupiter 108724-07-31 16:18 G 41431897.03 41431897.18 41431897.34 0.0508 0.0269

Saturn 108725-04-23 05:15 G 41432162.55 41432162.72 41432162.89 0.0264 0.0106

Saturn 108725-07-21 01:54 G 41432251.40 41432251.58 41432251.76 0.0264 0.0075

Saturn 108725-10-17 22:47 G 41432340.41 41432340.45 41432340.49 0.0264 0.0257

Uranus 108726-04-07 20:08 G 41432512.26 41432512.34 41432512.44 0.0138 0.0121

Moon 108726-05-30 17:15 G 41432565.15 41432565.22 41432565.29 0.2652 0.1941

Earth 108726-05-30 17:59 G 41432565.18 41432565.25 41432565.32 0.2652 0.2021 *

Uranus 108726-07-05 03:49 G 41432600.52 41432600.66 41432600.79 0.0138 0.0094

Uranus 108726-10-01 10:47 G 41432688.80 41432688.95 41432689.13 0.0138 0.0068

Uranus 108726-12-28 18:27 G 41432777.09 41432777.27 41432777.45 0.0138 0.0041

Uranus 108727-03-27 01:39 G 41432865.39 41432865.57 41432865.77 0.0138 0.0015

Uranus 108727-06-23 09:20 G 41432953.70 41432953.89 41432954.08 0.0138 0.0013

Uranus 108727-09-19 16:32 G 41433042.01 41433042.19 41433042.38 0.0137 0.0040

Uranus 108727-12-16 23:59 G 41433130.34 41433130.50 41433130.67 0.0137 0.0067

Uranus 108728-03-14 07:25 G 41433218.68 41433218.81 41433218.96 0.0137 0.0094

Uranus 108728-06-10 14:51 G 41433307.04 41433307.12 41433307.22 0.0137 0.0121

Jupiter 108730-04-05 03:49 G 41433970.53 41433970.66 41433970.79 0.0518 0.0053

Neptune 108732-03-08 12:42 G 41434674.02 41434674.03 41434674.07 0.0088 0.0086

Mars 108732-03-13 17:44 G 41434679.14 41434679.24 41434679.33 0.1714 0.0950

Neptune 108732-06-04 14:08 G 41434762.04 41434762.09 41434762.16 0.0088 0.0079

Neptune 108732-08-31 15:35 G 41434850.08 41434850.15 41434850.23 0.0088 0.0072

Neptune 108732-11-27 17:01 G 41434938.12 41434938.21 41434938.30 0.0088 0.0065

Neptune 108733-02-23 17:59 G 41435026.17 41435026.25 41435026.37 0.0088 0.0059

Neptune 108733-05-22 19:25 G 41435114.21 41435114.31 41435114.43 0.0088 0.0052

Earth 108733-05-23 18:56 G 41435115.25 41435115.29 41435115.33 0.2656 0.2419

Moon 108733-05-23 19:11 G 41435115.25 41435115.30 41435115.35 0.2650 0.2346 *

Neptune 108733-08-18 20:51 G 41435202.26 41435202.37 41435202.49 0.0088 0.0045

Neptune 108733-11-14 22:18 G 41435290.31 41435290.43 41435290.55 0.0088 0.0038

Neptune 108734-02-10 23:30 G 41435378.36 41435378.48 41435378.61 0.0088 0.0032

Neptune 108734-05-10 00:56 G 41435466.41 41435466.54 41435466.67 0.0088 0.0025

Neptune 108734-08-06 02:08 G 41435554.46 41435554.59 41435554.73 0.0088 0.0018

Neptune 108734-11-02 03:35 G 41435642.52 41435642.65 41435642.78 0.0088 0.0011

Neptune 108735-01-29 04:47 G 41435730.57 41435730.70 41435730.84 0.0088 0.0006

Neptune 108735-04-27 06:13 G 41435818.63   41435818.76   41435818.89 0.0088 0.0002

Neptune 108735-07-24 07:25 G 41435906.68   41435906.81   41435906.95 0.0088 0.0009

Neptune 108735-10-20 08:37 G 41435994.74   41435994.86   41435995.00 0.0088 0.0016

Earth   108735-11-30 21:49 G 41436036.28   41436036.41   41436036.55 0.2679 0.1450

Moon   108735-11-30 23:44 G 41436036.37   41436036.49   41436036.61 0.2680 0.1793 *

Neptune 108736-01-16 10:03 G 41436082.79   41436082.92   41436083.05 0.0088 0.0022

Neptune 108736-04-13 11:15 G 41436170.85   41436170.97   41436171.10 0.0088 0.0029

Jupiter 108736-05-19 13:39 G 41436207.02   41436207.07   41436207.13 0.0507 0.0479

Neptune 108736-07-10 12:27 G 41436258.91   41436259.02   41436259.15 0.0088 0.0036

Jupiter 108736-08-17 23:59 G 41436297.39   41436297.50   41436297.62 0.0510 0.0395

Neptune 108736-10-06 13:54 G 41436346.97   41436347.08   41436347.20 0.0088 0.0042

Neptune 108737-01-02 15:06 G 41436435.03   41436435.13   41436435.25 0.0088 0.0049

Neptune 108737-03-31 16:32 G 41436523.09   41436523.19   41436523.29 0.0088 0.0055

Neptune 108737-06-27 17:44 G 41436611.15   41436611.24   41436611.34 0.0088 0.0062

Neptune 108737-09-23 18:42 G 41436699.22   41436699.28   41436699.38 0.0088 0.0069

Neptune 108737-12-20 20:08 G 41436787.28   41436787.34   41436787.42 0.0088 0.0075

Neptune 108738-03-18 21:20 G 41436875.36   41436875.39   41436875.45 0.0088 0.0082

Saturn   108739-08-26 16:32 G 41437401.15   41437401.19   41437401.25 0.0297 0.0274

Saturn   108739-11-23 05:15 G 41437489.60   41437489.72   41437489.85 0.0297 0.0094

Saturn   108740-02-19 17:44 G 41437578.11   41437578.24   41437578.36 0.0297 0.0084

Saturn   108740-05-18 05:59 G 41437666.69   41437666.75   41437666.81 0.0297 0.0260

Mars   108741-08-04 04:18 G 41438109.57   41438109.68   41438109.80 0.1722 0.0273

Jupiter 108742-01-22 08:08 G 41438280.71   41438280.84   41438280.97 0.0519 0.0104

Moon   108746-05-26 11:59 G 41439865.89   41439866.00   41439866.10 0.2649 0.0915

Earth   108746-05-26 12:13 G 41439865.91   41439866.01   41439866.12 0.2655 0.0812 *

Jupiter 108748-06-05 19:39 G 41440607.15   41440607.32   41440607.50 0.0509 0.0157

Mars   108750-12-25 14:51 G 41441540.01   41441540.12   41441540.24 0.1730 0.0426

Mars   108752-01-25 21:20 G 41441936.24   41441936.39   41441936.54 0.1823 0.0845

Jupiter 108753-11-10 12:13 G 41442590.90   41442591.01   41442591.13 0.0520 0.0264

Jupiter 108754-02-07 17:59 G 41442680.16   41442680.25   41442680.34 0.0517 0.0367

Saturn 108754-09-10 05:59 G 41442894.60 41442894.75 41442894.91 0.0264 0.0145

Saturn 108754-12-08 02:37 G 41442983.43 41442983.61 41442983.80 0.0264 0.0037

Saturn 108755-03-06 23:15 G 41443072.38 41443072.47 41443072.59 0.0264 0.0219

Moon 108759-05-29 04:47 G 41444616.60 41444616.70 41444616.81 0.2655 0.0708

Earth 108759-05-29 05:30 G 41444616.63 41444616.73 41444616.83 0.2653 0.0778 *

Venus 108759-11-17 22:18 G 41444789.34 41444789.43 41444789.52 0.3676 0.2074

Jupiter 108760-03-24 16:47 G 41444917.02 41444917.20 41444917.38 0.0508 0.0062

Mars 108760-05-17 01:25 G 41444970.47 41444970.56 41444970.65 0.1738 0.1129

Mars 108761-06-16 16:18 G 41445366.02 41445366.18 41445366.33 0.1814 0.0766

Mars 108762-04-22 06:56 G 41445675.78 41445675.79 41445675.80 0.1707 0.1695

Venus 108765-06-02 14:08 G 41446812.99 41446813.09 41446813.19 0.3673 0.0343

Jupiter 108765-08-29 16:32 G 41446901.12 41446901.19 41446901.27 0.0521 0.0422

Jupiter 108765-11-26 22:18 G 41446990.32 41446990.43 41446990.55 0.0518 0.0216

Venus 108766-12-20 11:30 G 41447378.83 41447378.98 41447379.12 0.3703 0.1192

Earth 108768-11-27 19:54 G 41448087.21 41448087.33 41448087.46 0.2678 0.1657

Moon 108768-11-27 21:49 G 41448087.27 41448087.41 41448087.55 0.2676 0.1270 *

Uranus 108769-04-10 00:27 G 41448220.47 41448220.52 41448220.58 0.0140 0.0126

Saturn 108769-04-11 07:25 G 41448221.69 41448221.81 41448221.92 0.0297 0.0144

Uranus 108769-07-07 04:03 G 41448308.59 41448308.67 41448308.76 0.0140 0.0106

Saturn 108769-07-08 19:54 G 41448310.20 41448310.33 41448310.46 0.0297 0.0034

Uranus 108769-10-03 07:39 G 41448396.71 41448396.82 41448396.92 0.0140 0.0086

Saturn 108769-10-05 08:08 G 41448398.75 41448398.84 41448398.93 0.0296 0.0209

Uranus 108769-12-30 11:01 G 41448484.85 41448484.96 41448485.08 0.0140 0.0067

Uranus 108770-03-28 14:37 G 41448572.99 41448573.11 41448573.24 0.0140 0.0046

Uranus 108770-06-24 18:13 G 41448661.13 41448661.26 41448661.39 0.0140 0.0026

Uranus 108770-09-20 21:35 G 41448749.27 41448749.40 41448749.54 0.0140 0.0008

Venus 108770-12-17 05:59 G 41448836.65 41448836.75 41448836.84 0.3670 0.1363

Uranus 108770-12-18 01:11 G 41448837.42 41448837.55 41448837.68 0.0140 0.0014

Uranus 108771-03-16 04:32 G 41448925.56 41448925.69 41448925.82 0.0141 0.0034

Uranus 108771-06-12 08:08 G 41449013.72 41449013.84 41449013.96 0.0141 0.0053

Uranus 108771-09-08 11:30 G 41449101.87 41449101.98 41449102.10 0.0141 0.0073

Mars 108771-09-12 17:44 G 41449106.15 41449106.24 41449106.33 0.1714 0.1039

Uranus 108771-12-05 15:06 G 41449190.03 41449190.13 41449190.23 0.0141 0.0093

Jupiter 108772-01-11 13:54 G 41449226.93 41449227.08 41449227.24 0.0508 0.0276

Uranus 108772-03-02 18:27 G 41449278.19 41449278.27 41449278.35 0.0141 0.0113

Uranus 108772-05-29 21:49 G 41449366.37 41449366.41 41449366.46 0.0141 0.0133

Moon 108772-05-30 22:32 G 41449367.38 41449367.44 41449367.49 0.2658 0.2270

Earth 108772-05-30 22:47 G 41449367.40 41449367.45 41449367.49 0.2652 0.2355 *

Venus 108776-07-01 21:35 G 41450860.34 41450860.40 41450860.45 0.3667 0.3020

Jupiter 108777-09-15 02:51 G 41451300.49 41451300.62 41451300.75 0.0518 0.0062

Moon 108779-05-24 23:15 G 41451917.41 41451917.47 41451917.53 0.2651 0.2110

Earth 108779-05-24 23:44 G 41451917.43 41451917.49 41451917.56 0.2656 0.2084 *

Mars 108781-02-02 04:18 G 41452536.57 41452536.68 41452536.79 0.1722 0.0363

Earth 108781-12-01 04:47 G 41452838.61 41452838.70 41452838.79 0.2680 0.2197

Moon 108781-12-01 05:30 G 41452838.64 41452838.73 41452838.82 0.2674 0.2220 *

Jupiter 108783-10-30 11:44 G 41453536.93 41453536.99 41453537.04 0.0507 0.0481

Saturn 108784-01-28 04:03 G 41453626.56 41453626.67 41453626.79 0.0264 0.0206

Jupiter 108784-01-28 21:49 G 41453627.30 41453627.41 41453627.53 0.0510 0.0392

Saturn 108784-04-26 00:42 G 41453715.34 41453715.53 41453715.72 0.0264 0.0026

Saturn 108784-07-23 21:20 G 41453804.25 41453804.39 41453804.55 0.0264 0.0156

Jupiter 108789-07-04 06:42 G 41455610.66 41455610.78 41455610.91 0.0519 0.0104

Mars 108790-06-25 14:51 G 41455967.01 41455967.12 41455967.23 0.1729 0.0337

Mars 108791-07-26 22:03 G 41456363.28 41456363.42 41456363.56 0.1824 0.1016

Moon 108792-05-26 16:18 G 41456668.08 41456668.18 41456668.29 0.2656 0.0634

Earth 108792-05-26 17:01 G 41456668.10 41456668.21 41456668.32 0.2654 0.0480 *

Jupiter 108795-11-16 18:42 G 41457937.11 41457937.28 41457937.46 0.0509 0.0172

Saturn 108798-08-29 09:20 G 41458953.79 41458953.89 41458953.99 0.0297 0.0196

Saturn 108798-11-25 21:49 G 41459042.28 41459042.41 41459042.54 0.0297 0.0019

Saturn 108799-02-22 10:18 G 41459130.82 41459130.93 41459131.04 0.0297 0.0160

Mars 108799-11-16 01:25 G 41459397.47 41459397.56 41459397.65 0.1737 0.1040

Mars 108800-12-15 17:15 G 41459793.06 41459793.22 41459793.38 0.1814 0.0589

Jupiter 108801-04-22 10:47 G 41459920.84 41459920.95 41459921.07 0.0520 0.0264

Jupiter 108801-07-20 16:18 G 41460010.10 41460010.18 41460010.28 0.0517 0.0367

Moon 108805-05-29 10:03 G 41461418.82 41461418.92 41461419.01 0.2659 0.1086

Earth 108805-05-29 10:18 G 41461418.83 41461418.93 41461419.03 0.2653 0.1110 *

Jupiter 108807-09-04 14:51 G 41462246.94 41462247.12 41462247.30 0.0508 0.0061

Uranus 108810-04-28 03:20 G 41463213.54 41463213.64 41463213.75 0.0138 0.0114

Pluto 108810-06-24 17:30 G 41463271.18 41463271.23 41463271.31 0.0085 0.0074

Uranus 108810-07-25 10:32 G 41463301.81 41463301.94 41463302.10 0.0138 0.0088

Pluto 108810-09-20 18:42 G 41463359.19 41463359.28 41463359.39 0.0084 0.0056

Uranus 108810-10-21 17:59 G 41463390.09 41463390.25 41463390.43 0.0138 0.0061

Venus 108810-12-09 03:49 G 41463438.62 41463438.66 41463438.71 0.3679 0.3250

Pluto 108810-12-17 20:08 G 41463447.22 41463447.34 41463447.46 0.0084 0.0037

Uranus 108811-01-18 01:25 G 41463478.38 41463478.56 41463478.75 0.0138 0.0034

Mars 108811-03-13 17:30 G 41463533.15 41463533.23 41463533.32 0.1714 0.1122

Pluto 108811-03-15 21:20 G 41463535.26 41463535.39 41463535.52 0.0084 0.0018

Uranus 108811-04-16 08:51 G 41463566.68 41463566.87 41463567.06 0.0138 0.0008

Pluto 108811-06-11 22:32 G 41463623.31 41463623.44 41463623.58 0.0084 0.0002

Uranus 108811-07-13 16:18 G 41463654.99 41463655.18 41463655.37 0.0138 0.0019

Pluto 108811-09-07 23:44 G 41463711.36 41463711.49 41463711.62 0.0084 0.0018

Uranus 108811-10-09 23:30 G 41463743.31 41463743.48 41463743.67 0.0137 0.0047

Pluto 108811-12-05 00:42 G 41463799.42 41463799.53 41463799.66 0.0084 0.0037

Uranus 108812-01-06 06:56 G 41463831.64 41463831.79 41463831.96 0.0137 0.0073

Pluto 108812-03-02 01:54 G 41463887.49 41463887.58 41463887.69 0.0084 0.0055

Uranus 108812-04-03 14:23 G 41463919.98 41463920.10 41463920.24 0.0137 0.0100

Pluto 108812-05-29 03:06 G 41463975.58 41463975.63 41463975.70 0.0084 0.0073

Uranus 108812-06-30 21:49 G 41464008.35 41464008.41 41464008.50 0.0137 0.0127

Jupiter 108813-02-08 14:51 G 41464231.05 41464231.12 41464231.19 0.0521 0.0429

Jupiter 108813-05-08 20:37 G 41464320.25 41464320.36 41464320.48 0.0518 0.0211

Saturn 108813-06-16 05:01 G 41464358.65 41464358.71 41464358.80 0.0264 0.0243

Saturn 108813-09-13 01:54 G 41464447.40 41464447.58 41464447.76 0.0264 0.0062

Saturn 108813-12-10 22:32 G 41464536.28 41464536.44 41464536.61 0.0264 0.0120

Earth 108814-11-29 02:51 G 41464889.47 41464889.62 41464889.77 0.2678 0.0916

Moon 108814-11-29 03:35 G 41464889.50 41464889.65 41464889.81 0.2672 0.0771 *

Neptune 108816-05-06 18:42 G 41465414.25 41465414.28 41465414.35 0.0089 0.0086

Venus 108816-06-23 19:54 G 41465462.23 41465462.33 41465462.42 0.3676 0.1487

Neptune 108816-08-02 22:18 G 41465502.35 41465502.43 41465502.55 0.0089 0.0076

Neptune 108816-10-30 01:54 G 41465590.47 41465590.58 41465590.72 0.0089 0.0066

Neptune 108817-01-26 05:30 G 41465678.60 41465678.73 41465678.89 0.0089 0.0056

Neptune 108817-04-24 09:20 G 41465766.73 41465766.89 41465767.06 0.0089 0.0046

Neptune 108817-07-21 12:56 G 41465854.87 41465855.04 41465855.22 0.0089 0.0036

Neptune 108817-10-17 16:32 G 41465943.01 41465943.19 41465943.38 0.0089 0.0026

Venus 108818-01-10 04:47 G 41466027.59 41466027.70 41466027.82 0.3699 0.2500

Neptune 108818-01-13 20:08 G 41466031.16 41466031.34 41466031.54 0.0089 0.0016

Neptune 108818-04-11 23:59 G 41466119.30 41466119.50 41466119.69 0.0089 0.0005

Neptune 108818-07-09 03:35 G 41466207.46 41466207.65 41466207.84 0.0089 0.0005

Neptune 108818-10-05 06:56 G 41466295.61 41466295.79 41466295.99 0.0089 0.0016

Neptune 108819-01-01 10:47 G 41466383.77 41466383.95 41466384.14 0.0089 0.0026

Neptune 108819-03-30 14:23 G 41466471.93 41466472.10 41466472.28 0.0089 0.0036

Jupiter 108819-06-23 11:44 G 41466556.84 41466556.99 41466557.14 0.0507 0.0278

Neptune 108819-06-26 17:44 G 41466560.09 41466560.24 41466560.42 0.0089 0.0047

Neptune 108819-09-22 21:35 G 41466648.26 41466648.40 41466648.56 0.0089 0.0057

Neptune 108819-12-20 01:25 G 41466736.44 41466736.56 41466736.69 0.0089 0.0067

Neptune 108820-03-17 04:47 G 41466824.62 41466824.70 41466824.81 0.0090 0.0078

Neptune 108820-06-13 08:23 G 41466912.83 41466912.85 41466912.91 0.0090 0.0088

Mars 108820-08-03 04:18 G 41466963.57 41466963.68 41466963.79 0.1722 0.0444

Venus 108822-01-07 11:44 G 41467485.88 41467485.99 41467486.09 0.3672 0.0249

Venus 108823-07-27 13:39 G 41468051.97 41468052.07 41468052.16 0.3705 0.2903

Jupiter 108825-02-25 01:11 G 41468630.42 41468630.55 41468630.68 0.0519 0.0056

Moon 108825-05-25 03:49 G 41468719.59 41468719.66 41468719.73 0.2656 0.1920

Earth 108825-05-25 04:32 G 41468719.61 41468719.69 41468719.77 0.2656 0.1747 *

Venus 108827-07-24 03:20 G 41469509.56 41469509.64 41469509.73 0.3669 0.1921

Saturn 108828-01-16 11:59 G 41469685.92 41469686.00 41469686.08 0.0297 0.0239

Saturn 108828-04-14 00:27 G 41469774.39 41469774.52 41469774.65 0.0296 0.0061

Saturn 108828-07-11 12:56 G 41469862.92 41469863.04 41469863.16 0.0296 0.0116

Saturn 108828-10-08 01:11 G 41469951.53 41469951.55 41469951.57 0.0296 0.0291

Mars 108829-12-24 14:51 G 41470394.01 41470394.12 41470394.24 0.1729 0.0248

Mars 108831-01-24 23:01 G 41470790.33 41470790.46 41470790.59 0.1824 0.1197

Jupiter 108831-04-11 08:51 G 41470866.84 41470866.87 41470866.92 0.0507 0.0492

Jupiter 108831-07-10 18:56 G 41470957.17 41470957.29 41470957.42 0.0510 0.0380

Venus 108833-02-05 18:56 G 41471533.27 41471533.29 41471533.31 0.3666 0.3561

Jupiter 108836-12-14 05:30 G 41472940.60 41472940.73 41472940.86 0.0519 0.0100

Moon 108838-05-27 21:35 G 41473470.29 41473470.40 41473470.51 0.2661 0.0127

Earth 108838-05-27 21:49 G 41473470.30 41473470.41 41473470.52 0.2654 0.0169 *

Mars 108839-05-17 01:25 G 41473824.46 41473824.56 41473824.65 0.1737 0.0954

Mars 108840-06-15 17:44 G 41474220.07 41474220.24 41474220.40 0.1814 0.0442

Saturn 108843-01-31 00:27 G 41475179.35 41475179.52 41475179.69 0.0264 0.0119

Jupiter 108843-04-28 16:03 G 41475267.00 41475267.17 41475267.35 0.0509 0.0165

Saturn 108843-04-29 21:06 G 41475268.20 41475268.38 41475268.56 0.0264 0.0062

Saturn 108843-07-27 17:44 G 41475357.18 41475357.24 41475357.32 0.0264 0.0245

Jupiter 108848-10-02 09:20 G 41477250.78 41477250.89 41477251.00 0.0520 0.0266

Mars 108848-10-06 11:44 G 41477254.96 41477254.99 41477255.02 0.1745 0.1677

Jupiter 108848-12-30 14:51 G 41477340.03 41477340.12 41477340.21 0.0517 0.0363

Mars 108850-09-11 17:30 G 41477960.15 41477960.23 41477960.31 0.1714 0.1210

Earth 108851-05-30 15:06 G 41478221.04 41478221.13 41478221.22 0.2653 0.1439

Moon 108851-05-30 15:35 G 41478221.06 41478221.15 41478221.24 0.2657 0.1468 *

Uranus 108853-04-30 07:39 G 41478921.76 41478921.82 41478921.89 0.0140 0.0122

Uranus 108853-07-27 11:15 G 41479009.88 41479009.97 41479010.06 0.0140 0.0102

Uranus 108853-10-23 14:51 G 41479098.01 41479098.12 41479098.23 0.0140 0.0082

Uranus 108854-01-19 18:27 G 41479186.15 41479186.27 41479186.39 0.0140 0.0062

Uranus 108854-04-17 21:49 G 41479274.29 41479274.41 41479274.54 0.0140 0.0042

Uranus 108854-07-15 01:25 G 41479362.43 41479362.56 41479362.69 0.0140 0.0022

Uranus 108854-10-11 04:47 G 41479450.57 41479450.70 41479450.84 0.0140 0.0005

Uranus 108855-01-07 08:23 G 41479538.72 41479538.85 41479538.98 0.0141 0.0018

Jupiter 108855-02-14 13:11 G 41479576.87 41479577.05 41479577.24 0.0508 0.0055

Uranus 108855-04-05 11:44 G 41479626.87 41479626.99 41479627.12 0.0141 0.0039

Uranus 108855-07-02 15:06 G 41479715.02 41479715.13 41479715.26 0.0141 0.0059

Uranus 108855-09-28 18:42 G 41479803.18 41479803.28 41479803.40 0.0141 0.0078

Uranus 108855-12-25 22:18 G 41479891.34 41479891.43 41479891.52 0.0141 0.0098

Uranus 108856-03-23 01:39 G 41479979.50 41479979.57 41479979.64 0.0141 0.0118

Uranus 108856-06-19 05:01 G 41480067.69 41480067.71 41480067.74 0.0141 0.0138

Saturn 108857-06-04 13:54 G 41480418.06 41480418.08 41480418.12 0.0297 0.0290

Saturn 108857-09-01 02:37 G 41480506.49 41480506.61 41480506.73 0.0297 0.0110

Saturn 108857-11-28 15:06 G 41480595.00 41480595.13 41480595.26 0.0297 0.0068

Saturn 108858-02-25 03:20 G 41480683.57 41480683.64 41480683.72 0.0296 0.0244

Mars 108860-02-02 04:18 G 41481390.57 41481390.68 41481390.79 0.1721 0.0532

Jupiter 108860-07-21 13:11 G 41481560.98 41481561.05 41481561.13 0.0521 0.0430

Jupiter 108860-10-18 19:11 G 41481650.18 41481650.30 41481650.41 0.0518 0.0208

Moon 108860-11-29 08:23 G 41481691.69 41481691.85 41481692.01 0.2674 0.0487

Earth 108860-11-29 09:49 G 41481691.75 41481691.91 41481692.07 0.2678 0.0189 *

Jupiter 108866-12-03 09:35 G 41483886.76 41483886.90 41483887.06 0.0507 0.0280

Venus 108867-07-16 01:25 G 41484111.49 41484111.56 41484111.63 0.3678 0.2655

Mars 108869-06-24 14:51 G 41484821.00 41484821.12 41484821.23 0.1729 0.0165

Mars 108870-07-25 23:44 G 41485217.38 41485217.49 41485217.61 0.1824 0.1364

Moon 108871-05-26 09:06 G 41485521.79 41485521.88 41485521.97 0.2662 0.1455

Earth 108871-05-26 09:20 G 41485521.79 41485521.89 41485521.98 0.2655 0.1418 *

Saturn 108872-06-19 01:39 G 41485911.42 41485911.57 41485911.72 0.0264 0.0154

Jupiter 108872-08-06 23:15 G 41485960.34 41485960.47 41485960.60 0.0519 0.0047

Saturn 108872-09-15 22:18 G 41486000.25 41486000.43 41486000.62 0.0265 0.0028

Saturn 108872-12-13 19:11 G 41486089.19 41486089.30 41486089.41 0.0265 0.0211

Venus 108873-01-28 17:15 G 41486135.12 41486135.22 41486135.32 0.3675 0.0926

Venus 108874-08-17 06:42 G 41486700.63 41486700.78 41486700.93 0.3701 0.0891

Venus 108878-08-14 09:06 G 41488158.78 41488158.88 41488158.98 0.3672 0.0804

Jupiter 108878-09-21 06:42 G 41488196.75 41488196.78 41488196.82 0.0506 0.0494

Mars 108878-11-15 01:25 G 41488251.46 41488251.56 41488251.65 0.1737 0.0871

Jupiter 108878-12-20 16:32 G 41488287.07 41488287.19 41488287.32 0.0509 0.0373

Mars 108879-12-15 18:56 G 41488647.12 41488647.29 41488647.46 0.1814 0.0248

Venus 108884-02-28 00:42 G 41490182.46 41490182.53 41490182.61 0.3668 0.2467

Jupiter 108884-05-26 03:35 G 41490270.52 41490270.65 41490270.77 0.0519 0.0111

Earth 108884-05-28 02:23 G 41490272.50 41490272.60 41490272.71 0.2654 0.0213

Moon 108884-05-28 02:51 G 41490272.52 41490272.62 41490272.73 0.2659 0.0270 *

Jupiter 108884-08-23 08:51 G 41490359.86 41490359.87 41490359.88 0.0516 0.0512

Saturn 108887-01-19 05:44 G 41491238.63 41491238.74 41491238.86 0.0296 0.0146

Saturn 108887-04-17 18:13 G 41491327.13 41491327.26 41491327.39 0.0296 0.0034

Saturn 108887-07-15 06:27 G 41491415.69 41491415.77 41491415.87 0.0296 0.0208

Mars 108888-04-06 11:44 G 41491681.95 41491681.99 41491682.04 0.1745 0.1588

Mars 108890-03-12 17:30 G 41492387.16 41492387.23 41492387.30 0.1714 0.1294

Jupiter 108890-10-08 13:11 G 41492596.88 41492597.05 41492597.23 0.0509 0.0147

Uranus 108894-02-19 03:35 G 41493826.61 41493826.65 41493826.71 0.0138 0.0132

Uranus 108894-05-18 10:47 G 41493914.84 41493914.95 41493915.08 0.0138 0.0106

Uranus 108894-08-14 17:59 G 41494003.11 41494003.25 41494003.42 0.0138 0.0080

Uranus 108894-11-11 01:39 G 41494091.40 41494091.57 41494091.75 0.0138 0.0053

Uranus 108895-02-07 08:51 G 41494179.69 41494179.87 41494180.06 0.0138 0.0027

Uranus 108895-05-06 16:18 G 41494267.99 41494268.18 41494268.37 0.0138 0.0003

Uranus 108895-08-02 23:44 G 41494356.31 41494356.49 41494356.68 0.0138 0.0027

Uranus 108895-10-30 06:56 G 41494444.63 41494444.79 41494444.98 0.0137 0.0055

Uranus 108896-01-26 14:37 G 41494532.96 41494533.11 41494533.27 0.0137 0.0081

Jupiter 108896-03-14 07:54 G 41494580.72 41494580.83 41494580.94 0.0520 0.0267

Uranus 108896-04-23 22:03 G 41494621.31 41494621.42 41494621.54 0.0137 0.0108

Jupiter 108896-06-11 13:25 G 41494669.97 41494670.06 41494670.15 0.0517 0.0363

Uranus 108896-07-21 05:30 G 41494709.70 41494709.73 41494709.77 0.0137 0.0135

Neptune 108896-12-03 12:27 G 41494844.99 41494845.02 41494845.07 0.0088 0.0083

Neptune 108897-03-01 13:54 G 41494933.02 41494933.08 41494933.15 0.0088 0.0076

Neptune 108897-05-28 15:20 G 41495021.06 41495021.14 41495021.22 0.0088 0.0069

Earth 108897-05-30 19:39 G 41495023.24 41495023.32 41495023.40 0.2652 0.1764

Moon 108897-05-30 20:23 G 41495023.28 41495023.35 41495023.43 0.2650 0.1892 *

Neptune 108897-08-24 16:18 G 41495109.10 41495109.18 41495109.29 0.0088 0.0063

Neptune 108897-11-20 17:44 G 41495197.15 41495197.24 41495197.35 0.0088 0.0056

Neptune 108898-02-16 19:11 G 41495285.20 41495285.30 41495285.42 0.0088 0.0049

Neptune 108898-05-15 20:37 G 41495373.25 41495373.36 41495373.48 0.0088 0.0042

Neptune 108898-08-11 21:49 G 41495461.29 41495461.41 41495461.54 0.0088 0.0036

Neptune 108898-11-07 23:15 G 41495549.35 41495549.47 41495549.60 0.0088 0.0029

Neptune 108899-02-04 00:27 G 41495637.40 41495637.52 41495637.66 0.0088 0.0022

Neptune 108899-05-03 01:54 G 41495725.45 41495725.58 41495725.71 0.0088 0.0015

Neptune 108899-07-30 03:20 G 41495813.50 41495813.64 41495813.77 0.0088 0.0009

Mars 108899-08-03 04:18 G 41495817.57 41495817.68 41495817.78 0.1721 0.0621

Neptune 108899-10-26 04:32 G 41495901.56 41495901.69 41495901.82 0.0088 0.0002

Neptune 108900-01-22 05:44 G 41495989.61 41495989.74 41495989.88 0.0088 0.0006

Neptune 108900-04-20 07:11 G 41496077.67 41496077.80 41496077.93 0.0088 0.0012

Neptune 108900-07-17 08:23 G 41496165.72 41496165.85 41496165.98 0.0088 0.0018

Neptune 108900-10-13 09:35 G 41496253.78 41496253.90 41496254.04 0.0088 0.0025

Neptune 108901-01-09 10:47 G 41496341.84 41496341.95 41496342.09 0.0088 0.0032

Neptune 108901-04-07 12:13 G 41496429.90 41496430.01 41496430.14 0.0088 0.0038

Neptune 108901-07-04 13:25 G 41496517.96 41496518.06 41496518.18 0.0088 0.0045

Neptune 108901-09-30 14:37 G 41496606.02 41496606.11 41496606.23 0.0088 0.0052

Saturn 108901-11-07 00:42 G 41496643.42 41496643.53 41496643.65 0.0264 0.0207

Neptune 108901-12-27 16:03 G 41496694.08 41496694.17 41496694.28 0.0088 0.0058

Saturn 108902-02-03 21:20 G 41496732.20 41496732.39 41496732.58 0.0264 0.0027

Neptune 108902-03-25 17:15 G 41496782.14 41496782.22 41496782.32 0.0088 0.0065

Saturn 108902-05-03 17:59 G 41496821.10 41496821.25 41496821.41 0.0264 0.0155

Neptune 108902-06-21 18:42 G 41496870.21 41496870.28 41496870.36 0.0088 0.0071

Jupiter 108902-07-28 10:32 G 41496906.76 41496906.94 41496907.12 0.0508 0.0067

Neptune 108902-09-17 19:54 G 41496958.28 41496958.33 41496958.40 0.0088 0.0078

Neptune 108902-12-14 21:20 G 41497046.36 41497046.39 41497046.42 0.0088 0.0084

Moon 108906-12-01 14:51 G 41498493.96 41498494.12 41498494.28 0.2680 0.0335

Earth 108906-12-01 16:32 G 41498494.04 41498494.19 41498494.35 0.2679 0.0582 *

Jupiter 108908-01-02 11:30 G 41498890.92 41498890.98 41498891.06 0.0521 0.0436

Jupiter 108908-03-31 17:30 G 41498980.11 41498980.23 41498980.35 0.0517 0.0202

Mars 108908-12-24 14:51 G 41499248.00 41499248.12 41499248.23 0.1729 0.0091

Mars 108910-01-25 00:42 G 41499644.45 41499644.53 41499644.62 0.1825 0.1548

Jupiter 108914-05-16 07:39 G 41501216.67 41501216.82 41501216.97 0.0507 0.0280

Saturn 108916-06-08 07:54 G 41501970.73 41501970.83 41501970.93 0.0297 0.0196

Saturn 108916-09-04 20:23 G 41502059.22 41502059.35 41502059.48 0.0297 0.0019

Saturn 108916-12-02 08:51 G 41502147.76 41502147.87 41502147.98 0.0296 0.0159

Earth 108917-05-27 13:54 G 41502323.98 41502324.08 41502324.18 0.2655 0.1085

Moon 108917-05-27 14:23 G 41502324.00 41502324.10 41502324.20 0.2660 0.0937 *

Mars 108918-05-17 01:11 G 41502678.45 41502678.55 41502678.66 0.1737 0.0785

Mars 108919-06-16 19:39 G 41503074.15 41503074.32 41503074.49 0.1814 0.0082

Jupiter 108920-01-18 21:35 G 41503290.27 41503290.40 41503290.53 0.0518 0.0043

Venus 108924-02-20 23:01 G 41504784.37 41504784.46 41504784.54 0.3677 0.2074

Jupiter 108926-03-04 04:32 G 41505526.66 41505526.69 41505526.72 0.0506 0.0498

Jupiter 108926-06-02 14:23 G 41505616.98 41505617.10 41505617.23 0.0509 0.0368

Mars 108927-10-07 11:44 G 41506108.93 41506108.99 41506109.04 0.1745 0.1507

Mars 108928-11-05 14:37 G 41506504.05 41506504.11 41506504.18 0.1805 0.1668

Venus 108929-09-05 14:51 G 41506808.02 41506808.12 41506808.22 0.3674 0.0340

Mars 108929-09-11 17:30 G 41506814.16 41506814.23 41506814.30 0.1713 0.1380

Earth 108930-05-30 07:11 G 41507074.70 41507074.80 41507074.91 0.2654 0.0520

Moon 108930-05-30 07:54 G 41507074.72 41507074.83 41507074.94 0.2651 0.0560 *

Venus 108931-03-25 08:51 G 41507373.72 41507373.87 41507374.02 0.3702 0.0790

Saturn 108931-03-27 02:08 G 41507375.52 41507375.59 41507375.67 0.0265 0.0241

Saturn 108931-06-23 22:47 G 41507464.27 41507464.45 41507464.63 0.0265 0.0061

Saturn 108931-09-20 19:25 G 41507553.15 41507553.31 41507553.48 0.0265 0.0122

Jupiter 108931-11-07 01:25 G 41507600.44 41507600.56 41507600.69 0.0520 0.0124

Jupiter 108932-02-04 06:56 G 41507689.76 41507689.79 41507689.82 0.0517 0.0501

Venus 108935-03-22 06:42 G 41508831.68 41508831.78 41508831.87 0.3671 0.1359

Uranus 108937-02-22 11:30 G 41509534.96 41509534.98 41509535.02 0.0140 0.0136

Uranus 108937-05-21 15:06 G 41509623.06 41509623.13 41509623.21 0.0140 0.0116

Uranus 108937-08-17 18:27 G 41509711.19 41509711.27 41509711.38 0.0140 0.0097

Uranus 108937-11-13 22:03 G 41509799.32 41509799.42 41509799.54 0.0140 0.0076

Uranus 108938-02-10 01:39 G 41509887.45 41509887.57 41509887.70 0.0140 0.0056

Jupiter 108938-03-21 10:47 G 41509926.78 41509926.95 41509927.13 0.0508 0.0143

Uranus 108938-05-09 05:15 G 41509975.59 41509975.72 41509975.85 0.0140 0.0036

Uranus 108938-08-05 08:51 G 41510063.74 41510063.87 41510064.00 0.0140 0.0016

Uranus 108938-11-01 12:13 G 41510151.88 41510152.01 41510152.15 0.0141 0.0006

Uranus 108939-01-28 15:49 G 41510240.03 41510240.16 41510240.29 0.0141 0.0024

Mars 108939-02-02 04:03 G 41510244.57 41510244.67 41510244.78 0.1721 0.0700

Uranus 108939-04-26 19:11 G 41510328.18 41510328.30 41510328.43 0.0141 0.0044

Uranus 108939-07-23 22:47 G 41510416.33 41510416.45 41510416.57 0.0141 0.0064

Uranus 108939-10-20 02:08 G 41510504.49 41510504.59 41510504.70 0.0141 0.0084

Earth 108939-11-29 14:51 G 41510545.07 41510545.12 41510545.18 0.2677 0.2502

Uranus 108940-01-16 05:30 G 41510592.65 41510592.73 41510592.83 0.0141 0.0104

Uranus 108940-04-13 08:51 G 41510680.82 41510680.87 41510680.94 0.0141 0.0124

Venus 108940-10-04 22:18 G 41510855.37 41510855.43 41510855.49 0.3667 0.3015

Earth 108943-06-02 00:27 G 41511825.46 41511825.52 41511825.59 0.2652 0.2095

Moon 108943-06-02 00:42 G 41511825.47 41511825.53 41511825.59 0.2646 0.2165 *

Jupiter 108943-08-26 05:44 G 41511910.63 41511910.74 41511910.85 0.0520 0.0283

Jupiter 108943-11-23 11:15 G 41511999.88 41511999.97 41512000.07 0.0517 0.0350

Saturn 108945-10-26 11:15 G 41512702.89 41512702.97 41512703.06 0.0296 0.0227

Saturn 108946-01-22 23:59 G 41512791.37 41512791.50 41512791.63 0.0296 0.0048

Saturn 108946-04-21 12:13 G 41512879.90 41512880.01 41512880.13 0.0296 0.0129

Mars 108948-06-24 14:51 G 41513675.00 41513675.12 41513675.23 0.1729 0.0042

Mars 108949-07-26 01:39 G 41514071.52 41514071.57 41514071.62 0.1824 0.1720

Jupiter 108950-01-07 07:25 G 41514236.63 41514236.81 41514236.98 0.0508 0.0085

Earth 108950-05-26 01:25 G 41514375.51 41514375.56 41514375.61 0.2656 0.2357

Moon 108950-05-26 01:54 G 41514375.53 41514375.58 41514375.64 0.2660 0.2261 *

Moon 108952-12-01 22:47 G 41515296.31 41515296.45 41515296.59 0.2685 0.1292

Earth 108952-12-01 23:30 G 41515296.34 41515296.48 41515296.62 0.2679 0.1310 *

Jupiter 108955-06-14 10:03 G 41516220.85 41516220.92 41516220.98 0.0521 0.0440

Jupiter 108955-09-11 15:49 G 41516310.04 41516310.16 41516310.28 0.0518 0.0199

Mars 108957-11-15 01:11 G 41517105.45 41517105.55 41517105.66 0.1736 0.0696

Mars 108958-12-15 20:23 G 41517501.18 41517501.35 41517501.52 0.1815 0.0079

Saturn 108960-11-09 21:49 G 41518196.25 41518196.41 41518196.59 0.0264 0.0112

Saturn 108961-02-06 18:42 G 41518285.10 41518285.28 41518285.46 0.0264 0.0070

Saturn 108961-05-06 15:35 G 41518374.10 41518374.15 41518374.20 0.0264 0.0253

Jupiter 108961-10-26 04:32 G 41518546.55 41518546.69 41518546.84 0.0507 0.0296

Pluto 108962-02-07 03:06 G 41518650.57 41518650.63 41518650.74 0.0060 0.0054

Pluto 108962-05-06 04:32 G 41518738.58 41518738.69 41518738.84 0.0060 0.0044

Pluto 108962-08-02 06:27 G 41518826.61 41518826.77 41518826.93 0.0060 0.0034

Pluto 108962-10-29 07:25 G 41518914.65 41518914.81 41518915.00 0.0060 0.0025

Pluto 108963-01-25 09:06 G 41519002.69 41519002.88 41519003.07 0.0060 0.0015

Pluto 108963-04-23 10:18 G 41519090.74 41519090.93 41519091.13 0.0060 0.0006

Earth 108963-05-28 18:42 G 41519126.18 41519126.28 41519126.39 0.2655 0.0750

Moon 108963-05-28 19:25 G 41519126.20 41519126.31 41519126.41 0.2653 0.0671 *

Pluto 108963-07-20 11:44 G 41519178.80 41519178.99 41519179.19 0.0060 0.0005

Pluto 108963-10-16 13:11 G 41519266.86 41519267.05 41519267.24 0.0060 0.0014

Pluto 108964-01-12 14:08 G 41519354.93 41519355.09 41519355.29 0.0060 0.0024

Pluto 108964-04-09 16:03 G 41519443.01 41519443.17 41519443.33 0.0060 0.0034

Pluto 108964-07-06 17:01 G 41519531.09 41519531.21 41519531.36 0.0060 0.0044

Pluto 108964-10-02 18:13 G 41519619.19 41519619.26 41519619.37 0.0060 0.0054

Mars 108967-04-07 11:44 G 41520535.92 41520535.99 41520536.05 0.1745 0.1422

Jupiter 108967-06-30 19:54 G 41520620.20 41520620.33 41520620.46 0.0518 0.0037

Mars 108968-05-06 15:35 G 41520931.06 41520931.15 41520931.25 0.1805 0.1490

Mars 108969-03-12 17:30 G 41521241.17 41521241.23 41521241.28 0.1713 0.1465

Jupiter 108973-08-14 02:08 G 41522856.58 41522856.59 41522856.61 0.0507 0.0503

Jupiter 108973-11-12 11:59 G 41522946.88 41522947.00 41522947.13 0.0510 0.0364

Venus 108975-03-14 04:32 G 41523433.65 41523433.69 41523433.74 0.3680 0.3248

Saturn 108975-03-15 13:25 G 41523435.02 41523435.06 41523435.11 0.0297 0.0278

Saturn 108975-06-12 02:08 G 41523523.46 41523523.59 41523523.71 0.0297 0.0099

Saturn 108975-09-08 14:37 G 41523611.98 41523612.11 41523612.23 0.0297 0.0079

Saturn 108975-12-06 02:51 G 41523700.56 41523700.62 41523700.69 0.0296 0.0254

Moon 108976-05-30 12:13 G 41523876.90 41523877.01 41523877.11 0.2647 0.0909

Earth 108976-05-30 11:59 G 41523876.90 41523877.00 41523877.10 0.2653 0.0845 *

Uranus 108978-03-12 11:30 G 41524527.91 41524527.98 41524528.07 0.0138 0.0123

Uranus 108978-06-08 18:42 G 41524616.16 41524616.28 41524616.42 0.0138 0.0097

Mars 108978-08-03 04:03 G 41524671.57 41524671.67 41524671.77 0.1721 0.0788

Uranus 108978-09-05 01:54 G 41524704.43 41524704.58 41524704.75 0.0138 0.0071

Uranus 108978-12-02 09:35 G 41524792.72 41524792.90 41524793.08 0.0138 0.0044

Uranus 108979-02-28 16:47 G 41524881.01 41524881.20 41524881.39 0.0138 0.0017

Jupiter 108979-04-18 23:59 G 41524930.37 41524930.50 41524930.62 0.0519 0.0127

Uranus 108979-05-28 00:13 G 41524969.32 41524969.51 41524969.70 0.0138 0.0009

Jupiter 108979-07-17 05:15 G 41525019.69 41525019.72 41525019.75 0.0516 0.0497

Uranus 108979-08-24 07:25 G 41525057.63 41525057.81 41525058.00 0.0137 0.0036

Uranus 108979-11-20 14:51 G 41525145.96 41525146.12 41525146.29 0.0137 0.0063

Uranus 108980-02-16 22:18 G 41525234.29 41525234.43 41525234.58 0.0137 0.0090

Uranus 108980-05-15 05:44 G 41525322.65 41525322.74 41525322.85 0.0137 0.0116

Venus 108980-09-26 20:37 G 41525457.26 41525457.36 41525457.45 0.3676 0.1492

Neptune 108981-02-01 16:32 G 41525585.14 41525585.19 41525585.28 0.0089 0.0084

Neptune 108981-04-30 20:08 G 41525673.25 41525673.34 41525673.47 0.0089 0.0074

Neptune 108981-07-27 23:44 G 41525761.37 41525761.49 41525761.64 0.0089 0.0063

Neptune 108981-10-24 03:20 G 41525849.50 41525849.64 41525849.81 0.0089 0.0053

Neptune 108982-01-20 06:56 G 41525937.64 41525937.79 41525937.97 0.0089 0.0043

Venus 108982-04-15 02:08 G 41526022.50 41526022.59 41526022.69 0.3698 0.2875

Neptune 108982-04-18 10:47 G 41526025.78 41526025.95 41526026.13 0.0089 0.0033

Neptune 108982-07-15 14:23 G 41526113.92 41526114.10 41526114.29 0.0089 0.0023

Neptune 108982-10-11 17:59 G 41526202.06 41526202.25 41526202.45 0.0089 0.0013

Neptune 108983-01-07 21:35 G 41526290.21 41526290.40 41526290.60 0.0089 0.0003

Neptune 108983-04-06 01:11 G 41526378.36 41526378.55 41526378.75 0.0089 0.0008

Neptune 108983-07-03 04:47 G 41526466.52 41526466.70 41526466.90 0.0089 0.0018

Neptune 108983-09-29 08:23 G 41526554.68 41526554.85 41526555.04 0.0089 0.0029

Neptune 108983-12-26 11:59 G 41526642.84 41526643.00 41526643.19 0.0089 0.0039

Neptune 108984-03-23 15:49 G 41526731.00 41526731.16 41526731.33 0.0089 0.0049

Neptune 108984-06-19 19:11 G 41526819.17 41526819.30 41526819.46 0.0089 0.0060

Neptune 108984-09-15 22:47 G 41526907.35 41526907.45 41526907.59 0.0089 0.0070

Neptune 108984-12-13 02:37 G 41526995.54 41526995.61 41526995.71 0.0090 0.0080

Jupiter 108985-08-31 08:37 G 41527256.68 41527256.86 41527257.03 0.0508 0.0137

Moon 108985-11-29 21:20 G 41527347.27 41527347.39 41527347.51 0.2684 0.1768

Earth 108985-11-29 21:49 G 41527347.29 41527347.41 41527347.53 0.2677 0.1773 *

Venus 108986-04-12 12:27 G 41527480.91 41527481.02 41527481.12 0.3673 0.0242

Venus 108987-10-30 10:47 G 41528046.84 41528046.95 41528047.07 0.3704 0.2479

Mars 108987-12-24 14:37 G 41528102.00 41528102.11 41528102.23 0.1729 0.0111

Moon 108989-06-02 04:32 G 41528627.64 41528627.69 41528627.75 0.2648 0.2287

Earth 108989-06-02 05:15 G 41528627.68 41528627.72 41528627.76 0.2652 0.2425 *

Saturn 108990-03-29 23:15 G 41528928.32 41528928.47 41528928.63 0.0265 0.0146

Saturn 108990-06-26 19:54 G 41529017.15 41529017.33 41529017.52 0.0265 0.0036

Saturn 108990-09-23 16:47 G 41529106.10 41529106.20 41529106.31 0.0265 0.0219

Jupiter 108991-02-05 03:35 G 41529240.54 41529240.65 41529240.76 0.0521 0.0296

Jupiter 108991-05-05 09:20 G 41529329.79 41529329.89 41529329.98 0.0518 0.0337

Venus 108991-10-27 04:03 G 41529504.59 41529504.67 41529504.76 0.3670 0.1917

Earth 108996-05-26 06:13 G 41531177.69 41531177.76 41531177.83 0.2656 0.2017

Moon 108996-05-26 06:56 G 41531177.71 41531177.79 41531177.86 0.2654 0.1847 *

Venus 108997-05-11 19:39 G 41531528.30 41531528.32 41531528.35 0.3667 0.3567

Mars 108997-05-16 01:11 G 41531532.44 41531532.55 41531532.66 0.1737 0.0611

Jupiter 108997-06-19 05:15 G 41531566.54 41531566.72 41531566.90 0.0507 0.0087

Mars 108998-06-15 21:20 G 41531928.22 41531928.39 41531928.56 0.1815 0.0267

Earth 108998-12-03 06:13 G 41532098.66 41532098.76 41532098.87 0.2679 0.2050

Moon 108998-12-03 07:39 G 41532098.73 41532098.82 41532098.91 0.2683 0.2184 *

110TH MILLENNIUM CE

This is a list of transits of Mercury in the 110th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Jupiter 109002-11-25 07:39 G 41533550.76 41533550.82 41533550.88 0.0521 0.0457

Jupiter 109003-02-22 13:39 G 41533639.95 41533640.07 41533640.19 0.0518 0.0183

Saturn 109004-10-30 05:44 G 41534255.62 41534255.74 41534255.86 0.0296 0.0127

Saturn 109005-01-26 18:13 G 41534344.13 41534344.26 41534344.39 0.0296 0.0050

Saturn 109005-04-25 06:27 G 41534432.69 41534432.77 41534432.86 0.0296 0.0225

Mars 109006-10-07 11:44 G 41534962.92 41534962.99 41534963.06 0.1744 0.1326

Mars 109007-11-06 16:18 G 41535358.07 41535358.18 41535358.30 0.1805 0.1335

Mars 109008-09-11 17:15 G 41535668.18 41535668.22 41535668.27 0.1713 0.1556

Jupiter 109009-04-08 01:25 G 41535876.42 41535876.56 41535876.71 0.0507 0.0313

Moon 109009-05-29 23:30 G 41535928.37 41535928.48 41535928.59 0.2648 0.0457

Earth 109009-05-29 23:30 G 41535928.37 41535928.48 41535928.59 0.2655 0.0412 *

Jupiter 109014-12-11 18:13 G 41537950.13 41537950.26 41537950.39 0.0519 0.0032

Mars 109018-02-02 04:03 G 41539098.57 41539098.67 41539098.77 0.1721 0.0878

Saturn 109019-08-17 22:47 G 41539660.33 41539660.45 41539660.58 0.0264 0.0194

Saturn 109019-11-14 19:25 G 41539749.13 41539749.31 41539749.50 0.0264 0.0015

Saturn 109020-02-11 16:18 G 41539838.04 41539838.18 41539838.32 0.0264 0.0169

Uranus 109021-03-15 18:27 G 41540236.24 41540236.27 41540236.33 0.0140 0.0132

Jupiter 109021-04-25 08:51 G 41540276.74 41540276.87 41540277.01 0.0510 0.0346

Uranus 109021-06-11 22:03 G 41540324.35 41540324.42 41540324.51 0.0140 0.0112

Uranus 109021-09-08 01:54 G 41540412.48 41540412.58 41540412.68 0.0140 0.0092

Uranus 109021-12-05 05:30 G 41540500.61 41540500.73 41540500.84 0.0140 0.0072

Uranus 109022-03-03 08:51 G 41540588.75 41540588.87 41540589.00 0.0140 0.0052

Uranus 109022-05-30 12:27 G 41540676.89 41540677.02 41540677.15 0.0140 0.0032

Moon 109022-06-01 16:18 G 41540679.08 41540679.18 41540679.28 0.2649 0.1121

Earth 109022-06-01 16:47 G 41540679.10 41540679.20 41540679.30 0.2653 0.1177 *

Uranus 109022-08-26 16:03 G 41540765.03 41540765.17 41540765.30 0.0141 0.0012

Uranus 109022-11-22 19:25 G 41540853.18 41540853.31 41540853.45 0.0141 0.0009

Uranus 109023-02-18 23:01 G 41540941.33 41540941.46 41540941.59 0.0141 0.0029

Uranus 109023-05-18 02:23 G 41541029.48 41541029.60 41541029.73 0.0141 0.0048

Uranus 109023-08-14 05:44 G 41541117.63 41541117.74 41541117.86 0.0141 0.0069

Uranus 109023-11-10 09:20 G 41541205.79 41541205.89 41541206.00 0.0141 0.0088

Uranus 109024-02-06 12:42 G 41541293.95 41541294.03 41541294.12 0.0141 0.0108

Uranus 109024-05-04 16:03 G 41541382.13 41541382.17 41541382.23 0.0141 0.0128

Jupiter 109026-09-29 22:18 G 41542260.30 41542260.43 41542260.55 0.0519 0.0132

Jupiter 109026-12-28 03:35 G 41542349.62 41542349.65 41542349.69 0.0516 0.0491

Mars 109027-06-25 14:37 G 41542529.00 41542529.11 41542529.22 0.1728 0.0181

Venus 109031-10-20 02:08 G 41544106.52 41544106.59 41544106.66 0.3679 0.2654

Earth 109031-12-02 04:32 G 41544149.54 41544149.69 41544149.84 0.2678 0.1051

Moon 109031-12-02 05:59 G 41544149.60 41544149.75 41544149.90 0.2681 0.0774 *

Jupiter 109033-02-11 05:59 G 41544586.58 41544586.75 41544586.93 0.0509 0.0129

Saturn 109034-03-19 07:25 G 41544987.71 41544987.81 41544987.92 0.0297 0.0182

Saturn 109034-06-15 20:08 G 41545076.21 41545076.34 41545076.47 0.0297 0.0006

Saturn 109034-09-12 08:23 G 41545164.75 41545164.85 41545164.96 0.0297 0.0173

Moon 109035-06-04 09:20 G 41545429.87 41545429.89 41545429.90 0.2654 0.2622

Mars 109036-11-15 01:11 G 41545959.44 41545959.55 41545959.66 0.1736 0.0522

Venus 109037-05-04 18:13 G 41546130.15 41546130.26 41546130.36 0.3675 0.0923

Mars 109037-12-15 22:18 G 41546355.27 41546355.43 41546355.60 0.1815 0.0443

Jupiter 109038-07-19 02:08 G 41546570.48 41546570.59 41546570.70 0.0520 0.0296

Jupiter 109038-10-16 07:39 G 41546659.73 41546659.82 41546659.92 0.0517 0.0336

Venus 109038-11-21 04:18 G 41546695.53 41546695.68 41546695.82 0.3700 0.1244

Moon 109042-05-28 11:01 G 41547979.88 41547979.96 41547980.05 0.2650 0.1701

Earth 109042-05-28 11:01 G 41547979.88 41547979.96 41547980.04 0.2656 0.1680 *

Venus 109042-11-18 09:49 G 41548153.81 41548153.91 41548154.02 0.3672 0.0817

Jupiter 109044-11-30 02:51 G 41548896.44 41548896.62 41548896.80 0.0508 0.0092

Mars 109046-04-07 11:30 G 41549389.90 41549389.98 41549390.06 0.1744 0.1248

Mars 109047-05-07 17:15 G 41549785.09 41549785.22 41549785.35 0.1805 0.1160

Mars 109048-03-12 17:15 G 41550095.19 41550095.22 41550095.25 0.1713 0.1637

Venus 109048-06-03 01:39 G 41550177.49 41550177.57 41550177.64 0.3669 0.2472

Saturn 109049-01-03 23:59 G 41550392.41 41550392.50 41550392.59 0.0264 0.0231

Saturn 109049-04-02 20:37 G 41550481.17 41550481.36 41550481.54 0.0265 0.0051

Saturn 109049-06-30 17:15 G 41550570.06 41550570.22 41550570.38 0.0265 0.0132

Jupiter 109050-05-07 05:44 G 41550880.68 41550880.74 41550880.79 0.0521 0.0470

Jupiter 109050-08-04 11:44 G 41550969.87 41550969.99 41550970.11 0.0518 0.0171

Moon 109055-05-31 03:49 G 41552730.55 41552730.66 41552730.77 0.2649 0.0095

Earth 109055-05-31 04:18 G 41552730.57 41552730.68 41552730.79 0.2655 0.0075 *

Jupiter 109056-09-17 23:44 G 41553206.35 41553206.49 41553206.63 0.0507 0.0310

Mars 109057-08-03 04:03 G 41553525.57 41553525.67 41553525.76 0.1721 0.0962

Pluto 109057-08-05 04:03 G 41553527.65 41553527.67 41553527.70 0.0085 0.0083

Pluto 109057-11-01 05:15 G 41553615.64 41553615.72 41553615.81 0.0084 0.0064

Pluto 109058-01-28 06:42 G 41553703.67 41553703.78 41553703.89 0.0084 0.0046

Pluto 109058-04-26 07:39 G 41553791.70 41553791.82 41553791.95 0.0084 0.0028

Pluto 109058-07-23 08:51 G 41553879.74 41553879.87 41553880.01 0.0084 0.0010

Pluto 109058-10-19 10:03 G 41553967.79 41553967.92 41553968.06 0.0084 0.0010

Pluto 109059-01-15 11:15 G 41554055.85 41554055.97 41554056.10 0.0084 0.0027

Pluto 109059-04-13 12:13 G 41554143.91 41554144.01 41554144.13 0.0084 0.0046

Pluto 109059-07-10 13:25 G 41554231.99 41554232.06 41554232.16 0.0084 0.0064

Pluto 109059-10-06 14:37 G 41554320.09 41554320.11 41554320.15 0.0084 0.0081

Neptune 109061-06-05 10:47 G 41554927.94 41554927.95 41554927.96 0.0088 0.0087

Neptune 109061-09-01 11:44 G 41555015.95 41555015.99 41555016.06 0.0088 0.0081

Neptune 109061-11-28 13:11 G 41555103.99 41555104.05 41555104.13 0.0088 0.0074

Neptune 109062-02-24 14:37 G 41555192.03 41555192.11 41555192.20 0.0088 0.0067

Uranus 109062-04-02 19:54 G 41555229.22 41555229.33 41555229.43 0.0138 0.0113

Jupiter 109062-05-23 16:03 G 41555280.04 41555280.17 41555280.30 0.0519 0.0016

Neptune 109062-05-23 16:03 G 41555280.08 41555280.17 41555280.27 0.0088 0.0060 *

Uranus 109062-06-30 02:51 G 41555317.48 41555317.62 41555317.77 0.0138 0.0087

Neptune 109062-08-19 17:30 G 41555368.12 41555368.23 41555368.34 0.0088 0.0053

Uranus 109062-09-26 10:03 G 41555405.76 41555405.92 41555406.10 0.0138 0.0061

Neptune 109062-11-15 18:42 G 41555456.17 41555456.28 41555456.40 0.0088 0.0047

Uranus 109062-12-23 17:44 G 41555494.05 41555494.24 41555494.42 0.0138 0.0034

Neptune 109063-02-11 20:08 G 41555544.22 41555544.34 41555544.46 0.0088 0.0040

Uranus 109063-03-22 00:56 G 41555582.35 41555582.54 41555582.73 0.0138 0.0008

Neptune 109063-05-10 21:20 G 41555632.27 41555632.39 41555632.52 0.0088 0.0033

Uranus 109063-06-18 08:23 G 41555670.66 41555670.85 41555671.04 0.0138 0.0019

Saturn 109063-08-06 11:15 G 41555719.88 41555719.97 41555720.06 0.0296 0.0210

Neptune 109063-08-06 22:47 G 41555720.32 41555720.45 41555720.58 0.0088 0.0026

Uranus 109063-09-14 15:35 G 41555758.98 41555759.15 41555759.34 0.0137 0.0046

Saturn 109063-11-02 23:44 G 41555808.36 41555808.49 41555808.62 0.0296 0.0032

Neptune 109063-11-02 23:59 G 41555808.38 41555808.50 41555808.64 0.0088 0.0020 *

Uranus 109063-12-11 23:01 G 41555847.30 41555847.46 41555847.63 0.0137 0.0073

Neptune 109064-01-30 01:25 G 41555896.43 41555896.56 41555896.69 0.0088 0.0013

Saturn 109064-01-30 11:59 G 41555896.89 41555897.00 41555897.12 0.0296 0.0146

Uranus 109064-03-09 06:27 G 41555935.64 41555935.77 41555935.90 0.0137 0.0099

Neptune 109064-04-27 02:51 G 41555984.48 41555984.62 41555984.75 0.0088 0.0006

Uranus 109064-06-05 13:39 G 41556024.01 41556024.07 41556024.16 0.0137 0.0127

Neptune 109064-07-24 04:03 G 41556072.54 41556072.67 41556072.81 0.0088 0.0001

Neptune 109064-10-20 05:30 G 41556160.59 41556160.73 41556160.86 0.0088 0.0008

Neptune 109065-01-16 06:42 G 41556248.65 41556248.78 41556248.91 0.0088 0.0014

Neptune 109065-04-14 07:54 G 41556336.71 41556336.83 41556336.96 0.0088 0.0021

Neptune 109065-07-11 09:20 G 41556424.76 41556424.89 41556425.02 0.0088 0.0027

Neptune 109065-10-07 10:32 G 41556512.82 41556512.94 41556513.07 0.0088 0.0034

Neptune 109066-01-03 11:44 G 41556600.88 41556600.99 41556601.12 0.0088 0.0041

Neptune 109066-04-01 13:11 G 41556688.94 41556689.05 41556689.16 0.0088 0.0047

Neptune 109066-06-28 14:23 G 41556777.00 41556777.10 41556777.21 0.0088 0.0054

Neptune 109066-09-24 15:35 G 41556865.07 41556865.15 41556865.26 0.0088 0.0061

Neptune 109066-12-21 17:01 G 41556953.13 41556953.21 41556953.30 0.0088 0.0067

Mars 109066-12-24 14:37 G 41556956.00 41556956.11 41556956.23 0.1728 0.0277

Neptune 109067-03-19 18:13 G 41557041.20 41557041.26 41557041.34 0.0088 0.0074

Neptune 109067-06-15 19:39 G 41557129.27 41557129.32 41557129.37 0.0088 0.0080

Neptune 109067-09-11 20:37 G 41557217.36 41557217.36 41557217.39 0.0088 0.0087

Moon 109068-06-01 20:51 G 41557481.28 41557481.37 41557481.46 0.2654 0.1336

Earth 109068-06-01 21:35 G 41557481.31 41557481.40 41557481.49 0.2653 0.1514 *

Jupiter 109068-10-05 05:44 G 41557606.60 41557606.74 41557606.88 0.0509 0.0327

Jupiter 109074-03-11 20:37 G 41559590.23 41559590.36 41559590.48 0.0520 0.0137

Jupiter 109074-06-09 01:54 G 41559679.55 41559679.58 41559679.62 0.0516 0.0488

Mars 109076-05-16 01:11 G 41560386.44 41560386.55 41560386.66 0.1736 0.0438

Mars 109077-06-15 23:01 G 41560782.30 41560782.46 41560782.62 0.1815 0.0597

Earth 109077-12-02 11:30 G 41560951.82 41560951.98 41560952.13 0.2678 0.0320

Moon 109077-12-02 13:11 G 41560951.89 41560952.05 41560952.21 0.2678 0.0157 *

Saturn 109078-08-20 20:23 G 41561213.18 41561213.35 41561213.52 0.0264 0.0098

Saturn 109078-11-17 17:01 G 41561302.03 41561302.21 41561302.39 0.0264 0.0083

Jupiter 109080-07-24 02:51 G 41561916.44 41561916.62 41561916.80 0.0509 0.0112

Mars 109085-10-06 11:30 G 41563816.90 41563816.98 41563817.07 0.1744 0.1157

Jupiter 109085-12-29 00:27 G 41563900.42 41563900.52 41563900.63 0.0520 0.0300

Jupiter 109086-03-28 06:13 G 41563989.66 41563989.76 41563989.86 0.0517 0.0332

Mars 109086-11-05 18:13 G 41564212.12 41564212.26 41564212.41 0.1806 0.0981

Venus 109088-05-25 23:44 G 41564779.41 41564779.49 41564779.58 0.3678 0.2063

Moon 109088-05-28 15:20 G 41564782.05 41564782.14 41564782.24 0.2650 0.1396

Earth 109088-05-28 15:49 G 41564782.06 41564782.16 41564782.25 0.2656 0.1347 *

Jupiter 109092-05-12 00:13 G 41566226.33 41566226.51 41566226.69 0.0508 0.0100

Saturn 109092-12-23 12:42 G 41566451.98 41566452.03 41566452.09 0.0297 0.0268

Saturn 109093-03-22 01:25 G 41566540.43 41566540.56 41566540.68 0.0297 0.0089

Saturn 109093-06-18 13:54 G 41566628.95 41566629.08 41566629.20 0.0297 0.0089

Saturn 109093-09-15 02:08 G 41566717.53 41566717.59 41566717.65 0.0297 0.0264

Venus 109093-12-09 15:35 G 41566803.05 41566803.15 41566803.26 0.3675 0.0356

Venus 109095-06-28 06:13 G 41567368.61 41567368.76 41567368.91 0.3701 0.0419

Mars 109097-02-01 04:03 G 41567952.58 41567952.67 41567952.76 0.1720 0.1051

Jupiter 109097-10-17 04:18 G 41568210.63 41568210.68 41568210.74 0.0521 0.0466

Jupiter 109098-01-14 10:18 G 41568299.81 41568299.93 41568300.05 0.0518 0.0174

Venus 109099-06-25 07:25 G 41568826.72 41568826.81 41568826.91 0.3671 0.1368

Moon 109101-06-01 08:23 G 41569532.74 41569532.85 41569532.96 0.2652 0.0139

Earth 109101-06-01 09:06 G 41569532.77 41569532.88 41569532.99 0.2654 0.0260 *

Jupiter 109104-02-29 21:20 G 41570536.26 41570536.39 41570536.54 0.0507 0.0314

Venus 109105-01-08 23:01 G 41570850.41 41570850.46 41570850.52 0.3668 0.3029

Uranus 109105-04-06 01:54 G 41570937.53 41570937.58 41570937.64 0.0140 0.0127

Uranus 109105-07-03 05:44 G 41571025.65 41571025.74 41571025.82 0.0140 0.0107

Uranus 109105-09-29 09:06 G 41571113.78 41571113.88 41571113.99 0.0140 0.0087

Uranus 109105-12-26 12:42 G 41571201.91 41571202.03 41571202.15 0.0140 0.0066

Uranus 109106-03-24 16:18 G 41571290.05 41571290.18 41571290.30 0.0140 0.0046

Uranus 109106-06-20 19:39 G 41571378.19 41571378.32 41571378.46 0.0140 0.0027

Mars 109106-06-25 14:37 G 41571382.99 41571383.11 41571383.22 0.1728 0.0359

Uranus 109106-09-16 23:15 G 41571466.34 41571466.47 41571466.61 0.0141 0.0007

Uranus 109106-12-14 02:51 G 41571554.49 41571554.62 41571554.75 0.0141 0.0014

Uranus 109107-03-12 06:13 G 41571642.63 41571642.76 41571642.89 0.0141 0.0034

Uranus 109107-06-08 09:49 G 41571730.79 41571730.91 41571731.03 0.0141 0.0054

Uranus 109107-09-04 13:11 G 41571818.94 41571819.05 41571819.17 0.0141 0.0074

Uranus 109107-12-01 16:32 G 41571907.10 41571907.19 41571907.30 0.0141 0.0094

Saturn 109108-01-08 20:51 G 41571945.21 41571945.37 41571945.53 0.0264 0.0139

Uranus 109108-02-27 20:08 G 41571995.27 41571995.34 41571995.42 0.0141 0.0113

Saturn 109108-04-06 17:30 G 41572034.05 41572034.23 41572034.42 0.0264 0.0043

Uranus 109108-05-25 23:30 G 41572083.45 41572083.48 41572083.53 0.0141 0.0133

Saturn 109108-07-04 14:08 G 41572123.00 41572123.09 41572123.19 0.0265 0.0226

Jupiter 109109-11-03 14:08 G 41572609.96 41572610.09 41572610.22 0.0519 0.0007

Moon 109114-06-04 01:39 G 41574283.49 41574283.57 41574283.65 0.2657 0.1801

Earth 109114-06-04 02:23 G 41574283.52 41574283.60 41574283.67 0.2653 0.1846 *

Mars 109115-11-16 01:11 G 41574813.43 41574813.55 41574813.66 0.1736 0.0354

Jupiter 109116-03-18 04:03 G 41574936.54 41574936.67 41574936.81 0.0509 0.0334

Mars 109116-12-15 23:59 G 41575209.35 41575209.50 41575209.66 0.1816 0.0793

Earth 109121-05-28 03:06 G 41576833.62 41576833.63 41576833.64 0.2657 0.2627

Jupiter 109121-08-22 18:27 G 41576920.14 41576920.27 41576920.39 0.0520 0.0150

Jupiter 109121-11-19 23:59 G 41577009.45 41577009.50 41577009.55 0.0517 0.0476

Saturn 109122-08-10 04:47 G 41577272.58 41577272.70 41577272.82 0.0296 0.0120

Saturn 109122-11-06 17:15 G 41577361.09 41577361.22 41577361.35 0.0296 0.0057

Saturn 109123-02-03 05:30 G 41577449.66 41577449.73 41577449.81 0.0296 0.0233

Earth 109123-12-04 18:13 G 41577754.10 41577754.26 41577754.42 0.2678 0.0416

Moon 109123-12-04 19:54 G 41577754.17 41577754.33 41577754.48 0.2675 0.0794 *

Mars 109125-04-07 11:30 G 41578243.89 41578243.98 41578244.07 0.1744 0.1067

Mars 109126-05-07 18:56 G 41578639.14 41578639.29 41578639.44 0.1806 0.0828

Jupiter 109128-01-04 23:59 G 41579246.32 41579246.50 41579246.68 0.0508 0.0097

Jupiter 109133-06-10 23:01 G 41581230.35 41581230.46 41581230.56 0.0521 0.0302

Jupiter 109133-09-08 04:47 G 41581319.60 41581319.70 41581319.79 0.0517 0.0331

Moon 109134-05-30 19:54 G 41581584.23 41581584.33 41581584.43 0.2651 0.1074

Earth 109134-05-30 20:37 G 41581584.26 41581584.36 41581584.46 0.2655 0.1016 *

Mars 109136-08-03 03:49 G 41582379.58 41582379.66 41582379.75 0.1720 0.1141

Saturn 109137-05-27 20:51 G 41582677.24 41582677.37 41582677.50 0.0264 0.0184

Saturn 109137-08-24 17:15 G 41582766.04 41582766.22 41582766.41 0.0264 0.0007

Saturn 109137-11-21 13:54 G 41582854.95 41582855.08 41582855.22 0.0264 0.0177

Venus 109139-06-18 05:15 G 41583428.68 41583428.72 41583428.77 0.3680 0.3237

Jupiter 109139-10-23 21:20 G 41583556.21 41583556.39 41583556.57 0.0508 0.0114

Venus 109144-12-31 21:20 G 41585452.29 41585452.39 41585452.48 0.3677 0.1478

Jupiter 109145-03-30 02:51 G 41585540.57 41585540.62 41585540.68 0.0521 0.0465

Jupiter 109145-06-27 08:51 G 41585629.75 41585629.87 41585629.99 0.0518 0.0174

Neptune 109145-10-31 14:23 G 41585756.04 41585756.10 41585756.20 0.0089 0.0081

Mars 109145-12-24 14:37 G 41585809.99 41585810.11 41585810.22 0.1728 0.0450

Uranus 109146-01-25 20:08 G 41585842.30 41585842.34 41585842.41 0.0138 0.0131

Neptune 109146-01-27 17:59 G 41585844.15 41585844.25 41585844.39 0.0089 0.0071

Uranus 109146-04-24 03:20 G 41585930.53 41585930.64 41585930.78 0.0138 0.0105

Neptune 109146-04-25 21:35 G 41585932.28 41585932.40 41585932.56 0.0089 0.0061

Venus 109146-07-19 23:44 G 41586017.42 41586017.49 41586017.57 0.3698 0.3192

Uranus 109146-07-21 10:47 G 41586018.80 41586018.95 41586019.11 0.0138 0.0078

Neptune 109146-07-23 01:11 G 41586020.41 41586020.55 41586020.72 0.0089 0.0051

Uranus 109146-10-17 18:13 G 41586107.09 41586107.26 41586107.44 0.0138 0.0052

Neptune 109146-10-19 04:47 G 41586108.54 41586108.70 41586108.88 0.0089 0.0041

Uranus 109147-01-14 01:39 G 41586195.38 41586195.57 41586195.75 0.0138 0.0025

Neptune 109147-01-15 08:23 G 41586196.68 41586196.85 41586197.04 0.0089 0.0030

Uranus 109147-04-12 08:51 G 41586283.68 41586283.87 41586284.06 0.0138 0.0002

Neptune 109147-04-13 12:13 G 41586284.82 41586285.01 41586285.20 0.0089 0.0020

Moon 109147-06-02 13:11 G 41586334.94 41586335.05 41586335.16 0.2656 0.0465

Earth 109147-06-02 13:54 G 41586334.97 41586335.08 41586335.18 0.2654 0.0597 *

Uranus 109147-07-09 16:18 G 41586371.99 41586372.18 41586372.37 0.0138 0.0028

Neptune 109147-07-10 15:49 G 41586372.97 41586373.16 41586373.35 0.0089 0.0010

Uranus 109147-10-05 23:30 G 41586460.31 41586460.48 41586460.66 0.0137 0.0055

Neptune 109147-10-06 19:25 G 41586461.12 41586461.31 41586461.50 0.0089 0.0001

Uranus 109148-01-02 07:11 G 41586548.64 41586548.80 41586548.95 0.0137 0.0082

Neptune 109148-01-02 23:01 G 41586549.27 41586549.46 41586549.65 0.0089 0.0010

Uranus 109148-03-30 14:23 G 41586636.99 41586637.10 41586637.22 0.0137 0.0109

Neptune 109148-03-31 02:37 G 41586637.42 41586637.61 41586637.80 0.0089 0.0021

Uranus 109148-06-26 21:49 G 41586725.39 41586725.41 41586725.44 0.0137 0.0136

Neptune 109148-06-27 06:13 G 41586725.58 41586725.76 41586725.94 0.0089 0.0031

Neptune 109148-09-23 09:35 G 41586813.74 41586813.90 41586814.09 0.0090 0.0042

Neptune 109148-12-20 13:11 G 41586901.91 41586902.05 41586902.22 0.0090 0.0052

Neptune 109149-03-18 17:01 G 41586990.08 41586990.21 41586990.36 0.0090 0.0062

Neptune 109149-06-14 20:51 G 41587078.26 41587078.37 41587078.49 0.0090 0.0072

Neptune 109149-09-10 23:59 G 41587166.45 41587166.50 41587166.60 0.0090 0.0083

Venus 109150-07-17 13:11 G 41587475.95 41587476.05 41587476.15 0.3674 0.0245

Jupiter 109151-08-11 18:56 G 41587866.15 41587866.29 41587866.43 0.0507 0.0321

Saturn 109151-12-28 05:59 G 41588004.65 41588004.75 41588004.85 0.0297 0.0184

Venus 109152-02-03 08:23 G 41588041.72 41588041.85 41588041.97 0.3703 0.2086

Saturn 109152-03-25 18:27 G 41588093.14 41588093.27 41588093.40 0.0297 0.0009

Saturn 109152-06-22 06:56 G 41588181.68 41588181.79 41588181.90 0.0297 0.0172

Mars 109155-05-17 00:56 G 41589240.43 41589240.54 41589240.66 0.1736 0.0265

Venus 109156-01-31 05:01 G 41589499.62 41589499.71 41589499.79 0.3671 0.1925

Mars 109156-06-16 00:56 G 41589636.39 41589636.54 41589636.68 0.1816 0.0961

Earth 109156-12-01 16:32 G 41589805.17 41589805.19 41589805.22 0.2677 0.2630

Moon 109156-12-01 18:27 G 41589805.20 41589805.27 41589805.34 0.2674 0.2387 *

Jupiter 109157-04-15 12:56 G 41589939.91 41589940.04 41589940.17 0.0519 0.0021

Moon 109160-06-04 06:42 G 41591085.72 41591085.78 41591085.84 0.2658 0.2104

Earth 109160-06-04 06:56 G 41591085.73 41591085.79 41591085.85 0.2652 0.2172 *

Venus 109161-08-15 20:37 G 41591523.34 41591523.36 41591523.38 0.3667 0.3573

Jupiter 109163-08-29 02:08 G 41592266.46 41592266.59 41592266.73 0.0509 0.0334

Mars 109164-10-06 11:30 G 41592670.88 41592670.98 41592671.07 0.1744 0.0984

Mars 109165-11-05 19:54 G 41593066.17 41593066.33 41593066.49 0.1806 0.0649

Saturn 109166-10-14 20:37 G 41593409.28 41593409.36 41593409.46 0.0264 0.0230

Saturn 109167-01-11 17:15 G 41593498.04 41593498.22 41593498.41 0.0264 0.0051

Saturn 109167-04-10 13:54 G 41593586.92 41593587.08 41593587.25 0.0264 0.0131

Moon 109167-05-29 07:25 G 41593635.76 41593635.81 41593635.86 0.2652 0.2299

Earth 109167-05-29 07:54 G 41593635.78 41593635.83 41593635.88 0.2657 0.2287 *

Jupiter 109169-02-01 16:47 G 41594250.08 41594250.20 41594250.32 0.0520 0.0155

Jupiter 109169-05-01 22:18 G 41594339.38 41594339.43 41594339.48 0.0517 0.0471

Earth 109169-12-05 01:11 G 41594556.40 41594556.55 41594556.69 0.2679 0.1166

Moon 109169-12-05 02:08 G 41594556.45 41594556.59 41594556.73 0.2674 0.1271 *

Mars 109174-02-26 21:49 G 41596101.39 41596101.41 41596101.43 0.1752 0.1718

Jupiter 109175-06-16 22:47 G 41596576.28 41596576.45 41596576.63 0.0508 0.0112

Mars 109176-02-02 03:49 G 41596806.58 41596806.66 41596806.74 0.1720 0.1222

Moon 109180-05-31 00:42 G 41598386.42 41598386.53 41598386.63 0.2654 0.0847

Earth 109180-05-31 01:11 G 41598386.45 41598386.55 41598386.66 0.2655 0.0681 *

Jupiter 109180-11-20 21:06 G 41598560.27 41598560.38 41598560.48 0.0521 0.0313

Jupiter 109181-02-18 02:51 G 41598649.52 41598649.62 41598649.72 0.0518 0.0321

Saturn 109181-05-16 09:06 G 41598736.80 41598736.88 41598736.97 0.0296 0.0219

Saturn 109181-08-12 21:49 G 41598825.28 41598825.41 41598825.54 0.0296 0.0041

Saturn 109181-11-09 10:03 G 41598913.81 41598913.92 41598914.04 0.0296 0.0137

Mars 109185-06-24 14:37 G 41600237.00 41600237.11 41600237.22 0.1728 0.0539

Jupiter 109187-04-04 18:42 G 41600886.10 41600886.28 41600886.46 0.0508 0.0124

Uranus 109189-04-26 09:06 G 41601638.82 41601638.88 41601638.94 0.0140 0.0122

Uranus 109189-07-23 12:42 G 41601726.94 41601727.03 41601727.12 0.0140 0.0102

Uranus 109189-10-19 16:18 G 41601815.07 41601815.18 41601815.29 0.0140 0.0082

Uranus 109190-01-15 19:39 G 41601903.21 41601903.32 41601903.45 0.0140 0.0063

Uranus 109190-04-13 23:15 G 41601991.35 41601991.47 41601991.60 0.0140 0.0042

Uranus 109190-07-11 02:51 G 41602079.49 41602079.62 41602079.75 0.0140 0.0022

Uranus 109190-10-07 06:27 G 41602167.63 41602167.77 41602167.90 0.0140 0.0004

Uranus 109191-01-03 09:49 G 41602255.78 41602255.91 41602256.05 0.0141 0.0018

Uranus 109191-04-01 13:25 G 41602343.93 41602344.06 41602344.19 0.0141 0.0038

Uranus 109191-06-28 16:47 G 41602432.08 41602432.20 41602432.33 0.0141 0.0058

Uranus 109191-09-24 20:23 G 41602520.24 41602520.35 41602520.46 0.0141 0.0078

Uranus 109191-12-21 23:44 G 41602608.40 41602608.49 41602608.59 0.0141 0.0098

Uranus 109192-03-19 03:20 G 41602696.57 41602696.64 41602696.71 0.0141 0.0117

Uranus 109192-06-15 06:42 G 41602784.76 41602784.78 41602784.81 0.0141 0.0137

Jupiter 109192-09-09 01:25 G 41602870.51 41602870.56 41602870.62 0.0521 0.0465

Jupiter 109192-12-07 07:25 G 41602959.69 41602959.81 41602959.94 0.0518 0.0176

Moon 109193-06-02 17:59 G 41603137.15 41603137.25 41603137.36 0.2659 0.0905

Earth 109193-06-02 18:27 G 41603137.17 41603137.27 41603137.37 0.2654 0.0920 *

Mars 109194-11-15 00:56 G 41603667.43 41603667.54 41603667.66 0.1735 0.0173

Mars 109195-12-16 01:39 G 41604063.43 41604063.57 41604063.70 0.1816 0.1124

Venus 109196-01-23 02:51 G 41604101.55 41604101.62 41604101.69 0.3680 0.2647

Saturn 109196-05-30 17:15 G 41604230.05 41604230.22 41604230.39 0.0264 0.0097

Saturn 109196-08-27 13:39 G 41604318.90 41604319.07 41604319.25 0.0264 0.0084

Jupiter 109199-01-21 16:18 G 41605196.04 41605196.18 41605196.31 0.0507 0.0331

Venus 109201-08-07 18:56 G 41606125.19 41606125.29 41606125.39 0.3676 0.0900

Earth 109202-12-02 23:30 G 41606607.37 41606607.48 41606607.59 0.2677 0.1905

Moon 109202-12-03 00:27 G 41606607.40 41606607.52 41606607.65 0.2671 0.1633 *

Venus 109203-02-24 01:39 G 41606690.44 41606690.57 41606690.71 0.3699 0.1584

Mars 109204-04-06 11:30 G 41607097.88 41607097.98 41607098.07 0.1744 0.0897

Jupiter 109204-09-25 11:44 G 41607269.86 41607269.99 41607270.12 0.0519 0.0021

Mars 109205-05-06 20:51 G 41607493.21 41607493.37 41607493.54 0.1807 0.0466

Earth 109206-06-05 11:44 G 41607887.96 41607887.99 41607888.02 0.2652 0.2498

Moon 109206-06-05 11:59 G 41607887.97 41607888.00 41607888.03 0.2658 0.2516 *

Venus 109207-02-21 10:47 G 41608148.84 41608148.95 41608149.05 0.3673 0.0812

Pluto 109209-03-20 12:42 G 41608906.95 41608907.03 41608907.12 0.0060 0.0053

Pluto 109209-06-16 13:39 G 41608994.96 41608995.07 41608995.22 0.0060 0.0044

Pluto 109209-09-12 15:20 G 41609082.98 41609083.14 41609083.31 0.0060 0.0034

Pluto 109209-12-09 16:32 G 41609171.02 41609171.19 41609171.38 0.0060 0.0025

Pluto 109210-03-07 17:58 G 41609259.07 41609259.25 41609259.45 0.0060 0.0015

Pluto 109210-06-03 19:25 G 41609347.12 41609347.31 41609347.51 0.0060 0.0005

Pluto 109210-08-30 20:51 G 41609435.18 41609435.37 41609435.57 0.0060 0.0004

Saturn 109210-10-03 09:49 G 41609468.89 41609468.91 41609468.94 0.0297 0.0288

Pluto 109210-11-26 22:03 G 41609523.24 41609523.42 41609523.62 0.0060 0.0014

Saturn 109210-12-30 22:32 G 41609557.32 41609557.44 41609557.56 0.0297 0.0108

Jupiter 109211-02-07 23:44 G 41609596.36 41609596.49 41609596.63 0.0509 0.0330

Pluto 109211-02-22 23:15 G 41609611.31 41609611.47 41609611.67 0.0060 0.0024

Saturn 109211-03-29 11:01 G 41609645.83 41609645.96 41609646.09 0.0297 0.0070

Pluto 109211-05-22 00:56 G 41609699.38 41609699.54 41609699.71 0.0060 0.0034

Saturn 109211-06-25 23:15 G 41609734.41 41609734.47 41609734.55 0.0297 0.0247

Pluto 109211-08-18 02:08 G 41609787.47 41609787.59 41609787.74 0.0060 0.0043

Pluto 109211-11-14 03:20 G 41609875.57 41609875.64 41609875.75 0.0060 0.0053

Venus 109212-09-06 02:22 G 41610172.53 41610172.60 41610172.68 0.3670 0.2476

Moon 109213-05-29 11:58 G 41610437.94 41610438.00 41610438.07 0.2656 0.2101

Earth 109213-05-29 12:42 G 41610437.96 41610438.03 41610438.10 0.2656 0.1951 *

Mars 109213-08-27 21:49 G 41610528.37 41610528.41 41610528.45 0.1752 0.1632

Mars 109215-08-03 03:49 G 41611233.59 41611233.66 41611233.73 0.1720 0.1311

Moon 109215-12-06 06:56 G 41611358.67 41611358.79 41611358.92 0.2673 0.1680

Earth 109215-12-06 07:54 G 41611358.72 41611358.83 41611358.94 0.2679 0.1909 *

Jupiter 109216-07-14 15:49 G 41611580.04 41611580.16 41611580.29 0.0520 0.0142

Jupiter 109216-10-11 21:20 G 41611669.35 41611669.39 41611669.43 0.0516 0.0482

Jupiter 109222-11-26 21:06 G 41613906.20 41613906.38 41613906.56 0.0508 0.0115

Mars 109224-12-23 14:22 G 41614663.99 41614664.10 41614664.21 0.1728 0.0618

Saturn 109225-10-17 16:32 G 41614962.04 41614962.19 41614962.35 0.0264 0.0148

Saturn 109226-01-14 13:10 G 41615050.86 41615051.05 41615051.23 0.0264 0.0032

Neptune 109226-03-03 10:03 G 41615098.90 41615098.92 41615098.96 0.0088 0.0085

Saturn 109226-04-13 09:49 G 41615139.80 41615139.91 41615140.02 0.0264 0.0214

Neptune 109226-05-30 11:30 G 41615186.92 41615186.98 41615187.04 0.0088 0.0078

Moon 109226-06-01 05:44 G 41615188.64 41615188.74 41615188.85 0.2661 0.0363

Earth 109226-06-01 05:58 G 41615188.64 41615188.75 41615188.86 0.2655 0.0346 *

Neptune 109226-08-26 12:42 G 41615274.96 41615275.03 41615275.12 0.0088 0.0072

Neptune 109226-11-22 13:54 G 41615363.00 41615363.08 41615363.18 0.0088 0.0065

Neptune 109227-02-18 15:20 G 41615451.05 41615451.14 41615451.25 0.0088 0.0058

Neptune 109227-05-17 16:46 G 41615539.10 41615539.20 41615539.31 0.0088 0.0051

Neptune 109227-08-13 17:58 G 41615627.15 41615627.25 41615627.38 0.0088 0.0045

Neptune 109227-11-09 19:25 G 41615715.20 41615715.31 41615715.44 0.0088 0.0038

Neptune 109228-02-05 20:51 G 41615803.25 41615803.37 41615803.50 0.0088 0.0031

Jupiter 109228-05-02 19:25 G 41615890.21 41615890.31 41615890.42 0.0521 0.0313

Neptune 109228-05-03 22:18 G 41615891.30 41615891.43 41615891.56 0.0088 0.0024

Neptune 109228-07-30 23:30 G 41615979.35 41615979.48 41615979.61 0.0088 0.0018

Jupiter 109228-07-31 01:10 G 41615979.46 41615979.55 41615979.66 0.0517 0.0321 *

Neptune 109228-10-27 00:56 G 41616067.41 41616067.54 41616067.67 0.0088 0.0011

Neptune 109229-01-23 02:08 G 41616155.46 41616155.59 41616155.73 0.0088 0.0005

Neptune 109229-04-21 03:34 G 41616243.51 41616243.65 41616243.78 0.0088 0.0003

Neptune 109229-07-18 04:46 G 41616331.57 41616331.70 41616331.84 0.0088 0.0010

Neptune 109229-10-14 06:13 G 41616419.63 41616419.76 41616419.89 0.0088 0.0016

Neptune 109230-01-10 07:25 G 41616507.68 41616507.81 41616507.94 0.0088 0.0023

Uranus 109230-02-15 03:49 G 41616543.59 41616543.66 41616543.76 0.0138 0.0123

Neptune 109230-04-08 08:37 G 41616595.74 41616595.86 41616595.99 0.0088 0.0030

Uranus 109230-05-14 11:15 G 41616631.84 41616631.97 41616632.11 0.0138 0.0096

Neptune 109230-07-05 10:03 G 41616683.80 41616683.92 41616684.04 0.0088 0.0036

Uranus 109230-08-10 18:27 G 41616720.12 41616720.27 41616720.44 0.0138 0.0070

Neptune 109230-10-01 11:15 G 41616771.86 41616771.97 41616772.09 0.0088 0.0043

Uranus 109230-11-07 01:54 G 41616808.40 41616808.58 41616808.76 0.0138 0.0043

Neptune 109230-12-28 12:42 G 41616859.92 41616860.03 41616860.14 0.0088 0.0049

Uranus 109231-02-03 09:20 G 41616896.70 41616896.89 41616897.08 0.0138 0.0017

Neptune 109231-03-26 13:54 G 41616947.98 41616948.08 41616948.19 0.0088 0.0056

Uranus 109231-05-02 16:32 G 41616985.01 41616985.19 41616985.38 0.0138 0.0011

Neptune 109231-06-22 15:06 G 41617036.05 41617036.13 41617036.23 0.0088 0.0063

Uranus 109231-07-29 23:58 G 41617073.32 41617073.50 41617073.69 0.0138 0.0037

Neptune 109231-09-18 16:32 G 41617124.11 41617124.19 41617124.27 0.0088 0.0069

Uranus 109231-10-26 07:25 G 41617161.64 41617161.81 41617161.98 0.0137 0.0064

Neptune 109231-12-15 17:30 G 41617212.18 41617212.23 41617212.31 0.0088 0.0076

Uranus 109232-01-22 14:37 G 41617249.98 41617250.11 41617250.26 0.0137 0.0091

Neptune 109232-03-12 18:56 G 41617300.25 41617300.29 41617300.34 0.0088 0.0082

Uranus 109232-04-19 22:03 G 41617338.33 41617338.42 41617338.53 0.0137 0.0118

Mars 109234-05-16 00:56 G 41618094.42 41618094.54 41618094.65 0.1736 0.0085

Jupiter 109234-09-14 17:58 G 41618216.08 41618216.25 41618216.43 0.0508 0.0104

Mars 109235-06-16 02:37 G 41618490.49 41618490.61 41618490.73 0.1816 0.1315

Earth 109239-06-03 23:15 G 41619939.37 41619939.47 41619939.56 0.2653 0.1252

Moon 109239-06-03 23:44 G 41619939.39 41619939.49 41619939.58 0.2659 0.1288 *

Jupiter 109240-02-19 23:44 G 41620200.44 41620200.49 41620200.54 0.0521 0.0471

Saturn 109240-05-19 01:10 G 41620289.44 41620289.55 41620289.67 0.0297 0.0149

Jupiter 109240-05-19 05:44 G 41620289.62 41620289.74 41620289.86 0.0518 0.0170 *

Saturn 109240-08-15 13:54 G 41620377.95 41620378.08 41620378.21 0.0296 0.0031

Saturn 109240-11-12 02:08 G 41620466.50 41620466.59 41620466.69 0.0296 0.0207

Mars 109243-10-06 11:30 G 41621524.88 41621524.98 41621525.08 0.1743 0.0801

Mars 109244-11-04 21:34 G 41621920.23 41621920.40 41621920.56 0.1807 0.0315

Jupiter 109246-07-03 13:54 G 41622525.95 41622526.08 41622526.22 0.0507 0.0335

Moon 109248-12-03 05:01 G 41623409.58 41623409.71 41623409.85 0.2673 0.1405

Earth 109248-12-03 06:13 G 41623409.62 41623409.76 41623409.91 0.2677 0.1168 *

Jupiter 109252-03-07 10:32 G 41624599.81 41624599.94 41624600.07 0.0519 0.0023

Venus 109252-08-29 00:27 G 41624774.44 41624774.52 41624774.61 0.3679 0.2059

Mars 109253-02-25 21:34 G 41624955.35 41624955.40 41624955.46 0.1752 0.1548

Mars 109255-02-01 03:49 G 41625660.59 41625660.66 41625660.72 0.1720 0.1400

Saturn 109255-03-06 16:32 G 41625694.07 41625694.19 41625694.32 0.0264 0.0194

Saturn 109255-06-03 12:56 G 41625782.85 41625783.04 41625783.23 0.0264 0.0015

Saturn 109255-08-31 09:34 G 41625871.75 41625871.90 41625872.04 0.0264 0.0166

Venus 109258-03-14 16:18 G 41626798.08 41626798.18 41626798.29 0.3675 0.0350

Jupiter 109258-07-20 21:20 G 41626926.25 41626926.39 41626926.53 0.0509 0.0322

Moon 109259-05-30 17:15 G 41627240.14 41627240.22 41627240.31 0.2662 0.1699

Earth 109259-05-30 17:30 G 41627240.14 41627240.23 41627240.32 0.2656 0.1613 *

Venus 109259-10-01 03:34 G 41627363.49 41627363.65 41627363.80 0.3700 0.0060

Moon 109261-12-06 12:56 G 41628160.98 41628161.04 41628161.10 0.2680 0.2465

Earth 109261-12-06 14:51 G 41628161.10 41628161.12 41628161.13 0.2679 0.2655 *

Venus 109263-09-28 08:08 G 41628821.75 41628821.84 41628821.94 0.3672 0.1361

Jupiter 109263-12-25 14:51 G 41628909.99 41628910.12 41628910.24 0.0520 0.0134

Jupiter 109264-03-23 20:22 G 41628999.31 41628999.35 41628999.39 0.0516 0.0490

Mars 109264-06-23 14:22 G 41629090.99 41629091.10 41629091.20 0.1728 0.0707

Venus 109269-04-12 23:58 G 41630845.44 41630845.50 41630845.55 0.3669 0.3024

Saturn 109269-10-06 01:39 G 41631021.49 41631021.57 41631021.66 0.0297 0.0221

Saturn 109270-01-02 14:22 G 41631109.97 41631110.10 41631110.23 0.0297 0.0042

Saturn 109270-04-01 02:51 G 41631198.51 41631198.62 41631198.74 0.0297 0.0136

Jupiter 109270-05-08 18:56 G 41631236.12 41631236.29 41631236.47 0.0509 0.0114

Earth 109272-06-01 10:46 G 41631990.84 41631990.95 41631991.06 0.2655 0.0010

Moon 109272-06-01 11:15 G 41631990.86 41631990.97 41631991.08 0.2659 0.0134 *

Uranus 109273-02-17 12:56 G 41632252.02 41632252.04 41632252.07 0.0140 0.0136

Uranus 109273-05-16 16:32 G 41632340.12 41632340.19 41632340.27 0.0140 0.0116

Uranus 109273-08-12 20:08 G 41632428.25 41632428.34 41632428.44 0.0140 0.0096

Uranus 109273-11-08 23:44 G 41632516.38 41632516.49 41632516.60 0.0140 0.0076

Mars 109273-11-14 00:56 G 41632521.42 41632521.54 41632521.65 0.1735 0.0029

Uranus 109274-02-05 03:20 G 41632604.52 41632604.64 41632604.76 0.0140 0.0056

Uranus 109274-05-04 06:42 G 41632692.66 41632692.78 41632692.92 0.0140 0.0037

Uranus 109274-07-31 10:18 G 41632780.80 41632780.93 41632781.07 0.0140 0.0016

Uranus 109274-10-27 13:54 G 41632868.95 41632869.08 41632869.21 0.0140 0.0004

Mars 109274-12-15 03:34 G 41632917.55 41632917.65 41632917.74 0.1817 0.1492

Uranus 109275-01-23 17:15 G 41632957.09 41632957.22 41632957.36 0.0140 0.0025

Uranus 109275-04-21 20:51 G 41633045.25 41633045.37 41633045.50 0.0141 0.0044

Uranus 109275-07-19 00:27 G 41633133.40 41633133.52 41633133.64 0.0141 0.0064

Jupiter 109275-10-13 18:56 G 41633220.18 41633220.29 41633220.40 0.0520 0.0295

Uranus 109275-10-15 03:49 G 41633221.56 41633221.66 41633221.77 0.0141 0.0084

Jupiter 109276-01-11 00:42 G 41633309.43 41633309.53 41633309.62 0.0517 0.0336

Uranus 109276-01-11 07:10 G 41633309.72 41633309.80 41633309.90 0.0141 0.0104

Uranus 109276-04-08 10:32 G 41633397.89 41633397.94 41633398.02 0.0141 0.0124

Jupiter 109282-02-24 16:32 G 41635546.02 41635546.19 41635546.37 0.0508 0.0096

Mars 109283-04-06 11:15 G 41635951.87 41635951.97 41635952.08 0.1743 0.0722

Mars 109284-05-05 22:32 G 41636347.27 41636347.44 41636347.61 0.1807 0.0130

Saturn 109284-07-23 15:06 G 41636426.08 41636426.13 41636426.19 0.0264 0.0251

Saturn 109284-10-20 11:30 G 41636514.80 41636514.98 41636515.16 0.0264 0.0073

Saturn 109285-01-17 08:08 G 41636603.67 41636603.84 41636604.01 0.0264 0.0108

Earth 109285-06-04 04:03 G 41636741.58 41636741.67 41636741.75 0.2653 0.1583

Moon 109285-06-04 04:32 G 41636741.61 41636741.69 41636741.78 0.2649 0.1627 *

Jupiter 109287-08-01 22:32 G 41637530.39 41637530.44 41637530.50 0.0521 0.0466

Jupiter 109287-10-30 04:32 G 41637619.57 41637619.69 41637619.81 0.0518 0.0174

Mars 109292-08-26 21:49 G 41639382.34 41639382.41 41639382.47 0.1751 0.1452

Mars 109293-09-25 17:58 G 41639777.20 41639777.25 41639777.30 0.1797 0.1696

Jupiter 109293-12-13 13:54 G 41639855.93 41639856.08 41639856.22 0.0507 0.0309

Mars 109294-08-02 03:34 G 41640087.60 41640087.65 41640087.71 0.1720 0.1486

Moon 109294-12-04 11:30 G 41640211.83 41640211.98 41640212.14 0.2682 0.0780

Earth 109294-12-04 13:10 G 41640211.89 41640212.05 41640212.20 0.2678 0.0445 *

Saturn 109299-02-23 04:18 G 41641753.62 41641753.68 41641753.74 0.0297 0.0266

Saturn 109299-05-22 16:46 G 41641842.08 41641842.20 41641842.33 0.0297 0.0087

Jupiter 109299-08-18 09:06 G 41641929.75 41641929.88 41641930.01 0.0519 0.0023

Saturn 109299-08-19 05:30 G 41641930.60 41641930.73 41641930.85 0.0297 0.0092

Saturn 109299-11-15 17:44 G 41642019.19 41642019.24 41642019.30 0.0296 0.0268

Venus 109303-09-21 05:58 G 41643423.71 41643423.75 41643423.80 0.3681 0.3239

Mars 109303-12-24 14:22 G 41643518.00 41643518.10 41643518.20 0.1727 0.0801

Pluto 109304-09-15 15:49 G 41643784.12 41643784.16 41643784.20 0.0085 0.0080

Pluto 109304-12-12 16:46 G 41643872.12 41643872.20 41643872.30 0.0085 0.0062

Pluto 109305-03-10 18:13 G 41643960.15 41643960.26 41643960.38 0.0084 0.0043

Earth 109305-05-31 22:18 G 41644042.33 41644042.43 41644042.52 0.2656 0.1279

Moon 109305-05-31 23:01 G 41644042.36 41644042.46 41644042.55 0.2658 0.1147 *

Pluto 109305-06-06 19:25 G 41644048.19 41644048.31 41644048.44 0.0084 0.0025

Pluto 109305-09-02 20:37 G 41644136.23 41644136.36 41644136.50 0.0084 0.0006

Pluto 109305-11-29 21:49 G 41644224.28 41644224.41 41644224.54 0.0084 0.0012

Jupiter 109305-12-31 19:25 G 41644256.17 41644256.31 41644256.45 0.0509 0.0322

Pluto 109306-02-25 23:01 G 41644312.34 41644312.46 41644312.58 0.0084 0.0030

Pluto 109306-05-25 00:13 G 41644400.40 41644400.51 41644400.62 0.0084 0.0048

Pluto 109306-08-21 01:25 G 41644488.48 41644488.56 41644488.64 0.0084 0.0066

Venus 109309-04-05 22:03 G 41645447.32 41645447.42 41645447.51 0.3678 0.1480

Neptune 109310-05-02 08:51 G 41645838.84 41645838.87 41645838.90 0.0089 0.0088

Neptune 109310-07-29 11:44 G 41645926.93 41645926.99 41645927.11 0.0089 0.0079

Venus 109310-10-22 21:20 G 41646012.35 41646012.39 41646012.43 0.3696 0.3525

Neptune 109310-10-25 15:20 G 41646015.04 41646015.14 41646015.29 0.0089 0.0069

Neptune 109311-01-21 18:56 G 41646103.17 41646103.29 41646103.46 0.0089 0.0059

Neptune 109311-04-19 22:32 G 41646191.30 41646191.44 41646191.62 0.0089 0.0049

Jupiter 109311-06-07 13:39 G 41646239.95 41646240.07 41646240.20 0.0520 0.0127

Neptune 109311-07-17 02:08 G 41646279.43 41646279.59 41646279.78 0.0089 0.0039

Jupiter 109311-09-04 19:10 G 41646329.27 41646329.30 41646329.33 0.0517 0.0498

Neptune 109311-10-13 05:44 G 41646367.57 41646367.74 41646367.94 0.0089 0.0029

Neptune 109312-01-09 09:34 G 41646455.72 41646455.90 41646456.09 0.0089 0.0018

Neptune 109312-04-06 13:10 G 41646543.86 41646544.05 41646544.25 0.0089 0.0008

Neptune 109312-07-03 16:46 G 41646632.01 41646632.20 41646632.40 0.0089 0.0003

Neptune 109312-09-29 20:22 G 41646720.16 41646720.35 41646720.54 0.0089 0.0012

Neptune 109312-12-26 23:58 G 41646808.32 41646808.50 41646808.69 0.0089 0.0023

Neptune 109313-03-25 03:34 G 41646896.48 41646896.65 41646896.83 0.0089 0.0033

Mars 109313-05-16 00:56 G 41646948.42 41646948.54 41646948.65 0.1735 0.0110

Neptune 109313-06-21 07:25 G 41646984.64 41646984.81 41646984.98 0.0089 0.0043

Neptune 109313-09-17 10:32 G 41647072.80 41647072.94 41647073.11 0.0089 0.0054

Neptune 109313-12-14 14:22 G 41647160.97 41647161.10 41647161.24 0.0090 0.0064

Uranus 109314-03-08 11:15 G 41647244.88 41647244.97 41647245.09 0.0138 0.0115

Saturn 109314-03-10 11:15 G 41647246.81 41647246.97 41647247.15 0.0264 0.0120

Neptune 109314-03-12 17:58 G 41647249.15   41647249.25   41647249.37 0.0090 0.0074

Uranus   109314-06-04 18:27 G 41647333.14   41647333.27   41647333.43 0.0138 0.0089

Saturn   109314-06-07 07:54 G 41647335.65   41647335.83   41647336.01 0.0264 0.0060

Neptune 109314-06-08 21:49 G 41647337.35   41647337.41   41647337.48 0.0090 0.0084

Mars   109314-06-16 04:03 G 41647344.61   41647344.67   41647344.74 0.1817 0.1653

Uranus   109314-09-01 01:54 G 41647421.42   41647421.58   41647421.76 0.0138 0.0062

Saturn   109314-09-04 04:32 G 41647424.62   41647424.69   41647424.76 0.0264 0.0242

Venus   109314-10-20 13:54 G 41647470.98   41647471.08   41647471.18 0.3674 0.0240

Uranus   109314-11-28 09:20 G 41647509.71   41647509.89   41647510.08 0.0138 0.0035

Uranus   109315-02-24 16:46 G 41647598.01   41647598.20   41647598.39 0.0138 0.0009

Uranus   109315-05-23 23:58 G 41647686.32   41647686.50   41647686.70 0.0138 0.0019

Uranus   109315-08-20 07:39 G 41647774.64   41647774.82   41647775.00 0.0138 0.0045

Uranus   109315-11-16 14:51 G 41647862.96   41647863.12   41647863.29 0.0137 0.0072

Uranus   109316-02-12 22:18 G 41647951.30   41647951.43   41647951.57 0.0137 0.0099

Venus   109316-05-08 05:30 G 41648036.59   41648036.73   41648036.87 0.3701 0.1660

Uranus   109316-05-11 05:44 G 41648039.67   41648039.74   41648039.82 0.0137 0.0125

Jupiter 109317-10-19 16:46 G 41648566.02   41648566.20   41648566.38 0.0508 0.0111

Earth   109318-06-03 15:34 G 41648793.04   41648793.15   41648793.26 0.2654 0.0332

Moon   109318-06-03 16:03 G 41648793.06   41648793.17   41648793.28 0.2650 0.0379 *

Venus   109320-05-05 05:44 G 41649494.65   41649494.74   41649494.83 0.3671 0.1921

Mars   109322-10-06 11:15 G 41650378.87   41650378.97   41650379.08 0.1743 0.0629

Jupiter 109323-03-26 17:58 G 41650550.14   41650550.25   41650550.36 0.0520 0.0284

Jupiter 109323-06-23 23:44 G 41650639.40   41650639.49   41650639.58 0.0517 0.0348

Mars   109323-11-05 23:30 G 41650774.31   41650774.48   41650774.65 0.1807 0.0052

Venus   109325-11-18 21:20 G 41651518.37   41651518.39   41651518.41 0.3668 0.3570

Saturn   109328-10-09 17:01 G 41652574.10   41652574.21   41652574.32 0.0297 0.0163

Saturn   109329-01-06 05:44 G 41652662.61   41652662.74   41652662.87 0.0297 0.0018

Saturn   109329-04-04 17:58 G 41652751.16   41652751.25   41652751.35 0.0297 0.0193

Jupiter 109329-08-07 14:37 G 41652875.93   41652876.11   41652876.29 0.0508 0.0095

Moon   109331-06-06 08:37 G 41653543.79   41653543.86   41653543.93 0.2646 0.1932

Earth 109331-06-06 08:51 G 41653543.79 41653543.87 41653543.94 0.2653 0.1915 *

Mars 109332-02-26 21:34 G 41653809.33 41653809.40 41653809.47 0.1751 0.1370

Mars 109333-03-27 18:42 G 41654204.20 41654204.28 41654204.37 0.1797 0.1527

Mars 109334-02-01 03:34 G 41654514.61 41654514.65 41654514.70 0.1719 0.1576

Jupiter 109335-01-12 22:03 G 41654860.35 41654860.42 41654860.49 0.0521 0.0445

Jupiter 109335-04-12 04:03 G 41654949.55 41654949.67 41654949.79 0.0518 0.0193

Earth 109338-05-30 09:34 G 41656093.88 41656093.90 41656093.93 0.2657 0.2558

Moon 109338-05-30 10:18 G 41656093.90 41656093.93 41656093.97 0.2658 0.2502 *

Earth 109340-12-05 19:54 G 41657014.17 41657014.33 41657014.49 0.2678 0.0292

Moon 109340-12-05 20:08 G 41657014.19 41657014.34 41657014.50 0.2685 0.0429 *

Jupiter 109341-05-26 12:27 G 41657185.88 41657186.02 41657186.17 0.0507 0.0299

Mars 109343-06-24 14:08 G 41657945.00 41657945.09 41657945.19 0.1727 0.0885

Saturn 109343-07-28 09:34 G 41657978.77 41657978.90 41657979.04 0.0264 0.0181

Saturn 109343-10-25 05:58 G 41658067.56 41658067.75 41658067.94 0.0264 0.0003

Saturn 109344-01-22 02:22 G 41658156.47 41658156.60 41658156.75 0.0264 0.0180

Jupiter 109347-01-29 07:54 G 41659259.70 41659259.83 41659259.96 0.0519 0.0031

Earth 109351-06-02 03:06 G 41660844.52 41660844.63 41660844.73 0.2656 0.0944

Moon 109351-06-02 03:34 G 41660844.54 41660844.65 41660844.75 0.2651 0.0811 *

Mars 109352-11-14 00:42 G 41661375.42 41661375.53 41661375.65 0.1735 0.0196

Jupiter 109353-06-12 19:25 G 41661586.18 41661586.31 41661586.44 0.0509 0.0354

Uranus 109357-03-10 20:08 G 41662953.31 41662953.34 41662953.40 0.0140 0.0131

Uranus 109357-06-06 23:44 G 41663041.42 41663041.49 41663041.58 0.0140 0.0111

Uranus 109357-09-03 03:34 G 41663129.55 41663129.65 41663129.75 0.0140 0.0090

Uranus 109357-11-30 07:10 G 41663217.68 41663217.80 41663217.92 0.0140 0.0070

Uranus 109358-02-26 10:46 G 41663305.82 41663305.95 41663306.07 0.0140 0.0050

Saturn 109358-02-26 19:10 G 41663306.21 41663306.30 41663306.39 0.0297 0.0212

Uranus 109358-05-25 14:08 G 41663393.96 41663394.09 41663394.23 0.0140 0.0031

Saturn 109358-05-26 07:54 G 41663394.70 41663394.83 41663394.96 0.0297 0.0033

Uranus 109358-08-21 17:44 G 41663482.11 41663482.24 41663482.38 0.0140 0.0010

Saturn 109358-08-22 20:22 G 41663483.23 41663483.35 41663483.46 0.0297 0.0145

Jupiter 109358-11-17 12:13 G 41663569.89 41663570.01 41663570.14 0.0520 0.0126

Uranus 109358-11-17 21:20 G 41663570.25 41663570.39 41663570.52 0.0140 0.0010

Uranus 109359-02-14 00:42 G 41663658.40 41663658.53 41663658.66 0.0140 0.0030

Jupiter 109359-02-14 17:58 G 41663659.22 41663659.25 41663659.28 0.0517 0.0500

Uranus 109359-05-13 04:18 G 41663746.56 41663746.68 41663746.80 0.0140 0.0050

Uranus 109359-08-09 07:39 G 41663834.71 41663834.82 41663834.94 0.0141 0.0070

Uranus 109359-11-05 11:01 G 41663922.87 41663922.96 41663923.07 0.0141 0.0090

Uranus 109360-02-01 14:51 G 41664011.03 41664011.12 41664011.20 0.0141 0.0109

Venus 109360-04-27 03:34 G 41664096.58 41664096.65 41664096.72 0.3680 0.2647

Uranus 109360-04-29 18:13 G 41664099.21 41664099.26 41664099.31 0.0141 0.0129

Mars 109362-04-06 11:15 G 41664805.86 41664805.97 41664806.08 0.1743 0.0539

Mars 109363-05-07 00:13 G 41665201.34 41665201.51 41665201.67 0.1807 0.0212

Moon 109364-06-03 19:54 G 41665595.23 41665595.33 41665595.44 0.2648 0.0554

Earth 109364-06-03 20:22 G 41665595.24 41665595.35 41665595.45 0.2654 0.0670 *

Jupiter 109365-03-31 15:06 G 41665895.95 41665896.13 41665896.31 0.0508 0.0115

Venus 109365-11-10 19:39 G 41666120.22 41666120.32 41666120.42 0.3677 0.0904

Venus 109367-05-29 23:15 G 41666685.34 41666685.47 41666685.59 0.3698 0.1946

Jupiter 109370-09-05 17:01 G 41667880.10 41667880.21 41667880.32 0.0521 0.0275

Jupiter 109370-12-03 22:46 G 41667969.36 41667969.45 41667969.54 0.0518 0.0358

Venus 109371-05-27 11:30 G 41668143.88 41668143.98 41668144.08 0.3674 0.0807

Mars 109371-08-27 21:34 G 41668236.32 41668236.40 41668236.48 0.1751 0.1278

Mars 109372-09-25 19:39 G 41668631.21 41668631.32 41668631.43 0.1798 0.1359

Venus 109372-12-13 07:39 G 41668709.75 41668709.82 41668709.88 0.3703 0.3334

Saturn 109372-12-14 09:20 G 41668710.81 41668710.89 41668710.99 0.0264 0.0228

Saturn 109373-03-13 05:44 G 41668799.56 41668799.74 41668799.93 0.0264 0.0050

Saturn 109373-06-10 02:08 G 41668888.43 41668888.59 41668888.76 0.0264 0.0131

Mars 109373-08-02 03:34 G 41668941.63 41668941.65 41668941.68 0.1719 0.1665

Venus 109376-12-10 03:06 G 41670167.56 41670167.63 41670167.71 0.3670 0.2481

Jupiter 109377-01-17 12:42 G 41670205.85 41670206.03 41670206.21 0.0508 0.0094

Moon 109377-06-06 12:56 G 41670345.98 41670346.04 41670346.10 0.2653 0.2180

Earth 109377-06-06 13:25 G 41670346.01 41670346.06 41670346.12 0.2653 0.2248 *

Jupiter 109382-06-24 21:06 G 41672190.31 41672190.38 41672190.46 0.0521 0.0433

Jupiter 109382-09-22 03:20 G 41672279.52 41672279.64 41672279.75 0.0518 0.0207

Mars 109382-12-23 14:08 G 41672372.00 41672372.09 41672372.19 0.1727 0.0975

Earth 109384-05-30 14:22 G 41672896.05 41672896.10 41672896.16 0.2657 0.2222

Moon 109384-05-30 14:51 G 41672896.05 41672896.12 41672896.18 0.2651 0.2134 *

Earth 109386-12-07 02:37 G 41673816.46 41673816.61 41673816.76 0.2678 0.1014

Moon 109386-12-07 04:18 G 41673816.54 41673816.68 41673816.82 0.2677 0.1377 *

Saturn 109387-07-16 19:10 G 41674038.28 41674038.30 41674038.34 0.0297 0.0289

Saturn 109387-10-13 08:08 G 41674126.71 41674126.84 41674126.96 0.0297 0.0109

Saturn 109388-01-09 20:37 G 41674215.23 41674215.36 41674215.49 0.0297 0.0070

Saturn 109388-04-07 08:51 G 41674303.80 41674303.87 41674303.95 0.0297 0.0246

Jupiter 109388-11-05 10:46 G 41674515.80 41674515.95 41674516.09 0.0507 0.0295

Neptune 109390-11-29 09:20 G 41675269.86 41675269.89 41675269.94 0.0088 0.0083

Neptune 109391-02-25 11:01 G 41675357.89 41675357.96 41675358.02 0.0088 0.0076

Neptune 109391-05-24 11:58 G 41675445.93 41675446.00 41675446.09 0.0088 0.0070

Neptune 109391-08-20 13:25 G 41675533.98 41675534.06 41675534.16 0.0088 0.0063

Neptune 109391-11-16 14:51 G 41675622.02 41675622.12 41675622.23 0.0088 0.0056

Neptune 109392-02-12 16:18 G 41675710.07 41675710.18 41675710.29 0.0088 0.0049

Neptune 109392-05-10 17:30 G 41675798.12 41675798.23 41675798.35 0.0088 0.0043

Mars 109392-05-15 00:42 G 41675802.42 41675802.53 41675802.65 0.1735 0.0272

Neptune 109392-08-06 18:56 G 41675886.17 41675886.29 41675886.41 0.0088 0.0036

Neptune 109392-11-02 20:08 G 41675974.22 41675974.34 41675974.47 0.0088 0.0029

Neptune 109393-01-29 21:34 G 41676062.27 41676062.40 41676062.53 0.0088 0.0022

Neptune 109393-04-27 22:46 G 41676150.33 41676150.45 41676150.59 0.0088 0.0016

Neptune 109393-07-25 00:13 G 41676238.38 41676238.51 41676238.65 0.0088 0.0009

Neptune 109393-10-21 01:39 G 41676326.43 41676326.57 41676326.70 0.0088 0.0002

Neptune 109394-01-17 02:51 G 41676414.49 41676414.62 41676414.76 0.0088 0.0005

Neptune 109394-04-15 04:18 G 41676502.55 41676502.68 41676502.81 0.0088 0.0011

Jupiter 109394-07-11 07:39 G 41676589.69 41676589.82 41676589.95 0.0519 0.0053

Neptune 109394-07-12 05:30 G 41676590.60 41676590.73 41676590.86 0.0088 0.0018

Neptune 109394-10-08 06:42 G 41676678.66 41676678.78 41676678.92 0.0088 0.0025

Neptune 109395-01-04 08:08 G 41676766.72 41676766.84 41676766.97 0.0088 0.0031

Neptune 109395-04-02 09:20 G 41676854.78 41676854.89 41676855.02 0.0088 0.0038

Neptune 109395-06-29 10:32 G 41676942.84 41676942.94 41676943.07 0.0088 0.0045

Neptune 109395-09-25 12:13 G 41677030.90 41677031.01 41677031.11 0.0088 0.0051

Neptune 109395-12-22 13:10 G 41677118.96 41677119.05 41677119.16 0.0088 0.0058

Neptune 109396-03-19 14:22 G 41677207.03 41677207.10 41677207.20 0.0088 0.0065

Neptune 109396-06-15 15:49 G 41677295.09 41677295.16 41677295.25 0.0088 0.0071

Neptune 109396-09-11 17:01 G 41677383.16 41677383.21 41677383.28 0.0088 0.0078

Neptune 109396-12-08 18:27 G 41677471.24 41677471.27 41677471.31 0.0088 0.0084

Moon 109397-06-02 07:10 G 41677646.70 41677646.80 41677646.91 0.2651 0.0717

Earth 109397-06-02 07:54 G 41677646.72 41677646.83 41677646.93 0.2655 0.0611 *

Uranus 109397-12-30 11:58 G 41677857.95 41677858.00 41677858.05 0.0138 0.0132

Uranus 109398-03-28 19:10 G 41677946.19 41677946.30 41677946.42 0.0138 0.0106

Uranus 109398-06-25 02:22 G 41678034.46 41678034.60 41678034.76 0.0138 0.0080

Uranus 109398-09-21 09:49 G 41678122.74 41678122.91 41678123.09 0.0138 0.0053

Uranus 109398-12-18 17:01 G 41678211.03 41678211.21 41678211.40 0.0138 0.0027

Uranus 109399-03-17 00:27 G 41678299.33 41678299.52 41678299.71 0.0138 0.0002

Uranus 109399-06-13 07:54 G 41678387.64 41678387.83 41678388.02 0.0138 0.0027

Uranus 109399-09-09 15:20 G 41678475.96 41678476.14 41678476.31 0.0138 0.0054

Uranus 109399-12-06 22:32 G 41678564.30 41678564.44 41678564.60 0.0137 0.0081

Uranus 109400-03-05 05:58 G 41678652.64 41678652.75 41678652.88 0.0137 0.0108

Uranus 109400-06-01 13:25 G 41678741.04 41678741.06 41678741.11 0.0137 0.0135

Jupiter 109400-08-25 08:51 G 41678825.83 41678825.87 41678825.90 0.0506 0.0495

Jupiter 109400-11-23 18:27 G 41678916.14 41678916.27 41678916.39 0.0509 0.0367

Mars 109401-10-06 11:15 G 41679232.86 41679232.97 41679233.08 0.1743 0.0452

Saturn 109402-08-01 03:20 G 41679531.48 41679531.64 41679531.81 0.0264 0.0116

Saturn 109402-10-28 23:44 G 41679620.31 41679620.49 41679620.68 0.0264 0.0065

Mars 109402-11-06 01:10 G 41679628.38 41679628.55 41679628.71 0.1808 0.0394

Saturn 109403-01-25 20:22 G 41679709.29 41679709.35 41679709.42 0.0264 0.0246

Jupiter 109406-04-30 11:30 G 41680899.85 41680899.98 41680900.10 0.0520 0.0114

Jupiter 109406-07-28 17:01 G 41680989.19 41680989.21 41680989.23 0.0517 0.0509

Moon 109410-06-06 00:27 G 41682397.42 41682397.52 41682397.62 0.2655 0.0932

Earth 109410-06-06 00:56 G 41682397.44 41682397.54 41682397.64 0.2654 0.1003 *

Mars 109411-02-26 21:34 G 41682663.32 41682663.40 41682663.48 0.1751 0.1186

Mars 109412-03-27 20:37 G 41683058.23 41683058.36 41683058.49 0.1798 0.1180

Jupiter 109412-09-11 15:20 G 41683225.97 41683226.14 41683226.32 0.0508 0.0149

Venus 109416-12-03 01:10 G 41684769.47 41684769.55 41684769.64 0.3679 0.2057

Saturn 109417-03-02 09:49 G 41684858.80 41684858.91 41684859.02 0.0297 0.0162

Saturn 109417-05-29 22:32 G 41684947.31 41684947.44 41684947.57 0.0297 0.0017

Saturn 109417-08-26 11:01 G 41685035.86 41685035.96 41685036.05 0.0296 0.0194

Jupiter 109418-02-16 15:49 G 41685210.05 41685210.16 41685210.27 0.0521 0.0270

Jupiter 109418-05-16 21:34 G 41685299.31 41685299.40 41685299.49 0.0518 0.0362

Earth 109419-12-06 01:10 G 41685867.45 41685867.55 41685867.65 0.2677 0.2032

Moon 109419-12-06 02:37 G 41685867.49 41685867.61 41685867.74 0.2674 0.1727 *

Venus 109422-06-18 17:15 G 41686793.11 41686793.22 41686793.32 0.3676 0.0350

Mars 109422-06-24 14:08 G 41686799.00 41686799.09 41686799.18 0.1727 0.1068

Moon 109423-06-08 18:13 G 41687148.23 41687148.26 41687148.29 0.2659 0.2523

Earth 109423-06-08 18:13 G 41687148.24 41687148.26 41687148.28 0.2652 0.2578 *

Venus 109424-01-05 01:10 G 41687358.39 41687358.55 41687358.70 0.3699 0.0354

Jupiter 109424-06-30 11:15 G 41687535.79 41687535.97 41687536.15 0.0507 0.0085

Venus 109428-01-02 09:06 G 41688816.78 41688816.88 41688816.97 0.3673 0.1378

Jupiter 109429-12-05 20:08 G 41689520.27 41689520.34 41689520.42 0.0522 0.0423

Jupiter 109430-03-05 02:22 G 41689609.48 41689609.60 41689609.71 0.0519 0.0217

Moon 109430-06-01 18:42 G 41689698.20 41689698.28 41689698.35 0.2653 0.1919

Earth 109430-06-01 19:10 G 41689698.23 41689698.30 41689698.38 0.2657 0.1882 *

Mars 109431-11-15 00:42 G 41690229.42 41690229.53 41690229.64 0.1734 0.0360

Saturn 109431-12-19 03:20 G 41690263.49 41690263.64 41690263.79 0.0264 0.0162

Saturn 109432-03-16 23:44 G 41690352.30 41690352.49 41690352.68 0.0264 0.0017

Saturn 109432-06-13 20:08 G 41690441.22 41690441.34 41690441.47 0.0264 0.0198

Moon 109432-12-08 09:49 G 41690618.78 41690618.91 41690619.03 0.2672 0.1707

Earth 109432-12-08 09:34 G 41690618.78 41690618.90 41690619.02 0.2679 0.1759 *

Venus 109433-07-18 00:42 G 41690840.48 41690840.53 41690840.59 0.3669 0.3029

Jupiter 109436-04-18 08:51 G 41691845.73 41691845.87 41691846.02 0.0507 0.0291

Uranus 109441-04-01 04:03 G 41693654.62 41693654.67 41693654.74 0.0140 0.0123

Mars 109441-04-06 11:15 G 41693659.86 41693659.97 41693660.08 0.1743 0.0363

Uranus 109441-06-28 07:39 G 41693742.74 41693742.82 41693742.92 0.0140 0.0103

Uranus 109441-09-24 11:15 G 41693830.87 41693830.97 41693831.08 0.0140 0.0083

Uranus 109441-12-21 14:51 G 41693919.00 41693919.12 41693919.24 0.0140 0.0063

Jupiter 109441-12-22 06:42 G 41693919.66 41693919.78 41693919.91 0.0519 0.0068

Uranus 109442-03-19 18:27 G 41694007.14 41694007.27 41694007.40 0.0140 0.0043

Mars 109442-05-07 02:08 G 41694055.43 41694055.59 41694055.75 0.1808 0.0581

Uranus 109442-06-15 22:03 G 41694095.29 41694095.42 41694095.55 0.0140 0.0023

Uranus 109442-09-12 01:39 G 41694183.43 41694183.57 41694183.70 0.0140 0.0005

Uranus 109442-12-09 05:01 G 41694271.58 41694271.71 41694271.85 0.0140 0.0017

Uranus 109443-03-07 08:37 G 41694359.73 41694359.86 41694359.99 0.0140 0.0037

Uranus 109443-06-03 11:58 G 41694447.88 41694448.00 41694448.13 0.0141 0.0057

Moon 109443-06-04 11:58 G 41694448.89 41694449.00 41694449.10 0.2658 0.0436

Earth 109443-06-04 12:27 G 41694448.91 41694449.02 41694449.13 0.2655 0.0274 *

Uranus 109443-08-30 15:34 G 41694536.04 41694536.15 41694536.26 0.0141 0.0077

Uranus 109443-11-26 18:56 G 41694624.20 41694624.29 41694624.39 0.0141 0.0097

Uranus 109444-02-22 22:18 G 41694712.37 41694712.43 41694712.51 0.0141 0.0117

Uranus 109444-05-21 02:08 G 41694800.56 41694800.59 41694800.62 0.0141 0.0136

Saturn 109446-07-20 10:03 G 41695590.85 41695590.92 41695591.00 0.0297 0.0238

Saturn 109446-10-16 22:46 G 41695679.32 41695679.45 41695679.58 0.0297 0.0058

Saturn 109447-01-13 11:15 G 41695767.85 41695767.97 41695768.09 0.0297 0.0119

Saturn 109447-04-11 23:30 G 41695856.48 41695856.48 41695856.49 0.0297 0.0295

Jupiter 109448-02-05 06:56 G 41696155.76 41696155.79 41696155.84 0.0506 0.0490

Jupiter 109448-05-05 16:32 G 41696246.07 41696246.19 41696246.32 0.0509 0.0371

Mars 109450-08-27 21:34 G 41697090.31 41697090.40 41697090.49 0.1751 0.1099

Mars 109451-09-26 21:20 G 41697485.25 41697485.39 41697485.53 0.1798 0.1019

Jupiter 109453-10-10 11:01 G 41698229.83 41698229.96 41698230.09 0.0520 0.0091

Pluto 109456-02-02 20:51 G 41699075.35 41699075.37 41699075.45 0.0060 0.0058

Pluto 109456-04-30 22:32 G 41699163.34 41699163.44 41699163.57 0.0060 0.0048

Earth 109456-06-06 05:44 G 41699199.65 41699199.74 41699199.84 0.2653 0.1328

Moon 109456-06-06 05:58 G 41699199.66 41699199.75 41699199.84 0.2660 0.1407 *

Pluto 109456-07-28 00:13 G 41699251.36 41699251.51 41699251.66 0.0060 0.0038

Pluto 109456-10-24 01:10 G 41699339.40 41699339.55 41699339.74 0.0060 0.0029

Pluto 109457-01-20 02:51 G 41699427.44 41699427.62 41699427.81 0.0060 0.0019

Pluto 109457-04-18 04:03 G 41699515.49 41699515.67 41699515.88 0.0060 0.0010

Pluto 109457-07-15 05:44 G 41699603.54 41699603.74 41699603.94 0.0060 0.0000

Pluto 109457-10-11 06:56 G 41699691.60 41699691.79 41699691.99 0.0060 0.0010

Pluto 109458-01-07 08:08 G 41699779.67 41699779.84 41699780.04 0.0060 0.0020

Pluto 109458-04-05 09:34 G 41699867.74 41699867.90 41699868.08 0.0060 0.0029

Pluto 109458-07-02 10:46 G 41699955.82 41699955.95 41699956.12 0.0060 0.0039

Pluto 109458-09-28 11:58 G 41700043.91 41700044.00 41700044.14 0.0060 0.0049

Pluto 109458-12-25 13:39 G 41700132.04 41700132.07 41700132.13 0.0060 0.0059

Jupiter 109460-02-22 14:08 G 41700555.92 41700556.09 41700556.27 0.0509 0.0162

Saturn 109461-05-07 00:27 G 41700995.44 41700995.52 41700995.62 0.0264 0.0231

Saturn 109461-08-03 20:51 G 41701084.19 41701084.37 41701084.56 0.0264 0.0052

Saturn 109461-10-31 17:15 G 41701173.07 41701173.22 41701173.39 0.0264 0.0129

Mars 109461-12-23 14:08 G 41701226.01 41701226.09 41701226.17 0.1727 0.1150

Jupiter 109465-07-29 14:51 G 41702540.01 41702540.12 41702540.23 0.0521 0.0258

Jupiter 109465-10-26 20:37 G 41702629.27 41702629.36 41702629.45 0.0517 0.0373

Moon 109465-12-06 07:10 G 41702669.66 41702669.80 41702669.95 0.2670 0.1294

Earth 109465-12-06 07:54 G 41702669.69 41702669.83 41702669.97 0.2677 0.1307 *

Venus 109467-12-25 06:42 G 41703418.74 41703418.78 41703418.83 0.3682 0.3231

Mars 109471-05-16 00:42 G 41704656.42 41704656.53 41704656.64 0.1735 0.0450

Jupiter 109471-12-11 11:30 G 41704865.80 41704865.98 41704866.16 0.0508 0.0052

Venus 109473-07-09 22:46 G 41705442.36 41705442.45 41705442.55 0.3678 0.1473

Neptune 109475-01-28 05:44 G 41706009.71 41706009.74 41706009.81 0.0089 0.0087

Neptune 109475-04-26 09:20 G 41706097.81 41706097.89 41706098.01 0.0089 0.0077

Neptune 109475-07-23 12:56 G 41706185.93 41706186.04 41706186.18 0.0089 0.0067

Neptune 109475-10-19 16:32 G 41706274.05 41706274.19 41706274.35 0.0089 0.0056

Saturn 109475-12-07 11:44 G 41706322.98 41706322.99 41706323.01 0.0297 0.0293

Neptune 109476-01-15 20:08 G 41706362.19 41706362.34 41706362.51 0.0089 0.0046

Saturn 109476-03-05 00:27 G 41706411.40 41706411.52 41706411.65 0.0297 0.0113

Neptune 109476-04-12 23:44 G 41706450.32 41706450.49 41706450.67 0.0089 0.0036

Saturn 109476-06-01 13:10 G 41706499.92 41706500.05 41706500.17 0.0297 0.0066

Moon 109476-06-01 23:30 G 41706500.40 41706500.48 41706500.56 0.2662 0.1649

Earth 109476-06-01 23:58 G 41706500.41 41706500.50 41706500.59 0.2656 0.1545 *

Neptune 109476-07-10 03:20 G 41706538.46 41706538.64 41706538.83 0.0089 0.0026

Saturn 109476-08-29 01:25 G 41706588.49 41706588.56 41706588.64 0.0296 0.0242

Neptune 109476-10-06 06:56 G 41706626.60 41706626.79 41706626.98 0.0089 0.0016

Neptune 109477-01-02 10:32 G 41706714.75 41706714.94 41706715.13 0.0089 0.0006

Neptune 109477-03-31 14:08 G 41706802.90 41706803.09 41706803.28 0.0089 0.0004

Jupiter 109477-05-17 18:56 G 41706850.22 41706850.29 41706850.37 0.0522 0.0416

Neptune 109477-06-27 17:30 G 41706891.05 41706891.23 41706891.43 0.0089 0.0015

Jupiter 109477-08-15 01:10 G 41706939.43 41706939.55 41706939.66 0.0518 0.0223

Neptune 109477-09-23 21:06 G 41706979.21 41706979.38 41706979.58 0.0089 0.0025

Neptune 109477-12-21 00:42 G 41707067.36 41707067.53 41707067.72 0.0090 0.0035

Neptune 109478-03-19 04:18 G 41707155.52 41707155.68 41707155.86 0.0090 0.0045

Neptune 109478-06-15 08:08 G 41707243.69 41707243.84 41707244.00 0.0090 0.0055

Neptune 109478-09-11 11:44 G 41707331.86 41707331.99 41707332.13 0.0090 0.0065

Neptune 109478-12-08 15:06 G 41707420.04 41707420.13 41707420.25 0.0090 0.0076

Moon 109478-12-09 14:37 G 41707421.02 41707421.11 41707421.21 0.2678 0.2154

Earth 109478-12-09 16:18 G 41707421.13 41707421.18 41707421.24 0.2679 0.2504 *

Venus 109479-01-23 14:37 G 41707466.01 41707466.11 41707466.22 0.3675 0.0275

Neptune 109479-03-06 18:42 G 41707508.24 41707508.28 41707508.35 0.0090 0.0086

Venus 109480-08-11 02:51 G 41708031.48 41708031.62 41708031.77 0.3701 0.1268

Mars 109480-10-05 11:15 G 41708086.86 41708086.97 41708087.08 0.1742 0.0266

Mars 109481-11-05 02:37 G 41708482.46 41708482.61 41708482.77 0.1808 0.0734

Uranus 109482-01-20 19:39 G 41708559.26 41708559.32 41708559.42 0.0138 0.0123

Uranus 109482-04-19 03:20 G 41708647.51 41708647.64 41708647.77 0.0138 0.0096

Uranus 109482-07-16 10:32 G 41708735.78 41708735.94 41708736.10 0.0138 0.0070

Uranus 109482-10-12 17:44 G 41708824.07 41708824.24 41708824.43 0.0138 0.0044

Uranus 109483-01-09 01:10 G 41708912.36 41708912.55 41708912.74 0.0138 0.0017

Uranus 109483-04-07 08:37 G 41709000.67 41709000.86 41709001.05 0.0138 0.0010

Uranus 109483-07-04 15:49 G 41709088.98 41709089.16 41709089.35 0.0138 0.0037

Jupiter 109483-09-29 07:39 G 41709175.67 41709175.82 41709175.97 0.0506 0.0281

Uranus 109483-09-30 23:15 G 41709177.31 41709177.47 41709177.64 0.0138 0.0064

Uranus 109483-12-28 06:27 G 41709265.64 41709265.77 41709265.93 0.0137 0.0091

Uranus 109484-03-25 13:54 G 41709354.00 41709354.08 41709354.19 0.0137 0.0118

Venus 109484-08-08 06:27 G 41709489.68 41709489.77 41709489.86 0.3672 0.1928

Jupiter 109489-06-03 05:44 G 41711249.61 41711249.74 41711249.87 0.0519 0.0075

Earth 109489-06-04 17:15 G 41711251.11 41711251.22 41711251.33 0.2655 0.0064

Moon 109489-06-04 17:30 G 41711251.12 41711251.23 41711251.34 0.2660 0.0148 *

Venus 109490-02-21 22:03 G 41711513.40 41711513.42 41711513.44 0.3669 0.3565

Mars 109490-02-25 21:20 G 41711517.30 41711517.39 41711517.49 0.1750 0.1014

Saturn 109490-12-21 20:51 G 41711816.20 41711816.37 41711816.55 0.0264 0.0098

Saturn 109491-03-20 17:30 G 41711905.05 41711905.23 41711905.41 0.0264 0.0082

Mars 109491-03-27 22:18 G 41711912.28 41711912.43 41711912.58 0.1799 0.0839

Jupiter 109495-07-18 05:30 G 41713485.68 41713485.73 41713485.78 0.0506 0.0484

Jupiter 109495-10-16 14:51 G 41713576.00 41713576.12 41713576.24 0.0509 0.0374

Jupiter 109501-03-23 10:18 G 41715559.80 41715559.93 41715560.05 0.0520 0.0081

Mars 109501-06-24 14:08 G 41715653.01 41715653.09 41715653.17 0.1727 0.1241

Earth 109502-06-08 10:32 G 41716001.86 41716001.94 41716002.02 0.2653 0.1657

Moon 109502-06-08 11:15 G 41716001.89 41716001.97 41716002.05 0.2654 0.1734 *

Saturn 109505-07-24 00:56 G 41717143.44 41717143.54 41717143.64 0.0297 0.0185

Saturn 109505-10-20 13:25 G 41717231.93 41717232.06 41717232.20 0.0297 0.0012

Saturn 109506-01-17 01:54 G 41717320.48 41717320.58 41717320.69 0.0296 0.0171

Jupiter 109507-08-05 12:27 G 41717885.85 41717886.02 41717886.19 0.0508 0.0166

Mars 109510-11-15 00:42 G 41719083.42 41719083.53 41719083.64 0.1734 0.0540

Moon 109511-12-08 12:56 G 41719471.89 41719472.04 41719472.19 0.2678 0.0907

Earth 109511-12-08 14:51 G 41719471.96 41719472.12 41719472.27 0.2677 0.0569 *

Jupiter 109513-01-09 14:22 G 41719869.99 41719870.10 41719870.22 0.0521 0.0236

Jupiter 109513-04-08 20:08 G 41719959.26 41719959.34 41719959.42 0.0517 0.0394

Jupiter 109519-05-24 10:18 G 41722195.75 41722195.93 41722196.11 0.0508 0.0040

Mars 109520-04-06 11:01 G 41722513.85 41722513.96 41722514.08 0.1742 0.0189

Saturn 109520-05-10 18:13 G 41722548.12 41722548.26 41722548.40 0.0264 0.0167

Saturn 109520-08-07 14:37 G 41722636.92 41722637.11 41722637.30 0.0264 0.0012

Saturn 109520-11-04 11:01 G 41722725.84 41722725.96 41722726.10 0.0264 0.0194

Mars 109521-05-07 03:49 G 41722909.51 41722909.66 41722909.81 0.1809 0.0925

Earth 109522-06-04 04:46 G 41723302.60 41723302.70 41723302.79 0.2656 0.1211

Moon 109522-06-04 05:01 G 41723302.62 41723302.71 41723302.81 0.2661 0.1200 *

Venus 109524-08-01 04:18 G 41724091.61 41724091.68 41724091.75 0.3681 0.2641

Jupiter 109524-10-28 18:13 G 41724180.18 41724180.26 41724180.34 0.0521 0.0404

Uranus 109525-01-24 08:08 G 41724267.82 41724267.84 41724267.86 0.0140 0.0137

Jupiter 109525-01-26 00:13 G 41724269.40 41724269.51 41724269.63 0.0518 0.0234

Uranus 109525-04-22 11:44 G 41724355.92 41724355.99 41724356.06 0.0140 0.0117

Uranus 109525-07-19 15:06 G 41724444.04 41724444.13 41724444.24 0.0140 0.0097

Uranus 109525-10-15 18:42 G 41724532.18 41724532.28 41724532.40 0.0140 0.0077

Uranus 109526-01-11 22:18 G 41724620.31 41724620.43 41724620.56 0.0140 0.0057

Uranus 109526-04-10 01:54 G 41724708.45 41724708.58 41724708.71 0.0140 0.0037

Uranus 109526-07-07 05:30 G 41724796.60 41724796.73 41724796.86 0.0140 0.0017

Uranus 109526-10-03 09:06 G 41724884.74 41724884.88 41724885.01 0.0140 0.0004

Uranus 109526-12-30 12:27 G 41724972.89 41724973.02 41724973.16 0.0140 0.0023

Uranus 109527-03-28 16:03 G 41725061.04 41725061.17 41725061.30 0.0141 0.0043

Uranus 109527-06-24 19:39 G 41725149.20 41725149.32 41725149.44 0.0141 0.0063

Uranus 109527-09-20 23:01 G 41725237.35 41725237.46 41725237.57 0.0141 0.0083

Uranus 109527-12-18 02:22 G 41725325.52 41725325.60 41725325.70 0.0141 0.0103

Uranus 109528-03-15 05:58 G 41725413.69 41725413.75 41725413.81 0.0141 0.0122

Mars 109529-08-27 21:34 G 41725944.30 41725944.40 41725944.50 0.1750 0.0913

Venus 109530-02-14 20:22 G 41726115.25 41726115.35 41726115.45 0.3678 0.0906

Mars 109530-09-26 23:01 G 41726339.31 41726339.46 41726339.62 0.1798 0.0670

Jupiter 109531-03-12 07:39 G 41726505.67 41726505.82 41726505.98 0.0507 0.0250

Venus 109531-09-02 20:37 G 41726680.24 41726680.36 41726680.48 0.3697 0.2307

Saturn 109534-12-11 02:22 G 41727875.53 41727875.60 41727875.68 0.0296 0.0242

Saturn 109535-03-09 15:20 G 41727964.01 41727964.14 41727964.26 0.0296 0.0063

Saturn 109535-06-06 03:34 G 41728052.54 41728052.65 41728052.78 0.0296 0.0117

Earth 109535-06-06 22:03 G 41728053.31 41728053.42 41728053.53 0.2654 0.0399

Moon 109535-06-06 22:46 G 41728053.34 41728053.45 41728053.55 0.2652 0.0583 *

Venus 109535-08-31 12:13 G 41728138.91 41728139.01 41728139.11 0.3674 0.0808

Saturn 109535-09-02 16:03 G 41728141.15 41728141.17 41728141.19 0.0296 0.0291

Jupiter 109536-11-14 04:32 G 41728579.57 41728579.69 41728579.82 0.0519 0.0083

Venus 109537-03-19 05:01 G 41728704.61 41728704.71 41728704.80 0.3702 0.2923

Mars 109539-01-18 07:39 G 41729374.79 41729374.82 41729374.85 0.1758 0.1673

Mars 109540-12-23 14:08 G 41730080.02 41730080.09 41730080.16 0.1726 0.1336

Venus 109541-03-16 04:03 G 41730162.59 41730162.67 41730162.74 0.3671 0.2474

Jupiter 109542-12-29 04:03 G 41730815.62 41730815.67 41730815.74 0.0506 0.0474

Jupiter 109543-03-29 13:25 G 41730905.94 41730906.06 41730906.18 0.0509 0.0383

Moon 109548-06-08 15:20 G 41732804.07 41732804.14 41732804.21 0.2647 0.1933

Earth 109548-06-08 15:20 G 41732804.07 41732804.14 41732804.21 0.2653 0.1990 *

Jupiter 109548-09-02 09:06 G 41732889.75 41732889.88 41732890.01 0.0520 0.0072

Saturn 109549-09-27 18:27 G 41733280.16 41733280.27 41733280.38 0.0264 0.0211

Saturn 109549-12-25 14:37 G 41733368.93 41733369.11 41733369.30 0.0264 0.0033

Saturn 109550-03-24 11:01 G 41733457.82 41733457.96 41733458.13 0.0264 0.0150

Mars 109550-05-16 00:42 G 41733510.42 41733510.53 41733510.63 0.1734 0.0630

Pluto 109551-10-28 03:34 G 41734040.60 41734040.65 41734040.73 0.0085 0.0073

Pluto 109552-01-24 05:01 G 41734128.62 41734128.71 41734128.82 0.0084 0.0054

Pluto 109552-04-21 06:13 G 41734216.65 41734216.76 41734216.89 0.0084 0.0036

Pluto 109552-07-18 07:25 G 41734304.69 41734304.81 41734304.95 0.0084 0.0018

Pluto 109552-10-14 08:51 G 41734392.74 41734392.87 41734393.00 0.0084 0.0001

Pluto 109553-01-10 10:03 G 41734480.79 41734480.92 41734481.05 0.0084 0.0019

Pluto 109553-04-08 11:01 G 41734568.85 41734568.96 41734569.09 0.0084 0.0038

Pluto 109553-07-05 11:58 G 41734656.92 41734657.00 41734657.12 0.0084 0.0056

Pluto 109553-10-01 13:10 G 41734745.00 41734745.05 41734745.13 0.0084 0.0074

Jupiter 109555-01-15 10:46 G 41735215.78 41735215.95 41735216.12 0.0508 0.0169

Earth 109555-06-02 16:03 G 41735354.14 41735354.17 41735354.21 0.2657 0.2493

Moon 109555-06-02 16:46 G 41735354.15 41735354.20 41735354.24 0.2661 0.2406 *

Neptune 109555-08-28 08:22 G 41735440.82 41735440.85 41735440.92 0.0088 0.0082

Neptune 109555-11-24 09:49 G 41735528.86 41735528.91 41735528.99 0.0088 0.0075

Neptune 109556-02-20 11:15 G 41735616.90 41735616.97 41735617.07 0.0088 0.0068

Neptune 109556-05-18 12:42 G 41735704.94 41735705.03 41735705.13 0.0088 0.0061

Neptune 109556-08-14 13:54 G 41735792.99 41735793.08 41735793.20 0.0088 0.0055

Neptune 109556-11-10 15:20 G 41735881.04 41735881.14 41735881.26 0.0088 0.0048

Neptune 109557-02-06 16:46 G 41735969.09 41735969.20 41735969.32 0.0088 0.0041

Neptune 109557-05-05 18:13 G 41736057.14 41736057.26 41736057.38 0.0088 0.0034

Neptune 109557-08-01 19:25 G 41736145.19 41736145.31 41736145.44 0.0088 0.0028

Neptune 109557-10-28 20:51 G 41736233.24 41736233.37 41736233.50 0.0088 0.0021

Earth 109557-12-08 21:34 G 41736274.24 41736274.40 41736274.56 0.2678 0.0157

Moon 109557-12-08 21:49 G 41736274.25 41736274.41 41736274.57 0.2684 0.0088 *

Neptune 109558-01-24 22:18 G 41736321.29 41736321.43 41736321.56 0.0088 0.0014

Neptune 109558-04-22 23:30 G 41736409.35 41736409.48 41736409.62 0.0088 0.0008

Neptune 109558-07-20 00:56 G 41736497.40 41736497.54 41736497.67 0.0088 0.0001

Neptune 109558-10-16 02:08 G 41736585.46 41736585.59 41736585.73 0.0088 0.0006

Neptune 109559-01-12 03:34 G 41736673.52 41736673.65 41736673.78 0.0088 0.0013

Neptune 109559-04-10 04:46 G 41736761.57 41736761.70 41736761.83 0.0088 0.0019

Neptune 109559-07-07 06:13 G 41736849.63 41736849.76 41736849.89 0.0088 0.0026

Neptune 109559-10-03 07:25 G 41736937.69 41736937.81 41736937.94 0.0088 0.0033

Mars 109559-10-06 11:01 G 41736940.85 41736940.96 41736941.08 0.1742 0.0113

Neptune 109559-12-30 08:37 G 41737025.75 41737025.86 41737025.99 0.0088 0.0040

Neptune 109560-03-27 10:03 G 41737113.81 41737113.92 41737114.03 0.0088 0.0046

Jupiter 109560-06-21 13:25 G 41737199.95 41737200.06 41737200.18 0.0521 0.0227

Neptune 109560-06-23 11:15 G 41737201.87 41737201.97 41737202.08 0.0088 0.0053

Jupiter 109560-09-18 19:10 G 41737289.23 41737289.30 41737289.38 0.0518 0.0404

Neptune 109560-09-19 12:42 G 41737289.93 41737290.03 41737290.13 0.0088 0.0059

Mars 109560-11-05 04:46 G 41737336.57 41737336.70 41737336.83 0.1809 0.1110

Neptune 109560-12-16 13:54 G 41737378.00 41737378.08 41737378.17 0.0088 0.0066

Neptune 109561-03-14 14:51 G 41737466.06 41737466.12 41737466.21 0.0088 0.0073

Neptune 109561-06-10 16:18 G 41737554.14 41737554.18 41737554.25 0.0088 0.0079

Neptune 109561-09-06 17:30 G 41737642.22 41737642.23 41737642.27 0.0088 0.0086

Saturn 109564-07-26 16:03 G 41738696.06 41738696.17 41738696.29 0.0296 0.0128

Saturn 109564-10-23 04:46 G 41738784.57 41738784.70 41738784.83 0.0296 0.0051

Saturn 109565-01-19 17:01 G 41738873.13 41738873.21 41738873.30 0.0296 0.0226

Uranus 109565-11-14 21:20 G 41739172.39 41739172.39 41739172.39 0.0138 0.0138

Uranus 109566-02-11 04:18 G 41739260.58 41739260.68 41739260.80 0.0138 0.0112

Uranus 109566-05-10 11:44 G 41739348.85 41739348.99 41739349.14 0.0138 0.0085

Uranus 109566-08-06 18:56 G 41739437.13 41739437.29 41739437.47 0.0138 0.0059

Uranus 109566-11-03 02:08 G 41739525.42 41739525.59 41739525.78 0.0138 0.0033

Jupiter 109566-11-03 08:22 G 41739525.67 41739525.85 41739526.03 0.0508 0.0039 *

Uranus 109567-01-30 09:34 G 41739613.72 41739613.90 41739614.09 0.0138 0.0007

Uranus 109567-04-28 17:01 G 41739702.02 41739702.21 41739702.40 0.0138 0.0021

Uranus 109567-07-26 00:27 G 41739790.34 41739790.52 41739790.70 0.0138 0.0048

Uranus 109567-10-22 07:39 G 41739878.67 41739878.82 41739878.99 0.0138 0.0075

Uranus 109568-01-18 15:06 G 41739967.01 41739967.13 41739967.26 0.0137 0.0101

Uranus 109568-04-15 22:18 G 41740055.38 41740055.43 41740055.51 0.0137 0.0129

Earth 109568-06-04 09:34 G 41740104.79 41740104.90 41740105.00 0.2656 0.0880

Moon 109568-06-04 10:03 G 41740104.81 41740104.92 41740105.02 0.2651 0.0775 *

Mars 109569-02-25 21:20 G 41740371.29 41740371.39 41740371.49 0.1750 0.0832

Mars 109570-03-27 23:58 G 41740766.34 41740766.50 41740766.67 0.1799 0.0494

Jupiter 109572-04-09 17:30 G 41741510.15 41741510.23 41741510.32 0.0521 0.0386

Jupiter 109572-07-07 23:44 G 41741599.38 41741599.49 41741599.60 0.0518 0.0252

Mars 109578-07-19 07:39 G 41743801.77 41743801.82 41743801.87 0.1759 0.1584

Jupiter 109578-08-22 06:13 G 41743835.61 41743835.76 41743835.92 0.0507 0.0242

Saturn 109579-05-14 11:58 G 41744100.83 41744101.00 41744101.17 0.0264 0.0101

Saturn 109579-08-11 08:22 G 41744189.68 41744189.85 41744190.03 0.0264 0.0079

Saturn 109579-11-08 05:15 G 41744278.69 41744278.72 41744278.74 0.0264 0.0261

Mars 109580-06-23 13:54 G 41744507.02 41744507.08 41744507.15 0.1726 0.1419

Venus 109581-03-08 01:54 G 41744764.50 41744764.58 41744764.67 0.3680 0.2063

Moon 109581-06-07 02:37 G 41744855.51 41744855.61 41744855.72 0.2648 0.0692

Earth 109581-06-07 02:51 G 41744855.51 41744855.62 41744855.72 0.2654 0.0737 *

Jupiter 109584-04-26 03:34 G 41745909.53 41745909.65 41745909.78 0.0519 0.0091

Venus 109586-09-21 17:58 G 41746788.14 41746788.25 41746788.35 0.3677 0.0350

Venus 109588-04-08 22:32 G 41747353.29 41747353.44 41747353.59 0.3698 0.0730

Mars 109589-11-14 00:42 G 41747937.42 41747937.53 41747937.63 0.1734 0.0723

Jupiter 109590-06-10 04:03 G 41748145.59 41748145.67 41748145.75 0.0506 0.0447

Jupiter 109590-09-08 13:25 G 41748235.96 41748236.06 41748236.16 0.0509 0.0412

Venus 109592-04-06 09:49 G 41748811.81 41748811.91 41748812.00 0.3673 0.1369

Saturn 109593-12-13 17:44 G 41749428.14 41749428.24 41749428.35 0.0296 0.0184

Saturn 109594-03-12 06:27 G 41749516.64 41749516.77 41749516.90 0.0296 0.0005

Saturn 109594-06-08 18:56 G 41749605.18 41749605.29 41749605.39 0.0296 0.0172

Moon 109594-06-09 19:25 G 41749606.25 41749606.31 41749606.36 0.2651 0.2235

Earth 109594-06-09 20:08 G 41749606.29 41749606.34 41749606.39 0.2653 0.2322 *

Jupiter 109596-02-13 07:54 G 41750219.70 41750219.83 41750219.96 0.0520 0.0066

Venus 109597-10-21 01:25 G 41750835.51 41750835.56 41750835.62 0.3670 0.3018

Mars 109599-04-06 11:01 G 41751367.85 41751367.96 41751368.08 0.1742 0.0058

Mars 109600-05-06 05:30 G 41751763.61 41751763.73 41751763.85 0.1809 0.1269

Earth 109601-06-02 20:51 G 41752156.31 41752156.37 41752156.43 0.2657 0.2152

Moon 109601-06-02 21:20 G 41752156.32 41752156.39 41752156.45 0.2652 0.2138 *

Jupiter 109602-06-27 09:20 G 41752545.72 41752545.89 41752546.06 0.0508 0.0177

Earth 109603-12-10 04:18 G 41753076.53 41753076.68 41753076.83 0.2678 0.0886

Moon 109603-12-10 06:13 G 41753076.62 41753076.76 41753076.90 0.2679 0.1232 *

Jupiter 109607-12-02 12:13 G 41754529.89 41754530.01 41754530.12 0.0521 0.0225

Jupiter 109608-02-29 17:58 G 41754619.17 41754619.25 41754619.33 0.0518 0.0409

Mars 109608-08-26 21:20 G 41754798.29 41754798.39 41754798.50 0.1750 0.0738

Saturn 109608-09-30 12:27 G 41754832.87 41754833.02 41754833.18 0.0264 0.0143

Saturn 109608-12-28 08:51 G 41754921.69 41754921.87 41754922.06 0.0264 0.0038

Uranus 109609-02-13 15:49 G 41754969.11 41754969.16 41754969.21 0.0140 0.0130

Saturn 109609-03-27 05:30 G 41755010.63 41755010.73 41755010.84 0.0264 0.0220

Uranus 109609-05-12 19:10 G 41755057.23 41755057.30 41755057.39 0.0140 0.0110

Uranus 109609-08-08 22:46 G 41755145.36 41755145.45 41755145.56 0.0140 0.0090

Mars 109609-09-26 00:56 G 41755193.37 41755193.54 41755193.71 0.1799 0.0318

Uranus 109609-11-05 02:22 G 41755233.49 41755233.60 41755233.72 0.0140 0.0070

Uranus 109610-02-01 05:58 G 41755321.63 41755321.75 41755321.88 0.0140 0.0050

Uranus 109610-04-30 09:34 G 41755409.77 41755409.90 41755410.03 0.0140 0.0030

Uranus 109610-07-27 13:10 G 41755497.92 41755498.05 41755498.19 0.0140 0.0010

Uranus 109610-10-23 16:46 G 41755586.06 41755586.20 41755586.33 0.0140 0.0010

Uranus 109611-01-19 20:08 G 41755674.21 41755674.34 41755674.47 0.0140 0.0030

Uranus 109611-04-17 23:44 G 41755762.36 41755762.49 41755762.61 0.0141 0.0050

Uranus 109611-07-15 03:06 G 41755850.52 41755850.63 41755850.75 0.0141 0.0070

Uranus 109611-10-11 06:27 G 41755938.68 41755938.77 41755938.88 0.0141 0.0090

Uranus 109612-01-07 10:18 G 41756026.84 41756026.93 41756027.01 0.0141 0.0109

Uranus 109612-04-04 13:25 G 41756115.02 41756115.06 41756115.12 0.0141 0.0129

Jupiter 109614-04-15 06:42 G 41756855.60 41756855.78 41756855.96 0.0507 0.0035

Moon 109614-06-05 13:54 G 41756906.97 41756907.08 41756907.19 0.2649 0.0523

Earth 109614-06-05 14:08 G 41756906.99 41756907.09 41756907.20 0.2656 0.0541 *

Mars 109618-01-17 07:39 G 41758228.76 41758228.82 41758228.88 0.1758 0.1492

Jupiter 109619-09-20 16:18 G 41758840.10 41758840.18 41758840.27 0.0522 0.0382

Jupiter 109619-12-18 22:32 G 41758929.33 41758929.44 41758929.55 0.0519 0.0258

Mars 109619-12-23 13:54 G 41758934.03 41758934.08 41758934.14 0.1726 0.1511

Saturn 109623-05-02 19:10 G 41760160.23 41760160.30 41760160.38 0.0296 0.0242

Saturn 109623-07-30 07:54 G 41760248.70 41760248.83 41760248.96 0.0296 0.0064

Saturn 109623-10-26 20:22 G 41760337.22 41760337.35 41760337.47 0.0296 0.0113

Saturn 109624-01-23 08:22 G 41760425.83 41760425.85 41760425.89 0.0296 0.0288

Jupiter 109626-02-01 04:18 G 41761165.52 41761165.68 41761165.84 0.0507 0.0242

Moon 109627-06-08 06:56 G 41761657.69 41761657.79 41761657.89 0.2655 0.0888

Earth 109627-06-08 07:39 G 41761657.72 41761657.82 41761657.92 0.2654 0.1072 *

Mars 109629-05-15 00:27 G 41762364.42 41762364.52 41762364.63 0.1734 0.0811

Jupiter 109631-10-07 02:51 G 41763239.49 41763239.62 41763239.75 0.0519 0.0105

Venus 109632-03-29 07:25 G 41763413.76 41763413.81 41763413.86 0.3683 0.3236

Earth 109636-12-07 02:51 G 41765127.53 41765127.62 41765127.71 0.2676 0.2157

Moon 109636-12-07 04:32 G 41765127.59 41765127.69 41765127.80 0.2674 0.2004 *

Venus 109637-10-12 23:30 G 41765437.38 41765437.48 41765437.57 0.3679 0.1482

Jupiter 109637-11-20 02:22 G 41765475.51 41765475.60 41765475.68 0.0506 0.0443

Saturn 109638-02-17 10:03 G 41765564.81 41765564.92 41765565.03 0.0264 0.0210

Jupiter 109638-02-18 11:44 G 41765565.89 41765565.99 41765566.09 0.0509 0.0416

Saturn 109638-05-17 06:27 G 41765653.58 41765653.77 41765653.95 0.0264 0.0030

Saturn 109638-08-14 03:06 G 41765742.47 41765742.63 41765742.78 0.0264 0.0152

Mars 109638-10-05 11:01 G 41765794.85 41765794.96 41765795.08 0.1742 0.0090

Neptune 109639-10-26 03:06 G 41766180.59 41766180.63 41766180.70 0.0089 0.0085

Mars 109639-11-05 06:27 G 41766190.67 41766190.77 41766190.87 0.1809 0.1462

Neptune 109640-01-22 06:42 G 41766268.69 41766268.78 41766268.89 0.0089 0.0075

Neptune 109640-04-19 10:18 G 41766356.81 41766356.93 41766357.07 0.0089 0.0065

Earth 109640-06-10 00:42 G 41766408.53 41766408.53 41766408.53 0.2652 0.2651

Neptune 109640-07-16 13:54 G 41766444.94 41766445.08 41766445.24 0.0089 0.0055

Neptune 109640-10-12 17:30 G 41766533.07 41766533.23 41766533.40 0.0089 0.0045

Neptune 109641-01-08 21:06 G 41766621.20 41766621.38 41766621.56 0.0089 0.0035

Neptune 109641-04-07 00:42 G 41766709.34 41766709.53 41766709.71 0.0089 0.0025

Neptune 109641-07-04 04:18 G 41766797.49 41766797.68 41766797.87 0.0089 0.0015

Neptune 109641-09-30 07:54 G 41766885.63 41766885.83 41766886.02 0.0089 0.0005

Neptune 109641-12-27 11:30 G 41766973.78 41766973.98 41766974.17 0.0089 0.0006

Neptune 109642-03-25 14:51 G 41767061.94 41767062.12 41767062.31 0.0089 0.0016

Neptune 109642-06-21 18:27 G 41767150.09 41767150.27 41767150.46 0.0089 0.0026

Neptune 109642-09-17 22:03 G 41767238.25 41767238.42 41767238.60 0.0089 0.0036

Neptune 109642-12-15 01:25 G 41767326.41 41767326.56 41767326.74 0.0089 0.0047

Neptune 109643-03-13 05:01 G 41767414.58 41767414.71 41767414.88 0.0089 0.0057

Venus 109643-04-28 15:20 G 41767461.04 41767461.14 41767461.25 0.3676 0.0270

Neptune 109643-06-09 08:37 G 41767502.75 41767502.86 41767503.01 0.0089 0.0067

Jupiter 109643-07-26 06:42 G 41767549.65 41767549.78 41767549.91 0.0520 0.0061

Neptune 109643-09-05 12:27 G 41767590.93 41767591.02 41767591.13 0.0090 0.0077

Neptune 109643-12-02 16:03 G 41767679.14 41767679.17 41767679.23 0.0090 0.0087

Venus 109644-11-14 00:27 G 41768026.37 41768026.52 41768026.67 0.3699 0.0887

Moon 109647-06-04 01:10 G 41768958.47 41768958.55 41768958.62 0.2652 0.1902

Earth 109647-06-04 01:39 G 41768958.49 41768958.57 41768958.65 0.2657 0.1813 *

Mars 109648-02-25 21:20 G 41769225.29 41769225.39 41769225.50 0.1750 0.0645

Venus 109648-11-11 07:10 G 41769484.71 41769484.80 41769484.89 0.3672 0.1922

Mars 109649-03-27 01:54 G 41769620.41 41769620.58 41769620.75 0.1799 0.0144

Uranus 109649-12-05 05:30 G 41769873.67 41769873.73 41769873.82 0.0138 0.0127

Jupiter 109649-12-07 08:51 G 41769875.70 41769875.87 41769876.04 0.0508 0.0200

Earth 109649-12-10 11:15 G 41769878.84 41769878.97 41769879.09 0.2678 0.1624

Moon 109649-12-10 11:30 G 41769878.86 41769878.98 41769879.10 0.2672 0.1766 *

Uranus 109650-03-03 12:42 G 41769961.92 41769962.03 41769962.17 0.0138 0.0101

Uranus 109650-05-30 20:22 G 41770050.19 41770050.35 41770050.51 0.0138 0.0074

Uranus 109650-08-27 03:34 G 41770138.48 41770138.65 41770138.83 0.0138 0.0048

Uranus 109650-11-23 11:01 G 41770226.77 41770226.96 41770227.14 0.0138 0.0021

Uranus 109651-02-19 18:13 G 41770315.07 41770315.26 41770315.45 0.0138 0.0006

Uranus 109651-05-19 01:25 G 41770403.38 41770403.56 41770403.75 0.0138 0.0033

Uranus 109651-08-15 09:06 G 41770491.71 41770491.88 41770492.05 0.0138 0.0059

Uranus 109651-11-11 16:18 G 41770580.04 41770580.18 41770580.33 0.0138 0.0086

Uranus 109652-02-07 23:44 G 41770668.39 41770668.49 41770668.60 0.0137 0.0113

Saturn 109652-12-16 09:34 G 41770980.78 41770980.90 41770981.02 0.0296 0.0118

Saturn 109653-03-14 22:03 G 41771069.29 41771069.42 41771069.55 0.0296 0.0059

Saturn 109653-06-11 10:32 G 41771157.86 41771157.94 41771158.02 0.0296 0.0235

Venus 109654-05-27 23:01 G 41771508.44 41771508.46 41771508.48 0.3669 0.3563

Jupiter 109655-05-14 10:46 G 41771859.84 41771859.95 41771860.07 0.0521 0.0220

Jupiter 109655-08-11 16:46 G 41771949.12 41771949.20 41771949.27 0.0518 0.0412

Mars 109657-07-18 07:39 G 41772655.75 41772655.82 41772655.89 0.1758 0.1401

Mars 109658-08-16 21:20 G 41773050.34 41773050.39 41773050.44 0.1790 0.1703

Mars 109659-06-23 13:54 G 41773361.05 41773361.08 41773361.12 0.1726 0.1607

Moon 109660-06-05 18:27 G 41773709.16 41773709.27 41773709.38 0.2658 0.0306

Earth 109660-06-05 18:56 G 41773709.18 41773709.29 41773709.40 0.2655 0.0211 *

Jupiter 109661-09-25 05:01 G 41774185.53 41774185.71 41774185.90 0.0507 0.0032

Jupiter 109667-03-02 14:51 G 41776170.04 41776170.12 41776170.21 0.0522 0.0383

Jupiter 109667-05-30 21:06 G 41776259.27 41776259.38 41776259.49 0.0519 0.0258

Saturn 109667-07-07 10:46 G 41776296.89 41776296.95 41776297.02 0.0265 0.0249

Saturn 109667-10-04 07:10 G 41776385.62 41776385.80 41776385.98 0.0265 0.0069

Saturn 109668-01-01 03:34 G 41776474.49 41776474.65 41776474.83 0.0265 0.0113

Mars 109668-11-13 00:27 G 41776791.43 41776791.52 41776791.62 0.1733 0.0901

Moon 109673-06-08 12:13 G 41778459.92 41778460.01 41778460.10 0.2660 0.1416

Earth 109673-06-08 12:13 G 41778459.92 41778460.01 41778460.11 0.2654 0.1405 *

Jupiter 109673-07-14 02:22 G 41778495.45 41778495.60 41778495.76 0.0506 0.0240

Mars 109678-04-05 11:01 G 41780221.85 41780221.96 41780222.07 0.1741 0.0181

Jupiter 109679-03-19 01:25 G 41780569.44 41780569.56 41780569.69 0.0520 0.0105

Mars 109679-05-06 07:25 G 41780617.75 41780617.81 41780617.88 0.1810 0.1651

Saturn 109682-05-05 11:30 G 41781712.88 41781712.98 41781713.09 0.0296 0.0169

Saturn 109682-08-02 00:13 G 41781801.37 41781801.51 41781801.64 0.0296 0.0012

Saturn 109682-10-29 12:27 G 41781889.92 41781890.02 41781890.12 0.0296 0.0184

Moon 109682-12-08 09:20 G 41781929.76 41781929.89 41781930.03 0.2670 0.1450

Earth 109682-12-08 09:34 G 41781929.77 41781929.90 41781930.04 0.2677 0.1436 *

Jupiter 109685-05-01 23:58 G 41782805.42 41782805.50 41782805.59 0.0506 0.0447

Jupiter 109685-07-31 09:20 G 41782895.78 41782895.89 41782896.00 0.0509 0.0410

Mars 109687-08-26 21:20 G 41783652.28 41783652.39 41783652.50 0.1749 0.0556

Mars 109688-09-25 02:37 G 41784047.44 41784047.61 41784047.78 0.1800 0.0028

Venus 109688-11-03 05:01 G 41784086.64 41784086.71 41784086.78 0.3682 0.2645

Jupiter 109691-01-05 05:44 G 41784879.61 41784879.74 41784879.87 0.0520 0.0051

Uranus 109693-03-05 23:01 G 41785670.41 41785670.46 41785670.53 0.0140 0.0125

Uranus 109693-06-02 02:37 G 41785758.53 41785758.61 41785758.70 0.0140 0.0105

Moon 109693-06-04 05:58 G 41785760.66 41785760.75 41785760.83 0.2660 0.1513

Earth 109693-06-04 06:27 G 41785760.68 41785760.77 41785760.86 0.2656 0.1473 *

Uranus 109693-08-29 06:13 G 41785846.66 41785846.76 41785846.87 0.0140 0.0085

Uranus 109693-11-25 09:49 G 41785934.79 41785934.91 41785935.03 0.0140 0.0065

Uranus 109694-02-21 13:25 G 41786022.93 41786023.06 41786023.19 0.0140 0.0045

Venus 109694-05-19 21:06 G 41786110.28 41786110.38 41786110.48 0.3678 0.0901

Uranus 109694-05-20 17:01 G 41786111.08 41786111.21 41786111.34 0.0140 0.0025

Uranus 109694-08-16 20:37 G 41786199.22 41786199.36 41786199.49 0.0140 0.0007

Uranus 109694-11-12 23:58 G 41786287.37 41786287.50 41786287.64 0.0140 0.0015

Uranus 109695-02-09 03:34 G 41786375.52 41786375.65 41786375.78 0.0140 0.0035

Uranus 109695-05-08 06:56 G 41786463.67 41786463.79 41786463.92 0.0141 0.0055

Uranus 109695-08-04 10:32 G 41786551.83 41786551.94 41786552.05 0.0141 0.0075

Uranus 109695-10-31 13:54 G 41786639.99 41786640.08 41786640.18 0.0141 0.0094

Venus 109695-12-05 18:13 G 41786675.16 41786675.26 41786675.37 0.3696 0.2624

Moon 109695-12-11 16:18 G 41786681.08 41786681.18 41786681.28 0.2676 0.2043

Earth 109695-12-11 17:58 G 41786681.18 41786681.25 41786681.32 0.2679 0.2364 *

Uranus 109696-01-27 17:30 G 41786728.15 41786728.23 41786728.31 0.0141 0.0114

Uranus 109696-04-24 20:51 G 41786816.34 41786816.37 41786816.41 0.0141 0.0134

Mars 109697-01-16 07:39 G 41787082.74 41787082.82 41787082.89 0.1758 0.1309

Saturn 109697-02-20 05:01 G 41787117.55 41787117.71 41787117.87 0.0264 0.0133

Jupiter 109697-05-19 06:56 G 41787205.62 41787205.79 41787205.95 0.0508 0.0199

Saturn	109697-05-20 01:25 G	41787206.38	41787206.56	41787206.75	0.0264	0.0049
Saturn	109697-08-16 22:03 G	41787295.34	41787295.42	41787295.52	0.0264	0.0231
Mars	109698-02-14 22:32 G	41787477.35	41787477.44	41787477.53	0.1790	0.1508
Mars	109698-12-22 13:54 G	41787788.06	41787788.08	41787788.10	0.1726	0.1690
Venus	109699-12-03 12:56 G	41788133.94	41788134.04	41788134.14	0.3675	0.0809
Venus	109701-06-22 02:22 G	41788699.49	41788699.60	41788699.71	0.3701	0.2532
Jupiter	109702-10-25 09:34 G	41789189.78	41789189.90	41789190.02	0.0521	0.0217
Pluto	109702-12-18 06:56 G	41789243.76	41789243.79	41789243.84	0.0060	0.0058
Jupiter	109703-01-22 15:20 G	41789279.07	41789279.14	41789279.22	0.0518	0.0414
Pluto	109703-03-16 07:54 G	41789331.74	41789331.83	41789331.97	0.0060	0.0049
Pluto	109703-06-12 09:34 G	41789419.76	41789419.90	41789420.06	0.0060	0.0039
Pluto	109703-09-08 10:46 G	41789507.80	41789507.95	41789508.14	0.0060	0.0030
Pluto	109703-12-05 12:27 G	41789595.84	41789596.02	41789596.21	0.0060	0.0020
Pluto	109704-03-02 13:39 G	41789683.89	41789684.07	41789684.27	0.0060	0.0011
Pluto	109704-05-29 15:20 G	41789771.94	41789772.14	41789772.33	0.0060	0.0001
Pluto	109704-08-25 16:32 G	41789860.00	41789860.19	41789860.39	0.0060	0.0009
Pluto	109704-11-21 17:58 G	41789948.06	41789948.25	41789948.44	0.0060	0.0018
Pluto	109705-02-17 19:10 G	41790036.14	41790036.30	41790036.48	0.0060	0.0028
Pluto	109705-05-16 20:22 G	41790124.21	41790124.35	41790124.52	0.0060	0.0038
Venus	109705-06-19 04:46 G	41790157.62	41790157.70	41790157.77	0.3672	0.2475
Pluto	109705-08-12 22:03 G	41790212.31	41790212.42	41790212.54	0.0060	0.0048
Pluto	109705-11-08 23:15 G	41790300.43	41790300.47	41790300.54	0.0060	0.0058
Earth	109706-06-07 23:44 G	41790511.38	41790511.49	41790511.60	0.2655	0.0148
Moon	109706-06-07 23:58 G	41790511.39	41790511.50	41790511.61	0.2662	0.0107 *
Mars	109708-05-15 00:27 G	41791218.43	41791218.52	41791218.62	0.1734	0.0995
Jupiter	109709-03-08 04:03 G	41791515.49	41791515.67	41791515.85	0.0507	0.0017
Saturn	109711-09-23 13:25 G	41792444.98	41792445.06	41792445.15	0.0296	0.0222
Saturn	109711-12-21 02:08 G	41792533.46	41792533.59	41792533.72	0.0296	0.0045
Saturn	109712-03-18 14:22 G	41792621.99	41792622.10	41792622.22	0.0296	0.0133
Jupiter	109714-08-13 13:25 G	41793499.98	41793500.06	41793500.15	0.0522	0.0380

Jupiter 109714-11-10 19:39 G 41793589.21 41793589.32 41793589.43 0.0519 0.0259

Mars 109717-10-05 11:01 G 41794648.85 41794648.96 41794649.07 0.1741 0.0278

Mars 109718-11-05 08:08 G 41795044.83 41795044.84 41795044.85 0.1810 0.1804

Earth 109719-06-10 17:01 G 41795262.13 41795262.21 41795262.29 0.2653 0.1732

Moon 109719-06-10 17:44 G 41795262.17 41795262.24 41795262.31 0.2653 0.1910 *

Neptune 109720-02-27 06:27 G 41795523.76 41795523.77 41795523.80 0.0088 0.0087

Neptune 109720-05-25 07:54 G 41795611.78 41795611.83 41795611.89 0.0088 0.0080

Neptune 109720-08-21 09:20 G 41795699.82 41795699.89 41795699.97 0.0088 0.0073

Neptune 109720-11-17 10:46 G 41795787.86 41795787.95 41795788.04 0.0088 0.0066

Jupiter 109720-12-25 00:42 G 41795825.37 41795825.53 41795825.69 0.0506 0.0237

Neptune 109721-02-13 11:44 G 41795875.91 41795875.99 41795876.10 0.0088 0.0060

Neptune 109721-05-12 13:10 G 41795963.96 41795964.05 41795964.17 0.0088 0.0053

Neptune 109721-08-08 14:37 G 41796052.00 41796052.11 41796052.23 0.0088 0.0046

Neptune 109721-11-04 16:03 G 41796140.05 41796140.17 41796140.29 0.0088 0.0039

Neptune 109722-01-31 17:15 G 41796228.11 41796228.22 41796228.35 0.0088 0.0033

Neptune 109722-04-29 18:42 G 41796316.16 41796316.28 41796316.41 0.0088 0.0026

Neptune 109722-07-26 20:08 G 41796404.21 41796404.34 41796404.47 0.0088 0.0019

Neptune 109722-10-22 21:20 G 41796492.26 41796492.39 41796492.53 0.0088 0.0013

Neptune 109723-01-18 22:46 G 41796580.32 41796580.45 41796580.59 0.0088 0.0006

Neptune 109723-04-17 00:13 G 41796668.37 41796668.51 41796668.64 0.0088 0.0002

Neptune 109723-07-14 01:25 G 41796756.43 41796756.56 41796756.70 0.0088 0.0008

Neptune 109723-10-10 02:51 G 41796844.49 41796844.62 41796844.75 0.0088 0.0014

Neptune 109724-01-06 04:03 G 41796932.54 41796932.67 41796932.80 0.0088 0.0021

Neptune 109724-04-03 05:15 G 41797020.60 41797020.72 41797020.85 0.0088 0.0028

Neptune 109724-06-30 06:42 G 41797108.66 41797108.78 41797108.90 0.0088 0.0034

Neptune 109724-09-26 07:54 G 41797196.72 41797196.83 41797196.95 0.0088 0.0041

Neptune 109724-12-23 09:06 G 41797284.78 41797284.88 41797285.00 0.0088 0.0048

Neptune 109725-03-21 10:32 G 41797372.84 41797372.94 41797373.05 0.0088 0.0054

Neptune 109725-06-17 11:44 G 41797460.90 41797460.99 41797461.09 0.0088 0.0061

Neptune 109725-09-13 13:10 G 41797548.97 41797549.05 41797549.14 0.0088 0.0067

Neptune 109725-12-10 14:22 G 41797637.04 41797637.10 41797637.18 0.0088 0.0074

Neptune 109726-03-08 15:34 G 41797725.11 41797725.15 41797725.21 0.0088 0.0081

Neptune 109726-06-04 17:01 G 41797813.20 41797813.21 41797813.23 0.0088 0.0087

Saturn 109726-07-11 05:58 G 41797849.61 41797849.75 41797849.90 0.0265 0.0170

Jupiter 109726-08-29 23:44 G 41797899.36 41797899.49 41797899.62 0.0520 0.0100

Saturn 109726-10-08 02:37 G 41797938.42 41797938.61 41797938.80 0.0265 0.0012

Saturn 109727-01-04 23:15 G 41798027.34 41798027.47 41798027.60 0.0265 0.0194

Mars 109727-02-25 21:20 G 41798079.28 41798079.39 41798079.50 0.1749 0.0467

Mars 109728-03-27 03:34 G 41798474.48 41798474.65 41798474.82 0.1800 0.0220

Moon 109728-12-09 14:37 G 41798731.96 41798732.11 41798732.26 0.2678 0.0876

Earth 109728-12-09 16:32 G 41798732.03 41798732.19 41798732.34 0.2677 0.0720 *

Jupiter 109732-10-12 22:03 G 41800135.34 41800135.42 41800135.51 0.0505 0.0446

Jupiter 109733-01-11 07:10 G 41800225.70 41800225.80 41800225.91 0.0508 0.0408

Uranus 109733-12-26 13:39 G 41800574.99 41800575.07 41800575.18 0.0138 0.0118

Uranus 109734-03-24 20:51 G 41800663.25 41800663.37 41800663.53 0.0138 0.0092

Uranus 109734-06-21 04:32 G 41800751.52 41800751.69 41800751.86 0.0138 0.0064

Uranus 109734-09-17 11:44 G 41800839.81 41800839.99 41800840.18 0.0138 0.0038

Uranus 109734-12-14 19:10 G 41800928.11 41800928.30 41800928.49 0.0138 0.0011

Uranus 109735-03-13 02:22 G 41801016.42 41801016.60 41801016.79 0.0138 0.0016

Uranus 109735-06-09 09:34 G 41801104.73 41801104.90 41801105.09 0.0138 0.0043

Uranus 109735-09-05 17:15 G 41801193.06 41801193.22 41801193.38 0.0138 0.0069

Uranus 109735-12-03 00:42 G 41801281.39 41801281.53 41801281.66 0.0138 0.0096

Uranus 109736-02-29 07:54 G 41801369.75 41801369.83 41801369.92 0.0138 0.0123

Mars 109736-07-18 07:39 G 41801509.74 41801509.82 41801509.90 0.1758 0.1217

Mars 109737-08-16 23:15 G 41801904.36 41801904.47 41801904.59 0.1790 0.1341

Jupiter 109738-06-18 04:03 G 41802209.54 41802209.67 41802209.80 0.0521 0.0056

Earth 109739-06-06 11:15 G 41802562.87 41802562.97 41802563.07 0.2656 0.1141

Moon 109739-06-06 11:30 G 41802562.89 41802562.98 41802563.08 0.2662 0.1060 *

Saturn 109741-02-09 16:03 G 41803177.11 41803177.17 41803177.22 0.0296 0.0265

Saturn 109741-05-09 04:32 G 41803265.57 41803265.69 41803265.82 0.0296 0.0087

Saturn 109741-08-05 17:01 G 41803354.09 41803354.21 41803354.34 0.0296 0.0089

Saturn 109741-11-02 05:15 G 41803442.67 41803442.72 41803442.78 0.0296 0.0264

Jupiter 109744-10-30 04:18 G 41804535.51 41804535.68 41804535.84 0.0508 0.0189

Venus 109745-06-11 02:37 G 41804759.53 41804759.61 41804759.70 0.3681 0.2058

Mars 109747-11-14 00:27 G 41805645.43 41805645.52 41805645.61 0.1733 0.1083

Jupiter 109750-04-06 08:22 G 41806519.73 41806519.85 41806519.97 0.0521 0.0213

Jupiter 109750-07-04 14:08 G 41806609.02 41806609.09 41806609.17 0.0518 0.0419

Venus 109750-12-25 18:42 G 41806783.17 41806783.28 41806783.38 0.3677 0.0331

Earth 109752-06-08 04:32 G 41807313.58 41807313.69 41807313.80 0.2655 0.0474

Moon 109752-06-08 05:15 G 41807313.61 41807313.72 41807313.82 0.2654 0.0594 *

Venus 109752-07-12 20:08 G 41807348.19 41807348.34 41807348.48 0.3697 0.1064

Saturn 109755-11-28 04:18 G 41808581.60 41808581.68 41808581.78 0.0265 0.0229

Saturn 109756-02-25 00:56 G 41808670.36 41808670.54 41808670.72 0.0265 0.0049

Saturn 109756-05-23 21:20 G 41808759.24 41808759.39 41808759.56 0.0265 0.0134

Venus 109756-07-10 10:32 G 41808806.84 41808806.94 41808807.03 0.3674 0.1368

Jupiter 109756-08-18 01:39 G 41808845.39 41808845.57 41808845.76 0.0507 0.0025

Mars 109757-04-05 11:01 G 41809075.84 41809075.96 41809076.07 0.1741 0.0368

Jupiter 109762-01-23 11:58 G 41810829.92 41810830.00 41810830.09 0.0522 0.0381

Venus 109762-01-24 02:22 G 41810830.54 41810830.60 41810830.65 0.3671 0.3025

Jupiter 109762-04-22 18:13 G 41810919.15 41810919.26 41810919.37 0.0519 0.0258

Earth 109765-06-10 21:49 G 41812064.34 41812064.41 41812064.48 0.2653 0.2066

Moon 109765-06-10 22:03 G 41812064.35 41812064.42 41812064.48 0.2646 0.2079 *

Mars 109766-08-26 21:20 G 41812506.28 41812506.39 41812506.50 0.1749 0.0365

Mars 109767-09-26 04:32 G 41812901.52 41812901.69 41812901.85 0.1800 0.0389

Jupiter 109768-06-05 23:15 G 41813155.31 41813155.47 41813155.63 0.0506 0.0229

Saturn 109770-09-26 06:27 G 41813997.66 41813997.77 41813997.89 0.0296 0.0139

Saturn 109770-12-23 19:10 G 41814086.17 41814086.30 41814086.43 0.0296 0.0039

Saturn 109771-03-22 07:25 G 41814174.72 41814174.81 41814174.90 0.0296 0.0214

Earth 109772-06-03 22:32 G 41814614.40 41814614.44 41814614.48 0.2657 0.2428

Moon 109772-06-03 23:01 G 41814614.41 41814614.46 41814614.52 0.2661 0.2281 *

Jupiter 109774-02-08 22:18 G 41815229.30 41815229.43 41815229.56 0.0520 0.0100

Moon 109774-12-10 23:01 G 41815534.30 41815534.46 41815534.62 0.2684 0.0037

Earth 109774-12-10 23:15 G 41815534.31 41815534.47 41815534.63 0.2677 0.0024 *

Mars 109776-01-17 07:39 G 41815936.73 41815936.82 41815936.90 0.1757 0.1125

Uranus 109776-12-29 03:06 G 41816283.62 41816283.63 41816283.66 0.0140 0.0138

Mars 109777-02-14 23:58 G 41816331.38 41816331.50 41816331.63 0.1791 0.1181

Uranus 109777-03-27 06:42 G 41816371.72 41816371.78 41816371.86 0.0140 0.0118

Uranus 109777-06-23 10:18 G 41816459.84 41816459.93 41816460.03 0.0140 0.0098

Uranus 109777-09-19 13:54 G 41816547.97 41816548.08 41816548.19 0.0140 0.0078

Uranus 109777-12-16 17:30 G 41816636.11 41816636.23 41816636.35 0.0140 0.0058

Uranus 109778-03-14 21:06 G 41816724.25 41816724.38 41816724.51 0.0140 0.0038

Uranus 109778-06-11 00:42 G 41816812.39 41816812.53 41816812.66 0.0140 0.0019

Uranus 109778-09-07 04:03 G 41816900.54 41816900.67 41816900.81 0.0140 0.0003

Uranus 109778-12-04 07:39 G 41816988.69 41816988.82 41816988.95 0.0140 0.0022

Uranus 109779-03-02 11:01 G 41817076.84 41817076.96 41817077.09 0.0140 0.0042

Uranus 109779-05-29 14:37 G 41817164.99 41817165.11 41817165.23 0.0140 0.0061

Uranus 109779-08-25 17:58 G 41817253.15 41817253.25 41817253.36 0.0141 0.0081

Uranus 109779-11-21 21:34 G 41817341.31 41817341.40 41817341.49 0.0141 0.0101

Uranus 109780-02-18 00:56 G 41817429.48 41817429.54 41817429.61 0.0141 0.0120

Jupiter 109780-03-24 20:08 G 41817465.26 41817465.34 41817465.43 0.0505 0.0446

Uranus 109780-05-16 04:32 G 41817517.68 41817517.69 41817517.70 0.0141 0.0140

Jupiter 109780-06-23 05:15 G 41817555.61 41817555.72 41817555.83 0.0508 0.0406

Saturn 109785-04-16 05:30 G 41819313.73 41819313.73 41819313.76 0.0265 0.0265

Earth 109785-06-06 16:03 G 41819365.06 41819365.17 41819365.27 0.2656 0.0806

Moon 109785-06-06 16:32 G 41819365.09 41819365.19 41819365.30 0.2654 0.0753 *

Saturn 109785-07-14 02:08 G 41819402.42 41819402.59 41819402.77 0.0265 0.0084

Saturn 109785-10-10 22:46 G 41819491.27 41819491.45 41819491.62 0.0265 0.0098

Jupiter 109785-11-28 02:08 G 41819539.46 41819539.59 41819539.72 0.0521 0.0067

Mars 109787-05-15 00:27 G 41820072.44 41820072.52 41820072.60 0.1733 0.1172

Jupiter 109792-04-11 02:08 G 41821865.42 41821865.59 41821865.76 0.0507 0.0186

Venus 109796-07-02 08:08 G 41823408.79 41823408.84 41823408.89 0.3683 0.3230

Mars 109796-10-04 11:01 G 41823502.85 41823502.96 41823503.07 0.1741 0.0462

Jupiter 109797-09-16 06:27 G 41823849.65 41823849.77 41823849.89 0.0522 0.0224

Jupiter 109797-12-14 12:27 G 41823938.94 41823939.02 41823939.09 0.0518 0.0410

Moon 109798-06-09 09:06 G 41824115.78 41824115.88 41824115.99 0.2647 0.0860

Earth 109798-06-09 09:20 G 41824115.79 41824115.89 41824115.99 0.2654 0.0807 *

Pluto 109798-09-10 15:34 G 41824209.10 41824209.15 41824209.23 0.0085 0.0074

Pluto 109798-12-07 17:01 G 41824297.11 41824297.21 41824297.31 0.0085 0.0055

Pluto 109799-03-05 18:13 G 41824385.15 41824385.26 41824385.38 0.0084 0.0036

Pluto 109799-06-01 19:25 G 41824473.19 41824473.31 41824473.44 0.0084 0.0018

Pluto 109799-08-28 20:37 G 41824561.23 41824561.36 41824561.50 0.0084 0.0003

Pluto 109799-11-24 21:49 G 41824649.29 41824649.41 41824649.54 0.0084 0.0018

Saturn 109800-02-13 09:34 G 41824729.80 41824729.90 41824730.01 0.0295 0.0174

Pluto 109800-02-20 23:01 G 41824737.35 41824737.46 41824737.58 0.0084 0.0036

Saturn 109800-05-12 22:18 G 41824818.29 41824818.43 41824818.56 0.0295 0.0010

Pluto 109800-05-19 23:58 G 41824825.41 41824825.50 41824825.61 0.0084 0.0055

Saturn 109800-08-09 10:32 G 41824906.84 41824906.94 41824907.05 0.0295 0.0178

Pluto 109800-08-16 01:25 G 41824913.50 41824913.56 41824913.63 0.0084 0.0072

Venus 109802-01-17 00:13 G 41825432.42 41825432.51 41825432.61 0.3680 0.1475

Jupiter 109804-01-29 23:01 G 41826175.28 41826175.46 41826175.64 0.0507 0.0034

Neptune 109804-07-24 00:13 G 41826351.46 41826351.51 41826351.59 0.0089 0.0084

Neptune 109804-10-20 03:49 G 41826439.57 41826439.66 41826439.78 0.0089 0.0074

Neptune 109805-01-16 07:25 G 41826527.68 41826527.81 41826527.95 0.0089 0.0064

Neptune 109805-04-14 11:01 G 41826615.81 41826615.96 41826616.12 0.0089 0.0054

Neptune 109805-07-11 14:37 G 41826703.94 41826704.11 41826704.28 0.0089 0.0044

Neptune 109805-10-07 18:13 G 41826792.08 41826792.26 41826792.44 0.0089 0.0034

Neptune 109806-01-03 21:49 G 41826880.22 41826880.41 41826880.59 0.0089 0.0024

Mars 109806-02-25 21:20 G 41826933.27 41826933.39 41826933.50 0.1749 0.0288

Neptune 109806-04-02 01:10 G 41826968.37 41826968.55 41826968.75 0.0089 0.0014

Neptune 109806-06-29 04:46 G 41827056.51 41827056.70 41827056.90 0.0089 0.0004

Neptune 109806-09-25 08:22 G 41827144.66   41827144.85   41827145.04 0.0089 0.0007

Neptune 109806-12-22 11:58 G 41827232.81   41827233.00   41827233.19 0.0089 0.0017

Neptune 109807-03-20 15:34 G 41827320.97   41827321.15   41827321.34 0.0089 0.0027

Mars   109807-03-28 05:15 G 41827328.56   41827328.72   41827328.89 0.1801 0.0568

Neptune 109807-06-16 19:10 G 41827409.13   41827409.30   41827409.48 0.0089 0.0037

Venus   109807-08-02 16:18 G 41827456.07   41827456.18   41827456.28 0.3677 0.0275

Neptune 109807-09-12 22:32 G 41827497.29   41827497.44   41827497.62 0.0089 0.0047

Neptune 109807-12-10 02:08 G 41827585.46   41827585.59   41827585.75 0.0089 0.0058

Neptune 109808-03-07 05:44 G 41827673.63   41827673.74   41827673.88 0.0089 0.0068

Neptune 109808-06-03 09:20 G 41827761.81   41827761.89   41827762.00 0.0089 0.0078

Neptune 109808-08-30 13:10 G 41827850.03   41827850.05   41827850.09 0.0089 0.0088

Venus   109809-02-17 22:03 G 41828021.26   41828021.42   41828021.57 0.3698 0.0538

Jupiter 109809-07-06 10:32 G 41828159.86   41828159.94   41828160.03 0.0522 0.0382

Jupiter 109809-10-03 16:46 G 41828249.09   41828249.20   41828249.31 0.0519 0.0258

Moon   109811-06-13 01:54 G 41828866.52   41828866.58   41828866.64 0.2651 0.2229

Earth   109811-06-13 02:37 G 41828866.56   41828866.61   41828866.65 0.2653 0.2399 *

Venus   109813-02-15 07:54 G 41829479.75   41829479.83   41829479.92 0.3673 0.1925

Saturn   109814-12-02 00:56 G 41830134.39   41830134.54   41830134.70 0.0265 0.0139

Saturn   109815-02-28 21:34 G 41830223.21   41830223.40   41830223.58 0.0265 0.0042

Saturn   109815-05-28 18:13 G 41830312.16   41830312.26   41830312.36 0.0265 0.0225

Mars   109815-07-19 07:25 G 41830363.72   41830363.81   41830363.91 0.1757 0.1036

Jupiter 109815-11-17 20:37 G 41830485.20   41830485.36   41830485.52 0.0506 0.0240

Mars   109816-08-17 01:10 G 41830758.41   41830758.55   41830758.69 0.1791 0.0992

Uranus   109817-10-20 14:22 G 41831188.07   41831188.10   41831188.15 0.0138 0.0135

Uranus   109818-01-16 21:34 G 41831276.30   41831276.40   41831276.53 0.0138 0.0108

Uranus   109818-04-15 04:46 G 41831364.57   41831364.70   41831364.87 0.0138 0.0082

Earth   109818-06-06 03:20 G 41831416.57   41831416.64   41831416.70 0.2657 0.2090

Moon   109818-06-06 03:49 G 41831416.59   41831416.66   41831416.73 0.2652 0.1974 *

Uranus   109818-07-12 12:13 G 41831452.85   41831453.01   41831453.19 0.0138 0.0055

Venus   109818-08-31 23:44 G 41831503.47   41831503.49   41831503.51 0.3670 0.3565

Uranus 109818-10-08 19:39 G 41831541.14 41831541.32 41831541.51 0.0138 0.0029

Uranus 109819-01-05 03:06 G 41831629.44 41831629.63 41831629.82 0.0138 0.0003

Uranus 109819-04-03 10:18 G 41831717.75 41831717.93 41831718.12 0.0138 0.0025

Uranus 109819-06-30 17:30 G 41831806.06 41831806.23 41831806.42 0.0138 0.0052

Uranus 109819-09-27 00:56 G 41831894.39 41831894.54 41831894.70 0.0138 0.0079

Uranus 109819-12-24 08:37 G 41831982.74 41831982.86 41831982.98 0.0138 0.0105

Uranus 109820-03-21 15:49 G 41832071.12 41832071.16 41832071.22 0.0138 0.0132

Earth 109820-12-12 05:58 G 41832336.60 41832336.75 41832336.91 0.2678 0.0753

Moon 109820-12-12 07:54 G 41832336.68 41832336.83 41832336.98 0.2679 0.0911 *

Jupiter 109821-07-22 20:37 G 41832559.24 41832559.36 41832559.49 0.0520 0.0098

Mars 109826-11-14 00:27 G 41834499.44 41834499.52 41834499.60 0.1733 0.1270

Jupiter 109827-09-05 18:13 G 41834795.18 41834795.26 41834795.34 0.0505 0.0445

Jupiter 109827-12-05 03:20 G 41834885.54 41834885.64 41834885.75 0.0509 0.0409

Saturn 109829-07-03 11:30 G 41835461.90 41835461.98 41835462.07 0.0296 0.0227

Saturn 109829-09-30 00:13 G 41835550.38 41835550.51 41835550.64 0.0296 0.0050

Saturn 109829-12-27 12:42 G 41835638.91 41835639.03 41835639.14 0.0296 0.0127

Moon 109831-06-08 20:22 G 41836167.25 41836167.35 41836167.46 0.2650 0.0537

Earth 109831-06-08 20:51 G 41836167.26 41836167.37 41836167.47 0.2656 0.0475 *

Jupiter 109833-05-11 00:42 G 41836869.40 41836869.53 41836869.66 0.0521 0.0066

Mars 109836-04-05 11:01 G 41837929.85 41837929.96 41837930.06 0.1741 0.0554

Jupiter 109839-09-22 23:58 G 41839195.33 41839195.50 41839195.67 0.0507 0.0183

Saturn 109844-04-20 02:22 G 41840866.46 41840866.60 41840866.74 0.0265 0.0173

Moon 109844-06-10 13:25 G 41840917.96 41840918.06 41840918.16 0.2653 0.1025

Earth 109844-06-10 14:08 G 41840917.99 41840918.09 41840918.18 0.2654 0.1146 *

Saturn 109844-07-17 23:01 G 41840955.27 41840955.46 41840955.64 0.0265 0.0010

Saturn 109844-10-14 19:25 G 41841044.19 41841044.31 41841044.45 0.0265 0.0192

Jupiter 109845-02-27 04:18 G 41841179.57 41841179.68 41841179.80 0.0522 0.0236

Jupiter 109845-05-27 10:18 G 41841268.85 41841268.93 41841269.01 0.0519 0.0399

Mars 109845-08-26 21:06 G 41841360.27 41841360.38 41841360.50 0.1749 0.0201

Mars 109846-09-26 06:13 G 41841755.61 41841755.76 41841755.92 0.1801 0.0748

Jupiter 109851-07-11 20:51 G 41843505.19 41843505.37 41843505.55 0.0506 0.0036

Venus 109853-02-07 05:44 G 41844081.67 41844081.74 41844081.81 0.3683 0.2647

Earth 109853-12-10 04:46 G 41844387.61 41844387.70 41844387.78 0.2676 0.2277

Moon 109853-12-10 06:27 G 41844387.66 41844387.77 41844387.87 0.2675 0.1989 *

Mars 109855-01-17 07:39 G 41844790.72 41844790.82 41844790.91 0.1757 0.0941

Mars 109856-02-16 02:08 G 41845185.44 41845185.59 41845185.74 0.1791 0.0816

Jupiter 109856-12-16 08:22 G 41845489.77 41845489.85 41845489.94 0.0523 0.0397

Jupiter 109857-03-15 14:37 G 41845579.00 41845579.11 41845579.23 0.0519 0.0245

Venus 109858-08-23 21:49 G 41846105.31 41846105.41 41846105.51 0.3679 0.0898

Saturn 109858-11-20 15:06 G 41846194.07 41846194.13 41846194.19 0.0295 0.0257

Saturn 109859-02-17 03:49 G 41846282.53 41846282.66 41846282.78 0.0295 0.0080

Saturn 109859-05-16 16:03 G 41846371.05 41846371.17 41846371.30 0.0295 0.0097

Saturn 109859-08-13 04:18 G 41846459.64 41846459.68 41846459.74 0.0295 0.0272

Venus 109860-03-10 15:49 G 41846670.07 41846670.16 41846670.25 0.3695 0.2952

Uranus 109861-01-19 10:32 G 41846984.91 41846984.94 41846985.00 0.0140 0.0132

Uranus 109861-04-17 14:08 G 41847073.02 41847073.09 41847073.18 0.0140 0.0112

Uranus 109861-07-14 17:44 G 41847161.15 41847161.24 41847161.35 0.0140 0.0092

Uranus 109861-10-10 21:20 G 41847249.28 41847249.39 41847249.51 0.0140 0.0072

Uranus 109862-01-07 00:56 G 41847337.42 41847337.54 41847337.67 0.0140 0.0052

Uranus 109862-04-05 04:32 G 41847425.56 41847425.69 41847425.82 0.0140 0.0032

Uranus 109862-07-02 08:08 G 41847513.70 41847513.84 41847513.97 0.0140 0.0012

Uranus 109862-09-28 11:30 G 41847601.85 41847601.98 41847602.12 0.0140 0.0009

Uranus 109862-12-25 15:06 G 41847690.00 41847690.13 41847690.26 0.0140 0.0028

Uranus 109863-03-23 18:27 G 41847778.15 41847778.27 41847778.40 0.0140 0.0048

Jupiter 109863-04-29 17:30 G 41847815.08 41847815.23 41847815.39 0.0506 0.0255

Uranus 109863-06-19 22:03 G 41847866.30 41847866.42 41847866.54 0.0140 0.0067

Uranus 109863-09-16 01:25 G 41847954.46 41847954.56 41847954.67 0.0140 0.0087

Uranus 109863-12-13 04:46 G 41848042.63 41848042.70 41848042.80 0.0141 0.0107

Venus 109864-03-08 13:39 G 41848128.97 41848129.07 41848129.17 0.3676 0.0798

Uranus 109864-03-10 08:22 G 41848130.80 41848130.85 41848130.91 0.0141 0.0126

Moon 109864-06-06 07:39 G 41848218.75 41848218.82 41848218.90 0.2652 0.1863

Earth 109864-06-06 08:08 G 41848218.76 41848218.84 41848218.92 0.2657 0.1742 *

Mars 109864-06-08 17:30 G 41848221.21 41848221.23 41848221.26 0.1765 0.1717

Venus 109865-09-24 23:44 G 41848694.36 41848694.49 41848694.61 0.3700 0.2103

Mars 109866-05-15 00:27 G 41848926.45 41848926.52 41848926.59 0.1733 0.1357

Earth 109866-12-13 12:56 G 41849138.90 41849139.04 41849139.17 0.2678 0.1488

Moon 109866-12-13 13:25 G 41849138.93 41849139.06 41849139.19 0.2671 0.1587 *

Jupiter 109869-01-01 19:10 G 41849889.17 41849889.30 41849889.42 0.0520 0.0093

Venus 109869-09-22 05:30 G 41850152.66 41850152.73 41850152.81 0.3672 0.2468

Saturn 109873-09-07 01:39 G 41851598.48 41851598.57 41851598.67 0.0265 0.0225

Saturn 109873-12-04 22:03 G 41851687.24 41851687.42 41851687.61 0.0265 0.0045

Saturn 109874-03-03 18:42 G 41851776.12 41851776.28 41851776.44 0.0265 0.0138

Jupiter 109875-02-15 15:20 G 41852125.07 41852125.14 41852125.21 0.0505 0.0459

Jupiter 109875-05-17 00:27 G 41852215.40 41852215.52 41852215.63 0.0509 0.0394

Mars 109875-10-05 10:46 G 41852356.85 41852356.95 41852357.06 0.1741 0.0642

Moon 109877-06-09 00:42 G 41852969.43 41852969.53 41852969.64 0.2657 0.0212

Earth 109877-06-09 01:25 G 41852969.46 41852969.56 41852969.67 0.2655 0.0158 *

Jupiter 109880-10-20 23:01 G 41854199.33 41854199.46 41854199.59 0.0520 0.0071

Neptune 109884-11-24 05:30 G 41855694.72 41855694.73 41855694.77 0.0088 0.0086

Neptune 109885-02-20 06:56 G 41855782.74 41855782.79 41855782.86 0.0088 0.0079

Mars 109885-02-24 21:20 G 41855787.27 41855787.39 41855787.50 0.1749 0.0101

Neptune 109885-05-19 08:22 G 41855870.78 41855870.85 41855870.93 0.0088 0.0072

Neptune 109885-08-15 09:49 G 41855958.82 41855958.91 41855959.00 0.0088 0.0065

Neptune 109885-11-11 11:15 G 41856046.87 41856046.97 41856047.07 0.0088 0.0058

Neptune 109886-02-07 12:27 G 41856134.92 41856135.02 41856135.14 0.0088 0.0052

Mars 109886-03-27 07:10 G 41856182.65 41856182.80 41856182.94 0.1801 0.0925

Neptune 109886-05-06 13:54 G 41856222.97 41856223.08 41856223.20 0.0088 0.0045

Neptune 109886-08-02 15:20 G 41856311.02 41856311.14 41856311.26 0.0088 0.0038

Neptune 109886-10-29 16:46 G 41856399.07 41856399.20 41856399.32 0.0088 0.0031

Neptune 109887-01-25 17:58 G 41856487.12 41856487.25 41856487.38 0.0088 0.0025

Jupiter 109887-03-04 21:34 G 41856525.23 41856525.40 41856525.57 0.0508 0.0180

Neptune 109887-04-23 19:25 G 41856575.18 41856575.31 41856575.44 0.0088 0.0018

Neptune 109887-07-20 20:37 G 41856663.23 41856663.36 41856663.50 0.0088 0.0011

Neptune 109887-10-16 22:03 G 41856751.28 41856751.42 41856751.55 0.0088 0.0005

Neptune 109888-01-12 23:15 G 41856839.34 41856839.47 41856839.61 0.0088 0.0004

Neptune 109888-04-10 00:42 G 41856927.40 41856927.53 41856927.66 0.0088 0.0009

Saturn 109888-07-06 05:44 G 41857014.62 41857014.74 41857014.86 0.0296 0.0131

Neptune 109888-07-07 01:54 G 41857015.45 41857015.58 41857015.72 0.0088 0.0016

Saturn 109888-10-02 18:13 G 41857103.13 41857103.26 41857103.39 0.0296 0.0046

Neptune 109888-10-03 03:20 G 41857103.51 41857103.64 41857103.77 0.0088 0.0022

Neptune 109888-12-30 04:32 G 41857191.57 41857191.69 41857191.82 0.0088 0.0029

Saturn 109888-12-30 06:27 G 41857191.69 41857191.77 41857191.86 0.0296 0.0221 *

Neptune 109889-03-28 05:44 G 41857279.63 41857279.74 41857279.87 0.0088 0.0036

Neptune 109889-06-24 07:10 G 41857367.69 41857367.80 41857367.92 0.0088 0.0042

Neptune 109889-09-20 08:22 G 41857455.75 41857455.85 41857455.97 0.0088 0.0049

Neptune 109889-12-17 09:49 G 41857543.81 41857543.91 41857544.01 0.0088 0.0055

Neptune 109890-03-15 11:01 G 41857631.87 41857631.96 41857632.06 0.0088 0.0062

Neptune 109890-06-11 12:13 G 41857719.94 41857720.01 41857720.10 0.0088 0.0069

Moon 109890-06-11 18:42 G 41857720.19 41857720.28 41857720.37 0.2661 0.1412

Earth 109890-06-11 18:42 G 41857720.19 41857720.28 41857720.37 0.2654 0.1474 *

Neptune 109890-09-07 13:39 G 41857808.01 41857808.07 41857808.14 0.0088 0.0075

Neptune 109890-12-04 14:37 G 41857896.08 41857896.11 41857896.17 0.0088 0.0082

Jupiter 109892-08-09 02:51 G 41858509.50 41858509.62 41858509.74 0.0521 0.0236

Jupiter 109892-11-06 08:51 G 41858598.79 41858598.87 41858598.95 0.0518 0.0397

Mars 109894-07-18 07:25 G 41859217.71 41859217.81 41859217.91 0.1757 0.0849

Mars 109895-08-17 02:37 G 41859612.46 41859612.61 41859612.77 0.1791 0.0659

Jupiter 109898-12-21 18:42 G 41860835.10 41860835.28 41860835.46 0.0506 0.0042

Moon 109899-12-11 11:15 G 41861189.84 41861189.97 41861190.09 0.2669 0.1698

Earth 109899-12-11 11:30 G 41861189.85 41861189.98 41861190.11 0.2676 0.1557 *

Uranus 109901-11-10 22:03 G 41861889.35 41861889.42 41861889.50 0.0138 0.0127

Uranus 109902-02-07 05:15 G 41861977.60 41861977.72 41861977.86 0.0138 0.0100

Uranus 109902-05-06 12:42 G 41862065.87 41862066.03 41862066.19 0.0138 0.0074

Uranus 109902-08-02 19:54 G 41862154.16 41862154.33 41862154.51 0.0138 0.0047

Uranus 109902-10-30 03:06 G 41862242.45 41862242.63 41862242.82 0.0138 0.0021

Saturn 109903-01-26 02:51 G 41862330.59 41862330.62 41862330.67 0.0265 0.0260

Uranus 109903-01-26 10:32 G 41862330.75 41862330.94 41862331.13 0.0138 0.0006

Uranus 109903-04-24 17:44 G 41862419.06 41862419.24 41862419.43 0.0138 0.0033

Saturn 109903-04-24 23:15 G 41862419.30 41862419.47 41862419.66 0.0265 0.0080 *

Uranus 109903-07-22 01:10 G 41862507.38 41862507.55 41862507.73 0.0138 0.0060

Saturn 109903-07-22 19:54 G 41862508.16 41862508.33 41862508.51 0.0265 0.0104

Uranus 109903-10-18 08:22 G 41862595.72 41862595.85 41862596.01 0.0138 0.0087

Mars 109903-12-09 17:44 G 41862648.19 41862648.24 41862648.28 0.1765 0.1619

Uranus 109904-01-14 16:03 G 41862684.07 41862684.17 41862684.28 0.0138 0.0113

Jupiter 109904-05-29 06:13 G 41862819.69 41862819.76 41862819.84 0.0523 0.0411

Jupiter 109904-08-26 12:42 G 41862908.91 41862909.03 41862909.14 0.0520 0.0232

Mars 109905-11-14 00:27 G 41863353.46 41863353.52 41863353.58 0.1732 0.1451

Venus 109909-09-15 03:20 G 41864754.56 41864754.64 41864754.73 0.3682 0.2061

Moon 109910-06-08 12:27 G 41865020.93 41865021.02 41865021.10 0.2661 0.1541

Earth 109910-06-08 12:56 G 41865020.95 41865021.04 41865021.13 0.2657 0.1402 *

Jupiter 109910-10-10 15:34 G 41865145.00 41865145.15 41865145.31 0.0505 0.0255

Moon 109912-12-14 17:58 G 41865941.15 41865941.25 41865941.35 0.2676 0.2073

Earth 109912-12-14 19:39 G 41865941.23 41865941.32 41865941.40 0.2678 0.2216 *

Venus 109915-03-31 19:25 G 41866778.20 41866778.31 41866778.41 0.3678 0.0353

Mars 109915-04-06 10:46 G 41866783.85 41866783.95 41866784.05 0.1740 0.0733

Jupiter 109916-06-14 17:01 G 41867219.08 41867219.21 41867219.33 0.0520 0.0078

Venus 109916-10-16 17:30 G 41867343.09 41867343.23 41867343.37 0.3696 0.1427

Saturn 109917-11-24 09:20 G 41867746.78 41867746.89 41867747.00 0.0295 0.0160

Saturn 109918-02-20 21:49 G 41867835.28 41867835.41 41867835.54 0.0295 0.0017

Saturn 109918-05-20 10:18 G 41867923.83 41867923.93 41867924.02 0.0295 0.0192

Venus 109920-10-14 11:15 G 41868801.87 41868801.97 41868802.07 0.3675 0.1357

Jupiter 109922-07-29 12:27 G 41869454.96 41869455.02 41869455.07 0.0505 0.0474

Jupiter 109922-10-27 21:06 G 41869545.26 41869545.38 41869545.51 0.0508 0.0375

Earth 109923-06-11 06:13 G 41869771.65 41869771.76 41869771.87 0.2655 0.0215

Moon 109923-06-11 06:27 G 41869771.66 41869771.77 41869771.88 0.2661 0.0264 *

Mars 109924-08-26 21:06 G 41870214.27 41870214.38 41870214.50 0.1748 0.0050

Mars 109925-09-26 07:54 G 41870609.70 41870609.83 41870609.97 0.1801 0.1100

Venus 109926-04-30 03:06 G 41870825.57 41870825.63 41870825.68 0.3671 0.3014

Jupiter 109928-04-02 21:20 G 41871529.26 41871529.39 41871529.52 0.0521 0.0077

Saturn 109932-09-10 23:01 G 41873151.30 41873151.46 41873151.63 0.0265 0.0128

Saturn 109932-12-08 19:39 G 41873240.13 41873240.32 41873240.50 0.0265 0.0054

Saturn 109933-03-07 16:03 G 41873329.10 41873329.17 41873329.26 0.0265 0.0237

Mars 109934-01-17 07:25 G 41873644.71 41873644.81 41873644.92 0.1757 0.0754

Jupiter 109934-08-15 18:27 G 41873855.10 41873855.27 41873855.45 0.0508 0.0163

Mars 109935-02-16 03:49 G 41874039.50 41874039.66 41874039.83 0.1792 0.0461

Earth 109936-06-12 23:30 G 41874522.40 41874522.48 41874522.56 0.2654 0.1806

Moon 109936-06-13 00:13 G 41874522.43 41874522.51 41874522.58 0.2656 0.1915 *

Jupiter 109940-01-21 01:10 G 41875839.44 41875839.55 41875839.66 0.0521 0.0242

Jupiter 109940-04-19 07:10 G 41875928.72 41875928.80 41875928.88 0.0518 0.0391

Mars 109943-06-09 17:44 G 41877075.18 41877075.24 41877075.29 0.1765 0.1522

Uranus 109945-02-09 18:27 G 41877686.22 41877686.27 41877686.34 0.0140 0.0124

Uranus 109945-05-08 22:03 G 41877774.34 41877774.42 41877774.52 0.0140 0.0104

Mars 109945-05-15 00:27 G 41877780.47 41877780.52 41877780.56 0.1732 0.1546

Uranus 109945-08-05 01:39 G 41877862.47 41877862.57 41877862.68 0.0140 0.0084

Uranus 109945-11-01 05:15 G 41877950.60 41877950.72 41877950.84 0.0140 0.0064

Moon 109945-12-12 16:32 G 41877992.05 41877992.19 41877992.33 0.2676 0.1135

Earth 109945-12-12 18:13 G 41877992.11 41877992.26 41877992.41 0.2677 0.0823 *

Uranus 109946-01-28 08:51 G 41878038.74 41878038.87 41878039.00 0.0140 0.0044

Uranus 109946-04-26 12:13 G 41878126.88 41878127.01 41878127.15 0.0140 0.0025

Jupiter 109946-06-03 16:03 G 41878164.99 41878165.17 41878165.35 0.0507 0.0048

Uranus 109946-07-23 15:49 G 41878215.03 41878215.16 41878215.30 0.0140 0.0006

Uranus 109946-10-19 19:25 G 41878303.18 41878303.31 41878303.44 0.0140 0.0015

Uranus 109947-01-15 22:46 G 41878391.33 41878391.45 41878391.59 0.0140 0.0035

Saturn 109947-04-13 11:01 G 41878478.87 41878478.96 41878479.05 0.0296 0.0214

Uranus 109947-04-14 02:22 G 41878479.48 41878479.60 41878479.72 0.0140 0.0055

Saturn 109947-07-10 23:44 G 41878567.36 41878567.49 41878567.62 0.0296 0.0037

Uranus 109947-07-11 05:44 G 41878567.63 41878567.74 41878567.86 0.0140 0.0075

Uranus 109947-10-07 09:06 G 41878655.79 41878655.88 41878655.99 0.0140 0.0095

Saturn 109947-10-07 11:58 G 41878655.89 41878656.00 41878656.12 0.0296 0.0140 *

Uranus 109948-01-03 12:42 G 41878743.96 41878744.03 41878744.11 0.0141 0.0114

Uranus 109948-03-31 16:03 G 41878832.14 41878832.17 41878832.22 0.0141 0.0134

Pluto 109949-11-01 17:44 G 41879412.16 41879412.24 41879412.34 0.0060 0.0053

Pluto 109950-01-28 18:56 G 41879500.17 41879500.29 41879500.44 0.0060 0.0044

Pluto 109950-04-26 20:37 G 41879588.20 41879588.36 41879588.52 0.0060 0.0034

Pluto 109950-07-23 21:49 G 41879676.24 41879676.41 41879676.60 0.0060 0.0025

Pluto 109950-10-19 23:15 G 41879764.29 41879764.47 41879764.67 0.0060 0.0015

Pluto 109951-01-16 00:42 G 41879852.34 41879852.53 41879852.73 0.0060 0.0006

Pluto 109951-04-14 02:08 G 41879940.40 41879940.59 41879940.79 0.0060 0.0004

Pluto 109951-07-11 03:20 G 41880028.46 41880028.64 41880028.84 0.0060 0.0014

Pluto 109951-10-07 04:46 G 41880116.52 41880116.70 41880116.89 0.0060 0.0023

Jupiter 109951-11-09 05:01 G 41880149.63 41880149.71 41880149.79 0.0522 0.0410

Pluto 109952-01-03 05:58 G 41880204.60 41880204.75 41880204.93 0.0060 0.0033

Jupiter 109952-02-06 11:15 G 41880238.85 41880238.97 41880239.08 0.0519 0.0233

Pluto 109952-03-31 07:10 G 41880292.68 41880292.80 41880292.96 0.0060 0.0043

Pluto 109952-06-27 08:51 G 41880380.78 41880380.87 41880380.97 0.0060 0.0053

Mars 109954-10-05 10:46 G 41881210.85 41881210.95 41881211.05 0.1740 0.0831

Earth 109956-06-08 17:44 G 41881823.14 41881823.24 41881823.34 0.2656 0.1067

Moon 109956-06-08 17:58 G 41881823.15 41881823.25 41881823.35 0.2662 0.0965 *

Jupiter 109958-03-22 13:25 G 41882474.90 41882475.06 41882475.21 0.0506 0.0260

Venus 109960-10-06 08:51 G 41883403.82 41883403.87 41883403.92 0.3684 0.3242

Saturn 109962-01-28 23:58 G 41883883.36 41883883.50 41883883.65 0.0265 0.0165

Saturn 109962-04-27 20:37 G 41883972.17 41883972.36 41883972.55 0.0265 0.0016

Saturn 109962-07-25 17:15 G 41884061.10 41884061.22 41884061.34 0.0265 0.0200

Jupiter 109963-11-25 14:51 G 41884548.99 41884549.12 41884549.25 0.0520 0.0064

Mars 109964-02-25 21:06 G 41884641.27 41884641.38 41884641.50 0.1748 0.0091

Mars 109965-03-27 09:06 G 41885036.76 41885036.88 41885037.00 0.1802 0.1296

Venus 109966-04-22 00:56 G 41885427.45 41885427.54 41885427.64 0.3681 0.1481

Neptune 109969-04-20 21:34 G 41886522.34 41886522.40 41886522.49 0.0089 0.0082

Earth 109969-06-11 11:01 G 41886573.85 41886573.96 41886574.07 0.2655 0.0547

Moon 109969-06-11 11:44 G 41886573.88 41886573.99 41886574.10 0.2654 0.0610 *

Neptune 109969-07-18 01:25 G 41886610.45 41886610.56 41886610.67 0.0089 0.0072

Neptune 109969-10-14 04:18 G 41886698.57 41886698.68 41886698.84 0.0089 0.0063

Jupiter 109970-01-08 10:32 G 41886784.88 41886784.94 41886785.00 0.0505 0.0471

Neptune 109970-01-10 07:54 G 41886786.70 41886786.83 41886787.00 0.0089 0.0053

Neptune 109970-04-08 11:30 G 41886874.83 41886874.98 41886875.17 0.0089 0.0043

Jupiter 109970-04-08 19:25 G 41886875.19 41886875.31 41886875.43 0.0508 0.0376

Neptune 109970-07-05 15:06 G 41886962.97 41886963.13 41886963.32 0.0089 0.0033

Neptune 109970-10-01 18:42 G 41887051.11 41887051.28 41887051.48 0.0089 0.0023

Neptune 109970-12-28 22:32 G 41887139.25 41887139.44 41887139.63 0.0089 0.0012

Neptune 109971-03-27 02:08 G 41887227.40 41887227.59 41887227.78 0.0089 0.0002

Neptune 109971-06-23 05:44 G 41887315.55 41887315.74 41887315.93 0.0089 0.0008

Neptune 109971-09-19 09:06 G 41887403.70 41887403.88 41887404.08 0.0089 0.0018

Venus 109971-11-05 17:01 G 41887451.10 41887451.21 41887451.31 0.3677 0.0278

Neptune 109971-12-16 12:42 G 41887491.86 41887492.03 41887492.22 0.0089 0.0028

Neptune 109972-03-13 16:18 G 41887580.01 41887580.18 41887580.36 0.0089 0.0038

Neptune 109972-06-09 19:54 G 41887668.18 41887668.33 41887668.50 0.0089 0.0049

Neptune 109972-09-05 23:30 G 41887756.34 41887756.48 41887756.63 0.0089 0.0059

Neptune 109972-12-03 03:06 G 41887844.52 41887844.63 41887844.76 0.0089 0.0069

Neptune 109973-03-01 06:27 G 41887932.70 41887932.77 41887932.88 0.0089 0.0080

Venus 109973-05-23 19:25 G 41888016.16 41888016.31 41888016.46 0.3697 0.0149

Neptune 109973-05-28 10:18 G 41888020.93 41888020.93 41888020.95 0.0089 0.0089

Mars 109973-07-18 07:25 G 41888071.71 41888071.81 41888071.92 0.1756 0.0662

Mars 109974-08-17 04:46 G 41888466.53 41888466.70 41888466.86 0.1792 0.0295

Jupiter 109975-09-13 18:56 G 41888859.17 41888859.29 41888859.42 0.0521 0.0095

Saturn 109976-08-30 14:37 G 41889211.04 41889211.11 41889211.19 0.0295 0.0241

Saturn 109976-11-27 03:20 G 41889299.51 41889299.64 41889299.77 0.0295 0.0064

Saturn 109977-02-23 15:49 G 41889388.04 41889388.16 41889388.28 0.0295 0.0113

Venus 109977-05-21 08:51 G 41889474.78 41889474.87 41889474.95 0.3674 0.1916

Saturn 109977-05-23 04:03 G 41889476.65 41889476.67 41889476.70 0.0295 0.0287

Jupiter 109982-01-25 15:20 G 41891184.97 41891185.14 41891185.32 0.0507 0.0145

Earth 109982-06-14 04:18 G 41891324.62 41891324.68 41891324.74 0.2653 0.2140

Moon 109982-06-14 04:18 G 41891324.63 41891324.68 41891324.74 0.2647 0.2211 *

Venus 109982-12-05 00:27 G 41891498.50 41891498.52 41891498.55 0.3671 0.3558

Mars 109982-12-08 17:30 G 41891502.17 41891502.23 41891502.30 0.1765 0.1435

Mars 109984-11-13 00:13 G 41892207.48 41892207.51 41892207.55 0.1732 0.1635

Uranus 109985-12-01 05:58 G 41892590.66 41892590.75 41892590.85 0.0138 0.0117

Uranus 109986-02-27 12:56 G 41892678.92 41892679.04 41892679.19 0.0138 0.0092

Uranus 109986-05-26 20:08 G 41892767.19 41892767.34 41892767.52 0.0138 0.0066

Uranus 109986-08-23 03:49 G 41892855.48 41892855.66 41892855.84 0.0138 0.0038

Uranus 109986-11-19 11:01 G 41892943.77 41892943.96 41892944.15 0.0138 0.0012

Uranus 109987-02-15 18:27 G 41893032.08 41893032.27 41893032.46 0.0138 0.0015

Uranus 109987-05-15 01:39 G 41893120.39 41893120.57 41893120.75 0.0138 0.0042

Jupiter 109987-07-02 23:30 G 41893169.36 41893169.48 41893169.59 0.0522 0.0248

Uranus 109987-08-11 08:51 G 41893208.72 41893208.87 41893209.04 0.0138 0.0069

Jupiter 109987-09-30 05:30 G 41893258.64 41893258.73 41893258.81 0.0518 0.0387

Uranus 109987-11-07 16:03 G 41893297.05 41893297.17 41893297.32 0.0138 0.0096

Uranus 109988-02-03 23:44 G 41893385.41 41893385.49 41893385.58 0.0138 0.0122

Earth 109989-06-07 05:01 G 41893874.66 41893874.71 41893874.76 0.2657 0.2358

Moon 109989-06-07 05:30 G 41893874.68 41893874.73 41893874.78 0.2662 0.2320 *

Saturn 109991-06-17 23:58 G 41894615.40 41894615.50 41894615.62 0.0265 0.0211

Saturn 109991-09-14 20:22 G 41894704.17 41894704.35 41894704.54 0.0265 0.0031

Saturn 109991-12-12 16:46 G 41894793.06 41894793.20 41894793.36 0.0265 0.0152

Moon 109991-12-14 00:56 G 41894794.38 41894794.54 41894794.70 0.2684 0.0024

Earth 109991-12-14 00:56 G 41894794.38 41894794.54 41894794.70 0.2677 0.0116 *

Jupiter 109993-11-13 12:56 G 41895494.86 41895495.04 41895495.22 0.0507 0.0064

Mars 109994-04-05 10:46 G 41895637.85 41895637.95 41895638.04 0.1740 0.0918

Jupiter 109999-04-21 03:20 G 41897479.56 41897479.64 41897479.72 0.0522 0.0413

Jupiter 109999-07-19 09:34 G 41897568.78 41897568.90 41897569.01 0.0519 0.0229

111TH MILLENNIUM CE

This is a list of transits of Mercury in the 111th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Earth 110002-06-09 22:32 G 41898625.33 41898625.44 41898625.54 0.2656 0.0735

Moon 110002-06-09 23:01 G 41898625.35 41898625.46 41898625.57 0.2652 0.0584 *

Mars 110003-08-26 21:20 G 41899068.27 41899068.39 41899068.50 0.1748 0.0203

Mars 110004-09-25 09:49 G 41899463.81 41899463.91 41899464.01 0.1802 0.1462

Jupiter 110005-09-01 10:46 G 41899804.80 41899804.95 41899805.10 0.0506 0.0269

Saturn 110006-04-16 04:46 G 41900031.59 41900031.70 41900031.83 0.0296 0.0122

Saturn 110006-07-13 17:30 G 41900120.10 41900120.23 41900120.36 0.0296 0.0056

Saturn 110006-10-10 05:44 G 41900208.66 41900208.74 41900208.83 0.0296 0.0231

Jupiter 110011-05-07 13:39 G 41901878.94 41901879.07 41901879.19 0.0520 0.0069

Mars 110013-01-16 07:25 G 41902498.70 41902498.81 41902498.92 0.1756 0.0568

Mars 110014-02-15 05:30 G 41902893.56 41902893.73 41902893.90 0.1792 0.0129

Moon 110015-06-12 15:49 G 41903376.05 41903376.16 41903376.26 0.2648 0.0850

Earth 110015-06-12 15:49 G 41903376.05 41903376.16 41903376.26 0.2655 0.0885 *

Venus 110017-05-13 06:27 G 41904076.70 41904076.77 41904076.84 0.3683 0.2651

Jupiter 110017-06-20 08:22 G 41904114.79 41904114.85 41904114.91 0.0505 0.0474

Jupiter 110017-09-18 17:01 G 41904205.09 41904205.21 41904205.34 0.0508 0.0373

Saturn 110020-11-04 00:42 G 41905347.48 41905347.53 41905347.59 0.0265 0.0251

Saturn 110021-01-31 21:06 G 41905436.20 41905436.38 41905436.56 0.0265 0.0071

Saturn 110021-04-30 17:30 G 41905525.07 41905525.23 41905525.41 0.0265 0.0111

Mars 110022-06-08 17:30 G 41905929.16 41905929.23 41905929.31 0.1765 0.1339

Venus 110022-11-26 22:32 G 41906100.34 41906100.44 41906100.54 0.3680 0.0906

Jupiter 110023-02-23 17:01 G 41906189.09 41906189.21 41906189.34 0.0521 0.0105

Mars 110023-07-08 01:39 G 41906323.51 41906323.57 41906323.63 0.1783 0.1641

Mars 110024-05-14 00:13 G 41906634.50 41906634.51 41906634.52 0.1732 0.1725

Venus 110024-06-13 13:25 G 41906665.00 41906665.06 41906665.13 0.3693 0.3273

Venus 110028-06-11 14:22 G 41908124.00 41908124.10 41908124.20 0.3676 0.0806

Moon 110028-06-14 08:22 G 41908126.81 41908126.85 41908126.89 0.2651 0.2387

Earth 110028-06-14 09:06 G 41908126.84 41908126.88 41908126.91 0.2653 0.2477 *

Uranus 110028-12-03 22:32 G 41908299.42 41908299.44 41908299.47 0.0140 0.0137

Uranus 110029-03-02 02:08 G 41908387.53 41908387.59 41908387.67 0.0140 0.0117

Uranus 110029-05-29 05:44 G 41908475.65 41908475.74 41908475.84 0.0140 0.0097

Jupiter 110029-07-07 13:54 G 41908514.91 41908515.08 41908515.25 0.0507 0.0152

Uranus 110029-08-25 09:20 G 41908563.78 41908563.89 41908564.01 0.0140 0.0077

Uranus 110029-11-21 12:56 G 41908651.92 41908652.04 41908652.17 0.0140 0.0057

Venus 110029-12-28 21:20 G 41908689.25 41908689.39 41908689.52 0.3699 0.1739

Uranus 110030-02-17 16:32 G 41908740.06 41908740.19 41908740.32 0.0140 0.0037

Uranus 110030-05-16 20:08 G 41908828.20 41908828.34 41908828.47 0.0140 0.0018

Uranus 110030-08-12 23:30 G 41908916.35 41908916.48 41908916.62 0.0140 0.0005

Uranus 110030-11-09 03:06 G 41909004.50 41909004.63 41909004.76 0.0140 0.0022

Uranus 110031-02-05 06:27 G 41909092.65 41909092.77 41909092.90 0.0140 0.0042

Uranus 110031-05-04 10:03 G 41909180.80 41909180.92 41909181.04 0.0140 0.0062

Uranus 110031-07-31 13:25 G 41909268.96 41909269.06 41909269.17 0.0140 0.0081

Uranus 110031-10-27 17:01 G 41909357.12 41909357.21 41909357.30 0.0140 0.0101

Uranus 110032-01-23 20:22 G 41909445.29 41909445.35 41909445.42 0.0140 0.0121

Uranus 110032-04-20 23:58 G 41909533.49 41909533.50 41909533.51 0.0141 0.0140

Mars 110033-10-04 10:46 G 41910064.86 41910064.95 41910065.04 0.1740 0.1014

Venus 110033-12-26 06:13 G 41910147.69 41910147.76 41910147.84 0.3673 0.2469

Jupiter 110034-12-12 21:20 G 41910499.27 41910499.39 41910499.50 0.0522 0.0263

Jupiter 110035-03-12 03:20 G 41910588.55 41910588.64 41910588.73 0.0519 0.0373

Earth 110035-06-08 09:49 G 41910676.84 41910676.91 41910676.98 0.2657 0.2015

Moon 110035-06-08 10:18 G 41910676.85 41910676.93 41910677.00 0.2652 0.1902 *

Saturn 110035-09-03 08:22 G 41910763.74 41910763.85 41910763.97 0.0295 0.0151

Saturn 110035-11-30 21:06 G 41910852.25 41910852.38 41910852.51 0.0295 0.0026

Saturn 110036-02-27 09:20 G 41910940.80 41910940.89 41910940.99 0.0295 0.0202

Earth 110037-12-14 07:39 G 41911596.66 41911596.82 41911596.98 0.2677 0.0608

Moon 110037-12-14 09:20 G 41911596.75 41911596.89 41911597.04 0.2679 0.0958 *

Jupiter 110041-04-25 10:03 G 41912824.74 41912824.92 41912825.10 0.0506 0.0078

Mars 110043-02-24 21:06 G 41913495.27 41913495.38 41913495.49 0.1748 0.0275

Mars 110044-03-26 10:46 G 41913890.88 41913890.95 41913891.01 0.1802 0.1647

Pluto 110045-07-26 04:18 G 41914377.61 41914377.68 41914377.76 0.0085 0.0069

Pluto 110045-10-22 05:30 G 41914465.63 41914465.73 41914465.85 0.0085 0.0051

Pluto 110046-01-18 06:56 G 41914553.67 41914553.79 41914553.91 0.0084 0.0032

Pluto 110046-04-16 08:08 G 41914641.71 41914641.84 41914641.97 0.0084 0.0014

Pluto 110046-07-13 09:20 G 41914729.76 41914729.89 41914730.02 0.0084 0.0005

Jupiter 110046-10-01 01:39 G 41914809.49 41914809.57 41914809.65 0.0523 0.0418

Pluto 110046-10-09 10:32 G 41914817.81 41914817.94 41914818.07 0.0084 0.0023

Jupiter 110046-12-29 07:54 G 41914898.72 41914898.83 41914898.95 0.0519 0.0226

Pluto 110047-01-05 11:30 G 41914905.87 41914905.98 41914906.10 0.0084 0.0041

Pluto 110047-04-03 12:42 G 41914993.95 41914994.03 41914994.13 0.0084 0.0059

Pluto 110047-06-30 13:54 G 41915082.04 41915082.08 41915082.14 0.0084 0.0077

Moon 110048-06-10 02:51 G 41915427.52 41915427.62 41915427.73 0.2649 0.0485

Earth 110048-06-10 03:06 G 41915427.53 41915427.63 41915427.74 0.2656 0.0402 *

Neptune 110049-08-22 04:46 G 41915865.67 41915865.70 41915865.74 0.0088 0.0084

Neptune 110049-11-18 06:13 G 41915953.70 41915953.76 41915953.83 0.0088 0.0077

Neptune 110050-02-14 07:25 G 41916041.74 41916041.81 41916041.90 0.0088 0.0071

Neptune 110050-05-13 08:51 G 41916129.79 41916129.87 41916129.97 0.0088 0.0064

Saturn 110050-06-20 21:06 G 41916168.22 41916168.38 41916168.55 0.0265 0.0117

Neptune 110050-08-09 10:18 G 41916217.83 41916217.93 41916218.04 0.0088 0.0057

Saturn 110050-09-17 17:30 G 41916257.05 41916257.23 41916257.41 0.0265 0.0064

Neptune 110050-11-05 11:44 G 41916305.88 41916305.99 41916306.10 0.0088 0.0050

Saturn 110050-12-15 13:54 G 41916346.03 41916346.08 41916346.16 0.0265 0.0247

Neptune 110051-02-01 13:10 G 41916393.93 41916394.05 41916394.17 0.0088 0.0043

Neptune 110051-04-30 14:22 G 41916481.98 41916482.10 41916482.23 0.0088 0.0037

Neptune 110051-07-27 15:49 G 41916570.03 41916570.16 41916570.29 0.0088 0.0030

Neptune 110051-10-23 17:15 G 41916658.09 41916658.22 41916658.35 0.0088 0.0023

Neptune 110052-01-19 18:27 G 41916746.14 41916746.27 41916746.41 0.0088 0.0017

Neptune 110052-04-16 19:54 G 41916834.20 41916834.33 41916834.46 0.0088 0.0010

Neptune 110052-07-13 21:06 G 41916922.25 41916922.38 41916922.52 0.0088 0.0004

Mars 110052-07-17 07:25 G 41916925.70 41916925.81 41916925.92 0.1756 0.0473

Neptune 110052-10-09 22:32 G 41917010.31 41917010.44 41917010.57 0.0088 0.0004

Neptune 110053-01-05 23:44 G 41917098.36 41917098.49 41917098.63 0.0088 0.0011

Jupiter 110053-02-11 07:39 G 41917134.68 41917134.82 41917134.97 0.0506 0.0284

Neptune 110053-04-04 01:10 G 41917186.42 41917186.55 41917186.68 0.0088 0.0017

Neptune 110053-07-01 02:22 G 41917274.48 41917274.60 41917274.73 0.0088 0.0024

Mars 110053-08-16 06:27 G 41917320.60 41917320.77 41917320.94 0.1792 0.0069

Neptune 110053-09-27 03:49 G 41917362.53 41917362.66 41917362.78 0.0088 0.0030

Neptune 110053-12-24 05:01 G 41917450.59 41917450.71 41917450.83 0.0088 0.0037

Neptune 110054-03-22 06:27 G 41917538.65 41917538.77 41917538.88 0.0088 0.0043

Neptune 110054-06-18 07:39 G 41917626.71 41917626.82 41917626.93 0.0088 0.0050

Neptune 110054-09-14 08:51 G 41917714.78 41917714.87 41917714.98 0.0088 0.0057

Neptune 110054-12-11 10:18 G 41917802.84 41917802.93 41917803.02 0.0088 0.0063

Neptune 110055-03-09 11:15 G 41917890.90 41917890.97 41917891.06 0.0088 0.0070

Neptune 110055-06-05 12:56 G 41917978.97   41917979.04   41917979.10 0.0088 0.0076

Neptune 110055-09-01 13:54 G 41918067.05   41918067.08   41918067.13 0.0088 0.0083

Jupiter 110058-10-17 12:13 G 41919208.88   41919209.01   41919209.13 0.0520 0.0069

Moon   110061-06-12 19:54 G 41920178.23   41920178.33   41920178.42 0.2656 0.1143

Earth   110061-06-12 20:37 G 41920178.26   41920178.36   41920178.45 0.2654 0.1220 *

Mars   110061-12-07 17:30 G 41920356.15   41920356.23   41920356.32 0.1764 0.1241

Mars   110063-01-06 02:22 G 41920750.51   41920750.60   41920750.69 0.1783 0.1484

Jupiter 110064-11-30 05:44 G 41921444.69   41921444.74   41921444.79 0.0505 0.0483

Saturn   110065-01-20 09:49 G 41921495.82   41921495.91   41921496.00 0.0296 0.0213

Jupiter 110065-02-28 14:37 G 41921534.98   41921535.11   41921535.23 0.0508 0.0364

Saturn   110065-04-18 22:18 G 41921584.30   41921584.43   41921584.56 0.0296 0.0035

Saturn   110065-07-16 10:46 G 41921672.84   41921672.95   41921673.07 0.0296 0.0141

Uranus   110069-09-24 06:42 G 41923203.74   41923203.78   41923203.82 0.0139 0.0135

Uranus   110069-12-21 13:54 G 41923291.97   41923292.08   41923292.19 0.0138 0.0109

Uranus   110070-03-19 20:51 G 41923380.23   41923380.37   41923380.53 0.0138 0.0083

Uranus   110070-06-16 04:03 G 41923468.51   41923468.67   41923468.85 0.0138 0.0057

Jupiter 110070-08-05 16:03 G 41923519.04   41923519.17   41923519.30 0.0521 0.0096

Uranus   110070-09-12 11:30 G 41923556.80   41923556.98   41923557.17 0.0138 0.0030

Uranus   110070-12-09 18:56 G 41923645.10   41923645.29   41923645.48 0.0138 0.0003

Earth   110070-12-12 06:27 G 41923647.70   41923647.77   41923647.84 0.2676 0.2398

Moon   110070-12-12 08:08 G 41923647.74   41923647.84   41923647.94 0.2673 0.2078 *

Uranus   110071-03-08 02:08 G 41923733.41   41923733.59   41923733.78 0.0138 0.0024

Uranus   110071-06-04 09:20 G 41923821.72   41923821.89   41923822.07 0.0138 0.0051

Uranus   110071-08-31 17:01 G 41923910.05   41923910.21   41923910.36 0.0138 0.0077

Uranus   110071-11-28 00:13 G 41923998.39   41923998.51   41923998.64 0.0138 0.0104

Uranus   110072-02-24 07:39 G 41924086.77   41924086.82   41924086.88 0.0138 0.0131

Mars   110073-04-04 10:46 G 41924491.86   41924491.95   41924492.04 0.1739 0.1106

Venus   110073-12-18 04:03 G 41924749.59   41924749.67   41924749.76 0.3682 0.2061

Jupiter 110076-12-17 11:44 G 41925844.82   41925844.99   41925845.17 0.0507 0.0152

Venus   110079-07-03 20:08 G 41926773.24   41926773.34   41926773.44 0.3679 0.0332

Saturn 110079-11-07 21:20 G 41926900.24 41926900.39 41926900.53 0.0265 0.0162

Saturn 110080-02-04 17:44 G 41926989.05 41926989.24 41926989.42 0.0265 0.0019

Saturn 110080-05-03 14:08 G 41927077.97 41927078.09 41927078.21 0.0265 0.0201

Venus 110081-01-18 15:20 G 41927338.00 41927338.14 41927338.27 0.3695 0.1746

Moon 110081-06-08 14:08 G 41927479.00 41927479.09 41927479.17 0.2653 0.1710

Earth 110081-06-08 14:37 G 41927479.03 41927479.11 41927479.19 0.2657 0.1675 *

Jupiter 110082-05-24 19:25 G 41927829.20 41927829.31 41927829.43 0.0522 0.0269

Jupiter 110082-08-22 01:39 G 41927918.48 41927918.57 41927918.66 0.0519 0.0367

Mars 110082-08-25 21:06 G 41927922.27 41927922.38 41927922.49 0.1748 0.0371

Moon 110083-12-15 14:22 G 41928398.96 41928399.10 41928399.25 0.2671 0.1274

Earth 110083-12-15 14:22 G 41928398.96 41928399.10 41928399.24 0.2678 0.1339 *

Venus 110085-01-16 11:58 G 41928796.91 41928797.00 41928797.10 0.3676 0.1363

Venus 110086-08-04 23:15 G 41929362.41 41929362.47 41929362.53 0.3700 0.3350

Jupiter 110088-10-05 08:51 G 41930154.69 41930154.87 41930155.05 0.0506 0.0066

Venus 110090-08-02 03:49 G 41930820.60 41930820.66 41930820.72 0.3672 0.3014

Mars 110092-01-16 07:25 G 41931352.70 41931352.81 41931352.92 0.1756 0.0380

Mars 110093-02-14 07:25 G 41931747.64 41931747.81 41931747.98 0.1793 0.0244

Jupiter 110094-03-12 23:30 G 41932139.41 41932139.48 41932139.55 0.0523 0.0430

Saturn 110094-06-09 12:56 G 41932227.97 41932228.04 41932228.11 0.0295 0.0246

Jupiter 110094-06-10 05:58 G 41932228.63 41932228.75 41932228.87 0.0520 0.0214

Moon 110094-06-11 07:25 G 41932229.70 41932229.81 41932229.92 0.2659 0.0204

Earth 110094-06-11 07:54 G 41932229.72 41932229.83 41932229.94 0.2656 0.0077 *

Saturn 110094-09-06 01:39 G 41932316.44 41932316.57 41932316.70 0.0295 0.0069

Saturn 110094-12-03 14:08 G 41932404.97 41932405.09 41932405.21 0.0295 0.0108

Saturn 110095-03-02 02:22 G 41932493.57 41932493.60 41932493.64 0.0295 0.0283

Jupiter 110100-07-25 05:01 G 41934464.57 41934464.71 41934464.86 0.0506 0.0293

Mars 110101-06-08 17:30 G 41934783.14 41934783.23 41934783.32 0.1764 0.1153

Mars 110102-07-08 03:20 G 41935177.52 41935177.64 41935177.75 0.1783 0.1302

Jupiter 110106-03-30 10:32 G 41936538.81 41936538.94 41936539.07 0.0520 0.0066

Moon 110107-06-15 01:10 G 41936980.47 41936980.55 41936980.64 0.2661 0.1611

Earth 110107-06-15 01:10 G 41936980.47 41936980.55 41936980.64 0.2654 0.1555 *

Saturn 110109-03-27 21:20 G 41937632.28 41937632.39 41937632.51 0.0265 0.0207

Saturn 110109-06-24 17:44 G 41937721.06 41937721.24 41937721.43 0.0264 0.0027

Saturn 110109-09-21 14:08 G 41937809.94 41937810.09 41937810.24 0.0264 0.0154

Jupiter 110112-05-13 02:51 G 41938774.59 41938774.62 41938774.66 0.0505 0.0494

Jupiter 110112-08-11 11:30 G 41938864.86 41938864.98 41938865.12 0.0508 0.0353

Mars 110112-10-04 10:32 G 41938918.86 41938918.94 41938919.03 0.1740 0.1201

Uranus 110112-12-25 06:13 G 41939000.72 41939000.76 41939000.82 0.0140 0.0130

Uranus 110113-03-23 09:49 G 41939088.84 41939088.91 41939089.00 0.0140 0.0110

Uranus 110113-06-19 13:25 G 41939176.97 41939177.06 41939177.17 0.0140 0.0090

Uranus 110113-09-15 17:01 G 41939265.10 41939265.21 41939265.33 0.0140 0.0070

Uranus 110113-12-12 20:37 G 41939353.24 41939353.36 41939353.49 0.0140 0.0050

Uranus 110114-03-11 00:13 G 41939441.38 41939441.51 41939441.64 0.0140 0.0030

Uranus 110114-06-07 03:49 G 41939529.53 41939529.66 41939529.80 0.0140 0.0010

Uranus 110114-09-03 07:25 G 41939617.67 41939617.81 41939617.94 0.0140 0.0010

Uranus 110114-11-30 10:46 G 41939705.82 41939705.95 41939706.08 0.0140 0.0030

Uranus 110115-02-26 14:22 G 41939793.97 41939794.10 41939794.22 0.0140 0.0049

Uranus 110115-05-25 17:44 G 41939882.13 41939882.24 41939882.36 0.0140 0.0069

Uranus 110115-08-21 21:20 G 41939970.29 41939970.39 41939970.49 0.0140 0.0088

Uranus 110115-11-18 00:42 G 41940058.45 41940058.53 41940058.62 0.0140 0.0108

Uranus 110116-02-14 04:18 G 41940146.63 41940146.68 41940146.73 0.0141 0.0128

Moon 110116-12-13 12:42 G 41940449.90 41940450.03 41940450.15 0.2670 0.1665

Earth 110116-12-13 13:10 G 41940449.93 41940450.05 41940450.18 0.2676 0.1667 *

Jupiter 110118-01-16 14:37 G 41940848.99 41940849.11 41940849.24 0.0521 0.0094

Mars 110122-02-24 21:06 G 41942349.27 41942349.38 41942349.49 0.1747 0.0470

Saturn 110124-01-25 02:22 G 41943048.49 41943048.60 41943048.72 0.0296 0.0136

Saturn 110124-04-22 15:06 G 41943137.00 41943137.13 41943137.26 0.0296 0.0043

Jupiter 110124-05-30 09:20 G 41943174.72 41943174.89 41943175.07 0.0507 0.0144

Saturn 110124-07-20 03:20 G 41943225.56 41943225.64 41943225.73 0.0296 0.0218

Venus 110125-01-09 09:34 G 41943398.85 41943398.90 41943398.95 0.3685 0.3239

Moon 110127-06-10 18:56 G 41944281.20 41944281.29 41944281.38 0.2661 0.1437

Earth 110127-06-10 19:25 G 41944281.21 41944281.31 41944281.40 0.2657 0.1337 *

Jupiter 110129-11-04 18:42 G 41945159.16 41945159.28 41945159.39 0.0522 0.0257

Moon 110129-12-16 19:25 G 41945201.19 41945201.31 41945201.44 0.2677 0.1696

Earth 110129-12-16 21:20 G 41945201.29 41945201.39 41945201.49 0.2678 0.2088 *

Jupiter 110130-02-02 00:42 G 41945248.44 41945248.53 41945248.62 0.0518 0.0378

Venus 110130-07-26 01:39 G 41945422.48 41945422.57 41945422.67 0.3681 0.1482

Mars 110131-07-18 07:25 G 41945779.69 41945779.81 41945779.92 0.1756 0.0289

Mars 110132-08-16 08:08 G 41946174.67 41946174.84 41946175.00 0.1793 0.0409

Neptune 110134-01-16 18:42 G 41946693.22 41946693.28 41946693.38 0.0089 0.0080

Neptune 110134-04-14 22:18 G 41946781.33 41946781.43 41946781.56 0.0089 0.0071

Neptune 110134-07-12 01:54 G 41946869.45 41946869.58 41946869.73 0.0089 0.0061

Neptune 110134-10-08 05:30 G 41946957.58 41946957.73 41946957.89 0.0089 0.0051

Neptune 110135-01-04 09:06 G 41947045.71 41947045.88 41947046.05 0.0089 0.0041

Neptune 110135-04-02 12:42 G 41947133.85 41947134.03 41947134.21 0.0089 0.0031

Neptune 110135-06-29 16:18 G 41947221.99 41947222.18 41947222.36 0.0089 0.0021

Neptune 110135-09-25 19:39 G 41947310.14 41947310.32 41947310.52 0.0089 0.0011

Neptune 110135-12-22 23:15 G 41947398.28 41947398.47 41947398.67 0.0089 0.0002

Venus 110136-02-08 17:44 G 41947446.13 41947446.24 41947446.34 0.3678 0.0259

Jupiter 110136-03-18 07:10 G 41947484.62 41947484.80 41947484.97 0.0506 0.0064

Neptune 110136-03-20 02:51 G 41947486.43 41947486.62 41947486.81 0.0089 0.0009

Neptune 110136-06-16 06:27 G 41947574.58 41947574.77 41947574.96 0.0089 0.0019

Neptune 110136-09-12 10:03 G 41947662.74 41947662.92 41947663.10 0.0089 0.0030

Neptune 110136-12-09 13:39 G 41947750.90 41947751.07 41947751.24 0.0089 0.0040

Neptune 110137-03-07 17:15 G 41947839.06 41947839.22 41947839.38 0.0089 0.0050

Neptune 110137-06-03 20:22 G 41947927.23 41947927.35 41947927.51 0.0089 0.0061

Venus 110137-08-26 17:01 G 41948011.05 41948011.21 41948011.36 0.3696 0.0252

Neptune 110137-08-30 23:58 G 41948015.41 41948015.50 41948015.64 0.0089 0.0071

Neptune 110137-11-27 03:49 G 41948103.59 41948103.66 41948103.76 0.0089 0.0081

Saturn 110138-08-14 20:37 G 41948364.33 41948364.36 41948364.41 0.0265 0.0258

Saturn 110138-11-11 17:01 G 41948453.04 41948453.21 41948453.39 0.0265 0.0079

Saturn 110139-02-08 13:25 G 41948541.89 41948542.06 41948542.24 0.0265 0.0103

Earth 110140-06-12 12:42 G 41949031.92 41949032.03 41949032.14 0.2655 0.0283

Moon 110140-06-12 12:56 G 41949031.94 41949032.04 41949032.15 0.2662 0.0370 *

Mars 110140-12-07 17:30 G 41949210.14 41949210.23 41949210.32 0.1764 0.1055

Jupiter 110141-08-23 22:03 G 41949469.35 41949469.42 41949469.49 0.0523 0.0431

Venus 110141-08-24 09:34 G 41949469.81 41949469.90 41949469.99 0.3675 0.1914

Jupiter 110141-11-21 04:32 G 41949558.57 41949558.69 41949558.80 0.0520 0.0213

Mars 110142-01-06 04:18 G 41949604.55 41949604.68 41949604.81 0.1784 0.1118

Venus 110147-03-10 01:10 G 41951493.53 41951493.55 41951493.58 0.3671 0.3548

Jupiter 110148-01-05 04:18 G 41951794.53 41951794.68 41951794.83 0.0505 0.0275

Mars 110152-04-04 10:32 G 41953345.87 41953345.94 41953346.02 0.1739 0.1292

Saturn 110153-06-13 05:30 G 41953780.62 41953780.73 41953780.84 0.0296 0.0173

Earth 110153-06-15 05:58 G 41953782.68 41953782.75 41953782.83 0.2654 0.1886

Moon 110153-06-15 06:42 G 41953782.71 41953782.78 41953782.85 0.2652 0.1976 *

Jupiter 110153-09-09 08:51 G 41953868.74 41953868.87 41953869.00 0.0520 0.0060

Saturn 110153-09-09 17:58 G 41953869.12 41953869.25 41953869.39 0.0296 0.0008

Uranus 110153-10-15 14:51 G 41953905.05 41953905.12 41953905.21 0.0139 0.0125

Saturn 110153-12-07 06:27 G 41953957.67 41953957.77 41953957.88 0.0296 0.0181

Uranus 110154-01-11 22:03 G 41953993.30 41953993.42 41953993.56 0.0138 0.0098

Uranus 110154-04-10 05:15 G 41954081.57 41954081.72 41954081.89 0.0138 0.0072

Uranus 110154-07-07 12:42 G 41954169.85 41954170.03 41954170.21 0.0138 0.0045

Uranus 110154-10-03 19:54 G 41954258.15 41954258.33 41954258.52 0.0138 0.0019

Uranus 110154-12-31 03:20 G 41954346.45 41954346.64 41954346.82 0.0138 0.0008

Uranus 110155-03-29 10:32 G 41954434.76 41954434.94 41954435.12 0.0138 0.0034

Uranus 110155-06-25 17:44 G 41954523.08 41954523.24 41954523.42 0.0138 0.0061

Uranus 110155-09-22 01:10 G 41954611.41 41954611.55 41954611.70 0.0138 0.0088

Uranus 110155-12-19 08:22 G 41954699.76 41954699.85 41954699.97 0.0138 0.0115

Jupiter 110159-10-24 00:42 G 41956104.51 41956104.53 41956104.56 0.0505 0.0498

Jupiter 110160-01-22 09:20 G 41956194.76 41956194.89 41956195.02 0.0508 0.0345

Moon 110160-06-08 06:27 G 41956332.75 41956332.77 41956332.78 0.2664 0.2623

Earth 110160-06-08 06:42 G 41956332.77 41956332.78 41956332.79 0.2658 0.2631 *

Mars 110161-08-25 21:06 G 41956776.27 41956776.38 41956776.49 0.1747 0.0559

Moon 110162-12-14 18:27 G 41957252.13 41957252.27 41957252.41 0.2680 0.1215

Earth 110162-12-14 19:54 G 41957252.18 41957252.33 41957252.48 0.2676 0.0954 *

Jupiter 110165-06-28 13:25 G 41958178.93 41958179.06 41958179.19 0.0521 0.0091

Saturn 110168-03-30 17:15 G 41959185.06 41959185.22 41959185.39 0.0264 0.0123

Saturn 110168-06-27 13:39 G 41959273.89 41959274.07 41959274.25 0.0264 0.0057

Saturn 110168-09-24 10:03 G 41959362.85 41959362.92 41959363.00 0.0264 0.0239

Mars 110171-01-16 07:25 G 41960206.69 41960206.81 41960206.92 0.1756 0.0191

Jupiter 110171-11-10 06:56 G 41960504.61 41960504.79 41960504.96 0.0507 0.0136

Mars 110172-02-15 09:06 G 41960601.72 41960601.88 41960602.04 0.1793 0.0607

Earth 110173-06-11 00:13 G 41961083.40 41961083.51 41961083.61 0.2657 0.1006

Moon 110173-06-11 00:42 G 41961083.43 41961083.53 41961083.63 0.2660 0.0964 *

Jupiter 110177-04-16 17:30 G 41962489.12 41962489.23 41962489.34 0.0522 0.0250

Jupiter 110177-07-14 23:30 G 41962578.40 41962578.48 41962578.57 0.0518 0.0384

Mars 110180-06-07 17:30 G 41963637.14 41963637.23 41963637.33 0.1764 0.0959

Mars 110181-07-07 04:46 G 41964031.56 41964031.70 41964031.85 0.1784 0.0967

Venus 110181-08-16 07:10 G 41964071.73 41964071.80 41964071.87 0.3684 0.2649

Saturn 110182-10-31 05:58 G 41964512.68 41964512.75 41964512.82 0.0296 0.0244

Saturn 110183-01-27 18:42 G 41964601.15 41964601.28 41964601.41 0.0296 0.0066

Saturn 110183-04-26 07:10 G 41964689.68 41964689.80 41964689.92 0.0296 0.0112

Saturn 110183-07-23 19:25 G 41964778.29 41964778.31 41964778.35 0.0296 0.0287

Jupiter 110183-08-29 04:46 G 41964814.52 41964814.70 41964814.88 0.0507 0.0067

Earth 110186-06-13 17:30 G 41965834.12 41965834.23 41965834.33 0.2655 0.0618

Moon 110186-06-13 17:58 G 41965834.15 41965834.25 41965834.36 0.2652 0.0771 *

Venus 110187-03-01 23:15 G 41966095.37 41966095.47 41966095.57 0.3681 0.0917

Venus 110188-09-16 11:01 G 41966659.93 41966659.96 41966659.99 0.3692 0.3603

Jupiter 110189-02-02 21:20 G 41966799.31 41966799.39 41966799.47 0.0522 0.0414

Jupiter 110189-05-03 03:49 G 41966888.54 41966888.66 41966888.77 0.0519 0.0228

Mars 110189-10-29 03:34 G 41967067.64 41967067.65 41967067.66 0.1772 0.1749

Mars 110191-10-04 10:32 G 41967772.88 41967772.94 41967773.01 0.1739 0.1388

Venus 110192-09-14 15:06 G 41968119.03 41968119.13 41968119.24 0.3677 0.0813

Venus 110194-04-02 18:42 G 41968684.14 41968684.28 41968684.42 0.3698 0.1349

Jupiter 110195-06-17 02:51 G 41969124.47 41969124.62 41969124.77 0.0506 0.0269

Pluto 110196-06-19 03:49 G 41969492.59 41969492.66 41969492.76 0.0060 0.0054

Pluto 110196-09-15 05:01 G 41969580.60 41969580.71 41969580.86 0.0060 0.0045

Pluto 110196-12-12 06:42 G 41969668.63 41969668.78 41969668.95 0.0060 0.0035

Uranus 110197-01-14 13:54 G 41969702.02 41969702.08 41969702.15 0.0140 0.0123

Pluto 110197-03-10 07:54 G 41969756.67 41969756.83 41969757.02 0.0060 0.0026

Uranus 110197-04-12 17:44 G 41969790.15 41969790.24 41969790.33 0.0140 0.0103

Pluto 110197-06-06 09:20 G 41969844.71 41969844.89 41969845.09 0.0060 0.0016

Uranus 110197-07-09 21:06 G 41969878.28 41969878.38 41969878.49 0.0140 0.0083

Saturn 110197-08-17 16:03 G 41969917.04 41969917.17 41969917.31 0.0265 0.0180

Pluto 110197-09-02 11:01 G 41969932.76 41969932.96 41969933.16 0.0060 0.0006

Uranus 110197-10-06 00:42 G 41969966.41 41969966.53 41969966.65 0.0140 0.0063

Saturn 110197-11-14 12:27 G 41970005.83 41970006.02 41970006.20 0.0265 0.0006

Pluto 110197-11-29 12:13 G 41970020.82 41970021.01 41970021.21 0.0060 0.0004

Uranus 110198-01-02 04:18 G 41970054.55 41970054.68 41970054.81 0.0140 0.0043

Saturn 110198-02-11 08:37 G 41970094.73 41970094.86 41970095.00 0.0265 0.0182

Pluto 110198-02-25 13:39 G 41970108.88 41970109.07 41970109.27 0.0060 0.0013

Uranus 110198-03-31 07:54 G 41970142.70 41970142.83 41970142.96 0.0140 0.0024

Venus 110198-03-31 06:56 G 41970142.72 41970142.79 41970142.87 0.3674 0.2458 *

Pluto 110198-05-24 14:51 G 41970196.95 41970197.12 41970197.31 0.0060 0.0023

Uranus 110198-06-27 11:15 G 41970230.84 41970230.97 41970231.11 0.0140 0.0006

Pluto 110198-08-20 16:18 G 41970285.03 41970285.18 41970285.36 0.0060 0.0032

Uranus 110198-09-23 14:51 G 41970318.99 41970319.12 41970319.26 0.0140 0.0016

Pluto 110198-11-16 17:30 G 41970373.11 41970373.23 41970373.39 0.0060 0.0042

Uranus 110198-12-20 18:27 G 41970407.14 41970407.27 41970407.40 0.0140 0.0036

Pluto 110199-02-12 18:42 G 41970461.21 41970461.28 41970461.41 0.0060 0.0052

Uranus 110199-03-18 21:49 G 41970495.29 41970495.41 41970495.54 0.0140 0.0056

Uranus 110199-06-15 01:10 G 41970583.45 41970583.55 41970583.67 0.0140 0.0076

Moon 110199-06-16 10:46 G 41970584.89 41970584.95 41970585.01 0.2647 0.2141

Earth 110199-06-16 10:46 G 41970584.89 41970584.95 41970585.01 0.2654 0.2221 *

Uranus 110199-09-11 05:01 G 41970671.61 41970671.71 41970671.80 0.0140 0.0095

Uranus 110199-12-08 08:08 G 41970759.78 41970759.84 41970759.93 0.0140 0.0115

Uranus 110200-03-06 11:58 G 41970847.96 41970848.00 41970848.03 0.0140 0.0134

Jupiter 110201-02-20 07:25 G 41971198.68 41971198.81 41971198.94 0.0520 0.0063

Mars 110201-02-24 21:06 G 41971203.27 41971203.38 41971203.48 0.1747 0.0654

Earth 110206-06-10 11:30 G 41973134.93 41973134.98 41973135.03 0.2658 0.2287

Moon 110206-06-10 12:13 G 41973134.94 41973135.01 41973135.07 0.2659 0.2146 *

Jupiter 110207-04-06 00:13 G 41973434.46 41973434.51 41973434.57 0.0505 0.0475

Jupiter 110207-07-05 08:51 G 41973524.75 41973524.87 41973525.00 0.0508 0.0370

Earth 110208-12-16 02:37 G 41974054.45 41974054.61 41974054.77 0.2677 0.0240

Moon 110208-12-16 03:20 G 41974054.49 41974054.64 41974054.80 0.2683 0.0244 *

Mars 110210-07-18 07:25 G 41974633.69 41974633.81 41974633.92 0.1755 0.0121

Mars 110211-08-17 10:03 G 41975028.76 41975028.92 41975029.07 0.1793 0.0776

Saturn 110212-03-20 08:37 G 41975244.83 41975244.86 41975244.89 0.0296 0.0287

Saturn 110212-06-16 21:06 G 41975333.26 41975333.38 41975333.51 0.0296 0.0109

Saturn 110212-09-13 09:49 G 41975421.78 41975421.91 41975422.04 0.0296 0.0069

Jupiter 110212-12-09 11:44 G 41975508.86 41975508.99 41975509.12 0.0521 0.0094

Saturn 110212-12-10 22:03 G 41975510.35 41975510.42 41975510.50 0.0296 0.0245

Neptune 110214-05-21 03:49 G 41976036.63 41976036.66 41976036.71 0.0088 0.0083

Neptune 110214-08-17 05:15 G 41976124.66 41976124.72 41976124.79 0.0088 0.0076

Neptune 110214-11-13 06:42 G 41976212.70 41976212.78 41976212.87 0.0088 0.0069

Neptune 110215-02-09 07:54 G 41976300.75 41976300.83 41976300.94 0.0088 0.0063

Neptune 110215-05-08 09:20 G 41976388.80 41976388.89 41976389.00 0.0088 0.0056

Neptune 110215-08-04 10:46 G 41976476.85 41976476.95 41976477.07 0.0088 0.0049

Neptune 110215-10-31 12:13 G 41976564.90 41976565.01 41976565.13 0.0088 0.0042

Neptune 110216-01-27 13:39 G 41976652.95 41976653.07 41976653.19 0.0088 0.0035

Neptune 110216-04-24 14:51 G 41976741.00 41976741.12 41976741.25 0.0088 0.0029

Neptune 110216-07-21 16:18 G 41976829.05 41976829.18 41976829.31 0.0088 0.0022

Neptune 110216-10-17 17:44 G 41976917.11 41976917.24 41976917.37 0.0088 0.0015

Neptune 110217-01-13 18:56 G 41977005.16 41977005.29 41977005.43 0.0088 0.0009

Neptune 110217-04-11 20:22 G 41977093.22 41977093.35 41977093.49 0.0088 0.0002

Neptune 110217-07-08 21:34 G 41977181.27 41977181.40 41977181.54 0.0088 0.0006

Neptune 110217-10-04 23:01 G 41977269.33 41977269.46 41977269.60 0.0088 0.0012

Neptune 110218-01-01 00:27 G 41977357.39 41977357.52 41977357.65 0.0088 0.0018

Neptune 110218-03-30 01:39 G 41977445.44 41977445.57 41977445.70 0.0088 0.0025

Neptune 110218-06-26 02:51 G 41977533.50 41977533.62 41977533.75 0.0088 0.0032

Neptune 110218-09-22 04:18 G 41977621.56 41977621.68 41977621.80 0.0088 0.0038

Neptune 110218-12-19 05:30 G 41977709.62 41977709.73 41977709.85 0.0088 0.0045

Neptune 110219-03-17 06:56 G 41977797.68 41977797.79 41977797.90 0.0088 0.0051

Jupiter 110219-04-23 04:46 G 41977834.53 41977834.70 41977834.87 0.0507 0.0135

Earth 110219-06-13 04:46 G 41977885.60 41977885.70 41977885.81 0.2656 0.0661

Moon 110219-06-13 05:15 G 41977885.61 41977885.72 41977885.83 0.2651 0.0582 *

Neptune 110219-06-13 08:08 G 41977885.74 41977885.84 41977885.94 0.0088 0.0058 *

Neptune 110219-09-09 09:20 G 41977973.81 41977973.89 41977973.99 0.0088 0.0065

Neptune 110219-12-06 10:46 G 41978061.88 41978061.95 41978062.03 0.0088 0.0071

Mars 110219-12-08 17:30 G 41978064.13 41978064.23 41978064.33 0.1764 0.0869

Neptune 110220-03-03 11:58 G 41978149.95 41978150.00 41978150.07 0.0088 0.0078

Neptune 110220-05-30 13:25 G 41978238.03 41978238.06 41978238.10 0.0088 0.0084

Mars 110221-01-06 05:58 G 41978458.60 41978458.75 41978458.90 0.1784 0.0774

Jupiter 110224-09-27 16:18 G 41979819.06 41979819.18 41979819.29 0.0522 0.0246

Jupiter 110224-12-25 22:18 G 41979908.35 41979908.43 41979908.52 0.0519 0.0390

Saturn 110227-01-05 16:03 G 41980649.09 41980649.17 41980649.28 0.0264 0.0225

Saturn 110227-04-04 12:27 G 41980737.84 41980738.02 41980738.20 0.0264 0.0046

Saturn 110227-07-02 08:37 G 41980826.71 41980826.86 41980827.03 0.0264 0.0136

Mars 110229-04-30 03:34 G 41981494.61 41981494.65 41981494.69 0.1772 0.1650

Jupiter 110231-02-09 02:37 G 41982144.43 41982144.61 41982144.78 0.0506 0.0072

Mars 110231-04-05 10:32 G 41982199.88 41982199.94 41982200.00 0.1739 0.1477

Moon 110232-06-14 21:49 G 41982636.31 41982636.41 41982636.51 0.2649 0.0888

Earth 110232-06-14 22:18 G 41982636.33 41982636.43 41982636.53 0.2655 0.0957 *

Jupiter 110236-07-16 20:22 G 41984129.27 41984129.35 41984129.43 0.0523 0.0405

Jupiter 110236-10-14 02:37 G 41984218.50 41984218.61 41984218.73 0.0519 0.0239

Uranus 110237-11-05 22:46 G 41984606.36 41984606.45 41984606.56 0.0139 0.0116

Uranus 110238-02-02 05:58 G 41984694.61 41984694.75 41984694.90 0.0138 0.0089

Venus 110238-03-24 04:46 G 41984744.61 41984744.70 41984744.78 0.3683 0.2075

Uranus 110238-05-01 13:10 G 41984782.89 41984783.05 41984783.22 0.0138 0.0063

Uranus 110238-07-28 20:37 G 41984871.18 41984871.36 41984871.54 0.0138 0.0036

Uranus 110238-10-25 03:49 G 41984959.47 41984959.66 41984959.85 0.0138 0.0010

Uranus 110239-01-21 11:01 G 41985047.78 41985047.96 41985048.15 0.0138 0.0017

Uranus 110239-04-19 18:13 G 41985136.09 41985136.26 41985136.45 0.0138 0.0044

Uranus 110239-07-17 01:54 G 41985224.42 41985224.58 41985224.74 0.0138 0.0070

Uranus 110239-10-13 09:06 G 41985312.75 41985312.88 41985313.02 0.0138 0.0097

Uranus 110240-01-09 16:32 G 41985401.12 41985401.19 41985401.28 0.0138 0.0124

Mars 110240-08-25 21:06 G 41985630.27 41985630.38 41985630.48 0.1747 0.0751

Saturn 110241-11-03 21:34 G 41986065.29 41986065.40 41986065.50 0.0296 0.0182

Saturn 110242-01-31 10:03 G 41986153.79 41986153.92 41986154.06 0.0296 0.0009

Saturn 110242-04-29 22:32 G 41986242.34 41986242.44 41986242.55 0.0296 0.0173

Jupiter 110242-11-28 00:42 G 41986454.38 41986454.53 41986454.68 0.0506 0.0270

Venus 110243-10-07 20:51 G 41986768.26 41986768.37 41986768.47 0.3680 0.0354

Venus 110245-04-24 12:42 G 41987332.91 41987333.03 41987333.16 0.3694 0.2102

Moon 110245-06-17 14:51 G 41987387.08 41987387.12 41987387.16 0.2656 0.2443

Earth 110245-06-17 15:34 G 41987387.12 41987387.15 41987387.18 0.2653 0.2551 *

Jupiter 110248-08-02 06:56 G 41988528.66 41988528.79 41988528.92 0.0520 0.0081

Venus 110249-04-22 12:42 G 41988791.94 41988792.03 41988792.13 0.3676 0.1349

Mars 110250-01-16 07:10 G 41989060.69 41989060.80 41989060.92 0.1755 0.0066

Venus 110250-11-08 20:37 G 41989357.27 41989357.36 41989357.45 0.3699 0.2934

Mars 110251-02-15 10:46 G 41989455.81 41989455.95 41989456.09 0.1794 0.0951

Earth 110252-06-10 16:18 G 41989937.10 41989937.18 41989937.25 0.2658 0.1944

Moon 110252-06-10 16:32 G 41989937.11 41989937.19 41989937.26 0.2651 0.1969 *

Jupiter 110254-09-15 22:46 G 41990764.39 41990764.45 41990764.52 0.0505 0.0467

Venus 110254-11-06 04:32 G 41990815.63 41990815.69 41990815.75 0.3673 0.2998

Jupiter 110254-12-15 07:25 G 41990854.70 41990854.81 41990854.94 0.0508 0.0379

Earth 110254-12-17 09:20 G 41990856.74 41990856.89 41990857.05 0.2677 0.0488

Moon 110254-12-17 11:01 G 41990856.80 41990856.96 41990857.11 0.2673 0.0680 *

Saturn 110256-08-21 10:32 G 41991469.77 41991469.94 41991470.11 0.0264 0.0108

Saturn 110256-11-18 06:56 G 41991558.61 41991558.79 41991558.97 0.0264 0.0073

Saturn 110257-02-15 03:20 G 41991647.60 41991647.64 41991647.69 0.0264 0.0255

Mars 110259-06-08 17:30 G 41992491.12 41992491.23 41992491.33 0.1763 0.0774

Jupiter 110260-05-21 10:32 G 41992838.81 41992838.94 41992839.07 0.0521 0.0088

Mars 110260-07-07 06:56 G 41992885.63 41992885.79 41992885.95 0.1784 0.0594

Moon 110265-06-13 09:06 G 41994687.77 41994687.88 41994687.99 0.2653 0.0376

Earth 110265-06-13 09:34 G 41994687.80 41994687.90 41994688.01 0.2656 0.0325 *

Jupiter 110266-10-03 04:46 G 41995164.53 41995164.70 41995164.87 0.0507 0.0164

Mars 110268-10-29 03:34 G 41995921.60 41995921.65 41995921.70 0.1772 0.1560

Mars 110270-10-04 10:32 G 41996626.89 41996626.94 41996626.99 0.1739 0.1573

Saturn 110271-03-23 23:44 G 41996797.41 41996797.49 41996797.57 0.0296 0.0229

Saturn 110271-06-20 12:27 G 41996885.89 41996886.02 41996886.15 0.0296 0.0051

Saturn 110271-09-17 00:56 G 41996974.42 41996974.54 41996974.66 0.0296 0.0126

Jupiter 110272-03-09 14:51 G 41997149.00 41997149.12 41997149.23 0.0522 0.0245

Jupiter 110272-06-06 20:51 G 41997238.29 41997238.37 41997238.46 0.0519 0.0391

Moon 110278-06-16 02:37 G 41999438.51 41999438.61 41999438.70 0.2658 0.1156

Earth 110278-06-16 03:06 G 41999438.53 41999438.63 41999438.72 0.2654 0.1301 *

Jupiter 110278-07-22 00:56 G 41999474.36 41999474.54 41999474.71 0.0506 0.0068

Mars 110280-02-24 20:51 G 42000057.27 42000057.37 42000057.47 0.1747 0.0837

Uranus 110280-11-08 17:44 G 42000315.23 42000315.24 42000315.28 0.0139 0.0137

Uranus 110281-02-04 21:34 G 42000403.33 42000403.40 42000403.48 0.0139 0.0116

Uranus 110281-05-04 01:10 G 42000491.46 42000491.55 42000491.65 0.0140 0.0097

Uranus 110281-07-31 04:46 G 42000579.59 42000579.70 42000579.81 0.0140 0.0077

Uranus 110281-10-27 08:22 G 42000667.73 42000667.85 42000667.97 0.0140 0.0057

Uranus 110282-01-23 11:58 G 42000755.87 42000756.00 42000756.13 0.0140 0.0037

Uranus 110282-04-21 15:20 G 42000844.01 42000844.14 42000844.28 0.0140 0.0018

Uranus 110282-07-18 18:56 G 42000932.16 42000932.29 42000932.43 0.0140 0.0003

Uranus 110282-10-14 22:18 G 42001020.30 42001020.43 42001020.57 0.0140 0.0023

Uranus 110283-01-11 01:54 G 42001108.46 42001108.58 42001108.71 0.0140 0.0042

Uranus 110283-04-09 05:15 G 42001196.61 42001196.72 42001196.85 0.0140 0.0063

Uranus 110283-07-06 08:51 G 42001284.77 42001284.87 42001284.98 0.0140 0.0082

Uranus 110283-10-02 12:13 G 42001372.93 42001373.01 42001373.11 0.0140 0.0102

Jupiter 110283-12-27 19:10 G 42001459.22 42001459.30 42001459.38 0.0523 0.0398

Uranus 110283-12-29 15:49 G 42001461.10 42001461.16 42001461.23 0.0140 0.0121

Jupiter 110284-03-26 01:39 G 42001548.46 42001548.57 42001548.68 0.0520 0.0246

Uranus 110284-03-26 19:25 G 42001549.31 42001549.31 42001549.32 0.0140 0.0140

Saturn 110286-01-08 10:46 G 42002201.80 42002201.95 42002202.10 0.0264 0.0153

Saturn 110286-04-07 06:56 G 42002290.61 42002290.79 42002290.98 0.0264 0.0027

Saturn 110286-07-05 03:20 G 42002379.53 42002379.64 42002379.76 0.0264 0.0208

Earth 110287-12-15 08:22 G 42002907.79 42002907.85 42002907.90 0.2675 0.2503

Moon 110287-12-15 09:06 G 42002907.82 42002907.88 42002907.94 0.2670 0.2453 *

Venus 110289-04-14 10:18 G 42003393.88 42003393.93 42003393.97 0.3686 0.3252

Mars 110289-07-17 07:10 G 42003487.69 42003487.80 42003487.92 0.1755 0.0107

Jupiter 110290-05-09 22:46 G 42003784.30 42003784.45 42003784.60 0.0505 0.0269

Mars 110290-08-16 11:44 G 42003882.86 42003882.99 42003883.12 0.1794 0.1142

Pluto 110292-03-13 16:46 G 42004458.15 42004458.20 42004458.29 0.0085 0.0071

Pluto 110292-06-09 18:27 G 42004546.16 42004546.27 42004546.37 0.0085 0.0052

Pluto 110292-09-05 19:25 G 42004634.20 42004634.31 42004634.44 0.0084 0.0034

Pluto 110292-12-02 20:37 G 42004722.24 42004722.36 42004722.50 0.0084 0.0016

Pluto 110293-02-28 22:03 G 42004810.28 42004810.42 42004810.55 0.0084 0.0004

Pluto 110293-05-27 23:01 G 42004898.34 42004898.46 42004898.59 0.0084 0.0021

Pluto 110293-08-24 00:13 G 42004986.40 42004986.51 42004986.63 0.0084 0.0039

Pluto 110293-11-20 01:25 G 42005074.47 42005074.56 42005074.66 0.0084 0.0057

Pluto 110294-02-16 02:22 G 42005162.56 42005162.60 42005162.67 0.0084 0.0075

Venus 110294-10-29 02:22 G 42005417.50 42005417.60 42005417.69 0.3682 0.1497

Jupiter 110296-01-13 05:58 G 42005858.63 42005858.75 42005858.88 0.0520 0.0093

Moon 110298-06-11 20:22 G 42006739.27 42006739.35 42006739.43 0.2657 0.1763

Earth 110298-06-11 21:06 G 42006739.29 42006739.38 42006739.46 0.2657 0.1604 *

Neptune 110298-07-18 12:56 G 42006776.02 42006776.04 42006776.09 0.0089 0.0088

Neptune 110298-10-14 16:32 G 42006864.11 42006864.19 42006864.29 0.0089 0.0078

Mars 110298-12-07 17:30 G 42006918.12 42006918.23 42006918.34 0.1763 0.0674

Neptune 110299-01-10 19:39 G 42006952.22 42006952.32 42006952.47 0.0089 0.0069

Neptune 110299-04-08 23:15 G 42007040.35 42007040.47 42007040.63 0.0089 0.0059

Neptune 110299-07-06 02:51 G 42007128.47 42007128.62 42007128.79 0.0089 0.0049

Neptune 110299-10-02 06:27 G 42007216.61 42007216.77 42007216.95 0.0089 0.0039

Neptune 110299-12-29 10:03 G 42007304.75 42007304.92 42007305.11 0.0089 0.0029

Mars 110300-01-06 07:25 G 42007312.65 42007312.81 42007312.98 0.1784 0.0439

Neptune 110300-03-27 13:39 G 42007392.89 42007393.07 42007393.26 0.0089 0.0019

Venus 110300-05-14 18:27 G 42007441.16 42007441.27 42007441.37 0.3679 0.0247

Neptune 110300-06-23 17:15 G 42007481.03 42007481.22 42007481.41 0.0089 0.0009

Neptune 110300-09-19 20:51 G 42007569.18 42007569.37 42007569.56 0.0089 0.0001

Saturn 110300-11-07 12:42 G 42007617.91 42007618.03 42007618.15 0.0296 0.0126

Neptune 110300-12-17 00:27 G 42007657.33 42007657.52 42007657.71 0.0089 0.0011

Moon 110300-12-18 15:20 G 42007659.00 42007659.14 42007659.29 0.2671 0.1193

Earth 110300-12-18 16:18 G 42007659.04 42007659.18 42007659.32 0.2677 0.1222 *

Saturn 110301-02-04 01:10 G 42007706.42 42007706.55 42007706.68 0.0296 0.0053

Neptune 110301-03-15 03:49 G 42007745.48 42007745.66 42007745.85 0.0089 0.0022

Saturn 110301-05-03 13:39 G 42007794.99 42007795.07 42007795.16 0.0296 0.0228

Neptune 110301-06-11 07:25 G 42007833.64 42007833.81 42007833.99 0.0089 0.0032

Neptune 110301-09-07 11:01 G 42007921.79 42007921.96 42007922.13 0.0089 0.0042

Venus 110301-11-30 14:37 G 42008005.96 42008006.11 42008006.26 0.3695 0.0570

Neptune 110301-12-04 14:37 G 42008009.96 42008010.11 42008010.27 0.0089 0.0052

Jupiter 110302-02-26 21:06 G 42008094.31 42008094.38 42008094.45 0.0505 0.0465

Neptune 110302-03-02 18:13 G 42008098.13 42008098.26 42008098.40 0.0089 0.0062

Jupiter 110302-05-28 05:30 G 42008184.62 42008184.73 42008184.86 0.0508 0.0381

Neptune 110302-05-29 21:20 G 42008186.30 42008186.39 42008186.53 0.0089 0.0073

Neptune 110302-08-26 00:56 G 42008274.49 42008274.54 42008274.64 0.0089 0.0083

Venus 110305-11-28 10:18 G 42009464.84 42009464.93 42009465.02 0.3675 0.1903

Jupiter 110307-11-02 10:18 G 42010168.80 42010168.93 42010169.06 0.0521 0.0066

Mars 110308-04-30 03:34 G 42010348.58 42010348.65 42010348.71 0.1772 0.1468

Mars 110310-04-05 10:32 G 42011053.91 42011053.94 42011053.97 0.1738 0.1664

Venus 110311-06-14 02:08 G 42011488.56 42011488.59 42011488.61 0.3672 0.3543

Moon 110311-06-15 14:08 G 42011489.98 42011490.09 42011490.20 0.2661 0.0069

Earth 110311-06-15 14:22 G 42011489.99 42011490.10 42011490.21 0.2656 0.0068 *

Jupiter 110314-03-16 03:34 G 42012494.48 42012494.65 42012494.82 0.0507 0.0175

Saturn 110315-05-29 08:22 G 42012933.75 42012933.85 42012933.96 0.0264 0.0218

Saturn 110315-08-26 04:32 G 42013022.51 42013022.69 42013022.88 0.0264 0.0040

Saturn 110315-11-23 00:56 G 42013111.39 42013111.54 42013111.70 0.0264 0.0142

Jupiter 110319-08-21 13:54 G 42014478.96 42014479.08 42014479.19 0.0522 0.0234

Mars 110319-08-26 20:51 G 42014484.28 42014484.37 42014484.47 0.1747 0.0934

Jupiter 110319-11-18 19:54 G 42014568.25 42014568.33 42014568.41 0.0519 0.0400

Uranus 110321-08-30 23:30 G 42015219.44 42015219.48 42015219.53 0.0139 0.0133

Uranus 110321-11-27 06:42 G 42015307.67 42015307.78 42015307.90 0.0139 0.0107

Uranus 110322-02-23 13:54 G 42015395.93 42015396.08 42015396.23 0.0138 0.0080

Uranus 110322-05-22 21:06 G 42015484.21 42015484.38 42015484.56 0.0138 0.0054

Uranus 110322-08-19 04:32 G 42015572.50 42015572.69 42015572.87 0.0138 0.0027

Uranus 110322-11-15 11:44 G 42015660.80 42015660.99 42015661.18 0.0138 0.0002

Uranus 110323-02-11 18:56 G 42015749.11 42015749.29 42015749.48 0.0138 0.0027

Uranus 110323-05-11 02:22 G 42015837.43 42015837.60 42015837.78 0.0138 0.0053

Uranus 110323-08-07 09:34 G 42015925.76 42015925.90 42015926.07 0.0138 0.0080

Uranus 110323-11-03 17:01 G 42016014.10 42016014.21 42016014.34 0.0138 0.0107

Uranus 110324-01-31 00:13 G 42016102.49 42016102.51 42016102.57 0.0138 0.0134

Earth 110324-06-17 07:54 G 42016240.74 42016240.83 42016240.91 0.2654 0.1634

Moon 110324-06-17 08:22 G 42016240.76 42016240.85 42016240.93 0.2659 0.1688 *

Jupiter 110326-01-02 00:56 G 42016804.36 42016804.54 42016804.72 0.0506 0.0036

Mars 110329-01-16 07:10 G 42017914.69 42017914.80 42017914.92 0.1755 0.0187

Mars 110330-02-15 12:42 G 42018309.92 42018310.03 42018310.14 0.1794 0.1319

Saturn 110330-03-27 14:37 G 42018350.01 42018350.11 42018350.22 0.0296 0.0178

Saturn 110330-06-24 03:20 G 42018438.50 42018438.64 42018438.77 0.0296 0.0007

Saturn 110330-09-20 15:49 G 42018527.05 42018527.16 42018527.26 0.0296 0.0177

Jupiter 110331-06-09 17:58 G 42018789.16 42018789.25 42018789.33 0.0523 0.0394

Jupiter 110331-09-07 00:27 G 42018878.40 42018878.52 42018878.63 0.0520 0.0249

Moon 110333-12-16 13:25 G 42019709.97 42019710.06 42019710.15 0.2672 0.2130

Earth 110333-12-16 15:06 G 42019710.01 42019710.13 42019710.24 0.2676 0.1796 *

Jupiter 110337-10-20 21:20 G 42021114.23 42021114.39 42021114.54 0.0505 0.0262

Mars 110338-06-08 17:15 G 42021345.12 42021345.22 42021345.33 0.1763 0.0589

Mars 110339-07-08 08:37 G 42021739.69 42021739.86 42021740.02 0.1785 0.0254

Jupiter 110343-06-26 05:01 G 42023188.58 42023188.71 42023188.84 0.0521 0.0101

Moon 110344-06-13 01:39 G 42023541.48 42023541.57 42023541.67 0.2664 0.1239

Earth 110344-06-13 01:39 G 42023541.48 42023541.57 42023541.67 0.2657 0.1271 *

Saturn 110344-10-15 08:37 G 42023665.85 42023665.86 42023665.89 0.0265 0.0263

Saturn 110345-01-12 04:46 G 42023754.53 42023754.70 42023754.88 0.0265 0.0084

Saturn 110345-04-11 00:56 G 42023843.37 42023843.54 42023843.72 0.0265 0.0097

Venus 110345-11-20 07:54 G 42024066.76 42024066.83 42024066.90 0.3685 0.2660

Moon 110346-12-19 21:34 G 42024461.29 42024461.40 42024461.52 0.2682 0.1817

Earth 110346-12-19 23:01 G 42024461.35 42024461.46 42024461.57 0.2678 0.1945 *

Mars 110347-10-30 03:34 G 42024775.58 42024775.65 42024775.72 0.1771 0.1363

Mars 110348-11-27 04:46 G 42025169.69 42025169.70 42025169.71 0.1775 0.1767

Jupiter 110349-08-08 19:10 G 42025424.24 42025424.30 42025424.38 0.0505 0.0461

Jupiter 110349-11-07 03:49 G 42025514.54 42025514.66 42025514.78 0.0508 0.0382

Venus 110351-06-05 23:58 G 42026090.40 42026090.50 42026090.60 0.3681 0.0919

Jupiter 110355-04-14 09:20 G 42027498.76 42027498.89 42027499.02 0.0521 0.0053

Venus 110356-12-19 16:03 G 42028114.06 42028114.17 42028114.27 0.3678 0.0800

Earth 110357-06-15 19:10 G 42028292.19 42028292.30 42028292.41 0.2655 0.0362

Moon 110357-06-15 19:54 G 42028292.22 42028292.33 42028292.44 0.2657 0.0440 *

Venus 110358-07-07 16:18 G 42028679.04 42028679.18 42028679.33 0.3696 0.0987

Mars 110359-02-24 20:51 G 42028911.28 42028911.37 42028911.47 0.1746 0.1034

Saturn 110359-08-14 14:51 G 42029082.06 42029082.12 42029082.19 0.0296 0.0251

Saturn 110359-11-11 03:34 G 42029170.52 42029170.65 42029170.78 0.0296 0.0072

Saturn 110360-02-07 16:03 G 42029259.05 42029259.17 42029259.30 0.0296 0.0105

Saturn 110360-05-06 04:32 G 42029347.65 42029347.69 42029347.73 0.0296 0.0279

Jupiter 110361-08-26 01:39 G 42029824.40 42029824.57 42029824.74 0.0507 0.0178

Venus 110362-07-05 07:54 G 42030137.75 42030137.83 42030137.90 0.3674 0.2455

Uranus 110364-11-30 01:39 G 42031016.52 42031016.57 42031016.62 0.0139 0.0130

Uranus 110365-02-26 05:15 G 42031104.64 42031104.72 42031104.80 0.0139 0.0110

Uranus 110365-05-25 08:37 G 42031192.77 42031192.86 42031192.97 0.0139 0.0090

Uranus 110365-08-21 12:13 G 42031280.90 42031281.01 42031281.13 0.0139 0.0071

Uranus 110365-11-17 15:49 G 42031369.04 42031369.16 42031369.29 0.0140 0.0051

Uranus 110366-02-13 19:25 G 42031457.18 42031457.31 42031457.44 0.0140 0.0031

Uranus 110366-05-12 23:01 G 42031545.33 42031545.46 42031545.59 0.0140 0.0011

Uranus 110366-08-09 02:37 G 42031633.47 42031633.61 42031633.74 0.0140 0.0009

Uranus 110366-11-05 05:58 G 42031721.62 42031721.75 42031721.88 0.0140 0.0029

Jupiter 110367-01-31 13:25 G 42031808.94 42031809.06 42031809.18 0.0522 0.0212

Uranus 110367-02-01 09:34 G 42031809.77 42031809.90 42031810.02 0.0140 0.0048

Uranus 110367-04-30 12:56 G 42031897.93 42031898.04 42031898.16 0.0140 0.0068

Jupiter 110367-04-30 19:25 G 42031898.24 42031898.31 42031898.39 0.0519 0.0422

Uranus 110367-07-27 16:32 G 42031986.09 42031986.19 42031986.29 0.0140 0.0087

Uranus 110367-10-23 19:54 G 42032074.25 42032074.33 42032074.42 0.0140 0.0107

Uranus 110368-01-19 23:30 G 42032162.43 42032162.48 42032162.54 0.0140 0.0127

Mars 110368-07-17 07:10 G 42032341.69 42032341.80 42032341.91 0.1754 0.0277

Mars 110369-08-16 13:25 G 42032736.97 42032737.06 42032737.15 0.1795 0.1489

Earth 110370-06-18 12:27 G 42033042.95 42033043.02 42033043.10 0.2654 0.1967

Moon 110370-06-18 12:56 G 42033042.98 42033043.04 42033043.11 0.2650 0.2095 *

Jupiter 110373-06-13 23:44 G 42034134.31 42034134.49 42034134.67 0.0506 0.0024

Saturn 110374-06-01 02:08 G 42034486.44 42034486.59 42034486.74 0.0265 0.0154

Saturn 110374-08-28 22:18 G 42034575.25 42034575.43 42034575.62 0.0264 0.0026

Saturn 110374-11-25 18:42 G 42034664.17 42034664.28 42034664.40 0.0264 0.0208

Earth 110377-06-11 13:10 G 42035593.02 42035593.05 42035593.07 0.2658 0.2561

Moon 110377-06-11 13:25 G 42035593.04 42035593.06 42035593.09 0.2664 0.2573 *

Mars 110377-12-07 17:15 G 42035772.11 42035772.22 42035772.33 0.1763 0.0492

Jupiter 110378-11-19 17:01 G 42036119.12 42036119.21 42036119.30 0.0523 0.0382

Mars 110379-01-06 09:34 G 42036166.73 42036166.90 42036167.07 0.1785 0.0066

Neptune 110379-02-16 02:51 G 42036207.58 42036207.62 42036207.68 0.0088 0.0082

Jupiter 110379-02-16 23:30 G 42036208.37 42036208.48 42036208.59 0.0519 0.0260

Neptune 110379-05-15 04:18 G 42036295.62 42036295.68 42036295.76 0.0088 0.0075

Neptune 110379-08-11 05:44 G 42036383.66 42036383.74 42036383.83 0.0088 0.0068

Neptune 110379-11-07 07:10 G 42036471.71 42036471.80 42036471.90 0.0088 0.0061

Moon 110379-12-17 21:06 G 42036512.24 42036512.38 42036512.52 0.2682 0.1135

Earth 110379-12-17 21:49 G 42036512.26 42036512.41 42036512.55 0.2676 0.1077 *

Neptune 110380-02-03 08:22 G 42036559.76 42036559.85 42036559.97 0.0088 0.0055

Neptune 110380-05-01 09:49 G 42036647.81 42036647.91 42036648.03 0.0088 0.0048

Neptune 110380-07-28 11:15 G 42036735.86 42036735.97 42036736.10 0.0088 0.0041

Neptune 110380-10-24 12:42 G 42036823.91 42036824.03 42036824.16 0.0088 0.0034

Neptune 110381-01-20 14:08 G 42036911.96 42036912.09 42036912.22 0.0088 0.0027

Neptune 110381-04-18 15:20 G 42037000.02 42037000.14 42037000.28 0.0088 0.0021

Neptune 110381-07-15 16:46 G 42037088.07 42037088.20 42037088.34 0.0088 0.0014

Neptune 110381-10-11 18:13 G 42037176.13 42037176.26 42037176.39 0.0088 0.0007

Neptune 110382-01-07 19:39 G 42037264.18 42037264.32 42037264.45 0.0088 0.0003

Neptune 110382-04-05 20:51 G 42037352.24 42037352.37 42037352.51 0.0088 0.0006

Neptune 110382-07-02 22:18 G 42037440.29 42037440.43 42037440.56 0.0088 0.0013

Neptune 110382-09-28 23:30 G 42037528.35 42037528.48 42037528.61 0.0088 0.0020

Neptune 110382-12-26 00:56 G 42037616.41 42037616.54 42037616.66 0.0088 0.0026

Neptune 110383-03-24 02:08 G 42037704.47   42037704.59   42037704.72 0.0088 0.0033

Neptune 110383-06-20 03:20 G 42037792.53   42037792.64   42037792.77 0.0088 0.0040

Neptune 110383-09-16 04:46 G 42037880.59   42037880.70   42037880.81 0.0088 0.0046

Neptune 110383-12-13 05:58 G 42037968.65   42037968.75   42037968.86 0.0088 0.0053

Neptune 110384-03-10 07:25 G 42038056.71   42038056.81   42038056.91 0.0088 0.0059

Neptune 110384-06-06 08:37 G 42038144.78   42038144.86   42038144.95 0.0088 0.0066

Neptune 110384-09-02 09:49 G 42038232.85   42038232.91   42038232.99 0.0088 0.0073

Neptune 110384-11-29 11:15 G 42038320.92   42038320.97   42038321.03 0.0088 0.0079

Neptune 110385-02-25 12:13 G 42038409.00   42038409.01   42038409.06 0.0088 0.0086

Jupiter 110385-04-01 21:20 G 42038444.23   42038444.39   42038444.55 0.0506 0.0230

Mars   110387-04-30 03:20 G 42039202.57   42039202.64   42039202.72 0.1771 0.1280

Mars   110388-05-28 05:30 G 42039596.66   42039596.73   42039596.81 0.1775 0.1599

Saturn   110389-03-30 05:15 G 42039902.60   42039902.72   42039902.84 0.0296 0.0127

Saturn   110389-06-26 17:58 G 42039991.12   42039991.25   42039991.38 0.0296 0.0051

Saturn   110389-09-23 06:27 G 42040079.69   42040079.77   42040079.85 0.0296 0.0227

Earth   110390-06-14 06:27 G 42040343.67   42040343.77   42040343.88 0.2657 0.0926

Moon   110390-06-14 07:10 G 42040343.70   42040343.80   42040343.91 0.2656 0.0750 *

Jupiter 110390-12-06 03:49 G 42040518.53   42040518.66   42040518.79 0.0520 0.0107

Earth   110392-12-20 05:44 G 42041263.73   42041263.74   42041263.75 0.2678 0.2672

Jupiter 110397-01-18 17:58 G 42042754.18   42042754.25   42042754.33 0.0504 0.0450

Jupiter 110397-04-19 02:22 G 42042844.49   42042844.60   42042844.72 0.0508 0.0391

Mars   110398-08-25 20:51 G 42043338.28   42043338.37   42043338.46 0.1746 0.1120

Venus   110402-06-27 05:30 G 42044739.64   42044739.73   42044739.81 0.3684 0.2076

Jupiter 110402-09-24 08:08 G 42044828.72   42044828.84   42044828.97 0.0522 0.0049

Earth   110403-06-16 23:58 G 42045094.40   42045094.50   42045094.61 0.2655 0.0698

Moon   110403-06-17 00:13 G 42045094.41   42045094.51   42045094.62 0.2649 0.0687 *

Saturn   110403-10-19 02:22 G 42045218.48   42045218.60   42045218.73 0.0265 0.0198

Saturn   110404-01-15 22:32 G 42045307.26   42045307.44   42045307.63 0.0265 0.0019

Saturn   110404-04-13 18:56 G 42045396.15   42045396.29   42045396.44 0.0265 0.0163

Uranus   110405-09-20 06:27 G 42045920.71   42045920.77   42045920.85 0.0139 0.0127

Uranus 110405-12-17 13:39 G 42046008.95 42046009.07 42046009.20 0.0139 0.0101

Uranus 110406-03-15 20:51 G 42046097.22 42046097.37 42046097.54 0.0139 0.0074

Uranus 110406-06-12 04:18 G 42046185.50 42046185.68 42046185.86 0.0138 0.0048

Uranus 110406-09-08 11:30 G 42046273.80 42046273.98 42046274.17 0.0138 0.0021

Uranus 110406-12-05 18:56 G 42046362.10 42046362.29 42046362.48 0.0138 0.0006

Uranus 110407-03-04 02:08 G 42046450.41 42046450.59 42046450.78 0.0138 0.0033

Uranus 110407-05-31 09:34 G 42046538.73 42046538.90 42046539.07 0.0138 0.0059

Uranus 110407-08-27 16:46 G 42046627.06 42046627.20 42046627.36 0.0138 0.0086

Uranus 110407-11-24 00:13 G 42046715.41 42046715.51 42046715.63 0.0138 0.0113

Venus 110408-01-10 21:34 G 42046763.30 42046763.40 42046763.50 0.3680 0.0345

Mars 110408-01-16 07:10 G 42046768.69 42046768.80 42046768.91 0.1754 0.0377

Jupiter 110409-02-04 23:58 G 42047154.33 42047154.50 42047154.67 0.0507 0.0182

Mars 110409-02-14 14:22 G 42047164.05 42047164.10 42047164.16 0.1795 0.1685

Venus 110409-07-28 10:32 G 42047327.83 42047327.94 42047328.05 0.3693 0.2403

Venus 110413-07-26 13:25 G 42048786.97 42048787.06 42048787.16 0.3677 0.1353

Jupiter 110414-07-13 12:27 G 42049138.90 42049139.02 42049139.15 0.0522 0.0202

Jupiter 110414-10-10 18:42 G 42049228.21 42049228.28 42049228.35 0.0519 0.0433

Venus 110415-02-11 18:13 G 42049352.15 42049352.26 42049352.37 0.3698 0.2561

Moon 110416-06-18 16:46 G 42049845.14 42049845.20 42049845.25 0.2650 0.2250

Earth 110416-06-18 17:15 G 42049845.17 42049845.22 42049845.27 0.2654 0.2298 *

Mars 110417-06-07 17:15 G 42050199.11 42050199.22 42050199.34 0.1762 0.0398

Mars 110418-07-07 10:03 G 42050593.75 42050593.92 42050594.09 0.1785 0.0090

Saturn 110418-08-17 05:44 G 42050634.65 42050634.74 42050634.84 0.0295 0.0198

Saturn 110418-11-13 18:27 G 42050723.14 42050723.27 42050723.40 0.0296 0.0020

Venus 110419-02-09 05:15 G 42050810.67 42050810.72 42050810.78 0.3674 0.3000

Saturn 110419-02-10 06:56 G 42050811.68 42050811.79 42050811.90 0.0296 0.0156

Jupiter 110420-11-23 22:03 G 42051464.24 42051464.42 42051464.60 0.0506 0.0022

Earth 110423-06-12 17:58 G 42052395.19 42052395.25 42052395.30 0.2658 0.2222

Moon 110423-06-12 18:27 G 42052395.21 42052395.27 42052395.34 0.2656 0.2094 *

Earth 110425-12-18 04:32 G 42053314.53 42053314.69 42053314.85 0.2676 0.0363

Moon 110425-12-18 06:13 G 42053314.60 42053314.76 42053314.92 0.2679 0.0032 *

Jupiter 110426-05-01 16:32 G 42053449.10 42053449.19 42053449.29 0.0523 0.0361

Jupiter 110426-07-29 23:01 G 42053538.36 42053538.46 42053538.57 0.0519 0.0281

Mars 110426-10-29 03:20 G 42053629.56 42053629.64 42053629.73 0.1771 0.1181

Mars 110427-11-27 06:27 G 42054023.67 42054023.77 42054023.87 0.1776 0.1420

Jupiter 110432-09-11 20:08 G 42055774.18 42055774.34 42055774.50 0.0506 0.0220

Saturn 110433-06-03 19:39 G 42056039.15 42056039.32 42056039.50 0.0265 0.0089

Saturn 110433-08-31 16:03 G 42056128.00 42056128.17 42056128.35 0.0265 0.0092

Moon 110436-06-14 11:15 G 42057145.86 42057145.97 42057146.08 0.2649 0.0607

Earth 110436-06-14 11:15 G 42057145.87 42057145.97 42057146.08 0.2657 0.0589 *

Mars 110438-02-23 20:51 G 42057765.29 42057765.37 42057765.45 0.1746 0.1215

Jupiter 110438-05-18 02:51 G 42057848.50 42057848.62 42057848.75 0.0520 0.0119

Pluto 110442-11-09 13:54 G 42059485.06 42059485.08 42059485.16 0.0060 0.0058

Pluto 110443-02-05 15:49 G 42059573.05 42059573.16 42059573.29 0.0060 0.0048

Pluto 110443-05-04 16:46 G 42059661.08 42059661.20 42059661.38 0.0060 0.0039

Pluto 110443-07-31 18:27 G 42059749.11 42059749.27 42059749.46 0.0060 0.0029

Pluto 110443-10-27 19:54 G 42059837.15 42059837.33 42059837.53 0.0060 0.0020

Pluto 110444-01-23 21:20 G 42059925.20 42059925.39 42059925.59 0.0060 0.0010

Pluto 110444-04-20 22:46 G 42060013.26 42060013.45 42060013.65 0.0060 0.0002

Jupiter 110444-06-30 17:58 G 42060084.16 42060084.25 42060084.35 0.0505 0.0421

Pluto 110444-07-18 00:13 G 42060101.32 42060101.51 42060101.71 0.0060 0.0009

Jupiter 110444-09-29 02:37 G 42060174.51 42060174.61 42060174.71 0.0508 0.0423

Pluto 110444-10-14 01:25 G 42060189.38 42060189.56 42060189.76 0.0060 0.0019

Pluto 110445-01-10 02:37 G 42060277.46 42060277.61 42060277.80 0.0060 0.0029

Pluto 110445-04-08 04:18 G 42060365.54 42060365.68 42060365.84 0.0060 0.0038

Pluto 110445-07-05 05:15 G 42060453.63 42060453.72 42060453.86 0.0060 0.0049

Pluto 110445-10-01 06:27 G 42060541.75 42060541.77 42060541.85 0.0060 0.0059

Mars 110447-07-17 07:10 G 42061195.69 42061195.80 42061195.91 0.1754 0.0468

Saturn 110448-01-04 07:25 G 42061366.75 42061366.81 42061366.88 0.0295 0.0253

Saturn 110448-04-01 20:08 G 42061455.21 42061455.34 42061455.47 0.0296 0.0075

Saturn 110448-06-29 08:37 G 42061543.74 42061543.86 42061543.99 0.0296 0.0102

Saturn 110448-09-25 21:06 G 42061632.34 42061632.38 42061632.43 0.0296 0.0277

Uranus 110448-12-20 09:20 G 42061717.83 42061717.89 42061717.95 0.0139 0.0123

Uranus 110449-03-18 12:56 G 42061805.95 42061806.04 42061806.13 0.0139 0.0103

Uranus 110449-06-14 16:18 G 42061894.08 42061894.18 42061894.30 0.0139 0.0083

Moon 110449-06-17 04:03 G 42061896.57 42061896.67 42061896.77 0.2654 0.0932

Earth 110449-06-17 04:46 G 42061896.60 42061896.70 42061896.80 0.2655 0.1039 *

Uranus 110449-09-10 19:54 G 42061982.22 42061982.33 42061982.46 0.0139 0.0064

Uranus 110449-12-07 23:30 G 42062070.36 42062070.48 42062070.61 0.0139 0.0044

Uranus 110450-03-06 03:06 G 42062158.50 42062158.63 42062158.77 0.0140 0.0024

Jupiter 110450-03-06 07:10 G 42062158.67 42062158.80 42062158.93 0.0521 0.0038 *

Uranus 110450-06-02 06:42 G 42062246.64 42062246.78 42062246.91 0.0140 0.0004

Uranus 110450-08-29 10:18 G 42062334.79 42062334.93 42062335.06 0.0140 0.0016

Uranus 110450-11-25 13:39 G 42062422.94 42062423.07 42062423.20 0.0140 0.0035

Uranus 110451-02-21 17:15 G 42062511.10 42062511.22 42062511.34 0.0140 0.0055

Uranus 110451-05-20 20:37 G 42062599.25 42062599.36 42062599.48 0.0140 0.0075

Uranus 110451-08-17 00:13 G 42062687.41 42062687.51 42062687.61 0.0140 0.0094

Uranus 110451-11-13 03:34 G 42062775.58 42062775.65 42062775.73 0.0140 0.0114

Uranus 110452-02-09 06:56 G 42062863.76 42062863.79 42062863.84 0.0140 0.0133

Venus 110453-07-18 11:01 G 42063388.91 42063388.96 42063389.00 0.3686 0.3251

Jupiter 110456-07-17 22:46 G 42064484.28 42064484.45 42064484.61 0.0507 0.0192

Mars 110456-12-06 17:15 G 42064626.11 42064626.22 42064626.33 0.1763 0.0299

Mars 110458-01-05 11:15 G 42065020.80 42065020.97 42065021.13 0.1786 0.0289

Venus 110459-02-01 03:06 G 42065412.53 42065412.63 42065412.73 0.3683 0.1497

Jupiter 110461-12-23 11:15 G 42066468.85 42066468.97 42066469.10 0.0523 0.0196

Jupiter 110462-03-22 17:30 G 42066558.17 42066558.23 42066558.30 0.0519 0.0441

Moon 110462-06-19 21:34 G 42066647.37 42066647.40 42066647.43 0.2658 0.2538

Earth 110462-06-19 22:03 G 42066647.41 42066647.42 42066647.43 0.2653 0.2633 *

Saturn 110462-10-21 20:08 G 42066771.18 42066771.34 42066771.50 0.0265 0.0132

Saturn 110463-01-18 16:18 G 42066860.00 42066860.18 42066860.37 0.0265 0.0048

Neptune 110463-04-15 11:01 G 42066946.91 42066946.96 42066947.02 0.0089 0.0085

Saturn 110463-04-17 12:42 G 42066948.95 42066949.03 42066949.13 0.0265 0.0231

Neptune 110463-07-12 14:08 G 42067035.01 42067035.09 42067035.21 0.0089 0.0075

Neptune 110463-10-08 17:44 G 42067123.12 42067123.24 42067123.38 0.0089 0.0065

Neptune 110464-01-04 21:20 G 42067211.25 42067211.39 42067211.54 0.0089 0.0055

Neptune 110464-04-02 00:56 G 42067299.38 42067299.54 42067299.70 0.0089 0.0046

Neptune 110464-06-29 04:32 G 42067387.51 42067387.69 42067387.86 0.0089 0.0036

Venus 110464-08-16 19:10 G 42067436.19 42067436.30 42067436.40 0.3679 0.0226

Neptune 110464-09-25 07:39 G 42067475.65 42067475.82 42067476.02 0.0089 0.0027

Neptune 110464-12-22 11:15 G 42067563.79 42067563.97 42067564.17 0.0089 0.0017

Neptune 110465-03-20 14:51 G 42067651.94 42067652.12 42067652.32 0.0089 0.0007

Neptune 110465-06-16 18:27 G 42067740.08 42067740.27 42067740.46 0.0089 0.0004

Neptune 110465-09-12 22:03 G 42067828.23 42067828.42 42067828.61 0.0089 0.0014

Neptune 110465-12-10 01:25 G 42067916.39 42067916.56 42067916.75 0.0089 0.0024

Venus 110466-03-04 12:13 G 42068000.86 42068001.01 42068001.16 0.3694 0.0901

Neptune 110466-03-08 05:01 G 42068004.54 42068004.71 42068004.90 0.0089 0.0034

Mars 110466-04-29 03:34 G 42068056.56 42068056.65 42068056.74 0.1771 0.1081

Neptune 110466-06-04 08:22 G 42068092.70 42068092.85 42068093.03 0.0089 0.0045

Neptune 110466-08-31 11:58 G 42068180.86 42068181.00 42068181.17 0.0089 0.0055

Neptune 110466-11-27 15:34 G 42068269.03 42068269.15 42068269.30 0.0089 0.0065

Neptune 110467-02-23 19:10 G 42068357.21 42068357.30 42068357.42 0.0089 0.0075

Neptune 110467-05-22 22:46 G 42068445.41 42068445.45 42068445.53 0.0089 0.0085

Mars 110467-05-28 07:10 G 42068450.69 42068450.80 42068450.92 0.1776 0.1254

Jupiter 110468-05-05 20:22 G 42068794.17 42068794.35 42068794.53 0.0506 0.0016

Moon 110469-06-12 22:18 G 42069197.35 42069197.43 42069197.50 0.2653 0.1883

Earth 110469-06-12 22:46 G 42069197.37 42069197.45 42069197.52 0.2658 0.1878 *

Venus 110470-03-02 11:01 G 42069459.87 42069459.96 42069460.05 0.3676 0.1891

Earth 110471-12-19 11:15 G 42070116.81 42070116.97 42070117.13 0.2677 0.0377

Moon 110471-12-19 11:58 G 42070116.84 42070117.00 42070117.16 0.2671 0.0461 *

Jupiter 110473-10-11 15:34 G 42070779.06 42070779.15 42070779.25 0.0523 0.0352

Jupiter 110474-01-08 22:03 G 42070868.31 42070868.42 42070868.53 0.0520 0.0290

Venus 110475-09-16 02:51 G 42071483.60 42071483.62 42071483.64 0.3673 0.3537

Saturn 110477-08-19 21:06 G 42072187.26 42072187.38 42072187.50 0.0295 0.0140

Mars 110477-08-24 20:51 G 42072192.30 42072192.37 42072192.44 0.1746 0.1314

Saturn 110477-11-16 09:34 G 42072275.77 42072275.90 42072276.03 0.0295 0.0038

Saturn 110478-02-12 22:03 G 42072364.33 42072364.42 42072364.51 0.0295 0.0212

Jupiter 110480-02-22 18:13 G 42073104.10 42073104.26 42073104.43 0.0505 0.0218

Moon 110482-06-15 15:34 G 42073948.04 42073948.15 42073948.25 0.2656 0.0422

Earth 110482-06-15 16:03 G 42073948.07 42073948.17 42073948.28 0.2656 0.0256 *

Jupiter 110485-07-30 19:39 G 42075089.30 42075089.32 42075089.34 0.0524 0.0513

Jupiter 110485-10-28 02:22 G 42075178.47 42075178.60 42075178.72 0.0520 0.0137

Mars 110487-01-15 06:56 G 42075622.69 42075622.79 42075622.90 0.1754 0.0565

Uranus 110489-10-10 13:39 G 42076621.99 42076622.07 42076622.18 0.0139 0.0120

Uranus 110490-01-06 20:51 G 42076710.25 42076710.37 42076710.52 0.0139 0.0094

Uranus 110490-04-05 04:18 G 42076798.52 42076798.68 42076798.85 0.0138 0.0067

Uranus 110490-07-02 11:30 G 42076886.81 42076886.98 42076887.17 0.0138 0.0041

Uranus 110490-09-28 18:56 G 42076975.10 42076975.29 42076975.48 0.0138 0.0013

Uranus 110490-12-26 02:22 G 42077063.41 42077063.60 42077063.78 0.0138 0.0014

Uranus 110491-03-24 09:34 G 42077151.72 42077151.90 42077152.08 0.0138 0.0040

Uranus 110491-06-20 16:46 G 42077240.04 42077240.20 42077240.37 0.0138 0.0067

Uranus 110491-09-17 00:13 G 42077328.38 42077328.51 42077328.66 0.0138 0.0094

Jupiter 110491-12-11 16:32 G 42077414.10 42077414.19 42077414.30 0.0505 0.0413

Uranus 110491-12-14 07:25 G 42077416.74 42077416.81 42077416.92 0.0138 0.0121

Saturn 110492-03-09 17:15 G 42077503.11 42077503.22 42077503.34 0.0265 0.0202

Jupiter 110492-03-11 01:10 G 42077504.46 42077504.55 42077504.65 0.0508 0.0432

Saturn 110492-06-06 13:25 G 42077591.88 42077592.06 42077592.25 0.0265 0.0023

Saturn 110492-09-03 09:49 G 42077680.77 42077680.91 42077681.06 0.0265 0.0159

Moon 110495-06-18 09:20 G 42078698.80 42078698.89 42078698.98 0.2661 0.1404

Earth 110495-06-18 09:34 G 42078698.80 42078698.90 42078698.99 0.2654 0.1373 *

Mars 110496-06-06 17:15 G 42079053.11 42079053.22 42079053.33 0.1762 0.0204

Mars 110497-07-06 11:58 G 42079447.84 42079448.00 42079448.17 0.1786 0.0466

Jupiter 110497-08-16 06:13 G 42079488.63 42079488.76 42079488.89 0.0521 0.0029

Jupiter 110503-12-29 22:32 G 42081814.28 42081814.44 42081814.61 0.0507 0.0220

Moon 110504-12-17 10:03 G 42082167.87 42082167.92 42082167.98 0.2668 0.2498

Earth 110504-12-17 10:18 G 42082167.90 42082167.93 42082167.96 0.2675 0.2610 *

Mars 110505-10-29 03:20 G 42082483.55 42082483.64 42082483.74 0.1770 0.0991

Mars 110506-11-27 08:08 G 42082877.71 42082877.84 42082877.97 0.1776 0.1079

Saturn 110507-01-07 22:32 G 42082919.34 42082919.44 42082919.54 0.0295 0.0197

Saturn 110507-04-06 11:15 G 42083007.84 42083007.97 42083008.10 0.0295 0.0020

Saturn 110507-07-03 23:44 G 42083096.38 42083096.49 42083096.60 0.0295 0.0156

Jupiter 110509-06-05 10:18 G 42083798.81 42083798.93 42083799.05 0.0522 0.0188

Jupiter 110509-09-02 16:18 G 42083888.12 42083888.18 42083888.25 0.0519 0.0447

Venus 110510-02-23 08:37 G 42084061.79 42084061.86 42084061.93 0.3685 0.2676

Moon 110515-06-15 02:51 G 42085999.53 42085999.62 42085999.70 0.2660 0.1642

Earth 110515-06-15 03:34 G 42085999.56 42085999.65 42085999.73 0.2657 0.1533 *

Venus 110515-09-09 00:42 G 42086085.43 42086085.53 42086085.63 0.3682 0.0924

Jupiter 110515-10-17 19:10 G 42086124.11 42086124.30 42086124.48 0.0506 0.0015

Mars 110517-02-23 20:37 G 42086619.30 42086619.36 42086619.43 0.1746 0.1402

Moon 110517-12-20 16:18 G 42086919.03 42086919.18 42086919.33 0.2675 0.0710

Earth 110517-12-20 17:58 G 42086919.11 42086919.25 42086919.40 0.2677 0.1095 *

Jupiter 110521-03-24 14:22 G 42088109.00 42088109.10 42088109.19 0.0524 0.0350

Venus 110521-03-24 16:32 G 42088109.09 42088109.19 42088109.30 0.3679 0.0785 *

Jupiter 110521-06-21 20:51 G 42088198.26 42088198.37 42088198.47 0.0520 0.0295

Saturn 110521-07-28 17:44 G 42088235.18 42088235.24 42088235.32 0.0265 0.0244

Saturn 110521-10-25 14:08 G 42088323.91 42088324.09 42088324.27 0.0265 0.0064

Saturn 110522-01-22 10:18 G 42088412.77 42088412.93 42088413.10 0.0265 0.0118

Venus 110522-10-10 13:39 G 42088673.93 42088674.07 42088674.22 0.3695 0.0605

Mars 110526-07-17 06:56 G 42090049.69 42090049.79 42090049.90 0.1754 0.0664

Venus 110526-10-08 08:37 G 42090132.78 42090132.86 42090132.93 0.3675 0.2441

Jupiter 110527-08-05 16:46 G 42090434.04 42090434.20 42090434.36 0.0505 0.0211

Earth 110528-06-16 20:51 G 42090750.26 42090750.37 42090750.48 0.2656 0.0122

Moon 110528-06-16 21:06 G 42090750.27 42090750.38 42090750.49 0.2663 0.0131 *

Uranus 110532-10-14 13:10 G 42092331.03 42092331.05 42092331.09 0.0139 0.0136

Uranus 110533-01-10 17:01 G 42092419.14 42092419.21 42092419.29 0.0139 0.0115

Jupiter 110533-01-10 18:27 G 42092419.24 42092419.27 42092419.30 0.0524 0.0509 *

Uranus 110533-04-08 20:37 G 42092507.26 42092507.36 42092507.46 0.0139 0.0095

Jupiter 110533-04-10 01:10 G 42092508.43 42092508.55 42092508.68 0.0521 0.0142

Uranus 110533-07-06 00:13 G 42092595.40 42092595.51 42092595.62 0.0139 0.0076

Uranus 110533-10-02 03:34 G 42092683.54 42092683.65 42092683.78 0.0139 0.0057

Uranus 110533-12-29 07:25 G 42092771.68 42092771.81 42092771.94 0.0139 0.0036

Uranus 110534-03-27 11:01 G 42092859.82 42092859.96 42092860.09 0.0140 0.0017

Uranus 110534-06-23 14:22 G 42092947.97 42092948.10 42092948.24 0.0140 0.0004

Uranus 110534-09-19 17:58 G 42093036.12 42093036.25 42093036.38 0.0140 0.0023

Uranus 110534-12-16 21:20 G 42093124.27 42093124.39 42093124.52 0.0140 0.0043

Uranus 110535-03-15 00:56 G 42093212.42 42093212.54 42093212.66 0.0140 0.0062

Uranus 110535-06-11 04:18 G 42093300.58 42093300.68 42093300.79 0.0140 0.0082

Uranus 110535-09-07 07:54 G 42093388.74 42093388.83 42093388.92 0.0140 0.0101

Uranus 110535-12-04 11:15 G 42093476.91 42093476.97 42093477.04 0.0140 0.0121

Mars 110535-12-07 17:15 G 42093480.11 42093480.22 42093480.34 0.1762 0.0106

Uranus 110536-03-01 14:51 G 42093565.12 42093565.12 42093565.12 0.0140 0.0140

Saturn 110536-05-26 23:58 G 42093651.44 42093651.50 42093651.57 0.0295 0.0255

Saturn 110536-08-23 12:42 G 42093739.90 42093740.03 42093740.15 0.0295 0.0078

Saturn 110536-11-20 01:10 G 42093828.42 42093828.55 42093828.67 0.0295 0.0098

Mars 110537-01-05 12:42 G 42093874.87 42093875.03 42093875.19 0.1786 0.0625

Saturn 110537-02-16 13:25 G 42093917.02 42093917.06 42093917.11 0.0295 0.0272

Pluto 110538-08-04 05:15 G 42094450.70 42094450.72 42094450.78 0.0085 0.0081

Pluto 110538-10-31 06:56 G 42094538.70 42094538.79 42094538.88 0.0085 0.0062

Pluto 110539-01-27 07:54 G 42094626.73 42094626.83 42094626.95 0.0085 0.0044

Pluto 110539-04-25 09:20 G 42094714.77 42094714.89 42094715.02 0.0084 0.0025

Jupiter 110539-05-24 14:37 G 42094744.02 42094744.11 42094744.22 0.0504 0.0413

Pluto 110539-07-22 10:32 G 42094802.81 42094802.94 42094803.07 0.0084 0.0007

Jupiter 110539-08-22 23:01 G 42094834.37 42094834.46 42094834.56 0.0508 0.0431

Pluto 110539-10-18 11:44 G 42094890.86 42094890.99 42094891.12 0.0084 0.0011

Pluto 110540-01-14 12:56 G 42094978.92 42094979.04 42094979.16 0.0084 0.0029

Pluto 110540-04-11 13:54 G 42095066.98 42095067.08 42095067.20 0.0084 0.0047

Pluto 110540-07-08 15:06 G 42095155.06 42095155.13 42095155.22 0.0084 0.0065

Pluto 110540-10-04 16:03 G 42095243.17 42095243.17 42095243.21 0.0084 0.0083

Earth 110541-06-19 14:08 G 42095501.01 42095501.09 42095501.18 0.2654 0.1708

Moon 110541-06-19 14:51 G 42095501.04 42095501.12 42095501.20 0.2657 0.1812 *

Neptune 110543-08-18 00:42 G 42096290.52 42096290.53 42096290.56 0.0088 0.0087

Neptune 110543-11-14 02:08 G 42096378.55 42096378.59 42096378.65 0.0088 0.0080

Neptune 110544-02-10 03:34 G 42096466.59 42096466.65 42096466.73 0.0088 0.0074

Neptune 110544-05-08 04:46 G 42096554.63 42096554.70 42096554.80 0.0088 0.0067

Neptune 110544-08-04 06:13 G 42096642.68 42096642.76 42096642.87 0.0088 0.0060

Neptune 110544-10-31 07:39 G 42096730.72 42096730.82 42096730.94 0.0088 0.0053

Jupiter 110545-01-27 05:30 G 42096818.60 42096818.73 42096818.86 0.0521 0.0013

Neptune 110545-01-27 09:06 G 42096818.77 42096818.88 42096819.00 0.0088 0.0046 *

Neptune 110545-04-25 10:32 G 42096906.83 42096906.94 42096907.07 0.0088 0.0039

Mars 110545-04-29 03:20 G 42096910.54 42096910.64 42096910.74 0.1770 0.0895

Neptune 110545-07-22 11:58 G 42096994.88 42096995.00 42096995.13 0.0088 0.0033

Neptune 110545-10-18 13:10 G 42097082.93 42097083.05 42097083.19 0.0088 0.0026

Neptune 110546-01-14 14:37 G 42097170.98 42097171.11 42097171.25 0.0088 0.0019

Neptune 110546-04-12 16:03 G 42097259.04 42097259.17 42097259.31 0.0088 0.0012

Mars 110546-05-28 09:06 G 42097304.73 42097304.88 42097305.02 0.1777 0.0900

Neptune 110546-07-09 17:30 G 42097347.09 42097347.23 42097347.36 0.0088 0.0006

Neptune 110546-10-05 18:42 G 42097435.15 42097435.28 42097435.42 0.0088 0.0003

Neptune 110547-01-01 20:08 G 42097523.21 42097523.34 42097523.47 0.0088 0.0008

Neptune 110547-03-30 21:20 G 42097611.26 42097611.39 42097611.53 0.0088 0.0015

Neptune 110547-06-26 22:46 G 42097699.32 42097699.45 42097699.58 0.0088 0.0021

Neptune 110547-09-22 23:58 G 42097787.38 42097787.50 42097787.63 0.0088 0.0028

Neptune 110547-12-20 01:10 G 42097875.44 42097875.55 42097875.69 0.0088 0.0035

Neptune 110548-03-17 02:51 G 42097963.50 42097963.62 42097963.74 0.0088 0.0041

Neptune 110548-06-13 04:03 G 42098051.56 42098051.67 42098051.78 0.0088 0.0048

Neptune 110548-09-09 05:15 G 42098139.62 42098139.72 42098139.83 0.0088 0.0055

Neptune 110548-12-06 06:42 G 42098227.69 42098227.78 42098227.88 0.0088 0.0061

Neptune 110549-03-04 07:54 G 42098315.75 42098315.83 42098315.92 0.0088 0.0068

Neptune 110549-05-31 09:20 G 42098403.82 42098403.89 42098403.96 0.0088 0.0074

Neptune 110549-08-27 10:18 G 42098491.90 42098491.93 42098492.00 0.0088 0.0081

Neptune 110549-11-23 11:58 G 42098579.99 42098580.00 42098580.01 0.0088 0.0087

Moon 110550-12-18 15:20 G 42098970.04 42098970.14 42098970.23 0.2676 0.2110

Earth 110550-12-18 17:01 G 42098970.10 42098970.21 42098970.32 0.2675 0.1895 *

Saturn 110551-03-14 11:15 G 42099055.82 42099055.97 42099056.14 0.0265 0.0133

Jupiter 110551-06-10 20:51 G 42099144.21 42099144.37 42099144.54 0.0507 0.0225

Saturn 110551-06-11 07:39 G 42099144.64 42099144.82 42099145.01 0.0265 0.0048

Saturn 110551-09-08 04:18 G 42099233.59 42099233.68 42099233.77 0.0265 0.0230

Mars 110554-09-19 13:25 G 42100341.03 42100341.06 42100341.09 0.1779 0.1696

Mars 110556-08-24 20:37 G 42101046.31 42101046.36 42101046.42 0.1746 0.1499

Jupiter 110556-11-15 09:06 G 42101128.76 42101128.88 42101129.01 0.0522 0.0181

Jupiter 110557-02-12 15:20 G 42101218.08 42101218.14 42101218.20 0.0519 0.0453

Earth 110561-06-15 08:22 G 42102801.75 42102801.85 42102801.94 0.2657 0.1187

Moon 110561-06-15 08:37 G 42102801.76 42102801.86 42102801.95 0.2663 0.1192 *

Jupiter 110563-03-29 18:42 G 42103454.10 42103454.28 42103454.46 0.0506 0.0020

Moon 110563-12-21 23:44 G 42103721.37 42103721.49 42103721.61 0.2683 0.1673

Earth 110563-12-22 00:42 G 42103721.42 42103721.53 42103721.65 0.2677 0.1823 *

Saturn 110566-01-10 14:22 G 42104471.98 42104472.10 42104472.21 0.0295 0.0133

Mars 110566-01-15 06:56 G 42104476.69 42104476.79 42104476.90 0.1754 0.0751

Saturn 110566-04-09 02:51 G 42104560.49 42104560.62 42104560.75 0.0295 0.0044

Saturn 110566-07-06 15:20 G 42104649.05 42104649.14 42104649.23 0.0295 0.0218

Venus 110566-09-30 06:13 G 42104734.67 42104734.76 42104734.84 0.3685 0.2091

Jupiter 110568-09-03 13:10 G 42105438.95 42105439.05 42105439.15 0.0523 0.0343

Jupiter 110568-12-01 19:39 G 42105528.21 42105528.32 42105528.42 0.0520 0.0300

Venus 110572-04-14 22:18 G 42106758.32 42106758.43 42106758.53 0.3681 0.0364

Venus 110573-10-31 08:08 G 42107322.74 42107322.84 42107322.94 0.3692 0.2736

Uranus 110573-10-31 20:37 G 42107323.27 42107323.36 42107323.48 0.0139 0.0114

Uranus 110574-01-28 04:03 G 42107411.53 42107411.67 42107411.82 0.0139 0.0087

Uranus 110574-04-26 11:15 G 42107499.81 42107499.97 42107500.15 0.0139 0.0061

Earth 110574-06-18 01:39 G 42107552.46 42107552.57 42107552.68 0.2656 0.0439

Moon 110574-06-18 02:22 G 42107552.49 42107552.60 42107552.70 0.2657 0.0621 *

Uranus 110574-07-23 18:42 G 42107588.10 42107588.28 42107588.46 0.0138 0.0034

Uranus 110574-10-20 01:54 G 42107676.40 42107676.58 42107676.77 0.0138 0.0008

Jupiter 110575-01-15 15:20 G 42107763.98 42107764.14 42107764.30 0.0505 0.0204

Uranus 110575-01-16 09:20 G 42107764.70 42107764.89 42107765.08 0.0138 0.0020

Uranus 110575-04-14 16:32 G 42107853.02 42107853.19 42107853.37 0.0138 0.0047

Mars 110575-06-07 17:15 G 42107907.10 42107907.22 42107907.33 0.1762 0.0052

Uranus 110575-07-11 23:58 G 42107941.34 42107941.50 42107941.66 0.0138 0.0073

Uranus 110575-10-08 07:10 G 42108029.68 42108029.80 42108029.94 0.0138 0.0101

Uranus 110576-01-04 14:37 G 42108118.05 42108118.11 42108118.19 0.0138 0.0127

Mars 110576-07-06 13:39 G 42108301.92 42108302.07 42108302.22 0.1786 0.0816

Venus 110577-10-29 14:08 G 42108782.00 42108782.09 42108782.19 0.3678 0.1333

Venus 110579-05-17 15:34 G 42109347.03 42109347.15 42109347.27 0.3697 0.2161

Jupiter 110580-06-22 16:46 G 42109749.18 42109749.20 42109749.23 0.0525 0.0511

Saturn 110580-07-31 12:13 G 42109787.87 42109788.01 42109788.15 0.0266 0.0173

Jupiter 110580-09-19 23:44 G 42109838.37 42109838.49 42109838.62 0.0521 0.0142

Saturn 110580-10-28 08:22 G 42109876.67 42109876.85 42109877.04 0.0266 0.0009

Saturn 110581-01-25 05:01 G 42109965.58 42109965.71 42109965.83 0.0266 0.0191

Venus 110583-05-15 06:13 G 42110805.70 42110805.76 42110805.81 0.3674 0.2989

Mars 110584-10-28 03:20 G 42111337.54 42111337.64 42111337.75 0.1770 0.0793

Mars 110585-11-26 09:49 G 42111731.76 42111731.91 42111732.06 0.1777 0.0731

Jupiter 110586-11-03 12:56 G 42112073.94 42112074.04 42112074.15 0.0504 0.0407

Jupiter 110587-02-01 21:20 G 42112164.30 42112164.39 42112164.48 0.0507 0.0432

Earth 110587-06-20 18:56 G 42112303.22 42112303.29 42112303.36 0.2654 0.2042

Moon 110587-06-20 19:25 G 42112303.24 42112303.31 42112303.38 0.2648 0.2032 *

Jupiter 110592-07-09 04:03 G 42114148.54 42114148.67 42114148.80 0.0522 0.0013

Mars 110594-03-20 13:10 G 42114768.01 42114768.05 42114768.10 0.1779 0.1605

Earth 110594-06-13 19:39 G 42114853.28 42114853.32 42114853.35 0.2658 0.2490

Moon 110594-06-13 19:54 G 42114853.29 42114853.33 42114853.37 0.2664 0.2429 *

Saturn 110595-05-30 16:03 G 42115204.07 42115204.17 42115204.28 0.0295 0.0184

Saturn 110595-08-27 04:46 G 42115292.57 42115292.70 42115292.83 0.0295 0.0008

Saturn 110595-11-23 17:15 G 42115381.11 42115381.22 42115381.33 0.0295 0.0167

Mars 110596-02-23 20:37 G 42115473.32 42115473.36 42115473.41 0.1745 0.1598

Moon 110596-12-18 23:01 G 42115772.33 42115772.46 42115772.60 0.2683 0.1391

Earth 110596-12-18 23:30 G 42115772.34 42115772.48 42115772.63 0.2676 0.1191 *

Jupiter 110598-11-20 18:42 G 42116474.12 42116474.28 42116474.45 0.0507 0.0221

Jupiter 110604-04-28 08:08 G 42118458.72 42118458.84 42118458.97 0.0522 0.0171

Jupiter 110604-07-26 14:22 G 42118548.05 42118548.10 42118548.16 0.0519 0.0463

Mars 110605-07-17 06:56 G 42118903.69 42118903.79 42118903.89 0.1753 0.0844

Earth 110607-06-17 13:10 G 42119603.94 42119604.05 42119604.15 0.2657 0.0850

Moon 110607-06-17 13:54 G 42119603.97 42119604.08 42119604.18 0.2657 0.0730 *

Saturn 110609-12-19 09:49 G 42120519.84 42120519.91 42120520.00 0.0265 0.0238

Earth 110609-12-23 07:25 G 42120523.76 42120523.81 42120523.86 0.2678 0.2541

Saturn 110610-03-18 06:13 G 42120608.58 42120608.76 42120608.94 0.0265 0.0058

Saturn 110610-06-15 02:22 G 42120697.44 42120697.60 42120697.77 0.0265 0.0124

Jupiter 110610-09-09 16:46 G 42120784.02 42120784.20 42120784.38 0.0506 0.0021

Mars 110614-12-07 17:15 G 42122334.10 42122334.22 42122334.33 0.1762 0.0091

Mars 110616-01-06 14:37 G 42122728.97 42122729.11 42122729.25 0.1787 0.1003

Jupiter 110616-02-15 11:44 G 42122768.90 42122768.99 42122769.09 0.0523 0.0339

Jupiter 110616-05-14 18:13 G 42122858.16 42122858.26 42122858.37 0.0520 0.0304

Uranus 110616-11-04 20:51 G 42123032.33 42123032.37 42123032.43 0.0139 0.0129

Uranus 110617-02-01 00:42 G 42123120.45 42123120.53 42123120.62 0.0139 0.0108

Uranus 110617-04-30 04:18 G 42123208.58 42123208.68 42123208.79 0.0139 0.0088

Uranus 110617-07-27 07:54 G 42123296.71 42123296.83 42123296.95 0.0139 0.0069

Venus 110617-10-22 11:30 G 42123383.94 42123383.98 42123384.03 0.3687 0.3273

Uranus 110617-10-23 11:15 G 42123384.85 42123384.97 42123385.11 0.0139 0.0050

Uranus 110618-01-19 15:06 G 42123472.99 42123473.13 42123473.26 0.0140 0.0029

Uranus 110618-04-17 18:27 G 42123561.14 42123561.27 42123561.41 0.0140 0.0011

Uranus 110618-07-14 22:03 G 42123649.29 42123649.42 42123649.56 0.0140 0.0010

Uranus 110618-10-11 01:39 G 42123737.44 42123737.57 42123737.70 0.0140 0.0030

Uranus 110619-01-07 05:01 G 42123825.59 42123825.71 42123825.84 0.0140 0.0050

Uranus 110619-04-05 08:37 G 42123913.74 42123913.86 42123913.98 0.0140 0.0069

Uranus 110619-07-02 11:58 G 42124001.90 42124002.00 42124002.11 0.0140 0.0089

Uranus 110619-09-28 15:20 G 42124090.07 42124090.14 42124090.23 0.0140 0.0108

Uranus 110619-12-25 18:56 G 42124178.24 42124178.29 42124178.35 0.0140 0.0127

Earth 110620-06-19 06:27 G 42124354.67 42124354.77 42124354.87 0.2655 0.0780

Moon 110620-06-19 06:42 G 42124354.68 42124354.78 42124354.89 0.2650 0.0823 *

Jupiter 110622-06-28 14:22 G 42125093.94 42125094.10 42125094.27 0.0505 0.0188

Venus 110623-05-08 03:49 G 42125407.56 42125407.66 42125407.75 0.3684 0.1512

Mars 110624-04-29 03:20 G 42125764.53 42125764.64 42125764.74 0.1770 0.0707

Saturn 110624-10-17 17:44 G 42125936.17 42125936.24 42125936.32 0.0295 0.0240

Saturn 110625-01-14 06:27 G 42126024.64 42126024.77 42126024.90 0.0295 0.0063

Saturn 110625-04-12 18:56 G 42126113.17 42126113.29 42126113.42 0.0295 0.0114

Mars 110625-05-28 10:46 G 42126158.78 42126158.95 42126159.11 0.1777 0.0558

Saturn 110625-07-10 07:25 G 42126201.78 42126201.81 42126201.84 0.0295 0.0287

Jupiter 110627-12-04 15:34 G 42127079.12 42127079.15 42127079.18 0.0524 0.0505

Neptune 110628-01-12 08:51 G 42127117.81 42127117.87 42127117.96 0.0089 0.0082

Jupiter 110628-03-02 22:32 G 42127168.31 42127168.44 42127168.56 0.0521 0.0146

Neptune 110628-04-09 12:27 G 42127205.91 42127206.02 42127206.14 0.0089 0.0072

Neptune 110628-07-06 15:34 G 42127294.03 42127294.15 42127294.30 0.0089 0.0063

Neptune 110628-10-02 19:10 G 42127382.16 42127382.30 42127382.47 0.0089 0.0053

Venus 110628-11-20 19:54 G 42127431.22 42127431.33 42127431.43 0.3680 0.0230

Neptune 110628-12-29 22:46 G 42127470.29 42127470.45 42127470.62 0.0089 0.0043

Neptune 110629-03-28 02:22 G 42127558.42   42127558.60   42127558.78 0.0089 0.0033

Neptune 110629-06-24 05:44 G 42127646.56   42127646.74   42127646.93 0.0089 0.0023

Neptune 110629-09-20 09:20 G 42127734.70   42127734.89   42127735.08 0.0089 0.0013

Neptune 110629-12-17 12:56 G 42127822.85   42127823.04   42127823.23 0.0089 0.0003

Neptune 110630-03-15 16:18 G 42127910.99   42127911.18   42127911.38 0.0089 0.0007

Venus   110630-06-08 09:49 G 42127995.77   42127995.91   42127996.05 0.3693 0.1254

Neptune 110630-06-11 19:54 G 42127999.14   42127999.33   42127999.52 0.0089 0.0017

Neptune 110630-09-07 23:30 G 42128087.30   42128087.48   42128087.66 0.0089 0.0027

Neptune 110630-12-05 03:06 G 42128175.45   42128175.63   42128175.80 0.0089 0.0037

Neptune 110631-03-03 06:27 G 42128263.61   42128263.77   42128263.94 0.0089 0.0047

Neptune 110631-05-30 09:49 G 42128351.78   42128351.91   42128352.07 0.0089 0.0057

Neptune 110631-08-26 13:10 G 42128439.95   42128440.05   42128440.20 0.0089 0.0068

Neptune 110631-11-22 16:46 G 42128528.13   42128528.20   42128528.32 0.0089 0.0078

Neptune 110632-02-18 20:22 G 42128616.33   42128616.35   42128616.41 0.0089 0.0088

Moon   110633-06-21 23:30 G 42129105.43   42129105.48   42129105.53 0.2648 0.2344

Earth   110633-06-21 23:44 G 42129105.45   42129105.49   42129105.54 0.2654 0.2382 *

Mars   110633-09-19 13:25 G 42129195.00   42129195.06   42129195.11 0.1779 0.1504

Jupiter 110634-04-16 11:30 G 42129403.88   42129403.98   42129404.09 0.0504 0.0402

Venus   110634-06-06 11:44 G 42129454.90   42129454.99   42129455.08 0.3677 0.1884

Jupiter 110634-07-15 19:39 G 42129494.23   42129494.32   42129494.41 0.0507 0.0436

Mars   110635-08-25 20:37 G 42129900.33   42129900.36   42129900.38 0.1745 0.1685

Saturn   110639-08-05 07:10 G 42131340.62   42131340.80   42131340.97 0.0266 0.0096

Saturn   110639-11-02 03:20 G 42131429.47   42131429.64   42131429.82 0.0266 0.0086

Jupiter 110639-12-21 02:22 G 42131478.47   42131478.60   42131478.73 0.0522 0.0018

Venus   110639-12-21 03:34 G 42131478.63   42131478.65   42131478.68 0.3673 0.3525 *

Earth   110640-06-15 00:13 G 42131655.45   42131655.51   42131655.58 0.2658 0.2148

Moon   110640-06-15 00:56 G 42131655.48   42131655.54   42131655.61 0.2657 0.2090 *

Earth   110642-12-21 06:13 G 42132574.61   42132574.76   42132574.92 0.2676 0.0478

Moon   110642-12-21 07:25 G 42132574.66   42132574.81   42132574.97 0.2681 0.0284 *

Mars   110645-01-15 06:56 G 42133330.69   42133330.79   42133330.89 0.1753 0.0946

Jupiter 110646-05-03 16:46 G 42133804.04 42133804.20 42133804.37 0.0506 0.0222

Jupiter 110651-10-09 06:27 G 42135788.65 42135788.77 42135788.90 0.0523 0.0176

Jupiter 110652-01-06 12:42 G 42135877.98 42135878.03 42135878.09 0.0519 0.0460

Earth 110653-06-17 17:44 G 42136406.14 42136406.24 42136406.35 0.2657 0.0514

Moon 110653-06-17 18:13 G 42136406.15 42136406.26 42136406.37 0.2651 0.0397 *

Saturn 110654-03-06 20:22 G 42136668.32 42136668.35 42136668.39 0.0294 0.0281

Saturn 110654-06-03 09:06 G 42136756.75 42136756.88 42136757.00 0.0294 0.0105

Mars 110654-06-07 17:15 G 42136761.10 42136761.22 42136761.33 0.1761 0.0188

Saturn 110654-08-30 21:34 G 42136845.27 42136845.40 42136845.53 0.0295 0.0071

Saturn 110654-11-27 09:49 G 42136933.84 42136933.91 42136933.99 0.0295 0.0245

Mars 110655-07-07 15:06 G 42137156.01 42137156.13 42137156.26 0.1787 0.1160

Uranus 110657-08-25 21:20 G 42137936.34 42137936.39 42137936.46 0.0139 0.0131

Uranus 110657-11-22 04:32 G 42138024.58 42138024.69 42138024.82 0.0139 0.0105

Uranus 110658-02-18 11:44 G 42138112.85 42138112.99 42138113.15 0.0139 0.0079

Jupiter 110658-02-19 14:08 G 42138113.91 42138114.09 42138114.28 0.0506 0.0016

Uranus 110658-05-17 19:10 G 42138201.13 42138201.30 42138201.47 0.0139 0.0052

Uranus 110658-08-14 02:22 G 42138289.42 42138289.60 42138289.79 0.0138 0.0025

Uranus 110658-11-10 09:49 G 42138377.72 42138377.91 42138378.10 0.0138 0.0003

Uranus 110659-02-06 17:01 G 42138466.03 42138466.21 42138466.40 0.0138 0.0028

Uranus 110659-05-06 00:13 G 42138554.35 42138554.51 42138554.69 0.0138 0.0055

Uranus 110659-08-02 07:39 G 42138642.67 42138642.82 42138642.98 0.0138 0.0082

Uranus 110659-10-29 14:51 G 42138731.02 42138731.12 42138731.25 0.0138 0.0109

Uranus 110660-01-25 22:18 G 42138819.41 42138819.43 42138819.47 0.0138 0.0136

Jupiter 110663-07-28 10:32 G 42140098.85 42140098.94 42140099.05 0.0523 0.0335

Jupiter 110663-10-25 17:15 G 42140188.12 42140188.22 42140188.32 0.0520 0.0309

Mars 110663-10-29 03:20 G 42140191.53 42140191.64 42140191.75 0.1770 0.0607

Mars 110664-11-26 11:30 G 42140585.82 42140585.98 42140586.15 0.1777 0.0377

Moon 110666-06-20 10:46 G 42141156.85 42141156.95 42141157.05 0.2649 0.0980

Earth 110666-06-20 11:15 G 42141156.87 42141156.97 42141157.07 0.2655 0.1118 *

Saturn 110668-12-22 05:15 G 42142072.57 42142072.72 42142072.87 0.0265 0.0158

Saturn 110669-03-21 01:39 G 42142161.38 42142161.57 42142161.75 0.0265 0.0023

Saturn 110669-06-17 21:49 G 42142250.31 42142250.41 42142250.54 0.0265 0.0207

Jupiter 110669-12-08 12:13 G 42142423.84 42142424.01 42142424.17 0.0505 0.0193

Mars 110673-03-20 13:10 G 42143621.98 42143622.05 42143622.12 0.1778 0.1412

Venus 110674-05-29 09:06 G 42144056.81 42144056.88 42144056.96 0.3686 0.2686

Jupiter 110675-05-16 14:08 G 42144409.06 42144409.09 42144409.13 0.0524 0.0505

Jupiter 110675-08-13 21:06 G 42144498.25 42144498.38 42144498.50 0.0521 0.0146

Venus 110679-12-13 01:25 G 42146080.46 42146080.56 42146080.66 0.3683 0.0934

Jupiter 110681-09-26 10:03 G 42146733.81 42146733.92 42146734.03 0.0504 0.0394

Jupiter 110681-12-25 18:27 G 42146824.19 42146824.27 42146824.35 0.0507 0.0447

Saturn 110683-10-21 10:46 G 42147488.84 42147488.95 42147489.06 0.0295 0.0159

Saturn 110684-01-17 23:30 G 42147577.34 42147577.48 42147577.61 0.0295 0.0020

Saturn 110684-04-15 11:44 G 42147665.89 42147665.99 42147666.09 0.0295 0.0192

Mars 110684-07-16 06:56 G 42147757.69 42147757.79 42147757.88 0.1753 0.1036

Venus 110685-06-27 17:30 G 42148104.12 42148104.23 42148104.33 0.3679 0.0781

Earth 110686-06-16 05:01 G 42148457.64 42148457.71 42148457.79 0.2658 0.1804

Moon 110686-06-16 05:30 G 42148457.64 42148457.73 42148457.81 0.2651 0.1730 *

Venus 110687-01-13 11:30 G 42148668.83 42148668.98 42148669.13 0.3694 0.0266

Jupiter 110687-06-02 00:56 G 42148808.41 42148808.54 42148808.67 0.0522 0.0022

Earth 110688-12-21 12:56 G 42149376.88 42149377.04 42149377.20 0.2677 0.0236

Moon 110688-12-21 14:22 G 42149376.95 42149377.10 42149377.26 0.2673 0.0592 *

Pluto 110689-04-01 01:25 G 42149477.53 42149477.56 42149477.62 0.0060 0.0058

Pluto 110689-06-28 02:37 G 42149565.52 42149565.61 42149565.75 0.0060 0.0049

Pluto 110689-09-24 04:18 G 42149653.54 42149653.68 42149653.84 0.0060 0.0039

Pluto 110689-12-21 05:30 G 42149741.57 42149741.73 42149741.92 0.0060 0.0030

Pluto 110690-03-19 06:56 G 42149829.62 42149829.79 42149829.99 0.0060 0.0020

Pluto 110690-06-15 08:22 G 42149917.67 42149917.85 42149918.05 0.0060 0.0011

Pluto 110690-09-11 10:03 G 42150005.72 42150005.92 42150006.11 0.0060 0.0001

Pluto 110690-12-08 11:15 G 42150093.78 42150093.97 42150094.17 0.0060 0.0009

Venus 110691-01-11 09:20 G 42150127.81 42150127.89 42150127.97 0.3676 0.2437

Pluto 110691-03-06 12:42 G 42150181.84 42150182.03 42150182.22 0.0060 0.0018

Pluto 110691-06-02 13:54 G 42150269.92 42150270.08 42150270.26 0.0060 0.0028

Pluto 110691-08-29 15:06 G 42150358.00 42150358.13 42150358.30 0.0060 0.0038

Pluto 110691-11-25 16:46 G 42150446.09 42150446.20 42150446.33 0.0060 0.0048

Pluto 110692-02-21 17:44 G 42150534.21 42150534.24 42150534.32 0.0060 0.0058

Jupiter 110693-10-13 15:06 G 42151133.97 42151134.13 42151134.29 0.0506 0.0223

Mars 110693-12-06 17:01 G 42151188.10 42151188.21 42151188.33 0.1761 0.0279

Mars 110695-01-05 16:18 G 42151583.07 42151583.18 42151583.29 0.1787 0.1358

Saturn 110698-05-11 06:27 G 42152804.65 42152804.77 42152804.90 0.0266 0.0194

Saturn 110698-08-08 02:37 G 42152893.43 42152893.61 42152893.80 0.0266 0.0015

Saturn 110698-11-04 23:15 G 42152982.33 42152982.47 42152982.61 0.0266 0.0170

Jupiter 110699-03-21 04:46 G 42153118.57 42153118.70 42153118.82 0.0523 0.0185

Jupiter 110699-06-18 11:01 G 42153207.90 42153207.96 42153208.02 0.0520 0.0453

Moon 110699-06-18 22:03 G 42153208.31 42153208.42 42153208.53 0.2652 0.0270

Earth 110699-06-18 22:32 G 42153208.33 42153208.44 42153208.55 0.2656 0.0176 *

Uranus 110700-11-26 04:46 G 42153733.64 42153733.70 42153733.76 0.0139 0.0121

Uranus 110701-02-22 08:22 G 42153821.76 42153821.85 42153821.94 0.0139 0.0102

Uranus 110701-05-21 11:58 G 42153909.89 42153910.00 42153910.11 0.0139 0.0082

Uranus 110701-08-17 15:20 G 42153998.03 42153998.14 42153998.27 0.0139 0.0063

Uranus 110701-11-13 18:56 G 42154086.17 42154086.29 42154086.43 0.0140 0.0043

Uranus 110702-02-09 22:32 G 42154174.31 42154174.44 42154174.58 0.0140 0.0023

Uranus 110702-05-09 02:08 G 42154262.46 42154262.59 42154262.73 0.0140 0.0003

Uranus 110702-08-05 05:44 G 42154350.60 42154350.74 42154350.87 0.0140 0.0017

Uranus 110702-11-01 09:06 G 42154438.76 42154438.88 42154439.01 0.0140 0.0037

Uranus 110703-01-28 12:42 G 42154526.91 42154527.03 42154527.15 0.0140 0.0056

Uranus 110703-04-26 16:18 G 42154615.06 42154615.18 42154615.29 0.0140 0.0075

Mars 110703-04-30 03:20 G 42154618.53 42154618.64 42154618.75 0.1770 0.0508

Uranus 110703-07-23 19:25 G 42154703.22 42154703.31 42154703.42 0.0140 0.0096

Uranus 110703-10-19 23:01 G 42154791.39 42154791.46 42154791.54 0.0140 0.0114

Uranus 110704-01-16 02:37 G 42154879.57 42154879.61 42154879.65 0.0140 0.0134

Mars 110704-05-28 12:13 G 42155012.84 42155013.01 42155013.18 0.1777 0.0212

Jupiter 110705-08-02 12:13 G 42155443.83 42155444.01 42155444.19 0.0505 0.0014

Neptune 110708-05-16 00:13 G 42156461.48 42156461.51 42156461.54 0.0088 0.0085

Neptune 110708-08-12 01:39 G 42156549.51 42156549.57 42156549.63 0.0088 0.0079

Neptune 110708-11-08 02:37 G 42156637.55 42156637.61 42156637.70 0.0088 0.0072

Neptune 110709-02-04 04:03 G 42156725.59 42156725.67 42156725.78 0.0088 0.0066

Neptune 110709-05-03 05:44 G 42156813.64 42156813.74 42156813.84 0.0088 0.0058

Neptune 110709-07-30 07:10 G 42156901.69 42156901.80 42156901.91 0.0088 0.0051

Neptune 110709-10-26 08:37 G 42156989.74 42156989.86 42156989.97 0.0088 0.0044

Neptune 110710-01-22 09:49 G 42157077.79 42157077.91 42157078.04 0.0088 0.0038

Neptune 110710-04-20 11:15 G 42157165.85 42157165.97 42157166.10 0.0088 0.0031

Neptune 110710-07-17 12:42 G 42157253.90 42157254.03 42157254.16 0.0088 0.0024

Neptune 110710-10-13 13:54 G 42157341.95 42157342.08 42157342.22 0.0088 0.0018

Jupiter 110711-01-08 08:37 G 42157428.77 42157428.86 42157428.96 0.0524 0.0345

Neptune 110711-01-09 15:20 G 42157430.01 42157430.14 42157430.28 0.0088 0.0011

Jupiter 110711-04-07 15:20 G 42157518.03 42157518.14 42157518.24 0.0520 0.0300

Neptune 110711-04-07 16:46 G 42157518.06 42157518.20 42157518.33 0.0088 0.0004 *

Neptune 110711-07-04 17:58 G 42157606.12 42157606.25 42157606.39 0.0088 0.0004

Neptune 110711-09-30 19:25 G 42157694.18 42157694.31 42157694.44 0.0088 0.0010

Neptune 110711-12-27 20:51 G 42157782.23 42157782.37 42157782.50 0.0088 0.0016

Neptune 110712-03-24 22:03 G 42157870.29 42157870.42 42157870.55 0.0088 0.0023

Neptune 110712-06-20 23:15 G 42157958.35 42157958.47 42157958.60 0.0088 0.0030

Moon 110712-06-21 15:20 G 42157959.05 42157959.14 42157959.23 0.2656 0.1379

Earth 110712-06-21 16:03 G 42157959.08 42157959.17 42157959.26 0.2655 0.1454 *

Neptune 110712-09-17 00:42 G 42158046.41 42158046.53 42158046.66 0.0088 0.0036

Mars 110712-09-19 13:10 G 42158048.98 42158049.05 42158049.13 0.1778 0.1313

Neptune 110712-12-14 01:54 G 42158134.47 42158134.58 42158134.71 0.0088 0.0043

Saturn 110713-03-10 13:54 G 42158220.98 42158221.08 42158221.18 0.0294 0.0195

Neptune 110713-03-12 03:20 G 42158222.54 42158222.64 42158222.75 0.0088 0.0050

Saturn 110713-06-07 02:22 G 42158309.47 42158309.60 42158309.73 0.0294 0.0019

Neptune 110713-06-08 04:46 G 42158310.60   42158310.70   42158310.80 0.0088 0.0056

Saturn   110713-09-03 14:51 G 42158398.01   42158398.12   42158398.23 0.0294 0.0156

Neptune 110713-09-04 05:58 G 42158398.66   42158398.75   42158398.85 0.0088 0.0063

Mars   110713-10-18 08:37 G 42158442.83   42158442.86   42158442.90 0.1768 0.1718

Neptune 110713-12-01 07:25 G 42158486.73   42158486.81   42158486.89 0.0088 0.0069

Neptune 110714-02-27 08:37 G 42158574.80   42158574.86   42158574.93 0.0088 0.0076

Neptune 110714-05-26 09:49 G 42158662.88   42158662.91   42158662.96 0.0088 0.0083

Jupiter 110717-05-21 09:34 G 42159753.73   42159753.90   42159754.06 0.0505 0.0203

Moon   110721-12-20 13:25 G 42161428.00   42161428.06   42161428.12 0.2671 0.2484

Jupiter 110722-10-27 12:42 G 42161739.00   42161739.03   42161739.07 0.0524 0.0505

Jupiter 110723-01-24 19:39 G 42161828.20   42161828.32   42161828.44 0.0521 0.0147

Mars   110724-01-16 06:42 G 42162184.70   42162184.78   42162184.87 0.1753 0.1132

Saturn   110727-09-29 05:01 G 42163536.66   42163536.71   42163536.77 0.0266 0.0251

Saturn   110727-12-27 01:10 G 42163625.38   42163625.55   42163625.74 0.0266 0.0072

Saturn   110728-03-24 21:34 G 42163714.24   42163714.40   42163714.58 0.0266 0.0111

Jupiter 110729-03-09 07:39 G 42164063.71   42164063.82   42164063.92 0.0504 0.0402

Jupiter 110729-06-07 15:49 G 42164154.07   42164154.16   42164154.25 0.0507 0.0437

Venus   110731-01-04 06:56 G 42164729.70   42164729.79   42164729.87 0.3685 0.2096

Moon   110732-06-17 09:20 G 42165259.80   42165259.89   42165259.98 0.2654 0.1489

Earth   110732-06-17 10:03 G 42165259.82   42165259.92   42165260.01 0.2658 0.1456 *

Mars   110733-06-07 17:01 G 42165615.10   42165615.21   42165615.32 0.1761 0.0369

Mars   110734-07-07 17:01 G 42166010.13   42166010.21   42166010.30 0.1787 0.1535

Jupiter 110734-11-12 23:30 G 42166138.35   42166138.48   42166138.61 0.0522 0.0018

Moon   110734-12-23 19:39 G 42166179.17   42166179.32   42166179.47 0.2670 0.0897

Earth   110734-12-23 19:54 G 42166179.18   42166179.33   42166179.47 0.2677 0.0975 *

Venus   110736-07-19 23:01 G 42166753.36   42166753.46   42166753.56 0.3682 0.0362

Venus   110738-02-04 05:58 G 42167317.67   42167317.75   42167317.83 0.3691 0.3035

Jupiter 110741-03-26 13:10 G 42168463.89   42168464.05   42168464.21 0.0506 0.0226

Uranus   110741-09-16 05:01 G 42168637.63   42168637.71   42168637.80 0.0139 0.0123

Uranus   110741-12-13 12:13 G 42168725.88   42168726.01   42168726.14 0.0139 0.0097

Venus 110742-02-02 15:06 G 42168777.03 42168777.13 42168777.22 0.3678 0.1336

Uranus 110742-03-11 19:10 G 42168814.15 42168814.30 42168814.47 0.0139 0.0071

Uranus 110742-06-08 02:22 G 42168902.44 42168902.60 42168902.79 0.0139 0.0045

Saturn 110742-07-28 15:34 G 42168953.09 42168953.15 42168953.22 0.0295 0.0248

Uranus 110742-09-04 09:49 G 42168990.73 42168990.91 42168991.10 0.0138 0.0018

Saturn 110742-10-25 04:18 G 42169041.55 42169041.68 42169041.81 0.0295 0.0071

Mars 110742-10-29 03:06 G 42169045.52 42169045.63 42169045.75 0.1769 0.0420

Uranus 110742-12-01 17:15 G 42169079.03 42169079.22 42169079.41 0.0138 0.0009

Saturn 110743-01-21 16:46 G 42169130.08 42169130.20 42169130.33 0.0295 0.0104

Uranus 110743-02-28 00:27 G 42169167.34 42169167.52 42169167.70 0.0138 0.0036

Saturn 110743-04-20 05:01 G 42169218.68 42169218.71 42169218.76 0.0295 0.0278

Uranus 110743-05-27 07:54 G 42169255.66 42169255.83 42169256.00 0.0138 0.0063

Venus 110743-08-21 13:10 G 42169341.92 42169342.05 42169342.18 0.3696 0.1794

Uranus 110743-08-23 15:06 G 42169343.99 42169344.13 42169344.28 0.0138 0.0090

Uranus 110743-11-19 22:32 G 42169432.34 42169432.44 42169432.54 0.0138 0.0116

Mars 110743-11-27 13:10 G 42169439.88 42169440.05 42169440.22 0.1778 0.0030

Moon 110745-06-20 02:37 G 42170010.51 42170010.61 42170010.72 0.2659 0.0112

Earth 110745-06-20 03:20 G 42170010.53 42170010.64 42170010.75 0.2656 0.0181 *

Jupiter 110746-09-01 03:20 G 42170448.51 42170448.64 42170448.76 0.0523 0.0183

Jupiter 110746-11-29 09:34 G 42170537.84 42170537.90 42170537.96 0.0519 0.0453

Venus 110747-08-19 06:56 G 42170800.73 42170800.79 42170800.85 0.3675 0.2980

Mars 110752-03-20 13:10 G 42172475.97 42172476.05 42172476.13 0.1778 0.1216

Jupiter 110753-01-12 10:18 G 42172773.75 42172773.93 42172774.11 0.0505 0.0008

Mars 110753-04-18 09:49 G 42172869.83 42172869.91 42172869.99 0.1768 0.1530

Saturn 110757-05-15 02:37 G 42174357.44 42174357.61 42174357.78 0.0266 0.0107

Saturn 110757-08-11 23:01 G 42174446.28 42174446.46 42174446.64 0.0266 0.0076

Saturn 110757-11-08 19:25 G 42174535.28 42174535.31 42174535.35 0.0266 0.0260

Jupiter 110758-06-20 06:42 G 42174758.68 42174758.78 42174758.87 0.0524 0.0357

Earth 110758-06-22 20:37 G 42174761.28 42174761.36 42174761.44 0.2654 0.1789

Moon 110758-06-22 20:51 G 42174761.29 42174761.37 42174761.44 0.2661 0.1863 *

Jupiter 110758-09-17 13:25 G 42174847.95 42174848.06 42174848.16 0.0521 0.0289

Mars 110763-07-17 06:42 G 42176611.70 42176611.78 42176611.86 0.1753 0.1232

Jupiter 110764-10-31 07:39 G 42177083.66 42177083.82 42177083.98 0.0504 0.0202

Moon 110767-12-21 17:58 G 42178230.15 42178230.25 42178230.35 0.2669 0.2008

Earth 110767-12-21 18:56 G 42178230.18 42178230.29 42178230.39 0.2675 0.2002 *

Jupiter 110770-04-08 10:32 G 42179068.93 42179068.94 42179068.96 0.0525 0.0521

Jupiter 110770-07-06 17:30 G 42179158.11 42179158.23 42179158.36 0.0521 0.0135

Saturn 110771-12-15 18:56 G 42179685.26 42179685.29 42179685.34 0.0294 0.0278

Saturn 110772-03-13 07:39 G 42179773.70 42179773.82 42179773.95 0.0294 0.0102

Saturn 110772-06-09 20:22 G 42179862.22 42179862.35 42179862.47 0.0294 0.0074

Saturn 110772-09-06 08:37 G 42179950.79 42179950.86 42179950.93 0.0294 0.0247

Mars 110772-12-06 17:01 G 42180042.10 42180042.21 42180042.32 0.1761 0.0467

Mars 110774-01-05 17:44 G 42180437.19 42180437.24 42180437.29 0.1788 0.1701

Jupiter 110776-08-19 04:46 G 42181393.60 42181393.70 42181393.80 0.0504 0.0415

Jupiter 110776-11-17 12:56 G 42181483.94 42181484.04 42181484.14 0.0507 0.0421

Moon 110778-06-18 14:08 G 42182062.00 42182062.09 42182062.19 0.2662 0.1228

Earth 110778-06-18 14:37 G 42182062.02 42182062.11 42182062.21 0.2657 0.1116 *

Moon 110780-12-24 00:56 G 42182981.40 42182981.54 42182981.67 0.2677 0.1336

Earth 110780-12-24 02:37 G 42182981.48 42182981.61 42182981.73 0.2677 0.1701 *

Venus 110782-01-25 12:13 G 42183378.97 42183379.01 42183379.06 0.3688 0.3276

Jupiter 110782-04-24 21:49 G 42183468.28 42183468.41 42183468.54 0.0522 0.0023

Mars 110782-04-29 03:06 G 42183472.52 42183472.63 42183472.74 0.1769 0.0321

Mars 110783-05-28 14:08 G 42183866.92 42183867.09 42183867.26 0.1778 0.0154

Uranus 110784-09-19 08:37 G 42184346.83 42184346.86 42184346.89 0.0139 0.0135

Uranus 110784-12-16 12:13 G 42184434.94 42184435.01 42184435.08 0.0139 0.0116

Pluto 110784-12-24 19:10 G 42184443.27 42184443.30 42184443.35 0.0085 0.0080

Uranus 110785-03-14 15:49 G 42184523.06 42184523.16 42184523.26 0.0139 0.0096

Pluto 110785-03-22 20:37 G 42184531.27 42184531.36 42184531.45 0.0085 0.0061

Uranus 110785-06-10 19:10 G 42184611.20 42184611.30 42184611.42 0.0139 0.0077

Pluto 110785-06-18 21:49 G 42184619.30 42184619.41 42184619.52 0.0085 0.0043

Uranus 110785-09-06 22:46 G 42184699.33 42184699.45 42184699.58 0.0139 0.0057

Pluto 110785-09-14 23:01 G 42184707.33 42184707.46 42184707.59 0.0084 0.0025

Uranus 110785-12-04 02:22 G 42184787.47 42184787.60 42184787.74 0.0140 0.0037

Pluto 110785-12-12 00:13 G 42184795.38 42184795.51 42184795.64 0.0084 0.0006

Uranus 110786-03-02 05:58 G 42184875.62 42184875.75 42184875.89 0.0140 0.0017

Pluto 110786-03-10 01:25 G 42184883.43 42184883.56 42184883.69 0.0084 0.0012

Uranus 110786-05-29 09:34 G 42184963.76 42184963.90 42184964.03 0.0140 0.0003

Pluto 110786-06-06 02:22 G 42184971.49 42184971.60 42184971.73 0.0084 0.0030

Uranus 110786-08-25 12:56 G 42185051.91 42185052.04 42185052.18 0.0140 0.0023

Pluto 110786-09-02 03:34 G 42185059.55 42185059.65 42185059.77 0.0084 0.0048

Saturn 110786-10-02 01:39 G 42185089.43 42185089.57 42185089.72 0.0266 0.0160

Uranus 110786-11-21 16:32 G 42185140.06 42185140.19 42185140.32 0.0140 0.0042

Pluto 110786-11-29 04:32 G 42185147.63 42185147.69 42185147.79 0.0084 0.0066

Saturn 110786-12-29 22:03 G 42185178.24 42185178.42 42185178.61 0.0266 0.0022

Uranus 110787-02-17 20:08 G 42185228.22 42185228.34 42185228.46 0.0140 0.0061

Pluto 110787-02-25 05:58 G 42185235.75 42185235.75 42185235.77 0.0084 0.0083

Saturn 110787-03-28 18:42 G 42185267.16 42185267.28 42185267.39 0.0266 0.0205

Uranus 110787-05-16 23:30 G 42185316.38 42185316.48 42185316.59 0.0140 0.0081

Venus 110787-08-11 04:32 G 42185402.59 42185402.69 42185402.78 0.3684 0.1516

Uranus 110787-08-13 03:06 G 42185404.54 42185404.63 42185404.72 0.0140 0.0100

Uranus 110787-11-09 06:13 G 42185492.71 42185492.76 42185492.84 0.0140 0.0120

Uranus 110788-02-05 09:49 G 42185580.91 42185580.91 42185580.93 0.0140 0.0139

Jupiter 110788-09-05 10:18 G 42185793.77 42185793.93 42185794.10 0.0506 0.0213

Earth 110791-06-21 08:08 G 42186812.73 42186812.84 42186812.95 0.2656 0.0515

Moon 110791-06-21 08:22 G 42186812.74 42186812.85 42186812.95 0.2662 0.0580 *

Mars 110791-09-19 13:10 G 42186902.96 42186903.05 42186903.14 0.1778 0.1120

Neptune 110792-07-13 03:34 G 42187200.63 42187200.65 42187200.70 0.0089 0.0088

Neptune 110792-10-09 07:10 G 42187288.72 42187288.80 42187288.90 0.0089 0.0078

Mars 110792-10-17 10:32 G 42187296.83 42187296.94 42187297.04 0.1768 0.1367

Neptune 110793-01-05 10:18 G 42187376.83 42187376.93 42187377.07 0.0089 0.0069

Venus 110793-02-23 20:37 G 42187426.25 42187426.36 42187426.46 0.3681 0.0224

Neptune 110793-04-03 13:54 G 42187464.95 42187465.08 42187465.24 0.0089 0.0059

Neptune 110793-06-30 17:30 G 42187553.08 42187553.23 42187553.40 0.0089 0.0049

Neptune 110793-09-26 21:06 G 42187641.21 42187641.38 42187641.56 0.0089 0.0039

Neptune 110793-12-24 00:27 G 42187729.35 42187729.52 42187729.71 0.0089 0.0029

Jupiter 110794-02-11 01:39 G 42187778.45 42187778.57 42187778.69 0.0523 0.0187

Neptune 110794-03-22 04:03 G 42187817.49 42187817.67 42187817.86 0.0089 0.0019

Jupiter 110794-05-11 07:54 G 42187867.77 42187867.83 42187867.89 0.0519 0.0448

Neptune 110794-06-18 07:39 G 42187905.63 42187905.82 42187906.01 0.0089 0.0009

Venus 110794-09-11 07:25 G 42187990.68 42187990.81 42187990.95 0.3692 0.1593

Neptune 110794-09-14 11:01 G 42187993.77 42187993.96 42187994.16 0.0089 0.0003

Neptune 110794-12-11 14:37 G 42188081.92 42188082.11 42188082.30 0.0089 0.0011

Neptune 110795-03-09 18:13 G 42188170.07 42188170.26 42188170.44 0.0089 0.0021

Neptune 110795-06-05 21:34 G 42188258.23 42188258.40 42188258.58 0.0089 0.0031

Neptune 110795-09-02 01:10 G 42188346.38 42188346.55 42188346.72 0.0089 0.0041

Neptune 110795-11-29 04:32 G 42188434.54 42188434.69 42188434.86 0.0089 0.0051

Neptune 110796-02-25 08:08 G 42188522.71 42188522.84 42188522.99 0.0089 0.0061

Neptune 110796-05-23 11:44 G 42188610.88 42188610.99 42188611.11 0.0089 0.0071

Neptune 110796-08-19 15:20 G 42188699.06 42188699.14 42188699.23 0.0089 0.0081

Venus 110798-09-09 12:27 G 42189449.93 42189450.02 42189450.11 0.3678 0.1883

Venus 110800-03-27 15:06 G 42190015.07 42190015.13 42190015.19 0.3697 0.3355

Jupiter 110800-06-24 08:08 G 42190103.66 42190103.84 42190104.02 0.0506 0.0007

Saturn 110801-07-31 09:34 G 42190505.79 42190505.90 42190506.01 0.0295 0.0155

Saturn 110801-10-27 22:03 G 42190594.29 42190594.42 42190594.56 0.0295 0.0022

Saturn 110802-01-24 10:32 G 42190682.84 42190682.94 42190683.04 0.0295 0.0195

Mars 110803-01-15 06:42 G 42191038.71 42191038.78 42191038.85 0.1752 0.1320

Venus 110804-03-25 04:18 G 42191473.65 42191473.68 42191473.71 0.3674 0.3508

Earth 110804-06-23 01:25 G 42191563.50 42191563.56 42191563.63 0.2654 0.2129

Moon 110804-06-23 02:08 G 42191563.53 42191563.59 42191563.65 0.2656 0.2198 *

Jupiter 110805-11-30 05:15 G 42192088.63 42192088.72 42192088.82 0.0524 0.0355

Jupiter 110806-02-27 11:58 G 42192177.89 42192178.00 42192178.11 0.0520 0.0290

Moon 110811-06-17 01:39 G 42194113.53 42194113.57 42194113.61 0.2664 0.2423

Earth 110811-06-17 01:54 G 42194113.54 42194113.58 42194113.63 0.2659 0.2416 *

Jupiter 110812-04-12 05:30 G 42194413.57 42194413.73 42194413.89 0.0504 0.0206

Mars 110812-06-06 17:01 G 42194469.10 42194469.21 42194469.32 0.1761 0.0560

Moon 110813-12-21 23:44 G 42195032.37 42195032.49 42195032.62 0.2676 0.1600

Earth 110813-12-22 01:39 G 42195032.43 42195032.57 42195032.70 0.2675 0.1287 *

Saturn 110816-02-19 02:51 G 42195821.51 42195821.62 42195821.75 0.0266 0.0196

Saturn 110816-05-17 23:15 G 42195910.29 42195910.47 42195910.66 0.0266 0.0014

Saturn 110816-08-14 19:39 G 42195999.18 42195999.32 42195999.47 0.0266 0.0170

Jupiter 110817-12-16 15:34 G 42196488.02 42196488.15 42196488.27 0.0522 0.0121

Mars 110821-10-28 03:06 G 42197899.52 42197899.63 42197899.75 0.1769 0.0226

Mars 110822-11-26 14:51 G 42198293.95 42198294.12 42198294.28 0.1778 0.0321

Jupiter 110824-01-30 02:51 G 42198723.52 42198723.62 42198723.72 0.0503 0.0413

Jupiter 110824-04-29 10:46 G 42198813.86 42198813.95 42198814.05 0.0507 0.0420

Earth 110824-06-18 19:25 G 42198864.21 42198864.31 42198864.42 0.2657 0.0771

Moon 110824-06-18 19:39 G 42198864.22 42198864.32 42198864.43 0.2663 0.0783 *

Uranus 110825-10-06 12:42 G 42199338.93 42199339.03 42199339.14 0.0139 0.0115

Uranus 110826-01-02 19:39 G 42199427.19 42199427.32 42199427.47 0.0139 0.0089

Uranus 110826-04-01 02:51 G 42199515.47 42199515.62 42199515.80 0.0139 0.0063

Uranus 110826-06-28 10:18 G 42199603.75 42199603.93 42199604.11 0.0139 0.0036

Uranus 110826-09-24 17:30 G 42199692.05 42199692.23 42199692.42 0.0138 0.0010

Uranus 110826-12-22 00:56 G 42199780.35 42199780.54 42199780.73 0.0138 0.0018

Moon 110826-12-25 08:37 G 42199783.79 42199783.86 42199783.93 0.2684 0.2408

Earth 110826-12-25 09:20 G 42199783.82 42199783.89 42199783.95 0.2677 0.2429 *

Uranus 110827-03-20 08:08 G 42199868.67 42199868.84 42199869.02 0.0138 0.0044

Uranus 110827-06-16 15:20 G 42199956.99 42199957.14 42199957.31 0.0138 0.0071

Uranus 110827-09-12 22:32 G 42200045.32 42200045.44 42200045.59 0.0138 0.0099

Uranus 110827-12-10 05:58 G 42200133.69 42200133.75 42200133.84 0.0138 0.0125

Jupiter 110829-10-04 19:39 G 42200798.19 42200798.32 42200798.45 0.0522 0.0037

Saturn 110830-12-18 13:10 G 42201237.95 42201238.05 42201238.16 0.0294 0.0182

Saturn 110831-03-17 01:54 G 42201326.44 42201326.58 42201326.71 0.0294 0.0009

Mars 110831-03-20 13:10 G 42201329.95 42201330.05 42201330.14 0.1777 0.1030

Saturn 110831-06-13 14:08 G 42201414.99 42201415.09 42201415.20 0.0294 0.0168

Mars 110832-04-17 11:15 G 42201723.85 42201723.97 42201724.09 0.1769 0.1198

Jupiter 110836-02-16 07:25 G 42203123.64 42203123.81 42203123.97 0.0506 0.0196

Earth 110837-06-21 12:56 G 42203614.93 42203615.04 42203615.14 0.2656 0.0855

Moon 110837-06-21 13:39 G 42203614.97 42203615.07 42203615.17 0.2655 0.1035 *

Venus 110838-09-01 09:49 G 42204051.84 42204051.91 42204051.98 0.3687 0.2690

Jupiter 110841-07-23 23:58 G 42205108.38 42205108.50 42205108.62 0.0523 0.0193

Jupiter 110841-10-21 06:13 G 42205197.70 42205197.76 42205197.83 0.0520 0.0444

Mars 110842-07-16 06:42 G 42205465.71 42205465.78 42205465.84 0.1752 0.1415

Venus 110844-03-17 02:08 G 42206075.49 42206075.59 42206075.69 0.3683 0.0958

Saturn 110845-07-08 02:37 G 42206553.55 42206553.61 42206553.69 0.0266 0.0244

Saturn 110845-10-04 23:01 G 42206642.28 42206642.46 42206642.64 0.0266 0.0064

Saturn 110846-01-01 19:25 G 42206731.14 42206731.31 42206731.47 0.0266 0.0119

Jupiter 110847-12-05 05:01 G 42207433.53 42207433.71 42207433.89 0.0505 0.0011

Venus 110849-09-30 18:13 G 42208099.15 42208099.26 42208099.36 0.3680 0.0767

Earth 110850-06-24 06:13 G 42208365.73 42208365.76 42208365.80 0.2654 0.2463

Moon 110850-06-24 06:27 G 42208365.74 42208365.77 42208365.81 0.2648 0.2458 *

Venus 110851-04-18 09:06 G 42208663.73 42208663.88 42208664.03 0.3693 0.0097

Mars 110851-12-06 17:01 G 42208896.10 42208896.21 42208896.31 0.1760 0.0658

Jupiter 110853-05-12 03:34 G 42209418.56 42209418.65 42209418.74 0.0524 0.0360

Jupiter 110853-08-09 10:18 G 42209507.82 42209507.93 42209508.03 0.0520 0.0285

Venus 110855-04-16 10:03 G 42210122.84 42210122.92 42210123.00 0.3676 0.2419

Earth 110857-06-17 06:42 G 42210915.72 42210915.78 42210915.85 0.2658 0.2069

Moon 110857-06-17 07:10 G 42210915.73 42210915.80 42210915.87 0.2664 0.2025 *

Jupiter 110859-09-23 02:51 G 42211743.46 42211743.62 42211743.79 0.0505 0.0213

Moon 110859-12-23 08:08 G 42211834.69 42211834.84 42211834.99 0.2683 0.0687

Earth 110859-12-23 08:08 G 42211834.69 42211834.84 42211835.00 0.2676 0.0581 *

Saturn 110860-05-06 14:51 G 42211970.05 42211970.12 42211970.20 0.0295 0.0237

Saturn 110860-08-03 03:34 G 42212058.52 42212058.65 42212058.78 0.0295 0.0060

Saturn 110860-10-30 16:03 G 42212147.05 42212147.17 42212147.29 0.0295 0.0115

Saturn 110861-01-27 04:32 G 42212235.66 42212235.69 42212235.71 0.0295 0.0288

Mars 110861-04-28 03:06 G 42212326.51 42212326.63 42212326.74 0.1769 0.0136

Mars 110862-05-27 15:34 G 42212720.99 42212721.15 42212721.32 0.1778 0.0501

Jupiter 110865-05-28 14:08 G 42213817.96 42213818.09 42213818.21 0.0521 0.0123

Uranus 110868-10-09 16:03 G 42215048.12 42215048.17 42215048.22 0.0139 0.0130

Uranus 110869-01-05 19:25 G 42215136.24 42215136.31 42215136.40 0.0139 0.0110

Uranus 110869-04-03 23:01 G 42215224.37 42215224.46 42215224.57 0.0139 0.0091

Uranus 110869-07-01 02:51 G 42215312.50 42215312.62 42215312.74 0.0139 0.0070

Uranus 110869-09-27 06:27 G 42215400.64 42215400.77 42215400.89 0.0139 0.0051

Uranus 110869-12-24 09:49 G 42215488.78 42215488.91 42215489.05 0.0139 0.0031

Uranus 110870-03-22 13:25 G 42215576.93 42215577.06 42215577.20 0.0140 0.0012

Uranus 110870-06-18 17:01 G 42215665.07 42215665.21 42215665.34 0.0140 0.0008

Earth 110870-06-20 00:13 G 42215666.40 42215666.51 42215666.62 0.2657 0.0429

Moon 110870-06-20 00:56 G 42215666.43 42215666.54 42215666.65 0.2655 0.0289 *

Uranus 110870-09-14 20:22 G 42215753.22 42215753.35 42215753.49 0.0140 0.0028

Mars 110870-09-18 13:10 G 42215756.95 42215757.05 42215757.15 0.1777 0.0924

Uranus 110870-12-11 23:58 G 42215841.37 42215841.50 42215841.63 0.0140 0.0047

Uranus 110871-03-10 03:20 G 42215929.53 42215929.64 42215929.76 0.0140 0.0067

Uranus 110871-06-06 06:56 G 42216017.69 42216017.79 42216017.90 0.0140 0.0086

Jupiter 110871-07-12 00:42 G 42216053.43 42216053.53 42216053.63 0.0503 0.0417

Uranus 110871-09-02 10:18 G 42216105.85 42216105.93 42216106.02 0.0140 0.0106

Jupiter 110871-10-10 08:37 G 42216143.76 42216143.86 42216143.96 0.0507 0.0416

Mars 110871-10-17 12:13 G 42216150.87 42216151.01 42216151.14 0.1769 0.1019

Uranus 110871-11-29 13:39 G 42216194.02 42216194.07 42216194.14 0.0140 0.0125

Neptune 110873-02-09 23:30 G 42216632.44 42216632.48 42216632.53 0.0088 0.0083

Neptune 110873-05-09 00:56 G 42216720.48 42216720.54 42216720.61 0.0088 0.0076

Neptune 110873-08-05 02:22 G 42216808.52 42216808.60 42216808.69 0.0088 0.0069

Neptune 110873-11-01 03:34 G 42216896.57 42216896.65 42216896.76 0.0088 0.0063

Neptune 110874-01-28 05:01 G 42216984.61 42216984.71 42216984.82 0.0088 0.0056

Neptune 110874-04-26 06:27 G 42217072.66 42217072.77 42217072.89 0.0088 0.0049

Neptune 110874-07-23 07:54 G 42217160.71 42217160.83 42217160.95 0.0088 0.0042

Neptune 110874-10-19 09:20 G 42217248.77 42217248.89 42217249.01 0.0088 0.0035

Neptune 110875-01-15 10:32 G 42217336.82 42217336.94 42217337.08 0.0088 0.0029

Saturn 110875-02-21 23:58 G 42217374.33 42217374.50 42217374.67 0.0266 0.0101

Neptune 110875-04-13 11:58 G 42217424.87 42217425.00 42217425.13 0.0088 0.0022

Saturn 110875-05-21 20:22 G 42217463.17 42217463.35 42217463.53 0.0266 0.0081

Neptune 110875-07-10 13:25 G 42217512.93 42217513.06 42217513.19 0.0088 0.0015

Saturn 110875-08-18 16:46 G 42217552.20 42217552.20 42217552.21 0.0266 0.0266

Neptune 110875-10-06 14:37 G 42217600.98 42217601.11 42217601.25 0.0088 0.0009

Neptune 110876-01-02 16:03 G 42217689.04 42217689.17 42217689.31 0.0088 0.0003

Neptune 110876-03-30 17:30 G 42217777.09 42217777.23 42217777.36 0.0088 0.0005

Neptune 110876-06-26 18:42 G 42217865.15 42217865.28 42217865.42 0.0088 0.0012

Neptune 110876-09-22 20:08 G 42217953.21 42217953.34 42217953.47 0.0088 0.0018

Neptune 110876-12-19 21:34 G 42218041.27 42218041.40 42218041.53 0.0088 0.0025

Jupiter 110877-03-16 17:30 G 42218128.10 42218128.23 42218128.36 0.0523 0.0051

Neptune 110877-03-17 22:46 G 42218129.33 42218129.45 42218129.58 0.0088 0.0032

Neptune 110877-06-14 00:13 G 42218217.39 42218217.51 42218217.63 0.0088 0.0038

Neptune 110877-09-10 01:25 G 42218305.45 42218305.56 42218305.68 0.0088 0.0045

Neptune 110877-12-07 02:37 G 42218393.51 42218393.61 42218393.73 0.0088 0.0052

Neptune 110878-03-05 04:03 G 42218481.58 42218481.67 42218481.78 0.0088 0.0058

Neptune 110878-06-01 05:15 G 42218569.64 42218569.72 42218569.82 0.0088 0.0065

Neptune 110878-08-28 06:56 G 42218657.71 42218657.79 42218657.86 0.0088 0.0071

Neptune 110878-11-24 07:54 G 42218745.78 42218745.83 42218745.90 0.0088 0.0078

Neptune 110879-02-20 09:06 G 42218833.86 42218833.88 42218833.93 0.0088 0.0085

Mars 110880-02-08 23:01 G 42219187.44 42219187.46 42219187.48 0.1786 0.1749

Mars 110882-01-14 06:42 G 42219892.72 42219892.78 42219892.83 0.1752 0.1518

Earth 110883-06-22 17:44 G 42220417.14 42220417.24 42220417.33 0.2655 0.1198

Moon 110883-06-22 17:58 G 42220417.15 42220417.25 42220417.34 0.2649 0.1188 *

Jupiter 110883-07-29 05:30 G 42220453.57 42220453.73 42220453.90 0.0506 0.0198

Jupiter 110889-01-02 21:34 G 42222438.28 42222438.40 42222438.52 0.0523 0.0210

Jupiter 110889-04-02 04:03 G 42222527.60 42222527.67 42222527.74 0.0520 0.0428

Saturn 110889-09-23 18:42 G 42222702.22 42222702.28 42222702.34 0.0294 0.0263

Saturn 110889-12-21 07:25 G 42222790.68 42222790.81 42222790.94 0.0294 0.0087

Saturn 110890-03-19 19:54 G 42222879.21 42222879.33 42222879.46 0.0294 0.0088

Saturn 110890-06-16 08:22 G 42222967.79 42222967.85 42222967.91 0.0294 0.0261

Mars 110891-06-06 17:01 G 42223323.10 42223323.21 42223323.31 0.1760 0.0754

Venus 110895-04-08 07:25 G 42224724.73 42224724.81 42224724.90 0.3686 0.2116

Jupiter 110895-05-17 02:08 G 42224763.41 42224763.59 42224763.77 0.0505 0.0027

Venus 110900-10-22 23:44 G 42226748.38 42226748.49 42226748.59 0.3683 0.0405

Jupiter 110900-10-23 01:54 G 42226748.48 42226748.58 42226748.67 0.0524 0.0367 *

Mars 110900-10-28 03:06 G 42226753.51 42226753.63 42226753.74 0.1769 0.0049

Jupiter 110901-01-20 08:22 G 42226837.75 42226837.85 42226837.96 0.0521 0.0280

Mars 110901-11-26 16:32 G 42227148.04 42227148.19 42227148.35 0.1779 0.0686

Venus 110902-05-10 03:34 G 42227312.59 42227312.65 42227312.71 0.3690 0.3360

Earth 110903-06-19 11:30 G 42227717.90 42227717.98 42227718.07 0.2658 0.1724

Moon 110903-06-19 12:13 G 42227717.93 42227718.01 42227718.09 0.2656 0.1664 *

Saturn 110904-07-11 23:58 G 42228106.35 42228106.50 42228106.66 0.0266 0.0147

Saturn 110904-10-08 20:22 G 42228195.16 42228195.35 42228195.53 0.0266 0.0034

Saturn 110905-01-05 16:32 G 42228284.09 42228284.19 42228284.30 0.0266 0.0218

Earth 110905-12-24 14:51 G 42228636.96 42228637.12 42228637.28 0.2676 0.0139

Moon 110905-12-24 16:32 G 42228637.03 42228637.19 42228637.34 0.2679 0.0460 *

Venus 110906-05-08 15:34 G 42228772.06 42228772.15 42228772.25 0.3679 0.1319

Jupiter 110907-03-05 23:58 G 42229073.34 42229073.50 42229073.66 0.0505 0.0229

Venus 110907-11-24 10:46 G 42229336.81 42229336.95 42229337.09 0.3695 0.1423

Uranus 110909-07-31 12:13 G 42229951.99 42229952.01 42229952.06 0.0139 0.0136

Uranus 110909-10-27 19:39 G 42230040.21 42230040.32 42230040.43 0.0139 0.0109

Uranus 110910-01-24 02:51 G 42230128.47 42230128.62 42230128.77 0.0139 0.0083

Mars 110910-03-20 12:56 G 42230183.94 42230184.04 42230184.15 0.1777 0.0835

Uranus 110910-04-22 09:49 G 42230216.75 42230216.91 42230217.09 0.0139 0.0057

Uranus 110910-07-19 17:15 G 42230305.04 42230305.22 42230305.40 0.0139 0.0030

Uranus 110910-10-16 00:27 G 42230393.33 42230393.52 42230393.71 0.0138 0.0004

Uranus 110911-01-12 07:39 G 42230481.64 42230481.82 42230482.01 0.0138 0.0023

Uranus 110911-04-10 14:51 G 42230569.95 42230570.12 42230570.30 0.0138 0.0050

Mars 110911-04-18 12:56 G 42230577.89 42230578.04 42230578.19 0.1769 0.0845

Uranus 110911-07-07 22:18 G 42230658.28 42230658.43 42230658.59 0.0138 0.0077

Uranus 110911-10-04 05:44 G 42230746.62 42230746.74 42230746.87 0.0138 0.0103

Venus 110911-11-22 07:39 G 42230795.76 42230795.82 42230795.88 0.3676 0.2962

Uranus 110911-12-31 12:56 G 42230834.99 42230835.04 42230835.11 0.0138 0.0130

Jupiter 110912-11-08 12:27 G 42231147.90 42231148.02 42231148.15 0.0521 0.0119

Moon 110916-06-21 05:01 G 42232468.60 42232468.71 42232468.82 0.2650 0.0095

Earth 110916-06-21 05:01 G 42232468.60 42232468.71 42232468.82 0.2657 0.0086 *

Jupiter 110918-12-22 22:03 G 42233383.33 42233383.42 42233383.51 0.0504 0.0427

Jupiter 110919-03-23 05:58 G 42233473.65 42233473.75 42233473.86 0.0507 0.0407

Saturn 110919-05-11 08:51 G 42233522.76 42233522.87 42233522.99 0.0295 0.0145

Saturn 110919-08-07 21:20 G 42233611.26 42233611.39 42233611.53 0.0295 0.0033

Mars 110919-08-10 23:01 G 42233614.42 42233614.46 42233614.50 0.1786 0.1658

Saturn 110919-11-04 09:49 G 42233699.82 42233699.91 42233700.01 0.0295 0.0206

Mars 110921-07-16 06:27 G 42234319.73 42234319.77 42234319.82 0.1752 0.1607

Jupiter 110924-08-27 16:18 G 42235458.05 42235458.18 42235458.31 0.0522 0.0046

Moon 110929-06-23 21:49 G 42237219.32 42237219.41 42237219.50 0.2652 0.1378

Earth 110929-06-23 22:32 G 42237219.35 42237219.44 42237219.53 0.2655 0.1539 *

Mars 110930-12-06 16:46 G 42237750.10 42237750.20 42237750.30 0.1760 0.0851

Jupiter 110931-01-09 03:20 G 42237783.48 42237783.64 42237783.81 0.0506 0.0195

Saturn 110933-11-29 00:42 G 42238838.40 42238838.53 42238838.66 0.0266 0.0188

Saturn 110934-02-25 21:06 G 42238927.19 42238927.38 42238927.56 0.0266 0.0009

Saturn 110934-05-25 17:15 G 42239016.09 42239016.22 42239016.37 0.0266 0.0177

Pluto 110935-08-22 13:39 G 42239470.01 42239470.07 42239470.19 0.0060 0.0053

Pluto 110935-11-18 15:20 G 42239558.02 42239558.14 42239558.29 0.0060 0.0043

Pluto 110936-02-14 16:32 G 42239646.05 42239646.19 42239646.38 0.0060 0.0034

Pluto 110936-05-12 18:13 G 42239734.09 42239734.26 42239734.45 0.0060 0.0024

Jupiter 110936-06-15 19:39 G 42239768.20 42239768.32 42239768.44 0.0523 0.0221

Pluto 110936-08-08 19:25 G 42239822.14 42239822.31 42239822.52 0.0060 0.0015

Jupiter 110936-09-13 02:08 G 42239857.51 42239857.59 42239857.66 0.0520 0.0418

Pluto 110936-11-04 21:06 G 42239910.19 42239910.38 42239910.58 0.0060 0.0005

Pluto 110937-01-31 22:32 G 42239998.24 42239998.44 42239998.64 0.0060 0.0005

Pluto 110937-04-29 23:44 G 42240086.31 42240086.49 42240086.69 0.0060 0.0014

Pluto 110937-07-27 00:56 G 42240174.38 42240174.54 42240174.74 0.0060 0.0024

Pluto 110937-10-23 02:37 G 42240262.45 42240262.61 42240262.78 0.0060 0.0034

Pluto 110938-01-19 03:49 G 42240350.54 42240350.66 42240350.81 0.0060 0.0043

Pluto 110938-04-17 04:46 G 42240438.64 42240438.70 42240438.82 0.0060 0.0054

Moon 110938-12-22 15:49 G 42240688.14 42240688.16 42240688.18 0.2675 0.2650

Mars 110940-04-28 03:06 G 42241180.51 42241180.63 42241180.74 0.1768 0.0074

Mars 110941-05-27 17:15 G 42241575.07 42241575.22 42241575.37 0.1779 0.0850

Jupiter 110942-10-28 00:27 G 42242093.34 42242093.52 42242093.70 0.0505 0.0022

Venus 110946-04-30 12:56 G 42243373.99 42243374.04 42243374.08 0.3688 0.3292

Jupiter 110948-04-03 23:30 G 42244078.39 42244078.48 42244078.57 0.0524 0.0384

Jupiter 110948-07-02 06:13 G 42244167.65 42244167.76 42244167.88 0.0521 0.0265

Saturn 110948-09-27 12:27 G 42244254.92 42244255.02 42244255.13 0.0294 0.0172

Saturn 110948-12-25 01:10 G 42244343.42 42244343.55 42244343.68 0.0294 0.0004

Saturn 110949-03-23 13:39 G 42244431.97 42244432.07 42244432.17 0.0294 0.0179

Moon 110949-06-19 16:18 G 42244520.08 42244520.18 42244520.27 0.2651 0.1368

Earth 110949-06-19 16:18 G 42244520.09 42244520.18 42244520.28 0.2658 0.1381 *

Mars 110949-09-18 12:56 G 42244610.94 42244611.04 42244611.15 0.1777 0.0734

Mars 110950-10-17 13:39 G 42245004.91 42245005.07 42245005.23 0.1770 0.0679

Venus 110951-11-14 05:15 G 42245397.62 42245397.72 42245397.81 0.3685 0.1541

Earth 110951-12-25 21:34 G 42245439.25 42245439.40 42245439.55 0.2676 0.0844

Moon 110951-12-25 22:32 G 42245439.30 42245439.44 42245439.59 0.2672 0.1084 *

Uranus 110952-10-30 23:15 G 42245749.42 42245749.47 42245749.54 0.0139 0.0124

Uranus 110953-01-27 02:51 G 42245837.54 42245837.62 42245837.72 0.0139 0.0105

Uranus 110953-04-25 06:27 G 42245925.67 42245925.77 42245925.88 0.0139 0.0085

Uranus 110953-07-22 10:03 G 42246013.81 42246013.92 42246014.05 0.0139 0.0065

Uranus 110953-10-18 13:39 G 42246101.95 42246102.07 42246102.20 0.0139 0.0045

Uranus 110954-01-14 17:15 G 42246190.09 42246190.22 42246190.35 0.0139 0.0026

Uranus 110954-04-12 20:51 G 42246278.23 42246278.37 42246278.50 0.0140 0.0007

Uranus 110954-07-10 00:13 G 42246366.38 42246366.51 42246366.65 0.0140 0.0014

Jupiter 110954-08-15 21:06 G 42246403.22 42246403.38 42246403.54 0.0504 0.0242

Uranus 110954-10-06 03:49 G 42246454.53 42246454.66 42246454.79 0.0140 0.0033

Uranus 110955-01-02 07:10 G 42246542.68 42246542.80 42246542.93 0.0140 0.0053

Uranus 110955-03-31 10:46 G 42246630.84 42246630.95 42246631.07 0.0140 0.0072

Uranus 110955-06-27 14:22 G 42246719.00 42246719.10 42246719.20 0.0140 0.0091

Uranus 110955-09-23 17:30 G 42246807.16 42246807.23 42246807.32 0.0140 0.0111

Uranus 110955-12-20 21:06 G 42246895.34 42246895.38 42246895.43 0.0140 0.0130

Neptune 110957-04-10 01:54 G 42247371.53 42247371.58 42247371.66 0.0089 0.0084

Venus 110957-05-29 21:20 G 42247421.28 42247421.39 42247421.49 0.3682 0.0210

Neptune 110957-07-07 05:44 G 42247459.63 42247459.74 42247459.84 0.0089 0.0074

Neptune 110957-10-03 08:51 G 42247547.75 42247547.87 42247548.01 0.0089 0.0064

Neptune 110957-12-30 12:27 G 42247635.88 42247636.02 42247636.18 0.0089 0.0054

Neptune 110958-03-28 16:03 G 42247724.01 42247724.17 42247724.33 0.0089 0.0045

Neptune 110958-06-24 19:10 G 42247812.14 42247812.30 42247812.49 0.0089 0.0035

Neptune 110958-09-20 22:46 G 42247900.28 42247900.45 42247900.64 0.0089 0.0025

Venus 110958-12-15 05:15 G 42247985.59 42247985.72 42247985.85 0.3691 0.1895

Neptune 110958-12-18 02:22 G 42247988.42 42247988.60 42247988.79 0.0089 0.0015

Mars 110959-02-08 23:01 G 42248041.40 42248041.46 42248041.51 0.1785 0.1557

Neptune 110959-03-16 05:58 G 42248076.56 42248076.75 42248076.94 0.0089 0.0005

Neptune 110959-06-12 09:20 G 42248164.70 42248164.89 42248165.08 0.0089 0.0005

Neptune 110959-09-08 12:56 G 42248252.85 42248253.04 42248253.23 0.0089 0.0014

Neptune 110959-12-05 16:18 G 42248341.00 42248341.18 42248341.37 0.0089 0.0025

Neptune 110960-03-02 19:39 G 42248429.16 42248429.32 42248429.51 0.0089 0.0035

Jupiter 110960-04-20 10:46 G 42248477.82 42248477.95 42248478.08 0.0522 0.0114

Neptune 110960-05-29 23:15 G 42248517.31 42248517.47 42248517.65 0.0089 0.0044

Neptune 110960-08-26 02:37 G 42248605.48 42248605.61 42248605.78 0.0089 0.0055

Neptune 110960-11-22 06:13 G 42248693.64 42248693.76 42248693.91 0.0089 0.0065

Mars 110961-01-14 06:27 G 42248746.75 42248746.77 42248746.80 0.1752 0.1704

Neptune 110961-02-18 09:49 G 42248781.82 42248781.91 42248782.03 0.0089 0.0075

Neptune 110961-05-17 13:25 G 42248870.01 42248870.06 42248870.13 0.0089 0.0084

Moon 110962-06-22 09:20 G 42249270.78 42249270.89 42249271.00 0.2654 0.0156

Earth 110962-06-22 09:49 G 42249270.80 42249270.91 42249271.02 0.2656 0.0261 *

Venus 110962-12-13 13:10 G 42249444.96 42249445.05 42249445.14 0.3678 0.1869

Saturn 110963-04-18 00:56 G 42249570.46 42249570.54 42249570.64 0.0266 0.0231

Saturn 110963-07-15 21:06 G 42249659.21 42249659.38 42249659.57 0.0266 0.0052

Saturn 110963-10-12 17:30 G 42249748.07 42249748.23 42249748.39 0.0265 0.0131

Venus 110964-06-30 12:42 G 42250009.94 42250010.03 42250010.12 0.3696 0.2965

Jupiter 110966-06-03 18:56 G 42250713.21 42250713.29 42250713.38 0.0504 0.0441

Jupiter 110966-09-02 02:51 G 42250803.51 42250803.62 42250803.74 0.0507 0.0391

Venus 110968-06-28 05:01 G 42251468.69 42251468.71 42251468.74 0.3675 0.3504

Mars 110970-06-06 16:46 G 42252177.11 42252177.20 42252177.30 0.1760 0.0946

Jupiter 110972-02-07 14:51 G 42252787.99 42252788.12 42252788.25 0.0522 0.0050

Moon 110975-06-25 02:37 G 42254021.54 42254021.61 42254021.69 0.2659 0.1849

Earth 110975-06-25 03:20 G 42254021.56 42254021.64 42254021.71 0.2655 0.1878 *

Saturn 110978-02-14 13:39 G 42254987.00 42254987.07 42254987.15 0.0295 0.0234

Saturn 110978-05-14 02:22 G 42255075.47 42255075.60 42255075.73 0.0295 0.0057

Jupiter 110978-06-21 00:42 G 42255113.36 42255113.53 42255113.70 0.0506 0.0185

Saturn 110978-08-10 14:51 G 42255164.00 42255164.12 42255164.24 0.0295 0.0119

Saturn 110978-11-07 03:20 G 42255252.63 42255252.64 42255252.65 0.0295 0.0292

Mars 110979-10-28 02:51 G 42255607.51 42255607.62 42255607.74 0.1768 0.0168

Mars 110980-11-25 18:13 G 42256002.12 42256002.26 42256002.40 0.1779 0.1037

Jupiter 110983-11-26 18:27 G 42257098.15 42257098.27 42257098.39 0.0523 0.0213

Jupiter 110984-02-24 00:56 G 42257187.47 42257187.54 42257187.61 0.0520 0.0424

Earth 110984-12-22 20:51 G 42257490.27 42257490.37 42257490.46 0.2675 0.2105

Moon 110984-12-22 21:34 G 42257490.29 42257490.40 42257490.51 0.2669 0.1907 *

Mars 110989-03-19 12:56 G 42259037.94 42259038.04 42259038.15 0.1777 0.0635

Jupiter 110990-04-08 22:32 G 42259423.26 42259423.44 42259423.62 0.0505 0.0023

Mars 110990-04-17 14:37 G 42259431.95 42259432.11 42259432.27 0.1770 0.0492

Saturn 110992-12-01 21:20 G 42260391.22 42260391.39 42260391.57 0.0266 0.0096

Saturn 110993-02-28 17:44 G 42260480.06 42260480.24 42260480.42 0.0266 0.0086

Uranus 110993-08-20 19:10 G 42260653.25 42260653.30 42260653.38 0.0139 0.0130

Uranus 110993-11-17 02:22 G 42260741.49 42260741.60 42260741.73 0.0139 0.0104

Uranus 110994-02-13 09:49 G 42260829.75 42260829.91 42260830.06 0.0139 0.0077

Uranus 110994-05-12 16:46 G 42260918.03 42260918.20 42260918.38 0.0139 0.0051

Uranus 110994-08-08 23:58 G 42261006.32 42261006.50 42261006.69 0.0139 0.0025

Uranus 110994-11-05 07:25 G 42261094.62 42261094.81 42261095.00 0.0139 0.0003

Uranus 110995-02-01 14:37 G 42261182.93 42261183.11 42261183.29 0.0138 0.0029

Uranus 110995-04-30 21:49 G 42261271.24 42261271.41 42261271.59 0.0138 0.0056

Moon 110995-06-20 20:22 G 42261322.25 42261322.35 42261322.45 0.2656 0.1108

Earth 110995-06-20 21:06 G 42261322.28 42261322.38 42261322.48 0.2658 0.1035 *

Uranus 110995-07-28 05:01 G 42261359.57 42261359.71 42261359.87 0.0138 0.0083

Jupiter 110995-09-14 21:34 G 42261408.32 42261408.40 42261408.49 0.0524 0.0391

Uranus 110995-10-24 12:27 G 42261447.91 42261448.02 42261448.14 0.0138 0.0109

Jupiter 110995-12-13 04:32 G 42261497.58 42261497.69 42261497.80 0.0521 0.0257

Uranus 110996-01-20 19:39 G 42261536.30 42261536.32 42261536.36 0.0138 0.0136

Moon 110997-12-26 03:20 G 42262241.50 42262241.64 42262241.78 0.2671 0.1326

Earth 110997-12-26 04:18 G 42262241.56 42262241.68 42262241.81 0.2677 0.1583 *

Mars 110998-08-09 23:01 G 42262468.39 42262468.46 42262468.52 0.1785 0.1458*

112TH MILLENNIUM CE

This is a list of transits of Mercury in the 112th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**111002-01-26 19:54**	**G**	**42263733.17**	**42263733.33**	**42263733.49**	**0.0504**	**0.0230**	
Venus	**111002-12-06 10:32**	**G**	**42264046.87**	**42264046.94**	**42264047.01**	**0.3687**	**0.2704**	
Saturn	**111007-07-05 17:01**	**G**	**42265719.16**	**42265719.21**	**42265719.27**	**0.0294**	**0.0265**	
Saturn	**111007-10-02 05:44**	**G**	**42265807.62**	**42265807.74**	**42265807.87**	**0.0294**	**0.0088**	
Jupiter	**111007-10-02 08:37**	**G**	**42265807.74**	**42265807.86**	**42265807.99**	**0.0522**	**0.0102**	*
Saturn	**111007-12-29 18:27**	**G**	**42265896.14**	**42265896.27**	**42265896.39**	**0.0294**	**0.0088**	
Saturn	**111008-03-27 06:42**	**G**	**42265984.73**	**42265984.78**	**42265984.84**	**0.0294**	**0.0261**	
Venus	**111008-06-21 02:51**	**G**	**42266070.51**	**42266070.62**	**42266070.72**	**0.3684**	**0.0969**	
Moon	**111008-06-23 14:08**	**G**	**42266072.99**	**42266073.09**	**42266073.20**	**0.2662**	**0.0501**	
Earth	**111008-06-23 14:37**	**G**	**42266073.00**	**42266073.11**	**42266073.22**	**0.2656**	**0.0600**	*
Mars	**111009-12-06 16:46**	**G**	**42266604.11**	**42266604.20**	**42266604.29**	**0.1760**	**0.1043**	
Jupiter	**111013-11-14 16:32**	**G**	**42268043.11**	**42268043.19**	**42268043.27**	**0.0503**	**0.0450**	
Venus	**111014-01-04 18:56**	**G**	**42268094.18**	**42268094.29**	**42268094.39**	**0.3681**	**0.0756**	
Jupiter	**111014-02-12 23:58**	**G**	**42268133.39**	**42268133.50**	**42268133.63**	**0.0507**	**0.0380**	
Venus	**111015-07-23 06:56**	**G**	**42268658.64**	**42268658.79**	**42268658.94**	**0.3692**	**0.0426**	
Mars	**111019-04-29 02:51**	**G**	**42270034.51**	**42270034.62**	**42270034.74**	**0.1768**	**0.0262**	
Venus	**111019-07-21 10:46**	**G**	**42270117.87**	**42270117.95**	**42270118.03**	**0.3677**	**0.2412**	
Jupiter	**111019-07-21 13:10**	**G**	**42270117.92**	**42270118.05**	**42270118.18**	**0.0523**	**0.0051**	*
Mars	**111020-05-27 19:10**	**G**	**42270429.18**	**42270429.30**	**42270429.42**	**0.1780**	**0.1224**	
Earth	**111021-06-26 08:08**	**G**	**42270823.78**	**42270823.84**	**42270823.89**	**0.2654**	**0.2212**	
Moon	**111021-06-26 08:22**	**G**	**42270823.80**	**42270823.85**	**42270823.90**	**0.2660**	**0.2307**	*
Saturn	**111022-04-21 21:49**	**G**	**42271123.26**	**42271123.41**	**42271123.57**	**0.0266**	**0.0139**	

Saturn 111022-07-19 18:13 G 42271212.07 42271212.26 42271212.44 0.0265 0.0043

Saturn 111022-10-16 14:22 G 42271301.01 42271301.10 42271301.20 0.0265 0.0225

Jupiter 111025-12-01 21:49 G 42272443.24 42272443.41 42272443.58 0.0506 0.0172

Moon 111028-06-19 07:39 G 42273373.78 42273373.82 42273373.86 0.2659 0.2428

Earth 111028-06-19 08:22 G 42273373.80 42273373.85 42273373.90 0.2659 0.2341 *

Mars 111028-09-18 12:56 G 42273464.93 42273465.04 42273465.15 0.1776 0.0539

Mars 111029-10-17 15:20 G 42273858.97 42273859.14 42273859.31 0.1770 0.0327

Moon 111030-12-25 01:54 G 42274292.45 42274292.58 42274292.72 0.2672 0.1515

Earth 111030-12-25 03:34 G 42274292.51 42274292.65 42274292.78 0.2675 0.1391 *

Jupiter 111031-05-09 17:01 G 42274428.10 42274428.21 42274428.33 0.0523 0.0212

Pluto 111031-05-17 09:34 G 42274435.84 42274435.90 42274435.98 0.0085 0.0072

Jupiter 111031-08-06 23:30 G 42274517.41 42274517.48 42274517.56 0.0520 0.0426

Pluto 111031-08-13 11:01 G 42274523.86 42274523.96 42274524.06 0.0085 0.0053

Pluto 111031-11-09 12:13 G 42274611.89 42274612.01 42274612.13 0.0085 0.0035

Pluto 111032-02-05 13:25 G 42274699.93 42274700.06 42274700.19 0.0084 0.0017

Pluto 111032-05-03 14:37 G 42274787.98 42274788.11 42274788.24 0.0084 0.0002

Pluto 111032-07-30 15:49 G 42274876.03 42274876.16 42274876.29 0.0084 0.0020

Pluto 111032-10-26 17:01 G 42274964.09 42274964.21 42274964.33 0.0084 0.0037

Pluto 111033-01-22 18:13 G 42275052.16 42275052.26 42275052.36 0.0084 0.0055

Pluto 111033-04-20 19:10 G 42275140.25 42275140.30 42275140.37 0.0084 0.0073

Uranus 111036-08-25 03:06 G 42276362.62 42276362.63 42276362.65 0.0139 0.0138

Uranus 111036-11-21 06:42 G 42276450.72 42276450.78 42276450.86 0.0139 0.0118

Uranus 111037-02-17 10:32 G 42276538.84 42276538.94 42276539.03 0.0139 0.0098

Saturn 111037-02-18 06:42 G 42276539.67 42276539.78 42276539.90 0.0295 0.0153

Uranus 111037-05-16 13:54 G 42276626.97 42276627.08 42276627.20 0.0139 0.0079

Saturn 111037-05-17 19:25 G 42276628.18 42276628.31 42276628.44 0.0295 0.0024

Uranus 111037-08-12 17:30 G 42276715.11 42276715.23 42276715.36 0.0139 0.0059

Neptune 111037-08-12 21:34 G 42276715.39 42276715.40 42276715.42 0.0088 0.0087

Saturn 111037-08-14 07:54 G 42276716.73 42276716.83 42276716.93 0.0295 0.0198

Jupiter 111037-09-19 19:54 G 42276753.15 42276753.33 42276753.51 0.0505 0.0030

Uranus 111037-11-08 21:06 G 42276803.25 42276803.38 42276803.51 0.0139 0.0040

Neptune 111037-11-08 23:15 G 42276803.41 42276803.47 42276803.52 0.0088 0.0081 *

Uranus 111038-02-05 00:42 G 42276891.40 42276891.53 42276891.67 0.0139 0.0020

Neptune 111038-02-05 00:13 G 42276891.45 42276891.51 42276891.60 0.0088 0.0074 *

Mars 111038-02-08 22:46 G 42276895.38 42276895.45 42276895.53 0.1785 0.1364

Neptune 111038-05-04 01:39 G 42276979.50 42276979.57 42276979.67 0.0088 0.0067

Uranus 111038-05-04 04:18 G 42276979.54 42276979.68 42276979.81 0.0139 0.0002 *

Neptune 111038-07-31 03:06 G 42277067.54 42277067.63 42277067.74 0.0088 0.0060

Uranus 111038-07-31 07:39 G 42277067.69 42277067.82 42277067.96 0.0140 0.0020 *

Neptune 111038-10-27 04:32 G 42277155.59 42277155.69 42277155.81 0.0088 0.0054

Uranus 111038-10-27 11:15 G 42277155.84 42277155.97 42277156.10 0.0140 0.0039

Neptune 111039-01-23 06:13 G 42277243.64 42277243.76 42277243.87 0.0088 0.0047

Uranus 111039-01-23 14:37 G 42277244.00 42277244.11 42277244.24 0.0140 0.0059

Neptune 111039-04-21 07:25 G 42277331.69 42277331.81 42277331.93 0.0088 0.0040

Uranus 111039-04-21 18:13 G 42277332.15 42277332.26 42277332.37 0.0140 0.0078

Neptune 111039-07-18 08:51 G 42277419.74 42277419.87 42277420.00 0.0088 0.0033

Uranus 111039-07-18 21:34 G 42277420.31 42277420.40 42277420.50 0.0140 0.0097

Neptune 111039-10-14 10:03 G 42277507.80 42277507.92 42277508.06 0.0088 0.0027

Uranus 111039-10-15 01:10 G 42277508.48 42277508.55 42277508.62 0.0140 0.0116

Neptune 111040-01-10 11:30 G 42277595.85 42277595.98 42277596.12 0.0088 0.0020

Uranus 111040-01-11 04:32 G 42277596.67 42277596.69 42277596.73 0.0140 0.0136

Neptune 111040-04-07 12:56 G 42277683.91 42277684.04 42277684.17 0.0088 0.0013

Neptune 111040-07-04 14:22 G 42277771.96 42277772.10 42277772.23 0.0088 0.0006

Neptune 111040-09-30 15:34 G 42277860.02 42277860.15 42277860.29 0.0088 0.0002

Neptune 111040-12-27 17:01 G 42277948.08 42277948.21 42277948.34 0.0088 0.0007

Neptune 111041-03-25 18:27 G 42278036.13 42278036.27 42278036.40 0.0088 0.0014

Neptune 111041-06-21 19:39 G 42278124.19 42278124.32 42278124.45 0.0088 0.0021

Moon 111041-06-22 01:39 G 42278124.47 42278124.57 42278124.68 0.2663 0.0777

Earth 111041-06-22 01:54 G 42278124.47 42278124.58 42278124.69 0.2657 0.0692 *

Neptune 111041-09-17 20:51 G 42278212.25 42278212.37 42278212.51 0.0088 0.0028

Neptune 111041-12-14 22:18 G 42278300.31   42278300.43   42278300.56 0.0088 0.0034

Neptune 111042-03-12 23:30 G 42278388.37   42278388.48   42278388.61 0.0088 0.0041

Neptune 111042-06-09 00:56 G 42278476.43   42278476.54   42278476.66 0.0088 0.0048

Neptune 111042-09-05 02:22 G 42278564.50   42278564.60   42278564.71 0.0088 0.0054

Neptune 111042-12-02 03:34 G 42278652.56   42278652.65   42278652.75 0.0088 0.0061

Jupiter 111043-02-25 20:51 G 42278738.28   42278738.37   42278738.46 0.0524 0.0378

Neptune 111043-02-28 05:01 G 42278740.63   42278740.71   42278740.80 0.0088 0.0067

Jupiter 111043-05-26 03:34 G 42278827.54   42278827.65   42278827.76 0.0521 0.0268

Neptune 111043-05-27 06:13 G 42278828.70   42278828.76   42278828.84 0.0088 0.0074

Neptune 111043-08-23 07:25 G 42278916.77   42278916.81   42278916.88 0.0088 0.0081

Neptune 111043-11-19 08:51 G 42279004.86   42279004.87   42279004.89 0.0088 0.0087

Moon   111043-12-28 09:20 G 42279043.79   42279043.89   42279044.00 0.2678 0.1991

Earth   111043-12-28 11:01 G 42279043.89   42279043.96   42279044.04 0.2677 0.2306 *

Mars   111049-06-06 16:46 G 42281031.11   42281031.20   42281031.29 0.1760 0.1139

Jupiter 111049-07-08 17:58 G 42281063.09   42281063.25   42281063.41 0.0504 0.0230

Saturn   111051-09-08 21:20 G 42281855.27   42281855.39   42281855.52 0.0266 0.0190

Saturn   111051-12-06 17:30 G 42281944.05   42281944.23   42281944.42 0.0266 0.0010

Saturn   111052-03-04 13:39 G 42282032.94   42282033.07   42282033.22 0.0266 0.0174

Earth   111054-06-24 19:25 G 42282875.21   42282875.31   42282875.41 0.2656 0.0938

Moon   111054-06-24 19:54 G 42282875.23   42282875.33   42282875.42 0.2661 0.1066 *

Jupiter 111055-03-14 07:10 G 42283137.67   42283137.80   42283137.93 0.0522 0.0099

Mars   111058-10-28 02:51 G 42284461.51   42284461.62   42284461.74 0.1768 0.0371

Venus   111059-07-13 08:08 G 42284719.76   42284719.84   42284719.93 0.3687 0.2121

Mars   111059-11-26 19:39 G 42284856.22   42284856.32   42284856.43 0.1780 0.1386

Jupiter 111061-04-26 15:34 G 42285373.07   42285373.15   42285373.24 0.0503 0.0434

Jupiter 111061-07-25 23:15 G 42285463.36   42285463.47   42285463.58 0.0506 0.0396

Venus   111065-01-26 00:27 G 42286743.41   42286743.52   42286743.62 0.3683 0.0398

Saturn   111066-07-08 09:49 G 42287271.81   42287271.91   42287272.02 0.0294 0.0188

Venus   111066-08-13 01:25 G 42287307.54   42287307.56   42287307.59 0.3689 0.3635

Saturn   111066-10-04 22:32 G 42287360.31   42287360.44   42287360.58 0.0294 0.0013

Jupiter 111066-12-31 11:15 G 42287447.84 42287447.97 42287448.10 0.0523 0.0059

Saturn 111067-01-01 11:01 G 42287448.85 42287448.96 42287449.07 0.0294 0.0164

Earth 111067-06-27 12:42 G 42287626.01 42287626.03 42287626.06 0.2654 0.2547

Moon 111067-06-27 13:25 G 42287626.05 42287626.06 42287626.08 0.2652 0.2602 *

Mars 111068-03-19 12:56 G 42287891.93 42287892.04 42287892.15 0.1776 0.0446

Mars 111069-04-17 16:18 G 42288286.01 42288286.18 42288286.35 0.1770 0.0152

Venus 111070-08-11 16:32 G 42288767.09 42288767.19 42288767.28 0.3680 0.1311

Venus 111072-02-27 08:37 G 42289331.71 42289331.86 42289332.00 0.3694 0.1076

Jupiter 111073-05-13 19:25 G 42289773.14 42289773.31 42289773.48 0.0506 0.0165

Moon 111074-06-20 12:56 G 42290175.97 42290176.04 42290176.11 0.2665 0.1995

Earth 111074-06-20 13:10 G 42290175.98 42290176.05 42290176.12 0.2659 0.1995 *

Venus 111076-02-25 08:22 G 42290790.79 42290790.85 42290790.91 0.3677 0.2951

Moon 111076-12-25 08:37 G 42291094.72 42291094.86 42291095.01 0.2679 0.1003

Earth 111076-12-25 10:18 G 42291094.77 42291094.93 42291095.08 0.2675 0.0675 *

Mars 111077-08-09 22:46 G 42291322.37 42291322.45 42291322.53 0.1785 0.1263

Uranus 111077-09-11 01:54 G 42291354.51 42291354.58 42291354.66 0.0139 0.0125

Uranus 111077-12-08 08:51 G 42291442.75 42291442.87 42291443.01 0.0139 0.0099

Uranus 111078-03-06 16:03 G 42291531.02 42291531.17 42291531.33 0.0139 0.0073

Uranus 111078-06-02 23:15 G 42291619.30 42291619.47 42291619.65 0.0139 0.0047

Uranus 111078-08-30 06:27 G 42291707.59 42291707.77 42291707.96 0.0139 0.0020

Mars 111078-09-07 13:10 G 42291715.99 42291716.05 42291716.11 0.1761 0.1625

Jupiter 111078-10-19 15:34 G 42291758.03 42291758.15 42291758.27 0.0524 0.0213

Uranus 111078-11-26 13:39 G 42291795.89 42291796.07 42291796.26 0.0139 0.0008

Jupiter 111079-01-16 22:03 G 42291847.35 42291847.42 42291847.50 0.0520 0.0427

Uranus 111079-02-22 20:51 G 42291884.20 42291884.37 42291884.56 0.0138 0.0034

Uranus 111079-05-22 04:18 G 42291972.51 42291972.68 42291972.85 0.0138 0.0060

Uranus 111079-08-18 11:30 G 42292060.84 42292060.98 42292061.13 0.0138 0.0087

Uranus 111079-11-14 18:42 G 42292149.19 42292149.28 42292149.40 0.0138 0.0114

Saturn 111081-01-25 22:03 G 42292587.33 42292587.42 42292587.51 0.0266 0.0231

Saturn 111081-04-24 17:58 G 42292676.07 42292676.25 42292676.44 0.0265 0.0052

Saturn 111081-07-22 14:22 G 42292764.94 42292765.10 42292765.26 0.0265 0.0130

Jupiter 111085-03-01 17:15 G 42294083.04 42294083.22 42294083.40 0.0505 0.0038

Earth 111087-06-23 06:42 G 42294926.67 42294926.78 42294926.89 0.2657 0.0347

Moon 111087-06-23 07:10 G 42294926.69 42294926.80 42294926.91 0.2662 0.0303 *

Mars 111088-12-05 16:46 G 42295458.12 42295458.20 42295458.28 0.1759 0.1237

Jupiter 111090-08-07 19:39 G 42296068.23 42296068.32 42296068.41 0.0524 0.0374

Jupiter 111090-11-05 02:22 G 42296157.49 42296157.60 42296157.71 0.0521 0.0272

Saturn 111095-11-25 10:32 G 42298003.88 42298003.94 42298004.00 0.0295 0.0258

Saturn 111096-02-21 23:15 G 42298092.34 42298092.47 42298092.59 0.0295 0.0081

Saturn 111096-05-20 11:44 G 42298180.86 42298180.99 42298181.11 0.0295 0.0095

Saturn 111096-08-17 00:13 G 42298269.46 42298269.51 42298269.56 0.0295 0.0269

Jupiter 111096-12-18 15:34 G 42298392.99 42298393.15 42298393.31 0.0504 0.0236

Mars 111098-04-28 02:51 G 42298888.51 42298888.62 42298888.73 0.1768 0.0455

Mars 111099-05-27 20:37 G 42299283.29 42299283.36 42299283.44 0.1780 0.1576

Earth 111100-06-26 00:13 G 42299677.41 42299677.51 42299677.60 0.2655 0.1277

Moon 111100-06-26 00:42 G 42299677.44 42299677.53 42299677.63 0.2652 0.1414 *

Jupiter 111102-08-25 06:27 G 42300467.64 42300467.77 42300467.89 0.0521 0.0114

Mars 111107-09-19 12:56 G 42302318.93 42302319.04 42302319.15 0.1776 0.0337

Jupiter 111108-10-07 13:54 G 42302702.99 42302703.08 42302703.17 0.0504 0.0430

Mars 111108-10-17 17:01 G 42302713.04 42302713.21 42302713.38 0.1770 0.0037

Jupiter 111109-01-05 21:34 G 42302793.29 42302793.40 42302793.51 0.0507 0.0400

Venus 111110-08-04 13:39 G 42303369.02 42303369.07 42303369.11 0.3689 0.3301

Saturn 111110-09-12 16:46 G 42303408.04 42303408.20 42303408.38 0.0266 0.0109

Saturn 111110-12-10 13:10 G 42303496.87 42303497.05 42303497.23 0.0266 0.0073

Saturn 111111-03-09 09:34 G 42303585.85 42303585.90 42303585.95 0.0265 0.0256

Jupiter 111114-06-13 09:49 G 42304777.78 42304777.91 42304778.04 0.0522 0.0058

Venus 111116-02-18 05:44 G 42305392.65 42305392.74 42305392.84 0.3686 0.1552

Mars 111117-02-08 22:46 G 42305749.37 42305749.45 42305749.54 0.1785 0.1163

Mars 111118-03-09 13:39 G 42306142.98 42306143.07 42306143.17 0.1761 0.1470

Earth 111120-06-21 17:58 G 42306978.16 42306978.25 42306978.33 0.2658 0.1647

Moon 111120-06-21 18:42 G 42306978.19 42306978.28 42306978.36 0.2661 0.1582 *

Uranus 111120-09-15 10:32 G 42307063.90 42307063.94 42307063.98 0.0139 0.0132

Jupiter 111120-10-24 18:56 G 42307103.12 42307103.29 42307103.46 0.0506 0.0187

Uranus 111120-12-12 14:08 G 42307152.02 42307152.09 42307152.17 0.0139 0.0112

Uranus 111121-03-10 17:44 G 42307240.14 42307240.24 42307240.35 0.0139 0.0093

Uranus 111121-06-06 21:20 G 42307328.28 42307328.39 42307328.51 0.0139 0.0073

Venus 111121-09-02 22:03 G 42307416.31 42307416.42 42307416.52 0.3682 0.0198

Uranus 111121-09-03 00:56 G 42307416.42 42307416.54 42307416.67 0.0139 0.0053 *

Neptune 111121-10-10 21:20 G 42307454.38 42307454.39 42307454.41 0.0089 0.0089

Uranus 111121-11-30 04:32 G 42307504.56 42307504.69 42307504.82 0.0139 0.0034

Neptune 111122-01-07 00:27 G 42307542.45 42307542.52 42307542.62 0.0089 0.0079

Uranus 111122-02-26 08:08 G 42307592.71 42307592.84 42307592.98 0.0139 0.0014

Neptune 111122-04-05 04:03 G 42307630.56 42307630.67 42307630.80 0.0089 0.0069

Uranus 111122-05-25 11:44 G 42307680.85 42307680.99 42307681.12 0.0139 0.0006

Neptune 111122-07-02 07:39 G 42307718.68 42307718.82 42307718.96 0.0089 0.0060

Uranus 111122-08-21 15:06 G 42307769.00 42307769.13 42307769.27 0.0140 0.0025

Neptune 111122-09-28 10:46 G 42307806.81 42307806.95 42307807.12 0.0089 0.0050

Uranus 111122-11-17 18:42 G 42307857.15 42307857.28 42307857.41 0.0140 0.0045

Neptune 111122-12-25 14:22 G 42307894.94 42307895.10 42307895.28 0.0089 0.0040

Earth 111122-12-27 16:46 G 42307897.04 42307897.20 42307897.36 0.2676 0.0046

Moon 111122-12-27 17:15 G 42307897.07 42307897.22 42307897.38 0.2682 0.0089 *

Uranus 111123-02-13 22:18 G 42307945.31 42307945.43 42307945.55 0.0140 0.0064

Venus 111123-03-21 03:06 G 42307980.51 42307980.63 42307980.75 0.3690 0.2205

Neptune 111123-03-23 17:58 G 42307983.07 42307983.25 42307983.43 0.0089 0.0030

Uranus 111123-05-13 01:39 G 42308033.47 42308033.57 42308033.68 0.0140 0.0083

Neptune 111123-06-19 21:34 G 42308071.21 42308071.40 42308071.58 0.0089 0.0021

Uranus 111123-08-09 05:01 G 42308121.63 42308121.71 42308121.81 0.0140 0.0103

Neptune 111123-09-16 00:56 G 42308159.35 42308159.54 42308159.73 0.0089 0.0011

Uranus 111123-11-05 08:37 G 42308209.80 42308209.86 42308209.93 0.0140 0.0122

Neptune 111123-12-13 04:32 G 42308247.50 42308247.69 42308247.88 0.0089 0.0002

Neptune 111124-03-10 07:54 G 42308335.64 42308335.83 42308336.02 0.0089 0.0009

Neptune 111124-06-06 11:15 G 42308423.79 42308423.97 42308424.16 0.0089 0.0019

Neptune 111124-09-02 14:51 G 42308511.94 42308512.12 42308512.30 0.0089 0.0029

Neptune 111124-11-29 18:27 G 42308600.10 42308600.27 42308600.44 0.0089 0.0039

Neptune 111125-02-25 21:49 G 42308688.26 42308688.41 42308688.58 0.0089 0.0049

Neptune 111125-05-25 01:25 G 42308776.42 42308776.56 42308776.71 0.0089 0.0059

Saturn 111125-07-12 01:54 G 42308824.46 42308824.58 42308824.70 0.0294 0.0121

Neptune 111125-08-21 04:46 G 42308864.59 42308864.70 42308864.83 0.0089 0.0069

Saturn 111125-10-08 14:37 G 42308912.98 42308913.11 42308913.24 0.0295 0.0056

Neptune 111125-11-17 08:22 G 42308952.77 42308952.85 42308952.95 0.0089 0.0079

Saturn 111126-01-05 02:51 G 42309001.54 42309001.62 42309001.71 0.0295 0.0230

Neptune 111126-02-13 11:58 G 42309040.99 42309041.00 42309041.03 0.0089 0.0089

Jupiter 111126-04-01 13:54 G 42309087.96 42309088.08 42309088.20 0.0523 0.0217

Jupiter 111126-06-29 20:22 G 42309177.28 42309177.35 42309177.43 0.0520 0.0422

Venus 111127-03-19 13:54 G 42309439.99 42309440.08 42309440.17 0.3679 0.1847

Mars 111128-06-06 16:32 G 42309885.12 42309885.19 42309885.27 0.1759 0.1333

Venus 111128-10-04 10:03 G 42310004.81 42310004.92 42310005.03 0.3695 0.2558

Jupiter 111132-08-12 15:06 G 42311412.96 42311413.13 42311413.31 0.0505 0.0042

Venus 111132-10-02 05:58 G 42311463.72 42311463.75 42311463.78 0.3676 0.3491

Earth 111133-06-24 11:30 G 42311728.87 42311728.98 42311729.09 0.2657 0.0026

Moon 111133-06-24 11:58 G 42311728.89 42311729.00 42311729.11 0.2653 0.0173 *

Mars 111137-10-28 02:51 G 42313315.51 42313315.62 42313315.73 0.1768 0.0557

Jupiter 111138-01-18 18:13 G 42313398.17 42313398.26 42313398.35 0.0524 0.0372

Jupiter 111138-04-18 00:56 G 42313487.44 42313487.54 42313487.65 0.0521 0.0276

Mars 111138-11-26 21:34 G 42313710.38 42313710.40 42313710.42 0.1780 0.1766

Saturn 111140-01-30 17:30 G 42314140.08 42314140.23 42314140.38 0.0266 0.0151

Saturn 111140-04-28 13:39 G 42314228.88 42314229.07 42314229.25 0.0265 0.0030

Saturn 111140-07-26 09:49 G 42314317.80 42314317.91 42314318.02 0.0265 0.0211

Jupiter 111144-05-31 13:10 G 42315722.90 42315723.05 42315723.21 0.0504 0.0240

Moon 111146-06-27 05:01 G 42316479.62 42316479.71 42316479.79 0.2648 0.1547

Earth 111146-06-27 05:01 G 42316479.62 42316479.71 42316479.79 0.2655 0.1620 *

Mars 111147-03-20 12:56 G 42316745.92 42316746.04 42316746.15 0.1776 0.0254

Mars 111148-04-17 17:58 G 42317140.08 42317140.25 42317140.42 0.1771 0.0211

Jupiter 111150-02-04 05:15 G 42317797.60 42317797.72 42317797.85 0.0522 0.0122

Saturn 111154-11-29 02:08 G 42319556.50 42319556.59 42319556.70 0.0295 0.0193

Saturn 111155-02-25 15:06 G 42319644.99 42319645.13 42319645.26 0.0295 0.0018

Saturn 111155-05-25 03:34 G 42319733.54 42319733.65 42319733.76 0.0295 0.0160

Jupiter 111156-03-19 11:44 G 42320032.90 42320032.99 42320033.08 0.0504 0.0433

Jupiter 111156-06-17 19:25 G 42320123.20 42320123.31 42320123.42 0.0507 0.0397

Mars 111156-08-09 22:46 G 42320176.36 42320176.45 42320176.54 0.1785 0.1068

Mars 111157-09-07 14:51 G 42320570.00 42320570.12 42320570.23 0.1761 0.1283

Uranus 111161-10-02 08:22 G 42322055.78 42322055.85 42322055.96 0.0139 0.0120

Jupiter 111161-11-23 09:20 G 42322107.76 42322107.89 42322108.02 0.0522 0.0039

Uranus 111161-12-29 15:34 G 42322144.03 42322144.15 42322144.30 0.0139 0.0094

Uranus 111162-03-27 23:01 G 42322232.30 42322232.46 42322232.62 0.0139 0.0067

Uranus 111162-06-24 06:13 G 42322320.58 42322320.76 42322320.94 0.0139 0.0041

Uranus 111162-09-20 13:25 G 42322408.87 42322409.06 42322409.25 0.0139 0.0014

Uranus 111162-12-17 20:37 G 42322497.18 42322497.36 42322497.55 0.0139 0.0012

Uranus 111163-03-16 03:49 G 42322585.48 42322585.66 42322585.84 0.0138 0.0039

Uranus 111163-06-12 11:01 G 42322673.80 42322673.96 42322674.13 0.0138 0.0066

Uranus 111163-09-08 18:13 G 42322762.13 42322762.26 42322762.41 0.0138 0.0093

Uranus 111163-12-06 01:39 G 42322850.49 42322850.57 42322850.67 0.0138 0.0119

Earth 111166-06-22 22:46 G 42323780.36 42323780.45 42323780.55 0.2658 0.1300

Moon 111166-06-22 23:15 G 42323780.38 42323780.47 42323780.57 0.2654 0.1233 *

Venus 111167-03-11 11:15 G 42324041.90 42324041.97 42324042.04 0.3688 0.2725

Mars 111167-12-06 16:32 G 42324312.13 42324312.19 42324312.26 0.1759 0.1434

Jupiter 111168-04-05 17:30 G 42324433.06 42324433.23 42324433.39 0.0506 0.0194

Earth 111168-12-27 23:30 G 42324699.33 42324699.48 42324699.63 0.2676 0.0747

Moon 111168-12-28 01:25 G 42324699.41 42324699.56 42324699.70 0.2676 0.1128 *

Saturn 111169-06-18 15:34 G 42324872.05 42324872.15 42324872.26 0.0266 0.0213

Saturn 111169-09-15 11:44 G 42324960.81 42324960.99 42324961.17 0.0265 0.0033

Saturn 111169-12-13 07:54 G 42325049.68 42325049.83 42325049.99 0.0265 0.0149

Venus 111172-09-24 03:20 G 42326065.54 42326065.64 42326065.75 0.3685 0.0985

Jupiter 111173-09-11 12:42 G 42326417.91 42326418.03 42326418.15 0.0523 0.0211

Jupiter 111173-12-09 19:10 G 42326507.23 42326507.30 42326507.38 0.0520 0.0428

Mars 111177-04-28 02:51 G 42327742.51 42327742.62 42327742.72 0.1767 0.0657

Venus 111178-04-09 19:25 G 42328089.21 42328089.31 42328089.42 0.3681 0.0746

Moon 111179-06-25 16:03 G 42328531.06 42328531.17 42328531.28 0.2650 0.0325

Earth 111179-06-25 16:18 G 42328531.07 42328531.18 42328531.29 0.2657 0.0343 *

Venus 111179-10-26 04:32 G 42328653.54 42328653.69 42328653.83 0.3691 0.0775

Jupiter 111180-01-23 15:06 G 42328742.95 42328743.13 42328743.31 0.0505 0.0018

Pluto 111181-10-16 01:25 G 42329374.50 42329374.56 42329374.64 0.0060 0.0055

Pluto 111182-01-12 02:37 G 42329462.50 42329462.61 42329462.75 0.0060 0.0046

Pluto 111182-04-10 03:49 G 42329550.53 42329550.66 42329550.84 0.0060 0.0037

Pluto 111182-07-07 05:30 G 42329638.56 42329638.73 42329638.92 0.0060 0.0027

Pluto 111182-10-03 07:10 G 42329726.61 42329726.80 42329726.99 0.0060 0.0017

Pluto 111182-12-30 08:22 G 42329814.66 42329814.85 42329815.05 0.0060 0.0008

Pluto 111183-03-28 09:49 G 42329902.72 42329902.91 42329903.11 0.0060 0.0002

Pluto 111183-06-24 11:15 G 42329990.78 42329990.97 42329991.17 0.0060 0.0011

Pluto 111183-09-20 12:27 G 42330078.85 42330079.02 42330079.21 0.0060 0.0021

Venus 111183-10-24 11:30 G 42330112.90 42330112.98 42330113.06 0.3678 0.2392

Pluto 111183-12-17 14:08 G 42330166.92 42330167.09 42330167.26 0.0060 0.0031

Pluto 111184-03-14 15:06 G 42330255.00 42330255.13 42330255.29 0.0060 0.0041

Saturn 111184-04-17 04:32 G 42330288.62 42330288.69 42330288.77 0.0294 0.0239

Pluto 111184-06-10 16:18 G 42330343.10 42330343.18 42330343.31 0.0060 0.0051

Saturn 111184-07-14 17:15 G 42330377.10 42330377.22 42330377.36 0.0294 0.0062

Pluto 111184-09-06 18:13 G 42330431.24 42330431.26 42330431.29 0.0060 0.0060

Saturn 111184-10-11 05:58 G 42330465.63 42330465.75 42330465.87 0.0295 0.0114

Saturn 111185-01-07 18:13 G 42330554.24 42330554.26 42330554.29 0.0295 0.0289

Jupiter 111185-06-30 16:46 G 42330728.11 42330728.20 42330728.29 0.0524 0.0373

Jupiter 111185-09-27 23:30 G 42330817.37 42330817.48 42330817.59 0.0521 0.0276

Mars 111186-09-18 12:56 G 42331172.92 42331173.04 42331173.15 0.1776 0.0160

Mars 111187-10-17 18:42 G 42331567.11 42331567.28 42331567.44 0.1771 0.0382

Jupiter 111191-11-11 11:30 G 42333052.82 42333052.98 42333053.14 0.0504 0.0237

Moon 111192-06-27 09:06 G 42333281.80 42333281.88 42333281.96 0.2654 0.1827

Earth 111192-06-27 09:49 G 42333281.83 42333281.91 42333281.98 0.2655 0.1961 *

Mars 111196-02-08 22:46 G 42334603.35 42334603.45 42334603.54 0.1784 0.0966

Mars 111197-03-08 15:34 G 42334997.02 42334997.15 42334997.28 0.1762 0.1105

Jupiter 111197-07-17 04:03 G 42335127.55 42335127.67 42335127.80 0.0522 0.0127

Saturn 111198-11-05 16:03 G 42335604.13 42335604.17 42335604.23 0.0266 0.0255

Saturn 111199-02-02 12:13 G 42335692.83 42335693.01 42335693.19 0.0266 0.0076

Saturn 111199-05-02 08:08 G 42335781.68 42335781.84 42335782.02 0.0265 0.0106

Earth 111199-06-21 10:03 G 42335831.90 42335831.92 42335831.93 0.2659 0.2613

Moon 111199-06-21 10:18 G 42335831.91 42335831.93 42335831.96 0.2653 0.2587 *

Earth 111201-12-25 22:46 G 42336750.36 42336750.45 42336750.54 0.2674 0.2196

Moon 111201-12-26 00:27 G 42336750.42 42336750.52 42336750.62 0.2672 0.2033 *

Neptune 111202-05-10 21:20 G 42336886.36 42336886.39 42336886.43 0.0088 0.0084

Neptune 111202-08-06 22:32 G 42336974.39 42336974.44 42336974.51 0.0088 0.0078

Neptune 111202-11-02 23:58 G 42337062.43 42337062.50 42337062.59 0.0088 0.0071

Neptune 111203-01-30 01:25 G 42337150.47 42337150.56 42337150.66 0.0088 0.0064

Neptune 111203-04-28 02:51 G 42337238.52 42337238.62 42337238.73 0.0088 0.0057

Neptune 111203-07-25 04:18 G 42337326.57 42337326.68 42337326.79 0.0088 0.0050

Jupiter 111203-08-30 09:34 G 42337362.82 42337362.90 42337363.00 0.0503 0.0433

Neptune 111203-10-21 05:30 G 42337414.62 42337414.73 42337414.86 0.0088 0.0044

Jupiter 111203-11-28 17:15 G 42337453.11 42337453.22 42337453.33 0.0506 0.0395

Neptune 111204-01-17 06:56 G 42337502.67 42337502.79 42337502.92 0.0088 0.0037

Neptune 111204-04-14 08:22 G 42337590.73 42337590.85 42337590.98 0.0088 0.0030

Neptune 111204-07-11 09:49 G 42337678.78 42337678.91 42337679.04 0.0088 0.0023

Uranus 111204-10-05 17:58 G 42337765.20 42337765.25 42337765.31 0.0139 0.0126

Neptune 111204-10-07 11:01 G 42337766.83 42337766.96 42337767.10 0.0088 0.0017

Uranus 111205-01-01 21:20 G 42337853.32 42337853.39 42337853.49 0.0139 0.0107

Neptune 111205-01-03 12:27 G 42337854.89 42337855.02 42337855.16 0.0088 0.0010

Uranus 111205-03-31 01:10 G 42337941.45 42337941.55 42337941.66 0.0139 0.0087

Neptune 111205-04-01 13:54 G 42337942.94 42337943.08 42337943.21 0.0088 0.0003

Uranus 111205-06-27 04:46 G 42338029.58 42338029.70 42338029.82 0.0139 0.0067

Neptune 111205-06-28 15:20 G 42338031.00 42338031.14 42338031.27 0.0088 0.0004

Uranus 111205-09-23 08:22 G 42338117.72 42338117.85 42338117.98 0.0139 0.0048

Neptune 111205-09-24 16:32 G 42338119.06 42338119.19 42338119.33 0.0088 0.0010

Uranus 111205-12-20 11:58 G 42338205.87 42338206.00 42338206.13 0.0139 0.0028

Neptune 111205-12-21 17:58 G 42338207.12 42338207.25 42338207.38 0.0088 0.0017

Uranus 111206-03-18 15:34 G 42338294.01 42338294.15 42338294.28 0.0139 0.0008

Neptune 111206-03-19 19:10 G 42338295.18 42338295.30 42338295.43 0.0088 0.0024

Uranus 111206-06-14 19:10 G 42338382.16 42338382.30 42338382.43 0.0140 0.0012

Neptune 111206-06-15 20:37 G 42338383.24 42338383.36 42338383.49 0.0088 0.0030

Uranus 111206-09-10 22:32 G 42338470.31 42338470.44 42338470.58 0.0140 0.0031

Neptune 111206-09-11 21:49 G 42338471.30 42338471.41 42338471.54 0.0088 0.0037

Uranus 111206-12-08 02:08 G 42338558.47 42338558.59 42338558.72 0.0140 0.0050

Neptune 111206-12-08 23:15 G 42338559.36 42338559.47 42338559.59 0.0088 0.0043

Uranus 111207-03-06 05:44 G 42338646.62 42338646.74 42338646.85 0.0140 0.0070

Neptune 111207-03-07 00:27 G 42338647.42 42338647.52 42338647.64 0.0088 0.0050

Uranus 111207-06-02 08:51 G 42338734.78 42338734.87 42338734.99 0.0140 0.0090

Neptune 111207-06-03 01:39 G 42338735.48 42338735.57 42338735.69 0.0088 0.0057

Mars 111207-06-06 16:32 G 42338739.14 42338739.19 42338739.25 0.1759 0.1528

Uranus 111207-08-29 12:27 G 42338822.95 42338823.02 42338823.11 0.0140 0.0109

Neptune 111207-08-30 03:20 G 42338823.55 42338823.64 42338823.73 0.0088 0.0063

Uranus 111207-11-25 16:03 G 42338911.12 42338911.17 42338911.23 0.0140 0.0128

Neptune 111207-11-26 04:32 G 42338911.62 42338911.69 42338911.78 0.0088 0.0070

Neptune 111208-02-22 05:58 G 42338999.69 42338999.75 42338999.82 0.0088 0.0076

Neptune 111208-05-20 07:10 G 42339087.76 42339087.80 42339087.85 0.0088 0.0083

Jupiter 111209-05-05 08:22 G 42339437.72 42339437.85 42339437.98 0.0523 0.0030

Moon 111212-06-23 03:06 G 42340582.53 42340582.63 42340582.74 0.2653 0.0978

Earth 111212-06-23 03:34 G 42340582.55 42340582.65 42340582.75 0.2658 0.0955 *

Saturn 111213-12-01 17:44 G 42341109.12 42341109.24 42341109.36 0.0294 0.0134

Saturn 111214-02-28 06:13 G 42341197.63 42341197.76 42341197.90 0.0295 0.0044

Saturn 111214-05-27 18:42 G 42341286.20 42341286.28 42341286.37 0.0295 0.0217

Earth 111214-12-29 06:13 G 42341501.63 42341501.76 42341501.89 0.2677 0.1460

Moon 111214-12-29 06:42 G 42341501.65 42341501.78 42341501.91 0.2670 0.1580 *

Jupiter 111215-09-16 15:20 G 42341762.98 42341763.14 42341763.31 0.0506 0.0193

Mars 111216-10-27 02:37 G 42342169.51 42342169.61 42342169.72 0.1767 0.0752

Jupiter 111221-02-21 12:13 G 42343747.89 42343748.01 42343748.14 0.0523 0.0190

Jupiter 111221-05-21 18:42 G 42343837.22 42343837.28 42343837.35 0.0520 0.0448

Venus 111223-10-16 08:51 G 42344714.79 42344714.87 42344714.96 0.3688 0.2140

Moon 111225-06-25 20:22 G 42345333.25 42345333.35 42345333.46 0.2656 0.0507

Earth 111225-06-25 21:06 G 42345333.28 42345333.38 42345333.49 0.2656 0.0685 *

Mars 111226-03-19 12:56 G 42345599.92 42345600.04 42345600.15 0.1776 0.0079

Mars 111227-04-17 19:39 G 42345994.16 42345994.32 42345994.48 0.1771 0.0569

Jupiter 111227-07-05 13:39 G 42346072.89 42346073.07 42346073.25 0.0505 0.0007

Saturn 111228-06-21 09:49 G 42346424.76 42346424.91 42346425.07 0.0266 0.0143

Saturn 111228-09-18 05:58 G 42346513.57 42346513.75 42346513.93 0.0265 0.0037

Saturn 111228-12-16 02:08 G 42346602.49 42346602.59 42346602.70 0.0265 0.0220

Venus 111229-05-01 01:10 G 42346738.44 42346738.55 42346738.65 0.3684 0.0436

Jupiter 111232-12-10 15:49 G 42348058.06 42348058.16 42348058.25 0.0524 0.0363

Jupiter 111233-03-09 22:32 G 42348147.33 42348147.44 42348147.55 0.0521 0.0284

Venus 111234-11-14 17:01 G 42348762.12 42348762.21 42348762.31 0.3680 0.1292

Mars 111235-08-09 22:46 G 42349030.35 42349030.45 42349030.55 0.1784 0.0866

Venus 111236-06-01 06:13 G 42349326.61 42349326.76 42349326.90 0.3692 0.0708

Mars 111236-09-06 16:18 G 42349424.04 42349424.18 42349424.32 0.1762 0.0951

Moon 111238-06-28 14:08 G 42350084.04 42350084.09 42350084.14 0.2661 0.2327

Earth 111238-06-28 14:22 G 42350084.05 42350084.10 42350084.16 0.2655 0.2298 *

Jupiter 111239-04-23 11:30 G 42350382.82 42350382.98 42350383.14 0.0504 0.0208

Venus 111240-05-30 09:06 G 42350785.82 42350785.88 42350785.94 0.3677 0.2934

Saturn 111243-04-20 19:39 G 42351841.22 42351841.32 42351841.43 0.0294 0.0184

Saturn 111243-07-18 08:22 G 42351929.72 42351929.85 42351929.98 0.0295 0.0008

Saturn 111243-10-14 20:51 G 42352018.27 42352018.37 42352018.48 0.0295 0.0169

Jupiter 111244-12-27 02:37 G 42352457.49 42352457.61 42352457.74 0.0522 0.0131

Mars 111244-12-30 08:22 G 42352460.82 42352460.85 42352460.88 0.1793 0.1710

Moon 111245-06-21 14:22 G 42352634.05 42352634.10 42352634.15 0.2654 0.2364

Earth 111245-06-21 14:51 G 42352634.06 42352634.12 42352634.17 0.2659 0.2264 *

Uranus 111245-10-22 15:20 G 42352757.05 42352757.14 42352757.26 0.0139 0.0114

Uranus 111246-01-18 22:32 G 42352845.31 42352845.44 42352845.59 0.0139 0.0088

Uranus 111246-04-17 05:44 G 42352933.58 42352933.74 42352933.91 0.0139 0.0062

Uranus 111246-07-14 13:10 G 42353021.87 42353022.05 42353022.23 0.0139 0.0035

Uranus 111246-10-10 20:08 G 42353110.16 42353110.34 42353110.53 0.0139 0.0010

Mars 111246-12-05 16:32 G 42353166.15 42353166.19 42353166.23 0.1759 0.1626

Uranus 111247-01-07 03:20 G 42353198.46 42353198.64 42353198.83 0.0138 0.0019

Uranus 111247-04-05 10:46 G 42353286.77 42353286.95 42353287.13 0.0138 0.0045

Uranus 111247-07-02 17:58 G 42353375.09 42353375.25 42353375.41 0.0138 0.0071

Uranus 111247-09-29 01:10 G 42353463.43 42353463.55 42353463.69 0.0138 0.0098

Uranus 111247-12-26 08:37 G 42353551.79 42353551.86 42353551.94 0.0138 0.0125

Moon 111247-12-27 05:15 G 42353552.59 42353552.72 42353552.86 0.2668 0.1402

Earth 111247-12-27 05:30 G 42353552.60 42353552.73 42353552.86 0.2675 0.1502 *

Jupiter 111251-02-09 08:08 G 42354692.75 42354692.84 42354692.94 0.0503 0.0425

Jupiter 111251-05-10 15:49 G 42354783.05 42354783.16 42354783.27 0.0506 0.0401

Mars 111256-04-27 02:37 G 42356596.51 42356596.61 42356596.71 0.1767 0.0849

Jupiter 111256-10-15 07:10 G 42356767.67 42356767.80 42356767.93 0.0523 0.0024

Saturn 111257-11-08 10:18 G 42357156.80 42357156.93 42357157.06 0.0266 0.0186

Saturn 111258-02-05 06:27 G 42357245.58 42357245.77 42357245.95 0.0266 0.0008

Saturn 111258-05-05 02:37 G 42357334.47 42357334.61 42357334.75 0.0266 0.0176

Moon 111258-06-24 07:39 G 42357384.72 42357384.82 42357384.93 0.2659 0.0707

Earth 111258-06-24 08:22 G 42357384.75 42357384.85 42357384.96 0.2657 0.0608 *

Moon 111260-12-29 11:30 G 42358303.86 42358303.98 42358304.09 0.2674 0.1836

Earth 111260-12-29 12:56 G 42358303.95 42358304.04 42358304.13 0.2677 0.2184 *

Jupiter 111263-02-26 13:39 G 42359092.90 42359093.07 42359093.23 0.0506 0.0196

Mars 111265-09-17 12:42 G 42360026.92 42360027.03 42360027.15 0.1775 0.0076

Mars 111266-10-16 20:22 G 42360421.20 42360421.35 42360421.50 0.1771 0.0740

Jupiter 111268-08-03 11:15 G 42361077.85 42361077.97 42361078.10 0.0524 0.0180

Jupiter 111268-10-31 17:58 G 42361167.19 42361167.25 42361167.31 0.0520 0.0458

Moon 111271-06-27 01:54 G 42362135.47 42362135.58 42362135.68 0.2662 0.1000

Earth 111271-06-27 01:54 G 42362135.48 42362135.58 42362135.68 0.2656 0.1024 *

Saturn 111272-09-06 19:54 G 42362573.27 42362573.33 42362573.40 0.0294 0.0255

Saturn 111272-12-04 08:51 G 42362661.74 42362661.87 42362662.00 0.0294 0.0078

Saturn 111273-03-02 21:20 G 42362750.27 42362750.39 42362750.52 0.0295 0.0097

Saturn 111273-05-30 09:49 G 42362838.86 42362838.91 42362838.96 0.0295 0.0271

Venus 111274-11-06 14:08 G 42363364.05 42363364.09 42363364.14 0.3690 0.3327

Jupiter 111274-12-15 11:44 G 42363402.81 42363402.99 42363403.17 0.0505 0.0006

Mars 111275-02-07 22:46 G 42363457.34 42363457.45 42363457.55 0.1784 0.0772

Mars 111276-03-07 17:15 G 42363851.07 42363851.22 42363851.38 0.1762 0.0754

Pluto 111277-07-09 23:30 G 42364340.43 42364340.48 42364340.54 0.0085 0.0076

Pluto 111277-10-06 00:42 G 42364428.44 42364428.53 42364428.63 0.0085 0.0058

Pluto 111278-01-02 01:54 G 42364516.47 42364516.58 42364516.70 0.0085 0.0040

Pluto 111278-03-31 03:06 G 42364604.51 42364604.63 42364604.76 0.0084 0.0022

Pluto 111278-06-27 04:18 G 42364692.55 42364692.68 42364692.82 0.0084 0.0005

Pluto 111278-09-23 05:30 G 42364780.61 42364780.73 42364780.87 0.0084 0.0015

Pluto 111278-12-20 06:42 G 42364868.66 42364868.78 42364868.91 0.0084 0.0033

Pluto 111279-03-18 07:39 G 42364956.73 42364956.82 42364956.94 0.0084 0.0051

Pluto 111279-06-14 09:06 G 42365044.81 42365044.88 42365044.96 0.0084 0.0068

Venus 111280-05-22 06:27 G 42365387.68 42365387.77 42365387.87 0.3686 0.1564

Jupiter 111280-05-22 15:20 G 42365388.04 42365388.14 42365388.24 0.0524 0.0341

Jupiter 111280-08-19 22:03 G 42365477.32 42365477.42 42365477.53 0.0521 0.0306

Earth 111284-06-28 19:10 G 42366886.29 42366886.30 42366886.31 0.2654 0.2631

Mars 111284-06-30 08:37 G 42366887.81 42366887.86 42366887.90 0.1792 0.1606

Venus 111285-12-05 22:46 G 42367411.34 42367411.45 42367411.55 0.3683 0.0227

Mars 111286-06-05 16:32 G 42367593.17 42367593.19 42367593.21 0.1759 0.1725

Neptune 111286-07-07 19:39 G 42367625.28 42367625.32 42367625.39 0.0089 0.0084

Jupiter 111286-10-03 10:18 G 42367712.76 42367712.93 42367713.09 0.0504 0.0198

Neptune 111286-10-03 23:15 G 42367713.37 42367713.47 42367713.58 0.0089 0.0075

Neptune 111286-12-31 02:22 G 42367801.49 42367801.60 42367801.75 0.0089 0.0065

Saturn 111287-03-28 07:25 G 42367888.77 42367888.81 42367888.87 0.0266 0.0256

Neptune 111287-03-29 05:58 G 42367889.61 42367889.75 42367889.91 0.0089 0.0055

Venus 111287-06-23 00:42 G 42367975.43 42367975.53 42367975.64 0.3689 0.2521

Saturn 111287-06-25 03:34 G 42367977.48 42367977.65 42367977.83 0.0266 0.0077

Neptune 111287-06-25 09:34 G 42367977.74 42367977.90 42367978.07 0.0089 0.0046 *

Neptune 111287-09-21 13:10 G 42368065.88 42368066.05 42368066.22 0.0089 0.0036

Saturn 111287-09-21 23:44 G 42368066.32 42368066.49 42368066.66 0.0265 0.0105

Neptune 111287-12-18 16:18 G 42368154.01 42368154.18 42368154.37 0.0089 0.0027

Neptune 111288-03-15 19:54 G 42368242.15 42368242.33 42368242.52 0.0089 0.0016

Neptune 111288-06-11 23:30 G 42368330.29 42368330.48 42368330.67 0.0089 0.0006

Neptune 111288-09-08 03:06 G 42368418.44 42368418.63 42368418.82 0.0089 0.0004

Uranus 111288-10-26 01:10 G 42368466.49 42368466.55 42368466.62 0.0139 0.0121

Neptune 111288-12-05 06:27 G 42368506.58 42368506.77 42368506.96 0.0089 0.0013

Uranus 111289-01-22 05:01 G 42368554.62 42368554.71 42368554.80 0.0139 0.0101

Neptune 111289-03-03 09:49 G 42368594.73 42368594.91 42368595.10 0.0089 0.0024

Uranus 111289-04-20 08:37 G 42368642.75 42368642.86 42368642.97 0.0139 0.0082

Neptune 111289-05-30 13:25 G 42368682.89 42368683.06 42368683.24 0.0089 0.0033

Uranus 111289-07-17 11:58 G 42368730.89 42368731.00 42368731.13 0.0139 0.0063

Neptune 111289-08-26 16:46 G 42368771.04 42368771.20 42368771.38 0.0089 0.0044

Uranus 111289-10-13 15:49 G 42368819.03 42368819.16 42368819.29 0.0139 0.0042

Neptune 111289-11-22 20:22 G 42368859.21 42368859.35 42368859.51 0.0089 0.0053

Uranus 111290-01-09 19:10 G 42368907.17 42368907.30 42368907.44 0.0139 0.0023

Neptune 111290-02-18 23:44 G 42368947.37 42368947.49 42368947.64 0.0089 0.0064

Uranus 111290-04-07 22:46 G 42368995.32 42368995.45 42368995.59 0.0140 0.0005

Neptune 111290-05-18 03:20 G 42369035.55 42369035.64 42369035.76 0.0089 0.0073

Uranus 111290-07-05 02:22 G 42369083.47 42369083.60 42369083.74 0.0140 0.0017

Neptune 111290-08-14 06:42 G 42369123.74 42369123.78 42369123.87 0.0089 0.0084

Uranus 111290-10-01 05:58 G 42369171.62 42369171.75 42369171.88 0.0140 0.0036

Uranus 111290-12-28 09:20 G 42369259.77 42369259.89 42369260.02 0.0140 0.0056

Uranus 111291-03-26 12:56 G 42369347.93 42369348.04 42369348.16 0.0140 0.0075

Venus 111291-06-21 14:37 G 42369435.02 42369435.11 42369435.20 0.3680 0.1837

Uranus 111291-06-22 16:18 G 42369436.09 42369436.18 42369436.29 0.0140 0.0095

Moon 111291-06-22 18:56 G 42369436.22 42369436.29 42369436.36 0.2662 0.1972 *

Earth 111291-06-22 19:39 G 42369436.24 42369436.32 42369436.39 0.2659 0.1916 *

Uranus 111291-09-18 19:54 G 42369524.26 42369524.33 42369524.41 0.0140 0.0114

Uranus 111291-12-15 23:30 G 42369612.44 42369612.48 42369612.52 0.0140 0.0133

Jupiter 111292-03-10 18:42 G 42369698.26 42369698.28 42369698.30 0.0525 0.0514

Jupiter 111292-06-08 01:54 G 42369787.45 42369787.58 42369787.70 0.0522 0.0141

Venus 111293-01-06 07:54 G 42369999.71 42369999.83 42369999.95 0.3694 0.2211

Moon 111293-12-27 10:32 G 42370354.79 42370354.94 42370355.08 0.2673 0.0991

Earth 111293-12-27 11:58 G 42370354.85 42370355.00 42370355.15 0.2675 0.0795 *

Mars 111295-10-27 02:37 G 42371023.52 42371023.61 42371023.71 0.1767 0.0956

Venus 111297-01-04 06:42 G 42371458.75 42371458.78 42371458.81 0.3676 0.3476

Jupiter 111298-07-22 08:08 G 42372022.74 42372022.84 42372022.96 0.0503 0.0397

Jupiter 111298-10-20 15:49 G 42372113.07 42372113.16 42372113.26 0.0507 0.0432

Saturn 111302-04-24 10:32 G 42373393.82 42373393.94 42373394.06 0.0294 0.0132

Saturn 111302-07-21 23:15 G 42373482.34 42373482.47 42373482.60 0.0294 0.0045

Saturn 111302-10-18 11:44 G 42373570.90 42373570.99 42373571.07 0.0295 0.0219

Jupiter 111304-03-28 05:58 G 42374097.62 42374097.75 42374097.88 0.0523 0.0017

Moon 111304-06-25 13:10 G 42374186.94 42374187.05 42374187.16 0.2663 0.0333

Earth 111304-06-25 13:10 G 42374186.94 42374187.05 42374187.16 0.2657 0.0265 *

Mars 111305-03-19 12:42 G 42374453.92 42374454.03 42374454.15 0.1775 0.0149

Mars 111306-04-17 21:20 G 42374848.24 42374848.39 42374848.53 0.1772 0.0927

Moon 111306-12-31 18:13 G 42375106.25 42375106.26 42375106.27 0.2682 0.2671

Jupiter 111310-08-09 12:13 G 42376422.85 42376423.01 42376423.17 0.0505 0.0204

Mars 111314-08-09 22:46 G 42377884.34 42377884.45 42377884.55 0.1784 0.0669

Mars 111315-09-07 18:13 G 42378278.10 42378278.26 42378278.42 0.1762 0.0582

Jupiter 111316-01-15 10:18 G 42378407.80 42378407.93 42378408.05 0.0524 0.0174

Jupiter 111316-04-13 16:46 G 42378497.15 42378497.20 42378497.26 0.0521 0.0466

Saturn 111316-11-12 03:49 G 42378709.51 42378709.66 42378709.83 0.0266 0.0120

Saturn 111317-02-09 00:13 G 42378798.33 42378798.51 42378798.69 0.0266 0.0061

Saturn 111317-05-08 20:22 G 42378887.28 42378887.35 42378887.43 0.0266 0.0244

Earth 111317-06-28 06:42 G 42378937.68 42378937.78 42378937.87 0.2656 0.1362

Moon 111317-06-28 07:10 G 42378937.71 42378937.80 42378937.89 0.2659 0.1536 *

Jupiter 111322-05-28 10:03 G 42380732.74 42380732.92 42380733.10 0.0505 0.0010

Mars 111323-12-31 08:22 G 42381314.79 42381314.85 42381314.91 0.1792 0.1513

Jupiter 111327-11-03 14:22 G 42382718.00 42382718.10 42382718.20 0.0525 0.0331

Jupiter 111328-01-31 21:06 G 42382807.28 42382807.38 42382807.49 0.0521 0.0316

Uranus 111329-08-16 15:34 G 42383370.12 42383370.15 42383370.22 0.0139 0.0133

Uranus 111329-11-12 22:46 G 42383458.34 42383458.45 42383458.58 0.0139 0.0107

Uranus 111330-02-09 05:58 G 42383546.61 42383546.75 42383546.91 0.0139 0.0080

Uranus 111330-05-08 12:56 G 42383634.88 42383635.04 42383635.22 0.0139 0.0055

Uranus 111330-08-04 20:22 G 42383723.17 42383723.35 42383723.53 0.0139 0.0028

Uranus 111330-11-01 03:34 G 42383811.47 42383811.65 42383811.84 0.0139 0.0002

Uranus 111331-01-28 10:46 G 42383899.77 42383899.95 42383900.14 0.0138 0.0025

Uranus 111331-04-26 17:58 G 42383988.08 42383988.25 42383988.43 0.0138 0.0052

Venus 111331-06-14 11:58 G 42384036.93 42384037.00 42384037.07 0.3689 0.2738

Uranus 111331-07-24 01:25 G 42384076.41 42384076.56 42384076.71 0.0138 0.0078

Saturn 111331-09-11 11:01 G 42384125.87 42384125.96 42384126.06 0.0294 0.0200

Uranus 111331-10-20 08:37 G 42384164.74 42384164.86 42384164.99 0.0138 0.0105

Saturn 111331-12-08 23:44 G 42384214.36 42384214.49 42384214.63 0.0294 0.0025

Uranus 111332-01-16 15:49 G 42384253.12 42384253.16 42384253.22 0.0138 0.0132

Saturn 111332-03-06 12:13 G 42384302.90 42384303.01 42384303.13 0.0294 0.0152

Jupiter 111334-03-16 08:22 G 42385042.69 42385042.85 42385043.02 0.0504 0.0195

Mars 111335-04-28 02:37 G 42385450.52 42385450.61 42385450.70 0.1767 0.1044

Venus 111336-12-28 04:03 G 42386060.57 42386060.67 42386060.78 0.3686 0.0996

Moon 111337-06-24 00:27 G 42386238.43 42386238.52 42386238.61 0.2665 0.1555

Earth 111337-06-24 00:27 G 42386238.43 42386238.52 42386238.61 0.2658 0.1570 *

Jupiter 111339-08-22 18:13 G 42387028.22 42387028.26 42387028.30 0.0525 0.0494

Jupiter 111339-11-20 01:25 G 42387117.44 42387117.56 42387117.68 0.0522 0.0161

Moon 111339-12-29 17:58 G 42387157.10 42387157.25 42387157.40 0.2682 0.0311

Earth 111339-12-29 18:42 G 42387157.13 42387157.28 42387157.44 0.2675 0.0093 *

Venus 111342-07-13 20:22 G 42388084.24 42388084.35 42388084.45 0.3682 0.0732

Venus 111344-01-29 02:22 G 42388648.46 42388648.60 42388648.74 0.3690 0.1086

Mars 111344-09-17 12:42 G 42388880.92 42388881.03 42388881.15 0.1775 0.0266

Mars 111345-10-16 22:03 G 42389275.29 42389275.42 42389275.55 0.1772 0.1106

Jupiter 111346-01-02 06:56 G 42389352.68 42389352.79 42389352.91 0.0503 0.0387

Saturn 111346-04-01 00:56 G 42389441.42 42389441.54 42389441.68 0.0266 0.0192

Jupiter 111346-04-02 14:37 G 42389443.02 42389443.11 42389443.20 0.0507 0.0442

Saturn 111346-06-28 21:06 G 42389530.20 42389530.38 42389530.57 0.0266 0.0013

Saturn 111346-09-25 17:15 G 42389619.09 42389619.22 42389619.37 0.0266 0.0171

Venus 111348-01-27 12:13 G 42390107.94 42390108.01 42390108.09 0.3679 0.2387

Earth 111350-06-26 17:58 G 42390989.14 42390989.25 42390989.36 0.2657 0.0079

Moon 111350-06-26 18:42 G 42390989.17 42390989.28 42390989.39 0.2659 0.0186 *

Jupiter 111351-09-08 05:01 G 42391427.58 42391427.71 42391427.84 0.0523 0.0012

Mars 111354-02-07 22:46 G 42392311.34 42392311.45 42392311.55 0.1783 0.0570

Mars 111355-03-08 18:42 G 42392705.12 42392705.28 42392705.45 0.1763 0.0420

Jupiter 111358-01-19 12:13 G 42393752.85 42393753.01 42393753.17 0.0506 0.0235

Saturn 111361-01-28 12:42 G 42394857.97 42394858.03 42394858.10 0.0294 0.0256

Saturn 111361-04-27 01:25 G 42394946.43 42394946.56 42394946.69 0.0294 0.0079

Saturn 111361-07-24 14:08 G 42395034.96 42395035.09 42395035.21 0.0294 0.0097

Saturn 111361-10-21 02:22 G 42395123.56 42395123.60 42395123.66 0.0294 0.0270

Jupiter 111363-06-27 09:06 G 42395737.75 42395737.88 42395738.00 0.0524 0.0165

Earth 111363-06-29 11:15 G 42395739.89 42395739.97 42395740.06 0.2655 0.1705

Moon 111363-06-29 11:58 G 42395739.92 42395740.00 42395740.08 0.2651 0.1777 *

Mars 111363-07-01 08:22 G 42395741.78 42395741.85 42395741.92 0.1792 0.1411

Jupiter 111363-09-24 15:34 G 42395827.10 42395827.15 42395827.20 0.0520 0.0472

Neptune 111366-11-09 19:39 G 42396969.32 42396969.32 42396969.32 0.0088 0.0088

Neptune 111367-02-05 20:51 G 42397057.33 42397057.37 42397057.43 0.0088 0.0081

Neptune 111367-05-04 22:18 G 42397145.37 42397145.43 42397145.51 0.0088 0.0075

Neptune 111367-07-31 23:58 G 42397233.41 42397233.50 42397233.58 0.0088 0.0068

Neptune 111367-10-28 00:56 G 42397321.46 42397321.54 42397321.65 0.0088 0.0061

Neptune 111368-01-24 02:22 G 42397409.51 42397409.60 42397409.72 0.0088 0.0054

Neptune 111368-04-21 03:49 G 42397497.56 42397497.66 42397497.78 0.0088 0.0048

Neptune 111368-07-18 05:30 G 42397585.61 42397585.73 42397585.85 0.0088 0.0040

Neptune 111368-10-14 06:42 G 42397673.66 42397673.78 42397673.91 0.0088 0.0034

Neptune 111369-01-10 08:08 G 42397761.71 42397761.84 42397761.97 0.0088 0.0027

Neptune 111369-04-08 09:34 G 42397849.77 42397849.90 42397850.03 0.0088 0.0020

Neptune 111369-07-05 10:46 G 42397937.82 42397937.95 42397938.09 0.0088 0.0014

Neptune 111369-10-01 12:13 G 42398025.88 42398026.01 42398026.15 0.0088 0.0007

Jupiter 111369-11-07 08:51 G 42398062.69 42398062.87 42398063.05 0.0504 0.0012

Neptune 111369-12-28 13:39 G 42398113.93 42398114.07 42398114.20 0.0088 0.0000

Neptune 111370-03-26 15:06 G 42398201.99 42398202.13 42398202.26 0.0088 0.0007

Neptune 111370-06-22 16:18 G 42398290.05 42398290.18 42398290.32 0.0088 0.0013

Neptune 111370-09-18 17:44 G 42398378.11 42398378.24 42398378.37 0.0088 0.0020

Neptune 111370-12-15 18:56 G 42398466.17 42398466.29 42398466.42 0.0088 0.0027

Neptune 111371-03-13 20:22 G 42398554.23 42398554.35 42398554.48 0.0088 0.0033

Neptune 111371-06-09 21:34 G 42398642.29 42398642.40 42398642.53 0.0088 0.0040

Neptune 111371-09-05 22:46 G 42398730.35 42398730.45 42398730.58 0.0088 0.0047

Neptune 111371-12-03 00:27 G 42398818.41 42398818.52 42398818.63 0.0088 0.0053

Neptune 111372-02-29 01:39 G 42398906.48 42398906.57 42398906.67 0.0088 0.0060

Neptune 111372-05-27 03:06 G 42398994.54 42398994.63 42398994.72 0.0088 0.0066

Uranus 111372-08-20 04:46 G 42399079.68 42399079.70 42399079.73 0.0139 0.0136

Neptune 111372-08-23 04:18 G 42399082.61 42399082.68 42399082.76 0.0088 0.0073

Uranus 111372-11-16 08:37 G 42399167.79 42399167.86 42399167.93 0.0139 0.0116

Neptune 111372-11-19 05:44 G 42399170.69 42399170.74 42399170.80 0.0088 0.0079

Uranus 111373-02-12 12:13 G 42399255.91 42399256.01 42399256.11 0.0139 0.0097

Neptune 111373-02-15 06:56 G 42399258.77 42399258.79 42399258.82 0.0088 0.0086

Uranus 111373-05-11 15:34 G 42399344.05 42399344.15 42399344.27 0.0139 0.0078

Uranus 111373-08-07 19:25 G 42399432.19 42399432.31 42399432.43 0.0139 0.0057

Uranus 111373-11-03 23:01 G 42399520.33 42399520.46 42399520.59 0.0139 0.0037

Uranus 111374-01-31 02:37 G 42399608.47 42399608.61 42399608.74 0.0139 0.0018

Uranus 111374-04-29 06:13 G 42399696.62 42399696.76 42399696.89 0.0140 0.0004

Uranus 111374-07-26 09:34 G 42399784.77 42399784.90 42399785.04 0.0140 0.0022

Uranus 111374-10-22 13:10 G 42399872.92 42399873.05 42399873.18 0.0140 0.0041

Mars 111374-10-27 02:37 G 42399877.52 42399877.61 42399877.70 0.1766 0.1149

Uranus 111375-01-18 16:32 G 42399961.08 42399961.19 42399961.32 0.0140 0.0061

Jupiter 111375-04-15 13:10 G 42400047.94 42400048.05 42400048.15 0.0525 0.0327

Uranus 111375-04-16 20:08 G 42400049.24 42400049.34 42400049.45 0.0140 0.0080

Jupiter 111375-07-13 19:54 G 42400137.23 42400137.33 42400137.44 0.0522 0.0322

Uranus 111375-07-13 23:30 G 42400137.40 42400137.48 42400137.58 0.0140 0.0100 *

Saturn 111375-08-19 01:39 G 42400173.49 42400173.57 42400173.66 0.0266 0.0234

Uranus 111375-10-10 03:06 G 42400225.57 42400225.63 42400225.71 0.0140 0.0119

Saturn 111375-11-15 21:34 G 42400262.22 42400262.40 42400262.58 0.0266 0.0054

Uranus 111376-01-06 06:42 G 42400313.77 42400313.78 42400313.80 0.0140 0.0138

Saturn 111376-02-12 17:44 G 42400351.08 42400351.24 42400351.41 0.0266 0.0128

Jupiter 111381-08-26 06:56 G 42402372.62 42402372.79 42402372.95 0.0504 0.0188

Earth 111383-06-25 05:15 G 42403040.62 42403040.72 42403040.82 0.2658 0.1225

Moon 111383-06-25 05:58 G 42403040.65 42403040.75 42403040.85 0.2659 0.1170 *

Mars 111384-03-18 12:42 G 42403307.92 42403308.03 42403308.14 0.1775 0.0348

Mars 111385-04-16 23:01 G 42403702.34 42403702.46 42403702.57 0.1772 0.1287

Earth 111385-12-30 01:25 G 42403959.41 42403959.56 42403959.71 0.2676 0.0634

Moon 111385-12-30 02:22 G 42403959.45 42403959.60 42403959.75 0.2682 0.0776 *

Jupiter 111387-02-01 17:01 G 42404358.17   42404358.21   42404358.26 0.0526 0.0487

Jupiter 111387-05-02 00:27 G 42404447.39   42404447.52   42404447.64 0.0522 0.0170

Venus   111388-01-19 09:34 G 42404709.81   42404709.90   42404709.98 0.3688 0.2150

Saturn   111390-09-14 02:22 G 42405678.48   42405678.60   42405678.72 0.0294 0.0143

Saturn   111390-12-11 14:51 G 42405766.99   42405767.12   42405767.26 0.0294 0.0034

Saturn   111391-03-10 03:20 G 42405855.55   42405855.64   42405855.74 0.0294 0.0206

Jupiter 111393-06-14 05:15 G 42406682.61   42406682.72   42406682.83 0.0503 0.0384

Venus   111393-08-04 01:54 G 42406733.47   42406733.58   42406733.68 0.3685 0.0448

Mars   111393-08-08 22:32 G 42406738.33   42406738.44   42406738.55 0.1784 0.0469

Jupiter 111393-09-12 12:42 G 42406772.95   42406773.03   42406773.12 0.0506 0.0444

Mars   111394-09-06 19:39 G 42407132.16   42407132.32   42407132.49 0.1763 0.0232

Earth   111396-06-26 22:46 G 42407791.34   42407791.45   42407791.56 0.2657 0.0418

Moon   111396-06-26 23:15 G 42407791.36   42407791.47   42407791.57 0.2652 0.0561 *

Venus   111399-02-17 17:58 G 42408757.15   42408757.25   42408757.34 0.3681 0.1282

Jupiter 111399-02-18 04:32 G 42408757.56   42408757.69   42408757.82 0.0523 0.0014

Venus   111400-09-05 03:49 G 42409321.51   42409321.66   42409321.81 0.3692 0.0357

Mars   111402-12-31 08:22 G 42410168.78   42410168.85   42410168.93 0.1792 0.1303

Mars   111404-01-28 16:46 G 42410562.16   42410562.20   42410562.24 0.1754 0.1702

Venus   111404-09-03 09:49 G 42410780.85   42410780.91   42410780.97 0.3678 0.2926

Saturn   111405-04-04 18:42 G 42410994.12   42410994.28   42410994.44 0.0266 0.0126

Jupiter 111405-07-02 10:46 G 42411082.80   42411082.95   42411083.11 0.0506 0.0243

Saturn   111405-07-02 14:51 G 42411082.94   42411083.12   42411083.30 0.0266 0.0055 *

Saturn   111405-09-29 11:01 G 42411171.89   42411171.96   42411172.05 0.0266 0.0238

Moon   111409-06-30 15:49 G 42412542.08   42412542.16   42412542.23 0.2649 0.1908

Earth   111409-06-30 16:03 G 42412542.11   42412542.17   42412542.24 0.2655 0.2043 *

Jupiter 111410-12-08 08:08 G 42413067.72   42413067.84   42413067.97 0.0523 0.0154

Jupiter 111411-03-07 14:37 G 42413157.07   42413157.11   42413157.16 0.0520 0.0483

Uranus   111413-09-06 22:32 G 42414071.38   42414071.44   42414071.53 0.0139 0.0127

Uranus   111413-12-04 05:44 G 42414159.63   42414159.74   42414159.88 0.0139 0.0101

Uranus   111414-03-02 12:56 G 42414247.89   42414248.04   42414248.20 0.0139 0.0075

Mars 111414-04-28 02:37 G 42414304.53 42414304.61 42414304.69 0.1766 0.1249

Uranus 111414-05-29 20:08 G 42414336.17 42414336.34 42414336.52 0.0139 0.0048

Uranus 111414-08-26 03:20 G 42414424.46 42414424.64 42414424.83 0.0139 0.0022

Uranus 111414-11-22 10:32 G 42414512.76 42414512.94 42414513.13 0.0138 0.0005

Uranus 111415-02-18 17:44 G 42414601.06 42414601.24 42414601.43 0.0138 0.0031

Uranus 111415-05-18 01:10 G 42414689.38 42414689.55 42414689.72 0.0138 0.0058

Uranus 111415-08-14 08:22 G 42414777.70 42414777.85 42414778.00 0.0138 0.0084

Uranus 111415-11-10 15:34 G 42414866.05 42414866.15 42414866.27 0.0138 0.0111

Uranus 111416-02-06 23:01 G 42414954.46 42414954.46 42414954.47 0.0138 0.0138

Earth 111416-06-23 16:32 G 42415092.16 42415092.19 42415092.22 0.2660 0.2539

Moon 111416-06-23 17:01 G 42415092.17 42415092.21 42415092.26 0.2660 0.2409 *

Jupiter 111417-04-20 08:51 G 42415392.69 42415392.87 42415393.04 0.0505 0.0041

Earth 111418-12-29 00:42 G 42416010.45 42416010.53 42416010.61 0.2674 0.2292

Moon 111418-12-29 02:08 G 42416010.51 42416010.59 42416010.68 0.2678 0.2188 *

Saturn 111420-02-02 03:49 G 42416410.56 42416410.66 42416410.76 0.0294 0.0200

Saturn 111420-04-30 16:32 G 42416499.05 42416499.19 42416499.32 0.0294 0.0025

Saturn 111420-07-28 05:01 G 42416587.60 42416587.71 42416587.82 0.0294 0.0151

Jupiter 111422-09-26 11:58 G 42417377.90 42417378.00 42417378.11 0.0525 0.0318

Jupiter 111422-12-24 18:56 G 42417467.19 42417467.29 42417467.39 0.0521 0.0329

Mars 111423-09-18 12:42 G 42417734.92 42417735.03 42417735.14 0.1775 0.0451

Mars 111424-10-16 23:44 G 42418129.40 42418129.49 42418129.58 0.1773 0.1467

Pluto 111427-12-10 13:25 G 42419279.00 42419279.06 42419279.17 0.0060 0.0054

Pluto 111428-03-07 15:06 G 42419367.01 42419367.13 42419367.27 0.0060 0.0044

Pluto 111428-06-03 16:18 G 42419455.04 42419455.18 42419455.36 0.0060 0.0035

Pluto 111428-08-30 17:58 G 42419543.08 42419543.25 42419543.43 0.0060 0.0025

Pluto 111428-11-26 19:10 G 42419631.12 42419631.30 42419631.50 0.0060 0.0016

Jupiter 111429-02-06 05:44 G 42419702.57 42419702.74 42419702.91 0.0503 0.0178

Pluto 111429-02-22 20:51 G 42419719.17 42419719.37 42419719.57 0.0060 0.0006

Pluto 111429-05-21 22:18 G 42419807.23 42419807.43 42419807.63 0.0060 0.0004

Earth 111429-06-26 10:03 G 42419842.82 42419842.92 42419843.02 0.2658 0.0874

Moon 111429-06-26 10:18 G 42419842.83 42419842.93 42419843.04 0.2652 0.0824 *

Pluto 111429-08-17 23:30 G 42419895.29 42419895.48 42419895.68 0.0060 0.0013

Pluto 111429-11-14 00:42 G 42419983.36 42419983.53 42419983.73 0.0060 0.0023

Pluto 111430-02-10 02:22 G 42420071.44 42420071.60 42420071.77 0.0060 0.0032

Pluto 111430-05-09 03:20 G 42420159.52 42420159.64 42420159.80 0.0060 0.0043

Pluto 111430-08-05 04:32 G 42420247.62 42420247.69 42420247.82 0.0060 0.0053

Earth 111432-01-01 08:08 G 42420761.70 42420761.84 42420761.97 0.2676 0.1346

Moon 111432-01-01 09:34 G 42420761.78 42420761.90 42420762.02 0.2673 0.1692 *

Mars 111433-02-07 22:32 G 42421165.33 42421165.44 42421165.56 0.1783 0.0368

Mars 111434-03-08 20:37 G 42421559.19 42421559.36 42421559.53 0.1763 0.0050

Jupiter 111434-07-15 15:49 G 42421688.11 42421688.16 42421688.21 0.0526 0.0485

Saturn 111434-08-22 19:10 G 42421726.17 42421726.30 42421726.45 0.0267 0.0168

Jupiter 111434-10-12 23:01 G 42421777.34 42421777.46 42421777.59 0.0523 0.0173

Saturn 111434-11-19 15:20 G 42421814.96 42421815.14 42421815.33 0.0266 0.0015

Saturn 111435-02-16 11:44 G 42421903.87 42421903.99 42421904.12 0.0266 0.0196

Venus 111439-02-10 14:51 G 42423359.08 42423359.12 42423359.16 0.3691 0.3336

Jupiter 111440-11-25 03:49 G 42424012.54 42424012.66 42424012.78 0.0503 0.0376

Jupiter 111441-02-23 11:01 G 42424102.89 42424102.96 42424103.05 0.0506 0.0449

Moon 111442-06-29 03:06 G 42424593.52 42424593.63 42424593.74 0.2652 0.0686

Earth 111442-06-29 03:34 G 42424593.54 42424593.65 42424593.75 0.2656 0.0765 *

Mars 111442-07-01 08:22 G 42424595.76 42424595.85 42424595.93 0.1792 0.1211

Mars 111443-07-29 17:44 G 42424989.16 42424989.24 42424989.32 0.1754 0.1526

Venus 111444-08-26 07:10 G 42425382.71 42425382.80 42425382.90 0.3687 0.1573

Jupiter 111446-08-01 03:20 G 42426087.51 42426087.64 42426087.77 0.0523 0.0020

Saturn 111449-06-21 05:15 G 42427142.66 42427142.72 42427142.78 0.0293 0.0256

Saturn 111449-09-17 17:58 G 42427231.12 42427231.25 42427231.38 0.0294 0.0081

Saturn 111449-12-15 06:27 G 42427319.65 42427319.77 42427319.90 0.0294 0.0094

Venus 111450-03-11 23:15 G 42427406.37 42427406.47 42427406.58 0.3684 0.0203

Saturn 111450-03-13 18:56 G 42427408.24 42427408.29 42427408.34 0.0294 0.0266

Neptune 111451-01-07 15:06 G 42427708.13 42427708.13 42427708.15 0.0089 0.0089

Neptune 111451-04-05 18:27 G 42427796.20 42427796.27 42427796.36 0.0089 0.0080

Neptune 111451-07-02 21:34 G 42427884.31 42427884.40 42427884.54 0.0089 0.0071

Venus 111451-09-26 22:32 G 42427970.35 42427970.44 42427970.53 0.3688 0.2836

Neptune 111451-09-29 01:10 G 42427972.43 42427972.55 42427972.70 0.0089 0.0061

Neptune 111451-12-26 04:46 G 42428060.55 42428060.70 42428060.86 0.0089 0.0051

Neptune 111452-03-23 07:54 G 42428148.68 42428148.83 42428149.02 0.0089 0.0042

Neptune 111452-06-19 11:30 G 42428236.81 42428236.98 42428237.17 0.0089 0.0032

Neptune 111452-09-15 15:06 G 42428324.95 42428325.13 42428325.32 0.0089 0.0022

Jupiter 111452-12-12 08:51 G 42428412.72 42428412.87 42428413.03 0.0505 0.0243

Neptune 111452-12-12 18:42 G 42428413.09 42428413.28 42428413.47 0.0089 0.0012

Neptune 111453-03-10 22:03 G 42428501.23 42428501.42 42428501.61 0.0089 0.0003

Neptune 111453-06-07 01:39 G 42428589.38 42428589.57 42428589.76 0.0089 0.0008

Neptune 111453-09-03 05:01 G 42428677.53 42428677.71 42428677.90 0.0089 0.0018

Mars 111453-10-27 02:37 G 42428731.53 42428731.61 42428731.68 0.1766 0.1346

Neptune 111453-11-30 08:22 G 42428765.68 42428765.85 42428766.04 0.0089 0.0028

Neptune 111454-02-26 12:13 G 42428853.83 42428854.01 42428854.18 0.0089 0.0038

Neptune 111454-05-25 15:34 G 42428941.99 42428942.15 42428942.31 0.0089 0.0048

Neptune 111454-08-21 19:10 G 42429030.16 42429030.30 42429030.45 0.0089 0.0058

Neptune 111454-11-17 22:32 G 42429118.32 42429118.44 42429118.57 0.0089 0.0068

Neptune 111455-02-14 02:08 G 42429206.50 42429206.59 42429206.69 0.0089 0.0078

Neptune 111455-05-13 05:44 G 42429294.71 42429294.74 42429294.78 0.0089 0.0088

Moon 111455-07-01 20:08 G 42429344.29 42429344.34 42429344.40 0.2655 0.2287

Earth 111455-07-01 20:51 G 42429344.33 42429344.37 42429344.42 0.2655 0.2378 *

Venus 111455-09-25 15:20 G 42429430.05 42429430.14 42429430.23 0.3680 0.1830

Uranus 111456-09-10 12:13 G 42429780.97 42429781.01 42429781.05 0.0139 0.0131

Uranus 111456-12-07 15:34 G 42429869.08 42429869.15 42429869.24 0.0139 0.0112

Uranus 111457-03-05 19:10 G 42429957.21 42429957.30 42429957.41 0.0139 0.0092

Venus 111457-04-12 05:30 G 42429994.60 42429994.73 42429994.86 0.3693 0.1849

Uranus 111457-06-01 23:01 G 42430045.35 42430045.46 42430045.58 0.0139 0.0072

Uranus 111457-08-29 02:37 G 42430133.49 42430133.61 42430133.74 0.0139 0.0052

Uranus 111457-11-25 06:13 G 42430221.63 42430221.76 42430221.89 0.0139 0.0033

Uranus 111458-02-21 09:49 G 42430309.77 42430309.91 42430310.04 0.0139 0.0013

Jupiter 111458-05-20 07:25 G 42430397.69 42430397.81 42430397.94 0.0524 0.0140

Uranus 111458-05-20 13:25 G 42430397.92 42430398.06 42430398.19 0.0139 0.0007 *

Uranus 111458-08-16 16:46 G 42430486.07 42430486.20 42430486.34 0.0140 0.0027

Jupiter 111458-08-17 14:08 G 42430487.05 42430487.09 42430487.12 0.0520 0.0498

Uranus 111458-11-12 20:22 G 42430574.23 42430574.35 42430574.48 0.0140 0.0046

Uranus 111459-02-08 23:44 G 42430662.38 42430662.49 42430662.62 0.0140 0.0066

Uranus 111459-05-08 03:20 G 42430750.54 42430750.64 42430750.75 0.0140 0.0085

Uranus 111459-08-04 06:56 G 42430838.70 42430838.79 42430838.88 0.0140 0.0104

Uranus 111459-10-31 10:18 G 42430926.88 42430926.93 42430927.00 0.0140 0.0124

Venus 111461-04-10 07:25 G 42431453.78 42431453.81 42431453.84 0.3677 0.3454

Moon 111462-06-24 21:20 G 42431894.33 42431894.39 42431894.45 0.2653 0.2213

Earth 111462-06-24 21:20 G 42431894.33 42431894.39 42431894.45 0.2659 0.2186 *

Mars 111463-03-19 12:42 G 42432161.92 42432162.03 42432162.14 0.1775 0.0556

Saturn 111464-01-09 16:18 G 42432458.11 42432458.18 42432458.27 0.0266 0.0239

Saturn 111464-04-07 12:42 G 42432546.85 42432547.03 42432547.21 0.0266 0.0058

Mars 111464-04-17 00:42 G 42432556.47 42432556.53 42432556.59 0.1773 0.1656

Saturn 111464-07-05 08:51 G 42432635.71 42432635.87 42432636.03 0.0266 0.0124

Jupiter 111464-09-30 07:10 G 42432722.62 42432722.80 42432722.98 0.0505 0.0044

Earth 111464-12-29 07:25 G 42432812.68 42432812.81 42432812.93 0.2674 0.1592

Moon 111464-12-29 08:51 G 42432812.73 42432812.87 42432813.00 0.2671 0.1382 *

Jupiter 111470-03-08 11:01 G 42434707.85 42434707.96 42434708.07 0.0524 0.0309

Jupiter 111470-06-05 17:58 G 42434797.15 42434797.25 42434797.34 0.0521 0.0337

Mars 111472-08-08 22:32 G 42435592.33 42435592.44 42435592.56 0.1783 0.0266

Mars 111473-09-06 21:20 G 42435986.22 42435986.39 42435986.56 0.1763 0.0120

Moon 111475-06-27 14:22 G 42436644.99 42436645.10 42436645.21 0.2653 0.0549

Earth 111475-06-27 14:51 G 42436645.01 42436645.12 42436645.23 0.2658 0.0529 *

Jupiter 111476-07-19 05:15 G 42437032.55 42437032.72 42437032.89 0.0504 0.0157

Moon 111478-01-01 14:37 G 42437564.01 42437564.11 42437564.22 0.2669 0.2023

Earth 111478-01-01 14:51 G 42437564.02 42437564.12 42437564.21 0.2677 0.2062 *

Saturn 111479-02-04 19:25 G 42437963.19 42437963.31 42437963.43 0.0294 0.0138

Saturn 111479-05-04 08:08 G 42438051.70 42438051.84 42438051.97 0.0294 0.0038

Saturn 111479-07-31 20:22 G 42438140.27 42438140.35 42438140.45 0.0294 0.0211

Jupiter 111481-12-25 14:37 G 42439018.06 42439018.11 42439018.17 0.0525 0.0476

Mars 111481-12-30 08:22 G 42439022.76 42439022.85 42439022.94 0.1792 0.1105

Jupiter 111482-03-24 21:49 G 42439107.29 42439107.41 42439107.54 0.0522 0.0181

Mars 111483-01-27 18:42 G 42439416.17 42439416.28 42439416.38 0.1754 0.1342

Jupiter 111488-05-07 02:22 G 42441342.49 42441342.60 42441342.73 0.0503 0.0367

Moon 111488-06-29 07:39 G 42441395.72 42441395.82 42441395.92 0.2659 0.0926

Earth 111488-06-29 08:22 G 42441395.75 42441395.85 42441395.95 0.2656 0.1109 *

Jupiter 111488-08-05 09:34 G 42441432.83 42441432.90 42441432.98 0.0506 0.0457

Mars 111493-04-27 02:22 G 42443158.54 42443158.60 42443158.67 0.1766 0.1447

Saturn 111493-08-25 13:25 G 42443278.89 42443279.06 42443279.23 0.0267 0.0098

Saturn 111493-11-22 09:34 G 42443367.72 42443367.90 42443368.08 0.0267 0.0085

Jupiter 111494-01-11 01:54 G 42443417.45 42443417.58 42443417.71 0.0524 0.0018

Venus 111495-09-17 12:27 G 42444031.96 42444032.02 42444032.09 0.3690 0.2752

Uranus 111497-09-27 05:44 G 42444772.66 42444772.74 42444772.83 0.0139 0.0121

Uranus 111497-12-24 12:42 G 42444860.91 42444861.03 42444861.17 0.0139 0.0095

Uranus 111498-03-22 19:54 G 42444949.17 42444949.33 42444949.50 0.0139 0.0069

Uranus 111498-06-19 03:06 G 42445037.46 42445037.63 42445037.81 0.0139 0.0043

Uranus 111498-09-15 10:18 G 42445125.75 42445125.93 42445126.12 0.0139 0.0016

Uranus 111498-12-12 17:30 G 42445214.04 42445214.23 42445214.42 0.0138 0.0010

Uranus 111499-03-11 00:42 G 42445302.35 42445302.53 42445302.71 0.0138 0.0037

Uranus 111499-06-07 07:54 G 42445390.67 42445390.83 42445391.00 0.0138 0.0064

Uranus 111499-09-03 15:06 G 42445479.00 42445479.13 42445479.28 0.0138 0.0090

Uranus 111499-11-30 22:18 G 42445567.35 42445567.43 42445567.54 0.0138 0.0117

Jupiter 111500-05-25 07:10 G 42445742.65 42445742.80 42445742.96 0.0505 0.0248

Venus 111501-04-03 04:46 G 42446055.60 42446055.70 42446055.80 0.3686 0.1011

Mars 111502-09-18 12:42 G 42446588.92 42446589.03 42446589.13 0.1774 0.0653

Jupiter 111505-10-31 05:58 G 42447727.63 42447727.75 42447727.88 0.0524 0.0140

Jupiter 111506-01-28 12:42 G 42447817.00 42447817.03 42447817.06 0.0521 0.0499

Venus 111506-10-17 20:51 G 42448079.27 42448079.37 42448079.48 0.3683 0.0712

Venus 111508-05-03 23:58 G 42448643.36 42448643.50 42448643.64 0.3689 0.1427

Saturn 111508-06-24 21:20 G 42448695.29 42448695.39 42448695.49 0.0293 0.0188

Moon 111508-06-26 01:25 G 42448696.49 42448696.56 42448696.64 0.2655 0.1933

Earth 111508-06-26 02:08 G 42448696.51 42448696.59 42448696.67 0.2659 0.1839 *

Saturn 111508-09-21 10:03 G 42448783.78 42448783.92 42448784.05 0.0293 0.0016

Saturn 111508-12-18 22:18 G 42448872.33 42448872.43 42448872.55 0.0294 0.0160

Moon 111510-12-31 13:25 G 42449614.91 42449615.06 42449615.21 0.2669 0.0888

Earth 111510-12-31 14:08 G 42449614.94 42449615.09 42449615.24 0.2675 0.0885 *

Mars 111512-02-08 22:32 G 42450019.33 42450019.44 42450019.55 0.1783 0.0164

Jupiter 111512-03-13 05:01 G 42450052.54 42450052.71 42450052.89 0.0504 0.0043

Venus 111512-05-02 12:56 G 42450102.96 42450103.04 42450103.12 0.3679 0.2363

Mars 111513-03-08 22:18 G 42450413.27 42450413.43 42450413.60 0.1764 0.0315

Venus 111513-11-18 07:10 G 42450667.74 42450667.80 42450667.86 0.3694 0.3338

Jupiter 111517-08-19 10:03 G 42452037.81 42452037.92 42452038.03 0.0525 0.0299

Jupiter 111517-11-16 17:01 G 42452127.11 42452127.21 42452127.30 0.0521 0.0348

Moon 111521-06-28 18:56 G 42453447.19 42453447.29 42453447.40 0.2662 0.0304

Earth 111521-06-28 19:39 G 42453447.21 42453447.32 42453447.43 0.2657 0.0189 *

Mars 111521-07-01 08:22 G 42453449.76 42453449.85 42453449.95 0.1791 0.0999

Mars 111522-07-29 19:10 G 42453843.18 42453843.30 42453843.42 0.1754 0.1183

Saturn 111523-01-13 10:46 G 42454010.82 42454010.95 42454011.10 0.0266 0.0166

Saturn 111523-04-12 07:10 G 42454099.61 42454099.80 42454099.98 0.0266 0.0016

Saturn 111523-07-10 03:20 G 42454188.52 42454188.64 42454188.77 0.0266 0.0199

Pluto 111523-09-04 13:54 G 42454245.03 42454245.08 42454245.15 0.0085 0.0075

Pluto 111523-12-01 15:06 G 42454333.04 42454333.13 42454333.24 0.0085 0.0057

Jupiter 111523-12-31 03:20 G 42454362.47 42454362.64 42454362.81 0.0504 0.0155

Moon 111524-01-03 19:54 G 42454366.27 42454366.33 42454366.40 0.2675 0.2433

Pluto 111524-02-27 16:18 G 42454421.08 42454421.18 42454421.31 0.0085 0.0039

Pluto 111524-05-25 17:44 G 42454509.11 42454509.24 42454509.37 0.0084 0.0020

Pluto 111524-08-21 18:56 G 42454597.16 42454597.29 42454597.42 0.0084 0.0002

Pluto 111524-11-17 20:08 G 42454685.21 42454685.34 42454685.47 0.0084 0.0016

Pluto 111525-02-13 21:06 G 42454773.27 42454773.38 42454773.51 0.0084 0.0034

Pluto 111525-05-12 22:32 G 42454861.34 42454861.44 42454861.54 0.0084 0.0051

Pluto 111525-08-08 23:30 G 42454949.42 42454949.48 42454949.56 0.0084 0.0069

Jupiter 111529-06-07 13:39 G 42456348.01 42456348.07 42456348.12 0.0525 0.0470

Jupiter 111529-09-04 20:51 G 42456437.25 42456437.37 42456437.49 0.0522 0.0185

Neptune 111531-08-08 18:56 G 42457140.27 42457140.29 42457140.34 0.0088 0.0086

Neptune 111531-11-04 20:37 G 42457228.31 42457228.36 42457228.43 0.0088 0.0078

Neptune 111532-01-31 22:03 G 42457316.35 42457316.42 42457316.50 0.0088 0.0071

Neptune 111532-04-28 23:30 G 42457404.39 42457404.48 42457404.58 0.0088 0.0064

Neptune 111532-07-26 00:56 G 42457492.44 42457492.54 42457492.64 0.0088 0.0058

Neptune 111532-10-22 02:08 G 42457580.49 42457580.59 42457580.71 0.0088 0.0051

Mars 111532-10-27 02:37 G 42457585.56 42457585.61 42457585.66 0.1765 0.1551

Neptune 111533-01-18 03:34 G 42457668.54 42457668.65 42457668.78 0.0088 0.0044

Neptune 111533-04-16 05:01 G 42457756.59 42457756.71 42457756.84 0.0088 0.0037

Neptune 111533-07-13 06:27 G 42457844.65 42457844.77 42457844.90 0.0088 0.0030

Neptune 111533-10-09 07:39 G 42457932.70 42457932.82 42457932.96 0.0088 0.0025

Neptune 111534-01-05 09:20 G 42458020.75 42458020.89 42458021.02 0.0088 0.0017

Neptune 111534-04-03 10:32 G 42458108.81 42458108.94 42458109.08 0.0088 0.0011

Neptune 111534-06-30 11:58 G 42458196.87 42458197.00 42458197.14 0.0088 0.0004

Earth 111534-07-01 13:10 G 42458197.95 42458198.05 42458198.14 0.2656 0.1450

Moon 111534-07-01 13:10 G 42458197.96 42458198.05 42458198.14 0.2662 0.1479 *

Neptune 111534-09-26 13:25 G 42458284.92 42458285.06 42458285.19 0.0088 0.0003

Neptune 111534-12-23 14:51 G 42458372.98 42458373.12 42458373.25 0.0088 0.0010

Neptune 111535-03-21 16:03 G 42458461.04 42458461.17 42458461.31 0.0088 0.0017

Neptune 111535-06-17 17:30 G 42458549.10 42458549.23 42458549.36 0.0088 0.0023

Neptune 111535-09-13 18:42 G 42458637.16 42458637.28 42458637.41 0.0088 0.0030

Jupiter 111535-10-19 01:39 G 42458672.44 42458672.57 42458672.69 0.0503 0.0351

Neptune 111535-12-10 19:54 G 42458725.22 42458725.33 42458725.46 0.0088 0.0037

Jupiter 111536-01-17 08:51 G 42458762.82 42458762.87 42458762.94 0.0506 0.0475

Neptune 111536-03-07 21:20 G 42458813.28 42458813.39 42458813.51 0.0088 0.0043

Neptune 111536-06-03 22:46 G 42458901.34 42458901.45 42458901.56 0.0088 0.0050

Neptune 111536-08-31 00:13 G 42458989.41 42458989.51 42458989.61 0.0088 0.0056

Neptune 111536-11-27 01:25 G 42459077.47 42459077.56 42459077.66 0.0088 0.0063

Neptune 111537-02-23 02:51 G 42459165.54 42459165.62 42459165.70 0.0088 0.0069

Neptune 111537-05-22 04:03 G 42459253.61 42459253.67 42459253.74 0.0088 0.0076

Neptune 111537-08-18 05:15 G 42459341.69 42459341.72 42459341.77 0.0088 0.0083

Saturn 111537-11-11 22:46 G 42459427.38 42459427.45 42459427.52 0.0293 0.0245

Saturn 111538-02-08 11:30 G 42459515.85 42459515.98 42459516.11 0.0294 0.0069

Saturn 111538-05-07 23:58 G 42459604.38 42459604.50 42459604.63 0.0294 0.0106

Saturn 111538-08-04 12:27 G 42459692.98 42459693.02 42459693.06 0.0294 0.0278

Uranus 111540-10-01 19:25 G 42460482.25 42460482.31 42460482.36 0.0139 0.0126

Uranus 111540-12-28 22:46 G 42460570.37 42460570.45 42460570.55 0.0139 0.0107

Uranus 111541-03-27 02:22 G 42460658.50 42460658.60 42460658.72 0.0139 0.0088

Uranus 111541-06-23 06:13 G 42460746.64 42460746.76 42460746.88 0.0139 0.0067

Jupiter 111541-06-24 00:42 G 42460747.40 42460747.53 42460747.66 0.0523 0.0025

Uranus 111541-09-19 09:49 G 42460834.78 42460834.91 42460835.04 0.0139 0.0048

Uranus 111541-12-16 13:25 G 42460922.93 42460923.06 42460923.20 0.0139 0.0028

Uranus 111542-03-14 17:01 G 42461011.08 42461011.21 42461011.35 0.0139 0.0008

Mars 111542-03-19 12:27 G 42461015.92 42461016.02 42461016.13 0.1774 0.0754

Uranus 111542-06-10 20:37 G 42461099.22 42461099.36 42461099.49 0.0139 0.0012

Uranus 111542-09-06 23:58 G 42461187.38 42461187.50 42461187.64 0.0140 0.0032

Uranus 111542-12-04 03:34 G 42461275.53 42461275.65 42461275.78 0.0140 0.0051

Uranus 111543-03-02 07:10 G 42461363.69 42461363.80 42461363.92 0.0140 0.0070

Uranus 111543-05-29 10:32 G 42461451.85 42461451.94 42461452.05 0.0140 0.0090

Uranus 111543-08-25 14:08 G 42461540.01 42461540.09 42461540.18 0.0140 0.0109

Uranus 111543-11-21 17:44 G 42461628.19 42461628.24 42461628.29 0.0140 0.0128

Jupiter 111547-11-05 05:44 G 42463072.59 42463072.74 42463072.90 0.0505 0.0254

Mars	111551-08-09 22:32 G	42464446.33	42464446.44	42464446.55	0.1783	0.0062	
Venus	111552-04-24 10:03 G	42464704.84	42464704.92	42464705.01	0.3689	0.2181	
Saturn	111552-06-01 11:58 G	42464742.88	42464743.00	42464743.11	0.0267	0.0204	
Saturn	111552-08-29 07:54 G	42464831.65	42464831.83	42464832.02	0.0267	0.0024	
Mars	111552-09-06 23:15 G	42464840.30	42464840.47	42464840.63	0.1764	0.0492	
Saturn	111552-11-26 04:03 G	42464920.53	42464920.67	42464920.83	0.0267	0.0161	
Jupiter	111553-04-12 04:18 G	42465057.56	42465057.68	42465057.81	0.0525	0.0144	
Jupiter	111553-07-10 11:01 G	42465146.93	42465146.96	42465147.00	0.0521	0.0497	
Moon	111554-06-27 06:13 G	42465498.68	42465498.76	42465498.85	0.2663	0.1528	
Earth	111554-06-27 06:56 G	42465498.70	42465498.79	42465498.88	0.2659	0.1493	*
Moon	111556-12-31 18:56 G	42466417.13	42466417.29	42466417.44	0.2674	0.0481	
Earth	111556-12-31 20:37 G	42466417.20	42466417.36	42466417.52	0.2675	0.0188	*
Venus	111557-11-08 02:22 G	42466728.50	42466728.60	42466728.71	0.3685	0.0446	
Jupiter	111559-08-24 03:34 G	42467382.47	42467382.65	42467382.82	0.0504	0.0048	
Mars	111560-12-30 08:22 G	42467876.75	42467876.85	42467876.95	0.1791	0.0905	
Mars	111562-01-27 20:08 G	42468270.20	42468270.34	42468270.48	0.1755	0.0997	
Venus	111563-05-24 18:27 G	42468752.18	42468752.27	42468752.37	0.3682	0.1261	
Venus	111564-12-09 01:39 G	42469316.42	42469316.57	42469316.72	0.3690	0.0031	
Jupiter	111565-01-29 08:22 G	42469367.75	42469367.85	42469367.96	0.0525	0.0304	
Jupiter	111565-04-28 15:20 G	42469457.05	42469457.14	42469457.24	0.0522	0.0345	
Saturn	111567-04-01 01:10 G	42470159.53	42470159.55	42470159.58	0.0293	0.0287	
Saturn	111567-06-28 13:54 G	42470247.96	42470248.08	42470248.21	0.0293	0.0112	
Moon	111567-06-30 00:27 G	42470249.41	42470249.52	42470249.63	0.2664	0.0120	
Earth	111567-06-30 00:27 G	42470249.41	42470249.52	42470249.63	0.2657	0.0176	*
Saturn	111567-09-25 02:37 G	42470336.48	42470336.61	42470336.74	0.0293	0.0063	
Saturn	111567-12-22 14:51 G	42470425.05	42470425.12	42470425.20	0.0293	0.0235	
Venus	111568-12-07 10:32 G	42470775.88	42470775.94	42470776.00	0.3678	0.2905	
Mars	111570-05-22 18:13 G	42471307.23	42471307.26	42471307.28	0.1800	0.1757	
Jupiter	111571-06-12 01:10 G	42471692.38	42471692.55	42471692.72	0.0504	0.0159	
Mars	111572-04-27 02:22 G	42472012.56	42472012.60	42472012.64	0.1766	0.1644	

Jupiter 111576-11-17 12:27 G 42473677.96 42473678.02 42473678.08 0.0526 0.0465

Jupiter 111577-02-14 19:39 G 42473767.20 42473767.32 42473767.44 0.0522 0.0192

Earth 111580-07-01 17:58 G 42475000.17 42475000.25 42475000.33 0.2656 0.1787

Moon 111580-07-01 18:27 G 42475000.20 42475000.27 42475000.35 0.2656 0.1968 *

Mars 111581-09-17 12:42 G 42475442.93 42475443.03 42475443.13 0.1774 0.0861

Uranus 111581-10-18 11:58 G 42475473.92 42475474.00 42475474.11 0.0139 0.0117

Uranus 111582-01-14 19:10 G 42475562.17 42475562.30 42475562.45 0.0139 0.0091

Saturn 111582-01-16 05:58 G 42475563.58 42475563.75 42475563.93 0.0267 0.0087

Uranus 111582-04-13 02:22 G 42475650.44 42475650.60 42475650.77 0.0139 0.0064

Saturn 111582-04-15 02:08 G 42475652.42 42475652.59 42475652.77 0.0266 0.0096

Uranus 111582-07-10 09:34 G 42475738.72 42475738.90 42475739.08 0.0139 0.0038

Uranus 111582-10-06 16:46 G 42475827.01 42475827.20 42475827.39 0.0138 0.0012

Uranus 111583-01-02 23:58 G 42475915.31 42475915.50 42475915.69 0.0138 0.0015

Jupiter 111583-03-30 23:30 G 42476002.36 42476002.48 42476002.61 0.0503 0.0354

Uranus 111583-04-01 07:10 G 42476003.62 42476003.80 42476003.98 0.0138 0.0041

Uranus 111583-06-28 14:08 G 42476091.94 42476092.09 42476092.27 0.0138 0.0069

Jupiter 111583-06-29 06:42 G 42476092.72 42476092.78 42476092.85 0.0506 0.0472

Uranus 111583-09-24 21:34 G 42476180.27 42476180.40 42476180.54 0.0138 0.0095

Uranus 111583-12-22 04:46 G 42476268.62 42476268.70 42476268.80 0.0138 0.0122

Jupiter 111588-12-03 23:30 G 42478077.34 42478077.48 42478077.61 0.0523 0.0032

Mars 111591-02-07 22:32 G 42478873.32 42478873.44 42478873.55 0.1782 0.0043

Mars 111592-03-07 23:44 G 42479267.34 42479267.49 42479267.65 0.1764 0.0660

Jupiter 111595-04-17 04:32 G 42480402.54 42480402.69 42480402.84 0.0505 0.0265

Saturn 111596-11-14 15:34 G 42480980.04 42480980.15 42480980.26 0.0293 0.0168

Saturn 111597-02-11 04:18 G 42481068.54 42481068.68 42481068.81 0.0294 0.0012

Saturn 111597-05-10 16:32 G 42481157.09 42481157.19 42481157.30 0.0294 0.0181

Earth 111600-06-27 11:44 G 42482300.89 42482300.99 42482301.08 0.2658 0.1148

Moon 111600-06-27 11:58 G 42482300.90 42482301.00 42482301.10 0.2665 0.1110 *

Mars 111600-06-30 08:22 G 42482303.75 42482303.85 42482303.95 0.1791 0.0800

Jupiter 111600-09-22 03:06 G 42482387.51 42482387.63 42482387.76 0.0524 0.0138

Jupiter 111600-12-20 09:49 G 42482476.88 42482476.91 42482476.94 0.0521 0.0500

Mars 111601-07-28 21:06 G 42482697.23 42482697.38 42482697.53 0.1755 0.0814

Moon 111603-01-02 02:51 G 42483219.47 42483219.62 42483219.78 0.2682 0.0363

Earth 111603-01-02 03:20 G 42483219.48 42483219.64 42483219.79 0.2675 0.0521 *

Venus 111603-05-16 15:34 G 42483354.11 42483354.15 42483354.19 0.3691 0.3359

Jupiter 111607-02-03 01:39 G 42484712.40 42484712.57 42484712.75 0.0504 0.0051

Venus 111608-11-29 07:54 G 42485377.73 42485377.83 42485377.92 0.3688 0.1598

Mars 111609-11-20 17:58 G 42485734.21 42485734.25 42485734.30 0.1799 0.1657

Saturn 111611-06-05 07:10 G 42486295.64 42486295.80 42486295.96 0.0267 0.0124

Saturn 111611-09-02 03:20 G 42486384.46 42486384.64 42486384.82 0.0267 0.0058

Mars 111611-10-27 02:22 G 42486439.59 42486439.60 42486439.62 0.1765 0.1751

Saturn 111611-11-29 23:30 G 42486473.42 42486473.48 42486473.56 0.0267 0.0243

Jupiter 111612-07-11 06:27 G 42486697.67 42486697.77 42486697.88 0.0525 0.0312

Jupiter 111612-10-08 13:39 G 42486786.97 42486787.07 42486787.17 0.0522 0.0338

Earth 111613-06-30 05:15 G 42487051.61 42487051.72 42487051.82 0.2657 0.0511

Moon 111613-06-30 05:44 G 42487051.64 42487051.74 42487051.85 0.2657 0.0645 *

Venus 111614-06-14 23:58 G 42487401.40 42487401.50 42487401.61 0.3684 0.0176

Neptune 111615-10-05 13:39 G 42487879.03 42487879.07 42487879.15 0.0089 0.0085

Venus 111615-12-30 20:22 G 42487965.28 42487965.35 42487965.43 0.3687 0.3119

Neptune 111616-01-01 17:15 G 42487967.13 42487967.22 42487967.33 0.0089 0.0075

Neptune 111616-03-29 20:22 G 42488055.25 42488055.35 42488055.50 0.0089 0.0066

Neptune 111616-06-25 23:58 G 42488143.37 42488143.50 42488143.66 0.0089 0.0056

Neptune 111616-09-22 03:34 G 42488231.49 42488231.65 42488231.82 0.0089 0.0046

Neptune 111616-12-19 06:56 G 42488319.63 42488319.79 42488319.97 0.0089 0.0036

Neptune 111617-03-17 10:18 G 42488407.76 42488407.93 42488408.12 0.0089 0.0027

Neptune 111617-06-13 13:54 G 42488495.90 42488496.08 42488496.27 0.0089 0.0017

Neptune 111617-09-09 17:30 G 42488584.04 42488584.23 42488584.42 0.0089 0.0007

Neptune 111617-12-06 20:51 G 42488672.18 42488672.37 42488672.56 0.0089 0.0004

Neptune 111618-03-05 00:13 G 42488760.33 42488760.51 42488760.71 0.0089 0.0014

Neptune 111618-06-01 03:49 G 42488848.48 42488848.66 42488848.85 0.0089 0.0023

Neptune 111618-08-28 07:10 G 42488936.63 42488936.80 42488936.99 0.0089 0.0033

Jupiter 111618-11-21 23:30 G 42489022.31 42489022.48 42489022.65 0.0503 0.0156

Neptune 111618-11-24 11:01 G 42489024.79 42489024.96 42489025.12 0.0089 0.0043

Neptune 111619-02-20 14:22 G 42489112.95 42489113.10 42489113.26 0.0089 0.0053

Neptune 111619-05-19 17:58 G 42489201.12 42489201.25 42489201.39 0.0089 0.0063

Neptune 111619-08-15 21:20 G 42489289.29 42489289.39 42489289.51 0.0089 0.0073

Neptune 111619-11-12 00:56 G 42489377.48 42489377.54 42489377.62 0.0089 0.0083

Venus 111619-12-29 16:03 G 42489425.08 42489425.17 42489425.26 0.3681 0.1810

Mars 111621-03-18 12:27 G 42489869.93 42489870.02 42489870.12 0.1774 0.0952

Venus 111621-07-16 03:20 G 42489989.50 42489989.64 42489989.77 0.3692 0.1500

Jupiter 111624-04-29 10:18 G 42491007.88 42491007.93 42491007.99 0.0526 0.0476

Jupiter 111624-07-27 17:44 G 42491097.12 42491097.24 42491097.36 0.0523 0.0183

Uranus 111624-10-22 02:37 G 42491183.55 42491183.61 42491183.68 0.0139 0.0121

Uranus 111625-01-18 06:13 G 42491271.67 42491271.76 42491271.85 0.0139 0.0101

Uranus 111625-04-16 09:49 G 42491359.80 42491359.91 42491360.02 0.0139 0.0082

Uranus 111625-07-13 13:25 G 42491447.94 42491448.06 42491448.19 0.0139 0.0062

Venus 111625-07-14 08:08 G 42491448.81 42491448.84 42491448.87 0.3678 0.3441

Uranus 111625-10-09 17:01 G 42491536.08 42491536.21 42491536.34 0.0139 0.0043

Uranus 111626-01-05 20:37 G 42491624.23 42491624.36 42491624.50 0.0139 0.0023

Saturn 111626-04-03 18:42 G 42491712.18 42491712.28 42491712.37 0.0293 0.0203

Uranus 111626-04-04 00:13 G 42491712.38 42491712.51 42491712.65 0.0139 0.0005

Uranus 111626-07-01 03:49 G 42491800.53 42491800.66 42491800.80 0.0139 0.0017

Saturn 111626-07-01 07:10 G 42491800.67 42491800.80 42491800.93 0.0293 0.0029 *

Earth 111626-07-02 22:32 G 42491802.38 42491802.44 42491802.51 0.2655 0.2126

Moon 111626-07-02 23:01 G 42491802.40 42491802.46 42491802.53 0.2650 0.2147 *

Uranus 111626-09-27 07:25 G 42491888.68 42491888.81 42491888.94 0.0140 0.0036

Saturn 111626-09-27 19:39 G 42491889.21 42491889.32 42491889.44 0.0293 0.0144

Uranus 111626-12-24 10:46 G 42491976.83 42491976.95 42491977.08 0.0140 0.0056

Uranus 111627-03-22 14:22 G 42492064.99 42492065.10 42492065.22 0.0140 0.0075

Uranus 111627-06-18 17:44 G 42492153.15 42492153.24 42492153.35 0.0140 0.0095

Uranus 111627-09-14 21:20 G 42492241.32 42492241.39 42492241.47 0.0140 0.0114

Uranus 111627-12-12 00:56 G 42492329.50 42492329.54 42492329.58 0.0140 0.0133

Mars 111630-08-08 22:32 G 42493300.32 42493300.44 42493300.55 0.1782 0.0145

Jupiter 111630-09-09 20:51 G 42493332.26 42493332.37 42493332.50 0.0503 0.0362

Jupiter 111630-12-09 04:18 G 42493422.61 42493422.68 42493422.75 0.0506 0.0461

Mars 111631-09-07 00:56 G 42493694.39 42493694.54 42493694.68 0.1765 0.0856

Earth 111633-06-25 22:46 G 42494352.41 42494352.45 42494352.49 0.2660 0.2465

Moon 111633-06-25 23:15 G 42494352.42 42494352.47 42494352.52 0.2665 0.2337 *

Moon 111635-12-31 02:37 G 42495270.55 42495270.61 42495270.67 0.2680 0.2427

Earth 111635-12-31 02:51 G 42495270.55 42495270.62 42495270.69 0.2674 0.2375 *

Jupiter 111636-05-15 22:03 G 42495407.29 42495407.42 42495407.55 0.0523 0.0029

Mars 111639-12-30 08:22 G 42496730.75 42496730.85 42496730.96 0.1791 0.0689

Saturn 111640-10-22 05:30 G 42497027.60 42497027.73 42497027.87 0.0267 0.0184

Saturn 111641-01-19 01:39 G 42497116.39 42497116.57 42497116.76 0.0267 0.0005

Mars 111641-01-26 21:49 G 42497124.25 42497124.41 42497124.56 0.1755 0.0649

Saturn 111641-04-17 21:49 G 42497205.29 42497205.41 42497205.56 0.0267 0.0182

Jupiter 111642-09-27 02:08 G 42497732.44 42497732.59 42497732.74 0.0505 0.0257

Earth 111646-06-28 16:18 G 42499103.08 42499103.18 42499103.29 0.2658 0.0805

Moon 111646-06-28 17:01 G 42499103.11 42499103.21 42499103.32 0.2658 0.0739 *

Jupiter 111648-03-04 01:39 G 42499717.44 42499717.57 42499717.70 0.0524 0.0139

Jupiter 111648-06-01 08:22 G 42499806.81 42499806.85 42499806.88 0.0521 0.0499

Earth 111649-01-02 10:03 G 42500021.78 42500021.92 42500022.06 0.2676 0.1228

Moon 111649-01-02 11:30 G 42500021.85 42500021.98 42500022.11 0.2680 0.1508 *

Mars 111649-05-21 17:58 G 42500161.20 42500161.25 42500161.31 0.1799 0.1556

Jupiter 111654-07-15 23:58 G 42502042.32 42502042.50 42502042.68 0.0504 0.0054

Saturn 111655-08-21 20:08 G 42502444.28 42502444.34 42502444.41 0.0293 0.0258

Saturn 111655-11-18 08:51 G 42502532.75 42502532.87 42502533.00 0.0293 0.0083

Saturn 111656-02-14 21:34 G 42502621.27 42502621.40 42502621.52 0.0294 0.0091

Saturn 111656-05-13 09:49 G 42502709.86 42502709.91 42502709.97 0.0294 0.0263

Earth 111659-07-01 10:03 G 42503853.81 42503853.92 42503854.02 0.2657 0.0849

Moon 111659-07-01 10:18 G 42503853.82 42503853.93 42503854.03 0.2650 0.0942 *

Venus 111659-12-21 13:10 G 42504026.98 42504027.05 42504027.12 0.3690 0.2771

Jupiter 111659-12-22 05:15 G 42504027.61 42504027.72 42504027.83 0.0525 0.0307

Jupiter 111660-03-20 12:13 G 42504116.92 42504117.01 42504117.11 0.0522 0.0341

Mars 111660-09-16 12:27 G 42504296.93 42504297.02 42504297.11 0.1774 0.1058

Venus 111665-07-06 05:30 G 42506050.63 42506050.73 42506050.83 0.3687 0.1022

Uranus 111665-08-11 11:30 G 42506086.98 42506086.98 42506087.02 0.0139 0.0138

Uranus 111665-11-07 18:42 G 42506175.18 42506175.28 42506175.40 0.0139 0.0112

Uranus 111666-02-04 01:54 G 42506263.44 42506263.58 42506263.73 0.0139 0.0086

Uranus 111666-05-03 08:51 G 42506351.71 42506351.87 42506352.05 0.0139 0.0060

Jupiter 111666-05-03 21:34 G 42506352.23 42506352.40 42506352.57 0.0503 0.0155

Uranus 111666-07-30 16:03 G 42506440.00 42506440.17 42506440.36 0.0139 0.0034

Uranus 111666-10-26 23:30 G 42506528.29 42506528.48 42506528.66 0.0138 0.0007

Uranus 111667-01-23 06:42 G 42506616.59 42506616.78 42506616.96 0.0138 0.0020

Uranus 111667-04-21 13:39 G 42506704.90 42506705.07 42506705.25 0.0138 0.0047

Uranus 111667-07-18 20:51 G 42506793.22 42506793.37 42506793.54 0.0138 0.0073

Uranus 111667-10-15 04:18 G 42506881.55 42506881.68 42506881.81 0.0138 0.0100

Uranus 111668-01-11 11:30 G 42506969.91 42506969.98 42506970.06 0.0138 0.0126

Mars 111670-02-06 22:32 G 42507727.32 42507727.44 42507727.55 0.1782 0.0248

Saturn 111670-03-11 06:42 G 42507759.68 42507759.78 42507759.89 0.0267 0.0221

Saturn 111670-06-08 02:51 G 42507848.44 42507848.62 42507848.80 0.0267 0.0039

Saturn 111670-09-04 23:01 G 42507937.31 42507937.46 42507937.62 0.0267 0.0146

Venus 111671-01-19 21:34 G 42508074.30 42508074.40 42508074.51 0.3684 0.0701

Mars 111671-03-08 01:39 G 42508121.44 42508121.57 42508121.71 0.1765 0.1040

Jupiter 111671-10-10 08:22 G 42508337.81 42508337.85 42508337.90 0.0526 0.0487

Jupiter 111672-01-07 15:49 G 42508427.04 42508427.16 42508427.28 0.0523 0.0173

Moon 111672-07-03 02:51 G 42508604.58 42508604.62 42508604.67 0.2651 0.2336

Earth 111672-07-03 03:20 G 42508604.61 42508604.64 42508604.68 0.2655 0.2469 *

Venus 111672-08-05 22:03 G 42508638.28 42508638.42 42508638.55 0.3688 0.1717

Pluto 111674-02-02 02:08 G 42509183.50 42509183.59 42509183.71 0.0060 0.0051

Pluto 111674-05-01 03:20 G 42509271.52 42509271.64 42509271.80 0.0060 0.0042

Pluto 111674-07-28 05:15 G 42509359.55 42509359.72 42509359.88 0.0060 0.0032

Pluto 111674-10-24 06:13 G 42509447.59 42509447.76 42509447.96 0.0060 0.0023

Pluto 111675-01-20 07:54 G 42509535.64 42509535.83 42509536.03 0.0060 0.0013

Pluto 111675-04-18 09:20 G 42509623.69 42509623.89 42509624.09 0.0060 0.0004

Pluto 111675-07-15 10:32 G 42509711.75 42509711.94 42509712.15 0.0060 0.0006

Pluto 111675-10-11 11:58 G 42509799.82 42509800.00 42509800.20 0.0060 0.0015

Pluto 111676-01-07 13:10 G 42509887.89 42509888.05 42509888.24 0.0060 0.0025

Pluto 111676-04-04 14:51 G 42509975.96 42509976.12 42509976.28 0.0060 0.0035

Pluto 111676-07-01 16:03 G 42510064.05 42510064.17 42510064.31 0.0060 0.0044

Venus 111676-08-04 13:39 G 42510097.99 42510098.07 42510098.15 0.3680 0.2356

Pluto 111676-09-27 17:01 G 42510152.16 42510152.21 42510152.33 0.0060 0.0055

Jupiter 111678-02-19 19:10 G 42510662.19 42510662.30 42510662.43 0.0502 0.0358

Venus 111678-02-20 05:01 G 42510662.62 42510662.71 42510662.79 0.3693 0.2983

Jupiter 111678-05-21 02:22 G 42510752.53 42510752.60 42510752.67 0.0505 0.0462

Earth 111679-06-27 03:34 G 42511154.59 42511154.65 42511154.72 0.2660 0.2116

Moon 111679-06-27 04:18 G 42511154.61 42511154.68 42511154.75 0.2658 0.2016 *

Mars 111679-06-30 08:22 G 42511157.74 42511157.85 42511157.95 0.1791 0.0601

Mars 111680-07-27 22:46 G 42511551.28 42511551.45 42511551.61 0.1756 0.0469

Earth 111681-12-31 09:20 G 42512072.77 42512072.89 42512073.02 0.2674 0.1679

Moon 111681-12-31 11:15 G 42512072.84 42512072.97 42512073.09 0.2676 0.1536 *

Jupiter 111683-10-26 19:54 G 42512737.20 42512737.33 42512737.46 0.0524 0.0017

Saturn 111685-01-07 23:30 G 42513176.47 42513176.48 42513176.50 0.0292 0.0288

Saturn 111685-04-06 12:13 G 42513264.89 42513265.01 42513265.14 0.0293 0.0114

Saturn 111685-07-04 00:42 G 42513353.41 42513353.53 42513353.67 0.0293 0.0061

Saturn 111685-09-30 13:10 G 42513441.97 42513442.05 42513442.13 0.0293 0.0232

Mars 111688-11-19 17:58 G 42514588.19 42514588.25 42514588.32 0.1799 0.1446

Jupiter 111690-03-08 23:15 G 42515062.32 42515062.47 42515062.63 0.0505 0.0245

Moon 111692-06-28 21:20 G 42515905.28 42515905.39 42515905.50 0.2651 0.0412

Earth 111692-06-28 21:06 G 42515905.28 42515905.38 42515905.49 0.2658 0.0466 *

Earth 111695-01-03 16:46 G 42516824.09 42516824.20 42516824.30 0.2676 0.1957

Moon 111695-01-03 18:13 G 42516824.18 42516824.26 42516824.34 0.2673 0.2261 *

Jupiter 111695-08-14 23:58 G 42517047.38 42517047.50 42517047.63 0.0524 0.0143

Jupiter 111695-11-12 06:42 G 42517136.75 42517136.78 42517136.82 0.0521 0.0497

Neptune 111696-05-04 18:56 G 42517311.25 42517311.29 42517311.35 0.0088 0.0081

Neptune 111696-07-31 20:37 G 42517399.29 42517399.36 42517399.43 0.0088 0.0074

Neptune 111696-10-27 21:34 G 42517487.33 42517487.40 42517487.50 0.0088 0.0068

Neptune 111697-01-23 23:01 G 42517575.38 42517575.46 42517575.57 0.0088 0.0062

Neptune 111697-04-22 00:42 G 42517663.43 42517663.53 42517663.64 0.0088 0.0054

Neptune 111697-07-19 02:08 G 42517751.48 42517751.59 42517751.71 0.0088 0.0047

Neptune 111697-10-15 03:34 G 42517839.53 42517839.65 42517839.77 0.0088 0.0040

Neptune 111698-01-11 04:46 G 42517927.58 42517927.70 42517927.83 0.0088 0.0034

Neptune 111698-04-09 06:13 G 42518015.64 42518015.76 42518015.90 0.0088 0.0027

Neptune 111698-07-06 07:39 G 42518103.69 42518103.82 42518103.96 0.0088 0.0020

Neptune 111698-10-02 09:06 G 42518191.75 42518191.88 42518192.02 0.0088 0.0013

Neptune 111698-12-29 10:32 G 42518279.80 42518279.94 42518280.07 0.0088 0.0007

Neptune 111699-03-27 11:58 G 42518367.86 42518368.00 42518368.13 0.0088 0.0002

Neptune 111699-06-23 13:10 G 42518455.92 42518456.05 42518456.19 0.0088 0.0007

Neptune 111699-09-19 14:37 G 42518543.98 42518544.11 42518544.24 0.0088 0.0013

Saturn 111699-10-26 01:54 G 42518580.41 42518580.58 42518580.76 0.0267 0.0094

Neptune 111699-12-16 15:49 G 42518632.03 42518632.16 42518632.30 0.0088 0.0021

Saturn 111700-01-22 22:18 G 42518669.25 42518669.43 42518669.60 0.0267 0.0089

Neptune 111700-03-14 17:15 G 42518720.09 42518720.22 42518720.35 0.0088 0.0027

Mars 111700-03-18 12:27 G 42518723.94 42518724.02 42518724.11 0.1773 0.1165

Neptune 111700-06-10 18:42 G 42518808.16 42518808.28 42518808.40 0.0088 0.0033

Neptune 111700-09-06 19:54 G 42518896.22 42518896.33 42518896.46 0.0088 0.0040

Neptune 111700-12-03 21:06 G 42518984.28 42518984.38 42518984.50 0.0088 0.0047

Neptune 111701-03-01 22:32 G 42519072.34 42519072.44 42519072.55 0.0088 0.0053

Neptune 111701-05-28 23:44 G 42519160.41 42519160.49 42519160.60 0.0088 0.0060

Neptune 111701-08-25 01:25 G 42519248.47 42519248.56 42519248.64 0.0088 0.0066

Neptune 111701-11-21 02:22 G 42519336.54   42519336.60   42519336.69 0.0088 0.0073

Jupiter 111701-12-26 21:20 G 42519372.21   42519372.39   42519372.57 0.0504 0.0042

Neptune 111702-02-17 04:03 G 42519424.61   42519424.67   42519424.72 0.0088 0.0079

Neptune 111702-05-16 05:01 G 42519512.70   42519512.71   42519512.75 0.0088 0.0086

Moon   111705-07-02 14:22 G 42520655.99   42520656.10   42520656.20 0.2652 0.1063

Earth   111705-07-02 14:51 G 42520656.02   42520656.12   42520656.21 0.2656 0.1192 *

Jupiter 111707-06-04 03:34 G 42521357.55   42521357.65   42521357.76 0.0525 0.0311

Jupiter 111707-09-01 10:32 G 42521446.85   42521446.94   42521447.04 0.0522 0.0338

Uranus   111708-08-16 05:58 G 42521796.74   42521796.75   42521796.79 0.0139 0.0136

Uranus   111708-11-12 09:49 G 42521884.84   42521884.91   42521884.99 0.0139 0.0116

Uranus   111709-02-08 13:25 G 42521972.97   42521973.06   42521973.16 0.0139 0.0096

Uranus   111709-05-07 17:15 G 42522061.10   42522061.22   42522061.33 0.0139 0.0077

Uranus   111709-08-03 20:37 G 42522149.24   42522149.36   42522149.49 0.0139 0.0057

Mars   111709-08-08 22:32 G 42522154.32   42522154.44   42522154.55 0.1782 0.0350

Uranus   111709-10-31 00:13 G 42522237.39   42522237.51   42522237.65 0.0139 0.0038

Uranus   111710-01-27 04:03 G 42522325.53   42522325.67   42522325.80 0.0139 0.0018

Uranus   111710-04-25 07:39 G 42522413.68   42522413.82   42522413.95 0.0139 0.0004

Uranus   111710-07-22 11:01 G 42522501.83   42522501.96   42522502.10 0.0140 0.0022

Mars   111710-09-07 02:22 G 42522548.48   42522548.60   42522548.72 0.1765 0.1205

Uranus   111710-10-18 14:37 G 42522589.98   42522590.11   42522590.24 0.0140 0.0041

Uranus   111711-01-14 18:13 G 42522678.14   42522678.26   42522678.38 0.0140 0.0061

Uranus   111711-04-12 21:34 G 42522766.30   42522766.40   42522766.52 0.0140 0.0080

Uranus   111711-07-10 01:10 G 42522854.46   42522854.55   42522854.65 0.0140 0.0100

Uranus   111711-10-06 04:32 G 42522942.63   42522942.69   42522942.77 0.0140 0.0119

Uranus   111712-01-02 08:08 G 42523030.83   42523030.84   42523030.86 0.0140 0.0138

Jupiter 111713-10-14 19:25 G 42523682.14   42523682.31   42523682.48 0.0503 0.0158

Saturn   111714-08-25 13:54 G 42523996.97   42523997.08   42523997.19 0.0293 0.0168

Saturn   111714-11-22 02:37 G 42524085.47   42524085.61   42524085.74 0.0293 0.0008

Saturn   111715-02-18 14:51 G 42524174.02   42524174.12   42524174.23 0.0294 0.0180

Venus   111716-07-28 10:46 G 42524699.87   42524699.95   42524700.04 0.3690 0.2190

Mars 111718-12-30 08:22 G 42525584.74 42525584.85 42525584.96 0.1790 0.0492

Jupiter 111719-03-23 07:10 G 42525667.75 42525667.80 42525667.85 0.0526 0.0482

Jupiter 111719-06-20 14:22 G 42525756.98 42525757.10 42525757.23 0.0523 0.0177

Mars 111720-01-27 23:44 G 42525978.32 42525978.49 42525978.65 0.1756 0.0281

Venus 111722-02-11 03:06 G 42526723.53 42526723.63 42526723.74 0.3686 0.0459

Moon 111725-06-28 08:22 G 42527956.77 42527956.85 42527956.93 0.2653 0.1798

Earth 111725-06-28 08:22 G 42527956.77 42527956.85 42527956.93 0.2659 0.1761 *

Jupiter 111725-08-02 17:15 G 42527992.10 42527992.22 42527992.34 0.0502 0.0359

Jupiter 111725-11-01 00:27 G 42528082.44 42528082.52 42528082.59 0.0505 0.0460

Venus 111727-08-27 19:25 G 42528747.21 42528747.31 42528747.40 0.3683 0.1251

Earth 111728-01-02 16:03 G 42528875.02 42528875.17 42528875.32 0.2674 0.0988

Moon 111728-01-02 17:15 G 42528875.07 42528875.22 42528875.37 0.2669 0.0742 *

Mars 111728-05-21 17:58 G 42529015.18 42529015.25 42529015.33 0.1799 0.1349

Venus 111729-03-13 23:30 G 42529311.33 42529311.48 42529311.63 0.3689 0.0288

Saturn 111729-03-15 03:06 G 42529312.47 42529312.63 42529312.79 0.0267 0.0131

Saturn 111729-06-11 23:15 G 42529401.29 42529401.47 42529401.65 0.0267 0.0052

Mars 111729-06-18 20:51 G 42529408.36 42529408.37 42529408.39 0.1747 0.1738

Saturn 111729-09-08 19:39 G 42529490.24 42529490.32 42529490.41 0.0267 0.0236

Jupiter 111731-04-08 17:58 G 42530067.11 42530067.25 42530067.38 0.0524 0.0019

Venus 111733-03-12 11:15 G 42530770.91 42530770.97 42530771.03 0.3679 0.2886

Jupiter 111737-08-19 21:34 G 42532392.24 42532392.40 42532392.56 0.0504 0.0246

Moon 111738-07-01 01:25 G 42532707.45 42532707.56 42532707.67 0.2654 0.0164

Earth 111738-07-01 01:54 G 42532707.47 42532707.58 42532707.69 0.2658 0.0150 *

Mars 111739-09-17 12:27 G 42533150.94 42533151.02 42533151.10 0.1773 0.1259

Moon 111741-01-04 22:46 G 42533626.39 42533626.45 42533626.50 0.2670 0.2494

Earth 111741-01-04 23:30 G 42533626.48 42533626.48 42533626.48 0.2677 0.2676 *

Jupiter 111743-01-25 21:49 G 42534377.28 42534377.41 42534377.53 0.0525 0.0159

Jupiter 111743-04-25 04:32 G 42534466.65 42534466.69 42534466.74 0.0521 0.0483

Saturn 111744-01-12 17:30 G 42534729.14 42534729.23 42534729.34 0.0293 0.0195

Saturn 111744-04-10 06:13 G 42534817.63 42534817.76 42534817.90 0.0293 0.0021

Saturn 111744-07-07 18:42 G 42534906.17 42534906.28 42534906.40 0.0293 0.0153

Mars 111749-02-06 22:32 G 42536581.32 42536581.44 42536581.55 0.1782 0.0454

Jupiter 111749-06-07 18:27 G 42536702.09 42536702.27 42536702.45 0.0504 0.0028

Uranus 111749-09-01 18:42 G 42536788.22 42536788.28 42536788.33 0.0139 0.0132

Uranus 111749-11-29 01:25 G 42536876.45 42536876.56 42536876.68 0.0139 0.0107

Uranus 111750-02-25 08:22 G 42536964.71 42536964.85 42536965.01 0.0139 0.0081

Mars 111750-03-08 03:20 G 42536975.54 42536975.64 42536975.75 0.1765 0.1407

Uranus 111750-05-24 15:34 G 42537052.99 42537053.15 42537053.33 0.0139 0.0055

Uranus 111750-08-20 22:46 G 42537141.27 42537141.45 42537141.64 0.0138 0.0028

Uranus 111750-11-17 05:58 G 42537229.57 42537229.75 42537229.94 0.0138 0.0002

Uranus 111751-02-13 13:10 G 42537317.87 42537318.05 42537318.24 0.0138 0.0025

Uranus 111751-05-12 20:22 G 42537406.18 42537406.35 42537406.53 0.0138 0.0051

Moon 111751-07-03 18:56 G 42537458.20 42537458.29 42537458.39 0.2660 0.1395

Earth 111751-07-03 19:39 G 42537458.23 42537458.32 42537458.41 0.2656 0.1531 *

Uranus 111751-08-09 03:20 G 42537494.50 42537494.64 42537494.81 0.0138 0.0078

Uranus 111751-11-05 10:46 G 42537582.84 42537582.95 42537583.08 0.0138 0.0104

Uranus 111752-02-01 17:58 G 42537671.20 42537671.25 42537671.32 0.0138 0.0131

Jupiter 111754-11-14 01:54 G 42538687.48 42538687.58 42538687.68 0.0525 0.0317

Jupiter 111755-02-11 08:51 G 42538776.78 42538776.87 42538776.97 0.0522 0.0333

Mars 111758-06-30 08:22 G 42540011.74 42540011.85 42540011.96 0.1790 0.0383

Saturn 111758-08-02 02:37 G 42540044.48 42540044.61 42540044.75 0.0267 0.0181

Saturn 111758-10-29 22:46 G 42540133.27 42540133.45 42540133.64 0.0267 0.0005

Saturn 111759-01-26 19:10 G 42540222.17 42540222.30 42540222.43 0.0267 0.0184

Mars 111759-07-29 00:13 G 42540405.34 42540405.51 42540405.68 0.1756 0.0117

Jupiter 111761-03-26 16:32 G 42541012.02 42541012.19 42541012.36 0.0503 0.0171

Jupiter 111766-09-02 05:30 G 42542997.68 42542997.73 42542997.77 0.0526 0.0487

Jupiter 111766-11-30 12:56 G 42543086.91 42543087.04 42543087.16 0.0523 0.0172

Venus 111767-08-19 16:03 G 42543349.13 42543349.17 42543349.21 0.3692 0.3377

Mars 111767-11-20 17:58 G 42543442.17 42543442.25 42543442.33 0.1799 0.1243

Mars 111768-12-17 21:49 G 42543835.34 42543835.41 42543835.48 0.1747 0.1562

Pluto 111769-10-28 04:46 G 42544149.63 42544149.70 42544149.77 0.0085 0.0071

Pluto 111770-01-24 05:58 G 42544237.65 42544237.75 42544237.86 0.0085 0.0053

Pluto 111770-04-22 07:10 G 42544325.68 42544325.80 42544325.93 0.0085 0.0035

Pluto 111770-07-19 08:22 G 42544413.73 42544413.85 42544413.98 0.0084 0.0017

Pluto 111770-10-15 09:34 G 42544501.77 42544501.90 42544502.04 0.0084 0.0003

Pluto 111771-01-11 10:46 G 42544589.83 42544589.95 42544590.08 0.0084 0.0020

Pluto 111771-04-09 11:58 G 42544677.89 42544678.00 42544678.12 0.0084 0.0038

Moon 111771-06-29 12:27 G 42544758.93 42544759.02 42544759.11 0.2657 0.1499

Earth 111771-06-29 13:10 G 42544758.96 42544759.05 42544759.15 0.2659 0.1412 *

Pluto 111771-07-06 13:10 G 42544765.95 42544766.05 42544766.15 0.0084 0.0055

Pluto 111771-10-02 14:08 G 42544854.04 42544854.09 42544854.17 0.0084 0.0073

Jupiter 111773-01-12 14:51 G 42545322.00 42545322.12 42545322.24 0.0503 0.0367

Venus 111773-03-04 08:37 G 42545372.76 42545372.86 42545372.95 0.3689 0.1624

Jupiter 111773-04-12 21:49 G 42545412.34 42545412.41 42545412.49 0.0506 0.0454

Saturn 111773-05-31 19:10 G 42545461.24 42545461.30 42545461.37 0.0293 0.0251

Saturn 111773-08-28 07:54 G 42545549.70 42545549.83 42545549.96 0.0293 0.0076

Saturn 111773-11-24 20:22 G 42545638.23 42545638.35 42545638.48 0.0293 0.0098

Moon 111774-01-02 21:49 G 42545677.25 42545677.41 42545677.56 0.2670 0.0344

Earth 111774-01-02 22:46 G 42545677.29 42545677.45 42545677.60 0.2675 0.0283 *

Saturn 111774-02-21 08:51 G 42545726.82 42545726.87 42545726.92 0.0294 0.0270

Venus 111778-09-18 00:42 G 42547396.43 42547396.53 42547396.64 0.3685 0.0144

Jupiter 111778-09-18 16:32 G 42547397.06 42547397.19 42547397.32 0.0524 0.0007

Mars 111779-03-18 12:27 G 42547577.95 42547578.02 42547578.09 0.1773 0.1360

Venus 111780-04-03 18:27 G 42547960.21 42547960.27 42547960.32 0.3686 0.3403

Neptune 111780-04-05 09:20 G 42547961.88 42547961.89 42547961.92 0.0089 0.0089

Neptune 111780-07-02 12:27 G 42548049.96 42548050.02 42548050.13 0.0089 0.0080

Neptune 111780-09-28 16:03 G 42548138.07 42548138.17 42548138.30 0.0089 0.0070

Neptune 111780-12-25 19:25 G 42548226.18 42548226.31 42548226.46 0.0089 0.0060

Neptune 111781-03-23 22:46 G 42548314.31 42548314.45 42548314.62 0.0089 0.0051

Neptune 111781-06-20 02:22 G 42548402.44 42548402.60 42548402.77 0.0089 0.0041

Neptune 111781-09-16 05:44 G 42548490.57 42548490.74 42548490.92 0.0089 0.0031

Neptune 111781-12-13 09:06 G 42548578.71 42548578.88 42548579.07 0.0089 0.0022

Neptune 111782-03-11 12:42 G 42548666.85 42548667.03 42548667.22 0.0089 0.0012

Neptune 111782-06-07 16:18 G 42548754.99 42548755.18 42548755.37 0.0089 0.0002

Neptune 111782-09-03 19:39 G 42548843.13 42548843.32 42548843.51 0.0089 0.0008

Neptune 111782-11-30 23:01 G 42548931.28 42548931.46 42548931.65 0.0089 0.0018

Neptune 111783-02-27 02:37 G 42549019.43 42549019.61 42549019.79 0.0089 0.0028

Neptune 111783-05-26 05:58 G 42549107.58 42549107.75 42549107.93 0.0089 0.0038

Neptune 111783-08-22 09:34 G 42549195.74 42549195.90 42549196.06 0.0089 0.0048

Neptune 111783-11-18 12:56 G 42549283.91 42549284.04 42549284.20 0.0089 0.0058

Neptune 111784-02-14 16:32 G 42549372.07 42549372.19 42549372.32 0.0089 0.0068

Venus 111784-04-02 16:46 G 42549420.11 42549420.20 42549420.29 0.3682 0.1781

Neptune 111784-05-12 19:54 G 42549460.25 42549460.33 42549460.44 0.0089 0.0078

Moon 111784-07-01 06:13 G 42549509.66 42549509.76 42549509.87 0.2662 0.0159

Earth 111784-07-01 06:56 G 42549509.68 42549509.79 42549509.89 0.2657 0.0268 *

Neptune 111784-08-08 23:30 G 42549548.46 42549548.48 42549548.53 0.0089 0.0088

Jupiter 111785-01-29 19:25 G 42549722.15 42549722.31 42549722.47 0.0504 0.0243

Venus 111785-10-19 00:56 G 42549984.40 42549984.54 42549984.68 0.3691 0.1127

Saturn 111787-12-20 03:49 G 42550776.56 42550776.66 42550776.76 0.0267 0.0220

Saturn 111788-03-17 23:44 G 42550865.31 42550865.49 42550865.68 0.0267 0.0038

Saturn 111788-06-14 19:54 G 42550954.18 42550954.33 42550954.49 0.0267 0.0146

Mars 111788-08-07 22:18 G 42551008.33 42551008.43 42551008.54 0.1781 0.0555

Mars 111789-09-06 04:18 G 42551402.61 42551402.68 42551402.75 0.1765 0.1585

Venus 111789-10-17 08:51 G 42551443.83 42551443.87 42551443.90 0.3678 0.3421

Jupiter 111790-07-07 19:39 G 42551707.20 42551707.32 42551707.45 0.0525 0.0172

Jupiter 111790-10-05 02:37 G 42551796.56 42551796.61 42551796.66 0.0521 0.0471

Uranus 111792-09-05 13:25 G 42552498.02 42552498.06 42552498.11 0.0139 0.0131

Uranus 111792-12-02 17:01 G 42552586.13 42552586.21 42552586.30 0.0139 0.0111

Uranus 111793-02-28 20:37 G 42552674.26 42552674.36 42552674.47 0.0139 0.0092

Uranus 111793-05-28 00:27 G 42552762.40 42552762.52 42552762.63 0.0139 0.0072

Uranus 111793-08-24 03:49 G 42552850.54 42552850.66 42552850.79 0.0139 0.0053

Uranus 111793-11-20 07:39 G 42552938.69 42552938.82 42552938.95 0.0139 0.0032

Uranus 111794-02-16 11:15 G 42553026.83 42553026.97 42553027.10 0.0140 0.0013

Uranus 111794-05-15 14:37 G 42553114.98 42553115.11 42553115.25 0.0140 0.0009

Uranus 111794-08-11 18:13 G 42553203.13 42553203.26 42553203.40 0.0140 0.0027

Uranus 111794-11-07 21:49 G 42553291.28 42553291.41 42553291.54 0.0140 0.0046

Uranus 111795-02-04 01:25 G 42553379.44 42553379.56 42553379.68 0.0140 0.0066

Uranus 111795-05-03 04:46 G 42553467.60 42553467.70 42553467.81 0.0140 0.0085

Uranus 111795-07-30 08:08 G 42553555.77 42553555.84 42553555.94 0.0140 0.0105

Uranus 111795-10-26 11:44 G 42553643.94 42553643.99 42553644.06 0.0140 0.0124

Jupiter 111796-11-17 16:46 G 42554032.02 42554032.20 42554032.38 0.0504 0.0032

Earth 111797-07-04 00:13 G 42554260.44 42554260.51 42554260.59 0.2656 0.1872

Moon 111797-07-04 00:27 G 42554260.45 42554260.52 42554260.59 0.2663 0.1956 *

Mars 111797-12-29 08:08 G 42554438.73 42554438.84 42554438.96 0.1790 0.0295

Mars 111799-01-27 01:10 G 42554832.39 42554832.55 42554832.72 0.1756 0.0088

Jupiter 111802-04-26 23:30 G 42556017.38 42556017.48 42556017.58 0.0526 0.0336

Jupiter 111802-07-25 06:42 G 42556106.68 42556106.78 42556106.89 0.0522 0.0316

Saturn 111802-10-19 23:01 G 42556193.42 42556193.46 42556193.50 0.0292 0.0276

Saturn 111803-01-16 11:44 G 42556281.86 42556281.99 42556282.11 0.0293 0.0101

Saturn 111803-04-15 00:13 G 42556370.38 42556370.51 42556370.64 0.0293 0.0072

Saturn 111803-07-12 12:42 G 42556458.96 42556459.03 42556459.10 0.0293 0.0244

Mars 111807-05-22 17:58 G 42557869.17 42557869.25 42557869.34 0.1798 0.1136

Mars 111808-06-18 22:32 G 42558262.34 42558262.44 42558262.55 0.1747 0.1385

Jupiter 111808-09-06 13:39 G 42558341.91 42558342.07 42558342.24 0.0503 0.0185

Jupiter 111814-02-13 03:34 G 42560327.61 42560327.65 42560327.69 0.0526 0.0495

Jupiter 111814-05-13 11:01 G 42560416.84 42560416.96 42560417.09 0.0523 0.0165

Saturn 111817-05-09 03:49 G 42561508.65 42561508.66 42561508.68 0.0267 0.0265

Moon 111817-06-30 17:30 G 42561561.13 42561561.23 42561561.33 0.2663 0.1114

Earth 111817-06-30 17:58 G 42561561.15 42561561.25 42561561.35 0.2659 0.1065 *

Saturn 111817-08-05 23:44 G 42561597.32 42561597.49 42561597.67 0.0267 0.0085

Saturn 111817-11-02 19:54 G 42561686.17 42561686.33 42561686.51 0.0267 0.0098

Mars 111818-09-17 12:27 G 42562004.96 42562005.02 42562005.08 0.1773 0.1471

Moon 111820-01-05 03:34 G 42562479.50 42562479.65 42562479.81 0.2677 0.0108

Earth 111820-01-05 05:15 G 42562479.57 42562479.72 42562479.88 0.2675 0.0430 *

Jupiter 111820-06-25 11:58 G 42562651.88 42562652.00 42562652.11 0.0502 0.0380

Jupiter 111820-09-23 18:42 G 42562742.20 42562742.28 42562742.38 0.0506 0.0438

Venus 111824-03-26 13:54 G 42564022.01 42564022.08 42564022.14 0.3691 0.2801

Jupiter 111826-03-01 14:51 G 42564726.99 42564727.12 42564727.25 0.0524 0.0012

Mars 111828-02-07 22:18 G 42565435.33 42565435.43 42565435.54 0.1781 0.0657

Mars 111829-03-08 05:01 G 42565829.70 42565829.71 42565829.72 0.1766 0.1761

Venus 111829-10-10 06:13 G 42566045.66 42566045.76 42566045.86 0.3688 0.1044

Earth 111830-07-03 11:44 G 42566311.88 42566311.99 42566312.09 0.2657 0.0595

Moon 111830-07-03 11:58 G 42566311.89 42566312.00 42566312.11 0.2663 0.0606 *

Saturn 111832-06-04 13:10 G 42567013.94 42567014.05 42567014.16 0.0293 0.0158

Jupiter 111832-07-12 16:46 G 42567052.04 42567052.20 42567052.36 0.0505 0.0233

Saturn 111832-09-01 01:54 G 42567102.44 42567102.58 42567102.71 0.0293 0.0018

Saturn 111832-11-28 14:22 G 42567191.00 42567191.10 42567191.20 0.0294 0.0189

Uranus 111833-09-23 01:25 G 42567489.50 42567489.56 42567489.65 0.0139 0.0126

Uranus 111833-12-20 08:37 G 42567577.74 42567577.86 42567577.99 0.0139 0.0100

Uranus 111834-03-18 15:49 G 42567666.00 42567666.16 42567666.31 0.0139 0.0074

Uranus 111834-06-14 22:46 G 42567754.28 42567754.45 42567754.63 0.0139 0.0048

Uranus 111834-09-11 05:58 G 42567842.57 42567842.75 42567842.93 0.0138 0.0022

Uranus 111834-12-08 13:10 G 42567930.86 42567931.05 42567931.23 0.0138 0.0005

Uranus 111835-03-06 20:08 G 42568019.16 42568019.34 42568019.53 0.0138 0.0031

Venus 111835-04-25 22:18 G 42568069.33 42568069.43 42568069.54 0.3684 0.0665

Uranus 111835-06-03 03:20 G 42568107.48 42568107.64 42568107.82 0.0138 0.0058

Uranus 111835-08-30 10:18 G 42568195.80 42568195.93 42568196.09 0.0138 0.0085

Uranus 111835-11-26 17:44 G 42568284.14 42568284.24 42568284.36 0.0138 0.0111

Uranus 111836-02-23 00:56 G 42568372.53 42568372.54 42568372.57 0.0138 0.0137

Venus 111836-11-09 19:39 G 42568633.20 42568633.32 42568633.45 0.3687 0.2035

Mars 111837-06-30 08:22 G 42568865.73 42568865.85 42568865.96 0.1790 0.0192

Jupiter 111837-12-18 18:27 G 42569037.15 42569037.27 42569037.40 0.0524 0.0166

Jupiter 111838-03-18 01:25 G 42569126.51 42569126.56 42569126.61 0.0521 0.0475

Mars 111838-07-29 02:08 G 42569259.42 42569259.59 42569259.76 0.1757 0.0261

Venus 111840-11-08 14:22 G 42570093.02 42570093.10 42570093.18 0.3681 0.2327

Venus 111842-05-27 02:22 G 42570657.50 42570657.60 42570657.71 0.3692 0.2594

Earth 111843-07-06 05:01 G 42571062.66 42571062.71 42571062.77 0.2656 0.2214

Moon 111843-07-06 05:44 G 42571062.69 42571062.74 42571062.79 0.2656 0.2354 *

Jupiter 111844-04-30 14:37 G 42571361.93 42571362.11 42571362.29 0.0504 0.0029

Mars 111846-11-20 17:58 G 42572296.16 42572296.25 42572296.35 0.1798 0.1035

Saturn 111846-12-24 00:27 G 42572329.36 42572329.52 42572329.68 0.0267 0.0127

Saturn 111847-03-22 20:37 G 42572418.18 42572418.36 42572418.54 0.0267 0.0056

Saturn 111847-06-19 17:01 G 42572507.13 42572507.21 42572507.29 0.0267 0.0240

Mars 111847-12-18 23:30 G 42572689.36 42572689.48 42572689.60 0.1747 0.1211

Jupiter 111849-10-06 21:34 G 42573347.30 42573347.40 42573347.50 0.0526 0.0346

Jupiter 111850-01-04 04:46 G 42573436.60 42573436.70 42573436.80 0.0522 0.0306

Moon 111850-06-29 04:46 G 42573612.66 42573612.70 42573612.74 0.2666 0.2416

Earth 111850-06-29 05:15 G 42573612.67 42573612.72 42573612.76 0.2660 0.2391 *

Moon 111853-01-02 03:34 G 42574530.61 42574530.65 42574530.68 0.2678 0.2583

Earth 111853-01-02 05:01 G 42574530.65 42574530.71 42574530.76 0.2673 0.2466 *

Jupiter 111856-02-17 12:13 G 42575671.84 42575672.01 42575672.17 0.0503 0.0178

Mars 111858-03-18 12:27 G 42576431.97 42576432.02 42576432.07 0.1772 0.1563

Neptune 111860-11-04 17:01 G 42577394.19 42577394.21 42577394.26 0.0088 0.0085

Neptune 111861-01-31 18:42 G 42577482.23 42577482.28 42577482.35 0.0088 0.0078

Neptune 111861-04-29 20:08 G 42577570.27 42577570.34 42577570.43 0.0088 0.0071

Jupiter 111861-07-26 01:10 G 42577657.53 42577657.55 42577657.58 0.0527 0.0513

Neptune 111861-07-26 21:34 G 42577658.31 42577658.40 42577658.50 0.0088 0.0064

Saturn 111861-10-22 16:46 G 42577746.10 42577746.20 42577746.31 0.0293 0.0185

Neptune 111861-10-22 23:01 G 42577746.36 42577746.46 42577746.57 0.0088 0.0057

Jupiter 111861-10-23 08:51 G 42577746.74 42577746.87 42577746.99 0.0523 0.0149

Neptune 111862-01-19 00:27 G 42577834.41 42577834.52 42577834.64 0.0088 0.0051

Saturn 111862-01-19 05:30 G 42577834.60 42577834.73 42577834.87 0.0293 0.0011 *

Neptune 111862-04-17 01:39 G 42577922.47 42577922.57 42577922.70 0.0088 0.0044

Saturn 111862-04-17 17:58 G 42577923.14 42577923.25 42577923.36 0.0293 0.0162

Neptune 111862-07-14 03:20 G 42578010.52 42578010.64 42578010.76 0.0088 0.0037

Neptune 111862-10-10 04:46 G 42578098.57 42578098.70 42578098.83 0.0088 0.0030

Neptune 111863-01-06 06:13 G 42578186.63 42578186.76 42578186.89 0.0088 0.0023

Neptune 111863-04-04 07:25 G 42578274.68 42578274.81 42578274.95 0.0088 0.0017

Neptune 111863-07-01 08:51 G 42578362.74 42578362.87 42578363.01 0.0088 0.0010

Earth 111863-07-01 22:46 G 42578363.35 42578363.45 42578363.56 0.2658 0.0722

Moon 111863-07-01 23:15 G 42578363.37 42578363.47 42578363.58 0.2663 0.0688 *

Neptune 111863-09-27 10:18 G 42578450.80 42578450.93 42578451.07 0.0088 0.0003

Neptune 111863-12-24 11:44 G 42578538.85 42578538.99 42578539.12 0.0088 0.0004

Neptune 111864-03-21 12:56 G 42578626.91 42578627.04 42578627.18 0.0088 0.0011

Neptune 111864-06-17 14:22 G 42578714.97 42578715.10 42578715.24 0.0088 0.0017

Neptune 111864-09-13 15:49 G 42578803.03 42578803.16 42578803.29 0.0088 0.0024

Neptune 111864-12-10 17:15 G 42578891.09 42578891.22 42578891.34 0.0088 0.0030

Neptune 111865-03-08 18:27 G 42578979.15 42578979.27 42578979.40 0.0088 0.0037

Neptune 111865-06-04 19:39 G 42579067.21 42579067.32 42579067.45 0.0088 0.0044

Neptune 111865-08-31 21:06 G 42579155.28 42579155.38 42579155.50 0.0088 0.0050

Neptune 111865-11-27 22:18 G 42579243.34 42579243.43 42579243.54 0.0088 0.0057

Moon 111866-01-05 11:44 G 42579281.85 42579281.99 42579282.13 0.2682 0.1041

Earth 111866-01-05 11:58 G 42579281.86 42579282.00 42579282.14 0.2675 0.1132 *

Neptune 111866-02-23 23:58 G 42579331.41 42579331.50 42579331.59 0.0088 0.0063

Neptune 111866-05-23 00:56 G 42579419.47 42579419.54 42579419.63 0.0088 0.0070

Neptune 111866-08-19 02:08 G 42579507.54 42579507.59 42579507.67 0.0088 0.0077

Neptune 111866-11-15 03:34 G 42579595.62 42579595.65 42579595.70 0.0088 0.0083

Mars 111867-08-08 22:18 G 42579862.33 42579862.43 42579862.54 0.1781 0.0761

Jupiter 111867-12-06 09:06 G 42579981.77 42579981.88 42579981.99 0.0502 0.0392

Jupiter 111868-03-05 15:49 G 42580072.07 42580072.16 42580072.26 0.0505 0.0423

Jupiter 111873-08-11 13:10 G 42582056.92 42582057.05 42582057.18 0.0524 0.0012

Saturn 111876-05-12 00:56 G 42583061.40 42583061.54 42583061.68 0.0267 0.0170

Earth 111876-07-03 16:18 G 42583114.08 42583114.18 42583114.29 0.2657 0.0935

Moon 111876-07-03 17:01 G 42583114.11 42583114.21 42583114.31 0.2657 0.1111 *

Saturn 111876-08-08 21:06 G 42583150.19 42583150.38 42583150.56 0.0267 0.0012

Uranus 111876-09-26 20:22 G 42583199.31 42583199.35 42583199.41 0.0139 0.0127

Saturn 111876-11-05 17:15 G 42583239.10 42583239.22 42583239.35 0.0267 0.0195

Uranus 111876-12-23 23:58 G 42583287.43 42583287.50 42583287.60 0.0139 0.0108

Mars 111876-12-29 08:22 G 42583292.73 42583292.85 42583292.96 0.1789 0.0074

Uranus 111877-03-22 03:49 G 42583375.56 42583375.66 42583375.77 0.0139 0.0087

Uranus 111877-06-18 07:25 G 42583463.69 42583463.81 42583463.93 0.0139 0.0068

Uranus 111877-09-14 11:01 G 42583551.84 42583551.96 42583552.09 0.0139 0.0048

Uranus 111877-12-11 14:37 G 42583639.98 42583640.11 42583640.25 0.0140 0.0028

Mars 111878-01-27 02:51 G 42583686.45 42583686.62 42583686.78 0.1757 0.0427

Uranus 111878-03-09 18:13 G 42583728.13 42583728.26 42583728.40 0.0140 0.0009

Uranus 111878-06-05 21:49 G 42583816.28 42583816.41 42583816.55 0.0140 0.0011

Uranus 111878-09-02 01:25 G 42583904.43 42583904.56 42583904.69 0.0140 0.0031

Uranus 111878-11-29 04:46 G 42583992.58 42583992.70 42583992.83 0.0140 0.0051

Uranus 111879-02-25 08:22 G 42584080.74 42584080.85 42584080.97 0.0140 0.0070

Uranus 111879-05-24 11:58 G 42584168.90 42584169.00 42584169.11 0.0140 0.0089

Uranus 111879-08-20 15:20 G 42584257.07 42584257.14 42584257.23 0.0140 0.0109

Uranus 111879-11-16 18:56 G 42584345.24 42584345.29 42584345.35 0.0140 0.0128

Jupiter 111879-12-23 13:39 G 42584381.91 42584382.07 42584382.24 0.0505 0.0218

Venus 111880-10-31 11:30 G 42584694.90 42584694.98 42584695.06 0.3690 0.2217

Jupiter 111885-05-30 17:01 G 42586367.08 42586367.21 42586367.33 0.0525 0.0169

Jupiter 111885-08-27 23:44 G 42586456.44 42586456.49 42586456.54 0.0521 0.0473

Venus 111886-05-17 03:49 G 42586718.56 42586718.66 42586718.76 0.3687 0.0478

Mars 111886-05-21 17:58 G 42586723.15 42586723.25 42586723.35 0.1798 0.0933

Mars 111887-06-19 00:13 G 42587116.38 42587116.51 42587116.65 0.1748 0.1036

Moon 111889-07-06 10:03 G 42587864.89 42587864.92 42587864.95 0.2648 0.2519

Earth 111889-07-06 09:49 G 42587864.89 42587864.91 42587864.94 0.2655 0.2553 *

Saturn 111891-03-11 17:58 G 42588478.18 42588478.25 42588478.33 0.0293 0.0246

Saturn 111891-06-08 06:42 G 42588566.65 42588566.78 42588566.91 0.0293 0.0071

Saturn 111891-09-04 19:25 G 42588655.18 42588655.31 42588655.43 0.0293 0.0103

Jupiter 111891-10-11 11:58 G 42588691.82 42588692.00 42588692.17 0.0504 0.0022

Venus 111891-11-30 19:54 G 42588742.23 42588742.33 42588742.43 0.3683 0.1216

Saturn 111891-12-02 07:39 G 42588743.78 42588743.82 42588743.87 0.0294 0.0275

Venus 111893-06-16 21:06 G 42589306.24 42589306.38 42589306.53 0.3688 0.0637

Mars 111895-10-12 03:34 G 42590153.65 42590153.65 42590153.65 0.1806 0.1803

Earth 111896-06-29 10:03 G 42590414.85 42590414.92 42590414.99 0.2660 0.2039

Moon 111896-06-29 10:18 G 42590414.86 42590414.93 42590415.01 0.2664 0.1927 *

Jupiter 111897-03-18 20:22 G 42590677.25 42590677.35 42590677.45 0.0525 0.0338

Venus 111897-06-15 11:58 G 42590765.94 42590766.00 42590766.06 0.3680 0.2866

Jupiter 111897-06-16 03:34 G 42590766.55 42590766.65 42590766.76 0.0522 0.0313

Mars 111897-09-16 12:27 G 42590858.98 42590859.02 42590859.05 0.1772 0.1670

Earth 111899-01-03 11:30 G 42591332.86 42591332.98 42591333.10 0.2674 0.1777

Moon 111899-01-03 11:44 G 42591332.88 42591332.99 42591333.10 0.2681 0.1822 *

Jupiter 111903-07-31 10:03 G 42593001.76 42593001.92 42593002.09 0.0503 0.0180

Saturn 111905-09-30 01:10 G 42593793.44 42593793.55 42593793.66 0.0267 0.0215

Saturn 111905-12-27 21:06 G 42593882.20 42593882.38 42593882.56 0.0267 0.0035

Saturn 111906-03-26 17:15 G 42593971.07 42593971.22 42593971.38 0.0267 0.0149

Mars 111907-02-07 22:18 G 42594289.33 42594289.43 42594289.53 0.1781 0.0862

Jupiter 111909-01-05 23:30 G 42594987.46 42594987.48 42594987.50 0.0526 0.0520

Jupiter 111909-04-05 06:56 G 42595076.67 42595076.79 42595076.92 0.0523 0.0142

Earth 111909-07-03 03:34 G 42595165.54 42595165.65 42595165.76 0.2658 0.0377

Moon 111909-07-03 04:18 G 42595165.57 42595165.68 42595165.79 0.2656 0.0284 *

Earth 111912-01-07 18:27 G 42596084.16 42596084.27 42596084.39 0.2676 0.1827

Moon 111912-01-07 20:08 G 42596084.25 42596084.34 42596084.43 0.2678 0.2176 *

Jupiter 111915-05-19 07:54 G 42597311.72 42597311.83 42597311.94 0.0502 0.0382

Jupiter 111915-08-17 14:37 G 42597402.02 42597402.11 42597402.20 0.0505 0.0433

Mars 111916-06-30 08:08 G 42597719.73 42597719.84 42597719.96 0.1789 0.0043

Mars 111917-07-29 03:49 G 42598113.50 42598113.66 42598113.82 0.1757 0.0617

Uranus 111917-10-14 08:37 G 42598190.78 42598190.86 42598190.96 0.0139 0.0120

Uranus 111918-01-10 15:34 G 42598279.03 42598279.15 42598279.30 0.0139 0.0094

Uranus 111918-04-08 22:46 G 42598367.29 42598367.45 42598367.61 0.0139 0.0068

Uranus 111918-07-06 05:44 G 42598455.57 42598455.74 42598455.92 0.0139 0.0042

Uranus 111918-10-02 12:56 G 42598543.86 42598544.04 42598544.23 0.0138 0.0016

Uranus 111918-12-29 20:08 G 42598632.15 42598632.34 42598632.53 0.0138 0.0011

Uranus 111919-03-28 03:06 G 42598720.46 42598720.63 42598720.82 0.0138 0.0038

Uranus 111919-06-24 10:18 G 42598808.77 42598808.93 42598809.10 0.0138 0.0064

Uranus 111919-09-20 17:30 G 42598897.10 42598897.23 42598897.38 0.0138 0.0090

Uranus 111919-12-18 00:42 G 42598985.44 42598985.53 42598985.64 0.0138 0.0117

Pluto 111920-01-01 14:51 G 42599000.03 42599000.12 42599000.21 0.0060 0.0053

Pluto 111920-03-29 15:49 G 42599088.04 42599088.16 42599088.31 0.0060 0.0044

Pluto 111920-06-25 17:01 G 42599176.07 42599176.21 42599176.39 0.0060 0.0035

Saturn 111920-07-29 21:34 G 42599210.36 42599210.40 42599210.45 0.0293 0.0275

Pluto 111920-09-21 18:42 G 42599264.11 42599264.28 42599264.47 0.0060 0.0025

Saturn 111920-10-26 10:18 G 42599298.81 42599298.93 42599299.06 0.0293 0.0100

Pluto 111920-12-18 20:08 G 42599352.16 42599352.34 42599352.54 0.0060 0.0016

Jupiter 111921-01-22 11:01 G 42599386.83 42599386.96 42599387.09 0.0524 0.0021

Saturn 111921-01-22 23:01 G 42599387.33 42599387.46 42599387.59 0.0293 0.0075

Pluto 111921-03-16 21:49 G 42599440.21 42599440.41 42599440.60 0.0060 0.0006

Saturn 111921-04-21 11:30 G 42599475.91 42599475.98 42599476.05 0.0293 0.0247

Pluto 111921-06-12 23:01 G 42599528.27 42599528.46 42599528.66 0.0060 0.0004

Pluto 111921-09-09 00:13 G 42599616.33 42599616.51 42599616.71 0.0060 0.0013

Pluto 111921-12-06 01:54 G 42599704.40 42599704.58 42599704.76 0.0060 0.0022

Pluto 111922-03-04 02:51 G 42599792.47 42599792.62 42599792.80 0.0060 0.0032

Pluto 111922-05-31 04:03 G 42599880.55 42599880.67 42599880.84 0.0060 0.0042

Moon 111922-07-05 21:20 G 42599916.29 42599916.39 42599916.48 0.2650 0.1302

Earth 111922-07-05 21:06 G 42599916.29 42599916.38 42599916.48 0.2657 0.1274 *

Pluto 111922-08-27 05:44 G 42599968.65 42599968.74 42599968.85 0.0060 0.0051

Mars 111925-11-20 17:58 G 42601150.15 42601150.25 42601150.36 0.1798 0.0821

Mars 111926-12-19 01:10 G 42601543.40 42601543.55 42601543.70 0.1748 0.0853

Jupiter 111927-06-05 11:01 G 42601711.80 42601711.96 42601712.12 0.0504 0.0207

Venus 111931-11-23 16:46 G 42603344.16 42603344.20 42603344.24 0.3693 0.3405

Jupiter 111932-11-10 15:20 G 42603697.01 42603697.14 42603697.26 0.0525 0.0174

Jupiter 111933-02-07 22:03 G 42603786.37 42603786.42 42603786.48 0.0522 0.0469

Saturn 111935-02-17 01:39 G 42604525.53 42604525.57 42604525.63 0.0267 0.0256

Mars 111935-04-13 03:34 G 42604580.62 42604580.65 42604580.69 0.1806 0.1702

Saturn 111935-05-16 21:49 G 42604614.24 42604614.41 42604614.59 0.0267 0.0076

Saturn 111935-08-13 17:44 G 42604703.08 42604703.24 42604703.42 0.0267 0.0107

Venus 111937-06-08 09:06 G 42605367.79 42605367.88 42605367.98 0.3689 0.1639

Jupiter 111939-03-24 09:06 G 42606021.70 42606021.88 42606022.06 0.0504 0.0007

Earth 111942-07-01 14:51 G 42607217.03 42607217.12 42607217.20 0.2659 0.1688

Moon 111942-07-01 15:20 G 42607217.06 42607217.14 42607217.23 0.2656 0.1632 *

Venus 111942-12-23 01:25 G 42607391.46 42607391.56 42607391.67 0.3686 0.0090

Venus 111944-07-08 16:18 G 42607955.18 42607955.18 42607955.19 0.3685 0.3678

Jupiter 111944-08-29 18:56 G 42608007.19 42608007.29 42608007.39 0.0525 0.0338

Jupiter 111944-11-27 02:08 G 42608096.49 42608096.59 42608096.70 0.0522 0.0314

Neptune 111945-01-02 08:08 G 42608132.80 42608132.84 42608132.93 0.0089 0.0084

Earth 111945-01-04 17:58 G 42608135.11 42608135.25 42608135.40 0.2674 0.1084

Moon 111945-01-04 19:39 G 42608135.18 42608135.32 42608135.47 0.2675 0.0900 *

Neptune 111945-03-31 11:44 G 42608220.90 42608220.99 42608221.11 0.0089 0.0074

Neptune 111945-06-27 15:06 G 42608309.01 42608309.13 42608309.27 0.0089 0.0064

Neptune 111945-09-23 18:27 G 42608397.14 42608397.27 42608397.43 0.0089 0.0055

Neptune 111945-12-20 21:49 G 42608485.26 42608485.41 42608485.59 0.0089 0.0045

Neptune 111946-03-19 01:25 G 42608573.39 42608573.56 42608573.74 0.0089 0.0035

Neptune 111946-06-15 04:46 G 42608661.53 42608661.70 42608661.89 0.0089 0.0026

Mars 111946-08-08 22:18 G 42608716.33 42608716.43 42608716.53 0.1780 0.0961

Neptune 111946-09-11 08:08 G 42608749.66 42608749.84 42608750.03 0.0089 0.0016

Neptune 111946-12-08 11:44 G 42608837.80   42608837.99   42608838.18 0.0089 0.0006

Neptune 111947-03-06 15:06 G 42608925.95   42608926.13   42608926.32 0.0089 0.0004

Neptune 111947-06-02 18:42 G 42609014.09   42609014.28   42609014.47 0.0089 0.0013

Neptune 111947-08-29 21:49 G 42609102.24   42609102.41   42609102.61 0.0089 0.0024

Neptune 111947-11-26 01:25 G 42609190.39   42609190.56   42609190.74 0.0089 0.0033

Neptune 111948-02-22 04:46 G 42609278.55   42609278.70   42609278.88 0.0089 0.0043

Neptune 111948-05-20 08:37 G 42609366.71   42609366.86   42609367.01 0.0089 0.0053

Venus   111948-07-07 17:30 G 42609415.14   42609415.23   42609415.32 0.3682 0.1770

Neptune 111948-08-16 11:58 G 42609454.87   42609455.00   42609455.14 0.0089 0.0063

Neptune 111948-11-12 15:20 G 42609543.04   42609543.14   42609543.26 0.0089 0.0073

Neptune 111949-02-08 18:56 G 42609631.23   42609631.29   42609631.37 0.0089 0.0083

Venus   111950-01-22 22:46 G 42609979.30   42609979.45   42609979.59 0.3690 0.0807

Saturn   111950-03-15 11:15 G 42610030.86   42610030.97   42610031.09 0.0293 0.0163

Saturn   111950-06-11 23:58 G 42610119.37   42610119.50   42610119.64 0.0293 0.0012

Saturn   111950-09-08 12:27 G 42610207.92   42610208.02   42610208.12 0.0294 0.0185

Jupiter 111951-01-10 07:25 G 42610331.65   42610331.81   42610331.97 0.0503 0.0190

Venus   111954-01-21 09:34 G 42611438.86   42611438.90   42611438.94 0.3679 0.3406

Moon   111955-07-04 08:22 G 42611967.74   42611967.85   42611967.97 0.2652 0.0120

Earth   111955-07-04 08:22 G 42611967.74   42611967.85   42611967.96 0.2658 0.0082 *

Mars   111955-12-30 08:08 G 42612146.73   42612146.84   42612146.96 0.1789 0.0153

Jupiter 111956-06-17 22:32 G 42612317.41   42612317.44   42612317.47 0.0526 0.0508

Jupiter 111956-09-15 05:58 G 42612406.63   42612406.75   42612406.88 0.0523 0.0153

Mars   111957-01-27 04:46 G 42612540.55   42612540.70   42612540.85 0.1758 0.0809

Earth   111958-01-08 01:10 G 42612886.51   42612886.55   42612886.60 0.2676 0.2544

Uranus   111960-10-18 03:20 G 42613900.59   42613900.64   42613900.71 0.0139 0.0123

Uranus   111961-01-14 07:10 G 42613988.71   42613988.80   42613988.89 0.0139 0.0103

Uranus   111961-04-12 10:46 G 42614076.85   42614076.95   42614077.06 0.0139 0.0084

Uranus   111961-07-09 14:37 G 42614164.99   42614165.11   42614165.23 0.0139 0.0064

Uranus   111961-10-05 18:13 G 42614253.13   42614253.26   42614253.39 0.0139 0.0044

Uranus   111962-01-01 21:49 G 42614341.27   42614341.41   42614341.54 0.0140 0.0024

Uranus 111962-03-31 01:25 G 42614429.42 42614429.56 42614429.69 0.0140 0.0006

Uranus 111962-06-27 04:46 G 42614517.57 42614517.70 42614517.84 0.0140 0.0016

Uranus 111962-09-23 08:22 G 42614605.72 42614605.85 42614605.98 0.0140 0.0035

Jupiter 111962-10-29 05:58 G 42614641.63 42614641.75 42614641.86 0.0502 0.0382

Uranus 111962-12-20 11:58 G 42614693.88 42614694.00 42614694.13 0.0140 0.0054

Jupiter 111963-01-27 12:27 G 42614731.94 42614732.02 42614732.12 0.0505 0.0434

Uranus 111963-03-18 15:20 G 42614782.03 42614782.14 42614782.26 0.0140 0.0074

Uranus 111963-06-14 18:56 G 42614870.20 42614870.29 42614870.40 0.0140 0.0093

Uranus 111963-09-10 22:32 G 42614958.36 42614958.44 42614958.52 0.0140 0.0112

Uranus 111963-12-08 01:54 G 42615046.55 42615046.58 42615046.63 0.0140 0.0132

Saturn 111964-10-02 21:20 G 42615346.23 42615346.39 42615346.55 0.0267 0.0127

Saturn 111964-12-30 17:30 G 42615435.05 42615435.23 42615435.41 0.0267 0.0055

Saturn 111965-03-29 13:39 G 42615523.99 42615524.07 42615524.15 0.0267 0.0239

Mars 111965-05-21 17:58 G 42615577.14 42615577.25 42615577.35 0.1798 0.0725

Mars 111966-06-19 01:54 G 42615970.43 42615970.58 42615970.74 0.1748 0.0680

Jupiter 111968-07-04 09:20 G 42616716.76 42616716.89 42616717.02 0.0524 0.0022

Moon 111968-07-06 01:25 G 42616718.47 42616718.56 42616718.65 0.2652 0.1442

Earth 111968-07-06 01:54 G 42616718.50 42616718.58 42616718.67 0.2656 0.1618 *

Mars 111974-10-12 03:34 G 42619007.60 42619007.65 42619007.70 0.1806 0.1596

Jupiter 111974-11-15 10:03 G 42619041.76 42619041.92 42619042.08 0.0504 0.0222

Saturn 111979-08-02 14:22 G 42620763.01 42620763.10 42620763.21 0.0293 0.0197

Saturn 111979-10-30 03:20 G 42620851.50 42620851.64 42620851.77 0.0293 0.0023

Saturn 111980-01-26 15:49 G 42620940.05 42620940.16 42620940.27 0.0293 0.0152

Jupiter 111980-04-22 13:10 G 42621026.93 42621027.05 42621027.17 0.0525 0.0184

Jupiter 111980-07-20 20:08 G 42621116.28 42621116.34 42621116.40 0.0522 0.0459

Mars 111986-02-06 22:18 G 42623143.34 42623143.43 42623143.52 0.1780 0.1070

Jupiter 111986-09-03 06:42 G 42623351.60 42623351.78 42623351.95 0.0503 0.0011

Venus 111988-06-29 14:22 G 42624017.04 42624017.10 42624017.17 0.3692 0.2818

Moon 111988-07-01 19:39 G 42624019.22 42624019.32 42624019.41 0.2652 0.1354

Earth 111988-07-01 19:39 G 42624019.22 42624019.32 42624019.41 0.2659 0.1336 *

Earth 111991-01-06 00:42 G 42624937.38 42624937.53 42624937.69 0.2675 0.0381

Moon 111991-01-06 01:25 G 42624937.40 42624937.56 42624937.72 0.2668 0.0172 *

Jupiter 111992-02-09 17:15 G 42625337.12 42625337.22 42625337.32 0.0526 0.0341

Jupiter 111992-05-09 00:42 G 42625426.42 42625426.53 42625426.63 0.0523 0.0312

Venus 111994-01-13 06:56 G 42626040.69 42626040.79 42626040.89 0.3688 0.1068

Saturn 111994-02-19 22:03 G 42626078.29 42626078.42 42626078.57 0.0267 0.0167

Saturn 111994-05-19 18:13 G 42626167.08 42626167.26 42626167.44 0.0267 0.0014

Saturn 111994-08-16 14:22 G 42626255.98 42626256.10 42626256.23 0.0266 0.0197

Mars 111995-06-30 08:22 G 42626573.73 42626573.85 42626573.96 0.1789 0.0248

Mars 111996-07-28 05:15 G 42626967.58 42626967.72 42626967.86 0.1758 0.0971

Jupiter 111998-06-22 04:46 G 42627661.54 42627661.70 42627661.86 0.0503 0.0198

Venus 111999-07-29 23:01 G 42628064.36 42628064.46 42628064.57 0.3685 0.0651

113TH MILLENNIUM CE

This is a list of transits of Mercury in the 113th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Venus 112001-02-12 17:44 G 42628628.13 42628628.24 42628628.35 0.3686 0.2316

Moon 112001-07-04 12:27 G 42628769.91 42628770.02 42628770.13 0.2656 0.0247

Earth 112001-07-04 13:10 G 42628769.94 42628770.05 42628770.16 0.2658 0.0334 *

Uranus 112001-11-03 15:34 G 42628892.06 42628892.15 42628892.27 0.0139 0.0114

Uranus 112002-01-30 22:46 G 42628980.31 42628980.45 42628980.60 0.0139 0.0088

Uranus 112002-04-29 05:44 G 42629068.58 42629068.74 42629068.91 0.0139 0.0062

Uranus 112002-07-26 12:56 G 42629156.86 42629157.04 42629157.22 0.0139 0.0036

Uranus 112002-10-22 19:54 G 42629245.15 42629245.33 42629245.52 0.0138 0.0010

Uranus 112003-01-19 03:06 G 42629333.45 42629333.63 42629333.82 0.0138 0.0017

Uranus 112003-04-17 10:03 G 42629421.75 42629421.92 42629422.11 0.0138 0.0044

Uranus 112003-07-14 17:15 G 42629510.07 42629510.22 42629510.39 0.0138 0.0070

Uranus 112003-10-11 00:27 G 42629598.40 42629598.52 42629598.66 0.0138 0.0096

Jupiter 112003-11-28 21:06 G 42629647.35 42629647.38 42629647.42 0.0526 0.0506

Uranus 112004-01-07 07:39 G 42629686.75 42629686.82 42629686.92 0.0138 0.0122

Jupiter 112004-02-26 04:46 G 42629736.57 42629736.70 42629736.82 0.0523 0.0155

Mars 112004-11-19 17:58 G 42630004.14 42630004.25 42630004.36 0.1797 0.0617

Venus 112005-02-11 15:06 G 42630088.05 42630088.13 42630088.21 0.3682 0.2316

Mars 112005-12-18 02:51 G 42630397.46 42630397.62 42630397.78 0.1749 0.0500

Venus 112006-08-30 00:13 G 42630652.39 42630652.51 42630652.63 0.3691 0.2247

Saturn 112008-12-19 15:06 G 42631495.08 42631495.13 42631495.19 0.0293 0.0264

Saturn 112009-03-18 03:49 G 42631583.54 42631583.66 42631583.79 0.0293 0.0089

Saturn 112009-06-14 16:32 G 42631672.06 42631672.19 42631672.32 0.0293 0.0086

Saturn 112009-09-11 05:01 G 42631760.65 42631760.71 42631760.77 0.0294 0.0258

Jupiter 112010-04-10 03:20 G 42631971.53 42631971.64 42631971.75 0.0502 0.0390

Jupiter 112010-07-09 10:03 G 42632061.83 42632061.92 42632062.02 0.0505 0.0425

Mars 112014-04-12 03:34 G 42633434.59 42633434.65 42633434.71 0.1806 0.1492

Moon 112014-07-07 06:13 G 42633520.69 42633520.76 42633520.84 0.2660 0.1878

Earth 112014-07-07 06:42 G 42633520.71 42633520.78 42633520.85 0.2656 0.1958 *

Pluto 112015-09-25 18:56 G 42633966.25 42633966.29 42633966.35 0.0085 0.0078

Jupiter 112015-12-15 08:37 G 42634046.73 42634046.86 42634046.99 0.0524 0.0012

Pluto 112015-12-22 20:08 G 42634054.26 42634054.34 42634054.44 0.0085 0.0060

Pluto 112016-03-19 21:20 G 42634142.29 42634142.39 42634142.51 0.0085 0.0042

Pluto 112016-06-15 22:46 G 42634230.32 42634230.45 42634230.58 0.0085 0.0023

Pluto 112016-09-11 23:58 G 42634318.37 42634318.50 42634318.63 0.0084 0.0005

Pluto 112016-12-09 01:10 G 42634406.42 42634406.55 42634406.68 0.0084 0.0013

Pluto 112017-03-07 02:22 G 42634494.48 42634494.60 42634494.72 0.0084 0.0031

Pluto 112017-06-03 03:34 G 42634582.54 42634582.65 42634582.76 0.0084 0.0048

Pluto 112017-08-30 04:32 G 42634670.62 42634670.69 42634670.78 0.0084 0.0066

Pluto 112017-11-26 05:44 G 42634758.74 42634758.74 42634758.76 0.0084 0.0084

Jupiter 112022-04-27 08:22 G 42636371.69 42636371.85 42636372.01 0.0504 0.0225

Saturn 112023-07-09 21:20 G 42636810.29 42636810.39 42636810.48 0.0267 0.0223

Saturn 112023-10-06 17:01 G 42636899.03 42636899.21 42636899.40 0.0267 0.0044

Saturn 112024-01-03 13:10 G 42636987.90 42636988.05 42636988.21 0.0267 0.0139

Neptune 112025-05-06 15:49 G 42637477.16 42637477.16 42637477.16 0.0088 0.0088

Neptune 112025-08-02 17:01 G 42637565.17 42637565.21 42637565.27 0.0088 0.0081

Mars 112025-08-07 22:18 G 42637570.34 42637570.43 42637570.52 0.1780 0.1169

Neptune 112025-10-29 18:27 G 42637653.21 42637653.27 42637653.35 0.0088 0.0075

Neptune 112026-01-25 20:08 G 42637741.25 42637741.34 42637741.43 0.0088 0.0067

Neptune 112026-04-23 21:06 G 42637829.30 42637829.38 42637829.50 0.0088 0.0062

Neptune 112026-07-20 22:46 G 42637917.35 42637917.45 42637917.56 0.0088 0.0054

Neptune 112026-10-17 00:13 G 42638005.40 42638005.51 42638005.63 0.0088 0.0047

Neptune 112027-01-13 01:39 G 42638093.45 42638093.57 42638093.70 0.0088 0.0040

Neptune 112027-04-11 03:06 G 42638181.51 42638181.63 42638181.76 0.0088 0.0033

Neptune 112027-07-08 04:18 G 42638269.56 42638269.68 42638269.82 0.0088 0.0027

Jupiter 112027-10-03 11:44 G 42638356.87 42638356.99 42638357.12 0.0525 0.0183

Neptune 112027-10-04 05:58 G 42638357.62 42638357.75 42638357.88 0.0088 0.0020

Neptune 112027-12-31 07:25 G 42638445.67 42638445.81 42638445.94 0.0088 0.0013

Jupiter 112027-12-31 18:42 G 42638446.22 42638446.28 42638446.34 0.0521 0.0460

Neptune 112028-03-28 08:37 G 42638533.73 42638533.86 42638534.00 0.0088 0.0007

Neptune 112028-06-24 10:03 G 42638621.79 42638621.92 42638622.06 0.0088 0.0002

Neptune 112028-09-20 11:30 G 42638709.85 42638709.98 42638710.12 0.0088 0.0007

Neptune 112028-12-17 12:56 G 42638797.91 42638798.04 42638798.17 0.0088 0.0014

Neptune 112029-03-15 14:08 G 42638885.97 42638886.09 42638886.23 0.0088 0.0021

Neptune 112029-06-11 15:34 G 42638974.02 42638974.15 42638974.28 0.0088 0.0027

Neptune 112029-09-07 16:46 G 42639062.09 42639062.20 42639062.33 0.0088 0.0034

Neptune 112029-12-04 18:13 G 42639150.15 42639150.26 42639150.39 0.0088 0.0041

Neptune 112030-03-02 19:39 G 42639238.21 42639238.32 42639238.44 0.0088 0.0047

Neptune 112030-05-29 20:51 G 42639326.27 42639326.37 42639326.48 0.0088 0.0054

Neptune 112030-08-25 22:18 G 42639414.34 42639414.43 42639414.53 0.0088 0.0060

Neptune 112030-11-21 23:30 G 42639502.40 42639502.48 42639502.58 0.0088 0.0067

Neptune 112031-02-18 00:56 G 42639590.47 42639590.54 42639590.62 0.0088 0.0073

Neptune 112031-05-17 02:08 G 42639678.55 42639678.59 42639678.66 0.0088 0.0080

Neptune 112031-08-13 03:49 G 42639766.64 42639766.66 42639766.68 0.0088 0.0086

Jupiter 112034-02-13 05:58 G 42640681.57 42640681.75 42640681.93 0.0504 0.0019

Moon 112034-07-02 23:44 G 42640821.39 42640821.49 42640821.59 0.2658 0.1043

Earth 112034-07-03 00:27 G 42640821.42 42640821.52 42640821.62 0.2659 0.0985 *

Mars 112034-12-29 08:08 G 42641000.73 42641000.84 42641000.95 0.1789 0.0340

Mars 112036-01-27 06:27 G 42641394.64 42641394.77 42641394.89 0.1758 0.1170

Moon 112037-01-06 06:13 G 42641739.61 42641739.76 42641739.92 0.2669 0.0203

Earth 112037-01-06 07:25 G 42641739.65 42641739.81 42641739.96 0.2675 0.0330 *

Saturn 112038-08-05 06:56 G 42642315.67 42642315.79 42642315.91 0.0293 0.0126

Saturn 112038-11-01 19:25 G 42642404.18 42642404.31 42642404.45 0.0293 0.0049

Saturn 112039-01-29 07:54 G 42642492.75 42642492.83 42642492.92 0.0293 0.0221

Jupiter 112039-07-22 15:34 G 42642667.05 42642667.15 42642667.25 0.0526 0.0347

Jupiter 112039-10-19 22:46 G 42642756.35 42642756.45 42642756.56 0.0523 0.0306

Mars 112044-05-20 17:58 G 42644431.14 42644431.25 42644431.36 0.1797 0.0508

Uranus 112044-08-11 06:56 G 42644513.79 42644513.79 42644513.79 0.0139 0.0139

Uranus 112044-11-07 10:18 G 42644601.87 42644601.93 42644602.01 0.0139 0.0120

Venus 112045-02-03 12:13 G 42644689.92 42644690.01 42644690.09 0.3691 0.2231

Uranus 112045-02-03 14:08 G 42644690.00 42644690.09 42644690.19 0.0139 0.0099 *

Uranus 112045-05-02 17:44 G 42644778.13 42644778.24 42644778.36 0.0139 0.0080

Mars 112045-06-18 03:34 G 42644824.48 42644824.65 42644824.82 0.1749 0.0324

Uranus 112045-07-29 21:34 G 42644866.27 42644866.40 42644866.52 0.0139 0.0060

Uranus 112045-10-26 01:10 G 42644954.42 42644954.55 42644954.68 0.0139 0.0040

Jupiter 112045-12-02 02:37 G 42644991.45 42644991.61 42644991.78 0.0503 0.0201

Uranus 112046-01-22 04:46 G 42645042.56 42645042.70 42645042.83 0.0140 0.0021

Uranus 112046-04-20 08:22 G 42645130.71 42645130.85 42645130.98 0.0140 0.0002

Uranus 112046-07-17 11:58 G 42645218.86 42645219.00 42645219.13 0.0140 0.0019

Uranus 112046-10-13 15:20 G 42645307.02 42645307.14 42645307.28 0.0140 0.0039

Uranus 112047-01-09 18:56 G 42645395.17 42645395.29 42645395.42 0.0140 0.0058

Uranus 112047-04-07 22:32 G 42645483.33 42645483.44 42645483.55 0.0140 0.0077

Uranus 112047-07-05 01:54 G 42645571.49 42645571.58 42645571.68 0.0140 0.0097

Moon 112047-07-05 17:30 G 42645572.12 42645572.23 42645572.34 0.2662 0.0523

Earth 112047-07-05 17:58 G 42645572.15 42645572.25 42645572.36 0.2657 0.0671 *

Uranus 112047-10-01 05:30 G 42645659.66 42645659.73 42645659.81 0.0140 0.0116

Uranus 112047-12-28 09:06 G 42645747.85 42645747.88 42645747.91 0.0140 0.0135

Venus 112050-08-20 04:32 G 42646713.58 42646713.69 42646713.79 0.3688 0.0497

Jupiter 112051-05-10 19:39 G 42646977.29 42646977.32 42646977.35 0.0527 0.0507

Jupiter 112051-08-08 03:20 G 42647066.51 42647066.64 42647066.76 0.0524 0.0156

Saturn 112052-11-25 21:49 G 42647542.40 42647542.41 42647542.45 0.0267 0.0263

Saturn 112053-02-22 17:44 G 42647631.08 42647631.24 42647631.42 0.0267 0.0084

Saturn 112053-05-22 13:54 G 42647719.91 42647720.08 42647720.25 0.0267 0.0098

Mars 112053-10-11 03:34 G 42647861.58 42647861.65 42647861.72 0.1806 0.1385

Venus 112056-03-04 20:37 G 42648737.26 42648737.36 42648737.46 0.3684 0.1201

Venus 112057-09-19 18:56 G 42649301.15 42649301.29 42649301.44 0.3687 0.0956

Jupiter 112057-09-20 01:10 G 42649301.44 42649301.55 42649301.66 0.0502 0.0394 *

Jupiter 112057-12-19 07:39 G 42649391.73 42649391.82 42649391.92 0.0505 0.0419

Earth 112060-07-07 11:30 G 42650322.93 42650322.98 42650323.03 0.2655 0.2294

Moon 112060-07-07 11:44 G 42650322.95 42650322.99 42650323.04 0.2662 0.2422 *

Venus 112061-09-18 12:42 G 42650760.97 42650761.03 42650761.10 0.3681 0.2855

Jupiter 112063-05-27 07:25 G 42651376.68 42651376.81 42651376.94 0.0524 0.0002

Mars 112065-02-05 22:18 G 42651997.35 42651997.43 42651997.51 0.1780 0.1272

Moon 112067-07-01 10:46 G 42652872.91 42652872.95 42652873.00 0.2659 0.2437

Earth 112067-07-01 11:30 G 42652872.93 42652872.98 42652873.04 0.2660 0.2306 *

Saturn 112067-12-23 07:25 G 42653047.71 42653047.81 42653047.91 0.0293 0.0195

Saturn 112068-03-20 20:08 G 42653136.20 42653136.34 42653136.47 0.0293 0.0021

Saturn 112068-06-17 08:37 G 42653224.75 42653224.86 42653224.97 0.0293 0.0153

Jupiter 112069-10-07 05:58 G 42653701.59 42653701.75 42653701.91 0.0505 0.0219

Moon 112070-01-04 05:30 G 42653790.72 42653790.73 42653790.75 0.2669 0.2656

Earth 112070-01-04 06:56 G 42653790.75 42653790.79 42653790.84 0.2673 0.2544 *

Mars 112074-06-29 08:08 G 42655427.73 42655427.84 42655427.95 0.1788 0.0446

Jupiter 112075-03-15 11:15 G 42655686.84 42655686.97 42655687.09 0.0525 0.0165

Jupiter 112075-06-12 18:13 G 42655776.21 42655776.26 42655776.31 0.0521 0.0477

Mars 112075-07-28 07:10 G 42655821.70 42655821.80 42655821.91 0.1758 0.1353

Moon 112080-07-03 04:46 G 42657623.60 42657623.70 42657623.81 0.2665 0.0705

Earth 112080-07-03 05:15 G 42657623.61 42657623.72 42657623.83 0.2659 0.0634 *

Jupiter 112081-07-26 04:18 G 42658011.50 42658011.68 42658011.86 0.0504 0.0024

Saturn 112082-07-12 16:03 G 42658363.03 42658363.17 42658363.33 0.0267 0.0146

Saturn 112082-10-09 12:13 G 42658451.83 42658452.01 42658452.19 0.0267 0.0036

Saturn 112083-01-06 08:22 G 42658540.75 42658540.85 42658540.96 0.0266 0.0219

Moon 112083-01-07 12:27 G 42658541.87 42658542.02 42658542.17 0.2678 0.0690

Earth 112083-01-07 13:54 G 42658541.94 42658542.08 42658542.23 0.2675 0.1025 *

Mars 112083-11-19 17:58 G 42658858.14 42658858.25 42658858.36 0.1797 0.0412

Mars 112084-12-17 04:32 G 42659251.52 42659251.69 42659251.85 0.1749 0.0152

Uranus 112085-08-27 15:34 G 42659505.11 42659505.15 42659505.20 0.0139 0.0134

Uranus 112085-11-23 22:18 G 42659593.33 42659593.43 42659593.55 0.0139 0.0109

Uranus 112086-02-20 05:30 G 42659681.58 42659681.73 42659681.88 0.0139 0.0083

Uranus 112086-05-19 12:27 G 42659769.86 42659770.02 42659770.19 0.0139 0.0057

Uranus 112086-08-15 19:39 G 42659858.14 42659858.32 42659858.50 0.0138 0.0031

Uranus 112086-11-12 02:37 G 42659946.43 42659946.61 42659946.80 0.0138 0.0005

Jupiter 112087-01-01 14:22 G 42659997.00 42659997.10 42659997.20 0.0526 0.0341

Uranus 112087-02-08 09:49 G 42660034.72 42660034.91 42660035.09 0.0138 0.0021

Jupiter 112087-03-31 21:34 G 42660086.30 42660086.40 42660086.51 0.0522 0.0311

Uranus 112087-05-07 16:46 G 42660123.03 42660123.20 42660123.38 0.0138 0.0048

Uranus 112087-08-03 23:44 G 42660211.35 42660211.49 42660211.66 0.0138 0.0075

Uranus 112087-10-31 07:10 G 42660299.68 42660299.80 42660299.93 0.0138 0.0100

Uranus 112088-01-27 14:08 G 42660388.03 42660388.09 42660388.18 0.0138 0.0127

Mars 112093-04-11 03:34 G 42662288.57 42662288.65 42662288.73 0.1806 0.1283

Jupiter 112093-05-14 02:22 G 42662321.43 42662321.60 42662321.76 0.0503 0.0178

Earth 112093-07-05 22:46 G 42662374.35 42662374.45 42662374.55 0.2657 0.1011

Moon 112093-07-05 23:15 G 42662374.37 42662374.47 42662374.57 0.2662 0.1085 *

Mars 112094-05-09 02:08 G 42662681.52 42662681.59 42662681.66 0.1740 0.1575

Venus 112096-02-25 17:30 G 42663339.19 42663339.23 42663339.26 0.3694 0.3426

Saturn 112097-05-11 09:34 G 42663779.83 42663779.90 42663779.98 0.0293 0.0240

Saturn 112097-08-07 22:32 G 42663868.31 42663868.44 42663868.57 0.0293 0.0064

Saturn 112097-11-04 11:01 G 42663956.84 42663956.96 42663957.09 0.0293 0.0111

Saturn 112098-01-31 23:30 G 42664045.45 42664045.48 42664045.52 0.0293 0.0282

Jupiter 112098-10-20 17:58 G 42664307.22 42664307.25 42664307.29 0.0527 0.0508

Jupiter 112099-01-18 01:39 G 42664396.45 42664396.57 42664396.70 0.0523 0.0154

Venus 112101-09-11 09:49 G 42665362.82 42665362.91 42665363.01 0.3690 0.1651

Mars 112104-08-07 22:18 G 42666424.36 42666424.43 42666424.50 0.1780 0.1379

Jupiter 112105-03-02 23:15 G 42666631.36 42666631.47 42666631.58 0.0502 0.0392

Jupiter 112105-06-01 05:44 G 42666721.65 42666721.74 42666721.84 0.0505 0.0420

Earth 112106-07-09 16:18 G 42667125.17 42667125.18 42667125.19 0.2655 0.2634

Venus 112107-03-28 02:08 G 42667386.48 42667386.59 42667386.69 0.3687 0.0089

Neptune 112109-07-04 03:49 G 42668215.64 42668215.66 42668215.72 0.0089 0.0088

Neptune 112109-09-30 07:39 G 42668303.73 42668303.82 42668303.91 0.0089 0.0078

Neptune 112109-12-27 10:46 G 42668391.84 42668391.95 42668392.08 0.0089 0.0068

Neptune 112110-03-25 14:22 G 42668479.96 42668480.10 42668480.24 0.0089 0.0059

Neptune 112110-06-21 17:30 G 42668568.08 42668568.23 42668568.39 0.0089 0.0049

Neptune 112110-09-17 20:51 G 42668656.21 42668656.37 42668656.55 0.0089 0.0040

Jupiter 112110-11-07 05:58 G 42668706.62 42668706.75 42668706.88 0.0525 0.0003

Neptune 112110-12-15 00:13 G 42668744.34 42668744.51 42668744.70 0.0089 0.0030

Neptune 112111-03-13 03:49 G 42668832.48 42668832.66 42668832.85 0.0089 0.0020

Neptune 112111-06-09 07:10 G 42668920.62 42668920.80 42668920.99 0.0089 0.0011

Neptune 112111-09-05 10:32 G 42669008.76 42669008.94 42669009.13 0.0089 0.0003

Saturn 112111-11-30 17:01 G 42669095.09 42669095.21 42669095.35 0.0267 0.0185

Neptune 112111-12-02 14:08 G 42669096.90 42669097.09 42669097.28 0.0089 0.0009

Saturn 112112-02-27 12:56 G 42669183.86 42669184.04 42669184.23 0.0267 0.0007

Neptune 112112-02-28 17:30 G 42669185.05 42669185.23 42669185.42 0.0089 0.0019

Saturn 112112-05-26 09:06 G 42669272.75 42669272.88 42669273.02 0.0267 0.0178

Neptune 112112-05-26 20:51 G 42669273.20 42669273.37 42669273.56 0.0089 0.0029

Neptune 112112-08-23 00:13 G 42669361.35 42669361.51 42669361.69 0.0089 0.0039

Venus 112112-10-10 18:13 G 42669410.17 42669410.26 42669410.35 0.3683 0.1750

Neptune 112112-11-19 03:34 G 42669449.51 42669449.65 42669449.83 0.0089 0.0049

Neptune 112113-02-15 06:56 G 42669537.67 42669537.79 42669537.96 0.0089 0.0059

Neptune 112113-05-14 11:01 G 42669625.84 42669625.96 42669626.08 0.0089 0.0068

Moon 112113-07-02 16:18 G 42669675.10 42669675.18 42669675.25 0.2666 0.1941

Earth 112113-07-02 16:18 G 42669675.11 42669675.18 42669675.26 0.2660 0.1959 *

Neptune 112113-08-10 14:22 G 42669714.01 42669714.10 42669714.20 0.0089 0.0078

Neptune 112113-11-06 17:44 G 42669802.22 42669802.24 42669802.28 0.0089 0.0088

Mars 112113-12-29 08:08 G 42669854.73 42669854.84 42669854.95 0.1788 0.0554

Venus 112114-04-27 20:37 G 42669974.21 42669974.36 42669974.50 0.3689 0.0473

Mars 112115-01-27 07:54 G 42670248.75 42670248.83 42670248.91 0.1758 0.1521

Moon 112116-01-06 12:13 G 42670592.91 42670593.01 42670593.11 0.2677 0.2051

Earth 112116-01-06 13:39 G 42670592.96 42670593.07 42670593.18 0.2673 0.1859 *

Jupiter 112117-03-20 03:49 G 42671031.50 42671031.66 42671031.82 0.0504 0.0217

Venus 112118-04-26 10:18 G 42671433.89 42671433.93 42671433.97 0.3680 0.3379

Jupiter 112122-08-26 10:03 G 42673016.80 42673016.92 42673017.05 0.0525 0.0158

Jupiter 112122-11-23 17:01 G 42673106.17 42673106.21 42673106.26 0.0522 0.0485

Mars 112123-05-21 17:58 G 42673285.13 42673285.25 42673285.36 0.1797 0.0311

Mars 112124-06-18 05:15 G 42673678.55 42673678.72 42673678.89 0.1749 0.0038

Earth 112126-07-05 10:03 G 42674425.81 42674425.92 42674426.03 0.2658 0.0284

Moon 112126-07-05 10:32 G 42674425.83 42674425.94 42674426.05 0.2664 0.0278 *

Saturn 112126-12-26 23:01 G 42674600.34 42674600.46 42674600.58 0.0293 0.0133

Saturn 112127-03-25 11:44 G 42674688.85 42674688.99 42674689.12 0.0293 0.0042

Saturn 112127-06-22 00:13 G 42674777.42 42674777.51 42674777.60 0.0293 0.0214

Uranus 112128-09-01 13:39 G 42675215.05 42675215.07 42675215.11 0.0139 0.0135

Uranus 112128-11-28 17:30 G 42675303.16 42675303.23 42675303.31 0.0139 0.0115

Jupiter 112129-01-06 02:08 G 42675341.42 42675341.59 42675341.77 0.0504 0.0024

Earth 112129-01-08 20:37 G 42675344.24 42675344.36 42675344.48 0.2675 0.1733

Moon 112129-01-08 20:37 G 42675344.25 42675344.36 42675344.48 0.2683 0.1760 *

Uranus 112129-02-24 21:06 G 42675391.29 42675391.38 42675391.48 0.0139 0.0096

Uranus 112129-05-24 00:56 G 42675479.42 42675479.54 42675479.65 0.0139 0.0076

Uranus 112129-08-20 04:18 G 42675567.56 42675567.68 42675567.81 0.0139 0.0057

Uranus 112129-11-16 08:08 G 42675655.71 42675655.84 42675655.97 0.0139 0.0036

Uranus 112130-02-12 11:44 G 42675743.86 42675743.99 42675744.13 0.0140 0.0017

Uranus 112130-05-11 15:20 G 42675832.00 42675832.14 42675832.28 0.0140 0.0003

Uranus 112130-08-07 18:56 G 42675920.16 42675920.29 42675920.42 0.0140 0.0023

Uranus 112130-11-03 22:32 G 42676008.31 42676008.44 42676008.57 0.0140 0.0042

Uranus 112131-01-31 02:08 G 42676096.47 42676096.59 42676096.71 0.0140 0.0062

Uranus 112131-04-29 05:30 G 42676184.63 42676184.73 42676184.84 0.0140 0.0081

Uranus 112131-07-26 09:06 G 42676272.79 42676272.88 42676272.97 0.0140 0.0101

Uranus 112131-10-22 12:27 G 42676360.96 42676361.02 42676361.10 0.0140 0.0120

Uranus 112132-01-18 16:03 G 42676449.17 42676449.17 42676449.19 0.0140 0.0139

Mars 112132-10-11 03:34 G 42676715.56 42676715.65 42676715.74 0.1805 0.1173

Mars 112133-11-08 02:51 G 42677108.53 42677108.62 42677108.72 0.1740 0.1405

Jupiter 112134-06-14 13:54 G 42677326.98 42677327.08 42677327.18 0.0526 0.0321

Jupiter 112134-09-11 21:06 G 42677416.28 42677416.38 42677416.48 0.0522 0.0330

Earth 112139-07-08 03:34 G 42679176.56 42679176.65 42679176.74 0.2657 0.1358

Moon 112139-07-08 04:18 G 42679176.59 42679176.68 42679176.77 0.2655 0.1543 *

Jupiter 112140-10-25 00:56 G 42679651.37 42679651.54 42679651.70 0.0503 0.0171

Saturn 112141-04-18 14:51 G 42679827.07 42679827.12 42679827.18 0.0267 0.0252

Saturn 112141-07-16 10:46 G 42679915.77 42679915.95 42679916.12 0.0267 0.0072

Saturn 112141-10-13 06:42 G 42680004.62 42680004.78 42680004.95 0.0267 0.0110

Mars 112144-02-06 22:18 G 42680851.37 42680851.43 42680851.49 0.1779 0.1479

Jupiter 112146-04-02 17:01 G 42681637.17 42681637.21 42681637.25 0.0526 0.0498

Jupiter 112146-07-01 00:42 G 42681726.41 42681726.53 42681726.65 0.0523 0.0162

Jupiter 112152-08-12 23:01 G 42683961.35 42683961.46 42683961.58 0.0502 0.0366

Venus 112152-10-02 15:06 G 42684012.06 42684012.13 42684012.20 0.3693 0.2837

Jupiter 112152-11-11 05:44 G 42684051.66 42684051.74 42684051.82 0.0505 0.0447

Mars 112153-06-29 08:08 G 42684281.73 42684281.84 42684281.95 0.1788 0.0650

Mars 112154-07-28 08:51 G 42684675.84 42684675.87 42684675.90 0.1759 0.1717

Saturn 112156-05-15 00:56 G 42685332.44 42685332.54 42685332.65 0.0293 0.0182

Saturn 112156-08-11 13:54 G 42685420.94 42685421.08 42685421.21 0.0293 0.0011

Saturn 112156-11-08 02:22 G 42685509.49 42685509.60 42685509.71 0.0293 0.0166

Venus 112158-04-18 07:25 G 42686035.71 42686035.81 42686035.91 0.3689 0.1092

Jupiter 112158-04-19 04:32 G 42686036.56 42686036.69 42686036.83 0.0524 0.0018

Earth 112159-07-03 21:06 G 42686477.30 42686477.38 42686477.47 0.2660 0.1609

Moon 112159-07-03 21:49 G 42686477.32 42686477.41 42686477.50 0.2665 0.1529 *

Earth 112162-01-06 20:08 G 42687395.20 42687395.34 42687395.48 0.2674 0.1173

Moon 112162-01-06 20:51 G 42687395.23 42687395.37 42687395.51 0.2680 0.1184 *

Mars 112162-11-19 17:58 G 42687712.14 42687712.25 42687712.36 0.1796 0.0190

Venus 112163-11-01 23:44 G 42688059.39 42688059.49 42688059.59 0.3686 0.0621

Mars 112163-12-18 05:58 G 42688105.59 42688105.75 42688105.92 0.1749 0.0220

Jupiter 112164-08-30 02:08 G 42688361.44 42688361.59 42688361.76 0.0504 0.0223

Venus 112165-05-18 15:34 G 42688623.05 42688623.15 42688623.25 0.3685 0.2626

Pluto 112165-11-28 02:22 G 42688816.55 42688816.60 42688816.69 0.0060 0.0056

Pluto 112166-02-24 04:03 G 42688904.56 42688904.67 42688904.81 0.0060 0.0046

Pluto 112166-05-23 05:15 G 42688992.58 42688992.72 42688992.89 0.0060 0.0037

Pluto 112166-08-19 07:10 G 42689080.62 42689080.80 42689080.97 0.0060 0.0027

Pluto 112166-11-15 08:08 G 42689168.67 42689168.84 42689169.04 0.0060 0.0018

Pluto 112167-02-11 09:34 G 42689256.72 42689256.90 42689257.11 0.0060 0.0009

Pluto 112167-05-10 11:15 G 42689344.77 42689344.97 42689345.17 0.0060 0.0001

Pluto 112167-08-06 12:27 G 42689432.83 42689433.02 42689433.22 0.0060 0.0011

Pluto 112167-11-02 13:54 G 42689520.90 42689521.08 42689521.27 0.0060 0.0020

Pluto 112168-01-29 15:06 G 42689608.97 42689609.13 42689609.32 0.0060 0.0030

Pluto 112168-04-26 16:32 G 42689697.06 42689697.19 42689697.35 0.0060 0.0040

Pluto 112168-07-23 17:44 G 42689785.15 42689785.24 42689785.37 0.0060 0.0049

Pluto 112168-10-19 19:39 G 42689873.28 42689873.32 42689873.36 0.0060 0.0059

Venus 112169-05-17 15:49 G 42690083.08 42690083.16 42690083.24 0.3682 0.2287

Uranus 112169-09-17 21:49 G 42690206.36 42690206.41 42690206.49 0.0139 0.0130

Uranus 112169-12-15 05:01 G 42690294.59 42690294.71 42690294.83 0.0139 0.0104

Jupiter 112170-02-05 08:51 G 42690346.74 42690346.87 42690346.99 0.0525 0.0154

Uranus 112170-03-13 11:44 G 42690382.85 42690382.99 42690383.16 0.0139 0.0079

Jupiter 112170-05-05 15:49 G 42690436.12 42690436.16 42690436.20 0.0522 0.0490

Uranus 112170-06-09 18:56 G 42690471.13 42690471.29 42690471.47 0.0139 0.0052

Uranus 112170-09-06 02:08 G 42690559.41 42690559.59 42690559.77 0.0138 0.0026

Venus 112170-12-02 22:03 G 42690647.29 42690647.42 42690647.55 0.3690 0.1887

Uranus 112170-12-03 09:06 G 42690647.70 42690647.88 42690648.07 0.0138 0.0003

Saturn 112170-12-03 11:30 G 42690647.82 42690647.98 42690648.15 0.0267 0.0113 *

Uranus 112171-03-01 16:03 G 42690736.00 42690736.17 42690736.36 0.0138 0.0027

Saturn 112171-03-02 07:25 G 42690736.64 42690736.81 42690736.99 0.0267 0.0069

Uranus 112171-05-28 23:15 G 42690824.30 42690824.47 42690824.65 0.0138 0.0052

Saturn 112171-05-30 03:34 G 42690825.60 42690825.65 42690825.71 0.0267 0.0252

Uranus 112171-08-25 06:27 G 42690912.62 42690912.77 42690912.93 0.0138 0.0079

Uranus 112171-11-21 13:25 G 42691000.95 42691001.06 42691001.20 0.0138 0.0105

Uranus 112172-02-17 20:51 G 42691089.32 42691089.37 42691089.43 0.0138 0.0131

Mars 112172-04-11 03:34 G 42691142.56 42691142.65 42691142.74 0.1805 0.1073

Earth 112172-07-05 14:51 G 42691228.01 42691228.12 42691228.23 0.2658 0.0060

Moon 112172-07-05 15:34 G 42691228.04 42691228.15 42691228.26 0.2655 0.0205 *

Mars 112173-05-09 03:34 G 42691535.53 42691535.65 42691535.77 0.1741 0.1241

Earth 112175-01-10 03:06 G 42692146.57 42692146.63 42692146.70 0.2676 0.2432

Jupiter 112176-06-18 00:27 G 42692671.34 42692671.52 42692671.70 0.0503 0.0023

Jupiter 112181-11-24 12:56 G 42694656.93 42694657.04 42694657.14 0.0526 0.0313

Jupiter 112182-02-21 20:08 G 42694746.24 42694746.34 42694746.44 0.0523 0.0339

Mars 112183-08-07 22:03 G 42695278.38 42695278.42 42695278.48 0.1779 0.1582

Moon 112185-07-08 08:37 G 42695978.77 42695978.86 42695978.94 0.2650 0.1688

Earth 112185-07-08 08:22 G 42695978.77 42695978.85 42695978.93 0.2656 0.1703 *

Saturn 112185-10-02 01:39 G 42696064.50 42696064.57 42696064.63 0.0293 0.0251

Saturn 112185-12-29 14:08 G 42696152.97 42696153.09 42696153.22 0.0293 0.0077

Saturn 112186-03-28 02:51 G 42696241.50 42696241.62 42696241.75 0.0293 0.0097

Saturn 112186-06-24 15:20 G 42696330.09 42696330.14 42696330.19 0.0293 0.0269

Jupiter 112188-04-05 23:01 G 42696981.29 42696981.46 42696981.62 0.0503 0.0170

Neptune 112190-02-01 15:34 G 42697648.12 42697648.15 42697648.19 0.0088 0.0084

Neptune 112190-04-30 17:01 G 42697736.15 42697736.21 42697736.28 0.0088 0.0077

Neptune 112190-07-27 18:27 G 42697824.19 42697824.27 42697824.35 0.0088 0.0070

Neptune 112190-10-23 19:39 G 42697912.24 42697912.32 42697912.43 0.0088 0.0064

Neptune 112191-01-19 21:06 G 42698000.29 42698000.38 42698000.50 0.0088 0.0057

Neptune 112191-04-17 22:32 G 42698088.34 42698088.44 42698088.56 0.0088 0.0050

Neptune 112191-07-15 00:13 G 42698176.39 42698176.51 42698176.63 0.0088 0.0043

Neptune 112191-10-11 01:39 G 42698264.44 42698264.57 42698264.69 0.0088 0.0036

Neptune 112192-01-07 02:51 G 42698352.50 42698352.62 42698352.76 0.0088 0.0030

Neptune 112192-04-04 04:18 G 42698440.55 42698440.68 42698440.82 0.0088 0.0023

Neptune 112192-07-01 05:44 G 42698528.61 42698528.74 42698528.88 0.0088 0.0016

Neptune 112192-09-27 07:10 G 42698616.67 42698616.80 42698616.94 0.0088 0.0009

Neptune 112192-12-24 08:37 G 42698704.72 42698704.86 42698705.00 0.0088 0.0003

Mars 112192-12-28 08:08 G 42698708.74 42698708.84 42698708.94 0.1788 0.0759

Neptune 112193-03-22 10:03 G 42698792.78 42698792.92 42698793.05 0.0088 0.0004

Neptune 112193-06-18 11:15 G 42698880.84 42698880.97 42698881.11 0.0088 0.0011

Jupiter 112193-09-12 16:32 G 42698967.14 42698967.19 42698967.25 0.0527 0.0478

Neptune 112193-09-14 12:42 G 42698968.90 42698969.03 42698969.17 0.0088 0.0018

Jupiter 112193-12-11 00:13 G 42699056.39 42699056.51 42699056.63 0.0523 0.0183

Neptune 112193-12-11 14:08 G 42699056.96 42699057.09 42699057.22 0.0088 0.0024

Neptune 112194-03-09 15:20 G 42699145.02 42699145.14 42699145.27 0.0088 0.0031

Neptune 112194-06-05 16:46 G 42699233.08 42699233.20 42699233.33 0.0088 0.0038

Neptune 112194-09-01 18:13 G 42699321.14 42699321.26 42699321.38 0.0088 0.0044

Neptune 112194-11-28 19:25 G 42699409.21 42699409.31 42699409.43 0.0088 0.0051

Neptune 112195-02-24 20:51 G 42699497.27 42699497.37 42699497.47 0.0088 0.0057

Neptune 112195-05-23 22:03 G 42699585.34 42699585.42 42699585.52 0.0088 0.0064

Neptune 112195-08-19 23:15 G 42699673.41 42699673.47 42699673.56 0.0088 0.0071

Neptune 112195-11-16 00:42 G 42699761.48 42699761.53 42699761.60 0.0088 0.0077

Neptune 112196-02-12 01:54 G 42699849.56 42699849.58 42699849.64 0.0088 0.0084

Jupiter 112200-01-23 21:34 G 42701291.29 42701291.40 42701291.53 0.0502 0.0358

Saturn 112200-04-22 08:51 G 42701379.74 42701379.87 42701380.00 0.0267 0.0183

Jupiter 112200-04-24 04:18 G 42701381.61 42701381.68 42701381.76 0.0505 0.0456

Saturn 112200-07-20 04:46 G 42701468.52 42701468.70 42701468.88 0.0267 0.0003

Saturn 112200-10-17 00:56 G 42701557.40 42701557.54 42701557.67 0.0267 0.0180

Mars 112202-05-21 17:44 G 42702139.13 42702139.24 42702139.36 0.1796 0.0113

Mars 112203-06-19 06:56 G 42702532.62 42702532.79 42702532.95 0.1750 0.0394

Earth 112205-07-05 01:54 G 42703279.49 42703279.58 42703279.68 0.2659 0.1261

Moon 112205-07-05 02:37 G 42703279.51 42703279.61 42703279.71 0.2656 0.1210 *

Jupiter 112205-09-30 03:49 G 42703366.53 42703366.66 42703366.79 0.0524 0.0018

Earth 112208-01-09 02:37 G 42704197.46 42704197.61 42704197.77 0.2674 0.0485

Moon 112208-01-09 04:32 G 42704197.53 42704197.69 42704197.84 0.2675 0.0205 *

Venus 112209-05-10 12:42 G 42704684.95 42704685.03 42704685.12 0.3692 0.2260

Mars 112211-10-12 03:34 G 42705569.55 42705569.65 42705569.75 0.1805 0.0963

Jupiter 112212-02-11 02:08 G 42705691.44 42705691.59 42705691.75 0.0504 0.0251

Uranus 112212-09-22 21:06 G 42705916.33 42705916.38 42705916.42 0.0139 0.0131

Mars 112212-11-08 04:32 G 42705962.56 42705962.69 42705962.82 0.1741 0.1054

Uranus 112212-12-20 00:27 G 42706004.45 42706004.52 42706004.61 0.0139 0.0111

Uranus 112213-03-18 04:03 G 42706092.58 42706092.67 42706092.78 0.0139 0.0092

Uranus 112213-06-14 07:54 G 42706180.72 42706180.83 42706180.95 0.0139 0.0071

Uranus 112213-09-10 11:30 G 42706268.86 42706268.98 42706269.11 0.0139 0.0052

Uranus 112213-12-07 15:20 G 42706357.00 42706357.14 42706357.27 0.0139 0.0032

Uranus 112214-03-05 18:56 G 42706445.15 42706445.29 42706445.42 0.0139 0.0012

Uranus 112214-06-01 22:32 G 42706533.30 42706533.44 42706533.57 0.0140 0.0008

Uranus 112214-08-29 01:54 G 42706621.45 42706621.58 42706621.72 0.0140 0.0028

Venus 112214-11-24 05:01 G 42706708.61 42706708.71 42706708.82 0.3688 0.0540

Uranus 112214-11-25 05:30 G 42706709.61 42706709.73 42706709.86 0.0140 0.0047

Uranus 112215-02-21 09:06 G 42706797.77 42706797.88 42706798.00 0.0140 0.0066

Saturn 112215-05-19 16:03 G 42706885.05 42706885.17 42706885.29 0.0293 0.0129

Uranus 112215-05-20 12:42 G 42706885.93 42706886.03 42706886.14 0.0140 0.0086

Saturn 112215-08-16 04:46 G 42706973.57 42706973.70 42706973.83 0.0293 0.0046

Uranus 112215-08-16 16:18 G 42706974.09 42706974.18 42706974.27 0.0140 0.0105

Saturn 112215-11-12 17:15 G 42707062.14 42707062.22 42707062.31 0.0293 0.0219

Uranus 112215-11-12 19:39 G 42707062.27 42707062.32 42707062.39 0.0140 0.0125 *

Jupiter 112217-07-19 07:39 G 42707676.69 42707676.82 42707676.94 0.0525 0.0148

Jupiter 112217-10-16 14:37 G 42707766.07 42707766.11 42707766.15 0.0522 0.0495

Moon 112218-07-07 19:39 G 42708030.21 42708030.32 42708030.43 0.2651 0.0462

Earth 112218-07-07 19:39 G 42708030.21 42708030.32 42708030.43 0.2658 0.0406 *

Venus 112220-06-08 21:20 G 42708732.29 42708732.39 42708732.49 0.3685 0.1176

Venus 112221-12-24 17:01 G 42709296.07 42709296.21 42709296.35 0.3686 0.1251

Mars 112223-02-06 22:18 G 42709705.40 42709705.43 42709705.46 0.1779 0.1691

Jupiter 112223-11-29 23:01 G 42710001.28 42710001.46 42710001.64 0.0503 0.0031

Venus 112225-12-23 13:25 G 42710756.00 42710756.06 42710756.13 0.3681 0.2828

Venus 112227-07-10 23:44 G 42711320.43 42711320.49 42711320.55 0.3691 0.3352

Jupiter 112229-05-07 11:30 G 42711986.88 42711986.98 42711987.09 0.0526 0.0309

Jupiter 112229-08-04 18:56 G 42712076.19 42712076.29 42712076.39 0.0523 0.0344

Saturn 112229-09-09 09:34 G 42712111.80 42712111.90 42712112.00 0.0267 0.0225

Saturn 112229-12-07 05:15 G 42712200.54 42712200.72 42712200.91 0.0267 0.0045

Saturn 112230-03-06 01:25 G 42712289.40 42712289.56 42712289.72 0.0267 0.0138

Moon 112231-07-10 12:27 G 42712780.95 42712781.02 42712781.10 0.2654 0.1872

Earth 112231-07-10 13:10 G 42712780.98 42712781.05 42712781.12 0.2656 0.2046 *

Mars 112232-06-29 08:08 G 42713135.74 42713135.84 42713135.94 0.1787 0.0863

Jupiter 112235-09-17 21:20 G 42714311.22 42714311.39 42714311.56 0.0502 0.0164

Earth 112238-07-03 13:10 G 42715331.03 42715331.05 42715331.07 0.2661 0.2584

Moon 112238-07-03 13:39 G 42715331.04 42715331.07 42715331.11 0.2657 0.2497 *

Jupiter 112241-02-23 15:34 G 42716297.09 42716297.15 42716297.21 0.0527 0.0470

Jupiter 112241-05-23 23:15 G 42716386.35 42716386.47 42716386.59 0.0524 0.0192

Mars 112241-11-19 17:44 G 42716566.13 42716566.24 42716566.36 0.1796 0.0061

Mars 112242-12-18 07:39 G 42716959.66 42716959.82 42716959.98 0.1750 0.0579

Saturn 112244-10-05 16:46 G 42717617.10 42717617.20 42717617.30 0.0292 0.0193

Saturn 112245-01-02 05:30 G 42717705.60 42717705.73 42717705.86 0.0293 0.0019

Saturn 112245-03-31 17:58 G 42717794.14 42717794.25 42717794.37 0.0293 0.0154

Jupiter 112247-07-06 19:54 G 42718621.21 42718621.33 42718621.46 0.0502 0.0355

Jupiter 112247-10-05 02:22 G 42718711.53 42718711.60 42718711.68 0.0505 0.0457

Mars 112251-04-12 03:34 G 42719996.55 42719996.65 42719996.75 0.1805 0.0861

Moon 112251-07-06 06:42 G 42720081.67 42720081.78 42720081.88 0.2652 0.0914

Earth 112251-07-06 06:56 G 42720081.68 42720081.79 42720081.89 0.2659 0.0909 *

Mars 112252-05-09 05:15 G 42720389.58 42720389.72 42720389.87 0.1741 0.0878

Jupiter 112253-03-12 03:20 G 42720696.51 42720696.64 42720696.77 0.0524 0.0037

Uranus 112253-10-09 04:32 G 42720907.62 42720907.69 42720907.77 0.0139 0.0125

Uranus 112254-01-05 11:15 G 42720995.86 42720995.97 42720996.11 0.0139 0.0100

Earth 112254-01-09 09:20 G 42720999.73 42720999.89 42721000.05 0.2675 0.0217

Moon 112254-01-09 09:49 G 42720999.75 42720999.91 42721000.07 0.2668 0.0395 *

Uranus 112254-04-03 18:27 G 42721084.12 42721084.27 42721084.43 0.0139 0.0074

Uranus 112254-07-01 01:39 G 42721172.39 42721172.57 42721172.74 0.0138 0.0048

Uranus 112254-09-27 08:37 G 42721260.68 42721260.86 42721261.04 0.0138 0.0022

Uranus 112254-12-24 15:34 G 42721348.97 42721349.15 42721349.34 0.0138 0.0005

Uranus 112255-03-22 22:46 G 42721437.27 42721437.45 42721437.63 0.0138 0.0030

Uranus 112255-06-19 05:58 G 42721525.58 42721525.75 42721525.92 0.0138 0.0057

Uranus 112255-09-15 12:56 G 42721613.90 42721614.04 42721614.20 0.0138 0.0083

Uranus 112255-12-12 20:08 G 42721702.23 42721702.34 42721702.46 0.0138 0.0109

Uranus 112256-03-10 03:06 G 42721790.62 42721790.63 42721790.68 0.0138 0.0136

Saturn 112259-04-26 02:22 G 42722932.44 42722932.60 42722932.77 0.0267 0.0117

Saturn 112259-07-23 22:18 G 42723021.26 42723021.43 42723021.62 0.0267 0.0065

Jupiter 112259-07-24 00:42 G 42723021.39 42723021.53 42723021.69 0.0504 0.0261 *

Saturn 112259-10-20 18:27 G 42723110.22 42723110.27 42723110.35 0.0267 0.0248

Venus 112260-05-31 17:58 G 42723334.22 42723334.25 42723334.29 0.3694 0.3452

Mars 112260-09-01 12:56 G 42723427.02 42723427.04 42723427.07 0.1814 0.1761

Pluto 112261-08-23 09:20 G 42723782.89 42723782.89 42723782.92 0.0085 0.0084

Pluto 112261-11-19 10:32 G 42723870.87 42723870.94 42723871.04 0.0085 0.0066

Pluto 112262-02-15 12:13 G 42723958.90 42723959.01 42723959.11 0.0085 0.0047

Pluto 112262-05-14 13:25 G 42724046.93 42724047.06 42724047.18 0.0085 0.0029

Pluto 112262-08-10 14:22 G 42724134.97 42724135.10 42724135.24 0.0085 0.0011

Pluto 112262-11-06 15:34 G 42724223.02 42724223.15 42724223.29 0.0084 0.0008

Pluto 112263-02-02 16:46 G 42724311.08 42724311.20 42724311.33 0.0084 0.0025

Pluto 112263-05-01 17:44 G 42724399.14 42724399.24 42724399.37 0.0084 0.0043

Pluto 112263-07-28 19:10 G 42724487.21 42724487.30 42724487.39 0.0084 0.0060

Pluto 112263-10-24 20:08 G 42724575.30 42724575.34 42724575.40 0.0084 0.0078

Moon 112264-07-07 23:44 G 42724832.38 42724832.49 42724832.60 0.2656 0.0609

Earth 112264-07-08 00:27 G 42724832.41 42724832.52 42724832.62 0.2657 0.0753 *

Jupiter 112264-12-29 06:42 G 42725006.65 42725006.78 42725006.91 0.0525 0.0136

Jupiter 112265-03-28 13:39 G 42725096.04 42725096.07 42725096.10 0.0522 0.0506

Venus 112265-12-15 10:32 G 42725357.84 42725357.94 42725358.03 0.3691 0.1684

Jupiter 112271-05-11 23:01 G 42727331.28 42727331.46 42727331.64 0.0503 0.0060

Venus 112271-07-01 02:51 G 42727381.51 42727381.62 42727381.72 0.3687 0.0136

Mars 112271-12-29 08:08 G 42727562.74 42727562.84 42727562.93 0.1788 0.0966

Saturn 112274-02-22 18:13 G 42728349.20 42728349.26 42728349.33 0.0293 0.0250

Neptune 112274-04-01 02:51 G 42728386.57 42728386.62 42728386.71 0.0089 0.0082

Saturn 112274-05-22 06:56 G 42728437.66 42728437.79 42728437.92 0.0293 0.0076

Neptune 112274-06-28 06:27 G 42728474.67 42728474.77 42728474.88 0.0089 0.0073

Saturn 112274-08-18 19:39 G 42728526.19 42728526.32 42728526.44 0.0293 0.0098

Neptune 112274-09-24 09:34 G 42728562.78 42728562.90 42728563.05 0.0089 0.0063

Saturn 112274-11-15 08:08 G 42728614.79 42728614.84 42728614.89 0.0293 0.0270

Neptune 112274-12-21 13:10 G 42728650.91 42728651.05 42728651.20 0.0089 0.0054

Neptune 112275-03-19 16:18 G 42728739.03   42728739.18   42728739.36 0.0089 0.0044

Neptune 112275-06-15 19:54 G 42728827.16   42728827.33   42728827.51 0.0089 0.0034

Neptune 112275-09-11 23:30 G 42728915.30   42728915.48   42728915.66 0.0089 0.0025

Neptune 112275-12-09 02:37 G 42729003.43   42729003.61   42729003.80 0.0089 0.0015

Neptune 112276-03-06 06:13 G 42729091.57   42729091.76   42729091.95 0.0089 0.0005

Neptune 112276-06-02 09:34 G 42729179.71   42729179.90   42729180.09 0.0089 0.0004

Neptune 112276-08-29 12:56 G 42729267.86   42729268.04   42729268.23 0.0089 0.0014

Jupiter 112276-10-17 10:32 G 42729316.83   42729316.94   42729317.04 0.0526 0.0301

Neptune 112276-11-25 16:32 G 42729356.01   42729356.19   42729356.37 0.0089 0.0024

Venus   112277-01-13 18:56 G 42729405.20   42729405.29   42729405.38 0.3684 0.1726

Jupiter 112277-01-14 17:44 G 42729406.15   42729406.24   42729406.34 0.0523 0.0351

Neptune 112277-02-21 19:54 G 42729444.16   42729444.33   42729444.51 0.0089 0.0034

Neptune 112277-05-20 23:15 G 42729532.31   42729532.47   42729532.64 0.0089 0.0044

Moon   112277-07-10 17:30 G 42729583.18   42729583.23   42729583.28 0.2660 0.2350

Earth   112277-07-10 17:58 G 42729583.21   42729583.25   42729583.30 0.2656 0.2384 *

Neptune 112277-08-17 02:37 G 42729620.47   42729620.61   42729620.77 0.0089 0.0053

Neptune 112277-11-13 05:58 G 42729708.63   42729708.75   42729708.90 0.0089 0.0063

Neptune 112278-02-09 09:20 G 42729796.80   42729796.89   42729797.02 0.0089 0.0074

Neptune 112278-05-08 13:10 G 42729884.99   42729885.05   42729885.13 0.0089 0.0083

Venus   112278-07-31 18:27 G 42729969.12   42729969.27   42729969.42 0.3688 0.0151

Mars   112281-05-20 17:58 G 42730993.13   42730993.25   42730993.36 0.1796 0.0136

Mars   112282-06-18 08:22 G 42731386.70   42731386.85   42731387.01 0.1750 0.0754

Venus   112282-07-30 11:01 G 42731428.92   42731428.96   42731429.00 0.3680 0.3365

Jupiter 112283-02-27 20:08 G 42731641.17   42731641.34   42731641.51 0.0502 0.0155

Moon   112284-07-03 17:44 G 42732133.19   42732133.24   42732133.29 0.2655 0.2334

Earth   112284-07-03 17:58 G 42732133.19   42732133.25   42732133.31 0.2661 0.2230 *

Moon   112287-01-07 09:34 G 42733050.85   42733050.90   42733050.94 0.2666 0.2550

Earth   112287-01-07 09:06 G 42733050.86   42733050.88   42733050.91 0.2673 0.2623 *

Jupiter 112288-08-05 14:08 G 42733627.04   42733627.09   42733627.15 0.0527 0.0468

Saturn   112288-09-12 03:06 G 42733664.49   42733664.63   42733664.78 0.0268 0.0159

Jupiter 112288-11-02 22:03 G 42733716.30 42733716.42 42733716.54 0.0524 0.0196

Saturn 112288-12-09 23:01 G 42733753.28 42733753.46 42733753.65 0.0267 0.0024

Saturn 112289-03-08 19:10 G 42733842.19 42733842.30 42733842.42 0.0267 0.0206

Mars 112290-10-11 03:34 G 42734423.54 42734423.65 42734423.75 0.1804 0.0753

Mars 112291-11-08 05:58 G 42734816.60 42734816.75 42734816.90 0.1741 0.0716

Jupiter 112294-12-16 18:27 G 42735951.15 42735951.27 42735951.40 0.0501 0.0348

Jupiter 112295-03-17 00:56 G 42736041.47 42736041.54 42736041.61 0.0505 0.0462

Uranus 112296-10-13 04:03 G 42736617.62 42736617.67 42736617.73 0.0139 0.0126

Uranus 112297-01-09 07:39 G 42736705.74 42736705.82 42736705.91 0.0139 0.0107

Uranus 112297-04-07 11:30 G 42736793.87 42736793.98 42736794.08 0.0139 0.0087

Uranus 112297-07-04 15:06 G 42736882.01 42736882.13 42736882.25 0.0139 0.0067

Moon 112297-07-06 11:01 G 42736883.85 42736883.96 42736884.06 0.2657 0.0622

Earth 112297-07-06 11:44 G 42736883.88 42736883.99 42736884.09 0.2659 0.0560 *

Uranus 112297-09-30 18:42 G 42736970.15 42736970.28 42736970.41 0.0139 0.0047

Uranus 112297-12-27 22:18 G 42737058.30 42737058.43 42737058.57 0.0140 0.0027

Uranus 112298-03-26 01:54 G 42737146.45 42737146.58 42737146.72 0.0140 0.0008

Uranus 112298-06-22 05:30 G 42737234.60 42737234.73 42737234.87 0.0140 0.0013

Uranus 112298-09-18 09:06 G 42737322.75 42737322.88 42737323.02 0.0140 0.0032

Uranus 112298-12-15 12:42 G 42737410.91 42737411.03 42737411.16 0.0140 0.0052

Uranus 112299-03-13 16:18 G 42737499.07 42737499.18 42737499.30 0.0140 0.0071

Uranus 112299-06-09 19:39 G 42737587.23 42737587.32 42737587.43 0.0140 0.0091

Uranus 112299-09-05 23:15 G 42737675.40 42737675.47 42737675.56 0.0140 0.0110

Uranus 112299-12-03 02:51 G 42737763.58 42737763.62 42737763.68 0.0140 0.0129

Moon 112300-01-10 14:37 G 42737801.96 42737802.11 42737802.27 0.2670 0.0674

Earth 112300-01-10 16:03 G 42737802.02 42737802.17 42737802.32 0.2675 0.0934 *

Mars 112300-03-03 12:56 G 42737854.00 42737854.04 42737854.09 0.1813 0.1652

Jupiter 112300-08-23 02:08 G 42738026.46 42738026.59 42738026.72 0.0525 0.0042

Saturn 112303-10-10 08:08 G 42739169.72 42739169.84 42739169.95 0.0292 0.0137

Saturn 112304-01-06 20:37 G 42739258.23 42739258.36 42739258.49 0.0292 0.0037

Saturn 112304-04-04 09:06 G 42739346.79 42739346.88 42739346.98 0.0293 0.0209

Jupiter 112307-01-03 23:01 G 42740351.31 42740351.46 42740351.62 0.0504 0.0262

Moon 112310-07-10 04:46 G 42741634.60 42741634.70 42741634.81 0.2663 0.0994

Earth 112310-07-10 05:15 G 42741634.62 42741634.72 42741634.82 0.2657 0.1102 *

Mars 112311-06-30 08:08 G 42741989.74 42741989.84 42741989.93 0.1787 0.1071

Jupiter 112312-06-11 06:13 G 42742336.63 42742336.76 42742336.89 0.0525 0.0118

Venus 112317-01-06 15:49 G 42744007.09 42744007.16 42744007.22 0.3694 0.2864

Saturn 112318-01-31 00:13 G 42744396.42 42744396.51 42744396.60 0.0267 0.0232

Saturn 112318-04-29 20:08 G 42744485.16 42744485.34 42744485.52 0.0267 0.0051

Saturn 112318-07-27 16:03 G 42744574.02 42744574.17 42744574.33 0.0267 0.0131

Jupiter 112318-10-22 21:34 G 42744661.22 42744661.40 42744661.58 0.0503 0.0067

Mars 112320-11-19 17:44 G 42745420.13 42745420.24 42745420.36 0.1796 0.0222

Mars 112321-12-18 09:20 G 42745813.75 42745813.89 42745814.03 0.1751 0.0937

Venus 112322-07-23 08:08 G 42746030.74 42746030.84 42746030.94 0.3690 0.1107

Jupiter 112324-03-30 09:34 G 42746646.79 42746646.90 42746647.01 0.0526 0.0289

Jupiter 112324-06-27 16:46 G 42746736.11 42746736.20 42746736.30 0.0523 0.0363

Venus 112328-02-06 00:27 G 42748054.42 42748054.52 42748054.62 0.3687 0.0606

Venus 112329-08-22 13:39 G 42748617.98 42748618.07 42748618.16 0.3684 0.2890

Mars 112330-04-12 03:34 G 42748850.54 42748850.65 42748850.75 0.1805 0.0651

Moon 112330-07-05 22:03 G 42748935.35 42748935.42 42748935.49 0.2660 0.1970

Earth 112330-07-05 22:46 G 42748935.37 42748935.45 42748935.53 0.2660 0.1874 *

Jupiter 112330-08-10 19:54 G 42748971.16 42748971.33 42748971.50 0.0503 0.0129

Mars 112331-05-10 06:56 G 42749243.63 42749243.79 42749243.95 0.1742 0.0522

Moon 112333-01-08 14:08 G 42749852.99 42749853.09 42749853.19 0.2671 0.2066

Earth 112333-01-08 15:49 G 42749853.05 42749853.16 42749853.26 0.2673 0.1934 *

Saturn 112333-02-26 09:34 G 42749901.80 42749901.90 42749902.00 0.0292 0.0194

Saturn 112333-05-25 22:18 G 42749990.29 42749990.43 42749990.56 0.0293 0.0022

Venus 112333-08-21 16:32 G 42750078.11 42750078.19 42750078.27 0.3683 0.2274

Saturn 112333-08-22 10:46 G 42750078.84 42750078.95 42750079.06 0.0293 0.0153

Venus 112335-03-08 19:54 G 42750642.20 42750642.33 42750642.47 0.3689 0.1563

Jupiter 112336-01-17 13:10 G 42750956.99 42750957.05 42750957.12 0.0527 0.0457

Jupiter 112336-04-15 20:51 G 42751046.25 42751046.37 42751046.49 0.0524 0.0204

Uranus 112337-10-30 11:15 G 42751608.89 42751608.97 42751609.07 0.0139 0.0120

Uranus 112338-01-26 18:13 G 42751697.14 42751697.26 42751697.40 0.0139 0.0094

Uranus 112338-04-25 01:25 G 42751785.40 42751785.56 42751785.72 0.0139 0.0068

Uranus 112338-07-22 08:22 G 42751873.68 42751873.85 42751874.03 0.0138 0.0042

Uranus 112338-10-18 15:20 G 42751961.96 42751962.14 42751962.33 0.0138 0.0017

Uranus 112339-01-14 22:32 G 42752050.25 42752050.44 42752050.62 0.0138 0.0010

Uranus 112339-04-13 05:30 G 42752138.56 42752138.73 42752138.91 0.0138 0.0036

Uranus 112339-07-10 12:42 G 42752226.87 42752227.03 42752227.20 0.0138 0.0062

Mars 112339-09-02 12:56 G 42752280.99 42752281.04 42752281.10 0.1813 0.1542

Uranus 112339-10-06 19:54 G 42752315.19 42752315.33 42752315.47 0.0138 0.0089

Uranus 112340-01-03 02:51 G 42752403.53 42752403.62 42752403.73 0.0138 0.0115

Jupiter 112342-05-29 17:15 G 42753281.09 42753281.22 42753281.35 0.0501 0.0337

Jupiter 112342-08-27 23:44 G 42753371.43 42753371.49 42753371.55 0.0504 0.0472

Moon 112343-07-08 16:18 G 42753686.07 42753686.18 42753686.28 0.2665 0.0299

Earth 112343-07-08 16:32 G 42753686.08 42753686.19 42753686.30 0.2658 0.0231 *

Moon 112346-01-11 21:06 G 42754604.25 42754604.38 42754604.52 0.2678 0.1322

Earth 112346-01-11 22:32 G 42754604.32 42754604.44 42754604.57 0.2675 0.1635 *

Saturn 112347-09-16 20:37 G 42755217.19 42755217.36 42755217.53 0.0268 0.0093

Saturn 112347-12-14 16:46 G 42755306.03 42755306.20 42755306.37 0.0268 0.0090

Jupiter 112348-02-03 00:42 G 42755356.40 42755356.53 42755356.66 0.0525 0.0046

Mars 112350-12-29 08:08 G 42756416.75 42756416.84 42756416.92 0.1787 0.1177

Jupiter 112354-06-15 21:34 G 42757681.25 42757681.40 42757681.55 0.0504 0.0268

Neptune 112354-08-04 13:54 G 42757731.07 42757731.08 42757731.10 0.0088 0.0087

Neptune 112354-10-31 15:06 G 42757819.09 42757819.13 42757819.20 0.0088 0.0081

Neptune 112355-01-27 16:32 G 42757907.13 42757907.19 42757907.28 0.0088 0.0074

Neptune 112355-04-25 17:58 G 42757995.18 42757995.25 42757995.35 0.0088 0.0068

Neptune 112355-07-22 19:39 G 42758083.23 42758083.32 42758083.42 0.0088 0.0060

Neptune 112355-10-18 21:06 G 42758171.28 42758171.38 42758171.49 0.0088 0.0053

Neptune 112356-01-14 22:32 G 42758259.33 42758259.44 42758259.56 0.0088 0.0047

Neptune 112356-04-11 23:44 G 42758347.38 42758347.49 42758347.62 0.0088 0.0040

Neptune 112356-07-09 01:25 G 42758435.43 42758435.56 42758435.69 0.0088 0.0033

Earth 112356-07-10 10:03 G 42758436.83 42758436.92 42758437.01 0.2657 0.1441

Moon 112356-07-10 10:18 G 42758436.85 42758436.93 42758437.02 0.2662 0.1566 *

Neptune 112356-10-05 02:51 G 42758523.49 42758523.62 42758523.75 0.0088 0.0026

Neptune 112357-01-01 04:18 G 42758611.54 42758611.68 42758611.81 0.0088 0.0019

Neptune 112357-03-30 05:30 G 42758699.60 42758699.73 42758699.87 0.0088 0.0013

Neptune 112357-06-26 06:56 G 42758787.66 42758787.79 42758787.93 0.0088 0.0006

Neptune 112357-09-22 08:22 G 42758875.72 42758875.85 42758875.99 0.0088 0.0001

Neptune 112357-12-19 09:49 G 42758963.77 42758963.91 42758964.04 0.0088 0.0007

Neptune 112358-03-17 11:15 G 42759051.83 42759051.97 42759052.10 0.0088 0.0014

Neptune 112358-06-13 12:27 G 42759139.89 42759140.02 42759140.16 0.0088 0.0021

Neptune 112358-09-09 13:39 G 42759227.95 42759228.07 42759228.21 0.0088 0.0028

Neptune 112358-12-06 15:20 G 42759316.01 42759316.14 42759316.26 0.0088 0.0034

Neptune 112359-03-04 16:32 G 42759404.08 42759404.19 42759404.31 0.0088 0.0041

Neptune 112359-05-31 17:58 G 42759492.14 42759492.25 42759492.36 0.0088 0.0047

Neptune 112359-08-27 19:10 G 42759580.20 42759580.30 42759580.41 0.0088 0.0054

Jupiter 112359-11-22 05:01 G 42759666.58 42759666.71 42759666.83 0.0526 0.0115

Neptune 112359-11-23 20:22 G 42759668.27 42759668.35 42759668.46 0.0088 0.0061

Neptune 112360-02-19 22:03 G 42759756.33 42759756.42 42759756.51 0.0088 0.0067

Neptune 112360-05-17 23:01 G 42759844.40 42759844.46 42759844.55 0.0088 0.0074

Mars 112360-05-20 17:44 G 42759847.13 42759847.24 42759847.35 0.1796 0.0324

Neptune 112360-08-14 00:42 G 42759932.48 42759932.53 42759932.58 0.0088 0.0080

Neptune 112360-11-10 01:54 G 42760020.57 42760020.58 42760020.61 0.0088 0.0087

Mars 112361-06-18 10:18 G 42760240.80 42760240.93 42760241.05 0.1751 0.1123

Saturn 112362-07-16 10:46 G 42760633.89 42760633.95 42760634.02 0.0292 0.0249

Saturn 112362-10-12 23:30 G 42760722.36 42760722.48 42760722.61 0.0292 0.0076

Saturn 112363-01-09 12:13 G 42760810.88 42760811.01 42760811.14 0.0292 0.0097

Saturn 112363-04-08 00:42 G 42760899.48 42760899.53 42760899.58 0.0292 0.0268

Jupiter 112366-04-03 19:39 G 42761991.15 42761991.32 42761991.50 0.0503 0.0069

Mars 112369-10-11 03:34 G 42763277.54 42763277.65 42763277.76 0.1804 0.0542

Mars 112370-11-08 07:39 G 42763670.66 42763670.82 42763670.99 0.1742 0.0353

Jupiter 112371-09-10 08:51 G 42763976.76 42763976.87 42763976.98 0.0526 0.0274

Jupiter 112371-12-08 16:03 G 42764066.09 42764066.17 42764066.26 0.0523 0.0378

Venus 112373-08-13 13:25 G 42764679.98 42764680.06 42764680.14 0.3693 0.2277

Moon 112376-07-06 03:20 G 42765737.55 42765737.64 42765737.73 0.2666 0.1522

Earth 112376-07-06 03:34 G 42765737.56 42765737.65 42765737.74 0.2660 0.1523 *

Saturn 112377-02-02 17:44 G 42765949.10 42765949.24 42765949.39 0.0268 0.0165

Saturn 112377-05-02 13:54 G 42766037.89 42766038.08 42766038.26 0.0267 0.0017

Saturn 112377-07-30 10:03 G 42766126.80 42766126.92 42766127.04 0.0267 0.0200

Jupiter 112378-01-20 18:13 G 42766301.09 42766301.26 42766301.44 0.0503 0.0124

Moon 112379-01-09 21:06 G 42766655.25 42766655.38 42766655.51 0.2678 0.1505

Earth 112379-01-09 22:18 G 42766655.30 42766655.43 42766655.57 0.2673 0.1244 *

Venus 112379-02-27 05:44 G 42766703.64 42766703.74 42766703.85 0.3689 0.0549

Mars 112379-03-03 12:56 G 42766707.97 42766708.04 42766708.11 0.1813 0.1445

Uranus 112380-11-03 11:01 G 42767318.90 42767318.96 42767319.03 0.0139 0.0122

Uranus 112381-01-30 14:37 G 42767407.03 42767407.11 42767407.22 0.0139 0.0103

Uranus 112381-04-28 18:27 G 42767495.17 42767495.27 42767495.39 0.0139 0.0082

Uranus 112381-07-25 22:03 G 42767583.31 42767583.42 42767583.55 0.0139 0.0063

Uranus 112381-10-22 01:54 G 42767671.45 42767671.58 42767671.71 0.0139 0.0042

Uranus 112382-01-18 05:30 G 42767759.60 42767759.73 42767759.87 0.0140 0.0023

Uranus 112382-04-16 09:06 G 42767847.75 42767847.88 42767848.02 0.0140 0.0004

Uranus 112382-07-13 12:42 G 42767935.90 42767936.03 42767936.17 0.0140 0.0017

Uranus 112382-10-09 16:18 G 42768024.05 42768024.18 42768024.31 0.0140 0.0036

Uranus 112383-01-05 19:54 G 42768112.21 42768112.33 42768112.46 0.0140 0.0056

Uranus 112383-04-03 23:15 G 42768200.37 42768200.47 42768200.59 0.0140 0.0076

Jupiter 112383-06-29 12:13 G 42768286.94 42768287.01 42768287.08 0.0527 0.0447

Uranus 112383-07-01 03:06 G 42768288.53 42768288.63 42768288.73 0.0140 0.0095

Jupiter 112383-09-26 19:54 G 42768376.21 42768376.33 42768376.45 0.0523 0.0214

Uranus 112383-09-27 06:27 G 42768376.70 42768376.77 42768376.85 0.0140 0.0115

Uranus 112383-12-24 10:03 G 42768464.89 42768464.92 42768464.96 0.0140 0.0134

Venus 112384-09-11 22:03 G 42768727.32 42768727.42 42768727.52 0.3686 0.1159

Venus 112386-03-29 14:51 G 42769290.99 42769291.12 42769291.26 0.3685 0.1546

Earth 112389-07-08 21:20 G 42770488.28 42770488.39 42770488.50 0.2658 0.0179

Moon 112389-07-08 21:49 G 42770488.30 42770488.41 42770488.52 0.2663 0.0204 *

Jupiter 112389-11-08 16:46 G 42770611.07 42770611.20 42770611.34 0.0502 0.0316

Jupiter 112390-02-06 23:15 G 42770701.44 42770701.47 42770701.50 0.0505 0.0496

Venus 112390-03-28 14:08 G 42770751.02 42770751.09 42770751.16 0.3682 0.2802

Mars 112390-06-29 07:54 G 42770843.75 42770843.83 42770843.91 0.1787 0.1276

Venus 112391-10-13 21:20 G 42771315.30 42771315.39 42771315.48 0.3690 0.2969

Earth 112392-01-13 05:15 G 42771406.65 42771406.72 42771406.79 0.2675 0.2340

Moon 112392-01-13 05:44 G 42771406.69 42771406.74 42771406.79 0.2682 0.2494 *

Saturn 112392-03-01 00:56 G 42771454.42 42771454.54 42771454.66 0.0292 0.0133

Saturn 112392-05-28 13:39 G 42771542.94 42771543.07 42771543.20 0.0293 0.0040

Saturn 112392-08-25 02:08 G 42771631.50 42771631.59 42771631.68 0.0293 0.0212

Jupiter 112395-07-15 23:44 G 42772686.36 42772686.49 42772686.62 0.0525 0.0052

Mars 112399-11-19 17:44 G 42774274.13 42774274.24 42774274.36 0.1795 0.0445

Mars 112400-12-17 10:46 G 42774667.84 42774667.95 42774668.07 0.1751 0.1297

Jupiter 112401-11-25 20:22 G 42775011.20 42775011.35 42775011.50 0.0503 0.0277

Earth 112402-07-11 14:51 G 42775239.04 42775239.12 42775239.20 0.2657 0.1787

Moon 112402-07-11 15:20 G 42775239.07 42775239.14 42775239.22 0.2654 0.1933 *

Saturn 112406-06-22 18:27 G 42776681.16 42776681.27 42776681.39 0.0268 0.0206

Saturn 112406-09-19 14:22 G 42776769.92 42776770.10 42776770.29 0.0268 0.0025

Saturn 112406-12-17 10:32 G 42776858.80 42776858.94 42776859.09 0.0268 0.0160

Jupiter 112407-05-04 03:20 G 42776996.52 42776996.64 42776996.77 0.0526 0.0116

Mars 112409-04-11 03:20 G 42777704.53 42777704.64 42777704.75 0.1804 0.0443

Mars 112410-05-09 08:22 G 42778097.68 42778097.85 42778098.02 0.1742 0.0183

Pluto 112411-10-26 15:49 G 42778633.09 42778633.16 42778633.27 0.0060 0.0053

Pluto 112412-01-22 17:01 G 42778721.10 42778721.21 42778721.37 0.0060 0.0044

Pluto 112412-04-19 18:56 G 42778809.13 42778809.29 42778809.45 0.0060 0.0034

Pluto 112412-07-16 20:08 G 42778897.17 42778897.34 42778897.53 0.0060 0.0025

Pluto 112412-10-12 21:20 G 42778985.22 42778985.39 42778985.60 0.0060 0.0016

Pluto 112413-01-08 23:01 G 42779073.27 42779073.46 42779073.66 0.0060 0.0006

Pluto 112413-04-07 00:27 G 42779161.33 42779161.52 42779161.72 0.0060 0.0004

Pluto 112413-07-04 01:54 G 42779249.39 42779249.58 42779249.78 0.0060 0.0013

Jupiter 112413-09-13 18:13 G 42779321.09 42779321.26 42779321.44 0.0503 0.0076

Pluto 112413-09-30 03:06 G 42779337.46 42779337.63 42779337.82 0.0060 0.0023

Pluto 112413-12-27 04:32 G 42779425.53 42779425.69 42779425.87 0.0060 0.0032

Pluto 112414-03-25 05:44 G 42779513.62 42779513.74 42779513.90 0.0060 0.0042

Pluto 112414-06-21 07:25 G 42779601.72 42779601.81 42779601.92 0.0060 0.0052

Mars 112418-09-01 12:56 G 42781134.96 42781135.04 42781135.12 0.1813 0.1332

Jupiter 112419-02-20 07:25 G 42781306.70 42781306.81 42781306.92 0.0527 0.0275

Jupiter 112419-05-20 14:51 G 42781396.03 42781396.12 42781396.21 0.0523 0.0379

Mars 112419-09-29 06:27 G 42781527.71 42781527.77 42781527.84 0.1733 0.1588

Saturn 112421-07-19 02:51 G 42782186.52 42782186.62 42782186.73 0.0292 0.0181

Uranus 112421-08-23 11:30 G 42782221.98 42782221.98 42782222.01 0.0139 0.0139

Saturn 112421-10-15 15:34 G 42782275.02 42782275.15 42782275.28 0.0292 0.0009

Uranus 112421-11-19 18:27 G 42782310.18 42782310.27 42782310.39 0.0139 0.0113

Saturn 112422-01-12 04:03 G 42782363.56 42782363.67 42782363.78 0.0292 0.0163

Uranus 112422-02-16 01:25 G 42782398.43 42782398.56 42782398.71 0.0139 0.0087

Uranus 112422-05-15 08:22 G 42782486.69 42782486.85 42782487.02 0.0138 0.0062

Earth 112422-07-07 08:22 G 42782539.75 42782539.85 42782539.95 0.2659 0.1170

Moon 112422-07-07 09:06 G 42782539.78 42782539.88 42782539.98 0.2663 0.1106 *

Uranus 112422-08-11 15:34 G 42782574.97 42782575.15 42782575.33 0.0138 0.0036

Uranus 112422-11-07 22:32 G 42782663.26 42782663.44 42782663.63 0.0138 0.0010

Uranus 112423-02-04 05:44 G 42782751.55 42782751.74 42782751.92 0.0138 0.0016

Uranus 112423-05-03 12:42 G 42782839.86 42782840.03 42782840.21 0.0138 0.0042

Uranus 112423-07-30 19:39 G 42782928.17 42782928.32 42782928.49 0.0138 0.0069

Uranus 112423-10-27 02:51 G 42783016.49 42783016.62 42783016.76 0.0138 0.0095

Uranus 112424-01-23 10:03 G 42783104.84 42783104.92 42783105.02 0.0138 0.0121

Venus 112424-09-03 18:42 G 42783329.24 42783329.28 42783329.31 0.3695 0.3472

Earth 112425-01-10 05:01 G 42783457.55 42783457.71 42783457.86 0.2674 0.0563

Moon 112425-01-10 05:44 G 42783457.59 42783457.74 42783457.89 0.2679 0.0532 *

Jupiter 112425-07-02 16:32 G 42783631.01 42783631.19 42783631.36 0.0502 0.0125

Mars 112429-12-28 07:54 G 42785270.76 42785270.83 42785270.90 0.1787 0.1385

Venus 112430-03-20 11:01 G 42785352.87 42785352.96 42785353.06 0.3692 0.1711

Jupiter 112430-12-09 11:15 G 42785616.90 42785616.97 42785617.05 0.0527 0.0437

Jupiter 112431-03-08 18:56 G 42785706.18 42785706.29 42785706.41 0.0524 0.0226

Earth 112435-07-10 02:08 G 42787290.48 42787290.59 42787290.69 0.2658 0.0499

Moon 112435-07-10 02:37 G 42787290.50 42787290.61 42787290.72 0.2655 0.0650 *

Venus 112435-10-04 03:20 G 42787376.54 42787376.64 42787376.75 0.3688 0.0164

Saturn 112436-02-06 11:58 G 42787501.83 42787502.00 42787502.17 0.0268 0.0094

Saturn 112436-05-05 07:54 G 42787590.66 42787590.83 42787591.01 0.0268 0.0089

Jupiter 112437-04-20 15:06 G 42787940.99 42787941.13 42787941.27 0.0502 0.0313

Jupiter 112437-07-19 21:20 G 42788031.37 42788031.39 42788031.43 0.0505 0.0498

Neptune 112438-09-30 22:32 G 42788469.41 42788469.44 42788469.50 0.0089 0.0086

Neptune 112438-12-28 01:39 G 42788557.50 42788557.57 42788557.68 0.0089 0.0077

Neptune 112439-03-26 05:15 G 42788645.61 42788645.72 42788645.85 0.0089 0.0067

Mars 112439-05-20 17:44 G 42788701.13 42788701.24 42788701.35 0.1795 0.0533

Neptune 112439-06-22 08:22 G 42788733.73 42788733.85 42788734.01 0.0089 0.0058

Neptune 112439-09-18 11:58 G 42788821.85 42788822.00 42788822.17 0.0089 0.0048

Neptune 112439-12-15 15:34 G 42788909.98 42788910.15 42788910.32 0.0089 0.0039

Neptune 112440-03-12 18:42 G 42788998.11 42788998.28 42788998.47 0.0089 0.0029

Neptune 112440-06-08 22:18 G 42789086.25 42789086.43 42789086.61 0.0089 0.0019

Mars 112440-06-17 11:44 G 42789094.90 42789094.99 42789095.08 0.1751 0.1478

Neptune 112440-09-05 01:39 G 42789174.39 42789174.57 42789174.76 0.0089 0.0010

Neptune 112440-12-02 05:01 G 42789262.53 42789262.71 42789262.90 0.0089 0.0002

Neptune 112441-02-28 08:37 G 42789350.67 42789350.86 42789351.04 0.0089 0.0010

Venus 112441-04-18 19:39 G 42789400.23 42789400.32 42789400.41 0.3685 0.1697

Neptune 112441-05-27 11:58 G 42789438.82 42789439.00 42789439.18 0.0089 0.0019

Neptune 112441-08-23 15:06 G 42789526.97 42789527.13 42789527.32 0.0089 0.0030

Neptune 112441-11-19 18:27 G 42789615.12 42789615.27 42789615.46 0.0089 0.0040

Neptune 112442-02-15 22:18 G 42789703.27 42789703.43 42789703.59 0.0089 0.0049

Neptune 112442-05-15 01:39 G 42789791.43 42789791.57 42789791.72 0.0089 0.0059

Neptune 112442-08-11 05:01 G 42789879.60 42789879.71 42789879.84 0.0089 0.0069

Venus 112442-11-03 16:18 G 42789964.03 42789964.18 42789964.32 0.3687 0.0210

Neptune 112442-11-07 08:22 G 42789967.78 42789967.85 42789967.96 0.0089 0.0079

Jupiter 112442-12-25 22:46 G 42790016.32 42790016.45 42790016.58 0.0524 0.0061

Neptune 112443-02-03 11:44 G 42790055.98 42790055.99 42790056.04 0.0089 0.0089

Venus 112446-11-02 11:44 G 42791423.95 42791423.99 42791424.03 0.3681 0.3339

Moon 112448-07-11 19:39 G 42792041.25 42792041.32 42792041.39 0.2649 0.2068

Earth 112448-07-11 19:39 G 42792041.26 42792041.32 42792041.38 0.2656 0.2133 *

Mars 112448-10-10 03:34 G 42792131.53 42792131.65 42792131.76 0.1804 0.0334

Jupiter 112449-05-07 19:25 G 42792341.17 42792341.31 42792341.46 0.0504 0.0295

Mars 112449-11-07 09:20 G 42792524.72 42792524.89 42792525.06 0.1742 0.0011

Saturn 112450-12-06 04:03 G 42792918.60 42792918.67 42792918.75 0.0292 0.0240

Saturn 112451-03-04 17:01 G 42793007.08 42793007.21 42793007.34 0.0292 0.0066

Saturn 112451-06-01 05:30 G 42793095.61 42793095.73 42793095.86 0.0292 0.0106

Saturn 112451-08-28 17:58 G 42793184.21 42793184.25 42793184.29 0.0293 0.0277

Jupiter 112454-10-14 02:22 G 42794326.47 42794326.60 42794326.73 0.0525 0.0106

Earth 112455-07-05 19:25 G 42794591.28 42794591.31 42794591.35 0.2661 0.2507

Moon 112455-07-05 20:08 G 42794591.29 42794591.34 42794591.39 0.2663 0.2348 *

Mars 112458-03-02 12:56 G 42795561.96 42795562.04 42795562.13 0.1812 0.1223

Mars 112459-03-30 07:10 G 42795954.71 42795954.80 42795954.89 0.1733 0.1428

Jupiter 112461-02-23 16:46 G 42796651.03 42796651.20 42796651.38 0.0503 0.0084

Uranus 112464-08-27 14:08 G 42797932.09 42797932.09 42797932.12 0.0139 0.0139

Uranus 112464-11-23 17:58 G 42798020.19 42798020.25 42798020.33 0.0139 0.0118

Uranus 112465-02-19 21:49 G 42798108.32 42798108.41 42798108.51 0.0139 0.0098

Uranus 112465-05-19 01:25 G 42798196.46 42798196.56 42798196.68 0.0139 0.0079

Saturn 112465-06-25 12:42 G 42798233.88 42798234.03 42798234.19 0.0268 0.0134

Uranus 112465-08-15 05:15 G 42798284.60 42798284.72 42798284.85 0.0139 0.0058

Saturn 112465-09-22 08:51 G 42798322.69 42798322.87 42798323.05 0.0268 0.0049

Uranus 112465-11-11 08:51 G 42798372.74 42798372.87 42798373.00 0.0140 0.0039

Saturn 112465-12-20 05:01 G 42798411.63 42798411.71 42798411.80 0.0268 0.0234

Uranus 112466-02-07 12:27 G 42798460.89 42798461.02 42798461.16 0.0140 0.0019

Uranus 112466-05-06 16:18 G 42798549.04 42798549.18 42798549.31 0.0140 0.0003

Jupiter 112466-08-02 05:44 G 42798636.63 42798636.74 42798636.85 0.0527 0.0279

Uranus 112466-08-02 19:54 G 42798637.19 42798637.33 42798637.46 0.0140 0.0021

Uranus 112466-10-29 23:15 G 42798725.35 42798725.47 42798725.61 0.0140 0.0041

Jupiter 112466-10-30 13:10 G 42798725.96 42798726.05 42798726.14 0.0524 0.0376

Uranus 112467-01-26 03:06 G 42798813.50 42798813.63 42798813.75 0.0140 0.0060

Uranus 112467-04-24 06:27 G 42798901.67 42798901.77 42798901.89 0.0140 0.0080

Uranus 112467-07-21 10:03 G 42798989.83 42798989.92 42798990.02 0.0140 0.0099

Uranus 112467-10-17 13:25 G 42799078.00 42799078.06 42799078.14 0.0140 0.0119

Uranus 112468-01-13 17:01 G 42799166.20 42799166.21 42799166.24 0.0140 0.0138

Earth 112468-07-07 13:10 G 42799341.95 42799342.05 42799342.16 0.2659 0.0820

Moon 112468-07-07 13:54 G 42799341.97 42799342.08 42799342.18 0.2656 0.0744 *

Mars 112469-06-28 07:54 G 42799697.77 42799697.83 42799697.89 0.1786 0.1487

Earth 112471-01-11 11:30 G 42800259.82 42800259.98 42800260.13 0.2674 0.0133

Moon 112471-01-11 13:10 G 42800259.90 42800260.05 42800260.20 0.2673 0.0480 *

Jupiter 112472-12-12 14:51 G 42800960.95 42800961.12 42800961.30 0.0502 0.0117

Jupiter 112478-05-21 09:34 G 42802946.83 42802946.90 42802946.97 0.0528 0.0442

Jupiter 112478-08-18 17:15 G 42803036.11 42803036.22 42803036.34 0.0524 0.0222

Mars 112478-11-18 17:44 G 42803128.13 42803128.24 42803128.34 0.1795 0.0643

Mars 112479-12-17 12:42 G 42803521.98 42803522.03 42803522.07 0.1752 0.1670

Saturn 112480-04-24 06:42 G 42803650.75 42803650.78 42803650.81 0.0291 0.0281

Saturn 112480-07-21 19:25 G 42803739.19 42803739.31 42803739.44 0.0291 0.0108

Saturn 112480-10-18 07:54 G 42803827.71 42803827.83 42803827.97 0.0292 0.0065

Saturn 112481-01-14 20:22 G 42803916.28 42803916.35 42803916.43 0.0292 0.0234

Venus 112481-04-10 16:18 G 42804002.12 42804002.18 42804002.24 0.3694 0.2894

Moon 112481-07-10 06:42 G 42804092.68 42804092.78 42804092.89 0.2651 0.0841

Earth 112481-07-10 06:56 G 42804092.68 42804092.79 42804092.89 0.2658 0.0845 *

Jupiter 112484-09-30 12:56 G 42805270.91 42805271.04 42805271.18 0.0501 0.0316

Jupiter 112484-12-29 19:25 G 42805361.27 42805361.31 42805361.34 0.0504 0.0493

Venus 112486-10-25 08:51 G 42806025.77 42806025.87 42806025.97 0.3691 0.1142

Mars 112488-04-10 03:20 G 42806558.53 42806558.64 42806558.76 0.1803 0.0231

Mars 112489-05-08 10:03 G 42806951.75 42806951.92 42806952.09 0.1742 0.0186

Jupiter 112490-06-06 21:34 G 42807346.27 42807346.40 42807346.53 0.0525 0.0066

Venus 112492-05-10 01:10 G 42808049.44 42808049.55 42808049.65 0.3687 0.0592

Venus 112493-11-24 11:30 G 42808612.91 42808612.98 42808613.05 0.3683 0.3187

Moon 112494-07-12 23:44 G 42808843.44 42808843.49 42808843.54 0.2654 0.2350

Earth 112494-07-13 00:27 G 42808843.48 42808843.52 42808843.56 0.2656 0.2478 *

Saturn 112494-11-12 10:32 G 42808965.83 42808965.94 42808966.07 0.0268 0.0200

Saturn 112495-02-09 06:42 G 42809054.60 42809054.78 42809054.96 0.0268 0.0018

Saturn 112495-05-09 02:51 G 42809143.47 42809143.62 42809143.76 0.0268 0.0166

Jupiter 112496-10-17 17:30 G 42809671.08 42809671.23 42809671.37 0.0504 0.0293

Mars 112497-08-31 12:56 G 42809988.95 42809989.04 42809989.13 0.1812 0.1126

Venus 112497-11-23 17:15 G 42810073.14 42810073.22 42810073.30 0.3684 0.2240

Mars 112498-09-28 07:54 G 42810381.72 42810381.83 42810381.95 0.1734 0.1248

Venus 112499-06-10 17:44 G 42810637.10 42810637.24 42810637.38 0.3688 0.1210

Earth 112501-07-07 00:13 G 42811393.45 42811393.51 42811393.58 0.2661 0.2151

Moon 112501-07-07 00:42 G 42811393.47 42811393.53 42811393.60 0.2655 0.2111 *

Jupiter 112502-03-27 01:10 G 42811656.42 42811656.55 42811656.67 0.0525 0.0103

Moon 112504-01-10 12:56 G 42812311.00 42812311.04 42812311.08 0.2669 0.2556

Uranus 112505-09-13 19:10 G 42812923.25 42812923.30 42812923.36 0.0139 0.0131

Uranus 112505-12-11 01:54 G 42813011.47 42813011.58 42813011.71 0.0139 0.0106

Uranus 112506-03-09 08:51 G 42813099.73 42813099.87 42813100.03 0.0138 0.0080

Uranus 112506-06-05 15:49 G 42813188.00 42813188.16 42813188.34 0.0138 0.0055

Uranus 112506-09-01 23:01 G 42813276.28 42813276.46 42813276.64 0.0138 0.0029

Uranus 112506-11-29 05:58 G 42813364.56 42813364.75 42813364.93 0.0138 0.0003

Uranus 112507-02-25 12:56 G 42813452.86 42813453.04 42813453.23 0.0138 0.0024

Uranus 112507-05-24 19:54 G 42813541.17 42813541.33 42813541.51 0.0138 0.0050

Pluto 112507-07-22 00:56 G 42813599.51 42813599.54 42813599.59 0.0085 0.0080

Uranus 112507-08-21 03:06 G 42813629.48 42813629.63 42813629.79 0.0138 0.0076

Pluto 112507-10-18 02:08 G 42813687.51 42813687.59 42813687.68 0.0085 0.0062

Uranus 112507-11-17 10:18 G 42813717.81 42813717.93 42813718.06 0.0138 0.0102

Pluto 112508-01-14 03:20 G 42813775.53 42813775.64 42813775.76 0.0085 0.0044

Uranus 112508-02-13 17:30 G 42813806.17 42813806.23 42813806.30 0.0138 0.0128

Pluto 112508-04-11 04:46 G 42813863.57 42813863.70 42813863.82 0.0085 0.0026

Pluto 112508-07-08 05:58 G 42813951.62 42813951.75 42813951.88 0.0084 0.0008

Jupiter 112508-08-06 15:34 G 42813980.98 42813981.15 42813981.33 0.0503 0.0094

Pluto 112508-10-04 07:10 G 42814039.67 42814039.80 42814039.93 0.0084 0.0010

Mars 112508-12-28 07:54 G 42814124.78 42814124.83 42814124.88 0.1786 0.1591

Pluto 112508-12-31 08:08 G 42814127.72 42814127.84 42814127.97 0.0084 0.0028

Pluto 112509-03-29 09:20 G 42814215.79 42814215.89 42814216.01 0.0084 0.0046

Pluto 112509-06-25 10:32 G 42814303.86 42814303.94 42814304.03 0.0084 0.0063

Pluto 112509-09-21 11:30 G 42814391.96 42814391.98 42814392.03 0.0084 0.0081

Saturn 112509-12-09 20:51 G 42814471.26 42814471.37 42814471.48 0.0292 0.0165

Saturn 112510-03-08 09:34 G 42814559.77 42814559.90 42814560.03 0.0292 0.0008

Saturn 112510-06-04 22:03 G 42814648.32 42814648.42 42814648.52 0.0292 0.0179

Jupiter 112514-01-13 04:32 G 42815966.58 42815966.69 42815966.81 0.0526 0.0271

Jupiter 112514-04-12 11:58 G 42816055.92 42816056.00 42816056.09 0.0523 0.0382

Moon 112514-07-09 17:44 G 42816144.13 42816144.24 42816144.35 0.2653 0.0465

Earth 112514-07-09 17:58 G 42816144.14 42816144.25 42816144.36 0.2659 0.0470 *

Earth 112517-01-12 17:58 G 42817062.10 42817062.25 42817062.40 0.2675 0.0822

Moon 112517-01-12 18:27 G 42817062.12 42817062.27 42817062.42 0.2668 0.0947 *

Mars 112518-05-20 17:44 G 42817555.14 42817555.24 42817555.34 0.1795 0.0752

Neptune 112519-05-02 13:54 G 42817902.04 42817902.08 42817902.12 0.0088 0.0084

Neptune 112519-07-29 15:06 G 42817990.07 42817990.13 42817990.20 0.0088 0.0077

Neptune 112519-10-25 16:32 G 42818078.12 42818078.19 42818078.28 0.0088 0.0070

Neptune 112520-01-21 17:58 G 42818166.16 42818166.25 42818166.35 0.0088 0.0063

Neptune 112520-04-18 19:25 G 42818254.21 42818254.31 42818254.42 0.0088 0.0056

Jupiter 112520-05-25 13:25 G 42818290.89 42818291.06 42818291.23 0.0502 0.0112

Neptune 112520-07-15 21:06 G 42818342.27 42818342.38 42818342.49 0.0088 0.0049

Neptune 112520-10-11 22:18 G 42818430.32 42818430.43 42818430.56 0.0088 0.0043

Neptune 112521-01-07 23:44 G 42818518.37 42818518.49 42818518.62 0.0088 0.0036

Neptune 112521-04-06 01:10 G 42818606.43 42818606.55 42818606.68 0.0088 0.0029

Neptune 112521-07-03 02:37 G 42818694.48 42818694.61 42818694.74 0.0088 0.0023

Neptune 112521-09-29 04:03 G 42818782.54 42818782.67 42818782.81 0.0088 0.0016

Neptune 112521-12-26 05:30 G 42818870.59 42818870.73 42818870.87 0.0088 0.0009

Neptune 112522-03-24 06:56 G 42818958.65 42818958.79 42818958.92 0.0088 0.0003

Neptune 112522-06-20 08:08 G 42819046.71 42819046.84 42819046.98 0.0088 0.0005

Neptune 112522-09-16 09:34 G 42819134.77 42819134.90 42819135.04 0.0088 0.0011

Neptune 112522-12-13 11:01 G 42819222.83 42819222.96 42819223.09 0.0088 0.0018

Neptune 112523-03-11 12:27 G 42819310.89 42819311.02 42819311.15 0.0088 0.0024

Neptune 112523-06-07 13:39 G 42819398.95 42819399.07 42819399.20 0.0088 0.0031

Neptune 112523-09-03 14:51 G 42819487.01 42819487.12 42819487.25 0.0088 0.0038

Neptune 112523-11-30 16:32 G 42819575.07 42819575.19 42819575.30 0.0088 0.0044

Neptune 112524-02-26 17:44 G 42819663.13 42819663.24 42819663.35 0.0088 0.0051

Saturn 112524-04-01 11:30 G 42819697.91 42819697.98 42819698.07 0.0269 0.0239

Neptune 112524-05-24 19:10 G 42819751.20 42819751.30 42819751.40 0.0088 0.0057

Saturn 112524-06-29 07:25 G 42819786.64 42819786.81 42819786.99 0.0268 0.0057

Neptune 112524-08-20 20:22 G 42819839.26 42819839.35 42819839.45 0.0088 0.0064

Saturn 112524-09-26 03:34 G 42819875.49 42819875.65 42819875.82 0.0268 0.0128

Neptune 112524-11-16 21:34 G 42819927.33 42819927.40 42819927.49 0.0088 0.0071

Neptune 112525-02-12 23:01 G 42820015.41 42820015.46 42820015.53 0.0088 0.0077

Neptune 112525-05-12 00:13 G 42820103.49 42820103.51 42820103.56 0.0088 0.0084

Jupiter 112525-11-01 07:39 G 42820276.76 42820276.82 42820276.89 0.0528 0.0450

Jupiter 112526-01-29 15:34 G 42820366.03 42820366.15 42820366.27 0.0525 0.0215

Moon 112527-07-12 11:01 G 42820894.86 42820894.96 42820895.06 0.2656 0.1006

Earth 112527-07-12 11:44 G 42820894.89 42820894.99 42820895.09 0.2657 0.1189 *

Mars 112527-10-11 03:20 G 42820985.53 42820985.64 42820985.76 0.1803 0.0124

Mars 112528-11-07 10:46 G 42821378.78 42821378.95 42821379.11 0.1743 0.0351

Jupiter 112532-03-13 11:30 G 42822600.84 42822600.98 42822601.12 0.0501 0.0309

Jupiter 112532-06-11 17:30 G 42822691.21 42822691.23 42822691.27 0.0504 0.0497

Mars 112537-03-02 12:56 G 42824415.94 42824416.04 42824416.13 0.1812 0.1016

Venus 112537-11-16 13:54 G 42824675.00 42824675.08 42824675.17 0.3693 0.2319

Jupiter 112537-11-17 19:39 G 42824676.19 42824676.32 42824676.45 0.0525 0.0057

Mars 112538-03-30 08:51 G 42824808.74 42824808.87 42824809.00 0.1734 0.1065

Saturn 112539-04-28 23:44 G 42825203.40 42825203.49 42825203.59 0.0291 0.0200

Saturn 112539-07-26 12:27 G 42825291.89 42825292.02 42825292.16 0.0291 0.0029

Saturn 112539-10-23 00:56 G 42825380.43 42825380.54 42825380.66 0.0292 0.0144

Venus 112543-06-02 06:27 G 42826698.67 42826698.77 42826698.87 0.3690 0.0569

Jupiter 112544-03-30 15:06 G 42827000.99 42827001.13 42827001.28 0.0503 0.0286

Moon 112547-07-08 04:46 G 42828195.62 42828195.70 42828195.78 0.2655 0.1871

Earth 112547-07-08 05:01 G 42828195.63 42828195.71 42828195.79 0.2660 0.1798 *

Mars 112548-06-28 07:54 G 42828551.80 42828551.83 42828551.86 0.1786 0.1696

Uranus 112548-09-17 21:20 G 42828633.36 42828633.39 42828633.43 0.0139 0.0134

Uranus 112548-12-15 00:56 G 42828721.48 42828721.54 42828721.63 0.0139 0.0115

Venus 112548-12-15 22:46 G 42828722.35 42828722.45 42828722.55 0.3686 0.1134

Uranus 112549-03-13 04:46 G 42828809.61 42828809.70 42828809.81 0.0139 0.0094

Uranus 112549-06-09 08:37 G 42828897.75 42828897.86 42828897.98 0.0139 0.0074

Uranus 112549-09-05 12:13 G 42828985.89 42828986.01 42828986.14 0.0139 0.0054

Jupiter 112549-09-05 23:44 G 42828986.36 42828986.49 42828986.62 0.0526 0.0101

Uranus 112549-12-02 16:03 G 42829074.04 42829074.17 42829074.30 0.0140 0.0034

Moon 112550-01-10 17:58 G 42829113.14 42829113.25 42829113.36 0.2666 0.1923

Earth 112550-01-10 17:58 G 42829113.15 42829113.25 42829113.35 0.2673 0.2012 *

Uranus 112550-02-28 19:39 G 42829162.18 42829162.32 42829162.46 0.0140 0.0015

Uranus 112550-05-27 23:15 G 42829250.34 42829250.47 42829250.61 0.0140 0.0005

Venus 112550-07-02 12:56 G 42829285.91 42829286.04 42829286.16 0.3684 0.1851

Uranus 112550-08-24 02:51 G 42829338.49 42829338.62 42829338.76 0.0140 0.0025

Uranus 112550-11-20 06:27 G 42829426.64 42829426.77 42829426.90 0.0140 0.0045

Uranus 112551-02-16 10:03 G 42829514.80 42829514.92 42829515.04 0.0140 0.0064

Uranus 112551-05-15 13:39 G 42829602.96 42829603.07 42829603.18 0.0140 0.0084

Uranus 112551-08-11 17:15 G 42829691.13 42829691.22 42829691.31 0.0140 0.0103

Uranus 112551-11-07 20:37 G 42829779.31 42829779.36 42829779.43 0.0140 0.0123

Saturn 112553-11-16 05:58 G 42830518.59 42830518.75 42830518.91 0.0268 0.0118

Saturn 112554-02-13 01:54 G 42830607.41 42830607.58 42830607.76 0.0268 0.0065

Saturn 112554-05-12 22:03 G 42830696.37 42830696.42 42830696.49 0.0268 0.0250

Venus 112554-07-01 14:51 G 42830746.05 42830746.12 42830746.19 0.3683 0.2783

Venus 112556-01-16 19:10 G 42831310.20 42831310.30 42831310.40 0.3689 0.2634

Jupiter 112556-01-17 13:25 G 42831310.88 42831311.06 42831311.23 0.0503 0.0088

Mars 112557-11-18 17:30 G 42831982.13 42831982.23 42831982.34 0.1795 0.0853

Moon 112560-07-09 22:03 G 42832946.31 42832946.42 42832946.53 0.2659 0.0230

Earth 112560-07-09 22:46 G 42832946.34 42832946.45 42832946.56 0.2659 0.0139 *

Jupiter 112561-06-25 03:20 G 42833296.52 42833296.64 42833296.75 0.0526 0.0271

Jupiter 112561-09-22 10:46 G 42833385.86 42833385.95 42833386.03 0.0523 0.0382

Moon 112563-01-13 23:15 G 42833864.33 42833864.47 42833864.61 0.2672 0.1207

Earth 112563-01-14 00:42 G 42833864.40 42833864.53 42833864.66 0.2675 0.1538 *

Mars 112567-04-11 03:20 G 42835412.53 42835412.64 42835412.76 0.1803 0.0022

Jupiter 112567-11-05 11:44 G 42835620.81 42835620.99 42835621.16 0.0502 0.0108

Mars 112568-05-08 11:44 G 42835805.83 42835805.99 42835806.15 0.1743 0.0545

Saturn 112568-09-15 01:10 G 42835935.50 42835935.55 42835935.62 0.0292 0.0257

Saturn 112568-12-12 13:54 G 42836023.96 42836024.08 42836024.21 0.0292 0.0084

Saturn 112569-03-11 02:37 G 42836112.48 42836112.61 42836112.74 0.0292 0.0089

Saturn 112569-06-07 15:06 G 42836201.07 42836201.13 42836201.19 0.0292 0.0259

Jupiter 112573-04-13 06:42 G 42837606.71 42837606.78 42837606.85 0.0527 0.0442

Jupiter 112573-07-11 14:22 G 42837695.98 42837696.10 42837696.22 0.0524 0.0220

Moon 112573-07-12 16:18 G 42837697.09 42837697.18 42837697.27 0.2663 0.1487

Earth 112573-07-12 16:32 G 42837697.10 42837697.19 42837697.28 0.2657 0.1535 *

Mars 112576-08-31 12:56 G 42838842.94 42838843.04 42838843.14 0.1812 0.0904

Mars 112577-09-28 09:20 G 42839235.75 42839235.89 42839236.03 0.1734 0.0911

Jupiter 112579-08-24 09:49 G 42839930.77 42839930.91 42839931.05 0.0501 0.0307

Jupiter 112579-11-22 15:49 G 42840021.14 42840021.16 42840021.19 0.0504 0.0498

Saturn 112583-04-05 06:56 G 42841250.65 42841250.79 42841250.94 0.0269 0.0157

Saturn 112583-07-03 03:06 G 42841339.45 42841339.63 42841339.81 0.0269 0.0027

Saturn 112583-09-29 23:01 G 42841428.36 42841428.46 42841428.58 0.0268 0.0213

Jupiter 112585-04-29 17:44 G 42842006.11 42842006.24 42842006.37 0.0525 0.0048

Venus 112588-12-07 19:10 G 42843324.27 42843324.30 42843324.33 0.3696 0.3505

Uranus 112589-10-04 02:08 G 42843624.53 42843624.59 42843624.68 0.0139 0.0125

Uranus 112589-12-31 09:06 G 42843712.76 42843712.88 42843713.02 0.0138 0.0099

Uranus 112590-03-29 16:03 G 42843801.02 42843801.17 42843801.33 0.0138 0.0074

Uranus 112590-06-25 23:15 G 42843889.30 42843889.47 42843889.64 0.0138 0.0048

Uranus 112590-09-22 06:13 G 42843977.58 42843977.76 42843977.94 0.0138 0.0022

Uranus 112590-12-19 13:10 G 42844065.87 42844066.05 42844066.24 0.0138 0.0004

Uranus 112591-03-17 20:08 G 42844154.16 42844154.34 42844154.53 0.0138 0.0030

Uranus 112591-06-14 03:20 G 42844242.47 42844242.64 42844242.81 0.0138 0.0056

Uranus 112591-09-10 10:32 G 42844330.79 42844330.94 42844331.09 0.0138 0.0082

Jupiter 112591-09-10 13:25 G 42844330.92 42844331.06 42844331.21 0.0503 0.0290 *

Uranus 112591-12-07 17:15 G 42844419.12 42844419.22 42844419.35 0.0138 0.0109

Uranus 112592-03-05 00:42 G 42844507.50 42844507.53 42844507.57 0.0138 0.0135

Moon 112593-07-08 09:20 G 42844997.80 42844997.89 42844997.98 0.2662 0.1505

Earth 112593-07-08 10:03 G 42844997.82 42844997.92 42844998.01 0.2660 0.1444 *

Venus 112594-06-23 11:44 G 42845347.90 42845347.99 42845348.08 0.3692 0.1733

Moon 112596-01-11 23:01 G 42845915.33 42845915.46 42845915.59 0.2671 0.1492

Earth 112596-01-12 00:27 G 42845915.39 42845915.52 42845915.66 0.2673 0.1322 *

Jupiter 112597-02-15 21:34 G 42846316.27 42846316.40 42846316.53 0.0526 0.0114

Mars 112597-05-19 17:30 G 42846409.14 42846409.23 42846409.33 0.1794 0.0957

Saturn 112598-02-02 04:32 G 42846667.68 42846667.69 42846667.71 0.0291 0.0287

Saturn 112598-05-01 17:15 G 42846756.10 42846756.22 42846756.35 0.0291 0.0114

Saturn 112598-07-29 05:58 G 42846844.62 42846844.75 42846844.88 0.0291 0.0058

Saturn 112598-10-25 18:27 G 42846933.19 42846933.27 42846933.35 0.0292 0.0228

Venus 112600-01-07 04:03 G 42847371.57 42847371.67 42847371.78 0.3689 0.0088

Neptune 112603-06-29 21:20 G 42848640.33 42848640.39 42848640.47 0.0089 0.0082

Jupiter 112603-06-30 10:46 G 42848640.77 42848640.95 42848641.13 0.0503 0.0079

Neptune 112603-09-26 00:27 G 42848728.43 42848728.52 42848728.64 0.0089 0.0073

Neptune 112603-12-23 03:49 G 42848816.54 42848816.66 42848816.81 0.0089 0.0063

Neptune 112604-03-20 07:10 G 42848904.66 42848904.80 42848904.96 0.0089 0.0054

Neptune 112604-06-16 10:46 G 42848992.79 42848992.95 42848993.12 0.0089 0.0044

Neptune 112604-09-12 13:54 G 42849080.92 42849081.08 42849081.27 0.0089 0.0035

Neptune 112604-12-09 17:30 G 42849169.05 42849169.23 42849169.41 0.0089 0.0025

Neptune 112605-03-07 20:51 G 42849257.19 42849257.37 42849257.56 0.0089 0.0015

Neptune 112605-06-04 00:27 G 42849345.33 42849345.52 42849345.71 0.0089 0.0005

Venus 112605-07-23 20:22 G 42849395.26 42849395.35 42849395.44 0.3685 0.1680

Neptune 112605-08-31 03:49 G 42849433.47 42849433.66 42849433.85 0.0089 0.0004

Neptune 112605-11-27 07:10 G 42849521.62 42849521.80 42849521.99 0.0089 0.0014

Neptune 112606-02-23 10:32 G 42849609.76 42849609.94 42849610.13 0.0089 0.0024

Neptune 112606-05-22 14:08 G 42849697.91 42849698.09 42849698.26 0.0089 0.0034

Moon 112606-07-12 03:34 G 42849748.54 42849748.65 42849748.75 0.2664 0.0176

Earth 112606-07-12 03:34 G 42849748.54 42849748.65 42849748.76 0.2658 0.0246 *

Neptune 112606-08-18 17:15 G 42849786.07 42849786.22 42849786.40 0.0089 0.0044

Mars 112606-10-11 03:20 G 42849839.53 42849839.64 42849839.76 0.1803 0.0093

Neptune 112606-11-14 20:37 G 42849874.23 42849874.36 42849874.53 0.0089 0.0054

Venus 112607-02-07 14:08 G 42849958.95 42849959.09 42849959.24 0.3685 0.0489

Neptune 112607-02-11 00:13 G 42849962.39 42849962.51 42849962.65 0.0089 0.0063

Neptune 112607-05-10 03:34 G 42850050.56 42850050.65 42850050.77 0.0089 0.0073

Neptune 112607-08-06 07:25 G 42850138.74 42850138.81 42850138.88 0.0089 0.0083

Mars 112607-11-08 12:27 G 42850232.86 42850233.02 42850233.17 0.1743 0.0715

Jupiter 112608-12-06 01:39 G 42850626.46 42850626.57 42850626.68 0.0527 0.0274

Moon 112609-01-15 05:58 G 42850666.65 42850666.75 42850666.85 0.2680 0.2004

Earth 112609-01-15 07:10 G 42850666.72 42850666.80 42850666.89 0.2675 0.2240 *

Jupiter 112609-03-05 09:06 G 42850715.79 42850715.88 42850715.97 0.0523 0.0381

Venus 112611-02-06 12:27 G 42851418.98 42851419.02 42851419.06 0.3682 0.3321

Saturn 112612-08-23 05:58 G 42851982.65 42851982.75 42851982.87 0.0268 0.0212

Saturn 112612-11-20 02:08 G 42852071.41 42852071.59 42852071.77 0.0268 0.0030

Saturn 112613-02-16 22:03 G 42852160.28 42852160.42 42852160.58 0.0268 0.0154

Jupiter 112615-04-18 09:06 G 42852950.71 42852950.88 42852951.05 0.0502 0.0117

Mars 112616-03-02 12:42 G 42853269.93 42853270.03 42853270.14 0.1812 0.0807

Mars 112617-03-30 10:18 G 42853662.78 42853662.93 42853663.09 0.1734 0.0720

Earth 112619-07-14 21:20 G 42854499.31 42854499.39 42854499.46 0.2657 0.1876

Moon 112619-07-14 21:49 G 42854499.34 42854499.41 42854499.48 0.2662 0.2037 *

Jupiter 112620-09-24 05:01 G 42854936.64 42854936.71 42854936.78 0.0527 0.0445

Jupiter 112620-12-22 12:42 G 42855025.92 42855026.03 42855026.15 0.0524 0.0219

Mars 112625-07-23 22:18 G 42856700.39 42856700.43 42856700.46 0.1820 0.1714

Jupiter 112627-02-04 07:39 G 42857260.68 42857260.82 42857260.96 0.0501 0.0309

Jupiter 112627-05-05 13:39 G 42857351.05 42857351.07 42857351.10 0.0504 0.0499

Saturn 112627-09-19 18:56 G 42857488.18 42857488.29 42857488.40 0.0292 0.0169

Saturn 112627-12-17 07:39 G 42857576.68 42857576.82 42857576.95 0.0292 0.0007

Saturn 112628-03-14 20:08 G 42857665.23 42857665.34 42857665.45 0.0292 0.0174

Uranus 112632-10-09 04:17 G 42859334.64 42859334.68 42859334.73 0.0139 0.0130

Jupiter 112632-10-10 16:32 G 42859336.06 42859336.19 42859336.32 0.0525 0.0054

Uranus 112633-01-05 08:08 G 42859422.76 42859422.84 42859422.93 0.0139 0.0110

Uranus 112633-04-03 11:44 G 42859510.89 42859510.99 42859511.10 0.0139 0.0091

Uranus 112633-06-30 15:34 G 42859599.03 42859599.15 42859599.27 0.0139 0.0070

Uranus 112633-09-26 19:10 G 42859687.18 42859687.30 42859687.43 0.0139 0.0051

Uranus 112633-12-23 23:01 G 42859775.33 42859775.46 42859775.59 0.0140 0.0031

Uranus 112634-03-22 02:37 G 42859863.48 42859863.61 42859863.75 0.0140 0.0011

Uranus 112634-06-18 06:13 G 42859951.63 42859951.76 42859951.90 0.0140 0.0009

Uranus 112634-09-14 09:49 G 42860039.78 42860039.91 42860040.05 0.0140 0.0029

Uranus 112634-12-11 13:25 G 42860127.94 42860128.06 42860128.19 0.0140 0.0049

Uranus 112635-03-09 17:01 G 42860216.10 42860216.21 42860216.33 0.0140 0.0068

Uranus 112635-06-05 20:37 G 42860304.26 42860304.36 42860304.47 0.0140 0.0088

Uranus 112635-09-02 00:13 G 42860392.43 42860392.51 42860392.60 0.0140 0.0107

Uranus 112635-11-29 03:49 G 42860480.61 42860480.66 42860480.72 0.0140 0.0126

Mars 112636-11-18 17:44 G 42860836.15 42860836.24 42860836.33 0.1794 0.1071

Jupiter 112639-02-21 11:29 G 42861660.83 42861660.98 42861661.13 0.0503 0.0289

Moon 112639-07-10 14:37 G 42861800.01 42861800.11 42861800.21 0.2667 0.1103

Earth 112639-07-10 14:51 G 42861800.02 42861800.12 42861800.22 0.2660 0.1090 *

Saturn 112642-01-10 06:56 G 42862714.74 42862714.79 42862714.86 0.0269 0.0251

Moon 112642-01-13 06:13 G 42862717.62 42862717.76 42862717.91 0.2680 0.0865

Earth 112642-01-13 07:10 G 42862717.64 42862717.80 42862717.95 0.2673 0.0639 *

Saturn 112642-04-09 03:05 G 42862803.45 42862803.63 42862803.80 0.0269 0.0069

Saturn 112642-07-06 23:01 G 42862892.30 42862892.46 42862892.63 0.0268 0.0116

Jupiter 112644-07-29 19:39 G 42863646.19 42863646.32 42863646.44 0.0526 0.0126

Jupiter 112644-10-27 02:51 G 42863735.61 42863735.62 42863735.63 0.0523 0.0521

Venus 112645-07-15 17:01 G 42863997.14 42863997.21 42863997.27 0.3695 0.2919

Mars 112646-04-11 03:20 G 42864266.52 42864266.64 42864266.75 0.1803 0.0199

Mars 112647-05-09 13:10 G 42864659.90 42864660.05 42864660.19 0.1744 0.0893

Jupiter 112650-12-10 09:05 G 42865970.71 42865970.88 42865971.06 0.0502 0.0083

Venus 112651-01-29 09:20 G 42866020.79 42866020.89 42866020.99 0.3692 0.1164

Earth 112652-07-12 08:22 G 42866550.75 42866550.85 42866550.96 0.2658 0.0589

Moon 112652-07-12 09:05 G 42866550.78 42866550.88 42866550.99 0.2661 0.0681 *

Mars 112655-09-01 12:41 G 42867696.93 42867697.03 42867697.14 0.1811 0.0696

Jupiter 112656-05-17 23:15 G 42867956.36 42867956.47 42867956.58 0.0527 0.0290

Venus 112656-08-14 01:39 G 42868044.47 42868044.57 42868044.68 0.3688 0.0575

Jupiter 112656-08-15 06:56 G 42868045.70 42868045.79 42868045.88 0.0524 0.0366

Mars 112656-09-28 11:15 G 42868089.81 42868089.97 42868090.13 0.1735 0.0542

Saturn 112657-02-05 22:32 G 42868220.35 42868220.44 42868220.54 0.0291 0.0196

Saturn 112657-05-05 11:15 G 42868308.84 42868308.97 42868309.11 0.0291 0.0024

Saturn 112657-08-01 23:44 G 42868397.38 42868397.49 42868397.61 0.0291 0.0148

Pluto 112657-09-23 05:15 G 42868449.63 42868449.72 42868449.83 0.0060 0.0051

Pluto 112657-12-20 06:27 G 42868537.65 42868537.77 42868537.93 0.0060 0.0042

Venus 112658-02-28 09:34 G 42868607.85 42868607.90 42868607.95 0.3682 0.3446

Pluto 112658-03-18 07:39 G 42868625.68 42868625.82 42868626.01 0.0060 0.0033

Pluto 112658-06-14 09:20 G 42868713.72 42868713.89 42868714.08 0.0060 0.0023

Pluto 112658-09-10 10:46 G 42868801.76 42868801.95 42868802.15 0.0060 0.0014

Pluto 112658-12-07 12:13 G 42868889.82 42868890.01 42868890.21 0.0060 0.0004

Pluto 112659-03-05 13:39 G 42868977.88 42868978.07 42868978.27 0.0060 0.0005

Pluto 112659-06-01 14:51 G 42869065.94 42869066.12 42869066.32 0.0060 0.0015

Pluto 112659-08-28 16:17 G 42869154.01 42869154.18 42869154.37 0.0060 0.0025

Pluto 112659-11-24 17:29 G 42869242.08 42869242.23 42869242.41 0.0060 0.0034

Pluto 112660-02-20 19:10 G 42869330.17 42869330.30 42869330.44 0.0060 0.0044

Pluto 112660-05-18 20:08 G 42869418.27 42869418.34 42869418.45 0.0060 0.0054

Venus 112662-02-27 17:58 G 42870068.17 42870068.25 42870068.33 0.3685 0.2225

Jupiter 112662-09-28 06:27 G 42870280.60 42870280.77 42870280.94 0.0502 0.0128

Venus 112663-09-14 15:34 G 42870632.01 42870632.15 42870632.29 0.3687 0.0886

Mars 112665-01-21 22:03 G 42871127.37 42871127.42 42871127.48 0.1820 0.1616

Earth 112665-07-15 02:08 G 42871301.53 42871301.59 42871301.64 0.2656 0.2223

Moon 112665-07-15 02:37 G 42871301.56 42871301.61 42871301.66 0.2654 0.2306 *

Jupiter 112668-03-06 03:05 G 42872266.57 42872266.63 42872266.70 0.0528 0.0452

Jupiter 112668-06-03 11:15 G 42872355.85 42872355.97 42872356.09 0.0524 0.0214

Saturn 112671-08-27 02:37 G 42873535.45 42873535.61 42873535.78 0.0268 0.0120

Saturn 112671-11-23 22:46 G 42873624.27 42873624.45 42873624.63 0.0268 0.0064

Saturn 112672-02-20 18:56 G 42873713.23 42873713.29 42873713.36 0.0268 0.0248

Moon 112672-07-08 01:53 G 42873851.53 42873851.58 42873851.63 0.2668 0.2355

Earth 112672-07-08 01:53 G 42873851.53 42873851.58 42873851.62 0.2661 0.2424 *

Uranus 112673-10-25 09:05 G 42874325.80 42874325.88 42874325.99 0.0139 0.0119

Uranus 112674-01-21 16:17 G 42874414.05 42874414.18 42874414.32 0.0138 0.0093

Uranus 112674-04-19 23:01 G 42874502.31 42874502.46 42874502.63 0.0138 0.0068

Jupiter 112674-07-17 05:01 G 42874590.57 42874590.71 42874590.84 0.0501 0.0320

Uranus 112674-07-17 06:13 G 42874590.59 42874590.76 42874590.94 0.0138 0.0041 *

Uranus 112674-10-13 13:10 G 42874678.87 42874679.05 42874679.24 0.0138 0.0016

Jupiter 112674-10-15 11:01 G 42874680.92 42874680.96 42874681.01 0.0504 0.0485

Uranus 112675-01-09 20:22 G 42874767.16 42874767.35 42874767.53 0.0138 0.0011

Uranus 112675-04-08 03:20 G 42874855.46 42874855.64 42874855.82 0.0138 0.0037

Uranus 112675-07-05 10:17 G 42874943.77 42874943.93 42874944.10 0.0138 0.0063

Uranus 112675-10-01 17:15 G 42875032.09 42875032.22 42875032.38 0.0138 0.0089

Uranus 112675-12-29 00:27 G 42875120.43 42875120.52 42875120.63 0.0138 0.0115

Mars 112676-05-19 17:29 G 42875263.14 42875263.23 42875263.32 0.1794 0.1162

Jupiter 112680-03-22 14:51 G 42876665.99 42876666.12 42876666.25 0.0525 0.0049

Neptune 112683-11-01 11:58 G 42877984.99 42877985.00 42877985.03 0.0088 0.0087

Neptune 112684-01-28 13:25 G 42878073.01 42878073.06 42878073.12 0.0088 0.0080

Neptune 112684-04-25 14:51 G 42878161.05 42878161.12 42878161.20 0.0088 0.0073

Neptune 112684-07-22 16:32 G 42878249.10 42878249.19 42878249.28 0.0088 0.0066

Neptune 112684-10-18 17:44 G 42878337.15 42878337.24 42878337.35 0.0088 0.0060

Neptune 112685-01-14 19:10 G 42878425.20 42878425.30 42878425.42 0.0088 0.0053

Neptune 112685-04-12 20:37 G 42878513.25 42878513.36 42878513.48 0.0088 0.0046

Neptune 112685-07-09 22:03 G 42878601.30 42878601.42 42878601.55 0.0088 0.0039

Earth 112685-07-10 19:39 G 42878602.21 42878602.32 42878602.42 0.2659 0.0735

Moon 112685-07-10 20:08 G 42878602.24 42878602.34 42878602.45 0.2662 0.0692 *

Neptune 112685-10-05 23:29 G 42878689.36 42878689.48 42878689.61 0.0088 0.0033

Mars 112685-10-10 03:20 G 42878693.53 42878693.64 42878693.75 0.1803 0.0310

Neptune 112686-01-02 00:56 G 42878777.41 42878777.54 42878777.68 0.0088 0.0026

Neptune 112686-03-31 02:22 G 42878865.47 42878865.60 42878865.74 0.0088 0.0019

Saturn 112686-06-25 23:58 G 42878952.44 42878952.50 42878952.57 0.0291 0.0253

Neptune 112686-06-27 03:49 G 42878953.53 42878953.66 42878953.80 0.0088 0.0012

Jupiter 112686-08-03 09:05 G 42878990.73 42878990.88 42878991.03 0.0503 0.0283

Saturn 112686-09-22 12:41 G 42879040.90 42879041.03 42879041.16 0.0292 0.0080

Neptune 112686-09-23 05:15 G 42879041.58 42879041.72 42879041.86 0.0088 0.0006

Mars 112686-11-07 14:08 G 42879086.95 42879087.09 42879087.22 0.1744 0.1082

Saturn 112686-12-20 01:25 G 42879129.43 42879129.56 42879129.68 0.0292 0.0092

Neptune 112686-12-20 06:41 G 42879129.64 42879129.78 42879129.91 0.0088 0.0002 *

Neptune 112687-03-18 07:53 G 42879217.70 42879217.83 42879217.97 0.0088 0.0008

Saturn 112687-03-18 13:39 G 42879218.02 42879218.07 42879218.13 0.0292 0.0263

Neptune 112687-06-14 09:20 G 42879305.76 42879305.89 42879306.03 0.0088 0.0015

Neptune 112687-09-10 10:46 G 42879393.82 42879393.95 42879394.08 0.0088 0.0021

Neptune 112687-12-07 11:58 G 42879481.88 42879482.00 42879482.13 0.0088 0.0028

Earth 112688-01-14 13:39 G 42879519.91 42879520.07 42879520.22 0.2674 0.0060

Moon 112688-01-14 14:37 G 42879519.95 42879520.11 42879520.26 0.2680 0.0174 *

Neptune 112688-03-04 13:25 G 42879569.94 42879570.06 42879570.19 0.0088 0.0034

Neptune 112688-05-31 14:51 G 42879658.00 42879658.12 42879658.24 0.0088 0.0041

Neptune 112688-08-27 16:03 G 42879746.06 42879746.17 42879746.29 0.0088 0.0048

Neptune 112688-11-23 17:29 G 42879834.13 42879834.23 42879834.34 0.0088 0.0054

Neptune 112689-02-19 18:41 G 42879922.19 42879922.28 42879922.39 0.0088 0.0061

Neptune 112689-05-18 20:22 G 42880010.26 42880010.35 42880010.43 0.0088 0.0067

Neptune 112689-08-14 21:20 G 42880098.33 42880098.39 42880098.47 0.0088 0.0074

Neptune 112689-11-10 23:01 G 42880186.41 42880186.46 42880186.51 0.0088 0.0080

Neptune 112690-02-06 23:58 G 42880274.50 42880274.50 42880274.53 0.0088 0.0087

Jupiter 112692-01-09 18:27 G 42880976.14 42880976.27 42880976.40 0.0526 0.0120

Mars 112695-03-02 12:56 G 42882123.93 42882124.04 42882124.14 0.1811 0.0589

Mars 112696-03-29 11:44 G 42882516.83 42882516.99 42882517.15 0.1735 0.0383

Jupiter 112698-05-22 07:10 G 42883300.62 42883300.80 42883300.97 0.0502 0.0081

Earth 112698-07-13 13:10 G 42883352.95 42883353.05 42883353.16 0.2658 0.0932

Moon 112698-07-13 13:53 G 42883352.98 42883353.08 42883353.18 0.2654 0.1090 *

Saturn 112701-01-14 03:34 G 42884267.51 42884267.65 42884267.80 0.0269 0.0160

Saturn 112701-04-12 23:29 G 42884356.30 42884356.48 42884356.67 0.0269 0.0024

Saturn 112701-07-10 19:53 G 42884445.21 42884445.33 42884445.44 0.0268 0.0209

Venus 112702-02-20 14:37 G 42884670.03 42884670.11 42884670.19 0.3694 0.2334

Jupiter 112703-10-29 21:20 G 42885286.28 42885286.39 42885286.50 0.0527 0.0302

Jupiter 112704-01-27 05:01 G 42885375.61 42885375.71 42885375.80 0.0524 0.0355

Mars 112704-07-23 22:03 G 42885554.36 42885554.42 42885554.49 0.1820 0.1508

Venus 112707-09-06 07:10 G 42886693.69 42886693.80 42886693.90 0.3691 0.0590

Jupiter 112710-03-11 04:46 G 42887610.53 42887610.70 42887610.88 0.0501 0.0123

Moon 112711-07-17 06:41 G 42888103.74 42888103.78 42888103.82 0.2650 0.2457

Earth 112711-07-17 06:56 G 42888103.76 42888103.79 42888103.81 0.2656 0.2569 *

Venus 112713-03-21 23:29 G 42888717.38 42888717.48 42888717.58 0.3687 0.1114

Venus 112714-10-06 10:46 G 42889280.83 42889280.95 42889281.07 0.3683 0.2142

Jupiter 112715-08-18 00:56 G 42889596.48 42889596.54 42889596.60 0.0528 0.0470

Saturn 112715-11-14 03:49 G 42889684.63 42889684.66 42889684.70 0.0291 0.0277

Jupiter 112715-11-15 08:51 G 42889685.75 42889685.87 42889685.99 0.0525 0.0196

Mars 112715-11-19 17:29 G 42889690.15 42889690.23 42889690.31 0.1794 0.1275

Saturn 112716-02-10 16:32 G 42889773.07 42889773.19 42889773.32 0.0291 0.0104

Saturn 112716-05-09 05:15 G 42889861.59 42889861.72 42889861.85 0.0291 0.0068

Saturn 112716-08-05 17:44 G 42889950.16 42889950.24 42889950.31 0.0292 0.0238

Uranus 112716-10-30 11:29 G 42890035.93 42890035.98 42890036.04 0.0139 0.0125

Uranus 112717-01-26 15:20 G 42890124.05 42890124.14 42890124.23 0.0139 0.0105

Uranus 112717-04-24 18:56 G 42890212.19 42890212.29 42890212.41 0.0139 0.0086

Uranus 112717-07-21 22:46 G 42890300.33 42890300.45 42890300.57 0.0139 0.0065

Uranus 112717-10-18 02:22 G 42890388.47 42890388.60 42890388.73 0.0139 0.0046

Uranus 112718-01-14 06:13 G 42890476.62 42890476.76 42890476.89 0.0140 0.0026

Uranus 112718-04-12 09:49 G 42890564.77 42890564.91 42890565.05 0.0140 0.0006

Uranus 112718-07-09 13:25 G 42890652.92 42890653.06 42890653.20 0.0140 0.0014

Earth 112718-07-10 06:41 G 42890653.71 42890653.78 42890653.85 0.2661 0.2070

Moon 112718-07-10 07:25 G 42890653.73 42890653.81 42890653.88 0.2663 0.1950 *

Venus 112718-10-05 15:34 G 42890741.08 42890741.15 42890741.22 0.3684 0.2765

Uranus 112718-10-05 17:01 G 42890741.08 42890741.21 42890741.34 0.0140 0.0033 *

Uranus 112719-01-01 20:37 G 42890829.24 42890829.36 42890829.49 0.0140 0.0053

Uranus 112719-03-31 00:13 G 42890917.40 42890917.51 42890917.63 0.0140 0.0073

Uranus 112719-06-27 03:49 G 42891005.56 42891005.66 42891005.76 0.0140 0.0092

Uranus 112719-09-23 07:25 G 42891093.73 42891093.81 42891093.89 0.0140 0.0111

Uranus 112719-12-20 10:46 G 42891181.91 42891181.95 42891182.00 0.0140 0.0131

Venus 112720-04-21 17:01 G 42891305.09 42891305.21 42891305.33 0.3688 0.2288

Moon 112721-01-12 15:05 G 42891571.11 42891571.13 42891571.15 0.2676 0.2651

Jupiter 112721-12-28 02:08 G 42891920.46 42891920.59 42891920.72 0.0501 0.0332

Jupiter 112722-03-28 08:08 G 42892010.78 42892010.84 42892010.90 0.0504 0.0471

Mars 112725-04-11 03:20 G 42893120.52 42893120.64 42893120.75 0.1802 0.0414

Mars 112726-05-09 14:51 G 42893514.00 42893514.12 42893514.23 0.1744 0.1260

Jupiter 112727-09-03 12:56 G 42893995.91 42893996.04 42893996.17 0.0525 0.0044

Saturn 112730-06-03 03:49 G 42894999.55 42894999.66 42894999.78 0.0268 0.0205

Saturn 112730-08-30 23:44 G 42895088.31 42895088.49 42895088.67 0.0268 0.0024

Saturn 112730-11-27 19:53 G 42895177.18 42895177.33 42895177.47 0.0268 0.0160

Earth 112731-07-13 00:27 G 42895404.41 42895404.52 42895404.63 0.2659 0.0382

Moon 112731-07-13 00:56 G 42895404.43 42895404.54 42895404.65 0.2654 0.0309 *

Jupiter 112734-01-14 05:58 G 42896320.61 42896320.75 42896320.91 0.0503 0.0269

Earth 112734-01-15 20:08 G 42896322.19 42896322.34 42896322.49 0.2674 0.0750

Moon 112734-01-15 21:34 G 42896322.26 42896322.40 42896322.55 0.2671 0.1080 *

Mars 112734-09-01 12:41 G 42896550.92 42896551.03 42896551.14 0.1811 0.0484

Mars 112735-09-29 12:41 G 42896943.86 42896944.03 42896944.19 0.1735 0.0197

Jupiter 112739-06-22 16:46 G 42898306.07 42898306.20 42898306.32 0.0526 0.0124

Jupiter 112739-09-19 23:44 G 42898395.49 42898395.49 42898395.50 0.0523 0.0522

Mars 112744-01-22 22:17 G 42899981.35 42899981.43 42899981.50 0.1820 0.1390

Moon 112744-07-14 17:44 G 42900155.14 42900155.24 42900155.34 0.2652 0.1214

Earth 112744-07-14 17:58 G 42900155.16 42900155.25 42900155.35 0.2658 0.1283 *

Mars 112745-02-18 10:46 G 42900373.89 42900373.95 42900374.02 0.1726 0.1597

Saturn 112745-06-29 17:58 G 42900505.14 42900505.25 42900505.36 0.0292 0.0161

Saturn 112745-09-26 06:41 G 42900593.65 42900593.78 42900593.91 0.0292 0.0012

Jupiter 112745-11-02 04:17 G 42900630.51 42900630.68 42900630.86 0.0503 0.0072

Saturn 112745-12-23 19:10 G 42900682.20 42900682.30 42900682.40 0.0292 0.0182

Jupiter 112751-04-10 20:08 G 42902616.23 42902616.34 42902616.45 0.0527 0.0295

Jupiter 112751-07-09 03:34 G 42902705.56 42902705.65 42902705.75 0.0523 0.0361

Venus 112753-03-13 19:53 G 42903319.30 42903319.33 42903319.35 0.3697 0.3535

Pluto 112753-06-18 16:32 G 42903416.14 42903416.19 42903416.24 0.0085 0.0077

Pluto 112753-09-14 17:44 G 42903504.15 42903504.24 42903504.33 0.0085 0.0059

Pluto 112753-12-11 18:56 G 42903592.17 42903592.29 42903592.40 0.0085 0.0041

Pluto 112754-03-09 20:08 G 42903680.21 42903680.34 42903680.47 0.0085 0.0023

Pluto 112754-06-05 21:20 G 42903768.26 42903768.39 42903768.52 0.0084 0.0005

Pluto 112754-09-01 22:32 G 42903856.31 42903856.44 42903856.57 0.0084 0.0013

Pluto 112754-11-28 23:44 G 42903944.37 42903944.49 42903944.61 0.0084 0.0031

Pluto 112755-02-25 00:56 G 42904032.43 42904032.54 42904032.65 0.0084 0.0048

Mars 112755-05-20 17:29 G 42904117.16 42904117.23 42904117.30 0.1794 0.1385

Pluto 112755-05-24 01:53 G 42904120.51 42904120.58 42904120.67 0.0084 0.0066

Pluto 112755-08-20 03:05 G 42904208.63 42904208.63 42904208.65 0.0084 0.0083

Uranus 112757-08-19 09:20 G 42904938.88 42904938.89 42904938.92 0.0139 0.0138

Jupiter 112757-08-21 02:37 G 42904940.44 42904940.61 42904940.79 0.0501 0.0126

Uranus 112757-11-15 16:03 G 42905027.08 42905027.17 42905027.29 0.0139 0.0113

Uranus 112758-02-11 23:15 G 42905115.33 42905115.47 42905115.62 0.0138 0.0087

Uranus 112758-05-11 05:58 G 42905203.60 42905203.75 42905203.93 0.0138 0.0062

Uranus 112758-08-07 13:10 G 42905291.88 42905292.05 42905292.23 0.0138 0.0035

Venus 112758-09-27 12:27 G 42905342.92 42905343.02 42905343.11 0.3693 0.1758

Uranus 112758-11-03 20:08 G 42905380.16 42905380.34 42905380.53 0.0138 0.0010

Uranus 112759-01-31 03:20 G 42905468.45 42905468.64 42905468.82 0.0138 0.0017

Uranus 112759-04-29 10:17 G 42905556.76 42905556.93 42905557.11 0.0138 0.0043

Uranus 112759-07-26 17:15 G 42905645.07 42905645.22 42905645.39 0.0138 0.0069

Saturn 112759-10-21 04:32 G 42905731.62 42905731.69 42905731.75 0.0269 0.0248

Uranus 112759-10-23 00:13 G 42905733.39 42905733.51 42905733.66 0.0138 0.0095

Saturn 112760-01-18 00:13 G 42905820.34 42905820.51 42905820.69 0.0269 0.0067

Uranus 112760-01-19 07:25 G 42905821.73 42905821.81 42905821.91 0.0138 0.0121

Saturn 112760-04-15 20:22 G 42905909.19 42905909.35 42905909.51 0.0268 0.0118

Jupiter 112763-01-27 22:46 G 42906926.40 42906926.45 42906926.51 0.0528 0.0480

Jupiter 112763-04-27 06:56 G 42907015.67 42907015.79 42907015.91 0.0525 0.0187

Venus 112764-04-12 04:46 G 42907366.59 42907366.70 42907366.80 0.3690 0.0072

Earth 112764-07-10 11:29 G 42907455.90 42907455.98 42907456.06 0.2661 0.1710

Moon 112764-07-10 11:44 G 42907455.91 42907455.99 42907456.08 0.2654 0.1720 *

Mars 112764-10-10 03:05 G 42907547.52 42907547.63 42907547.74 0.1802 0.0521

Mars 112765-11-07 15:34 G 42907941.05 42907941.15 42907941.24 0.1744 0.1432

Earth 112767-01-13 20:08 G 42908373.25 42908373.34 42908373.44 0.2672 0.2084

Moon 112767-01-13 21:34 G 42908373.29 42908373.40 42908373.50 0.2669 0.1908 *

Neptune 112767-12-29 16:32 G 42908723.16 42908723.19 42908723.25 0.0089 0.0087

Neptune 112768-03-26 19:53 G 42908811.25 42908811.33 42908811.43 0.0089 0.0077

Neptune 112768-06-22 23:29 G 42908899.36 42908899.48 42908899.60 0.0089 0.0068

Neptune 112768-09-19 02:37 G 42908987.48 42908987.61 42908987.76 0.0089 0.0058

Neptune 112768-12-16 06:13 G 42909075.60 42909075.76 42909075.91 0.0089 0.0049

Neptune 112769-03-14 09:20 G 42909163.73 42909163.89 42909164.07 0.0089 0.0039

Jupiter 112769-06-09 00:41 G 42909250.40 42909250.53 42909250.67 0.0501 0.0324

Neptune 112769-06-10 12:41 G 42909251.86 42909252.03 42909252.22 0.0089 0.0030

Neptune 112769-09-06 16:03 G 42909340.00 42909340.17 42909340.36 0.0089 0.0020

Jupiter 112769-09-07 06:41 G 42909340.72 42909340.78 42909340.83 0.0504 0.0477

Venus 112769-10-26 21:05 G 42909390.28 42909390.38 42909390.47 0.3686 0.1657

Neptune 112769-12-03 19:39 G 42909428.13 42909428.32 42909428.51 0.0089 0.0010

Neptune 112770-03-01 23:01 G 42909516.27 42909516.46 42909516.65 0.0089 0.0001

Neptune 112770-05-29 02:22 G 42909604.42 42909604.60 42909604.79 0.0089 0.0009

Neptune 112770-08-25 05:44 G 42909692.56 42909692.74 42909692.93 0.0089 0.0019

Neptune 112770-11-21 09:05 G 42909780.71 42909780.88 42909781.07 0.0089 0.0029

Neptune 112771-02-17 12:27 G 42909868.86 42909869.02 42909869.20 0.0089 0.0039

Venus 112771-05-13 11:58 G 42909953.86 42909954.00 42909954.15 0.3685 0.0811

Neptune 112771-05-16 15:49 G 42909957.02 42909957.16 42909957.33 0.0089 0.0049

Neptune 112771-08-12 19:10 G 42910045.18 42910045.30 42910045.46 0.0089 0.0059

Neptune 112771-11-08 23:01 G 42910133.34 42910133.46 42910133.59 0.0089 0.0068

Neptune 112772-02-05 02:22 G 42910221.52 42910221.60 42910221.70 0.0089 0.0078

Neptune 112772-05-03 05:44 G 42910309.72 42910309.74 42910309.79 0.0089 0.0088

Mars 112774-03-02 12:41 G 42910977.92 42910978.03 42910978.14 0.1811 0.0373

Saturn 112774-11-16 21:49 G 42911237.31 42911237.41 42911237.51 0.0291 0.0187

Saturn 112775-02-13 10:32 G 42911325.80 42911325.94 42911326.07 0.0291 0.0015

Jupiter 112775-02-13 10:46 G 42911325.82 42911325.95 42911326.08 0.0526 0.0027 *

Mars 112775-03-30 13:25 G 42911370.90 42911371.06 42911371.23 0.1735 0.0043

Venus 112775-05-12 13:10 G 42911414.00 42911414.05 42911414.09 0.3683 0.3290

Saturn 112775-05-12 23:01 G 42911414.35 42911414.46 42911414.57 0.0292 0.0156

Moon 112777-07-13 04:46 G 42912206.59 42912206.70 42912206.82 0.2653 0.0096

Earth 112777-07-13 05:15 G 42912206.61 42912206.72 42912206.83 0.2659 0.0030 *

Moon 112780-01-17 02:37 G 42913124.47 42913124.61 42913124.74 0.2667 0.1416

Earth 112780-01-17 02:51 G 42913124.48 42913124.62 42913124.75 0.2675 0.1442 *

Jupiter 112781-06-26 03:20 G 42913650.49 42913650.64 42913650.79 0.0503 0.0256

Mars 112783-07-23 22:03 G 42914408.34 42914408.42 42914408.50 0.1819 0.1293

Mars 112784-08-19 11:29 G 42914800.89 42914800.98 42914801.08 0.1727 0.1429

Jupiter 112786-12-02 14:51 G 42915635.99 42915636.12 42915636.25 0.0526 0.0132

Jupiter 112787-03-01 22:03 G 42915725.41 42915725.42 42915725.44 0.0523 0.0515

Saturn 112789-06-06 00:56 G 42916552.38 42916552.54 42916552.71 0.0268 0.0108

Saturn 112789-09-02 20:51 G 42916641.20 42916641.37 42916641.55 0.0268 0.0074

Saturn 112789-11-30 17:01 G 42916730.17 42916730.21 42916730.26 0.0268 0.0259

Moon 112790-07-15 22:03 G 42916957.33 42916957.42 42916957.52 0.2659 0.1441

Earth 112790-07-15 22:46 G 42916957.37 42916957.45 42916957.54 0.2657 0.1629 *

Jupiter 112793-04-14 01:25 G 42917960.39 42917960.56 42917960.74 0.0502 0.0059

Mars 112794-11-18 17:29 G 42918544.16 42918544.23 42918544.29 0.1793 0.1483

Jupiter 112798-09-20 18:27 G 42919946.16 42919946.27 42919946.38 0.0527 0.0298

Jupiter 112798-12-19 02:08 G 42920035.49 42920035.59 42920035.68 0.0524 0.0357

Uranus 112800-11-19 18:27 G 42920737.22 42920737.27 42920737.35 0.0139 0.0122

Uranus 112801-02-15 22:32 G 42920825.35 42920825.44 42920825.53 0.0139 0.0101

Uranus 112801-05-15 02:08 G 42920913.48 42920913.59 42920913.71 0.0139 0.0081

Uranus 112801-08-11 05:44 G 42921001.62 42921001.74 42921001.87 0.0139 0.0061

Uranus 112801-11-07 09:34 G 42921089.77 42921089.90 42921090.03 0.0140 0.0041

Uranus 112802-02-03 13:10 G 42921177.92 42921178.05 42921178.19 0.0140 0.0022

Uranus 112802-05-02 16:46 G 42921266.07 42921266.20 42921266.34 0.0140 0.0005

Uranus 112802-07-29 20:22 G 42921354.22 42921354.35 42921354.49 0.0140 0.0019

Uranus 112802-10-26 00:13 G 42921442.38 42921442.51 42921442.64 0.0140 0.0038

Uranus 112803-01-22 03:34 G 42921530.53 42921530.65 42921530.78 0.0140 0.0058

Uranus 112803-04-20 07:10 G 42921618.69 42921618.80 42921618.92 0.0140 0.0077

Uranus 112803-07-17 11:01 G 42921706.86 42921706.96 42921707.05 0.0140 0.0096

Uranus 112803-10-13 14:22 G 42921795.03 42921795.10 42921795.18 0.0140 0.0116

Uranus 112804-01-09 17:58 G 42921883.22 42921883.25 42921883.29 0.0140 0.0135

Saturn 112804-04-04 23:01 G 42921969.39 42921969.46 42921969.53 0.0291 0.0247

Mars 112804-04-10 03:05 G 42921974.53 42921974.63 42921974.74 0.1802 0.0628

Saturn 112804-07-02 11:44 G 42922057.86 42922057.99 42922058.12 0.0292 0.0073

Saturn 112804-09-29 00:13 G 42922146.39 42922146.51 42922146.64 0.0292 0.0099

Saturn 112804-12-26 12:41 G 42922234.99 42922235.03 42922235.08 0.0292 0.0269

Jupiter 112805-01-30 23:58 G 42922270.33 42922270.50 42922270.67 0.0502 0.0136

Mars 112805-05-08 16:32 G 42922368.13 42922368.19 42922368.24 0.1744 0.1628

Venus 112809-10-18 17:29 G 42923992.17 42923992.23 42923992.29 0.3696 0.2948

Jupiter 112810-07-09 21:49 G 42924256.35 42924256.41 42924256.47 0.0528 0.0471

Moon 112810-07-11 15:49 G 42924258.07 42924258.16 42924258.25 0.2655 0.1436

Earth 112810-07-11 16:17 G 42924258.09 42924258.18 42924258.28 0.2660 0.1356 *

Jupiter 112810-10-07 05:44 G 42924345.62 42924345.74 42924345.86 0.0524 0.0195

Moon 112813-01-14 01:53 G 42925175.45 42925175.58 42925175.71 0.2667 0.1424

Earth 112813-01-14 02:37 G 42925175.48 42925175.61 42925175.74 0.2673 0.1409 *

Mars 112813-08-31 12:41 G 42925404.92 42925405.03 42925405.15 0.1810 0.0265

Mars 112814-09-28 13:53 G 42925797.92 42925798.08 42925798.25 0.1735 0.0153

Venus 112815-05-04 10:03 G 42926015.82 42926015.92 42926016.02 0.3692 0.1191

Jupiter 112816-11-18 22:32 G 42926580.31 42926580.44 42926580.58 0.0501 0.0327

Jupiter 112817-02-17 04:32 G 42926670.63 42926670.69 42926670.75 0.0504 0.0474

Saturn 112818-10-24 00:56 G 42927284.40 42927284.54 42927284.69 0.0268 0.0156

Saturn 112819-01-20 20:51 G 42927373.19 42927373.37 42927373.55 0.0268 0.0027

Saturn 112819-04-19 17:01 G 42927462.10 42927462.21 42927462.32 0.0268 0.0212

Venus 112820-11-17 02:22 G 42928039.50 42928039.60 42928039.70 0.3689 0.0522

Jupiter 112822-07-26 08:51 G 42928655.74 42928655.87 42928656.00 0.0526 0.0020

Mars 112823-01-21 22:03 G 42928835.34 42928835.42 42928835.51 0.1819 0.1182

Moon 112823-07-14 09:20 G 42929008.78 42929008.89 42929009.00 0.2662 0.0227

Earth 112823-07-14 10:03 G 42929008.81 42929008.92 42929009.03 0.2659 0.0323 *

Mars 112824-02-18 12:27 G 42929227.90 42929228.02 42929228.13 0.1727 0.1249

Moon 112826-01-17 07:53 G 42929926.71 42929926.83 42929926.94 0.2674 0.1785

Earth 112826-01-17 09:20 G 42929926.80 42929926.89 42929926.98 0.2675 0.2142 *

Venus 112826-06-02 18:41 G 42930063.19 42930063.28 42930063.36 0.3685 0.2198

Venus 112827-12-18 13:25 G 42930626.92 42930627.06 42930627.21 0.3686 0.0565

Jupiter 112828-12-06 02:08 G 42930980.44 42930980.59 42930980.74 0.0503 0.0266

Saturn 112833-08-23 02:37 G 42932701.57 42932701.61 42932701.66 0.0291 0.0274

Saturn 112833-11-19 15:20 G 42932790.02 42932790.14 42932790.27 0.0291 0.0101

Saturn 112834-02-16 04:03 G 42932878.54 42932878.67 42932878.80 0.0292 0.0072

Jupiter 112834-05-14 12:41 G 42932965.90 42932966.03 42932966.15 0.0527 0.0148

Saturn 112834-05-15 16:32 G 42932967.12 42932967.19 42932967.26 0.0292 0.0242

Mars 112834-05-19 17:29 G 42932971.17 42932971.23 42932971.28 0.1793 0.1591

Jupiter 112834-08-11 19:53 G 42933055.30 42933055.33 42933055.37 0.0523 0.0501

Moon 112836-07-16 03:34 G 42933759.58 42933759.65 42933759.72 0.2663 0.1987

Earth 112836-07-16 03:34 G 42933759.58 42933759.65 42933759.73 0.2657 0.1974 *

Jupiter 112840-09-23 22:46 G 42935290.28 42935290.45 42935290.63 0.0502 0.0048

Uranus 112841-09-08 16:32 G 42935640.14 42935640.19 42935640.26 0.0139 0.0131

Uranus 112841-12-05 23:29 G 42935728.37 42935728.48 42935728.60 0.0139 0.0106

Uranus 112842-03-04 06:13 G 42935816.62 42935816.76 42935816.92 0.0138 0.0080

Uranus 112842-05-31 13:25 G 42935904.89 42935905.06 42935905.23 0.0138 0.0054

Uranus 112842-08-27 20:22 G 42935993.17 42935993.35 42935993.53 0.0138 0.0029

Uranus 112842-11-24 03:20 G 42936081.46 42936081.64 42936081.83 0.0138 0.0003

Uranus 112843-02-20 10:17 G 42936169.75 42936169.93 42936170.12 0.0138 0.0023

Uranus 112843-05-19 17:15 G 42936258.05 42936258.22 42936258.40 0.0138 0.0049

Uranus 112843-08-16 00:27 G 42936346.37 42936346.52 42936346.68 0.0138 0.0075

Mars 112843-10-10 03:05 G 42936401.53 42936401.63 42936401.74 0.1802 0.0733

Uranus 112843-11-12 07:39 G 42936434.69 42936434.82 42936434.94 0.0138 0.0101

Uranus 112844-02-08 14:22 G 42936523.05 42936523.10 42936523.19 0.0138 0.0128

Jupiter 112846-03-02 16:32 G 42937276.09 42937276.19 42937276.30 0.0527 0.0306

Jupiter 112846-05-31 00:13 G 42937365.42 42937365.51 42937365.61 0.0524 0.0352

Saturn 112848-03-12 02:08 G 42938016.46 42938016.59 42938016.71 0.0268 0.0195

Saturn 112848-06-08 21:49 G 42938105.23 42938105.41 42938105.59 0.0268 0.0013

Neptune 112848-07-29 11:29 G 42938155.96 42938155.98 42938156.04 0.0088 0.0084

Saturn 112848-09-05 17:44 G 42938194.11 42938194.24 42938194.39 0.0268 0.0170

Neptune 112848-10-25 12:56 G 42938243.99 42938244.04 42938244.12 0.0088 0.0077

Neptune 112849-01-21 14:37 G 42938332.04 42938332.11 42938332.20 0.0088 0.0070

Neptune 112849-04-19 16:03 G 42938420.08 42938420.17 42938420.27 0.0088 0.0063

Neptune 112849-07-16 17:29 G 42938508.13 42938508.23 42938508.34 0.0088 0.0056

Neptune 112849-10-12 19:10 G 42938596.18 42938596.30 42938596.41 0.0088 0.0049

Neptune 112850-01-08 20:22 G 42938684.24 42938684.35 42938684.48 0.0088 0.0043

Neptune 112850-04-06 21:49 G 42938772.29 42938772.41 42938772.54 0.0088 0.0036

Neptune 112850-07-03 23:15 G 42938860.35 42938860.47 42938860.60 0.0088 0.0029

Neptune 112850-09-30 00:41 G 42938948.40 42938948.53 42938948.67 0.0088 0.0022

Neptune 112850-12-27 02:08 G 42939036.46 42939036.59 42939036.73 0.0088 0.0016

Neptune 112851-03-25 03:34 G 42939124.51 42939124.65 42939124.79 0.0088 0.0009

Neptune 112851-06-21 05:01 G 42939212.57 42939212.71 42939212.84 0.0088 0.0003

Neptune 112851-09-17 06:27 G 42939300.63 42939300.77 42939300.90 0.0088 0.0005

Neptune 112851-12-14 07:39 G 42939388.69 42939388.82 42939388.96 0.0088 0.0011

Neptune 112852-03-11 09:05 G 42939476.75 42939476.88 42939477.01 0.0088 0.0018

Neptune 112852-06-07 10:32 G 42939564.81 42939564.94 42939565.07 0.0088 0.0024

Jupiter 112852-07-12 21:05 G 42939600.22 42939600.38 42939600.55 0.0501 0.0149

Neptune 112852-09-03 11:44 G 42939652.87 42939652.99 42939653.12 0.0088 0.0031

Neptune 112852-11-30 12:56 G 42939740.93 42939741.04 42939741.17 0.0088 0.0038

Neptune 112853-02-26 14:37 G 42939828.99 42939829.11 42939829.22 0.0088 0.0044

Mars 112853-03-01 12:41 G 42939831.91 42939832.03 42939832.14 0.1811 0.0169

Neptune 112853-05-25 15:49 G 42939917.06 42939917.16 42939917.27 0.0088 0.0051

Neptune 112853-08-21 17:15 G 42940005.12 42940005.22 42940005.32 0.0088 0.0057

Neptune 112853-11-17 18:27 G 42940093.19 42940093.27 42940093.37 0.0088 0.0064

Neptune 112854-02-13 19:39 G 42940181.26 42940181.32 42940181.41 0.0088 0.0071

Mars 112854-03-29 15:05 G 42940224.96 42940225.13 42940225.29 0.1736 0.0345

Neptune 112854-05-12 21:05 G 42940269.33 42940269.38 42940269.45 0.0088 0.0077

Neptune 112854-08-08 22:17 G 42940357.41 42940357.43 42940357.49 0.0088 0.0084

Moon 112856-07-11 20:37 G 42941060.26 42941060.36 42941060.46 0.2663 0.1043

Earth 112856-07-11 21:05 G 42941060.28 42941060.38 42941060.49 0.2660 0.1003 *

Jupiter 112857-12-19 20:08 G 42941586.29 42941586.34 42941586.40 0.0528 0.0473

Jupiter 112858-03-19 04:17 G 42941675.56 42941675.68 42941675.80 0.0525 0.0193

Moon 112859-01-15 07:39 G 42941977.67 42941977.82 42941977.96 0.2673 0.0974

Earth 112859-01-15 09:20 G 42941977.74 42941977.89 42941978.04 0.2673 0.0716 *

Mars 112862-07-22 22:03 G 42943262.33 42943262.42 42943262.52 0.1819 0.1070

Saturn 112863-04-08 16:17 G 42943522.07 42943522.18 42943522.29 0.0292 0.0163

Saturn 112863-07-06 05:01 G 42943610.58 42943610.71 42943610.84 0.0292 0.0009

Mars 112863-08-19 13:10 G 42943654.92 42943655.05 42943655.18 0.1727 0.1081

Saturn 112863-10-02 17:29 G 42943699.13 42943699.23 42943699.34 0.0292 0.0181

Jupiter 112864-04-30 19:53 G 42943910.20 42943910.33 42943910.46 0.0501 0.0338

Jupiter 112864-07-30 01:39 G 42944000.51 42944000.57 42944000.64 0.0504 0.0464

Venus 112866-05-25 15:20 G 42944665.06 42944665.14 42944665.22 0.3695 0.2368

Moon 112869-07-14 14:51 G 42945811.01 42945811.12 42945811.23 0.2665 0.0617

Earth 112869-07-14 14:51 G 42945811.01 42945811.12 42945811.23 0.2658 0.0671 *

Jupiter 112870-01-05 07:53 G 42945985.70 42945985.83 42945985.96 0.0525 0.0028

Venus 112871-12-09 07:39 G 42946688.72 42946688.82 42946688.93 0.3691 0.0629

Mars 112873-11-17 17:29 G 42947398.20 42947398.23 42947398.26 0.1793 0.1704

Jupiter 112876-05-17 23:58 G 42948310.35 42948310.50 42948310.65 0.0503 0.0264

Venus 112877-06-23 23:58 G 42948712.40 42948712.50 42948712.60 0.3688 0.1082

Saturn 112877-07-30 01:25 G 42948748.50 42948748.56 42948748.64 0.0268 0.0247

Saturn 112877-10-26 21:20 G 42948837.22 42948837.39 42948837.57 0.0268 0.0065

Saturn 112878-01-23 17:15 G 42948926.06 42948926.22 42948926.39 0.0268 0.0118

Venus 112879-01-08 08:51 G 42949275.76 42949275.87 42949275.98 0.3682 0.2413

Jupiter 112881-10-24 11:01 G 42950295.83 42950295.96 42950296.08 0.0526 0.0151

Jupiter 112882-01-21 18:13 G 42950385.23 42950385.26 42950385.30 0.0523 0.0497

Earth 112882-07-17 08:22 G 42950561.80 42950561.85 42950561.91 0.2657 0.2315

Moon 112882-07-17 09:05 G 42950561.85 42950561.88 42950561.92 0.2658 0.2495 *

Venus 112883-01-07 16:17 G 42950736.11 42950736.18 42950736.25 0.3684 0.2736

Mars 112883-04-10 03:05 G 42950828.53 42950828.63 42950828.73 0.1802 0.0834

Venus 112884-07-24 14:51 G 42951300.00 42951300.12 42951300.25 0.3687 0.1944

Uranus 112884-09-12 22:17 G 42951350.40 42951350.43 42951350.46 0.0139 0.0135

Uranus 112884-12-10 01:53 G 42951438.51 42951438.58 42951438.66 0.0139 0.0116

Uranus 112885-03-08 05:44 G 42951526.64 42951526.74 42951526.84 0.0139 0.0096

Uranus 112885-06-04 09:34 G 42951614.78 42951614.90 42951615.01 0.0139 0.0076

Uranus 112885-08-31 13:10 G 42951702.93 42951703.05 42951703.18 0.0140 0.0056

Uranus 112885-11-27 16:46 G 42951791.07 42951791.20 42951791.34 0.0140 0.0036

Uranus 112886-02-23 20:37 G 42951879.22 42951879.36 42951879.49 0.0140 0.0016

Uranus 112886-05-23 00:13 G 42951967.37 42951967.51 42951967.64 0.0140 0.0004

Uranus 112886-08-19 03:49 G 42952055.52 42952055.66 42952055.79 0.0140 0.0023

Uranus 112886-11-15 07:25 G 42952143.68 42952143.81 42952143.94 0.0140 0.0043

Uranus 112887-02-11 10:46 G 42952231.84 42952231.95 42952232.08 0.0140 0.0063

Uranus 112887-05-10 14:37 G 42952320.00 42952320.11 42952320.22 0.0140 0.0082

Uranus 112887-08-06 18:13 G 42952408.17 42952408.26 42952408.35 0.0140 0.0102

Uranus 112887-11-02 21:34 G 42952496.34 42952496.40 42952496.47 0.0140 0.0121

Jupiter 112888-03-05 21:49 G 42952620.23 42952620.41 42952620.59 0.0502 0.0061

Moon 112889-07-10 07:39 G 42953111.78 42953111.82 42953111.86 0.2665 0.2436

Earth 112889-07-10 08:08 G 42953111.79 42953111.84 42953111.89 0.2661 0.2343 *

Saturn 112892-08-25 19:39 G 42954254.22 42954254.32 42954254.42 0.0291 0.0195

Mars 112892-08-30 12:41 G 42954258.91 42954259.03 42954259.14 0.1810 0.0057

Saturn 112892-11-22 08:22 G 42954342.72 42954342.85 42954342.99 0.0291 0.0022

Saturn 112893-02-18 20:51 G 42954431.26 42954431.37 42954431.49 0.0292 0.0150

Jupiter 112893-08-12 14:37 G 42954606.00 42954606.11 42954606.21 0.0527 0.0318

Mars 112893-09-27 15:49 G 42954652.00 42954652.16 42954652.32 0.1736 0.0522

Jupiter 112893-11-09 22:17 G 42954695.33 42954695.43 42954695.53 0.0524 0.0341

Jupiter 112899-12-23 18:41 G 42956930.12 42956930.28 42956930.45 0.0501 0.0156

Mars 112902-01-21 22:03 G 42957689.32 42957689.42 42957689.52 0.1819 0.0967

Earth 112902-07-14 01:53 G 42957862.48 42957862.58 42957862.69 0.2660 0.0655

Moon 112902-07-14 02:08 G 42957862.49 42957862.59 42957862.70 0.2666 0.0629 *

Mars 112903-02-18 13:53 G 42958081.94 42958082.08 42958082.22 0.1727 0.0906

Pluto 112903-05-25 17:29 G 42958178.17 42958178.23 42958178.33 0.0060 0.0055

Pluto 112903-08-21 18:41 G 42958266.18 42958266.28 42958266.44 0.0060 0.0046

Pluto 112903-11-17 20:37 G 42958354.21 42958354.36 42958354.52 0.0060 0.0036

Pluto 112904-02-13 21:49 G 42958442.25 42958442.41 42958442.60 0.0060 0.0027

Pluto 112904-05-11 23:15 G 42958530.29 42958530.47 42958530.67 0.0060 0.0018

Pluto 112904-08-08 00:56 G 42958618.34 42958618.54 42958618.74 0.0060 0.0008

Pluto 112904-11-04 02:22 G 42958706.40 42958706.60 42958706.80 0.0060 0.0002

Moon 112905-01-16 15:49 G 42958780.00 42958780.16 42958780.31 0.2680 0.0169

Earth 112905-01-16 15:49 G 42958780.01 42958780.16 42958780.32 0.2673 0.0037 *

Pluto 112905-01-31 03:34 G 42958794.46 42958794.65 42958794.85 0.0060 0.0011

Pluto 112905-04-29 04:46 G 42958882.53 42958882.70 42958882.90 0.0060 0.0021

Jupiter 112905-06-01 18:27 G 42958916.22 42958916.27 42958916.32 0.0528 0.0479

Pluto 112905-07-26 06:13 G 42958970.60 42958970.76 42958970.94 0.0060 0.0030

Jupiter 112905-08-30 02:37 G 42959005.49 42959005.61 42959005.73 0.0525 0.0189

Pluto 112905-10-22 07:53 G 42959058.68 42959058.83 42959058.98 0.0060 0.0040

Pluto 112906-01-18 08:51 G 42959146.78 42959146.87 42959147.00 0.0060 0.0050

Pluto 112906-04-16 10:03 G 42959234.91 42959234.92 42959234.99 0.0060 0.0059

Saturn 112907-03-16 22:32 G 42959569.27 42959569.44 42959569.61 0.0268 0.0104

Saturn 112907-06-13 18:13 G 42959658.09 42959658.26 42959658.44 0.0268 0.0079

Saturn 112907-09-10 14:22 G 42959747.07 42959747.10 42959747.14 0.0268 0.0263

Jupiter 112911-10-12 17:29 G 42961240.10 42961240.23 42961240.35 0.0501 0.0346

Jupiter 112912-01-10 23:01 G 42961330.39 42961330.46 42961330.54 0.0504 0.0453

Earth 112915-07-16 19:39 G 42962613.22 42962613.32 42962613.42 0.2658 0.1017

Moon 112915-07-16 20:22 G 42962613.25 42962613.35 42962613.45 0.2659 0.1158 *

Venus 112917-06-16 20:22 G 42963314.33 42963314.35 42963314.38 0.3698 0.3567

Jupiter 112917-06-18 06:27 G 42963315.64 42963315.77 42963315.90 0.0526 0.0031

Saturn 112922-01-13 20:22 G 42964986.29 42964986.35 42964986.41 0.0291 0.0259

Saturn 112922-04-12 09:20 G 42965074.76 42965074.89 42965075.02 0.0292 0.0086

Saturn 112922-07-09 21:49 G 42965163.29 42965163.41 42965163.54 0.0292 0.0087

Saturn 112922-10-06 10:17 G 42965251.87 42965251.93 42965251.99 0.0292 0.0257

Mars 112922-10-10 03:05 G 42965255.53 42965255.63 42965255.73 0.1802 0.0951

Venus 112922-12-31 12:56 G 42965337.95 42965338.04 42965338.13 0.3694 0.1788

Jupiter 112923-10-29 21:20 G 42965640.24 42965640.39 42965640.55 0.0503 0.0255

Uranus 112925-09-29 23:58 G 42966341.43 42966341.50 42966341.59 0.0139 0.0124

Uranus 112925-12-27 06:41 G 42966429.67 42966429.78 42966429.92 0.0139 0.0099

Uranus 112926-03-25 13:53 G 42966517.93 42966518.08 42966518.24 0.0138 0.0073

Uranus 112926-06-21 20:37 G 42966606.20 42966606.36 42966606.54 0.0138 0.0047

Uranus 112926-09-18 03:49 G 42966694.48 42966694.66 42966694.84 0.0138 0.0022

Uranus 112926-12-15 10:46 G 42966782.76 42966782.95 42966783.13 0.0138 0.0005

Uranus 112927-03-13 17:44 G 42966871.06 42966871.24 42966871.42 0.0138 0.0030

Uranus 112927-06-10 00:41 G 42966959.36 42966959.53 42966959.70 0.0138 0.0056

Uranus 112927-09-06 07:39 G 42967047.68 42967047.82 42967047.97 0.0138 0.0082

Uranus 112927-12-03 14:51 G 42967136.01 42967136.12 42967136.24 0.0138 0.0108

Uranus 112928-02-29 22:03 G 42967224.38 42967224.42 42967224.46 0.0138 0.0134

Venus 112928-07-16 05:29 G 42967361.62 42967361.73 42967361.83 0.3690 0.0156

Jupiter 112929-04-06 10:03 G 42967625.80 42967625.92 42967626.05 0.0526 0.0138

Jupiter 112929-07-04 17:29 G 42967715.21 42967715.23 42967715.26 0.0523 0.0510

Mars 112932-03-01 12:41 G 42968685.91 42968686.03 42968686.14 0.1810 0.0066

Neptune 112932-09-25 15:05 G 42968894.07 42968894.13 42968894.21 0.0089 0.0083

Neptune 112932-12-22 18:13 G 42968982.17 42968982.26 42968982.38 0.0089 0.0074

Neptune 112933-03-20 21:49 G 42969070.29 42969070.41 42969070.54 0.0089 0.0064

Mars 112933-03-29 16:17 G 42969079.03 42969079.18 42969079.34 0.1736 0.0684

Neptune 112933-06-17 00:56 G 42969158.41 42969158.54 42969158.70 0.0089 0.0055

Neptune 112933-09-13 04:32 G 42969246.53 42969246.69 42969246.85 0.0089 0.0045

Neptune 112933-12-10 07:39 G 42969334.66 42969334.82 42969335.00 0.0089 0.0036

Venus 112934-01-29 21:49 G 42969385.31 42969385.41 42969385.50 0.3687 0.1638

Neptune 112934-03-08 11:15 G 42969422.79 42969422.97 42969423.15 0.0089 0.0026

Neptune 112934-06-04 14:37 G 42969510.93 42969511.11 42969511.30 0.0089 0.0016

Neptune 112934-08-31 17:58 G 42969599.07 42969599.25 42969599.44 0.0089 0.0007

Neptune 112934-11-27 21:20 G 42969687.21 42969687.39 42969687.58 0.0089 0.0004

Neptune 112935-02-24 00:41 G 42969775.35 42969775.53 42969775.72 0.0089 0.0013

Neptune 112935-05-23 04:17 G 42969863.50 42969863.68 42969863.86 0.0089 0.0023

Earth 112935-07-12 12:56 G 42969913.97 42969914.04 42969914.12 0.2661 0.1984

Moon 112935-07-12 13:25 G 42969913.98 42969914.06 42969914.14 0.2667 0.1861 *

Venus 112935-08-16 10:17 G 42969948.78 42969948.93 42969949.07 0.3683 0.1088

Jupiter 112935-08-17 19:53 G 42969950.16 42969950.33 42969950.51 0.0502 0.0061

Neptune 112935-08-19 07:25 G 42969951.64 42969951.81 42969952.00 0.0089 0.0033

Neptune 112935-11-15 10:46 G 42970039.80 42970039.95 42970040.13 0.0089 0.0043

Neptune 112936-02-11 14:08 G 42970127.95 42970128.09 42970128.26 0.0089 0.0052

Neptune 112936-05-09 17:58 G 42970216.11 42970216.25 42970216.39 0.0089 0.0062

Saturn 112936-08-02 21:20 G 42970301.25 42970301.39 42970301.54 0.0268 0.0161

Neptune 112936-08-05 21:05 G 42970304.28 42970304.38 42970304.51 0.0089 0.0072

Saturn 112936-10-30 17:15 G 42970390.04 42970390.22 42970390.40 0.0268 0.0021

Neptune 112936-11-02 00:41 G 42970392.46 42970392.53 42970392.62 0.0089 0.0082

Saturn 112937-01-27 13:10 G 42970478.94 42970479.05 42970479.17 0.0268 0.0205

Venus 112939-08-15 13:53 G 42971409.03 42971409.08 42971409.12 0.3683 0.3272

Jupiter 112941-01-23 13:10 G 42971935.94 42971936.05 42971936.15 0.0527 0.0317

Venus 112941-03-01 16:17 G 42971973.12 42971973.18 42971973.24 0.3688 0.3358

Jupiter 112941-04-22 20:51 G 42972025.27 42972025.37 42972025.47 0.0524 0.0341

Mars 112941-07-22 22:03 G 42972116.32 42972116.42 42972116.52 0.1819 0.0858

Mars 112942-08-19 14:37 G 42972508.96 42972509.11 42972509.27 0.1728 0.0727

Jupiter 112947-06-05 17:58 G 42974260.08 42974260.25 42974260.42 0.0501 0.0138

Earth 112948-07-14 06:41 G 42974664.67 42974664.78 42974664.89 0.2659 0.0306

Moon 112948-07-14 07:25 G 42974664.70 42974664.81 42974664.92 0.2660 0.0242 *

Mars 112950-12-13 07:25 G 42975546.79 42975546.81 42975546.83 0.1827 0.1788

Earth 112951-01-17 22:17 G 42975582.28 42975582.43 42975582.58 0.2674 0.0665

Moon 112951-01-17 23:58 G 42975582.35 42975582.50 42975582.64 0.2677 0.0921 *

Saturn 112951-08-30 12:13 G 42975806.89 42975807.01 42975807.13 0.0291 0.0123

Saturn 112951-11-27 00:56 G 42975895.41 42975895.54 42975895.67 0.0292 0.0050

Saturn 112952-02-23 13:25 G 42975983.97 42975984.06 42975984.15 0.0292 0.0220

Jupiter 112952-11-11 16:32 G 42976246.14 42976246.19 42976246.24 0.0528 0.0486

Jupiter 112953-02-09 00:41 G 42976335.41 42976335.53 42976335.65 0.0525 0.0182

Jupiter 112959-03-24 15:20 G 42978570.01 42978570.14 42978570.26 0.0500 0.0349

Jupiter 112959-06-22 20:51 G 42978660.29 42978660.37 42978660.45 0.0503 0.0448

Earth 112961-07-17 00:27 G 42979415.43 42979415.52 42979415.61 0.2658 0.1363

Moon 112961-07-17 00:41 G 42979415.44 42979415.53 42979415.62 0.2651 0.1469 *

Mars 112962-04-10 03:05 G 42979682.53 42979682.63 42979682.72 0.1801 0.1049

Jupiter 112964-11-28 05:01 G 42980645.57 42980645.71 42980645.84 0.0526 0.0031

Saturn 112965-12-20 22:32 G 42981033.33 42981033.44 42981033.57 0.0268 0.0198

Saturn 112966-03-19 18:27 G 42981122.09 42981122.27 42981122.45 0.0268 0.0018

Saturn 112966-06-16 14:08 G 42981210.96 42981211.09 42981211.24 0.0268 0.0166

Uranus 112968-10-04 05:15 G 42982051.68 42982051.72 42982051.77 0.0139 0.0131

Uranus 112968-12-31 09:05 G 42982139.80 42982139.88 42982139.96 0.0139 0.0111

Uranus 112969-03-29 12:41 G 42982227.93 42982228.03 42982228.14 0.0139 0.0092

Uranus 112969-06-25 16:32 G 42982316.07 42982316.19 42982316.31 0.0140 0.0072

Uranus 112969-09-21 20:08 G 42982404.22 42982404.34 42982404.47 0.0140 0.0052

Uranus 112969-12-18 23:58 G 42982492.37 42982492.50 42982492.63 0.0140 0.0032

Uranus 112970-03-17 03:34 G 42982580.52 42982580.65 42982580.79 0.0140 0.0012

Uranus 112970-06-13 07:10 G 42982668.67 42982668.80 42982668.94 0.0140 0.0009

Uranus 112970-09-09 10:46 G 42982756.82 42982756.95 42982757.09 0.0140 0.0028

Uranus 112970-12-06 14:22 G 42982844.98 42982845.10 42982845.23 0.0140 0.0047

Uranus 112971-03-04 17:58 G 42982933.14 42982933.25 42982933.37 0.0140 0.0067

Jupiter 112971-04-10 18:56 G 42982970.14 42982970.29 42982970.45 0.0503 0.0249

Uranus 112971-05-31 21:34 G 42983021.30 42983021.40 42983021.51 0.0140 0.0086

Uranus 112971-08-28 01:10 G 42983109.47 42983109.55 42983109.64 0.0140 0.0106

Mars 112971-08-31 12:27 G 42983112.91 42983113.02 42983113.14 0.1810 0.0175

Uranus 112971-11-24 04:46 G 42983197.64 42983197.70 42983197.76 0.0140 0.0125

Mars 112972-09-27 17:15 G 42983506.08 42983506.22 42983506.37 0.1737 0.0879

Venus 112974-01-21 18:13 G 42983987.20 42983987.26 42983987.32 0.3697 0.2975

Jupiter 112976-09-16 08:51 G 42984955.74 42984955.87 42984956.00 0.0527 0.0133

Jupiter 112976-12-14 16:17 G 42985045.16 42985045.18 42985045.20 0.0523 0.0514

Venus 112979-08-07 10:46 G 42986010.85 42986010.95 42986011.05 0.3693 0.1216

Saturn 112981-01-16 12:41 G 42986538.93 42986539.03 42986539.14 0.0291 0.0189

Mars 112981-01-20 22:03 G 42986543.32 42986543.42 42986543.53 0.1818 0.0740

Saturn 112981-04-15 01:39 G 42986627.43 42986627.57 42986627.70 0.0292 0.0018

Saturn 112981-07-12 14:08 G 42986715.98 42986716.09 42986716.20 0.0292 0.0155

Earth 112981-07-12 17:58 G 42986716.16 42986716.25 42986716.33 0.2661 0.1629 *

Moon 112981-07-12 18:41 G 42986716.19 42986716.28 42986716.37 0.2660 0.1521 *

Mars 112982-02-17 15:20 G 42986935.99 42986936.14 42986936.30 0.1728 0.0554

Jupiter 112983-01-27 17:29 G 42987280.05 42987280.23 42987280.41 0.0502 0.0055

Earth 112984-01-15 22:32 G 42987633.35 42987633.44 42987633.53 0.2672 0.2151

Moon 112984-01-16 00:13 G 42987633.41 42987633.51 42987633.61 0.2673 0.2006 *

Venus 112985-02-20 03:05 G 42988034.53 42988034.63 42988034.73 0.3690 0.0504

Jupiter 112988-07-05 12:27 G 42989265.91 42989266.02 42989266.13 0.0527 0.0300

Jupiter 112988-10-02 20:08 G 42989355.25 42989355.34 42989355.43 0.0524 0.0357

Mars 112990-06-13 07:25 G 42989973.76 42989973.81 42989973.85 0.1827 0.1684

Venus 112990-09-05 19:25 G 42990058.22 42990058.31 42990058.39 0.3686 0.2178

Venus 112992-03-22 11:29 G 42990621.83 42990621.98 42990622.13 0.3685 0.0260

Earth 112994-07-15 11:29 G 42991466.87 42991466.98 42991467.10 0.2659 0.0122

Moon 112994-07-15 11:44 G 42991466.88 42991466.99 42991467.10 0.2653 0.0104 *

Jupiter 112994-11-15 16:17 G 42991590.01 42991590.18 42991590.35 0.0501 0.0135

Saturn 112995-05-09 20:51 G 42991765.34 42991765.37 42991765.42 0.0268 0.0261

Saturn 112995-08-06 16:46 G 42991854.02 42991854.20 42991854.37 0.0268 0.0081

Saturn 112995-11-03 12:41 G 42991942.86 42991943.03 42991943.19 0.0268 0.0102

Earth 112997-01-18 05:01 G 42992384.57 42992384.71 42992384.84 0.2674 0.1353

Moon 112997-01-18 05:58 G 42992384.63 42992384.75 42992384.88 0.2670 0.1631 *

Pluto 112999-05-16 08:22 G 42993232.78 42993232.85 42993232.93 0.0085 0.0068

Pluto 112999-08-12 09:34 G 42993320.80 42993320.90 42993321.01 0.0085 0.0050

Pluto 112999-11-08 10:46 G 42993408.83 42993408.95 42993409.08 0.0085 0.0032

Pluto 113000-02-04 12:13 G 42993496.88 42993497.01 42993497.14 0.0085 0.0014

Jupiter 113000-04-24 15:20 G 42993576.09 42993576.14 42993576.19 0.0528 0.0481

Pluto 113000-05-03 13:10 G 42993584.92 42993585.05 42993585.19 0.0084 0.0005

Jupiter 113000-07-22 23:29 G 42993665.36 42993665.48 42993665.60 0.0525 0.0186

Pluto 113000-07-30 14:22 G 42993672.98 42993673.10 42993673.23 0.0084 0.0022

Pluto 113000-10-26 15:34 G 42993761.04 42993761.15 42993761.27 0.0084 0.0040

114TH MILLENNIUM CE

This is a list of transits of Mercury in the 114th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Pluto 113001-01-22 16:46 G 42993849.11 42993849.20 42993849.30 0.0084 0.0057

Pluto 113001-04-20 17:44 G 42993937.20 42993937.24 42993937.31 0.0084 0.0075

Mars 113001-10-10 03:05 G 42994109.54 42994109.63 42994109.71 0.1801 0.1160

Jupiter 113006-09-04 14:37 G 42995899.98 42995900.11 42995900.24 0.0501 0.0328

Jupiter 113006-12-03 20:22 G 42995990.29 42995990.35 42995990.41 0.0504 0.0471

Moon 113007-07-19 04:46 G 42996217.61 42996217.70 42996217.79 0.2653 0.1593

Earth 113007-07-19 05:15 G 42996217.64 42996217.72 42996217.80 0.2658 0.1720 *

Uranus 113009-10-21 07:53 G 42997042.73 42997042.83 42997042.93 0.0139 0.0115

Uranus 113010-01-17 14:37 G 42997130.98 42997131.11 42997131.26 0.0139 0.0090

Uranus 113010-04-15 21:34 G 42997219.24 42997219.40 42997219.56 0.0138 0.0064

Saturn 113010-06-06 15:20 G 42997271.06 42997271.14 42997271.22 0.0291 0.0231

Uranus 113010-07-13 04:32 G 42997307.51 42997307.69 42997307.87 0.0138 0.0039

Saturn 113010-09-03 04:03 G 42997359.54 42997359.67 42997359.80 0.0292 0.0058

Uranus 113010-10-09 11:29 G 42997395.80 42997395.98 42997396.16 0.0138 0.0013

Saturn 113010-11-30 16:46 G 42997448.08 42997448.20 42997448.32 0.0292 0.0114

Uranus 113011-01-05 18:27 G 42997484.08 42997484.27 42997484.45 0.0138 0.0013

Saturn 113011-02-27 05:15 G 42997536.69 42997536.72 42997536.75 0.0292 0.0284

Mars 113011-03-02 12:41 G 42997539.91 42997540.03 42997540.14 0.1810 0.0283

Uranus 113011-04-04 01:25 G 42997572.38 42997572.56 42997572.74 0.0138 0.0039

Uranus 113011-07-01 08:22 G 42997660.69 42997660.85 42997661.02 0.0138 0.0064

Uranus 113011-09-27 15:20 G 42997749.01 42997749.14 42997749.28 0.0138 0.0090

Uranus 113011-12-24 22:32 G 42997837.34 42997837.44 42997837.54 0.0138 0.0116

Mars 113012-03-29 18:13 G 42997933.13 42997933.26 42997933.39 0.1737 0.1067

Jupiter 113012-05-11 03:20 G 42997975.51 42997975.64 42997975.77 0.0526 0.0026

Neptune 113013-01-29 09:49 G 42998238.91 42998238.91 42998238.93 0.0088 0.0087

Neptune 113013-04-27 11:29 G 42998326.93 42998326.98 42998327.03 0.0088 0.0080

Neptune 113013-07-24 12:41 G 42998414.97 42998415.03 42998415.12 0.0088 0.0074

Neptune 113013-10-20 14:08 G 42998503.01 42998503.09 42998503.19 0.0088 0.0067

Neptune 113014-01-16 15:34 G 42998591.06 42998591.15 42998591.26 0.0088 0.0060

Neptune 113014-04-14 17:15 G 42998679.11 42998679.22 42998679.33 0.0088 0.0053

Neptune 113014-07-11 18:41 G 42998767.17 42998767.28 42998767.40 0.0088 0.0046

Neptune 113014-10-07 20:08 G 42998855.22 42998855.34 42998855.46 0.0088 0.0039

Neptune 113015-01-03 21:20 G 42998943.27 42998943.39 42998943.53 0.0088 0.0033

Neptune 113015-04-01 23:01 G 42999031.33 42999031.46 42999031.59 0.0088 0.0026

Neptune 113015-06-29 00:27 G 42999119.39 42999119.52 42999119.65 0.0088 0.0019

Neptune 113015-09-25 01:53 G 42999207.44 42999207.58 42999207.71 0.0088 0.0012

Neptune 113015-12-22 03:20 G 42999295.50 42999295.64 42999295.77 0.0088 0.0006

Neptune 113016-03-19 04:32 G 42999383.56 42999383.69 42999383.83 0.0088 0.0003

Neptune 113016-06-15 05:58 G 42999471.62 42999471.75 42999471.89 0.0088 0.0008

Neptune 113016-09-11 07:25 G 42999559.68 42999559.81 42999559.94 0.0088 0.0014

Neptune 113016-12-08 08:51 G 42999647.74 42999647.87 42999648.00 0.0088 0.0021

Neptune 113017-03-06 10:03 G 42999735.80 42999735.92 42999736.05 0.0088 0.0028

Neptune 113017-06-02 11:29 G 42999823.86 42999823.98 42999824.11 0.0088 0.0034

Neptune 113017-08-29 12:41 G 42999911.92 42999912.03 42999912.16 0.0088 0.0041

Neptune 113017-11-25 14:08 G 42999999.98 43000000.09 43000000.21 0.0088 0.0048

Neptune 113018-02-21 15:34 G 43000088.05 43000088.15 43000088.26 0.0088 0.0054

Neptune 113018-05-20 16:46 G 43000176.11 43000176.20 43000176.31 0.0088 0.0061

Neptune 113018-08-16 18:13 G 43000264.18 43000264.26 43000264.35 0.0088 0.0067

Jupiter 113018-09-21 17:01 G 43000300.06 43000300.21 43000300.37 0.0503 0.0249

Neptune 113018-11-12 19:25 G 43000352.25 43000352.31 43000352.40 0.0088 0.0074

Neptune 113019-02-08 20:51 G 43000440.33 43000440.37 43000440.43 0.0088 0.0080

Neptune 113019-05-07 22:03 G 43000528.42 43000528.42 43000528.46 0.0088 0.0087

Mars 113020-07-22 22:03 G 43000970.31 43000970.42 43000970.52 0.1818 0.0643

Mars 113021-08-19 16:17 G 43001363.01 43001363.18 43001363.34 0.1728 0.0382

Jupiter 113024-02-28 07:25 G 43002285.68 43002285.81 43002285.93 0.0527 0.0134

Jupiter 113024-05-27 14:51 G 43002375.10 43002375.12 43002375.14 0.0524 0.0516

Saturn 113024-12-24 17:44 G 43002586.08 43002586.24 43002586.41 0.0268 0.0118

Saturn 113025-03-23 13:39 G 43002674.89 43002675.07 43002675.25 0.0268 0.0064

Saturn 113025-06-20 09:20 G 43002763.84 43002763.89 43002763.97 0.0268 0.0248

Moon 113027-07-14 22:46 G 43003518.35 43003518.45 43003518.55 0.2654 0.1310

Earth 113027-07-14 22:46 G 43003518.35 43003518.45 43003518.54 0.2661 0.1271 *

Mars 113029-12-13 07:25 G 43004400.75 43004400.81 43004400.86 0.1827 0.1569

Earth 113030-01-17 05:01 G 43004435.58 43004435.71 43004435.84 0.2672 0.1465

Moon 113030-01-17 05:58 G 43004435.61 43004435.75 43004435.88 0.2667 0.1314 *

Jupiter 113030-07-10 15:20 G 43004609.97 43004610.14 43004610.32 0.0502 0.0054

Venus 113030-08-29 15:49 G 43004660.08 43004660.16 43004660.24 0.3696 0.2394

Jupiter 113035-12-17 11:15 G 43006595.86 43006595.97 43006596.08 0.0528 0.0295

Venus 113036-03-14 08:22 G 43006683.75 43006683.85 43006683.95 0.3692 0.0649

Jupiter 113036-03-15 18:56 G 43006685.20 43006685.29 43006685.39 0.0524 0.0363

Saturn 113040-01-21 04:46 G 43008091.58 43008091.70 43008091.82 0.0291 0.0124

Saturn 113040-04-18 17:15 G 43008180.09 43008180.22 43008180.36 0.0292 0.0049

Saturn 113040-07-16 05:44 G 43008268.66 43008268.74 43008268.83 0.0292 0.0219

Moon 113040-07-16 15:49 G 43008269.05 43008269.16 43008269.27 0.2655 0.0361

Earth 113040-07-16 16:32 G 43008269.08 43008269.19 43008269.30 0.2659 0.0424 *

Mars 113041-04-10 03:05 G 43008536.55 43008536.63 43008536.71 0.1801 0.1271

Venus 113041-09-28 00:41 G 43008707.43 43008707.53 43008707.63 0.3689 0.1059

Jupiter 113042-04-28 14:08 G 43008919.92 43008920.09 43008920.26 0.0501 0.0138

Moon 113043-01-20 10:32 G 43009186.82 43009186.94 43009187.05 0.2669 0.1856

Earth 113043-01-20 11:29 G 43009186.88 43009186.98 43009187.08 0.2675 0.2050 *

Venus 113043-04-14 06:56 G 43009270.69 43009270.79 43009270.89 0.3681 0.2681

Venus 113047-04-13 17:01 G 43010731.14 43010731.21 43010731.28 0.3685 0.2708

Jupiter 113047-10-05 14:51 G 43010906.06 43010906.12 43010906.18 0.0528 0.0462

Jupiter 113048-01-02 23:01 G 43010995.34 43010995.46 43010995.58 0.0525 0.0205

Venus 113048-10-28 12:41 G 43011294.90 43011295.03 43011295.16 0.3686 0.1595

Mars 113050-08-31 12:41 G 43011966.91 43011967.03 43011967.14 0.1809 0.0391

Mars 113051-09-28 18:41 G 43012360.16 43012360.28 43012360.40 0.1737 0.1226

Uranus 113052-10-25 12:27 G 43012752.97 43012753.02 43012753.08 0.0139 0.0127

Uranus 113053-01-21 16:17 G 43012841.09 43012841.18 43012841.27 0.0139 0.0106

Uranus 113053-04-19 19:53 G 43012929.23 43012929.33 43012929.45 0.0140 0.0087

Uranus 113053-07-16 23:44 G 43013017.37 43013017.49 43013017.61 0.0140 0.0067

Moon 113053-07-19 09:34 G 43013019.83 43013019.90 43013019.98 0.2662 0.1928

Earth 113053-07-19 10:03 G 43013019.86 43013019.92 43013019.99 0.2657 0.2068 *

Uranus 113053-10-13 03:34 G 43013105.52 43013105.65 43013105.78 0.0140 0.0047

Uranus 113054-01-09 07:10 G 43013193.67 43013193.80 43013193.93 0.0140 0.0027

Jupiter 113054-02-14 13:10 G 43013229.92 43013230.05 43013230.18 0.0501 0.0323

Uranus 113054-04-07 10:46 G 43013281.82 43013281.95 43013282.09 0.0140 0.0008

Saturn 113054-05-13 15:20 G 43013318.02 43013318.14 43013318.28 0.0268 0.0187

Jupiter 113054-05-15 18:56 G 43013320.23 43013320.29 43013320.34 0.0504 0.0476

Uranus 113054-07-04 14:37 G 43013369.97 43013370.11 43013370.24 0.0140 0.0013

Saturn 113054-08-10 11:15 G 43013406.79 43013406.97 43013407.16 0.0268 0.0008

Uranus 113054-09-30 18:13 G 43013458.12 43013458.26 43013458.39 0.0140 0.0032

Saturn 113054-11-07 07:10 G 43013495.67 43013495.80 43013495.94 0.0268 0.0179

Uranus 113054-12-27 21:34 G 43013546.28 43013546.40 43013546.53 0.0140 0.0052

Uranus 113055-03-26 01:25 G 43013634.44 43013634.56 43013634.67 0.0140 0.0072

Uranus 113055-06-22 04:46 G 43013722.61 43013722.70 43013722.81 0.0140 0.0091

Uranus 113055-09-18 08:37 G 43013810.78 43013810.86 43013810.94 0.0140 0.0111

Uranus 113055-12-15 11:58 G 43013898.96 43013899.00 43013899.05 0.0140 0.0130

Jupiter 113059-10-22 02:08 G 43015305.46 43015305.59 43015305.73 0.0526 0.0037

Mars 113060-01-21 22:03 G 43015397.31 43015397.42 43015397.53 0.1818 0.0529

Moon 113060-07-12 09:34 G 43015569.89 43015569.90 43015569.91 0.2655 0.2640

Earth 113060-07-12 09:34 G 43015569.89 43015569.90 43015569.92 0.2662 0.2619 *

Mars 113061-02-17 17:01 G 43015790.05 43015790.21 43015790.38 0.1729 0.0195

Jupiter 113066-03-03 16:46 G 43017630.05 43017630.20 43017630.35 0.0503 0.0274

Saturn 113069-06-09 06:41 G 43018823.68 43018823.78 43018823.89 0.0291 0.0172

Mars 113069-06-13 07:10 G 43018827.74 43018827.80 43018827.87 0.1826 0.1464

Saturn 113069-09-05 19:39 G 43018912.18 43018912.32 43018912.45 0.0292 0.0009

Saturn 113069-12-03 08:08 G 43019000.73 43019000.84 43019000.95 0.0292 0.0172

Mars 113070-07-10 15:34 G 43019220.09 43019220.15 43019220.21 0.1720 0.1582

Jupiter 113071-08-10 05:58 G 43019615.62 43019615.75 43019615.88 0.0527 0.0131

Jupiter 113071-11-07 13:25 G 43019705.04 43019705.06 43019705.08 0.0523 0.0517

Moon 113073-07-15 02:51 G 43020320.51 43020320.62 43020320.72 0.2659 0.1021

Earth 113073-07-15 03:34 G 43020320.54 43020320.65 43020320.75 0.2660 0.0918 *

Moon 113076-01-18 10:17 G 43021237.78 43021237.93 43021238.07 0.2669 0.0888

Earth 113076-01-18 11:29 G 43021237.83 43021237.98 43021238.13 0.2673 0.0788 *

Jupiter 113077-12-20 13:53 G 43021939.90 43021940.08 43021940.25 0.0502 0.0058

Mars 113080-10-09 02:51 G 43022963.55 43022963.62 43022963.70 0.1801 0.1376

Venus 113081-09-19 21:05 G 43023309.35 43023309.38 43023309.40 0.3698 0.3593

Jupiter 113083-05-29 09:49 G 43023925.80 43023925.91 43023926.02 0.0528 0.0294

Jupiter 113083-08-26 17:44 G 43024015.14 43024015.24 43024015.33 0.0525 0.0366

Saturn 113083-09-30 16:32 G 43024050.10 43024050.19 43024050.29 0.0269 0.0224

Saturn 113083-12-28 12:13 G 43024138.84 43024139.01 43024139.19 0.0268 0.0044

Saturn 113084-03-26 08:08 G 43024227.69 43024227.84 43024228.00 0.0268 0.0140

Moon 113086-07-17 20:51 G 43025071.26 43025071.37 43025071.48 0.2663 0.0652

Earth 113086-07-17 21:20 G 43025071.28 43025071.39 43025071.49 0.2659 0.0766 *

Venus 113087-04-05 13:39 G 43025332.98 43025333.07 43025333.16 0.3695 0.1825

Moon 113089-01-20 16:32 G 43025989.12 43025989.19 43025989.25 0.2676 0.2405

Jupiter 113089-10-08 12:13 G 43026249.85 43026250.01 43026250.18 0.0501 0.0136

Mars 113090-03-01 12:27 G 43026393.91 43026394.02 43026394.13 0.1809 0.0492

Mars 113091-03-29 19:39 G 43026787.23 43026787.32 43026787.42 0.1737 0.1427

Venus 113092-10-19 05:58 G 43027356.65 43027356.75 43027356.86 0.3691 0.0143

Uranus 113093-08-14 08:51 G 43027655.82 43027655.87 43027655.93 0.0139 0.0132

Uranus 113093-11-10 15:34 G 43027744.04 43027744.15 43027744.27 0.0139 0.0107

Uranus 113094-02-06 22:17 G 43027832.29 43027832.43 43027832.59 0.0138 0.0082

Uranus 113094-05-06 05:15 G 43027920.56 43027920.72 43027920.89 0.0138 0.0056

Uranus 113094-08-02 12:13 G 43028008.83 43028009.01 43028009.19 0.0138 0.0031

Uranus 113094-10-29 19:10 G 43028097.12 43028097.30 43028097.48 0.0138 0.0005

Uranus 113095-01-26 02:08 G 43028185.41 43028185.59 43028185.77 0.0138 0.0021

Jupiter 113095-03-17 13:39 G 43028236.01 43028236.07 43028236.14 0.0529 0.0456

Uranus 113095-04-24 08:51 G 43028273.71 43028273.87 43028274.05 0.0138 0.0047

Jupiter 113095-06-14 21:49 G 43028325.29 43028325.41 43028325.53 0.0525 0.0212

Uranus 113095-07-21 15:49 G 43028362.02 43028362.16 43028362.33 0.0138 0.0073

Uranus 113095-10-17 22:46 G 43028450.34 43028450.45 43028450.60 0.0138 0.0099

Uranus 113096-01-14 05:58 G 43028538.68 43028538.75 43028538.84 0.0138 0.0125

Neptune 113097-03-27 10:03 G 43028976.91 43028976.92 43028976.96 0.0089 0.0088

Neptune 113097-06-23 13:39 G 43029064.99 43029065.07 43029065.16 0.0089 0.0079

Neptune 113097-09-19 16:46 G 43029153.09 43029153.20 43029153.32 0.0089 0.0069

Neptune 113097-12-16 19:53 G 43029241.21 43029241.33 43029241.48 0.0089 0.0060

Neptune 113098-03-14 23:29 G 43029329.33 43029329.48 43029329.64 0.0089 0.0051

Venus 113098-05-04 22:17 G 43029380.34 43029380.43 43029380.53 0.3688 0.1599

Neptune 113098-06-11 02:37 G 43029417.46 43029417.61 43029417.79 0.0089 0.0041

Neptune 113098-09-07 06:13 G 43029505.59 43029505.76 43029505.93 0.0089 0.0032

Saturn 113098-10-27 07:25 G 43029555.74 43029555.81 43029555.89 0.0291 0.0237

Neptune 113098-12-04 09:20 G 43029593.72 43029593.89 43029594.08 0.0089 0.0022

Saturn 113099-01-23 20:08 G 43029644.21 43029644.34 43029644.48 0.0291 0.0065

Neptune 113099-03-02 12:56 G 43029681.85 43029682.04 43029682.22 0.0089 0.0012

Saturn 113099-04-22 08:51 G 43029732.75 43029732.87 43029732.99 0.0292 0.0107

Neptune 113099-05-29 16:17 G 43029769.99 43029770.18 43029770.37 0.0089 0.0003

Saturn 113099-07-19 21:20 G 43029821.35 43029821.39 43029821.43 0.0292 0.0277

Earth 113099-07-20 14:51 G 43029822.08 43029822.12 43029822.17 0.2657 0.2412

Moon 113099-07-20 15:05 G 43029822.10 43029822.13 43029822.17 0.2663 0.2505 *

Mars 113099-07-22 22:03 G 43029824.31 43029824.42 43029824.53 0.1818 0.0412

Neptune 113099-08-25 19:39 G 43029858.13 43029858.32 43029858.51 0.0089 0.0007

Venus 113099-11-19 08:08 G 43029943.70 43029943.84 43029943.97 0.3682 0.1395

Neptune 113099-11-21 23:01 G 43029946.28 43029946.46 43029946.65 0.0089 0.0016

Neptune 113100-02-18 02:08 G 43030034.42 43030034.59 43030034.78 0.0089 0.0027

Neptune 113100-05-17 05:29 G 43030122.57 43030122.73 43030122.92 0.0089 0.0036

Neptune 113100-08-13 09:05 G 43030210.73 43030210.88 43030211.05 0.0089 0.0046

Mars 113100-08-19 17:44 G 43030217.07 43030217.24 43030217.41 0.1728 0.0029

Neptune 113100-11-09 12:27 G 43030298.88 43030299.02 43030299.18 0.0089 0.0056

Neptune 113101-02-05 15:49 G 43030387.05 43030387.16 43030387.30 0.0089 0.0065

Neptune 113101-05-04 19:10 G 43030475.22 43030475.30 43030475.42 0.0089 0.0075

Jupiter 113101-07-28 11:01 G 43030559.83 43030559.96 43030560.10 0.0500 0.0324

Neptune 113101-07-31 23:01 G 43030563.40 43030563.46 43030563.52 0.0089 0.0085

Jupiter 113101-10-26 16:32 G 43030650.14 43030650.19 43030650.26 0.0504 0.0475

Venus 113103-11-19 14:37 G 43031404.06 43031404.11 43031404.15 0.3684 0.3241

Venus 113105-06-05 14:08 G 43031968.01 43031968.09 43031968.17 0.3687 0.2992

Moon 113106-07-14 13:53 G 43032372.04 43032372.08 43032372.12 0.2662 0.2442

Earth 113106-07-14 14:37 G 43032372.05 43032372.11 43032372.16 0.2662 0.2255 *

Jupiter 113107-04-04 01:39 G 43032635.44 43032635.57 43032635.70 0.0526 0.0053

Mars 113108-12-13 07:25 G 43033254.73 43033254.81 43033254.88 0.1826 0.1351

Mars 113110-01-09 16:17 G 43033647.08 43033647.18 43033647.27 0.1720 0.1415

Saturn 113113-05-17 09:34 G 43034870.74 43034870.90 43034871.07 0.0268 0.0115

Saturn 113113-08-14 05:29 G 43034959.56 43034959.73 43034959.91 0.0268 0.0067

Jupiter 113113-08-14 15:20 G 43034959.99 43034960.14 43034960.29 0.0503 0.0281

Saturn 113113-11-11 01:39 G 43035048.51 43035048.57 43035048.63 0.0268 0.0251

Jupiter 113119-01-21 05:01 G 43036945.58 43036945.71 43036945.84 0.0526 0.0121

Moon 113119-07-17 07:53 G 43037122.72 43037122.83 43037122.94 0.2665 0.0586

Earth 113119-07-17 08:22 G 43037122.74 43037122.85 43037122.96 0.2660 0.0562 *

Mars 113120-04-10 02:51 G 43037390.56 43037390.62 43037390.68 0.1800 0.1480

Moon 113122-01-19 16:32 G 43038040.04 43038040.19 43038040.35 0.2677 0.0364

Earth 113122-01-19 17:58 G 43038040.10 43038040.25 43038040.41 0.2673 0.0121 *

Jupiter 113125-06-02 13:39 G 43039269.89 43039270.07 43039270.24 0.0502 0.0084

Saturn 113128-03-16 09:05 G 43040287.87 43040287.88 43040287.90 0.0291 0.0289

Saturn 113128-06-12 22:03 G 43040376.30 43040376.42 43040376.54 0.0291 0.0116

Saturn 113128-09-09 10:46 G 43040464.82 43040464.95 43040465.08 0.0292 0.0056

Saturn 113128-12-06 23:15 G 43040553.39 43040553.47 43040553.55 0.0292 0.0227

Mars 113129-08-31 12:27 G 43040820.91 43040821.02 43040821.13 0.1809 0.0603

Mars 113130-09-28 20:22 G 43041214.29 43041214.35 43041214.42 0.1737 0.1609

Jupiter 113130-11-09 08:37 G 43041255.75 43041255.86 43041255.97 0.0528 0.0288

Jupiter 113131-02-06 16:17 G 43041345.09 43041345.18 43041345.27 0.0524 0.0371

Earth 113132-07-19 02:08 G 43041873.49 43041873.59 43041873.69 0.2658 0.1110

Moon 113132-07-19 02:22 G 43041873.51 43041873.60 43041873.70 0.2664 0.1137 *

Uranus 113136-11-15 19:25 G 43043454.25 43043454.31 43043454.38 0.0139 0.0123

Uranus 113137-02-11 23:15 G 43043542.38 43043542.47 43043542.57 0.0139 0.0103

Jupiter 113137-03-21 10:46 G 43043579.79 43043579.95 43043580.13 0.0501 0.0129

Uranus 113137-05-11 03:05 G 43043630.52 43043630.63 43043630.74 0.0140 0.0083

Uranus 113137-08-07 06:41 G 43043718.66 43043718.78 43043718.91 0.0140 0.0063

Uranus 113137-11-03 10:32 G 43043806.81 43043806.94 43043807.07 0.0140 0.0043

Uranus 113138-01-30 14:08 G 43043894.96 43043895.09 43043895.23 0.0140 0.0023

Venus 113138-04-27 18:41 G 43043982.22 43043982.28 43043982.34 0.3697 0.3016

Uranus 113138-04-28 17:44 G 43043983.11 43043983.24 43043983.38 0.0140 0.0005

Uranus 113138-07-25 21:34 G 43044071.26 43044071.40 43044071.53 0.0140 0.0017

Uranus 113138-10-22 01:10 G 43044159.42 43044159.55 43044159.68 0.0140 0.0036

Uranus 113139-01-18 04:46 G 43044247.58 43044247.70 43044247.82 0.0140 0.0056

Mars 113139-01-21 22:03 G 43044251.30 43044251.42 43044251.53 0.1818 0.0316

Uranus 113139-04-16 08:22 G 43044335.74 43044335.85 43044335.96 0.0140 0.0075

Uranus 113139-07-13 11:44 G 43044423.90 43044423.99 43044424.10 0.0140 0.0095

Uranus 113139-10-09 15:34 G 43044512.07 43044512.15 43044512.23 0.0140 0.0114

Uranus 113140-01-05 19:10 G 43044600.26 43044600.30 43044600.34 0.0140 0.0134

Mars 113140-02-18 18:27 G 43044644.11 43044644.27 43044644.44 0.1729 0.0167

Jupiter 113142-08-28 12:13 G 43045565.95 43045566.01 43045566.08 0.0529 0.0455

Saturn 113142-10-04 10:32 G 43045602.79 43045602.94 43045603.09 0.0269 0.0155

Jupiter 113142-11-25 20:22 G 43045655.24 43045655.35 43045655.47 0.0526 0.0216

Saturn 113143-01-01 06:13 G 43045691.58 43045691.76 43045691.95 0.0269 0.0028

Saturn 113143-03-31 02:08 G 43045780.49 43045780.59 43045780.71 0.0268 0.0211

Venus 113143-11-11 11:15 G 43046005.87 43046005.97 43046006.07 0.3694 0.1250

Mars 113148-06-13 07:10 G 43047681.72 43047681.80 43047681.89 0.1826 0.1240

Jupiter 113149-01-07 09:34 G 43047889.77 43047889.90 43047890.04 0.0500 0.0317

Jupiter 113149-04-07 15:05 G 43047980.08 43047980.13 43047980.18 0.0503 0.0478

Pluto 113149-04-22 07:10 G 43047994.71 43047994.80 43047994.92 0.0060 0.0051

Venus 113149-05-27 03:49 G 43048029.55 43048029.66 43048029.76 0.3690 0.0495

Mars 113149-07-10 17:01 G 43048074.10 43048074.21 43048074.33 0.1720 0.1231

Pluto 113149-07-19 08:22 G 43048082.73 43048082.85 43048083.01 0.0060 0.0042

Pluto 113149-10-15 09:49 G 43048170.76 43048170.91 43048171.10 0.0060 0.0033

Pluto 113150-01-11 11:29 G 43048258.81 43048258.98 43048259.17 0.0060 0.0023

Pluto 113150-04-09 12:56 G 43048346.85 43048347.04 43048347.24 0.0060 0.0014

Pluto 113150-07-06 14:22 G 43048434.91 43048435.10 43048435.30 0.0060 0.0004

Pluto 113150-10-02 15:49 G 43048522.97 43048523.16 43048523.36 0.0060 0.0005

Pluto 113150-12-29 17:01 G 43048611.03 43048611.21 43048611.41 0.0060 0.0015

Pluto 113151-03-27 18:27 G 43048699.10 43048699.27 43048699.46 0.0060 0.0024

Pluto 113151-06-23 19:39 G 43048787.18 43048787.32 43048787.50 0.0060 0.0034

Pluto 113151-09-19 21:05 G 43048875.26 43048875.38 43048875.53 0.0060 0.0044

Pluto 113151-12-16 22:17 G 43048963.36 43048963.43 43048963.55 0.0060 0.0053

Moon 113152-07-14 18:56 G 43049174.22 43049174.29 43049174.37 0.2668 0.1928

Earth 113152-07-14 19:25 G 43049174.23 43049174.31 43049174.38 0.2661 0.1901 *

Jupiter 113154-09-14 00:41 G 43049965.40 43049965.53 43049965.66 0.0526 0.0061

Venus 113154-12-10 19:53 G 43050053.25 43050053.33 43050053.42 0.3687 0.2142

Venus 113156-06-26 09:20 G 43050616.74 43050616.89 43050617.04 0.3684 0.0070

Saturn 113157-10-30 22:46 G 43051108.35 43051108.45 43051108.56 0.0291 0.0179

Saturn 113158-01-27 11:29 G 43051196.85 43051196.98 43051197.12 0.0291 0.0009

Saturn 113158-04-25 23:58 G 43051285.40 43051285.50 43051285.62 0.0291 0.0164

Mars 113159-10-10 02:51 G 43051817.57 43051817.62 43051817.67 0.1800 0.1600

Jupiter 113161-01-24 13:25 G 43052289.92 43052290.06 43052290.21 0.0503 0.0282

Earth 113165-07-17 13:10 G 43053924.94 43053925.05 43053925.16 0.2660 0.0208

Moon 113165-07-17 13:39 G 43053924.96 43053925.07 43053925.18 0.2664 0.0149 *

Jupiter 113166-07-03 04:32 G 43054275.56 43054275.69 43054275.82 0.0527 0.0102

Earth 113168-01-21 00:27 G 43054842.37 43054842.52 43054842.68 0.2673 0.0577

Moon 113168-01-21 00:56 G 43054842.39 43054842.54 43054842.69 0.2680 0.0546 *

Mars 113169-03-01 12:27 G 43055247.92 43055248.02 43055248.13 0.1809 0.0713

Saturn 113172-02-21 07:39 G 43056334.73 43056334.82 43056334.92 0.0269 0.0228

Saturn 113172-05-20 03:20 G 43056423.47 43056423.64 43056423.82 0.0268 0.0048

Saturn 113172-08-16 23:15 G 43056512.32 43056512.47 43056512.63 0.0268 0.0136

Jupiter 113172-11-12 12:13 G 43056599.84 43056600.01 43056600.18 0.0502 0.0091

Uranus 113177-09-04 16:32 G 43058357.11 43058357.19 43058357.27 0.0139 0.0124

Neptune 113177-10-27 09:05 G 43058409.86 43058409.88 43058409.93 0.0088 0.0085

Uranus 113177-12-01 23:15 G 43058445.35 43058445.47 43058445.60 0.0139 0.0099

Neptune 113178-01-23 10:46 G 43058497.90 43058497.95 43058498.02 0.0088 0.0078

Uranus 113178-02-28 05:58 G 43058533.60 43058533.75 43058533.91 0.0138 0.0074

Jupiter 113178-04-21 07:39 G 43058585.71 43058585.82 43058585.94 0.0527 0.0276

Neptune 113178-04-21 12:13 G 43058585.94 43058586.01 43058586.10 0.0088 0.0071 *

Uranus 113178-05-27 12:56 G 43058621.87 43058622.04 43058622.22 0.0138 0.0048

Neptune 113178-07-18 13:39 G 43058673.99 43058674.07 43058674.17 0.0088 0.0064

Jupiter 113178-07-19 15:34 G 43058675.06 43058675.15 43058675.24 0.0524 0.0382

Earth 113178-07-20 06:56 G 43058675.70 43058675.79 43058675.88 0.2658 0.1460

Moon 113178-07-20 07:39 G 43058675.73 43058675.82 43058675.90 0.2657 0.1632 *

Mars 113178-07-22 22:03 G 43058678.30 43058678.42 43058678.53 0.1817 0.0211

Uranus 113178-08-23 19:53 G 43058710.15 43058710.33 43058710.51 0.0138 0.0022

Neptune 113178-10-14 15:20 G 43058762.04 43058762.14 43058762.25 0.0088 0.0057

Uranus 113178-11-20 02:51 G 43058798.44 43058798.62 43058798.80 0.0138 0.0003

Neptune 113179-01-10 16:46 G 43058850.09 43058850.20 43058850.31 0.0088 0.0050

Uranus 113179-02-16 09:49 G 43058886.73 43058886.91 43058887.09 0.0138 0.0029

Neptune 113179-04-08 17:58 G 43058938.14 43058938.25 43058938.38 0.0088 0.0044

Uranus 113179-05-15 16:32 G 43058975.03 43058975.19 43058975.37 0.0138 0.0055

Neptune 113179-07-05 19:25 G 43059026.20 43059026.31 43059026.45 0.0088 0.0037

Uranus 113179-08-11 23:29 G 43059063.34 43059063.48 43059063.64 0.0138 0.0081

Mars 113179-08-19 19:25 G 43059071.15 43059071.31 43059071.47 0.1729 0.0344

Neptune 113179-10-01 21:05 G 43059114.25 43059114.38 43059114.51 0.0088 0.0030

Uranus 113179-11-08 06:27 G 43059151.67 43059151.77 43059151.90 0.0138 0.0107

Neptune 113179-12-28 22:32 G 43059202.31 43059202.44 43059202.57 0.0088 0.0023

Uranus 113180-02-04 13:39 G 43059240.04 43059240.07 43059240.13 0.0138 0.0133

Neptune 113180-03-25 23:58 G 43059290.37 43059290.50 43059290.63 0.0088 0.0016

Neptune 113180-06-22 01:25 G 43059378.42 43059378.56 43059378.69 0.0088 0.0010

Neptune 113180-09-18 02:51 G 43059466.48 43059466.62 43059466.75 0.0088 0.0004

Neptune 113180-12-15 04:03 G 43059554.54 43059554.67 43059554.81 0.0088 0.0005

Neptune 113181-03-13 05:29 G 43059642.60 43059642.73 43059642.87 0.0088 0.0011

Neptune 113181-06-09 06:56 G 43059730.66 43059730.79 43059730.92 0.0088 0.0017

Neptune 113181-09-05 08:08 G 43059818.72 43059818.84 43059818.98 0.0088 0.0024

Neptune 113181-12-02 09:49 G 43059906.78 43059906.91 43059907.03 0.0088 0.0030

Neptune 113182-02-28 11:01 G 43059994.84 43059994.96 43059995.09 0.0088 0.0037

Neptune 113182-05-27 12:13 G 43060082.90 43060083.01 43060083.14 0.0088 0.0044

Neptune 113182-08-23 13:53 G 43060170.97 43060171.08 43060171.19 0.0088 0.0050

Neptune 113182-11-19 15:05 G 43060259.03 43060259.13 43060259.24 0.0088 0.0057

Neptune 113183-02-15 16:32 G 43060347.10 43060347.19 43060347.29 0.0088 0.0063

Neptune 113183-05-14 17:44 G 43060435.17 43060435.24 43060435.33 0.0088 0.0070

Neptune 113183-08-10 19:10 G 43060523.24 43060523.30 43060523.37 0.0088 0.0076

Neptune 113183-11-06 20:22 G 43060611.32 43060611.35 43060611.40 0.0088 0.0083

Jupiter 113184-08-31 10:46 G 43060909.78 43060909.95 43060910.12 0.0501 0.0102

Saturn 113187-03-20 00:13 G 43061840.43 43061840.51 43061840.59 0.0291 0.0235

Saturn 113187-06-16 12:56 G 43061928.91 43061929.04 43061929.18 0.0291 0.0063

Saturn 113187-09-13 01:39 G 43062017.45 43062017.57 43062017.70 0.0292 0.0110

Saturn 113187-12-10 14:08 G 43062106.06 43062106.09 43062106.13 0.0292 0.0279

Mars 113187-12-13 07:10 G 43062108.72 43062108.80 43062108.89 0.1826 0.1130

Mars 113189-01-08 17:44 G 43062501.11 43062501.24 43062501.38 0.1721 0.1059

Jupiter 113190-02-07 11:15 G 43062895.90 43062895.97 43062896.04 0.0528 0.0445

Jupiter 113190-05-07 19:25 G 43062985.19 43062985.31 43062985.43 0.0525 0.0223

Venus 113194-12-02 16:32 G 43064655.11 43064655.19 43064655.27 0.3696 0.2434

Jupiter 113196-06-19 08:22 G 43065219.71 43065219.85 43065219.99 0.0500 0.0307

Jupiter 113196-09-17 13:39 G 43065310.04 43065310.07 43065310.12 0.0503 0.0487

Earth 113198-07-16 00:13 G 43065976.42 43065976.51 43065976.60 0.2661 0.1546

Moon 113198-07-16 00:41 G 43065976.44 43065976.53 43065976.62 0.2665 0.1403 *

Mars 113199-04-10 02:51 G 43066244.58 43066244.62 43066244.65 0.1800 0.1696

Venus 113200-06-17 09:05 G 43066678.77 43066678.88 43066678.98 0.3693 0.0695

Earth 113201-01-18 00:56 G 43066893.45 43066893.54 43066893.62 0.2672 0.2197

Moon 113201-01-18 01:39 G 43066893.48 43066893.57 43066893.66 0.2678 0.2116 *

Saturn 113201-07-10 08:22 G 43067066.85 43067066.85 43067066.87 0.0269 0.0269

Saturn 113201-10-07 04:03 G 43067155.51 43067155.67 43067155.85 0.0269 0.0088

Saturn 113202-01-03 23:58 G 43067244.34 43067244.50 43067244.68 0.0269 0.0096

Jupiter 113202-02-23 23:15 G 43067295.34 43067295.47 43067295.60 0.0527 0.0063

Venus 113206-01-01 01:25 G 43068702.46 43068702.56 43068702.66 0.3689 0.1027

Venus 113207-07-18 05:01 G 43069265.63 43069265.71 43069265.80 0.3680 0.2955

Jupiter 113208-04-07 07:10 G 43069529.78 43069529.80 43069529.83 0.0499 0.0493

Jupiter 113208-07-06 11:58 G 43069619.86 43069620.00 43069620.15 0.0502 0.0288

Mars 113208-08-30 12:27 G 43069674.92 43069675.02 43069675.12 0.1809 0.0820

Venus 113211-07-17 17:29 G 43070726.16 43070726.23 43070726.31 0.3686 0.2687

Earth 113211-07-18 17:58 G 43070727.14 43070727.25 43070727.36 0.2659 0.0146

Moon 113211-07-18 18:41 G 43070727.17 43070727.28 43070727.39 0.2657 0.0221 *

Venus 113213-01-31 10:46 G 43071289.81 43071289.95 43071290.09 0.3685 0.1296

Jupiter 113213-12-13 03:20 G 43071605.51 43071605.64 43071605.77 0.0527 0.0096

Earth 113214-01-21 07:10 G 43071644.66 43071644.80 43071644.93 0.2674 0.1264

Moon 113214-01-21 08:51 G 43071644.74 43071644.87 43071644.99 0.2673 0.1574 *

Saturn 113216-11-02 14:08 G 43072660.97 43072661.09 43072661.22 0.0291 0.0120

Saturn 113217-01-30 02:51 G 43072749.49 43072749.62 43072749.75 0.0291 0.0051

Saturn 113217-04-28 15:20 G 43072838.06 43072838.14 43072838.23 0.0291 0.0220

Mars 113218-01-20 22:03 G 43073105.30 43073105.42 43073105.53 0.1817 0.0079

Mars 113219-02-17 20:08 G 43073498.18 43073498.34 43073498.50 0.1729 0.0517

Jupiter 113220-04-24 10:17 G 43073929.76 43073929.93 43073930.11 0.0502 0.0094

Uranus 113220-09-08 23:01 G 43074067.44 43074067.46 43074067.48 0.0139 0.0137

Uranus 113220-12-06 02:37 G 43074155.55 43074155.61 43074155.69 0.0139 0.0118

Uranus 113221-03-04 06:27 G 43074243.68 43074243.77 43074243.87 0.0139 0.0098

Uranus 113221-05-31 10:17 G 43074331.82 43074331.93 43074332.05 0.0139 0.0078

Uranus 113221-08-27 13:53 G 43074419.96 43074420.08 43074420.21 0.0140 0.0058

Uranus 113221-11-23 17:44 G 43074508.11 43074508.24 43074508.37 0.0140 0.0038

Uranus 113222-02-19 21:20 G 43074596.26 43074596.39 43074596.53 0.0140 0.0019

Uranus 113222-05-19 01:10 G 43074684.41 43074684.55 43074684.68 0.0140 0.0003

Uranus 113222-08-15 04:46 G 43074772.56 43074772.70 43074772.83 0.0140 0.0022

Uranus 113222-11-11 08:22 G 43074860.72 43074860.85 43074860.98 0.0140 0.0041

Uranus 113223-02-07 11:58 G 43074948.88 43074949.00 43074949.13 0.0140 0.0061

Uranus 113223-05-06 15:34 G 43075037.04 43075037.15 43075037.27 0.0140 0.0081

Uranus 113223-08-02 19:10 G 43075125.21 43075125.30 43075125.40 0.0140 0.0100

Uranus 113223-10-29 22:46 G 43075213.39 43075213.45 43075213.52 0.0140 0.0120

Uranus 113224-01-26 02:08 G 43075301.59 43075301.59 43075301.62 0.0140 0.0140

Moon 113224-07-20 11:44 G 43075477.91 43075477.99 43075478.07 0.2651 0.1833

Earth 113224-07-20 11:44 G 43075477.91 43075477.99 43075478.07 0.2658 0.1808 *

Jupiter 113225-10-01 07:10 G 43075915.68 43075915.80 43075915.91 0.0528 0.0258

Jupiter 113225-12-29 14:51 G 43076005.04 43076005.12 43076005.21 0.0524 0.0400

Mars 113227-06-13 07:10 G 43076535.71 43076535.80 43076535.90 0.1826 0.1021

Mars 113228-07-09 18:27 G 43076928.13 43076928.27 43076928.41 0.1721 0.0893

Saturn 113231-02-24 01:10 G 43077887.41 43077887.55 43077887.69 0.0269 0.0162

Saturn 113231-05-23 21:05 G 43077976.20 43077976.38 43077976.56 0.0269 0.0020

Saturn 113231-08-20 17:01 G 43078065.09 43078065.21 43078065.33 0.0268 0.0204

Jupiter 113232-02-11 09:20 G 43078239.72 43078239.89 43078240.06 0.0501 0.0095

Jupiter 113237-07-20 10:17 G 43080225.86 43080225.93 43080226.01 0.0528 0.0433

Jupiter 113237-10-17 18:27 G 43080315.16 43080315.27 43080315.39 0.0525 0.0234

Jupiter 113243-11-30 07:53 G 43082549.69 43082549.83 43082549.98 0.0500 0.0284

Earth 113244-07-16 05:01 G 43082778.61 43082778.71 43082778.81 0.2661 0.1188

Moon 113244-07-16 05:29 G 43082778.63 43082778.73 43082778.83 0.2656 0.1129 *

Pluto 113245-01-14 22:32 G 43082961.42 43082961.44 43082961.49 0.0085 0.0082

Pluto 113245-04-12 23:58 G 43083049.42 43083049.50 43083049.59 0.0085 0.0063

Pluto 113245-07-10 01:10 G 43083137.44 43083137.55 43083137.66 0.0085 0.0045

Pluto 113245-10-06 02:22 G 43083225.48 43083225.60 43083225.73 0.0085 0.0027

Venus 113245-12-23 21:34 G 43083304.38 43083304.40 43083304.42 0.3699 0.3631

Pluto 113246-01-02 03:34 G 43083313.52 43083313.65 43083313.79 0.0085 0.0010

Saturn 113246-03-22 15:34 G 43083393.04 43083393.15 43083393.26 0.0291 0.0178

Pluto 113246-03-31 04:46 G 43083401.57 43083401.70 43083401.84 0.0084 0.0009

Saturn 113246-06-19 04:17 G 43083481.55 43083481.68 43083481.82 0.0291 0.0006

Pluto 113246-06-27 05:58 G 43083489.63 43083489.75 43083489.88 0.0084 0.0026

Saturn 113246-09-15 16:46 G 43083570.10 43083570.20 43083570.31 0.0291 0.0165

Pluto 113246-09-23 07:10 G 43083577.69 43083577.80 43083577.92 0.0084 0.0044

Pluto 113246-12-20 08:22 G 43083665.76 43083665.85 43083665.94 0.0084 0.0062

Earth 113247-01-19 07:25 G 43083695.68 43083695.81 43083695.93 0.2672 0.1532

Moon 113247-01-19 08:51 G 43083695.74 43083695.87 43083696.00 0.2670 0.1397 *

Pluto 113247-03-18 09:20 G 43083753.86 43083753.89 43083753.94 0.0084 0.0079

Mars 113248-02-29 12:27 G 43084101.92 43084102.02 43084102.12 0.1808 0.0932

Jupiter 113249-08-05 22:17 G 43084625.30 43084625.43 43084625.56 0.0526 0.0072

Venus 113251-07-09 14:08 G 43085328.00 43085328.09 43085328.18 0.3695 0.1852

Jupiter 113255-09-18 05:58 G 43086859.71 43086859.75 43086859.80 0.0499 0.0483

Jupiter 113255-12-17 10:46 G 43086949.81 43086949.95 43086950.09 0.0502 0.0298

Venus 113257-01-22 06:41 G 43087351.67 43087351.78 43087351.89 0.3692 0.0114

Moon 113257-07-18 22:46 G 43087529.34 43087529.45 43087529.56 0.2653 0.0522

Earth 113257-07-18 22:46 G 43087529.34 43087529.45 43087529.56 0.2659 0.0501 *

Mars 113257-07-21 21:49 G 43087532.30 43087532.41 43087532.53 0.1817 0.0058

Mars 113258-08-18 20:51 G 43087925.22 43087925.37 43087925.53 0.1730 0.0698

Earth 113260-01-22 13:39 G 43088446.97 43088447.07 43088447.18 0.2674 0.1968

Moon 113260-01-22 14:22 G 43088447.00 43088447.10 43088447.19 0.2668 0.2134 *

Saturn 113260-07-13 01:53 G 43088619.47 43088619.58 43088619.70 0.0269 0.0203

Saturn 113260-10-09 21:49 G 43088708.23 43088708.41 43088708.59 0.0269 0.0022

Saturn 113261-01-06 17:44 G 43088797.10 43088797.24 43088797.38 0.0269 0.0163

Jupiter 113261-05-25 01:53 G 43088935.45 43088935.58 43088935.71 0.0528 0.0095

Uranus 113261-09-24 23:44 G 43089058.40 43089058.49 43089058.59 0.0139 0.0117

Uranus 113261-12-22 06:27 G 43089146.65 43089146.77 43089146.92 0.0139 0.0092

Neptune 113261-12-23 08:37 G 43089147.80 43089147.86 43089147.91 0.0089 0.0085

Uranus 113262-03-20 13:25 G 43089234.91 43089235.06 43089235.23 0.0138 0.0066

Neptune 113262-03-21 11:29 G 43089235.90 43089235.98 43089236.09 0.0089 0.0076

Uranus 113262-06-16 20:22 G 43089323.18 43089323.35 43089323.53 0.0138 0.0041

Neptune 113262-06-17 14:51 G 43089324.01 43089324.12 43089324.25 0.0089 0.0066

Venus 113262-08-07 23:01 G 43089375.37 43089375.46 43089375.56 0.3688 0.1575

Uranus 113262-09-13 03:20 G 43089411.46 43089411.64 43089411.82 0.0138 0.0015

Neptune 113262-09-13 18:27 G 43089412.13 43089412.27 43089412.41 0.0089 0.0057

Uranus 113262-12-10 10:17 G 43089499.74 43089499.93 43089500.11 0.0138 0.0011

Neptune 113262-12-10 21:34 G 43089500.25 43089500.40 43089500.56 0.0089 0.0047

Uranus 113263-03-08 17:15 G 43089588.04 43089588.22 43089588.40 0.0138 0.0036

Neptune 113263-03-09 00:41 G 43089588.37 43089588.53 43089588.71 0.0089 0.0038 *

Uranus 113263-06-05 00:13 G 43089676.34 43089676.51 43089676.67 0.0138 0.0062

Neptune 113263-06-05 04:17 G 43089676.50 43089676.68 43089676.86 0.0089 0.0028 *

Neptune 113263-09-01 07:25 G 43089764.64 43089764.81 43089765.00 0.0089 0.0019

Uranus 113263-09-01 07:10 G 43089764.66 43089764.80 43089764.94 0.0138 0.0088 *

Neptune 113263-11-28 11:01 G 43089852.77 43089852.96 43089853.15 0.0089 0.0009

Uranus 113263-11-28 14:08 G 43089852.99 43089853.09 43089853.20 0.0138 0.0114 *

Venus 113264-02-22 06:13 G 43089938.63 43089938.76 43089938.89 0.3681 0.1668

Neptune 113264-02-24 14:22 G 43089940.91 43089941.10 43089941.29 0.0089 0.0001

Neptune 113264-05-22 17:29 G 43090029.05 43090029.23 43090029.43 0.0089 0.0011

Neptune 113264-08-18 21:05 G 43090117.20 43090117.38 43090117.56 0.0089 0.0020

Neptune 113264-11-15 00:13 G 43090205.34 43090205.51 43090205.70 0.0089 0.0030

Neptune 113265-02-11 03:34 G 43090293.49 43090293.65 43090293.83 0.0089 0.0039

Neptune 113265-05-10 07:10 G 43090381.65 43090381.80 43090381.96 0.0089 0.0049

Neptune 113265-08-06 10:32 G 43090469.81 43090469.94 43090470.09 0.0089 0.0059

Neptune 113265-11-02 13:39 G 43090557.97 43090558.07 43090558.21 0.0089 0.0069

Neptune 113266-01-29 17:01 G 43090646.14 43090646.21 43090646.32 0.0089 0.0079

Neptune 113266-04-27 20:51 G 43090734.35 43090734.37 43090734.41 0.0089 0.0088

Mars 113266-12-12 07:25 G 43090962.71 43090962.81 43090962.91 0.1826 0.0903

Jupiter 113267-10-05 09:05 G 43091259.71 43091259.88 43091260.05 0.0501 0.0101

Mars 113268-01-08 19:25 G 43091355.16 43091355.31 43091355.46 0.1721 0.0702

Venus 113268-02-21 15:20 G 43091399.09 43091399.14 43091399.19 0.3685 0.3221

Venus 113269-09-07 12:13 G 43091962.90 43091963.01 43091963.11 0.3687 0.2671

Moon 113270-07-21 15:49 G 43092280.09 43092280.16 43092280.23 0.2655 0.1974

Earth 113270-07-21 16:32 G 43092280.13 43092280.19 43092280.25 0.2657 0.2155 *

Jupiter 113273-03-13 05:44 G 43093245.63 43093245.74 43093245.86 0.0528 0.0256

Jupiter 113273-06-10 13:39 G 43093334.99 43093335.07 43093335.15 0.0525 0.0404

Saturn 113275-08-09 17:01 G 43094125.13 43094125.21 43094125.29 0.0290 0.0231

Saturn 113275-11-06 05:44 G 43094213.61 43094213.74 43094213.87 0.0290 0.0060

Saturn 113276-02-02 18:13 G 43094302.14 43094302.26 43094302.39 0.0291 0.0110

Saturn 113276-05-01 06:41 G 43094390.75 43094390.78 43094390.82 0.0291 0.0278

Earth 113277-07-14 16:03 G 43094830.14 43094830.17 43094830.20 0.2662 0.2534

Moon 113277-07-14 16:17 G 43094830.14 43094830.18 43094830.23 0.2657 0.2403 *

Jupiter 113279-07-24 07:39 G 43095569.64 43095569.82 43095569.99 0.0501 0.0093

Jupiter 113284-12-30 09:34 G 43097555.82 43097555.90 43097555.98 0.0529 0.0418

Jupiter 113285-03-29 17:44 G 43097645.13 43097645.24 43097645.36 0.0525 0.0250

Mars 113287-08-30 12:27 G 43098528.93 43098529.02 43098529.11 0.1808 0.1041

Saturn 113290-02-26 18:56 G 43099440.12 43099440.29 43099440.46 0.0269 0.0095

Saturn 113290-05-26 14:37 G 43099528.94 43099529.11 43099529.29 0.0269 0.0089

Moon 113290-07-17 09:34 G 43099580.80 43099580.90 43099581.01 0.2654 0.0916

Earth 113290-07-17 09:49 G 43099580.81 43099580.91 43099581.02 0.2661 0.0825 *

Jupiter 113291-05-12 06:27 G 43099879.63 43099879.77 43099879.92 0.0500 0.0278

Moon 113293-01-19 13:39 G 43100497.92 43100498.07 43100498.22 0.2665 0.0860

Earth 113293-01-19 13:53 G 43100497.93 43100498.08 43100498.22 0.2672 0.0860 *

Jupiter 113297-01-15 21:20 G 43101955.26 43101955.39 43101955.52 0.0526 0.0082

Mars 113297-01-19 21:49 G 43101959.30 43101959.41 43101959.53 0.1817 0.0150

Mars 113298-02-16 21:49 G 43102352.27 43102352.41 43102352.55 0.1730 0.0889

Venus 113302-07-31 19:25 G 43103977.25 43103977.31 43103977.36 0.3698 0.3045

Jupiter 113303-03-01 05:29 G 43104189.67 43104189.73 43104189.79 0.0499 0.0463

Jupiter 113303-05-30 10:17 G 43104279.80 43104279.93 43104280.07 0.0503 0.0320

Moon 113303-07-21 02:51 G 43104331.52 43104331.62 43104331.73 0.2660 0.0776

Earth 113303-07-21 03:34 G 43104331.55 43104331.65 43104331.76 0.2659 0.0855 *

Uranus 113304-09-30 06:13 G 43104768.72 43104768.76 43104768.80 0.0139 0.0133

Uranus 113304-12-27 10:03 G 43104856.84 43104856.92 43104857.00 0.0139 0.0113

Uranus 113305-03-25 13:39 G 43104944.97 43104945.07 43104945.18 0.0139 0.0093

Saturn 113305-03-26 06:56 G 43104945.67 43104945.79 43104945.92 0.0291 0.0118

Uranus 113305-06-21 17:29 G 43105033.11 43105033.23 43105033.35 0.0139 0.0073

Saturn 113305-06-22 19:39 G 43105034.19 43105034.32 43105034.45 0.0291 0.0053

Uranus 113305-09-17 21:05 G 43105121.26 43105121.38 43105121.51 0.0139 0.0053

Saturn 113305-09-19 08:08 G 43105122.76 43105122.84 43105122.93 0.0291 0.0222

Uranus 113305-12-15 00:41 G 43105209.40 43105209.53 43105209.67 0.0140 0.0034

Moon 113306-01-23 18:41 G 43105249.21 43105249.28 43105249.35 0.2673 0.2364

Earth 113306-01-23 20:08 G 43105249.33 43105249.34 43105249.36 0.2675 0.2657 *

Uranus 113306-03-13 04:32 G 43105297.55 43105297.69 43105297.83 0.0140 0.0013

Uranus 113306-06-09 08:08 G 43105385.71 43105385.84 43105385.98 0.0140 0.0008

Mars 113306-06-13 07:10 G 43105389.70 43105389.80 43105389.91 0.1825 0.0796

Uranus 113306-09-05 11:44 G 43105473.86 43105473.99 43105474.13 0.0140 0.0027

Uranus 113306-12-02 15:34 G 43105562.02 43105562.15 43105562.28 0.0140 0.0046

Uranus 113307-02-28 18:56 G 43105650.18 43105650.29 43105650.42 0.0140 0.0066

Uranus 113307-05-27 22:46 G 43105738.34 43105738.45 43105738.56 0.0140 0.0085

Mars 113307-07-10 20:08 G 43105782.18 43105782.34 43105782.50 0.1721 0.0529

Uranus 113307-08-24 02:08 G 43105826.51 43105826.59 43105826.69 0.0140 0.0105

Uranus 113307-11-20 05:58 G 43105914.69 43105914.75 43105914.81 0.0140 0.0124

Venus 113308-02-14 11:58 G 43106000.90 43106001.00 43106001.10 0.3695 0.1276

Jupiter 113308-11-05 00:56 G 43106265.41 43106265.54 43106265.67 0.0527 0.0084

Venus 113313-08-30 04:17 G 43108024.58 43108024.68 43108024.79 0.3691 0.0464

Jupiter 113315-03-18 07:53 G 43108589.66 43108589.83 43108590.00 0.0501 0.0111

Mars 113315-11-03 16:32 G 43108820.16 43108820.19 43108820.22 0.1834 0.1750

Moon 113316-07-22 21:05 G 43109082.34 43109082.38 43109082.42 0.2663 0.2437

Earth 113316-07-22 21:20 G 43109082.35 43109082.39 43109082.42 0.2657 0.2498 *

Venus 113319-03-15 20:37 G 43110048.28 43110048.36 43110048.45 0.3688 0.2120

Saturn 113319-07-17 19:25 G 43110172.16 43110172.31 43110172.47 0.0270 0.0137

Saturn 113319-10-14 15:20 G 43110260.97 43110261.14 43110261.32 0.0269 0.0047

Saturn 113320-01-11 11:29 G 43110349.89 43110349.98 43110350.07 0.0269 0.0232

Jupiter 113320-08-24 04:17 G 43110575.57 43110575.68 43110575.80 0.0528 0.0256

Venus 113320-09-29 07:25 G 43110611.66 43110611.81 43110611.95 0.3683 0.0365

Jupiter 113320-11-21 12:13 G 43110664.93 43110665.01 43110665.09 0.0525 0.0404

Moon 113323-07-16 20:22 G 43111632.29 43111632.35 43111632.40 0.2657 0.2291

Earth 113323-07-16 20:51 G 43111632.31 43111632.37 43111632.43 0.2662 0.2172 *

Jupiter 113327-01-04 06:13 G 43112899.59 43112899.76 43112899.94 0.0500 0.0084

Mars 113327-03-01 12:27 G 43112955.93 43112956.02 43112956.11 0.1808 0.1151

Jupiter 113332-06-12 08:08 G 43114885.76 43114885.84 43114885.92 0.0529 0.0419

Jupiter 113332-09-09 16:17 G 43114975.07 43114975.18 43114975.30 0.0526 0.0251

Saturn 113334-08-13 08:51 G 43115677.77 43115677.87 43115677.99 0.0290 0.0166

Saturn 113334-11-09 21:34 G 43115766.27 43115766.40 43115766.54 0.0290 0.0010

Saturn 113335-02-06 10:03 G 43115854.82 43115854.92 43115855.03 0.0291 0.0175

Moon 113336-07-18 14:08 G 43116382.98 43116383.09 43116383.20 0.2664 0.0546

Earth 113336-07-18 14:37 G 43116383.01 43116383.11 43116383.22 0.2660 0.0481 *

Mars 113336-07-21 22:03 G 43116386.30 43116386.42 43116386.53 0.1816 0.0255

Mars 113337-08-18 22:32 G 43116779.30 43116779.44 43116779.57 0.1730 0.1060

Jupiter 113338-10-23 04:46 G 43117209.55 43117209.70 43117209.84 0.0500 0.0276

Moon 113339-01-21 18:41 G 43117300.13 43117300.28 43117300.43 0.2673 0.0326

Earth 113339-01-21 20:22 G 43117300.19 43117300.35 43117300.50 0.2673 0.0187 *

Neptune 113342-07-25 08:37 G 43118580.83 43118580.86 43118580.92 0.0088 0.0082

Neptune 113342-10-21 10:17 G 43118668.87 43118668.93 43118669.01 0.0088 0.0075

Neptune 113343-01-17 11:44 G 43118756.91 43118756.99 43118757.09 0.0088 0.0068

Neptune 113343-04-15 13:25 G 43118844.96 43118845.06 43118845.16 0.0088 0.0061

Neptune 113343-07-12 14:51 G 43118933.01 43118933.12 43118933.23 0.0088 0.0054

Neptune 113343-10-08 16:03 G 43119021.06 43119021.17 43119021.29 0.0088 0.0048

Neptune 113344-01-04 17:29 G 43119109.12 43119109.23 43119109.36 0.0088 0.0041

Neptune 113344-04-01 19:10 G 43119197.17 43119197.30 43119197.43 0.0088 0.0034

Jupiter 113344-06-28 20:22 G 43119285.22 43119285.35 43119285.48 0.0526 0.0094

Neptune 113344-06-28 20:37 G 43119285.23 43119285.36 43119285.49 0.0088 0.0027 *

Neptune 113344-09-24 21:49 G 43119373.29 43119373.41 43119373.55 0.0088 0.0021

Neptune 113344-12-21 23:29 G 43119461.34 43119461.48 43119461.61 0.0088 0.0014

Neptune 113345-03-20 00:56 G 43119549.40 43119549.54 43119549.67 0.0088 0.0007

Neptune 113345-06-16 02:22 G 43119637.46 43119637.60 43119637.73 0.0088 0.0003

Uranus 113345-07-20 00:41 G 43119671.49 43119671.53 43119671.57 0.0139 0.0134

Neptune 113345-09-12 03:34 G 43119725.52 43119725.65 43119725.79 0.0088 0.0007

Uranus 113345-10-16 07:25 G 43119759.70 43119759.81 43119759.92 0.0139 0.0109

Neptune 113345-12-09 05:01 G 43119813.58 43119813.71 43119813.85 0.0088 0.0013

Mars 113345-12-12 07:10 G 43119816.70 43119816.80 43119816.91 0.1825 0.0682

Uranus 113346-01-12 14:08 G 43119847.95 43119848.09 43119848.24 0.0139 0.0084

Neptune 113346-03-07 06:27 G 43119901.64 43119901.77 43119901.90 0.0088 0.0020

Uranus 113346-04-10 20:51 G 43119936.21 43119936.37 43119936.54 0.0139 0.0059

Neptune 113346-06-03 07:53 G 43119989.70 43119989.83 43119989.96 0.0088 0.0026

Uranus 113346-07-08 03:49 G 43120024.49 43120024.66 43120024.84 0.0138 0.0033

Neptune 113346-08-30 09:05 G 43120077.76 43120077.88 43120078.01 0.0088 0.0033

Uranus 113346-10-04 10:46 G 43120112.77 43120112.95 43120113.13 0.0138 0.0007

Neptune 113346-11-26 10:32 G 43120165.82 43120165.94 43120166.07 0.0088 0.0040

Uranus 113346-12-31 17:44 G 43120201.06 43120201.24 43120201.42 0.0138 0.0019

Mars 113347-01-08 20:51 G 43120209.21 43120209.37 43120209.54 0.1722 0.0356

Neptune 113347-02-22 11:58 G 43120253.89 43120254.00 43120254.12 0.0088 0.0046

Uranus 113347-03-30 00:41 G 43120289.36 43120289.53 43120289.71 0.0138 0.0044

Neptune 113347-05-21 13:10 G 43120341.95 43120342.05 43120342.17 0.0088 0.0053

Uranus 113347-06-26 07:39 G 43120377.66 43120377.82 43120377.98 0.0138 0.0070

Neptune 113347-08-17 14:51 G 43120430.02 43120430.12 43120430.22 0.0088 0.0059

Uranus 113347-09-22 14:37 G 43120465.99 43120466.11 43120466.25 0.0138 0.0096

Neptune 113347-11-13 16:03 G 43120518.09 43120518.17 43120518.26 0.0088 0.0066

Uranus 113347-12-19 21:49 G 43120554.33 43120554.41 43120554.50 0.0138 0.0122

Neptune 113348-02-09 17:15 G 43120606.16 43120606.22 43120606.31 0.0088 0.0073

Neptune 113348-05-07 18:41 G 43120694.23 43120694.28 43120694.34 0.0088 0.0079

Neptune 113348-08-03 19:53 G 43120782.32 43120782.33 43120782.37 0.0088 0.0086

Saturn 113348-12-03 17:01 G 43120904.10 43120904.21 43120904.32 0.0269 0.0208

Saturn 113349-03-02 12:41 G 43120992.85 43120993.03 43120993.21 0.0269 0.0026

Saturn 113349-05-30 08:37 G 43121081.72 43121081.86 43121082.01 0.0269 0.0159

Moon 113349-07-21 08:22 G 43121133.75 43121133.85 43121133.95 0.2665 0.1156

Earth 113349-07-21 08:22 G 43121133.76 43121133.85 43121133.95 0.2658 0.1209 *

Jupiter 113350-08-11 03:49 G 43121519.60 43121519.66 43121519.73 0.0499 0.0459

Jupiter 113350-11-09 08:37 G 43121609.73 43121609.86 43121610.00 0.0502 0.0323

Mars 113355-05-04 16:32 G 43123247.14 43123247.19 43123247.24 0.1834 0.1636

Jupiter 113356-04-16 23:58 G 43123595.37 43123595.50 43123595.63 0.0527 0.0077

Mars 113356-05-30 19:53 G 43123639.33 43123639.33 43123639.33 0.1713 0.1713

Venus 113359-03-07 17:01 G 43124650.14 43124650.21 43124650.29 0.3697 0.2459

Jupiter 113362-08-28 06:56 G 43125919.62 43125919.79 43125919.97 0.0502 0.0129

Saturn 113363-12-31 10:03 G 43126409.84 43126409.92 43126410.01 0.0290 0.0225

Saturn 113364-03-28 22:46 G 43126498.32 43126498.45 43126498.59 0.0291 0.0055

Saturn 113364-06-25 11:29 G 43126586.86 43126586.98 43126587.10 0.0291 0.0116

Venus 113364-09-20 09:34 G 43126673.80 43126673.90 43126674.01 0.3694 0.0713

Saturn 113364-09-21 23:44 G 43126675.48 43126675.49 43126675.52 0.0291 0.0286

Mars 113366-08-30 12:27 G 43127382.94 43127383.02 43127383.10 0.1808 0.1262

Jupiter 113368-02-04 03:20 G 43127905.52 43127905.64 43127905.76 0.0528 0.0245

Jupiter 113368-05-03 11:15 G 43127994.89 43127994.97 43127995.05 0.0525 0.0413

Moon 113369-07-17 01:10 G 43128434.48 43128434.55 43128434.62 0.2666 0.1966

Earth 113369-07-17 01:39 G 43128434.49 43128434.57 43128434.65 0.2662 0.1814 *

Venus 113370-04-06 02:08 G 43128697.48 43128697.59 43128697.69 0.3690 0.1005

Venus 113371-10-21 03:05 G 43129260.56 43129260.63 43129260.70 0.3679 0.3237

Jupiter 113374-06-16 05:01 G 43130229.53 43130229.71 43130229.88 0.0500 0.0075

Venus 113375-10-20 18:13 G 43130721.19 43130721.26 43130721.34 0.3687 0.2661

Mars 113376-01-20 21:49 G 43130813.30 43130813.41 43130813.53 0.1816 0.0358

Mars 113377-02-16 23:15 G 43131206.36 43131206.47 43131206.59 0.1730 0.1252

Venus 113377-05-06 08:37 G 43131284.72 43131284.86 43131285.00 0.3684 0.0974

Saturn 113378-04-22 17:44 G 43131636.18 43131636.24 43131636.31 0.0270 0.0249

Saturn 113378-07-20 13:25 G 43131724.89 43131725.06 43131725.24 0.0270 0.0066

Saturn 113378-10-17 09:34 G 43131813.73 43131813.90 43131814.06 0.0270 0.0119

Jupiter 113379-11-23 06:27 G 43132215.69 43132215.77 43132215.85 0.0529 0.0423

Jupiter 113380-02-20 14:51 G 43132305.00 43132305.12 43132305.23 0.0526 0.0248

Earth 113382-07-19 19:39 G 43133185.20 43133185.32 43133185.43 0.2660 0.0155

Moon 113382-07-19 19:39 G 43133185.21 43133185.32 43133185.43 0.2667 0.0065 *

Moon 113385-01-22 02:51 G 43134102.47 43134102.62 43134102.77 0.2680 0.0485

Earth 113385-01-22 02:51 G 43134102.47 43134102.62 43134102.77 0.2673 0.0501 *

Mars 113385-06-12 07:10 G 43134243.69 43134243.80 43134243.91 0.1825 0.0570

Jupiter 113386-04-04 03:20 G 43134539.50 43134539.64 43134539.79 0.0499 0.0267

Mars 113386-07-09 21:49 G 43134636.24 43134636.41 43134636.57 0.1722 0.0172

Uranus 113388-10-20 13:39 G 43135470.02 43135470.07 43135470.13 0.0139 0.0126

Uranus 113389-01-16 17:29 G 43135558.14 43135558.23 43135558.32 0.0139 0.0106

Uranus 113389-04-14 21:05 G 43135646.28 43135646.38 43135646.50 0.0139 0.0087

Uranus 113389-07-12 00:56 G 43135734.42 43135734.54 43135734.67 0.0139 0.0066

Uranus 113389-10-08 04:46 G 43135822.57 43135822.70 43135822.83 0.0139 0.0046

Uranus 113390-01-04 08:22 G 43135910.72 43135910.85 43135910.99 0.0140 0.0027

Uranus 113390-04-02 12:13 G 43135998.87 43135999.01 43135999.14 0.0140 0.0008

Uranus 113390-06-29 15:49 G 43136087.02 43136087.16 43136087.30 0.0140 0.0013

Uranus 113390-09-25 19:25 G 43136175.18 43136175.31 43136175.44 0.0140 0.0033

Uranus 113390-12-22 23:01 G 43136263.34 43136263.46 43136263.59 0.0140 0.0052

Uranus 113391-03-21 02:37 G 43136351.50 43136351.61 43136351.73 0.0140 0.0072

Uranus 113391-06-17 06:13 G 43136439.66 43136439.76 43136439.87 0.0140 0.0092

Uranus 113391-09-13 09:49 G 43136527.84 43136527.91 43136528.00 0.0140 0.0111

Jupiter 113391-12-09 18:41 G 43136615.15 43136615.28 43136615.41 0.0527 0.0091

Uranus 113391-12-10 13:39 G 43136616.02 43136616.07 43136616.11 0.0140 0.0130

Saturn 113393-05-19 12:41 G 43137141.98 43137142.03 43137142.08 0.0289 0.0265

Saturn 113393-08-16 01:25 G 43137230.43 43137230.56 43137230.69 0.0290 0.0095

Saturn 113393-11-12 13:53 G 43137318.96 43137319.08 43137319.21 0.0290 0.0076

Saturn 113394-02-09 02:22 G 43137407.53 43137407.60 43137407.68 0.0290 0.0243

Mars 113394-11-02 16:32 G 43137674.13 43137674.19 43137674.25 0.1833 0.1517

Pluto 113394-12-21 19:53 G 43137723.26 43137723.33 43137723.43 0.0060 0.0054

Pluto 113395-03-19 21:05 G 43137811.28 43137811.38 43137811.54 0.0060 0.0045

Pluto 113395-06-15 23:01 G 43137899.30 43137899.46 43137899.62 0.0060 0.0035

Earth 113395-07-22 13:10 G 43137935.96 43137936.05 43137936.14 0.2658 0.1553

Moon 113395-07-22 13:53 G 43137936.00 43137936.08 43137936.17 0.2658 0.1621 *

Pluto 113395-09-12 00:13 G 43137987.34 43137987.51 43137987.70 0.0060 0.0026

Mars 113395-11-29 20:22 G 43138066.28 43138066.35 43138066.42 0.1713 0.1554

Pluto 113395-12-09 01:25 G 43138075.39 43138075.56 43138075.77 0.0060 0.0017

Pluto 113396-03-06 03:05 G 43138163.44 43138163.63 43138163.83 0.0060 0.0007

Pluto 113396-06-02 04:32 G 43138251.50 43138251.69 43138251.89 0.0060 0.0003

Pluto 113396-08-29 05:44 G 43138339.56 43138339.74 43138339.95 0.0060 0.0012

Pluto 113396-11-25 07:25 G 43138427.63 43138427.81 43138428.00 0.0060 0.0021

Pluto 113397-02-21 08:22 G 43138515.70 43138515.85 43138516.04 0.0060 0.0031

Pluto 113397-05-20 10:03 G 43138603.78 43138603.92 43138604.07 0.0060 0.0040

Pluto 113397-08-16 11:01 G 43138691.88 43138691.96 43138692.10 0.0060 0.0050

Pluto 113397-11-12 12:41 G 43138780.02 43138780.03 43138780.07 0.0060 0.0060

Jupiter 113398-01-21 01:53 G 43138849.52 43138849.58 43138849.65 0.0499 0.0459

Jupiter 113398-04-21 06:27 G 43138939.64 43138939.77 43138939.91 0.0502 0.0321

Jupiter 113403-09-28 22:46 G 43140925.32 43140925.45 43140925.58 0.0527 0.0069

Mars 113406-03-01 12:27 G 43141809.95 43141810.02 43141810.09 0.1807 0.1373

Saturn 113407-12-08 11:15 G 43142456.82 43142456.97 43142457.13 0.0270 0.0134

Saturn 113408-03-06 07:10 G 43142545.62 43142545.80 43142545.98 0.0269 0.0049

Saturn 113408-06-03 03:05 G 43142634.55 43142634.63 43142634.72 0.0269 0.0235

Jupiter 113410-02-08 05:01 G 43143249.54 43143249.71 43143249.89 0.0502 0.0129

Venus 113410-03-29 22:03 G 43143299.41 43143299.42 43143299.43 0.3700 0.3671

Jupiter 113415-07-18 02:08 G 43145235.47 43145235.59 43145235.71 0.0528 0.0240

Earth 113415-07-19 06:27 G 43145236.68 43145236.77 43145236.86 0.2661 0.1460

Moon 113415-07-19 06:56 G 43145236.70 43145236.79 43145236.89 0.2667 0.1365 *

Mars 113415-07-22 21:49 G 43145240.30 43145240.41 43145240.52 0.1816 0.0472

Venus 113415-10-13 14:51 G 43145323.03 43145323.12 43145323.21 0.3696 0.1880

Jupiter 113415-10-15 10:03 G 43145324.84 43145324.92 43145325.00 0.0524 0.0418

Mars 113416-08-19 00:13 G 43145633.42 43145633.51 43145633.60 0.1731 0.1437

Earth 113418-01-21 03:05 G 43146153.55 43146153.63 43146153.71 0.2671 0.2275

Moon 113418-01-21 03:49 G 43146153.56 43146153.66 43146153.75 0.2677 0.2091 *

Venus 113421-04-28 07:10 G 43147346.70 43147346.80 43147346.91 0.3693 0.0208

Jupiter 113421-11-27 03:49 G 43147559.48 43147559.66 43147559.83 0.0501 0.0064

Saturn 113423-01-04 02:37 G 43147962.50 43147962.61 43147962.73 0.0290 0.0153

Saturn 113423-04-02 15:20 G 43148051.01 43148051.14 43148051.28 0.0290 0.0019

Saturn 113423-06-30 03:49 G 43148139.56 43148139.66 43148139.77 0.0291 0.0187

Mars 113424-12-12 07:10 G 43148670.69 43148670.80 43148670.92 0.1825 0.0459

Mars 113426-01-08 22:32 G 43149063.27 43149063.44 43149063.61 0.1722 0.0010

Neptune 113426-09-21 05:58 G 43149318.70 43149318.75 43149318.84 0.0089 0.0083

Venus 113426-11-11 23:44 G 43149370.39 43149370.49 43149370.58 0.3689 0.1544

Neptune 113426-12-18 09:49 G 43149406.80 43149406.91 43149407.01 0.0089 0.0073

Neptune 113427-03-16 12:41 G 43149494.92 43149495.03 43149495.17 0.0089 0.0064

Jupiter 113427-05-06 05:29 G 43149545.65 43149545.73 43149545.81 0.0529 0.0412

Neptune 113427-06-12 16:03 G 43149583.03 43149583.17 43149583.33 0.0089 0.0054

Jupiter 113427-08-03 13:39 G 43149634.96 43149635.07 43149635.19 0.0525 0.0257

Neptune 113427-09-08 19:25 G 43149671.16 43149671.31 43149671.48 0.0089 0.0045

Neptune 113427-12-05 22:46 G 43149759.28 43149759.45 43149759.62 0.0089 0.0035

Neptune 113428-03-03 02:08 G 43149847.41 43149847.59 43149847.77 0.0089 0.0026

Venus 113428-05-28 04:17 G 43149933.55 43149933.68 43149933.80 0.3680 0.1963

Neptune 113428-05-30 05:29 G 43149935.55 43149935.73 43149935.91 0.0089 0.0016

Earth 113428-07-21 00:27 G 43149987.41 43149987.52 43149987.63 0.2660 0.0250

Moon 113428-07-21 00:56 G 43149987.43 43149987.54 43149987.65 0.2658 0.0334 *

Neptune 113428-08-26 08:51 G 43150023.68 43150023.87 43150024.05 0.0089 0.0007

Neptune 113428-11-22 12:13 G 43150111.82 43150112.01 43150112.19 0.0089 0.0003

Neptune 113429-02-18 15:20 G 43150199.96 43150200.14 43150200.33 0.0089 0.0013

Neptune 113429-05-17 18:41 G 43150288.11 43150288.28 43150288.47 0.0089 0.0022

Uranus 113429-08-10 07:53 G 43150372.77 43150372.83 43150372.92 0.0139 0.0127

Neptune 113429-08-13 22:03 G 43150376.25 43150376.42 43150376.60 0.0089 0.0032

Uranus 113429-11-06 14:37 G 43150461.00 43150461.11 43150461.25 0.0139 0.0102

Neptune 113429-11-10 01:25 G 43150464.40 43150464.56 43150464.73 0.0089 0.0041

Uranus 113430-02-02 21:34 G 43150549.26 43150549.40 43150549.56 0.0139 0.0076

Neptune 113430-02-06 04:32 G 43150552.56 43150552.69 43150552.86 0.0089 0.0052

Uranus 113430-05-02 04:32 G 43150637.52 43150637.69 43150637.86 0.0138 0.0050

Neptune 113430-05-05 08:22 G 43150640.71 43150640.85 43150640.99 0.0089 0.0061

Uranus 113430-07-29 11:29 G 43150725.80 43150725.98 43150726.16 0.0138 0.0025

Neptune 113430-08-01 11:29 G 43150728.88 43150728.98 43150729.11 0.0089 0.0071

Uranus 113430-10-25 18:27 G 43150814.08 43150814.27 43150814.45 0.0138 0.0002

Neptune 113430-10-28 14:51 G 43150817.06 43150817.12 43150817.22 0.0089 0.0081

Uranus 113431-01-22 01:25 G 43150902.38 43150902.56 43150902.74 0.0138 0.0027

Earth 113431-01-24 09:20 G 43150904.75 43150904.89 43150905.03 0.2673 0.1182

Moon 113431-01-24 11:01 G 43150904.82 43150904.96 43150905.09 0.2676 0.1325 *

Uranus 113431-04-20 08:08 G 43150990.68 43150990.84 43150991.02 0.0138 0.0053

Uranus 113431-07-17 15:05 G 43151078.99 43151079.13 43151079.29 0.0138 0.0079

Uranus 113431-10-13 22:17 G 43151167.31 43151167.43 43151167.55 0.0138 0.0104

Uranus 113432-01-10 05:29 G 43151255.67 43151255.73 43151255.79 0.0138 0.0130

Venus 113432-05-27 15:49 G 43151394.11 43151394.16 43151394.21 0.3686 0.3189

Jupiter 113433-09-15 02:08 G 43151869.44 43151869.59 43151869.73 0.0499 0.0261

Venus 113433-12-12 10:03 G 43151957.80 43151957.92 43151958.03 0.3685 0.2321

Mars 113434-05-04 16:32 G 43152101.11 43152101.19 43152101.26 0.1834 0.1413

Mars 113435-05-31 21:20 G 43152493.29 43152493.39 43152493.49 0.1714 0.1365

Saturn 113437-04-26 11:58 G 43153188.87 43153189.00 43153189.14 0.0270 0.0175

Saturn 113437-07-24 07:53 G 43153277.65 43153277.83 43153278.01 0.0270 0.0010

Saturn 113437-10-21 03:49 G 43153366.55 43153366.66 43153366.80 0.0270 0.0195

Jupiter 113439-05-22 17:01 G 43153945.08 43153945.21 43153945.34 0.0527 0.0084

Earth 113441-07-23 17:58 G 43154738.18 43154738.25 43154738.33 0.2658 0.1899

Moon 113441-07-23 18:13 G 43154738.19 43154738.26 43154738.33 0.2651 0.1965 *

Jupiter 113445-07-04 00:27 G 43156179.46 43156179.52 43156179.60 0.0499 0.0451

Mars 113445-08-30 12:27 G 43156236.95 43156237.02 43156237.08 0.1808 0.1484

Jupiter 113445-10-02 05:15 G 43156269.58 43156269.72 43156269.85 0.0502 0.0328

Jupiter 113451-03-10 20:51 G 43158255.24 43158255.37 43158255.50 0.0528 0.0078

Saturn 113452-05-23 05:29 G 43158694.63 43158694.73 43158694.84 0.0289 0.0188

Saturn 113452-08-19 18:13 G 43158783.13 43158783.26 43158783.40 0.0290 0.0018

Saturn 113452-11-16 06:41 G 43158871.67 43158871.78 43158871.90 0.0290 0.0151

Mars 113455-01-20 22:03 G 43159667.31 43159667.42 43159667.53 0.1816 0.0591

Mars 113456-02-18 00:56 G 43160060.48 43160060.54 43160060.60 0.1731 0.1611

Jupiter 113457-07-21 02:51 G 43160579.45 43160579.62 43160579.80 0.0501 0.0124

Earth 113461-07-19 11:15 G 43162038.87 43162038.97 43162039.08 0.2661 0.1103

Moon 113461-07-19 11:58 G 43162038.90 43162039.00 43162039.11 0.2658 0.0927 *

Jupiter 113462-12-28 00:41 G 43162565.42 43162565.53 43162565.65 0.0528 0.0239

Jupiter 113463-03-27 08:37 G 43162654.79 43162654.86 43162654.94 0.0525 0.0422

Earth 113464-01-22 09:34 G 43162955.78 43162955.90 43162956.02 0.2672 0.1606

Moon 113464-01-22 11:15 G 43162955.84 43162955.97 43162956.10 0.2671 0.1337 *

Mars 113464-06-12 07:10 G 43163097.69 43163097.80 43163097.91 0.1824 0.0347

Mars 113465-07-09 23:15 G 43163490.30 43163490.47 43163490.64 0.1722 0.0182

Saturn 113466-09-13 10:32 G 43163920.86 43163920.94 43163921.03 0.0270 0.0237

Venus 113466-11-03 19:53 G 43163972.27 43163972.33 43163972.39 0.3699 0.3079

Saturn 113466-12-11 06:13 G 43164009.59 43164009.76 43164009.94 0.0270 0.0055

Saturn 113467-03-10 02:08 G 43164098.44 43164098.59 43164098.76 0.0269 0.0130

Jupiter 113469-05-09 01:39 G 43164889.39 43164889.57 43164889.74 0.0501 0.0068

Venus 113472-05-19 12:27 G 43165995.92 43165996.02 43165996.12 0.3695 0.1314

Uranus 113472-11-10 20:51 G 43166171.31 43166171.37 43166171.45 0.0139 0.0121

Uranus 113473-02-07 00:41 G 43166259.44 43166259.53 43166259.63 0.0139 0.0101

Uranus 113473-05-06 04:17 G 43166347.58 43166347.68 43166347.80 0.0139 0.0082

Uranus 113473-08-02 08:08 G 43166435.72 43166435.84 43166435.97 0.0139 0.0061

Uranus 113473-10-29 11:58 G 43166523.87 43166524.00 43166524.14 0.0140 0.0041

Mars 113473-11-02 16:32 G 43166528.11 43166528.19 43166528.27 0.1833 0.1290

Uranus 113474-01-25 15:49 G 43166612.02 43166612.16 43166612.29 0.0140 0.0021

Uranus 113474-04-23 19:25 G 43166700.17 43166700.31 43166700.45 0.0140 0.0002

Uranus 113474-07-20 23:01 G 43166788.33 43166788.46 43166788.60 0.0140 0.0019

Moon 113474-07-22 05:01 G 43166789.60 43166789.71 43166789.82 0.2652 0.0514

Earth 113474-07-22 05:15 G 43166789.61 43166789.72 43166789.82 0.2659 0.0594 *

Jupiter 113474-10-16 04:03 G 43166875.59 43166875.67 43166875.75 0.0529 0.0411

Uranus 113474-10-17 02:51 G 43166876.49 43166876.62 43166876.75 0.0140 0.0038

Mars 113474-11-29 22:03 G 43166920.30 43166920.42 43166920.54 0.1714 0.1187

Uranus 113475-01-13 06:27 G 43166964.65 43166964.77 43166964.89 0.0140 0.0058

Jupiter 113475-01-13 12:27 G 43166964.90 43166965.02 43166965.13 0.0526 0.0258

Uranus 113475-04-11 10:03 G 43167052.81 43167052.92 43167053.03 0.0140 0.0077

Uranus 113475-07-08 13:39 G 43167140.97 43167141.07 43167141.17 0.0140 0.0097

Uranus 113475-10-04 17:15 G 43167229.15 43167229.22 43167229.30 0.0140 0.0116

Uranus 113475-12-31 20:37 G 43167317.34 43167317.36 43167317.40 0.0140 0.0136

Earth 113477-01-24 15:49 G 43167707.05 43167707.16 43167707.27 0.2674 0.1865

Moon 113477-01-24 16:03 G 43167707.06 43167707.17 43167707.28 0.2667 0.1917 *

Venus 113477-12-03 05:01 G 43168019.60 43168019.71 43168019.81 0.3692 0.0410

Jupiter 113481-02-25 00:27 G 43169199.37 43169199.52 43169199.67 0.0500 0.0256

Saturn 113481-10-10 06:41 G 43169426.72 43169426.78 43169426.86 0.0290 0.0246

Saturn 113482-01-06 19:39 G 43169515.19 43169515.32 43169515.45 0.0290 0.0075

Saturn 113482-04-05 08:08 G 43169603.72 43169603.84 43169603.97 0.0290 0.0095

Saturn 113482-07-02 20:37 G 43169692.31 43169692.36 43169692.42 0.0291 0.0263

Venus 113483-06-18 21:20 G 43170043.30 43170043.39 43170043.48 0.3688 0.2086

Venus 113485-01-02 05:29 G 43170606.58 43170606.73 43170606.87 0.3682 0.0655

Mars 113485-02-28 12:27 G 43170663.97 43170664.02 43170664.07 0.1807 0.1595

Jupiter 113486-11-01 15:49 G 43171275.04 43171275.16 43171275.29 0.0526 0.0094

Moon 113487-07-24 22:17 G 43171540.36 43171540.43 43171540.49 0.2656 0.2188

Earth 113487-07-24 22:46 G 43171540.40 43171540.45 43171540.51 0.2658 0.2246 *

Pluto 113490-12-13 14:51 G 43172778.06 43172778.12 43172778.20 0.0085 0.0071

Pluto 113491-03-11 16:03 G 43172866.08 43172866.17 43172866.28 0.0085 0.0053

Pluto 113491-06-07 17:29 G 43172954.11 43172954.23 43172954.35 0.0085 0.0035

Pluto 113491-09-03 18:41 G 43173042.15 43173042.28 43173042.41 0.0085 0.0017

Pluto 113491-11-30 19:53 G 43173130.20 43173130.33 43173130.46 0.0085 0.0001

Pluto 113492-02-26 21:05 G 43173218.25 43173218.38 43173218.51 0.0084 0.0019

Pluto 113492-05-24 22:17 G 43173306.31 43173306.43 43173306.55 0.0084 0.0036

Pluto 113492-08-20 23:15 G 43173394.38 43173394.47 43173394.58 0.0084 0.0054

Pluto 113492-11-17 00:41 G 43173482.46 43173482.53 43173482.59 0.0084 0.0072

Jupiter 113492-12-13 22:46 G 43173509.38 43173509.45 43173509.53 0.0499 0.0447

Jupiter 113493-03-14 03:20 G 43173599.51 43173599.64 43173599.78 0.0502 0.0332

Earth 113494-07-17 22:17 G 43174090.39 43174090.43 43174090.47 0.2662 0.2454

Moon 113494-07-17 22:46 G 43174090.40 43174090.45 43174090.50 0.2657 0.2344 *

Mars 113494-07-21 21:49 G 43174094.30 43174094.41 43174094.52 0.1816 0.0690

Saturn 113496-04-29 07:10 G 43174741.63 43174741.80 43174741.97 0.0270 0.0095

Saturn 113496-07-27 03:05 G 43174830.46 43174830.63 43174830.80 0.0270 0.0089

Jupiter 113498-08-20 18:56 G 43175585.16 43175585.29 43175585.42 0.0528 0.0086

Mars 113503-12-13 07:25 G 43177524.69 43177524.81 43177524.92 0.1824 0.0230

Jupiter 113505-01-01 01:25 G 43177909.39 43177909.56 43177909.73 0.0501 0.0130

Mars 113505-01-09 00:13 G 43177917.34 43177917.51 43177917.67 0.1723 0.0374

Neptune 113507-01-25 06:56 G 43178663.77 43178663.79 43178663.81 0.0088 0.0087

Neptune 113507-04-23 07:53 G 43178751.79 43178751.83 43178751.91 0.0088 0.0081

Neptune 113507-07-20 09:34 G 43178839.83 43178839.90 43178839.99 0.0088 0.0073

Moon 113507-07-21 15:49 G 43178841.05 43178841.16 43178841.27 0.2655 0.0809

Earth 113507-07-21 16:17 G 43178841.07 43178841.18 43178841.28 0.2661 0.0745 *

Neptune 113507-10-16 11:01 G 43178927.88 43178927.96 43178928.06 0.0088 0.0066

Neptune 113508-01-12 12:27 G 43179015.93 43179016.02 43179016.13 0.0088 0.0059

Neptune 113508-04-09 14:08 G 43179103.98 43179104.09 43179104.20 0.0088 0.0052

Neptune 113508-07-06 15:34 G 43179192.03 43179192.15 43179192.27 0.0088 0.0045

Neptune 113508-10-02 16:46 G 43179280.09 43179280.20 43179280.34 0.0088 0.0039

Neptune 113508-12-29 18:27 G 43179368.14 43179368.27 43179368.40 0.0088 0.0032

Neptune 113509-03-27 19:53 G 43179456.20 43179456.33 43179456.46 0.0088 0.0025

Neptune 113509-06-23 21:20 G 43179544.26 43179544.39 43179544.52 0.0088 0.0018

Neptune 113509-09-19 22:46 G 43179632.31 43179632.45 43179632.59 0.0088 0.0012

Neptune 113509-12-17 00:13 G 43179720.37 43179720.51 43179720.65 0.0088 0.0005

Moon 113510-01-23 16:03 G 43179758.02 43179758.17 43179758.31 0.2666 0.1049

Earth 113510-01-23 16:03 G 43179758.03 43179758.17 43179758.32 0.2672 0.0928 *

Neptune 113510-03-15 01:39 G 43179808.43 43179808.57 43179808.70 0.0088 0.0002

Jupiter 113510-06-09 22:32 G 43179895.33 43179895.44 43179895.56 0.0529 0.0252

Neptune 113510-06-11 03:05 G 43179896.49 43179896.63 43179896.76 0.0088 0.0009

Neptune 113510-09-07 04:17 G 43179984.55 43179984.68 43179984.82 0.0088 0.0016

Jupiter 113510-09-07 06:41 G 43179984.70 43179984.78 43179984.86 0.0525 0.0410 *

Neptune 113510-12-04 05:44 G 43180072.61 43180072.74 43180072.88 0.0088 0.0022

Saturn 113511-02-28 10:03 G 43180158.89 43180158.92 43180158.97 0.0289 0.0275

Neptune 113511-03-02 07:10 G 43180160.67 43180160.80 43180160.93 0.0088 0.0029

Saturn 113511-05-27 23:01 G 43180247.33 43180247.46 43180247.59 0.0289 0.0104

Neptune 113511-05-29 08:37 G 43180248.74 43180248.86 43180248.99 0.0088 0.0035

Saturn 113511-08-24 11:44 G 43180335.85 43180335.99 43180336.12 0.0290 0.0066

Neptune 113511-08-25 09:49 G 43180336.80 43180336.91 43180337.04 0.0088 0.0042

Saturn 113511-11-20 23:58 G 43180424.43 43180424.50 43180424.58 0.0290 0.0233

Neptune 113511-11-21 11:15 G 43180424.87 43180424.97 43180425.09 0.0088 0.0049

Neptune 113512-02-17 12:41 G 43180512.93 43180513.03 43180513.14 0.0088 0.0055

Neptune 113512-05-15 13:53 G 43180601.00 43180601.08 43180601.19 0.0088 0.0062

Neptune 113512-08-11 15:34 G 43180689.07 43180689.15 43180689.23 0.0088 0.0068

Neptune 113512-11-07 16:46 G 43180777.14 43180777.20 43180777.28 0.0088 0.0075

Neptune 113513-02-03 18:13 G 43180865.22 43180865.26 43180865.31 0.0088 0.0081

Neptune 113513-05-02 19:39 G 43180953.32 43180953.32 43180953.33 0.0088 0.0088

Mars 113513-05-04 16:32 G 43180955.10 43180955.19 43180955.28 0.1833 0.1179

Uranus 113513-08-31 16:03 G 43181074.08 43181074.17 43181074.27 0.0139 0.0117

Uranus 113513-11-27 22:46 G 43181162.32 43181162.45 43181162.59 0.0139 0.0092

Uranus 113514-02-24 05:29 G 43181250.58 43181250.73 43181250.90 0.0139 0.0067

Uranus 113514-05-23 12:27 G 43181338.85 43181339.02 43181339.20 0.0138 0.0041

Mars 113514-05-31 22:46 G 43181347.31 43181347.45 43181347.58 0.1714 0.1027

Uranus 113514-08-19 19:25 G 43181427.13 43181427.31 43181427.49 0.0138 0.0016

Uranus 113514-11-16 02:22 G 43181515.42 43181515.60 43181515.78 0.0138 0.0010

Uranus 113515-02-12 09:05 G 43181603.71 43181603.88 43181604.07 0.0138 0.0037

Uranus 113515-05-11 16:03 G 43181692.02 43181692.17 43181692.35 0.0138 0.0062

Uranus 113515-08-07 23:01 G 43181780.33 43181780.46 43181780.61 0.0138 0.0088

Uranus 113515-11-04 05:58 G 43181868.66 43181868.75 43181868.87 0.0138 0.0114

Jupiter 113516-10-19 23:15 G 43182219.30 43182219.47 43182219.64 0.0500 0.0074

Moon 113520-07-23 09:20 G 43183591.78 43183591.89 43183591.99 0.2659 0.0847

Earth 113520-07-23 10:03 G 43183591.81 43183591.92 43183592.02 0.2659 0.0943 *

Jupiter 113522-03-29 02:22 G 43184205.52 43184205.60 43184205.69 0.0529 0.0414

Jupiter 113522-06-26 10:46 G 43184294.84 43184294.95 43184295.07 0.0526 0.0257

Moon 113523-01-26 20:51 G 43184509.31 43184509.37 43184509.43 0.2671 0.2431

Earth 113523-01-26 22:17 G 43184509.39 43184509.43 43184509.48 0.2674 0.2564 *

Venus 113523-06-11 17:44 G 43184645.16 43184645.24 43184645.31 0.3698 0.2498

Mars 113524-08-30 12:27 G 43185090.98 43185091.02 43185091.05 0.1807 0.1705

Saturn 113525-09-17 05:58 G 43185473.61 43185473.75 43185473.90 0.0270 0.0153

Saturn 113525-12-15 01:53 G 43185562.40 43185562.58 43185562.76 0.0270 0.0031

Saturn 113526-03-13 21:49 G 43185651.31 43185651.41 43185651.53 0.0269 0.0217

Jupiter 113528-08-07 22:03 G 43186529.27 43186529.42 43186529.57 0.0500 0.0262

Venus 113528-12-25 10:17 G 43186668.82 43186668.93 43186669.03 0.3694 0.0751

Moon 113533-07-26 03:20 G 43188342.61 43188342.64 43188342.67 0.2664 0.2525

Earth 113533-07-26 03:34 G 43188342.63 43188342.65 43188342.67 0.2657 0.2598 *

Mars 113534-01-20 21:49 G 43188521.31 43188521.41 43188521.52 0.1816 0.0810

Jupiter 113534-04-14 14:22 G 43188604.97 43188605.10 43188605.23 0.0527 0.0092

Venus 113534-07-11 02:37 G 43188692.51 43188692.61 43188692.71 0.3691 0.0966

Venus 113536-01-25 01:10 G 43189255.51 43189255.55 43189255.60 0.3678 0.3482

Venus 113540-01-24 18:56 G 43190716.22 43190716.29 43190716.36 0.3687 0.2627

Jupiter 113540-05-26 20:51 G 43190839.30 43190839.37 43190839.45 0.0499 0.0448

Moon 113540-07-19 02:37 G 43190892.54 43190892.61 43190892.68 0.2658 0.2114

Earth 113540-07-19 03:05 G 43190892.57 43190892.63 43190892.70 0.2662 0.2091 *

Jupiter 113540-08-25 01:25 G 43190929.43 43190929.56 43190929.70 0.0502 0.0332

Saturn 113540-10-14 00:27 G 43190979.41 43190979.52 43190979.63 0.0290 0.0161

Saturn 113541-01-10 12:56 G 43191067.91 43191068.04 43191068.18 0.0290 0.0014

Saturn 113541-04-09 01:39 G 43191156.46 43191156.57 43191156.67 0.0290 0.0178

Venus 113541-08-10 06:41 G 43191279.64 43191279.78 43191279.92 0.3683 0.0667

Mars 113543-06-13 07:10 G 43191951.69 43191951.80 43191951.92 0.1824 0.0124

Mars 113544-07-10 00:56 G 43192344.38 43192344.54 43192344.70 0.1723 0.0549

Jupiter 113546-01-31 17:58 G 43192915.12 43192915.25 43192915.38 0.0527 0.0079

Jupiter 113552-06-12 23:29 G 43195239.32 43195239.48 43195239.66 0.0501 0.0132

Mars 113552-11-02 16:32 G 43195382.10 43195382.19 43195382.28 0.1833 0.1066

Moon 113553-07-21 20:22 G 43195643.24 43195643.35 43195643.46 0.2662 0.0573

Earth 113553-07-21 21:05 G 43195643.27 43195643.38 43195643.49 0.2660 0.0388 *

Mars 113553-11-29 23:44 G 43195774.34 43195774.49 43195774.63 0.1714 0.0838

Saturn 113555-02-04 06:56 G 43196205.67 43196205.79 43196205.91 0.0270 0.0194

Saturn 113555-05-04 02:51 G 43196294.44 43196294.62 43196294.80 0.0270 0.0012

Saturn 113555-07-31 22:46 G 43196383.31 43196383.45 43196383.59 0.0270 0.0176

Moon 113556-01-24 20:51 G 43196560.22 43196560.37 43196560.52 0.2673 0.0551

Earth 113556-01-24 22:32 G 43196560.29 43196560.44 43196560.60 0.2672 0.0256 *

Uranus 113556-09-05 00:41 G 43196784.50 43196784.53 43196784.57 0.0139 0.0134

Uranus 113556-12-02 04:32 G 43196872.62 43196872.69 43196872.77 0.0139 0.0114

Uranus 113557-02-28 08:22 G 43196960.75 43196960.85 43196960.95 0.0139 0.0094

Uranus 113557-05-27 11:58 G 43197048.89 43197049.00 43197049.13 0.0139 0.0075

Uranus 113557-08-23 15:49 G 43197137.04 43197137.16 43197137.29 0.0139 0.0055

Uranus 113557-11-19 19:39 G 43197225.19 43197225.32 43197225.45 0.0140 0.0034

Jupiter 113557-11-19 20:37 G 43197225.25 43197225.36 43197225.48 0.0529 0.0262 *

Uranus 113558-02-15 23:15 G 43197313.34 43197313.47 43197313.61 0.0140 0.0015

Jupiter 113558-02-17 04:46 G 43197314.62 43197314.70 43197314.78 0.0525 0.0401

Uranus 113558-05-15 03:05 G 43197401.49 43197401.63 43197401.77 0.0140 0.0005

Uranus 113558-08-11 06:41 G 43197489.65 43197489.78 43197489.92 0.0140 0.0025

Uranus 113558-11-07 10:17 G 43197577.81 43197577.93 43197578.06 0.0140 0.0045

Uranus 113559-02-03 14:08 G 43197665.97 43197666.09 43197666.21 0.0140 0.0064

Uranus 113559-05-02 17:29 G 43197754.13 43197754.23 43197754.35 0.0140 0.0084

Uranus 113559-07-29 21:20 G 43197842.30 43197842.39 43197842.48 0.0140 0.0103

Uranus 113559-10-26 00:41 G 43197930.48 43197930.53 43197930.60 0.0140 0.0123

Jupiter 113564-03-31 21:49 G 43199549.23 43199549.41 43199549.58 0.0500 0.0068

Moon 113566-07-24 14:51 G 43200394.02 43200394.12 43200394.21 0.2666 0.1362

Earth 113566-07-24 14:51 G 43200394.02 43200394.12 43200394.21 0.2659 0.1290 *

Jupiter 113569-09-08 00:13 G 43201535.43 43201535.51 43201535.59 0.0530 0.0430

Jupiter 113569-12-06 08:37 G 43201624.75 43201624.86 43201624.98 0.0526 0.0242

Saturn 113570-03-03 04:03 G 43201711.57 43201711.67 43201711.77 0.0289 0.0187

Saturn 113570-05-30 16:46 G 43201800.06 43201800.20 43201800.33 0.0289 0.0018

Saturn 113570-08-27 05:15 G 43201888.61 43201888.72 43201888.84 0.0290 0.0151

Mars 113573-07-21 21:49 G 43202948.32 43202948.41 43202948.51 0.1815 0.0927

Jupiter 113576-01-18 19:25 G 43203859.17 43203859.31 43203859.46 0.0499 0.0271

Venus 113580-01-16 15:20 G 43205318.05 43205318.14 43205318.23 0.3697 0.1917

Jupiter 113581-09-24 12:41 G 43205934.90 43205935.03 43205935.16 0.0527 0.0086

Mars 113582-12-12 07:10 G 43206378.69 43206378.80 43206378.92 0.1824 0.0049

Mars 113584-01-09 01:39 G 43206771.42 43206771.57 43206771.72 0.1723 0.0729

Saturn 113584-06-23 06:41 G 43206937.71 43206937.78 43206937.85 0.0270 0.0244

Saturn 113584-09-20 02:22 G 43207026.42 43207026.60 43207026.78 0.0270 0.0062

Saturn 113584-12-17 22:17 G 43207115.27 43207115.43 43207115.59 0.0270 0.0122

Venus 113585-08-01 07:53 G 43207341.73 43207341.83 43207341.94 0.3693 0.0188

Moon 113586-07-20 07:25 G 43207694.73 43207694.81 43207694.89 0.2667 0.1823

Earth 113586-07-20 07:53 G 43207694.75 43207694.83 43207694.92 0.2662 0.1732 *

Jupiter 113587-11-06 18:13 G 43208169.20 43208169.26 43208169.33 0.0499 0.0457

Jupiter 113588-02-04 22:46 G 43208259.32 43208259.45 43208259.59 0.0502 0.0321

Venus 113591-02-15 00:27 G 43209365.42 43209365.52 43209365.61 0.3690 0.1523

Neptune 113591-03-23 01:10 G 43209401.53 43209401.55 43209401.57 0.0089 0.0089

Neptune 113591-06-19 04:03 G 43209489.60 43209489.67 43209489.77 0.0089 0.0080

Neptune 113591-09-15 07:10 G 43209577.71 43209577.80 43209577.93 0.0089 0.0071

Neptune 113591-12-12 10:32 G 43209665.82 43209665.94 43209666.09 0.0089 0.0061

Neptune 113592-03-09 13:53 G 43209753.94 43209754.08 43209754.24 0.0089 0.0052

Mars 113592-05-03 16:32 G 43209809.09 43209809.19 43209809.29 0.1832 0.0952

Neptune 113592-06-05 17:15 G 43209842.06 43209842.22 43209842.39 0.0089 0.0042

Venus 113592-08-31 02:22 G 43209928.49 43209928.60 43209928.72 0.3679 0.2209

Neptune 113592-09-01 20:37 G 43209930.19 43209930.36 43209930.54 0.0089 0.0033

Neptune 113592-11-28 23:44 G 43210018.32 43210018.49 43210018.68 0.0089 0.0024

Neptune 113593-02-25 03:05 G 43210106.45 43210106.63 43210106.82 0.0089 0.0014

Neptune 113593-05-24 06:41 G 43210194.59 43210194.78 43210194.96 0.0089 0.0005

Mars 113593-05-31 00:27 G 43210201.37 43210201.52 43210201.67 0.1715 0.0656

Jupiter 113593-07-13 16:17 G 43210245.05 43210245.18 43210245.31 0.0528 0.0082

Neptune 113593-08-20 09:49 G 43210282.73 43210282.91 43210283.10 0.0089 0.0006

Neptune 113593-11-16 13:10 G 43210370.87 43210371.05 43210371.24 0.0089 0.0015

Neptune 113594-02-12 16:32 G 43210459.01 43210459.19 43210459.37 0.0089 0.0024

Neptune 113594-05-11 19:39 G 43210547.16 43210547.32 43210547.51 0.0089 0.0035

Neptune 113594-08-07 23:15 G 43210635.31 43210635.47 43210635.64 0.0089 0.0044

Neptune 113594-11-04 02:22 G 43210723.46 43210723.60 43210723.76 0.0089 0.0054

Neptune 113595-01-31 05:44 G 43210811.62 43210811.74 43210811.89 0.0089 0.0063

Neptune 113595-04-29 09:20 G 43210899.79 43210899.89 43210900.01 0.0089 0.0073

Neptune 113595-07-26 12:41 G 43210987.97 43210988.03 43210988.11 0.0089 0.0083

Venus 113596-08-30 16:32 G 43211389.14 43211389.19 43211389.25 0.3686 0.3167

Uranus 113597-06-24 17:15 G 43211687.18 43211687.22 43211687.28 0.0139 0.0133

Uranus 113597-09-20 23:58 G 43211775.40 43211775.50 43211775.63 0.0139 0.0108

Uranus 113597-12-18 06:56 G 43211863.65 43211863.79 43211863.94 0.0139 0.0082

Uranus 113598-03-16 13:53 G 43211951.92 43211952.08 43211952.25 0.0139 0.0057

Venus 113598-03-17 07:53 G 43211952.71 43211952.83 43211952.96 0.3684 0.2009

Uranus 113598-06-12 20:37 G 43212040.19 43212040.36 43212040.54 0.0138 0.0032

Uranus 113598-09-09 03:34 G 43212128.47 43212128.65 43212128.84 0.0138 0.0006

Uranus 113598-12-06 10:32 G 43212216.76 43212216.94 43212217.12 0.0138 0.0020

Uranus 113599-03-04 17:15 G 43212305.06 43212305.22 43212305.40 0.0138 0.0047

Uranus 113599-06-01 00:13 G 43212393.37 43212393.51 43212393.68 0.0138 0.0072

Saturn 113599-07-21 05:15 G 43212443.65 43212443.72 43212443.80 0.0290 0.0244

Earth 113599-07-23 01:53 G 43212445.47 43212445.58 43212445.69 0.2660 0.0057

Moon 113599-07-23 02:08 G 43212445.48 43212445.59 43212445.70 0.2666 0.0010 *

Uranus 113599-08-28 07:10 G 43212481.69 43212481.80 43212481.94 0.0138 0.0098

Saturn 113599-10-17 17:58 G 43212532.12 43212532.25 43212532.39 0.0290 0.0074

Jupiter 113599-11-23 21:20 G 43212569.22 43212569.39 43212569.56 0.0501 0.0126

Uranus 113599-11-24 14:08 G 43212570.03 43212570.09 43212570.19 0.0138 0.0124

Saturn 113600-01-14 06:41 G 43212620.65 43212620.78 43212620.91 0.0290 0.0096

Saturn 113600-04-11 19:10 G 43212709.25 43212709.30 43212709.35 0.0291 0.0264

Moon 113602-01-25 05:01 G 43213362.56 43213362.71 43213362.86 0.2679 0.0505

Earth 113602-01-25 05:01 G 43213362.56 43213362.71 43213362.87 0.2673 0.0431 *

Jupiter 113605-05-01 19:25 G 43214555.20 43214555.31 43214555.43 0.0528 0.0255

Jupiter 113605-07-30 03:34 G 43214644.57 43214644.65 43214644.73 0.0525 0.0407

Jupiter 113611-09-11 19:39 G 43216879.15 43216879.32 43216879.50 0.0500 0.0069

Earth 113612-07-24 19:39 G 43217196.23 43217196.32 43217196.40 0.2659 0.1640

Moon 113612-07-24 20:22 G 43217196.27 43217196.35 43217196.43 0.2660 0.1749 *

Mars 113613-01-19 21:49 G 43217375.32 43217375.41 43217375.50 0.1815 0.1030

Saturn 113614-02-07 03:05 G 43217758.46 43217758.63 43217758.80 0.0270 0.0104

Saturn 113614-05-06 23:01 G 43217847.29 43217847.46 43217847.63 0.0270 0.0080

Saturn 113614-08-03 18:56 G 43217936.28 43217936.29 43217936.32 0.0270 0.0267

Jupiter 113617-02-17 22:03 G 43218865.35 43218865.42 43218865.50 0.0530 0.0442

Jupiter 113617-05-18 06:41 G 43218954.66 43218954.78 43218954.90 0.0526 0.0232

Mars 113622-06-12 07:10 G 43220805.69 43220805.80 43220805.92 0.1824 0.0138

Jupiter 113623-06-30 17:58 G 43221189.10 43221189.25 43221189.40 0.0499 0.0264

Mars 113623-07-10 02:22 G 43221198.46 43221198.60 43221198.75 0.1723 0.0916

Saturn 113628-12-07 09:05 G 43223175.84 43223175.88 43223175.93 0.0289 0.0268

Saturn 113629-03-05 22:03 G 43223264.29 43223264.42 43223264.54 0.0289 0.0098

Jupiter 113629-03-06 10:17 G 43223264.80 43223264.93 43223265.06 0.0527 0.0070

Saturn 113629-06-02 10:32 G 43223352.81 43223352.94 43223353.07 0.0290 0.0072

Saturn 113629-08-29 23:01 G 43223441.39 43223441.46 43223441.54 0.0290 0.0239

Venus 113631-02-06 20:37 G 43223967.30 43223967.36 43223967.41 0.3700 0.3114

Mars 113631-11-02 16:32 G 43224236.09 43224236.19 43224236.29 0.1832 0.0833

Earth 113632-07-20 12:56 G 43224496.94 43224497.04 43224497.13 0.2661 0.1369

Moon 113632-07-20 13:25 G 43224496.96 43224497.06 43224497.15 0.2666 0.1356 *

Mars 113632-11-29 00:56 G 43224628.38 43224628.54 43224628.70 0.1715 0.0496

Earth 113635-01-23 05:29 G 43225413.66 43225413.73 43225413.81 0.2671 0.2322

Moon 113635-01-23 06:13 G 43225413.69 43225413.76 43225413.83 0.2678 0.2307 *

Jupiter 113635-04-18 15:49 G 43225499.10 43225499.16 43225499.22 0.0498 0.0465

Jupiter 113635-07-17 19:53 G 43225589.20 43225589.33 43225589.48 0.0502 0.0310

Venus 113636-08-22 13:10 G 43225990.95 43225991.05 43225991.15 0.3696 0.1340

Pluto 113640-08-22 08:37 G 43227451.82 43227451.86 43227451.93 0.0059 0.0057

Uranus 113640-09-25 07:53 G 43227485.79 43227485.83 43227485.89 0.0139 0.0129

Pluto 113640-11-18 09:49 G 43227539.82 43227539.91 43227540.05 0.0060 0.0048

Uranus 113640-12-22 11:44 G 43227573.91 43227573.99 43227574.08 0.0139 0.0109

Jupiter 113640-12-23 14:22 G 43227574.97 43227575.10 43227575.23 0.0528 0.0089

Pluto 113641-02-14 11:15 G 43227627.84 43227627.97 43227628.14 0.0060 0.0039

Uranus 113641-03-20 15:34 G 43227662.05 43227662.15 43227662.26 0.0139 0.0089

Mars 113641-03-25 01:25 G 43227666.55 43227666.56 43227666.58 0.1841 0.1819

Pluto 113641-05-13 13:10 G 43227715.88 43227716.05 43227716.22 0.0060 0.0029

Uranus 113641-06-16 19:25 G 43227750.19 43227750.31 43227750.43 0.0139 0.0069

Pluto 113641-08-09 14:22 G 43227803.92 43227804.10 43227804.29 0.0060 0.0020

Uranus 113641-09-12 23:01 G 43227838.34 43227838.46 43227838.60 0.0139 0.0050

Pluto 113641-11-05 15:49 G 43227891.97 43227892.16 43227892.36 0.0060 0.0011

Uranus 113641-12-10 02:51 G 43227926.49 43227926.62 43227926.76 0.0140 0.0029

Pluto 113642-02-01 17:15 G 43227980.02 43227980.22 43227980.42 0.0060 0.0001

Venus 113642-03-08 05:44 G 43228014.63 43228014.74 43228014.84 0.3693 0.0400

Uranus 113642-03-08 06:41 G 43228014.64 43228014.78 43228014.92 0.0140 0.0009 *

Pluto 113642-04-30 18:41 G 43228068.08 43228068.28 43228068.48 0.0060 0.0008

Uranus 113642-06-04 10:17 G 43228102.80 43228102.93 43228103.07 0.0140 0.0011

Pluto 113642-07-27 19:39 G 43228156.15 43228156.32 43228156.53 0.0060 0.0018

Uranus 113642-08-31 13:53 G 43228190.95 43228191.08 43228191.22 0.0140 0.0031

Pluto 113642-10-23 21:05 G 43228244.22 43228244.38 43228244.57 0.0060 0.0027

Uranus 113642-11-27 17:44 G 43228279.11 43228279.24 43228279.37 0.0140 0.0050

Pluto 113643-01-19 22:46 G 43228332.30 43228332.45 43228332.61 0.0060 0.0036

Uranus 113643-02-23 21:20 G 43228367.27 43228367.39 43228367.51 0.0140 0.0069

Pluto 113643-04-17 23:44 G 43228420.39 43228420.49 43228420.64 0.0060 0.0046

Uranus 113643-05-23 00:56 G 43228455.44 43228455.54 43228455.65 0.0140 0.0089

Saturn 113643-06-27 03:20 G 43228490.49 43228490.64 43228490.79 0.0270 0.0150

Pluto 113643-07-15 01:25 G 43228508.50 43228508.56 43228508.64 0.0060 0.0056

Uranus 113643-08-19 04:32 G 43228543.61 43228543.69 43228543.78 0.0140 0.0108

Saturn 113643-09-23 23:15 G 43228579.29 43228579.47 43228579.65 0.0270 0.0033

Uranus 113643-11-15 07:53 G 43228631.79 43228631.83 43228631.90 0.0140 0.0129

Saturn 113643-12-21 18:56 G 43228668.20 43228668.29 43228668.41 0.0269 0.0219

Earth 113645-07-23 06:41 G 43229247.67 43229247.78 43229247.89 0.2660 0.0325

Moon 113645-07-23 07:25 G 43229247.70 43229247.81 43229247.92 0.2658 0.0516 *

Jupiter 113647-05-05 18:27 G 43229899.10 43229899.27 43229899.44 0.0501 0.0114

Venus 113647-09-21 22:03 G 43230038.33 43230038.42 43230038.51 0.3689 0.2062

Earth 113648-01-26 11:29 G 43230164.84 43230164.98 43230165.12 0.2673 0.1102

Moon 113648-01-26 13:10 G 43230164.92 43230165.05 43230165.18 0.2673 0.1431 *

Venus 113649-04-07 03:34 G 43230601.51 43230601.65 43230601.79 0.3681 0.0932

Mars 113652-07-20 21:49 G 43231802.32 43231802.41 43231802.50 0.1815 0.1145

Jupiter 113652-10-11 17:44 G 43231885.13 43231885.24 43231885.36 0.0528 0.0259

Jupiter 113653-01-09 01:53 G 43231974.50 43231974.58 43231974.66 0.0525 0.0403

Venus 113654-10-22 09:20 G 43232625.83 43232625.89 43232625.94 0.3686 0.3344

Saturn 113658-07-23 23:15 G 43233996.36 43233996.47 43233996.58 0.0290 0.0155

Moon 113658-07-26 00:27 G 43233998.44 43233998.52 43233998.59 0.2652 0.1920

Earth 113658-07-26 00:27 G 43233998.45 43233998.52 43233998.59 0.2658 0.1992 *

Saturn 113658-10-20 11:58 G 43234084.86 43234085.00 43234085.13 0.0290 0.0016

Saturn 113659-01-17 00:27 G 43234173.42 43234173.52 43234173.62 0.0290 0.0184

Jupiter 113659-02-21 17:01 G 43234209.04 43234209.21 43234209.39 0.0500 0.0079

Mars 113661-12-11 07:10 G 43235232.69 43235232.80 43235232.92 0.1823 0.0232

Mars 113663-01-08 03:20 G 43235625.51 43235625.64 43235625.77 0.1724 0.1098

Jupiter 113664-07-30 21:05 G 43236195.30 43236195.38 43236195.45 0.0529 0.0433

Jupiter 113664-10-28 05:29 G 43236284.61 43236284.73 43236284.85 0.0526 0.0239

Moon 113665-07-19 00:13 G 43236548.49 43236548.51 43236548.54 0.2667 0.2601

Jupiter 113670-12-10 15:49 G 43238519.02 43238519.16 43238519.31 0.0499 0.0267

Mars 113671-05-03 16:32 G 43238663.08 43238663.19 43238663.29 0.1832 0.0725

Neptune 113671-10-22 05:58 G 43238834.72 43238834.75 43238834.80 0.0088 0.0084

Neptune 113672-01-18 07:39 G 43238922.76 43238922.82 43238922.88 0.0088 0.0077

Neptune 113672-04-15 08:51 G 43239010.80 43239010.87 43239010.96 0.0088 0.0071

Mars 113672-05-30 02:08 G 43239055.42 43239055.59 43239055.75 0.1715 0.0300

Neptune 113672-07-12 10:17 G 43239098.85 43239098.93 43239099.04 0.0088 0.0064

Neptune 113672-10-08 11:44 G 43239186.90 43239186.99 43239187.11 0.0088 0.0057

Saturn 113672-11-13 03:34 G 43239222.54 43239222.65 43239222.78 0.0270 0.0196

Neptune 113673-01-04 13:25 G 43239274.95 43239275.06 43239275.18 0.0088 0.0050

Saturn 113673-02-09 23:29 G 43239311.30 43239311.48 43239311.66 0.0270 0.0013

Neptune 113673-04-02 14:51 G 43239363.00 43239363.12 43239363.24 0.0088 0.0043

Saturn 113673-05-09 19:25 G 43239400.18 43239400.31 43239400.45 0.0270 0.0174

Neptune 113673-06-29 16:03 G 43239451.06 43239451.17 43239451.31 0.0088 0.0037

Neptune 113673-09-25 17:44 G 43239539.11 43239539.24 43239539.37 0.0088 0.0030

Neptune 113673-12-22 19:10 G 43239627.17 43239627.30 43239627.43 0.0088 0.0023

Neptune 113674-03-20 20:37 G 43239715.23 43239715.36 43239715.50 0.0088 0.0016

Neptune 113674-06-16 22:03 G 43239803.28 43239803.42 43239803.56 0.0088 0.0010

Neptune 113674-09-12 23:29 G 43239891.34 43239891.48 43239891.62 0.0088 0.0003

Neptune 113674-12-10 00:56 G 43239979.40 43239979.54 43239979.68 0.0088 0.0004

Neptune 113675-03-08 02:22 G 43240067.46 43240067.60 43240067.73 0.0088 0.0011

Neptune 113675-06-04 03:49 G 43240155.52 43240155.66 43240155.79 0.0088 0.0017

Neptune 113675-08-31 05:01 G 43240243.58 43240243.71 43240243.85 0.0088 0.0024

Neptune 113675-11-27 06:27 G 43240331.65 43240331.77 43240331.90 0.0088 0.0031

Neptune 113676-02-23 07:53 G 43240419.71 43240419.83 43240419.96 0.0088 0.0037

Neptune 113676-05-21 09:05 G 43240507.77 43240507.88 43240508.01 0.0088 0.0044

Jupiter 113676-08-16 08:22 G 43240594.72 43240594.85 43240594.98 0.0527 0.0060

Neptune 113676-08-17 10:46 G 43240595.84 43240595.95 43240596.06 0.0088 0.0050

Neptune 113676-11-13 11:58 G 43240683.90 43240684.00 43240684.11 0.0088 0.0057

Neptune 113677-02-09 13:10 G 43240771.97 43240772.05 43240772.16 0.0088 0.0064

Neptune 113677-05-08 14:51 G 43240860.04 43240860.12 43240860.20 0.0088 0.0070

Neptune 113677-08-04 16:03 G 43240948.11 43240948.17 43240948.24 0.0088 0.0077

Neptune 113677-10-31 17:29 G 43241036.19 43241036.23 43241036.28 0.0088 0.0083

Earth 113678-07-21 17:44 G 43241299.13 43241299.24 43241299.34 0.2661 0.1015

Moon 113678-07-21 18:13 G 43241299.16 43241299.26 43241299.36 0.2656 0.0953 *

Mars 113680-09-23 01:39 G 43242093.53 43242093.57 43242093.61 0.1840 0.1691

Earth 113681-01-23 11:58 G 43242215.88 43242216.00 43242216.12 0.2671 0.1668

Moon 113681-01-23 13:25 G 43242215.92 43242216.06 43242216.19 0.2668 0.1393 *

Uranus 113681-07-15 01:25 G 43242388.49 43242388.56 43242388.66 0.0139 0.0123

Uranus 113681-10-11 08:22 G 43242476.73 43242476.85 43242476.98 0.0139 0.0098

Mars 113681-10-20 00:56 G 43242485.51 43242485.54 43242485.57 0.1707 0.1661

Uranus 113682-01-07 15:05 G 43242564.99 43242565.13 43242565.29 0.0139 0.0073

Uranus 113682-04-05 22:03 G 43242653.25 43242653.42 43242653.59 0.0139 0.0047

Uranus 113682-07-03 05:01 G 43242741.53 43242741.71 43242741.89 0.0138 0.0021

Jupiter 113682-09-28 14:22 G 43242829.04 43242829.10 43242829.17 0.0498 0.0458

Uranus 113682-09-29 11:58 G 43242829.81 43242830.00 43242830.18 0.0138 0.0005

Uranus 113682-12-26 18:41 G 43242918.11 43242918.28 43242918.46 0.0138 0.0030

Jupiter 113682-12-27 18:41 G 43242919.14 43242919.28 43242919.42 0.0501 0.0316

Uranus 113683-03-25 01:39 G 43243006.41 43243006.57 43243006.74 0.0138 0.0056

Uranus 113683-06-21 08:37 G 43243094.72 43243094.86 43243095.02 0.0138 0.0082

Uranus 113683-09-17 15:34 G 43243183.05 43243183.15 43243183.27 0.0138 0.0108

Uranus 113683-12-14 22:32 G 43243271.41 43243271.44 43243271.50 0.0138 0.0134

Venus 113687-09-13 18:13 G 43244640.19 43244640.26 43244640.34 0.3699 0.2526

Saturn 113687-12-11 03:05 G 43244728.52 43244728.63 43244728.74 0.0289 0.0179

Saturn 113688-03-08 15:49 G 43244817.03 43244817.16 43244817.30 0.0290 0.0009

Jupiter 113688-06-04 11:58 G 43244904.87 43244905.00 43244905.13 0.0528 0.0107

Saturn 113688-06-05 04:17 G 43244905.57 43244905.68 43244905.80 0.0290 0.0160

Moon 113691-07-24 11:15 G 43246049.86 43246049.97 43246050.08 0.2654 0.0660

Earth 113691-07-24 11:29 G 43246049.87 43246049.98 43246050.09 0.2660 0.0681 *

Mars 113692-01-19 21:49 G 43246229.33 43246229.41 43246229.50 0.1814 0.1265

Venus 113693-03-29 10:46 G 43246663.85 43246663.95 43246664.06 0.3695 0.0781

Earth 113694-01-26 17:58 G 43246967.14 43246967.25 43246967.37 0.2674 0.1792

Moon 113694-01-26 18:13 G 43246967.15 43246967.26 43246967.38 0.2667 0.1730 *

Jupiter 113694-10-15 15:49 G 43247228.99 43247229.16 43247229.33 0.0501 0.0102

Venus 113698-10-13 03:20 G 43248687.54 43248687.64 43248687.74 0.3692 0.0939

Jupiter 113700-03-24 15:49 G 43249215.05 43249215.16 43249215.28 0.0529 0.0268

Jupiter 113700-06-21 23:58 G 43249304.42 43249304.50 43249304.59 0.0526 0.0396

Mars 113701-06-12 07:10 G 43249659.69 43249659.80 43249659.92 0.1823 0.0338

Saturn 113702-04-03 04:46 G 43249954.61 43249954.70 43249954.78 0.0270 0.0235

Saturn 113702-07-01 00:13 G 43250043.34 43250043.51 43250043.69 0.0270 0.0054

Mars 113702-07-10 04:03 G 43250052.56 43250052.67 43250052.78 0.1724 0.1280

Saturn 113702-09-27 20:08 G 43250132.19 43250132.34 43250132.50 0.0269 0.0131

Venus 113704-04-28 19:39 G 43250711.24 43250711.32 43250711.39 0.3688 0.2593

Moon 113704-07-27 04:32 G 43250800.63 43250800.69 43250800.75 0.2657 0.2212

Earth 113704-07-27 05:15 G 43250800.67 43250800.72 43250800.77 0.2658 0.2348 *

Venus 113705-11-13 04:32 G 43251274.55 43251274.69 43251274.84 0.3682 0.0359

Jupiter 113706-08-04 14:22 G 43251538.93 43251539.10 43251539.27 0.0500 0.0090

Mars 113710-11-02 16:32 G 43253090.08 43253090.19 43253090.30 0.1832 0.0603

Earth 113711-07-21 04:32 G 43253350.64 43253350.69 43253350.74 0.2663 0.2371

Moon 113711-07-21 04:46 G 43253350.65 43253350.70 43253350.75 0.2657 0.2361 *

Mars 113711-11-30 02:51 G 43253482.45 43253482.62 43253482.78 0.1715 0.0123

Jupiter 113712-01-11 19:25 G 43253525.24 43253525.31 43253525.38 0.0529 0.0437

Jupiter 113712-04-10 03:49 G 43253614.54 43253614.66 43253614.78 0.0526 0.0235

Saturn 113717-04-30 04:17 G 43255460.60 43255460.68 43255460.76 0.0290 0.0238

Saturn 113717-07-27 17:01 G 43255549.08 43255549.21 43255549.34 0.0290 0.0067

Saturn 113717-10-24 05:44 G 43255637.61 43255637.74 43255637.86 0.0290 0.0103

Saturn 113718-01-20 18:13 G 43255726.21 43255726.26 43255726.30 0.0291 0.0270

Jupiter 113718-05-23 13:10 G 43255848.91 43255849.05 43255849.20 0.0499 0.0278

Mars 113720-03-25 01:25 G 43256520.51 43256520.56 43256520.62 0.1840 0.1592

Mars 113721-04-21 01:53 G 43256912.50 43256912.58 43256912.66 0.1707 0.1482

Jupiter 113724-01-28 07:25 G 43257924.68 43257924.81 43257924.94 0.0527 0.0069

Moon 113724-07-22 22:03 G 43258101.31 43258101.42 43258101.53 0.2656 0.0675

Earth 113724-07-22 22:32 G 43258101.33 43258101.44 43258101.55 0.2661 0.0657 *

Uranus 113724-10-16 15:34 G 43258187.09 43258187.15 43258187.22 0.0139 0.0122

Uranus 113725-01-12 19:25 G 43258275.22 43258275.31 43258275.41 0.0139 0.0102

Uranus 113725-04-10 23:15 G 43258363.36 43258363.47 43258363.58 0.0139 0.0082

Uranus 113725-07-08 03:05 G 43258451.51 43258451.63 43258451.75 0.0139 0.0062

Uranus 113725-10-04 06:41 G 43258539.65 43258539.78 43258539.92 0.0139 0.0043

Uranus 113725-12-31 10:32 G 43258627.80 43258627.94 43258628.08 0.0140 0.0023

Uranus 113726-03-29 14:08 G 43258715.96 43258716.09 43258716.23 0.0140 0.0005

Uranus 113726-06-25 17:58 G 43258804.11 43258804.25 43258804.38 0.0140 0.0017

Uranus 113726-09-21 21:34 G 43258892.27 43258892.40 43258892.53 0.0140 0.0037

Uranus 113726-12-19 01:10 G 43258980.43 43258980.55 43258980.68 0.0140 0.0056

Moon 113727-01-25 17:44 G 43259018.10 43259018.24 43259018.39 0.2665 0.0998

Earth 113727-01-25 18:27 G 43259018.13 43259018.27 43259018.41 0.2672 0.0994 *

Uranus 113727-03-17 04:46 G 43259068.59 43259068.70 43259068.82 0.0140 0.0076

Uranus 113727-06-13 08:22 G 43259156.76 43259156.85 43259156.96 0.0140 0.0095

Uranus 113727-09-09 11:58 G 43259244.93 43259245.00 43259245.08 0.0140 0.0115

Uranus 113727-12-06 15:34 G 43259333.12 43259333.15 43259333.19 0.0140 0.0134

Jupiter 113730-03-11 12:13 G 43260158.95 43260159.01 43260159.08 0.0499 0.0461

Jupiter 113730-06-09 16:32 G 43260249.05 43260249.19 43260249.33 0.0502 0.0313

Mars 113731-07-21 21:49 G 43260656.34 43260656.41 43260656.48 0.1815 0.1367

Saturn 113731-11-18 00:27 G 43260775.35 43260775.52 43260775.68 0.0270 0.0102

Saturn 113732-02-14 20:08 G 43260864.17 43260864.34 43260864.52 0.0270 0.0082

Saturn 113732-05-13 16:03 G 43260953.17 43260953.17 43260953.20 0.0269 0.0268

Jupiter 113735-11-16 10:03 G 43262234.80 43262234.92 43262235.05 0.0528 0.0115

Pluto 113736-08-14 05:15 G 43262506.70 43262506.72 43262506.76 0.0085 0.0083

Pluto 113736-11-10 06:27 G 43262594.70 43262594.77 43262594.87 0.0085 0.0065

Pluto 113737-02-06 07:39 G 43262682.72 43262682.82 43262682.94 0.0085 0.0047

Pluto 113737-05-05 09:05 G 43262770.76 43262770.88 43262771.01 0.0085 0.0029

Moon 113737-07-25 15:34 G 43262852.05 43262852.15 43262852.26 0.2662 0.0856

Earth 113737-07-25 16:17 G 43262852.08 43262852.18 43262852.28 0.2659 0.1035 *

Pluto 113737-08-01 10:17 G 43262858.80 43262858.93 43262859.06 0.0085 0.0011

Pluto 113737-10-28 11:29 G 43262946.85 43262946.98 43262947.12 0.0084 0.0008

Pluto 113738-01-24 12:41 G 43263034.91 43263035.03 43263035.16 0.0084 0.0025

Pluto 113738-04-22 13:53 G 43263122.97 43263123.08 43263123.20 0.0084 0.0043

Pluto 113738-07-19 14:51 G 43263211.04 43263211.12 43263211.23 0.0084 0.0061

Pluto 113738-10-15 16:17 G 43263299.14 43263299.18 43263299.23 0.0084 0.0077

Moon 113740-01-28 23:01 G 43263769.37 43263769.46 43263769.55 0.2674 0.2128

Earth 113740-01-29 00:27 G 43263769.47 43263769.52 43263769.58 0.2674 0.2474 *

Mars 113740-12-11 07:25 G 43264086.70 43264086.81 43264086.92 0.1823 0.0463

Mars 113742-01-08 05:01 G 43264479.62 43264479.71 43264479.79 0.1724 0.1469

Jupiter 113742-03-28 14:22 G 43264558.93 43264559.10 43264559.28 0.0501 0.0112

Venus 113744-04-20 16:03 G 43265313.08 43265313.17 43265313.26 0.3698 0.1961

Saturn 113746-09-17 07:53 G 43266192.78 43266192.83 43266192.88 0.0289 0.0264

Saturn 113746-12-14 20:51 G 43266281.24 43266281.37 43266281.49 0.0290 0.0094

Saturn 113747-03-13 09:20 G 43266369.76 43266369.89 43266370.02 0.0290 0.0077

Saturn 113747-06-09 21:49 G 43266458.34 43266458.41 43266458.49 0.0290 0.0244

Jupiter 113747-09-04 13:39 G 43266544.96 43266545.07 43266545.18 0.0529 0.0284

Jupiter 113747-12-02 21:49 G 43266634.32 43266634.41 43266634.50 0.0526 0.0381

Venus 113749-11-04 08:37 G 43267336.75 43267336.86 43267336.96 0.3694 0.0219

Mars 113750-05-03 16:32 G 43267517.08 43267517.19 43267517.30 0.1831 0.0493

Mars 113751-05-31 03:20 G 43267909.48 43267909.64 43267909.81 0.1716 0.0055

Jupiter 113754-01-14 11:44 G 43268868.82 43268868.99 43268869.16 0.0500 0.0100

Venus 113755-05-21 00:56 G 43269360.44 43269360.54 43269360.64 0.3691 0.1479

Neptune 113755-12-18 22:17 G 43269572.41 43269572.43 43269572.48 0.0089 0.0087

Neptune 113756-03-16 01:53 G 43269660.49 43269660.58 43269660.67 0.0089 0.0078

Neptune 113756-06-12 05:01 G 43269748.60 43269748.71 43269748.83 0.0089 0.0068

Neptune 113756-09-08 08:08 G 43269836.71 43269836.84 43269836.99 0.0089 0.0059

Venus 113756-12-04 00:27 G 43269923.42 43269923.52 43269923.63 0.3678 0.2492

Neptune 113756-12-05 11:15 G 43269924.83 43269924.97 43269925.14 0.0089 0.0050

Neptune 113757-03-03 14:51 G 43270012.96 43270013.12 43270013.29 0.0089 0.0040

Neptune 113757-05-30 17:58 G 43270101.09 43270101.25 43270101.43 0.0089 0.0031

Moon 113757-07-21 08:51 G 43270152.81 43270152.87 43270152.93 0.2658 0.2159

Earth 113757-07-21 09:20 G 43270152.82 43270152.89 43270152.97 0.2662 0.2009 *

Neptune 113757-08-26 21:20 G 43270189.22 43270189.39 43270189.58 0.0089 0.0022

Neptune 113757-11-23 00:41 G 43270277.35 43270277.53 43270277.72 0.0089 0.0012

Neptune 113758-02-19 04:03 G 43270365.49 43270365.67 43270365.86 0.0089 0.0003

Neptune 113758-05-18 07:25 G 43270453.62 43270453.81 43270454.00 0.0089 0.0007

Neptune 113758-08-14 10:46 G 43270541.76 43270541.95 43270542.13 0.0089 0.0017

Neptune 113758-11-10 13:53 G 43270629.91 43270630.08 43270630.27 0.0089 0.0026

Neptune 113759-02-06 17:15 G 43270718.06 43270718.22 43270718.40 0.0089 0.0036

Neptune 113759-05-05 20:37 G 43270806.21 43270806.36 43270806.53 0.0089 0.0045

Jupiter 113759-06-23 17:15 G 43270855.16 43270855.22 43270855.30 0.0530 0.0447

Neptune 113759-08-01 23:44 G 43270894.36 43270894.49 43270894.66 0.0089 0.0056

Jupiter 113759-09-21 01:53 G 43270944.47 43270944.58 43270944.70 0.0527 0.0228

Mars 113759-09-24 01:39 G 43270947.50 43270947.57 43270947.63 0.1840 0.1468

Neptune 113759-10-29 03:20 G 43270982.52 43270982.64 43270982.78 0.0089 0.0065

Neptune 113760-01-25 06:41 G 43271070.69 43271070.78 43271070.89 0.0089 0.0075

Neptune 113760-04-22 09:49 G 43271158.87 43271158.91 43271158.99 0.0089 0.0085

Mars 113760-10-20 02:37 G 43271339.50 43271339.61 43271339.72 0.1708 0.1303

Venus 113760-12-03 17:15 G 43271384.17 43271384.22 43271384.27 0.3687 0.3126

Saturn 113761-04-06 01:25 G 43271507.42 43271507.56 43271507.72 0.0270 0.0140

Saturn 113761-07-03 21:20 G 43271596.21 43271596.39 43271596.57 0.0270 0.0043

Saturn 113761-09-30 17:15 G 43271685.13 43271685.22 43271685.32 0.0269 0.0228

Venus 113762-06-20 05:58 G 43271947.61 43271947.75 43271947.88 0.3683 0.1669

Uranus 113765-05-09 02:51 G 43273001.62 43273001.62 43273001.63 0.0139 0.0139

Uranus 113765-08-05 09:20 G 43273089.81 43273089.89 43273090.01 0.0139 0.0114

Uranus 113765-11-01 16:17 G 43273178.05 43273178.18 43273178.33 0.0139 0.0089

Jupiter 113765-11-02 10:32 G 43273178.80 43273178.94 43273179.08 0.0499 0.0288

Uranus 113766-01-28 23:15 G 43273266.31 43273266.47 43273266.63 0.0139 0.0063

Jupiter 113766-01-31 15:20 G 43273269.12 43273269.14 43273269.16 0.0502 0.0497

Uranus 113766-04-27 05:58 G 43273354.58 43273354.75 43273354.93 0.0139 0.0038

Uranus 113766-07-24 12:56 G 43273442.86 43273443.04 43273443.23 0.0138 0.0012

Uranus 113766-10-20 19:53 G 43273531.15 43273531.33 43273531.51 0.0138 0.0014

Uranus 113767-01-17 02:51 G 43273619.44 43273619.62 43273619.80 0.0138 0.0040

Uranus 113767-04-15 09:49 G 43273707.75 43273707.91 43273708.07 0.0138 0.0065

Uranus 113767-07-12 16:46 G 43273796.06 43273796.20 43273796.34 0.0138 0.0091

Uranus 113767-10-08 23:44 G 43273884.40 43273884.49 43273884.59 0.0138 0.0117

Moon 113770-07-24 02:51 G 43274903.51 43274903.62 43274903.73 0.2665 0.0364

Earth 113770-07-24 03:20 G 43274903.53 43274903.64 43274903.75 0.2661 0.0299 *

Mars 113771-01-19 21:49 G 43275083.35 43275083.41 43275083.47 0.1814 0.1487

Jupiter 113771-07-10 05:44 G 43275254.61 43275254.74 43275254.87 0.0527 0.0066

Moon 113773-01-25 23:29 G 43275820.33 43275820.48 43275820.63 0.2674 0.0611

Earth 113773-01-26 00:56 G 43275820.39 43275820.54 43275820.69 0.2672 0.0322 *

Saturn 113776-05-02 21:34 G 43277013.29 43277013.40 43277013.52 0.0290 0.0155

Saturn 113776-07-30 10:32 G 43277101.80 43277101.94 43277102.07 0.0290 0.0019

Saturn 113776-10-26 23:01 G 43277190.36 43277190.46 43277190.56 0.0290 0.0185

Jupiter 113777-08-21 09:34 G 43277488.85 43277488.90 43277488.95 0.0499 0.0472

Jupiter 113777-11-19 13:39 G 43277578.93 43277579.07 43277579.21 0.0502 0.0302

Mars 113780-06-11 07:10 G 43278513.69 43278513.80 43278513.91 0.1823 0.0564

Mars 113781-07-09 05:44 G 43278906.69 43278906.74 43278906.78 0.1724 0.1647

Jupiter 113783-04-28 09:05 G 43279564.75 43279564.88 43279565.01 0.0528 0.0104

Moon 113783-07-26 21:20 G 43279654.29 43279654.39 43279654.48 0.2665 0.1377

Earth 113783-07-26 21:05 G 43279654.29 43279654.38 43279654.48 0.2659 0.1386 *

Jupiter 113789-09-07 12:27 G 43281888.85 43281889.02 43281889.19 0.0501 0.0110

Mars 113789-11-01 16:32 G 43281944.08 43281944.19 43281944.30 0.1832 0.0376

Saturn 113790-08-24 01:10 G 43282239.43 43282239.55 43282239.68 0.0270 0.0192

Saturn 113790-11-20 20:51 G 43282328.19 43282328.37 43282328.55 0.0270 0.0010

Mars 113790-11-29 04:17 G 43282336.52 43282336.68 43282336.85 0.1716 0.0240

Saturn 113791-02-17 16:46 G 43282417.07 43282417.20 43282417.34 0.0269 0.0175

Jupiter 113795-02-14 11:58 G 43283874.89 43283875.00 43283875.11 0.0529 0.0287

Venus 113795-05-12 21:05 G 43283962.32 43283962.38 43283962.43 0.3700 0.3159

Jupiter 113795-05-14 20:08 G 43283964.25 43283964.34 43283964.43 0.0525 0.0377

Mars 113799-03-25 01:39 G 43285374.49 43285374.57 43285374.65 0.1840 0.1346

Mars 113800-04-21 03:20 G 43285766.51 43285766.64 43285766.76 0.1708 0.1132

Venus 113800-11-26 13:39 G 43285985.97 43285986.07 43285986.17 0.3697 0.1384

Jupiter 113801-06-27 10:46 G 43286198.77 43286198.95 43286199.12 0.0500 0.0088

Moon 113803-07-23 13:53 G 43286954.99 43286955.08 43286955.16 0.2667 0.1688

Earth 113803-07-23 14:22 G 43286955.01 43286955.10 43286955.18 0.2662 0.1648 *

Saturn 113805-09-21 01:10 G 43287745.45 43287745.55 43287745.65 0.0290 0.0184

Saturn 113805-12-18 13:53 G 43287833.95 43287834.08 43287834.22 0.0290 0.0014

Saturn 113806-03-17 02:37 G 43287922.50 43287922.61 43287922.72 0.0290 0.0156

Venus 113806-06-12 06:13 G 43288009.66 43288009.76 43288009.87 0.3693 0.0348

Jupiter 113806-12-04 15:20 G 43288185.07 43288185.14 43288185.20 0.0530 0.0459

Jupiter 113807-03-03 23:58 G 43288274.38 43288274.50 43288274.62 0.0527 0.0216

Uranus 113808-08-10 19:25 G 43288800.29 43288800.31 43288800.33 0.0139 0.0136

Uranus 113808-11-06 23:01 G 43288888.39 43288888.46 43288888.54 0.0139 0.0117

Uranus 113809-02-03 02:51 G 43288976.52 43288976.62 43288976.72 0.0139 0.0097

Uranus 113809-05-02 06:41 G 43289064.67 43289064.78 43289064.90 0.0139 0.0077

Uranus 113809-07-29 10:17 G 43289152.81 43289152.93 43289153.06 0.0139 0.0057

Uranus 113809-10-25 14:08 G 43289240.96 43289241.09 43289241.22 0.0139 0.0037

Uranus 113810-01-21 17:44 G 43289329.11 43289329.24 43289329.38 0.0139 0.0018

Uranus 113810-04-19 21:34 G 43289417.26 43289417.40 43289417.54 0.0140 0.0003

Uranus 113810-07-17 01:10 G 43289505.42 43289505.55 43289505.69 0.0140 0.0022

Mars 113810-07-21 21:49 G 43289510.36 43289510.41 43289510.46 0.1814 0.1601

Uranus 113810-10-13 04:46 G 43289593.57 43289593.70 43289593.84 0.0140 0.0042

Uranus 113811-01-09 08:22 G 43289681.73 43289681.85 43289681.98 0.0140 0.0062

Uranus 113811-04-07 12:13 G 43289769.90 43289770.01 43289770.12 0.0140 0.0081

Uranus 113811-07-04 15:49 G 43289858.07 43289858.16 43289858.25 0.0140 0.0100

Uranus 113811-09-30 19:10 G 43289946.24 43289946.30 43289946.38 0.0140 0.0120

Venus 113811-12-26 22:32 G 43290033.36 43290033.44 43290033.53 0.3690 0.2029

Uranus 113811-12-27 22:46 G 43290034.45 43290034.45 43290034.47 0.0140 0.0139

Jupiter 113813-04-15 08:08 G 43290508.70 43290508.84 43290508.98 0.0499 0.0295

Venus 113813-07-12 01:39 G 43290596.43 43290596.57 43290596.71 0.3680 0.1226

Jupiter 113813-07-14 12:41 G 43290599.00 43290599.03 43290599.07 0.0502 0.0489

Earth 113816-07-25 08:08 G 43291705.73 43291705.84 43291705.95 0.2660 0.0071

Moon 113816-07-25 08:22 G 43291705.74 43291705.85 43291705.96 0.2667 0.0069 *

Venus 113817-07-11 14:51 G 43292057.11 43292057.12 43292057.13 0.3686 0.3659

Jupiter 113818-12-21 04:03 G 43292584.53 43292584.67 43292584.80 0.0528 0.0061

Venus 113819-01-26 07:10 G 43292620.72 43292620.80 43292620.89 0.3685 0.3026

Earth 113819-01-28 07:25 G 43292622.66 43292622.81 43292622.96 0.2672 0.0352

Moon 113819-01-28 07:39 G 43292622.67 43292622.82 43292622.97 0.2679 0.0294 *

Mars 113819-12-12 07:10 G 43292940.70 43292940.80 43292940.91 0.1823 0.0681

Saturn 113820-01-12 02:22 G 43292971.52 43292971.60 43292971.71 0.0270 0.0228

Saturn 113820-04-09 22:17 G 43293060.25 43293060.43 43293060.60 0.0270 0.0046

Saturn 113820-07-07 17:58 G 43293149.10 43293149.25 43293149.41 0.0269 0.0138

Jupiter 113825-02-01 06:56 G 43294818.75 43294818.79 43294818.84 0.0498 0.0479

Jupiter 113825-05-02 11:01 G 43294908.82 43294908.96 43294909.11 0.0501 0.0292

Mars 113829-05-03 16:32 G 43296371.08 43296371.19 43296371.31 0.1831 0.0262

Earth 113829-07-28 01:53 G 43296456.50 43296456.58 43296456.67 0.2659 0.1736

Moon 113829-07-28 02:37 G 43296456.54 43296456.61 43296456.69 0.2658 0.1914 *

Mars 113830-05-31 05:15 G 43296763.55 43296763.72 43296763.88 0.1716 0.0423

Jupiter 113830-10-09 07:39 G 43296894.69 43296894.82 43296894.95 0.0528 0.0104

Saturn 113835-02-08 01:53 G 43298477.52 43298477.58 43298477.66 0.0290 0.0247

Saturn 113835-05-07 14:51 G 43298565.99 43298566.12 43298566.25 0.0290 0.0075

Saturn 113835-08-04 03:34 G 43298654.52 43298654.65 43298654.77 0.0290 0.0094

Saturn 113835-10-31 15:49 G 43298743.11 43298743.16 43298743.22 0.0291 0.0263

Neptune 113836-07-20 05:15 G 43299005.68 43299005.72 43299005.77 0.0088 0.0082

Neptune 113836-10-16 06:56 G 43299093.72 43299093.79 43299093.85 0.0088 0.0076

Neptune 113837-01-12 07:53 G 43299181.76 43299181.83 43299181.93 0.0088 0.0069

Jupiter 113837-02-18 09:49 G 43299218.73 43299218.91 43299219.08 0.0501 0.0100

Neptune 113837-04-10 09:34 G 43299269.81 43299269.90 43299270.01 0.0088 0.0062

Neptune 113837-07-07 11:01 G 43299357.86 43299357.96 43299358.08 0.0088 0.0055

Neptune 113837-10-03 12:27 G 43299445.91 43299446.02 43299446.14 0.0088 0.0049

Neptune 113837-12-30 14:08 G 43299533.97 43299534.09 43299534.21 0.0088 0.0041

Neptune 113838-03-28 15:20 G 43299622.02 43299622.14 43299622.28 0.0088 0.0035

Neptune 113838-06-24 16:46 G 43299710.08 43299710.20 43299710.34 0.0088 0.0029

Neptune 113838-09-20 18:27 G 43299798.14 43299798.27 43299798.40 0.0088 0.0021

Mars 113838-09-24 01:39 G 43299801.48 43299801.57 43299801.65 0.1840 0.1241

Neptune 113838-12-17 19:53 G 43299886.19 43299886.33 43299886.46 0.0088 0.0014

Neptune 113839-03-15 21:20 G 43299974.25 43299974.39 43299974.53 0.0088 0.0008

Neptune 113839-06-11 22:46 G 43300062.31 43300062.45 43300062.59 0.0088 0.0001

Neptune 113839-09-08 00:13 G 43300150.37 43300150.51 43300150.64 0.0088 0.0006

Mars 113839-10-21 04:03 G 43300193.53 43300193.67 43300193.81 0.1708 0.0955

Neptune 113839-12-05 01:25 G 43300238.43 43300238.56 43300238.70 0.0088 0.0013

Neptune 113840-03-02 03:05 G 43300326.49 43300326.63 43300326.76 0.0088 0.0019

Neptune 113840-05-29 04:17 G 43300414.55 43300414.68 43300414.82 0.0088 0.0026

Neptune 113840-08-25 05:44 G 43300502.62 43300502.74 43300502.87 0.0088 0.0032

Neptune 113840-11-21 07:10 G 43300590.68 43300590.80 43300590.92 0.0088 0.0039

Neptune 113841-02-17 08:22 G 43300678.74 43300678.85 43300678.98 0.0088 0.0046

Neptune 113841-05-16 10:03 G 43300766.81 43300766.92 43300767.03 0.0088 0.0052

Neptune 113841-08-12 11:15 G 43300854.88 43300854.97 43300855.08 0.0088 0.0059

Neptune 113841-11-08 12:27 G 43300942.94 43300943.02 43300943.12 0.0088 0.0066

Neptune 113842-02-04 13:53 G 43301031.01 43301031.08 43301031.17 0.0088 0.0072

Neptune 113842-05-03 15:05 G 43301119.09 43301119.13 43301119.21 0.0088 0.0079

Jupiter 113842-07-28 11:01 G 43301204.85 43301204.96 43301205.08 0.0529 0.0274

Neptune 113842-07-30 16:46 G 43301207.17 43301207.20 43301207.24 0.0088 0.0085

Jupiter 113842-10-25 19:10 G 43301294.22 43301294.30 43301294.39 0.0525 0.0390

Jupiter 113848-12-07 08:37 G 43303528.69 43303528.86 43303529.03 0.0500 0.0088

Uranus 113849-05-30 10:32 G 43303702.89 43303702.94 43303703.01 0.0139 0.0130

Earth 113849-07-23 19:10 G 43303757.20 43303757.30 43303757.39 0.2662 0.1290

Moon 113849-07-23 19:39 G 43303757.22 43303757.32 43303757.42 0.2667 0.1160 *

Uranus 113849-08-26 17:15 G 43303791.11 43303791.22 43303791.35 0.0139 0.0105

Saturn 113849-08-27 21:05 G 43303792.22 43303792.38 43303792.55 0.0270 0.0104

Uranus 113849-11-23 00:13 G 43303879.37 43303879.51 43303879.66 0.0139 0.0080

Saturn 113849-11-24 17:01 G 43303881.03 43303881.21 43303881.38 0.0269 0.0079

Mars 113850-01-19 21:49 G 43303937.37 43303937.41 43303937.44 0.1814 0.1708

Uranus 113850-02-19 06:56 G 43303967.63 43303967.79 43303967.96 0.0139 0.0054

Saturn 113850-02-21 12:56 G 43303970.01 43303970.04 43303970.07 0.0269 0.0265

Uranus 113850-05-18 13:53 G 43304055.90 43304056.08 43304056.26 0.0139 0.0029

Uranus 113850-08-14 20:51 G 43304144.19 43304144.37 43304144.55 0.0139 0.0003

Uranus 113850-11-11 03:49 G 43304232.48 43304232.66 43304232.84 0.0138 0.0023

Uranus 113851-02-07 10:32 G 43304320.77 43304320.94 43304321.12 0.0138 0.0049

Uranus 113851-05-06 17:29 G 43304409.08 43304409.23 43304409.39 0.0138 0.0075

Uranus 113851-08-03 00:27 G 43304497.40 43304497.52 43304497.65 0.0138 0.0101

Uranus 113851-10-30 07:25 G 43304585.75 43304585.81 43304585.89 0.0138 0.0127

Venus 113851-12-18 18:41 G 43304635.21 43304635.28 43304635.36 0.3699 0.2574

Earth 113852-01-26 08:08 G 43304673.77 43304673.84 43304673.90 0.2671 0.2378

Moon 113852-01-26 08:51 G 43304673.79 43304673.87 43304673.94 0.2676 0.2284 *

Jupiter 113854-05-16 13:39 G 43305515.01 43305515.07 43305515.14 0.0530 0.0459

Jupiter 113854-08-13 22:17 G 43305604.31 43305604.43 43305604.55 0.0526 0.0216

Venus 113857-07-03 11:29 G 43306658.88 43306658.98 43306659.08 0.3696 0.0810

Mars 113859-06-12 07:25 G 43307367.70 43307367.81 43307367.91 0.1822 0.0803

Jupiter 113860-09-25 07:10 G 43307838.66 43307838.80 43307838.94 0.0499 0.0279

Earth 113862-07-26 12:56 G 43308507.93 43308508.04 43308508.15 0.2660 0.0423

Moon 113862-07-26 13:39 G 43308507.96 43308508.07 43308508.18 0.2658 0.0493 *

Venus 113863-01-17 04:03 G 43308682.56 43308682.67 43308682.77 0.3692 0.0914

Saturn 113864-06-27 05:01 G 43309209.68 43309209.71 43309209.73 0.0289 0.0283

Saturn 113864-09-23 17:44 G 43309298.12 43309298.24 43309298.37 0.0290 0.0112

Saturn 113864-12-21 06:27 G 43309386.64 43309386.77 43309386.91 0.0290 0.0060

Earth 113865-01-28 13:53 G 43309424.94 43309425.08 43309425.22 0.2673 0.1028

Moon 113865-01-28 15:20 G 43309425.01 43309425.14 43309425.28 0.2674 0.1349 *

Saturn 113865-03-19 19:10 G 43309475.22 43309475.30 43309475.38 0.0290 0.0227

Jupiter 113866-06-02 01:53 G 43309914.45 43309914.58 43309914.72 0.0527 0.0054

Venus 113868-08-01 20:22 G 43310706.27 43310706.35 43310706.42 0.3689 0.2569

Mars 113868-11-01 16:32 G 43310798.08 43310798.19 43310798.31 0.1831 0.0146

Mars 113869-11-29 05:44 G 43311190.58 43311190.74 43311190.90 0.1716 0.0587

Venus 113870-02-16 02:51 G 43311269.47 43311269.62 43311269.76 0.3681 0.0114

Jupiter 113872-07-14 04:46 G 43312148.67 43312148.70 43312148.74 0.0498 0.0483

Jupiter 113872-10-12 08:51 G 43312238.72 43312238.87 43312239.01 0.0501 0.0287

Earth 113875-07-29 06:56 G 43313258.72 43313258.79 43313258.85 0.2658 0.2088

Moon 113875-07-29 07:10 G 43313258.73 43313258.80 43313258.86 0.2652 0.2140 *

Jupiter 113878-03-21 05:58 G 43314224.62 43314224.75 43314224.88 0.0529 0.0109

Mars 113878-03-25 01:39 G 43314228.48 43314228.57 43314228.66 0.1840 0.1123

Saturn 113879-01-14 22:32 G 43314524.30 43314524.44 43314524.60 0.0270 0.0139

Saturn 113879-04-13 18:27 G 43314613.09 43314613.27 43314613.45 0.0270 0.0044

Mars 113879-04-21 05:01 G 43314620.56 43314620.71 43314620.85 0.1708 0.0772

Saturn 113879-07-11 14:08 G 43314702.00 43314702.09 43314702.19 0.0269 0.0229

Earth 113882-07-22 05:58 G 43315808.74 43315808.75 43315808.76 0.2663 0.2651

Moon 113882-07-22 06:41 G 43315808.74 43315808.78 43315808.81 0.2667 0.2517 *

Jupiter 113884-07-31 07:25 G 43316548.63 43316548.81 43316548.98 0.0500 0.0093

Pluto 113886-04-23 22:03 G 43317180.38 43317180.42 43317180.49 0.0059 0.0057

Pluto 113886-07-20 23:29 G 43317268.38 43317268.48 43317268.61 0.0060 0.0048

Pluto 113886-10-17 00:41 G 43317356.40 43317356.53 43317356.70 0.0060 0.0039

Pluto 113887-01-13 02:37 G 43317444.44 43317444.61 43317444.78 0.0060 0.0029

Pluto 113887-04-11 03:49 G 43317532.48 43317532.66 43317532.86 0.0060 0.0020

Pluto 113887-07-08 05:15 G 43317620.53 43317620.72 43317620.92 0.0060 0.0011

Pluto 113887-10-04 06:41 G 43317708.59 43317708.78 43317708.98 0.0060 0.0002

Pluto 113887-12-31 08:08 G 43317796.65 43317796.84 43317797.04 0.0060 0.0008

Pluto 113888-03-28 09:20 G 43317884.71 43317884.89 43317885.09 0.0060 0.0018

Pluto 113888-06-24 10:46 G 43317972.78 43317972.95 43317973.14 0.0060 0.0027

Pluto 113888-09-20 12:13 G 43318060.86 43318061.01 43318061.18 0.0060 0.0036

Pluto 113888-12-17 13:25 G 43318148.95 43318149.06 43318149.20 0.0060 0.0046

Pluto 113889-03-15 14:51 G 43318237.06 43318237.12 43318237.21 0.0060 0.0056

Jupiter 113890-01-07 09:34 G 43318534.79 43318534.90 43318535.02 0.0529 0.0273

Jupiter 113890-04-06 17:58 G 43318624.16 43318624.25 43318624.33 0.0526 0.0391

Uranus 113892-08-31 02:51 G 43319501.58 43319501.62 43319501.68 0.0139 0.0129

Uranus 113892-11-27 06:41 G 43319589.70 43319589.78 43319589.87 0.0139 0.0109

Uranus 113893-02-23 10:32 G 43319677.84 43319677.94 43319678.05 0.0139 0.0089

Uranus 113893-05-22 14:22 G 43319765.98 43319766.10 43319766.22 0.0139 0.0069

Uranus 113893-08-18 18:13 G 43319854.13 43319854.26 43319854.39 0.0139 0.0050

Uranus 113893-11-14 21:49 G 43319942.28 43319942.41 43319942.55 0.0139 0.0030

Saturn 113894-02-10 18:41 G 43320030.17 43320030.28 43320030.39 0.0290 0.0174

Uranus 113894-02-11 01:39 G 43320030.43 43320030.57 43320030.70 0.0139 0.0011

Uranus 113894-05-10 05:15 G 43320118.58 43320118.72 43320118.86 0.0140 0.0010

Saturn 113894-05-10 07:25 G 43320118.67 43320118.81 43320118.94 0.0290 0.0005 *

Uranus 113894-08-06 08:51 G 43320206.74 43320206.87 43320207.01 0.0140 0.0029

Saturn 113894-08-06 19:53 G 43320207.22 43320207.33 43320207.44 0.0290 0.0166

Uranus 113894-11-02 12:27 G 43320294.90 43320295.02 43320295.15 0.0140 0.0049

Uranus 113895-01-29 16:03 G 43320383.06 43320383.17 43320383.30 0.0140 0.0069

Uranus 113895-04-27 19:39 G 43320471.22 43320471.32 43320471.43 0.0140 0.0088

Uranus 113895-07-24 23:29 G 43320559.39 43320559.48 43320559.56 0.0140 0.0107

Earth 113895-07-24 23:58 G 43320559.39 43320559.50 43320559.60 0.2662 0.0925 *

Moon 113895-07-25 00:41 G 43320559.42 43320559.53 43320559.63 0.2659 0.0864 *

Uranus 113895-10-21 02:51 G 43320647.57 43320647.62 43320647.68 0.0140 0.0127

Jupiter 113896-05-19 06:13 G 43320858.59 43320858.76 43320858.93 0.0500 0.0095

Earth 113898-01-26 14:22 G 43321475.99 43321476.10 43321476.22 0.2671 0.1714

Moon 113898-01-26 16:03 G 43321476.05 43321476.17 43321476.30 0.2670 0.1562 *

Mars 113898-12-11 07:10 G 43321794.70 43321794.80 43321794.90 0.1822 0.0910

Jupiter 113901-10-27 12:56 G 43322844.97 43322845.04 43322845.12 0.0530 0.0444

Jupiter 113902-01-24 21:34 G 43322934.29 43322934.40 43322934.52 0.0526 0.0231

Jupiter 113908-03-08 05:15 G 43325168.58 43325168.72 43325168.87 0.0499 0.0278

Mars 113908-05-03 16:32 G 43325225.07 43325225.19 43325225.30 0.1831 0.0039

Saturn 113908-06-03 21:05 G 43325256.27 43325256.38 43325256.50 0.0270 0.0202

Venus 113908-07-25 16:32 G 43325308.10 43325308.19 43325308.28 0.3699 0.1989

Moon 113908-07-27 17:44 G 43325310.14 43325310.24 43325310.35 0.2653 0.0820

Earth 113908-07-27 17:58 G 43325310.14 43325310.25 43325310.35 0.2660 0.0777 *

Saturn 113908-08-31 16:46 G 43325345.02 43325345.20 43325345.38 0.0270 0.0020

Saturn 113908-11-28 12:27 G 43325433.88 43325434.02 43325434.17 0.0269 0.0164

Mars 113909-05-31 06:41 G 43325617.63 43325617.78 43325617.93 0.1717 0.0785

Earth 113911-01-30 20:22 G 43326227.23 43326227.35 43326227.47 0.2673 0.1704

Moon 113911-01-30 20:37 G 43326227.25 43326227.36 43326227.48 0.2667 0.1844 *

Jupiter 113913-11-13 00:41 G 43327244.40 43327244.53 43327244.66 0.0527 0.0056

Venus 113914-02-08 09:05 G 43327331.78 43327331.88 43327331.99 0.3695 0.0272

Mars 113917-09-24 01:39 G 43328655.48 43328655.57 43328655.67 0.1839 0.0997

Mars 113918-10-21 05:29 G 43329047.57 43329047.73 43329047.89 0.1708 0.0607

Venus 113919-08-25 01:39 G 43329355.47 43329355.57 43329355.67 0.3691 0.1454

Jupiter 113919-12-26 04:03 G 43329478.62 43329478.67 43329478.74 0.0498 0.0465

Jupiter 113920-03-25 08:08 G 43329568.70 43329568.84 43329568.98 0.0501 0.0307

Neptune 113920-09-15 19:53 G 43329743.29 43329743.33 43329743.40 0.0089 0.0085

Neptune 113920-12-12 23:01 G 43329831.38 43329831.46 43329831.57 0.0089 0.0076

Venus 113921-03-09 22:46 G 43329918.35 43329918.45 43329918.54 0.3677 0.2738

Neptune 113921-03-11 02:37 G 43329919.49 43329919.61 43329919.73 0.0089 0.0067

Neptune 113921-06-07 05:44 G 43330007.61 43330007.74 43330007.89 0.0089 0.0057

Moon 113921-07-30 11:01 G 43330060.90 43330060.96 43330061.02 0.2656 0.2268

Earth 113921-07-30 11:44 G 43330060.95 43330060.99 43330061.03 0.2658 0.2437 *

Neptune 113921-09-03 08:51 G 43330095.73 43330095.87 43330096.04 0.0089 0.0048

Neptune 113921-11-30 12:27 G 43330183.85 43330184.02 43330184.18 0.0089 0.0039

Neptune 113922-02-26 15:34 G 43330271.98 43330272.15 43330272.33 0.0089 0.0029

Neptune 113922-05-25 18:41 G 43330360.11 43330360.28 43330360.47 0.0089 0.0021

Neptune 113922-08-21 22:17 G 43330448.24 43330448.43 43330448.61 0.0089 0.0010

Neptune 113922-11-18 01:39 G 43330536.38 43330536.57 43330536.75 0.0089 0.0002

Neptune 113923-02-14 04:46 G 43330624.52 43330624.70 43330624.89 0.0089 0.0009

Neptune 113923-05-13 08:08 G 43330712.66 43330712.84 43330713.03 0.0089 0.0018

Saturn 113923-07-01 21:05 G 43330762.29 43330762.38 43330762.47 0.0290 0.0215

Neptune 113923-08-09 11:29 G 43330800.80 43330800.98 43330801.16 0.0089 0.0028

Saturn 113923-09-28 10:03 G 43330850.78 43330850.92 43330851.05 0.0290 0.0044

Neptune 113923-11-05 14:37 G 43330888.95 43330889.11 43330889.29 0.0089 0.0038

Saturn 113923-12-25 22:46 G 43330939.33 43330939.45 43330939.57 0.0290 0.0126

Neptune 113924-02-01 17:58 G 43330977.10 43330977.25 43330977.42 0.0089 0.0047

Neptune 113924-04-29 21:20 G 43331065.26 43331065.39 43331065.55 0.0089 0.0057

Neptune 113924-07-27 00:41 G 43331153.42 43331153.53 43331153.67 0.0089 0.0067

Neptune 113924-10-23 03:49 G 43331241.59 43331241.66 43331241.78 0.0089 0.0077

Neptune 113925-01-19 07:39 G 43331329.78 43331329.82 43331329.88 0.0089 0.0086

Venus 113925-03-09 17:58 G 43331379.19 43331379.25 43331379.30 0.3688 0.3103

Jupiter 113925-09-01 04:17 G 43331554.55 43331554.68 43331554.81 0.0528 0.0112

Venus 113926-09-24 04:03 G 43331942.53 43331942.67 43331942.80 0.3682 0.1371

Earth 113928-07-23 10:46 G 43332610.90 43332610.95 43332611.01 0.2663 0.2287

Moon 113928-07-23 11:29 G 43332610.91 43332610.98 43332611.04 0.2659 0.2129 *

Jupiter 113932-01-12 05:29 G 43333878.55 43333878.73 43333878.90 0.0500 0.0093

Uranus 113933-06-20 18:41 G 43334404.19 43334404.28 43334404.36 0.0139 0.0121

Uranus 113933-09-17 01:10 G 43334492.43 43334492.55 43334492.69 0.0139 0.0096

Uranus 113933-12-14 07:53 G 43334580.68 43334580.83 43334580.99 0.0139 0.0071

Uranus 113934-03-12 14:51 G 43334668.95 43334669.12 43334669.29 0.0139 0.0045

Uranus 113934-06-08 21:49 G 43334757.23 43334757.41 43334757.59 0.0139 0.0020

Uranus 113934-09-05 04:32 G 43334845.51 43334845.69 43334845.88 0.0139 0.0006

Uranus 113934-12-02 11:29 G 43334933.80 43334933.98 43334934.16 0.0139 0.0032

Uranus 113935-02-28 18:13 G 43335022.10 43335022.26 43335022.44 0.0138 0.0058

Uranus 113935-05-28 01:10 G 43335110.41 43335110.55 43335110.71 0.0138 0.0084

Uranus 113935-08-24 08:08 G 43335198.74 43335198.84 43335198.97 0.0138 0.0110

Uranus 113935-11-20 15:20 G 43335287.11 43335287.14 43335287.18 0.0138 0.0135

Jupiter 113937-06-20 08:08 G 43335864.72 43335864.84 43335864.95 0.0529 0.0276

Jupiter 113937-09-17 16:17 G 43335954.10 43335954.18 43335954.27 0.0526 0.0390

Saturn 113937-10-21 22:32 G 43335988.36 43335988.44 43335988.53 0.0270 0.0237

Saturn 113938-01-18 18:13 G 43336077.08 43336077.26 43336077.43 0.0270 0.0056

Saturn 113938-04-17 13:53 G 43336165.92 43336166.08 43336166.24 0.0270 0.0128

Mars 113938-06-12 07:10 G 43336221.71 43336221.80 43336221.90 0.1822 0.1021

Moon 113941-07-26 04:32 G 43337361.58 43337361.69 43337361.80 0.2655 0.0655

Earth 113941-07-26 04:46 G 43337361.59 43337361.70 43337361.81 0.2661 0.0567 *

Jupiter 113943-10-31 04:03 G 43338188.50 43338188.67 43338188.85 0.0500 0.0098

Moon 113944-01-28 20:51 G 43338278.23 43338278.37 43338278.51 0.2665 0.1013

Earth 113944-01-28 20:51 G 43338278.23 43338278.37 43338278.51 0.2671 0.1052 *

Mars 113947-11-02 16:32 G 43339652.08 43339652.19 43339652.31 0.1830 0.0091

Mars 113948-11-29 07:25 G 43340044.67 43340044.81 43340044.95 0.1717 0.0963

Jupiter 113949-04-08 11:44 G 43340174.92 43340174.99 43340175.06 0.0530 0.0441

Jupiter 113949-07-06 20:22 G 43340264.23 43340264.35 43340264.47 0.0527 0.0234

Saturn 113952-11-17 21:49 G 43341494.38 43341494.41 43341494.45 0.0289 0.0278

Saturn 113953-02-14 10:46 G 43341582.82 43341582.95 43341583.07 0.0290 0.0107

Saturn 113953-05-13 23:29 G 43341671.35 43341671.48 43341671.61 0.0290 0.0063

Saturn 113953-08-10 11:58 G 43341759.92 43341760.00 43341760.08 0.0290 0.0230

Moon 113954-07-28 22:03 G 43342112.32 43342112.42 43342112.52 0.2658 0.1040

Earth 113954-07-28 22:46 G 43342112.35 43342112.45 43342112.55 0.2660 0.1128 *

Jupiter 113955-08-19 03:05 G 43342498.49 43342498.63 43342498.78 0.0499 0.0283

Jupiter 113955-11-17 07:39 G 43342588.82 43342588.82 43342588.83 0.0502 0.0502

Moon 113957-01-31 01:25 G 43343029.47 43343029.56 43343029.66 0.2669 0.2096

Earth 113957-01-31 02:51 G 43343029.55 43343029.62 43343029.69 0.2673 0.2396 *

Mars 113957-03-25 01:39 G 43343082.47 43343082.57 43343082.67 0.1839 0.0897

Mars 113958-04-21 06:27 G 43343474.61 43343474.77 43343474.93 0.1709 0.0421

Venus 113959-08-16 21:34 G 43343957.35 43343957.40 43343957.45 0.3701 0.3187

Jupiter 113961-04-25 00:13 G 43344574.38 43344574.51 43344574.64 0.0527 0.0073

Venus 113965-03-01 14:22 G 43345981.00 43345981.10 43345981.20 0.3698 0.1409

Jupiter 113967-06-07 02:22 G 43346808.54 43346808.60 43346808.67 0.0498 0.0461

Saturn 113967-06-07 15:49 G 43346809.01 43346809.16 43346809.33 0.0270 0.0124

Saturn 113967-09-04 11:44 G 43346897.81 43346897.99 43346898.17 0.0270 0.0059

Jupiter 113967-09-05 06:27 G 43346898.64 43346898.77 43346898.91 0.0501 0.0310

Saturn 113967-12-02 07:25 G 43346986.75 43346986.81 43346986.90 0.0269 0.0245

Venus 113970-09-15 06:56 G 43348004.68 43348004.79 43348004.89 0.3694 0.0321

Jupiter 113973-02-11 03:05 G 43348884.50 43348884.63 43348884.76 0.0528 0.0105

Moon 113974-07-24 15:20 G 43349413.07 43349413.14 43349413.21 0.2657 0.2015

Earth 113974-07-24 15:49 G 43349413.08 43349413.16 43349413.23 0.2663 0.1923 *

Venus 113976-03-30 23:15 G 43350028.38 43350028.47 43350028.56 0.3691 0.1999

Uranus 113976-09-21 10:46 G 43350202.88 43350202.95 43350203.01 0.0139 0.0122

Uranus 113976-12-18 14:08 G 43350291.01 43350291.09 43350291.20 0.0139 0.0103

Uranus 113977-03-16 17:58 G 43350379.15 43350379.25 43350379.37 0.0139 0.0083

Uranus 113977-06-12 21:49 G 43350467.29 43350467.41 43350467.54 0.0139 0.0063

Uranus 113977-09-09 01:39 G 43350555.44 43350555.57 43350555.70 0.0139 0.0043

Venus 113977-10-14 23:44 G 43350591.36 43350591.49 43350591.62 0.3679 0.1506

Uranus 113977-12-06 05:29 G 43350643.59 43350643.73 43350643.86 0.0139 0.0024

Mars 113977-12-11 07:25 G 43350648.72 43350648.81 43350648.90 0.1822 0.1147

Uranus 113978-03-04 09:05 G 43350731.74 43350731.88 43350732.02 0.0139 0.0004

Uranus 113978-05-31 12:41 G 43350819.90 43350820.03 43350820.17 0.0139 0.0016

Uranus 113978-08-27 16:17 G 43350908.05 43350908.18 43350908.32 0.0140 0.0036

Uranus 113978-11-23 20:08 G 43350996.21 43350996.34 43350996.46 0.0140 0.0055

Uranus 113979-02-19 23:29 G 43351084.38 43351084.48 43351084.61 0.0140 0.0075

Uranus 113979-05-19 03:20 G 43351172.54 43351172.64 43351172.74 0.0140 0.0094

Jupiter 113979-06-24 04:46 G 43351208.53 43351208.70 43351208.88 0.0501 0.0116

Uranus 113979-08-15 06:56 G 43351260.71 43351260.79 43351260.87 0.0140 0.0113

Uranus 113979-11-11 10:17 G 43351348.90 43351348.93 43351348.98 0.0140 0.0133

Venus 113981-10-14 15:34 G 43352052.14 43352052.15 43352052.16 0.3687 0.3635

Pluto 113982-04-15 20:51 G 43352235.37 43352235.37 43352235.39 0.0085 0.0085

Saturn 113982-07-04 12:56 G 43352314.92 43352315.04 43352315.15 0.0290 0.0153

Pluto 113982-07-12 22:03 G 43352323.35 43352323.42 43352323.51 0.0085 0.0067

Saturn 113982-10-01 01:39 G 43352403.44 43352403.57 43352403.71 0.0290 0.0018

Pluto 113982-10-08 23:15 G 43352411.38 43352411.47 43352411.59 0.0085 0.0049

Saturn 113982-12-28 14:08 G 43352492.00 43352492.09 43352492.20 0.0290 0.0187

Pluto 113983-01-05 00:41 G 43352499.41 43352499.53 43352499.66 0.0085 0.0031

Pluto 113983-04-03 01:53 G 43352587.45 43352587.58 43352587.72 0.0085 0.0013

Venus 113983-05-01 05:15 G 43352615.62 43352615.72 43352615.82 0.3684 0.2707

Pluto 113983-06-30 03:20 G 43352675.50 43352675.64 43352675.77 0.0085 0.0006

Pluto 113983-09-26 04:17 G 43352763.56 43352763.68 43352763.81 0.0084 0.0023

Pluto 113983-12-23 05:29 G 43352851.62 43352851.73 43352851.85 0.0084 0.0041

Pluto 113984-03-20 06:41 G 43352939.69 43352939.78 43352939.88 0.0084 0.0058

Pluto 113984-06-16 07:53 G 43353027.78 43353027.83 43353027.89 0.0084 0.0076

Jupiter 113984-11-30 06:27 G 43353194.66 43353194.77 43353194.89 0.0529 0.0275

Jupiter 113985-02-27 14:51 G 43353284.03 43353284.12 43353284.21 0.0526 0.0390

Mars 113987-05-03 16:32 G 43354079.07 43354079.19 43354079.30 0.1830 0.0198

Moon 113987-07-27 08:51 G 43354163.76 43354163.87 43354163.99 0.2661 0.0290

Earth 113987-07-27 09:49 G 43354163.79 43354163.91 43354164.02 0.2661 0.0226 *

Mars 113988-05-30 08:08 G 43354471.71 43354471.84 43354471.96 0.1717 0.1134

Moon 113990-01-29 01:39 G 43355080.42 43355080.57 43355080.72 0.2671 0.0536

Earth 113990-01-29 03:20 G 43355080.49 43355080.64 43355080.79 0.2672 0.0385 *

Jupiter 113991-04-12 02:22 G 43355518.43 43355518.60 43355518.78 0.0499 0.0094

Jupiter 113996-09-18 10:03 G 43357504.85 43357504.92 43357505.00 0.0530 0.0443

Mars 113996-09-23 01:39 G 43357509.46 43357509.57 43357509.67 0.1839 0.0771

Saturn 113996-10-24 17:15 G 43357541.08 43357541.22 43357541.36 0.0270 0.0161

Jupiter 113996-12-16 18:56 G 43357594.17 43357594.29 43357594.41 0.0527 0.0234

Saturn 113997-01-21 12:56 G 43357629.86 43357630.04 43357630.22 0.0270 0.0022

Saturn 113997-04-20 08:37 G 43357718.75 43357718.86 43357718.98 0.0270 0.0206

Mars 113997-10-20 07:10 G 43357901.64 43357901.80 43357901.97 0.1709 0.0238

Moon 114000-07-29 03:20 G 43358914.55 43358914.64 43358914.73 0.2666 0.1397

Earth 114000-07-29 03:34 G 43358914.56 43358914.65 43358914.74 0.2659 0.1480 *

115TH MILLENNIUM CE

This is a list of transits of Mercury in the 115th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Neptune 114001-01-19 02:51 G 43359088.62 43359088.62 43359088.63 0.0088 0.0088

Neptune 114001-04-17 04:03 G 43359176.63 43359176.67 43359176.74 0.0088 0.0081

Neptune 114001-07-14 05:44 G 43359264.67 43359264.74 43359264.82 0.0088 0.0074

Neptune 114001-10-10 07:10 G 43359352.72 43359352.80 43359352.90 0.0088 0.0067

Neptune 114002-01-06 08:37 G 43359440.77 43359440.86 43359440.97 0.0088 0.0061

Neptune 114002-04-04 10:17 G 43359528.82 43359528.93 43359529.04 0.0088 0.0053

Neptune 114002-07-01 11:29 G 43359616.87 43359616.98 43359617.11 0.0088 0.0047

Neptune 114002-09-27 12:56 G 43359704.93 43359705.04 43359705.17 0.0088 0.0041

Neptune 114002-12-24 14:37 G 43359792.98 43359793.11 43359793.24 0.0088 0.0033

Jupiter 114003-01-29 01:25 G 43359828.41 43359828.56 43359828.70 0.0499 0.0280

Neptune 114003-03-22 16:03 G 43359881.04 43359881.17 43359881.30 0.0088 0.0026

Jupiter 114003-04-29 05:44 G 43359918.74 43359918.74 43359918.75 0.0502 0.0501

Neptune 114003-06-18 17:29 G 43359969.10 43359969.23 43359969.37 0.0088 0.0020

Neptune 114003-09-14 18:56 G 43360057.16 43360057.29 43360057.43 0.0088 0.0013

Neptune 114003-12-11 20:22 G 43360145.21 43360145.35 43360145.49 0.0088 0.0006

Neptune 114004-03-08 21:49 G 43360233.27 43360233.41 43360233.55 0.0088 0.0001

Neptune 114004-06-04 23:15 G 43360321.33 43360321.47 43360321.61 0.0088 0.0007

Neptune 114004-09-01 00:41 G 43360409.40 43360409.53 43360409.67 0.0088 0.0014

Neptune 114004-11-28 01:53 G 43360497.46 43360497.58 43360497.72 0.0088 0.0021

Neptune 114005-02-24 03:34 G 43360585.52 43360585.65 43360585.78 0.0088 0.0027

Neptune 114005-05-23 04:46 G 43360673.58 43360673.70 43360673.83 0.0088 0.0034

Neptune 114005-08-19 06:13 G 43360761.65 43360761.76 43360761.89 0.0088 0.0041

Neptune 114005-11-15 07:39 G 43360849.71 43360849.82 43360849.94 0.0088 0.0047

Neptune 114006-02-11 08:51 G 43360937.77 43360937.87 43360937.99 0.0088 0.0054

Mars 114006-02-13 10:32 G 43360939.91 43360939.94 43360939.97 0.1847 0.1772

Neptune 114006-05-10 10:32 G 43361025.84 43361025.94 43361026.04 0.0088 0.0060

Neptune 114006-08-06 11:44 G 43361113.91 43361113.99 43361114.08 0.0088 0.0067

Neptune 114006-11-02 13:10 G 43361201.98 43361202.05 43361202.13 0.0088 0.0073

Neptune 114007-01-29 14:22 G 43361290.06 43361290.10 43361290.17 0.0088 0.0080

Mars 114007-03-12 06:27 G 43361331.71 43361331.77 43361331.83 0.1701 0.1579

Neptune 114007-04-27 16:03 G 43361378.15 43361378.17 43361378.19 0.0088 0.0086

Jupiter 114008-10-04 22:46 G 43361904.32 43361904.45 43361904.59 0.0528 0.0079

Saturn 114011-11-21 13:39 G 43363046.98 43363047.07 43363047.16 0.0289 0.0215

Saturn 114012-02-18 02:37 G 43363135.47 43363135.61 43363135.74 0.0289 0.0045

Saturn 114012-05-16 15:05 G 43363224.01 43363224.13 43363224.26 0.0290 0.0124

Jupiter 114014-11-17 00:27 G 43364138.46 43364138.52 43364138.59 0.0498 0.0462

Jupiter 114015-02-15 04:32 G 43364228.55 43364228.69 43364228.83 0.0501 0.0308

Venus 114016-03-22 19:25 G 43364630.23 43364630.31 43364630.38 0.3700 0.2605

Uranus 114017-04-13 19:25 G 43365017.30 43365017.31 43365017.34 0.0139 0.0138

Mars 114017-06-11 07:10 G 43365075.72 43365075.80 43365075.88 0.1821 0.1247

Uranus 114017-07-11 02:08 G 43365105.50 43365105.59 43365105.71 0.0139 0.0113

Uranus 114017-10-07 08:51 G 43365193.74 43365193.87 43365194.02 0.0139 0.0088

Uranus 114018-01-03 15:49 G 43365282.00 43365282.16 43365282.33 0.0139 0.0062

Uranus 114018-04-01 22:32 G 43365370.27 43365370.44 43365370.62 0.0139 0.0037

Uranus 114018-06-29 05:29 G 43365458.55 43365458.73 43365458.91 0.0139 0.0011

Uranus 114018-09-25 12:27 G 43365546.84 43365547.02 43365547.20 0.0139 0.0015

Uranus 114018-12-22 19:10 G 43365635.13 43365635.30 43365635.48 0.0139 0.0040

Uranus 114019-03-21 01:53 G 43365723.43 43365723.58 43365723.76 0.0139 0.0067

Uranus 114019-06-17 08:51 G 43365811.75 43365811.87 43365812.02 0.0138 0.0093

Uranus 114019-09-13 15:49 G 43365900.08 43365900.16 43365900.27 0.0138 0.0119

Jupiter 114020-07-24 02:37 G 43366214.48 43366214.61 43366214.74 0.0528 0.0087

Moon 114020-07-24 19:53 G 43366215.24 43366215.33 43366215.41 0.2665 0.1736

Earth 114020-07-24 20:37 G 43366215.27 43366215.36 43366215.45 0.2662 0.1558 *

Venus 114021-10-06 11:58 G 43366653.90 43366654.00 43366654.11 0.3697 0.0853

Saturn 114026-03-13 14:37 G 43368273.03 43368273.11 43368273.20 0.0270 0.0232

Saturn 114026-06-10 10:17 G 43368361.75 43368361.93 43368362.11 0.0270 0.0051

Saturn 114026-09-07 05:58 G 43368450.60 43368450.75 43368450.91 0.0270 0.0133

Mars 114026-11-01 16:32 G 43368506.08 43368506.19 43368506.30 0.1830 0.0317

Jupiter 114026-12-04 03:20 G 43368538.47 43368538.64 43368538.81 0.0501 0.0120

Venus 114027-04-22 04:32 G 43368677.59 43368677.69 43368677.79 0.3693 0.0863

Mars 114027-11-29 09:05 G 43368898.77 43368898.88 43368898.98 0.1717 0.1331

Jupiter 114032-05-12 05:44 G 43370524.62 43370524.74 43370524.85 0.0529 0.0264

Jupiter 114032-08-09 13:53 G 43370614.00 43370614.08 43370614.16 0.0526 0.0400

Venus 114032-11-04 20:51 G 43370701.30 43370701.37 43370701.45 0.3690 0.2540

Moon 114033-07-27 14:22 G 43370965.99 43370966.10 43370966.22 0.2667 0.0209

Earth 114033-07-27 14:37 G 43370966.00 43370966.11 43370966.22 0.2661 0.0162 *

Venus 114034-05-22 00:41 G 43371264.39 43371264.53 43371264.68 0.3680 0.0266

Moon 114036-01-30 08:51 G 43371882.72 43371882.87 43371883.03 0.2678 0.0129

Earth 114036-01-30 09:49 G 43371882.75 43371882.91 43371883.06 0.2672 0.0288 *

Mars 114036-03-24 01:39 G 43371936.46 43371936.57 43371936.68 0.1838 0.0651

Mars 114037-04-20 07:53 G 43372328.66 43372328.83 43372328.99 0.1709 0.0080

Jupiter 114038-09-22 02:08 G 43372848.41 43372848.59 43372848.76 0.0500 0.0071

Saturn 114041-04-09 15:20 G 43373779.09 43373779.14 43373779.20 0.0289 0.0267

Saturn 114041-07-07 04:17 G 43373867.55 43373867.68 43373867.81 0.0290 0.0096

Saturn 114041-10-03 17:01 G 43373956.08 43373956.21 43373956.34 0.0290 0.0074

Saturn 114041-12-31 05:29 G 43374044.66 43374044.73 43374044.81 0.0290 0.0242

Jupiter 114044-02-29 08:51 G 43374834.80 43374834.87 43374834.95 0.0530 0.0436

Jupiter 114044-05-28 17:44 G 43374924.12 43374924.24 43374924.35 0.0527 0.0239

Mars 114045-08-14 10:32 G 43375366.89 43375366.94 43375366.99 0.1847 0.1658

Earth 114046-07-30 08:22 G 43375716.77 43375716.85 43375716.93 0.2659 0.1831

Moon 114046-07-30 08:51 G 43375716.80 43375716.87 43375716.95 0.2663 0.1911 *

Mars 114046-09-10 07:10 G 43375758.71 43375758.80 43375758.89 0.1701 0.1411

Jupiter 114050-07-10 23:58 G 43377158.35 43377158.50 43377158.64 0.0498 0.0273

Saturn 114055-07-31 15:49 G 43379005.16 43379005.16 43379005.17 0.0271 0.0270

Saturn 114055-10-28 11:15 G 43379093.81 43379093.97 43379094.14 0.0270 0.0089

Saturn 114056-01-25 06:56 G 43379182.63 43379182.79 43379182.97 0.0270 0.0095

Jupiter 114056-03-16 21:34 G 43379234.27 43379234.40 43379234.53 0.0528 0.0079

Mars 114056-12-10 07:10 G 43379502.73 43379502.80 43379502.88 0.1821 0.1366

Uranus 114060-07-15 14:22 G 43380816.08 43380816.10 43380816.14 0.0139 0.0135

Uranus 114060-10-11 18:13 G 43380904.19 43380904.26 43380904.35 0.0139 0.0115

Uranus 114061-01-07 22:03 G 43380992.33 43380992.42 43380992.53 0.0139 0.0095

Uranus 114061-04-06 01:53 G 43381080.47 43381080.58 43381080.70 0.0139 0.0075

Uranus 114061-07-03 05:44 G 43381168.61 43381168.74 43381168.87 0.0139 0.0055

Uranus 114061-09-29 09:20 G 43381256.76 43381256.89 43381257.03 0.0139 0.0036

Uranus 114061-12-26 13:10 G 43381344.91 43381345.05 43381345.19 0.0139 0.0016

Uranus 114062-03-24 16:46 G 43381433.07 43381433.20 43381433.34 0.0139 0.0006

Jupiter 114062-04-28 23:01 G 43381468.40 43381468.46 43381468.53 0.0498 0.0455

Uranus 114062-06-20 20:37 G 43381521.22 43381521.36 43381521.49 0.0140 0.0023

Jupiter 114062-07-28 02:51 G 43381558.48 43381558.62 43381558.76 0.0501 0.0312

Uranus 114062-09-17 00:13 G 43381609.38 43381609.51 43381609.64 0.0140 0.0043

Uranus 114062-12-14 03:49 G 43381697.54 43381697.66 43381697.78 0.0140 0.0062

Uranus 114063-03-12 07:25 G 43381785.70 43381785.81 43381785.92 0.0140 0.0082

Uranus 114063-06-08 11:01 G 43381873.87 43381873.96 43381874.06 0.0140 0.0101

Uranus 114063-09-04 14:37 G 43381962.05 43381962.11 43381962.18 0.0140 0.0121

Uranus 114063-12-01 18:13 G 43382050.26 43382050.26 43382050.27 0.0140 0.0140

Mars 114066-05-02 16:32 G 43382933.08 43382933.19 43382933.30 0.1830 0.0429

Moon 114066-07-26 01:25 G 43383017.46 43383017.56 43383017.66 0.2669 0.1149

Earth 114066-07-26 01:25 G 43383017.46 43383017.56 43383017.66 0.2662 0.1198 *

Mars 114067-05-30 09:49 G 43383325.83 43383325.91 43383325.99 0.1718 0.1514

Jupiter 114068-01-04 01:25 G 43383544.43 43383544.56 43383544.69 0.0529 0.0081

Moon 114069-01-27 10:17 G 43383933.86 43383933.93 43383934.00 0.2677 0.2358

Earth 114069-01-27 10:32 G 43383933.88 43383933.94 43383934.00 0.2670 0.2423 *

Saturn 114070-11-24 05:15 G 43384599.61 43384599.72 43384599.83 0.0289 0.0155

Saturn 114071-02-20 17:58 G 43384688.12 43384688.25 43384688.39 0.0289 0.0014

Saturn 114071-05-20 06:27 G 43384776.67 43384776.77 43384776.88 0.0290 0.0182

Venus 114072-10-27 17:15 G 43385303.13 43385303.22 43385303.30 0.3699 0.2027

Jupiter 114074-05-16 01:25 G 43385868.39 43385868.56 43385868.74 0.0500 0.0121

Mars 114075-09-23 01:39 G 43386363.46 43386363.57 43386363.68 0.1838 0.0546

Mars 114076-10-19 08:37 G 43386755.69 43386755.86 43386756.03 0.1709 0.0112

Venus 114078-05-13 09:49 G 43387326.80 43387326.91 43387327.01 0.3696 0.0298

Earth 114079-07-28 19:25 G 43387768.20 43387768.31 43387768.42 0.2660 0.0509

Moon 114079-07-28 20:08 G 43387768.23 43387768.34 43387768.45 0.2662 0.0579 *

Jupiter 114079-10-23 05:01 G 43387854.60 43387854.71 43387854.83 0.0529 0.0246

Jupiter 114080-01-20 13:25 G 43387943.98 43387944.06 43387944.14 0.0526 0.0418

Earth 114082-01-30 16:03 G 43388685.03 43388685.17 43388685.32 0.2672 0.0947

Moon 114082-01-30 17:29 G 43388685.09 43388685.23 43388685.37 0.2675 0.1073 *

Venus 114083-11-27 02:08 G 43389350.50 43389350.59 43389350.69 0.3692 0.1424

Mars 114085-02-12 10:32 G 43389793.88 43389793.94 43389794.01 0.1847 0.1534

Saturn 114085-03-16 08:22 G 43389825.72 43389825.85 43389826.00 0.0270 0.0164

Venus 114085-06-11 20:51 G 43389913.29 43389913.37 43389913.45 0.3676 0.3008

Neptune 114085-06-12 17:29 G 43389914.18 43389914.23 43389914.30 0.0089 0.0084

Saturn 114085-06-13 04:03 G 43389914.50 43389914.67 43389914.85 0.0270 0.0020

Neptune 114085-09-08 20:37 G 43390002.27 43390002.36 43390002.47 0.0089 0.0074

Saturn 114085-09-09 23:58 G 43390003.39 43390003.50 43390003.62 0.0270 0.0204

Neptune 114085-12-05 23:44 G 43390090.38 43390090.49 43390090.63 0.0089 0.0065

Jupiter 114086-03-04 00:41 G 43390178.35 43390178.53 43390178.70 0.0500 0.0065

Neptune 114086-03-04 03:20 G 43390178.50 43390178.64 43390178.78 0.0089 0.0056 *

Mars 114086-03-11 07:53 G 43390185.72 43390185.83 43390185.95 0.1701 0.1228

Neptune 114086-05-31 06:27 G 43390266.62 43390266.77 43390266.93 0.0089 0.0046

Neptune 114086-08-27 09:34 G 43390354.74 43390354.90 43390355.08 0.0089 0.0037

Neptune 114086-11-23 13:10 G 43390442.87 43390443.05 43390443.22 0.0089 0.0028

Neptune 114087-02-19 16:17 G 43390531.00 43390531.18 43390531.36 0.0089 0.0018

Neptune 114087-05-18 19:39 G 43390619.14 43390619.32 43390619.50 0.0089 0.0009

Neptune 114087-08-14 23:01 G 43390707.27 43390707.46 43390707.64 0.0089 0.0001

Neptune 114087-11-11 02:08 G 43390795.41 43390795.59 43390795.78 0.0089 0.0011

Neptune 114088-02-07 05:29 G 43390883.55 43390883.73 43390883.92 0.0089 0.0020

Neptune 114088-05-05 08:51 G 43390971.70 43390971.87 43390972.05 0.0089 0.0029

Neptune 114088-08-01 11:58 G 43391059.84 43391060.00 43391060.18 0.0089 0.0039

Neptune 114088-10-28 15:34 G 43391148.00 43391148.15 43391148.31 0.0089 0.0049

Neptune 114089-01-24 18:41 G 43391236.15 43391236.28 43391236.43 0.0089 0.0058

Neptune 114089-04-22 22:17 G 43391324.31 43391324.43 43391324.55 0.0089 0.0068

Venus 114089-06-11 18:41 G 43391374.22 43391374.28 43391374.33 0.3688 0.3070

Neptune 114089-07-20 01:25 G 43391412.48 43391412.56 43391412.67 0.0089 0.0078

Neptune 114089-10-16 04:46 G 43391500.68 43391500.70 43391500.76 0.0089 0.0087

Venus 114090-12-27 02:08 G 43391937.45 43391937.59 43391937.73 0.3681 0.1064

Jupiter 114091-08-11 08:08 G 43392164.76 43392164.84 43392164.92 0.0530 0.0424

Jupiter 114091-11-08 16:46 G 43392254.08 43392254.20 43392254.31 0.0527 0.0250

Earth 114092-07-30 13:10 G 43392518.99 43392519.05 43392519.11 0.2659 0.2178

Moon 114092-07-30 13:39 G 43392519.01 43392519.07 43392519.12 0.2653 0.2295 *

Mars 114096-06-10 07:10 G 43393929.74 43393929.80 43393929.87 0.1821 0.1487

Jupiter 114097-12-20 23:29 G 43394488.33 43394488.48 43394488.63 0.0499 0.0250

Earth 114099-07-24 12:13 G 43395068.98 43395069.01 43395069.04 0.2663 0.2566

Moon 114099-07-24 12:27 G 43395069.00 43395069.02 43395069.05 0.2670 0.2580 *

Saturn 114100-04-13 06:41 G 43395331.69 43395331.78 43395331.87 0.0289 0.0210

Saturn 114100-07-10 19:39 G 43395420.18 43395420.32 43395420.45 0.0290 0.0041

Saturn 114100-10-07 08:08 G 43395508.72 43395508.84 43395508.96 0.0290 0.0129

Uranus 114101-05-05 03:34 G 43395718.60 43395718.65 43395718.73 0.0139 0.0128

Uranus 114101-08-01 10:17 G 43395806.82 43395806.93 43395807.06 0.0139 0.0103

Uranus 114101-10-28 17:01 G 43395895.07 43395895.21 43395895.37 0.0139 0.0078

Uranus 114102-01-24 23:58 G 43395983.34 43395983.50 43395983.67 0.0139 0.0053

Uranus 114102-04-23 06:56 G 43396071.61 43396071.79 43396071.97 0.0139 0.0027

Uranus 114102-07-20 13:39 G 43396159.89 43396160.07 43396160.25 0.0139 0.0002

Uranus 114102-10-16 20:22 G 43396248.18 43396248.35 43396248.54 0.0139 0.0025

Uranus 114103-01-13 03:34 G 43396336.47 43396336.65 43396336.82 0.0139 0.0050

Uranus 114103-04-11 10:17 G 43396424.78 43396424.93 43396425.09 0.0139 0.0076

Uranus 114103-07-08 17:15 G 43396513.10 43396513.22 43396513.35 0.0138 0.0102

Jupiter 114103-08-28 20:22 G 43396564.22 43396564.35 43396564.48 0.0528 0.0086

Uranus 114103-10-05 00:13 G 43396601.45 43396601.51 43396601.58 0.0138 0.0128

Mars 114105-11-01 16:32 G 43397360.08 43397360.19 43397360.30 0.1829 0.0545

Mars 114106-11-29 10:17 G 43397752.90 43397752.93 43397752.96 0.1718 0.1680

Jupiter 114109-10-09 21:34 G 43398798.33 43398798.40 43398798.48 0.0498 0.0447

Jupiter 114110-01-08 01:25 G 43398888.43 43398888.56 43398888.70 0.0501 0.0320

Earth 114112-07-27 06:13 G 43399819.66 43399819.76 43399819.87 0.2662 0.0843

Moon 114112-07-27 06:56 G 43399819.68 43399819.79 43399819.90 0.2660 0.0660 *

Saturn 114114-08-04 09:20 G 43400557.78 43400557.89 43400558.01 0.0271 0.0203

Saturn 114114-11-01 05:01 G 43400646.53 43400646.71 43400646.89 0.0270 0.0021

Saturn 114115-01-29 00:41 G 43400735.39 43400735.53 43400735.68 0.0270 0.0164

Earth 114115-01-29 16:46 G 43400736.09 43400736.20 43400736.32 0.2671 0.1771

Moon 114115-01-29 18:27 G 43400736.14 43400736.27 43400736.39 0.2671 0.1548 *

Mars 114115-03-25 01:39 G 43400790.46 43400790.57 43400790.68 0.1838 0.0427

Jupiter 114115-06-16 23:58 G 43400874.37 43400874.50 43400874.63 0.0529 0.0080

Mars 114116-04-20 09:34 G 43401182.73 43401182.90 43401183.06 0.1710 0.0302

Jupiter 114121-10-26 23:58 G 43403198.33 43403198.50 43403198.68 0.0500 0.0128

Venus 114123-11-19 22:03 G 43403952.37 43403952.42 43403952.47 0.3702 0.3236

Mars 114124-08-14 10:32 G 43404220.87 43404220.94 43404221.02 0.1847 0.1423

Earth 114125-07-30 00:13 G 43404570.40 43404570.51 43404570.62 0.2660 0.0862

Moon 114125-07-30 00:27 G 43404570.42 43404570.52 43404570.63 0.2654 0.0867 *

Mars 114125-09-10 08:37 G 43404612.73 43404612.86 43404612.99 0.1702 0.1058

Jupiter 114127-04-05 03:49 G 43405184.54 43405184.66 43405184.78 0.0530 0.0242

Jupiter 114127-07-03 11:58 G 43405273.93 43405274.00 43405274.08 0.0526 0.0425

Earth 114128-02-01 22:32 G 43405487.32 43405487.44 43405487.57 0.2673 0.1631

Moon 114128-02-01 23:44 G 43405487.38 43405487.49 43405487.60 0.2668 0.1847 *

Venus 114129-06-04 14:51 G 43405976.02 43405976.12 43405976.22 0.3698 0.1453

Saturn 114129-08-31 07:53 G 43406063.78 43406063.83 43406063.88 0.0288 0.0266

Saturn 114129-11-27 20:51 G 43406152.24 43406152.37 43406152.50 0.0289 0.0096

Saturn 114130-02-24 09:20 G 43406240.76 43406240.89 43406241.03 0.0289 0.0073

Saturn 114130-05-23 21:49 G 43406329.34 43406329.41 43406329.49 0.0289 0.0240

Pluto 114131-12-24 10:46 G 43406908.94 43406908.95 43406909.02 0.0059 0.0059

Pluto 114132-03-21 12:13 G 43406996.93 43406997.01 43406997.15 0.0059 0.0050

Pluto 114132-06-17 14:08 G 43407084.95 43407085.09 43407085.24 0.0060 0.0040

Pluto 114132-09-13 15:20 G 43407172.98 43407173.14 43407173.32 0.0060 0.0031

Pluto 114132-12-10 16:46 G 43407261.03 43407261.20 43407261.40 0.0060 0.0022

Pluto 114133-03-08 18:27 G 43407349.08 43407349.27 43407349.46 0.0060 0.0012

Pluto 114133-06-04 19:53 G 43407437.13 43407437.33 43407437.53 0.0060 0.0003

Jupiter 114133-08-14 22:46 G 43407508.28 43407508.45 43407508.63 0.0499 0.0063

Pluto 114133-08-31 21:05 G 43407525.19 43407525.38 43407525.58 0.0060 0.0007

Pluto 114133-11-27 22:32 G 43407613.25 43407613.44 43407613.64 0.0060 0.0016

Pluto 114134-02-23 23:58 G 43407701.32 43407701.50 43407701.68 0.0060 0.0025

Pluto 114134-05-23 00:56 G 43407789.40 43407789.54 43407789.72 0.0060 0.0035

Pluto 114134-08-19 02:37 G 43407877.49 43407877.61 43407877.75 0.0060 0.0044

Pluto 114134-11-15 03:34 G 43407965.59 43407965.65 43407965.77 0.0060 0.0054

Venus 114134-12-19 07:25 G 43407999.71 43407999.81 43407999.92 0.3695 0.0286

Mars 114135-12-11 07:10 G 43408356.75 43408356.80 43408356.85 0.1821 0.1592

Moon 114138-08-01 17:29 G 43409321.19 43409321.23 43409321.27 0.2653 0.2472

Earth 114138-08-01 17:58 G 43409321.22 43409321.25 43409321.28 0.2658 0.2531 *

Jupiter 114139-01-22 07:25 G 43409494.73 43409494.81 43409494.89 0.0530 0.0407

Jupiter 114139-04-21 16:03 G 43409584.06 43409584.17 43409584.29 0.0527 0.0268

Venus 114140-07-03 23:58 G 43410023.41 43410023.50 43410023.59 0.3691 0.1962

Venus 114142-01-17 21:49 G 43410586.29 43410586.41 43410586.54 0.3678 0.1775

Saturn 114144-03-20 01:53 G 43411378.42 43411378.58 43411378.75 0.0270 0.0097

Saturn 114144-06-16 21:49 G 43411467.24 43411467.41 43411467.58 0.0270 0.0087

Uranus 114144-08-05 22:03 G 43411517.38 43411517.42 43411517.48 0.0139 0.0128

Uranus 114144-11-02 01:53 G 43411605.50 43411605.58 43411605.67 0.0139 0.0108

Uranus 114145-01-29 05:29 G 43411693.64 43411693.73 43411693.85 0.0139 0.0089

Uranus 114145-04-27 09:20 G 43411781.78 43411781.89 43411782.02 0.0139 0.0069

Mars 114145-05-02 16:32 G 43411787.08 43411787.19 43411787.29 0.1830 0.0660

Jupiter 114145-06-02 22:03 G 43411818.27 43411818.42 43411818.58 0.0499 0.0243

Uranus 114145-07-24 13:10 G 43411869.93 43411870.05 43411870.18 0.0139 0.0049

Earth 114145-07-25 17:01 G 43411871.15 43411871.21 43411871.28 0.2663 0.2202

Moon 114145-07-25 17:44 G 43411871.17 43411871.24 43411871.31 0.2660 0.2060 *

Uranus 114145-10-20 17:01 G 43411958.07 43411958.21 43411958.35 0.0139 0.0029

Uranus 114146-01-16 20:37 G 43412046.23 43412046.36 43412046.50 0.0139 0.0010

Venus 114146-01-17 16:17 G 43412047.16 43412047.18 43412047.20 0.3687 0.3599

Uranus 114146-04-15 00:27 G 43412134.38 43412134.52 43412134.66 0.0139 0.0010

Uranus 114146-07-12 04:03 G 43412222.54 43412222.67 43412222.81 0.0140 0.0030

Uranus 114146-10-08 07:39 G 43412310.70 43412310.82 43412310.95 0.0140 0.0049

Uranus 114147-01-04 11:15 G 43412398.86 43412398.97 43412399.10 0.0140 0.0069

Uranus 114147-04-02 15:05 G 43412487.02 43412487.13 43412487.23 0.0140 0.0088

Uranus 114147-06-29 18:41 G 43412575.19 43412575.28 43412575.37 0.0140 0.0107

Venus 114147-08-04 03:20 G 43412610.53 43412610.64 43412610.75 0.3682 0.2376

Uranus 114147-09-25 22:03 G 43412663.38 43412663.42 43412663.49 0.0140 0.0127

Jupiter 114151-02-07 19:25 G 43413894.18 43413894.31 43413894.44 0.0527 0.0099

Mars 114154-09-23 01:39 G 43415217.46 43415217.57 43415217.69 0.1838 0.0303

Mars 114155-10-20 10:03 G 43415609.76 43415609.92 43415610.08 0.1710 0.0463

Jupiter 114157-03-21 21:20 G 43416128.30 43416128.39 43416128.48 0.0498 0.0425

Jupiter 114157-06-20 01:10 G 43416218.42 43416218.55 43416218.68 0.0501 0.0344

Moon 114158-07-28 11:15 G 43416621.86 43416621.97 43416622.08 0.2655 0.0505

Earth 114158-07-28 11:15 G 43416621.86 43416621.97 43416622.08 0.2662 0.0479 *

Saturn 114159-04-16 22:03 G 43416884.30 43416884.42 43416884.53 0.0289 0.0154

Saturn 114159-07-14 10:46 G 43416972.81 43416972.95 43416973.09 0.0289 0.0016

Saturn 114159-10-10 23:15 G 43417061.37 43417061.47 43417061.58 0.0290 0.0184

Earth 114161-01-29 23:15 G 43417538.33 43417538.47 43417538.61 0.2671 0.1105

Moon 114161-01-29 23:44 G 43417538.35 43417538.49 43417538.63 0.2664 0.1166 *

Jupiter 114162-11-26 23:01 G 43418204.33 43418204.46 43418204.59 0.0529 0.0069

Mars 114164-02-13 10:32 G 43418647.86 43418647.94 43418648.02 0.1846 0.1306

Mars 114165-03-11 09:20 G 43419039.75 43419039.89 43419040.04 0.1702 0.0884

Neptune 114165-10-17 01:53 G 43419259.56 43419259.58 43419259.61 0.0088 0.0086

Neptune 114166-01-13 03:20 G 43419347.59 43419347.64 43419347.71 0.0088 0.0079

Neptune 114166-04-11 04:46 G 43419435.63 43419435.70 43419435.79 0.0088 0.0073

Neptune 114166-07-08 06:27 G 43419523.68 43419523.77 43419523.86 0.0088 0.0066

Neptune 114166-10-04 07:39 G 43419611.73 43419611.82 43419611.93 0.0088 0.0059

Neptune 114166-12-31 09:05 G 43419699.78 43419699.88 43419700.00 0.0088 0.0052

Neptune 114167-03-29 10:46 G 43419787.84 43419787.95 43419788.07 0.0088 0.0045

Neptune 114167-06-25 12:13 G 43419875.89 43419876.01 43419876.14 0.0088 0.0038

Neptune 114167-09-21 13:53 G 43419963.95 43419964.08 43419964.20 0.0088 0.0031

Neptune 114167-12-18 15:05 G 43420052.00 43420052.13 43420052.27 0.0088 0.0025

Neptune 114168-03-15 16:32 G 43420140.06 43420140.19 43420140.33 0.0088 0.0018

Neptune 114168-06-11 18:13 G 43420228.12 43420228.26 43420228.39 0.0088 0.0011

Neptune 114168-09-07 19:39 G 43420316.18 43420316.32 43420316.45 0.0088 0.0005

Neptune 114168-12-04 21:05 G 43420404.24 43420404.38 43420404.51 0.0088 0.0003

Neptune 114169-03-02 22:32 G 43420492.30 43420492.44 43420492.57 0.0088 0.0009

Jupiter 114169-04-07 23:01 G 43420528.29 43420528.46 43420528.63 0.0500 0.0138

Neptune 114169-05-29 23:44 G 43420580.36 43420580.49 43420580.63 0.0088 0.0016

Neptune 114169-08-26 01:10 G 43420668.42 43420668.55 43420668.69 0.0088 0.0022

Neptune 114169-11-22 02:37 G 43420756.48 43420756.61 43420756.74 0.0088 0.0029

Neptune 114170-02-18 03:49 G 43420844.55 43420844.66 43420844.80 0.0088 0.0036

Neptune 114170-05-17 05:29 G 43420932.61 43420932.73 43420932.85 0.0088 0.0042

Neptune 114170-08-13 06:41 G 43421020.68 43421020.78 43421020.90 0.0088 0.0049

Neptune 114170-11-09 08:22 G 43421108.74 43421108.85 43421108.95 0.0088 0.0055

Neptune 114171-02-05 09:34 G 43421196.81 43421196.90 43421197.00 0.0088 0.0062

Neptune 114171-05-04 11:01 G 43421284.88 43421284.96 43421285.05 0.0088 0.0068

Moon 114171-07-31 04:17 G 43421372.58 43421372.68 43421372.78 0.2658 0.1130

Earth 114171-07-31 05:01 G 43421372.61 43421372.71 43421372.81 0.2660 0.1218 *

Neptune 114171-07-31 12:13 G 43421372.95 43421373.01 43421373.09 0.0088 0.0075

Neptune 114171-10-27 13:25 G 43421461.03 43421461.06 43421461.12 0.0088 0.0082

Saturn 114173-08-07 02:37 G 43422110.47 43422110.61 43422110.77 0.0271 0.0138

Saturn 114173-11-03 22:32 G 43422199.26 43422199.44 43422199.62 0.0271 0.0046

Saturn 114174-01-31 18:27 G 43422288.18 43422288.27 43422288.36 0.0270 0.0232

Moon 114174-02-02 03:49 G 43422289.58 43422289.66 43422289.75 0.2670 0.2206

Earth 114174-02-02 05:15 G 43422289.64 43422289.72 43422289.79 0.2673 0.2315 *

Jupiter 114174-09-15 02:22 G 43422514.48 43422514.60 43422514.72 0.0530 0.0242

Jupiter 114174-12-13 10:46 G 43422603.88 43422603.95 43422604.03 0.0527 0.0425

Mars 114175-06-11 07:10 G 43422783.76 43422783.80 43422783.84 0.1821 0.1705

Venus 114180-06-25 19:53 G 43424625.26 43424625.33 43424625.41 0.3701 0.2647

Jupiter 114181-01-24 21:34 G 43424838.23 43424838.40 43424838.58 0.0499 0.0053

Mars 114184-10-31 16:32 G 43426214.08 43426214.19 43426214.29 0.1829 0.0777

Uranus 114185-05-25 11:44 G 43426419.91 43426419.99 43426420.09 0.0139 0.0119

Uranus 114185-08-21 18:27 G 43426508.14 43426508.27 43426508.41 0.0139 0.0094

Uranus 114185-11-18 01:10 G 43426596.40 43426596.55 43426596.71 0.0139 0.0069

Venus 114186-01-09 12:41 G 43426648.92 43426649.03 43426649.13 0.3697 0.0887

Uranus 114186-02-14 08:08 G 43426684.67 43426684.84 43426685.01 0.0139 0.0043

Uranus 114186-05-13 14:51 G 43426772.94 43426773.12 43426773.30 0.0139 0.0018

Jupiter 114186-07-04 05:58 G 43426824.67 43426824.75 43426824.84 0.0531 0.0406

Uranus 114186-08-09 21:49 G 43426861.22 43426861.41 43426861.59 0.0139 0.0008

Jupiter 114186-10-01 14:51 G 43426914.01 43426914.12 43426914.23 0.0527 0.0271

Uranus 114186-11-06 04:32 G 43426949.52 43426949.69 43426949.87 0.0139 0.0034

Uranus 114187-02-02 11:15 G 43427037.82 43427037.97 43427038.15 0.0139 0.0060

Uranus 114187-05-01 18:13 G 43427126.13 43427126.26 43427126.41 0.0139 0.0085

Uranus 114187-07-29 01:10 G 43427214.45 43427214.55 43427214.67 0.0138 0.0111

Uranus 114187-10-25 08:08 G 43427302.83 43427302.84 43427302.88 0.0138 0.0137

Saturn 114188-09-02 23:44 G 43427616.39 43427616.49 43427616.58 0.0288 0.0205

Saturn 114188-11-30 12:27 G 43427704.88 43427705.02 43427705.15 0.0289 0.0036

Saturn 114189-02-27 00:56 G 43427793.42 43427793.54 43427793.66 0.0289 0.0132

Venus 114191-07-26 05:15 G 43428672.61 43428672.72 43428672.82 0.3694 0.0839

Moon 114191-07-26 21:49 G 43428673.32 43428673.41 43428673.49 0.2656 0.1816

Earth 114191-07-26 22:03 G 43428673.34 43428673.42 43428673.50 0.2663 0.1832 *

Jupiter 114192-11-12 20:22 G 43429148.20 43429148.35 43429148.51 0.0499 0.0240

Mars 114194-03-24 01:39 G 43429644.45 43429644.57 43429644.68 0.1838 0.0207

Mars 114195-04-20 11:01 G 43430036.80 43430036.96 43430037.11 0.1710 0.0655

Venus 114197-02-07 21:34 G 43430696.33 43430696.40 43430696.48 0.3690 0.2504

Jupiter 114198-07-20 18:41 G 43431224.15 43431224.28 43431224.41 0.0528 0.0114

Venus 114198-08-24 23:01 G 43431259.32 43431259.46 43431259.61 0.3679 0.0507

Saturn 114202-12-25 23:44 G 43432842.39 43432842.49 43432842.61 0.0271 0.0213

Saturn 114203-03-24 19:39 G 43432931.14 43432931.32 43432931.49 0.0270 0.0031

Saturn 114203-06-21 15:20 G 43433020.00 43433020.14 43433020.29 0.0270 0.0155

Mars 114203-08-15 10:32 G 43433074.86 43433074.94 43433075.03 0.1846 0.1184

Moon 114204-07-29 15:20 G 43433424.03 43433424.14 43433424.25 0.2662 0.0297

Earth 114204-07-29 16:03 G 43433424.06 43433424.17 43433424.28 0.2661 0.0115 *

Jupiter 114204-09-01 19:39 G 43433458.24 43433458.32 43433458.42 0.0498 0.0419

Mars 114204-09-10 10:03 G 43433466.77 43433466.92 43433467.08 0.1702 0.0706

Jupiter 114204-11-30 23:44 G 43433548.36 43433548.49 43433548.61 0.0501 0.0350

Moon 114207-02-01 04:17 G 43434340.53 43434340.68 43434340.83 0.2670 0.0689

Earth 114207-02-01 05:44 G 43434340.59 43434340.74 43434340.89 0.2671 0.0447 *

Jupiter 114210-05-09 22:03 G 43435534.29 43435534.42 43435534.55 0.0528 0.0059

Jupiter 114216-09-18 22:17 G 43437858.27 43437858.43 43437858.60 0.0500 0.0159

Moon 114217-08-01 09:34 G 43438174.81 43438174.90 43438174.99 0.2665 0.1574

Earth 114217-08-01 09:49 G 43438174.82 43438174.91 43438175.00 0.2659 0.1573 *

Saturn 114218-01-22 00:41 G 43438348.48 43438348.53 43438348.58 0.0289 0.0264

Saturn 114218-04-20 13:25 G 43438436.94 43438437.06 43438437.19 0.0289 0.0094

Saturn 114218-07-18 02:08 G 43438525.46 43438525.59 43438525.72 0.0289 0.0075

Saturn 114218-10-14 14:37 G 43438614.04 43438614.11 43438614.19 0.0290 0.0242

Jupiter 114222-02-26 01:25 G 43439844.44 43439844.56 43439844.68 0.0529 0.0229

Jupiter 114222-05-26 09:49 G 43439933.84 43439933.91 43439933.98 0.0526 0.0436

Mars 114224-05-02 16:32 G 43440641.09 43440641.19 43440641.29 0.1829 0.0889

Pluto 114228-03-13 13:25 G 43442052.00 43442052.06 43442052.14 0.0085 0.0072

Pluto 114228-06-09 14:51 G 43442140.02 43442140.12 43442140.22 0.0085 0.0054

Jupiter 114228-07-07 20:22 G 43442168.18 43442168.35 43442168.53 0.0499 0.0043

Uranus 114228-08-27 05:58 G 43442218.68 43442218.75 43442218.81 0.0139 0.0121

Pluto 114228-09-05 16:03 G 43442228.05 43442228.17 43442228.29 0.0085 0.0036

Uranus 114228-11-23 09:34 G 43442306.81 43442306.90 43442307.00 0.0139 0.0102

Pluto 114228-12-02 17:15 G 43442316.09 43442316.22 43442316.35 0.0085 0.0018

Uranus 114229-02-19 13:10 G 43442394.95 43442395.05 43442395.17 0.0139 0.0082

Pluto 114229-02-28 18:27 G 43442404.14 43442404.27 43442404.40 0.0085 0.0001

Uranus 114229-05-18 17:01 G 43442483.09 43442483.21 43442483.34 0.0139 0.0062

Pluto 114229-05-27 19:25 G 43442492.19 43442492.31 43442492.45 0.0084 0.0018

Uranus 114229-08-14 20:51 G 43442571.24 43442571.37 43442571.51 0.0139 0.0042

Pluto 114229-08-23 20:51 G 43442580.25 43442580.37 43442580.49 0.0084 0.0035

Uranus 114229-11-11 00:41 G 43442659.39 43442659.53 43442659.67 0.0139 0.0023

Pluto 114229-11-19 21:49 G 43442668.32 43442668.41 43442668.52 0.0084 0.0052

Uranus 114230-02-07 04:17 G 43442747.55 43442747.68 43442747.82 0.0139 0.0004

Pluto 114230-02-15 23:15 G 43442756.40 43442756.47 43442756.54 0.0084 0.0070

Uranus 114230-05-06 08:08 G 43442835.70 43442835.84 43442835.97 0.0139 0.0017

Uranus 114230-08-02 11:44 G 43442923.86 43442923.99 43442924.12 0.0139 0.0036

Uranus 114230-10-29 15:20 G 43443012.02 43443012.14 43443012.27 0.0140 0.0056

Uranus 114231-01-25 18:56 G 43443100.18 43443100.29 43443100.41 0.0140 0.0076

Uranus 114231-04-23 22:32 G 43443188.35 43443188.44 43443188.55 0.0140 0.0095

Uranus 114231-07-21 02:22 G 43443276.52 43443276.60 43443276.68 0.0140 0.0114

Uranus 114231-10-17 05:58 G 43443364.71 43443364.75 43443364.79 0.0140 0.0133

Saturn 114232-05-14 00:27 G 43443574.47 43443574.52 43443574.59 0.0271 0.0255

Saturn 114232-08-10 20:08 G 43443663.17 43443663.34 43443663.52 0.0271 0.0072

Saturn 114232-11-07 15:49 G 43443752.01 43443752.16 43443752.33 0.0271 0.0114

Mars 114233-09-23 01:39 G 43444071.45 43444071.57 43444071.68 0.1838 0.0081

Jupiter 114233-12-15 04:32 G 43444154.61 43444154.69 43444154.77 0.0531 0.0407

Jupiter 114234-03-14 13:25 G 43444243.95 43444244.06 43444244.17 0.0528 0.0271

Mars 114234-10-20 11:44 G 43444463.84 43444463.99 43444464.13 0.1710 0.0837

Venus 114237-01-31 17:44 G 43445298.15 43445298.24 43445298.33 0.3700 0.2061

Moon 114237-07-28 02:22 G 43445475.51 43445475.60 43445475.68 0.2665 0.1598

Earth 114237-07-28 02:51 G 43445475.53 43445475.62 43445475.72 0.2663 0.1467 *

Jupiter 114240-04-25 19:10 G 43446478.15 43446478.30 43446478.46 0.0498 0.0230

Venus 114242-08-17 10:17 G 43447321.83 43447321.93 43447322.04 0.3696 0.0340

Mars 114243-02-13 10:32 G 43447501.85 43447501.94 43447502.04 0.1846 0.1073

Mars 114244-03-11 11:01 G 43447893.80 43447893.96 43447894.11 0.1702 0.0533

Jupiter 114245-12-31 17:15 G 43448554.09 43448554.22 43448554.35 0.0528 0.0113

Saturn 114247-09-07 15:34 G 43449169.03 43449169.15 43449169.27 0.0288 0.0140

Saturn 114247-12-05 04:17 G 43449257.54 43449257.68 43449257.81 0.0288 0.0028

Venus 114248-03-02 02:51 G 43449345.53 43449345.62 43449345.72 0.3693 0.1392

Saturn 114248-03-02 16:46 G 43449346.10 43449346.20 43449346.30 0.0289 0.0194

Venus 114249-09-15 19:10 G 43449908.24 43449908.30 43449908.37 0.3675 0.3241

Neptune 114250-03-11 15:05 G 43450085.07 43450085.13 43450085.21 0.0089 0.0082

Neptune 114250-06-07 18:13 G 43450173.16 43450173.26 43450173.37 0.0089 0.0073

Moon 114250-07-30 20:51 G 43450226.26 43450226.37 43450226.48 0.2668 0.0264

Earth 114250-07-30 20:51 G 43450226.26 43450226.37 43450226.48 0.2661 0.0246 *

Neptune 114250-09-03 21:20 G 43450261.27 43450261.39 43450261.53 0.0089 0.0064

Neptune 114250-12-01 00:27 G 43450349.39 43450349.52 43450349.68 0.0089 0.0055

Neptune 114251-02-27 03:49 G 43450437.51 43450437.66 43450437.83 0.0089 0.0045

Neptune 114251-05-26 07:10 G 43450525.64 43450525.80 43450525.97 0.0089 0.0036

Neptune 114251-08-22 10:17 G 43450613.76 43450613.93 43450614.12 0.0089 0.0027

Neptune 114251-11-18 13:39 G 43450701.90 43450702.07 43450702.26 0.0089 0.0017

Jupiter 114252-02-12 17:58 G 43450788.16 43450788.25 43450788.35 0.0498 0.0416

Neptune 114252-02-14 17:01 G 43450790.03 43450790.21 43450790.40 0.0089 0.0007

Neptune 114252-05-12 20:22 G 43450878.16 43450878.35 43450878.54 0.0089 0.0002

Jupiter 114252-05-12 21:49 G 43450878.29 43450878.41 43450878.54 0.0501 0.0351 *

Neptune 114252-08-08 23:44 G 43450966.30 43450966.49 43450966.67 0.0089 0.0012

Neptune 114252-11-05 02:51 G 43451054.44 43451054.62 43451054.81 0.0089 0.0021

Neptune 114253-02-01 05:58 G 43451142.59 43451142.75 43451142.94 0.0089 0.0031

Moon 114253-02-01 11:58 G 43451142.85 43451143.00 43451143.15 0.2679 0.0295 *

Earth 114253-02-01 12:13 G 43451142.86 43451143.01 43451143.16 0.2671 0.0222 *

Neptune 114253-04-30 09:20 G 43451230.74 43451230.89 43451231.07 0.0089 0.0041

Neptune 114253-07-27 12:41 G 43451318.89 43451319.03 43451319.20 0.0089 0.0050

Venus 114253-09-15 19:10 G 43451369.25 43451369.30 43451369.36 0.3689 0.3045

Neptune 114253-10-23 16:03 G 43451407.04 43451407.17 43451407.32 0.0089 0.0060

Neptune 114254-01-19 19:25 G 43451495.21 43451495.31 43451495.44 0.0089 0.0069

Neptune 114254-04-17 23:01 G 43451583.38 43451583.46 43451583.55 0.0089 0.0079

Neptune 114254-07-15 02:08 G 43451671.58 43451671.59 43451671.63 0.0089 0.0089

Venus 114255-04-02 00:13 G 43451932.36 43451932.51 43451932.65 0.3680 0.0773

Jupiter 114257-10-19 21:05 G 43452864.25 43452864.38 43452864.52 0.0529 0.0048

Saturn 114261-12-28 17:29 G 43454395.08 43454395.23 43454395.38 0.0271 0.0145

Saturn 114262-03-27 13:10 G 43454483.88 43454484.05 43454484.23 0.0271 0.0040

Saturn 114262-06-24 09:05 G 43454572.79 43454572.88 43454572.98 0.0270 0.0225

Earth 114263-08-02 14:37 G 43454977.04 43454977.11 43454977.19 0.2659 0.1925

Moon 114263-08-02 15:20 G 43454977.07 43454977.14 43454977.21 0.2660 0.2039 *

Mars 114263-11-01 16:32 G 43455068.09 43455068.19 43455068.28 0.1829 0.1010

Jupiter 114264-02-29 20:37 G 43455188.20 43455188.36 43455188.53 0.0500 0.0163

Uranus 114269-03-19 13:10 G 43457033.01 43457033.05 43457033.10 0.0139 0.0135

Uranus 114269-06-15 19:53 G 43457121.22 43457121.33 43457121.44 0.0139 0.0110

Jupiter 114269-08-08 00:27 G 43457174.40 43457174.52 43457174.64 0.0529 0.0220

Uranus 114269-09-12 02:37 G 43457209.47 43457209.61 43457209.76 0.0139 0.0084

Jupiter 114269-11-05 08:37 G 43457263.80 43457263.86 43457263.94 0.0526 0.0445

Uranus 114269-12-09 09:20 G 43457297.73 43457297.89 43457298.06 0.0139 0.0059

Uranus 114270-03-07 16:03 G 43457386.00 43457386.17 43457386.35 0.0139 0.0034

Uranus 114270-06-03 23:01 G 43457474.28 43457474.46 43457474.64 0.0139 0.0008

Uranus 114270-08-31 05:44 G 43457562.56 43457562.74 43457562.93 0.0139 0.0018

Uranus 114270-11-27 12:27 G 43457650.86 43457651.02 43457651.21 0.0139 0.0044

Uranus 114271-02-23 19:39 G 43457739.16 43457739.32 43457739.48 0.0139 0.0069

Uranus 114271-05-23 02:37 G 43457827.48 43457827.61 43457827.74 0.0139 0.0095

Uranus 114271-08-19 09:34 G 43457915.81 43457915.90 43457915.99 0.0138 0.0121

Mars 114273-03-24 01:39 G 43458498.45 43458498.57 43458498.69 0.1837 0.0044

Mars 114274-04-20 12:13 G 43458890.88 43458891.01 43458891.15 0.1710 0.1004

Jupiter 114275-12-18 19:39 G 43459498.14 43459498.32 43459498.49 0.0499 0.0026

Saturn 114277-01-24 16:32 G 43459901.09 43459901.19 43459901.29 0.0289 0.0200

Saturn 114277-04-23 05:15 G 43459989.59 43459989.72 43459989.86 0.0289 0.0032

Saturn 114277-07-20 17:58 G 43460078.13 43460078.25 43460078.37 0.0289 0.0136

Jupiter 114281-05-27 03:34 G 43461484.56 43461484.65 43461484.74 0.0530 0.0393

Jupiter 114281-08-24 12:27 G 43461573.91 43461574.02 43461574.13 0.0527 0.0282

Mars 114282-08-14 10:32 G 43461928.84 43461928.94 43461929.04 0.1846 0.0957

Earth 114283-07-29 07:39 G 43462277.72 43462277.82 43462277.93 0.2662 0.1110

Moon 114283-07-29 08:08 G 43462277.74 43462277.84 43462277.94 0.2668 0.1101 *

Mars 114283-09-10 11:29 G 43462320.82 43462320.98 43462321.15 0.1703 0.0360

Earth 114286-01-30 12:56 G 43463193.99 43463194.04 43463194.10 0.2670 0.2469

Moon 114286-01-30 13:53 G 43463194.02 43463194.08 43463194.13 0.2675 0.2438 *

Jupiter 114287-10-06 17:58 G 43463808.10 43463808.25 43463808.41 0.0498 0.0220

Venus 114288-02-22 22:46 G 43463947.40 43463947.45 43463947.50 0.3703 0.3270

Saturn 114291-05-17 18:13 G 43465127.14 43465127.26 43465127.39 0.0272 0.0187

Saturn 114291-08-14 13:53 G 43465215.90 43465216.08 43465216.26 0.0271 0.0004

Saturn 114291-11-11 09:49 G 43465304.78 43465304.91 43465305.04 0.0271 0.0184

Mars 114293-01-30 11:15 G 43465750.95 43465750.97 43465751.00 0.1695 0.1665

Jupiter 114293-06-12 15:49 G 43465884.03 43465884.16 43465884.29 0.0529 0.0111

Venus 114293-09-07 15:34 G 43465971.05 43465971.15 43465971.24 0.3699 0.1490

Earth 114296-07-31 01:39 G 43467028.46 43467028.57 43467028.68 0.2661 0.0598

Moon 114296-07-31 02:22 G 43467028.49 43467028.60 43467028.71 0.2659 0.0775 *

Earth 114299-02-02 18:41 G 43467945.13 43467945.28 43467945.42 0.2672 0.0891

Moon 114299-02-02 20:08 G 43467945.21 43467945.34 43467945.48 0.2673 0.1191 *

Venus 114299-03-24 08:08 G 43467994.73 43467994.84 43467994.95 0.3696 0.0248

Jupiter 114299-07-25 17:01 G 43468118.11 43468118.21 43468118.31 0.0497 0.0404

Jupiter 114299-10-23 20:37 G 43468208.24 43468208.36 43468208.48 0.0500 0.0361

Mars 114303-05-03 16:17 G 43469495.09 43469495.18 43469495.27 0.1828 0.1119

Venus 114304-10-08 00:41 G 43470018.44 43470018.53 43470018.62 0.3692 0.1939

Jupiter 114305-04-01 19:39 G 43470194.18 43470194.32 43470194.45 0.0529 0.0054

Venus 114306-04-23 20:08 G 43470581.22 43470581.34 43470581.46 0.3677 0.2023

Saturn 114306-06-14 18:56 G 43470633.22 43470633.29 43470633.37 0.0288 0.0240

Saturn 114306-09-11 07:53 G 43470721.70 43470721.83 43470721.96 0.0288 0.0071

Saturn 114306-12-08 20:22 G 43470810.23 43470810.35 43470810.48 0.0288 0.0096

Saturn 114307-03-07 08:51 G 43470898.82 43470898.87 43470898.93 0.0289 0.0261

Moon 114309-08-03 19:39 G 43471779.26 43471779.32 43471779.38 0.2652 0.2228

Earth 114309-08-03 19:39 G 43471779.26 43471779.32 43471779.37 0.2659 0.2282 *

Venus 114310-04-23 16:46 G 43472042.18 43472042.20 43472042.23 0.3688 0.3568

Jupiter 114311-08-12 18:56 G 43472518.12 43472518.29 43472518.45 0.0500 0.0163

Venus 114311-11-08 01:10 G 43472605.43 43472605.55 43472605.67 0.3682 0.2047

Uranus 114312-06-21 09:34 G 43472831.87 43472831.90 43472831.94 0.0139 0.0135

Uranus 114312-09-17 13:25 G 43472919.99 43472920.06 43472920.14 0.0139 0.0115

Mars 114312-09-23 01:25 G 43472925.45 43472925.56 43472925.68 0.1837 0.0169

Uranus 114312-12-14 17:15 G 43473008.12 43473008.22 43473008.32 0.0139 0.0095

Uranus 114313-03-12 21:05 G 43473096.26 43473096.38 43473096.49 0.0139 0.0075

Uranus 114313-06-09 00:41 G 43473184.41 43473184.53 43473184.66 0.0139 0.0056

Uranus 114313-09-05 04:32 G 43473272.55 43473272.69 43473272.82 0.0139 0.0036

Mars 114313-10-20 13:10 G 43473317.93 43473318.05 43473318.17 0.1711 0.1192

Uranus 114313-12-02 08:08 G 43473360.71 43473360.84 43473360.98 0.0139 0.0017

Uranus 114314-02-28 11:58 G 43473448.86 43473449.00 43473449.14 0.0139 0.0004

Uranus 114314-05-27 15:34 G 43473537.02 43473537.15 43473537.29 0.0139 0.0023

Uranus 114314-08-23 19:10 G 43473625.17 43473625.30 43473625.44 0.0139 0.0043

Uranus 114314-11-19 22:46 G 43473713.33 43473713.45 43473713.58 0.0139 0.0062

Uranus 114315-02-16 02:37 G 43473801.50 43473801.61 43473801.72 0.0140 0.0081

Uranus 114315-05-15 06:13 G 43473889.67 43473889.76 43473889.85 0.0140 0.0101

Uranus 114315-08-11 09:49 G 43473977.85 43473977.91 43473977.98 0.0140 0.0120

Uranus 114315-11-07 13:25 G 43474066.06 43474066.06 43474066.07 0.0140 0.0139

Earth 114316-07-27 18:27 G 43474329.24 43474329.27 43474329.31 0.2664 0.2480

Moon 114316-07-27 19:10 G 43474329.25 43474329.30 43474329.36 0.2666 0.2314 *

Jupiter 114317-01-18 23:15 G 43474504.35 43474504.47 43474504.59 0.0530 0.0213

Jupiter 114317-04-18 07:39 G 43474593.76 43474593.82 43474593.89 0.0526 0.0453

Saturn 114320-10-04 16:03 G 43475859.12 43475859.17 43475859.23 0.0271 0.0255

Saturn 114321-01-01 11:29 G 43475947.81 43475947.98 43475948.16 0.0271 0.0073

Saturn 114321-03-31 07:25 G 43476036.65 43476036.81 43476036.98 0.0271 0.0112

Mars 114322-02-13 10:32 G 43476355.84 43476355.94 43476356.05 0.1846 0.0833

Mars 114323-03-12 12:27 G 43476747.85 43476748.02 43476748.18 0.1703 0.0176

Jupiter 114323-05-31 17:44 G 43476828.07 43476828.24 43476828.42 0.0499 0.0026

Jupiter 114328-11-07 02:22 G 43478814.52 43478814.60 43478814.70 0.0530 0.0388

Jupiter 114329-02-04 11:15 G 43478903.86 43478903.97 43478904.08 0.0527 0.0288

Earth 114329-07-30 12:41 G 43479079.92 43479080.03 43479080.13 0.2662 0.0749

Moon 114329-07-30 13:10 G 43479079.94 43479080.05 43479080.16 0.2658 0.0679 *

Neptune 114330-07-16 00:41 G 43479430.51 43479430.53 43479430.57 0.0088 0.0085

Neptune 114330-10-12 02:08 G 43479518.54 43479518.59 43479518.66 0.0088 0.0078

Neptune 114331-01-08 03:49 G 43479606.59 43479606.66 43479606.75 0.0088 0.0071

Neptune 114331-04-06 05:15 G 43479694.63 43479694.72 43479694.82 0.0088 0.0064

Neptune 114331-07-03 06:56 G 43479782.68 43479782.79 43479782.89 0.0088 0.0057

Neptune 114331-09-29 08:22 G 43479870.74 43479870.85 43479870.96 0.0088 0.0051

Neptune 114331-12-26 09:34 G 43479958.79 43479958.90 43479959.03 0.0088 0.0044

Earth 114332-02-01 19:25 G 43479996.20 43479996.31 43479996.42 0.2670 0.1821

Moon 114332-02-01 20:51 G 43479996.24 43479996.37 43479996.49 0.2667 0.1550 *

Neptune 114332-03-23 11:15 G 43480046.85 43480046.97 43480047.10 0.0088 0.0037

Neptune 114332-06-19 12:41 G 43480134.90 43480135.03 43480135.16 0.0088 0.0030

Mars 114332-08-01 11:44 G 43480177.92 43480177.99 43480178.07 0.1695 0.1511

Neptune 114332-09-15 14:08 G 43480222.96 43480223.09 43480223.23 0.0088 0.0024

Neptune 114332-12-12 15:34 G 43480311.02 43480311.15 43480311.29 0.0088 0.0017

Neptune 114333-03-10 17:15 G 43480399.08 43480399.22 43480399.35 0.0088 0.0010

Neptune 114333-06-06 18:41 G 43480487.14 43480487.28 43480487.41 0.0088 0.0004

Neptune 114333-09-02 20:08 G 43480575.20 43480575.34 43480575.47 0.0088 0.0004

Neptune 114333-11-29 21:20 G 43480663.26 43480663.39 43480663.53 0.0088 0.0011

Neptune 114334-02-25 23:01 G 43480751.32 43480751.46 43480751.59 0.0088 0.0017

Neptune 114334-05-25 00:13 G 43480839.38 43480839.51 43480839.65 0.0088 0.0024

Neptune 114334-08-21 01:39 G 43480927.45 43480927.57 43480927.70 0.0088 0.0030

Neptune 114334-11-17 03:05 G 43481015.51 43481015.63 43481015.76 0.0088 0.0037

Neptune 114335-02-13 04:17 G 43481103.57 43481103.68 43481103.81 0.0088 0.0044

Jupiter 114335-03-19 16:46 G 43481138.05 43481138.20 43481138.36 0.0499 0.0209

Neptune 114335-05-12 05:58 G 43481191.64 43481191.75 43481191.86 0.0088 0.0050

Neptune 114335-08-08 07:10 G 43481279.71 43481279.80 43481279.91 0.0088 0.0057

Neptune 114335-11-04 08:37 G 43481367.77 43481367.86 43481367.96 0.0088 0.0063

Saturn 114336-01-29 08:51 G 43481453.75 43481453.87 43481454.00 0.0288 0.0130

Neptune 114336-01-31 09:49 G 43481455.84 43481455.91 43481456.00 0.0088 0.0070

Saturn 114336-04-26 21:34 G 43481542.27 43481542.40 43481542.54 0.0289 0.0039

Neptune 114336-04-28 11:29 G 43481543.92 43481543.98 43481544.05 0.0088 0.0076

Saturn 114336-07-24 10:17 G 43481630.83 43481630.93 43481631.02 0.0289 0.0205

Neptune 114336-07-25 12:41 G 43481632.00 43481632.03 43481632.08 0.0088 0.0083

Jupiter 114340-11-23 14:51 G 43483213.99 43483214.12 43483214.25 0.0528 0.0122

Moon 114342-08-02 06:12 G 43483830.65 43483830.76 43483830.86 0.2654 0.0931

Earth 114342-08-02 06:27 G 43483830.67 43483830.77 43483830.88 0.2660 0.0960 *

Mars 114342-11-01 16:17 G 43483922.10 43483922.18 43483922.27 0.1828 0.1235

Venus 114344-09-29 20:36 G 43484620.28 43484620.36 43484620.43 0.3702 0.2681

Moon 114345-02-04 00:27 G 43484747.39 43484747.52 43484747.66 0.2666 0.1430

Earth 114345-02-04 01:10 G 43484747.42 43484747.55 43484747.67 0.2672 0.1563 *

Jupiter 114347-01-05 15:34 G 43485448.05 43485448.15 43485448.26 0.0497 0.0397

Jupiter 114347-04-05 19:10 G 43485538.18 43485538.30 43485538.42 0.0500 0.0368

Venus 114350-04-15 13:10 G 43486643.95 43486644.05 43486644.16 0.3698 0.0924

Saturn 114350-05-21 12:27 G 43486679.86 43486680.02 43486680.18 0.0272 0.0115

Saturn 114350-08-18 08:08 G 43486768.67 43486768.84 43486769.02 0.0271 0.0071

Saturn 114350-11-15 04:03 G 43486857.62 43486857.67 43486857.73 0.0271 0.0258

Mars 114352-03-24 01:39 G 43487352.45 43487352.57 43487352.68 0.1837 0.0277

Jupiter 114352-09-11 17:44 G 43487524.11 43487524.24 43487524.37 0.0529 0.0057

Uranus 114353-04-09 20:36 G 43487734.30 43487734.36 43487734.44 0.0139 0.0127

Mars 114353-04-20 13:53 G 43487744.99 43487745.08 43487745.18 0.1711 0.1382

Uranus 114353-07-07 03:20 G 43487822.53 43487822.64 43487822.77 0.0139 0.0102

Uranus 114353-10-03 10:03 G 43487910.78 43487910.92 43487911.08 0.0139 0.0077

Uranus 114353-12-30 17:00 G 43487999.04 43487999.21 43487999.37 0.0139 0.0051

Uranus 114354-03-28 23:44 G 43488087.31 43488087.49 43488087.67 0.0139 0.0026

Uranus 114354-06-25 06:27 G 43488175.59 43488175.77 43488175.96 0.0139 0.0003

Uranus 114354-09-21 13:24 G 43488263.88 43488264.06 43488264.24 0.0139 0.0025

Uranus 114354-12-18 20:22 G 43488352.18 43488352.35 43488352.52 0.0139 0.0051

Uranus 114355-03-17 03:20 G 43488440.49 43488440.64 43488440.79 0.0139 0.0077

Uranus 114355-06-13 10:17 G 43488528.81 43488528.93 43488529.05 0.0139 0.0103

Moon 114355-08-04 23:44 G 43488581.45 43488581.49 43488581.53 0.2661 0.2478

Earth 114355-08-05 00:27 G 43488581.51 43488581.52 43488581.53 0.2659 0.2631 *

Uranus 114355-09-09 17:15 G 43488617.16 43488617.22 43488617.28 0.0139 0.0129

Venus 114355-10-30 05:44 G 43488667.64 43488667.74 43488667.85 0.3695 0.0817

Jupiter 114359-01-22 17:29 G 43489848.07 43489848.23 43489848.40 0.0499 0.0172

Venus 114361-05-14 22:17 G 43490691.35 43490691.43 43490691.50 0.3691 0.2466

Mars 114361-08-14 10:32 G 43490782.83 43490782.94 43490783.05 0.1845 0.0722

Earth 114362-07-28 23:29 G 43491131.41 43491131.48 43491131.54 0.2664 0.2111

Moon 114362-07-28 23:44 G 43491131.42 43491131.49 43491131.55 0.2657 0.2107 *

Mars 114362-09-10 13:10 G 43491174.88 43491175.05 43491175.21 0.1703 0.0039

Venus 114362-11-28 21:05 G 43491254.24 43491254.38 43491254.52 0.3678 0.0800

Jupiter 114364-06-30 21:20 G 43491834.27 43491834.39 43491834.51 0.0530 0.0222

Jupiter 114364-09-28 05:58 G 43491923.68 43491923.75 43491923.81 0.0527 0.0446

Saturn 114365-06-17 11:44 G 43492185.88 43492185.99 43492186.11 0.0288 0.0165

Saturn 114365-09-14 00:27 G 43492274.39 43492274.52 43492274.66 0.0288 0.0008

Saturn 114365-12-11 12:56 G 43492362.94 43492363.04 43492363.16 0.0288 0.0169

Venus 114368-06-14 02:22 G 43493278.55 43493278.60 43493278.66 0.3683 0.3363

Jupiter 114370-11-10 15:48 G 43494157.98 43494158.16 43494158.33 0.0499 0.0026

Mars 114371-01-04 19:24 G 43494213.27 43494213.31 43494213.35 0.1854 0.1738

Mars 114372-01-31 12:41 G 43494604.93 43494605.03 43494605.13 0.1695 0.1324

Moon 114375-07-31 16:46 G 43495882.09 43495882.20 43495882.31 0.2659 0.0470

Earth 114375-07-31 17:29 G 43495882.12 43495882.23 43495882.34 0.2662 0.0386 *

Jupiter 114376-04-19 01:10 G 43496144.46 43496144.55 43496144.64 0.0531 0.0386

Jupiter 114376-07-17 10:03 G 43496233.81 43496233.92 43496234.03 0.0527 0.0292

Pluto 114377-08-25 00:56 G 43496637.51 43496637.54 43496637.59 0.0059 0.0058

Pluto 114377-11-21 02:08 G 43496725.49 43496725.59 43496725.72 0.0059 0.0049

Moon 114378-02-02 00:27 G 43496798.39 43496798.52 43496798.66 0.2667 0.1263

Earth 114378-02-02 01:53 G 43496798.44 43496798.58 43496798.71 0.2671 0.1168 *

Pluto 114378-02-17 03:34 G 43496813.52 43496813.65 43496813.81 0.0060 0.0040

Pluto 114378-05-16 04:46 G 43496901.55 43496901.70 43496901.89 0.0060 0.0031

Pluto 114378-08-12 06:12 G 43496989.59 43496989.76 43496989.96 0.0060 0.0022

Pluto 114378-11-08 07:53 G 43497077.64 43497077.83 43497078.03 0.0060 0.0012

Pluto 114379-02-04 09:20 G 43497165.70 43497165.89 43497166.09 0.0060 0.0003

Pluto 114379-05-03 10:46 G 43497253.75 43497253.95 43497254.15 0.0060 0.0007

Pluto 114379-07-30 11:58 G 43497341.82 43497342.00 43497342.20 0.0060 0.0016

Saturn 114379-10-08 10:46 G 43497411.82 43497411.95 43497412.08 0.0271 0.0178

Pluto 114379-10-26 13:39 G 43497429.89 43497430.07 43497430.25 0.0060 0.0025

Saturn 114380-01-05 06:27 G 43497500.59 43497500.77 43497500.95 0.0271 0.0006

Pluto 114380-01-22 14:36 G 43497517.97 43497518.11 43497518.29 0.0060 0.0035

Saturn 114380-04-03 02:08 G 43497589.47 43497589.59 43497589.72 0.0271 0.0192

Pluto 114380-04-19 16:03 G 43497606.05 43497606.17 43497606.32 0.0060 0.0044

Pluto 114380-07-16 17:15 G 43497694.16 43497694.22 43497694.33 0.0060 0.0054

Mars 114382-05-02 16:17 G 43498349.11 43498349.18 43498349.26 0.1828 0.1350

Jupiter 114382-08-29 14:51 G 43498467.96 43498468.12 43498468.28 0.0498 0.0210

Jupiter 114388-05-05 13:24 G 43500543.93 43500544.06 43500544.19 0.0528 0.0125

Moon 114388-08-02 10:46 G 43500632.86 43500632.95 43500633.05 0.2665 0.1201

Earth 114388-08-02 11:15 G 43500632.88 43500632.97 43500633.07 0.2660 0.1319 *

Moon 114391-02-05 05:58 G 43501549.65 43501549.75 43501549.86 0.2675 0.1904

Earth 114391-02-05 07:24 G 43501549.73 43501549.81 43501549.90 0.2673 0.2239 *

Mars 114391-09-23 01:39 G 43501779.46 43501779.57 43501779.68 0.1837 0.0394

Mars 114392-10-19 14:22 G 43502172.04 43502172.10 43502172.17 0.1711 0.1546

Jupiter 114394-06-17 14:08 G 43502777.98 43502778.09 43502778.19 0.0498 0.0392

Jupiter 114394-09-15 17:44 G 43502868.12 43502868.24 43502868.35 0.0501 0.0375

Saturn 114394-11-04 12:56 G 43502917.96 43502918.04 43502918.13 0.0288 0.0223

Saturn 114395-02-01 01:39 G 43503006.44 43503006.57 43503006.71 0.0288 0.0056

Saturn 114395-04-30 14:22 G 43503094.98 43503095.10 43503095.23 0.0289 0.0112

Saturn 114395-07-28 02:51 G 43503183.59 43503183.62 43503183.66 0.0289 0.0278

Uranus 114396-07-11 17:15 G 43503533.17 43503533.22 43503533.28 0.0139 0.0128

Uranus 114396-10-07 21:05 G 43503621.30 43503621.38 43503621.47 0.0139 0.0108

Uranus 114397-01-04 00:56 G 43503709.43 43503709.54 43503709.65 0.0139 0.0088

Uranus 114397-04-02 04:46 G 43503797.58 43503797.70 43503797.82 0.0139 0.0068

Uranus 114397-06-29 08:22 G 43503885.72 43503885.85 43503885.98 0.0139 0.0049

Uranus 114397-09-25 12:12 G 43503973.87 43503974.01 43503974.15 0.0139 0.0029

Uranus 114397-12-22 15:48 G 43504062.03 43504062.16 43504062.30 0.0139 0.0010

Uranus 114398-03-20 19:39 G 43504150.18 43504150.32 43504150.46 0.0139 0.0011

Uranus 114398-06-16 23:15 G 43504238.34 43504238.47 43504238.61 0.0139 0.0030

Uranus 114398-09-13 03:05 G 43504326.50 43504326.63 43504326.75 0.0139 0.0050

Uranus 114398-12-10 06:27 G 43504414.66 43504414.77 43504414.90 0.0139 0.0069

Uranus 114399-03-08 10:03 G 43504502.82 43504502.92 43504503.03 0.0139 0.0089

Uranus 114399-06-04 13:53 G 43504591.00 43504591.08 43504591.17 0.0140 0.0108

Uranus 114399-08-31 17:29 G 43504679.18 43504679.23 43504679.29 0.0140 0.0127

Jupiter 114400-02-22 16:46 G 43504854.07 43504854.20 43504854.33 0.0529 0.0045

Mars 114401-02-12 10:32 G 43505209.83 43505209.94 43505210.05 0.1845 0.0604

Venus 114401-05-06 18:12 G 43505293.17 43505293.26 43505293.35 0.3701 0.2111

Mars 114402-03-11 13:53 G 43505601.91 43505602.08 43505602.24 0.1703 0.0179

Jupiter 114406-07-04 16:03 G 43507178.00 43507178.17 43507178.33 0.0499 0.0177

Venus 114406-11-20 11:00 G 43507316.85 43507316.96 43507317.06 0.3697 0.0364

Moon 114408-07-29 03:34 G 43507933.58 43507933.65 43507933.73 0.2665 0.1939

Earth 114408-07-29 04:17 G 43507933.60 43507933.68 43507933.76 0.2663 0.1745 *

Saturn 114409-02-24 11:15 G 43508143.88 43508143.97 43508144.08 0.0272 0.0222

Saturn 114409-05-24 06:56 G 43508232.62 43508232.79 43508232.97 0.0272 0.0038

Saturn 114409-08-21 02:51 G 43508321.47 43508321.62 43508321.77 0.0271 0.0149

Mars 114410-07-05 19:24 G 43508640.25 43508640.31 43508640.36 0.1854 0.1620

Mars 114411-08-01 13:24 G 43509031.94 43509032.06 43509032.18 0.1695 0.1153

Jupiter 114411-12-11 19:39 G 43509164.20 43509164.32 43509164.44 0.0530 0.0230

Jupiter 114412-03-10 04:03 G 43509253.60 43509253.67 43509253.74 0.0527 0.0439

Venus 114412-06-05 03:34 G 43509340.55 43509340.65 43509340.74 0.3693 0.1351

Venus 114413-12-19 17:29 G 43509903.19 43509903.23 43509903.27 0.3674 0.3501

Neptune 114414-09-10 09:34 G 43510167.89 43510167.90 43510167.93 0.0089 0.0089

Neptune 114414-12-07 12:41 G 43510255.96 43510256.03 43510256.12 0.0089 0.0080

Neptune 114415-03-05 15:48 G 43510344.06 43510344.16 43510344.29 0.0089 0.0071

Neptune 114415-06-01 18:56 G 43510432.18 43510432.29 43510432.44 0.0089 0.0062

Neptune 114415-08-28 22:17 G 43510520.29 43510520.43 43510520.59 0.0089 0.0052

Neptune 114415-11-25 01:39 G 43510608.41   43510608.57   43510608.74 0.0089 0.0043

Neptune 114416-02-21 04:46 G 43510696.54   43510696.70   43510696.88 0.0089 0.0034

Neptune 114416-05-19 08:08 G 43510784.67   43510784.84   43510785.02 0.0089 0.0024

Neptune 114416-08-15 11:29 G 43510872.80   43510872.98   43510873.16 0.0089 0.0015

Neptune 114416-11-11 14:51 G 43510960.93   43510961.12   43510961.30 0.0089 0.0005

Neptune 114417-02-07 17:58 G 43511049.07   43511049.25   43511049.44 0.0089 0.0004

Neptune 114417-05-06 21:05 G 43511137.21   43511137.38   43511137.57 0.0089 0.0015

Neptune 114417-08-03 00:27 G 43511225.35   43511225.52   43511225.71 0.0089 0.0024

Neptune 114417-10-30 03:34 G 43511313.49   43511313.65   43511313.84 0.0089 0.0034

Venus   114417-12-19 19:53 G 43511364.27   43511364.33   43511364.39 0.3690 0.3000

Neptune 114418-01-26 07:10 G 43511401.64   43511401.80   43511401.97 0.0089 0.0042

Jupiter 114418-04-22 14:36 G 43511487.93   43511488.11   43511488.28 0.0499 0.0021

Neptune 114418-04-24 10:17 G 43511489.79   43511489.93   43511490.10 0.0089 0.0052

Neptune 114418-07-21 13:53 G 43511577.95   43511578.08   43511578.22 0.0089 0.0061

Neptune 114418-10-17 17:00 G 43511666.11   43511666.21   43511666.33 0.0089 0.0071

Neptune 114419-01-13 20:36 G 43511754.29   43511754.36   43511754.44 0.0089 0.0081

Venus   114419-07-05 22:17 G 43511927.28   43511927.43   43511927.57 0.3679 0.0474

Moon   114421-07-31 22:03 G 43512684.31   43512684.42   43512684.53 0.2668 0.0004

Earth   114421-07-31 22:17 G 43512684.32   43512684.43   43512684.54 0.2661 0.0026 *

Mars   114421-10-31 16:17 G 43512776.12   43512776.18   43512776.25 0.1828 0.1467

Jupiter 114423-09-29 23:00 G 43513474.37   43513474.46   43513474.55 0.0531 0.0398

Jupiter 114423-12-28 07:53 G 43513563.72   43513563.83   43513563.94 0.0528 0.0281

Moon   114424-02-03 07:24 G 43513600.67   43513600.81   43513600.96 0.2677 0.0583

Earth   114424-02-03 08:22 G 43513600.70   43513600.85   43513601.00 0.2671 0.0496 *

Saturn   114424-03-23 16:17 G 43513650.12   43513650.18   43513650.25 0.0287 0.0253

Saturn   114424-06-20 05:15 G 43513738.59   43513738.72   43513738.85 0.0288 0.0085

Saturn   114424-09-16 17:44 G 43513827.11   43513827.24   43513827.37 0.0288 0.0082

Saturn   114424-12-14 06:12 G 43513915.70   43513915.76   43513915.83 0.0288 0.0247

Jupiter 114430-02-08 12:41 G 43515797.87   43515798.03   43515798.19 0.0498 0.0214

Mars   114431-03-24 01:24 G 43516206.45   43516206.56   43516206.67 0.1837 0.0502

Earth 114434-08-03 16:17 G 43517435.09 43517435.18 43517435.26 0.2660 0.1671

Moon 114434-08-03 16:46 G 43517435.12 43517435.20 43517435.29 0.2663 0.1716 *

Jupiter 114435-10-16 11:58 G 43517873.87 43517874.00 43517874.13 0.0529 0.0124

Uranus 114437-04-30 04:03 G 43518435.60 43518435.67 43518435.78 0.0139 0.0120

Uranus 114437-07-27 10:46 G 43518523.84 43518523.95 43518524.10 0.0139 0.0095

Uranus 114437-10-23 17:58 G 43518612.09 43518612.25 43518612.40 0.0139 0.0068

Uranus 114438-01-20 00:27 G 43518700.36 43518700.52 43518700.70 0.0139 0.0043

Uranus 114438-04-18 07:24 G 43518788.63 43518788.81 43518788.99 0.0139 0.0018

Uranus 114438-07-15 14:22 G 43518876.92 43518877.10 43518877.28 0.0139 0.0008

Saturn 114438-10-11 05:58 G 43518964.59 43518964.75 43518964.92 0.0271 0.0096

Uranus 114438-10-11 21:05 G 43518965.21 43518965.38 43518965.56 0.0139 0.0034

Saturn 114439-01-08 01:39 G 43519053.41 43519053.57 43519053.75 0.0271 0.0089

Uranus 114439-01-08 04:03 G 43519053.51 43519053.67 43519053.84 0.0139 0.0060 *

Uranus 114439-04-06 10:46 G 43519141.82 43519141.95 43519142.10 0.0139 0.0086

Uranus 114439-07-03 17:44 G 43519230.14 43519230.24 43519230.36 0.0139 0.0112

Uranus 114439-09-30 00:56 G 43519318.53 43519318.54 43519318.56 0.0138 0.0138

Mars 114440-08-13 10:32 G 43519636.83 43519636.94 43519637.05 0.1845 0.0482

Mars 114441-09-09 14:36 G 43520028.94 43520029.11 43520029.27 0.1703 0.0355

Jupiter 114441-11-27 11:44 G 43520107.89 43520107.99 43520108.10 0.0497 0.0396

Jupiter 114442-02-25 15:20 G 43520198.02 43520198.14 43520198.26 0.0500 0.0369

Jupiter 114447-08-04 15:20 G 43522184.01 43522184.14 43522184.27 0.0529 0.0045

Mars 114450-01-03 19:24 G 43523067.24 43523067.31 43523067.38 0.1853 0.1500

Mars 114451-01-30 13:53 G 43523458.95 43523459.08 43523459.22 0.1696 0.0990

Venus 114452-05-27 23:15 G 43523942.42 43523942.47 43523942.51 0.3703 0.3318

Saturn 114453-11-07 06:12 G 43524470.65 43524470.76 43524470.88 0.0288 0.0143

Jupiter 114453-12-14 14:08 G 43524507.92 43524508.09 43524508.25 0.0500 0.0178

Saturn 114454-02-03 18:56 G 43524559.16 43524559.29 43524559.43 0.0288 0.0026

Saturn 114454-05-03 07:39 G 43524647.72 43524647.82 43524647.92 0.0289 0.0191

Earth 114454-07-30 09:05 G 43524735.79 43524735.88 43524735.98 0.2663 0.1382

Moon 114454-07-30 09:20 G 43524735.80 43524735.89 43524735.99 0.2669 0.1367 *

Venus 114457-12-11 16:03 G 43525966.07 43525966.17 43525966.27 0.3700 0.1534

Jupiter 114459-05-23 18:27 G 43526494.15 43526494.27 43526494.40 0.0530 0.0219

Jupiter 114459-08-21 03:05 G 43526583.56 43526583.63 43526583.70 0.0527 0.0448

Mars 114461-05-01 16:17 G 43527203.12 43527203.18 43527203.24 0.1828 0.1575

Venus 114463-06-27 08:36 G 43527989.76 43527989.86 43527989.97 0.3696 0.0245

Jupiter 114465-10-02 12:41 G 43528817.86 43528818.03 43528818.21 0.0499 0.0015

Earth 114467-08-02 03:05 G 43529486.52 43529486.63 43529486.74 0.2661 0.0332

Moon 114467-08-02 03:48 G 43529486.55 43529486.66 43529486.77 0.2660 0.0489 *

Saturn 114468-02-28 06:41 G 43529696.63 43529696.78 43529696.93 0.0272 0.0139

Saturn 114468-05-27 02:22 G 43529785.43 43529785.60 43529785.78 0.0272 0.0047

Saturn 114468-08-23 22:32 G 43529874.35 43529874.44 43529874.53 0.0271 0.0234

Venus 114469-01-10 01:10 G 43530013.46 43530013.55 43530013.64 0.3693 0.1894

Earth 114470-02-03 14:36 G 43530402.96 43530403.11 43530403.27 0.2671 0.0179

Moon 114470-02-03 16:17 G 43530403.03 43530403.18 43530403.33 0.2671 0.0356 *

Venus 114470-07-26 18:27 G 43530576.16 43530576.27 43530576.38 0.3676 0.2284

Mars 114470-09-22 01:39 G 43530633.46 43530633.57 43530633.67 0.1836 0.0625

Jupiter 114471-03-11 21:05 G 43530804.29 43530804.38 43530804.46 0.0531 0.0408

Jupiter 114471-06-09 05:58 G 43530893.64 43530893.75 43530893.86 0.0528 0.0272

Pluto 114473-11-12 05:15 G 43531780.66 43531780.72 43531780.80 0.0085 0.0072

Pluto 114474-02-08 06:27 G 43531868.68 43531868.77 43531868.88 0.0085 0.0054

Pluto 114474-05-07 07:53 G 43531956.71 43531956.83 43531956.95 0.0085 0.0036

Venus 114474-07-26 17:29 G 43532037.21 43532037.23 43532037.26 0.3689 0.3537

Pluto 114474-08-03 09:05 G 43532044.75 43532044.88 43532045.01 0.0085 0.0018

Pluto 114474-10-30 10:17 G 43532132.80 43532132.93 43532133.06 0.0085 0.0001

Pluto 114475-01-26 11:29 G 43532220.85 43532220.98 43532221.11 0.0084 0.0017

Pluto 114475-04-24 12:27 G 43532308.91 43532309.02 43532309.15 0.0084 0.0036

Pluto 114475-07-21 13:53 G 43532396.98 43532397.08 43532397.18 0.0084 0.0052

Pluto 114475-10-17 14:51 G 43532485.06 43532485.12 43532485.20 0.0084 0.0070

Venus 114476-02-09 23:29 G 43532600.35 43532600.48 43532600.60 0.3681 0.1757

Jupiter 114477-07-21 11:15 G 43533127.81 43533127.97 43533128.13 0.0498 0.0206

Mars 114480-02-12 10:32 G 43534063.83 43534063.94 43534064.05 0.1845 0.0372

Uranus 114480-08-01 00:56 G 43534234.48 43534234.54 43534234.61 0.0139 0.0120

Moon 114480-08-03 21:05 G 43534237.31 43534237.38 43534237.46 0.2653 0.2013

Earth 114480-08-03 21:05 G 43534237.31 43534237.38 43534237.45 0.2660 0.2023 *

Uranus 114480-10-28 04:46 G 43534322.61 43534322.70 43534322.80 0.0139 0.0101

Uranus 114481-01-24 08:36 G 43534410.75 43534410.86 43534410.98 0.0139 0.0081

Mars 114481-03-10 15:20 G 43534455.98 43534456.14 43534456.30 0.1704 0.0532

Uranus 114481-04-22 12:27 G 43534498.89 43534499.02 43534499.14 0.0139 0.0061

Uranus 114481-07-19 16:03 G 43534587.04 43534587.17 43534587.31 0.0139 0.0042

Uranus 114481-10-15 19:53 G 43534675.19 43534675.33 43534675.47 0.0139 0.0022

Uranus 114482-01-11 23:44 G 43534763.35 43534763.49 43534763.62 0.0139 0.0004

Uranus 114482-04-10 03:20 G 43534851.50 43534851.64 43534851.78 0.0139 0.0018

Uranus 114482-07-07 06:56 G 43534939.66 43534939.79 43534939.93 0.0139 0.0037

Uranus 114482-10-03 10:46 G 43535027.82 43535027.95 43535028.07 0.0139 0.0057

Uranus 114482-12-30 14:08 G 43535115.99 43535116.09 43535116.21 0.0139 0.0077

Saturn 114483-03-27 09:48 G 43535202.81 43535202.91 43535203.03 0.0287 0.0169

Jupiter 114483-03-28 09:48 G 43535203.78 43535203.91 43535204.03 0.0529 0.0110

Uranus 114483-03-28 17:58 G 43535204.15 43535204.25 43535204.35 0.0139 0.0095

Saturn 114483-06-23 22:46 G 43535291.31 43535291.45 43535291.58 0.0288 0.0008

Uranus 114483-06-24 21:34 G 43535292.33 43535292.40 43535292.48 0.0139 0.0115

Saturn 114483-09-20 11:15 G 43535379.86 43535379.97 43535380.08 0.0288 0.0165

Uranus 114483-09-21 01:10 G 43535380.52 43535380.55 43535380.59 0.0140 0.0134

Jupiter 114489-05-09 09:34 G 43537437.80 43537437.90 43537438.00 0.0497 0.0401

Mars 114489-07-04 19:24 G 43537494.23 43537494.31 43537494.38 0.1853 0.1385

Jupiter 114489-08-07 12:56 G 43537527.92 43537528.04 43537528.16 0.0500 0.0361

Mars 114490-07-31 14:51 G 43537885.97 43537886.12 43537886.26 0.1696 0.0804

Jupiter 114495-01-14 13:39 G 43539513.93 43539514.07 43539514.20 0.0530 0.0052

Neptune 114495-04-11 23:58 G 43539601.46 43539601.50 43539601.54 0.0088 0.0084

Neptune 114495-07-09 01:10 G 43539689.49 43539689.55 43539689.63 0.0088 0.0077

Neptune 114495-10-05 02:36 G 43539777.54 43539777.61 43539777.71 0.0088 0.0070

Neptune 114496-01-01 04:03 G 43539865.59 43539865.67 43539865.78 0.0088 0.0064

Neptune 114496-03-29 05:44 G 43539953.64 43539953.74 43539953.86 0.0088 0.0056

Neptune 114496-06-25 07:10 G 43540041.70 43540041.80 43540041.93 0.0088 0.0050

Neptune 114496-09-21 08:51 G 43540129.75 43540129.87 43540129.99 0.0088 0.0042

Neptune 114496-12-18 10:17 G 43540217.81 43540217.93 43540218.06 0.0088 0.0036

Neptune 114497-03-16 11:44 G 43540305.87 43540305.99 43540306.13 0.0088 0.0029

Neptune 114497-06-12 13:10 G 43540393.92 43540394.05 43540394.19 0.0088 0.0022

Saturn 114497-07-17 06:27 G 43540428.65 43540428.77 43540428.90 0.0272 0.0191

Neptune 114497-09-08 14:51 G 43540481.98 43540482.12 43540482.25 0.0088 0.0015

Saturn 114497-10-14 02:08 G 43540517.41 43540517.59 43540517.77 0.0271 0.0009

Neptune 114497-12-05 16:17 G 43540570.04 43540570.18 43540570.32 0.0088 0.0008

Saturn 114498-01-10 21:48 G 43540606.28 43540606.41 43540606.55 0.0271 0.0179

Neptune 114498-03-03 17:44 G 43540658.10 43540658.24 43540658.38 0.0088 0.0002

Neptune 114498-05-30 19:10 G 43540746.16 43540746.30 43540746.44 0.0088 0.0005

Neptune 114498-08-26 20:36 G 43540834.22 43540834.36 43540834.50 0.0088 0.0012

Neptune 114498-11-22 21:48 G 43540922.28 43540922.41 43540922.55 0.0088 0.0019

Neptune 114499-02-18 23:29 G 43541010.35 43541010.48 43541010.61 0.0088 0.0025

Neptune 114499-05-18 00:41 G 43541098.41 43541098.53 43541098.66 0.0088 0.0032

Neptune 114499-08-14 02:08 G 43541186.47 43541186.59 43541186.72 0.0088 0.0039

Neptune 114499-11-10 03:34 G 43541274.54 43541274.65 43541274.77 0.0088 0.0045

Neptune 114500-02-06 04:46 G 43541362.60 43541362.70 43541362.82 0.0088 0.0052

Neptune 114500-05-05 06:27 G 43541450.67 43541450.77 43541450.87 0.0088 0.0058

Earth 114500-07-31 13:53 G 43541537.98 43541538.08 43541538.19 0.2663 0.1021

Moon 114500-07-31 14:22 G 43541538.00 43541538.10 43541538.21 0.2658 0.0899 *

Neptune 114500-08-01 07:39 G 43541538.74 43541538.82 43541538.92 0.0088 0.0065

Neptune 114500-10-28 09:20 G 43541626.81 43541626.89 43541626.97 0.0088 0.0071

Mars 114500-10-31 16:17 G 43541630.14 43541630.18 43541630.22 0.1828 0.1699

Neptune 114501-01-24 10:17 G 43541714.88 43541714.93 43541715.01 0.0088 0.0078

Neptune 114501-04-22 11:58 G 43541802.97 43541803.00 43541803.04 0.0088 0.0084

Jupiter 114501-05-27 11:29 G 43541837.82 43541837.98 43541838.15 0.0500 0.0169

Earth 114503-02-02 15:34 G 43542454.10 43542454.15 43542454.20 0.2670 0.2504

Moon 114503-02-02 16:46 G 43542454.12 43542454.20 43542454.29 0.2666 0.2213 *

Jupiter 114506-11-03 17:00 G 43543824.09 43543824.21 43543824.33 0.0530 0.0221

Jupiter 114507-02-01 01:24 G 43543913.49 43543913.56 43543913.63 0.0527 0.0446

Venus 114509-01-02 21:05 G 43544615.31 43544615.38 43544615.45 0.3702 0.2730

Mars 114510-03-24 01:39 G 43545060.46 43545060.57 43545060.67 0.1836 0.0742

Saturn 114512-08-14 11:00 G 43545934.88 43545934.96 43545935.05 0.0288 0.0226

Saturn 114512-11-10 23:58 G 43546023.37 43546023.50 43546023.63 0.0288 0.0057

Saturn 114513-02-07 12:41 G 43546111.90 43546112.03 43546112.15 0.0289 0.0110

Jupiter 114513-03-15 10:32 G 43546147.76 43546147.94 43546148.11 0.0499 0.0023

Saturn 114513-05-07 00:56 G 43546200.51 43546200.54 43546200.58 0.0289 0.0275

Moon 114513-08-03 07:39 G 43546288.71 43546288.82 43546288.93 0.2655 0.0608

Earth 114513-08-03 07:53 G 43546288.73 43546288.83 43546288.94 0.2661 0.0706 *

Venus 114514-07-19 13:53 G 43546638.97 43546639.08 43546639.18 0.3699 0.0966

Moon 114516-02-05 20:51 G 43547205.22 43547205.37 43547205.52 0.2665 0.0672

Earth 114516-02-05 21:05 G 43547205.24 43547205.38 43547205.53 0.2672 0.0834 *

Jupiter 114518-08-22 19:53 G 43548134.25 43548134.33 43548134.42 0.0531 0.0398

Jupiter 114518-11-20 05:00 G 43548223.60 43548223.71 43548223.82 0.0527 0.0280

Mars 114519-08-14 10:32 G 43548490.82 43548490.94 43548491.05 0.1845 0.0256

Venus 114520-02-02 06:27 G 43548662.67 43548662.77 43548662.87 0.3695 0.0765

Mars 114520-09-09 16:03 G 43548883.02 43548883.17 43548883.32 0.1704 0.0710

Uranus 114521-02-22 04:46 G 43549048.69 43549048.70 43549048.74 0.0139 0.0138

Uranus 114521-05-21 11:29 G 43549136.89 43549136.98 43549137.10 0.0139 0.0112

Uranus 114521-08-17 18:12 G 43549225.13 43549225.26 43549225.41 0.0139 0.0087

Uranus 114521-11-14 01:10 G 43549313.39 43549313.55 43549313.71 0.0139 0.0062

Uranus 114522-02-10 07:53 G 43549401.66 43549401.83 43549402.01 0.0139 0.0036

Uranus 114522-05-09 14:36 G 43549489.93 43549490.11 43549490.30 0.0139 0.0011

Uranus 114522-08-05 21:34 G 43549578.22 43549578.40 43549578.58 0.0139 0.0015

Uranus 114522-11-02 04:32 G 43549666.51 43549666.69 43549666.86 0.0139 0.0041

Uranus 114523-01-29 11:15 G 43549754.82 43549754.97 43549755.14 0.0139 0.0067

Uranus 114523-04-27 18:12 G 43549843.13 43549843.26 43549843.40 0.0139 0.0093

Uranus 114523-07-25 01:10 G 43549931.46 43549931.55 43549931.65 0.0139 0.0119

Jupiter 114525-01-01 09:20 G 43550457.73 43550457.89 43550458.05 0.0498 0.0206

Venus 114525-08-17 22:46 G 43550686.38 43550686.45 43550686.53 0.3692 0.2440

Moon 114526-08-06 01:10 G 43551039.50 43551039.55 43551039.60 0.2660 0.2296

Earth 114526-08-06 01:53 G 43551039.53 43551039.58 43551039.63 0.2659 0.2376 *

Saturn 114526-12-05 06:56 G 43551160.71 43551160.79 43551160.88 0.0272 0.0235

Venus 114527-03-03 19:24 G 43551249.17 43551249.31 43551249.45 0.3677 0.1058

Saturn 114527-03-04 02:36 G 43551249.43 43551249.61 43551249.78 0.0272 0.0052 *

Saturn 114527-05-31 22:17 G 43551338.28 43551338.43 43551338.59 0.0271 0.0135

Mars 114529-01-03 19:24 G 43551921.23 43551921.31 43551921.39 0.1853 0.1262

Mars 114530-01-30 15:34 G 43552312.99 43552313.15 43552313.30 0.1696 0.0629

Jupiter 114530-09-08 07:39 G 43552533.69 43552533.82 43552533.95 0.0529 0.0101

Venus 114532-09-17 00:27 G 43553273.45 43553273.52 43553273.60 0.3682 0.3060

Moon 114533-07-30 00:56 G 43553589.49 43553589.54 43553589.58 0.2658 0.2423

Earth 114533-07-30 00:41 G 43553589.49 43553589.53 43553589.58 0.2664 0.2390 *

Jupiter 114536-10-20 08:08 G 43554767.74 43554767.84 43554767.95 0.0497 0.0393

Jupiter 114537-01-18 11:29 G 43554857.86 43554857.98 43554858.10 0.0500 0.0368

Mars 114540-05-01 16:17 G 43556057.16 43556057.18 43556057.19 0.1827 0.1806

Saturn 114542-01-01 14:51 G 43556667.06 43556667.12 43556667.19 0.0287 0.0250

Saturn 114542-03-31 03:48 G 43556755.53 43556755.66 43556755.79 0.0288 0.0082

Jupiter 114542-06-27 11:15 G 43556843.84 43556843.97 43556844.10 0.0530 0.0068

Saturn 114542-06-27 16:32 G 43556844.06 43556844.19 43556844.32 0.0288 0.0085 *

Saturn 114542-09-24 04:46 G 43556932.64 43556932.70 43556932.77 0.0288 0.0250

Moon 114546-08-01 18:12 G 43558340.15 43558340.26 43558340.37 0.2659 0.0694

Earth 114546-08-01 18:56 G 43558340.18 43558340.29 43558340.40 0.2662 0.0653 *

Jupiter 114548-11-06 09:05 G 43559167.71 43559167.88 43559168.04 0.0499 0.0160

Moon 114549-02-02 20:36 G 43559256.26 43559256.36 43559256.46 0.2666 0.2009

Earth 114549-02-02 22:03 G 43559256.31 43559256.42 43559256.53 0.2670 0.1852 *

Mars 114549-09-22 01:24 G 43559487.46 43559487.56 43559487.66 0.1836 0.0850

Jupiter 114554-04-15 15:05 G 43561154.01 43561154.13 43561154.25 0.0531 0.0230

Jupiter 114554-07-13 23:29 G 43561243.42 43561243.48 43561243.56 0.0527 0.0440

Saturn 114556-07-21 02:51 G 43561981.46 43561981.62 43561981.79 0.0271 0.0098

Saturn 114556-10-17 22:32 G 43562070.27 43562070.44 43562070.61 0.0271 0.0087

Mars 114559-02-12 10:32 G 43562917.83 43562917.94 43562918.06 0.1844 0.0127

Moon 114559-08-04 12:27 G 43563090.92 43563091.02 43563091.12 0.2666 0.0918

Earth 114559-08-04 12:56 G 43563090.94 43563091.04 43563091.14 0.2661 0.1060 *

Mars 114560-03-10 16:46 G 43563310.06 43563310.20 43563310.34 0.1704 0.0892

Jupiter 114560-08-25 07:53 G 43563477.65 43563477.83 43563478.00 0.0499 0.0030

Moon 114562-02-06 02:22 G 43564007.47 43564007.60 43564007.73 0.2676 0.1275

Earth 114562-02-06 03:34 G 43564007.52 43564007.65 43564007.77 0.2672 0.1499 *

Uranus 114564-05-26 04:46 G 43564847.67 43564847.70 43564847.75 0.0139 0.0133

Uranus 114564-08-22 08:36 G 43564935.79 43564935.86 43564935.95 0.0139 0.0113

Uranus 114564-11-18 12:41 G 43565023.93 43565024.03 43565024.13 0.0139 0.0093

Uranus 114565-02-14 16:17 G 43565112.07 43565112.18 43565112.30 0.0139 0.0073

Uranus 114565-05-13 20:08 G 43565200.21 43565200.34 43565200.47 0.0139 0.0053

Venus 114565-08-09 18:56 G 43565288.20 43565288.29 43565288.37 0.3701 0.2151

Uranus 114565-08-09 23:58 G 43565288.36 43565288.50 43565288.63 0.0139 0.0034 *

Uranus 114565-11-06 03:34 G 43565376.52 43565376.65 43565376.79 0.0139 0.0015

Jupiter 114566-02-01 18:12 G 43565464.18 43565464.26 43565464.35 0.0531 0.0402

Uranus 114566-02-02 07:24 G 43565464.67 43565464.81 43565464.95 0.0139 0.0006

Uranus 114566-05-01 11:00 G 43565552.83 43565552.96 43565553.10 0.0139 0.0025

Jupiter 114566-05-02 03:20 G 43565553.53 43565553.64 43565553.75 0.0528 0.0277

Uranus 114566-07-28 14:51 G 43565640.99 43565641.12 43565641.25 0.0139 0.0045

Uranus 114566-10-24 18:27 G 43565729.15 43565729.27 43565729.39 0.0139 0.0064

Uranus 114567-01-20 22:03 G 43565817.31 43565817.42 43565817.53 0.0139 0.0083

Uranus 114567-04-19 01:39 G 43565905.48 43565905.57 43565905.67 0.0139 0.0103

Uranus 114567-07-16 05:29 G 43565993.66 43565993.73 43565993.79 0.0139 0.0122

Mars 114568-07-04 19:24 G 43566348.22 43566348.31 43566348.40 0.1853 0.1149

Mars 114569-07-31 16:03 G 43566740.01 43566740.17 43566740.33 0.1696 0.0470

Venus 114571-02-23 11:29 G 43567311.88 43567311.98 43567312.09 0.3698 0.0405

Saturn 114571-08-18 05:00 G 43567487.59 43567487.71 43567487.83 0.0288 0.0139

Saturn 114571-11-14 17:44 G 43567576.10 43567576.24 43567576.38 0.0288 0.0029

Saturn 114572-02-11 06:12 G 43567664.66 43567664.76 43567664.86 0.0289 0.0195

Jupiter 114572-06-13 06:56 G 43567787.63 43567787.79 43567787.94 0.0498 0.0214

Venus 114576-09-08 04:03 G 43569335.58 43569335.67 43569335.77 0.3694 0.1324

Jupiter 114578-02-18 06:41 G 43569863.65 43569863.78 43569863.91 0.0528 0.0108

Neptune 114579-06-08 07:10 G 43570338.78 43570338.80 43570338.87 0.0089 0.0087

Moon 114579-07-31 05:00 G 43570391.64 43570391.71 43570391.77 0.2665 0.2185

Earth 114579-07-31 05:44 G 43570391.67 43570391.74 43570391.81 0.2664 0.2024 *

Neptune 114579-09-04 10:17 G 43570426.86 43570426.93 43570427.04 0.0089 0.0078

Neptune 114579-12-01 13:39 G 43570514.97 43570515.07 43570515.20 0.0089 0.0068

Neptune 114580-02-27 17:15 G 43570603.08 43570603.22 43570603.35 0.0089 0.0059

Neptune 114580-05-25 20:08 G 43570691.20 43570691.34 43570691.50 0.0089 0.0050

Neptune 114580-08-21 23:15 G 43570779.32 43570779.47 43570779.65 0.0089 0.0041

Neptune 114580-11-18 02:36 G 43570867.44 43570867.61 43570867.79 0.0089 0.0031

Neptune 114581-02-14 05:58 G 43570955.57 43570955.75 43570955.93 0.0089 0.0022

Neptune 114581-05-13 09:05 G 43571043.70 43571043.88 43571044.07 0.0089 0.0013

Neptune 114581-08-09 12:27 G 43571131.84 43571132.02 43571132.21 0.0089 0.0003

Neptune 114581-11-05 15:48 G 43571219.97 43571220.16 43571220.34 0.0089 0.0007

Neptune 114582-02-01 18:56 G 43571308.11 43571308.29 43571308.48 0.0089 0.0016

Venus 114582-03-24 20:36 G 43571359.30 43571359.36 43571359.42 0.3691 0.2976

Neptune 114582-04-30 22:17 G 43571396.25 43571396.43 43571396.61 0.0089 0.0025

Neptune 114582-07-28 01:24 G 43571484.40 43571484.56 43571484.74 0.0089 0.0035

Neptune 114582-10-24 04:46 G 43571572.55 43571572.70 43571572.87 0.0089 0.0044

Neptune 114583-01-20 07:53 G 43571660.70 43571660.83 43571660.99 0.0089 0.0054

Neptune 114583-04-18 11:29 G 43571748.85 43571748.98 43571749.11 0.0089 0.0063

Neptune 114583-07-15 14:36 G 43571837.02 43571837.11 43571837.23 0.0089 0.0073

Venus 114583-10-08 20:22 G 43571922.21 43571922.35 43571922.50 0.3678 0.0188

Neptune 114583-10-11 18:12 G 43571925.20 43571925.26 43571925.33 0.0089 0.0083

Jupiter 114584-04-01 06:12 G 43572097.65 43572097.76 43572097.86 0.0497 0.0396

Jupiter 114584-06-30 09:20 G 43572187.78 43572187.89 43572188.01 0.0500 0.0366

Saturn 114585-12-08 03:05 G 43572713.48 43572713.63 43572713.78 0.0272 0.0145

Saturn 114586-03-06 22:46 G 43572802.28 43572802.45 43572802.63 0.0271 0.0040

Saturn 114586-06-03 18:27 G 43572891.19 43572891.27 43572891.38 0.0271 0.0228

Mars 114589-03-23 01:24 G 43573914.47 43573914.56 43573914.66 0.1836 0.0971

Jupiter 114589-12-07 09:20 G 43574173.76 43574173.89 43574174.02 0.0530 0.0076

Moon 114592-08-01 23:44 G 43575142.38 43575142.49 43575142.60 0.2669 0.0257

Earth 114592-08-01 23:44 G 43575142.38 43575142.49 43575142.60 0.2662 0.0290 *

Moon 114595-02-04 04:17 G 43576058.55 43576058.68 43576058.81 0.2676 0.1296

Earth 114595-02-04 04:32 G 43576058.55 43576058.69 43576058.82 0.2670 0.1195 *

Jupiter 114596-04-18 07:39 G 43576497.65 43576497.82 43576497.98 0.0499 0.0168

Mars 114598-08-13 10:32 G 43577344.82 43577344.94 43577345.05 0.1844 0.0065

Mars 114599-09-09 17:29 G 43577737.10 43577737.23 43577737.36 0.1704 0.1067

Saturn 114601-01-05 08:51 G 43578219.76 43578219.87 43578219.98 0.0288 0.0162

Saturn 114601-04-03 21:34 G 43578308.27 43578308.40 43578308.54 0.0288 0.0008

Saturn 114601-07-01 10:17 G 43578396.82 43578396.93 43578397.04 0.0288 0.0171

Jupiter 114601-09-26 12:41 G 43578483.91 43578484.03 43578484.15 0.0531 0.0248

Jupiter 114601-12-24 21:20 G 43578573.31 43578573.39 43578573.47 0.0527 0.0423

Uranus 114605-03-15 12:41 G 43579749.97 43579750.03 43579750.10 0.0139 0.0129

Uranus 114605-06-11 19:24 G 43579838.20 43579838.31 43579838.43 0.0139 0.0104

Earth 114605-08-05 17:44 G 43579893.15 43579893.24 43579893.33 0.2660 0.1414

Moon 114605-08-05 18:27 G 43579893.18 43579893.27 43579893.36 0.2663 0.1507 *

Uranus 114605-09-08 02:08 G 43579926.45 43579926.59 43579926.74 0.0139 0.0078

Uranus 114605-12-05 08:51 G 43580014.71 43580014.87 43580015.04 0.0139 0.0053

Uranus 114606-03-03 15:48 G 43580102.98 43580103.16 43580103.33 0.0139 0.0028

Uranus 114606-05-30 22:32 G 43580191.26 43580191.44 43580191.62 0.0139 0.0002

Uranus 114606-08-27 05:15 G 43580279.55 43580279.72 43580279.91 0.0139 0.0024

Uranus 114606-11-23 12:12 G 43580367.84 43580368.01 43580368.18 0.0139 0.0050

Uranus 114607-02-19 18:56 G 43580456.15 43580456.29 43580456.45 0.0139 0.0076

Uranus 114607-05-19 01:53 G 43580544.47 43580544.58 43580544.72 0.0139 0.0102

Uranus 114607-08-15 08:51 G 43580632.81 43580632.87 43580632.95 0.0139 0.0128

Mars 114608-01-04 19:24 G 43580775.21 43580775.31 43580775.40 0.1853 0.1027

Jupiter 114608-02-06 05:15 G 43580807.55 43580807.72 43580807.89 0.0498 0.0038

Earth 114608-02-08 09:48 G 43580809.83 43580809.91 43580810.00 0.2672 0.2164

Moon 114608-02-08 11:15 G 43580809.91 43580809.97 43580810.03 0.2677 0.2455 *

Mars 114609-01-30 17:00 G 43581167.04 43581167.21 43581167.37 0.1697 0.0281

Jupiter 114613-07-15 16:17 G 43582794.10 43582794.18 43582794.26 0.0531 0.0412

Jupiter 114613-10-13 01:24 G 43582883.44 43582883.56 43582883.67 0.0528 0.0269

Saturn 114615-04-28 04:03 G 43583445.55 43583445.67 43583445.80 0.0272 0.0185

Saturn 114615-07-25 23:44 G 43583534.31 43583534.49 43583534.67 0.0271 0.0002

Saturn 114615-10-22 19:24 G 43583623.18 43583623.31 43583623.45 0.0271 0.0184

Venus 114616-08-31 23:44 G 43583937.45 43583937.49 43583937.54 0.3704 0.3354

Mars 114618-06-22 16:32 G 43584597.14 43584597.19 43584597.25 0.1689 0.1596

Jupiter 114619-11-25 04:03 G 43585117.52 43585117.67 43585117.83 0.0498 0.0225

Venus 114622-03-17 16:32 G 43585961.10 43585961.19 43585961.29 0.3701 0.1573

Pluto 114623-07-23 15:05 G 43586454.05 43586454.13 43586454.25 0.0059 0.0051

Pluto 114623-10-19 16:32 G 43586542.07 43586542.19 43586542.35 0.0059 0.0042

Pluto 114624-01-15 17:58 G 43586630.10 43586630.25 43586630.43 0.0060 0.0033

Pluto 114624-04-12 19:39 G 43586718.14 43586718.32 43586718.51 0.0060 0.0023

Pluto 114624-07-09 21:05 G 43586806.19 43586806.38 43586806.57 0.0060 0.0014

Pluto 114624-10-05 22:32 G 43586894.24 43586894.44 43586894.64 0.0060 0.0005

Pluto 114625-01-01 23:44 G 43586982.30 43586982.49 43586982.70 0.0060 0.0005

Pluto 114625-03-31 01:10 G 43587070.36 43587070.55 43587070.75 0.0060 0.0014

Pluto 114625-06-27 02:36 G 43587158.43 43587158.61 43587158.80 0.0060 0.0023

Jupiter 114625-08-01 05:00 G 43587193.58 43587193.71 43587193.84 0.0529 0.0104

Earth 114625-08-01 10:32 G 43587193.85 43587193.94 43587194.03 0.2663 0.1658

Moon 114625-08-01 11:00 G 43587193.87 43587193.96 43587194.05 0.2668 0.1558 *

Pluto 114625-09-23 03:34 G 43587246.51 43587246.65 43587246.84 0.0060 0.0033

Pluto 114625-12-20 05:15 G 43587334.59 43587334.72 43587334.87 0.0060 0.0042

Pluto 114626-03-18 06:56 G 43587422.69 43587422.79 43587422.89 0.0060 0.0051

Venus 114627-10-01 09:20 G 43587984.78 43587984.89 43587985.00 0.3697 0.0176

Mars 114628-09-22 01:24 G 43588341.47 43588341.56 43588341.66 0.1835 0.1091

Saturn 114630-05-25 09:48 G 43588951.83 43588951.91 43588952.00 0.0288 0.0221

Saturn 114630-08-21 22:46 G 43589040.32 43589040.45 43589040.58 0.0288 0.0052

Saturn 114630-11-18 11:29 G 43589128.85 43589128.98 43589129.10 0.0289 0.0115

Saturn 114631-02-14 23:44 G 43589217.47 43589217.49 43589217.53 0.0289 0.0280

Jupiter 114631-09-13 03:20 G 43589427.55 43589427.64 43589427.74 0.0497 0.0406

Jupiter 114631-12-12 06:41 G 43589517.66 43589517.78 43589517.90 0.0500 0.0355

Venus 114633-04-16 01:53 G 43590008.49 43590008.58 43590008.67 0.3693 0.1860

Venus 114634-10-30 16:32 G 43590571.09 43590571.19 43590571.30 0.3675 0.2547

Jupiter 114637-05-20 08:08 G 43591503.71 43591503.84 43591503.98 0.0529 0.0070

Mars 114638-02-12 10:32 G 43591771.82 43591771.94 43591772.05 0.1844 0.0116

Earth 114638-08-04 04:32 G 43591944.58 43591944.69 43591944.80 0.2662 0.0089

Moon 114638-08-04 05:15 G 43591944.61 43591944.72 43591944.84 0.2660 0.0163 *

Venus 114638-10-30 18:12 G 43592032.23 43592032.26 43592032.29 0.3690 0.3507

Mars 114639-03-11 18:12 G 43592164.15 43592164.26 43592164.37 0.1705 0.1250

Venus 114640-05-15 21:34 G 43592595.26 43592595.40 43592595.53 0.3680 0.1454

Earth 114641-02-05 10:46 G 43592860.80 43592860.95 43592861.10 0.2671 0.0553

Moon 114641-02-05 12:27 G 43592860.87 43592861.02 43592861.17 0.2669 0.0413 *

Jupiter 114643-09-30 05:29 G 43593827.57 43593827.73 43593827.90 0.0499 0.0165

Saturn 114644-09-14 04:03 G 43594177.59 43594177.67 43594177.76 0.0272 0.0235

Saturn 114644-12-11 23:44 G 43594266.31 43594266.49 43594266.66 0.0271 0.0052

Saturn 114645-03-10 19:24 G 43594355.15 43594355.31 43594355.47 0.0271 0.0134

Mars 114647-07-05 19:24 G 43595202.21 43595202.31 43595202.41 0.1852 0.0910

Uranus 114648-06-16 12:27 G 43595548.98 43595549.02 43595549.09 0.0139 0.0126

Mars 114648-07-31 17:44 G 43595594.07 43595594.24 43595594.40 0.1697 0.0114

Uranus 114648-09-12 16:17 G 43595637.10 43595637.18 43595637.28 0.0139 0.0106

Uranus 114648-12-09 20:08 G 43595725.24 43595725.34 43595725.46 0.0139 0.0086

Uranus 114649-03-08 00:12 G 43595813.39 43595813.51 43595813.63 0.0139 0.0066

Jupiter 114649-03-08 10:46 G 43595813.83 43595813.95 43595814.07 0.0530 0.0254

Uranus 114649-06-04 04:03 G 43595901.53 43595901.67 43595901.80 0.0139 0.0046

Jupiter 114649-06-05 19:24 G 43595903.23 43595903.31 43595903.39 0.0527 0.0416

Uranus 114649-08-31 07:39 G 43595989.69 43595989.82 43595989.96 0.0139 0.0027

Uranus 114649-11-27 11:29 G 43596077.84 43596077.98 43596078.12 0.0139 0.0007

Uranus 114650-02-23 15:05 G 43596165.99 43596166.13 43596166.27 0.0139 0.0013

Uranus 114650-05-22 18:56 G 43596254.15 43596254.29 43596254.42 0.0139 0.0032

Uranus 114650-08-18 22:32 G 43596342.31 43596342.44 43596342.57 0.0139 0.0052

Uranus 114650-11-15 02:08 G 43596430.48 43596430.59 43596430.71 0.0139 0.0071

Uranus 114651-02-11 05:44 G 43596518.64 43596518.74 43596518.85 0.0139 0.0091

Uranus 114651-05-10 09:34 G 43596606.81 43596606.90 43596606.98 0.0139 0.0110

Uranus 114651-08-06 13:10 G 43596695.00 43596695.05 43596695.10 0.0139 0.0129

Moon 114651-08-06 22:32 G 43596695.36 43596695.44 43596695.52 0.2653 0.1789

Earth 114651-08-06 22:32 G 43596695.36 43596695.44 43596695.53 0.2660 0.1770 *

Jupiter 114655-07-19 04:03 G 43598137.49 43598137.67 43598137.84 0.0498 0.0031

Mars 114657-12-21 17:29 G 43599024.14 43599024.23 43599024.32 0.1689 0.1416

Saturn 114659-10-12 13:39 G 43599684.00 43599684.07 43599684.14 0.0288 0.0247

Neptune 114660-01-08 22:46 G 43599772.41 43599772.45 43599772.50 0.0088 0.0082

Saturn 114660-01-09 02:22 G 43599772.47 43599772.60 43599772.74 0.0288 0.0079 *

Neptune 114660-04-06 00:12 G 43599860.45 43599860.51 43599860.59 0.0088 0.0075

Saturn 114660-04-06 15:05 G 43599861.01 43599861.13 43599861.26 0.0288 0.0090

Neptune 114660-07-03 01:53 G 43599948.50 43599948.58 43599948.67 0.0088 0.0068

Saturn 114660-07-04 03:34 G 43599949.60 43599949.65 43599949.72 0.0289 0.0255

Neptune 114660-09-29 03:20 G 43600036.55 43600036.64 43600036.74 0.0088 0.0061

Jupiter 114660-12-25 13:53 G 43600124.00 43600124.08 43600124.16 0.0531 0.0429

Neptune 114660-12-26 05:00 G 43600124.60 43600124.71 43600124.82 0.0088 0.0055

Neptune 114661-03-24 06:12 G 43600212.65 43600212.76 43600212.89 0.0088 0.0048

Jupiter 114661-03-24 23:00 G 43600213.35 43600213.46 43600213.58 0.0528 0.0253

Neptune 114661-06-20 07:39 G 43600300.71 43600300.82 43600300.96 0.0088 0.0042

Neptune 114661-09-16 09:20 G 43600388.77 43600388.89 43600389.02 0.0088 0.0034

Neptune 114661-12-13 10:46 G 43600476.83 43600476.95 43600477.09 0.0088 0.0027

Neptune 114662-03-11 12:27 G 43600564.88 43600565.02 43600565.15 0.0088 0.0020

Neptune 114662-06-07 13:53 G 43600652.94 43600653.08 43600653.22 0.0088 0.0014

Neptune 114662-09-03 15:20 G 43600741.00 43600741.14 43600741.28 0.0088 0.0007

Neptune 114662-11-30 16:46 G 43600829.06 43600829.20 43600829.34 0.0088 0.0001

Neptune 114663-02-26 18:12 G 43600917.12 43600917.26 43600917.40 0.0088 0.0007

Neptune 114663-05-25 19:39 G 43601005.19 43601005.32 43601005.46 0.0088 0.0014

Neptune 114663-08-21 21:05 G 43601093.25 43601093.38 43601093.52 0.0088 0.0020

Neptune 114663-11-17 22:32 G 43601181.31 43601181.44 43601181.57 0.0088 0.0027

Neptune 114664-02-13 23:44 G 43601269.37 43601269.49 43601269.63 0.0088 0.0034

Neptune 114664-05-12 01:24 G 43601357.44 43601357.56 43601357.68 0.0088 0.0040

Neptune 114664-08-08 02:36 G 43601445.50 43601445.61 43601445.73 0.0088 0.0047

Neptune 114664-11-04 04:17 G 43601533.57 43601533.68 43601533.79 0.0088 0.0053

Neptune 114665-01-31 05:29 G 43601621.64 43601621.73 43601621.84 0.0088 0.0060

Neptune 114665-04-29 06:41 G 43601709.71 43601709.78 43601709.88 0.0088 0.0067

Neptune 114665-07-26 08:22 G 43601797.78 43601797.85 43601797.93 0.0088 0.0073

Neptune 114665-10-22 09:34 G 43601885.86 43601885.90 43601885.97 0.0088 0.0080

Neptune 114666-01-18 11:00 G 43601973.95 43601973.96 43601973.99 0.0088 0.0086

Jupiter 114667-05-07 01:39 G 43602447.42 43602447.57 43602447.73 0.0498 0.0233

Mars 114668-03-23 01:24 G 43602768.47 43602768.56 43602768.65 0.1836 0.1199

Earth 114671-08-02 15:20 G 43603996.04 43603996.14 43603996.24 0.2663 0.1292

Moon 114671-08-02 15:48 G 43603996.06 43603996.16 43603996.26 0.2658 0.1140 *

Jupiter 114673-01-11 03:05 G 43604523.50 43604523.63 43604523.76 0.0529 0.0096

Venus 114673-04-07 21:34 G 43604610.33 43604610.40 43604610.47 0.3703 0.2773

Saturn 114674-02-01 05:29 G 43604909.72 43604909.73 43604909.75 0.0272 0.0270

Saturn 114674-05-01 00:56 G 43604998.38 43604998.54 43604998.71 0.0271 0.0089

Saturn 114674-07-28 20:36 G 43605087.19 43605087.36 43605087.53 0.0271 0.0096

Mars 114677-08-13 10:32 G 43606198.82 43606198.94 43606199.05 0.1844 0.0226

Mars 114678-09-09 18:41 G 43606591.20 43606591.28 43606591.38 0.1705 0.1429

Venus 114678-10-22 14:22 G 43606634.00 43606634.10 43606634.20 0.3700 0.0993

Jupiter 114679-02-23 00:41 G 43606757.44 43606757.53 43606757.63 0.0497 0.0415

Jupiter 114679-05-24 03:48 G 43606847.54 43606847.66 43606847.79 0.0500 0.0344

Venus 114684-05-07 06:56 G 43608657.69 43608657.79 43608657.90 0.3696 0.0724

Moon 114684-08-04 09:05 G 43608746.76 43608746.88 43608746.99 0.2657 0.0300

Earth 114684-08-04 09:34 G 43608746.79 43608746.90 43608747.01 0.2661 0.0445 *

Jupiter 114684-10-30 06:41 G 43608833.65 43608833.78 43608833.91 0.0530 0.0071

Mars 114687-01-03 19:24 G 43609629.20 43609629.31 43609629.41 0.1852 0.0789

Moon 114687-02-06 16:32 G 43609663.03 43609663.19 43609663.34 0.2665 0.0093

Earth 114687-02-06 17:15 G 43609663.06 43609663.22 43609663.37 0.2671 0.0132 *

Mars 114688-01-30 18:12 G 43610021.09 43610021.26 43610021.43 0.1697 0.0063

Uranus 114689-04-04 20:08 G 43610451.26 43610451.34 43610451.44 0.0139 0.0121

Saturn 114689-05-28 03:34 G 43610504.53 43610504.65 43610504.77 0.0288 0.0136

Uranus 114689-07-02 02:51 G 43610539.50 43610539.62 43610539.76 0.0139 0.0096

Saturn 114689-08-24 16:17 G 43610593.05 43610593.18 43610593.32 0.0288 0.0032

Uranus 114689-09-28 09:34 G 43610627.75 43610627.90 43610628.06 0.0139 0.0071

Venus 114689-11-20 23:29 G 43610681.40 43610681.48 43610681.56 0.3693 0.2401

Saturn 114689-11-21 04:46 G 43610681.61 43610681.70 43610681.80 0.0289 0.0198

Uranus 114689-12-25 16:32 G 43610716.02 43610716.19 43610716.36 0.0139 0.0045

Uranus 114690-03-23 23:15 G 43610804.29 43610804.47 43610804.65 0.0139 0.0020

Uranus 114690-06-20 05:58 G 43610892.57 43610892.75 43610892.94 0.0139 0.0007

Uranus 114690-09-16 12:56 G 43610980.86 43610981.04 43610981.22 0.0139 0.0032

Uranus 114690-12-13 19:39 G 43611069.16 43611069.32 43611069.49 0.0139 0.0058

Jupiter 114691-03-12 02:51 G 43611157.45 43611157.62 43611157.78 0.0499 0.0154

Uranus 114691-03-12 02:22 G 43611157.47 43611157.60 43611157.76 0.0139 0.0084 *

Venus 114691-06-06 17:29 G 43611244.10 43611244.23 43611244.37 0.3676 0.1335

Uranus 114691-06-08 09:20 G 43611245.80 43611245.89 43611246.02 0.0139 0.0110

Uranus 114691-09-04 16:17 G 43611334.16 43611334.18 43611334.23 0.0139 0.0136

Mars 114696-05-26 04:03 G 43613059.66 43613059.67 43613059.69 0.1861 0.1833

Jupiter 114696-08-18 09:48 G 43613143.79 43613143.91 43613144.03 0.0530 0.0243

Jupiter 114696-11-15 18:27 G 43613233.20 43613233.27 43613233.35 0.0527 0.0426

Venus	114696-12-20 22:32 G	43613268.35	43613268.44	43613268.54	0.3681	0.2727
Mars	114697-06-21 18:12 G	43613451.15	43613451.26	43613451.37	0.1689	0.1243
Moon	114697-08-07 02:51 G	43613497.55	43613497.62	43613497.68	0.2661	0.2075
Earth	114697-08-07 03:20 G	43613497.58	43613497.64	43613497.71	0.2660	0.2125 *
Jupiter	114702-12-30 01:53 G	43615467.40	43615467.58	43615467.75	0.0499	0.0033
Saturn	114703-09-19 00:27 G	43615730.37	43615730.52	43615730.67	0.0271	0.0143
Saturn	114703-12-16 20:08 G	43615819.16	43615819.34	43615819.51	0.0271	0.0041
Saturn	114704-03-14 15:48 G	43615908.07	43615908.16	43615908.26	0.0271	0.0227
Mars	114707-09-23 01:24 G	43617195.48	43617195.56	43617195.64	0.1835	0.1320
Jupiter	114708-06-07 12:12 G	43617453.94	43617454.01	43617454.09	0.0531	0.0433
Jupiter	114708-09-04 21:20 G	43617543.28	43617543.39	43617543.51	0.0528	0.0249
Jupiter	114714-10-18 00:27 G	43619777.37	43619777.52	43619777.68	0.0498	0.0222
Mars	114717-02-12 10:17 G	43620625.82	43620625.93	43620626.05	0.1844	0.0342
Moon	114717-08-03 19:39 G	43620798.21	43620798.32	43620798.42	0.2662	0.1015
Earth	114717-08-03 20:22 G	43620798.24	43620798.35	43620798.45	0.2663	0.0926 *
Mars	114718-03-11 19:39 G	43621018.27	43621018.32	43621018.37	0.1705	0.1612
Saturn	114718-10-16 06:56 G	43621236.68	43621236.79	43621236.91	0.0288	0.0166
Saturn	114719-01-12 19:53 G	43621325.19	43621325.33	43621325.46	0.0288	0.0005
Saturn	114719-04-11 08:22 G	43621413.75	43621413.85	43621413.96	0.0288	0.0169
Pluto	114719-07-15 20:08 G	43621509.31	43621509.34	43621509.39	0.0085	0.0080
Pluto	114719-10-11 21:20 G	43621597.31	43621597.39	43621597.49	0.0085	0.0062
Pluto	114720-01-07 22:46 G	43621685.34	43621685.45	43621685.56	0.0085	0.0044
Earth	114720-02-05 18:27 G	43621714.22	43621714.27	43621714.31	0.2669	0.2532
Pluto	114720-04-04 23:58 G	43621773.38	43621773.50	43621773.63	0.0085	0.0026
Jupiter	114720-06-24 00:56 G	43621853.41	43621853.54	43621853.67	0.0529	0.0083
Pluto	114720-07-02 01:10 G	43621861.42	43621861.55	43621861.68	0.0085	0.0008
Pluto	114720-09-28 02:22 G	43621949.47	43621949.60	43621949.73	0.0085	0.0010
Pluto	114720-12-25 03:34 G	43622037.53	43622037.65	43622037.78	0.0084	0.0027
Pluto	114721-03-23 04:46 G	43622125.59	43622125.70	43622125.81	0.0084	0.0045
Pluto	114721-06-19 05:44 G	43622213.66	43622213.74	43622213.84	0.0084	0.0062

Pluto 114721-09-15 06:56 G 43622301.76 43622301.79 43622301.84 0.0084 0.0079

Mars 114726-07-05 19:24 G 43624056.20 43624056.31 43624056.42 0.1852 0.0672

Jupiter 114726-08-05 22:17 G 43624087.35 43624087.43 43624087.53 0.0497 0.0422

Jupiter 114726-11-04 01:24 G 43624177.43 43624177.56 43624177.69 0.0500 0.0336

Mars 114727-08-01 18:56 G 43624448.13 43624448.29 43624448.46 0.1697 0.0253

Venus 114729-11-13 19:24 G 43625283.22 43625283.31 43625283.39 0.3702 0.2187

Moon 114730-08-06 13:53 G 43625548.97 43625549.08 43625549.19 0.2666 0.0705

Earth 114730-08-06 14:22 G 43625548.99 43625549.10 43625549.21 0.2661 0.0796 *

Uranus 114732-04-10 16:32 G 43626162.19 43626162.19 43626162.20 0.0138 0.0138

Jupiter 114732-04-12 04:32 G 43626163.56 43626163.69 43626163.83 0.0530 0.0082

Uranus 114732-07-07 20:08 G 43626250.28 43626250.34 43626250.43 0.0139 0.0119

Uranus 114732-10-04 00:12 G 43626338.42 43626338.51 43626338.61 0.0139 0.0098

Uranus 114732-12-31 04:03 G 43626426.56 43626426.67 43626426.79 0.0139 0.0079

Saturn 114733-02-05 02:08 G 43626462.46 43626462.59 43626462.73 0.0272 0.0177

Moon 114733-02-07 22:17 G 43626465.29 43626465.43 43626465.58 0.2677 0.0669

Earth 114733-02-07 23:29 G 43626465.33 43626465.48 43626465.63 0.2671 0.0766 *

Uranus 114733-03-29 07:53 G 43626514.70 43626514.83 43626514.95 0.0139 0.0059

Saturn 114733-05-04 21:34 G 43626551.22 43626551.40 43626551.58 0.0271 0.0007

Uranus 114733-06-25 11:29 G 43626602.85 43626602.98 43626603.12 0.0139 0.0039

Saturn 114733-08-01 17:15 G 43626640.10 43626640.22 43626640.35 0.0271 0.0192

Uranus 114733-09-21 15:20 G 43626691.00 43626691.14 43626691.28 0.0139 0.0020

Uranus 114733-12-18 19:10 G 43626779.16 43626779.30 43626779.44 0.0139 0.0003

Uranus 114734-03-16 22:46 G 43626867.31 43626867.45 43626867.59 0.0139 0.0020

Uranus 114734-06-13 02:22 G 43626955.47 43626955.60 43626955.74 0.0139 0.0039

Uranus 114734-09-09 06:12 G 43627043.63 43627043.76 43627043.88 0.0139 0.0059

Uranus 114734-12-06 09:34 G 43627131.80 43627131.90 43627132.02 0.0139 0.0079

Uranus 114735-03-04 13:24 G 43627219.97 43627220.06 43627220.16 0.0139 0.0097

Venus 114735-05-30 12:12 G 43627306.90 43627307.01 43627307.11 0.3699 0.0448

Uranus 114735-05-31 17:00 G 43627308.14 43627308.21 43627308.29 0.0139 0.0116

Uranus 114735-08-27 20:36 G 43627396.34 43627396.36 43627396.39 0.0140 0.0136

Mars 114735-11-26 04:17 G 43627486.63 43627486.68 43627486.72 0.1860 0.1705

Mars 114736-12-21 18:41 G 43627878.15 43627878.28 43627878.41 0.1689 0.1080

Jupiter 114738-08-23 00:12 G 43628487.34 43628487.51 43628487.68 0.0499 0.0144

Venus 114740-12-13 04:46 G 43629330.60 43629330.70 43629330.80 0.3695 0.1274

Earth 114743-08-09 08:08 G 43630299.81 43630299.84 43630299.88 0.2659 0.2480

Moon 114743-08-09 08:51 G 43630299.85 43630299.87 43630299.89 0.2664 0.2603 *

Jupiter 114744-01-30 08:08 G 43630473.72 43630473.84 43630473.96 0.0531 0.0246

Neptune 114744-03-06 05:15 G 43630509.68 43630509.72 43630509.81 0.0089 0.0084

Jupiter 114744-04-28 16:46 G 43630563.13 43630563.20 43630563.28 0.0527 0.0425

Neptune 114744-06-02 09:05 G 43630597.78 43630597.88 43630597.98 0.0089 0.0074

Neptune 114744-08-29 11:58 G 43630685.88 43630686.00 43630686.13 0.0089 0.0065

Neptune 114744-11-25 15:05 G 43630774.00 43630774.13 43630774.28 0.0089 0.0056

Neptune 114745-02-21 18:12 G 43630862.12 43630862.26 43630862.43 0.0089 0.0047

Neptune 114745-05-20 21:20 G 43630950.24 43630950.39 43630950.57 0.0089 0.0038

Neptune 114745-08-17 00:41 G 43631038.36 43631038.53 43631038.71 0.0089 0.0028

Neptune 114745-11-13 04:03 G 43631126.49 43631126.67 43631126.85 0.0089 0.0019

Neptune 114746-02-09 07:10 G 43631214.62 43631214.80 43631214.99 0.0089 0.0010

Neptune 114746-05-08 10:32 G 43631302.75 43631302.94 43631303.12 0.0089 0.0000

Venus 114746-06-28 21:05 G 43631354.32 43631354.38 43631354.45 0.3691 0.2940

Neptune 114746-08-04 13:39 G 43631390.89 43631391.07 43631391.26 0.0089 0.0010

Neptune 114746-10-31 16:46 G 43631479.03 43631479.20 43631479.39 0.0089 0.0019

Neptune 114747-01-27 20:08 G 43631567.17 43631567.34 43631567.52 0.0089 0.0028

Mars 114747-03-24 01:24 G 43631622.49 43631622.56 43631622.63 0.1835 0.1438

Neptune 114747-04-25 23:29 G 43631655.32 43631655.48 43631655.65 0.0089 0.0038

Neptune 114747-07-23 02:36 G 43631743.46 43631743.61 43631743.78 0.0089 0.0047

Neptune 114747-10-19 06:12 G 43631831.62 43631831.76 43631831.90 0.0089 0.0057

Venus 114748-01-12 18:27 G 43631917.13 43631917.27 43631917.42 0.3677 0.0152

Neptune 114748-01-15 09:05 G 43631919.77 43631919.88 43631920.02 0.0089 0.0067

Saturn 114748-03-04 07:53 G 43631968.75 43631968.83 43631968.92 0.0288 0.0226

Neptune 114748-04-12 12:56 G 43632007.94 43632008.04 43632008.13 0.0089 0.0076

Saturn 114748-05-31 20:51 G 43632057.23 43632057.37 43632057.50 0.0288 0.0057

Neptune 114748-07-09 15:48 G 43632096.12 43632096.16 43632096.23 0.0089 0.0086

Saturn 114748-08-28 09:34 G 43632145.77 43632145.90 43632146.02 0.0288 0.0110

Saturn 114748-11-24 22:03 G 43632234.38 43632234.42 43632234.46 0.0289 0.0275

Jupiter 114750-06-10 23:15 G 43632797.29 43632797.47 43632797.64 0.0498 0.0044

Moon 114750-08-02 06:12 G 43632849.72 43632849.76 43632849.81 0.2666 0.2382

Earth 114750-08-02 06:56 G 43632849.74 43632849.79 43632849.85 0.2664 0.2305 *

Jupiter 114755-11-18 11:15 G 43634783.89 43634783.97 43634784.06 0.0531 0.0420

Jupiter 114756-02-15 20:22 G 43634873.24 43634873.35 43634873.47 0.0528 0.0262

Mars 114756-08-13 10:17 G 43635052.82 43635052.93 43635053.05 0.1843 0.0456

Jupiter 114762-03-29 22:17 G 43637107.28 43637107.43 43637107.59 0.0498 0.0224

Saturn 114762-06-25 01:10 G 43637194.47 43637194.55 43637194.64 0.0272 0.0235

Saturn 114762-09-21 20:36 G 43637283.19 43637283.36 43637283.54 0.0271 0.0052

Saturn 114762-12-19 16:17 G 43637372.02 43637372.18 43637372.34 0.0271 0.0132

Moon 114763-08-05 01:10 G 43637600.44 43637600.55 43637600.66 0.2670 0.0603

Earth 114763-08-05 01:10 G 43637600.44 43637600.55 43637600.66 0.2663 0.0559 *

Mars 114766-01-03 19:24 G 43638483.20 43638483.31 43638483.42 0.1852 0.0551

Earth 114766-02-06 00:41 G 43638516.42 43638516.53 43638516.64 0.2669 0.1879

Moon 114766-02-06 00:41 G 43638516.44 43638516.53 43638516.63 0.2676 0.1982 *

Mars 114767-01-30 19:53 G 43638875.16 43638875.33 43638875.49 0.1697 0.0430

Jupiter 114767-12-04 23:15 G 43639183.34 43639183.47 43639183.60 0.0529 0.0082

Uranus 114773-01-27 21:20 G 43641064.38 43641064.39 43641064.43 0.0139 0.0138

Uranus 114773-04-26 04:03 G 43641152.58 43641152.67 43641152.79 0.0139 0.0112

Uranus 114773-07-23 10:46 G 43641240.82 43641240.95 43641241.10 0.0139 0.0087

Uranus 114773-10-19 17:44 G 43641329.08 43641329.24 43641329.40 0.0139 0.0062

Jupiter 114774-01-15 21:20 G 43641417.30 43641417.39 43641417.49 0.0497 0.0408

Uranus 114774-01-16 00:27 G 43641417.35 43641417.52 43641417.69 0.0139 0.0036 *

Uranus 114774-04-14 07:10 G 43641505.62 43641505.80 43641505.98 0.0139 0.0011

Jupiter 114774-04-16 00:27 G 43641507.40 43641507.52 43641507.65 0.0500 0.0350

Uranus 114774-07-11 14:08 G 43641593.91 43641594.09 43641594.27 0.0139 0.0015

Uranus 114774-10-07 20:51 G 43641682.20 43641682.37 43641682.55 0.0139 0.0041

Uranus 114775-01-04 03:34 G 43641770.50 43641770.65 43641770.82 0.0139 0.0067

Uranus 114775-04-02 10:32 G 43641858.81 43641858.94 43641859.09 0.0139 0.0093

Mars 114775-05-27 04:03 G 43641913.61 43641913.67 43641913.73 0.1860 0.1599

Uranus 114775-06-29 17:29 G 43641947.15 43641947.23 43641947.33 0.0139 0.0119

Mars 114776-06-21 19:24 G 43642305.18 43642305.31 43642305.45 0.1690 0.0900

Earth 114776-08-06 19:10 G 43642351.20 43642351.30 43642351.40 0.2661 0.1151

Moon 114776-08-06 19:53 G 43642351.23 43642351.33 43642351.43 0.2661 0.1311 *

Saturn 114777-07-22 11:00 G 43642700.90 43642700.96 43642701.01 0.0288 0.0260

Saturn 114777-10-18 23:58 G 43642789.37 43642789.50 43642789.63 0.0288 0.0091

Saturn 114778-01-15 12:41 G 43642877.90 43642878.03 43642878.16 0.0288 0.0077

Saturn 114778-04-14 01:10 G 43642966.48 43642966.55 43642966.62 0.0289 0.0242

Earth 114779-02-09 05:58 G 43643267.62 43643267.75 43643267.88 0.2672 0.1436

Moon 114779-02-09 07:24 G 43643267.69 43643267.81 43643267.92 0.2674 0.1758 *

Jupiter 114779-09-23 02:36 G 43643493.48 43643493.61 43643493.74 0.0530 0.0089

Venus 114780-12-05 00:12 G 43643932.47 43643932.51 43643932.55 0.3705 0.3410

Jupiter 114786-02-01 21:48 G 43645817.25 43645817.41 43645817.58 0.0499 0.0140

Venus 114786-06-20 17:15 G 43645956.12 43645956.22 43645956.31 0.3701 0.1618

Mars 114786-09-22 01:24 G 43646049.50 43646049.56 43646049.62 0.1835 0.1552

Jupiter 114791-07-12 06:12 G 43647803.65 43647803.76 43647803.88 0.0531 0.0254

Jupiter 114791-10-09 15:05 G 43647893.06 43647893.13 43647893.21 0.0528 0.0420

Saturn 114791-11-12 03:05 G 43647926.60 43647926.63 43647926.66 0.0272 0.0267

Venus 114792-01-04 09:48 G 43647979.81 43647979.91 43647980.02 0.3698 0.0146

Saturn 114792-02-08 22:17 G 43648015.27 43648015.43 43648015.60 0.0271 0.0086

Saturn 114792-05-07 17:58 G 43648104.08 43648104.25 43648104.42 0.0271 0.0098

Mars 114796-02-12 10:32 G 43649479.83 43649479.94 43649480.05 0.1843 0.0582

Earth 114796-08-02 11:58 G 43649651.92 43649652.00 43649652.07 0.2664 0.1932

Moon 114796-08-02 12:27 G 43649651.94 43649652.02 43649652.10 0.2669 0.1779 *

Venus 114797-07-20 02:22 G 43650003.51 43650003.60 43650003.69 0.3694 0.1825

Jupiter 114797-11-20 20:51 G 43650127.20 43650127.37 43650127.54 0.0498 0.0048

Venus 114799-02-02 14:51 G 43650566.03 43650566.12 43650566.22 0.3674 0.2782

Venus 114803-02-02 18:56 G 43652027.25 43652027.29 43652027.32 0.3690 0.3470

Jupiter 114803-04-30 09:48 G 43652113.83 43652113.91 43652113.99 0.0532 0.0421

Jupiter 114803-07-28 19:10 G 43652203.18 43652203.30 43652203.41 0.0528 0.0262

Venus 114804-08-18 19:39 G 43652590.18 43652590.32 43652590.46 0.3678 0.1157

Mars 114805-07-04 19:24 G 43652910.19 43652910.31 43652910.42 0.1851 0.0439

Mars 114806-07-31 20:22 G 43653302.19 43653302.35 43653302.50 0.1698 0.0593

Saturn 114807-03-08 00:41 G 43653521.42 43653521.53 43653521.65 0.0288 0.0151

Saturn 114807-06-04 13:39 G 43653609.93 43653610.07 43653610.20 0.0288 0.0018

Saturn 114807-09-01 02:08 G 43653698.49 43653698.59 43653698.70 0.0289 0.0183

Earth 114809-08-05 05:58 G 43654402.64 43654402.75 43654402.86 0.2662 0.0206

Moon 114809-08-05 06:41 G 43654402.67 43654402.78 43654402.89 0.2660 0.0146 *

Jupiter 114809-09-08 19:53 G 43654437.18 43654437.33 43654437.49 0.0498 0.0232

Earth 114812-02-07 06:56 G 43655318.66 43655318.79 43655318.92 0.2670 0.1246

Moon 114812-02-07 08:22 G 43655318.72 43655318.85 43655318.99 0.2669 0.1043 *

Mars 114814-11-25 04:03 G 43656340.60 43656340.67 43656340.74 0.1860 0.1468

Jupiter 114815-05-16 22:32 G 43656513.31 43656513.44 43656513.57 0.0529 0.0096

Mars 114815-12-21 20:22 G 43656732.20 43656732.35 43656732.50 0.1690 0.0720

Uranus 114816-04-30 23:58 G 43656863.47 43656863.50 43656863.56 0.0138 0.0132

Uranus 114816-07-28 04:03 G 43656951.59 43656951.67 43656951.76 0.0139 0.0111

Uranus 114816-10-24 07:53 G 43657039.73 43657039.83 43657039.94 0.0139 0.0092

Uranus 114817-01-20 11:44 G 43657127.87 43657127.99 43657128.11 0.0139 0.0072

Uranus 114817-04-18 15:34 G 43657216.02 43657216.15 43657216.28 0.0139 0.0052

Uranus 114817-07-15 19:10 G 43657304.17 43657304.30 43657304.44 0.0139 0.0033

Uranus 114817-10-11 23:00 G 43657392.32 43657392.46 43657392.60 0.0139 0.0013

Uranus 114818-01-08 02:36 G 43657480.48 43657480.61 43657480.75 0.0139 0.0008

Uranus 114818-04-06 06:27 G 43657568.63 43657568.77 43657568.90 0.0139 0.0026

Uranus 114818-07-03 10:03 G 43657656.79 43657656.92 43657657.05 0.0139 0.0046

Uranus 114818-09-29 13:39 G 43657744.95 43657745.07 43657745.20 0.0139 0.0065

Uranus 114818-12-26 17:15 G 43657833.12 43657833.22 43657833.34 0.0139 0.0085

Uranus 114819-03-24 21:05 G 43657921.29 43657921.38 43657921.47 0.0139 0.0103

Uranus 114819-06-21 00:41 G 43658009.47 43658009.53 43658009.59 0.0139 0.0123

Jupiter 114821-06-27 19:24 G 43658747.22 43658747.31 43658747.41 0.0497 0.0408

Saturn 114821-06-27 20:51 G 43658747.22 43658747.37 43658747.52 0.0271 0.0150 *

Saturn 114821-09-24 16:17 G 43658836.00 43658836.18 43658836.36 0.0271 0.0034

Jupiter 114821-09-25 22:32 G 43658837.32 43658837.44 43658837.57 0.0500 0.0351

Saturn 114821-12-22 11:58 G 43658924.90 43658925.00 43658925.11 0.0271 0.0219

Moon 114822-08-07 23:58 G 43659153.41 43659153.50 43659153.59 0.2654 0.1561

Earth 114822-08-07 23:58 G 43659153.41 43659153.50 43659153.59 0.2661 0.1509 *

Neptune 114824-07-09 20:22 G 43659855.34 43659855.35 43659855.37 0.0088 0.0088

Neptune 114824-10-05 21:48 G 43659943.36 43659943.41 43659943.47 0.0088 0.0081

Neptune 114825-01-01 23:29 G 43660031.41 43660031.48 43660031.56 0.0088 0.0074

Moon 114825-02-09 12:27 G 43660069.93 43660070.02 43660070.11 0.2665 0.2157

Earth 114825-02-09 12:27 G 43660069.93 43660070.02 43660070.11 0.2672 0.2109 *

Neptune 114825-03-31 00:41 G 43660119.45 43660119.53 43660119.63 0.0088 0.0067

Neptune 114825-06-27 02:22 G 43660207.51 43660207.60 43660207.71 0.0088 0.0060

Neptune 114825-09-23 03:48 G 43660295.56 43660295.66 43660295.78 0.0088 0.0053

Neptune 114825-12-20 05:29 G 43660383.62 43660383.73 43660383.85 0.0088 0.0046

Neptune 114826-03-18 06:56 G 43660471.67 43660471.79 43660471.92 0.0088 0.0039

Mars 114826-03-23 01:24 G 43660476.51 43660476.56 43660476.60 0.1834 0.1672

Neptune 114826-06-14 08:22 G 43660559.73 43660559.85 43660559.99 0.0088 0.0033

Neptune 114826-09-10 10:03 G 43660647.79 43660647.92 43660648.05 0.0088 0.0026

Neptune 114826-12-07 11:29 G 43660735.85 43660735.98 43660736.12 0.0088 0.0019

Jupiter 114827-03-05 01:24 G 43660823.43 43660823.56 43660823.69 0.0530 0.0085

Neptune 114827-03-05 12:56 G 43660823.91 43660824.04 43660824.18 0.0088 0.0012

Neptune 114827-06-01 14:22 G 43660911.96 43660912.10 43660912.24 0.0088 0.0005

Neptune 114827-08-28 15:48 G 43661000.03 43661000.16 43661000.30 0.0088 0.0003

Neptune 114827-11-24 17:15 G 43661088.09 43661088.22 43661088.36 0.0088 0.0009

Neptune 114828-02-20 18:41 G 43661176.15 43661176.28 43661176.42 0.0088 0.0015

Neptune 114828-05-18 20:08 G 43661264.21 43661264.34 43661264.48 0.0088 0.0022

Neptune 114828-08-14 21:34 G 43661352.27   43661352.40   43661352.53 0.0088 0.0029

Neptune 114828-11-10 23:00 G 43661440.34   43661440.46   43661440.59 0.0088 0.0035

Neptune 114829-02-07 00:27 G 43661528.40   43661528.52   43661528.64 0.0088 0.0042

Neptune 114829-05-06 01:53 G 43661616.47   43661616.58   43661616.70 0.0088 0.0049

Neptune 114829-08-02 03:20 G 43661704.54   43661704.64   43661704.75 0.0088 0.0055

Neptune 114829-10-29 04:32 G 43661792.61   43661792.69   43661792.80 0.0088 0.0062

Neptune 114830-01-25 06:12 G 43661880.68   43661880.76   43661880.85 0.0088 0.0068

Neptune 114830-04-23 07:24 G 43661968.75   43661968.81   43661968.89 0.0088 0.0075

Neptune 114830-07-20 08:51 G 43662056.83   43662056.87   43662056.93 0.0088 0.0081

Neptune 114830-10-16 10:17 G 43662144.93   43662144.93   43662144.94 0.0088 0.0088

Jupiter 114833-07-14 21:05 G 43663147.22   43663147.38   43663147.55 0.0499 0.0157

Mars   114835-08-13 10:17 G 43663906.82   43663906.93   43663907.04 0.1843 0.0686

Saturn   114836-07-25 03:20 G 43664253.54   43664253.64   43664253.74 0.0288 0.0191

Saturn   114836-10-21 16:17 G 43664342.04   43664342.18   43664342.32 0.0288 0.0022

Saturn   114837-01-18 05:00 G 43664430.59   43664430.71   43664430.82 0.0289 0.0145

Venus   114837-07-11 22:03 G 43664605.35   43664605.42   43664605.49 0.3704 0.2818

Jupiter 114838-12-22 04:32 G 43665133.58   43665133.69   43665133.81 0.0531 0.0258

Jupiter 114839-03-21 13:24 G 43665222.98   43665223.06   43665223.14 0.0527 0.0415

Earth   114842-08-03 16:46 G 43666454.11   43666454.20   43666454.29 0.2664 0.1562

Moon   114842-08-03 17:15 G 43666454.13   43666454.22   43666454.31 0.2659 0.1473 *

Venus   114843-01-25 14:51 G 43666629.02   43666629.12   43666629.23 0.3700 0.1046

Mars   114845-01-02 19:24 G 43667337.20   43667337.31   43667337.42 0.1852 0.0309

Jupiter 114845-05-02 18:56 G 43667457.11   43667457.29   43667457.46 0.0498 0.0051

Mars   114846-01-29 21:20 G 43667729.24   43667729.39   43667729.53 0.1698 0.0788

Venus   114848-08-10 07:39 G 43668652.71   43668652.82   43668652.92 0.3697 0.0690

Jupiter 114850-10-10 08:08 G 43669443.76   43669443.84   43669443.92 0.0532 0.0427

Saturn   114850-11-14 22:32 G 43669479.31   43669479.44   43669479.57 0.0272 0.0183

Jupiter 114851-01-07 17:15 G 43669533.11   43669533.22   43669533.34 0.0529 0.0258

Saturn   114851-02-11 17:58 G 43669568.07   43669568.25   43669568.43 0.0271 0.0001

Saturn   114851-05-11 13:24 G 43669656.94   43669657.06   43669657.20 0.0271 0.0185

Venus 114854-02-24 00:12 G 43670676.43 43670676.51 43670676.59 0.3693 0.2370

Mars 114854-05-26 04:03 G 43670767.60 43670767.67 43670767.75 0.1860 0.1348

Mars 114855-06-21 20:51 G 43671159.21 43671159.37 43671159.53 0.1690 0.0557

Moon 114855-08-06 10:32 G 43671204.82 43671204.94 43671205.05 0.2657 0.0096

Earth 114855-08-06 11:00 G 43671204.85 43671204.96 43671205.07 0.2662 0.0184 *

Venus 114855-09-09 15:48 G 43671239.03 43671239.16 43671239.29 0.3675 0.1580

Uranus 114857-02-17 04:46 G 43671765.65 43671765.70 43671765.77 0.0139 0.0131

Jupiter 114857-02-18 17:58 G 43671767.10 43671767.25 43671767.40 0.0497 0.0233

Uranus 114857-05-16 11:29 G 43671853.87 43671853.98 43671854.10 0.0139 0.0105

Uranus 114857-08-12 18:12 G 43671942.12 43671942.26 43671942.41 0.0139 0.0080

Uranus 114857-11-09 00:56 G 43672030.38 43672030.54 43672030.71 0.0139 0.0055

Uranus 114858-02-05 07:39 G 43672118.65 43672118.82 43672119.00 0.0139 0.0030

Moon 114858-02-07 12:12 G 43672120.87 43672121.01 43672121.16 0.2665 0.0702

Earth 114858-02-07 13:24 G 43672120.91 43672121.06 43672121.21 0.2670 0.0591 *

Uranus 114858-05-04 14:36 G 43672206.93 43672207.11 43672207.29 0.0139 0.0004

Uranus 114858-07-31 21:20 G 43672295.21 43672295.39 43672295.57 0.0139 0.0022

Uranus 114858-10-28 04:03 G 43672383.51 43672383.67 43672383.85 0.0139 0.0048

Uranus 114859-01-24 11:00 G 43672471.81 43672471.96 43672472.12 0.0139 0.0074

Uranus 114859-04-22 17:58 G 43672560.13 43672560.25 43672560.38 0.0139 0.0100

Uranus 114859-07-20 00:56 G 43672648.47 43672648.54 43672648.62 0.0139 0.0126

Venus 114861-03-25 20:51 G 43673263.26 43673263.37 43673263.48 0.3680 0.2437

Jupiter 114862-10-26 21:05 G 43673843.25 43673843.38 43673843.51 0.0529 0.0098

Mars 114865-09-21 01:24 G 43674903.54 43674903.56 43674903.58 0.1834 0.1789

Saturn 114865-12-12 04:17 G 43674985.62 43674985.68 43674985.75 0.0287 0.0251

Saturn 114866-03-10 17:00 G 43675074.09 43675074.21 43675074.35 0.0288 0.0083

Saturn 114866-06-07 05:44 G 43675162.62 43675162.74 43675162.88 0.0288 0.0086

Saturn 114866-09-03 18:27 G 43675251.20 43675251.27 43675251.34 0.0289 0.0250

Moon 114868-08-08 04:17 G 43675955.60 43675955.68 43675955.76 0.2664 0.1791

Earth 114868-08-08 04:46 G 43675955.63 43675955.70 43675955.78 0.2660 0.1873 *

Jupiter 114868-12-07 17:15 G 43676077.13 43676077.22 43676077.32 0.0497 0.0413

Jupiter 114869-03-07 20:08 G 43676167.22 43676167.34 43676167.47 0.0500 0.0344

Pluto 114869-03-23 04:03 G 43676182.60 43676182.67 43676182.79 0.0059 0.0053

Pluto 114869-06-19 05:15 G 43676270.62 43676270.72 43676270.89 0.0059 0.0044

Pluto 114869-09-15 07:10 G 43676358.65 43676358.80 43676358.97 0.0060 0.0034

Pluto 114869-12-12 08:36 G 43676446.69 43676446.86 43676447.05 0.0060 0.0025

Pluto 114870-03-10 10:03 G 43676534.73 43676534.92 43676535.12 0.0060 0.0016

Pluto 114870-06-06 11:29 G 43676622.79 43676622.98 43676623.18 0.0060 0.0006

Pluto 114870-09-02 12:56 G 43676710.84 43676711.04 43676711.24 0.0060 0.0003

Pluto 114870-11-29 14:22 G 43676798.91 43676799.10 43676799.29 0.0060 0.0012

Moon 114871-02-10 17:15 G 43676872.17 43676872.22 43676872.28 0.2673 0.2466

Pluto 114871-02-25 15:20 G 43676886.97 43676887.14 43676887.34 0.0060 0.0022

Pluto 114871-05-24 16:46 G 43676975.05 43676975.20 43676975.39 0.0060 0.0031

Pluto 114871-08-20 18:27 G 43677063.13 43677063.27 43677063.42 0.0060 0.0040

Pluto 114871-11-16 19:24 G 43677151.23 43677151.31 43677151.45 0.0060 0.0050

Pluto 114872-02-12 20:51 G 43677239.36 43677239.37 43677239.43 0.0060 0.0060

Jupiter 114874-08-15 00:41 G 43678153.40 43678153.53 43678153.66 0.0530 0.0069

Mars 114875-02-11 10:17 G 43678333.83 43678333.93 43678334.04 0.1843 0.0812

Saturn 114880-04-02 20:36 G 43680211.29 43680211.36 43680211.42 0.0272 0.0250

Saturn 114880-06-30 15:48 G 43680299.99 43680300.16 43680300.34 0.0271 0.0068

Saturn 114880-09-27 11:29 G 43680388.82 43680388.98 43680389.14 0.0271 0.0116

Jupiter 114880-12-24 19:24 G 43680477.14 43680477.31 43680477.47 0.0499 0.0159

Mars 114884-07-03 19:24 G 43681764.19 43681764.31 43681764.42 0.1851 0.0196

Mars 114885-07-30 21:48 G 43682156.28 43682156.41 43682156.55 0.1698 0.0965

Jupiter 114886-06-03 03:20 G 43682463.53 43682463.64 43682463.76 0.0531 0.0251

Jupiter 114886-08-31 12:12 G 43682552.93 43682553.01 43682553.09 0.0527 0.0421

Moon 114888-08-03 20:51 G 43683256.28 43683256.37 43683256.47 0.2663 0.1371

Earth 114888-08-03 21:48 G 43683256.31 43683256.41 43683256.51 0.2663 0.1196 *

Jupiter 114892-10-12 18:12 G 43684787.09 43684787.26 43684787.43 0.0498 0.0030

Mars 114893-11-24 04:03 G 43685194.59 43685194.67 43685194.76 0.1860 0.1232

Venus 114894-02-15 19:53 G 43685278.25 43685278.33 43685278.42 0.3703 0.2231

Mars 114894-12-20 21:34 G 43685586.24 43685586.40 43685586.57 0.1690 0.0375

Saturn 114895-07-28 19:24 G 43685806.19 43685806.31 43685806.43 0.0288 0.0127

Saturn 114895-10-25 08:08 G 43685894.71 43685894.84 43685894.98 0.0288 0.0041

Saturn 114896-01-21 20:36 G 43685983.28 43685983.36 43685983.46 0.0289 0.0208

Jupiter 114898-03-22 06:27 G 43686773.70 43686773.77 43686773.85 0.0532 0.0426

Jupiter 114898-06-19 15:48 G 43686863.05 43686863.16 43686863.27 0.0528 0.0257

Venus 114899-09-01 12:41 G 43687301.93 43687302.03 43687302.14 0.3699 0.0470

Uranus 114900-05-22 07:53 G 43687564.77 43687564.83 43687564.89 0.0138 0.0125

Uranus 114900-08-18 11:44 G 43687652.90 43687652.99 43687653.08 0.0138 0.0105

Uranus 114900-11-14 15:20 G 43687741.04 43687741.14 43687741.26 0.0139 0.0085

Uranus 114901-02-10 19:10 G 43687829.18 43687829.30 43687829.43 0.0139 0.0066

Uranus 114901-05-09 23:00 G 43687917.33 43687917.46 43687917.59 0.0139 0.0046

Uranus 114901-08-06 02:36 G 43688005.48 43688005.61 43688005.75 0.0139 0.0027

Moon 114901-08-07 15:34 G 43688007.04 43688007.15 43688007.25 0.2667 0.0530

Earth 114901-08-07 15:48 G 43688007.05 43688007.16 43688007.27 0.2662 0.0533 *

Uranus 114901-11-02 06:27 G 43688093.63 43688093.77 43688093.91 0.0139 0.0007

Uranus 114902-01-29 10:17 G 43688181.79 43688181.93 43688182.06 0.0139 0.0013

Uranus 114902-04-27 13:53 G 43688269.95 43688270.08 43688270.21 0.0139 0.0032

Uranus 114902-07-24 17:29 G 43688358.11 43688358.23 43688358.36 0.0139 0.0052

Uranus 114902-10-20 21:05 G 43688446.27 43688446.38 43688446.50 0.0139 0.0071

Uranus 114903-01-17 00:41 G 43688534.43 43688534.53 43688534.64 0.0139 0.0091

Uranus 114903-04-15 04:17 G 43688622.61 43688622.68 43688622.77 0.0139 0.0110

Uranus 114903-07-12 08:08 G 43688710.79 43688710.84 43688710.89 0.0139 0.0129

Moon 114904-02-09 18:41 G 43688923.13 43688923.28 43688923.43 0.2675 0.0030

Earth 114904-02-09 19:39 G 43688923.17 43688923.32 43688923.47 0.2670 0.0071 *

Mars 114904-05-12 21:48 G 43689016.38 43689016.41 43689016.43 0.1683 0.1663

Jupiter 114904-08-01 16:17 G 43689097.02 43689097.18 43689097.33 0.0497 0.0231

Venus 114905-03-18 05:15 G 43689325.62 43689325.72 43689325.82 0.3696 0.1253

Neptune 114908-09-05 00:41 G 43690592.52 43690592.53 43690592.56 0.0089 0.0089

Neptune 114908-12-02 03:48 G 43690680.59 43690680.66 43690680.75 0.0089 0.0080

Neptune 114909-02-28 06:56 G 43690768.69 43690768.79 43690768.91 0.0089 0.0071

Neptune 114909-05-27 10:03 G 43690856.80 43690856.92 43690857.07 0.0089 0.0062

Neptune 114909-08-23 13:10 G 43690944.92 43690945.05 43690945.21 0.0089 0.0053

Saturn 114909-11-18 17:15 G 43691032.06 43691032.22 43691032.39 0.0272 0.0104

Neptune 114909-11-19 16:32 G 43691033.04 43691033.19 43691033.36 0.0089 0.0043

Saturn 114910-02-15 12:56 G 43691120.87 43691121.04 43691121.21 0.0271 0.0080

Neptune 114910-02-15 19:39 G 43691121.16 43691121.32 43691121.50 0.0089 0.0034 *

Jupiter 114910-04-08 19:39 G 43691173.19 43691173.32 43691173.45 0.0530 0.0096

Neptune 114910-05-14 23:00 G 43691209.29 43691209.46 43691209.64 0.0089 0.0025

Saturn 114910-05-15 08:36 G 43691209.83 43691209.86 43691209.90 0.0271 0.0266

Neptune 114910-08-11 02:08 G 43691297.41 43691297.59 43691297.78 0.0089 0.0016

Venus 114910-10-01 21:48 G 43691349.35 43691349.41 43691349.47 0.3692 0.2906

Neptune 114910-11-07 05:29 G 43691385.55 43691385.73 43691385.91 0.0089 0.0006

Neptune 114911-02-03 08:36 G 43691473.68 43691473.86 43691474.05 0.0089 0.0004

Neptune 114911-05-02 11:58 G 43691561.82 43691562.00 43691562.18 0.0089 0.0013

Neptune 114911-07-29 15:05 G 43691649.96 43691650.13 43691650.31 0.0089 0.0022

Neptune 114911-10-25 18:27 G 43691738.10 43691738.27 43691738.44 0.0089 0.0031

Neptune 114912-01-21 21:20 G 43691826.24 43691826.39 43691826.57 0.0089 0.0042

Venus 114912-04-16 16:46 G 43691912.06 43691912.20 43691912.35 0.3676 0.0369

Neptune 114912-04-19 00:41 G 43691914.39 43691914.53 43691914.70 0.0089 0.0051

Neptune 114912-07-16 03:48 G 43692002.54 43692002.66 43692002.82 0.0089 0.0061

Neptune 114912-10-12 07:24 G 43692090.70 43692090.81 43692090.93 0.0089 0.0069

Neptune 114913-01-08 10:32 G 43692178.87 43692178.94 43692179.04 0.0089 0.0079

Neptune 114913-04-06 13:53 G 43692267.07 43692267.08 43692267.12 0.0089 0.0089

Earth 114914-08-10 09:48 G 43692757.85 43692757.91 43692757.97 0.2660 0.2227

Moon 114914-08-10 10:17 G 43692757.87 43692757.93 43692757.98 0.2665 0.2262 *

Mars 114914-08-13 10:32 G 43692760.84 43692760.94 43692761.04 0.1843 0.0938

Jupiter 114916-05-20 15:34 G 43693407.05 43693407.15 43693407.24 0.0496 0.0410

Jupiter 114916-08-18 18:12 G 43693497.14 43693497.26 43693497.39 0.0499 0.0345

Moon 114921-08-03 07:39 G 43695307.81 43695307.82 43695307.83 0.2668 0.2636

Earth 114921-08-03 08:22 G 43695307.83 43695307.85 43695307.87 0.2665 0.2585 *

Jupiter 114922-01-25 23:15 G 43695483.34 43695483.47 43695483.61 0.0530 0.0068

Mars 114924-01-03 19:24 G 43696191.19 43696191.31 43696191.42 0.1851 0.0080

Saturn 114924-12-15 20:22 G 43696538.24 43696538.35 43696538.45 0.0287 0.0185

Mars 114925-01-29 22:32 G 43696583.32 43696583.44 43696583.56 0.1698 0.1136

Saturn 114925-03-14 09:05 G 43696626.75 43696626.88 43696627.02 0.0288 0.0018

Saturn 114925-06-10 21:48 G 43696715.29 43696715.41 43696715.52 0.0288 0.0148

Jupiter 114928-06-06 17:15 G 43697807.06 43697807.22 43697807.39 0.0499 0.0156

Mars 114933-05-26 04:03 G 43699621.58 43699621.67 43699621.76 0.1859 0.1109

Jupiter 114933-11-14 02:51 G 43699793.50 43699793.62 43699793.74 0.0531 0.0234

Jupiter 114934-02-11 11:29 G 43699882.92 43699882.98 43699883.06 0.0527 0.0439

Mars 114934-06-21 22:32 G 43700013.27 43700013.44 43700013.60 0.1691 0.0199

Earth 114934-08-06 02:36 G 43700058.50 43700058.61 43700058.72 0.2663 0.0830

Moon 114934-08-06 02:36 G 43700058.51 43700058.61 43700058.72 0.2670 0.0883 *

Earth 114937-02-06 20:51 G 43700974.34 43700974.37 43700974.41 0.2669 0.2565

Moon 114937-02-06 20:51 G 43700974.35 43700974.37 43700974.40 0.2676 0.2614 *

Saturn 114939-04-07 14:51 G 43701763.99 43701764.12 43701764.26 0.0272 0.0175

Saturn 114939-07-05 10:32 G 43701852.76 43701852.94 43701853.11 0.0271 0.0010

Saturn 114939-10-02 05:58 G 43701941.63 43701941.75 43701941.88 0.0271 0.0193

Jupiter 114940-03-25 16:32 G 43702117.02 43702117.19 43702117.37 0.0498 0.0027

Uranus 114941-03-10 12:27 G 43702466.94 43702467.02 43702467.11 0.0139 0.0123

Uranus 114941-06-06 19:10 G 43702555.17 43702555.30 43702555.43 0.0139 0.0098

Uranus 114941-09-03 01:39 G 43702643.43 43702643.57 43702643.73 0.0139 0.0073

Uranus 114941-11-30 08:22 G 43702731.69 43702731.85 43702732.03 0.0139 0.0047

Uranus 114942-02-26 15:20 G 43702819.96 43702820.14 43702820.32 0.0139 0.0022

Uranus 114942-05-25 22:03 G 43702908.24 43702908.42 43702908.60 0.0139 0.0004

Uranus 114942-08-22 04:46 G 43702996.53 43702996.70 43702996.88 0.0139 0.0030

Uranus 114942-11-18 11:29 G 43703084.82 43703084.98 43703085.16 0.0139 0.0056

Uranus 114943-02-14 18:27 G 43703173.13 43703173.27 43703173.43 0.0139 0.0082

Uranus 114943-05-14 01:10 G 43703261.45 43703261.55 43703261.68 0.0139 0.0108

Uranus 114943-08-10 08:08 G 43703349.81 43703349.84 43703349.90 0.0139 0.0134

Mars 114943-11-11 22:17 G 43703443.36 43703443.43 43703443.51 0.1683 0.1495

Venus 114945-03-10 00:56 G 43703927.50 43703927.54 43703927.57 0.3706 0.3450

Jupiter 114945-09-02 05:44 G 43704103.65 43704103.74 43704103.82 0.0531 0.0416

Jupiter 114945-11-30 14:51 G 43704193.01 43704193.12 43704193.23 0.0528 0.0267

Earth 114947-08-08 20:36 G 43704809.26 43704809.36 43704809.47 0.2661 0.0889

Moon 114947-08-08 21:20 G 43704809.29 43704809.39 43704809.49 0.2663 0.1084 *

Earth 114950-02-10 02:08 G 43705725.44 43705725.59 43705725.73 0.2671 0.0716

Moon 114950-02-10 03:34 G 43705725.51 43705725.65 43705725.79 0.2672 0.1007 *

Venus 114950-09-23 17:44 G 43705951.15 43705951.24 43705951.34 0.3702 0.1649

Jupiter 114952-01-12 15:34 G 43706427.00 43706427.15 43706427.31 0.0498 0.0211

Mars 114954-02-11 10:17 G 43707187.84 43707187.93 43707188.03 0.1842 0.1045

Saturn 114954-05-04 21:48 G 43707270.34 43707270.41 43707270.49 0.0288 0.0237

Saturn 114954-08-01 10:46 G 43707358.82 43707358.95 43707359.09 0.0288 0.0069

Saturn 114954-10-28 23:29 G 43707447.36 43707447.48 43707447.61 0.0288 0.0100

Saturn 114955-01-25 12:12 G 43707535.96 43707536.01 43707536.06 0.0289 0.0264

Venus 114956-04-08 10:32 G 43707974.83 43707974.94 43707975.04 0.3699 0.0120

Jupiter 114957-09-18 18:12 G 43708503.13 43708503.26 43708503.39 0.0529 0.0101

Earth 114960-08-10 14:36 G 43709560.09 43709560.11 43709560.13 0.2660 0.2579

Moon 114960-08-10 14:51 G 43709560.09 43709560.12 43709560.15 0.2653 0.2557 *

Venus 114961-10-23 03:05 G 43709998.54 43709998.63 43709998.72 0.3695 0.1794

Venus 114963-05-08 13:24 G 43710560.98 43710561.06 43710561.14 0.3673 0.3012

Mars 114963-07-04 19:24 G 43710618.19 43710618.31 43710618.42 0.1851 0.0054

Jupiter 114963-10-31 14:08 G 43710736.99 43710737.09 43710737.19 0.0496 0.0404

Jupiter 114964-01-29 16:46 G 43710827.08 43710827.20 43710827.33 0.0499 0.0349

Mars 114964-07-30 23:29 G 43711010.37 43711010.48 43711010.58 0.1698 0.1326

Pluto 114965-03-15 11:29 G 43711237.97 43711237.98 43711238.01 0.0085 0.0084

Pluto 114965-06-11 12:41 G 43711325.96 43711326.03 43711326.12 0.0085 0.0066

Pluto 114965-09-07 14:08 G 43711413.99 43711414.09 43711414.20 0.0085 0.0048

Pluto 114965-12-04 15:20 G 43711502.02 43711502.14 43711502.27 0.0085 0.0030

Pluto 114966-03-02 16:32 G 43711590.06 43711590.19 43711590.32 0.0085 0.0012

Pluto 114966-05-29 17:44 G 43711678.11 43711678.24 43711678.38 0.0085 0.0006

Pluto 114966-08-25 18:56 G 43711766.17 43711766.29 43711766.42 0.0084 0.0023

Pluto 114966-11-21 20:08 G 43711854.23 43711854.34 43711854.46 0.0084 0.0041

Pluto 114967-02-17 21:05 G 43711942.30 43711942.38 43711942.49 0.0084 0.0058

Venus 114967-05-08 19:24 G 43712022.28 43712022.31 43712022.35 0.3691 0.3431

Pluto 114967-05-16 22:17 G 43712030.39 43712030.43 43712030.50 0.0084 0.0076

Earth 114967-08-04 13:10 G 43712109.99 43712110.05 43712110.11 0.2665 0.2212

Moon 114967-08-04 13:39 G 43712110.01 43712110.07 43712110.14 0.2670 0.2130 *

Saturn 114968-08-24 16:03 G 43712496.07 43712496.17 43712496.29 0.0272 0.0213

Saturn 114968-11-21 11:44 G 43712584.81 43712584.99 43712585.17 0.0272 0.0029

Venus 114968-11-21 17:44 G 43712585.10 43712585.24 43712585.38 0.3678 0.0859 *

Saturn 114969-02-18 07:24 G 43712673.66 43712673.81 43712673.95 0.0272 0.0156

Jupiter 114969-07-07 21:48 G 43712813.28 43712813.41 43712813.54 0.0531 0.0067

Mars 114972-11-24 04:17 G 43714048.58 43714048.68 43714048.77 0.1859 0.0981

Mars 114973-12-20 23:00 G 43714440.29 43714440.46 43714440.62 0.1691 0.0035

Jupiter 114975-11-17 15:34 G 43715136.99 43715137.15 43715137.32 0.0498 0.0161

Earth 114980-08-06 07:24 G 43716860.70 43716860.81 43716860.92 0.2663 0.0466

Moon 114980-08-06 08:08 G 43716860.73 43716860.84 43716860.95 0.2659 0.0367 *

Jupiter 114981-04-26 01:24 G 43717123.44 43717123.56 43717123.68 0.0531 0.0231

Jupiter 114981-07-24 10:17 G 43717212.86 43717212.93 43717213.00 0.0528 0.0442

Earth 114983-02-08 03:20 G 43717776.53 43717776.64 43717776.74 0.2669 0.1936

Moon 114983-02-08 04:32 G 43717776.57 43717776.69 43717776.81 0.2666 0.1660 *

Mars 114983-05-12 23:00 G 43717870.36 43717870.46 43717870.57 0.1684 0.1319

Saturn 114983-12-19 11:58 G 43718090.88 43718091.00 43718091.13 0.0287 0.0124

Uranus 114984-03-15 11:29 G 43718177.98 43718177.98 43718177.99 0.0138 0.0138

Saturn 114984-03-17 00:41 G 43718179.40 43718179.53 43718179.67 0.0288 0.0044

Uranus 114984-06-11 15:05 G 43718266.07 43718266.13 43718266.21 0.0138 0.0119

Saturn 114984-06-13 13:24 G 43718267.97 43718268.06 43718268.15 0.0288 0.0208

Uranus 114984-09-07 19:10 G 43718354.21 43718354.30 43718354.40 0.0138 0.0098

Uranus 114984-12-04 23:00 G 43718442.35 43718442.46 43718442.58 0.0139 0.0079

Uranus 114985-03-03 02:51 G 43718530.49 43718530.62 43718530.74 0.0139 0.0059

Uranus 114985-05-30 06:27 G 43718618.64 43718618.77 43718618.91 0.0139 0.0040

Uranus 114985-08-26 10:17 G 43718706.79 43718706.93 43718707.07 0.0139 0.0020

Uranus 114985-11-22 14:08 G 43718794.95 43718795.09 43718795.23 0.0139 0.0004

Uranus 114986-02-18 17:44 G 43718883.10 43718883.24 43718883.38 0.0139 0.0019

Uranus 114986-05-17 21:20 G 43718971.26 43718971.39 43718971.53 0.0139 0.0039

Uranus 114986-08-14 00:56 G 43719059.42 43719059.54 43719059.67 0.0139 0.0058

Uranus 114986-11-10 04:46 G 43719147.59 43719147.70 43719147.81 0.0139 0.0077

Uranus 114987-02-06 08:22 G 43719235.75 43719235.85 43719235.95 0.0139 0.0096

Uranus 114987-05-05 11:58 G 43719323.93 43719324.00 43719324.08 0.0139 0.0116

Uranus 114987-08-01 15:34 G 43719412.12 43719412.15 43719412.19 0.0139 0.0135

Jupiter 114987-09-05 14:36 G 43719446.94 43719447.11 43719447.29 0.0498 0.0028

Neptune 114989-04-06 19:24 G 43720026.29 43720026.31 43720026.36 0.0088 0.0086

Neptune 114989-07-03 21:05 G 43720114.32 43720114.38 43720114.45 0.0088 0.0078

Neptune 114989-09-29 22:32 G 43720202.37 43720202.44 43720202.53 0.0088 0.0072

Neptune 114989-12-27 00:12 G 43720290.42 43720290.51 43720290.61 0.0088 0.0065

Neptune 114990-03-25 01:53 G 43720378.47 43720378.58 43720378.68 0.0088 0.0058

Neptune 114990-06-21 03:05 G 43720466.53 43720466.63 43720466.75 0.0088 0.0051

Neptune 114990-09-17 04:32 G 43720554.58 43720554.69 43720554.82 0.0088 0.0044

Neptune 114990-12-14 06:12 G 43720642.64 43720642.76 43720642.89 0.0088 0.0037

Neptune 114991-03-12 07:39 G 43720730.70 43720730.82 43720730.96 0.0088 0.0030

Neptune 114991-06-08 09:20 G 43720818.75 43720818.89 43720819.02 0.0088 0.0023

Neptune 114991-09-04 10:46 G 43720906.81 43720906.95 43720907.09 0.0088 0.0017

Neptune 114991-12-01 12:12 G 43720994.87 43720995.01 43720995.15 0.0088 0.0010

Neptune 114992-02-27 13:39 G 43721082.93 43721083.07 43721083.21 0.0088 0.0003

Neptune 114992-05-25 15:05 G 43721171.00 43721171.13 43721171.27 0.0088 0.0004

Neptune 114992-08-21 16:32 G 43721259.06 43721259.19 43721259.33 0.0088 0.0011

Neptune 114992-11-17 17:58 G 43721347.12 43721347.25 43721347.39 0.0088 0.0017

Jupiter 114993-02-12 05:00 G 43721433.62 43721433.71 43721433.79 0.0532 0.0399

Neptune 114993-02-13 19:24 G 43721435.18 43721435.31 43721435.45 0.0088 0.0024

Jupiter 114993-05-12 14:08 G 43721522.98 43721523.09 43721523.20 0.0528 0.0284

Neptune 114993-05-12 20:51 G 43721523.25 43721523.37 43721523.50 0.0088 0.0031

Neptune 114993-08-08 22:17 G 43721611.31 43721611.43 43721611.56 0.0088 0.0037

Moon 114993-08-09 01:24 G 43721611.46 43721611.56 43721611.66 0.2655 0.1238 *

Earth 114993-08-09 01:24 G 43721611.46 43721611.56 43721611.66 0.2661 0.1249 *

Mars 114993-08-12 10:17 G 43721614.84 43721614.93 43721615.02 0.1842 0.1166

Neptune 114993-11-04 23:44 G 43721699.38 43721699.49 43721699.61 0.0088 0.0044

Neptune 114994-02-01 00:56 G 43721787.44 43721787.54 43721787.67 0.0088 0.0051

Neptune 114994-04-30 02:36 G 43721875.51 43721875.61 43721875.72 0.0088 0.0057

Neptune 114994-07-27 03:48 G 43721963.58 43721963.66 43721963.77 0.0088 0.0064

Neptune 114994-10-23 05:29 G 43722051.65 43722051.73 43722051.81 0.0088 0.0070

Neptune 114995-01-19 06:41 G 43722139.73 43722139.78 43722139.85 0.0088 0.0077

Neptune 114995-04-17 08:22 G 43722227.81 43722227.85 43722227.89 0.0088 0.0083

Earth 114996-02-11 08:22 G 43722527.72 43722527.85 43722527.98 0.2671 0.1377

Moon 114996-02-11 08:36 G 43722527.73 43722527.86 43722528.00 0.2665 0.1317 *

Saturn 114998-04-10 08:51 G 43723316.71 43723316.87 43723317.03 0.0272 0.0105

Saturn 114998-07-08 04:17 G 43723405.51 43723405.68 43723405.86 0.0271 0.0080

Saturn 114998-10-05 00:12 G 43723494.48 43723494.51 43723494.54 0.0271 0.0266

Jupiter 114999-06-24 14:08 G 43723756.93 43723757.09 43723757.25 0.0497 0.0204

116TH MILLENNIUM CE

This is a list of transits of Mercury in the 116th millennium CE.

FROM MAX- C START MAX END SUNRAD DEPTH S TRANSIT

Venus 115001-10-15 22:46 G 43724600.38 43724600.45 43724600.51 0.3705 0.2857

Mars 115003-01-03 19:24 G 43725045.19 43725045.31 43725045.42 0.1850 0.0171

Mars 115004-01-31 00:12 G 43725437.43 43725437.51 43725437.58 0.1699 0.1508

Jupiter 115005-03-01 17:15 G 43725833.09 43725833.22 43725833.35 0.0529 0.0112

Venus 115007-05-01 15:34 G 43726624.05 43726624.15 43726624.25 0.3701 0.1088

Jupiter 115011-04-13 13:24 G 43728066.96 43728067.06 43728067.17 0.0497 0.0384

Jupiter 115011-07-12 16:17 G 43728157.07 43728157.18 43728157.30 0.0500 0.0373

Mars 115012-05-26 04:03 G 43728475.57 43728475.67 43728475.77 0.1859 0.0870

Venus 115012-11-14 08:08 G 43728647.74 43728647.84 43728647.95 0.3698 0.0662

Saturn 115013-05-08 13:24 G 43728822.96 43728823.06 43728823.17 0.0287 0.0178

Mars 115013-06-21 23:44 G 43728867.33 43728867.49 43728867.66 0.1691 0.0168

Saturn 115013-08-05 02:22 G 43728911.46 43728911.60 43728911.74 0.0288 0.0010

Earth 115013-08-05 18:12 G 43728912.18 43728912.26 43728912.34 0.2664 0.1842

Moon 115013-08-05 18:27 G 43728912.19 43728912.27 43728912.35 0.2658 0.1829 *

Saturn 115013-11-01 14:51 G 43729000.01 43729000.12 43729000.24 0.0288 0.0156

Jupiter 115016-12-18 20:36 G 43730143.23 43730143.36 43730143.50 0.0530 0.0060

Venus 115018-05-31 00:41 G 43730671.45 43730671.53 43730671.61 0.3694 0.2326

Venus 115019-12-14 14:08 G 43731233.96 43731234.09 43731234.21 0.3674 0.1854

Mars 115022-11-11 23:44 G 43732297.37 43732297.49 43732297.61 0.1683 0.1148

Jupiter 115023-04-30 14:22 G 43732466.93 43732467.10 43732467.26 0.0498 0.0168

Uranus 115025-03-31 19:10 G 43733168.22 43733168.30 43733168.40 0.0139 0.0117

Uranus 115025-06-28 01:53 G 43733256.45 43733256.58 43733256.72 0.0139 0.0092

Venus 115025-06-29 18:56 G 43733258.17 43733258.29 43733258.40 0.3679 0.2118

Uranus 115025-09-24 08:22 G 43733344.71 43733344.85 43733345.02 0.0139 0.0068

Uranus 115025-12-21 15:20 G 43733432.97 43733433.14 43733433.31 0.0139 0.0042

Uranus 115026-03-19 22:03 G 43733521.24 43733521.42 43733521.60 0.0139 0.0016

Uranus 115026-06-16 05:00 G 43733609.53 43733609.71 43733609.89 0.0139 0.0010

Moon 115026-08-08 11:58 G 43733662.88 43733663.00 43733663.11 0.2658 0.0161

Earth 115026-08-08 12:27 G 43733662.90 43733663.02 43733663.13 0.2663 0.0148 *

Uranus 115026-09-12 11:44 G 43733697.82 43733697.99 43733698.17 0.0139 0.0035

Uranus 115026-12-09 18:27 G 43733786.11 43733786.27 43733786.44 0.0139 0.0061

Uranus 115027-03-08 01:10 G 43733874.42 43733874.55 43733874.70 0.0139 0.0087

Uranus 115027-06-04 08:08 G 43733962.75 43733962.84 43733962.96 0.0139 0.0113

Saturn 115027-08-29 09:48 G 43734048.77 43734048.91 43734049.07 0.0272 0.0144

Uranus 115027-08-31 15:20 G 43734051.14 43734051.14 43734051.14 0.0139 0.0139

Saturn 115027-11-26 05:29 G 43734137.55 43734137.73 43734137.91 0.0272 0.0041

Saturn 115028-02-23 01:10 G 43734226.46 43734226.55 43734226.65 0.0272 0.0227

Jupiter 115028-10-06 23:58 G 43734453.38 43734453.50 43734453.62 0.0532 0.0231

Jupiter 115029-01-04 08:51 G 43734542.80 43734542.87 43734542.94 0.0528 0.0443

Moon 115029-02-09 08:36 G 43734578.73 43734578.86 43734579.00 0.2664 0.1316

Earth 115029-02-09 09:34 G 43734578.77 43734578.90 43734579.04 0.2670 0.1283 *

Mars 115033-02-11 10:32 G 43736041.86 43736041.94 43736042.02 0.1842 0.1297

Jupiter 115035-02-16 13:24 G 43736776.88 43736777.06 43736777.23 0.0498 0.0019

Moon 115039-08-11 05:44 G 43738413.64 43738413.74 43738413.83 0.2664 0.1442

Earth 115039-08-11 06:12 G 43738413.68 43738413.76 43738413.85 0.2661 0.1616 *

Jupiter 115040-07-26 03:34 G 43738763.56 43738763.65 43738763.74 0.0532 0.0397

Jupiter 115040-10-23 12:56 G 43738852.93 43738853.04 43738853.15 0.0529 0.0287

Moon 115042-02-12 13:24 G 43739329.95 43739330.06 43739330.18 0.2674 0.1703

Earth 115042-02-12 14:51 G 43739330.02 43739330.12 43739330.22 0.2671 0.2040 *

Mars 115042-07-04 19:24 G 43739472.19 43739472.31 43739472.42 0.1850 0.0290

Saturn 115042-09-25 14:51 G 43739555.04 43739555.12 43739555.20 0.0287 0.0232

Saturn 115042-12-23 03:34 G 43739643.52 43739643.65 43739643.79 0.0287 0.0065

Saturn 115043-03-21 16:17 G 43739732.06 43739732.18 43739732.31 0.0287 0.0101

Saturn 115043-06-18 04:46 G 43739820.66 43739820.70 43739820.76 0.0288 0.0265

Mars 115043-08-01 00:41 G 43739864.51 43739864.53 43739864.55 0.1699 0.1681

Jupiter 115046-12-05 12:27 G 43741086.86 43741087.02 43741087.18 0.0497 0.0202

Mars 115051-11-25 04:03 G 43742902.57 43742902.67 43742902.78 0.1859 0.0741

Jupiter 115052-08-11 16:46 G 43743163.07 43743163.20 43743163.33 0.0529 0.0128

Mars 115052-12-21 00:41 G 43743294.36 43743294.53 43743294.69 0.1691 0.0344

Saturn 115057-01-15 06:56 G 43744780.70 43744780.79 43744780.90 0.0272 0.0219

Saturn 115057-04-14 02:36 G 43744869.43 43744869.61 43744869.78 0.0272 0.0036

Saturn 115057-07-11 22:03 G 43744958.28 43744958.42 43744958.58 0.0272 0.0150

Venus 115058-05-22 20:22 G 43745273.27 43745273.35 43745273.44 0.3704 0.2283

Jupiter 115058-09-23 11:58 G 43745396.90 43745397.00 43745397.12 0.0497 0.0378

Jupiter 115058-12-22 15:05 G 43745487.01 43745487.13 43745487.24 0.0500 0.0379

Moon 115059-08-06 22:17 G 43745714.35 43745714.43 43745714.52 0.2662 0.1654

Earth 115059-08-06 23:00 G 43745714.37 43745714.46 43745714.56 0.2664 0.1470 *

Mars 115061-04-16 12:41 G 43746333.01 43746333.03 43746333.05 0.1867 0.1812

Mars 115062-05-13 00:27 G 43746724.39 43746724.52 43746724.66 0.1684 0.0973

Venus 115063-12-06 13:10 G 43747296.95 43747297.05 43747297.16 0.3700 0.0530

Jupiter 115064-05-30 19:53 G 43747473.20 43747473.33 43747473.46 0.0530 0.0046

Uranus 115068-04-05 18:56 G 43748879.26 43748879.29 43748879.34 0.0138 0.0131

Uranus 115068-07-02 22:46 G 43748967.37 43748967.45 43748967.54 0.0138 0.0112

Uranus 115068-09-29 02:22 G 43749055.51 43749055.60 43749055.72 0.0138 0.0093

Uranus 115068-12-26 06:27 G 43749143.65 43749143.77 43749143.89 0.0139 0.0072

Uranus 115069-03-24 10:17 G 43749231.80 43749231.93 43749232.06 0.0139 0.0053

Uranus 115069-06-20 13:53 G 43749319.95 43749320.08 43749320.22 0.0139 0.0034

Venus 115069-06-21 05:58 G 43749320.65 43749320.75 43749320.85 0.3697 0.1201

Uranus 115069-09-16 17:44 G 43749408.10 43749408.24 43749408.38 0.0139 0.0014

Uranus 115069-12-13 21:34 G 43749496.26 43749496.40 43749496.54 0.0139 0.0006

Uranus 115070-03-12 01:10 G 43749584.42 43749584.55 43749584.69 0.0139 0.0026

Uranus 115070-06-08 04:46 G 43749672.58 43749672.70 43749672.84 0.0139 0.0045

Uranus 115070-09-04 08:36 G 43749760.74 43749760.86 43749760.98 0.0139 0.0064

Jupiter 115070-10-10 13:53 G 43749796.92 43749797.08 43749797.24 0.0499 0.0190

Uranus 115070-12-01 12:12 G 43749848.90 43749849.01 43749849.12 0.0139 0.0083

Uranus 115071-02-27 15:48 G 43749937.07 43749937.16 43749937.26 0.0139 0.0103

Uranus 115071-05-26 19:24 G 43750025.25 43750025.31 43750025.38 0.0139 0.0122

Saturn 115072-05-11 04:46 G 43750375.58 43750375.70 43750375.83 0.0287 0.0122

Saturn 115072-08-07 17:44 G 43750464.10 43750464.24 43750464.37 0.0288 0.0046

Moon 115072-08-08 16:46 G 43750465.09 43750465.20 43750465.31 0.2669 0.0272

Earth 115072-08-08 17:15 G 43750465.11 43750465.22 43750465.33 0.2662 0.0272 *

Mars 115072-08-12 10:17 G 43750468.86 43750468.93 43750469.00 0.1842 0.1402

Saturn 115072-11-04 06:12 G 43750552.67 43750552.76 43750552.85 0.0288 0.0211

Neptune 115073-06-02 23:29 G 43750763.42 43750763.48 43750763.53 0.0089 0.0085

Neptune 115073-08-30 02:36 G 43750851.51 43750851.61 43750851.70 0.0089 0.0076

Neptune 115073-11-26 05:29 G 43750939.62 43750939.73 43750939.86 0.0089 0.0067

Neptune 115074-02-22 08:36 G 43751027.73 43751027.86 43751028.01 0.0089 0.0058

Neptune 115074-05-21 11:44 G 43751115.85 43751115.99 43751116.15 0.0089 0.0049

Neptune 115074-08-17 14:51 G 43751203.97 43751204.12 43751204.30 0.0089 0.0040

Neptune 115074-11-13 18:12 G 43751292.09 43751292.26 43751292.44 0.0089 0.0030

Venus 115075-01-04 22:32 G 43751344.37 43751344.44 43751344.50 0.3693 0.2866

Neptune 115075-02-09 21:20 G 43751380.22 43751380.39 43751380.57 0.0089 0.0021

Moon 115075-02-10 15:05 G 43751380.99 43751381.13 43751381.28 0.2675 0.0739

Earth 115075-02-10 16:03 G 43751381.02 43751381.17 43751381.32 0.2670 0.0634 *

Neptune 115075-05-09 00:41 G 43751468.35 43751468.53 43751468.71 0.0089 0.0012

Neptune 115075-08-05 03:48 G 43751556.48 43751556.66 43751556.85 0.0089 0.0003

Neptune 115075-11-01 06:56 G 43751644.61 43751644.79 43751644.98 0.0089 0.0008

Neptune 115076-01-28 10:17 G 43751732.75 43751732.93 43751733.11 0.0089 0.0016

Jupiter 115076-03-18 23:00 G 43751783.34 43751783.46 43751783.58 0.0531 0.0219

Neptune 115076-04-25 13:24 G 43751820.89 43751821.06 43751821.24 0.0089 0.0026

Jupiter 115076-06-16 07:53 G 43751872.77 43751872.83 43751872.90 0.0528 0.0454

Venus 115076-07-20 15:05 G 43751906.98 43751907.13 43751907.27 0.3675 0.0647

Neptune 115076-07-22 16:32 G 43751909.03 43751909.19 43751909.37 0.0089 0.0035

Neptune 115076-10-18 19:53 G 43751997.18 43751997.33 43751997.50 0.0089 0.0044

Neptune 115077-01-14 23:00 G 43752085.32 43752085.46 43752085.62 0.0089 0.0054

Neptune 115077-04-13 02:22 G 43752173.48 43752173.60 43752173.74 0.0089 0.0063

Neptune 115077-07-10 05:29 G 43752261.64 43752261.73 43752261.85 0.0089 0.0073

Neptune 115077-10-06 08:51 G 43752349.81 43752349.87 43752349.95 0.0089 0.0083

Mars 115082-01-02 19:24 G 43753899.20 43753899.31 43753899.42 0.1850 0.0417

Venus 115082-02-03 19:53 G 43753931.28 43753931.33 43753931.39 0.3680 0.3405

Jupiter 115082-07-29 12:12 G 43754106.83 43754107.01 43754107.18 0.0498 0.0010

Earth 115085-08-11 11:15 G 43755215.89 43755215.97 43755216.04 0.2660 0.1966

Moon 115085-08-11 11:44 G 43755215.92 43755215.99 43755216.06 0.2665 0.1995 *

Saturn 115086-06-04 07:53 G 43755512.79 43755512.83 43755512.89 0.0273 0.0260

Saturn 115086-09-01 03:20 G 43755601.47 43755601.64 43755601.81 0.0273 0.0077

Saturn 115086-11-28 23:00 G 43755690.30 43755690.46 43755690.62 0.0272 0.0108

Jupiter 115088-01-06 02:08 G 43756093.50 43756093.59 43756093.68 0.0532 0.0398

Jupiter 115088-04-04 11:29 G 43756182.87 43756182.98 43756183.09 0.0529 0.0288

Mars 115091-05-26 04:03 G 43757329.57 43757329.67 43757329.78 0.1858 0.0622

Mars 115092-06-21 01:10 G 43757721.39 43757721.55 43757721.71 0.1691 0.0506

Jupiter 115094-05-17 11:15 G 43758416.81 43758416.97 43758417.13 0.0497 0.0191

Jupiter 115100-01-22 15:20 G 43760493.01 43760493.14 43760493.27 0.0530 0.0129

Mars 115100-10-16 12:41 G 43760759.98 43760760.03 43760760.08 0.1867 0.1683

Saturn 115101-09-29 06:27 G 43761107.67 43761107.77 43761107.89 0.0286 0.0170

Mars 115101-11-12 01:10 G 43761151.41 43761151.55 43761151.70 0.1684 0.0799

Saturn 115101-12-26 19:24 G 43761196.17 43761196.31 43761196.44 0.0287 0.0006

Saturn 115102-03-25 07:53 G 43761284.72 43761284.83 43761284.95 0.0287 0.0161

Earth 115105-08-08 04:03 G 43762516.56 43762516.67 43762516.77 0.2664 0.1109

Moon 115105-08-08 04:03 G 43762516.57 43762516.67 43762516.77 0.2670 0.1101 *

Jupiter 115106-03-06 10:32 G 43762726.83 43762726.94 43762727.05 0.0496 0.0373

Jupiter 115106-06-04 13:10 G 43762816.94 43762817.05 43762817.16 0.0499 0.0381

Uranus 115109-01-23 19:39 G 43763781.30 43763781.32 43763781.37 0.0140 0.0136

Uranus 115109-04-22 02:22 G 43763869.50 43763869.60 43763869.72 0.0140 0.0111

Venus 115109-06-14 01:24 G 43763922.52 43763922.56 43763922.59 0.3706 0.3502

Uranus 115109-07-19 09:05 G 43763957.75 43763957.88 43763958.03 0.0139 0.0086

Uranus 115109-10-15 15:48 G 43764046.00 43764046.16 43764046.32 0.0139 0.0060

Uranus 115110-01-11 22:32 G 43764134.27 43764134.44 43764134.62 0.0139 0.0035

Uranus 115110-04-10 05:15 G 43764222.54 43764222.72 43764222.90 0.0139 0.0010

Uranus 115110-07-07 11:58 G 43764310.82 43764311.00 43764311.18 0.0139 0.0017

Uranus 115110-10-03 18:41 G 43764399.12 43764399.28 43764399.46 0.0139 0.0042

Uranus 115110-12-31 01:24 G 43764487.42 43764487.56 43764487.73 0.0139 0.0068

Uranus 115111-03-29 08:36 G 43764575.73 43764575.86 43764575.99 0.0139 0.0093

Uranus 115111-06-25 15:34 G 43764664.06 43764664.15 43764664.24 0.0139 0.0119

Jupiter 115111-11-11 18:56 G 43764803.16 43764803.29 43764803.43 0.0530 0.0037

Mars 115112-02-12 10:17 G 43764895.87 43764895.93 43764895.99 0.1842 0.1530

Pluto 115114-11-23 16:32 G 43765911.15 43765911.19 43765911.28 0.0059 0.0056

Venus 115114-12-28 18:12 G 43765946.17 43765946.26 43765946.36 0.3703 0.1702

Pluto 115115-02-19 18:27 G 43765999.15 43765999.27 43765999.39 0.0059 0.0047

Pluto 115115-05-18 19:53 G 43766087.18 43766087.33 43766087.48 0.0059 0.0038

Pluto 115115-08-14 21:05 G 43766175.21 43766175.38 43766175.56 0.0060 0.0029

Pluto 115115-11-10 22:32 G 43766263.26 43766263.44 43766263.63 0.0060 0.0020

Saturn 115116-01-20 00:27 G 43766333.38 43766333.52 43766333.67 0.0272 0.0153

Pluto 115116-02-06 23:44 G 43766351.31 43766351.49 43766351.70 0.0060 0.0011

Saturn 115116-04-17 19:53 G 43766422.16 43766422.33 43766422.51 0.0272 0.0032

Pluto 115116-05-05 01:24 G 43766439.36 43766439.56 43766439.76 0.0060 0.0001

Saturn 115116-07-15 15:34 G 43766511.05 43766511.15 43766511.27 0.0272 0.0218

Pluto 115116-08-01 02:51 G 43766527.42 43766527.62 43766527.82 0.0060 0.0008

Pluto 115116-10-28 04:17 G 43766615.49 43766615.68 43766615.87 0.0060 0.0017

Pluto 115117-01-24 05:15 G 43766703.56 43766703.72 43766703.91 0.0060 0.0027

Pluto 115117-04-22 06:41 G 43766791.64 43766791.78 43766791.95 0.0060 0.0036

Pluto 115117-07-19 08:08 G 43766879.73 43766879.84 43766879.98 0.0060 0.0045

Pluto 115117-10-15 09:20 G 43766967.83 43766967.89 43766967.99 0.0060 0.0055

Jupiter 115118-03-23 12:12 G 43767126.86 43767127.01 43767127.18 0.0499 0.0197

Earth 115118-08-10 22:03 G 43767267.31 43767267.42 43767267.53 0.2662 0.0625

Moon 115118-08-10 22:46 G 43767267.34 43767267.45 43767267.55 0.2665 0.0733 *

Venus 115120-07-13 11:00 G 43767969.86 43767969.96 43767970.07 0.3699 0.0079

Earth 115121-02-11 22:17 G 43768183.28 43768183.43 43768183.58 0.2670 0.0054

Moon 115121-02-11 23:44 G 43768183.34 43768183.49 43768183.64 0.2674 0.0158 *

Mars 115121-07-04 19:24 G 43768326.20 43768326.31 43768326.42 0.1850 0.0531

Jupiter 115123-08-30 22:03 G 43769113.30 43769113.42 43769113.55 0.0531 0.0208

Jupiter 115123-11-28 06:56 G 43769202.73 43769202.79 43769202.85 0.0528 0.0464

Venus 115126-01-27 03:34 G 43769993.56 43769993.65 43769993.75 0.3695 0.1756

Venus 115127-08-12 11:44 G 43770555.92 43770555.99 43770556.05 0.3672 0.3254

Jupiter 115130-01-09 11:29 G 43771436.81 43771436.98 43771437.15 0.0498 0.0011

Mars 115130-11-25 04:03 G 43771756.56 43771756.67 43771756.78 0.1858 0.0501

Saturn 115131-02-16 07:24 G 43771839.73 43771839.81 43771839.90 0.0287 0.0230

Saturn 115131-05-15 20:22 G 43771928.22 43771928.35 43771928.48 0.0287 0.0063

Saturn 115131-08-12 09:05 G 43772016.75 43772016.88 43772017.01 0.0288 0.0103

Venus 115131-08-12 20:08 G 43772017.30 43772017.34 43772017.38 0.3692 0.3398

Earth 115131-08-13 16:03 G 43772018.12 43772018.17 43772018.22 0.2660 0.2320

Moon 115131-08-13 16:32 G 43772018.14 43772018.19 43772018.23 0.2655 0.2400 *

Saturn 115131-11-08 21:34 G 43772105.36 43772105.40 43772105.45 0.0288 0.0267

Mars 115131-12-22 01:53 G 43772148.43 43772148.58 43772148.74 0.1692 0.0699

Venus 115133-02-25 16:03 G 43772580.03 43772580.17 43772580.31 0.3676 0.0593

Jupiter 115135-06-19 01:10 G 43773423.46 43773423.55 43773423.65 0.0532 0.0383

Jupiter 115135-09-16 10:32 G 43773512.83 43773512.94 43773513.05 0.0529 0.0300

Earth 115138-08-06 14:36 G 43774568.07 43774568.11 43774568.15 0.2665 0.2489

Moon 115138-08-06 15:05 G 43774568.09 43774568.13 43774568.16 0.2671 0.2487 *

Mars 115140-04-16 12:56 G 43775186.97 43775187.04 43775187.10 0.1866 0.1553

Mars 115141-05-13 01:53 G 43775578.43 43775578.58 43775578.74 0.1684 0.0620

Jupiter 115141-10-28 10:03 G 43775746.76 43775746.92 43775747.08 0.0497 0.0181

Saturn 115145-06-08 01:10 G 43777065.43 43777065.55 43777065.68 0.0273 0.0195

Saturn 115145-09-04 20:36 G 43777154.19 43777154.36 43777154.54 0.0273 0.0013

Saturn 115145-12-02 16:32 G 43777243.05 43777243.19 43777243.32 0.0272 0.0176

Jupiter 115147-07-05 13:53 G 43777822.95 43777823.08 43777823.21 0.0530 0.0129

Earth 115151-08-09 08:51 G 43779318.76 43779318.87 43779318.98 0.2663 0.0738

Moon 115151-08-09 09:34 G 43779318.79 43779318.90 43779319.01 0.2663 0.0539 *

Mars 115151-08-13 10:17 G 43779322.89 43779322.93 43779322.98 0.1841 0.1656

Uranus 115152-04-27 02:22 G 43779580.55 43779580.60 43779580.67 0.0138 0.0125

Uranus 115152-07-24 06:12 G 43779668.68 43779668.76 43779668.86 0.0138 0.0106

Uranus 115152-10-20 10:03 G 43779756.82 43779756.92 43779757.04 0.0139 0.0086

Uranus 115153-01-16 14:08 G 43779844.96 43779845.09 43779845.21 0.0139 0.0066

Uranus 115153-04-14 17:44 G 43779933.11 43779933.24 43779933.38 0.0139 0.0046

Uranus 115153-07-11 21:34 G 43780021.26 43780021.40 43780021.54 0.0139 0.0027

Jupiter 115153-08-16 09:20 G 43780056.78 43780056.89 43780057.01 0.0496 0.0361

Uranus 115153-10-08 01:24 G 43780109.42 43780109.56 43780109.70 0.0139 0.0008

Jupiter 115153-11-14 11:58 G 43780146.90 43780147.00 43780147.11 0.0499 0.0391

Neptune 115154-01-03 18:41 G 43780197.25 43780197.28 43780197.34 0.0088 0.0083

Uranus 115154-01-04 05:00 G 43780197.57 43780197.71 43780197.85 0.0139 0.0012

Earth 115154-02-09 23:44 G 43780234.46 43780234.49 43780234.52 0.2668 0.2594

Moon 115154-02-10 01:10 G 43780234.47 43780234.55 43780234.63 0.2667 0.2253 *

Neptune 115154-04-01 20:22 G 43780285.29 43780285.35 43780285.43 0.0088 0.0076

Uranus 115154-04-02 08:36 G 43780285.73 43780285.86 43780286.00 0.0139 0.0032

Neptune 115154-06-28 21:48 G 43780373.34 43780373.41 43780373.51 0.0088 0.0069

Uranus 115154-06-29 12:27 G 43780373.89 43780374.02 43780374.15 0.0139 0.0051

Neptune 115154-09-24 23:29 G 43780461.39 43780461.48 43780461.58 0.0088 0.0062

Uranus 115154-09-25 16:03 G 43780462.06 43780462.17 43780462.29 0.0139 0.0070

Neptune 115154-12-22 00:56 G 43780549.44 43780549.54 43780549.65 0.0088 0.0055

Uranus 115154-12-22 19:53 G 43780550.22 43780550.33 43780550.43 0.0139 0.0090

Neptune 115155-03-20 02:36 G 43780637.49 43780637.61 43780637.73 0.0088 0.0048

Uranus 115155-03-20 23:15 G 43780638.39 43780638.47 43780638.56 0.0139 0.0109

Neptune 115155-06-16 04:03 G 43780725.55 43780725.67 43780725.80 0.0088 0.0042

Uranus 115155-06-17 02:51 G 43780726.58 43780726.62 43780726.68 0.0139 0.0128

Neptune 115155-09-12 05:29 G 43780813.61 43780813.73 43780813.86 0.0088 0.0035

Neptune 115155-12-09 06:56 G 43780901.67 43780901.79 43780901.93 0.0088 0.0028

Neptune 115156-03-06 08:36 G 43780989.72 43780989.86 43780989.99 0.0088 0.0021

Neptune 115156-06-02 10:03 G 43781077.78 43781077.92 43781078.06 0.0088 0.0014

Neptune 115156-08-29 11:29 G 43781165.84 43781165.98 43781166.12 0.0088 0.0008

Neptune 115156-11-25 12:56 G 43781253.90 43781254.04 43781254.18 0.0088 0.0002

Neptune 115157-02-21 14:22 G 43781341.97 43781342.10 43781342.24 0.0088 0.0006

Neptune 115157-05-20 15:48 G 43781430.03 43781430.16 43781430.30 0.0088 0.0013

Neptune 115157-08-16 17:15 G 43781518.09 43781518.22 43781518.36 0.0088 0.0020

Neptune 115157-11-12 18:41 G 43781606.15 43781606.28 43781606.42 0.0088 0.0026

Neptune 115158-02-08 20:08 G 43781694.22 43781694.34 43781694.47 0.0088 0.0033

Neptune 115158-05-07 21:34 G 43781782.28 43781782.40 43781782.53 0.0088 0.0040

Neptune 115158-08-03 23:00 G 43781870.35 43781870.46 43781870.58 0.0088 0.0046

Neptune 115158-10-31 00:27 G 43781958.42 43781958.52 43781958.63 0.0088 0.0053

Neptune 115159-01-27 01:53 G 43782046.49 43782046.58 43782046.69 0.0088 0.0059

Jupiter 115159-04-23 17:29 G 43782133.10 43782133.23 43782133.37 0.0531 0.0034

Neptune 115159-04-25 03:20 G 43782134.56 43782134.64 43782134.73 0.0088 0.0066

Neptune 115159-07-22 04:32 G 43782222.63 43782222.69 43782222.78 0.0088 0.0073

Neptune 115159-10-18 06:12 G 43782310.71 43782310.76 43782310.82 0.0088 0.0079

Neptune 115160-01-14 07:24 G 43782398.80 43782398.81 43782398.85 0.0088 0.0086

Saturn 115160-07-05 09:34 G 43782571.87 43782571.90 43782571.94 0.0286 0.0274

Saturn 115160-10-01 22:32 G 43782660.31 43782660.44 43782660.57 0.0286 0.0107

Saturn 115160-12-29 11:15 G 43782748.83 43782748.97 43782749.10 0.0287 0.0058

Mars 115161-01-02 19:24 G 43782753.20 43782753.31 43782753.42 0.1850 0.0653

Saturn 115161-03-27 23:44 G 43782837.41 43782837.49 43782837.58 0.0287 0.0221

Moon 115164-08-11 02:51 G 43784069.52 43784069.62 43784069.73 0.2655 0.0930

Earth 115164-08-11 02:51 G 43784069.52 43784069.62 43784069.73 0.2662 0.0988 *

Jupiter 115165-09-02 10:46 G 43784456.79 43784456.95 43784457.11 0.0498 0.0199

Venus 115166-01-18 23:15 G 43784595.40 43784595.47 43784595.53 0.3705 0.2912

Earth 115167-02-13 04:46 G 43784985.55 43784985.70 43784985.84 0.2671 0.0670

Moon 115167-02-13 05:00 G 43784985.56 43784985.71 43784985.86 0.2664 0.0632 *

Mars 115170-05-26 04:03 G 43786183.56 43786183.67 43786183.79 0.1858 0.0378

Jupiter 115171-02-09 21:05 G 43786443.26 43786443.38 43786443.51 0.0531 0.0198

Jupiter 115171-05-10 06:12 G 43786532.70 43786532.76 43786532.81 0.0528 0.0476

Mars 115171-06-22 02:51 G 43786575.48 43786575.62 43786575.76 0.1692 0.0882

Venus 115171-08-04 16:03 G 43786619.07 43786619.17 43786619.27 0.3702 0.1125

Saturn 115174-10-25 22:32 G 43787797.42 43787797.44 43787797.47 0.0273 0.0269

Saturn 115175-01-22 17:58 G 43787886.08 43787886.25 43787886.42 0.0273 0.0086

Saturn 115175-04-21 13:39 G 43787974.90 43787975.07 43787975.23 0.0272 0.0100

Venus 115177-02-17 08:51 G 43788642.76 43788642.87 43788642.97 0.3698 0.0615

Jupiter 115177-06-21 10:03 G 43788766.74 43788766.92 43788767.09 0.0498 0.0020

Moon 115177-08-13 20:22 G 43788820.33 43788820.35 43788820.36 0.2657 0.2628

Mars 115179-10-16 12:41 G 43789613.96 43789614.03 43789614.11 0.1866 0.1437

Mars 115180-11-11 02:36 G 43790005.45 43790005.61 43790005.77 0.1684 0.0446

Venus 115182-09-03 01:24 G 43790666.48 43790666.56 43790666.64 0.3695 0.2294

Jupiter 115182-11-29 00:12 G 43790753.42 43790753.51 43790753.61 0.0532 0.0373

Jupiter 115183-02-26 09:34 G 43790842.80 43790842.90 43790843.01 0.0529 0.0310

Venus 115184-03-18 12:27 G 43791228.90 43791229.02 43791229.14 0.3673 0.2084

Earth 115184-08-06 19:24 G 43791370.25 43791370.31 43791370.38 0.2665 0.2124

Moon 115184-08-06 20:08 G 43791370.27 43791370.34 43791370.41 0.2660 0.2069 *

Jupiter 115189-04-09 09:05 G 43793076.72 43793076.88 43793077.05 0.0497 0.0166

Venus 115189-10-02 17:00 G 43793253.09 43793253.21 43793253.34 0.3678 0.1841

Saturn 115190-02-18 23:29 G 43793392.37 43793392.48 43793392.59 0.0287 0.0167

Saturn 115190-05-18 12:12 G 43793480.87 43793481.01 43793481.15 0.0287 0.0002

Saturn 115190-08-15 00:41 G 43793569.43 43793569.53 43793569.65 0.0288 0.0165

Mars 115191-02-11 10:17 G 43793749.90 43793749.93 43793749.96 0.1841 0.1764

Uranus 115193-02-13 02:51 G 43794482.56 43794482.62 43794482.68 0.0140 0.0130

Uranus 115193-05-12 09:05 G 43794570.78 43794570.88 43794571.01 0.0140 0.0106

Uranus 115193-08-08 15:48 G 43794659.03 43794659.16 43794659.32 0.0139 0.0081

Uranus 115193-11-04 22:46 G 43794747.28 43794747.45 43794747.61 0.0139 0.0055

Uranus 115194-02-01 05:29 G 43794835.55 43794835.73 43794835.90 0.0139 0.0030

Uranus 115194-04-30 12:12 G 43794923.83 43794924.01 43794924.19 0.0139 0.0004

Uranus 115194-07-27 18:56 G 43795012.11 43795012.29 43795012.47 0.0139 0.0021

Uranus 115194-10-24 01:39 G 43795100.40 43795100.57 43795100.74 0.0139 0.0047

Jupiter 115194-12-15 12:56 G 43795152.91 43795153.04 43795153.17 0.0530 0.0143

Uranus 115195-01-20 08:22 G 43795188.70 43795188.85 43795189.01 0.0139 0.0073

Uranus 115195-04-18 15:05 G 43795277.02 43795277.13 43795277.27 0.0139 0.0099

Uranus 115195-07-15 22:03 G 43795365.35 43795365.42 43795365.51 0.0139 0.0125

Moon 115197-08-09 13:24 G 43796120.94 43796121.06 43796121.17 0.2658 0.0387

Earth 115197-08-09 13:39 G 43796120.96 43796121.07 43796121.18 0.2663 0.0371 *

Moon 115200-02-11 05:29 G 43797036.63 43797036.73 43797036.83 0.2663 0.2040

Earth 115200-02-11 05:58 G 43797036.65 43797036.75 43797036.85 0.2669 0.1954 *

Mars 115200-07-03 19:24 G 43797180.21 43797180.31 43797180.41 0.1850 0.0779

Jupiter 115201-01-26 08:08 G 43797386.72 43797386.84 43797386.97 0.0496 0.0351

Jupiter 115201-04-26 10:46 G 43797476.85 43797476.95 43797477.06 0.0499 0.0401

Saturn 115204-06-10 18:41 G 43798618.12 43798618.28 43798618.43 0.0273 0.0129

Saturn 115204-09-07 14:08 G 43798706.92 43798707.09 43798707.27 0.0273 0.0056

Saturn 115204-12-05 10:03 G 43798795.84 43798795.92 43798796.00 0.0272 0.0244

Jupiter 115206-10-03 16:03 G 43799463.03 43799463.17 43799463.30 0.0531 0.0038

Mars 115209-11-24 04:17 G 43800610.56 43800610.68 43800610.79 0.1858 0.0245

Moon 115210-08-12 07:10 G 43800871.70 43800871.80 43800871.90 0.2661 0.1197

Earth 115210-08-12 07:53 G 43800871.73 43800871.83 43800871.92 0.2661 0.1356 *

Mars 115210-12-21 03:20 G 43801002.51 43801002.64 43801002.77 0.1692 0.1049

Pluto 115211-02-11 03:05 G 43801054.60 43801054.63 43801054.69 0.0085 0.0079

Pluto 115211-05-10 04:32 G 43801142.60 43801142.69 43801142.79 0.0085 0.0061

Pluto 115211-08-06 05:44 G 43801230.63 43801230.74 43801230.86 0.0085 0.0043

Pluto 115211-11-02 07:10 G 43801318.67 43801318.80 43801318.92 0.0085 0.0025

Pluto 115212-01-29 08:22 G 43801406.72 43801406.85 43801406.98 0.0085 0.0008

Pluto 115212-04-26 09:34 G 43801494.77 43801494.90 43801495.03 0.0085 0.0010

Pluto 115212-07-23 10:46 G 43801582.82 43801582.95 43801583.07 0.0084 0.0028

Pluto 115212-10-19 11:44 G 43801670.89 43801670.99 43801671.11 0.0084 0.0045

Pluto 115213-01-15 12:56 G 43801758.96 43801759.04 43801759.13 0.0084 0.0063

Jupiter 115213-02-12 09:34 G 43801786.74 43801786.90 43801787.06 0.0498 0.0210

Moon 115213-02-13 09:20 G 43801787.76 43801787.89 43801788.03 0.2670 0.1105

Earth 115213-02-13 11:00 G 43801787.83 43801787.96 43801788.09 0.2671 0.1326 *

Pluto 115213-04-13 13:53 G 43801847.06 43801847.08 43801847.13 0.0084 0.0080

Jupiter 115218-07-22 19:24 G 43803773.19 43803773.31 43803773.44 0.0532 0.0202

Jupiter 115218-10-20 04:32 G 43803862.64 43803862.69 43803862.75 0.0528 0.0474

Mars 115219-04-16 12:41 G 43804040.95 43804041.03 43804041.11 0.1866 0.1314

Saturn 115219-07-09 01:53 G 43804124.49 43804124.58 43804124.68 0.0286 0.0206

Saturn 115219-10-05 14:36 G 43804212.98 43804213.11 43804213.25 0.0286 0.0041

Saturn 115220-01-02 03:20 G 43804301.52 43804301.64 43804301.76 0.0287 0.0124

Saturn 115220-03-30 15:48 G 43804390.16 43804390.16 43804390.17 0.0287 0.0286

Mars 115220-05-12 03:20 G 43804432.48 43804432.64 43804432.81 0.1685 0.0267

Venus 115222-08-25 21:05 G 43805268.29 43805268.38 43805268.46 0.3705 0.2323

Jupiter 115224-12-01 08:08 G 43806096.67 43806096.84 43806097.02 0.0497 0.0019

Venus 115228-03-10 13:53 G 43807291.97 43807292.08 43807292.19 0.3701 0.0550

Mars 115229-10-02 03:48 G 43807862.60 43807862.66 43807862.72 0.1677 0.1540

Jupiter 115230-05-10 23:00 G 43808083.37 43808083.46 43808083.56 0.0532 0.0367

Moon 115230-08-07 23:44 G 43808172.41 43808172.49 43808172.57 0.2661 0.1825

Earth 115230-08-08 00:27 G 43808172.43 43808172.52 43808172.60 0.2665 0.1752 *

Jupiter 115230-08-08 08:22 G 43808172.75 43808172.85 43808172.96 0.0529 0.0318

Venus 115233-09-24 06:27 G 43809315.67 43809315.77 43809315.88 0.3697 0.1179

Saturn 115233-10-28 16:17 G 43809350.07 43809350.18 43809350.31 0.0273 0.0199

Saturn 115234-01-25 11:58 G 43809438.82 43809439.00 43809439.17 0.0273 0.0016

Saturn 115234-04-24 07:39 G 43809527.68 43809527.82 43809527.96 0.0272 0.0171

Uranus 115236-05-17 09:48 G 43810281.85 43810281.91 43810281.99 0.0138 0.0119

Uranus 115236-08-13 13:39 G 43810369.98 43810370.07 43810370.18 0.0139 0.0100

Jupiter 115236-09-19 07:24 G 43810406.65 43810406.81 43810406.98 0.0497 0.0163

Uranus 115236-11-09 17:29 G 43810458.12 43810458.23 43810458.35 0.0139 0.0080

Uranus 115237-02-05 21:34 G 43810546.27 43810546.40 43810546.52 0.0139 0.0060

Uranus 115237-05-05 01:10 G 43810634.42 43810634.55 43810634.69 0.0139 0.0040

Uranus 115237-08-01 05:00 G 43810722.57 43810722.71 43810722.85 0.0139 0.0021

Uranus 115237-10-28 08:51 G 43810810.73 43810810.87 43810811.00 0.0139 0.0004

Uranus 115238-01-24 12:27 G 43810898.88 43810899.02 43810899.16 0.0139 0.0018

Neptune 115238-02-28 21:48 G 43810934.34 43810934.41 43810934.49 0.0089 0.0081

Uranus 115238-04-22 16:03 G 43810987.04 43810987.17 43810987.31 0.0139 0.0038

Neptune 115238-05-28 00:56 G 43811022.44 43811022.54 43811022.65 0.0089 0.0072

Uranus 115238-07-19 19:53 G 43811075.20 43811075.33 43811075.46 0.0139 0.0057

Neptune 115238-08-24 04:03 G 43811110.55 43811110.67 43811110.81 0.0089 0.0063

Uranus 115238-10-15 23:29 G 43811163.37 43811163.48 43811163.60 0.0139 0.0076

Neptune 115238-11-20 07:10 G 43811198.66 43811198.80 43811198.95 0.0089 0.0054

Uranus 115239-01-12 03:05 G 43811251.54 43811251.63 43811251.73 0.0139 0.0096

Neptune 115239-02-16 10:17 G 43811286.78 43811286.93 43811287.10 0.0089 0.0045

Venus 115239-04-09 23:00 G 43811339.40 43811339.46 43811339.53 0.3694 0.2835

Uranus 115239-04-10 06:56 G 43811339.71 43811339.79 43811339.86 0.0139 0.0115

Neptune 115239-05-15 13:24 G 43811374.90 43811375.06 43811375.24 0.0089 0.0036

Uranus 115239-07-07 10:32 G 43811427.90 43811427.94 43811427.97 0.0139 0.0134

Neptune 115239-08-11 16:46 G 43811463.03 43811463.20 43811463.38 0.0089 0.0026

Neptune 115239-11-07 19:53 G 43811551.16 43811551.33 43811551.52 0.0089 0.0017

Mars 115240-01-02 19:24 G 43811607.21 43811607.31 43811607.41 0.1849 0.0898

Neptune 115240-02-03 23:15 G 43811639.29 43811639.47 43811639.65 0.0089 0.0007

Neptune 115240-05-02 02:22 G 43811727.42 43811727.60 43811727.79 0.0089 0.0002

Neptune 115240-07-29 05:29 G 43811815.55 43811815.73 43811815.92 0.0089 0.0012

Venus 115240-10-23 13:24 G 43811901.92 43811902.06 43811902.20 0.3674 0.0902

Neptune 115240-10-25 08:51 G 43811903.69 43811903.87 43811904.05 0.0089 0.0020

Neptune 115241-01-21 11:58 G 43811991.83 43811992.00 43811992.18 0.0089 0.0030

Neptune 115241-04-19 15:05 G 43812079.98 43812080.13 43812080.31 0.0089 0.0040

Neptune 115241-07-16 18:27 G 43812168.12 43812168.27 43812168.43 0.0089 0.0049

Neptune 115241-10-12 21:34 G 43812256.27 43812256.40 43812256.55 0.0089 0.0058

Neptune 115242-01-09 00:56 G 43812344.43 43812344.54 43812344.67 0.0089 0.0068

Neptune 115242-04-07 04:03 G 43812432.59 43812432.67 43812432.78 0.0089 0.0077

Jupiter 115242-05-27 11:44 G 43812482.87 43812482.99 43812483.12 0.0530 0.0151

Neptune 115242-07-04 07:24 G 43812520.78 43812520.81 43812520.87 0.0089 0.0087

Moon 115243-08-10 17:58 G 43812923.14 43812923.25 43812923.36 0.2667 0.0160

Earth 115243-08-10 18:27 G 43812923.16 43812923.27 43812923.39 0.2663 0.0094 *

Moon 115246-02-11 11:00 G 43813838.85 43813838.96 43813839.08 0.2673 0.1623

Earth 115246-02-11 12:12 G 43813838.88 43813839.01 43813839.14 0.2669 0.1322 *

Venus 115246-05-09 18:12 G 43813926.18 43813926.26 43813926.33 0.3679 0.3101

Jupiter 115248-07-08 06:56 G 43814716.67 43814716.79 43814716.92 0.0496 0.0341

Jupiter 115248-10-06 09:34 G 43814806.81 43814806.90 43814807.00 0.0499 0.0414

Saturn 115248-11-25 02:36 G 43814856.57 43814856.61 43814856.67 0.0286 0.0267

Saturn 115249-02-21 15:34 G 43814945.02 43814945.15 43814945.28 0.0287 0.0100

Saturn 115249-05-21 04:17 G 43815033.55 43815033.68 43815033.82 0.0287 0.0066

Mars 115249-05-25 04:03 G 43815037.56 43815037.67 43815037.79 0.1858 0.0137

Saturn 115249-08-17 16:46 G 43815122.13 43815122.20 43815122.29 0.0287 0.0230

Mars 115250-06-21 04:17 G 43815429.57 43815429.68 43815429.79 0.1692 0.1244

Jupiter 115254-03-15 15:05 G 43816793.00 43816793.13 43816793.26 0.0531 0.0022

Earth 115256-08-12 12:41 G 43817673.94 43817674.03 43817674.11 0.2661 0.1707

Moon 115256-08-12 12:56 G 43817673.96 43817674.04 43817674.12 0.2667 0.1789 *

Mars 115258-10-15 12:56 G 43818467.95 43818468.04 43818468.13 0.1866 0.1175

Earth 115259-02-14 17:15 G 43818590.12 43818590.22 43818590.33 0.2671 0.1975

Moon 115259-02-14 17:44 G 43818590.15 43818590.24 43818590.33 0.2677 0.2124 *

Mars 115259-11-11 04:03 G 43818859.50 43818859.67 43818859.84 0.1685 0.0093

Jupiter 115260-07-25 08:08 G 43819116.69 43819116.84 43819117.00 0.0498 0.0219

Saturn 115263-03-17 16:46 G 43820082.13 43820082.20 43820082.29 0.0273 0.0244

Saturn 115263-06-14 12:27 G 43820170.85 43820171.02 43820171.19 0.0273 0.0059

Saturn 115263-09-11 07:53 G 43820259.68 43820259.83 43820260.00 0.0273 0.0128

Jupiter 115266-01-01 17:44 G 43821103.12 43821103.24 43821103.37 0.0532 0.0206

Jupiter 115266-04-01 02:51 G 43821192.56 43821192.62 43821192.68 0.0529 0.0470

Mars 115269-04-02 04:17 G 43822289.59 43822289.68 43822289.78 0.1678 0.1375

Jupiter 115272-05-13 07:10 G 43823426.62 43823426.80 43823426.97 0.0497 0.0032

Venus 115273-09-16 01:53 G 43823917.55 43823917.58 43823917.61 0.3707 0.3544

Moon 115276-08-08 05:00 G 43824974.61 43824974.71 43824974.80 0.2671 0.1367

Earth 115276-08-08 05:15 G 43824974.62 43824974.72 43824974.82 0.2664 0.1384 *

Uranus 115277-03-05 10:17 G 43825183.85 43825183.93 43825184.01 0.0140 0.0123

Uranus 115277-06-01 16:32 G 43825272.08 43825272.19 43825272.33 0.0140 0.0099

Uranus 115277-08-28 23:15 G 43825360.33 43825360.47 43825360.63 0.0139 0.0073

Jupiter 115277-10-20 21:05 G 43825413.29 43825413.38 43825413.48 0.0533 0.0376

Uranus 115277-11-25 05:58 G 43825448.59 43825448.75 43825448.92 0.0139 0.0048

Jupiter 115278-01-18 06:41 G 43825502.67 43825502.78 43825502.88 0.0529 0.0311

Uranus 115278-02-21 12:41 G 43825536.86 43825537.03 43825537.21 0.0139 0.0023

Uranus 115278-05-20 19:24 G 43825625.13 43825625.31 43825625.49 0.0139 0.0004

Saturn 115278-07-11 18:41 G 43825677.16 43825677.28 43825677.40 0.0286 0.0134

Uranus 115278-08-17 02:08 G 43825713.42 43825713.59 43825713.77 0.0139 0.0029

Saturn 115278-10-08 07:24 G 43825765.67 43825765.81 43825765.94 0.0286 0.0032

Uranus 115278-11-13 08:51 G 43825801.71 43825801.87 43825802.05 0.0139 0.0055

Saturn 115279-01-04 19:53 G 43825854.23 43825854.33 43825854.43 0.0287 0.0194

Uranus 115279-02-09 15:34 G 43825890.02 43825890.15 43825890.31 0.0139 0.0081

Venus 115279-04-01 18:56 G 43825941.19 43825941.29 43825941.38 0.3704 0.1746

Uranus 115279-05-08 22:32 G 43825978.33 43825978.44 43825978.57 0.0139 0.0106

Mars 115279-07-03 19:24 G 43826034.21 43826034.31 43826034.40 0.1849 0.1017

Uranus 115279-08-05 05:15 G 43826066.68 43826066.72 43826066.79 0.0139 0.0132

Jupiter 115284-03-01 05:44 G 43827736.58 43827736.74 43827736.90 0.0497 0.0162

Venus 115284-10-15 11:44 G 43827964.88 43827964.99 43827965.09 0.3700 0.0118

Mars 115288-11-23 04:17 G 43829464.56 43829464.68 43829464.79 0.1857 0.0036

Earth 115289-08-10 23:29 G 43829725.37 43829725.48 43829725.59 0.2663 0.0364

Moon 115289-08-10 23:58 G 43829725.39 43829725.50 43829725.61 0.2666 0.0394 *

Jupiter 115289-11-06 10:32 G 43829812.81 43829812.94 43829813.07 0.0530 0.0153

Mars 115289-12-20 05:00 G 43829856.62 43829856.71 43829856.80 0.1693 0.1426

Venus 115290-05-01 04:17 G 43829988.58 43829988.68 43829988.77 0.3696 0.1708

Venus 115291-11-14 10:03 G 43830550.88 43830550.92 43830550.96 0.3671 0.3499

Earth 115292-02-12 18:41 G 43830641.13 43830641.28 43830641.42 0.2669 0.0680

Moon 115292-02-12 19:39 G 43830641.17 43830641.32 43830641.46 0.2674 0.0577 *

Saturn 115292-10-31 10:32 G 43830902.79 43830902.94 43830903.11 0.0273 0.0125

Saturn 115293-01-28 06:12 G 43830991.59 43830991.76 43830991.94 0.0273 0.0061

Saturn 115293-04-27 01:53 G 43831080.52 43831080.58 43831080.66 0.0272 0.0248

Venus 115295-11-14 20:51 G 43832012.33 43832012.37 43832012.41 0.3693 0.3368

Jupiter 115295-12-19 05:00 G 43832046.59 43832046.71 43832046.84 0.0496 0.0340

Jupiter 115296-03-18 07:53 G 43832136.73 43832136.83 43832136.92 0.0499 0.0413

Venus 115297-05-30 14:22 G 43832574.95 43832575.10 43832575.24 0.3676 0.0330

Mars 115298-04-15 12:41 G 43832894.94 43832895.03 43832895.13 0.1866 0.1069

Mars 115299-05-12 04:46 G 43833286.54 43833286.70 43833286.87 0.1685 0.0093

Jupiter 115301-08-26 13:53 G 43834122.94 43834123.08 43834123.21 0.0531 0.0018

Earth 115302-08-14 17:29 G 43834476.16 43834476.23 43834476.30 0.2661 0.2063

Moon 115302-08-14 18:12 G 43834476.20 43834476.26 43834476.32 0.2658 0.2238 *

Earth 115305-02-15 23:44 G 43835392.47 43835392.49 43835392.51 0.2671 0.2630

Saturn 115307-11-29 19:39 G 43836409.22 43836409.32 43836409.42 0.0286 0.0193

Jupiter 115308-01-06 06:41 G 43836446.63 43836446.78 43836446.94 0.0498 0.0225

Saturn 115308-02-26 08:22 G 43836497.71 43836497.85 43836497.99 0.0287 0.0027

Saturn 115308-05-24 20:51 G 43836586.26 43836586.37 43836586.50 0.0287 0.0138

Mars 115308-10-02 05:15 G 43836716.61 43836716.72 43836716.84 0.1678 0.1187

Jupiter 115313-06-14 17:00 G 43838433.08 43838433.21 43838433.33 0.0531 0.0192

Jupiter 115313-09-12 01:53 G 43838522.53 43838522.58 43838522.63 0.0528 0.0482

Neptune 115318-07-05 16:32 G 43840280.19 43840280.19 43840280.23 0.0088 0.0088

Neptune 115318-10-01 18:12 G 43840368.22 43840368.26 43840368.33 0.0088 0.0080

Neptune 115318-12-28 19:39 G 43840456.26 43840456.32 43840456.41 0.0088 0.0074

Mars 115319-01-02 19:24 G 43840461.22 43840461.31 43840461.40 0.1849 0.1150

Neptune 115319-03-26 21:20 G 43840544.31 43840544.39 43840544.49 0.0088 0.0066

Neptune 115319-06-22 23:00 G 43840632.36 43840632.46 43840632.56 0.0088 0.0059

Neptune 115319-09-19 00:27 G 43840720.41 43840720.52 43840720.64 0.0088 0.0053

Jupiter 115319-10-25 05:44 G 43840756.56 43840756.74 43840756.91 0.0497 0.0038

Neptune 115319-12-16 02:08 G 43840808.47 43840808.59 43840808.71 0.0088 0.0046

Uranus 115320-03-11 13:24 G 43840895.03 43840895.06 43840895.10 0.0138 0.0133

Neptune 115320-03-13 03:34 G 43840896.53 43840896.65 43840896.78 0.0088 0.0039

Uranus 115320-06-07 17:15 G 43840983.15 43840983.22 43840983.31 0.0138 0.0114

Neptune 115320-06-09 05:00 G 43840984.58 43840984.71 43840984.84 0.0088 0.0032

Uranus 115320-09-03 21:05 G 43841071.29 43841071.38 43841071.49 0.0139 0.0094

Neptune 115320-09-05 06:27 G 43841072.64 43841072.77 43841072.91 0.0088 0.0025

Uranus 115320-12-01 01:10 G 43841159.43 43841159.55 43841159.67 0.0139 0.0074

Neptune 115320-12-02 08:08 G 43841160.70 43841160.84 43841160.97 0.0088 0.0018

Uranus 115321-02-27 04:46 G 43841247.58 43841247.70 43841247.83 0.0139 0.0054

Neptune 115321-02-28 09:34 G 43841248.76 43841248.90 43841249.04 0.0088 0.0012

Uranus 115321-05-26 08:36 G 43841335.73 43841335.86 43841336.00 0.0139 0.0035

Neptune 115321-05-27 11:00 G 43841336.82 43841336.96 43841337.10 0.0088 0.0005

Uranus 115321-08-22 12:27 G 43841423.88 43841424.02 43841424.16 0.0139 0.0015

Neptune 115321-08-23 12:27 G 43841424.88 43841425.02 43841425.16 0.0088 0.0002

Uranus 115321-11-18 16:03 G 43841512.04 43841512.17 43841512.31 0.0139 0.0006

Neptune 115321-11-19 13:53 G 43841512.94 43841513.08 43841513.22 0.0088 0.0009

Uranus 115322-02-14 19:53 G 43841600.19 43841600.33 43841600.47 0.0139 0.0024

Neptune 115322-02-15 15:20 G 43841601.01 43841601.14 43841601.28 0.0088 0.0016

Saturn 115322-03-21 11:15 G 43841634.83 43841634.97 43841635.11 0.0273 0.0170

Uranus 115322-05-13 23:29 G 43841688.35 43841688.48 43841688.62 0.0139 0.0044

Neptune 115322-05-14 16:46 G 43841689.07 43841689.20 43841689.34 0.0088 0.0022

Saturn 115322-06-18 06:41 G 43841723.60 43841723.78 43841723.96 0.0273 0.0016

Uranus 115322-08-10 03:05 G 43841776.52 43841776.63 43841776.76 0.0139 0.0063

Earth 115322-08-10 10:03 G 43841776.82 43841776.92 43841777.03 0.2664 0.1017

Moon 115322-08-10 10:46 G 43841776.85 43841776.95 43841777.06 0.2666 0.0878 *

Neptune 115322-08-10 18:12 G 43841777.13 43841777.26 43841777.39 0.0088 0.0029

Saturn 115322-09-15 02:36 G 43841812.49 43841812.61 43841812.72 0.0273 0.0203

Uranus 115322-11-06 06:56 G 43841864.68 43841864.79 43841864.90 0.0139 0.0082

Neptune 115322-11-06 19:24 G 43841865.20 43841865.31 43841865.45 0.0088 0.0037

Uranus 115323-02-02 10:32 G 43841952.85 43841952.94 43841953.04 0.0139 0.0101

Neptune 115323-02-02 21:05 G 43841953.26 43841953.38 43841953.50 0.0088 0.0042

Uranus 115323-05-01 14:08 G 43842041.03 43842041.09 43842041.16 0.0139 0.0121

Neptune 115323-05-01 22:32 G 43842041.33 43842041.44 43842041.56 0.0088 0.0049

Neptune 115323-07-28 23:58 G 43842129.40   43842129.50   43842129.61 0.0088 0.0055

Neptune 115323-10-25 01:24 G 43842217.47   43842217.56   43842217.66 0.0088 0.0062

Neptune 115324-01-21 02:36 G 43842305.54   43842305.61   43842305.71 0.0088 0.0069

Neptune 115324-04-18 04:17 G 43842393.61   43842393.68   43842393.75 0.0088 0.0075

Neptune 115324-07-15 05:29 G 43842481.69   43842481.73   43842481.79 0.0088 0.0082

Jupiter 115325-04-02 19:24 G 43842743.22   43842743.31   43842743.40 0.0533 0.0382

Jupiter 115325-07-01 05:00 G 43842832.60   43842832.71   43842832.81 0.0530 0.0306

Mars   115328-05-25 04:17 G 43843891.56   43843891.68   43843891.79 0.1857 0.0128

Mars   115329-06-21 05:29 G 43844283.68   43844283.73   43844283.78 0.1693 0.1595

Venus   115330-04-23 23:44 G 43844590.42   43844590.49   43844590.55 0.3706 0.2959

Jupiter 115331-08-13 04:32 G 43845066.53   43845066.69   43845066.86 0.0496 0.0151

Earth   115335-08-13 04:17 G 43846527.57   43846527.68   43846527.79 0.2662 0.0719

Moon   115335-08-13 04:46 G 43846527.59   43846527.70   43846527.80 0.2656 0.0773 *

Venus   115335-11-07 16:32 G 43846614.09   43846614.19   43846614.30 0.3703 0.1170

Saturn   115337-04-17 22:46 G 43847141.37   43847141.45   43847141.54 0.0285 0.0222

Jupiter 115337-04-19 08:36 G 43847142.73   43847142.86   43847142.98 0.0530 0.0143

Saturn   115337-07-15 11:44 G 43847229.85   43847229.99   43847230.12 0.0286 0.0057

Saturn   115337-10-12 00:27 G 43847318.39   43847318.52   43847318.64 0.0286 0.0107

Mars   115337-10-15 12:56 G 43847321.94   43847322.04   43847322.14 0.1865 0.0935

Saturn   115338-01-08 12:41 G 43847406.99   43847407.03   43847407.08 0.0287 0.0270

Earth   115338-02-14 00:56 G 43847443.39   43847443.54   43847443.69 0.2670 0.0043

Moon   115338-02-14 01:39 G 43847443.42   43847443.57   43847443.72 0.2664 0.0135 *

Mars   115338-11-11 05:29 G 43847713.57   43847713.73   43847713.90 0.1685 0.0273

Venus   115341-05-23 09:20 G 43848637.79   43848637.89   43848638.00 0.3699 0.0565

Jupiter 115343-06-01 03:05 G 43849376.51   43849376.63   43849376.76 0.0496 0.0341

Jupiter 115343-08-30 05:29 G 43849466.64   43849466.73   43849466.84 0.0499 0.0410

Venus   115346-12-07 01:53 G 43850661.50   43850661.58   43850661.67 0.3696 0.2256

Mars   115348-04-02 05:58 G 43851143.62   43851143.75   43851143.88 0.1678 0.1015

Venus   115348-06-21 10:46 G 43851223.84   43851223.95   43851224.06 0.3672 0.2335

Moon   115348-08-14 21:48 G 43851278.36   43851278.41   43851278.46 0.2656 0.2347

Earth 115348-08-14 22:17 G 43851278.39 43851278.43 43851278.48 0.2661 0.2424 *

Jupiter 115349-02-05 12:12 G 43851452.88 43851453.01 43851453.15 0.0531 0.0022

Saturn 115351-08-08 10:03 G 43852366.84 43852366.92 43852367.03 0.0273 0.0229

Saturn 115351-11-05 05:44 G 43852455.56 43852455.74 43852455.91 0.0273 0.0044

Saturn 115352-02-02 01:10 G 43852544.41 43852544.55 43852544.71 0.0273 0.0143

Venus 115354-01-05 15:20 G 43853248.00 43853248.14 43853248.27 0.3677 0.1537

Jupiter 115355-06-18 04:32 G 43853776.54 43853776.69 43853776.85 0.0498 0.0222

Earth 115355-08-08 20:51 G 43853828.32 43853828.37 43853828.41 0.2666 0.2412

Moon 115355-08-08 21:34 G 43853828.34 43853828.40 43853828.46 0.2664 0.2226 *

Mars 115358-07-03 19:24 G 43854888.23 43854888.31 43854888.39 0.1848 0.1261

Pluto 115360-10-20 07:10 G 43855727.70 43855727.80 43855727.90 0.0059 0.0051

Jupiter 115360-11-24 15:34 G 43855763.02 43855763.15 43855763.27 0.0532 0.0191

Pluto 115361-01-16 08:22 G 43855815.72 43855815.85 43855816.00 0.0059 0.0042

Jupiter 115361-02-22 00:27 G 43855852.47 43855852.52 43855852.57 0.0528 0.0483

Uranus 115361-03-26 17:00 G 43855885.13 43855885.21 43855885.32 0.0140 0.0117

Pluto 115361-04-14 09:48 G 43855903.75 43855903.91 43855904.08 0.0060 0.0033

Uranus 115361-06-22 23:29 G 43855973.36 43855973.48 43855973.63 0.0139 0.0093

Pluto 115361-07-11 11:00 G 43855991.79 43855991.96 43855992.15 0.0060 0.0024

Uranus 115361-09-19 06:12 G 43856061.61 43856061.76 43856061.93 0.0139 0.0068

Pluto 115361-10-07 12:27 G 43856079.84 43856080.02 43856080.22 0.0060 0.0015

Uranus 115361-12-16 12:56 G 43856149.88 43856150.04 43856150.22 0.0139 0.0042

Pluto 115362-01-03 13:53 G 43856167.89 43856168.08 43856168.29 0.0060 0.0006

Uranus 115362-03-14 19:39 G 43856238.15 43856238.32 43856238.50 0.0139 0.0017

Pluto 115362-04-01 15:20 G 43856255.95 43856256.14 43856256.34 0.0060 0.0004

Uranus 115362-06-11 02:22 G 43856326.43 43856326.60 43856326.79 0.0139 0.0010

Pluto 115362-06-28 16:46 G 43856344.01 43856344.20 43856344.40 0.0060 0.0013

Uranus 115362-09-07 09:20 G 43856414.71 43856414.89 43856415.06 0.0139 0.0034

Pluto 115362-09-24 18:12 G 43856432.08 43856432.26 43856432.45 0.0060 0.0022

Uranus 115362-12-04 15:48 G 43856503.01 43856503.16 43856503.33 0.0139 0.0061

Pluto 115362-12-21 19:10 G 43856520.15 43856520.30 43856520.49 0.0060 0.0032

Uranus 115363-03-02 22:46 G 43856591.31 43856591.45 43856591.60 0.0139 0.0086

Pluto 115363-03-19 20:36 G 43856608.24 43856608.36 43856608.52 0.0060 0.0041

Uranus 115363-05-30 05:29 G 43856679.64 43856679.73 43856679.85 0.0139 0.0112

Pluto 115363-06-15 22:03 G 43856696.33 43856696.42 43856696.54 0.0060 0.0051

Uranus 115363-08-26 12:12 G 43856768.01 43856768.01 43856768.05 0.0139 0.0138

Pluto 115363-09-11 23:29 G 43856784.48 43856784.48 43856784.52 0.0060 0.0060

Saturn 115366-09-04 23:44 G 43857873.47 43857873.49 43857873.52 0.0286 0.0281

Saturn 115366-12-02 12:41 G 43857961.91 43857962.03 43857962.16 0.0286 0.0115

Saturn 115367-03-01 01:24 G 43858050.43 43858050.56 43858050.70 0.0287 0.0050

Jupiter 115367-04-06 03:34 G 43858086.48 43858086.65 43858086.83 0.0498 0.0039

Saturn 115367-05-28 13:53 G 43858139.00 43858139.08 43858139.18 0.0287 0.0214

Mars 115367-11-24 04:17 G 43858318.56 43858318.68 43858318.79 0.1857 0.0251

Moon 115368-08-10 14:51 G 43858579.01 43858579.12 43858579.23 0.2657 0.0711

Earth 115368-08-10 15:05 G 43858579.02 43858579.13 43858579.24 0.2664 0.0647 *

Earth 115371-02-12 02:36 G 43859494.58 43859494.61 43859494.63 0.2668 0.2610

Jupiter 115372-09-12 18:27 G 43860073.18 43860073.27 43860073.37 0.0532 0.0368

Jupiter 115372-12-11 03:48 G 43860162.56 43860162.66 43860162.77 0.0529 0.0317

Mars 115377-04-15 12:56 G 43861748.94 43861749.04 43861749.15 0.1865 0.0803

Mars 115378-05-12 06:12 G 43862140.60 43862140.76 43862140.92 0.1685 0.0450

Jupiter 115379-01-23 02:51 G 43862396.45 43862396.62 43862396.79 0.0496 0.0147

Saturn 115380-12-25 10:46 G 43863098.95 43863098.95 43863098.96 0.0274 0.0273

Saturn 115381-03-24 06:12 G 43863187.59 43863187.76 43863187.93 0.0273 0.0090

Saturn 115381-06-21 01:39 G 43863276.41 43863276.57 43863276.74 0.0273 0.0097

Moon 115381-08-13 08:36 G 43863329.75 43863329.86 43863329.96 0.2661 0.1019

Earth 115381-08-13 09:20 G 43863329.78 43863329.89 43863329.99 0.2662 0.1092 *

Moon 115384-02-15 05:58 G 43864245.60 43864245.75 43864245.90 0.2667 0.0505

Earth 115384-02-15 07:24 G 43864245.66 43864245.81 43864245.95 0.2670 0.0623 *

Jupiter 115384-09-29 06:41 G 43864472.65 43864472.78 43864472.91 0.0530 0.0135

Venus 115386-11-28 21:34 G 43865263.32 43865263.40 43865263.48 0.3705 0.2371

Mars 115387-10-02 06:27 G 43865570.63 43865570.77 43865570.91 0.1678 0.0852

Jupiter 115390-11-11 01:53 G 43866706.45   43866706.58   43866706.71 0.0496 0.0331

Jupiter 115391-02-09 04:17 G 43866796.59   43866796.68   43866796.78 0.0498 0.0419

Venus   115392-06-13 14:22 G 43867287.00   43867287.10   43867287.21 0.3702 0.0601

Moon   115394-08-16 02:51 G 43868080.61   43868080.62   43868080.62 0.2665 0.2651

Saturn   115396-04-20 16:17 G 43868694.06   43868694.18   43868694.30 0.0286 0.0141

Saturn   115396-07-18 05:15 G 43868782.58   43868782.72   43868782.85 0.0286 0.0026

Jupiter 115396-07-18 10:03 G 43868782.79   43868782.92   43868783.05 0.0531 0.0033 *

Saturn   115396-10-14 17:44 G 43868871.14   43868871.24   43868871.34 0.0286 0.0187

Venus   115397-12-28 07:10 G 43869310.70   43869310.80   43869310.90 0.3698 0.1122

Mars   115398-01-01 19:24 G 43869315.23   43869315.31   43869315.38 0.1848 0.1386

Moon   115401-08-10 01:10 G 43870630.48   43870630.55   43870630.62 0.2660 0.2047

Earth   115401-08-10 01:39 G 43870630.50   43870630.57   43870630.64 0.2665 0.2032 *

Neptune 115402-08-31 17:15 G 43871017.18   43871017.22   43871017.28 0.0089 0.0086

Neptune 115402-11-27 20:22 G 43871105.27   43871105.35   43871105.45 0.0089 0.0077

Jupiter 115402-11-29 02:22 G 43871106.44   43871106.60   43871106.76 0.0498 0.0217

Neptune 115403-02-23 23:29 G 43871193.37   43871193.48   43871193.61 0.0089 0.0068

Neptune 115403-05-23 02:36 G 43871281.48   43871281.61   43871281.76 0.0089 0.0059

Venus   115403-07-14 23:44 G 43871334.42   43871334.49   43871334.56 0.3694 0.2791

Neptune 115403-08-19 05:44 G 43871369.60   43871369.74   43871369.90 0.0089 0.0050

Neptune 115403-11-15 08:51 G 43871457.72   43871457.87   43871458.04 0.0089 0.0041

Neptune 115404-02-11 11:58 G 43871545.84   43871546.00   43871546.18 0.0089 0.0032

Uranus   115404-04-01 20:51 G 43871596.32   43871596.37   43871596.42 0.0138 0.0128

Neptune 115404-05-09 15:20 G 43871633.97   43871634.14   43871634.32 0.0089 0.0022

Uranus   115404-06-29 00:27 G 43871684.45   43871684.52   43871684.62 0.0138 0.0109

Neptune 115404-08-05 18:27 G 43871722.10   43871722.27   43871722.46 0.0089 0.0013

Uranus   115404-09-25 04:32 G 43871772.58   43871772.69   43871772.80 0.0139 0.0088

Neptune 115404-11-01 21:48 G 43871810.23   43871810.41   43871810.59 0.0089 0.0003

Uranus   115404-12-22 08:22 G 43871860.73   43871860.85   43871860.97 0.0139 0.0069

Venus   115405-01-27 11:44 G 43871896.85   43871896.99   43871897.12 0.3673 0.1159

Neptune 115405-01-29 00:56 G 43871898.36   43871898.54   43871898.73 0.0089 0.0006

Uranus 115405-03-20 12:12 G 43871948.88 43871949.01 43871949.14 0.0139 0.0049

Neptune 115405-04-27 04:03 G 43871986.49 43871986.67 43871986.86 0.0089 0.0015

Uranus 115405-06-16 15:48 G 43872037.03 43872037.16 43872037.30 0.0139 0.0030

Neptune 115405-07-24 07:24 G 43872074.63 43872074.81 43872074.99 0.0089 0.0025

Uranus 115405-09-12 19:39 G 43872125.18 43872125.32 43872125.46 0.0139 0.0010

Neptune 115405-10-20 10:17 G 43872162.77 43872162.93 43872163.12 0.0089 0.0035

Uranus 115405-12-09 23:29 G 43872213.34 43872213.48 43872213.62 0.0139 0.0010

Neptune 115406-01-16 13:39 G 43872250.92 43872251.07 43872251.24 0.0089 0.0044

Uranus 115406-03-08 03:05 G 43872301.50 43872301.63 43872301.77 0.0139 0.0030

Neptune 115406-04-14 17:15 G 43872339.07 43872339.22 43872339.36 0.0089 0.0053

Uranus 115406-06-04 06:56 G 43872389.66 43872389.79 43872389.92 0.0139 0.0049

Neptune 115406-07-11 20:08 G 43872427.22 43872427.34 43872427.48 0.0089 0.0062

Uranus 115406-08-31 10:32 G 43872477.82 43872477.94 43872478.06 0.0139 0.0068

Neptune 115406-10-07 23:29 G 43872515.38 43872515.48 43872515.60 0.0089 0.0072

Uranus 115406-11-27 14:08 G 43872565.99 43872566.09 43872566.20 0.0139 0.0087

Neptune 115407-01-04 02:36 G 43872603.55 43872603.61 43872603.70 0.0089 0.0081

Uranus 115407-02-23 17:58 G 43872654.16 43872654.25 43872654.34 0.0139 0.0106

Uranus 115407-05-22 21:34 G 43872742.35 43872742.40 43872742.46 0.0139 0.0126

Mars 115407-05-26 04:17 G 43872745.56 43872745.68 43872745.79 0.1857 0.0371

Jupiter 115408-05-07 13:39 G 43873092.95 43873093.07 43873093.20 0.0532 0.0197

Jupiter 115408-08-04 22:46 G 43873182.40 43873182.45 43873182.51 0.0529 0.0479

Saturn 115410-08-12 05:58 G 43873919.60 43873919.75 43873919.90 0.0273 0.0142

Venus 115410-08-13 16:17 G 43873921.09 43873921.18 43873921.27 0.3678 0.2783

Saturn 115410-11-09 01:24 G 43874008.38 43874008.56 43874008.73 0.0273 0.0043

Saturn 115411-02-05 21:05 G 43874097.29 43874097.38 43874097.48 0.0273 0.0230

Moon 115414-08-12 19:10 G 43875381.19 43875381.30 43875381.41 0.2665 0.0455

Earth 115414-08-12 19:53 G 43875381.22 43875381.33 43875381.44 0.2664 0.0276 *

Jupiter 115414-09-17 01:24 G 43875416.38 43875416.56 43875416.73 0.0497 0.0031

Mars 115416-10-15 12:56 G 43876175.93 43876176.04 43876176.15 0.1865 0.0687

Moon 115417-02-13 07:10 G 43876296.72 43876296.80 43876296.88 0.2669 0.2243

Earth 115417-02-13 08:51 G 43876296.77 43876296.87 43876296.97 0.2668 0.1985 *

Mars 115417-11-11 06:56 G 43876567.64 43876567.79 43876567.95 0.1686 0.0628

Jupiter 115420-02-24 16:46 G 43877403.11 43877403.20 43877403.30 0.0532 0.0371

Jupiter 115420-05-24 02:22 G 43877492.50 43877492.60 43877492.71 0.0529 0.0315

Saturn 115425-09-08 17:29 G 43879426.13 43879426.23 43879426.33 0.0286 0.0198

Saturn 115425-12-06 06:12 G 43879514.63 43879514.76 43879514.90 0.0286 0.0033

Saturn 115426-03-04 18:56 G 43879603.17 43879603.29 43879603.41 0.0287 0.0132

Mars 115426-03-07 21:20 G 43879606.36 43879606.39 43879606.43 0.1873 0.1769

Jupiter 115426-07-06 00:41 G 43879726.36 43879726.53 43879726.69 0.0497 0.0151

Mars 115427-04-03 07:24 G 43879997.66 43879997.81 43879997.96 0.1679 0.0661

Moon 115427-08-15 13:53 G 43880131.99 43880132.08 43880132.18 0.2669 0.1502

Earth 115427-08-15 14:08 G 43880131.99 43880132.09 43880132.18 0.2662 0.1446 *

Moon 115430-02-16 13:24 G 43881047.93 43881048.06 43881048.19 0.2677 0.1274

Earth 115430-02-16 13:39 G 43881047.93 43881048.07 43881048.20 0.2670 0.1266 *

Jupiter 115432-03-12 05:44 G 43881802.61 43881802.74 43881802.87 0.0530 0.0146

Mars 115437-07-03 19:24 G 43883742.25 43883742.31 43883742.38 0.1848 0.1516

Venus 115437-12-21 02:22 G 43883912.57 43883912.60 43883912.62 0.3708 0.3605

Jupiter 115438-04-23 23:58 G 43884036.38 43884036.50 43884036.63 0.0496 0.0330

Jupiter 115438-07-23 02:36 G 43884126.51 43884126.61 43884126.70 0.0499 0.0420

Saturn 115439-12-30 06:12 G 43884651.64 43884651.76 43884651.89 0.0273 0.0189

Saturn 115440-03-28 01:39 G 43884740.40 43884740.57 43884740.75 0.0273 0.0005

Saturn 115440-06-24 21:20 G 43884829.26 43884829.39 43884829.53 0.0273 0.0183

Venus 115443-07-06 19:24 G 43885936.21 43885936.31 43885936.40 0.3704 0.1794

Jupiter 115443-12-30 08:08 G 43886112.71 43886112.84 43886112.98 0.0531 0.0042

Uranus 115445-01-18 17:44 G 43886498.21 43886498.24 43886498.29 0.0140 0.0136

Uranus 115445-04-17 00:27 G 43886586.41 43886586.52 43886586.63 0.0140 0.0111

Uranus 115445-07-14 06:56 G 43886674.65 43886674.79 43886674.93 0.0139 0.0086

Uranus 115445-10-10 13:39 G 43886762.91 43886763.07 43886763.23 0.0139 0.0061

Uranus 115446-01-06 20:22 G 43886851.17 43886851.35 43886851.52 0.0139 0.0036

Uranus 115446-04-05 02:51 G 43886939.45 43886939.62 43886939.80 0.0139 0.0011

Uranus 115446-07-02 09:34 G 43887027.73 43887027.90 43887028.08 0.0139 0.0016

Uranus 115446-09-28 16:17 G 43887116.01 43887116.18 43887116.36 0.0139 0.0041

Mars 115446-11-24 04:17 G 43887172.57 43887172.68 43887172.79 0.1856 0.0498

Uranus 115446-12-25 23:15 G 43887204.31 43887204.47 43887204.63 0.0139 0.0067

Uranus 115447-03-24 05:58 G 43887292.62 43887292.75 43887292.89 0.0139 0.0092

Uranus 115447-06-20 12:56 G 43887380.95 43887381.04 43887381.14 0.0139 0.0118

Moon 115447-08-11 05:58 G 43887432.67 43887432.75 43887432.83 0.2670 0.1777

Earth 115447-08-11 06:27 G 43887432.69 43887432.77 43887432.86 0.2665 0.1664 *

Venus 115449-01-19 12:12 G 43887959.90 43887960.01 43887960.12 0.3701 0.0072

Jupiter 115450-05-11 00:56 G 43888436.39 43888436.54 43888436.70 0.0498 0.0226

Venus 115454-08-05 04:46 G 43889983.61 43889983.70 43889983.80 0.3697 0.1675

Saturn 115455-01-26 21:05 G 43890158.30 43890158.38 43890158.47 0.0286 0.0223

Saturn 115455-04-25 10:03 G 43890246.79 43890246.92 43890247.06 0.0286 0.0057

Saturn 115455-07-22 22:46 G 43890335.32 43890335.45 43890335.58 0.0286 0.0107

Jupiter 115455-10-18 11:15 G 43890422.85 43890422.97 43890423.10 0.0532 0.0214

Saturn 115455-10-19 11:15 G 43890423.93 43890423.97 43890424.01 0.0287 0.0270

Jupiter 115456-01-15 20:36 G 43890512.30 43890512.36 43890512.42 0.0529 0.0464

Mars 115456-04-15 12:56 G 43890602.93 43890603.04 43890603.15 0.1865 0.0562

Pluto 115457-01-08 19:10 G 43890871.24 43890871.30 43890871.38 0.0085 0.0070

Pluto 115457-04-06 20:22 G 43890959.26 43890959.35 43890959.47 0.0085 0.0052

Mars 115457-05-12 07:53 G 43890994.68 43890994.83 43890994.97 0.1686 0.0814

Pluto 115457-07-03 21:48 G 43891047.29 43891047.41 43891047.53 0.0085 0.0034

Pluto 115457-09-29 23:00 G 43891135.33 43891135.46 43891135.59 0.0085 0.0016

Pluto 115457-12-27 00:12 G 43891223.38 43891223.51 43891223.64 0.0085 0.0002

Pluto 115458-03-25 01:24 G 43891311.44 43891311.56 43891311.69 0.0084 0.0019

Pluto 115458-06-21 02:36 G 43891399.50 43891399.61 43891399.73 0.0084 0.0037

Pluto 115458-09-17 03:34 G 43891487.56 43891487.65 43891487.76 0.0084 0.0054

Pluto 115458-12-14 04:46 G 43891575.64 43891575.70 43891575.78 0.0084 0.0072

Venus 115460-02-18 21:20 G 43892007.35 43892007.39 43892007.44 0.3693 0.3330

Earth 115460-08-13 00:56 G 43892183.42 43892183.54 43892183.65 0.2663 0.0128

Moon 115460-08-13 01:10 G 43892183.44 43892183.55 43892183.66 0.2669 0.0174 *

Venus 115461-09-03 12:41 G 43892569.88 43892570.03 43892570.17 0.3674 0.0108

Jupiter 115462-02-26 23:00 G 43892746.29 43892746.46 43892746.63 0.0497 0.0024

Earth 115463-02-14 15:05 G 43893099.00 43893099.13 43893099.26 0.2668 0.1351

Moon 115463-02-14 15:48 G 43893099.03 43893099.16 43893099.29 0.2674 0.1163 *

Mars 115465-09-05 21:20 G 43894033.34 43894033.39 43894033.45 0.1873 0.1644

Mars 115466-10-02 08:08 G 43894424.68 43894424.84 43894425.00 0.1679 0.0489

Jupiter 115467-08-06 14:51 G 43894733.03 43894733.12 43894733.22 0.0533 0.0380

Jupiter 115467-11-04 00:27 G 43894822.42 43894822.52 43894822.63 0.0530 0.0308

Saturn 115469-05-18 06:41 G 43895383.70 43895383.78 43895383.88 0.0273 0.0234

Saturn 115469-08-15 02:08 G 43895472.42 43895472.59 43895472.77 0.0273 0.0050

Saturn 115469-11-11 21:34 G 43895561.25 43895561.40 43895561.56 0.0273 0.0136

Earth 115473-08-15 18:56 G 43896934.21 43896934.29 43896934.37 0.2661 0.1806

Moon 115473-08-15 19:39 G 43896934.24 43896934.32 43896934.40 0.2660 0.1913 *

Jupiter 115473-12-15 22:03 G 43897056.26 43897056.42 43897056.59 0.0496 0.0159

Earth 115476-02-17 19:53 G 43897850.23 43897850.33 43897850.44 0.2671 0.1918

Moon 115476-02-17 21:34 G 43897850.30 43897850.40 43897850.49 0.2671 0.2062 *

Mars 115477-01-01 19:24 G 43898169.26 43898169.31 43898169.36 0.1848 0.1633

Jupiter 115479-08-23 04:03 G 43899132.54 43899132.67 43899132.80 0.0530 0.0142

Neptune 115483-04-02 16:03 G 43900451.15 43900451.17 43900451.23 0.0088 0.0084

Neptune 115483-06-29 17:44 G 43900539.18 43900539.24 43900539.32 0.0088 0.0077

Neptune 115483-09-25 19:10 G 43900627.23 43900627.30 43900627.40 0.0088 0.0071

Neptune 115483-12-22 20:51 G 43900715.28 43900715.37 43900715.48 0.0088 0.0063

Neptune 115484-03-19 22:32 G 43900803.34 43900803.44 43900803.55 0.0088 0.0056

Saturn 115484-06-14 22:17 G 43900890.41 43900890.43 43900890.46 0.0286 0.0280

Neptune 115484-06-15 23:58 G 43900891.39 43900891.50 43900891.62 0.0088 0.0049

Saturn 115484-09-11 11:15 G 43900978.84 43900978.97 43900979.10 0.0286 0.0113

Neptune 115484-09-12 01:39 G 43900979.45 43900979.57 43900979.69 0.0088 0.0042

Saturn 115484-12-08 23:58 G 43901067.37 43901067.50 43901067.64 0.0287 0.0052

Neptune 115484-12-09 03:05 G 43901067.50 43901067.63 43901067.76 0.0088 0.0036 *

Neptune 115485-03-07 04:32 G 43901155.56 43901155.69 43901155.83 0.0088 0.0029

Saturn 115485-03-07 12:27 G 43901155.94 43901156.02 43901156.11 0.0287 0.0215

Neptune 115485-06-03 05:58 G 43901243.62 43901243.75 43901243.89 0.0088 0.0022

Neptune 115485-08-30 07:39 G 43901331.68 43901331.82 43901331.95 0.0088 0.0015

Jupiter 115485-10-03 21:34 G 43901366.28 43901366.40 43901366.52 0.0496 0.0338

Neptune 115485-11-26 09:05 G 43901419.74 43901419.88 43901420.02 0.0088 0.0008

Jupiter 115486-01-01 23:58 G 43901456.40 43901456.50 43901456.60 0.0499 0.0412

Neptune 115486-02-22 10:32 G 43901507.80 43901507.94 43901508.08 0.0088 0.0002

Neptune 115486-05-21 11:58 G 43901595.86 43901596.00 43901596.14 0.0088 0.0005

Mars 115486-05-25 04:17 G 43901599.57 43901599.68 43901599.79 0.1856 0.0615

Neptune 115486-08-17 13:24 G 43901683.93 43901684.06 43901684.20 0.0088 0.0012

Neptune 115486-11-13 14:51 G 43901771.99 43901772.12 43901772.26 0.0088 0.0019

Neptune 115487-02-09 16:17 G 43901860.05 43901860.18 43901860.32 0.0088 0.0025

Neptune 115487-05-08 17:44 G 43901948.12 43901948.24 43901948.37 0.0088 0.0032

Neptune 115487-08-04 19:10 G 43902036.18 43902036.30 43902036.43 0.0088 0.0039

Neptune 115487-10-31 20:36 G 43902124.25 43902124.36 43902124.48 0.0088 0.0045

Neptune 115488-01-27 22:03 G 43902212.32 43902212.42 43902212.54 0.0088 0.0052

Uranus 115488-04-22 04:03 G 43902297.61 43902297.67 43902297.74 0.0138 0.0123

Neptune 115488-04-24 23:44 G 43902300.39 43902300.49 43902300.59 0.0088 0.0058

Uranus 115488-07-19 07:53 G 43902385.74 43902385.83 43902385.93 0.0138 0.0103

Neptune 115488-07-22 00:56 G 43902388.46 43902388.54 43902388.64 0.0088 0.0065

Uranus 115488-10-15 11:44 G 43902473.88 43902473.99 43902474.11 0.0138 0.0083

Neptune 115488-10-18 02:08 G 43902476.53 43902476.59 43902476.68 0.0088 0.0072

Uranus 115489-01-11 15:34 G 43902562.03 43902562.15 43902562.28 0.0139 0.0063

Neptune 115489-01-14 03:48 G 43902564.61 43902564.66 43902564.73 0.0088 0.0078

Uranus 115489-04-09 19:24 G 43902650.18 43902650.31 43902650.45 0.0139 0.0044

Neptune 115489-04-12 05:00 G 43902652.69 43902652.71 43902652.76 0.0088 0.0085

Uranus 115489-07-06 23:15 G 43902738.33 43902738.47 43902738.61 0.0139 0.0024

Uranus 115489-10-03 03:05 G 43902826.49 43902826.63 43902826.77 0.0139 0.0004

Uranus 115489-12-30 06:41 G 43902914.65 43902914.78 43902914.92 0.0139 0.0016

Uranus 115490-03-28 10:32 G 43903002.81 43903002.94 43903003.07 0.0139 0.0035

Uranus 115490-06-24 14:08 G 43903090.97 43903091.09 43903091.22 0.0139 0.0054

Uranus 115490-09-20 17:58 G 43903179.13 43903179.25 43903179.37 0.0139 0.0073

Uranus 115490-12-17 21:20 G 43903267.30 43903267.39 43903267.50 0.0139 0.0093

Uranus 115491-03-16 01:10 G 43903355.48 43903355.55 43903355.64 0.0139 0.0112

Jupiter 115491-06-11 07:10 G 43903442.66 43903442.80 43903442.93 0.0531 0.0032

Uranus 115491-06-12 04:46 G 43903443.66 43903443.70 43903443.75 0.0139 0.0131

Earth 115493-08-11 11:29 G 43904234.88 43904234.98 43904235.08 0.2665 0.1290

Moon 115493-08-11 12:12 G 43904234.91 43904235.01 43904235.11 0.2667 0.1237 *

Venus 115494-07-28 00:12 G 43904585.45 43904585.51 43904585.57 0.3707 0.3004

Mars 115495-10-15 13:10 G 43905029.93 43905030.05 43905030.16 0.1864 0.0426

Mars 115496-11-10 08:22 G 43905421.72 43905421.85 43905421.99 0.1686 0.0987

Jupiter 115497-10-20 23:00 G 43905766.30 43905766.46 43905766.61 0.0498 0.0224

Saturn 115499-01-02 02:08 G 43906204.43 43906204.59 43906204.76 0.0273 0.0100

Saturn 115499-03-31 21:48 G 43906293.24 43906293.41 43906293.58 0.0273 0.0086

Venus 115500-02-10 17:15 G 43906609.12 43906609.22 43906609.32 0.3703 0.1218

Jupiter 115503-03-31 09:20 G 43907752.77 43907752.89 43907753.02 0.0532 0.0222

Jupiter 115503-06-28 18:41 G 43907842.21 43907842.28 43907842.34 0.0529 0.0456

Mars 115505-03-07 21:20 G 43908460.33 43908460.39 43908460.46 0.1872 0.1520

Venus 115505-08-27 10:03 G 43908632.81 43908632.92 43908633.02 0.3700 0.0546

Mars 115506-04-03 08:51 G 43908851.70 43908851.87 43908852.03 0.1679 0.0320

Earth 115506-08-15 05:44 G 43908985.63 43908985.74 43908985.85 0.2663 0.0454

Moon 115506-08-15 06:12 G 43908985.65 43908985.76 43908985.87 0.2659 0.0626 *

Earth 115509-02-15 21:20 G 43909901.24 43909901.39 43909901.53 0.2669 0.0720

Moon 115509-02-15 22:32 G 43909901.29 43909901.44 43909901.59 0.2665 0.0432 *

Jupiter 115509-08-09 21:34 G 43910076.23 43910076.40 43910076.58 0.0497 0.0034

Venus 115511-03-13 02:36 G 43910656.53 43910656.61 43910656.69 0.3696 0.2219

Venus 115512-09-25 09:20 G 43911218.79 43911218.89 43911218.99 0.3671 0.2555

Saturn 115514-01-30 15:05 G 43911711.01 43911711.13 43911711.25 0.0286 0.0137

Saturn 115514-04-29 03:48 G 43911799.53 43911799.66 43911799.80 0.0286 0.0029

Saturn 115514-07-26 16:32 G 43911888.09 43911888.19 43911888.29 0.0287 0.0192

Jupiter 115515-01-17 12:27 G 43912062.93 43912063.02 43912063.11 0.0533 0.0398

Jupiter 115515-04-16 22:03 G 43912152.31 43912152.42 43912152.53 0.0530 0.0292

Mars 115515-08-24 09:20 G 43912281.84 43912281.89 43912281.95 0.1672 0.1567

Mars 115516-07-03 19:24 G 43912596.28 43912596.31 43912596.34 0.1848 0.1752

Venus 115518-04-11 13:24 G 43913242.93 43913243.06 43913243.20 0.3676 0.1264

Moon 115519-08-17 23:29 G 43913736.41 43913736.48 43913736.55 0.2655 0.2046

Earth 115519-08-17 23:44 G 43913736.43 43913736.49 43913736.56 0.2661 0.2168 *

Jupiter 115521-05-28 19:39 G 43914386.16 43914386.32 43914386.49 0.0496 0.0167

Moon 115522-02-19 01:53 G 43914652.51 43914652.58 43914652.64 0.2665 0.2403

Earth 115522-02-19 02:22 G 43914652.56 43914652.60 43914652.63 0.2671 0.2581 *

Mars 115525-11-24 04:17 G 43916026.58 43916026.68 43916026.79 0.1856 0.0747

Moon 115526-08-10 22:46 G 43916286.41 43916286.45 43916286.48 0.2666 0.2528

Jupiter 115527-02-03 01:53 G 43916462.45 43916462.58 43916462.71 0.0531 0.0133

Saturn 115528-05-22 03:20 G 43916936.49 43916936.64 43916936.79 0.0273 0.0139

Saturn 115528-08-18 22:46 G 43917025.28 43917025.45 43917025.63 0.0273 0.0046

Saturn 115528-11-15 18:27 G 43917114.18 43917114.27 43917114.36 0.0273 0.0232

Uranus 115529-02-09 00:27 G 43917199.47 43917199.52 43917199.59 0.0140 0.0131

Uranus 115529-05-08 07:10 G 43917287.69 43917287.80 43917287.91 0.0139 0.0106

Uranus 115529-08-04 13:24 G 43917375.93 43917376.06 43917376.22 0.0139 0.0082

Uranus 115529-10-31 20:08 G 43917464.19 43917464.34 43917464.51 0.0139 0.0056

Uranus 115530-01-28 02:51 G 43917552.45 43917552.62 43917552.80 0.0139 0.0031

Uranus 115530-04-26 09:34 G 43917640.72 43917640.90 43917641.08 0.0139 0.0006

Uranus 115530-07-23 16:17 G 43917729.01 43917729.18 43917729.36 0.0139 0.0021

Uranus 115530-10-19 23:00 G 43917817.30 43917817.46 43917817.64 0.0139 0.0046

Uranus 115531-01-16 05:44 G 43917905.59 43917905.74 43917905.90 0.0139 0.0072

Uranus 115531-04-14 12:41 G 43917993.91 43917994.03 43917994.16 0.0139 0.0097

Uranus 115531-07-11 19:39 G 43918082.24 43918082.32 43918082.40 0.0139 0.0123

Jupiter 115533-03-16 18:56 G 43918696.17 43918696.29 43918696.42 0.0496 0.0346

Jupiter 115533-06-14 21:20 G 43918786.29 43918786.39 43918786.49 0.0498 0.0401

Mars 115535-04-16 12:56 G 43919456.93 43919457.04 43919457.16 0.1864 0.0314

Mars 115536-05-12 09:20 G 43919848.77 43919848.89 43919849.01 0.1687 0.1175

Jupiter 115538-11-22 05:29 G 43920772.59 43920772.73 43920772.86 0.0531 0.0038

Earth 115539-08-13 16:17 G 43921037.08 43921037.18 43921037.29 0.2665 0.0924

Moon 115539-08-13 16:46 G 43921037.09 43921037.20 43921037.30 0.2658 0.0909 *

Saturn 115543-06-19 16:03 G 43922443.07 43922443.17 43922443.27 0.0286 0.0195

Saturn 115543-09-16 05:00 G 43922531.57 43922531.71 43922531.84 0.0286 0.0029

Saturn 115543-12-13 17:29 G 43922620.12 43922620.23 43922620.36 0.0287 0.0136

Mars 115544-09-05 21:34 G 43922887.32 43922887.40 43922887.47 0.1873 0.1387

Jupiter 115545-04-02 20:22 G 43923096.19 43923096.35 43923096.51 0.0498 0.0214

Mars 115545-10-02 09:34 G 43923278.73 43923278.90 43923279.07 0.1679 0.0129

Jupiter 115550-09-10 08:22 G 43925082.73 43925082.85 43925082.98 0.0532 0.0211

Jupiter 115550-12-08 17:44 G 43925172.18 43925172.24 43925172.30 0.0529 0.0466

Venus 115551-03-04 22:03 G 43925258.34 43925258.42 43925258.50 0.3706 0.2414

Moon 115552-08-15 10:03 G 43925787.81 43925787.92 43925788.02 0.2659 0.0764

Earth 115552-08-15 10:32 G 43925787.84 43925787.94 43925788.05 0.2663 0.0827 *

Moon 115555-02-17 02:22 G 43926703.45 43926703.60 43926703.75 0.2666 0.0272

Earth 115555-02-17 03:34 G 43926703.50 43926703.65 43926703.80 0.2669 0.0082 *

Mars 115555-02-22 10:03 G 43926708.83 43926708.92 43926709.00 0.1672 0.1406

Venus 115556-09-17 14:51 G 43927282.02 43927282.12 43927282.23 0.3702 0.0654

Jupiter 115557-01-19 19:39 G 43927406.14 43927406.32 43927406.49 0.0497 0.0032

Saturn 115557-10-09 03:05 G 43927668.52 43927668.63 43927668.76 0.0273 0.0191

Saturn 115558-01-05 22:46 G 43927757.27 43927757.45 43927757.62 0.0273 0.0008

Saturn 115558-04-04 18:12 G 43927846.13 43927846.26 43927846.40 0.0273 0.0181

Venus 115562-04-03 07:39 G 43929305.72 43929305.82 43929305.92 0.3699 0.1089

Jupiter 115562-06-29 10:46 G 43929392.86 43929392.95 43929393.03 0.0533 0.0404

Jupiter 115562-09-26 20:22 G 43929482.24 43929482.35 43929482.46 0.0530 0.0285

Mars 115565-05-25 04:17 G 43930453.58 43930453.68 43930453.78 0.1856 0.0866

Moon 115565-08-18 04:03 G 43930538.62 43930538.67 43930538.72 0.2664 0.2398

Earth 115565-08-18 04:32 G 43930538.66 43930538.69 43930538.73 0.2661 0.2529 *

Neptune 115567-05-29 15:48 G 43931188.11 43931188.16 43931188.26 0.0089 0.0082

Neptune 115567-08-25 18:56 G 43931276.21 43931276.29 43931276.42 0.0089 0.0073

Venus 115567-10-18 00:12 G 43931329.45 43931329.51 43931329.58 0.3695 0.2765

Neptune 115567-11-21 22:03 G 43931364.31 43931364.42 43931364.57 0.0089 0.0064

Neptune 115568-02-18 01:24 G 43931452.43 43931452.56 43931452.71 0.0089 0.0054

Neptune 115568-05-16 04:32 G 43931540.54 43931540.69 43931540.86 0.0089 0.0045

Neptune 115568-08-12 07:53 G 43931628.66 43931628.83 43931629.00 0.0089 0.0036

Jupiter 115568-11-07 18:27 G 43931716.11 43931716.27 43931716.43 0.0496 0.0157

Neptune 115568-11-08 11:00 G 43931716.79 43931716.96 43931717.14 0.0089 0.0026

Neptune 115569-02-04 14:08 G 43931804.91 43931805.09 43931805.27 0.0089 0.0017

Venus 115569-05-02 10:03 G 43931891.79 43931891.92 43931892.05 0.3672 0.1392

Neptune 115569-05-03 17:15 G 43931893.04 43931893.22 43931893.41 0.0089 0.0009

Neptune 115569-07-30 20:36 G 43931981.18 43931981.36 43931981.54 0.0089 0.0001

Neptune 115569-10-26 23:44 G 43932069.31 43932069.49 43932069.67 0.0089 0.0010

Neptune 115570-01-23 02:51 G 43932157.45 43932157.62 43932157.80 0.0089 0.0020

Neptune 115570-04-21 05:58 G 43932245.58 43932245.75 43932245.93 0.0089 0.0029

Neptune 115570-07-18 09:20 G 43932333.73 43932333.89 43932334.06 0.0089 0.0039

Neptune 115570-10-14 12:12 G 43932421.87 43932422.01 43932422.18 0.0089 0.0049

Neptune 115571-01-10 15:34 G 43932510.02 43932510.15 43932510.30 0.0089 0.0058

Neptune 115571-04-08 19:10 G 43932598.18 43932598.30 43932598.42 0.0089 0.0067

Neptune 115571-07-05 22:03 G 43932686.34 43932686.42 43932686.53 0.0089 0.0077

Neptune 115571-10-02 01:39 G 43932774.53 43932774.57 43932774.62 0.0089 0.0086

Uranus 115572-02-15 07:10 G 43932910.80 43932910.80 43932910.83 0.0138 0.0138

Uranus 115572-05-13 11:15 G 43932998.90 43932998.97 43932999.05 0.0138 0.0117

Uranus 115572-08-09 15:05 G 43933087.04 43933087.13 43933087.24 0.0138 0.0097

Moon 115572-08-11 02:51 G 43933088.57 43933088.62 43933088.66 0.2659 0.2372

Earth 115572-08-11 02:51 G 43933088.57 43933088.62 43933088.68 0.2666 0.2320 *

Uranus 115572-11-05 18:56 G 43933175.18 43933175.29 43933175.41 0.0138 0.0078

Saturn 115572-11-05 19:39 G 43933175.24 43933175.32 43933175.42 0.0286 0.0220 *

Uranus 115573-02-01 23:00 G 43933263.33 43933263.46 43933263.59 0.0138 0.0058

Saturn 115573-02-02 08:36 G 43933263.73 43933263.86 43933264.00 0.0286 0.0055

Uranus 115573-05-01 02:36 G 43933351.48 43933351.61 43933351.75 0.0139 0.0039

Saturn 115573-05-01 21:20 G 43933352.27 43933352.39 43933352.52 0.0287 0.0112

Uranus 115573-07-28 06:27 G 43933439.64 43933439.77 43933439.91 0.0139 0.0019

Saturn 115573-07-29 10:03 G 43933440.88 43933440.92 43933440.96 0.0287 0.0274

Uranus 115573-10-24 10:17 G 43933527.79 43933527.93 43933528.07 0.0139 0.0003

Uranus 115574-01-20 14:08 G 43933615.95 43933616.09 43933616.23 0.0139 0.0021

Uranus 115574-04-18 17:44 G 43933704.11 43933704.24 43933704.38 0.0139 0.0040

Uranus 115574-07-15 21:20 G 43933792.27 43933792.39 43933792.52 0.0139 0.0060

Jupiter 115574-07-15 23:44 G 43933792.36 43933792.49 43933792.62 0.0531 0.0117 *

Uranus 115574-10-12 01:10 G 43933880.44 43933880.55 43933880.67 0.0139 0.0079

Mars 115574-10-15 12:56 G 43933883.93 43933884.04 43933884.16 0.1864 0.0191

Venus 115574-11-16 14:22 G 43933916.00 43933916.10 43933916.21 0.3677 0.2481

Uranus 115575-01-08 04:46 G 43933968.61 43933968.70 43933968.80 0.0139 0.0098

Uranus 115575-04-06 08:36 G 43934056.79 43934056.86 43934056.93 0.0139 0.0117

Uranus 115575-07-03 12:12 G 43934144.99 43934145.01 43934145.04 0.0139 0.0136

Mars 115575-11-11 10:03 G 43934275.82 43934275.92 43934276.02 0.1687 0.1360

Jupiter 115580-08-26 16:32 G 43936026.08 43936026.19 43936026.32 0.0495 0.0354

Jupiter 115580-11-24 18:41 G 43936116.18 43936116.28 43936116.39 0.0498 0.0393

Mars 115584-03-06 21:34 G 43937314.31 43937314.40 43937314.48 0.1872 0.1262

Mars 115585-04-02 10:17 G 43937705.76 43937705.93 43937706.09 0.1679 0.0049

Moon 115585-08-13 20:36 G 43937839.25 43937839.36 43937839.47 0.2664 0.0653

Earth 115585-08-13 21:20 G 43937839.28 43937839.39 43937839.50 0.2664 0.0550 *

Jupiter 115586-05-04 03:20 G 43938102.51 43938102.64 43938102.78 0.0532 0.0047

Saturn 115587-02-26 04:46 G 43938400.61 43938400.70 43938400.80 0.0273 0.0225

Saturn 115587-05-26 00:12 G 43938489.33 43938489.51 43938489.68 0.0273 0.0042

Saturn 115587-08-22 19:39 G 43938578.17 43938578.32 43938578.47 0.0273 0.0143

Earth 115588-02-15 05:15 G 43938754.70 43938754.72 43938754.73 0.2667 0.2644

Jupiter 115592-09-12 17:44 G 43940426.08 43940426.24 43940426.40 0.0498 0.0203

Mars 115594-08-23 10:46 G 43941135.84 43941135.95 43941136.06 0.1672 0.1223

Jupiter 115598-02-20 06:41 G 43942412.66 43942412.78 43942412.90 0.0532 0.0216

Jupiter 115598-05-20 16:03 G 43942502.11 43942502.17 43942502.23 0.0529 0.0462

Moon 115598-08-16 15:05 G 43942590.03 43942590.13 43942590.23 0.2668 0.1087

Earth 115598-08-16 15:20 G 43942590.04 43942590.14 43942590.25 0.2662 0.1188 *

Moon 115601-02-17 09:05 G 43943505.73 43943505.88 43943506.03 0.2676 0.0341

Earth 115601-02-17 09:48 G 43943505.77 43943505.91 43943506.06 0.2669 0.0563 *

Saturn 115602-03-25 20:51 G 43943907.34 43943907.37 43943907.40 0.0286 0.0277

Venus 115602-03-26 02:51 G 43943907.60 43943907.62 43943907.64 0.3709 0.3644

Saturn 115602-06-22 09:48 G 43943995.79 43943995.91 43943996.04 0.0286 0.0110

Saturn 115602-09-18 22:32 G 43944084.31 43944084.44 43944084.58 0.0287 0.0056

Saturn 115602-12-16 11:15 G 43944172.88 43944172.97 43944173.06 0.0287 0.0218

Jupiter 115604-07-01 16:46 G 43944736.03 43944736.20 43944736.37 0.0497 0.0019

Mars 115604-11-23 04:17 G 43944880.58 43944880.68 43944880.78 0.1856 0.0993

Pluto 115606-06-21 18:56 G 43945456.25 43945456.29 43945456.36 0.0059 0.0057

Pluto 115606-09-17 20:22 G 43945544.24 43945544.35 43945544.48 0.0059 0.0048

Pluto 115606-12-14 21:34 G 43945632.27 43945632.40 43945632.57 0.0059 0.0039

Pluto 115607-03-12 23:00 G 43945720.30 43945720.46 43945720.65 0.0059 0.0030

Pluto 115607-06-09 00:27 G 43945808.35 43945808.52 43945808.72 0.0060 0.0021

Pluto 115607-09-05 01:53 G 43945896.40 43945896.58 43945896.79 0.0060 0.0012

Venus 115607-10-09 19:53 G 43945931.24 43945931.33 43945931.42 0.3705 0.1830

Pluto 115607-12-02 03:34 G 43945984.45 43945984.65 43945984.85 0.0060 0.0002

Pluto 115608-02-28 05:00 G 43946072.51 43946072.71 43946072.90 0.0060 0.0007

Pluto 115608-05-26 06:12 G 43946160.58 43946160.76 43946160.96 0.0060 0.0016

Pluto 115608-08-22 07:24 G 43946248.65 43946248.81 43946249.00 0.0060 0.0026

Pluto 115608-11-18 08:36 G 43946336.72 43946336.86 43946337.04 0.0060 0.0035

Pluto 115609-02-14 10:03 G 43946424.81 43946424.92 43946425.08 0.0060 0.0044

Pluto 115609-05-13 11:44 G 43946512.91 43946512.99 43946513.09 0.0060 0.0053

Jupiter 115609-12-09 09:48 G 43946722.82 43946722.91 43946723.00 0.0533 0.0393

Jupiter 115610-03-08 19:24 G 43946812.20 43946812.31 43946812.42 0.0529 0.0296

Uranus 115613-03-01 07:10 G 43947900.74 43947900.80 43947900.89 0.0140 0.0126

Venus 115613-04-24 12:41 G 43947954.93 43947955.03 43947955.14 0.3702 0.0108

Uranus 115613-05-28 13:53 G 43947988.96 43947989.08 43947989.21 0.0139 0.0101

Uranus 115613-08-24 20:22 G 43948077.21 43948077.35 43948077.51 0.0139 0.0076

Uranus 115613-11-21 03:05 G 43948165.47 43948165.63 43948165.80 0.0139 0.0050

Uranus 115614-02-17 09:48 G 43948253.74 43948253.91 43948254.09 0.0139 0.0025

Mars 115614-04-15 13:10 G 43948310.93 43948311.05 43948311.16 0.1864 0.0057

Uranus 115614-05-16 16:32 G 43948342.01 43948342.19 43948342.37 0.0139 0.0001

Uranus 115614-08-12 23:15 G 43948430.29 43948430.47 43948430.65 0.0139 0.0026

Uranus 115614-11-09 05:58 G 43948518.59 43948518.75 43948518.92 0.0139 0.0051

Uranus 115615-02-05 12:41 G 43948606.89 43948607.03 43948607.19 0.0139 0.0077

Uranus 115615-05-04 19:24 G 43948695.20 43948695.31 43948695.44 0.0139 0.0103

Mars 115615-05-12 10:46 G 43948702.88 43948702.95 43948703.01 0.1687 0.1536

Uranus 115615-08-01 02:22 G 43948783.54 43948783.60 43948783.67 0.0139 0.0129

Jupiter 115616-04-19 16:17 G 43949046.02 43949046.18 43949046.34 0.0496 0.0160

Saturn 115616-10-11 23:44 G 43949221.32 43949221.49 43949221.65 0.0273 0.0097

Saturn 115617-01-08 19:10 G 43949310.13 43949310.30 43949310.47 0.0273 0.0088

Moon 115618-08-12 07:10 G 43949890.73 43949890.80 43949890.87 0.2668 0.2128

Earth 115618-08-12 07:53 G 43949890.75 43949890.83 43949890.90 0.2666 0.1946 *

Venus 115618-11-08 05:29 G 43949978.63 43949978.73 43949978.82 0.3698 0.1638

Jupiter 115621-12-25 22:03 G 43951122.29 43951122.42 43951122.55 0.0530 0.0113

Mars 115623-09-05 21:34 G 43951741.31 43951741.40 43951741.49 0.1872 0.1140

Venus 115624-05-23 22:03 G 43952002.37 43952002.42 43952002.46 0.3694 0.3287

Mars 115624-10-01 10:46 G 43952132.79 43952132.95 43952133.12 0.1680 0.0219

Venus 115625-12-07 10:46 G 43952564.81 43952564.95 43952565.09 0.3674 0.0233

Jupiter 115628-02-06 15:20 G 43953356.02 43953356.14 43953356.27 0.0496 0.0343

Jupiter 115628-05-06 17:29 G 43953446.13 43953446.23 43953446.34 0.0498 0.0404

Moon 115631-08-15 02:08 G 43954641.48 43954641.59 43954641.71 0.2671 0.0138

Earth 115631-08-15 02:08 G 43954641.48 43954641.59 43954641.70 0.2664 0.0188 *

Saturn 115631-11-09 13:24 G 43954727.94 43954728.06 43954728.18 0.0286 0.0140

Saturn 115632-02-06 02:08 G 43954816.45 43954816.59 43954816.73 0.0286 0.0026

Saturn 115632-05-04 14:51 G 43954905.02 43954905.12 43954905.22 0.0287 0.0190

Jupiter 115633-10-14 01:10 G 43955432.41 43955432.55 43955432.68 0.0531 0.0060

Earth 115634-02-15 11:29 G 43955556.88 43955556.98 43955557.08 0.2668 0.2012

Moon 115634-02-15 11:44 G 43955556.89 43955556.99 43955557.10 0.2675 0.1901 *

Mars 115634-02-21 11:29 G 43955562.86 43955562.98 43955563.11 0.1673 0.1043

Jupiter 115640-02-23 15:05 G 43957755.98 43957756.13 43957756.30 0.0497 0.0197

Mars 115644-05-24 04:17 G 43959307.59 43959307.68 43959307.77 0.1855 0.1117

Earth 115644-08-16 20:22 G 43959392.26 43959392.35 43959392.44 0.2662 0.1546

Moon 115644-08-16 21:05 G 43959392.29 43959392.38 43959392.47 0.2662 0.1604 *

Jupiter 115645-08-02 04:32 G 43959742.57 43959742.69 43959742.82 0.0533 0.0227

Jupiter 115645-10-30 13:53 G 43959832.02 43959832.08 43959832.15 0.0529 0.0454

Saturn 115646-03-01 01:39 G 43959953.41 43959953.57 43959953.72 0.0273 0.0129

Saturn 115646-05-28 20:51 G 43960042.20 43960042.37 43960042.55 0.0273 0.0055

Saturn 115646-08-25 16:17 G 43960131.11 43960131.18 43960131.27 0.0273 0.0242

Earth 115647-02-18 16:17 G 43960308.04 43960308.18 43960308.31 0.2670 0.1211

Moon 115647-02-18 17:44 G 43960308.11 43960308.24 43960308.37 0.2671 0.1382 *

Neptune 115647-10-02 14:22 G 43960534.09 43960534.10 43960534.12 0.0088 0.0088

Neptune 115647-12-29 16:03 G 43960622.12 43960622.17 43960622.22 0.0088 0.0081

Neptune 115648-03-26 17:29 G 43960710.16 43960710.23 43960710.31 0.0088 0.0074

Neptune 115648-06-22 19:10 G 43960798.21 43960798.30 43960798.39 0.0088 0.0067

Neptune 115648-09-18 20:22 G 43960886.26 43960886.35 43960886.46 0.0088 0.0060

Neptune 115648-12-15 22:03 G 43960974.31 43960974.42 43960974.54 0.0088 0.0053

Neptune 115649-03-13 23:29 G 43961062.37 43961062.48 43961062.61 0.0088 0.0046

Neptune 115649-06-10 01:10 G 43961150.43 43961150.55 43961150.68 0.0088 0.0039

Neptune 115649-09-06 02:36 G 43961238.49 43961238.61 43961238.74 0.0088 0.0032

Neptune 115649-12-03 04:17 G 43961326.54 43961326.68 43961326.81 0.0088 0.0025

Neptune 115650-03-01 05:44 G 43961414.60 43961414.74 43961414.88 0.0088 0.0019

Neptune 115650-05-28 07:10 G 43961502.66 43961502.80 43961502.94 0.0088 0.0012

Neptune 115650-08-24 08:36 G 43961590.72 43961590.86 43961591.00 0.0088 0.0006

Neptune 115650-11-20 10:03 G 43961678.79 43961678.92 43961679.06 0.0088 0.0003

Neptune 115651-02-16 11:29 G 43961766.85   43961766.98   43961767.12 0.0088 0.0009

Neptune 115651-05-15 13:10 G 43961854.91   43961855.05   43961855.18 0.0088 0.0015

Neptune 115651-08-11 14:22 G 43961942.98   43961943.10   43961943.24 0.0088 0.0023

Neptune 115651-11-07 16:03 G 43962031.04   43962031.17   43962031.30 0.0088 0.0029

Jupiter 115651-12-12 14:22 G 43962065.92   43962066.10   43962066.27 0.0497 0.0012

Neptune 115652-02-03 17:29 G 43962119.10   43962119.23   43962119.36 0.0088 0.0035

Neptune 115652-05-01 18:41 G 43962207.17   43962207.28   43962207.41 0.0088 0.0042

Neptune 115652-07-28 20:22 G 43962295.24   43962295.35   43962295.47 0.0088 0.0048

Neptune 115652-10-24 21:34 G 43962383.31   43962383.40   43962383.52 0.0088 0.0056

Neptune 115653-01-20 23:00 G 43962471.38   43962471.46   43962471.57 0.0088 0.0062

Neptune 115653-04-19 00:27 G 43962559.45   43962559.52   43962559.62 0.0088 0.0069

Neptune 115653-07-16 01:53 G 43962647.52   43962647.58   43962647.66 0.0088 0.0075

Neptune 115653-10-12 03:20 G 43962735.60   43962735.64   43962735.70 0.0088 0.0082

Mars   115653-10-14 12:56 G 43962737.93   43962738.04   43962738.16 0.1864 0.0097

Neptune 115654-01-08 04:46 G 43962823.70   43962823.70   43962823.72 0.0088 0.0088

Uranus   115656-03-06 14:36 G 43963612.08   43963612.11   43963612.16 0.0138 0.0132

Uranus   115656-06-02 18:41 G 43963700.20   43963700.28   43963700.36 0.0138 0.0111

Uranus   115656-08-29 22:32 G 43963788.34   43963788.44   43963788.55 0.0138 0.0092

Uranus   115656-11-26 02:22 G 43963876.48   43963876.60   43963876.72 0.0138 0.0072

Uranus   115657-02-22 06:12 G 43963964.63   43963964.76   43963964.89 0.0139 0.0052

Jupiter 115657-05-21 07:53 G 43964052.75   43964052.83   43964052.92 0.0533 0.0398

Uranus   115657-05-21 10:03 G 43964052.79   43964052.92   43964053.06 0.0139 0.0032 *

Uranus   115657-08-17 13:53 G 43964140.94   43964141.08   43964141.22 0.0139 0.0013

Jupiter 115657-08-18 17:44 G 43964142.13   43964142.24   43964142.35 0.0530 0.0293

Uranus   115657-11-13 17:44 G 43964229.10   43964229.24   43964229.38 0.0139 0.0007

Uranus   115658-02-09 21:20 G 43964317.26   43964317.39   43964317.53 0.0139 0.0027

Uranus   115658-05-09 01:10 G 43964405.42   43964405.55   43964405.68 0.0139 0.0046

Uranus   115658-08-05 04:46 G 43964493.58   43964493.70   43964493.83 0.0139 0.0065

Venus   115658-10-31 00:41 G 43964580.47   43964580.53   43964580.59 0.3708 0.3049

Uranus   115658-11-01 08:36 G 43964581.75   43964581.86   43964581.97 0.0139 0.0084

Uranus 115659-01-28 11:58 G 43964669.92 43964670.00 43964670.10 0.0139 0.0104

Uranus 115659-04-26 15:48 G 43964758.11 43964758.16 43964758.23 0.0139 0.0123

Saturn 115661-03-28 14:22 G 43965460.00 43965460.10 43965460.20 0.0286 0.0196

Saturn 115661-06-25 03:05 G 43965548.50 43965548.63 43965548.77 0.0286 0.0032

Saturn 115661-09-21 15:48 G 43965637.04 43965637.16 43965637.28 0.0287 0.0134

Mars 115663-03-06 21:34 G 43966168.30 43966168.40 43966168.50 0.1872 0.1004

Jupiter 115663-09-30 13:39 G 43966375.91 43966376.07 43966376.23 0.0496 0.0171

Mars 115664-04-01 11:44 G 43966559.83 43966559.99 43966560.15 0.1680 0.0407

Venus 115664-05-15 17:44 G 43966604.14 43966604.24 43966604.34 0.3704 0.1270

Earth 115664-08-12 12:41 G 43966692.94 43966693.03 43966693.12 0.2665 0.1571

Moon 115664-08-12 13:24 G 43966692.96 43966693.06 43966693.15 0.2671 0.1516 *

Jupiter 115669-06-06 21:05 G 43968452.25 43968452.38 43968452.51 0.0530 0.0124

Venus 115669-11-29 10:32 G 43968627.83 43968627.94 43968628.04 0.3701 0.0486

Mars 115673-08-22 11:58 G 43969989.87 43969990.00 43969990.14 0.1673 0.0884

Venus 115675-06-15 03:05 G 43970651.55 43970651.63 43970651.72 0.3697 0.2175

Saturn 115675-07-19 00:27 G 43970685.40 43970685.52 43970685.65 0.0273 0.0189

Jupiter 115675-07-19 13:24 G 43970685.94 43970686.06 43970686.18 0.0496 0.0346

Saturn 115675-10-15 19:53 G 43970774.15 43970774.33 43970774.51 0.0273 0.0006

Jupiter 115675-10-17 15:34 G 43970776.05 43970776.15 43970776.25 0.0498 0.0401

Saturn 115676-01-12 15:20 G 43970863.01 43970863.14 43970863.28 0.0273 0.0181

Venus 115676-12-28 07:39 G 43971213.73 43971213.82 43971213.91 0.3670 0.2803

Earth 115677-08-15 06:56 G 43971443.68 43971443.79 43971443.91 0.2664 0.0207

Moon 115677-08-15 07:39 G 43971443.71 43971443.82 43971443.93 0.2661 0.0319 *

Earth 115680-02-16 17:44 G 43972359.11 43972359.24 43972359.37 0.2668 0.1382

Moon 115680-02-16 19:10 G 43972359.17 43972359.30 43972359.44 0.2667 0.1221 *

Jupiter 115681-03-25 23:29 G 43972762.35 43972762.48 43972762.62 0.0531 0.0064

Venus 115682-07-14 11:44 G 43973237.85 43973237.99 43973238.13 0.3675 0.0971

Mars 115683-11-23 04:17 G 43973734.60 43973734.68 43973734.77 0.1855 0.1244

Jupiter 115687-08-05 14:08 G 43975085.94 43975086.09 43975086.25 0.0498 0.0209

Saturn 115690-08-15 17:15 G 43976192.15 43976192.22 43976192.31 0.0286 0.0230

Moon 115690-08-18 01:10 G 43976194.47 43976194.55 43976194.63 0.2655 0.1894

Earth 115690-08-18 01:10 G 43976194.47 43976194.55 43976194.63 0.2662 0.1903 *

Saturn 115690-11-12 06:12 G 43976280.63 43976280.76 43976280.90 0.0286 0.0064

Saturn 115691-02-08 19:10 G 43976369.17 43976369.30 43976369.43 0.0287 0.0102

Saturn 115691-05-08 07:39 G 43976457.77 43976457.82 43976457.87 0.0287 0.0265

Jupiter 115693-01-12 02:36 G 43977072.49 43977072.61 43977072.73 0.0532 0.0236

Moon 115693-02-18 22:46 G 43977110.34 43977110.45 43977110.55 0.2663 0.1938

Earth 115693-02-18 22:32 G 43977110.34 43977110.44 43977110.55 0.2670 0.1866 *

Jupiter 115693-04-11 11:58 G 43977161.93 43977162.00 43977162.07 0.0529 0.0444

Mars 115693-04-14 12:56 G 43977164.93 43977165.04 43977165.16 0.1863 0.0207

Uranus 115697-03-21 13:53 G 43978602.00 43978602.08 43978602.18 0.0139 0.0121

Uranus 115697-06-17 20:36 G 43978690.24 43978690.36 43978690.49 0.0139 0.0096

Uranus 115697-09-14 03:05 G 43978778.48 43978778.63 43978778.79 0.0139 0.0071

Uranus 115697-12-11 09:48 G 43978866.74 43978866.91 43978867.08 0.0139 0.0046

Uranus 115698-03-09 16:32 G 43978955.01 43978955.19 43978955.37 0.0139 0.0020

Uranus 115698-06-05 23:15 G 43979043.29 43979043.47 43979043.65 0.0139 0.0005

Uranus 115698-09-02 05:44 G 43979131.57 43979131.74 43979131.92 0.0139 0.0031

Uranus 115698-11-29 12:41 G 43979219.87 43979220.03 43979220.20 0.0139 0.0056

Uranus 115699-02-25 19:24 G 43979308.17 43979308.31 43979308.46 0.0139 0.0082

Jupiter 115699-05-24 12:12 G 43979395.83 43979396.01 43979396.18 0.0497 0.0013

Uranus 115699-05-25 02:08 G 43979396.49 43979396.59 43979396.71 0.0139 0.0108

Uranus 115699-08-21 08:51 G 43979484.84 43979484.87 43979484.93 0.0139 0.0134

Mars 115702-09-05 21:34 G 43980595.30 43980595.40 43980595.50 0.1871 0.0881

Pluto 115702-12-07 10:17 G 43980687.87 43980687.93 43980688.02 0.0085 0.0069

Pluto 115703-03-05 11:44 G 43980775.89 43980775.99 43980776.10 0.0085 0.0051

Pluto 115703-06-01 12:56 G 43980863.92 43980864.04 43980864.17 0.0085 0.0033

Pluto 115703-08-28 14:08 G 43980951.97 43980952.09 43980952.23 0.0085 0.0016

Mars 115703-10-02 12:27 G 43980986.86 43980987.02 43980987.17 0.1680 0.0583

Pluto 115703-11-24 15:34 G 43981040.01 43981040.15 43981040.28 0.0085 0.0003

Pluto 115704-02-20 16:46 G 43981128.07 43981128.20 43981128.32 0.0085 0.0020

Pluto 115704-05-18 17:44 G 43981216.13 43981216.24 43981216.36 0.0084 0.0037

Pluto 115704-08-14 18:56 G 43981304.20 43981304.29 43981304.40 0.0084 0.0055

Jupiter 115704-11-01 05:58 G 43981382.67 43981382.75 43981382.84 0.0533 0.0407

Pluto 115704-11-10 20:22 G 43981392.28 43981392.35 43981392.41 0.0084 0.0072

Saturn 115704-12-06 02:22 G 43981417.51 43981417.60 43981417.71 0.0273 0.0221

Jupiter 115705-01-29 15:48 G 43981472.05 43981472.16 43981472.27 0.0530 0.0285

Saturn 115705-03-04 21:48 G 43981506.24 43981506.41 43981506.59 0.0273 0.0037

Saturn 115705-06-01 17:15 G 43981595.07 43981595.22 43981595.37 0.0273 0.0148

Earth 115710-08-14 17:44 G 43983495.14 43983495.24 43983495.34 0.2665 0.1198

Moon 115710-08-14 18:12 G 43983495.15 43983495.26 43983495.36 0.2661 0.1058 *

Jupiter 115711-03-13 11:15 G 43983705.81 43983705.97 43983706.14 0.0496 0.0177

Mars 115713-02-21 12:56 G 43984416.89 43984417.04 43984417.19 0.1673 0.0696

Venus 115715-06-07 22:32 G 43985253.36 43985253.44 43985253.52 0.3707 0.2470

Jupiter 115716-11-17 19:24 G 43985782.18 43985782.31 43985782.44 0.0531 0.0123

Saturn 115720-04-01 07:24 G 43987012.68 43987012.81 43987012.93 0.0286 0.0121

Saturn 115720-06-28 20:08 G 43987101.21 43987101.34 43987101.48 0.0286 0.0045

Saturn 115720-09-25 08:51 G 43987189.78 43987189.87 43987189.96 0.0287 0.0208

Venus 115720-12-21 15:34 G 43987277.04 43987277.15 43987277.25 0.3703 0.0703

Jupiter 115722-12-30 10:46 G 43988015.83 43988015.95 43988016.07 0.0495 0.0354

Jupiter 115723-03-30 12:56 G 43988105.93 43988106.04 43988106.15 0.0498 0.0391

Mars 115723-05-25 04:17 G 43988161.60 43988161.68 43988161.76 0.1855 0.1362

Moon 115723-08-17 11:29 G 43988245.87 43988245.98 43988246.09 0.2657 0.0435

Earth 115723-08-17 11:58 G 43988245.89 43988246.00 43988246.11 0.2663 0.0556 *

Moon 115726-02-17 23:15 G 43989161.33 43989161.47 43989161.61 0.2663 0.0994

Earth 115726-02-18 00:12 G 43989161.36 43989161.51 43989161.65 0.2668 0.0748 *

Venus 115726-07-07 08:22 G 43989300.74 43989300.85 43989300.95 0.3699 0.1048

Jupiter 115728-09-05 22:46 G 43990092.32 43990092.45 43990092.58 0.0531 0.0047

Neptune 115731-11-28 11:44 G 43991270.96 43991270.99 43991271.06 0.0089 0.0086

Venus 115732-01-21 00:56 G 43991324.47 43991324.54 43991324.61 0.3696 0.2716

Neptune 115732-02-24 14:51 G 43991359.04 43991359.12 43991359.23 0.0089 0.0077

Neptune 115732-05-22 17:58 G 43991447.15 43991447.25 43991447.38 0.0089 0.0068

Neptune 115732-08-18 21:05 G 43991535.26 43991535.38 43991535.53 0.0089 0.0059

Mars 115732-10-14 13:10 G 43991591.94 43991592.05 43991592.17 0.1863 0.0333

Neptune 115732-11-15 00:12 G 43991623.37 43991623.51 43991623.67 0.0089 0.0050

Neptune 115733-02-11 03:20 G 43991711.49 43991711.64 43991711.81 0.0089 0.0040

Neptune 115733-05-10 06:27 G 43991799.61 43991799.77 43991799.95 0.0089 0.0031

Venus 115733-08-05 08:22 G 43991886.72 43991886.85 43991886.98 0.3671 0.1648

Neptune 115733-08-06 09:34 G 43991887.74 43991887.90 43991888.09 0.0089 0.0023

Neptune 115733-11-02 12:56 G 43991975.86 43991976.04 43991976.22 0.0089 0.0013

Neptune 115734-01-29 16:03 G 43992063.99 43992064.17 43992064.36 0.0089 0.0004

Neptune 115734-04-27 19:10 G 43992152.12 43992152.30 43992152.49 0.0089 0.0006

Saturn 115734-07-22 20:22 G 43992238.19 43992238.35 43992238.51 0.0273 0.0101

Neptune 115734-07-24 22:32 G 43992240.26 43992240.44 43992240.62 0.0089 0.0015

Saturn 115734-10-19 15:48 G 43992326.99 43992327.16 43992327.33 0.0273 0.0084

Neptune 115734-10-21 01:39 G 43992328.40 43992328.57 43992328.75 0.0089 0.0024

Jupiter 115735-01-16 12:12 G 43992415.85 43992416.01 43992416.17 0.0498 0.0208

Saturn 115735-01-16 11:15 G 43992415.96 43992415.97 43992416.00 0.0272 0.0270 *

Neptune 115735-01-17 05:00 G 43992416.54 43992416.71 43992416.88 0.0089 0.0034

Neptune 115735-04-15 07:53 G 43992504.68 43992504.83 43992505.00 0.0089 0.0043

Neptune 115735-07-12 11:15 G 43992592.83 43992592.97 43992593.12 0.0089 0.0052

Neptune 115735-10-08 14:08 G 43992680.98 43992681.09 43992681.24 0.0089 0.0063

Neptune 115736-01-04 17:44 G 43992769.14 43992769.24 43992769.36 0.0089 0.0071

Neptune 115736-04-01 20:36 G 43992857.31 43992857.36 43992857.46 0.0089 0.0082

Moon 115736-08-19 05:15 G 43992996.66 43992996.72 43992996.79 0.2664 0.2205

Earth 115736-08-19 05:58 G 43992996.70 43992996.75 43992996.81 0.2661 0.2268 *

Venus 115739-02-19 12:41 G 43993910.92 43993911.03 43993911.15 0.3676 0.2207

Moon 115739-02-21 03:34 G 43993912.58 43993912.65 43993912.71 0.2672 0.2391

Earth 115739-02-21 05:00 G 43993912.66 43993912.71 43993912.75 0.2671 0.2523 *

Uranus 115740-03-27 21:48 G 43994313.37 43994313.41 43994313.48 0.0138 0.0127

Uranus 115740-06-24 01:53 G 43994401.50 43994401.58 43994401.68 0.0138 0.0106

Jupiter 115740-06-25 01:10 G 43994402.43 43994402.55 43994402.68 0.0532 0.0234

Uranus 115740-09-20 05:44 G 43994489.64 43994489.74 43994489.86 0.0138 0.0086

Jupiter 115740-09-22 10:32 G 43994491.88 43994491.94 43994492.01 0.0529 0.0446

Uranus 115740-12-17 09:34 G 43994577.78 43994577.90 43994578.03 0.0139 0.0067

Uranus 115741-03-15 13:39 G 43994665.94 43994666.07 43994666.20 0.0139 0.0047

Uranus 115741-06-11 17:15 G 43994754.09 43994754.22 43994754.36 0.0139 0.0028

Uranus 115741-09-07 21:05 G 43994842.24 43994842.38 43994842.52 0.0139 0.0008

Uranus 115741-12-05 00:56 G 43994930.40 43994930.54 43994930.68 0.0139 0.0012

Uranus 115742-03-03 04:46 G 43995018.56 43995018.70 43995018.83 0.0139 0.0032

Mars 115742-03-06 21:34 G 43995022.29 43995022.40 43995022.51 0.1871 0.0756

Uranus 115742-05-30 08:22 G 43995106.73 43995106.85 43995106.98 0.0139 0.0051

Uranus 115742-08-26 11:58 G 43995194.89 43995195.00 43995195.13 0.0139 0.0071

Uranus 115742-11-22 15:48 G 43995283.06 43995283.16 43995283.27 0.0139 0.0090

Uranus 115743-02-18 19:24 G 43995371.23 43995371.31 43995371.40 0.0139 0.0109

Mars 115743-04-02 12:56 G 43995413.90 43995414.04 43995414.19 0.1680 0.0759

Uranus 115743-05-17 23:00 G 43995459.42 43995459.46 43995459.52 0.0139 0.0129

Earth 115743-08-13 04:17 G 43995546.66 43995546.68 43995546.70 0.2667 0.2604

Moon 115743-08-13 04:17 G 43995546.67 43995546.68 43995546.70 0.2660 0.2623 *

Jupiter 115746-11-04 11:15 G 43996725.79 43996725.97 43996726.14 0.0497 0.0024

Saturn 115749-08-19 10:03 G 43997744.80 43997744.92 43997745.03 0.0286 0.0159

Saturn 115749-11-15 22:46 G 43997833.32 43997833.45 43997833.59 0.0287 0.0012

Saturn 115750-02-12 11:29 G 43997921.88 43997921.98 43997922.09 0.0287 0.0171

Mars 115751-07-28 05:58 G 43998452.74 43998452.75 43998452.76 0.1879 0.1862

Jupiter 115752-04-13 04:03 G 43998712.59 43998712.67 43998712.76 0.0533 0.0412

Jupiter 115752-07-11 13:53 G 43998801.97 43998802.08 43998802.20 0.0530 0.0280

Mars 115752-08-22 13:39 G 43998843.91 43998844.07 43998844.23 0.1673 0.0520

Moon 115756-08-14 21:48 G 44000297.31 44000297.41 44000297.52 0.2662 0.0881

Earth 115756-08-14 22:32 G 44000297.34 44000297.44 44000297.55 0.2665 0.0825 *

Jupiter 115758-08-23 09:20 G 44001035.73 44001035.89 44001036.05 0.0496 0.0178

Mars 115762-11-23 04:17 G 44002588.62 44002588.68 44002588.75 0.1855 0.1496

Saturn 115763-12-09 22:03 G 44002970.28 44002970.42 44002970.58 0.0273 0.0134

Saturn 115764-03-07 17:29 G 44003059.06 44003059.23 44003059.41 0.0273 0.0051

Jupiter 115764-04-29 17:44 G 44003112.11 44003112.24 44003112.37 0.0531 0.0117

Saturn 115764-06-04 12:56 G 44003147.97 44003148.04 44003148.14 0.0273 0.0238

Venus 115766-06-29 03:20 G 44003902.64 44003902.64 44003902.64 0.3709 0.3702

Moon 115769-08-17 16:17 G 44005048.07 44005048.18 44005048.29 0.2668 0.0785

Earth 115769-08-17 16:46 G 44005048.10 44005048.20 44005048.31 0.2663 0.0921 *

Jupiter 115770-06-11 08:51 G 44005345.75 44005345.87 44005345.99 0.0495 0.0356

Jupiter 115770-09-09 10:46 G 44005435.84 44005435.95 44005436.06 0.0498 0.0387

Venus 115772-01-12 20:22 G 44005926.26 44005926.35 44005926.44 0.3706 0.1887

Moon 115772-02-19 05:15 G 44005963.57 44005963.72 44005963.87 0.2673 0.0306

Earth 115772-02-19 06:27 G 44005963.62 44005963.77 44005963.92 0.2669 0.0135 *

Mars 115772-04-14 12:56 G 44006018.93 44006019.04 44006019.16 0.1863 0.0448

Jupiter 115776-02-16 21:20 G 44007422.25 44007422.39 44007422.52 0.0532 0.0051

Venus 115777-07-28 13:24 G 44007949.95 44007950.06 44007950.16 0.3702 0.0204

Saturn 115779-01-06 11:00 G 44008476.87 44008476.96 44008477.05 0.0286 0.0215

Saturn 115779-04-04 23:58 G 44008565.37 44008565.50 44008565.64 0.0286 0.0050

Saturn 115779-07-02 12:41 G 44008653.91 44008654.03 44008654.16 0.0286 0.0115

Saturn 115779-09-29 01:10 G 44008742.52 44008742.55 44008742.59 0.0287 0.0277

Uranus 115781-01-13 14:22 G 44009215.10 44009215.10 44009215.12 0.0140 0.0139

Uranus 115781-04-11 20:51 G 44009303.29 44009303.37 44009303.48 0.0139 0.0115

Uranus 115781-07-09 03:34 G 44009391.52 44009391.65 44009391.79 0.0139 0.0090

Mars 115781-09-04 21:34 G 44009449.29 44009449.40 44009449.51 0.1871 0.0625

Uranus 115781-10-05 10:17 G 44009479.77 44009479.93 44009480.09 0.0139 0.0065

Uranus 115782-01-01 16:46 G 44009568.03 44009568.20 44009568.38 0.0139 0.0040

Uranus 115782-03-30 23:29 G 44009656.30 44009656.48 44009656.66 0.0139 0.0014

Uranus 115782-06-27 06:12 G 44009744.58 44009744.76 44009744.94 0.0139 0.0011

Jupiter 115782-06-28 09:48 G 44009745.75 44009745.91 44009746.07 0.0498 0.0201

Earth 115782-08-20 11:00 G 44009798.94 44009798.96 44009798.97 0.2661 0.2626

Uranus 115782-09-23 12:41 G 44009832.87 44009833.03 44009833.21 0.0139 0.0037

Mars 115782-10-01 13:53 G 44009840.94 44009841.08 44009841.21 0.1680 0.0945

Uranus 115782-12-20 19:39 G 44009921.16 44009921.32 44009921.48 0.0139 0.0062

Venus 115783-02-11 05:58 G 44009973.66 44009973.75 44009973.85 0.3699 0.1593

Uranus 115783-03-19 02:22 G 44010009.47 44010009.60 44010009.74 0.0139 0.0088

Uranus 115783-06-15 09:05 G 44010097.79 44010097.88 44010097.99 0.0139 0.0114

Jupiter 115787-12-06 00:27 G 44011732.40 44011732.52 44011732.65 0.0532 0.0219

Jupiter 115788-03-04 09:48 G 44011821.85 44011821.91 44011821.98 0.0529 0.0461

Venus 115788-08-26 22:32 G 44011997.40 44011997.44 44011997.49 0.3695 0.3254

Moon 115789-08-13 08:22 G 44012348.80 44012348.85 44012348.90 0.2668 0.2364

Earth 115789-08-13 09:05 G 44012348.82 44012348.88 44012348.94 0.2666 0.2228 *

Venus 115790-03-12 09:05 G 44012559.74 44012559.88 44012560.03 0.3673 0.0484

Mars 115791-01-26 05:58 G 44012879.71 44012879.75 44012879.80 0.1879 0.1729

Mars 115792-02-21 14:08 G 44013270.93 44013271.09 44013271.25 0.1673 0.0356

Saturn 115793-04-27 20:08 G 44013702.23 44013702.34 44013702.47 0.0273 0.0201

Saturn 115793-07-25 15:34 G 44013790.97 44013791.15 44013791.33 0.0273 0.0018

Saturn 115793-10-22 11:00 G 44013879.82 44013879.96 44013880.10 0.0273 0.0168

Jupiter 115794-04-16 09:20 G 44014055.72 44014055.89 44014056.06 0.0497 0.0021

Venus 115795-09-26 13:39 G 44014584.03 44014584.07 44014584.12 0.3677 0.3458

Jupiter 115799-09-24 03:05 G 44016042.54 44016042.63 44016042.71 0.0533 0.0405

Jupiter 115799-12-22 12:56 G 44016131.92 44016132.04 44016132.15 0.0530 0.0286

Mars 115801-07-14 15:05 G 44016701.09 44016701.13 44016701.18 0.1667 0.1592

Mars 115802-05-25 04:17 G 44017015.63 44017015.68 44017015.74 0.1854 0.1613

Moon 115802-08-17 03:20 G 44017099.53 44017099.64 44017099.75 0.2671 0.0507

Earth 115802-08-17 03:34 G 44017099.54 44017099.65 44017099.76 0.2664 0.0461 *

Earth 115805-02-17 08:08 G 44018014.83 44018014.84 44018014.85 0.2667 0.2649

Jupiter 115806-02-03 08:36 G 44018365.70 44018365.86 44018366.02 0.0496 0.0161

Saturn 115808-05-26 13:10 G 44019209.00 44019209.05 44019209.11 0.0286 0.0260

Saturn 115808-08-23 02:08 G 44019297.46 44019297.59 44019297.72 0.0286 0.0093

Saturn 115808-11-19 14:51 G 44019385.99 44019386.12 44019386.26 0.0287 0.0073

Saturn 115809-02-16 03:34 G 44019474.58 44019474.65 44019474.73 0.0287 0.0235

Jupiter 115811-10-11 16:03 G 44020442.04 44020442.17 44020442.30 0.0531 0.0116

Mars 115811-10-15 13:10 G 44020445.94 44020446.05 44020446.16 0.1863 0.0576

Neptune 115812-06-30 13:53 G 44020705.05 44020705.08 44020705.13 0.0088 0.0084

Neptune 115812-09-26 15:20 G 44020793.09 44020793.14 44020793.22 0.0088 0.0078

Neptune 115812-12-23 17:00 G 44020881.14 44020881.21 44020881.30 0.0088 0.0070

Neptune 115813-03-21 18:27 G 44020969.19 44020969.27 44020969.38 0.0088 0.0064

Neptune 115813-06-17 20:08 G 44021057.24 44021057.34 44021057.46 0.0088 0.0056

Neptune 115813-09-13 21:48 G 44021145.30 44021145.41 44021145.53 0.0088 0.0049

Neptune 115813-12-10 23:15 G 44021233.35 44021233.47 44021233.60 0.0088 0.0043

Neptune 115814-03-09 00:56 G 44021321.41 44021321.54 44021321.67 0.0088 0.0035

Neptune 115814-06-05 02:22 G 44021409.47 44021409.60 44021409.73 0.0088 0.0029

Neptune 115814-09-01 03:48 G 44021497.53 44021497.66 44021497.80 0.0088 0.0022

Neptune 115814-11-28 05:29 G 44021585.59 44021585.73 44021585.87 0.0088 0.0015

Neptune 115815-02-24 06:56 G 44021673.65 44021673.79 44021673.93 0.0088 0.0008

Neptune 115815-05-23 08:22 G 44021761.71 44021761.85 44021761.99 0.0088 0.0002

Neptune 115815-08-19 09:48 G 44021849.78 44021849.91 44021850.05 0.0088 0.0006

Earth 115815-08-19 21:34 G 44021850.31 44021850.40 44021850.50 0.2663 0.1288

Moon 115815-08-19 22:17 G 44021850.34 44021850.43 44021850.53 0.2667 0.1408 *

Neptune 115815-11-15 11:29 G 44021937.84 44021937.98 44021938.11 0.0088 0.0012

Neptune 115816-02-11 12:41 G 44022025.90 44022026.03 44022026.17 0.0088 0.0019

Neptune 115816-05-09 14:22 G 44022113.97 44022114.10 44022114.23 0.0088 0.0026

Neptune 115816-08-05 15:48 G 44022202.03 44022202.16 44022202.29 0.0088 0.0032

Neptune 115816-11-01 17:00 G 44022290.10 44022290.21 44022290.35 0.0088 0.0040

Neptune 115817-01-28 18:41 G 44022378.16 44022378.28 44022378.40 0.0088 0.0046

Neptune 115817-04-26 20:08 G 44022466.23 44022466.34 44022466.45 0.0088 0.0052

Neptune 115817-07-23 21:20 G 44022554.30 44022554.39 44022554.50 0.0088 0.0059

Neptune 115817-10-19 23:00 G 44022642.37 44022642.46 44022642.55 0.0088 0.0065

Jupiter 115817-11-22 07:10 G 44022675.68 44022675.80 44022675.92 0.0495 0.0354

Neptune 115818-01-16 00:12 G 44022730.45 44022730.51 44022730.60 0.0088 0.0072

Jupiter 115818-02-20 08:51 G 44022765.77 44022765.87 44022765.98 0.0498 0.0388

Earth 115818-02-20 12:41 G 44022765.88 44022766.03 44022766.18 0.2669 0.0528 *

Moon 115818-02-20 14:08 G 44022765.94 44022766.09 44022766.23 0.2672 0.0829 *

Neptune 115818-04-14 01:53 G 44022818.52 44022818.58 44022818.64 0.0088 0.0078

Neptune 115818-07-11 03:05 G 44022906.61 44022906.63 44022906.67 0.0088 0.0085

Mars 115821-03-06 21:34 G 44023876.29 44023876.40 44023876.51 0.1871 0.0503

Mars 115822-04-02 14:36 G 44024267.98 44024268.11 44024268.23 0.1681 0.1123

Saturn 115822-09-15 21:48 G 44024434.34 44024434.41 44024434.51 0.0274 0.0235

Saturn 115822-12-13 17:15 G 44024523.05 44024523.22 44024523.39 0.0273 0.0052

Venus 115823-02-04 01:10 G 44024575.49 44024575.55 44024575.61 0.3708 0.3106

Saturn 115823-03-12 12:41 G 44024611.88 44024612.03 44024612.19 0.0273 0.0134

Jupiter 115823-07-30 19:24 G 44024752.18 44024752.31 44024752.45 0.0532 0.0056

Uranus 115824-04-18 05:15 G 44025014.66 44025014.72 44025014.80 0.0138 0.0121

Uranus 115824-07-15 09:20 G 44025102.79 44025102.89 44025102.99 0.0138 0.0101

Uranus 115824-10-11 13:10 G 44025190.94 44025191.05 44025191.17 0.0139 0.0081

Uranus 115825-01-07 17:00 G 44025279.09 44025279.21 44025279.34 0.0139 0.0061

Uranus 115825-04-05 20:51 G 44025367.24 44025367.37 44025367.50 0.0139 0.0041

Uranus 115825-07-03 00:41 G 44025455.39 44025455.53 44025455.67 0.0139 0.0022

Uranus 115825-09-29 04:32 G 44025543.55 44025543.69 44025543.83 0.0139 0.0003

Uranus 115825-12-26 08:08 G 44025631.71 44025631.84 44025631.98 0.0139 0.0018

Uranus 115826-03-24 11:58 G 44025719.87 44025720.00 44025720.13 0.0139 0.0037

Uranus 115826-06-20 15:48 G 44025808.03 44025808.16 44025808.28 0.0139 0.0056

Uranus 115826-09-16 19:10 G 44025896.20 44025896.30 44025896.43 0.0139 0.0076

Uranus 115826-12-13 23:00 G 44025984.37 44025984.46 44025984.57 0.0139 0.0095

Uranus 115827-03-12 02:36 G 44026072.54 44026072.61 44026072.70 0.0139 0.0114

Uranus 115827-06-08 06:12 G 44026160.74 44026160.76 44026160.81 0.0139 0.0134

Venus 115828-08-19 18:12 G 44026599.16 44026599.26 44026599.36 0.3705 0.1305

Jupiter 115829-12-09 07:53 G 44027075.67 44027075.83 44027075.99 0.0497 0.0201

Mars 115830-07-28 05:58 G 44027306.69 44027306.75 44027306.81 0.1879 0.1611

Mars 115831-08-23 15:05 G 44027697.96 44027698.13 44027698.29 0.1674 0.0170

Venus 115834-03-05 11:00 G 44028622.86 44028622.96 44028623.07 0.3701 0.0454

Jupiter 115835-05-18 23:00 G 44029062.34 44029062.46 44029062.58 0.0533 0.0219

Earth 115835-08-15 14:08 G 44029151.01 44029151.09 44029151.17 0.2666 0.1852

Moon 115835-08-15 14:08 G 44029151.01 44029151.09 44029151.18 0.2673 0.1763 *

Jupiter 115835-08-16 08:36 G 44029151.79 44029151.86 44029151.92 0.0529 0.0463

Saturn 115838-01-10 03:20 G 44030029.52 44030029.64 44030029.76 0.0286 0.0149

Saturn 115838-04-08 16:03 G 44030118.04 44030118.17 44030118.31 0.0286 0.0017

Saturn 115838-07-06 04:46 G 44030206.60 44030206.70 44030206.81 0.0286 0.0179

Venus 115839-09-19 03:48 G 44030646.57 44030646.66 44030646.74 0.3698 0.2142

Mars 115841-01-12 15:48 G 44031128.08 44031128.16 44031128.25 0.1667 0.1420

Venus 115841-04-03 05:58 G 44031208.68 44031208.75 44031208.83 0.3669 0.3015

Jupiter 115841-09-27 07:10 G 44031385.63 44031385.80 44031385.97 0.0497 0.0018

Mars 115841-11-23 04:17 G 44031442.65 44031442.68 44031442.72 0.1854 0.1742

Venus 115846-10-18 10:03 G 44033232.78 44033232.92 44033233.06 0.3674 0.0719

Jupiter 115847-03-07 02:22 G 44033372.51 44033372.60 44033372.69 0.0533 0.0390

Jupiter 115847-06-04 12:12 G 44033461.90 44033462.01 44033462.12 0.0530 0.0301

Earth 115848-08-17 08:22 G 44033901.74 44033901.85 44033901.96 0.2664 0.0090

Moon 115848-08-17 09:05 G 44033901.77 44033901.88 44033901.99 0.2663 0.0040 *

Earth 115851-02-18 14:22 G 44034817.00 44034817.10 44034817.19 0.2667 0.2038

Moon 115851-02-18 15:48 G 44034817.06 44034817.16 44034817.26 0.2666 0.1908 *

Mars 115851-04-15 13:10 G 44034872.94 44034873.05 44034873.16 0.1862 0.0705

Saturn 115852-05-01 14:51 G 44035254.97 44035255.12 44035255.28 0.0273 0.0124

Pluto 115852-05-19 08:08 G 44035272.78 44035272.84 44035272.93 0.0059 0.0055

Saturn 115852-07-29 10:17 G 44035343.76 44035343.93 44035344.10 0.0273 0.0060

Pluto 115852-08-15 09:20 G 44035360.78 44035360.89 44035361.03 0.0059 0.0046

Saturn 115852-10-26 05:44 G 44035432.67 44035432.74 44035432.82 0.0273 0.0247

Pluto 115852-11-11 10:46 G 44035448.81 44035448.95 44035449.12 0.0059 0.0037

Pluto 115853-02-07 12:12 G 44035536.85 44035537.01 44035537.20 0.0059 0.0028

Pluto 115853-05-06 13:39 G 44035624.89 44035625.07 44035625.27 0.0060 0.0019

Jupiter 115853-07-16 06:56 G 44035695.62 44035695.79 44035695.95 0.0496 0.0158

Pluto 115853-08-02 15:05 G 44035712.94 44035713.13 44035713.33 0.0060 0.0010

Pluto 115853-10-29 16:46 G 44035801.00 44035801.20 44035801.40 0.0060 0.0001

Pluto 115854-01-25 17:58 G 44035889.06 44035889.25 44035889.45 0.0060 0.0009

Pluto 115854-04-23 19:24 G 44035977.12 44035977.31 44035977.50 0.0060 0.0018

Pluto 115854-07-20 20:22 G 44036065.20 44036065.35 44036065.55 0.0060 0.0028

Pluto 115854-10-16 21:48 G 44036153.28 44036153.41 44036153.59 0.0060 0.0037

Pluto 115855-01-12 23:15 G 44036241.37 44036241.47 44036241.62 0.0060 0.0046

Pluto 115855-04-11 00:56 G 44036329.48 44036329.54 44036329.62 0.0060 0.0055

Jupiter 115859-03-23 15:05 G 44037772.00 44037772.13 44037772.26 0.0531 0.0125

Mars 115860-09-04 21:34 G 44038303.29 44038303.40 44038303.52 0.1871 0.0378

Earth 115861-08-20 02:36 G 44038652.52 44038652.61 44038652.70 0.2662 0.1643

Moon 115861-08-20 02:51 G 44038652.53 44038652.62 44038652.70 0.2656 0.1735 *

Mars 115861-10-01 15:05 G 44038695.03 44038695.13 44038695.24 0.1681 0.1299

Earth 115864-02-21 18:56 G 44039568.15 44039568.29 44039568.42 0.2670 0.1166

Moon 115864-02-21 19:39 G 44039568.18 44039568.32 44039568.45 0.2664 0.1341 *

Uranus 115865-02-03 21:20 G 44039916.36 44039916.39 44039916.46 0.0139 0.0134

Uranus 115865-05-03 04:03 G 44040004.57 44040004.67 44040004.79 0.0139 0.0109

Jupiter 115865-05-04 06:12 G 44040005.64 44040005.76 44040005.89 0.0495 0.0337

Uranus 115865-07-30 10:46 G 44040092.81 44040092.95 44040093.09 0.0139 0.0084

Jupiter 115865-08-02 08:22 G 44040095.75 44040095.85 44040095.95 0.0498 0.0408

Uranus 115865-10-26 17:15 G 44040181.06 44040181.22 44040181.38 0.0139 0.0059

Uranus 115866-01-22 23:58 G 44040269.32 44040269.50 44040269.67 0.0139 0.0034

Uranus 115866-04-21 06:27 G 44040357.59 44040357.77 44040357.95 0.0139 0.0009

Uranus 115866-07-18 13:10 G 44040445.87 44040446.05 44040446.23 0.0139 0.0017

Uranus 115866-10-14 19:53 G 44040534.16 44040534.33 44040534.50 0.0139 0.0042

Uranus 115867-01-11 02:36 G 44040622.45 44040622.61 44040622.77 0.0139 0.0068

Uranus 115867-04-09 09:05 G 44040710.76 44040710.88 44040711.03 0.0139 0.0094

Saturn 115867-05-30 05:00 G 44040761.61 44040761.71 44040761.81 0.0286 0.0198

Uranus 115867-07-06 16:17 G 44040799.09 44040799.18 44040799.27 0.0139 0.0119

Saturn 115867-08-26 17:58 G 44040850.11 44040850.25 44040850.39 0.0286 0.0032

Saturn 115867-11-23 06:41 G 44040938.66 44040938.78 44040938.90 0.0287 0.0132

Mars 115870-01-26 05:58 G 44041733.68 44041733.75 44041733.83 0.1879 0.1475

Jupiter 115871-01-09 18:12 G 44042082.13 44042082.26 44042082.39 0.0532 0.0048

Mars 115871-02-21 15:48 G 44042124.99 44042125.16 44042125.32 0.1674 0.0018

Jupiter 115877-05-21 06:27 G 44044405.61 44044405.77 44044405.93 0.0497 0.0206

Venus 115879-09-10 23:00 G 44045248.38 44045248.46 44045248.54 0.3708 0.2514

Mars 115880-07-13 16:32 G 44045555.08 44045555.19 44045555.30 0.1667 0.1251

Earth 115881-08-15 18:56 G 44045953.20 44045953.29 44045953.38 0.2666 0.1479

Moon 115881-08-15 19:39 G 44045953.22 44045953.32 44045953.41 0.2662 0.1330 *

Saturn 115881-09-18 16:17 G 44045987.04 44045987.18 44045987.33 0.0274 0.0160

Saturn 115881-12-16 11:44 G 44046075.81 44046075.99 44046076.16 0.0273 0.0025

Saturn 115882-03-15 07:10 G 44046164.69 44046164.80 44046164.92 0.0273 0.0211

Jupiter 115882-10-28 21:20 G 44046392.27 44046392.39 44046392.51 0.0533 0.0222

Jupiter 115883-01-26 06:56 G 44046481.73 44046481.79 44046481.85 0.0530 0.0461

Venus 115885-03-26 16:03 G 44047272.07 44047272.17 44047272.28 0.3704 0.0727

Jupiter 115889-03-09 05:44 G 44048715.56 44048715.74 44048715.91 0.0496 0.0026

Venus 115890-10-10 08:51 G 44049295.77 44049295.87 44049295.97 0.3700 0.1003

Mars 115890-10-14 13:10 G 44049299.94 44049300.05 44049300.15 0.1862 0.0822

Jupiter 115894-08-17 00:56 G 44050702.45 44050702.54 44050702.63 0.0534 0.0390

Moon 115894-08-18 13:10 G 44050703.94 44050704.05 44050704.16 0.2657 0.0230

Earth 115894-08-18 13:10 G 44050703.94 44050704.05 44050704.17 0.2664 0.0294 *

Jupiter 115894-11-14 10:46 G 44050791.84 44050791.95 44050792.06 0.0530 0.0303

Venus 115896-04-25 01:24 G 44051319.49 44051319.56 44051319.64 0.3697 0.2682

Neptune 115896-05-29 07:53 G 44051353.83 44051353.83 44051353.84 0.0089 0.0089

Neptune 115896-08-25 10:46 G 44051441.89 44051441.95 44051442.04 0.0089 0.0081

Saturn 115896-10-16 06:12 G 44051493.70 44051493.76 44051493.83 0.0285 0.0251

Neptune 115896-11-21 13:53 G 44051529.99 44051530.08 44051530.20 0.0089 0.0072

Saturn 115897-01-12 19:10 G 44051582.17 44051582.30 44051582.44 0.0285 0.0086

Neptune 115897-02-17 17:00 G 44051618.09 44051618.21 44051618.35 0.0089 0.0063

Moon 115897-02-18 20:08 G 44051619.22 44051619.34 44051619.47 0.2661 0.1447

Earth 115897-02-18 20:36 G 44051619.23 44051619.36 44051619.48 0.2668 0.1413 *

Saturn 115897-04-11 08:08 G 44051670.70 44051670.84 44051670.97 0.0286 0.0078

Neptune 115897-05-16 20:08 G 44051706.20 44051706.34 44051706.49 0.0089 0.0054

Saturn 115897-07-08 20:36 G 44051759.29 44051759.36 44051759.43 0.0286 0.0240

Neptune 115897-08-12 23:15 G 44051794.32 44051794.47 44051794.63 0.0089 0.0044

Venus 115897-11-08 06:41 G 44051881.66 44051881.78 44051881.90 0.3670 0.1894

Neptune 115897-11-09 02:22 G 44051882.44 44051882.60 44051882.77 0.0089 0.0035

Neptune 115898-02-05 05:29 G 44051970.56 44051970.73 44051970.91 0.0089 0.0026

Neptune 115898-05-04 08:36 G 44052058.69 44052058.86 44052059.04 0.0089 0.0017

Neptune 115898-07-31 11:44 G 44052146.81 44052146.99 44052147.18 0.0089 0.0008

Neptune 115898-10-27 15:05 G 44052234.95 44052235.13 44052235.31 0.0089 0.0002

Neptune 115899-01-23 18:12 G 44052323.08 44052323.26 44052323.44 0.0089 0.0010

Neptune 115899-04-21 21:05 G 44052411.21 44052411.38 44052411.57 0.0089 0.0021

Neptune 115899-07-19 00:27 G 44052499.35 44052499.52 44052499.70 0.0089 0.0029

Neptune 115899-10-15 03:34 G 44052587.49 44052587.65 44052587.82 0.0089 0.0039

Neptune 115900-01-11 06:41 G 44052675.64 44052675.78 44052675.95 0.0089 0.0048

Mars 115900-03-06 21:48 G 44052730.29 44052730.41 44052730.52 0.1871 0.0246

Neptune 115900-04-09 09:48 G 44052763.79 44052763.91 44052764.07 0.0089 0.0058

Neptune 115900-07-06 13:24 G 44052851.94 44052852.06 44052852.19 0.0089 0.0067

Neptune 115900-10-02 16:17 G 44052940.10 44052940.18 44052940.29 0.0089 0.0076

Jupiter 115900-12-27 05:00 G 44053025.55 44053025.71 44053025.87 0.0496 0.0159

Neptune 115900-12-29 19:39 G 44053028.29 44053028.32 44053028.39 0.0089 0.0086

Mars 115901-04-02 16:03 G 44053122.09 44053122.17 44053122.24 0.1681 0.1490

Venus 115903-05-26 11:00 G 44053905.84 44053905.96 44053906.08 0.3675 0.1926

Jupiter 115906-09-03 14:22 G 44055101.97 44055102.10 44055102.23 0.0531 0.0141

Moon 115907-08-22 06:41 G 44055454.70 44055454.78 44055454.86 0.2661 0.1921

Earth 115907-08-22 07:24 G 44055454.74 44055454.81 44055454.88 0.2662 0.2011 *

Uranus 115908-02-11 08:36 G 44055627.84 44055627.86 44055627.89 0.0138 0.0136

Uranus 115908-05-09 12:41 G 44055715.95 44055716.03 44055716.10 0.0138 0.0116

Uranus 115908-08-05 16:32 G 44055804.09 44055804.19 44055804.29 0.0139 0.0096

Uranus 115908-11-01 20:08 G 44055892.23 44055892.34 44055892.47 0.0139 0.0077

Uranus 115909-01-29 00:12 G 44055980.38 44055980.51 44055980.64 0.0139 0.0056

Uranus 115909-04-27 04:03 G 44056068.54 44056068.67 44056068.81 0.0139 0.0037

Uranus 115909-07-24 07:53 G 44056156.69 44056156.83 44056156.97 0.0139 0.0017

Mars 115909-07-28 06:12 G 44056160.68 44056160.76 44056160.84 0.1878 0.1349

Uranus 115909-10-20 11:44 G 44056244.85 44056244.99 44056245.13 0.0139 0.0004

Uranus 115910-01-16 15:20 G 44056333.01 44056333.14 44056333.28 0.0139 0.0022

Moon 115910-02-22 23:44 G 44056370.37 44056370.49 44056370.61 0.2670 0.1559

Earth 115910-02-23 01:10 G 44056370.44 44056370.55 44056370.66 0.2670 0.1812 *

Uranus 115910-04-14 19:10 G 44056421.17 44056421.30 44056421.43 0.0139 0.0042

Uranus 115910-07-11 22:46 G 44056509.33 44056509.45 44056509.58 0.0139 0.0061

Mars 115910-08-23 16:17 G 44056552.01 44056552.18 44056552.34 0.1674 0.0174

Uranus 115910-10-08 02:36 G 44056597.50 44056597.61 44056597.72 0.0139 0.0080

Uranus 115911-01-04 06:12 G 44056685.67 44056685.76 44056685.86 0.0139 0.0100

Saturn 115911-02-06 13:39 G 44056718.99 44056719.07 44056719.16 0.0274 0.0234

Uranus 115911-04-02 10:03 G 44056773.85 44056773.92 44056773.99 0.0139 0.0119

Saturn 115911-05-06 08:51 G 44056807.70 44056807.87 44056808.05 0.0273 0.0052

Uranus 115911-06-29 13:39 G 44056862.05 44056862.07 44056862.09 0.0139 0.0138

Saturn 115911-08-03 04:17 G 44056896.53 44056896.68 44056896.84 0.0273 0.0134

Jupiter 115912-10-15 04:46 G 44057335.58 44057335.70 44057335.83 0.0495 0.0331

Jupiter 115913-01-13 06:41 G 44057425.69 44057425.78 44057425.88 0.0498 0.0413

Jupiter 115918-06-22 17:15 G 44059412.09 44059412.22 44059412.36 0.0532 0.0037

Mars 115920-01-13 17:15 G 44059982.09 44059982.22 44059982.34 0.1667 0.1075

Jupiter 115924-11-01 05:44 G 44061735.59 44061735.74 44061735.90 0.0497 0.0227

Saturn 115926-06-02 20:36 G 44062314.24 44062314.36 44062314.48 0.0286 0.0139

Saturn 115926-08-30 09:34 G 44062402.76 44062402.90 44062403.03 0.0286 0.0026

Saturn 115926-11-26 22:03 G 44062491.32 44062491.42 44062491.53 0.0287 0.0189

Moon 115927-08-17 23:15 G 44062755.37 44062755.47 44062755.58 0.2660 0.1223

Earth 115927-08-17 23:58 G 44062755.39 44062755.50 44062755.60 0.2665 0.1108 *

Jupiter 115930-04-10 20:22 G 44063722.23 44063722.35 44063722.47 0.0533 0.0212

Mars 115930-04-15 13:10 G 44063726.95 44063727.05 44063727.15 0.1862 0.0950

Jupiter 115930-07-09 05:44 G 44063811.68 44063811.74 44063811.80 0.0529 0.0469

Venus 115936-04-17 20:51 G 44065921.28 44065921.37 44065921.46 0.3707 0.1932

Jupiter 115936-08-20 04:17 G 44066045.51 44066045.68 44066045.85 0.0496 0.0030

Mars 115939-09-05 21:34 G 44067157.29 44067157.40 44067157.52 0.1870 0.0134

Saturn 115940-06-25 14:51 G 44067451.11 44067451.12 44067451.15 0.0274 0.0272

Moon 115940-08-19 17:29 G 44067506.12 44067506.23 44067506.34 0.2667 0.0569

Earth 115940-08-19 18:12 G 44067506.15 44067506.26 44067506.37 0.2663 0.0654 *

Saturn 115940-09-22 10:03 G 44067539.76 44067539.92 44067540.09 0.0274 0.0090

Mars 115940-10-01 16:32 G 44067549.18 44067549.19 44067549.21 0.1681 0.1665

Saturn 115940-12-20 05:29 G 44067628.57 44067628.73 44067628.90 0.0274 0.0096

Venus 115941-11-01 13:53 G 44067944.97 44067945.08 44067945.19 0.3703 0.0168

Jupiter 115942-01-27 23:15 G 44068032.38 44068032.47 44068032.56 0.0534 0.0392

Jupiter 115942-04-27 09:20 G 44068121.78 44068121.89 44068122.00 0.0531 0.0303

Moon 115943-02-21 01:39 G 44068421.43 44068421.57 44068421.71 0.2671 0.0888

Earth 115943-02-21 02:51 G 44068421.48 44068421.62 44068421.76 0.2668 0.0785 *

Venus 115947-05-18 06:41 G 44069968.68 44069968.78 44069968.87 0.3699 0.1554

Jupiter 115948-06-08 03:34 G 44070355.49 44070355.65 44070355.82 0.0495 0.0151

Pluto 115948-08-08 00:41 G 44070416.51 44070416.53 44070416.56 0.0085 0.0083

Pluto 115948-11-04 01:53 G 44070504.51 44070504.58 44070504.67 0.0085 0.0065

Mars 115949-01-26 05:58 G 44070587.67 44070587.75 44070587.84 0.1878 0.1226

Pluto 115949-01-31 03:20 G 44070592.53 44070592.64 44070592.75 0.0085 0.0047

Uranus 115949-02-25 04:46 G 44070617.64 44070617.70 44070617.78 0.0139 0.0127

Pluto 115949-04-29 04:17 G 44070680.57 44070680.68 44070680.81 0.0085 0.0030

Uranus 115949-05-24 11:15 G 44070705.86 44070705.97 44070706.10 0.0139 0.0102

Pluto 115949-07-26 05:44 G 44070768.61 44070768.74 44070768.87 0.0085 0.0012

Uranus 115949-08-20 17:44 G 44070794.10 44070794.24 44070794.40 0.0139 0.0078

Pluto 115949-10-22 06:56 G 44070856.66 44070856.79 44070856.92 0.0085 0.0006

Uranus 115949-11-17 00:27 G 44070882.36 44070882.52 44070882.69 0.0139 0.0052

Pluto 115950-01-18 08:08 G 44070944.71 44070944.84 44070944.97 0.0085 0.0023

Uranus 115950-02-13 06:56 G 44070970.62 44070970.79 44070970.97 0.0139 0.0028

Mars 115950-02-21 17:00 G 44070979.05 44070979.21 44070979.38 0.1674 0.0367

Pluto 115950-04-16 09:20 G 44071032.78 44071032.89 44071033.01 0.0084 0.0040

Uranus 115950-05-12 13:39 G 44071058.89 44071059.07 44071059.25 0.0139 0.0002

Pluto 115950-07-13 10:32 G 44071120.85 44071120.94 44071121.03 0.0084 0.0058

Uranus 115950-08-08 20:22 G 44071147.17 44071147.35 44071147.53 0.0139 0.0023

Pluto 115950-10-09 11:29 G 44071208.93 44071208.98 44071209.05 0.0084 0.0075

Uranus 115950-11-05 02:51 G 44071235.46 44071235.62 44071235.80 0.0139 0.0049

Uranus 115951-02-01 09:48 G 44071323.76 44071323.91 44071324.06 0.0139 0.0074

Uranus 115951-04-30 16:17 G 44071412.07 44071412.18 44071412.32 0.0139 0.0100

Uranus 115951-07-27 23:00 G 44071500.40 44071500.46 44071500.55 0.0139 0.0126

Venus 115952-11-30 23:15 G 44071992.42 44071992.47 44071992.52 0.3696 0.3217

Moon 115953-08-22 12:27 G 44072256.97 44072257.02 44072257.07 0.2668 0.2359

Earth 115953-08-22 12:27 G 44072256.97 44072257.02 44072257.06 0.2662 0.2371 *

Jupiter 115954-02-13 12:56 G 44072431.91 44072432.04 44072432.17 0.0531 0.0143

Venus 115954-06-16 07:39 G 44072554.68 44072554.82 44072554.96 0.3672 0.0740

Saturn 115955-10-20 22:03 G 44073046.32 44073046.42 44073046.53 0.0285 0.0190

Saturn 115956-01-17 11:00 G 44073134.82 44073134.96 44073135.10 0.0285 0.0025

Moon 115956-02-24 07:24 G 44073172.75 44073172.81 44073172.88 0.2677 0.2359

Earth 115956-02-24 07:24 G 44073172.76 44073172.81 44073172.87 0.2670 0.2454 *

Saturn 115956-04-14 23:44 G 44073223.37 44073223.49 44073223.61 0.0286 0.0137

Mars 115959-07-14 17:44 G 44074409.11 44074409.24 44074409.38 0.1667 0.0905

Venus 115959-12-31 11:58 G 44074578.92 44074579.00 44074579.07 0.3676 0.3140

Jupiter 115960-03-27 03:05 G 44074665.51 44074665.63 44074665.76 0.0495 0.0328

Jupiter 115960-06-25 04:46 G 44074755.61 44074755.70 44074755.80 0.0498 0.0414

Moon 115960-08-15 09:34 G 44074806.87 44074806.90 44074806.93 0.2665 0.2576

Earth 115960-08-15 10:17 G 44074806.90 44074806.93 44074806.97 0.2667 0.2516 *

Jupiter 115965-12-02 16:32 G 44076742.06 44076742.19 44076742.33 0.0532 0.0022

Mars 115969-10-14 13:10 G 44078153.96 44078154.05 44078154.15 0.1862 0.1084

Saturn 115970-02-09 07:10 G 44078271.67 44078271.80 44078271.95 0.0274 0.0166

Saturn 115970-05-09 02:36 G 44078360.44 44078360.61 44078360.79 0.0273 0.0019

Saturn 115970-08-05 22:03 G 44078449.31 44078449.42 44078449.54 0.0273 0.0205

Jupiter 115972-04-13 04:17 G 44079065.53 44079065.68 44079065.84 0.0497 0.0232

Moon 115973-08-18 04:17 G 44079557.58 44079557.68 44079557.79 0.2671 0.0866

Earth 115973-08-18 04:46 G 44079557.59 44079557.70 44079557.81 0.2665 0.0733 *

Neptune 115976-12-30 11:58 G 44080788.00 44080788.00 44080788.03 0.0088 0.0088

Neptune 115977-03-28 13:39 G 44080876.02 44080876.07 44080876.13 0.0088 0.0080

Neptune 115977-06-24 15:05 G 44080964.06 44080964.13 44080964.22 0.0088 0.0074

Neptune 115977-09-20 16:46 G 44081052.11 44081052.20 44081052.30 0.0088 0.0067

Jupiter 115977-09-20 19:24 G 44081052.19 44081052.31 44081052.44 0.0533 0.0200 *

Neptune 115977-12-17 18:27 G 44081140.17 44081140.27 44081140.37 0.0088 0.0060

Jupiter 115977-12-19 05:00 G 44081141.65 44081141.71 44081141.76 0.0529 0.0480

Neptune 115978-03-15 19:53 G 44081228.22 44081228.33 44081228.45 0.0088 0.0053

Neptune 115978-06-11 21:20 G 44081316.28 44081316.39 44081316.52 0.0088 0.0046

Neptune 115978-09-07 22:46 G 44081404.34 44081404.45 44081404.59 0.0088 0.0039

Neptune 115978-12-05 00:27 G 44081492.40 44081492.52 44081492.66 0.0088 0.0032

Neptune 115979-03-03 02:08 G 44081580.45 44081580.59 44081580.72 0.0088 0.0025

Mars 115979-03-06 21:34 G 44081584.29 44081584.40 44081584.52 0.1870 0.0058

Neptune 115979-05-30 03:34 G 44081668.52 44081668.65 44081668.79 0.0088 0.0018

Neptune 115979-08-26 05:00 G 44081756.58 44081756.71 44081756.85 0.0088 0.0012

Neptune 115979-11-22 06:41 G 44081844.64 44081844.78 44081844.92 0.0088 0.0005

Neptune 115980-02-18 08:08 G 44081932.70 44081932.84 44081932.98 0.0088 0.0002

Neptune 115980-05-16 09:34 G 44082020.76 44082020.90 44082021.04 0.0088 0.0009

Neptune 115980-08-12 11:00 G 44082108.83 44082108.96 44082109.10 0.0088 0.0016

Neptune 115980-11-08 12:41 G 44082196.89 44082197.03 44082197.16 0.0088 0.0022

Neptune 115981-02-04 13:53 G 44082284.96 44082285.08 44082285.22 0.0088 0.0029

Neptune 115981-05-03 15:20 G 44082373.02 44082373.14 44082373.28 0.0088 0.0036

Neptune 115981-07-30 17:00 G 44082461.09 44082461.21 44082461.33 0.0088 0.0042

Neptune 115981-10-26 18:12 G 44082549.16 44082549.26 44082549.38 0.0088 0.0049

Neptune 115982-01-22 19:39 G 44082637.23 44082637.32 44082637.44 0.0088 0.0056

Neptune 115982-04-20 21:20 G 44082725.30 44082725.39 44082725.49 0.0088 0.0062

Neptune 115982-07-17 22:32 G 44082813.37   44082813.44   44082813.54 0.0088 0.0069

Neptune 115982-10-14 00:12 G 44082901.44   44082901.51   44082901.58 0.0088 0.0075

Neptune 115983-01-10 01:24 G 44082989.52   44082989.56   44082989.62 0.0088 0.0082

Jupiter 115984-01-31 03:34 G 44083375.48   44083375.65   44083375.82 0.0497 0.0050

Saturn   115985-03-08 23:15 G 44083778.40   44083778.47   44083778.54 0.0285 0.0247

Saturn   115985-06-05 12:12 G 44083866.87   44083867.01   44083867.14 0.0286 0.0081

Saturn   115985-09-02 00:56 G 44083955.41   44083955.54   44083955.67 0.0286 0.0083

Saturn   115985-11-29 13:24 G 44084044.00   44084044.06   44084044.14 0.0286 0.0245

Earth   115986-08-20 23:00 G 44084308.36   44084308.46   44084308.57 0.2663 0.1015

Moon   115986-08-20 23:29 G 44084308.38   44084308.48   44084308.58 0.2669 0.1152 *

Venus   115987-05-10 01:39 G 44084570.52   44084570.57   44084570.62 0.3709 0.3163

Mars   115988-07-27 06:12 G 44085014.66   44085014.76   44085014.85 0.1878 0.1094

Earth   115989-02-21 09:05 G 44085223.73   44085223.88   44085224.03 0.2668 0.0149

Moon   115989-02-21 10:03 G 44085223.77   44085223.92   44085224.07 0.2674 0.0070 *

Jupiter 115989-07-09 22:17 G 44085362.34   44085362.43   44085362.53 0.0533 0.0378

Mars   115989-08-22 17:44 G 44085406.09   44085406.24   44085406.40 0.1675 0.0542

Jupiter 115989-10-07 08:22 G 44085451.74   44085451.85   44085451.95 0.0530 0.0314

Uranus   115992-03-02 15:34 G 44086329.12   44086329.15   44086329.20 0.0138 0.0131

Uranus   115992-05-29 19:24 G 44086417.24   44086417.31   44086417.40 0.0138 0.0112

Uranus   115992-08-25 23:29 G 44086505.38   44086505.48   44086505.59 0.0139 0.0092

Uranus   115992-11-22 03:20 G 44086593.52   44086593.64   44086593.77 0.0139 0.0072

Venus   115992-11-22 18:41 G 44086594.18   44086594.28   44086594.38 0.3706 0.1351

Uranus   115993-02-18 07:10 G 44086681.68   44086681.80   44086681.94 0.0139 0.0052

Uranus   115993-05-17 11:00 G 44086769.83   44086769.96   44086770.10 0.0139 0.0033

Uranus   115993-08-13 14:51 G 44086857.98   44086858.12   44086858.26 0.0139 0.0013

Uranus   115993-11-09 18:41 G 44086946.14   44086946.28   44086946.42 0.0139 0.0007

Uranus   115994-02-05 22:32 G 44087034.30   44087034.44   44087034.58 0.0139 0.0027

Uranus   115994-05-05 02:08 G 44087122.46   44087122.59   44087122.73 0.0139 0.0046

Uranus   115994-08-01 05:58 G 44087210.63   44087210.75   44087210.87 0.0139 0.0065

Uranus   115994-10-28 09:34 G 44087298.80   44087298.90   44087299.02 0.0139 0.0085

Uranus 115995-01-24 13:10 G 44087386.97 44087387.05 44087387.15 0.0139 0.0104

Uranus 115995-04-22 16:46 G 44087475.15 44087475.20 44087475.28 0.0139 0.0124

Jupiter 115995-11-19 02:22 G 44087685.44 44087685.60 44087685.77 0.0495 0.0141

Venus 115998-06-08 11:29 G 44088617.88 44088617.98 44088618.09 0.3702 0.0419

Mars 115999-01-12 18:27 G 44088836.13 44088836.27 44088836.42 0.1668 0.0729

Saturn 115999-06-29 08:22 G 44089003.73 44089003.85 44089003.96 0.0274 0.0207

Saturn 115999-09-26 03:34 G 44089092.47 44089092.65 44089092.82 0.0274 0.0023

Saturn 115999-12-23 23:00 G 44089181.32 44089181.46 44089181.60 0.0274 0.0164

117TH MILLENNIUM CE

This is a list of transits of Mercury in the 117th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Jupiter 116001-07-26 11:29 G 44089761.85 44089761.98 44089762.11 0.0532 0.0142

Venus 116003-12-23 04:17 G 44090641.60 44090641.68 44090641.77 0.3698 0.2096

Venus 116005-07-07 04:32 G 44091203.62 44091203.69 44091203.75 0.3668 0.3250

Moon 116006-08-16 15:20 G 44091609.07 44091609.14 44091609.20 0.2673 0.2129

Earth 116006-08-16 15:20 G 44091609.07 44091609.14 44091609.20 0.2667 0.2133 *

Jupiter 116007-09-07 01:53 G 44091995.45 44091995.58 44091995.72 0.0495 0.0317

Jupiter 116007-12-06 03:34 G 44092085.57 44092085.65 44092085.75 0.0497 0.0423

Mars 116009-04-14 13:10 G 44092580.96 44092581.05 44092581.13 0.1862 0.1195

Venus 116011-01-21 08:22 G 44093227.71 44093227.85 44093227.99 0.3673 0.0444

Jupiter 116013-05-14 15:05 G 44094072.00 44094072.13 44094072.26 0.0532 0.0021

Saturn 116014-10-23 13:53 G 44094598.96 44094599.08 44094599.21 0.0285 0.0128

Saturn 116015-01-20 02:51 G 44094687.48 44094687.62 44094687.75 0.0285 0.0036

Saturn 116015-04-18 15:20 G 44094776.04 44094776.14 44094776.24 0.0285 0.0197

Mars 116018-09-04 21:48 G 44096011.29 44096011.41 44096011.52 0.1870 0.0147

Jupiter 116019-06-26 01:24 G 44096305.56 44096305.56 44096305.57 0.0494 0.0494

Earth 116019-08-19 09:34 G 44096359.79 44096359.90 44096360.02 0.2665 0.0366

Moon 116019-08-19 10:17 G 44096359.82 44096359.93 44096360.05 0.2668 0.0265 *

Jupiter 116019-09-24 02:36 G 44096395.46 44096395.61 44096395.76 0.0497 0.0235

Moon 116022-02-19 12:27 G 44097274.96 44097275.02 44097275.09 0.2668 0.2404

Jupiter 116025-03-02 18:41 G 44098382.15 44098382.28 44098382.40 0.0533 0.0187

Jupiter 116025-05-31 04:03 G 44098471.63 44098471.67 44098471.72 0.0530 0.0494

Mars 116028-01-26 06:12 G 44099441.66 44099441.76 44099441.86 0.1878 0.0961

Saturn 116029-02-12 00:41 G 44099824.37 44099824.53 44099824.69 0.0274 0.0099

Mars 116029-02-20 18:27 G 44099833.12 44099833.27 44099833.42 0.1675 0.0710

Saturn 116029-05-11 20:08 G 44099913.17 44099913.34 44099913.51 0.0274 0.0086

Jupiter 116031-07-13 02:08 G 44100705.42 44100705.59 44100705.76 0.0496 0.0057

Earth 116032-08-21 03:48 G 44101110.57 44101110.66 44101110.76 0.2663 0.1383

Moon 116032-08-21 04:17 G 44101110.59 44101110.68 44101110.78 0.2657 0.1467 *

Uranus 116033-03-17 11:44 G 44101318.91 44101318.99 44101319.08 0.0139 0.0121

Uranus 116033-06-13 18:12 G 44101407.14 44101407.26 44101407.39 0.0139 0.0097

Uranus 116033-09-10 00:41 G 44101495.39 44101495.53 44101495.69 0.0139 0.0072

Uranus 116033-12-07 07:10 G 44101583.64 44101583.80 44101583.98 0.0139 0.0047

Uranus 116034-03-05 13:53 G 44101671.91 44101672.08 44101672.26 0.0139 0.0022

Uranus 116034-06-01 20:36 G 44101760.18 44101760.36 44101760.54 0.0139 0.0004

Uranus 116034-08-29 03:05 G 44101848.46 44101848.63 44101848.81 0.0139 0.0029

Uranus 116034-11-25 09:48 G 44101936.75 44101936.91 44101937.08 0.0139 0.0054

Uranus 116035-02-21 16:17 G 44102025.05 44102025.18 44102025.34 0.0139 0.0080

Earth 116035-02-22 15:20 G 44102025.99 44102026.14 44102026.29 0.2669 0.0491

Moon 116035-02-22 16:17 G 44102026.03 44102026.18 44102026.33 0.2664 0.0575 *

Uranus 116035-05-20 23:15 G 44102113.36 44102113.47 44102113.59 0.0139 0.0105

Uranus 116035-08-17 05:58 G 44102201.70 44102201.75 44102201.82 0.0139 0.0131

Jupiter 116036-12-19 21:20 G 44102692.30   44102692.39   44102692.49 0.0533 0.0367

Jupiter 116037-03-19 07:24 G 44102781.70   44102781.81   44102781.91 0.0530 0.0326

Mars   116038-07-13 19:10 G 44103263.15   44103263.30   44103263.46 0.1668 0.0554

Jupiter 116043-05-01 01:39 G 44105015.41   44105015.57   44105015.74 0.0496 0.0123

Venus   116043-12-14 23:29 G 44105243.40   44105243.48   44105243.56 0.3709 0.2572

Saturn   116044-03-11 14:51 G 44105331.02   44105331.12   44105331.22 0.0285 0.0188

Saturn   116044-06-08 03:48 G 44105419.52   44105419.66   44105419.79 0.0286 0.0024

Saturn   116044-09-04 16:17 G 44105508.07   44105508.18   44105508.31 0.0286 0.0140

Mars   116048-10-13 13:10 G 44107007.97   44107008.05   44107008.13 0.1862 0.1327

Jupiter 116049-01-05 10:46 G 44107091.82   44107091.95   44107092.07 0.0531 0.0157

Venus   116049-06-29 16:32 G 44107267.09   44107267.19   44107267.30 0.3705 0.0782

Earth   116052-08-16 20:08 G 44108411.26   44108411.34   44108411.43 0.2666 0.1759

Moon   116052-08-16 21:05 G 44108411.29   44108411.38   44108411.46 0.2664 0.1678 *

Venus   116055-01-13 09:20 G 44109290.79   44109290.89   44109290.99 0.3701 0.0952

Jupiter 116055-02-17 00:56 G 44109325.41   44109325.54   44109325.67 0.0495 0.0306

Jupiter 116055-05-18 02:36 G 44109415.53   44109415.61   44109415.69 0.0497 0.0434

Mars   116058-03-05 21:48 G 44110438.29   44110438.41   44110438.52 0.1869 0.0268

Saturn   116058-07-02 01:24 G 44110556.41   44110556.56   44110556.71 0.0275 0.0142

Saturn   116058-09-28 20:51 G 44110645.20   44110645.37   44110645.54 0.0274 0.0044

Saturn   116058-12-26 16:17 G 44110734.10   44110734.18   44110734.28 0.0274 0.0232

Venus   116060-07-29 02:08 G 44111314.51   44111314.59   44111314.66 0.3697 0.2637

Jupiter 116060-10-24 13:39 G 44111401.93   44111402.07   44111402.20 0.0533 0.0027

Neptune 116061-02-24 06:41 G 44111524.74   44111524.78   44111524.86 0.0089 0.0084

Neptune 116061-05-23 09:48 G 44111612.83   44111612.91   44111613.02 0.0089 0.0075

Neptune 116061-08-19 12:56 G 44111700.93   44111701.04   44111701.17 0.0089 0.0066

Neptune 116061-11-15 16:03 G 44111789.04   44111789.17   44111789.32 0.0089 0.0057

Venus   116062-02-11 05:15 G 44111876.60   44111876.72   44111876.83 0.3669 0.2121

Neptune 116062-02-11 19:10 G 44111877.16   44111877.30   44111877.46 0.0089 0.0048

Neptune 116062-05-10 22:17 G 44111965.27   44111965.43   44111965.60 0.0089 0.0039

Neptune 116062-08-07 01:24 G 44112053.40   44112053.56   44112053.74 0.0089 0.0030

Neptune 116062-11-03 04:32 G 44112141.52 44112141.69 44112141.87 0.0089 0.0021

Neptune 116063-01-30 07:39 G 44112229.64 44112229.82 44112230.01 0.0089 0.0012

Neptune 116063-04-28 11:00 G 44112317.77 44112317.96 44112318.14 0.0089 0.0003

Neptune 116063-07-25 14:08 G 44112405.90 44112406.09 44112406.27 0.0089 0.0007

Neptune 116063-10-21 17:15 G 44112494.04 44112494.22 44112494.40 0.0089 0.0016

Neptune 116064-01-17 20:08 G 44112582.17 44112582.34 44112582.53 0.0089 0.0025

Neptune 116064-04-14 23:29 G 44112670.31 44112670.48 44112670.65 0.0089 0.0034

Neptune 116064-07-12 02:36 G 44112758.46 44112758.61 44112758.78 0.0089 0.0044

Neptune 116064-10-08 05:29 G 44112846.60 44112846.73 44112846.90 0.0089 0.0054

Neptune 116065-01-04 08:51 G 44112934.75 44112934.87 44112935.02 0.0089 0.0063

Neptune 116065-04-02 12:12 G 44113022.91 44113023.01 44113023.13 0.0089 0.0072

Neptune 116065-06-29 15:20 G 44113111.08 44113111.14 44113111.23 0.0089 0.0081

Moon 116065-08-19 14:36 G 44113162.00 44113162.11 44113162.23 0.2658 0.0074

Earth 116065-08-19 14:36 G 44113162.00 44113162.11 44113162.22 0.2665 0.0021 *

Jupiter 116066-12-06 00:27 G 44113635.49 44113635.52 44113635.56 0.0494 0.0480

Jupiter 116067-03-06 01:39 G 44113725.42 44113725.57 44113725.72 0.0497 0.0247

Mars 116067-07-27 06:12 G 44113868.65 44113868.76 44113868.86 0.1878 0.0842

Venus 116067-08-28 09:20 G 44113900.76 44113900.89 44113901.02 0.3674 0.1645

Moon 116068-02-20 17:15 G 44114077.12 44114077.22 44114077.33 0.2661 0.1932

Earth 116068-02-20 17:15 G 44114077.13 44114077.22 44114077.31 0.2667 0.2051 *

Mars 116068-08-21 19:10 G 44114260.16 44114260.30 44114260.44 0.1675 0.0898

Jupiter 116072-08-12 17:00 G 44115712.09 44115712.21 44115712.34 0.0533 0.0189

Jupiter 116072-11-10 02:36 G 44115801.57 44115801.61 44115801.66 0.0530 0.0494

Saturn 116073-07-29 17:00 G 44116063.13 44116063.21 44116063.29 0.0284 0.0230

Saturn 116073-10-26 05:58 G 44116151.61 44116151.75 44116151.88 0.0285 0.0066

Saturn 116074-01-22 18:41 G 44116240.15 44116240.28 44116240.41 0.0285 0.0096

Saturn 116074-04-21 07:10 G 44116328.74 44116328.80 44116328.86 0.0285 0.0257

Uranus 116076-03-22 22:46 G 44117030.40 44117030.45 44117030.50 0.0138 0.0127

Uranus 116076-06-19 02:22 G 44117118.53 44117118.60 44117118.70 0.0138 0.0108

Uranus 116076-09-15 06:27 G 44117206.67 44117206.77 44117206.89 0.0139 0.0087

Uranus 116076-12-12 10:17 G 44117294.81 44117294.93 44117295.06 0.0139 0.0068

Uranus 116077-03-10 14:08 G 44117382.97 44117383.09 44117383.23 0.0139 0.0048

Uranus 116077-06-06 18:12 G 44117471.12 44117471.26 44117471.40 0.0139 0.0028

Uranus 116077-09-02 22:03 G 44117559.28 44117559.42 44117559.56 0.0139 0.0009

Uranus 116077-11-30 01:53 G 44117647.44 44117647.58 44117647.71 0.0139 0.0012

Mars 116078-01-11 19:53 G 44117690.17 44117690.33 44117690.49 0.1668 0.0385

Uranus 116078-02-26 05:29 G 44117735.60 44117735.73 44117735.87 0.0139 0.0031

Uranus 116078-05-25 09:20 G 44117823.76 44117823.89 44117824.02 0.0139 0.0050

Uranus 116078-08-21 12:56 G 44117911.93 44117912.04 44117912.16 0.0139 0.0070

Moon 116078-08-22 08:08 G 44117912.75 44117912.84 44117912.93 0.2659 0.1586

Earth 116078-08-22 08:51 G 44117912.79 44117912.87 44117912.95 0.2663 0.1752 *

Uranus 116078-11-17 16:32 G 44118000.09 44118000.19 44118000.31 0.0139 0.0089

Jupiter 116078-12-23 00:41 G 44118035.35 44118035.53 44118035.70 0.0496 0.0061

Uranus 116079-02-13 20:22 G 44118088.27 44118088.35 44118088.44 0.0139 0.0108

Uranus 116079-05-12 23:58 G 44118176.45 44118176.50 44118176.56 0.0139 0.0127

Moon 116081-02-22 20:22 G 44118828.20 44118828.35 44118828.49 0.2666 0.0800

Earth 116081-02-22 21:34 G 44118828.27 44118828.40 44118828.54 0.2669 0.1133 *

Jupiter 116084-05-31 20:36 G 44120022.26 44120022.36 44120022.46 0.0534 0.0356

Jupiter 116084-08-29 06:27 G 44120111.67 44120111.77 44120111.87 0.0531 0.0337

Mars 116087-06-03 20:51 G 44121120.34 44121120.37 44121120.40 0.1662 0.1620

Saturn 116087-11-18 22:46 G 44121288.35 44121288.45 44121288.56 0.0274 0.0217

Saturn 116088-02-15 18:12 G 44121377.08 44121377.26 44121377.43 0.0274 0.0033

Mars 116088-04-13 13:10 G 44121434.98 44121435.05 44121435.12 0.1861 0.1455

Saturn 116088-05-14 13:39 G 44121465.92 44121466.07 44121466.22 0.0274 0.0154

Jupiter 116090-10-11 00:12 G 44122345.34 44122345.51 44122345.68 0.0496 0.0117

Jupiter 116096-06-17 09:34 G 44124421.78 44124421.90 44124422.03 0.0531 0.0168

Mars 116097-09-03 21:34 G 44124865.29 44124865.40 44124865.52 0.1869 0.0390

Pluto 116098-04-15 20:51 G 44125089.31 44125089.37 44125089.46 0.0059 0.0055

Pluto 116098-07-12 22:17 G 44125177.31 44125177.43 44125177.56 0.0059 0.0046

Moon 116098-08-18 00:56 G 44125213.44 44125213.54 44125213.63 0.2660 0.1482

Earth 116098-08-18 01:10 G 44125213.45 44125213.55 44125213.64 0.2666 0.1382 *

Pluto 116098-10-08 23:44 G 44125265.34 44125265.49 44125265.65 0.0059 0.0037

Pluto 116099-01-05 00:56 G 44125353.38 44125353.54 44125353.73 0.0059 0.0028

Pluto 116099-04-03 02:22 G 44125441.42 44125441.60 44125441.80 0.0060 0.0019

Pluto 116099-06-30 03:48 G 44125529.47 44125529.66 44125529.87 0.0060 0.0010

Pluto 116099-09-26 05:29 G 44125617.53 44125617.73 44125617.93 0.0060 0.0001

Pluto 116099-12-23 06:41 G 44125705.59 44125705.78 44125705.98 0.0060 0.0009

Pluto 116100-03-21 08:08 G 44125793.65 44125793.84 44125794.03 0.0060 0.0018

Pluto 116100-06-17 09:20 G 44125881.73 44125881.89 44125882.08 0.0060 0.0027

Venus 116100-07-21 21:20 G 44125916.30 44125916.39 44125916.48 0.3707 0.1985

Pluto 116100-09-13 11:00 G 44125969.80 44125969.96 44125970.12 0.0060 0.0036

Pluto 116100-12-10 11:44 G 44126057.89 44126057.99 44126058.15 0.0060 0.0046

Pluto 116101-03-08 13:24 G 44126146.00 44126146.06 44126146.16 0.0060 0.0055

Jupiter 116102-07-30 23:58 G 44126655.36 44126655.50 44126655.64 0.0495 0.0292

Jupiter 116102-10-29 01:39 G 44126745.50 44126745.57 44126745.64 0.0498 0.0450

Saturn 116103-03-16 06:41 G 44126883.66 44126883.78 44126883.90 0.0285 0.0126

Saturn 116103-06-12 19:24 G 44126972.18 44126972.31 44126972.45 0.0285 0.0038

Saturn 116103-09-09 08:08 G 44127060.74 44127060.84 44127060.94 0.0286 0.0199

Venus 116106-02-04 14:22 G 44127939.99 44127940.10 44127940.21 0.3704 0.0211

Mars 116107-01-26 06:12 G 44128295.65 44128295.76 44128295.87 0.1877 0.0705

Mars 116108-02-21 19:53 G 44128687.20 44128687.33 44128687.46 0.1675 0.1078

Jupiter 116108-04-06 12:56 G 44128731.90 44128732.04 44128732.17 0.0532 0.0019

Venus 116111-08-21 07:10 G 44129963.70 44129963.80 44129963.90 0.3700 0.1510

Moon 116111-08-21 18:41 G 44129964.17 44129964.28 44129964.39 0.2665 0.0314

Earth 116111-08-21 19:24 G 44129964.20 44129964.31 44129964.43 0.2664 0.0397 *

Moon 116114-02-21 22:03 G 44130879.30 44130879.42 44130879.53 0.2669 0.1615

Earth 116114-02-21 23:29 G 44130879.35 44130879.48 44130879.60 0.2667 0.1428 *

Jupiter 116114-05-18 23:15 G 44130965.43 44130965.47 44130965.53 0.0494 0.0470

Jupiter 116114-08-17 00:27 G 44131055.37 44131055.52 44131055.67 0.0497 0.0257

Mars 116116-06-17 14:22 G 44131726.08 44131726.10 44131726.12 0.1885 0.1849

Venus 116117-03-05 23:44 G 44131987.44 44131987.49 44131987.55 0.3696 0.3181

Uranus 116117-04-07 18:41 G 44132020.19 44132020.28 44132020.38 0.0139 0.0116

Saturn 116117-04-07 23:29 G 44132020.43 44132020.48 44132020.53 0.0275 0.0261

Uranus 116117-07-05 00:56 G 44132108.42 44132108.54 44132108.68 0.0139 0.0092

Saturn 116117-07-05 18:41 G 44132109.11 44132109.28 44132109.45 0.0275 0.0077

Mars 116117-07-13 20:36 G 44132117.19 44132117.36 44132117.52 0.1668 0.0212

Uranus 116117-10-01 07:39 G 44132196.67 44132196.82 44132196.98 0.0139 0.0066

Saturn 116117-10-02 14:08 G 44132197.93 44132198.09 44132198.26 0.0274 0.0110

Uranus 116117-12-28 14:08 G 44132284.92 44132285.09 44132285.26 0.0139 0.0042

Uranus 116118-03-26 20:36 G 44132373.19 44132373.36 44132373.54 0.0139 0.0017

Uranus 116118-06-23 03:20 G 44132461.46 44132461.64 44132461.82 0.0139 0.0009

Venus 116118-09-19 05:58 G 44132549.61 44132549.75 44132549.89 0.3671 0.0963

Uranus 116118-09-19 10:03 G 44132549.74 44132549.92 44132550.09 0.0139 0.0034 *

Uranus 116118-12-16 16:46 G 44132638.03 44132638.20 44132638.36 0.0139 0.0059

Uranus 116119-03-14 23:15 G 44132726.33 44132726.47 44132726.62 0.0139 0.0085

Uranus 116119-06-11 06:12 G 44132814.65 44132814.76 44132814.87 0.0139 0.0110

Uranus 116119-09-07 12:41 G 44132903.01 44132903.03 44132903.07 0.0139 0.0136

Jupiter 116120-01-24 15:20 G 44133042.02 44133042.14 44133042.27 0.0534 0.0192

Jupiter 116120-04-23 00:56 G 44133131.50 44133131.54 44133131.59 0.0530 0.0493

Venus 116124-04-04 10:17 G 44134573.84 44134573.93 44134574.02 0.3675 0.2862

Moon 116124-08-23 13:39 G 44134715.00 44134715.07 44134715.14 0.2669 0.2046

Earth 116124-08-23 13:39 G 44134715.01 44134715.07 44134715.14 0.2662 0.2114 *

Jupiter 116126-06-04 23:29 G 44135365.31 44135365.48 44135365.65 0.0496 0.0073

Mars 116126-12-03 21:34 G 44135547.32 44135547.40 44135547.48 0.1662 0.1440

Moon 116127-02-25 03:34 G 44135630.54 44135630.65 44135630.76 0.2676 0.1702

Earth 116127-02-25 03:48 G 44135630.55 44135630.66 44135630.78 0.2669 0.1769 *

Mars 116127-10-14 13:10 G 44135861.99 44135862.05 44135862.11 0.1861 0.1573

Jupiter 116131-11-12 18:41 G 44137352.18 44137352.28 44137352.38 0.0534 0.0361

Jupiter 116132-02-10 04:46 G 44137441.60 44137441.70 44137441.80 0.0531 0.0334

Saturn 116132-08-02 09:05 G 44137615.77 44137615.88 44137616.00 0.0284 0.0165

Saturn 116132-10-29 22:03 G 44137704.28 44137704.42 44137704.56 0.0284 0.0005

Saturn 116133-01-26 10:32 G 44137792.83 44137792.94 44137793.06 0.0285 0.0160

Mars 116137-03-05 21:48 G 44139292.30 44139292.41 44139292.52 0.1869 0.0521

Jupiter 116138-03-23 22:32 G 44139675.27 44139675.44 44139675.61 0.0495 0.0113

Neptune 116141-09-27 11:44 G 44140958.96 44140958.99 44140959.04 0.0088 0.0084

Neptune 116141-12-24 13:24 G 44141047.00 44141047.06 44141047.13 0.0088 0.0077

Neptune 116142-03-22 15:05 G 44141135.05 44141135.13 44141135.22 0.0088 0.0070

Neptune 116142-06-18 16:32 G 44141223.10 44141223.19 44141223.29 0.0088 0.0063

Neptune 116142-09-14 18:12 G 44141311.15 44141311.26 44141311.37 0.0088 0.0056

Neptune 116142-12-11 19:24 G 44141399.21 44141399.31 44141399.44 0.0088 0.0049

Neptune 116143-03-09 21:05 G 44141487.26 44141487.38 44141487.51 0.0088 0.0042

Neptune 116143-06-05 22:32 G 44141575.32 44141575.44 44141575.58 0.0088 0.0036

Jupiter 116143-08-31 22:03 G 44141662.41 44141662.42 44141662.43 0.0535 0.0531

Neptune 116143-09-02 00:12 G 44141663.38 44141663.51 44141663.65 0.0088 0.0028

Neptune 116143-11-29 01:53 G 44141751.44 44141751.58 44141751.71 0.0088 0.0021

Jupiter 116143-11-29 08:36 G 44141751.73 44141751.86 44141751.98 0.0532 0.0175

Neptune 116144-02-25 03:20 G 44141839.50 44141839.64 44141839.78 0.0088 0.0014

Neptune 116144-05-23 04:46 G 44141927.57 44141927.70 44141927.84 0.0088 0.0008

Moon 116144-08-19 05:29 G 44142015.63 44142015.73 44142015.83 0.2670 0.1116

Neptune 116144-08-19 06:27 G 44142015.63 44142015.77 44142015.91 0.0088 0.0001 *

Earth 116144-08-19 05:58 G 44142015.65 44142015.75 44142015.86 0.2666 0.1011 *

Neptune 116144-11-15 07:53 G 44142103.69 44142103.83 44142103.97 0.0088 0.0006

Neptune 116145-02-11 09:20 G 44142191.76 44142191.89 44142192.03 0.0088 0.0013

Neptune 116145-05-10 11:00 G 44142279.82 44142279.96 44142280.09 0.0088 0.0020

Neptune 116145-08-06 12:27 G 44142367.89 44142368.02 44142368.15 0.0088 0.0026

Neptune 116145-11-02 13:39 G 44142455.95 44142456.07 44142456.21 0.0088 0.0033

Neptune 116146-01-29 15:20 G 44142544.02 44142544.14 44142544.26 0.0088 0.0040

Neptune 116146-04-27 16:46 G 44142632.09 44142632.20 44142632.32 0.0088 0.0046

Neptune 116146-07-24 17:58 G 44142720.15 44142720.25 44142720.37 0.0088 0.0054

Mars 116146-07-27 06:12 G 44142722.65 44142722.76 44142722.87 0.1877 0.0582

Neptune 116146-10-20 19:39 G 44142808.22 44142808.32 44142808.42 0.0088 0.0059

Saturn 116146-11-22 16:32 G 44142841.05 44142841.19 44142841.34 0.0275 0.0148

Neptune 116147-01-16 21:05 G 44142896.29 44142896.38 44142896.47 0.0088 0.0066

Saturn 116147-02-19 11:58 G 44142929.82 44142930.00 44142930.17 0.0274 0.0038

Neptune 116147-04-14 22:17 G 44142984.37 44142984.43 44142984.52 0.0088 0.0073

Saturn 116147-05-19 07:24 G 44143018.72 44143018.81 44143018.91 0.0274 0.0225

Neptune 116147-07-11 23:58 G 44143072.45 44143072.50 44143072.56 0.0088 0.0079

Mars 116147-08-22 20:22 G 44143114.24 44143114.35 44143114.46 0.1675 0.1241

Neptune 116147-10-08 01:10 G 44143160.54 44143160.55 44143160.59 0.0088 0.0086

Jupiter 116150-01-09 22:17 G 44143985.29 44143985.43 44143985.57 0.0495 0.0287

Jupiter 116150-04-09 23:58 G 44144075.43 44144075.50 44144075.57 0.0498 0.0454

Venus 116151-08-13 02:08 G 44144565.54 44144565.59 44144565.64 0.3710 0.3213

Jupiter 116155-09-17 11:44 G 44146061.86 44146061.99 44146062.12 0.0532 0.0002

Mars 116155-12-17 14:22 G 44146153.05 44146153.10 44146153.15 0.1885 0.1711

Mars 116157-01-11 21:20 G 44146544.22 44146544.39 44146544.55 0.1669 0.0048

Venus 116157-02-25 19:10 G 44146589.20 44146589.30 44146589.40 0.3706 0.1404

Earth 116157-08-22 00:27 G 44146766.41 44146766.52 44146766.63 0.2664 0.0751

Moon 116157-08-22 00:41 G 44146766.42 44146766.53 44146766.64 0.2670 0.0795 *

Earth 116160-02-23 05:44 G 44147681.60 44147681.74 44147681.88 0.2667 0.0802

Moon 116160-02-23 06:12 G 44147681.62 44147681.76 44147681.90 0.2674 0.0807 *

Uranus 116160-04-13 05:44 G 44147731.68 44147731.74 44147731.81 0.0138 0.0122

Uranus 116160-07-10 09:34 G 44147819.81 44147819.90 44147820.00 0.0138 0.0103

Uranus 116160-10-06 13:39 G 44147907.96 44147908.07 44147908.18 0.0139 0.0083

Uranus 116161-01-02 17:29 G 44147996.11 44147996.23 44147996.36 0.0139 0.0063

Uranus 116161-03-31 21:20 G 44148084.26 44148084.39 44148084.53 0.0139 0.0043

Uranus 116161-06-28 01:10 G 44148172.41 44148172.55 44148172.69 0.0139 0.0023

Uranus 116161-09-24 05:00 G 44148260.57 44148260.71 44148260.85 0.0139 0.0004

Jupiter 116161-10-28 22:03 G 44148295.37 44148295.42 44148295.49 0.0494 0.0460

Saturn 116161-12-20 10:03 G 44148347.83 44148347.92 44148348.00 0.0285 0.0225

Uranus 116161-12-21 08:51 G 44148348.73 44148348.87 44148349.01 0.0139 0.0016

Jupiter 116162-01-26 23:15 G 44148385.33 44148385.47 44148385.62 0.0497 0.0269

Saturn 116162-03-18 22:46 G 44148436.32 44148436.45 44148436.59 0.0285 0.0061

Uranus 116162-03-19 12:41 G 44148436.89 44148437.03 44148437.16 0.0139 0.0035

Saturn 116162-06-15 11:29 G 44148524.86 44148524.98 44148525.11 0.0285 0.0102

Uranus 116162-06-15 16:17 G 44148525.06 44148525.18 44148525.31 0.0139 0.0055 *

Venus 116162-09-11 12:12 G 44148612.90 44148613.01 44148613.11 0.3703 0.0362

Uranus 116162-09-11 19:53 G 44148613.22 44148613.33 44148613.46 0.0139 0.0074

Saturn 116162-09-11 23:58 G 44148613.46 44148613.50 44148613.56 0.0286 0.0263 *

Uranus 116162-12-08 23:44 G 44148701.39 44148701.49 44148701.60 0.0139 0.0093

Uranus 116163-03-07 03:34 G 44148789.57 44148789.65 44148789.73 0.0139 0.0112

Uranus 116163-06-03 07:10 G 44148877.76 44148877.80 44148877.85 0.0139 0.0132

Mars 116166-06-03 22:17 G 44149974.32 44149974.43 44149974.53 0.1662 0.1270

Mars 116167-04-14 13:10 G 44150289.00 44150289.05 44150289.09 0.1861 0.1701

Jupiter 116167-07-06 14:36 G 44150371.99 44150372.11 44150372.24 0.0533 0.0175

Jupiter 116167-10-04 00:12 G 44150461.48 44150461.51 44150461.55 0.0530 0.0507

Venus 116168-03-27 05:00 G 44150636.62 44150636.71 44150636.80 0.3699 0.2061

Venus 116169-10-10 03:05 G 44151198.58 44151198.63 44151198.67 0.3667 0.3451

Earth 116170-08-24 18:41 G 44151517.24 44151517.28 44151517.31 0.2662 0.2474

Moon 116170-08-24 19:24 G 44151517.29 44151517.31 44151517.32 0.2663 0.2619 *

Earth 116173-02-25 10:17 G 44152432.87 44152432.93 44152432.99 0.2670 0.2411

Jupiter 116173-11-14 22:17 G 44152695.26 44152695.43 44152695.60 0.0496 0.0082

Venus 116175-04-26 06:41 G 44153222.64 44153222.78 44153222.93 0.3672 0.0217

Saturn 116176-04-10 16:46 G 44153573.09 44153573.20 44153573.33 0.0275 0.0194

Saturn 116176-07-08 12:12 G 44153661.84 44153662.01 44153662.19 0.0275 0.0010

Mars 116176-09-03 21:34 G 44153719.30 44153719.40 44153719.51 0.1869 0.0639

Saturn 116176-10-05 07:39 G 44153750.70 44153750.82 44153750.96 0.0274 0.0179

Earth 116177-08-17 16:32 G 44154067.14 44154067.19 44154067.23 0.2667 0.2421

Moon 116177-08-17 16:17 G 44154067.15 44154067.18 44154067.21 0.2674 0.2524 *

Jupiter 116179-04-24 17:00 G 44154682.11 44154682.21 44154682.31 0.0534 0.0365

Jupiter 116179-07-23 03:05 G 44154771.53 44154771.63 44154771.74 0.0531 0.0331

Jupiter 116185-09-02 21:34 G 44157005.23 44157005.40 44157005.57 0.0495 0.0100

Mars 116186-01-25 06:12 G 44157149.65 44157149.76 44157149.87 0.1877 0.0454

Mars 116187-02-20 21:20 G 44157541.30 44157541.39 44157541.47 0.1676 0.1436

Earth 116190-08-20 11:00 G 44158817.85 44158817.96 44158818.07 0.2665 0.0637

Moon 116190-08-20 11:29 G 44158817.87 44158817.98 44158818.09 0.2670 0.0481 *

Saturn 116191-05-09 12:56 G 44159079.98 44159080.04 44159080.10 0.0284 0.0258

Jupiter 116191-05-11 06:41 G 44159081.66 44159081.78 44159081.91 0.0532 0.0168

Saturn 116191-08-06 01:53 G 44159168.45 44159168.58 44159168.71 0.0284 0.0094

Saturn 116191-11-02 14:36 G 44159256.98 44159257.11 44159257.24 0.0284 0.0068

Saturn 116192-01-30 03:05 G 44159345.55 44159345.63 44159345.71 0.0285 0.0228

Pluto 116194-10-01 16:17 G 44160321.12 44160321.18 44160321.27 0.0085 0.0070

Pluto 116194-12-28 17:44 G 44160409.14 44160409.24 44160409.35 0.0085 0.0052

Pluto 116195-03-26 18:56 G 44160497.18 44160497.29 44160497.42 0.0085 0.0035

Mars 116195-06-17 14:22 G 44160580.04 44160580.10 44160580.17 0.1885 0.1577

Pluto 116195-06-22 20:08 G 44160585.22 44160585.34 44160585.48 0.0085 0.0017

Pluto 116195-09-18 21:34 G 44160673.26 44160673.40 44160673.53 0.0085 0.0002

Pluto 116195-12-15 22:32 G 44160761.32 44160761.44 44160761.58 0.0085 0.0019

Pluto 116196-03-12 23:44 G 44160849.38 44160849.49 44160849.62 0.0084 0.0036

Pluto 116196-06-09 00:56 G 44160937.45 44160937.54 44160937.65 0.0084 0.0053

Mars 116196-07-12 21:48 G 44160971.24 44160971.41 44160971.57 0.1669 0.0140

Pluto 116196-09-05 02:08 G 44161025.53 44161025.59 44161025.67 0.0084 0.0070

Jupiter 116197-06-21 20:36 G 44161315.22 44161315.36 44161315.50 0.0494 0.0285

Jupiter 116197-09-19 22:17 G 44161405.36 44161405.43 44161405.50 0.0497 0.0455

Uranus 116201-01-30 18:41 G 44162633.26 44162633.28 44162633.33 0.0139 0.0136

Uranus 116201-04-29 01:10 G 44162721.46 44162721.55 44162721.66 0.0139 0.0111

Uranus 116201-07-26 07:39 G 44162809.69 44162809.82 44162809.97 0.0139 0.0087

Uranus 116201-10-22 14:22 G 44162897.94 44162898.10 44162898.26 0.0139 0.0062

Uranus 116202-01-18 20:36 G 44162986.20 44162986.36 44162986.54 0.0139 0.0038

Uranus 116202-04-17 03:20 G 44163074.47 44163074.64 44163074.82 0.0139 0.0012

Uranus 116202-07-14 10:03 G 44163162.74 44163162.92 44163163.10 0.0139 0.0013

Uranus 116202-10-10 16:32 G 44163251.02 44163251.19 44163251.37 0.0139 0.0039

Uranus 116203-01-06 23:15 G 44163339.31 44163339.47 44163339.63 0.0139 0.0064

Jupiter 116203-02-28 10:17 G 44163391.80 44163391.93 44163392.07 0.0533 0.0018

Uranus 116203-04-05 05:58 G 44163427.61 44163427.75 44163427.89 0.0139 0.0089

Uranus 116203-07-02 12:27 G 44163515.93 44163516.02 44163516.13 0.0139 0.0115

Earth 116203-08-24 05:15 G 44163568.62 44163568.72 44163568.82 0.2664 0.1116

Moon 116203-08-24 05:58 G 44163568.65 44163568.75 44163568.85 0.2660 0.1160 *

Saturn 116205-08-29 15:20 G 44164305.09 44164305.14 44164305.20 0.0275 0.0259

Saturn 116205-11-26 10:32 G 44164393.77 44164393.94 44164394.11 0.0275 0.0075

Mars 116205-12-03 22:46 G 44164401.33 44164401.45 44164401.57 0.1662 0.1110

Saturn 116206-02-23 05:58 G 44164482.59 44164482.75 44164482.91 0.0274 0.0111

Earth 116206-02-24 11:58 G 44164483.85 44164484.00 44164484.14 0.2668 0.0197

Moon 116206-02-24 13:10 G 44164483.90 44164484.05 44164484.20 0.2663 0.0111 *

Mars 116206-10-14 13:10 G 44164716.03 44164716.05 44164716.07 0.1860 0.1830

Venus 116208-03-19 23:58 G 44165238.43 44165238.50 44165238.58 0.3709 0.2617

Jupiter 116209-04-10 20:22 G 44165625.29 44165625.35 44165625.42 0.0494 0.0457

Jupiter 116209-07-09 21:34 G 44165715.25 44165715.40 44165715.54 0.0497 0.0271

Venus 116213-10-03 17:00 G 44167262.11 44167262.21 44167262.32 0.3705 0.0830

Jupiter 116214-12-17 13:24 G 44167701.94 44167702.06 44167702.19 0.0533 0.0169

Jupiter 116215-03-16 23:00 G 44167791.43 44167791.46 44167791.49 0.0530 0.0513

Mars 116216-03-05 21:34 G 44168146.30 44168146.40 44168146.51 0.1869 0.0766

Venus 116219-04-19 10:03 G 44169285.81 44169285.92 44169286.02 0.3702 0.0922

Saturn 116220-12-24 02:36 G 44169900.49 44169900.61 44169900.73 0.0285 0.0155

Saturn 116221-03-22 15:20 G 44169989.01 44169989.14 44169989.28 0.0285 0.0011

Jupiter 116221-04-27 20:51 G 44170025.20 44170025.37 44170025.54 0.0496 0.0089

Saturn 116221-06-19 04:03 G 44170077.56 44170077.67 44170077.78 0.0285 0.0170

Earth 116223-08-19 21:20 G 44170869.32 44170869.39 44170869.46 0.2667 0.2048

Moon 116223-08-19 22:17 G 44170869.35 44170869.43 44170869.50 0.2669 0.1964 *

Venus 116224-11-02 02:36 G 44171309.54 44171309.61 44171309.69 0.3698 0.2608

Mars 116225-07-27 06:12 G 44171576.65 44171576.76 44171576.88 0.1877 0.0324

Neptune 116225-08-27 03:05 G 44171607.61 44171607.63 44171607.67 0.0089 0.0088

Neptune 116225-11-23 05:44 G 44171695.68 44171695.74 44171695.84 0.0089 0.0079

Neptune 116226-02-19 08:51 G 44171783.78 44171783.87 44171784.00 0.0089 0.0070

Venus 116226-05-18 03:48 G 44171871.55 44171871.66 44171871.77 0.3669 0.2334

Neptune 116226-05-18 11:58 G 44171871.89 44171872.00 44171872.15 0.0089 0.0061

Neptune 116226-08-14 15:05 G 44171960.00 44171960.13 44171960.29 0.0089 0.0052

Mars 116226-08-22 21:48 G 44171968.37 44171968.41 44171968.46 0.1676 0.1616

Jupiter 116226-10-05 16:17 G 44172012.08 44172012.18 44172012.28 0.0534 0.0348

Neptune 116226-11-10 18:12 G 44172048.11 44172048.26 44172048.43 0.0089 0.0043

Jupiter 116227-01-03 02:22 G 44172101.50 44172101.60 44172101.70 0.0531 0.0345

Neptune 116227-02-06 21:20 G 44172136.23 44172136.39 44172136.56 0.0089 0.0034

Neptune 116227-05-06 00:27 G 44172224.35 44172224.52 44172224.70 0.0089 0.0025

Neptune 116227-08-02 03:34 G 44172312.48 44172312.65 44172312.83 0.0089 0.0016

Neptune 116227-10-29 06:41 G 44172400.60 44172400.78 44172400.96 0.0089 0.0007

Neptune 116228-01-25 09:48 G 44172488.73 44172488.91 44172489.10 0.0089 0.0003

Neptune 116228-04-22 12:56 G 44172576.86 44172577.04 44172577.22 0.0089 0.0011

Neptune 116228-07-19 16:03 G 44172665.00 44172665.17 44172665.35 0.0089 0.0021

Neptune 116228-10-15 19:10 G 44172753.13 44172753.30 44172753.48 0.0089 0.0030

Neptune 116229-01-11 22:17 G 44172841.28 44172841.43 44172841.60 0.0089 0.0039

Neptune 116229-04-10 01:24 G 44172929.42 44172929.56 44172929.73 0.0089 0.0049

Neptune 116229-07-07 04:46 G 44173017.57 44173017.70 44173017.85 0.0089 0.0058

Neptune 116229-10-03 07:39 G 44173105.72 44173105.82 44173105.96 0.0089 0.0068

Neptune 116229-12-30 11:15 G 44173193.88 44173193.97 44173194.07 0.0089 0.0076

Neptune 116230-03-28 14:08 G 44173282.06 44173282.09 44173282.16 0.0089 0.0086

Venus 116231-12-02 07:24 G 44173895.68 44173895.81 44173895.95 0.3673 0.1362

Jupiter 116233-02-13 20:08 G 44174335.17 44174335.34 44174335.51 0.0495 0.0093

Mars 116234-12-17 14:22 G 44175007.03 44175007.10 44175007.17 0.1885 0.1457

Saturn 116235-04-15 11:00 G 44175125.80 44175125.96 44175126.11 0.0275 0.0122

Saturn 116235-07-13 06:27 G 44175214.60 44175214.77 44175214.94 0.0275 0.0065

Saturn 116235-10-10 01:53 G 44175303.52 44175303.58 44175303.65 0.0274 0.0253

Mars 116236-01-12 22:32 G 44175398.28 44175398.44 44175398.60 0.1669 0.0320

Earth 116236-08-21 15:48 G 44175620.05 44175620.16 44175620.28 0.2665 0.0272

Moon 116236-08-21 16:17 G 44175620.06 44175620.18 44175620.29 0.2659 0.0193 *

Jupiter 116238-10-22 05:00 G 44176411.58 44176411.71 44176411.84 0.0532 0.0163

Moon 116239-02-22 14:22 G 44176535.07 44176535.10 44176535.13 0.2660 0.2602

Uranus 116244-02-06 09:05 G 44178344.87 44178344.88 44178344.88 0.0138 0.0138

Uranus 116244-05-04 12:56 G 44178432.97 44178433.04 44178433.11 0.0138 0.0118

Uranus 116244-07-31 16:32 G 44178521.10 44178521.19 44178521.30 0.0139 0.0099

Uranus 116244-10-27 20:36 G 44178609.25 44178609.36 44178609.48 0.0139 0.0078

Jupiter 116244-12-02 19:39 G 44178645.17 44178645.32 44178645.46 0.0494 0.0272

Uranus 116245-01-24 00:27 G 44178697.40 44178697.52 44178697.65 0.0139 0.0059

Jupiter 116245-03-02 21:05 G 44178735.32 44178735.38 44178735.44 0.0497 0.0466

Uranus 116245-04-22 04:17 G 44178785.55 44178785.68 44178785.82 0.0139 0.0039

Mars 116245-06-03 23:29 G 44178828.35 44178828.48 44178828.62 0.1662 0.0927

Uranus 116245-07-19 08:22 G 44178873.71 44178873.85 44178873.99 0.0139 0.0019

Uranus 116245-10-15 11:58 G 44178961.86 44178962.00 44178962.15 0.0139 0.0005

Uranus 116246-01-11 15:48 G 44179050.02 44179050.16 44179050.30 0.0139 0.0020

Uranus 116246-04-09 19:39 G 44179138.19 44179138.32 44179138.45 0.0139 0.0040

Uranus 116246-07-06 23:29 G 44179226.35 44179226.48 44179226.60 0.0139 0.0059

Uranus 116246-10-03 03:05 G 44179314.52 44179314.63 44179314.75 0.0139 0.0079

Uranus 116246-12-30 06:41 G 44179402.69 44179402.78 44179402.89 0.0139 0.0098

Uranus 116247-03-28 10:32 G 44179490.87 44179490.94 44179491.02 0.0139 0.0117

Uranus 116247-06-24 14:08 G 44179579.07 44179579.09 44179579.13 0.0139 0.0136

Moon 116249-08-24 09:34 G 44180370.81 44180370.90 44180371.00 0.2659 0.1359

Earth 116249-08-24 10:17 G 44180370.83 44180370.93 44180371.02 0.2663 0.1492 *

Saturn 116250-05-13 05:44 G 44180632.64 44180632.74 44180632.85 0.0284 0.0184

Saturn 116250-08-09 18:41 G 44180721.14 44180721.28 44180721.42 0.0284 0.0021

Jupiter 116250-08-10 08:22 G 44180721.71 44180721.85 44180721.98 0.0533 0.0010

Saturn 116250-11-06 07:24 G 44180809.69 44180809.81 44180809.93 0.0285 0.0140

Moon 116252-02-25 17:15 G 44181286.07 44181286.22 44181286.37 0.2663 0.0315

Earth 116252-02-25 18:12 G 44181286.11 44181286.26 44181286.41 0.2668 0.0453 *

Mars 116255-09-04 21:48 G 44182573.31 44182573.41 44182573.51 0.1869 0.0899

Jupiter 116256-09-20 18:27 G 44182955.22 44182955.27 44182955.34 0.0494 0.0456

Jupiter 116256-12-19 19:24 G 44183045.17 44183045.31 44183045.46 0.0496 0.0270

Jupiter 116262-05-29 11:58 G 44185031.87 44185032.00 44185032.12 0.0534 0.0171

Jupiter 116262-08-26 21:34 G 44185121.37 44185121.40 44185121.43 0.0530 0.0513

Saturn 116264-09-01 10:03 G 44185857.79 44185857.92 44185858.05 0.0275 0.0181

Venus 116264-10-24 21:48 G 44185911.33 44185911.41 44185911.50 0.3708 0.2033

Saturn 116264-11-29 05:15 G 44185946.55 44185946.72 44185946.90 0.0275 0.0006

Mars 116265-01-25 06:12 G 44186003.65 44186003.76 44186003.88 0.1876 0.0196

Saturn 116265-02-26 00:41 G 44186035.41 44186035.53 44186035.66 0.0274 0.0191

Jupiter 116268-10-07 18:56 G 44187355.12 44187355.29 44187355.46 0.0496 0.0089

Moon 116269-08-20 02:08 G 44187671.51 44187671.59 44187671.68 0.2660 0.1666

Earth 116269-08-20 02:22 G 44187671.51 44187671.60 44187671.69 0.2667 0.1667 *

Venus 116270-05-10 14:51 G 44187935.01 44187935.12 44187935.23 0.3705 0.0265

Jupiter 116274-03-17 14:51 G 44189342.02 44189342.12 44189342.23 0.0534 0.0346

Jupiter 116274-06-15 00:56 G 44189431.44 44189431.54 44189431.64 0.0531 0.0348

Mars 116274-06-17 14:22 G 44189434.02 44189434.10 44189434.18 0.1884 0.1328

Mars 116275-07-13 23:15 G 44189825.31 44189825.47 44189825.62 0.1669 0.0497

Venus 116275-11-24 07:39 G 44189958.73 44189958.82 44189958.92 0.3701 0.1478

Saturn 116279-09-30 06:41 G 44191364.71 44191364.78 44191364.85 0.0284 0.0243

Saturn 116279-12-27 19:39 G 44191453.19 44191453.32 44191453.45 0.0285 0.0079

Saturn 116280-03-25 08:22 G 44191541.72 44191541.85 44191541.98 0.0285 0.0083

Saturn 116280-06-21 20:51 G 44191630.31 44191630.37 44191630.44 0.0285 0.0244

Jupiter 116280-07-26 18:27 G 44191665.10 44191665.27 44191665.44 0.0495 0.0092

Venus 116281-06-09 00:27 G 44191982.46 44191982.52 44191982.57 0.3697 0.3133

Moon 116282-08-22 20:08 G 44192422.23 44192422.34 44192422.45 0.2663 0.0047

Earth 116282-08-22 20:51 G 44192422.25 44192422.37 44192422.48 0.2665 0.0120 *

Venus 116282-12-23 04:17 G 44192544.55 44192544.68 44192544.81 0.3670 0.1221

Mars 116284-12-03 00:12 G 44193255.36 44193255.51 44193255.65 0.1662 0.0761

Uranus 116285-02-20 01:24 G 44193334.52 44193334.56 44193334.64 0.0139 0.0131

Moon 116285-02-22 18:41 G 44193337.22 44193337.28 44193337.35 0.2665 0.2382

Earth 116285-02-22 20:08 G 44193337.25 44193337.34 44193337.44 0.2666 0.2054 *

Uranus 116285-05-19 07:53 G 44193422.73 44193422.83 44193422.96 0.0139 0.0106

Uranus 116285-08-15 14:22 G 44193510.97 44193511.10 44193511.25 0.0139 0.0082

Uranus 116285-11-11 21:05 G 44193599.22 44193599.38 44193599.54 0.0139 0.0057

Jupiter 116286-01-03 17:29 G 44193652.22 44193652.23 44193652.25 0.0535 0.0529

Uranus 116286-02-08 03:34 G 44193687.48 44193687.65 44193687.82 0.0139 0.0032

Jupiter 116286-04-03 04:03 G 44193741.55 44193741.67 44193741.80 0.0532 0.0177

Uranus 116286-05-07 10:03 G 44193775.75 44193775.92 44193776.10 0.0139 0.0007

Uranus 116286-08-03 16:46 G 44193864.02 44193864.20 44193864.37 0.0139 0.0018

Uranus 116286-10-30 23:15 G 44193952.30 44193952.47 44193952.64 0.0139 0.0044

Uranus 116287-01-27 05:44 G 44194040.60 44194040.74 44194040.91 0.0139 0.0069

Uranus 116287-04-25 12:41 G 44194128.90 44194129.03 44194129.16 0.0139 0.0094

Uranus 116287-07-22 19:10 G 44194217.22 44194217.30 44194217.40 0.0139 0.0120

Venus 116288-07-08 08:22 G 44194568.75 44194568.85 44194568.95 0.3674 0.2559

Jupiter 116292-05-14 17:58 G 44195975.11 44195975.25 44195975.40 0.0494 0.0268

Jupiter 116292-08-12 19:24 G 44196065.26 44196065.31 44196065.37 0.0497 0.0472

Saturn 116294-01-19 10:03 G 44196589.84 44196589.92 44196590.03 0.0275 0.0230

Saturn 116294-04-18 05:29 G 44196678.56 44196678.73 44196678.90 0.0275 0.0045

Saturn 116294-07-16 00:56 G 44196767.39 44196767.54 44196767.69 0.0275 0.0143

Mars 116295-03-05 21:48 G 44197000.31 44197000.41 44197000.50 0.1868 0.1018

Moon 116295-08-25 14:36 G 44197173.03 44197173.11 44197173.19 0.2669 0.1820

Earth 116295-08-25 15:05 G 44197173.05 44197173.13 44197173.21 0.2663 0.1850 *

Jupiter 116298-01-20 06:27 G 44198051.64 44198051.77 44198051.91 0.0533 0.0015

Moon 116298-02-25 23:44 G 44198088.36 44198088.49 44198088.63 0.2675 0.1085

Earth 116298-02-26 00:27 G 44198088.38 44198088.52 44198088.66 0.2669 0.1087 *

Jupiter 116304-03-03 17:29 G 44200285.16 44200285.23 44200285.30 0.0494 0.0444

Jupiter 116304-06-01 18:27 G 44200375.12 44200375.27 44200375.41 0.0496 0.0281

Mars 116304-07-27 06:12 G 44200430.64 44200430.76 44200430.88 0.1877 0.0075

Neptune 116306-03-30 10:03 G 44201041.90 44201041.92 44201041.94 0.0088 0.0087

Neptune 116306-06-26 11:44 G 44201129.93 44201129.99 44201130.05 0.0088 0.0080

Neptune 116306-09-22 12:56 G 44201217.97 44201218.04 44201218.13 0.0088 0.0073

Neptune 116306-12-19 14:22 G 44201306.02 44201306.10 44201306.21 0.0088 0.0067

Neptune 116307-03-17 16:03 G 44201394.08 44201394.17 44201394.29 0.0088 0.0059

Neptune 116307-06-13 17:44 G 44201482.13 44201482.24 44201482.36 0.0088 0.0052

Neptune 116307-09-09 19:10 G 44201570.19 44201570.30 44201570.43 0.0088 0.0046

Neptune 116307-12-06 20:51 G 44201658.25 44201658.37 44201658.50 0.0088 0.0038

Neptune 116308-03-03 22:32 G 44201746.31 44201746.44 44201746.57 0.0088 0.0031

Neptune 116308-05-30 23:58 G 44201834.37 44201834.50 44201834.64 0.0088 0.0024

Neptune 116308-08-27 01:39 G 44201922.43 44201922.57 44201922.70 0.0088 0.0018

Neptune 116308-11-23 03:05 G 44202010.49 44202010.63 44202010.77 0.0088 0.0011

Saturn 116309-02-17 10:17 G 44202096.89 44202096.93 44202096.97 0.0284 0.0269

Neptune 116309-02-19 04:32 G 44202098.55 44202098.69 44202098.83 0.0088 0.0005

Saturn 116309-05-16 23:15 G 44202185.34 44202185.47 44202185.60 0.0284 0.0105

Neptune 116309-05-18 06:12 G 44202186.62 44202186.76 44202186.90 0.0088 0.0003

Saturn 116309-08-13 11:58 G 44202273.87 44202274.00 44202274.14 0.0284 0.0057

Neptune 116309-08-14 07:39 G 44202274.68 44202274.82 44202274.96 0.0088 0.0010

Jupiter 116309-11-09 09:34 G 44202361.78 44202361.90 44202362.03 0.0534 0.0185

Saturn 116309-11-10 00:41 G 44202362.44 44202362.53 44202362.61 0.0285 0.0217

Neptune 116309-11-10 09:05 G 44202362.75 44202362.88 44202363.02 0.0088 0.0017

Neptune 116310-02-06 10:32 G 44202450.81 44202450.94 44202451.08 0.0088 0.0023

Jupiter 116310-02-06 19:24 G 44202451.27 44202451.31 44202451.35 0.0531 0.0501

Neptune 116310-05-05 11:58 G 44202538.88 44202539.00 44202539.14 0.0088 0.0030

Neptune 116310-08-01 13:24 G 44202626.94 44202627.06 44202627.20 0.0088 0.0037

Neptune 116310-10-28 15:05 G 44202715.01 44202715.13 44202715.25 0.0088 0.0043

Neptune 116311-01-24 16:32 G 44202803.08 44202803.19 44202803.31 0.0088 0.0050

Neptune 116311-04-22 17:44 G 44202891.15 44202891.24 44202891.36 0.0088 0.0057

Neptune 116311-07-19 19:24 G 44202979.22 44202979.31 44202979.41 0.0088 0.0063

Neptune 116311-10-15 20:36 G 44203067.29 44203067.36 44203067.46 0.0088 0.0070

Neptune 116312-01-11 22:17 G 44203155.37   44203155.43   44203155.50 0.0088 0.0076

Neptune 116312-04-08 23:29 G 44203243.45   44203243.48   44203243.54 0.0088 0.0083

Mars   116313-12-17 14:36 G 44203861.02   44203861.11   44203861.20 0.1884 0.1186

Mars   116315-01-12 23:44 G 44204252.34   44204252.49   44204252.64 0.1669 0.0666

Moon   116315-08-22 06:27 G 44204473.68   44204473.77   44204473.87 0.2668 0.1352

Earth   116315-08-22 07:24 G 44204473.71   44204473.81   44204473.90 0.2666 0.1293 *

Venus   116315-11-17 02:36 G 44204560.56   44204560.61   44204560.66 0.3711 0.3262

Jupiter 116316-03-20 16:46 G 44204685.03   44204685.20   44204685.37 0.0496 0.0086

Venus   116321-06-01 19:39 G 44206584.22   44206584.32   44206584.42 0.3707 0.1460

Jupiter 116321-08-28 13:10 G 44206671.95   44206672.05   44206672.15 0.0535 0.0352

Jupiter 116321-11-25 23:15 G 44206761.37   44206761.47   44206761.57 0.0531 0.0344

Saturn   116323-09-06 05:15 G 44207410.56   44207410.72   44207410.89 0.0275 0.0098

Saturn   116323-12-04 00:41 G 44207499.36   44207499.53   44207499.70 0.0274 0.0088

Mars   116324-06-04 00:41 G 44207682.38   44207682.53   44207682.69 0.1663 0.0590

Venus   116326-12-16 12:41 G 44208607.92   44208608.03   44208608.14 0.3704 0.0306

Jupiter 116328-01-07 16:17 G 44208995.01   44208995.18   44208995.35 0.0495 0.0095

Uranus   116328-02-27 15:48 G 44209046.14   44209046.16   44209046.21 0.0138 0.0134

Uranus   116328-05-25 19:53 G 44209134.26   44209134.33   44209134.41 0.0139 0.0114

Uranus   116328-08-21 23:44 G 44209222.39   44209222.49   44209222.60 0.0139 0.0094

Moon   116328-08-24 01:39 G 44209224.46   44209224.57   44209224.69 0.2671 0.0437

Earth   116328-08-24 01:39 G 44209224.46   44209224.57   44209224.68 0.2665 0.0484 *

Uranus   116328-11-18 03:48 G 44209310.54   44209310.66   44209310.78 0.0139 0.0074

Uranus   116329-02-14 07:39 G 44209398.69   44209398.82   44209398.95 0.0139 0.0054

Uranus   116329-05-13 11:29 G 44209486.85   44209486.98   44209487.12 0.0139 0.0034

Uranus   116329-08-09 15:20 G 44209575.00   44209575.14   44209575.28 0.0139 0.0015

Uranus   116329-11-05 19:10 G 44209663.16   44209663.30   44209663.44 0.0139 0.0005

Uranus   116330-02-01 23:00 G 44209751.32   44209751.46   44209751.60 0.0139 0.0025

Uranus   116330-05-01 02:51 G 44209839.49   44209839.62   44209839.75 0.0139 0.0044

Uranus   116330-07-28 06:27 G 44209927.65   44209927.77   44209927.90 0.0139 0.0064

Uranus   116330-10-24 10:17 G 44210015.82   44210015.93   44210016.04 0.0139 0.0083

Uranus 116331-01-20 13:53 G 44210103.99 44210104.08 44210104.18 0.0139 0.0103

Earth 116331-02-25 02:22 G 44210139.48 44210139.60 44210139.73 0.2667 0.1438

Moon 116331-02-25 02:36 G 44210139.49 44210139.61 44210139.73 0.2673 0.1483 *

Uranus 116331-04-18 17:44 G 44210192.18 44210192.24 44210192.31 0.0139 0.0122

Venus 116332-07-01 05:29 G 44210631.64 44210631.73 44210631.82 0.3700 0.2012

Jupiter 116333-06-16 16:03 G 44210982.16 44210982.17 44210982.19 0.0535 0.0530

Jupiter 116333-09-14 02:36 G 44211071.48 44211071.61 44211071.74 0.0532 0.0176

Mars 116334-09-04 21:34 G 44211427.31 44211427.40 44211427.50 0.1868 0.1143

Venus 116338-01-14 22:03 G 44212655.41 44212655.42 44212655.43 0.3696 0.3667

Saturn 116338-10-04 00:12 G 44212917.40 44212917.51 44212917.62 0.0284 0.0163

Saturn 116338-12-31 12:56 G 44213005.91 44213006.04 44213006.18 0.0285 0.0008

Saturn 116339-03-30 01:39 G 44213094.46 44213094.57 44213094.68 0.0285 0.0161

Venus 116339-07-31 05:00 G 44213217.57 44213217.71 44213217.86 0.3671 0.0109

Jupiter 116339-10-26 15:48 G 44213305.02 44213305.16 44213305.30 0.0495 0.0271

Jupiter 116340-01-24 17:29 G 44213395.17 44213395.23 44213395.28 0.0497 0.0469

Earth 116341-08-26 19:53 G 44213975.27 44213975.33 44213975.39 0.2663 0.2211

Moon 116341-08-26 20:36 G 44213975.31 44213975.36 44213975.41 0.2665 0.2391 *

Mars 116344-01-26 06:12 G 44214857.65 44214857.76 44214857.88 0.1876 0.0069

Earth 116344-02-28 06:41 G 44214890.67 44214890.78 44214890.90 0.2669 0.1735

Moon 116344-02-28 08:08 G 44214890.74 44214890.84 44214890.94 0.2672 0.2007 *

Pluto 116344-03-14 08:51 G 44214905.84 44214905.87 44214905.93 0.0059 0.0057

Pluto 116344-06-10 10:17 G 44214993.83 44214993.93 44214994.06 0.0059 0.0049

Pluto 116344-09-06 11:44 G 44215081.85 44215081.99 44215082.15 0.0059 0.0040

Pluto 116344-12-03 13:10 G 44215169.89 44215170.05 44215170.23 0.0059 0.0031

Pluto 116345-03-01 14:36 G 44215257.93 44215258.11 44215258.30 0.0059 0.0022

Pluto 116345-05-28 16:03 G 44215345.98 44215346.17 44215346.37 0.0060 0.0013

Jupiter 116345-07-03 05:44 G 44215381.60 44215381.74 44215381.87 0.0532 0.0011

Pluto 116345-08-24 17:29 G 44215434.03 44215434.23 44215434.43 0.0060 0.0004

Pluto 116345-11-20 18:41 G 44215522.09 44215522.28 44215522.49 0.0060 0.0006

Pluto 116346-02-16 20:08 G 44215610.15 44215610.34 44215610.54 0.0060 0.0015

Pluto 116346-05-15 21:20 G 44215698.22 44215698.39 44215698.59 0.0060 0.0024

Pluto 116346-08-11 22:46 G 44215786.30 44215786.45 44215786.63 0.0060 0.0033

Pluto 116346-11-08 00:12 G 44215874.38 44215874.51 44215874.66 0.0060 0.0042

Pluto 116347-02-04 01:10 G 44215962.48 44215962.55 44215962.68 0.0060 0.0052

Jupiter 116351-08-14 15:34 G 44217615.08 44217615.15 44217615.23 0.0494 0.0443

Jupiter 116351-11-12 16:32 G 44217705.05 44217705.19 44217705.33 0.0496 0.0283

Saturn 116353-01-23 05:29 G 44218142.58 44218142.73 44218142.87 0.0275 0.0147

Saturn 116353-04-22 00:41 G 44218231.36 44218231.53 44218231.71 0.0275 0.0039

Mars 116353-06-17 14:22 G 44218288.01 44218288.10 44218288.20 0.1884 0.1074

Saturn 116353-07-19 20:22 G 44218320.25 44218320.35 44218320.45 0.0274 0.0227

Mars 116354-07-14 00:27 G 44218679.38 44218679.52 44218679.66 0.1670 0.0849

Jupiter 116357-04-21 07:53 G 44219691.70 44219691.83 44219691.95 0.0534 0.0191

Jupiter 116357-07-19 17:29 G 44219781.19 44219781.23 44219781.28 0.0530 0.0494

Earth 116361-08-22 12:12 G 44221275.90 44221276.01 44221276.12 0.2666 0.0908

Moon 116361-08-22 12:41 G 44221275.92 44221276.03 44221276.14 0.2671 0.0809 *

Jupiter 116363-08-31 15:34 G 44222014.98 44222015.15 44222015.32 0.0496 0.0096

Mars 116363-12-04 01:24 G 44222109.40 44222109.56 44222109.72 0.1663 0.0411

Saturn 116368-02-21 03:48 G 44223649.56 44223649.66 44223649.77 0.0284 0.0187

Saturn 116368-05-19 16:46 G 44223738.06 44223738.20 44223738.34 0.0284 0.0025

Saturn 116368-08-16 05:29 G 44223826.61 44223826.73 44223826.85 0.0285 0.0138

Jupiter 116369-02-07 10:46 G 44224001.85 44224001.95 44224002.05 0.0535 0.0369

Uranus 116369-03-13 08:22 G 44224035.79 44224035.85 44224035.94 0.0139 0.0125

Jupiter 116369-05-07 20:51 G 44224091.27 44224091.37 44224091.48 0.0531 0.0329

Uranus 116369-06-09 14:51 G 44224124.01 44224124.12 44224124.25 0.0139 0.0101

Uranus 116369-09-05 21:20 G 44224212.25 44224212.39 44224212.55 0.0139 0.0076

Uranus 116369-12-03 03:48 G 44224300.50 44224300.66 44224300.83 0.0139 0.0052

Uranus 116370-03-01 10:32 G 44224388.76 44224388.94 44224389.11 0.0139 0.0027

Uranus 116370-05-28 17:00 G 44224477.03 44224477.21 44224477.39 0.0139 0.0002

Uranus 116370-08-24 23:29 G 44224565.31 44224565.48 44224565.66 0.0139 0.0024

Uranus 116370-11-21 05:58 G 44224653.59 44224653.75 44224653.93 0.0139 0.0049

Uranus 116371-02-17 12:41 G 44224741.88 44224742.03 44224742.19 0.0139 0.0074

Uranus 116371-05-16 19:10 G 44224830.19 44224830.30 44224830.44 0.0139 0.0100

Uranus 116371-08-13 02:08 G 44224918.52 44224918.59 44224918.67 0.0139 0.0125

Venus 116372-06-23 00:27 G 44225233.45 44225233.52 44225233.59 0.3710 0.2675

Mars 116373-04-25 02:36 G 44225539.59 44225539.61 44225539.63 0.1656 0.1636

Mars 116374-03-05 21:48 G 44225854.33 44225854.41 44225854.49 0.1868 0.1279

Earth 116374-08-25 06:41 G 44226026.67 44226026.78 44226026.88 0.2664 0.0858

Moon 116374-08-25 07:24 G 44226026.70 44226026.81 44226026.91 0.2664 0.0971 *

Jupiter 116375-06-19 13:53 G 44226324.92 44226325.08 44226325.25 0.0495 0.0099

Earth 116377-02-25 08:36 G 44226941.72 44226941.86 44226942.00 0.2667 0.0828

Moon 116377-02-25 10:03 G 44226941.78 44226941.92 44226942.07 0.2666 0.0541 *

Venus 116378-01-06 17:29 G 44227257.13 44227257.23 44227257.34 0.3706 0.0886

Jupiter 116381-02-24 00:41 G 44228401.40 44228401.53 44228401.66 0.0532 0.0168

Saturn 116382-06-12 05:58 G 44228874.63 44228874.75 44228874.88 0.0275 0.0193

Saturn 116382-09-09 01:10 G 44228963.38 44228963.55 44228963.73 0.0275 0.0009

Saturn 116382-12-06 20:36 G 44229052.23 44229052.36 44229052.50 0.0274 0.0179

Venus 116383-07-23 10:32 G 44229280.84 44229280.94 44229281.04 0.3703 0.0868

Mars 116383-07-27 06:12 G 44229284.64 44229284.76 44229284.88 0.1876 0.0184

Jupiter 116387-04-07 13:24 G 44230634.92 44230635.06 44230635.21 0.0494 0.0276

Jupiter 116387-07-06 14:51 G 44230725.06 44230725.12 44230725.19 0.0497 0.0462

Earth 116387-08-28 00:56 G 44230777.51 44230777.54 44230777.56 0.2662 0.2577

Moon 116387-08-28 00:56 G 44230777.52 44230777.54 44230777.56 0.2655 0.2596 *

Venus 116389-02-05 03:20 G 44231304.56 44231304.64 44231304.71 0.3699 0.2559

Moon 116390-02-28 13:10 G 44231692.98 44231693.05 44231693.12 0.2663 0.2326

Earth 116390-02-28 12:56 G 44231692.98 44231693.04 44231693.11 0.2669 0.2374 *

Neptune 116390-05-25 02:08 G 44231778.54 44231778.59 44231778.67 0.0089 0.0082

Venus 116390-08-21 02:08 G 44231866.49 44231866.59 44231866.69 0.3667 0.2563

Neptune 116390-08-21 05:15 G 44231866.63 44231866.72 44231866.83 0.0089 0.0073 *

Neptune 116390-11-17 08:22 G 44231954.73 44231954.85 44231954.98 0.0089 0.0064

Neptune 116391-02-13 11:29 G 44232042.84 44232042.98 44232043.12 0.0089 0.0056

Neptune 116391-05-12 14:36 G 44232130.95   44232131.11   44232131.26 0.0089 0.0047

Neptune 116391-08-08 17:15 G 44232219.07   44232219.22   44232219.40 0.0089 0.0038

Neptune 116391-11-04 20:36 G 44232307.19   44232307.36   44232307.53 0.0089 0.0029

Neptune 116392-01-31 23:44 G 44232395.31   44232395.49   44232395.67 0.0089 0.0020

Neptune 116392-04-29 02:51 G 44232483.44   44232483.62   44232483.80 0.0089 0.0011

Neptune 116392-07-26 05:58 G 44232571.57   44232571.75   44232571.93 0.0089 0.0002

Neptune 116392-10-22 09:05 G 44232659.70   44232659.88   44232660.06 0.0089 0.0008

Jupiter 116392-12-13 04:03 G 44232711.53   44232711.67   44232711.80 0.0533 0.0015

Mars   116392-12-16 14:22 G 44232715.00   44232715.10   44232715.21 0.1884 0.0937

Neptune 116393-01-18 11:58 G 44232747.83   44232748.00   44232748.19 0.0089 0.0017

Neptune 116393-04-16 15:05 G 44232835.97   44232836.13   44232836.31 0.0089 0.0026

Neptune 116393-07-13 18:12 G 44232924.10   44232924.26   44232924.44 0.0089 0.0036

Neptune 116393-10-09 21:34 G 44233012.25   44233012.40   44233012.56 0.0089 0.0045

Neptune 116394-01-06 00:27 G 44233100.39   44233100.52   44233100.68 0.0089 0.0054

Mars   116394-01-12 01:10 G 44233106.42   44233106.55   44233106.68 0.1670 0.1031

Neptune 116394-04-04 03:34 G 44233188.54   44233188.65   44233188.80 0.0089 0.0064

Neptune 116394-07-01 06:56 G 44233276.70   44233276.79   44233276.91 0.0089 0.0073

Earth   116394-08-20 22:32 G 44233327.39   44233327.44   44233327.50 0.2668 0.2334

Moon   116394-08-20 23:15 G 44233327.41   44233327.47   44233327.53 0.2671 0.2179 *

Neptune 116394-09-27 10:32 G 44233364.87   44233364.94   44233365.01 0.0089 0.0082

Venus   116396-03-06 05:58 G 44233890.61   44233890.75   44233890.88 0.3672 0.1107

Saturn   116397-07-10 05:00 G 44234381.64   44234381.71   44234381.78 0.0284 0.0244

Saturn   116397-10-06 17:44 G 44234470.11   44234470.24   44234470.38 0.0285 0.0081

Saturn   116398-01-03 06:41 G 44234558.64   44234558.78   44234558.91 0.0285 0.0082

Saturn   116398-04-01 19:10 G 44234647.23   44234647.30   44234647.37 0.0285 0.0242

Jupiter 116399-01-24 13:10 G 44234944.99   44234945.05   44234945.12 0.0494 0.0450

Jupiter 116399-04-24 14:08 G 44235034.95   44235035.09   44235035.23 0.0497 0.0276

Mars   116403-06-04 02:08 G 44236536.42   44236536.59   44236536.75 0.1663 0.0242

Jupiter 116404-10-01 06:56 G 44237021.66   44237021.79   44237021.91 0.0533 0.0179

Jupiter 116404-12-29 16:32 G 44237111.16   44237111.19   44237111.23 0.0530 0.0505

Earth 116407-08-23 17:15 G 44238078.11 44238078.22 44238078.33 0.2666 0.0540

Moon 116407-08-23 17:44 G 44238078.13 44238078.24 44238078.35 0.2661 0.0487 *

Jupiter 116411-02-10 13:39 G 44239344.90 44239345.07 44239345.24 0.0496 0.0095

Saturn 116411-10-30 05:58 G 44239606.68 44239606.75 44239606.83 0.0275 0.0243

Saturn 116412-01-27 01:10 G 44239695.38 44239695.55 44239695.72 0.0275 0.0059

Uranus 116412-03-18 22:46 G 44239747.41 44239747.45 44239747.51 0.0139 0.0130

Saturn 116412-04-24 20:36 G 44239784.20 44239784.36 44239784.52 0.0274 0.0127

Uranus 116412-06-15 02:51 G 44239835.54 44239835.62 44239835.71 0.0139 0.0110

Uranus 116412-09-11 06:41 G 44239923.68 44239923.78 44239923.90 0.0139 0.0090

Mars 116412-10-24 03:20 G 44239966.57 44239966.64 44239966.72 0.1657 0.1457

Uranus 116412-12-08 10:46 G 44240011.83 44240011.95 44240012.08 0.0139 0.0070

Uranus 116413-03-06 14:36 G 44240099.98 44240100.11 44240100.25 0.0139 0.0050

Uranus 116413-06-02 18:41 G 44240188.14 44240188.28 44240188.41 0.0139 0.0030

Uranus 116413-08-29 22:32 G 44240276.30 44240276.44 44240276.58 0.0139 0.0011

Mars 116413-09-03 21:34 G 44240281.33 44240281.40 44240281.48 0.1868 0.1392

Uranus 116413-11-26 02:22 G 44240364.46 44240364.60 44240364.74 0.0139 0.0010

Uranus 116414-02-22 05:58 G 44240452.62 44240452.75 44240452.89 0.0139 0.0029

Uranus 116414-05-21 09:48 G 44240540.78 44240540.91 44240541.04 0.0139 0.0049

Uranus 116414-08-17 13:39 G 44240628.95 44240629.07 44240629.19 0.0139 0.0068

Uranus 116414-11-13 17:15 G 44240717.12 44240717.22 44240717.33 0.0139 0.0088

Uranus 116415-02-09 20:51 G 44240805.30 44240805.37 44240805.47 0.0139 0.0107

Uranus 116415-05-09 00:41 G 44240893.48 44240893.53 44240893.59 0.0139 0.0126

Jupiter 116416-07-20 08:51 G 44241331.78 44241331.87 44241331.97 0.0534 0.0375

Jupiter 116416-10-17 19:10 G 44241421.19 44241421.30 44241421.40 0.0531 0.0322

Moon 116420-08-25 11:00 G 44242828.86 44242828.96 44242829.07 0.2658 0.1207

Earth 116420-08-25 11:29 G 44242828.88 44242828.98 44242829.08 0.2664 0.1226 *

Jupiter 116422-11-29 12:41 G 44243654.86 44243655.03 44243655.20 0.0495 0.0089

Mars 116423-01-25 06:12 G 44243711.65 44243711.76 44243711.88 0.1876 0.0317

Moon 116423-02-26 14:08 G 44243743.94 44243744.09 44243744.24 0.2662 0.0225

Earth 116423-02-26 14:51 G 44243743.97 44243744.12 44243744.27 0.2668 0.0198 *

Saturn 116426-11-27 08:36 G 44245113.82 44245113.86 44245113.90 0.0284 0.0268

Saturn 116427-02-23 21:34 G 44245202.27 44245202.40 44245202.53 0.0284 0.0105

Saturn 116427-05-23 10:32 G 44245290.80 44245290.94 44245291.07 0.0285 0.0058

Saturn 116427-08-19 23:00 G 44245379.38 44245379.46 44245379.55 0.0285 0.0219

Jupiter 116428-08-05 22:17 G 44245731.30 44245731.43 44245731.56 0.0532 0.0152

Venus 116429-01-27 22:17 G 44245906.34 44245906.43 44245906.52 0.3709 0.2090

Mars 116432-06-16 14:36 G 44247142.00 44247142.11 44247142.21 0.1883 0.0803

Mars 116433-07-13 01:39 G 44247533.46 44247533.57 44247533.69 0.1670 0.1197

Venus 116434-08-13 15:20 G 44247930.04 44247930.14 44247930.25 0.3705 0.0324

Jupiter 116434-09-17 11:15 G 44247964.83 44247964.97 44247965.11 0.0494 0.0281

Jupiter 116434-12-16 12:27 G 44248054.96 44248055.02 44248055.09 0.0497 0.0454

Venus 116440-02-27 08:22 G 44249953.75 44249953.85 44249953.94 0.3701 0.1428

Jupiter 116440-05-25 01:53 G 44250041.45 44250041.58 44250041.72 0.0533 0.0012

Earth 116440-08-21 03:34 G 44250129.57 44250129.65 44250129.73 0.2667 0.1952

Moon 116440-08-21 03:48 G 44250129.58 44250129.66 44250129.74 0.2660 0.1849 *

Pluto 116440-08-29 06:56 G 44250137.74 44250137.79 44250137.85 0.0085 0.0076

Pluto 116440-11-25 07:53 G 44250225.75 44250225.83 44250225.94 0.0085 0.0059

Pluto 116441-02-21 09:20 G 44250313.78 44250313.89 44250314.01 0.0085 0.0041

Pluto 116441-05-20 10:32 G 44250401.82 44250401.94 44250402.07 0.0085 0.0023

Saturn 116441-06-15 02:22 G 44250427.44 44250427.60 44250427.76 0.0275 0.0099

Pluto 116441-08-16 11:44 G 44250489.86 44250489.99 44250490.13 0.0085 0.0006

Saturn 116441-09-11 21:34 G 44250516.24 44250516.40 44250516.57 0.0274 0.0087

Pluto 116441-11-12 12:56 G 44250577.91 44250578.04 44250578.18 0.0085 0.0012

Pluto 116442-02-08 14:08 G 44250665.97 44250666.09 44250666.22 0.0084 0.0029

Pluto 116442-05-07 15:20 G 44250754.04 44250754.14 44250754.25 0.0084 0.0047

Pluto 116442-08-03 16:32 G 44250842.11 44250842.19 44250842.28 0.0084 0.0064

Pluto 116442-10-30 17:29 G 44250930.21 44250930.23 44250930.28 0.0084 0.0081

Mars 116442-12-03 02:36 G 44250963.45 44250963.61 44250963.78 0.1663 0.0074

Venus 116445-09-12 00:56 G 44251977.49 44251977.54 44251977.60 0.3698 0.3099

Jupiter 116446-07-06 11:00 G 44252274.90 44252274.96 44252275.02 0.0493 0.0455

Jupiter 116446-10-04 11:29 G 44252364.84 44252364.98 44252365.13 0.0496 0.0268

Venus 116447-03-28 02:51 G 44252539.49 44252539.62 44252539.75 0.3669 0.1438

Jupiter 116452-03-13 05:00 G 44254351.59 44254351.71 44254351.84 0.0534 0.0185

Mars 116452-04-24 04:03 G 44254393.57 44254393.67 44254393.77 0.1657 0.1284

Jupiter 116452-06-10 14:51 G 44254441.08 44254441.12 44254441.16 0.0530 0.0501

Venus 116452-10-11 06:56 G 44254563.67 44254563.79 44254563.90 0.3674 0.2307

Mars 116453-03-04 21:48 G 44254708.34 44254708.41 44254708.47 0.1867 0.1524

Uranus 116453-04-02 15:34 G 44254737.07 44254737.15 44254737.25 0.0139 0.0119

Uranus 116453-06-29 22:03 G 44254825.30 44254825.42 44254825.55 0.0139 0.0095

Moon 116453-08-23 21:20 G 44254880.28 44254880.39 44254880.51 0.2662 0.0346

Earth 116453-08-23 22:03 G 44254880.31 44254880.42 44254880.53 0.2665 0.0160 *

Uranus 116453-09-26 04:17 G 44254913.54 44254913.68 44254913.85 0.0139 0.0071

Uranus 116453-12-23 11:00 G 44255001.80 44255001.96 44255002.13 0.0139 0.0045

Uranus 116454-03-21 17:29 G 44255090.06 44255090.23 44255090.41 0.0139 0.0021

Uranus 116454-06-17 23:58 G 44255178.33 44255178.50 44255178.68 0.0139 0.0006

Uranus 116454-09-14 06:27 G 44255266.60 44255266.77 44255266.95 0.0139 0.0030

Uranus 116454-12-11 13:10 G 44255354.89 44255355.05 44255355.22 0.0139 0.0055

Uranus 116455-03-09 19:53 G 44255443.19 44255443.33 44255443.48 0.0139 0.0080

Uranus 116455-06-06 02:22 G 44255531.49 44255531.60 44255531.73 0.0139 0.0106

Uranus 116455-09-02 09:05 G 44255619.83 44255619.88 44255619.95 0.0139 0.0131

Saturn 116456-07-12 22:46 G 44255934.33 44255934.45 44255934.56 0.0284 0.0160

Saturn 116456-10-09 11:29 G 44256022.85 44256022.98 44256023.12 0.0285 0.0010

Saturn 116457-01-06 00:12 G 44256111.40 44256111.51 44256111.63 0.0285 0.0164

Jupiter 116458-07-23 11:00 G 44256674.79 44256674.96 44256675.13 0.0496 0.0085

Mars 116462-07-26 06:12 G 44258138.65 44258138.76 44258138.87 0.1875 0.0443

Jupiter 116463-12-31 07:53 G 44258661.73 44258661.83 44258661.93 0.0534 0.0364

Jupiter 116464-03-29 18:12 G 44258751.16 44258751.26 44258751.36 0.0531 0.0333

Moon 116466-08-26 15:48 G 44259631.07 44259631.16 44259631.25 0.2667 0.1538

Earth 116466-08-26 16:17 G 44259631.10 44259631.18 44259631.27 0.2663 0.1594 *

Moon 116469-02-26 19:53 G 44260546.18 44260546.33 44260546.48 0.2672 0.0272

Earth 116469-02-26 21:05 G 44260546.23 44260546.38 44260546.53 0.2668 0.0427 *

Jupiter 116470-05-11 10:32 G 44260984.78 44260984.94 44260985.11 0.0495 0.0093

Saturn 116470-11-02 02:08 G 44261159.45 44261159.59 44261159.73 0.0275 0.0152

Neptune 116470-12-25 09:48 G 44261212.87 44261212.91 44261212.96 0.0088 0.0083

Saturn 116471-01-29 21:20 G 44261248.22 44261248.39 44261248.56 0.0275 0.0033

Neptune 116471-03-23 11:29 G 44261300.91 44261300.98 44261301.05 0.0088 0.0076

Saturn 116471-04-28 16:46 G 44261337.10 44261337.20 44261337.31 0.0274 0.0220

Neptune 116471-06-19 12:41 G 44261388.96 44261389.03 44261389.13 0.0088 0.0069

Neptune 116471-09-15 14:22 G 44261477.01 44261477.10 44261477.21 0.0088 0.0062

Neptune 116471-12-12 15:48 G 44261565.06 44261565.16 44261565.28 0.0088 0.0055

Mars 116471-12-16 14:22 G 44261568.99 44261569.10 44261569.21 0.1883 0.0684

Neptune 116472-03-09 17:29 G 44261653.12 44261653.23 44261653.35 0.0088 0.0048

Neptune 116472-06-05 18:56 G 44261741.18 44261741.29 44261741.43 0.0088 0.0042

Neptune 116472-09-01 20:36 G 44261829.24 44261829.36 44261829.50 0.0088 0.0034

Neptune 116472-11-28 22:17 G 44261917.30 44261917.43 44261917.56 0.0088 0.0027

Mars 116473-01-11 02:22 G 44261960.51 44261960.60 44261960.70 0.1670 0.1383

Neptune 116473-02-24 23:44 G 44262005.36 44262005.49 44262005.63 0.0088 0.0021

Neptune 116473-05-24 01:10 G 44262093.42 44262093.55 44262093.70 0.0088 0.0014

Neptune 116473-08-20 02:51 G 44262181.48 44262181.62 44262181.76 0.0088 0.0007

Neptune 116473-11-16 04:17 G 44262269.55 44262269.68 44262269.82 0.0088 0.0003

Neptune 116474-02-12 05:58 G 44262357.61 44262357.75 44262357.89 0.0088 0.0007

Neptune 116474-05-11 07:24 G 44262445.67 44262445.81 44262445.95 0.0088 0.0013

Neptune 116474-08-07 08:51 G 44262533.74 44262533.87 44262534.01 0.0088 0.0020

Neptune 116474-11-03 10:17 G 44262621.80 44262621.93 44262622.07 0.0088 0.0027

Neptune 116475-01-30 11:44 G 44262709.87 44262709.99 44262710.13 0.0088 0.0034

Neptune 116475-04-28 13:24 G 44262797.94 44262798.06 44262798.18 0.0088 0.0040

Neptune 116475-07-25 14:36 G 44262886.00 44262886.11 44262886.24 0.0088 0.0047

Neptune 116475-10-21 16:17 G 44262974.07 44262974.18 44262974.29 0.0088 0.0054

Jupiter 116476-01-16 20:36 G 44263061.23 44263061.36 44263061.49 0.0532 0.0147

Neptune 116476-01-17 17:44 G 44263062.14 44263062.24 44263062.34 0.0088 0.0060

Neptune 116476-04-14 18:56 G 44263150.22 44263150.29 44263150.39 0.0088 0.0067

Neptune 116476-07-11 20:36 G 44263238.29 44263238.36 44263238.44 0.0088 0.0073

Neptune 116476-10-07 21:48 G 44263326.37 44263326.41 44263326.48 0.0088 0.0080

Neptune 116477-01-03 23:29 G 44263414.46 44263414.48 44263414.51 0.0088 0.0086

Venus 116480-02-19 03:05 G 44264555.58 44264555.63 44264555.67 0.3711 0.3320

Mars 116481-05-07 22:46 G 44264999.42 44264999.45 44264999.47 0.1891 0.1827

Jupiter 116482-02-27 10:03 G 44265294.77 44265294.92 44265295.06 0.0494 0.0272

Jupiter 116482-05-28 11:15 G 44265384.91 44265384.97 44265385.03 0.0497 0.0464

Mars 116482-06-03 03:20 G 44265390.48 44265390.64 44265390.81 0.1663 0.0113

Venus 116485-09-03 20:08 G 44266579.25 44266579.34 44266579.44 0.3708 0.1508

Saturn 116485-11-30 02:22 G 44266666.50 44266666.60 44266666.71 0.0284 0.0186

Saturn 116486-02-26 15:20 G 44266755.00 44266755.14 44266755.28 0.0285 0.0022

Saturn 116486-05-26 04:03 G 44266843.55 44266843.67 44266843.79 0.0285 0.0140

Moon 116486-08-22 07:53 G 44266931.74 44266931.83 44266931.91 0.2666 0.1704

Earth 116486-08-22 08:36 G 44266931.77 44266931.86 44266931.95 0.2667 0.1571 *

Jupiter 116487-11-04 23:29 G 44267371.35 44267371.48 44267371.62 0.0533 0.0030

Venus 116491-03-20 13:10 G 44268602.95 44268603.05 44268603.16 0.3704 0.0295

Mars 116491-10-24 04:32 G 44268820.57 44268820.69 44268820.81 0.1657 0.1127

Mars 116492-09-02 21:48 G 44269135.36 44269135.41 44269135.46 0.1867 0.1658

Jupiter 116493-12-16 08:36 G 44269604.81 44269604.86 44269604.92 0.0493 0.0461

Jupiter 116494-03-16 09:05 G 44269694.74 44269694.88 44269695.03 0.0496 0.0260

Uranus 116496-04-08 05:44 G 44270448.70 44270448.74 44270448.81 0.0139 0.0126

Uranus 116496-07-05 09:48 G 44270536.83 44270536.91 44270537.01 0.0139 0.0106

Uranus 116496-10-01 13:39 G 44270624.97 44270625.07 44270625.19 0.0139 0.0086

Venus 116496-10-03 05:58 G 44270626.67 44270626.75 44270626.84 0.3701 0.1982

Uranus 116496-12-28 17:44 G 44270713.12 44270713.24 44270713.37 0.0139 0.0066

Uranus 116497-03-26 21:48 G 44270801.28 44270801.41 44270801.54 0.0139 0.0045

Uranus 116497-06-23 01:39 G 44270889.43 44270889.57 44270889.71 0.0139 0.0026

Uranus 116497-09-19 05:29 G 44270977.59 44270977.73 44270977.87 0.0139 0.0006

Uranus 116497-12-16 09:20 G 44271065.75 44271065.89 44271066.03 0.0139 0.0014

Uranus 116498-03-14 13:10 G 44271153.91 44271154.05 44271154.19 0.0139 0.0033

Uranus 116498-06-10 17:00 G 44271242.08 44271242.21 44271242.34 0.0139 0.0053

Uranus 116498-09-06 20:51 G 44271330.25 44271330.37 44271330.48 0.0139 0.0073

Uranus 116498-12-04 00:12 G 44271418.42 44271418.51 44271418.63 0.0139 0.0093

Uranus 116499-03-02 04:03 G 44271506.60 44271506.67 44271506.76 0.0139 0.0111

Uranus 116499-05-29 07:53 G 44271594.79 44271594.83 44271594.88 0.0139 0.0130

Jupiter 116499-08-24 02:51 G 44271681.50 44271681.62 44271681.75 0.0534 0.0197

Moon   116499-08-25 02:36 G 44271682.50 44271682.61 44271682.72 0.2672 0.0167

Earth   116499-08-25 02:51 G 44271682.51 44271682.62 44271682.74 0.2665 0.0234 *

Jupiter 116499-11-21 12:41 G 44271770.99 44271771.03 44271771.08 0.0531 0.0492

Saturn 116500-03-22 03:48 G 44271891.54 44271891.66 44271891.79 0.0275 0.0187

Saturn 116500-06-18 23:00 G 44271980.28 44271980.46 44271980.63 0.0275 0.0003

Saturn 116500-09-15 18:12 G 44272069.14 44272069.26 44272069.40 0.0274 0.0184

Mars   116502-01-25 06:12 G 44272565.65 44272565.76 44272565.87 0.1875 0.0570

Moon   116502-02-25 22:46 G 44272597.36 44272597.45 44272597.55 0.2673 0.2059

Earth   116502-02-25 23:15 G 44272597.38 44272597.47 44272597.56 0.2666 0.2072 *

Venus   116502-04-19 22:46 G 44272650.43 44272650.45 44272650.46 0.3697 0.3635

Venus   116503-11-03 03:34 G 44273212.51 44273212.65 44273212.79 0.3670 0.0311

Jupiter 116506-01-03 08:22 G 44274004.68 44274004.85 44274005.02 0.0495 0.0077

Venus   116509-05-19 07:39 G 44275236.79 44275236.82 44275236.86 0.3675 0.3518

Jupiter 116511-06-13 05:58 G 44275991.66 44275991.75 44275991.85 0.0535 0.0370

Mars   116511-06-17 14:22 G 44275995.99 44275996.10 44275996.22 0.1883 0.0554

Jupiter 116511-09-10 16:17 G 44276081.08 44276081.18 44276081.29 0.0531 0.0328

Mars   116512-07-13 03:05 G 44276387.58 44276387.63 44276387.69 0.1670 0.1564

Earth   116512-08-27 21:20 G 44276433.31 44276433.39 44276433.46 0.2663 0.1954

Moon   116512-08-27 21:48 G 44276433.34 44276433.41 44276433.48 0.2667 0.2064 *

Earth   116515-03-01 03:20 G 44277348.50 44277348.64 44277348.78 0.2668 0.1058

Moon   116515-03-01 04:32 G 44277348.56 44277348.69 44277348.82 0.2672 0.1171 *

Saturn 116515-04-20 03:34 G 44277398.58 44277398.65 44277398.72 0.0284 0.0241

Saturn 116515-07-17 16:32 G 44277487.05 44277487.19 44277487.32 0.0284 0.0077

Saturn 116515-10-14 05:15 G 44277575.59 44277575.72 44277575.85 0.0285 0.0085

Saturn 116516-01-10 17:58 G 44277664.18 44277664.25 44277664.32 0.0285 0.0245

Jupiter 116517-10-22 07:53 G 44278314.66 44278314.83 44278315.00 0.0495 0.0103

Mars 116520-11-06 22:46 G 44279426.40 44279426.45 44279426.50 0.1891 0.1698

Mars 116521-12-03 04:03 G 44279817.51 44279817.67 44279817.83 0.1664 0.0282

Jupiter 116523-06-29 19:39 G 44280391.19 44280391.32 44280391.44 0.0532 0.0158

Saturn 116529-08-09 03:20 G 44282623.56 44282623.64 44282623.72 0.0275 0.0242

Jupiter 116529-08-10 07:53 G 44282624.69 44282624.83 44282624.97 0.0494 0.0276

Saturn 116529-11-05 22:17 G 44282712.27 44282712.43 44282712.61 0.0275 0.0060

Jupiter 116529-11-08 09:05 G 44282714.82 44282714.88 44282714.94 0.0497 0.0460

Saturn 116530-02-02 17:44 G 44282801.09 44282801.24 44282801.40 0.0274 0.0127

Mars 116531-04-25 05:15 G 44283247.59 44283247.72 44283247.86 0.1657 0.0945

Mars 116532-03-04 21:34 G 44283562.37 44283562.40 44283562.44 0.1867 0.1773

Earth 116532-08-23 13:24 G 44283733.96 44283734.06 44283734.16 0.2667 0.1190

Moon 116532-08-23 13:39 G 44283733.97 44283734.07 44283734.17 0.2674 0.1230 *

Jupiter 116535-04-17 21:48 G 44284701.28 44284701.41 44284701.55 0.0533 0.0032

Venus 116536-09-26 00:56 G 44285228.47 44285228.54 44285228.61 0.3711 0.2724

Uranus 116537-01-25 16:17 G 44285350.17 44285350.18 44285350.22 0.0139 0.0138

Uranus 116537-04-23 22:32 G 44285438.36 44285438.44 44285438.56 0.0139 0.0114

Uranus 116537-07-21 05:15 G 44285526.59 44285526.72 44285526.86 0.0139 0.0089

Uranus 116537-10-17 11:29 G 44285614.83 44285614.98 44285615.14 0.0139 0.0064

Uranus 116538-01-13 18:12 G 44285703.09 44285703.26 44285703.43 0.0139 0.0039

Uranus 116538-04-12 00:41 G 44285791.35 44285791.53 44285791.71 0.0139 0.0014

Uranus 116538-07-09 07:10 G 44285879.62 44285879.80 44285879.98 0.0139 0.0011

Uranus 116538-10-05 13:39 G 44285967.90 44285968.07 44285968.25 0.0139 0.0036

Uranus 116539-01-01 20:08 G 44286056.19 44286056.34 44286056.51 0.0139 0.0061

Uranus 116539-03-31 03:05 G 44286144.49 44286144.63 44286144.77 0.0139 0.0086

Uranus 116539-06-27 09:20 G 44286232.80 44286232.89 44286233.01 0.0139 0.0112

Uranus 116539-09-23 16:17 G 44286321.16 44286321.18 44286321.21 0.0139 0.0137

Jupiter 116541-05-29 07:24 G 44286934.74 44286934.81 44286934.87 0.0494 0.0452

Mars 116541-07-26 06:12 G 44286992.65 44286992.76 44286992.87 0.1875 0.0698

Jupiter 116541-08-27 07:53 G 44287024.69 44287024.83 44287024.98 0.0496 0.0271

Venus 116542-04-11 18:12 G 44287252.15 44287252.26 44287252.36 0.3707 0.0933

Saturn 116544-09-06 06:41 G 44288130.75 44288130.78 44288130.83 0.0284 0.0270

Saturn 116544-12-03 19:53 G 44288219.20 44288219.33 44288219.46 0.0285 0.0106

Saturn 116545-03-02 08:51 G 44288307.73 44288307.87 44288308.00 0.0285 0.0058

Saturn 116545-05-29 21:34 G 44288396.31 44288396.40 44288396.48 0.0285 0.0219

Earth 116545-08-26 07:53 G 44288484.72 44288484.83 44288484.94 0.2665 0.0583

Moon 116545-08-26 08:36 G 44288484.75 44288484.86 44288484.97 0.2666 0.0769 *

Jupiter 116547-02-04 00:41 G 44289011.41 44289011.53 44289011.66 0.0534 0.0210

Jupiter 116547-05-04 10:32 G 44289100.89 44289100.94 44289101.00 0.0531 0.0478

Venus 116547-10-26 11:00 G 44289275.86 44289275.96 44289276.07 0.3703 0.0831

Earth 116548-02-27 05:15 G 44289399.60 44289399.72 44289399.85 0.2666 0.1465

Moon 116548-02-27 06:41 G 44289399.65 44289399.78 44289399.92 0.2668 0.1157 *

Mars 116550-12-16 14:36 G 44290423.00 44290423.11 44290423.22 0.1883 0.0408

Venus 116553-05-11 03:48 G 44291299.58 44291299.66 44291299.74 0.3700 0.2515

Jupiter 116553-06-15 06:12 G 44291334.59 44291334.76 44291334.93 0.0495 0.0071

Neptune 116554-11-23 22:03 G 44291861.39 44291861.42 44291861.48 0.0089 0.0086

Venus 116554-11-24 00:41 G 44291861.44 44291861.53 44291861.62 0.3667 0.2791 *

Neptune 116555-02-20 01:10 G 44291949.47 44291949.55 44291949.65 0.0089 0.0077

Neptune 116555-05-19 04:17 G 44292037.57 44292037.68 44292037.80 0.0089 0.0068

Neptune 116555-08-15 07:24 G 44292125.68 44292125.81 44292125.94 0.0089 0.0060

Neptune 116555-11-11 10:32 G 44292213.79 44292213.94 44292214.09 0.0089 0.0051

Neptune 116556-02-07 13:10 G 44292301.91 44292302.05 44292302.22 0.0089 0.0042

Neptune 116556-05-05 16:17 G 44292390.02 44292390.18 44292390.36 0.0089 0.0033

Neptune 116556-08-01 19:39 G 44292478.15 44292478.32 44292478.49 0.0089 0.0024

Neptune 116556-10-28 22:46 G 44292566.27 44292566.45 44292566.63 0.0089 0.0015

Neptune 116557-01-25 01:53 G 44292654.40 44292654.58 44292654.76 0.0089 0.0006

Neptune 116557-04-23 05:00 G 44292742.53 44292742.71 44292742.89 0.0089 0.0004

Neptune 116557-07-20 07:53 G 44292830.66 44292830.83 44292831.02 0.0089 0.0013

Neptune 116557-10-16 11:00 G 44292918.79   44292918.96   44292919.14 0.0089 0.0022

Neptune 116558-01-12 14:08 G 44293006.93   44293007.09   44293007.27 0.0089 0.0031

Neptune 116558-04-10 17:15 G 44293095.07   44293095.22   44293095.39 0.0089 0.0041

Neptune 116558-07-07 20:36 G 44293183.21   44293183.36   44293183.51 0.0089 0.0050

Earth   116558-08-29 02:08 G 44293235.54   44293235.59   44293235.65 0.2663 0.2320

Moon   116558-08-29 02:36 G 44293235.56   44293235.61   44293235.66 0.2657 0.2322 *

Neptune 116558-10-03 23:29 G 44293271.36   44293271.48   44293271.63 0.0089 0.0059

Jupiter 116558-11-23 04:03 G 44293321.57   44293321.67   44293321.76 0.0535 0.0383

Saturn   116558-12-27 05:29 G 44293355.71   44293355.73   44293355.75 0.0275 0.0272

Neptune 116558-12-31 02:36 G 44293359.51   44293359.61   44293359.75 0.0089 0.0069

Jupiter 116559-02-20 14:22 G 44293410.99   44293411.10   44293411.20 0.0532 0.0318

Saturn   116559-03-26 00:27 G 44293444.36   44293444.52   44293444.69 0.0275 0.0090

Neptune 116559-03-29 05:58 G 44293447.67   44293447.75   44293447.85 0.0089 0.0078

Saturn   116559-06-22 19:39 G 44293533.16   44293533.32   44293533.49 0.0274 0.0095

Neptune 116559-06-25 08:51 G 44293535.86   44293535.87   44293535.94 0.0089 0.0088

Mars   116560-05-07 22:32 G 44293853.38   44293853.44   44293853.51 0.1891 0.1574

Venus   116560-06-09 04:17 G 44293885.54   44293885.68   44293885.82 0.3671 0.0848

Earth   116561-03-01 09:34 G 44294150.78   44294150.90   44294151.01 0.2669 0.1686

Moon   116561-03-01 10:17 G 44294150.81   44294150.93   44294151.04 0.2662 0.1707 *

Mars   116561-06-03 04:32 G 44294244.54   44294244.69   44294244.85 0.1664 0.0459

Jupiter 116565-04-03 05:29 G 44295644.57   44295644.73   44295644.90 0.0495 0.0110

Earth   116565-08-21 23:44 G 44295785.48   44295785.49   44295785.51 0.2668 0.2622

Moon   116565-08-22 00:12 G 44295785.48   44295785.51   44295785.55 0.2673 0.2488 *

Mars   116570-10-24 05:58 G 44297674.61   44297674.75   44297674.89 0.1657 0.0774

Jupiter 116570-12-09 17:44 G 44297721.12   44297721.24   44297721.37 0.0532 0.0153

Saturn   116574-04-22 21:05 G 44298951.26   44298951.38   44298951.49 0.0284 0.0160

Saturn   116574-07-20 10:03 G 44299039.78   44299039.92   44299040.05 0.0285 0.0009

Saturn   116574-10-16 22:46 G 44299128.34   44299128.45   44299128.56 0.0285 0.0164

Jupiter 116577-01-20 05:15 G 44299954.58   44299954.72   44299954.86 0.0494 0.0286

Jupiter 116577-04-20 06:27 G 44300044.70   44300044.77   44300044.84 0.0497 0.0448

Earth 116578-08-24 18:27 G 44300536.16 44300536.27 44300536.37 0.2666 0.0820

Moon 116578-08-24 19:10 G 44300536.19 44300536.30 44300536.41 0.2665 0.0727 *

Uranus 116580-04-29 12:41 G 44301149.98 44301150.03 44301150.11 0.0139 0.0122

Uranus 116580-07-26 16:46 G 44301238.11 44301238.20 44301238.30 0.0139 0.0102

Uranus 116580-10-22 20:36 G 44301326.26 44301326.36 44301326.49 0.0139 0.0082

Uranus 116581-01-19 00:41 G 44301414.41 44301414.53 44301414.66 0.0139 0.0062

Mars 116581-01-24 06:12 G 44301419.66 44301419.76 44301419.87 0.1875 0.0830

Uranus 116581-04-17 04:32 G 44301502.56 44301502.69 44301502.83 0.0139 0.0042

Uranus 116581-07-14 08:36 G 44301590.72 44301590.86 44301591.00 0.0139 0.0022

Uranus 116581-10-10 12:27 G 44301678.88 44301679.02 44301679.16 0.0139 0.0002

Uranus 116582-01-06 16:17 G 44301767.04 44301767.18 44301767.32 0.0139 0.0018

Uranus 116582-04-04 20:08 G 44301855.21 44301855.34 44301855.48 0.0139 0.0038

Uranus 116582-07-01 23:58 G 44301943.37 44301943.50 44301943.63 0.0139 0.0057

Jupiter 116582-09-27 20:51 G 44302031.24 44302031.37 44302031.51 0.0533 0.0026

Uranus 116582-09-28 03:48 G 44302031.54 44302031.66 44302031.77 0.0139 0.0077

Uranus 116582-12-25 07:24 G 44302119.72 44302119.81 44302119.91 0.0139 0.0096

Uranus 116583-03-23 11:15 G 44302207.90 44302207.97 44302208.05 0.0139 0.0115

Uranus 116583-06-19 14:51 G 44302296.09 44302296.12 44302296.16 0.0139 0.0135

Saturn 116588-08-11 23:29 G 44304176.34 44304176.48 44304176.63 0.0275 0.0150

Jupiter 116588-11-08 05:15 G 44304264.66 44304264.72 44304264.78 0.0494 0.0455

Saturn 116588-11-08 18:41 G 44304265.11 44304265.28 44304265.45 0.0274 0.0034

Saturn 116589-02-05 13:53 G 44304353.99 44304354.08 44304354.19 0.0274 0.0221

Jupiter 116589-02-06 05:44 G 44304354.60 44304354.74 44304354.89 0.0496 0.0268

Pluto 116590-05-07 21:48 G 44304810.33 44304810.41 44304810.50 0.0059 0.0054

Mars 116590-06-16 14:22 G 44304849.99 44304850.10 44304850.22 0.1883 0.0301

Pluto 116590-08-03 23:15 G 44304898.34 44304898.47 44304898.60 0.0059 0.0045

Pluto 116590-10-30 23:58 G 44304986.37 44304986.50 44304986.69 0.0059 0.0037

Pluto 116591-01-27 01:39 G 44305074.41 44305074.57 44305074.76 0.0059 0.0027

Pluto 116591-04-25 03:05 G 44305162.46 44305162.63 44305162.83 0.0059 0.0018

Pluto 116591-07-22 04:46 G 44305250.51 44305250.70 44305250.90 0.0059 0.0009

Moon	116591-08-27 12:56	G	44305286.93	44305287.04	44305287.14	0.2657	0.0998	
Earth	116591-08-27 12:41	G	44305286.93	44305287.03	44305287.14	0.2665	0.0961	*
Pluto	116591-10-18 06:12	G	44305338.56	44305338.76	44305338.96	0.0060	0.0000	
Pluto	116592-01-14 07:24	G	44305426.62	44305426.81	44305427.01	0.0060	0.0009	
Pluto	116592-04-11 08:36	G	44305514.69	44305514.86	44305515.07	0.0060	0.0019	
Pluto	116592-07-08 10:03	G	44305602.76	44305602.92	44305603.11	0.0060	0.0028	
Pluto	116592-10-04 11:15	G	44305690.84	44305690.97	44305691.15	0.0060	0.0037	
Pluto	116592-12-31 12:41	G	44305778.93	44305779.03	44305779.18	0.0060	0.0046	
Pluto	116593-03-29 14:08	G	44305867.04	44305867.09	44305867.19	0.0060	0.0055	
Venus	116593-05-02 22:46	G	44305901.37	44305901.45	44305901.54	0.3710	0.2142	
Moon	116594-02-27 11:15	G	44306201.83	44306201.97	44306202.12	0.2660	0.0875	
Earth	116594-02-27 11:29	G	44306201.84	44306201.98	44306202.13	0.2667	0.0839	*
Jupiter	116594-07-16 23:15	G	44306341.34	44306341.47	44306341.59	0.0534	0.0211	
Jupiter	116594-10-14 09:05	G	44306430.82	44306430.88	44306430.94	0.0530	0.0476	
Venus	116598-11-16 16:03	G	44307925.06	44307925.17	44307925.27	0.3706	0.0365	
Mars	116599-11-06 22:46	G	44308280.38	44308280.45	44308280.53	0.1891	0.1427	
Jupiter	116600-11-26 05:00	G	44308664.54	44308664.71	44308664.88	0.0495	0.0082	
Mars	116600-12-03 05:15	G	44308671.57	44308671.72	44308671.87	0.1664	0.0635	
Saturn	116603-09-10 23:58	G	44309683.40	44309683.50	44309683.61	0.0284	0.0193	
Saturn	116603-12-08 13:10	G	44309771.91	44309772.05	44309772.19	0.0285	0.0030	
Saturn	116604-03-06 01:53	G	44309860.46	44309860.58	44309860.70	0.0285	0.0133	
Venus	116604-06-02 08:51	G	44309948.77	44309948.87	44309948.97	0.3702	0.1375	
Moon	116604-08-30 06:27	G	44310037.74	44310037.77	44310037.80	0.2661	0.2525	
Jupiter	116606-05-06 01:53	G	44310651.49	44310651.58	44310651.67	0.0535	0.0393	
Jupiter	116606-08-03 12:12	G	44310740.90	44310741.01	44310741.12	0.0532	0.0308	
Moon	116607-03-03 14:22	G	44310953.01	44310953.10	44310953.19	0.2667	0.2127	
Earth	116607-03-03 15:48	G	44310953.09	44310953.16	44310953.23	0.2669	0.2326	*
Venus	116609-12-17 01:39	G	44311972.51	44311972.57	44311972.62	0.3699	0.3060	
Mars	116610-04-25 06:27	G	44312101.62	44312101.77	44312101.92	0.1658	0.0613	
Venus	116611-07-02 01:10	G	44312534.43	44312534.55	44312534.68	0.3668	0.1685	

Earth 116611-08-24 04:46 G 44312587.64 44312587.70 44312587.76 0.2668 0.2236

Moon 116611-08-24 05:15 G 44312587.66 44312587.72 44312587.79 0.2663 0.2173 *

Jupiter 116612-09-14 03:20 G 44312974.47 44312974.64 44312974.81 0.0494 0.0115

Venus 116617-01-15 05:00 G 44314558.59 44314558.71 44314558.83 0.3672 0.2020

Saturn 116617-12-31 01:39 G 44314908.45 44314908.57 44314908.71 0.0275 0.0180

Saturn 116618-03-29 20:51 G 44314997.20 44314997.37 44314997.54 0.0275 0.0004

Jupiter 116618-05-22 15:48 G 44315051.03 44315051.16 44315051.29 0.0533 0.0142

Saturn 116618-06-26 16:03 G 44315086.05 44315086.17 44315086.30 0.0274 0.0191

Mars 116620-07-26 06:12 G 44315846.66 44315846.76 44315846.86 0.1875 0.0952

Uranus 116621-02-15 23:29 G 44316051.43 44316051.48 44316051.54 0.0139 0.0131

Uranus 116621-05-15 05:44 G 44316139.64 44316139.74 44316139.86 0.0139 0.0107

Uranus 116621-08-11 12:12 G 44316227.88 44316228.01 44316228.16 0.0139 0.0083

Uranus 116621-11-07 18:41 G 44316316.12 44316316.28 44316316.44 0.0139 0.0058

Uranus 116622-02-04 01:10 G 44316404.38 44316404.55 44316404.72 0.0139 0.0033

Uranus 116622-05-03 07:39 G 44316492.65 44316492.82 44316493.00 0.0139 0.0009

Uranus 116622-07-30 14:08 G 44316580.92 44316581.09 44316581.27 0.0139 0.0017

Uranus 116622-10-26 20:36 G 44316669.20 44316669.36 44316669.54 0.0139 0.0042

Uranus 116623-01-23 03:20 G 44316757.49 44316757.64 44316757.80 0.0139 0.0067

Uranus 116623-04-21 10:03 G 44316845.79 44316845.92 44316846.05 0.0139 0.0092

Uranus 116623-07-18 16:32 G 44316934.11 44316934.19 44316934.29 0.0139 0.0118

Jupiter 116624-07-03 02:51 G 44317284.49 44317284.62 44317284.76 0.0494 0.0291

Moon 116624-08-25 22:46 G 44317338.34 44317338.45 44317338.57 0.2661 0.0486

Earth 116624-08-25 23:15 G 44317338.36 44317338.47 44317338.58 0.2666 0.0438 *

Jupiter 116624-10-01 03:48 G 44317374.59 44317374.66 44317374.75 0.0497 0.0442

Mars 116629-12-16 14:36 G 44319276.99 44319277.11 44319277.22 0.1883 0.0157

Jupiter 116630-03-10 19:10 G 44319361.17 44319361.30 44319361.44 0.0533 0.0025

Saturn 116633-01-28 01:10 G 44320415.49 44320415.55 44320415.62 0.0284 0.0248

Saturn 116633-04-26 14:08 G 44320503.96 44320504.09 44320504.23 0.0284 0.0084

Saturn 116633-07-24 03:05 G 44320592.50 44320592.63 44320592.76 0.0285 0.0078

Saturn 116633-10-20 15:34 G 44320681.09 44320681.15 44320681.23 0.0285 0.0239

Neptune 116635-06-27 07:53 G 44321295.80 44321295.83 44321295.87 0.0088 0.0086

Neptune 116635-09-23 09:34 G 44321383.84 44321383.90 44321383.96 0.0088 0.0079

Neptune 116635-12-20 11:15 G 44321471.89 44321471.97 44321472.05 0.0088 0.0072

Neptune 116636-03-17 12:41 G 44321559.94 44321560.03 44321560.13 0.0088 0.0065

Jupiter 116636-04-21 02:51 G 44321594.56 44321594.62 44321594.67 0.0493 0.0464

Neptune 116636-06-13 14:08 G 44321647.99 44321648.09 44321648.20 0.0088 0.0058

Jupiter 116636-07-20 03:05 G 44321684.49 44321684.63 44321684.78 0.0496 0.0257

Neptune 116636-09-09 15:34 G 44321736.05 44321736.15 44321736.28 0.0088 0.0051

Neptune 116636-12-06 17:15 G 44321824.11 44321824.22 44321824.35 0.0088 0.0044

Neptune 116637-03-04 18:56 G 44321912.17 44321912.29 44321912.42 0.0088 0.0037

Neptune 116637-05-31 20:22 G 44322000.23 44322000.35 44322000.49 0.0088 0.0031

Neptune 116637-08-27 22:03 G 44322088.29 44322088.42 44322088.56 0.0088 0.0023

Moon 116637-08-28 17:00 G 44322089.11 44322089.21 44322089.31 0.2665 0.1167

Earth 116637-08-28 17:44 G 44322089.14 44322089.24 44322089.34 0.2664 0.1327 *

Neptune 116637-11-23 23:29 G 44322176.35 44322176.48 44322176.62 0.0088 0.0017

Neptune 116638-02-20 01:10 G 44322264.41 44322264.55 44322264.69 0.0088 0.0010

Neptune 116638-05-19 02:36 G 44322352.47 44322352.61 44322352.75 0.0088 0.0004

Neptune 116638-08-15 04:17 G 44322440.54 44322440.68 44322440.82 0.0088 0.0004

Neptune 116638-11-11 05:44 G 44322528.60 44322528.74 44322528.88 0.0088 0.0011

Neptune 116639-02-07 07:10 G 44322616.67 44322616.80 44322616.94 0.0088 0.0017

Neptune 116639-05-06 08:36 G 44322704.73 44322704.86 44322705.00 0.0088 0.0024

Mars 116639-05-08 22:46 G 44322707.36 44322707.45 44322707.53 0.1890 0.1311

Neptune 116639-08-02 10:03 G 44322792.80 44322792.92 44322793.06 0.0088 0.0031

Neptune 116639-10-29 11:44 G 44322880.86 44322880.99 44322881.11 0.0088 0.0037

Neptune 116640-01-25 12:56 G 44322968.93 44322969.04 44322969.17 0.0088 0.0045

Moon 116640-02-29 16:17 G 44323004.04 44323004.18 44323004.33 0.2668 0.0545

Earth 116640-02-29 17:44 G 44323004.09 44323004.24 44323004.39 0.2667 0.0221 *

Neptune 116640-04-22 14:22 G 44323057.00 44323057.10 44323057.22 0.0088 0.0051

Mars 116640-06-03 05:58 G 44323098.61 44323098.75 44323098.89 0.1664 0.0811

Neptune 116640-07-19 16:03 G 44323145.07 44323145.17 44323145.28 0.0088 0.0057

Neptune 116640-10-15 17:29 G 44323233.14   44323233.23   44323233.33 0.0088 0.0064

Neptune 116641-01-11 18:41 G 44323321.21   44323321.28   44323321.38 0.0088 0.0071

Neptune 116641-04-09 20:22 G 44323409.29   44323409.35   44323409.42 0.0088 0.0077

Neptune 116641-07-06 21:34 G 44323497.38   44323497.40   44323497.46 0.0088 0.0084

Jupiter 116641-12-27 22:17 G 44323671.30   44323671.43   44323671.55 0.0534 0.0199

Jupiter 116642-03-27 08:08 G 44323760.79   44323760.84   44323760.89 0.0531 0.0489

Venus   116644-05-25 03:34 G 44324550.61   44324550.65   44324550.69 0.3712 0.3385

Saturn   116647-05-20 00:27 G 44325640.44   44325640.52   44325640.60 0.0275 0.0243

Saturn   116647-08-16 19:24 G 44325729.14   44325729.31   44325729.48 0.0275 0.0060

Saturn   116647-11-13 14:36 G 44325817.96   44325818.11   44325818.27 0.0274 0.0125

Jupiter 116648-05-08 02:51 G 44325994.45   44325994.62   44325994.79 0.0496 0.0080

Mars   116649-10-24 07:10 G 44326528.65   44326528.80   44326528.96 0.1658 0.0429

Venus   116649-12-08 20:36 G 44326574.27   44326574.36   44326574.46 0.3709 0.1562

Jupiter 116653-10-16 00:27 G 44327981.43   44327981.52   44327981.61 0.0534 0.0390

Jupiter 116654-01-13 10:46 G 44328070.85   44328070.95   44328071.06 0.0531 0.0310

Venus   116655-06-24 13:39 G 44328597.97   44328598.07   44328598.18 0.3705 0.0242

Moon   116657-08-24 09:05 G 44329389.81   44329389.88   44329389.95 0.2665 0.2033

Earth   116657-08-24 09:48 G 44329389.83   44329389.91   44329389.99 0.2668 0.1852 *

Mars   116659-03-16 08:36 G 44329958.85   44329958.86   44329958.88 0.1651 0.1635

Mars   116660-01-25 06:12 G 44330273.67   44330273.76   44330273.86 0.1875 0.1089

Jupiter 116660-02-25 02:08 G 44330304.43   44330304.59   44330304.76 0.0495 0.0103

Venus   116661-01-07 06:41 G 44330621.69   44330621.78   44330621.87 0.3702 0.1930

Saturn   116662-09-13 16:46 G 44331236.08   44331236.20   44331236.33 0.0285 0.0122

Saturn   116662-12-11 05:44 G 44331324.61   44331324.74   44331324.88 0.0285 0.0043

Saturn   116663-03-09 18:27 G 44331413.18   44331413.27   44331413.37 0.0285 0.0204

Uranus   116664-02-22 16:03 G 44331763.15   44331763.17   44331763.19 0.0138 0.0137

Uranus   116664-05-20 19:53 G 44331851.26   44331851.33   44331851.41 0.0139 0.0117

Uranus   116664-08-16 23:58 G 44331939.40   44331939.50   44331939.60 0.0139 0.0097

Uranus   116664-11-13 03:48 G 44332027.55   44332027.66   44332027.78 0.0139 0.0077

Uranus   116665-02-09 07:53 G 44332115.70   44332115.83   44332115.96 0.0139 0.0057

Uranus 116665-05-08 11:44 G 44332203.85 44332203.99 44332204.13 0.0139 0.0037

Uranus 116665-08-04 15:34 G 44332292.01 44332292.15 44332292.29 0.0139 0.0017

Uranus 116665-10-31 19:24 G 44332380.17 44332380.31 44332380.46 0.0139 0.0005

Jupiter 116665-11-01 13:53 G 44332380.95 44332381.08 44332381.21 0.0532 0.0137

Uranus 116666-01-27 23:15 G 44332468.34 44332468.47 44332468.61 0.0139 0.0023

Uranus 116666-04-26 03:05 G 44332556.50 44332556.63 44332556.77 0.0139 0.0042

Uranus 116666-07-23 06:56 G 44332644.67 44332644.79 44332644.92 0.0139 0.0062

Venus 116666-07-23 23:15 G 44332645.45 44332645.47 44332645.49 0.3698 0.3590

Uranus 116666-10-19 10:46 G 44332732.84 44332732.95 44332733.06 0.0139 0.0081

Uranus 116667-01-15 14:36 G 44332821.02 44332821.11 44332821.20 0.0139 0.0100

Uranus 116667-04-13 18:27 G 44332909.20 44332909.27 44332909.34 0.0139 0.0120

Uranus 116667-07-10 22:03 G 44332997.42 44332997.42 44332997.43 0.0139 0.0139

Venus 116668-02-06 01:53 G 44333207.44 44333207.58 44333207.72 0.3669 0.0561

Mars 116669-06-16 14:36 G 44333703.99 44333704.11 44333704.23 0.1882 0.0024

Moon 116670-08-27 03:34 G 44334140.54 44334140.65 44334140.76 0.2669 0.0106

Earth 116670-08-27 04:17 G 44334140.56 44334140.68 44334140.79 0.2666 0.0087 *

Jupiter 116671-12-14 00:56 G 44334614.41 44334614.54 44334614.68 0.0494 0.0293

Jupiter 116672-03-13 01:53 G 44334704.50 44334704.58 44334704.66 0.0496 0.0438

Venus 116673-08-22 05:58 G 44335231.68 44335231.75 44335231.82 0.3674 0.3218

Saturn 116676-10-06 02:22 G 44336372.59 44336372.60 44336372.63 0.0275 0.0274

Saturn 116677-01-02 21:34 G 44336461.23 44336461.40 44336461.56 0.0275 0.0091

Saturn 116677-04-01 16:46 G 44336550.03 44336550.20 44336550.36 0.0275 0.0094

Jupiter 116677-08-20 17:15 G 44336691.09 44336691.22 44336691.35 0.0534 0.0033

Mars 116678-11-06 22:46 G 44337134.36 44337134.45 44337134.54 0.1890 0.1174

Mars 116679-12-03 06:41 G 44337525.64 44337525.78 44337525.91 0.1665 0.0986

Earth 116683-08-29 22:32 G 44338891.36 44338891.44 44338891.53 0.2664 0.1699

Moon 116683-08-29 23:00 G 44338891.37 44338891.46 44338891.54 0.2671 0.1685 *

Jupiter 116683-10-02 00:41 G 44338924.48 44338924.53 44338924.59 0.0493 0.0465

Jupiter 116683-12-31 01:10 G 44339014.40 44339014.55 44339014.70 0.0496 0.0253

Earth 116686-03-01 23:58 G 44339806.35 44339806.50 44339806.65 0.2667 0.0407

Moon 116686-03-02 00:41 G 44339806.39 44339806.53 44339806.68 0.2673 0.0471 *

Pluto 116686-10-23 21:05 G 44340042.33 44340042.38 44340042.44 0.0085 0.0077

Pluto 116687-01-19 22:17 G 44340130.34 44340130.43 44340130.53 0.0085 0.0059

Pluto 116687-04-17 23:29 G 44340218.37 44340218.48 44340218.60 0.0085 0.0041

Pluto 116687-07-15 00:41 G 44340306.41 44340306.53 44340306.66 0.0085 0.0024

Pluto 116687-10-11 02:08 G 44340394.46 44340394.59 44340394.72 0.0085 0.0006

Pluto 116688-01-07 03:20 G 44340482.51 44340482.64 44340482.77 0.0085 0.0012

Pluto 116688-04-04 04:32 G 44340570.56 44340570.69 44340570.81 0.0084 0.0029

Pluto 116688-07-01 05:29 G 44340658.63 44340658.73 44340658.85 0.0084 0.0047

Pluto 116688-09-27 06:41 G 44340746.70 44340746.78 44340746.87 0.0084 0.0064

Pluto 116688-12-24 07:53 G 44340834.80 44340834.83 44340834.87 0.0084 0.0081

Mars 116689-04-24 07:53 G 44340955.67 44340955.83 44340955.99 0.1658 0.0253

Jupiter 116689-06-08 20:36 G 44341001.24 44341001.36 44341001.49 0.0534 0.0202

Jupiter 116689-09-06 06:41 G 44341090.73 44341090.78 44341090.83 0.0531 0.0488

Saturn 116692-01-31 17:58 G 44341968.15 44341968.25 44341968.37 0.0284 0.0175

Saturn 116692-04-29 07:10 G 44342056.66 44342056.80 44342056.93 0.0284 0.0015

Saturn 116692-07-26 19:53 G 44342145.21 44342145.33 44342145.44 0.0285 0.0150

Jupiter 116695-10-19 00:27 G 44343324.35 44343324.52 44343324.69 0.0495 0.0073

Mars 116698-09-14 09:20 G 44344385.82 44344385.89 44344385.96 0.1652 0.1465

Mars 116699-07-26 06:12 G 44344700.67 44344700.76 44344700.85 0.1874 0.1212

Venus 116700-12-31 01:24 G 44345223.49 44345223.56 44345223.63 0.3711 0.2788

Jupiter 116701-03-28 23:44 G 44345311.39 44345311.49 44345311.58 0.0535 0.0377

Jupiter 116701-06-26 10:03 G 44345400.82 44345400.92 44345401.03 0.0532 0.0323

Moon 116703-08-26 14:22 G 44346192.01 44346192.10 44346192.19 0.2674 0.1538

Earth 116703-08-26 14:36 G 44346192.02 44346192.11 44346192.21 0.2667 0.1470 *

Uranus 116705-03-09 06:27 G 44346752.70 44346752.77 44346752.85 0.0139 0.0126

Uranus 116705-06-05 12:41 G 44346840.92 44346841.03 44346841.16 0.0139 0.0102

Uranus 116705-09-01 19:10 G 44346929.16 44346929.30 44346929.45 0.0139 0.0077

Uranus 116705-11-29 01:39 G 44347017.41 44347017.57 44347017.74 0.0139 0.0052

Uranus 116706-02-25 08:08 G 44347105.67 44347105.84 44347106.02 0.0139 0.0028

Saturn 116706-05-23 19:39 G 44347193.18 44347193.32 44347193.46 0.0275 0.0159

Uranus 116706-05-24 14:36 G 44347193.94 44347194.11 44347194.29 0.0139 0.0003

Venus 116706-07-16 18:41 G 44347247.17 44347247.28 44347247.38 0.3708 0.0989

Saturn 116706-08-20 14:51 G 44347281.95 44347282.12 44347282.29 0.0275 0.0025

Uranus 116706-08-20 21:05 G 44347282.21 44347282.38 44347282.56 0.0139 0.0023 *

Uranus 116706-11-17 03:34 G 44347370.49 44347370.65 44347370.83 0.0139 0.0048

Saturn 116706-11-17 10:17 G 44347370.82 44347370.93 44347371.04 0.0274 0.0212 *

Uranus 116707-02-13 10:17 G 44347458.78 44347458.93 44347459.09 0.0139 0.0073

Uranus 116707-05-12 17:00 G 44347547.09 44347547.21 44347547.34 0.0139 0.0098

Jupiter 116707-08-08 00:27 G 44347634.35 44347634.52 44347634.68 0.0495 0.0102

Uranus 116707-08-08 23:29 G 44347635.41 44347635.48 44347635.57 0.0139 0.0124

Mars 116708-12-16 14:36 G 44348130.99 44348131.11 44348131.22 0.1882 0.0111

Venus 116712-01-30 11:29 G 44349270.88 44349270.98 44349271.09 0.3704 0.0778

Jupiter 116713-04-14 12:41 G 44349710.90 44349711.03 44349711.16 0.0532 0.0143

Earth 116716-08-28 09:05 G 44350942.77 44350942.88 44350943.00 0.2665 0.0322

Moon 116716-08-28 09:48 G 44350942.80 44350942.91 44350943.02 0.2669 0.0446 *

Venus 116717-08-15 04:17 G 44351294.61 44351294.68 44351294.76 0.3700 0.2479

Mars 116718-05-08 22:46 G 44351561.36 44351561.45 44351561.55 0.1890 0.1036

Venus 116719-02-27 23:15 G 44351856.39 44351856.47 44351856.55 0.3666 0.2989

Earth 116719-03-01 02:08 G 44351857.50 44351857.59 44351857.69 0.2665 0.2075

Moon 116719-03-01 03:34 G 44351857.55 44351857.65 44351857.75 0.2668 0.1914 *

Jupiter 116719-05-26 23:58 G 44351944.36 44351944.50 44351944.64 0.0494 0.0279

Mars 116719-06-04 07:24 G 44351952.69 44351952.81 44351952.92 0.1665 0.1171

Neptune 116719-08-22 21:05 G 44352032.32 44352032.38 44352032.47 0.0089 0.0081

Jupiter 116719-08-25 00:56 G 44352034.48 44352034.54 44352034.61 0.0497 0.0455

Neptune 116719-11-19 00:12 G 44352120.42 44352120.51 44352120.62 0.0089 0.0072

Neptune 116720-02-15 03:20 G 44352208.52 44352208.64 44352208.77 0.0089 0.0063

Neptune 116720-05-13 06:27 G 44352296.63 44352296.77 44352296.91 0.0089 0.0055

Neptune 116720-08-09 09:34 G 44352384.74 44352384.90 44352385.05 0.0089 0.0046

Neptune 116720-11-05 12:12 G 44352472.86 44352473.01 44352473.19 0.0089 0.0037

Neptune 116721-02-01 15:20 G 44352560.98   44352561.14   44352561.32 0.0089 0.0028

Neptune 116721-04-30 18:41 G 44352649.10   44352649.28   44352649.46 0.0089 0.0019

Saturn   116721-06-20 20:08 G 44352700.26   44352700.34   44352700.43 0.0284 0.0218

Neptune 116721-07-27 21:34 G 44352737.23   44352737.40   44352737.59 0.0089 0.0010

Saturn   116721-09-17 09:20 G 44352788.75   44352788.89   44352789.02 0.0285 0.0055

Neptune 116721-10-24 00:56 G 44352825.35   44352825.54   44352825.72 0.0089 0.0002

Saturn   116721-12-14 22:03 G 44352877.29   44352877.42   44352877.55 0.0285 0.0108

Neptune 116722-01-20 03:48 G 44352913.48   44352913.66   44352913.85 0.0089 0.0009

Saturn   116722-03-13 10:46 G 44352965.91   44352965.95   44352965.99 0.0285 0.0268

Neptune 116722-04-18 06:56 G 44353001.62   44353001.79   44353001.97 0.0089 0.0018

Neptune 116722-07-15 10:03 G 44353089.75   44353089.92   44353090.10 0.0089 0.0027

Neptune 116722-10-11 13:10 G 44353177.89   44353178.05   44353178.22 0.0089 0.0036

Neptune 116723-01-07 16:17 G 44353266.03   44353266.18   44353266.35 0.0089 0.0045

Neptune 116723-04-05 19:24 G 44353354.18   44353354.31   44353354.46 0.0089 0.0055

Neptune 116723-07-02 22:17 G 44353442.33   44353442.43   44353442.58 0.0089 0.0065

Neptune 116723-09-29 01:39 G 44353530.48   44353530.57   44353530.69 0.0089 0.0074

Neptune 116723-12-26 05:00 G 44353618.65   44353618.71   44353618.79 0.0089 0.0083

Venus   116724-09-13 02:51 G 44353880.47   44353880.62   44353880.76 0.3670 0.0609

Jupiter 116725-01-31 15:48 G 44354021.02   44354021.16   44354021.29 0.0533 0.0037

Mars   116728-10-24 08:22 G 44355382.69   44355382.85   44355383.01 0.1658 0.0093

Earth   116729-08-31 03:34 G 44355693.58   44355693.65   44355693.72 0.2664 0.2062

Moon   116729-08-31 04:17 G 44355693.61   44355693.68   44355693.74 0.2661 0.2169 *

Jupiter 116731-03-14 23:00 G 44356254.41   44356254.46   44356254.52 0.0493 0.0464

Jupiter 116731-06-12 23:15 G 44356344.32   44356344.47   44356344.62 0.0496 0.0254

Earth   116732-03-03 06:12 G 44356608.62   44356608.76   44356608.89 0.2668 0.1025

Moon   116732-03-03 07:24 G 44356608.68   44356608.81   44356608.94 0.2664 0.1296 *

Saturn   116735-10-10 21:34 G 44357925.29   44357925.40   44357925.53 0.0275 0.0191

Saturn   116736-01-07 16:46 G 44358014.03   44358014.20   44358014.38 0.0275 0.0007

Saturn   116736-04-05 11:58 G 44358102.88   44358103.00   44358103.14 0.0275 0.0180

Jupiter 116736-11-19 18:41 G 44358331.16   44358331.28   44358331.41 0.0535 0.0209

Jupiter 116737-02-17 04:46 G 44358420.65 44358420.70 44358420.76 0.0531 0.0483

Mars 116738-03-16 10:03 G 44358812.82 44358812.92 44358813.02 0.1652 0.1292

Mars 116739-01-25 06:12 G 44359127.68 44359127.76 44359127.84 0.1874 0.1341

Jupiter 116743-03-31 22:32 G 44360654.28 44360654.44 44360654.62 0.0495 0.0074

Uranus 116748-03-14 23:00 G 44362464.42 44362464.46 44362464.50 0.0138 0.0133

Uranus 116748-06-11 02:51 G 44362552.55 44362552.62 44362552.71 0.0139 0.0113

Mars 116748-06-16 14:36 G 44362557.99 44362558.11 44362558.23 0.1882 0.0235

Uranus 116748-09-07 06:56 G 44362640.69 44362640.79 44362640.90 0.0139 0.0093

Jupiter 116748-09-07 22:03 G 44362641.32 44362641.42 44362641.51 0.0535 0.0380

Uranus 116748-12-04 10:46 G 44362728.84 44362728.95 44362729.08 0.0139 0.0073

Jupiter 116748-12-06 08:22 G 44362730.75 44362730.85 44362730.96 0.0532 0.0323

Uranus 116749-03-02 14:51 G 44362816.99 44362817.12 44362817.25 0.0139 0.0053

Uranus 116749-05-29 18:41 G 44362905.15 44362905.28 44362905.42 0.0139 0.0033

Uranus 116749-08-25 22:32 G 44362993.31 44362993.44 44362993.59 0.0139 0.0014

Earth 116749-08-26 19:39 G 44362994.21 44362994.32 44362994.42 0.2667 0.1100

Moon 116749-08-26 20:22 G 44362994.24 44362994.35 44362994.45 0.2667 0.0919 *

Uranus 116749-11-22 02:36 G 44363081.47 44363081.61 44363081.75 0.0139 0.0008

Uranus 116750-02-18 06:27 G 44363169.63 44363169.77 44363169.91 0.0139 0.0027

Uranus 116750-05-17 10:17 G 44363257.80 44363257.93 44363258.06 0.0139 0.0046

Uranus 116750-08-13 13:53 G 44363345.96 44363346.08 44363346.21 0.0139 0.0066

Saturn 116750-11-07 21:20 G 44363432.36 44363432.39 44363432.44 0.0283 0.0270

Uranus 116750-11-09 17:44 G 44363434.14 44363434.24 44363434.35 0.0139 0.0085

Saturn 116751-02-04 10:32 G 44363520.81 44363520.94 44363521.07 0.0284 0.0107

Uranus 116751-02-05 21:34 G 44363522.31 44363522.40 44363522.49 0.0139 0.0105

Saturn 116751-05-03 23:29 G 44363609.34 44363609.48 44363609.61 0.0284 0.0056

Uranus 116751-05-05 01:10 G 44363610.50 44363610.55 44363610.62 0.0139 0.0124

Saturn 116751-07-31 12:12 G 44363697.92 44363698.01 44363698.10 0.0285 0.0216

Jupiter 116755-01-17 22:17 G 44364964.26 44364964.43 44364964.59 0.0494 0.0106

Venus 116757-08-06 23:15 G 44365896.39 44365896.47 44365896.56 0.3710 0.2196

Mars 116757-11-06 22:46 G 44365988.35 44365988.45 44365988.55 0.1889 0.0909

Mars 116758-12-03 07:53 G 44366379.74 44366379.83 44366379.93 0.1665 0.1344

Jupiter 116760-09-24 11:58 G 44367040.87 44367041.00 44367041.13 0.0533 0.0157

Earth 116762-08-29 14:08 G 44367744.98 44367745.09 44367745.20 0.2665 0.0689

Moon 116762-08-29 14:36 G 44367745.00 44367745.11 44367745.22 0.2660 0.0700 *

Venus 116763-02-20 16:32 G 44367920.08 44367920.19 44367920.29 0.3707 0.0416

Saturn 116765-02-26 19:24 G 44368657.27 44368657.31 44368657.36 0.0275 0.0262

Earth 116765-03-01 08:22 G 44368659.73 44368659.85 44368659.97 0.2666 0.1467

Moon 116765-03-01 08:51 G 44368659.75 44368659.87 44368660.00 0.2659 0.1482 *

Saturn 116765-05-26 14:22 G 44368745.94 44368746.10 44368746.27 0.0275 0.0080

Saturn 116765-08-23 09:48 G 44368834.74 44368834.91 44368835.07 0.0275 0.0106

Jupiter 116766-11-05 22:17 G 44369274.29 44369274.43 44369274.57 0.0494 0.0277

Jupiter 116767-02-03 23:15 G 44369364.41 44369364.47 44369364.54 0.0497 0.0456

Mars 116768-04-24 09:05 G 44369809.72 44369809.88 44369810.05 0.1658 0.0103

Venus 116768-09-05 09:20 G 44369943.79 44369943.89 44369943.99 0.3703 0.1335

Jupiter 116772-07-13 14:36 G 44371350.98 44371351.11 44371351.24 0.0533 0.0025

Venus 116774-03-22 02:08 G 44371967.53 44371967.59 44371967.65 0.3699 0.3019

Moon 116775-09-01 07:53 G 44372495.78 44372495.83 44372495.88 0.2659 0.2389

Earth 116775-09-01 08:22 G 44372495.81 44372495.85 44372495.90 0.2663 0.2435 *

Venus 116775-10-04 23:58 G 44372529.38 44372529.50 44372529.62 0.3667 0.1894

Mars 116777-09-14 10:32 G 44373239.82 44373239.94 44373240.06 0.1652 0.1128

Moon 116778-03-04 11:15 G 44373410.85 44373410.97 44373411.09 0.2664 0.1565

Earth 116778-03-04 12:27 G 44373410.90 44373411.02 44373411.14 0.2668 0.1659 *

Mars 116778-07-26 06:12 G 44373554.69 44373554.76 44373554.83 0.1874 0.1473

Jupiter 116778-08-24 22:03 G 44373584.36 44373584.42 44373584.49 0.0493 0.0449

Jupiter 116778-11-22 22:32 G 44373674.29 44373674.44 44373674.58 0.0496 0.0271

Saturn 116780-06-23 12:12 G 44374252.90 44374253.01 44374253.13 0.0284 0.0155

Saturn 116780-09-20 01:24 G 44374341.42 44374341.56 44374341.69 0.0285 0.0012

Saturn 116780-12-17 14:08 G 44374429.98 44374430.09 44374430.20 0.0285 0.0170

Venus 116781-04-20 03:34 G 44374553.52 44374553.65 44374553.77 0.3671 0.1765

Earth 116782-08-25 05:58 G 44375045.71 44375045.75 44375045.78 0.2669 0.2530

Moon 116782-08-25 06:41 G 44375045.73 44375045.78 44375045.82 0.2667 0.2457 *

Jupiter 116784-05-01 17:29 G 44375661.10 44375661.23 44375661.35 0.0534 0.0204

Jupiter 116784-07-30 03:34 G 44375750.60 44375750.65 44375750.70 0.0531 0.0486

Mars 116787-12-16 14:36 G 44376985.00 44376985.11 44376985.23 0.1881 0.0382

Uranus 116789-03-29 13:39 G 44377453.98 44377454.07 44377454.16 0.0139 0.0120

Uranus 116789-06-25 19:53 G 44377542.21 44377542.33 44377542.46 0.0139 0.0095

Uranus 116789-09-22 02:08 G 44377630.45 44377630.59 44377630.75 0.0139 0.0071

Uranus 116789-12-19 08:36 G 44377718.70 44377718.86 44377719.03 0.0139 0.0046

Uranus 116790-03-17 15:05 G 44377806.96 44377807.13 44377807.31 0.0139 0.0022

Uranus 116790-06-13 21:34 G 44377895.23 44377895.40 44377895.58 0.0139 0.0005

Uranus 116790-09-10 04:03 G 44377983.50 44377983.67 44377983.85 0.0139 0.0029

Jupiter 116790-09-10 21:05 G 44377984.21 44377984.38 44377984.55 0.0495 0.0077

Uranus 116790-12-07 10:32 G 44378071.79 44378071.94 44378072.12 0.0139 0.0054

Uranus 116791-03-05 17:15 G 44378160.08 44378160.22 44378160.37 0.0139 0.0079

Uranus 116791-06-01 23:58 G 44378248.39 44378248.50 44378248.62 0.0139 0.0104

Uranus 116791-08-29 06:27 G 44378336.72 44378336.77 44378336.84 0.0139 0.0130

Saturn 116794-10-13 16:03 G 44379478.02 44379478.17 44379478.33 0.0275 0.0114

Saturn 116795-01-10 11:15 G 44379566.80 44379566.97 44379567.14 0.0275 0.0071

Saturn 116795-04-09 06:41 G 44379655.73 44379655.78 44379655.84 0.0275 0.0259

Moon 116795-08-28 00:27 G 44379796.41 44379796.52 44379796.63 0.2660 0.0663

Earth 116795-08-28 00:27 G 44379796.41 44379796.52 44379796.63 0.2667 0.0717 *

Jupiter 116796-02-18 20:08 G 44379971.25 44379971.34 44379971.44 0.0535 0.0385

Jupiter 116796-05-18 06:41 G 44380060.68 44380060.78 44380060.89 0.0532 0.0320

Mars 116797-05-07 22:46 G 44380415.34 44380415.45 44380415.56 0.1889 0.0783

Mars 116798-06-03 08:36 G 44380806.80 44380806.86 44380806.92 0.1665 0.1524

Neptune 116800-03-24 07:24 G 44381466.77 44381466.81 44381466.87 0.0088 0.0082

Neptune 116800-06-20 08:51 G 44381554.82 44381554.87 44381554.96 0.0088 0.0076

Neptune 116800-09-16 10:32 G 44381642.87 44381642.94 44381643.04 0.0088 0.0068

Neptune 116800-12-13 12:12 G 44381730.92 44381731.01 44381731.12 0.0088 0.0061

Neptune 116801-03-11 13:53 G 44381818.97 44381819.08 44381819.20 0.0088 0.0054

Neptune 116801-06-07 15:20 G 44381907.03 44381907.14 44381907.27 0.0088 0.0048

Neptune 116801-09-03 17:00 G 44381995.09 44381995.21 44381995.34 0.0088 0.0040

Neptune 116801-11-30 18:41 G 44382083.15 44382083.28 44382083.41 0.0088 0.0033

Neptune 116802-02-26 20:08 G 44382171.21 44382171.34 44382171.48 0.0088 0.0027

Neptune 116802-05-25 21:48 G 44382259.27 44382259.41 44382259.55 0.0088 0.0020

Jupiter 116802-06-29 20:36 G 44382294.20 44382294.36 44382294.53 0.0494 0.0102

Neptune 116802-08-21 23:15 G 44382347.33 44382347.47 44382347.61 0.0088 0.0013

Neptune 116802-11-18 00:56 G 44382435.40 44382435.54 44382435.68 0.0088 0.0006

Neptune 116803-02-14 02:22 G 44382523.46 44382523.60 44382523.74 0.0088 0.0001

Neptune 116803-05-13 03:48 G 44382611.52 44382611.66 44382611.80 0.0088 0.0008

Neptune 116803-08-09 05:29 G 44382699.59 44382699.73 44382699.87 0.0088 0.0014

Neptune 116803-11-05 06:56 G 44382787.65 44382787.79 44382787.93 0.0088 0.0021

Neptune 116804-02-01 08:22 G 44382875.72 44382875.85 44382875.98 0.0088 0.0028

Neptune 116804-04-29 09:48 G 44382963.79 44382963.91 44382964.04 0.0088 0.0034

Neptune 116804-07-26 11:15 G 44383051.85 44383051.97 44383052.10 0.0088 0.0041

Neptune 116804-10-22 12:41 G 44383139.92 44383140.03 44383140.15 0.0088 0.0048

Neptune 116805-01-18 14:22 G 44383227.99 44383228.10 44383228.21 0.0088 0.0054

Neptune 116805-04-16 15:34 G 44383316.06 44383316.15 44383316.26 0.0088 0.0061

Neptune 116805-07-13 17:15 G 44383404.13 44383404.22 44383404.31 0.0088 0.0067

Neptune 116805-10-09 18:27 G 44383492.21 44383492.27 44383492.35 0.0088 0.0074

Neptune 116806-01-05 19:53 G 44383580.29 44383580.33 44383580.40 0.0088 0.0081

Neptune 116806-04-03 21:34 G 44383668.39 44383668.40 44383668.42 0.0088 0.0087

Mars 116807-10-24 09:48 G 44384236.75 44384236.91 44384237.07 0.1658 0.0269

Jupiter 116808-03-06 10:32 G 44384370.81 44384370.94 44384371.07 0.0533 0.0157

Venus 116808-08-28 04:03 G 44384545.63 44384545.67 44384545.70 0.3713 0.3441

Moon 116808-08-29 18:12 G 44384547.16 44384547.26 44384547.37 0.2664 0.0877

Earth 116808-08-29 18:56 G 44384547.19 44384547.29 44384547.40 0.2665 0.1065 *

Saturn 116809-11-10 13:39 G 44384984.98 44384985.07 44384985.17 0.0283 0.0205

Saturn 116810-02-07 02:36 G 44385073.48 44385073.61 44385073.75 0.0284 0.0043

Saturn 116810-05-06 15:34 G 44385162.02 44385162.15 44385162.27 0.0284 0.0119

Saturn 116810-08-03 04:03 G 44385250.65 44385250.67 44385250.70 0.0284 0.0278

Moon 116811-03-02 13:10 G 44385461.91 44385462.05 44385462.18 0.2666 0.1104

Earth 116811-03-02 14:36 G 44385461.97 44385462.11 44385462.25 0.2666 0.0860 *

Venus 116814-03-13 21:20 G 44386569.29 44386569.39 44386569.48 0.3709 0.1613

Jupiter 116814-04-17 20:22 G 44386604.21 44386604.35 44386604.49 0.0494 0.0277

Jupiter 116814-07-16 21:20 G 44386694.32 44386694.39 44386694.46 0.0496 0.0454

Mars 116817-03-15 11:15 G 44387666.84 44387666.97 44387667.11 0.1652 0.0951

Mars 116818-01-24 06:12 G 44387981.71 44387981.76 44387981.82 0.1873 0.1604

Venus 116819-09-27 14:22 G 44388592.99 44388593.10 44388593.20 0.3706 0.0220

Jupiter 116819-12-24 13:53 G 44388680.94 44388681.08 44388681.21 0.0534 0.0013

Saturn 116824-03-01 13:39 G 44390209.95 44390210.07 44390210.20 0.0275 0.0188

Moon 116824-03-04 17:44 G 44390213.15 44390213.24 44390213.33 0.2674 0.2146

Earth 116824-03-04 18:41 G 44390213.20 44390213.28 44390213.35 0.2668 0.2285 *

Saturn 116824-05-29 08:36 G 44390298.69 44390298.86 44390299.04 0.0275 0.0008

Saturn 116824-08-26 04:03 G 44390387.54 44390387.67 44390387.80 0.0275 0.0182

Venus 116825-04-12 07:10 G 44390616.71 44390616.80 44390616.89 0.3702 0.1891

Jupiter 116826-02-03 20:36 G 44390914.29 44390914.36 44390914.43 0.0493 0.0444

Jupiter 116826-05-04 20:51 G 44391004.23 44391004.37 44391004.51 0.0496 0.0275

Mars 116827-06-16 14:36 G 44391412.00 44391412.11 44391412.22 0.1882 0.0490

Moon 116828-08-25 10:17 G 44391847.87 44391847.93 44391848.00 0.2663 0.2211

Earth 116828-08-25 10:46 G 44391847.89 44391847.95 44391848.02 0.2668 0.2145 *

Venus 116830-10-26 23:58 G 44392640.47 44392640.50 44392640.52 0.3698 0.3557

Jupiter 116831-10-12 16:32 G 44392991.06 44392991.19 44392991.32 0.0534 0.0193

Jupiter 116832-01-10 02:36 G 44393080.56 44393080.61 44393080.65 0.0531 0.0496

Uranus 116832-04-04 06:12 G 44393165.71 44393165.76 44393165.81 0.0139 0.0128

Venus 116832-05-11 00:27 G 44393202.38 44393202.52 44393202.66 0.3668 0.0779

Uranus 116832-07-01 10:03 G 44393253.84 44393253.92 44393254.02 0.0139 0.0108

Uranus 116832-09-27 14:08 G 44393341.98 44393342.09 44393342.20 0.0139 0.0088

Uranus 116832-12-24 17:58 G 44393430.13 44393430.25 44393430.38 0.0139 0.0068

Uranus 116833-03-22 22:03 G 44393518.29 44393518.42 44393518.55 0.0139 0.0048

Uranus 116833-06-19 01:53 G 44393606.44 44393606.58 44393606.72 0.0139 0.0028

Uranus 116833-09-15 05:44 G 44393694.60 44393694.74 44393694.89 0.0139 0.0009

Uranus 116833-12-12 09:34 G 44393782.77 44393782.90 44393783.05 0.0139 0.0013

Uranus 116834-03-10 13:24 G 44393870.93 44393871.06 44393871.20 0.0139 0.0032

Uranus 116834-06-06 17:15 G 44393959.10 44393959.22 44393959.36 0.0139 0.0051

Uranus 116834-09-02 21:05 G 44394047.26 44394047.38 44394047.50 0.0139 0.0071

Uranus 116834-11-30 00:56 G 44394135.44 44394135.54 44394135.65 0.0139 0.0090

Uranus 116835-02-26 04:46 G 44394223.61 44394223.70 44394223.78 0.0139 0.0109

Uranus 116835-05-25 08:22 G 44394311.81 44394311.85 44394311.91 0.0139 0.0129

Pluto 116836-07-01 09:34 G 44394714.83 44394714.90 44394715.00 0.0059 0.0054

Pluto 116836-09-27 11:00 G 44394802.84 44394802.96 44394803.10 0.0059 0.0045

Mars 116836-11-05 23:00 G 44394842.35 44394842.46 44394842.57 0.1889 0.0634

Pluto 116836-12-24 12:27 G 44394890.87 44394891.02 44394891.19 0.0059 0.0036

Pluto 116837-03-22 14:08 G 44394978.91 44394979.09 44394979.26 0.0059 0.0027

Pluto 116837-06-18 15:20 G 44395066.96 44395067.14 44395067.33 0.0059 0.0018

Pluto 116837-09-14 16:46 G 44395155.01 44395155.20 44395155.40 0.0059 0.0009

Venus 116837-11-25 04:17 G 44395226.60 44395226.68 44395226.76 0.3673 0.2936

Pluto 116837-12-11 18:12 G 44395243.06 44395243.26 44395243.46 0.0060 0.0000

Jupiter 116838-02-20 20:22 G 44395314.18 44395314.35 44395314.52 0.0495 0.0095

Pluto 116838-03-09 19:24 G 44395331.12 44395331.31 44395331.51 0.0060 0.0009

Pluto 116838-06-05 20:36 G 44395419.19 44395419.36 44395419.57 0.0060 0.0019

Pluto 116838-09-01 22:03 G 44395507.26 44395507.42 44395507.61 0.0060 0.0028

Pluto 116838-11-28 23:15 G 44395595.34 44395595.47 44395595.65 0.0060 0.0037

Pluto 116839-02-25 00:41 G 44395683.43 44395683.53 44395683.68 0.0060 0.0046

Saturn 116839-03-30 15:05 G 44395717.07 44395717.13 44395717.18 0.0284 0.0258

Pluto 116839-05-24 02:08 G 44395771.53 44395771.59 44395771.69 0.0060 0.0055

Saturn 116839-06-27 04:03 G 44395805.54 44395805.67 44395805.80 0.0284 0.0095

Saturn 116839-09-23 17:00 G 44395894.07 44395894.21 44395894.34 0.0285 0.0068

Saturn 116839-12-21 05:29 G 44395982.66 44395982.73 44395982.82 0.0285 0.0228

Moon 116841-08-28 04:46 G 44396598.59 44396598.70 44396598.81 0.2668 0.0478

Earth 116841-08-28 05:29 G 44396598.62 44396598.73 44396598.84 0.2666 0.0338 *

Jupiter 116843-07-31 19:10 G 44397301.21 44397301.30 44397301.40 0.0535 0.0374

Jupiter 116843-10-29 05:44 G 44397390.64 44397390.74 44397390.85 0.0532 0.0327

Mars 116846-03-29 06:41 G 44398272.75 44398272.78 44398272.81 0.1896 0.1821

Mars 116847-04-24 10:17 G 44398663.77 44398663.93 44398664.09 0.1659 0.0436

Jupiter 116849-12-09 19:24 G 44399624.14 44399624.31 44399624.47 0.0494 0.0095

Saturn 116853-07-19 14:51 G 44400942.03 44400942.12 44400942.23 0.0276 0.0226

Saturn 116853-10-16 10:03 G 44401030.75 44401030.92 44401031.09 0.0275 0.0042

Saturn 116854-01-13 05:15 G 44401119.58 44401119.72 44401119.87 0.0275 0.0144

Moon 116854-08-30 23:44 G 44401349.40 44401349.49 44401349.59 0.2671 0.1439

Earth 116854-08-30 23:58 G 44401349.40 44401349.50 44401349.59 0.2665 0.1429 *

Jupiter 116855-08-17 08:51 G 44401700.74 44401700.87 44401701.00 0.0533 0.0154

Mars 116856-09-13 11:58 G 44402093.86 44402094.00 44402094.14 0.1653 0.0777

Moon 116857-03-02 20:36 G 44402264.22 44402264.36 44402264.51 0.2674 0.0164

Earth 116857-03-02 20:36 G 44402264.22 44402264.36 44402264.51 0.2666 0.0253 *

Mars 116857-07-25 06:12 G 44402408.72 44402408.76 44402408.80 0.1873 0.1726

Jupiter 116861-09-27 18:56 G 44403934.15 44403934.29 44403934.44 0.0493 0.0269

Jupiter 116861-12-26 19:39 G 44404024.27 44404024.32 44404024.39 0.0496 0.0461

Venus 116865-04-04 01:53 G 44405218.51 44405218.58 44405218.65 0.3712 0.2834

Mars 116866-12-15 14:36 G 44405839.00 44405839.11 44405839.22 0.1881 0.0635

Jupiter 116867-06-05 12:12 G 44406010.88 44406011.01 44406011.15 0.0534 0.0021

Saturn 116868-11-13 05:44 G 44406537.62 44406537.74 44406537.86 0.0283 0.0142

Saturn 116869-02-09 18:41 G 44406626.14 44406626.28 44406626.42 0.0284 0.0020

Saturn 116869-05-09 07:24 G 44406714.70 44406714.81 44406714.91 0.0284 0.0179

Venus 116870-10-18 19:10 G 44407242.19 44407242.30 44407242.40 0.3708 0.1023

Uranus 116873-01-20 14:22 G 44408067.08 44408067.10 44408067.12 0.0139 0.0138

Uranus 116873-04-18 20:36 G 44408155.27 44408155.36 44408155.46 0.0139 0.0114

Uranus 116873-07-16 02:51 G 44408243.49 44408243.62 44408243.76 0.0139 0.0089

Jupiter 116873-07-16 18:56 G 44408244.22 44408244.29 44408244.36 0.0493 0.0441

Uranus 116873-10-12 09:05 G 44408331.74 44408331.88 44408332.05 0.0139 0.0065

Jupiter 116873-10-14 18:56 G 44408334.15 44408334.29 44408334.44 0.0496 0.0277

Uranus 116874-01-08 15:48 G 44408419.99 44408420.16 44408420.33 0.0139 0.0040

Uranus 116874-04-06 22:17 G 44408508.25 44408508.43 44408508.60 0.0139 0.0015

Uranus 116874-07-04 04:46 G 44408596.52 44408596.70 44408596.88 0.0139 0.0010

Moon 116874-08-26 15:05 G 44408650.05 44408650.13 44408650.22 0.2672 0.1804

Earth 116874-08-26 15:48 G 44408650.08 44408650.16 44408650.25 0.2668 0.1759 *

Uranus 116874-09-30 11:15 G 44408684.80 44408684.97 44408685.14 0.0139 0.0035

Uranus 116874-12-27 17:44 G 44408773.08 44408773.24 44408773.41 0.0139 0.0060

Uranus 116875-03-26 00:12 G 44408861.38 44408861.51 44408861.66 0.0139 0.0085

Uranus 116875-06-22 06:56 G 44408949.69 44408949.79 44408949.90 0.0139 0.0110

Uranus 116875-09-18 13:24 G 44409038.04 44409038.06 44409038.11 0.0139 0.0136

Venus 116876-05-03 12:12 G 44409265.90 44409266.01 44409266.11 0.3705 0.0744

Mars 116876-05-06 22:46 G 44409269.34 44409269.45 44409269.56 0.1889 0.0517

Jupiter 116879-03-24 15:34 G 44410321.03 44410321.15 44410321.28 0.0535 0.0180

Jupiter 116879-06-22 01:39 G 44410410.54 44410410.57 44410410.61 0.0531 0.0511

Venus 116881-11-17 05:00 G 44411289.63 44411289.71 44411289.79 0.3701 0.2440

Saturn 116883-03-05 07:10 G 44411762.65 44411762.80 44411762.96 0.0275 0.0120

Venus 116883-06-01 21:48 G 44411851.35 44411851.41 44411851.48 0.3665 0.3192

Saturn 116883-06-02 02:22 G 44411851.44 44411851.60 44411851.77 0.0275 0.0066 *

Saturn 116883-08-29 21:48 G 44411940.35 44411940.41 44411940.48 0.0275 0.0254

Neptune 116884-02-20 17:00 G 44412115.18 44412115.21 44412115.27 0.0089 0.0085

Neptune 116884-05-18 20:08 G 44412203.26 44412203.34 44412203.44 0.0089 0.0077

Neptune 116884-08-14 23:15 G 44412291.36 44412291.47 44412291.59 0.0089 0.0068

Neptune 116884-11-11 01:53 G 44412379.46 44412379.58 44412379.73 0.0089 0.0059

Neptune 116885-02-07 05:00 G 44412467.58 44412467.71 44412467.87 0.0089 0.0050

Neptune 116885-05-06 08:08 G 44412555.69 44412555.84 44412556.01 0.0089 0.0041

Neptune 116885-08-02 11:15 G 44412643.81 44412643.97 44412644.14 0.0089 0.0032

Jupiter 116885-08-02 18:41 G 44412644.12 44412644.28 44412644.45 0.0495 0.0101 *

Mars 116885-09-27 06:41 G 44412699.73 44412699.78 44412699.84 0.1897 0.1688

Neptune 116885-10-29 14:22 G 44412731.93 44412732.10 44412732.28 0.0089 0.0023

Neptune 116886-01-25 17:29 G 44412820.05 44412820.23 44412820.41 0.0089 0.0014

Neptune 116886-04-23 20:36 G 44412908.18 44412908.36 44412908.54 0.0089 0.0005

Neptune 116886-07-20 23:44 G 44412996.31 44412996.49 44412996.67 0.0089 0.0004

Neptune 116886-10-17 02:51 G 44413084.44 44413084.62 44413084.80 0.0089 0.0013

Mars 116886-10-23 11:15 G 44413090.81 44413090.97 44413091.12 0.1659 0.0625

Neptune 116887-01-13 05:58 G 44413172.57 44413172.75 44413172.92 0.0089 0.0022

Neptune 116887-04-11 09:05 G 44413260.71 44413260.88 44413261.05 0.0089 0.0032

Neptune 116887-07-08 11:58 G 44413348.85 44413349.00 44413349.17 0.0089 0.0041

Earth 116887-08-29 10:17 G 44413400.82 44413400.93 44413401.05 0.2666 0.0119

Moon 116887-08-29 10:46 G 44413400.83 44413400.95 44413401.06 0.2673 0.0073 *

Neptune 116887-10-04 15:05 G 44413436.99 44413437.13 44413437.29 0.0089 0.0050

Neptune 116887-12-31 18:12 G 44413525.14 44413525.26 44413525.41 0.0089 0.0060

Neptune 116888-03-28 21:34 G 44413613.29 44413613.40 44413613.52 0.0089 0.0069

Neptune 116888-06-25 00:27 G 44413701.45 44413701.52 44413701.63 0.0089 0.0078

Neptune 116888-09-21 03:48 G 44413789.64 44413789.66 44413789.71 0.0089 0.0087

Venus 116888-12-16 01:10 G 44413875.40 44413875.55 44413875.69 0.3669 0.0347

Moon 116890-02-28 23:58 G 44414315.49 44414315.50 44414315.52 0.2670 0.2638

Jupiter 116891-01-10 18:12 G 44414631.17 44414631.26 44414631.36 0.0535 0.0362

Jupiter 116891-04-10 04:46 G 44414720.60 44414720.70 44414720.80 0.0532 0.0339

Mars 116896-03-14 12:27 G 44416520.87 44416521.02 44416521.17 0.1653 0.0612

Mars 116897-01-23 06:12 G 44416835.76 44416835.76 44416835.77 0.1873 0.1867

Jupiter 116897-05-21 18:27 G 44416954.10 44416954.27 44416954.44 0.0494 0.0077

Saturn 116898-04-02 06:41 G 44417269.68 44417269.78 44417269.88 0.0284 0.0199

Saturn 116898-06-29 19:39 G 44417358.18 44417358.32 44417358.46 0.0284 0.0037

Saturn 116898-09-26 08:22 G 44417446.73 44417446.85 44417446.98 0.0284 0.0126

Saturn 116898-12-23 21:05 G 44417535.38 44417535.38 44417535.39 0.0285 0.0284

Earth 116900-09-01 04:46 G 44418151.62 44418151.70 44418151.78 0.2664 0.1794

Moon 116900-09-01 05:29 G 44418151.66 44418151.73 44418151.81 0.2663 0.1986 *

Jupiter 116903-01-28 07:53 G 44419030.70 44419030.83 44419030.96 0.0533 0.0167

Earth 116903-03-05 02:51 G 44419066.47 44419066.62 44419066.77 0.2667 0.0374

Moon 116903-03-05 04:17 G 44419066.54 44419066.68 44419066.82 0.2666 0.0661 *

Mars 116906-06-16 14:36 G 44420266.01 44420266.11 44420266.22 0.1881 0.0767

Jupiter 116909-03-10 17:44 G 44421264.10 44421264.24 44421264.39 0.0493 0.0259

Jupiter 116909-06-08 18:41 G 44421354.23 44421354.28 44421354.33 0.0496 0.0470

Saturn 116912-07-23 08:22 G 44422494.71 44422494.85 44422494.99 0.0276 0.0159

Saturn 116912-10-20 03:34 G 44422583.47 44422583.65 44422583.82 0.0276 0.0026

Saturn 116913-01-16 22:46 G 44422672.35 44422672.45 44422672.56 0.0275 0.0214

Jupiter 116914-11-16 10:46 G 44423340.81 44423340.95 44423341.08 0.0534 0.0013

Mars 116915-11-06 23:00 G 44423696.34 44423696.46 44423696.57 0.1889 0.0384

Uranus 116916-04-25 12:56 G 44423866.99 44423867.04 44423867.12 0.0139 0.0124

Uranus 116916-07-22 17:00 G 44423955.13 44423955.21 44423955.31 0.0139 0.0104

Uranus 116916-10-18 21:05 G 44424043.27 44424043.38 44424043.50 0.0139 0.0083

Uranus 116917-01-15 01:10 G 44424131.42 44424131.55 44424131.68 0.0139 0.0063

Uranus 116917-04-13 05:00 G 44424219.58 44424219.71 44424219.85 0.0139 0.0043

Uranus 116917-07-10 08:51 G 44424307.74 44424307.87 44424308.02 0.0139 0.0024

Uranus 116917-10-06 12:56 G 44424395.90 44424396.04 44424396.18 0.0139 0.0004

Uranus 116918-01-02 16:46 G 44424484.06 44424484.20 44424484.34 0.0139 0.0016

Uranus 116918-03-31 20:36 G 44424572.22 44424572.36 44424572.50 0.0139 0.0036

Uranus 116918-06-28 00:27 G 44424660.39 44424660.52 44424660.65 0.0139 0.0055

Uranus 116918-09-24 04:03 G 44424748.56 44424748.67 44424748.79 0.0139 0.0075

Uranus 116918-12-21 07:53 G 44424836.73 44424836.83 44424836.94 0.0139 0.0095

Uranus 116919-03-19 11:44 G 44424924.91 44424924.99 44424925.07 0.0139 0.0114

Uranus 116919-06-15 15:20 G 44425013.11 44425013.14 44425013.19 0.0139 0.0133

Earth 116920-08-27 20:51 G 44425452.27 44425452.37 44425452.46 0.2668 0.1381

Moon 116920-08-27 21:20 G 44425452.29 44425452.39 44425452.49 0.2672 0.1242 *

Jupiter 116920-12-27 17:44 G 44425574.16 44425574.24 44425574.33 0.0493 0.0430

Jupiter 116921-03-27 17:58 G 44425664.11 44425664.25 44425664.39 0.0495 0.0287

Venus 116921-11-09 23:44 G 44425891.41 44425891.49 44425891.58 0.3711 0.2244

Mars 116925-03-29 06:56 G 44427126.72 44427126.79 44427126.85 0.1896 0.1550

Mars 116926-04-24 11:44 G 44427517.85 44427517.99 44427518.14 0.1659 0.0802

Jupiter 116926-09-04 14:08 G 44427650.96 44427651.09 44427651.22 0.0535 0.0180

Jupiter 116926-12-03 00:12 G 44427740.48 44427740.51 44427740.55 0.0532 0.0512

Venus 116927-05-26 17:00 G 44427915.10 44427915.21 44427915.31 0.3708 0.0474

Saturn 116927-08-21 08:36 G 44428001.79 44428001.86 44428001.93 0.0283 0.0243

Saturn 116927-11-17 21:34 G 44428090.27 44428090.40 44428090.54 0.0283 0.0082

Saturn 116928-02-14 10:32 G 44428178.80 44428178.94 44428179.07 0.0283 0.0079

Saturn 116928-05-12 23:00 G 44428267.39 44428267.46 44428267.54 0.0284 0.0238

Venus 116932-12-09 09:48 G 44429938.81 44429938.91 44429939.01 0.3704 0.1300

Pluto 116932-12-17 11:00 G 44429946.93 44429946.96 44429947.02 0.0085 0.0079

Jupiter 116933-01-13 17:15 G 44429974.05 44429974.22 44429974.39 0.0495 0.0104

Pluto 116933-03-15 12:27 G 44430034.93 44430035.02 44430035.11 0.0085 0.0061

Pluto 116933-06-11 13:24 G 44430122.96 44430123.06 44430123.19 0.0085 0.0044

Earth 116933-08-30 15:20 G 44430203.03 44430203.14 44430203.25 0.2666 0.0414

Moon 116933-08-30 16:03 G 44430203.06 44430203.17 44430203.28 0.2663 0.0515 *

Pluto 116933-09-07 14:51 G 44430211.00 44430211.12 44430211.25 0.0085 0.0026

Pluto 116933-12-04 16:03 G 44430299.04 44430299.17 44430299.31 0.0085 0.0009

Pluto 116934-03-02 17:15 G 44430387.10 44430387.22 44430387.36 0.0085 0.0010

Pluto 116934-05-29 18:27 G 44430475.15 44430475.27 44430475.40 0.0085 0.0027

Pluto 116934-08-25 19:39 G 44430563.21 44430563.32 44430563.44 0.0084 0.0044

Pluto 116934-11-21 20:36 G 44430651.29 44430651.36 44430651.47 0.0084 0.0062

Pluto 116935-02-17 21:48 G 44430739.38 44430739.41 44430739.47 0.0084 0.0078

Mars 116935-09-14 13:10 G 44430947.89 44430948.05 44430948.21 0.1653 0.0435

Earth 116936-03-02 05:15 G 44431117.63 44431117.72 44431117.81 0.2665 0.2080

Moon 116936-03-02 06:27 G 44431117.67 44431117.77 44431117.88 0.2662 0.1841 *

Jupiter 116938-06-23 17:29 G 44431961.12 44431961.23 44431961.33 0.0535 0.0351

Venus 116938-06-25 02:36 G 44431962.55 44431962.61 44431962.67 0.3700 0.2972

Jupiter 116938-09-21 04:03 G 44432050.57 44432050.67 44432050.77 0.0532 0.0352

Venus 116940-01-07 22:17 G 44432524.32 44432524.43 44432524.54 0.3666 0.2125

Saturn 116941-12-10 05:29 G 44433226.65 44433226.73 44433226.83 0.0276 0.0236

Saturn 116942-03-09 00:41 G 44433315.36 44433315.53 44433315.70 0.0276 0.0052

Saturn 116942-06-05 19:53 G 44433404.18 44433404.33 44433404.49 0.0275 0.0135

Jupiter 116944-11-01 17:00 G 44434284.05 44434284.21 44434284.38 0.0494 0.0071

Mars 116945-02-03 15:05 G 44434378.10 44434378.13 44434378.16 0.1647 0.1617

Venus 116945-07-24 01:53 G 44434548.45 44434548.58 44434548.71 0.3671 0.1492

Mars 116945-12-15 14:36 G 44434693.01 44434693.11 44434693.22 0.1881 0.0892

Moon 116946-09-02 09:34 G 44434953.84 44434953.90 44434953.97 0.2657 0.2159

Earth 116946-09-02 09:48 G 44434953.84 44434953.91 44434953.97 0.2664 0.2166 *

Moon 116949-03-05 08:51 G 44435868.72 44435868.87 44435869.01 0.2660 0.0896

Earth 116949-03-05 09:05 G 44435868.75 44435868.88 44435869.02 0.2667 0.1009 *

Jupiter 116950-04-11 20:08 G 44436271.33 44436271.34 44436271.35 0.0536 0.0534

Jupiter 116950-07-10 06:56 G 44436360.67 44436360.79 44436360.92 0.0533 0.0180

Moon 116953-08-26 07:39 G 44437503.81 44437503.82 44437503.83 0.2670 0.2650

Mars 116955-05-07 23:00 G 44438123.34 44438123.46 44438123.57 0.1889 0.0237

Jupiter 116956-08-20 17:00 G 44438594.06 44438594.21 44438594.36 0.0494 0.0243

Jupiter 116956-11-18 17:44 G 44438684.22 44438684.24 44438684.27 0.0496 0.0489

Uranus 116957-02-10 21:48 G 44438768.35 44438768.41 44438768.47 0.0139 0.0131

Saturn 116957-04-05 22:32 G 44438822.32 44438822.44 44438822.56 0.0284 0.0140

Uranus 116957-05-10 04:03 G 44438856.56 44438856.67 44438856.78 0.0139 0.0107

Saturn 116957-07-03 11:29 G 44438910.84 44438910.98 44438911.11 0.0284 0.0024

Uranus 116957-08-06 10:17 G 44438944.79 44438944.93 44438945.08 0.0139 0.0082

Saturn 116957-09-29 23:58 G 44438999.40 44438999.50 44438999.61 0.0284 0.0183

Uranus 116957-11-02 16:32 G 44439033.04 44439033.19 44439033.36 0.0139 0.0058

Uranus 116958-01-29 23:00 G 44439121.30 44439121.46 44439121.64 0.0139 0.0033

Uranus 116958-04-28 05:29 G 44439209.56 44439209.73 44439209.91 0.0139 0.0009

Uranus 116958-07-25 11:58 G 44439297.83 44439298.00 44439298.18 0.0139 0.0017

Uranus 116958-10-21 18:27 G 44439386.11 44439386.27 44439386.45 0.0139 0.0042

Uranus 116959-01-18 00:56 G 44439474.39 44439474.54 44439474.71 0.0139 0.0067

Uranus 116959-04-16 07:24 G 44439562.69 44439562.81 44439562.96 0.0139 0.0092

Uranus 116959-07-13 14:08 G 44439651.00 44439651.09 44439651.19 0.0139 0.0117

Jupiter 116962-04-28 10:03 G 44440670.78 44440670.92 44440671.05 0.0534 0.0004

Neptune 116964-09-23 05:29 G 44441549.71 44441549.73 44441549.78 0.0088 0.0085

Mars 116964-09-27 06:56 G 44441553.71 44441553.79 44441553.86 0.1896 0.1417

Neptune 116964-12-20 07:10 G 44441637.75 44441637.80 44441637.88 0.0088 0.0078

Neptune 116965-03-18 08:36 G 44441725.79 44441725.86 44441725.96 0.0088 0.0072

Neptune 116965-06-14 10:17 G 44441813.85 44441813.93 44441814.04 0.0088 0.0064

Neptune 116965-09-10 11:58 G 44441901.90 44441902.00 44441902.12 0.0088 0.0057

Mars 116965-10-23 12:12 G 44441944.88 44441945.01 44441945.15 0.1659 0.0966

Neptune 116965-12-07 13:39 G 44441989.96 44441990.07 44441990.19 0.0088 0.0050

Neptune 116966-03-05 15:05 G 44442078.02 44442078.13 44442078.26 0.0088 0.0044

Neptune 116966-06-01 16:46 G 44442166.08 44442166.20 44442166.33 0.0088 0.0036

Neptune 116966-08-28 18:27 G 44442254.14 44442254.27 44442254.40 0.0088 0.0029

Earth 116966-08-29 01:39 G 44442254.47 44442254.57 44442254.68 0.2668 0.0996

Moon 116966-08-29 02:08 G 44442254.49 44442254.59 44442254.70 0.2662 0.0969 *

Neptune 116966-11-24 19:53 G 44442342.20 44442342.33 44442342.47 0.0088 0.0023

Neptune 116967-02-20 21:34 G 44442430.26 44442430.40 44442430.54 0.0088 0.0016

Neptune 116967-05-19 23:00 G 44442518.32 44442518.46 44442518.60 0.0088 0.0009

Neptune 116967-08-16 00:41 G 44442606.39 44442606.53 44442606.67 0.0088 0.0003

Neptune 116967-11-12 02:08 G 44442694.45 44442694.59 44442694.73 0.0088 0.0005

Neptune 116968-02-08 03:34 G 44442782.52 44442782.65 44442782.79 0.0088 0.0012

Neptune 116968-05-06 05:00 G 44442870.58 44442870.71 44442870.85 0.0088 0.0019

Jupiter 116968-06-08 16:46 G 44442904.11 44442904.20 44442904.28 0.0493 0.0419

Neptune 116968-08-02 06:27 G 44442958.64 44442958.77 44442958.91 0.0088 0.0025

Jupiter 116968-09-06 16:46 G 44442994.06 44442994.20 44442994.34 0.0495 0.0297

Neptune 116968-10-29 08:08 G 44443046.71 44443046.84 44443046.97 0.0088 0.0032

Neptune 116969-01-25 09:34 G 44443134.78 44443134.90 44443135.03 0.0088 0.0038

Neptune 116969-04-23 11:00 G 44443222.85 44443222.96 44443223.08 0.0088 0.0045

Neptune 116969-07-20 12:41 G 44443310.91 44443311.03 44443311.14 0.0088 0.0051

Neptune 116969-10-16 13:53 G 44443398.98 44443399.08 44443399.19 0.0088 0.0058

Neptune 116970-01-12 15:20 G 44443487.06 44443487.14 44443487.24 0.0088 0.0065

Neptune 116970-04-10 16:46 G 44443575.13 44443575.20 44443575.29 0.0088 0.0071

Neptune 116970-07-07 18:12 G 44443663.21 44443663.26 44443663.33 0.0088 0.0078

Neptune 116970-10-03 19:53 G 44443751.30 44443751.33 44443751.37 0.0088 0.0084

Saturn 116971-07-27 01:24 G 44444047.40 44444047.56 44444047.72 0.0276 0.0095

Saturn 116971-10-23 20:36 G 44444136.20 44444136.36 44444136.53 0.0276 0.0091

Venus 116972-12-01 04:17 G 44444540.65 44444540.68 44444540.72 0.3714 0.3495

Jupiter 116974-02-14 12:27 G 44444980.90 44444981.02 44444981.15 0.0535 0.0182

Jupiter 116974-05-14 22:46 G 44445070.42 44445070.45 44445070.48 0.0532 0.0511

Mars 116975-03-15 13:53 G 44445374.92 44445375.08 44445375.24 0.1653 0.0255

Venus 116978-06-16 21:34 G 44446564.31 44446564.40 44446564.50 0.3710 0.1668

Moon 116979-08-31 19:39 G 44447005.21 44447005.32 44447005.43 0.2660 0.0767

Earth 116979-08-31 20:22 G 44447005.24 44447005.35 44447005.45 0.2666 0.0796 *

Jupiter 116980-06-25 16:17 G 44447304.01 44447304.18 44447304.34 0.0494 0.0117

Moon 116982-03-03 10:17 G 44447919.81 44447919.93 44447920.05 0.2661 0.1550

Earth 116982-03-03 11:29 G 44447919.86 44447919.98 44447920.10 0.2665 0.1472 *

Venus 116983-12-31 14:51 G 44448588.01 44448588.12 44448588.22 0.3707 0.0163

Mars 116984-08-04 15:34 G 44448805.08 44448805.15 44448805.23 0.1647 0.1452

Mars 116985-06-15 14:51 G 44449120.02 44449120.12 44449120.21 0.1881 0.1029

Jupiter 116985-12-03 15:48 G 44449291.06 44449291.16 44449291.26 0.0536 0.0354

Jupiter 116986-03-03 02:22 G 44449380.50 44449380.60 44449380.70 0.0533 0.0351

Saturn 116986-08-24 00:41 G 44449554.42 44449554.53 44449554.64 0.0282 0.0181

Saturn 116986-11-20 13:39 G 44449642.93 44449643.07 44449643.21 0.0283 0.0020

Saturn 116987-02-17 02:22 G 44449731.48 44449731.60 44449731.72 0.0283 0.0140

Venus 116989-07-16 07:39 G 44450611.73 44450611.82 44450611.91 0.3703 0.1843

Jupiter 116992-04-13 15:34 G 44451613.98 44451614.15 44451614.32 0.0494 0.0065

Moon 116992-09-02 13:53 G 44451756.03 44451756.08 44451756.13 0.2666 0.2366

Earth 116992-09-02 14:36 G 44451756.08 44451756.11 44451756.14 0.2664 0.2533 *

Mars 116994-11-05 23:00 G 44452550.34 44452550.46 44452550.57 0.1888 0.0122

Venus 116995-01-30 00:27 G 44452635.49 44452635.52 44452635.55 0.3699 0.3509

Moon 116995-03-06 13:53 G 44452670.96 44452671.08 44452671.21 0.2669 0.1324

Earth 116995-03-06 15:20 G 44452671.02 44452671.14 44452671.26 0.2668 0.1627 *

Venus 116996-08-13 23:00 G 44453197.32 44453197.46 44453197.59 0.3667 0.1015

Jupiter 116997-09-21 18:56 G 44453601.27 44453601.29 44453601.32 0.0536 0.0525

Jupiter 116997-12-20 05:58 G 44453690.63 44453690.75 44453690.88 0.0533 0.0190

Moon 116999-08-27 11:58 G 44454305.95 44454306.00 44454306.06 0.2662 0.2351

Earth 116999-08-27 11:58 G 44454305.96 44454306.00 44454306.04 0.2669 0.2434 *

Uranus 117000-05-16 20:08 G 44454568.28 44454568.34 44454568.42 0.0139 0.0119

Uranus 117000-08-13 00:12 G 44454656.42 44454656.51 44454656.62 0.0139 0.0099

Uranus 117000-11-09 04:17 G 44454744.57 44454744.68 44454744.80 0.0139 0.0078

Saturn 117000-12-13 23:00 G 44454779.32 44454779.46 44454779.59 0.0276 0.0170

118TH MILLENNIUM CE

This is a list of transits of Mercury in the 118th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Uranus 117001-02-05 08:22 G 44454832.72 44454832.85 44454832.98 0.0139 0.0058

Saturn 117001-03-12 17:58 G 44454868.08 44454868.25 44454868.43 0.0276 0.0016

Uranus 117001-05-04 12:12 G 44454920.88 44454921.01 44454921.15 0.0139 0.0039

Saturn 117001-06-09 13:24 G 44454956.94 44454957.06 44454957.18 0.0275 0.0202

Uranus 117001-07-31 16:03 G 44455009.04 44455009.17 44455009.32 0.0139 0.0019

Uranus 117001-10-27 20:08 G 44455097.20 44455097.34 44455097.48 0.0139 0.0003

Uranus 117002-01-23 23:58 G 44455185.36 44455185.50 44455185.64 0.0139 0.0021

Venus 117002-03-01 02:36 G 44455221.52 44455221.61 44455221.71 0.3672 0.2670

Uranus 117002-04-22 03:48 G 44455273.53 44455273.66 44455273.79 0.0139 0.0041

Uranus 117002-07-19 07:24 G 44455361.69 44455361.81 44455361.94 0.0139 0.0061

Uranus 117002-10-15 11:29 G 44455449.86 44455449.98 44455450.09 0.0139 0.0080

Uranus 117003-01-11 15:05 G 44455538.04 44455538.13 44455538.23 0.0139 0.0099

Uranus 117003-04-09 18:41 G 44455626.22 44455626.28 44455626.36 0.0139 0.0119

Uranus 117003-07-06 22:32 G 44455714.43 44455714.44 44455714.47 0.0140 0.0138

Jupiter 117004-02-01 15:34 G 44455924.00 44455924.15 44455924.30 0.0493 0.0236

Mars 117004-03-29 06:56 G 44455980.70 44455980.79 44455980.87 0.1896 0.1282

Jupiter 117004-05-01 16:17 G 44456014.17 44456014.18 44456014.20 0.0496 0.0494

Mars 117005-04-24 13:10 G 44456371.93 44456372.05 44456372.17 0.1660 0.1159

Jupiter 117009-10-09 09:05 G 44458000.74 44458000.88 44458001.01 0.0534 0.0017

Moon 117012-08-30 05:58 G 44459056.64 44459056.75 44459056.86 0.2665 0.0802

Earth 117012-08-30 06:41 G 44459056.67 44459056.78 44459056.89 0.2667 0.0614 *

Mars 117014-09-14 14:22 G 44459801.94 44459802.10 44459802.27 0.1653 0.0097

Jupiter 117015-11-20 15:34 G 44460234.06 44460234.15 44460234.25 0.0493 0.0406

Saturn 117016-01-12 01:24 G 44460286.48 44460286.56 44460286.63 0.0283 0.0241

Jupiter 117016-02-18 15:48 G 44460324.03 44460324.16 44460324.29 0.0496 0.0312

Saturn 117016-04-09 14:22 G 44460374.96 44460375.10 44460375.23 0.0283 0.0079

Saturn 117016-07-07 03:05 G 44460463.50 44460463.63 44460463.76 0.0284 0.0082

Saturn 117016-10-03 15:48 G 44460552.09 44460552.16 44460552.23 0.0284 0.0240

Jupiter 117021-07-28 11:58 G 44462310.87 44462311.00 44462311.13 0.0534 0.0164

Jupiter 117021-10-25 22:03 G 44462400.41 44462400.42 44462400.43 0.0531 0.0527

Mars 117024-02-04 16:17 G 44463232.08 44463232.18 44463232.28 0.1647 0.1285

Mars 117024-12-15 14:51 G 44463547.03 44463547.12 44463547.21 0.1880 0.1164

Moon 117025-09-02 00:41 G 44463807.43 44463807.53 44463807.63 0.2670 0.1119

Earth 117025-09-02 01:10 G 44463807.45 44463807.55 44463807.65 0.2665 0.1162 *

Jupiter 117027-12-07 15:05 G 44464633.96 44464634.13 44464634.30 0.0494 0.0127

Moon 117028-03-04 16:46 G 44464722.06 44464722.20 44464722.33 0.2671 0.0994

Earth 117028-03-04 17:44 G 44464722.10 44464722.24 44464722.38 0.2666 0.0862 *

Venus 117029-07-09 02:22 G 44465213.53 44465213.60 44465213.66 0.3713 0.2900

Saturn 117030-05-02 23:29 G 44465511.38 44465511.48 44465511.59 0.0276 0.0216

Saturn 117030-07-30 18:27 G 44465600.10 44465600.27 44465600.45 0.0276 0.0032

Saturn 117030-10-27 13:53 G 44465688.94 44465689.08 44465689.22 0.0276 0.0157

Jupiter 117033-05-16 14:08 G 44466620.99 44466621.09 44466621.19 0.0536 0.0355

Jupiter 117033-08-14 00:56 G 44466710.44 44466710.54 44466710.64 0.0533 0.0350

Mars 117034-05-07 23:00 G 44466977.34 44466977.46 44466977.57 0.1888 0.0059

Venus 117035-01-22 19:39 G 44467237.21 44467237.32 44467237.42 0.3709 0.1093

Jupiter 117039-09-25 14:36 G 44468943.94 44468944.11 44468944.28 0.0494 0.0051

Venus 117040-08-07 12:41 G 44469260.92 44469261.03 44469261.13 0.3706 0.0691

Uranus 117041-03-04 05:15 G 44469469.64 44469469.72 44469469.80 0.0139 0.0124

Earth 117041-03-07 21:34 G 44469473.32 44469473.40 44469473.48 0.2668 0.2255

Moon 117041-03-07 22:32 G 44469473.37 44469473.44 44469473.50 0.2674 0.2382 *

Uranus 117041-05-31 11:29 G 44469557.86 44469557.98 44469558.10 0.0139 0.0099

Uranus 117041-08-27 17:44 G 44469646.10 44469646.24 44469646.39 0.0139 0.0075

Uranus 117041-11-24 00:12 G 44469734.35 44469734.51 44469734.67 0.0139 0.0051

Uranus 117042-02-20 06:27 G 44469822.60 44469822.77 44469822.95 0.0139 0.0026

Uranus 117042-05-19 12:56 G 44469910.87 44469911.04 44469911.22 0.0139 0.0003

Uranus 117042-08-15 19:24 G 44469999.14 44469999.31 44469999.49 0.0139 0.0024

Uranus 117042-11-12 01:53 G 44470087.42 44470087.58 44470087.75 0.0139 0.0049

Uranus 117043-02-08 08:22 G 44470175.71 44470175.85 44470176.01 0.0139 0.0074

Uranus 117043-05-07 14:51 G 44470264.01 44470264.12 44470264.26 0.0139 0.0099

Uranus 117043-08-03 21:34 G 44470352.33 44470352.40 44470352.49 0.0139 0.0124

Mars 117043-09-28 06:56 G 44470407.70 44470407.79 44470407.89 0.1895 0.1143

Mars 117044-10-23 13:53 G 44470798.98 44470799.08 44470799.17 0.1660 0.1337

Jupiter 117045-03-04 17:00 G 44470931.20 44470931.21 44470931.23 0.0537 0.0532

Saturn 117045-05-31 03:48 G 44471018.64 44471018.66 44471018.68 0.0282 0.0278

Jupiter 117045-06-02 04:17 G 44471020.56 44471020.68 44471020.81 0.0534 0.0186

Saturn 117045-08-27 16:46 G 44471107.08 44471107.20 44471107.33 0.0282 0.0117

Moon 117045-08-28 16:17 G 44471108.11 44471108.18 44471108.24 0.2670 0.2187

Earth 117045-08-28 17:00 G 44471108.14 44471108.21 44471108.28 0.2669 0.2047 *

Saturn 117045-11-24 05:44 G 44471195.60 44471195.74 44471195.88 0.0283 0.0044

Saturn 117046-02-20 18:27 G 44471284.17 44471284.27 44471284.36 0.0283 0.0202

Venus 117046-02-21 05:29 G 44471284.65 44471284.73 44471284.81 0.3702 0.2389

Venus 117047-09-05 20:22 G 44471846.30 44471846.35 44471846.40 0.3664 0.3402

Neptune 117048-11-18 15:48 G 44472286.10 44472286.16 44472286.25 0.0089 0.0081

Neptune 117049-02-14 18:41 G 44472374.19 44472374.28 44472374.40 0.0089 0.0073

Neptune 117049-05-13 21:48 G 44472462.30 44472462.41 44472462.54 0.0089 0.0064

Neptune 117049-08-10 00:56 G 44472550.40 44472550.54 44472550.69 0.0089 0.0055

Neptune 117049-11-06 04:03 G 44472638.52 44472638.67 44472638.82 0.0089 0.0046

Neptune 117050-02-02 06:41 G 44472726.63 44472726.78 44472726.96 0.0089 0.0038

Neptune 117050-05-01 09:48 G 44472814.75 44472814.91 44472815.09 0.0089 0.0028

Neptune 117050-07-28 12:56 G 44472902.87 44472903.04 44472903.23 0.0089 0.0019

Neptune 117050-10-24 16:03 G 44472991.00 44472991.17 44472991.36 0.0089 0.0010

Neptune 117051-01-20 19:24 G 44473079.12 44473079.31 44473079.49 0.0089 0.0002

Neptune 117051-04-18 22:17 G 44473167.25 44473167.43 44473167.61 0.0089 0.0009

Jupiter 117051-07-14 14:08 G 44473253.94 44473254.09 44473254.24 0.0493 0.0231

Neptune 117051-07-16 01:24 G 44473255.39 44473255.56 44473255.74 0.0089 0.0017

Neptune 117051-10-12 04:32 G 44473343.52 44473343.69 44473343.87 0.0089 0.0027

Neptune 117052-01-08 07:24 G 44473431.66 44473431.81 44473431.99 0.0089 0.0036

Neptune 117052-04-05 10:32 G 44473519.80 44473519.94 44473520.11 0.0089 0.0045

Neptune 117052-07-02 13:39 G 44473607.94 44473608.07 44473608.23 0.0089 0.0055

Neptune 117052-09-28 17:00 G 44473696.09 44473696.21 44473696.34 0.0089 0.0064

Neptune 117052-12-25 20:22 G 44473784.24 44473784.35 44473784.45 0.0089 0.0073

Venus 117053-03-21 23:44 G 44473870.34 44473870.49 44473870.63 0.3668 0.0154

Neptune 117053-03-23 23:00 G 44473872.41 44473872.46 44473872.55 0.0089 0.0083

Mars 117054-03-15 15:20 G 44474228.97 44474229.14 44474229.30 0.1653 0.0102

Jupiter 117057-03-21 07:53 G 44475330.69 44475330.83 44475330.96 0.0534 0.0022

Moon 117058-08-31 11:15 G 44475858.86 44475858.97 44475859.09 0.2673 0.0276

Earth 117058-08-31 11:44 G 44475858.87 44475858.99 44475859.10 0.2667 0.0255 *

Saturn 117059-12-17 16:17 G 44476332.03 44476332.18 44476332.35 0.0276 0.0103

Saturn 117060-03-15 11:29 G 44476420.82 44476420.98 44476421.15 0.0276 0.0084

Saturn 117060-06-12 06:56 G 44476509.77 44476509.79 44476509.82 0.0275 0.0272

Jupiter 117063-05-02 14:08 G 44477564.00 44477564.09 44477564.19 0.0493 0.0400

Jupiter 117063-07-31 14:22 G 44477653.97 44477654.10 44477654.23 0.0495 0.0318

Mars 117063-08-05 17:00 G 44477659.09 44477659.21 44477659.33 0.1647 0.1108

Mars 117064-06-15 14:36 G 44477974.03 44477974.11 44477974.20 0.1880 0.1285

Jupiter 117069-01-07 10:46 G 44479640.82 44479640.95 44479641.08 0.0535 0.0155

Earth 117071-09-03 05:58 G 44480609.66 44480609.75 44480609.85 0.2665 0.1533

Moon 117071-09-03 06:41 G 44480609.69 44480609.78 44480609.87 0.2668 0.1631 *

Mars 117073-11-05 23:00 G 44481404.35 44481404.46 44481404.58 0.1888 0.0182

Earth 117074-03-05 23:44 G 44481524.34 44481524.49 44481524.64 0.2666 0.0256

Moon 117074-03-06 01:10 G 44481524.40 44481524.55 44481524.70 0.2668 0.0123 *

Saturn 117075-01-14 17:29 G 44481839.12 44481839.23 44481839.34 0.0283 0.0177

Saturn 117075-04-13 06:27 G 44481927.63 44481927.77 44481927.91 0.0283 0.0015

Jupiter 117075-05-19 13:53 G 44481963.92 44481964.08 44481964.25 0.0495 0.0139

Saturn 117075-07-10 19:10 G 44482016.18 44482016.30 44482016.42 0.0284 0.0144

Jupiter 117080-10-26 13:39 G 44483950.96 44483951.07 44483951.17 0.0535 0.0336

Jupiter 117081-01-24 00:12 G 44484040.41 44484040.51 44484040.61 0.0532 0.0367

Pluto 117082-08-25 21:20 G 44484619.33 44484619.39 44484619.48 0.0059 0.0055

Pluto 117082-11-21 22:46 G 44484707.34 44484707.45 44484707.58 0.0059 0.0046

Pluto 117083-02-17 23:44 G 44484795.36 44484795.49 44484795.67 0.0059 0.0038

Mars 117083-03-29 06:56 G 44484834.70 44484834.79 44484834.89 0.1895 0.1011

Pluto 117083-05-17 01:10 G 44484883.40 44484883.55 44484883.75 0.0059 0.0029

Pluto 117083-08-13 02:51 G 44484971.44 44484971.62 44484971.82 0.0059 0.0019

Pluto 117083-11-09 04:17 G 44485059.49 44485059.68 44485059.88 0.0059 0.0010

Pluto 117084-02-05 05:44 G 44485147.55 44485147.74 44485147.94 0.0059 0.0002

Uranus 117084-03-09 23:15 G 44485181.44 44485181.47 44485181.50 0.0139 0.0135

Mars 117084-04-23 14:22 G 44485226.03 44485226.10 44485226.17 0.1660 0.1508

Pluto 117084-05-03 07:10 G 44485235.61 44485235.80 44485236.00 0.0060 0.0008

Uranus 117084-06-06 03:05 G 44485269.56 44485269.63 44485269.72 0.0139 0.0115

Pluto 117084-07-30 08:36 G 44485323.67 44485323.86 44485324.05 0.0060 0.0017

Uranus 117084-09-02 07:10 G 44485357.70 44485357.80 44485357.91 0.0139 0.0095

Pluto 117084-10-26 09:48 G 44485411.74 44485411.91 44485412.10 0.0060 0.0026

Uranus 117084-11-29 11:15 G 44485445.85 44485445.97 44485446.09 0.0139 0.0074

Pluto 117085-01-22 11:15 G 44485499.82 44485499.97 44485500.14 0.0060 0.0035

Uranus 117085-02-25 15:05 G 44485534.01 44485534.13 44485534.27 0.0139 0.0055

Pluto 117085-04-20 12:41 G 44485587.90 44485588.03 44485588.17 0.0060 0.0044

Uranus 117085-05-24 19:10 G 44485622.16 44485622.30 44485622.44 0.0139 0.0035

Pluto 117085-07-17 13:24 G 44485676.01 44485676.06 44485676.18 0.0060 0.0054

Uranus 117085-08-20 23:00 G 44485710.32 44485710.46 44485710.61 0.0139 0.0015

Uranus 117085-11-17 03:05 G 44485798.49 44485798.63 44485798.77 0.0139 0.0006

Venus 117086-02-13 00:12 G 44485886.43 44485886.51 44485886.59 0.3712 0.2303

Uranus 117086-02-13 06:56 G 44485886.65 44485886.79 44485886.93 0.0139 0.0025

Uranus 117086-05-12 10:46 G 44485974.82 44485974.95 44485975.08 0.0139 0.0045

Uranus 117086-08-08 14:22 G 44486062.99 44486063.10 44486063.23 0.0139 0.0065

Uranus 117086-11-04 18:27 G 44486151.16 44486151.27 44486151.38 0.0139 0.0084

Uranus 117087-01-31 22:03 G 44486239.33 44486239.42 44486239.52 0.0139 0.0103

Jupiter 117087-03-07 13:24 G 44486273.89 44486274.06 44486274.23 0.0494 0.0041

Uranus 117087-04-30 01:39 G 44486327.52 44486327.57 44486327.65 0.0140 0.0123

Saturn 117089-05-05 16:46 G 44487064.05 44487064.20 44487064.34 0.0277 0.0151

Saturn 117089-08-02 11:44 G 44487152.82 44487152.99 44487153.17 0.0276 0.0036

Saturn 117089-10-30 07:10 G 44487241.71 44487241.80 44487241.91 0.0276 0.0224

Venus 117091-08-29 17:29 G 44487910.12 44487910.23 44487910.33 0.3708 0.0510

Earth 117091-08-29 21:48 G 44487910.33 44487910.41 44487910.50 0.2668 0.1666 *

Moon 117091-08-29 22:03 G 44487910.34 44487910.42 44487910.51 0.2675 0.1709 *

Jupiter 117092-08-14 15:34 G 44488261.14 44488261.15 44488261.16 0.0537 0.0533

Jupiter 117092-11-12 02:36 G 44488350.49 44488350.61 44488350.74 0.0534 0.0184

Mars 117093-09-13 15:48 G 44488656.00 44488656.16 44488656.32 0.1654 0.0272

Venus 117097-03-14 10:32 G 44489933.84 44489933.94 44489934.04 0.3705 0.1251

Jupiter 117098-12-24 13:10 G 44490583.90 44490584.05 44490584.20 0.0493 0.0216

Venus 117102-09-29 03:20 G 44491957.57 44491957.64 44491957.70 0.3701 0.2937

Mars 117103-02-04 17:29 G 44492086.10 44492086.23 44492086.37 0.1648 0.0938

Mars 117103-12-16 14:51 G 44492401.05 44492401.12 44492401.19 0.1880 0.1428

Venus 117104-04-12 21:05 G 44492519.27 44492519.38 44492519.48 0.3665 0.2321

Saturn 117104-06-03 20:22 G 44492571.26 44492571.35 44492571.45 0.0282 0.0210

Saturn 117104-08-31 09:20 G 44492659.75 44492659.89 44492660.03 0.0282 0.0049

Jupiter 117104-09-01 05:58 G 44492660.62 44492660.75 44492660.89 0.0535 0.0016

Earth 117104-09-01 16:32 G 44492661.08 44492661.19 44492661.30 0.2667 0.0136

Moon 117104-09-01 17:15 G 44492661.11 44492661.22 44492661.33 0.2666 0.0333 *

Saturn 117104-11-27 22:03 G 44492748.30 44492748.42 44492748.55 0.0283 0.0111

Saturn 117105-02-24 10:32 G 44492836.91 44492836.94 44492836.99 0.0283 0.0268

Moon 117107-03-05 03:34 G 44493575.59 44493575.65 44493575.71 0.2663 0.2392

Venus 117109-10-28 00:27 G 44494543.38 44494543.52 44494543.65 0.3670 0.1257

Jupiter 117110-10-13 12:27 G 44494893.93 44494894.02 44494894.13 0.0492 0.0395

Jupiter 117111-01-11 12:41 G 44494983.90 44494984.03 44494984.16 0.0495 0.0320

Mars 117113-05-07 23:00 G 44495831.34 44495831.46 44495831.57 0.1888 0.0287

Jupiter 117116-06-20 09:20 G 44496970.76 44496970.89 44496971.02 0.0535 0.0153

Earth 117117-09-04 11:00 G 44497411.88 44497411.96 44497412.04 0.2665 0.1902

Moon 117117-09-04 11:15 G 44497411.90 44497411.97 44497412.05 0.2659 0.1900 *

Saturn 117118-09-23 15:05 G 44497796.03 44497796.13 44497796.24 0.0276 0.0216

Saturn 117118-12-21 10:17 G 44497884.76 44497884.93 44497885.10 0.0276 0.0031

Saturn 117119-03-20 05:29 G 44497973.59 44497973.73 44497973.88 0.0276 0.0156

Earth 117120-03-07 05:58 G 44498326.60 44498326.75 44498326.89 0.2666 0.0360

Moon 117120-03-07 06:27 G 44498326.62 44498326.77 44498326.92 0.2660 0.0368 *

Mars 117122-09-28 06:56 G 44499261.69 44499261.79 44499261.90 0.1895 0.0876

Jupiter 117122-10-30 12:12 G 44499293.84 44499294.01 44499294.17 0.0495 0.0142

Uranus 117125-03-25 12:27 G 44500170.94 44500171.02 44500171.13 0.0139 0.0117

Uranus 117125-06-21 18:41 G 44500259.16 44500259.28 44500259.42 0.0139 0.0093

Uranus 117125-09-18 01:10 G 44500347.40 44500347.55 44500347.71 0.0139 0.0068

Uranus 117125-12-15 07:39 G 44500435.65 44500435.82 44500435.99 0.0139 0.0043

Uranus 117126-03-13 14:08 G 44500523.91 44500524.09 44500524.26 0.0139 0.0019

Uranus 117126-06-09 20:36 G 44500612.18 44500612.36 44500612.53 0.0139 0.0007

Uranus 117126-09-06 02:51 G 44500700.45 44500700.62 44500700.80 0.0139 0.0031

Uranus 117126-12-03 09:20 G 44500788.73 44500788.89 44500789.06 0.0139 0.0056

Uranus 117127-03-01 15:48 G 44500877.02 44500877.16 44500877.31 0.0139 0.0081

Uranus 117127-05-28 22:32 G 44500965.33 44500965.44 44500965.56 0.0139 0.0106

Uranus 117127-08-25 05:15 G 44501053.66 44501053.72 44501053.77 0.0139 0.0131

Jupiter 117128-04-08 12:27 G 44501280.91 44501281.02 44501281.12 0.0535 0.0330

Jupiter 117128-07-06 23:00 G 44501370.36 44501370.46 44501370.55 0.0532 0.0373

Neptune 117129-06-22 05:15 G 44501720.67 44501720.72 44501720.78 0.0088 0.0082

Neptune 117129-09-18 06:56 G 44501808.72 44501808.79 44501808.87 0.0088 0.0074

Neptune 117129-12-15 08:36 G 44501896.77 44501896.86 44501896.95 0.0088 0.0067

Neptune 117130-03-13 10:03 G 44501984.82 44501984.92 44501985.03 0.0088 0.0061

Neptune 117130-06-09 11:44 G 44502072.88 44502072.99 44502073.10 0.0088 0.0054

Neptune 117130-09-05 13:24 G 44502160.94 44502161.06 44502161.18 0.0088 0.0047

Neptune 117130-12-02 14:36 G 44502249.00 44502249.11 44502249.25 0.0088 0.0041

Neptune 117131-02-28 16:17 G 44502337.06 44502337.18 44502337.32 0.0088 0.0033

Neptune 117131-05-27 17:58 G 44502425.12 44502425.25 44502425.39 0.0088 0.0026

Neptune 117131-08-23 19:39 G 44502513.18 44502513.32 44502513.46 0.0088 0.0019

Neptune 117131-11-19 21:05 G 44502601.24 44502601.38 44502601.52 0.0088 0.0012

Neptune 117132-02-15 22:46 G 44502689.31 44502689.45 44502689.59 0.0088 0.0006

Neptune 117132-05-14 00:12 G 44502777.37 44502777.51 44502777.65 0.0088 0.0002

Neptune 117132-08-10 01:39 G 44502865.44 44502865.57 44502865.71 0.0088 0.0009

Neptune 117132-11-06 03:20 G 44502953.50 44502953.64 44502953.78 0.0088 0.0015

Neptune 117133-02-02 04:46 G 44503041.57 44503041.70 44503041.84 0.0088 0.0022

Mars 117133-03-15 16:32 G 44503083.03 44503083.19 44503083.34 0.1654 0.0441

Neptune 117133-05-01 06:12 G 44503129.63 44503129.76 44503129.90 0.0088 0.0028

Neptune 117133-07-28 07:39 G 44503217.70 44503217.82 44503217.95 0.0088 0.0035

Saturn 117133-10-21 20:51 G 44503303.34 44503303.37 44503303.41 0.0283 0.0271

Neptune 117133-10-24 09:05 G 44503305.77 44503305.88 44503306.01 0.0088 0.0042

Saturn 117134-01-18 10:03 G 44503391.79 44503391.92 44503392.05 0.0283 0.0109

Neptune 117134-01-20 10:46 G 44503393.83 44503393.95 44503394.07 0.0088 0.0048

Saturn 117134-04-16 22:46 G 44503480.32 44503480.45 44503480.59 0.0283 0.0052

Neptune 117134-04-18 11:58 G 44503481.90 44503482.00 44503482.12 0.0088 0.0055

Saturn 117134-07-14 11:29 G 44503568.89 44503568.98 44503569.07 0.0284 0.0210

Neptune 117134-07-15 13:24 G 44503569.98 44503570.06 44503570.17 0.0088 0.0062

Jupiter 117134-08-18 11:58 G 44503603.83 44503604.00 44503604.17 0.0494 0.0034

Neptune 117134-10-11 15:05 G 44503658.05 44503658.13 44503658.22 0.0088 0.0068

Neptune 117135-01-07 16:17 G 44503746.12 44503746.18 44503746.27 0.0088 0.0075

Neptune 117135-04-05 17:58 G 44503834.21 44503834.25 44503834.31 0.0088 0.0081

Neptune 117135-07-02 19:24 G 44503922.31 44503922.31 44503922.33 0.0088 0.0088

Venus 117137-03-07 04:46 G 44504535.67 44504535.70 44504535.73 0.3715 0.3554

Earth 117137-08-31 02:51 G 44504712.52 44504712.62 44504712.72 0.2668 0.1284

Moon 117137-08-31 03:34 G 44504712.55 44504712.65 44504712.75 0.2666 0.1191 *

Jupiter 117140-01-26 14:51 G 44505591.09 44505591.12 44505591.16 0.0536 0.0514

Jupiter 117140-04-25 01:53 G 44505680.46 44505680.58 44505680.71 0.0533 0.0201

Mars 117142-08-05 18:12 G 44506513.12 44506513.26 44506513.40 0.1648 0.0769

Venus 117142-09-20 22:03 G 44506559.33 44506559.42 44506559.52 0.3711 0.1717

Mars 117143-06-16 14:51 G 44506828.06 44506828.12 44506828.18 0.1880 0.1558

Jupiter 117146-06-06 11:44 G 44507913.84 44507913.99 44507914.15 0.0493 0.0209

Saturn 117148-02-10 15:20 G 44508528.10 44508528.14 44508528.19 0.0277 0.0265

Venus 117148-04-05 15:20 G 44508583.03 44508583.14 44508583.25 0.3707 0.0081

Saturn 117148-05-09 10:32 G 44508616.77 44508616.94 44508617.10 0.0276 0.0081

Saturn 117148-08-06 05:44 G 44508705.58 44508705.74 44508705.90 0.0276 0.0106

Moon 117150-09-02 21:20 G 44509463.28 44509463.39 44509463.51 0.2659 0.0543

Earth 117150-09-02 21:20 G 44509463.28 44509463.39 44509463.51 0.2666 0.0525 *

Jupiter 117152-02-12 04:17 G 44509990.55 44509990.68 44509990.82 0.0534 0.0011

Mars 117152-11-05 23:00 G 44510258.35 44510258.46 44510258.58 0.1887 0.0428

Moon 117153-03-05 07:53 G 44510377.75 44510377.83 44510377.92 0.2658 0.2156

Earth 117153-03-05 08:22 G 44510377.76 44510377.85 44510377.94 0.2665 0.2079 *

Venus 117153-10-20 08:22 G 44510606.75 44510606.85 44510606.94 0.3704 0.1808

Jupiter 117158-03-25 11:29 G 44512223.88 44512223.98 44512224.09 0.0492 0.0382

Jupiter 117158-06-23 11:29 G 44512313.86 44512313.98 44512314.11 0.0495 0.0334

Venus 117159-05-06 00:56 G 44512630.51 44512630.54 44512630.58 0.3700 0.3478

Venus 117160-11-17 21:34 G 44513192.26 44513192.40 44513192.53 0.3666 0.1242

Mars 117162-03-29 07:10 G 44513688.69 44513688.80 44513688.91 0.1895 0.0737

Saturn 117163-06-07 13:10 G 44514123.93 44514124.05 44514124.18 0.0282 0.0138

Saturn 117163-09-04 02:08 G 44514212.45 44514212.59 44514212.73 0.0283 0.0023

Moon 117163-09-05 15:05 G 44514214.06 44514214.13 44514214.20 0.2663 0.2111

Earth 117163-09-05 15:48 G 44514214.11 44514214.16 44514214.22 0.2664 0.2273 *

Jupiter 117163-12-01 07:24 G 44514300.68 44514300.81 44514300.94 0.0535 0.0162

Saturn 117163-12-01 14:51 G 44514301.02 44514301.12 44514301.23 0.0283 0.0181

Jupiter 117164-02-28 17:44 G 44514390.24 44514390.24 44514390.24 0.0532 0.0532

Moon 117166-03-08 10:32 G 44515128.80 44515128.94 44515129.08 0.2667 0.0767

Earth 117166-03-08 11:58 G 44515128.87 44515129.00 44515129.14 0.2667 0.0970 *

Venus 117166-06-04 01:10 G 44515216.44 44515216.55 44515216.65 0.3671 0.2412

Uranus 117168-03-31 06:27 G 44515882.72 44515882.77 44515882.82 0.0139 0.0130

Uranus 117168-06-27 10:17 G 44515970.85 44515970.93 44515971.02 0.0139 0.0110

Uranus 117168-09-23 14:22 G 44516059.00 44516059.10 44516059.21 0.0139 0.0090

Uranus 117168-12-20 18:12 G 44516147.15 44516147.26 44516147.39 0.0139 0.0070

Uranus 117169-03-18 22:17 G 44516235.30 44516235.43 44516235.57 0.0139 0.0050

Uranus 117169-06-15 02:22 G 44516323.46 44516323.60 44516323.74 0.0139 0.0030

Uranus 117169-09-11 06:12 G 44516411.62 44516411.76 44516411.90 0.0139 0.0010

Uranus 117169-12-08 10:03 G 44516499.78 44516499.92 44516500.06 0.0139 0.0010

Uranus 117170-03-06 13:53 G 44516587.95 44516588.08 44516588.22 0.0139 0.0030

Jupiter 117170-04-11 10:17 G 44516623.77 44516623.93 44516624.10 0.0494 0.0145

Uranus 117170-06-02 17:44 G 44516676.11 44516676.24 44516676.38 0.0139 0.0049

Uranus 117170-08-29 21:34 G 44516764.28 44516764.40 44516764.53 0.0139 0.0069

Uranus 117170-11-26 01:24 G 44516852.46 44516852.56 44516852.67 0.0139 0.0088

Uranus 117171-02-22 05:15 G 44516940.64 44516940.72 44516940.81 0.0139 0.0108

Uranus 117171-05-21 09:05 G 44517028.83 44517028.88 44517028.94 0.0140 0.0127

Mars 117172-09-13 17:15 G 44517510.07 44517510.22 44517510.37 0.1654 0.0623

Jupiter 117175-09-19 10:46 G 44518610.84 44518610.95 44518611.05 0.0536 0.0332

Jupiter 117175-12-17 21:20 G 44518700.30 44518700.39 44518700.49 0.0533 0.0374

Saturn 117177-09-26 09:34 G 44519348.75 44519348.90 44519349.05 0.0276 0.0141

Saturn 117177-12-24 04:32 G 44519437.52 44519437.69 44519437.87 0.0276 0.0046

Saturn 117178-03-22 23:58 G 44519526.41 44519526.50 44519526.59 0.0276 0.0233

Pluto 117179-05-10 01:24 G 44519939.50 44519939.56 44519939.65 0.0085 0.0071

Pluto 117179-08-06 02:51 G 44520027.53 44520027.62 44520027.73 0.0085 0.0053

Pluto 117179-11-02 04:17 G 44520115.56 44520115.68 44520115.80 0.0085 0.0035

Pluto 117180-01-29 05:29 G 44520203.60 44520203.73 44520203.86 0.0085 0.0018

Pluto 117180-04-26 06:41 G 44520291.65 44520291.78 44520291.91 0.0085 0.0000

Pluto 117180-07-23 07:53 G 44520379.70 44520379.83 44520379.96 0.0085 0.0017

Pluto 117180-10-19 08:51 G 44520467.76 44520467.87 44520468.00 0.0084 0.0035

Pluto 117181-01-15 10:17 G 44520555.83 44520555.93 44520556.03 0.0084 0.0051

Pluto 117181-04-13 11:29 G 44520643.91 44520643.98 44520644.05 0.0084 0.0069

Jupiter 117182-01-28 10:03 G 44520933.75 44520933.92 44520934.10 0.0494 0.0035

Mars 117182-02-03 18:56 G 44520940.14 44520940.29 44520940.44 0.1648 0.0587

Mars 117182-12-15 14:51 G 44521255.07 44521255.12 44521255.17 0.1880 0.1688

Moon 117183-09-01 07:24 G 44521514.70 44521514.81 44521514.92 0.2662 0.0931

Earth 117183-09-01 07:53 G 44521514.72 44521514.83 44521514.93 0.2668 0.0906 *

Jupiter 117187-07-08 13:24 G 44522921.03 44522921.06 44522921.10 0.0536 0.0511

Jupiter 117187-10-06 00:41 G 44523010.41 44523010.53 44523010.65 0.0533 0.0204

Mars 117192-05-06 23:15 G 44524685.36 44524685.47 44524685.58 0.1887 0.0572

Saturn 117192-10-24 13:53 G 44524855.99 44524856.08 44524856.18 0.0283 0.0198

Saturn 117193-01-21 03:05 G 44524944.49 44524944.63 44524944.76 0.0283 0.0037

Saturn 117193-04-19 15:48 G 44525033.03 44525033.16 44525033.28 0.0283 0.0123

Saturn 117193-07-17 04:17 G 44525121.67 44525121.68 44525121.70 0.0284 0.0281

Venus 117193-10-12 02:51 G 44525208.55 44525208.62 44525208.68 0.3714 0.2953

Jupiter 117193-11-16 10:03 G 44525243.77 44525243.92 44525244.07 0.0493 0.0206

Moon 117196-09-03 01:39 G 44526265.46 44526265.57 44526265.68 0.2668 0.0721

Earth 117196-09-03 02:22 G 44526265.49 44526265.60 44526265.71 0.2666 0.0888 *

Moon 117199-03-06 13:24 G 44527179.95 44527180.06 44527180.17 0.2668 0.1763

Earth 117199-03-06 14:36 G 44527179.99 44527180.11 44527180.23 0.2665 0.1470 *

Venus 117199-04-27 20:08 G 44527232.23 44527232.34 44527232.44 0.3710 0.1134

Jupiter 117199-07-25 03:34 G 44527320.52 44527320.65 44527320.79 0.0534 0.0028

Mars 117201-09-27 07:10 G 44528115.69 44528115.80 44528115.91 0.1895 0.0603

Venus 117204-11-10 13:10 G 44529255.94 44529256.05 44529256.16 0.3706 0.0643

Jupiter 117205-09-04 10:03 G 44529553.82 44529553.92 44529554.03 0.0492 0.0376

Jupiter 117205-12-03 10:03 G 44529643.80 44529643.92 44529644.05 0.0495 0.0340

Saturn 117207-02-13 09:34 G 44530080.78 44530080.90 44530081.03 0.0277 0.0191

Saturn 117207-05-13 04:46 G 44530169.52 44530169.70 44530169.87 0.0276 0.0007

Saturn 117207-08-09 23:58 G 44530258.37 44530258.50 44530258.63 0.0276 0.0183

Uranus 117209-01-16 13:39 G 44530784.03 44530784.07 44530784.13 0.0139 0.0133

Uranus 117209-04-14 19:53 G 44530872.23 44530872.33 44530872.44 0.0139 0.0109

Uranus 117209-07-12 02:08 G 44530960.46 44530960.59 44530960.74 0.0139 0.0085

Earth 117209-09-05 20:51 G 44531016.36 44531016.37 44531016.38 0.2664 0.2638

Uranus 117209-10-08 08:22 G 44531048.70 44531048.85 44531049.02 0.0139 0.0061

Uranus 117210-01-04 15:05 G 44531136.96 44531137.13 44531137.30 0.0139 0.0036

Uranus 117210-04-02 21:20 G 44531225.22 44531225.39 44531225.57 0.0139 0.0012

Venus 117210-05-27 05:58 G 44531279.67 44531279.75 44531279.83 0.3703 0.2345

Uranus 117210-06-30 03:48 G 44531313.48 44531313.66 44531313.84 0.0139 0.0013

Uranus 117210-09-26 10:17 G 44531401.76 44531401.93 44531402.10 0.0139 0.0038

Uranus 117210-12-23 16:32 G 44531490.04 44531490.19 44531490.36 0.0139 0.0063

Mars 117211-02-17 15:05 G 44531546.09 44531546.13 44531546.16 0.1902 0.1799

Uranus 117211-03-21 23:00 G 44531578.33 44531578.46 44531578.61 0.0139 0.0088

Jupiter 117211-05-13 05:44 G 44531630.61 44531630.74 44531630.87 0.0535 0.0167

Uranus 117211-06-18 05:44 G 44531666.64 44531666.74 44531666.85 0.0139 0.0113

Jupiter 117211-08-10 16:03 G 44531720.15 44531720.17 44531720.18 0.0532 0.0527

Uranus 117211-09-14 12:27 G 44531755.01 44531755.02 44531755.03 0.0139 0.0138

Venus 117211-12-09 18:56 G 44531841.27 44531841.29 44531841.31 0.3663 0.3607

Earth 117212-03-08 18:12 G 44531931.14 44531931.26 44531931.38 0.2667 0.1594

Moon 117212-03-08 18:12 G 44531931.15 44531931.26 44531931.37 0.2674 0.1697 *

Mars 117212-03-14 17:58 G 44531937.11 44531937.25 44531937.39 0.1654 0.0808

Neptune 117213-05-20 11:44 G 44532368.95 44532368.99 44532369.05 0.0089 0.0085

Neptune 117213-08-16 14:51 G 44532457.03 44532457.12 44532457.21 0.0089 0.0077

Neptune 117213-11-12 17:29 G 44532545.13 44532545.23 44532545.36 0.0089 0.0068

Neptune 117214-02-08 20:36 G 44532633.23 44532633.36 44532633.50 0.0089 0.0059

Neptune 117214-05-07 23:29 G 44532721.34 44532721.48 44532721.64 0.0089 0.0051

Neptune 117214-08-04 02:36 G 44532809.46 44532809.61 44532809.77 0.0089 0.0042

Neptune 117214-10-31 05:44 G 44532897.57 44532897.74 44532897.91 0.0089 0.0033

Neptune 117215-01-27 08:51 G 44532985.69 44532985.87 44532986.04 0.0089 0.0024

Neptune 117215-04-25 11:44 G 44533073.82 44533073.99 44533074.17 0.0089 0.0015

Neptune 117215-07-22 14:51 G 44533161.94 44533162.12 44533162.30 0.0089 0.0006

Neptune 117215-10-18 17:58 G 44533250.07 44533250.25 44533250.43 0.0089 0.0003

Neptune 117216-01-14 21:05 G 44533338.20 44533338.38 44533338.56 0.0089 0.0012

Neptune 117216-04-12 00:12 G 44533426.33 44533426.51 44533426.68 0.0089 0.0022

Neptune 117216-07-09 02:51 G 44533514.47 44533514.62 44533514.81 0.0089 0.0032

Moon 117216-08-29 17:15 G 44533566.19 44533566.22 44533566.26 0.2667 0.2534

Earth 117216-08-29 17:58 G 44533566.20 44533566.25 44533566.31 0.2670 0.2341 *

Neptune 117216-10-05 05:58 G 44533602.60 44533602.75 44533602.93 0.0089 0.0041

Neptune 117217-01-01 09:05 G 44533690.74 44533690.88 44533691.05 0.0089 0.0050

Neptune 117217-03-30 12:27 G 44533778.89 44533779.02 44533779.16 0.0089 0.0058

Venus 117217-06-24 22:03 G 44533865.28 44533865.42 44533865.56 0.3667 0.0148

Neptune 117217-06-26 15:34 G 44533867.04 44533867.15 44533867.28 0.0089 0.0068

Jupiter 117217-09-21 09:20 G 44533953.73 44533953.89 44533954.05 0.0494 0.0156

Neptune 117217-09-22 18:27 G 44533955.20 44533955.27 44533955.38 0.0089 0.0077

Neptune 117217-12-19 21:34 G 44534043.38 44534043.40 44534043.47 0.0089 0.0087

Mars 117221-08-04 19:24 G 44535367.16 44535367.31 44535367.47 0.1648 0.0420

Saturn 117222-03-13 17:29 G 44535588.15 44535588.23 44535588.31 0.0282 0.0224

Saturn 117222-06-10 06:27 G 44535676.64 44535676.77 44535676.91 0.0282 0.0063

Mars 117222-06-15 14:51 G 44535682.10 44535682.12 44535682.15 0.1879 0.1822

Saturn 117222-09-06 19:10 G 44535765.17 44535765.30 44535765.44 0.0283 0.0097

Saturn 117222-12-04 07:53 G 44535853.77 44535853.83 44535853.89 0.0283 0.0254

Venus 117223-01-09 01:53 G 44535889.55 44535889.58 44535889.61 0.3672 0.3575

Jupiter 117223-03-01 08:22 G 44535940.75 44535940.85 44535940.96 0.0536 0.0346

Jupiter 117223-05-29 19:24 G 44536030.21 44536030.31 44536030.40 0.0533 0.0362

Jupiter 117229-07-10 08:08 G 44538263.67 44538263.84 44538264.01 0.0493 0.0035

Moon 117229-09-01 12:12 G 44538316.90 44538317.01 44538317.12 0.2672 0.0560

Earth 117229-09-01 12:41 G 44538316.92 44538317.03 44538317.15 0.2668 0.0523 *

Mars 117230-12-25 21:34 G 44538797.36 44538797.40 44538797.44 0.1642 0.1592

Mars 117231-11-05 23:00 G 44539112.36 44539112.46 44539112.57 0.1887 0.0696

Jupiter 117234-12-18 11:44 G 44540250.95 44540250.99 44540251.02 0.0537 0.0518

Jupiter 117235-03-17 23:00 G 44540340.33 44540340.46 44540340.58 0.0534 0.0200

Saturn 117236-07-02 09:34 G 44540812.83 44540812.90 44540812.99 0.0277 0.0242

Saturn 117236-09-29 04:32 G 44540901.52 44540901.69 44540901.86 0.0276 0.0058

Saturn 117236-12-26 23:44 G 44540990.34 44540990.49 44540990.65 0.0276 0.0128

Mars 117241-03-28 07:10 G 44542542.69 44542542.80 44542542.91 0.1895 0.0463

Jupiter 117241-04-28 08:08 G 44542573.68 44542573.84 44542573.99 0.0493 0.0207

Earth 117242-09-04 07:10 G 44543067.71 44543067.80 44543067.90 0.2666 0.1266

Moon 117242-09-04 07:39 G 44543067.72 44543067.82 44543067.92 0.2672 0.1257 *

Earth 117245-03-06 20:36 G 44543982.22 44543982.36 44543982.50 0.2665 0.0874

Moon 117245-03-06 21:34 G 44543982.26 44543982.40 44543982.54 0.2671 0.0785 *

Jupiter 117247-01-04 02:08 G 44544650.45 44544650.59 44544650.72 0.0534 0.0030

Venus 117250-05-19 00:41 G 44545881.45 44545881.53 44545881.61 0.3713 0.2361

Mars 117250-08-18 15:05 G 44545973.08 44545973.13 44545973.19 0.1902 0.1657

Mars 117251-09-13 18:27 G 44546364.14 44546364.27 44546364.40 0.1654 0.0974

Saturn 117251-10-28 07:24 G 44546408.68 44546408.81 44546408.93 0.0283 0.0121

Saturn 117252-01-24 20:08 G 44546497.21 44546497.34 44546497.48 0.0283 0.0041

Uranus 117252-04-20 13:10 G 44546584.00 44546584.05 44546584.12 0.0139 0.0126

Saturn 117252-04-22 08:51 G 44546585.78 44546585.87 44546585.97 0.0283 0.0198

Uranus 117252-07-17 17:15 G 44546672.13 44546672.22 44546672.32 0.0139 0.0106

Uranus 117252-10-13 21:20 G 44546760.28 44546760.39 44546760.50 0.0139 0.0086

Uranus 117253-01-10 01:10 G 44546848.43 44546848.55 44546848.68 0.0139 0.0066

Jupiter 117253-02-14 07:53 G 44546883.73 44546883.83 44546883.94 0.0493 0.0379

Uranus 117253-04-08 05:15 G 44546936.59 44546936.72 44546936.86 0.0139 0.0046

Jupiter 117253-05-15 07:53 G 44546973.71 44546973.83 44546973.96 0.0495 0.0338

Uranus 117253-07-05 09:05 G 44547024.75 44547024.88 44547025.03 0.0139 0.0026

Uranus 117253-10-01 13:10 G 44547112.91 44547113.05 44547113.19 0.0139 0.0006

Uranus 117253-12-28 17:00 G 44547201.07 44547201.21 44547201.35 0.0139 0.0014

Uranus 117254-03-26 20:51 G 44547289.24 44547289.37 44547289.51 0.0139 0.0034

Uranus 117254-06-23 00:41 G 44547377.40 44547377.53 44547377.66 0.0139 0.0053

Uranus 117254-09-19 04:32 G 44547465.57 44547465.69 44547465.81 0.0139 0.0073

Uranus 117254-12-16 08:22 G 44547553.75 44547553.85 44547553.96 0.0139 0.0092

Uranus 117255-03-14 12:12 G 44547641.93 44547642.01 44547642.09 0.0139 0.0112

Uranus 117255-06-10 16:03 G 44547730.13 44547730.17 44547730.22 0.0139 0.0131

Venus 117255-12-02 17:58 G 44547905.14 44547905.25 44547905.36 0.3709 0.0548

Earth 117258-03-10 00:27 G 44548733.44 44548733.52 44548733.60 0.2668 0.2215

Moon 117258-03-10 01:53 G 44548733.52 44548733.58 44548733.63 0.2666 0.2464 *

Jupiter 117258-10-23 04:46 G 44548960.57 44548960.70 44548960.83 0.0535 0.0152

Mars 117261-02-02 20:08 G 44549794.18 44549794.34 44549794.50 0.1649 0.0245

Venus 117261-06-17 11:00 G 44549928.86 44549928.96 44549929.06 0.3705 0.1198

Moon 117262-08-30 22:46 G 44550368.37 44550368.45 44550368.52 0.2675 0.1999

Earth 117262-08-30 23:00 G 44550368.38 44550368.46 44550368.54 0.2669 0.1953 *

Jupiter 117265-03-03 07:39 G 44551283.66 44551283.82 44551283.98 0.0494 0.0159

Saturn 117266-02-16 04:17 G 44551633.53 44551633.68 44551633.85 0.0276 0.0112

Saturn 117266-05-15 23:44 G 44551722.32 44551722.49 44551722.65 0.0276 0.0076

Saturn 117266-08-12 19:10 G 44551811.25 44551811.30 44551811.35 0.0276 0.0264

Venus 117267-01-01 03:48 G 44551952.60 44551952.66 44551952.73 0.3702 0.2890

Venus 117268-07-15 19:24 G 44552514.21 44552514.31 44552514.41 0.3664 0.2542

Mars 117270-06-25 22:03 G 44553224.35 44553224.42 44553224.50 0.1643 0.1422

Jupiter 117270-08-11 06:41 G 44553270.68 44553270.78 44553270.88 0.0536 0.0351

Jupiter 117270-11-08 17:29 G 44553360.13 44553360.23 44553360.33 0.0533 0.0356

Mars 117271-05-06 23:00 G 44553539.36 44553539.46 44553539.57 0.1887 0.0830

Venus 117274-01-29 22:46 G 44554538.31 44554538.45 44554538.58 0.3669 0.0989

Earth 117275-09-02 17:44 G 44555119.12 44555119.24 44555119.35 0.2667 0.0147

Moon 117275-09-02 18:27 G 44555119.15 44555119.27 44555119.38 0.2671 0.0106 *

Jupiter 117276-12-20 07:10 G 44555593.62 44555593.80 44555593.97 0.0493 0.0026

Mars 117280-09-26 07:10 G 44556969.69 44556969.80 44556969.92 0.1894 0.0331

Saturn 117281-03-16 11:00 G 44557140.84 44557140.96 44557141.08 0.0282 0.0145

Saturn 117281-06-12 23:58 G 44557229.36 44557229.50 44557229.64 0.0283 0.0016

Saturn 117281-09-09 12:41 G 44557317.92 44557318.03 44557318.14 0.0283 0.0174

Jupiter 117282-05-30 09:20 G 44557580.88 44557580.89 44557580.90 0.0537 0.0534

Jupiter 117282-08-27 20:36 G 44557670.23 44557670.36 44557670.49 0.0534 0.0185

Earth 117288-09-04 12:12 G 44559869.92 44559870.01 44559870.10 0.2665 0.1636

Moon 117288-09-04 12:56 G 44559869.95 44559870.04 44559870.12 0.2662 0.1751 *

Jupiter 117288-10-08 05:58 G 44559903.60 44559903.75 44559903.90 0.0493 0.0209

Mars 117290-02-16 15:05 G 44560400.06 44560400.13 44560400.20 0.1902 0.1530

Earth 117291-03-08 02:51 G 44560784.47 44560784.62 44560784.76 0.2666 0.0277

Moon 117291-03-08 03:48 G 44560784.51 44560784.66 44560784.81 0.2662 0.0046 *

Mars 117291-03-14 19:10 G 44560791.19 44560791.30 44560791.42 0.1655 0.1161

Uranus 117293-02-05 20:51 G 44561485.31 44561485.37 44561485.46 0.0139 0.0127

Uranus 117293-05-05 03:05 G 44561573.53 44561573.63 44561573.76 0.0139 0.0103

Uranus 117293-08-01 09:34 G 44561661.76 44561661.90 44561662.05 0.0139 0.0078

Uranus 117293-10-28 15:48 G 44561750.01 44561750.16 44561750.33 0.0139 0.0054

Neptune 117293-12-21 03:05 G 44561803.60 44561803.63 44561803.67 0.0088 0.0085

Uranus 117294-01-24 22:17 G 44561838.26 44561838.43 44561838.60 0.0139 0.0029

Neptune 117294-03-19 04:32 G 44561891.64 44561891.69 44561891.77 0.0088 0.0079

Uranus 117294-04-23 04:46 G 44561926.52 44561926.70 44561926.87 0.0139 0.0005

Neptune 117294-06-15 06:12 G 44561979.69 44561979.76 44561979.85 0.0088 0.0071

Jupiter 117294-06-15 23:58 G 44561980.37 44561980.50 44561980.64 0.0535 0.0026

Uranus 117294-07-20 11:15 G 44562014.79 44562014.97 44562015.14 0.0139 0.0020

Neptune 117294-09-11 07:53 G 44562067.74 44562067.83 44562067.94 0.0088 0.0064

Uranus 117294-10-16 17:29 G 44562103.07 44562103.23 44562103.40 0.0139 0.0045

Neptune 117294-12-08 09:34 G 44562155.80 44562155.90 44562156.01 0.0088 0.0057

Uranus 117295-01-12 23:58 G 44562191.35 44562191.50 44562191.66 0.0139 0.0070

Neptune 117295-03-06 11:15 G 44562243.86 44562243.97 44562244.09 0.0088 0.0050

Uranus 117295-04-11 06:27 G 44562279.65 44562279.77 44562279.91 0.0139 0.0095

Neptune 117295-06-02 12:41 G 44562331.92 44562332.03 44562332.16 0.0088 0.0044

Saturn 117295-07-06 05:15 G 44562365.58 44562365.72 44562365.86 0.0277 0.0156

Uranus 117295-07-08 13:10 G 44562367.96 44562368.05 44562368.14 0.0139 0.0120

Neptune 117295-08-29 14:22 G 44562419.98 44562420.10 44562420.23 0.0088 0.0036

Saturn 117295-10-03 00:12 G 44562454.34 44562454.51 44562454.68 0.0276 0.0029

Neptune 117295-11-25 16:03 G 44562508.04 44562508.17 44562508.30 0.0088 0.0029

Saturn 117295-12-30 19:24 G 44562543.21 44562543.31 44562543.42 0.0276 0.0217

Neptune 117296-02-21 17:29 G 44562596.10 44562596.23 44562596.37 0.0088 0.0023

Neptune 117296-05-19 19:10 G 44562684.16 44562684.30 44562684.44 0.0088 0.0016

Neptune 117296-08-15 20:36 G 44562772.23 44562772.36 44562772.51 0.0088 0.0010

Neptune 117296-11-11 22:17 G 44562860.29 44562860.43 44562860.57 0.0088 0.0002

Neptune 117297-02-07 23:44 G 44562948.35 44562948.49 44562948.63 0.0088 0.0005

Neptune 117297-05-07 01:24 G 44563036.42 44563036.56 44563036.70 0.0088 0.0012

Neptune 117297-08-03 02:51 G 44563124.48 44563124.62 44563124.76 0.0088 0.0018

Neptune 117297-10-30 04:17 G 44563212.55 44563212.68 44563212.82 0.0088 0.0025

Neptune 117298-01-26 05:44 G 44563300.62 44563300.74 44563300.88 0.0088 0.0032

Neptune 117298-04-24 07:24 G 44563388.68 44563388.81 44563388.93 0.0088 0.0038

Neptune 117298-07-21 08:36 G 44563476.75 44563476.86 44563476.99 0.0088 0.0046

Neptune 117298-10-17 10:03 G 44563564.82 44563564.92 44563565.05 0.0088 0.0052

Neptune 117299-01-13 11:44 G 44563652.89 44563652.99 44563653.10 0.0088 0.0058

Neptune 117299-04-11 13:10 G 44563740.96 44563741.05 44563741.15 0.0088 0.0065

Neptune 117299-07-08 14:51 G 44563829.04 44563829.12 44563829.20 0.0088 0.0071

Neptune 117299-10-04 16:03 G 44563917.12 44563917.17 44563917.24 0.0088 0.0078

Neptune 117299-12-31 17:44 G 44564005.21 44564005.24 44564005.28 0.0088 0.0084

Jupiter 117300-07-28 05:44 G 44564213.64 44564213.74 44564213.85 0.0492 0.0382

Mars 117300-08-04 20:51 G 44564221.21 44564221.37 44564221.53 0.1648 0.0067

Jupiter 117300-10-26 05:44 G 44564303.62 44564303.74 44564303.87 0.0495 0.0333

Venus 117301-06-10 05:15 G 44564530.70 44564530.72 44564530.74 0.3715 0.3624

Jupiter 117306-04-05 03:05 G 44566290.50 44566290.63 44566290.76 0.0535 0.0155

Venus 117306-12-24 22:32 G 44566554.35 44566554.44 44566554.54 0.3712 0.1773

Earth 117308-09-01 04:03 G 44567170.58 44567170.67 44567170.76 0.2669 0.1575

Moon 117308-09-01 04:46 G 44567170.60 44567170.70 44567170.80 0.2669 0.1374 *

Mars 117309-12-25 22:46 G 44567651.34 44567651.45 44567651.55 0.1643 0.1260

Saturn 117310-08-04 11:44 G 44567872.90 44567872.99 44567873.09 0.0282 0.0203

Saturn 117310-11-01 00:56 G 44567961.40 44567961.54 44567961.68 0.0283 0.0041

Mars 117310-11-05 23:15 G 44567966.37 44567966.47 44567966.57 0.1887 0.0980

Saturn 117311-01-28 13:39 G 44568049.95 44568050.07 44568050.20 0.0283 0.0119

Saturn 117311-04-27 02:22 G 44568138.57 44568138.60 44568138.63 0.0284 0.0276

Venus 117312-07-09 15:48 G 44568578.05 44568578.16 44568578.27 0.3708 0.0089

Jupiter 117312-08-14 05:15 G 44568613.56 44568613.72 44568613.89 0.0494 0.0153

Jupiter 117318-01-22 05:44 G 44570600.64 44570600.74 44570600.85 0.0536 0.0337

Venus 117318-01-23 08:51 G 44570601.77 44570601.87 44570601.96 0.3704 0.1755

Jupiter 117318-04-21 16:32 G 44570690.10 44570690.19 44570690.29 0.0533 0.0369

Mars 117320-03-28 07:10 G 44571396.69 44571396.80 44571396.92 0.1894 0.0203

Earth 117321-09-03 22:32 G 44571921.33 44571921.44 44571921.56 0.2667 0.0260

Moon 117321-09-03 23:00 G 44571921.35 44571921.46 44571921.58 0.2662 0.0256 *

Venus 117323-08-09 01:39 G 44572625.53 44572625.57 44572625.60 0.3701 0.3432

Earth 117324-03-06 05:29 G 44572835.73 44572835.73 44572835.73 0.2664 0.2663

Jupiter 117324-06-02 05:15 G 44572923.55 44572923.72 44572923.89 0.0494 0.0023

Saturn 117324-11-23 05:00 G 44573097.60 44573097.71 44573097.82 0.0277 0.0209

Saturn 117325-02-19 23:58 G 44573186.33 44573186.50 44573186.68 0.0276 0.0025

Venus 117325-02-20 20:08 G 44573187.21 44573187.34 44573187.47 0.3665 0.1458

Saturn 117325-05-19 19:10 G 44573275.17 44573275.30 44573275.45 0.0276 0.0163

Pluto 117328-10-19 08:22 G 44574523.84 44574523.85 44574523.89 0.0059 0.0059

Pluto 117329-01-15 10:03 G 44574611.82 44574611.92 44574612.03 0.0059 0.0050

Pluto 117329-04-13 11:00 G 44574699.84 44574699.96 44574700.12 0.0059 0.0041

Pluto 117329-07-10 12:27 G 44574787.87 44574788.02 44574788.20 0.0059 0.0032

Mars 117329-08-18 15:05 G 44574827.05 44574827.13 44574827.21 0.1901 0.1388

Pluto 117329-10-06 13:53 G 44574875.91 44574876.08 44574876.27 0.0059 0.0024

Pluto 117330-01-02 15:20 G 44574963.96 44574964.14 44574964.34 0.0059 0.0015

Jupiter 117330-02-07 18:56 G 44575000.16 44575000.29 44575000.41 0.0534 0.0180

Pluto 117330-03-31 16:46 G 44575052.01 44575052.20 44575052.40 0.0059 0.0006

Pluto 117330-06-27 18:12 G 44575140.07 44575140.26 44575140.46 0.0059 0.0004

Venus 117330-09-06 23:29 G 44575211.37 44575211.48 44575211.59 0.3670 0.2144

Mars 117330-09-13 19:53 G 44575218.24 44575218.33 44575218.43 0.1655 0.1343

Pluto 117330-09-23 19:24 G 44575228.13 44575228.31 44575228.52 0.0060 0.0013

Pluto 117330-12-20 20:51 G 44575316.20 44575316.37 44575316.57 0.0060 0.0022

Pluto 117331-03-18 22:03 G 44575404.27 44575404.42 44575404.61 0.0060 0.0031

Pluto 117331-06-14 23:29 G 44575492.35 44575492.48 44575492.64 0.0060 0.0040

Pluto 117331-09-11 00:41 G 44575580.44 44575580.53 44575580.67 0.0060 0.0049

Pluto 117331-12-08 02:08 G 44575668.57 44575668.59 44575668.66 0.0060 0.0058

Moon 117334-09-06 16:46 G 44576672.12 44576672.20 44576672.27 0.2659 0.1993

Earth 117334-09-06 17:15 G 44576672.14 44576672.22 44576672.29 0.2665 0.2010 *

Jupiter 117336-03-21 04:46 G 44577233.55 44577233.70 44577233.86 0.0493 0.0199

Uranus 117336-05-11 20:22 G 44577285.29 44577285.35 44577285.43 0.0139 0.0121

Uranus 117336-08-08 00:27 G 44577373.43 44577373.52 44577373.63 0.0139 0.0101

Uranus 117336-11-04 04:32 G 44577461.58 44577461.69 44577461.81 0.0139 0.0080

Uranus 117337-01-31 08:36 G 44577549.73 44577549.86 44577549.99 0.0139 0.0060

Moon 117337-03-09 07:39 G 44577586.67 44577586.82 44577586.97 0.2662 0.0244

Earth 117337-03-09 08:51 G 44577586.73 44577586.87 44577587.02 0.2666 0.0344 *

Uranus 117337-04-29 12:27 G 44577637.89 44577638.02 44577638.16 0.0139 0.0041

Uranus 117337-07-26 16:32 G 44577726.05 44577726.19 44577726.33 0.0139 0.0020

Uranus 117337-10-22 20:22 G 44577814.21 44577814.35 44577814.49 0.0139 0.0003

Uranus 117338-01-19 00:12 G 44577902.37 44577902.51 44577902.65 0.0139 0.0020

Uranus 117338-04-17 04:03 G 44577990.54 44577990.67 44577990.81 0.0139 0.0039

Uranus 117338-07-14 08:08 G 44578078.71 44578078.84 44578078.96 0.0139 0.0059

Uranus 117338-10-10 11:44 G 44578166.88 44578166.99 44578167.11 0.0139 0.0078

Uranus 117339-01-06 15:34 G 44578255.06 44578255.15 44578255.25 0.0139 0.0098

Uranus 117339-04-04 19:10 G 44578343.24 44578343.30 44578343.39 0.0139 0.0118

Uranus 117339-07-01 23:00 G 44578431.45 44578431.46 44578431.50 0.0139 0.0137

Saturn 117339-12-22 15:34 G 44578605.07 44578605.15 44578605.24 0.0282 0.0226

Mars 117340-02-03 21:34 G 44578648.23 44578648.40 44578648.56 0.1649 0.0112

Saturn 117340-03-20 04:46 G 44578693.56 44578693.70 44578693.83 0.0283 0.0065

Saturn 117340-06-16 17:29 G 44578782.10 44578782.23 44578782.36 0.0283 0.0095

Saturn 117340-09-13 06:12 G 44578870.70 44578870.76 44578870.82 0.0283 0.0253

Jupiter 117341-11-26 21:48 G 44579310.27 44579310.41 44579310.54 0.0535 0.0009

Jupiter 117348-01-08 03:48 G 44581543.56 44581543.66 44581543.76 0.0492 0.0385

Jupiter 117348-04-07 03:20 G 44581633.52 44581633.64 44581633.78 0.0495 0.0328

Mars 117349-06-25 23:29 G 44582078.36 44582078.48 44582078.60 0.1643 0.1078

Mars 117350-05-06 23:15 G 44582393.37 44582393.47 44582393.56 0.1886 0.1096

Jupiter 117353-09-15 00:56 G 44583620.42 44583620.54 44583620.67 0.0536 0.0167

Jupiter 117353-12-13 11:29 G 44583709.97 44583709.98 44583709.99 0.0532 0.0529

Saturn 117354-04-12 06:27 G 44583829.70 44583829.77 44583829.85 0.0277 0.0247

Saturn 117354-07-10 01:10 G 44583918.39 44583918.55 44583918.72 0.0276 0.0064

Moon 117354-09-02 09:05 G 44583972.77 44583972.88 44583972.98 0.2662 0.1142

Earth 117354-09-02 08:51 G 44583972.77 44583972.87 44583972.98 0.2669 0.1191 *

Saturn 117354-10-06 20:22 G 44584007.20 44584007.35 44584007.51 0.0276 0.0122

Venus 117358-01-15 03:05 G 44585203.57 44585203.63 44585203.69 0.3715 0.3019

Mars 117359-09-27 07:24 G 44585823.69 44585823.81 44585823.92 0.1894 0.0069

Jupiter 117360-01-25 02:51 G 44585943.46 44585943.62 44585943.79 0.0494 0.0147

Venus 117363-07-31 20:36 G 44587227.25 44587227.36 44587227.46 0.3711 0.1193

Jupiter 117365-07-04 04:03 G 44587930.57 44587930.67 44587930.77 0.0536 0.0342

Jupiter 117365-10-01 14:51 G 44588020.02 44588020.12 44588020.22 0.0533 0.0364

Moon 117367-09-05 02:51 G 44588723.51 44588723.62 44588723.73 0.2664 0.0451

Earth 117367-09-05 03:34 G 44588723.54 44588723.65 44588723.76 0.2667 0.0616 *

Venus 117369-02-13 13:39 G 44589250.96 44589251.07 44589251.18 0.3707 0.0589

Mars 117369-02-16 15:20 G 44589254.05 44589254.14 44589254.23 0.1901 0.1240

Saturn 117369-05-10 16:32 G 44589337.19 44589337.19 44589337.20 0.0282 0.0282

Saturn 117369-08-07 05:44 G 44589425.61 44589425.74 44589425.87 0.0283 0.0119

Saturn 117369-11-03 18:41 G 44589514.14 44589514.28 44589514.42 0.0283 0.0041

Saturn 117370-01-31 07:24 G 44589602.71 44589602.81 44589602.91 0.0283 0.0200

Moon 117370-03-07 10:03 G 44589637.85 44589637.92 44589638.00 0.2664 0.2294

Earth 117370-03-07 11:29 G 44589637.89 44589637.98 44589638.07 0.2664 0.2075 *

Mars 117370-03-14 20:22 G 44589645.29 44589645.35 44589645.42 0.1655 0.1514

Jupiter 117371-11-13 02:36 G 44590253.44 44590253.61 44590253.78 0.0494 0.0031

Venus 117374-08-30 06:41 G 44591274.69 44591274.78 44591274.86 0.3703 0.2309

Uranus 117377-02-27 04:17 G 44592186.60 44592186.68 44592186.78 0.0139 0.0120

Jupiter 117377-04-22 06:27 G 44592240.75 44592240.77 44592240.80 0.0537 0.0527

Uranus 117377-05-26 10:32 G 44592274.82 44592274.94 44592275.07 0.0139 0.0096

Jupiter 117377-07-20 17:58 G 44592330.12 44592330.25 44592330.37 0.0534 0.0192

Uranus 117377-08-22 16:46 G 44592363.06 44592363.20 44592363.36 0.0139 0.0072

Uranus 117377-11-18 23:00 G 44592451.31 44592451.46 44592451.64 0.0139 0.0048

Uranus 117378-02-15 05:29 G 44592539.56 44592539.73 44592539.91 0.0139 0.0023

Neptune 117378-02-15 10:03 G 44592539.87 44592539.92 44592540.00 0.0089 0.0082 *

Uranus 117378-05-14 11:58 G 44592627.83 44592628.00 44592628.18 0.0139 0.0003

Neptune 117378-05-14 12:56 G 44592627.96 44592628.04 44592628.16 0.0089 0.0074 *

Neptune 117378-08-10 16:03 G 44592716.06 44592716.17 44592716.30 0.0089 0.0065

Uranus 117378-08-10 18:27 G 44592716.10 44592716.27 44592716.44 0.0139 0.0027 *

Neptune 117378-11-06 19:10 G 44592804.16 44592804.30 44592804.44 0.0089 0.0056

Uranus 117378-11-07 00:41 G 44592804.37 44592804.53 44592804.70 0.0139 0.0052 *

Neptune 117379-02-02 21:48 G 44592892.28 44592892.41 44592892.58 0.0089 0.0048

Uranus 117379-02-03 07:10 G 44592892.66 44592892.80 44592892.96 0.0139 0.0077

Neptune 117379-05-02 00:56 G 44592980.39 44592980.54 44592980.71 0.0089 0.0038

Uranus 117379-05-02 13:39 G 44592980.96 44592981.07 44592981.20 0.0139 0.0102

Neptune 117379-07-29 04:03 G 44593068.51 44593068.67 44593068.85 0.0089 0.0029

Uranus 117379-07-29 20:22 G 44593069.29 44593069.35 44593069.43 0.0139 0.0127

Mars 117379-08-04 22:03 G 44593075.26 44593075.42 44593075.58 0.1649 0.0284

Neptune 117379-10-25 07:10 G 44593156.63 44593156.80 44593156.98 0.0089 0.0020

Neptune 117380-01-21 10:17 G 44593244.75 44593244.93 44593245.11 0.0089 0.0011

Neptune 117380-04-18 13:10 G 44593332.87 44593333.05 44593333.23 0.0089 0.0003

Neptune 117380-07-15 16:17 G 44593421.00 44593421.18 44593421.36 0.0089 0.0007

Moon 117380-09-06 21:34 G 44593474.35 44593474.40 44593474.46 0.2669 0.2320

Earth 117380-09-06 22:03 G 44593474.38 44593474.42 44593474.47 0.2665 0.2381 *

Neptune 117380-10-11 19:10 G 44593509.13 44593509.30 44593509.49 0.0089 0.0016

Neptune 117381-01-07 22:17 G 44593597.26 44593597.43 44593597.61 0.0089 0.0025

Neptune 117381-04-06 01:24 G 44593685.40 44593685.56 44593685.73 0.0089 0.0034

Neptune 117381-07-03 04:32 G 44593773.54 44593773.69 44593773.85 0.0089 0.0043

Venus 117381-09-27 20:36 G 44593860.22 44593860.36 44593860.50 0.3666 0.0361

Neptune 117381-09-29 07:39 G 44593861.68 44593861.82 44593861.97 0.0089 0.0052

Neptune 117381-12-26 10:46 G 44593949.83 44593949.95 44593950.09 0.0089 0.0062

Neptune 117382-03-24 13:39 G 44594037.98 44594038.07 44594038.20 0.0089 0.0071

Neptune 117382-06-20 16:46 G 44594126.14 44594126.20 44594126.30 0.0089 0.0081

Moon 117383-03-10 14:08 G 44594388.95 44594389.09 44594389.23 0.2671 0.0782

Earth 117383-03-10 15:05 G 44594388.99 44594389.13 44594389.27 0.2666 0.0956 *

Jupiter 117383-09-01 02:36 G 44594563.46 44594563.61 44594563.77 0.0493 0.0202

Saturn 117383-11-27 00:56 G 44594650.38 44594650.54 44594650.69 0.0276 0.0119

Saturn 117384-02-23 19:53 G 44594739.17 44594739.33 44594739.50 0.0276 0.0067

Saturn 117384-05-22 15:05 G 44594828.08 44594828.13 44594828.21 0.0276 0.0255

Venus 117387-04-14 00:12 G 44595884.46 44595884.51 44595884.57 0.3671 0.3319

Moon 117387-08-31 18:41 G 44596024.27 44596024.28 44596024.29 0.2664 0.2646

Earth 117387-08-31 19:10 G 44596024.29 44596024.30 44596024.31 0.2670 0.2641 *

Mars 117388-12-24 23:58 G 44596505.37 44596505.50 44596505.64 0.1643 0.0908

Jupiter 117389-05-08 19:53 G 44596640.20 44596640.33 44596640.47 0.0534 0.0008

Mars 117389-11-04 23:15 G 44596820.38 44596820.47 44596820.56 0.1886 0.1237

Jupiter 117395-06-20 02:22 G 44598873.50 44598873.60 44598873.71 0.0492 0.0376

Jupiter 117395-09-18 02:08 G 44598963.47 44598963.59 44598963.72 0.0495 0.0337

Saturn 117398-12-25 09:20 G 44600157.77 44600157.89 44600158.01 0.0283 0.0145

Saturn 117399-03-23 22:17 G 44600246.29 44600246.43 44600246.57 0.0283 0.0016

Mars 117399-03-28 07:24 G 44600250.69 44600250.81 44600250.93 0.1893 0.0087

Saturn 117399-06-20 11:00 G 44600334.86 44600334.96 44600335.07 0.0283 0.0175

Moon 117400-09-03 13:10 G 44600774.94 44600775.05 44600775.16 0.2670 0.0973

Earth 117400-09-03 13:53 G 44600774.97 44600775.08 44600775.19 0.2668 0.0800 *

Jupiter 117401-02-25 22:32 G 44600950.32 44600950.44 44600950.57 0.0535 0.0183

Jupiter 117401-05-26 09:05 G 44601039.85 44601039.88 44601039.91 0.0532 0.0514

Jupiter 117407-07-08 00:41 G 44603273.36 44603273.53 44603273.69 0.0494 0.0141

Mars 117408-08-18 15:05 G 44603681.04 44603681.13 44603681.23 0.1901 0.1118

Jupiter 117412-12-15 01:39 G 44605260.47 44605260.57 44605260.68 0.0536 0.0357

Jupiter 117413-03-14 12:41 G 44605349.93 44605350.03 44605350.13 0.0533 0.0353

Saturn 117413-04-16 02:51 G 44605382.48 44605382.62 44605382.76 0.0277 0.0152

Saturn 117413-07-13 21:48 G 44605471.24 44605471.41 44605471.58 0.0276 0.0033

Moon 117413-09-06 08:08 G 44605525.74 44605525.84 44605525.95 0.2672 0.1010

Earth 117413-09-06 08:36 G 44605525.75 44605525.86 44605525.96 0.2666 0.0996 *

Saturn 117413-10-10 17:00 G 44605560.11 44605560.21 44605560.32 0.0276 0.0220

Venus 117414-08-23 01:10 G 44605876.47 44605876.55 44605876.63 0.3713 0.2417

Moon 117416-03-08 17:29 G 44606440.11 44606440.23 44606440.35 0.2671 0.1419

Earth 117416-03-08 17:44 G 44606440.12 44606440.24 44606440.36 0.2664 0.1488 *

Mars 117419-02-03 22:46 G 44607502.29 44607502.45 44607502.61 0.1649 0.0463

Jupiter 117419-04-26 00:12 G 44607583.34 44607583.51 44607583.68 0.0493 0.0038

Uranus 117420-03-05 23:44 G 44607898.46 44607898.49 44607898.51 0.0139 0.0136

Venus 117420-03-07 18:27 G 44607900.16 44607900.27 44607900.37 0.3710 0.0609

Uranus 117420-06-02 03:34 G 44607986.58 44607986.65 44607986.73 0.0139 0.0116

Uranus 117420-08-29 07:39 G 44608074.72 44608074.82 44608074.93 0.0139 0.0096

Uranus 117420-11-25 11:44 G 44608162.87 44608162.99 44608163.11 0.0139 0.0076

Uranus 117421-02-21 15:34 G 44608251.03 44608251.15 44608251.29 0.0139 0.0056

Uranus 117421-05-20 19:39 G 44608339.18 44608339.32 44608339.46 0.0139 0.0036

Uranus 117421-08-16 23:44 G 44608427.34 44608427.49 44608427.63 0.0139 0.0016

Uranus 117421-11-13 03:34 G 44608515.51 44608515.65 44608515.79 0.0139 0.0004

Uranus 117422-02-09 07:24 G 44608603.67 44608603.81 44608603.95 0.0139 0.0024

Uranus 117422-05-08 11:15 G 44608691.84 44608691.97 44608692.11 0.0139 0.0044

Uranus 117422-08-04 15:05 G 44608780.01 44608780.13 44608780.26 0.0139 0.0063

Uranus 117422-10-31 18:41 G 44608868.18 44608868.28 44608868.41 0.0139 0.0084

Uranus 117423-01-27 22:46 G 44608956.36 44608956.45 44608956.55 0.0139 0.0102

Uranus 117423-04-26 02:36 G 44609044.55 44609044.61 44609044.68 0.0139 0.0122

Jupiter 117424-10-03 04:32 G 44609570.69 44609570.69 44609570.71 0.0537 0.0534

Jupiter 117424-12-31 16:03 G 44609660.05 44609660.17 44609660.30 0.0534 0.0186

Pluto 117425-07-03 14:36 G 44609844.09 44609844.11 44609844.16 0.0085 0.0081

Venus 117425-09-21 11:29 G 44609923.88 44609923.98 44609924.08 0.3706 0.1152

Pluto 117425-09-29 16:03 G 44609932.09 44609932.17 44609932.26 0.0085 0.0063

Pluto 117425-12-26 17:15 G 44610020.11 44610020.22 44610020.34 0.0085 0.0046

Pluto 117426-03-24 18:41 G 44610108.15 44610108.28 44610108.40 0.0085 0.0028

Pluto 117426-06-20 19:53 G 44610196.20 44610196.33 44610196.46 0.0085 0.0011

Pluto 117426-09-16 21:05 G 44610284.25 44610284.38 44610284.51 0.0085 0.0007

Pluto 117426-12-13 22:03 G 44610372.30 44610372.42 44610372.56 0.0085 0.0025

Pluto 117427-03-11 23:15 G 44610460.37 44610460.47 44610460.59 0.0084 0.0042

Pluto 117427-06-08 00:27 G 44610548.44 44610548.52 44610548.62 0.0084 0.0059

Pluto 117427-09-04 01:39 G 44610636.52 44610636.57 44610636.64 0.0084 0.0076

Saturn 117428-05-14 10:17 G 44610889.84 44610889.93 44610890.04 0.0282 0.0199

Mars 117428-06-26 00:41 G 44610932.38 44610932.53 44610932.67 0.1643 0.0746

Saturn 117428-08-10 23:29 G 44610978.34 44610978.48 44610978.62 0.0283 0.0038

Saturn 117428-11-07 12:12 G 44611066.89 44611067.01 44611067.14 0.0283 0.0122

Saturn 117429-02-04 00:56 G 44611155.52 44611155.54 44611155.56 0.0284 0.0279

Earth 117429-03-11 21:05 G 44611191.26 44611191.38 44611191.50 0.2667 0.1561

Moon 117429-03-11 22:32 G 44611191.33 44611191.44 44611191.56 0.2669 0.1677 *

Mars 117429-05-06 23:15 G 44611247.40 44611247.47 44611247.55 0.1886 0.1380

Jupiter 117431-02-11 23:58 G 44611893.35 44611893.50 44611893.66 0.0493 0.0213

Venus 117431-04-07 04:17 G 44611947.62 44611947.68 44611947.75 0.3703 0.2855

Venus 117432-10-19 18:12 G 44612509.17 44612509.26 44612509.35 0.3663 0.2727

Moon 117433-09-01 23:29 G 44612826.42 44612826.48 44612826.53 0.2673 0.2308

Earth 117433-09-01 23:58 G 44612826.45 44612826.50 44612826.56 0.2670 0.2254 *

Jupiter 117436-10-19 18:56 G 44613970.16 44613970.29 44613970.43 0.0534 0.0016

Venus 117438-05-05 21:20 G 44614533.25 44614533.39 44614533.53 0.3668 0.0761

Mars 117438-09-27 07:24 G 44614677.69 44614677.81 44614677.93 0.1893 0.0217

Saturn 117442-09-03 02:08 G 44616114.49 44616114.59 44616114.71 0.0276 0.0210

Saturn 117442-11-30 21:05 G 44616203.21 44616203.38 44616203.55 0.0276 0.0026

Jupiter 117442-12-01 00:12 G 44616203.41 44616203.51 44616203.62 0.0492 0.0380 *

Saturn 117443-02-27 16:17 G 44616292.04 44616292.18 44616292.32 0.0276 0.0161

Jupiter 117443-02-28 23:58 G 44616293.38 44616293.50 44616293.63 0.0495 0.0334

Earth 117446-09-04 18:56 G 44617577.17 44617577.29 44617577.40 0.2668 0.0433

Moon 117446-09-04 18:56 G 44617577.18 44617577.29 44617577.40 0.2675 0.0462 *

Mars 117448-02-17 15:20 G 44618108.04 44618108.14 44618108.24 0.1901 0.0967

Jupiter 117448-08-07 21:05 G 44618280.25 44618280.38 44618280.50 0.0535 0.0185

Jupiter 117448-11-05 07:24 G 44618369.78 44618369.81 44618369.85 0.0532 0.0511

Jupiter 117454-12-17 23:15 G 44620603.31 44620603.47 44620603.64 0.0494 0.0151

Saturn 117457-10-01 13:39 G 44621621.99 44621622.07 44621622.16 0.0283 0.0228

Saturn 117457-12-29 02:51 G 44621710.49 44621710.62 44621710.76 0.0283 0.0065

Saturn 117458-03-27 15:48 G 44621799.03 44621799.16 44621799.29 0.0283 0.0095

Saturn 117458-06-24 04:32 G 44621887.63 44621887.69 44621887.75 0.0284 0.0253

Mars 117458-08-04 23:29 G 44621929.33 44621929.48 44621929.63 0.1649 0.0638

Neptune 117458-09-19 02:22 G 44621974.56 44621974.60 44621974.66 0.0088 0.0082

Neptune 117458-12-16 04:03 G 44622062.61 44622062.67 44622062.75 0.0088 0.0075

Neptune 117459-03-14 05:44 G 44622150.66 44622150.74 44622150.84 0.0088 0.0068

Neptune 117459-06-10 07:24 G 44622238.71 44622238.81 44622238.92 0.0088 0.0061

Neptune 117459-09-06 08:51 G 44622326.77 44622326.87 44622326.99 0.0088 0.0055

Earth 117459-09-07 13:24 G 44622327.97 44622328.06 44622328.16 0.2666 0.1367

Moon 117459-09-07 14:08 G 44622328.00 44622328.09 44622328.19 0.2666 0.1565 *

Neptune 117459-12-03 10:32 G 44622414.83 44622414.94 44622415.07 0.0088 0.0047

Neptune 117460-02-29 12:12 G 44622502.89 44622503.01 44622503.14 0.0088 0.0040

Jupiter 117460-05-26 23:29 G 44622590.38 44622590.48 44622590.58 0.0536 0.0370

Neptune 117460-05-27 13:53 G 44622590.95 44622591.08 44622591.21 0.0088 0.0033

Neptune 117460-08-23 15:34 G 44622679.01 44622679.15 44622679.28 0.0088 0.0026

Jupiter 117460-08-24 10:32 G 44622679.84 44622679.94 44622680.04 0.0533 0.0339

Neptune 117460-11-19 17:00 G 44622767.08 44622767.21 44622767.35 0.0088 0.0020

Uranus 117460-12-22 05:44 G 44622799.71 44622799.74 44622799.78 0.0139 0.0136

Neptune 117461-02-15 18:27 G 44622855.14 44622855.27 44622855.42 0.0088 0.0014

Uranus 117461-03-20 11:58 G 44622887.90 44622888.00 44622888.11 0.0139 0.0112

Neptune 117461-05-14 20:08 G 44622943.20 44622943.34 44622943.48 0.0088 0.0006

Uranus 117461-06-16 18:12 G 44622976.13 44622976.26 44622976.40 0.0139 0.0088

Neptune 117461-08-10 21:48 G 44623031.27 44623031.41 44623031.55 0.0088 0.0002

Uranus 117461-09-13 00:27 G 44623064.37 44623064.52 44623064.68 0.0139 0.0064

Neptune 117461-11-06 23:15 G 44623119.33 44623119.47 44623119.61 0.0088 0.0008

Uranus 117461-12-10 06:41 G 44623152.62 44623152.78 44623152.95 0.0139 0.0039

Neptune 117462-02-03 00:41 G 44623207.40 44623207.53 44623207.67 0.0088 0.0015

Uranus 117462-03-08 13:10 G 44623240.88 44623241.05 44623241.23 0.0139 0.0015

Earth 117462-03-09 23:44 G 44623242.35 44623242.49 44623242.63 0.2665 0.0896

Moon 117462-03-10 00:56 G 44623242.40 44623242.54 44623242.69 0.2664 0.0638 *

Neptune 117462-05-02 02:22 G 44623295.46 44623295.60 44623295.74 0.0088 0.0021

Uranus 117462-06-04 19:39 G 44623329.14 44623329.32 44623329.49 0.0139 0.0010

Neptune 117462-07-29 03:48 G 44623383.53 44623383.66 44623383.80 0.0088 0.0028

Uranus 117462-09-01 01:53 G 44623417.41 44623417.58 44623417.76 0.0139 0.0035

Neptune 117462-10-25 05:15 G 44623471.60 44623471.72 44623471.85 0.0088 0.0035

Uranus 117462-11-28 08:22 G 44623505.69 44623505.85 44623506.01 0.0139 0.0060

Neptune 117463-01-21 06:56 G 44623559.67 44623559.79 44623559.91 0.0088 0.0041

Uranus 117463-02-24 14:51 G 44623593.98 44623594.12 44623594.26 0.0139 0.0085

Neptune 117463-04-19 08:22 G 44623647.74 44623647.85 44623647.97 0.0088 0.0048

Uranus 117463-05-23 21:20 G 44623682.29 44623682.39 44623682.50 0.0139 0.0110

Neptune 117463-07-16 09:34 G 44623735.81 44623735.90 44623736.02 0.0088 0.0055

Uranus 117463-08-20 03:48 G 44623770.63 44623770.66 44623770.71 0.0139 0.0135

Neptune 117463-10-12 11:29 G 44623823.88 44623823.98 44623824.08 0.0088 0.0061

Neptune 117464-01-08 12:41 G 44623911.95 44623912.03 44623912.13 0.0088 0.0068

Neptune 117464-04-05 14:08 G 44624000.03 44624000.09 44624000.17 0.0088 0.0075

Neptune 117464-07-02 15:34 G 44624088.11 44624088.15 44624088.21 0.0088 0.0081

Neptune 117464-09-28 17:15 G 44624176.22 44624176.22 44624176.23 0.0088 0.0088

Venus 117465-09-13 05:44 G 44624525.72 44624525.74 44624525.75 0.3716 0.3679

Jupiter 117466-10-05 22:03 G 44624913.25 44624913.42 44624913.59 0.0493 0.0044

Mars 117467-12-26 01:24 G 44625359.41 44625359.56 44625359.71 0.1644 0.0561

Mars 117468-11-04 23:15 G 44625674.40 44625674.47 44625674.54 0.1886 0.1503

Venus 117471-03-29 23:00 G 44626549.37 44626549.46 44626549.56 0.3712 0.1823

Saturn 117472-01-21 04:17 G 44626846.61 44626846.68 44626846.77 0.0277 0.0240

Saturn 117472-04-18 23:15 G 44626935.30 44626935.47 44626935.64 0.0276 0.0056

Jupiter 117472-06-12 13:53 G 44626989.95 44626990.08 44626990.21 0.0534 0.0173

Saturn 117472-07-16 18:27 G 44627024.11 44627024.27 44627024.42 0.0276 0.0129

Earth 117475-03-13 03:20 G 44627993.56 44627993.64 44627993.72 0.2667 0.2176

Moon 117475-03-13 04:03 G 44627993.59 44627993.67 44627993.74 0.2661 0.2248 *

Venus 117476-10-12 16:17 G 44628573.07 44628573.18 44628573.29 0.3709 0.0034

Mars 117478-03-28 07:24 G 44629104.70 44629104.81 44629104.93 0.1893 0.0365

Jupiter 117478-07-24 21:48 G 44629223.26 44629223.41 44629223.56 0.0493 0.0218

Earth 117479-09-03 05:00 G 44629628.63 44629628.71 44629628.79 0.2670 0.1868

Moon 117479-09-03 05:29 G 44629628.65 44629628.73 44629628.82 0.2675 0.1782 *

Venus 117482-04-28 09:20 G 44630596.79 44630596.89 44630596.98 0.3705 0.1713

Jupiter 117484-03-31 17:15 G 44631300.08 44631300.22 44631300.35 0.0535 0.0012

Saturn 117487-02-18 14:51 G 44632354.11 44632354.12 44632354.14 0.0282 0.0280

Saturn 117487-05-18 04:03 G 44632442.55 44632442.67 44632442.80 0.0283 0.0118

Saturn 117487-08-14 17:00 G 44632531.07 44632531.21 44632531.35 0.0283 0.0043

Mars 117487-08-18 15:20 G 44632535.04 44632535.14 44632535.25 0.1900 0.0830

Saturn 117487-11-11 05:44 G 44632619.65 44632619.74 44632619.84 0.0283 0.0201

Venus 117487-11-12 02:08 G 44632620.55 44632620.59 44632620.63 0.3701 0.3398

Venus 117489-05-26 18:41 G 44633182.16 44633182.28 44633182.41 0.3664 0.1660

Jupiter 117490-05-12 21:48 G 44633533.31 44633533.41 44633533.51 0.0492 0.0389

Jupiter 117490-08-10 21:20 G 44633623.26 44633623.39 44633623.52 0.0495 0.0322

Earth 117492-09-04 23:44 G 44634379.38 44634379.49 44634379.61 0.2668 0.0074

Moon 117492-09-05 00:27 G 44634379.41 44634379.52 44634379.64 0.2665 0.0087 *

Venus 117494-12-10 21:48 G 44635206.29 44635206.41 44635206.54 0.3669 0.1888

Jupiter 117496-01-18 20:08 G 44635610.21 44635610.34 44635610.46 0.0535 0.0175

Jupiter 117496-04-17 06:27 G 44635699.75 44635699.77 44635699.80 0.0532 0.0522

Mars 117498-02-02 23:58 G 44636356.36 44636356.50 44636356.65 0.1650 0.0816

Saturn 117501-09-06 22:17 G 44637667.28 44637667.43 44637667.59 0.0276 0.0117

Saturn 117501-12-04 17:15 G 44637756.06 44637756.22 44637756.39 0.0276 0.0068

Saturn 117502-03-03 12:27 G 44637844.97 44637845.02 44637845.09 0.0276 0.0256

Jupiter 117502-05-30 21:05 G 44637933.22 44637933.38 44637933.55 0.0494 0.0147

Uranus 117504-03-27 07:10 G 44638599.75 44638599.80 44638599.84 0.0139 0.0130

Uranus 117504-06-23 11:00 G 44638687.88 44638687.96 44638688.05 0.0139 0.0110

Uranus 117504-09-19 15:05 G 44638776.02 44638776.13 44638776.24 0.0139 0.0090

Uranus 117504-12-16 18:56 G 44638864.18 44638864.29 44638864.42 0.0139 0.0070

Uranus 117505-03-14 23:00 G 44638952.33 44638952.46 44638952.60 0.0139 0.0050

Uranus 117505-06-11 03:05 G 44639040.49 44639040.63 44639040.77 0.0139 0.0030

Uranus 117505-09-07 06:56 G 44639128.65 44639128.79 44639128.94 0.0139 0.0011

Moon 117505-09-08 18:27 G 44639130.18 44639130.27 44639130.36 0.2659 0.1722

Earth 117505-09-08 18:27 G 44639130.18 44639130.27 44639130.35 0.2666 0.1741 *

Uranus 117505-12-04 11:00 G 44639216.82 44639216.96 44639217.10 0.0139 0.0010

Uranus 117506-03-02 14:51 G 44639304.98 44639305.12 44639305.26 0.0139 0.0030

Uranus 117506-05-29 18:41 G 44639393.15 44639393.28 44639393.41 0.0139 0.0050

Uranus 117506-08-25 22:32 G 44639481.32 44639481.44 44639481.56 0.0139 0.0069

Uranus 117506-11-22 02:08 G 44639569.50 44639569.59 44639569.71 0.0139 0.0090

Uranus 117507-02-18 06:12 G 44639657.68 44639657.76 44639657.85 0.0139 0.0108

Uranus 117507-05-17 10:03 G 44639745.87 44639745.92 44639745.98 0.0139 0.0128

Mars 117507-06-27 02:08 G 44639786.43 44639786.59 44639786.74 0.1644 0.0388

Jupiter 117507-11-07 21:48 G 44639920.32 44639920.41 44639920.51 0.0536 0.0371

Jupiter 117508-02-05 08:51 G 44640009.77 44640009.87 44640009.98 0.0533 0.0339

Moon 117508-03-11 05:29 G 44640044.59 44640044.73 44640044.88 0.2658 0.0408

Earth 117508-03-11 05:58 G 44640044.60 44640044.75 44640044.89 0.2665 0.0296 *

Mars 117508-05-06 23:15 G 44640101.42 44640101.47 44640101.53 0.1886 0.1640

Jupiter 117514-03-18 20:36 G 44642243.19 44642243.36 44642243.53 0.0493 0.0035

Saturn 117516-10-05 07:10 G 44643174.68 44643174.80 44643174.92 0.0283 0.0150

Mars 117516-11-16 04:17 G 44643216.63 44643216.68 44643216.72 0.1638 0.1556

Saturn 117517-01-01 20:08 G 44643263.20 44643263.34 44643263.48 0.0283 0.0012

Saturn 117517-03-31 09:05 G 44643351.77 44643351.88 44643351.99 0.0283 0.0170

Mars 117517-09-27 07:24 G 44643531.70 44643531.81 44643531.93 0.1893 0.0495

Jupiter 117519-11-24 11:44 G 44644319.87 44644319.99 44644320.12 0.0534 0.0163

Moon 117521-03-14 08:08 G 44644795.82 44644795.84 44644795.85 0.2667 0.2641

Venus 117522-04-21 03:34 G 44645198.59 44645198.65 44645198.71 0.3715 0.3070

Earth 117525-09-04 10:03 G 44646430.82 44646430.92 44646431.01 0.2669 0.1476

Moon 117525-09-04 10:32 G 44646430.84 44646430.94 44646431.04 0.2665 0.1446 *

Jupiter 117526-01-04 19:39 G 44646553.17 44646553.32 44646553.47 0.0492 0.0223

Mars 117527-02-17 15:20 G 44646962.03 44646962.14 44646962.25 0.1900 0.0698

Venus 117527-11-04 21:05 G 44647222.27 44647222.38 44647222.48 0.3711 0.1240

Saturn 117531-01-25 00:41 G 44648399.39 44648399.53 44648399.68 0.0277 0.0145

Saturn 117531-04-23 19:39 G 44648488.15 44648488.32 44648488.49 0.0276 0.0039

Saturn 117531-07-21 14:51 G 44648577.02 44648577.12 44648577.22 0.0276 0.0226

Jupiter 117531-09-12 15:05 G 44648629.99 44648630.13 44648630.26 0.0535 0.0017

Venus 117533-05-20 14:08 G 44649245.98 44649246.09 44649246.20 0.3708 0.0539

Mars 117537-08-05 00:41 G 44650783.40 44650783.53 44650783.66 0.1650 0.0995

Jupiter 117537-10-23 19:39 G 44650863.22 44650863.32 44650863.42 0.0492 0.0393

Jupiter 117538-01-21 18:56 G 44650953.16 44650953.29 44650953.43 0.0494 0.0316

Moon 117538-09-07 04:17 G 44651181.57 44651181.68 44651181.80 0.2661 0.0347

Earth 117538-09-07 04:46 G 44651181.59 44651181.70 44651181.81 0.2667 0.0337 *

Venus 117538-12-04 07:10 G 44651269.71 44651269.80 44651269.88 0.3704 0.2266

Earth 117541-03-09 08:36 G 44652095.86 44652095.86 44652095.87 0.2663 0.2658

Neptune 117542-08-18 05:29 G 44652622.71 44652622.73 44652622.79 0.0089 0.0087

Neptune 117542-11-14 08:36 G 44652710.79 44652710.86 44652710.95 0.0089 0.0078

Neptune 117543-02-10 11:44 G 44652798.88 44652798.99 44652799.10 0.0089 0.0070

Neptune 117543-05-09 14:22 G 44652886.99 44652887.10 44652887.24 0.0089 0.0061

Jupiter 117543-07-01 18:12 G 44652940.13 44652940.26 44652940.39 0.0536 0.0180

Neptune 117543-08-05 17:29 G 44652975.09 44652975.23 44652975.38 0.0089 0.0052

Jupiter 117543-09-29 04:46 G 44653029.67 44653029.70 44653029.73 0.0533 0.0518

Neptune 117543-11-01 20:22 G 44653063.21 44653063.35 44653063.52 0.0089 0.0044

Neptune 117544-01-28 23:29 G 44653151.32 44653151.48 44653151.65 0.0089 0.0035

Neptune 117544-04-26 02:22 G 44653239.44 44653239.60 44653239.78 0.0089 0.0026

Neptune 117544-07-23 05:29 G 44653327.56 44653327.73 44653327.91 0.0089 0.0017

Neptune 117544-10-19 08:36 G 44653415.68 44653415.86 44653416.04 0.0089 0.0008

Uranus 117545-01-12 13:39 G 44653501.00 44653501.07 44653501.13 0.0139 0.0128

Neptune 117545-01-15 11:29 G 44653503.80 44653503.98 44653504.16 0.0089 0.0003

Uranus 117545-04-10 19:24 G 44653589.21 44653589.31 44653589.44 0.0139 0.0104

Neptune 117545-04-13 14:36 G 44653591.93 44653592.11 44653592.29 0.0089 0.0010

Uranus 117545-07-08 01:39 G 44653677.44 44653677.57 44653677.73 0.0139 0.0080

Neptune 117545-07-10 17:29 G 44653680.06 44653680.23 44653680.41 0.0089 0.0019

Uranus 117545-10-04 08:08 G 44653765.69 44653765.84 44653766.00 0.0139 0.0056

Neptune 117545-10-06 20:36 G 44653768.19 44653768.36 44653768.54 0.0089 0.0028

Uranus 117545-12-31 14:36 G 44653853.94 44653854.11 44653854.28 0.0139 0.0031

Venus 117546-01-01 19:10 G 44653855.16 44653855.30 44653855.44 0.3665 0.0601

Neptune 117546-01-02 23:44 G 44653856.33 44653856.49 44653856.66 0.0089 0.0037

Saturn 117546-02-22 08:22 G 44653906.76 44653906.85 44653906.95 0.0282 0.0202

Uranus 117546-03-29 20:51 G 44653942.20 44653942.37 44653942.55 0.0139 0.0007

Neptune 117546-04-01 02:36 G 44653944.47 44653944.61 44653944.78 0.0089 0.0047

Saturn 117546-05-21 21:34 G 44653995.26 44653995.40 44653995.54 0.0283 0.0041

Uranus 117546-06-26 03:20 G 44654030.46 44654030.64 44654030.81 0.0139 0.0018

Neptune 117546-06-28 05:44 G 44654032.61 44654032.74 44654032.89 0.0089 0.0056

Saturn 117546-08-18 10:17 G 44654083.81 44654083.93 44654084.06 0.0283 0.0119

Uranus 117546-09-22 09:34 G 44654118.74 44654118.90 44654119.07 0.0139 0.0043

Neptune 117546-09-24 09:05 G 44654120.76 44654120.88 44654121.00 0.0089 0.0065

Saturn 117546-11-14 23:00 G 44654172.44 44654172.46 44654172.49 0.0283 0.0276

Uranus 117546-12-19 16:03 G 44654207.02 44654207.17 44654207.33 0.0139 0.0068

Neptune 117546-12-21 11:44 G 44654208.91 44654208.99 44654209.11 0.0089 0.0075

Mars 117546-12-26 02:36 G 44654213.44 44654213.61 44654213.77 0.1644 0.0226

Uranus 117547-03-17 22:32 G 44654295.32 44654295.44 44654295.58 0.0139 0.0093

Neptune 117547-03-19 14:51 G 44654297.08 44654297.12 44654297.21 0.0089 0.0084

Uranus 117547-06-14 05:00 G 44654383.63 44654383.71 44654383.81 0.0139 0.0118

Mars 117547-11-05 23:29 G 44654528.45 44654528.48 44654528.51 0.1885 0.1787

Jupiter 117549-11-09 18:41 G 44655263.11 44655263.28 44655263.44 0.0494 0.0136

Venus 117551-07-18 22:32 G 44655879.37 44655879.44 44655879.52 0.3670 0.3041

Moon 117551-09-09 22:32 G 44655932.37 44655932.44 44655932.52 0.2668 0.1926

Earth 117551-09-09 23:15 G 44655932.41 44655932.47 44655932.54 0.2665 0.2115 *

Moon 117554-03-12 10:46 G 44656846.81 44656846.95 44656847.10 0.2668 0.0056

Earth 117554-03-12 11:58 G 44656846.86 44656847.00 44656847.15 0.2665 0.0337 *

Jupiter 117555-04-19 21:05 G 44657250.28 44657250.38 44657250.48 0.0536 0.0359

Jupiter 117555-07-18 08:08 G 44657339.74 44657339.84 44657339.94 0.0533 0.0351

Mars 117556-05-17 04:46 G 44657643.62 44657643.70 44657643.79 0.1638 0.1385

Mars 117557-03-28 07:24 G 44657958.70 44657958.81 44657958.92 0.1893 0.0631

Saturn 117560-06-12 23:15 G 44659131.37 44659131.47 44659131.59 0.0276 0.0210

Saturn 117560-09-09 18:12 G 44659220.09 44659220.26 44659220.44 0.0276 0.0027

Saturn 117560-12-07 13:24 G 44659308.92 44659309.06 44659309.20 0.0276 0.0160

Jupiter 117561-08-28 18:41 G 44659573.11 44659573.28 44659573.45 0.0493 0.0036

Mars 117566-08-18 15:20 G 44661389.03 44661389.14 44661389.26 0.1900 0.0559

Jupiter 117567-05-06 10:32 G 44661649.81 44661649.94 44661650.06 0.0534 0.0165

Moon 117571-09-05 14:22 G 44663233.00 44663233.10 44663233.20 0.2666 0.1252

Earth 117571-09-05 15:05 G 44663233.02 44663233.13 44663233.23 0.2669 0.1086 *

Jupiter 117573-06-16 18:27 G 44663883.12 44663883.27 44663883.42 0.0493 0.0211

Pluto 117575-03-11 20:22 G 44664516.30 44664516.35 44664516.43 0.0059 0.0055

Pluto 117575-06-07 21:20 G 44664604.30 44664604.39 44664604.54 0.0059 0.0047

Saturn 117575-07-12 10:46 G 44664638.89 44664638.95 44664639.03 0.0283 0.0240

Pluto 117575-09-03 22:46 G 44664692.32 44664692.45 44664692.63 0.0059 0.0039

Saturn 117575-10-09 00:12 G 44664727.37 44664727.51 44664727.64 0.0283 0.0077

Pluto 117575-12-01 00:27 G 44664780.36 44664780.52 44664780.70 0.0059 0.0029

Saturn 117576-01-05 13:10 G 44664815.91 44664816.05 44664816.18 0.0283 0.0084

Mars 117576-01-08 23:15 G 44664819.43 44664819.47 44664819.50 0.1907 0.1780

Pluto 117576-02-27 01:53 G 44664868.40 44664868.58 44664868.78 0.0059 0.0021

Saturn 117576-04-03 01:53 G 44664904.51 44664904.58 44664904.65 0.0284 0.0242

Pluto 117576-05-25 03:20 G 44664956.45 44664956.64 44664956.84 0.0059 0.0012

Pluto 117576-08-21 04:46 G 44665044.51 44665044.70 44665044.90 0.0059 0.0003

Pluto 117576-11-17 06:12 G 44665132.56 44665132.76 44665132.96 0.0059 0.0006

Mars 117577-02-03 01:24 G 44665210.45 44665210.56 44665210.67 0.1650 0.1175

Pluto 117577-02-13 07:24 G 44665220.63 44665220.81 44665221.01 0.0060 0.0016

Pluto 117577-05-12 08:36 G 44665308.70 44665308.86 44665309.06 0.0060 0.0025

Pluto 117577-08-08 10:03 G 44665396.77 44665396.92 44665397.10 0.0060 0.0034

Pluto 117577-11-04 11:15 G 44665484.86 44665484.97 44665485.13 0.0060 0.0043

Pluto 117578-01-31 12:41 G 44665572.96 44665573.03 44665573.15 0.0060 0.0052

Venus 117578-11-26 01:39 G 44665871.49 44665871.57 44665871.65 0.3714 0.2471

Jupiter 117579-02-22 13:10 G 44665959.91 44665960.05 44665960.19 0.0535 0.0014

Venus 117584-06-10 18:56 G 44667895.18 44667895.29 44667895.39 0.3711 0.0675

Moon 117584-09-07 09:05 G 44667983.77 44667983.88 44667983.99 0.2671 0.0663

Earth 117584-09-07 09:48 G 44667983.80 44667983.91 44667984.02 0.2667 0.0726 *

Jupiter 117585-04-04 17:29 G 44668193.14 44668193.23 44668193.33 0.0492 0.0396

Jupiter 117585-07-03 17:00 G 44668283.08 44668283.21 44668283.34 0.0494 0.0313

Mars 117586-06-26 03:20 G 44668640.47 44668640.64 44668640.80 0.1644 0.0045

Moon 117587-03-10 13:53 G 44668898.00 44668898.08 44668898.16 0.2668 0.2223

Earth 117587-03-10 14:51 G 44668898.03 44668898.12 44668898.21 0.2663 0.2072 *

Uranus 117588-04-16 13:53 G 44669301.03 44669301.08 44669301.15 0.0139 0.0126

Uranus 117588-07-13 18:12 G 44669389.17 44669389.26 44669389.35 0.0139 0.0105

Uranus 117588-10-09 22:17 G 44669477.32 44669477.43 44669477.54 0.0139 0.0085

Uranus 117589-01-06 02:08 G 44669565.47 44669565.59 44669565.72 0.0139 0.0065

Uranus 117589-04-04 06:12 G 44669653.63 44669653.76 44669653.90 0.0139 0.0045

Uranus 117589-07-01 10:17 G 44669741.79 44669741.93 44669742.07 0.0139 0.0025

Uranus 117589-09-27 14:08 G 44669829.95 44669830.09 44669830.24 0.0139 0.0006

Saturn 117589-10-31 01:39 G 44669863.49 44669863.57 44669863.66 0.0277 0.0238

Uranus 117589-12-24 18:12 G 44669918.12 44669918.26 44669918.40 0.0139 0.0015

Venus 117589-12-25 11:58 G 44669918.90 44669919.00 44669919.10 0.3707 0.1104

Saturn 117590-01-27 20:36 G 44669952.19 44669952.36 44669952.53 0.0277 0.0055

Uranus 117590-03-22 22:03 G 44670006.28 44670006.42 44670006.56 0.0139 0.0035

Saturn 117590-04-26 15:34 G 44670041.00 44670041.15 44670041.31 0.0276 0.0131

Uranus 117590-06-19 01:53 G 44670094.45 44670094.58 44670094.71 0.0139 0.0055

Uranus 117590-09-15 05:44 G 44670182.63 44670182.74 44670182.86 0.0139 0.0074

Jupiter 117590-12-11 16:03 G 44670270.05 44670270.17 44670270.30 0.0536 0.0192

Uranus 117590-12-12 09:34 G 44670270.80 44670270.90 44670271.01 0.0139 0.0094

Uranus 117591-03-10 13:24 G 44670358.98 44670359.06 44670359.14 0.0139 0.0113

Jupiter 117591-03-11 02:51 G 44670359.58 44670359.62 44670359.65 0.0533 0.0509

Uranus 117591-06-06 17:15 G 44670447.18 44670447.22 44670447.26 0.0139 0.0133

Venus 117595-07-11 04:46 G 44671942.64 44671942.70 44671942.77 0.3703 0.2809

Mars 117595-11-16 05:15 G 44672070.62 44672070.72 44672070.83 0.1638 0.1222

Mars 117596-09-26 07:39 G 44672385.71 44672385.82 44672385.92 0.1893 0.0772

Venus 117597-01-22 16:46 G 44672504.12 44672504.20 44672504.28 0.3662 0.2939

Jupiter 117597-04-21 16:32 G 44672593.03 44672593.19 44672593.36 0.0494 0.0133

Earth 117597-09-10 04:17 G 44672734.64 44672734.68 44672734.72 0.2665 0.2482

Moon 117597-09-10 04:32 G 44672734.65 44672734.69 44672734.72 0.2672 0.2504 *

Earth 117600-03-12 18:12 G 44673649.12 44673649.26 44673649.39 0.2666 0.0932

Moon 117600-03-12 18:56 G 44673649.15 44673649.29 44673649.42 0.2672 0.1073 *

Venus 117602-08-08 19:39 G 44674528.18 44674528.32 44674528.46 0.3667 0.0526

Jupiter 117602-09-29 19:10 G 44674580.20 44674580.30 44674580.40 0.0537 0.0365

Jupiter 117602-12-28 06:12 G 44674669.66 44674669.76 44674669.87 0.0534 0.0347

Earth 117604-09-03 01:10 G 44675284.52 44675284.55 44675284.58 0.2671 0.2546

Saturn 117605-02-25 01:24 G 44675459.44 44675459.56 44675459.69 0.0282 0.0128

Saturn 117605-05-24 14:22 G 44675547.96 44675548.10 44675548.24 0.0283 0.0033

Saturn 117605-08-21 03:05 G 44675636.54 44675636.63 44675636.74 0.0283 0.0191

Mars 117606-02-16 15:34 G 44675816.04 44675816.15 44675816.26 0.1900 0.0410

Jupiter 117609-02-07 16:17 G 44676903.01 44676903.18 44676903.35 0.0493 0.0044

Jupiter 117614-10-16 09:34 G 44678979.77 44678979.90 44678980.02 0.0534 0.0177

Mars 117615-07-09 23:15 G 44679246.41 44679246.47 44679246.52 0.1907 0.1643

Mars 117616-08-04 01:53 G 44679637.49 44679637.58 44679637.68 0.1650 0.1350

Moon 117617-09-05 19:39 G 44680035.21 44680035.32 44680035.43 0.2674 0.0714

Earth 117617-09-05 19:53 G 44680035.22 44680035.33 44680035.44 0.2669 0.0708 *

Saturn 117619-06-16 18:56 G 44680684.14 44680684.29 44680684.44 0.0276 0.0123

Saturn 117619-09-13 13:53 G 44680772.91 44680773.08 44680773.25 0.0276 0.0061

Saturn 117619-12-11 08:51 G 44680861.81 44680861.87 44680861.95 0.0276 0.0249

Jupiter 117620-11-26 16:32 G 44681213.03 44681213.19 44681213.34 0.0493 0.0213

Neptune 117623-03-21 00:12 G 44682057.49 44682057.51 44682057.54 0.0088 0.0086

Neptune 117623-06-17 01:53 G 44682145.53 44682145.58 44682145.64 0.0088 0.0079

Neptune 117623-09-13 03:34 G 44682233.57 44682233.65 44682233.73 0.0088 0.0072

Neptune 117623-12-10 05:00 G 44682321.63 44682321.71 44682321.82 0.0088 0.0066

Neptune 117624-03-07 06:41 G 44682409.68 44682409.78 44682409.89 0.0088 0.0059

Neptune 117624-06-03 08:22 G 44682497.74 44682497.85 44682497.97 0.0088 0.0051

Neptune 117624-08-30 10:03 G 44682585.80 44682585.92 44682586.04 0.0088 0.0044

Neptune 117624-11-26 11:44 G 44682673.86 44682673.99 44682674.12 0.0088 0.0038

Neptune 117625-02-22 13:10 G 44682761.92 44682762.05 44682762.19 0.0088 0.0031

Neptune 117625-05-21 14:36 G 44682849.98 44682850.11 44682850.26 0.0088 0.0024

Neptune 117625-08-17 16:17 G 44682938.05 44682938.18 44682938.32 0.0088 0.0017

Neptune 117625-11-13 17:58 G 44683026.11 44683026.25 44683026.39 0.0088 0.0010

Mars 117625-12-25 03:48 G 44683067.50 44683067.66 44683067.83 0.1644 0.0141

Neptune 117626-02-09 19:24 G 44683114.17 44683114.31 44683114.46 0.0088 0.0004

Neptune 117626-05-08 21:05 G 44683202.24 44683202.38 44683202.52 0.0088 0.0004

Jupiter 117626-08-04 11:58 G 44683289.86 44683290.00 44683290.13 0.0535 0.0014

Neptune 117626-08-04 22:32 G 44683290.30 44683290.44 44683290.58 0.0088 0.0011

Neptune 117626-11-01 00:12 G 44683378.37 44683378.51 44683378.65 0.0088 0.0017

Neptune 117627-01-28 01:39 G 44683466.44 44683466.57 44683466.71 0.0088 0.0024

Neptune 117627-04-26 03:05 G 44683554.50 44683554.63 44683554.77 0.0088 0.0031

Neptune 117627-07-23 04:46 G 44683642.57 44683642.70 44683642.83 0.0088 0.0037

Neptune 117627-10-19 06:12 G 44683730.64 44683730.76 44683730.88 0.0088 0.0044

Neptune 117628-01-15 07:39 G 44683818.71 44683818.82 44683818.94 0.0088 0.0051

Neptune 117628-04-12 09:20 G 44683906.78 44683906.89 44683906.99 0.0088 0.0057

Neptune 117628-07-09 10:32 G 44683994.86 44683994.94 44683995.05 0.0088 0.0064

Neptune 117628-10-05 11:58 G 44684082.93 44684083.00 44684083.09 0.0088 0.0071

Neptune 117629-01-01 13:39 G 44684171.01 44684171.07 44684171.14 0.0088 0.0077

Uranus 117629-02-01 21:05 G 44684202.31 44684202.38 44684202.48 0.0139 0.0120

Neptune 117629-03-30 14:51 G 44684259.10 44684259.12 44684259.18 0.0088 0.0084

Uranus 117629-05-01 03:20 G 44684290.53 44684290.64 44684290.78 0.0139 0.0096

Uranus 117629-07-28 09:34 G 44684378.76 44684378.90 44684379.06 0.0139 0.0072

Uranus 117629-10-24 16:03 G 44684467.01 44684467.17 44684467.34 0.0139 0.0047

Uranus 117630-01-20 22:32 G 44684555.26 44684555.44 44684555.61 0.0139 0.0022

Uranus 117630-04-19 04:46 G 44684643.53 44684643.70 44684643.88 0.0139 0.0003

Uranus 117630-07-16 11:15 G 44684731.80 44684731.97 44684732.14 0.0139 0.0027

Earth 117630-09-08 14:36 G 44684786.01 44684786.11 44684786.22 0.2667 0.1100

Moon 117630-09-08 15:20 G 44684786.04 44684786.14 44684786.24 0.2671 0.1156 *

Uranus 117630-10-12 17:29 G 44684820.07 44684820.23 44684820.40 0.0139 0.0052

Uranus 117631-01-08 23:58 G 44684908.36 44684908.50 44684908.65 0.0139 0.0077

Uranus 117631-04-07 06:27 G 44684996.66 44684996.77 44684996.90 0.0139 0.0102

Uranus 117631-07-04 13:10 G 44685084.98 44685085.05 44685085.12 0.0139 0.0127

Jupiter 117632-09-14 16:32 G 44685523.08 44685523.19 44685523.29 0.0492 0.0384

Jupiter 117632-12-13 15:48 G 44685613.04 44685613.16 44685613.29 0.0495 0.0327

Earth 117633-03-10 20:51 G 44685700.25 44685700.37 44685700.49 0.2664 0.1486

Moon 117633-03-10 22:17 G 44685700.30 44685700.43 44685700.55 0.2666 0.1374 *

Saturn 117634-07-15 03:34 G 44686191.54 44686191.65 44686191.76 0.0283 0.0170

Saturn 117634-10-11 16:46 G 44686280.06 44686280.20 44686280.34 0.0283 0.0011

Saturn 117635-01-08 05:29 G 44686368.62 44686368.73 44686368.85 0.0283 0.0151

Mars 117635-05-17 06:12 G 44686497.63 44686497.76 44686497.88 0.1639 0.1044

Venus 117635-07-02 23:29 G 44686544.39 44686544.48 44686544.57 0.3713 0.1886

Mars 117636-03-27 07:39 G 44686812.72 44686812.82 44686812.92 0.1892 0.0903

Jupiter 117638-05-23 14:36 G 44687599.98 44687600.11 44687600.23 0.0536 0.0192

Jupiter 117638-08-21 01:10 G 44687689.51 44687689.55 44687689.59 0.0532 0.0507

Venus 117641-01-15 16:46 G 44688568.09 44688568.20 44688568.31 0.3710 0.0100

Jupiter 117644-10-01 14:36 G 44689922.95 44689923.11 44689923.28 0.0494 0.0133

Mars 117645-08-17 15:34 G 44690243.03 44690243.15 44690243.26 0.1900 0.0294

Earth 117646-03-14 00:12 G 44690451.39 44690451.51 44690451.63 0.2666 0.1539

Moon 117646-03-14 01:24 G 44690451.45 44690451.56 44690451.66 0.2662 0.1797 *

Venus 117646-08-01 09:48 G 44690591.81 44690591.91 44690592.01 0.3706 0.1660

Saturn 117648-11-02 20:51 G 44691416.24 44691416.37 44691416.52 0.0277 0.0154

Saturn 117649-01-30 15:48 G 44691504.99 44691505.16 44691505.34 0.0276 0.0032

Saturn 117649-04-29 11:00 G 44691593.86 44691593.96 44691594.07 0.0276 0.0218

Jupiter 117650-03-11 17:15 G 44691910.12 44691910.22 44691910.31 0.0537 0.0374

Jupiter 117650-06-09 04:17 G 44691999.58 44691999.68 44691999.79 0.0534 0.0339

Earth 117650-09-04 05:58 G 44692086.69 44692086.75 44692086.82 0.2670 0.2162

Moon 117650-09-04 06:12 G 44692086.70 44692086.76 44692086.82 0.2677 0.2221 *

Venus 117652-02-15 02:36 G 44692615.57 44692615.61 44692615.66 0.3702 0.3349

Venus 117653-08-29 17:15 G 44693177.10 44693177.22 44693177.34 0.3663 0.1881

Mars 117655-01-07 23:15 G 44693673.40 44693673.47 44693673.55 0.1907 0.1489

Mars 117656-02-03 02:36 G 44694064.55 44694064.61 44694064.67 0.1650 0.1530

Jupiter 117656-07-20 14:22 G 44694232.93 44694233.10 44694233.27 0.0493 0.0044

Venus 117659-03-15 20:22 G 44695201.23 44695201.35 44695201.48 0.3668 0.1649

Jupiter 117662-03-28 07:53 G 44696309.70 44696309.83 44696309.95 0.0535 0.0174

Earth 117663-09-07 00:56 G 44696837.43 44696837.54 44696837.66 0.2668 0.0324

Moon 117663-09-07 01:39 G 44696837.46 44696837.57 44696837.69 0.2669 0.0146 *

Saturn 117663-12-02 05:00 G 44696923.63 44696923.71 44696923.80 0.0282 0.0219

Saturn 117664-02-28 18:12 G 44697012.12 44697012.26 44697012.40 0.0282 0.0058

Saturn 117664-05-27 06:56 G 44697100.67 44697100.79 44697100.93 0.0283 0.0102

Saturn 117664-08-23 19:53 G 44697189.27 44697189.33 44697189.38 0.0283 0.0258

Mars 117665-06-25 04:32 G 44697494.53 44697494.69 44697494.85 0.1645 0.0304

Jupiter 117668-05-08 14:22 G 44698542.95 44698543.10 44698543.25 0.0492 0.0216

Pluto 117671-11-23 04:17 G 44699836.65 44699836.68 44699836.73 0.0085 0.0081

Pluto 117672-02-19 05:29 G 44699924.65 44699924.73 44699924.83 0.0085 0.0063

Uranus 117672-05-06 21:34 G 44700002.33 44700002.40 44700002.48 0.0139 0.0119

Pluto 117672-05-17 06:56 G 44700012.68 44700012.79 44700012.90 0.0085 0.0045

Uranus 117672-08-03 01:39 G 44700090.47 44700090.57 44700090.67 0.0139 0.0099

Pluto 117672-08-13 08:08 G 44700100.72 44700100.84 44700100.97 0.0085 0.0028

Uranus 117672-10-30 05:44 G 44700178.62 44700178.74 44700178.86 0.0139 0.0078

Pluto 117672-11-09 09:20 G 44700188.76 44700188.89 44700189.03 0.0085 0.0011

Uranus 117673-01-26 09:34 G 44700266.78 44700266.90 44700267.04 0.0139 0.0059

Pluto 117673-02-05 10:32 G 44700276.81 44700276.94 44700277.08 0.0085 0.0008

Uranus 117673-04-24 13:39 G 44700354.94 44700355.07 44700355.21 0.0139 0.0039

Pluto 117673-05-04 11:44 G 44700364.87 44700364.99 44700365.12 0.0085 0.0024

Uranus 117673-07-21 17:44 G 44700443.10 44700443.24 44700443.38 0.0139 0.0018

Pluto 117673-07-31 12:56 G 44700452.93 44700453.04 44700453.16 0.0084 0.0042

Uranus 117673-10-17 21:34 G 44700531.26 44700531.40 44700531.55 0.0139 0.0005

Pluto 117673-10-27 14:08 G 44700541.00 44700541.09 44700541.19 0.0084 0.0059

Uranus 117674-01-14 01:39 G 44700619.43 44700619.57 44700619.71 0.0139 0.0021

Jupiter 117674-01-14 11:00 G 44700619.82 44700619.96 44700620.10 0.0535 0.0004

Pluto 117674-01-23 15:20 G 44700629.09 44700629.14 44700629.20 0.0084 0.0075

Uranus 117674-04-12 05:29 G 44700707.60 44700707.73 44700707.87 0.0139 0.0041

Uranus 117674-07-09 09:20 G 44700795.77 44700795.89 44700796.02 0.0139 0.0061

Uranus 117674-10-05 13:10 G 44700883.94 44700884.05 44700884.17 0.0139 0.0081

Mars 117674-11-15 06:41 G 44700924.64 44700924.78 44700924.92 0.1639 0.0872

Uranus 117675-01-01 17:00 G 44700972.12 44700972.21 44700972.31 0.0139 0.0100

Uranus 117675-03-30 20:51 G 44701060.31 44701060.37 44701060.45 0.0139 0.0120

Uranus 117675-06-27 00:41 G 44701148.52 44701148.53 44701148.54 0.0139 0.0139

Mars 117675-09-26 07:39 G 44701239.72 44701239.82 44701239.91 0.1892 0.1036

Earth 117676-09-08 19:39 G 44701588.22 44701588.32 44701588.41 0.2666 0.1474

Moon 117676-09-08 19:53 G 44701588.24 44701588.33 44701588.43 0.2661 0.1481 *

Saturn 117678-03-22 18:56 G 44702148.19 44702148.29 44702148.39 0.0277 0.0225

Saturn 117678-06-19 13:39 G 44702236.90 44702237.07 44702237.24 0.0276 0.0042

Saturn 117678-09-16 08:36 G 44702325.72 44702325.86 44702326.02 0.0276 0.0144

Earth 117679-03-12 02:51 G 44702502.49 44702502.62 44702502.76 0.2664 0.0889

Moon 117679-03-12 03:20 G 44702502.50 44702502.64 44702502.78 0.2658 0.0855 *

Jupiter 117680-02-25 14:36 G 44702853.01 44702853.11 44702853.22 0.0492 0.0382

Jupiter 117680-05-25 14:08 G 44702942.96 44702943.09 44702943.22 0.0495 0.0328

Mars 117685-02-15 15:34 G 44704670.03 44704670.15 44704670.27 0.1899 0.0138

Jupiter 117685-11-02 13:24 G 44704929.93 44704930.06 44704930.19 0.0535 0.0183

Jupiter 117686-01-30 23:58 G 44705019.47 44705019.50 44705019.54 0.0532 0.0515

Venus 117686-07-24 04:03 G 44705193.61 44705193.67 44705193.72 0.3716 0.3137

Venus 117692-02-06 21:20 G 44707217.29 44707217.39 44707217.49 0.3712 0.1299

Jupiter 117692-03-13 13:39 G 44707252.91 44707253.07 44707253.24 0.0494 0.0149

Moon 117692-03-14 05:15 G 44707253.62 44707253.72 44707253.81 0.2662 0.2013

Earth 117692-03-14 06:27 G 44707253.68 44707253.77 44707253.85 0.2666 0.2155 *

Saturn 117693-04-20 06:41 G 44707655.74 44707655.78 44707655.82 0.0282 0.0267

Saturn 117693-07-17 19:53 G 44707744.20 44707744.33 44707744.46 0.0283 0.0105

Saturn 117693-10-14 08:51 G 44707832.74 44707832.87 44707833.01 0.0283 0.0055

Saturn 117694-01-10 21:48 G 44707921.32 44707921.41 44707921.50 0.0283 0.0214

Mars 117694-07-08 23:15 G 44708100.39 44708100.47 44708100.55 0.1906 0.1367

Earth 117696-09-04 11:00 G 44708888.88 44708888.96 44708889.05 0.2670 0.1768

Moon 117696-09-04 11:44 G 44708888.90 44708888.99 44708889.08 0.2667 0.1653 *

Jupiter 117697-08-21 15:48 G 44709240.07 44709240.16 44709240.26 0.0536 0.0369

Venus 117697-08-22 14:36 G 44709241.00 44709241.11 44709241.22 0.3709 0.0488

Jupiter 117697-11-19 03:05 G 44709329.53 44709329.63 44709329.73 0.0533 0.0343

Venus 117703-03-09 07:39 G 44711264.73 44711264.82 44711264.90 0.3705 0.2217

Jupiter 117704-01-01 12:56 G 44711562.87 44711563.04 44711563.21 0.0493 0.0041

Mars 117704-12-25 05:15 G 44711921.56 44711921.72 44711921.87 0.1645 0.0487

Neptune 117707-05-16 03:48 G 44712793.62 44712793.66 44712793.73 0.0089 0.0084

Saturn 117707-08-10 20:36 G 44712880.31 44712880.36 44712880.43 0.0277 0.0259

Neptune 117707-08-12 06:56 G 44712881.70 44712881.79 44712881.89 0.0089 0.0075

Saturn 117707-11-07 15:34 G 44712968.99 44712969.15 44712969.32 0.0277 0.0075

Neptune 117707-11-08 09:34 G 44712969.80 44712969.90 44712970.03 0.0089 0.0067

Saturn 117708-02-04 10:32 G 44713057.79 44713057.94 44713058.10 0.0277 0.0111

Neptune 117708-02-04 12:41 G 44713057.90 44713058.03 44713058.17 0.0089 0.0058 *

Neptune 117708-05-02 15:34 G 44713146.01 44713146.15 44713146.31 0.0089 0.0050

Neptune 117708-07-29 18:41 G 44713234.13 44713234.28 44713234.44 0.0089 0.0041

Neptune 117708-10-25 21:34 G 44713322.24 44713322.40 44713322.57 0.0089 0.0032

Neptune 117709-01-22 00:27 G 44713410.36 44713410.52 44713410.70 0.0089 0.0024

Neptune 117709-04-20 03:34 G 44713498.48 44713498.65 44713498.83 0.0089 0.0014

Neptune 117709-07-17 06:41 G 44713586.60 44713586.78 44713586.96 0.0089 0.0005

Earth 117709-09-08 05:58 G 44713639.63 44713639.75 44713639.86 0.2668 0.0090

Jupiter 117709-09-08 05:58 G 44713639.63 44713639.75 44713639.88 0.0535 0.0169 *

Moon 117709-09-08 05:58 G 44713639.63 44713639.75 44713639.87 0.2661 0.0063 *

Neptune 117709-10-13 09:48 G 44713674.73 44713674.91 44713675.09 0.0089 0.0004

Neptune 117710-01-09 12:41 G 44713762.85 44713763.03 44713763.21 0.0089 0.0013

Venus 117710-04-06 17:44 G 44713850.11 44713850.24 44713850.38 0.3665 0.0802

Neptune 117710-04-07 15:34 G 44713850.98 44713851.15 44713851.33 0.0089 0.0022

Neptune 117710-07-04 18:41 G 44713939.12 44713939.28 44713939.45 0.0089 0.0031

Neptune 117710-09-30 21:34 G 44714027.25 44714027.40 44714027.57 0.0089 0.0040

Neptune 117710-12-28 00:41 G 44714115.39 44714115.53 44714115.69 0.0089 0.0049

Neptune 117711-03-26 03:48 G 44714203.53 44714203.66 44714203.81 0.0089 0.0058

Neptune 117711-06-22 06:56 G 44714291.68   44714291.79   44714291.92 0.0089 0.0067

Neptune 117711-09-18 10:03 G 44714379.84   44714379.92   44714380.02 0.0089 0.0077

Neptune 117711-12-15 13:24 G 44714468.01   44714468.06   44714468.11 0.0089 0.0086

Uranus   117712-11-26 23:00 G 44714815.42   44714815.46   44714815.50 0.0139 0.0135

Uranus   117713-02-23 04:46 G 44714903.61   44714903.70   44714903.82 0.0139 0.0112

Uranus   117713-05-22 11:00 G 44714991.84   44714991.96   44714992.11 0.0139 0.0088

Uranus   117713-08-18 17:44 G 44715080.08   44715080.24   44715080.39 0.0139 0.0063

Uranus   117713-11-14 23:58 G 44715168.33   44715168.50   44715168.67 0.0139 0.0038

Uranus   117714-02-11 06:12 G 44715256.59   44715256.76   44715256.94 0.0139 0.0014

Uranus   117714-05-10 12:41 G 44715344.85   44715345.03   44715345.20 0.0139 0.0011

Mars   117714-05-17 07:10 G 44715351.66   44715351.80   44715351.95 0.1639 0.0709

Uranus   117714-08-06 18:56 G 44715433.13   44715433.29   44715433.47 0.0139 0.0036

Uranus   117714-11-03 01:24 G 44715521.41   44715521.56   44715521.72 0.0139 0.0061

Uranus   117715-01-30 07:53 G 44715609.70   44715609.83   44715609.97 0.0139 0.0086

Mars   117715-03-28 07:39 G 44715666.73   44715666.82   44715666.91 0.1892 0.1181

Uranus   117715-04-28 14:22 G 44715698.00   44715698.10   44715698.21 0.0139 0.0111

Uranus   117715-07-25 20:51 G 44715786.35   44715786.37   44715786.41 0.0139 0.0136

Jupiter 117715-10-20 12:41 G 44715872.88   44715873.03   44715873.19 0.0492 0.0212

Venus   117715-10-21 21:05 G 44715874.29   44715874.38   44715874.47 0.3669 0.2798

Jupiter 117721-06-27 09:20 G 44717949.76   44717949.89   44717950.03 0.0535 0.0013

Moon   117722-09-10 23:44 G 44718390.40   44718390.49   44718390.58 0.2664 0.1715

Earth   117722-09-11 00:27 G 44718390.44   44718390.52   44718390.60 0.2666 0.1846 *

Saturn   117722-12-05 21:20 G 44718476.28   44718476.39   44718476.51 0.0282 0.0154

Saturn   117723-03-04 10:32 G 44718564.80   44718564.94   44718565.08 0.0282 0.0009

Saturn   117723-05-31 23:15 G 44718653.36   44718653.47   44718653.58 0.0282 0.0165

Mars   117724-08-17 15:34 G 44719097.03   44719097.15   44719097.27 0.1899 0.0034

Moon   117725-03-13 07:39 G 44719304.67   44719304.82   44719304.96 0.2665 0.0469

Earth   117725-03-13 09:05 G 44719304.73   44719304.88   44719305.02 0.2665 0.0290 *

Jupiter 117727-08-08 12:41 G 44720182.93   44720183.03   44720183.14 0.0492 0.0383

Jupiter 117727-11-06 11:58 G 44720272.88   44720273.00   44720273.13 0.0494 0.0326

Jupiter 117733-04-15 12:27 G 44722259.89 44722260.02 44722260.15 0.0536 0.0171

Jupiter 117733-07-13 23:15 G 44722349.46 44722349.47 44722349.48 0.0533 0.0529

Mars 117734-01-07 23:15 G 44722527.39 44722527.47 44722527.56 0.1906 0.1220

Saturn 117737-03-26 13:10 G 44723700.91 44723701.05 44723701.20 0.0277 0.0150

Saturn 117737-06-23 08:08 G 44723789.67 44723789.84 44723790.01 0.0276 0.0035

Saturn 117737-09-20 03:20 G 44723878.54 44723878.64 44723878.74 0.0276 0.0222

Moon 117738-03-16 11:58 G 44724055.97 44724056.00 44724056.03 0.2672 0.2603

Jupiter 117739-08-25 11:58 G 44724582.84 44724583.00 44724583.17 0.0494 0.0152

Moon 117742-09-06 15:48 G 44725691.06 44725691.16 44725691.26 0.2663 0.1373

Earth 117742-09-06 16:03 G 44725691.07 44725691.17 44725691.27 0.2670 0.1379 *

Venus 117743-03-01 01:53 G 44725866.51 44725866.58 44725866.66 0.3715 0.2537

Mars 117744-06-25 05:44 G 44726348.59 44726348.74 44726348.89 0.1645 0.0662

Jupiter 117745-02-01 14:51 G 44726570.02 44726570.12 44726570.22 0.0536 0.0358

Jupiter 117745-05-02 02:08 G 44726659.49 44726659.59 44726659.69 0.0533 0.0353

Venus 117748-09-13 19:24 G 44727890.20 44727890.31 44727890.41 0.3711 0.0717

Jupiter 117751-06-13 11:58 G 44728892.83 44728893.00 44728893.17 0.0493 0.0024

Saturn 117752-04-23 22:46 G 44729208.35 44729208.45 44729208.55 0.0282 0.0205

Saturn 117752-07-21 11:44 G 44729296.86 44729296.99 44729297.13 0.0283 0.0045

Saturn 117752-10-18 00:41 G 44729385.41 44729385.53 44729385.66 0.0283 0.0116

Saturn 117753-01-14 13:24 G 44729474.03 44729474.06 44729474.10 0.0283 0.0273

Mars 117753-11-15 07:53 G 44729778.68 44729778.83 44729778.98 0.1639 0.0531

Venus 117754-03-30 12:27 G 44729913.92 44729914.02 44729914.12 0.3708 0.1060

Mars 117754-09-26 07:39 G 44730093.74 44730093.82 44730093.90 0.1892 0.1307

Moon 117755-09-09 10:03 G 44730441.81 44730441.92 44730442.04 0.2670 0.0270

Earth 117755-09-09 10:46 G 44730441.84 44730441.95 44730442.07 0.2668 0.0460 *

Uranus 117756-03-01 00:41 G 44730615.50 44730615.53 44730615.57 0.0138 0.0134

Uranus 117756-05-28 04:46 G 44730703.62 44730703.70 44730703.79 0.0138 0.0114

Uranus 117756-08-24 08:51 G 44730791.77 44730791.87 44730791.98 0.0139 0.0093

Uranus 117756-11-20 12:41 G 44730879.92 44730880.03 44730880.16 0.0139 0.0074

Uranus 117757-02-16 16:46 G 44730968.08 44730968.20 44730968.34 0.0139 0.0054

Jupiter 117757-02-18 05:00 G 44730969.58 44730969.71 44730969.84 0.0534 0.0178

Uranus 117757-05-15 20:51 G 44731056.24 44731056.37 44731056.51 0.0139 0.0033

Uranus 117757-08-12 00:56 G 44731144.40 44731144.54 44731144.68 0.0139 0.0013

Uranus 117757-11-08 04:46 G 44731232.56 44731232.70 44731232.85 0.0139 0.0008

Uranus 117758-02-04 08:51 G 44731320.73 44731320.87 44731321.01 0.0139 0.0027

Earth 117758-03-11 11:58 G 44731355.99 44731356.00 44731356.01 0.2663 0.2650

Uranus 117758-05-03 12:41 G 44731408.90 44731409.03 44731409.16 0.0139 0.0046

Uranus 117758-07-30 16:32 G 44731497.07 44731497.19 44731497.32 0.0139 0.0066

Uranus 117758-10-26 20:22 G 44731585.24 44731585.35 44731585.46 0.0139 0.0086

Uranus 117759-01-23 00:12 G 44731673.42 44731673.51 44731673.61 0.0139 0.0105

Uranus 117759-04-21 04:03 G 44731761.61 44731761.67 44731761.74 0.0139 0.0124

Venus 117759-10-14 05:29 G 44731937.66 44731937.73 44731937.80 0.3704 0.2769

Venus 117761-04-27 15:34 G 44732499.08 44732499.15 44732499.22 0.3661 0.3122

Jupiter 117763-04-01 11:15 G 44733202.82 44733202.97 44733203.13 0.0492 0.0206

Mars 117764-02-16 15:34 G 44733524.03 44733524.15 44733524.27 0.1899 0.0134

Saturn 117766-08-13 14:36 G 44734432.99 44734433.11 44734433.24 0.0277 0.0187

Saturn 117766-11-10 09:34 G 44734521.73 44734521.90 44734522.07 0.0277 0.0003

Venus 117766-11-11 18:27 G 44734523.13 44734523.27 44734523.41 0.3666 0.0313

Saturn 117767-02-07 04:46 G 44734610.57 44734610.70 44734610.83 0.0277 0.0185

Moon 117768-09-11 05:15 G 44735192.66 44735192.72 44735192.78 0.2672 0.2263

Earth 117768-09-11 05:29 G 44735192.67 44735192.73 44735192.79 0.2666 0.2217 *

Jupiter 117768-12-07 07:39 G 44735279.68 44735279.82 44735279.96 0.0536 0.0003

Earth 117771-03-14 15:05 G 44736106.98 44736107.13 44736107.28 0.2665 0.0305

Moon 117771-03-14 15:05 G 44736106.99 44736107.13 44736107.27 0.2672 0.0398 *

Mars 117773-07-08 23:29 G 44736954.38 44736954.48 44736954.58 0.1906 0.1071

Jupiter 117775-01-18 11:29 G 44737512.88 44737512.98 44737513.09 0.0491 0.0374

Jupiter 117775-04-18 10:46 G 44737602.82 44737602.95 44737603.08 0.0494 0.0333

Jupiter 117780-09-25 10:46 G 44739589.83 44739589.95 44739590.08 0.0536 0.0174

Jupiter 117780-12-23 21:34 G 44739679.39 44739679.40 44739679.42 0.0533 0.0529

Saturn 117781-09-11 00:27 G 44739940.46 44739940.52 44739940.59 0.0281 0.0250

Saturn 117781-12-08 13:39 G 44740028.94 44740029.07 44740029.20 0.0282 0.0090

Saturn 117782-03-07 02:36 G 44740117.47 44740117.61 44740117.74 0.0282 0.0069

Saturn 117782-06-03 15:19 G 44740206.06 44740206.14 44740206.22 0.0282 0.0226

Mars 117783-12-25 06:12 G 44740775.62 44740775.76 44740775.90 0.1645 0.0827

Jupiter 117787-02-04 10:17 G 44741912.77 44741912.93 44741913.09 0.0493 0.0153

Neptune 117787-12-16 23:29 G 44742228.45 44742228.48 44742228.53 0.0088 0.0084

Neptune 117788-03-14 01:10 G 44742316.49 44742316.55 44742316.62 0.0088 0.0077

Neptune 117788-06-10 02:51 G 44742404.54 44742404.62 44742404.71 0.0088 0.0070

Neptune 117788-09-06 04:31 G 44742492.59 44742492.69 44742492.79 0.0088 0.0063

Moon 117788-09-06 20:36 G 44742493.25 44742493.36 44742493.46 0.2674 0.1042

Earth 117788-09-06 21:05 G 44742493.27 44742493.38 44742493.49 0.2669 0.0991 *

Neptune 117788-12-03 06:12 G 44742580.65 44742580.76 44742580.87 0.0088 0.0056

Neptune 117789-03-01 07:24 G 44742668.71 44742668.81 44742668.94 0.0088 0.0050

Neptune 117789-05-28 09:05 G 44742756.77 44742756.88 44742757.02 0.0088 0.0042

Neptune 117789-08-24 10:46 G 44742844.83 44742844.95 44742845.09 0.0088 0.0035

Neptune 117789-11-20 12:27 G 44742932.89 44742933.02 44742933.16 0.0088 0.0028

Neptune 117790-02-16 14:07 G 44743020.95 44743021.09 44743021.23 0.0088 0.0021

Neptune 117790-05-15 15:34 G 44743109.02 44743109.15 44743109.30 0.0088 0.0015

Neptune 117790-08-11 17:15 G 44743197.08 44743197.22 44743197.36 0.0088 0.0007

Neptune 117790-11-07 18:41 G 44743285.14 44743285.28 44743285.43 0.0088 0.0003

Neptune 117791-02-03 20:22 G 44743373.21 44743373.35 44743373.49 0.0088 0.0006

Neptune 117791-05-02 21:48 G 44743461.27 44743461.41 44743461.55 0.0088 0.0013

Neptune 117791-07-29 23:15 G 44743549.34 44743549.47 44743549.62 0.0088 0.0021

Neptune 117791-10-26 00:55 G 44743637.41 44743637.54 44743637.68 0.0088 0.0027

Neptune 117792-01-22 02:22 G 44743725.48 44743725.60 44743725.74 0.0088 0.0034

Neptune 117792-04-19 03:48 G 44743813.55 44743813.66 44743813.79 0.0088 0.0041

Jupiter 117792-07-14 13:53 G 44743899.98 44743900.08 44743900.19 0.0537 0.0347

Neptune 117792-07-16 05:15 G 44743901.62 44743901.72 44743901.85 0.0088 0.0047

Jupiter 117792-10-12 01:10 G 44743989.45 44743989.55 44743989.65 0.0534 0.0366

Neptune 117792-10-12 07:10 G 44743989.69 44743989.80 44743989.91 0.0088 0.0053

Neptune 117793-01-08 08:22 G 44744077.76   44744077.85   44744077.96 0.0088 0.0060

Neptune 117793-04-06 09:48 G 44744165.83   44744165.91   44744166.01 0.0088 0.0067

Mars   117793-05-16 08:36 G 44744205.70   44744205.86   44744206.02 0.1639 0.0358

Neptune 117793-07-03 11:29 G 44744253.91   44744253.98   44744254.06 0.0088 0.0073

Neptune 117793-09-29 12:55 G 44744341.99   44744342.04   44744342.11 0.0088 0.0080

Neptune 117793-12-26 14:36 G 44744430.09   44744430.11   44744430.13 0.0088 0.0086

Mars   117794-03-27 07:39 G 44744520.75   44744520.82   44744520.89 0.1891 0.1443

Saturn   117795-12-31 12:12 G 44745164.96   44745165.01   44745165.07 0.0277 0.0261

Saturn   117796-03-29 06:55 G 44745253.63   44745253.79   44745253.96 0.0277 0.0079

Saturn   117796-06-26 01:53 G 44745342.43   44745342.58   44745342.74 0.0277 0.0108

Uranus   117796-12-17 06:27 G 44745516.72   44745516.77   44745516.86 0.0139 0.0127

Uranus   117797-03-15 12:41 G 44745604.93   44745605.03   44745605.16 0.0139 0.0103

Uranus   117797-06-11 18:55 G 44745693.16   44745693.29   44745693.45 0.0139 0.0079

Uranus   117797-09-08 01:24 G 44745781.40   44745781.56   44745781.72 0.0139 0.0054

Uranus   117797-12-05 07:53 G 44745869.66   44745869.83   44745870.00 0.0139 0.0030

Uranus   117798-03-03 14:07 G 44745957.92   44745958.09   44745958.27 0.0139 0.0005

Uranus   117798-05-30 20:22 G 44746046.18   44746046.35   44746046.53 0.0139 0.0020

Uranus   117798-08-27 02:51 G 44746134.46   44746134.62   44746134.79 0.0139 0.0045

Uranus   117798-11-23 09:05 G 44746222.74   44746222.88   44746223.05 0.0139 0.0070

Jupiter 117798-11-23 10:31 G 44746222.77   44746222.94   44746223.11 0.0493 0.0022 *

Uranus   117799-02-19 15:34 G 44746311.03   44746311.15   44746311.29 0.0139 0.0095

Uranus   117799-05-18 22:17 G 44746399.35   44746399.43   44746399.52 0.0139 0.0120

Venus   117799-10-05 23:58 G 44746539.41   44746539.50   44746539.59 0.3714 0.1939

Earth   117801-09-10 15:48 G 44747244.05   44747244.16   44747244.27 0.2667 0.0820

Moon   117801-09-10 16:03 G 44747244.06   44747244.17   44747244.28 0.2674 0.0823 *

Mars   117802-10-07 11:00 G 44747635.90   44747635.96   44747636.01 0.1634 0.1515

Mars   117803-08-18 15:34 G 44747951.04   44747951.15   44747951.27 0.1899 0.0283

Earth   117804-03-12 17:58 G 44748158.16   44748158.25   44748158.34 0.2663 0.2067

Moon   117804-03-12 18:55 G 44748158.19   44748158.29   44748158.38 0.2669 0.1960 *

Jupiter 117804-05-03 16:17 G 44748210.17   44748210.18   44748210.20 0.0537 0.0534

Jupiter 117804-08-01 04:03 G 44748299.54 44748299.67 44748299.80 0.0534 0.0189

Venus 117805-04-21 17:15 G 44748563.11 44748563.22 44748563.33 0.3710 0.0131

Jupiter 117810-09-12 10:31 G 44750532.78 44750532.94 44750533.10 0.0492 0.0190

Venus 117810-11-05 10:17 G 44750586.84 44750586.93 44750587.03 0.3707 0.1621

Saturn 117811-04-28 14:36 G 44750760.99 44750761.11 44750761.23 0.0282 0.0146

Saturn 117811-07-26 03:34 G 44750849.51 44750849.65 44750849.79 0.0283 0.0015

Saturn 117811-10-22 16:17 G 44750938.08 44750938.18 44750938.30 0.0283 0.0173

Mars 117813-01-07 23:29 G 44751381.37 44751381.48 44751381.58 0.1906 0.0946

Earth 117814-09-13 10:17 G 44751994.91 44751994.93 44751994.96 0.2666 0.2589

Jupiter 117816-05-20 06:55 G 44752609.65 44752609.79 44752609.92 0.0535 0.0019

Venus 117816-05-21 03:19 G 44752610.59 44752610.64 44752610.68 0.3703 0.3311

Earth 117817-03-15 21:19 G 44752909.25 44752909.39 44752909.52 0.2665 0.0913

Moon 117817-03-15 22:31 G 44752909.31 44752909.44 44752909.57 0.2663 0.1133 *

Venus 117817-12-03 15:48 G 44753172.05 44753172.16 44753172.28 0.3663 0.2091

Pluto 117821-08-01 07:10 G 44754508.77 44754508.80 44754508.85 0.0059 0.0058

Moon 117821-09-06 06:55 G 44754544.75 44754544.79 44754544.83 0.2677 0.2480

Earth 117821-09-06 07:10 G 44754544.76 44754544.80 44754544.84 0.2671 0.2455 *

Pluto 117821-10-28 08:07 G 44754596.75 44754596.84 44754596.97 0.0059 0.0049

Pluto 117822-01-24 09:34 G 44754684.78 44754684.90 44754685.07 0.0059 0.0041

Pluto 117822-04-22 11:15 G 44754772.81 44754772.97 44754773.15 0.0059 0.0031

Jupiter 117822-07-01 10:17 G 44754842.82 44754842.93 44754843.04 0.0491 0.0365

Pluto 117822-07-19 12:41 G 44754860.85 44754861.03 44754861.22 0.0059 0.0023

Jupiter 117822-09-29 09:19 G 44754932.77 44754932.89 44754933.02 0.0494 0.0342

Pluto 117822-10-15 14:07 G 44754948.90 44754949.09 44754949.29 0.0059 0.0014

Pluto 117823-01-11 15:34 G 44755036.95 44755037.15 44755037.35 0.0059 0.0005

Pluto 117823-04-09 16:46 G 44755125.01 44755125.20 44755125.41 0.0059 0.0005

Venus 117823-06-19 18:55 G 44755196.16 44755196.29 44755196.42 0.3667 0.1413

Mars 117823-06-26 07:10 G 44755202.67 44755202.80 44755202.92 0.1645 0.1014

Pluto 117823-07-06 17:58 G 44755213.07 44755213.25 44755213.46 0.0059 0.0014

Pluto 117823-10-02 19:39 G 44755301.14 44755301.32 44755301.51 0.0060 0.0022

Pluto 117823-12-29 21:05 G 44755389.21 44755389.38 44755389.55 0.0060 0.0031

Pluto 117824-03-26 22:17 G 44755477.29 44755477.43 44755477.59 0.0060 0.0040

Pluto 117824-06-22 23:43 G 44755565.39 44755565.49 44755565.61 0.0060 0.0049

Pluto 117824-09-19 01:10 G 44755653.52 44755653.55 44755653.60 0.0060 0.0058

Saturn 117825-08-17 08:07 G 44755985.69 44755985.84 44755986.00 0.0277 0.0119

Saturn 117825-11-14 03:05 G 44756074.46 44756074.63 44756074.80 0.0277 0.0067

Saturn 117826-02-10 22:17 G 44756163.37 44756163.43 44756163.50 0.0277 0.0256

Jupiter 117828-03-08 09:19 G 44756919.76 44756919.89 44756920.02 0.0537 0.0176

Jupiter 117828-06-05 20:07 G 44757009.32 44757009.34 44757009.36 0.0533 0.0527

Mars 117832-11-15 09:05 G 44758632.72 44758632.88 44758633.04 0.1639 0.0195

Mars 117833-09-26 07:53 G 44758947.76 44758947.83 44758947.89 0.1891 0.1590

Jupiter 117834-07-18 09:05 G 44759242.72 44759242.88 44759243.05 0.0493 0.0164

Earth 117834-09-09 02:07 G 44759295.47 44759295.59 44759295.70 0.2669 0.0612

Moon 117834-09-09 02:36 G 44759295.50 44759295.61 44759295.73 0.2674 0.0538 *

Jupiter 117839-12-26 12:27 G 44761229.91 44761230.02 44761230.12 0.0537 0.0350

Uranus 117840-03-22 08:22 G 44761316.80 44761316.85 44761316.91 0.0138 0.0127

Jupiter 117840-03-24 23:43 G 44761319.39 44761319.49 44761319.58 0.0534 0.0366

Uranus 117840-06-18 12:27 G 44761404.93 44761405.02 44761405.11 0.0138 0.0107

Uranus 117840-09-14 16:17 G 44761493.08 44761493.18 44761493.30 0.0139 0.0087

Saturn 117840-09-14 16:31 G 44761493.09 44761493.19 44761493.30 0.0281 0.0188 *

Uranus 117840-12-11 20:22 G 44761581.23 44761581.35 44761581.48 0.0139 0.0067

Saturn 117840-12-12 05:43 G 44761581.60 44761581.74 44761581.88 0.0281 0.0029

Uranus 117841-03-10 00:27 G 44761669.39 44761669.52 44761669.66 0.0139 0.0047

Saturn 117841-03-10 18:27 G 44761670.15 44761670.27 44761670.40 0.0282 0.0129

Uranus 117841-06-06 04:31 G 44761757.55 44761757.69 44761757.83 0.0139 0.0026

Uranus 117841-09-02 08:22 G 44761845.71 44761845.85 44761846.00 0.0139 0.0008

Uranus 117841-11-29 12:27 G 44761933.88 44761934.02 44761934.16 0.0139 0.0013

Uranus 117842-02-25 16:17 G 44762022.04 44762022.18 44762022.32 0.0139 0.0033

Mars 117842-04-07 11:29 G 44762062.89 44762062.98 44762063.07 0.1634 0.1349

Uranus 117842-05-24 20:07 G 44762110.22 44762110.34 44762110.48 0.0139 0.0053

Uranus 117842-08-21 00:12 G 44762198.39 44762198.51 44762198.63 0.0139 0.0072

Uranus 117842-11-17 03:48 G 44762286.56 44762286.66 44762286.77 0.0139 0.0092

Uranus 117843-02-13 07:39 G 44762374.75 44762374.82 44762374.91 0.0139 0.0112

Mars 117843-02-16 15:48 G 44762378.04 44762378.16 44762378.27 0.1898 0.0417

Uranus 117843-05-12 11:43 G 44762462.94 44762462.99 44762463.03 0.0139 0.0131

Jupiter 117846-05-06 08:51 G 44763552.70 44763552.87 44763553.04 0.0493 0.0015

Earth 117847-09-11 20:36 G 44764046.26 44764046.36 44764046.47 0.2667 0.1200

Moon 117847-09-11 21:19 G 44764046.29 44764046.39 44764046.49 0.2663 0.1319 *

Earth 117850-03-14 00:12 G 44764960.39 44764960.51 44764960.63 0.2663 0.1473

Moon 117850-03-14 00:55 G 44764960.41 44764960.54 44764960.67 0.2658 0.1267 *

Venus 117850-10-28 04:31 G 44765188.63 44765188.69 44765188.74 0.3717 0.3193

Jupiter 117851-10-14 15:19 G 44765540.11 44765540.14 44765540.17 0.0538 0.0524

Jupiter 117852-01-12 03:05 G 44765629.51 44765629.63 44765629.76 0.0535 0.0201

Mars 117852-07-08 23:29 G 44765808.37 44765808.48 44765808.58 0.1906 0.0806

Saturn 117855-01-04 05:43 G 44766717.62 44766717.74 44766717.86 0.0277 0.0195

Saturn 117855-04-03 00:27 G 44766806.35 44766806.52 44766806.69 0.0277 0.0011

Saturn 117855-06-30 19:24 G 44766895.18 44766895.31 44766895.45 0.0277 0.0177

Venus 117856-05-12 21:48 G 44767212.31 44767212.41 44767212.51 0.3713 0.1349

Jupiter 117858-02-22 09:05 G 44767862.72 44767862.88 44767863.04 0.0492 0.0183

Venus 117861-11-26 15:05 G 44769236.02 44769236.13 44769236.24 0.3709 0.0450

Mars 117862-12-25 07:39 G 44769629.71 44769629.82 44769629.93 0.1645 0.1188

Moon 117863-03-17 02:51 G 44769711.49 44769711.62 44769711.75 0.2659 0.1336

Earth 117863-03-17 03:19 G 44769711.52 44769711.64 44769711.76 0.2666 0.1526 *

Jupiter 117863-10-31 05:58 G 44769939.61 44769939.75 44769939.88 0.0535 0.0024

Venus 117867-06-12 08:07 G 44771259.75 44771259.84 44771259.93 0.3706 0.2168

Earth 117867-09-07 12:12 G 44771346.94 44771347.01 44771347.08 0.2671 0.2059

Moon 117867-09-07 12:55 G 44771346.96 44771347.04 44771347.12 0.2671 0.1844 *

Jupiter 117869-12-11 09:19 G 44772172.77 44772172.89 44772173.01 0.0492 0.0351

Saturn 117870-02-01 17:15 G 44772225.16 44772225.22 44772225.29 0.0282 0.0247

Jupiter 117870-03-11 08:36 G 44772262.74 44772262.86 44772262.98 0.0494 0.0358

Saturn 117870-05-01 06:27 G 44772313.63 44772313.77 44772313.90 0.0282 0.0086

Saturn 117870-07-28 19:24 G 44772402.17 44772402.31 44772402.44 0.0282 0.0073

Saturn 117870-10-25 08:07 G 44772490.76 44772490.84 44772490.92 0.0283 0.0230

Neptune 117872-02-11 01:39 G 44772964.52 44772964.57 44772964.66 0.0089 0.0082

Neptune 117872-05-09 04:46 G 44773052.61 44773052.70 44773052.81 0.0089 0.0073

Mars 117872-05-16 09:48 G 44773059.75 44773059.91 44773060.07 0.1640 0.0020

Neptune 117872-08-05 07:53 G 44773140.71 44773140.83 44773140.95 0.0089 0.0064

Neptune 117872-11-01 10:31 G 44773228.82 44773228.94 44773229.09 0.0089 0.0056

Neptune 117873-01-28 13:24 G 44773316.93 44773317.06 44773317.23 0.0089 0.0048

Mars 117873-03-27 07:39 G 44773374.78 44773374.82 44773374.87 0.1891 0.1716

Neptune 117873-04-26 16:31 G 44773405.04 44773405.19 44773405.36 0.0089 0.0038

Neptune 117873-07-23 19:39 G 44773493.15 44773493.32 44773493.49 0.0089 0.0029

Neptune 117873-10-19 22:46 G 44773581.27 44773581.45 44773581.62 0.0089 0.0021

Neptune 117874-01-16 01:39 G 44773669.39 44773669.57 44773669.75 0.0089 0.0012

Neptune 117874-04-14 04:31 G 44773757.52 44773757.69 44773757.87 0.0089 0.0004

Venus 117874-07-10 16:17 G 44773845.05 44773845.18 44773845.32 0.3664 0.1023

Neptune 117874-07-11 07:39 G 44773845.64 44773845.82 44773846.00 0.0089 0.0006

Neptune 117874-10-07 10:31 G 44773933.77 44773933.94 44773934.12 0.0089 0.0015

Neptune 117875-01-03 13:24 G 44774021.90 44774022.06 44774022.24 0.0089 0.0025

Neptune 117875-04-01 16:31 G 44774110.03 44774110.19 44774110.36 0.0089 0.0033

Neptune 117875-06-28 19:24 G 44774198.17 44774198.31 44774198.48 0.0089 0.0043

Jupiter 117875-08-19 08:36 G 44774249.73 44774249.86 44774249.99 0.0536 0.0157

Neptune 117875-09-24 22:31 G 44774286.30 44774286.44 44774286.60 0.0089 0.0052

Neptune 117875-12-22 01:39 G 44774374.45 44774374.57 44774374.71 0.0089 0.0061

Neptune 117876-03-19 04:46 G 44774462.60 44774462.70 44774462.82 0.0089 0.0070

Neptune 117876-06-15 07:53 G 44774550.75 44774550.83 44774550.92 0.0089 0.0079

Neptune 117876-09-11 10:31 G 44774638.94 44774638.94 44774639.00 0.0089 0.0089

Venus 117880-01-24 19:24 G 44775869.21 44775869.31 44775869.42 0.3668 0.2527

Earth 117880-09-09 06:55 G 44776097.68 44776097.79 44776097.91 0.2669 0.0230

Moon 117880-09-09 07:24 G 44776097.69 44776097.81 44776097.92 0.2663 0.0259 *

Uranus 117881-01-07 14:36 G 44776218.02 44776218.11 44776218.20 0.0139 0.0118

Uranus 117881-04-05 20:51 G 44776306.24 44776306.37 44776306.49 0.0139 0.0094

Uranus 117881-07-03 02:51 G 44776394.48 44776394.62 44776394.78 0.0139 0.0070

Uranus 117881-09-29 09:05 G 44776482.72 44776482.88 44776483.05 0.0139 0.0046

Mars 117881-10-06 11:58 G 44776489.89 44776490.00 44776490.11 0.1634 0.1179

Uranus 117881-12-26 15:34 G 44776570.98 44776571.15 44776571.32 0.0139 0.0021

Jupiter 117881-12-28 07:53 G 44776572.67 44776572.83 44776572.99 0.0493 0.0174

Uranus 117882-03-24 21:48 G 44776659.24 44776659.41 44776659.59 0.0139 0.0005

Uranus 117882-06-21 04:17 G 44776747.51 44776747.68 44776747.85 0.0139 0.0029

Mars 117882-08-17 15:34 G 44776805.04 44776805.15 44776805.27 0.1899 0.0545

Uranus 117882-09-17 10:46 G 44776835.79 44776835.95 44776836.11 0.0139 0.0053

Uranus 117882-12-14 17:15 G 44776924.07 44776924.22 44776924.36 0.0139 0.0078

Uranus 117883-03-12 23:15 G 44777012.37 44777012.47 44777012.60 0.0139 0.0104

Uranus 117883-06-09 05:58 G 44777100.70 44777100.75 44777100.83 0.0139 0.0129

Saturn 117884-05-23 06:12 G 44777449.69 44777449.76 44777449.86 0.0278 0.0239

Saturn 117884-08-20 01:10 G 44777538.39 44777538.55 44777538.72 0.0278 0.0055

Saturn 117884-11-16 20:22 G 44777627.20 44777627.35 44777627.50 0.0277 0.0133

Jupiter 117887-06-07 10:46 G 44778559.85 44778559.95 44778560.05 0.0537 0.0351

Jupiter 117887-09-04 22:03 G 44778649.32 44778649.42 44778649.52 0.0534 0.0364

Mars 117892-01-07 23:43 G 44780235.38 44780235.49 44780235.60 0.1905 0.0653

Moon 117893-09-12 01:10 G 44780848.46 44780848.55 44780848.64 0.2662 0.1546

Earth 117893-09-12 01:39 G 44780848.48 44780848.57 44780848.66 0.2667 0.1573 *

Jupiter 117893-10-16 07:53 G 44780882.66 44780882.83 44780883.00 0.0492 0.0002

Moon 117896-03-14 04:46 G 44781762.57 44781762.70 44781762.84 0.2660 0.0999

Earth 117896-03-14 06:12 G 44781762.62 44781762.76 44781762.90 0.2664 0.0881 *

Jupiter 117899-03-26 13:39 G 44782870.05 44782870.07 44782870.09 0.0538 0.0528

Jupiter 117899-06-24 01:24 G 44782959.44 44782959.56 44782959.69 0.0535 0.0199

Saturn 117899-09-18 08:36 G 44783045.74 44783045.86 44783045.99 0.0281 0.0126

Saturn 117899-12-15 21:34 G 44783134.26 44783134.40 44783134.54 0.0281 0.0033

Saturn 117900-03-14 10:17 G 44783222.83 44783222.93 44783223.04 0.0282 0.0189

Mars 117901-05-31 07:10 G 44783665.80 44783665.80 44783665.80 0.1912 0.1909

Mars 117902-06-26 08:07 G 44784056.75 44784056.84 44784056.93 0.1646 0.1360

Jupiter 117905-08-05 07:39 G 44785192.66 44785192.82 44785192.98 0.0492 0.0177

Venus 117907-06-05 02:22 G 44785861.52 44785861.60 44785861.68 0.3716 0.2599

Moon 117909-03-18 08:36 G 44786513.76 44786513.86 44786513.96 0.2671 0.1917

Earth 117909-03-18 09:34 G 44786513.81 44786513.90 44786513.98 0.2666 0.2142 *

Jupiter 117911-04-13 04:46 G 44787269.57 44787269.70 44787269.84 0.0536 0.0034

Mars 117911-11-16 10:17 G 44787486.77 44787486.93 44787487.09 0.1640 0.0162

Mars 117912-09-26 07:39 G 44787801.80 44787801.82 44787801.84 0.1891 0.1848

Venus 117912-12-18 19:53 G 44787885.22 44787885.33 44787885.43 0.3712 0.0771

Moon 117913-09-08 17:00 G 44788149.12 44788149.21 44788149.30 0.2664 0.1657

Earth 117913-09-08 17:15 G 44788149.13 44788149.22 44788149.31 0.2671 0.1670 *

Saturn 117914-01-07 23:00 G 44788270.31 44788270.46 44788270.61 0.0277 0.0129

Saturn 117914-04-06 17:43 G 44788359.08 44788359.24 44788359.41 0.0277 0.0057

Saturn 117914-07-04 12:55 G 44788447.97 44788448.04 44788448.13 0.0277 0.0245

Jupiter 117917-05-24 07:53 G 44789502.71 44789502.83 44789502.95 0.0491 0.0343

Jupiter 117917-08-22 07:10 G 44789592.69 44789592.80 44789592.91 0.0494 0.0364

Venus 117918-07-04 12:55 G 44789908.94 44789909.04 44789909.14 0.3708 0.1002

Pluto 117918-07-12 18:27 G 44789917.21 44789917.27 44789917.36 0.0085 0.0069

Pluto 117918-10-08 19:53 G 44790005.23 44790005.33 44790005.44 0.0085 0.0051

Pluto 117919-01-04 21:05 G 44790093.27 44790093.38 44790093.51 0.0085 0.0034

Pluto 117919-04-02 22:31 G 44790181.31 44790181.44 44790181.57 0.0085 0.0016

Pluto 117919-06-29 23:43 G 44790269.36 44790269.49 44790269.62 0.0085 0.0002

Pluto 117919-09-26 00:41 G 44790357.41 44790357.53 44790357.67 0.0085 0.0019

Pluto 117919-12-23 02:07 G 44790445.47 44790445.59 44790445.71 0.0085 0.0036

Pluto 117920-03-20 03:19 G 44790533.54 44790533.64 44790533.74 0.0084 0.0053

Pluto 117920-06-16 04:31 G 44790621.62 44790621.69 44790621.76 0.0084 0.0070

Mars 117921-04-07 12:41 G 44790916.90 44790917.03 44790917.16 0.1634 0.1010

Mars 117922-02-16 15:48 G 44791232.05 44791232.16 44791232.27 0.1898 0.0689

Jupiter 117923-01-30 07:39 G 44791579.69 44791579.82 44791579.95 0.0536 0.0146

Venus 117924-01-18 05:58 G 44791932.68 44791932.75 44791932.82 0.3705 0.2718

Uranus 117924-04-12 15:48 G 44792018.09 44792018.16 44792018.23 0.0138 0.0121

Uranus 117924-07-09 19:53 G 44792106.23 44792106.33 44792106.43 0.0138 0.0101

Uranus 117924-10-05 23:43 G 44792194.38 44792194.49 44792194.61 0.0139 0.0081

Uranus 117925-01-02 03:48 G 44792282.54 44792282.66 44792282.79 0.0139 0.0061

Uranus 117925-03-31 07:53 G 44792370.69 44792370.83 44792370.97 0.0139 0.0041

Uranus 117925-06-27 11:58 G 44792458.86 44792459.00 44792459.14 0.0139 0.0021

Venus 117925-08-01 14:07 G 44792494.04 44792494.09 44792494.15 0.3660 0.3325

Uranus 117925-09-23 15:48 G 44792547.02 44792547.16 44792547.30 0.0139 0.0002

Uranus 117925-12-20 19:39 G 44792635.18 44792635.32 44792635.47 0.0139 0.0020

Uranus 117926-03-18 23:43 G 44792723.35 44792723.49 44792723.62 0.0139 0.0039

Uranus 117926-06-15 03:34 G 44792811.52 44792811.65 44792811.78 0.0139 0.0058

Uranus 117926-09-11 07:24 G 44792899.70 44792899.81 44792899.93 0.0139 0.0078

Moon 117926-09-11 11:15 G 44792899.85 44792899.97 44792900.08 0.2667 0.0053 *

Earth 117926-09-11 11:58 G 44792899.89 44792900.00 44792900.12 0.2669 0.0170 *

Uranus 117926-12-08 11:15 G 44792987.87 44792987.97 44792988.07 0.0139 0.0097

Uranus 117927-03-06 14:51 G 44793076.06 44793076.12 44793076.21 0.0139 0.0117

Uranus 117927-06-02 18:41 G 44793164.27 44793164.28 44793164.32 0.0139 0.0137

Saturn 117929-02-05 09:05 G 44793777.78 44793777.88 44793777.99 0.0282 0.0187

Saturn 117929-05-04 22:17 G 44793866.29 44793866.43 44793866.57 0.0282 0.0027

Jupiter 117929-06-10 06:55 G 44793902.64 44793902.79 44793902.95 0.0494 0.0188

Saturn 117929-08-01 11:15 G 44793954.84 44793954.97 44793955.09 0.0282 0.0132

Venus 117931-02-15 16:46 G 44794518.06 44794518.20 44794518.35 0.3665 0.0127

Mars 117931-07-09 23:29 G 44794662.37 44794662.48 44794662.59 0.1905 0.0531

Jupiter 117934-11-18 10:17 G 44795889.82 44795889.93 44795890.03 0.0537 0.0330

Jupiter 117935-02-15 21:19 G 44795979.30 44795979.39 44795979.49 0.0534 0.0383

Moon 117939-09-14 06:12 G 44797650.69 44797650.76 44797650.84 0.2673 0.1936

Earth 117939-09-14 06:41 G 44797650.70 44797650.78 44797650.85 0.2666 0.1955 *

Mars 117940-11-29 07:10 G 44798092.76 44798092.80 44798092.85 0.1912 0.1758

Jupiter 117941-03-29 06:41 G 44798212.61 44798212.78 44798212.95 0.0492 0.0013

Mars 117941-12-25 08:51 G 44798483.82 44798483.87 44798483.93 0.1646 0.1544

Moon 117942-03-16 11:58 G 44798564.86 44798565.00 44798565.14 0.2670 0.0354

Earth 117942-03-16 12:12 G 44798564.87 44798565.01 44798565.16 0.2664 0.0293 *

Saturn 117943-05-27 23:15 G 44799002.34 44799002.47 44799002.60 0.0278 0.0176

Saturn 117943-08-24 18:12 G 44799091.09 44799091.26 44799091.43 0.0278 0.0009

Saturn 117943-11-21 13:10 G 44799179.94 44799180.05 44799180.18 0.0277 0.0198

Jupiter 117946-09-06 11:58 G 44800199.98 44800200.00 44800200.03 0.0538 0.0529

Jupiter 117946-12-04 23:58 G 44800289.37 44800289.50 44800289.62 0.0535 0.0198

Mars 117951-05-17 10:46 G 44801913.79 44801913.95 44801914.11 0.1640 0.0325

Neptune 117952-09-13 22:31 G 44802399.40 44802399.44 44802399.50 0.0088 0.0082

Neptune 117952-12-11 00:12 G 44802487.44 44802487.51 44802487.59 0.0088 0.0075

Jupiter 117953-01-15 06:41 G 44802522.62 44802522.78 44802522.94 0.0492 0.0162

Neptune 117953-03-09 01:53 G 44802575.50 44802575.58 44802575.68 0.0088 0.0067

Neptune 117953-06-05 03:34 G 44802663.55 44802663.65 44802663.76 0.0088 0.0060

Neptune 117953-09-01 05:15 G 44802751.61 44802751.72 44802751.83 0.0088 0.0053

Neptune 117953-11-28 06:55 G 44802839.67 44802839.79 44802839.91 0.0088 0.0047

Neptune 117954-02-24 08:22 G 44802927.73 44802927.85 44802927.98 0.0088 0.0040

Neptune 117954-05-23 09:48 G 44803015.79 44803015.91 44803016.05 0.0088 0.0033

Neptune 117954-08-19 11:29 G 44803103.85 44803103.98 44803104.12 0.0088 0.0026

Neptune 117954-11-15 13:10 G 44803191.91 44803192.05 44803192.19 0.0088 0.0019

Neptune 117955-02-11 14:51 G 44803279.98 44803280.12 44803280.26 0.0088 0.0012

Neptune 117955-05-10 16:17 G 44803368.04 44803368.18 44803368.33 0.0088 0.0006

Neptune 117955-08-06 17:58 G 44803456.11 44803456.25 44803456.39 0.0088 0.0002

Neptune 117955-11-02 19:24 G 44803544.17 44803544.31 44803544.46 0.0088 0.0009

Neptune 117956-01-29 21:05 G 44803632.24 44803632.38 44803632.52 0.0088 0.0015

Neptune 117956-04-26 22:31 G 44803720.31 44803720.44 44803720.58 0.0088 0.0022

Neptune 117956-07-23 23:58 G 44803808.37 44803808.50 44803808.64 0.0088 0.0029

Neptune 117956-10-20 01:39 G 44803896.44 44803896.57 44803896.70 0.0088 0.0035

Neptune 117957-01-16 03:05 G 44803984.51 44803984.63 44803984.76 0.0088 0.0042

Neptune 117957-04-14 04:31 G 44804072.58 44804072.69 44804072.82 0.0088 0.0049

Neptune 117957-07-11 06:12 G 44804160.66 44804160.76 44804160.87 0.0088 0.0056

Neptune 117957-10-07 07:39 G 44804248.73 44804248.82 44804248.92 0.0088 0.0062

Neptune 117958-01-03 09:05 G 44804336.80 44804336.88 44804336.98 0.0088 0.0069

Neptune 117958-04-01 10:46 G 44804424.88 44804424.95 44804425.02 0.0088 0.0075

Saturn 117958-06-25 11:43 G 44804509.91 44804509.99 44804510.08 0.0281 0.0222

Neptune 117958-06-28 11:58 G 44804512.97 44804513.00 44804513.06 0.0088 0.0082

Saturn 117958-09-22 00:55 G 44804598.40 44804598.54 44804598.68 0.0281 0.0063

Jupiter 117958-09-23 03:05 G 44804599.49 44804599.63 44804599.77 0.0536 0.0028

Saturn 117958-12-19 13:53 G 44804686.95 44804687.08 44804687.21 0.0281 0.0095

Saturn 117959-03-18 02:22 G 44804775.55 44804775.60 44804775.67 0.0282 0.0251

Moon 117959-09-09 21:19 G 44804951.30 44804951.39 44804951.49 0.2673 0.1456

Earth 117959-09-09 22:03 G 44804951.32 44804951.42 44804951.52 0.2670 0.1281 *

Mars 117960-10-06 13:10 G 44805343.91 44805344.05 44805344.19 0.1635 0.0843

Mars 117961-08-17 15:48 G 44805659.05 44805659.16 44805659.26 0.1898 0.0822

Venus 117964-01-10 00:12 G 44806534.42 44806534.51 44806534.61 0.3715 0.2007

Uranus 117964-11-01 16:03 G 44806831.13 44806831.17 44806831.23 0.0140 0.0134

Jupiter 117964-11-03 06:27 G 44806832.65 44806832.77 44806832.90 0.0491 0.0337

Uranus 117965-01-28 22:17 G 44806919.33 44806919.43 44806919.54 0.0140 0.0109

Jupiter 117965-02-01 05:29 G 44806922.62 44806922.73 44806922.85 0.0494 0.0370

Uranus 117965-04-27 04:17 G 44807007.56 44807007.68 44807007.83 0.0139 0.0086

Uranus 117965-07-24 10:31 G 44807095.80 44807095.94 44807096.11 0.0139 0.0062

Uranus 117965-10-20 17:00 G 44807184.05 44807184.21 44807184.38 0.0139 0.0037

Uranus 117966-01-16 23:29 G 44807272.30 44807272.48 44807272.65 0.0139 0.0013

Uranus 117966-04-15 05:43 G 44807360.57 44807360.74 44807360.91 0.0139 0.0013

Uranus 117966-07-12 12:12 G 44807448.84 44807449.01 44807449.18 0.0139 0.0037

Uranus 117966-10-08 18:27 G 44807537.12 44807537.27 44807537.43 0.0139 0.0062

Uranus 117967-01-05 00:55 G 44807625.41 44807625.54 44807625.68 0.0139 0.0087

Uranus 117967-04-03 07:24 G 44807713.71 44807713.81 44807713.92 0.0139 0.0112

Uranus 117967-06-30 14:07 G 44807802.06 44807802.09 44807802.11 0.0139 0.0137

Venus 117969-07-25 17:43 G 44808558.13 44808558.24 44808558.35 0.3711 0.0214

Jupiter 117970-07-12 06:27 G 44808909.64 44808909.77 44808909.90 0.0537 0.0141

Mars 117971-01-07 23:29 G 44809089.37 44809089.48 44809089.60 0.1905 0.0390

Earth 117972-09-11 17:00 G 44809702.09 44809702.21 44809702.32 0.2668 0.0549

Moon 117972-09-11 17:00 G 44809702.10 44809702.21 44809702.32 0.2674 0.0601 *

Saturn 117972-10-13 21:19 G 44809734.32 44809734.39 44809734.47 0.0278 0.0246

Saturn 117973-01-10 16:03 G 44809823.01 44809823.17 44809823.34 0.0278 0.0063

Saturn 117973-04-09 11:00 G 44809911.81 44809911.96 44809912.12 0.0277 0.0125

Venus 117975-02-08 10:46 G 44810581.85 44810581.95 44810582.05 0.3707 0.1566

Moon 117975-03-14 15:48 G 44810616.11 44810616.16 44810616.20 0.2668 0.2490

Earth 117975-03-14 15:19 G 44810616.12 44810616.14 44810616.15 0.2662 0.2636 *

Jupiter 117976-11-20 05:29 G 44811232.58 44811232.73 44811232.89 0.0493 0.0195

Mars 117980-05-30 07:10 G 44812519.74 44812519.80 44812519.86 0.1912 0.1627

Venus 117980-08-24 03:48 G 44812605.61 44812605.66 44812605.71 0.3704 0.3266

Venus 117982-03-08 14:36 G 44813167.00 44813167.11 44813167.22 0.3661 0.2277

Jupiter 117982-04-30 09:05 G 44813219.77 44813219.88 44813219.99 0.0537 0.0321

Jupiter 117982-07-28 20:22 G 44813309.26 44813309.35 44813309.44 0.0534 0.0392

Earth 117985-09-14 11:29 G 44814452.93 44814452.98 44814453.04 0.2666 0.2331

Moon 117985-09-14 12:27 G 44814452.97 44814453.02 44814453.06 0.2669 0.2397 *

Venus 117987-09-22 17:29 G 44815191.10 44815191.23 44815191.36 0.3666 0.1169

Saturn 117988-02-09 01:24 G 44815330.43 44815330.56 44815330.69 0.0281 0.0124

Earth 117988-03-16 18:12 G 44815367.12 44815367.26 44815367.41 0.2664 0.0310

Moon 117988-03-16 19:53 G 44815367.18 44815367.33 44815367.47 0.2665 0.0433 *

Saturn 117988-05-07 14:22 G 44815418.96 44815419.10 44815419.24 0.0282 0.0035

Saturn 117988-08-04 03:05 G 44815507.53 44815507.63 44815507.73 0.0282 0.0192

Jupiter 117988-09-08 05:29 G 44815542.56 44815542.73 44815542.90 0.0493 0.0021

Mars 117990-11-15 11:29 G 44816340.83 44816340.98 44816341.14 0.1640 0.0507

Jupiter 117994-02-16 11:29 G 44817529.94 44817529.98 44817530.03 0.0538 0.0507

Jupiter 117994-05-16 23:15 G 44817619.35 44817619.47 44817619.60 0.0535 0.0218

Mars 118000-04-06 13:53 G 44819770.93 44819771.08 44819771.23 0.1635 0.0669

Jupiter 118000-06-27 05:29 G 44819852.57 44819852.73 44819852.89 0.0492 0.0152

119TH MILLENNIUM CE

This is a list of transits of Mercury in the 119th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	**118001-02-15 15:48**	**G**	**44820086.06**	**44820086.16**	**44820086.26**	**0.1898**	**0.0960**	
Saturn	**118002-05-30 16:17**	**G**	**44820555.03**	**44820555.18**	**44820555.34**	**0.0278**	**0.0113**	
Saturn	**118002-08-27 11:15**	**G**	**44820643.81**	**44820643.97**	**44820644.14**	**0.0278**	**0.0075**	
Saturn	**118002-11-24 06:41**	**G**	**44820732.73**	**44820732.78**	**44820732.83**	**0.0277**	**0.0263**	
Earth	**118005-09-10 03:05**	**G**	**44821753.52**	**44821753.63**	**44821753.74**	**0.2670**	**0.0895**	
Moon	**118005-09-10 03:34**	**G**	**44821753.54**	**44821753.65**	**44821753.76**	**0.2675**	**0.0890**	*
Jupiter	**118006-03-05 01:24**	**G**	**44821929.43**	**44821929.56**	**44821929.70**	**0.0536**	**0.0029**	
Uranus	**118008-02-04 19:24**	**G**	**44822631.28**	**44822631.31**	**44822631.34**	**0.0138**	**0.0134**	
Uranus	**118008-05-02 23:15**	**G**	**44822719.40**	**44822719.47**	**44822719.56**	**0.0138**	**0.0114**	
Uranus	**118008-07-30 03:19**	**G**	**44822807.54**	**44822807.64**	**44822807.75**	**0.0138**	**0.0094**	
Uranus	**118008-10-26 07:24**	**G**	**44822895.70**	**44822895.81**	**44822895.94**	**0.0139**	**0.0074**	
Uranus	**118009-01-22 11:29**	**G**	**44822983.85**	**44822983.98**	**44822984.12**	**0.0139**	**0.0053**	
Uranus	**118009-04-20 15:34**	**G**	**44823072.01**	**44823072.15**	**44823072.29**	**0.0139**	**0.0033**	
Uranus	**118009-07-17 19:39**	**G**	**44823160.17**	**44823160.32**	**44823160.46**	**0.0139**	**0.0014**	
Uranus	**118009-10-13 23:29**	**G**	**44823248.34**	**44823248.48**	**44823248.62**	**0.0139**	**0.0007**	
Uranus	**118010-01-10 03:19**	**G**	**44823336.51**	**44823336.64**	**44823336.79**	**0.0139**	**0.0027**	
Uranus	**118010-04-08 07:24**	**G**	**44823424.67**	**44823424.81**	**44823424.94**	**0.0139**	**0.0046**	
Uranus	**118010-07-05 11:15**	**G**	**44823512.85**	**44823512.97**	**44823513.09**	**0.0139**	**0.0065**	
Mars	**118010-07-08 23:43**	**G**	**44823516.37**	**44823516.49**	**44823516.61**	**0.1905**	**0.0239**	

Uranus 118010-10-01 14:51 G 44823601.02 44823601.12 44823601.24 0.0139 0.0086

Uranus 118010-12-28 18:55 G 44823689.20 44823689.29 44823689.38 0.0139 0.0104

Uranus 118011-03-26 22:46 G 44823777.39 44823777.45 44823777.51 0.0139 0.0124

Jupiter 118012-04-15 05:43 G 44824162.61 44824162.74 44824162.87 0.0491 0.0321

Jupiter 118012-07-14 04:46 G 44824252.59 44824252.70 44824252.81 0.0494 0.0384

Venus 118015-01-31 04:46 G 44825183.65 44825183.70 44825183.75 0.3717 0.3264

Saturn 118017-06-28 04:17 G 44826062.56 44826062.68 44826062.80 0.0281 0.0156

Saturn 118017-09-24 17:15 G 44826151.08 44826151.22 44826151.36 0.0281 0.0005

Jupiter 118017-12-22 04:31 G 44826239.56 44826239.69 44826239.82 0.0537 0.0148

Saturn 118017-12-22 05:58 G 44826239.64 44826239.75 44826239.87 0.0281 0.0159 *

Earth 118018-09-12 21:48 G 44826504.30 44826504.41 44826504.52 0.2668 0.0923

Moon 118018-09-12 22:31 G 44826504.34 44826504.44 44826504.55 0.2666 0.1121 *

Mars 118019-11-29 07:10 G 44826946.73 44826946.80 44826946.88 0.1912 0.1486

Venus 118020-08-15 22:17 G 44827207.33 44827207.43 44827207.53 0.3714 0.1405

Earth 118021-03-14 21:19 G 44827418.30 44827418.39 44827418.48 0.2662 0.2052

Moon 118021-03-14 22:17 G 44827418.33 44827418.43 44827418.54 0.2658 0.1814 *

Jupiter 118024-05-02 04:03 G 44828562.51 44828562.67 44828562.82 0.0493 0.0199

Venus 118026-03-01 15:34 G 44829231.04 44829231.15 44829231.26 0.3710 0.0389

Jupiter 118029-10-10 07:39 G 44830549.71 44830549.82 44830549.93 0.0537 0.0319

Jupiter 118030-01-07 18:55 G 44830639.21 44830639.29 44830639.38 0.0534 0.0396

Mars 118030-05-16 12:12 G 44830767.86 44830768.01 44830768.16 0.1641 0.0684

Venus 118031-09-15 08:36 G 44831254.77 44831254.86 44831254.95 0.3706 0.2127

Moon 118031-09-15 16:31 G 44831255.17 44831255.19 44831255.20 0.2659 0.2625

Saturn 118031-10-17 14:51 G 44831287.00 44831287.12 44831287.26 0.0278 0.0178

Saturn 118032-01-14 09:48 G 44831375.74 44831375.91 44831376.08 0.0278 0.0007

Saturn 118032-04-12 05:00 G 44831464.59 44831464.71 44831464.83 0.0277 0.0195

Moon 118034-03-17 23:58 G 44832169.36 44832169.50 44832169.64 0.2659 0.0796

Earth 118034-03-18 00:27 G 44832169.38 44832169.52 44832169.65 0.2665 0.0903 *

Jupiter 118036-02-19 04:03 G 44832872.50 44832872.67 44832872.84 0.0492 0.0028

Neptune 118036-08-11 20:51 G 44833047.36 44833047.37 44833047.41 0.0089 0.0088

Neptune 118036-11-07 23:58 G 44833135.43 44833135.50 44833135.58 0.0089 0.0079

Neptune 118037-02-04 02:36 G 44833223.52 44833223.61 44833223.73 0.0089 0.0071

Neptune 118037-05-03 05:43 G 44833311.62 44833311.74 44833311.87 0.0089 0.0062

Neptune 118037-07-30 08:36 G 44833399.73 44833399.86 44833400.01 0.0089 0.0054

Neptune 118037-10-26 11:29 G 44833487.84 44833487.98 44833488.14 0.0089 0.0045

Neptune 118038-01-22 14:22 G 44833575.95 44833576.10 44833576.27 0.0089 0.0036

Neptune 118038-04-20 17:29 G 44833664.07 44833664.23 44833664.40 0.0089 0.0027

Neptune 118038-07-17 20:36 G 44833752.18 44833752.36 44833752.53 0.0089 0.0018

Earth 118038-09-08 13:10 G 44833805.00 44833805.05 44833805.10 0.2671 0.2359

Moon 118038-09-08 13:53 G 44833805.02 44833805.08 44833805.14 0.2675 0.2237 *

Venus 118038-10-13 15:05 G 44833840.00 44833840.13 44833840.26 0.3663 0.1219

Neptune 118038-10-13 23:29 G 44833840.30 44833840.48 44833840.66 0.0089 0.0009

Neptune 118039-01-10 02:36 G 44833928.43 44833928.61 44833928.79 0.0089 0.0002

Neptune 118039-04-08 05:29 G 44834016.55 44834016.73 44834016.91 0.0089 0.0008

Neptune 118039-07-05 08:22 G 44834104.68 44834104.85 44834105.03 0.0089 0.0018

Neptune 118039-10-01 11:29 G 44834192.81 44834192.98 44834193.15 0.0089 0.0026

Mars 118039-10-06 14:22 G 44834197.95 44834198.10 44834198.26 0.1635 0.0501

Neptune 118039-12-28 14:22 G 44834280.94 44834281.10 44834281.27 0.0089 0.0036

Neptune 118040-03-25 17:29 G 44834369.08 44834369.23 44834369.39 0.0089 0.0044

Neptune 118040-06-21 20:36 G 44834457.22 44834457.36 44834457.51 0.0089 0.0053

Mars 118040-08-16 15:48 G 44834513.07 44834513.16 44834513.25 0.1898 0.1097

Neptune 118040-09-17 23:29 G 44834545.36 44834545.48 44834545.62 0.0089 0.0063

Neptune 118040-12-15 02:51 G 44834633.51 44834633.62 44834633.72 0.0089 0.0072

Neptune 118041-03-13 05:29 G 44834721.67 44834721.73 44834721.82 0.0089 0.0081

Jupiter 118041-07-29 10:17 G 44834859.89 44834859.93 44834859.98 0.0538 0.0500

Jupiter 118041-10-26 22:03 G 44834949.30 44834949.42 44834949.55 0.0535 0.0225

Venus 118044-04-28 17:58 G 44835864.15 44835864.25 44835864.36 0.3667 0.2291

Saturn 118046-11-15 04:46 G 44836794.61 44836794.70 44836794.79 0.0281 0.0217

Saturn 118047-02-11 17:58 G 44836883.11 44836883.25 44836883.38 0.0281 0.0058

Saturn 118047-05-11 06:41 G 44836971.65 44836971.78 44836971.91 0.0282 0.0101

Saturn 118047-08-07 19:24 G 44837060.26 44837060.31 44837060.37 0.0282 0.0256

Jupiter 118047-12-08 04:03 G 44837182.51 44837182.67 44837182.83 0.0492 0.0145

Uranus 118048-11-21 23:58 G 44837532.43 44837532.50 44837532.59 0.0140 0.0125

Uranus 118049-02-18 06:12 G 44837620.65 44837620.76 44837620.88 0.0140 0.0101

Uranus 118049-05-17 12:27 G 44837708.88 44837709.02 44837709.17 0.0139 0.0076

Uranus 118049-08-13 18:41 G 44837797.12 44837797.28 44837797.44 0.0139 0.0052

Uranus 118049-11-10 00:55 G 44837885.37 44837885.54 44837885.72 0.0139 0.0028

Mars 118050-01-06 23:43 G 44837943.37 44837943.49 44837943.60 0.1905 0.0131

Uranus 118050-02-06 07:24 G 44837973.63 44837973.81 44837973.98 0.0139 0.0004

Uranus 118050-05-05 13:39 G 44838061.90 44838062.07 44838062.24 0.0139 0.0022

Uranus 118050-08-01 20:07 G 44838150.17 44838150.34 44838150.50 0.0139 0.0046

Uranus 118050-10-29 02:22 G 44838238.45 44838238.60 44838238.76 0.0139 0.0071

Uranus 118051-01-25 08:51 G 44838326.75 44838326.87 44838327.00 0.0139 0.0096

Uranus 118051-04-23 15:19 G 44838415.06 44838415.14 44838415.23 0.0139 0.0121

Earth 118051-09-11 08:07 G 44838555.72 44838555.84 44838555.95 0.2670 0.0513

Moon 118051-09-11 08:36 G 44838555.74 44838555.86 44838555.97 0.2664 0.0442 *

Jupiter 118053-08-15 00:55 G 44839259.40 44839259.54 44839259.68 0.0536 0.0047

Mars 118059-05-30 07:10 G 44841373.72 44841373.80 44841373.89 0.1912 0.1345

Jupiter 118059-09-26 04:31 G 44841492.56 44841492.69 44841492.81 0.0491 0.0313

Jupiter 118059-12-25 03:34 G 44841582.55 44841582.65 44841582.75 0.0494 0.0394

Saturn 118061-03-05 15:05 G 44842019.03 44842019.13 44842019.22 0.0278 0.0230

Saturn 118061-06-02 09:48 G 44842107.74 44842107.91 44842108.08 0.0278 0.0045

Saturn 118061-08-30 04:46 G 44842196.56 44842196.70 44842196.85 0.0278 0.0143

Moon 118064-09-13 02:22 G 44843306.50 44843306.60 44843306.70 0.2662 0.1233

Earth 118064-09-13 02:51 G 44843306.52 44843306.62 44843306.72 0.2668 0.1303 *

Jupiter 118065-06-03 02:51 G 44843569.49 44843569.62 44843569.75 0.0537 0.0149

Moon 118067-03-16 02:22 G 44844220.49 44844220.60 44844220.71 0.2658 0.1665

Earth 118067-03-16 03:19 G 44844220.52 44844220.64 44844220.76 0.2663 0.1469 *

Pluto 118068-03-18 18:27 G 44844589.21 44844589.27 44844589.37 0.0059 0.0053

Pluto 118068-06-14 20:07 G 44844677.22 44844677.34 44844677.47 0.0059 0.0044

Pluto 118068-09-10 21:05 G 44844765.25 44844765.38 44844765.56 0.0059 0.0036

Pluto 118068-12-07 22:31 G 44844853.28 44844853.44 44844853.64 0.0059 0.0028

Pluto 118069-03-06 00:12 G 44844941.33 44844941.51 44844941.70 0.0059 0.0018

Pluto 118069-06-02 01:39 G 44845029.38 44845029.57 44845029.77 0.0059 0.0009

Pluto 118069-08-29 03:05 G 44845117.43 44845117.63 44845117.83 0.0059 0.0001

Mars 118069-11-14 12:41 G 44845194.89 44845195.03 44845195.17 0.1640 0.0847

Pluto 118069-11-25 04:17 G 44845205.49 44845205.68 44845205.88 0.0059 0.0009

Pluto 118070-02-21 05:29 G 44845293.56 44845293.73 44845293.94 0.0059 0.0018

Pluto 118070-05-20 06:55 G 44845381.63 44845381.79 44845381.98 0.0060 0.0026

Pluto 118070-08-16 08:07 G 44845469.70 44845469.84 44845470.02 0.0060 0.0036

Pluto 118070-11-12 10:03 G 44845557.79 44845557.92 44845558.05 0.0060 0.0044

Pluto 118071-02-08 11:29 G 44845645.89 44845645.98 44845646.07 0.0060 0.0053

Jupiter 118071-07-15 04:31 G 44845802.67 44845802.69 44845802.73 0.0490 0.0479

Venus 118071-09-07 02:51 G 44845856.54 44845856.62 44845856.69 0.3717 0.2657

Jupiter 118071-10-13 03:05 G 44845892.48 44845892.63 44845892.78 0.0493 0.0214

Saturn 118076-04-03 07:53 G 44847526.77 44847526.83 44847526.90 0.0280 0.0246

Saturn 118076-06-30 21:05 G 44847615.25 44847615.38 44847615.52 0.0281 0.0086

Saturn 118076-09-27 10:03 G 44847703.78 44847703.92 44847704.06 0.0281 0.0071

Saturn 118076-12-24 22:46 G 44847792.37 44847792.45 44847792.53 0.0281 0.0227

Jupiter 118077-03-22 05:29 G 44847879.63 44847879.73 44847879.84 0.0538 0.0330

Venus 118077-03-22 20:07 G 44847880.24 44847880.34 44847880.45 0.3713 0.0826

Jupiter 118077-06-19 17:00 G 44847969.12 44847969.21 44847969.30 0.0535 0.0388

Mars 118079-04-06 15:05 G 44848624.97 44848625.13 44848625.28 0.1635 0.0334

Mars 118080-02-15 15:48 G 44848940.07 44848940.16 44848940.25 0.1897 0.1234

Moon 118080-03-18 05:15 G 44848971.59 44848971.72 44848971.84 0.2669 0.1366

Earth 118080-03-18 06:27 G 44848971.65 44848971.77 44848971.89 0.2665 0.1507 *

Venus 118082-10-06 13:24 G 44849903.96 44849904.06 44849904.17 0.3709 0.0961

Jupiter 118083-08-01 02:22 G 44850202.43 44850202.60 44850202.77 0.0492 0.0030

Moon 118084-09-08 18:12 G 44850607.18 44850607.26 44850607.33 0.2665 0.2011

Earth 118084-09-08 18:12 G 44850607.18 44850607.26 44850607.33 0.2671 0.1968 *

Venus 118088-04-21 06:27 G 44851927.70 44851927.77 44851927.84 0.3706 0.2683

Mars 118088-08-26 17:43 G 44852055.17 44852055.24 44852055.30 0.1630 0.1474

Jupiter 118089-01-08 08:36 G 44852189.82 44852189.86 44852189.91 0.0538 0.0503

Jupiter 118089-04-07 20:36 G 44852279.24 44852279.36 44852279.48 0.0535 0.0224

Mars 118089-07-07 23:43 G 44852370.37 44852370.49 44852370.60 0.1905 0.0062

Venus 118089-11-03 12:55 G 44852489.00 44852489.04 44852489.08 0.3659 0.3492

Saturn 118090-10-20 08:51 G 44852839.72 44852839.87 44852840.04 0.0278 0.0105

Saturn 118091-01-17 03:48 G 44852928.50 44852928.66 44852928.83 0.0278 0.0082

Saturn 118091-04-15 23:00 G 44853017.43 44853017.46 44853017.50 0.0277 0.0270

Uranus 118092-02-25 02:36 G 44853332.57 44853332.61 44853332.68 0.0138 0.0128

Uranus 118092-05-23 06:41 G 44853420.70 44853420.78 44853420.88 0.0138 0.0108

Uranus 118092-08-19 10:46 G 44853508.85 44853508.95 44853509.07 0.0138 0.0088

Uranus 118092-11-15 15:05 G 44853597.00 44853597.13 44853597.25 0.0139 0.0067

Uranus 118093-02-11 18:55 G 44853685.16 44853685.29 44853685.43 0.0139 0.0047

Uranus 118093-05-10 23:00 G 44853773.32 44853773.46 44853773.60 0.0139 0.0027

Uranus 118093-08-07 03:05 G 44853861.48 44853861.63 44853861.77 0.0139 0.0008

Uranus 118093-11-03 06:55 G 44853949.65 44853949.79 44853949.93 0.0139 0.0013

Uranus 118094-01-30 10:46 G 44854037.82 44854037.95 44854038.09 0.0139 0.0033

Uranus 118094-04-28 14:36 G 44854125.99 44854126.11 44854126.25 0.0139 0.0052

Uranus 118094-07-25 18:41 G 44854214.16 44854214.28 44854214.40 0.0139 0.0071

Uranus 118094-10-21 22:17 G 44854302.34 44854302.43 44854302.55 0.0139 0.0091

Uranus 118095-01-18 02:07 G 44854390.52 44854390.59 44854390.68 0.0139 0.0111

Uranus 118095-04-16 06:12 G 44854478.71 44854478.76 44854478.81 0.0139 0.0130

Jupiter 118095-05-20 02:22 G 44854512.44 44854512.60 44854512.77 0.0492 0.0141

Venus 118095-05-20 15:34 G 44854513.01 44854513.15 44854513.29 0.3664 0.0147

Moon 118097-09-11 12:27 G 44855357.90 44855358.02 44855358.13 0.2666 0.0187

Earth 118097-09-11 13:10 G 44855357.93 44855358.05 44855358.16 0.2669 0.0157 *

Mars 118098-11-28 07:24 G 44855800.72 44855800.81 44855800.90 0.1911 0.1201

Venus 118100-12-04 18:41 G 44856537.23 44856537.28 44856537.33 0.3669 0.3422

Jupiter 118101-01-25 23:43 G 44856589.35 44856589.49 44856589.62 0.0536 0.0054

Saturn 118105-11-18 21:34 G 44858347.28 44858347.40 44858347.53 0.0281 0.0147

Saturn 118106-02-15 10:46 G 44858435.81 44858435.95 44858436.09 0.0281 0.0015

Saturn 118106-05-14 23:29 G 44858524.37 44858524.48 44858524.59 0.0282 0.0169

Jupiter 118107-03-09 02:36 G 44858822.48 44858822.61 44858822.74 0.0491 0.0310

Jupiter 118107-06-07 01:39 G 44858912.48 44858912.57 44858912.68 0.0494 0.0397

Mars 118109-05-16 13:24 G 44859621.93 44859622.06 44859622.18 0.1641 0.1030

Moon 118110-09-15 07:24 G 44860108.71 44860108.81 44860108.90 0.2673 0.1538

Earth 118110-09-15 07:53 G 44860108.74 44860108.83 44860108.92 0.2667 0.1688 *

Jupiter 118112-11-14 02:07 G 44860899.46 44860899.59 44860899.73 0.0536 0.0132

Moon 118113-03-17 08:51 G 44861022.74 44861022.87 44861023.01 0.2670 0.1062

Earth 118113-03-17 09:19 G 44861022.76 44861022.89 44861023.03 0.2663 0.0883 *

Neptune 118117-03-15 19:53 G 44862482.32 44862482.33 44862482.37 0.0088 0.0087

Neptune 118117-06-11 21:34 G 44862570.35 44862570.40 44862570.47 0.0088 0.0080

Neptune 118117-09-07 23:15 G 44862658.40 44862658.47 44862658.56 0.0088 0.0072

Neptune 118117-12-05 00:55 G 44862746.45 44862746.54 44862746.64 0.0088 0.0065

Neptune 118118-03-03 02:36 G 44862834.51 44862834.61 44862834.72 0.0088 0.0058

Neptune 118118-05-30 04:17 G 44862922.57 44862922.68 44862922.80 0.0088 0.0051

Neptune 118118-08-26 05:58 G 44863010.63 44863010.75 44863010.87 0.0088 0.0044

Mars 118118-10-06 15:34 G 44863051.99 44863052.15 44863052.31 0.1635 0.0161

Neptune 118118-11-22 07:24 G 44863098.69 44863098.81 44863098.95 0.0088 0.0038

Jupiter 118118-12-26 03:05 G 44863132.59 44863132.63 44863132.68 0.0491 0.0473

Neptune 118119-02-18 09:05 G 44863186.75 44863186.88 44863187.02 0.0088 0.0031

Jupiter 118119-03-26 01:39 G 44863222.42 44863222.57 44863222.72 0.0493 0.0221

Neptune 118119-05-17 10:46 G 44863274.81 44863274.95 44863275.09 0.0088 0.0024

Neptune 118119-08-13 12:12 G 44863362.88 44863363.01 44863363.15 0.0088 0.0017

Mars 118119-08-17 15:48 G 44863367.08 44863367.16 44863367.24 0.1897 0.1366

Neptune 118119-11-09 13:53 G 44863450.94 44863451.08 44863451.22 0.0088 0.0010

Neptune 118120-02-05 15:34 G 44863539.01 44863539.15 44863539.29 0.0088 0.0004

Saturn 118120-03-09 08:51 G 44863571.73 44863571.87 44863572.01 0.0278 0.0158

Neptune 118120-05-03 17:00 G 44863627.07 44863627.21 44863627.35 0.0088 0.0004

Saturn 118120-06-06 03:48 G 44863660.49 44863660.66 44863660.83 0.0278 0.0028

Neptune 118120-07-30 18:27 G 44863715.14 44863715.27 44863715.42 0.0088 0.0011

Saturn 118120-09-02 22:46 G 44863749.35 44863749.45 44863749.56 0.0277 0.0216

Neptune 118120-10-26 20:07 G 44863803.20 44863803.34 44863803.48 0.0088 0.0017

Neptune 118121-01-22 21:34 G 44863891.27 44863891.40 44863891.54 0.0088 0.0024

Neptune 118121-04-20 23:00 G 44863979.34 44863979.46 44863979.60 0.0088 0.0032

Neptune 118121-07-18 00:55 G 44864067.41 44864067.54 44864067.66 0.0088 0.0038

Neptune 118121-10-14 02:07 G 44864155.48 44864155.59 44864155.72 0.0088 0.0045

Neptune 118122-01-10 03:34 G 44864243.55 44864243.65 44864243.78 0.0088 0.0052

Neptune 118122-04-08 05:29 G 44864331.62 44864331.73 44864331.83 0.0088 0.0058

Neptune 118122-07-05 06:41 G 44864419.70 44864419.78 44864419.88 0.0088 0.0064

Neptune 118122-10-01 08:07 G 44864507.77 44864507.84 44864507.93 0.0088 0.0071

Neptune 118122-12-28 09:48 G 44864595.85 44864595.91 44864595.98 0.0088 0.0077

Neptune 118123-03-26 11:15 G 44864683.94 44864683.97 44864684.02 0.0088 0.0084

Jupiter 118124-09-02 03:48 G 44865209.56 44865209.66 44865209.77 0.0537 0.0332

Jupiter 118124-11-30 15:19 G 44865299.05 44865299.14 44865299.23 0.0534 0.0384

Earth 118126-03-20 12:27 G 44865773.94 44865774.02 44865774.11 0.2665 0.2104

Moon 118126-03-20 13:24 G 44865773.99 44865774.06 44865774.13 0.2670 0.2345 *

Mars 118128-02-26 18:12 G 44866482.16 44866482.26 44866482.35 0.1630 0.1313

Venus 118128-04-14 00:41 G 44866529.44 44866529.53 44866529.62 0.3716 0.2056

Mars 118129-01-06 23:43 G 44866797.38 44866797.49 44866797.61 0.1904 0.0198

Moon 118130-09-10 22:17 G 44867409.35 44867409.43 44867409.52 0.2671 0.1766

Earth 118130-09-10 23:15 G 44867409.37 44867409.47 44867409.56 0.2671 0.1575 *

Jupiter 118131-01-12 01:24 G 44867532.39 44867532.56 44867532.73 0.0492 0.0044

Uranus 118132-09-16 01:53 G 44868145.58 44868145.58 44868145.59 0.0140 0.0140

Uranus 118132-12-13 07:53 G 44868233.75 44868233.83 44868233.94 0.0140 0.0116

Uranus 118133-03-11 14:07 G 44868321.97 44868322.09 44868322.23 0.0140 0.0092

Uranus 118133-06-07 20:22 G 44868410.21 44868410.35 44868410.51 0.0140 0.0068

Uranus 118133-09-04 02:36 G 44868498.45 44868498.61 44868498.78 0.0139 0.0043

Venus 118133-10-28 18:12 G 44868553.15 44868553.26 44868553.37 0.3712 0.0245

Uranus 118133-12-01 09:05 G 44868586.70 44868586.88 44868587.05 0.0139 0.0019

Uranus 118134-02-27 15:19 G 44868674.97 44868675.14 44868675.32 0.0139 0.0006

Uranus 118134-05-26 21:34 G 44868763.23 44868763.40 44868763.58 0.0139 0.0031

Uranus 118134-08-23 04:03 G 44868851.51 44868851.67 44868851.83 0.0139 0.0056

Uranus 118134-11-19 10:31 G 44868939.79 44868939.94 44868940.08 0.0139 0.0080

Uranus 118135-02-15 16:46 G 44869028.09 44869028.20 44869028.32 0.0139 0.0106

Saturn 118135-04-08 01:10 G 44869079.44 44869079.55 44869079.66 0.0281 0.0173

Uranus 118135-05-14 23:29 G 44869116.42 44869116.48 44869116.54 0.0139 0.0130

Saturn 118135-07-05 14:07 G 44869167.95 44869168.09 44869168.23 0.0281 0.0014

Saturn 118135-10-02 02:51 G 44869256.51 44869256.62 44869256.75 0.0281 0.0143

Jupiter 118136-06-21 06:27 G 44869519.73 44869519.77 44869519.81 0.0538 0.0516

Jupiter 118136-09-18 18:27 G 44869609.14 44869609.27 44869609.39 0.0535 0.0213

Mars   118138-05-30 07:10 G 44870227.71 44870227.80 44870227.90 0.1911 0.1073

Venus   118139-05-14 11:15 G 44870576.88 44870576.97 44870577.07 0.3708 0.1531

Jupiter 118142-10-31 00:41 G 44871842.37 44871842.53 44871842.69 0.0492 0.0140

Moon   118143-09-13 17:58 G 44872160.13 44872160.25 44872160.36 0.2676 0.0309

Earth   118143-09-13 17:58 G 44872160.14 44872160.25 44872160.37 0.2669 0.0266 *

Venus   118144-11-27 04:17 G 44872600.63 44872600.68 44872600.73 0.3705 0.3231

Venus   118146-06-11 13:24 G 44873161.96 44873162.06 44873162.16 0.3661 0.2461

Jupiter 118148-07-07 21:48 G 44873919.27 44873919.41 44873919.54 0.0536 0.0047

Mars   118148-11-14 13:53 G 44874048.97 44874049.08 44874049.19 0.1641 0.1206

Saturn 118149-07-27 08:51 G 44874303.77 44874303.87 44874303.99 0.0278 0.0210

Saturn 118149-10-24 03:34 G 44874392.48 44874392.65 44874392.83 0.0278 0.0027

Saturn 118150-01-20 22:46 G 44874481.31 44874481.45 44874481.59 0.0277 0.0162

Venus   118151-12-26 16:03 G 44875186.03 44875186.17 44875186.30 0.3665 0.0928

Jupiter 118154-08-19 00:55 G 44876152.41 44876152.54 44876152.67 0.0491 0.0308

Jupiter 118154-11-16 23:43 G 44876242.39 44876242.49 44876242.59 0.0494 0.0397

Earth   118156-09-15 12:41 G 44876910.96 44876911.03 44876911.11 0.2667 0.2062

Moon   118156-09-15 13:24 G 44876910.99 44876911.06 44876911.13 0.2670 0.2124 *

Mars   118158-04-06 16:17 G 44877479.01 44877479.18 44877479.34 0.1636 0.0036

Mars 118159-02-15 15:48 G 44877794.10 44877794.16 44877794.23 0.1897 0.1512

Earth 118159-03-18 15:34 G 44877825.00 44877825.15 44877825.29 0.2664 0.0302

Moon 118159-03-18 16:46 G 44877825.06 44877825.20 44877825.35 0.2666 0.0108 *

Jupiter 118160-04-26 00:41 G 44878229.40 44878229.53 44878229.66 0.0537 0.0130

Saturn 118164-08-25 01:39 G 44879811.50 44879811.57 44879811.65 0.0281 0.0231

Saturn 118164-11-21 14:51 G 44879899.98 44879900.12 44879900.26 0.0281 0.0072

Pluto 118164-12-01 06:27 G 44879909.76 44879909.77 44879909.80 0.0085 0.0084

Saturn 118165-02-18 03:48 G 44879988.53 44879988.66 44879988.79 0.0282 0.0086

Pluto 118165-02-27 07:39 G 44879997.75 44879997.82 44879997.91 0.0085 0.0066

Saturn 118165-05-17 16:31 G 44880077.12 44880077.19 44880077.26 0.0282 0.0242

Pluto 118165-05-26 09:05 G 44880085.77 44880085.88 44880085.99 0.0085 0.0048

Pluto 118165-08-22 10:17 G 44880173.81 44880173.93 44880174.06 0.0085 0.0031

Pluto 118165-11-18 11:29 G 44880261.85 44880261.98 44880262.11 0.0085 0.0014

Pluto 118166-02-14 12:41 G 44880349.90 44880350.03 44880350.17 0.0085 0.0005

Pluto 118166-05-13 13:53 G 44880437.96 44880438.08 44880438.21 0.0085 0.0021

Jupiter 118166-06-07 01:10 G 44880462.51 44880462.55 44880462.59 0.0491 0.0474

Pluto 118166-08-09 15:05 G 44880526.02 44880526.13 44880526.25 0.0084 0.0038

Jupiter 118166-09-04 23:29 G 44880552.33 44880552.48 44880552.64 0.0493 0.0220

Pluto 118166-11-05 16:17 G 44880614.09 44880614.18 44880614.28 0.0084 0.0055

Pluto 118167-02-01 17:29 G 44880702.17 44880702.23 44880702.30 0.0084 0.0072

Mars 118167-08-27 18:55 G 44880909.17 44880909.29 44880909.40 0.1630 0.1137

Mars 118168-07-07 23:43 G 44881224.37 44881224.49 44881224.60 0.1904 0.0304

Jupiter 118172-02-13 03:19 G 44882539.53 44882539.64 44882539.75 0.0537 0.0314

Jupiter 118172-05-12 14:36 G 44882629.02 44882629.11 44882629.20 0.0534 0.0400

Uranus 118176-03-17 10:17 G 44884033.87 44884033.93 44884034.01 0.0138 0.0120

Uranus 118176-06-13 14:36 G 44884122.01 44884122.11 44884122.21 0.0138 0.0100

Uranus 118176-09-09 18:41 G 44884210.16 44884210.28 44884210.40 0.0138 0.0080

Earth 118176-09-11 04:03 G 44884211.57 44884211.67 44884211.78 0.2671 0.1186

Moon 118176-09-11 04:31 G 44884211.58 44884211.69 44884211.79 0.2676 0.1119 *

Uranus 118176-12-06 22:46 G 44884298.32 44884298.45 44884298.58 0.0139 0.0060

Uranus 118177-03-05 02:51 G 44884386.48 44884386.62 44884386.75 0.0139 0.0040

Uranus 118177-06-01 06:41 G 44884474.64 44884474.78 44884474.92 0.0139 0.0020

Uranus 118177-08-28 10:46 G 44884562.80 44884562.95 44884563.09 0.0139 0.0002

Uranus 118177-11-24 14:36 G 44884650.97 44884651.11 44884651.25 0.0139 0.0020

Mars 118177-11-28 07:24 G 44884654.71 44884654.81 44884654.91 0.1911 0.0916

Uranus 118178-02-20 18:27 G 44884739.14 44884739.27 44884739.41 0.0139 0.0040

Uranus 118178-05-19 22:17 G 44884827.31 44884827.43 44884827.57 0.0139 0.0059

Jupiter 118178-06-23 23:43 G 44884862.32 44884862.49 44884862.66 0.0492 0.0047

Uranus 118178-08-16 02:22 G 44884915.48 44884915.60 44884915.72 0.0139 0.0078

Uranus 118178-11-12 05:58 G 44885003.66 44885003.75 44885003.86 0.0139 0.0099

Saturn 118178-12-14 08:51 G 44885035.82 44885035.87 44885035.92 0.0278 0.0264

Uranus 118179-02-08 10:03 G 44885091.85 44885091.92 44885092.00 0.0139 0.0117

Saturn 118179-03-13 03:19 G 44885124.48 44885124.64 44885124.81 0.0278 0.0081

Venus 118179-05-06 05:15 G 44885178.67 44885178.72 44885178.77 0.3718 0.3321

Uranus 118179-05-07 13:53 G 44885180.06 44885180.08 44885180.11 0.0139 0.0136

Saturn 118179-06-09 22:17 G 44885213.28 44885213.43 44885213.59 0.0278 0.0107

Jupiter 118183-12-02 04:31 G 44886849.67 44886849.69 44886849.73 0.0538 0.0520

Jupiter 118184-02-29 16:46 G 44886939.07 44886939.20 44886939.32 0.0535 0.0209

Venus 118184-11-18 22:46 G 44887202.35 44887202.45 44887202.55 0.3715 0.1456

Mars 118188-05-15 14:22 G 44888476.01 44888476.10 44888476.19 0.1641 0.1371

Earth 118189-09-13 23:00 G 44888962.35 44888962.46 44888962.57 0.2669 0.0650

Moon 118189-09-13 23:43 G 44888962.38 44888962.49 44888962.60 0.2669 0.0755 *

Jupiter 118190-04-11 23:29 G 44889172.32 44889172.48 44889172.65 0.0492 0.0128

Venus 118190-06-04 16:03 G 44889226.06 44889226.17 44889226.28 0.3711 0.0340

Earth 118192-03-15 18:41 G 44889876.26 44889876.28 44889876.31 0.2662 0.2606

Moon 118192-03-15 20:07 G 44889876.29 44889876.34 44889876.39 0.2659 0.2474 *

Saturn 118194-01-12 05:15 G 44890543.67 44890543.72 44890543.78 0.0281 0.0256

Saturn 118194-04-10 18:27 G 44890632.14 44890632.27 44890632.40 0.0281 0.0097

Saturn 118194-07-08 07:24 G 44890720.67 44890720.81 44890720.95 0.0281 0.0061

Saturn 118194-10-04 20:07 G 44890809.26 44890809.34 44890809.43 0.0281 0.0217

Jupiter 118195-12-18 19:24 G 44891249.18 44891249.31 44891249.45 0.0536 0.0036

Venus 118195-12-19 09:05 G 44891249.79 44891249.88 44891249.97 0.3707 0.2087

Mars 118197-10-05 16:46 G 44891906.04 44891906.20 44891906.36 0.1636 0.0185

Mars 118198-08-16 15:48 G 44892221.11 44892221.16 44892221.22 0.1897 0.1642

Neptune 118201-05-10 18:41 G 44893218.25 44893218.28 44893218.33 0.0089 0.0086

Neptune 118201-08-06 21:19 G 44893306.33 44893306.39 44893306.50 0.0089 0.0078

Neptune 118201-11-03 00:27 G 44893394.42 44893394.52 44893394.64 0.0089 0.0069

Jupiter 118202-01-29 23:00 G 44893482.33 44893482.46 44893482.59 0.0491 0.0309

Neptune 118202-01-30 03:34 G 44893482.52 44893482.65 44893482.78 0.0089 0.0060 *

Neptune 118202-04-28 06:12 G 44893570.63 44893570.76 44893570.92 0.0089 0.0052

Jupiter 118202-04-29 21:48 G 44893572.31 44893572.41 44893572.51 0.0493 0.0395

Neptune 118202-07-25 09:05 G 44893658.74 44893658.88 44893659.05 0.0089 0.0044

Earth 118202-09-17 17:43 G 44893713.20 44893713.24 44893713.28 0.2667 0.2437

Moon 118202-09-17 17:58 G 44893713.21 44893713.25 44893713.29 0.2660 0.2483 *

Neptune 118202-10-21 12:12 G 44893746.85 44893747.01 44893747.18 0.0089 0.0034

Venus 118203-01-17 13:39 G 44893834.94 44893835.07 44893835.20 0.3662 0.1437

Neptune 118203-01-17 15:19 G 44893834.97 44893835.14 44893835.31 0.0089 0.0025 *

Neptune 118203-04-15 17:58 G 44893923.09 44893923.25 44893923.44 0.0089 0.0018

Neptune 118203-07-12 21:05 G 44894011.21 44894011.38 44894011.56 0.0089 0.0008

Neptune 118203-10-09 00:12 G 44894099.33 44894099.51 44894099.69 0.0089 0.0001

Neptune 118204-01-05 03:05 G 44894187.46 44894187.63 44894187.81 0.0089 0.0010

Neptune 118204-04-02 05:58 G 44894275.58 44894275.75 44894275.93 0.0089 0.0019

Neptune 118204-06-29 09:05 G 44894363.71 44894363.88 44894364.05 0.0089 0.0028

Neptune 118204-09-25 11:58 G 44894451.85 44894452.00 44894452.17 0.0089 0.0037

Neptune 118204-12-22 14:51 G 44894539.98 44894540.12 44894540.29 0.0089 0.0047

Moon 118205-03-19 21:19 G 44894627.24 44894627.39 44894627.54 0.2657 0.0344

Earth 118205-03-19 21:34 G 44894627.25 44894627.40 44894627.54 0.2664 0.0303 *

Neptune 118205-03-20 17:58 G 44894628.12 44894628.25 44894628.40 0.0089 0.0055

Neptune 118205-06-16 21:05 G 44894716.27 44894716.38 44894716.52 0.0089 0.0064

Neptune 118205-09-13 00:12 G 44894804.42 44894804.51 44894804.62 0.0089 0.0073

Neptune 118205-12-10 03:19 G 44894892.58 44894892.64 44894892.71 0.0089 0.0083

Mars 118207-02-26 19:24 G 44895336.18 44895336.31 44895336.44 0.1630 0.0971

Jupiter 118207-10-07 22:46 G 44895559.32 44895559.45 44895559.58 0.0537 0.0139

Mars 118208-01-07 23:43 G 44895651.38 44895651.49 44895651.61 0.1904 0.0451

Saturn 118208-07-31 04:03 G 44895856.53 44895856.67 44895856.83 0.0278 0.0125

Venus 118208-08-02 16:31 G 44895859.07 44895859.19 44895859.31 0.3666 0.2036

Saturn 118208-10-27 23:00 G 44895945.29 44895945.46 44895945.63 0.0278 0.0061

Saturn 118209-01-24 17:58 G 44896034.18 44896034.25 44896034.33 0.0277 0.0249

Earth 118209-09-10 14:07 G 44896263.08 44896263.09 44896263.10 0.2672 0.2659

Moon 118209-09-10 14:51 G 44896263.10 44896263.12 44896263.14 0.2676 0.2624 *

Jupiter 118213-11-17 23:15 G 44897792.43 44897792.47 44897792.51 0.0490 0.0475

Jupiter 118214-02-15 21:34 G 44897882.25 44897882.40 44897882.55 0.0493 0.0217

Uranus 118216-10-07 10:03 G 44898846.86 44898846.92 44898846.98 0.0140 0.0130

Uranus 118217-01-03 15:48 G 44898935.07 44898935.16 44898935.29 0.0140 0.0107

Uranus 118217-04-01 22:03 G 44899023.29 44899023.42 44899023.57 0.0140 0.0083

Mars 118217-05-30 07:24 G 44899081.70 44899081.81 44899081.92 0.1911 0.0788

Uranus 118217-06-29 04:31 G 44899111.53 44899111.69 44899111.85 0.0140 0.0058

Uranus 118217-09-25 10:46 G 44899199.78 44899199.95 44899200.12 0.0139 0.0034

Uranus 118217-12-22 17:00 G 44899288.04 44899288.21 44899288.39 0.0139 0.0010

Uranus 118218-03-20 23:29 G 44899376.30 44899376.48 44899376.65 0.0139 0.0016

Uranus 118218-06-17 05:43 G 44899464.57 44899464.74 44899464.91 0.0139 0.0040

Uranus 118218-09-13 11:58 G 44899552.85 44899553.00 44899553.16 0.0139 0.0065

Uranus 118218-12-10 18:12 G 44899641.14 44899641.26 44899641.41 0.0139 0.0091

Uranus 118219-03-09 00:41 G 44899729.45 44899729.53 44899729.64 0.0139 0.0115

Jupiter 118219-07-27 01:39 G 44899869.46 44899869.57 44899869.68 0.0537 0.0317

Jupiter 118219-10-24 12:55 G 44899958.96 44899959.04 44899959.13 0.0534 0.0399

Earth 118222-09-13 09:05 G 44901013.77 44901013.88 44901013.99 0.2670 0.0793

Moon 118222-09-13 09:48 G 44901013.80 44901013.91 44901014.02 0.2667 0.0601 *

Saturn 118223-08-29 19:10 G 44901364.19 44901364.30 44901364.42 0.0281 0.0154

Saturn 118223-11-26 08:22 G 44901452.71 44901452.85 44901452.99 0.0281 0.0006

Saturn 118224-02-22 21:05 G 44901541.27 44901541.38 44901541.50 0.0282 0.0163

Jupiter 118225-12-04 21:19 G 44902192.23 44902192.39 44902192.56 0.0492 0.0044

Mars 118227-11-15 15:05 G 44902903.09 44902903.13 44902903.18 0.1641 0.1559

Jupiter 118231-05-15 03:48 G 44904179.62 44904179.66 44904179.71 0.0538 0.0504

Jupiter 118231-08-12 15:48 G 44904269.04 44904269.16 44904269.29 0.0535 0.0224

Moon 118235-09-16 03:48 G 44905764.55 44905764.66 44905764.76 0.2662 0.0919

Earth 118235-09-16 04:03 G 44905764.56 44905764.67 44905764.77 0.2668 0.1035 *

Venus 118235-12-12 03:19 G 44905851.56 44905851.64 44905851.71 0.3717 0.2713

Mars 118237-04-06 17:15 G 44906333.07 44906333.22 44906333.38 0.1636 0.0358

Jupiter 118237-09-22 21:48 G 44906502.24 44906502.41 44906502.57 0.0492 0.0127

Saturn 118237-12-18 03:48 G 44906588.54 44906588.66 44906588.79 0.0278 0.0180

Mars 118238-02-15 15:48 G 44906648.13 44906648.16 44906648.20 0.1897 0.1782

Saturn 118238-03-16 22:46 G 44906677.27 44906677.45 44906677.62 0.0278 0.0008

Moon 118238-03-17 23:43 G 44906678.42 44906678.49 44906678.57 0.2657 0.2251

Earth 118238-03-18 00:41 G 44906678.44 44906678.53 44906678.62 0.2662 0.2030 *

Saturn 118238-06-13 17:29 G 44906766.12 44906766.23 44906766.36 0.0277 0.0193

Venus 118241-06-26 20:36 G 44907875.26 44907875.36 44907875.47 0.3714 0.0879

Jupiter 118243-05-31 17:43 G 44908579.11 44908579.24 44908579.38 0.0536 0.0028

Mars 118246-08-27 19:53 G 44909763.19 44909763.33 44909763.47 0.1631 0.0813

Venus 118247-01-10 13:53 G 44909898.98 44909899.08 44909899.19 0.3710 0.0911

Mars 118247-07-08 23:58 G 44910078.38 44910078.50 44910078.61 0.1904 0.0597

Jupiter 118249-07-11 21:48 G 44910812.27 44910812.41 44910812.54 0.0491 0.0298

Jupiter 118249-10-09 20:36 G 44910902.27 44910902.36 44910902.46 0.0493 0.0406

Moon 118251-03-21 02:07 G 44911429.46 44911429.59 44911429.73 0.2665 0.0771

Earth 118251-03-21 03:34 G 44911429.52 44911429.65 44911429.79 0.2664 0.0905 *

Venus 118252-07-26 06:55 G 44911922.72 44911922.79 44911922.87 0.3706 0.2632

Saturn 118253-01-15 23:00 G 44912096.35 44912096.46 44912096.57 0.0281 0.0178

Saturn 118253-04-14 11:58 G 44912184.86 44912185.00 44912185.15 0.0281 0.0020

Saturn 118253-07-12 00:55 G 44912273.42 44912273.54 44912273.66 0.0282 0.0139

Jupiter 118255-03-19 20:22 G 44912889.22 44912889.35 44912889.48 0.0537 0.0154

Earth 118255-09-11 19:10 G 44913065.24 44913065.30 44913065.36 0.2672 0.2268

Moon 118255-09-11 19:24 G 44913065.25 44913065.31 44913065.37 0.2665 0.2249 *

Mars 118256-11-28 07:24 G 44913508.70 44913508.81 44913508.92 0.1910 0.0645

Venus 118259-08-24 14:07 G 44914507.95 44914508.09 44914508.23 0.3663 0.0377

Uranus 118260-01-10 13:53 G 44914647.05 44914647.08 44914647.12 0.0138 0.0134

Uranus 118260-04-07 17:58 G 44914735.18 44914735.25 44914735.34 0.0138 0.0114

Uranus 118260-07-04 22:03 G 44914823.32 44914823.42 44914823.53 0.0138 0.0093

Uranus 118260-10-01 02:07 G 44914911.47 44914911.59 44914911.72 0.0138 0.0073

Uranus 118260-12-28 06:12 G 44914999.63 44914999.76 44914999.89 0.0138 0.0053

Uranus 118261-03-26 10:17 G 44915087.79 44915087.93 44915088.07 0.0139 0.0033

Jupiter 118261-04-29 21:05 G 44915122.35 44915122.38 44915122.42 0.0490 0.0477

Uranus 118261-06-22 14:07 G 44915175.95 44915176.09 44915176.24 0.0139 0.0014

Jupiter 118261-07-28 19:24 G 44915212.16 44915212.31 44915212.46 0.0493 0.0214

Uranus 118261-09-18 18:12 G 44915264.12 44915264.26 44915264.40 0.0139 0.0006

Uranus 118261-12-15 22:03 G 44915352.28 44915352.42 44915352.56 0.0139 0.0026

Uranus 118262-03-14 01:53 G 44915440.45 44915440.58 44915440.72 0.0139 0.0046

Uranus 118262-06-10 05:58 G 44915528.62 44915528.75 44915528.87 0.0139 0.0065

Uranus 118262-09-06 09:48 G 44915616.80 44915616.91 44915617.02 0.0139 0.0084

Uranus 118262-12-03 13:24 G 44915704.98 44915705.06 44915705.16 0.0139 0.0105

Uranus 118263-03-01 17:29 G 44915793.17 44915793.23 44915793.30 0.0139 0.0123

Venus 118265-03-09 17:15 G 44916532.15 44916532.22 44916532.29 0.3668 0.3171

Mars 118266-04-20 14:51 G 44916939.12 44916939.12 44916939.13 0.1917 0.1912

Jupiter 118267-01-05 23:15 G 44917199.37 44917199.47 44917199.58 0.0538 0.0330

Jupiter 118267-04-05 10:46 G 44917288.86 44917288.95 44917289.05 0.0535 0.0389

Saturn 118267-05-07 05:15 G 44917320.62 44917320.72 44917320.83 0.0278 0.0218

Saturn 118267-08-03 23:58 G 44917409.33 44917409.50 44917409.67 0.0278 0.0035

Saturn 118267-10-31 18:55 G 44917498.15 44917498.29 44917498.43 0.0278 0.0152

Moon 118268-09-13 13:24 G 44917815.95 44917816.06 44917816.18 0.2666 0.0477

Earth 118268-09-13 14:07 G 44917815.98 44917816.09 44917816.21 0.2670 0.0402 *

Jupiter 118273-05-16 19:10 G 44919522.13 44919522.30 44919522.47 0.0492 0.0039

Mars 118276-10-05 17:58 G 44920760.10 44920760.25 44920760.40 0.1636 0.0528

Jupiter 118278-10-25 02:07 G 44921509.55 44921509.59 44921509.63 0.0538 0.0510

Jupiter 118279-01-22 14:07 G 44921598.97 44921599.09 44921599.21 0.0535 0.0219

Moon 118281-09-16 08:22 G 44922566.75 44922566.85 44922566.95 0.2671 0.1280

Earth 118281-09-16 09:05 G 44922566.78 44922566.88 44922566.97 0.2668 0.1421 *

Neptune 118281-12-11 18:55 G 44922653.26 44922653.29 44922653.34 0.0088 0.0085

Neptune 118282-03-09 20:36 G 44922741.30 44922741.36 44922741.43 0.0088 0.0078

Saturn 118282-06-04 23:43 G 44922828.42 44922828.49 44922828.58 0.0281 0.0233

Neptune 118282-06-05 22:17 G 44922829.35 44922829.43 44922829.52 0.0088 0.0071

Saturn 118282-09-01 13:10 G 44922916.91 44922917.05 44922917.18 0.0281 0.0073

Neptune 118282-09-01 23:58 G 44922917.41 44922917.50 44922917.60 0.0088 0.0063

Saturn 118282-11-29 01:53 G 44923005.45 44923005.58 44923005.72 0.0281 0.0086

Neptune 118282-11-29 01:39 G 44923005.46 44923005.57 44923005.68 0.0088 0.0056 *

Neptune 118283-02-25 03:19 G 44923093.52 44923093.64 44923093.76 0.0088 0.0049

Saturn 118283-02-25 14:51 G 44923094.05 44923094.12 44923094.19 0.0282 0.0241

Neptune 118283-05-24 05:00 G 44923181.58 44923181.71 44923181.83 0.0088 0.0043

Neptune 118283-08-20 06:27 G 44923269.64 44923269.77 44923269.90 0.0088 0.0036

Neptune 118283-11-16 08:07 G 44923357.71 44923357.84 44923357.98 0.0088 0.0029

Neptune 118284-02-12 09:34 G 44923445.77 44923445.90 44923446.05 0.0088 0.0022

Moon 118284-03-18 05:43 G 44923480.63 44923480.74 44923480.86 0.2668 0.1601

Earth 118284-03-18 06:41 G 44923480.66 44923480.78 44923480.90 0.2662 0.1452 *

Neptune 118284-05-10 11:15 G 44923533.83 44923533.97 44923534.11 0.0088 0.0015

Neptune 118284-08-06 12:55 G 44923621.90 44923622.04 44923622.18 0.0088 0.0008

Neptune 118284-11-02 14:22 G 44923709.96 44923710.10 44923710.25 0.0088 0.0004

Neptune 118285-01-29 16:03 G 44923798.03 44923798.17 44923798.31 0.0088 0.0006

Jupiter 118285-03-04 19:10 G 44923832.14 44923832.30 44923832.47 0.0492 0.0135

Neptune 118285-04-27 17:43 G 44923886.10 44923886.24 44923886.38 0.0088 0.0013

Neptune 118285-07-24 19:10 G 44923974.16 44923974.30 44923974.44 0.0088 0.0019

Neptune 118285-10-20 20:36 G 44924062.23 44924062.36 44924062.50 0.0088 0.0026

Neptune 118286-01-16 22:03 G 44924150.30 44924150.42 44924150.56 0.0088 0.0033

Mars 118286-02-25 20:36 G 44924190.21 44924190.36 44924190.51 0.1631 0.0632

Neptune 118286-04-14 23:58 G 44924238.37 44924238.50 44924238.62 0.0088 0.0039

Neptune 118286-07-12 01:24 G 44924326.44 44924326.56 44924326.68 0.0088 0.0046

Neptune 118286-10-08 02:36 G 44924414.51 44924414.61 44924414.74 0.0088 0.0054

Neptune 118287-01-04 04:31 G 44924502.59 44924502.69 44924502.79 0.0088 0.0059

Mars 118287-01-06 23:43 G 44924505.38 44924505.49 44924505.60 0.1904 0.0721

Neptune 118287-04-02 05:43 G 44924590.66 44924590.74 44924590.84 0.0088 0.0066

Neptune 118287-06-29 07:10 G 44924678.74 44924678.80 44924678.89 0.0088 0.0073

Neptune 118287-09-25 08:51 G 44924766.82 44924766.87 44924766.94 0.0088 0.0079

Neptune 118287-12-22 10:17 G 44924854.91 44924854.93 44924854.97 0.0088 0.0086

Jupiter 118290-11-10 16:46 G 44925909.07 44925909.20 44925909.34 0.0536 0.0044

Venus 118292-07-18 01:10 G 44926524.46 44926524.55 44926524.64 0.3716 0.2118

Mars 118296-05-29 07:24 G 44927935.70 44927935.81 44927935.93 0.1911 0.0503

Saturn 118296-09-23 04:46 G 44928052.69 44928052.70 44928052.74 0.0278 0.0274

Saturn 118296-12-20 23:29 G 44928141.32 44928141.48 44928141.64 0.0278 0.0092

Jupiter 118296-12-21 19:39 G 44928142.19 44928142.32 44928142.46 0.0491 0.0300

Saturn 118297-03-19 18:27 G 44928230.11 44928230.27 44928230.43 0.0277 0.0094

Earth 118297-03-21 09:48 G 44928231.79 44928231.91 44928232.03 0.2664 0.1497

Moon 118297-03-21 10:46 G 44928231.84 44928231.95 44928232.06 0.2669 0.1686 *

Jupiter 118297-03-21 18:41 G 44928232.18 44928232.28 44928232.37 0.0494 0.0405

Venus 118298-01-31 18:27 G 44928548.17 44928548.27 44928548.38 0.3713 0.0323

Uranus 118300-10-28 17:43 G 44929548.16 44929548.24 44929548.33 0.0140 0.0122

Uranus 118301-01-24 23:58 G 44929636.38 44929636.50 44929636.62 0.0140 0.0098

Uranus 118301-04-23 05:58 G 44929724.61 44929724.75 44929724.90 0.0140 0.0074

Uranus 118301-07-20 12:12 G 44929812.85 44929813.01 44929813.18 0.0140 0.0050

Moon 118301-09-12 23:15 G 44929867.40 44929867.47 44929867.55 0.2673 0.1981

Earth 118301-09-13 00:12 G 44929867.42 44929867.51 44929867.59 0.2672 0.1869 *

Uranus 118301-10-16 18:27 G 44929901.10 44929901.27 44929901.45 0.0140 0.0026

Uranus 118302-01-13 00:55 G 44929989.36 44929989.54 44929989.71 0.0139 0.0002

Uranus 118302-04-11 07:10 G 44930077.63 44930077.80 44930077.97 0.0139 0.0024

Uranus 118302-07-08 13:39 G 44930165.90 44930166.07 44930166.23 0.0139 0.0049

Jupiter 118302-08-30 18:41 G 44930219.15 44930219.28 44930219.41 0.0537 0.0159

Uranus 118302-10-04 19:53 G 44930254.18 44930254.33 44930254.48 0.0139 0.0074

Uranus 118303-01-01 02:22 G 44930342.48 44930342.60 44930342.72 0.0139 0.0098

Uranus 118303-03-30 08:51 G 44930430.79 44930430.87 44930430.95 0.0139 0.0123

Venus 118303-08-18 11:43 G 44930571.89 44930571.99 44930572.09 0.3709 0.1475

Mars 118305-10-20 14:51 G 44931366.08 44931366.12 44931366.17 0.1917 0.1770

Jupiter 118308-10-10 19:53 G 44932452.29 44932452.33 44932452.38 0.0490 0.0468

Jupiter 118309-01-08 18:12 G 44932542.11 44932542.26 44932542.41 0.0493 0.0224

Venus 118309-03-03 04:46 G 44932595.65 44932595.70 44932595.75 0.3705 0.3180

Venus 118310-09-15 11:58 G 44933156.91 44933157.00 44933157.10 0.3660 0.2660

Saturn 118311-10-24 03:19 G 44933560.59 44933560.64 44933560.69 0.0281 0.0259

Saturn 118312-01-20 16:31 G 44933649.06 44933649.19 44933649.32 0.0281 0.0099

Saturn 118312-04-18 05:29 G 44933737.60 44933737.73 44933737.87 0.0282 0.0060

Saturn 118312-07-15 18:27 G 44933826.18 44933826.27 44933826.36 0.0282 0.0216

Jupiter 118314-06-18 20:51 G 44934529.27 44934529.37 44934529.48 0.0538 0.0346

Moon 118314-09-15 19:10 G 44934618.18 44934618.30 44934618.41 0.2677 0.0051

Earth 118314-09-15 19:10 G 44934618.18 44934618.30 44934618.41 0.2670 0.0057 *

Jupiter 118314-09-16 08:36 G 44934618.77 44934618.86 44934618.96 0.0535 0.0374

Pluto 118314-11-06 04:31 G 44934669.64 44934669.69 44934669.79 0.0059 0.0055

Pluto 118315-02-02 06:12 G 44934757.65 44934757.76 44934757.89 0.0059 0.0046

Pluto 118315-05-01 07:53 G 44934845.68 44934845.83 44934845.98 0.0059 0.0038

Pluto 118315-07-28 08:51 G 44934933.71 44934933.87 44934934.06 0.0059 0.0029

Pluto 118315-10-24 10:17 G 44935021.75 44935021.93 44935022.13 0.0059 0.0020

Pluto 118316-01-20 11:43 G 44935109.80 44935109.99 44935110.19 0.0059 0.0012

Venus 118316-03-31 14:36 G 44935180.97 44935181.11 44935181.25 0.3664 0.0713

Mars 118316-04-06 18:27 G 44935187.13 44935187.27 44935187.42 0.1636 0.0704

Pluto 118316-04-17 13:10 G 44935197.86 44935198.05 44935198.25 0.0059 0.0003

Pluto 118316-07-14 14:22 G 44935285.91 44935286.10 44935286.31 0.0059 0.0007

Pluto 118316-10-10 15:34 G 44935373.98 44935374.15 44935374.36 0.0059 0.0016

Pluto 118317-01-06 17:15 G 44935462.04 44935462.22 44935462.41 0.0060 0.0024

Pluto 118317-04-04 18:27 G 44935550.12 44935550.27 44935550.45 0.0060 0.0033

Pluto 118317-07-01 19:53 G 44935638.20 44935638.33 44935638.48 0.0060 0.0042

Pluto 118317-09-27 21:05 G 44935726.30 44935726.38 44935726.50 0.0060 0.0051

Jupiter 118320-10-27 17:00 G 44936852.04 44936852.21 44936852.38 0.0492 0.0034

Mars 118325-08-27 21:05 G 44938617.22 44938617.38 44938617.53 0.1631 0.0464

Jupiter 118326-04-06 23:43 G 44938839.47 44938839.49 44938839.52 0.0539 0.0525

Saturn 118326-05-11 01:39 G 44938873.42 44938873.57 44938873.72 0.0278 0.0124

Jupiter 118326-07-05 11:58 G 44938928.87 44938929.00 44938929.12 0.0536 0.0206

Mars 118326-07-08 23:43 G 44938932.39 44938932.49 44938932.60 0.1903 0.0866

Saturn 118326-08-07 20:22 G 44938962.18 44938962.35 44938962.52 0.0278 0.0061

Saturn 118326-11-04 15:19 G 44939051.07 44939051.14 44939051.22 0.0277 0.0248

Earth 118327-09-18 13:53 G 44939369.00 44939369.08 44939369.17 0.2668 0.1791

Moon 118327-09-18 14:51 G 44939369.04 44939369.12 44939369.19 0.2667 0.1917 *

Earth 118330-03-20 12:41 G 44940282.89 44940283.03 44940283.17 0.2663 0.0880

Moon 118330-03-20 13:53 G 44940282.94 44940283.08 44940283.22 0.2659 0.0665 *

Jupiter 118332-08-15 17:00 G 44941162.05 44941162.21 44941162.37 0.0491 0.0140

Mars 118335-01-17 23:58 G 44942047.47 44942047.50 44942047.52 0.1626 0.1596

Mars 118335-11-29 07:24 G 44942362.70 44942362.81 44942362.93 0.1910 0.0368

Jupiter 118338-04-23 15:05 G 44943238.99 44943239.13 44943239.26 0.0536 0.0036

Saturn 118341-06-08 17:43 G 44944381.12 44944381.24 44944381.36 0.0281 0.0151

Saturn 118341-09-05 06:55 G 44944469.64 44944469.79 44944469.93 0.0281 0.0012

Saturn 118341-12-02 19:39 G 44944558.21 44944558.32 44944558.44 0.0282 0.0165

Moon 118343-03-23 15:34 G 44945034.06 44945034.15 44945034.24 0.2659 0.2032

Earth 118343-03-23 15:48 G 44945034.07 44945034.16 44945034.25 0.2665 0.2099 *

Venus 118343-08-10 05:29 G 44945173.69 44945173.73 44945173.78 0.3719 0.3391

Uranus 118344-01-31 21:34 G 44945348.35 44945348.40 44945348.46 0.0138 0.0126

Uranus 118344-04-29 01:39 G 44945436.49 44945436.57 44945436.67 0.0138 0.0106

Jupiter 118344-06-03 17:15 G 44945472.09 44945472.22 44945472.35 0.0491 0.0309

Uranus 118344-07-26 05:43 G 44945524.63 44945524.74 44945524.86 0.0138 0.0086

Jupiter 118344-09-01 16:03 G 44945562.07 44945562.17 44945562.27 0.0494 0.0394

Uranus 118344-10-22 09:48 G 44945612.79 44945612.91 44945613.04 0.0138 0.0066

Uranus 118345-01-18 13:53 G 44945700.95 44945701.08 44945701.22 0.0138 0.0046

Uranus 118345-04-16 17:58 G 44945789.11 44945789.25 44945789.39 0.0139 0.0026

Mars 118345-04-20 14:51 G 44945793.06 44945793.12 44945793.18 0.1917 0.1638

Uranus 118345-07-13 21:48 G 44945877.27 44945877.41 44945877.56 0.0139 0.0008

Uranus 118345-10-10 01:53 G 44945965.44 44945965.58 44945965.72 0.0139 0.0013

Uranus 118346-01-06 05:43 G 44946053.60 44946053.74 44946053.88 0.0139 0.0033

Uranus 118346-04-04 09:34 G 44946141.77 44946141.90 44946142.04 0.0139 0.0053

Uranus 118346-07-01 13:39 G 44946229.95 44946230.07 44946230.19 0.0139 0.0072

Uranus 118346-09-27 17:15 G 44946318.12 44946318.22 44946318.33 0.0139 0.0092

Uranus 118346-12-24 21:05 G 44946406.31 44946406.38 44946406.47 0.0139 0.0111

Uranus 118347-03-23 00:55 G 44946494.50 44946494.54 44946494.60 0.0139 0.0131

Earth 118347-09-14 05:00 G 44946669.62 44946669.71 44946669.81 0.2671 0.1483

Moon 118347-09-14 05:58 G 44946669.65 44946669.75 44946669.85 0.2674 0.1305 *

Venus 118349-02-22 23:00 G 44947197.37 44947197.46 44947197.56 0.3715 0.1529

Jupiter 118350-02-09 17:43 G 44947549.11 44947549.24 44947549.37 0.0537 0.0146

Venus 118354-09-08 16:31 G 44949221.08 44949221.19 44949221.30 0.3712 0.0294

Saturn 118355-09-28 00:55 G 44949605.42 44949605.54 44949605.67 0.0278 0.0183

Mars 118355-10-06 19:10 G 44949614.16 44949614.30 44949614.43 0.1636 0.0875

Saturn 118355-12-25 19:39 G 44949694.15 44949694.32 44949694.49 0.0278 0.0001

Jupiter 118356-03-22 17:43 G 44949782.20 44949782.24 44949782.29 0.0490 0.0472

Saturn 118356-03-23 14:36 G 44949782.99 44949783.11 44949783.24 0.0277 0.0187

Jupiter 118356-06-20 16:03 G 44949872.02 44949872.17 44949872.32 0.0493 0.0220

Venus 118360-03-24 09:34 G 44951244.81 44951244.90 44951244.99 0.3708 0.2039

Earth 118360-09-16 00:12 G 44951420.39 44951420.51 44951420.62 0.2669 0.0380

Moon 118360-09-16 00:27 G 44951420.40 44951420.52 44951420.63 0.2663 0.0393 *

Jupiter 118361-11-28 19:24 G 44951859.20 44951859.31 44951859.41 0.0537 0.0347

Jupiter 118362-02-26 06:55 G 44951948.70 44951948.79 44951948.89 0.0534 0.0371

Mars 118365-02-25 21:34 G 44953044.24 44953044.40 44953044.56 0.1631 0.0301

Mars 118366-01-06 23:58 G 44953359.40 44953359.50 44953359.60 0.1903 0.1014

Neptune 118366-02-05 16:31 G 44953389.15 44953389.19 44953389.26 0.0089 0.0084

Neptune 118366-05-04 19:39 G 44953477.23 44953477.32 44953477.42 0.0089 0.0075

Neptune 118366-07-31 22:17 G 44953565.33 44953565.43 44953565.56 0.0089 0.0067

Neptune 118366-10-28 01:24 G 44953653.43 44953653.56 44953653.70 0.0089 0.0058

Neptune 118367-01-24 04:03 G 44953741.54 44953741.67 44953741.83 0.0089 0.0050

Neptune 118367-04-22 07:10 G 44953829.65 44953829.80 44953829.96 0.0089 0.0041

Venus 118367-04-22 12:27 G 44953829.89 44953830.02 44953830.14 0.3661 0.1622 *

Neptune 118367-07-19 10:03 G 44953917.76 44953917.92 44953918.09 0.0089 0.0032

Neptune 118367-10-15 13:10 G 44954005.88 44954006.05 44954006.22 0.0089 0.0023

Neptune 118368-01-11 15:48 G 44954093.99 44954094.16 44954094.35 0.0089 0.0015

Jupiter 118368-04-08 15:48 G 44954181.99 44954182.16 44954182.33 0.0492 0.0043

Neptune 118368-04-08 18:55 G 44954182.12 44954182.29 44954182.47 0.0089 0.0006 *

Neptune 118368-07-05 22:03 G 44954270.24 44954270.42 44954270.60 0.0089 0.0003

Neptune 118368-10-02 00:55 G 44954358.36 44954358.54 44954358.72 0.0089 0.0012

Neptune 118368-12-29 03:48 G 44954446.49 44954446.66 44954446.84 0.0089 0.0021

Neptune 118369-03-27 06:41 G 44954534.62 44954534.78 44954534.96 0.0089 0.0030

Neptune 118369-06-23 09:34 G 44954622.75 44954622.90 44954623.08 0.0089 0.0040

Neptune 118369-09-19 12:41 G 44954710.89 44954711.03 44954711.19 0.0089 0.0048

Neptune 118369-12-16 15:34 G 44954799.03 44954799.15 44954799.31 0.0089 0.0058

Neptune 118370-03-14 18:41 G 44954887.18 44954887.28 44954887.42 0.0089 0.0066

Neptune 118370-06-10 21:48 G 44954975.33 44954975.41 44954975.52 0.0089 0.0075

Neptune 118370-09-07 00:55 G 44955063.50 44955063.54 44955063.61 0.0089 0.0084

Saturn 118370-10-26 21:05 G 44955113.27 44955113.38 44955113.49 0.0281 0.0179

Saturn 118371-01-23 10:17 G 44955201.79 44955201.93 44955202.07 0.0282 0.0021

Saturn 118371-04-21 23:15 G 44955290.35 44955290.47 44955290.59 0.0282 0.0138

Venus 118372-11-05 15:19 G 44955854.01 44955854.14 44955854.26 0.3666 0.1825

Moon 118373-09-18 18:12 G 44956171.19 44956171.26 44956171.33 0.2664 0.2070

Earth 118373-09-18 18:55 G 44956171.22 44956171.29 44956171.35 0.2667 0.2173 *

Jupiter 118373-12-15 09:34 G 44956258.78 44956258.90 44956259.03 0.0535 0.0194

Mars 118374-07-19 00:27 G 44956474.45 44956474.52 44956474.59 0.1626 0.1431

Mars 118375-05-30 07:24 G 44956789.70 44956789.81 44956789.93 0.1910 0.0233

Moon 118376-03-20 17:29 G 44957085.08 44957085.23 44957085.37 0.2661 0.0431

Earth 118376-03-20 18:41 G 44957085.14 44957085.28 44957085.43 0.2663 0.0296 *

Jupiter 118380-01-26 14:51 G 44958491.96 44958492.12 44958492.28 0.0491 0.0145

Uranus 118384-08-21 19:24 G 44960161.29 44960161.31 44960161.35 0.0140 0.0137

Mars 118384-10-19 15:05 G 44960220.05 44960220.13 44960220.20 0.1917 0.1484

Uranus 118384-11-18 01:39 G 44960249.48 44960249.57 44960249.67 0.0140 0.0113

Saturn 118385-02-14 03:19 G 44960337.53 44960337.64 44960337.75 0.0278 0.0212

Uranus 118385-02-14 07:53 G 44960337.70 44960337.83 44960337.96 0.0140 0.0089 *

Uranus 118385-05-13 13:53 G 44960425.93 44960426.08 44960426.24 0.0140 0.0065

Saturn 118385-05-13 22:03 G 44960426.25 44960426.42 44960426.59 0.0278 0.0029

Uranus 118385-08-09 20:07 G 44960514.18 44960514.34 44960514.51 0.0140 0.0041

Saturn 118385-08-10 16:46 G 44960515.06 44960515.20 44960515.34 0.0278 0.0158

Jupiter 118385-10-03 12:41 G 44960568.89 44960569.03 44960569.17 0.0537 0.0020

Uranus 118385-11-06 02:22 G 44960602.43 44960602.60 44960602.78 0.0140 0.0017

Uranus 118386-02-02 08:36 G 44960690.69 44960690.86 44960691.04 0.0139 0.0009

Uranus 118386-05-01 15:05 G 44960778.96 44960779.13 44960779.30 0.0139 0.0033

Uranus 118386-07-28 21:19 G 44960867.23 44960867.39 44960867.55 0.0139 0.0058

Uranus 118386-10-25 03:48 G 44960955.52 44960955.66 44960955.80 0.0139 0.0082

Uranus 118387-01-21 10:03 G 44961043.82 44961043.92 44961044.04 0.0139 0.0108

Uranus 118387-04-19 16:46 G 44961132.15 44961132.20 44961132.25 0.0139 0.0132

Moon 118389-03-23 21:19 G 44961836.36 44961836.39 44961836.43 0.2672 0.2584

Jupiter 118391-11-14 15:05 G 44962802.00 44962802.13 44962802.25 0.0491 0.0314

Jupiter 118392-02-12 13:39 G 44962891.97 44962892.07 44962892.17 0.0493 0.0387

Moon 118393-09-14 09:34 G 44963471.79 44963471.90 44963472.00 0.2667 0.1133

Earth 118393-09-14 10:03 G 44963471.82 44963471.92 44963472.03 0.2671 0.1086 *

Mars 118395-04-06 19:39 G 44964041.20 44964041.32 44964041.45 0.1637 0.1053

Jupiter 118397-07-22 15:48 G 44964879.03 44964879.16 44964879.29 0.0537 0.0155

Saturn 118400-03-14 22:17 G 44965845.35 44965845.43 44965845.51 0.0281 0.0231

Venus 118400-03-16 03:34 G 44965846.58 44965846.65 44965846.72 0.3718 0.2777

Saturn 118400-06-11 11:29 G 44965933.84 44965933.98 44965934.12 0.0281 0.0071

Saturn 118400-09-08 00:27 G 44966022.39 44966022.52 44966022.65 0.0281 0.0087

Saturn 118400-12-05 13:10 G 44966110.99 44966111.05 44966111.12 0.0282 0.0243

Jupiter 118403-09-02 15:19 G 44967112.11 44967112.14 44967112.17 0.0490 0.0481

Jupiter 118403-12-01 13:24 G 44967201.90 44967202.06 44967202.21 0.0493 0.0209

Mars 118404-08-26 22:17 G 44967471.27 44967471.43 44967471.59 0.1631 0.0126

Mars 118405-07-07 23:43 G 44967786.40 44967786.49 44967786.59 0.1903 0.1133

Venus 118405-09-29 21:05 G 44967870.27 44967870.38 44967870.49 0.3714 0.0928

Moon 118406-09-17 04:31 G 44968222.58 44968222.69 44968222.80 0.2672 0.0600

Earth 118406-09-17 05:00 G 44968222.60 44968222.71 44968222.82 0.2669 0.0761 *

Earth 118409-03-18 22:03 G 44969136.39 44969136.42 44969136.45 0.2661 0.2583

Jupiter 118409-05-10 18:12 G 44969189.16 44969189.26 44969189.37 0.0538 0.0337

Jupiter 118409-08-08 05:58 G 44969278.66 44969278.75 44969278.84 0.0535 0.0382

Venus 118411-04-15 14:22 G 44969894.00 44969894.10 44969894.21 0.3711 0.0866

Pluto 118411-10-16 19:53 G 44970078.27 44970078.33 44970078.41 0.0085 0.0072

Pluto 118412-01-12 21:19 G 44970166.29 44970166.39 44970166.49 0.0085 0.0054

Pluto 118412-04-09 22:31 G 44970254.32 44970254.44 44970254.56 0.0085 0.0037

Pluto 118412-07-06 23:43 G 44970342.36 44970342.49 44970342.62 0.0085 0.0020

Pluto 118412-10-03 00:55 G 44970430.41 44970430.54 44970430.68 0.0085 0.0003

Pluto 118412-12-30 02:07 G 44970518.47 44970518.59 44970518.72 0.0085 0.0015

Pluto 118413-03-28 03:19 G 44970606.52 44970606.64 44970606.77 0.0085 0.0032

Pluto 118413-06-24 04:31 G 44970694.59 44970694.69 44970694.80 0.0084 0.0049

Pluto 118413-09-20 05:43 G 44970782.67 44970782.74 44970782.82 0.0084 0.0066

Pluto 118413-12-17 06:41 G 44970870.78 44970870.78 44970870.81 0.0084 0.0083

Mars 118414-01-17 00:55 G 44970901.44 44970901.54 44970901.64 0.1626 0.1271

Saturn 118414-07-04 02:22 G 44971069.58 44971069.60 44971069.64 0.0278 0.0272

Saturn 118414-09-30 21:05 G 44971158.22 44971158.38 44971158.54 0.0278 0.0090

Mars 118414-11-28 07:39 G 44971216.70 44971216.82 44971216.94 0.1910 0.0072

Saturn 118414-12-28 15:48 G 44971247.00 44971247.16 44971247.32 0.0277 0.0096

Jupiter 118415-09-19 13:39 G 44971511.90 44971512.07 44971512.24 0.0492 0.0039

Venus 118416-10-29 07:24 G 44971917.74 44971917.81 44971917.89 0.3707 0.2594

Earth 118419-09-19 23:43 G 44972973.46 44972973.49 44972973.52 0.2667 0.2545

Moon 118419-09-20 00:12 G 44972973.50 44972973.51 44972973.52 0.2673 0.2660 *

Jupiter 118421-05-27 08:07 G 44973588.71 44973588.84 44973588.96 0.0535 0.0192

Earth 118422-03-22 00:55 G 44973887.39 44973887.54 44973887.68 0.2663 0.0308

Moon 118422-03-22 01:53 G 44973887.44 44973887.58 44973887.72 0.2668 0.0574 *

Venus 118423-11-27 12:41 G 44974502.90 44974503.03 44974503.17 0.3662 0.0586

Mars 118424-04-19 15:05 G 44974647.05 44974647.13 44974647.21 0.1916 0.1343

Earth 118426-09-12 20:07 G 44975523.31 44975523.34 44975523.37 0.2673 0.2564

Jupiter 118427-07-08 13:24 G 44975821.90 44975822.06 44975822.23 0.0492 0.0136

Uranus 118428-02-21 05:15 G 44976049.65 44976049.72 44976049.79 0.0138 0.0119

Uranus 118428-05-19 09:19 G 44976137.79 44976137.89 44976137.99 0.0138 0.0099

Uranus 118428-08-15 13:24 G 44976225.95 44976226.06 44976226.18 0.0138 0.0079

Uranus 118428-11-11 17:29 G 44976314.10 44976314.23 44976314.36 0.0138 0.0059

Uranus 118429-02-07 21:34 G 44976402.26 44976402.40 44976402.54 0.0138 0.0039

Uranus 118429-05-07 01:24 G 44976490.42 44976490.56 44976490.71 0.0138 0.0020

Venus 118429-06-12 15:48 G 44976527.08 44976527.16 44976527.24 0.3667 0.2935

Saturn 118429-08-02 01:10 G 44976577.50 44976577.55 44976577.60 0.0281 0.0263

Uranus 118429-08-03 05:29 G 44976578.59 44976578.73 44976578.87 0.0139 0.0001

Saturn 118429-10-29 14:22 G 44976665.97 44976666.10 44976666.24 0.0281 0.0103

Uranus 118429-10-30 09:19 G 44976666.75 44976666.89 44976667.04 0.0139 0.0020

Saturn 118430-01-26 03:34 G 44976754.51 44976754.65 44976754.79 0.0282 0.0056

Uranus 118430-01-26 13:24 G 44976754.92 44976755.06 44976755.19 0.0139 0.0040

Uranus 118430-04-24 17:15 G 44976843.09 44976843.22 44976843.35 0.0139 0.0059

Saturn 118430-04-24 16:17 G 44976843.10 44976843.18 44976843.28 0.0282 0.0213 *

Uranus 118430-07-21 21:05 G 44976931.27 44976931.38 44976931.50 0.0139 0.0079

Uranus 118430-10-18 00:55 G 44977019.45 44977019.54 44977019.64 0.0139 0.0098

Uranus 118431-01-14 04:46 G 44977107.63 44977107.70 44977107.78 0.0139 0.0117

Uranus 118431-04-12 08:22 G 44977195.84 44977195.85 44977195.89 0.0139 0.0137

Jupiter 118433-03-15 10:31 G 44977898.81 44977898.94 44977899.08 0.0536 0.0021

Mars 118434-10-05 20:22 G 44978468.24 44978468.35 44978468.46 0.1637 0.1226

Jupiter 118439-04-26 12:41 G 44980131.91 44980132.03 44980132.16 0.0491 0.0319

Jupiter 118439-07-25 11:29 G 44980221.87 44980221.98 44980222.09 0.0493 0.0382

Earth 118439-09-15 15:05 G 44980274.02 44980274.13 44980274.25 0.2671 0.0695

Moon 118439-09-15 15:19 G 44980274.03 44980274.14 44980274.25 0.2677 0.0608 *

Saturn 118444-02-17 23:29 G 44981890.33 44981890.48 44981890.64 0.0278 0.0118

Mars 118444-02-25 22:46 G 44981898.29 44981898.45 44981898.61 0.1631 0.0048

Saturn 118444-05-16 18:12 G 44981979.10 44981979.26 44981979.43 0.0278 0.0067

Saturn 118444-08-13 13:10 G 44982067.99 44982068.05 44982068.12 0.0277 0.0254

Jupiter 118445-01-01 13:24 G 44982208.93 44982209.06 44982209.19 0.0537 0.0169

Mars 118445-01-05 23:58 G 44982213.41 44982213.50 44982213.58 0.1903 0.1284

Neptune 118446-09-08 17:43 G 44982824.20 44982824.24 44982824.29 0.0088 0.0083

Neptune 118446-12-05 19:10 G 44982912.25 44982912.30 44982912.39 0.0088 0.0077

Neptune 118447-03-03 20:51 G 44983000.30 44983000.37 44983000.48 0.0088 0.0070

Neptune 118447-05-30 22:31 G 44983088.36 44983088.44 44983088.56 0.0088 0.0063

Neptune 118447-08-27 00:12 G 44983176.41 44983176.51 44983176.64 0.0088 0.0056

Neptune 118447-11-23 01:53 G 44983264.47 44983264.58 44983264.71 0.0088 0.0049

Neptune 118448-02-19 03:34 G 44983352.53 44983352.65 44983352.79 0.0088 0.0041

Neptune 118448-05-17 05:15 G 44983440.60 44983440.72 44983440.86 0.0088 0.0034

Neptune 118448-08-13 06:55 G 44983528.66 44983528.79 44983528.93 0.0088 0.0027

Neptune 118448-11-09 08:36 G 44983616.72 44983616.86 44983617.00 0.0088 0.0020

Neptune 118449-02-05 10:17 G 44983704.79 44983704.93 44983705.07 0.0088 0.0013

Neptune 118449-05-04 11:43 G 44983792.85 44983792.99 44983793.14 0.0088 0.0007

Neptune 118449-07-31 13:24 G 44983880.92 44983881.06 44983881.20 0.0088 0.0001

Neptune 118449-10-27 15:05 G 44983968.99 44983969.13 44983969.27 0.0088 0.0007

Neptune 118450-01-23 16:31 G 44984057.05 44984057.19 44984057.33 0.0088 0.0014

Neptune 118450-04-21 17:58 G 44984145.12 44984145.25 44984145.40 0.0088 0.0021

Neptune 118450-07-18 19:39 G 44984233.19 44984233.32 44984233.46 0.0088 0.0028

Neptune 118450-10-14 21:19 G 44984321.26 44984321.39 44984321.52 0.0088 0.0034

Neptune 118451-01-10 22:46 G 44984409.33 44984409.45 44984409.58 0.0088 0.0041

Jupiter 118451-02-12 13:10 G 44984442.03 44984442.05 44984442.08 0.0490 0.0484

Neptune 118451-04-09 00:12 G 44984497.40 44984497.51 44984497.64 0.0088 0.0048

Jupiter 118451-05-13 11:15 G 44984531.81 44984531.97 44984532.12 0.0492 0.0204

Neptune 118451-07-06 01:53 G 44984585.47 44984585.58 44984585.69 0.0088 0.0054

Neptune 118451-10-02 03:19 G 44984673.55 44984673.64 44984673.75 0.0088 0.0061

Neptune 118451-12-29 04:46 G 44984761.62 44984761.70 44984761.80 0.0088 0.0068

Neptune 118452-03-26 06:27 G 44984849.70 44984849.77 44984849.85 0.0088 0.0074

Neptune 118452-06-22 07:39 G 44984937.78 44984937.82 44984937.89 0.0088 0.0081

Earth 118452-09-17 10:03 G 44985024.82 44985024.92 44985025.02 0.2669 0.1140

Moon 118452-09-17 11:00 G 44985024.85 44985024.96 44985025.06 0.2668 0.1213 *

Neptune 118452-09-18 09:19 G 44985025.89 44985025.89 44985025.91 0.0088 0.0088

Mars 118453-07-18 01:39 G 44985328.45 44985328.57 44985328.68 0.1626 0.1097

Mars 118454-05-29 07:39 G 44985643.70 44985643.82 44985643.93 0.1909 0.0079

Earth 118455-03-20 04:03 G 44985938.58 44985938.67 44985938.77 0.2661 0.2010

Moon 118455-03-20 05:15 G 44985938.62 44985938.72 44985938.82 0.2657 0.1927 *

Jupiter 118456-10-20 16:17 G 44986519.08 44986519.18 44986519.29 0.0538 0.0345

Venus 118456-10-21 01:39 G 44986519.48 44986519.57 44986519.65 0.3717 0.2176

Jupiter 118457-01-18 04:03 G 44986608.58 44986608.67 44986608.77 0.0535 0.0376

Saturn 118459-03-18 15:48 G 44987398.04 44987398.16 44987398.28 0.0281 0.0152

Saturn 118459-06-15 05:00 G 44987486.57 44987486.71 44987486.85 0.0281 0.0007

Saturn 118459-09-11 17:58 G 44987575.13 44987575.25 44987575.36 0.0281 0.0164

Venus 118462-05-06 18:55 G 44988543.19 44988543.29 44988543.40 0.3714 0.0368

Jupiter 118463-03-01 11:00 G 44988841.79 44988841.96 44988842.13 0.0492 0.0029

Mars 118463-10-19 15:05 G 44989074.04 44989074.13 44989074.22 0.1916 0.1205

Venus 118467-11-20 12:12 G 44990566.91 44990567.01 44990567.11 0.3710 0.1437

Moon 118468-03-22 06:27 G 44990689.63 44990689.77 44990689.90 0.2658 0.0895

Earth 118468-03-22 06:55 G 44990689.65 44990689.79 44990689.93 0.2664 0.0897 *

Jupiter 118468-08-08 18:55 G 44990829.27 44990829.29 44990829.31 0.0538 0.0529

Uranus 118468-09-11 02:51 G 44990862.57 44990862.62 44990862.69 0.0140 0.0130

Jupiter 118468-11-06 07:10 G 44990918.67 44990918.80 44990918.92 0.0536 0.0203

Uranus 118468-12-08 09:05 G 44990950.78 44990950.88 44990951.00 0.0140 0.0106

Uranus 118469-03-06 15:19 G 44991039.00 44991039.14 44991039.28 0.0140 0.0082

Uranus 118469-06-02 21:19 G 44991127.24 44991127.39 44991127.56 0.0140 0.0058

Uranus 118469-08-30 03:34 G 44991215.49 44991215.65 44991215.83 0.0140 0.0034

Uranus 118469-11-26 10:03 G 44991303.74 44991303.92 44991304.09 0.0140 0.0009

Uranus 118470-02-22 16:17 G 44991392.01 44991392.18 44991392.35 0.0140 0.0016

Uranus 118470-05-21 22:31 G 44991480.28 44991480.44 44991480.61 0.0139 0.0041

Uranus 118470-08-18 04:46 G 44991568.55 44991568.70 44991568.86 0.0139 0.0066

Uranus 118470-11-14 11:15 G 44991656.84 44991656.97 44991657.11 0.0139 0.0090

Uranus 118471-02-10 17:43 G 44991745.15 44991745.24 44991745.34 0.0139 0.0115

Earth 118472-09-13 01:10 G 44992325.48 44992325.55 44992325.61 0.2672 0.2166

Moon 118472-09-13 01:53 G 44992325.51 44992325.58 44992325.65 0.2675 0.2102 *

Venus 118473-06-05 05:15 G 44992590.67 44992590.72 44992590.78 0.3706 0.3142

Saturn 118473-07-06 22:17 G 44992622.31 44992622.43 44992622.56 0.0278 0.0182

Saturn 118473-10-03 17:00 G 44992711.04 44992711.21 44992711.38 0.0278 0.0002

Saturn 118473-12-31 11:43 G 44992799.87 44992799.99 44992800.12 0.0277 0.0189

Mars 118474-04-05 20:51 G 44992895.29 44992895.37 44992895.45 0.1637 0.1398

Jupiter 118474-12-18 11:29 G 44993151.82 44993151.98 44993152.14 0.0492 0.0139

Venus 118474-12-18 10:46 G 44993151.86 44993151.95 44993152.03 0.3659 0.2851 *

Venus 118480-07-03 13:10 G 44995175.92 44995176.05 44995176.19 0.3663 0.0512

Jupiter 118480-08-25 09:19 G 44995228.75 44995228.89 44995229.02 0.0536 0.0020

Mars 118483-08-26 23:15 G 44996325.31 44996325.47 44996325.63 0.1632 0.0210

Mars 118484-07-06 23:58 G 44996640.42 44996640.50 44996640.58 0.1902 0.1425

Moon 118485-09-15 20:22 G 44997076.23 44997076.35 44997076.47 0.2664 0.0192

Earth 118485-09-15 20:07 G 44997076.23 44997076.34 44997076.46 0.2671 0.0301 *

Jupiter 118486-10-06 11:29 G 44997461.85 44997461.98 44997462.11 0.0491 0.0309

Jupiter 118487-01-04 10:03 G 44997551.83 44997551.92 44997552.03 0.0493 0.0393

Saturn 118488-08-04 18:12 G 44998130.16 44998130.26 44998130.37 0.0281 0.0189

Saturn 118488-11-01 07:39 G 44998218.68 44998218.82 44998218.96 0.0282 0.0030

Saturn 118489-01-28 20:36 G 44998307.23 44998307.36 44998307.48 0.0282 0.0129

Jupiter 118492-06-13 11:29 G 44999538.86 44999538.98 44999539.11 0.0537 0.0175

Mars 118493-01-16 02:07 G 44999755.46 44999755.59 44999755.72 0.1627 0.0926

Mars 118493-11-27 07:39 G 45000070.70 45000070.82 45000070.94 0.1909 0.0200

Jupiter 118498-07-25 11:15 G 45001771.95 45001771.97 45001771.98 0.0490 0.0486

Moon 118498-09-18 14:22 G 45001827.00 45001827.10 45001827.20 0.2667 0.1333

Earth 118498-09-18 15:05 G 45001827.03 45001827.13 45001827.22 0.2669 0.1524 *

Jupiter 118498-10-23 09:05 G 45001861.72 45001861.88 45001862.03 0.0492 0.0201

Moon 118501-03-21 08:51 G 45002740.76 45002740.87 45002740.98 0.2662 0.1728

Earth 118501-03-21 10:03 G 45002740.80 45002740.92 45002741.04 0.2662 0.1437 *

Saturn 118502-11-25 00:55 G 45003354.43 45003354.54 45003354.65 0.0278 0.0208

Saturn 118503-02-21 19:24 G 45003443.15 45003443.31 45003443.48 0.0278 0.0027

Mars 118503-04-20 15:05 G 45003501.04 45003501.13 45003501.23 0.1916 0.1059

Saturn 118503-05-21 14:22 G 45003531.96 45003532.10 45003532.24 0.0278 0.0160

Jupiter 118504-04-02 14:07 G 45003848.99 45003849.09 45003849.19 0.0538 0.0358

Jupiter 118504-07-01 01:53 G 45003938.49 45003938.58 45003938.68 0.0535 0.0365

Venus 118507-11-13 05:58 G 45005168.71 45005168.75 45005168.79 0.3720 0.3446

Jupiter 118510-08-12 09:05 G 45006171.71 45006171.88 45006172.05 0.0492 0.0028

Uranus 118511-12-16 08:36 G 45006662.83 45006662.86 45006662.91 0.0138 0.0133

Uranus 118512-03-13 12:55 G 45006750.96 45006751.04 45006751.13 0.0138 0.0112

Uranus 118512-06-09 17:00 G 45006839.11 45006839.21 45006839.32 0.0138 0.0092

Uranus 118512-09-05 21:05 G 45006927.26 45006927.38 45006927.51 0.0138 0.0072

Uranus 118512-12-03 01:10 G 45007015.42 45007015.55 45007015.69 0.0138 0.0052

Uranus 118513-03-01 05:15 G 45007103.58 45007103.72 45007103.86 0.0138 0.0032

Uranus 118513-05-28 09:19 G 45007191.74 45007191.89 45007192.03 0.0138 0.0012

Venus 118513-05-28 23:29 G 45007192.38 45007192.48 45007192.58 0.3716 0.1581

Uranus 118513-08-24 13:10 G 45007279.91 45007280.05 45007280.20 0.0138 0.0008

Mars 118513-10-05 21:34 G 45007322.36 45007322.40 45007322.44 0.1637 0.1577

Uranus 118513-11-20 17:15 G 45007368.08 45007368.22 45007368.36 0.0139 0.0027

Uranus 118514-02-16 21:05 G 45007456.25 45007456.38 45007456.52 0.0139 0.0047

Moon 118514-03-24 12:41 G 45007491.91 45007492.03 45007492.14 0.2671 0.1539

Earth 118514-03-24 12:55 G 45007491.92 45007492.04 45007492.16 0.2664 0.1492 *

Uranus 118514-05-16 00:55 G 45007544.42 45007544.54 45007544.67 0.0139 0.0067

Uranus 118514-08-12 05:00 G 45007632.60 45007632.71 45007632.82 0.0139 0.0086

Uranus 118514-11-08 08:36 G 45007720.78 45007720.86 45007720.96 0.0139 0.0106

Uranus 118515-02-04 12:27 G 45007808.97 45007809.02 45007809.09 0.0139 0.0125

Jupiter 118516-01-20 17:00 G 45008159.20 45008159.21 45008159.22 0.0539 0.0537

Jupiter 118516-04-19 05:15 G 45008248.59 45008248.72 45008248.85 0.0536 0.0197

Saturn 118517-12-23 19:53 G 45008862.25 45008862.33 45008862.40 0.0280 0.0237

Saturn 118518-03-22 09:05 G 45008950.74 45008950.88 45008951.02 0.0281 0.0077

Saturn 118518-06-18 22:03 G 45009039.29 45009039.42 45009039.56 0.0281 0.0081

Moon 118518-09-15 05:29 G 45009127.65 45009127.73 45009127.81 0.2668 0.1939

Earth 118518-09-15 06:12 G 45009127.67 45009127.76 45009127.84 0.2672 0.1770 *

Saturn 118518-09-15 10:46 G 45009127.89 45009127.95 45009128.03 0.0281 0.0237

Venus 118518-12-12 17:00 G 45009216.10 45009216.21 45009216.32 0.3712 0.0247

Jupiter 118522-05-31 09:05 G 45010481.72 45010481.88 45010482.04 0.0491 0.0146

Mars 118523-02-25 23:58 G 45010752.34 45010752.50 45010752.66 0.1632 0.0395

Mars 118524-01-06 23:58 G 45011067.43 45011067.50 45011067.56 0.1902 0.1557

Venus 118524-06-27 10:03 G 45011239.83 45011239.92 45011240.01 0.3709 0.1985

Jupiter 118528-02-06 08:07 G 45012558.71 45012558.84 45012558.98 0.0536 0.0026

Venus 118530-01-11 03:05 G 45013263.63 45013263.63 45013263.64 0.3705 0.3687

Neptune 118530-11-03 14:22 G 45013560.05 45013560.10 45013560.19 0.0089 0.0082

Neptune 118531-01-30 17:29 G 45013648.14 45013648.23 45013648.33 0.0089 0.0073

Neptune 118531-04-28 20:07 G 45013736.24 45013736.34 45013736.47 0.0089 0.0065

Neptune 118531-07-25 23:15 G 45013824.34 45013824.47 45013824.61 0.0089 0.0056

Venus 118531-07-26 11:00 G 45013824.84 45013824.96 45013825.08 0.3660 0.1830

Moon 118531-09-18 00:41 G 45013878.41 45013878.53 45013878.64 0.2675 0.0083

Earth 118531-09-18 01:10 G 45013878.44 45013878.55 45013878.67 0.2670 0.0093 *

Neptune 118531-10-22 01:53 G 45013912.45 45013912.58 45013912.74 0.0089 0.0048

Neptune 118532-01-18 04:46 G 45014000.56 45014000.70 45014000.87 0.0089 0.0040

Saturn 118532-04-12 23:15 G 45014086.46 45014086.47 45014086.49 0.0278 0.0276

Neptune 118532-04-15 07:53 G 45014088.67 45014088.83 45014089.00 0.0089 0.0030

Saturn 118532-07-10 17:43 G 45014175.09 45014175.24 45014175.40 0.0278 0.0095

Neptune 118532-07-12 11:00 G 45014176.78 45014176.96 45014177.13 0.0089 0.0022

Mars 118532-07-18 02:36 G 45014182.47 45014182.61 45014182.75 0.1627 0.0768

Saturn 118532-10-07 12:41 G 45014263.86 45014264.03 45014264.19 0.0278 0.0091

Neptune 118532-10-08 13:39 G 45014264.90 45014265.07 45014265.25 0.0089 0.0013

Neptune 118533-01-04 16:46 G 45014353.02 45014353.20 45014353.38 0.0089 0.0004

Neptune 118533-04-02 19:39 G 45014441.15 45014441.32 45014441.50 0.0089 0.0005

Mars 118533-05-29 07:39 G 45014497.71 45014497.82 45014497.94 0.1909 0.0348

Neptune 118533-06-29 22:31 G 45014529.27 45014529.44 45014529.62 0.0089 0.0014

Neptune 118533-09-26 01:24 G 45014617.40 45014617.56 45014617.74 0.0089 0.0023

Neptune 118533-12-23 04:31 G 45014705.53 45014705.69 45014705.86 0.0089 0.0032

Jupiter 118534-03-19 09:34 G 45014791.77 45014791.90 45014792.03 0.0491 0.0311

Neptune 118534-03-21 07:24 G 45014793.66 45014793.81 45014793.98 0.0089 0.0041

Jupiter 118534-06-17 08:07 G 45014881.74 45014881.84 45014881.94 0.0493 0.0391

Neptune 118534-06-17 10:17 G 45014881.80 45014881.93 45014882.10 0.0089 0.0050 *

Neptune 118534-09-13 13:24 G 45014969.94 45014970.06 45014970.21 0.0089 0.0059

Neptune 118534-12-10 16:17 G 45015058.09 45015058.18 45015058.32 0.0089 0.0069

Neptune 118535-03-08 19:24 G 45015146.24 45015146.31 45015146.42 0.0089 0.0077

Neptune 118535-06-04 22:31 G 45015234.41 45015234.44 45015234.50 0.0089 0.0086

Venus 118537-02-08 13:39 G 45015848.95 45015849.07 45015849.20 0.3664 0.1576

Jupiter 118539-11-25 10:17 G 45016868.80 45016868.93 45016869.06 0.0537 0.0169

Mars 118542-10-19 15:19 G 45017928.03 45017928.14 45017928.24 0.1916 0.0917

Earth 118544-09-19 19:53 G 45018629.25 45018629.33 45018629.41 0.2668 0.1906

Moon 118544-09-19 20:22 G 45018629.27 45018629.35 45018629.43 0.2674 0.1917 *

Jupiter 118546-01-05 10:03 G 45019101.88 45019101.92 45019101.95 0.0490 0.0477

Jupiter 118546-04-05 07:53 G 45019191.68 45019191.83 45019191.98 0.0493 0.0213

Earth 118547-03-22 16:03 G 45019543.04 45019543.17 45019543.31 0.2662 0.0860

Moon 118547-03-22 17:15 G 45019543.09 45019543.22 45019543.36 0.2666 0.0754 *

Saturn 118547-05-12 21:48 G 45019594.40 45019594.41 45019594.43 0.0281 0.0279

Saturn 118547-08-09 11:15 G 45019682.84 45019682.97 45019683.10 0.0281 0.0118

Saturn 118547-11-06 00:27 G 45019771.38 45019771.52 45019771.66 0.0282 0.0041

Saturn 118548-02-02 13:10 G 45019859.96 45019860.05 45019860.16 0.0282 0.0198

Jupiter 118551-09-13 12:41 G 45021178.92 45021179.03 45021179.13 0.0538 0.0358

Jupiter 118551-12-12 00:27 G 45021268.42 45021268.52 45021268.62 0.0535 0.0364

Uranus 118552-10-02 11:00 G 45021563.88 45021563.96 45021564.04 0.0140 0.0121

Uranus 118552-12-29 16:46 G 45021652.09 45021652.20 45021652.33 0.0140 0.0098

Uranus 118553-03-27 23:00 G 45021740.32 45021740.46 45021740.61 0.0140 0.0074

Uranus 118553-06-24 05:15 G 45021828.56 45021828.72 45021828.89 0.0140 0.0049

Uranus 118553-09-20 11:29 G 45021916.81 45021916.98 45021917.15 0.0140 0.0025

Uranus 118553-12-17 17:43 G 45022005.07 45022005.24 45022005.42 0.0140 0.0003

Uranus 118554-03-15 23:58 G 45022093.33 45022093.50 45022093.68 0.0140 0.0025

Uranus 118554-06-12 06:12 G 45022181.61 45022181.76 45022181.93 0.0139 0.0050

Uranus 118554-09-08 12:41 G 45022269.89 45022270.03 45022270.18 0.0139 0.0074

Uranus 118554-12-05 18:55 G 45022358.18 45022358.29 45022358.43 0.0139 0.0100

Uranus 118555-03-04 01:24 G 45022446.50 45022446.56 45022446.65 0.0139 0.0125

Jupiter 118558-01-22 07:10 G 45023501.63 45023501.80 45023501.97 0.0492 0.0026

Earth 118560-03-24 18:55 G 45024294.20 45024294.29 45024294.38 0.2664 0.2080

Moon 118560-03-24 19:53 G 45024294.25 45024294.33 45024294.40 0.2659 0.2285 *

Pluto 118561-06-23 14:22 G 45024750.10 45024750.10 45024750.12 0.0059 0.0059

Pluto 118561-09-19 15:34 G 45024838.06 45024838.15 45024838.26 0.0059 0.0050

Saturn 118561-11-27 20:07 G 45024907.19 45024907.34 45024907.49 0.0278 0.0123

Pluto 118561-12-16 16:46 G 45024926.08 45024926.20 45024926.36 0.0059 0.0042

Saturn 118562-02-24 14:51 G 45024995.95 45024996.12 45024996.29 0.0278 0.0061

Pluto 118562-03-14 18:12 G 45025014.11 45025014.26 45025014.44 0.0059 0.0033

Saturn 118562-05-24 09:48 G 45025084.84 45025084.91 45025084.99 0.0278 0.0248

Pluto 118562-06-10 19:53 G 45025102.15 45025102.33 45025102.51 0.0059 0.0024

Mars 118562-08-27 00:27 G 45025179.37 45025179.52 45025179.68 0.1632 0.0565

Pluto 118562-09-06 21:19 G 45025190.20 45025190.39 45025190.58 0.0059 0.0016

Pluto 118562-12-03 22:31 G 45025278.25 45025278.44 45025278.64 0.0059 0.0007

Pluto 118563-03-01 23:58 G 45025366.31 45025366.50 45025366.70 0.0059 0.0002

Pluto 118563-05-29 01:24 G 45025454.37 45025454.56 45025454.76 0.0059 0.0011

Mars 118563-07-07 23:58 G 45025494.45 45025494.50 45025494.55 0.1902 0.1699

Pluto 118563-08-25 02:36 G 45025542.43 45025542.61 45025542.81 0.0059 0.0020

Jupiter 118563-09-30 03:19 G 45025578.51 45025578.64 45025578.76 0.0536 0.0188

Pluto 118563-11-21 03:48 G 45025630.50 45025630.66 45025630.85 0.0059 0.0029

Pluto 118564-02-17 05:00 G 45025718.58 45025718.71 45025718.89 0.0060 0.0038

Pluto 118564-05-15 06:27 G 45025806.67 45025806.77 45025806.92 0.0060 0.0047

Venus 118564-06-19 04:03 G 45025841.60 45025841.67 45025841.73 0.3719 0.2851

Pluto 118564-08-11 08:22 G 45025894.78 45025894.85 45025894.92 0.0060 0.0055

Earth 118564-09-15 11:15 G 45025929.87 45025929.97 45025930.07 0.2672 0.1375

Moon 118564-09-15 11:29 G 45025929.88 45025929.98 45025930.08 0.2678 0.1373 *

Jupiter 118569-11-10 07:10 G 45027811.64 45027811.80 45027811.97 0.0491 0.0146

Venus 118570-01-02 21:34 G 45027865.29 45027865.40 45027865.50 0.3715 0.0988

Mars 118572-01-17 03:19 G 45028609.49 45028609.64 45028609.79 0.1627 0.0591

Mars 118572-11-27 07:39 G 45028924.71 45028924.82 45028924.94 0.1909 0.0482

Jupiter 118575-07-19 06:27 G 45029888.63 45029888.77 45029888.91 0.0537 0.0018

Venus 118575-07-19 14:51 G 45029889.01 45029889.12 45029889.22 0.3711 0.0808

Saturn 118576-12-26 12:41 G 45030414.92 45030415.03 45030415.15 0.0280 0.0165

Saturn 118577-03-25 01:53 G 45030503.44 45030503.58 45030503.73 0.0281 0.0011

Saturn 118577-06-21 14:51 G 45030592.01 45030592.12 45030592.24 0.0281 0.0150

Earth 118577-09-18 06:12 G 45030680.64 45030680.76 45030680.87 0.2670 0.0479

Moon 118577-09-18 06:55 G 45030680.68 45030680.79 45030680.90 0.2669 0.0650 *

Venus 118581-02-01 07:53 G 45031912.76 45031912.83 45031912.91 0.3708 0.2544

Jupiter 118581-08-29 07:24 G 45032121.69 45032121.81 45032121.94 0.0491 0.0315

Jupiter 118581-11-27 05:43 G 45032211.64 45032211.74 45032211.85 0.0493 0.0386

Mars 118582-04-19 15:05 G 45032355.03 45032355.13 45032355.24 0.1916 0.0780

Jupiter 118587-05-07 09:19 G 45034198.76 45034198.89 45034199.02 0.0537 0.0158

Venus 118588-03-01 11:29 G 45034497.84 45034497.98 45034498.11 0.3661 0.0787

Moon 118590-09-21 00:41 G 45035431.47 45035431.53 45035431.60 0.2661 0.2194

Earth 118590-09-21 00:55 G 45035431.48 45035431.54 45035431.60 0.2668 0.2280 *

Saturn 118591-04-16 18:12 G 45035639.14 45035639.26 45035639.38 0.0278 0.0194

Saturn 118591-07-14 12:55 G 45035727.87 45035728.04 45035728.21 0.0278 0.0011

Saturn 118591-10-11 07:39 G 45035816.69 45035816.82 45035816.96 0.0278 0.0176

Moon 118593-03-22 21:19 G 45036345.25 45036345.39 45036345.54 0.2657 0.0454

Earth 118593-03-22 22:17 G 45036345.28 45036345.43 45036345.57 0.2663 0.0285 *

Jupiter 118593-06-17 08:07 G 45036431.81 45036431.84 45036431.88 0.0490 0.0475

Jupiter 118593-09-15 05:58 G 45036521.60 45036521.75 45036521.91 0.0493 0.0213

Venus 118593-09-15 14:22 G 45036522.00 45036522.10 45036522.19 0.3666 0.2685

Uranus 118596-01-05 16:46 G 45037364.14 45037364.20 45037364.26 0.0138 0.0124

Uranus 118596-04-02 20:51 G 45037452.27 45037452.37 45037452.46 0.0138 0.0104

Uranus 118596-06-30 00:55 G 45037540.42 45037540.54 45037540.65 0.0138 0.0084

Uranus 118596-09-26 04:46 G 45037628.58 45037628.70 45037628.83 0.0138 0.0065

Uranus 118596-12-23 08:51 G 45037716.74 45037716.87 45037717.01 0.0138 0.0045

Uranus 118597-03-21 12:55 G 45037804.90 45037805.04 45037805.18 0.0138 0.0025

Uranus 118597-06-17 17:00 G 45037893.07 45037893.21 45037893.35 0.0138 0.0005

Uranus 118597-09-13 20:51 G 45037981.23 45037981.37 45037981.52 0.0138 0.0016

Uranus 118597-12-11 00:55 G 45038069.40 45038069.54 45038069.68 0.0139 0.0035

Uranus 118598-03-09 04:46 G 45038157.57 45038157.70 45038157.83 0.0139 0.0054

Uranus 118598-06-05 08:36 G 45038245.75 45038245.86 45038245.99 0.0139 0.0074

Uranus 118598-09-01 12:41 G 45038333.93 45038334.03 45038334.13 0.0139 0.0093

Uranus 118598-11-28 16:17 G 45038422.11 45038422.18 45038422.27 0.0139 0.0113

Jupiter 118599-02-23 11:29 G 45038508.88 45038508.98 45038509.08 0.0538 0.0350

Uranus 118599-02-24 20:07 G 45038510.31 45038510.34 45038510.39 0.0139 0.0132

Jupiter 118599-05-23 23:15 G 45038598.37 45038598.47 45038598.57 0.0535 0.0371

Mars 118602-02-26 00:55 G 45039606.40 45039606.54 45039606.69 0.1632 0.0732

Mars 118603-01-06 23:58 G 45039921.48 45039921.50 45039921.53 0.1902 0.1849

Jupiter 118605-07-05 05:58 G 45040831.58 45040831.75 45040831.92 0.0492 0.0039

Moon 118606-03-26 23:43 G 45041096.45 45041096.49 45041096.54 0.2666 0.2532

Saturn 118606-05-16 14:22 G 45041147.01 45041147.10 45041147.20 0.0281 0.0212

Saturn 118606-08-13 03:34 G 45041235.52 45041235.65 45041235.79 0.0281 0.0053

Saturn 118606-11-09 16:46 G 45041324.07 45041324.20 45041324.33 0.0282 0.0105

Saturn 118607-02-06 05:29 G 45041412.68 45041412.73 45041412.78 0.0282 0.0261

Moon 118610-09-17 16:17 G 45042732.07 45042732.18 45042732.29 0.2665 0.0953

Earth 118610-09-17 16:03 G 45042732.07 45042732.17 45042732.28 0.2672 0.0987 *

Jupiter 118611-03-13 01:53 G 45042908.45 45042908.58 45042908.71 0.0536 0.0192

Neptune 118611-06-07 16:31 G 45042995.15 45042995.19 45042995.25 0.0088 0.0082

Mars 118611-07-19 03:48 G 45043036.51 45043036.66 45043036.82 0.1627 0.0420

Neptune 118611-09-03 18:12 G 45043083.19 45043083.26 45043083.35 0.0088 0.0075

Neptune 118611-11-30 19:53 G 45043171.25 45043171.33 45043171.43 0.0088 0.0068

Neptune 118612-02-26 21:34 G 45043259.30 45043259.40 45043259.51 0.0088 0.0060

Neptune 118612-05-24 23:15 G 45043347.36 45043347.47 45043347.59 0.0088 0.0053

Mars 118612-05-29 07:39 G 45043351.71 45043351.82 45043351.93 0.1909 0.0618

Neptune 118612-08-21 00:55 G 45043435.42 45043435.54 45043435.67 0.0088 0.0046

Neptune 118612-11-17 02:36 G 45043523.49 45043523.61 45043523.74 0.0088 0.0039

Neptune 118613-02-13 04:17 G 45043611.55 45043611.68 45043611.82 0.0088 0.0032

Neptune 118613-05-12 05:58 G 45043699.61 45043699.75 45043699.89 0.0088 0.0025

Neptune 118613-08-08 07:39 G 45043787.68 45043787.82 45043787.96 0.0088 0.0018

Neptune 118613-11-04 09:05 G 45043875.74 45043875.88 45043876.03 0.0088 0.0012

Neptune 118614-01-31 10:46 G 45043963.81 45043963.95 45043964.09 0.0088 0.0005

Neptune 118614-04-29 12:27 G 45044051.88 45044052.02 45044052.16 0.0088 0.0002

Neptune 118614-07-26 13:53 G 45044139.94 45044140.08 45044140.23 0.0088 0.0010

Neptune 118614-10-22 15:34 G 45044228.01 45044228.15 45044228.29 0.0088 0.0016

Neptune 118615-01-18 17:00 G 45044316.08 45044316.21 45044316.35 0.0088 0.0023

Neptune 118615-04-16 18:41 G 45044404.15 45044404.28 45044404.42 0.0088 0.0030

Neptune 118615-07-13 20:07 G 45044492.22 45044492.34 45044492.48 0.0088 0.0037

Neptune 118615-10-09 21:34 G 45044580.29 45044580.40 45044580.54 0.0088 0.0044

Neptune 118616-01-05 23:15 G 45044668.36 45044668.47 45044668.59 0.0088 0.0050

Neptune 118616-04-03 00:55 G 45044756.43 45044756.54 45044756.65 0.0088 0.0056

Neptune 118616-06-30 02:07 G 45044844.51 45044844.59 45044844.70 0.0088 0.0064

Neptune 118616-09-26 04:03 G 45044932.58 45044932.67 45044932.75 0.0088 0.0070

Neptune 118616-12-23 05:15 G 45045020.66 45045020.72 45045020.80 0.0088 0.0077

Neptune 118617-03-21 06:41 G 45045108.75 45045108.78 45045108.84 0.0088 0.0083

Jupiter 118617-04-23 05:29 G 45045141.57 45045141.73 45045141.90 0.0491 0.0143

Saturn 118620-09-03 20:07 G 45046371.25 45046371.34 45046371.45 0.0279 0.0227

Saturn 118620-12-01 14:51 G 45046459.95 45046460.12 45046460.29 0.0278 0.0043

Mars 118620-12-08 06:55 G 45046466.74 45046466.79 45046466.83 0.1622 0.1545

Venus 118621-01-25 01:53 G 45046514.50 45046514.58 45046514.67 0.3718 0.2242

Saturn 118621-02-28 09:34 G 45046548.76 45046548.90 45046549.05 0.0278 0.0143

Mars 118621-10-19 15:19 G 45046782.03 45046782.14 45046782.25 0.1915 0.0625

Jupiter 118622-12-30 04:31 G 45047218.55 45047218.69 45047218.83 0.0537 0.0010

Moon 118623-09-20 10:17 G 45047482.82 45047482.93 45047483.04 0.2668 0.0763

Earth 118623-09-20 11:00 G 45047482.86 45047482.96 45047483.07 0.2670 0.0871 *

Earth 118626-03-22 01:39 G 45048396.53 45048396.57 45048396.60 0.2660 0.2559

Venus 118626-08-10 19:24 G 45048538.20 45048538.31 45048538.42 0.3714 0.0403

Jupiter 118629-02-09 05:58 G 45049451.62 45049451.75 45049451.88 0.0490 0.0309

Jupiter 118629-05-10 04:17 G 45049541.58 45049541.68 45049541.78 0.0493 0.0388

Venus 118632-02-24 12:41 G 45050561.93 45050562.03 45050562.13 0.3710 0.1377

Jupiter 118634-10-18 07:39 G 45051528.69 45051528.82 45051528.95 0.0538 0.0164

Saturn 118635-10-03 16:17 G 45051879.12 45051879.18 45051879.23 0.0280 0.0256

Saturn 118635-12-31 05:29 G 45051967.60 45051967.73 45051967.86 0.0280 0.0097

Saturn 118636-03-28 18:27 G 45052056.14 45052056.27 45052056.41 0.0281 0.0060

Saturn 118636-06-25 07:24 G 45052144.72 45052144.81 45052144.90 0.0281 0.0215

Uranus 118636-07-27 12:12 G 45052176.99 45052177.01 45052177.04 0.0140 0.0138

Moon 118636-09-22 05:43 G 45052233.71 45052233.74 45052233.76 0.2673 0.2589

Earth 118636-09-22 05:58 G 45052233.74 45052233.75 45052233.75 0.2667 0.2659 *

Uranus 118636-10-23 18:12 G 45052265.17 45052265.26 45052265.37 0.0140 0.0114

Uranus 118637-01-20 00:27 G 45052353.39 45052353.52 45052353.66 0.0140 0.0090

Uranus 118637-04-18 06:41 G 45052441.63 45052441.78 45052441.93 0.0140 0.0066

Uranus 118637-07-15 12:41 G 45052529.87 45052530.03 45052530.20 0.0140 0.0042

Venus 118637-09-09 05:43 G 45052585.69 45052585.74 45052585.80 0.3707 0.3102

Uranus 118637-10-11 19:10 G 45052618.13 45052618.30 45052618.47 0.0140 0.0017

Uranus 118638-01-08 01:24 G 45052706.39 45052706.56 45052706.73 0.0140 0.0007

Uranus 118638-04-06 07:39 G 45052794.65 45052794.82 45052794.99 0.0140 0.0032

Uranus 118638-07-03 13:53 G 45052882.93 45052883.08 45052883.25 0.0140 0.0057

Uranus 118638-09-29 20:07 G 45052971.21 45052971.34 45052971.49 0.0139 0.0083

Uranus 118638-12-27 02:36 G 45053059.51 45053059.61 45053059.73 0.0139 0.0107

Venus 118639-03-24 09:34 G 45053146.82 45053146.90 45053146.98 0.3658 0.3022

Moon 118639-03-25 04:03 G 45053147.53 45053147.67 45053147.81 0.2669 0.0282

Earth 118639-03-25 04:17 G 45053147.53 45053147.68 45053147.82 0.2663 0.0316 *

Uranus 118639-03-25 09:05 G 45053147.84 45053147.88 45053147.94 0.0139 0.0132

Jupiter 118640-11-28 06:12 G 45053761.73 45053761.76 45053761.80 0.0490 0.0476

Jupiter 118641-02-26 04:03 G 45053851.52 45053851.67 45053851.82 0.0492 0.0210

Mars 118641-08-27 01:39 G 45054033.44 45054033.57 45054033.71 0.1632 0.0913

Moon 118643-09-16 01:24 G 45054783.54 45054783.56 45054783.58 0.2669 0.2607

Earth 118643-09-16 02:07 G 45054783.55 45054783.59 45054783.63 0.2673 0.2469 *

Venus 118644-10-07 11:58 G 45055170.86 45055171.00 45055171.14 0.3662 0.0287

Jupiter 118646-08-06 10:17 G 45055838.83 45055838.93 45055839.04 0.0538 0.0340

Jupiter 118646-11-03 22:17 G 45055928.34 45055928.43 45055928.52 0.0535 0.0383

Saturn 118650-04-20 12:41 G 45057191.88 45057192.03 45057192.18 0.0278 0.0118

Saturn 118650-07-18 07:24 G 45057280.64 45057280.81 45057280.97 0.0278 0.0067

Saturn 118650-10-15 02:07 G 45057369.53 45057369.59 45057369.67 0.0278 0.0255

Mars 118651-01-17 04:17 G 45057463.52 45057463.68 45057463.84 0.1627 0.0258

Mars 118651-11-28 07:53 G 45057778.72 45057778.83 45057778.94 0.1909 0.0779

Jupiter 118652-12-15 04:17 G 45058161.51 45058161.68 45058161.85 0.0492 0.0042

Moon 118656-09-17 20:36 G 45059534.25 45059534.36 45059534.48 0.2677 0.0664

Earth 118656-09-17 21:05 G 45059534.27 45059534.38 45059534.50 0.2671 0.0591 *

Jupiter 118658-05-25 12:27 G 45060149.01 45060149.02 45060149.04 0.0538 0.0532

Jupiter 118658-08-23 00:55 G 45060238.41 45060238.54 45060238.66 0.0536 0.0202

Pluto 118658-08-31 08:07 G 45060246.78 45060246.84 45060246.92 0.0085 0.0070

Pluto 118658-11-27 09:34 G 45060334.80 45060334.90 45060335.00 0.0085 0.0052

Pluto 118659-02-23 10:46 G 45060422.83 45060422.95 45060423.07 0.0085 0.0035

Pluto 118659-05-22 11:58 G 45060510.88 45060511.00 45060511.13 0.0085 0.0018

Pluto 118659-08-18 13:24 G 45060598.92 45060599.06 45060599.19 0.0085 0.0003

Pluto 118659-11-14 14:22 G 45060686.98 45060687.10 45060687.24 0.0085 0.0017

Pluto 118660-02-10 15:34 G 45060775.04 45060775.15 45060775.28 0.0084 0.0034

Pluto 118660-05-08 16:46 G 45060863.10 45060863.20 45060863.31 0.0084 0.0051

Mars 118660-06-08 07:24 G 45060893.73 45060893.81 45060893.89 0.1623 0.1378

Pluto 118660-08-04 17:58 G 45060951.18 45060951.25 45060951.33 0.0084 0.0068

Mars 118661-04-19 15:19 G 45061209.03 45061209.14 45061209.26 0.1915 0.0486

Jupiter 118664-10-03 04:31 G 45062471.53 45062471.69 45062471.85 0.0491 0.0129

Saturn 118665-05-19 06:41 G 45062699.66 45062699.78 45062699.90 0.0281 0.0148

Saturn 118665-08-15 19:53 G 45062788.19 45062788.33 45062788.47 0.0281 0.0010

Saturn 118665-11-12 08:51 G 45062876.76 45062876.87 45062876.98 0.0282 0.0167

Earth 118669-09-20 16:03 G 45064285.07 45064285.17 45064285.27 0.2669 0.1243

Moon 118669-09-20 16:31 G 45064285.09 45064285.19 45064285.29 0.2674 0.1326 *

Jupiter 118670-06-11 03:34 G 45064548.51 45064548.65 45064548.78 0.0536 0.0028

Mars 118670-09-09 22:31 G 45064639.40 45064639.44 45064639.48 0.1922 0.1785

Venus 118672-02-16 06:12 G 45065163.73 45065163.76 45065163.80 0.3720 0.3525

Earth 118672-03-22 07:24 G 45065198.72 45065198.81 45065198.91 0.2661 0.2003

Moon 118672-03-22 08:36 G 45065198.76 45065198.86 45065198.97 0.2664 0.1868 *

Jupiter 118676-07-22 04:31 G 45066781.56 45066781.69 45066781.82 0.0490 0.0304

Jupiter 118676-10-20 02:51 G 45066871.52 45066871.62 45066871.72 0.0493 0.0394

Venus 118677-08-31 23:58 G 45067187.40 45067187.50 45067187.60 0.3717 0.1639

Saturn 118679-09-07 14:07 G 45067923.96 45067924.09 45067924.24 0.0279 0.0154

Uranus 118679-10-30 20:07 G 45067977.34 45067977.34 45067977.36 0.0138 0.0137

Saturn 118679-12-05 08:51 G 45068012.70 45068012.87 45068013.04 0.0278 0.0031

Uranus 118680-01-27 00:12 G 45068065.45 45068065.51 45068065.60 0.0138 0.0117

Saturn 118680-03-03 03:48 G 45068101.56 45068101.66 45068101.77 0.0278 0.0219

Uranus 118680-04-24 04:17 G 45068153.59 45068153.68 45068153.80 0.0138 0.0097

Uranus 118680-07-21 08:22 G 45068241.74 45068241.85 45068241.98 0.0138 0.0078

Uranus 118680-10-17 12:27 G 45068329.90 45068330.02 45068330.16 0.0138 0.0058

Uranus 118681-01-13 16:46 G 45068418.06 45068418.20 45068418.34 0.0138 0.0037

Mars 118681-02-25 02:22 G 45068460.48 45068460.60 45068460.72 0.1632 0.1088

Uranus 118681-04-11 20:51 G 45068506.22 45068506.37 45068506.51 0.0138 0.0017

Uranus 118681-07-09 00:41 G 45068594.39 45068594.53 45068594.68 0.0138 0.0004

Uranus 118681-10-05 04:46 G 45068682.56 45068682.70 45068682.84 0.0138 0.0023

Uranus 118682-01-01 08:36 G 45068770.73 45068770.86 45068771.00 0.0139 0.0042

Jupiter 118682-03-30 05:43 G 45068858.61 45068858.74 45068858.87 0.0538 0.0168

Uranus 118682-03-30 12:41 G 45068858.90 45068859.03 45068859.15 0.0139 0.0062

Uranus 118682-06-26 16:17 G 45068947.08 45068947.18 45068947.31 0.0139 0.0082

Uranus 118682-09-22 20:22 G 45069035.26 45069035.35 45069035.45 0.0139 0.0101

Uranus 118682-12-20 00:12 G 45069123.45 45069123.51 45069123.58 0.0139 0.0120

Venus 118683-03-17 17:15 G 45069211.12 45069211.22 45069211.33 0.3713 0.0242

Earth 118685-03-25 10:03 G 45069949.79 45069949.92 45069950.06 0.2663 0.0887

Moon 118685-03-25 10:46 G 45069949.82 45069949.95 45069950.09 0.2657 0.1021 *

Jupiter 118688-05-10 05:00 G 45071091.67 45071091.71 45071091.76 0.0490 0.0467

Jupiter 118688-08-08 02:36 G 45071181.46 45071181.61 45071181.77 0.0492 0.0219

Venus 118688-09-30 10:31 G 45071234.85 45071234.94 45071235.03 0.3710 0.1944

Earth 118689-09-16 07:10 G 45071585.72 45071585.80 45071585.87 0.2673 0.2077

Moon 118689-09-16 07:24 G 45071585.74 45071585.81 45071585.88 0.2679 0.2057 *

Mars 118690-07-18 05:00 G 45071890.55 45071890.71 45071890.87 0.1627 0.0078

Mars 118691-05-29 07:53 G 45072205.72 45072205.83 45072205.93 0.1908 0.0906

Jupiter 118694-01-16 08:36 G 45073168.76 45073168.86 45073168.97 0.0539 0.0345

Jupiter 118694-04-15 20:36 G 45073258.27 45073258.36 45073258.45 0.0536 0.0381

Venus 118694-04-16 03:34 G 45073258.64 45073258.65 45073258.67 0.3706 0.3648

Saturn 118694-10-06 08:36 G 45073431.76 45073431.86 45073431.96 0.0280 0.0191

Saturn 118695-01-02 21:48 G 45073520.27 45073520.41 45073520.55 0.0280 0.0033

Saturn 118695-04-01 10:46 G 45073608.82 45073608.95 45073609.08 0.0280 0.0123

Neptune 118695-05-05 09:34 G 45073642.90 45073642.90 45073642.95 0.0089 0.0088

Saturn 118695-06-28 23:29 G 45073697.46 45073697.48 45073697.50 0.0281 0.0277

Neptune 118695-08-01 12:41 G 45073730.96 45073731.03 45073731.12 0.0089 0.0079

Neptune 118695-10-28 15:19 G 45073819.05 45073819.14 45073819.26 0.0089 0.0071

Venus 118695-10-29 09:48 G 45073819.80 45073819.91 45073820.03 0.3659 0.2007

Neptune 118696-01-24 18:27 G 45073907.15 45073907.27 45073907.40 0.0089 0.0062

Neptune 118696-04-21 21:05 G 45073995.25 45073995.38 45073995.53 0.0089 0.0054

Neptune 118696-07-18 23:58 G 45074083.36 45074083.50 45074083.66 0.0089 0.0045

Neptune 118696-10-15 03:05 G 45074171.47 45074171.63 45074171.79 0.0089 0.0037

Neptune 118697-01-11 05:43 G 45074259.58 45074259.74 45074259.92 0.0089 0.0028

Neptune 118697-04-09 08:51 G 45074347.70 45074347.87 45074348.04 0.0089 0.0019

Neptune 118697-07-06 11:43 G 45074435.82 45074435.99 45074436.17 0.0089 0.0010

Neptune 118697-10-02 14:36 G 45074523.94 45074524.11 45074524.29 0.0089 0.0003

Neptune 118697-12-29 17:43 G 45074612.06 45074612.24 45074612.41 0.0089 0.0007

Neptune 118698-03-27 20:36 G 45074700.18 45074700.36 45074700.54 0.0089 0.0016

Neptune 118698-06-23 23:29 G 45074788.31 45074788.48 45074788.65 0.0089 0.0025

Neptune 118698-09-20 02:22 G 45074876.44 45074876.60 45074876.77 0.0089 0.0034

Neptune 118698-12-17 05:15 G 45074964.58 45074964.72 45074964.89 0.0089 0.0043

Neptune 118699-03-15 08:07 G 45075052.71 45075052.84 45075053.00 0.0089 0.0052

Neptune 118699-06-11 11:15 G 45075140.85 45075140.97 45075141.11 0.0089 0.0061

Neptune 118699-09-07 14:07 G 45075229.00 45075229.09 45075229.22 0.0089 0.0070

Neptune 118699-12-04 17:15 G 45075317.16 45075317.22 45075317.32 0.0089 0.0079

Mars 118699-12-08 07:53 G 45075320.73 45075320.83 45075320.94 0.1622 0.1212

Neptune 118700-03-02 20:22 G 45075405.34 45075405.35 45075405.39 0.0089 0.0088

Jupiter 118700-05-28 02:36 G 45075491.44 45075491.61 45075491.78 0.0491 0.0043

Mars 118700-10-19 15:19 G 45075636.03 45075636.14 45075636.26 0.1915 0.0344

Venus 118701-05-15 12:27 G 45075843.89 45075844.02 45075844.15 0.3663 0.1363

Earth 118702-09-20 02:07 G 45076336.47 45076336.59 45076336.71 0.2671 0.0203

Moon 118702-09-20 02:51 G 45076336.51 45076336.62 45076336.74 0.2670 0.0061 *

Jupiter 118705-11-05 11:29 G 45077478.95 45077478.98 45077479.01 0.0539 0.0522

Jupiter 118706-02-02 23:58 G 45077568.37 45077568.50 45077568.62 0.0536 0.0214

Saturn 118709-01-25 11:58 G 45078655.91 45078656.00 45078656.10 0.0279 0.0228

Saturn 118709-04-24 06:27 G 45078744.60 45078744.77 45078744.94 0.0278 0.0045

Saturn 118709-07-22 01:10 G 45078833.41 45078833.55 45078833.70 0.0278 0.0141

Mars 118710-03-11 22:46 G 45079066.39 45079066.45 45079066.51 0.1921 0.1624

Jupiter 118712-03-16 03:05 G 45079801.47 45079801.63 45079801.79 0.0491 0.0124

Moon 118715-09-22 20:51 G 45081087.28 45081087.37 45081087.47 0.2662 0.1566

Earth 118715-09-22 21:05 G 45081087.29 45081087.38 45081087.47 0.2669 0.1628 *

Jupiter 118717-11-22 02:36 G 45081878.47 45081878.61 45081878.74 0.0536 0.0035

Moon 118718-03-24 12:41 G 45082000.92 45082001.03 45082001.14 0.2656 0.1611

Earth 118718-03-24 13:39 G 45082000.95 45082001.07 45082001.19 0.2661 0.1416 *

Uranus 118720-08-17 20:07 G 45082878.29 45082878.34 45082878.41 0.0140 0.0129

Mars 118720-08-27 02:51 G 45082887.52 45082887.62 45082887.72 0.1633 0.1257

Uranus 118720-11-14 02:22 G 45082966.49 45082966.60 45082966.71 0.0140 0.0105

Uranus 118721-02-10 08:22 G 45083054.72 45083054.85 45083054.99 0.0140 0.0081

Uranus 118721-05-09 14:36 G 45083142.96 45083143.11 45083143.27 0.0140 0.0057

Uranus 118721-08-05 20:51 G 45083231.20 45083231.37 45083231.54 0.0140 0.0033

Uranus 118721-11-02 03:05 G 45083319.46 45083319.63 45083319.80 0.0140 0.0008

Uranus 118722-01-29 09:19 G 45083407.72 45083407.89 45083408.07 0.0140 0.0017

Uranus 118722-04-27 15:34 G 45083495.99 45083496.15 45083496.32 0.0140 0.0042

Uranus 118722-07-24 21:48 G 45083584.27 45083584.41 45083584.58 0.0139 0.0067

Uranus 118722-10-21 04:17 G 45083672.56 45083672.68 45083672.82 0.0139 0.0092

Uranus 118723-01-17 10:46 G 45083760.86 45083760.95 45083761.05 0.0139 0.0116

Jupiter 118724-01-03 03:34 G 45084111.51 45084111.65 45084111.78 0.0491 0.0291

Saturn 118724-02-24 09:19 G 45084163.83 45084163.89 45084163.96 0.0280 0.0247

Jupiter 118724-04-02 01:53 G 45084201.49 45084201.58 45084201.67 0.0493 0.0409

Saturn 118724-05-22 22:46 G 45084252.31 45084252.45 45084252.58 0.0281 0.0088

Saturn 118724-08-19 11:43 G 45084340.86 45084340.99 45084341.13 0.0281 0.0070

Saturn 118724-11-16 00:27 G 45084429.45 45084429.52 45084429.61 0.0281 0.0226

Venus 118728-09-23 04:17 G 45085836.62 45085836.68 45085836.75 0.3719 0.2906

Jupiter	118729-09-10 05:00 G	45086188.58	45086188.71	45086188.84	0.0537	0.0153
Mars	118730-01-17 05:43 G	45086317.57	45086317.74	45086317.90	0.1628	0.0105
Mars	118730-11-28 07:53 G	45086632.73	45086632.83	45086632.93	0.1908	0.1050
Moon	118731-03-27 15:05 G	45086752.00	45086752.13	45086752.25	0.2667	0.1353
Earth	118731-03-27 16:17 G	45086752.06	45086752.18	45086752.30	0.2663	0.1477 *
Venus	118734-04-08 22:03 G	45087860.31	45087860.42	45087860.52	0.3716	0.1049
Moon	118735-09-18 12:12 G	45088387.92	45088388.01	45088388.10	0.2666	0.1701
Earth	118735-09-18 12:12 G	45088387.92	45088388.01	45088388.10	0.2673	0.1673 *
Jupiter	118735-10-22 03:48 G	45088421.60	45088421.66	45088421.71	0.0490	0.0459
Jupiter	118736-01-20 01:24 G	45088511.41	45088511.56	45088511.71	0.0492	0.0226
Saturn	118738-06-14 13:10 G	45089388.01	45089388.05	45089388.10	0.0279	0.0268
Saturn	118738-09-11 07:39 G	45089476.66	45089476.82	45089476.98	0.0279	0.0085
Saturn	118738-12-09 02:22 G	45089565.45	45089565.60	45089565.76	0.0278	0.0101
Mars	118739-06-09 08:36 G	45089747.74	45089747.86	45089747.98	0.1623	0.1043
Venus	118739-10-23 15:19 G	45089884.03	45089884.14	45089884.24	0.3712	0.0764
Mars	118740-04-19 15:34 G	45090063.03	45090063.15	45090063.26	0.1915	0.0206
Jupiter	118741-06-29 06:55 G	45090498.69	45090498.79	45090498.90	0.0539	0.0348
Jupiter	118741-09-26 18:55 G	45090588.20	45090588.29	45090588.39	0.0536	0.0378
Venus	118745-05-08 08:36 G	45091907.78	45091907.86	45091907.93	0.3709	0.2512
Jupiter	118747-11-08 01:24 G	45092821.40	45092821.56	45092821.73	0.0491	0.0055
Moon	118748-09-20 06:12 G	45093138.65	45093138.76	45093138.88	0.2670	0.0134
Earth	118748-09-20 07:10 G	45093138.68	45093138.80	45093138.91	0.2671	0.0193 *
Mars	118749-09-09 22:46 G	45093493.37	45093493.45	45093493.52	0.1921	0.1499
Venus	118752-06-05 10:17 G	45094492.79	45094492.93	45094493.06	0.3660	0.0969
Jupiter	118753-04-17 09:34 G	45094808.88	45094808.90	45094808.93	0.0539	0.0528
Jupiter	118753-07-15 22:17 G	45094898.30	45094898.43	45094898.55	0.0537	0.0211
Saturn	118753-10-10 00:41 G	45094984.41	45094984.53	45094984.66	0.0280	0.0129
Saturn	118754-01-06 13:53 G	45095072.94	45095073.08	45095073.22	0.0280	0.0029
Saturn	118754-04-05 02:51 G	45095161.51	45095161.62	45095161.72	0.0280	0.0183
Venus	118757-12-20 12:55 G	45096516.93	45096517.04	45096517.14	0.3665	0.2444

Jupiter 118759-08-27 01:24 G 45097131.40 45097131.56 45097131.73 0.0491 0.0120

Mars 118760-02-26 03:34 G 45097314.58 45097314.65 45097314.72 0.1633 0.1442

Moon 118761-09-23 01:53 G 45097889.50 45097889.58 45097889.66 0.2675 0.1937

Earth 118761-09-23 02:07 G 45097889.51 45097889.59 45097889.66 0.2668 0.2007 *

Uranus 118763-11-21 04:17 G 45098678.63 45098678.68 45098678.72 0.0138 0.0129

Uranus 118764-02-17 08:07 G 45098766.76 45098766.84 45098766.93 0.0138 0.0109

Earth 118764-03-24 19:39 G 45098803.18 45098803.32 45098803.45 0.2662 0.0845

Moon 118764-03-24 19:39 G 45098803.19 45098803.32 45098803.46 0.2668 0.0905 *

Uranus 118764-05-15 12:12 G 45098854.91 45098855.01 45098855.13 0.0138 0.0089

Uranus 118764-08-11 16:17 G 45098943.06 45098943.18 45098943.31 0.0138 0.0069

Uranus 118764-11-07 20:22 G 45099031.22 45099031.35 45099031.49 0.0138 0.0050

Uranus 118765-02-04 00:27 G 45099119.38 45099119.52 45099119.67 0.0138 0.0030

Uranus 118765-05-03 04:31 G 45099207.55 45099207.69 45099207.83 0.0138 0.0009

Jupiter 118765-05-04 01:24 G 45099208.42 45099208.56 45099208.70 0.0537 0.0042

Uranus 118765-07-30 08:36 G 45099295.71 45099295.86 45099296.00 0.0138 0.0011

Uranus 118765-10-26 12:27 G 45099383.88 45099384.02 45099384.16 0.0138 0.0030

Uranus 118766-01-22 16:31 G 45099472.05 45099472.19 45099472.32 0.0138 0.0050

Uranus 118766-04-20 20:07 G 45099560.23 45099560.34 45099560.47 0.0139 0.0070

Uranus 118766-07-18 00:12 G 45099648.41 45099648.51 45099648.62 0.0139 0.0089

Uranus 118766-10-14 04:03 G 45099736.59 45099736.67 45099736.76 0.0139 0.0108

Uranus 118767-01-10 08:07 G 45099824.78 45099824.84 45099824.89 0.0139 0.0127

Saturn 118768-01-29 05:15 G 45100208.59 45100208.72 45100208.86 0.0279 0.0161

Saturn 118768-04-26 23:58 G 45100297.33 45100297.50 45100297.67 0.0278 0.0024

Saturn 118768-07-24 18:41 G 45100386.18 45100386.28 45100386.40 0.0278 0.0211

Mars 118769-07-18 05:58 G 45100744.59 45100744.75 45100744.91 0.1628 0.0258

Mars 118770-05-29 07:53 G 45101059.74 45101059.83 45101059.92 0.1908 0.1200

Jupiter 118771-06-15 02:07 G 45101441.45 45101441.59 45101441.72 0.0490 0.0283

Jupiter 118771-09-13 00:27 G 45101531.43 45101531.52 45101531.61 0.0493 0.0415

Neptune 118775-12-07 13:39 G 45103078.06 45103078.07 45103078.10 0.0088 0.0087

Neptune 118776-03-04 15:19 G 45103166.09 45103166.14 45103166.21 0.0088 0.0080

Neptune 118776-05-31 17:00 G 45103254.14 45103254.21 45103254.30 0.0088 0.0073

Neptune 118776-08-27 18:41 G 45103342.19 45103342.28 45103342.38 0.0088 0.0066

Neptune 118776-11-23 20:22 G 45103430.25 45103430.35 45103430.46 0.0088 0.0059

Neptune 118777-02-19 22:03 G 45103518.31 45103518.42 45103518.54 0.0088 0.0052

Jupiter 118777-02-20 04:03 G 45103518.54 45103518.67 45103518.80 0.0537 0.0141 *

Earth 118777-03-27 22:17 G 45103554.34 45103554.43 45103554.52 0.2664 0.2073

Moon 118777-03-27 23:43 G 45103554.43 45103554.49 45103554.55 0.2665 0.2393 *

Neptune 118777-05-18 23:43 G 45103606.37 45103606.49 45103606.62 0.0088 0.0045

Neptune 118777-08-15 01:24 G 45103694.43 45103694.56 45103694.69 0.0088 0.0038

Neptune 118777-11-11 03:05 G 45103782.50 45103782.63 45103782.77 0.0088 0.0031

Neptune 118778-02-07 04:46 G 45103870.56 45103870.70 45103870.84 0.0088 0.0024

Neptune 118778-05-06 06:27 G 45103958.63 45103958.77 45103958.91 0.0088 0.0017

Neptune 118778-08-02 08:07 G 45104046.70 45104046.84 45104046.98 0.0088 0.0010

Neptune 118778-10-29 09:34 G 45104134.76 45104134.90 45104135.05 0.0088 0.0004

Mars 118778-12-08 09:05 G 45104174.75 45104174.88 45104175.01 0.1623 0.0876

Neptune 118779-01-25 11:15 G 45104222.83 45104222.97 45104223.11 0.0088 0.0004

Neptune 118779-04-23 12:55 G 45104310.90 45104311.04 45104311.18 0.0088 0.0011

Neptune 118779-07-20 14:36 G 45104398.97 45104399.11 45104399.24 0.0088 0.0018

Neptune 118779-10-16 16:03 G 45104487.03 45104487.17 45104487.31 0.0088 0.0024

Mars 118779-10-19 15:34 G 45104490.03 45104490.15 45104490.27 0.1914 0.0068

Neptune 118780-01-12 17:29 G 45104575.10 45104575.23 45104575.37 0.0088 0.0031

Neptune 118780-04-09 18:55 G 45104663.18 45104663.29 45104663.43 0.0088 0.0039

Neptune 118780-07-06 20:51 G 45104751.25 45104751.37 45104751.49 0.0088 0.0045

Neptune 118780-10-02 22:17 G 45104839.32 45104839.43 45104839.55 0.0088 0.0051

Neptune 118780-12-29 23:43 G 45104927.39 45104927.49 45104927.60 0.0088 0.0058

Neptune 118781-03-28 01:24 G 45105015.47 45105015.56 45105015.66 0.0088 0.0065

Neptune 118781-06-24 02:51 G 45105103.54 45105103.62 45105103.71 0.0088 0.0071

Moon 118781-09-18 16:46 G 45105190.10 45105190.20 45105190.29 0.2678 0.1426

Earth 118781-09-18 17:00 G 45105190.11 45105190.21 45105190.32 0.2672 0.1277 *

Neptune 118781-09-20 04:17 G 45105191.63 45105191.68 45105191.75 0.0088 0.0078

Neptune 118781-12-17 05:58 G 45105279.72   45105279.75   45105279.79 0.0088 0.0084

Saturn   118783-02-27 01:24 G 45105716.45   45105716.56   45105716.67 0.0280 0.0187

Jupiter 118783-04-03 02:36 G 45105751.55   45105751.61   45105751.68 0.0490 0.0447

Saturn   118783-05-26 14:36 G 45105804.97   45105805.11   45105805.25 0.0281 0.0029

Jupiter 118783-07-02 00:27 G 45105841.37   45105841.52   45105841.67 0.0492 0.0241

Saturn   118783-08-23 03:34 G 45105893.53   45105893.65   45105893.78 0.0281 0.0128

Venus   118785-04-30 02:22 G 45106509.52   45106509.60   45106509.69 0.3719 0.2294

Jupiter 118788-12-09 06:12 G 45107828.66   45107828.76   45107828.88 0.0538 0.0329

Jupiter 118789-03-08 18:12 G 45107918.17   45107918.26   45107918.35 0.0535 0.0395

Mars   118789-03-10 22:46 G 45107920.37   45107920.45   45107920.54 0.1921 0.1341

Venus   118790-11-13 19:53 G 45108533.22   45108533.33   45108533.44 0.3715 0.0449

Earth   118794-09-21 12:12 G 45109940.89   45109941.01   45109941.12 0.2670 0.0582

Moon   118794-09-21 12:41 G 45109940.92   45109941.03   45109941.14 0.2674 0.0741 *

Jupiter 118795-04-20 00:12 G 45110151.35   45110151.51   45110151.68 0.0491 0.0065

Venus   118796-05-29 13:10 G 45110556.95   45110557.05   45110557.15 0.3711 0.1332

Saturn   118797-06-17 05:58 G 45110940.65   45110940.75   45110940.87 0.0279 0.0205

Saturn   118797-09-14 00:41 G 45111029.36   45111029.53   45111029.70 0.0279 0.0022

Saturn   118797-12-11 19:39 G 45111118.19   45111118.32   45111118.46 0.0279 0.0166

Mars   118799-08-27 04:03 G 45111741.65   45111741.67   45111741.69 0.1633 0.1614

Jupiter 118800-09-27 08:07 G 45112138.82   45112138.84   45112138.86 0.0539 0.0529

Jupiter 118800-12-25 20:36 G 45112228.24   45112228.36   45112228.49 0.0537 0.0210

Venus   118801-12-13 06:27 G 45112580.71   45112580.77   45112580.82 0.3708 0.3064

Venus   118803-06-27 08:22 G 45113141.79   45113141.85   45113141.92 0.3657 0.3194

Uranus   118804-09-07 03:34 G 45113579.58   45113579.65   45113579.74 0.0140 0.0122

Uranus   118804-12-04 09:48 G 45113667.79   45113667.91   45113668.04 0.0140 0.0098

Uranus   118805-03-02 15:48 G 45113756.02   45113756.16   45113756.31 0.0140 0.0074

Uranus   118805-05-29 22:03 G 45113844.26   45113844.42   45113844.59 0.0140 0.0050

Uranus   118805-08-26 04:17 G 45113932.51   45113932.68   45113932.86 0.0140 0.0025

Uranus   118805-11-22 10:46 G 45114020.77   45114020.95   45114021.12 0.0140 0.0004

Uranus   118806-02-18 16:46 G 45114109.04   45114109.20   45114109.38 0.0140 0.0025

Uranus 118806-05-17 23:00 G 45114197.31 45114197.46 45114197.63 0.0140 0.0050

Uranus 118806-08-14 05:29 G 45114285.59 45114285.73 45114285.88 0.0140 0.0074

Uranus 118806-11-10 11:43 G 45114373.88 45114373.99 45114374.13 0.0139 0.0100

Jupiter 118807-02-06 00:27 G 45114461.36 45114461.52 45114461.69 0.0491 0.0106

Uranus 118807-02-06 18:12 G 45114462.20 45114462.26 45114462.35 0.0139 0.0125

Earth 118807-09-24 06:55 G 45114691.75 45114691.79 45114691.84 0.2668 0.2391

Moon 118807-09-24 07:39 G 45114691.78 45114691.82 45114691.87 0.2664 0.2425 *

Pluto 118808-08-04 00:55 G 45115006.46 45115006.54 45115006.64 0.0059 0.0052

Pluto 118808-10-31 01:53 G 45115094.48 45115094.58 45115094.74 0.0059 0.0044

Venus 118809-01-10 10:31 G 45115165.80 45115165.94 45115166.08 0.3661 0.0063

Mars 118809-01-16 06:41 G 45115171.63 45115171.78 45115171.94 0.1628 0.0443

Pluto 118809-01-27 03:34 G 45115182.51 45115182.65 45115182.83 0.0059 0.0035

Pluto 118809-04-25 05:00 G 45115270.55 45115270.71 45115270.90 0.0059 0.0027

Pluto 118809-07-22 06:12 G 45115358.59 45115358.76 45115358.97 0.0059 0.0019

Pluto 118809-10-18 07:53 G 45115446.64 45115446.83 45115447.03 0.0059 0.0009

Mars 118809-11-27 07:53 G 45115486.75 45115486.83 45115486.91 0.1908 0.1334

Pluto 118810-01-14 09:19 G 45115534.70 45115534.89 45115535.09 0.0059 0.0001

Earth 118810-03-26 01:24 G 45115605.42 45115605.56 45115605.71 0.2662 0.0283

Moon 118810-03-26 02:07 G 45115605.45 45115605.59 45115605.74 0.2656 0.0271 *

Pluto 118810-04-12 10:46 G 45115622.76 45115622.95 45115623.15 0.0059 0.0009

Pluto 118810-07-09 11:58 G 45115710.82 45115711.00 45115711.20 0.0059 0.0017

Pluto 118810-10-05 13:10 G 45115798.89 45115799.05 45115799.24 0.0059 0.0027

Pluto 118811-01-01 14:22 G 45115886.96 45115887.10 45115887.28 0.0059 0.0036

Pluto 118811-03-30 16:03 G 45115975.05 45115975.17 45115975.31 0.0060 0.0044

Pluto 118811-06-26 17:29 G 45116063.15 45116063.23 45116063.33 0.0060 0.0053

Saturn 118812-07-16 03:48 G 45116448.58 45116448.66 45116448.74 0.0279 0.0225

Saturn 118812-10-12 17:00 G 45116537.07 45116537.21 45116537.35 0.0280 0.0067

Jupiter 118812-10-13 23:43 G 45116538.35 45116538.49 45116538.63 0.0537 0.0038

Saturn 118813-01-09 05:58 G 45116625.62 45116625.75 45116625.88 0.0280 0.0089

Saturn 118813-04-07 18:41 G 45116714.22 45116714.28 45116714.35 0.0280 0.0243

Venus 118814-07-27 13:24 G 45117190.03 45117190.06 45117190.09 0.3666 0.3558

Moon 118814-09-17 03:19 G 45117241.63 45117241.64 45117241.66 0.2680 0.2643

Mars 118818-06-08 09:34 G 45118601.76 45118601.90 45118602.05 0.1623 0.0705

Jupiter 118818-11-25 00:41 G 45118771.39 45118771.53 45118771.67 0.0490 0.0277

Jupiter 118819-02-22 22:46 G 45118861.37 45118861.45 45118861.54 0.0493 0.0421

Mars 118819-04-19 15:34 G 45118917.03 45118917.15 45118917.27 0.1915 0.0093

Moon 118823-03-29 03:05 G 45120356.59 45120356.63 45120356.66 0.2661 0.2566

Jupiter 118824-08-02 02:51 G 45120848.49 45120848.62 45120848.75 0.0538 0.0133

Saturn 118826-11-04 04:03 G 45121672.66 45121672.67 45121672.69 0.0279 0.0277

Saturn 118827-01-31 22:31 G 45121761.28 45121761.44 45121761.60 0.0279 0.0095

Saturn 118827-04-30 17:15 G 45121850.06 45121850.22 45121850.38 0.0278 0.0091

Earth 118827-09-19 22:03 G 45121992.31 45121992.42 45121992.53 0.2672 0.0883

Moon 118827-09-19 22:46 G 45121992.34 45121992.45 45121992.56 0.2670 0.0823 *

Mars 118828-09-08 23:00 G 45122347.36 45122347.46 45122347.55 0.1921 0.1190

Jupiter 118830-09-13 01:24 G 45123081.49 45123081.56 45123081.63 0.0490 0.0438

Jupiter 118830-12-11 23:00 G 45123171.32 45123171.46 45123171.61 0.0492 0.0248

Jupiter 118836-05-21 05:29 G 45125158.62 45125158.73 45125158.84 0.0538 0.0316

Venus 118836-05-21 06:41 G 45125158.75 45125158.78 45125158.81 0.3721 0.3584 *

Jupiter 118836-08-18 17:15 G 45125248.14 45125248.22 45125248.31 0.0535 0.0407

Moon 118840-09-21 17:00 G 45126743.10 45126743.21 45126743.31 0.2663 0.1001

Earth 118840-09-21 17:15 G 45126743.11 45126743.22 45126743.32 0.2670 0.0972 *

Venus 118841-12-05 00:27 G 45127182.42 45127182.52 45127182.61 0.3718 0.1692

Saturn 118842-03-01 17:29 G 45127269.10 45127269.23 45127269.36 0.0280 0.0127

Saturn 118842-05-29 06:41 G 45127357.63 45127357.78 45127357.92 0.0280 0.0032

Saturn 118842-08-25 19:24 G 45127446.21 45127446.31 45127446.42 0.0281 0.0186

Jupiter 118842-09-29 23:15 G 45127481.30 45127481.47 45127481.64 0.0492 0.0077

Moon 118843-03-24 04:03 G 45127656.64 45127656.67 45127656.70 0.2655 0.2583

Earth 118843-03-24 05:00 G 45127656.67 45127656.71 45127656.76 0.2660 0.2534 *

Venus 118847-06-20 17:43 G 45129206.13 45129206.24 45129206.35 0.3714 0.0148

Uranus 118847-12-11 11:43 G 45129379.93 45129379.99 45129380.06 0.0138 0.0122

Uranus 118848-03-08 15:48 G 45129468.07 45129468.16 45129468.27 0.0138 0.0102

Jupiter 118848-03-09 07:39 G 45129468.78 45129468.82 45129468.87 0.0539 0.0506

Uranus 118848-06-04 19:53 G 45129556.22 45129556.33 45129556.46 0.0138 0.0082

Jupiter 118848-06-06 20:07 G 45129558.22 45129558.34 45129558.46 0.0536 0.0230

Mars 118848-07-17 07:24 G 45129598.66 45129598.81 45129598.96 0.1628 0.0615

Uranus 118848-08-31 23:58 G 45129644.38 45129644.50 45129644.64 0.0138 0.0062

Uranus 118848-11-28 04:03 G 45129732.54 45129732.67 45129732.82 0.0138 0.0042

Uranus 118849-02-24 08:22 G 45129820.70 45129820.85 45129820.99 0.0138 0.0022

Uranus 118849-05-23 12:12 G 45129908.87 45129909.01 45129909.16 0.0138 0.0004

Mars 118849-05-28 07:53 G 45129913.76 45129913.83 45129913.91 0.1908 0.1475

Uranus 118849-08-19 16:17 G 45129997.04 45129997.18 45129997.32 0.0138 0.0018

Uranus 118849-11-15 20:07 G 45130085.21 45130085.34 45130085.48 0.0138 0.0037

Uranus 118850-02-12 00:12 G 45130173.38 45130173.51 45130173.64 0.0138 0.0057

Uranus 118850-05-11 03:48 G 45130261.55 45130261.66 45130261.79 0.0139 0.0077

Uranus 118850-08-07 07:53 G 45130349.73 45130349.83 45130349.93 0.0139 0.0096

Uranus 118850-11-03 11:43 G 45130437.92 45130437.99 45130438.07 0.0139 0.0115

Uranus 118851-01-30 15:48 G 45130526.12 45130526.16 45130526.19 0.0139 0.0134

Venus 118853-01-03 11:00 G 45131229.87 45131229.96 45131230.06 0.3710 0.1903

Moon 118853-09-24 11:15 G 45131493.94 45131493.97 45131494.00 0.2670 0.2574

Jupiter 118854-07-18 23:29 G 45131791.31 45131791.48 45131791.64 0.0491 0.0095

Moon 118856-03-26 06:27 G 45132407.63 45132407.77 45132407.91 0.2667 0.0062

Earth 118856-03-26 07:24 G 45132407.67 45132407.81 45132407.96 0.2662 0.0317 *

Saturn 118856-06-19 23:00 G 45132493.31 45132493.46 45132493.60 0.0279 0.0143

Saturn 118856-09-16 17:43 G 45132582.07 45132582.24 45132582.40 0.0279 0.0042

Saturn 118856-12-14 12:27 G 45132670.93 45132671.02 45132671.12 0.0279 0.0231

Mars 118857-12-07 10:17 G 45133028.78 45133028.93 45133029.08 0.1623 0.0534

Venus 118858-07-20 04:03 G 45133253.65 45133253.67 45133253.70 0.3707 0.3601

Mars 118858-10-18 15:34 G 45133344.04 45133344.15 45133344.27 0.1914 0.0242

Neptune 118860-01-31 07:53 G 45133813.80 45133813.83 45133813.90 0.0089 0.0085

Venus 118860-02-01 08:36 G 45133814.75 45133814.86 45133814.97 0.3658 0.2199

Jupiter 118860-03-25 22:03 G 45133868.29 45133868.42 45133868.56 0.0537 0.0042

Neptune 118860-04-28 11:00 G 45133901.88 45133901.96 45133902.06 0.0089 0.0076

Neptune 118860-07-25 13:39 G 45133989.97 45133990.07 45133990.20 0.0089 0.0068

Moon 118860-09-17 07:53 G 45134043.78 45134043.83 45134043.89 0.2667 0.2321

Earth 118860-09-17 07:53 G 45134043.78 45134043.83 45134043.88 0.2674 0.2379 *

Neptune 118860-10-21 16:46 G 45134078.07 45134078.20 45134078.33 0.0089 0.0059

Neptune 118861-01-17 19:24 G 45134166.18 45134166.31 45134166.46 0.0089 0.0051

Neptune 118861-04-15 22:17 G 45134254.28 45134254.43 45134254.59 0.0089 0.0042

Neptune 118861-07-13 01:10 G 45134342.39 45134342.55 45134342.72 0.0089 0.0034

Neptune 118861-10-09 04:03 G 45134430.51 45134430.67 45134430.84 0.0089 0.0025

Neptune 118862-01-05 06:55 G 45134518.62 45134518.79 45134518.97 0.0089 0.0017

Neptune 118862-04-03 09:48 G 45134606.74 45134606.91 45134607.09 0.0089 0.0008

Neptune 118862-06-30 12:55 G 45134694.86 45134695.04 45134695.22 0.0089 0.0002

Neptune 118862-09-26 15:48 G 45134782.98 45134783.16 45134783.34 0.0089 0.0010

Neptune 118862-12-23 18:41 G 45134871.11 45134871.28 45134871.46 0.0089 0.0019

Neptune 118863-03-21 21:34 G 45134959.24 45134959.40 45134959.57 0.0089 0.0028

Neptune 118863-06-18 00:41 G 45135047.37 45135047.53 45135047.69 0.0089 0.0037

Neptune 118863-09-14 03:34 G 45135135.50 45135135.65 45135135.81 0.0089 0.0045

Neptune 118863-12-11 06:27 G 45135223.64 45135223.77 45135223.92 0.0089 0.0055

Neptune 118864-03-08 09:34 G 45135311.78 45135311.90 45135312.03 0.0089 0.0063

Neptune 118864-06-04 12:27 G 45135399.93 45135400.02 45135400.13 0.0089 0.0073

Neptune 118864-08-31 15:34 G 45135488.09 45135488.15 45135488.23 0.0089 0.0082

Venus 118865-08-17 11:00 G 45135838.83 45135838.96 45135839.09 0.3663 0.1131

Jupiter 118866-05-06 23:43 G 45136101.35 45136101.49 45136101.63 0.0490 0.0261

Jupiter 118866-08-04 22:03 G 45136191.34 45136191.42 45136191.50 0.0492 0.0435

Mars 118868-03-09 22:46 G 45136774.36 45136774.45 45136774.55 0.1921 0.1058

Saturn 118871-07-19 20:07 G 45138001.22 45138001.34 45138001.46 0.0279 0.0162

Saturn 118871-10-16 09:05 G 45138089.74 45138089.88 45138090.03 0.0280 0.0011

Saturn 118872-01-12 22:03 G 45138178.30 45138178.42 45138178.54 0.0280 0.0150

Jupiter 118872-01-13 00:55 G 45138178.41 45138178.54 45138178.68 0.0538 0.0139 *

Moon 118873-09-20 02:22 G 45138794.48 45138794.60 45138794.71 0.2670 0.0692

Earth 118873-09-20 03:05 G 45138794.52 45138794.63 45138794.75 0.2672 0.0491 *

Jupiter 118878-02-22 23:58 G 45140411.42 45140411.50 45140411.58 0.0489 0.0430

Jupiter 118878-05-23 21:34 G 45140501.25 45140501.40 45140501.54 0.0492 0.0254

Jupiter 118883-11-01 04:03 G 45142488.56 45142488.67 45142488.78 0.0539 0.0312

Jupiter 118884-01-29 16:03 G 45142578.09 45142578.17 45142578.26 0.0536 0.0414

Saturn 118885-11-06 21:05 G 45143225.28 45143225.38 45143225.50 0.0279 0.0213

Saturn 118886-02-03 15:48 G 45143313.99 45143314.16 45143314.33 0.0279 0.0029

Saturn 118886-05-03 10:31 G 45143402.80 45143402.94 45143403.08 0.0279 0.0158

Moon 118886-09-22 22:03 G 45143545.32 45143545.42 45143545.52 0.2676 0.1400

Earth 118886-09-22 22:03 G 45143545.33 45143545.42 45143545.52 0.2670 0.1356 *

Mars 118888-01-16 07:53 G 45144025.69 45144025.83 45144025.97 0.1628 0.0781

Uranus 118888-07-01 05:29 G 45144192.70 45144192.73 45144192.76 0.0140 0.0137

Uranus 118888-09-27 11:29 G 45144280.89 45144280.98 45144281.08 0.0140 0.0114

Mars 118888-11-26 08:07 G 45144340.78 45144340.84 45144340.90 0.1907 0.1635

Uranus 118888-12-24 17:43 G 45144369.11 45144369.24 45144369.37 0.0140 0.0089

Uranus 118889-03-22 23:43 G 45144457.34 45144457.49 45144457.65 0.0140 0.0065

Earth 118889-03-24 11:00 G 45144458.87 45144458.96 45144459.06 0.2660 0.1967

Moon 118889-03-24 11:29 G 45144458.88 45144458.98 45144459.08 0.2666 0.1848 *

Uranus 118889-06-19 05:58 G 45144545.59 45144545.75 45144545.92 0.0140 0.0041

Uranus 118889-09-15 12:12 G 45144633.84 45144634.01 45144634.18 0.0140 0.0016

Uranus 118889-12-12 18:27 G 45144722.10 45144722.27 45144722.44 0.0140 0.0008

Uranus 118890-03-11 00:41 G 45144810.36 45144810.53 45144810.70 0.0140 0.0033

Jupiter 118890-03-11 21:48 G 45144811.24 45144811.41 45144811.58 0.0491 0.0084

Uranus 118890-06-07 07:10 G 45144898.64 45144898.80 45144898.96 0.0140 0.0058

Uranus 118890-09-03 13:24 G 45144986.92 45144987.06 45144987.20 0.0139 0.0083

Uranus 118890-11-30 19:53 G 45145075.22 45145075.33 45145075.44 0.0139 0.0108

Uranus 118891-02-27 02:07 G 45145163.55 45145163.59 45145163.65 0.0139 0.0133

Venus 118892-12-26 04:46 G 45145831.63 45145831.70 45145831.76 0.3720 0.2966

Jupiter 118895-08-20 06:27 G 45146798.72 45146798.77 45146798.83 0.0539 0.0497

Jupiter 118895-11-17 18:55 G 45146888.17 45146888.29 45146888.42 0.0536 0.0240

Mars 118897-06-07 10:46 G 45147455.80 45147455.95 45147456.11 0.1624 0.0365

Mars 118898-04-18 15:34 G 45147771.04 45147771.15 45147771.27 0.1914 0.0383

Venus 118898-07-11 22:17 G 45147855.33 45147855.43 45147855.53 0.3717 0.1103

Saturn 118900-12-06 20:07 G 45148733.26 45148733.34 45148733.43 0.0280 0.0224

Saturn 118901-03-05 09:34 G 45148821.76 45148821.90 45148822.04 0.0280 0.0066

Saturn 118901-06-01 22:31 G 45148910.31 45148910.44 45148910.58 0.0280 0.0090

Saturn 118901-08-29 11:15 G 45148998.91 45148998.97 45148999.04 0.0281 0.0245

Jupiter 118901-12-29 22:03 G 45149121.26 45149121.42 45149121.59 0.0491 0.0086

Earth 118902-03-28 13:24 G 45149209.93 45149210.06 45149210.20 0.2662 0.0893

Moon 118902-03-28 14:51 G 45149209.99 45149210.12 45149210.26 0.2663 0.1039 *

Venus 118904-01-26 15:48 G 45149879.05 45149879.16 45149879.26 0.3713 0.0716

Pluto 118905-07-15 19:24 G 45150415.27 45150415.31 45150415.38 0.0085 0.0077

Pluto 118905-10-11 20:51 G 45150503.28 45150503.37 45150503.47 0.0085 0.0059

Pluto 118906-01-07 22:03 G 45150591.31 45150591.42 45150591.54 0.0085 0.0042

Pluto 118906-04-05 23:15 G 45150679.35 45150679.47 45150679.60 0.0085 0.0025

Pluto 118906-07-03 00:41 G 45150767.40 45150767.53 45150767.66 0.0085 0.0007

Moon 118906-09-19 12:27 G 45150845.95 45150846.02 45150846.10 0.2680 0.2032

Earth 118906-09-19 12:55 G 45150845.97 45150846.04 45150846.12 0.2673 0.1974 *

Pluto 118906-09-29 01:53 G 45150855.45 45150855.58 45150855.71 0.0085 0.0010

Mars 118906-10-29 14:07 G 45150886.02 45150886.09 45150886.15 0.1619 0.1474

Pluto 118906-12-26 02:51 G 45150943.50 45150943.62 45150943.75 0.0085 0.0028

Pluto 118907-03-24 04:03 G 45151031.57 45151031.67 45151031.79 0.0084 0.0044

Pluto 118907-06-20 05:15 G 45151119.64 45151119.72 45151119.82 0.0084 0.0061

Jupiter 118907-09-06 21:34 G 45151198.27 45151198.40 45151198.54 0.0537 0.0062

Mars 118907-09-09 23:00 G 45151201.35 45151201.46 45151201.56 0.1920 0.0904

Pluto 118907-09-16 06:27 G 45151207.73 45151207.77 45151207.83 0.0084 0.0078

Venus 118909-08-11 08:51 G 45151902.79 45151902.87 45151902.95 0.3709 0.2458

Jupiter 118913-10-17 22:31 G 45153431.30 45153431.44 45153431.59 0.0490 0.0251

Jupiter 118914-01-15 20:51 G 45153521.30 45153521.37 45153521.44 0.0492 0.0446

Saturn 118915-03-27 21:19 G 45153957.34 45153957.39 45153957.45 0.0279 0.0264

Saturn 118915-06-24 16:03 G 45154046.00 45154046.17 45154046.33 0.0279 0.0080

Saturn 118915-09-21 10:31 G 45154134.79 45154134.94 45154135.11 0.0279 0.0107

Venus 118916-09-08 08:51 G 45154487.74 45154487.87 45154488.00 0.3659 0.1176

Jupiter 118919-06-25 23:29 G 45155508.35 45155508.48 45155508.61 0.0538 0.0138

Earth 118919-09-22 08:07 G 45155596.72 45155596.84 45155596.96 0.2671 0.0102

Moon 118919-09-22 08:51 G 45155596.75 45155596.87 45155596.98 0.2675 0.0062 *

Venus 118922-03-25 11:29 G 45156511.87 45156511.98 45156512.09 0.3664 0.2217

Jupiter 118925-08-05 23:15 G 45157741.38 45157741.47 45157741.56 0.0489 0.0414

Jupiter 118925-11-03 20:51 G 45157831.23 45157831.37 45157831.51 0.0492 0.0271

Mars 118927-07-18 08:36 G 45158452.73 45158452.86 45158452.99 0.1628 0.0964

Mars 118928-05-28 08:07 G 45158767.79 45158767.84 45158767.88 0.1907 0.1758

Saturn 118930-04-25 23:15 G 45159465.41 45159465.47 45159465.53 0.0279 0.0255

Saturn 118930-07-23 12:27 G 45159553.89 45159554.02 45159554.16 0.0279 0.0097

Saturn 118930-10-20 01:24 G 45159642.43 45159642.56 45159642.70 0.0280 0.0059

Saturn 118931-01-16 14:22 G 45159731.01 45159731.10 45159731.19 0.0280 0.0212

Jupiter 118931-04-14 02:07 G 45159818.48 45159818.59 45159818.70 0.0539 0.0319

Jupiter 118931-07-12 14:07 G 45159908.01 45159908.09 45159908.18 0.0536 0.0409

Uranus 118931-10-05 15:05 G 45159993.12 45159993.13 45159993.17 0.0138 0.0135

Uranus 118932-01-01 19:24 G 45160081.24 45160081.31 45160081.40 0.0138 0.0115

Uranus 118932-03-29 23:43 G 45160169.39 45160169.49 45160169.60 0.0138 0.0094

Uranus 118932-06-26 03:48 G 45160257.54 45160257.66 45160257.78 0.0138 0.0074

Uranus 118932-09-22 07:53 G 45160345.70 45160345.83 45160345.96 0.0138 0.0054

Earth 118932-09-24 03:05 G 45160347.54 45160347.63 45160347.72 0.2669 0.1731

Moon 118932-09-24 03:34 G 45160347.57 45160347.65 45160347.74 0.2665 0.1861 *

Uranus 118932-12-19 11:58 G 45160433.86 45160434.00 45160434.14 0.0138 0.0034

Uranus 118933-03-17 16:03 G 45160522.02 45160522.17 45160522.31 0.0138 0.0015

Uranus 118933-06-13 19:53 G 45160610.19 45160610.33 45160610.48 0.0138 0.0006

Uranus 118933-09-09 23:58 G 45160698.36 45160698.50 45160698.64 0.0138 0.0025

Uranus 118933-12-07 03:48 G 45160786.53 45160786.66 45160786.80 0.0138 0.0044

Uranus 118934-03-05 07:53 G 45160874.70 45160874.83 45160874.95 0.0138 0.0064

Uranus 118934-06-01 11:29 G 45160962.88 45160962.98 45160963.10 0.0139 0.0084

Uranus 118934-08-28 15:34 G 45161051.06 45161051.15 45161051.25 0.0139 0.0103

Uranus 118934-11-24 19:24 G 45161139.25 45161139.31 45161139.38 0.0139 0.0122

Earth 118935-03-26 17:00 G 45161261.09 45161261.21 45161261.33 0.2661 0.1408

Moon 118935-03-26 17:29 G 45161261.10 45161261.23 45161261.36 0.2654 0.1298 *

Mars 118936-12-07 11:15 G 45161882.81 45161882.97 45161883.13 0.1623 0.0200

Jupiter 118937-08-22 20:22 G 45162141.19 45162141.35 45162141.52 0.0491 0.0091

Mars 118937-10-18 15:48 G 45162198.04 45162198.16 45162198.27 0.1914 0.0532

Neptune 118940-09-03 12:27 G 45163249.00 45163249.02 45163249.06 0.0088 0.0086

Neptune 118940-11-30 14:07 G 45163337.04 45163337.09 45163337.17 0.0088 0.0079

Neptune 118941-02-26 15:48 G 45163425.09 45163425.16 45163425.26 0.0088 0.0072

Neptune 118941-05-25 17:29 G 45163513.15 45163513.23 45163513.34 0.0088 0.0065

Neptune 118941-08-21 19:10 G 45163601.20 45163601.30 45163601.42 0.0088 0.0058

Neptune 118941-11-17 20:51 G 45163689.26 45163689.37 45163689.50 0.0088 0.0051

Neptune 118942-02-13 22:31 G 45163777.33 45163777.44 45163777.58 0.0088 0.0044

Neptune 118942-05-13 00:12 G 45163865.39 45163865.51 45163865.65 0.0088 0.0037

Neptune 118942-08-09 01:53 G 45163953.45 45163953.58 45163953.72 0.0088 0.0030

Neptune 118942-11-05 03:34 G 45164041.52 45164041.65 45164041.80 0.0088 0.0023

Jupiter 118943-01-31 05:00 G 45164128.66 45164128.71 45164128.76 0.0540 0.0495

Neptune 118943-02-01 05:15 G 45164129.58 45164129.72 45164129.87 0.0088 0.0016

Neptune 118943-04-30 06:55 G 45164217.65 45164217.79 45164217.94 0.0088 0.0009

Jupiter 118943-04-30 17:29 G 45164218.12 45164218.23 45164218.36 0.0537 0.0244

Neptune 118943-07-27 08:36 G 45164305.72 45164305.86 45164306.00 0.0088 0.0002

Neptune 118943-10-23 10:17 G 45164393.79 45164393.93 45164394.07 0.0088 0.0006

Neptune 118944-01-19 11:58 G 45164481.85 45164482.00 45164482.14 0.0088 0.0013

Neptune 118944-04-16 13:24 G 45164569.92 45164570.06 45164570.20 0.0088 0.0019

Neptune 118944-07-13 15:05 G 45164657.99 45164658.13 45164658.27 0.0088 0.0026

Neptune 118944-10-09 16:31 G 45164746.06 45164746.19 45164746.33 0.0088 0.0033

Saturn 118944-11-10 14:36 G 45164777.97 45164778.11 45164778.25 0.0279 0.0145

Neptune 118945-01-05 18:12 G 45164834.13   45164834.26   45164834.39 0.0088 0.0040

Saturn   118945-02-07 09:05 G 45164866.72   45164866.88   45164867.05 0.0279 0.0040

Neptune 118945-04-03 19:39 G 45164922.21   45164922.32   45164922.45 0.0088 0.0047

Saturn   118945-05-07 04:03 G 45164955.58   45164955.67   45164955.77 0.0279 0.0227

Neptune 118945-06-30 21:05 G 45165010.28   45165010.38   45165010.50 0.0088 0.0054

Neptune 118945-09-26 22:31 G 45165098.35   45165098.44   45165098.56 0.0088 0.0061

Neptune 118945-12-24 00:27 G 45165186.43   45165186.52   45165186.61 0.0088 0.0066

Neptune 118946-03-22 01:53 G 45165274.51   45165274.58   45165274.66 0.0088 0.0073

Mars   118946-04-29 14:36 G 45165313.02   45165313.11   45165313.20 0.1619 0.1313

Neptune 118946-06-18 03:05 G 45165362.59   45165362.63   45165362.71 0.0088 0.0081

Neptune 118946-09-14 05:00 G 45165450.69   45165450.71   45165450.74 0.0088 0.0086

Mars   118947-03-10 23:15 G 45165628.36   45165628.47   45165628.57 0.1920 0.0746

Moon   118948-03-28 18:12 G 45166012.13   45166012.26   45166012.39 0.2660 0.1219

Earth   118948-03-28 19:39 G 45166012.20   45166012.32   45166012.44 0.2663 0.1482 *

Jupiter 118949-06-10 20:51 G 45166451.20   45166451.37   45166451.53 0.0491 0.0078

Venus   118949-08-03 02:36 G 45166504.53   45166504.61   45166504.70 0.3719 0.2368

Earth   118952-09-19 17:58 G 45167648.16   45167648.25   45167648.34 0.2673 0.1581

Moon   118952-09-19 18:41 G 45167648.18   45167648.28   45167648.38 0.2670 0.1463 *

Jupiter 118955-02-16 20:36 G 45168528.22   45168528.36   45168528.49 0.0537 0.0068

Venus   118955-02-16 20:07 G 45168528.24   45168528.34   45168528.45 0.3716 0.0539 *

Saturn   118959-12-10 12:41 G 45170285.92   45170286.03   45170286.15 0.0280 0.0159

Saturn   118960-03-08 01:53 G 45170374.44   45170374.58   45170374.73 0.0280 0.0010

Saturn   118960-06-04 14:51 G 45170463.01   45170463.12   45170463.24 0.0280 0.0154

Venus   118960-09-01 13:39 G 45170551.97   45170552.07   45170552.17 0.3712 0.1281

Jupiter 118961-03-29 21:05 G 45170761.24   45170761.38   45170761.53 0.0490 0.0245

Jupiter 118961-06-27 19:24 G 45170851.25   45170851.31   45170851.38 0.0493 0.0455

Moon   118965-09-22 12:55 G 45172398.92   45172399.04   45172399.16 0.2665 0.0246

Earth   118965-09-22 13:10 G 45172398.93   45172399.05   45172399.17 0.2671 0.0295 *

Venus   118966-03-18 06:41 G 45172575.72   45172575.78   45172575.85 0.3708 0.3014

Jupiter 118966-12-05 23:00 G 45172838.33   45172838.46   45172838.60 0.0538 0.0116

Mars 118967-01-16 09:05 G 45172879.77 45172879.88 45172880.00 0.1629 0.1140

Venus 118967-09-30 07:10 G 45173136.75 45173136.80 45173136.85 0.3656 0.3368

Uranus 118972-07-22 12:27 G 45174893.98 45174894.02 45174894.10 0.0140 0.0131

Uranus 118972-10-18 18:41 G 45174982.18 45174982.28 45174982.40 0.0140 0.0107

Uranus 118973-01-15 00:41 G 45175070.41 45175070.53 45175070.68 0.0140 0.0083

Jupiter 118973-01-15 21:48 G 45175071.33 45175071.41 45175071.51 0.0489 0.0406

Uranus 118973-04-13 06:55 G 45175158.64 45175158.79 45175158.95 0.0140 0.0059

Venus 118973-04-15 09:19 G 45175160.75 45175160.89 45175161.03 0.3660 0.0129

Jupiter 118973-04-15 19:24 G 45175161.18 45175161.31 45175161.45 0.0492 0.0281

Uranus 118973-07-10 13:24 G 45175246.89 45175247.06 45175247.22 0.0140 0.0034

Uranus 118973-10-06 19:24 G 45175335.14 45175335.31 45175335.49 0.0140 0.0010

Uranus 118974-01-03 01:39 G 45175423.40 45175423.57 45175423.75 0.0140 0.0016

Saturn 118974-03-30 14:22 G 45175509.99 45175510.10 45175510.22 0.0279 0.0200

Uranus 118974-04-01 08:07 G 45175511.67 45175511.84 45175512.00 0.0140 0.0040

Saturn 118974-06-27 09:05 G 45175598.71 45175598.88 45175599.05 0.0279 0.0015

Uranus 118974-06-28 14:22 G 45175599.95 45175600.10 45175600.26 0.0140 0.0065

Saturn 118974-09-24 03:48 G 45175687.53 45175687.66 45175687.80 0.0279 0.0173

Uranus 118974-09-24 20:36 G 45175688.23 45175688.36 45175688.50 0.0140 0.0090

Uranus 118974-12-22 03:05 G 45175776.54 45175776.63 45175776.73 0.0139 0.0115

Mars 118976-06-07 11:58 G 45176309.84 45176310.00 45176310.16 0.1624 0.0027

Mars 118977-04-18 15:48 G 45176625.05 45176625.16 45176625.27 0.1913 0.0675

Jupiter 118978-09-24 00:27 G 45177148.41 45177148.52 45177148.64 0.0539 0.0320

Moon 118978-09-25 07:24 G 45177149.73 45177149.81 45177149.88 0.2671 0.2016

Earth 118978-09-25 08:07 G 45177149.77 45177149.84 45177149.91 0.2669 0.2120 *

Venus 118978-10-30 11:58 G 45177184.95 45177185.00 45177185.06 0.3665 0.3335

Jupiter 118978-12-22 12:41 G 45177237.94 45177238.03 45177238.12 0.0536 0.0407

Moon 118981-03-26 22:03 G 45178063.29 45178063.42 45178063.55 0.2666 0.0983

Earth 118981-03-26 23:00 G 45178063.32 45178063.46 45178063.59 0.2661 0.0839 *

Jupiter 118985-02-01 19:39 G 45179471.15 45179471.32 45179471.48 0.0491 0.0107

Mars 118985-10-28 15:19 G 45179740.02 45179740.14 45179740.25 0.1619 0.1136

Mars	**118986-09-08 23:00**	**G**	**45180055.35**	**45180055.46**	**45180055.57**	**0.1920**	**0.0616**	
Saturn	**118989-04-28 15:48**	**G**	**45181018.06**	**45181018.16**	**45181018.27**	**0.0279**	**0.0188**	
Saturn	**118989-07-26 05:15**	**G**	**45181106.57**	**45181106.72**	**45181106.86**	**0.0279**	**0.0032**	
Saturn	**118989-10-22 17:58**	**G**	**45181195.13**	**45181195.25**	**45181195.38**	**0.0280**	**0.0125**	
Saturn	**118990-01-19 06:55**	**G**	**45181283.77**	**45181283.79**	**45181283.81**	**0.0280**	**0.0277**	
Jupiter	**118990-07-13 02:51**	**G**	**45181458.58**	**45181458.62**	**45181458.67**	**0.0540**	**0.0506**	
Jupiter	**118990-10-10 15:34**	**G**	**45181548.03**	**45181548.15**	**45181548.27**	**0.0537**	**0.0235**	
Earth	**118994-03-30 01:39**	**G**	**45182814.48**	**45182814.57**	**45182814.66**	**0.2663**	**0.2060**	
Moon	**118994-03-30 02:22**	**G**	**45182814.52**	**45182814.60**	**45182814.68**	**0.2668**	**0.2171**	*
Mars	**118996-01-30 06:27**	**G**	**45183485.76**	**45183485.77**	**45183485.78**	**0.1926**	**0.1912**	
Jupiter	**118996-11-20 19:10**	**G**	**45183781.14**	**45183781.30**	**45183781.47**	**0.0490**	**0.0073**	
Moon	**118998-09-20 22:17**	**G**	**45184450.33**	**45184450.43**	**45184450.53**	**0.2672**	**0.1355**	
Earth	**118998-09-20 23:00**	**G**	**45184450.36**	**45184450.46**	**45184450.57**	**0.2673**	**0.1181**	*
Venus	**119000-08-25 06:55**	**G**	**45185153.78**	**45185153.79**	**45185153.81**	**0.3722**	**0.3657**	

120TH MILLENNIUM CE

This is a list of transits of Mercury in the 120th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	**119002-07-30 18:55**	**G**	**45185858.15**	**45185858.29**	**45185858.42**	**0.0538**	**0.0067**	
Saturn	**119003-08-18 13:53**	**G**	**45186242.02**	**45186242.08**	**45186242.15**	**0.0280**	**0.0257**	
Saturn	**119003-11-15 08:22**	**G**	**45186330.69**	**45186330.85**	**45186331.02**	**0.0279**	**0.0074**	
Saturn	**119004-02-12 03:05**	**G**	**45186419.48**	**45186419.63**	**45186419.79**	**0.0279**	**0.0112**	
Venus	**119006-03-11 00:41**	**G**	**45187177.44**	**45187177.53**	**45187177.63**	**0.3718**	**0.1757**	

Mars 119006-07-18 09:34 G 45187306.81 45187306.90 45187307.00 0.1629 0.1307

Jupiter 119008-09-09 19:39 G 45188091.18 45188091.32 45188091.47 0.0490 0.0238

Jupiter 119008-12-08 17:43 G 45188181.19 45188181.24 45188181.30 0.0492 0.0459

Moon 119011-09-24 17:58 G 45189201.14 45189201.25 45189201.36 0.2678 0.0680

Earth 119011-09-24 18:12 G 45189201.15 45189201.26 45189201.37 0.2671 0.0684 *

Venus 119011-09-24 18:12 G 45189201.15 45189201.26 45189201.37 0.3715 0.0087 *

Jupiter 119014-05-18 21:34 G 45190168.27 45190168.40 45190168.54 0.0538 0.0113

Uranus 119015-10-26 22:46 G 45190694.41 45190694.45 45190694.52 0.0138 0.0128

Mars 119015-12-08 12:41 G 45190736.87 45190737.03 45190737.19 0.1624 0.0158

Uranus 119016-01-23 03:19 G 45190782.55 45190782.64 45190782.73 0.0138 0.0107

Uranus 119016-04-20 07:24 G 45190870.70 45190870.81 45190870.92 0.0138 0.0087

Uranus 119016-07-17 11:29 G 45190958.85 45190958.98 45190959.10 0.0138 0.0067

Uranus 119016-10-13 15:34 G 45191047.01 45191047.15 45191047.28 0.0138 0.0047

Mars 119016-10-18 15:48 G 45191052.05 45191052.16 45191052.27 0.1913 0.0818

Uranus 119017-01-09 19:24 G 45191135.17 45191135.31 45191135.46 0.0138 0.0028

Uranus 119017-04-07 23:29 G 45191223.34 45191223.48 45191223.63 0.0138 0.0008

Venus 119017-04-09 11:29 G 45191224.89 45191224.98 45191225.08 0.3711 0.1854

Uranus 119017-07-05 03:34 G 45191311.51 45191311.65 45191311.79 0.0138 0.0012

Uranus 119017-10-01 07:24 G 45191399.68 45191399.81 45191399.96 0.0138 0.0032

Uranus 119017-12-28 11:29 G 45191487.85 45191487.98 45191488.11 0.0138 0.0051

Uranus 119018-03-26 15:19 G 45191576.02 45191576.14 45191576.27 0.0138 0.0071

Uranus 119018-06-22 19:10 G 45191664.20 45191664.30 45191664.41 0.0139 0.0090

Saturn 119018-09-16 16:17 G 45191750.12 45191750.18 45191750.25 0.0279 0.0248

Uranus 119018-09-18 23:00 G 45191752.38 45191752.46 45191752.55 0.0139 0.0110

Saturn 119018-12-14 05:29 G 45191838.60 45191838.73 45191838.87 0.0280 0.0091

Uranus 119018-12-16 02:51 G 45191840.58 45191840.62 45191840.68 0.0139 0.0129

Saturn 119019-03-12 18:41 G 45191927.14 45191927.28 45191927.42 0.0280 0.0066

Saturn 119019-06-09 07:24 G 45192015.73 45192015.81 45192015.90 0.0280 0.0220

Jupiter 119020-06-28 20:07 G 45192401.25 45192401.34 45192401.44 0.0490 0.0403

Jupiter 119020-09-26 17:43 G 45192491.11 45192491.24 45192491.38 0.0492 0.0284

Venus 119022-10-24 04:31 G 45193248.67 45193248.69 45193248.72 0.3707 0.3568

Venus 119024-05-07 07:24 G 45193809.71 45193809.81 45193809.92 0.3657 0.2366

Earth 119024-09-26 13:10 G 45193952.01 45193952.05 45193952.08 0.2669 0.2498

Moon 119024-09-26 13:53 G 45193952.06 45193952.08 45193952.10 0.2670 0.2620 *

Neptune 119024-10-29 06:12 G 45193984.72 45193984.76 45193984.85 0.0089 0.0082

Neptune 119025-01-25 09:19 G 45194072.80 45194072.89 45194073.00 0.0089 0.0073

Neptune 119025-04-23 11:58 G 45194160.90 45194161.00 45194161.13 0.0089 0.0065

Mars 119025-04-29 15:48 G 45194167.03 45194167.16 45194167.29 0.1619 0.0969

Neptune 119025-07-20 15:05 G 45194249.00 45194249.13 45194249.27 0.0089 0.0056

Neptune 119025-10-16 17:43 G 45194337.10 45194337.24 45194337.40 0.0089 0.0048

Neptune 119026-01-12 20:36 G 45194425.21 45194425.36 45194425.52 0.0089 0.0039

Jupiter 119026-03-06 23:58 G 45194478.39 45194478.50 45194478.62 0.0539 0.0298

Mars 119026-03-10 23:15 G 45194482.35 45194482.47 45194482.58 0.1920 0.0458

Neptune 119026-04-10 23:15 G 45194513.32 45194513.47 45194513.65 0.0089 0.0032

Jupiter 119026-06-04 11:58 G 45194567.93 45194568.00 45194568.09 0.0536 0.0427

Neptune 119026-07-08 02:22 G 45194601.43 45194601.60 45194601.77 0.0089 0.0022

Neptune 119026-10-04 05:15 G 45194689.55 45194689.72 45194689.90 0.0089 0.0013

Neptune 119026-12-31 08:07 G 45194777.67 45194777.84 45194778.02 0.0089 0.0005

Earth 119027-03-29 04:46 G 45194865.56 45194865.70 45194865.85 0.2661 0.0283

Moon 119027-03-29 06:12 G 45194865.62 45194865.76 45194865.90 0.2661 0.0115 *

Neptune 119027-03-29 11:00 G 45194865.79 45194865.96 45194866.14 0.0089 0.0005 *

Neptune 119027-06-25 13:53 G 45194953.91 45194954.08 45194954.26 0.0089 0.0013

Neptune 119027-09-21 16:46 G 45195042.04 45195042.20 45195042.38 0.0089 0.0022

Neptune 119027-12-18 19:53 G 45195130.16 45195130.33 45195130.50 0.0089 0.0030

Neptune 119028-03-15 22:46 G 45195218.29 45195218.45 45195218.61 0.0089 0.0039

Neptune 119028-06-12 01:39 G 45195306.43 45195306.57 45195306.73 0.0089 0.0048

Neptune 119028-09-08 04:31 G 45195394.57 45195394.69 45195394.84 0.0089 0.0057

Neptune 119028-12-05 07:24 G 45195482.71 45195482.81 45195482.94 0.0089 0.0067

Neptune 119029-03-03 10:31 G 45195570.86 45195570.94 45195571.05 0.0089 0.0075

Neptune 119029-05-30 13:24 G 45195659.02 45195659.06 45195659.13 0.0089 0.0084

Venus 119029-11-21 09:34 G 45195833.77 45195833.90 45195834.04 0.3662 0.0938

Jupiter 119032-07-15 18:12 G 45196801.09 45196801.26 45196801.42 0.0491 0.0114

Saturn 119033-04-03 08:07 G 45197062.69 45197062.84 45197062.99 0.0279 0.0130

Saturn 119033-07-01 02:51 G 45197151.45 45197151.62 45197151.79 0.0279 0.0056

Saturn 119033-09-27 21:48 G 45197240.33 45197240.41 45197240.49 0.0279 0.0244

Mars 119035-08-01 06:27 G 45197912.72 45197912.77 45197912.81 0.1926 0.1778

Jupiter 119037-12-24 01:10 G 45198788.51 45198788.55 45198788.60 0.0539 0.0507

Jupiter 119038-03-23 13:53 G 45198877.96 45198878.08 45198878.21 0.0537 0.0234

Earth 119040-03-31 07:39 G 45199616.81 45199616.82 45199616.83 0.2664 0.2648

Jupiter 119044-05-03 18:12 G 45201111.10 45201111.26 45201111.43 0.0490 0.0059

Earth 119044-09-22 04:03 G 45201252.56 45201252.67 45201252.78 0.2672 0.0790

Moon 119044-09-22 04:46 G 45201252.58 45201252.70 45201252.81 0.2677 0.0739 *

Mars 119046-01-16 10:31 G 45201733.87 45201733.94 45201734.00 0.1629 0.1495

Saturn 119048-02-03 19:39 G 45202482.30 45202482.32 45202482.34 0.0279 0.0275

Saturn 119048-05-02 08:51 G 45202570.75 45202570.87 45202571.01 0.0279 0.0118

Saturn 119048-07-29 22:03 G 45202659.28 45202659.42 45202659.56 0.0280 0.0040

Saturn 119048-10-26 11:00 G 45202747.86 45202747.96 45202748.06 0.0280 0.0193

Jupiter 119050-01-09 16:46 G 45203188.06 45203188.20 45203188.34 0.0538 0.0056

Mars 119055-06-08 13:10 G 45205163.89 45205164.05 45205164.21 0.1624 0.0325

Pluto 119055-06-19 09:34 G 45205174.86 45205174.90 45205174.97 0.0059 0.0056

Pluto 119055-09-15 10:46 G 45205262.86 45205262.95 45205263.09 0.0059 0.0048

Pluto 119055-12-12 12:12 G 45205350.88 45205351.01 45205351.18 0.0059 0.0039

Jupiter 119056-02-20 17:58 G 45205421.11 45205421.25 45205421.40 0.0490 0.0235

Pluto 119056-03-09 13:53 G 45205438.92 45205439.08 45205439.25 0.0059 0.0030

Mars 119056-04-18 15:48 G 45205479.06 45205479.16 45205479.26 0.1913 0.0967

Jupiter 119056-05-20 16:03 G 45205511.12 45205511.17 45205511.23 0.0492 0.0461

Pluto 119056-06-05 15:05 G 45205526.96 45205527.13 45205527.33 0.0059 0.0022

Uranus 119056-08-12 20:07 G 45205595.27 45205595.34 45205595.43 0.0140 0.0123

Pluto 119056-09-01 16:31 G 45205615.01 45205615.19 45205615.39 0.0059 0.0013

Uranus 119056-11-09 02:22 G 45205683.49 45205683.60 45205683.72 0.0140 0.0099

Pluto 119056-11-28 17:58 G 45205703.06 45205703.25 45205703.45 0.0059 0.0005

Uranus 119057-02-05 08:22 G 45205771.72 45205771.85 45205772.00 0.0140 0.0075

Pluto 119057-02-24 19:24 G 45205791.12 45205791.31 45205791.51 0.0059 0.0004

Venus 119057-04-01 05:00 G 45205826.65 45205826.71 45205826.77 0.3721 0.3036

Uranus 119057-05-04 14:36 G 45205859.96 45205860.11 45205860.27 0.0140 0.0051

Pluto 119057-05-23 20:36 G 45205879.18 45205879.36 45205879.56 0.0059 0.0013

Uranus 119057-07-31 20:51 G 45205948.20 45205948.37 45205948.54 0.0140 0.0026

Pluto 119057-08-19 22:03 G 45205967.24 45205967.42 45205967.61 0.0059 0.0022

Earth 119057-09-24 23:15 G 45206003.36 45206003.47 45206003.57 0.2671 0.1070

Moon 119057-09-24 23:43 G 45206003.39 45206003.49 45206003.60 0.2667 0.1227 *

Uranus 119057-10-28 03:05 G 45206036.46 45206036.63 45206036.80 0.0140 0.0002

Pluto 119057-11-15 23:15 G 45206055.32 45206055.47 45206055.65 0.0059 0.0031

Uranus 119058-01-24 09:19 G 45206124.72 45206124.89 45206125.06 0.0140 0.0023

Pluto 119058-02-12 00:27 G 45206143.40 45206143.52 45206143.69 0.0059 0.0040

Uranus 119058-04-22 15:34 G 45206212.99 45206213.15 45206213.32 0.0140 0.0048

Pluto 119058-05-11 01:53 G 45206231.49 45206231.58 45206231.71 0.0060 0.0049

Uranus 119058-07-19 21:48 G 45206301.27 45206301.41 45206301.57 0.0140 0.0073

Pluto 119058-08-07 03:05 G 45206319.61 45206319.63 45206319.71 0.0060 0.0058

Uranus 119058-10-16 04:17 G 45206389.56 45206389.68 45206389.81 0.0140 0.0098

Uranus 119059-01-12 10:31 G 45206477.87 45206477.94 45206478.03 0.0139 0.0123

Earth 119060-03-26 08:36 G 45206916.82 45206916.86 45206916.91 0.2659 0.2499

Moon 119060-03-26 09:19 G 45206916.82 45206916.89 45206916.96 0.2654 0.2300 *

Jupiter 119061-10-28 19:53 G 45207498.19 45207498.33 45207498.46 0.0538 0.0118

Saturn 119062-08-21 08:07 G 45207794.72 45207794.84 45207794.98 0.0279 0.0182

Venus 119062-10-15 22:46 G 45207850.34 45207850.45 45207850.55 0.3717 0.1158

Saturn 119062-11-18 02:51 G 45207883.45 45207883.62 45207883.79 0.0279 0.0003

Saturn 119063-02-14 21:34 G 45207972.28 45207972.40 45207972.53 0.0279 0.0190

Mars 119064-10-28 16:17 G 45208594.04 45208594.18 45208594.32 0.1619 0.0808

Mars 119065-09-08 23:15 G 45208909.36 45208909.47 45208909.59 0.1919 0.0309

Jupiter 119067-12-09 18:41 G 45209731.18 45209731.28 45209731.37 0.0489 0.0398

Jupiter 119068-03-08 16:03 G 45209821.03 45209821.17 45209821.31 0.0492 0.0286

Venus 119068-04-30 16:17 G 45209874.07 45209874.18 45209874.28 0.3714 0.0677

Moon 119073-03-29 09:48 G 45211667.77 45211667.91 45211668.06 0.2657 0.0106

Earth 119073-03-29 11:00 G 45211667.82 45211667.96 45211668.10 0.2662 0.0323 *

Jupiter 119073-08-16 22:31 G 45211808.33 45211808.44 45211808.56 0.0539 0.0297

Venus 119073-11-14 09:19 G 45211897.81 45211897.89 45211897.97 0.3710 0.2418

Jupiter 119073-11-14 10:31 G 45211897.87 45211897.94 45211898.02 0.0536 0.0429 *

Mars 119075-01-30 06:27 G 45212339.71 45212339.77 45212339.83 0.1925 0.1623

Saturn 119077-09-19 09:34 G 45213302.79 45213302.90 45213303.01 0.0279 0.0176

Earth 119077-09-20 13:53 G 45213304.02 45213304.08 45213304.14 0.2674 0.2284

Moon 119077-09-20 14:36 G 45213304.04 45213304.11 45213304.18 0.2672 0.2077 *

Saturn 119077-12-16 22:46 G 45213391.30 45213391.45 45213391.59 0.0280 0.0019

Saturn 119078-03-15 11:43 G 45213479.87 45213479.99 45213480.11 0.0280 0.0136

Jupiter 119079-12-26 16:17 G 45214131.01 45214131.18 45214131.34 0.0491 0.0114

Venus 119080-12-12 07:39 G 45214482.69 45214482.82 45214482.95 0.3659 0.1364

Jupiter 119085-06-05 00:41 G 45216118.48 45216118.53 45216118.59 0.0539 0.0486

Jupiter 119085-09-02 13:24 G 45216207.94 45216208.06 45216208.18 0.0537 0.0252

Venus 119086-06-28 10:03 G 45216506.81 45216506.92 45216507.04 0.3663 0.2008

Earth 119090-09-23 09:05 G 45218054.76 45218054.88 45218055.00 0.2672 0.0385

Moon 119090-09-23 09:05 G 45218054.77 45218054.88 45218055.00 0.2666 0.0443 *

Jupiter 119091-10-14 16:46 G 45218441.03 45218441.20 45218441.37 0.0490 0.0053

Saturn 119092-01-08 08:07 G 45218526.75 45218526.84 45218526.92 0.0279 0.0237

Saturn 119092-04-06 02:22 G 45218615.44 45218615.60 45218615.77 0.0279 0.0054

Saturn 119092-07-03 21:05 G 45218704.24 45218704.38 45218704.53 0.0279 0.0133

Mars 119094-12-07 13:39 G 45219590.92 45219591.07 45219591.23 0.1624 0.0501

Mars 119095-10-18 15:48 G 45219906.07 45219906.16 45219906.26 0.1913 0.1112

Jupiter 119097-06-21 15:05 G 45220517.99 45220518.13 45220518.27 0.0537 0.0053

Uranus 119099-11-16 06:41 G 45221395.71 45221395.78 45221395.85 0.0138 0.0120

Uranus 119100-02-12 10:46 G 45221483.86 45221483.95 45221484.06 0.0138 0.0100

Uranus 119100-05-11 14:51 G 45221572.01 45221572.12 45221572.25 0.0138 0.0080

Uranus 119100-08-07 18:55 G 45221660.17 45221660.29 45221660.43 0.0138 0.0060

Uranus 119100-11-03 23:00 G 45221748.33 45221748.46 45221748.60 0.0138 0.0041

Uranus 119101-01-31 03:05 G 45221836.49 45221836.63 45221836.78 0.0138 0.0021

Uranus 119101-04-29 07:10 G 45221924.66 45221924.80 45221924.95 0.0138 0.0002

Uranus 119101-07-26 11:15 G 45222012.83 45222012.97 45222013.11 0.0138 0.0019

Uranus 119101-10-22 15:05 G 45222101.00 45222101.13 45222101.27 0.0138 0.0039

Uranus 119102-01-18 18:55 G 45222189.17 45222189.29 45222189.43 0.0138 0.0059

Uranus 119102-04-16 23:00 G 45222277.34 45222277.46 45222277.58 0.0138 0.0078

Uranus 119102-07-14 02:51 G 45222365.52 45222365.62 45222365.72 0.0139 0.0097

Uranus 119102-10-10 06:27 G 45222453.71 45222453.77 45222453.86 0.0139 0.0117

Uranus 119103-01-06 10:31 G 45222541.92 45222541.94 45222541.97 0.0139 0.0135

Jupiter 119103-08-03 17:00 G 45222751.06 45222751.21 45222751.36 0.0490 0.0222

Moon 119103-09-27 03:19 G 45222805.54 45222805.64 45222805.74 0.2669 0.1392

Earth 119103-09-27 04:03 G 45222805.58 45222805.67 45222805.77 0.2670 0.1459 *

Jupiter 119103-11-01 15:05 G 45222841.09 45222841.13 45222841.17 0.0492 0.0474

Mars 119104-04-29 17:00 G 45223021.06 45223021.21 45223021.35 0.1620 0.0629

Mars 119105-03-10 23:15 G 45223336.35 45223336.47 45223336.59 0.1919 0.0169

Neptune 119105-06-02 11:29 G 45223419.94 45223419.98 45223420.03 0.0088 0.0084

Neptune 119105-08-29 13:10 G 45223507.99 45223508.05 45223508.13 0.0088 0.0077

Neptune 119105-11-25 14:51 G 45223596.04 45223596.12 45223596.22 0.0088 0.0070

Neptune 119106-02-21 16:31 G 45223684.10 45223684.19 45223684.30 0.0088 0.0062

Moon 119106-03-28 13:10 G 45223718.96 45223719.05 45223719.14 0.2662 0.2048

Earth 119106-03-28 14:36 G 45223719.01 45223719.11 45223719.20 0.2660 0.1943 *

Neptune 119106-05-20 18:12 G 45223772.16 45223772.26 45223772.38 0.0088 0.0055

Neptune 119106-08-16 19:53 G 45223860.22 45223860.33 45223860.46 0.0088 0.0048

Neptune 119106-11-12 21:34 G 45223948.28 45223948.40 45223948.54 0.0088 0.0041

Saturn 119107-02-07 12:55 G 45224034.94 45224035.04 45224035.14 0.0279 0.0202

Neptune 119107-02-08 23:15 G 45224036.35 45224036.47 45224036.61 0.0088 0.0034

Saturn 119107-05-07 02:07 G 45224123.45 45224123.59 45224123.74 0.0280 0.0045

Neptune 119107-05-08 00:55 G 45224124.41 45224124.54 45224124.68 0.0088 0.0027

Saturn 119107-08-03 15:19 G 45224212.01 45224212.14 45224212.27 0.0280 0.0112

Neptune 119107-08-04 02:36 G 45224212.48 45224212.61 45224212.76 0.0088 0.0020

Neptune 119107-10-31 04:17 G 45224300.54 45224300.68 45224300.83 0.0088 0.0013

Saturn 119107-10-31 04:03 G 45224300.63 45224300.67 45224300.72 0.0280 0.0265 *

Neptune 119108-01-27 05:58 G 45224388.61 45224388.75 45224388.90 0.0088 0.0006

Neptune 119108-04-24 07:39 G 45224476.68 45224476.82 45224476.96 0.0088 0.0001

Neptune 119108-07-21 09:19 G 45224564.75 45224564.89 45224565.03 0.0088 0.0008

Neptune 119108-10-17 11:00 G 45224652.81 45224652.96 45224653.10 0.0088 0.0015

Neptune 119109-01-13 12:27 G 45224740.88 45224741.02 45224741.16 0.0088 0.0021

Jupiter 119109-04-10 17:29 G 45224828.10 45224828.23 45224828.37 0.0538 0.0131

Neptune 119109-04-11 13:53 G 45224828.95 45224829.08 45224829.22 0.0088 0.0029

Neptune 119109-07-08 15:34 G 45224917.02 45224917.15 45224917.28 0.0088 0.0035

Neptune 119109-10-04 17:15 G 45225005.10 45225005.22 45225005.35 0.0088 0.0042

Neptune 119109-12-31 18:41 G 45225093.17 45225093.28 45225093.40 0.0088 0.0049

Neptune 119110-03-29 20:07 G 45225181.24 45225181.34 45225181.46 0.0088 0.0056

Neptune 119110-06-25 21:48 G 45225269.32 45225269.41 45225269.52 0.0088 0.0062

Neptune 119110-09-21 23:29 G 45225357.40 45225357.48 45225357.57 0.0088 0.0069

Neptune 119110-12-19 00:55 G 45225445.48 45225445.54 45225445.62 0.0088 0.0075

Neptune 119111-03-17 02:22 G 45225533.56 45225533.60 45225533.66 0.0088 0.0082

Venus 119113-11-07 03:05 G 45226499.55 45226499.63 45226499.71 0.3720 0.2420

Mars 119114-08-01 06:41 G 45226766.70 45226766.78 45226766.85 0.1925 0.1465

Jupiter 119115-05-22 16:46 G 45227061.11 45227061.20 45227061.30 0.0489 0.0397

Jupiter 119115-08-20 14:07 G 45227150.96 45227151.09 45227151.23 0.0491 0.0286

Earth 119119-03-31 17:00 G 45228470.07 45228470.21 45228470.34 0.2662 0.0899

Moon 119119-03-31 17:00 G 45228470.08 45228470.21 45228470.35 0.2668 0.0833 *

Venus 119119-05-23 20:36 G 45228523.26 45228523.36 45228523.47 0.3716 0.0578

Jupiter 119121-01-27 20:22 G 45229138.24 45229138.35 45229138.47 0.0539 0.0308

Jupiter 119121-04-27 08:36 G 45229227.78 45229227.86 45229227.94 0.0536 0.0421

Saturn 119121-08-25 03:05 G 45229347.48 45229347.63 45229347.79 0.0279 0.0099

Saturn 119121-11-21 21:48 G 45229436.25 45229436.41 45229436.57 0.0279 0.0086

Saturn 119122-02-18 16:46 G 45229525.17 45229525.20 45229525.23 0.0279 0.0274

Moon 119123-09-22 18:12 G 45230106.18 45230106.26 45230106.34 0.2669 0.1935

Earth 119123-09-22 18:55 G 45230106.21 45230106.29 45230106.37 0.2674 0.1882 *

Venus 119124-12-06 14:07 G 45230546.99 45230547.09 45230547.19 0.3713 0.1241

Jupiter 119127-06-08 14:22 G 45231460.93 45231461.10 45231461.26 0.0491 0.0114

Venus 119130-06-22 07:10 G 45232570.74 45232570.80 45232570.87 0.3709 0.2971

Venus 119132-01-04 05:58 G 45233131.72 45233131.75 45233131.78 0.3655 0.3540

Jupiter 119132-11-15 23:00 G 45233448.41 45233448.46 45233448.52 0.0539 0.0489

Jupiter 119133-02-13 11:43 G 45233537.87 45233537.99 45233538.11 0.0537 0.0250

Mars 119134-06-08 14:22 G 45234017.95 45234018.10 45234018.25 0.1625 0.0675

Mars 119135-04-19 16:03 G 45234333.08 45234333.17 45234333.25 0.1913 0.1254

Saturn 119136-06-26 13:39 G 45234767.02 45234767.07 45234767.13 0.0279 0.0258

Saturn 119136-09-23 03:05 G 45234855.50 45234855.63 45234855.76 0.0280 0.0099

Moon 119136-09-24 13:39 G 45234856.95 45234857.07 45234857.18 0.2677 0.0166

Earth 119136-09-24 14:07 G 45234856.97 45234857.09 45234857.21 0.2672 0.0020 *

Saturn 119136-12-20 16:03 G 45234944.04 45234944.17 45234944.31 0.0280 0.0058

Saturn 119137-03-19 05:00 G 45235032.62 45235032.71 45235032.80 0.0280 0.0211

Venus 119137-07-20 07:53 G 45235155.70 45235155.83 45235155.97 0.3660 0.0352

Jupiter 119139-03-27 14:36 G 45235770.94 45235771.11 45235771.27 0.0491 0.0058

Uranus 119140-09-03 03:19 G 45236296.56 45236296.64 45236296.74 0.0140 0.0117

Uranus 119140-11-30 09:19 G 45236384.78 45236384.89 45236385.03 0.0140 0.0093

Uranus 119141-02-26 15:34 G 45236473.01 45236473.15 45236473.30 0.0140 0.0069

Uranus 119141-05-25 21:34 G 45236561.25 45236561.40 45236561.57 0.0140 0.0045

Uranus 119141-08-22 04:03 G 45236649.50 45236649.67 45236649.84 0.0140 0.0020

Uranus 119141-11-18 10:17 G 45236737.75 45236737.93 45236738.10 0.0140 0.0005

Uranus 119142-02-14 16:31 G 45236826.02 45236826.19 45236826.36 0.0140 0.0029

Uranus 119142-05-13 22:46 G 45236914.29 45236914.45 45236914.61 0.0140 0.0054

Uranus 119142-08-10 05:00 G 45237002.57 45237002.71 45237002.86 0.0140 0.0079

Uranus 119142-11-06 11:15 G 45237090.86 45237090.97 45237091.09 0.0140 0.0104

Uranus 119143-02-02 17:43 G 45237179.18 45237179.24 45237179.31 0.0140 0.0129

Venus 119143-02-03 10:31 G 45237179.87 45237179.94 45237180.02 0.3664 0.3085

Mars 119143-10-29 17:29 G 45237448.08 45237448.23 45237448.38 0.1620 0.0459

Mars 119144-09-08 23:29 G 45237763.36 45237763.48 45237763.59 0.1919 0.0059

Jupiter 119144-12-02 14:22 G 45237847.96 45237848.10 45237848.23 0.0537 0.0070

Earth 119149-09-27 09:05 G 45239607.80 45239607.88 45239607.96 0.2670 0.1845

Moon 119149-09-27 09:34 G 45239607.83 45239607.90 45239607.98 0.2675 0.1984 *

Saturn 119151-01-12 02:51 G 45240079.48 45240079.62 45240079.76 0.0279 0.0156

Jupiter 119151-01-13 15:05 G 45240080.99 45240081.13 45240081.28 0.0490 0.0221

Saturn 119151-04-10 21:19 G 45240168.22 45240168.39 45240168.56 0.0279 0.0028

Jupiter 119151-04-13 13:10 G 45240171.02 45240171.05 45240171.09 0.0492 0.0477

Saturn 119151-07-08 16:03 G 45240257.07 45240257.17 45240257.28 0.0279 0.0215

Earth 119152-03-28 20:36 G 45240521.23 45240521.36 45240521.48 0.2660 0.1386

Moon 119152-03-28 21:34 G 45240521.27 45240521.40 45240521.53 0.2663 0.1162 *

Pluto 119152-08-26 07:10 G 45240671.75 45240671.80 45240671.87 0.0085 0.0074

Pluto 119152-11-22 08:22 G 45240759.76 45240759.85 45240759.96 0.0085 0.0057

Pluto 119153-02-18 09:48 G 45240847.80 45240847.91 45240848.03 0.0085 0.0039

Mars 119153-03-20 21:05 G 45240878.34 45240878.38 45240878.42 0.1615 0.1557

Pluto 119153-05-17 11:00 G 45240935.84 45240935.96 45240936.09 0.0085 0.0022

Pluto 119153-08-13 12:12 G 45241023.88 45241024.01 45241024.15 0.0085 0.0006

Pluto 119153-11-09 13:24 G 45241111.94 45241112.06 45241112.20 0.0085 0.0013

Mars 119154-01-30 06:41 G 45241193.69 45241193.78 45241193.86 0.1925 0.1324

Pluto 119154-02-05 14:36 G 45241199.99 45241200.11 45241200.24 0.0085 0.0030

Pluto 119154-05-04 15:48 G 45241288.06 45241288.16 45241288.28 0.0084 0.0047

Pluto 119154-07-31 17:00 G 45241376.13 45241376.21 45241376.30 0.0084 0.0063

Pluto 119154-10-27 17:58 G 45241464.23 45241464.25 45241464.30 0.0084 0.0081

Jupiter 119156-09-20 15:48 G 45242158.03 45242158.16 45242158.30 0.0538 0.0133

Jupiter 119162-11-01 15:34 G 45244391.05 45244391.15 45244391.25 0.0489 0.0387

Jupiter 119163-01-30 12:55 G 45244480.91 45244481.04 45244481.18 0.0492 0.0298

Venus 119164-11-28 07:24 G 45245148.81 45245148.81 45245148.81 0.3723 0.3716

Earth 119165-03-31 23:00 G 45245272.34 45245272.46 45245272.58 0.2662 0.1473

Moon 119165-03-31 23:58 G 45245272.39 45245272.50 45245272.62 0.2658 0.1587 *

Saturn 119166-02-10 06:27 G 45245587.65 45245587.77 45245587.90 0.0280 0.0125

Saturn 119166-05-09 19:39 G 45245676.18 45245676.32 45245676.46 0.0280 0.0032

Saturn 119166-08-06 08:36 G 45245764.76 45245764.86 45245764.97 0.0280 0.0187

Jupiter 119168-07-09 18:12 G 45246468.15 45246468.26 45246468.37 0.0539 0.0321

Jupiter 119168-10-07 06:12 G 45246557.68 45246557.76 45246557.85 0.0536 0.0409

Earth 119169-09-22 23:58 G 45246908.40 45246908.50 45246908.60 0.2674 0.1483

Moon 119169-09-22 23:58 G 45246908.41 45246908.50 45246908.60 0.2680 0.1451 *

Venus 119170-06-14 01:10 G 45247172.45 45247172.55 45247172.64 0.3719 0.1821

Mars 119173-12-07 14:51 G 45248444.98 45248445.12 45248445.26 0.1624 0.0845

Mars 119174-10-18 16:03 G 45248760.09 45248760.17 45248760.25 0.1913 0.1404

Jupiter 119174-11-18 12:12 G 45248790.85 45248791.01 45248791.18 0.0491 0.0112

Venus 119175-12-28 18:41 G 45249196.17 45249196.28 45249196.39 0.3716 0.0039

Jupiter 119180-04-27 20:51 G 45250778.32 45250778.37 45250778.42 0.0540 0.0503

Saturn 119180-05-31 04:17 G 45250811.56 45250811.68 45250811.80 0.0279 0.0194

Jupiter 119180-07-26 09:34 G 45250867.78 45250867.90 45250868.02 0.0537 0.0239

Saturn 119180-08-27 22:46 G 45250900.28 45250900.45 45250900.62 0.0279 0.0011

Saturn 119180-11-24 17:29 G 45250989.10 45250989.23 45250989.36 0.0279 0.0176

Venus 119181-07-13 11:58 G 45251219.91 45251220.00 45251220.09 0.3712 0.1797

Earth 119182-09-25 19:10 G 45251659.18 45251659.30 45251659.41 0.2671 0.0398

Moon 119182-09-25 19:53 G 45251659.22 45251659.33 45251659.44 0.2672 0.0514 *

Mars 119183-04-29 17:58 G 45251875.09 45251875.25 45251875.41 0.1620 0.0294

Uranus 119183-09-10 10:17 G 45252008.89 45252008.93 45252008.96 0.0138 0.0133

Uranus 119183-12-07 14:22 G 45252097.02 45252097.10 45252097.18 0.0138 0.0113

Uranus 119184-03-04 18:27 G 45252185.17 45252185.27 45252185.38 0.0138 0.0093

Mars 119184-03-09 23:29 G 45252190.37 45252190.48 45252190.60 0.1919 0.0150

Uranus 119184-05-31 22:31 G 45252273.32 45252273.44 45252273.57 0.0138 0.0073

Uranus 119184-08-28 02:36 G 45252361.48 45252361.61 45252361.75 0.0138 0.0053

Uranus 119184-11-24 06:41 G 45252449.64 45252449.78 45252449.92 0.0138 0.0033

Uranus 119185-02-20 10:46 G 45252537.81 45252537.95 45252538.09 0.0138 0.0014

Uranus 119185-05-19 14:51 G 45252625.97 45252626.12 45252626.26 0.0138 0.0007

Uranus 119185-08-15 18:41 G 45252714.14 45252714.28 45252714.42 0.0138 0.0026

Uranus 119185-11-11 22:31 G 45252802.31 45252802.44 45252802.58 0.0138 0.0046

Uranus 119186-02-08 02:36 G 45252890.49 45252890.61 45252890.74 0.0138 0.0065

Uranus 119186-05-07 06:27 G 45252978.66 45252978.77 45252978.89 0.0138 0.0084

Uranus 119186-08-03 10:17 G 45253066.85 45253066.93 45253067.03 0.0139 0.0104

Jupiter 119186-09-06 12:27 G 45253100.86 45253101.02 45253101.19 0.0490 0.0060

Uranus 119186-10-30 14:07 G 45253155.04 45253155.09 45253155.16 0.0139 0.0123

Venus 119187-01-27 05:00 G 45253243.68 45253243.71 45253243.75 0.3708 0.3523

Venus 119188-08-10 06:12 G 45253804.66 45253804.76 45253804.86 0.3656 0.2555

Neptune 119189-04-30 02:22 G 45254067.57 45254067.60 45254067.65 0.0089 0.0086

Neptune 119189-07-27 05:00 G 45254155.64 45254155.71 45254155.81 0.0089 0.0078

Neptune 119189-10-23 08:07 G 45254243.73 45254243.84 45254243.95 0.0089 0.0069

Neptune 119190-01-19 10:46 G 45254331.83 45254331.95 45254332.08 0.0089 0.0061

Neptune 119190-04-17 13:24 G 45254419.93 45254420.06 45254420.21 0.0089 0.0053

Neptune 119190-07-14 16:17 G 45254508.04 45254508.18 45254508.34 0.0089 0.0044

Neptune 119190-10-10 19:24 G 45254596.15 45254596.31 45254596.47 0.0089 0.0036

Neptune 119191-01-06 22:03 G 45254684.26 45254684.42 45254684.59 0.0089 0.0027

Neptune 119191-04-05 00:55 G 45254772.37 45254772.54 45254772.72 0.0089 0.0018

Neptune 119191-07-02 03:48 G 45254860.49 45254860.66 45254860.84 0.0089 0.0010

Neptune 119191-09-28 06:41 G 45254948.61 45254948.78 45254948.96 0.0089 0.0002

Neptune 119191-12-25 09:34 G 45255036.73 45255036.90 45255037.08 0.0089 0.0008

Neptune 119192-03-22 12:27 G 45255124.85 45255125.02 45255125.20 0.0089 0.0017

Jupiter 119192-05-14 12:27 G 45255177.89 45255178.02 45255178.16 0.0538 0.0067

Neptune 119192-06-18 15:19 G 45255212.98 45255213.14 45255213.32 0.0089 0.0025

Neptune 119192-09-14 18:12 G 45255301.10 45255301.26 45255301.43 0.0089 0.0034

Mars 119192-09-18 21:34 G 45255305.32 45255305.40 45255305.48 0.1616 0.1391

Neptune 119192-12-11 21:05 G 45255389.24 45255389.38 45255389.55 0.0089 0.0043

Neptune 119193-03-09 23:58 G 45255477.37 45255477.50 45255477.66 0.0089 0.0052

Neptune 119193-06-06 02:51 G 45255565.51 45255565.62 45255565.77 0.0089 0.0061

Mars 119193-07-31 06:41 G 45255620.69 45255620.78 45255620.87 0.1925 0.1179

Neptune 119193-09-02 06:12 G 45255653.65 45255653.76 45255653.87 0.0089 0.0070

Neptune 119193-11-29 09:05 G 45255741.80 45255741.88 45255741.97 0.0089 0.0079

Venus 119194-02-24 08:22 G 45255828.71 45255828.85 45255828.98 0.3661 0.0709

Neptune 119194-02-25 12:12 G 45255829.98 45255830.01 45255830.04 0.0089 0.0088

Saturn 119195-06-30 07:24 G 45256319.70 45256319.81 45256319.92 0.0279 0.0179

Saturn 119195-09-26 20:36 G 45256408.22 45256408.36 45256408.51 0.0280 0.0022

Earth 119195-09-28 14:07 G 45256410.03 45256410.09 45256410.15 0.2670 0.2226

Moon 119195-09-28 14:22 G 45256410.04 45256410.10 45256410.16 0.2663 0.2275 *

Saturn 119195-12-24 09:34 G 45256496.78 45256496.90 45256497.03 0.0280 0.0134

Moon 119198-03-30 02:07 G 45257323.46 45257323.59 45257323.73 0.2653 0.0860

Earth 119198-03-30 02:22 G 45257323.47 45257323.60 45257323.74 0.2660 0.0822 *

Jupiter 119198-06-25 12:55 G 45257410.89 45257411.04 45257411.19 0.0490 0.0227

Jupiter 119198-09-23 10:46 G 45257500.91 45257500.95 45257501.00 0.0492 0.0469

Jupiter 119204-03-02 15:05 G 45259488.00 45259488.13 45259488.26 0.0538 0.0118

Saturn 119209-10-18 03:48 G 45261543.60 45261543.66 45261543.74 0.0279 0.0252

Saturn 119210-01-14 22:17 G 45261632.27 45261632.43 45261632.59 0.0279 0.0070

Jupiter 119210-04-13 13:39 G 45261720.97 45261721.07 45261721.17 0.0489 0.0388

Saturn 119210-04-13 16:46 G 45261721.05 45261721.20 45261721.36 0.0279 0.0116 *

Jupiter 119210-07-12 11:00 G 45261810.83 45261810.96 45261811.10 0.0492 0.0297

Moon 119211-04-02 03:34 G 45262074.55 45262074.65 45262074.75 0.2663 0.1830

Earth 119211-04-02 05:00 G 45262074.62 45262074.71 45262074.80 0.2663 0.2058 *

Mars 119213-06-07 15:34 G 45262872.03 45262872.15 45262872.28 0.1625 0.1027

Mars 119214-04-18 16:03 G 45263187.11 45263187.17 45263187.24 0.1912 0.1549

Earth 119215-09-24 05:00 G 45263710.60 45263710.71 45263710.81 0.2673 0.1088

Moon 119215-09-24 05:29 G 45263710.62 45263710.73 45263710.84 0.2669 0.1030 *

Jupiter 119215-12-20 16:31 G 45263798.08 45263798.19 45263798.30 0.0539 0.0324

Jupiter 119216-03-19 04:46 G 45263887.61 45263887.70 45263887.79 0.0536 0.0405

Venus 119221-07-05 05:29 G 45265821.67 45265821.73 45265821.78 0.3722 0.3112

Jupiter 119222-04-30 11:00 G 45266120.80 45266120.96 45266121.12 0.0491 0.0122

Mars 119222-10-28 18:41 G 45266302.12 45266302.28 45266302.44 0.1620 0.0116

Mars 119223-09-08 23:29 G 45266617.36 45266617.48 45266617.60 0.1919 0.0273

Uranus 119224-06-27 04:46 G 45266909.66 45266909.70 45266909.76 0.0140 0.0134

Uranus 119224-09-23 11:00 G 45266997.86 45266997.96 45266998.07 0.0140 0.0109

Saturn 119224-11-16 10:46 G 45267051.86 45267051.95 45267052.05 0.0280 0.0205

Uranus 119224-12-20 17:00 G 45267086.08 45267086.21 45267086.35 0.0140 0.0086

Saturn 119225-02-13 00:12 G 45267140.37 45267140.51 45267140.65 0.0280 0.0047

Uranus 119225-03-18 23:15 G 45267174.32 45267174.47 45267174.62 0.0140 0.0061

Saturn 119225-05-12 13:10 G 45267228.92 45267229.05 45267229.18 0.0280 0.0109

Uranus 119225-06-15 05:15 G 45267262.56 45267262.72 45267262.89 0.0140 0.0037

Saturn 119225-08-09 02:07 G 45267317.55 45267317.59 45267317.64 0.0280 0.0263

Uranus 119225-09-11 11:29 G 45267350.81 45267350.98 45267351.15 0.0140 0.0013

Uranus 119225-12-08 17:43 G 45267439.07 45267439.24 45267439.41 0.0140 0.0012

Uranus 119226-03-06 23:58 G 45267527.33 45267527.50 45267527.67 0.0140 0.0037

Uranus 119226-06-03 06:12 G 45267615.61 45267615.76 45267615.92 0.0140 0.0062

Uranus 119226-08-30 12:27 G 45267703.89 45267704.02 45267704.16 0.0140 0.0087

Uranus 119226-11-26 18:41 G 45267792.19 45267792.28 45267792.40 0.0140 0.0112

Venus 119227-01-18 23:00 G 45267845.36 45267845.46 45267845.57 0.3718 0.1222

Uranus 119227-02-23 01:10 G 45267880.52 45267880.55 45267880.59 0.0140 0.0136

Jupiter 119227-10-08 18:27 G 45268108.24 45268108.27 45268108.31 0.0540 0.0517

Jupiter 119228-01-06 07:10 G 45268197.68 45268197.80 45268197.93 0.0537 0.0226

Moon 119228-09-25 23:43 G 45268461.37 45268461.49 45268461.60 0.2666 0.0738

Earth 119228-09-26 00:12 G 45268461.40 45268461.51 45268461.62 0.2671 0.0788 *

Mars 119232-03-19 21:48 G 45269732.31 45269732.41 45269732.52 0.1616 0.1233

Venus 119232-08-03 16:31 G 45269869.08 45269869.19 45269869.30 0.3714 0.0607

Mars 119233-01-29 06:55 G 45270047.69 45270047.79 45270047.89 0.1925 0.1011

Jupiter 119234-02-16 10:31 G 45270430.77 45270430.94 45270431.10 0.0490 0.0063

Venus 119238-02-17 09:48 G 45271892.83 45271892.91 45271892.99 0.3711 0.2364

Saturn 119239-06-04 00:12 G 45272364.36 45272364.51 45272364.67 0.0279 0.0102

Saturn 119239-08-31 18:41 G 45272453.12 45272453.28 45272453.45 0.0279 0.0083

Jupiter 119239-10-25 10:17 G 45272507.79 45272507.93 45272508.07 0.0538 0.0051

Saturn 119239-11-28 13:24 G 45272542.03 45272542.06 45272542.11 0.0279 0.0270

Moon 119241-09-28 18:27 G 45273212.23 45273212.27 45273212.31 0.2673 0.2485

Earth 119241-09-28 19:10 G 45273212.28 45273212.30 45273212.32 0.2669 0.2609 *

Moon 119244-03-30 07:39 G 45274125.68 45274125.82 45274125.96 0.2666 0.0420

Earth 119244-03-30 08:22 G 45274125.71 45274125.85 45274126.00 0.2661 0.0253 *

Venus 119245-03-17 06:27 G 45274477.65 45274477.77 45274477.90 0.3657 0.1548

Jupiter 119245-12-05 10:46 G 45274740.80 45274740.95 45274741.10 0.0490 0.0230

Jupiter 119246-03-05 08:36 G 45274830.81 45274830.86 45274830.92 0.0492 0.0464

Moon 119248-09-21 14:36 G 45275762.07 45275762.11 45275762.14 0.2668 0.2540

Earth 119248-09-21 14:36 G 45275762.09 45275762.11 45275762.14 0.2675 0.2596 *

Venus 119250-10-01 08:51 G 45276501.75 45276501.87 45276501.99 0.3662 0.1784

Jupiter 119251-08-13 13:10 G 45276817.91 45276818.05 45276818.18 0.0538 0.0126

Mars 119252-12-06 16:03 G 45277299.07 45277299.17 45277299.28 0.1625 0.1202

Mars 119253-10-17 16:03 G 45277614.12 45277614.17 45277614.22 0.1912 0.1689

Saturn 119254-04-05 11:58 G 45277783.95 45277784.00 45277784.05 0.0279 0.0257

Saturn 119254-07-03 01:24 G 45277872.42 45277872.56 45277872.69 0.0280 0.0099

Saturn 119254-09-29 14:22 G 45277960.97 45277961.10 45277961.24 0.0280 0.0058

Saturn 119254-12-27 03:19 G 45278049.55 45278049.64 45278049.74 0.0280 0.0212

Earth 119257-04-02 10:46 G 45278876.94 45278876.95 45278876.97 0.2663 0.2637

Jupiter 119257-09-23 11:15 G 45279050.88 45279050.97 45279051.07 0.0489 0.0396

Jupiter 119257-12-22 08:22 G 45279140.72 45279140.85 45279140.99 0.0492 0.0288

Moon 119261-09-24 09:05 G 45280512.77 45280512.88 45280512.99 0.2674 0.0898

Earth 119261-09-24 10:03 G 45280512.81 45280512.92 45280513.03 0.2673 0.0679 *

Mars 119262-04-28 19:10 G 45280729.14 45280729.30 45280729.46 0.1620 0.0058

Mars 119263-03-09 23:43 G 45281044.37 45281044.49 45281044.60 0.1918 0.0437

Jupiter 119263-06-01 15:34 G 45281128.04 45281128.15 45281128.26 0.0539 0.0311

Jupiter 119263-08-30 03:48 G 45281217.57 45281217.66 45281217.74 0.0536 0.0417

Uranus 119267-09-30 17:29 G 45282710.19 45282710.23 45282710.30 0.0138 0.0127

Uranus 119267-12-27 22:03 G 45282798.33 45282798.42 45282798.51 0.0138 0.0106

Uranus 119268-03-25 02:07 G 45282886.48 45282886.59 45282886.70 0.0138 0.0086

Uranus 119268-06-21 06:12 G 45282974.63 45282974.76 45282974.89 0.0138 0.0066

Uranus 119268-09-17 10:17 G 45283062.79 45283062.93 45283063.07 0.0138 0.0046

Saturn 119268-10-20 23:29 G 45283096.35 45283096.48 45283096.62 0.0279 0.0162

Uranus 119268-12-14 14:22 G 45283150.96 45283151.10 45283151.24 0.0138 0.0027

Saturn 119269-01-17 17:58 G 45283185.08 45283185.25 45283185.42 0.0279 0.0022

Uranus 119269-03-12 18:27 G 45283239.12 45283239.27 45283239.41 0.0138 0.0008

Saturn 119269-04-16 12:41 G 45283273.92 45283274.03 45283274.15 0.0279 0.0208

Uranus 119269-06-08 22:17 G 45283327.29 45283327.43 45283327.58 0.0138 0.0013

Uranus 119269-09-05 02:22 G 45283415.46 45283415.60 45283415.74 0.0138 0.0032

Jupiter 119269-10-10 08:51 G 45283450.71 45283450.87 45283451.04 0.0491 0.0119

Neptune 119269-12-01 09:05 G 45283502.88 45283502.88 45283502.88 0.0088 0.0088

Uranus 119269-12-02 06:12 G 45283503.63 45283503.76 45283503.90 0.0138 0.0052

Neptune 119270-02-27 10:31 G 45283590.90 45283590.94 45283591.00 0.0088 0.0081

Uranus 119270-02-28 10:03 G 45283591.81 45283591.92 45283592.05 0.0138 0.0072

Neptune 119270-05-26 12:12 G 45283678.94 45283679.01 45283679.10 0.0088 0.0074

Uranus 119270-05-27 14:07 G 45283679.98 45283680.09 45283680.20 0.0138 0.0091

Neptune 119270-08-22 13:53 G 45283767.00 45283767.08 45283767.18 0.0088 0.0067

Uranus 119270-08-23 17:58 G 45283768.17 45283768.25 45283768.34 0.0139 0.0110

Neptune 119270-11-18 15:34 G 45283855.06 45283855.15 45283855.27 0.0088 0.0060

Uranus 119270-11-19 21:34 G 45283856.37 45283856.40 45283856.46 0.0139 0.0130

Neptune 119271-02-14 17:15 G 45283943.12 45283943.22 45283943.35 0.0088 0.0053

Neptune 119271-05-13 19:10 G 45284031.18 45284031.30 45284031.43 0.0088 0.0046

Neptune 119271-08-09 20:51 G 45284119.24 45284119.37 45284119.50 0.0088 0.0039

Mars 119271-09-18 22:31 G 45284159.33 45284159.44 45284159.56 0.1616 0.1056

Neptune 119271-11-05 22:31 G 45284207.31 45284207.44 45284207.58 0.0088 0.0032

Neptune 119272-02-01 23:58 G 45284295.37 45284295.50 45284295.65 0.0088 0.0026

Neptune 119272-04-30 01:39 G 45284383.44 45284383.57 45284383.72 0.0088 0.0019

Neptune 119272-07-27 03:19 G 45284471.50 45284471.64 45284471.79 0.0088 0.0012

Mars 119272-07-30 06:55 G 45284474.68 45284474.79 45284474.89 0.1924 0.0882

Neptune 119272-10-23 05:00 G 45284559.57   45284559.71   45284559.86 0.0088 0.0005

Neptune 119273-01-19 06:41 G 45284647.64   45284647.78   45284647.93 0.0088 0.0004

Neptune 119273-04-17 08:22 G 45284735.71   45284735.85   45284735.99 0.0088 0.0010

Neptune 119273-07-14 10:03 G 45284823.78   45284823.92   45284824.06 0.0088 0.0017

Neptune 119273-10-10 11:29 G 45284911.85   45284911.98   45284912.12 0.0088 0.0024

Neptune 119274-01-06 13:10 G 45284999.92   45285000.05   45285000.18 0.0088 0.0030

Neptune 119274-04-04 14:36 G 45285087.99   45285088.11   45285088.25 0.0088 0.0037

Neptune 119274-07-01 16:03 G 45285176.06   45285176.17   45285176.31 0.0088 0.0045

Moon   119274-09-27 05:00 G 45285263.61   45285263.71   45285263.81 0.2677 0.1224

Earth   119274-09-27 05:00 G 45285263.61   45285263.71   45285263.82 0.2671 0.1177 *

Neptune 119274-09-27 17:58 G 45285264.13   45285264.25   45285264.36 0.0088 0.0051

Neptune 119274-12-24 19:24 G 45285352.21   45285352.31   45285352.42 0.0088 0.0057

Jupiter 119275-03-20 16:46 G 45285438.17   45285438.20   45285438.24 0.0539 0.0518

Neptune 119275-03-22 20:51 G 45285440.28   45285440.37   45285440.48 0.0088 0.0064

Jupiter 119275-06-18 05:29 G 45285527.61   45285527.73   45285527.86 0.0537 0.0224

Neptune 119275-06-18 22:17 G 45285528.36   45285528.43   45285528.53 0.0088 0.0071

Neptune 119275-09-14 23:58 G 45285616.45   45285616.50   45285616.58 0.0088 0.0078

Neptune 119275-12-12 01:24 G 45285704.54   45285704.56   45285704.61 0.0088 0.0084

Earth   119277-03-28 12:12 G 45286176.96   45286177.01   45286177.06 0.2659 0.2480

Moon   119277-03-28 12:41 G 45286176.96   45286177.03   45286177.09 0.2665 0.2336 *

Venus   119278-02-09 03:19 G 45286494.56   45286494.64   45286494.72 0.3721 0.2496

Jupiter 119281-07-29 09:05 G 45287760.71   45287760.88   45287761.04 0.0490 0.0054

Venus   119283-08-25 21:05 G 45288518.27   45288518.38   45288518.49 0.3717 0.0623

Saturn   119283-11-20 04:31 G 45288604.56   45288604.69   45288604.82 0.0280 0.0127

Saturn   119284-02-16 17:43 G 45288693.10   45288693.24   45288693.38 0.0280 0.0031

Saturn   119284-05-15 06:41 G 45288781.68   45288781.78   45288781.89 0.0280 0.0186

Jupiter 119287-04-06 08:07 G 45289837.70   45289837.84   45289837.97 0.0538 0.0042

Venus   119289-03-10 14:36 G 45290542.00   45290542.11   45290542.21 0.3713 0.1189

Earth   119290-03-31 14:22 G 45290927.96   45290928.10   45290928.24 0.2661 0.0317

Moon   119290-03-31 15:48 G 45290928.02   45290928.16   45290928.30 0.2661 0.0434 *

Mars 119292-06-06 16:31 G 45291726.11 45291726.19 45291726.28 0.1625 0.1372

Mars 119293-04-17 16:17 G 45292041.15 45292041.18 45292041.20 0.1912 0.1843

Jupiter 119293-05-17 08:36 G 45292070.72 45292070.86 45292071.01 0.0489 0.0235

Jupiter 119293-08-15 06:12 G 45292160.71 45292160.76 45292160.83 0.0492 0.0459

Moon 119294-09-22 19:10 G 45292564.24 45292564.30 45292564.37 0.2681 0.2204

Earth 119294-09-22 19:39 G 45292564.26 45292564.32 45292564.39 0.2675 0.2193 *

Venus 119294-09-24 07:39 G 45292565.76 45292565.82 45292565.89 0.3710 0.2930

Saturn 119298-03-10 02:07 G 45293828.47 45293828.59 45293828.71 0.0279 0.0190

Saturn 119298-06-06 20:22 G 45293917.19 45293917.35 45293917.52 0.0279 0.0010

Saturn 119298-09-03 15:05 G 45294006.00 45294006.13 45294006.26 0.0279 0.0179

Jupiter 119299-01-23 10:46 G 45294147.82 45294147.95 45294148.08 0.0539 0.0142

Venus 119301-10-23 06:41 G 45295150.65 45295150.78 45295150.92 0.3659 0.0530

Mars 119301-10-28 19:39 G 45295156.17 45295156.32 45295156.48 0.1621 0.0227

Pluto 119302-07-30 17:58 G 45295431.24 45295431.25 45295431.32 0.0059 0.0058

Mars 119302-09-08 23:43 G 45295471.38 45295471.49 45295471.60 0.1918 0.0581

Pluto 119302-10-26 19:39 G 45295519.23 45295519.32 45295519.44 0.0059 0.0049

Pluto 119303-01-22 20:51 G 45295607.25 45295607.37 45295607.53 0.0059 0.0041

Pluto 119303-04-20 22:17 G 45295695.28 45295695.43 45295695.61 0.0059 0.0032

Pluto 119303-07-17 23:58 G 45295783.32 45295783.50 45295783.68 0.0059 0.0023

Pluto 119303-10-14 01:10 G 45295871.37 45295871.55 45295871.75 0.0059 0.0015

Pluto 119304-01-10 02:36 G 45295959.42 45295959.61 45295959.81 0.0059 0.0006

Pluto 119304-04-07 04:03 G 45296047.47 45296047.67 45296047.87 0.0059 0.0003

Pluto 119304-07-04 05:15 G 45296135.54 45296135.72 45296135.92 0.0059 0.0012

Pluto 119304-09-30 06:27 G 45296223.60 45296223.77 45296223.97 0.0059 0.0021

Pluto 119304-12-27 08:07 G 45296311.67 45296311.84 45296312.02 0.0059 0.0029

Jupiter 119305-03-06 09:05 G 45296380.79 45296380.88 45296380.98 0.0489 0.0399

Pluto 119305-03-25 09:19 G 45296399.75 45296399.89 45296400.06 0.0059 0.0038

Jupiter 119305-06-04 06:12 G 45296470.63 45296470.76 45296470.90 0.0491 0.0283

Pluto 119305-06-21 10:31 G 45296487.84 45296487.94 45296488.08 0.0059 0.0047

Pluto 119305-09-17 11:43 G 45296575.95 45296575.99 45296576.09 0.0060 0.0056

Venus 119307-05-09 09:19 G 45297174.80 45297174.89 45297174.97 0.3663 0.2871

Earth 119307-09-26 15:05 G 45297315.01 45297315.13 45297315.24 0.2673 0.0297

Moon 119307-09-26 15:34 G 45297315.04 45297315.15 45297315.27 0.2677 0.0262 *

Uranus 119308-07-18 11:58 G 45297610.94 45297611.00 45297611.08 0.0140 0.0128

Uranus 119308-10-14 18:12 G 45297699.15 45297699.26 45297699.38 0.0140 0.0103

Uranus 119309-01-11 00:12 G 45297787.37 45297787.51 45297787.65 0.0140 0.0079

Uranus 119309-04-09 06:12 G 45297875.61 45297875.76 45297875.92 0.0140 0.0055

Uranus 119309-07-06 12:27 G 45297963.85 45297964.02 45297964.19 0.0140 0.0031

Uranus 119309-10-02 18:41 G 45298052.11 45298052.28 45298052.45 0.0140 0.0007

Uranus 119309-12-30 00:55 G 45298140.37 45298140.54 45298140.71 0.0140 0.0018

Uranus 119310-03-28 06:55 G 45298228.63 45298228.79 45298228.96 0.0140 0.0043

Uranus 119310-06-24 13:10 G 45298316.91 45298317.05 45298317.21 0.0140 0.0068

Uranus 119310-09-20 19:24 G 45298405.19 45298405.31 45298405.45 0.0140 0.0093

Jupiter 119310-11-12 13:24 G 45298457.95 45298458.06 45298458.17 0.0539 0.0321

Uranus 119310-12-18 01:39 G 45298493.49 45298493.57 45298493.68 0.0140 0.0118

Jupiter 119311-02-10 01:53 G 45298547.49 45298547.58 45298547.66 0.0536 0.0410

Mars 119311-03-20 23:15 G 45298586.34 45298586.47 45298586.60 0.1616 0.0885

Mars 119312-01-30 06:55 G 45298901.68 45298901.79 45298901.90 0.1924 0.0723

Saturn 119313-04-09 05:43 G 45299336.63 45299336.74 45299336.86 0.0279 0.0177

Saturn 119313-07-06 19:10 G 45299425.15 45299425.30 45299425.44 0.0280 0.0020

Saturn 119313-10-03 08:07 G 45299513.72 45299513.84 45299513.97 0.0280 0.0136

Jupiter 119317-03-23 06:27 G 45300780.60 45300780.77 45300780.93 0.0491 0.0108

Earth 119320-09-28 10:03 G 45302065.83 45302065.92 45302066.02 0.2671 0.1564

Moon 119320-09-28 10:46 G 45302065.87 45302065.95 45302066.04 0.2667 0.1746 *

Jupiter 119322-08-31 15:48 G 45302768.12 45302768.16 45302768.20 0.0540 0.0508

Jupiter 119322-11-29 04:31 G 45302857.57 45302857.69 45302857.82 0.0537 0.0235

Earth 119323-03-30 18:12 G 45302979.16 45302979.26 45302979.35 0.2659 0.1922

Moon 119323-03-30 18:41 G 45302979.18 45302979.28 45302979.39 0.2653 0.1732 *

Saturn 119327-07-29 01:10 G 45304560.49 45304560.55 45304560.63 0.0279 0.0251

Saturn 119327-10-25 19:24 G 45304649.15 45304649.31 45304649.48 0.0279 0.0070

Saturn 119328-01-22 14:07 G 45304737.94 45304738.09 45304738.25 0.0279 0.0115

Jupiter 119329-01-09 06:55 G 45305090.62 45305090.79 45305090.96 0.0490 0.0058

Mars 119331-12-07 17:15 G 45306153.18 45306153.22 45306153.27 0.1625 0.1553

Venus 119334-09-17 01:24 G 45307167.47 45307167.56 45307167.66 0.3720 0.1881

Jupiter 119334-09-17 06:27 G 45307167.63 45307167.77 45307167.91 0.0537 0.0038 *

Moon 119336-04-01 19:10 G 45307730.16 45307730.30 45307730.44 0.2658 0.0627

Earth 119336-04-01 20:22 G 45307730.21 45307730.35 45307730.48 0.2661 0.0892 *

Venus 119340-04-01 19:10 G 45309191.19 45309191.30 45309191.40 0.3716 0.0161

Earth 119340-09-24 00:41 G 45309366.45 45309366.53 45309366.62 0.2675 0.1791

Moon 119340-09-24 01:39 G 45309366.47 45309366.57 45309366.66 0.2674 0.1626 *

Jupiter 119340-10-28 07:10 G 45309400.66 45309400.80 45309400.95 0.0490 0.0227

Jupiter 119341-01-26 05:00 G 45309490.66 45309490.71 45309490.76 0.0492 0.0468

Mars 119341-04-28 20:22 G 45309583.20 45309583.35 45309583.51 0.1621 0.0403

Mars 119342-03-09 23:43 G 45309898.38 45309898.49 45309898.60 0.1918 0.0721

Saturn 119342-08-27 08:36 G 45310068.77 45310068.86 45310068.96 0.0280 0.0209

Saturn 119342-11-23 22:03 G 45310157.28 45310157.42 45310157.56 0.0280 0.0050

Saturn 119343-02-20 11:15 G 45310245.84 45310245.97 45310246.10 0.0280 0.0106

Saturn 119343-05-20 00:12 G 45310334.46 45310334.51 45310334.56 0.0281 0.0260

Venus 119345-10-16 12:27 G 45311214.92 45311215.02 45311215.11 0.3712 0.1756

Jupiter 119346-07-06 08:36 G 45311477.73 45311477.86 45311478.00 0.0538 0.0152

Mars 119350-09-18 23:43 G 45313013.34 45313013.49 45313013.63 0.1616 0.0727

Venus 119351-05-02 05:43 G 45313238.70 45313238.74 45313238.77 0.3709 0.3487

Mars 119351-07-31 07:10 G 45313328.68 45313328.80 45313328.91 0.1924 0.0567

Uranus 119351-10-22 01:10 G 45313411.49 45313411.55 45313411.63 0.0138 0.0120

Uranus 119352-01-18 05:29 G 45313499.63 45313499.73 45313499.83 0.0138 0.0100

Uranus 119352-04-15 09:34 G 45313587.78 45313587.90 45313588.02 0.0138 0.0080

Uranus 119352-07-12 13:39 G 45313675.94 45313676.07 45313676.20 0.0138 0.0060

Jupiter 119352-08-16 06:55 G 45313710.70 45313710.79 45313710.89 0.0489 0.0403

Uranus 119352-10-08 17:43 G 45313764.10 45313764.24 45313764.38 0.0138 0.0040

Venus 119352-11-13 05:15 G 45313799.63 45313799.72 45313799.81 0.3656 0.2711

Jupiter 119352-11-14 04:03 G 45313800.54 45313800.67 45313800.81 0.0491 0.0278

Uranus 119353-01-04 21:48 G 45313852.27 45313852.41 45313852.55 0.0138 0.0020

Uranus 119353-04-03 01:53 G 45313940.43 45313940.58 45313940.72 0.0138 0.0002

Uranus 119353-06-30 05:43 G 45314028.60 45314028.74 45314028.89 0.0138 0.0020

Uranus 119353-09-26 09:48 G 45314116.77 45314116.91 45314117.05 0.0138 0.0039

Moon 119353-09-26 20:07 G 45314117.22 45314117.34 45314117.46 0.2665 0.0084

Earth 119353-09-26 20:07 G 45314117.22 45314117.34 45314117.45 0.2672 0.0141 *

Uranus 119353-12-23 13:39 G 45314204.95 45314205.07 45314205.21 0.0138 0.0058

Neptune 119354-01-26 00:41 G 45314238.49 45314238.53 45314238.61 0.0089 0.0083

Uranus 119354-03-21 17:43 G 45314293.12 45314293.24 45314293.36 0.0138 0.0078

Neptune 119354-04-24 03:48 G 45314326.57 45314326.66 45314326.76 0.0089 0.0074

Uranus 119354-06-17 21:34 G 45314381.30 45314381.40 45314381.50 0.0138 0.0097

Neptune 119354-07-21 06:27 G 45314414.66 45314414.77 45314414.89 0.0089 0.0066

Uranus 119354-09-14 01:10 G 45314469.49 45314469.55 45314469.64 0.0139 0.0117

Neptune 119354-10-17 09:05 G 45314502.76 45314502.88 45314503.03 0.0089 0.0058

Uranus 119354-12-11 05:15 G 45314557.70 45314557.72 45314557.75 0.0139 0.0135

Neptune 119355-01-13 11:58 G 45314590.87 45314591.00 45314591.16 0.0089 0.0049

Neptune 119355-04-11 15:05 G 45314678.98 45314679.13 45314679.29 0.0089 0.0040

Neptune 119355-07-08 17:43 G 45314767.08 45314767.24 45314767.41 0.0089 0.0032

Neptune 119355-10-04 20:36 G 45314855.20 45314855.36 45314855.54 0.0089 0.0023

Neptune 119355-12-31 23:29 G 45314943.31 45314943.48 45314943.66 0.0089 0.0015

Neptune 119356-03-29 02:22 G 45315031.43 45315031.60 45315031.78 0.0089 0.0006

Neptune 119356-06-25 05:15 G 45315119.55 45315119.72 45315119.90 0.0089 0.0003

Neptune 119356-09-21 08:07 G 45315207.67 45315207.84 45315208.02 0.0089 0.0012

Saturn 119356-12-15 04:03 G 45315292.65 45315292.67 45315292.69 0.0280 0.0277

Neptune 119356-12-18 11:00 G 45315295.79 45315295.96 45315296.14 0.0089 0.0020

Saturn 119357-03-13 22:17 G 45315381.27 45315381.43 45315381.59 0.0279 0.0096

Neptune 119357-03-16 13:53 G 45315383.92 45315384.08 45315384.25 0.0089 0.0029

Saturn 119357-06-10 16:46 G 45315470.04 45315470.20 45315470.36 0.0279 0.0088

Neptune 119357-06-12 16:46 G 45315472.05 45315472.20 45315472.37 0.0089 0.0038

Saturn 119357-09-07 11:29 G 45315558.96 45315558.98 45315559.01 0.0279 0.0275

Neptune 119357-09-08 19:39 G 45315560.18 45315560.32 45315560.48 0.0089 0.0047

Neptune 119357-12-05 22:46 G 45315648.31 45315648.45 45315648.59 0.0089 0.0056

Neptune 119358-03-04 01:39 G 45315736.45 45315736.57 45315736.70 0.0089 0.0064

Jupiter 119358-04-24 11:00 G 45315787.86 45315787.96 45315788.07 0.0539 0.0337

Venus 119358-05-30 07:10 G 45315823.66 45315823.80 45315823.94 0.3660 0.0523

Neptune 119358-05-31 04:31 G 45315824.60 45315824.69 45315824.80 0.0089 0.0073

Jupiter 119358-07-22 23:29 G 45315877.39 45315877.48 45315877.57 0.0537 0.0397

Neptune 119358-08-27 07:24 G 45315912.76 45315912.81 45315912.89 0.0089 0.0083

Mars 119360-12-20 14:07 G 45316759.08 45316759.09 45316759.10 0.1930 0.1907

Jupiter 119364-09-02 04:17 G 45318110.51 45318110.68 45318110.84 0.0491 0.0104

Moon 119366-09-29 14:22 G 45318868.02 45318868.10 45318868.18 0.2670 0.1867

Earth 119366-09-29 15:05 G 45318868.05 45318868.13 45318868.21 0.2670 0.1948 *

Moon 119369-03-30 22:46 G 45319781.34 45319781.45 45319781.57 0.2662 0.1506

Earth 119369-03-31 00:12 G 45319781.38 45319781.51 45319781.63 0.2659 0.1359 *

Jupiter 119370-02-10 13:39 G 45320098.04 45320098.07 45320098.11 0.0540 0.0519

Jupiter 119370-05-11 02:36 G 45320187.49 45320187.61 45320187.74 0.0537 0.0226

Saturn 119372-01-14 10:03 G 45320800.87 45320800.92 45320800.98 0.0279 0.0256

Saturn 119372-04-11 23:29 G 45320889.35 45320889.48 45320889.62 0.0279 0.0098

Saturn 119372-07-09 12:41 G 45320977.89 45320978.03 45320978.17 0.0280 0.0058

Saturn 119372-10-06 01:39 G 45321066.48 45321066.57 45321066.66 0.0280 0.0213

Jupiter 119376-06-21 04:31 G 45322420.52 45322420.69 45322420.85 0.0490 0.0068

Mars 119380-10-27 21:05 G 45324010.23 45324010.38 45324010.53 0.1621 0.0575

Mars 119381-09-07 23:43 G 45324325.39 45324325.49 45324325.60 0.1918 0.0876

Jupiter 119382-02-27 05:29 G 45324497.59 45324497.73 45324497.86 0.0538 0.0049

Moon 119382-04-03 02:07 G 45324532.47 45324532.59 45324532.71 0.2668 0.1432

Earth 119382-04-03 02:22 G 45324532.48 45324532.60 45324532.72 0.2662 0.1470 *

Venus 119385-10-08 05:43 G 45325816.69 45325816.74 45325816.80 0.3722 0.3167

Saturn 119386-07-31 21:05 G 45326113.24 45326113.38 45326113.52 0.0279 0.0160

Moon 119386-09-25 05:15 G 45326168.62 45326168.72 45326168.81 0.2670 0.1508

Earth 119386-09-25 05:43 G 45326168.64 45326168.74 45326168.84 0.2674 0.1386 *

Saturn 119386-10-28 15:34 G 45326201.98 45326202.15 45326202.32 0.0279 0.0023

Saturn 119387-01-25 10:03 G 45326290.82 45326290.92 45326291.04 0.0279 0.0209

Jupiter 119388-04-09 05:00 G 45326730.57 45326730.71 45326730.86 0.0490 0.0231

Jupiter 119388-07-08 02:51 G 45326820.57 45326820.62 45326820.68 0.0492 0.0464

Mars 119390-03-20 00:12 G 45327440.36 45327440.51 45327440.66 0.1616 0.0550

Mars 119391-01-29 07:10 G 45327755.68 45327755.80 45327755.91 0.1924 0.0432

Venus 119391-04-23 23:29 G 45327840.38 45327840.48 45327840.58 0.3719 0.1271

Uranus 119392-08-07 19:24 G 45328312.24 45328312.31 45328312.41 0.0140 0.0121

Uranus 119392-11-04 01:39 G 45328400.45 45328400.57 45328400.69 0.0140 0.0096

Uranus 119393-01-31 07:39 G 45328488.68 45328488.82 45328488.97 0.0140 0.0072

Uranus 119393-04-29 13:39 G 45328576.92 45328577.07 45328577.24 0.0140 0.0048

Uranus 119393-07-26 19:53 G 45328665.16 45328665.33 45328665.50 0.0140 0.0024

Uranus 119393-10-23 02:07 G 45328753.41 45328753.59 45328753.76 0.0140 0.0002

Jupiter 119393-12-16 07:10 G 45328807.67 45328807.80 45328807.93 0.0538 0.0149

Uranus 119394-01-19 08:07 G 45328841.67 45328841.84 45328842.02 0.0140 0.0025

Uranus 119394-04-17 14:22 G 45328929.94 45328930.10 45328930.27 0.0140 0.0050

Uranus 119394-07-14 20:36 G 45329018.22 45329018.36 45329018.51 0.0140 0.0075

Uranus 119394-10-11 02:51 G 45329106.51 45329106.62 45329106.75 0.0140 0.0100

Uranus 119395-01-07 09:05 G 45329194.82 45329194.88 45329194.97 0.0140 0.0125

Venus 119396-11-06 17:00 G 45329864.10 45329864.21 45329864.32 0.3715 0.0560

Moon 119399-09-28 00:27 G 45330919.41 45330919.52 45330919.64 0.2677 0.0408

Earth 119399-09-28 00:55 G 45330919.43 45330919.54 45330919.66 0.2672 0.0509 *

Pluto 119399-10-06 17:43 G 45330928.21 45330928.24 45330928.29 0.0085 0.0081

Pluto 119400-01-02 18:55 G 45331016.22 45331016.29 45331016.39 0.0085 0.0063

Jupiter 119400-01-27 05:43 G 45331040.64 45331040.74 45331040.83 0.0489 0.0396

Pluto 119400-03-31 20:22 G 45331104.25 45331104.35 45331104.47 0.0085 0.0045

Jupiter 119400-04-27 02:51 G 45331130.48 45331130.62 45331130.75 0.0491 0.0287

Mars 119400-06-21 14:07 G 45331186.04 45331186.09 45331186.14 0.1930 0.1761

Pluto 119400-06-27 21:34 G 45331192.28 45331192.40 45331192.53 0.0085 0.0028

Pluto 119400-09-23 23:00 G 45331280.33 45331280.46 45331280.59 0.0085 0.0011

Pluto 119400-12-21 00:12 G 45331368.38 45331368.51 45331368.64 0.0085 0.0006

Pluto 119401-03-19 01:24 G 45331456.43 45331456.56 45331456.69 0.0085 0.0024

Pluto 119401-06-15 02:36 G 45331544.50 45331544.61 45331544.73 0.0085 0.0040

Saturn 119401-08-31 02:07 G 45331621.46 45331621.59 45331621.71 0.0280 0.0134

Pluto 119401-09-11 03:34 G 45331632.57 45331632.65 45331632.76 0.0084 0.0058

Saturn 119401-11-27 15:19 G 45331710.00 45331710.14 45331710.28 0.0280 0.0023

Pluto 119401-12-08 04:46 G 45331720.65 45331720.70 45331720.77 0.0084 0.0075

Saturn 119402-02-24 04:17 G 45331798.58 45331798.68 45331798.79 0.0281 0.0179

Venus 119402-05-24 10:17 G 45331887.85 45331887.93 45331888.02 0.3712 0.2328

Jupiter 119405-10-05 09:19 G 45333117.78 45333117.89 45333117.99 0.0539 0.0342

Jupiter 119406-01-02 21:34 G 45333207.31 45333207.40 45333207.50 0.0536 0.0391

Venus 119409-06-21 05:15 G 45334472.60 45334472.72 45334472.84 0.3657 0.1720

Jupiter 119412-02-14 02:07 G 45335440.43 45335440.59 45335440.76 0.0490 0.0101

Earth 119412-09-30 20:07 G 45335670.29 45335670.34 45335670.39 0.2670 0.2332

Moon 119412-09-30 20:22 G 45335670.31 45335670.35 45335670.40 0.2676 0.2398 *

Venus 119415-01-05 07:24 G 45336496.68 45336496.81 45336496.94 0.3661 0.1559

Earth 119415-04-02 05:58 G 45336583.62 45336583.75 45336583.89 0.2660 0.0795

Moon 119415-04-02 07:10 G 45336583.66 45336583.80 45336583.93 0.2664 0.0667 *

Saturn 119415-12-19 23:43 G 45336845.37 45336845.49 45336845.62 0.0280 0.0186

Saturn 119416-03-17 18:12 G 45336934.09 45336934.26 45336934.43 0.0279 0.0004

Saturn 119416-06-14 12:41 G 45337022.91 45337023.03 45337023.16 0.0279 0.0182

Jupiter 119417-07-24 11:15 G 45337427.96 45337427.97 45337427.99 0.0540 0.0534

Jupiter 119417-10-22 00:27 G 45337517.39 45337517.52 45337517.65 0.0538 0.0213

Mars 119420-04-28 21:34 G 45338437.25 45338437.40 45338437.54 0.1621 0.0742

Mars 119421-03-09 23:58 G 45338752.40 45338752.50 45338752.60 0.1917 0.1026

Jupiter 119423-12-03 02:22 G 45339750.44 45339750.60 45339750.77 0.0490 0.0070

Earth 119428-04-04 08:22 G 45341334.76 45341334.85 45341334.94 0.2662 0.2051

Moon 119428-04-04 09:19 G 45341334.81 45341334.89 45341334.96 0.2657 0.2216 *

Jupiter 119429-08-10 03:19 G 45341827.51 45341827.64 45341827.78 0.0538 0.0044

Mars 119429-09-19 00:55 G 45341867.38 45341867.54 45341867.69 0.1617 0.0380

Mars 119430-07-31 07:10 G 45342182.68 45342182.80 45342182.92 0.1924 0.0282

Saturn 119431-01-18 03:34 G 45342353.54 45342353.65 45342353.76 0.0279 0.0180

Saturn 119431-04-16 17:00 G 45342442.06 45342442.21 45342442.35 0.0279 0.0023

Saturn 119431-07-14 05:58 G 45342530.63 45342530.75 45342530.88 0.0280 0.0133

Moon 119432-09-26 11:00 G 45342970.85 45342970.96 45342971.07 0.2680 0.1016

Earth 119432-09-26 10:46 G 45342970.85 45342970.95 45342971.06 0.2674 0.0985 *

Neptune 119434-08-30 08:07 G 45343673.81 45343673.84 45343673.88 0.0088 0.0085

Neptune 119434-11-26 09:48 G 45343761.85 45343761.91 45343761.98 0.0088 0.0078

Neptune 119435-02-22 11:29 G 45343849.91 45343849.98 45343850.07 0.0088 0.0071

Neptune 119435-05-21 13:10 G 45343937.96 45343938.05 45343938.16 0.0088 0.0064

Uranus 119435-08-16 04:31 G 45344024.66 45344024.69 45344024.72 0.0138 0.0134

Neptune 119435-08-17 14:51 G 45344026.02 45344026.12 45344026.24 0.0088 0.0057

Jupiter 119435-09-21 02:51 G 45344060.47 45344060.62 45344060.76 0.0490 0.0237

Uranus 119435-11-12 08:36 G 45344112.79 45344112.86 45344112.95 0.0138 0.0114

Neptune 119435-11-13 16:31 G 45344114.08 45344114.19 45344114.32 0.0088 0.0050

Jupiter 119435-12-20 00:27 G 45344150.46 45344150.52 45344150.58 0.0492 0.0455

Uranus 119436-02-08 12:41 G 45344200.93 45344201.03 45344201.15 0.0138 0.0094

Neptune 119436-02-09 18:12 G 45344202.15 45344202.26 45344202.40 0.0088 0.0044

Uranus 119436-05-06 17:00 G 45344289.09 45344289.21 45344289.34 0.0138 0.0074

Neptune 119436-05-07 19:53 G 45344290.21 45344290.33 45344290.47 0.0088 0.0037

Uranus 119436-08-02 21:05 G 45344377.25 45344377.38 45344377.52 0.0138 0.0054

Neptune 119436-08-03 21:34 G 45344378.27 45344378.40 45344378.55 0.0088 0.0030

Uranus 119436-10-30 01:10 G 45344465.41 45344465.55 45344465.69 0.0138 0.0034

Neptune 119436-10-30 23:15 G 45344466.34 45344466.47 45344466.62 0.0088 0.0023

Uranus 119437-01-26 05:15 G 45344553.58 45344553.72 45344553.87 0.0138 0.0014

Neptune 119437-01-27 01:10 G 45344554.41 45344554.55 45344554.69 0.0088 0.0015

Uranus 119437-04-24 09:19 G 45344641.75 45344641.89 45344642.03 0.0138 0.0006

Neptune 119437-04-25 02:51 G 45344642.47 45344642.62 45344642.76 0.0088 0.0008

Uranus 119437-07-21 13:24 G 45344729.92 45344730.06 45344730.20 0.0138 0.0026

Neptune 119437-07-22 04:17 G 45344730.54   45344730.68   45344730.83 0.0088 0.0004

Uranus   119437-10-17 17:15 G 45344818.09   45344818.22   45344818.36 0.0138 0.0045

Neptune 119437-10-18 05:58 G 45344818.61   45344818.75   45344818.90 0.0088 0.0006

Uranus   119438-01-13 21:05 G 45344906.26   45344906.38   45344906.51 0.0138 0.0065

Neptune 119438-01-14 07:39 G 45344906.68   45344906.82   45344906.96 0.0088 0.0013

Uranus   119438-04-12 01:10 G 45344994.44   45344994.55   45344994.66 0.0138 0.0084

Neptune 119438-04-12 09:19 G 45344994.75   45344994.89   45344995.03 0.0088 0.0020

Uranus   119438-07-09 05:00 G 45345082.62   45345082.71   45345082.81 0.0138 0.0103

Neptune 119438-07-09 10:46 G 45345082.82   45345082.95   45345083.09 0.0088 0.0026

Uranus   119438-10-05 08:51 G 45345170.81   45345170.87   45345170.94 0.0139 0.0123

Neptune 119438-10-05 12:27 G 45345170.89   45345171.02   45345171.15 0.0088 0.0033 *

Neptune 119439-01-01 13:53 G 45345258.96   45345259.08   45345259.21 0.0088 0.0040

Mars   119439-02-09 04:31 G 45345297.62   45345297.69   45345297.75 0.1612 0.1474

Neptune 119439-03-30 15:34 G 45345347.03   45345347.15   45345347.27 0.0088 0.0047

Neptune 119439-06-26 17:15 G 45345435.11   45345435.22   45345435.33 0.0088 0.0053

Neptune 119439-09-22 18:41 G 45345523.18   45345523.28   45345523.39 0.0088 0.0060

Neptune 119439-12-19 20:07 G 45345611.26   45345611.34   45345611.44 0.0088 0.0067

Mars   119439-12-21 14:22 G 45345613.03   45345613.10   45345613.16 0.1929 0.1599

Neptune 119440-03-16 21:48 G 45345699.34   45345699.41   45345699.49 0.0088 0.0074

Neptune 119440-06-12 23:15 G 45345787.43   45345787.47   45345787.54 0.0088 0.0080

Neptune 119440-09-09 00:41 G 45345875.53   45345875.53   45345875.57 0.0088 0.0087

Jupiter 119441-05-29 06:12 G 45346137.62   45346137.76   45346137.89 0.0539 0.0140

Venus   119442-05-16 03:48 G 45346489.58   45346489.66   45346489.74 0.3722 0.2548

Saturn   119445-05-07 22:17 G 45347577.37   45347577.43   45347577.50 0.0280 0.0254

Saturn   119445-08-04 16:31 G 45347666.03   45347666.19   45347666.35 0.0279 0.0072

Earth   119445-09-29 05:58 G 45347721.64   45347721.75   45347721.86 0.2672 0.0895

Moon   119445-09-29 06:55 G 45347721.68   45347721.79   45347721.89 0.2673 0.1084 *

Saturn   119445-11-01 11:00 G 45347754.81   45347754.96   45347755.12 0.0279 0.0112

Jupiter 119447-07-10 03:34 G 45348370.56   45348370.65   45348370.75 0.0489 0.0397

Jupiter 119447-10-08 00:41 G 45348460.40   45348460.53   45348460.67 0.0491 0.0284

Venus 119447-11-29 21:34 G 45348513.29 45348513.40 45348513.50 0.3718 0.0679

Jupiter 119453-03-17 07:53 G 45350447.73 45350447.83 45350447.94 0.0539 0.0337

Venus 119453-06-14 14:51 G 45350537.02 45350537.12 45350537.23 0.3714 0.1140

Jupiter 119453-06-14 20:22 G 45350537.26 45350537.35 45350537.44 0.0536 0.0394

Venus 119458-12-29 08:07 G 45352560.78 45352560.84 45352560.91 0.3711 0.2894

Jupiter 119459-07-27 00:55 G 45352770.38 45352770.54 45352770.70 0.0491 0.0111

Mars 119459-10-28 22:03 G 45352864.29 45352864.42 45352864.56 0.1621 0.0921

Saturn 119460-06-06 05:43 G 45353085.65 45353085.74 45353085.82 0.0280 0.0221

Saturn 119460-09-02 19:10 G 45353174.16 45353174.30 45353174.44 0.0280 0.0063

Mars 119460-09-07 23:43 G 45353179.40 45353179.49 45353179.59 0.1918 0.1162

Saturn 119460-11-30 08:07 G 45353262.71 45353262.84 45353262.98 0.0280 0.0094

Saturn 119461-02-26 21:05 G 45353351.32 45353351.38 45353351.45 0.0281 0.0248

Moon 119461-04-02 11:29 G 45353385.84 45353385.98 45353386.13 0.2654 0.0361

Earth 119461-04-02 11:58 G 45353385.86 45353386.00 45353386.14 0.2660 0.0238 *

Jupiter 119465-01-03 09:48 G 45354757.89 45354757.91 45354757.93 0.0540 0.0533

Jupiter 119465-04-02 22:46 G 45354847.33 45354847.45 45354847.58 0.0537 0.0213

Earth 119465-09-24 20:36 G 45355022.32 45355022.36 45355022.39 0.2675 0.2506

Moon 119465-09-24 21:05 G 45355022.33 45355022.38 45355022.44 0.2679 0.2329 *

Venus 119466-01-26 05:29 G 45355145.59 45355145.73 45355145.86 0.3658 0.0722

Mars 119469-03-20 01:24 G 45356294.40 45356294.56 45356294.71 0.1617 0.0221

Mars 119470-01-29 07:24 G 45356609.69 45356609.81 45356609.93 0.1924 0.0118

Jupiter 119471-05-15 00:41 G 45357080.36 45357080.53 45357080.69 0.0490 0.0071

Venus 119471-08-12 07:53 G 45357169.73 45357169.83 45357169.92 0.3662 0.2637

Moon 119474-04-05 12:55 G 45358137.00 45358137.04 45358137.09 0.2662 0.2508

Earth 119474-04-05 14:22 G 45358137.08 45358137.10 45358137.11 0.2662 0.2637 *

Saturn 119474-12-22 19:10 G 45358398.14 45358398.30 45358398.46 0.0280 0.0100

Saturn 119475-03-21 13:38 G 45358486.91 45358487.07 45358487.23 0.0279 0.0085

Saturn 119475-06-18 08:22 G 45358575.82 45358575.85 45358575.89 0.0279 0.0272

Uranus 119476-06-01 20:22 G 45358925.34 45358925.35 45358925.39 0.0140 0.0139

Uranus 119476-08-29 02:36 G 45359013.52 45359013.61 45359013.71 0.0140 0.0115

Uranus 119476-11-25 08:22 G 45359101.73 45359101.85 45359101.99 0.0140 0.0091

Jupiter 119477-01-20 01:24 G 45359157.42 45359157.56 45359157.69 0.0538 0.0030

Uranus 119477-02-21 14:22 G 45359189.96 45359190.10 45359190.26 0.0140 0.0068

Uranus 119477-05-20 20:36 G 45359278.20 45359278.36 45359278.53 0.0140 0.0043

Uranus 119477-08-17 02:50 G 45359366.45 45359366.62 45359366.79 0.0140 0.0018

Uranus 119477-11-13 08:50 G 45359454.70 45359454.87 45359455.05 0.0140 0.0007

Uranus 119478-02-09 15:05 G 45359542.96 45359543.13 45359543.30 0.0140 0.0031

Uranus 119478-05-08 21:05 G 45359631.23 45359631.38 45359631.55 0.0140 0.0056

Uranus 119478-08-05 03:34 G 45359719.51 45359719.65 45359719.80 0.0140 0.0080

Mars 119478-08-10 05:00 G 45359724.62 45359724.71 45359724.80 0.1613 0.1308

Earth 119478-09-27 15:48 G 45359773.05 45359773.16 45359773.28 0.2674 0.0591

Moon 119478-09-27 16:31 G 45359773.07 45359773.19 45359773.30 0.2669 0.0556 *

Uranus 119478-11-01 09:48 G 45359807.80 45359807.91 45359808.03 0.0140 0.0105

Uranus 119479-01-28 16:17 G 45359896.12 45359896.18 45359896.24 0.0140 0.0130

Mars 119479-06-21 14:22 G 45360040.02 45360040.10 45360040.17 0.1929 0.1459

Jupiter 119483-03-03 00:55 G 45361390.40 45361390.54 45361390.69 0.0489 0.0236

Jupiter 119483-05-31 22:31 G 45361480.38 45361480.44 45361480.51 0.0492 0.0455

Jupiter 119488-11-08 04:17 G 45363467.54 45363467.68 45363467.81 0.0539 0.0148

Saturn 119489-10-24 07:10 G 45363817.77 45363817.80 45363817.85 0.0279 0.0266

Saturn 119490-01-20 20:36 G 45363906.23 45363906.36 45363906.50 0.0279 0.0108

Saturn 119490-04-19 09:48 G 45363994.78 45363994.91 45363995.06 0.0279 0.0050

Saturn 119490-07-16 22:46 G 45364083.36 45364083.45 45364083.55 0.0280 0.0203

Moon 119491-09-30 10:31 G 45364523.84 45364523.94 45364524.04 0.2667 0.1256

Earth 119491-09-30 11:00 G 45364523.86 45364523.96 45364524.07 0.2671 0.1289 *

Moon 119494-03-31 14:36 G 45365437.07 45365437.11 45365437.15 0.2656 0.2529

Earth 119494-03-31 15:48 G 45365437.11 45365437.16 45365437.22 0.2658 0.2439 *

Jupiter 119494-12-20 01:38 G 45365700.48 45365700.57 45365700.66 0.0489 0.0401

Jupiter 119495-03-19 22:31 G 45365790.30 45365790.44 45365790.58 0.0491 0.0278

Venus 119498-12-21 01:53 G 45367162.49 45367162.58 45367162.67 0.3721 0.1933

Mars 119499-04-28 22:46 G 45367291.33 45367291.45 45367291.57 0.1621 0.1094

Mars 119500-03-09 23:58 G 45367606.42 45367606.50 45367606.59 0.1917 0.1320

Jupiter 119500-08-28 06:55 G 45367777.68 45367777.79 45367777.90 0.0539 0.0329

Jupiter 119500-11-25 19:24 G 45367867.22 45367867.31 45367867.40 0.0537 0.0405

Saturn 119504-05-11 17:29 G 45369130.10 45369130.23 45369130.36 0.0279 0.0170

Venus 119504-07-06 19:24 G 45369186.20 45369186.31 45369186.42 0.3717 0.0098

Saturn 119504-08-08 11:43 G 45369218.83 45369218.99 45369219.16 0.0279 0.0014

Saturn 119504-11-05 06:26 G 45369307.65 45369307.77 45369307.89 0.0279 0.0199

Jupiter 119507-01-06 23:00 G 45370100.30 45370100.46 45370100.62 0.0491 0.0110

Moon 119507-04-04 17:00 G 45370188.07 45370188.21 45370188.35 0.2665 0.0104

Earth 119507-04-04 17:58 G 45370188.10 45370188.25 45370188.39 0.2660 0.0341 *

Mars 119508-09-19 01:53 G 45370721.42 45370721.58 45370721.74 0.1617 0.0060

Mars 119509-07-31 07:10 G 45371036.68 45371036.80 45371036.92 0.1923 0.0049

Venus 119510-01-20 12:55 G 45371209.94 45371210.04 45371210.13 0.3713 0.1711

Moon 119511-09-27 01:24 G 45371824.49 45371824.56 45371824.63 0.2668 0.2060

Earth 119511-09-27 01:38 G 45371824.50 45371824.57 45371824.64 0.2675 0.2098 *

Jupiter 119512-06-16 08:36 G 45372087.83 45372087.86 45372087.89 0.0540 0.0526

Jupiter 119512-09-13 21:34 G 45372177.28 45372177.40 45372177.53 0.0537 0.0219

Venus 119515-08-06 05:58 G 45373233.72 45373233.75 45373233.79 0.3710 0.3440

Venus 119517-02-17 04:02 G 45373794.58 45373794.67 45373794.75 0.3655 0.2893

Mars 119518-02-09 05:29 G 45374151.62 45374151.73 45374151.84 0.1613 0.1143

Neptune 119518-07-28 20:50 G 45374321.35 45374321.37 45374321.42 0.0089 0.0087

Neptune 119518-10-24 23:29 G 45374409.42 45374409.48 45374409.58 0.0089 0.0079

Jupiter 119518-10-25 23:14 G 45374410.31 45374410.47 45374410.64 0.0490 0.0060

Mars 119518-12-21 14:22 G 45374467.01 45374467.10 45374467.19 0.1929 0.1301

Neptune 119519-01-21 02:36 G 45374497.51 45374497.61 45374497.72 0.0089 0.0070

Neptune 119519-04-19 05:14 G 45374585.61 45374585.72 45374585.85 0.0089 0.0062

Saturn 119519-06-10 22:17 G 45374638.31 45374638.43 45374638.55 0.0280 0.0153

Neptune 119519-07-16 07:53 G 45374673.71 45374673.83 45374673.98 0.0089 0.0054

Uranus 119519-09-06 11:43 G 45374725.95 45374725.99 45374726.05 0.0138 0.0128

Saturn 119519-09-07 11:43 G 45374726.85 45374726.99 45374727.13 0.0280 0.0005

Neptune 119519-10-12 10:46 G 45374761.81 45374761.95 45374762.11 0.0089 0.0045

Uranus 119519-12-03 16:02 G 45374814.08 45374814.17 45374814.26 0.0138 0.0108

Saturn 119519-12-05 00:41 G 45374815.42 45374815.53 45374815.65 0.0280 0.0160

Neptune 119520-01-08 13:53 G 45374849.92 45374850.08 45374850.24 0.0089 0.0036

Uranus 119520-02-29 20:07 G 45374902.23 45374902.34 45374902.46 0.0138 0.0088

Neptune 119520-04-05 16:31 G 45374938.03 45374938.19 45374938.36 0.0089 0.0028

Uranus 119520-05-28 00:12 G 45374990.39 45374990.51 45374990.64 0.0138 0.0068

Neptune 119520-07-02 19:24 G 45375026.14 45375026.31 45375026.48 0.0089 0.0019

Uranus 119520-08-24 04:31 G 45375078.55 45375078.69 45375078.83 0.0138 0.0048

Neptune 119520-09-28 22:17 G 45375114.26 45375114.43 45375114.61 0.0089 0.0011

Uranus 119520-11-20 08:36 G 45375166.72 45375166.86 45375167.00 0.0138 0.0028

Neptune 119520-12-26 01:10 G 45375202.38 45375202.55 45375202.73 0.0089 0.0002

Uranus 119521-02-16 12:41 G 45375254.88 45375255.03 45375255.17 0.0138 0.0008

Neptune 119521-03-24 04:02 G 45375290.49 45375290.67 45375290.85 0.0089 0.0007

Uranus 119521-05-15 16:46 G 45375343.05 45375343.20 45375343.34 0.0138 0.0012

Neptune 119521-06-20 06:55 G 45375378.62 45375378.79 45375378.96 0.0089 0.0015

Uranus 119521-08-11 20:36 G 45375431.22 45375431.36 45375431.50 0.0138 0.0031

Neptune 119521-09-16 09:48 G 45375466.74 45375466.91 45375467.08 0.0089 0.0024

Uranus 119521-11-08 00:26 G 45375519.40 45375519.52 45375519.66 0.0138 0.0052

Neptune 119521-12-13 12:26 G 45375554.87 45375555.02 45375555.20 0.0089 0.0033

Uranus 119522-02-04 04:31 G 45375607.57 45375607.69 45375607.82 0.0138 0.0070

Neptune 119522-03-11 15:19 G 45375643.00 45375643.14 45375643.31 0.0089 0.0042

Uranus 119522-05-03 08:36 G 45375695.75 45375695.86 45375695.97 0.0138 0.0090

Neptune 119522-06-07 18:12 G 45375731.13 45375731.26 45375731.42 0.0089 0.0051

Uranus 119522-07-30 12:12 G 45375783.94 45375784.01 45375784.11 0.0138 0.0110

Venus 119522-09-03 05:43 G 45375818.60 45375818.74 45375818.88 0.3659 0.0321

Neptune 119522-09-03 21:34 G 45375819.27 45375819.40 45375819.53 0.0089 0.0060

Uranus 119522-10-26 16:17 G 45375872.13 45375872.18 45375872.24 0.0138 0.0128

Neptune 119522-12-01 00:12 G 45375907.41 45375907.51 45375907.63 0.0089 0.0069

Neptune 119523-02-27 03:05 G 45375995.56 45375995.63 45375995.73 0.0089 0.0078

Neptune 119523-05-26 06:12 G 45376083.73 45376083.76 45376083.81 0.0089 0.0086

Jupiter 119524-07-02 23:58 G 45376487.36 45376487.50 45376487.64 0.0538 0.0034

Moon 119524-09-28 20:07 G 45376575.22 45376575.34 45376575.46 0.2674 0.0384

Earth 119524-09-28 20:50 G 45376575.26 45376575.37 45376575.49 0.2673 0.0198 *

Jupiter 119530-08-13 23:14 G 45378720.33 45378720.47 45378720.62 0.0489 0.0234

Jupiter 119530-11-11 20:50 G 45378810.31 45378810.37 45378810.43 0.0491 0.0456

Saturn 119533-09-28 19:38 G 45379862.21 45379862.32 45379862.43 0.0280 0.0201

Saturn 119533-12-26 13:53 G 45379950.91 45379951.08 45379951.25 0.0280 0.0019

Saturn 119534-03-25 08:22 G 45380039.72 45380039.85 45380039.99 0.0279 0.0168

Jupiter 119536-04-21 02:07 G 45380797.46 45380797.59 45380797.72 0.0539 0.0157

Moon 119537-10-01 15:48 G 45381326.07 45381326.16 45381326.25 0.2677 0.1693

Earth 119537-10-01 16:02 G 45381326.08 45381326.17 45381326.26 0.2671 0.1670 *

Mars 119538-10-28 23:14 G 45381718.37 45381718.47 45381718.57 0.1622 0.1266

Mars 119539-09-08 23:58 G 45382033.43 45382033.50 45382033.58 0.1917 0.1465

Earth 119540-04-01 21:48 G 45382239.31 45382239.41 45382239.51 0.2658 0.1895

Moon 119540-04-01 22:02 G 45382239.32 45382239.42 45382239.52 0.2665 0.1796 *

Jupiter 119542-06-01 23:58 G 45383030.41 45383030.50 45383030.60 0.0489 0.0396

Jupiter 119542-08-30 20:50 G 45383120.24 45383120.37 45383120.51 0.0491 0.0282

Jupiter 119548-02-08 05:00 G 45385107.60 45385107.71 45385107.81 0.0540 0.0336

Mars 119548-03-20 02:36 G 45385148.45 45385148.61 45385148.77 0.1617 0.0136

Jupiter 119548-05-07 17:29 G 45385197.14 45385197.23 45385197.32 0.0537 0.0400

Saturn 119548-10-28 00:12 G 45385370.41 45385370.51 45385370.62 0.0279 0.0195

Saturn 119549-01-24 13:38 G 45385458.93 45385459.07 45385459.21 0.0279 0.0039

Mars 119549-01-29 07:24 G 45385463.69 45385463.81 45385463.93 0.1923 0.0179

Saturn 119549-04-23 02:36 G 45385547.49 45385547.61 45385547.75 0.0279 0.0117

Saturn 119549-07-20 15:34 G 45385636.12 45385636.15 45385636.19 0.0280 0.0269

Pluto 119549-12-07 03:34 G 45385775.59 45385775.65 45385775.76 0.0059 0.0053

Venus 119550-01-12 05:58 G 45385811.70 45385811.75 45385811.81 0.3723 0.3238

Pluto 119550-03-05 05:14 G 45385863.60 45385863.72 45385863.86 0.0059 0.0044

Pluto 119550-06-01 06:26 G 45385951.63 45385951.77 45385951.95 0.0059 0.0036

Pluto 119550-08-28 07:53 G 45386039.67 45386039.83 45386040.02 0.0059 0.0027

Pluto 119550-11-24 09:05 G 45386127.71 45386127.88 45386128.09 0.0059 0.0020

Pluto 119551-02-20 10:46 G 45386215.76 45386215.95 45386216.15 0.0059 0.0010

Pluto 119551-05-19 12:12 G 45386303.82 45386304.01 45386304.21 0.0059 0.0002

Pluto 119551-08-15 13:38 G 45386391.87 45386392.07 45386392.27 0.0059 0.0007

Pluto 119551-11-11 14:36 G 45386479.94 45386480.11 45386480.32 0.0059 0.0017

Pluto 119552-02-07 16:17 G 45386568.00 45386568.18 45386568.36 0.0059 0.0025

Pluto 119552-05-05 17:14 G 45386656.08 45386656.22 45386656.40 0.0059 0.0034

Pluto 119552-08-01 18:26 G 45386744.16 45386744.27 45386744.44 0.0059 0.0043

Pluto 119552-10-28 19:53 G 45386832.26 45386832.33 45386832.45 0.0059 0.0051

Earth 119553-04-04 23:43 G 45386990.36 45386990.49 45386990.63 0.2661 0.0895

Moon 119553-04-05 01:10 G 45386990.42 45386990.55 45386990.68 0.2660 0.1033 *

Jupiter 119554-06-18 21:05 G 45387430.21 45387430.38 45387430.54 0.0490 0.0109

Venus 119555-07-28 23:43 G 45387835.39 45387835.49 45387835.60 0.3720 0.1345

Mars 119557-08-10 05:58 G 45388578.63 45388578.75 45388578.88 0.1613 0.0976

Moon 119557-09-27 06:12 G 45388626.67 45388626.76 45388626.84 0.2680 0.1768

Earth 119557-09-27 06:41 G 45388626.69 45388626.78 45388626.87 0.2675 0.1692 *

Mars 119558-06-21 14:22 G 45388894.01 45388894.10 45388894.20 0.1929 0.1156

Jupiter 119559-11-27 07:24 G 45389417.78 45389417.81 45389417.85 0.0540 0.0518

Jupiter 119560-02-24 20:36 G 45389507.24 45389507.36 45389507.48 0.0538 0.0229

Uranus 119560-06-23 03:34 G 45389626.61 45389626.65 45389626.72 0.0140 0.0132

Uranus 119560-09-19 09:34 G 45389714.80 45389714.90 45389715.02 0.0140 0.0109

Uranus 119560-12-16 15:48 G 45389803.03 45389803.16 45389803.29 0.0140 0.0085

Venus 119561-02-10 17:29 G 45389859.12 45389859.23 45389859.33 0.3716 0.0514

Uranus 119561-03-14 21:48 G 45389891.26 45389891.41 45389891.56 0.0140 0.0061

Uranus 119561-06-11 03:48 G 45389979.50 45389979.66 45389979.83 0.0140 0.0036

Uranus 119561-09-07 10:02 G 45390067.75 45390067.92 45390068.09 0.0140 0.0012

Uranus 119561-12-04 16:02 G 45390156.00 45390156.17 45390156.35 0.0140 0.0013

Uranus 119562-03-02 22:17 G 45390244.27 45390244.43 45390244.60 0.0140 0.0037

Uranus 119562-05-30 04:31 G 45390332.54 45390332.69 45390332.85 0.0140 0.0062

Uranus 119562-08-26 10:46 G 45390420.82 45390420.95 45390421.09 0.0140 0.0087

Uranus 119562-11-22 17:00 G 45390509.11 45390509.21 45390509.32 0.0140 0.0112

Saturn 119563-02-15 17:29 G 45390594.21 45390594.23 45390594.27 0.0280 0.0273

Uranus 119563-02-18 23:14 G 45390597.45 45390597.47 45390597.52 0.0140 0.0137

Saturn 119563-05-15 11:58 G 45390682.84 45390683.00 45390683.15 0.0280 0.0092

Saturn 119563-08-12 06:12 G 45390771.61 45390771.76 45390771.93 0.0279 0.0093

Jupiter 119566-04-06 21:34 G 45391740.24 45391740.40 45391740.57 0.0490 0.0058

Venus   119566-08-27 10:46 G 45391882.87 45391882.95 45391883.03 0.3712 0.2274

Earth   119570-09-30 01:53 G 45393377.47 45393377.58 45393377.70 0.2673 0.0210

Moon   119570-09-30 02:22 G 45393377.49 45393377.60 45393377.72 0.2678 0.0278 *

Jupiter 119571-12-13 23:00 G 45393817.32 45393817.46 45393817.59 0.0538 0.0045

Venus   119573-09-24 04:02 G 45394467.56 45394467.67 45394467.79 0.3656 0.1905

Jupiter 119578-01-23 22:02 G 45396050.28 45396050.42 45396050.57 0.0490 0.0224

Saturn 119578-03-17 01:10 G 45396102.49 45396102.55 45396102.62 0.0279 0.0248

Jupiter 119578-04-23 19:53 G 45396140.28 45396140.33 45396140.37 0.0492 0.0469

Mars   119578-04-28 23:58 G 45396145.43 45396145.50 45396145.57 0.1622 0.1446

Saturn 119578-06-13 14:50 G 45396190.98 45396191.12 45396191.26 0.0280 0.0089

Saturn 119578-09-10 04:02 G 45396279.53 45396279.67 45396279.81 0.0280 0.0067

Saturn 119578-12-07 17:00 G 45396368.13 45396368.21 45396368.30 0.0280 0.0221

Mars   119579-03-09 23:58 G 45396460.44 45396460.50 45396460.57 0.1917 0.1607

Venus   119579-04-10 06:12 G 45396491.63 45396491.76 45396491.89 0.3660 0.1364

Jupiter 119583-10-02 01:10 G 45398127.42 45398127.55 45398127.68 0.0539 0.0145

Earth   119583-10-02 21:05 G 45398128.31 45398128.38 45398128.45 0.2671 0.2055

Moon   119583-10-02 21:48 G 45398128.35 45398128.41 45398128.47 0.2667 0.2195 *

Earth   119586-04-03 03:34 G 45399041.53 45399041.65 45399041.77 0.2659 0.1339

Moon   119586-04-03 04:17 G 45399041.55 45399041.68 45399041.80 0.2653 0.1229 *

Mars   119587-09-19 02:50 G 45399575.47 45399575.62 45399575.78 0.1617 0.0295

Mars   119588-07-30 07:24 G 45399890.70 45399890.81 45399890.93 0.1923 0.0333

Jupiter 119589-11-11 22:31 G 45400360.34 45400360.44 45400360.54 0.0489 0.0391

Jupiter 119590-02-09 19:24 G 45400450.17 45400450.31 45400450.45 0.0491 0.0287

Saturn 119592-10-01 13:38 G 45401414.92 45401415.07 45401415.22 0.0280 0.0127

Saturn 119592-12-29 08:07 G 45401503.68 45401503.84 45401504.01 0.0280 0.0058

Saturn 119593-03-28 02:50 G 45401592.54 45401592.62 45401592.70 0.0279 0.0245

Jupiter 119595-07-21 03:05 G 45402437.52 45402437.63 45402437.74 0.0540 0.0342

Jupiter 119595-10-18 15:34 G 45402527.07 45402527.15 45402527.25 0.0537 0.0396

Mars 119597-02-08 06:41 G 45403005.64 45403005.78 45403005.91 0.1613 0.0808

Mars 119597-12-20 14:36 G 45403321.01 45403321.11 45403321.21 0.1928 0.1003

Moon 119599-04-06 04:46 G 45403792.58 45403792.70 45403792.83 0.2656 0.1315

Earth 119599-04-06 05:43 G 45403792.62 45403792.74 45403792.86 0.2661 0.1473 *

Neptune 119599-05-28 07:24 G 45403844.77 45403844.81 45403844.87 0.0088 0.0083

Neptune 119599-08-24 09:05 G 45403932.82 45403932.88 45403932.96 0.0088 0.0075

Neptune 119599-11-20 10:46 G 45404020.87 45404020.95 45404021.05 0.0088 0.0068

Neptune 119600-02-16 12:26 G 45404108.93 45404109.02 45404109.14 0.0088 0.0061

Neptune 119600-05-14 14:07 G 45404196.99 45404197.09 45404197.22 0.0088 0.0055

Neptune 119600-08-10 15:48 G 45404285.05 45404285.16 45404285.30 0.0088 0.0048

Neptune 119600-11-06 17:29 G 45404373.11 45404373.23 45404373.37 0.0088 0.0041

Neptune 119601-02-02 19:10 G 45404461.18 45404461.30 45404461.45 0.0088 0.0034

Neptune 119601-05-01 21:05 G 45404549.24 45404549.38 45404549.52 0.0088 0.0026

Neptune 119601-07-28 22:46 G 45404637.31 45404637.45 45404637.59 0.0088 0.0019

Neptune 119601-10-25 00:26 G 45404725.38 45404725.52 45404725.66 0.0088 0.0012

Jupiter 119601-11-28 19:38 G 45404760.16 45404760.32 45404760.48 0.0490 0.0116

Neptune 119602-01-21 02:07 G 45404813.44 45404813.59 45404813.73 0.0088 0.0005

Neptune 119602-04-19 03:48 G 45404901.51 45404901.66 45404901.80 0.0088 0.0003

Neptune 119602-07-16 05:14 G 45404989.58 45404989.72 45404989.87 0.0088 0.0009

Neptune 119602-10-12 06:55 G 45405077.65 45405077.79 45405077.93 0.0088 0.0016

Neptune 119603-01-08 08:36 G 45405165.72 45405165.86 45405166.00 0.0088 0.0022

Neptune 119603-04-06 10:02 G 45405253.79 45405253.92 45405254.06 0.0088 0.0029

Neptune 119603-07-03 11:43 G 45405341.86 45405341.99 45405342.12 0.0088 0.0036

Uranus 119603-09-26 19:10 G 45405427.24 45405427.30 45405427.37 0.0138 0.0122

Earth 119603-09-28 11:43 G 45405428.89 45405428.99 45405429.09 0.2675 0.1289

Moon 119603-09-28 12:26 G 45405428.92 45405429.02 45405429.13 0.2675 0.1186 *

Neptune 119603-09-29 13:10 G 45405429.94 45405430.05 45405430.18 0.0088 0.0043

Uranus 119603-12-23 23:14 G 45405515.38 45405515.47 45405515.58 0.0138 0.0102

Neptune 119603-12-26 14:50 G 45405518.01 45405518.12 45405518.24 0.0088 0.0050

Uranus 119604-03-21 03:34 G 45405603.54 45405603.65 45405603.77 0.0138 0.0082

Neptune 119604-03-23 16:31 G 45405606.08 45405606.19 45405606.30 0.0088 0.0056

Uranus 119604-06-17 07:38 G 45405691.69 45405691.82 45405691.96 0.0138 0.0062

Neptune 119604-06-19 17:58 G 45405694.16 45405694.25 45405694.36 0.0088 0.0063

Uranus 119604-09-13 11:43 G 45405779.86 45405779.99 45405780.13 0.0138 0.0042

Neptune 119604-09-15 19:24 G 45405782.24 45405782.31 45405782.41 0.0088 0.0070

Uranus 119604-12-10 16:02 G 45405868.02 45405868.17 45405868.31 0.0138 0.0022

Neptune 119604-12-12 21:05 G 45405870.32 45405870.38 45405870.46 0.0088 0.0077

Uranus 119605-03-08 19:53 G 45405956.19 45405956.33 45405956.48 0.0138 0.0005

Neptune 119605-03-10 22:31 G 45405958.41 45405958.44 45405958.50 0.0088 0.0083

Uranus 119605-06-04 23:58 G 45406044.36 45406044.50 45406044.65 0.0138 0.0018

Uranus 119605-09-01 04:02 G 45406132.53 45406132.67 45406132.81 0.0138 0.0037

Uranus 119605-11-28 07:53 G 45406220.71 45406220.83 45406220.97 0.0138 0.0057

Uranus 119606-02-24 11:58 G 45406308.88 45406309.00 45406309.12 0.0138 0.0077

Uranus 119606-05-23 15:48 G 45406397.07 45406397.16 45406397.27 0.0138 0.0096

Venus 119606-08-19 04:02 G 45406484.60 45406484.67 45406484.75 0.3722 0.2622

Uranus 119606-08-19 19:38 G 45406485.25 45406485.32 45406485.41 0.0138 0.0116

Uranus 119606-11-15 23:43 G 45406573.46 45406573.49 45406573.53 0.0138 0.0134

Jupiter 119607-05-09 05:43 G 45406747.71 45406747.74 45406747.77 0.0541 0.0525

Jupiter 119607-08-06 18:55 G 45406837.16 45406837.29 45406837.41 0.0538 0.0225

Saturn 119607-10-31 16:46 G 45406923.08 45406923.20 45406923.33 0.0279 0.0130

Saturn 119608-01-28 06:12 G 45407011.61 45407011.76 45407011.90 0.0279 0.0027

Saturn 119608-04-25 19:10 G 45407100.19 45407100.30 45407100.41 0.0279 0.0179

Venus 119612-03-03 21:48 G 45408508.30 45408508.41 45408508.52 0.3719 0.0738

Jupiter 119613-09-16 19:53 G 45409070.16 45409070.33 45409070.50 0.0490 0.0055

Moon 119616-09-30 06:55 G 45410179.68 45410179.79 45410179.91 0.2666 0.0632

Earth 119616-09-30 06:55 G 45410179.68 45410179.79 45410179.91 0.2673 0.0608 *

Venus 119617-09-17 15:19 G 45410532.04 45410532.14 45410532.25 0.3715 0.1086

Mars 119617-10-28 00:26 G 45410572.51 45410572.52 45410572.53 0.1622 0.1617

Mars 119618-09-08 00:12 G 45410887.46 45410887.51 45410887.55 0.1917 0.1756

Jupiter 119619-05-25 21:48 G 45411147.27 45411147.41 45411147.55 0.0538 0.0052

Saturn 119622-02-18 11:29 G 45412146.87 45412146.98 45412147.10 0.0280 0.0201

Saturn 119622-05-18 05:58 G 45412235.58 45412235.75 45412235.91 0.0280 0.0019

Saturn 119622-08-15 00:26 G 45412324.39 45412324.52 45412324.66 0.0279 0.0168

Venus 119623-04-03 08:36 G 45412555.80 45412555.86 45412555.93 0.3711 0.2843

Jupiter 119625-07-05 20:36 G 45413380.21 45413380.36 45413380.51 0.0489 0.0218

Jupiter 119625-10-03 17:58 G 45413470.22 45413470.25 45413470.30 0.0492 0.0474

Mars 119627-03-20 03:34 G 45414002.50 45414002.65 45414002.81 0.1617 0.0477

Mars 119628-01-29 07:24 G 45414317.70 45414317.81 45414317.93 0.1923 0.0465

Moon 119629-10-03 01:24 G 45414930.50 45414930.56 45414930.62 0.2668 0.2298

Earth 119629-10-03 02:07 G 45414930.55 45414930.59 45414930.63 0.2670 0.2442 *

Venus 119630-05-01 04:17 G 45415140.55 45415140.68 45415140.82 0.3657 0.0894

Jupiter 119631-03-14 00:12 G 45415457.37 45415457.51 45415457.64 0.0539 0.0135

Moon 119632-04-03 08:07 G 45415843.71 45415843.84 45415843.98 0.2660 0.1044

Earth 119632-04-03 09:34 G 45415843.76 45415843.90 45415844.03 0.2659 0.0780 *

Venus 119635-11-15 06:41 G 45417164.67 45417164.78 45417164.88 0.3661 0.2435

Mars 119636-08-09 06:55 G 45417432.65 45417432.79 45417432.94 0.1613 0.0644

Moon 119636-09-25 21:48 G 45417480.40 45417480.41 45417480.41 0.2670 0.2661

Saturn 119637-03-19 17:43 G 45417655.13 45417655.24 45417655.35 0.0279 0.0184

Jupiter 119637-04-23 21:19 G 45417690.29 45417690.39 45417690.50 0.0489 0.0380

Saturn 119637-06-16 06:55 G 45417743.65 45417743.79 45417743.94 0.0279 0.0028

Mars 119637-06-20 14:36 G 45417748.00 45417748.11 45417748.22 0.1929 0.0852

Jupiter 119637-07-22 18:12 G 45417780.13 45417780.26 45417780.40 0.0491 0.0300

Saturn 119637-09-12 20:07 G 45417832.21 45417832.34 45417832.47 0.0280 0.0128

Jupiter 119642-12-31 02:22 G 45419767.49 45419767.60 45419767.71 0.0539 0.0326

Jupiter 119643-03-30 14:50 G 45419857.03 45419857.12 45419857.21 0.0537 0.0408

Uranus 119644-07-13 10:17 G 45420327.88 45420327.93 45420328.01 0.0140 0.0128

Uranus 119644-10-09 16:31 G 45420416.08 45420416.19 45420416.31 0.0140 0.0103

Uranus 119645-01-05 22:31 G 45420504.30 45420504.44 45420504.58 0.0140 0.0080

Uranus 119645-04-04 04:31 G 45420592.54 45420592.69 45420592.85 0.0140 0.0056

Moon 119645-04-06 11:29 G 45420594.90 45420594.98 45420595.07 0.2669 0.2094

Earth 119645-04-06 11:43 G 45420594.90 45420594.99 45420595.08 0.2661 0.2045 *

Uranus 119645-07-01 10:46 G 45420680.78 45420680.95 45420681.11 0.0140 0.0031

Uranus 119645-09-27 16:46 G 45420769.03 45420769.20 45420769.37 0.0140 0.0007

Uranus 119645-12-24 23:00 G 45420857.29 45420857.46 45420857.63 0.0140 0.0018

Uranus 119646-03-23 05:14 G 45420945.55 45420945.72 45420945.88 0.0140 0.0042

Uranus 119646-06-19 11:14 G 45421033.82 45421033.97 45421034.13 0.0140 0.0067

Uranus 119646-09-15 17:29 G 45421122.11 45421122.23 45421122.37 0.0140 0.0092

Uranus 119646-12-12 23:43 G 45421210.41 45421210.49 45421210.60 0.0140 0.0117

Pluto 119647-02-13 04:46 G 45421272.66 45421272.70 45421272.78 0.0085 0.0077

Pluto 119647-05-12 06:26 G 45421360.67 45421360.77 45421360.86 0.0085 0.0058

Pluto 119647-08-08 07:38 G 45421448.71 45421448.82 45421448.94 0.0085 0.0041

Pluto 119647-11-04 08:50 G 45421536.75 45421536.87 45421537.00 0.0085 0.0024

Pluto 119648-01-31 10:02 G 45421624.79 45421624.92 45421625.06 0.0085 0.0007

Pluto 119648-04-28 11:14 G 45421712.84 45421712.97 45421713.11 0.0085 0.0011

Pluto 119648-07-25 12:26 G 45421800.90 45421801.02 45421801.15 0.0085 0.0028

Pluto 119648-10-21 13:38 G 45421888.96 45421889.07 45421889.19 0.0084 0.0044

Pluto 119649-01-17 14:50 G 45421977.04 45421977.12 45421977.21 0.0084 0.0061

Pluto 119649-04-15 15:48 G 45422065.13 45422065.16 45422065.22 0.0084 0.0078

Jupiter 119649-05-10 18:12 G 45422090.10 45422090.26 45422090.43 0.0490 0.0124

Moon 119649-09-28 16:02 G 45422231.06 45422231.17 45422231.28 0.2670 0.1050

Earth 119649-09-28 16:46 G 45422231.09 45422231.20 45422231.31 0.2674 0.0886 *

Saturn 119651-07-08 12:55 G 45422878.96 45422879.04 45422879.12 0.0280 0.0241

Saturn 119651-10-05 07:10 G 45422967.64 45422967.80 45422967.96 0.0280 0.0058

Saturn 119652-01-02 01:38 G 45423056.42 45423056.57 45423056.72 0.0280 0.0127

Jupiter 119654-10-19 03:48 G 45424077.64 45424077.66 45424077.69 0.0541 0.0528

Jupiter 119655-01-16 17:00 G 45424167.09 45424167.21 45424167.34 0.0538 0.0222

Mars 119658-03-09 00:12 G 45425314.50 45425314.51 45425314.52 0.1916 0.1904

Jupiter 119661-02-26 18:41 G 45426400.12 45426400.28 45426400.45 0.0489 0.0045

Moon 119662-10-01 11:14 G 45426981.87 45426981.97 45426982.08 0.2675 0.0951

Earth 119662-10-01 11:58 G 45426981.90 45426982.00 45426982.11 0.2672 0.0999 *

Venus 119663-03-26 02:07 G 45427157.50 45427157.59 45427157.68 0.3721 0.2005

Saturn 119666-08-06 19:38 G 45428387.24 45428387.32 45428387.41 0.0278 0.0223

Mars 119666-09-18 04:02 G 45428429.53 45428429.67 45428429.82 0.1618 0.0648

Saturn 119666-11-03 09:19 G 45428475.75 45428475.89 45428476.03 0.0278 0.0067

Jupiter 119666-11-04 20:07 G 45428477.20 45428477.34 45428477.47 0.0539 0.0051

Saturn 119667-01-30 22:17 G 45428564.30 45428564.43 45428564.57 0.0279 0.0088

Saturn 119667-04-29 11:14 G 45428652.90 45428652.97 45428653.04 0.0279 0.0240

Mars 119667-07-30 07:24 G 45428744.70 45428744.81 45428744.92 0.1923 0.0615

Venus 119668-10-08 19:53 G 45429181.22 45429181.33 45429181.44 0.3718 0.0148

Jupiter 119672-12-15 19:10 G 45430710.15 45430710.30 45430710.45 0.0489 0.0213

Jupiter 119673-03-15 16:31 G 45430800.15 45430800.19 45430800.23 0.0491 0.0476

Venus 119674-04-24 13:24 G 45431204.96 45431205.06 45431205.15 0.3714 0.1667

Mars 119676-02-08 07:38 G 45431859.67 45431859.82 45431859.97 0.1613 0.0470

Mars 119676-12-19 14:50 G 45432175.00 45432175.12 45432175.23 0.1928 0.0699

Earth 119678-04-04 15:34 G 45432646.00 45432646.15 45432646.29 0.2660 0.0223

Moon 119678-04-04 16:31 G 45432646.05 45432646.19 45432646.34 0.2664 0.0161 *

Jupiter 119678-08-23 23:00 G 45432787.32 45432787.46 45432787.59 0.0539 0.0127

Venus 119679-11-08 06:26 G 45433228.73 45433228.77 45433228.82 0.3710 0.3403

Saturn 119681-02-21 05:00 G 45433699.57 45433699.71 45433699.86 0.0280 0.0132

Saturn 119681-05-20 23:29 G 45433788.31 45433788.48 45433788.65 0.0280 0.0052

Venus 119681-05-22 02:50 G 45433789.55 45433789.62 45433789.69 0.3654 0.3043

Saturn 119681-08-17 18:12 G 45433877.17 45433877.26 45433877.35 0.0279 0.0239

Moon 119682-09-27 01:38 G 45434282.52 45434282.57 45434282.61 0.2677 0.2479

Earth 119682-09-27 02:22 G 45434282.55 45434282.60 45434282.65 0.2676 0.2407 *

Neptune 119683-04-24 19:38 G 45434492.28 45434492.32 45434492.40 0.0089 0.0083

Neptune 119683-07-21 22:17 G 45434580.36 45434580.43 45434580.54 0.0089 0.0075

Neptune 119683-10-18 01:24 G 45434668.45 45434668.56 45434668.68 0.0089 0.0066

Neptune 119684-01-14 04:02 G 45434756.55 45434756.67 45434756.81 0.0089 0.0058

Neptune 119684-04-11 06:55 G 45434844.65 45434844.79 45434844.94 0.0089 0.0049

Neptune 119684-07-08 09:34 G 45434932.76 45434932.90 45434933.07 0.0089 0.0041

Jupiter 119684-10-03 19:53 G 45435020.23 45435020.33 45435020.44 0.0489 0.0373

Neptune 119684-10-04 12:41 G 45435020.87 45435021.03 45435021.19 0.0089 0.0032

Neptune 119684-12-31 15:19 G 45435108.98 45435109.14 45435109.32 0.0089 0.0024

Jupiter 119685-01-01 16:46 G 45435110.07 45435110.20 45435110.34 0.0491 0.0307

Neptune 119685-03-29 18:12 G 45435197.09 45435197.26 45435197.44 0.0089 0.0015

Neptune 119685-06-25 21:05 G 45435285.21 45435285.38 45435285.56 0.0089 0.0007

Mars 119685-06-30 11:29 G 45435289.94 45435289.98 45435290.01 0.1609 0.1554

Neptune 119685-09-21 23:58 G 45435373.33 45435373.50 45435373.68 0.0089 0.0003

Neptune 119685-12-19 02:50 G 45435461.45 45435461.62 45435461.80 0.0089 0.0011

Neptune 119686-03-17 05:43 G 45435549.57 45435549.74 45435549.91 0.0089 0.0020

Neptune 119686-06-13 08:36 G 45435637.69 45435637.86 45435638.03 0.0089 0.0029

Neptune 119686-09-09 11:29 G 45435725.82 45435725.98 45435726.14 0.0089 0.0037

Venus 119686-12-06 04:31 G 45435813.56 45435813.69 45435813.83 0.3658 0.0161

Neptune 119686-12-06 14:22 G 45435813.95 45435814.10 45435814.26 0.0089 0.0046

Neptune 119687-03-04 17:00 G 45435902.09 45435902.21 45435902.37 0.0089 0.0056

Neptune 119687-05-31 19:53 G 45435990.23 45435990.33 45435990.47 0.0089 0.0065

Uranus 119687-07-20 22:31 G 45436040.42 45436040.44 45436040.45 0.0138 0.0136

Neptune 119687-08-27 22:46 G 45436078.37 45436078.45 45436078.57 0.0089 0.0074

Uranus 119687-10-17 02:36 G 45436128.53 45436128.61 45436128.69 0.0138 0.0116

Neptune 119687-11-24 01:38 G 45436166.53 45436166.57 45436166.66 0.0089 0.0083

Uranus 119688-01-13 06:41 G 45436216.68 45436216.78 45436216.89 0.0138 0.0096

Uranus 119688-04-10 10:46 G 45436304.84 45436304.95 45436305.08 0.0138 0.0076

Uranus 119688-07-07 15:05 G 45436393.00 45436393.13 45436393.26 0.0138 0.0056

Uranus 119688-10-03 19:10 G 45436481.16 45436481.30 45436481.44 0.0138 0.0036

Uranus 119688-12-30 23:14 G 45436569.33 45436569.47 45436569.62 0.0138 0.0016

Uranus 119689-03-29 03:19 G 45436657.50 45436657.64 45436657.79 0.0138 0.0004

Uranus 119689-06-25 07:24 G 45436745.67 45436745.81 45436745.95 0.0138 0.0024

Uranus 119689-09-21 11:29 G 45436833.84 45436833.98 45436834.11 0.0138 0.0043

Uranus 119689-12-18 15:19 G 45436922.02 45436922.14 45436922.27 0.0138 0.0063

Uranus 119690-03-16 19:24 G 45437010.20 45437010.31 45437010.42 0.0138 0.0082

Jupiter 119690-06-12 01:10 G 45437097.44 45437097.55 45437097.67 0.0539 0.0315

Uranus 119690-06-12 23:00 G 45437098.38 45437098.46 45437098.57 0.0138 0.0103

Uranus 119690-09-09 03:05 G 45437186.57 45437186.63 45437186.71 0.0138 0.0121

Jupiter 119690-09-09 13:53 G 45437187.00 45437187.08 45437187.16 0.0537 0.0420

Earth 119691-04-07 17:43 G 45437397.22 45437397.24 45437397.26 0.2662 0.2622

Venus 119692-06-21 06:55 G 45437837.76 45437837.79 45437837.83 0.3663 0.3514

Moon 119695-09-29 21:48 G 45439033.29 45439033.41 45439033.52 0.2681 0.0573

Earth 119695-09-29 21:48 G 45439033.29 45439033.41 45439033.53 0.2674 0.0482 *

Saturn 119696-03-22 09:48 G 45439207.78 45439207.91 45439208.04 0.0279 0.0124

Saturn 119696-06-18 23:00 G 45439296.32 45439296.46 45439296.60 0.0279 0.0032

Saturn 119696-09-15 11:58 G 45439384.90 45439385.00 45439385.11 0.0280 0.0186

Jupiter 119696-10-20 17:14 G 45439420.06 45439420.22 45439420.38 0.0491 0.0136

Jupiter 119702-04-01 03:19 G 45441407.60 45441407.64 45441407.69 0.0540 0.0507

Jupiter 119702-06-29 16:31 G 45441497.07 45441497.19 45441497.31 0.0537 0.0240

Mars 119706-03-20 04:31 G 45442856.56 45442856.69 45442856.83 0.1618 0.0812

Mars 119707-01-29 07:38 G 45443171.71 45443171.82 45443171.93 0.1922 0.0782

Jupiter 119708-08-09 17:29 G 45443730.07 45443730.23 45443730.40 0.0490 0.0036

Earth 119708-10-02 17:00 G 45443784.11 45443784.21 45443784.31 0.2672 0.1385

Moon 119708-10-02 17:58 G 45443784.15 45443784.25 45443784.34 0.2673 0.1601 *

Saturn 119710-07-12 05:43 G 45444431.62 45444431.74 45444431.87 0.0280 0.0177

Saturn 119710-10-09 00:12 G 45444520.34 45444520.51 45444520.68 0.0280 0.0007

Saturn 119711-01-05 18:55 G 45444609.17 45444609.29 45444609.41 0.0280 0.0193

Earth 119711-04-03 19:38 G 45444697.26 45444697.32 45444697.37 0.2658 0.2408

Moon 119711-04-03 20:36 G 45444697.28 45444697.36 45444697.45 0.2655 0.2128 *

Venus 119714-04-17 06:26 G 45445806.72 45445806.77 45445806.82 0.3724 0.3303

Jupiter 119714-04-17 18:26 G 45445807.13 45445807.27 45445807.41 0.0539 0.0047

Mars 119715-08-10 08:07 G 45446286.69 45446286.84 45446287.00 0.1614 0.0305

Mars 119716-06-20 14:36 G 45446602.00 45446602.11 45446602.23 0.1928 0.0560

Venus 119719-11-01 00:12 G 45447830.41 45447830.51 45447830.61 0.3720 0.1392

Jupiter 119720-05-28 18:12 G 45448040.11 45448040.26 45448040.41 0.0489 0.0199

Jupiter 119720-08-26 15:34 G 45448130.14 45448130.15 45448130.16 0.0491 0.0490

Moon 119724-04-05 21:19 G 45449448.25 45449448.39 45449448.54 0.2654 0.0268

Earth 119724-04-05 21:19 G 45449448.25 45449448.39 45449448.54 0.2660 0.0355 *

Mars 119724-12-30 11:58 G 45449716.92 45449717.00 45449717.08 0.1609 0.1391

Venus 119725-05-16 17:43 G 45449854.14 45449854.24 45449854.35 0.3717 0.0479

Saturn 119725-08-10 12:12 G 45449939.89 45449940.01 45449940.13 0.0278 0.0160

Saturn 119725-11-07 01:38 G 45450028.42 45450028.57 45450028.71 0.0278 0.0009

Mars 119725-11-10 21:34 G 45450032.39 45450032.40 45450032.42 0.1934 0.1912

Saturn 119726-02-03 14:36 G 45450116.99 45450117.11 45450117.23 0.0279 0.0149

Jupiter 119726-02-03 21:05 G 45450117.25 45450117.38 45450117.52 0.0540 0.0132

Uranus 119728-08-03 17:29 G 45451029.16 45451029.23 45451029.32 0.0140 0.0121

Earth 119728-09-28 07:24 G 45451084.73 45451084.81 45451084.89 0.2676 0.2001

Moon 119728-09-28 08:07 G 45451084.75 45451084.84 45451084.92 0.2681 0.1866 *

Uranus 119728-10-30 23:29 G 45451117.37 45451117.48 45451117.61 0.0140 0.0098

Uranus 119729-01-27 05:43 G 45451205.60 45451205.74 45451205.88 0.0140 0.0073

Uranus 119729-04-25 11:43 G 45451293.83 45451293.99 45451294.15 0.0140 0.0049

Uranus 119729-07-22 17:43 G 45451382.08 45451382.24 45451382.41 0.0140 0.0025

Uranus 119729-10-18 23:58 G 45451470.33 45451470.50 45451470.67 0.0140 0.0002

Uranus 119730-01-15 05:58 G 45451558.58 45451558.75 45451558.92 0.0140 0.0024

Uranus 119730-04-13 12:12 G 45451646.85 45451647.01 45451647.18 0.0140 0.0048

Uranus 119730-07-10 18:26 G 45451735.13 45451735.27 45451735.42 0.0140 0.0073

Uranus 119730-10-07 00:41 G 45451823.41 45451823.53 45451823.66 0.0140 0.0098

Venus 119730-11-30 11:14 G 45451877.88 45451877.97 45451878.06 0.3713 0.2236

Uranus 119731-01-03 06:55 G 45451911.72 45451911.79 45451911.88 0.0140 0.0123

Jupiter 119732-03-16 18:41 G 45452350.17 45452350.28 45452350.39 0.0488 0.0365

Jupiter 119732-06-14 15:19 G 45452440.01 45452440.14 45452440.27 0.0491 0.0312

Jupiter 119737-11-22 23:58 G 45454427.39 45454427.50 45454427.62 0.0540 0.0308

Venus 119737-12-28 03:05 G 45454462.51 45454462.63 45454462.74 0.3655 0.2078

Jupiter 119738-02-20 12:41 G 45454516.95 45454517.03 45454517.11 0.0537 0.0429

Saturn 119739-11-29 03:48 G 45455163.60 45455163.66 45455163.74 0.0280 0.0249

Saturn 119740-02-25 22:17 G 45455252.26 45455252.43 45455252.59 0.0280 0.0066

Saturn 119740-05-24 16:46 G 45455341.05 45455341.20 45455341.35 0.0280 0.0119

Earth 119741-10-01 02:50 G 45455835.50 45455835.62 45455835.74 0.2674 0.0087

Moon 119741-10-01 03:19 G 45455835.53 45455835.64 45455835.76 0.2669 0.0109 *

Venus 119743-07-14 05:00 G 45456486.58 45456486.71 45456486.84 0.3659 0.1169

Jupiter 119744-04-02 15:48 G 45456750.00 45456750.16 45456750.32 0.0490 0.0145

Mars 119745-09-18 05:14 G 45457283.60 45457283.72 45457283.85 0.1618 0.0991

Mars 119746-07-30 07:24 G 45457598.71 45457598.81 45457598.92 0.1922 0.0906

Jupiter 119749-09-11 02:22 G 45458737.55 45458737.60 45458737.65 0.0540 0.0496

Jupiter 119749-12-09 15:34 G 45458827.03 45458827.15 45458827.27 0.0538 0.0252

Moon 119754-10-03 21:48 G 45460586.32 45460586.41 45460586.49 0.2666 0.1756

Earth 119754-10-03 22:02 G 45460586.34 45460586.42 45460586.51 0.2672 0.1780 *

Saturn 119754-12-28 12:26 G 45460671.94 45460672.02 45460672.11 0.0279 0.0221

Mars 119755-02-08 08:36 G 45460713.70 45460713.86 45460714.02 0.1613 0.0139

Saturn 119755-03-27 01:53 G 45460760.44 45460760.58 45460760.72 0.0279 0.0064

Saturn 119755-06-23 15:05 G 45460848.99 45460849.13 45460849.26 0.0279 0.0091

Saturn 119755-09-20 03:48 G 45460937.60 45460937.66 45460937.74 0.0279 0.0244

Mars 119755-12-20 14:50 G 45461029.00 45461029.12 45461029.24 0.1928 0.0396

Jupiter 119756-01-20 16:31 G 45461060.02 45461060.19 45461060.35 0.0490 0.0026

Moon 119757-04-04 00:26 G 45461499.42 45461499.52 45461499.61 0.2654 0.1969

Earth 119757-04-04 01:24 G 45461499.46 45461499.56 45461499.66 0.2658 0.1851 *

Jupiter 119761-09-27 17:58 G 45463137.11 45463137.25 45463137.38 0.0538 0.0069

Neptune 119763-11-27 05:00 G 45463927.69 45463927.71 45463927.75 0.0088 0.0086

Neptune 119764-02-23 06:41 G 45464015.73 45464015.78 45464015.86 0.0088 0.0079

Neptune 119764-05-21 08:50 G 45464103.78 45464103.87 45464103.95 0.0088 0.0072

Mars 119764-06-30 12:26 G 45464143.92 45464144.02 45464144.12 0.1610 0.1232

Neptune 119764-08-17 10:17 G 45464191.84 45464191.93 45464192.04 0.0088 0.0065

Neptune 119764-11-13 12:12 G 45464279.90 45464280.01 45464280.12 0.0088 0.0058

Neptune 119765-02-09 13:53 G 45464367.96 45464368.08 45464368.20 0.0088 0.0050

Neptune 119765-05-08 15:34 G 45464456.03 45464456.15 45464456.28 0.0088 0.0043

Mars 119765-05-11 21:48 G 45464459.36 45464459.41 45464459.46 0.1933 0.1756

Neptune 119765-08-04 17:14 G 45464544.09 45464544.22 45464544.35 0.0088 0.0036

Neptune 119765-10-31 18:55 G 45464632.16 45464632.29 45464632.43 0.0088 0.0029

Neptune 119766-01-27 20:36 G 45464720.22 45464720.36 45464720.50 0.0088 0.0022

Neptune 119766-04-25 22:17 G 45464808.29 45464808.43 45464808.57 0.0088 0.0015

Neptune 119766-07-22 23:58 G 45464896.36 45464896.50 45464896.64 0.0088 0.0008

Neptune 119766-10-19 01:38 G 45464984.42 45464984.57 45464984.71 0.0088 0.0002

Neptune 119767-01-15 03:05 G 45465072.49 45465072.63 45465072.78 0.0088 0.0007

Neptune 119767-04-13 04:46 G 45465160.56 45465160.70 45465160.85 0.0088 0.0012

Neptune 119767-07-10 06:26 G 45465248.63 45465248.77 45465248.91 0.0088 0.0019

Neptune 119767-10-06 07:53 G 45465336.70 45465336.83 45465336.98 0.0088 0.0026

Jupiter 119767-11-08 17:00 G 45465370.06 45465370.21 45465370.36 0.0489 0.0188

Neptune 119768-01-02 09:34 G 45465424.77 45465424.90 45465425.04 0.0088 0.0033

Neptune 119768-03-30 11:14 G 45465512.85 45465512.97 45465513.10 0.0088 0.0040

Neptune 119768-06-26 12:41 G 45465600.92 45465601.03 45465601.16 0.0088 0.0047

Neptune 119768-09-22 14:22 G 45465688.99 45465689.10 45465689.22 0.0088 0.0053

Neptune 119768-12-19 16:02 G 45465777.07 45465777.17 45465777.28 0.0088 0.0060

Neptune 119769-03-17 17:29 G 45465865.15 45465865.23 45465865.33 0.0088 0.0067

Neptune 119769-06-13 18:55 G 45465953.23 45465953.29 45465953.38 0.0088 0.0074

Saturn 119769-07-14 22:31 G 45465984.29 45465984.44 45465984.60 0.0280 0.0116

Neptune 119769-09-09 20:50 G 45466041.31 45466041.37 45466041.43 0.0088 0.0080

Saturn 119769-10-11 17:00 G 45466073.05 45466073.21 45466073.38 0.0280 0.0069

Neptune 119769-12-06 22:17 G 45466129.41 45466129.43 45466129.46 0.0088 0.0086

Saturn 119770-01-08 11:43 G 45466161.93 45466161.99 45466162.06 0.0280 0.0257

Moon 119770-04-07 02:22 G 45466250.47 45466250.60 45466250.74 0.2665 0.0723

Earth 119770-04-07 03:19 G 45466250.51 45466250.64 45466250.78 0.2660 0.0920 *

Venus 119770-11-22 04:31 G 45466479.61 45466479.69 45466479.76 0.3723 0.2679

Uranus 119771-08-11 05:29 G 45466741.70 45466741.73 45466741.79 0.0138 0.0131

Uranus 119771-11-07 10:02 G 45466829.83 45466829.92 45466830.01 0.0138 0.0110

Uranus 119772-02-03 14:07 G 45466917.98 45466918.09 45466918.20 0.0138 0.0090

Uranus 119772-05-01 18:12 G 45467006.14 45467006.26 45467006.39 0.0138 0.0070

Uranus 119772-07-28 22:31 G 45467094.30 45467094.44 45467094.58 0.0138 0.0050

Uranus 119772-10-25 02:36 G 45467182.47 45467182.61 45467182.75 0.0138 0.0030

Uranus 119773-01-21 06:41 G 45467270.64 45467270.78 45467270.92 0.0138 0.0010

Uranus 119773-04-19 10:46 G 45467358.80 45467358.95 45467359.09 0.0138 0.0010

Uranus 119773-07-16 14:36 G 45467446.98 45467447.11 45467447.26 0.0138 0.0031

Jupiter 119773-07-16 19:38 G 45467447.18 45467447.32 45467447.45 0.0539 0.0132 *

Uranus 119773-10-12 18:41 G 45467535.15 45467535.28 45467535.42 0.0138 0.0050

Uranus 119774-01-08 22:31 G 45467623.33 45467623.44 45467623.58 0.0138 0.0070

Uranus 119774-04-07 02:36 G 45467711.51 45467711.61 45467711.73 0.0138 0.0089

Uranus 119774-07-04 06:41 G 45467799.69 45467799.78 45467799.87 0.0138 0.0108

Moon 119774-09-29 12:26 G 45467886.92 45467887.02 45467887.11 0.2669 0.1609

Earth 119774-09-29 12:26 G 45467886.93 45467887.02 45467887.12 0.2676 0.1594 *

Uranus 119774-09-30 10:17 G 45467887.89 45467887.93 45467888.00 0.0138 0.0128

Venus 119776-06-06 22:17 G 45468503.32 45468503.43 45468503.54 0.3719 0.0790

Jupiter 119779-08-27 17:43 G 45469680.13 45469680.24 45469680.36 0.0488 0.0350

Jupiter 119779-11-25 14:36 G 45469769.98 45469770.11 45469770.23 0.0490 0.0328

Venus 119781-12-21 15:48 G 45470527.06 45470527.16 45470527.27 0.3716 0.1041

Saturn 119784-05-16 15:05 G 45471404.08 45471404.13 45471404.19 0.0278 0.0255

Saturn 119784-08-13 04:31 G 45471492.56 45471492.69 45471492.83 0.0278 0.0098

Saturn 119784-11-09 17:43 G 45471581.10 45471581.24 45471581.38 0.0278 0.0056

Saturn 119785-02-06 06:41 G 45471669.69 45471669.78 45471669.87 0.0279 0.0208

Mars 119785-03-19 05:43 G 45471710.63 45471710.74 45471710.85 0.1618 0.1163

Jupiter 119785-05-04 22:02 G 45471757.31 45471757.42 45471757.54 0.0540 0.0314

Jupiter 119785-08-02 11:00 G 45471846.87 45471846.96 45471847.04 0.0538 0.0425

Mars 119786-01-28 07:38 G 45472025.72 45472025.82 45472025.92 0.1922 0.1062

Venus 119787-07-07 09:05 G 45472550.81 45472550.88 45472550.95 0.3712 0.2794

Moon 119787-10-02 07:10 G 45472637.68 45472637.80 45472637.92 0.2672 0.0195

Earth 119787-10-02 07:53 G 45472637.72 45472637.83 45472637.95 0.2673 0.0318 *

Jupiter 119791-09-13 14:22 G 45474079.95 45474080.10 45474080.26 0.0490 0.0152

Venus 119794-08-04 03:05 G 45475135.50 45475135.63 45475135.76 0.3656 0.1079

Mars 119794-08-09 09:19 G 45475140.73 45475140.89 45475141.05 0.1614 0.0045

Mars 119795-06-20 14:50 G 45475456.00 45475456.12 45475456.24 0.1928 0.0253

Jupiter 119797-02-21 00:55 G 45476067.48 45476067.54 45476067.59 0.0541 0.0493

Pluto 119797-04-14 11:43 G 45476119.93 45476119.99 45476120.09 0.0059 0.0054

Jupiter 119797-05-21 14:07 G 45476156.97 45476157.09 45476157.21 0.0538 0.0257

Pluto 119797-07-11 13:24 G 45476207.94 45476208.06 45476208.19 0.0059 0.0045

Pluto 119797-10-07 14:22 G 45476295.97 45476296.10 45476296.28 0.0059 0.0037

Pluto 119798-01-03 16:02 G 45476384.01 45476384.17 45476384.35 0.0059 0.0028

Pluto 119798-04-01 17:14 G 45476472.05 45476472.22 45476472.42 0.0059 0.0020

Pluto 119798-06-28 18:55 G 45476560.10 45476560.29 45476560.48 0.0059 0.0011

Pluto 119798-09-24 20:07 G 45476648.15 45476648.34 45476648.54 0.0059 0.0003

Saturn 119798-12-01 21:05 G 45476716.26 45476716.38 45476716.51 0.0280 0.0184

Pluto 119798-12-21 21:34 G 45476736.21 45476736.40 45476736.60 0.0059 0.0006

Saturn 119799-02-28 15:19 G 45476804.97 45476805.14 45476805.31 0.0280 0.0004

Pluto 119799-03-19 23:00 G 45476824.27 45476824.46 45476824.65 0.0059 0.0014

Saturn 119799-05-28 09:48 G 45476893.79 45476893.91 45476894.04 0.0280 0.0186

Pluto 119799-06-15 23:58 G 45476912.33 45476912.50 45476912.70 0.0059 0.0024

Pluto 119799-09-12 01:10 G 45477000.41 45477000.55 45477000.74 0.0059 0.0033

Pluto 119799-12-09 02:50 G 45477088.49 45477088.62 45477088.77 0.0059 0.0041

Venus 119800-02-18 05:14 G 45477159.61 45477159.72 45477159.83 0.3660 0.2204

Pluto 119800-03-07 04:02 G 45477176.58 45477176.67 45477176.80 0.0059 0.0050

Pluto 119800-06-03 05:14 G 45477264.71 45477264.72 45477264.78 0.0059 0.0059

Moon 119800-10-05 02:50 G 45477388.55 45477388.62 45477388.69 0.2678 0.2146

Earth 119800-10-05 03:05 G 45477388.56 45477388.63 45477388.70 0.2671 0.2167 *

Earth 119803-04-06 07:24 G 45478301.68 45478301.81 45478301.93 0.2658 0.1306

Moon 119803-04-06 07:38 G 45478301.70 45478301.82 45478301.95 0.2665 0.1250 *

Jupiter 119803-07-03 15:05 G 45478389.96 45478390.13 45478390.30 0.0490 0.0014

Mars 119803-12-31 12:55 G 45478570.92 45478571.04 45478571.16 0.1610 0.1058

Mars 119804-11-10 21:48 G 45478886.34 45478886.41 45478886.47 0.1933 0.1617

Jupiter 119809-03-10 17:00 G 45480467.07 45480467.21 45480467.34 0.0538 0.0081

Uranus 119812-05-28 18:41 G 45481642.27 45481642.28 45481642.30 0.0140 0.0139

Uranus 119812-08-25 00:41 G 45481730.44 45481730.53 45481730.63 0.0140 0.0116

Uranus 119812-11-21 06:26 G 45481818.65 45481818.77 45481818.91 0.0140 0.0092

Uranus 119813-02-17 12:26 G 45481906.88 45481907.02 45481907.18 0.0140 0.0068

Uranus 119813-05-16 18:41 G 45481995.12 45481995.28 45481995.44 0.0140 0.0044

Uranus 119813-08-13 00:41 G 45482083.36 45482083.53 45482083.70 0.0140 0.0020

Uranus 119813-11-09 06:55 G 45482171.62 45482171.79 45482171.96 0.0140 0.0005

Saturn 119814-01-01 04:46 G 45482224.58 45482224.70 45482224.82 0.0279 0.0159

Uranus 119814-02-05 12:55 G 45482259.88 45482260.04 45482260.21 0.0140 0.0029

Saturn 119814-03-30 17:58 G 45482313.11 45482313.25 45482313.40 0.0279 0.0005

Uranus 119814-05-04 19:10 G 45482348.14 45482348.30 45482348.46 0.0140 0.0054

Saturn 119814-06-27 07:10 G 45482401.68 45482401.80 45482401.92 0.0279 0.0150

Uranus 119814-08-01 01:10 G 45482436.42 45482436.55 45482436.71 0.0140 0.0079

Uranus 119814-10-28 07:24 G 45482524.71 45482524.81 45482524.94 0.0140 0.0104

Uranus 119815-01-24 13:38 G 45482613.02 45482613.07 45482613.15 0.0140 0.0129

Jupiter 119815-04-21 15:48 G 45482700.01 45482700.16 45482700.31 0.0489 0.0179

Earth 119816-04-08 09:19 G 45483052.77 45483052.89 45483053.01 0.2661 0.1482

Moon 119816-04-08 10:31 G 45483052.83 45483052.94 45483053.05 0.2659 0.1669 *

Moon 119820-09-30 17:00 G 45484689.11 45484689.21 45484689.32 0.2681 0.1313

Earth 119820-09-30 17:29 G 45484689.13 45484689.23 45484689.34 0.2675 0.1190 *

Jupiter 119820-12-27 19:10 G 45484777.17 45484777.30 45484777.44 0.0539 0.0108

Mars 119824-09-18 06:12 G 45486137.67 45486137.76 45486137.85 0.1618 0.1325

Mars 119825-07-30 07:38 G 45486452.73 45486452.82 45486452.92 0.1922 0.1220

Jupiter 119827-02-07 16:31 G 45487010.08 45487010.19 45487010.31 0.0488 0.0340

Jupiter 119827-05-08 13:24 G 45487099.94 45487100.06 45487100.18 0.0491 0.0339

Venus 119827-06-30 02:36 G 45487152.51 45487152.61 45487152.70 0.3722 0.2077

Saturn 119828-04-20 21:05 G 45487448.30 45487448.38 45487448.47 0.0281 0.0237

Saturn 119828-07-18 15:19 G 45487536.98 45487537.14 45487537.31 0.0280 0.0054

Saturn 119828-10-15 09:48 G 45487625.77 45487625.91 45487626.06 0.0280 0.0132

Jupiter 119832-10-15 20:36 G 45489087.25 45489087.36 45489087.47 0.0540 0.0313

Venus 119833-01-12 20:07 G 45489176.24 45489176.34 45489176.45 0.3719 0.0241

Jupiter 119833-01-13 09:19 G 45489176.81 45489176.89 45489176.98 0.0537 0.0426

Earth 119833-10-03 12:55 G 45489439.93 45489440.04 45489440.15 0.2673 0.0705

Moon 119833-10-03 13:38 G 45489439.96 45489440.07 45489440.18 0.2677 0.0853 *

Mars 119834-02-08 09:48 G 45489567.75 45489567.91 45489568.07 0.1614 0.0205

Mars 119834-12-20 14:50 G 45489883.00 45489883.12 45489883.24 0.1927 0.0114

Venus 119838-07-29 13:38 G 45491199.97 45491200.07 45491200.17 0.3715 0.1609

Jupiter 119839-02-24 13:38 G 45491409.92 45491410.07 45491410.23 0.0490 0.0169

Saturn 119843-05-21 07:38 G 45492956.72 45492956.82 45492956.92 0.0278 0.0191

Mars 119843-07-01 13:24 G 45492997.93 45492998.06 45492998.19 0.1610 0.0895

Saturn 119843-08-17 20:50 G 45493045.23 45493045.37 45493045.52 0.0278 0.0036

Saturn 119843-11-14 10:02 G 45493133.79 45493133.92 45493134.05 0.0278 0.0118

Saturn 119844-02-10 22:46 G 45493222.43 45493222.45 45493222.49 0.0279 0.0270

Venus 119844-02-12 06:55 G 45493223.75 45493223.79 45493223.84 0.3711 0.3355

Mars 119844-05-11 21:48 G 45493313.33 45493313.41 45493313.49 0.1933 0.1459

Jupiter 119844-08-03 23:00 G 45493397.41 45493397.46 45493397.51 0.0541 0.0500

Jupiter 119844-11-01 12:12 G 45493486.89 45493487.01 45493487.13 0.0538 0.0252

Venus 119845-08-26 01:38 G 45493784.51 45493784.57 45493784.64 0.3653 0.3212

Earth 119846-10-06 08:07 G 45494190.81 45494190.84 45494190.87 0.2671 0.2555

Moon 119846-10-06 08:22 G 45494190.83 45494190.85 45494190.87 0.2665 0.2607 *

Neptune 119847-10-25 15:48 G 45494575.15 45494575.16 45494575.21 0.0089 0.0087

Neptune 119848-01-21 18:26 G 45494663.21 45494663.27 45494663.37 0.0089 0.0079

Neptune 119848-04-18 21:34 G 45494751.30 45494751.40 45494751.51 0.0089 0.0070

Neptune 119848-07-16 00:12 G 45494839.40 45494839.51 45494839.64 0.0089 0.0062

Neptune 119848-10-12 03:05 G 45494927.50 45494927.63 45494927.77 0.0089 0.0053

Neptune 119849-01-08 05:43 G 45495015.60 45495015.74 45495015.90 0.0089 0.0045

Neptune 119849-04-06 08:22 G 45495103.71 45495103.85 45495104.02 0.0089 0.0037

Moon 119849-04-06 13:10 G 45495103.91 45495104.05 45495104.19 0.2652 0.0775 *

Earth 119849-04-06 13:10 G 45495103.92 45495104.05 45495104.19 0.2659 0.0752 *

Neptune 119849-07-03 11:29 G 45495191.82 45495191.98 45495192.15 0.0089 0.0028

Neptune 119849-09-29 14:22 G 45495279.93 45495280.10 45495280.27 0.0089 0.0019

Neptune 119849-12-26 17:00 G 45495368.04 45495368.21 45495368.39 0.0089 0.0011

Neptune 119850-03-24 20:07 G 45495456.16 45495456.34 45495456.51 0.0089 0.0003

Neptune 119850-06-20 22:46 G 45495544.28 45495544.45 45495544.63 0.0089 0.0007

Neptune 119850-09-17 01:38 G 45495632.40 45495632.57 45495632.75 0.0089 0.0015

Jupiter 119850-12-13 13:38 G 45495719.91 45495720.07 45495720.24 0.0489 0.0014

Neptune 119850-12-14 04:31 G 45495720.52 45495720.69 45495720.86 0.0089 0.0024

Venus 119851-03-12 03:19 G 45495808.50 45495808.64 45495808.78 0.3657 0.0092

Neptune 119851-03-12 07:10 G 45495808.65 45495808.80 45495808.98 0.0089 0.0033 *

Neptune 119851-06-08 10:17 G 45495896.78 45495896.93 45495897.09 0.0089 0.0042

Neptune 119851-09-04 13:10 G 45495984.91 45495985.05 45495985.20 0.0089 0.0050

Neptune 119851-12-01 16:02 G 45496073.04 45496073.17 45496073.31 0.0089 0.0059

Neptune 119852-02-27 18:55 G 45496161.19 45496161.29 45496161.41 0.0089 0.0068

Neptune 119852-05-25 21:48 G 45496249.33 45496249.41 45496249.51 0.0089 0.0077

Neptune 119852-08-22 00:41 G 45496337.50 45496337.53 45496337.59 0.0089 0.0086

Moon 119853-09-29 03:34 G 45496740.62 45496740.65 45496740.68 0.2682 0.2579

Uranus 119855-09-01 12:55 G 45497442.99 45497443.04 45497443.11 0.0138 0.0125

Uranus 119855-11-28 17:29 G 45497531.13 45497531.23 45497531.32 0.0138 0.0104

Uranus 119856-02-24 21:34 G 45497619.28 45497619.40 45497619.52 0.0138 0.0084

Uranus 119856-05-23 01:38 G 45497707.44 45497707.57 45497707.70 0.0138 0.0064

Uranus 119856-08-19 05:43 G 45497795.61 45497795.74 45497795.88 0.0138 0.0044

Jupiter 119856-08-20 15:19 G 45497797.01 45497797.14 45497797.28 0.0539 0.0082

Venus 119856-09-25 05:43 G 45497832.68 45497832.74 45497832.80 0.3662 0.3286

Uranus 119856-11-15 10:02 G 45497883.77 45497883.92 45497884.06 0.0138 0.0024

Uranus 119857-02-11 14:07 G 45497971.94 45497972.09 45497972.23 0.0138 0.0005

Uranus 119857-05-10 18:12 G 45498060.11 45498060.26 45498060.40 0.0138 0.0016

Uranus 119857-08-06 22:02 G 45498148.28 45498148.42 45498148.56 0.0138 0.0036

Uranus 119857-11-03 02:07 G 45498236.46 45498236.59 45498236.72 0.0138 0.0055

Saturn 119857-12-05 14:07 G 45498268.94 45498269.09 45498269.25 0.0280 0.0119

Uranus 119858-01-30 06:12 G 45498324.64 45498324.76 45498324.88 0.0138 0.0075

Saturn 119858-03-04 08:36 G 45498357.70 45498357.86 45498358.02 0.0280 0.0066

Uranus 119858-04-28 10:02 G 45498412.82 45498412.92 45498413.03 0.0138 0.0094

Saturn 119858-06-01 03:19 G 45498446.57 45498446.64 45498446.71 0.0280 0.0253

Uranus 119858-07-25 13:53 G 45498501.01 45498501.08 45498501.17 0.0138 0.0114

Uranus 119858-10-21 17:58 G 45498589.21 45498589.25 45498589.29 0.0139 0.0133

Moon 119862-04-09 13:53 G 45499854.98 45499855.08 45499855.18 0.2659 0.1864

Earth 119862-04-09 15:19 G 45499855.05 45499855.14 45499855.23 0.2661 0.2056 *

Jupiter 119862-10-01 14:22 G 45500029.95 45500030.10 45500030.26 0.0489 0.0170

Mars 119864-03-19 06:55 G 45500564.74 45500564.79 45500564.84 0.1618 0.1510

Mars 119865-01-28 07:38 G 45500879.74 45500879.82 45500879.90 0.1922 0.1352

Earth 119866-10-01 22:31 G 45501491.33 45501491.44 45501491.56 0.2675 0.0792

Moon 119866-10-01 23:14 G 45501491.36 45501491.47 45501491.58 0.2669 0.0732 *

Jupiter 119868-06-08 17:58 G 45502107.12 45502107.25 45502107.39 0.0539 0.0100

Saturn 119872-10-07 07:38 G 45503688.77 45503688.82 45503688.88 0.0278 0.0253

Saturn 119873-01-03 21:05 G 45503777.25 45503777.38 45503777.52 0.0278 0.0096

Saturn 119873-04-02 10:17 G 45503865.79 45503865.93 45503866.07 0.0279 0.0059

Saturn 119873-06-29 23:29 G 45503954.39 45503954.48 45503954.57 0.0279 0.0211

Mars 119873-08-09 10:17 G 45503994.77 45503994.93 45503995.08 0.1614 0.0369

Mars 119874-06-20 15:05 G 45504310.01 45504310.13 45504310.24 0.1928 0.0090

Jupiter 119874-07-20 15:05 G 45504340.02 45504340.13 45504340.26 0.0489 0.0333

Jupiter 119874-10-18 11:58 G 45504429.88 45504430.00 45504430.12 0.0491 0.0347

Venus 119878-07-21 06:41 G 45505801.74 45505801.78 45505801.82 0.3725 0.3379

Moon 119879-10-04 17:14 G 45506242.12 45506242.22 45506242.33 0.2669 0.1017

Earth 119879-10-04 17:58 G 45506242.14 45506242.25 45506242.36 0.2673 0.1104 *

Jupiter 119880-03-27 20:07 G 45506417.23 45506417.34 45506417.46 0.0540 0.0289

Jupiter 119880-06-25 08:50 G 45506506.80 45506506.87 45506506.95 0.0537 0.0448

Mars 119882-12-30 13:53 G 45507424.94 45507425.08 45507425.22 0.1610 0.0736

Mars 119883-11-10 22:02 G 45507740.33 45507740.42 45507740.51 0.1933 0.1300

Venus 119884-02-04 00:26 G 45507825.42 45507825.52 45507825.63 0.3721 0.1464

Jupiter 119886-08-06 12:26 G 45508739.87 45508740.02 45508740.18 0.0490 0.0178

Saturn 119887-04-24 14:07 G 45509000.96 45509001.09 45509001.22 0.0281 0.0174

Saturn 119887-07-22 08:22 G 45509089.68 45509089.85 45509090.02 0.0280 0.0010

Saturn 119887-10-19 02:50 G 45509178.51 45509178.62 45509178.75 0.0280 0.0197

Venus 119889-08-19 18:12 G 45509849.15 45509849.26 45509849.37 0.3717 0.0395

Jupiter 119892-01-14 21:19 G 45510727.34 45510727.39 45510727.44 0.0541 0.0499

Jupiter 119892-04-13 10:46 G 45510816.83 45510816.95 45510817.07 0.0538 0.0252

Pluto 119894-06-22 14:50 G 45511617.10 45511617.12 45511617.17 0.0085 0.0081

Pluto 119894-09-18 16:17 G 45511705.10 45511705.18 45511705.27 0.0085 0.0064

Pluto 119894-12-15 17:29 G 45511793.13 45511793.23 45511793.35 0.0085 0.0046

Venus 119895-03-05 11:43 G 45511872.90 45511872.99 45511873.07 0.3714 0.2186

Pluto 119895-03-13 18:41 G 45511881.17 45511881.28 45511881.41 0.0085 0.0029

Moon 119895-04-07 18:41 G 45511906.14 45511906.28 45511906.42 0.2665 0.0321

Earth 119895-04-07 19:10 G 45511906.16 45511906.30 45511906.44 0.2659 0.0206 *

Pluto 119895-06-09 20:07 G 45511969.21 45511969.34 45511969.47 0.0085 0.0012

Pluto 119895-09-05 21:19 G 45512057.26 45512057.39 45512057.53 0.0085 0.0006

Pluto 119895-12-02 22:31 G 45512145.32 45512145.44 45512145.57 0.0085 0.0023

Pluto 119896-02-28 23:43 G 45512233.38 45512233.49 45512233.61 0.0085 0.0040

Pluto 119896-05-27 00:55 G 45512321.45 45512321.54 45512321.64 0.0084 0.0056

Uranus 119896-06-18 01:53 G 45512343.54 45512343.58 45512343.64 0.0140 0.0133

Pluto 119896-08-23 01:53 G 45512409.53 45512409.58 45512409.66 0.0084 0.0074

Uranus 119896-09-14 07:53 G 45512431.73 45512431.83 45512431.94 0.0140 0.0109

Uranus 119896-12-11 13:38 G 45512519.95 45512520.07 45512520.21 0.0140 0.0086

Uranus 119897-03-09 19:38 G 45512608.18 45512608.32 45512608.48 0.0140 0.0062

Uranus 119897-06-06 01:53 G 45512696.42 45512696.58 45512696.74 0.0140 0.0038

Uranus 119897-09-02 07:53 G 45512784.66 45512784.83 45512785.00 0.0140 0.0014

Uranus 119897-11-29 14:07 G 45512872.92 45512873.09 45512873.26 0.0140 0.0011

Uranus 119898-02-25 20:07 G 45512961.18 45512961.34 45512961.51 0.0140 0.0036

Uranus 119898-05-25 02:22 G 45513049.45 45513049.60 45513049.76 0.0140 0.0060

Jupiter 119898-05-25 12:55 G 45513049.87 45513050.04 45513050.21 0.0489 0.0010

Uranus 119898-08-21 08:36 G 45513137.72 45513137.86 45513138.00 0.0140 0.0085

Uranus 119898-11-17 14:50 G 45513226.02 45513226.12 45513226.23 0.0140 0.0110

Uranus 119899-02-13 21:05 G 45513314.34 45513314.38 45513314.43 0.0140 0.0135

Moon 119899-09-30 07:38 G 45513542.76 45513542.82 45513542.87 0.2671 0.2337

Earth 119899-09-30 08:07 G 45513542.78 45513542.84 45513542.90 0.2677 0.2315 *

Venus 119902-04-03 01:53 G 45514457.47 45514457.58 45514457.69 0.3654 0.2233

Saturn 119902-05-25 00:12 G 45514509.38 45514509.51 45514509.64 0.0278 0.0126

Saturn 119902-08-21 13:38 G 45514597.92 45514598.07 45514598.21 0.0278 0.0031

Saturn 119902-11-18 02:36 G 45514686.50 45514686.61 45514686.72 0.0279 0.0182

Jupiter 119904-02-01 13:24 G 45515126.92 45515127.06 45515127.19 0.0539 0.0073

Mars 119904-07-30 07:38 G 45515306.75 45515306.82 45515306.90 0.1922 0.1503

Venus 119907-10-18 03:34 G 45516481.52 45516481.65 45516481.79 0.3658 0.0965

Earth 119908-04-10 21:05 G 45516657.36 45516657.38 45516657.40 0.2661 0.2621

Jupiter 119910-03-14 12:55 G 45517359.89 45517360.04 45517360.20 0.0489 0.0164

Moon 119912-10-03 03:05 G 45518293.51 45518293.63 45518293.74 0.2678 0.0547

Earth 119912-10-03 03:48 G 45518293.54 45518293.66 45518293.77 0.2674 0.0398 *

Mars 119913-02-08 10:46 G 45518421.80 45518421.95 45518422.10 0.1614 0.0544

Mars 119913-12-20 15:05 G 45518737.01 45518737.13 45518737.25 0.1927 0.0202

Jupiter 119915-11-20 16:17 G 45519437.05 45519437.18 45519437.32 0.0540 0.0102

Saturn 119916-09-11 13:38 G 45519732.98 45519733.07 45519733.16 0.0281 0.0231

Saturn 119916-12-09 07:53 G 45519821.66 45519821.83 45519821.99 0.0280 0.0049

Saturn 119917-03-08 02:22 G 45519910.45 45519910.60 45519910.74 0.0280 0.0137

Jupiter 119921-12-31 13:38 G 45521669.96 45521670.07 45521670.20 0.0488 0.0326

Jupiter 119922-03-31 10:31 G 45521759.82 45521759.94 45521760.06 0.0490 0.0353

Mars 119922-07-01 14:22 G 45521851.96 45521852.10 45521852.25 0.1610 0.0564

Mars 119923-05-12 21:48 G 45522167.32 45522167.41 45522167.51 0.1933 0.1168

Earth 119925-10-05 23:00 G 45523044.36 45523044.46 45523044.56 0.2672 0.1493

Moon 119925-10-05 23:14 G 45523044.38 45523044.47 45523044.57 0.2679 0.1592 *

Jupiter 119927-09-08 18:55 G 45523747.17 45523747.29 45523747.41 0.0540 0.0283

Jupiter 119927-12-07 07:38 G 45523836.75 45523836.82 45523836.89 0.0537 0.0453

Earth 119928-04-05 23:14 G 45523957.41 45523957.47 45523957.54 0.2657 0.2363

Moon 119928-04-06 00:26 G 45523957.44 45523957.52 45523957.60 0.2661 0.2131 *

Neptune 119928-08-25 04:31 G 45524098.65 45524098.69 45524098.75 0.0088 0.0083

Neptune 119928-11-21 06:12 G 45524186.70 45524186.76 45524186.85 0.0088 0.0076

Neptune 119929-02-17 07:53 G 45524274.75 45524274.83 45524274.93 0.0088 0.0069

Neptune 119929-05-16 09:48 G 45524362.81 45524362.91 45524363.02 0.0088 0.0061

Neptune 119929-08-12 11:29 G 45524450.87 45524450.98 45524451.10 0.0088 0.0054

Neptune 119929-11-08 13:10 G 45524538.94 45524539.05 45524539.18 0.0088 0.0047

Neptune 119930-02-04 14:50 G 45524627.00 45524627.12 45524627.26 0.0088 0.0040

Neptune 119930-05-03 16:31 G 45524715.07 45524715.19 45524715.34 0.0088 0.0033

Neptune 119930-07-30 18:12 G 45524803.13 45524803.26 45524803.41 0.0088 0.0027

Neptune 119930-10-26 19:53 G 45524891.20 45524891.33 45524891.48 0.0088 0.0020

Neptune 119931-01-22 21:48 G 45524979.27 45524979.41 45524979.55 0.0088 0.0012

Neptune 119931-04-20 23:29 G 45525067.34 45525067.48 45525067.62 0.0088 0.0005

Neptune 119931-07-18 01:10 G 45525155.40 45525155.55 45525155.69 0.0088 0.0002

Saturn 119931-10-12 00:26 G 45525241.42 45525241.52 45525241.63 0.0278 0.0186

Neptune 119931-10-14 02:36 G 45525243.47 45525243.61 45525243.76 0.0088 0.0010

Saturn 119932-01-08 13:53 G 45525329.94 45525330.08 45525330.22 0.0279 0.0030

Neptune 119932-01-10 04:17 G 45525331.54 45525331.68 45525331.83 0.0088 0.0016

Saturn 119932-04-06 03:05 G 45525418.50 45525418.63 45525418.75 0.0279 0.0124

Neptune 119932-04-07 05:58 G 45525419.61 45525419.75 45525419.89 0.0088 0.0023

Saturn 119932-07-03 15:48 G 45525507.15 45525507.16 45525507.19 0.0279 0.0275

Neptune 119932-07-04 07:38 G 45525507.69 45525507.82 45525507.96 0.0088 0.0030

Neptune 119932-09-30 09:05 G 45525595.76 45525595.88 45525596.02 0.0088 0.0037

Neptune 119932-12-27 10:46 G 45525683.83 45525683.95 45525684.08 0.0088 0.0043

Neptune 119933-03-25 12:12 G 45525771.91   45525772.01   45525772.14 0.0088 0.0050

Neptune 119933-06-21 14:07 G 45525859.98   45525860.09   45525860.20 0.0088 0.0057

Neptune 119933-09-17 15:34 G 45525948.06   45525948.15   45525948.25 0.0088 0.0063

Jupiter 119933-10-19 14:36 G 45525980.10   45525980.11   45525980.13 0.0488 0.0485

Neptune 119933-12-14 17:00 G 45526036.14   45526036.21   45526036.31 0.0088 0.0070

Jupiter 119934-01-17 10:46 G 45526069.80   45526069.95   45526070.11 0.0490 0.0183

Neptune 119934-03-12 18:55 G 45526124.22   45526124.29   45526124.35 0.0088 0.0077

Neptune 119934-06-08 20:22 G 45526212.31   45526212.35   45526212.40 0.0088 0.0083

Venus   119935-02-26 04:46 G 45526474.63   45526474.70   45526474.77 0.3724 0.2755

Jupiter 119939-06-27 21:05 G 45528057.31   45528057.38   45528057.44 0.0540 0.0475

Uranus   119939-09-22 20:22 G 45528144.28   45528144.35   45528144.42 0.0138 0.0119

Jupiter 119939-09-25 10:17 G 45528146.81   45528146.93   45528147.05 0.0538 0.0274

Uranus   119939-12-20 00:26 G 45528232.43   45528232.52   45528232.63 0.0138 0.0099

Uranus   119940-03-17 04:31 G 45528320.58   45528320.69   45528320.82 0.0138 0.0079

Uranus   119940-06-13 09:05 G 45528408.74   45528408.88   45528409.01 0.0138 0.0058

Uranus   119940-09-09 13:10 G 45528496.91   45528497.05   45528497.19 0.0138 0.0038

Venus   119940-09-10 22:31 G 45528498.34   45528498.44   45528498.55 0.3720 0.0856

Uranus   119940-12-06 17:14 G 45528585.08   45528585.22   45528585.37 0.0138 0.0018

Uranus   119941-03-04 21:19 G 45528673.25   45528673.39   45528673.54 0.0138 0.0002

Earth   119941-04-09 00:55 G 45528708.40   45528708.54   45528708.68 0.2659 0.0370

Moon   119941-04-09 01:38 G 45528708.43   45528708.57   45528708.71 0.2653 0.0424 *

Uranus   119941-06-01 01:24 G 45528761.42   45528761.56   45528761.70 0.0138 0.0021

Uranus   119941-08-28 05:29 G 45528849.59   45528849.73   45528849.87 0.0138 0.0041

Uranus   119941-11-24 09:19 G 45528937.77   45528937.89   45528938.03 0.0138 0.0061

Uranus   119942-02-20 13:24 G 45529025.95   45529026.06   45529026.18 0.0138 0.0080

Uranus   119942-05-19 17:29 G 45529114.13   45529114.23   45529114.33 0.0138 0.0100

Uranus   119942-08-15 21:05 G 45529202.32   45529202.38   45529202.46 0.0138 0.0120

Uranus   119942-11-12 01:10 G 45529290.55   45529290.55   45529290.56 0.0139 0.0138

Mars   119944-01-29 07:53 G 45529733.77   45529733.83   45529733.89 0.1921 0.1665

Earth   119945-10-01 13:10 G 45530344.97   45530345.05   45530345.14 0.2676 0.1907

Moon 119945-10-01 13:24 G 45530344.98 45530345.06 45530345.15 0.2682 0.1813 *

Jupiter 119945-11-05 11:29 G 45530379.82 45530379.98 45530380.15 0.0489 0.0023

Venus 119946-03-27 16:02 G 45530522.07 45530522.17 45530522.28 0.3716 0.0995

Saturn 119946-04-28 07:24 G 45530553.66 45530553.81 45530553.96 0.0280 0.0107

Saturn 119946-07-26 01:53 G 45530642.42 45530642.58 45530642.74 0.0280 0.0078

Saturn 119946-10-22 20:36 G 45530731.31 45530731.36 45530731.41 0.0280 0.0265

Jupiter 119951-07-14 11:43 G 45532456.86 45532456.99 45532457.13 0.0539 0.0075

Venus 119951-10-11 09:34 G 45532545.83 45532545.90 45532545.97 0.3713 0.2753

Mars 119952-08-09 11:14 G 45532848.83 45532848.97 45532849.12 0.1614 0.0714

Mars 119953-06-20 15:05 G 45533164.01 45533164.13 45533164.24 0.1927 0.0341

Jupiter 119957-08-24 12:12 G 45534689.85 45534690.01 45534690.17 0.0489 0.0148

Earth 119958-10-04 08:50 G 45535095.75 45535095.87 45535095.98 0.2674 0.0097

Moon 119958-10-04 09:34 G 45535095.78 45535095.90 45535096.02 0.2673 0.0094 *

Venus 119958-11-08 02:07 G 45535130.46 45535130.59 45535130.72 0.3655 0.1242

Saturn 119961-02-28 03:48 G 45535973.57 45535973.66 45535973.75 0.0278 0.0213

Saturn 119961-05-27 17:14 G 45536062.08 45536062.22 45536062.36 0.0278 0.0058

Saturn 119961-08-24 06:12 G 45536150.63 45536150.76 45536150.90 0.0278 0.0097

Saturn 119961-11-20 19:10 G 45536239.25 45536239.30 45536239.37 0.0279 0.0249

Mars 119961-12-30 15:05 G 45536278.97 45536279.13 45536279.28 0.1610 0.0399

Mars 119962-11-10 22:02 G 45536594.32 45536594.42 45536594.52 0.1933 0.1000

Jupiter 119963-05-02 14:22 G 45536766.96 45536767.10 45536767.23 0.0540 0.0112

Venus 119964-05-24 04:02 G 45537154.55 45537154.67 45537154.78 0.3660 0.2013

Jupiter 119969-06-12 12:12 G 45538999.89 45539000.01 45539000.14 0.0488 0.0320

Jupiter 119969-09-10 08:50 G 45539089.76 45539089.87 45539089.99 0.0490 0.0357

Mars 119971-05-22 18:55 G 45539709.23 45539709.29 45539709.35 0.1607 0.1470

Moon 119971-10-07 03:48 G 45539846.58 45539846.66 45539846.74 0.2665 0.1885

Earth 119971-10-07 04:02 G 45539846.59 45539846.67 45539846.75 0.2672 0.1885 *

Moon 119974-04-07 04:17 G 45540759.58 45540759.68 45540759.77 0.2653 0.1903

Earth 119974-04-07 05:14 G 45540759.62 45540759.72 45540759.82 0.2657 0.1811 *

Jupiter 119975-02-18 17:00 G 45541077.09 45541077.21 45541077.33 0.0540 0.0290

Jupiter 119975-05-19 05:43 G 45541166.67 45541166.74 45541166.82 0.0538 0.0450

Saturn 119975-09-15 07:38 G 45541285.69 45541285.82 45541285.96 0.0281 0.0157

Saturn 119975-12-13 01:53 G 45541374.41 45541374.58 45541374.75 0.0280 0.0026

Saturn 119976-03-10 20:22 G 45541463.25 45541463.35 45541463.46 0.0280 0.0212

Uranus 119980-07-09 08:50 G 45543044.81 45543044.87 45543044.95 0.0140 0.0128

Uranus 119980-10-05 14:36 G 45543133.01 45543133.11 45543133.24 0.0140 0.0105

Uranus 119981-01-01 20:50 G 45543221.23 45543221.37 45543221.51 0.0140 0.0080

Uranus 119981-03-31 02:50 G 45543309.47 45543309.62 45543309.78 0.0140 0.0056

Jupiter 119981-03-31 13:10 G 45543310.03 45543310.05 45543310.08 0.0488 0.0479

Uranus 119981-06-27 08:50 G 45543397.71 45543397.87 45543398.04 0.0140 0.0032

Jupiter 119981-06-29 09:19 G 45543399.73 45543399.89 45543400.04 0.0490 0.0187

Uranus 119981-09-23 14:50 G 45543485.95 45543486.12 45543486.29 0.0140 0.0008

Uranus 119981-12-20 21:05 G 45543574.21 45543574.38 45543574.55 0.0140 0.0017

Uranus 119982-03-19 03:05 G 45543662.47 45543662.63 45543662.80 0.0140 0.0041

Uranus 119982-06-15 09:19 G 45543750.74 45543750.89 45543751.04 0.0140 0.0066

Uranus 119982-09-11 15:19 G 45543839.02 45543839.14 45543839.28 0.0140 0.0091

Uranus 119982-12-08 21:34 G 45543927.32 45543927.40 45543927.51 0.0140 0.0115

Mars 119983-07-30 07:38 G 45544160.78 45544160.82 45544160.86 0.1921 0.1788

Jupiter 119986-12-07 19:24 G 45545387.25 45545387.31 45545387.38 0.0541 0.0474

Jupiter 119987-03-07 08:50 G 45545476.75 45545476.87 45545476.99 0.0538 0.0276

Moon 119987-04-10 05:58 G 45545510.62 45545510.75 45545510.89 0.2664 0.0726

Earth 119987-04-10 06:55 G 45545510.66 45545510.79 45545510.92 0.2660 0.0930 *

Saturn 119990-07-18 03:48 G 45546705.65 45546705.66 45546705.70 0.0278 0.0273

Saturn 119990-10-14 17:29 G 45546794.10 45546794.23 45546794.37 0.0278 0.0116

Saturn 119991-01-11 06:55 G 45546882.65 45546882.79 45546882.93 0.0279 0.0039

Saturn 119991-04-09 19:53 G 45546971.23 45546971.33 45546971.43 0.0279 0.0192

Earth 119991-10-02 18:26 G 45547147.17 45547147.27 45547147.36 0.2676 0.1498

Moon 119991-10-02 18:26 G 45547147.17 45547147.27 45547147.37 0.2669 0.1411 *

Venus 119991-10-03 02:50 G 45547147.53 45547147.62 45547147.71 0.3723 0.2129

Mars 119992-02-08 11:43 G 45547275.86 45547275.99 45547276.13 0.1614 0.0881

Mars 119992-12-19 15:05 G 45547591.02 45547591.13 45547591.25 0.1927 0.0507

Jupiter 119993-04-17 09:48 G 45547709.74 45547709.91 45547710.07 0.0489 0.0020

Venus 119997-04-17 20:36 G 45549171.25 45549171.36 45549171.47 0.3719 0.0248

Jupiter 119998-12-24 11:14 G 45549786.84 45549786.97 45549787.11 0.0539 0.0094

121ST MILLENNIUM CE

This is a list of transits of Mercury in the 121st millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Mars 120001-06-30 15:19 G 45550705.99 45550706.14 45550706.30 0.1611 0.0238

Mars 120002-05-11 22:02 G 45551021.32 45551021.42 45551021.53 0.1932 0.0851

Venus 120002-11-01 14:07 G 45551194.99 45551195.09 45551195.19 0.3715 0.1568

Moon 120004-10-04 12:55 G 45551897.92 45551898.04 45551898.16 0.2674 0.0214

Earth 120004-10-04 13:53 G 45551897.96 45551898.08 45551898.19 0.2674 0.0427 *

Saturn 120005-02-01 07:10 G 45552017.70 45552017.80 45552017.91 0.0281 0.0215

Jupiter 120005-02-03 10:31 G 45552019.78 45552019.94 45552020.10 0.0489 0.0143

Saturn 120005-05-01 01:24 G 45552106.40 45552106.56 45552106.73 0.0280 0.0033

Saturn 120005-07-28 19:53 G 45552195.19 45552195.33 45552195.47 0.0280 0.0152

Venus 120008-05-17 07:24 G 45553218.77 45553218.81 45553218.86 0.3712 0.3324

Venus 120009-11-29 00:41 G 45553779.48 45553779.53 45553779.59 0.3652 0.3347

Jupiter 120010-10-12 12:41 G 45554096.89 45554097.03 45554097.16 0.0539 0.0112

Mars 120010-11-20 19:24 G 45554136.22 45554136.31 45554136.40 0.1607 0.1307

Neptune 120012-07-22 15:05 G 45554746.08 45554746.13 45554746.21 0.0089 0.0082

Neptune 120012-10-18 17:43 G 45554834.16 45554834.24 45554834.35 0.0089 0.0074

Neptune 120013-01-14 20:50 G 45554922.25 45554922.37 45554922.49 0.0089 0.0065

Neptune 120013-04-12 23:14 G 45555010.35 45555010.47 45555010.62 0.0089 0.0057

Neptune 120013-07-10 01:53 G 45555098.45 45555098.58 45555098.74 0.0089 0.0049

Neptune 120013-10-06 05:00 G 45555186.56 45555186.71 45555186.87 0.0089 0.0040

Neptune 120014-01-02 07:38 G 45555274.67 45555274.82 45555274.99 0.0089 0.0032

Neptune 120014-03-31 10:31 G 45555362.78 45555362.94 45555363.11 0.0089 0.0023

Neptune 120014-06-27 13:24 G 45555450.89 45555451.06 45555451.23 0.0089 0.0015

Neptune 120014-09-23 16:17 G 45555539.00 45555539.18 45555539.35 0.0089 0.0006

Neptune 120014-12-20 19:10 G 45555627.12 45555627.30 45555627.47 0.0089 0.0003

Neptune 120015-03-18 21:48 G 45555715.24 45555715.41 45555715.59 0.0089 0.0011

Neptune 120015-06-15 00:41 G 45555803.36 45555803.53 45555803.70 0.0089 0.0020

Venus 120015-06-15 02:22 G 45555803.46 45555803.60 45555803.73 0.3656 0.0264 *

Neptune 120015-09-11 03:19 G 45555891.49 45555891.64 45555891.82 0.0089 0.0029

Neptune 120015-12-08 06:26 G 45555979.61 45555979.77 45555979.93 0.0089 0.0037

Neptune 120016-03-05 09:19 G 45556067.74 45556067.89 45556068.04 0.0089 0.0046

Neptune 120016-06-01 11:58 G 45556155.88 45556156.00 45556156.15 0.0089 0.0055

Neptune 120016-08-28 14:50 G 45556244.01 45556244.12 45556244.26 0.0089 0.0064

Jupiter 120016-11-22 11:14 G 45556329.85 45556329.97 45556330.10 0.0488 0.0306

Neptune 120016-11-24 17:43 G 45556332.16 45556332.24 45556332.36 0.0089 0.0073

Jupiter 120017-02-20 07:53 G 45556419.72 45556419.83 45556419.94 0.0490 0.0371

Neptune 120017-02-20 20:36 G 45556420.31 45556420.36 45556420.45 0.0089 0.0082

Moon 120017-10-07 09:05 G 45556648.82 45556648.88 45556648.93 0.2678 0.2328

Earth 120017-10-07 09:05 G 45556648.82 45556648.88 45556648.94 0.2672 0.2277 *

Saturn 120020-03-02 20:50 G 45557526.25 45557526.37 45557526.50 0.0278 0.0142

Earth 120020-04-07 11:00 G 45557561.84 45557561.96 45557562.09 0.2658 0.1269

Moon 120020-04-07 11:43 G 45557561.86 45557561.99 45557562.11 0.2663 0.1111 *

Saturn 120020-05-30 10:17 G 45557614.79 45557614.93 45557615.08 0.0278 0.0014

Saturn 120020-08-26 23:29 G 45557703.36 45557703.48 45557703.59 0.0279 0.0167

Venus 120020-12-29 04:17 G 45557827.61 45557827.68 45557827.76 0.3661 0.3072

Jupiter 120022-07-31 14:50 G 45558407.00 45558407.12 45558407.23 0.0540 0.0302

Jupiter 120022-10-29 03:34 G 45558496.58 45558496.65 45558496.73 0.0538 0.0439

Uranus 120023-07-16 23:14 G 45558757.44 45558757.47 45558757.51 0.0138 0.0134

Uranus 120023-10-13 03:19 G 45558845.57 45558845.64 45558845.73 0.0138 0.0114

Uranus 120024-01-09 07:38 G 45558933.72 45558933.82 45558933.93 0.0138 0.0093

Uranus 120024-04-06 11:58 G 45559021.88 45559022.00 45559022.13 0.0138 0.0073

Uranus 120024-07-03 16:02 G 45559110.04 45559110.17 45559110.31 0.0138 0.0053

Uranus 120024-09-29 20:22 G 45559198.21 45559198.35 45559198.49 0.0138 0.0033

Uranus 120024-12-27 00:26 G 45559286.37 45559286.52 45559286.66 0.0138 0.0013

Uranus 120025-03-25 04:31 G 45559374.55 45559374.69 45559374.84 0.0138 0.0007

Uranus 120025-06-21 08:36 G 45559462.72 45559462.86 45559463.00 0.0138 0.0027

Uranus 120025-09-17 12:41 G 45559550.89 45559551.03 45559551.16 0.0138 0.0046

Uranus 120025-12-14 16:31 G 45559639.07 45559639.19 45559639.32 0.0138 0.0066

Uranus 120026-03-12 20:36 G 45559727.25 45559727.36 45559727.47 0.0138 0.0085

Uranus 120026-06-09 00:41 G 45559815.44 45559815.53 45559815.62 0.0138 0.0105

Uranus 120026-09-05 04:17 G 45559903.63 45559903.68 45559903.75 0.0139 0.0125

Jupiter 120028-09-10 11:29 G 45560639.95 45560639.98 45560640.02 0.0488 0.0476

Jupiter 120028-12-09 07:24 G 45560729.66 45560729.81 45560729.97 0.0490 0.0189

Mars 120031-08-09 12:26 G 45561702.90 45561703.02 45561703.14 0.1615 0.1056

Mars 120032-06-19 15:05 G 45562018.02 45562018.13 45562018.24 0.1926 0.0645

Earth 120033-04-10 12:55 G 45562312.92 45562313.04 45562313.15 0.2660 0.1495

Moon 120033-04-10 14:07 G 45562312.98 45562313.09 45562313.21 0.2658 0.1616 *

Jupiter 120034-05-19 17:14 G 45562717.16 45562717.22 45562717.28 0.0541 0.0485

Saturn 120034-06-21 08:07 G 45562749.78 45562749.84 45562749.90 0.0281 0.0259

Jupiter 120034-08-17 06:41 G 45562806.67 45562806.78 45562806.90 0.0539 0.0269

Saturn 120034-09-18 02:07 G 45562838.44 45562838.59 45562838.75 0.0280 0.0079

Saturn 120034-12-15 20:36 G 45562927.20 45562927.36 45562927.52 0.0280 0.0106

Moon 120037-10-02 23:14 G 45563949.36 45563949.47 45563949.58 0.2683 0.1052

Earth 120037-10-02 23:29 G 45563949.37 45563949.48 45563949.59 0.2676 0.1088 *

Jupiter 120040-09-27 07:53 G 45565039.67 45565039.83 45565040.00 0.0489 0.0022

Mars 120040-12-29 16:02 G 45565133.01 45565133.17 45565133.33 0.1610 0.0063

Mars	120041-11-09 22:02	G	45565448.31	45565448.42	45565448.53	0.1932	0.0709
Venus	120042-10-24 06:55	G	45565796.75	45565796.79	45565796.83	0.3725	0.3443
Pluto	120044-08-21 19:24	G	45566464.28	45566464.31	45566464.36	0.0059	0.0057
Pluto	120044-11-17 20:22	G	45566552.27	45566552.35	45566552.48	0.0059	0.0049
Pluto	120045-02-13 21:34	G	45566640.29	45566640.40	45566640.57	0.0059	0.0041
Pluto	120045-05-12 23:14	G	45566728.32	45566728.47	45566728.65	0.0059	0.0032
Pluto	120045-08-09 00:41	G	45566816.36	45566816.53	45566816.72	0.0059	0.0024
Pluto	120045-11-05 02:07	G	45566904.41	45566904.59	45566904.79	0.0059	0.0015
Pluto	120046-02-01 03:34	G	45566992.46	45566992.65	45566992.85	0.0059	0.0007
Pluto	120046-04-30 05:00	G	45567080.51	45567080.71	45567080.91	0.0059	0.0002
Jupiter	120046-06-05 09:34	G	45567116.77	45567116.90	45567117.04	0.0539	0.0093
Pluto	120046-07-27 06:26	G	45567168.57	45567168.77	45567168.96	0.0059	0.0011
Pluto	120046-10-23 07:24	G	45567256.64	45567256.81	45567257.01	0.0059	0.0020
Pluto	120047-01-19 08:36	G	45567344.71	45567344.86	45567345.06	0.0059	0.0029
Pluto	120047-04-17 10:17	G	45567432.78	45567432.93	45567433.09	0.0059	0.0037
Pluto	120047-07-14 11:14	G	45567520.87	45567520.97	45567521.12	0.0059	0.0046
Pluto	120047-10-10 13:10	G	45567608.97	45567609.05	45567609.13	0.0059	0.0054
Venus	120048-05-09 00:55	G	45567820.44	45567820.54	45567820.64	0.3722	0.1510
Saturn	120049-07-20 21:34	G	45568258.30	45568258.40	45568258.50	0.0278	0.0198
Saturn	120049-10-17 11:00	G	45568346.82	45568346.96	45568347.10	0.0278	0.0042
Saturn	120050-01-14 00:12	G	45568435.38	45568435.51	45568435.64	0.0279	0.0112
Saturn	120050-04-12 13:10	G	45568524.01	45568524.05	45568524.09	0.0279	0.0263
Mars	120050-05-21 19:38	G	45568563.22	45568563.32	45568563.43	0.1607	0.1154
Earth	120050-10-05 18:55	G	45568700.17	45568700.29	45568700.40	0.2674	0.0821
Moon	120050-10-05 19:38	G	45568700.21	45568700.32	45568700.43	0.2675	0.0883 *
Jupiter	120052-07-16 08:36	G	45569349.70	45569349.86	45569350.02	0.0489	0.0146
Venus	120053-11-22 18:41	G	45569844.17	45569844.28	45569844.39	0.3718	0.0362
Jupiter	120058-03-24 11:58	G	45571426.86	45571427.00	45571427.14	0.0539	0.0093
Venus	120059-06-08 12:12	G	45571867.92	45571868.01	45571868.09	0.3715	0.2149
Earth	120063-10-08 14:07	G	45573451.08	45573451.09	45573451.09	0.2672	0.2666

Saturn 120064-02-05 01:38 G 45573570.43 45573570.57 45573570.72 0.0280 0.0137

Saturn 120064-05-03 20:07 G 45573659.17 45573659.34 45573659.50 0.0280 0.0047

Jupiter 120064-05-04 09:34 G 45573659.77 45573659.90 45573660.03 0.0488 0.0304

Uranus 120064-07-29 16:02 G 45573746.09 45573746.17 45573746.26 0.0140 0.0122

Saturn 120064-07-31 14:36 G 45573748.02 45573748.11 45573748.20 0.0280 0.0233

Jupiter 120064-08-02 06:12 G 45573749.65 45573749.76 45573749.87 0.0490 0.0374

Uranus 120064-10-25 21:48 G 45573834.30 45573834.41 45573834.54 0.0140 0.0098

Uranus 120065-01-22 03:48 G 45573922.52 45573922.66 45573922.81 0.0140 0.0074

Uranus 120065-04-20 09:48 G 45574010.76 45574010.91 45574011.07 0.0140 0.0050

Uranus 120065-07-17 16:02 G 45574099.00 45574099.17 45574099.33 0.0140 0.0026

Uranus 120065-10-13 22:02 G 45574187.25 45574187.42 45574187.59 0.0140 0.0002

Uranus 120066-01-10 04:02 G 45574275.50 45574275.67 45574275.84 0.0140 0.0023

Uranus 120066-04-08 10:17 G 45574363.77 45574363.93 45574364.09 0.0140 0.0047

Moon 120066-04-08 16:46 G 45574364.06 45574364.20 45574364.34 0.2651 0.0664 *

Earth 120066-04-08 17:00 G 45574364.07 45574364.21 45574364.34 0.2658 0.0727 *

Uranus 120066-07-05 16:17 G 45574452.04 45574452.18 45574452.33 0.0140 0.0072

Venus 120066-07-06 00:55 G 45574452.43 45574452.54 45574452.64 0.3653 0.2390

Uranus 120066-10-01 22:17 G 45574540.32 45574540.43 45574540.57 0.0140 0.0097

Uranus 120066-12-29 04:31 G 45574628.62 45574628.69 45574628.79 0.0140 0.0122

Jupiter 120070-01-10 13:10 G 45575736.94 45575737.05 45575737.17 0.0540 0.0302

Jupiter 120070-04-10 02:07 G 45575826.51 45575826.59 45575826.67 0.0537 0.0437

Earth 120070-10-01 08:50 G 45576000.85 45576000.87 45576000.89 0.2677 0.2631

Moon 120070-10-01 09:34 G 45576000.88 45576000.90 45576000.93 0.2680 0.2579 *

Mars 120071-02-07 12:55 G 45576129.94 45576130.04 45576130.14 0.1615 0.1229

Mars 120071-12-19 15:19 G 45576445.03 45576445.14 45576445.24 0.1926 0.0796

Venus 120072-01-20 02:22 G 45576476.47 45576476.60 45576476.74 0.3658 0.0758

Jupiter 120076-02-21 10:31 G 45577969.89 45577969.94 45577969.98 0.0488 0.0465

Jupiter 120076-05-21 06:26 G 45578059.62 45578059.77 45578059.92 0.0490 0.0201

Saturn 120078-12-08 00:41 G 45578990.45 45578990.53 45578990.62 0.0278 0.0226

Saturn 120079-03-06 14:22 G 45579078.96 45579079.10 45579079.24 0.0279 0.0068

Moon 120079-04-11 17:29 G 45579115.12 45579115.23 45579115.33 0.2662 0.1779

Earth 120079-04-11 18:41 G 45579115.19 45579115.28 45579115.37 0.2660 0.2062 *

Saturn 120079-06-03 03:34 G 45579167.52 45579167.65 45579167.79 0.0279 0.0086

Saturn 120079-08-30 16:31 G 45579256.12 45579256.19 45579256.27 0.0279 0.0239

Mars 120080-06-29 16:31 G 45579560.03 45579560.19 45579560.35 0.1611 0.0106

Mars 120081-05-10 22:17 G 45579875.31 45579875.43 45579875.54 0.1932 0.0553

Jupiter 120081-10-29 15:05 G 45580047.08 45580047.13 45580047.18 0.0541 0.0497

Jupiter 120082-01-27 04:31 G 45580136.57 45580136.69 45580136.81 0.0538 0.0256

Earth 120083-10-04 04:31 G 45580751.57 45580751.69 45580751.80 0.2675 0.0688

Moon 120083-10-04 05:00 G 45580751.59 45580751.71 45580751.82 0.2670 0.0549 *

Jupiter 120088-03-09 06:12 G 45582369.59 45582369.76 45582369.92 0.0489 0.0023

Mars 120089-11-19 20:22 G 45582990.23 45582990.35 45582990.48 0.1607 0.0979

Neptune 120093-02-23 02:07 G 45584181.58 45584181.59 45584181.64 0.0088 0.0087

Neptune 120093-05-22 04:17 G 45584269.62 45584269.68 45584269.74 0.0088 0.0079

Saturn 120093-06-24 03:19 G 45584302.52 45584302.64 45584302.77 0.0281 0.0174

Neptune 120093-08-18 05:58 G 45584357.67 45584357.75 45584357.84 0.0088 0.0072

Saturn 120093-09-20 21:34 G 45584391.23 45584391.40 45584391.57 0.0280 0.0008

Neptune 120093-11-14 07:38 G 45584445.73 45584445.82 45584445.92 0.0088 0.0065

Jupiter 120093-11-15 07:24 G 45584446.68 45584446.81 45584446.95 0.0539 0.0080

Saturn 120093-12-18 15:48 G 45584480.05 45584480.16 45584480.29 0.0280 0.0194

Neptune 120094-02-10 09:19 G 45584533.79 45584533.89 45584534.01 0.0088 0.0057

Neptune 120094-05-09 11:00 G 45584621.85 45584621.96 45584622.09 0.0088 0.0051

Neptune 120094-08-05 12:41 G 45584709.91 45584710.03 45584710.17 0.0088 0.0044

Neptune 120094-11-01 14:22 G 45584797.98 45584798.10 45584798.24 0.0088 0.0037

Neptune 120095-01-28 16:17 G 45584886.04 45584886.18 45584886.32 0.0088 0.0029

Neptune 120095-04-26 17:58 G 45584974.11 45584974.25 45584974.39 0.0088 0.0022

Neptune 120095-07-23 19:38 G 45585062.18 45585062.32 45585062.47 0.0088 0.0015

Neptune 120095-10-19 21:19 G 45585150.25 45585150.39 45585150.54 0.0088 0.0008

Neptune 120096-01-15 23:00 G 45585238.32 45585238.46 45585238.61 0.0088 0.0001

Neptune 120096-04-13 00:41 G 45585326.39 45585326.53 45585326.67 0.0088 0.0006

Neptune 120096-07-10 02:22 G 45585414.46 45585414.60 45585414.74 0.0088 0.0013

Moon 120096-10-05 23:14 G 45585502.36 45585502.47 45585502.58 0.2669 0.1032

Earth 120096-10-05 23:58 G 45585502.39 45585502.50 45585502.60 0.2673 0.1215 *

Neptune 120096-10-06 04:02 G 45585502.53 45585502.67 45585502.81 0.0088 0.0020 *

Neptune 120097-01-02 05:29 G 45585590.60 45585590.73 45585590.87 0.0088 0.0027

Neptune 120097-03-31 07:10 G 45585678.67 45585678.80 45585678.94 0.0088 0.0033

Neptune 120097-06-27 08:50 G 45585766.75 45585766.87 45585767.00 0.0088 0.0040

Neptune 120097-09-23 10:17 G 45585854.82 45585854.93 45585855.06 0.0088 0.0047

Neptune 120097-12-20 12:12 G 45585942.89 45585943.01 45585943.12 0.0088 0.0054

Neptune 120098-03-18 13:38 G 45586030.97 45586031.07 45586031.18 0.0088 0.0060

Neptune 120098-06-14 15:05 G 45586119.05 45586119.13 45586119.23 0.0088 0.0067

Neptune 120098-09-10 16:31 G 45586207.13 45586207.19 45586207.28 0.0088 0.0074

Neptune 120098-12-07 18:26 G 45586295.22 45586295.27 45586295.33 0.0088 0.0080

Neptune 120099-03-05 19:53 G 45586383.32 45586383.33 45586383.36 0.0088 0.0087

Venus 120099-05-31 05:00 G 45586469.64 45586469.71 45586469.79 0.3725 0.2816

Jupiter 120099-12-27 06:41 G 45586679.62 45586679.78 45586679.94 0.0489 0.0146

Venus 120104-12-14 23:00 G 45588493.35 45588493.46 45588493.57 0.3721 0.0903

Jupiter 120105-09-04 10:17 G 45588756.79 45588756.93 45588757.06 0.0540 0.0100

Uranus 120107-08-07 06:12 G 45589458.72 45589458.76 45589458.82 0.0138 0.0129

Uranus 120107-11-03 10:31 G 45589546.86 45589546.94 45589547.04 0.0138 0.0109

Uranus 120108-01-30 14:50 G 45589635.01 45589635.12 45589635.24 0.0138 0.0088

Uranus 120108-04-27 18:55 G 45589723.17 45589723.29 45589723.43 0.0138 0.0068

Saturn 120108-07-24 15:19 G 45589811.01 45589811.14 45589811.27 0.0278 0.0121

Uranus 120108-07-24 23:14 G 45589811.33 45589811.47 45589811.61 0.0138 0.0048

Uranus 120108-10-21 03:19 G 45589899.50 45589899.64 45589899.79 0.0138 0.0028

Saturn 120108-10-21 04:31 G 45589899.55 45589899.69 45589899.84 0.0279 0.0034 *

Uranus 120109-01-17 07:38 G 45589987.67 45589987.82 45589987.96 0.0138 0.0009

Saturn 120109-01-17 17:43 G 45589988.13 45589988.24 45589988.34 0.0279 0.0187

Uranus 120109-04-15 11:43 G 45590075.84 45590075.99 45590076.13 0.0138 0.0012

Uranus 120109-07-12 15:34 G 45590164.01 45590164.15 45590164.30 0.0138 0.0032

Uranus 120109-10-08 19:38 G 45590252.19 45590252.32 45590252.46 0.0138 0.0052

Uranus 120110-01-04 23:29 G 45590340.37 45590340.48 45590340.62 0.0138 0.0072

Uranus 120110-04-03 03:34 G 45590428.55 45590428.65 45590428.77 0.0138 0.0091

Uranus 120110-06-30 07:38 G 45590516.74 45590516.82 45590516.91 0.0138 0.0110

Venus 120110-06-30 16:31 G 45590517.09 45590517.19 45590517.30 0.3717 0.0934

Mars 120110-08-09 13:24 G 45590556.98 45590557.06 45590557.14 0.1615 0.1392

Uranus 120110-09-26 11:43 G 45590604.94 45590604.99 45590605.04 0.0139 0.0129

Mars 120111-06-20 15:19 G 45590872.04 45590872.14 45590872.24 0.1927 0.0946

Jupiter 120111-10-16 07:24 G 45590989.68 45590989.81 45590989.94 0.0488 0.0310

Jupiter 120112-01-14 03:48 G 45591079.55 45591079.66 45591079.77 0.0490 0.0368

Moon 120112-04-09 22:46 G 45591166.31 45591166.45 45591166.59 0.2665 0.0084

Earth 120112-04-09 22:46 G 45591166.31 45591166.45 45591166.59 0.2658 0.0170 *

Venus 120116-01-14 10:02 G 45592540.85 45592540.92 45592540.99 0.3714 0.2717

Moon 120116-10-02 13:24 G 45592803.01 45592803.06 45592803.12 0.2673 0.2368

Earth 120116-10-02 13:53 G 45592803.02 45592803.08 45592803.15 0.2677 0.2218 *

Jupiter 120117-06-23 12:26 G 45593066.90 45593067.02 45593067.14 0.0540 0.0287

Jupiter 120117-09-21 01:10 G 45593156.48 45593156.55 45593156.63 0.0537 0.0452

Mars 120119-12-30 17:00 G 45593987.05 45593987.21 45593987.36 0.1611 0.0269

Mars 120120-11-09 22:17 G 45594302.31 45594302.43 45594302.55 0.1932 0.0395

Saturn 120122-11-12 02:50 G 45595034.53 45595034.62 45595034.71 0.0280 0.0234

Saturn 120123-02-08 20:50 G 45595123.21 45595123.37 45595123.54 0.0280 0.0053

Venus 120123-02-11 00:55 G 45595125.41 45595125.54 45595125.66 0.3654 0.1425

Saturn 120123-05-08 15:05 G 45595211.99 45595212.13 45595212.29 0.0280 0.0132

Jupiter 120123-08-04 08:22 G 45595299.81 45595299.85 45595299.90 0.0488 0.0466

Jupiter 120123-11-02 04:31 G 45595389.54 45595389.69 45595389.84 0.0490 0.0201

Earth 120125-04-13 00:41 G 45595917.51 45595917.53 45595917.55 0.2661 0.2626

Venus 120128-08-27 02:36 G 45597149.49 45597149.61 45597149.73 0.3659 0.1806

Jupiter 120129-04-11 13:24 G 45597377.01 45597377.06 45597377.11 0.0541 0.0498

Mars 120129-05-21 20:50 G 45597417.24 45597417.37 45597417.51 0.1607 0.0814

Jupiter 120129-07-10 02:50 G 45597466.50 45597466.62 45597466.74 0.0538 0.0254

Moon 120129-10-05 08:50 G 45597553.75 45597553.87 45597553.99 0.2679 0.0322

Earth 120129-10-05 09:34 G 45597553.78 45597553.90 45597554.02 0.2675 0.0279 *

Mars 120130-04-02 05:00 G 45597732.67 45597732.71 45597732.75 0.1937 0.1790

Jupiter 120135-08-21 04:46 G 45599699.54 45599699.70 45599699.87 0.0489 0.0031

Saturn 120137-12-11 18:26 G 45600543.15 45600543.27 45600543.40 0.0279 0.0148

Saturn 120138-03-10 07:53 G 45600631.69 45600631.83 45600631.98 0.0279 0.0011

Saturn 120138-06-06 21:05 G 45600720.27 45600720.38 45600720.50 0.0279 0.0162

Jupiter 120141-04-28 05:14 G 45601776.58 45601776.72 45601776.85 0.0539 0.0069

Pluto 120142-01-26 01:10 G 45602049.51 45602049.55 45602049.61 0.0085 0.0077

Pluto 120142-04-24 02:36 G 45602137.52 45602137.61 45602137.71 0.0085 0.0060

Pluto 120142-07-21 03:48 G 45602225.55 45602225.66 45602225.78 0.0085 0.0042

Earth 120142-10-08 05:00 G 45602304.61 45602304.71 45602304.80 0.2673 0.1607

Moon 120142-10-08 05:29 G 45602304.64 45602304.73 45602304.82 0.2678 0.1636 *

Pluto 120142-10-17 05:00 G 45602313.59 45602313.71 45602313.84 0.0085 0.0025

Pluto 120143-01-13 06:26 G 45602401.64 45602401.77 45602401.90 0.0085 0.0008

Pluto 120143-04-11 07:38 G 45602489.69 45602489.82 45602489.95 0.0085 0.0009

Pluto 120143-07-08 08:50 G 45602577.75 45602577.87 45602578.00 0.0085 0.0026

Pluto 120143-10-04 09:48 G 45602665.81 45602665.91 45602666.04 0.0084 0.0044

Pluto 120143-12-31 11:00 G 45602753.88 45602753.96 45602754.07 0.0084 0.0060

Pluto 120144-03-28 12:26 G 45602841.97 45602842.02 45602842.08 0.0084 0.0077

Earth 120145-04-08 03:05 G 45603217.56 45603217.63 45603217.70 0.2656 0.2318

Moon 120145-04-08 04:17 G 45603217.61 45603217.68 45603217.76 0.2657 0.2222 *

Jupiter 120147-06-09 04:31 G 45604009.54 45604009.69 45604009.85 0.0488 0.0149

Uranus 120148-05-23 17:14 G 45604359.21 45604359.22 45604359.23 0.0140 0.0140

Uranus 120148-08-19 22:46 G 45604447.37 45604447.45 45604447.55 0.0140 0.0116

Uranus 120148-11-16 05:00 G 45604535.58 45604535.71 45604535.83 0.0140 0.0093

Uranus 120149-02-12 10:46 G 45604623.81 45604623.95 45604624.10 0.0140 0.0069

Uranus 120149-05-11 16:46 G 45604712.04 45604712.20 45604712.36 0.0140 0.0045

Uranus 120149-08-07 22:46 G 45604800.28 45604800.45 45604800.62 0.0140 0.0021

Uranus 120149-11-04 04:46 G 45604888.53 45604888.70 45604888.88 0.0140 0.0005

Uranus 120150-01-31 11:00 G 45604976.79 45604976.96 45604977.13 0.0140 0.0028

Mars 120150-02-07 14:07 G 45604984.05 45604984.09 45604984.12 0.1615 0.1571

Uranus 120150-04-29 17:00 G 45605065.05 45605065.21 45605065.37 0.0140 0.0052

Uranus 120150-07-26 23:14 G 45605153.33 45605153.47 45605153.61 0.0140 0.0077

Uranus 120150-10-23 05:14 G 45605241.61 45605241.72 45605241.85 0.0140 0.0102

Mars 120150-12-19 15:19 G 45605299.04 45605299.14 45605299.24 0.1926 0.1093

Uranus 120151-01-19 11:29 G 45605329.92 45605329.98 45605330.06 0.0139 0.0126

Saturn 120152-03-31 05:00 G 45605766.66 45605766.71 45605766.76 0.0281 0.0265

Saturn 120152-06-27 23:00 G 45605855.30 45605855.46 45605855.62 0.0280 0.0085

Saturn 120152-09-24 17:14 G 45605944.06 45605944.22 45605944.38 0.0280 0.0099

Jupiter 120153-02-14 07:38 G 45606086.69 45606086.82 45606086.96 0.0540 0.0115

Venus 120156-01-06 03:19 G 45607142.55 45607142.64 45607142.72 0.3724 0.2192

Earth 120158-04-11 04:31 G 45607968.55 45607968.69 45607968.84 0.2659 0.0393

Moon 120158-04-11 05:14 G 45607968.58 45607968.72 45607968.86 0.2653 0.0558 *

Jupiter 120159-03-28 05:29 G 45608319.60 45608319.73 45608319.85 0.0488 0.0311

Jupiter 120159-06-26 01:53 G 45608409.47 45608409.58 45608409.69 0.0490 0.0364

Mars 120159-06-30 17:29 G 45608414.08 45608414.23 45608414.38 0.1611 0.0444

Mars 120160-05-10 22:17 G 45608729.31 45608729.43 45608729.55 0.1932 0.0258

Venus 120161-07-21 20:50 G 45609166.26 45609166.37 45609166.48 0.3720 0.0336

Earth 120162-10-03 19:10 G 45609605.21 45609605.30 45609605.38 0.2677 0.1808

Moon 120162-10-03 19:24 G 45609605.22 45609605.31 45609605.39 0.2684 0.1824 *

Jupiter 120164-12-03 10:17 G 45610396.82 45610396.93 45610397.05 0.0540 0.0295

Jupiter 120165-03-02 23:14 G 45610486.40 45610486.47 45610486.55 0.0538 0.0446

Venus 120167-02-04 14:36 G 45611190.01 45611190.11 45611190.21 0.3716 0.1519

Saturn 120167-04-30 19:38 G 45611275.22 45611275.32 45611275.42 0.0278 0.0199

Saturn 120167-07-28 09:05 G 45611363.74 45611363.88 45611364.02 0.0278 0.0043

Saturn 120167-10-24 22:17 G 45611452.30 45611452.43 45611452.56 0.0279 0.0111

Saturn 120168-01-21 11:14 G 45611540.93 45611540.97 45611541.02 0.0279 0.0263

Mars 120168-11-19 21:19 G 45611844.25 45611844.39 45611844.53 0.1607 0.0656

Mars 120169-10-01 05:14 G 45612159.65 45612159.72 45612159.78 0.1937 0.1625

Jupiter 120171-01-14 06:12 G 45612629.72   45612629.76   45612629.80 0.0488 0.0473

Jupiter 120171-04-14 02:07 G 45612719.43   45612719.59   45612719.74 0.0490 0.0192

Venus   120172-08-20 07:53 G 45613213.78   45613213.83   45613213.88 0.3713 0.3271

Venus   120174-03-03 23:43 G 45613774.45   45613774.49   45613774.52 0.3651 0.3509

Earth   120175-10-06 14:36 G 45614355.99   45614356.11   45614356.23 0.2675 0.0120

Moon   120175-10-06 15:19 G 45614356.02   45614356.14   45614356.26 0.2672 0.0319 *

Jupiter 120176-09-21 12:26 G 45614706.96   45614707.02   45614707.08 0.0541 0.0486

Jupiter 120176-12-20 01:53 G 45614796.47   45614796.58   45614796.70 0.0538 0.0268

Neptune 120177-01-21 11:43 G 45614828.95   45614828.99   45614829.04 0.0089 0.0085

Neptune 120177-04-19 14:22 G 45614917.02   45614917.10   45614917.19 0.0089 0.0077

Neptune 120177-07-16 17:00 G 45615005.11   45615005.21   45615005.33 0.0089 0.0069

Neptune 120177-10-12 19:38 G 45615093.21   45615093.32   45615093.46 0.0089 0.0061

Neptune 120178-01-08 22:31 G 45615181.31   45615181.44   45615181.59 0.0089 0.0052

Neptune 120178-04-07 01:10 G 45615269.41   45615269.55   45615269.71 0.0089 0.0044

Neptune 120178-07-04 04:02 G 45615357.52   45615357.67   45615357.83 0.0089 0.0036

Neptune 120178-09-30 06:41 G 45615445.62   45615445.78   45615445.96 0.0089 0.0027

Neptune 120178-12-27 09:34 G 45615533.74   45615533.90   45615534.08 0.0089 0.0019

Neptune 120179-03-25 12:26 G 45615621.85   45615622.02   45615622.19 0.0089 0.0010

Neptune 120179-06-21 15:19 G 45615709.96   45615710.14   45615710.31 0.0089 0.0002

Neptune 120179-09-17 17:58 G 45615798.08   45615798.25   45615798.43 0.0089 0.0008

Venus   120179-09-18 00:55 G 45615798.41   45615798.54   45615798.68 0.3655 0.0442 *

Neptune 120179-12-14 20:50 G 45615886.20   45615886.37   45615886.55 0.0089 0.0016

Neptune 120180-03-11 23:29 G 45615974.32   45615974.48   45615974.66 0.0089 0.0025

Neptune 120180-06-08 02:36 G 45616062.45   45616062.61   45616062.77 0.0089 0.0033

Neptune 120180-09-04 05:14 G 45616150.58   45616150.72   45616150.88 0.0089 0.0042

Neptune 120180-12-01 08:07 G 45616238.71   45616238.84   45616238.99 0.0089 0.0051

Neptune 120181-02-27 10:46 G 45616326.84   45616326.95   45616327.10 0.0089 0.0061

Neptune 120181-05-26 14:07 G 45616414.98   45616415.09   45616415.20 0.0089 0.0069

Neptune 120181-08-22 17:00 G 45616503.13   45616503.21   45616503.30 0.0089 0.0077

Saturn   120181-11-14 22:17 G 45616587.29   45616587.43   45616587.57 0.0280 0.0145

Neptune 120181-11-18 19:53 G 45616591.30   45616591.33   45616591.38 0.0089 0.0086

Saturn   120182-02-11 16:31 G 45616676.03   45616676.19   45616676.36 0.0280 0.0037

Saturn   120182-05-11 11:00 G 45616764.86   45616764.96   45616765.06 0.0280 0.0223

Jupiter 120183-01-31 02:50 G 45617029.45   45617029.62   45617029.78 0.0489 0.0028

Venus   120185-04-03 03:05 G 45617822.54   45617822.63   45617822.71 0.3660 0.2860

Jupiter 120188-10-08 03:34 G 45619106.51   45619106.65   45619106.79 0.0539 0.0067

Moon   120188-10-08 09:48 G 45619106.83   45619106.91   45619106.99 0.2667 0.1895

Earth   120188-10-08 10:02 G 45619106.84   45619106.92   45619106.99 0.2673 0.2002 *

Mars   120190-06-19 15:19 G 45619726.05   45619726.14   45619726.23 0.1926 0.1234

Moon   120191-04-09 08:07 G 45620019.74   45620019.84   45620019.93 0.2652 0.1998

Earth   120191-04-09 08:50 G 45620019.77   45620019.87   45620019.98 0.2657 0.1780 *

Uranus   120191-08-27 13:24 G 45620160.00   45620160.06   45620160.13 0.0138 0.0124

Uranus   120191-11-23 17:29 G 45620248.15   45620248.23   45620248.34 0.0138 0.0104

Uranus   120192-02-19 22:02 G 45620336.30   45620336.42   45620336.54 0.0138 0.0083

Uranus   120192-05-18 02:07 G 45620424.46   45620424.59   45620424.72 0.0138 0.0063

Uranus   120192-08-14 06:12 G 45620512.63   45620512.76   45620512.91 0.0138 0.0043

Uranus   120192-11-10 10:31 G 45620600.79   45620600.94   45620601.08 0.0138 0.0023

Uranus   120193-02-06 14:36 G 45620688.96   45620689.11   45620689.26 0.0138 0.0003

Uranus   120193-05-05 18:41 G 45620777.14   45620777.28   45620777.42 0.0138 0.0017

Uranus   120193-08-01 22:46 G 45620865.31   45620865.45   45620865.59 0.0138 0.0037

Uranus   120193-10-29 02:36 G 45620953.49   45620953.61   45620953.75 0.0138 0.0057

Uranus   120194-01-25 06:55 G 45621041.67   45621041.79   45621041.91 0.0138 0.0076

Uranus   120194-04-23 10:46 G 45621129.85   45621129.95   45621130.06 0.0138 0.0095

Uranus   120194-07-20 14:36 G 45621218.04   45621218.11   45621218.20 0.0138 0.0115

Uranus   120194-10-16 18:41 G 45621306.25   45621306.28   45621306.32 0.0139 0.0134

Jupiter 120194-11-19 03:19 G 45621339.48   45621339.64   45621339.80 0.0489 0.0140

Saturn   120196-09-16 22:31 G 45622007.37   45622007.44   45622007.53 0.0279 0.0229

Saturn   120196-12-14 12:12 G 45622095.87   45622096.01   45622096.15 0.0279 0.0071

Saturn   120197-03-13 01:24 G 45622184.43   45622184.56   45622184.70 0.0279 0.0084

Saturn   120197-06-09 14:36 G 45622273.04   45622273.11   45622273.19 0.0279 0.0236

Mars 120198-12-29 17:58 G 45622841.11 45622841.25 45622841.40 0.1611 0.0614

Mars 120199-11-09 22:31 G 45623156.32 45623156.44 45623156.55 0.1931 0.0118

Jupiter 120200-07-28 05:29 G 45623416.60 45623416.73 45623416.87 0.0540 0.0126

Moon 120204-04-12 09:34 G 45624770.76 45624770.90 45624771.03 0.2663 0.0881

Earth 120204-04-12 10:31 G 45624770.81 45624770.94 45624771.07 0.2659 0.0942 *

Jupiter 120206-09-08 03:19 G 45625649.52 45625649.64 45625649.77 0.0488 0.0314

Jupiter 120206-12-06 23:43 G 45625739.38 45625739.49 45625739.60 0.0490 0.0360

Venus 120207-01-28 07:10 G 45625791.77 45625791.80 45625791.84 0.3726 0.3518

Mars 120208-05-21 21:48 G 45626271.26 45626271.41 45626271.57 0.1607 0.0485

Moon 120208-10-05 00:12 G 45626407.41 45626407.51 45626407.60 0.2670 0.1465

Earth 120208-10-05 00:12 G 45626407.41 45626407.51 45626407.61 0.2677 0.1400 *

Mars 120209-04-02 05:00 G 45626586.64 45626586.71 45626586.79 0.1936 0.1488

Saturn 120211-04-05 00:55 G 45627319.41 45627319.54 45627319.67 0.0281 0.0173

Saturn 120211-07-02 18:55 G 45627408.13 45627408.29 45627408.46 0.0280 0.0011

Saturn 120211-09-29 13:24 G 45627496.94 45627497.06 45627497.18 0.0280 0.0194

Jupiter 120212-05-16 07:53 G 45627726.72 45627726.83 45627726.95 0.0541 0.0312

Venus 120212-08-13 01:10 G 45627815.45 45627815.55 45627815.65 0.3723 0.1583

Jupiter 120212-08-13 21:05 G 45627816.30 45627816.38 45627816.46 0.0538 0.0431

Mars 120217-10-12 01:53 G 45629701.55 45629701.58 45629701.62 0.1604 0.1553

Venus 120218-02-26 18:55 G 45629839.18 45629839.29 45629839.40 0.3719 0.0287

Jupiter 120218-06-27 04:17 G 45629959.64 45629959.68 45629959.71 0.0487 0.0475

Jupiter 120218-09-24 23:58 G 45630049.35 45630049.50 45630049.65 0.0489 0.0189

Moon 120221-10-07 18:55 G 45631158.17 45631158.29 45631158.40 0.2674 0.0451

Earth 120221-10-07 19:38 G 45631158.21 45631158.32 45631158.44 0.2674 0.0525 *

Venus 120223-09-12 12:26 G 45631862.93 45631863.02 45631863.11 0.3715 0.2093

Jupiter 120224-03-04 10:31 G 45632036.88 45632036.94 45632036.99 0.0541 0.0497

Jupiter 120224-06-01 23:58 G 45632126.38 45632126.50 45632126.62 0.0539 0.0259

Saturn 120226-02-04 23:58 G 45632739.49 45632739.50 45632739.51 0.0278 0.0276

Saturn 120226-05-04 13:38 G 45632827.94 45632828.07 45632828.20 0.0278 0.0119

Saturn 120226-08-01 02:50 G 45632916.48 45632916.62 45632916.77 0.0278 0.0037

Saturn 120226-10-28 16:02 G 45633005.07 45633005.17 45633005.28 0.0279 0.0189

Mars 120229-12-19 15:34 G 45634153.07 45634153.15 45634153.23 0.1926 0.1403

Jupiter 120230-07-14 00:26 G 45634359.35 45634359.52 45634359.68 0.0489 0.0023

Venus 120230-10-09 23:43 G 45634447.39 45634447.49 45634447.59 0.3652 0.2551

Uranus 120232-06-13 23:58 G 45635060.46 45635060.50 45635060.55 0.0140 0.0134

Uranus 120232-09-10 05:43 G 45635148.65 45635148.74 45635148.85 0.0140 0.0111

Uranus 120232-12-07 11:43 G 45635236.86 45635236.99 45635237.13 0.0140 0.0087

Uranus 120233-03-05 17:43 G 45635325.09 45635325.24 45635325.39 0.0140 0.0063

Uranus 120233-06-01 23:43 G 45635413.33 45635413.49 45635413.65 0.0140 0.0039

Uranus 120233-08-29 05:43 G 45635501.57 45635501.74 45635501.91 0.0140 0.0015

Uranus 120233-11-25 11:43 G 45635589.82 45635589.99 45635590.16 0.0140 0.0009

Uranus 120234-02-21 17:43 G 45635678.08 45635678.24 45635678.41 0.0140 0.0034

Uranus 120234-05-20 23:58 G 45635766.34 45635766.50 45635766.66 0.0140 0.0058

Uranus 120234-08-17 05:58 G 45635854.62 45635854.75 45635854.90 0.0140 0.0082

Moon 120234-10-10 14:50 G 45635909.07 45635909.12 45635909.18 0.2679 0.2310

Earth 120234-10-10 15:05 G 45635909.08 45635909.13 45635909.18 0.2672 0.2392 *

Uranus 120234-11-13 12:12 G 45635942.91 45635943.01 45635943.12 0.0140 0.0107

Uranus 120235-02-09 18:26 G 45636031.22 45636031.27 45636031.33 0.0140 0.0132

Jupiter 120236-03-21 02:36 G 45636436.47 45636436.61 45636436.74 0.0539 0.0078

Venus 120236-04-25 01:10 G 45636471.42 45636471.55 45636471.69 0.3657 0.0603

Earth 120237-04-10 14:50 G 45636821.99 45636822.12 45636822.24 0.2657 0.1244

Moon 120237-04-10 15:19 G 45636822.02 45636822.14 45636822.26 0.2663 0.1241 *

Mars 120238-06-30 18:26 G 45637268.13 45637268.27 45637268.41 0.1611 0.0779

Mars 120239-05-11 22:31 G 45637583.32 45637583.44 45637583.56 0.1931 0.0081

Saturn 120240-08-21 23:58 G 45638051.42 45638051.50 45638051.59 0.0280 0.0235

Saturn 120240-11-18 18:12 G 45638140.09 45638140.26 45638140.42 0.0280 0.0055

Saturn 120241-02-15 12:26 G 45638228.87 45638229.02 45638229.17 0.0280 0.0129

Jupiter 120242-05-02 01:10 G 45638669.39 45638669.55 45638669.71 0.0489 0.0143

Mars 120247-11-20 22:17 G 45640698.28 45640698.43 45640698.59 0.1607 0.0320

Jupiter 120248-01-08 04:02 G 45640746.53 45640746.67 45640746.80 0.0539 0.0125

Mars 120248-10-01 05:14 G 45641013.63 45641013.72 45641013.80 0.1936 0.1334

Earth 120250-04-13 16:17 G 45641573.07 45641573.18 45641573.30 0.2659 0.1494

Moon 120250-04-13 17:29 G 45641573.13 45641573.23 45641573.34 0.2657 0.1768 *

Jupiter 120254-02-18 01:53 G 45642979.45 45642979.58 45642979.71 0.0488 0.0308

Jupiter 120254-05-18 22:17 G 45643069.32 45643069.43 45643069.54 0.0490 0.0369

Moon 120254-10-06 04:46 G 45643209.60 45643209.70 45643209.81 0.2682 0.1089

Earth 120254-10-06 05:14 G 45643209.61 45643209.72 45643209.83 0.2676 0.0991 *

Saturn 120255-09-21 16:17 G 45643560.06 45643560.18 45643560.30 0.0279 0.0152

Saturn 120255-12-19 05:43 G 45643648.60 45643648.74 45643648.89 0.0279 0.0007

Saturn 120256-03-16 18:55 G 45643737.18 45643737.29 45643737.41 0.0279 0.0159

Mars 120257-04-12 02:36 G 45644128.53 45644128.61 45644128.68 0.1604 0.1386

Neptune 120257-11-22 01:38 G 45644352.54 45644352.57 45644352.64 0.0088 0.0083

Neptune 120258-02-18 03:48 G 45644440.59 45644440.66 45644440.74 0.0088 0.0075

Neptune 120258-05-17 05:29 G 45644528.64 45644528.73 45644528.83 0.0088 0.0068

Neptune 120258-08-13 07:10 G 45644616.70 45644616.80 45644616.91 0.0088 0.0061

Neptune 120258-11-09 08:50 G 45644704.76 45644704.87 45644705.00 0.0088 0.0054

Neptune 120259-02-05 10:31 G 45644792.83 45644792.94 45644793.08 0.0088 0.0047

Neptune 120259-05-04 12:26 G 45644880.89 45644881.02 45644881.15 0.0088 0.0039

Neptune 120259-07-31 14:07 G 45644968.96 45644969.09 45644969.23 0.0088 0.0032

Jupiter 120259-10-27 05:58 G 45645056.64 45645056.75 45645056.86 0.0540 0.0321

Neptune 120259-10-27 15:48 G 45645057.03 45645057.16 45645057.30 0.0088 0.0025

Neptune 120260-01-23 17:29 G 45645145.09 45645145.23 45645145.38 0.0088 0.0018

Jupiter 120260-01-24 18:55 G 45645146.21 45645146.29 45645146.38 0.0538 0.0422

Neptune 120260-04-20 19:10 G 45645233.16 45645233.30 45645233.45 0.0088 0.0012

Neptune 120260-07-17 21:05 G 45645321.23 45645321.38 45645321.52 0.0088 0.0005

Neptune 120260-10-13 22:46 G 45645409.30 45645409.45 45645409.59 0.0088 0.0004

Neptune 120261-01-10 00:12 G 45645497.37 45645497.51 45645497.66 0.0088 0.0010

Neptune 120261-04-08 01:53 G 45645585.44 45645585.58 45645585.73 0.0088 0.0017

Neptune 120261-07-05 03:34 G 45645673.52 45645673.65 45645673.79 0.0088 0.0024

Neptune 120261-10-01 05:14 G 45645761.59 45645761.72 45645761.86 0.0088 0.0031

Neptune 120261-12-28 06:55 G 45645849.66   45645849.79   45645849.92 0.0088 0.0037

Neptune 120262-03-26 08:22 G 45645937.74   45645937.85   45645937.98 0.0088 0.0045

Neptune 120262-06-22 10:02 G 45646025.81   45646025.92   45646026.04 0.0088 0.0051

Neptune 120262-09-18 11:29 G 45646113.89   45646113.98   45646114.10 0.0088 0.0058

Neptune 120262-12-15 13:24 G 45646201.97   45646202.06   45646202.16 0.0088 0.0064

Neptune 120263-03-13 14:50 G 45646290.05   45646290.12   45646290.21 0.0088 0.0071

Neptune 120263-06-09 16:17 G 45646378.13   45646378.18   45646378.26 0.0088 0.0078

Venus   120263-09-04 05:29 G 45646464.66   45646464.73   45646464.79 0.3725 0.2886

Neptune 120263-09-05 18:12 G 45646466.22   45646466.26   45646466.30 0.0088 0.0084

Jupiter 120265-12-07 02:07 G 45647289.56   45647289.59   45647289.62 0.0487 0.0478

Jupiter 120266-03-06 21:48 G 45647379.26   45647379.41   45647379.57 0.0489 0.0184

Earth   120267-10-09 00:41 G 45647960.42   45647960.53   45647960.64 0.2674 0.0916

Moon   120267-10-09 01:24 G 45647960.46   45647960.56   45647960.67 0.2678 0.1096 *

Venus   120269-03-19 23:14 G 45648488.37   45648488.47   45648488.58 0.3722 0.0970

Mars   120269-06-19 15:19 G 45648580.07   45648580.14   45648580.21 0.1925 0.1536

Saturn   120270-01-09 02:50 G 45648783.57   45648783.62   45648783.69 0.0281 0.0260

Saturn   120270-04-07 20:50 G 45648872.22   45648872.37   45648872.53 0.0280 0.0080

Saturn   120270-07-05 15:05 G 45648960.98   45648961.13   45648961.29 0.0280 0.0104

Jupiter 120271-08-15 07:53 G 45649366.79   45649366.83   45649366.87 0.0541 0.0514

Jupiter 120271-11-12 21:34 G 45649456.28   45649456.40   45649456.52 0.0539 0.0244

Venus   120274-10-03 17:00 G 45650512.10   45650512.21   45650512.32 0.3718 0.0885

Uranus   120275-09-17 20:36 G 45650861.29   45650861.36   45650861.44 0.0138 0.0119

Uranus   120275-12-15 00:41 G 45650949.44   45650949.53   45650949.64 0.0138 0.0099

Uranus   120276-03-12 05:00 G 45651037.59   45651037.71   45651037.83 0.0138 0.0078

Uranus   120276-06-08 09:19 G 45651125.76   45651125.89   45651126.02 0.0138 0.0058

Uranus   120276-09-04 13:24 G 45651213.92   45651214.06   45651214.20 0.0138 0.0038

Uranus   120276-12-01 17:29 G 45651302.09   45651302.23   45651302.38 0.0138 0.0019

Uranus   120277-02-27 21:34 G 45651390.26   45651390.40   45651390.55 0.0138 0.0005

Uranus   120277-05-27 01:38 G 45651478.43   45651478.57   45651478.72 0.0138 0.0022

Uranus   120277-08-23 05:43 G 45651566.61   45651566.74   45651566.88 0.0138 0.0042

Uranus 120277-11-19 09:48 G 45651654.78 45651654.91 45651655.04 0.0138 0.0061

Jupiter 120277-12-23 22:17 G 45651689.26 45651689.43 45651689.59 0.0489 0.0016

Mars 120277-12-29 18:55 G 45651695.17 45651695.29 45651695.42 0.1611 0.0953

Uranus 120278-02-15 13:53 G 45651742.96 45651743.08 45651743.20 0.0138 0.0080

Uranus 120278-05-14 17:58 G 45651831.15 45651831.25 45651831.35 0.0138 0.0100

Uranus 120278-08-10 21:34 G 45651919.34 45651919.40 45651919.48 0.0139 0.0120

Uranus 120278-11-07 01:53 G 45652007.58 45652007.58 45652007.58 0.0139 0.0138

Mars 120278-11-09 22:31 G 45652010.32 45652010.44 45652010.55 0.1931 0.0213

Venus 120280-04-18 10:31 G 45652535.86 45652535.94 45652536.01 0.3714 0.2670

Moon 120283-04-11 20:36 G 45653624.22 45653624.36 45653624.49 0.2651 0.0770

Earth 120283-04-11 20:36 G 45653624.23 45653624.36 45653624.50 0.2657 0.0685 *

Jupiter 120283-09-01 00:26 G 45653766.38 45653766.52 45653766.66 0.0539 0.0068

Saturn 120285-02-07 17:43 G 45654292.14 45654292.24 45654292.35 0.0278 0.0198

Saturn 120285-05-07 07:24 G 45654380.67 45654380.81 45654380.95 0.0278 0.0041

Saturn 120285-08-03 20:36 G 45654469.23 45654469.36 45654469.49 0.0279 0.0113

Saturn 120285-10-31 09:34 G 45654557.86 45654557.90 45654557.95 0.0279 0.0265

Venus 120287-05-16 23:43 G 45655120.37 45655120.49 45655120.62 0.3653 0.1583

Mars 120287-05-21 22:46 G 45655125.29 45655125.45 45655125.61 0.1608 0.0159

Earth 120287-10-04 14:36 G 45655261.08 45655261.11 45655261.15 0.2678 0.2537

Moon 120287-10-04 15:19 G 45655261.09 45655261.14 45655261.18 0.2683 0.2441 *

Mars 120288-04-01 05:14 G 45655440.63 45655440.72 45655440.82 0.1936 0.1164

Jupiter 120289-10-11 22:46 G 45655999.29 45655999.45 45655999.61 0.0489 0.0152

Pluto 120292-03-27 02:36 G 45656896.61 45656896.61 45656896.63 0.0059 0.0059

Pluto 120292-06-23 03:19 G 45656984.57 45656984.64 45656984.77 0.0059 0.0051

Pluto 120292-09-19 05:00 G 45657072.59 45657072.71 45657072.86 0.0059 0.0042

Venus 120292-11-30 01:38 G 45657144.44 45657144.57 45657144.69 0.3658 0.1625

Pluto 120292-12-16 06:12 G 45657160.62 45657160.76 45657160.95 0.0059 0.0034

Pluto 120293-03-14 07:53 G 45657248.66 45657248.83 45657249.02 0.0059 0.0025

Pluto 120293-06-10 09:05 G 45657336.71 45657336.88 45657337.08 0.0059 0.0017

Pluto 120293-09-06 10:46 G 45657424.76 45657424.95 45657425.15 0.0059 0.0008

Pluto 120293-12-03 12:12 G 45657512.81 45657513.01 45657513.21 0.0059 0.0001

Pluto 120294-03-01 13:24 G 45657600.87 45657601.06 45657601.26 0.0059 0.0009

Pluto 120294-05-28 14:36 G 45657688.93 45657689.11 45657689.31 0.0059 0.0018

Pluto 120294-08-24 15:48 G 45657777.00 45657777.16 45657777.35 0.0059 0.0026

Pluto 120294-11-20 17:29 G 45657865.07 45657865.23 45657865.39 0.0059 0.0035

Pluto 120295-02-16 18:26 G 45657953.16 45657953.27 45657953.43 0.0059 0.0044

Pluto 120295-05-15 19:38 G 45658041.26 45658041.32 45658041.44 0.0059 0.0053

Jupiter 120295-06-20 02:50 G 45658076.49 45658076.62 45658076.76 0.0540 0.0116

Moon 120296-04-13 21:05 G 45658375.28 45658375.38 45658375.48 0.2658 0.1937

Earth 120296-04-13 22:17 G 45658375.35 45658375.43 45658375.52 0.2660 0.2069 *

Mars 120296-10-11 03:05 G 45658555.53 45658555.63 45658555.73 0.1604 0.1223

Saturn 120299-08-25 19:53 G 45659604.19 45659604.33 45659604.47 0.0280 0.0145

Saturn 120299-11-22 13:53 G 45659692.92 45659693.08 45659693.25 0.0280 0.0038

Saturn 120300-02-19 08:22 G 45659781.75 45659781.85 45659781.95 0.0280 0.0223

Earth 120300-10-07 10:17 G 45660011.82 45660011.93 45660012.05 0.2676 0.0581

Moon 120300-10-07 11:00 G 45660011.84 45660011.96 45660012.07 0.2671 0.0500 *

Jupiter 120301-07-31 23:43 G 45660309.37 45660309.49 45660309.62 0.0488 0.0311

Jupiter 120301-10-29 20:07 G 45660399.23 45660399.34 45660399.45 0.0490 0.0365

Jupiter 120307-04-09 04:17 G 45662386.57 45662386.68 45662386.80 0.0540 0.0319

Jupiter 120307-07-07 17:29 G 45662476.15 45662476.23 45662476.31 0.0537 0.0424

Mars 120308-12-19 15:34 G 45663007.09 45663007.15 45663007.20 0.1925 0.1688

Jupiter 120313-05-20 00:41 G 45664619.49 45664619.53 45664619.57 0.0488 0.0472

Jupiter 120313-08-17 20:22 G 45664709.20 45664709.35 45664709.51 0.0490 0.0192

Moon 120313-10-10 05:14 G 45664762.61 45664762.72 45664762.82 0.2670 0.1263

Earth 120313-10-10 05:43 G 45664762.64 45664762.74 45664762.84 0.2674 0.1324 *

Saturn 120314-06-28 20:07 G 45665024.27 45665024.34 45665024.42 0.0279 0.0234

Saturn 120314-09-25 09:48 G 45665112.77 45665112.91 45665113.05 0.0279 0.0076

Saturn 120314-12-22 23:14 G 45665201.33 45665201.47 45665201.61 0.0279 0.0079

Saturn 120315-03-21 12:26 G 45665289.94 45665290.02 45665290.10 0.0279 0.0232

Uranus 120316-07-05 06:41 G 45665761.73 45665761.78 45665761.86 0.0140 0.0130

Uranus 120316-10-01 12:55 G 45665849.93 45665850.04 45665850.15 0.0140 0.0105

Uranus 120316-12-28 18:26 G 45665938.15 45665938.27 45665938.42 0.0140 0.0083

Uranus 120317-03-27 00:41 G 45666026.38 45666026.53 45666026.68 0.0140 0.0058

Uranus 120317-06-23 06:41 G 45666114.61 45666114.78 45666114.94 0.0140 0.0034

Mars 120317-06-30 19:38 G 45666122.21 45666122.32 45666122.43 0.1612 0.1124

Uranus 120317-09-19 12:26 G 45666202.86 45666203.02 45666203.20 0.0140 0.0011

Uranus 120317-12-16 18:41 G 45666291.11 45666291.28 45666291.45 0.0140 0.0014

Uranus 120318-03-15 00:26 G 45666379.36 45666379.52 45666379.69 0.0140 0.0039

Mars 120318-05-11 22:31 G 45666437.32 45666437.44 45666437.56 0.1931 0.0360

Uranus 120318-06-11 06:41 G 45666467.63 45666467.78 45666467.94 0.0140 0.0063

Uranus 120318-09-07 12:41 G 45666555.91 45666556.03 45666556.17 0.0140 0.0088

Uranus 120318-12-04 18:55 G 45666644.20 45666644.29 45666644.40 0.0140 0.0112

Jupiter 120319-01-26 05:58 G 45666696.72 45666696.75 45666696.79 0.0541 0.0518

Uranus 120319-03-03 01:10 G 45666732.52 45666732.55 45666732.59 0.0139 0.0136

Jupiter 120319-04-25 19:38 G 45666786.20 45666786.32 45666786.45 0.0538 0.0239

Venus 120320-04-11 03:34 G 45667137.56 45667137.65 45667137.73 0.3724 0.2260

Jupiter 120325-06-05 20:07 G 45669019.18 45669019.34 45669019.51 0.0489 0.0018

Venus 120325-10-25 21:19 G 45669161.28 45669161.39 45669161.50 0.3721 0.0362

Mars 120326-11-20 23:29 G 45669552.32 45669552.48 45669552.64 0.1608 0.0023

Mars 120327-10-02 05:14 G 45669867.62 45669867.72 45669867.82 0.1936 0.1027

Saturn 120329-01-12 22:31 G 45670336.32 45670336.44 45670336.58 0.0281 0.0170

Saturn 120329-04-11 16:46 G 45670425.03 45670425.20 45670425.37 0.0280 0.0012

Moon 120329-04-13 01:53 G 45670426.44 45670426.58 45670426.72 0.2663 0.0269

Earth 120329-04-13 02:36 G 45670426.46 45670426.61 45670426.75 0.2658 0.0156 *

Saturn 120329-07-09 11:00 G 45670513.85 45670513.96 45670514.08 0.0280 0.0197

Jupiter 120331-02-11 22:02 G 45671096.29 45671096.42 45671096.56 0.0540 0.0056

Venus 120331-05-11 14:50 G 45671185.02 45671185.12 45671185.22 0.3717 0.1478

Moon 120333-10-05 19:24 G 45672063.24 45672063.31 45672063.38 0.2671 0.2180

Earth 120333-10-05 19:53 G 45672063.25 45672063.33 45672063.40 0.2678 0.2122 *

Mars 120336-04-12 03:19 G 45672982.53 45672982.64 45672982.76 0.1604 0.1063

Venus 120336-11-24 08:22 G 45673208.80 45673208.85 45673208.90 0.3713 0.3237

Jupiter 120337-03-24 20:50 G 45673329.21 45673329.37 45673329.53 0.0488 0.0153

Venus 120338-06-07 22:46 G 45673769.44 45673769.45 45673769.45 0.3650 0.3641

Neptune 120341-07-24 08:22 G 45674911.84 45674911.85 45674911.87 0.0089 0.0088

Neptune 120341-10-20 11:00 G 45674999.90 45674999.96 45675000.04 0.0089 0.0080

Neptune 120342-01-16 13:38 G 45675087.98 45675088.07 45675088.18 0.0089 0.0072

Neptune 120342-04-14 16:17 G 45675176.07 45675176.18 45675176.31 0.0089 0.0064

Earth 120342-04-16 04:17 G 45675177.67 45675177.68 45675177.70 0.2660 0.2638

Neptune 120342-07-11 19:10 G 45675264.17 45675264.30 45675264.44 0.0089 0.0055

Neptune 120342-10-07 21:48 G 45675352.27 45675352.41 45675352.56 0.0089 0.0047

Jupiter 120342-12-01 00:55 G 45675406.40 45675406.54 45675406.67 0.0540 0.0126

Neptune 120343-01-04 00:26 G 45675440.37 45675440.52 45675440.68 0.0089 0.0039

Neptune 120343-04-02 03:19 G 45675528.48 45675528.64 45675528.81 0.0089 0.0030

Neptune 120343-06-29 05:58 G 45675616.59 45675616.75 45675616.93 0.0089 0.0022

Neptune 120343-09-25 08:50 G 45675704.70 45675704.87 45675705.04 0.0089 0.0013

Saturn 120343-11-15 22:02 G 45675756.41 45675756.42 45675756.42 0.0278 0.0277

Neptune 120343-12-22 11:43 G 45675792.81 45675792.99 45675793.16 0.0089 0.0005

Venus 120343-12-22 23:58 G 45675793.36 45675793.50 45675793.63 0.3655 0.0599

Saturn 120344-02-12 11:29 G 45675844.85 45675844.98 45675845.11 0.0278 0.0120

Neptune 120344-03-19 14:22 G 45675880.93 45675881.10 45675881.28 0.0089 0.0004

Saturn 120344-05-11 00:55 G 45675933.40 45675933.54 45675933.68 0.0278 0.0035

Neptune 120344-06-15 17:14 G 45675969.05 45675969.22 45675969.39 0.0089 0.0012

Saturn 120344-08-07 14:07 G 45676021.99 45676022.09 45676022.19 0.0279 0.0187

Neptune 120344-09-11 19:53 G 45676057.17 45676057.33 45676057.51 0.0089 0.0021

Neptune 120344-12-08 22:46 G 45676145.29 45676145.45 45676145.62 0.0089 0.0030

Neptune 120345-03-07 01:38 G 45676233.42 45676233.57 45676233.73 0.0089 0.0038

Neptune 120345-06-03 04:17 G 45676321.54 45676321.68 45676321.84 0.0089 0.0048

Neptune 120345-08-30 07:10 G 45676409.68 45676409.80 45676409.95 0.0089 0.0056

Neptune 120345-11-26 09:48 G 45676497.81 45676497.91 45676498.05 0.0089 0.0066

Neptune 120346-02-22 13:10 G 45676585.96 45676586.05 45676586.15 0.0089 0.0074

Neptune 120346-05-21 16:02 G 45676674.11 45676674.17 45676674.24 0.0089 0.0082

Moon 120346-10-08 14:36 G 45676813.99 45676814.11 45676814.23 0.2677 0.0297

Earth 120346-10-08 15:19 G 45676814.03 45676814.14 45676814.26 0.2676 0.0190 *

Mars 120348-06-19 15:34 G 45677434.12 45677434.15 45677434.18 0.1925 0.1844

Jupiter 120349-01-10 21:34 G 45677639.27 45677639.40 45677639.52 0.0488 0.0317

Jupiter 120349-04-10 17:43 G 45677729.13 45677729.24 45677729.35 0.0490 0.0356

Venus 120349-07-08 01:53 G 45677817.49 45677817.58 45677817.67 0.3659 0.2669

Jupiter 120354-09-19 03:05 G 45679716.52 45679716.63 45679716.75 0.0541 0.0312

Jupiter 120354-12-17 16:31 G 45679806.11 45679806.19 45679806.27 0.0538 0.0433

Mars 120356-12-29 20:07 G 45680549.24 45680549.34 45680549.43 0.1612 0.1292

Mars 120357-11-09 22:31 G 45680864.33 45680864.44 45680864.56 0.1931 0.0518

Saturn 120358-06-01 21:19 G 45681068.31 45681068.39 45681068.48 0.0281 0.0236

Saturn 120358-08-29 15:19 G 45681156.98 45681157.14 45681157.31 0.0280 0.0056

Saturn 120358-11-26 09:34 G 45681245.76 45681245.90 45681246.05 0.0280 0.0128

Uranus 120359-07-12 23:14 G 45681474.45 45681474.47 45681474.51 0.0138 0.0135

Uranus 120359-10-09 03:48 G 45681562.58 45681562.66 45681562.74 0.0138 0.0114

Moon 120359-10-11 10:46 G 45681564.86 45681564.95 45681565.04 0.2680 0.1675

Earth 120359-10-11 10:46 G 45681564.87 45681564.95 45681565.04 0.2674 0.1722 *

Uranus 120360-01-05 07:53 G 45681650.73 45681650.83 45681650.94 0.0138 0.0094

Uranus 120360-04-02 11:58 G 45681738.88 45681739.00 45681739.13 0.0138 0.0074

Uranus 120360-06-29 16:17 G 45681827.05 45681827.18 45681827.32 0.0138 0.0054

Uranus 120360-09-25 20:22 G 45681915.21 45681915.35 45681915.50 0.0138 0.0034

Jupiter 120360-10-29 22:46 G 45681949.41 45681949.45 45681949.48 0.0488 0.0474

Uranus 120360-12-23 00:41 G 45682003.38 45682003.53 45682003.67 0.0138 0.0014

Jupiter 120361-01-27 18:26 G 45682039.11 45682039.27 45682039.42 0.0490 0.0190

Uranus 120361-03-21 04:46 G 45682091.55 45682091.70 45682091.85 0.0138 0.0006

Uranus 120361-06-17 08:50 G 45682179.73 45682179.87 45682180.01 0.0138 0.0026

Uranus 120361-09-13 12:41 G 45682267.90 45682268.03 45682268.18 0.0138 0.0047

Uranus 120361-12-10 17:00 G 45682356.08 45682356.21 45682356.34 0.0138 0.0066

Uranus 120362-03-08 20:50 G 45682444.26 45682444.37 45682444.49 0.0138 0.0085

Earth 120362-04-11 06:55 G 45682477.72 45682477.79 45682477.86 0.2656 0.2273

Moon 120362-04-11 07:24 G 45682477.74 45682477.81 45682477.88 0.2662 0.2250 *

Uranus 120362-06-05 00:55 G 45682532.45 45682532.54 45682532.64 0.0139 0.0105

Uranus 120362-09-01 05:00 G 45682620.65 45682620.71 45682620.77 0.0139 0.0124

Mars 120366-05-21 23:58 G 45683979.34 45683979.50 45683979.66 0.1608 0.0188

Jupiter 120366-07-08 04:46 G 45684026.66 45684026.70 45684026.74 0.0541 0.0514

Jupiter 120366-10-05 18:26 G 45684116.15 45684116.27 45684116.39 0.0538 0.0242

Mars 120367-04-02 05:29 G 45684294.62 45684294.73 45684294.83 0.1936 0.0867

Venus 120371-05-03 07:38 G 45685786.79 45685786.82 45685786.84 0.3727 0.3581

Jupiter 120372-11-15 18:55 G 45686349.12 45686349.29 45686349.45 0.0489 0.0024

Saturn 120373-07-01 13:24 G 45686576.95 45686577.06 45686577.18 0.0279 0.0161

Saturn 120373-09-28 03:05 G 45686665.48 45686665.63 45686665.77 0.0279 0.0008

Saturn 120373-12-25 16:17 G 45686754.06 45686754.18 45686754.30 0.0279 0.0149

Earth 120375-04-14 08:22 G 45687228.71 45687228.85 45687228.99 0.2658 0.0409

Moon 120375-04-14 09:34 G 45687228.77 45687228.90 45687229.04 0.2656 0.0640 *

Mars 120375-10-12 04:02 G 45687409.54 45687409.67 45687409.80 0.1604 0.0895

Venus 120376-11-16 01:38 G 45687810.47 45687810.57 45687810.67 0.3723 0.1638

Jupiter 120378-07-24 20:36 G 45688426.22 45688426.36 45688426.50 0.0539 0.0054

Moon 120379-10-07 00:26 G 45688865.43 45688865.52 45688865.60 0.2682 0.1872

Earth 120379-10-07 00:55 G 45688865.45 45688865.54 45688865.63 0.2677 0.1712 *

Venus 120382-06-01 19:24 G 45689834.20 45689834.31 45689834.42 0.3720 0.0248

Jupiter 120384-09-03 18:55 G 45690659.13 45690659.29 45690659.45 0.0488 0.0154

Saturn 120387-10-20 00:12 G 45691800.45 45691800.51 45691800.57 0.0281 0.0262

Venus 120387-12-16 12:55 G 45691857.95 45691858.04 45691858.13 0.3716 0.2055

Saturn 120388-01-16 17:58 G 45691889.10 45691889.25 45691889.41 0.0281 0.0083

Saturn 120388-04-14 12:12 G 45691977.86 45691978.01 45691978.17 0.0280 0.0101

Pluto 120389-08-31 10:17 G 45692481.92 45692481.93 45692481.97 0.0085 0.0083

Pluto 120389-11-27 11:43 G 45692569.91 45692569.99 45692570.08 0.0085 0.0066

Pluto 120390-02-23 12:55 G 45692657.94 45692658.04 45692658.16 0.0085 0.0048

Jupiter 120390-05-12 22:31 G 45692736.31 45692736.44 45692736.58 0.0540 0.0139

Pluto 120390-05-22 14:07 G 45692745.98 45692746.09 45692746.22 0.0085 0.0031

Pluto 120390-08-18 15:34 G 45692834.02 45692834.15 45692834.28 0.0085 0.0014

Pluto 120390-11-14 16:46 G 45692922.07 45692922.20 45692922.34 0.0085 0.0004

Pluto 120391-02-10 17:58 G 45693010.13 45693010.25 45693010.38 0.0085 0.0021

Pluto 120391-05-09 19:10 G 45693098.19 45693098.30 45693098.42 0.0085 0.0037

Pluto 120391-08-05 20:22 G 45693186.26 45693186.35 45693186.46 0.0084 0.0054

Pluto 120391-11-01 21:48 G 45693274.34 45693274.41 45693274.48 0.0084 0.0071

Earth 120392-10-08 20:36 G 45693616.24 45693616.36 45693616.47 0.2675 0.0245

Moon 120392-10-08 21:05 G 45693616.26 45693616.38 45693616.49 0.2681 0.0387 *

Venus 120395-01-12 22:46 G 45694442.36 45694442.45 45694442.53 0.3652 0.2716

Jupiter 120396-06-22 19:38 G 45694969.20 45694969.32 45694969.45 0.0488 0.0316

Mars 120396-06-29 20:36 G 45694976.30 45694976.36 45694976.43 0.1612 0.1469

Jupiter 120396-09-20 15:48 G 45695059.05 45695059.16 45695059.28 0.0490 0.0356

Mars 120397-05-10 22:31 G 45695291.33 45695291.44 45695291.55 0.1931 0.0660

Uranus 120400-07-25 13:53 G 45696463.01 45696463.08 45696463.17 0.0140 0.0124

Venus 120400-07-29 00:12 G 45696466.37 45696466.51 45696466.64 0.3656 0.0417

Uranus 120400-10-21 19:38 G 45696551.22 45696551.32 45696551.45 0.0140 0.0100

Uranus 120401-01-18 01:38 G 45696639.44 45696639.57 45696639.72 0.0140 0.0076

Uranus 120401-04-16 07:24 G 45696727.67 45696727.81 45696727.98 0.0140 0.0053

Uranus 120401-07-13 13:38 G 45696815.90 45696816.07 45696816.23 0.0140 0.0029

Uranus 120401-10-09 19:38 G 45696904.15 45696904.32 45696904.49 0.0140 0.0005

Uranus 120402-01-06 01:38 G 45696992.40 45696992.57 45696992.74 0.0140 0.0020

Jupiter 120402-03-01 01:10 G 45697046.44 45697046.55 45697046.66 0.0541 0.0321

Uranus 120402-04-04 07:38 G 45697080.66 45697080.82 45697080.98 0.0140 0.0044

Jupiter 120402-05-29 14:22 G 45697136.02 45697136.10 45697136.18 0.0538 0.0425

Uranus 120402-07-01 13:38 G 45697168.92 45697169.07 45697169.22 0.0140 0.0068

Uranus 120402-09-27 19:38 G 45697257.20 45697257.32 45697257.46 0.0140 0.0093

Saturn 120402-11-18 15:19 G 45697309.04 45697309.14 45697309.24 0.0278 0.0203

Uranus 120402-12-25 01:38 G 45697345.49 45697345.57 45697345.68 0.0140 0.0118

Saturn 120403-02-15 04:46 G 45697397.56 45697397.70 45697397.85 0.0278 0.0048

Saturn 120403-05-14 18:12 G 45697486.13 45697486.26 45697486.39 0.0278 0.0107

Saturn 120403-08-11 07:10 G 45697574.75 45697574.80 45697574.86 0.0278 0.0258

Earth 120405-10-11 15:48 G 45698367.09 45698367.16 45698367.23 0.2673 0.2113

Moon 120405-10-11 16:31 G 45698367.13 45698367.19 45698367.26 0.2669 0.2169 *

Mars 120405-11-20 00:26 G 45698406.36 45698406.52 45698406.67 0.1608 0.0350

Mars 120406-10-01 05:29 G 45698721.62 45698721.73 45698721.84 0.1936 0.0704

Jupiter 120408-04-10 20:36 G 45699279.33 45699279.36 45699279.39 0.0487 0.0477

Earth 120408-04-11 12:41 G 45699279.93 45699280.03 45699280.14 0.2656 0.1737

Moon 120408-04-11 13:24 G 45699279.95 45699280.06 45699280.16 0.2650 0.1722 *

Jupiter 120408-07-09 16:02 G 45699369.02 45699369.17 45699369.33 0.0489 0.0184

Jupiter 120413-12-18 03:34 G 45701356.60 45701356.65 45701356.69 0.0541 0.0508

Jupiter 120414-03-17 17:14 G 45701446.10 45701446.22 45701446.34 0.0539 0.0251

Mars 120415-04-12 04:31 G 45701836.55 45701836.69 45701836.83 0.1605 0.0730

Saturn 120417-06-04 16:31 G 45702621.05 45702621.19 45702621.33 0.0281 0.0152

Saturn 120417-09-01 10:31 G 45702709.78 45702709.94 45702710.11 0.0280 0.0030

Saturn 120417-11-29 05:00 G 45702798.60 45702798.71 45702798.82 0.0280 0.0215

Jupiter 120420-04-27 17:00 G 45703679.04 45703679.21 45703679.37 0.0489 0.0023

Moon 120421-04-14 13:24 G 45704030.93 45704031.06 45704031.20 0.2653 0.0921

Earth 120421-04-14 14:22 G 45704030.96 45704031.10 45704031.23 0.2658 0.0967 *

Neptune 120422-05-23 23:29 G 45704435.46 45704435.48 45704435.53 0.0088 0.0086

Neptune 120422-08-20 01:24 G 45704523.51 45704523.56 45704523.64 0.0088 0.0078

Neptune 120422-11-16 03:05 G 45704611.56 45704611.63 45704611.73 0.0088 0.0071

Neptune 120423-02-12 05:14 G 45704699.62 45704699.72 45704699.82 0.0088 0.0064

Neptune 120423-05-11 06:55 G 45704787.68 45704787.79 45704787.90 0.0088 0.0057

Neptune 120423-08-07 08:36 G 45704875.74 45704875.86 45704875.98 0.0088 0.0049

Neptune 120423-11-03 10:17 G 45704963.81 45704963.93 45704964.06 0.0088 0.0042

Neptune 120424-01-30 11:58 G 45705051.87 45705052.00 45705052.14 0.0088 0.0035

Neptune 120424-04-27 13:38 G 45705139.94 45705140.07 45705140.22 0.0088 0.0029

Neptune 120424-07-24 15:19 G 45705228.01 45705228.14 45705228.29 0.0088 0.0022

Neptune 120424-10-20 17:14 G 45705316.08 45705316.22 45705316.36 0.0088 0.0014

Neptune 120425-01-16 18:55 G 45705404.14   45705404.29   45705404.43 0.0088 0.0007

Neptune 120425-04-14 20:36 G 45705492.21   45705492.36   45705492.50 0.0088 0.0000

Neptune 120425-07-11 22:17 G 45705580.29   45705580.43   45705580.57 0.0088 0.0007

Earth   120425-10-07 05:58 G 45705667.65   45705667.75   45705667.85 0.2677 0.1301

Moon   120425-10-07 06:55 G 45705667.68   45705667.79   45705667.89 0.2678 0.1228 *

Neptune 120425-10-07 23:58 G 45705668.36   45705668.50   45705668.64 0.0088 0.0014

Jupiter 120426-01-03 19:10 G 45705756.17   45705756.30   45705756.44 0.0539 0.0062

Neptune 120426-01-04 01:38 G 45705756.43   45705756.57   45705756.71 0.0088 0.0021 *

Neptune 120426-04-02 03:19 G 45705844.50   45705844.64   45705844.77 0.0088 0.0028

Neptune 120426-06-29 04:46 G 45705932.58   45705932.70   45705932.84 0.0088 0.0035

Neptune 120426-09-25 06:26 G 45706020.65   45706020.77   45706020.90 0.0088 0.0041

Neptune 120426-12-22 08:07 G 45706108.72   45706108.84   45706108.96 0.0088 0.0048

Neptune 120427-03-20 09:34 G 45706196.80   45706196.90   45706197.02 0.0088 0.0055

Neptune 120427-06-16 11:29 G 45706284.88   45706284.98   45706285.08 0.0088 0.0062

Neptune 120427-09-12 12:55 G 45706372.96   45706373.04   45706373.14 0.0088 0.0068

Venus   120427-12-08 05:43 G 45706459.67   45706459.74   45706459.81 0.3726 0.2945

Neptune 120427-12-09 14:22 G 45706461.04   45706461.10   45706461.19 0.0088 0.0075

Neptune 120428-03-06 15:48 G 45706549.13   45706549.16   45706549.23 0.0088 0.0083

Jupiter 120432-02-14 17:29 G 45707989.08   45707989.23   45707989.39 0.0489 0.0147

Saturn   120432-04-06 16:46 G 45708041.14   45708041.20   45708041.27 0.0278 0.0249

Saturn   120432-07-04 06:26 G 45708129.63   45708129.77   45708129.91 0.0279 0.0092

Saturn   120432-09-30 19:53 G 45708218.19   45708218.33   45708218.47 0.0279 0.0063

Saturn   120432-12-28 09:05 G 45708306.79   45708306.88   45708306.97 0.0279 0.0216

Venus   120433-06-22 23:43 G 45708483.38   45708483.49   45708483.59 0.3722 0.1036

Mars   120436-11-08 22:46 G 45709718.34   45709718.45   45709718.56 0.1930 0.0819

Jupiter 120437-10-22 21:19 G 45710066.25   45710066.39   45710066.52 0.0540 0.0133

Earth   120438-10-10 01:38 G 45710418.45   45710418.57   45710418.68 0.2675 0.0631

Moon   120438-10-10 01:38 G 45710418.46   45710418.57   45710418.69 0.2669 0.0723 *

Venus   120439-01-06 17:29 G 45710507.12   45710507.23   45710507.33 0.3719 0.0851

Uranus   120443-08-02 06:12 G 45712175.72   45712175.76   45712175.82 0.0138 0.0130

Uranus 120443-10-29 10:31 G 45712263.86 45712263.94 45712264.04 0.0138 0.0110

Jupiter 120443-12-03 17:58 G 45712299.13 45712299.25 45712299.38 0.0488 0.0315

Uranus 120444-01-25 15:05 G 45712352.01 45712352.13 45712352.24 0.0138 0.0089

Jupiter 120444-03-02 14:07 G 45712388.98 45712389.09 45712389.20 0.0490 0.0357

Uranus 120444-04-22 19:10 G 45712440.18 45712440.30 45712440.43 0.0138 0.0069

Uranus 120444-07-19 23:14 G 45712528.34 45712528.47 45712528.61 0.0138 0.0049

Venus 120444-07-22 10:46 G 45712530.88 45712530.95 45712531.03 0.3715 0.2620

Uranus 120444-10-16 03:34 G 45712616.51 45712616.65 45712616.79 0.0138 0.0029

Uranus 120445-01-12 07:38 G 45712704.68 45712704.82 45712704.97 0.0138 0.0010

Uranus 120445-04-10 11:58 G 45712792.85 45712793.00 45712793.14 0.0138 0.0012

Mars 120445-05-21 00:55 G 45712833.39 45712833.54 45712833.69 0.1608 0.0526

Uranus 120445-07-07 15:48 G 45712881.02 45712881.16 45712881.31 0.0138 0.0031

Uranus 120445-10-03 20:07 G 45712969.20 45712969.34 45712969.47 0.0138 0.0051

Uranus 120445-12-30 23:58 G 45713057.38 45713057.50 45713057.63 0.0138 0.0070

Uranus 120446-03-29 04:02 G 45713145.56 45713145.67 45713145.78 0.0138 0.0090

Mars 120446-04-01 05:29 G 45713148.62 45713148.73 45713148.85 0.1935 0.0564

Uranus 120446-06-25 07:53 G 45713233.75 45713233.83 45713233.93 0.0139 0.0110

Uranus 120446-09-21 11:58 G 45713321.96 45713322.00 45713322.06 0.0139 0.0129

Saturn 120446-10-22 18:41 G 45713353.16 45713353.28 45713353.41 0.0281 0.0182

Saturn 120447-01-19 12:55 G 45713441.87 45713442.04 45713442.20 0.0281 0.0004

Saturn 120447-04-18 07:10 G 45713530.68 45713530.80 45713530.93 0.0280 0.0185

Jupiter 120449-08-10 23:00 G 45714376.35 45714376.46 45714376.57 0.0541 0.0332

Jupiter 120449-11-08 12:26 G 45714465.93 45714466.02 45714466.10 0.0538 0.0416

Venus 120451-08-19 22:46 G 45715115.33 45715115.45 45715115.57 0.3653 0.1753

Moon 120451-10-12 20:22 G 45715169.29 45715169.35 45715169.40 0.2669 0.2322

Earth 120451-10-12 20:50 G 45715169.34 45715169.37 45715169.41 0.2673 0.2504 *

Moon 120454-04-12 17:14 G 45716082.11 45716082.22 45716082.34 0.2656 0.1473

Earth 120454-04-12 18:41 G 45716082.15 45716082.28 45716082.40 0.2656 0.1192 *

Mars 120454-10-11 05:00 G 45716263.56 45716263.71 45716263.85 0.1604 0.0568

Jupiter 120455-09-21 19:10 G 45716609.26 45716609.30 45716609.33 0.0487 0.0473

Jupiter 120455-12-20 14:36 G 45716698.95 45716699.11 45716699.26 0.0489 0.0188

Venus 120457-03-05 00:12 G 45717139.39 45717139.51 45717139.64 0.3657 0.1419

Jupiter 120461-05-30 01:24 G 45718686.52 45718686.56 45718686.60 0.0542 0.0517

Jupiter 120461-08-27 15:19 G 45718776.02 45718776.14 45718776.26 0.0539 0.0244

Saturn 120461-11-21 08:36 G 45718861.73 45718861.86 45718861.99 0.0278 0.0132

Saturn 120462-02-17 22:02 G 45718950.27 45718950.42 45718950.56 0.0278 0.0024

Saturn 120462-05-17 11:00 G 45719038.86 45719038.96 45719039.08 0.0278 0.0175

Moon 120467-04-15 19:53 G 45720833.22 45720833.33 45720833.44 0.2666 0.1576

Earth 120467-04-15 20:07 G 45720833.23 45720833.34 45720833.46 0.2659 0.1524 *

Jupiter 120467-10-08 14:50 G 45721008.96 45721009.12 45721009.29 0.0489 0.0021

Moon 120471-10-08 10:46 G 45722469.83 45722469.95 45722470.06 0.2671 0.0989

Earth 120471-10-08 11:00 G 45722469.85 45722469.96 45722470.07 0.2677 0.0888 *

Jupiter 120473-06-15 18:12 G 45723086.12 45723086.26 45723086.39 0.0540 0.0069

Saturn 120476-03-10 17:00 G 45724085.15 45724085.21 45724085.29 0.0281 0.0252

Mars 120476-05-09 22:46 G 45724145.35 45724145.45 45724145.55 0.1930 0.0966

Saturn 120476-06-07 11:00 G 45724173.80 45724173.96 45724174.12 0.0281 0.0072

Saturn 120476-09-04 05:14 G 45724262.57 45724262.72 45724262.88 0.0280 0.0112

Jupiter 120479-07-27 15:48 G 45725319.01 45725319.16 45725319.32 0.0488 0.0144

Venus 120484-07-14 03:48 G 45727132.57 45727132.66 45727132.74 0.3725 0.2330

Uranus 120484-08-14 20:50 G 45727164.29 45727164.37 45727164.47 0.0140 0.0118

Moon 120484-10-10 05:43 G 45727220.63 45727220.74 45727220.85 0.2676 0.0921

Earth 120484-10-10 06:41 G 45727220.67 45727220.78 45727220.89 0.2675 0.1033 *

Uranus 120484-11-11 02:50 G 45727252.50 45727252.62 45727252.75 0.0140 0.0095

Mars 120484-11-19 01:24 G 45727260.42 45727260.56 45727260.71 0.1608 0.0698

Uranus 120485-02-07 08:36 G 45727340.72 45727340.86 45727341.01 0.0140 0.0071

Jupiter 120485-04-03 20:07 G 45727396.21 45727396.34 45727396.48 0.0540 0.0125

Uranus 120485-05-06 14:36 G 45727428.95 45727429.11 45727429.27 0.0140 0.0047

Uranus 120485-08-02 20:22 G 45727517.19 45727517.35 45727517.53 0.0140 0.0024

Mars 120485-09-30 05:29 G 45727575.62 45727575.73 45727575.85 0.1935 0.0411

Uranus 120485-10-30 02:36 G 45727605.44 45727605.61 45727605.78 0.0140 0.0002

Uranus 120486-01-26 08:36 G 45727693.69 45727693.86 45727694.03 0.0140 0.0025

Uranus 120486-04-24 14:36 G 45727781.95 45727782.11 45727782.27 0.0140 0.0049

Uranus 120486-07-21 20:22 G 45727870.22 45727870.35 45727870.51 0.0140 0.0074

Uranus 120486-10-18 02:36 G 45727958.50 45727958.61 45727958.74 0.0140 0.0098

Uranus 120487-01-14 08:36 G 45728046.79 45728046.86 45728046.96 0.0139 0.0123

Venus 120490-01-27 21:34 G 45729156.30 45729156.40 45729156.51 0.3722 0.0441

Saturn 120491-04-10 09:34 G 45729593.79 45729593.90 45729594.01 0.0278 0.0183

Jupiter 120491-05-15 16:46 G 45729629.07 45729629.20 45729629.33 0.0488 0.0306

Saturn 120491-07-07 23:00 G 45729682.32 45729682.46 45729682.61 0.0279 0.0028

Jupiter 120491-08-13 12:55 G 45729718.93 45729719.04 45729719.15 0.0490 0.0368

Saturn 120491-10-04 12:26 G 45729770.89 45729771.02 45729771.15 0.0279 0.0127

Saturn 120492-01-01 01:24 G 45729859.56 45729859.56 45729859.57 0.0279 0.0279

Mars 120494-04-11 05:29 G 45730690.58 45730690.73 45730690.88 0.1605 0.0394

Mars 120495-02-20 12:26 G 45731005.97 45731006.02 45731006.06 0.1940 0.1803

Venus 120495-08-13 15:19 G 45731180.04 45731180.14 45731180.24 0.3718 0.1417

Jupiter 120497-01-20 22:02 G 45731706.31 45731706.42 45731706.53 0.0540 0.0320

Jupiter 120497-04-20 11:14 G 45731795.89 45731795.97 45731796.06 0.0538 0.0426

Earth 120500-04-14 00:26 G 45732884.38 45732884.52 45732884.65 0.2657 0.0661

Moon 120500-04-14 01:10 G 45732884.42 45732884.55 45732884.69 0.2662 0.0573 *

Venus 120501-02-27 08:50 G 45733203.81 45733203.87 45733203.92 0.3714 0.3193

Jupiter 120503-03-04 17:29 G 45733939.19 45733939.23 45733939.27 0.0487 0.0469

Jupiter 120503-06-02 12:55 G 45734028.89 45734029.04 45734029.19 0.0489 0.0192

Mars 120503-09-02 09:48 G 45734120.84 45734120.91 45734120.97 0.1601 0.1458

Moon 120504-10-06 19:38 G 45734521.30 45734521.32 45734521.34 0.2677 0.2610

Earth 120504-10-06 20:22 G 45734521.31 45734521.35 45734521.40 0.2679 0.2443 *

Saturn 120505-10-26 12:55 G 45734905.89 45734906.04 45734906.20 0.0281 0.0107

Saturn 120506-01-23 07:10 G 45734994.64 45734994.80 45734994.96 0.0281 0.0077

Neptune 120506-04-21 07:38 G 45735082.77 45735082.82 45735082.88 0.0089 0.0083

Saturn 120506-04-22 01:38 G 45735083.52 45735083.57 45735083.63 0.0280 0.0263

Neptune 120506-07-18 10:17 G 45735170.85 45735170.93 45735171.02 0.0089 0.0075

Neptune 120506-10-14 12:41 G 45735258.94   45735259.03   45735259.16 0.0089 0.0067

Neptune 120507-01-10 15:19 G 45735347.03   45735347.14   45735347.29 0.0089 0.0059

Neptune 120507-04-08 18:26 G 45735435.13   45735435.27   45735435.41 0.0089 0.0050

Neptune 120507-07-05 21:05 G 45735523.23   45735523.38   45735523.54 0.0089 0.0042

Neptune 120507-10-01 23:58 G 45735611.34   45735611.50   45735611.66 0.0089 0.0034

Neptune 120507-12-29 02:36 G 45735699.45   45735699.61   45735699.78 0.0089 0.0025

Neptune 120508-03-26 05:14 G 45735787.56   45735787.72   45735787.90 0.0089 0.0017

Venus   120508-03-26 22:46 G 45735788.32   45735788.45   45735788.59 0.3654 0.0772

Neptune 120508-06-22 08:07 G 45735875.67   45735875.84   45735876.01 0.0089 0.0008

Neptune 120508-09-18 11:00 G 45735963.78   45735963.96   45735964.13 0.0089 0.0002

Jupiter 120508-11-09 23:29 G 45736016.45   45736016.48   45736016.51 0.0542 0.0524

Neptune 120508-12-15 13:38 G 45736051.90   45736052.07   45736052.25 0.0089 0.0009

Jupiter 120509-02-07 13:24 G 45736105.94   45736106.06   45736106.18 0.0539 0.0237

Neptune 120509-03-13 16:31 G 45736140.02   45736140.19   45736140.36 0.0089 0.0018

Neptune 120509-06-09 19:10 G 45736228.14   45736228.30   45736228.47 0.0089 0.0026

Neptune 120509-09-05 21:48 G 45736316.26   45736316.41   45736316.58 0.0089 0.0036

Neptune 120509-12-03 00:55 G 45736404.39   45736404.54   45736404.69 0.0089 0.0044

Neptune 120510-03-01 03:34 G 45736492.52   45736492.65   45736492.80 0.0089 0.0053

Neptune 120510-05-28 06:26 G 45736580.65   45736580.77   45736580.91 0.0089 0.0061

Neptune 120510-08-24 09:05 G 45736668.79   45736668.88   45736669.01 0.0089 0.0071

Neptune 120510-11-20 11:58 G 45736756.94   45736757.00   45736757.10 0.0089 0.0079

Neptune 120511-02-16 15:19 G 45736845.11   45736845.14   45736845.17 0.0089 0.0088

Earth   120513-04-17 01:53 G 45737635.50   45737635.58   45737635.67 0.2659 0.2079

Moon   120513-04-17 03:19 G 45737635.57   45737635.64   45737635.71 0.2658 0.2285 *

Venus   120513-10-11 00:41 G 45737812.42   45737812.53   45737812.63 0.3658 0.2460

Jupiter 120515-03-21 13:38 G 45738338.90   45738339.07   45738339.23 0.0488 0.0026

Mars   120515-11-09 22:46 G 45738572.35   45738572.45   45738572.55 0.1930 0.1118

Moon   120517-10-09 15:48 G 45739272.04   45739272.16   45739272.27 0.2683 0.0525

Earth   120517-10-09 16:02 G 45739272.06   45739272.17   45739272.29 0.2676 0.0492 *

Saturn   120520-08-28 11:43 G 45740325.90   45740325.99   45740326.08 0.0277 0.0221

Saturn 120520-11-25 01:10 G 45740414.41 45740414.55 45740414.70 0.0278 0.0066

Jupiter 120520-11-26 16:02 G 45740416.04 45740416.17 45740416.31 0.0540 0.0063

Saturn 120521-02-21 14:36 G 45740502.97 45740503.11 45740503.25 0.0278 0.0088

Saturn 120521-05-21 03:34 G 45740591.59 45740591.65 45740591.73 0.0278 0.0239

Mars 120524-05-21 01:53 G 45741687.45 45741687.58 45741687.72 0.1608 0.0860

Mars 120525-04-01 05:58 G 45742002.63 45742002.75 45742002.86 0.1935 0.0245

Jupiter 120527-01-07 14:07 G 45742648.93 45742649.09 45742649.25 0.0488 0.0142

Uranus 120527-08-23 13:10 G 45742877.00 45742877.05 45742877.12 0.0138 0.0126

Uranus 120527-11-19 17:43 G 45742965.14 45742965.24 45742965.33 0.0138 0.0105

Uranus 120528-02-15 21:48 G 45743053.30 45743053.41 45743053.53 0.0138 0.0085

Uranus 120528-05-14 02:07 G 45743141.46 45743141.59 45743141.72 0.0138 0.0065

Uranus 120528-08-10 06:12 G 45743229.63 45743229.76 45743229.91 0.0138 0.0045

Uranus 120528-11-06 10:31 G 45743317.80 45743317.94 45743318.09 0.0138 0.0025

Uranus 120529-02-02 14:36 G 45743405.97 45743406.11 45743406.26 0.0138 0.0006

Uranus 120529-05-01 18:55 G 45743494.14 45743494.29 45743494.43 0.0138 0.0016

Uranus 120529-07-28 23:00 G 45743582.32 45743582.46 45743582.60 0.0138 0.0035

Uranus 120529-10-25 02:50 G 45743670.50 45743670.62 45743670.76 0.0138 0.0056

Uranus 120530-01-21 07:10 G 45743758.68 45743758.80 45743758.92 0.0138 0.0075

Uranus 120530-04-19 11:00 G 45743846.86 45743846.96 45743847.07 0.0139 0.0095

Uranus 120530-07-16 15:05 G 45743935.05 45743935.13 45743935.21 0.0139 0.0114

Earth 120530-10-12 11:43 G 45744022.89 45744022.99 45744023.09 0.2674 0.1426

Moon 120530-10-12 12:26 G 45744022.92 45744023.02 45744023.11 0.2678 0.1528 *

Uranus 120530-10-12 18:55 G 45744023.26 45744023.29 45744023.34 0.0139 0.0134

Jupiter 120532-09-14 18:55 G 45744726.15 45744726.29 45744726.42 0.0540 0.0118

Moon 120533-04-12 06:12 G 45744935.74 45744935.76 45744935.78 0.2655 0.2610

Mars 120533-10-11 05:58 G 45745117.59 45745117.75 45745117.91 0.1605 0.0229

Mars 120534-08-22 12:26 G 45745432.95 45745433.02 45745433.08 0.1940 0.1656

Saturn 120535-03-15 11:00 G 45745637.84 45745637.96 45745638.09 0.0281 0.0179

Saturn 120535-06-12 05:14 G 45745726.55 45745726.72 45745726.88 0.0281 0.0007

Venus 120535-08-06 07:53 G 45745781.81 45745781.83 45745781.84 0.3728 0.3661

Saturn 120535-09-08 23:29 G 45745815.36 45745815.48 45745815.60 0.0280 0.0188

Jupiter 120538-10-26 15:05 G 45746959.01 45746959.13 45746959.26 0.0488 0.0301

Jupiter 120539-01-24 11:14 G 45747048.86 45747048.97 45747049.08 0.0490 0.0372

Pluto 120540-01-27 09:48 G 45747416.87 45747416.91 45747417.01 0.0059 0.0055

Pluto 120540-04-24 11:43 G 45747504.87 45747504.99 45747505.11 0.0059 0.0046

Pluto 120540-07-21 12:55 G 45747592.90 45747593.04 45747593.20 0.0059 0.0038

Pluto 120540-10-17 14:07 G 45747680.94 45747681.09 45747681.28 0.0059 0.0030

Pluto 120541-01-13 15:48 G 45747768.98 45747769.16 45747769.35 0.0059 0.0021

Venus 120541-02-19 01:53 G 45747805.48 45747805.58 45747805.68 0.3724 0.1706

Pluto 120541-04-11 17:00 G 45747857.02 45747857.21 45747857.41 0.0059 0.0013

Pluto 120541-07-08 18:26 G 45747945.08 45747945.27 45747945.47 0.0059 0.0004

Pluto 120541-10-04 19:53 G 45748033.13 45748033.33 45748033.53 0.0059 0.0004

Pluto 120541-12-31 21:05 G 45748121.19 45748121.38 45748121.58 0.0059 0.0013

Pluto 120542-03-29 22:17 G 45748209.26 45748209.43 45748209.63 0.0059 0.0022

Pluto 120542-06-25 23:29 G 45748297.33 45748297.48 45748297.67 0.0059 0.0030

Pluto 120542-09-22 01:10 G 45748385.41 45748385.55 45748385.71 0.0059 0.0038

Pluto 120542-12-19 02:07 G 45748473.50 45748473.59 45748473.73 0.0059 0.0048

Mars 120543-03-03 10:17 G 45748547.84 45748547.93 45748548.02 0.1602 0.1294

Pluto 120543-03-17 03:48 G 45748561.61 45748561.66 45748561.74 0.0059 0.0056

Jupiter 120544-07-03 20:50 G 45749036.26 45749036.37 45749036.49 0.0540 0.0310

Jupiter 120544-10-01 10:17 G 45749125.85 45749125.93 45749126.01 0.0538 0.0436

Earth 120546-04-15 06:12 G 45749686.62 45749686.76 45749686.90 0.2657 0.0121

Moon 120546-04-15 06:55 G 45749686.64 45749686.79 45749686.93 0.2651 0.0092 *

Venus 120546-09-04 19:38 G 45749829.21 45749829.32 45749829.43 0.3720 0.0195

Saturn 120550-01-15 12:12 G 45751058.00 45751058.01 45751058.03 0.0278 0.0276

Saturn 120550-04-14 02:07 G 45751146.45 45751146.59 45751146.72 0.0278 0.0119

Saturn 120550-07-11 15:34 G 45751235.00 45751235.15 45751235.29 0.0278 0.0036

Jupiter 120550-08-14 16:17 G 45751269.13 45751269.18 45751269.23 0.0488 0.0460

Earth 120550-10-08 01:24 G 45751323.49 45751323.56 45751323.64 0.2678 0.2032

Moon 120550-10-08 01:53 G 45751323.50 45751323.58 45751323.65 0.2685 0.2051 *

Saturn 120550-10-08 04:31 G 45751323.59 45751323.69 45751323.80 0.0279 0.0189 *

Jupiter 120550-11-12 11:43 G 45751358.84 45751358.99 45751359.14 0.0489 0.0203

Venus 120552-03-20 13:10 G 45751852.96 45751853.05 45751853.15 0.3717 0.2004

Mars 120555-05-10 23:00 G 45752999.37 45752999.46 45752999.54 0.1930 0.1277

Jupiter 120556-04-21 22:46 G 45753346.40 45753346.45 45753346.50 0.0541 0.0506

Jupiter 120556-07-20 12:26 G 45753435.90 45753436.02 45753436.15 0.0539 0.0253

Venus 120559-04-17 21:34 G 45754437.32 45754437.40 45754437.49 0.3651 0.2857

Moon 120559-04-18 06:41 G 45754437.73 45754437.78 45754437.84 0.2655 0.2412

Earth 120559-04-18 07:53 G 45754437.82 45754437.83 45754437.84 0.2659 0.2638 *

Jupiter 120562-08-31 12:12 G 45755668.84 45755669.01 45755669.18 0.0489 0.0032

Earth 120563-10-10 21:19 G 45756074.27 45756074.39 45756074.51 0.2676 0.0106

Moon 120563-10-10 22:02 G 45756074.30 45756074.42 45756074.54 0.2675 0.0122 *

Mars 120563-11-20 02:36 G 45756114.49 45756114.61 45756114.73 0.1608 0.1040

Saturn 120564-08-01 12:26 G 45756369.93 45756370.02 45756370.13 0.0281 0.0218

Mars 120564-09-30 05:43 G 45756429.62 45756429.74 45756429.86 0.1935 0.0100

Saturn 120564-10-29 06:26 G 45756458.61 45756458.77 45756458.94 0.0281 0.0038

Venus 120564-10-31 23:00 G 45756461.32 45756461.46 45756461.60 0.3655 0.0230

Saturn 120565-01-26 00:41 G 45756547.40 45756547.53 45756547.68 0.0281 0.0148

Jupiter 120568-05-08 14:22 G 45757745.96 45757746.10 45757746.24 0.0540 0.0057

Uranus 120568-06-08 22:17 G 45757777.39 45757777.43 45757777.47 0.0140 0.0136

Uranus 120568-09-05 04:02 G 45757865.58 45757865.67 45757865.77 0.0140 0.0112

Uranus 120568-12-02 09:48 G 45757953.79 45757953.91 45757954.04 0.0140 0.0089

Uranus 120569-02-28 15:34 G 45758042.01 45758042.15 45758042.31 0.0140 0.0066

Uranus 120569-05-27 21:34 G 45758130.24 45758130.40 45758130.56 0.0140 0.0042

Uranus 120569-08-24 03:34 G 45758218.48 45758218.65 45758218.82 0.0140 0.0018

Uranus 120569-11-20 09:34 G 45758306.73 45758306.90 45758307.07 0.0140 0.0006

Uranus 120570-02-16 15:19 G 45758394.98 45758395.14 45758395.31 0.0140 0.0031

Uranus 120570-05-15 21:19 G 45758483.24 45758483.39 45758483.56 0.0140 0.0055

Venus 120570-05-18 00:55 G 45758485.50 45758485.54 45758485.57 0.3659 0.3515

Uranus 120570-08-12 03:34 G 45758571.51 45758571.65 45758571.79 0.0140 0.0079

Uranus 120570-11-08 09:34 G 45758659.79 45758659.90 45758660.02 0.0139 0.0104

Uranus 120571-02-04 15:34 G 45758748.10 45758748.15 45758748.23 0.0139 0.0128

Mars 120573-04-11 06:26 G 45759544.61 45759544.77 45759544.93 0.1605 0.0068

Mars 120574-02-20 12:26 G 45759859.95 45759860.02 45759860.10 0.1940 0.1485

Jupiter 120574-06-19 12:55 G 45759978.89 45759979.04 45759979.20 0.0488 0.0131

Earth 120576-10-12 16:46 G 45760825.11 45760825.20 45760825.28 0.2674 0.1822

Moon 120576-10-12 16:46 G 45760825.12 45760825.20 45760825.29 0.2668 0.1779 *

Moon 120579-04-13 10:17 G 45761737.87 45761737.93 45761737.99 0.2649 0.2378

Earth 120579-04-13 10:46 G 45761737.88 45761737.95 45761738.03 0.2655 0.2218 *

Saturn 120579-09-01 04:17 G 45761878.56 45761878.68 45761878.80 0.0277 0.0156

Saturn 120579-11-28 17:43 G 45761967.10 45761967.24 45761967.39 0.0277 0.0007

Saturn 120580-02-25 06:55 G 45762055.67 45762055.79 45762055.92 0.0278 0.0151

Jupiter 120580-02-25 17:00 G 45762056.07 45762056.21 45762056.35 0.0541 0.0124

Mars 120582-09-01 10:46 G 45762974.84 45762974.95 45762975.06 0.1602 0.1134

Jupiter 120586-04-07 13:38 G 45764288.94 45764289.07 45764289.20 0.0487 0.0296

Jupiter 120586-07-06 09:34 G 45764378.80 45764378.90 45764379.01 0.0490 0.0376

Neptune 120586-11-22 21:34 G 45764518.40 45764518.40 45764518.42 0.0088 0.0088

Neptune 120587-02-18 23:29 G 45764606.43 45764606.48 45764606.54 0.0088 0.0081

Neptune 120587-05-18 01:10 G 45764694.48 45764694.55 45764694.64 0.0088 0.0074

Neptune 120587-08-14 02:50 G 45764782.54 45764782.62 45764782.73 0.0088 0.0067

Neptune 120587-11-10 04:46 G 45764870.60 45764870.70 45764870.81 0.0088 0.0059

Neptune 120588-02-06 06:26 G 45764958.66 45764958.77 45764958.90 0.0088 0.0052

Neptune 120588-05-04 08:07 G 45765046.73 45765046.84 45765046.98 0.0088 0.0045

Neptune 120588-07-31 09:48 G 45765134.79 45765134.91 45765135.05 0.0088 0.0039

Neptune 120588-10-27 11:43 G 45765222.86 45765222.99 45765223.13 0.0088 0.0031

Neptune 120589-01-23 13:24 G 45765310.92 45765311.06 45765311.21 0.0088 0.0024

Neptune 120589-04-21 15:05 G 45765398.99 45765399.13 45765399.28 0.0088 0.0017

Neptune 120589-07-18 16:46 G 45765487.06 45765487.20 45765487.35 0.0088 0.0011

Neptune 120589-10-14 18:41 G 45765575.13 45765575.28 45765575.42 0.0088 0.0003

Neptune 120590-01-10 20:22 G 45765663.20 45765663.35 45765663.49 0.0088 0.0004

Neptune 120590-04-08 22:02 G 45765751.27   45765751.42   45765751.56 0.0088 0.0011

Neptune 120590-07-05 23:29 G 45765839.35   45765839.48   45765839.63 0.0088 0.0019

Neptune 120590-10-02 01:10 G 45765927.42   45765927.55   45765927.70 0.0088 0.0025

Neptune 120590-12-29 02:50 G 45766015.49   45766015.62   45766015.76 0.0088 0.0032

Neptune 120591-03-27 04:31 G 45766103.57   45766103.69   45766103.82 0.0088 0.0039

Neptune 120591-06-23 06:12 G 45766191.64   45766191.76   45766191.89 0.0088 0.0045

Neptune 120591-09-19 07:53 G 45766279.72   45766279.83   45766279.95 0.0088 0.0052

Jupiter 120591-12-14 19:38 G 45766366.21   45766366.32   45766366.44 0.0541 0.0304

Neptune 120591-12-16 09:19 G 45766367.80   45766367.89   45766368.01 0.0088 0.0059

Venus   120592-03-12 05:58 G 45766454.69   45766454.75   45766454.81 0.3727 0.3025

Jupiter 120592-03-13 09:05 G 45766455.80   45766455.88   45766455.95 0.0539 0.0444

Neptune 120592-03-13 10:46 G 45766455.87   45766455.95   45766456.06 0.0088 0.0067 *

Moon   120592-04-15 10:46 G 45766488.81   45766488.95   45766489.09 0.2660 0.0335

Earth   120592-04-15 12:12 G 45766488.87   45766489.01   45766489.15 0.2657 0.0438 *

Neptune 120592-06-09 12:41 G 45766543.96   45766544.03   45766544.12 0.0088 0.0073

Neptune 120592-09-05 14:07 G 45766632.04   45766632.09   45766632.16 0.0088 0.0080

Neptune 120592-12-02 15:34 G 45766720.14   45766720.15   45766720.20 0.0088 0.0087

Saturn   120594-03-18 04:46 G 45767190.55   45767190.70   45767190.85 0.0281 0.0109

Saturn   120594-06-14 22:46 G 45767279.29   45767279.45   45767279.61 0.0281 0.0074

Saturn   120594-09-11 17:14 G 45767368.16   45767368.22   45767368.28 0.0281 0.0260

Mars   120594-11-08 23:00 G 45767426.38   45767426.46   45767426.54 0.1929 0.1427

Earth   120596-10-08 06:41 G 45768125.68   45768125.78   45768125.87 0.2678 0.1611

Moon   120596-10-08 07:10 G 45768125.70   45768125.80   45768125.90 0.2673 0.1576 *

Venus   120597-09-25 23:58 G 45768478.39   45768478.50   45768478.60 0.3723 0.1086

Jupiter 120598-01-24 14:50 G 45768599.07   45768599.12   45768599.18 0.0487 0.0451

Jupiter 120598-04-24 10:17 G 45768688.78   45768688.93   45768689.08 0.0489 0.0210

Venus   120603-04-12 17:43 G 45770502.13   45770502.24   45770502.35 0.3719 0.0781

Mars   120603-05-22 03:05 G 45770541.53   45770541.63   45770541.73 0.1609 0.1209

Jupiter 120603-10-03 21:48 G 45770676.35   45770676.41   45770676.46 0.0541 0.0496

Jupiter 120604-01-01 11:29 G 45770765.87   45770765.98   45770766.11 0.0539 0.0264

Mars 120604-04-01 05:58 G 45770856.63 45770856.75 45770856.87 0.1935 0.0089

Venus 120608-10-26 11:14 G 45772525.89 45772525.97 45772526.05 0.3716 0.2583

Saturn 120609-01-19 04:46 G 45772610.61 45772610.70 45772610.79 0.0278 0.0214

Saturn 120609-04-17 18:12 G 45772699.12 45772699.26 45772699.41 0.0278 0.0059

Saturn 120609-07-15 07:38 G 45772787.69 45772787.82 45772787.96 0.0278 0.0095

Saturn 120609-10-11 20:36 G 45772876.30 45772876.36 45772876.43 0.0279 0.0247

Moon 120609-10-12 01:53 G 45772876.46 45772876.58 45772876.69 0.2670 0.0317

Earth 120609-10-12 02:22 G 45772876.48 45772876.60 45772876.72 0.2676 0.0331 *

Jupiter 120610-02-11 11:00 G 45772998.80 45772998.96 45772999.13 0.0489 0.0043

Uranus 120611-09-13 20:22 G 45773578.28 45773578.35 45773578.42 0.0138 0.0121

Uranus 120611-12-11 00:26 G 45773666.43 45773666.52 45773666.63 0.0138 0.0101

Uranus 120612-03-08 04:46 G 45773754.59 45773754.70 45773754.82 0.0138 0.0081

Uranus 120612-06-04 09:05 G 45773842.75 45773842.88 45773843.01 0.0138 0.0060

Uranus 120612-08-31 13:24 G 45773930.92 45773931.06 45773931.20 0.0138 0.0040

Mars 120612-10-11 06:55 G 45773971.64 45773971.79 45773971.95 0.1605 0.0117

Uranus 120612-11-27 17:29 G 45774019.09 45774019.23 45774019.38 0.0138 0.0020

Uranus 120613-02-23 21:48 G 45774107.26 45774107.41 45774107.55 0.0138 0.0004

Uranus 120613-05-23 01:53 G 45774195.43 45774195.58 45774195.72 0.0138 0.0020

Uranus 120613-08-19 05:58 G 45774283.61 45774283.75 45774283.89 0.0138 0.0040

Mars 120613-08-22 12:26 G 45774286.94 45774287.02 45774287.11 0.1939 0.1338

Uranus 120613-11-15 10:02 G 45774371.79 45774371.92 45774372.05 0.0138 0.0060

Uranus 120614-02-11 14:07 G 45774459.97 45774460.09 45774460.21 0.0138 0.0079

Uranus 120614-05-10 17:58 G 45774548.16 45774548.25 45774548.36 0.0138 0.0099

Uranus 120614-08-06 22:02 G 45774636.35 45774636.42 45774636.50 0.0139 0.0119

Uranus 120614-11-03 02:07 G 45774724.58 45774724.59 45774724.60 0.0139 0.0138

Jupiter 120615-10-20 13:53 G 45775075.94 45775076.08 45775076.22 0.0539 0.0077

Venus 120615-11-23 21:48 G 45775110.29 45775110.41 45775110.52 0.3652 0.1891

Venus 120621-06-08 23:14 G 45777134.34 45777134.47 45777134.60 0.3656 0.1245

Jupiter 120621-11-30 11:43 G 45777308.83 45777308.99 45777309.15 0.0488 0.0122

Mars 120622-03-03 11:14 G 45777401.84 45777401.97 45777402.09 0.1602 0.0961

Moon 120622-10-14 21:05 G 45777627.30 45777627.38 45777627.45 0.2678 0.2033

Earth 120622-10-14 21:48 G 45777627.34 45777627.41 45777627.47 0.2674 0.2216 *

Saturn 120623-08-06 05:29 G 45777922.60 45777922.73 45777922.87 0.0281 0.0155

Saturn 120623-11-02 23:29 G 45778011.32 45778011.48 45778011.65 0.0281 0.0029

Saturn 120624-01-30 17:58 G 45778100.15 45778100.25 45778100.36 0.0281 0.0214

Moon 120625-04-14 16:17 G 45778540.08 45778540.18 45778540.27 0.2662 0.1845

Earth 120625-04-14 16:46 G 45778540.09 45778540.20 45778540.30 0.2655 0.1686 *

Jupiter 120627-08-08 15:19 G 45779386.01 45779386.14 45779386.28 0.0541 0.0125

Jupiter 120633-09-18 12:41 G 45781618.90 45781619.03 45781619.17 0.0487 0.0282

Jupiter 120633-12-17 08:36 G 45781708.76 45781708.86 45781708.96 0.0489 0.0389

Mars 120634-05-10 23:00 G 45781853.39 45781853.46 45781853.53 0.1930 0.1577

Pluto 120637-07-02 19:24 G 45783002.29 45783002.31 45783002.36 0.0085 0.0083

Pluto 120637-09-28 21:05 G 45783090.30 45783090.38 45783090.47 0.0085 0.0064

Pluto 120637-12-25 22:17 G 45783178.32 45783178.43 45783178.54 0.0085 0.0047

Pluto 120638-03-23 23:29 G 45783266.36 45783266.48 45783266.61 0.0085 0.0030

Earth 120638-04-17 17:58 G 45783291.12 45783291.25 45783291.38 0.2658 0.0991

Moon 120638-04-17 18:55 G 45783291.16 45783291.29 45783291.41 0.2663 0.1198 *

Saturn 120638-06-08 07:10 G 45783342.74 45783342.80 45783342.87 0.0277 0.0249

Pluto 120638-06-20 00:41 G 45783354.41 45783354.53 45783354.67 0.0085 0.0013

Saturn 120638-09-04 20:50 G 45783431.23 45783431.37 45783431.51 0.0277 0.0093

Pluto 120638-09-16 02:07 G 45783442.46 45783442.59 45783442.72 0.0085 0.0005

Saturn 120638-12-02 10:17 G 45783519.79 45783519.93 45783520.07 0.0277 0.0060

Pluto 120638-12-13 03:05 G 45783530.51 45783530.63 45783530.77 0.0085 0.0022

Saturn 120639-02-28 23:14 G 45783608.38 45783608.47 45783608.57 0.0278 0.0211

Pluto 120639-03-11 04:17 G 45783618.57 45783618.68 45783618.81 0.0085 0.0039

Jupiter 120639-05-27 17:43 G 45783696.13 45783696.24 45783696.36 0.0541 0.0310

Pluto 120639-06-07 05:43 G 45783706.64 45783706.74 45783706.84 0.0084 0.0055

Jupiter 120639-08-25 07:10 G 45783785.73 45783785.80 45783785.88 0.0539 0.0440

Pluto 120639-09-03 06:41 G 45783794.72 45783794.78 45783794.86 0.0084 0.0072

Moon 120642-10-10 11:00 G 45784927.85 45784927.96 45784928.06 0.2678 0.1366

Earth 120642-10-10 11:43 G 45784927.89 45784927.99 45784928.10 0.2678 0.1197 *

Mars 120642-11-20 03:34 G 45784968.57 45784968.65 45784968.73 0.1609 0.1375

Mars 120643-10-01 05:58 G 45785283.63 45785283.75 45785283.87 0.1935 0.0235

Jupiter 120645-07-07 13:24 G 45785929.00 45785929.06 45785929.13 0.0487 0.0444

Jupiter 120645-10-05 08:50 G 45786018.72 45786018.87 45786019.02 0.0489 0.0216

Venus 120648-10-18 04:02 G 45787127.59 45787127.67 45787127.76 0.3726 0.2389

Jupiter 120651-03-15 20:22 G 45788006.29 45788006.35 45788006.40 0.0542 0.0492

Jupiter 120651-06-13 10:17 G 45788095.81 45788095.93 45788096.05 0.0539 0.0270

Mars 120652-04-11 07:38 G 45788398.66 45788398.82 45788398.97 0.1605 0.0282

Uranus 120652-06-30 05:00 G 45788478.66 45788478.71 45788478.78 0.0140 0.0131

Uranus 120652-09-26 10:46 G 45788566.86 45788566.95 45788567.07 0.0140 0.0107

Saturn 120652-12-23 04:02 G 45788654.57 45788654.67 45788654.77 0.0281 0.0224

Uranus 120652-12-23 16:31 G 45788655.07 45788655.19 45788655.34 0.0140 0.0084

Mars 120653-02-20 12:41 G 45788713.93 45788714.03 45788714.12 0.1939 0.1176

Saturn 120653-03-21 21:48 G 45788743.25 45788743.41 45788743.58 0.0281 0.0044

Uranus 120653-03-21 22:31 G 45788743.30 45788743.44 45788743.60 0.0140 0.0060 *

Uranus 120653-06-18 04:31 G 45788831.53 45788831.69 45788831.86 0.0140 0.0036

Saturn 120653-06-18 16:02 G 45788832.03 45788832.17 45788832.32 0.0281 0.0141

Uranus 120653-09-14 10:31 G 45788919.77 45788919.94 45788920.11 0.0140 0.0012

Uranus 120653-12-11 16:31 G 45789008.02 45789008.19 45789008.36 0.0140 0.0012

Uranus 120654-03-09 22:31 G 45789096.27 45789096.44 45789096.60 0.0140 0.0036

Venus 120654-05-03 22:02 G 45789151.31 45789151.42 45789151.53 0.3722 0.0471

Uranus 120654-06-06 04:17 G 45789184.54 45789184.68 45789184.84 0.0140 0.0061

Uranus 120654-09-02 10:31 G 45789272.81 45789272.94 45789273.08 0.0139 0.0084

Uranus 120654-11-29 16:31 G 45789361.09 45789361.19 45789361.30 0.0139 0.0109

Uranus 120655-02-25 22:46 G 45789449.41 45789449.45 45789449.50 0.0139 0.0134

Moon 120655-10-13 07:10 G 45789678.69 45789678.80 45789678.92 0.2682 0.0741

Earth 120655-10-13 07:24 G 45789678.70 45789678.81 45789678.92 0.2676 0.0736 *

Jupiter 120657-07-24 09:34 G 45790328.74 45790328.90 45790329.07 0.0489 0.0054

Venus 120659-11-17 15:48 G 45791175.05 45791175.16 45791175.26 0.3718 0.1380

Mars 120661-09-01 11:43 G 45791828.85 45791828.99 45791829.13 0.1602 0.0797

Jupiter 120663-04-01 12:41 G 45792405.90 45792406.03 45792406.17 0.0540 0.0090

Venus 120665-06-02 09:19 G 45793198.83 45793198.89 45793198.94 0.3715 0.3161

Saturn 120668-01-22 20:50 G 45794163.25 45794163.37 45794163.50 0.0278 0.0154

Saturn 120668-04-20 10:31 G 45794251.79 45794251.94 45794252.08 0.0278 0.0007

Saturn 120668-07-17 23:43 G 45794340.37 45794340.49 45794340.61 0.0278 0.0153

Earth 120668-10-15 02:50 G 45794429.60 45794429.62 45794429.64 0.2673 0.2609

Jupiter 120669-05-12 10:31 G 45794638.78 45794638.94 45794639.10 0.0488 0.0112

Neptune 120670-10-21 03:48 G 45795165.65 45795165.66 45795165.72 0.0089 0.0087

Neptune 120671-01-17 06:55 G 45795253.71 45795253.79 45795253.87 0.0089 0.0078

Neptune 120671-04-15 09:34 G 45795341.80 45795341.90 45795342.01 0.0089 0.0070

Earth 120671-04-15 22:31 G 45795342.31 45795342.44 45795342.56 0.2656 0.1160

Moon 120671-04-15 23:43 G 45795342.36 45795342.49 45795342.62 0.2656 0.0962 *

Neptune 120671-07-12 11:58 G 45795429.89 45795430.00 45795430.14 0.0089 0.0062

Neptune 120671-10-08 14:36 G 45795517.99 45795518.11 45795518.26 0.0089 0.0054

Neptune 120672-01-04 17:29 G 45795606.09 45795606.23 45795606.39 0.0089 0.0045

Neptune 120672-04-01 20:07 G 45795694.19 45795694.34 45795694.51 0.0089 0.0037

Neptune 120672-06-28 22:46 G 45795782.30 45795782.45 45795782.63 0.0089 0.0029

Venus 120672-06-29 21:48 G 45795783.28 45795783.41 45795783.54 0.3653 0.0921

Neptune 120672-09-25 01:38 G 45795870.41 45795870.57 45795870.75 0.0089 0.0020

Neptune 120672-12-22 04:31 G 45795958.52 45795958.69 45795958.86 0.0089 0.0012

Neptune 120673-03-20 07:10 G 45796046.63 45796046.80 45796046.98 0.0089 0.0004

Neptune 120673-06-16 10:02 G 45796134.75 45796134.92 45796135.10 0.0089 0.0006

Neptune 120673-09-12 12:41 G 45796222.87 45796223.03 45796223.21 0.0089 0.0015

Mars 120673-11-08 23:00 G 45796280.42 45796280.46 45796280.51 0.1929 0.1736

Neptune 120673-12-09 15:34 G 45796310.99 45796311.15 45796311.32 0.0089 0.0023

Neptune 120674-03-07 18:26 G 45796399.11 45796399.27 45796399.43 0.0089 0.0031

Neptune 120674-06-03 21:05 G 45796487.23 45796487.38 45796487.54 0.0089 0.0040

Neptune 120674-08-31 00:12 G 45796575.36 45796575.51 45796575.65 0.0089 0.0049

Neptune 120674-11-27 02:50 G 45796663.49 45796663.62 45796663.76 0.0089 0.0057

Jupiter 120675-01-18 14:50 G 45796715.99 45796716.12 45796716.26 0.0540 0.0103

Neptune 120675-02-23 05:29 G 45796751.63 45796751.73 45796751.86 0.0089 0.0066

Neptune 120675-05-22 08:22 G 45796839.77 45796839.85 45796839.96 0.0089 0.0075

Neptune 120675-08-18 11:29 G 45796927.93 45796927.98 45796928.04 0.0089 0.0084

Venus 120678-01-13 23:14 G 45797807.37 45797807.47 45797807.58 0.3657 0.2258

Jupiter 120681-02-28 11:29 G 45798948.85 45798948.98 45798949.12 0.0487 0.0272

Jupiter 120681-05-29 07:24 G 45799038.72 45799038.81 45799038.91 0.0489 0.0400

Saturn 120682-05-12 04:17 G 45799386.65 45799386.68 45799386.73 0.0282 0.0274

Mars 120682-05-21 04:02 G 45799395.64 45799395.67 45799395.71 0.1609 0.1558

Saturn 120682-08-08 22:17 G 45799475.28 45799475.43 45799475.59 0.0281 0.0093

Saturn 120682-11-05 16:31 G 45799564.03 45799564.19 45799564.35 0.0281 0.0091

Saturn 120683-02-02 10:46 G 45799652.94 45799652.95 45799652.98 0.0281 0.0278

Mars 120683-04-01 05:58 G 45799710.63 45799710.75 45799710.87 0.1934 0.0371

Earth 120684-04-17 23:43 G 45800093.38 45800093.49 45800093.61 0.2658 0.1539

Moon 120684-04-17 23:58 G 45800093.39 45800093.50 45800093.62 0.2651 0.1577 *

Jupiter 120686-11-06 16:17 G 45801026.06 45801026.18 45801026.29 0.0541 0.0309

Jupiter 120687-02-04 05:43 G 45801115.66 45801115.74 45801115.82 0.0539 0.0441

Earth 120688-10-10 16:46 G 45801730.09 45801730.20 45801730.32 0.2677 0.0796

Moon 120688-10-10 17:14 G 45801730.11 45801730.22 45801730.34 0.2682 0.0686 *

Mars 120691-10-11 07:53 G 45802825.68 45802825.83 45802825.99 0.1605 0.0445

Mars 120692-08-21 12:41 G 45803140.93 45803141.03 45803141.14 0.1939 0.1013

Jupiter 120692-12-17 12:41 G 45803258.96 45803259.03 45803259.11 0.0487 0.0428

Jupiter 120693-03-17 08:07 G 45803348.69 45803348.84 45803348.98 0.0489 0.0232

Uranus 120695-07-07 22:46 G 45804191.45 45804191.45 45804191.46 0.0138 0.0138

Uranus 120695-10-04 03:05 G 45804279.56 45804279.63 45804279.71 0.0138 0.0117

Uranus 120695-12-31 07:24 G 45804367.71 45804367.81 45804367.92 0.0138 0.0097

Uranus 120696-03-28 11:43 G 45804455.87 45804455.99 45804456.12 0.0138 0.0076

Uranus 120696-06-24 16:02 G 45804544.04 45804544.17 45804544.30 0.0138 0.0056

Uranus 120696-09-20 20:07 G 45804632.20 45804632.34 45804632.49 0.0138 0.0036

Uranus 120696-12-18 00:26 G 45804720.37 45804720.52 45804720.67 0.0138 0.0016

Uranus 120697-03-16 04:31 G 45804808.55 45804808.69 45804808.84 0.0138 0.0006

Saturn 120697-06-10 23:29 G 45804895.38 45804895.48 45804895.59 0.0277 0.0187

Uranus 120697-06-12 08:50 G 45804896.72 45804896.87 45804897.01 0.0138 0.0025

Saturn 120697-09-07 13:10 G 45804983.91 45804984.05 45804984.19 0.0277 0.0032

Uranus 120697-09-08 12:55 G 45804984.90 45804985.04 45804985.18 0.0138 0.0044

Saturn 120697-12-05 02:22 G 45805072.47 45805072.60 45805072.73 0.0277 0.0120

Uranus 120697-12-05 16:46 G 45805073.08 45805073.20 45805073.34 0.0138 0.0065

Saturn 120698-03-03 15:34 G 45805161.12 45805161.15 45805161.18 0.0278 0.0270

Uranus 120698-03-03 21:05 G 45805161.27 45805161.38 45805161.49 0.0138 0.0084

Uranus 120698-05-31 00:55 G 45805249.45 45805249.54 45805249.64 0.0138 0.0104

Jupiter 120698-08-25 18:26 G 45805336.21 45805336.27 45805336.32 0.0542 0.0498

Uranus 120698-08-27 05:14 G 45805337.65 45805337.72 45805337.78 0.0139 0.0123

Jupiter 120698-11-23 08:22 G 45805425.73 45805425.85 45805425.97 0.0540 0.0265

Venus   120699-11-09 08:07 G 45805776.84 45805776.84 45805776.84 0.3728 0.3726

Mars   120701-03-03 12:12 G 45806255.86 45806256.01 45806256.15 0.1602 0.0635

Earth   120701-10-14 12:26 G 45806480.91 45806481.02 45806481.13 0.2675 0.1132

Moon   120701-10-14 13:10 G 45806480.95 45806481.05 45806481.16 0.2674 0.1226 *

Jupiter 120705-01-04 08:22 G 45807658.69 45807658.85 45807659.01 0.0488 0.0060

Venus   120705-05-26 02:07 G 45807800.50 45807800.59 45807800.69 0.3725 0.1763

Jupiter 120710-09-12 11:29 G 45809735.84 45809735.98 45809736.11 0.0540 0.0093

Venus   120710-12-09 20:07 G 45809824.23 45809824.34 45809824.45 0.3721 0.0159

Saturn 120711-12-27 20:50 G 45810207.24 45810207.37 45810207.51 0.0281 0.0160

Saturn 120712-03-25 14:50 G 45810295.96 45810296.12 45810296.29 0.0281 0.0023

Saturn 120712-06-22 09:05 G 45810384.78 45810384.88 45810385.00 0.0281 0.0207

Mars   120713-05-10 23:14 G 45810707.44 45810707.47 45810707.49 0.1929 0.1885

Venus   120716-06-24 13:38 G 45811847.98 45811848.07 45811848.16 0.3718 0.1960

Jupiter 120716-10-23 09:19 G 45811968.73 45811968.89 45811969.05 0.0488 0.0102

Moon   120717-04-17 03:19 G 45812144.50 45812144.64 45812144.78 0.2651 0.0712

Earth   120717-04-17 04:17 G 45812144.54 45812144.68 45812144.82 0.2656 0.0619 *

Earth   120721-10-10 02:07 G 45813781.54 45813781.59 45813781.64 0.2679 0.2354

Moon 120721-10-10 02:50 G 45813781.57 45813781.62 45813781.68 0.2681 0.2293 *

Jupiter 120722-07-01 13:53 G 45814045.94 45814046.08 45814046.22 0.0540 0.0091

Mars 120722-10-01 06:12 G 45814137.64 45814137.76 45814137.87 0.1934 0.0536

Venus 120723-07-22 20:36 G 45814432.29 45814432.36 45814432.44 0.3650 0.2993

Saturn 120726-10-29 23:43 G 45815627.43 45815627.49 45815627.55 0.0277 0.0248

Saturn 120727-01-26 13:24 G 45815715.92 45815716.06 45815716.19 0.0278 0.0093

Saturn 120727-04-25 02:36 G 45815804.47 45815804.61 45815804.76 0.0278 0.0061

Saturn 120727-07-22 15:48 G 45815893.07 45815893.16 45815893.25 0.0278 0.0212

Jupiter 120728-08-11 10:17 G 45816278.79 45816278.93 45816279.07 0.0488 0.0263

Jupiter 120728-11-09 06:12 G 45816368.67 45816368.76 45816368.85 0.0490 0.0410

Venus 120729-02-04 21:48 G 45816456.27 45816456.41 45816456.55 0.3654 0.0050

Moon 120730-04-20 04:31 G 45816895.59 45816895.69 45816895.79 0.2661 0.1852

Earth 120730-04-20 05:43 G 45816895.65 45816895.74 45816895.82 0.2658 0.2093 *

Mars 120731-04-12 08:36 G 45817252.71 45817252.86 45817253.01 0.1606 0.0619

Mars 120732-02-21 12:55 G 45817567.93 45817568.04 45817568.14 0.1939 0.0861

Jupiter 120734-04-19 15:48 G 45818356.05 45818356.16 45818356.28 0.0541 0.0283

Jupiter 120734-07-18 05:14 G 45818445.66 45818445.72 45818445.79 0.0538 0.0464

Venus 120734-08-21 23:43 G 45818480.43 45818480.49 45818480.54 0.3659 0.3309

Earth 120734-10-12 22:02 G 45818532.30 45818532.42 45818532.53 0.2677 0.0398

Moon 120734-10-12 22:17 G 45818532.31 45818532.43 45818532.55 0.2671 0.0248 *

Uranus 120736-07-21 11:58 G 45819179.94 45819180.00 45819180.09 0.0140 0.0125

Uranus 120736-10-17 17:58 G 45819268.14 45819268.25 45819268.37 0.0140 0.0101

Uranus 120737-01-13 23:43 G 45819356.36 45819356.49 45819356.63 0.0140 0.0078

Uranus 120737-04-12 05:29 G 45819444.58 45819444.73 45819444.89 0.0140 0.0055

Uranus 120737-07-09 11:29 G 45819532.82 45819532.98 45819533.15 0.0140 0.0031

Uranus 120737-10-05 17:29 G 45819621.06 45819621.23 45819621.40 0.0140 0.0007

Uranus 120738-01-01 23:29 G 45819709.31 45819709.48 45819709.65 0.0140 0.0017

Uranus 120738-03-31 05:29 G 45819797.57 45819797.73 45819797.89 0.0140 0.0042

Uranus 120738-06-27 11:29 G 45819885.83 45819885.98 45819886.13 0.0139 0.0066

Uranus 120738-09-23 17:29 G 45819974.11 45819974.23 45819974.36 0.0139 0.0090

Uranus 120738-12-20 23:43 G 45820062.39 45820062.49 45820062.59 0.0139 0.0115

Uranus 120739-03-19 05:58 G 45820150.75 45820150.75 45820150.75 0.0139 0.0139

Jupiter 120740-05-30 11:29 G 45820588.90 45820588.98 45820589.06 0.0487 0.0418

Jupiter 120740-08-28 06:55 G 45820678.64 45820678.79 45820678.93 0.0489 0.0243

Mars 120740-09-01 12:41 G 45820682.88 45820683.03 45820683.18 0.1602 0.0465

Saturn 120741-05-15 20:50 G 45820939.27 45820939.37 45820939.48 0.0282 0.0215

Saturn 120741-08-12 14:50 G 45821027.96 45821028.12 45821028.29 0.0281 0.0033

Saturn 120741-11-09 09:05 G 45821116.75 45821116.88 45821117.03 0.0281 0.0152

Jupiter 120746-02-05 16:46 G 45822666.15 45822666.20 45822666.26 0.0542 0.0497

Jupiter 120746-05-06 06:55 G 45822755.67 45822755.79 45822755.91 0.0540 0.0267

Moon 120747-10-15 16:46 G 45823283.10 45823283.20 45823283.30 0.2672 0.1340

Earth 120747-10-15 17:29 G 45823283.14 45823283.23 45823283.33 0.2675 0.1534 *

Mars 120750-01-22 17:00 G 45824113.17 45824113.21 45824113.26 0.1599 0.1521

Neptune 120751-08-21 21:19 G 45824689.35 45824689.39 45824689.44 0.0088 0.0084

Neptune 120751-11-17 23:00 G 45824777.40 45824777.46 45824777.54 0.0088 0.0077

Neptune 120752-02-14 00:41 G 45824865.45 45824865.53 45824865.63 0.0088 0.0070

Neptune 120752-05-12 02:36 G 45824953.51 45824953.61 45824953.72 0.0088 0.0062

Jupiter 120752-06-16 07:38 G 45824988.65 45824988.82 45824988.98 0.0488 0.0077

Neptune 120752-08-08 04:17 G 45825041.58 45825041.68 45825041.80 0.0088 0.0055

Neptune 120752-11-04 05:58 G 45825129.64 45825129.75 45825129.89 0.0088 0.0049

Neptune 120753-01-31 07:38 G 45825217.71 45825217.82 45825217.96 0.0088 0.0042

Neptune 120753-04-29 09:34 G 45825305.77 45825305.90 45825306.04 0.0088 0.0034

Neptune 120753-07-26 11:29 G 45825393.84 45825393.98 45825394.12 0.0088 0.0027

Neptune 120753-10-22 13:10 G 45825481.91 45825482.05 45825482.19 0.0088 0.0020

Neptune 120754-01-18 14:50 G 45825569.98 45825570.12 45825570.27 0.0088 0.0013

Neptune 120754-04-16 16:31 G 45825658.05 45825658.19 45825658.34 0.0088 0.0006

Neptune 120754-07-13 18:12 G 45825746.12 45825746.26 45825746.41 0.0088 0.0002

Neptune 120754-10-09 19:53 G 45825834.19 45825834.33 45825834.48 0.0088 0.0008

Neptune 120755-01-05 21:34 G 45825922.26 45825922.40 45825922.55 0.0088 0.0015

Neptune 120755-04-03 23:14 G 45826010.33 45826010.47 45826010.61 0.0088 0.0022

Neptune 120755-07-01 00:55 G 45826098.41   45826098.54   45826098.68 0.0088 0.0029

Neptune 120755-09-27 02:22 G 45826186.48   45826186.60   45826186.74 0.0088 0.0037

Neptune 120755-12-24 04:17 G 45826274.56   45826274.68   45826274.81 0.0088 0.0043

Neptune 120756-03-21 05:58 G 45826362.63   45826362.75   45826362.87 0.0088 0.0049

Saturn   120756-06-14 16:02 G 45826448.04   45826448.17   45826448.31 0.0277 0.0125

Venus   120756-06-16 06:12 G 45826449.70   45826449.76   45826449.82 0.3728 0.3087

Neptune 120756-06-17 07:24 G 45826450.71   45826450.81   45826450.93 0.0088 0.0056

Saturn   120756-09-11 05:29 G 45826536.59   45826536.73   45826536.88 0.0277 0.0030

Neptune 120756-09-13 09:05 G 45826538.79   45826538.88   45826538.99 0.0088 0.0063

Saturn   120756-12-08 18:41 G 45826625.18   45826625.28   45826625.39 0.0277 0.0181

Neptune 120756-12-10 10:31 G 45826626.87   45826626.94   45826627.04 0.0088 0.0070

Neptune 120757-03-08 12:26 G 45826714.95   45826715.02   45826715.09 0.0088 0.0076

Neptune 120757-06-04 13:53 G 45826803.04   45826803.08   45826803.13 0.0088 0.0083

Jupiter 120758-02-22 09:34 G 45827065.76   45827065.90   45827066.03 0.0540 0.0087

Venus   120761-12-31 00:12 G 45828473.41   45828473.51   45828473.62 0.3724 0.1146

Mars   120762-04-01 06:12 G 45828564.65   45828564.76   45828564.88 0.1934 0.0704

Moon   120763-04-18 09:34 G 45828946.76   45828946.90   45828947.04 0.2662 0.0070

Earth   120763-04-18 10:02 G 45828946.78   45828946.92   45828947.06 0.2656 0.0085 *

Jupiter 120764-04-04 07:53 G 45829298.67   45829298.83   45829299.00 0.0488 0.0094

Venus   120767-07-16 17:58 G 45830497.15   45830497.25   45830497.36 0.3720 0.0740

Moon   120767-10-11 06:55 G 45830583.72   45830583.79   45830583.87 0.2672 0.2036

Earth   120767-10-11 07:24 G 45830583.72   45830583.81   45830583.89 0.2679 0.1933 *

Jupiter 120769-12-11 12:12 G 45831375.88   45831376.01   45831376.15 0.0541 0.0091

Saturn   120770-10-02 20:07 G 45831671.31   45831671.34   45831671.38 0.0282 0.0275

Mars   120770-10-11 09:05 G 45831679.74   45831679.88   45831680.02 0.1606 0.0789

Saturn   120770-12-30 13:53 G 45831759.93   45831760.08   45831760.24 0.0281 0.0096

Saturn   120771-03-29 08:07 G 45831848.68   45831848.84   45831849.00 0.0281 0.0088

Saturn   120771-06-26 02:36 G 45831937.58   45831937.61   45831937.64 0.0281 0.0274

Mars   120771-08-22 12:55 G 45831994.93   45831995.04   45831995.15 0.1939 0.0709

Venus   120773-01-29 11:43 G 45832520.91   45832520.99   45832521.07 0.3717 0.2544

Jupiter 120776-01-22 09:05 G 45833608.74 45833608.88 45833609.02 0.0487 0.0253

Earth 120776-04-20 11:29 G 45833697.97 45833697.98 45833697.99 0.2659 0.2643

Jupiter 120776-04-21 05:00 G 45833698.62 45833698.71 45833698.79 0.0489 0.0419

Uranus 120779-07-29 05:43 G 45834892.71 45834892.74 45834892.78 0.0138 0.0133

Uranus 120779-10-25 10:02 G 45834980.84 45834980.92 45834981.01 0.0138 0.0113

Uranus 120780-01-21 14:22 G 45835069.00 45835069.10 45835069.22 0.0138 0.0092

Venus 120780-02-26 20:36 G 45835105.25 45835105.36 45835105.47 0.3651 0.2055

Mars 120780-03-02 13:10 G 45835109.90 45835110.05 45835110.21 0.1602 0.0299

Uranus 120780-04-18 18:41 G 45835157.16 45835157.28 45835157.41 0.0138 0.0072

Uranus 120780-07-15 23:00 G 45835245.33 45835245.46 45835245.60 0.0138 0.0051

Uranus 120780-10-12 03:19 G 45835333.49 45835333.64 45835333.78 0.0138 0.0031

Moon 120780-10-13 02:07 G 45835334.47 45835334.59 45835334.71 0.2677 0.0081

Earth 120780-10-13 03:05 G 45835334.51 45835334.63 45835334.75 0.2677 0.0067 *

Uranus 120781-01-08 07:24 G 45835421.67 45835421.81 45835421.96 0.0138 0.0011

Uranus 120781-04-06 11:43 G 45835509.84 45835509.99 45835510.13 0.0138 0.0010

Uranus 120781-07-03 15:48 G 45835598.02 45835598.16 45835598.30 0.0138 0.0029

Jupiter 120781-09-29 14:36 G 45835685.99 45835686.11 45835686.23 0.0541 0.0275

Uranus 120781-09-29 19:53 G 45835686.20 45835686.33 45835686.47 0.0138 0.0049 *

Uranus 120781-12-26 23:58 G 45835774.38 45835774.50 45835774.63 0.0138 0.0069

Jupiter 120781-12-28 04:02 G 45835775.61 45835775.67 45835775.74 0.0539 0.0473

Uranus 120782-03-25 04:02 G 45835862.56 45835862.67 45835862.78 0.0138 0.0089

Uranus 120782-06-21 07:53 G 45835950.75 45835950.83 45835950.93 0.0139 0.0109

Uranus 120782-09-17 11:58 G 45836038.96 45836039.00 45836039.06 0.0139 0.0128

Venus 120785-09-11 22:02 G 45837129.28 45837129.42 45837129.55 0.3655 0.1053

Saturn 120785-11-01 16:17 G 45837180.07 45837180.18 45837180.28 0.0277 0.0186

Saturn 120786-01-29 05:43 G 45837268.60 45837268.74 45837268.88 0.0277 0.0031

Saturn 120786-04-27 18:55 G 45837357.16 45837357.29 45837357.42 0.0278 0.0122

Saturn 120786-07-25 07:53 G 45837445.81 45837445.83 45837445.87 0.0278 0.0272

Jupiter 120787-11-10 10:02 G 45837918.84 45837918.92 45837919.01 0.0487 0.0411

Pluto 120787-11-28 16:31 G 45837937.15 45837937.19 45837937.27 0.0059 0.0056

Jupiter 120788-02-08 05:29 G 45838008.59 45838008.73 45838008.87 0.0489 0.0250

Pluto 120788-02-24 17:43 G 45838025.15 45838025.24 45838025.38 0.0059 0.0048

Pluto 120788-05-22 18:55 G 45838113.17 45838113.29 45838113.46 0.0059 0.0040

Pluto 120788-08-18 20:36 G 45838201.21 45838201.36 45838201.54 0.0059 0.0031

Pluto 120788-11-14 21:48 G 45838289.25 45838289.41 45838289.61 0.0059 0.0023

Pluto 120789-02-10 23:29 G 45838377.29 45838377.48 45838377.68 0.0059 0.0014

Pluto 120789-05-10 00:55 G 45838465.35 45838465.54 45838465.74 0.0059 0.0006

Mars 120789-07-23 17:43 G 45838540.16 45838540.24 45838540.32 0.1599 0.1348

Pluto 120789-08-06 02:22 G 45838553.40 45838553.60 45838553.80 0.0059 0.0003

Pluto 120789-11-02 03:34 G 45838641.46 45838641.65 45838641.85 0.0059 0.0011

Pluto 120790-01-29 04:31 G 45838729.52 45838729.69 45838729.90 0.0059 0.0021

Pluto 120790-04-27 05:58 G 45838817.59 45838817.75 45838817.94 0.0059 0.0029

Pluto 120790-07-24 07:10 G 45838905.67 45838905.80 45838905.98 0.0059 0.0037

Pluto 120790-10-20 08:36 G 45838993.76 45838993.86 45838994.01 0.0059 0.0046

Pluto 120791-01-16 09:48 G 45839081.86 45839081.91 45839082.02 0.0059 0.0055

Jupiter 120793-07-18 16:31 G 45839996.13 45839996.19 45839996.26 0.0541 0.0470

Moon 120793-10-15 22:02 G 45840085.34 45840085.42 45840085.51 0.2680 0.1834

Earth 120793-10-15 22:31 G 45840085.36 45840085.44 45840085.52 0.2675 0.1928 *

Jupiter 120793-10-16 06:41 G 45840085.66 45840085.78 45840085.89 0.0539 0.0291

Moon 120796-04-15 14:50 G 45840998.04 45840998.12 45840998.19 0.2661 0.2204

Earth 120796-04-15 14:36 G 45840998.04 45840998.11 45840998.19 0.2654 0.2181 *

Jupiter 120799-11-27 06:26 G 45842318.60 45842318.77 45842318.93 0.0488 0.0087

Saturn 120800-05-18 13:38 G 45842491.94 45842492.07 45842492.21 0.0281 0.0153

Saturn 120800-08-15 07:38 G 45842580.66 45842580.82 45842580.99 0.0281 0.0031

Saturn 120800-11-12 02:07 G 45842669.49 45842669.59 45842669.70 0.0281 0.0215

Mars 120801-09-30 06:12 G 45842991.65 45842991.76 45842991.87 0.1934 0.0835

Jupiter 120805-08-04 07:53 G 45844395.70 45844395.83 45844395.97 0.0540 0.0090

Earth 120809-04-18 15:48 G 45845749.02 45845749.16 45845749.30 0.2657 0.0460

Moon 120809-04-18 17:00 G 45845749.08 45845749.21 45845749.35 0.2658 0.0694 *

Mars 120810-04-11 09:34 G 45846106.77 45846106.90 45846107.03 0.1606 0.0955

Mars 120811-02-20 13:10 G 45846421.93 45846422.05 45846422.16 0.1939 0.0533

Jupiter 120811-09-15 07:10 G 45846628.64 45846628.80 45846628.97 0.0488 0.0077

Venus 120813-01-21 04:17 G 45847122.60 45847122.68 45847122.77 0.3727 0.2455

Moon 120813-10-11 11:29 G 45847385.89 45847385.98 45847386.08 0.2681 0.1613

Earth 120813-10-11 12:26 G 45847385.92 45847386.02 45847386.12 0.2679 0.1520 *

Saturn 120815-03-21 19:10 G 45847912.21 45847912.30 45847912.39 0.0277 0.0215

Saturn 120815-06-18 08:50 G 45848000.73 45848000.87 45848001.01 0.0277 0.0060

Saturn 120815-09-14 22:02 G 45848089.29 45848089.42 45848089.56 0.0277 0.0093

Saturn 120815-12-12 11:14 G 45848177.90 45848177.97 45848178.04 0.0277 0.0243

Jupiter 120817-05-23 10:17 G 45848705.79 45848705.93 45848706.07 0.0541 0.0098

Venus 120818-08-06 22:17 G 45849146.32 45849146.43 45849146.54 0.3723 0.0537

Mars 120819-09-01 13:38 G 45849536.92 45849537.07 45849537.23 0.1603 0.0136

Uranus 120820-08-10 19:10 G 45849881.22 45849881.30 45849881.39 0.0140 0.0119

Uranus 120820-11-07 00:55 G 45849969.42 45849969.54 45849969.67 0.0140 0.0096

Uranus 120821-02-03 06:55 G 45850057.64 45850057.79 45850057.93 0.0140 0.0072

Uranus 120821-05-02 12:41 G 45850145.87 45850146.03 45850146.19 0.0140 0.0049

Uranus 120821-07-29 18:41 G 45850234.11 45850234.28 45850234.44 0.0140 0.0025

Uranus 120821-10-26 00:26 G 45850322.35 45850322.52 45850322.69 0.0140 0.0002

Uranus 120822-01-22 06:26 G 45850410.60 45850410.77 45850410.94 0.0140 0.0023

Uranus 120822-04-20 12:12 G 45850498.86 45850499.01 45850499.18 0.0140 0.0048

Uranus 120822-07-17 18:26 G 45850587.13 45850587.27 45850587.42 0.0139 0.0072

Uranus 120822-10-14 00:12 G 45850675.40 45850675.51 45850675.65 0.0139 0.0097

Uranus 120823-01-10 06:26 G 45850763.70 45850763.77 45850763.87 0.0139 0.0121

Jupiter 120823-07-04 07:38 G 45850938.68 45850938.82 45850938.96 0.0487 0.0245

Jupiter 120823-10-02 03:34 G 45851028.57 45851028.65 45851028.73 0.0489 0.0426

Venus 120824-02-20 16:02 G 45851170.07 45851170.17 45851170.27 0.3719 0.1320

Moon 120826-10-14 08:07 G 45852136.72 45852136.84 45852136.95 0.2684 0.0380

Earth 120826-10-14 08:07 G 45852136.72 45852136.84 45852136.96 0.2676 0.0433 *

Mars 120829-01-21 18:12 G 45852967.16 45852967.26 45852967.36 0.1599 0.1185

Jupiter 120829-03-11 12:55 G 45853015.92 45853016.04 45853016.16 0.0542 0.0278

Jupiter 120829-06-09 02:36 G 45853105.54 45853105.61 45853105.67 0.0539 0.0472

Venus 120829-09-05 09:34 G 45853193.84 45853193.90 45853193.96 0.3715 0.3109

Saturn 120829-10-05 13:24 G 45853223.96 45853224.06 45853224.17 0.0282 0.0209

Saturn 120830-01-02 07:24 G 45853312.64 45853312.81 45853312.97 0.0281 0.0029

Saturn 120830-04-01 01:24 G 45853401.43 45853401.56 45853401.71 0.0281 0.0156

Jupiter 120835-04-22 08:50 G 45855248.78 45855248.87 45855248.96 0.0487 0.0402

Neptune 120835-07-19 03:05 G 45855336.59 45855336.63 45855336.72 0.0089 0.0082

Jupiter 120835-07-21 04:02 G 45855338.53 45855338.67 45855338.82 0.0489 0.0258

Neptune 120835-10-15 06:12 G 45855424.67 45855424.76 45855424.85 0.0089 0.0073

Neptune 120836-01-11 08:36 G 45855512.76 45855512.86 45855512.99 0.0089 0.0065

Neptune 120836-04-08 11:14 G 45855600.85 45855600.97 45855601.11 0.0089 0.0057

Neptune 120836-07-05 13:53 G 45855688.95 45855689.08 45855689.24 0.0089 0.0049

Neptune 120836-10-01 16:46 G 45855777.05 45855777.20 45855777.36 0.0089 0.0040

Venus 120836-10-02 20:36 G 45855778.23 45855778.36 45855778.49 0.3652 0.1094

Neptune 120836-12-28 19:24 G 45855865.16 45855865.31 45855865.48 0.0089 0.0032

Neptune 120837-03-26 22:17 G 45855953.27 45855953.43 45855953.60 0.0089 0.0023

Neptune 120837-06-23 00:55 G 45856041.38 45856041.54 45856041.72 0.0089 0.0015

Neptune 120837-09-19 03:48 G 45856129.49 45856129.66 45856129.83 0.0089 0.0006

Neptune 120837-12-16 06:26 G 45856217.60 45856217.77 45856217.95 0.0089 0.0003

Neptune 120838-03-14 09:19 G 45856305.72 45856305.89 45856306.06 0.0089 0.0011

Neptune 120838-06-10 11:58 G 45856393.84 45856394.00 45856394.18 0.0089 0.0019

Neptune 120838-09-06 14:36 G 45856481.96 45856482.11 45856482.29 0.0089 0.0028

Neptune 120838-12-03 17:43 G 45856570.08 45856570.24 45856570.40 0.0089 0.0036

Neptune 120839-03-01 20:22 G 45856658.21 45856658.35 45856658.51 0.0089 0.0045

Neptune 120839-05-28 23:00 G 45856746.34 45856746.46 45856746.61 0.0089 0.0054

Neptune 120839-08-25 02:07 G 45856834.47 45856834.59 45856834.72 0.0089 0.0063

Earth 120839-10-17 03:34 G 45856887.60 45856887.65 45856887.71 0.2674 0.2326

Moon 120839-10-17 04:31 G 45856887.65 45856887.69 45856887.72 0.2676 0.2505 *

Neptune 120839-11-21 04:46 G 45856922.61 45856922.70 45856922.82 0.0089 0.0072

Neptune 120840-02-17 07:38 G 45857010.76 45857010.82 45857010.91 0.0089 0.0080

Neptune 120840-05-15 10:31 G 45857098.94 45857098.94 45857098.96 0.0089 0.0089

Jupiter 120840-12-28 15:19 G 45857326.07 45857326.14 45857326.21 0.0542 0.0464

Jupiter 120841-03-28 05:14 G 45857415.61 45857415.72 45857415.84 0.0539 0.0298

Mars 120841-03-31 06:26 G 45857418.67 45857418.77 45857418.87 0.1934 0.1005

Earth 120842-04-16 20:36 G 45857800.25 45857800.36 45857800.46 0.2655 0.1658

Moon 120842-04-16 21:34 G 45857800.29 45857800.40 45857800.52 0.2653 0.1402 *

Venus 120842-04-18 22:17 G 45857802.31 45857802.43 45857802.54 0.3656 0.2078

Saturn 120844-08-07 19:10 G 45858644.30 45858644.30 45858644.31 0.0277 0.0276

Saturn 120844-11-04 08:50 G 45858732.74 45858732.87 45858733.00 0.0277 0.0120

Saturn 120845-01-31 22:17 G 45858821.29 45858821.43 45858821.58 0.0277 0.0034

Saturn 120845-04-30 11:29 G 45858909.88 45858909.98 45858910.09 0.0278 0.0185

Jupiter 120847-05-09 04:46 G 45859648.54 45859648.70 45859648.87 0.0488 0.0092

Mars 120849-10-10 10:02 G 45860533.81 45860533.92 45860534.04 0.1606 0.1136

Mars 120850-08-21 13:10 G 45860848.93 45860849.05 45860849.16 0.1938 0.0391

Jupiter 120853-01-14 07:38 G 45861725.68 45861725.82 45861725.96 0.0540 0.0112

Earth 120855-04-19 21:34 G 45862551.27 45862551.40 45862551.53 0.2657 0.1000

Moon 120855-04-19 22:02 G 45862551.29 45862551.42 45862551.55 0.2651 0.0978 *

Saturn 120859-02-22 12:55 G 45863956.00 45863956.04 45863956.10 0.0282 0.0268

Jupiter 120859-02-25 05:58 G 45863958.58 45863958.75 45863958.91 0.0488 0.0068

Mars 120859-03-02 14:22 G 45863963.94 45863964.10 45863964.26 0.1602 0.0050

Saturn 120859-05-22 06:55 G 45864044.63 45864044.79 45864044.94 0.0281 0.0088

Saturn 120859-08-19 00:55 G 45864133.39 45864133.54 45864133.70 0.0281 0.0096

Earth 120859-10-12 17:29 G 45864188.12 45864188.23 45864188.34 0.2678 0.1110

Moon 120859-10-12 17:58 G 45864188.14 45864188.25 45864188.36 0.2685 0.0977 *

Mars 120860-01-11 19:38 G 45864279.28 45864279.32 45864279.36 0.1943 0.1809

Uranus 120863-08-18 12:41 G 45865593.99 45865594.03 45865594.09 0.0138 0.0129

Uranus 120863-11-14 17:00 G 45865682.13 45865682.21 45865682.31 0.0138 0.0108

Uranus 120864-02-10 21:19 G 45865770.28 45865770.39 45865770.51 0.0138 0.0088

Uranus 120864-05-09 01:38 G 45865858.45 45865858.57 45865858.70 0.0138 0.0068

Uranus 120864-08-05 05:58 G 45865946.61 45865946.75 45865946.89 0.0138 0.0047

Uranus 120864-11-01 10:17 G 45866034.79 45866034.93 45866035.07 0.0138 0.0027

Jupiter 120864-11-02 08:50 G 45866035.73 45866035.87 45866036.01 0.0541 0.0096

Uranus 120865-01-28 14:22 G 45866122.96 45866123.10 45866123.25 0.0138 0.0008

Uranus 120865-04-26 18:41 G 45866211.13 45866211.28 45866211.42 0.0138 0.0014

Uranus 120865-07-23 22:46 G 45866299.31 45866299.45 45866299.59 0.0138 0.0034

Uranus 120865-10-20 02:50 G 45866387.49 45866387.62 45866387.76 0.0138 0.0054

Uranus 120866-01-16 06:55 G 45866475.67 45866475.79 45866475.92 0.0138 0.0073

Uranus 120866-04-14 10:46 G 45866563.86 45866563.95 45866564.07 0.0139 0.0094

Uranus 120866-07-11 15:05 G 45866652.05 45866652.13 45866652.22 0.0139 0.0113

Uranus 120866-10-07 19:10 G 45866740.26 45866740.30 45866740.34 0.0139 0.0132

Mars 120868-07-22 18:26 G 45867394.16 45867394.27 45867394.39 0.1599 0.1030

Venus 120869-08-28 02:22 G 45867795.51 45867795.60 45867795.70 0.3725 0.1834

Jupiter 120870-12-14 06:55 G 45868268.64 45868268.79 45868268.93 0.0487 0.0229

Jupiter 120871-03-14 02:36 G 45868358.55 45868358.61 45868358.68 0.0489 0.0443

Earth 120872-10-14 13:10 G 45868938.94 45868939.05 45868939.16 0.2676 0.0831

Moon 120872-10-14 13:53 G 45868938.97 45868939.08 45868939.20 0.2676 0.0906 *

Saturn 120874-03-24 11:58 G 45869464.88 45869465.00 45869465.13 0.0277 0.0149

Saturn 120874-06-21 01:38 G 45869553.42 45869553.57 45869553.71 0.0277 0.0007

Saturn 120874-09-17 14:50 G 45869642.00 45869642.12 45869642.24 0.0277 0.0157

Venus 120875-03-13 20:22 G 45869819.24 45869819.35 45869819.46 0.3722 0.0073

Jupiter 120876-08-21 10:46 G 45870345.84 45870345.95 45870346.07 0.0541 0.0287

Jupiter 120876-11-19 00:26 G 45870435.45 45870435.52 45870435.59 0.0539 0.0464

Venus 120880-09-26 14:07 G 45871842.99 45871843.09 45871843.18 0.3718 0.1913

Mars 120880-09-29 06:26 G 45871845.68 45871845.77 45871845.87 0.1933 0.1168

Jupiter 120882-10-02 07:24 G 45872578.72 45872578.81 45872578.90 0.0487 0.0396

Jupiter 120882-12-31 02:36 G 45872668.47 45872668.61 45872668.75 0.0489 0.0264

Pluto 120885-07-30 05:14 G 45873610.66 45873610.72 45873610.80 0.0085 0.0071

Pluto 120885-10-26 06:41 G 45873698.68 45873698.78 45873698.89 0.0085 0.0054

Pluto 120886-01-22 07:53 G 45873786.72 45873786.83 45873786.95 0.0085 0.0036

Venus 120886-04-12 07:38 G 45873866.80 45873866.82 45873866.83 0.3714 0.3683

Pluto 120886-04-20 09:19 G 45873874.76 45873874.89 45873875.02 0.0085 0.0019

Pluto 120886-07-17 10:31 G 45873962.81 45873962.94 45873963.07 0.0085 0.0002

Pluto 120886-10-13 11:43 G 45874050.86 45874050.99 45874051.12 0.0085 0.0015

Pluto 120887-01-09 12:55 G 45874138.92 45874139.04 45874139.16 0.0085 0.0032

Pluto 120887-04-07 14:07 G 45874226.99 45874227.09 45874227.20 0.0085 0.0049

Pluto 120887-07-04 15:05 G 45874315.06 45874315.13 45874315.22 0.0084 0.0066

Pluto 120887-09-30 16:17 G 45874403.17 45874403.18 45874403.22 0.0084 0.0082

Venus 120887-10-24 19:38 G 45874427.26 45874427.32 45874427.39 0.3649 0.3135

Moon 120888-04-17 01:53 G 45874602.46 45874602.58 45874602.71 0.2648 0.1095

Earth 120888-04-17 02:22 G 45874602.47 45874602.60 45874602.72 0.2655 0.1121 *

Jupiter 120888-06-09 13:10 G 45874655.99 45874656.05 45874656.12 0.0542 0.0472

Jupiter 120888-09-07 03:19 G 45874745.53 45874745.64 45874745.76 0.0540 0.0293

Saturn 120888-10-08 07:10 G 45874776.66 45874776.80 45874776.94 0.0282 0.0138

Saturn 120889-01-05 01:10 G 45874865.39 45874865.55 45874865.71 0.0281 0.0044

Saturn 120889-04-03 19:24 G 45874954.22 45874954.31 45874954.41 0.0281 0.0229

Mars 120889-04-10 10:46 G 45874960.86 45874960.95 45874961.04 0.1606 0.1308

Mars 120890-02-19 13:10 G 45875275.93 45875276.05 45875276.17 0.1938 0.0226

Moon 120892-10-10 03:19 G 45876239.61 45876239.64 45876239.67 0.2684 0.2577

Venus 120893-05-09 20:50 G 45876451.23 45876451.37 45876451.50 0.3653 0.0127

Jupiter 120894-10-19 03:19 G 45876978.48 45876978.64 45876978.80 0.0488 0.0098

Mars 120898-08-31 14:50 G 45878390.96 45878391.12 45878391.27 0.1603 0.0210

Venus 120898-11-23 22:31 G 45878475.37 45878475.44 45878475.51 0.3657 0.3124

Mars 120899-07-12 19:53 G 45878706.26 45878706.33 45878706.39 0.1943 0.1647

Jupiter 120900-06-27 06:12 G 45879055.62 45879055.76 45879055.89 0.0540 0.0115

Moon 120901-04-21 02:22 G 45879353.47 45879353.60 45879353.72 0.2657 0.1289

Earth 120901-04-21 03:34 G 45879353.54 45879353.65 45879353.76 0.2657 0.1552 *

Saturn 120903-08-12 12:12 G 45880196.92 45880197.01 45880197.11 0.0277 0.0207

Saturn 120903-11-09 01:53 G 45880285.44 45880285.58 45880285.73 0.0277 0.0052

Saturn 120904-02-05 15:19 G 45880374.01 45880374.14 45880374.27 0.0278 0.0101

Saturn 120904-05-04 04:31 G 45880462.63 45880462.69 45880462.75 0.0278 0.0251

Uranus 120904-06-04 20:36 G 45880494.33 45880494.36 45880494.40 0.0140 0.0136

Uranus 120904-09-01 02:22 G 45880582.51 45880582.60 45880582.70 0.0140 0.0113

Uranus 120904-11-28 08:07 G 45880670.72 45880670.84 45880670.97 0.0140 0.0090

Uranus 120905-02-24 13:38 G 45880758.94 45880759.07 45880759.23 0.0140 0.0067

Uranus 120905-05-23 19:38 G 45880847.17 45880847.32 45880847.49 0.0140 0.0043

Uranus 120905-08-20 01:38 G 45880935.41 45880935.57 45880935.74 0.0140 0.0019

Earth 120905-10-13 22:31 G 45880990.33 45880990.44 45880990.56 0.2678 0.0698

Moon 120905-10-13 23:14 G 45880990.36 45880990.47 45880990.59 0.2676 0.0596 *

Uranus 120905-11-16 07:38 G 45881023.65 45881023.82 45881023.99 0.0140 0.0005

Uranus 120906-02-12 13:24 G 45881111.90 45881112.06 45881112.23 0.0140 0.0030

Uranus 120906-05-11 19:24 G 45881200.16 45881200.31 45881200.47 0.0140 0.0054

Uranus 120906-08-08 01:24 G 45881288.43 45881288.56 45881288.71 0.0139 0.0078

Jupiter 120906-08-08 04:02 G 45881288.51 45881288.67 45881288.84 0.0488 0.0067 *

Uranus 120906-11-04 07:24 G 45881376.71 45881376.81 45881376.94 0.0139 0.0102

Uranus 120907-01-31 13:38 G 45881465.01 45881465.07 45881465.15 0.0139 0.0127

Mars 120908-01-22 19:10 G 45881821.17 45881821.30 45881821.43 0.1600 0.0853

Jupiter 120912-04-15 08:22 G 45883365.71 45883365.85 45883365.99 0.0541 0.0073

Neptune 120916-02-20 19:10 G 45884772.28 45884772.30 45884772.33 0.0088 0.0087

Neptune 120916-05-18 20:50 G 45884860.32 45884860.37 45884860.44 0.0088 0.0080

Neptune 120916-08-14 22:31 G 45884948.37 45884948.44 45884948.54 0.0088 0.0073

Neptune 120916-11-11 00:26 G 45885036.43 45885036.52 45885036.63 0.0088 0.0065

Neptune 120917-02-07 02:07 G 45885124.49 45885124.59 45885124.71 0.0088 0.0058

Neptune 120917-05-06 04:17 G 45885212.56 45885212.68 45885212.80 0.0088 0.0051

Neptune 120917-08-02 05:58 G 45885300.62 45885300.75 45885300.88 0.0088 0.0044

Neptune 120917-10-29 07:38 G 45885388.69 45885388.82 45885388.96 0.0088 0.0037

Neptune 120918-01-25 09:19 G 45885476.76 45885476.89 45885477.03 0.0088 0.0030

Saturn 120918-02-26 06:26 G 45885508.66 45885508.77 45885508.89 0.0281 0.0199

Neptune 120918-04-23 11:00 G 45885564.82 45885564.96 45885565.11 0.0088 0.0023

Saturn 120918-05-26 00:26 G 45885597.36 45885597.52 45885597.69 0.0281 0.0018

Jupiter 120918-05-27 05:14 G 45885598.58 45885598.72 45885598.87 0.0487 0.0224

Neptune 120918-07-20 12:55 G 45885652.89 45885653.04 45885653.18 0.0088 0.0016

Saturn 120918-08-22 18:41 G 45885686.15 45885686.28 45885686.42 0.0281 0.0167

Jupiter 120918-08-25 01:10 G 45885688.49 45885688.55 45885688.62 0.0489 0.0449

Neptune 120918-10-16 14:36 G 45885740.96 45885741.11 45885741.25 0.0088 0.0008

Moon 120918-10-16 18:12 G 45885741.15 45885741.26 45885741.36 0.2669 0.1233 *

Earth 120918-10-16 18:12 G 45885741.16 45885741.26 45885741.37 0.2676 0.1238 *

Neptune 120919-01-12 16:17 G 45885829.03 45885829.18 45885829.33 0.0088 0.0001

Neptune 120919-04-10 17:58 G 45885917.11 45885917.25 45885917.40 0.0088 0.0005

Neptune 120919-07-07 19:38 G 45886005.18 45886005.32 45886005.46 0.0088 0.0012

Neptune 120919-10-03 21:19 G 45886093.25 45886093.39 45886093.53 0.0088 0.0019

Neptune 120919-12-30 23:00 G 45886181.32 45886181.46 45886181.60 0.0088 0.0026

Neptune 120920-03-28 00:26 G 45886269.40 45886269.52 45886269.66 0.0088 0.0034

Mars 120920-03-31 06:26 G 45886272.69 45886272.77 45886272.86 0.1933 0.1311

Neptune 120920-06-24 02:07 G 45886357.47 45886357.59 45886357.73 0.0088 0.0040

Venus 120920-09-19 06:26 G 45886444.72 45886444.77 45886444.83 0.3728 0.3161

Neptune 120920-09-20 04:02 G 45886445.55 45886445.67 45886445.79 0.0088 0.0047

Neptune 120920-12-17 05:29 G 45886533.62 45886533.73 45886533.85 0.0088 0.0054

Neptune 120921-03-15 07:10 G 45886621.70 45886621.80 45886621.91 0.0088 0.0060

Neptune 120921-06-11 08:36 G 45886709.78 45886709.86 45886709.97 0.0088 0.0067

Neptune 120921-09-07 10:17 G 45886797.86 45886797.93 45886798.02 0.0088 0.0074

Neptune 120921-12-04 11:58 G 45886885.95 45886886.00 45886886.06 0.0088 0.0081

Neptune 120922-03-02 13:24 G 45886974.06 45886974.06 45886974.09 0.0088 0.0088

Jupiter 120924-02-02 09:19 G 45887675.77 45887675.89 45887676.01 0.0541 0.0286

Jupiter 120924-05-01 23:00 G 45887765.39 45887765.46 45887765.52 0.0539 0.0465

Venus 120926-04-05 00:41 G 45888468.42 45888468.53 45888468.63 0.3724 0.1214

Mars 120928-10-10 11:14 G 45889387.91 45889387.97 45889388.03 0.1606 0.1473

Mars 120929-08-21 13:24 G 45889702.94 45889703.06 45889703.18 0.1938 0.0075

Jupiter 120930-03-15 06:26 G 45889908.67 45889908.77 45889908.87 0.0487 0.0382

Jupiter 120930-06-13 01:38 G 45889998.44 45889998.57 45889998.71 0.0489 0.0279

Venus 120931-10-19 18:26 G 45890492.16 45890492.27 45890492.38 0.3721 0.0680

Saturn 120932-12-29 15:34 G 45890929.07 45890929.15 45890929.22 0.0277 0.0235

Saturn 120933-03-28 05:14 G 45891017.58 45891017.72 45891017.86 0.0277 0.0079

Saturn 120933-06-24 18:41 G 45891106.14 45891106.28 45891106.42 0.0278 0.0074

Saturn 120933-09-21 07:53 G 45891194.75 45891194.83 45891194.91 0.0278 0.0225

Moon 120934-04-19 06:55 G 45891404.66 45891404.79 45891404.92 0.2657 0.0811

Earth 120934-04-19 08:07 G 45891404.70 45891404.84 45891404.97 0.2655 0.0583 *

Jupiter 120935-11-21 11:00 G 45891985.90 45891985.96 45891986.03 0.0542 0.0482

Jupiter 120936-02-19 01:24 G 45892075.44 45892075.56 45892075.67 0.0540 0.0283

Venus 120937-05-04 11:58 G 45892515.92 45892516.00 45892516.08 0.3717 0.2499

Mars 120938-03-02 15:19 G 45892817.99 45892818.14 45892818.29 0.1603 0.0378

Earth 120938-10-12 07:53 G 45893041.77 45893041.83 45893041.89 0.2680 0.2259

Moon 120938-10-12 08:22 G 45893041.78 45893041.85 45893041.93 0.2674 0.2081 *

Mars 120939-01-11 19:53 G 45893133.26 45893133.33 45893133.41 0.1942 0.1480

Jupiter 120942-04-01 01:38 G 45894308.41 45894308.57 45894308.74 0.0488 0.0102

Venus 120944-05-31 19:38 G 45895100.22 45895100.32 45895100.43 0.3650 0.2192

Moon 120947-04-22 09:05 G 45896155.80 45896155.88 45896155.96 0.2665 0.2135

Earth 120947-04-22 09:19 G 45896155.81 45896155.89 45896155.98 0.2658 0.2102 *

Saturn 120947-07-16 07:38 G 45896240.74 45896240.82 45896240.91 0.0282 0.0241

Mars 120947-07-23 19:38 G 45896248.18 45896248.32 45896248.46 0.1600 0.0688

Uranus 120947-09-08 19:38 G 45896295.27 45896295.32 45896295.40 0.0138 0.0124

Saturn 120947-10-13 01:24 G 45896329.40 45896329.56 45896329.72 0.0281 0.0062

Uranus 120947-12-06 00:12 G 45896383.42 45896383.51 45896383.61 0.0138 0.0103

Jupiter 120947-12-08 04:02 G 45896385.54 45896385.67 45896385.81 0.0540 0.0106

Saturn 120948-01-09 19:38 G 45896418.17 45896418.32 45896418.47 0.0281 0.0122

Uranus 120948-03-03 04:31 G 45896471.58 45896471.69 45896471.81 0.0138 0.0083

Uranus 120948-05-30 08:50 G 45896559.74 45896559.87 45896560.00 0.0138 0.0062

Uranus 120948-08-26 13:10 G 45896647.91 45896648.05 45896648.19 0.0138 0.0042

Uranus 120948-11-22 17:14 G 45896736.08 45896736.22 45896736.37 0.0138 0.0023

Uranus 120949-02-18 21:34 G 45896824.25 45896824.40 45896824.55 0.0138 0.0002

Uranus 120949-05-18 01:38 G 45896912.43 45896912.57 45896912.72 0.0138 0.0019

Uranus 120949-08-14 05:58 G 45897000.61 45897000.75 45897000.89 0.0138 0.0039

Uranus 120949-11-10 10:02 G 45897088.79 45897088.92 45897089.05 0.0138 0.0058

Venus 120949-12-15 20:50 G 45897124.24 45897124.37 45897124.50 0.3654 0.0888

Uranus 120950-02-06 13:53 G 45897176.97 45897177.08 45897177.21 0.0139 0.0079

Uranus 120950-05-05 18:12 G 45897265.16 45897265.26 45897265.36 0.0139 0.0098

Uranus 120950-08-01 22:02 G 45897353.36 45897353.42 45897353.50 0.0139 0.0118

Uranus 120950-10-29 02:07 G 45897441.58 45897441.59 45897441.62 0.0139 0.0137

Moon 120951-10-15 03:05 G 45897792.52 45897792.63 45897792.75 0.2672 0.0445

Earth 120951-10-15 03:48 G 45897792.54 45897792.66 45897792.77 0.2678 0.0299 *

Jupiter 120954-01-18 02:36 G 45898618.44 45898618.61 45898618.77 0.0488 0.0063

Jupiter 120959-09-26 06:41 G 45900695.64 45900695.78 45900695.92 0.0541 0.0075

Mars 120959-09-30 06:41 G 45900699.70 45900699.78 45900699.85 0.1933 0.1473

Saturn 120962-08-15 05:43 G 45901749.61 45901749.74 45901749.87 0.0277 0.0135

Saturn 120962-11-11 19:10 G 45901838.16 45901838.30 45901838.45 0.0277 0.0020

Saturn 120963-02-08 08:22 G 45901926.74 45901926.85 45901926.97 0.0278 0.0171

Moon 120964-10-16 22:31 G 45902543.35 45902543.44 45902543.54 0.2676 0.1576

Earth 120964-10-16 23:14 G 45902543.38 45902543.47 45902543.57 0.2676 0.1641 *

Jupiter 120965-11-06 03:19 G 45902928.50 45902928.64 45902928.79 0.0487 0.0225

Jupiter 120966-02-03 23:00 G 45903018.40 45903018.46 45903018.53 0.0489 0.0448

Earth 120967-04-17 12:55 G 45903456.04 45903456.04 45903456.04 0.2653 0.2648

Mars 120969-02-19 13:24 G 45904129.94 45904130.06 45904130.18 0.1938 0.0093

Jupiter 120971-07-15 08:50 G 45905005.75 45905005.87 45905005.99 0.0541 0.0266

Jupiter 120971-10-12 22:17 G 45905095.38 45905095.43 45905095.49 0.0539 0.0484

Saturn 120977-03-01 00:55 G 45907061.39 45907061.54 45907061.69 0.0281 0.0122

Venus 120977-04-26 04:31 G 45907117.61 45907117.69 45907117.78 0.3727 0.2525

Saturn 120977-05-28 18:55 G 45907150.13 45907150.29 45907150.45 0.0281 0.0060

Jupiter 120977-08-25 04:46 G 45907238.60 45907238.70 45907238.80 0.0487 0.0379

Saturn 120977-08-25 13:10 G 45907238.97 45907239.05 45907239.13 0.0281 0.0245

Mars 120977-08-31 15:48 G 45907245.01 45907245.16 45907245.31 0.1603 0.0550

Jupiter 120977-11-22 23:58 G 45907328.37 45907328.50 45907328.64 0.0489 0.0282

Mars 120978-07-12 19:53 G 45907560.25 45907560.33 45907560.42 0.1943 0.1331

Earth 120980-04-19 13:53 G 45908206.94 45908207.08 45908207.22 0.2656 0.0048

Moon 120980-04-19 14:22 G 45908206.96 45908207.10 45908207.24 0.2662 0.0065 *

Venus 120982-11-09 22:31 G 45909141.34 45909141.44 45909141.55 0.3724 0.0609

Jupiter 120983-05-03 09:34 G 45909315.84 45909315.90 45909315.96 0.0542 0.0481

Jupiter 120983-07-31 23:43 G 45909405.38 45909405.49 45909405.61 0.0539 0.0283

Moon 120984-10-12 12:12 G 45909843.93 45909844.01 45909844.09 0.2677 0.1928

Earth 120984-10-12 12:55 G 45909843.96 45909844.04 45909844.13 0.2680 0.1843 *

Mars 120987-01-21 20:07 G 45910675.19 45910675.34 45910675.49 0.1600 0.0527

Venus 120988-05-25 16:31 G 45911165.08 45911165.19 45911165.29 0.3720 0.1284

Uranus 120988-06-25 03:48 G 45911195.61 45911195.66 45911195.72 0.0140 0.0130

Uranus 120988-09-21 09:34 G 45911283.80 45911283.90 45911284.01 0.0140 0.0107

Uranus 120988-12-18 15:19 G 45911372.01 45911372.14 45911372.28 0.0140 0.0084

Uranus 120989-03-16 21:05 G 45911460.23 45911460.38 45911460.54 0.0140 0.0060

Uranus 120989-06-13 02:50 G 45911548.47 45911548.62 45911548.79 0.0140 0.0037

Uranus 120989-09-09 08:50 G 45911636.70 45911636.87 45911637.04 0.0140 0.0013

Jupiter 120989-09-11 00:41 G 45911638.37 45911638.53 45911638.69 0.0488 0.0114

Uranus 120989-12-06 14:50 G 45911724.95 45911725.12 45911725.29 0.0140 0.0011

Uranus 120990-03-04 20:36 G 45911813.20 45911813.36 45911813.53 0.0140 0.0036

Uranus 120990-06-01 02:36 G 45911901.46 45911901.61 45911901.77 0.0139 0.0060

Uranus 120990-08-28 08:50 G 45911989.73 45911989.87 45911990.00 0.0139 0.0084

Uranus 120990-11-24 14:36 G 45912078.01 45912078.11 45912078.23 0.0139 0.0108

Uranus 120991-02-20 20:50 G 45912166.33 45912166.37 45912166.43 0.0139 0.0133

Saturn 120992-01-02 08:50 G 45912481.75 45912481.87 45912481.99 0.0277 0.0162

Saturn 120992-03-30 22:31 G 45912570.29 45912570.44 45912570.58 0.0278 0.0008

Saturn 120992-06-27 11:58 G 45912658.87 45912659.00 45912659.12 0.0278 0.0145

Earth 120993-04-22 15:19 G 45912958.14 45912958.14 45912958.14 0.2658 0.2657

Venus 120993-12-09 10:02 G 45913188.86 45913188.92 45913188.98 0.3716 0.3076

Jupiter 120995-05-20 01:53 G 45913715.44 45913715.58 45913715.72 0.0540 0.0095

Mars 120996-06-13 00:41 G 45914105.51 45914105.53 45914105.56 0.1597 0.1567

Moon 120997-10-15 08:07 G 45914594.72 45914594.84 45914594.96 0.2681 0.0049

Earth 120997-10-15 08:50 G 45914594.75 45914594.87 45914594.99 0.2677 0.0132 *

Mars 120999-03-31 06:41 G 45915126.72 45915126.78 45915126.85 0.1933 0.1639

Neptune 121000-01-17 23:43 G 45915419.46 45915419.49 45915419.55 0.0089 0.0085

Neptune 121000-04-16 02:22 G 45915507.53 45915507.60 45915507.69 0.0089 0.0077

Neptune 121000-07-13 05:00 G 45915595.62 45915595.71 45915595.83 0.0089 0.0069

Neptune 121000-10-09 07:38 G 45915683.71 45915683.82 45915683.96 0.0089 0.0061

122ND MILLENNIUM CE

This is a list of transits of Mercury in the 122nd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Neptune 121001-01-05 10:31 G 45915771.81 45915771.94 45915772.08 0.0089 0.0052

Venus 121001-01-06 19:38 G 45915773.19 45915773.32 45915773.45 0.3651 0.1246

Neptune 121001-04-03 13:10 G 45915859.91 45915860.05 45915860.20 0.0089 0.0044

Neptune 121001-06-30 15:48 G 45915948.01 45915948.16 45915948.32 0.0089 0.0036

Jupiter 121001-07-01 00:41 G 45915948.37 45915948.53 45915948.70 0.0488 0.0061

Neptune 121001-09-26 18:41 G 45916036.12 45916036.28 45916036.44 0.0089 0.0027

Neptune 121001-12-23 21:19 G 45916124.22 45916124.39 45916124.56 0.0089 0.0019

Neptune 121002-03-22 00:12 G 45916212.33 45916212.51 45916212.68 0.0089 0.0011

Neptune 121002-06-18 02:50 G 45916300.45 45916300.62 45916300.79 0.0089 0.0002

Neptune 121002-09-14 05:29 G 45916388.56 45916388.73 45916388.91 0.0089 0.0007

Neptune 121002-12-11 08:22 G 45916476.68 45916476.85 45916477.02 0.0089 0.0015

Neptune 121003-03-09 11:00 G 45916564.80 45916564.96 45916565.13 0.0089 0.0024

Neptune 121003-06-05 13:53 G 45916652.92 45916653.08 45916653.24 0.0089 0.0033

Neptune 121003-09-01 16:31 G 45916741.05 45916741.19 45916741.35 0.0089 0.0041

Neptune 121003-11-28 19:10 G 45916829.17 45916829.30 45916829.46 0.0089 0.0051

Neptune 121004-02-24 22:17 G 45916917.30 45916917.43 45916917.57 0.0089 0.0059

Neptune 121004-05-23 01:10 G 45917005.44 45917005.55 45917005.67 0.0089 0.0067

Neptune 121004-08-19 03:48 G 45917093.58 45917093.66 45917093.76 0.0089 0.0076

Neptune 121004-11-15 06:26 G 45917181.74 45917181.77 45917181.84 0.0089 0.0086

Saturn 121006-07-20 02:22 G 45917793.47 45917793.60 45917793.74 0.0282 0.0160

Venus 121006-07-23 21:05 G 45917797.26 45917797.38 45917797.50 0.3656 0.1906

Saturn 121006-10-16 20:22 G 45917882.19 45917882.35 45917882.52 0.0281 0.0022

Saturn 121007-01-13 14:22 G 45917971.00 45917971.10 45917971.22 0.0281 0.0206

Jupiter 121007-03-09 04:31 G 45918025.55 45918025.69 45918025.82 0.0541 0.0089

Mars 121008-08-21 13:24 G 45918556.94 45918557.06 45918557.18 0.1938 0.0247

Earth 121010-10-19 04:31 G 45919345.61 45919345.69 45919345.76 0.2675 0.2042

Moon 121010-10-19 04:46 G 45919345.63 45919345.70 45919345.77 0.2682 0.2109 *

Earth 121013-04-18 18:41 G 45920258.20 45920258.28 45920258.36 0.2654 0.2130

Moon 121013-04-18 19:38 G 45920258.23 45920258.32 45920258.41 0.2658 0.1966 *

Jupiter 121013-04-19 01:38 G 45920258.43 45920258.57 45920258.72 0.0487 0.0223

Jupiter 121013-07-17 21:19 G 45920348.33 45920348.39 45920348.46 0.0489 0.0447

Mars 121017-03-02 16:31 G 45921672.04 45921672.19 45921672.33 0.1603 0.0726

Mars 121018-01-11 20:07 G 45921987.25 45921987.34 45921987.44 0.1942 0.1153

Jupiter 121018-12-26 06:55 G 45922335.67 45922335.79 45922335.91 0.0541 0.0271

Jupiter 121019-03-25 20:22 G 45922425.30 45922425.35 45922425.42 0.0539 0.0481

Saturn 121021-05-22 09:34 G 45923213.81 45923213.90 45923214.00 0.0277 0.0215

Saturn 121021-08-18 23:14 G 45923302.33 45923302.47 45923302.62 0.0277 0.0060

Saturn 121021-11-15 12:41 G 45923390.90 45923391.03 45923391.17 0.0277 0.0093

Saturn 121022-02-12 01:53 G 45923479.52 45923479.58 45923479.65 0.0278 0.0244

Jupiter 121025-02-05 02:36 G 45924568.51 45924568.61 45924568.71 0.0487 0.0383

Jupiter 121025-05-05 21:48 G 45924658.27 45924658.41 45924658.55 0.0489 0.0277

Earth 121026-04-21 19:38 G 45925009.18 45925009.32 45925009.46 0.2656 0.0484

Moon 121026-04-21 20:50 G 45925009.23 45925009.37 45925009.50 0.2654 0.0686 *

Mars 121026-07-23 20:36 G 45925102.21 45925102.36 45925102.52 0.1600 0.0355

Jupiter 121030-10-14 08:36 G 45926645.80 45926645.86 45926645.94 0.0542 0.0465

Moon 121030-10-14 17:43 G 45926646.14 45926646.24 45926646.33 0.2686 0.1570

Earth 121030-10-14 17:58 G 45926646.15 45926646.25 45926646.35 0.2679 0.1428 *

Jupiter 121031-01-11 23:00 G 45926735.35 45926735.46 45926735.57 0.0539 0.0299

Uranus 121031-09-30 02:50 G 45926996.55 45926996.62 45926996.70 0.0138 0.0119

Uranus 121031-12-27 07:10 G 45927084.70 45927084.80 45927084.91 0.0138 0.0099

Uranus 121032-03-24 11:29 G 45927172.86 45927172.98 45927173.11 0.0138 0.0078

Uranus 121032-06-20 15:48 G 45927261.03 45927261.16 45927261.30 0.0138 0.0058

Uranus 121032-09-16 20:07 G 45927349.20 45927349.34 45927349.48 0.0138 0.0038

Uranus 121032-12-14 00:26 G 45927437.37 45927437.52 45927437.66 0.0138 0.0017

Uranus 121033-03-12 04:31 G 45927525.55 45927525.69 45927525.84 0.0138 0.0004

Uranus 121033-06-08 08:50 G 45927613.72 45927613.87 45927614.01 0.0138 0.0023

Uranus 121033-09-04 12:55 G 45927701.90 45927702.04 45927702.18 0.0138 0.0043

Uranus 121033-12-01 17:00 G 45927790.08 45927790.21 45927790.34 0.0139 0.0063

Venus 121033-12-02 02:50 G 45927790.52 45927790.62 45927790.71 0.3726 0.1886

Uranus 121034-02-27 21:05 G 45927878.27 45927878.38 45927878.50 0.0139 0.0083

Uranus 121034-05-27 00:55 G 45927966.46 45927966.54 45927966.65 0.0139 0.0103

Uranus 121034-08-23 05:14 G 45928054.66 45928054.72 45928054.79 0.0139 0.0122

Saturn 121035-12-07 01:38 G 45928525.48 45928525.57 45928525.68 0.0281 0.0221

Mars 121035-12-14 01:10 G 45928532.48 45928532.55 45928532.62 0.1597 0.1407

Pluto 121035-12-26 23:43 G 45928545.41 45928545.49 45928545.61 0.0059 0.0051

Saturn 121036-03-04 19:38 G 45928614.16 45928614.32 45928614.48 0.0281 0.0040

Pluto 121036-03-24 00:55 G 45928633.43 45928633.54 45928633.70 0.0059 0.0043

Saturn 121036-06-01 13:38 G 45928702.93 45928703.07 45928703.22 0.0281 0.0143

Pluto 121036-06-20 02:50 G 45928721.46 45928721.62 45928721.78 0.0059 0.0034

Pluto 121036-09-16 03:48 G 45928809.50 45928809.66 45928809.85 0.0059 0.0026

Pluto 121036-12-13 05:14 G 45928897.54 45928897.72 45928897.92 0.0059 0.0018

Jupiter 121037-02-21 22:46 G 45928968.29 45928968.45 45928968.61 0.0488 0.0115

Pluto 121037-03-11 06:55 G 45928985.59 45928985.79 45928985.98 0.0059 0.0009

Pluto 121037-06-07 08:07 G 45929073.64 45929073.84 45929074.04 0.0059 0.0001

Pluto 121037-09-03 09:19 G 45929161.70 45929161.89 45929162.09 0.0059 0.0008

Pluto 121037-11-30 10:46 G 45929249.77 45929249.95 45929250.15 0.0059 0.0016

Pluto 121038-02-26 11:43 G 45929337.83 45929337.99 45929338.19 0.0059 0.0025

Pluto 121038-05-25 13:10 G 45929425.91 45929426.05 45929426.23 0.0059 0.0034

Pluto 121038-08-21 15:05 G 45929513.99 45929514.13 45929514.26 0.0059 0.0042

Mars 121038-09-30 06:41 G 45929553.74 45929553.78 45929553.82 0.1933 0.1775

Pluto 121038-11-17 15:48 G 45929602.08 45929602.16 45929602.29 0.0059 0.0051

Pluto 121039-02-13 17:14 G 45929690.22 45929690.22 45929690.26 0.0059 0.0059

Venus 121039-06-17 20:50 G 45929814.26 45929814.37 45929814.48 0.3723 0.0143

Jupiter 121042-10-31 00:12 G 45931045.38 45931045.51 45931045.65 0.0540 0.0095

Earth 121043-10-17 13:53 G 45931396.96 45931397.08 45931397.20 0.2677 0.0530

Moon 121043-10-17 14:22 G 45931396.99 45931397.10 45931397.22 0.2682 0.0690 *

Venus 121044-12-31 14:36 G 45931838.01 45931838.11 45931838.20 0.3719 0.1880

Mars 121048-02-20 13:38 G 45932983.96 45932984.07 45932984.19 0.1938 0.0427

Jupiter 121048-12-10 23:29 G 45933278.32 45933278.48 45933278.64 0.0488 0.0051

Venus 121050-07-17 07:53 G 45933861.81 45933861.83 45933861.85 0.3715 0.3641

Saturn 121050-10-09 12:41 G 45933945.97 45933946.03 45933946.10 0.0278 0.0244

Saturn 121051-01-06 02:36 G 45934034.47 45934034.61 45934034.75 0.0278 0.0088

Saturn 121051-04-04 16:02 G 45934123.03 45934123.17 45934123.31 0.0278 0.0066

Saturn 121051-07-02 05:14 G 45934211.63 45934211.72 45934211.81 0.0278 0.0218

Venus 121052-01-28 18:41 G 45934422.23 45934422.28 45934422.34 0.3648 0.3280

Jupiter 121054-08-19 02:07 G 45935355.46 45935355.59 45935355.73 0.0541 0.0099

Mars 121056-08-31 16:46 G 45936099.07 45936099.20 45936099.34 0.1603 0.0892

Earth 121056-10-19 09:34 G 45936147.85 45936147.90 45936147.94 0.2675 0.2437

Moon 121056-10-19 10:17 G 45936147.89 45936147.93 45936147.97 0.2674 0.2499 *

Mars 121057-07-12 20:07 G 45936414.24 45936414.34 45936414.45 0.1942 0.1004

Venus 121057-08-13 19:38 G 45936446.19 45936446.32 45936446.46 0.3652 0.0280

Earth 121059-04-20 00:26 G 45937060.41 45937060.52 45937060.63 0.2654 0.1610

Moon 121059-04-20 01:24 G 45937060.44 45937060.56 45937060.67 0.2649 0.1562 *

Jupiter 121060-09-28 23:43 G 45937588.35 45937588.49 45937588.64 0.0487 0.0224

Jupiter 121060-12-27 19:24 G 45937678.25 45937678.31 45937678.38 0.0489 0.0446

Venus 121063-02-27 21:19 G 45938470.30 45938470.39 45938470.47 0.3657 0.2918

Saturn 121065-04-25 04:02 G 45939257.61 45939257.67 45939257.75 0.0282 0.0251

Saturn 121065-07-22 21:48 G 45939346.26 45939346.41 45939346.57 0.0281 0.0072

Saturn 121065-10-19 15:48 G 45939435.01 45939435.16 45939435.32 0.0281 0.0111

Mars 121066-01-21 21:05 G 45939529.23 45939529.38 45939529.54 0.1600 0.0189

Jupiter 121066-06-07 04:31 G 45939665.57 45939665.69 45939665.81 0.0542 0.0287

Jupiter 121066-09-04 18:12 G 45939755.20 45939755.26 45939755.33 0.0539 0.0467

Moon 121072-04-22 00:55 G 45941811.40 45941811.54 45941811.67 0.2650 0.1014

Earth 121072-04-22 01:24 G 45941811.44 45941811.56 45941811.69 0.2656 0.1032 *

Uranus 121072-07-16 11:00 G 45941896.89 45941896.96 45941897.04 0.0140 0.0124

Jupiter 121072-07-18 00:55 G 45941898.44 45941898.54 45941898.64 0.0487 0.0383

Uranus 121072-10-12 16:46 G 45941985.09 45941985.20 45941985.32 0.0140 0.0101

Jupiter 121072-10-15 19:53 G 45941988.19 45941988.33 45941988.47 0.0488 0.0276

Uranus 121073-01-08 22:31 G 45942073.31 45942073.44 45942073.59 0.0140 0.0077

Uranus 121073-04-07 04:17 G 45942161.53 45942161.68 45942161.84 0.0140 0.0054

Uranus 121073-07-04 10:17 G 45942249.77 45942249.93 45942250.09 0.0140 0.0030

Uranus 121073-09-30 16:02 G 45942338.01 45942338.17 45942338.34 0.0140 0.0007

Uranus 121073-12-27 22:02 G 45942426.25 45942426.42 45942426.59 0.0140 0.0018

Uranus 121074-03-26 04:02 G 45942514.51 45942514.67 45942514.83 0.0140 0.0042

Uranus 121074-06-22 09:48 G 45942602.77 45942602.91 45942603.07 0.0139 0.0066

Uranus 121074-09-18 15:48 G 45942691.04 45942691.16 45942691.30 0.0139 0.0091

Uranus 121074-12-15 22:02 G 45942779.33 45942779.42 45942779.52 0.0139 0.0115

Uranus 121075-03-14 04:02 G 45942867.67 45942867.67 45942867.68 0.0139 0.0139

Mars 121075-06-14 01:38 G 45942959.48 45942959.57 45942959.67 0.1597 0.1237

Earth 121076-10-14 23:14 G 45943448.36 45943448.47 45943448.58 0.2679 0.1015

Moon 121076-10-14 23:58 G 45943448.39 45943448.50 45943448.61 0.2682 0.0944 *

Jupiter 121078-03-26 06:41 G 45943975.72 45943975.78 45943975.85 0.0542 0.0474

Jupiter 121078-06-23 21:05 G 45944065.26 45944065.38 45944065.49 0.0540 0.0293

Saturn 121080-05-25 03:34 G 45944766.52 45944766.65 45944766.78 0.0277 0.0138

Saturn 121080-08-21 17:00 G 45944855.07 45944855.21 45944855.36 0.0277 0.0018

Neptune 121080-11-17 18:41 G 45944943.24 45944943.28 45944943.34 0.0088 0.0083

Saturn 121080-11-18 06:26 G 45944943.66 45944943.77 45944943.88 0.0278 0.0168

Neptune 121081-02-13 20:22 G 45945031.29 45945031.35 45945031.44 0.0088 0.0076

Neptune 121081-05-12 22:17 G 45945119.35 45945119.43 45945119.53 0.0088 0.0068

Neptune 121081-08-08 23:58 G 45945207.41 45945207.50 45945207.62 0.0088 0.0061

Neptune 121081-11-05 02:07 G 45945295.47 45945295.59 45945295.70 0.0088 0.0054

Neptune 121082-02-01 03:48 G 45945383.54 45945383.66 45945383.79 0.0088 0.0047

Neptune 121082-04-30 05:29 G 45945471.60 45945471.73 45945471.87 0.0088 0.0040

Neptune 121082-07-27 07:10 G 45945559.67 45945559.80 45945559.94 0.0088 0.0033

Neptune 121082-10-23 09:05 G 45945647.74 45945647.88 45945648.02 0.0088 0.0025

Neptune 121083-01-19 10:46 G 45945735.81 45945735.95 45945736.10 0.0088 0.0018

Neptune 121083-04-17 12:26 G 45945823.88 45945824.02 45945824.17 0.0088 0.0011

Neptune 121083-07-14 14:07 G 45945911.95 45945912.09 45945912.24 0.0088 0.0005

Neptune 121083-10-10 16:02 G 45946000.02 45946000.17 45946000.31 0.0088 0.0003

Neptune 121084-01-06 17:29 G 45946088.09 45946088.23 45946088.38 0.0088 0.0011

Neptune 121084-04-03 19:24 G 45946176.17 45946176.31 45946176.45 0.0088 0.0017

Neptune 121084-06-30 21:05 G 45946264.24 45946264.38 45946264.52 0.0088 0.0024

Jupiter 121084-08-03 20:22 G 45946298.19 45946298.35 45946298.52 0.0488 0.0108

Neptune 121084-09-26 22:46 G 45946352.31 45946352.45 45946352.58 0.0088 0.0030

Venus 121084-12-23 06:41 G 45946439.73 45946439.78 45946439.84 0.3729 0.3226

Neptune 121084-12-24 00:12 G 45946440.39 45946440.51 45946440.65 0.0088 0.0038

Neptune 121085-03-22 01:53 G 45946528.46 45946528.58 45946528.71 0.0088 0.0044

Neptune 121085-06-18 03:34 G 45946616.54 45946616.65 45946616.77 0.0088 0.0051

Neptune 121085-09-14 05:00 G 45946704.62 45946704.71 45946704.83 0.0088 0.0058

Neptune 121085-12-11 06:55 G 45946792.70 45946792.79 45946792.89 0.0088 0.0064

Neptune 121086-03-09 08:22 G 45946880.78 45946880.85 45946880.94 0.0088 0.0071

Neptune 121086-06-05 09:48 G 45946968.86 45946968.91 45946968.99 0.0088 0.0079

Neptune 121086-09-01 11:43 G 45947056.96 45947056.99 45947057.03 0.0088 0.0085

Mars 121087-08-21 13:38 G 45947410.95 45947411.07 45947411.18 0.1937 0.0565

Earth 121089-10-17 18:55 G 45948199.18 45948199.29 45948199.40 0.2677 0.0941

Moon 121089-10-17 19:38 G 45948199.21 45948199.32 45948199.43 0.2673 0.1093 *

Jupiter 121090-04-11 23:29 G 45948375.34 45948375.48 45948375.61 0.0540 0.0109

Venus 121090-07-09 00:55 G 45948463.43 45948463.54 45948463.64 0.3725 0.1271

Saturn 121094-12-09 21:05 G 45950078.24 45950078.38 45950078.53 0.0281 0.0134

Saturn 121095-03-08 15:05 G 45950166.97 45950167.13 45950167.29 0.0281 0.0047

Saturn 121095-06-05 09:05 G 45950255.80 45950255.88 45950255.98 0.0281 0.0232

Venus 121096-01-22 18:41 G 45950487.18 45950487.28 45950487.39 0.3722 0.0648

Mars 121096-03-01 17:29 G 45950526.11 45950526.23 45950526.34 0.1603 0.1064

Jupiter 121096-05-22 21:34 G 45950608.24 45950608.40 45950608.56 0.0488 0.0053

Mars 121097-01-10 20:22 G 45950841.24 45950841.35 45950841.46 0.1942 0.0841

Venus 121101-08-08 12:26 G 45952510.94 45952511.02 45952511.10 0.3718 0.2448

Jupiter 121102-01-30 00:41 G 45952685.39 45952685.53 45952685.67 0.0540 0.0099

Moon 121105-04-21 05:00 G 45953862.59 45953862.71 45953862.84 0.2651 0.1299

Earth 121105-04-21 06:12 G 45953862.63 45953862.76 45953862.89 0.2654 0.1081 *

Mars 121105-07-23 21:34 G 45953956.24 45953956.40 45953956.56 0.1600 0.0027

Jupiter 121108-03-11 22:17 G 45954918.29 45954918.43 45954918.58 0.0487 0.0217

Jupiter 121108-06-09 17:58 G 45955008.20 45955008.25 45955008.31 0.0489 0.0455

Venus 121108-09-04 18:41 G 45955095.18 45955095.28 45955095.38 0.3649 0.2346

Saturn 121109-10-13 06:26 G 45955498.65 45955498.77 45955498.89 0.0278 0.0168

Earth 121109-10-14 08:22 G 45955499.82 45955499.85 45955499.88 0.2681 0.2593

Moon 121109-10-14 09:19 G 45955499.84 45955499.89 45955499.93 0.2682 0.2487 *

Saturn 121110-01-09 20:07 G 45955587.19 45955587.34 45955587.49 0.0278 0.0012

Saturn 121110-04-08 09:34 G 45955675.78 45955675.90 45955676.02 0.0278 0.0141

Jupiter 121113-11-18 02:22 G 45956995.48 45956995.60 45956995.72 0.0541 0.0297

Jupiter 121114-02-15 16:02 G 45957085.10 45957085.17 45957085.24 0.0539 0.0457

Venus 121114-03-21 19:38 G 45957119.19 45957119.32 45957119.46 0.3653 0.0717

Mars 121114-12-14 02:07 G 45957386.48 45957386.59 45957386.71 0.1597 0.1073

Uranus 121115-07-25 05:29 G 45957609.71 45957609.73 45957609.76 0.0138 0.0135

Uranus 121115-10-21 10:02 G 45957697.84 45957697.92 45957698.00 0.0138 0.0114

Uranus 121116-01-17 14:07 G 45957785.99 45957786.09 45957786.21 0.0138 0.0094

Uranus 121116-04-14 18:41 G 45957874.15 45957874.28 45957874.40 0.0138 0.0073

Uranus 121116-07-11 22:46 G 45957962.32 45957962.45 45957962.59 0.0138 0.0053

Uranus 121116-10-08 03:05 G 45958050.49 45958050.63 45958050.78 0.0138 0.0033

Uranus 121117-01-04 07:24 G 45958138.67 45958138.81 45958138.96 0.0138 0.0012

Uranus 121117-04-02 11:43 G 45958226.84 45958226.99 45958227.13 0.0138 0.0008

Uranus 121117-06-29 15:48 G 45958315.02 45958315.16 45958315.31 0.0138 0.0028

Uranus 121117-09-25 19:53 G 45958403.20 45958403.33 45958403.47 0.0138 0.0048

Uranus 121117-12-23 00:12 G 45958491.38 45958491.51 45958491.63 0.0139 0.0068

Uranus 121118-03-21 04:02 G 45958579.57 45958579.67 45958579.79 0.0139 0.0088

Moon 121118-04-24 06:12 G 45958613.64 45958613.76 45958613.88 0.2659 0.1409

Earth 121118-04-24 07:24 G 45958613.69 45958613.81 45958613.92 0.2657 0.1571 *

Uranus 121118-06-17 08:22 G 45958667.76 45958667.85 45958667.94 0.0139 0.0107

Uranus 121118-09-13 12:12 G 45958755.96 45958756.01 45958756.07 0.0139 0.0127

Jupiter 121119-12-29 22:46 G 45959228.36 45959228.45 45959228.55 0.0487 0.0386

Jupiter 121120-03-28 17:43 G 45959318.11 45959318.24 45959318.38 0.0488 0.0273

Earth 121122-10-17 04:17 G 45960250.57 45960250.68 45960250.80 0.2679 0.0599

Moon 121122-10-17 04:31 G 45960250.58 45960250.69 45960250.81 0.2672 0.0517 *

Saturn 121124-04-28 23:43 G 45960810.36 45960810.49 45960810.63 0.0281 0.0161

Saturn 121124-07-26 17:43 G 45960899.07 45960899.24 45960899.40 0.0281 0.0020

Saturn 121124-10-23 11:43 G 45960987.88 45960987.99 45960988.11 0.0281 0.0203

Jupiter 121125-09-06 04:17 G 45961305.62 45961305.68 45961305.74 0.0542 0.0491

Jupiter 121125-12-04 18:41 G 45961395.16 45961395.28 45961395.40 0.0540 0.0277

Mars 121127-02-20 13:38 G 45961837.96 45961838.07 45961838.18 0.1937 0.0730

Jupiter 121132-01-15 18:26 G 45963628.11 45963628.27 45963628.43 0.0488 0.0105

Pluto 121133-08-28 14:07 G 45964219.01 45964219.09 45964219.17 0.0085 0.0069

Pluto 121133-11-24 15:19 G 45964307.04 45964307.14 45964307.25 0.0085 0.0051

Pluto 121134-02-20 16:31 G 45964395.07 45964395.19 45964395.31 0.0085 0.0034

Pluto 121134-05-19 17:43 G 45964483.12 45964483.24 45964483.38 0.0085 0.0017

Pluto 121134-08-15 19:10 G 45964571.17 45964571.30 45964571.43 0.0085 0.0001

Pluto 121134-11-11 20:22 G 45964659.22 45964659.35 45964659.48 0.0085 0.0017

Pluto 121135-02-07 21:34 G 45964747.28 45964747.40 45964747.52 0.0085 0.0034

Pluto 121135-05-06 22:46 G 45964835.35 45964835.45 45964835.56 0.0085 0.0050

Pluto 121135-08-02 23:43 G 45964923.42 45964923.49 45964923.58 0.0084 0.0068

Mars 121135-09-01 17:58 G 45964953.15 45964953.25 45964953.35 0.1604 0.1236

Moon 121135-10-19 23:29 G 45965001.37 45965001.48 45965001.59 0.2673 0.1203

Earth 121135-10-20 00:12 G 45965001.40 45965001.51 45965001.61 0.2676 0.1346 *

Pluto 121135-10-30 01:10 G 45965011.54 45965011.55 45965011.57 0.0084 0.0084

Mars 121136-07-12 20:22 G 45965268.24 45965268.35 45965268.47 0.1942 0.0679

Jupiter 121137-09-22 21:19 G 45965705.25 45965705.39 45965705.53 0.0541 0.0099

Saturn 121139-03-02 07:53 G 45966230.73 45966230.83 45966230.92 0.0277 0.0215

Saturn 121139-05-29 21:34 G 45966319.25 45966319.40 45966319.54 0.0277 0.0059

Saturn 121139-08-26 11:00 G 45966407.82 45966407.96 45966408.09 0.0277 0.0094

Saturn 121139-11-23 00:12 G 45966496.45 45966496.51 45966496.58 0.0278 0.0244

Venus 121141-07-31 04:46 G 45967112.63 45967112.70 45967112.78 0.3728 0.2598

Jupiter 121143-11-03 19:10 G 45967938.13 45967938.30 45967938.46 0.0488 0.0061

Mars 121145-01-21 22:17 G 45968383.27 45968383.43 45968383.58 0.1600 0.0156

Venus 121147-02-13 23:00 G 45969136.35 45969136.46 45969136.57 0.3724 0.0648

Jupiter 121149-07-11 23:29 G 45970015.35 45970015.48 45970015.62 0.0541 0.0089

Moon 121151-04-22 11:14 G 45970664.83 45970664.97 45970665.10 0.2660 0.0594

Earth 121151-04-22 11:58 G 45970664.86 45970665.00 45970665.14 0.2655 0.0552 *

Venus 121152-08-29 16:46 G 45971160.10 45971160.20 45971160.30 0.3721 0.1225

Saturn 121153-09-15 23:00 G 45971542.37 45971542.46 45971542.56 0.0281 0.0223

Saturn 121153-12-13 16:46 G 45971631.04 45971631.20 45971631.36 0.0281 0.0044

Saturn 121154-03-12 10:46 G 45971719.81 45971719.95 45971720.10 0.0281 0.0138

Mars 121154-06-14 02:36 G 45971813.48 45971813.61 45971813.74 0.1597 0.0911

Jupiter 121155-08-22 20:22 G 45972248.20 45972248.35 45972248.49 0.0487 0.0219

Earth 121155-10-15 13:24 G 45972301.99 45972302.06 45972302.13 0.2681 0.2172

Moon 121155-10-15 13:24 G 45972302.00 45972302.06 45972302.12 0.2674 0.2258 *

Jupiter 121155-11-20 15:48 G 45972338.10 45972338.16 45972338.23 0.0489 0.0452

Uranus 121156-08-06 18:26 G 45972598.18 45972598.27 45972598.36 0.0140 0.0117

Uranus 121156-11-02 23:58 G 45972686.39 45972686.50 45972686.63 0.0140 0.0094

Uranus 121157-01-30 05:43 G 45972774.60 45972774.74 45972774.89 0.0140 0.0071

Uranus 121157-04-28 11:43 G 45972862.83 45972862.99 45972863.15 0.0140 0.0047

Uranus 121157-07-25 17:29 G 45972951.07 45972951.23 45972951.40 0.0140 0.0024

Uranus 121157-10-21 23:29 G 45973039.31 45973039.48 45973039.65 0.0140 0.0003

Uranus 121158-01-18 05:14 G 45973127.56 45973127.72 45973127.89 0.0140 0.0024

Venus 121158-03-15 10:17 G 45973183.87 45973183.93 45973184.00 0.3717 0.3030

Uranus 121158-04-16 11:00 G 45973215.81 45973215.96 45973216.13 0.0139 0.0049

Uranus 121158-07-13 17:00 G 45973304.07 45973304.21 45973304.36 0.0139 0.0073

Uranus 121158-10-09 23:14 G 45973392.35 45973392.47 45973392.59 0.0139 0.0097

Uranus 121159-01-06 05:00 G 45973480.64 45973480.71 45973480.81 0.0139 0.0121

Jupiter 121161-04-30 00:41 G 45974325.42 45974325.53 45974325.65 0.0541 0.0296

Jupiter 121161-07-28 14:36 G 45974415.04 45974415.11 45974415.18 0.0539 0.0457

Earth 121164-04-24 13:10 G 45975415.97 45975416.05 45975416.13 0.2657 0.2115

Moon 121164-04-24 13:53 G 45975416.01 45975416.08 45975416.16 0.2662 0.2179 *

Neptune 121164-07-19 20:22 G 45975502.35 45975502.35 45975502.37 0.0089 0.0089

Neptune 121164-10-15 23:14 G 45975590.40 45975590.47 45975590.54 0.0089 0.0080

Neptune 121165-01-12 01:38 G 45975678.48 45975678.57 45975678.67 0.0089 0.0072

Neptune 121165-04-10 04:17 G 45975766.57 45975766.68 45975766.80 0.0089 0.0064

Venus 121165-04-11 18:41 G 45975768.15 45975768.28 45975768.40 0.3650 0.1399

Neptune 121165-07-07 06:41 G 45975854.66 45975854.78 45975854.93 0.0089 0.0056

Neptune 121165-10-03 09:19 G 45975942.76 45975942.89 45975943.05 0.0089 0.0048

Neptune 121165-12-30 12:12 G 45976030.86 45976031.01 45976031.17 0.0089 0.0039

Neptune 121166-03-28 14:50 G 45976118.97 45976119.12 45976119.29 0.0089 0.0031

Neptune 121166-06-24 17:29 G 45976207.08 45976207.23 45976207.41 0.0089 0.0023

Mars 121166-08-21 13:53 G 45976264.98 45976265.08 45976265.19 0.1937 0.0896

Neptune 121166-09-20 20:22 G 45976295.18 45976295.35 45976295.52 0.0089 0.0014

Neptune 121166-12-17 23:14 G 45976383.29 45976383.47 45976383.64 0.0089 0.0006

Neptune 121167-03-16 01:53 G 45976471.41 45976471.58 45976471.75 0.0089 0.0003

Jupiter 121167-06-10 21:19 G 45976558.29 45976558.39 45976558.49 0.0487 0.0380

Neptune 121167-06-12 04:46 G 45976559.52 45976559.70 45976559.87 0.0089 0.0012

Neptune 121167-09-08 07:24 G 45976647.64 45976647.81 45976647.98 0.0089 0.0020

Jupiter 121167-09-08 16:17 G 45976648.05 45976648.18 45976648.32 0.0489 0.0281

Neptune 121167-12-05 10:17 G 45976735.76 45976735.93 45976736.09 0.0089 0.0029

Neptune 121168-03-02 12:55 G 45976823.89 45976824.04 45976824.20 0.0089 0.0037

Neptune 121168-05-29 15:34 G 45976912.01 45976912.15 45976912.31 0.0089 0.0046

Saturn 121168-07-19 10:17 G 45976962.87 45976962.93 45976963.00 0.0278 0.0248

Neptune 121168-08-25 18:26 G 45977000.14 45977000.27 45977000.41 0.0089 0.0055

Saturn 121168-10-16 00:12 G 45977051.37 45977051.51 45977051.65 0.0278 0.0092

Moon 121168-10-17 08:36 G 45977052.74 45977052.86 45977052.98 0.2676 0.0252

Earth 121168-10-17 09:34 G 45977052.78 45977052.90 45977053.02 0.2678 0.0203 *

Neptune 121168-11-21 21:05 G 45977088.27 45977088.38 45977088.52 0.0089 0.0064

Saturn 121169-01-12 13:38 G 45977139.93 45977140.07 45977140.22 0.0278 0.0063

Neptune 121169-02-17 23:58 G 45977176.41 45977176.50 45977176.61 0.0089 0.0072

Saturn 121169-04-11 03:05 G 45977228.54 45977228.63 45977228.72 0.0278 0.0214

Neptune 121169-05-17 02:36 G 45977264.56 45977264.61 45977264.70 0.0089 0.0081

Venus 121170-10-26 19:53 G 45977792.21 45977792.33 45977792.45 0.3654 0.1718

Jupiter 121173-02-16 02:07 G 45978635.54 45978635.59 45978635.65 0.0542 0.0499

Jupiter 121173-05-16 16:31 G 45978725.07 45978725.19 45978725.31 0.0540 0.0269

Mars 121175-03-02 18:26 G 45979380.20 45979380.27 45979380.34 0.1604 0.1409

Mars 121176-01-11 20:36 G 45979695.24 45979695.36 45979695.48 0.1941 0.0513

Jupiter 121179-06-27 16:17 G 45980958.02 45980958.18 45980958.34 0.0488 0.0102

Moon 121181-10-20 04:31 G 45981803.60 45981803.69 45981803.79 0.2682 0.1594

Earth 121181-10-20 05:14 G 45981803.63 45981803.72 45981803.81 0.2676 0.1749 *

Saturn 121183-02-03 02:07 G 45982274.51 45982274.59 45982274.66 0.0282 0.0247

Saturn 121183-05-02 19:38 G 45982363.16 45982363.32 45982363.48 0.0281 0.0069

Saturn 121183-07-30 13:38 G 45982451.92 45982452.07 45982452.22 0.0281 0.0113

Earth 121184-04-19 17:00 G 45982716.18 45982716.21 45982716.23 0.2653 0.2592

Mars 121184-07-22 22:45 G 45982810.29 45982810.45 45982810.60 0.1600 0.0322

Jupiter 121185-03-04 18:55 G 45983035.15 45983035.29 45983035.43 0.0541 0.0083

Jupiter 121191-04-15 17:14 G 45985268.05 45985268.22 45985268.38 0.0487 0.0064

Mars 121193-12-13 03:05 G 45986240.50 45986240.63 45986240.77 0.1597 0.0743

Jupiter 121196-12-21 21:19 G 45987345.26 45987345.39 45987345.53 0.0541 0.0100

Earth 121197-04-22 17:43 G 45987467.10 45987467.24 45987467.38 0.2655 0.0028

Moon 121197-04-22 18:55 G 45987467.15 45987467.29 45987467.42 0.2658 0.0234 *

Saturn 121198-03-05 01:38 G 45987783.45 45987783.57 45987783.70 0.0277 0.0136

Venus 121198-03-07 03:05 G 45987785.53 45987785.63 45987785.72 0.3727 0.1961

Saturn 121198-06-01 15:19 G 45987872.00 45987872.14 45987872.29 0.0277 0.0019

Saturn 121198-08-29 04:45 G 45987960.59 45987960.70 45987960.81 0.0278 0.0170

Uranus 121199-08-14 12:12 G 45988310.98 45988311.01 45988311.07 0.0138 0.0131

Uranus 121199-11-10 16:45 G 45988399.12 45988399.20 45988399.29 0.0138 0.0110

Uranus 121200-02-06 21:05 G 45988487.27 45988487.38 45988487.50 0.0138 0.0090

Uranus 121200-05-05 01:24 G 45988575.44 45988575.56 45988575.69 0.0138 0.0069

Uranus 121200-08-01 05:43 G 45988663.60 45988663.74 45988663.88 0.0138 0.0049

Uranus 121200-10-28 10:02 G 45988751.78 45988751.92 45988752.07 0.0138 0.0028

Uranus 121201-01-24 14:21 G 45988839.95 45988840.10 45988840.24 0.0138 0.0008

Uranus 121201-04-22 18:26 G 45988928.13 45988928.27 45988928.42 0.0138 0.0012

Uranus 121201-07-19 22:31 G 45989016.30 45989016.44 45989016.59 0.0138 0.0033

Moon 121201-10-15 17:43 G 45989104.16 45989104.24 45989104.33 0.2680 0.1892

Earth 121201-10-15 18:41 G 45989104.19 45989104.28 45989104.37 0.2680 0.1746 *

Uranus 121201-10-16 02:36 G 45989104.49 45989104.61 45989104.76 0.0138 0.0053

Uranus 121202-01-12 06:55 G 45989192.67 45989192.79 45989192.92 0.0139 0.0072

Uranus 121202-04-10 11:00 G 45989280.86 45989280.96 45989281.07 0.0139 0.0092

Uranus 121202-07-07 14:50 G 45989369.05 45989369.12 45989369.22 0.0139 0.0112

Uranus 121202-10-03 19:09 G 45989457.26 45989457.30 45989457.35 0.0139 0.0131

Jupiter 121203-02-01 17:57 G 45989578.11 45989578.25 45989578.40 0.0487 0.0227

Jupiter 121203-05-02 13:24 G 45989668.00 45989668.06 45989668.13 0.0489 0.0442

Venus 121203-09-20 21:05 G 45989809.27 45989809.38 45989809.49 0.3723 0.0087

Mars 121206-02-19 13:53 G 45990691.98 45990692.08 45990692.18 0.1937 0.1044

Jupiter 121208-10-09 23:29 G 45991655.37 45991655.48 45991655.60 0.0542 0.0288

Jupiter 121209-01-07 13:24 G 45991745.00 45991745.06 45991745.13 0.0539 0.0467

Venus 121209-04-05 14:50 G 45991833.02 45991833.12 45991833.21 0.3720 0.1820

Saturn 121212-09-18 18:26 G 45993095.13 45993095.27 45993095.42 0.0281 0.0134

Saturn 121212-12-16 12:26 G 45993183.86 45993184.02 45993184.18 0.0281 0.0047

Saturn 121213-03-15 06:26 G 45993272.69 45993272.77 45993272.87 0.0281 0.0231

Mars 121214-08-31 18:55 G 45993807.27 45993807.29 45993807.31 0.1604 0.1581

Moon 121214-10-18 14:21 G 45993854.98 45993855.10 45993855.22 0.2685 0.0209

Earth 121214-10-18 14:36 G 45993854.99 45993855.11 45993855.23 0.2678 0.0230 *

Venus 121214-10-20 08:21 G 45993856.83 45993856.85 45993856.87 0.3716 0.3606

Jupiter 121214-11-20 19:09 G 45993888.21 45993888.30 45993888.41 0.0487 0.0383

Jupiter 121215-02-18 14:21 G 45993977.96 45993978.10 45993978.23 0.0489 0.0277

Mars 121215-07-12 20:36 G 45994122.24 45994122.36 45994122.48 0.1942 0.0359

Venus 121216-05-02 17:57 G 45994417.20 45994417.25 45994417.29 0.3647 0.3402

Jupiter 121220-07-29 00:41 G 45995965.48 45995965.53 45995965.59 0.0542 0.0496

Jupiter 121220-10-26 15:05 G 45996055.01 45996055.13 45996055.25 0.0539 0.0271

Venus 121221-11-16 18:41 G 45996441.15 45996441.28 45996441.42 0.3651 0.0429

Mars 121224-01-21 23:00 G 45997237.31 45997237.46 45997237.61 0.1601 0.0484

Mars 121224-12-02 03:05 G 45997552.59 45997552.63 45997552.67 0.1945 0.1795

Jupiter 121226-12-07 14:50 G 45998287.96 45998288.12 45998288.28 0.0488 0.0108

Venus 121227-06-02 20:07 G 45998465.25 45998465.34 45998465.43 0.3656 0.2744

Saturn 121227-07-23 04:02 G 45998515.56 45998515.67 45998515.79 0.0278 0.0172

Saturn 121227-10-19 17:43 G 45998604.10 45998604.24 45998604.39 0.0278 0.0017

Earth 121227-10-21 10:17 G 45998605.86 45998605.93 45998606.00 0.2676 0.2142

Moon 121227-10-21 11:00 G 45998605.90 45998605.96 45998606.02 0.2679 0.2265 *

Saturn 121228-01-16 07:09 G 45998692.68 45998692.80 45998692.93 0.0278 0.0137

Earth 121230-04-20 22:31 G 45999518.36 45999518.44 45999518.53 0.2653 0.2083

Moon 121230-04-20 23:43 G 45999518.40 45999518.49 45999518.59 0.2654 0.1869 *

Jupiter 121232-08-14 17:00 G 46000365.07 46000365.21 46000365.35 0.0540 0.0078

Mars 121233-06-13 03:33 G 46000667.51 46000667.65 46000667.80 0.1598 0.0578

Jupiter 121238-09-25 15:05 G 46002597.97 46002598.13 46002598.29 0.0487 0.0066

Uranus 121240-05-30 19:38 G 46003211.29 46003211.32 46003211.38 0.0140 0.0134

Uranus 121240-08-27 01:24 G 46003299.48 46003299.56 46003299.67 0.0140 0.0111

Uranus 121240-11-23 07:24 G 46003387.68 46003387.81 46003387.94 0.0140 0.0087

Uranus 121241-02-19 13:09 G 46003475.90 46003476.05 46003476.20 0.0140 0.0064

Uranus 121241-05-18 18:55 G 46003564.13 46003564.29 46003564.45 0.0140 0.0040

Uranus 121241-08-15 00:41 G 46003652.37 46003652.53 46003652.70 0.0140 0.0017

Uranus 121241-11-11 06:41 G 46003740.61 46003740.78 46003740.95 0.0140 0.0007

Saturn 121242-02-05 21:33 G 46003827.27 46003827.40 46003827.54 0.0282 0.0158

Uranus 121242-02-07 12:26 G 46003828.86 46003829.02 46003829.19 0.0140 0.0031

Saturn 121242-05-05 15:33 G 46003915.98 46003916.15 46003916.31 0.0281 0.0024

Uranus 121242-05-06 18:12 G 46003917.12 46003917.26 46003917.43 0.0139 0.0056

Saturn 121242-08-02 09:33 G 46004004.79 46004004.90 46004005.01 0.0281 0.0206

Uranus 121242-08-03 00:12 G 46004005.38 46004005.51 46004005.66 0.0139 0.0080

Uranus 121242-10-30 06:26 G 46004093.66 46004093.77 46004093.89 0.0139 0.0103

Uranus 121243-01-26 12:26 G 46004181.96 46004182.02 46004182.09 0.0139 0.0128

Earth 121243-04-23 23:29 G 46004269.35 46004269.48 46004269.62 0.2656 0.0524

Moon 121243-04-24 00:12 G 46004269.37 46004269.51 46004269.65 0.2649 0.0564 *

Jupiter 121244-06-02 18:55 G 46004675.16 46004675.29 46004675.43 0.0541 0.0116

Neptune 121245-05-19 16:31 G 46005026.16 46005026.19 46005026.23 0.0088 0.0086

Neptune 121245-08-15 18:12 G 46005114.21 46005114.26 46005114.34 0.0088 0.0079

Mars 121245-08-20 13:53 G 46005118.99 46005119.08 46005119.18 0.1937 0.1201

Neptune 121245-11-11 20:07 G 46005202.26 46005202.34 46005202.43 0.0088 0.0071

Neptune 121246-02-07 21:48 G 46005290.32 46005290.41 46005290.52 0.0088 0.0064

Neptune 121246-05-06 23:29 G 46005378.38 46005378.48 46005378.61 0.0088 0.0058

Neptune 121246-08-03 01:38 G 46005466.45 46005466.57 46005466.69 0.0088 0.0050

Neptune 121246-10-30 03:19 G 46005554.51 46005554.64 46005554.77 0.0088 0.0043

Neptune 121247-01-26 05:00 G 46005642.58 46005642.71 46005642.85 0.0088 0.0036

Neptune 121247-04-24 06:55 G 46005730.65   46005730.79   46005730.93 0.0088 0.0028

Neptune 121247-07-21 08:36 G 46005818.72   46005818.86   46005819.00 0.0088 0.0021

Earth   121247-10-16 23:43 G 46005906.39   46005906.49   46005906.60 0.2680 0.1333

Moon   121247-10-16 23:57 G 46005906.40   46005906.50   46005906.61 0.2686 0.1232 *

Neptune 121247-10-17 10:17 G 46005906.79   46005906.93   46005907.08 0.0088 0.0015

Neptune 121248-01-13 12:12 G 46005994.86   46005995.01   46005995.15 0.0088 0.0008

Neptune 121248-04-10 13:53 G 46006082.93   46006083.08   46006083.22 0.0088 0.0001

Neptune 121248-07-07 15:33 G 46006171.00   46006171.15   46006171.30 0.0088 0.0007

Neptune 121248-10-03 17:14 G 46006259.08   46006259.22   46006259.36 0.0088 0.0014

Neptune 121248-12-30 18:55 G 46006347.15   46006347.29   46006347.43 0.0088 0.0021

Venus   121249-03-28 06:55 G 46006434.74   46006434.79   46006434.84 0.3730 0.3302

Neptune 121249-03-28 20:36 G 46006435.22   46006435.36   46006435.50 0.0088 0.0027

Neptune 121249-06-24 22:17 G 46006523.30   46006523.43   46006523.56 0.0088 0.0034

Neptune 121249-09-20 23:43 G 46006611.37   46006611.49   46006611.63 0.0088 0.0042

Neptune 121249-12-18 01:24 G 46006699.45   46006699.56   46006699.69 0.0088 0.0048

Neptune 121250-03-16 03:05 G 46006787.53   46006787.63   46006787.75 0.0088 0.0055

Neptune 121250-06-12 04:45 G 46006875.61   46006875.70   46006875.81 0.0088 0.0062

Jupiter 121250-07-14 16:02 G 46006908.03   46006908.17   46006908.32 0.0487 0.0227

Neptune 121250-09-08 06:26 G 46006963.69   46006963.77   46006963.86 0.0088 0.0068

Jupiter 121250-10-12 11:29 G 46006997.91   46006997.98   46006998.05 0.0489 0.0440

Neptune 121250-12-05 07:53 G 46007051.77   46007051.83   46007051.92 0.0088 0.0075

Neptune 121251-03-03 09:48 G 46007139.86   46007139.91   46007139.96 0.0088 0.0082

Venus   121254-10-12 01:09 G 46008458.45   46008458.55   46008458.65 0.3726 0.1325

Mars   121255-01-10 20:50 G 46008549.25   46008549.37   46008549.49 0.1941 0.0189

Jupiter 121256-03-21 21:19 G 46008985.28   46008985.39   46008985.51 0.0542 0.0300

Jupiter 121256-06-19 11:14 G 46009074.90   46009074.97   46009075.04 0.0540 0.0457

Saturn   121256-12-09 05:43 G 46009247.65   46009247.74   46009247.83 0.0277 0.0215

Saturn   121257-03-07 19:24 G 46009336.17   46009336.31   46009336.46 0.0277 0.0060

Saturn   121257-06-04 09:05 G 46009424.74   46009424.88   46009425.01 0.0277 0.0094

Saturn   121257-08-31 22:17 G 46009513.36   46009513.43   46009513.50 0.0277 0.0244

Venus 121260-04-26 19:09 G 46010482.19 46010482.30 46010482.41 0.3722 0.0584

Earth 121260-10-18 19:38 G 46010657.21 46010657.32 46010657.44 0.2678 0.0640

Moon 121260-10-18 20:36 G 46010657.24 46010657.36 46010657.47 0.2680 0.0704 *

Jupiter 121262-05-02 17:00 G 46011218.12 46011218.21 46011218.31 0.0487 0.0389

Jupiter 121262-07-31 11:57 G 46011307.86 46011308.00 46011308.13 0.0488 0.0269

Mars 121263-07-22 23:43 G 46011664.35 46011664.49 46011664.63 0.1601 0.0658

Mars 121264-06-02 02:50 G 46011979.56 46011979.62 46011979.69 0.1945 0.1660

Venus 121265-11-10 12:55 G 46012505.95 46012506.04 46012506.12 0.3719 0.2416

Jupiter 121268-01-08 23:29 G 46013295.42 46013295.48 46013295.54 0.0542 0.0490

Jupiter 121268-04-07 13:53 G 46013384.96 46013385.08 46013385.20 0.0540 0.0279

Saturn 121271-06-25 20:36 G 46014559.26 46014559.36 46014559.46 0.0281 0.0223

Saturn 121271-09-22 14:07 G 46014647.93 46014648.09 46014648.26 0.0281 0.0045

Saturn 121271-12-20 08:07 G 46014736.70 46014736.84 46014736.99 0.0281 0.0138

Venus 121272-12-07 17:43 G 46015090.14 46015090.24 46015090.34 0.3648 0.2473

Mars 121272-12-12 04:02 G 46015094.52 46015094.67 46015094.82 0.1598 0.0415

Earth 121273-10-21 15:19 G 46015408.11 46015408.14 46015408.17 0.2676 0.2542

Jupiter 121274-05-19 12:55 G 46015617.87 46015618.04 46015618.20 0.0488 0.0106

Moon 121276-04-21 04:17 G 46016320.56 46016320.68 46016320.79 0.2647 0.1491

Earth 121276-04-21 04:31 G 46016320.57 46016320.69 46016320.80 0.2653 0.1559 *

Venus 121278-06-23 18:41 G 46017114.15 46017114.28 46017114.42 0.3653 0.0561

Jupiter 121280-01-25 15:33 G 46017695.02 46017695.15 46017695.29 0.0540 0.0083

Mars 121282-05-04 08:50 G 46018524.81 46018524.87 46018524.93 0.1595 0.1451

Uranus 121283-09-03 19:24 G 46019012.26 46019012.31 46019012.38 0.0138 0.0126

Pluto 121283-10-27 05:14 G 46019065.69 46019065.72 46019065.78 0.0059 0.0057

Uranus 121283-11-30 23:43 G 46019100.40 46019100.49 46019100.59 0.0138 0.0105

Pluto 121284-01-23 06:26 G 46019153.68 46019153.77 46019153.90 0.0059 0.0049

Uranus 121284-02-27 04:02 G 46019188.56 46019188.67 46019188.80 0.0138 0.0085

Pluto 121284-04-20 07:38 G 46019241.70 46019241.82 46019241.98 0.0059 0.0041

Uranus 121284-05-25 08:36 G 46019276.73 46019276.86 46019276.99 0.0138 0.0064

Pluto 121284-07-17 08:50 G 46019329.73 46019329.87 46019330.06 0.0059 0.0033

Uranus 121284-08-21 12:41 G 46019364.90 46019365.03 46019365.18 0.0138 0.0044

Pluto 121284-10-13 10:31 G 46019417.77 46019417.94 46019418.13 0.0059 0.0024

Uranus 121284-11-17 17:00 G 46019453.07 46019453.21 46019453.36 0.0138 0.0024

Pluto 121285-01-09 11:57 G 46019505.82 46019506.00 46019506.20 0.0059 0.0016

Uranus 121285-02-13 21:19 G 46019541.24 46019541.39 46019541.54 0.0138 0.0004

Mars 121285-02-18 14:07 G 46019546.01 46019546.09 46019546.18 0.1937 0.1380

Pluto 121285-04-07 13:09 G 46019593.87 46019594.05 46019594.26 0.0059 0.0008

Uranus 121285-05-13 01:38 G 46019629.42 46019629.57 46019629.71 0.0138 0.0017

Pluto 121285-07-04 14:50 G 46019681.92 46019682.12 46019682.32 0.0059 0.0001

Uranus 121285-08-09 05:43 G 46019717.60 46019717.74 46019717.88 0.0138 0.0037

Pluto 121285-09-30 15:48 G 46019769.98 46019770.16 46019770.37 0.0059 0.0010

Uranus 121285-11-05 09:48 G 46019805.78 46019805.91 46019806.05 0.0138 0.0057

Pluto 121285-12-27 17:14 G 46019858.04 46019858.22 46019858.42 0.0059 0.0018

Uranus 121286-02-01 13:53 G 46019893.97 46019894.08 46019894.21 0.0139 0.0077

Jupiter 121286-03-07 13:38 G 46019927.91 46019928.07 46019928.23 0.0488 0.0060

Pluto 121286-03-25 18:41 G 46019946.11 46019946.28 46019946.46 0.0059 0.0026

Saturn 121286-04-28 07:38 G 46019979.76 46019979.82 46019979.87 0.0278 0.0256

Uranus 121286-04-30 17:57 G 46019982.15 46019982.25 46019982.36 0.0139 0.0097

Pluto 121286-06-21 19:38 G 46020034.18 46020034.32 46020034.50 0.0059 0.0035

Saturn 121286-07-25 21:19 G 46020068.26 46020068.39 46020068.53 0.0278 0.0100

Uranus 121286-07-27 22:17 G 46020070.35 46020070.43 46020070.51 0.0139 0.0116

Pluto 121286-09-17 21:19 G 46020122.27 46020122.39 46020122.53 0.0059 0.0043

Saturn 121286-10-22 11:00 G 46020156.82 46020156.96 46020157.11 0.0278 0.0055

Uranus 121286-10-24 02:07 G 46020158.57 46020158.59 46020158.62 0.0139 0.0136

Pluto 121286-12-14 22:17 G 46020210.36 46020210.43 46020210.55 0.0059 0.0052

Saturn 121287-01-19 00:26 G 46020245.43 46020245.52 46020245.62 0.0278 0.0207

Moon 121289-04-24 04:17 G 46021071.54 46021071.68 46021071.81 0.2654 0.0789

Earth 121289-04-24 05:14 G 46021071.60 46021071.72 46021071.85 0.2656 0.1058 *

Jupiter 121291-11-13 17:29 G 46022005.09 46022005.23 46022005.36 0.0541 0.0115

Earth 121293-10-17 05:00 G 46022708.59 46022708.71 46022708.82 0.2680 0.0915

Moon 121293-10-17 05:43 G 46022708.63 46022708.74 46022708.86 0.2678 0.0737 *

Mars 121294-07-11 20:50 G 46022976.25 46022976.37 46022976.49 0.1941 0.0047

Jupiter 121297-12-24 14:07 G 46024237.95 46024238.09 46024238.23 0.0487 0.0229

Jupiter 121298-03-24 09:33 G 46024327.83 46024327.90 46024327.97 0.0489 0.0438

Saturn 121300-11-12 23:29 G 46025291.40 46025291.48 46025291.55 0.0282 0.0249

Saturn 121301-02-09 17:00 G 46025380.05 46025380.21 46025380.37 0.0282 0.0071

Saturn 121301-05-09 10:45 G 46025468.80 46025468.95 46025469.11 0.0281 0.0112

Mars 121303-01-22 00:12 G 46026091.38 46026091.51 46026091.64 0.1601 0.0829

Jupiter 121303-09-02 18:55 G 46026315.18 46026315.29 46026315.41 0.0542 0.0315

Jupiter 121303-12-01 09:05 G 46026404.80 46026404.88 46026404.96 0.0540 0.0444

Mars 121303-12-03 03:05 G 46026406.56 46026406.63 46026406.71 0.1945 0.1482

Venus 121305-11-03 05:14 G 46027107.64 46027107.72 46027107.79 0.3729 0.2656

Moon 121306-10-21 00:41 G 46027459.42 46027459.53 46027459.64 0.2670 0.1005

Earth 121306-10-21 00:41 G 46027459.43 46027459.53 46027459.64 0.2677 0.1047 *

Jupiter 121309-10-13 15:19 G 46028548.04 46028548.14 46028548.24 0.0486 0.0387

Jupiter 121310-01-11 10:02 G 46028637.78 46028637.92 46028638.06 0.0488 0.0269

Venus 121311-05-19 23:14 G 46029131.36 46029131.47 46029131.58 0.3725 0.0702

Mars 121312-06-13 04:45 G 46029521.54 46029521.70 46029521.85 0.1598 0.0242

Jupiter 121315-06-21 21:05 G 46030625.34 46030625.38 46030625.44 0.0543 0.0504

Jupiter 121315-09-19 11:43 G 46030714.87 46030714.99 46030715.11 0.0540 0.0269

Saturn 121315-12-13 23:29 G 46030800.35 46030800.48 46030800.61 0.0277 0.0139

Saturn 121316-03-11 13:09 G 46030888.90 46030889.05 46030889.19 0.0277 0.0015

Saturn 121316-06-08 02:36 G 46030977.49 46030977.61 46030977.72 0.0277 0.0167

Venus 121316-12-02 17:14 G 46031155.11 46031155.22 46031155.32 0.3721 0.1189

Jupiter 121321-10-30 10:45 G 46032947.78 46032947.95 46032948.11 0.0488 0.0101

Mars 121321-11-03 09:19 G 46032951.80 46032951.89 46032951.98 0.1595 0.1284

Moon 121322-04-23 09:05 G 46033122.75 46033122.88 46033123.00 0.2654 0.1214

Earth 121322-04-23 10:17 G 46033122.80 46033122.93 46033123.05 0.2654 0.1033 *

Venus 121322-06-18 10:45 G 46033178.89 46033178.95 46033179.01 0.3718 0.2997

Uranus 121324-06-21 03:05 G 46033912.58 46033912.63 46033912.71 0.0140 0.0127

Mars 121324-08-20 14:07 G 46033973.02 46033973.09 46033973.16 0.1936 0.1511

Uranus 121324-09-17 08:50 G 46034000.77 46034000.87 46034000.99 0.0140 0.0104

Uranus 121324-12-14 14:36 G 46034088.98 46034089.11 46034089.25 0.0140 0.0081

Uranus 121325-03-12 20:21 G 46034177.20 46034177.35 46034177.51 0.0140 0.0057

Uranus 121325-06-09 02:07 G 46034265.43 46034265.59 46034265.76 0.0140 0.0034

Uranus 121325-09-05 08:07 G 46034353.67 46034353.84 46034354.00 0.0140 0.0011

Uranus 121325-12-02 13:53 G 46034441.91 46034442.08 46034442.25 0.0140 0.0014

Uranus 121326-02-28 19:38 G 46034530.16 46034530.32 46034530.49 0.0140 0.0038

Uranus 121326-05-28 01:38 G 46034618.42 46034618.57 46034618.73 0.0140 0.0062

Uranus 121326-08-24 07:38 G 46034706.69 46034706.82 46034706.96 0.0139 0.0086

Earth 121326-10-16 13:53 G 46034760.04 46034760.08 46034760.12 0.2681 0.2506

Moon 121326-10-16 14:36 G 46034760.05 46034760.11 46034760.17 0.2676 0.2344 *

Uranus 121326-11-20 13:38 G 46034794.97 46034795.07 46034795.18 0.0139 0.0110

Uranus 121327-02-16 19:24 G 46034883.28 46034883.31 46034883.37 0.0139 0.0135

Jupiter 121327-07-08 14:21 G 46035024.96 46035025.10 46035025.24 0.0541 0.0089

Neptune 121329-04-16 19:24 G 46035673.27 46035673.31 46035673.37 0.0089 0.0084

Neptune 121329-07-13 22:02 G 46035761.34 46035761.42 46035761.51 0.0089 0.0076

Venus 121329-07-15 17:43 G 46035763.12 46035763.24 46035763.36 0.3650 0.1535

Neptune 121329-10-10 00:26 G 46035849.42 46035849.52 46035849.64 0.0089 0.0068

Neptune 121330-01-06 03:05 G 46035937.52 46035937.63 46035937.77 0.0089 0.0060

Neptune 121330-04-04 05:43 G 46036025.61 46036025.74 46036025.89 0.0089 0.0052

Saturn 121330-06-29 15:33 G 46036112.01 46036112.15 46036112.29 0.0282 0.0139

Neptune 121330-07-01 08:36 G 46036113.71 46036113.86 46036114.01 0.0089 0.0043

Saturn 121330-09-26 09:19 G 46036200.73 46036200.89 46036201.06 0.0281 0.0042

Neptune 121330-09-27 11:14 G 46036201.82 46036201.97 46036202.13 0.0089 0.0035

Saturn 121330-12-24 03:33 G 46036289.55 46036289.65 46036289.75 0.0281 0.0225

Neptune 121330-12-24 13:53 G 46036289.92 46036290.08 46036290.25 0.0089 0.0027

Neptune 121331-03-22 16:31 G 46036378.03 46036378.19 46036378.36 0.0089 0.0018

Neptune 121331-06-18 19:24 G 46036466.14 46036466.31 46036466.48 0.0089 0.0010

Neptune 121331-09-14 22:02 G 46036554.25 46036554.42 46036554.59 0.0089 0.0002

Neptune 121331-12-12 00:55 G 46036642.36 46036642.54 46036642.71 0.0089 0.0007

Neptune 121332-03-09 03:19 G 46036730.48 46036730.64 46036730.82 0.0089 0.0016

Neptune 121332-06-05 06:12 G 46036818.60 46036818.76 46036818.93 0.0089 0.0024

Neptune 121332-09-01 08:50 G 46036906.72 46036906.87 46036907.04 0.0089 0.0033

Neptune 121332-11-28 11:43 G 46036994.84 46036994.99 46036995.15 0.0089 0.0042

Neptune 121333-02-24 14:21 G 46037082.97 46037083.10 46037083.26 0.0089 0.0050

Neptune 121333-05-23 17:00 G 46037171.10 46037171.21 46037171.36 0.0089 0.0060

Jupiter 121333-08-18 11:43 G 46037257.83 46037257.99 46037258.15 0.0488 0.0060

Neptune 121333-08-19 20:07 G 46037259.24 46037259.34 46037259.46 0.0089 0.0068

Neptune 121333-11-15 22:45 G 46037347.38 46037347.45 46037347.55 0.0089 0.0077

Mars 121334-01-10 20:50 G 46037403.25 46037403.37 46037403.49 0.1941 0.0144

Neptune 121334-02-12 01:38 G 46037435.54 46037435.57 46037435.63 0.0089 0.0085

Venus 121335-01-29 18:41 G 46037787.16 46037787.28 46037787.41 0.3654 0.1539

Moon 121335-04-26 10:45 G 46037873.84 46037873.95 46037874.07 0.2663 0.1552

Earth 121335-04-26 11:14 G 46037873.86 46037873.97 46037874.08 0.2656 0.1598 *

Jupiter 121339-04-26 16:02 G 46039335.04 46039335.17 46039335.31 0.0541 0.0110

Moon 121339-10-19 09:48 G 46039510.79 46039510.91 46039511.02 0.2674 0.0604

Earth 121339-10-19 10:02 G 46039510.80 46039510.92 46039511.04 0.2679 0.0497 *

Mars 121342-07-23 00:41 G 46040518.40 46040518.53 46040518.65 0.1601 0.0993

Mars 121343-06-03 03:19 G 46040833.55 46040833.64 46040833.73 0.1945 0.1312

Saturn 121345-05-02 00:55 G 46041532.43 46041532.54 46041532.65 0.0278 0.0185

Jupiter 121345-06-06 12:41 G 46041567.89 46041568.03 46041568.18 0.0487 0.0223

Saturn 121345-07-29 14:36 G 46041620.97 46041621.11 46041621.26 0.0278 0.0030

Jupiter 121345-09-04 08:07 G 46041657.77 46041657.84 46041657.91 0.0489 0.0446

Saturn 121345-10-26 04:02 G 46041709.54 46041709.67 46041709.80 0.0278 0.0124

Saturn 121346-01-22 17:14 G 46041798.21 46041798.22 46041798.25 0.0278 0.0274

Jupiter 121351-02-12 17:43 G 46043645.13 46043645.24 46043645.36 0.0541 0.0308

Jupiter 121351-05-13 07:38 G 46043734.75 46043734.82 46043734.90 0.0539 0.0449

Mars 121351-12-13 05:14 G 46043948.56 46043948.72 46043948.87 0.1598 0.0081

Moon 121352-10-21 05:00 G 46044261.61 46044261.71 46044261.81 0.2676 0.1372

Earth 121352-10-21 05:57 G 46044261.65 46044261.75 46044261.85 0.2677 0.1452 *

Jupiter 121357-03-25 13:24 G 46045877.97 46045878.06 46045878.16 0.0486 0.0387

Jupiter 121357-06-23 08:07 G 46045967.71 46045967.84 46045967.98 0.0488 0.0271

Saturn 121359-11-16 17:57 G 46046844.13 46046844.25 46046844.39 0.0282 0.0168

Saturn 121360-02-13 11:57 G 46046932.83 46046933.00 46046933.16 0.0282 0.0013

Saturn 121360-05-12 05:43 G 46047021.63 46047021.74 46047021.87 0.0281 0.0197

Mars 121361-05-04 09:48 G 46047378.80 46047378.91 46047379.02 0.1595 0.1122

Venus 121362-06-10 03:19 G 46047780.55 46047780.64 46047780.73 0.3728 0.2013

Jupiter 121362-12-01 19:09 G 46047955.26 46047955.30 46047955.34 0.0543 0.0515

Jupiter 121363-03-01 09:48 G 46048044.79 46048044.91 46048045.03 0.0540 0.0259

Mars 121364-02-19 14:21 G 46048400.04 46048400.10 46048400.15 0.1936 0.1678

Uranus 121367-09-25 02:07 G 46049713.53 46049713.59 46049713.67 0.0138 0.0122

Uranus 121367-12-22 06:41 G 46049801.68 46049801.78 46049801.89 0.0138 0.0101

Venus 121367-12-24 21:19 G 46049804.28 46049804.39 46049804.50 0.3724 0.0111

Uranus 121368-03-19 11:14 G 46049889.85 46049889.97 46049890.09 0.0138 0.0081

Earth 121368-04-23 16:02 G 46049925.03 46049925.17 46049925.30 0.2654 0.0517

Moon 121368-04-23 16:17 G 46049925.05 46049925.18 46049925.32 0.2660 0.0527 *

Uranus 121368-06-15 15:19 G 46049978.01 46049978.14 46049978.28 0.0138 0.0060

Uranus 121368-09-11 19:38 G 46050066.18 46050066.32 46050066.47 0.0138 0.0040

Uranus 121368-12-08 23:57 G 46050154.36 46050154.50 46050154.65 0.0138 0.0019

Uranus 121369-03-07 04:17 G 46050242.53 46050242.68 46050242.83 0.0138 0.0002

Jupiter 121369-04-11 09:05 G 46050277.72 46050277.88 46050278.04 0.0488 0.0104

Uranus 121369-06-03 08:21 G 46050330.71 46050330.85 46050331.00 0.0138 0.0021

Uranus 121369-08-30 12:26 G 46050418.89 46050419.02 46050419.17 0.0138 0.0042

Uranus 121369-11-26 16:45 G 46050507.07 46050507.20 46050507.33 0.0139 0.0061

Uranus 121370-02-22 20:50 G 46050595.26 46050595.37 46050595.49 0.0139 0.0081

Uranus 121370-05-22 00:55 G 46050683.45 46050683.54 46050683.64 0.0139 0.0101

Uranus 121370-08-18 05:14 G 46050771.65 46050771.72 46050771.79 0.0139 0.0120

Moon 121372-10-16 18:26 G 46051562.20 46051562.27 46051562.35 0.2677 0.2113

Earth 121372-10-16 19:09 G 46051562.23 46051562.30 46051562.38 0.2681 0.2076 *

Venus 121373-07-09 15:05 G 46051828.04 46051828.13 46051828.23 0.3721 0.1778

Mars 121373-07-11 21:05 G 46051830.26 46051830.38 46051830.50 0.1940 0.0290

Saturn 121374-09-19 02:50 G 46052264.54 46052264.62 46052264.71 0.0277 0.0223

Saturn 121374-12-16 16:45 G 46052353.06 46052353.20 46052353.34 0.0277 0.0068

Jupiter 121374-12-18 12:12 G 46052354.88 46052355.01 46052355.15 0.0541 0.0080

Saturn 121375-03-15 06:12 G 46052441.63 46052441.76 46052441.90 0.0277 0.0085

Saturn 121375-06-11 19:24 G 46052530.24 46052530.31 46052530.39 0.0277 0.0236

Venus 121379-01-23 08:50 G 46053851.84 46053851.87 46053851.89 0.3717 0.3577

Venus 121380-08-05 17:00 G 46054412.18 46054412.21 46054412.24 0.3647 0.3527

Jupiter 121381-01-28 09:48 G 46054587.74 46054587.91 46054588.07 0.0487 0.0063

Earth 121381-04-26 17:00 G 46054676.12 46054676.21 46054676.29 0.2656 0.2132

Moon 121381-04-26 17:57 G 46054676.20 46054676.25 46054676.31 0.2658 0.2410 *

Pluto 121381-06-28 21:19 G 46054739.38 46054739.39 46054739.40 0.0085 0.0085

Pluto 121381-09-24 22:31 G 46054827.37 46054827.44 46054827.52 0.0085 0.0067

Pluto 121381-12-21 23:43 G 46054915.39 46054915.49 46054915.60 0.0085 0.0050

Mars 121382-01-21 01:09 G 46054945.45 46054945.55 46054945.66 0.1601 0.1172

Pluto 121382-03-20 00:55 G 46055003.43 46055003.54 46055003.67 0.0085 0.0033

Pluto 121382-06-16 02:21 G 46055091.47 46055091.60 46055091.73 0.0085 0.0016

Pluto 121382-09-12 03:33 G 46055179.52 46055179.65 46055179.79 0.0085 0.0002

Mars 121382-12-02 03:19 G 46055260.54 46055260.64 46055260.74 0.1945 0.1164

Pluto 121382-12-09 04:45 G 46055267.58 46055267.70 46055267.83 0.0085 0.0018

Pluto 121383-03-07 05:57 G 46055355.64 46055355.75 46055355.88 0.0085 0.0035

Pluto 121383-06-03 07:09 G 46055443.70 46055443.80 46055443.91 0.0085 0.0052

Pluto 121383-08-30 08:07 G 46055531.78 46055531.84 46055531.93 0.0084 0.0069

Moon 121385-10-19 14:21 G 46056312.98 46056313.10 46056313.22 0.2682 0.0282

Earth 121385-10-19 15:05 G 46056313.02 46056313.13 46056313.25 0.2679 0.0126 *

Venus 121386-02-19 17:43 G 46056436.10 46056436.24 46056436.37 0.3651 0.0601

Jupiter 121386-10-06 14:50 G 46056664.98 46056665.12 46056665.26 0.0541 0.0103

Saturn 121389-04-04 16:45 G 46057576.11 46057576.20 46057576.28 0.0282 0.0236

Saturn 121389-07-02 10:17 G 46057664.77 46057664.93 46057665.09 0.0282 0.0058

Saturn 121389-09-29 04:02 G 46057753.53 46057753.67 46057753.83 0.0281 0.0125

Mars 121391-06-13 05:29 G 46058375.58 46058375.73 46058375.89 0.1598 0.0090

Venus 121391-09-05 18:55 G 46058460.19 46058460.29 46058460.39 0.3655 0.2549

Jupiter 121392-11-16 11:00 G 46058897.81 46058897.96 46058898.10 0.0487 0.0220

Jupiter 121393-02-14 06:12 G 46058987.70 46058987.76 46058987.83 0.0489 0.0448

Jupiter 121398-07-25 16:31 G 46060975.07 46060975.19 46060975.31 0.0541 0.0300

Earth 121398-10-22 11:00 G 46061063.87 46061063.96 46061064.04 0.2677 0.1848

Moon 121398-10-22 11:00 G 46061063.88 46061063.96 46061064.04 0.2683 0.1942 *

Jupiter 121398-10-23 06:26 G 46061064.70 46061064.77 46061064.85 0.0539 0.0457

Mars 121400-11-03 10:17 G 46061805.81 46061805.93 46061806.05 0.1595 0.0961

Earth 121401-04-22 20:50 G 46061976.34 46061976.37 46061976.41 0.2652 0.2549

Moon 121401-04-22 21:48 G 46061976.35 46061976.41 46061976.47 0.2656 0.2353 *

Mars 121403-08-21 14:21 G 46062827.07 46062827.10 46062827.14 0.1936 0.1845

Saturn 121404-02-07 03:48 G 46062996.65 46062996.66 46062996.69 0.0277 0.0274

Saturn 121404-05-05 17:43 G 46063085.11 46063085.24 46063085.38 0.0278 0.0117

Saturn 121404-08-02 07:24 G 46063173.67 46063173.81 46063173.96 0.0278 0.0038

Jupiter 121404-09-05 11:57 G 46063207.91 46063208.00 46063208.11 0.0487 0.0380

Saturn 121404-10-29 20:50 G 46063262.27 46063262.37 46063262.48 0.0278 0.0189

Jupiter 121404-12-04 06:55 G 46063297.65 46063297.79 46063297.92 0.0489 0.0278

Uranus 121408-07-12 10:31 G 46064613.87 46064613.94 46064614.03 0.0140 0.0121

Uranus 121408-10-08 16:17 G 46064702.07 46064702.18 46064702.30 0.0140 0.0097

Uranus 121409-01-04 22:02 G 46064790.28 46064790.42 46064790.56 0.0140 0.0074

Uranus 121409-04-03 03:33 G 46064878.50 46064878.65 46064878.82 0.0140 0.0051

Uranus 121409-06-30 09:33 G 46064966.74 46064966.90 46064967.06 0.0140 0.0027

Uranus 121409-09-26 15:19 G 46065054.97 46065055.14 46065055.31 0.0140 0.0004

Uranus 121409-12-23 21:05 G 46065143.22 46065143.38 46065143.55 0.0140 0.0021

Neptune 121410-02-15 15:48 G 46065197.12 46065197.16 46065197.23 0.0088 0.0082

Uranus 121410-03-22 02:50 G 46065231.47 46065231.62 46065231.79 0.0140 0.0045

Neptune 121410-05-14 17:43 G 46065285.17 46065285.24 46065285.33 0.0088 0.0075

Jupiter 121410-05-14 17:57 G 46065285.20 46065285.25 46065285.30 0.0542 0.0502 *

Uranus 121410-06-18 08:50 G 46065319.73 46065319.87 46065320.03 0.0140 0.0069

Neptune 121410-08-10 19:38 G 46065373.23 46065373.32 46065373.42 0.0088 0.0067

Jupiter 121410-08-12 08:36 G 46065374.74 46065374.86 46065374.98 0.0540 0.0269

Uranus 121410-09-14 14:50 G 46065408.00 46065408.12 46065408.25 0.0139 0.0093

Neptune 121410-11-06 21:19 G 46065461.29 46065461.39 46065461.51 0.0088 0.0060

Uranus 121410-12-11 20:50 G 46065496.28 46065496.37 46065496.47 0.0139 0.0117

Neptune 121411-02-02 23:00 G 46065549.36 46065549.46 46065549.59 0.0088 0.0054

Neptune 121411-05-02 00:55 G 46065637.42 46065637.54 46065637.67 0.0088 0.0046

Neptune 121411-07-29 02:50 G 46065725.49 46065725.62 46065725.76 0.0088 0.0039

Neptune 121411-10-25 04:31 G 46065813.56 46065813.69 46065813.83 0.0088 0.0032

Neptune 121412-01-21 06:26 G 46065901.63 46065901.77 46065901.91 0.0088 0.0024

Neptune 121412-04-18 08:07 G 46065989.70 46065989.84 46065989.99 0.0088 0.0017

Neptune 121412-07-15 10:02 G 46066077.77 46066077.92 46066078.06 0.0088 0.0011

Neptune 121412-10-11 11:43 G 46066165.84 46066165.99 46066166.14 0.0088 0.0003

Neptune 121413-01-07 13:24 G 46066253.92 46066254.06 46066254.21 0.0088 0.0004

Mars 121413-01-10 21:05 G 46066257.27 46066257.38 46066257.50 0.1940 0.0450

Neptune 121413-04-05 15:05 G 46066341.99 46066342.13 46066342.28 0.0088 0.0011

Venus 121413-07-02 07:09 G 46066429.76 46066429.80 46066429.85 0.3730 0.3371

Neptune 121413-07-02 16:45 G 46066430.06 46066430.20 46066430.35 0.0088 0.0018

Neptune 121413-09-28 18:26 G 46066518.13 46066518.27 46066518.41 0.0088 0.0025

Neptune 121413-12-25 20:07 G 46066606.21 46066606.34 46066606.48 0.0088 0.0032

Neptune 121414-03-23 21:48 G 46066694.28 46066694.41 46066694.55 0.0088 0.0038

Earth 121414-04-25 21:33 G 46066727.26 46066727.40 46066727.54 0.2654 0.0059

Moon 121414-04-25 23:00 G 46066727.32 46066727.46 46066727.59 0.2653 0.0180 *

Neptune 121414-06-19 23:29 G 46066782.36 46066782.48 46066782.61 0.0088 0.0045

Neptune 121414-09-16 00:55 G 46066870.44 46066870.54 46066870.67 0.0088 0.0053

Neptune 121414-12-13 02:36 G 46066958.52 46066958.61 46066958.73 0.0088 0.0059

Neptune 121415-03-11 04:31 G 46067046.60 46067046.69 46067046.79 0.0088 0.0066

Neptune 121415-06-07 05:57 G 46067134.68 46067134.75 46067134.84 0.0088 0.0073

Neptune 121415-09-03 07:24 G 46067222.77 46067222.81 46067222.89 0.0088 0.0080

Neptune 121415-11-30 09:05 G 46067310.87 46067310.88 46067310.93 0.0088 0.0086

Jupiter 121416-09-22 07:24 G 46067607.65 46067607.81 46067607.97 0.0488 0.0107

Saturn 121418-08-23 18:41 G 46068308.24 46068308.28 46068308.33 0.0282 0.0270

Moon 121418-10-18 23:57 G 46068364.41 46068364.50 46068364.59 0.2687 0.1754

Earth 121418-10-19 00:12 G 46068364.42 46068364.51 46068364.61 0.2681 0.1662 *

Saturn 121418-11-20 12:12 G 46068396.86 46068397.01 46068397.17 0.0282 0.0093

Venus 121419-01-16 01:24 G 46068453.46 46068453.56 46068453.67 0.3727 0.1383

Saturn 121419-02-17 06:12 G 46068485.60 46068485.76 46068485.92 0.0282 0.0089

Saturn 121419-05-17 00:12 G 46068574.49 46068574.51 46068574.55 0.0281 0.0275

Mars 121421-07-23 01:38 G 46069372.49 46069372.57 46069372.66 0.1601 0.1340

Jupiter 121422-05-31 10:17 G 46069684.79 46069684.93 46069685.07 0.0541 0.0071

Mars 121422-06-03 03:19 G 46069687.54 46069687.64 46069687.75 0.1945 0.1002

Venus 121424-07-31 19:24 G 46070477.20 46070477.31 46070477.42 0.3723 0.0521

Jupiter 121428-07-11 08:21 G 46071917.69 46071917.85 46071918.01 0.0487 0.0055

Venus 121430-02-14 13:09 G 46072500.97 46072501.05 46072501.13 0.3720 0.2368

Mars 121430-12-13 06:12 G 46072802.60 46072802.76 46072802.91 0.1598 0.0261

Earth 121431-10-21 20:21 G 46073115.23 46073115.35 46073115.47 0.2679 0.0331

Moon 121431-10-21 20:50 G 46073115.25 46073115.37 46073115.48 0.2684 0.0425 *

Saturn 121433-09-22 20:07 G 46073817.22 46073817.34 46073817.46 0.0277 0.0154

Saturn 121433-12-20 09:48 G 46073905.76 46073905.91 46073906.06 0.0277 0.0001

Saturn 121434-03-18 23:00 G 46073994.35 46073994.46 46073994.59 0.0277 0.0152

Jupiter 121434-03-19 12:41 G 46073994.89 46073995.03 46073995.17 0.0542 0.0112

Venus 121437-03-13 16:45 G 46075085.11 46075085.20 46075085.29 0.3647 0.2623

Jupiter 121440-04-29 09:19 G 46076227.74 46076227.89 46076228.03 0.0487 0.0219

Mars 121440-05-04 10:45 G 46076232.82 46076232.95 46076233.09 0.1595 0.0794

Jupiter 121440-07-28 04:31 G 46076317.62 46076317.69 46076317.75 0.0489 0.0448

Venus 121442-09-27 17:43 G 46077109.10 46077109.24 46077109.37 0.3652 0.0395

Earth 121444-10-23 16:02 G 46077866.11 46077866.17 46077866.23 0.2676 0.2251

Moon 121444-10-23 17:00 G 46077866.15 46077866.21 46077866.26 0.2676 0.2358 *

Jupiter 121446-01-05 15:05 G 46078305.02 46078305.13 46078305.25 0.0542 0.0296

Jupiter 121446-04-05 05:14 G 46078394.65 46078394.72 46078394.79 0.0540 0.0464

Earth 121447-04-24 02:36 G 46078778.53 46078778.61 46078778.70 0.2652 0.2029

Moon 121447-04-24 03:33 G 46078778.56 46078778.65 46078778.75 0.2647 0.1936 *

Saturn 121448-04-08 10:45 G 46079128.82 46079128.95 46079129.08 0.0282 0.0162

Venus 121448-04-12 19:09 G 46079133.27 46079133.30 46079133.32 0.3656 0.3576

Saturn 121448-07-06 04:31 G 46079217.52 46079217.69 46079217.85 0.0282 0.0018

Saturn 121448-10-02 22:31 G 46079306.33 46079306.44 46079306.56 0.0281 0.0201

Uranus 121451-07-20 05:00 G 46080326.70 46080326.71 46080326.73 0.0138 0.0137

Uranus 121451-10-16 09:33 G 46080414.82 46080414.90 46080414.98 0.0138 0.0116

Uranus 121452-01-12 13:38 G 46080502.98 46080503.07 46080503.19 0.0138 0.0096

Jupiter 121452-02-16 10:31 G 46080537.84 46080537.94 46080538.05 0.0486 0.0374

Uranus 121452-04-09 18:12 G 46080591.14 46080591.26 46080591.39 0.0138 0.0075

Jupiter 121452-05-16 05:14 G 46080627.59 46080627.72 46080627.86 0.0488 0.0283

Uranus 121452-07-06 22:31 G 46080679.31 46080679.44 46080679.58 0.0138 0.0055

Mars 121452-07-11 21:05 G 46080684.27 46080684.38 46080684.50 0.1941 0.0603

Uranus 121452-10-03 02:50 G 46080767.48 46080767.62 46080767.77 0.0138 0.0035

Uranus 121452-12-30 07:09 G 46080855.65 46080855.80 46080855.95 0.0138 0.0014

Uranus 121453-03-28 11:29 G 46080943.83 46080943.98 46080944.13 0.0138 0.0006

Uranus 121453-06-24 15:33 G 46081032.01 46081032.15 46081032.30 0.0138 0.0026

Uranus 121453-09-20 19:38 G 46081120.19 46081120.32 46081120.47 0.0138 0.0047

Uranus 121453-12-17 23:43 G 46081208.37 46081208.49 46081208.63 0.0139 0.0067

Uranus 121454-03-16 04:02 G 46081296.56 46081296.67 46081296.79 0.0139 0.0086

Uranus 121454-06-12 08:07 G 46081384.75 46081384.84 46081384.94 0.0139 0.0106

Uranus 121454-09-08 11:57 G 46081472.96 46081473.00 46081473.07 0.0139 0.0126

Jupiter 121457-10-24 17:00 G 46082615.15 46082615.21 46082615.26 0.0542 0.0492

Jupiter 121458-01-22 07:24 G 46082704.70 46082704.81 46082704.93 0.0540 0.0279

Moon 121460-04-26 02:50 G 46083529.48 46083529.62 46083529.75 0.2649 0.0489

Earth 121460-04-26 03:19 G 46083529.51 46083529.64 46083529.78 0.2655 0.0544 *

Mars 121461-01-21 02:07 G 46083799.54 46083799.59 46083799.64 0.1601 0.1504

Mars 121461-12-02 03:33 G 46084114.55 46084114.65 46084114.76 0.1944 0.0827

Saturn 121463-02-09 20:36 G 46084549.27 46084549.36 46084549.46 0.0277 0.0208

Saturn 121463-05-09 10:31 G 46084637.79 46084637.94 46084638.08 0.0277 0.0053

Saturn 121463-08-05 23:57 G 46084726.37 46084726.50 46084726.64 0.0278 0.0100

Saturn 121463-11-02 13:24 G 46084815.00 46084815.06 46084815.12 0.0278 0.0250

Jupiter 121464-03-04 06:12 G 46084937.60 46084937.76 46084937.92 0.0488 0.0117

Earth 121464-10-19 05:29 G 46085166.62 46085166.73 46085166.84 0.2680 0.1234

Moon 121464-10-19 06:12 G 46085166.65 46085166.76 46085166.87 0.2684 0.1193 *

Jupiter 121469-11-10 09:33 G 46087014.76 46087014.90 46087015.04 0.0540 0.0088

Venus 121470-02-06 05:29 G 46087102.65 46087102.73 46087102.80 0.3730 0.2724

Mars 121470-06-13 06:41 G 46087229.63 46087229.78 46087229.93 0.1598 0.0428

Venus 121475-08-22 23:29 G 46089126.37 46089126.48 46089126.59 0.3726 0.0767

Jupiter 121475-12-22 06:55 G 46089247.63 46089247.79 46089247.95 0.0487 0.0049

Saturn 121477-08-26 12:12 G 46089860.90 46089861.01 46089861.12 0.0282 0.0202

Earth 121477-10-22 01:24 G 46089917.44 46089917.56 46089917.67 0.2678 0.0732

Moon 121477-10-22 02:07 G 46089917.47 46089917.59 46089917.70 0.2674 0.0922 *

Saturn 121477-11-23 05:57 G 46089949.58 46089949.75 46089949.91 0.0282 0.0022

Saturn 121478-02-19 23:57 G 46090038.36 46090038.50 46090038.63 0.0282 0.0161

Mars 121479-11-03 11:14 G 46090659.83 46090659.97 46090660.11 0.1596 0.0627

Venus 121481-03-07 17:29 G 46091150.12 46091150.23 46091150.33 0.3722 0.1128

Jupiter 121481-08-29 11:00 G 46091324.82 46091324.96 46091325.09 0.0542 0.0116

Venus 121486-09-21 11:14 G 46093173.90 46093173.97 46093174.03 0.3718 0.2953

Jupiter 121487-10-10 08:07 G 46093557.69 46093557.84 46093557.99 0.0487 0.0208

Jupiter 121488-01-08 03:05 G 46093647.58 46093647.63 46093647.69 0.0488 0.0459

Moon 121490-10-24 20:50 G 46094668.33 46094668.37 46094668.40 0.2670 0.2526

Earth 121490-10-24 21:05 G 46094668.37 46094668.38 46094668.39 0.2676 0.2650 *

Mars 121492-01-10 21:19 G 46095111.28 46095111.39 46095111.50 0.1940 0.0769

Uranus 121492-05-05 12:26 G 46095226.99 46095227.02 46095227.06 0.0140 0.0137

Saturn 121492-06-28 23:00 G 46095281.40 46095281.46 46095281.54 0.0276 0.0243

Uranus 121492-08-01 17:43 G 46095315.16 46095315.24 46095315.35 0.0140 0.0115

Saturn 121492-09-25 12:55 G 46095369.90 46095370.04 46095370.18 0.0276 0.0088

Uranus 121492-10-28 23:29 G 46095403.37 46095403.48 46095403.62 0.0140 0.0091

Saturn 121492-12-23 02:36 G 46095458.47 46095458.61 46095458.75 0.0277 0.0065

Uranus 121493-01-25 05:29 G 46095491.58 46095491.73 46095491.87 0.0140 0.0067

Saturn 121493-03-21 15:48 G 46095547.07 46095547.16 46095547.25 0.0277 0.0214

Uranus 121493-04-23 11:00 G 46095579.81 46095579.96 46095580.13 0.0140 0.0044

Moon 121493-04-24 07:24 G 46095580.71 46095580.81 46095580.92 0.2649 0.1733

Earth 121493-04-24 08:21 G 46095580.74 46095580.85 46095580.97 0.2653 0.1505 *

Jupiter 121493-06-17 13:09 G 46095634.93 46095635.05 46095635.17 0.0542 0.0304

Uranus 121493-07-20 16:45 G 46095668.04 46095668.20 46095668.37 0.0140 0.0021

Jupiter 121493-09-15 03:19 G 46095724.57 46095724.64 46095724.71 0.0540 0.0458

Neptune 121493-10-16 15:48 G 46095756.15 46095756.16 46095756.18 0.0089 0.0088

Uranus 121493-10-16 22:45 G 46095756.28 46095756.45 46095756.62 0.0140 0.0003

Venus 121493-10-18 16:45 G 46095758.08 46095758.20 46095758.32 0.3649 0.1683

Neptune 121494-01-12 18:12 G 46095844.20 46095844.26 46095844.34 0.0089 0.0080

Uranus 121494-01-13 04:31 G 46095844.53 46095844.69 46095844.86 0.0140 0.0027

Neptune 121494-04-10 20:50 G 46095932.28 46095932.37 46095932.47 0.0089 0.0072

Uranus 121494-04-11 10:31 G 46095932.78 46095932.94 46095933.09 0.0140 0.0051

Neptune 121494-07-07 23:14 G 46096020.37 46096020.47 46096020.60 0.0089 0.0064

Uranus 121494-07-08 16:02 G 46096021.04 46096021.17 46096021.33 0.0140 0.0076

Neptune 121494-10-04 01:53 G 46096108.46 46096108.58 46096108.73 0.0089 0.0056

Uranus 121494-10-04 22:02 G 46096109.31 46096109.42 46096109.55 0.0139 0.0100

Neptune 121494-12-31 04:31 G 46096196.56 46096196.69 46096196.85 0.0089 0.0048

Uranus 121495-01-01 04:02 G 46096197.61 46096197.67 46096197.76 0.0139 0.0124

Neptune 121495-03-29 07:24 G 46096284.66 46096284.81 46096284.97 0.0089 0.0039

Neptune 121495-06-25 10:02 G 46096372.76 46096372.92 46096373.08 0.0089 0.0031

Neptune 121495-09-21 12:41 G 46096460.87 46096461.03 46096461.20 0.0089 0.0023

Neptune 121495-12-18 15:33 G 46096548.98 46096549.15 46096549.31 0.0089 0.0015

Neptune 121496-03-15 18:12 G 46096637.09 46096637.26 46096637.43 0.0089 0.0006

Neptune 121496-06-11 20:50 G 46096725.20 46096725.37 46096725.54 0.0089 0.0002

Neptune 121496-09-07 23:29 G 46096813.31 46096813.48 46096813.65 0.0089 0.0011

Neptune 121496-12-05 02:21 G 46096901.43 46096901.60 46096901.77 0.0089 0.0019

Neptune 121497-03-03 05:00 G 46096989.55 46096989.71 46096989.88 0.0089 0.0028

Neptune 121497-05-30 07:53 G 46097077.67 46097077.83 46097077.98 0.0089 0.0037

Neptune 121497-08-26 10:17 G 46097165.79 46097165.93 46097166.09 0.0089 0.0046

Moon 121497-10-17 15:19 G 46097218.13 46097218.14 46097218.15 0.2683 0.2661

Neptune 121497-11-22 12:55 G 46097253.92 46097254.04 46097254.20 0.0089 0.0055

Neptune 121498-02-18 16:02 G 46097342.05 46097342.17 46097342.30 0.0089 0.0063

Neptune 121498-05-17 18:41 G 46097430.19 46097430.28 46097430.40 0.0089 0.0071

Neptune 121498-08-13 21:19 G 46097518.34 46097518.39 46097518.48 0.0089 0.0081

Neptune 121498-11-10 00:12 G 46097606.51 46097606.51 46097606.54 0.0089 0.0089

Venus 121499-05-04 17:43 G 46097782.11 46097782.24 46097782.37 0.3653 0.1378

Jupiter 121499-07-29 09:05 G 46097867.78 46097867.88 46097867.99 0.0486 0.0369

Jupiter 121499-10-27 03:48 G 46097957.52 46097957.66 46097957.79 0.0488 0.0286

Mars 121501-06-03 03:33 G 46098541.54 46098541.65 46098541.76 0.1944 0.0684

Jupiter 121505-04-06 15:19 G 46099945.09 46099945.14 46099945.21 0.0543 0.0490

Jupiter 121505-07-05 06:12 G 46100034.64 46100034.76 46100034.88 0.0541 0.0284

Moon 121506-04-28 08:07 G 46100331.71 46100331.84 46100331.96 0.2658 0.0987

Earth 121506-04-28 09:19 G 46100331.76 46100331.89 46100332.01 0.2655 0.1085 *

Saturn 121507-01-14 10:45 G 46100592.91 46100592.95 46100593.00 0.0282 0.0270

Saturn 121507-04-13 04:17 G 46100681.53 46100681.68 46100681.84 0.0282 0.0092

Saturn 121507-07-10 22:02 G 46100770.27 46100770.42 46100770.58 0.0282 0.0090

Saturn 121507-10-07 16:17 G 46100859.15 46100859.18 46100859.22 0.0282 0.0274

Mars 121509-12-13 06:55 G 46101656.65 46101656.79 46101656.94 0.1598 0.0592

Earth 121510-10-21 10:31 G 46101968.83 46101968.94 46101969.06 0.2680 0.0820

Moon 121510-10-21 11:00 G 46101968.84 46101968.96 46101969.07 0.2674 0.0792 *

Jupiter 121511-08-16 04:45 G 46102267.54 46102267.70 46102267.86 0.0488 0.0124

Jupiter 121517-04-23 08:21 G 46104344.72 46104344.85 46104344.99 0.0541 0.0100

Mars 121519-05-05 11:43 G 46105086.84 46105086.99 46105087.14 0.1596 0.0469

Saturn 121522-02-13 13:09 G 46106101.93 46106102.05 46106102.18 0.0277 0.0146

Saturn 121522-05-13 02:50 G 46106190.48 46106190.62 46106190.77 0.0277 0.0010

Saturn 121522-08-09 16:17 G 46106279.07 46106279.18 46106279.30 0.0277 0.0160

Jupiter 121523-06-04 05:43 G 46106577.57 46106577.74 46106577.90 0.0487 0.0041

Moon 121523-10-24 05:57 G 46106719.64 46106719.75 46106719.86 0.2673 0.1068

Earth 121523-10-24 06:26 G 46106719.67 46106719.77 46106719.88 0.2678 0.1148 *

Venus 121526-09-14 03:33 G 46107775.56 46107775.65 46107775.74 0.3728 0.2084

Mars 121528-09-24 16:31 G 46108517.14 46108517.19 46108517.24 0.1593 0.1497

Jupiter 121529-02-09 10:17 G 46108654.80 46108654.93 46108655.07 0.0541 0.0096

Mars 121531-07-12 21:19 G 46109538.28 46109538.39 46109538.49 0.1940 0.0917

Pluto 121531-11-25 11:29 G 46109673.94 46109673.98 46109674.05 0.0058 0.0056

Pluto 121532-02-21 12:41 G 46109761.94 46109762.03 46109762.16 0.0059 0.0048

Venus 121532-03-29 21:33 G 46109799.29 46109799.40 46109799.51 0.3725 0.0176

Pluto 121532-05-19 14:07 G 46109849.96 46109850.09 46109850.25 0.0059 0.0040

Pluto 121532-08-15 15:19 G 46109937.99 46109938.14 46109938.32 0.0059 0.0032

Pluto 121532-11-11 17:00 G 46110026.03 46110026.21 46110026.39 0.0059 0.0023

Pluto 121533-02-07 18:12 G 46110114.08 46110114.26 46110114.46 0.0059 0.0015

Pluto 121533-05-06 19:38 G 46110202.13 46110202.32 46110202.52 0.0059 0.0007

Pluto 121533-08-02 21:05 G 46110290.18 46110290.38 46110290.58 0.0059 0.0002

Pluto 121533-10-29 22:17 G 46110378.24 46110378.43 46110378.63 0.0059 0.0010

Pluto 121534-01-25 23:14 G 46110466.30 46110466.47 46110466.68 0.0059 0.0019

Pluto 121534-04-24 00:41 G 46110554.37 46110554.53 46110554.72 0.0059 0.0027

Pluto 121534-07-21 02:21 G 46110642.44 46110642.60 46110642.76 0.0059 0.0035

Pluto 121534-10-17 03:19 G 46110730.53 46110730.64 46110730.79 0.0059 0.0044

Pluto 121535-01-13 04:45 G 46110818.63 46110818.70 46110818.80 0.0059 0.0053

Jupiter 121535-03-23 06:41 G 46110887.64 46110887.78 46110887.93 0.0487 0.0200

Jupiter 121535-06-21 01:53 G 46110977.54 46110977.58 46110977.63 0.0489 0.0467

Uranus 121535-08-10 11:43 G 46111027.97 46111027.99 46111028.05 0.0138 0.0133

Uranus 121535-11-06 16:17 G 46111116.11 46111116.18 46111116.28 0.0138 0.0112

Uranus 121536-02-02 20:50 G 46111204.26 46111204.37 46111204.49 0.0138 0.0091

Uranus 121536-05-01 01:09 G 46111292.43 46111292.55 46111292.68 0.0138 0.0071

Uranus 121536-07-28 05:29 G 46111380.60 46111380.73 46111380.87 0.0138 0.0050

Saturn 121536-08-30 05:14 G 46111413.58 46111413.72 46111413.86 0.0282 0.0138

Uranus 121536-10-24 09:48 G 46111468.77 46111468.91 46111469.06 0.0138 0.0030

Saturn 121536-11-26 23:00 G 46111502.30 46111502.46 46111502.63 0.0282 0.0044

Uranus 121537-01-20 14:07 G 46111556.95 46111557.09 46111557.24 0.0138 0.0010

Saturn 121537-02-23 17:00 G 46111591.12 46111591.21 46111591.31 0.0282 0.0228

Uranus 121537-04-18 18:26 G 46111645.12 46111645.27 46111645.42 0.0138 0.0011

Uranus 121537-07-15 22:31 G 46111733.30 46111733.44 46111733.59 0.0138 0.0031

Uranus 121537-10-12 02:50 G 46111821.48 46111821.62 46111821.76 0.0138 0.0051

Venus 121537-10-13 15:33 G 46111823.05 46111823.15 46111823.24 0.3721 0.1731

Uranus 121538-01-08 06:55 G 46111909.67 46111909.79 46111909.92 0.0139 0.0071

Uranus 121538-04-06 11:00 G 46111997.86 46111997.96 46111998.08 0.0139 0.0091

Uranus 121538-07-03 15:05 G 46112086.05 46112086.13 46112086.23 0.0139 0.0111

Uranus 121538-09-29 19:09 G 46112174.26 46112174.30 46112174.36 0.0139 0.0130

Moon 121539-04-26 13:38 G 46112382.94 46112383.07 46112383.19 0.2659 0.1092

Earth 121539-04-26 14:07 G 46112382.96 46112383.09 46112383.22 0.2653 0.0986 *

Jupiter 121540-11-28 11:29 G 46112964.86 46112964.98 46112965.09 0.0542 0.0305

Mars 121540-12-02 03:48 G 46112968.54 46112968.66 46112968.78 0.1944 0.0506

Jupiter 121541-02-26 01:38 G 46113054.50 46113054.57 46113054.64 0.0540 0.0457

Venus 121543-04-29 09:05 G 46113846.85 46113846.88 46113846.91 0.3717 0.3533

Moon 121543-10-19 19:38 G 46114020.27 46114020.32 46114020.36 0.2676 0.2461

Earth 121543-10-19 19:38 G 46114020.27 46114020.32 46114020.37 0.2682 0.2408 *

Jupiter 121547-01-09 08:07 G 46115197.73 46115197.84 46115197.95 0.0486 0.0355

Jupiter 121547-04-09 02:36 G 46115287.49 46115287.61 46115287.75 0.0488 0.0300

Mars 121549-06-13 07:38 G 46116083.68 46116083.82 46116083.96 0.1599 0.0765

Venus 121550-05-26 16:45 G 46116431.06 46116431.20 46116431.33 0.3650 0.0734

Saturn 121551-07-03 15:48 G 46116834.05 46116834.16 46116834.27 0.0276 0.0179

Saturn 121551-09-30 05:29 G 46116922.59 46116922.73 46116922.88 0.0276 0.0026

Saturn 121551-12-27 18:55 G 46117011.16 46117011.29 46117011.42 0.0277 0.0126

Saturn 121552-03-25 08:07 G 46117099.83 46117099.84 46117099.86 0.0277 0.0274

Earth 121552-04-28 15:05 G 46117134.02 46117134.13 46117134.24 0.2655 0.1620

Moon 121552-04-28 15:48 G 46117134.05 46117134.16 46117134.26 0.2660 0.1739 *

Jupiter 121552-09-16 13:24 G 46117275.01 46117275.06 46117275.12 0.0543 0.0497

Jupiter 121552-12-15 04:17 G 46117364.56 46117364.68 46117364.80 0.0541 0.0279

Venus 121555-12-10 17:57 G 46118455.14 46118455.25 46118455.35 0.3654 0.2387

Moon 121556-10-21 14:50 G 46118771.01 46118771.12 46118771.24 0.2677 0.0470

Earth 121556-10-21 15:48 G 46118771.04 46118771.16 46118771.28 0.2680 0.0399 *

Mars 121558-11-03 12:12 G 46119513.85 46119514.01 46119514.16 0.1596 0.0302

Jupiter 121559-01-26 03:19 G 46119597.48 46119597.64 46119597.80 0.0487 0.0130

Jupiter 121564-10-03 07:09 G 46121674.66 46121674.80 46121674.93 0.0541 0.0104

Saturn 121566-01-17 04:02 G 46122145.56 46122145.67 46122145.78 0.0282 0.0204

Saturn 121566-04-15 21:33 G 46122234.24 46122234.40 46122234.56 0.0282 0.0026

Saturn 121566-07-13 15:33 G 46122323.01 46122323.15 46122323.29 0.0282 0.0157

Mars 121568-03-25 17:00 G 46122944.13 46122944.21 46122944.29 0.1593 0.1340

Moon 121569-10-24 11:00 G 46123521.86 46123521.96 46123522.06 0.2684 0.1406

Earth 121569-10-24 11:29 G 46123521.89 46123521.98 46123522.08 0.2678 0.1558 *

Jupiter 121570-11-14 04:31 G 46123907.52 46123907.69 46123907.85 0.0487 0.0033

Mars 121571-01-10 21:19 G 46123965.30 46123965.39 46123965.49 0.1940 0.1090

Neptune 121574-08-17 13:38 G 46125280.04 46125280.07 46125280.10 0.0088 0.0086

Neptune 121574-11-13 15:19 G 46125368.08 46125368.14 46125368.21 0.0088 0.0079

Neptune 121575-02-09 17:00 G 46125456.13 46125456.21 46125456.31 0.0088 0.0071

Neptune 121575-05-08 18:41 G 46125544.20 46125544.28 46125544.40 0.0088 0.0065

Neptune 121575-08-04 20:50 G 46125632.26 46125632.37 46125632.48 0.0088 0.0057

Neptune 121575-10-31 22:31 G 46125720.33 46125720.44 46125720.57 0.0088 0.0050

Neptune 121576-01-28 00:26 G 46125808.39 46125808.52 46125808.65 0.0088 0.0042

Neptune 121576-04-25 02:07 G 46125896.46 46125896.59 46125896.73 0.0088 0.0035

Uranus 121576-05-26 19:53 G 46125928.28 46125928.33 46125928.40 0.0140 0.0129

Neptune 121576-07-22 03:48 G 46125984.53 46125984.66 46125984.81 0.0088 0.0029

Jupiter 121576-07-22 09:19 G 46125984.75 46125984.89 46125985.03 0.0541 0.0084 *

Uranus 121576-08-23 01:38 G 46126016.46 46126016.57 46126016.67 0.0140 0.0106

Neptune 121576-10-18 05:43 G 46126072.60 46126072.74 46126072.89 0.0088 0.0021

Uranus 121576-11-19 07:09 G 46126104.67 46126104.80 46126104.94 0.0140 0.0083

Neptune 121577-01-14 07:24 G 46126160.67 46126160.81 46126160.96 0.0088 0.0015

Uranus 121577-02-15 12:55 G 46126192.89 46126193.04 46126193.19 0.0140 0.0060

Neptune 121577-04-12 09:19 G 46126248.74 46126248.89 46126249.04 0.0088 0.0007

Uranus 121577-05-14 18:41 G 46126281.12 46126281.28 46126281.44 0.0140 0.0037

Neptune 121577-07-09 11:00 G 46126336.82 46126336.96 46126337.11 0.0088 0.0002

Uranus 121577-08-11 00:26 G 46126369.35 46126369.52 46126369.69 0.0140 0.0013

Venus 121577-10-05 07:24 G 46126424.77 46126424.81 46126424.85 0.3731 0.3444

Neptune 121577-10-05 12:41 G 46126424.89 46126425.03 46126425.18 0.0088 0.0008

Uranus 121577-11-07 06:12 G 46126457.59 46126457.76 46126457.93 0.0140 0.0011

Neptune 121578-01-01 14:36 G 46126512.96 46126513.11 46126513.25 0.0088 0.0014

Uranus 121578-02-03 11:57 G 46126545.84 46126546.00 46126546.17 0.0140 0.0035

Neptune 121578-03-30 16:17 G 46126601.04 46126601.18 46126601.32 0.0088 0.0021

Uranus 121578-05-02 17:43 G 46126634.10 46126634.24 46126634.40 0.0140 0.0059

Neptune 121578-06-26 17:43 G 46126689.11 46126689.24 46126689.39 0.0088 0.0029

Uranus 121578-07-29 23:43 G 46126722.36 46126722.49 46126722.63 0.0140 0.0083

Neptune 121578-09-22 19:24 G 46126777.19 46126777.31 46126777.45 0.0088 0.0035

Uranus 121578-10-26 05:43 G 46126810.64 46126810.74 46126810.85 0.0139 0.0107

Neptune 121578-12-19 21:05 G 46126865.26 46126865.38 46126865.52 0.0088 0.0042

Uranus 121579-01-22 11:29 G 46126898.94 46126898.98 46126899.05 0.0139 0.0131

Neptune 121579-03-17 23:00 G 46126953.34 46126953.46 46126953.58 0.0088 0.0049

Neptune 121579-06-14 00:41 G 46127041.42 46127041.53 46127041.64 0.0088 0.0055

Neptune 121579-09-10 02:07 G 46127129.50 46127129.59 46127129.70 0.0088 0.0063

Neptune 121579-12-07 03:48 G 46127217.58 46127217.66 46127217.76 0.0088 0.0069

Neptune 121580-03-04 05:14 G 46127305.67 46127305.72 46127305.81 0.0088 0.0076

Neptune 121580-05-31 07:09 G 46127393.76 46127393.80 46127393.85 0.0088 0.0083

Mars 121580-06-02 03:48 G 46127395.55 46127395.66 46127395.78 0.1944 0.0352

Saturn 121580-11-19 15:48 G 46127566.09 46127566.16 46127566.23 0.0277 0.0240

Saturn 121581-02-16 05:29 G 46127654.59 46127654.73 46127654.87 0.0277 0.0085

Saturn 121581-05-15 19:09 G 46127743.16 46127743.30 46127743.44 0.0277 0.0068

Saturn 121581-08-12 08:21 G 46127831.77 46127831.85 46127831.95 0.0277 0.0219

Jupiter 121582-09-02 05:29 G 46128217.58 46128217.73 46128217.88 0.0487 0.0191

Jupiter 121582-12-01 00:41 G 46128307.50 46128307.53 46128307.57 0.0489 0.0477

Venus 121583-04-21 01:38 G 46128448.47 46128448.57 46128448.67 0.3727 0.1451

Earth 121585-04-26 19:53 G 46129185.19 46129185.33 46129185.47 0.2653 0.0472

Moon 121585-04-26 20:50 G 46129185.23 46129185.37 46129185.51 0.2657 0.0229 *

Jupiter 121588-05-10 11:14 G 46130294.85 46130294.97 46130295.09 0.0542 0.0280

Jupiter 121588-08-08 01:09 G 46130384.49 46130384.55 46130384.62 0.0540 0.0480

Venus 121588-11-03 19:38 G 46130472.21 46130472.32 46130472.43 0.3724 0.0487

Mars 121588-12-12 08:07 G 46130510.71 46130510.84 46130510.96 0.1599 0.0932

Moon 121589-10-19 23:57 G 46130822.43 46130822.50 46130822.56 0.2682 0.2203

Earth 121589-10-20 00:55 G 46130822.46 46130822.54 46130822.62 0.2682 0.1987 *

Mars 121589-10-23 10:02 G 46130825.88 46130825.92 46130825.96 0.1947 0.1831

Venus 121594-05-20 13:38 G 46132495.98 46132496.07 46132496.15 0.3720 0.2332

Jupiter 121594-06-21 06:55 G 46132527.68 46132527.79 46132527.90 0.0486 0.0346

Jupiter 121594-09-19 01:38 G 46132617.44 46132617.57 46132617.69 0.0488 0.0310

Saturn 121595-06-06 04:17 G 46132877.62 46132877.68 46132877.75 0.0282 0.0255

Saturn 121595-09-02 22:02 G 46132966.26 46132966.42 46132966.57 0.0282 0.0077

Saturn 121595-11-30 15:48 G 46133055.01 46133055.16 46133055.32 0.0282 0.0106

Earth 121598-04-29 20:50 G 46133936.29 46133936.37 46133936.45 0.2656 0.2159

Moon 121598-04-29 21:48 G 46133936.34 46133936.41 46133936.49 0.2652 0.2226 *

Mars 121598-05-04 12:41 G 46133940.87 46133941.03 46133941.18 0.1596 0.0136

Jupiter 121600-02-27 11:57 G 46134604.94 46134605.00 46134605.05 0.0543 0.0495

Jupiter 121600-05-27 02:50 G 46134694.50 46134694.62 46134694.74 0.0541 0.0280

Venus 121601-06-16 15:48 G 46135080.08 46135080.16 46135080.25 0.3647 0.2744

Moon 121602-10-22 20:36 G 46135573.25 46135573.36 46135573.48 0.2686 0.0105

Earth 121602-10-22 20:50 G 46135573.25 46135573.37 46135573.49 0.2679 0.0027 *

Jupiter 121606-07-08 02:21 G 46136927.45 46136927.60 46136927.76 0.0487 0.0147

Venus 121606-12-31 16:45 G 46137104.06 46137104.20 46137104.33 0.3651 0.0256

Mars 121607-09-24 17:29 G 46137371.13 46137371.23 46137371.33 0.1593 0.1171

Saturn 121610-04-08 18:26 G 46138298.25 46138298.27 46138298.29 0.0276 0.0272

Saturn 121610-07-06 08:21 G 46138386.72 46138386.85 46138386.98 0.0276 0.0117

Mars 121610-07-11 21:33 G 46138392.31 46138392.40 46138392.49 0.1939 0.1240

Saturn 121610-10-02 22:02 G 46138475.27 46138475.42 46138475.56 0.0276 0.0036

Saturn 121610-12-30 11:14 G 46138563.87 46138563.97 46138564.08 0.0277 0.0186

Jupiter 121612-03-15 05:14 G 46139004.58 46139004.72 46139004.85 0.0541 0.0098

Venus 121612-07-16 17:57 G 46139128.21 46139128.25 46139128.30 0.3655 0.3410

Earth 121615-10-25 16:45 G 46140324.12 46140324.20 46140324.28 0.2677 0.1961

Moon 121615-10-25 17:29 G 46140324.15 46140324.23 46140324.30 0.2682 0.2028 *

Earth 121618-04-25 01:09 G 46141236.50 46141236.55 46141236.59 0.2651 0.2477

Moon 121618-04-25 02:21 G 46141236.54 46141236.60 46141236.66 0.2652 0.2336 *

Jupiter 121618-04-26 03:05 G 46141237.47 46141237.63 46141237.79 0.0487 0.0022

Uranus 121619-08-30 19:09 G 46141729.26 46141729.30 46141729.37 0.0138 0.0127

Uranus 121619-11-26 23:43 G 46141817.40 46141817.49 46141817.59 0.0138 0.0106

Mars 121619-12-02 03:48 G 46141822.54 46141822.66 46141822.78 0.1944 0.0201

Uranus 121620-02-23 04:17 G 46141905.56 46141905.68 46141905.80 0.0138 0.0085

Uranus 121620-05-21 08:21 G 46141993.73 46141993.85 46141993.99 0.0138 0.0065

Uranus 121620-08-17 12:55 G 46142081.90 46142082.04 46142082.18 0.0138 0.0044

Uranus 121620-11-13 17:14 G 46142170.07 46142170.22 46142170.37 0.0138 0.0024

Uranus 121621-02-09 21:33 G 46142258.25 46142258.40 46142258.55 0.0138 0.0004

Uranus 121621-05-09 01:38 G 46142346.43 46142346.57 46142346.72 0.0138 0.0017

Uranus 121621-08-05 05:57 G 46142434.61 46142434.75 46142434.89 0.0138 0.0037

Uranus 121621-11-01 10:17 G 46142522.79 46142522.93 46142523.06 0.0138 0.0057

Uranus 121622-01-28 14:21 G 46142610.98 46142611.10 46142611.22 0.0139 0.0077

Uranus 121622-04-26 18:26 G 46142699.17 46142699.27 46142699.38 0.0139 0.0097

Uranus 121622-07-23 22:31 G 46142787.37 46142787.44 46142787.52 0.0139 0.0116

Uranus 121622-10-20 02:36 G 46142875.59 46142875.61 46142875.64 0.0139 0.0136

Jupiter 121624-01-02 07:53 G 46143314.69 46143314.83 46143314.97 0.0542 0.0083

Saturn 121625-01-19 20:50 G 46143698.23 46143698.37 46143698.51 0.0282 0.0141

Saturn 121625-04-18 14:36 G 46143786.95 46143787.11 46143787.27 0.0282 0.0039

Saturn 121625-07-16 08:21 G 46143875.76 46143875.85 46143875.96 0.0282 0.0223

Mars 121628-06-12 08:21 G 46144937.74 46144937.85 46144937.97 0.1599 0.1095

Mars 121629-04-23 10:17 G 46145252.87 46145252.93 46145252.99 0.1947 0.1652

Pluto 121629-10-23 06:12 G 46145435.70 46145435.76 46145435.84 0.0085 0.0073

Pluto 121630-01-19 07:38 G 46145523.72 46145523.82 46145523.92 0.0085 0.0055

Jupiter 121630-02-12 04:17 G 46145547.53 46145547.68 46145547.83 0.0487 0.0180

Pluto 121630-04-17 08:50 G 46145611.76 46145611.87 46145612.00 0.0085 0.0038

Jupiter 121630-05-12 23:29 G 46145637.47 46145637.48 46145637.49 0.0488 0.0486

Pluto 121630-07-14 10:17 G 46145699.80 46145699.93 46145700.06 0.0085 0.0021

Pluto 121630-10-10 11:29 G 46145787.85 46145787.98 46145788.11 0.0085 0.0004

Pluto 121631-01-06 12:41 G 46145875.90 46145876.03 46145876.16 0.0085 0.0013

Pluto 121631-04-04 13:53 G 46145963.96 46145964.08 46145964.21 0.0085 0.0030

Earth 121631-04-28 01:38 G 46145987.43 46145987.57 46145987.71 0.2654 0.0056

Moon 121631-04-28 02:07 G 46145987.45 46145987.59 46145987.73 0.2647 0.0175 *

Pluto 121631-07-01 15:05 G 46146052.02 46146052.13 46146052.24 0.0085 0.0047

Pluto 121631-09-27 16:02 G 46146140.10 46146140.17 46146140.27 0.0084 0.0064

Pluto 121631-12-24 17:29 G 46146228.19 46146228.23 46146228.28 0.0084 0.0080

Venus 121634-05-12 05:43 G 46147097.66 46147097.74 46147097.81 0.3730 0.2790

Earth 121635-10-21 05:57 G 46147624.65 46147624.75 46147624.85 0.2681 0.1561

Moon 121635-10-21 06:12 G 46147624.66 46147624.76 46147624.86 0.2688 0.1511 *

Jupiter 121635-10-21 10:02 G 46147624.80 46147624.92 46147625.04 0.0542 0.0270 *

Jupiter 121636-01-19 00:12 G 46147714.46 46147714.51 46147714.57 0.0540 0.0490

Mars 121637-11-02 13:09 G 46148367.89 46148368.05 46148368.20 0.1596 0.0047

Saturn 121639-11-23 08:07 G 46149118.73 46149118.84 46149118.96 0.0277 0.0179

Venus 121639-11-25 23:43 G 46149121.39 46149121.49 46149121.60 0.3727 0.0831

Saturn 121640-02-19 22:02 G 46149207.27 46149207.42 46149207.56 0.0277 0.0025

Saturn 121640-05-18 11:29 G 46149295.85 46149295.98 46149296.11 0.0277 0.0127

Saturn 121640-08-15 00:41 G 46149384.52 46149384.53 46149384.54 0.0277 0.0276

Jupiter 121641-12-01 05:29 G 46149857.62 46149857.73 46149857.85 0.0486 0.0338

Jupiter 121642-03-01 00:12 G 46149947.39 46149947.51 46149947.63 0.0488 0.0319

Moon 121644-04-30 01:38 G 46150738.53 46150738.57 46150738.61 0.2652 0.2517

Venus 121645-06-10 17:43 G 46151145.14 46151145.24 46151145.35 0.3723 0.1097

Mars 121647-03-25 17:57 G 46151798.13 46151798.25 46151798.37 0.1594 0.1010

Jupiter 121647-08-09 11:43 G 46151934.92 46151934.99 46151935.06 0.0542 0.0467

Jupiter 121647-11-07 02:21 G 46152024.49 46152024.60 46152024.72 0.0540 0.0305

Earth 121648-10-23 01:53 G 46152375.47 46152375.58 46152375.70 0.2679 0.0433

Moon 121648-10-23 02:50 G 46152375.50 46152375.62 46152375.74 0.2681 0.0524 *

Mars 121650-01-09 21:33 G 46152819.32 46152819.40 46152819.48 0.1939 0.1397

Venus 121650-12-25 11:29 G 46153168.92 46153168.98 46153169.05 0.3719 0.2921

Jupiter 121653-12-18 01:09 G 46154257.40 46154257.55 46154257.71 0.0487 0.0157

Saturn 121654-06-08 20:50 G 46154430.26 46154430.37 46154430.49 0.0282 0.0196

Saturn 121654-09-05 14:36 G 46154518.95 46154519.11 46154519.27 0.0282 0.0016

Saturn 121654-12-03 08:21 G 46154607.73 46154607.85 46154607.99 0.0282 0.0167

Venus 121658-01-21 15:48 G 46155753.04 46155753.16 46155753.27 0.3648 0.1823

Neptune 121658-07-14 14:36 G 46155927.06 46155927.11 46155927.16 0.0089 0.0084

Neptune 121658-10-10 17:00 G 46156015.14 46156015.21 46156015.30 0.0089 0.0076

Neptune 121659-01-06 19:38 G 46156103.22 46156103.32 46156103.43 0.0089 0.0068

Neptune 121659-04-04 22:17 G 46156191.31 46156191.43 46156191.56 0.0089 0.0060

Mars 121659-06-02 04:02 G 46156249.55 46156249.67 46156249.79 0.1944 0.0038

Neptune 121659-07-02 00:41 G 46156279.41 46156279.53 46156279.68 0.0089 0.0052

Jupiter 121659-08-26 03:33 G 46156334.52 46156334.65 46156334.79 0.0541 0.0101

Neptune 121659-09-28 03:19 G 46156367.50 46156367.64 46156367.80 0.0089 0.0044

Neptune 121659-12-25 06:12 G 46156455.61 46156455.76 46156455.92 0.0089 0.0036

Neptune 121660-03-22 08:50 G 46156543.71 46156543.87 46156544.03 0.0089 0.0027

Uranus 121660-06-16 03:19 G 46156629.57 46156629.64 46156629.72 0.0140 0.0122

Neptune 121660-06-18 11:29 G 46156631.82 46156631.98 46156632.15 0.0089 0.0019

Uranus 121660-09-12 09:05 G 46156717.76 46156717.88 46156717.99 0.0140 0.0099

Neptune 121660-09-14 14:07 G 46156719.92 46156720.09 46156720.26 0.0089 0.0011

Uranus 121660-12-09 14:36 G 46156805.98 46156806.11 46156806.25 0.0140 0.0076

Neptune 121660-12-11 16:45 G 46156808.03 46156808.20 46156808.38 0.0089 0.0003

Uranus 121661-03-07 20:21 G 46156894.20 46156894.35 46156894.50 0.0140 0.0053

Neptune 121661-03-09 19:38 G 46156896.15 46156896.32 46156896.49 0.0089 0.0006

Uranus 121661-06-04 02:07 G 46156982.43 46156982.59 46156982.75 0.0140 0.0029

Neptune 121661-06-05 22:17 G 46156984.26 46156984.43 46156984.60 0.0089 0.0015

Uranus 121661-08-31 07:53 G 46157070.66 46157070.83 46157071.00 0.0140 0.0006

Neptune 121661-09-02 00:55 G 46157072.38 46157072.54 46157072.71 0.0089 0.0023

Earth 121661-10-25 21:48 G 46157126.36 46157126.41 46157126.47 0.2677 0.2359

Moon 121661-10-25 22:17 G 46157126.38 46157126.43 46157126.47 0.2671 0.2451 *

Uranus 121661-11-27 13:38 G 46157158.91 46157159.07 46157159.24 0.0140 0.0018

Neptune 121661-11-29 03:33 G 46157160.50 46157160.65 46157160.82 0.0089 0.0032

Uranus 121662-02-23 19:38 G 46157247.16 46157247.32 46157247.48 0.0140 0.0042

Neptune 121662-02-25 06:26 G 46157248.62 46157248.77 46157248.93 0.0089 0.0040

Uranus 121662-05-23 01:24 G 46157335.41 46157335.56 46157335.71 0.0140 0.0066

Neptune 121662-05-24 09:05 G 46157336.74 46157336.88 46157337.03 0.0089 0.0049

Uranus 121662-08-19 07:24 G 46157423.68 46157423.81 46157423.94 0.0139 0.0090

Neptune 121662-08-20 11:57 G 46157424.87 46157425.00 46157425.13 0.0089 0.0058

Uranus 121662-11-15 13:09 G 46157511.96 46157512.05 46157512.16 0.0139 0.0114

Neptune 121662-11-16 14:36 G 46157513.00 46157513.11 46157513.23 0.0089 0.0066

Uranus 121663-02-11 19:09 G 46157600.29 46157600.30 46157600.33 0.0139 0.0139

Neptune 121663-02-12 17:14 G 46157601.14 46157601.22 46157601.33 0.0089 0.0075

Neptune 121663-05-11 20:21 G 46157689.29 46157689.35 46157689.41 0.0089 0.0084

Venus 121663-08-07 16:45 G 46157777.07 46157777.20 46157777.33 0.3652 0.1218

Moon 121664-04-25 06:26 G 46158038.68 46158038.77 46158038.87 0.2645 0.1951

Earth 121664-04-25 06:41 G 46158038.69 46158038.78 46158038.87 0.2652 0.1971 *

Jupiter 121665-10-06 02:21 G 46158567.43 46158567.60 46158567.76 0.0487 0.0006

Mars 121667-12-12 09:05 G 46159364.79 46159364.88 46159364.97 0.1599 0.1272

Mars 121668-10-22 10:17 G 46159679.85 46159679.93 46159680.00 0.1947 0.1504

Saturn 121669-04-11 11:00 G 46159850.87 46159850.96 46159851.06 0.0276 0.0210

Saturn 121669-07-09 00:41 G 46159939.39 46159939.53 46159939.68 0.0276 0.0057

Saturn 121669-10-05 14:21 G 46160027.96 46160028.10 46160028.24 0.0276 0.0096

Saturn 121670-01-02 03:33 G 46160116.59 46160116.65 46160116.72 0.0277 0.0245

Jupiter 121671-06-14 05:43 G 46160644.61 46160644.74 46160644.88 0.0542 0.0089

Moon 121677-04-28 06:26 G 46162789.63 46162789.77 46162789.90 0.2651 0.0353

Earth 121677-04-28 07:24 G 46162789.68 46162789.81 46162789.95 0.2654 0.0590 *

Mars 121677-05-03 13:38 G 46162794.91 46162795.07 46162795.22 0.1596 0.0201

Jupiter 121677-07-25 03:05 G 46162877.48 46162877.63 46162877.78 0.0486 0.0170

Earth 121681-10-21 11:00 G 46164426.86 46164426.96 46164427.07 0.2681 0.1147

Moon 121681-10-21 11:57 G 46164426.89 46164427.00 46164427.11 0.2679 0.0918 *

Jupiter 121683-04-02 08:21 G 46164954.73 46164954.85 46164954.97 0.0543 0.0271

Jupiter 121683-06-30 22:31 G 46165044.39 46165044.44 46165044.50 0.0540 0.0492

Saturn 121683-10-26 20:21 G 46165162.29 46165162.35 46165162.42 0.0282 0.0255

Saturn 121684-01-23 13:53 G 46165250.92 46165251.08 46165251.24 0.0282 0.0078

Saturn 121684-04-21 07:38 G 46165339.67 46165339.82 46165339.97 0.0282 0.0104

Mars 121686-09-23 18:12 G 46166225.13 46166225.26 46166225.39 0.1594 0.0856

Jupiter 121689-05-13 04:31 G 46167187.57 46167187.69 46167187.81 0.0486 0.0326

Mars 121689-07-10 21:33 G 46167246.33 46167246.40 46167246.47 0.1940 0.1555

Jupiter 121689-08-10 23:00 G 46167277.34 46167277.46 46167277.58 0.0488 0.0329

Venus 121690-12-17 03:48 G 46167770.57 46167770.66 46167770.75 0.3729 0.2144

Moon 121694-10-24 07:09 G 46169177.68 46169177.80 46169177.91 0.2673 0.0764

Earth 121694-10-24 07:09 G 46169177.69 46169177.80 46169177.91 0.2679 0.0844 *

Jupiter 121695-01-19 10:31 G 46169264.87 46169264.94 46169265.01 0.0543 0.0460

Jupiter 121695-04-19 01:09 G 46169354.44 46169354.55 46169354.67 0.0540 0.0315

Venus 121696-07-01 22:02 G 46169794.31 46169794.42 46169794.53 0.3726 0.0224

Saturn 121698-08-29 10:45 G 46170582.93 46170582.95 46170582.98 0.0276 0.0272

Saturn 121698-11-26 00:41 G 46170671.40 46170671.53 46170671.67 0.0277 0.0117

Mars 121698-12-01 04:17 G 46170676.56 46170676.68 46170676.80 0.1943 0.0153

Saturn 121699-02-22 14:21 G 46170759.96 46170760.10 46170760.25 0.0277 0.0036

Saturn 121699-05-22 03:48 G 46170848.55 46170848.66 46170848.77 0.0277 0.0186

Jupiter 121701-03-02 05:43 G 46171497.73 46171497.74 46171497.76 0.0486 0.0482

Jupiter 121701-05-30 23:57 G 46171587.34 46171587.50 46171587.65 0.0488 0.0165

Venus 121702-01-16 15:48 G 46171818.07 46171818.16 46171818.26 0.3722 0.1694

Uranus 121703-09-21 02:21 G 46172430.54 46172430.60 46172430.67 0.0138 0.0122

Uranus 121703-12-18 06:41 G 46172518.69 46172518.78 46172518.89 0.0138 0.0101

Uranus 121704-03-15 11:14 G 46172606.85 46172606.97 46172607.09 0.0138 0.0080

Uranus 121704-06-11 15:33 G 46172695.02 46172695.15 46172695.29 0.0138 0.0060

Uranus 121704-09-07 19:53 G 46172783.19 46172783.33 46172783.48 0.0138 0.0040

Uranus 121704-12-05 00:12 G 46172871.37 46172871.51 46172871.66 0.0138 0.0019

Uranus 121705-03-03 04:31 G 46172959.54 46172959.69 46172959.84 0.0138 0.0002

Uranus 121705-05-30 08:50 G 46173047.72 46173047.87 46173048.01 0.0138 0.0022

Uranus 121705-08-26 13:09 G 46173135.91 46173136.05 46173136.19 0.0138 0.0042

Uranus 121705-11-22 17:14 G 46173224.09 46173224.22 46173224.35 0.0138 0.0062

Uranus 121706-02-18 21:19 G 46173312.28 46173312.39 46173312.51 0.0139 0.0082

Uranus 121706-05-18 01:24 G 46173400.47 46173400.56 46173400.67 0.0139 0.0102

Uranus 121706-08-14 05:29 G 46173488.67 46173488.73 46173488.81 0.0139 0.0122

Jupiter 121707-02-06 03:19 G 46173664.51 46173664.64 46173664.78 0.0541 0.0128

Mars 121707-06-13 09:33 G 46173791.83 46173791.90 46173791.96 0.1599 0.1441

Venus 121707-08-02 09:33 G 46173841.86 46173841.90 46173841.93 0.3718 0.3492

Mars 121708-04-23 10:17 G 46174106.85 46174106.93 46174107.02 0.1947 0.1340

Moon 121710-04-27 11:14 G 46174840.86 46174840.97 46174841.08 0.2654 0.1554

Earth 121710-04-27 12:26 G 46174840.91 46174841.02 46174841.14 0.2652 0.1458 *

Jupiter 121713-03-19 01:09 G 46175897.38 46175897.55 46175897.71 0.0487 0.0007

Saturn 121713-06-12 13:24 G 46175982.92 46175983.06 46175983.21 0.0282 0.0137

Saturn 121713-09-09 07:09 G 46176071.64 46176071.80 46176071.97 0.0282 0.0045

Saturn 121713-12-07 01:24 G 46176160.46 46176160.56 46176160.65 0.0282 0.0228

Venus 121714-08-29 15:33 G 46176426.02 46176426.15 46176426.29 0.3649 0.0889

Mars 121716-11-02 14:07 G 46177221.93 46177222.09 46177222.24 0.1596 0.0366

Jupiter 121718-11-25 04:31 G 46177974.55 46177974.69 46177974.82 0.0542 0.0086

Venus 121720-03-14 16:45 G 46178450.09 46178450.20 46178450.31 0.3653 0.2201

Earth 121723-04-30 13:09 G 46179591.92 46179592.05 46179592.18 0.2654 0.1113

Moon 121723-04-30 13:24 G 46179591.93 46179592.06 46179592.18 0.2661 0.1059 *

Jupiter 121725-01-05 02:21 G 46180207.45 46180207.60 46180207.75 0.0486 0.0153

Mars 121726-03-25 18:55 G 46180652.15 46180652.29 46180652.43 0.1594 0.0685

Moon 121727-10-23 15:33 G 46181229.04 46181229.15 46181229.27 0.2676 0.0788

Earth 121727-10-23 16:17 G 46181229.06 46181229.18 46181229.29 0.2681 0.0721 *

Saturn 121728-04-15 03:33 G 46181403.53 46181403.65 46181403.78 0.0276 0.0147

Saturn 121728-07-12 17:29 G 46181492.08 46181492.23 46181492.37 0.0276 0.0010

Saturn 121728-10-09 06:41 G 46181580.67 46181580.78 46181580.91 0.0276 0.0158

Mars 121729-01-09 21:48 G 46181673.35 46181673.41 46181673.46 0.1939 0.1718

Jupiter 121730-09-13 06:26 G 46182284.65 46182284.77 46182284.89 0.0542 0.0277

Jupiter 121730-12-11 20:36 G 46182374.31 46182374.36 46182374.42 0.0540 0.0486

Jupiter 121736-10-24 03:05 G 46184517.51 46184517.63 46184517.76 0.0486 0.0318

Jupiter 121737-01-21 21:33 G 46184607.29 46184607.40 46184607.52 0.0488 0.0338

Mars 121738-06-02 04:02 G 46185103.55 46185103.67 46185103.79 0.1943 0.0288

Neptune 121739-05-15 12:41 G 46185450.99 46185451.03 46185451.09 0.0088 0.0082

Neptune 121739-08-11 14:21 G 46185539.04 46185539.10 46185539.19 0.0088 0.0076

Neptune 121739-11-07 16:31 G 46185627.10 46185627.19 46185627.29 0.0088 0.0068

Neptune 121740-02-03 18:12 G 46185715.16 46185715.26 46185715.38 0.0088 0.0061

Neptune 121740-05-01 20:07 G 46185803.23 46185803.34 46185803.46 0.0088 0.0053

Neptune 121740-07-28 21:48 G 46185891.29 46185891.41 46185891.55 0.0088 0.0046

Neptune 121740-10-24 23:43 G 46185979.36 46185979.49 46185979.63 0.0088 0.0039

Moon 121740-10-25 11:29 G 46185979.87 46185979.98 46185980.09 0.2681 0.1095

Earth 121740-10-25 12:12 G 46185979.91 46185980.01 46185980.12 0.2679 0.1255 *

Neptune 121741-01-21 01:24 G 46186067.43 46186067.56 46186067.71 0.0088 0.0032

Neptune 121741-04-19 03:19 G 46186155.50 46186155.64 46186155.78 0.0088 0.0025

Neptune 121741-07-16 05:14 G 46186243.57 46186243.72 46186243.86 0.0088 0.0018

Neptune 121741-10-12 06:55 G 46186331.64 46186331.79 46186331.94 0.0088 0.0011

Neptune 121742-01-08 08:36 G 46186419.72 46186419.86 46186420.01 0.0088 0.0004

Venus 121742-01-08 07:38 G 46186419.79 46186419.82 46186419.86 0.3732 0.3508 *

Neptune 121742-04-06 10:17 G 46186507.79 46186507.93 46186508.08 0.0088 0.0005

Jupiter 121742-07-02 08:36 G 46186594.79 46186594.86 46186594.94 0.0543 0.0464

Neptune 121742-07-03 12:12 G 46186595.86 46186596.01 46186596.15 0.0088 0.0011

Neptune 121742-09-29 13:53 G 46186683.94 46186684.08 46186684.22 0.0088 0.0018

Jupiter 121742-09-29 23:29 G 46186684.37 46186684.48 46186684.60 0.0541 0.0313

Saturn 121742-10-30 13:24 G 46186714.94 46186715.06 46186715.18 0.0282 0.0191

Neptune 121742-12-26 15:33 G 46186772.01 46186772.15 46186772.29 0.0088 0.0024

Saturn 121743-01-27 06:55 G 46186803.63 46186803.79 46186803.96 0.0282 0.0013

Neptune 121743-03-24 17:14 G 46186860.09 46186860.22 46186860.36 0.0088 0.0031

Saturn 121743-04-26 00:55 G 46186892.41 46186892.54 46186892.67 0.0282 0.0170

Neptune 121743-06-20 18:55 G 46186948.16 46186948.29 46186948.42 0.0088 0.0038

Neptune 121743-09-16 20:36 G 46187036.24 46187036.36 46187036.49 0.0088 0.0045

Neptune 121743-12-13 22:17 G 46187124.32 46187124.43 46187124.55 0.0088 0.0052

Neptune 121744-03-10 23:43 G 46187212.40 46187212.49 46187212.61 0.0088 0.0059

Uranus 121744-04-10 05:29 G 46187242.70 46187242.73 46187242.75 0.0140 0.0138

Neptune 121744-06-07 01:38 G 46187300.48 46187300.57 46187300.67 0.0088 0.0066

Uranus 121744-07-07 10:45 G 46187330.87 46187330.95 46187331.05 0.0140 0.0115

Neptune 121744-09-03 03:19 G 46187388.56 46187388.64 46187388.72 0.0088 0.0072

Uranus 121744-10-03 16:31 G 46187419.07 46187419.19 46187419.32 0.0140 0.0092

Neptune 121744-11-30 04:45 G 46187476.65 46187476.70 46187476.77 0.0088 0.0079

Uranus 121744-12-30 22:02 G 46187507.29 46187507.42 46187507.57 0.0140 0.0069

Neptune 121745-02-26 06:26 G 46187564.75 46187564.77 46187564.81 0.0088 0.0086

Uranus 121745-03-29 04:02 G 46187595.51 46187595.67 46187595.83 0.0140 0.0045

Uranus 121745-06-25 09:48 G 46187683.74 46187683.91 46187684.07 0.0140 0.0022

Uranus 121745-09-21 15:33 G 46187771.98 46187772.15 46187772.32 0.0140 0.0002

Uranus 121745-12-18 21:19 G 46187860.23 46187860.39 46187860.56 0.0140 0.0026

Uranus 121746-03-17 03:05 G 46187948.48 46187948.63 46187948.79 0.0140 0.0050

Uranus 121746-06-13 09:05 G 46188036.74 46188036.88 46188037.03 0.0139 0.0074

Uranus 121746-09-09 14:50 G 46188125.01 46188125.12 46188125.25 0.0139 0.0098

Uranus 121746-12-06 20:50 G 46188213.30 46188213.37 46188213.46 0.0139 0.0122

Venus 121747-07-25 01:53 G 46188443.48 46188443.58 46188443.68 0.3728 0.1516

Mars 121747-10-23 10:31 G 46188533.84 46188533.94 46188534.04 0.1947 0.1165

Jupiter 121748-08-12 04:45 G 46188827.66 46188827.70 46188827.73 0.0486 0.0471

Jupiter 121748-11-09 22:31 G 46188917.29 46188917.44 46188917.60 0.0487 0.0174

Venus 121753-02-06 20:07 G 46190467.23 46190467.34 46190467.45 0.3725 0.0436

Jupiter 121754-07-19 02:07 G 46190994.45 46190994.59 46190994.72 0.0541 0.0133

Earth 121756-04-27 18:12 G 46191643.13 46191643.26 46191643.39 0.2652 0.0951

Moon 121756-04-27 19:09 G 46191643.17 46191643.30 46191643.43 0.2656 0.0765 *

Mars 121756-05-03 14:21 G 46191648.95 46191649.10 46191649.25 0.1596 0.0527

Saturn 121757-09-02 03:33 G 46192135.55 46192135.65 46192135.75 0.0276 0.0208

Saturn 121757-11-29 17:29 G 46192224.08 46192224.23 46192224.37 0.0276 0.0054

Saturn 121758-02-26 06:55 G 46192312.66 46192312.79 46192312.93 0.0277 0.0098

Saturn 121758-05-25 20:07 G 46192401.29 46192401.34 46192401.41 0.0277 0.0248

Venus 121758-08-23 13:53 G 46192490.99 46192491.08 46192491.16 0.3721 0.2279

Jupiter 121760-08-28 23:29 G 46193227.32 46193227.48 46193227.65 0.0487 0.0017

Moon 121760-10-21 00:26 G 46193280.47 46193280.52 46193280.57 0.2681 0.2422

Earth 121760-10-21 01:09 G 46193280.49 46193280.55 46193280.61 0.2683 0.2325 *

Venus 121765-09-19 15:05 G 46195075.05 46195075.13 46195075.21 0.3646 0.2877

Mars 121765-09-23 19:09 G 46195079.16 46195079.30 46195079.45 0.1594 0.0524

Jupiter 121766-05-07 04:02 G 46195304.53 46195304.67 46195304.81 0.0542 0.0059

Mars 121768-07-10 21:48 G 46196100.38 46196100.41 46196100.43 0.1939 0.1866

Earth 121769-04-30 18:55 G 46196394.18 46196394.29 46196394.40 0.2655 0.1640

Moon 121769-04-30 20:07 G 46196394.23 46196394.34 46196394.44 0.2652 0.1804 *

Venus 121771-04-05 15:33 G 46197099.02 46197099.15 46197099.29 0.3650 0.0093

Saturn 121772-03-18 12:55 G 46197446.97 46197447.04 46197447.12 0.0282 0.0250

Saturn 121772-06-15 06:26 G 46197535.61 46197535.77 46197535.93 0.0282 0.0073

Jupiter 121772-06-17 00:55 G 46197537.39 46197537.54 46197537.70 0.0487 0.0145

Saturn 121772-09-12 00:12 G 46197624.36 46197624.51 46197624.66 0.0282 0.0109

Moon 121773-10-23 21:05 G 46198031.26 46198031.38 46198031.50 0.2687 0.0413

Earth 121773-10-23 21:19 G 46198031.27 46198031.39 46198031.51 0.2681 0.0311 *

Mars 121775-02-14 00:26 G 46198509.48 46198509.52 46198509.55 0.1591 0.1544

Venus 121776-10-19 16:45 G 46199123.14 46199123.20 46199123.27 0.3654 0.3221

Mars 121777-12-01 04:17 G 46199530.56 46199530.68 46199530.80 0.1943 0.0458

Jupiter 121778-02-23 04:45 G 46199614.58 46199614.70 46199614.83 0.0542 0.0274

Jupiter 121778-05-23 19:09 G 46199704.25 46199704.30 46199704.36 0.0540 0.0489

Pluto 121779-12-22 17:29 G 46200282.20 46200282.23 46200282.29 0.0058 0.0057

Pluto 121780-03-19 18:41 G 46200370.19 46200370.28 46200370.41 0.0059 0.0049

Pluto 121780-06-15 19:53 G 46200458.21 46200458.33 46200458.49 0.0059 0.0041

Pluto 121780-09-11 21:19 G 46200546.24 46200546.39 46200546.57 0.0059 0.0033

Pluto 121780-12-08 23:00 G 46200634.28 46200634.46 46200634.64 0.0059 0.0024

Pluto 121781-03-07 00:12 G 46200722.33 46200722.51 46200722.71 0.0059 0.0016

Pluto 121781-06-03 01:38 G 46200810.38 46200810.57 46200810.77 0.0059 0.0008

Pluto 121781-08-30 03:05 G 46200898.43 46200898.63 46200898.82 0.0059 0.0001

Pluto 121781-11-26 04:17 G 46200986.49 46200986.68 46200986.88 0.0059 0.0009

Pluto 121782-02-22 05:43 G 46201074.55 46201074.74 46201074.93 0.0059 0.0017

Pluto 121782-05-21 06:41 G 46201162.62 46201162.78 46201162.97 0.0059 0.0026

Pluto 121782-08-17 08:07 G 46201250.69 46201250.84 46201251.01 0.0059 0.0034

Pluto 121782-11-13 09:05 G 46201338.77 46201338.88 46201339.04 0.0059 0.0043

Pluto 121783-02-09 10:31 G 46201426.87 46201426.94 46201427.06 0.0059 0.0052

Jupiter 121784-04-05 02:21 G 46201847.47 46201847.60 46201847.73 0.0486 0.0302

Jupiter 121784-07-03 20:50 G 46201937.26 46201937.37 46201937.48 0.0488 0.0355

Earth 121786-10-26 17:29 G 46202782.13 46202782.23 46202782.32 0.2678 0.1660

Moon 121786-10-26 18:12 G 46202782.17 46202782.26 46202782.34 0.2682 0.1809 *

Saturn 121787-01-20 06:41 G 46202867.70 46202867.78 46202867.85 0.0276 0.0237

Saturn 121787-04-18 20:21 G 46202956.21 46202956.35 46202956.50 0.0276 0.0082

Mars 121787-04-23 10:31 G 46202960.84 46202960.94 46202961.04 0.1947 0.1018

Uranus 121787-07-15 05:29 G 46203043.71 46203043.73 46203043.75 0.0138 0.0136

Saturn 121787-07-16 10:02 G 46203044.78 46203044.92 46203045.06 0.0277 0.0071

Uranus 121787-10-11 09:33 G 46203131.83 46203131.90 46203131.99 0.0138 0.0116

Saturn 121787-10-12 23:29 G 46203133.39 46203133.48 46203133.57 0.0277 0.0220

Uranus 121788-01-07 14:07 G 46203219.99 46203220.09 46203220.21 0.0138 0.0095

Uranus 121788-04-04 18:41 G 46203308.15 46203308.28 46203308.41 0.0138 0.0074

Uranus 121788-07-01 23:00 G 46203396.32 46203396.46 46203396.60 0.0138 0.0054

Uranus 121788-09-28 03:19 G 46203484.50 46203484.64 46203484.79 0.0138 0.0033

Uranus 121788-12-25 07:38 G 46203572.67 46203572.82 46203572.97 0.0138 0.0013

Uranus 121789-03-23 11:57 G 46203660.85 46203661.00 46203661.15 0.0138 0.0008

Uranus 121789-06-19 16:02 G 46203749.03 46203749.17 46203749.32 0.0138 0.0028

Uranus 121789-09-15 20:21 G 46203837.21 46203837.35 46203837.49 0.0138 0.0048

Jupiter 121789-12-12 06:26 G 46203924.71 46203924.77 46203924.84 0.0543 0.0472

Uranus 121789-12-13 00:26 G 46203925.40 46203925.52 46203925.65 0.0138 0.0068

Uranus 121790-03-11 04:45 G 46204013.59 46204013.70 46204013.81 0.0138 0.0088

Jupiter 121790-03-11 21:33 G 46204014.28 46204014.40 46204014.51 0.0541 0.0305

Uranus 121790-06-07 08:50 G 46204101.79 46204101.87 46204101.97 0.0139 0.0108

Uranus 121790-09-03 12:55 G 46204189.99 46204190.04 46204190.10 0.0139 0.0128

Mars 121795-11-02 14:50 G 46206075.98 46206076.12 46206076.26 0.1596 0.0695

Jupiter 121796-01-23 03:19 G 46206157.60 46206157.64 46206157.68 0.0486 0.0464

Jupiter 121796-04-21 21:05 G 46206247.23 46206247.38 46206247.54 0.0487 0.0181

Venus 121798-08-15 05:43 G 46207092.67 46207092.74 46207092.81 0.3731 0.2870

Saturn 121801-11-03 06:41 G 46208267.64 46208267.78 46208267.93 0.0282 0.0124

Jupiter 121801-12-30 00:12 G 46208324.37 46208324.51 46208324.64 0.0542 0.0127

Saturn 121802-01-31 00:26 G 46208356.36 46208356.52 46208356.68 0.0282 0.0057

Saturn 121802-04-29 18:26 G 46208445.19 46208445.27 46208445.36 0.0282 0.0241

Earth 121802-04-29 23:57 G 46208445.36 46208445.50 46208445.64 0.2653 0.0423 *

Moon 121802-04-30 00:26 G 46208445.38 46208445.52 46208445.66 0.2647 0.0405 *

Venus 121804-03-01 00:12 G 46209116.40 46209116.51 46209116.61 0.3727 0.0889

Mars 121805-03-25 19:38 G 46209506.17 46209506.32 46209506.47 0.1594 0.0363

Earth 121806-10-23 06:26 G 46210082.68 46210082.77 46210082.85 0.2682 0.1893

Moon 121806-10-23 06:41 G 46210082.69 46210082.78 46210082.87 0.2689 0.1774 *

Jupiter 121808-02-09 22:17 G 46210557.26 46210557.43 46210557.59 0.0487 0.0019

Venus 121809-09-14 18:12 G 46211140.15 46211140.26 46211140.36 0.3724 0.1041

Jupiter 121813-10-18 02:36 G 46212634.47 46212634.61 46212634.75 0.0542 0.0056

Mars 121814-08-16 00:41 G 46212936.46 46212936.53 46212936.60 0.1592 0.1388

Venus 121815-03-31 11:57 G 46213163.93 46213164.00 46213164.06 0.3720 0.2873

Moon 121815-05-02 23:29 G 46213196.40 46213196.48 46213196.57 0.2651 0.2062

Earth 121815-05-03 00:41 G 46213196.45 46213196.53 46213196.61 0.2655 0.2175 *

Saturn 121816-09-05 20:36 G 46213688.24 46213688.36 46213688.49 0.0276 0.0140

Saturn 121816-12-03 10:17 G 46213776.79 46213776.93 46213777.08 0.0276 0.0016

Saturn 121817-03-01 23:43 G 46213865.38 46213865.49 46213865.61 0.0277 0.0164

Mars 121817-06-02 04:17 G 46213957.57 46213957.68 46213957.80 0.1943 0.0619

Earth 121819-10-26 02:36 G 46214833.49 46214833.61 46214833.73 0.2680 0.0124

Moon 121819-10-26 03:19 G 46214833.52 46214833.64 46214833.76 0.2680 0.0199 *

Jupiter 121819-11-28 23:14 G 46214867.32 46214867.47 46214867.63 0.0487 0.0143

Venus 121822-04-27 14:50 G 46215748.01 46215748.12 46215748.23 0.3647 0.1953

Neptune 121823-04-12 13:09 G 46216097.99 46216098.05 46216098.12 0.0089 0.0081

Neptune 121823-07-09 15:33 G 46216186.07 46216186.15 46216186.25 0.0089 0.0073

Neptune 121823-10-05 18:12 G 46216274.15 46216274.26 46216274.38 0.0089 0.0065

Neptune 121824-01-01 20:36 G 46216362.25 46216362.36 46216362.50 0.0089 0.0057

Neptune 121824-03-29 23:14 G 46216450.34 46216450.47 46216450.62 0.0089 0.0049

Neptune 121824-06-26 01:53 G 46216538.44 46216538.58 46216538.74 0.0089 0.0041

Neptune 121824-09-22 04:45 G 46216626.54 46216626.70 46216626.86 0.0089 0.0032

Neptune 121824-12-19 07:24 G 46216714.65 46216714.81 46216714.97 0.0089 0.0024

Neptune 121825-03-17 10:02 G 46216802.75 46216802.92 46216803.09 0.0089 0.0016

Neptune 121825-06-13 12:41 G 46216890.86 46216891.03 46216891.20 0.0089 0.0007

Jupiter 121825-08-06 04:31 G 46216944.57 46216944.69 46216944.82 0.0542 0.0249

Neptune 121825-09-09 15:19 G 46216978.97 46216979.14 46216979.31 0.0089 0.0002

Jupiter 121825-11-03 18:55 G 46217034.25 46217034.29 46217034.33 0.0540 0.0512

Neptune 121825-12-06 17:57 G 46217067.08 46217067.25 46217067.42 0.0089 0.0010

Neptune 121826-03-04 20:36 G 46217155.20 46217155.36 46217155.53 0.0089 0.0018

Neptune 121826-05-31 23:29 G 46217243.31 46217243.48 46217243.64 0.0089 0.0026

Neptune 121826-08-28 01:53 G 46217331.43 46217331.58 46217331.75 0.0089 0.0035

Mars 121826-10-23 10:31 G 46217387.84 46217387.94 46217388.05 0.1947 0.0856

Neptune 121826-11-24 04:45 G 46217419.56 46217419.70 46217419.86 0.0089 0.0043

Neptune 121827-02-20 07:24 G 46217507.68   46217507.81   46217507.96 0.0089 0.0052

Neptune 121827-05-19 10:17 G 46217595.81   46217595.93   46217596.06 0.0089 0.0061

Neptune 121827-08-15 12:55 G 46217683.94   46217684.04   46217684.16 0.0089 0.0069

Venus   121827-11-11 15:33 G 46217772.02   46217772.15   46217772.28 0.3651 0.1053

Neptune 121827-11-11 15:33 G 46217772.08   46217772.15   46217772.25 0.0089 0.0078 *

Neptune 121828-02-07 18:41 G 46217860.24   46217860.28   46217860.32 0.0089 0.0086

Uranus   121828-05-01 12:41 G 46217943.99   46217944.03   46217944.10 0.0140 0.0131

Uranus   121828-07-28 18:26 G 46218032.17   46218032.27   46218032.38 0.0140 0.0107

Uranus   121828-10-25 00:12 G 46218120.38   46218120.51   46218120.64 0.0140 0.0084

Uranus   121829-01-21 05:43 G 46218208.60   46218208.74   46218208.90 0.0140 0.0061

Uranus   121829-04-19 11:29 G 46218296.82   46218296.98   46218297.15 0.0140 0.0037

Uranus   121829-07-16 17:14 G 46218385.06   46218385.22   46218385.39 0.0140 0.0014

Uranus   121829-10-12 23:00 G 46218473.30   46218473.46   46218473.63 0.0140 0.0011

Uranus   121830-01-09 05:00 G 46218561.55   46218561.71   46218561.87 0.0140 0.0034

Uranus   121830-04-07 10:45 G 46218649.80   46218649.95   46218650.11 0.0140 0.0058

Uranus   121830-07-04 16:45 G 46218738.06   46218738.20   46218738.34 0.0139 0.0082

Uranus   121830-09-30 22:31 G 46218826.34   46218826.44   46218826.56 0.0139 0.0106

Uranus   121830-12-28 04:31 G 46218914.64   46218914.69   46218914.76 0.0139 0.0130

Saturn   121831-03-23 06:12 G 46218999.64   46218999.76   46218999.89 0.0282 0.0184

Saturn   121831-06-19 23:57 G 46219088.33   46219088.50   46219088.66 0.0282 0.0009

Saturn   121831-09-16 17:43 G 46219177.12   46219177.24   46219177.37 0.0282 0.0178

Jupiter 121831-09-17 00:55 G 46219177.41   46219177.54   46219177.67 0.0486 0.0295

Jupiter 121831-12-15 19:24 G 46219267.20   46219267.31   46219267.42 0.0488 0.0362

Earth   121832-10-27 22:31 G 46219584.36   46219584.44   46219584.51 0.2678 0.2063

Moon   121832-10-27 22:45 G 46219584.38   46219584.45   46219584.52 0.2672 0.2181 *

Moon   121835-04-28 04:45 G 46220496.64   46220496.70   46220496.76 0.2644 0.2378

Earth   121835-04-28 05:14 G 46220496.67   46220496.72   46220496.77 0.2651 0.2414 *

Mars   121835-05-04 15:19 G 46220503.01   46220503.14   46220503.27 0.1597 0.0866

Jupiter 121837-05-25 05:00 G 46221254.65   46221254.71   46221254.79 0.0543 0.0469

Jupiter 121837-08-22 20:07 G 46221344.22   46221344.34   46221344.45 0.0541 0.0308

Jupiter 121843-07-06 02:21 G 46223487.54 46223487.60 46223487.66 0.0486 0.0450

Jupiter 121843-10-03 20:21 G 46223577.20 46223577.35 46223577.50 0.0487 0.0196

Mars 121844-09-23 20:07 G 46223933.19 46223933.34 46223933.50 0.1594 0.0194

Saturn 121846-01-23 23:43 G 46224420.37 46224420.49 46224420.60 0.0277 0.0169

Saturn 121846-04-22 13:24 G 46224508.91 46224509.06 46224509.21 0.0277 0.0015

Saturn 121846-07-20 02:50 G 46224597.50 46224597.62 46224597.75 0.0277 0.0137

Moon 121848-04-30 04:31 G 46225247.55 46225247.69 46225247.83 0.2654 0.0172

Earth 121848-04-30 05:43 G 46225247.60 46225247.74 46225247.88 0.2653 0.0110 *

Jupiter 121849-06-10 22:02 G 46225654.29 46225654.42 46225654.56 0.0541 0.0119

Earth 121852-10-23 11:29 G 46226884.88 46226884.98 46226885.08 0.2682 0.1471

Moon 121852-10-23 12:12 G 46226884.91 46226885.01 46226885.12 0.2679 0.1318 *

Mars 121854-02-14 01:09 G 46227363.45 46227363.55 46227363.64 0.1592 0.1232

Venus 121855-03-23 04:02 G 46227765.58 46227765.67 46227765.76 0.3730 0.2217

Jupiter 121855-07-22 20:50 G 46227887.20 46227887.37 46227887.53 0.0487 0.0027

Mars 121856-12-01 04:17 G 46228384.57 46228384.68 46228384.79 0.1943 0.0770

Saturn 121860-08-09 07:24 G 46229731.72 46229731.81 46229731.91 0.0282 0.0226

Venus 121860-10-05 22:17 G 46229789.32 46229789.43 46229789.54 0.3726 0.0266

Saturn 121860-11-06 00:55 G 46229820.38 46229820.54 46229820.70 0.0282 0.0048

Saturn 121861-02-02 18:41 G 46229909.14 46229909.28 46229909.43 0.0282 0.0133

Jupiter 121861-03-30 00:26 G 46229964.38 46229964.52 46229964.66 0.0542 0.0067

Moon 121865-10-26 07:24 G 46231635.69 46231635.81 46231635.93 0.2673 0.0443

Earth 121865-10-26 07:38 G 46231635.71 46231635.82 46231635.94 0.2680 0.0548 *

Venus 121866-04-21 16:02 G 46231813.08 46231813.17 46231813.27 0.3723 0.1645

Mars 121866-04-23 10:45 G 46231814.84 46231814.95 46231815.07 0.1947 0.0676

Jupiter 121867-05-10 21:48 G 46232197.26 46232197.41 46232197.57 0.0486 0.0137

Uranus 121871-08-05 12:26 G 46233744.98 46233745.02 46233745.07 0.0138 0.0131

Uranus 121871-11-01 17:00 G 46233833.12 46233833.21 46233833.30 0.0138 0.0110

Venus 121871-11-05 09:48 G 46233836.88 46233836.91 46233836.95 0.3719 0.3462

Uranus 121872-01-28 21:05 G 46233921.28 46233921.38 46233921.51 0.0138 0.0090

Uranus 121872-04-26 01:38 G 46234009.45 46234009.57 46234009.71 0.0138 0.0069

Uranus 121872-07-23 06:12 G 46234097.62 46234097.76 46234097.90 0.0138 0.0048

Uranus 121872-10-19 10:31 G 46234185.79 46234185.94 46234186.08 0.0138 0.0028

Uranus 121873-01-15 14:50 G 46234273.97 46234274.12 46234274.27 0.0138 0.0008

Jupiter 121873-01-16 02:50 G 46234274.50 46234274.62 46234274.75 0.0542 0.0250

Uranus 121873-04-13 19:09 G 46234362.15 46234362.30 46234362.44 0.0138 0.0013

Jupiter 121873-04-15 17:14 G 46234364.18 46234364.22 46234364.26 0.0540 0.0512

Uranus 121873-07-10 23:14 G 46234450.33 46234450.47 46234450.62 0.0138 0.0033

Uranus 121873-10-07 03:33 G 46234538.51 46234538.65 46234538.79 0.0138 0.0053

Uranus 121874-01-03 07:38 G 46234626.70 46234626.82 46234626.95 0.0138 0.0073

Uranus 121874-04-01 11:43 G 46234714.89 46234714.99 46234715.11 0.0138 0.0093

Uranus 121874-06-28 16:02 G 46234803.09 46234803.17 46234803.26 0.0139 0.0113

Uranus 121874-09-24 20:07 G 46234891.31 46234891.34 46234891.38 0.0139 0.0133

Mars 121874-11-02 15:48 G 46234930.04 46234930.16 46234930.28 0.1597 0.1031

Saturn 121875-06-12 23:57 G 46235152.42 46235152.50 46235152.59 0.0276 0.0225

Saturn 121875-09-09 13:53 G 46235240.94 46235241.08 46235241.22 0.0276 0.0070

Saturn 121875-12-07 03:33 G 46235329.51 46235329.65 46235329.79 0.0277 0.0082

Saturn 121876-03-04 16:45 G 46235418.13 46235418.20 46235418.29 0.0277 0.0232

Pluto 121877-11-20 14:21 G 46236044.05 46236044.10 46236044.17 0.0085 0.0075

Pluto 121878-02-16 15:33 G 46236132.06 46236132.15 46236132.26 0.0085 0.0058

Pluto 121878-05-15 16:45 G 46236220.10 46236220.20 46236220.33 0.0085 0.0042

Pluto 121878-08-11 18:12 G 46236308.14 46236308.26 46236308.39 0.0085 0.0024

Moon 121878-10-29 02:50 G 46236386.57 46236386.62 46236386.67 0.2679 0.2389

Earth 121878-10-29 03:33 G 46236386.61 46236386.65 46236386.70 0.2678 0.2478 *

Pluto 121878-11-07 19:38 G 46236396.18 46236396.32 46236396.45 0.0085 0.0007

Venus 121878-12-02 14:50 G 46236420.99 46236421.12 46236421.25 0.3648 0.1014

Pluto 121879-02-03 20:50 G 46236484.24 46236484.37 46236484.50 0.0085 0.0010

Jupiter 121879-02-26 23:00 G 46236507.34 46236507.46 46236507.59 0.0486 0.0295

Pluto 121879-05-02 22:02 G 46236572.29 46236572.42 46236572.54 0.0085 0.0027

Jupiter 121879-05-27 17:29 G 46236597.12 46236597.23 46236597.34 0.0488 0.0361

Pluto 121879-07-29 23:00 G 46236660.36 46236660.46 46236660.58 0.0085 0.0044

Pluto 121879-10-26 00:26 G 46236748.43 46236748.52 46236748.61 0.0084 0.0060

Pluto 121880-01-22 01:24 G 46236836.52 46236836.56 46236836.62 0.0084 0.0077

Moon 121881-04-28 10:02 G 46237298.84 46237298.92 46237299.01 0.2656 0.1995

Earth 121881-04-28 11:00 G 46237298.86 46237298.96 46237299.05 0.2651 0.1908 *

Mars 121884-03-24 20:36 G 46238360.20 46238360.36 46238360.52 0.1594 0.0031

Venus 121884-06-17 15:48 G 46238445.05 46238445.16 46238445.27 0.3652 0.2052

Jupiter 121884-11-04 04:31 G 46238584.62 46238584.69 46238584.77 0.0543 0.0447

Jupiter 121885-02-01 19:24 G 46238674.21 46238674.31 46238674.42 0.0541 0.0329

Saturn 121890-03-26 00:12 G 46240552.36 46240552.51 46240552.66 0.0282 0.0111

Saturn 121890-06-22 17:43 G 46240641.09 46240641.24 46240641.40 0.0282 0.0069

Saturn 121890-09-19 11:43 G 46240729.92 46240729.99 46240730.07 0.0282 0.0252

Jupiter 121890-12-16 00:41 G 46240817.47 46240817.53 46240817.59 0.0486 0.0446

Jupiter 121891-03-15 18:41 G 46240907.13 46240907.28 46240907.43 0.0487 0.0200

Mars 121893-08-15 01:38 G 46241790.45 46241790.57 46241790.68 0.1592 0.1064

Earth 121894-05-01 11:29 G 46242049.84 46242049.98 46242050.11 0.2653 0.0626

Moon 121894-05-01 11:57 G 46242049.86 46242050.00 46242050.13 0.2660 0.0669 *

Mars 121896-06-01 04:31 G 46242811.58 46242811.69 46242811.79 0.1943 0.0934

Jupiter 121896-11-20 20:36 G 46242984.22 46242984.36 46242984.50 0.0541 0.0121

Moon 121898-10-24 16:02 G 46243687.06 46243687.17 46243687.27 0.2679 0.1207

Earth 121898-10-24 16:45 G 46243687.09 46243687.20 46243687.31 0.2682 0.1040 *

Jupiter 121903-01-02 19:38 G 46245217.16 46245217.32 46245217.48 0.0487 0.0037

Neptune 121903-11-15 10:02 G 46245533.90 46245533.92 46245533.96 0.0088 0.0087

Neptune 121904-02-11 11:43 G 46245621.94 46245621.99 46245622.07 0.0088 0.0080

Neptune 121904-05-09 13:38 G 46245710.00 46245710.07 46245710.17 0.0088 0.0072

Neptune 121904-08-05 15:48 G 46245798.06 46245798.16 46245798.26 0.0088 0.0065

Saturn 121904-10-31 02:50 G 46245884.57 46245884.62 46245884.69 0.0277 0.0254

Neptune 121904-11-01 17:29 G 46245886.12 46245886.23 46245886.35 0.0088 0.0058

Saturn 121905-01-27 17:00 G 46245973.07 46245973.21 46245973.35 0.0277 0.0098

Neptune 121905-01-28 19:09 G 46245974.19 46245974.30 46245974.43 0.0088 0.0051

Saturn 121905-04-26 06:41 G 46246061.64 46246061.78 46246061.93 0.0277 0.0055

Neptune 121905-04-26 21:05 G 46246062.26 46246062.38 46246062.52 0.0088 0.0043

Saturn 121905-07-23 20:07 G 46246150.25 46246150.34 46246150.44 0.0277 0.0206

Neptune 121905-07-23 22:45 G 46246150.33 46246150.45 46246150.60 0.0088 0.0037 *

Neptune 121905-10-20 00:41 G 46246238.40 46246238.53 46246238.68 0.0088 0.0029

Mars 121905-10-23 10:45 G 46246241.83 46246241.95 46246242.07 0.1946 0.0532

Neptune 121906-01-16 02:36 G 46246326.47 46246326.61 46246326.75 0.0088 0.0022

Neptune 121906-04-14 04:17 G 46246414.54 46246414.68 46246414.83 0.0088 0.0015

Venus 121906-04-14 07:53 G 46246414.80 46246414.83 46246414.86 0.3732 0.3588 *

Neptune 121906-07-11 06:12 G 46246502.61 46246502.76 46246502.90 0.0088 0.0008

Neptune 121906-10-07 07:53 G 46246590.68 46246590.83 46246590.98 0.0088 0.0001

Neptune 121907-01-03 09:33 G 46246678.76 46246678.90 46246679.05 0.0088 0.0007

Neptune 121907-04-01 11:14 G 46246766.83 46246766.97 46246767.12 0.0088 0.0014

Neptune 121907-06-28 13:09 G 46246854.90 46246855.05 46246855.19 0.0088 0.0021

Neptune 121907-09-24 14:50 G 46246942.98 46246943.12 46246943.26 0.0088 0.0028

Neptune 121907-12-21 16:31 G 46247031.06 46247031.19 46247031.32 0.0088 0.0034

Neptune 121908-03-18 18:12 G 46247119.13 46247119.26 46247119.39 0.0088 0.0041

Neptune 121908-06-14 19:53 G 46247207.21 46247207.33 46247207.45 0.0088 0.0048

Jupiter 121908-09-09 22:17 G 46247294.29 46247294.43 46247294.57 0.0542 0.0075

Neptune 121908-09-10 21:19 G 46247295.29 46247295.39 46247295.52 0.0088 0.0056

Neptune 121908-12-07 23:00 G 46247383.37 46247383.46 46247383.58 0.0088 0.0062

Neptune 121909-03-06 00:41 G 46247471.45 46247471.53 46247471.63 0.0088 0.0069

Neptune 121909-06-02 02:36 G 46247559.54 46247559.61 46247559.69 0.0088 0.0076

Neptune 121909-08-29 04:02 G 46247647.63 46247647.67 46247647.73 0.0088 0.0083

Moon 121911-10-28 12:12 G 46248437.90 46248438.01 46248438.13 0.2684 0.0894

Earth 121911-10-28 12:55 G 46248437.93 46248438.04 46248438.15 0.2680 0.0950 *

Venus 121911-10-29 02:07 G 46248438.49 46248438.59 46248438.70 0.3729 0.1576

Uranus 121912-05-22 20:36 G 46248645.29 46248645.36 46248645.44 0.0140 0.0122

Uranus 121912-08-19 02:07 G 46248733.48 46248733.59 46248733.71 0.0140 0.0099

Uranus 121912-11-15 07:53 G 46248821.70 46248821.83 46248821.97 0.0140 0.0076

Uranus 121913-02-11 13:24 G 46248909.92 46248910.06 46248910.22 0.0140 0.0053

Uranus 121913-05-10 19:24 G 46248998.15 46248998.31 46248998.47 0.0140 0.0029

Uranus 121913-08-07 01:09 G 46249086.38 46249086.55 46249086.71 0.0140 0.0006

Uranus 121913-11-03 06:55 G 46249174.62 46249174.79 46249174.95 0.0140 0.0018

Uranus 121914-01-30 12:41 G 46249262.87 46249263.03 46249263.19 0.0140 0.0042

Uranus 121914-04-28 18:26 G 46249351.13 46249351.27 46249351.42 0.0140 0.0067

Mars 121914-05-04 16:17 G 46249357.08 46249357.18 46249357.28 0.1597 0.1196

Uranus 121914-07-26 00:26 G 46249439.40 46249439.52 46249439.65 0.0140 0.0090

Jupiter 121914-10-21 20:07 G 46249527.19 46249527.34 46249527.50 0.0486 0.0134

Uranus 121914-10-22 06:26 G 46249527.68 46249527.77 46249527.87 0.0139 0.0115

Uranus 121915-01-18 12:12 G 46249616.01 46249616.01 46249616.03 0.0139 0.0139

Venus 121917-05-13 20:21 G 46250462.24 46250462.35 46250462.46 0.3725 0.0373

Saturn 121919-08-14 01:53 G 46251284.44 46251284.58 46251284.72 0.0282 0.0148

Saturn 121919-11-10 19:24 G 46251373.15 46251373.31 46251373.47 0.0282 0.0031

Saturn 121920-02-07 13:24 G 46251461.95 46251462.06 46251462.16 0.0282 0.0213

Jupiter 121920-06-29 00:26 G 46251604.40 46251604.52 46251604.65 0.0543 0.0264

Jupiter 121920-09-26 15:05 G 46251694.08 46251694.13 46251694.18 0.0540 0.0502

Venus 121922-11-27 14:07 G 46252486.01 46252486.09 46252486.18 0.3722 0.2246

Mars 121923-09-24 20:50 G 46252787.22 46252787.37 46252787.53 0.1594 0.0136

Jupiter 121926-08-09 21:19 G 46253837.27 46253837.39 46253837.52 0.0486 0.0292

Jupiter 121926-11-07 15:48 G 46253927.05 46253927.16 46253927.27 0.0488 0.0363

Earth 121927-04-30 16:31 G 46254101.08 46254101.19 46254101.31 0.2651 0.1405

Moon 121927-04-30 17:43 G 46254101.12 46254101.24 46254101.36 0.2655 0.1285 *

Venus 121929-12-24 14:07 G 46255070.02 46255070.09 46255070.17 0.3645 0.2987

Earth 121931-10-24 01:38 G 46255738.56 46255738.57 46255738.58 0.2684 0.2663

Jupiter 121932-04-17 02:36 G 46255914.54 46255914.61 46255914.69 0.0543 0.0453

Jupiter 121932-07-15 17:43 G 46256004.13 46256004.24 46256004.35 0.0541 0.0325

Mars 121933-02-14 02:07 G 46256217.46 46256217.59 46256217.71 0.1592 0.0903

Saturn 121934-06-16 17:43 G 46256705.12 46256705.24 46256705.36 0.0276 0.0151

Saturn 121934-09-13 07:24 G 46256793.67 46256793.81 46256793.96 0.0276 0.0009

Saturn 121934-12-10 21:05 G 46256882.26 46256882.38 46256882.50 0.0277 0.0153

Venus 121935-07-10 14:36 G 46257093.98 46257094.11 46257094.25 0.3649 0.0106

Mars 121935-12-02 04:45 G 46257238.60 46257238.70 46257238.79 0.1942 0.1102

Jupiter 121938-05-28 22:45 G 46258147.39 46258147.45 46258147.51 0.0486 0.0449

Jupiter 121938-08-26 16:31 G 46258237.04 46258237.19 46258237.34 0.0487 0.0197

Earth 121940-05-02 17:14 G 46258852.09 46258852.22 46258852.34 0.2654 0.1149

Moon 121940-05-02 17:57 G 46258852.13 46258852.25 46258852.37 0.2648 0.1304 *

Venus 121941-01-23 15:48 G 46259118.08 46259118.16 46259118.23 0.3654 0.3045

Jupiter 121944-05-03 19:53 G 46260314.20 46260314.33 46260314.47 0.0541 0.0139

Moon 121944-10-25 21:48 G 46260489.30 46260489.41 46260489.53 0.2688 0.0715

Earth 121944-10-25 21:48 G 46260489.30 46260489.41 46260489.53 0.2681 0.0632 *

Mars 121945-04-23 11:00 G 46260668.84 46260668.96 46260669.07 0.1946 0.0373

Saturn 121948-12-31 01:09 G 46262016.45 46262016.55 46262016.66 0.0282 0.0210

Saturn 121949-03-29 18:41 G 46262105.12 46262105.28 46262105.44 0.0282 0.0032

Saturn 121949-06-26 12:26 G 46262193.88 46262194.02 46262194.16 0.0282 0.0149

Jupiter 121950-06-14 17:57 G 46262547.08 46262547.25 46262547.41 0.0487 0.0039

Mars 121953-11-02 16:45 G 46263784.12 46263784.20 46263784.28 0.1597 0.1368

Mars 121954-09-13 17:00 G 46264099.18 46264099.21 46264099.24 0.1949 0.1855

Uranus 121955-08-26 19:53 G 46264446.27 46264446.33 46264446.40 0.0138 0.0124

Uranus 121955-11-23 00:12 G 46264534.42 46264534.51 46264534.62 0.0138 0.0104

Uranus 121956-02-19 04:45 G 46264622.59 46264622.70 46264622.82 0.0138 0.0083

Jupiter 121956-02-20 20:50 G 46264624.23 46264624.37 46264624.51 0.0542 0.0073

Uranus 121956-05-17 09:19 G 46264710.75 46264710.89 46264711.02 0.0138 0.0062

Uranus 121956-08-13 13:38 G 46264798.93 46264799.07 46264799.21 0.0138 0.0042

Uranus 121956-11-09 17:57 G 46264887.10 46264887.25 46264887.40 0.0138 0.0021

Uranus 121957-02-05 22:17 G 46264975.28 46264975.43 46264975.58 0.0138 0.0001

Uranus 121957-05-05 02:36 G 46265063.46 46265063.61 46265063.75 0.0138 0.0019

Uranus 121957-08-01 06:55 G 46265151.64 46265151.79 46265151.93 0.0138 0.0040

Uranus 121957-10-28 11:00 G 46265239.83 46265239.96 46265240.09 0.0138 0.0060

Earth 121957-10-28 17:57 G 46265240.15 46265240.25 46265240.35 0.2679 0.1357

Moon 121957-10-28 18:55 G 46265240.19 46265240.29 46265240.38 0.2682 0.1575 *

Uranus 121958-01-24 15:05 G 46265328.02 46265328.13 46265328.26 0.0138 0.0080

Uranus 121958-04-22 19:09 G 46265416.21 46265416.30 46265416.41 0.0139 0.0100

Uranus 121958-07-19 23:14 G 46265504.41 46265504.47 46265504.56 0.0139 0.0120

Jupiter 121962-04-02 18:55 G 46266857.14 46266857.29 46266857.45 0.0487 0.0124

Venus 121962-11-19 05:57 G 46267087.69 46267087.75 46267087.82 0.3732 0.2932

Mars 121963-03-25 21:33 G 46267214.25 46267214.40 46267214.55 0.1594 0.0303

Saturn 121963-11-03 20:36 G 46267437.25 46267437.36 46267437.47 0.0277 0.0180

Saturn 121964-01-31 10:31 G 46267525.79 46267525.94 46267526.09 0.0277 0.0026

Saturn 121964-04-29 00:12 G 46267614.38 46267614.51 46267614.64 0.0277 0.0126

Saturn 121964-07-26 13:38 G 46267703.05 46267703.07 46267703.08 0.0277 0.0276

Jupiter 121967-12-09 22:31 G 46268934.31 46268934.44 46268934.56 0.0542 0.0273

Jupiter 121968-03-08 12:55 G 46269023.98 46269024.04 46269024.09 0.0540 0.0491

Venus 121968-06-04 00:26 G 46269111.41 46269111.52 46269111.63 0.3728 0.0933

Mars 121972-08-15 02:21 G 46270644.46 46270644.60 46270644.74 0.1592 0.0746

Moon 121973-04-30 22:17 G 46270903.30 46270903.43 46270903.56 0.2645 0.0968

Earth 121973-04-30 22:17 G 46270903.30 46270903.43 46270903.56 0.2652 0.0886 *

Venus 121973-12-18 18:26 G 46271135.16 46271135.27 46271135.38 0.3724 0.0989

Jupiter 121974-01-19 19:38 G 46271167.19 46271167.32 46271167.45 0.0486 0.0291

Jupiter 121974-04-19 13:53 G 46271256.98 46271257.08 46271257.19 0.0488 0.0364

Mars 121975-06-02 04:31 G 46271665.60 46271665.69 46271665.78 0.1943 0.1246

Earth 121977-10-24 06:55 G 46272540.72 46272540.79 46272540.85 0.2683 0.2230

Moon 121977-10-24 07:09 G 46272540.73 46272540.80 46272540.88 0.2690 0.2126 *

Saturn 121978-05-20 03:33 G 46272748.57 46272748.65 46272748.73 0.0282 0.0240

Saturn 121978-08-16 20:50 G 46272837.22 46272837.37 46272837.53 0.0282 0.0064

Saturn 121978-11-13 14:36 G 46272925.96 46272926.11 46272926.26 0.0282 0.0117

Venus 121979-07-04 12:12 G 46273158.94 46273159.01 46273159.08 0.3721 0.2839

Jupiter 121979-09-28 00:12 G 46273244.44 46273244.51 46273244.58 0.0543 0.0469

Jupiter 121979-12-26 15:19 G 46273334.03 46273334.14 46273334.26 0.0541 0.0311

Mars 121984-10-22 11:00 G 46275095.84 46275095.96 46275096.08 0.1946 0.0196

Jupiter 121985-11-07 21:05 G 46275477.32 46275477.38 46275477.44 0.0485 0.0447

Jupiter 121986-02-05 14:50 G 46275566.97 46275567.12 46275567.27 0.0487 0.0197

Moon 121986-05-03 21:48 G 46275654.30 46275654.41 46275654.52 0.2651 0.1590

Earth 121986-05-03 23:00 G 46275654.35 46275654.46 46275654.56 0.2654 0.1677 *

Venus 121986-07-31 14:07 G 46275742.98 46275743.09 46275743.19 0.3646 0.2076

Neptune 121987-10-12 09:05 G 46276180.85 46276180.88 46276180.92 0.0089 0.0086

Neptune 121988-01-08 11:29 G 46276268.91 46276268.98 46276269.07 0.0089 0.0078

Neptune 121988-04-05 14:07 G 46276356.99 46276357.09 46276357.20 0.0089 0.0070

Neptune 121988-07-02 16:31 G 46276445.08 46276445.19 46276445.32 0.0089 0.0062

Neptune 121988-09-28 19:09 G 46276533.18 46276533.30 46276533.44 0.0089 0.0054

Neptune 121988-12-25 21:48 G 46276621.27 46276621.41 46276621.56 0.0089 0.0046

Neptune 121989-03-24 00:26 G 46276709.37 46276709.52 46276709.68 0.0089 0.0038

Neptune 121989-06-20 03:05 G 46276797.48 46276797.63 46276797.80 0.0089 0.0029

Neptune 121989-09-16 05:43 G 46276885.58 46276885.74 46276885.91 0.0089 0.0021

Neptune 121989-12-13 08:21 G 46276973.69 46276973.85 46276974.02 0.0089 0.0013

Neptune 121990-03-11 11:00 G 46277061.80 46277061.96 46277062.14 0.0089 0.0005

Neptune 121990-06-07 13:53 G 46277149.91 46277150.08 46277150.25 0.0089 0.0004

Neptune 121990-09-03 16:31 G 46277238.02 46277238.19 46277238.36 0.0089 0.0012

Earth 121990-10-27 03:05 G 46277291.51 46277291.63 46277291.75 0.2681 0.0199

Moon 121990-10-27 04:02 G 46277291.55 46277291.67 46277291.79 0.2679 0.0115 *

Neptune 121990-11-30 18:55 G 46277326.13 46277326.29 46277326.47 0.0089 0.0021

Neptune 121991-02-26 21:48 G 46277414.25 46277414.41 46277414.58 0.0089 0.0029

Neptune 121991-05-26 00:12 G 46277502.37 46277502.51 46277502.68 0.0089 0.0039

Neptune 121991-08-22 03:05 G 46277590.49 46277590.63 46277590.79 0.0089 0.0046

Jupiter 121991-10-14 17:57 G 46277644.11 46277644.25 46277644.38 0.0542 0.0131

Neptune 121991-11-18 05:43 G 46277678.62 46277678.74 46277678.89 0.0089 0.0055

Neptune 121992-02-14 08:36 G 46277766.75 46277766.86 46277766.99 0.0089 0.0064

Venus 121992-02-14 14:36 G 46277766.98 46277767.11 46277767.24 0.3650 0.0891 *

Neptune 121992-05-12 11:14 G 46277854.88 46277854.97 46277855.08 0.0089 0.0072

Neptune 121992-08-08 13:53 G 46277943.02 46277943.08 46277943.17 0.0089 0.0081

Saturn 121993-03-22 21:33 G 46278169.32 46278169.40 46278169.48 0.0276 0.0230

Mars 121993-05-03 17:14 G 46278211.18 46278211.22 46278211.26 0.1597 0.1536

Saturn 121993-06-19 11:29 G 46278257.84 46278257.98 46278258.13 0.0276 0.0075

Saturn 121993-09-16 01:09 G 46278346.41 46278346.55 46278346.69 0.0277 0.0078

Saturn 121993-12-13 14:36 G 46278435.03 46278435.11 46278435.20 0.0277 0.0227

Mars 121994-03-14 17:00 G 46278526.16 46278526.21 46278526.27 0.1949 0.1690

Uranus 121996-03-15 22:31 G 46279258.42 46279258.44 46279258.49 0.0140 0.0138

Uranus 121996-06-12 04:17 G 46279346.59 46279346.68 46279346.78 0.0140 0.0114

Uranus 121996-09-08 09:48 G 46279434.80 46279434.91 46279435.05 0.0140 0.0091

Uranus 121996-12-05 15:33 G 46279523.01 46279523.15 46279523.30 0.0140 0.0068

Uranus 121997-03-03 21:19 G 46279611.24 46279611.39 46279611.55 0.0140 0.0044

Uranus 121997-05-31 03:05 G 46279699.47 46279699.63 46279699.80 0.0140 0.0021

Uranus 121997-08-27 08:50 G 46279787.70 46279787.87 46279788.04 0.0140 0.0003

Uranus 121997-11-23 14:36 G 46279875.95 46279876.11 46279876.28 0.0140 0.0027

Jupiter 121997-11-24 15:33 G 46279876.99 46279877.15 46279877.32 0.0487 0.0034

Uranus 121998-02-19 20:21 G 46279964.20 46279964.35 46279964.51 0.0140 0.0051

Uranus 121998-05-19 02:07 G 46280052.46 46280052.59 46280052.74 0.0140 0.0075

Uranus 121998-08-15 08:07 G 46280140.73 46280140.84 46280140.96 0.0140 0.0099

Uranus 121998-11-11 13:53 G 46280229.02 46280229.08 46280229.17 0.0139 0.0124

123RD MILLENNIUM CE

This is a list of transits of Mercury in the 123rd millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Mars 122002-09-23 22:02 G 46281641.27 46281641.42 46281641.57 0.1594 0.0469

Jupiter 122003-08-02 19:53 G 46281954.19 46281954.33 46281954.47 0.0542 0.0060

Moon 122003-10-29 23:00 G 46282042.38 46282042.46 46282042.55 0.2673 0.1803

Earth 122003-10-29 23:00 G 46282042.38 46282042.46 46282042.55 0.2679 0.1769 *

Saturn 122008-01-03 20:07 G 46283569.20 46283569.34 46283569.49 0.0282 0.0127

Saturn 122008-04-01 13:38 G 46283657.91 46283658.07 46283658.23 0.0282 0.0053

Saturn 122008-06-29 07:38 G 46283746.73 46283746.82 46283746.91 0.0282 0.0235

Jupiter 122009-09-12 17:00 G 46284187.05 46284187.21 46284187.37 0.0487 0.0125

Mars 122012-02-14 02:50 G 46285071.48 46285071.62 46285071.77 0.1592 0.0577

Mars 122014-12-01 04:45 G 46286092.62 46286092.70 46286092.78 0.1942 0.1416

Jupiter 122015-05-21 20:50 G 46286264.25 46286264.37 46286264.49 0.0542 0.0272

Jupiter 122015-08-19 11:14 G 46286353.92 46286353.97 46286354.03 0.0540 0.0492

Moon 122019-05-02 02:50 G 46287705.49 46287705.62 46287705.75 0.2654 0.0596

Earth 122019-05-02 04:02 G 46287705.53 46287705.67 46287705.81 0.2652 0.0370 *

Venus 122019-06-26 04:17 G 46287760.59 46287760.68 46287760.77 0.3731 0.2272

Jupiter 122021-07-01 18:12 G 46288497.13 46288497.26 46288497.39 0.0486 0.0284

Jupiter 122021-09-29 12:41 G 46288586.92 46288587.03 46288587.13 0.0488 0.0372

Saturn 122022-08-10 00:12 G 46288901.47 46288901.51 46288901.56 0.0277 0.0261

Saturn 122022-11-06 14:21 G 46288989.96 46288990.10 46288990.24 0.0277 0.0105

Saturn 122023-02-03 04:02 G 46289078.53 46289078.67 46289078.82 0.0277 0.0049

Saturn 122023-05-02 17:43 G 46289167.14 46289167.24 46289167.34 0.0277 0.0199

Earth 122023-10-25 11:57 G 46289342.91 46289343.00 46289343.09 0.2683 0.1804

Moon 122023-10-25 12:26 G 46289342.93 46289343.02 46289343.11 0.2677 0.1743 *

Mars 122024-04-22 11:00 G 46289522.84 46289522.96 46289523.08 0.1946 0.0050

Venus 122025-01-08 22:31 G 46289784.33 46289784.44 46289784.55 0.3727 0.0300

Jupiter 122027-03-09 22:02 G 46290574.36 46290574.42 46290574.49 0.0543 0.0477

Jupiter 122027-06-07 13:09 G 46290663.94 46290664.05 46290664.17 0.0541 0.0302

Pluto 122028-04-17 00:26 G 46290978.43 46290978.52 46290978.62 0.0058 0.0051

Pluto 122028-07-14 01:38 G 46291066.45 46291066.57 46291066.72 0.0059 0.0043

Pluto 122028-10-10 02:50 G 46291154.48 46291154.62 46291154.79 0.0059 0.0035

Pluto 122029-01-06 04:17 G 46291242.52 46291242.68 46291242.87 0.0059 0.0027

Pluto 122029-04-04 05:29 G 46291330.56 46291330.73 46291330.93 0.0059 0.0019

Pluto 122029-07-01 07:09 G 46291418.61 46291418.80 46291418.99 0.0059 0.0010

Pluto 122029-09-27 08:36 G 46291506.66 46291506.86 46291507.05 0.0059 0.0002

Pluto 122029-12-24 09:33 G 46291594.71 46291594.90 46291595.11 0.0059 0.0007

Pluto 122030-03-22 11:00 G 46291682.78 46291682.96 46291683.16 0.0059 0.0015

Pluto 122030-06-18 12:12 G 46291770.84 46291771.01 46291771.20 0.0059 0.0023

Venus 122030-07-25 16:31 G 46291808.09 46291808.19 46291808.29 0.3724 0.1594

Pluto 122030-09-14 13:53 G 46291858.91 46291859.08 46291859.24 0.0059 0.0031

Pluto 122030-12-11 14:36 G 46291946.99 46291947.11 46291947.28 0.0059 0.0040

Pluto 122031-03-09 16:17 G 46292035.08 46292035.18 46292035.30 0.0059 0.0048

Pluto 122031-06-05 17:14 G 46292123.19 46292123.22 46292123.30 0.0059 0.0057

Earth 122032-05-04 04:45 G 46292456.62 46292456.70 46292456.77 0.2654 0.2210

Moon 122032-05-04 04:45 G 46292456.63 46292456.70 46292456.77 0.2661 0.2270 *

Jupiter 122033-04-19 19:09 G 46292807.24 46292807.30 46292807.36 0.0486 0.0449

Jupiter 122033-07-18 12:41 G 46292896.88 46292897.03 46292897.19 0.0487 0.0196

Mars 122033-09-12 17:14 G 46292953.14 46292953.22 46292953.29 0.1949 0.1527

Venus 122036-02-08 10:17 G 46293831.89 46293831.93 46293831.97 0.3720 0.3429

Moon 122036-10-27 07:53 G 46294093.71 46294093.83 46294093.95 0.2675 0.0182

Earth 122036-10-27 08:21 G 46294093.73 46294093.85 46294093.97 0.2681 0.0229 *

Saturn 122037-05-22 22:45 G 46294301.32 46294301.45 46294301.59 0.0282 0.0154

Saturn 122037-08-19 16:31 G 46294390.02 46294390.19 46294390.35 0.0282 0.0026

Saturn 122037-11-16 10:17 G 46294478.82 46294478.93 46294479.04 0.0282 0.0207

Jupiter 122039-03-26 15:19 G 46294974.01 46294974.14 46294974.28 0.0542 0.0116

Uranus 122039-09-16 03:05 G 46295147.56 46295147.63 46295147.71 0.0138 0.0119

Uranus 122039-12-13 07:38 G 46295235.72 46295235.82 46295235.93 0.0138 0.0098

Uranus 122040-03-10 11:57 G 46295323.88 46295324.00 46295324.13 0.0138 0.0077

Uranus 122040-06-06 16:31 G 46295412.05 46295412.19 46295412.33 0.0138 0.0056

Uranus 122040-09-02 20:50 G 46295500.23 46295500.37 46295500.52 0.0138 0.0036

Uranus 122040-11-30 01:09 G 46295588.41 46295588.55 46295588.70 0.0138 0.0016

Uranus 122041-02-26 05:29 G 46295676.58 46295676.73 46295676.88 0.0138 0.0005

Uranus 122041-05-25 09:48 G 46295764.77 46295764.91 46295765.06 0.0138 0.0025

Uranus 122041-08-21 13:53 G 46295852.95 46295853.08 46295853.23 0.0138 0.0046

Uranus 122041-11-17 18:12 G 46295941.13 46295941.26 46295941.39 0.0138 0.0065

Uranus 122042-02-13 22:17 G 46296029.32 46296029.43 46296029.55 0.0138 0.0086

Mars 122042-03-24 22:17 G 46296068.29 46296068.43 46296068.58 0.1595 0.0628

Uranus 122042-05-13 02:36 G 46296117.52 46296117.61 46296117.71 0.0139 0.0105

Uranus 122042-08-09 06:41 G 46296205.72 46296205.78 46296205.85 0.0139 0.0125

Venus 122043-03-07 13:38 G 46296415.95 46296416.07 46296416.20 0.3647 0.1170

Jupiter 122045-05-06 13:38 G 46297206.91 46297207.07 46297207.24 0.0487 0.0035

Venus 122048-09-20 14:36 G 46298439.99 46298440.11 46298440.23 0.3652 0.1876

Moon 122049-10-30 03:19 G 46298844.57 46298844.64 46298844.72 0.2681 0.2004

Earth 122049-10-30 04:17 G 46298844.61 46298844.68 46298844.75 0.2679 0.2182 *

Jupiter 122051-01-12 17:43 G 46299284.10 46299284.24 46299284.38 0.0542 0.0070

Mars 122051-08-15 03:19 G 46299498.49 46299498.64 46299498.79 0.1592 0.0418

Saturn 122052-03-25 15:33 G 46299722.03 46299722.15 46299722.28 0.0276 0.0152

Moon 122052-04-29 08:50 G 46299756.83 46299756.87 46299756.91 0.2656 0.2504

Earth 122052-04-29 09:33 G 46299756.84 46299756.90 46299756.96 0.2650 0.2354 *

Saturn 122052-06-22 05:29 G 46299810.58 46299810.73 46299810.88 0.0277 0.0004

Saturn 122052-09-18 19:09 G 46299899.18 46299899.30 46299899.42 0.0277 0.0153

Mars 122054-06-01 04:45 G 46300519.63 46300519.70 46300519.77 0.1942 0.1574

Jupiter 122057-02-22 14:36 G 46301516.96 46301517.11 46301517.27 0.0486 0.0133

Mars 122061-01-04 08:21 G 46302928.79 46302928.85 46302928.92 0.1590 0.1438

Jupiter 122062-10-31 19:38 G 46303594.20 46303594.32 46303594.45 0.0542 0.0262

Jupiter 122063-01-29 10:17 G 46303683.89 46303683.93 46303683.98 0.0540 0.0504

Mars 122063-10-22 11:14 G 46303949.84 46303949.97 46303950.09 0.1946 0.0142

Earth 122065-05-02 09:48 G 46304507.77 46304507.91 46304508.04 0.2652 0.0150

Moon 122065-05-02 10:31 G 46304507.80 46304507.94 46304508.07 0.2657 0.0299 *

Saturn 122066-10-09 22:02 G 46305033.32 46305033.42 46305033.53 0.0282 0.0216

Saturn 122067-01-06 15:33 G 46305121.99 46305122.15 46305122.31 0.0282 0.0039

Saturn 122067-04-05 09:05 G 46305210.74 46305210.88 46305211.03 0.0282 0.0142

Neptune 122068-08-11 09:05 G 46305704.85 46305704.88 46305704.94 0.0088 0.0084

Neptune 122068-11-07 11:00 G 46305792.90 46305792.96 46305793.04 0.0088 0.0077

Jupiter 122068-12-11 16:17 G 46305827.05 46305827.18 46305827.31 0.0486 0.0286

Neptune 122069-02-03 12:41 G 46305880.95 46305881.03 46305881.14 0.0088 0.0070

Jupiter 122069-03-11 10:31 G 46305916.84 46305916.94 46305917.05 0.0488 0.0369

Neptune 122069-05-02 14:50 G 46305969.02 46305969.12 46305969.23 0.0088 0.0062

Neptune 122069-07-29 16:31 G 46306057.08 46306057.19 46306057.31 0.0088 0.0055

Moon 122069-10-25 16:31 G 46306145.09 46306145.19 46306145.28 0.2680 0.1585

Earth 122069-10-25 17:14 G 46306145.12 46306145.22 46306145.32 0.2683 0.1370 *

Neptune 122069-10-25 18:26 G 46306145.15 46306145.27 46306145.40 0.0088 0.0047 *

Neptune 122070-01-21 20:07 G 46306233.22 46306233.34 46306233.48 0.0088 0.0041

Neptune 122070-04-19 22:02 G 46306321.29 46306321.42 46306321.56 0.0088 0.0033

Neptune 122070-07-16 23:43 G 46306409.36 46306409.49 46306409.64 0.0088 0.0026

Venus 122070-07-17 08:07 G 46306409.82 46306409.84 46306409.85 0.3733 0.3665

Neptune 122070-10-13 01:38 G 46306497.43 46306497.57 46306497.72 0.0088 0.0019

Neptune 122071-01-09 03:19 G 46306585.50 46306585.64 46306585.79 0.0088 0.0012

Neptune 122071-04-07 05:14 G 46306673.57 46306673.72 46306673.87 0.0088 0.0005

Neptune 122071-07-04 06:55 G 46306761.65 46306761.79 46306761.94 0.0088 0.0003

Neptune 122071-09-30 08:50 G 46306849.72 46306849.87 46306850.01 0.0088 0.0010

Neptune 122071-12-27 10:31 G 46306937.79 46306937.94 46306938.08 0.0088 0.0016

Neptune 122072-03-24 12:12 G 46307025.87 46307026.01 46307026.15 0.0088 0.0023

Neptune 122072-06-20 13:53 G 46307113.94 46307114.08 46307114.22 0.0088 0.0030

Neptune 122072-09-16 15:33 G 46307202.02 46307202.15 46307202.29 0.0088 0.0037

Neptune 122072-12-13 17:14 G 46307290.10 46307290.22 46307290.35 0.0088 0.0044

Neptune 122073-03-11 18:41 G 46307378.18 46307378.28 46307378.41 0.0088 0.0052

Mars 122073-03-13 17:14 G 46307380.14 46307380.22 46307380.31 0.1949 0.1357

Neptune 122073-06-07 20:21 G 46307466.26 46307466.35 46307466.48 0.0088 0.0059

Neptune 122073-09-03 22:17 G 46307554.34 46307554.43 46307554.53 0.0088 0.0065

Neptune 122073-11-30 23:57 G 46307642.42 46307642.50 46307642.59 0.0088 0.0071

Neptune 122074-02-27 01:38 G 46307730.51 46307730.57 46307730.64 0.0088 0.0078

Neptune 122074-05-26 03:05 G 46307818.61   46307818.63   46307818.68 0.0088 0.0085

Jupiter 122074-08-19 20:36 G 46307904.30   46307904.36   46307904.43 0.0542 0.0475

Jupiter 122074-11-17 11:43 G 46307993.88   46307993.99   46307994.10 0.0540 0.0303

Venus   122076-01-31 02:36 G 46308433.51   46308433.61   46308433.71 0.3730 0.1632

Uranus   122080-04-05 06:26 G 46309959.72   46309959.77   46309959.84 0.0140 0.0129

Uranus   122080-07-02 11:57 G 46310047.91   46310048.00   46310048.12 0.0140 0.0106

Uranus   122080-09-28 17:43 G 46310136.11   46310136.24   46310136.38 0.0140 0.0083

Jupiter 122080-09-29 17:29 G 46310137.17   46310137.23   46310137.30 0.0486 0.0444

Uranus   122080-12-25 23:29 G 46310224.33   46310224.48   46310224.63 0.0140 0.0059

Jupiter 122080-12-28 11:14 G 46310226.83   46310226.97   46310227.12 0.0487 0.0202

Uranus   122081-03-24 05:14 G 46310312.56   46310312.72   46310312.88 0.0140 0.0036

Uranus   122081-06-20 11:00 G 46310400.79   46310400.96   46310401.12 0.0140 0.0013

Saturn   122081-08-12 17:57 G 46310454.15   46310454.25   46310454.37 0.0277 0.0186

Venus   122081-08-15 20:36 G 46310457.25   46310457.36   46310457.47 0.3726 0.0315

Uranus   122081-09-16 16:45 G 46310489.03   46310489.20   46310489.36 0.0140 0.0012

Mars   122081-09-22 22:45 G 46310495.32   46310495.45   46310495.59 0.1595 0.0800

Saturn   122081-11-09 08:07 G 46310542.69   46310542.84   46310542.99 0.0277 0.0030

Uranus   122081-12-13 22:31 G 46310577.28   46310577.44   46310577.60 0.0140 0.0035

Saturn   122082-02-05 21:48 G 46310631.28   46310631.41   46310631.54 0.0277 0.0123

Uranus   122082-03-12 04:02 G 46310665.53   46310665.67   46310665.83 0.0140 0.0060

Saturn   122082-05-05 11:14 G 46310719.95   46310719.97   46310720.00 0.0277 0.0272

Uranus   122082-06-08 10:02 G 46310753.79   46310753.92   46310754.06 0.0140 0.0084

Uranus   122082-09-04 15:48 G 46310842.07   46310842.16   46310842.28 0.0140 0.0108

Moon   122082-10-28 12:55 G 46310895.92   46310896.04   46310896.16 0.2687 0.0634

Earth   122082-10-28 13:24 G 46310895.94   46310896.06   46310896.18 0.2680 0.0635 *

Uranus   122082-12-01 22:02 G 46310930.37   46310930.42   46310930.48 0.0140 0.0132

Jupiter 122086-09-05 13:24 G 46312303.93   46312304.06   46312304.20 0.0541 0.0108

Venus   122087-03-01 14:36 G 46312481.02   46312481.11   46312481.20 0.3723 0.2199

Mars   122091-02-13 03:33 G 46313925.50   46313925.65   46313925.81 0.1592 0.0260

Jupiter 122092-10-16 11:43 G 46314536.83   46314536.99   46314537.15 0.0487 0.0029

Mars 122093-11-30 04:45 G 46314946.65 46314946.70 46314946.76 0.1942 0.1729

Venus 122094-03-28 13:09 G 46315064.99 46315065.05 46315065.12 0.3644 0.3121

Earth 122095-10-31 09:19 G 46315646.86 46315646.89 46315646.92 0.2678 0.2581

Moon 122095-10-31 09:48 G 46315646.89 46315646.91 46315646.94 0.2683 0.2607 *

Saturn 122096-02-27 01:09 G 46315765.47 46315765.55 46315765.64 0.0282 0.0239

Saturn 122096-05-25 18:26 G 46315854.12 46315854.27 46315854.43 0.0282 0.0063

Saturn 122096-08-22 11:57 G 46315942.86 46315943.00 46315943.16 0.0282 0.0117

Earth 122098-04-30 15:05 G 46316559.04 46316559.13 46316559.23 0.2650 0.1851

Moon 122098-04-30 16:17 G 46316559.08 46316559.18 46316559.28 0.2652 0.1770 *

Jupiter 122098-06-24 15:19 G 46316614.00 46316614.14 46316614.28 0.0542 0.0087

Venus 122099-10-12 13:38 G 46317088.94 46317089.07 46317089.21 0.3648 0.0219

Mars 122100-07-06 08:50 G 46317355.78 46317355.87 46317355.96 0.1590 0.1280

Mars 122103-04-23 11:29 G 46318376.86 46318376.98 46318377.09 0.1946 0.0309

Jupiter 122104-08-05 12:55 G 46318846.88 46318847.04 46318847.19 0.0486 0.0133

Venus 122105-04-28 14:36 G 46319113.03 46319113.11 46319113.20 0.3653 0.2879

Jupiter 122110-04-13 17:29 G 46320924.11 46320924.23 46320924.35 0.0543 0.0274

Jupiter 122110-07-12 08:07 G 46321013.79 46321013.84 46321013.90 0.0541 0.0494

Saturn 122110-12-31 19:38 G 46321186.24 46321186.32 46321186.41 0.0276 0.0228

Saturn 122111-03-30 09:48 G 46321274.76 46321274.91 46321275.05 0.0276 0.0073

Earth 122111-05-04 15:19 G 46321310.01 46321310.14 46321310.28 0.2653 0.0660

Moon 122111-05-04 16:17 G 46321310.04 46321310.18 46321310.31 0.2647 0.0865 *

Saturn 122111-06-26 23:29 G 46321363.34 46321363.48 46321363.62 0.0277 0.0079

Saturn 122111-09-23 12:55 G 46321451.96 46321452.04 46321452.12 0.0277 0.0229

Mars 122112-09-12 17:14 G 46321807.13 46321807.22 46321807.32 0.1949 0.1204

Earth 122115-10-27 22:17 G 46322947.32 46322947.43 46322947.55 0.2682 0.0953

Moon 122115-10-27 22:31 G 46322947.33 46322947.44 46322947.55 0.2689 0.0981 *

Jupiter 122116-05-24 13:53 G 46323156.96 46323157.08 46323157.21 0.0486 0.0293

Jupiter 122116-08-22 08:07 G 46323246.73 46323246.84 46323246.95 0.0488 0.0361

Mars 122121-03-24 23:14 G 46324922.35 46324922.47 46324922.60 0.1595 0.0967

Jupiter 122122-01-30 19:24 G 46325234.24 46325234.31 46325234.38 0.0543 0.0468

Jupiter 122122-04-30 10:31 G 46325323.83 46325323.94 46325324.06 0.0541 0.0312

Uranus 122123-07-11 06:12 G 46325760.73 46325760.76 46325760.81 0.0138 0.0132

Uranus 122123-10-07 10:45 G 46325848.87 46325848.95 46325849.05 0.0138 0.0111

Uranus 122124-01-03 15:19 G 46325937.03 46325937.14 46325937.26 0.0138 0.0090

Uranus 122124-03-31 19:38 G 46326025.20 46326025.32 46326025.46 0.0138 0.0070

Uranus 122124-06-28 00:12 G 46326113.37 46326113.51 46326113.65 0.0138 0.0049

Uranus 122124-09-24 04:31 G 46326201.55 46326201.69 46326201.84 0.0138 0.0029

Uranus 122124-12-21 08:50 G 46326289.72 46326289.87 46326290.02 0.0138 0.0008

Uranus 122125-03-19 13:09 G 46326377.90 46326378.05 46326378.20 0.0138 0.0012

Uranus 122125-06-15 17:29 G 46326466.08 46326466.23 46326466.37 0.0138 0.0032

Uranus 122125-09-11 21:33 G 46326554.27 46326554.40 46326554.54 0.0138 0.0053

Saturn 122125-10-13 17:43 G 46326586.09 46326586.24 46326586.38 0.0282 0.0127

Uranus 122125-12-09 01:53 G 46326642.46 46326642.58 46326642.71 0.0138 0.0072

Saturn 122126-01-10 11:00 G 46326674.80 46326674.96 46326675.13 0.0282 0.0052

Uranus 122126-03-07 05:57 G 46326730.65 46326730.75 46326730.86 0.0138 0.0092

Pluto 122126-03-16 22:45 G 46326740.38 46326740.45 46326740.54 0.0085 0.0069

Saturn 122126-04-09 05:00 G 46326763.62 46326763.71 46326763.80 0.0282 0.0233

Uranus 122126-06-03 10:17 G 46326818.85 46326818.93 46326819.01 0.0139 0.0112

Pluto 122126-06-13 00:12 G 46326828.41 46326828.51 46326828.62 0.0085 0.0051

Uranus 122126-08-30 14:07 G 46326907.06 46326907.09 46326907.14 0.0139 0.0132

Pluto 122126-09-09 01:24 G 46326916.44 46326916.56 46326916.69 0.0085 0.0034

Pluto 122126-12-06 02:50 G 46327004.49 46327004.62 46327004.75 0.0085 0.0017

Venus 122127-02-22 06:12 G 46327082.70 46327082.76 46327082.83 0.3732 0.3000

Pluto 122127-03-04 04:02 G 46327092.54 46327092.67 46327092.80 0.0085 0.0001

Pluto 122127-05-31 05:14 G 46327180.59 46327180.72 46327180.85 0.0085 0.0017

Pluto 122127-08-27 06:26 G 46327268.65 46327268.77 46327268.89 0.0085 0.0033

Pluto 122127-11-23 07:38 G 46327356.72 46327356.82 46327356.93 0.0085 0.0050

Pluto 122128-02-19 08:36 G 46327444.79 46327444.86 46327444.95 0.0084 0.0067

Jupiter 122128-03-12 15:33 G 46327467.09 46327467.15 46327467.21 0.0486 0.0446

Pluto 122128-05-17 10:02 G 46327532.90 46327532.92 46327532.95 0.0084 0.0083

Jupiter 122128-06-10 09:05 G 46327556.74 46327556.88 46327557.04 0.0487 0.0200

Earth 122128-10-29 18:26 G 46327698.16 46327698.27 46327698.38 0.2680 0.1050

Moon 122128-10-29 19:24 G 46327698.20 46327698.31 46327698.41 0.2683 0.1215 *

Mars 122130-08-15 04:17 G 46328352.52 46328352.68 46328352.83 0.1592 0.0095

Venus 122132-09-07 00:41 G 46329106.42 46329106.53 46329106.63 0.3729 0.1004

Mars 122133-06-01 05:00 G 46329373.69 46329373.71 46329373.73 0.1942 0.1895

Jupiter 122134-02-16 11:57 G 46329633.86 46329634.00 46329634.14 0.0541 0.0110

Venus 122138-03-23 18:41 G 46331130.17 46331130.28 46331130.39 0.3725 0.0935

Mars 122140-01-05 09:19 G 46331782.78 46331782.89 46331783.00 0.1590 0.1117

Jupiter 122140-03-29 10:02 G 46331866.76 46331866.92 46331867.09 0.0487 0.0036

Saturn 122140-05-19 21:33 G 46331918.37 46331918.40 46331918.45 0.0277 0.0267

Saturn 122140-08-16 11:57 G 46332006.86 46332007.00 46332007.13 0.0277 0.0110

Saturn 122140-11-13 01:38 G 46332095.43 46332095.57 46332095.72 0.0277 0.0045

Saturn 122141-02-09 15:19 G 46332184.04 46332184.14 46332184.24 0.0277 0.0196

Mars 122142-10-22 11:14 G 46332803.85 46332803.97 46332804.09 0.1945 0.0439

Venus 122143-10-07 12:41 G 46333153.95 46333154.03 46333154.10 0.3721 0.2798

Moon 122144-05-01 20:50 G 46333361.25 46333361.37 46333361.48 0.2644 0.1395

Earth 122144-05-01 20:50 G 46333361.25 46333361.37 46333361.49 0.2651 0.1335 *

Jupiter 122145-12-05 13:24 G 46333943.92 46333944.06 46333944.20 0.0542 0.0091

Earth 122148-10-25 07:09 G 46334998.77 46334998.80 46334998.84 0.2684 0.2569

Moon 122148-10-25 07:53 G 46334998.79 46334998.83 46334998.87 0.2689 0.2505 *

Venus 122150-11-03 13:09 G 46335737.94 46335738.05 46335738.15 0.3645 0.2208

Jupiter 122152-01-16 10:45 G 46336176.80 46336176.95 46336177.11 0.0486 0.0136

Mars 122152-03-13 17:29 G 46336234.13 46336234.23 46336234.33 0.1949 0.1027

Neptune 122152-07-09 07:09 G 46336351.76 46336351.80 46336351.86 0.0089 0.0084

Neptune 122152-10-05 09:33 G 46336439.83 46336439.90 46336440.00 0.0089 0.0076

Neptune 122153-01-01 12:12 G 46336527.92 46336528.01 46336528.13 0.0089 0.0068

Neptune 122153-03-30 14:50 G 46336616.01 46336616.12 46336616.25 0.0089 0.0060

Neptune 122153-06-26 17:14 G 46336704.10 46336704.22 46336704.37 0.0089 0.0052

Neptune 122153-09-22 20:07 G 46336792.20 46336792.34 46336792.49 0.0089 0.0043

Neptune 122153-12-19 22:45 G 46336880.30   46336880.45   46336880.61 0.0089 0.0035

Neptune 122154-03-18 01:24 G 46336968.40   46336968.56   46336968.72 0.0089 0.0027

Neptune 122154-06-14 03:48 G 46337056.50   46337056.66   46337056.84 0.0089 0.0019

Neptune 122154-09-10 06:41 G 46337144.61   46337144.78   46337144.95 0.0089 0.0010

Neptune 122154-12-07 09:19 G 46337232.72   46337232.89   46337233.06 0.0089 0.0002

Saturn   122155-03-02 20:50 G 46337318.23   46337318.37   46337318.50 0.0282 0.0150

Neptune 122155-03-05 11:57 G 46337320.83   46337321.00   46337321.17 0.0089 0.0006

Saturn   122155-05-30 14:07 G 46337406.93   46337407.09   46337407.26 0.0282 0.0028

Neptune 122155-06-01 14:36 G 46337408.94   46337409.11   46337409.28 0.0089 0.0015

Saturn   122155-08-27 07:53 G 46337495.73   46337495.83   46337495.94 0.0282 0.0209

Neptune 122155-08-28 17:14 G 46337497.06   46337497.22   46337497.39 0.0089 0.0023

Neptune 122155-11-24 19:53 G 46337585.18   46337585.33   46337585.50 0.0089 0.0032

Neptune 122156-02-20 22:31 G 46337673.30   46337673.44   46337673.60 0.0089 0.0040

Neptune 122156-05-19 01:09 G 46337761.42   46337761.55   46337761.71 0.0089 0.0049

Venus   122156-05-19 13:38 G 46337761.94   46337762.07   46337762.20 0.3649 0.0756

Neptune 122156-08-15 04:02 G 46337849.54   46337849.67   46337849.81 0.0089 0.0057

Neptune 122156-11-11 06:26 G 46337937.67   46337937.77   46337937.90 0.0089 0.0067

Neptune 122157-02-07 09:33 G 46338025.81   46338025.90   46338026.00 0.0089 0.0074

Moon   122157-05-04 20:07 G 46338112.21   46338112.34   46338112.46 0.2652 0.1049

Earth   122157-05-04 21:05 G 46338112.26   46338112.38   46338112.51 0.2653 0.1190 *

Neptune 122157-05-06 11:57 G 46338113.96   46338114.00   46338114.08 0.0089 0.0084

Jupiter 122157-09-23 15:05 G 46338254.01   46338254.13   46338254.25 0.0543 0.0291

Jupiter 122157-12-22 05:43 G 46338343.68   46338343.74   46338343.80 0.0541 0.0479

Mars   122160-09-22 23:43 G 46339349.38   46339349.49   46339349.60 0.1595 0.1130

Earth   122161-10-28 03:33 G 46339749.53   46339749.65   46339749.77 0.2682 0.0520

Moon   122161-10-28 04:31 G 46339749.57   46339749.69   46339749.81 0.2680 0.0334 *

Jupiter 122163-11-04 11:57 G 46340486.88   46340487.00   46340487.13 0.0486 0.0294

Jupiter 122164-02-02 06:12 G 46340576.65   46340576.76   46340576.87 0.0487 0.0360

Uranus   122164-04-26 14:21 G 46340661.02   46340661.10   46340661.19 0.0140 0.0121

Uranus   122164-07-23 19:53 G 46340749.22   46340749.33   46340749.45 0.0140 0.0098

Uranus 122164-10-20 01:38 G 46340837.43 46340837.57 46340837.71 0.0140 0.0074

Uranus 122165-01-16 07:09 G 46340925.65 46340925.80 46340925.96 0.0140 0.0051

Uranus 122165-04-14 12:55 G 46341013.88 46341014.04 46341014.21 0.0140 0.0028

Uranus 122165-07-11 18:41 G 46341102.12 46341102.28 46341102.45 0.0140 0.0005

Uranus 122165-10-08 00:26 G 46341190.36 46341190.52 46341190.69 0.0140 0.0020

Uranus 122166-01-04 06:12 G 46341278.61 46341278.76 46341278.92 0.0140 0.0044

Uranus 122166-04-02 12:12 G 46341366.86 46341367.01 46341367.16 0.0140 0.0068

Uranus 122166-06-29 17:57 G 46341455.13 46341455.25 46341455.38 0.0140 0.0092

Uranus 122166-09-25 23:43 G 46341543.41 46341543.49 46341543.59 0.0140 0.0117

Jupiter 122169-07-12 17:00 G 46342564.15 46342564.21 46342564.27 0.0543 0.0483

Jupiter 122169-10-10 08:21 G 46342653.73 46342653.85 46342653.96 0.0541 0.0300

Saturn 122170-01-03 13:38 G 46342738.95 46342739.07 46342739.20 0.0276 0.0150

Mars 122170-02-13 04:31 G 46342779.54 46342779.69 46342779.85 0.1593 0.0089

Saturn 122170-04-02 03:33 G 46342827.51 46342827.65 46342827.80 0.0276 0.0006

Saturn 122170-06-29 17:14 G 46342916.10 46342916.22 46342916.34 0.0277 0.0155

Moon 122174-10-30 23:29 G 46344500.38 46344500.48 46344500.58 0.2673 0.1403

Earth 122174-10-30 23:43 G 46344500.39 46344500.49 46344500.59 0.2680 0.1466 *

Jupiter 122175-08-23 13:24 G 46344797.00 46344797.06 46344797.12 0.0485 0.0451

Jupiter 122175-11-21 06:55 G 46344886.64 46344886.79 46344886.94 0.0487 0.0191

Mars 122179-07-06 09:48 G 46346209.78 46346209.91 46346210.03 0.1590 0.0957

Jupiter 122181-07-29 10:31 G 46346963.81 46346963.94 46346964.08 0.0542 0.0118

Mars 122182-04-22 11:29 G 46347230.86 46347230.98 46347231.09 0.1945 0.0613

Venus 122183-09-29 04:31 G 46347755.60 46347755.69 46347755.78 0.3731 0.2344

Saturn 122184-07-19 19:38 G 46348050.22 46348050.32 46348050.43 0.0282 0.0215

Saturn 122184-10-16 13:09 G 46348138.89 46348139.05 46348139.21 0.0282 0.0039

Saturn 122185-01-13 06:41 G 46348227.64 46348227.78 46348227.92 0.0282 0.0142

Jupiter 122187-09-09 08:07 G 46349196.68 46349196.84 46349197.01 0.0487 0.0032

Venus 122189-04-13 22:45 G 46349779.34 46349779.45 46349779.56 0.3728 0.0364

Moon 122190-05-03 01:38 G 46350163.44 46350163.57 46350163.69 0.2655 0.0938

Earth 122190-05-03 02:36 G 46350163.48 46350163.61 46350163.74 0.2651 0.0836 *

Mars 122191-09-12 17:29 G 46350661.13 46350661.23 46350661.34 0.1948 0.0869

Jupiter 122193-05-17 11:57 G 46351273.87 46351274.00 46351274.14 0.0542 0.0088

Earth 122194-10-26 12:26 G 46351800.95 46351801.02 46351801.09 0.2684 0.2139

Moon 122194-10-26 12:41 G 46351800.96 46351801.03 46351801.10 0.2677 0.2158 *

Venus 122194-10-28 16:45 G 46351803.10 46351803.20 46351803.30 0.3724 0.1551

Saturn 122199-05-23 15:33 G 46353471.04 46353471.15 46353471.25 0.0277 0.0191

Jupiter 122199-06-28 09:19 G 46353506.73 46353506.89 46353507.04 0.0487 0.0131

Saturn 122199-08-20 05:29 G 46353559.58 46353559.73 46353559.88 0.0277 0.0036

Saturn 122199-11-16 19:09 G 46353648.17 46353648.30 46353648.44 0.0277 0.0117

Saturn 122200-02-13 08:36 G 46353736.83 46353736.86 46353736.90 0.0277 0.0267

Mars 122200-03-25 00:12 G 46353776.42 46353776.51 46353776.60 0.1595 0.1306

Venus 122200-05-14 10:31 G 46353826.90 46353826.94 46353826.99 0.3720 0.3388

Earth 122203-05-07 02:50 G 46354914.52 46354914.62 46354914.73 0.2653 0.1715

Moon 122203-05-07 03:33 G 46354914.54 46354914.65 46354914.75 0.2660 0.1771 *

Jupiter 122205-03-06 13:24 G 46355583.94 46355584.06 46355584.18 0.0542 0.0289

Jupiter 122205-06-04 04:02 G 46355673.61 46355673.67 46355673.74 0.0540 0.0479

Venus 122207-06-11 12:55 G 46356410.91 46356411.04 46356411.16 0.3646 0.1284

Uranus 122207-08-01 13:53 G 46356462.02 46356462.08 46356462.15 0.0138 0.0125

Uranus 122207-10-28 18:12 G 46356550.17 46356550.26 46356550.37 0.0138 0.0105

Moon 122207-10-30 07:53 G 46356551.71 46356551.83 46356551.95 0.2680 0.0177

Earth 122207-10-30 08:50 G 46356551.75 46356551.87 46356551.99 0.2682 0.0114 *

Uranus 122208-01-24 22:45 G 46356638.34 46356638.45 46356638.57 0.0138 0.0084

Uranus 122208-04-22 03:19 G 46356726.50 46356726.64 46356726.77 0.0138 0.0063

Uranus 122208-07-19 07:24 G 46356814.68 46356814.81 46356814.96 0.0138 0.0043

Uranus 122208-10-15 11:57 G 46356902.85 46356903.00 46356903.15 0.0138 0.0022

Uranus 122209-01-11 16:17 G 46356991.03 46356991.18 46356991.33 0.0138 0.0002

Uranus 122209-04-09 20:36 G 46357079.21 46357079.36 46357079.50 0.0138 0.0018

Uranus 122209-07-07 00:41 G 46357167.39 46357167.53 46357167.68 0.0138 0.0039

Mars 122209-08-15 05:00 G 46357206.55 46357206.71 46357206.86 0.1593 0.0236

Uranus 122209-10-03 05:00 G 46357255.58 46357255.71 46357255.85 0.0138 0.0058

Uranus 122209-12-30 09:05 G 46357343.77 46357343.88 46357344.01 0.0138 0.0079

Uranus 122210-03-28 13:09 G 46357431.96 46357432.05 46357432.16 0.0138 0.0099

Uranus 122210-06-24 17:29 G 46357520.16 46357520.23 46357520.31 0.0139 0.0118

Uranus 122210-09-20 21:33 G 46357608.39 46357608.40 46357608.42 0.0139 0.0138

Jupiter 122211-04-17 10:02 G 46357816.80 46357816.92 46357817.05 0.0486 0.0296

Jupiter 122211-07-16 04:17 G 46357906.57 46357906.68 46357906.79 0.0487 0.0358

Venus 122212-12-25 13:38 G 46358434.95 46358435.07 46358435.19 0.3651 0.1735

Saturn 122213-12-07 22:45 G 46358782.37 46358782.45 46358782.53 0.0282 0.0240

Saturn 122214-03-06 16:02 G 46358871.01 46358871.17 46358871.33 0.0282 0.0064

Saturn 122214-06-03 09:33 G 46358959.75 46358959.90 46358960.05 0.0282 0.0116

Jupiter 122216-12-23 14:36 G 46359894.06 46359894.11 46359894.17 0.0543 0.0498

Jupiter 122217-03-23 05:57 G 46359983.64 46359983.75 46359983.87 0.0541 0.0287

Mars 122219-01-05 10:02 G 46360636.79 46360636.92 46360637.06 0.1591 0.0796

Moon 122220-11-01 04:31 G 46361302.60 46361302.69 46361302.77 0.2685 0.1756

Earth 122220-11-01 04:45 G 46361302.62 46361302.70 46361302.79 0.2680 0.1883 *

Mars 122221-10-22 11:29 G 46361657.87 46361657.98 46361658.09 0.1945 0.0787

Jupiter 122223-02-03 11:43 G 46362126.93 46362126.99 46362127.05 0.0485 0.0449

Jupiter 122223-05-04 05:14 G 46362216.57 46362216.72 46362216.87 0.0487 0.0192

Saturn 122228-10-10 17:29 G 46364203.15 46364203.23 46364203.32 0.0276 0.0229

Saturn 122229-01-07 07:38 G 46364291.68 46364291.82 46364291.96 0.0276 0.0074

Jupiter 122229-01-09 08:21 G 46364293.72 46364293.85 46364293.99 0.0542 0.0105

Saturn 122229-04-05 21:19 G 46364380.25 46364380.39 46364380.53 0.0276 0.0078

Saturn 122229-07-03 10:45 G 46364468.88 46364468.95 46364469.04 0.0276 0.0228

Mars 122231-03-14 17:43 G 46365088.13 46365088.24 46365088.35 0.1948 0.0700

Neptune 122233-02-11 06:26 G 46365787.77 46365787.77 46365787.78 0.0088 0.0088

Neptune 122233-05-10 07:53 G 46365875.79 46365875.83 46365875.91 0.0088 0.0082

Neptune 122233-08-06 10:02 G 46365963.85 46365963.92 46365964.01 0.0088 0.0074

Neptune 122233-11-02 11:43 G 46366051.91 46366051.99 46366052.10 0.0088 0.0067

Neptune 122234-01-29 13:38 G 46366139.97 46366140.07 46366140.19 0.0088 0.0060

Neptune 122234-04-27 15:33 G 46366228.04 46366228.15 46366228.28 0.0088 0.0052

Neptune 122234-07-24 17:29 G 46366316.11 46366316.23 46366316.36 0.0088 0.0045

Neptune 122234-10-20 19:09 G 46366404.17 46366404.30 46366404.44 0.0088 0.0038

Neptune 122235-01-16 21:05 G 46366492.24 46366492.38 46366492.52 0.0088 0.0030

Jupiter 122235-02-20 05:57 G 46366526.59 46366526.75 46366526.92 0.0487 0.0027

Neptune 122235-04-14 22:45 G 46366580.32 46366580.45 46366580.60 0.0088 0.0024

Neptune 122235-07-12 00:41 G 46366668.39 46366668.53 46366668.68 0.0088 0.0016

Neptune 122235-10-08 02:21 G 46366756.46 46366756.60 46366756.75 0.0088 0.0010

Neptune 122236-01-04 04:17 G 46366844.53 46366844.68 46366844.83 0.0088 0.0002

Neptune 122236-04-01 05:57 G 46366932.61 46366932.75 46366932.90 0.0088 0.0005

Earth   122236-05-04 08:07 G 46366965.70 46366965.84 46366965.98 0.2651 0.0328

Moon   122236-05-04 09:19 G 46366965.76 46366965.89 46366966.03 0.2652 0.0079 *

Neptune 122236-06-28 07:38 G 46367020.68 46367020.82 46367020.97 0.0088 0.0013

Neptune 122236-09-24 09:19 G 46367108.76 46367108.89 46367109.04 0.0088 0.0020

Neptune 122236-12-21 11:00 G 46367196.83 46367196.96 46367197.11 0.0088 0.0027

Neptune 122237-03-19 12:55 G 46367284.91 46367285.04 46367285.18 0.0088 0.0033

Neptune 122237-06-15 14:36 G 46367372.99 46367373.11 46367373.24 0.0088 0.0040

Neptune 122237-09-11 16:02 G 46367461.06 46367461.17 46367461.31 0.0088 0.0048

Neptune 122237-12-08 18:12 G 46367549.14 46367549.26 46367549.37 0.0088 0.0054

Neptune 122238-03-06 19:38 G 46367637.22 46367637.32 46367637.43 0.0088 0.0061

Neptune 122238-06-02 21:19 G 46367725.31 46367725.39 46367725.49 0.0088 0.0067

Neptune 122238-08-29 23:00 G 46367813.39 46367813.46 46367813.55 0.0088 0.0074

Neptune 122238-11-26 00:26 G 46367901.49 46367901.52 46367901.60 0.0088 0.0082

Neptune 122239-02-22 02:36 G 46367989.60 46367989.61 46367989.62 0.0088 0.0087

Mars   122239-09-24 00:41 G 46368203.47 46368203.53 46368203.59 0.1595 0.1472

Venus   122240-05-06 02:36 G 46368428.51 46368428.61 46368428.71 0.3730 0.1697

Moon   122240-10-27 17:00 G 46368603.12 46368603.21 46368603.29 0.2688 0.1897

Earth   122240-10-27 17:43 G 46368603.14 46368603.24 46368603.33 0.2684 0.1706 *

Jupiter 122240-10-28 10:45 G 46368603.81 46368603.95 46368604.09 0.0542 0.0082

Saturn   122243-07-24 14:50 G 46369602.98 46369603.12 46369603.27 0.0282 0.0130

Saturn   122243-10-21 08:21 G 46369691.69 46369691.85 46369692.01 0.0282 0.0049

Saturn 122244-01-18 02:07 G 46369780.50 46369780.59 46369780.69 0.0282 0.0230

Venus 122245-11-19 20:50 G 46370452.26 46370452.37 46370452.48 0.3727 0.0279

Jupiter 122246-12-09 07:24 G 46370836.65 46370836.81 46370836.96 0.0486 0.0131

Uranus 122248-02-19 16:31 G 46371274.16 46371274.19 46371274.24 0.0140 0.0135

Uranus 122248-05-17 22:02 G 46371362.33 46371362.42 46371362.53 0.0140 0.0113

Uranus 122248-08-14 03:33 G 46371450.54 46371450.65 46371450.79 0.0140 0.0090

Uranus 122248-11-10 09:19 G 46371538.75 46371538.89 46371539.04 0.0140 0.0066

Uranus 122249-02-06 15:05 G 46371626.97 46371627.13 46371627.29 0.0140 0.0042

Mars 122249-02-13 05:29 G 46371633.58 46371633.73 46371633.88 0.1593 0.0409

Uranus 122249-05-05 20:50 G 46371715.20 46371715.37 46371715.53 0.0140 0.0019

Moon 122249-05-07 08:50 G 46371716.79 46371716.87 46371716.94 0.2647 0.2192

Earth 122249-05-07 08:36 G 46371716.79 46371716.86 46371716.93 0.2654 0.2237 *

Uranus 122249-08-02 02:36 G 46371803.44 46371803.61 46371803.77 0.0140 0.0005

Uranus 122249-10-29 08:21 G 46371891.69 46371891.85 46371892.01 0.0140 0.0029

Uranus 122250-01-25 13:53 G 46371979.94 46371980.08 46371980.25 0.0140 0.0053

Uranus 122250-04-23 19:53 G 46372068.19 46372068.33 46372068.48 0.0140 0.0077

Uranus 122250-07-21 01:38 G 46372156.46 46372156.57 46372156.70 0.0140 0.0101

Uranus 122250-10-17 07:38 G 46372244.75 46372244.82 46372244.90 0.0140 0.0125

Venus 122251-06-05 14:50 G 46372476.03 46372476.12 46372476.21 0.3723 0.2162

Jupiter 122252-08-16 12:12 G 46372913.89 46372914.01 46372914.13 0.0542 0.0284

Jupiter 122252-11-14 02:50 G 46373003.56 46373003.62 46373003.68 0.0540 0.0484

Earth 122253-10-30 13:53 G 46373353.96 46373354.08 46373354.20 0.2681 0.0318

Moon 122253-10-30 14:07 G 46373353.98 46373354.09 46373354.21 0.2687 0.0452 *

Saturn 122258-02-27 18:41 G 46374935.28 46374935.28 46374935.29 0.0277 0.0276

Saturn 122258-05-27 08:50 G 46375023.74 46375023.87 46375024.01 0.0277 0.0120

Venus 122258-07-02 12:26 G 46375059.96 46375060.02 46375060.08 0.3643 0.3223

Mars 122258-07-06 10:31 G 46375063.80 46375063.94 46375064.08 0.1590 0.0631

Saturn 122258-08-23 22:45 G 46375112.31 46375112.45 46375112.60 0.0277 0.0034

Jupiter 122258-09-27 08:36 G 46375146.73 46375146.86 46375146.99 0.0486 0.0291

Saturn 122258-11-20 12:26 G 46375200.91 46375201.02 46375201.13 0.0277 0.0185

Jupiter 122258-12-26 02:36 G 46375236.51 46375236.61 46375236.72 0.0488 0.0364

Mars 122261-04-22 11:29 G 46376084.88 46376084.98 46376085.09 0.1945 0.0931

Venus 122264-01-16 12:41 G 46377083.90 46377084.03 46377084.17 0.3648 0.0366

Jupiter 122264-06-04 13:24 G 46377224.00 46377224.06 46377224.12 0.0543 0.0490

Jupiter 122264-09-02 04:45 G 46377313.58 46377313.70 46377313.81 0.0541 0.0292

Earth 122266-11-02 10:02 G 46378104.86 46378104.92 46378104.98 0.2679 0.2285

Moon 122266-11-02 10:45 G 46378104.90 46378104.95 46378105.01 0.2678 0.2347 *

Earth 122269-05-02 13:38 G 46379017.01 46379017.07 46379017.14 0.2649 0.2289

Moon 122269-05-02 14:21 G 46379017.03 46379017.10 46379017.17 0.2643 0.2276 *

Venus 122269-08-01 13:38 G 46379107.98 46379108.07 46379108.16 0.3652 0.2724

Jupiter 122270-07-16 09:48 G 46379456.85 46379456.91 46379456.97 0.0485 0.0450

Mars 122270-09-12 17:43 G 46379515.13 46379515.24 46379515.36 0.1949 0.0535

Jupiter 122270-10-14 03:19 G 46379546.49 46379546.64 46379546.79 0.0487 0.0192

Saturn 122272-12-10 17:29 G 46380335.10 46380335.23 46380335.37 0.0282 0.0158

Saturn 122273-03-09 11:00 G 46380423.80 46380423.96 46380424.12 0.0282 0.0020

Saturn 122273-06-06 04:45 G 46380512.59 46380512.70 46380512.81 0.0282 0.0201

Pluto 122276-05-15 05:29 G 46381586.68 46381586.73 46381586.81 0.0058 0.0055

Jupiter 122276-06-21 06:12 G 46381623.62 46381623.76 46381623.90 0.0542 0.0093

Pluto 122276-08-11 06:41 G 46381674.68 46381674.78 46381674.91 0.0058 0.0047

Pluto 122276-11-07 07:53 G 46381762.70 46381762.83 46381763.00 0.0059 0.0039

Pluto 122277-02-03 09:19 G 46381850.74 46381850.89 46381851.07 0.0059 0.0031

Pluto 122277-05-02 10:31 G 46381938.78 46381938.94 46381939.14 0.0059 0.0023

Pluto 122277-07-29 12:12 G 46382026.82 46382027.01 46382027.21 0.0059 0.0014

Pluto 122277-10-25 13:38 G 46382114.87 46382115.07 46382115.27 0.0059 0.0006

Pluto 122278-01-21 14:50 G 46382202.93 46382203.12 46382203.32 0.0059 0.0003

Pluto 122278-04-19 16:02 G 46382290.99 46382291.17 46382291.37 0.0059 0.0011

Pluto 122278-07-16 17:29 G 46382379.05 46382379.23 46382379.42 0.0059 0.0019

Pluto 122278-10-12 18:41 G 46382467.12 46382467.28 46382467.47 0.0059 0.0027

Pluto 122279-01-08 19:38 G 46382555.19 46382555.32 46382555.50 0.0059 0.0036

Pluto 122279-04-06 21:05 G 46382643.27 46382643.38 46382643.53 0.0059 0.0045

Pluto 122279-07-03 22:45 G 46382731.37 46382731.45 46382731.55 0.0059 0.0053

Moon 122282-05-05 12:55 G 46383767.90 46383768.04 46383768.18 0.2648 0.0135

Earth 122282-05-05 13:53 G 46383767.94 46383768.08 46383768.22 0.2652 0.0191 *

Jupiter 122282-08-02 04:17 G 46383856.52 46383856.68 46383856.85 0.0486 0.0033

Earth 122286-10-28 22:45 G 46385405.34 46385405.45 46385405.56 0.2683 0.1281

Moon 122286-10-28 23:43 G 46385405.38 46385405.49 46385405.60 0.2685 0.1186 *

Saturn 122287-10-14 11:00 G 46385755.85 46385755.96 46385756.09 0.0276 0.0156

Saturn 122288-01-11 01:09 G 46385844.40 46385844.55 46385844.70 0.0276 0.0004

Saturn 122288-04-08 14:50 G 46385932.99 46385933.12 46385933.24 0.0276 0.0149

Jupiter 122288-04-09 08:21 G 46385933.71 46385933.85 46385933.99 0.0543 0.0094

Mars 122288-08-14 05:57 G 46386060.60 46386060.75 46386060.89 0.1593 0.0575

Venus 122291-05-28 06:26 G 46387077.71 46387077.77 46387077.84 0.3733 0.3064

Uranus 122291-08-21 21:19 G 46387163.33 46387163.39 46387163.48 0.0138 0.0118

Uranus 122291-11-18 01:53 G 46387251.48 46387251.58 46387251.70 0.0138 0.0097

Uranus 122292-02-14 06:26 G 46387339.65 46387339.77 46387339.90 0.0138 0.0076

Uranus 122292-05-12 10:45 G 46387427.82 46387427.95 46387428.09 0.0138 0.0056

Uranus 122292-08-08 15:19 G 46387515.99 46387516.14 46387516.28 0.0138 0.0035

Uranus 122292-11-04 19:38 G 46387604.17 46387604.32 46387604.47 0.0138 0.0015

Uranus 122293-01-31 23:57 G 46387692.35 46387692.50 46387692.65 0.0138 0.0006

Uranus 122293-04-30 04:02 G 46387780.53 46387780.67 46387780.82 0.0138 0.0026

Uranus 122293-07-27 08:21 G 46387868.71 46387868.85 46387868.99 0.0138 0.0046

Uranus 122293-10-23 12:41 G 46387956.90 46387957.03 46387957.16 0.0138 0.0066

Uranus 122294-01-19 16:45 G 46388045.09 46388045.20 46388045.32 0.0138 0.0086

Uranus 122294-04-17 20:50 G 46388133.29 46388133.37 46388133.47 0.0138 0.0106

Jupiter 122294-05-21 05:29 G 46388166.57 46388166.73 46388166.88 0.0486 0.0133

Uranus 122294-07-15 00:55 G 46388221.49 46388221.54 46388221.61 0.0138 0.0126

Moon 122295-05-08 13:24 G 46388519.02 46388519.06 46388519.10 0.2657 0.2525

Venus 122296-12-11 00:55 G 46389101.43 46389101.54 46389101.65 0.3729 0.1052

Mars 122298-01-04 11:00 G 46389490.81 46389490.96 46389491.11 0.1591 0.0465

Earth 122299-10-31 18:55 G 46390156.18 46390156.29 46390156.41 0.2681 0.0740

Moon 122299-10-31 19:09 G 46390156.19 46390156.30 46390156.42 0.2674 0.0829 *

Jupiter 122300-01-27 10:31 G 46390243.82 46390243.94 46390244.06 0.0543 0.0282

Jupiter 122300-04-27 01:24 G 46390333.51 46390333.56 46390333.62 0.0541 0.0490

Mars 122300-10-22 11:43 G 46390511.89 46390511.99 46390512.09 0.1945 0.1100

Saturn 122302-04-30 16:17 G 46391067.09 46391067.18 46391067.28 0.0282 0.0225

Venus 122302-06-27 18:55 G 46391125.19 46391125.29 46391125.40 0.3726 0.0908

Saturn 122302-07-28 09:33 G 46391155.74 46391155.90 46391156.06 0.0282 0.0049

Saturn 122302-10-25 03:19 G 46391244.49 46391244.64 46391244.78 0.0282 0.0131

Jupiter 122306-03-10 06:55 G 46392476.66 46392476.79 46392476.92 0.0486 0.0288

Jupiter 122306-06-08 00:55 G 46392566.43 46392566.54 46392566.65 0.0487 0.0365

Mars 122307-05-28 16:17 G 46392921.13 46392921.18 46392921.23 0.1589 0.1480

Venus 122308-01-11 12:55 G 46393148.97 46393149.04 46393149.11 0.3722 0.2762

Mars 122310-03-14 17:57 G 46393942.13 46393942.25 46393942.37 0.1948 0.0369

Jupiter 122311-11-16 11:57 G 46394553.94 46394554.00 46394554.07 0.0543 0.0484

Jupiter 122312-02-14 03:19 G 46394643.53 46394643.64 46394643.76 0.0541 0.0300

Moon 122312-11-03 14:21 G 46394907.06 46394907.10 46394907.14 0.2677 0.2492

Venus 122315-02-07 12:12 G 46395732.91 46395733.01 46395733.11 0.3645 0.2338

Moon 122315-05-04 18:12 G 46395819.18 46395819.26 46395819.35 0.2652 0.2025

Earth 122315-05-04 19:24 G 46395819.21 46395819.31 46395819.41 0.2650 0.1783 *

Saturn 122317-03-03 11:57 G 46396487.91 46396488.00 46396488.10 0.0277 0.0206

Neptune 122317-04-07 05:14 G 46396522.67 46396522.72 46396522.80 0.0089 0.0082

Saturn 122317-05-31 02:07 G 46396576.44 46396576.59 46396576.73 0.0277 0.0051

Neptune 122317-07-04 07:53 G 46396610.75 46396610.83 46396610.93 0.0089 0.0074

Saturn 122317-08-27 15:48 G 46396665.03 46396665.16 46396665.30 0.0277 0.0102

Neptune 122317-09-30 10:17 G 46396698.84 46396698.93 46396699.06 0.0089 0.0066

Saturn 122317-11-24 05:14 G 46396753.67 46396753.72 46396753.79 0.0277 0.0251

Jupiter 122317-12-27 08:21 G 46396786.79 46396786.85 46396786.91 0.0486 0.0445

Neptune 122317-12-27 12:55 G 46396786.93 46396787.04 46396787.18 0.0089 0.0058

Neptune 122318-03-25 15:48 G 46396875.02 46396875.16 46396875.30 0.0089 0.0049

Jupiter 122318-03-27 01:53 G 46396876.43 46396876.58 46396876.73 0.0487 0.0199

Neptune 122318-06-21 18:12 G 46396963.12 46396963.26 46396963.42 0.0089 0.0041

Neptune 122318-09-17 20:50 G 46397051.22 46397051.37 46397051.53 0.0089 0.0033

Neptune 122318-12-14 23:29 G 46397139.32 46397139.48 46397139.65 0.0089 0.0025

Neptune 122319-03-13 02:07 G 46397227.43 46397227.59 46397227.76 0.0089 0.0017

Neptune 122319-06-09 04:45 G 46397315.53 46397315.70 46397315.87 0.0089 0.0008

Mars 122319-08-04 23:43 G 46397372.47 46397372.49 46397372.52 0.1951 0.1895

Neptune 122319-09-05 07:24 G 46397403.64 46397403.81 46397403.98 0.0089 0.0001

Neptune 122319-12-02 10:02 G 46397491.75 46397491.92 46397492.09 0.0089 0.0009

Neptune 122320-02-28 12:41 G 46397579.86 46397580.03 46397580.20 0.0089 0.0017

Neptune 122320-05-26 15:19 G 46397667.98 46397668.14 46397668.31 0.0089 0.0025

Neptune 122320-08-22 17:57 G 46397756.10 46397756.25 46397756.41 0.0089 0.0034

Venus 122320-08-23 12:41 G 46397756.90 46397757.03 46397757.16 0.3649 0.0608

Neptune 122320-11-18 20:36 G 46397844.22 46397844.36 46397844.52 0.0089 0.0042

Neptune 122321-02-14 23:14 G 46397932.34 46397932.47 46397932.62 0.0089 0.0051

Neptune 122321-05-14 02:07 G 46398020.47 46398020.59 46398020.72 0.0089 0.0059

Neptune 122321-08-10 04:31 G 46398108.60 46398108.69 46398108.82 0.0089 0.0068

Neptune 122321-11-06 07:38 G 46398196.73 46398196.82 46398196.91 0.0089 0.0077

Neptune 122322-02-02 10:02 G 46398284.89 46398284.92 46398284.98 0.0089 0.0085

Jupiter 122323-12-03 05:14 G 46398953.58 46398953.72 46398953.86 0.0541 0.0105

Mars 122328-02-14 06:12 G 46400487.63 46400487.76 46400487.90 0.1593 0.0738

Earth 122328-05-06 19:38 G 46400570.18 46400570.32 46400570.45 0.2652 0.0707

Moon 122328-05-06 19:38 G 46400570.19 46400570.32 46400570.45 0.2658 0.0787 *

Jupiter 122330-01-13 02:36 G 46401186.45 46401186.61 46401186.78 0.0486 0.0036

Saturn 122331-09-17 18:41 G 46401799.22 46401799.28 46401799.34 0.0283 0.0258

Saturn 122331-12-15 11:43 G 46401887.84 46401887.99 46401888.15 0.0282 0.0082

Uranus 122332-03-12 00:26 G 46401975.46 46401975.52 46401975.59 0.0140 0.0127

Saturn 122332-03-13 05:14 G 46401976.57 46401976.72 46401976.88 0.0282 0.0098

Uranus 122332-06-08 05:57 G 46402063.65 46402063.75 46402063.87 0.0140 0.0104

Saturn 122332-06-09 23:14 G 46402065.46 46402065.47 46402065.49 0.0282 0.0280

Uranus 122332-09-04 11:43 G 46402151.86 46402151.99 46402152.12 0.0140 0.0080

Moon 122332-10-30 03:19 G 46402207.53 46402207.64 46402207.75 0.2678 0.0987

Earth 122332-10-30 04:02 G 46402207.55 46402207.67 46402207.78 0.2683 0.0848 *

Uranus 122332-12-01 17:14 G 46402240.07 46402240.22 46402240.37 0.0140 0.0057

Uranus 122333-02-27 22:45 G 46402328.30 46402328.45 46402328.62 0.0140 0.0035

Uranus 122333-05-27 04:45 G 46402416.53 46402416.70 46402416.86 0.0140 0.0010

Uranus 122333-08-23 10:17 G 46402504.77 46402504.93 46402505.10 0.0140 0.0014

Uranus 122333-11-19 16:02 G 46402593.02 46402593.17 46402593.34 0.0140 0.0038

Uranus 122334-02-15 21:48 G 46402681.27 46402681.41 46402681.57 0.0140 0.0062

Uranus 122334-05-15 03:33 G 46402769.53 46402769.65 46402769.79 0.0140 0.0086

Uranus 122334-08-11 09:33 G 46402857.80 46402857.90 46402858.01 0.0140 0.0110

Uranus 122334-11-07 15:33 G 46402946.11 46402946.15 46402946.20 0.0140 0.0134

Jupiter 122335-09-21 06:26 G 46403263.63 46403263.77 46403263.91 0.0543 0.0102

Mars 122337-07-06 11:29 G 46403917.83 46403917.98 46403918.13 0.1591 0.0306

Mars 122340-04-22 11:57 G 46404938.91 46404939.00 46404939.09 0.1945 0.1277

Jupiter 122341-11-01 04:02 G 46405496.51 46405496.67 46405496.83 0.0486 0.0126

Moon 122345-11-01 23:29 G 46406958.37 46406958.48 46406958.59 0.2685 0.1071

Earth 122345-11-02 00:12 G 46406958.40 46406958.51 46406958.62 0.2681 0.1155 *

Saturn 122346-07-21 14:21 G 46407220.03 46407220.10 46407220.17 0.0276 0.0241

Saturn 122346-10-18 04:31 G 46407308.55 46407308.69 46407308.83 0.0276 0.0086

Mars 122346-11-26 16:45 G 46407348.12 46407348.20 46407348.28 0.1589 0.1320

Saturn 122347-01-14 18:12 G 46407397.12 46407397.26 46407397.41 0.0276 0.0066

Saturn 122347-04-13 07:53 G 46407485.74 46407485.83 46407485.92 0.0276 0.0215

Jupiter 122347-07-10 08:21 G 46407573.74 46407573.85 46407573.97 0.0543 0.0293

Jupiter 122347-10-07 23:29 G 46407663.42 46407663.48 46407663.54 0.0541 0.0481

Venus 122348-01-03 04:45 G 46407750.61 46407750.70 46407750.78 0.3732 0.2405

Mars 122349-09-12 17:57 G 46408369.13 46408369.25 46408369.37 0.1948 0.0211

Venus 122353-07-18 23:00 G 46409774.35 46409774.46 46409774.57 0.3729 0.0416

Jupiter 122353-08-20 05:14 G 46409806.59 46409806.72 46409806.85 0.0486 0.0286

Jupiter 122353-11-17 23:00 G 46409896.36 46409896.46 46409896.57 0.0487 0.0365

Venus 122359-02-01 17:14 G 46411798.11 46411798.22 46411798.32 0.3725 0.1520

Mars 122359-02-03 00:12 G 46411799.45 46411799.51 46411799.56 0.1951 0.1706

Jupiter 122359-04-28 10:31 G 46411883.88 46411883.94 46411884.01 0.0543 0.0482

Jupiter 122359-07-27 01:53 G 46411973.47 46411973.58 46411973.70 0.0541 0.0305

Saturn 122361-05-03 10:31 G 46412619.81 46412619.94 46412620.08 0.0282 0.0149

Earth 122361-05-05 00:55 G 46412621.42 46412621.54 46412621.66 0.2650 0.1292

Moon 122361-05-05 02:07 G 46412621.46 46412621.59 46412621.71 0.2653 0.1167 *

Saturn 122361-07-31 04:02 G 46412708.51 46412708.67 46412708.83 0.0282 0.0029

Saturn 122361-10-27 21:33 G 46412797.30 46412797.40 46412797.51 0.0282 0.0210

Venus 122364-08-17 11:00 G 46413821.91 46413821.96 46413822.00 0.3721 0.3350

Jupiter 122365-06-08 06:55 G 46414116.72 46414116.79 46414116.85 0.0485 0.0439

Jupiter 122365-09-06 00:12 G 46414206.36 46414206.51 46414206.66 0.0487 0.0203

Moon 122365-10-28 11:57 G 46414258.98 46414259.00 46414259.01 0.2688 0.2657

Earth 122365-10-28 12:41 G 46414258.99 46414259.03 46414259.08 0.2685 0.2483 *

Mars 122367-08-15 06:55 G 46414914.66 46414914.79 46414914.92 0.1593 0.0911

Jupiter 122371-05-15 04:02 G 46416283.53 46416283.67 46416283.81 0.0542 0.0113

Venus 122371-09-14 11:57 G 46416405.88 46416406.00 46416406.12 0.3646 0.1419

Pluto 122374-04-14 05:57 G 46417348.71 46417348.75 46417348.81 0.0085 0.0078

Earth 122374-05-08 01:09 G 46417372.43 46417372.55 46417372.68 0.2652 0.1221

Moon 122374-05-08 01:53 G 46417372.46 46417372.58 46417372.70 0.2646 0.1363 *

Pluto 122374-07-11 07:24 G 46417436.72 46417436.81 46417436.91 0.0085 0.0060

Pluto 122374-10-07 08:36 G 46417524.75 46417524.86 46417524.98 0.0085 0.0043

Pluto 122375-01-03 10:02 G 46417612.80 46417612.92 46417613.05 0.0085 0.0026

Pluto 122375-04-01 11:14 G 46417700.84 46417700.97 46417701.11 0.0085 0.0009

Uranus 122375-06-16 00:26 G 46417776.49 46417776.52 46417776.57 0.0138 0.0132

Pluto 122375-06-28 12:41 G 46417788.89 46417789.03 46417789.16 0.0085 0.0008

Uranus 122375-09-12 05:00 G 46417864.63 46417864.71 46417864.80 0.0138 0.0111

Pluto 122375-09-24 13:38 G 46417876.95 46417877.07 46417877.20 0.0085 0.0025

Uranus 122375-12-09 09:19 G 46417952.79 46417952.89 46417953.01 0.0138 0.0091

Pluto 122375-12-21 15:05 G 46417965.01 46417965.13 46417965.24 0.0085 0.0041

Saturn 122376-03-06 05:00 G 46418040.58 46418040.71 46418040.84 0.0277 0.0140

Uranus 122376-03-06 13:53 G 46418040.95 46418041.08 46418041.21 0.0138 0.0070

Pluto 122376-03-18 16:02 G 46418053.09 46418053.17 46418053.28 0.0084 0.0058

Uranus 122376-06-02 18:26 G 46418129.13 46418129.27 46418129.41 0.0138 0.0049

Saturn 122376-06-02 18:55 G 46418129.14 46418129.29 46418129.44 0.0277 0.0014 *

Pluto 122376-06-14 17:14 G 46418141.17 46418141.22 46418141.29 0.0084 0.0074

Uranus 122376-08-29 22:45 G 46418217.30 46418217.45 46418217.59 0.0138 0.0029

Saturn 122376-08-30 08:36 G 46418217.74 46418217.86 46418217.98 0.0277 0.0165

Uranus 122376-11-26 03:05 G 46418305.48 46418305.63 46418305.78 0.0138 0.0009

Mars 122377-01-04 11:57 G 46418344.84 46418345.00 46418345.15 0.1591 0.0148

Uranus 122377-02-22 07:24 G 46418393.66 46418393.81 46418393.96 0.0138 0.0012

Venus 122377-03-30 12:41 G 46418429.91 46418430.03 46418430.15 0.3650 0.1570

Uranus 122377-05-21 11:29 G 46418481.84 46418481.98 46418482.13 0.0138 0.0032

Jupiter 122377-06-25 01:24 G 46418516.39 46418516.56 46418516.72 0.0487 0.0041

Uranus 122377-08-17 15:48 G 46418570.03 46418570.16 46418570.30 0.0138 0.0052

Uranus 122377-11-13 19:53 G 46418658.21 46418658.33 46418658.46 0.0138 0.0072

Uranus 122378-02-10 00:12 G 46418746.40 46418746.51 46418746.62 0.0138 0.0092

Uranus 122378-05-09 04:17 G 46418834.60 46418834.68 46418834.77 0.0138 0.0112

Uranus 122378-08-05 08:21 G 46418922.82 46418922.85 46418922.90 0.0138 0.0131

Moon 122378-10-31 09:05 G 46419009.76 46419009.88 46419010.00 0.2689 0.0411

Earth 122378-10-31 09:05 G 46419009.76 46419009.88 46419010.00 0.2683 0.0433 *

Mars 122379-10-22 11:43 G 46419365.91 46419365.99 46419366.07 0.1945 0.1416

Jupiter 122383-03-03 05:43 G 46420593.60 46420593.74 46420593.88 0.0542 0.0085

Mars 122386-05-27 17:00 G 46421775.11 46421775.21 46421775.32 0.1589 0.1166

Mars 122389-03-13 18:12 G 46422796.14 46422796.26 46422796.38 0.1948 0.0032

Jupiter 122389-04-13 02:21 G 46422826.45 46422826.60 46422826.76 0.0486 0.0122

Saturn 122390-09-20 12:12 G 46423351.89 46423352.01 46423352.13 0.0283 0.0189

Saturn 122390-12-18 05:29 G 46423440.57 46423440.73 46423440.89 0.0283 0.0012

Saturn 122391-03-16 23:00 G 46423529.34 46423529.46 46423529.60 0.0282 0.0170

Earth 122391-11-03 05:29 G 46423760.63 46423760.73 46423760.82 0.2681 0.1570

Moon 122391-11-03 06:12 G 46423760.67 46423760.76 46423760.85 0.2682 0.1692 *

Jupiter 122394-12-20 06:41 G 46424903.66 46424903.78 46424903.89 0.0543 0.0297

Jupiter 122395-03-19 21:33 G 46424993.34 46424993.40 46424993.46 0.0541 0.0477

Neptune 122397-11-09 05:00 G 46425958.69 46425958.71 46425958.75 0.0088 0.0087

Neptune 122398-02-05 06:41 G 46426046.73 46426046.78 46426046.86 0.0088 0.0080

Neptune 122398-05-04 08:50 G 46426134.79 46426134.87 46426134.96 0.0088 0.0072

Neptune 122398-07-31 10:45 G 46426222.85 46426222.95 46426223.06 0.0088 0.0064

Mars 122398-08-04 00:12 G 46426226.44 46426226.51 46426226.58 0.1950 0.1540

Neptune 122398-10-27 12:26 G 46426310.92 46426311.02 46426311.14 0.0088 0.0057

Neptune 122399-01-23 14:36 G 46426398.99 46426399.11 46426399.23 0.0088 0.0050

Neptune 122399-04-21 16:17 G 46426487.05 46426487.18 46426487.31 0.0088 0.0043

Neptune 122399-07-18 18:12 G 46426575.12 46426575.26 46426575.40 0.0088 0.0035

Neptune 122399-10-14 19:53 G 46426663.19 46426663.33 46426663.48 0.0088 0.0028

Neptune 122400-01-10 21:48 G 46426751.27 46426751.41 46426751.55 0.0088 0.0021

Neptune 122400-04-07 23:29 G 46426839.34 46426839.48 46426839.63 0.0088 0.0014

Neptune 122400-07-05 01:24 G 46426927.41 46426927.56 46426927.71 0.0088 0.0007

Neptune 122400-10-01 03:05 G 46427015.48 46427015.63 46427015.78 0.0088 0.0002

Neptune 122400-12-28 05:00 G 46427103.56 46427103.71 46427103.85 0.0088 0.0008

Jupiter 122401-01-30 04:02 G 46427136.54 46427136.67 46427136.80 0.0485 0.0276

Neptune 122401-03-26 06:41 G 46427191.63 46427191.78 46427191.92 0.0088 0.0014

Jupiter 122401-04-29 21:48 G 46427226.31 46427226.41 46427226.52 0.0487 0.0375

Neptune 122401-06-22 08:21 G 46427279.71 46427279.85 46427279.99 0.0088 0.0021

Neptune 122401-09-18 10:02 G 46427367.79 46427367.92 46427368.06 0.0088 0.0028

Neptune 122401-12-15 11:43 G 46427455.86 46427455.99 46427456.13 0.0088 0.0035

Neptune 122402-03-13 13:24 G 46427543.94 46427544.06 46427544.20 0.0088 0.0042

Neptune 122402-06-09 15:05 G 46427632.02 46427632.13 46427632.26 0.0088 0.0049

Neptune 122402-09-05 16:45 G 46427720.10 46427720.20 46427720.32 0.0088 0.0056

Neptune 122402-12-02 18:41 G 46427808.18 46427808.28 46427808.39 0.0088 0.0063

Neptune 122403-02-28 20:21 G 46427896.27 46427896.35 46427896.44 0.0088 0.0069

Neptune 122403-05-27 22:02 G 46427984.35 46427984.42 46427984.50 0.0088 0.0076

Neptune 122403-08-23 23:29 G 46428072.45 46428072.48 46428072.54 0.0088 0.0083

Venus 122404-08-09 02:50 G 46428423.52 46428423.62 46428423.72 0.3731 0.1762

Saturn 122405-07-24 07:38 G 46428772.70 46428772.82 46428772.93 0.0276 0.0173

Saturn 122405-10-20 21:33 G 46428861.25 46428861.40 46428861.55 0.0276 0.0020

Saturn 122406-01-17 11:14 G 46428949.84 46428949.97 46428950.10 0.0276 0.0131

Jupiter 122406-10-08 08:21 G 46429213.79 46429213.85 46429213.91 0.0544 0.0492

Jupiter 122407-01-05 23:57 G 46429303.38 46429303.50 46429303.62 0.0542 0.0296

Mars 122407-02-13 07:24 G 46429341.69 46429341.81 46429341.92 0.1593 0.1079

Moon 122407-05-06 05:57 G 46429423.62 46429423.75 46429423.88 0.2645 0.0878

Earth 122407-05-06 06:41 G 46429423.65 46429423.78 46429423.91 0.2650 0.0782 *

Venus 122410-02-22 21:05 G 46430447.27 46430447.38 46430447.50 0.3728 0.0261

Earth 122411-10-29 17:57 G 46431061.17 46431061.25 46431061.33 0.2685 0.2049

Moon 122411-10-29 18:41 G 46431061.20 46431061.28 46431061.36 0.2689 0.1995 *

Jupiter 122412-11-18 05:14 G 46431446.65 46431446.72 46431446.79 0.0485 0.0434

Jupiter 122413-02-15 22:31 G 46431536.30 46431536.44 46431536.59 0.0487 0.0207

Venus 122415-09-08 15:05 G 46432471.04 46432471.13 46432471.22 0.3724 0.2113

Uranus 122416-04-01 08:07 G 46432676.76 46432676.84 46432676.94 0.0140 0.0119

Uranus 122416-06-28 13:38 G 46432764.96 46432765.07 46432765.20 0.0140 0.0096

Mars 122416-07-05 12:26 G 46432771.86 46432772.02 46432772.17 0.1591 0.0051

Uranus 122416-09-24 19:24 G 46432853.17 46432853.31 46432853.45 0.0140 0.0072

Uranus 122416-12-22 00:55 G 46432941.39 46432941.54 46432941.70 0.0140 0.0049

Uranus 122417-03-20 06:41 G 46433029.62 46433029.78 46433029.95 0.0140 0.0025

Uranus 122417-06-16 12:26 G 46433117.85 46433118.02 46433118.19 0.0140 0.0002

Uranus 122417-09-12 18:12 G 46433206.09 46433206.26 46433206.42 0.0140 0.0022

Uranus 122417-12-09 23:43 G 46433294.34 46433294.49 46433294.66 0.0140 0.0046

Uranus 122418-03-08 05:43 G 46433382.60 46433382.74 46433382.89 0.0140 0.0070

Uranus 122418-06-04 11:29 G 46433470.86 46433470.98 46433471.11 0.0140 0.0094

Uranus 122418-08-31 17:29 G 46433559.14 46433559.23 46433559.32 0.0140 0.0118

Jupiter 122418-10-25 02:36 G 46433613.47 46433613.61 46433613.74 0.0542 0.0118

Mars 122419-04-22 11:57 G 46433792.93 46433793.00 46433793.07 0.1944 0.1593

Saturn 122420-02-07 11:00 G 46434083.90 46434083.96 46434084.03 0.0283 0.0254

Saturn 122420-05-06 04:17 G 46434172.52 46434172.68 46434172.83 0.0283 0.0079

Moon 122420-05-08 05:43 G 46434174.63 46434174.74 46434174.85 0.2654 0.1551

Earth 122420-05-08 06:55 G 46434174.69 46434174.79 46434174.89 0.2653 0.1741 *

Saturn 122420-08-02 21:48 G 46434261.26 46434261.41 46434261.56 0.0282 0.0101

Venus 122422-10-05 11:43 G 46435054.94 46435054.99 46435055.04 0.3643 0.3347

Earth 122424-10-31 14:21 G 46435811.98 46435812.10 46435812.22 0.2683 0.0045

Moon 122424-10-31 14:50 G 46435812.00 46435812.12 46435812.24 0.2677 0.0163 *

Jupiter 122424-12-04 23:57 G 46435846.34 46435846.50 46435846.66 0.0486 0.0048

Mars 122425-11-25 17:43 G 46436202.12 46436202.24 46436202.36 0.1589 0.0994

Venus 122428-04-20 11:57 G 46437078.86 46437079.00 46437079.13 0.3647 0.0504

Mars 122428-09-11 18:12 G 46437223.14 46437223.26 46437223.38 0.1947 0.0129

Jupiter 122430-08-13 04:31 G 46437923.55 46437923.69 46437923.83 0.0542 0.0075

Venus 122433-11-04 12:41 G 46439102.93 46439103.03 46439103.12 0.3651 0.2554

Saturn 122434-12-11 07:38 G 46439504.74 46439504.82 46439504.90 0.0276 0.0232

Saturn 122435-03-09 21:33 G 46439593.26 46439593.40 46439593.55 0.0276 0.0078

Saturn 122435-06-06 11:29 G 46439681.84 46439681.98 46439682.12 0.0277 0.0076

Saturn 122435-09-03 01:09 G 46439770.46 46439770.55 46439770.63 0.0277 0.0225

Jupiter 122436-09-23 01:09 G 46440156.39 46440156.55 46440156.71 0.0486 0.0113

Moon 122437-11-03 09:48 G 46440562.83 46440562.91 46440563.00 0.2676 0.1829

Earth 122437-11-03 10:31 G 46440562.86 46440562.94 46440563.02 0.2680 0.1980 *

Mars 122438-02-02 00:12 G 46440653.43 46440653.51 46440653.60 0.1951 0.1381

Jupiter 122442-06-01 05:57 G 46442233.63 46442233.75 46442233.88 0.0543 0.0275

Jupiter 122442-08-29 20:50 G 46442323.32 46442323.37 46442323.43 0.0541 0.0497

Mars 122446-08-14 07:38 G 46443768.72 46443768.82 46443768.92 0.1593 0.1238

Jupiter 122448-07-12 02:36 G 46444466.48 46444466.61 46444466.74 0.0486 0.0269

Jupiter 122448-10-09 20:21 G 46444556.26 46444556.35 46444556.46 0.0487 0.0383

Saturn 122449-09-23 05:14 G 46444904.58 46444904.72 46444904.87 0.0283 0.0124

Saturn 122449-12-20 22:45 G 46444993.29 46444993.45 46444993.61 0.0283 0.0055

Saturn 122450-03-19 16:17 G 46445082.10 46445082.18 46445082.28 0.0283 0.0238

Moon 122453-05-06 11:57 G 46446225.86 46446226.00 46446226.13 0.2657 0.0290

Earth 122453-05-06 12:26 G 46446225.88 46446226.02 46446226.15 0.2651 0.0288 *

Jupiter 122454-03-20 06:41 G 46446543.72 46446543.78 46446543.84 0.0544 0.0493

Jupiter 122454-06-17 22:17 G 46446633.31 46446633.43 46446633.55 0.0542 0.0295

Venus 122455-08-31 06:41 G 46447072.72 46447072.78 46447072.84 0.3734 0.3144

Mars 122456-01-04 12:41 G 46447198.88 46447199.03 46447199.19 0.1591 0.0197

Moon 122457-10-29 22:45 G 46447863.36 46447863.45 46447863.54 0.2678 0.1741

Earth 122457-10-29 23:14 G 46447863.37 46447863.47 46447863.56 0.2685 0.1618 *

Mars 122458-10-21 12:12 G 46448219.96 46448220.01 46448220.05 0.1944 0.1766

Uranus 122459-07-06 08:21 G 46448477.78 46448477.85 46448477.91 0.0138 0.0124

Uranus 122459-10-02 12:26 G 46448565.93 46448566.02 46448566.13 0.0138 0.0104

Uranus 122459-12-29 17:00 G 46448654.10 46448654.21 46448654.34 0.0138 0.0083

Uranus 122460-03-26 21:19 G 46448742.27 46448742.39 46448742.54 0.0138 0.0063

Jupiter 122460-04-30 04:17 G 46448776.61 46448776.68 46448776.76 0.0485 0.0421

Uranus 122460-06-23 01:53 G 46448830.44 46448830.58 46448830.73 0.0138 0.0042

Jupiter 122460-07-28 21:33 G 46448866.26 46448866.40 46448866.55 0.0487 0.0220

Uranus 122460-09-19 06:12 G 46448918.62 46448918.76 46448918.91 0.0138 0.0022

Uranus 122460-12-16 10:45 G 46449006.80 46449006.95 46449007.10 0.0138 0.0003

Uranus 122461-03-14 15:05 G 46449094.98 46449095.13 46449095.27 0.0138 0.0019

Venus 122461-03-16 01:09 G 46449096.44 46449096.55 46449096.65 0.3730 0.1123

Uranus 122461-06-10 19:09 G 46449183.16 46449183.30 46449183.45 0.0138 0.0039

Uranus 122461-09-06 23:29 G 46449271.35 46449271.48 46449271.62 0.0138 0.0059

Uranus 122461-12-04 03:33 G 46449359.54 46449359.65 46449359.78 0.0138 0.0079

Uranus 122462-03-02 07:38 G 46449447.73 46449447.82 46449447.93 0.0138 0.0100

Uranus 122462-05-29 11:57 G 46449535.93 46449536.00 46449536.08 0.0138 0.0119

Uranus 122462-08-25 16:17 G 46449624.18 46449624.18 46449624.18 0.0138 0.0138

Saturn 122464-04-29 10:17 G 46450236.89 46450236.93 46450236.97 0.0276 0.0264

Saturn 122464-07-27 00:26 G 46450325.38 46450325.52 46450325.65 0.0276 0.0109

Saturn 122464-10-23 14:07 G 46450413.95 46450414.09 46450414.24 0.0276 0.0044

Saturn 122465-01-20 03:48 G 46450502.56 46450502.66 46450502.77 0.0276 0.0193

Mars 122465-05-26 17:57 G 46450629.12 46450629.25 46450629.38 0.1589 0.0834

Jupiter 122466-04-06 00:26 G 46450943.39   46450943.52   46450943.66 0.0542 0.0110

Earth   122466-05-09 12:41 G 46450976.96   46450977.03   46450977.10 0.2653 0.2264

Moon   122466-05-09 13:53 G 46450977.02   46450977.08   46450977.14 0.2656 0.2390 *

Venus   122466-09-29 19:09 G 46451120.20   46451120.30   46451120.41 0.3726 0.0848

Mars   122468-03-12 18:26 G 46451650.15   46451650.27   46451650.39 0.1947 0.0302

Moon   122470-11-01 18:41 G 46452614.16   46452614.28   46452614.40 0.2684 0.0354

Earth   122470-11-01 19:24 G 46452614.20   46452614.31   46452614.43 0.2682 0.0429 *

Venus   122472-04-14 13:09 G 46453143.98   46453144.05   46453144.13 0.3723 0.2717

Jupiter 122472-05-16 22:31 G 46453176.28   46453176.44   46453176.60 0.0486 0.0054

Mars   122477-08-03 00:26 G 46455080.42   46455080.52   46455080.61 0.1950 0.1206

Jupiter 122478-01-23 03:05 G 46455253.49   46455253.63   46455253.77 0.0543 0.0075

Saturn   122479-02-10 04:02 G 46455636.56   46455636.67   46455636.80 0.0283 0.0189

Saturn   122479-05-09 21:33 G 46455725.23   46455725.40   46455725.56 0.0283 0.0013

Venus   122479-05-12 11:29 G 46455727.88   46455727.98   46455728.07 0.3644 0.2448

Saturn   122479-08-06 15:05 G 46455814.00   46455814.13   46455814.26 0.0283 0.0168

Neptune 122481-10-06 01:09 G 46456605.53   46456605.55   46456605.59 0.0089 0.0087

Neptune 122482-01-02 03:48 G 46456693.59   46456693.66   46456693.74 0.0089 0.0079

Neptune 122482-03-31 06:12 G 46456781.67   46456781.76   46456781.86 0.0089 0.0071

Neptune 122482-06-27 08:50 G 46456869.76   46456869.87   46456869.99 0.0089 0.0063

Neptune 122482-09-23 11:14 G 46456957.85   46456957.97   46456958.11 0.0089 0.0055

Neptune 122482-12-20 13:53 G 46457045.94   46457046.08   46457046.23 0.0089 0.0047

Neptune 122483-03-18 16:17 G 46457134.04   46457134.18   46457134.34 0.0089 0.0039

Neptune 122483-06-14 18:55 G 46457222.14   46457222.29   46457222.46 0.0089 0.0031

Neptune 122483-09-10 21:33 G 46457310.24   46457310.40   46457310.57 0.0089 0.0023

Moon   122483-11-04 15:33 G 46457365.10   46457365.15   46457365.21 0.2687 0.2322

Earth   122483-11-04 15:48 G 46457365.10   46457365.16   46457365.21 0.2680 0.2395 *

Neptune 122483-12-08 00:12 G 46457398.35   46457398.51   46457398.68 0.0089 0.0014

Jupiter 122484-03-04 23:57 G 46457486.34   46457486.50   46457486.66 0.0486 0.0103

Neptune 122484-03-05 02:50 G 46457486.45   46457486.62   46457486.79 0.0089 0.0006 *

Neptune 122484-06-01 05:29 G 46457574.56   46457574.73   46457574.90 0.0089 0.0003

Neptune 122484-08-28 08:07 G 46457662.67 46457662.84 46457663.01 0.0089 0.0011

Neptune 122484-11-24 10:45 G 46457750.79 46457750.95 46457751.12 0.0089 0.0019

Venus 122484-11-25 11:43 G 46457751.86 46457751.99 46457752.13 0.3648 0.0470

Neptune 122485-02-20 13:09 G 46457838.90 46457839.05 46457839.23 0.0089 0.0028

Neptune 122485-05-19 16:02 G 46457927.02 46457927.17 46457927.33 0.0089 0.0036

Neptune 122485-08-15 18:41 G 46458015.14 46458015.28 46458015.43 0.0089 0.0044

Neptune 122485-11-11 21:19 G 46458103.26 46458103.39 46458103.54 0.0089 0.0053

Neptune 122486-02-08 00:12 G 46458191.39 46458191.51 46458191.64 0.0089 0.0061

Mars 122486-02-12 08:21 G 46458195.78 46458195.85 46458195.91 0.1593 0.1419

Earth 122486-05-04 17:57 G 46458277.18 46458277.25 46458277.32 0.2648 0.2217

Moon 122486-05-04 18:41 G 46458277.21 46458277.28 46458277.35 0.2654 0.2203 *

Neptune 122486-05-07 02:36 G 46458279.52 46458279.61 46458279.73 0.0089 0.0070

Neptune 122486-08-03 05:14 G 46458367.66 46458367.72 46458367.82 0.0089 0.0079

Neptune 122486-10-30 08:07 G 46458455.82 46458455.84 46458455.88 0.0089 0.0087

Jupiter 122489-11-11 05:00 G 46459563.58 46459563.71 46459563.83 0.0543 0.0264

Jupiter 122490-02-08 19:53 G 46459653.28 46459653.33 46459653.37 0.0541 0.0507

Venus 122490-06-11 12:41 G 46459776.00 46459776.03 46459776.06 0.3652 0.3564

Saturn 122493-12-14 00:12 G 46461057.40 46461057.51 46461057.63 0.0276 0.0169

Saturn 122494-03-12 14:21 G 46461145.95 46461146.10 46461146.25 0.0276 0.0015

Saturn 122494-06-09 04:02 G 46461234.54 46461234.67 46461234.80 0.0276 0.0136

Mars 122495-07-05 13:09 G 46461625.90 46461626.05 46461626.20 0.1591 0.0359

Jupiter 122495-12-23 01:24 G 46461796.42 46461796.56 46461796.69 0.0486 0.0261

Jupiter 122496-03-21 19:09 G 46461886.21 46461886.30 46461886.40 0.0487 0.0392

Mars 122498-04-21 11:57 G 46462646.99 46462647.00 46462647.02 0.1944 0.1913

Earth 122499-05-07 17:57 G 46463028.12 46463028.25 46463028.39 0.2651 0.0239

Moon 122499-05-07 18:55 G 46463028.16 46463028.29 46463028.43 0.2647 0.0487 *

Uranus 122500-01-24 10:31 G 46463289.90 46463289.94 46463290.00 0.0141 0.0133

Uranus 122500-04-22 16:17 G 46463378.08 46463378.18 46463378.28 0.0141 0.0110

Uranus 122500-07-19 21:48 G 46463466.28 46463466.41 46463466.54 0.0140 0.0087

Uranus 122500-10-16 03:19 G 46463554.49 46463554.64 46463554.79 0.0140 0.0064

Uranus 122501-01-12 08:50 G 46463642.72 46463642.87 46463643.03 0.0140 0.0040

Uranus 122501-04-10 14:36 G 46463730.95 46463731.11 46463731.27 0.0140 0.0017

Uranus 122501-07-07 20:21 G 46463819.18 46463819.35 46463819.51 0.0140 0.0007

Jupiter 122501-08-31 06:26 G 46463873.70 46463873.77 46463873.84 0.0543 0.0466

Uranus 122501-10-04 01:53 G 46463907.42 46463907.58 46463907.75 0.0140 0.0031

Jupiter 122501-11-28 21:48 G 46463963.30 46463963.41 46463963.53 0.0541 0.0319

Uranus 122501-12-31 07:38 G 46463995.67 46463995.82 46463995.98 0.0140 0.0055

Uranus 122502-03-29 13:24 G 46464083.93 46464084.06 46464084.21 0.0140 0.0079

Uranus 122502-06-25 19:09 G 46464172.20 46464172.30 46464172.43 0.0140 0.0103

Uranus 122502-09-22 01:09 G 46464260.49 46464260.55 46464260.63 0.0140 0.0127

Moon 122503-11-01 04:02 G 46464665.56 46464665.67 46464665.77 0.2690 0.1301

Earth 122503-11-01 04:17 G 46464665.57 46464665.68 46464665.79 0.2684 0.1185 *

Mars 122504-11-25 18:26 G 46465056.13 46465056.27 46465056.41 0.1589 0.0677

Mars 122507-09-12 18:26 G 46466077.15 46466077.27 46466077.39 0.1948 0.0467

Jupiter 122507-10-12 03:05 G 46466106.55 46466106.63 46466106.71 0.0485 0.0412

Jupiter 122508-01-09 20:21 G 46466196.21 46466196.35 46466196.49 0.0487 0.0229

Saturn 122508-06-30 04:31 G 46466368.62 46466368.69 46466368.78 0.0283 0.0240

Saturn 122508-09-26 21:48 G 46466457.26 46466457.41 46466457.57 0.0283 0.0064

Saturn 122508-12-24 15:19 G 46466546.00 46466546.14 46466546.29 0.0283 0.0117

Venus 122512-04-07 04:45 G 46467745.62 46467745.70 46467745.79 0.3733 0.2483

Moon 122512-05-10 17:57 G 46467779.24 46467779.25 46467779.26 0.2647 0.2638

Jupiter 122513-09-16 23:00 G 46468273.32 46468273.46 46468273.60 0.0542 0.0111

Earth 122516-11-03 00:41 G 46469416.42 46469416.53 46469416.65 0.2682 0.0839

Moon 122516-11-03 01:24 G 46469416.45 46469416.56 46469416.67 0.2686 0.1024 *

Mars 122517-02-02 00:41 G 46469507.42 46469507.53 46469507.63 0.1950 0.1029

Venus 122517-10-21 23:14 G 46469769.36 46469769.47 46469769.58 0.3729 0.0471

Jupiter 122519-10-28 21:33 G 46470506.24 46470506.40 46470506.56 0.0486 0.0070

Saturn 122523-05-04 02:50 G 46471789.53 46471789.62 46471789.73 0.0276 0.0201

Venus 122523-05-07 17:29 G 46471793.12 46471793.23 46471793.33 0.3725 0.1466

Saturn 122523-07-31 17:00 G 46471878.07 46471878.21 46471878.36 0.0276 0.0047

Saturn 122523-10-28 06:41 G 46471966.65 46471966.78 46471966.92 0.0276 0.0105

Saturn 122524-01-24 20:21 G 46472055.29 46472055.35 46472055.40 0.0276 0.0252

Pluto 122524-09-08 11:14 G 46472282.91 46472282.97 46472283.08 0.0058 0.0053

Pluto 122524-12-05 12:26 G 46472370.92 46472371.02 46472371.17 0.0058 0.0045

Pluto 122525-03-03 13:53 G 46472458.95 46472459.08 46472459.25 0.0059 0.0037

Pluto 122525-05-30 15:05 G 46472546.98 46472547.13 46472547.33 0.0059 0.0029

Jupiter 122525-07-06 00:55 G 46472583.40 46472583.54 46472583.68 0.0543 0.0079

Mars 122525-08-14 08:36 G 46472622.86 46472622.86 46472622.87 0.1594 0.1588

Pluto 122525-08-26 16:31 G 46472635.02 46472635.19 46472635.39 0.0059 0.0021

Pluto 122525-11-22 18:12 G 46472723.07 46472723.26 46472723.46 0.0059 0.0012

Pluto 122526-02-18 19:38 G 46472811.12 46472811.32 46472811.51 0.0059 0.0004

Pluto 122526-05-17 20:50 G 46472899.18 46472899.37 46472899.57 0.0059 0.0004

Pluto 122526-08-13 22:02 G 46472987.23 46472987.42 46472987.62 0.0059 0.0013

Pluto 122526-11-09 23:14 G 46473075.30 46473075.47 46473075.67 0.0059 0.0021

Pluto 122527-02-06 00:41 G 46473163.37 46473163.53 46473163.71 0.0059 0.0029

Pluto 122527-05-05 02:07 G 46473251.44 46473251.59 46473251.75 0.0059 0.0037

Pluto 122527-08-01 03:05 G 46473339.53 46473339.63 46473339.77 0.0059 0.0046

Pluto 122527-10-28 04:31 G 46473427.63 46473427.69 46473427.78 0.0059 0.0054

Venus 122528-11-20 11:14 G 46473816.92 46473816.97 46473817.02 0.3722 0.3320

Jupiter 122531-08-16 22:31 G 46474816.29 46474816.44 46474816.60 0.0486 0.0095

Moon 122532-05-05 23:29 G 46475079.38 46475079.48 46475079.58 0.2642 0.1815

Earth 122532-05-05 23:29 G 46475079.38 46475079.48 46475079.59 0.2649 0.1726 *

Mars 122535-01-04 13:38 G 46476052.93 46476053.07 46476053.22 0.1591 0.0528

Venus 122535-12-18 11:14 G 46476400.85 46476400.97 46476401.09 0.3645 0.1528

Jupiter 122537-04-24 03:19 G 46476893.51 46476893.64 46476893.76 0.0543 0.0265

Jupiter 122537-07-22 18:12 G 46476983.22 46476983.26 46476983.31 0.0541 0.0510

Saturn 122538-02-13 21:05 G 46477189.24 46477189.38 46477189.53 0.0283 0.0126

Saturn 122538-05-13 14:36 G 46477277.95 46477278.11 46477278.27 0.0283 0.0053

Saturn 122538-08-10 08:07 G 46477366.76 46477366.84 46477366.93 0.0283 0.0234

Venus 122541-07-03 11:43 G 46478424.86 46478424.99 46478425.11 0.3649 0.1430

Jupiter 122543-06-05 00:12 G 46479126.37 46479126.51 46479126.65 0.0485 0.0249

Uranus 122543-07-27 15:33 G 46479179.08 46479179.15 46479179.24 0.0137 0.0117

Jupiter 122543-09-02 17:57 G 46479216.16 46479216.25 46479216.34 0.0487 0.0402

Uranus 122543-10-23 20:07 G 46479267.24 46479267.34 46479267.45 0.0138 0.0097

Uranus 122544-01-20 00:41 G 46479355.41 46479355.53 46479355.66 0.0138 0.0076

Uranus 122544-04-17 05:00 G 46479443.58 46479443.71 46479443.85 0.0138 0.0056

Mars 122544-05-26 18:55 G 46479483.14 46479483.29 46479483.43 0.1589 0.0508

Uranus 122544-07-14 09:33 G 46479531.75 46479531.90 46479532.04 0.0138 0.0035

Uranus 122544-10-10 13:53 G 46479619.93 46479620.08 46479620.23 0.0138 0.0015

Uranus 122545-01-06 18:12 G 46479708.11 46479708.26 46479708.41 0.0138 0.0006

Uranus 122545-04-04 22:31 G 46479796.29 46479796.44 46479796.59 0.0138 0.0026

Moon 122545-05-08 22:31 G 46479830.31 46479830.44 46479830.58 0.2650 0.0659

Earth 122545-05-08 23:43 G 46479830.36 46479830.49 46479830.62 0.2651 0.0751 *

Uranus 122545-07-02 02:36 G 46479884.48 46479884.61 46479884.76 0.0138 0.0046

Uranus 122545-09-28 06:55 G 46479972.66 46479972.79 46479972.92 0.0138 0.0066

Uranus 122545-12-25 11:00 G 46480060.86 46480060.96 46480061.09 0.0138 0.0086

Uranus 122546-03-23 15:19 G 46480149.05 46480149.14 46480149.24 0.0138 0.0106

Uranus 122546-06-19 19:24 G 46480237.26 46480237.31 46480237.38 0.0138 0.0125

Mars 122547-03-13 18:41 G 46480504.16 46480504.28 46480504.39 0.1947 0.0633

Jupiter 122549-02-10 05:14 G 46481203.64 46481203.72 46481203.79 0.0543 0.0457

Jupiter 122549-05-10 20:36 G 46481293.26 46481293.36 46481293.48 0.0541 0.0330

Earth 122549-11-01 09:33 G 46481467.78 46481467.90 46481468.01 0.2684 0.0765

Moon 122549-11-01 10:17 G 46481467.82 46481467.93 46481468.05 0.2681 0.0650 *

Saturn 122552-09-20 02:36 G 46482521.57 46482521.61 46482521.66 0.0276 0.0263

Saturn 122552-12-17 16:45 G 46482610.07 46482610.20 46482610.34 0.0276 0.0108

Saturn 122553-03-16 06:41 G 46482698.64 46482698.78 46482698.93 0.0276 0.0045

Saturn 122553-06-12 20:21 G 46482787.25 46482787.35 46482787.45 0.0276 0.0194

Mars 122553-10-17 00:12 G 46482913.47 46482913.51 46482913.55 0.1588 0.1520

Jupiter 122555-03-24 01:38 G 46483436.49 46483436.57 46483436.66 0.0485 0.0404

Jupiter 122555-06-21 18:55 G 46483526.15 46483526.29 46483526.44 0.0487 0.0238

Mars 122556-08-03 00:26 G 46483934.42 46483934.52 46483934.63 0.1950 0.0880

Jupiter 122561-02-26 22:45 G 46485603.31 46485603.45 46485603.58 0.0542 0.0138

Neptune 122562-08-07 03:48 G 46486129.63 46486129.66 46486129.71 0.0088 0.0084

Neptune 122562-11-03 05:57 G 46486217.68 46486217.75 46486217.82 0.0088 0.0077

Moon 122562-11-04 05:29 G 46486218.63 46486218.73 46486218.84 0.2675 0.1249

Earth 122562-11-04 05:57 G 46486218.64 46486218.75 46486218.85 0.2682 0.1260 *

Neptune 122563-01-30 07:38 G 46486305.73 46486305.82 46486305.92 0.0088 0.0070

Neptune 122563-04-28 09:19 G 46486393.80 46486393.89 46486394.01 0.0088 0.0063

Neptune 122563-07-25 11:14 G 46486481.86 46486481.97 46486482.10 0.0088 0.0055

Neptune 122563-10-21 13:24 G 46486569.93 46486570.06 46486570.18 0.0088 0.0048

Neptune 122564-01-17 15:05 G 46486658.00 46486658.13 46486658.27 0.0088 0.0041

Neptune 122564-04-14 16:45 G 46486746.07 46486746.20 46486746.35 0.0088 0.0034

Neptune 122564-07-11 18:41 G 46486834.14 46486834.28 46486834.43 0.0088 0.0026

Neptune 122564-10-07 20:36 G 46486922.22 46486922.36 46486922.51 0.0088 0.0019

Neptune 122565-01-03 22:17 G 46487010.29 46487010.43 46487010.58 0.0088 0.0012

Neptune 122565-04-02 00:12 G 46487098.36 46487098.51 46487098.66 0.0088 0.0005

Neptune 122565-06-29 01:53 G 46487186.44 46487186.58 46487186.73 0.0088 0.0004

Neptune 122565-09-25 03:48 G 46487274.51 46487274.66 46487274.81 0.0088 0.0009

Neptune 122565-12-22 05:29 G 46487362.59 46487362.73 46487362.88 0.0088 0.0016

Neptune 122566-03-20 07:09 G 46487450.66 46487450.80 46487450.95 0.0088 0.0024

Neptune 122566-06-16 08:50 G 46487538.74 46487538.87 46487539.02 0.0088 0.0031

Neptune 122566-09-12 10:45 G 46487626.82 46487626.95 46487627.08 0.0088 0.0037

Neptune 122566-12-09 12:26 G 46487714.90 46487715.02 46487715.15 0.0088 0.0044

Neptune 122567-03-07 14:07 G 46487802.98 46487803.09 46487803.21 0.0088 0.0051

Jupiter 122567-04-09 20:21 G 46487836.19 46487836.35 46487836.51 0.0486 0.0080

Neptune 122567-06-03 15:48 G 46487891.06 46487891.16 46487891.28 0.0088 0.0058

Saturn 122567-07-03 21:05 G 46487921.26 46487921.38 46487921.50 0.0283 0.0181

Neptune 122567-08-30 17:14 G 46487979.14 46487979.22 46487979.34 0.0088 0.0066

Saturn 122567-09-30 14:21 G 46488009.94 46488010.10 46488010.27 0.0283 0.0007

Neptune 122567-11-26 19:24 G 46488067.23 46488067.31 46488067.39 0.0088 0.0072

Saturn 122567-12-28 08:07 G 46488098.71 46488098.84 46488098.97 0.0283 0.0177

Neptune 122568-02-22 20:50 G 46488155.32 46488155.37 46488155.45 0.0088 0.0079

Neptune 122568-05-20 22:31 G 46488243.42 46488243.44 46488243.49 0.0088 0.0085

Venus 122568-11-12 03:05 G 46488418.53 46488418.63 46488418.73 0.3732 0.1819

Jupiter 122572-12-15 23:29 G 46489913.34 46489913.48 46489913.62 0.0543 0.0076

Venus 122574-05-28 21:19 G 46490442.28 46490442.39 46490442.51 0.3728 0.0227

Mars 122574-07-05 14:07 G 46490479.95 46490480.09 46490480.23 0.1591 0.0692

Moon 122578-05-07 04:31 G 46491881.57 46491881.69 46491881.80 0.2653 0.1397

Earth 122578-05-07 05:14 G 46491881.60 46491881.72 46491881.84 0.2649 0.1224 *

Jupiter 122579-01-26 21:48 G 46492146.25 46492146.41 46492146.57 0.0486 0.0078

Venus 122579-12-12 15:33 G 46492466.05 46492466.15 46492466.24 0.3725 0.2079

Saturn 122582-05-06 19:38 G 46493342.19 46493342.32 46493342.45 0.0276 0.0138

Saturn 122582-08-03 09:33 G 46493430.75 46493430.90 46493431.05 0.0276 0.0015

Earth 122582-10-30 18:12 G 46493519.21 46493519.26 46493519.31 0.2686 0.2401

Moon 122582-10-30 18:12 G 46493519.21 46493519.26 46493519.32 0.2679 0.2393 *

Saturn 122582-10-30 23:14 G 46493519.35 46493519.47 46493519.59 0.0276 0.0164

Mars 122583-11-25 19:24 G 46493910.16 46493910.31 46493910.46 0.1589 0.0343

Uranus 122584-02-14 17:57 G 46493991.19 46493991.25 46493991.33 0.0141 0.0126

Uranus 122584-05-12 23:29 G 46494079.38 46494079.48 46494079.60 0.0141 0.0103

Uranus 122584-08-09 05:14 G 46494167.59 46494167.72 46494167.86 0.0141 0.0079

Jupiter 122584-10-04 01:24 G 46494223.43 46494223.56 46494223.68 0.0543 0.0271

Uranus 122584-11-05 10:45 G 46494255.81 46494255.95 46494256.11 0.0140 0.0056

Jupiter 122585-01-01 16:17 G 46494313.14 46494313.18 46494313.23 0.0541 0.0506

Uranus 122585-02-01 16:31 G 46494344.03 46494344.19 46494344.35 0.0140 0.0033

Uranus 122585-04-30 22:17 G 46494432.26 46494432.43 46494432.59 0.0140 0.0009

Uranus 122585-07-28 03:48 G 46494520.50 46494520.66 46494520.83 0.0140 0.0015

Uranus 122585-10-24 09:33 G 46494608.75 46494608.90 46494609.07 0.0140 0.0039

Uranus 122586-01-20 15:33 G 46494697.00 46494697.15 46494697.30 0.0140 0.0063

Uranus 122586-04-18 21:05 G 46494785.26 46494785.38 46494785.52 0.0140 0.0087

Uranus 122586-07-16 02:50 G 46494873.53 46494873.62 46494873.73 0.0140 0.0111

Mars 122586-09-11 18:41 G 46494931.17 46494931.28 46494931.39 0.1947 0.0791

Uranus 122586-10-12 08:50 G 46494961.84 46494961.87 46494961.92 0.0140 0.0135

Venus 122587-01-08 11:00 G 46495049.92 46495049.96 46495050.00 0.3642 0.3448

Jupiter 122590-11-14 23:00 G 46496456.32 46496456.46 46496456.60 0.0485 0.0240

Jupiter 122591-02-12 16:45 G 46496546.11 46496546.20 46496546.29 0.0487 0.0411

Earth 122591-05-10 05:29 G 46496632.61 46496632.73 46496632.85 0.2651 0.1261

Moon 122591-05-10 06:12 G 46496632.64 46496632.76 46496632.87 0.2657 0.1437 *

Venus 122592-07-24 11:00 G 46497073.83 46497073.96 46497074.09 0.3646 0.0606

Mars 122593-04-17 00:41 G 46497340.46 46497340.53 46497340.61 0.1588 0.1354

Moon 122595-11-02 13:53 G 46498269.96 46498270.08 46498270.20 0.2683 0.0475

Earth 122595-11-02 14:50 G 46498270.00 46498270.12 46498270.24 0.2684 0.0338 *

Mars 122596-02-02 00:55 G 46498361.42 46498361.54 46498361.65 0.1950 0.0689

Jupiter 122596-07-23 03:19 G 46498533.57 46498533.64 46498533.72 0.0544 0.0460

Jupiter 122596-10-20 19:09 G 46498623.19 46498623.30 46498623.41 0.0542 0.0329

Saturn 122596-11-19 20:50 G 46498653.29 46498653.37 46498653.45 0.0283 0.0239

Saturn 122597-02-16 13:53 G 46498741.93 46498742.08 46498742.24 0.0283 0.0064

Saturn 122597-05-16 07:24 G 46498830.66 46498830.81 46498830.96 0.0283 0.0116

Venus 122598-02-07 11:29 G 46499097.88 46499097.98 46499098.08 0.3650 0.2397

Jupiter 122602-09-04 00:41 G 46500766.44 46500766.53 46500766.62 0.0485 0.0392

Jupiter 122602-12-02 17:57 G 46500856.11 46500856.25 46500856.39 0.0487 0.0249

Jupiter 122608-08-09 21:33 G 46502933.26 46502933.40 46502933.53 0.0542 0.0147

Moon 122608-11-05 10:31 G 46503020.85 46503020.94 46503021.04 0.2687 0.1593

Earth 122608-11-05 11:00 G 46503020.87 46503020.96 46503021.05 0.2681 0.1672 *

Saturn 122611-09-24 19:24 G 46504074.21 46504074.31 46504074.41 0.0276 0.0200

Saturn 122611-12-22 09:19 G 46504162.75 46504162.89 46504163.04 0.0276 0.0047

Saturn 122612-03-19 23:14 G 46504251.33 46504251.47 46504251.61 0.0276 0.0105

Saturn 122612-06-16 12:41 G 46504339.98 46504340.03 46504340.09 0.0276 0.0253

Mars 122614-01-04 14:36 G 46504906.98 46504907.11 46504907.24 0.1591 0.0859

Jupiter 122614-09-20 19:09 G 46505166.14 46505166.30 46505166.46 0.0486 0.0088

Venus 122619-12-05 06:55 G 46507067.73 46507067.79 46507067.84 0.3734 0.3210

Jupiter 122620-05-28 23:14 G 46507243.33 46507243.47 46507243.62 0.0542 0.0050

Pluto 122622-08-08 13:24 G 46508045.03 46508045.06 46508045.13 0.0085 0.0079

Pluto 122622-11-04 14:50 G 46508133.04 46508133.12 46508133.22 0.0085 0.0061

Pluto 122623-01-31 16:02 G 46508221.07 46508221.17 46508221.30 0.0085 0.0045

Pluto 122623-04-29 17:29 G 46508309.11 46508309.23 46508309.36 0.0085 0.0027

Mars 122623-05-27 19:38 G 46508337.17 46508337.32 46508337.48 0.1590 0.0185

Pluto 122623-07-26 18:55 G 46508397.16 46508397.29 46508397.42 0.0085 0.0010

Pluto 122623-10-22 20:07 G 46508485.21 46508485.34 46508485.47 0.0085 0.0007

Pluto 122624-01-18 21:19 G 46508573.27 46508573.39 46508573.52 0.0085 0.0024

Pluto 122624-04-15 22:31 G 46508661.33 46508661.44 46508661.56 0.0085 0.0040

Earth 122624-05-08 10:45 G 46508683.82 46508683.95 46508684.08 0.2649 0.0735

Moon 122624-05-08 12:12 G 46508683.87 46508684.01 46508684.14 0.2649 0.0554 *

Pluto 122624-07-12 23:43 G 46508749.40 46508749.49 46508749.59 0.0084 0.0057

Pluto 122624-10-09 00:41 G 46508837.48 46508837.53 46508837.61 0.0084 0.0074

Venus 122625-06-20 01:24 G 46509091.45 46509091.56 46509091.66 0.3731 0.1166

Mars 122626-03-13 18:55 G 46509358.18 46509358.29 46509358.39 0.1947 0.0976

Saturn 122626-07-07 13:38 G 46509473.92 46509474.07 46509474.21 0.0283 0.0122

Jupiter 122626-07-09 20:36 G 46509476.20 46509476.36 46509476.52 0.0486 0.0068

Saturn 122626-10-04 06:55 G 46509562.63 46509562.79 46509562.95 0.0283 0.0056

Saturn 122627-01-01 00:41 G 46509651.45 46509651.53 46509651.62 0.0283 0.0238

Uranus 122627-05-21 18:55 G 46509792.25 46509792.29 46509792.35 0.0137 0.0130

Uranus 122627-08-17 23:29 G 46509880.40 46509880.48 46509880.58 0.0137 0.0109

Uranus 122627-11-14 04:02 G 46509968.56 46509968.67 46509968.79 0.0138 0.0089

Uranus 122628-02-10 08:21 G 46510056.73 46510056.85 46510056.99 0.0138 0.0068

Uranus 122628-05-08 12:55 G 46510144.90 46510145.04 46510145.18 0.0138 0.0048

Uranus 122628-08-04 17:14 G 46510233.07 46510233.22 46510233.37 0.0138 0.0027

Uranus 122628-10-31 21:33 G 46510321.25 46510321.40 46510321.55 0.0138 0.0007

Moon 122628-10-31 22:45 G 46510321.38 46510321.45 46510321.52 0.2690 0.2136 *

Earth 122628-10-31 23:29 G 46510321.40 46510321.48 46510321.56 0.2685 0.1965 *

Uranus 122629-01-28 01:53 G 46510409.43 46510409.58 46510409.73 0.0138 0.0014

Uranus 122629-04-26 06:12 G 46510497.62 46510497.76 46510497.91 0.0138 0.0034

Uranus 122629-07-23 10:17 G 46510585.80 46510585.93 46510586.08 0.0138 0.0054

Uranus 122629-10-19 14:50 G 46510673.99 46510674.12 46510674.24 0.0138 0.0073

Uranus 122630-01-15 18:55 G 46510762.19 46510762.29 46510762.40 0.0138 0.0093

Uranus 122630-04-13 23:00 G 46510850.39 46510850.46 46510850.55 0.0138 0.0113

Uranus 122630-07-11 03:19 G 46510938.61 46510938.64 46510938.68 0.0138 0.0133

Venus 122631-01-03 19:38 G 46511115.21 46511115.32 46511115.43 0.3727 0.0804

Jupiter 122632-03-16 23:57 G 46511553.37 46511553.50 46511553.62 0.0543 0.0266

Jupiter 122632-06-14 15:05 G 46511643.08 46511643.13 46511643.17 0.0541 0.0509

Mars 122632-10-17 01:09 G 46511767.45 46511767.55 46511767.65 0.1588 0.1193

Mars 122635-08-04 00:55 G 46512788.42 46512788.54 46512788.66 0.1950 0.0528

Venus 122636-07-19 13:38 G 46513138.99 46513139.07 46513139.14 0.3724 0.2687

Earth 122637-05-11 11:00 G 46513434.86 46513434.96 46513435.06 0.2652 0.1776

Moon 122637-05-11 11:14 G 46513434.87 46513434.97 46513435.07 0.2645 0.1796 *

Jupiter 122638-04-27 22:02 G 46513786.28 46513786.42 46513786.57 0.0485 0.0223

Jupiter 122638-07-26 15:48 G 46513876.09 46513876.16 46513876.24 0.0487 0.0430

Saturn 122641-02-10 22:02 G 46514806.35 46514806.42 46514806.51 0.0276 0.0231

Saturn 122641-05-10 12:12 G 46514894.87 46514895.01 46514895.16 0.0276 0.0077

Saturn 122641-08-07 02:07 G 46514983.45 46514983.59 46514983.73 0.0276 0.0076

Saturn 122641-11-03 15:48 G 46515072.08 46515072.16 46515072.24 0.0276 0.0224

Earth 122641-11-03 19:53 G 46515072.21 46515072.33 46515072.45 0.2683 0.0095 *

Moon 122641-11-03 20:21 G 46515072.23 46515072.35 46515072.47 0.2690 0.0223 *

Venus 122643-08-16 10:31 G 46515722.85 46515722.94 46515723.04 0.3643 0.2553

Jupiter 122644-01-04 01:24 G 46515863.49 46515863.56 46515863.64 0.0544 0.0466

Jupiter 122644-04-02 17:14 G 46515953.11 46515953.22 46515953.33 0.0542 0.0324

Neptune 122646-07-04 23:14 G 46516776.44 46516776.47 46516776.53 0.0089 0.0085

Neptune 122646-10-01 01:53 G 46516864.51 46516864.58 46516864.67 0.0089 0.0077

Neptune 122646-12-28 04:17 G 46516952.59 46516952.68 46516952.79 0.0089 0.0069

Neptune 122647-03-26 06:55 G 46517040.68 46517040.79 46517040.92 0.0089 0.0061

Neptune 122647-06-22 09:19 G 46517128.77 46517128.89 46517129.03 0.0089 0.0053

Neptune 122647-09-18 11:57 G 46517216.86   46517217.00   46517217.15 0.0089 0.0045

Neptune 122647-12-15 14:36 G 46517304.96   46517305.11   46517305.26 0.0089 0.0037

Neptune 122648-03-12 17:00 G 46517393.06   46517393.21   46517393.38 0.0089 0.0029

Neptune 122648-06-08 19:38 G 46517481.16   46517481.32   46517481.49 0.0089 0.0021

Neptune 122648-09-04 22:17 G 46517569.27   46517569.43   46517569.60 0.0089 0.0012

Neptune 122648-12-02 00:55 G 46517657.37   46517657.54   46517657.71 0.0089 0.0004

Neptune 122649-02-28 03:33 G 46517745.48   46517745.65   46517745.82 0.0089 0.0004

Venus   122649-03-01 10:45 G 46517746.82   46517746.95   46517747.08 0.3647 0.0320

Neptune 122649-05-27 05:57 G 46517833.59   46517833.75   46517833.93 0.0089 0.0013

Neptune 122649-08-23 08:36 G 46517921.70   46517921.86   46517922.03 0.0089 0.0021

Neptune 122649-11-19 11:29 G 46518009.82   46518009.98   46518010.14 0.0089 0.0029

Jupiter 122650-02-13 23:14 G 46518096.38   46518096.47   46518096.57 0.0485 0.0383

Neptune 122650-02-15 13:53 G 46518097.94   46518098.08   46518098.24 0.0089 0.0038

Jupiter 122650-05-14 16:31 G 46518186.06   46518186.19   46518186.33 0.0486 0.0259

Neptune 122650-05-14 16:45 G 46518186.06   46518186.20   46518186.35 0.0089 0.0046 *

Neptune 122650-08-10 19:09 G 46518274.18   46518274.30   46518274.45 0.0089 0.0055

Neptune 122650-11-06 22:02 G 46518362.31   46518362.42   46518362.54 0.0089 0.0063

Neptune 122651-02-03 00:26 G 46518450.44   46518450.52   46518450.64 0.0089 0.0072

Neptune 122651-05-02 03:33 G 46518538.58   46518538.65   46518538.72 0.0089 0.0080

Neptune 122651-07-29 06:12 G 46518626.76   46518626.76   46518626.77 0.0089 0.0089

Mars   122653-07-05 15:05 G 46519334.01   46519334.13   46519334.25 0.1592 0.1032

Venus   122654-09-15 11:43 G 46519770.94   46519770.99   46519771.03 0.3651 0.3399

Earth   122654-11-06 16:17 G 46519823.10   46519823.18   46519823.25 0.2681 0.2087

Moon   122654-11-06 17:00 G 46519823.14   46519823.21   46519823.28 0.2679 0.2175 *

Saturn   122655-11-24 13:38 G 46520205.95   46520206.07   46520206.20 0.0283 0.0176

Jupiter 122656-01-20 19:38 G 46520263.19   46520263.32   46520263.46 0.0543 0.0144

Saturn   122656-02-21 06:55 G 46520294.63   46520294.79   46520294.95 0.0283 0.0002

Saturn   122656-05-20 00:26 G 46520383.40   46520383.52   46520383.65 0.0283 0.0181

Moon   122657-05-06 17:14 G 46520735.20   46520735.22   46520735.23 0.2641 0.2610

Jupiter 122662-03-02 17:43 G 46522496.09   46522496.24   46522496.40 0.0486 0.0099

Mars 122662-11-25 20:21 G 46522764.19 46522764.35 46522764.50 0.1589 0.0046

Mars 122665-09-11 18:55 G 46523785.19 46523785.29 46523785.39 0.1947 0.1126

Jupiter 122667-11-08 22:02 G 46524573.28 46524573.42 46524573.56 0.0543 0.0042

Uranus 122667-12-09 20:36 G 46524604.35 46524604.36 46524604.37 0.0141 0.0140

Uranus 122668-03-07 02:07 G 46524692.50 46524692.59 46524692.68 0.0141 0.0117

Uranus 122668-06-03 07:38 G 46524780.70 46524780.82 46524780.94 0.0141 0.0094

Uranus 122668-08-30 13:09 G 46524868.91 46524869.05 46524869.19 0.0141 0.0071

Uranus 122668-11-26 18:41 G 46524957.13 46524957.28 46524957.44 0.0140 0.0048

Uranus 122669-02-23 00:26 G 46525045.36 46525045.52 46525045.68 0.0140 0.0024

Uranus 122669-05-22 06:12 G 46525133.59 46525133.76 46525133.92 0.0140 0.0003

Uranus 122669-08-18 11:43 G 46525221.83 46525221.99 46525222.16 0.0140 0.0024

Uranus 122669-11-14 17:29 G 46525310.08 46525310.23 46525310.39 0.0140 0.0047

Uranus 122670-02-10 23:14 G 46525398.33 46525398.47 46525398.62 0.0140 0.0071

Moon 122670-05-09 15:33 G 46525486.02 46525486.15 46525486.29 0.2646 0.0324

Earth 122670-05-09 16:31 G 46525486.05 46525486.19 46525486.33 0.2650 0.0225 *

Uranus 122670-05-10 05:14 G 46525486.60 46525486.72 46525486.84 0.0140 0.0095

Uranus 122670-08-06 10:45 G 46525574.88 46525574.95 46525575.05 0.0140 0.0120

Saturn 122670-09-27 12:12 G 46525626.88 46525627.01 46525627.14 0.0276 0.0137

Saturn 122670-12-25 02:07 G 46525715.44 46525715.59 46525715.74 0.0276 0.0016

Saturn 122671-03-23 15:48 G 46525804.04 46525804.16 46525804.28 0.0276 0.0166

Mars 122672-04-17 01:24 G 46526194.45 46526194.56 46526194.68 0.1588 0.1038

Jupiter 122673-12-19 19:09 G 46526806.14 46526806.30 46526806.46 0.0486 0.0062

Earth 122674-11-02 04:31 G 46527123.60 46527123.69 46527123.79 0.2685 0.1534

Moon 122674-11-02 05:29 G 46527123.63 46527123.73 46527123.84 0.2687 0.1462 *

Mars 122675-02-02 00:55 G 46527215.42 46527215.54 46527215.66 0.1950 0.0364

Venus 122676-07-11 05:00 G 46527740.63 46527740.71 46527740.80 0.3734 0.2543

Jupiter 122679-08-27 23:43 G 46528883.36 46528883.49 46528883.62 0.0543 0.0238

Jupiter 122679-11-25 14:36 G 46528973.10 46528973.11 46528973.13 0.0541 0.0536

Venus 122682-01-24 23:29 G 46529764.37 46529764.48 46529764.59 0.3730 0.0524

Moon 122683-05-12 15:33 G 46530237.07 46530237.15 46530237.24 0.2655 0.2071

Earth 122683-05-12 16:45 G 46530237.13 46530237.20 46530237.27 0.2652 0.2291 *

Mars 122684-06-24 06:55 G 46530645.76 46530645.79 46530645.82 0.1952 0.1883

Saturn 122685-04-12 13:09 G 46530937.97 46530938.05 46530938.14 0.0283 0.0237

Saturn 122685-07-10 06:12 G 46531026.61 46531026.76 46531026.92 0.0283 0.0062

Saturn 122685-10-06 23:43 G 46531115.35 46531115.49 46531115.64 0.0283 0.0118

Jupiter 122685-10-07 20:50 G 46531116.23 46531116.37 46531116.52 0.0485 0.0214

Jupiter 122686-01-05 14:36 G 46531206.05 46531206.11 46531206.18 0.0487 0.0439

Venus 122687-08-10 17:43 G 46531788.13 46531788.24 46531788.34 0.3726 0.1415

Earth 122687-11-05 01:09 G 46531874.43 46531874.55 46531874.67 0.2683 0.0517

Moon 122687-11-05 01:24 G 46531874.44 46531874.56 46531874.68 0.2676 0.0625 *

Jupiter 122691-06-15 23:57 G 46533193.43 46533193.50 46533193.58 0.0543 0.0460

Jupiter 122691-09-13 15:48 G 46533283.05 46533283.16 46533283.27 0.0542 0.0329

Mars 122693-01-03 15:33 G 46533761.05 46533761.15 46533761.25 0.1592 0.1200

Venus 122693-02-23 11:43 G 46533811.94 46533811.99 46533812.03 0.3723 0.3290

Jupiter 122697-07-26 22:31 G 46535426.34 46535426.44 46535426.55 0.0485 0.0367

Jupiter 122697-10-24 15:48 G 46535516.03 46535516.16 46535516.30 0.0487 0.0276

Saturn 122700-02-14 15:05 G 46536359.01 46536359.13 46536359.25 0.0276 0.0166

Venus 122700-03-23 10:17 G 46536395.81 46536395.93 46536396.05 0.3644 0.1661

Saturn 122700-05-14 05:00 G 46536447.56 46536447.71 46536447.86 0.0276 0.0014

Saturn 122700-08-10 18:41 G 46536536.16 46536536.28 46536536.41 0.0276 0.0138

Moon 122700-11-07 20:36 G 46536625.30 46536625.36 46536625.42 0.2678 0.2304

Earth 122700-11-07 21:19 G 46536625.35 46536625.39 46536625.43 0.2681 0.2497 *

Mars 122702-05-27 20:36 G 46537191.21 46537191.36 46537191.52 0.1590 0.0155

Moon 122703-05-08 21:19 G 46537537.33 46537537.39 46537537.44 0.2649 0.2404

Earth 122703-05-08 22:17 G 46537537.35 46537537.43 46537537.51 0.2648 0.2151 *

Jupiter 122703-07-03 17:43 G 46537593.10 46537593.24 46537593.38 0.0542 0.0138

Mars 122705-03-13 18:55 G 46538212.20 46538212.29 46538212.38 0.1947 0.1296

Venus 122705-10-07 10:45 G 46538419.82 46538419.95 46538420.07 0.3648 0.1280

Jupiter 122709-08-13 16:31 G 46539826.03 46539826.19 46539826.35 0.0486 0.0106

Uranus 122711-06-12 02:36 G 46540493.56 46540493.61 46540493.69 0.0137 0.0123

Uranus 122711-09-08 07:24 G 46540581.71 46540581.81 46540581.91 0.0137 0.0102

Mars 122711-10-18 02:07 G 46540621.46 46540621.59 46540621.72 0.1588 0.0868

Uranus 122711-12-05 11:43 G 46540669.87 46540669.99 46540670.12 0.0137 0.0081

Uranus 122712-03-02 16:02 G 46540758.04 46540758.17 46540758.31 0.0138 0.0061

Uranus 122712-05-29 20:36 G 46540846.22 46540846.36 46540846.51 0.0138 0.0040

Uranus 122712-08-26 01:09 G 46540934.40 46540934.55 46540934.69 0.0138 0.0020

Uranus 122712-11-22 05:29 G 46541022.58 46541022.73 46541022.88 0.0138 0.0003

Uranus 122713-02-18 09:48 G 46541110.76 46541110.91 46541111.05 0.0138 0.0021

Uranus 122713-05-17 13:53 G 46541198.94 46541199.08 46541199.23 0.0138 0.0041

Uranus 122713-08-13 18:12 G 46541287.13 46541287.26 46541287.40 0.0138 0.0061

Uranus 122713-11-09 22:17 G 46541375.32 46541375.43 46541375.56 0.0138 0.0081

Uranus 122714-02-06 02:36 G 46541463.52 46541463.61 46541463.71 0.0138 0.0101

Uranus 122714-05-05 06:55 G 46541551.72 46541551.79 46541551.86 0.0138 0.0120

Mars 122714-08-04 01:09 G 46541642.43 46541642.55 46541642.67 0.1950 0.0185

Saturn 122714-11-28 06:55 G 46541758.64 46541758.79 46541758.94 0.0283 0.0110

Saturn 122715-02-25 00:12 G 46541847.35 46541847.51 46541847.67 0.0283 0.0068

Jupiter 122715-04-21 20:07 G 46541903.19 46541903.34 46541903.48 0.0543 0.0050

Saturn 122715-05-24 17:43 G 46541936.17 46541936.24 46541936.32 0.0283 0.0249

Moon 122716-05-10 22:02 G 46542288.29 46542288.42 46542288.56 0.2657 0.0368

Earth 122716-05-10 22:17 G 46542288.29 46542288.43 46542288.56 0.2650 0.0290 *

Moon 122720-11-03 09:19 G 46543925.78 46543925.89 46543926.00 0.2680 0.1261

Earth 122720-11-03 09:48 G 46543925.80 46543925.91 46543926.02 0.2685 0.1097 *

Jupiter 122721-06-01 17:57 G 46544136.09 46544136.25 46544136.41 0.0486 0.0052

Mars 122723-12-25 06:55 G 46545072.74 46545072.79 46545072.85 0.1952 0.1726

Jupiter 122727-02-07 22:17 G 46546213.30 46546213.43 46546213.56 0.0543 0.0235

Neptune 122727-05-06 02:21 G 46546300.56 46546300.60 46546300.66 0.0088 0.0083

Jupiter 122727-05-08 13:09 G 46546303.05 46546303.05 46546303.06 0.0541 0.0540

Neptune 122727-08-02 04:17 G 46546388.61 46546388.68 46546388.76 0.0088 0.0075

Neptune 122727-10-29 05:57 G 46546476.67 46546476.75 46546476.86 0.0088 0.0069

Neptune 122728-01-25 08:07 G 46546564.74 46546564.84 46546564.95 0.0088 0.0061

Neptune 122728-04-22 09:48 G 46546652.80 46546652.91 46546653.04 0.0088 0.0054

Neptune 122728-07-19 11:43 G 46546740.87 46546740.99 46546741.13 0.0088 0.0046

Neptune 122728-10-15 13:53 G 46546828.94 46546829.08 46546829.21 0.0088 0.0039

Neptune 122729-01-11 15:33 G 46546917.01 46546917.15 46546917.29 0.0088 0.0032

Neptune 122729-04-09 17:29 G 46547005.09 46547005.23 46547005.37 0.0088 0.0024

Saturn 122729-07-04 14:50 G 46547091.04 46547091.12 46547091.21 0.0276 0.0226

Neptune 122729-07-06 19:09 G 46547093.16 46547093.30 46547093.45 0.0088 0.0018

Saturn 122729-10-01 05:00 G 46547179.57 46547179.71 46547179.86 0.0276 0.0072

Neptune 122729-10-02 21:05 G 46547181.23 46547181.38 46547181.53 0.0088 0.0010

Saturn 122729-12-28 18:55 G 46547268.15 46547268.29 46547268.43 0.0276 0.0081

Neptune 122729-12-29 23:00 G 46547269.31 46547269.46 46547269.61 0.0088 0.0003

Saturn 122730-03-27 08:36 G 46547356.78 46547356.86 46547356.94 0.0276 0.0229

Neptune 122730-03-28 00:41 G 46547357.38 46547357.53 46547357.68 0.0088 0.0004

Neptune 122730-06-24 02:36 G 46547445.46 46547445.61 46547445.75 0.0088 0.0011

Neptune 122730-09-20 04:17 G 46547533.54 46547533.68 46547533.82 0.0088 0.0018

Neptune 122730-12-17 05:57 G 46547621.61 46547621.75 46547621.90 0.0088 0.0025

Neptune 122731-03-15 07:38 G 46547709.69 46547709.82 46547709.96 0.0088 0.0033

Neptune 122731-06-11 09:33 G 46547797.77 46547797.90 46547798.03 0.0088 0.0039

Neptune 122731-09-07 11:14 G 46547885.85 46547885.97 46547886.10 0.0088 0.0046

Neptune 122731-12-04 12:55 G 46547973.93 46547974.04 46547974.16 0.0088 0.0053

Neptune 122732-03-01 14:36 G 46548062.01 46548062.11 46548062.22 0.0088 0.0060

Neptune 122732-05-28 16:17 G 46548150.10 46548150.18 46548150.28 0.0088 0.0067

Mars 122732-07-05 16:02 G 46548188.09 46548188.17 46548188.24 0.1592 0.1367

Neptune 122732-08-24 18:12 G 46548238.18 46548238.26 46548238.34 0.0088 0.0074

Neptune 122732-11-20 19:53 G 46548326.28 46548326.33 46548326.39 0.0088 0.0080

Venus 122733-02-16 03:19 G 46548413.54 46548413.64 46548413.74 0.3733 0.1877

Neptune 122733-02-16 21:19 G 46548414.39 46548414.39 46548414.42 0.0088 0.0088

Jupiter 122733-03-20 19:24 G 46548446.16 46548446.31 46548446.45 0.0485 0.0211

Jupiter 122733-06-18 13:09 G 46548535.98 46548536.05 46548536.11 0.0487 0.0442

Moon 122733-11-06 05:29 G 46548676.62 46548676.73 46548676.84 0.2685 0.0867

Earth 122733-11-06 06:12 G 46548676.65 46548676.76 46548676.88 0.2683 0.0943 *

Venus 122738-09-01 21:33 G 46550437.29 46550437.40 46550437.51 0.3729 0.0141

Jupiter 122738-11-26 23:43 G 46550523.41 46550523.49 46550523.58 0.0543 0.0434

Jupiter 122739-02-24 15:33 G 46550613.04 46550613.15 46550613.25 0.0542 0.0354

Mars 122741-11-25 21:05 G 46551618.23 46551618.38 46551618.53 0.1590 0.0315

Venus 122744-03-17 15:48 G 46552461.07 46552461.16 46552461.25 0.3726 0.2033

Saturn 122744-04-16 06:12 G 46552490.64 46552490.76 46552490.89 0.0283 0.0172

Saturn 122744-07-13 23:29 G 46552579.32 46552579.48 46552579.64 0.0283 0.0004

Mars 122744-09-11 19:09 G 46552639.22 46552639.30 46552639.38 0.1947 0.1472

Saturn 122744-10-10 17:00 G 46552668.09 46552668.21 46552668.33 0.0283 0.0185

Jupiter 122745-01-06 21:05 G 46552756.28 46552756.38 46552756.49 0.0485 0.0360

Jupiter 122745-04-06 14:21 G 46552845.97 46552846.10 46552846.23 0.0487 0.0283

Earth 122749-05-09 03:48 G 46554339.56 46554339.66 46554339.77 0.2648 0.1662

Moon 122749-05-09 05:00 G 46554339.60 46554339.71 46554339.82 0.2652 0.1590 *

Jupiter 122750-12-13 16:17 G 46554923.05 46554923.18 46554923.32 0.0542 0.0142

Venus 122751-04-14 10:02 G 46555044.90 46555044.92 46555044.95 0.3641 0.3556

Mars 122751-04-18 02:36 G 46555048.47 46555048.61 46555048.74 0.1588 0.0705

Uranus 122751-12-31 04:02 G 46555305.62 46555305.67 46555305.72 0.0141 0.0133

Uranus 122752-03-28 09:33 G 46555393.80 46555393.90 46555394.00 0.0141 0.0110

Uranus 122752-06-24 15:05 G 46555482.01 46555482.13 46555482.26 0.0141 0.0087

Uranus 122752-09-20 20:36 G 46555570.22 46555570.36 46555570.51 0.0141 0.0064

Uranus 122752-12-18 02:07 G 46555658.44 46555658.59 46555658.76 0.0141 0.0041

Uranus 122753-03-16 07:53 G 46555746.67 46555746.83 46555747.00 0.0140 0.0017

Uranus 122753-06-12 13:38 G 46555834.91 46555835.07 46555835.24 0.0140 0.0007

Uranus 122753-09-08 19:24 G 46555923.15 46555923.31 46555923.47 0.0140 0.0031

Uranus 122753-12-06 00:55 G 46556011.40 46556011.54 46556011.70 0.0140 0.0056

Mars 122754-02-02 01:24 G 46556069.44 46556069.56 46556069.68 0.1949 0.0037

Uranus 122754-03-04 06:41 G 46556099.65 46556099.78 46556099.93 0.0140 0.0080

Uranus 122754-05-31 12:41 G 46556187.92 46556188.03 46556188.15 0.0140 0.0103

Uranus 122754-08-27 18:26 G 46556276.22 46556276.27 46556276.35 0.0140 0.0128

Venus 122756-10-28 10:02 G 46557068.79 46557068.92 46557069.05 0.3645 0.0742

Jupiter 122757-01-23 15:33 G 46557156.00 46557156.15 46557156.31 0.0486 0.0122

Saturn 122758-11-21 17:29 G 46557823.19 46557823.23 46557823.30 0.0276 0.0256

Saturn 122759-02-18 07:53 G 46557911.70 46557911.83 46557911.97 0.0276 0.0101

Saturn 122759-05-17 22:02 G 46558000.27 46558000.42 46558000.56 0.0276 0.0053

Saturn 122759-08-14 11:43 G 46558088.89 46558088.99 46558089.09 0.0276 0.0202

Earth 122762-05-12 03:48 G 46559090.53 46559090.66 46559090.79 0.2651 0.0789

Moon 122762-05-12 04:31 G 46559090.56 46559090.69 46559090.82 0.2645 0.0985 *

Venus 122762-05-14 10:45 G 46559092.84 46559092.95 46559093.05 0.3649 0.2260

Jupiter 122762-10-01 17:57 G 46559233.11 46559233.25 46559233.39 0.0543 0.0055

Mars 122763-06-25 07:09 G 46559499.72 46559499.80 46559499.87 0.1952 0.1556

Moon 122766-11-04 14:50 G 46560728.01 46560728.12 46560728.24 0.2691 0.0720

Earth 122766-11-04 15:05 G 46560728.01 46560728.13 46560728.25 0.2685 0.0662 *

Jupiter 122768-11-11 16:31 G 46561466.03 46561466.19 46561466.35 0.0486 0.0046

Mars 122772-01-04 16:31 G 46562615.15 46562615.19 46562615.22 0.1592 0.1540

Pluto 122773-01-02 17:00 G 46562979.13 46562979.21 46562979.31 0.0058 0.0052

Pluto 122773-03-31 18:12 G 46563067.15 46563067.26 46563067.41 0.0058 0.0044

Pluto 122773-06-27 19:38 G 46563155.18 46563155.32 46563155.49 0.0059 0.0036

Saturn 122773-09-03 07:24 G 46563222.71 46563222.81 46563222.92 0.0283 0.0214

Pluto 122773-09-23 20:50 G 46563243.21 46563243.37 46563243.56 0.0059 0.0028

Saturn 122773-12-01 00:26 G 46563311.37 46563311.52 46563311.68 0.0283 0.0040

Pluto 122773-12-20 22:17 G 46563331.25 46563331.43 46563331.62 0.0059 0.0020

Saturn 122774-02-27 17:57 G 46563400.11 46563400.25 46563400.39 0.0283 0.0140

Pluto 122774-03-18 23:29 G 46563419.30 46563419.48 46563419.69 0.0059 0.0012

Pluto 122774-06-15 00:55 G 46563507.35 46563507.54 46563507.75 0.0059 0.0004

Jupiter 122774-07-20 20:07 G 46563543.21 46563543.34 46563543.46 0.0544 0.0245

Pluto 122774-09-11 02:21 G 46563595.41 46563595.60 46563595.80 0.0059 0.0005

Jupiter 122774-10-18 11:14 G 46563632.95 46563632.97 46563632.99 0.0542 0.0532

Pluto 122774-12-08 03:48 G 46563683.47 46563683.66 46563683.85 0.0059 0.0013

Pluto 122775-03-06 04:45 G 46563771.53 46563771.70 46563771.90 0.0059 0.0022

Pluto 122775-06-02 05:57 G 46563859.60 46563859.75 46563859.94 0.0059 0.0030

Pluto 122775-08-29 07:24 G 46563947.68 46563947.81 46563947.98 0.0059 0.0038

Pluto 122775-11-25 08:50 G 46564035.76 46564035.87 46564036.00 0.0059 0.0046

Pluto 122776-02-21 09:48 G 46564123.87 46564123.91 46564124.01 0.0059 0.0055

Earth 122779-11-07 11:29 G 46565478.87 46565478.98 46565479.08 0.2682 0.1356

Moon 122779-11-07 12:12 G 46565478.92 46565479.01 46565479.11 0.2685 0.1540 *

Jupiter 122780-08-30 17:57 G 46565776.10 46565776.25 46565776.39 0.0485 0.0203

Jupiter 122780-11-28 11:29 G 46565865.93 46565865.98 46565866.05 0.0487 0.0449

Mars 122781-05-26 21:33 G 46566045.25 46566045.40 46566045.55 0.1590 0.0488

Venus 122784-03-09 06:55 G 46567062.74 46567062.79 46567062.84 0.3735 0.3283

Mars 122784-03-12 19:09 G 46567066.24 46567066.30 46567066.37 0.1946 0.1634

Jupiter 122786-05-08 22:02 G 46567853.34 46567853.42 46567853.51 0.0544 0.0435

Jupiter 122786-08-06 13:53 G 46567942.97 46567943.08 46567943.18 0.0542 0.0354

Saturn 122788-07-07 08:07 G 46568643.72 46568643.84 46568643.97 0.0276 0.0157

Saturn 122788-10-03 22:17 G 46568732.28 46568732.43 46568732.58 0.0276 0.0006

Saturn 122788-12-31 12:12 G 46568820.88 46568821.01 46568821.13 0.0276 0.0147

Venus 122789-09-23 01:24 G 46569086.46 46569086.56 46569086.67 0.3732 0.1239

Mars 122790-10-17 02:50 G 46569475.48 46569475.62 46569475.76 0.1588 0.0544

Jupiter 122792-06-18 19:24 G 46570086.21 46570086.31 46570086.42 0.0485 0.0359

Jupiter 122792-09-16 12:41 G 46570175.89 46570176.03 46570176.16 0.0487 0.0284

Mars 122793-08-03 01:24 G 46570496.44 46570496.56 46570496.68 0.1949 0.0152

Uranus 122795-04-05 06:12 G 46571106.74 46571106.76 46571106.79 0.0137 0.0135

Venus 122795-04-08 19:53 G 46571110.22 46571110.33 46571110.44 0.3728 0.0753

Moon 122795-05-10 09:19 G 46571141.77 46571141.89 46571142.01 0.2642 0.1253

Earth 122795-05-10 09:33 G 46571141.78 46571141.90 46571142.02 0.2648 0.1169 *

Uranus 122795-07-02 10:31 G 46571194.87 46571194.94 46571195.03 0.0137 0.0114

Uranus 122795-09-28 15:05 G 46571283.03 46571283.13 46571283.25 0.0137 0.0094

Uranus 122795-12-25 19:38 G 46571371.20 46571371.32 46571371.45 0.0137 0.0073

Uranus 122796-03-22 23:57 G 46571459.37 46571459.50 46571459.65 0.0137 0.0053

Uranus 122796-06-19 04:31 G 46571547.54 46571547.69 46571547.84 0.0138 0.0032

Uranus 122796-09-15 08:50 G 46571635.72 46571635.87 46571636.02 0.0138 0.0012

Uranus 122796-12-12 13:09 G 46571723.91 46571724.05 46571724.20 0.0138 0.0010

Uranus 122797-03-10 17:29 G 46571812.09 46571812.23 46571812.38 0.0138 0.0029

Uranus 122797-06-06 21:48 G 46571900.27 46571900.41 46571900.55 0.0138 0.0049

Uranus 122797-09-03 02:07 G 46571988.46 46571988.59 46571988.72 0.0138 0.0069

Uranus 122797-11-30 06:12 G 46572076.66 46572076.76 46572076.88 0.0138 0.0089

Uranus 122798-02-26 10:17 G 46572164.85 46572164.93 46572165.03 0.0138 0.0109

Jupiter 122798-05-25 15:48 G 46572253.03 46572253.16 46572253.29 0.0542 0.0165

Uranus 122798-05-25 14:50 G 46572253.07 46572253.12 46572253.17 0.0138 0.0129 *

Earth 122799-11-02 23:43 G 46572779.43 46572779.49 46572779.55 0.2686 0.2315

Moon 122799-11-03 00:12 G 46572779.45 46572779.51 46572779.58 0.2692 0.2255 *

Mars 122800-03-08 08:21 G 46572905.82 46572905.85 46572905.88 0.1587 0.1549

Venus 122800-10-22 13:53 G 46573134.00 46573134.08 46573134.16 0.3724 0.2644

Mars 122802-12-24 07:24 G 46573926.72 46573926.81 46573926.90 0.1952 0.1361

Saturn 122803-01-21 06:41 G 46573954.76 46573954.78 46573954.81 0.0283 0.0276

Saturn 122803-04-19 23:43 G 46574043.34 46574043.49 46574043.64 0.0283 0.0103

Saturn 122803-07-17 17:00 G 46574132.06 46574132.21 46574132.37 0.0283 0.0075

Saturn 122803-10-14 10:31 G 46574220.89 46574220.94 46574221.02 0.0283 0.0257

Jupiter 122804-07-05 14:07 G 46574485.93 46574486.09 46574486.25 0.0486 0.0127

Venus 122807-11-19 09:48 G 46575717.82 46575717.91 46575718.00 0.3642 0.2666

Moon 122808-05-12 08:21 G 46575892.72 46575892.85 46575892.97 0.2650 0.1155

Earth 122808-05-12 09:33 G 46575892.78 46575892.90 46575893.02 0.2651 0.1302 *

Jupiter 122810-03-13 16:31 G 46576563.05 46576563.19 46576563.33 0.0542 0.0051

Neptune 122811-04-01 21:48 G 46576947.36 46576947.41 46576947.48 0.0089 0.0082

Neptune 122811-06-28 23:57 G 46577035.43 46577035.50 46577035.61 0.0089 0.0075

Neptune 122811-09-25 02:36 G 46577123.51 46577123.61 46577123.73 0.0089 0.0067

Neptune 122811-12-22 05:00 G 46577211.60 46577211.71 46577211.85 0.0089 0.0059

Neptune 122812-03-19 07:38 G 46577299.69 46577299.82 46577299.97 0.0089 0.0051

Neptune 122812-06-15 10:02 G 46577387.79 46577387.92 46577388.08 0.0089 0.0043

Neptune 122812-09-11 12:55 G 46577475.89 46577476.04 46577476.19 0.0089 0.0034

Earth 122812-11-04 20:21 G 46577530.23 46577530.35 46577530.47 0.2684 0.0248

Moon 122812-11-04 21:05 G 46577530.25 46577530.38 46577530.50 0.2680 0.0117 *

Neptune 122812-12-08 15:33 G 46577563.99 46577564.15 46577564.31 0.0089 0.0026

Neptune 122813-03-06 17:57 G 46577652.09 46577652.25 46577652.42 0.0089 0.0018

Neptune 122813-06-02 20:36 G 46577740.19 46577740.36 46577740.53 0.0089 0.0010

Venus 122813-06-04 09:48 G 46577741.78 46577741.91 46577742.05 0.3646 0.0231

Neptune 122813-08-29 23:14 G 46577828.30 46577828.47 46577828.64 0.0089 0.0002

Neptune 122813-11-26 01:38 G 46577916.41 46577916.57 46577916.74 0.0089 0.0007

Neptune 122814-02-22 04:17 G 46578004.52 46578004.68 46578004.85 0.0089 0.0015

Neptune 122814-05-21 06:55 G 46578092.63 46578092.79 46578092.96 0.0089 0.0023

Neptune 122814-08-17 09:19 G 46578180.74 46578180.89 46578181.06 0.0089 0.0032

Neptune 122814-11-13 12:12 G 46578268.86 46578269.01 46578269.16 0.0089 0.0040

Neptune 122815-02-09 14:36 G 46578356.98 46578357.11 46578357.27 0.0089 0.0049

Neptune 122815-05-08 17:14 G 46578445.10 46578445.22 46578445.37 0.0089 0.0057

Neptune 122815-08-04 20:21 G 46578533.23 46578533.35 46578533.46 0.0089 0.0065

Neptune 122815-10-31 22:45 G 46578621.37 46578621.45 46578621.55 0.0089 0.0074

Neptune 122816-01-28 01:09 G 46578709.51 46578709.55 46578709.63 0.0089 0.0083

Jupiter 122816-04-23 15:19 G 46578795.98 46578796.14 46578796.31 0.0486 0.0036

Saturn 122817-11-24 11:00 G 46579375.86 46579375.96 46579376.08 0.0276 0.0186

Saturn 122818-02-21 01:09 G 46579464.41 46579464.55 46579464.70 0.0276 0.0033

Saturn 122818-05-20 15:05 G 46579553.00 46579553.13 46579553.26 0.0276 0.0119

Saturn 122818-08-17 04:45 G 46579641.67 46579641.70 46579641.73 0.0276 0.0268

Venus 122818-12-19 10:31 G 46579765.89 46579765.94 46579766.00 0.3650 0.3252

Mars 122820-11-24 22:02 G 46580472.28 46580472.42 46580472.56 0.1590 0.0657

Jupiter 122821-12-30 17:57 G 46580873.13 46580873.25 46580873.38 0.0543 0.0252

Jupiter 122822-03-30 09:05 G 46580962.85 46580962.88 46580962.92 0.0541 0.0524

Mars 122823-09-11 19:24 G 46581493.26 46581493.31 46581493.35 0.1946 0.1794

Moon 122825-11-07 16:17 G 46582281.09 46582281.18 46582281.27 0.2676 0.1699

Earth 122825-11-07 16:31 G 46582281.11 46582281.19 46582281.28 0.2682 0.1779 *

Jupiter 122828-02-10 16:17 G 46583106.04 46583106.18 46583106.33 0.0485 0.0199

Jupiter 122828-05-10 10:02 G 46583195.86 46583195.92 46583195.98 0.0487 0.0453

Mars 122830-04-17 03:19 G 46583902.49 46583902.64 46583902.79 0.1588 0.0376

Saturn 122832-09-06 01:38 G 46584775.43 46584775.57 46584775.71 0.0283 0.0139

Saturn 122832-12-03 18:41 G 46584864.13 46584864.28 46584864.45 0.0283 0.0039

Mars 122833-02-01 01:38 G 46584923.45 46584923.57 46584923.69 0.1949 0.0333

Saturn 122833-03-02 12:12 G 46584952.91 46584953.01 46584953.12 0.0283 0.0218

Jupiter 122833-10-18 19:38 G 46585183.25 46585183.32 46585183.40 0.0544 0.0449

Jupiter 122834-01-16 11:29 G 46585272.88 46585272.98 46585273.09 0.0542 0.0343

Uranus 122836-01-20 11:43 G 46586006.93 46586006.99 46586007.07 0.0141 0.0125

Uranus 122836-04-17 17:14 G 46586095.12 46586095.22 46586095.34 0.0141 0.0102

Uranus 122836-07-14 22:45 G 46586183.32 46586183.45 46586183.59 0.0141 0.0079

Uranus 122836-10-11 04:31 G 46586271.54 46586271.69 46586271.84 0.0141 0.0055

Uranus 122837-01-07 10:02 G 46586359.77 46586359.92 46586360.09 0.0140 0.0032

Uranus 122837-04-05 15:48 G 46586448.00 46586448.16 46586448.33 0.0140 0.0008

Uranus 122837-07-02 21:33 G 46586536.23 46586536.40 46586536.56 0.0140 0.0016

Uranus 122837-09-29 03:05 G 46586624.48 46586624.63 46586624.80 0.0140 0.0040

Uranus 122837-12-26 08:50 G 46586712.73 46586712.87 46586713.03 0.0140 0.0064

Uranus 122838-03-24 14:36 G 46586800.99 46586801.11 46586801.25 0.0140 0.0088

Uranus 122838-06-20 20:36 G 46586889.27 46586889.36 46586889.46 0.0140 0.0112

Uranus 122838-09-17 02:21 G 46586977.58 46586977.60 46586977.64 0.0140 0.0137

Mars 122839-09-07 08:50 G 46587332.80 46587332.87 46587332.94 0.1587 0.1387

Jupiter 122839-11-29 17:57 G 46587416.14 46587416.25 46587416.36 0.0485 0.0353

Jupiter 122840-02-27 11:00 G 46587505.83 46587505.96 46587506.09 0.0486 0.0288

Venus 122840-10-14 05:14 G 46587735.64 46587735.72 46587735.80 0.3734 0.2611

Moon 122841-05-10 14:21 G 46587943.97 46587944.10 46587944.23 0.2654 0.0765

Earth 122841-05-10 15:05 G 46587944.00 46587944.13 46587944.26 0.2649 0.0671 *

Mars 122842-06-24 07:24 G 46588353.71 46588353.81 46588353.90 0.1951 0.1219

Moon 122845-11-03 04:45 G 46589581.62 46589581.70 46589581.79 0.2679 0.1941

Earth 122845-11-03 05:00 G 46589581.62 46589581.71 46589581.79 0.2686 0.1876 *

Jupiter 122845-11-04 14:07 G 46589582.95 46589583.09 46589583.22 0.0542 0.0162

Venus 122846-04-29 23:43 G 46589759.38 46589759.49 46589759.60 0.3731 0.0583

Saturn 122847-04-13 11:29 G 46590107.91 46590107.98 46590108.06 0.0276 0.0240

Saturn 122847-07-11 01:53 G 46590196.43 46590196.58 46590196.72 0.0276 0.0085

Saturn 122847-10-07 15:48 G 46590285.01 46590285.16 46590285.30 0.0276 0.0067

Saturn 122848-01-04 05:29 G 46590373.64 46590373.73 46590373.82 0.0276 0.0216

Venus 122851-11-13 17:57 G 46591783.15 46591783.25 46591783.35 0.3727 0.1374

Jupiter 122851-12-16 12:12 G 46591815.85 46591816.01 46591816.16 0.0486 0.0125

Earth 122854-05-13 15:05 G 46592695.03 46592695.13 46592695.23 0.2651 0.1806

Moon 122854-05-13 16:02 G 46592695.08 46592695.17 46592695.26 0.2656 0.1957 *

Venus 122857-05-29 11:57 G 46593806.95 46593807.00 46593807.05 0.3723 0.3251

Jupiter 122857-08-23 15:48 G 46593893.02 46593893.16 46593893.31 0.0543 0.0036

Moon 122858-11-06 00:41 G 46594332.41 46594332.53 46594332.65 0.2682 0.0121

Earth 122858-11-06 01:24 G 46594332.44 46594332.56 46594332.69 0.2684 0.0213 *

Mars 122860-05-25 22:17 G 46594899.30 46594899.43 46594899.57 0.1590 0.0820

Saturn 122862-01-24 00:55 G 46595507.43 46595507.54 46595507.65 0.0283 0.0201

Saturn 122862-04-22 17:57 G 46595596.09 46595596.25 46595596.41 0.0283 0.0027

Saturn 122862-07-20 11:29 G 46595684.84 46595684.98 46595685.12 0.0282 0.0153

Jupiter 122863-10-04 13:38 G 46596125.91 46596126.07 46596126.23 0.0486 0.0032

Venus 122864-06-25 09:33 G 46596390.78 46596390.90 46596391.01 0.3643 0.1765

Jupiter 122869-06-11 16:31 G 46598203.06 46598203.19 46598203.32 0.0543 0.0249

Jupiter 122869-09-09 07:38 G 46598292.80 46598292.82 46598292.85 0.0541 0.0527

Mars 122869-10-16 03:48 G 46598329.51 46598329.66 46598329.81 0.1588 0.0212

Venus 122870-01-09 09:48 G 46598414.78 46598414.91 46598415.04 0.3647 0.1153

Pluto 122870-12-01 21:19 G 46598741.34 46598741.39 46598741.45 0.0085 0.0078

Pluto 122871-02-27 22:31 G 46598829.36 46598829.44 46598829.54 0.0085 0.0061

Pluto 122871-05-26 23:57 G 46598917.39 46598917.50 46598917.62 0.0085 0.0043

Pluto 122871-08-23 01:24 G 46599005.43 46599005.56 46599005.68 0.0085 0.0027

Moon 122871-11-08 21:19 G 46599083.32 46599083.39 46599083.47 0.2688 0.2078

Earth 122871-11-08 21:48 G 46599083.34 46599083.41 46599083.48 0.2682 0.2191 *

Pluto 122871-11-19 02:36 G 46599093.48 46599093.61 46599093.74 0.0085 0.0010

Pluto 122872-02-15 03:48 G 46599181.53 46599181.66 46599181.79 0.0085 0.0007

Pluto 122872-05-13 05:00 G 46599269.59 46599269.71 46599269.84 0.0085 0.0024

Mars 122872-08-02 01:38 G 46599350.45 46599350.57 46599350.69 0.1949 0.0490

Pluto 122872-08-09 06:12 G 46599357.65 46599357.76 46599357.88 0.0085 0.0041

Pluto 122872-11-05 07:09 G 46599445.72 46599445.80 46599445.91 0.0085 0.0058

Pluto 122873-02-01 08:36 G 46599533.81 46599533.86 46599533.93 0.0084 0.0074

Earth 122874-05-08 21:05 G 46599995.35 46599995.38 46599995.41 0.2647 0.2573

Moon 122874-05-08 21:33 G 46599995.37 46599995.40 46599995.42 0.2653 0.2583 *

Jupiter 122875-07-23 15:05 G 46600435.99 46600436.13 46600436.28 0.0486 0.0189

Jupiter 122875-10-21 08:50 G 46600525.82 46600525.87 46600525.92 0.0487 0.0464

Saturn 122876-08-30 14:07 G 46600840.07 46600840.09 46600840.12 0.0277 0.0271

Saturn 122876-11-27 04:31 G 46600928.56 46600928.69 46600928.83 0.0277 0.0115

Saturn 122877-02-23 18:41 G 46601017.13 46601017.28 46601017.42 0.0277 0.0038

Saturn 122877-05-23 08:21 G 46601105.74 46601105.85 46601105.96 0.0277 0.0189

Mars 122879-03-08 09:19 G 46601759.80 46601759.89 46601759.99 0.1587 0.1221

Uranus 122879-04-25 14:07 G 46601808.03 46601808.09 46601808.14 0.0137 0.0127

Uranus 122879-07-22 18:26 G 46601896.18 46601896.27 46601896.37 0.0137 0.0106

Uranus 122879-10-18 23:00 G 46601984.34 46601984.46 46601984.58 0.0137 0.0085

Uranus 122880-01-15 03:33 G 46602072.52 46602072.65 46602072.78 0.0137 0.0065

Uranus 122880-04-12 07:53 G 46602160.69 46602160.83 46602160.98 0.0137 0.0044

Uranus 122880-07-09 12:12 G 46602248.87 46602249.01 46602249.16 0.0137 0.0024

Uranus 122880-10-05 16:45 G 46602337.05 46602337.20 46602337.35 0.0138 0.0004

Uranus 122881-01-01 21:05 G 46602425.23 46602425.38 46602425.53 0.0138 0.0017

Jupiter 122881-03-30 17:43 G 46602513.16 46602513.24 46602513.32 0.0543 0.0456

Uranus 122881-03-31 01:24 G 46602513.42 46602513.56 46602513.70 0.0138 0.0037

Uranus 122881-06-27 05:43 G 46602601.60 46602601.74 46602601.87 0.0138 0.0057

Jupiter 122881-06-28 09:33 G 46602602.79 46602602.90 46602603.01 0.0542 0.0335

Uranus 122881-09-23 09:48 G 46602689.79 46602689.91 46602690.04 0.0138 0.0077

Uranus 122881-12-20 13:53 G 46602777.99 46602778.08 46602778.19 0.0138 0.0097

Mars 122881-12-23 07:38 G 46602780.71 46602780.82 46602780.92 0.1952 0.1031

Uranus 122882-03-18 18:12 G 46602866.19 46602866.26 46602866.34 0.0138 0.0117

Uranus 122882-06-14 22:17 G 46602954.42 46602954.43 46602954.46 0.0138 0.0137

Jupiter 122887-05-11 16:17 G 46604746.07 46604746.18 46604746.29 0.0485 0.0352

Earth 122887-05-11 20:50 G 46604746.23 46604746.37 46604746.50 0.2649 0.0197 *

Moon 122887-05-11 21:48 G 46604746.28 46604746.41 46604746.55 0.2647 0.0064 *

Jupiter 122887-08-09 09:19 G 46604835.76 46604835.89 46604836.02 0.0486 0.0290

Saturn 122891-06-13 03:19 G 46606239.55 46606239.64 46606239.73 0.0283 0.0232

Saturn 122891-09-09 20:21 G 46606328.19 46606328.35 46606328.50 0.0283 0.0058

Moon 122891-11-04 09:33 G 46606383.80 46606383.90 46606383.99 0.2690 0.1634

Earth 122891-11-04 10:02 G 46606383.82 46606383.92 46606384.03 0.2686 0.1441 *

Saturn 122891-12-07 13:38 G 46606416.92 46606417.07 46606417.22 0.0283 0.0120

Neptune 122892-01-31 00:41 G 46606471.49 46606471.53 46606471.61 0.0088 0.0082

Neptune 122892-04-28 02:50 G 46606559.55 46606559.62 46606559.71 0.0088 0.0074

Neptune 122892-07-25 04:45 G 46606647.61 46606647.70 46606647.81 0.0088 0.0067

Neptune 122892-10-21 06:26 G 46606735.68 46606735.77 46606735.90 0.0088 0.0060

Neptune 122893-01-17 08:36 G 46606823.74 46606823.86 46606823.99 0.0088 0.0052

Neptune 122893-04-15 10:31 G 46606911.81 46606911.94 46606912.07 0.0088 0.0044

Jupiter 122893-04-16 11:29 G 46606912.85 46606912.98 46606913.12 0.0543 0.0148

Neptune 122893-07-12 12:12 G 46606999.88 46607000.01 46607000.16 0.0088 0.0038

Neptune 122893-10-08 14:07 G 46607087.96 46607088.09 46607088.24 0.0088 0.0030

Neptune 122894-01-04 16:02 G 46607176.03 46607176.17 46607176.32 0.0088 0.0023

Neptune 122894-04-02 17:57 G 46607264.10 46607264.25 46607264.40 0.0088 0.0016

Neptune 122894-06-29 19:53 G 46607352.18 46607352.33 46607352.47 0.0088 0.0009

Neptune 122894-09-25 21:33 G 46607440.25 46607440.40 46607440.55 0.0088 0.0002

Neptune 122894-12-22 23:29 G 46607528.33 46607528.48 46607528.62 0.0088 0.0006

Neptune 122895-03-21 01:09 G 46607616.41 46607616.55 46607616.70 0.0088 0.0013

Neptune 122895-06-17 02:50 G 46607704.48 46607704.62 46607704.77 0.0088 0.0020

Neptune 122895-09-13 04:45 G 46607792.56 46607792.70 46607792.84 0.0088 0.0027

Neptune 122895-12-10 06:26 G 46607880.64 46607880.77 46607880.91 0.0088 0.0034

Neptune 122896-03-07 08:07 G 46607968.72 46607968.84 46607968.98 0.0088 0.0041

Neptune 122896-06-03 09:48 G 46608056.80 46608056.91 46608057.04 0.0088 0.0049

Neptune 122896-08-30 11:29 G 46608144.88 46608144.98 46608145.11 0.0088 0.0056

Neptune 122896-11-26 13:09 G 46608232.96 46608233.05 46608233.17 0.0088 0.0063

Neptune 122897-02-22 15:19 G 46608321.05 46608321.14 46608321.23 0.0088 0.0069

Venus 122897-05-21 03:33 G 46608408.55 46608408.65 46608408.74 0.3733 0.1942

Neptune 122897-05-21 17:00 G 46608409.14 46608409.21 46608409.28 0.0088 0.0076

Neptune 122897-08-17 18:26 G 46608497.23 46608497.27 46608497.33 0.0088 0.0083

Jupiter 122899-05-28 10:31 G 46609145.78 46609145.94 46609146.09 0.0486 0.0127

Mars 122899-11-24 23:00 G 46609326.34 46609326.46 46609326.58 0.1590 0.0992

Moon 122900-05-14 21:05 G 46609497.31 46609497.38 46609497.44 0.2645 0.2280

Earth 122900-05-14 20:50 G 46609497.31 46609497.37 46609497.43 0.2651 0.2327 *

Venus 122902-12-05 21:48 G 46610432.30 46610432.41 46610432.53 0.3730 0.0157

Earth 122904-11-07 06:41 G 46611134.66 46611134.78 46611134.90 0.2684 0.0612

Moon 122904-11-07 07:09 G 46611134.68 46611134.80 46611134.91 0.2690 0.0776 *

Jupiter 122905-02-03 13:53 G 46611222.94 46611223.08 46611223.22 0.0543 0.0040

Saturn 122906-04-17 05:29 G 46611660.61 46611660.73 46611660.85 0.0276 0.0164

Saturn 122906-07-14 19:38 G 46611749.17 46611749.32 46611749.47 0.0276 0.0011

Saturn 122906-10-11 09:33 G 46611837.77 46611837.90 46611838.02 0.0276 0.0140

Venus 122908-06-20 16:02 G 46612456.08 46612456.17 46612456.26 0.3726 0.2001

Mars 122909-04-17 04:02 G 46612756.52 46612756.67 46612756.83 0.1588 0.0071

Jupiter 122911-03-17 11:29 G 46613455.82 46613455.98 46613456.15 0.0486 0.0038

Mars 122912-02-02 01:38 G 46613777.46 46613777.57 46613777.69 0.1949 0.0666

Jupiter 122916-11-22 15:33 G 46615533.02 46615533.15 46615533.28 0.0543 0.0234

Earth 122917-11-10 02:50 G 46615885.60 46615885.62 46615885.65 0.2681 0.2605

Moon 122917-11-10 03:48 G 46615885.64 46615885.66 46615885.67 0.2678 0.2650 *

Mars 122918-09-07 09:48 G 46616186.79 46616186.91 46616187.02 0.1587 0.1064

Uranus 122919-11-14 13:53 G 46616620.08 46616620.08 46616620.09 0.0141 0.0140

Uranus 122920-02-10 19:09 G 46616708.22 46616708.30 46616708.40 0.0141 0.0118

Uranus 122920-05-09 00:41 G 46616796.42 46616796.53 46616796.66 0.0141 0.0095

Earth 122920-05-10 02:36 G 46616797.53 46616797.61 46616797.69 0.2647 0.2091

Moon 122920-05-10 03:05 G 46616797.55 46616797.63 46616797.71 0.2641 0.2103 *

Uranus 122920-08-05 06:26 G 46616884.63 46616884.77 46616884.91 0.0141 0.0071

Uranus 122920-11-01 11:57 G 46616972.85 46616973.00 46616973.16 0.0141 0.0048

Saturn 122921-01-27 19:24 G 46617060.17 46617060.31 46617060.46 0.0283 0.0122

Uranus 122921-01-28 17:43 G 46617061.08 46617061.24 46617061.40 0.0140 0.0024

Venus 122921-01-31 09:19 G 46617063.76 46617063.89 46617064.02 0.3644 0.0870

Saturn 122921-04-26 12:41 G 46617148.87 46617149.03 46617149.19 0.0282 0.0055

Uranus 122921-04-26 23:14 G 46617149.31 46617149.47 46617149.64 0.0140 0.0004

Mars 122921-06-24 07:53 G 46617207.72 46617207.83 46617207.94 0.1951 0.0850

Uranus 122921-07-24 05:00 G 46617237.55 46617237.71 46617237.88 0.0140 0.0023

Saturn 122921-07-24 06:12 G 46617237.68 46617237.76 46617237.85 0.0282 0.0236 *

Uranus 122921-10-20 10:45 G 46617325.79 46617325.95 46617326.11 0.0140 0.0047

Uranus 122922-01-16 16:31 G 46617414.05 46617414.19 46617414.34 0.0140 0.0072

Uranus 122922-04-14 22:02 G 46617502.31 46617502.42 46617502.56 0.0140 0.0096

Uranus 122922-07-12 04:02 G 46617590.60 46617590.67 46617590.76 0.0140 0.0120

Jupiter 122923-01-03 13:09 G 46617765.91 46617766.05 46617766.20 0.0485 0.0190

Jupiter 122923-04-03 06:55 G 46617855.74 46617855.79 46617855.84 0.0487 0.0464

Venus 122926-08-17 09:48 G 46619087.80 46619087.91 46619088.02 0.3648 0.2122

Jupiter 122928-09-10 16:02 G 46619843.10 46619843.17 46619843.25 0.0543 0.0454

Jupiter 122928-12-09 07:53 G 46619932.73 46619932.83 46619932.94 0.0541 0.0337

Moon 122933-05-13 01:24 G 46621548.43 46621548.56 46621548.70 0.2645 0.0281

Earth 122933-05-13 02:21 G 46621548.47 46621548.60 46621548.74 0.2649 0.0327 *

Jupiter 122934-10-22 14:50 G 46622076.01 46622076.12 46622076.23 0.0485 0.0346

Jupiter 122935-01-20 07:53 G 46622165.70 46622165.83 46622165.96 0.0487 0.0298

Saturn 122935-09-04 07:53 G 46622392.73 46622392.83 46622392.94 0.0277 0.0197

Saturn 122935-12-01 22:17 G 46622481.28 46622481.43 46622481.58 0.0277 0.0042

Saturn 122936-02-28 12:12 G 46622569.87 46622570.01 46622570.14 0.0277 0.0110

Saturn 122936-05-27 01:53 G 46622658.53 46622658.58 46622658.63 0.0277 0.0259

Earth 122937-11-05 15:19 G 46623186.03 46623186.14 46623186.25 0.2686 0.1009

Moon 122937-11-05 16:17 G 46623186.07 46623186.18 46623186.30 0.2685 0.0915 *

Mars 122939-05-26 23:14 G 46623753.37 46623753.47 46623753.58 0.1590 0.1160

Jupiter 122940-09-27 09:33 G 46624242.76 46624242.90 46624243.04 0.0542 0.0139

Moon 122946-05-16 01:38 G 46626299.55 46626299.57 46626299.59 0.2657 0.2616

Jupiter 122946-11-08 08:36 G 46626475.70 46626475.86 46626476.02 0.0486 0.0126

Venus 122948-06-12 07:09 G 46627057.75 46627057.80 46627057.85 0.3736 0.3346

Mars 122948-10-16 04:45 G 46627183.55 46627183.70 46627183.85 0.1588 0.0123

Saturn 122950-06-16 22:17 G 46627792.30 46627792.43 46627792.57 0.0283 0.0147

Saturn 122950-09-13 15:33 G 46627880.99 46627881.15 46627881.31 0.0283 0.0029

Earth 122950-11-08 11:57 G 46627936.88 46627937.00 46627937.11 0.2683 0.1042

Moon 122950-11-08 11:57 G 46627936.89 46627937.00 46627937.11 0.2677 0.1112 *

Saturn 122950-12-11 08:50 G 46627969.77 46627969.87 46627969.98 0.0283 0.0208

Mars 122951-08-03 01:53 G 46628204.47 46628204.58 46628204.69 0.1949 0.0835

Jupiter 122952-07-16 11:29 G 46628552.83 46628552.98 46628553.12 0.0543 0.0058

Venus 122953-12-27 01:38 G 46629081.47 46629081.57 46629081.68 0.3732 0.1290

Mars 122958-03-08 10:02 G 46630613.80 46630613.92 46630614.05 0.1587 0.0900

Jupiter 122958-08-27 09:48 G 46630785.75 46630785.91 46630786.07 0.0485 0.0035

Venus 122959-07-12 20:07 G 46631105.23 46631105.34 46631105.45 0.3729 0.0705

Mars 122960-12-23 07:53 G 46631634.71 46631634.83 46631634.94 0.1951 0.0697

Uranus 122963-05-16 21:48 G 46632509.34 46632509.41 46632509.49 0.0137 0.0119

Uranus 122963-08-13 02:07 G 46632597.49 46632597.59 46632597.71 0.0137 0.0098

Uranus 122963-11-09 06:41 G 46632685.66 46632685.78 46632685.91 0.0137 0.0077

Uranus 122964-02-05 11:14 G 46632773.83 46632773.97 46632774.11 0.0137 0.0057

Uranus 122964-05-03 15:33 G 46632862.01 46632862.15 46632862.30 0.0137 0.0037

Jupiter 122964-05-04 13:24 G 46632862.93 46632863.06 46632863.19 0.0543 0.0246

Uranus 122964-07-30 20:07 G 46632950.19 46632950.34 46632950.49 0.0137 0.0016

Jupiter 122964-08-02 04:45 G 46632952.68 46632952.70 46632952.72 0.0542 0.0533

Uranus 122964-10-27 00:26 G 46633038.37 46633038.52 46633038.67 0.0138 0.0005

Saturn 122965-01-21 09:05 G 46633124.82 46633124.88 46633124.96 0.0276 0.0243

Uranus 122965-01-23 04:45 G 46633126.56 46633126.70 46633126.85 0.0138 0.0025

Venus 122965-01-25 14:07 G 46633129.01 46633129.09 46633129.17 0.3725 0.2615

Saturn 122965-04-19 23:29 G 46633213.34 46633213.48 46633213.63 0.0276 0.0088

Uranus 122965-04-21 09:05 G 46633214.74 46633214.88 46633215.02 0.0138 0.0045

Saturn 122965-07-17 13:38 G 46633301.92 46633302.07 46633302.21 0.0276 0.0065

Uranus 122965-07-18 13:24 G 46633302.93 46633303.06 46633303.19 0.0138 0.0065

Saturn 122965-10-14 03:19 G 46633390.55 46633390.64 46633390.73 0.0276 0.0214

Uranus 122965-10-14 17:29 G 46633391.12 46633391.23 46633391.35 0.0138 0.0085

Uranus 122966-01-10 21:48 G 46633479.32 46633479.41 46633479.51 0.0138 0.0105

Uranus 122966-04-09 02:07 G 46633567.53 46633567.59 46633567.65 0.0138 0.0124

Moon 122966-05-11 06:55 G 46633599.70 46633599.79 46633599.89 0.2649 0.1854

Earth 122966-05-11 08:07 G 46633599.74 46633599.84 46633599.95 0.2647 0.1605 *

Jupiter 122970-06-15 11:00 G 46635095.82 46635095.96 46635096.11 0.0485 0.0195

Jupiter 122970-09-13 04:45 G 46635185.64 46635185.70 46635185.75 0.0487 0.0457

Moon 122970-11-04 00:26 G 46635237.48 46635237.52 46635237.55 0.2682 0.2571

Earth 122970-11-03 23:57 G 46635237.49 46635237.50 46635237.50 0.2688 0.2673 *

Venus 122972-02-22 09:05 G 46635712.79 46635712.88 46635712.96 0.3642 0.2783

Neptune 122975-10-01 17:29 G 46637030.22 46637030.23 46637030.27 0.0089 0.0088

Neptune 122975-12-28 19:53 G 46637118.28 46637118.33 46637118.42 0.0089 0.0080

Jupiter 122976-02-21 15:05 G 46637173.05 46637173.13 46637173.21 0.0544 0.0443

Neptune 122976-03-25 22:31 G 46637206.36 46637206.44 46637206.55 0.0089 0.0072

Jupiter 122976-05-21 06:55 G 46637262.69 46637262.79 46637262.90 0.0542 0.0349

Neptune 122976-06-22 00:55 G 46637294.44 46637294.54 46637294.67 0.0089 0.0064

Neptune 122976-09-18 03:33 G 46637382.53 46637382.65 46637382.79 0.0089 0.0056

Neptune 122976-12-15 05:57 G 46637470.62 46637470.75 46637470.90 0.0089 0.0048

Neptune 122977-03-13 08:36 G 46637558.72 46637558.86 46637559.01 0.0089 0.0040

Neptune 122977-06-09 11:00 G 46637646.81 46637646.96 46637647.13 0.0089 0.0032

Neptune 122977-09-05 13:38 G 46637734.91 46637735.07 46637735.24 0.0089 0.0024

Venus 122977-09-07 09:05 G 46637736.74 46637736.88 46637737.01 0.3646 0.0087

Neptune 122977-12-02 16:17 G 46637823.01 46637823.18 46637823.35 0.0089 0.0016

Neptune 122978-02-28 18:41 G 46637911.12 46637911.28 46637911.45 0.0089 0.0008

Neptune 122978-05-27 21:19 G 46637999.22 46637999.39 46637999.56 0.0089 0.0002

Neptune 122978-08-23 23:57 G 46638087.33   46638087.50   46638087.67 0.0089 0.0009

Neptune 122978-11-20 02:36 G 46638175.44   46638175.61   46638175.78 0.0089 0.0017

Mars   122978-11-24 23:43 G 46638180.41   46638180.49   46638180.58 0.1590 0.1326

Neptune 122979-02-16 05:00 G 46638263.56   46638263.71   46638263.88 0.0089 0.0026

Earth   122979-05-14 07:53 G 46638350.70   46638350.83   46638350.96 0.2650 0.0825

Moon   122979-05-14 08:07 G 46638350.72   46638350.84   46638350.97 0.2656 0.0950 *

Neptune 122979-05-15 07:38 G 46638351.67   46638351.82   46638351.98 0.0089 0.0034

Neptune 122979-08-11 10:31 G 46638439.79   46638439.94   46638440.09 0.0089 0.0042

Saturn   122979-11-03 21:33 G 46638524.30   46638524.40   46638524.51 0.0283 0.0211

Neptune 122979-11-07 12:55 G 46638527.91   46638528.04   46638528.19 0.0089 0.0051

Saturn   122980-01-31 14:36 G 46638612.95   46638613.11   46638613.27 0.0282 0.0036

Neptune 122980-02-03 15:33 G 46638616.03   46638616.15   46638616.29 0.0089 0.0059

Saturn   122980-04-29 07:53 G 46638701.69   46638701.83   46638701.97 0.0282 0.0142

Neptune 122980-05-01 18:12 G 46638704.16   46638704.26   46638704.38 0.0089 0.0068

Neptune 122980-07-28 21:05 G 46638792.30   46638792.38   46638792.47 0.0089 0.0076

Neptune 122980-10-24 23:29 G 46638880.45   46638880.48   46638880.54 0.0089 0.0085

Jupiter 122982-04-03 12:55 G 46639405.93   46639406.04   46639406.15 0.0485 0.0346

Jupiter 122982-07-02 05:57 G 46639495.62   46639495.75   46639495.88 0.0487 0.0296

Venus   122983-03-24 09:33 G 46639760.83   46639760.90   46639760.97 0.3649 0.3086

Moon   122983-11-06 19:53 G 46639988.21   46639988.33   46639988.45 0.2681 0.0695

Earth   122983-11-06 20:36 G 46639988.24   46639988.36   46639988.48 0.2685 0.0578 *

Jupiter 122988-03-09 08:07 G 46641572.70   46641572.84   46641572.98 0.0542 0.0142

Mars   122988-04-16 05:14 G 46641610.56   46641610.72   46641610.87 0.1589 0.0290

Mars   122991-02-01 02:07 G 46642631.48   46642631.59   46642631.69 0.1948 0.1007

Jupiter 122994-04-20 06:55 G 46643805.64   46643805.79   46643805.95 0.0486 0.0133

Saturn   122994-09-07 01:53 G 46643945.45   46643945.58   46643945.72 0.0277 0.0122

Saturn   122994-12-04 16:02 G 46644034.02   46644034.17   46644034.32 0.0277 0.0032

Saturn   122995-03-03 05:43 G 46644122.64   46644122.74   46644122.86 0.0277 0.0183

Moon   122996-11-08 16:17 G 46644739.07   46644739.18   46644739.28 0.2686 0.1340

Earth   122996-11-08 17:00 G 46644739.11   46644739.21   46644739.31 0.2683 0.1456 *

Mars 122997-09-06 10:31 G 46645040.81 46645040.94 46645041.08 0.1587 0.0736

Jupiter 122999-12-27 09:33 G 46645882.76 46645882.90 46645883.04 0.0542 0.0062

Mars 123000-06-24 07:53 G 46646061.71 46646061.83 46646061.95 0.1951 0.0519

124TH MILLENNIUM CE

This is a list of transits of Mercury in the 124th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Uranus 123003-12-05 21:33 G 46647321.36 46647321.40 46647321.46 0.0141 0.0132

Uranus 123004-03-03 03:05 G 46647409.54 46647409.63 46647409.74 0.0141 0.0109

Uranus 123004-05-30 08:36 G 46647497.74 46647497.86 46647498.00 0.0141 0.0086

Uranus 123004-08-26 14:07 G 46647585.95 46647586.09 46647586.25 0.0141 0.0063

Uranus 123004-11-22 19:53 G 46647674.17 46647674.33 46647674.49 0.0141 0.0039

Venus 123005-01-18 05:29 G 46647730.65 46647730.73 46647730.81 0.3735 0.2668

Uranus 123005-02-19 01:38 G 46647762.40 46647762.57 46647762.73 0.0140 0.0015

Uranus 123005-05-18 07:09 G 46647850.64 46647850.80 46647850.97 0.0140 0.0009

Uranus 123005-08-14 12:55 G 46647938.88 46647939.04 46647939.20 0.0140 0.0032

Uranus 123005-11-10 18:41 G 46648027.13 46648027.28 46648027.43 0.0140 0.0056

Uranus 123006-02-07 00:26 G 46648115.39 46648115.52 46648115.66 0.0140 0.0080

Jupiter 123006-02-07 07:53 G 46648115.67 46648115.83 46648115.99 0.0486 0.0037

Uranus 123006-05-06 05:57 G 46648203.65 46648203.75 46648203.87 0.0140 0.0105

Uranus 123006-08-02 11:57 G 46648291.95 46648292.00 46648292.07 0.0140 0.0129

Saturn 123009-03-24 00:41 G 46649256.45 46649256.53 46649256.62 0.0283 0.0234

Saturn 123009-06-20 17:43 G 46649345.08 46649345.24 46649345.40 0.0283 0.0060

Saturn 123009-09-17 11:00 G 46649433.81 46649433.96 46649434.11 0.0283 0.0117

Venus 123010-08-03 23:57 G 46649754.39 46649754.50 46649754.61 0.3732 0.0637

Jupiter 123011-10-16 10:45 G 46650192.83 46650192.95 46650193.08 0.0543 0.0264

Jupiter 123012-01-14 02:21 G 46650282.56 46650282.60 46650282.64 0.0542 0.0518

Earth 123012-05-12 13:53 G 46650401.95 46650402.08 46650402.20 0.2648 0.1113

Moon 123012-05-12 14:50 G 46650402.00 46650402.12 46650402.25 0.2650 0.0987 *

Venus 123016-02-17 18:12 G 46651778.16 46651778.26 46651778.37 0.3728 0.1337

Moon 123016-11-05 04:17 G 46652039.63 46652039.68 46652039.73 0.2688 0.2424

Earth 123016-11-05 05:14 G 46652039.65 46652039.72 46652039.78 0.2687 0.2227 *

Jupiter 123017-11-26 09:19 G 46652425.74 46652425.89 46652426.04 0.0485 0.0194

Jupiter 123018-02-24 02:36 G 46652515.56 46652515.61 46652515.67 0.0487 0.0456

Mars 123018-05-27 00:12 G 46652607.47 46652607.51 46652607.56 0.1590 0.1500

Pluto 123021-04-28 22:17 G 46653675.35 46653675.43 46653675.51 0.0058 0.0053

Pluto 123021-07-25 23:00 G 46653763.36 46653763.46 46653763.61 0.0058 0.0046

Venus 123021-09-02 12:12 G 46653801.96 46653802.01 46653802.06 0.3724 0.3211

Pluto 123021-10-22 00:26 G 46653851.39 46653851.52 46653851.69 0.0058 0.0037

Pluto 123022-01-18 02:21 G 46653939.43 46653939.60 46653939.77 0.0058 0.0029

Pluto 123022-04-16 03:33 G 46654027.47 46654027.65 46654027.83 0.0059 0.0021

Pluto 123022-07-13 04:45 G 46654115.51 46654115.70 46654115.90 0.0059 0.0013

Pluto 123022-10-09 06:12 G 46654203.56 46654203.76 46654203.95 0.0059 0.0005

Pluto 123023-01-05 07:24 G 46654291.62 46654291.81 46654292.01 0.0059 0.0004

Pluto 123023-04-03 08:36 G 46654379.68 46654379.86 46654380.06 0.0059 0.0012

Pluto 123023-06-30 09:48 G 46654467.74 46654467.91 46654468.11 0.0059 0.0020

Jupiter 123023-08-04 12:41 G 46654502.96 46654503.03 46654503.11 0.0544 0.0457

Pluto 123023-09-26 11:14 G 46654555.81 46654555.97 46654556.15 0.0059 0.0028

Jupiter 123023-11-02 04:45 G 46654592.59 46654592.70 46654592.81 0.0542 0.0337

Pluto 123023-12-23 12:26 G 46654643.88 46654644.02 46654644.19 0.0059 0.0036

Saturn 123024-01-26 03:19 G 46654677.53 46654677.64 46654677.77 0.0276 0.0165

Pluto 123024-03-20 14:07 G 46654731.96 46654732.09 46654732.22 0.0059 0.0044

Saturn 123024-04-23 17:43 G 46654766.09 46654766.24 46654766.39 0.0276 0.0013

Pluto 123024-06-16 14:50 G 46654820.06 46654820.12 46654820.23 0.0059 0.0053

Saturn 123024-07-21 07:24 G 46654854.69 46654854.81 46654854.94 0.0276 0.0141

Earth 123025-05-15 13:38 G 46655152.95 46655153.07 46655153.19 0.2650 0.1329

Moon 123025-05-15 14:21 G 46655152.99 46655153.10 46655153.21 0.2645 0.1467 *

Mars 123027-10-17 05:29 G 46656037.58 46656037.73 46656037.88 0.1589 0.0447

Venus 123028-09-29 08:36 G 46656385.75 46656385.86 46656385.98 0.3643 0.1891

Jupiter 123029-09-14 10:45 G 46656735.84 46656735.95 46656736.06 0.0485 0.0352

Moon 123029-11-08 01:38 G 46656790.45 46656790.57 46656790.69 0.2692 0.0140

Earth 123029-11-08 01:53 G 46656790.45 46656790.58 46656790.70 0.2685 0.0165 *

Jupiter 123029-12-13 03:33 G 46656825.52 46656825.65 46656825.78 0.0486 0.0289

Mars 123030-08-03 02:07 G 46657058.49 46657058.59 46657058.68 0.1949 0.1165

Venus 123034-04-15 08:50 G 46658409.74 46658409.87 46658410.00 0.3646 0.1009

Jupiter 123035-08-21 06:55 G 46658902.65 46658902.79 46658902.92 0.0542 0.0150

Mars 123037-03-08 11:00 G 46659467.82 46659467.96 46659468.10 0.1587 0.0575

Saturn 123038-11-07 17:00 G 46660077.07 46660077.21 46660077.35 0.0283 0.0123

Saturn 123039-02-04 10:02 G 46660165.76 46660165.92 46660166.08 0.0282 0.0053

Saturn 123039-05-04 03:19 G 46660254.56 46660254.64 46660254.74 0.0282 0.0233

Mars 123039-12-24 08:07 G 46660488.72 46660488.84 46660488.97 0.1951 0.0334

Jupiter 123041-10-01 05:00 G 46661135.55 46661135.71 46661135.87 0.0486 0.0129

Earth 123042-11-10 22:17 G 46661541.34 46661541.43 46661541.51 0.2683 0.1875

Moon 123042-11-10 23:00 G 46661541.38 46661541.46 46661541.54 0.2683 0.2001 *

Mars 123046-07-29 16:45 G 46662898.18 46662898.20 46662898.21 0.1586 0.1573

Uranus 123047-03-11 00:55 G 46663122.51 46663122.54 46663122.59 0.0137 0.0131

Uranus 123047-06-07 05:14 G 46663210.65 46663210.72 46663210.82 0.0137 0.0111

Jupiter 123047-06-09 07:53 G 46663212.69 46663212.83 46663212.97 0.0542 0.0059

Uranus 123047-09-03 09:48 G 46663298.81 46663298.91 46663299.04 0.0137 0.0091

Uranus 123047-11-30 14:36 G 46663386.98 46663387.11 46663387.24 0.0137 0.0069

Uranus 123048-02-26 18:55 G 46663475.15 46663475.29 46663475.44 0.0137 0.0049

Uranus 123048-05-24 23:29 G 46663563.33 46663563.48 46663563.63 0.0137 0.0028

Uranus 123048-08-21 03:48 G 46663651.51 46663651.66 46663651.81 0.0137 0.0008

Uranus 123048-11-17 08:07 G 46663739.70 46663739.84 46663739.99 0.0138 0.0013

Uranus 123049-02-13 12:26 G 46663827.88 46663828.02 46663828.17 0.0138 0.0033

Uranus 123049-05-12 16:45 G 46663916.07 46663916.20 46663916.34 0.0138 0.0053

Mars 123049-05-15 13:53 G 46663919.05 46663919.08 46663919.10 0.1953 0.1901

Uranus 123049-08-08 21:05 G 46664004.26 46664004.38 46664004.51 0.0138 0.0073

Uranus 123049-11-05 01:24 G 46664092.45 46664092.56 46664092.67 0.0138 0.0092

Uranus 123050-02-01 05:29 G 46664180.65 46664180.73 46664180.82 0.0138 0.0112

Uranus 123050-04-30 09:33 G 46664268.87 46664268.90 46664268.95 0.0138 0.0132

Saturn 123053-06-14 05:14 G 46665409.63 46665409.72 46665409.83 0.0277 0.0203

Jupiter 123053-07-20 06:12 G 46665445.60 46665445.76 46665445.92 0.0486 0.0033

Saturn 123053-09-10 19:38 G 46665498.17 46665498.32 46665498.47 0.0277 0.0047

Saturn 123053-12-08 09:33 G 46665586.77 46665586.90 46665587.04 0.0277 0.0106

Saturn 123054-03-06 23:29 G 46665675.43 46665675.48 46665675.53 0.0277 0.0255

Neptune 123056-08-01 21:48 G 46666554.39 46666554.41 46666554.44 0.0089 0.0087

Neptune 123056-10-28 23:29 G 46666642.43 46666642.48 46666642.56 0.0088 0.0080

Neptune 123057-01-25 01:38 G 46666730.49 46666730.57 46666730.66 0.0088 0.0072

Neptune 123057-04-23 03:19 G 46666818.55 46666818.64 46666818.75 0.0088 0.0065

Neptune 123057-07-20 05:14 G 46666906.62 46666906.72 46666906.84 0.0088 0.0058

Neptune 123057-10-16 07:24 G 46666994.69 46666994.81 46666994.93 0.0088 0.0050

Neptune 123058-01-12 09:05 G 46667082.76 46667082.88 46667083.02 0.0088 0.0043

Neptune 123058-04-10 11:00 G 46667170.83 46667170.96 46667171.10 0.0088 0.0035

Moon 123058-05-13 19:09 G 46667204.16 46667204.30 46667204.43 0.2642 0.0633

Earth 123058-05-13 19:24 G 46667204.18 46667204.31 46667204.44 0.2648 0.0615 *

Neptune 123058-07-07 12:41 G 46667258.90 46667259.03 46667259.18 0.0088 0.0029

Neptune 123058-10-03 14:50 G 46667346.97 46667347.12 46667347.26 0.0088 0.0021

Neptune 123058-12-30 16:45 G 46667435.05 46667435.20 46667435.34 0.0088 0.0014

Jupiter 123059-03-28 09:05 G 46667522.76 46667522.88 46667523.01 0.0543 0.0265

Neptune 123059-03-28 18:26 G 46667523.12 46667523.27 46667523.42 0.0088 0.0007

Neptune 123059-06-24 20:21 G 46667611.20 46667611.35 46667611.50 0.0088 0.0001

Jupiter 123059-06-26 00:26 G 46667612.48 46667612.52 46667612.56 0.0541 0.0514

Neptune 123059-09-20 22:02 G 46667699.28 46667699.42 46667699.57 0.0088 0.0008

Neptune 123059-12-17 23:57 G 46667787.35 46667787.50 46667787.65 0.0088 0.0015

Neptune 123060-03-15 01:38 G 46667875.43 46667875.57 46667875.72 0.0088 0.0022

Neptune 123060-06-11 03:19 G 46667963.51 46667963.64 46667963.79 0.0088 0.0030

Neptune 123060-09-07 05:14 G 46668051.59 46668051.72 46668051.86 0.0088 0.0036

Neptune 123060-12-04 06:55 G 46668139.67 46668139.79 46668139.93 0.0088 0.0043

Neptune 123061-03-02 08:36 G 46668227.75 46668227.86 46668227.99 0.0088 0.0051

Neptune 123061-05-29 10:17 G 46668315.83 46668315.93 46668316.06 0.0088 0.0058

Venus 123061-08-25 03:33 G 46668403.56 46668403.65 46668403.75 0.3734 0.2016

Neptune 123061-08-25 12:12 G 46668403.92 46668404.01 46668404.12 0.0088 0.0064

Neptune 123061-11-21 13:53 G 46668492.01 46668492.08 46668492.18 0.0088 0.0071

Neptune 123062-02-17 15:48 G 46668580.10 46668580.16 46668580.23 0.0088 0.0078

Neptune 123062-05-16 17:29 G 46668668.20 46668668.23 46668668.27 0.0088 0.0085

Earth 123062-11-06 10:17 G 46668841.84 46668841.93 46668842.02 0.2687 0.1789

Moon 123062-11-06 11:14 G 46668841.87 46668841.97 46668842.06 0.2691 0.1737 *

Jupiter 123065-05-08 07:24 G 46669755.66 46669755.81 46669755.95 0.0485 0.0198

Jupiter 123065-08-06 00:41 G 46669845.48 46669845.53 46669845.59 0.0487 0.0453

Venus 123067-03-10 22:02 G 46670427.31 46670427.42 46670427.54 0.3731 0.0108

Mars 123067-04-17 05:57 G 46670464.61 46670464.75 46670464.89 0.1589 0.0620

Saturn 123068-03-26 20:07 G 46670809.20 46670809.34 46670809.47 0.0283 0.0147

Saturn 123068-06-23 13:09 G 46670897.89 46670898.05 46670898.21 0.0283 0.0028

Saturn 123068-09-20 06:26 G 46670986.67 46670986.77 46670986.89 0.0283 0.0208

Mars 123070-02-01 02:21 G 46671485.51 46671485.60 46671485.68 0.1948 0.1347

Jupiter 123071-01-14 10:02 G 46671832.86 46671832.92 46671833.00 0.0544 0.0475

Jupiter 123071-04-14 02:21 G 46671922.48 46671922.60 46671922.71 0.0542 0.0322

Moon 123071-05-16 18:12 G 46671955.15 46671955.26 46671955.36 0.2651 0.1638

Earth 123071-05-16 19:24 G 46671955.21 46671955.31 46671955.41 0.2650 0.1851 *

Venus 123072-09-23 16:17 G 46672451.09 46672451.18 46672451.27 0.3727 0.1948

Earth 123075-11-09 06:55 G 46673592.67 46673592.79 46673592.91 0.2685 0.0288

Moon 123075-11-09 07:38 G 46673592.70 46673592.82 46673592.94 0.2680 0.0453 *

Mars 123076-09-06 11:29 G 46673894.83 46673894.98 46673895.12 0.1587 0.0413

Jupiter 123077-02-24 08:50 G 46674065.76 46674065.87 46674065.98 0.0485 0.0352

Jupiter 123077-05-25 01:53 G 46674155.45 46674155.58 46674155.71 0.0486 0.0288

Mars 123079-06-24 08:07 G 46674915.72 46674915.84 46674915.96 0.1951 0.0182

Saturn 123082-11-01 07:24 G 46676141.74 46676141.81 46676141.88 0.0276 0.0241

Saturn 123083-01-28 21:48 G 46676230.26 46676230.41 46676230.55 0.0276 0.0086

Jupiter 123083-01-31 04:31 G 46676232.55 46676232.69 46676232.83 0.0543 0.0136

Saturn 123083-04-27 11:43 G 46676318.85 46676318.99 46676319.14 0.0276 0.0066

Saturn 123083-07-25 01:24 G 46676407.48 46676407.56 46676407.66 0.0276 0.0216

Venus 123085-05-06 08:21 G 46677058.72 46677058.85 46677058.98 0.3644 0.0984

Mars 123086-01-27 17:00 G 46677325.15 46677325.21 46677325.28 0.1586 0.1416

Uranus 123087-12-26 05:00 G 46678022.65 46678022.71 46678022.79 0.0141 0.0125

Uranus 123088-03-23 10:31 G 46678110.84 46678110.94 46678111.06 0.0141 0.0102

Uranus 123088-06-19 16:02 G 46678199.04 46678199.17 46678199.31 0.0141 0.0079

Uranus 123088-09-15 21:33 G 46678287.26 46678287.40 46678287.56 0.0141 0.0056

Moon 123088-11-11 03:05 G 46678343.56 46678343.63 46678343.70 0.2676 0.2164

Earth 123088-11-11 03:19 G 46678343.58 46678343.64 46678343.70 0.2683 0.2299 *

Mars 123088-11-13 13:53 G 46678346.03 46678346.08 46678346.14 0.1953 0.1717

Uranus 123088-12-13 03:19 G 46678375.48 46678375.64 46678375.80 0.0141 0.0032

Uranus 123089-03-11 08:50 G 46678463.71 46678463.87 46678464.04 0.0141 0.0009

Jupiter 123089-03-13 02:50 G 46678465.46 46678465.62 46678465.77 0.0486 0.0123

Uranus 123089-06-07 14:36 G 46678551.95 46678552.11 46678552.28 0.0140 0.0016

Uranus 123089-09-03 20:21 G 46678640.19 46678640.35 46678640.51 0.0140 0.0039

Uranus 123089-12-01 02:07 G 46678728.44 46678728.59 46678728.74 0.0140 0.0063

Uranus 123090-02-27 07:53 G 46678816.70 46678816.83 46678816.96 0.0140 0.0088

Uranus 123090-05-26 13:24 G 46678904.97 46678905.06 46678905.17 0.0140 0.0112

Uranus 123090-08-22 19:24 G 46678993.28 46678993.31 46678993.35 0.0140 0.0136

Venus 123090-11-20 08:50 G 46679082.75 46679082.87 46679082.98 0.3647 0.1974

Earth 123091-05-12 01:24 G 46679255.52 46679255.56 46679255.60 0.2646 0.2501

Jupiter 123094-11-19 06:26 G 46680542.63 46680542.77 46680542.92 0.0543 0.0056

Saturn 123097-08-13 19:24 G 46681541.20 46681541.31 46681541.41 0.0283 0.0210

Saturn 123097-11-10 12:12 G 46681629.85 46681630.01 46681630.17 0.0283 0.0036

Saturn 123098-02-07 05:29 G 46681718.59 46681718.73 46681718.87 0.0282 0.0141

Jupiter 123100-12-31 04:17 G 46682775.52 46682775.68 46682775.84 0.0486 0.0034

Moon 123104-05-15 00:26 G 46684006.39 46684006.52 46684006.66 0.2655 0.0139

Earth 123104-05-15 00:55 G 46684006.41 46684006.54 46684006.68 0.2648 0.0148 *

Jupiter 123106-09-08 07:38 G 46684852.70 46684852.82 46684852.95 0.0543 0.0262

Mars 123106-10-17 06:26 G 46684891.64 46684891.77 46684891.90 0.1589 0.0786

Jupiter 123106-12-06 23:00 G 46684942.43 46684942.46 46684942.50 0.0541 0.0518

Moon 123108-11-07 15:33 G 46685644.05 46685644.15 46685644.25 0.2680 0.1424

Earth 123108-11-07 15:33 G 46685644.05 46685644.15 46685644.26 0.2687 0.1352 *

Mars 123109-08-03 02:21 G 46685912.52 46685912.60 46685912.67 0.1948 0.1505

Saturn 123112-06-17 23:14 G 46686962.34 46686962.47 46686962.61 0.0277 0.0127

Saturn 123112-09-14 13:24 G 46687050.91 46687051.06 46687051.21 0.0277 0.0027

Venus 123112-09-16 07:09 G 46687052.76 46687052.80 46687052.85 0.3737 0.3429

Jupiter 123112-10-19 05:43 G 46687085.59 46687085.74 46687085.88 0.0486 0.0194

Saturn 123112-12-12 03:19 G 46687139.53 46687139.64 46687139.75 0.0277 0.0178

Jupiter 123113-01-16 23:00 G 46687175.41 46687175.46 46687175.52 0.0487 0.0458

Mars 123116-03-08 11:57 G 46688321.85 46688322.00 46688322.15 0.1587 0.0243

Earth 123117-05-18 00:55 G 46688757.48 46688757.54 46688757.60 0.2651 0.2361

Moon 123117-05-18 01:53 G 46688757.53 46688757.58 46688757.63 0.2655 0.2444 *

Venus 123118-04-02 01:53 G 46689076.48 46689076.58 46689076.68 0.3733 0.1350

Jupiter 123118-06-27 08:36 G 46689162.80 46689162.86 46689162.93 0.0543 0.0472

Jupiter 123118-09-25 00:41 G 46689252.42 46689252.53 46689252.64 0.0542 0.0322

Mars 123118-12-24 08:21 G 46689342.73 46689342.85 46689342.97 0.1951 0.0020

Pluto 123119-06-25 05:00 G 46689525.65 46689525.71 46689525.80 0.0085 0.0070

Pluto 123119-09-21 06:26 G 46689613.67 46689613.77 46689613.88 0.0085 0.0052

Pluto 123119-12-18 07:53 G 46689701.71 46689701.83 46689701.95 0.0085 0.0035

Pluto 123120-03-15 09:05 G 46689789.76 46689789.88 46689790.01 0.0085 0.0018

Pluto 123120-06-11 10:31 G 46689877.80 46689877.94 46689878.07 0.0085 0.0002

Pluto 123120-09-07 11:43 G 46689965.86 46689965.99 46689966.12 0.0085 0.0015

Pluto 123120-12-04 12:55 G 46690053.92 46690054.04 46690054.16 0.0085 0.0032

Pluto 123121-03-02 14:07 G 46690141.99 46690142.09 46690142.20 0.0085 0.0049

Pluto 123121-05-29 15:05 G 46690230.06 46690230.13 46690230.23 0.0084 0.0066

Pluto 123121-08-25 16:31 G 46690318.16 46690318.19 46690318.23 0.0084 0.0081

Moon 123121-11-10 11:14 G 46690394.85 46690394.97 46690395.09 0.2683 0.0645

Earth 123121-11-10 12:12 G 46690394.89 46690395.01 46690395.13 0.2684 0.0717 *

Venus 123123-10-16 20:21 G 46691100.24 46691100.35 46691100.46 0.3729 0.0657

Jupiter 123124-08-07 06:55 G 46691395.68 46691395.79 46691395.90 0.0485 0.0354

Jupiter 123124-11-04 23:43 G 46691485.36 46691485.49 46691485.62 0.0486 0.0286

Mars 123125-07-29 17:29 G 46691752.14 46691752.23 46691752.32 0.1586 0.1251

Saturn 123127-01-01 22:17 G 46692273.35 46692273.43 46692273.52 0.0283 0.0234

Saturn 123127-03-31 15:19 G 46692361.98 46692362.14 46692362.30 0.0283 0.0061

Saturn 123127-06-28 08:36 G 46692450.71 46692450.86 46692451.01 0.0283 0.0117

Mars 123128-05-15 14:07 G 46692773.01 46692773.09 46692773.16 0.1952 0.1552

Venus 123129-05-01 14:21 G 46693124.02 46693124.10 46693124.18 0.3726 0.2569

Jupiter 123130-07-14 02:07 G 46693562.45 46693562.59 46693562.73 0.0543 0.0122

Uranus 123131-04-01 08:36 G 46693823.81 46693823.86 46693823.93 0.0137 0.0124

Uranus 123131-06-28 13:09 G 46693911.96 46693912.05 46693912.16 0.0137 0.0103

Uranus 123131-09-24 17:43 G 46694000.12 46694000.24 46694000.37 0.0137 0.0082

Uranus 123131-12-21 22:17 G 46694088.30 46694088.43 46694088.57 0.0137 0.0062

Uranus 123132-03-19 02:36 G 46694176.47 46694176.61 46694176.76 0.0137 0.0042

Uranus 123132-06-15 07:09 G 46694264.65 46694264.80 46694264.95 0.0137 0.0021

Uranus 123132-09-11 11:29 G 46694352.83 46694352.98 46694353.13 0.0138 0.0002

Uranus 123132-12-08 15:48 G 46694441.02 46694441.16 46694441.31 0.0138 0.0020

Uranus 123133-03-06 20:07 G 46694529.20 46694529.34 46694529.49 0.0138 0.0040

Uranus 123133-06-03 00:26 G 46694617.39 46694617.52 46694617.66 0.0138 0.0060

Uranus 123133-08-30 04:45 G 46694705.58 46694705.70 46694705.82 0.0138 0.0080

Uranus 123133-11-26 08:50 G 46694793.78 46694793.87 46694793.98 0.0138 0.0100

Uranus 123134-02-22 13:09 G 46694881.98 46694882.05 46694882.13 0.0138 0.0119

Moon 123134-11-13 08:21 G 46695145.82 46695145.85 46695145.88 0.2689 0.2606

Venus 123136-05-28 08:21 G 46695707.77 46695707.85 46695707.93 0.3641 0.2873

Jupiter 123136-08-24 00:55 G 46695795.39 46695795.54 46695795.70 0.0486 0.0125

Earth 123137-05-13 06:55 G 46696057.71 46696057.79 46696057.88 0.2646 0.2023

Moon 123137-05-13 07:38 G 46696057.73 46696057.82 46696057.90 0.2652 0.2029 *

Neptune 123140-06-29 16:02 G 46697201.14 46697201.17 46697201.24 0.0089 0.0085

Neptune 123140-09-25 18:26 G 46697289.21 46697289.27 46697289.37 0.0089 0.0077

Neptune 123140-12-22 21:05 G 46697377.29 46697377.38 46697377.50 0.0089 0.0069

Neptune 123141-03-20 23:29 G 46697465.37 46697465.48 46697465.61 0.0089 0.0061

Neptune 123141-06-17 02:07 G 46697553.46 46697553.59 46697553.73 0.0089 0.0053

Neptune 123141-09-13 04:31 G 46697641.56 46697641.69 46697641.84 0.0089 0.0045

Saturn 123141-11-05 01:24 G 46697694.44 46697694.56 46697694.68 0.0276 0.0164

Neptune 123141-12-10 07:09 G 46697729.65 46697729.80 46697729.96 0.0089 0.0037

Venus 123141-12-12 08:07 G 46697731.71 46697731.84 46697731.98 0.3645 0.0137

Saturn 123142-02-01 15:33 G 46697783.01 46697783.15 46697783.30 0.0276 0.0013

Neptune 123142-03-08 09:33 G 46697817.75 46697817.90 46697818.07 0.0089 0.0029

Saturn 123142-05-01 05:29 G 46697871.61 46697871.73 46697871.86 0.0276 0.0141

Jupiter 123142-05-02 04:17 G 46697872.53 46697872.68 46697872.82 0.0543 0.0069

Neptune 123142-06-04 12:12 G 46697905.85 46697906.01 46697906.18 0.0089 0.0021

Neptune 123142-08-31 14:36 G 46697993.95 46697994.11 46697994.28 0.0089 0.0013

Neptune 123142-11-27 17:14 G 46698082.06 46698082.22 46698082.39 0.0089 0.0005

Neptune 123143-02-23 19:53 G 46698170.16 46698170.33 46698170.50 0.0089 0.0004

Neptune 123143-05-22 22:17 G 46698258.27 46698258.43 46698258.60 0.0089 0.0012

Neptune 123143-08-19 00:55 G 46698346.38 46698346.54 46698346.71 0.0089 0.0020

Neptune 123143-11-15 03:19 G 46698434.49 46698434.64 46698434.81 0.0089 0.0029

Neptune 123144-02-11 05:57 G 46698522.61 46698522.75 46698522.91 0.0089 0.0037

Neptune 123144-05-09 08:50 G 46698610.72 46698610.87 46698611.02 0.0089 0.0045

Neptune 123144-08-05 11:00 G 46698698.84 46698698.96 46698699.11 0.0089 0.0054

Neptune 123144-11-01 13:53 G 46698786.97 46698787.08 46698787.21 0.0089 0.0062

Neptune 123145-01-28 16:45 G 46698875.10 46698875.20 46698875.30 0.0089 0.0070

Neptune 123145-04-26 19:09 G 46698963.24 46698963.30 46698963.39 0.0089 0.0079

Neptune 123145-07-23 22:02 G 46699051.40 46699051.42 46699051.45 0.0089 0.0087

Mars 123146-04-17 06:55 G 46699318.66 46699318.79 46699318.91 0.1589 0.0949

Venus 123147-06-28 08:36 G 46699755.79 46699755.86 46699755.94 0.3649 0.2951

Jupiter 123148-06-12 02:07 G 46700105.43 46700105.59 46700105.75 0.0485 0.0039

Mars 123149-02-01 02:36 G 46700339.55 46700339.61 46700339.66 0.1948 0.1682

Earth 123150-05-16 06:41 G 46700808.64 46700808.78 46700808.91 0.2649 0.0375

Moon 123150-05-16 07:38 G 46700808.69 46700808.82 46700808.96 0.2648 0.0631 *

Jupiter 123154-02-18 06:12 G 46702182.63 46702182.76 46702182.88 0.0544 0.0260

Jupiter 123154-05-18 21:33 G 46702272.37 46702272.40 46702272.44 0.0542 0.0523

Moon 123154-11-08 20:07 G 46702446.23 46702446.34 46702446.45 0.2691 0.1078

Earth 123154-11-08 20:50 G 46702446.25 46702446.37 46702446.48 0.2686 0.0918 *

Mars 123155-09-07 12:12 G 46702748.86 46702749.01 46702749.17 0.1587 0.0086

Saturn 123156-08-17 14:21 G 46703093.96 46703094.10 46703094.24 0.0283 0.0125

Saturn 123156-11-14 07:24 G 46703182.66 46703182.81 46703182.97 0.0283 0.0051

Saturn 123157-02-11 00:55 G 46703271.45 46703271.54 46703271.63 0.0282 0.0230

Mars 123158-06-24 08:36 G 46703769.74 46703769.86 46703769.98 0.1950 0.0183

Jupiter 123160-03-31 03:48 G 46704415.51 46704415.66 46704415.81 0.0485 0.0194

Jupiter 123160-06-28 21:05 G 46704505.33 46704505.38 46704505.44 0.0487 0.0457

Mars 123165-01-27 17:57 G 46706179.14 46706179.25 46706179.36 0.1586 0.1091

Jupiter 123165-12-07 07:09 G 46706492.73 46706492.80 46706492.88 0.0543 0.0467

Jupiter 123166-03-06 23:14 G 46706582.36 46706582.47 46706582.58 0.0542 0.0327

Earth 123167-11-11 17:29 G 46707197.12 46707197.23 46707197.34 0.2684 0.1134

Moon 123167-11-11 17:57 G 46707197.14 46707197.25 46707197.35 0.2690 0.1264 *

Mars 123167-11-14 14:07 G 46707200.01 46707200.09 46707200.18 0.1952 0.1382

Venus 123169-04-23 05:29 G 46707725.66 46707725.73 46707725.81 0.3736 0.2746

Saturn 123171-03-25 02:21 G 46708426.51 46708426.60 46708426.71 0.0277 0.0211

Saturn 123171-06-21 17:00 G 46708515.06 46708515.21 46708515.35 0.0277 0.0055

Saturn 123171-09-18 06:55 G 46708603.65 46708603.79 46708603.93 0.0277 0.0098

Uranus 123171-10-20 07:09 G 46708635.80 46708635.80 46708635.83 0.0141 0.0140

Saturn 123171-12-15 20:36 G 46708692.30 46708692.36 46708692.43 0.0277 0.0248

Uranus 123172-01-16 12:41 G 46708723.95 46708724.03 46708724.13 0.0141 0.0117

Jupiter 123172-01-18 05:14 G 46708725.61 46708725.72 46708725.83 0.0485 0.0351

Uranus 123172-04-13 18:12 G 46708812.15 46708812.26 46708812.39 0.0141 0.0094

Jupiter 123172-04-16 22:02 G 46708815.29 46708815.42 46708815.55 0.0487 0.0290

Uranus 123172-07-10 23:43 G 46708900.36 46708900.49 46708900.64 0.0141 0.0071

Uranus 123172-10-07 05:14 G 46708988.58 46708988.72 46708988.88 0.0141 0.0048

Uranus 123173-01-03 11:00 G 46709076.80 46709076.96 46709077.13 0.0141 0.0024

Uranus 123173-04-01 16:45 G 46709165.03 46709165.20 46709165.36 0.0141 0.0001

Uranus 123173-06-28 22:17 G 46709253.27 46709253.43 46709253.60 0.0140 0.0024

Uranus 123173-09-25 04:02 G 46709341.52 46709341.67 46709341.83 0.0140 0.0048

Uranus 123173-12-22 09:33 G 46709429.77 46709429.90 46709430.06 0.0140 0.0073

Uranus 123174-03-20 15:33 G 46709518.03 46709518.15 46709518.28 0.0140 0.0096

Uranus 123174-06-16 21:19 G 46709606.31 46709606.39 46709606.48 0.0140 0.0121

Venus 123174-11-07 00:12 G 46709749.40 46709749.51 46709749.62 0.3732 0.0692

Jupiter 123177-12-24 00:41 G 46710892.40 46710892.53 46710892.67 0.0542 0.0129

Venus 123180-05-22 18:26 G 46711773.17 46711773.27 46711773.38 0.3728 0.1286

Earth 123183-05-14 12:26 G 46712859.92 46712860.02 46712860.13 0.2647 0.1538

Moon 123183-05-14 13:09 G 46712859.94 46712860.05 46712860.17 0.2642 0.1465 *

Jupiter 123184-02-03 23:00 G 46713125.31 46713125.46 46713125.62 0.0486 0.0124

Mars 123185-10-16 07:24 G 46713745.70 46713745.81 46713745.92 0.1589 0.1123

Venus 123185-12-06 12:26 G 46713796.97 46713797.02 46713797.08 0.3725 0.3184

Saturn 123186-01-04 17:00 G 46713826.08 46713826.21 46713826.35 0.0283 0.0154

Saturn 123186-04-03 10:17 G 46713914.77 46713914.93 46713915.09 0.0283 0.0023

Saturn 123186-07-01 03:33 G 46714003.54 46714003.65 46714003.76 0.0283 0.0201

Earth 123187-11-07 05:14 G 46714497.69 46714497.72 46714497.75 0.2688 0.2589

Moon 123187-11-07 05:14 G 46714497.70 46714497.72 46714497.75 0.2696 0.2615 *

Mars 123188-08-02 02:36 G 46714766.57 46714766.61 46714766.64 0.1948 0.1845

Jupiter 123189-10-12 01:53 G 46715202.44 46715202.58 46715202.72 0.0543 0.0080

Venus 123193-01-02 07:53 G 46716380.72 46716380.83 46716380.94 0.3642 0.1988

Mars 123195-03-08 12:41 G 46717175.88 46717176.03 46717176.18 0.1587 0.0082

Jupiter 123195-11-23 00:26 G 46717435.36 46717435.52 46717435.69 0.0485 0.0038

Moon 123196-05-16 11:29 G 46717610.85 46717610.98 46717611.11 0.2644 0.0801

Earth 123196-05-16 12:12 G 46717610.89 46717611.01 46717611.14 0.2649 0.0885 *

Mars 123197-12-23 08:36 G 46718196.74 46718196.86 46718196.98 0.1950 0.0337

Venus 123198-07-19 08:07 G 46718404.71 46718404.84 46718404.97 0.3646 0.0897

Saturn 123200-08-11 05:00 G 46719158.64 46719158.71 46719158.78 0.0276 0.0244

Saturn 123200-11-07 19:09 G 46719247.16 46719247.30 46719247.45 0.0276 0.0090

Earth 123200-11-09 02:07 G 46719248.47 46719248.59 46719248.71 0.2686 0.0486

Moon 123200-11-09 02:50 G 46719248.50 46719248.62 46719248.74 0.2687 0.0330 *

Saturn 123201-02-04 09:19 G 46719335.75 46719335.89 46719336.04 0.0276 0.0063

Saturn 123201-05-03 23:14 G 46719424.38 46719424.47 46719424.56 0.0276 0.0212

Jupiter 123201-07-31 03:48 G 46719512.54 46719512.66 46719512.78 0.0544 0.0273

Jupiter 123201-10-28 19:24 G 46719602.27 46719602.31 46719602.35 0.0542 0.0512

Mars 123204-07-28 18:12 G 46720606.14 46720606.26 46720606.38 0.1586 0.0935

Mars 123207-05-15 14:21 G 46721627.01 46721627.10 46721627.20 0.1953 0.1195

Jupiter 123207-09-11 01:53 G 46721745.43 46721745.58 46721745.73 0.0485 0.0196

Jupiter 123207-12-09 18:55 G 46721835.24 46721835.29 46721835.36 0.0486 0.0454

Jupiter 123213-05-19 05:29 G 46723822.66 46723822.73 46723822.81 0.0544 0.0467

Jupiter 123213-08-16 21:48 G 46723912.30 46723912.41 46723912.52 0.0542 0.0331

Earth 123213-11-11 22:31 G 46723999.35 46723999.44 46723999.54 0.2684 0.1560

Moon 123213-11-11 23:00 G 46723999.37 46723999.46 46723999.56 0.2678 0.1605 *

Uranus 123215-01-23 11:57 G 46724437.00 46724437.00 46724437.02 0.0137 0.0136

Uranus 123215-04-21 16:17 G 46724525.12 46724525.18 46724525.28 0.0137 0.0116

Saturn 123215-05-24 16:17 G 46724558.08 46724558.18 46724558.28 0.0283 0.0216

Uranus 123215-07-18 21:05 G 46724613.28 46724613.38 46724613.49 0.0137 0.0095

Saturn 123215-08-21 09:05 G 46724646.73 46724646.88 46724647.04 0.0283 0.0044

Uranus 123215-10-15 01:38 G 46724701.44 46724701.57 46724701.70 0.0137 0.0074

Saturn 123215-11-18 02:21 G 46724735.46 46724735.60 46724735.74 0.0283 0.0134

Uranus 123216-01-11 05:57 G 46724789.62 46724789.75 46724789.90 0.0137 0.0054

Uranus 123216-04-08 10:31 G 46724877.79 46724877.94 46724878.09 0.0137 0.0033

Uranus 123216-07-05 14:50 G 46724965.97 46724966.12 46724966.27 0.0137 0.0014

Uranus 123216-10-01 19:24 G 46725054.16 46725054.31 46725054.46 0.0138 0.0008

Uranus 123216-12-28 23:43 G 46725142.34 46725142.49 46725142.63 0.0138 0.0028

Uranus 123217-03-27 03:48 G 46725230.53 46725230.66 46725230.81 0.0138 0.0048

Uranus 123217-06-23 08:07 G 46725318.72 46725318.84 46725318.97 0.0138 0.0068

Uranus 123217-09-19 12:12 G 46725406.91 46725407.01 46725407.14 0.0138 0.0088

Uranus 123217-12-16 16:45 G 46725495.11 46725495.20 46725495.29 0.0138 0.0107

Uranus 123218-03-14 20:36 G 46725583.32 46725583.36 46725583.43 0.0138 0.0127

Jupiter 123219-06-30 03:33 G 46726055.54 46726055.65 46726055.76 0.0485 0.0348

Jupiter 123219-09-27 20:21 G 46726145.22 46726145.35 46726145.48 0.0486 0.0292

Neptune 123221-04-29 20:21 G 46726725.32 46726725.35 46726725.40 0.0089 0.0085

Neptune 123221-07-26 22:17 G 46726813.37 46726813.43 46726813.51 0.0089 0.0078

Neptune 123221-10-22 23:57 G 46726901.43 46726901.50 46726901.61 0.0089 0.0071

Neptune 123222-01-19 02:07 G 46726989.49 46726989.59 46726989.70 0.0089 0.0063

Neptune 123222-04-17 04:02 G 46727077.56 46727077.67 46727077.79 0.0088 0.0055

Neptune 123222-07-14 05:43 G 46727165.63 46727165.74 46727165.88 0.0088 0.0049

Neptune 123222-10-10 07:53 G 46727253.70 46727253.83 46727253.96 0.0088 0.0041

Neptune 123223-01-06 09:33 G 46727341.77 46727341.90 46727342.05 0.0088 0.0034

Neptune 123223-04-04 11:29 G 46727429.84 46727429.98 46727430.13 0.0088 0.0027

Neptune 123223-07-01 13:24 G 46727517.92 46727518.06 46727518.21 0.0088 0.0019

Neptune 123223-09-27 15:19 G 46727605.99 46727606.14 46727606.29 0.0088 0.0012

Neptune 123223-12-24 17:14 G 46727694.07 46727694.22 46727694.37 0.0088 0.0005

Neptune 123224-03-21 18:55 G 46727782.15 46727782.29 46727782.44 0.0088 0.0004

Neptune 123224-06-17 20:50 G 46727870.22 46727870.37 46727870.52 0.0088 0.0010

Neptune 123224-09-13 22:31 G 46727958.30 46727958.44 46727958.59 0.0088 0.0017

Neptune 123224-12-11 00:26 G 46728046.38 46728046.52 46728046.66 0.0088 0.0024

Neptune 123225-03-09 02:07 G 46728134.46 46728134.59 46728134.74 0.0088 0.0031

Mars 123225-04-16 07:38 G 46728172.74 46728172.82 46728172.91 0.1589 0.1290

Jupiter 123225-06-04 23:29 G 46728222.34 46728222.48 46728222.62 0.0542 0.0135

Neptune 123225-06-05 03:48 G 46728222.54 46728222.66 46728222.81 0.0088 0.0039 *

Neptune 123225-09-01 05:43 G 46728310.62 46728310.74 46728310.87 0.0088 0.0045

Venus 123225-11-28 03:48 G 46728398.57 46728398.66 46728398.75 0.3735 0.2069

Neptune 123225-11-28 07:24 G 46728398.70 46728398.81 46728398.94 0.0088 0.0052 *

Neptune 123226-02-24 09:05 G 46728486.79 46728486.88 46728487.00 0.0088 0.0059

Neptune 123226-05-23 10:45 G 46728574.87 46728574.95 46728575.06 0.0088 0.0067

Neptune 123226-08-19 12:55 G 46728662.96 46728663.04 46728663.12 0.0088 0.0073

Neptune 123226-11-15 14:36 G 46728751.05 46728751.11 46728751.17 0.0088 0.0080

Neptune 123227-02-11 16:17 G 46728839.16 46728839.18 46728839.21 0.0088 0.0086

Moon 123229-05-14 17:00 G 46729662.09 46729662.21 46729662.33 0.2648 0.1221

Earth 123229-05-14 18:12 G 46729662.13 46729662.26 46729662.38 0.2647 0.1049 *

Saturn 123230-03-27 20:07 G 46729979.21 46729979.34 46729979.47 0.0276 0.0139

Saturn 123230-06-24 10:17 G 46730067.78 46730067.93 46730068.08 0.0276 0.0015

Saturn 123230-09-21 00:12 G 46730156.40 46730156.51 46730156.63 0.0277 0.0166

Venus 123231-06-13 22:17 G 46730422.32 46730422.43 46730422.55 0.3731 0.0108

Jupiter 123231-07-16 21:33 G 46730455.24 46730455.40 46730455.56 0.0486 0.0128

Earth 123233-11-07 10:31 G 46731299.87 46731299.94 46731300.01 0.2688 0.2148

Moon 123233-11-07 11:14 G 46731299.90 46731299.97 46731300.05 0.2685 0.2088 *

Mars 123234-09-06 13:09 G 46731602.90 46731603.05 46731603.20 0.1588 0.0249

Venus 123236-12-27 16:31 G 46732446.10 46732446.19 46732446.29 0.3727 0.1916

Jupiter 123237-03-24 00:55 G 46732532.40 46732532.54 46732532.68 0.0543 0.0067

Mars 123237-06-23 08:36 G 46732623.75 46732623.86 46732623.98 0.1950 0.0516

Moon 123242-05-17 17:43 G 46734413.12 46734413.24 46734413.36 0.2655 0.1339

Earth 123242-05-17 17:57 G 46734413.13 46734413.25 46734413.36 0.2649 0.1383 *

Jupiter 123243-05-04 22:45 G 46734765.29 46734765.45 46734765.61 0.0485 0.0034

Mars 123244-01-27 18:41 G 46735033.15 46735033.28 46735033.42 0.1586 0.0766

Saturn 123244-10-10 18:26 G 46735290.20 46735290.27 46735290.35 0.0283 0.0249

Saturn 123245-01-07 11:29 G 46735378.82 46735378.98 46735379.13 0.0283 0.0077

Saturn 123245-04-06 04:31 G 46735467.54 46735467.69 46735467.84 0.0283 0.0100

Saturn 123245-07-03 22:02 G 46735556.41 46735556.42 46735556.44 0.0283 0.0281

Moon 123246-11-10 06:55 G 46736050.67 46736050.79 46736050.92 0.2679 0.0054

Earth 123246-11-10 07:09 G 46736050.68 46736050.80 46736050.93 0.2686 0.0116 *

Mars 123246-11-13 14:21 G 46736054.00 46736054.10 46736054.21 0.1952 0.1033

Jupiter 123249-01-10 01:38 G 46736842.45 46736842.57 46736842.69 0.0544 0.0282

Jupiter 123249-04-09 17:14 G 46736932.18 46736932.22 46736932.27 0.0542 0.0504

Venus 123249-08-09 07:38 G 46737053.69 46737053.82 46737053.95 0.3643 0.1083

Jupiter 123255-02-21 00:26 G 46739075.37 46739075.52 46739075.67 0.0485 0.0189

Venus 123255-02-23 07:53 G 46739077.71 46739077.83 46739077.94 0.3647 0.1831

Jupiter 123255-05-21 17:43 G 46739165.19 46739165.24 46739165.29 0.0486 0.0459

Uranus 123255-11-09 14:21 G 46739337.07 46739337.10 46739337.16 0.0141 0.0134

Uranus 123256-02-05 19:53 G 46739425.25 46739425.33 46739425.44 0.0141 0.0111

Uranus 123256-05-04 01:24 G 46739513.45 46739513.56 46739513.70 0.0141 0.0088

Uranus 123256-07-31 06:55 G 46739601.66 46739601.79 46739601.95 0.0141 0.0065

Uranus 123256-10-27 12:41 G 46739689.88 46739690.03 46739690.19 0.0141 0.0041

Uranus 123257-01-23 18:12 G 46739778.10 46739778.26 46739778.43 0.0141 0.0018

Uranus 123257-04-21 23:57 G 46739866.34 46739866.50 46739866.67 0.0141 0.0007

Uranus 123257-07-19 05:43 G 46739954.58 46739954.74 46739954.90 0.0141 0.0030

Uranus 123257-10-15 11:14 G 46740042.82 46740042.97 46740043.13 0.0140 0.0055

Uranus 123258-01-11 17:00 G 46740131.08 46740131.21 46740131.35 0.0140 0.0079

Uranus 123258-04-09 22:45 G 46740219.34 46740219.45 46740219.57 0.0140 0.0103

Uranus 123258-07-07 04:31 G 46740307.63 46740307.69 46740307.77 0.0140 0.0127

Saturn 123259-08-14 22:31 G 46740711.33 46740711.44 46740711.56 0.0276 0.0172

Saturn 123259-11-11 12:55 G 46740799.89 46740800.04 46740800.19 0.0276 0.0019

Moon 123259-11-13 02:50 G 46740801.54 46740801.62 46740801.71 0.2685 0.1777

Earth 123259-11-13 03:48 G 46740801.58 46740801.66 46740801.74 0.2683 0.1982 *

Saturn 123260-02-08 02:50 G 46740888.49 46740888.62 46740888.75 0.0276 0.0132

Jupiter 123260-10-29 03:19 G 46741152.57 46741152.64 46741152.71 0.0544 0.0480

Jupiter 123261-01-26 19:38 G 46741242.21 46741242.32 46741242.43 0.0543 0.0320

Mars 123264-10-15 08:07 G 46742599.78 46742599.84 46742599.90 0.1589 0.1450

Jupiter 123266-12-10 01:53 G 46743385.47 46743385.58 46743385.69 0.0485 0.0347

Jupiter 123267-03-09 18:26 G 46743475.15 46743475.27 46743475.40 0.0486 0.0292

Pluto 123269-08-22 02:21 G 46744371.57 46744371.60 46744371.69 0.0058 0.0056

Pluto 123269-11-18 03:48 G 46744459.57 46744459.66 46744459.80 0.0058 0.0048

Pluto 123270-02-14 05:14 G 46744547.60 46744547.72 46744547.89 0.0058 0.0040

Pluto 123270-05-13 06:41 G 46744635.63 46744635.78 46744635.96 0.0058 0.0032

Pluto 123270-08-09 07:53 G 46744723.67 46744723.83 46744724.03 0.0059 0.0024

Pluto 123270-11-05 09:19 G 46744811.71 46744811.89 46744812.09 0.0059 0.0016

Pluto 123271-02-01 10:45 G 46744899.76 46744899.95 46744900.15 0.0059 0.0008

Pluto 123271-04-30 12:12 G 46744987.82 46744988.01 46744988.21 0.0059 0.0001

Pluto 123271-07-27 13:38 G 46745075.87 46745076.07 46745076.26 0.0059 0.0009

Pluto 123271-10-23 14:50 G 46745163.94 46745164.12 46745164.31 0.0059 0.0017

Pluto 123272-01-19 15:48 G 46745252.00 46745252.16 46745252.36 0.0059 0.0026

Pluto 123272-04-16 17:00 G 46745340.07 46745340.21 46745340.40 0.0059 0.0034

Pluto 123272-07-13 18:26 G 46745428.15 46745428.27 46745428.43 0.0059 0.0042

Pluto 123272-10-09 19:53 G 46745516.24 46745516.33 46745516.45 0.0059 0.0050

Jupiter 123272-11-14 21:48 G 46745552.28 46745552.41 46745552.55 0.0543 0.0137

Pluto 123273-01-05 21:33 G 46745604.38 46745604.40 46745604.42 0.0059 0.0059

Mars 123274-03-07 13:38 G 46746029.92 46746030.07 46746030.21 0.1588 0.0416

Saturn 123274-05-27 10:31 G 46746110.80 46746110.94 46746111.08 0.0283 0.0141

Saturn 123274-08-24 03:33 G 46746199.49 46746199.65 46746199.81 0.0283 0.0034

Saturn 123274-11-20 20:50 G 46746288.27 46746288.37 46746288.48 0.0283 0.0213

Earth 123275-05-15 23:43 G 46746464.36 46746464.49 46746464.62 0.2647 0.0564

Moon 123275-05-16 00:26 G 46746464.38 46746464.52 46746464.65 0.2652 0.0402 *

Venus 123276-12-19 07:24 G 46747047.77 46747047.81 46747047.85 0.3737 0.3491

Mars 123276-12-22 08:50 G 46747050.76 46747050.87 46747050.99 0.1950 0.0702

Jupiter 123278-12-26 19:53 G 46747785.18 46747785.33 46747785.49 0.0486 0.0133

Moon 123279-11-08 14:50 G 46748102.04 46748102.12 46748102.20 0.2685 0.1932

Earth 123279-11-08 15:48 G 46748102.06 46748102.16 46748102.25 0.2688 0.1707 *

Venus 123282-07-05 02:07 G 46749071.49 46749071.59 46749071.69 0.3734 0.1398

Mars 123283-07-28 19:09 G 46749460.16 46749460.30 46749460.44 0.1586 0.0605

Jupiter 123284-09-02 23:43 G 46749862.34 46749862.49 46749862.63 0.0543 0.0062

Mars 123286-05-14 14:36 G 46750481.00 46750481.11 46750481.22 0.1952 0.0861

Venus 123288-01-18 20:36 G 46751095.25 46751095.36 46751095.47 0.3730 0.0613

Earth 123288-05-17 23:29 G 46751215.39 46751215.48 46751215.58 0.2650 0.1883

Moon 123288-05-18 00:41 G 46751215.44 46751215.53 46751215.62 0.2647 0.1979 *

Saturn 123288-12-31 22:45 G 46751443.37 46751443.45 46751443.54 0.0276 0.0227

Saturn 123289-03-30 13:09 G 46751531.91 46751532.05 46751532.20 0.0276 0.0073

Saturn 123289-06-27 03:19 G 46751620.50 46751620.64 46751620.79 0.0276 0.0081

Saturn 123289-09-23 17:00 G 46751709.14 46751709.21 46751709.30 0.0276 0.0231

Jupiter 123290-10-14 21:19 G 46752095.23 46752095.39 46752095.55 0.0486 0.0028

Moon 123292-11-10 11:57 G 46752852.89 46752853.00 46752853.12 0.2691 0.0392

Earth 123292-11-10 12:26 G 46752852.90 46752853.02 46752853.14 0.2685 0.0388 *

Venus 123293-08-03 14:36 G 46753119.03 46753119.11 46753119.19 0.3727 0.2539

Jupiter 123296-06-22 00:55 G 46754172.42 46754172.54 46754172.66 0.0543 0.0264

Jupiter 123296-09-19 16:31 G 46754262.15 46754262.19 46754262.23 0.0541 0.0519

Uranus 123299-02-12 19:38 G 46755138.28 46755138.32 46755138.38 0.0137 0.0129

Uranus 123299-05-12 00:12 G 46755226.43 46755226.51 46755226.61 0.0137 0.0108

Uranus 123299-08-08 04:45 G 46755314.59 46755314.70 46755314.82 0.0137 0.0087

Uranus 123299-11-04 09:19 G 46755402.76 46755402.89 46755403.03 0.0137 0.0067

Uranus 123300-01-31 13:38 G 46755490.94 46755491.07 46755491.22 0.0137 0.0047

Uranus 123300-04-29 18:12 G 46755579.11 46755579.26 46755579.41 0.0137 0.0026

Uranus 123300-07-26 22:45 G 46755667.30 46755667.45 46755667.60 0.0137 0.0006

Venus 123300-08-31 07:38 G 46755702.74 46755702.82 46755702.89 0.3640 0.2973

Uranus 123300-10-23 03:05 G 46755755.48 46755755.63 46755755.78 0.0138 0.0015

Uranus 123301-01-19 07:24 G 46755843.66 46755843.81 46755843.95 0.0138 0.0035

Uranus 123301-04-17 11:43 G 46755931.85 46755931.99 46755932.12 0.0138 0.0055

Uranus 123301-07-14 15:48 G 46756020.04 46756020.16 46756020.29 0.0138 0.0075

Uranus 123301-10-10 20:07 G 46756108.24 46756108.34 46756108.45 0.0138 0.0095

Uranus 123302-01-07 00:26 G 46756196.44 46756196.52 46756196.60 0.0138 0.0114

Uranus 123302-04-05 04:31 G 46756284.66 46756284.69 46756284.73 0.0138 0.0134

Jupiter 123302-08-03 22:45 G 46756405.30 46756405.45 46756405.60 0.0485 0.0185

Jupiter 123302-11-01 16:02 G 46756495.12 46756495.17 46756495.22 0.0486 0.0464

Saturn 123303-10-15 12:12 G 46756842.89 46756843.01 46756843.13 0.0283 0.0180

Saturn 123304-01-12 05:14 G 46756931.56 46756931.72 46756931.88 0.0283 0.0007

Saturn 123304-04-09 22:31 G 46757020.31 46757020.44 46757020.57 0.0283 0.0173

Neptune 123305-03-27 15:05 G 46757372.07 46757372.13 46757372.20 0.0089 0.0081

Neptune 123305-06-23 17:29 G 46757460.14 46757460.23 46757460.32 0.0089 0.0073

Neptune 123305-09-19 19:38 G 46757548.22 46757548.32 46757548.45 0.0089 0.0066

Earth 123305-11-14 09:05 G 46757603.82 46757603.88 46757603.93 0.2683 0.2397

Moon 123305-11-14 09:33 G 46757603.85 46757603.90 46757603.95 0.2688 0.2422 *

Neptune 123305-12-16 22:02 G 46757636.31 46757636.42 46757636.56 0.0089 0.0058

Neptune 123306-03-15 00:41 G 46757724.40 46757724.53 46757724.68 0.0089 0.0050

Venus 123306-03-17 07:24 G 46757726.67 46757726.81 46757726.94 0.3644 0.0202

Neptune 123306-06-11 03:05 G 46757812.50 46757812.63 46757812.79 0.0089 0.0042

Neptune 123306-09-07 05:43 G 46757900.59 46757900.74 46757900.90 0.0089 0.0034

Neptune 123306-12-04 08:07 G 46757988.69 46757988.84 46757989.01 0.0089 0.0026

Neptune 123307-03-02 10:45 G 46758076.79 46758076.95 46758077.12 0.0089 0.0018

Neptune 123307-05-29 13:24 G 46758164.89 46758165.06 46758165.23 0.0089 0.0009

Neptune 123307-08-25 15:48 G 46758253.00 46758253.16 46758253.33 0.0089 0.0003

Neptune 123307-11-21 18:26 G 46758341.10 46758341.27 46758341.44 0.0089 0.0007

Neptune 123308-02-17 21:05 G 46758429.21 46758429.38 46758429.54 0.0089 0.0015

Jupiter 123308-04-11 01:24 G 46758482.50 46758482.56 46758482.62 0.0544 0.0485

Earth 123308-05-14 05:43 G 46758515.70 46758515.74 46758515.79 0.2645 0.2433

Moon 123308-05-14 06:55 G 46758515.73 46758515.79 46758515.85 0.2647 0.2344 *

Neptune 123308-05-15 23:29 G 46758517.32 46758517.48 46758517.65 0.0089 0.0024

Jupiter 123308-07-09 17:43 G 46758572.13 46758572.24 46758572.35 0.0542 0.0315

Neptune 123308-08-12 02:07 G 46758605.44 46758605.59 46758605.75 0.0089 0.0032

Neptune 123308-11-08 04:45 G 46758693.55 46758693.70 46758693.85 0.0089 0.0040

Neptune 123309-02-04 07:09 G 46758781.67 46758781.80 46758781.95 0.0089 0.0049

Neptune 123309-05-03 09:48 G 46758869.79 46758869.91 46758870.05 0.0089 0.0057

Neptune 123309-07-30 12:41 G 46758957.92   46758958.03   46758958.14 0.0089 0.0065

Neptune 123309-10-26 14:50 G 46759046.05   46759046.12   46759046.23 0.0089 0.0074

Neptune 123310-01-22 17:43 G 46759134.19   46759134.24   46759134.31 0.0089 0.0082

Venus   123311-10-01 07:38 G 46759750.74   46759750.82   46759750.91 0.3648 0.2795

Mars   123313-09-06 13:53 G 46760456.94   46760457.08   46760457.22 0.1588 0.0576

Jupiter 123314-05-23 00:41 G 46760715.42   46760715.53   46760715.64 0.0485 0.0337

Jupiter 123314-08-20 17:14 G 46760805.10   46760805.22   46760805.35 0.0486 0.0302

Mars   123316-06-23 08:50 G 46761477.76   46761477.87   46761477.98 0.1950 0.0844

Saturn   123318-05-22 01:24 G 46762175.52   46762175.56   46762175.61 0.0276 0.0259

Saturn   123318-08-18 15:48 G 46762264.03   46762264.16   46762264.30 0.0276 0.0104

Saturn   123318-11-15 05:57 G 46762352.61   46762352.75   46762352.90 0.0276 0.0049

Saturn   123319-02-11 19:53 G 46762441.23   46762441.33   46762441.43 0.0276 0.0198

Jupiter 123320-04-27 19:38 G 46762882.19   46762882.32   46762882.46 0.0543 0.0128

Earth   123321-05-17 05:14 G 46763266.59   46763266.72   46763266.86 0.2648 0.0100

Moon   123321-05-17 05:43 G 46763266.60   46763266.74   46763266.87 0.2641 0.0089 *

Mars   123323-01-27 19:24 G 46763887.17   46763887.31   46763887.46 0.1586 0.0449

Earth   123325-11-09 21:05 G 46764904.27   46764904.38   46764904.48 0.2687 0.1266

Moon   123325-11-09 21:19 G 46764904.28   46764904.39   46764904.49 0.2694 0.1259 *

Mars   123325-11-13 14:50 G 46764908.00   46764908.12   46764908.23 0.1952 0.0680

Jupiter 123326-06-08 18:26 G 46765115.11   46765115.27   46765115.42 0.0486 0.0137

Jupiter 123332-02-14 22:02 G 46767192.28   46767192.42   46767192.56 0.0544 0.0060

Mars   123332-06-19 01:09 G 46767317.50   46767317.55   46767317.62 0.1585 0.1444

Saturn   123333-03-03 11:29 G 46767574.90   46767574.98   46767575.06 0.0283 0.0242

Saturn   123333-05-31 04:17 G 46767663.53   46767663.68   46767663.84 0.0283 0.0069

Venus   123333-07-27 05:43 G 46767720.67   46767720.74   46767720.81 0.3736 0.2810

Saturn   123333-08-27 21:19 G 46767752.25   46767752.39   46767752.54 0.0283 0.0108

Moon   123334-05-20 04:17 G 46768017.60   46768017.68   46768017.75 0.2647 0.2144

Earth   123334-05-20 05:14 G 46768017.66   46768017.72   46768017.77 0.2650 0.2390 *

Jupiter 123338-03-27 19:53 G 46769425.17   46769425.33   46769425.49 0.0485 0.0022

Earth   123338-11-12 17:43 G 46769655.12   46769655.24   46769655.36 0.2685 0.0801

Moon 123338-11-12 18:41 G 46769655.16 46769655.28 46769655.39 0.2686 0.0975 *

Venus 123339-02-10 00:26 G 46769744.41 46769744.52 46769744.63 0.3733 0.0744

Uranus 123339-11-30 22:17 G 46770038.36 46770038.43 46770038.50 0.0141 0.0126

Uranus 123340-02-27 03:48 G 46770126.55 46770126.66 46770126.77 0.0141 0.0103

Uranus 123340-05-25 09:05 G 46770214.76 46770214.88 46770215.02 0.0141 0.0080

Uranus 123340-08-21 14:36 G 46770302.97 46770303.11 46770303.27 0.0141 0.0057

Uranus 123340-11-17 20:21 G 46770391.19 46770391.35 46770391.51 0.0141 0.0033

Uranus 123341-02-14 01:53 G 46770479.42 46770479.58 46770479.75 0.0141 0.0010

Uranus 123341-05-13 07:38 G 46770567.65 46770567.82 46770567.98 0.0141 0.0014

Uranus 123341-08-09 13:09 G 46770655.89 46770656.05 46770656.21 0.0141 0.0038

Uranus 123341-11-05 18:41 G 46770744.14 46770744.28 46770744.44 0.0140 0.0063

Uranus 123342-02-02 00:26 G 46770832.40 46770832.52 46770832.66 0.0140 0.0087

Uranus 123342-05-01 06:26 G 46770920.67 46770920.77 46770920.87 0.0140 0.0110

Uranus 123342-07-28 12:12 G 46771008.97 46771009.01 46771009.06 0.0140 0.0135

Jupiter 123343-12-03 23:43 G 46771502.36 46771502.49 46771502.62 0.0543 0.0255

Jupiter 123344-03-02 15:19 G 46771592.12 46771592.14 46771592.17 0.0542 0.0528

Venus 123344-08-25 18:41 G 46771768.17 46771768.28 46771768.38 0.3729 0.1236

Saturn 123348-01-05 15:48 G 46772996.04 46772996.16 46772996.29 0.0276 0.0162

Saturn 123348-04-03 06:12 G 46773084.61 46773084.76 46773084.91 0.0276 0.0008

Saturn 123348-06-30 20:07 G 46773173.22 46773173.34 46773173.47 0.0276 0.0143

Jupiter 123350-01-13 21:19 G 46773735.25 46773735.39 46773735.54 0.0485 0.0179

Venus 123350-03-11 12:41 G 46773791.98 46773792.03 46773792.09 0.3726 0.3155

Jupiter 123350-04-13 14:36 G 46773825.08 46773825.11 46773825.15 0.0487 0.0471

Mars 123353-03-07 14:21 G 46774883.97 46774884.10 46774884.24 0.1588 0.0748

Moon 123354-05-15 10:45 G 46775317.87 46775317.95 46775318.03 0.2640 0.2090

Earth 123354-05-15 11:29 G 46775317.89 46775317.98 46775318.07 0.2646 0.1942 *

Jupiter 123355-09-22 00:55 G 46775812.47 46775812.54 46775812.61 0.0544 0.0461

Jupiter 123355-12-20 17:14 G 46775902.11 46775902.22 46775902.33 0.0542 0.0336

Mars 123355-12-23 09:05 G 46775904.78 46775904.88 46775904.98 0.1950 0.1028

Venus 123357-04-07 07:09 G 46776375.69 46776375.80 46776375.91 0.3641 0.2102

Jupiter	123361-11-01 23:14 G	46778045.35	46778045.47	46778045.58	0.0485	0.0331
Jupiter	123362-01-30 15:48 G	46778135.04	46778135.16	46778135.29	0.0486	0.0308
Mars	123362-07-28 19:53 G	46778314.18	46778314.33	46778314.48	0.1586	0.0282
Saturn	123362-10-18 05:14 G	46778395.58	46778395.72	46778395.87	0.0283	0.0115
Venus	123362-10-22 07:09 G	46778399.67	46778399.80	46778399.93	0.3645	0.0758
Saturn	123363-01-14 22:31 G	46778484.28	46778484.44	46778484.59	0.0283	0.0062
Saturn	123363-04-13 15:48 G	46778573.08	46778573.16	46778573.25	0.0283	0.0241
Mars	123365-05-14 14:50 G	46779335.00	46779335.12	46779335.24	0.1952	0.0518
Moon	123367-05-18 10:02 G	46780068.78	46780068.92	46780069.05	0.2650	0.0318
Earth	123367-05-18 11:00 G	46780068.83	46780068.96	46780069.09	0.2648	0.0436 *
Jupiter	123367-10-08 17:57 G	46780212.12	46780212.25	46780212.39	0.0543	0.0127
Pluto	123367-10-18 11:57 G	46780221.95	46780222.00	46780222.07	0.0085	0.0076
Pluto	123368-01-14 13:24 G	46780309.97	46780310.06	46780310.16	0.0085	0.0058
Pluto	123368-04-11 14:36 G	46780398.01	46780398.11	46780398.24	0.0085	0.0042
Pluto	123368-07-08 16:02 G	46780486.05	46780486.17	46780486.30	0.0085	0.0024
Pluto	123368-10-04 17:14 G	46780574.09	46780574.22	46780574.36	0.0085	0.0008
Pluto	123368-12-31 18:41 G	46780662.15	46780662.28	46780662.41	0.0085	0.0010
Pluto	123369-03-29 19:53 G	46780750.21	46780750.33	46780750.46	0.0085	0.0026
Pluto	123369-06-25 21:05 G	46780838.27	46780838.38	46780838.50	0.0085	0.0043
Pluto	123369-09-21 22:02 G	46780926.34	46780926.42	46780926.53	0.0085	0.0060
Pluto	123369-12-18 23:29 G	46781014.43	46781014.48	46781014.54	0.0084	0.0075
Earth	123371-11-11 02:21 G	46781706.48	46781706.60	46781706.71	0.2687	0.0826
Moon	123371-11-11 03:05 G	46781706.51	46781706.63	46781706.74	0.2682	0.0679 *
Mars	123371-12-19 01:38 G	46781744.48	46781744.57	46781744.66	0.1585	0.1287
Jupiter	123373-08-21 01:09 G	46782355.53	46782355.55	46782355.57	0.0484	0.0480
Jupiter	123373-11-18 17:14 G	46782445.07	46782445.22	46782445.38	0.0485	0.0149
Saturn	123377-05-24 18:41 G	46783728.17	46783728.28	46783728.38	0.0275	0.0193
Saturn	123377-08-21 08:50 G	46783816.73	46783816.87	46783817.02	0.0275	0.0040
Saturn	123377-11-17 23:00 G	46783905.32	46783905.46	46783905.59	0.0275	0.0112
Saturn	123378-02-14 12:41 G	46783993.99	46783994.03	46783994.08	0.0275	0.0260

Jupiter 123379-07-27 19:53 G 46784522.19 46784522.33 46784522.47 0.0544 0.0067

Uranus 123383-03-06 03:19 G 46785839.58 46785839.64 46785839.72 0.0137 0.0121

Uranus 123383-06-02 07:53 G 46785927.74 46785927.83 46785927.94 0.0137 0.0100

Uranus 123383-08-29 12:41 G 46786015.90 46786016.03 46786016.15 0.0137 0.0080

Uranus 123383-11-25 17:00 G 46786104.08 46786104.21 46786104.35 0.0137 0.0059

Uranus 123384-02-21 21:33 G 46786192.25 46786192.40 46786192.55 0.0137 0.0038

Uranus 123384-05-20 01:53 G 46786280.43 46786280.58 46786280.73 0.0137 0.0018

Uranus 123384-08-16 06:26 G 46786368.62 46786368.77 46786368.92 0.0137 0.0004

Uranus 123384-11-12 10:45 G 46786456.80 46786456.95 46786457.10 0.0138 0.0022

Moon 123384-11-12 22:17 G 46786457.32 46786457.43 46786457.54 0.2680 0.1121

Earth 123384-11-12 23:00 G 46786457.35 46786457.46 46786457.57 0.2685 0.1239 *

Uranus 123385-02-08 15:05 G 46786544.99 46786545.13 46786545.27 0.0138 0.0042

Uranus 123385-05-07 19:09 G 46786633.18 46786633.30 46786633.44 0.0138 0.0063

Uranus 123385-08-03 23:29 G 46786721.37 46786721.48 46786721.61 0.0138 0.0082

Jupiter 123385-09-06 18:26 G 46786755.11 46786755.27 46786755.43 0.0485 0.0015

Uranus 123385-10-31 03:48 G 46786809.57 46786809.66 46786809.76 0.0138 0.0102

Neptune 123386-01-25 19:09 G 46786896.26 46786896.30 46786896.36 0.0089 0.0083

Uranus 123386-01-27 07:53 G 46786897.77 46786897.83 46786897.91 0.0138 0.0122

Neptune 123386-04-23 21:19 G 46786984.31 46786984.39 46786984.47 0.0089 0.0075

Neptune 123386-07-20 23:00 G 46787072.37 46787072.46 46787072.56 0.0089 0.0068

Neptune 123386-10-17 00:55 G 46787160.44 46787160.54 46787160.66 0.0089 0.0060

Neptune 123387-01-13 03:05 G 46787248.51 46787248.63 46787248.75 0.0089 0.0053

Neptune 123387-04-11 04:45 G 46787336.58 46787336.70 46787336.83 0.0088 0.0046

Neptune 123387-07-08 06:41 G 46787424.65 46787424.78 46787424.92 0.0088 0.0038

Neptune 123387-10-04 08:21 G 46787512.72 46787512.85 46787513.00 0.0088 0.0032

Neptune 123387-12-31 10:31 G 46787600.80 46787600.94 46787601.09 0.0088 0.0024

Neptune 123388-03-28 12:26 G 46787688.87 46787689.02 46787689.17 0.0088 0.0017

Neptune 123388-06-24 14:07 G 46787776.95 46787777.09 46787777.24 0.0088 0.0010

Neptune 123388-09-20 16:02 G 46787865.02 46787865.17 46787865.32 0.0088 0.0003

Neptune 123388-12-17 17:57 G 46787953.10 46787953.25 46787953.40 0.0088 0.0005

Neptune 123389-03-15 19:38 G 46788041.18   46788041.32   46788041.47 0.0088 0.0013

Neptune 123389-06-11 21:33 G 46788129.26   46788129.40   46788129.55 0.0088 0.0019

Neptune 123389-09-07 23:14 G 46788217.34   46788217.47   46788217.62 0.0088 0.0027

Neptune 123389-12-05 01:09 G 46788305.42   46788305.55   46788305.69 0.0088 0.0033

Neptune 123390-03-03 02:50 G 46788393.50   46788393.62   46788393.76 0.0088 0.0041

Venus   123390-03-03 04:02 G 46788393.58   46788393.67   46788393.76 0.3736 0.2130 *

Neptune 123390-05-30 04:45 G 46788481.58   46788481.70   46788481.83 0.0088 0.0047

Neptune 123390-08-26 06:26 G 46788569.66   46788569.77   46788569.89 0.0088 0.0055

Neptune 123390-11-22 08:07 G 46788657.74   46788657.84   46788657.95 0.0088 0.0062

Neptune 123391-02-18 09:48 G 46788745.83   46788745.91   46788746.01 0.0088 0.0069

Jupiter 123391-05-15 22:02 G 46788832.29   46788832.42   46788832.54 0.0544 0.0256

Neptune 123391-05-17 11:29 G 46788833.92   46788833.98   46788834.07 0.0088 0.0076

Neptune 123391-08-13 13:09 G 46788922.02   46788922.05   46788922.12 0.0088 0.0083

Jupiter 123391-08-13 13:38 G 46788922.05   46788922.07   46788922.10 0.0542 0.0531 *

Saturn   123392-03-06 04:31 G 46789127.57   46789127.69   46789127.82 0.0283 0.0177

Saturn   123392-06-02 21:33 G 46789216.24   46789216.40   46789216.56 0.0283 0.0004

Saturn   123392-08-30 14:50 G 46789304.99   46789305.12   46789305.24 0.0283 0.0175

Mars   123392-09-05 14:50 G 46789310.99   46789311.12   46789311.24 0.1588 0.0909

Mars   123395-06-23 09:19 G 46790331.79   46790331.89   46790331.98 0.1950 0.1199

Venus   123395-09-16 22:31 G 46790417.33   46790417.44   46790417.55 0.3732 0.0093

Jupiter 123397-06-25 20:07 G 46791065.19   46791065.34   46791065.49 0.0485 0.0169

Jupiter 123397-09-23 13:09 G 46791155.04   46791155.05   46791155.08 0.0486 0.0481

Moon   123400-05-16 16:31 G 46792120.08   46792120.19   46792120.30 0.2651 0.1517

Earth   123400-05-16 17:00 G 46792120.10   46792120.21   46792120.32 0.2646 0.1465 *

Venus   123401-04-02 16:45 G 46792441.11   46792441.20   46792441.30 0.3728 0.1872

Mars   123402-01-27 20:21 G 46792741.20   46792741.35   46792741.50 0.1587 0.0118

Jupiter 123403-03-04 23:43 G 46793142.41   46793142.49   46793142.57 0.0544 0.0452

Jupiter 123403-06-02 16:02 G 46793232.06   46793232.17   46793232.27 0.0542 0.0346

Earth   123404-11-09 10:31 G 46793757.90   46793757.94   46793757.99 0.2689 0.2508

Moon   123404-11-09 10:31 G 46793757.91   46793757.94   46793757.97 0.2682 0.2593 *

Mars 123404-11-13 14:50 G 46793762.00 46793762.12 46793762.24 0.1952 0.0349

Saturn 123406-10-12 18:12 G 46794460.21 46794460.26 46794460.32 0.0276 0.0254

Saturn 123407-01-09 08:50 G 46794548.73 46794548.87 46794549.01 0.0276 0.0098

Saturn 123407-04-07 23:00 G 46794637.31 46794637.46 46794637.60 0.0276 0.0054

Saturn 123407-07-05 12:41 G 46794725.94 46794726.03 46794726.13 0.0276 0.0204

Jupiter 123409-04-14 21:48 G 46795375.29 46795375.41 46795375.53 0.0485 0.0324

Jupiter 123409-07-13 14:21 G 46795464.98 46795465.10 46795465.23 0.0486 0.0317

Mars 123411-06-20 02:07 G 46796171.48 46796171.59 46796171.70 0.1585 0.1120

Earth 123413-05-19 16:31 G 46796871.07 46796871.19 46796871.32 0.2648 0.0930

Moon 123413-05-19 17:29 G 46796871.11 46796871.23 46796871.36 0.2653 0.1046 *

Venus 123413-11-13 06:55 G 46797048.66 46797048.79 46797048.91 0.3642 0.1203

Mars 123414-04-05 20:36 G 46797192.34 46797192.36 46797192.38 0.1953 0.1904

Jupiter 123415-03-21 17:43 G 46797542.10 46797542.24 46797542.37 0.0543 0.0151

Moon 123417-11-12 06:41 G 46798508.66 46798508.78 46798508.90 0.2687 0.0470

Earth 123417-11-12 07:38 G 46798508.69 46798508.82 46798508.94 0.2687 0.0397 *

Venus 123419-05-30 06:55 G 46799072.67 46799072.79 46799072.91 0.3646 0.1704

Jupiter 123421-01-31 23:43 G 46799685.46 46799685.49 46799685.53 0.0484 0.0472

Jupiter 123421-05-01 16:02 G 46799775.01 46799775.17 46799775.32 0.0486 0.0158

Saturn 123421-07-25 05:14 G 46799859.63 46799859.72 46799859.81 0.0283 0.0226

Saturn 123421-10-21 22:02 G 46799948.27 46799948.42 46799948.58 0.0283 0.0054

Saturn 123422-01-18 15:05 G 46800036.99 46800037.13 46800037.28 0.0283 0.0124

Uranus 123423-12-22 05:29 G 46800739.65 46800739.73 46800739.82 0.0141 0.0120

Uranus 123424-03-19 10:45 G 46800827.84 46800827.95 46800828.08 0.0141 0.0097

Uranus 123424-06-15 16:17 G 46800916.05 46800916.18 46800916.32 0.0141 0.0074

Uranus 123424-09-11 21:48 G 46801004.27 46801004.41 46801004.57 0.0141 0.0051

Uranus 123424-12-09 03:33 G 46801092.49 46801092.65 46801092.81 0.0141 0.0027

Uranus 123425-03-07 09:05 G 46801180.72 46801180.88 46801181.04 0.0141 0.0003

Uranus 123425-06-03 14:36 G 46801268.95 46801269.11 46801269.28 0.0141 0.0021

Uranus 123425-08-30 20:07 G 46801357.19 46801357.34 46801357.51 0.0141 0.0045

Uranus 123425-11-27 01:53 G 46801445.44 46801445.58 46801445.73 0.0140 0.0068

Uranus 123426-02-23 07:38 G 46801533.70 46801533.82 46801533.95 0.0140 0.0092

Uranus 123426-05-22 13:24 G 46801621.98 46801622.06 46801622.16 0.0140 0.0117

Jupiter 123427-01-07 18:12 G 46801852.12 46801852.26 46801852.41 0.0543 0.0067

Moon 123430-11-15 03:48 G 46803259.56 46803259.66 46803259.76 0.2691 0.1536

Earth 123430-11-15 04:17 G 46803259.58 46803259.68 46803259.77 0.2685 0.1666 *

Mars 123432-03-07 15:05 G 46803738.02 46803738.13 46803738.24 0.1588 0.1073

Jupiter 123433-02-17 17:29 G 46804085.07 46804085.23 46804085.40 0.0485 0.0014

Mars 123434-12-23 09:19 G 46804758.80 46804758.89 46804758.97 0.1950 0.1356

Saturn 123436-05-28 11:29 G 46805280.85 46805280.98 46805281.11 0.0275 0.0130

Saturn 123436-08-25 01:38 G 46805369.42 46805369.57 46805369.72 0.0275 0.0023

Saturn 123436-11-21 15:33 G 46805458.04 46805458.15 46805458.26 0.0275 0.0172

Jupiter 123438-10-26 19:53 G 46806162.21 46806162.33 46806162.46 0.0544 0.0263

Jupiter 123439-01-24 11:43 G 46806251.96 46806251.99 46806252.02 0.0542 0.0525

Venus 123441-03-25 07:24 G 46807042.78 46807042.81 46807042.84 0.3738 0.3572

Mars 123441-07-28 20:36 G 46807168.21 46807168.36 46807168.52 0.1587 0.0056

Mars 123444-05-14 15:05 G 46808189.01 46808189.13 46808189.26 0.1952 0.0166

Jupiter 123444-12-06 18:55 G 46808395.14 46808395.29 46808395.44 0.0485 0.0159

Earth 123446-05-17 22:31 G 46808922.32 46808922.44 46808922.57 0.2646 0.0986

Moon 123446-05-17 23:43 G 46808922.36 46808922.49 46808922.62 0.2645 0.0726 *

Venus 123446-10-09 02:21 G 46809066.49 46809066.60 46809066.70 0.3734 0.1475

Jupiter 123450-08-14 21:48 G 46810472.34 46810472.41 46810472.49 0.0544 0.0455

Moon 123450-11-10 15:19 G 46810560.07 46810560.14 46810560.20 0.2693 0.2246

Earth 123450-11-10 15:48 G 46810560.09 46810560.16 46810560.24 0.2689 0.2066 *

Jupiter 123450-11-12 14:21 G 46810561.99 46810562.10 46810562.21 0.0543 0.0347

Mars 123450-12-19 02:21 G 46810598.48 46810598.60 46810598.72 0.1585 0.0963

Saturn 123451-03-10 21:33 G 46810680.26 46810680.40 46810680.55 0.0283 0.0113

Saturn 123451-06-07 14:36 G 46810768.95 46810769.11 46810769.27 0.0283 0.0062

Saturn 123451-09-04 07:53 G 46810857.75 46810857.83 46810857.92 0.0283 0.0241

Venus 123452-04-23 20:36 G 46811090.25 46811090.36 46811090.48 0.3731 0.0575

Mars 123453-10-04 20:36 G 46811619.31 46811619.36 46811619.42 0.1953 0.1741

Jupiter 123456-09-24 20:50 G 46812705.25 46812705.37 46812705.49 0.0485 0.0312

Jupiter 123456-12-23 13:24 G 46812794.94 46812795.06 46812795.18 0.0486 0.0327

Venus 123457-11-07 15:05 G 46813114.04 46813114.13 46813114.21 0.3727 0.2502

Moon 123459-05-20 22:17 G 46813673.31 46813673.43 46813673.55 0.2642 0.1359

Earth 123459-05-20 22:17 G 46813673.31 46813673.43 46813673.54 0.2648 0.1429 *

Jupiter 123462-08-31 16:31 G 46814872.06 46814872.19 46814872.33 0.0543 0.0160

Earth 123463-11-13 12:41 G 46815310.91 46815311.03 46815311.16 0.2686 0.0100

Moon 123463-11-13 13:09 G 46815310.93 46815311.05 46815311.17 0.2693 0.0169 *

Venus 123464-12-04 06:55 G 46815697.72 46815697.79 46815697.86 0.3639 0.3071

Saturn 123465-10-15 11:00 G 46816012.86 46816012.96 46816013.07 0.0276 0.0191

Saturn 123466-01-12 01:24 G 46816101.41 46816101.56 46816101.71 0.0276 0.0037

Saturn 123466-04-10 15:33 G 46816190.01 46816190.15 46816190.28 0.0276 0.0114

Saturn 123466-07-08 05:14 G 46816278.68 46816278.72 46816278.76 0.0276 0.0262

Uranus 123466-12-29 06:12 G 46816452.75 46816452.76 46816452.80 0.0137 0.0135

Uranus 123467-03-27 10:45 G 46816540.88 46816540.95 46816541.05 0.0137 0.0114

Uranus 123467-06-23 15:33 G 46816629.04 46816629.15 46816629.26 0.0137 0.0093

Uranus 123467-09-19 20:07 G 46816717.21 46816717.34 46816717.47 0.0137 0.0072

Uranus 123467-12-17 00:26 G 46816805.39 46816805.52 46816805.67 0.0137 0.0052

Uranus 123468-03-14 05:00 G 46816893.57 46816893.71 46816893.86 0.0137 0.0032

Uranus 123468-06-10 09:33 G 46816981.75 46816981.90 46816982.05 0.0137 0.0011

Jupiter 123468-07-13 22:31 G 46817015.40 46817015.44 46817015.48 0.0484 0.0464

Uranus 123468-09-06 13:53 G 46817069.93 46817070.08 46817070.23 0.0137 0.0009

Jupiter 123468-10-11 14:36 G 46817104.96 46817105.11 46817105.26 0.0486 0.0166

Uranus 123468-12-03 18:12 G 46817158.12 46817158.26 46817158.41 0.0137 0.0029

Uranus 123469-03-01 22:31 G 46817246.30 46817246.44 46817246.58 0.0138 0.0049

Uranus 123469-05-29 02:50 G 46817334.49 46817334.62 46817334.75 0.0138 0.0069

Uranus 123469-08-25 07:09 G 46817422.69 46817422.80 46817422.91 0.0138 0.0089

Neptune 123469-09-26 11:00 G 46817454.94 46817454.96 46817455.02 0.0089 0.0086

Uranus 123469-11-21 11:14 G 46817510.89 46817510.97 46817511.07 0.0138 0.0109

Neptune 123469-12-23 13:38 G 46817543.00 46817543.07 46817543.15 0.0089 0.0078

Uranus 123470-02-17 15:19 G 46817599.10 46817599.14 46817599.20 0.0138 0.0129

Neptune 123470-03-21 16:02 G 46817631.08 46817631.17 46817631.28 0.0089 0.0070

Neptune 123470-06-17 18:41 G 46817719.16 46817719.28 46817719.40 0.0089 0.0062

Venus 123470-06-20 06:26 G 46817721.64 46817721.77 46817721.91 0.3643 0.0310

Neptune 123470-09-13 21:05 G 46817807.25 46817807.38 46817807.51 0.0089 0.0054

Neptune 123470-12-10 23:29 G 46817895.34 46817895.48 46817895.63 0.0089 0.0046

Neptune 123471-03-09 02:07 G 46817983.44 46817983.59 46817983.74 0.0089 0.0038

Neptune 123471-06-05 04:31 G 46818071.53 46818071.69 46818071.85 0.0089 0.0030

Neptune 123471-09-01 06:55 G 46818159.63 46818159.79 46818159.96 0.0089 0.0022

Mars 123471-09-06 15:33 G 46818165.06 46818165.15 46818165.25 0.1588 0.1245

Neptune 123471-11-28 09:33 G 46818247.73 46818247.90 46818248.06 0.0089 0.0014

Neptune 123472-02-24 11:57 G 46818335.84 46818336.00 46818336.17 0.0089 0.0006

Neptune 123472-05-22 14:36 G 46818423.94 46818424.11 46818424.28 0.0089 0.0002

Neptune 123472-08-18 17:00 G 46818512.05 46818512.21 46818512.38 0.0089 0.0011

Neptune 123472-11-14 19:38 G 46818600.16 46818600.32 46818600.49 0.0089 0.0019

Neptune 123473-02-10 22:02 G 46818688.27 46818688.42 46818688.59 0.0089 0.0027

Neptune 123473-05-10 00:41 G 46818776.38 46818776.53 46818776.69 0.0089 0.0035

Neptune 123473-08-06 03:05 G 46818864.50 46818864.63 46818864.79 0.0089 0.0044

Neptune 123473-11-02 05:43 G 46818952.62 46818952.74 46818952.89 0.0089 0.0052

Neptune 123474-01-29 08:36 G 46819040.74 46819040.86 46819040.99 0.0089 0.0060

Neptune 123474-04-27 11:00 G 46819128.87 46819128.96 46819129.08 0.0089 0.0069

Jupiter 123474-06-19 18:12 G 46819182.11 46819182.26 46819182.40 0.0543 0.0039

Mars 123474-06-23 09:19 G 46819185.82 46819185.89 46819185.97 0.1950 0.1532

Neptune 123474-07-24 13:38 G 46819217.00 46819217.07 46819217.16 0.0089 0.0077

Neptune 123474-10-20 16:02 G 46819305.15 46819305.17 46819305.24 0.0089 0.0086

Venus 123476-01-04 06:55 G 46819745.70 46819745.79 46819745.87 0.3647 0.2676

Earth 123476-11-15 09:19 G 46820061.82 46820061.89 46820061.97 0.2684 0.2082

Moon 123476-11-15 10:17 G 46820061.86 46820061.93 46820062.00 0.2682 0.2148 *

Saturn 123480-07-27 21:33 G 46821412.28 46821412.40 46821412.53 0.0283 0.0169

Jupiter 123480-07-30 16:17 G 46821415.02 46821415.18 46821415.34 0.0485 0.0014

Saturn 123480-10-24 14:36 G 46821500.95 46821501.11 46821501.27 0.0283 0.0006

Saturn 123481-01-21 07:53 G 46821589.71 46821589.83 46821589.95 0.0283 0.0183

Mars 123481-01-26 21:05 G 46821595.23 46821595.38 46821595.53 0.1587 0.0212

Mars 123483-11-13 15:05 G 46822616.01 46822616.13 46822616.26 0.1951 0.0040

Jupiter 123486-04-07 18:26 G 46823492.15 46823492.27 46823492.40 0.0544 0.0259

Jupiter 123486-07-06 10:17 G 46823581.91 46823581.93 46823581.96 0.0542 0.0529

Mars 123490-06-19 02:50 G 46825025.49 46825025.62 46825025.75 0.1586 0.0809

Moon 123492-05-18 03:19 G 46825724.51 46825724.64 46825724.77 0.2642 0.0541

Earth 123492-05-18 04:02 G 46825724.54 46825724.67 46825724.81 0.2646 0.0506 *

Jupiter 123492-05-18 18:12 G 46825725.10 46825725.26 46825725.41 0.0485 0.0143

Mars 123493-04-04 20:50 G 46826046.30 46826046.37 46826046.44 0.1953 0.1569

Saturn 123495-03-04 13:53 G 46826744.99 46826745.08 46826745.16 0.0276 0.0222

Saturn 123495-06-01 04:02 G 46826833.53 46826833.67 46826833.82 0.0275 0.0068

Saturn 123495-08-28 18:12 G 46826922.12 46826922.26 46826922.41 0.0275 0.0084

Saturn 123495-11-25 07:53 G 46827010.76 46827010.83 46827010.92 0.0275 0.0233

Earth 123496-11-10 21:05 G 46827362.29 46827362.38 46827362.48 0.2688 0.1621

Moon 123496-11-10 22:02 G 46827362.32 46827362.42 46827362.53 0.2690 0.1483 *

Venus 123497-10-30 05:43 G 46827715.67 46827715.74 46827715.82 0.3737 0.2883

Jupiter 123498-01-24 19:53 G 46827802.26 46827802.33 46827802.41 0.0544 0.0461

Jupiter 123498-04-24 12:26 G 46827891.91 46827892.02 46827892.13 0.0543 0.0342

Venus 123503-05-17 00:26 G 46829739.41 46829739.52 46829739.63 0.3733 0.0804

Jupiter 123504-03-07 19:38 G 46830035.19 46830035.32 46830035.44 0.0484 0.0302

Jupiter 123504-06-05 12:12 G 46830124.89 46830125.01 46830125.12 0.0486 0.0337

Moon 123505-05-22 02:50 G 46830475.51 46830475.62 46830475.72 0.2652 0.1683

Earth 123505-05-22 03:48 G 46830475.57 46830475.66 46830475.75 0.2649 0.1927 *

Uranus 123507-10-16 07:24 G 46831352.78 46831352.81 46831352.86 0.0141 0.0136

Uranus 123508-01-12 12:41 G 46831440.95 46831441.03 46831441.14 0.0141 0.0113

Uranus 123508-04-09 18:12 G 46831529.15 46831529.26 46831529.40 0.0141 0.0090

Uranus 123508-07-06 23:43 G 46831617.36 46831617.49 46831617.64 0.0141 0.0067

Uranus 123508-10-03 05:29 G 46831705.57 46831705.73 46831705.88 0.0141 0.0043

Venus 123508-11-29 18:55 G 46831763.18 46831763.29 46831763.40 0.3730 0.1200

Uranus 123508-12-30 11:00 G 46831793.80 46831793.96 46831794.12 0.0141 0.0020

Uranus 123509-03-28 16:31 G 46831882.03 46831882.19 46831882.36 0.0141 0.0005

Uranus 123509-06-24 22:17 G 46831970.27 46831970.43 46831970.59 0.0141 0.0028

Uranus 123509-09-21 03:48 G 46832058.51 46832058.66 46832058.82 0.0141 0.0052

Earth 123509-11-14 17:57 G 46832113.13 46832113.25 46832113.37 0.2686 0.0472

Moon 123509-11-14 18:12 G 46832113.14 46832113.26 46832113.39 0.2680 0.0559 *

Saturn 123509-12-15 21:33 G 46832144.31 46832144.40 46832144.49 0.0283 0.0225

Uranus 123509-12-18 09:19 G 46832146.76 46832146.89 46832147.04 0.0140 0.0076

Jupiter 123510-02-11 14:50 G 46832201.98 46832202.12 46832202.25 0.0543 0.0160

Saturn 123510-03-14 14:21 G 46832232.94 46832233.10 46832233.25 0.0283 0.0052

Uranus 123510-03-16 15:05 G 46832235.02 46832235.13 46832235.26 0.0140 0.0100

Saturn 123510-06-11 07:24 G 46832321.67 46832321.81 46832321.96 0.0283 0.0124

Uranus 123510-06-12 21:05 G 46832323.30 46832323.38 46832323.46 0.0140 0.0124

Mars 123511-03-08 16:02 G 46832592.10 46832592.17 46832592.24 0.1588 0.1410

Mars 123513-12-23 09:33 G 46833612.85 46833612.90 46833612.96 0.1949 0.1710

Venus 123514-06-15 13:09 G 46833786.99 46833787.05 46833787.11 0.3726 0.3122

Jupiter 123515-12-25 21:33 G 46834345.35 46834345.40 46834345.45 0.0484 0.0451

Jupiter 123516-03-24 13:24 G 46834434.92 46834435.06 46834435.22 0.0485 0.0179

Pluto 123518-03-15 08:07 G 46835155.78 46835155.84 46835155.96 0.0058 0.0052

Pluto 123518-06-11 09:33 G 46835243.79 46835243.90 46835244.05 0.0058 0.0044

Pluto 123518-09-07 11:00 G 46835331.82 46835331.96 46835332.13 0.0058 0.0036

Pluto 123518-12-04 12:12 G 46835419.86 46835420.01 46835420.20 0.0058 0.0028

Pluto 123519-03-02 13:38 G 46835507.90 46835508.07 46835508.27 0.0059 0.0020

Pluto 123519-05-29 15:05 G 46835595.95 46835596.13 46835596.33 0.0059 0.0012

Pluto 123519-08-25 16:31 G 46835684.00 46835684.19 46835684.39 0.0059 0.0003

Pluto 123519-11-21 17:57 G 46835772.05 46835772.25 46835772.44 0.0059 0.0005

Pluto 123520-02-17 19:09 G 46835860.11 46835860.30 46835860.50 0.0059 0.0013

Pluto 123520-05-15 20:21 G 46835948.18 46835948.35 46835948.54 0.0059 0.0021

Mars 123520-07-28 21:33 G 46836022.25 46836022.40 46836022.55 0.1587 0.0372

Pluto 123520-08-11 21:48 G 46836036.24 46836036.41 46836036.58 0.0059 0.0029

Pluto 123520-11-07 23:14 G 46836124.32 46836124.47 46836124.62 0.0059 0.0037

Pluto 123521-02-03 23:57 G 46836212.40 46836212.50 46836212.65 0.0059 0.0046

Pluto 123521-05-03 01:24 G 46836300.50 46836300.56 46836300.66 0.0059 0.0054

Venus 123521-07-12 06:26 G 46836370.67 46836370.77 46836370.88 0.3640 0.2188

Jupiter 123521-11-30 16:45 G 46836512.06 46836512.20 46836512.35 0.0543 0.0033

Moon 123522-11-17 13:53 G 46836864.03 46836864.08 46836864.13 0.2680 0.2367

Earth 123522-11-17 14:36 G 46836864.07 46836864.11 46836864.15 0.2684 0.2501 *

Mars 123523-05-15 15:19 G 46837043.01 46837043.14 46837043.26 0.1951 0.0174

Saturn 123524-10-19 03:48 G 46837565.53 46837565.66 46837565.79 0.0276 0.0129

Saturn 123525-01-15 17:57 G 46837654.10 46837654.25 46837654.40 0.0276 0.0024

Saturn 123525-04-14 07:53 G 46837742.72 46837742.83 46837742.95 0.0276 0.0173

Moon 123525-05-17 09:19 G 46837775.85 46837775.89 46837775.92 0.2644 0.2540

Earth 123525-05-17 10:17 G 46837775.88 46837775.93 46837775.99 0.2645 0.2351 *

Venus 123527-01-26 06:12 G 46838394.63 46838394.76 46838394.90 0.3644 0.0652

Jupiter 123528-01-11 15:05 G 46838744.96 46838745.13 46838745.29 0.0485 0.0022

Mars 123529-12-19 03:19 G 46839452.50 46839452.64 46839452.78 0.1586 0.0642

Mars 123532-10-04 20:50 G 46840473.29 46840473.37 46840473.46 0.1953 0.1391

Jupiter 123533-09-18 18:26 G 46840822.14 46840822.27 46840822.40 0.0544 0.0229

Moon 123538-05-20 09:33 G 46842526.77 46842526.90 46842527.03 0.2654 0.0017

Earth 123538-05-20 09:48 G 46842526.77 46842526.91 46842527.04 0.2647 0.0042 *

Saturn 123539-05-04 21:19 G 46842876.39 46842876.39 46842876.40 0.0283 0.0282

Saturn 123539-08-01 14:07 G 46842964.94 46842965.09 46842965.23 0.0283 0.0111

Saturn 123539-10-29 06:55 G 46843053.64 46843053.79 46843053.95 0.0283 0.0065

Jupiter 123539-10-30 16:45 G 46843055.05 46843055.20 46843055.36 0.0485 0.0134

Saturn 123540-01-26 00:26 G 46843142.44 46843142.52 46843142.60 0.0283 0.0243

Moon 123542-11-13 02:07 G 46844164.48 46844164.59 46844164.70 0.2682 0.1206

Earth 123542-11-13 02:36 G 46844164.49 46844164.61 46844164.72 0.2688 0.1180 *

Jupiter 123545-07-07 18:26 G 46845132.20 46845132.27 46845132.35 0.0544 0.0455

Jupiter 123545-10-05 11:00 G 46845221.85 46845221.96 46845222.07 0.0543 0.0347

Neptune 123550-07-28 16:02 G 46846979.16 46846979.17 46846979.20 0.0089 0.0087

Mars 123550-09-06 16:17 G 46847019.17 46847019.18 46847019.20 0.1588 0.1572

Neptune 123550-10-24 18:12 G 46847067.20 46847067.26 46847067.33 0.0089 0.0080

Uranus 123551-01-19 13:38 G 46847154.03 46847154.07 46847154.14 0.0137 0.0128

Neptune 123551-01-20 19:53 G 46847155.26 46847155.33 46847155.43 0.0089 0.0073

Uranus 123551-04-17 18:26 G 46847242.18 46847242.27 46847242.37 0.0137 0.0107

Neptune 123551-04-18 22:02 G 46847243.32 46847243.42 46847243.52 0.0089 0.0065

Earth 123551-05-23 09:19 G 46847277.84 46847277.89 46847277.95 0.2649 0.2428

Moon 123551-05-23 10:31 G 46847277.91 46847277.94 46847277.97 0.2651 0.2557 *

Uranus 123551-07-14 23:00 G 46847330.35 46847330.46 46847330.58 0.0137 0.0086

Neptune 123551-07-15 23:57 G 46847331.39 46847331.50 46847331.62 0.0089 0.0058

Jupiter 123551-08-18 18:41 G 46847365.16 46847365.28 46847365.41 0.0485 0.0285

Uranus 123551-10-11 03:33 G 46847418.52 46847418.65 46847418.79 0.0137 0.0066

Neptune 123551-10-12 01:38 G 46847419.46 46847419.57 46847419.71 0.0089 0.0051

Jupiter 123551-11-16 11:14 G 46847454.86 46847454.97 46847455.08 0.0486 0.0355

Uranus 123552-01-07 08:07 G 46847506.70 46847506.84 46847506.98 0.0137 0.0045

Neptune 123552-01-08 03:48 G 46847507.53 46847507.66 46847507.79 0.0088 0.0043

Uranus 123552-04-04 12:26 G 46847594.88 46847595.02 46847595.17 0.0137 0.0025

Neptune 123552-04-05 05:43 G 46847595.60 46847595.74 46847595.88 0.0088 0.0036

Uranus 123552-07-01 17:00 G 46847683.06 46847683.21 46847683.36 0.0137 0.0004

Neptune 123552-07-02 07:24 G 46847683.68 46847683.81 46847683.96 0.0088 0.0029

Uranus 123552-09-27 21:19 G 46847771.24 46847771.39 46847771.54 0.0137 0.0016

Neptune 123552-09-28 09:19 G 46847771.75 46847771.89 46847772.04 0.0088 0.0022

Uranus 123552-12-25 01:38 G 46847859.43 46847859.57 46847859.72 0.0137 0.0036

Neptune 123552-12-25 11:14 G 46847859.83 46847859.97 46847860.12 0.0088 0.0014

Uranus 123553-03-23 05:57 G 46847947.62 46847947.75 46847947.89 0.0138 0.0056

Neptune 123553-03-23 13:09 G 46847947.90 46847948.05 46847948.20 0.0088 0.0007

Uranus 123553-06-19 10:17 G 46848035.81 46848035.93 46848036.06 0.0138 0.0076

Neptune 123553-06-19 15:05 G 46848035.98 46848036.13 46848036.28 0.0088 0.0001 *

Mars 123553-06-23 09:33 G 46848039.86 46848039.90 46848039.93 0.1949 0.1856

Uranus 123553-09-15 14:36 G 46848124.01 46848124.11 46848124.22 0.0138 0.0096

Neptune 123553-09-15 17:00 G 46848124.06 46848124.21 46848124.36 0.0088 0.0008 *

Neptune 123553-12-12 18:41 G 46848212.14 46848212.28 46848212.43 0.0088 0.0015

Uranus 123553-12-12 18:41 G 46848212.21 46848212.28 46848212.37 0.0138 0.0116 *

Saturn 123554-03-08 06:26 G 46848297.65 46848297.77 46848297.90 0.0276 0.0160

Neptune 123554-03-10 20:36 G 46848300.21 46848300.36 46848300.50 0.0088 0.0022

Uranus 123554-03-10 23:14 G 46848300.44 46848300.47 46848300.49 0.0138 0.0135 *

Saturn 123554-06-04 20:50 G 46848386.22 46848386.37 46848386.52 0.0276 0.0007

Neptune 123554-06-06 22:17 G 46848388.29 46848388.43 46848388.57 0.0088 0.0029

Venus 123554-06-07 04:17 G 46848388.58 46848388.68 46848388.77 0.3736 0.2199

Saturn 123554-09-01 10:45 G 46848474.83 46848474.95 46848475.08 0.0276 0.0144

Neptune 123554-09-02 23:57 G 46848476.37 46848476.50 46848476.64 0.0088 0.0036

Neptune 123554-11-30 01:53 G 46848564.46 46848564.58 46848564.71 0.0088 0.0043

Neptune 123555-02-26 03:33 G 46848652.54 46848652.65 46848652.78 0.0088 0.0050

Neptune 123555-05-25 05:14 G 46848740.62 46848740.72 46848740.84 0.0088 0.0058

Neptune 123555-08-21 06:55 G 46848828.71 46848828.79 46848828.91 0.0088 0.0065

Moon 123555-11-15 22:17 G 46848915.31 46848915.43 46848915.55 0.2686 0.0716

Earth 123555-11-15 23:14 G 46848915.36 46848915.47 46848915.59 0.2686 0.0912 *

Neptune 123555-11-17 08:50 G 46848916.79 46848916.87 46848916.97 0.0088 0.0071

Neptune 123556-02-13 10:45 G 46849004.89 46849004.95 46849005.02 0.0088 0.0078

Neptune 123556-05-11 12:26 G 46849092.99 46849093.02 46849093.07 0.0088 0.0085

Jupiter 123557-07-24 12:41 G 46849531.90 46849532.03 46849532.17 0.0543 0.0155

Venus 123559-12-21 22:45 G 46850412.34 46850412.45 46850412.56 0.3732 0.0138

Mars 123560-01-27 21:48 G 46850449.27 46850449.41 46850449.56 0.1587 0.0532

Mars 123562-11-13 15:33 G 46851470.03 46851470.15 46851470.27 0.1952 0.0356

Jupiter 123563-06-06 20:21 G 46851675.29 46851675.35 46851675.41 0.0484 0.0442

Jupiter 123563-09-04 12:12 G 46851764.87 46851765.01 46851765.16 0.0485 0.0188

Venus 123565-07-06 17:00 G 46852436.12 46852436.21 46852436.31 0.3729 0.1845

Saturn 123568-12-18 14:07 G 46853696.97 46853697.09 46853697.22 0.0283 0.0164

Saturn 123569-03-17 07:09 G 46853785.64 46853785.80 46853785.96 0.0283 0.0011

Jupiter 123569-05-12 15:05 G 46853841.98 46853842.13 46853842.27 0.0544 0.0036

Saturn 123569-06-14 00:12 G 46853874.40 46853874.51 46853874.63 0.0283 0.0187

Mars 123569-06-19 03:33 G 46853879.51 46853879.65 46853879.80 0.1586 0.0482

Earth 123571-05-18 15:48 G 46854578.07 46854578.16 46854578.26 0.2645 0.1883

Moon 123571-05-18 16:45 G 46854578.10 46854578.20 46854578.30 0.2650 0.1735 *

Mars 123572-04-04 21:05 G 46854900.29 46854900.38 46854900.48 0.1953 0.1214

Jupiter 123575-06-23 13:53 G 46856074.92 46856075.08 46856075.24 0.0485 0.0030

Venus 123578-02-16 05:57 G 46857043.63 46857043.75 46857043.88 0.3641 0.1313

Mars 123578-11-09 09:33 G 46857309.85 46857309.90 46857309.95 0.1585 0.1472

Jupiter 123581-02-28 17:00 G 46858152.08 46858152.21 46858152.34 0.0544 0.0223

Saturn 123583-07-26 06:12 G 46859029.67 46859029.76 46859029.85 0.0275 0.0221

Venus 123583-09-02 05:57 G 46859067.63 46859067.75 46859067.87 0.3645 0.1585

Saturn 123583-10-22 20:36 G 46859118.22 46859118.36 46859118.51 0.0275 0.0067

Saturn 123584-01-19 10:45 G 46859206.81 46859206.95 46859207.09 0.0275 0.0085

Saturn 123584-04-17 00:26 G 46859295.45 46859295.52 46859295.60 0.0275 0.0234

Earth 123584-05-20 15:19 G 46859329.00 46859329.14 46859329.27 0.2647 0.0481

Moon 123584-05-20 16:17 G 46859329.05 46859329.18 46859329.31 0.2644 0.0596 *

Jupiter 123587-04-11 15:19 G 46860384.99 46860385.14 46860385.30 0.0485 0.0128

Moon 123588-11-13 07:09 G 46860966.68 46860966.80 46860966.91 0.2693 0.0760

Earth 123588-11-13 07:38 G 46860966.70 46860966.82 46860966.94 0.2688 0.0741 *

Uranus 123591-11-05 14:21 G 46862054.06 46862054.10 46862054.18 0.0141 0.0130

Uranus 123592-02-01 19:53 G 46862142.24 46862142.33 46862142.44 0.0141 0.0107

Uranus 123592-04-30 01:24 G 46862230.44 46862230.56 46862230.70 0.0141 0.0084

Uranus 123592-07-27 06:55 G 46862318.65 46862318.79 46862318.94 0.0141 0.0061

Uranus 123592-10-23 12:26 G 46862406.87 46862407.02 46862407.18 0.0141 0.0038

Jupiter 123592-12-17 18:26 G 46862462.18 46862462.27 46862462.36 0.0544 0.0425

Uranus 123593-01-19 17:57 G 46862495.09 46862495.25 46862495.42 0.0141 0.0014

Jupiter 123593-03-17 10:45 G 46862551.85 46862551.95 46862552.05 0.0542 0.0375

Uranus 123593-04-17 23:43 G 46862583.32 46862583.49 46862583.65 0.0141 0.0010

Uranus 123593-07-15 05:14 G 46862671.56 46862671.72 46862671.88 0.0141 0.0033

Uranus 123593-10-11 10:45 G 46862759.81 46862759.95 46862760.11 0.0141 0.0058

Uranus 123594-01-07 16:31 G 46862848.06 46862848.19 46862848.33 0.0140 0.0081

Uranus 123594-04-05 22:02 G 46862936.32 46862936.42 46862936.54 0.0140 0.0106

Uranus 123594-07-03 04:02 G 46863024.61 46863024.67 46863024.74 0.0140 0.0130

Saturn 123598-05-07 13:38 G 46864428.98 46864429.07 46864429.17 0.0283 0.0225

Saturn 123598-08-04 06:26 G 46864517.62 46864517.77 46864517.93 0.0283 0.0053

Saturn 123598-10-31 23:29 G 46864606.34 46864606.48 46864606.63 0.0283 0.0124

Jupiter 123599-01-28 17:29 G 46864695.10 46864695.23 46864695.36 0.0485 0.0276

Jupiter 123599-04-28 10:02 G 46864784.82 46864784.92 46864785.03 0.0486 0.0364

Mars 123599-07-28 22:17 G 46864876.29 46864876.43 46864876.57 0.1587 0.0700

Earth 123601-11-16 04:31 G 46865717.58 46865717.69 46865717.79 0.2686 0.1334

Moon 123601-11-16 05:14 G 46865717.61 46865717.72 46865717.82 0.2690 0.1379 *

Mars 123602-05-14 15:33 G 46865897.03 46865897.15 46865897.26 0.1951 0.0511

Jupiter 123605-01-03 11:29 G 46866861.85 46866861.98 46866862.12 0.0543 0.0160

Venus 123605-06-28 07:38 G 46867037.80 46867037.82 46867037.84 0.3739 0.3633

Mars 123608-12-18 04:02 G 46868306.52 46868306.67 46868306.81 0.1586 0.0327

Jupiter 123610-11-16 19:24 G 46869005.24 46869005.31 46869005.39 0.0484 0.0426

Venus 123611-01-12 02:21 G 46869061.50 46869061.60 46869061.71 0.3735 0.1522

Jupiter 123611-02-14 11:29 G 46869094.84 46869094.98 46869095.13 0.0486 0.0205

Mars 123611-10-04 21:05 G 46869327.28 46869327.38 46869327.49 0.1953 0.1050

Saturn 123612-12-12 08:50 G 46869761.81 46869761.87 46869761.93 0.0276 0.0252

Saturn 123613-03-10 23:14 G 46869850.33 46869850.47 46869850.62 0.0276 0.0097

Saturn 123613-06-07 13:38 G 46869938.92 46869939.07 46869939.21 0.0276 0.0056

Saturn 123613-09-04 03:19 G 46870027.55 46870027.64 46870027.74 0.0276 0.0205

Pluto 123616-05-09 19:09 G 46871006.25 46871006.30 46871006.38 0.0085 0.0073

Venus 123616-07-27 20:50 G 46871085.26 46871085.37 46871085.49 0.3732 0.0537

Pluto 123616-08-05 20:36 G 46871094.27 46871094.36 46871094.47 0.0085 0.0055

Jupiter 123616-10-22 13:09 G 46871171.90 46871172.05 46871172.19 0.0544 0.0042

Pluto 123616-11-01 22:02 G 46871182.30 46871182.42 46871182.54 0.0085 0.0038

Pluto 123617-01-28 23:14 G 46871270.35 46871270.47 46871270.60 0.0085 0.0022

Pluto 123617-04-27 00:41 G 46871358.39 46871358.53 46871358.66 0.0085 0.0005

Earth 123617-05-18 21:19 G 46871380.28 46871380.39 46871380.51 0.2645 0.1405

Moon 123617-05-18 21:48 G 46871380.29 46871380.41 46871380.53 0.2639 0.1272 *

Pluto 123617-07-24 01:53 G 46871446.45 46871446.58 46871446.71 0.0085 0.0012

Pluto 123617-10-20 03:05 G 46871534.51 46871534.63 46871534.76 0.0085 0.0029

Pluto 123618-01-16 04:02 G 46871622.57 46871622.67 46871622.80 0.0085 0.0046

Pluto 123618-04-14 05:29 G 46871710.65 46871710.73 46871710.83 0.0084 0.0062

Mars 123618-05-10 09:48 G 46871736.83 46871736.91 46871736.99 0.1585 0.1320

Pluto 123618-07-11 06:55 G 46871798.74 46871798.79 46871798.84 0.0084 0.0078

Earth 123621-11-11 16:02 G 46873018.12 46873018.17 46873018.22 0.2690 0.2429

Moon 123621-11-11 16:17 G 46873018.13 46873018.18 46873018.23 0.2697 0.2461 *

Venus 123622-02-10 15:19 G 46873109.06 46873109.14 46873109.22 0.3728 0.2473

Jupiter 123622-12-03 12:41 G 46873404.87 46873405.03 46873405.19 0.0485 0.0039

Saturn 123627-09-24 14:21 G 46875161.07 46875161.10 46875161.15 0.0283 0.0272

Saturn 123627-12-22 07:09 G 46875249.66 46875249.80 46875249.95 0.0283 0.0100

Saturn 123628-03-20 00:12 G 46875338.36 46875338.51 46875338.67 0.0283 0.0075

Saturn 123628-06-16 17:29 G 46875427.16 46875427.23 46875427.30 0.0283 0.0254

Jupiter 123628-08-10 15:05 G 46875482.00 46875482.13 46875482.26 0.0544 0.0230

Venus 123629-03-09 06:12 G 46875692.69 46875692.76 46875692.82 0.3639 0.3168

Moon 123630-05-21 19:53 G 46876131.20 46876131.33 46876131.46 0.2644 0.0730

Earth 123630-05-21 20:50 G 46876131.25 46876131.37 46876131.50 0.2647 0.0975 *

Neptune 123634-06-24 10:02 G 46877625.87 46877625.92 46877625.99 0.0089 0.0082

Neptune 123634-09-20 12:41 G 46877713.94 46877714.03 46877714.12 0.0089 0.0074

Jupiter 123634-09-21 14:21 G 46877714.94 46877715.10 46877715.25 0.0485 0.0116

Venus 123634-09-23 05:43 G 46877716.61 46877716.74 46877716.87 0.3642 0.0401

Earth 123634-11-14 12:55 G 46877768.92 46877769.04 46877769.16 0.2688 0.0304

Moon 123634-11-14 13:53 G 46877768.96 46877769.08 46877769.20 0.2687 0.0088 *

Neptune 123634-12-17 15:05 G 46877802.02 46877802.13 46877802.24 0.0089 0.0066

Uranus 123635-02-08 21:19 G 46877855.33 46877855.39 46877855.47 0.0137 0.0121

Neptune 123635-03-15 17:29 G 46877890.11 46877890.23 46877890.36 0.0089 0.0058

Uranus 123635-05-08 01:53 G 46877943.48 46877943.58 46877943.69 0.0137 0.0101

Neptune 123635-06-11 19:38 G 46877978.20 46877978.32 46877978.47 0.0089 0.0051

Uranus 123635-08-04 06:26 G 46878031.65 46878031.77 46878031.90 0.0137 0.0080

Neptune 123635-09-07 22:17 G 46878066.29 46878066.43 46878066.58 0.0089 0.0043

Uranus 123635-10-31 11:00 G 46878119.82 46878119.96 46878120.10 0.0137 0.0059

Neptune 123635-12-05 00:41 G 46878154.39 46878154.53 46878154.69 0.0089 0.0035

Uranus 123636-01-27 15:33 G 46878208.00 46878208.15 46878208.29 0.0137 0.0039

Neptune 123636-03-02 03:05 G 46878242.48 46878242.63 46878242.80 0.0089 0.0027

Uranus 123636-04-24 19:53 G 46878296.18 46878296.33 46878296.48 0.0137 0.0018

Neptune 123636-05-29 05:57 G 46878330.58 46878330.75 46878330.91 0.0089 0.0018

Uranus 123636-07-22 00:26 G 46878384.37 46878384.52 46878384.67 0.0137 0.0003

Neptune 123636-08-25 08:21 G 46878418.69 46878418.85 46878419.02 0.0089 0.0010

Uranus 123636-10-18 04:45 G 46878472.55 46878472.70 46878472.85 0.0137 0.0022

Neptune 123636-11-21 11:00 G 46878506.79 46878506.96 46878507.12 0.0089 0.0003

Uranus 123637-01-14 09:05 G 46878560.74 46878560.88 46878561.03 0.0138 0.0043

Neptune 123637-02-17 13:24 G 46878594.90 46878595.06 46878595.23 0.0089 0.0006

Uranus 123637-04-12 13:24 G 46878648.93 46878649.06 46878649.20 0.0138 0.0063

Neptune 123637-05-16 16:02 G 46878683.00 46878683.17 46878683.33 0.0089 0.0014

Uranus 123637-07-09 17:43 G 46878737.12 46878737.24 46878737.36 0.0138 0.0083

Neptune 123637-08-12 18:26 G 46878771.11 46878771.27 46878771.44 0.0089 0.0023

Uranus 123637-10-05 21:48 G 46878825.32 46878825.41 46878825.52 0.0138 0.0103

Neptune 123637-11-08 20:50 G 46878859.22 46878859.37 46878859.54 0.0089 0.0031

Uranus 123638-01-02 02:21 G 46878913.53 46878913.60 46878913.67 0.0138 0.0122

Neptune 123638-02-04 23:43 G 46878947.34 46878947.49 46878947.64 0.0089 0.0039

Neptune 123638-05-04 01:53 G 46879035.45 46879035.58 46879035.74 0.0089 0.0048

Neptune 123638-07-31 04:31 G 46879123.57 46879123.69 46879123.84 0.0089 0.0056

Neptune 123638-10-27 07:24 G 46879211.70 46879211.81 46879211.93 0.0089 0.0064

Neptune 123639-01-23 09:48 G 46879299.83 46879299.91 46879300.02 0.0089 0.0073

Mars 123639-01-26 22:45 G 46879303.32 46879303.45 46879303.58 0.1587 0.0867

Neptune 123639-04-21 12:26 G 46879387.97 46879388.02 46879388.10 0.0089 0.0081

Venus 123640-04-08 05:57 G 46879740.65 46879740.75 46879740.84 0.3646 0.2534

Jupiter 123640-05-29 16:45 G 46879792.12 46879792.20 46879792.29 0.0544 0.0423

Jupiter 123640-08-27 09:19 G 46879881.79 46879881.89 46879881.99 0.0543 0.0379

Mars 123641-11-12 15:33 G 46880324.04 46880324.15 46880324.27 0.1951 0.0680

Saturn 123642-07-28 23:14 G 46880582.35 46880582.47 46880582.59 0.0275 0.0156

Saturn 123642-10-25 13:38 G 46880670.92 46880671.07 46880671.22 0.0275 0.0007

Saturn 123643-01-22 03:33 G 46880759.53 46880759.65 46880759.78 0.0275 0.0147

Jupiter 123646-07-10 16:02 G 46882025.04 46882025.17 46882025.30 0.0485 0.0272

Jupiter 123646-10-08 08:21 G 46882114.75 46882114.85 46882114.96 0.0486 0.0369

Earth 123647-11-17 09:33 G 46882519.81 46882519.90 46882519.99 0.2685 0.1761

Moon 123647-11-17 09:48 G 46882519.82 46882519.91 46882520.01 0.2679 0.1740 *

Mars 123648-06-18 04:17 G 46882733.53 46882733.68 46882733.84 0.1586 0.0164

Mars 123651-04-04 21:19 G 46883754.28 46883754.39 46883754.50 0.1953 0.0865

Jupiter 123652-06-15 11:14 G 46884191.83 46884191.97 46884192.10 0.0543 0.0187

Saturn 123657-05-10 06:26 G 46885981.65 46885981.77 46885981.90 0.0283 0.0163

Saturn 123657-08-06 23:14 G 46886070.32 46886070.47 46886070.63 0.0283 0.0013

Saturn 123657-11-03 16:31 G 46886159.07 46886159.19 46886159.31 0.0283 0.0188

Mars 123657-11-08 10:17 G 46886163.83 46886163.93 46886164.03 0.1585 0.1161

Jupiter 123658-04-28 17:57 G 46886335.18 46886335.25 46886335.33 0.0484 0.0419

Jupiter 123658-07-27 10:02 G 46886424.78 46886424.92 46886425.07 0.0486 0.0213

Venus 123662-02-02 05:57 G 46887710.68 46887710.75 46887710.82 0.3738 0.2938

Moon 123663-05-20 01:53 G 46888182.46 46888182.58 46888182.70 0.2648 0.1002

Earth 123663-05-20 03:05 G 46888182.50 46888182.63 46888182.75 0.2645 0.0917 *

Jupiter 123664-04-03 11:43 G 46888501.85 46888501.99 46888502.13 0.0543 0.0032

Venus 123667-08-19 00:41 G 46889734.42 46889734.53 46889734.64 0.3734 0.0856

Earth 123667-11-12 21:19 G 46889820.31 46889820.39 46889820.47 0.2690 0.1974

Moon 123667-11-12 21:48 G 46889820.32 46889820.41 46889820.50 0.2684 0.1894 *

Jupiter 123670-05-15 11:43 G 46890734.83 46890734.99 46890735.15 0.0485 0.0055

Saturn 123671-12-16 01:53 G 46891314.47 46891314.58 46891314.69 0.0276 0.0186

Saturn 123672-03-13 16:17 G 46891403.03 46891403.18 46891403.33 0.0276 0.0032

Saturn 123672-06-10 06:26 G 46891491.64 46891491.77 46891491.91 0.0276 0.0119

Saturn 123672-09-06 20:07 G 46891580.31 46891580.34 46891580.38 0.0276 0.0267

Venus 123673-03-03 19:09 G 46891758.19 46891758.30 46891758.41 0.3731 0.1161

Uranus 123675-11-25 22:02 G 46892755.35 46892755.42 46892755.50 0.0141 0.0123

Jupiter 123676-01-21 12:55 G 46892811.91 46892812.04 46892812.17 0.0544 0.0236

Uranus 123676-02-22 03:33 G 46892843.53 46892843.65 46892843.76 0.0141 0.0100

Uranus 123676-05-20 08:50 G 46892931.74 46892931.87 46892932.01 0.0141 0.0077

Earth 123676-05-22 02:21 G 46892933.49 46892933.60 46892933.72 0.2648 0.1472

Moon 123676-05-22 02:50 G 46892933.51 46892933.62 46892933.73 0.2654 0.1442 *

Uranus 123676-08-16 14:21 G 46893019.95 46893020.10 46893020.25 0.0141 0.0054

Uranus 123676-11-12 19:53 G 46893108.17 46893108.33 46893108.49 0.0141 0.0031

Uranus 123677-02-09 01:24 G 46893196.40 46893196.56 46893196.72 0.0141 0.0007

Uranus 123677-05-08 06:55 G 46893284.63 46893284.79 46893284.95 0.0141 0.0016

Uranus 123677-08-04 12:26 G 46893372.87 46893373.02 46893373.18 0.0141 0.0040

Uranus 123677-10-31 17:57 G 46893461.12 46893461.25 46893461.41 0.0141 0.0065

Uranus 123678-01-27 23:43 G 46893549.37 46893549.49 46893549.63 0.0140 0.0088

Uranus 123678-04-26 05:29 G 46893637.64 46893637.73 46893637.84 0.0140 0.0112

Uranus 123678-07-23 11:14 G 46893725.94 46893725.97 46893726.02 0.0140 0.0137

Mars 123678-07-27 23:00 G 46893730.35 46893730.46 46893730.58 0.1587 0.1027

Venus 123678-09-17 13:24 G 46893782.00 46893782.06 46893782.12 0.3727 0.3084

Moon 123680-11-14 17:43 G 46894571.11 46894571.24 46894571.36 0.2682 0.0102

Earth 123680-11-14 18:12 G 46894571.14 46894571.26 46894571.38 0.2687 0.0139 *

Mars 123681-05-13 15:48 G 46894751.05 46894751.16 46894751.27 0.1951 0.0868

Jupiter 123682-03-03 12:55 G 46895044.89 46895045.04 46895045.20 0.0485 0.0109

Venus 123685-10-14 05:43 G 46896365.64 46896365.74 46896365.84 0.3640 0.2295

Saturn 123686-09-27 07:38 G 46896713.72 46896713.82 46896713.94 0.0283 0.0205

Saturn 123686-12-25 00:26 G 46896802.37 46896802.52 46896802.68 0.0283 0.0034

Saturn 123687-03-23 17:29 G 46896891.10 46896891.23 46896891.37 0.0283 0.0144

Jupiter 123687-11-09 14:36 G 46897122.03 46897122.11 46897122.20 0.0544 0.0433

Mars 123687-12-18 04:45 G 46897160.55 46897160.70 46897160.85 0.1586 0.0010

Jupiter 123688-02-07 07:09 G 46897211.70 46897211.80 46897211.91 0.0543 0.0371

Mars 123690-10-03 21:19 G 46898181.28 46898181.39 46898181.51 0.1952 0.0706

Venus 123691-04-30 05:29 G 46898389.60 46898389.73 46898389.86 0.3643 0.0518

Moon 123693-11-17 14:07 G 46899322.01 46899322.09 46899322.17 0.2689 0.2032

Earth 123693-11-17 14:50 G 46899322.05 46899322.12 46899322.19 0.2685 0.2184 *

Jupiter 123693-12-20 14:50 G 46899354.98 46899355.12 46899355.25 0.0484 0.0263

Jupiter 123694-03-20 07:09 G 46899444.70 46899444.80 46899444.90 0.0486 0.0377

Venus 123696-11-13 05:43 G 46900413.71 46900413.74 46900413.77 0.3647 0.3506

Mars 123697-05-09 10:31 G 46900590.83 46900590.94 46900591.06 0.1585 0.1000

Jupiter 123699-11-26 09:33 G 46901521.77 46901521.90 46901522.03 0.0543 0.0187

Saturn 123701-05-05 01:53 G 46902046.52 46902046.58 46902046.66 0.0276 0.0243

Saturn 123701-08-01 16:31 G 46902135.05 46902135.19 46902135.33 0.0275 0.0088

Saturn 123701-10-29 06:41 G 46902223.64 46902223.78 46902223.93 0.0275 0.0064

Saturn 123702-01-25 20:36 G 46902312.27 46902312.36 46902312.46 0.0275 0.0213

Jupiter 123705-10-09 16:31 G 46903665.11 46903665.19 46903665.27 0.0484 0.0416

Jupiter 123706-01-07 08:21 G 46903754.71 46903754.85 46903755.00 0.0485 0.0215

Earth 123709-05-21 08:36 G 46904984.73 46904984.86 46904984.99 0.2646 0.0432

Moon 123709-05-21 09:33 G 46904984.77 46904984.90 46904985.03 0.2648 0.0231 *

Jupiter 123711-09-15 11:14 G 46905831.83 46905831.97 46905832.11 0.0543 0.0011

Moon 123713-11-14 01:38 G 46906622.47 46906622.57 46906622.67 0.2690 0.1648

Earth 123713-11-14 02:36 G 46906622.51 46906622.61 46906622.71 0.2689 0.1528 *

Neptune 123715-04-25 14:50 G 46907150.10 46907150.12 46907150.19 0.0089 0.0085

Neptune 123715-07-22 17:00 G 46907238.15 46907238.21 46907238.30 0.0089 0.0077

Neptune 123715-10-18 18:55 G 46907326.21 46907326.29 46907326.40 0.0089 0.0070

Neptune 123716-01-14 21:05 G 46907414.28 46907414.38 46907414.49 0.0089 0.0062

Saturn 123716-02-15 07:09 G 46907445.75 46907445.80 46907445.85 0.0283 0.0267

Neptune 123716-04-11 23:00 G 46907502.35 46907502.46 46907502.58 0.0089 0.0055

Saturn 123716-05-13 23:43 G 46907534.34 46907534.49 46907534.64 0.0283 0.0097

Neptune 123716-07-09 00:41 G 46907590.42 46907590.53 46907590.67 0.0089 0.0048

Saturn 123716-08-10 16:45 G 46907623.05 46907623.20 46907623.35 0.0283 0.0078

Neptune 123716-10-05 02:50 G 46907678.49 46907678.62 46907678.76 0.0089 0.0040

Saturn 123716-11-07 10:02 G 46907711.86 46907711.92 46907711.99 0.0283 0.0257

Neptune 123717-01-01 04:45 G 46907766.56 46907766.70 46907766.84 0.0088 0.0033

Neptune 123717-03-30 06:41 G 46907854.64 46907854.78 46907854.93 0.0088 0.0025

Neptune 123717-06-26 08:21 G 46907942.71 46907942.85 46907943.01 0.0088 0.0019

Neptune 123717-09-22 10:31 G 46908030.79 46908030.94 46908031.09 0.0088 0.0011

Jupiter 123717-10-26 10:17 G 46908064.77 46908064.93 46908065.09 0.0485 0.0060

Neptune 123717-12-19 12:26 G 46908118.87 46908119.02 46908119.17 0.0088 0.0004

Mars 123718-01-26 23:29 G 46908157.38 46908157.48 46908157.58 0.1587 0.1195

Neptune 123718-03-17 14:07 G 46908206.94 46908207.09 46908207.24 0.0088 0.0004

Neptune 123718-06-13 16:02 G 46908295.02 46908295.17 46908295.32 0.0088 0.0011

Neptune 123718-09-09 17:43 G 46908383.10 46908383.24 46908383.39 0.0088 0.0018

Venus 123718-09-10 04:17 G 46908383.59 46908383.68 46908383.77 0.3737 0.2267

Uranus 123718-12-03 23:57 G 46908468.50 46908468.50 46908468.53 0.0137 0.0136

Neptune 123718-12-06 19:24 G 46908471.18 46908471.31 46908471.46 0.0088 0.0026

Uranus 123719-03-02 04:31 G 46908556.62 46908556.69 46908556.79 0.0137 0.0116

Neptune 123719-03-04 21:19 G 46908559.26 46908559.39 46908559.54 0.0088 0.0032

Uranus 123719-05-29 09:19 G 46908644.79 46908644.89 46908645.01 0.0137 0.0094

Neptune 123719-05-31 23:00 G 46908647.34 46908647.46 46908647.61 0.0088 0.0040

Uranus 123719-08-25 13:53 G 46908732.96 46908733.08 46908733.21 0.0137 0.0073

Neptune 123719-08-28 00:55 G 46908735.42 46908735.54 46908735.67 0.0088 0.0046

Uranus 123719-11-21 18:26 G 46908821.13 46908821.27 46908821.41 0.0137 0.0053

Neptune 123719-11-24 02:36 G 46908823.50 46908823.61 46908823.74 0.0088 0.0054

Uranus 123720-02-17 23:00 G 46908909.31 46908909.46 46908909.61 0.0137 0.0032

Neptune 123720-02-20 04:17 G 46908911.59 46908911.68 46908911.80 0.0088 0.0061

Uranus 123720-05-16 03:19 G 46908997.49 46908997.64 46908997.80 0.0137 0.0012

Neptune 123720-05-18 06:12 G 46908999.68 46908999.76 46908999.87 0.0088 0.0067

Uranus 123720-08-12 07:53 G 46909085.68 46909085.83 46909085.98 0.0137 0.0009

Neptune 123720-08-14 07:53 G 46909087.77 46909087.83 46909087.92 0.0088 0.0074

Uranus 123720-11-08 12:12 G 46909173.86 46909174.01 46909174.16 0.0137 0.0029

Neptune 123720-11-10 09:48 G 46909175.86 46909175.91 46909175.97 0.0088 0.0081

Mars 123720-11-12 15:48 G 46909178.05 46909178.16 46909178.26 0.1951 0.1015

Uranus 123721-02-04 16:31 G 46909262.05 46909262.19 46909262.33 0.0138 0.0049

Neptune 123721-02-06 11:29 G 46909263.98 46909263.98 46909264.01 0.0088 0.0088

Uranus 123721-05-03 20:50 G 46909350.25 46909350.37 46909350.50 0.0138 0.0069

Uranus 123721-07-31 01:09 G 46909438.44 46909438.55 46909438.67 0.0138 0.0089

Uranus 123721-10-27 05:29 G 46909526.64 46909526.73 46909526.82 0.0138 0.0109

Uranus 123722-01-23 09:33 G 46909614.86 46909614.90 46909614.96 0.0138 0.0129

Earth 123722-05-24 08:07 G 46909735.75 46909735.84 46909735.93 0.2648 0.1973

Moon 123722-05-24 08:50 G 46909735.79 46909735.87 46909735.96 0.2643 0.2053 *

Jupiter 123723-07-04 11:43 G 46910141.86 46910141.99 46910142.12 0.0544 0.0229

Venus 123724-03-25 23:00 G 46910407.34 46910407.46 46910407.57 0.3733 0.0229

Moon 123726-11-16 23:29 G 46911373.36 46911373.48 46911373.60 0.2694 0.0567

Earth 123726-11-16 23:29 G 46911373.36 46911373.48 46911373.60 0.2687 0.0577 *

Mars 123727-06-19 05:00 G 46911587.56 46911587.71 46911587.86 0.1586 0.0160

Jupiter 123729-08-14 11:57 G 46912374.84 46912375.00 46912375.15 0.0485 0.0097

Venus 123729-10-09 17:14 G 46912431.12 46912431.22 46912431.32 0.3730 0.1791

Mars 123730-04-04 21:33 G 46912608.28 46912608.40 46912608.52 0.1953 0.0525

Saturn 123730-09-22 04:17 G 46912778.68 46912778.68 46912778.70 0.0276 0.0276

Saturn 123730-12-19 19:09 G 46912867.16 46912867.30 46912867.43 0.0276 0.0119

Saturn 123731-03-18 09:19 G 46912955.75 46912955.89 46912956.04 0.0276 0.0035

Saturn 123731-06-14 23:29 G 46913044.37 46913044.48 46913044.59 0.0276 0.0184

Jupiter 123735-04-22 12:41 G 46914451.95 46914452.03 46914452.12 0.0544 0.0438

Venus 123735-04-25 11:29 G 46914454.97 46914454.98 46914454.99 0.3726 0.3699

Jupiter 123735-07-21 05:14 G 46914541.62 46914541.72 46914541.83 0.0543 0.0365

Mars 123736-11-08 11:00 G 46915017.83 46915017.96 46915018.09 0.1585 0.0840

Earth 123739-11-19 20:07 G 46916124.31 46916124.34 46916124.36 0.2685 0.2609

Jupiter 123741-06-02 13:09 G 46916684.92 46916685.05 46916685.19 0.0484 0.0258

Jupiter 123741-08-31 05:29 G 46916774.64 46916774.73 46916774.84 0.0486 0.0383

Earth 123742-05-19 14:50 G 46917036.06 46917036.12 46917036.19 0.2644 0.2276

Moon 123742-05-19 15:48 G 46917036.08 46917036.16 46917036.24 0.2641 0.2107 *

Venus 123742-05-22 05:14 G 46917038.60 46917038.72 46917038.84 0.3640 0.1410

Saturn 123745-10-01 01:38 G 46918266.43 46918266.57 46918266.71 0.0283 0.0133

Saturn 123745-12-28 18:26 G 46918355.11 46918355.27 46918355.43 0.0283 0.0041

Saturn 123746-03-27 11:29 G 46918443.89 46918443.98 46918444.09 0.0283 0.0219

Jupiter 123747-05-09 07:24 G 46918851.67 46918851.81 46918851.94 0.0543 0.0176

Venus 123747-12-06 05:14 G 46919062.60 46919062.72 46919062.84 0.3644 0.1458

Jupiter 123753-03-21 15:05 G 46920995.05 46920995.13 46920995.21 0.0484 0.0409

Jupiter 123753-06-19 06:55 G 46921084.65 46921084.79 46921084.94 0.0485 0.0221

Moon 123755-05-22 13:38 G 46921786.94 46921787.07 46921787.21 0.2639 0.0078

Earth 123755-05-22 14:07 G 46921786.96 46921787.09 46921787.22 0.2646 0.0053 *

Mars 123757-07-27 23:57 G 46922584.42 46922584.50 46922584.57 0.1587 0.1360

Jupiter 123759-02-25 09:19 G 46923161.75 46923161.89 46923162.04 0.0544 0.0020

Uranus 123759-09-19 23:29 G 46923368.48 46923368.48 46923368.50 0.0141 0.0141

Earth 123759-11-15 07:53 G 46923424.71 46923424.83 46923424.94 0.2689 0.1093

Moon 123759-11-15 08:36 G 46923424.75 46923424.86 46923424.98 0.2692 0.0898 *

Uranus 123759-12-17 05:00 G 46923456.63 46923456.71 46923456.80 0.0141 0.0118

Uranus 123760-03-14 10:17 G 46923544.82 46923544.93 46923545.06 0.0141 0.0095

Saturn 123760-05-07 19:38 G 46923599.20 46923599.32 46923599.44 0.0276 0.0172

Mars 123760-05-13 15:48 G 46923605.07 46923605.16 46923605.26 0.1951 0.1193

Uranus 123760-06-10 15:48 G 46923633.03 46923633.16 46923633.30 0.0141 0.0072

Saturn 123760-08-04 10:02 G 46923687.77 46923687.92 46923688.07 0.0276 0.0019

Uranus 123760-09-06 21:19 G 46923721.24 46923721.39 46923721.54 0.0141 0.0049

Saturn 123760-10-31 23:57 G 46923776.38 46923776.50 46923776.64 0.0276 0.0133

Uranus 123760-12-04 02:50 G 46923809.46 46923809.62 46923809.78 0.0141 0.0025

Uranus 123761-03-02 08:21 G 46923897.69 46923897.85 46923898.01 0.0141 0.0002

Uranus 123761-05-29 13:53 G 46923985.92 46923986.08 46923986.25 0.0141 0.0022

Uranus 123761-08-25 19:24 G 46924074.16 46924074.31 46924074.47 0.0141 0.0046

Uranus 123761-11-22 01:09 G 46924162.41 46924162.55 46924162.70 0.0140 0.0070

Uranus 123762-02-18 06:55 G 46924250.67 46924250.79 46924250.91 0.0140 0.0094

Uranus 123762-05-17 12:41 G 46924338.94 46924339.03 46924339.12 0.0140 0.0118

Jupiter 123765-04-07 08:21 G 46925394.69 46925394.85 46925395.01 0.0485 0.0060

Pluto 123766-07-08 12:26 G 46925851.99 46925852.02 46925852.12 0.0058 0.0056

Pluto 123766-10-04 13:53 G 46925939.99 46925940.08 46925940.22 0.0058 0.0048

Mars 123766-12-18 05:29 G 46926014.58 46926014.73 46926014.88 0.1586 0.0333

Pluto 123766-12-31 15:19 G 46926028.02 46926028.14 46926028.30 0.0058 0.0040

Pluto 123767-03-29 16:45 G 46926116.05 46926116.20 46926116.38 0.0058 0.0031

Pluto 123767-06-25 17:57 G 46926204.09 46926204.25 46926204.45 0.0058 0.0024

Pluto 123767-09-21 19:24 G 46926292.13 46926292.31 46926292.51 0.0059 0.0016

Pluto 123767-12-18 20:50 G 46926380.18 46926380.37 46926380.57 0.0059 0.0008

Pluto 123768-03-15 22:17 G 46926468.23 46926468.43 46926468.63 0.0059 0.0001

Moon 123768-05-24 12:41 G 46926537.96 46926538.03 46926538.09 0.2650 0.2297

Earth 123768-05-24 13:53 G 46926538.03 46926538.08 46926538.12 0.2648 0.2478 *

Pluto 123768-06-11 23:29 G 46926556.29 46926556.48 46926556.68 0.0059 0.0009

Pluto 123768-09-08 00:41 G 46926644.35 46926644.53 46926644.73 0.0059 0.0017

Pluto 123768-12-05 02:07 G 46926732.42 46926732.59 46926732.77 0.0059 0.0025

Pluto 123769-03-03 03:19 G 46926820.49 46926820.64 46926820.81 0.0059 0.0033

Pluto 123769-05-30 04:45 G 46926908.57 46926908.70 46926908.85 0.0059 0.0041

Pluto 123769-08-26 05:43 G 46926996.66 46926996.74 46926996.87 0.0059 0.0050

Venus 123769-10-01 07:38 G 46927032.81 46927032.82 46927032.83 0.3739 0.3715

Mars 123769-10-03 21:48 G 46927035.28 46927035.41 46927035.53 0.1952 0.0357

Pluto 123769-11-22 06:55 G 46927084.78 46927084.79 46927084.85 0.0059 0.0058

Jupiter 123770-12-14 11:00 G 46927471.83 46927471.96 46927472.09 0.0544 0.0209

Earth 123772-11-17 04:45 G 46928175.58 46928175.70 46928175.81 0.2687 0.1006

Moon 123772-11-17 05:29 G 46928175.61 46928175.73 46928175.84 0.2683 0.1051 *

Saturn 123775-02-18 00:55 G 46928998.43 46928998.54 46928998.65 0.0283 0.0196

Venus 123775-04-17 02:36 G 46929056.51 46929056.61 46929056.71 0.3736 0.1587

Saturn 123775-05-17 17:43 G 46929087.08 46929087.24 46929087.39 0.0283 0.0025

Saturn 123775-08-14 10:45 G 46929175.81 46929175.95 46929176.08 0.0283 0.0152

Mars 123776-05-09 11:14 G 46929444.84 46929444.97 46929445.11 0.1585 0.0683

Jupiter 123777-01-24 10:17 G 46929704.77 46929704.93 46929705.09 0.0485 0.0093

Mars 123779-02-24 03:05 G 46930465.63 46930465.63 46930465.63 0.1954 0.1953

Venus 123780-10-30 21:05 G 46931080.27 46931080.38 46931080.49 0.3732 0.0474

Jupiter 123782-10-02 11:14 G 46931781.89 46931781.97 46931782.06 0.0544 0.0433

Jupiter 123782-12-31 03:48 G 46931871.56 46931871.66 46931871.76 0.0542 0.0369

Venus 123786-05-16 15:33 G 46933104.06 46933104.15 46933104.23 0.3729 0.2431

Moon 123788-05-19 19:09 G 46933838.21 46933838.30 46933838.39 0.2643 0.1912

Earth 123788-05-19 20:21 G 46933838.26 46933838.35 46933838.45 0.2644 0.1802 *

Jupiter 123788-11-12 11:57 G 46934014.87 46934015.00 46934015.14 0.0485 0.0248

Jupiter 123789-02-10 04:31 G 46934104.60 46934104.69 46934104.78 0.0486 0.0393

Saturn 123789-09-24 22:02 G 46934331.32 46934331.42 46934331.52 0.0276 0.0204

Saturn 123789-12-22 12:26 G 46934419.88 46934420.02 46934420.17 0.0276 0.0050

Saturn 123790-03-21 02:50 G 46934508.48 46934508.62 46934508.76 0.0276 0.0103

Saturn 123790-06-17 16:45 G 46934597.14 46934597.20 46934597.26 0.0276 0.0252

Venus 123793-06-12 05:29 G 46935687.67 46935687.73 46935687.79 0.3638 0.3242

Jupiter 123794-10-19 05:14 G 46936181.59 46936181.72 46936181.86 0.0543 0.0170

Mars 123797-01-26 00:12 G 46937011.47 46937011.51 46937011.55 0.1587 0.1524

Neptune 123798-12-24 06:41 G 46937708.75 46937708.78 46937708.82 0.0089 0.0086

Venus 123798-12-27 05:00 G 46937711.58 46937711.71 46937711.84 0.3641 0.0501

Neptune 123799-03-22 09:05 G 46937796.81 46937796.88 46937796.96 0.0089 0.0078

Neptune 123799-06-18 11:14 G 46937884.89 46937884.97 46937885.08 0.0089 0.0071

Neptune 123799-09-14 13:38 G 46937972.97 46937973.07 46937973.20 0.0089 0.0063

Mars 123799-11-12 16:02 G 46938032.09 46938032.17 46938032.26 0.1951 0.1377

Neptune 123799-12-11 16:02 G 46938061.06 46938061.17 46938061.32 0.0089 0.0055

Neptune 123800-03-09 18:41 G 46938149.15 46938149.28 46938149.43 0.0089 0.0047

Neptune 123800-06-05 21:05 G 46938237.24 46938237.38 46938237.54 0.0089 0.0039

Jupiter 123800-09-01 13:24 G 46938324.98 46938325.06 46938325.14 0.0484 0.0407

Neptune 123800-09-01 23:43 G 46938325.34 46938325.49 46938325.65 0.0089 0.0031

Neptune 123800-11-29 02:07 G 46938413.44 46938413.59 46938413.76 0.0089 0.0023

Jupiter 123800-11-30 05:14 G 46938414.58 46938414.72 46938414.87 0.0485 0.0224

Neptune 123801-02-25 04:45 G 46938501.54   46938501.70   46938501.86 0.0089 0.0015

Moon   123801-05-23 19:24 G 46938589.18   46938589.31   46938589.44 0.2652 0.0437

Earth   123801-05-23 19:38 G 46938589.19   46938589.32   46938589.46 0.2646 0.0546 *

Neptune 123801-05-24 07:09 G 46938589.64   46938589.80   46938589.97 0.0089 0.0007

Neptune 123801-08-20 09:48 G 46938677.74   46938677.91   46938678.08 0.0089 0.0002

Neptune 123801-11-16 12:12 G 46938765.85   46938766.01   46938766.18 0.0089 0.0010

Neptune 123802-02-12 14:50 G 46938853.96   46938854.12   46938854.28 0.0089 0.0018

Neptune 123802-05-11 17:14 G 46938942.07   46938942.22   46938942.39 0.0089 0.0027

Neptune 123802-08-07 19:38 G 46939030.18   46939030.32   46939030.49 0.0089 0.0035

Neptune 123802-11-03 22:17 G 46939118.29   46939118.43   46939118.59 0.0089 0.0043

Uranus   123802-12-25 07:38 G 46939169.77   46939169.82   46939169.87 0.0137 0.0129

Neptune 123803-01-31 01:09 G 46939206.41   46939206.55   46939206.69 0.0089 0.0051

Uranus   123803-03-23 12:12 G 46939257.92   46939258.01   46939258.11 0.0137 0.0108

Neptune 123803-04-29 03:19 G 46939294.53   46939294.64   46939294.78 0.0089 0.0060

Uranus   123803-06-19 16:45 G 46939346.09   46939346.20   46939346.32 0.0137 0.0088

Neptune 123803-07-26 06:12 G 46939382.66   46939382.76   46939382.87 0.0089 0.0068

Uranus   123803-09-15 21:19 G 46939434.26   46939434.39   46939434.53 0.0137 0.0067

Neptune 123803-10-22 08:21 G 46939470.79   46939470.85   46939470.96 0.0089 0.0077

Uranus   123803-12-13 01:53 G 46939522.44   46939522.58   46939522.73 0.0137 0.0046

Neptune 123804-01-18 11:14 G 46939558.94   46939558.97   46939559.03 0.0089 0.0085

Uranus   123804-03-10 06:26 G 46939610.62   46939610.77   46939610.92 0.0137 0.0026

Uranus   123804-06-06 10:45 G 46939698.80   46939698.95   46939699.11 0.0137 0.0006

Saturn   123804-07-08 03:19 G 46939730.55   46939730.64   46939730.74 0.0283 0.0226

Venus   123804-07-13 05:00 G 46939735.61   46939735.71   46939735.81 0.3645 0.2414

Uranus   123804-09-02 15:19 G 46939786.99   46939787.14   46939787.29 0.0137 0.0015

Saturn   123804-10-04 19:53 G 46939819.18   46939819.33   46939819.49 0.0283 0.0056

Uranus   123804-11-29 19:38 G 46939875.18   46939875.32   46939875.47 0.0137 0.0035

Saturn   123805-01-01 12:55 G 46939907.90   46939908.04   46939908.19 0.0283 0.0120

Uranus   123805-02-25 23:57 G 46939963.37   46939963.50   46939963.64 0.0138 0.0056

Uranus   123805-05-25 04:17 G 46940051.56   46940051.68   46940051.81 0.0138 0.0076

Uranus 123805-08-21 08:36 G 46940139.76 46940139.86 46940139.97 0.0138 0.0096

Moon 123805-11-16 12:55 G 46940226.92 46940227.04 46940227.16 0.2682 0.0590

Earth 123805-11-16 13:09 G 46940226.93 46940227.05 46940227.17 0.2689 0.0651 *

Uranus 123805-11-17 12:41 G 46940227.96 46940228.03 46940228.12 0.0138 0.0116

Uranus 123806-02-13 17:14 G 46940316.19 46940316.22 46940316.25 0.0138 0.0135

Mars 123806-06-19 05:57 G 46940441.60 46940441.75 46940441.89 0.1586 0.0494

Jupiter 123806-08-08 06:55 G 46940491.65 46940491.79 46940491.94 0.0544 0.0029

Mars 123809-04-04 21:48 G 46941462.29 46941462.41 46941462.53 0.1952 0.0179

Jupiter 123812-09-18 06:55 G 46942724.63 46942724.79 46942724.94 0.0485 0.0065

Mars 123815-11-09 11:43 G 46943871.85 46943871.99 46943872.13 0.1585 0.0518

Jupiter 123818-05-27 08:50 G 46944801.74 46944801.87 46944802.01 0.0544 0.0218

Mars 123818-08-26 03:05 G 46944892.58 46944892.63 46944892.68 0.1954 0.1774

Moon 123818-11-19 09:05 G 46944977.77 46944977.88 46944977.99 0.2686 0.1202

Earth 123818-11-19 10:02 G 46944977.81 46944977.92 46944978.02 0.2686 0.1440 *

Saturn 123819-02-12 22:45 G 46945063.40 46945063.45 46945063.51 0.0276 0.0254

Saturn 123819-05-12 13:24 G 46945151.92 46945152.06 46945152.20 0.0276 0.0099

Saturn 123819-08-09 03:48 G 46945240.51 46945240.66 46945240.81 0.0276 0.0054

Saturn 123819-11-05 17:43 G 46945329.14 46945329.24 46945329.34 0.0276 0.0203

Jupiter 123824-07-07 08:21 G 46947034.69 46947034.85 46947035.00 0.0485 0.0096

Mars 123825-03-31 17:43 G 46947302.20 46947302.24 46947302.28 0.1584 0.1511

Venus 123826-05-09 05:57 G 46947705.69 46947705.75 46947705.82 0.3738 0.3019

Jupiter 123830-03-15 10:31 G 46949111.85 46949111.94 46949112.03 0.0544 0.0417

Jupiter 123830-06-13 03:05 G 46949201.53 46949201.63 46949201.73 0.0543 0.0386

Venus 123831-11-23 00:55 G 46949729.43 46949729.54 46949729.65 0.3735 0.0912

Saturn 123834-02-21 19:09 G 46950551.16 46950551.30 46950551.45 0.0283 0.0119

Saturn 123834-05-21 11:57 G 46950639.85 46950640.00 46950640.16 0.0283 0.0055

Earth 123834-05-22 01:53 G 46950640.47 46950640.58 46950640.70 0.2644 0.1332

Moon 123834-05-22 02:36 G 46950640.49 46950640.61 46950640.72 0.2649 0.1165 *

Saturn 123834-08-18 05:14 G 46950728.63 46950728.72 46950728.81 0.0283 0.0232

Jupiter 123836-04-25 10:17 G 46951344.79 46951344.93 46951345.06 0.0485 0.0247

Jupiter 123836-07-24 02:36 G 46951434.52 46951434.61 46951434.71 0.0486 0.0394

Venus 123837-06-07 19:24 G 46951753.20 46951753.31 46951753.41 0.3731 0.1115

Moon 123838-11-14 20:36 G 46952278.32 46952278.36 46952278.40 0.2687 0.2519

Earth 123838-11-14 21:19 G 46952278.33 46952278.39 46952278.45 0.2691 0.2341 *

Mars 123839-05-14 16:02 G 46952459.10 46952459.17 46952459.25 0.1950 0.1529

Jupiter 123842-04-01 03:48 G 46953511.53 46953511.66 46953511.80 0.0543 0.0174

Venus 123842-12-22 13:38 G 46953777.01 46953777.07 46953777.13 0.3728 0.3056

Uranus 123843-10-11 06:41 G 46954069.75 46954069.78 46954069.84 0.0141 0.0135

Uranus 123844-01-07 12:12 G 46954157.92 46954158.01 46954158.11 0.0141 0.0112

Uranus 123844-04-04 17:29 G 46954246.12 46954246.23 46954246.36 0.0141 0.0089

Uranus 123844-07-01 23:00 G 46954334.32 46954334.46 46954334.61 0.0141 0.0066

Uranus 123844-09-28 04:31 G 46954422.54 46954422.69 46954422.85 0.0141 0.0043

Uranus 123844-12-25 10:02 G 46954510.76 46954510.92 46954511.08 0.0141 0.0019

Uranus 123845-03-23 15:33 G 46954598.99 46954599.15 46954599.32 0.0141 0.0005

Uranus 123845-06-19 21:05 G 46954687.22 46954687.38 46954687.55 0.0141 0.0028

Uranus 123845-09-16 02:50 G 46954775.47 46954775.62 46954775.77 0.0141 0.0052

Uranus 123845-12-13 08:21 G 46954863.72 46954863.85 46954863.99 0.0140 0.0076

Mars 123845-12-18 06:12 G 46954868.62 46954868.76 46954868.90 0.1586 0.0651

Uranus 123846-03-11 13:53 G 46954951.98 46954952.08 46954952.21 0.0140 0.0101

Uranus 123846-06-07 19:38 G 46955040.26 46955040.32 46955040.41 0.0140 0.0125

Earth 123847-05-25 01:09 G 46955391.43 46955391.55 46955391.68 0.2647 0.1030

Moon 123847-05-25 02:21 G 46955391.48 46955391.60 46955391.73 0.2645 0.1114 *

Jupiter 123848-02-12 11:57 G 46955654.92 46955655.00 46955655.09 0.0485 0.0401

Jupiter 123848-05-12 04:02 G 46955744.53 46955744.67 46955744.81 0.0486 0.0231

Saturn 123848-09-28 15:33 G 46955884.03 46955884.15 46955884.29 0.0277 0.0133

Mars 123848-10-03 21:48 G 46955889.29 46955889.41 46955889.54 0.1953 0.0046

Saturn 123848-12-26 06:12 G 46955972.61 46955972.76 46955972.91 0.0276 0.0022

Saturn 123849-03-24 20:21 G 46956061.23 46956061.35 46956061.46 0.0276 0.0173

Venus 123850-01-18 05:00 G 46956360.61 46956360.71 46956360.81 0.3639 0.2377

Moon 123851-11-17 17:43 G 46957029.12 46957029.24 46957029.36 0.2694 0.0249

Earth 123851-11-17 18:26 G 46957029.14 46957029.27 46957029.39 0.2688 0.0216 *

Jupiter 123854-01-18 05:00 G 46957821.57 46957821.71 46957821.86 0.0543 0.0034

Mars 123855-05-10 11:57 G 46958298.86 46958299.00 46958299.15 0.1585 0.0365

Venus 123855-08-04 04:45 G 46958384.56 46958384.70 46958384.83 0.3643 0.0423

Mars 123858-02-24 03:33 G 46959319.58 46959319.65 46959319.72 0.1953 0.1582

Jupiter 123860-02-29 05:00 G 46960054.55 46960054.71 46960054.87 0.0485 0.0064

Venus 123861-02-17 04:45 G 46960408.65 46960408.70 46960408.75 0.3647 0.3374

Saturn 123863-07-11 22:02 G 46961283.29 46961283.42 46961283.56 0.0283 0.0145

Saturn 123863-10-08 14:50 G 46961371.96 46961372.12 46961372.28 0.0283 0.0028

Saturn 123864-01-05 07:53 G 46961460.72 46961460.83 46961460.94 0.0283 0.0204

Pluto 123864-09-03 01:38 G 46961702.55 46961702.57 46961702.62 0.0085 0.0083

Mars 123864-09-29 18:12 G 46961729.18 46961729.26 46961729.33 0.1585 0.1353

Earth 123864-11-19 15:05 G 46961780.05 46961780.13 46961780.22 0.2686 0.1862

Moon 123864-11-19 15:48 G 46961780.07 46961780.16 46961780.24 0.2691 0.1904 *

Pluto 123864-11-30 03:05 G 46961790.55 46961790.63 46961790.72 0.0085 0.0065

Pluto 123865-02-26 04:17 G 46961878.58 46961878.68 46961878.80 0.0085 0.0048

Pluto 123865-05-25 05:43 G 46961966.62 46961966.74 46961966.87 0.0085 0.0031

Pluto 123865-08-21 07:09 G 46962054.67 46962054.80 46962054.93 0.0085 0.0014

Jupiter 123865-11-06 06:26 G 46962131.64 46962131.77 46962131.90 0.0544 0.0234

Pluto 123865-11-17 08:21 G 46962142.72 46962142.85 46962142.98 0.0085 0.0003

Pluto 123866-02-13 09:33 G 46962230.78 46962230.90 46962231.03 0.0085 0.0019

Pluto 123866-05-12 10:45 G 46962318.84 46962318.95 46962319.08 0.0085 0.0036

Pluto 123866-08-08 11:57 G 46962406.91 46962407.00 46962407.11 0.0085 0.0052

Pluto 123866-11-04 13:09 G 46962494.98 46962495.05 46962495.14 0.0084 0.0069

Jupiter 123871-12-18 06:41 G 46964364.62 46964364.78 46964364.93 0.0485 0.0094

Jupiter 123877-08-25 08:07 G 46966441.76 46966441.84 46966441.93 0.0544 0.0430

Jupiter 123877-11-23 00:55 G 46966531.44 46966531.54 46966531.64 0.0543 0.0376

Saturn 123878-02-15 17:00 G 46966616.09 46966616.21 46966616.33 0.0276 0.0177

Saturn 123878-05-15 07:24 G 46966704.66 46966704.81 46966704.96 0.0276 0.0024

Saturn 123878-08-11 21:33 G 46966793.27 46966793.40 46966793.54 0.0276 0.0128

Mars 123878-11-12 16:17 G 46966886.12 46966886.18 46966886.23 0.1950 0.1701

Neptune 123879-10-25 12:26 G 46967233.02 46967233.02 46967233.03 0.0089 0.0088

Neptune 123880-01-21 14:21 G 46967321.05 46967321.10 46967321.17 0.0089 0.0081

Neptune 123880-04-18 16:02 G 46967409.11 46967409.17 46967409.27 0.0089 0.0074

Earth 123880-05-22 07:24 G 46967442.69 46967442.81 46967442.94 0.2645 0.0854

Moon 123880-05-22 07:53 G 46967442.70 46967442.83 46967442.96 0.2638 0.0722 *

Neptune 123880-07-15 18:26 G 46967497.17 46967497.27 46967497.37 0.0089 0.0066

Neptune 123880-10-11 20:07 G 46967585.24 46967585.34 46967585.46 0.0089 0.0059

Neptune 123881-01-07 22:02 G 46967673.31 46967673.42 46967673.56 0.0088 0.0051

Neptune 123881-04-06 00:12 G 46967761.38 46967761.51 46967761.64 0.0088 0.0044

Neptune 123881-07-03 01:53 G 46967849.45 46967849.58 46967849.73 0.0088 0.0037

Neptune 123881-09-29 03:48 G 46967937.53 46967937.66 46967937.81 0.0088 0.0030

Neptune 123881-12-26 05:57 G 46968025.60 46968025.75 46968025.90 0.0088 0.0022

Neptune 123882-03-24 07:53 G 46968113.68 46968113.83 46968113.98 0.0088 0.0014

Neptune 123882-06-20 09:48 G 46968201.76 46968201.91 46968202.06 0.0088 0.0007

Neptune 123882-09-16 11:43 G 46968289.84 46968289.99 46968290.14 0.0088 0.0003

Neptune 123882-12-13 13:24 G 46968377.91 46968378.06 46968378.21 0.0088 0.0007

Venus 123882-12-14 04:17 G 46968378.60 46968378.68 46968378.77 0.3738 0.2326

Neptune 123883-03-11 15:19 G 46968465.99 46968466.14 46968466.29 0.0088 0.0014

Neptune 123883-06-07 17:00 G 46968554.07 46968554.21 46968554.36 0.0088 0.0022

Neptune 123883-09-03 18:55 G 46968642.15 46968642.29 46968642.43 0.0088 0.0029

Jupiter 123883-10-06 08:07 G 46968674.71 46968674.84 46968674.98 0.0484 0.0251

Neptune 123883-11-30 20:36 G 46968730.23 46968730.36 46968730.50 0.0088 0.0036

Jupiter 123884-01-04 00:26 G 46968764.43 46968764.52 46968764.62 0.0486 0.0389

Neptune 123884-02-26 22:31 G 46968818.31 46968818.44 46968818.57 0.0088 0.0043

Neptune 123884-05-25 00:12 G 46968906.40 46968906.51 46968906.64 0.0088 0.0050

Neptune 123884-08-21 02:07 G 46968994.48 46968994.59 46968994.71 0.0088 0.0057

Earth 123884-11-15 02:36 G 46969080.52 46969080.61 46969080.70 0.2690 0.1897

Moon 123884-11-15 02:50 G 46969080.54 46969080.62 46969080.71 0.2697 0.1862 *

Neptune 123884-11-17 03:48 G 46969082.57 46969082.66 46969082.77 0.0088 0.0064

Neptune 123885-02-13 05:29 G 46969170.65 46969170.73 46969170.83 0.0088 0.0071

Neptune 123885-05-12 07:24 G 46969258.75 46969258.81 46969258.88 0.0088 0.0077

Mars 123885-06-18 06:41 G 46969295.65 46969295.78 46969295.91 0.1586 0.0820

Neptune 123885-08-08 09:05 G 46969346.85 46969346.88 46969346.93 0.0088 0.0084

Uranus 123887-01-14 15:05 G 46969871.07 46969871.13 46969871.20 0.0137 0.0122

Uranus 123887-04-12 19:24 G 46969959.22 46969959.31 46969959.43 0.0137 0.0102

Uranus 123887-07-10 00:12 G 46970047.39 46970047.51 46970047.64 0.0137 0.0081

Uranus 123887-10-06 04:45 G 46970135.57 46970135.70 46970135.84 0.0137 0.0060

Uranus 123888-01-02 09:19 G 46970223.75 46970223.89 46970224.04 0.0137 0.0040

Uranus 123888-03-30 13:53 G 46970311.93 46970312.08 46970312.23 0.0137 0.0019

Mars 123888-04-03 22:02 G 46970316.30 46970316.42 46970316.54 0.1952 0.0173

Uranus 123888-06-26 18:26 G 46970400.11 46970400.27 46970400.42 0.0137 0.0004

Venus 123888-06-28 23:14 G 46970402.35 46970402.47 46970402.58 0.3734 0.0274

Uranus 123888-09-22 22:45 G 46970488.30 46970488.45 46970488.60 0.0137 0.0022

Uranus 123888-12-20 03:05 G 46970576.49 46970576.63 46970576.78 0.0137 0.0042

Uranus 123889-03-18 07:24 G 46970664.68 46970664.81 46970664.95 0.0138 0.0063

Uranus 123889-06-14 11:43 G 46970752.88 46970752.99 46970753.12 0.0138 0.0083

Uranus 123889-09-10 16:02 G 46970841.08 46970841.17 46970841.28 0.0138 0.0102

Jupiter 123889-09-11 02:50 G 46970841.48 46970841.62 46970841.75 0.0543 0.0186

Uranus 123889-12-07 20:21 G 46970929.29 46970929.35 46970929.42 0.0138 0.0122

Saturn 123892-11-27 21:19 G 46972015.29 46972015.39 46972015.50 0.0283 0.0207

Saturn 123893-02-24 14:07 G 46972103.93 46972104.09 46972104.24 0.0283 0.0037

Saturn 123893-05-24 06:55 G 46972192.66 46972192.79 46972192.93 0.0283 0.0139

Moon 123893-05-25 05:57 G 46972193.63 46972193.75 46972193.86 0.2644 0.1280

Earth 123893-05-25 06:55 G 46972193.68 46972193.79 46972193.90 0.2647 0.1525 *

Venus 123894-01-12 17:29 G 46972426.14 46972426.23 46972426.33 0.3730 0.1764

Mars 123894-11-08 12:26 G 46972725.87 46972726.02 46972726.17 0.1585 0.0201

Jupiter 123895-07-25 10:17 G 46972984.84 46972984.93 46972985.01 0.0484 0.0401

Jupiter 123895-10-23 02:07 G 46973074.45 46973074.59 46973074.73 0.0486 0.0231

Mars 123897-08-25 03:19 G 46973746.56 46973746.64 46973746.73 0.1953 0.1433

Earth 123897-11-17 23:43 G 46973831.36 46973831.49 46973831.61 0.2688 0.0242

Moon 123897-11-18 00:26 G 46973831.40 46973831.52 46973831.65 0.2688 0.0389 *

Venus 123899-07-29 11:43 G 46974449.98 46974449.99 46974450.00 0.3727 0.3680

Jupiter 123901-07-01 03:33 G 46975151.51 46975151.65 46975151.79 0.0543 0.0029

Mars 123904-03-31 18:26 G 46976156.17 46976156.27 46976156.37 0.1585 0.1198

Venus 123906-08-26 04:31 G 46977033.58 46977033.69 46977033.81 0.3640 0.1502

Saturn 123907-07-06 18:55 G 46977348.20 46977348.29 46977348.39 0.0277 0.0214

Jupiter 123907-08-12 03:19 G 46977384.49 46977384.64 46977384.80 0.0485 0.0071

Saturn 123907-10-03 09:33 G 46977436.75 46977436.90 46977437.05 0.0277 0.0058

Saturn 123907-12-30 23:57 G 46977525.36 46977525.50 46977525.64 0.0277 0.0095

Saturn 123908-03-28 13:53 G 46977614.02 46977614.08 46977614.15 0.0276 0.0244

Earth 123910-11-21 20:21 G 46978582.29 46978582.35 46978582.41 0.2686 0.2292

Moon 123910-11-21 20:36 G 46978582.30 46978582.36 46978582.42 0.2679 0.2313 *

Venus 123912-03-11 04:17 G 46979057.56 46979057.68 46979057.81 0.3644 0.1336

Jupiter 123913-04-19 04:31 G 46979461.56 46979461.69 46979461.82 0.0543 0.0237

Mars 123918-05-14 16:31 G 46981313.16 46981313.19 46981313.21 0.1950 0.1888

Jupiter 123919-05-31 04:45 G 46981694.54 46981694.70 46981694.85 0.0485 0.0096

Saturn 123922-04-18 00:41 G 46982747.44 46982747.53 46982747.62 0.0283 0.0230

Saturn 123922-07-15 17:14 G 46982836.07 46982836.22 46982836.37 0.0283 0.0060

Saturn 123922-10-12 10:02 G 46982924.78 46982924.92 46982925.07 0.0283 0.0115

Mars 123924-12-18 07:09 G 46983722.68 46983722.80 46983722.91 0.1586 0.0986

Jupiter 123925-02-05 05:29 G 46983771.65 46983771.73 46983771.82 0.0544 0.0448

Jupiter 123925-05-05 22:17 G 46983861.33 46983861.43 46983861.54 0.0543 0.0360

Moon 123926-05-24 11:57 G 46984244.87 46984245.00 46984245.13 0.2648 0.0498

Earth 123926-05-24 12:55 G 46984244.91 46984245.04 46984245.18 0.2645 0.0381 *

Mars 123927-10-04 22:02 G 46984743.30 46984743.42 46984743.54 0.1952 0.0337

Uranus 123927-11-01 13:53 G 46984771.02 46984771.08 46984771.14 0.0141 0.0129

Uranus 123928-01-28 18:55 G 46984859.20 46984859.29 46984859.41 0.0141 0.0107

Uranus 123928-04-26 00:26 G 46984947.40 46984947.52 46984947.66 0.0141 0.0084

Uranus 123928-07-23 05:57 G 46985035.61 46985035.75 46985035.90 0.0141 0.0061

Uranus 123928-10-19 11:29 G 46985123.83 46985123.98 46985124.14 0.0141 0.0037

Uranus 123929-01-15 17:00 G 46985212.05 46985212.21 46985212.37 0.0141 0.0014

Uranus 123929-04-13 22:31 G 46985300.28 46985300.44 46985300.61 0.0141 0.0010

Uranus 123929-07-11 04:02 G 46985388.52 46985388.67 46985388.83 0.0141 0.0034

Uranus 123929-10-07 09:48 G 46985476.76 46985476.91 46985477.06 0.0140 0.0057

Uranus 123930-01-03 15:19 G 46985565.01 46985565.14 46985565.28 0.0140 0.0082

Uranus 123930-04-01 21:05 G 46985653.28 46985653.38 46985653.49 0.0140 0.0105

Uranus 123930-06-29 02:50 G 46985741.56 46985741.62 46985741.68 0.0140 0.0130

Earth   123930-11-17 07:53 G 46985882.73 46985882.83 46985882.93 0.2690 0.1448

Moon   123930-11-17 08:36 G 46985882.75 46985882.86 46985882.96 0.2685 0.1289 *

Jupiter 123931-03-19 06:26 G 46986004.63 46986004.77 46986004.90 0.0484 0.0250

Jupiter 123931-06-16 22:31 G 46986094.35 46986094.44 46986094.54 0.0486 0.0390

Mars   123934-05-10 12:55 G 46987152.89 46987153.04 46987153.19 0.1585 0.0035

Saturn 123936-11-22 20:21 G 46988080.30 46988080.35 46988080.41 0.0276 0.0256

Saturn 123937-02-19 11:14 G 46988168.83 46988168.97 46988169.11 0.0276 0.0100

Jupiter 123937-02-22 00:26 G 46988171.39 46988171.52 46988171.66 0.0543 0.0173

Mars   123937-02-24 03:33 G 46988173.56 46988173.65 46988173.75 0.1953 0.1238

Saturn 123937-05-19 01:38 G 46988257.42 46988257.57 46988257.71 0.0276 0.0053

Saturn 123937-08-15 15:33 G 46988346.06 46988346.15 46988346.25 0.0276 0.0203

Moon   123939-05-27 12:41 G 46988995.94 46988996.03 46988996.11 0.2654 0.2025

Earth   123939-05-27 12:26 G 46988995.94 46988996.02 46988996.11 0.2647 0.2013 *

Venus   123939-07-22 02:50 G 46989051.51 46989051.62 46989051.72 0.3737 0.1640

Jupiter 123943-01-05 08:07 G 46990314.75 46990314.84 46990314.92 0.0484 0.0405

Jupiter 123943-04-04 23:57 G 46990404.35 46990404.50 46990404.64 0.0485 0.0225

Mars   123943-09-30 18:55 G 46990583.17 46990583.29 46990583.40 0.1585 0.1036

Moon   123943-11-20 04:17 G 46990633.56 46990633.68 46990633.80 0.2682 0.0513

Earth   123943-11-20 05:00 G 46990633.59 46990633.71 46990633.82 0.2688 0.0674 *

Venus   123945-02-03 21:19 G 46991075.28 46991075.39 46991075.50 0.3733 0.0431

Jupiter 123948-12-11 02:21 G 46992481.45 46992481.60 46992481.74 0.0544 0.0022

Venus   123950-08-20 15:48 G 46993099.07 46993099.16 46993099.24 0.3730 0.2395

Saturn 123951-12-02 16:31 G 46993568.05 46993568.19 46993568.33 0.0283 0.0122

Saturn 123952-02-29 09:19 G 46993656.73 46993656.89 46993657.05 0.0283 0.0050

Saturn 123952-05-28 02:21 G 46993745.51 46993745.60 46993745.70 0.0283 0.0227

Jupiter 123955-01-22 01:24 G 46994714.41 46994714.56 46994714.72 0.0485 0.0069

Moon 123956-11-22 00:55 G 46995384.52 46995384.54 46995384.56 0.2690 0.2639

Venus 123957-09-16 04:45 G 46995682.65 46995682.70 46995682.75 0.3637 0.3332

Moon 123959-05-22 19:09 G 46996296.23 46996296.30 46996296.38 0.2649 0.2197

Earth 123959-05-22 19:24 G 46996296.24 46996296.31 46996296.38 0.2643 0.2196 *

Jupiter 123960-09-29 03:05 G 46996791.50 46996791.63 46996791.76 0.0543 0.0234

Venus 123963-04-02 04:17 G 46997706.54 46997706.68 46997706.81 0.3641 0.0631

Neptune 123963-09-22 05:29 G 46997879.69 46997879.73 46997879.81 0.0089 0.0082

Neptune 123963-12-19 08:07 G 46997967.76 46997967.84 46997967.94 0.0089 0.0074

Neptune 123964-03-16 10:31 G 46998055.84 46998055.94 46998056.06 0.0089 0.0066

Neptune 123964-06-12 13:09 G 46998143.92 46998144.05 46998144.17 0.0089 0.0058

Mars 123964-06-18 07:24 G 46998149.70 46998149.81 46998149.91 0.1587 0.1145

Neptune 123964-09-08 15:33 G 46998232.01 46998232.15 46998232.28 0.0089 0.0050

Neptune 123964-12-05 17:43 G 46998320.10 46998320.24 46998320.39 0.0089 0.0043

Neptune 123965-03-03 20:07 G 46998408.20 46998408.34 46998408.50 0.0089 0.0035

Neptune 123965-05-30 22:45 G 46998496.30 46998496.45 46998496.61 0.0089 0.0026

Neptune 123965-08-27 01:09 G 46998584.39 46998584.55 46998584.72 0.0089 0.0019

Neptune 123965-11-23 03:48 G 46998672.49 46998672.66 46998672.83 0.0089 0.0010

Neptune 123966-02-19 06:12 G 46998760.60 46998760.76 46998760.93 0.0089 0.0003

Neptune 123966-05-18 08:50 G 46998848.70 46998848.87 46998849.04 0.0089 0.0006

Saturn 123966-07-09 12:55 G 46998900.91 46998901.04 46998901.18 0.0277 0.0139

Neptune 123966-08-14 11:14 G 46998936.81 46998936.97 46998937.14 0.0089 0.0014

Saturn 123966-10-06 03:33 G 46998989.50 46998989.65 46998989.80 0.0277 0.0016

Jupiter 123966-11-10 03:05 G 46999024.47 46999024.63 46999024.78 0.0485 0.0092

Neptune 123966-11-10 13:53 G 46999024.92 46999025.08 46999025.24 0.0089 0.0022

Saturn 123967-01-02 17:43 G 46999078.12 46999078.24 46999078.36 0.0277 0.0167

Neptune 123967-02-06 16:17 G 46999113.03 46999113.18 46999113.34 0.0089 0.0031

Mars 123967-04-04 22:17 G 46999170.31 46999170.43 46999170.55 0.1952 0.0517

Neptune 123967-05-05 18:41 G 46999201.14 46999201.28 46999201.44 0.0089 0.0039

Neptune 123967-08-01 21:19 G 46999289.26 46999289.39 46999289.54 0.0089 0.0047

Neptune 123967-10-28 23:43 G 46999377.37 46999377.49 46999377.64 0.0089 0.0056

Neptune 123968-01-25 02:21 G 46999465.50 46999465.60 46999465.73 0.0089 0.0064

Neptune 123968-04-22 05:00 G 46999553.62 46999553.71 46999553.82 0.0089 0.0072

Neptune 123968-07-19 07:24 G 46999641.76 46999641.81 46999641.90 0.0089 0.0081

Venus 123968-10-16 04:02 G 46999730.57 46999730.67 46999730.78 0.3645 0.2279

Uranus 123971-02-04 22:17 G 47000572.36 47000572.43 47000572.52 0.0137 0.0116

Uranus 123971-05-04 03:05 G 47000660.52 47000660.63 47000660.74 0.0137 0.0095

Uranus 123971-07-31 07:38 G 47000748.69 47000748.82 47000748.95 0.0137 0.0074

Uranus 123971-10-27 12:12 G 47000836.87 47000837.01 47000837.15 0.0137 0.0054

Uranus 123972-01-23 16:45 G 47000925.05 47000925.20 47000925.35 0.0137 0.0033

Uranus 123972-04-20 21:19 G 47001013.24 47001013.39 47001013.54 0.0137 0.0012

Earth 123972-05-24 18:41 G 47001047.14 47001047.28 47001047.41 0.2645 0.0123

Moon 123972-05-24 19:38 G 47001047.19 47001047.32 47001047.45 0.2649 0.0221 *

Uranus 123972-07-18 01:38 G 47001101.42 47001101.57 47001101.73 0.0137 0.0009

Jupiter 123972-07-18 03:48 G 47001101.58 47001101.66 47001101.75 0.0544 0.0447 *

Uranus 123972-10-14 06:12 G 47001189.61 47001189.76 47001189.91 0.0137 0.0028

Jupiter 123972-10-15 20:36 G 47001191.26 47001191.36 47001191.47 0.0542 0.0358

Uranus 123973-01-10 10:31 G 47001277.80 47001277.94 47001278.08 0.0137 0.0049

Uranus 123973-04-08 14:50 G 47001366.00 47001366.12 47001366.25 0.0138 0.0069

Uranus 123973-07-05 19:09 G 47001454.19 47001454.30 47001454.42 0.0138 0.0089

Uranus 123973-10-01 23:29 G 47001542.40 47001542.48 47001542.58 0.0138 0.0109

Mars 123973-11-08 13:09 G 47001579.90 47001580.05 47001580.20 0.1586 0.0130

Uranus 123973-12-29 03:33 G 47001630.61 47001630.65 47001630.72 0.0138 0.0129

Mars 123976-08-25 03:48 G 47002600.56 47002600.66 47002600.76 0.1953 0.1060

Moon 123976-11-17 12:12 G 47002684.90 47002685.01 47002685.12 0.2691 0.1078

Earth 123976-11-17 13:09 G 47002684.94 47002685.05 47002685.17 0.2690 0.0999 *

Jupiter 123978-08-29 04:31 G 47003334.55 47003334.69 47003334.82 0.0484 0.0253

Jupiter 123978-11-26 20:36 G 47003424.27 47003424.36 47003424.46 0.0486 0.0387

Saturn 123981-04-20 19:38 G 47004300.19 47004300.32 47004300.46 0.0283 0.0146

Saturn 123981-07-18 12:26 G 47004388.86 47004389.02 47004389.18 0.0283 0.0027

Saturn 123981-10-15 05:29 G 47004477.62 47004477.73 47004477.84 0.0283 0.0203

Mars 123983-03-31 19:09 G 47005010.18 47005010.30 47005010.43 0.1585 0.0877

Jupiter 123984-08-03 22:02 G 47005501.28 47005501.42 47005501.56 0.0543 0.0157

Earth 123985-05-27 17:57 G 47005798.22 47005798.25 47005798.29 0.2648 0.2511

Moon 123989-11-20 10:02 G 47007435.81 47007435.92 47007436.04 0.2694 0.1037

Earth 123989-11-20 10:17 G 47007435.82 47007435.93 47007436.04 0.2687 0.1109 *

Jupiter 123990-06-17 06:26 G 47007644.68 47007644.77 47007644.85 0.0484 0.0404

Venus 123990-08-12 06:12 G 47007700.70 47007700.76 47007700.82 0.3739 0.3085

Jupiter 123990-09-14 22:02 G 47007734.28 47007734.42 47007734.56 0.0485 0.0225

Saturn 123995-11-26 14:50 G 47009633.01 47009633.12 47009633.24 0.0276 0.0177

Saturn 123996-02-23 05:29 G 47009721.58 47009721.73 47009721.88 0.0276 0.0022

Venus 123996-02-26 00:55 G 47009724.44 47009724.54 47009724.65 0.3736 0.0966

Saturn 123996-05-21 19:38 G 47009810.19 47009810.32 47009810.46 0.0276 0.0130

Jupiter 123996-05-22 23:57 G 47009811.35 47009811.50 47009811.64 0.0544 0.0037

125TH MILLENNIUM CE

This is a list of transits of Mercury in the 125th millennium CE.

FROM	MAX-TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S

Venus 124001-09-10 19:24 G 47011748.21 47011748.31 47011748.42 0.3732 0.1078

Jupiter 124002-07-03 23:14 G 47012044.31 47012044.47 47012044.63 0.0485 0.0063

Mars 124003-12-18 07:53 G 47012576.75 47012576.83 47012576.91 0.1586 0.1318

Earth 124005-05-23 00:55 G 47013098.44 47013098.54 47013098.64 0.2643 0.1728

Moon 124005-05-23 01:53 G 47013098.47 47013098.58 47013098.69 0.2641 0.1485 *

Mars 124006-10-03 22:17 G 47013597.32 47013597.43 47013597.55 0.1952 0.0691

Venus 124007-03-27 13:53 G 47013772.02 47013772.08 47013772.14 0.3729 0.3025

Jupiter 124008-03-11 01:38 G 47014121.44 47014121.57 47014121.70 0.0544 0.0231

Saturn 124010-09-07 19:09 G 47015032.20 47015032.30 47015032.41 0.0283 0.0206

Saturn 124010-12-05 11:43 G 47015120.84 47015120.99 47015121.15 0.0283 0.0036

Saturn 124011-03-04 04:31 G 47015209.56 47015209.69 47015209.84 0.0283 0.0139

Uranus 124011-11-21 21:05 G 47015472.31 47015472.38 47015472.46 0.0141 0.0123

Uranus 124012-02-18 02:07 G 47015560.49 47015560.59 47015560.72 0.0141 0.0101

Uranus 124012-05-16 07:38 G 47015648.70 47015648.82 47015648.96 0.0141 0.0078

Uranus 124012-08-12 13:09 G 47015736.91 47015737.05 47015737.20 0.0141 0.0054

Uranus 124012-11-08 18:41 G 47015825.12 47015825.28 47015825.44 0.0141 0.0031

Uranus 124013-02-05 00:12 G 47015913.35 47015913.51 47015913.68 0.0141 0.0008

Uranus 124013-05-04 05:43 G 47016001.58 47016001.74 47016001.91 0.0141 0.0016

Mars 124013-05-09 13:38 G 47016006.92 47016007.07 47016007.22 0.1585 0.0287

Uranus 124013-07-31 11:14 G 47016089.82 47016089.97 47016090.13 0.0140 0.0040

Uranus 124013-10-27 17:00 G 47016178.06 47016178.21 47016178.36 0.0140 0.0064

Uranus 124014-01-23 22:45 G 47016266.32 47016266.45 47016266.57 0.0140 0.0088

Jupiter 124014-04-22 01:09 G 47016354.39 47016354.55 47016354.70 0.0485 0.0093

Uranus 124014-04-22 04:02 G 47016354.59 47016354.67 47016354.78 0.0140 0.0112 *

Venus 124014-04-23 04:17 G 47016355.59 47016355.68 47016355.78 0.3638 0.2477

Uranus 124014-07-19 09:48 G 47016442.89 47016442.91 47016442.96 0.0140 0.0136

Pluto 124015-01-28 17:57 G 47016636.19 47016636.25 47016636.36 0.0058 0.0052

Pluto 124015-04-26 19:24 G 47016724.20 47016724.31 47016724.45 0.0058 0.0044

Pluto 124015-07-23 20:50 G 47016812.23 47016812.37 47016812.53 0.0058 0.0037

Pluto 124015-10-19 22:02 G 47016900.26 47016900.42 47016900.61 0.0058 0.0029

Pluto 124016-01-15 23:29 G 47016988.31 47016988.48 47016988.67 0.0058 0.0021

Mars 124016-02-24 03:48 G 47017027.55 47017027.66 47017027.77 0.1953 0.0901

Pluto 124016-04-13 00:55 G 47017076.35 47017076.54 47017076.73 0.0059 0.0013

Pluto 124016-07-10 02:21 G 47017164.40 47017164.60 47017164.79 0.0059 0.0005

Pluto 124016-10-06 03:33 G 47017252.46 47017252.65 47017252.85 0.0059 0.0003

Pluto 124017-01-02 04:45 G 47017340.51 47017340.70 47017340.90 0.0059 0.0012

Pluto 124017-03-31 05:57 G 47017428.58 47017428.75 47017428.95 0.0059 0.0020

Pluto 124017-06-27 07:09 G 47017516.64 47017516.80 47017516.99 0.0059 0.0028

Pluto 124017-09-23 08:21 G 47017604.72 47017604.85 47017605.03 0.0059 0.0036

Pluto 124017-12-20 09:48 G 47017692.80 47017692.91 47017693.06 0.0059 0.0044

Pluto 124018-03-18 11:14 G 47017780.89 47017780.97 47017781.07 0.0059 0.0052

Moon 124018-05-25 23:43 G 47017849.36 47017849.49 47017849.63 0.2639 0.0466

Earth 124018-05-26 00:12 G 47017849.38 47017849.51 47017849.64 0.2646 0.0601 *

Venus 124019-11-07 03:48 G 47018379.53 47018379.66 47018379.79 0.3642 0.0306

Jupiter 124019-12-29 02:21 G 47018431.52 47018431.60 47018431.68 0.0544 0.0444

Jupiter 124020-03-27 19:09 G 47018521.20 47018521.30 47018521.40 0.0542 0.0361

Mars 124022-09-29 19:24 G 47019437.18 47019437.31 47019437.45 0.1585 0.0723

Earth 124022-11-18 18:26 G 47019487.15 47019487.27 47019487.39 0.2689 0.0557

Moon 124022-11-18 19:09 G 47019487.18 47019487.30 47019487.42 0.2694 0.0386 *

Saturn 124025-04-14 16:02 G 47020365.09 47020365.17 47020365.27 0.0277 0.0221

Venus 124025-05-23 04:02 G 47020403.61 47020403.67 47020403.72 0.3646 0.3246

Saturn 124025-07-12 06:55 G 47020453.64 47020453.79 47020453.94 0.0277 0.0064

Saturn 124025-10-08 21:19 G 47020542.25 47020542.39 47020542.53 0.0277 0.0089

Saturn 124026-01-05 11:14 G 47020630.90 47020630.97 47020631.05 0.0277 0.0239

Jupiter 124026-02-08 02:36 G 47020664.48 47020664.61 47020664.75 0.0485 0.0251

Jupiter 124026-05-08 18:55 G 47020754.20 47020754.29 47020754.39 0.0486 0.0390

Jupiter 124032-01-14 20:21 G 47022831.22 47022831.35 47022831.49 0.0543 0.0159

Earth 124035-11-21 15:19 G 47024238.04 47024238.14 47024238.24 0.2687 0.1536

Moon 124035-11-21 16:17 G 47024238.08 47024238.18 47024238.28 0.2683 0.1596 *

Jupiter 124037-11-27 04:17 G 47024974.60 47024974.68 47024974.77 0.0484 0.0407

Jupiter 124038-02-24 20:07 G 47025064.19 47025064.34 47025064.48 0.0485 0.0223

Saturn 124040-01-25 22:31 G 47025764.35 47025764.44 47025764.53 0.0283 0.0230

Saturn 124040-04-23 14:50 G 47025852.97 47025853.12 47025853.28 0.0283 0.0061

Saturn 124040-07-21 07:53 G 47025941.68 47025941.83 47025941.97 0.0283 0.0114

Mars 124043-06-18 08:07 G 47027003.79 47027003.84 47027003.90 0.1587 0.1482

Jupiter 124043-11-02 21:19 G 47027141.25 47027141.39 47027141.54 0.0544 0.0053

Neptune 124044-07-22 11:29 G 47027403.95 47027403.98 47027404.03 0.0089 0.0085

Neptune 124044-10-18 13:24 G 47027492.00 47027492.06 47027492.15 0.0089 0.0078

Neptune 124045-01-14 15:33 G 47027580.06 47027580.15 47027580.25 0.0089 0.0070

Neptune 124045-04-12 17:29 G 47027668.13 47027668.23 47027668.35 0.0089 0.0062

Neptune 124045-07-09 19:38 G 47027756.20 47027756.32 47027756.44 0.0089 0.0055

Neptune 124045-10-05 21:19 G 47027844.27 47027844.39 47027844.53 0.0088 0.0048

Neptune 124046-01-01 23:14 G 47027932.35 47027932.47 47027932.62 0.0088 0.0041

Neptune 124046-03-31 01:24 G 47028020.42 47028020.56 47028020.70 0.0088 0.0033

Mars 124046-04-03 22:31 G 47028024.33 47028024.44 47028024.55 0.1951 0.0856

Neptune 124046-06-27 03:19 G 47028108.50 47028108.64 47028108.79 0.0088 0.0025

Neptune 124046-09-23 05:14 G 47028196.57 47028196.72 47028196.87 0.0088 0.0018

Neptune 124046-12-20 07:09 G 47028284.65 47028284.80 47028284.95 0.0088 0.0011

Neptune 124047-03-18 09:05 G 47028372.73 47028372.88 47028373.03 0.0088 0.0004

Venus 124047-03-19 04:31 G 47028373.60 47028373.69 47028373.78 0.3738 0.2385

Neptune 124047-06-14 10:45 G 47028460.81 47028460.95 47028461.11 0.0088 0.0005

Neptune 124047-09-10 12:41 G 47028548.88 47028549.03 47028549.18 0.0088 0.0011

Neptune 124047-12-07 14:36 G 47028636.96 47028637.11 47028637.26 0.0088 0.0018

Neptune 124048-03-04 16:17 G 47028725.04 47028725.18 47028725.33 0.0088 0.0025

Neptune 124048-05-31 18:12 G 47028813.12 47028813.26 47028813.40 0.0088 0.0032

Neptune 124048-08-27 19:53 G 47028901.21 47028901.33 47028901.47 0.0088 0.0040

Neptune 124048-11-23 21:48 G 47028989.29 47028989.41 47028989.54 0.0088 0.0046

Neptune 124049-02-19 23:29 G 47029077.37 47029077.48 47029077.61 0.0088 0.0054

Neptune 124049-05-19 01:09 G 47029165.46 47029165.55 47029165.67 0.0088 0.0061

Neptune 124049-08-15 03:05 G 47029253.54 47029253.63 47029253.73 0.0088 0.0067

Neptune 124049-11-11 04:45 G 47029341.64 47029341.70 47029341.79 0.0088 0.0075

Jupiter 124049-12-13 21:33 G 47029374.24 47029374.40 47029374.56 0.0485 0.0063

Neptune 124050-02-07 06:26 G 47029429.73   47029429.77   47029429.84 0.0088 0.0082

Neptune 124050-05-06 08:36 G 47029517.85   47029517.86   47029517.87 0.0088 0.0088

Moon   124051-05-24 05:29 G 47029900.61   47029900.73   47029900.84 0.2642 0.1330

Earth   124051-05-24 06:26 G 47029900.66   47029900.77   47029900.89 0.2644 0.1253 *

Venus   124052-10-01 23:14 G 47030397.36   47030397.47   47030397.58 0.3735 0.0297

Mars   124052-11-07 14:07 G 47030433.94   47030434.09   47030434.23 0.1586 0.0456

Saturn   124054-09-01 18:26 G 47031097.22   47031097.27   47031097.33 0.0276 0.0255

Uranus   124054-11-29 00:55 G 47031185.51   47031185.54   47031185.59 0.0137 0.0131

Saturn   124054-11-29 09:05 G 47031185.74   47031185.88   47031186.03 0.0276 0.0100

Uranus   124055-02-25 05:29 G 47031273.65   47031273.73   47031273.83 0.0137 0.0110

Saturn   124055-02-25 23:43 G 47031274.34   47031274.49   47031274.63 0.0276 0.0054

Uranus   124055-05-24 10:17 G 47031361.82   47031361.93   47031362.05 0.0137 0.0089

Saturn   124055-05-25 13:38 G 47031362.98   47031363.07   47031363.17 0.0276 0.0203

Uranus   124055-08-20 14:50 G 47031449.99   47031450.12   47031450.26 0.0137 0.0068

Jupiter 124055-08-21 23:00 G 47031451.34   47031451.46   47031451.59 0.0544 0.0247

Mars   124055-08-25 04:02 G 47031454.55   47031454.67   47031454.78 0.1953 0.0717

Uranus   124055-11-16 19:24 G 47031538.17   47031538.31   47031538.46 0.0137 0.0048

Earth   124055-11-17 02:36 G 47031538.54   47031538.61   47031538.67 0.2691 0.2267

Moon   124055-11-17 03:33 G 47031538.57   47031538.65   47031538.72 0.2691 0.2120 *

Uranus   124056-02-12 23:57 G 47031626.36   47031626.50   47031626.65 0.0137 0.0027

Uranus   124056-05-11 04:31 G 47031714.54   47031714.69   47031714.84 0.0137 0.0007

Uranus   124056-08-07 09:05 G 47031802.73   47031802.88   47031803.03 0.0137 0.0014

Uranus   124056-11-03 13:24 G 47031890.92   47031891.06   47031891.21 0.0137 0.0035

Uranus   124057-01-30 17:57 G 47031979.11   47031979.25   47031979.39 0.0137 0.0055

Uranus   124057-04-28 22:02 G 47032067.31   47032067.42   47032067.56 0.0138 0.0076

Uranus   124057-07-26 02:36 G 47032155.51   47032155.61   47032155.72 0.0138 0.0095

Uranus   124057-10-22 06:55 G 47032243.71   47032243.79   47032243.87 0.0138 0.0115

Uranus   124058-01-18 11:00 G 47032331.94   47032331.96   47032332.00 0.0138 0.0135

Venus   124058-04-17 17:43 G 47032421.14   47032421.24   47032421.34 0.3731 0.1715

Jupiter 124061-10-01 23:00 G 47033684.30   47033684.46   47033684.62 0.0485 0.0097

Mars 124062-03-30 19:53 G 47033864.19 47033864.33 47033864.47 0.1585 0.0556

Venus 124063-11-01 11:57 G 47034444.98 47034445.00 47034445.02 0.3727 0.3646

Moon 124064-05-26 05:14 G 47034651.59 47034651.72 47034651.84 0.2651 0.0922

Earth 124064-05-26 05:43 G 47034651.62 47034651.74 47034651.86 0.2646 0.1091 *

Jupiter 124067-06-10 00:41 G 47035761.45 47035761.53 47035761.61 0.0544 0.0444

Jupiter 124067-09-07 17:29 G 47035851.13 47035851.23 47035851.34 0.0543 0.0365

Moon 124068-11-18 23:43 G 47036289.37 47036289.49 47036289.62 0.2682 0.0125

Earth 124068-11-18 23:43 G 47036289.37 47036289.49 47036289.62 0.2689 0.0135 *

Saturn 124069-09-10 14:07 G 47036584.96 47036585.09 47036585.24 0.0283 0.0123

Saturn 124069-12-08 06:55 G 47036673.64 47036673.79 47036673.95 0.0283 0.0050

Saturn 124070-03-06 23:57 G 47036762.41 47036762.50 47036762.60 0.0283 0.0226

Venus 124070-11-28 03:48 G 47037028.55 47037028.66 47037028.78 0.3639 0.1603

Mars 124071-08-21 01:53 G 47037294.56 47037294.58 47037294.61 0.1584 0.1549

Jupiter 124073-07-21 00:55 G 47037994.40 47037994.54 47037994.67 0.0484 0.0250

Jupiter 124073-10-18 17:00 G 47038084.12 47038084.21 47038084.31 0.0486 0.0389

Venus 124076-06-13 03:33 G 47039052.53 47039052.65 47039052.77 0.3643 0.1229

Jupiter 124079-06-26 18:55 G 47040161.16 47040161.29 47040161.43 0.0543 0.0164

Moon 124081-11-21 19:53 G 47041040.24 47041040.33 47041040.42 0.2686 0.1784

Earth 124081-11-21 20:36 G 47041040.28 47041040.36 47041040.45 0.2687 0.1970 *

Saturn 124084-04-17 10:17 G 47041917.80 47041917.93 47041918.06 0.0277 0.0145

Saturn 124084-07-15 00:55 G 47042006.39 47042006.54 47042006.69 0.0276 0.0012

Saturn 124084-10-11 15:05 G 47042095.01 47042095.13 47042095.25 0.0276 0.0161

Jupiter 124085-05-09 02:36 G 47042304.53 47042304.61 47042304.70 0.0485 0.0405

Jupiter 124085-08-06 18:26 G 47042394.12 47042394.27 47042394.41 0.0486 0.0225

Mars 124085-10-02 22:31 G 47042451.34 47042451.44 47042451.55 0.1952 0.1032

Jupiter 124091-04-14 20:07 G 47044471.20 47044471.34 47044471.48 0.0543 0.0043

Mars 124092-05-08 14:21 G 47044860.96 47044861.10 47044861.24 0.1586 0.0615

Mars 124095-02-23 04:17 G 47045881.56 47045881.68 47045881.80 0.1953 0.0526

Uranus 124095-09-14 22:45 G 47046085.44 47046085.45 47046085.47 0.0141 0.0140

Uranus 124095-12-12 03:48 G 47046173.59 47046173.66 47046173.76 0.0141 0.0118

Uranus 124096-03-09 09:19 G 47046261.78 47046261.89 47046262.02 0.0141 0.0095

Uranus 124096-06-05 14:50 G 47046349.99 47046350.12 47046350.26 0.0141 0.0072

Uranus 124096-09-01 20:07 G 47046438.20 47046438.34 47046438.50 0.0141 0.0049

Uranus 124096-11-29 01:38 G 47046526.42 47046526.57 47046526.74 0.0141 0.0026

Uranus 124097-02-25 07:24 G 47046614.64 47046614.81 47046614.97 0.0141 0.0004

Earth 124097-05-24 11:57 G 47046702.88 47046703.00 47046703.13 0.2644 0.0783

Uranus 124097-05-24 12:41 G 47046702.88 47046703.03 47046703.20 0.0140 0.0023 *

Moon 124097-05-24 12:26 G 47046702.89 47046703.02 47046703.14 0.2650 0.0703 *

Jupiter 124097-05-25 19:38 G 47046704.16 47046704.32 47046704.48 0.0485 0.0062

Uranus 124097-08-20 18:26 G 47046791.11 47046791.27 47046791.42 0.0140 0.0046

Uranus 124097-11-16 23:57 G 47046879.36 47046879.50 47046879.65 0.0140 0.0070

Uranus 124098-02-13 05:29 G 47046967.62 47046967.73 47046967.86 0.0140 0.0094

Uranus 124098-05-12 11:14 G 47047055.89 47047055.97 47047056.06 0.0140 0.0118

Saturn 124099-01-28 17:00 G 47047317.08 47047317.21 47047317.35 0.0283 0.0150

Saturn 124099-04-27 09:48 G 47047405.75 47047405.91 47047406.07 0.0283 0.0022

Saturn 124099-07-25 02:36 G 47047494.50 47047494.61 47047494.73 0.0283 0.0198

Mars 124101-09-29 20:21 G 47048291.20 47048291.35 47048291.49 0.1585 0.0395

Moon 124101-11-18 07:09 G 47048340.71 47048340.80 47048340.88 0.2687 0.1913

Earth 124101-11-18 07:53 G 47048340.74 47048340.83 47048340.92 0.2691 0.1809 *

Jupiter 124103-02-01 20:50 G 47048781.24 47048781.37 47048781.50 0.0544 0.0259

Jupiter 124103-05-02 13:09 G 47048871.04 47048871.05 47048871.07 0.0543 0.0538

Venus 124103-10-25 02:50 G 47049046.52 47049046.62 47049046.72 0.3737 0.1704

Jupiter 124109-03-14 21:19 G 47051014.24 47051014.39 47051014.55 0.0485 0.0094

Venus 124109-05-09 21:33 G 47051070.28 47051070.40 47051070.51 0.3734 0.0382

Earth 124110-05-28 11:14 G 47051453.86 47051453.97 47051454.08 0.2646 0.1572

Moon 124110-05-28 12:26 G 47051453.92 47051454.02 47051454.12 0.2645 0.1704 *

Mars 124111-02-20 02:21 G 47051721.53 47051721.60 47051721.67 0.1584 0.1384

Pluto 124113-03-26 08:36 G 47052486.84 47052486.86 47052486.91 0.0086 0.0082

Pluto 124113-06-22 10:02 G 47052574.84 47052574.92 47052575.01 0.0085 0.0064

Saturn 124113-09-05 12:41 G 47052649.92 47052650.03 47052650.15 0.0276 0.0179

Pluto 124113-09-18 11:14 G 47052662.87 47052662.97 47052663.09 0.0085 0.0048

Saturn 124113-12-03 03:19 G 47052738.49 47052738.64 47052738.79 0.0276 0.0025

Pluto 124113-12-15 12:41 G 47052750.91 47052751.03 47052751.16 0.0085 0.0031

Saturn 124114-03-01 17:29 G 47052827.10 47052827.23 47052827.37 0.0276 0.0127

Pluto 124114-03-13 13:53 G 47052838.96 47052839.08 47052839.22 0.0085 0.0015

Saturn 124114-05-29 07:24 G 47052915.81 47052915.81 47052915.83 0.0276 0.0275

Pluto 124114-06-09 15:19 G 47052927.01 47052927.14 47052927.27 0.0085 0.0003

Pluto 124114-09-05 16:31 G 47053015.06 47053015.19 47053015.32 0.0085 0.0020

Jupiter 124114-11-20 22:17 G 47053091.35 47053091.43 47053091.50 0.0545 0.0460

Moon 124114-11-21 04:17 G 47053091.56 47053091.68 47053091.81 0.2693 0.0205

Earth 124114-11-21 05:00 G 47053091.59 47053091.71 47053091.83 0.2689 0.0329 *

Venus 124114-11-23 16:02 G 47053094.08 47053094.17 47053094.25 0.3730 0.2365

Pluto 124114-12-02 17:43 G 47053103.13 47053103.24 47053103.37 0.0085 0.0036

Jupiter 124115-02-18 15:19 G 47053181.03 47053181.14 47053181.24 0.0543 0.0351

Pluto 124115-02-28 18:55 G 47053191.20 47053191.29 47053191.40 0.0085 0.0053

Pluto 124115-05-27 20:21 G 47053279.28 47053279.35 47053279.43 0.0084 0.0069

Jupiter 124120-12-31 23:00 G 47055324.32 47055324.46 47055324.59 0.0484 0.0252

Jupiter 124121-03-31 15:05 G 47055414.03 47055414.13 47055414.23 0.0485 0.0386

Venus 124121-12-20 04:17 G 47055677.64 47055677.68 47055677.72 0.3636 0.3408

Mars 124125-04-03 22:45 G 47056878.36 47056878.45 47056878.55 0.1951 0.1209

Jupiter 124126-12-07 17:14 G 47057491.09 47057491.22 47057491.36 0.0544 0.0165

Venus 124127-07-06 03:33 G 47057701.52 47057701.65 47057701.78 0.3640 0.0704

Earth 124127-11-24 01:53 G 47057842.53 47057842.58 47057842.63 0.2686 0.2387

Moon 124127-11-24 02:07 G 47057842.55 47057842.59 47057842.64 0.2693 0.2483 *

Neptune 124128-03-23 02:36 G 47057962.57 47057962.61 47057962.66 0.0089 0.0085

Saturn 124128-06-17 16:31 G 47058049.09 47058049.19 47058049.30 0.0283 0.0210

Neptune 124128-06-19 05:00 G 47058050.64 47058050.71 47058050.79 0.0089 0.0077

Saturn 124128-09-14 09:05 G 47058137.72 47058137.88 47058138.04 0.0283 0.0040

Neptune 124128-09-15 07:09 G 47058138.71 47058138.80 47058138.91 0.0089 0.0070

Saturn 124128-12-12 01:53 G 47058226.44 47058226.58 47058226.72 0.0283 0.0134

Neptune 124128-12-12 09:33 G 47058226.79 47058226.90 47058227.03 0.0089 0.0062

Neptune 124129-03-10 11:57 G 47058314.88 47058315.00 47058315.14 0.0089 0.0054

Neptune 124129-06-06 14:21 G 47058402.97 47058403.10 47058403.25 0.0089 0.0046

Neptune 124129-09-02 17:00 G 47058491.06 47058491.21 47058491.36 0.0089 0.0038

Neptune 124129-11-29 19:24 G 47058579.16 47058579.31 47058579.47 0.0089 0.0030

Neptune 124130-02-25 21:48 G 47058667.26 47058667.41 47058667.58 0.0089 0.0022

Earth 124130-05-23 18:26 G 47058754.25 47058754.27 47058754.30 0.2642 0.2588

Moon 124130-05-23 19:38 G 47058754.27 47058754.32 47058754.37 0.2644 0.2405 *

Neptune 124130-05-25 00:26 G 47058755.36 47058755.52 47058755.68 0.0089 0.0014

Neptune 124130-08-21 02:50 G 47058843.46 47058843.62 47058843.79 0.0089 0.0006

Neptune 124130-11-17 05:29 G 47058931.56 47058931.73 47058931.89 0.0089 0.0003

Neptune 124131-02-13 07:53 G 47059019.66 47059019.83 47059020.00 0.0089 0.0010

Neptune 124131-05-12 10:17 G 47059107.77 47059107.93 47059108.10 0.0089 0.0019

Neptune 124131-08-08 12:41 G 47059195.88 47059196.03 47059196.20 0.0089 0.0027

Neptune 124131-11-04 15:19 G 47059283.99 47059284.14 47059284.30 0.0089 0.0035

Mars 124131-11-08 14:50 G 47059287.98 47059288.12 47059288.25 0.1586 0.0780

Neptune 124132-01-31 17:57 G 47059372.11 47059372.25 47059372.40 0.0089 0.0043

Neptune 124132-04-28 20:21 G 47059460.22 47059460.35 47059460.50 0.0089 0.0052

Neptune 124132-07-25 22:45 G 47059548.34 47059548.45 47059548.59 0.0089 0.0060

Jupiter 124132-10-20 00:55 G 47059634.46 47059634.54 47059634.63 0.0484 0.0402

Neptune 124132-10-22 01:38 G 47059636.47 47059636.57 47059636.68 0.0089 0.0068

Jupiter 124133-01-17 16:31 G 47059724.05 47059724.19 47059724.34 0.0485 0.0227

Neptune 124133-01-18 04:02 G 47059724.60 47059724.67 47059724.77 0.0089 0.0077

Venus 124133-01-19 03:19 G 47059725.53 47059725.64 47059725.75 0.3644 0.2175

Neptune 124133-04-16 06:41 G 47059812.74 47059812.78 47059812.84 0.0089 0.0085

Mars 124134-08-25 04:17 G 47060308.55 47060308.68 47060308.80 0.1953 0.0379

Jupiter 124138-09-25 18:41 G 47061801.14 47061801.28 47061801.43 0.0543 0.0040

Uranus 124138-12-20 08:07 G 47061886.79 47061886.84 47061886.91 0.0137 0.0125

Uranus 124139-03-18 12:55 G 47061974.94 47061975.04 47061975.14 0.0137 0.0104

Uranus 124139-06-14 17:29 G 47062063.11 47062063.23 47062063.36 0.0137 0.0083

Uranus 124139-09-10 22:02 G 47062151.29 47062151.42 47062151.56 0.0137 0.0063

Uranus 124139-12-08 02:50 G 47062239.47 47062239.62 47062239.76 0.0137 0.0042

Uranus 124140-03-05 07:09 G 47062327.66 47062327.80 47062327.96 0.0137 0.0021

Uranus 124140-06-01 11:43 G 47062415.84 47062415.99 47062416.14 0.0137 0.0003

Uranus 124140-08-28 16:17 G 47062504.03 47062504.18 47062504.33 0.0137 0.0020

Uranus 124140-11-24 20:36 G 47062592.22 47062592.36 47062592.51 0.0137 0.0041

Uranus 124141-02-21 01:09 G 47062680.41 47062680.55 47062680.68 0.0138 0.0061

Mars 124141-03-30 20:36 G 47062718.21 47062718.36 47062718.51 0.1585 0.0238

Uranus 124141-05-20 05:29 G 47062768.61 47062768.73 47062768.85 0.0138 0.0081

Uranus 124141-08-16 09:48 G 47062856.81 47062856.91 47062857.01 0.0138 0.0101

Uranus 124141-11-12 13:53 G 47062945.02 47062945.08 47062945.16 0.0138 0.0121

Saturn 124143-01-23 13:09 G 47063381.97 47063382.05 47063382.14 0.0276 0.0230

Saturn 124143-04-22 04:02 G 47063470.52 47063470.67 47063470.81 0.0276 0.0074

Earth 124143-05-26 17:29 G 47063505.10 47063505.23 47063505.37 0.2644 0.0312

Moon 124143-05-26 17:57 G 47063505.12 47063505.25 47063505.39 0.2638 0.0248 *

Saturn 124143-07-19 18:26 G 47063559.12 47063559.27 47063559.41 0.0276 0.0079

Saturn 124143-10-16 08:36 G 47063647.78 47063647.86 47063647.94 0.0276 0.0229

Jupiter 124144-11-05 17:57 G 47064034.09 47064034.25 47064034.41 0.0485 0.0065

Moon 124147-11-19 13:09 G 47065142.95 47065143.05 47065143.16 0.2697 0.1303

Earth 124147-11-19 13:09 G 47065142.95 47065143.05 47065143.16 0.2691 0.1366 *

Jupiter 124150-07-14 19:38 G 47066111.20 47066111.32 47066111.45 0.0544 0.0247

Mars 124150-08-21 02:36 G 47066148.52 47066148.61 47066148.71 0.1585 0.1230

Venus 124154-11-15 06:12 G 47067695.70 47067695.76 47067695.82 0.3740 0.3149

Moon 124156-05-28 16:02 G 47068256.08 47068256.17 47068256.26 0.2643 0.1927

Earth 124156-05-28 17:00 G 47068256.12 47068256.21 47068256.29 0.2646 0.2066 *

Jupiter 124156-08-24 19:38 G 47068344.16 47068344.32 47068344.47 0.0485 0.0094

Saturn 124157-11-04 18:55 G 47068781.21 47068781.29 47068781.37 0.0283 0.0243

Saturn 124158-02-01 11:29 G 47068869.82 47068869.98 47068870.13 0.0283 0.0074

Saturn 124158-05-01 04:02 G 47068958.53 47068958.67 47068958.83 0.0283 0.0100

Saturn 124158-07-28 21:19 G 47069047.36 47069047.39 47069047.42 0.0283 0.0277

Venus 124160-05-31 01:09 G 47069719.44 47069719.55 47069719.66 0.3736 0.1018

Earth 124160-11-21 10:17 G 47069893.81 47069893.93 47069894.05 0.2688 0.0764

Moon 124160-11-21 11:14 G 47069893.86 47069893.97 47069894.09 0.2690 0.0843 *

Jupiter 124162-05-02 20:07 G 47070421.27 47070421.34 47070421.41 0.0544 0.0469

Jupiter 124162-07-31 13:09 G 47070510.94 47070511.05 47070511.16 0.0543 0.0343

Mars 124164-10-02 22:45 G 47071305.37 47071305.45 47071305.54 0.1951 0.1372

Venus 124165-12-14 19:38 G 47071743.22 47071743.32 47071743.43 0.3733 0.1043

Jupiter 124168-06-12 21:33 G 47072654.26 47072654.40 47072654.53 0.0484 0.0246

Jupiter 124168-09-10 13:38 G 47072743.97 47072744.07 47072744.16 0.0485 0.0392

Mars 124171-05-09 15:05 G 47073715.01 47073715.13 47073715.26 0.1586 0.0950

Venus 124171-06-30 14:07 G 47073767.03 47073767.09 47073767.15 0.3729 0.2999

Saturn 124172-06-11 15:48 G 47074114.12 47074114.16 47074114.21 0.0276 0.0261

Saturn 124172-09-08 06:26 G 47074202.64 47074202.77 47074202.92 0.0276 0.0106

Saturn 124172-12-05 21:05 G 47074291.23 47074291.38 47074291.53 0.0276 0.0047

Saturn 124173-03-04 11:14 G 47074379.87 47074379.97 47074380.07 0.0275 0.0197

Mars 124174-02-23 04:31 G 47074735.57 47074735.69 47074735.81 0.1953 0.0179

Jupiter 124174-05-19 15:05 G 47074820.99 47074821.13 47074821.26 0.0544 0.0152

Moon 124176-05-23 23:29 G 47075556.40 47075556.48 47075556.56 0.2637 0.2147

Earth 124176-05-23 23:57 G 47075556.43 47075556.50 47075556.58 0.2642 0.2121 *

Venus 124178-07-27 03:48 G 47076350.56 47076350.66 47076350.75 0.3637 0.2554

Uranus 124179-10-06 05:57 G 47076786.71 47076786.75 47076786.80 0.0141 0.0134

Uranus 124180-01-02 11:00 G 47076874.88 47076874.96 47076875.07 0.0141 0.0112

Uranus 124180-03-30 16:31 G 47076963.07 47076963.19 47076963.32 0.0141 0.0089

Jupiter 124180-03-31 23:14 G 47076964.38 47076964.47 47076964.56 0.0484 0.0401

Uranus 124180-06-26 22:02 G 47077051.28 47077051.42 47077051.56 0.0141 0.0066

Jupiter 124180-06-29 14:36 G 47077053.97 47077054.11 47077054.26 0.0485 0.0227

Uranus 124180-09-23 03:19 G 47077139.49 47077139.64 47077139.80 0.0141 0.0043

Mars 124180-09-28 21:05 G 47077145.23 47077145.38 47077145.53 0.1585 0.0079

Uranus 124180-12-20 08:50 G 47077227.72 47077227.87 47077228.04 0.0141 0.0020

Uranus 124181-03-18 14:21 G 47077315.94 47077316.10 47077316.27 0.0141 0.0006

Uranus 124181-06-14 19:53 G 47077404.18 47077404.33 47077404.50 0.0140 0.0028

Uranus 124181-09-11 01:38 G 47077492.42 47077492.57 47077492.72 0.0140 0.0052

Uranus 124181-12-08 07:09 G 47077580.66 47077580.80 47077580.94 0.0140 0.0076

Uranus 124182-03-06 12:55 G 47077668.92 47077669.04 47077669.15 0.0140 0.0100

Uranus 124182-06-02 18:12 G 47077757.20 47077757.26 47077757.35 0.0140 0.0124

Mars 124183-07-16 09:48 G 47078165.86 47078165.91 47078165.95 0.1953 0.1803

Venus 124184-02-10 03:05 G 47078374.50 47078374.63 47078374.76 0.3641 0.0206

Jupiter 124186-03-07 17:00 G 47079131.07 47079131.21 47079131.35 0.0544 0.0039

Saturn 124187-06-21 10:45 G 47079601.82 47079601.95 47079602.09 0.0283 0.0135

Saturn 124187-09-18 03:33 G 47079690.49 47079690.65 47079690.80 0.0283 0.0038

Saturn 124187-12-15 20:21 G 47079779.25 47079779.35 47079779.46 0.0283 0.0213

Moon 124189-05-26 22:02 G 47080307.29 47080307.42 47080307.55 0.2645 0.0061

Earth 124189-05-26 23:00 G 47080307.33 47080307.46 47080307.60 0.2644 0.0182 *

Venus 124189-08-26 03:05 G 47080398.56 47080398.63 47080398.70 0.3645 0.3128

Mars 124190-02-19 03:05 G 47080575.52 47080575.63 47080575.74 0.1584 0.1072

Jupiter 124192-04-17 16:31 G 47081364.03 47081364.19 47081364.35 0.0485 0.0070

Earth 124193-11-19 18:26 G 47081945.16 47081945.27 47081945.39 0.2691 0.0921

Moon 124193-11-19 19:09 G 47081945.18 47081945.30 47081945.42 0.2685 0.0722 *

Jupiter 124197-12-24 18:26 G 47083441.14 47083441.27 47083441.40 0.0544 0.0240

Saturn 124202-01-27 06:41 G 47084934.66 47084934.78 47084934.91 0.0276 0.0160

Saturn 124202-04-25 21:19 G 47085023.24 47085023.39 47085023.55 0.0276 0.0009

Earth 124202-05-30 22:31 G 47085058.40 47085058.44 47085058.47 0.2647 0.2552

Moon 124202-05-30 22:17 G 47085058.42 47085058.43 47085058.45 0.2654 0.2622 *

Saturn 124202-07-23 11:43 G 47085111.86 47085111.99 47085112.12 0.0276 0.0146

Jupiter 124204-02-05 17:57 G 47085674.10 47085674.25 47085674.41 0.0485 0.0089

Mars 124204-04-03 23:00 G 47085732.39 47085732.46 47085732.53 0.1951 0.1560

Moon 124206-11-23 15:05 G 47086696.01 47086696.13 47086696.24 0.2683 0.1028

Earth 124206-11-23 15:33 G 47086696.04 47086696.15 47086696.26 0.2688 0.1196 *

Neptune 124209-01-22 08:50 G 47087486.87 47087486.87 47087486.89 0.0089 0.0088

Neptune 124209-04-20 11:00 G 47087574.90 47087574.96 47087575.02 0.0089 0.0081

Neptune 124209-07-17 12:41 G 47087662.96 47087663.03 47087663.13 0.0089 0.0074

Neptune 124209-10-13 14:50 G 47087751.03 47087751.12 47087751.23 0.0089 0.0066

Jupiter 124209-10-13 19:24 G 47087751.23 47087751.31 47087751.39 0.0544 0.0450 *

Neptune 124210-01-09 16:45 G 47087839.10 47087839.20 47087839.33 0.0088 0.0059

Jupiter 124210-01-11 12:12 G 47087840.91 47087841.01 47087841.12 0.0543 0.0359

Neptune 124210-04-07 18:55 G 47087927.17 47087927.29 47087927.42 0.0088 0.0051

Neptune 124210-07-04 20:50 G 47088015.24 47088015.37 47088015.51 0.0088 0.0043

Neptune 124210-09-30 22:45 G 47088103.32 47088103.45 47088103.60 0.0088 0.0036

Mars 124210-11-08 15:33 G 47088142.04 47088142.15 47088142.26 0.1586 0.1111

Neptune 124210-12-28 00:41 G 47088191.39 47088191.53 47088191.68 0.0088 0.0029

Neptune 124211-03-26 02:36 G 47088279.47 47088279.61 47088279.76 0.0088 0.0022

Neptune 124211-06-22 04:31 G 47088367.55 47088367.69 47088367.85 0.0088 0.0014

Venus 124211-06-23 04:31 G 47088368.61 47088368.69 47088368.78 0.3739 0.2451

Neptune 124211-09-18 06:26 G 47088455.63 47088455.77 47088455.93 0.0088 0.0007

Neptune 124211-12-15 08:21 G 47088543.70 47088543.85 47088544.01 0.0088 0.0003

Neptune 124212-03-12 10:17 G 47088631.78 47088631.93 47088632.08 0.0088 0.0008

Neptune 124212-06-08 12:12 G 47088719.86 47088720.01 47088720.16 0.0088 0.0015

Neptune 124212-09-04 13:53 G 47088807.94 47088808.08 47088808.23 0.0088 0.0022

Neptune 124212-12-01 15:48 G 47088896.02 47088896.16 47088896.31 0.0088 0.0029

Neptune 124213-02-27 17:29 G 47088984.11 47088984.23 47088984.38 0.0088 0.0037

Neptune 124213-05-26 19:24 G 47089072.19 47089072.31 47089072.45 0.0088 0.0044

Neptune 124213-08-22 21:19 G 47089160.27 47089160.39 47089160.51 0.0088 0.0050

Mars 124213-08-25 04:31 G 47089162.57 47089162.69 47089162.82 0.1952 0.0059

Neptune 124213-11-18 23:00 G 47089248.36 47089248.46 47089248.58 0.0088 0.0058

Neptune 124214-02-15 00:55 G 47089336.44 47089336.54 47089336.64 0.0088 0.0064

Neptune 124214-05-14 02:36 G 47089424.53 47089424.61 47089424.70 0.0088 0.0072

Neptune 124214-08-10 04:17 G 47089512.63 47089512.68 47089512.76 0.0088 0.0079

Neptune 124214-11-06 05:57 G 47089600.73 47089600.75 47089600.80 0.0088 0.0086

Jupiter 124215-11-24 19:53 G 47089984.19 47089984.33 47089984.47 0.0484 0.0243

Jupiter 124216-02-22 11:43 G 47090073.91 47090073.99 47090074.09 0.0486 0.0396

Saturn 124216-11-08 12:41 G 47090333.91 47090334.03 47090334.15 0.0283 0.0173

Venus 124217-01-05 23:29 G 47090392.36 47090392.48 47090392.59 0.3735 0.0353

Saturn 124217-02-05 05:14 G 47090422.56 47090422.72 47090422.88 0.0283 0.0002

Saturn 124217-05-04 22:17 G 47090511.30 47090511.43 47090511.55 0.0283 0.0173

Mars 124220-03-30 21:19 G 47091572.24 47091572.39 47091572.55 0.1585 0.0100

Jupiter 124221-10-30 13:09 G 47092150.91 47092151.05 47092151.18 0.0544 0.0147

Moon 124222-05-26 05:00 G 47092358.61 47092358.71 47092358.81 0.2648 0.1654

Earth 124222-05-26 05:29 G 47092358.63 47092358.73 47092358.84 0.2642 0.1653 *

Venus 124222-07-22 17:57 G 47092416.15 47092416.25 47092416.35 0.3732 0.1685

Uranus 124223-01-10 15:33 G 47092588.08 47092588.15 47092588.22 0.0137 0.0119

Mars 124223-01-15 10:02 G 47092592.85 47092592.92 47092592.98 0.1953 0.1615

Uranus 124223-04-08 20:07 G 47092676.24 47092676.34 47092676.45 0.0137 0.0098

Uranus 124223-07-06 00:41 G 47092764.41 47092764.53 47092764.66 0.0137 0.0078

Uranus 124223-10-02 05:29 G 47092852.59 47092852.73 47092852.87 0.0137 0.0057

Uranus 124223-12-29 09:48 G 47092940.77 47092940.91 47092941.06 0.0137 0.0036

Uranus 124224-03-26 14:21 G 47093028.95 47093029.10 47093029.26 0.0137 0.0016

Uranus 124224-06-22 18:55 G 47093117.14 47093117.29 47093117.44 0.0137 0.0005

Uranus 124224-09-18 23:29 G 47093205.33 47093205.48 47093205.63 0.0137 0.0026

Uranus 124224-12-16 03:48 G 47093293.52 47093293.66 47093293.80 0.0138 0.0046

Uranus 124225-03-14 08:07 G 47093381.71 47093381.84 47093381.98 0.0138 0.0066

Uranus 124225-06-10 12:26 G 47093469.91 47093470.02 47093470.14 0.0138 0.0087

Uranus 124225-09-06 16:45 G 47093558.11 47093558.20 47093558.30 0.0138 0.0106

Uranus 124225-12-03 21:05 G 47093646.33 47093646.38 47093646.45 0.0138 0.0126

Earth 124226-11-19 02:36 G 47093996.59 47093996.61 47093996.63 0.2693 0.2639

Jupiter 124227-09-12 22:02 G 47094294.33 47094294.42 47094294.51 0.0484 0.0392

Jupiter 124227-12-11 13:24 G 47094383.92 47094384.06 47094384.20 0.0485 0.0236

Venus 124228-02-05 12:12 G 47094439.99 47094440.01 47094440.03 0.3728 0.3628

Mars 124229-08-21 03:33 G 47095002.53 47095002.65 47095002.77 0.1585 0.0906

Saturn 124231-06-16 09:19 G 47095666.79 47095666.89 47095667.01 0.0276 0.0191

Saturn 124231-09-13 00:12 G 47095755.36 47095755.51 47095755.66 0.0275 0.0037

Saturn 124231-12-10 14:21 G 47095843.97 47095844.10 47095844.24 0.0275 0.0115

Saturn 124232-03-08 04:17 G 47095932.65 47095932.68 47095932.73 0.0275 0.0263

Jupiter 124233-08-18 14:50 G 47096460.97 47096461.12 47096461.26 0.0544 0.0052

Venus 124235-03-04 03:05 G 47097023.52 47097023.63 47097023.75 0.3638 0.1699

Earth 124235-05-29 04:31 G 47097109.56 47097109.69 47097109.82 0.2645 0.0656

Moon 124235-05-29 05:29 G 47097109.61 47097109.73 47097109.86 0.2649 0.0722 *

Jupiter 124239-09-29 14:50 G 47098693.96 47098694.12 47098694.28 0.0485 0.0073

Moon 124239-11-21 23:00 G 47098747.34 47098747.46 47098747.58 0.2690 0.0571

Earth 124239-11-21 23:57 G 47098747.37 47098747.50 47098747.62 0.2690 0.0474 *

Venus 124240-09-17 02:50 G 47099047.49 47099047.62 47099047.74 0.3642 0.1122

Mars 124243-10-03 23:00 G 47100159.41 47100159.46 47100159.52 0.1951 0.1723

Jupiter 124245-06-06 16:31 G 47100771.07 47100771.19 47100771.32 0.0544 0.0243

Saturn 124246-03-28 12:12 G 47101065.93 47101066.01 47101066.10 0.0283 0.0232

Saturn 124246-06-25 04:31 G 47101154.54 47101154.69 47101154.85 0.0283 0.0064

Saturn 124246-09-21 21:19 G 47101243.25 47101243.39 47101243.54 0.0283 0.0110

Mars 124250-05-09 15:48 G 47102569.07 47102569.16 47102569.25 0.1586 0.1273

Jupiter 124251-07-18 16:45 G 47103004.04 47103004.20 47103004.35 0.0484 0.0082

Moon 124252-11-23 20:36 G 47103498.26 47103498.36 47103498.45 0.2694 0.1543

Earth 124252-11-23 20:50 G 47103498.27 47103498.37 47103498.47 0.2688 0.1631 *

Mars 124253-02-23 04:45 G 47103589.57 47103589.70 47103589.82 0.1953 0.0170

Jupiter 124257-03-25 17:57 G 47105081.17 47105081.25 47105081.34 0.0544 0.0443

Jupiter 124257-06-23 11:00 G 47105170.86 47105170.96 47105171.07 0.0543 0.0368

Mars 124259-09-29 21:48 G 47105999.26 47105999.41 47105999.56 0.1585 0.0252

Saturn 124260-11-02 09:19 G 47106398.83 47106398.89 47106398.96 0.0276 0.0248

Saturn 124261-01-30 00:12 G 47106487.37 47106487.51 47106487.65 0.0276 0.0093

Saturn 124261-04-28 14:36 G 47106575.96 47106576.11 47106576.26 0.0276 0.0060

Saturn 124261-07-26 04:45 G 47106664.61 47106664.70 47106664.80 0.0276 0.0210

Mars 124262-07-16 10:17 G 47107019.84 47107019.93 47107020.01 0.1953 0.1425

Jupiter 124263-05-06 18:26 G 47107314.13 47107314.27 47107314.40 0.0485 0.0238

Pluto 124263-05-24 22:17 G 47107332.41 47107332.43 47107332.51 0.0058 0.0057

Jupiter 124263-08-04 10:17 G 47107403.85 47107403.93 47107404.02 0.0486 0.0401

Pluto 124263-08-20 23:43 G 47107420.40 47107420.49 47107420.62 0.0058 0.0049

Uranus 124263-10-27 12:55 G 47107487.99 47107488.04 47107488.11 0.0141 0.0129

Pluto 124263-11-17 01:09 G 47107508.43 47107508.55 47107508.71 0.0058 0.0041

Uranus 124264-01-23 18:12 G 47107576.17 47107576.26 47107576.37 0.0141 0.0106

Pluto 124264-02-13 02:36 G 47107596.46 47107596.61 47107596.78 0.0058 0.0033

Uranus 124264-04-20 23:43 G 47107664.36 47107664.49 47107664.62 0.0141 0.0083

Pluto 124264-05-11 03:48 G 47107684.50 47107684.66 47107684.85 0.0058 0.0025

Uranus 124264-07-18 05:00 G 47107752.57 47107752.71 47107752.86 0.0141 0.0060

Pluto 124264-08-07 05:14 G 47107772.54 47107772.72 47107772.91 0.0058 0.0017

Uranus 124264-10-14 10:31 G 47107840.79 47107840.94 47107841.10 0.0141 0.0037

Pluto 124264-11-03 06:41 G 47107860.59 47107860.78 47107860.97 0.0059 0.0009

Uranus 124265-01-10 16:02 G 47107929.01 47107929.17 47107929.33 0.0141 0.0013

Pluto 124265-01-30 07:53 G 47107948.64 47107948.83 47107949.03 0.0059 0.0002

Uranus 124265-04-08 21:33 G 47108017.23 47108017.40 47108017.56 0.0141 0.0010

Pluto 124265-04-28 09:05 G 47108036.70 47108036.88 47108037.09 0.0059 0.0008

Uranus 124265-07-06 03:05 G 47108105.47 47108105.63 47108105.79 0.0140 0.0034

Pluto 124265-07-25 10:17 G 47108124.76 47108124.93 47108125.13 0.0059 0.0016

Uranus 124265-10-02 08:21 G 47108193.71 47108193.85 47108194.01 0.0140 0.0058

Pluto 124265-10-21 11:57 G 47108212.82 47108213.00 47108213.18 0.0059 0.0023

Uranus 124265-12-29 13:53 G 47108281.96 47108282.08 47108282.23 0.0140 0.0082

Pluto 124266-01-17 12:41 G 47108300.89 47108301.03 47108301.22 0.0059 0.0032

Uranus 124266-03-27 19:38 G 47108370.22 47108370.32 47108370.44 0.0140 0.0105

Pluto 124266-04-15 14:07 G 47108388.97 47108389.09 47108389.26 0.0059 0.0040

Uranus 124266-06-24 01:24 G 47108458.50 47108458.56 47108458.63 0.0140 0.0129

Pluto 124266-07-12 15:19 G 47108477.05 47108477.14 47108477.28 0.0059 0.0048

Pluto 124266-10-08 16:45 G 47108565.16 47108565.20 47108565.28 0.0059 0.0056

Venus 124268-01-28 03:05 G 47109041.53 47109041.63 47109041.73 0.3738 0.1758

Earth 124268-05-26 11:00 G 47109160.85 47109160.96 47109161.08 0.2643 0.1184

Moon 124268-05-26 12:12 G 47109160.88 47109161.01 47109161.13 0.2640 0.0951 *

Mars 124269-02-19 03:48 G 47109429.53 47109429.66 47109429.79 0.1585 0.0747

Jupiter 124269-04-11 12:26 G 47109480.89 47109481.02 47109481.16 0.0543 0.0168

Moon 124272-11-19 07:24 G 47110798.74 47110798.81 47110798.87 0.2697 0.2276

Earth 124272-11-19 07:53 G 47110798.76 47110798.83 47110798.90 0.2692 0.2179 *

Venus 124273-08-12 21:48 G 47111065.29 47111065.41 47111065.52 0.3735 0.0357

Jupiter 124275-02-22 20:21 G 47111624.26 47111624.35 47111624.45 0.0484 0.0387

Jupiter 124275-05-23 11:57 G 47111713.86 47111714.00 47111714.14 0.0485 0.0241

Saturn 124275-08-15 13:24 G 47111798.03 47111798.06 47111798.09 0.0283 0.0276

Saturn 124275-11-12 05:43 G 47111886.60 47111886.74 47111886.89 0.0283 0.0108

Saturn 124276-02-08 22:31 G 47111975.28 47111975.44 47111975.59 0.0283 0.0065

Saturn 124276-05-07 15:19 G 47112064.07 47112064.14 47112064.23 0.0283 0.0242

Venus 124279-02-26 16:17 G 47113089.09 47113089.18 47113089.26 0.3731 0.2338

Jupiter 124281-01-28 12:55 G 47113790.90 47113791.04 47113791.19 0.0544 0.0051

Moon 124281-05-29 10:02 G 47113911.79 47113911.92 47113912.04 0.2639 0.1047

Earth 124281-05-29 10:02 G 47113911.80 47113911.92 47113912.05 0.2645 0.1141 *

Mars 124283-04-03 23:14 G 47114586.44 47114586.47 47114586.49 0.1951 0.1896

Earth 124285-11-22 05:00 G 47115549.59 47115549.71 47115549.84 0.2690 0.0100

Moon 124285-11-22 05:43 G 47115549.61 47115549.74 47115549.86 0.2696 0.0075 *

Venus 124286-03-25 03:33 G 47115672.62 47115672.65 47115672.68 0.3636 0.3496

Jupiter 124287-03-11 13:38 G 47116023.92 47116024.07 47116024.23 0.0485 0.0086

Mars 124289-11-07 16:17 G 47116996.13 47116996.18 47116996.24 0.1586 0.1448

Saturn 124290-06-19 02:50 G 47117219.49 47117219.62 47117219.76 0.0275 0.0123

Saturn 124290-09-15 17:29 G 47117308.08 47117308.23 47117308.38 0.0275 0.0031

Saturn 124290-12-13 07:38 G 47117396.71 47117396.82 47117396.93 0.0275 0.0180

Venus 124291-10-09 02:50 G 47117696.49 47117696.62 47117696.74 0.3639 0.0809

Mars 124292-08-24 04:45 G 47118016.58 47118016.70 47118016.83 0.1952 0.0354

Neptune 124292-09-21 23:29 G 47118045.47 47118045.48 47118045.50 0.0089 0.0088

Jupiter 124292-11-16 14:21 G 47118100.97 47118101.10 47118101.23 0.0544 0.0252

Neptune 124292-12-19 01:38 G 47118133.52 47118133.57 47118133.65 0.0089 0.0081

Neptune 124293-03-17 04:02 G 47118221.59 47118221.67 47118221.77 0.0089 0.0073

Neptune 124293-06-13 06:26 G 47118309.67   47118309.77   47118309.89 0.0089 0.0065

Neptune 124293-09-09 09:05 G 47118397.76   47118397.88   47118398.00 0.0089 0.0057

Neptune 124293-12-06 11:29 G 47118485.84   47118485.98   47118486.12 0.0089 0.0049

Neptune 124294-03-04 13:38 G 47118573.93   47118574.07   47118574.22 0.0089 0.0042

Neptune 124294-05-31 16:02 G 47118662.03   47118662.17   47118662.33 0.0089 0.0034

Neptune 124294-08-27 18:26 G 47118750.12   47118750.27   47118750.44 0.0089 0.0026

Neptune 124294-11-23 21:05 G 47118838.22   47118838.38   47118838.54 0.0089 0.0018

Neptune 124295-02-19 23:29 G 47118926.32   47118926.48   47118926.65 0.0089 0.0010

Neptune 124295-05-19 02:07 G 47119014.42   47119014.59   47119014.75 0.0089 0.0002

Neptune 124295-08-15 04:31 G 47119102.52   47119102.69   47119102.86 0.0089 0.0007

Neptune 124295-11-11 06:55 G 47119190.63   47119190.79   47119190.96 0.0089 0.0015

Neptune 124296-02-07 09:19 G 47119278.74   47119278.89   47119279.06 0.0089 0.0023

Neptune 124296-05-05 11:57 G 47119366.85   47119367.00   47119367.16 0.0089 0.0031

Neptune 124296-08-01 14:36 G 47119454.96   47119455.11   47119455.26 0.0089 0.0039

Neptune 124296-10-28 16:45 G 47119543.07   47119543.20   47119543.36 0.0089 0.0048

Neptune 124297-01-24 19:24 G 47119631.19   47119631.31   47119631.45 0.0089 0.0056

Neptune 124297-04-22 22:02 G 47119719.31   47119719.42   47119719.54 0.0089 0.0064

Venus   124297-04-24 02:21 G 47119720.49   47119720.60   47119720.71 0.3643 0.2045

Neptune 124297-07-20 00:26 G 47119807.44   47119807.52   47119807.63 0.0089 0.0073

Neptune 124297-10-16 03:05 G 47119895.58   47119895.63   47119895.71 0.0089 0.0081

Earth   124298-11-25 02:07 G 47120300.51   47120300.59   47120300.66 0.2688 0.2059

Moon   124298-11-25 02:50 G 47120300.55   47120300.62   47120300.69 0.2684 0.2173 *

Jupiter 124298-12-28 15:05 G 47120333.98   47120334.13   47120334.29 0.0484 0.0076

Mars   124299-03-30 22:17 G 47120426.28   47120426.43   47120426.57 0.1585 0.0421

Mars   124302-01-15 10:17 G 47121446.83   47121446.93   47121447.02 0.1953 0.1256

Jupiter 124304-09-05 16:02 G 47122411.09   47122411.17   47122411.26 0.0545 0.0447

Jupiter 124304-12-04 09:19 G 47122500.79   47122500.89   47122500.99 0.0543 0.0367

Saturn   124305-04-01 05:29 G 47122618.60   47122618.73   47122618.86 0.0283 0.0166

Saturn   124305-06-28 22:02 G 47122707.26   47122707.42   47122707.58 0.0283 0.0005

Saturn   124305-09-25 14:50 G 47122796.00   47122796.12   47122796.24 0.0283 0.0179

Uranus 124306-11-04 17:43 G 47123201.23 47123201.24 47123201.27 0.0137 0.0135

Uranus 124307-01-31 22:31 G 47123289.36 47123289.44 47123289.53 0.0137 0.0114

Uranus 124307-04-30 03:05 G 47123377.53 47123377.63 47123377.75 0.0137 0.0093

Uranus 124307-07-27 07:53 G 47123465.70 47123465.83 47123465.96 0.0137 0.0072

Uranus 124307-10-23 12:26 G 47123553.88 47123554.02 47123554.17 0.0137 0.0051

Uranus 124308-01-19 17:00 G 47123642.06 47123642.21 47123642.36 0.0137 0.0031

Uranus 124308-04-16 21:33 G 47123730.25 47123730.40 47123730.55 0.0137 0.0010

Uranus 124308-07-14 02:07 G 47123818.44 47123818.59 47123818.74 0.0137 0.0011

Mars 124308-08-21 04:02 G 47123856.54 47123856.67 47123856.81 0.1585 0.0594

Uranus 124308-10-10 06:26 G 47123906.63 47123906.77 47123906.92 0.0138 0.0031

Uranus 124309-01-06 10:45 G 47123994.82 47123994.95 47123995.10 0.0138 0.0052

Uranus 124309-04-04 15:05 G 47124083.01 47124083.13 47124083.27 0.0138 0.0072

Uranus 124309-07-01 19:24 G 47124171.21 47124171.31 47124171.43 0.0138 0.0092

Uranus 124309-09-27 23:43 G 47124259.42 47124259.49 47124259.59 0.0138 0.0112

Uranus 124309-12-25 04:17 G 47124347.64 47124347.68 47124347.73 0.0138 0.0131

Jupiter 124310-10-17 17:14 G 47124644.08 47124644.22 47124644.36 0.0484 0.0227

Jupiter 124311-01-15 09:05 G 47124733.80 47124733.88 47124733.97 0.0485 0.0410

Moon 124314-05-28 15:33 G 47125963.03 47125963.15 47125963.28 0.2640 0.0836

Earth 124314-05-28 16:31 G 47125963.06 47125963.19 47125963.32 0.2643 0.0710 *

Jupiter 124316-09-22 11:14 G 47126810.84 47126810.97 47126811.11 0.0543 0.0177

Mars 124318-01-11 10:31 G 47127286.92 47127286.94 47127286.95 0.1584 0.1573

Earth 124318-11-21 13:09 G 47127600.96 47127601.05 47127601.15 0.2692 0.1736

Moon 124318-11-21 14:07 G 47127600.99 47127601.09 47127601.20 0.2691 0.1512 *

Venus 124319-02-19 06:26 G 47127690.71 47127690.77 47127690.82 0.3741 0.3210

Saturn 124319-11-07 02:36 G 47127951.49 47127951.61 47127951.72 0.0276 0.0183

Saturn 124320-02-03 17:14 G 47128040.07 47128040.22 47128040.37 0.0276 0.0029

Saturn 124320-05-02 07:24 G 47128128.68 47128128.81 47128128.95 0.0276 0.0123

Saturn 124320-07-29 21:19 G 47128217.37 47128217.39 47128217.42 0.0276 0.0271

Jupiter 124322-08-05 18:55 G 47128954.20 47128954.29 47128954.39 0.0484 0.0381

Jupiter 124322-11-03 10:31 G 47129043.80 47129043.94 47129044.08 0.0485 0.0248

Venus 124324-09-04 01:09 G 47129714.44 47129714.55 47129714.66 0.3737 0.1083

Moon 124327-05-31 15:05 G 47130714.02 47130714.13 47130714.24 0.2651 0.1497

Earth 124327-05-31 15:48 G 47130714.05 47130714.16 47130714.26 0.2645 0.1627 *

Jupiter 124328-07-11 12:41 G 47131120.88 47131121.03 47131121.17 0.0544 0.0025

Venus 124330-03-20 19:53 G 47131738.22 47131738.33 47131738.44 0.3734 0.0993

Moon 124331-11-24 10:31 G 47132351.81 47132351.94 47132352.06 0.2683 0.0386

Earth 124331-11-24 10:31 G 47132351.81 47132351.94 47132352.06 0.2690 0.0428 *

Mars 124332-02-24 05:14 G 47132443.60 47132443.72 47132443.83 0.1952 0.0539

Saturn 124334-08-19 06:12 G 47133350.66 47133350.76 47133350.86 0.0283 0.0216

Jupiter 124334-08-22 12:12 G 47133353.86 47133354.01 47133354.17 0.0485 0.0094

Saturn 124334-11-15 22:31 G 47133439.29 47133439.44 47133439.60 0.0283 0.0047

Saturn 124335-02-12 15:19 G 47133528.00 47133528.14 47133528.29 0.0283 0.0127

Venus 124335-10-04 14:21 G 47133762.03 47133762.10 47133762.16 0.3730 0.2961

Mars 124338-09-29 22:31 G 47134853.30 47134853.44 47134853.58 0.1585 0.0584

Jupiter 124340-04-29 12:55 G 47135430.91 47135431.04 47135431.17 0.0544 0.0249

Mars 124341-07-16 10:17 G 47135873.83 47135873.93 47135874.04 0.1953 0.1084

Venus 124342-10-31 03:05 G 47136345.54 47136345.63 47136345.71 0.3637 0.2649

Moon 124344-11-26 06:26 G 47137102.72 47137102.77 47137102.82 0.2685 0.2396

Earth 124344-11-26 07:24 G 47137102.76 47137102.81 47137102.85 0.2687 0.2494 *

Jupiter 124346-06-10 14:21 G 47137663.94 47137664.10 47137664.25 0.0484 0.0061

Moon 124347-05-26 22:17 G 47138014.41 47138014.43 47138014.45 0.2644 0.2597

Earth 124347-05-26 23:14 G 47138014.43 47138014.47 47138014.51 0.2641 0.2494 *

Uranus 124347-11-17 20:07 G 47138189.27 47138189.34 47138189.42 0.0141 0.0123

Uranus 124348-02-14 01:38 G 47138277.46 47138277.57 47138277.68 0.0141 0.0100

Mars 124348-02-20 04:31 G 47138283.55 47138283.69 47138283.84 0.1585 0.0426

Uranus 124348-05-12 06:41 G 47138365.66 47138365.78 47138365.92 0.0141 0.0078

Venus 124348-05-16 02:21 G 47138369.47 47138369.60 47138369.73 0.3640 0.0095

Uranus 124348-08-08 11:57 G 47138453.86 47138454.00 47138454.16 0.0141 0.0055

Uranus 124348-11-04 17:29 G 47138542.08 47138542.23 47138542.39 0.0141 0.0032

Uranus 124349-01-31 23:00 G 47138630.30 47138630.46 47138630.62 0.0141 0.0008

Saturn 124349-03-26 05:00 G 47138683.62 47138683.71 47138683.81 0.0276 0.0214

Uranus 124349-04-30 04:31 G 47138718.53 47138718.69 47138718.85 0.0141 0.0016

Saturn 124349-06-22 19:53 G 47138772.18 47138772.33 47138772.48 0.0275 0.0059

Uranus 124349-07-27 10:02 G 47138806.76 47138806.92 47138807.08 0.0140 0.0039

Saturn 124349-09-19 10:17 G 47138860.79 47138860.93 47138861.07 0.0275 0.0093

Uranus 124349-10-23 15:33 G 47138895.01 47138895.15 47138895.30 0.0140 0.0063

Saturn 124349-12-17 00:26 G 47138949.45 47138949.52 47138949.59 0.0275 0.0241

Uranus 124350-01-19 20:50 G 47138983.26 47138983.37 47138983.51 0.0140 0.0088

Uranus 124350-04-18 02:36 G 47139071.52 47139071.61 47139071.72 0.0140 0.0111

Uranus 124350-07-15 08:07 G 47139159.82 47139159.84 47139159.90 0.0140 0.0136

Jupiter 124352-02-16 14:07 G 47139741.01 47139741.09 47139741.17 0.0545 0.0454

Jupiter 124352-05-16 07:24 G 47139830.70 47139830.81 47139830.91 0.0543 0.0361

Venus 124353-11-30 02:07 G 47140393.52 47140393.59 47140393.67 0.3644 0.3000

Mars 124357-07-12 10:45 G 47141713.89 47141713.95 47141714.02 0.1584 0.1414

Jupiter 124358-03-29 15:48 G 47141974.02 47141974.16 47141974.31 0.0484 0.0219

Jupiter 124358-06-27 07:38 G 47142063.75 47142063.82 47142063.91 0.0485 0.0419

Earth 124360-05-28 22:02 G 47142765.29 47142765.42 47142765.55 0.2643 0.0242

Moon 124360-05-28 22:31 G 47142765.31 47142765.44 47142765.57 0.2650 0.0214 *

Pluto 124361-10-16 16:17 G 47143271.13 47143271.18 47143271.26 0.0085 0.0075

Pluto 124362-01-12 17:43 G 47143359.15 47143359.24 47143359.35 0.0085 0.0057

Pluto 124362-04-10 19:09 G 47143447.19 47143447.30 47143447.42 0.0085 0.0040

Pluto 124362-07-07 20:36 G 47143535.23 47143535.36 47143535.48 0.0085 0.0023

Pluto 124362-10-03 21:48 G 47143623.28 47143623.41 47143623.54 0.0085 0.0007

Pluto 124362-12-30 23:00 G 47143711.33 47143711.46 47143711.60 0.0085 0.0010

Pluto 124363-03-29 00:12 G 47143799.39 47143799.51 47143799.64 0.0085 0.0027

Pluto 124363-06-25 01:38 G 47143887.46 47143887.57 47143887.68 0.0085 0.0043

Pluto 124363-09-21 02:36 G 47143975.53 47143975.61 47143975.71 0.0085 0.0060

Pluto 124363-12-18 03:48 G 47144063.62 47144063.66 47144063.73 0.0084 0.0076

Saturn 124364-01-06 05:57 G 47144082.72 47144082.75 47144082.80 0.0283 0.0272

Jupiter 124364-03-04 09:33 G 47144140.76 47144140.90 47144141.03 0.0544 0.0175

Saturn 124364-04-03 22:17 G 47144171.29 47144171.43 47144171.58 0.0283 0.0104

Saturn 124364-07-01 15:05 G 47144259.97 47144260.13 47144260.28 0.0283 0.0068

Saturn 124364-09-28 07:53 G 47144348.76 47144348.83 47144348.91 0.0283 0.0244

Moon 124364-11-21 17:43 G 47144403.13 47144403.24 47144403.35 0.2688 0.1334

Earth 124364-11-21 18:26 G 47144403.17 47144403.27 47144403.38 0.2692 0.1282 *

Jupiter 124370-01-15 17:57 G 47146284.15 47146284.25 47146284.35 0.0484 0.0368

Jupiter 124370-04-15 09:33 G 47146373.76 47146373.90 47146374.03 0.0485 0.0260

Mars 124371-08-25 05:00 G 47146870.60 47146870.71 47146870.83 0.1952 0.0689

Earth 124373-05-31 21:19 G 47147516.31 47147516.39 47147516.47 0.2646 0.2107

Moon 124373-05-31 22:17 G 47147516.37 47147516.43 47147516.50 0.2644 0.2293 *

Neptune 124373-10-20 08:07 G 47147657.81 47147657.84 47147657.90 0.0089 0.0085

Neptune 124374-01-16 10:17 G 47147745.86 47147745.93 47147746.01 0.0089 0.0077

Neptune 124374-04-14 12:12 G 47147833.93 47147834.01 47147834.11 0.0089 0.0069

Neptune 124374-07-11 14:21 G 47147921.99 47147922.10 47147922.21 0.0089 0.0062

Neptune 124374-10-07 16:02 G 47148010.07 47148010.17 47148010.31 0.0088 0.0055

Neptune 124375-01-03 18:26 G 47148098.14 47148098.27 47148098.40 0.0088 0.0047

Neptune 124375-04-01 20:07 G 47148186.21 47148186.34 47148186.49 0.0088 0.0040

Neptune 124375-06-28 22:02 G 47148274.29 47148274.42 47148274.57 0.0088 0.0033

Neptune 124375-09-25 00:12 G 47148362.36 47148362.51 47148362.66 0.0088 0.0025

Venus 124375-09-26 04:45 G 47148363.61 47148363.70 47148363.78 0.3740 0.2523

Neptune 124375-12-22 02:07 G 47148450.44 47148450.59 47148450.74 0.0088 0.0017

Jupiter 124375-12-22 11:29 G 47148450.83 47148450.98 47148451.12 0.0544 0.0020

Neptune 124376-03-19 04:02 G 47148538.52 47148538.67 47148538.82 0.0088 0.0010

Neptune 124376-06-15 05:57 G 47148626.60 47148626.75 47148626.90 0.0088 0.0003

Neptune 124376-09-11 07:53 G 47148714.68 47148714.83 47148714.98 0.0088 0.0005

Neptune 124376-12-08 09:48 G 47148802.76 47148802.91 47148803.06 0.0088 0.0012

Neptune 124377-03-06 11:29 G 47148890.84 47148890.98 47148891.13 0.0088 0.0019

Neptune 124377-06-02 13:24 G 47148978.92 47148979.06 47148979.21 0.0088 0.0026

Neptune 124377-08-29 15:05 G 47149067.00 47149067.13 47149067.28 0.0088 0.0034

Moon 124377-11-24 14:50 G 47149154.00 47149154.12 47149154.24 0.2693 0.0661

Earth 124377-11-24 15:33 G 47149154.04 47149154.15 47149154.27 0.2689 0.0860 *

Neptune 124377-11-25 17:00 G 47149155.09 47149155.21 47149155.35 0.0088 0.0041

Neptune 124378-02-21 18:55 G 47149243.17 47149243.29 47149243.42 0.0088 0.0047

Mars 124378-03-30 23:00 G 47149280.32 47149280.46 47149280.59 0.1586 0.0745

Neptune 124378-05-20 20:36 G 47149331.26 47149331.36 47149331.49 0.0088 0.0055

Neptune 124378-08-16 22:31 G 47149419.34 47149419.44 47149419.55 0.0088 0.0062

Saturn 124378-11-09 19:24 G 47149504.18 47149504.31 47149504.45 0.0276 0.0120

Neptune 124378-11-13 00:26 G 47149507.43 47149507.52 47149507.62 0.0088 0.0068

Saturn 124379-02-06 10:02 G 47149592.77 47149592.92 47149593.07 0.0276 0.0033

Neptune 124379-02-09 02:07 G 47149595.52 47149595.59 47149595.67 0.0088 0.0076

Saturn 124379-05-06 00:12 G 47149681.40 47149681.51 47149681.62 0.0275 0.0183

Neptune 124379-05-08 03:48 G 47149683.62 47149683.66 47149683.72 0.0088 0.0083

Mars 124381-01-14 10:45 G 47150300.84 47150300.95 47150301.06 0.1953 0.0880

Venus 124381-04-10 23:29 G 47150387.37 47150387.48 47150387.59 0.3736 0.0402

Jupiter 124382-02-01 11:00 G 47150683.80 47150683.96 47150684.11 0.0485 0.0100

Venus 124386-10-25 18:12 G 47152411.16 47152411.26 47152411.36 0.3732 0.1644

Mars 124387-08-21 05:00 G 47152710.56 47152710.71 47152710.86 0.1585 0.0264

Jupiter 124387-10-10 12:41 G 47152760.90 47152761.03 47152761.16 0.0544 0.0220

Uranus 124390-11-25 01:09 G 47153902.50 47153902.55 47153902.60 0.0137 0.0129

Uranus 124391-02-21 05:43 G 47153990.65 47153990.74 47153990.84 0.0137 0.0108

Uranus 124391-05-20 10:31 G 47154078.82 47154078.94 47154079.06 0.0137 0.0087

Uranus 124391-08-16 15:05 G 47154167.00 47154167.13 47154167.27 0.0137 0.0067

Uranus 124391-11-12 19:38 G 47154255.18 47154255.32 47154255.47 0.0137 0.0046

Uranus 124392-02-09 00:12 G 47154343.36 47154343.51 47154343.66 0.0137 0.0025

Uranus 124392-05-07 04:45 G 47154431.55 47154431.70 47154431.85 0.0137 0.0005

Venus 124392-05-10 12:26 G 47154434.99 47154435.02 47154435.05 0.3729 0.3595

Uranus 124392-08-03 09:05 G 47154519.73 47154519.88 47154520.04 0.0137 0.0017

Uranus 124392-10-30 13:38 G 47154607.93 47154608.07 47154608.22 0.0138 0.0036

Uranus 124393-01-26 17:57 G 47154696.12 47154696.25 47154696.39 0.0138 0.0057

Uranus 124393-04-24 22:31 G 47154784.32 47154784.44 47154784.56 0.0138 0.0077

Earth 124393-05-27 04:45 G 47154816.62 47154816.70 47154816.78 0.2641 0.2040

Moon 124393-05-27 05:43 G 47154816.65 47154816.74 47154816.84 0.2642 0.1797 *

Uranus 124393-07-22 02:50 G 47154872.52 47154872.62 47154872.73 0.0138 0.0097

Saturn 124393-08-21 22:31 G 47154903.31 47154903.44 47154903.57 0.0283 0.0159

Uranus 124393-10-18 06:55 G 47154960.72 47154960.79 47154960.88 0.0138 0.0117

Saturn 124393-11-18 15:05 G 47154991.97 47154992.13 47154992.29 0.0283 0.0012

Jupiter 124393-11-20 12:55 G 47154993.88 47154994.04 47154994.20 0.0485 0.0052

Uranus 124394-01-14 11:14 G 47155048.97 47155048.97 47155049.00 0.0138 0.0137

Saturn 124394-02-15 07:53 G 47155080.71 47155080.83 47155080.95 0.0283 0.0187

Mars 124397-01-10 11:14 G 47156140.88 47156140.97 47156141.06 0.1584 0.1249

Venus 124399-06-07 02:36 G 47157018.49 47157018.61 47157018.72 0.3638 0.1773

Jupiter 124399-07-29 12:41 G 47157070.95 47157071.03 47157071.11 0.0545 0.0449

Jupiter 124399-10-27 05:57 G 47157160.64 47157160.75 47157160.85 0.0543 0.0366

Venus 124404-12-21 02:07 G 47159042.46 47159042.59 47159042.71 0.3641 0.1020

Jupiter 124405-09-08 15:05 G 47159303.98 47159304.13 47159304.27 0.0484 0.0203

Jupiter 124405-12-07 06:55 G 47159393.72 47159393.79 47159393.86 0.0485 0.0436

Earth 124406-05-30 03:33 G 47159567.52 47159567.65 47159567.79 0.2644 0.0243

Moon 124406-05-30 04:02 G 47159567.53 47159567.67 47159567.80 0.2638 0.0233 *

Saturn 124408-03-28 22:02 G 47160236.30 47160236.42 47160236.55 0.0276 0.0151

Saturn 124408-06-25 12:41 G 47160324.88 47160325.03 47160325.18 0.0275 0.0004

Saturn 124408-09-22 02:50 G 47160413.50 47160413.62 47160413.75 0.0275 0.0154

Moon 124410-11-22 23:57 G 47161205.38 47161205.50 47161205.61 0.2698 0.0761

Earth 124410-11-22 23:43 G 47161205.38 47161205.49 47161205.61 0.2691 0.0837 *

Mars 124411-02-23 05:14 G 47161297.62 47161297.72 47161297.83 0.1952 0.0887

Jupiter 124411-08-15 07:24 G 47161470.68 47161470.81 47161470.95 0.0544 0.0171

Jupiter 124417-06-27 16:45 G 47163614.10 47163614.20 47163614.31 0.0484 0.0358

Jupiter 124417-09-25 08:07 G 47163703.71 47163703.84 47163703.98 0.0485 0.0270

Mars 124417-09-28 23:14 G 47163707.35 47163707.47 47163707.60 0.1585 0.0912

Moon 124419-06-02 01:53 G 47164318.55 47164318.58 47164318.62 0.2642 0.2529

Earth 124419-06-02 02:50 G 47164318.60 47164318.62 47164318.64 0.2646 0.2600 *

Mars 124420-07-15 10:45 G 47164727.83 47164727.95 47164728.06 0.1953 0.0726

Saturn 124423-01-08 22:31 G 47165635.34 47165635.44 47165635.55 0.0283 0.0213

Saturn 124423-04-07 15:05 G 47165723.97 47165724.13 47165724.28 0.0283 0.0043

Jupiter 124423-06-03 09:33 G 47165780.75 47165780.90 47165781.04 0.0544 0.0021

Saturn 124423-07-05 07:38 G 47165812.68 47165812.82 47165812.97 0.0283 0.0130

Earth 124423-11-25 20:50 G 47165956.27 47165956.37 47165956.48 0.2689 0.1293

Moon 124423-11-25 22:02 G 47165956.31 47165956.42 47165956.52 0.2689 0.1371 *

Mars 124427-02-19 05:14 G 47167137.57 47167137.72 47167137.87 0.1585 0.0111

Jupiter 124429-07-14 10:02 G 47168013.76 47168013.92 47168014.07 0.0485 0.0114

Uranus 124431-09-10 22:02 G 47168802.41 47168802.42 47168802.43 0.0141 0.0140

Uranus 124431-12-08 03:05 G 47168890.55 47168890.63 47168890.72 0.0141 0.0118

Uranus 124432-03-05 08:21 G 47168978.74 47168978.85 47168978.97 0.0141 0.0095

Venus 124432-05-02 03:05 G 47169036.53 47169036.63 47169036.73 0.3739 0.1824

Uranus 124432-06-01 13:53 G 47169066.94 47169067.08 47169067.22 0.0141 0.0072

Uranus 124432-08-28 19:09 G 47169155.15 47169155.30 47169155.45 0.0141 0.0049

Uranus 124432-11-25 00:41 G 47169243.37 47169243.53 47169243.69 0.0141 0.0026

Uranus 124433-02-21 05:57 G 47169331.59 47169331.75 47169331.91 0.0141 0.0003

Uranus 124433-05-20 11:29 G 47169419.82 47169419.98 47169420.14 0.0141 0.0021

Uranus 124433-08-16 17:00 G 47169508.06 47169508.21 47169508.36 0.0140 0.0045

Uranus 124433-11-12 22:17 G 47169596.30 47169596.43 47169596.58 0.0140 0.0069

Uranus 124434-02-09 03:48 G 47169684.55 47169684.66 47169684.80 0.0140 0.0093

Uranus 124434-05-08 09:19 G 47169772.82 47169772.89 47169773.00 0.0140 0.0117

Uranus 124434-08-04 15:19 G 47169861.14 47169861.14 47169861.15 0.0140 0.0140

Jupiter 124435-03-22 11:14 G 47170090.84 47170090.97 47170091.11 0.0544 0.0213

Mars 124436-07-11 11:29 G 47170567.88 47170567.98 47170568.09 0.1585 0.1095

Saturn 124437-08-15 21:33 G 47170968.30 47170968.40 47170968.50 0.0276 0.0213

Saturn 124437-11-12 12:12 G 47171056.86 47171057.01 47171057.16 0.0275 0.0058

Venus 124437-11-15 21:48 G 47171060.30 47171060.41 47171060.52 0.3735 0.0289

Saturn 124438-02-09 02:36 G 47171145.47 47171145.61 47171145.76 0.0275 0.0094

Saturn 124438-05-08 16:45 G 47171234.13 47171234.20 47171234.27 0.0275 0.0242

Moon 124439-05-28 09:33 G 47171618.79 47171618.90 47171619.00 0.2637 0.1608

Earth 124439-05-28 10:17 G 47171618.82 47171618.93 47171619.03 0.2642 0.1577 *

Jupiter 124441-05-02 11:29 G 47172323.83 47172323.98 47172324.14 0.0485 0.0047

Venus 124443-06-01 16:17 G 47173084.10 47173084.18 47173084.27 0.3732 0.2293

Earth 124443-11-21 07:53 G 47173256.79 47173256.83 47173256.86 0.2693 0.2570

Moon 124443-11-21 08:50 G 47173256.82 47173256.87 47173256.91 0.2696 0.2462 *

Jupiter 124447-01-08 12:26 G 47174400.93 47174401.02 47174401.12 0.0544 0.0418

Jupiter 124447-04-08 05:43 G 47174490.64 47174490.74 47174490.84 0.0543 0.0395

Venus 124450-06-28 03:05 G 47175667.60 47175667.63 47175667.65 0.3635 0.3564

Mars 124450-08-24 05:29 G 47175724.63 47175724.73 47175724.83 0.1952 0.1057

Saturn 124452-05-27 22:31 G 47176367.40 47176367.44 47176367.48 0.0283 0.0270

Moon 124452-05-30 08:07 G 47176369.71 47176369.84 47176369.97 0.2647 0.0483

Earth 124452-05-30 09:05 G 47176369.75 47176369.88 47176370.01 0.2644 0.0715 *

Saturn 124452-08-24 14:36 G 47176455.97 47176456.11 47176456.26 0.0283 0.0103

Saturn 124452-11-21 07:24 G 47176544.66 47176544.81 47176544.96 0.0283 0.0069

Saturn 124453-02-18 00:12 G 47176633.44 47176633.51 47176633.60 0.0283 0.0246

Jupiter 124453-02-18 13:53 G 47176633.93 47176634.08 47176634.22 0.0484 0.0194

Jupiter 124453-05-19 05:43 G 47176723.68 47176723.74 47176723.80 0.0485 0.0445

Venus 124456-01-12 02:07 G 47177691.46 47177691.59 47177691.72 0.3638 0.0886

Earth 124456-11-23 05:00 G 47178007.59 47178007.71 47178007.84 0.2691 0.0398

Moon 124456-11-23 05:29 G 47178007.60 47178007.73 47178007.85 0.2684 0.0296 *

Mars 124457-03-29 23:43 G 47178134.38 47178134.49 47178134.60 0.1586 0.1083

Neptune 124457-06-19 23:00 G 47178216.41 47178216.46 47178216.52 0.0089 0.0083

Neptune 124457-09-16 00:55 G 47178304.48 47178304.54 47178304.64 0.0089 0.0076

Neptune 124457-12-13 03:19 G 47178392.55 47178392.64 47178392.76 0.0089 0.0068

Neptune 124458-03-11 05:57 G 47178480.64 47178480.75 47178480.88 0.0089 0.0060

Neptune 124458-06-07 08:21 G 47178568.72 47178568.85 47178568.99 0.0089 0.0052

Neptune 124458-09-03 10:45 G 47178656.81 47178656.95 47178657.10 0.0089 0.0044

Neptune 124458-11-30 12:55 G 47178744.90 47178745.04 47178745.20 0.0089 0.0037

Jupiter 124459-01-25 06:12 G 47178800.62 47178800.76 47178800.89 0.0544 0.0177

Neptune 124459-02-26 15:33 G 47178833.00   47178833.15   47178833.31 0.0089 0.0029

Neptune 124459-05-25 17:57 G 47178921.09   47178921.25   47178921.42 0.0089 0.0021

Neptune 124459-08-21 20:21 G 47179009.19   47179009.35   47179009.52 0.0089 0.0013

Neptune 124459-11-17 23:00 G 47179097.29   47179097.46   47179097.62 0.0089 0.0005

Mars   124460-01-14 11:00 G 47179154.84   47179154.96   47179155.08 0.1953 0.0536

Neptune 124460-02-14 01:24 G 47179185.39   47179185.56   47179185.73 0.0089 0.0004

Neptune 124460-05-12 03:48 G 47179273.50   47179273.66   47179273.83 0.0089 0.0012

Neptune 124460-08-08 06:12 G 47179361.60   47179361.76   47179361.93 0.0089 0.0020

Neptune 124460-11-04 08:36 G 47179449.71   47179449.86   47179450.03 0.0089 0.0028

Neptune 124461-01-31 11:14 G 47179537.82   47179537.97   47179538.13 0.0089 0.0036

Neptune 124461-04-29 13:53 G 47179625.93   47179626.08   47179626.22 0.0089 0.0044

Neptune 124461-07-26 16:02 G 47179714.05   47179714.17   47179714.32 0.0089 0.0053

Venus   124461-07-28 01:38 G 47179715.46   47179715.57   47179715.68 0.3642 0.1944

Neptune 124461-10-22 18:41 G 47179802.17   47179802.28   47179802.41 0.0089 0.0061

Neptune 124462-01-18 21:19 G 47179890.29   47179890.39   47179890.50 0.0089 0.0069

Neptune 124462-04-16 23:29 G 47179978.42   47179978.48   47179978.58 0.0089 0.0078

Neptune 124462-07-14 02:21 G 47180066.57   47180066.60   47180066.65 0.0089 0.0086

Jupiter 124464-12-07 16:02 G 47180944.06   47180944.17   47180944.28 0.0484 0.0342

Jupiter 124465-03-07 07:24 G 47181033.68   47181033.81   47181033.94 0.0485 0.0288

Mars   124466-08-20 05:43 G 47181564.59   47181564.74   47181564.89 0.1585 0.0069

Saturn   124467-01-02 23:57 G 47181700.44   47181700.50   47181700.57 0.0276 0.0244

Saturn   124467-04-01 14:50 G 47181788.98   47181789.12   47181789.27 0.0276 0.0089

Saturn   124467-06-29 05:29 G 47181877.58   47181877.73   47181877.87 0.0276 0.0064

Saturn   124467-09-25 19:38 G 47181966.22   47181966.32   47181966.41 0.0275 0.0213

Moon   124469-11-26 01:24 G 47182758.46   47182758.56   47182758.66 0.2686 0.1525

Earth   124469-11-26 02:07 G 47182758.50   47182758.59   47182758.69 0.2689 0.1729 *

Jupiter 124470-11-13 07:38 G 47183110.67   47183110.82   47183110.96 0.0544 0.0024

Uranus   124474-12-15 08:07 G 47184603.78   47184603.84   47184603.91 0.0137 0.0124

Uranus   124475-03-13 12:41 G 47184691.94   47184692.03   47184692.14 0.0137 0.0103

Uranus   124475-06-09 17:29 G 47184780.11   47184780.23   47184780.36 0.0137 0.0082

Uranus 124475-09-05 22:02 G 47184868.29 47184868.42 47184868.56 0.0137 0.0061

Uranus 124475-12-03 02:36 G 47184956.47 47184956.61 47184956.76 0.0137 0.0041

Mars 124476-01-10 11:57 G 47184994.88 47184995.00 47184995.12 0.1584 0.0936

Uranus 124476-02-29 07:09 G 47185044.65 47185044.80 47185044.96 0.0137 0.0021

Uranus 124476-05-27 11:43 G 47185132.84 47185132.99 47185133.15 0.0137 0.0004

Uranus 124476-08-23 16:17 G 47185221.03 47185221.18 47185221.33 0.0138 0.0021

Uranus 124476-11-19 20:50 G 47185309.22 47185309.37 47185309.51 0.0138 0.0042

Jupiter 124476-12-24 08:50 G 47185343.71 47185343.87 47185344.02 0.0484 0.0124

Uranus 124477-02-16 01:09 G 47185397.42 47185397.55 47185397.69 0.0138 0.0062

Uranus 124477-05-15 05:43 G 47185485.62 47185485.74 47185485.86 0.0138 0.0082

Uranus 124477-08-11 10:02 G 47185573.82 47185573.92 47185574.02 0.0138 0.0102

Uranus 124477-11-07 14:21 G 47185662.03 47185662.10 47185662.17 0.0138 0.0122

Saturn 124482-01-11 15:05 G 47187188.00 47187188.13 47187188.27 0.0283 0.0154

Saturn 124482-04-10 07:38 G 47187276.66 47187276.82 47187276.98 0.0283 0.0017

Saturn 124482-07-08 00:26 G 47187365.41 47187365.52 47187365.64 0.0283 0.0191

Jupiter 124482-09-01 09:19 G 47187420.76 47187420.89 47187421.03 0.0545 0.0218

Venus 124483-05-24 06:26 G 47187685.71 47187685.77 47187685.82 0.3741 0.3292

Earth 124485-05-28 15:33 G 47188421.03 47188421.15 47188421.27 0.2642 0.1118

Moon 124485-05-28 15:48 G 47188421.04 47188421.16 47188421.29 0.2649 0.0998 *

Jupiter 124488-10-12 10:31 G 47189653.79 47189653.94 47189654.10 0.0484 0.0034

Venus 124488-12-07 01:24 G 47189709.45 47189709.56 47189709.67 0.3738 0.1127

Moon 124489-11-21 12:12 G 47190058.95 47190059.01 47190059.08 0.2690 0.2291

Earth 124489-11-21 13:09 G 47190058.97 47190059.05 47190059.12 0.2693 0.2114 *

Mars 124490-02-22 05:29 G 47190151.64 47190151.73 47190151.83 0.1952 0.1231

Jupiter 124494-06-20 11:14 G 47191730.87 47191730.97 47191731.06 0.0545 0.0413

Venus 124494-06-22 20:07 G 47191733.23 47191733.34 47191733.45 0.3734 0.0949

Jupiter 124494-09-18 04:17 G 47191820.59 47191820.68 47191820.78 0.0543 0.0402

Saturn 124496-08-18 14:21 G 47192520.98 47192521.10 47192521.23 0.0275 0.0150

Mars 124496-09-28 00:12 G 47192561.41 47192561.51 47192561.60 0.1586 0.1244

Saturn 124496-11-15 05:00 G 47192609.56 47192609.71 47192609.86 0.0275 0.0006

Saturn 124497-02-11 19:24 G 47192698.19 47192698.31 47192698.43 0.0275 0.0154

Earth 124498-05-31 14:36 G 47193171.99 47193172.11 47193172.23 0.2644 0.1189

Moon 124498-05-31 15:48 G 47193172.04 47193172.16 47193172.28 0.2642 0.1268 *

Mars 124499-07-15 11:14 G 47193581.84 47193581.97 47193582.09 0.1953 0.0347

Venus 124500-01-06 14:36 G 47193757.04 47193757.11 47193757.17 0.3731 0.2939

Jupiter 124500-08-01 12:26 G 47193963.87 47193964.02 47193964.16 0.0484 0.0186

Jupiter 124500-10-30 04:17 G 47194053.63 47194053.68 47194053.74 0.0485 0.0452

Moon 124502-11-25 09:48 G 47194809.78 47194809.91 47194810.03 0.2695 0.0045

Earth 124502-11-25 10:31 G 47194809.81 47194809.94 47194810.06 0.2691 0.0110 *

Mars 124506-02-19 06:12 G 47195991.61 47195991.76 47195991.91 0.1585 0.0229

Jupiter 124506-07-08 05:57 G 47196130.62 47196130.75 47196130.89 0.0544 0.0207

Venus 124507-02-03 02:21 G 47196340.52 47196340.60 47196340.69 0.3636 0.2715

Saturn 124511-06-01 14:50 G 47197920.02 47197920.12 47197920.22 0.0283 0.0214

Saturn 124511-08-29 07:09 G 47198008.64 47198008.80 47198008.95 0.0283 0.0045

Saturn 124511-11-25 23:43 G 47198097.35 47198097.49 47198097.64 0.0283 0.0128

Pluto 124511-12-15 03:48 G 47198116.60 47198116.66 47198116.76 0.0058 0.0053

Pluto 124512-03-12 05:14 G 47198204.61 47198204.72 47198204.86 0.0058 0.0045

Jupiter 124512-05-20 14:36 G 47198274.00 47198274.11 47198274.23 0.0484 0.0333

Pluto 124512-06-08 06:26 G 47198292.64 47198292.77 47198292.94 0.0058 0.0038

Jupiter 124512-08-18 06:12 G 47198363.63 47198363.76 47198363.88 0.0485 0.0297

Venus 124512-08-19 01:38 G 47198364.44 47198364.57 47198364.70 0.3640 0.0069

Pluto 124512-09-04 07:53 G 47198380.67 47198380.83 47198381.01 0.0058 0.0030

Pluto 124512-12-01 09:19 G 47198468.71 47198468.89 47198469.08 0.0058 0.0022

Pluto 124513-02-27 10:45 G 47198556.76 47198556.95 47198557.14 0.0058 0.0014

Pluto 124513-05-26 11:57 G 47198644.81 47198645.00 47198645.20 0.0059 0.0006

Pluto 124513-08-22 13:24 G 47198732.86 47198733.06 47198733.25 0.0059 0.0002

Pluto 124513-11-18 14:36 G 47198820.92 47198821.11 47198821.31 0.0059 0.0010

Pluto 124514-02-14 15:48 G 47198908.98 47198909.16 47198909.35 0.0059 0.0018

Pluto 124514-05-13 17:14 G 47198997.05 47198997.22 47198997.40 0.0059 0.0026

Pluto 124514-08-09 18:26 G 47199085.12 47199085.27 47199085.44 0.0059 0.0034

Pluto 124514-11-05 19:53 G 47199173.20 47199173.33 47199173.47 0.0059 0.0042

Pluto 124515-02-01 21:19 G 47199261.29 47199261.39 47199261.49 0.0059 0.0050

Pluto 124515-04-30 22:17 G 47199349.43 47199349.43 47199349.46 0.0059 0.0059

Mars 124515-07-12 12:12 G 47199421.88 47199422.01 47199422.15 0.1585 0.0772

Uranus 124515-10-02 04:45 G 47199503.67 47199503.70 47199503.75 0.0141 0.0135

Earth 124515-11-28 07:24 G 47199560.74 47199560.81 47199560.89 0.2688 0.2161

Moon 124515-11-28 08:07 G 47199560.77 47199560.84 47199560.91 0.2694 0.2209 *

Uranus 124515-12-29 10:17 G 47199591.84 47199591.93 47199592.02 0.0141 0.0112

Uranus 124516-03-26 15:19 G 47199680.03 47199680.14 47199680.27 0.0141 0.0090

Uranus 124516-06-22 20:50 G 47199768.23 47199768.37 47199768.51 0.0141 0.0067

Uranus 124516-09-19 02:07 G 47199856.44 47199856.59 47199856.75 0.0141 0.0044

Uranus 124516-12-16 07:38 G 47199944.66 47199944.82 47199944.98 0.0141 0.0021

Uranus 124517-03-14 12:55 G 47200032.88 47200033.04 47200033.21 0.0141 0.0004

Uranus 124517-06-10 18:26 G 47200121.11 47200121.27 47200121.43 0.0140 0.0026

Uranus 124517-09-06 23:57 G 47200209.35 47200209.50 47200209.65 0.0140 0.0050

Uranus 124517-12-04 05:29 G 47200297.59 47200297.73 47200297.87 0.0140 0.0073

Uranus 124518-03-02 11:00 G 47200385.85 47200385.96 47200386.08 0.0140 0.0097

Venus 124518-03-05 01:24 G 47200388.48 47200388.56 47200388.64 0.3644 0.2884

Jupiter 124518-04-26 06:26 G 47200440.62 47200440.77 47200440.91 0.0544 0.0023

Uranus 124518-05-29 16:31 G 47200474.12 47200474.19 47200474.28 0.0140 0.0121

Jupiter 124524-03-08 17:00 G 47202584.20 47202584.21 47202584.23 0.0484 0.0480

Jupiter 124524-06-06 07:53 G 47202673.68 47202673.83 47202673.98 0.0485 0.0141

Saturn 124526-01-06 16:45 G 47203253.09 47203253.20 47203253.32 0.0276 0.0182

Saturn 124526-04-05 07:38 G 47203341.67 47203341.82 47203341.97 0.0276 0.0028

Saturn 124526-07-02 22:02 G 47203430.29 47203430.42 47203430.55 0.0276 0.0124

Saturn 124526-09-29 11:57 G 47203518.99 47203519.00 47203519.03 0.0276 0.0272

Mars 124529-08-24 05:43 G 47204578.66 47204578.74 47204578.83 0.1952 0.1414

Jupiter 124530-02-12 07:24 G 47204750.68 47204750.81 47204750.95 0.0544 0.0222

Moon 124531-05-30 21:05 G 47205223.25 47205223.38 47205223.51 0.2636 0.0579

Earth 124531-05-30 21:05 G 47205223.25 47205223.38 47205223.51 0.2642 0.0651 *

Earth 124535-11-23 18:26 G 47206861.17 47206861.27 47206861.37 0.2693 0.1653

Moon 124535-11-23 18:55 G 47206861.19 47206861.29 47206861.39 0.2699 0.1601 *

Jupiter 124536-03-25 09:19 G 47206983.73 47206983.89 47206984.05 0.0484 0.0023

Mars 124536-03-30 00:26 G 47206988.46 47206988.52 47206988.59 0.1586 0.1413

Neptune 124538-04-21 05:29 G 47207740.73 47207740.73 47207740.77 0.0089 0.0088

Neptune 124538-07-18 07:53 G 47207828.77 47207828.83 47207828.90 0.0089 0.0080

Neptune 124538-10-14 09:33 G 47207916.83 47207916.90 47207917.00 0.0089 0.0073

Neptune 124539-01-10 11:43 G 47208004.90 47208004.99 47208005.10 0.0089 0.0065

Mars 124539-01-14 11:14 G 47208008.84 47208008.97 47208009.09 0.1952 0.0183

Neptune 124539-04-08 13:38 G 47208092.97 47208093.07 47208093.20 0.0089 0.0058

Neptune 124539-07-05 15:48 G 47208181.04 47208181.16 47208181.29 0.0089 0.0050

Neptune 124539-10-01 17:43 G 47208269.11 47208269.24 47208269.38 0.0088 0.0043

Neptune 124539-12-28 19:38 G 47208357.19 47208357.32 47208357.47 0.0088 0.0035

Venus 124539-12-30 04:45 G 47208358.62 47208358.70 47208358.78 0.3740 0.2575

Neptune 124540-03-25 21:48 G 47208445.26 47208445.41 47208445.55 0.0088 0.0028

Neptune 124540-06-21 23:43 G 47208533.34 47208533.49 47208533.64 0.0088 0.0020

Neptune 124540-09-18 01:38 G 47208621.42 47208621.57 47208621.72 0.0088 0.0013

Saturn 124540-10-18 15:33 G 47208652.10 47208652.15 47208652.22 0.0283 0.0259

Neptune 124540-12-15 03:33 G 47208709.50 47208709.65 47208709.80 0.0088 0.0006

Saturn 124541-01-15 07:53 G 47208740.69 47208740.83 47208740.98 0.0283 0.0092

Neptune 124541-03-13 05:29 G 47208797.58 47208797.73 47208797.88 0.0088 0.0002

Saturn 124541-04-14 00:26 G 47208829.37 47208829.52 47208829.68 0.0283 0.0080

Neptune 124541-06-09 07:24 G 47208885.66 47208885.81 47208885.96 0.0088 0.0009

Saturn 124541-07-11 17:14 G 47208918.16 47208918.22 47208918.30 0.0283 0.0256

Neptune 124541-09-05 09:05 G 47208973.74 47208973.88 47208974.04 0.0088 0.0017

Jupiter 124541-12-01 09:05 G 47209060.79 47209060.88 47209060.97 0.0545 0.0420

Neptune 124541-12-02 11:00 G 47209061.82 47209061.96 47209062.11 0.0088 0.0023

Neptune 124542-02-28 12:55 G 47209149.90 47209150.04 47209150.18 0.0088 0.0030

Jupiter 124542-03-01 02:21 G 47209150.50 47209150.60 47209150.70 0.0544 0.0396

Neptune 124542-05-27 14:50 G 47209237.99 47209238.12 47209238.26 0.0088 0.0038

Neptune 124542-08-23 16:31 G 47209326.07   47209326.19   47209326.33 0.0088 0.0045

Neptune 124542-11-19 18:26 G 47209414.15   47209414.27   47209414.40 0.0088 0.0052

Neptune 124543-02-15 20:21 G 47209502.24   47209502.35   47209502.46 0.0088 0.0059

Neptune 124543-05-14 22:17 G 47209590.33   47209590.43   47209590.53 0.0088 0.0066

Neptune 124543-08-10 23:57 G 47209678.42   47209678.50   47209678.59 0.0088 0.0073

Neptune 124543-11-07 01:53 G 47209766.52   47209766.58   47209766.64 0.0088 0.0080

Neptune 124544-02-03 03:33 G 47209854.63   47209854.65   47209854.68 0.0088 0.0087

Moon   124544-06-01 19:09 G 47209974.19   47209974.30   47209974.41 0.2644 0.1422

Earth   124544-06-01 20:07 G 47209974.24   47209974.34   47209974.45 0.2645 0.1669 *

Venus   124545-07-14 23:43 G 47210382.38   47210382.49   47210382.60 0.3737 0.0435

Mars   124545-08-20 06:26 G 47210418.62   47210418.77   47210418.92 0.1585 0.0386

Jupiter 124548-01-12 11:14 G 47211293.83   47211293.97   47211294.12 0.0484 0.0175

Jupiter 124548-04-11 03:05 G 47211383.59   47211383.63   47211383.68 0.0485 0.0464

Mars   124548-06-05 16:17 G 47211439.14   47211439.18   47211439.23 0.1953 0.1798

Earth   124548-11-25 15:48 G 47211612.03   47211612.16   47211612.28 0.2690 0.0509

Moon   124548-11-25 16:31 G 47211612.07   47211612.19   47211612.31 0.2688 0.0675 *

Venus   124551-01-28 18:26 G 47212406.17   47212406.27   47212406.37 0.3733 0.1615

Jupiter 124553-12-18 04:31 G 47213460.56   47213460.69   47213460.82 0.0544 0.0210

Mars   124555-01-10 12:41 G 47213848.89   47213849.03   47213849.17 0.1585 0.0610

Saturn   124555-05-26 16:31 G 47213985.12   47213985.19   47213985.27 0.0276 0.0242

Saturn   124555-08-23 07:24 G 47214073.67   47214073.81   47214073.96 0.0275 0.0086

Saturn   124555-11-19 22:02 G 47214162.27   47214162.42   47214162.56 0.0275 0.0066

Saturn   124556-02-16 12:12 G 47214250.92   47214251.01   47214251.10 0.0275 0.0215

Venus   124556-08-13 12:41 G 47214430.00   47214430.03   47214430.06 0.3730 0.3576

Uranus   124559-01-05 15:05 G 47215305.06   47215305.13   47215305.21 0.0137 0.0119

Uranus   124559-04-03 19:38 G 47215393.22   47215393.32   47215393.44 0.0137 0.0098

Uranus   124559-07-01 00:26 G 47215481.40   47215481.52   47215481.65 0.0137 0.0077

Uranus   124559-09-27 05:00 G 47215569.58   47215569.71   47215569.86 0.0137 0.0057

Jupiter 124559-10-31 13:09 G 47215603.94   47215604.05   47215604.17 0.0484 0.0328

Uranus   124559-12-24 09:48 G 47215657.76   47215657.91   47215658.06 0.0137 0.0035

Jupiter 124560-01-29 04:31 G 47215693.57 47215693.69 47215693.82 0.0485 0.0302

Uranus 124560-03-21 14:21 G 47215745.95 47215746.10 47215746.25 0.0137 0.0015

Uranus 124560-06-17 18:55 G 47215834.14 47215834.29 47215834.44 0.0137 0.0006

Uranus 124560-09-13 23:29 G 47215922.33 47215922.48 47215922.63 0.0138 0.0027

Uranus 124560-12-11 03:48 G 47216010.52 47216010.66 47216010.80 0.0138 0.0047

Uranus 124561-03-09 08:07 G 47216098.72 47216098.84 47216098.98 0.0138 0.0068

Uranus 124561-06-05 12:26 G 47216186.92 47216187.02 47216187.15 0.0138 0.0088

Uranus 124561-09-01 16:45 G 47216275.12 47216275.20 47216275.31 0.0138 0.0108

Moon 124561-11-28 12:26 G 47216362.97 47216363.02 47216363.06 0.2682 0.2465

Earth 124561-11-28 12:41 G 47216363.00 47216363.03 47216363.06 0.2688 0.2587 *

Uranus 124561-11-28 21:05 G 47216363.34 47216363.38 47216363.45 0.0138 0.0128

Venus 124563-09-10 01:53 G 47217013.47 47217013.58 47217013.69 0.3637 0.1850

Earth 124564-05-28 03:48 G 47217274.61 47217274.66 47217274.72 0.2640 0.2414

Moon 124564-05-28 02:50 G 47217274.62 47217274.62 47217274.63 0.2639 0.2632 *

Jupiter 124565-10-06 05:57 G 47217770.61 47217770.75 47217770.90 0.0544 0.0022

Mars 124569-02-22 05:57 G 47219005.68 47219005.75 47219005.82 0.1951 0.1596

Venus 124569-03-26 01:09 G 47219037.42 47219037.55 47219037.68 0.3641 0.0902

Saturn 124570-06-04 07:09 G 47219472.67 47219472.80 47219472.93 0.0283 0.0156

Saturn 124570-08-31 23:43 G 47219561.33 47219561.49 47219561.65 0.0283 0.0015

Saturn 124570-11-28 16:31 G 47219650.07 47219650.19 47219650.31 0.0283 0.0189

Jupiter 124571-08-19 15:33 G 47219914.12 47219914.15 47219914.18 0.0484 0.0473

Jupiter 124571-11-17 06:41 G 47220003.62 47220003.78 47220003.93 0.0485 0.0149

Mars 124575-09-29 00:55 G 47221415.54 47221415.54 47221415.55 0.1586 0.1582

Moon 124577-05-31 02:07 G 47222025.46 47222025.59 47222025.72 0.2648 0.0200

Earth 124577-05-31 02:36 G 47222025.48 47222025.61 47222025.75 0.2643 0.0187 *

Jupiter 124577-07-25 06:12 G 47222080.63 47222080.76 47222080.89 0.0544 0.0213

Mars 124578-07-15 11:14 G 47222435.85 47222435.97 47222436.10 0.1952 0.0047

Moon 124581-11-23 23:43 G 47223663.37 47223663.49 47223663.60 0.2685 0.1210

Earth 124581-11-23 23:43 G 47223663.38 47223663.49 47223663.60 0.2693 0.1200 *

Jupiter 124583-09-05 08:36 G 47224313.70 47224313.86 47224314.02 0.0485 0.0013

Saturn 124584-10-12 18:55 G 47224717.28 47224717.29 47224717.31 0.0276 0.0274

Saturn 124585-01-09 09:48 G 47224805.78 47224805.91 47224806.05 0.0276 0.0118

Mars 124585-02-18 06:55 G 47224845.65 47224845.79 47224845.93 0.1585 0.0559

Saturn 124585-04-08 00:26 G 47224894.37 47224894.52 47224894.68 0.0276 0.0037

Saturn 124585-07-05 14:50 G 47224983.01 47224983.12 47224983.23 0.0276 0.0186

Mars 124587-12-05 16:31 G 47225866.12 47225866.19 47225866.26 0.1953 0.1609

Jupiter 124589-05-13 07:09 G 47226390.71 47226390.80 47226390.89 0.0544 0.0423

Jupiter 124589-08-11 00:26 G 47226480.43 47226480.52 47226480.62 0.0543 0.0392

Earth 124590-06-03 01:38 G 47226776.50 47226776.57 47226776.65 0.2645 0.2155

Moon 124590-06-03 02:36 G 47226776.55 47226776.61 47226776.68 0.2649 0.2236 *

Mars 124594-07-11 12:55 G 47228275.90 47228276.04 47228276.19 0.1585 0.0452

Moon 124594-11-26 20:07 G 47228414.22 47228414.34 47228414.46 0.2692 0.0818

Earth 124594-11-26 21:05 G 47228414.26 47228414.38 47228414.49 0.2690 0.0950 *

Jupiter 124595-06-24 10:02 G 47228623.77 47228623.92 47228624.07 0.0484 0.0166

Jupiter 124595-09-22 01:53 G 47228713.55 47228713.58 47228713.62 0.0485 0.0473

Venus 124596-08-05 03:05 G 47229031.53 47229031.63 47229031.73 0.3740 0.1877

Saturn 124599-10-22 08:36 G 47230204.75 47230204.86 47230204.98 0.0283 0.0196

Uranus 124599-10-22 11:43 G 47230204.94 47230204.99 47230205.06 0.0141 0.0130 *

Uranus 124600-01-18 17:00 G 47230293.12 47230293.21 47230293.32 0.0141 0.0107

Saturn 124600-01-19 00:55 G 47230293.39 47230293.54 47230293.70 0.0283 0.0028

Uranus 124600-04-16 22:31 G 47230381.31 47230381.44 47230381.57 0.0141 0.0084

Saturn 124600-04-17 17:43 G 47230382.10 47230382.24 47230382.38 0.0283 0.0146

Uranus 124600-07-14 03:33 G 47230469.52 47230469.65 47230469.81 0.0141 0.0062

Uranus 124600-10-10 09:05 G 47230557.73 47230557.88 47230558.04 0.0141 0.0038

Uranus 124601-01-06 14:36 G 47230645.95 47230646.11 47230646.27 0.0141 0.0015

Uranus 124601-04-04 19:53 G 47230734.17 47230734.33 47230734.50 0.0140 0.0009

Jupiter 124601-05-31 02:21 G 47230790.47 47230790.60 47230790.74 0.0544 0.0202

Uranus 124601-07-02 01:24 G 47230822.40 47230822.56 47230822.72 0.0140 0.0032

Uranus 124601-09-28 06:41 G 47230910.64 47230910.78 47230910.94 0.0140 0.0056

Uranus 124601-12-25 12:26 G 47230998.88 47230999.02 47230999.15 0.0140 0.0079

Venus 124602-02-19 22:02 G 47231055.31 47231055.42 47231055.53 0.3736 0.0245

Uranus 124602-03-23 17:57 G 47231087.14 47231087.25 47231087.36 0.0140 0.0102

Uranus 124602-06-19 23:29 G 47231175.42 47231175.48 47231175.55 0.0140 0.0126

Mars 124603-12-02 19:24 G 47231706.25 47231706.31 47231706.37 0.1585 0.1435

Jupiter 124607-04-13 12:12 G 47232933.89 47232934.01 47232934.13 0.0484 0.0317

Jupiter 124607-07-12 03:19 G 47233023.53 47233023.64 47233023.77 0.0485 0.0313

Venus 124607-09-05 16:31 G 47233079.10 47233079.19 47233079.28 0.3733 0.2257

Mars 124608-08-24 05:57 G 47233432.70 47233432.75 47233432.80 0.1952 0.1755

Pluto 124610-05-08 23:28 G 47234055.42 47234055.48 47234055.56 0.0085 0.0072

Earth 124610-05-30 09:19 G 47234076.81 47234076.89 47234076.98 0.2640 0.1959

Moon 124610-05-30 10:02 G 47234076.83 47234076.92 47234077.01 0.2645 0.1885 *

Pluto 124610-08-05 00:55 G 47234143.45 47234143.54 47234143.65 0.0085 0.0055

Pluto 124610-11-01 02:07 G 47234231.48 47234231.59 47234231.72 0.0085 0.0039

Pluto 124611-01-28 03:33 G 47234319.52 47234319.65 47234319.78 0.0085 0.0021

Pluto 124611-04-26 05:00 G 47234407.57 47234407.71 47234407.84 0.0085 0.0005

Pluto 124611-07-23 06:12 G 47234495.63 47234495.76 47234495.89 0.0085 0.0012

Pluto 124611-10-19 07:24 G 47234583.69 47234583.81 47234583.94 0.0085 0.0028

Pluto 124612-01-15 08:36 G 47234671.75 47234671.86 47234671.98 0.0085 0.0045

Pluto 124612-04-12 09:33 G 47234759.83 47234759.90 47234760.01 0.0085 0.0062

Pluto 124612-07-09 11:00 G 47234847.92 47234847.96 47234848.02 0.0084 0.0078

Jupiter 124613-03-19 04:31 G 47235100.54 47235100.69 47235100.83 0.0544 0.0020

Saturn 124614-05-30 09:48 G 47235537.79 47235537.91 47235538.03 0.0276 0.0175

Saturn 124614-08-27 00:40 G 47235626.37 47235626.53 47235626.68 0.0275 0.0022

Saturn 124614-11-23 15:04 G 47235714.99 47235715.13 47235715.26 0.0275 0.0130

Mars 124618-01-14 11:43 G 47236862.86 47236862.99 47236863.11 0.1952 0.0206

Jupiter 124619-01-30 14:07 G 47237244.06 47237244.09 47237244.13 0.0484 0.0468

Jupiter 124619-04-30 05:00 G 47237333.56 47237333.71 47237333.86 0.0485 0.0152

Venus 124620-04-17 01:24 G 47237686.43 47237686.56 47237686.68 0.3638 0.0985

Neptune 124621-12-20 19:52 G 47238299.30 47238299.33 47238299.37 0.0089 0.0086

Neptune 124622-03-18 22:02 G 47238387.36 47238387.42 47238387.51 0.0089 0.0079

Neptune 124622-06-15 00:26 G 47238475.44 47238475.52 47238475.63 0.0089 0.0071

Neptune 124622-09-11 02:50 G 47238563.52 47238563.62 47238563.74 0.0089 0.0063

Neptune 124622-12-08 05:14 G 47238651.60 47238651.72 47238651.85 0.0089 0.0055

Neptune 124623-03-06 07:24 G 47238739.69 47238739.81 47238739.96 0.0089 0.0048

Earth 124623-06-02 08:07 G 47238827.71 47238827.84 47238827.97 0.2643 0.0301

Moon 124623-06-02 09:04 G 47238827.75 47238827.88 47238828.01 0.2638 0.0480 *

Neptune 124623-06-02 09:48 G 47238827.78 47238827.91 47238828.07 0.0089 0.0040 *

Neptune 124623-08-29 12:26 G 47238915.87 47238916.02 47238916.18 0.0089 0.0032

Neptune 124623-11-25 14:50 G 47239003.97 47239004.12 47239004.28 0.0089 0.0024

Neptune 124624-02-21 17:14 G 47239092.06 47239092.22 47239092.39 0.0089 0.0016

Neptune 124624-05-19 19:52 G 47239180.16 47239180.33 47239180.49 0.0089 0.0008

Neptune 124624-08-15 22:16 G 47239268.26 47239268.43 47239268.59 0.0089 0.0001

Mars 124624-08-20 07:24 G 47239272.67 47239272.81 47239272.94 0.1585 0.0723

Neptune 124624-11-12 00:40 G 47239356.37 47239356.53 47239356.70 0.0089 0.0008

Jupiter 124625-01-05 05:57 G 47239410.61 47239410.75 47239410.88 0.0544 0.0188

Neptune 124625-02-08 03:04 G 47239444.47 47239444.63 47239444.80 0.0089 0.0017

Neptune 124625-05-07 05:28 G 47239532.58 47239532.73 47239532.90 0.0089 0.0025

Neptune 124625-08-03 07:52 G 47239620.68 47239620.83 47239620.99 0.0089 0.0033

Neptune 124625-10-30 10:31 G 47239708.80 47239708.94 47239709.09 0.0089 0.0041

Venus 124625-11-01 00:55 G 47239710.42 47239710.54 47239710.65 0.3642 0.1830

Neptune 124626-01-26 12:55 G 47239796.91 47239797.04 47239797.19 0.0089 0.0049

Neptune 124626-04-24 15:33 G 47239885.03 47239885.15 47239885.28 0.0089 0.0057

Neptune 124626-07-21 17:43 G 47239973.15 47239973.24 47239973.37 0.0089 0.0066

Neptune 124626-10-17 20:21 G 47240061.27 47240061.35 47240061.46 0.0089 0.0074

Neptune 124627-01-13 23:14 G 47240149.41 47240149.47 47240149.53 0.0089 0.0082

Mars 124627-06-06 16:45 G 47240293.12 47240293.20 47240293.28 0.1952 0.1431

Moon 124627-11-26 05:00 G 47240465.59 47240465.71 47240465.82 0.2699 0.0765

Earth 124627-11-26 05:00 G 47240465.59 47240465.71 47240465.83 0.2692 0.0751 *

Saturn 124629-03-11 07:52 G 47240936.78 47240936.83 47240936.90 0.0283 0.0259

Saturn 124629-06-08 00:12 G 47241025.36 47241025.51 47241025.66 0.0283 0.0092

Saturn 124629-09-04 16:45 G 47241114.05 47241114.20 47241114.35 0.0283 0.0080

Saturn 124629-12-02 09:33 G 47241202.84 47241202.90 47241202.98 0.0283 0.0255

Jupiter 124631-02-16 07:09 G 47241643.64 47241643.80 47241643.95 0.0485 0.0012

Mars 124634-01-10 13:24 G 47242702.91 47242703.06 47242703.21 0.1585 0.0284

Moon 124636-06-04 06:26 G 47243578.73 47243578.77 47243578.82 0.2640 0.2454

Jupiter 124636-10-24 05:57 G 47243720.66 47243720.75 47243720.84 0.0544 0.0415

Jupiter 124637-01-21 23:14 G 47243810.37 47243810.47 47243810.56 0.0543 0.0399

Earth 124640-11-28 02:21 G 47245216.49 47245216.60 47245216.70 0.2690 0.1385

Moon 124640-11-28 03:04 G 47245216.53 47245216.63 47245216.73 0.2693 0.1508 *

Uranus 124642-10-30 17:28 G 47245918.21 47245918.23 47245918.25 0.0137 0.0135

Jupiter 124642-12-05 09:04 G 47245953.73 47245953.88 47245954.03 0.0484 0.0154

Uranus 124643-01-26 22:02 G 47246006.34 47246006.42 47246006.51 0.0137 0.0114

Uranus 124643-04-25 02:36 G 47246094.51 47246094.61 47246094.73 0.0137 0.0094

Mars 124643-06-02 19:38 G 47246133.24 47246133.32 47246133.41 0.1585 0.1274

Uranus 124643-07-22 07:24 G 47246182.68 47246182.81 47246182.95 0.0137 0.0072

Saturn 124643-10-17 12:12 G 47246269.91 47246270.01 47246270.11 0.0276 0.0208

Uranus 124643-10-18 11:57 G 47246270.86 47246271.00 47246271.15 0.0137 0.0052

Saturn 124644-01-14 03:04 G 47246358.48 47246358.63 47246358.78 0.0276 0.0053

Uranus 124644-01-14 16:45 G 47246359.05 47246359.20 47246359.35 0.0137 0.0031

Saturn 124644-04-11 17:28 G 47246447.09 47246447.23 47246447.37 0.0276 0.0099

Uranus 124644-04-11 21:19 G 47246447.24 47246447.39 47246447.54 0.0137 0.0010 *

Uranus 124644-07-09 01:52 G 47246535.43 47246535.58 47246535.73 0.0138 0.0011

Saturn 124644-07-09 07:52 G 47246535.76 47246535.83 47246535.89 0.0276 0.0248

Uranus 124644-10-05 06:12 G 47246623.62 47246623.76 47246623.91 0.0138 0.0032

Uranus 124645-01-01 10:45 G 47246711.81 47246711.95 47246712.09 0.0138 0.0052

Uranus 124645-03-30 15:19 G 47246800.01 47246800.14 47246800.27 0.0138 0.0072

Uranus 124645-06-26 19:24 G 47246888.21 47246888.31 47246888.43 0.0138 0.0093

Uranus 124645-09-22 23:43 G 47246976.42 47246976.49 47246976.59 0.0138 0.0113

Uranus 124645-12-20 04:31 G 47247064.65 47247064.69 47247064.73 0.0138 0.0132

Venus 124647-08-28 06:26 G 47247680.72 47247680.77 47247680.82 0.3742 0.3360

Jupiter 124648-11-10 00:26 G 47248120.39 47248120.52 47248120.66 0.0544 0.0198

Venus 124653-03-13 01:24 G 47249704.46 47249704.56 47249704.67 0.3739 0.1184

Jupiter 124654-09-23 10:45 G 47250263.83 47250263.95 47250264.07 0.0484 0.0311

Jupiter 124654-12-22 01:52 G 47250353.47 47250353.58 47250353.71 0.0485 0.0319

Moon 124656-05-30 14:21 G 47250878.99 47250879.10 47250879.21 0.2634 0.1581

Earth 124656-05-30 14:50 G 47250879.01 47250879.12 47250879.23 0.2641 0.1501 *

Mars 124657-07-15 11:43 G 47251289.86 47251289.99 47251290.11 0.1952 0.0365

Venus 124658-09-26 20:07 G 47251728.23 47251728.34 47251728.45 0.3735 0.0911

Saturn 124658-10-26 02:07 G 47251757.45 47251757.59 47251757.73 0.0283 0.0128

Saturn 124659-01-22 18:26 G 47251846.12 47251846.27 47251846.43 0.0283 0.0043

Saturn 124659-04-21 11:14 G 47251934.87 47251934.97 47251935.08 0.0283 0.0216

Jupiter 124660-08-29 02:07 G 47252430.45 47252430.59 47252430.74 0.0544 0.0006

Earth 124660-11-23 12:55 G 47252517.00 47252517.04 47252517.08 0.2694 0.2501

Moon 124660-11-23 13:38 G 47252517.02 47252517.07 47252517.13 0.2697 0.2417 *

Mars 124664-02-19 07:38 G 47253699.70 47253699.82 47253699.95 0.1585 0.0884

Venus 124664-04-11 14:50 G 47253752.05 47253752.12 47253752.18 0.3732 0.2910

Jupiter 124666-07-12 12:55 G 47254573.99 47254574.04 47254574.08 0.0484 0.0460

Jupiter 124666-10-10 03:33 G 47254663.50 47254663.65 47254663.81 0.0485 0.0161

Mars 124666-12-05 17:00 G 47254720.11 47254720.21 47254720.30 0.1953 0.1245

Moon 124669-06-02 12:40 G 47255629.90 47255630.03 47255630.16 0.2646 0.0655

Earth 124669-06-02 13:38 G 47255629.95 47255630.07 47255630.20 0.2643 0.0776 *

Venus 124671-05-09 01:52 G 47256335.50 47256335.58 47256335.66 0.3635 0.2795

Jupiter 124672-06-17 03:48 G 47256740.53 47256740.66 47256740.80 0.0545 0.0193

Saturn 124673-03-05 12:26 G 47257001.98 47257002.02 47257002.06 0.0276 0.0262

Saturn 124673-06-02 03:19 G 47257090.50 47257090.64 47257090.78 0.0276 0.0106

Mars 124673-07-11 13:52 G 47257129.93 47257130.08 47257130.23 0.1585 0.0134

Saturn 124673-08-29 17:57 G 47257179.10 47257179.25 47257179.40 0.0275 0.0047

Saturn 124673-11-26 08:21 G 47257267.75 47257267.85 47257267.95 0.0275 0.0197

Earth 124673-11-26 10:16 G 47257267.81 47257267.93 47257268.06 0.2692 0.0317 *

Moon 124673-11-26 11:00 G 47257267.84 47257267.96 47257268.09 0.2687 0.0150 *

Venus 124676-11-22 00:55 G 47258359.41 47258359.54 47258359.67 0.3639 0.0094

Jupiter 124678-07-29 05:14 G 47258973.56 47258973.72 47258973.88 0.0484 0.0006

Venus 124682-06-08 00:40 G 47260383.44 47260383.53 47260383.61 0.3643 0.2778

Mars 124682-12-01 20:07 G 47260560.23 47260560.34 47260560.44 0.1585 0.1111

Uranus 124683-11-12 18:55 G 47260906.22 47260906.29 47260906.37 0.0141 0.0124

Uranus 124684-02-08 23:57 G 47260994.41 47260994.50 47260994.62 0.0141 0.0102

Jupiter 124684-04-05 05:14 G 47261050.62 47261050.72 47261050.82 0.0545 0.0394

Uranus 124684-05-07 05:28 G 47261082.60 47261082.73 47261082.86 0.0141 0.0079

Jupiter 124684-07-03 22:31 G 47261140.36 47261140.44 47261140.53 0.0543 0.0421

Uranus 124684-08-03 10:45 G 47261170.81 47261170.95 47261171.10 0.0141 0.0056

Uranus 124684-10-30 16:16 G 47261259.02 47261259.18 47261259.33 0.0141 0.0033

Uranus 124685-01-26 21:33 G 47261347.24 47261347.40 47261347.56 0.0140 0.0010

Uranus 124685-04-25 02:50 G 47261435.46 47261435.62 47261435.79 0.0140 0.0014

Uranus 124685-07-22 08:21 G 47261523.70 47261523.85 47261524.01 0.0140 0.0037

Uranus 124685-10-18 13:52 G 47261611.93 47261612.08 47261612.23 0.0140 0.0061

Uranus 124686-01-14 19:24 G 47261700.18 47261700.31 47261700.44 0.0140 0.0084

Uranus 124686-04-13 00:55 G 47261788.44 47261788.54 47261788.65 0.0140 0.0108

Uranus 124686-07-10 06:26 G 47261876.73 47261876.77 47261876.83 0.0140 0.0132

Moon 124686-11-29 06:55 G 47262018.70 47262018.79 47262018.89 0.2684 0.1679

Earth 124686-11-29 07:38 G 47262018.73 47262018.82 47262018.91 0.2690 0.1826 *

Saturn 124688-03-14 01:09 G 47262489.45 47262489.55 47262489.67 0.0283 0.0192

Saturn 124688-06-10 17:43 G 47262578.08 47262578.24 47262578.40 0.0283 0.0023

Saturn 124688-09-07 10:16 G 47262666.80 47262666.93 47262667.07 0.0283 0.0150

Jupiter 124690-05-17 07:24 G 47263283.66 47263283.81 47263283.96 0.0484 0.0149

Jupiter 124696-04-21 23:14 G 47265450.34 47265450.47 47265450.60 0.0543 0.0205

Mars 124697-01-13 11:57 G 47265716.88 47265717.00 47265717.12 0.1952 0.0554

Jupiter 124702-03-06 09:19 G 47267593.77 47267593.89 47267594.02 0.0484 0.0302

Moon 124702-06-01 20:21 G 47267681.23 47267681.35 47267681.47 0.2647 0.1032

Earth 124702-06-01 20:21 G 47267681.23 47267681.35 47267681.47 0.2641 0.1038 *

Jupiter 124702-06-04 00:55 G 47267683.42 47267683.54 47267683.65 0.0485 0.0330

Saturn 124702-10-21 05:28 G 47267822.60 47267822.73 47267822.87 0.0276 0.0140

Saturn 124703-01-17 20:21 G 47267911.20 47267911.35 47267911.50 0.0276 0.0015

Neptune 124703-01-18 05:14 G 47267911.68 47267911.72 47267911.78 0.0089 0.0083

Neptune 124703-04-16 07:09 G 47267999.73 47267999.80 47267999.89 0.0089 0.0076

Saturn 124703-04-16 10:45 G 47267999.83 47267999.95 47268000.07 0.0276 0.0166 *

Neptune 124703-07-13 09:19 G 47268087.80 47268087.89 47268088.00 0.0089 0.0068

Mars 124703-08-21 08:07 G 47268126.73 47268126.84 47268126.95 0.1585 0.1054

Neptune 124703-10-09 11:14 G 47268175.87 47268175.97 47268176.09 0.0089 0.0061

Neptune 124704-01-05 13:24 G 47268263.94 47268264.06 47268264.19 0.0089 0.0053

Neptune 124704-04-02 15:19 G 47268352.01 47268352.14 47268352.28 0.0088 0.0045

Venus 124704-04-04 04:45 G 47268353.62 47268353.70 47268353.78 0.3741 0.2647

Neptune 124704-06-29 17:28 G 47268440.09 47268440.23 47268440.36 0.0088 0.0038

Neptune 124704-09-25 19:09 G 47268528.17 47268528.30 47268528.45 0.0088 0.0031

Neptune 124704-12-22 21:04 G 47268616.24 47268616.38 47268616.54 0.0088 0.0024

Neptune 124705-03-20 23:14 G 47268704.32 47268704.47 47268704.62 0.0088 0.0016

Neptune 124705-06-17 01:09 G 47268792.40 47268792.55 47268792.70 0.0088 0.0009

Neptune 124705-09-13 03:04 G 47268880.48 47268880.63 47268880.78 0.0088 0.0001

Neptune 124705-12-10 05:00 G 47268968.56 47268968.71 47268968.86 0.0088 0.0006

Neptune 124706-03-08 06:55 G 47269056.64 47269056.79 47269056.94 0.0088 0.0013

Neptune 124706-06-04 08:50 G 47269144.72 47269144.87 47269145.01 0.0088 0.0021

Mars 124706-06-06 17:00 G 47269147.11 47269147.21 47269147.32 0.1952 0.1066

Neptune 124706-08-31 10:45 G 47269232.80 47269232.95 47269233.09 0.0088 0.0028

Moon 124706-11-25 17:57 G 47269319.17 47269319.25 47269319.32 0.2688 0.2165

Earth 124706-11-25 18:12 G 47269319.18 47269319.26 47269319.34 0.2694 0.2033 *

Neptune 124706-11-27 12:12 G 47269320.89 47269321.01 47269321.16 0.0088 0.0036

Neptune 124707-02-23 14:07 G 47269408.97 47269409.09 47269409.23 0.0088 0.0043

Neptune 124707-05-22 16:02 G 47269497.06 47269497.17 47269497.30 0.0088 0.0049

Neptune 124707-08-18 17:57 G 47269585.14 47269585.25 47269585.37 0.0088 0.0056

Neptune 124707-11-14 19:38 G 47269673.23 47269673.32 47269673.44 0.0088 0.0064

Jupiter 124708-02-10 00:12 G 47269760.37 47269760.51 47269760.66 0.0544 0.0014

Neptune 124708-02-10 21:33 G 47269761.32 47269761.40 47269761.50 0.0088 0.0070

Neptune 124708-05-08 23:14 G 47269849.42 47269849.47 47269849.56 0.0088 0.0078

Neptune 124708-08-05 01:09 G 47269937.52 47269937.55 47269937.61 0.0088 0.0084

Venus 124709-10-18 23:43 G 47270377.38 47270377.49 47270377.61 0.3737 0.0503

Mars 124713-01-10 14:07 G 47271556.94 47271557.09 47271557.24 0.1585 0.0037

Jupiter 124713-12-23 11:14 G 47271903.92 47271903.97 47271904.02 0.0484 0.0457

Jupiter 124714-03-23 02:07 G 47271993.44 47271993.59 47271993.74 0.0485 0.0164

Venus 124715-05-04 18:26 G 47272401.17 47272401.27 47272401.37 0.3734 0.1565

Earth 124715-06-04 19:09 G 47272432.18 47272432.30 47272432.42 0.2643 0.1241

Moon 124715-06-04 20:21 G 47272432.23 47272432.35 47272432.46 0.2645 0.1406 *

Saturn 124717-08-02 03:48 G 47273221.57 47273221.66 47273221.76 0.0283 0.0221

Saturn 124717-10-29 20:07 G 47273310.19 47273310.34 47273310.49 0.0283 0.0054

Saturn 124718-01-26 12:40 G 47273398.89 47273399.03 47273399.17 0.0283 0.0118

Moon 124719-11-28 14:50 G 47274070.00 47274070.12 47274070.24 0.2695 0.0068

Earth 124719-11-28 15:48 G 47274070.03 47274070.16 47274070.28 0.2691 0.0161 *

Jupiter 124719-11-29 01:38 G 47274070.43 47274070.57 47274070.70 0.0545 0.0205

Venus 124720-11-17 12:55 G 47274425.01 47274425.04 47274425.07 0.3730 0.3546

Mars 124722-06-02 20:21 G 47274987.23 47274987.35 47274987.47 0.1585 0.0956

Jupiter 124726-01-09 03:48 G 47276303.50 47276303.66 47276303.82 0.0484 0.0013

Uranus 124726-11-20 23:57 G 47276619.47 47276619.50 47276619.56 0.0137 0.0132

Uranus 124727-02-17 04:45 G 47276707.62 47276707.70 47276707.81 0.0137 0.0110

Uranus 124727-05-16 09:48 G 47276795.79 47276795.91 47276796.03 0.0137 0.0089

Uranus 124727-08-12 14:21 G 47276883.97 47276884.10 47276884.24 0.0137 0.0068

Uranus 124727-11-08 19:09 G 47276972.15 47276972.30 47276972.44 0.0137 0.0047

Venus 124727-12-15 01:09 G 47277008.44 47277008.55 47277008.66 0.3636 0.1939

Uranus 124728-02-04 23:43 G 47277060.34 47277060.49 47277060.64 0.0137 0.0026

Uranus 124728-05-03 04:16 G 47277148.53 47277148.68 47277148.83 0.0137 0.0005

Uranus 124728-07-30 08:50 G 47277236.72 47277236.87 47277237.02 0.0138 0.0016

Uranus 124728-10-26 13:09 G 47277324.91 47277325.05 47277325.20 0.0138 0.0036

Uranus 124729-01-22 17:43 G 47277413.10 47277413.24 47277413.38 0.0138 0.0057

Uranus 124729-04-20 22:16 G 47277501.30 47277501.43 47277501.55 0.0138 0.0077

Uranus 124729-07-18 02:36 G 47277589.51 47277589.61 47277589.72 0.0138 0.0097

Uranus 124729-10-14 07:09 G 47277677.72 47277677.80 47277677.87 0.0138 0.0117

Uranus 124730-01-10 11:28 G 47277765.97 47277765.98 47277765.99 0.0138 0.0137

Jupiter 124731-09-17 03:04 G 47278380.54 47278380.63 47278380.73 0.0545 0.0403

Jupiter 124731-12-15 20:36 G 47278470.27 47278470.36 47278470.45 0.0544 0.0414

Saturn 124732-03-09 06:12 G 47278554.65 47278554.76 47278554.88 0.0276 0.0190

Saturn 124732-06-05 21:04 G 47278643.23 47278643.38 47278643.54 0.0276 0.0035

Saturn 124732-09-02 11:43 G 47278731.85 47278731.99 47278732.13 0.0276 0.0117

Saturn 124732-11-30 01:52 G 47278820.55 47278820.58 47278820.62 0.0275 0.0265

Earth 124732-11-30 12:55 G 47278820.97 47278821.04 47278821.10 0.2689 0.2252

Moon 124732-11-30 13:09 G 47278820.99 47278821.05 47278821.12 0.2695 0.2281 *

Venus 124733-06-30 00:26 G 47279032.39 47279032.52 47279032.65 0.3640 0.0820

Mars 124736-07-15 11:57 G 47280143.89 47280144.00 47280144.12 0.1952 0.0740

Jupiter 124737-10-28 05:28 G 47280613.59 47280613.73 47280613.88 0.0484 0.0151

Mars 124743-02-19 08:21 G 47282553.76 47282553.85 47282553.95 0.1586 0.1221

Jupiter 124743-10-03 22:16 G 47282780.30 47282780.43 47282780.57 0.0544 0.0222

Mars 124745-12-05 17:14 G 47283574.11 47283574.22 47283574.33 0.1952 0.0884

Saturn 124747-03-18 19:24 G 47284042.17 47284042.31 47284042.45 0.0283 0.0118

Saturn 124747-06-15 11:43 G 47284130.84 47284130.99 47284131.15 0.0283 0.0052

Saturn 124747-09-12 04:31 G 47284219.60 47284219.69 47284219.79 0.0283 0.0226

Earth 124748-06-02 01:52 G 47284483.45 47284483.58 47284483.71 0.2641 0.0578

Moon 124748-06-02 02:21 G 47284483.47 47284483.60 47284483.73 0.2636 0.0444 *

Jupiter 124749-08-16 07:52 G 47284923.70 47284923.83 47284923.95 0.0484 0.0299

Jupiter 124749-11-13 23:00 G 47285013.35 47285013.46 47285013.58 0.0485 0.0332

Mars 124752-07-11 14:36 G 47285983.96 47285984.11 47285984.26 0.1585 0.0207

Earth 124752-11-25 23:43 G 47286121.39 47286121.49 47286121.59 0.2693 0.1581

Moon 124752-11-25 23:43 G 47286121.40 47286121.49 47286121.59 0.2701 0.1636 *

Jupiter 124755-07-22 23:00 G 47287090.31 47287090.46 47287090.60 0.0544 0.0014

Pluto 124760-04-09 09:04 G 47288812.83 47288812.88 47288812.94 0.0058 0.0056

Pluto 124760-07-06 09:48 G 47288900.83 47288900.91 47288901.04 0.0058 0.0048

Pluto 124760-10-02 11:14 G 47288988.85 47288988.97 47288989.13 0.0058 0.0041

Venus 124760-11-09 03:04 G 47289026.54 47289026.63 47289026.73 0.3740 0.1944

Pluto 124760-12-29 12:40 G 47289076.88 47289077.03 47289077.20 0.0058 0.0033

Pluto 124761-03-27 14:07 G 47289164.92 47289165.09 47289165.27 0.0058 0.0025

Jupiter 124761-06-04 09:48 G 47289233.86 47289233.91 47289233.97 0.0484 0.0451

Moon 124761-06-04 23:43 G 47289234.38 47289234.49 47289234.60 0.2640 0.1552

Earth 124761-06-05 00:40 G 47289234.43 47289234.53 47289234.63 0.2644 0.1728 *

Pluto 124761-06-23 15:19 G 47289252.96 47289253.14 47289253.34 0.0058 0.0017

Saturn 124761-07-27 08:07 G 47289286.76 47289286.84 47289286.94 0.0277 0.0226

Jupiter 124761-09-02 00:40 G 47289323.38 47289323.53 47289323.68 0.0485 0.0172

Pluto 124761-09-19 16:45 G 47289341.01 47289341.20 47289341.40 0.0059 0.0009

Saturn 124761-10-23 23:14 G 47289375.32 47289375.47 47289375.62 0.0277 0.0069

Mars 124761-12-01 20:50 G 47289414.24 47289414.37 47289414.50 0.1585 0.0789

Pluto 124761-12-16 17:57 G 47289429.06 47289429.25 47289429.45 0.0059 0.0002

Saturn 124762-01-20 13:52 G 47289463.94 47289464.08 47289464.23 0.0276 0.0085

Pluto 124762-03-14 19:24 G 47289517.12 47289517.31 47289517.50 0.0059 0.0007

Saturn 124762-04-19 04:16 G 47289552.60 47289552.68 47289552.76 0.0276 0.0234

Pluto 124762-06-10 20:36 G 47289605.18 47289605.36 47289605.55 0.0059 0.0015

Pluto 124762-09-06 21:48 G 47289693.24 47289693.41 47289693.60 0.0059 0.0023

Pluto 124762-12-03 23:00 G 47289781.31 47289781.46 47289781.64 0.0059 0.0031

Pluto 124763-03-02 00:26 G 47289869.38 47289869.52 47289869.67 0.0059 0.0039

Pluto 124763-05-29 01:38 G 47289957.47 47289957.57 47289957.70 0.0059 0.0047

Pluto 124763-08-25 03:04 G 47290045.58 47290045.63 47290045.70 0.0059 0.0055

Earth 124765-11-28 21:04 G 47290872.26 47290872.38 47290872.50 0.2691 0.0593

Moon 124765-11-28 22:02 G 47290872.30 47290872.42 47290872.54 0.2691 0.0814 *

Venus 124766-05-25 22:02 G 47291050.31 47291050.42 47291050.54 0.3737 0.0200

Jupiter 124767-05-10 23:43 G 47291400.36 47291400.49 47291400.63 0.0544 0.0208

Uranus 124767-09-06 20:50 G 47291519.37 47291519.37 47291519.38 0.0141 0.0141

Uranus 124767-12-04 01:52 G 47291607.51 47291607.58 47291607.68 0.0141 0.0119

Uranus 124768-03-01 07:09 G 47291695.69 47291695.80 47291695.92 0.0141 0.0096

Uranus 124768-05-28 12:40 G 47291783.89 47291784.03 47291784.16 0.0141 0.0073

Uranus 124768-08-24 17:43 G 47291872.10 47291872.24 47291872.40 0.0141 0.0051

Uranus 124768-11-20 23:14 G 47291960.31 47291960.47 47291960.63 0.0141 0.0027

Uranus 124769-02-17 04:31 G 47292048.53 47292048.69 47292048.85 0.0140 0.0005

Uranus 124769-05-16 10:02 G 47292136.76 47292136.92 47292137.08 0.0140 0.0019

Uranus 124769-08-12 15:19 G 47292224.99 47292225.14 47292225.30 0.0140 0.0043

Uranus 124769-11-08 20:50 G 47292313.23 47292313.37 47292313.52 0.0140 0.0066

Uranus 124770-02-05 02:07 G 47292401.48 47292401.59 47292401.73 0.0140 0.0091

Uranus 124770-05-04 07:38 G 47292489.74 47292489.82 47292489.93 0.0140 0.0114

Uranus 124770-07-31 13:38 G 47292578.04 47292578.07 47292578.10 0.0140 0.0138

Venus 124771-12-09 16:45 G 47293074.11 47293074.20 47293074.29 0.3733 0.2232

Jupiter 124773-06-21 02:07 G 47293633.43 47293633.59 47293633.75 0.0484 0.0008

Mars 124776-01-14 12:12 G 47294570.90 47294571.01 47294571.12 0.1952 0.0904

Saturn 124776-08-04 22:16 G 47294774.30 47294774.43 47294774.56 0.0283 0.0144

Saturn 124776-11-01 14:36 G 47294862.95 47294863.11 47294863.27 0.0283 0.0025

Saturn 124777-01-29 07:09 G 47294951.69 47294951.80 47294951.92 0.0283 0.0198

Moon 124778-12-01 18:12 G 47295623.25 47295623.26 47295623.28 0.2682 0.2641

Jupiter 124779-02-27 00:40 G 47295710.44 47295710.53 47295710.62 0.0545 0.0419

Jupiter 124779-05-27 18:12 G 47295800.16 47295800.26 47295800.35 0.0544 0.0400

Moon 124781-05-31 07:52 G 47296534.79 47296534.83 47296534.87 0.2634 0.2500

Earth 124781-05-31 08:36 G 47296534.80 47296534.86 47296534.92 0.2640 0.2337 *

Mars 124782-08-20 08:50 G 47296980.80 47296980.87 47296980.94 0.1586 0.1382

Venus 124784-07-21 00:40 G 47297681.41 47297681.53 47297681.66 0.3637 0.1064

Jupiter 124785-04-09 04:02 G 47297943.52 47297943.67 47297943.82 0.0484 0.0147

Mars 124785-06-05 17:28 G 47298001.11 47298001.23 47298001.35 0.1953 0.0694

Neptune 124786-09-17 19:24 G 47298470.25 47298470.31 47298470.38 0.0089 0.0081

Neptune 124786-12-14 21:19 G 47298558.32 47298558.39 47298558.50 0.0089 0.0074

Neptune 124787-03-12 23:57 G 47298646.40 47298646.50 47298646.62 0.0089 0.0066

Neptune 124787-06-09 02:21 G 47298734.48 47298734.60 47298734.73 0.0089 0.0058

Neptune 124787-09-05 04:45 G 47298822.57   47298822.70   47298822.84 0.0089 0.0050

Neptune 124787-12-02 07:09 G 47298910.66   47298910.80   47298910.95 0.0089 0.0042

Neptune 124788-02-28 09:19 G 47298998.75   47298998.89   47298999.05 0.0089 0.0035

Neptune 124788-05-26 11:43 G 47299086.84   47299086.99   47299087.16 0.0089 0.0027

Neptune 124788-08-22 14:21 G 47299174.94   47299175.10   47299175.26 0.0089 0.0019

Neptune 124788-11-18 16:45 G 47299263.04   47299263.20   47299263.37 0.0089 0.0011

Neptune 124789-02-14 19:09 G 47299351.14   47299351.30   47299351.47 0.0089 0.0003

Neptune 124789-05-13 21:33 G 47299439.24   47299439.40   47299439.57 0.0089 0.0006

Neptune 124789-08-09 23:57 G 47299527.34   47299527.50   47299527.67 0.0089 0.0014

Neptune 124789-11-06 02:21 G 47299615.45   47299615.60   47299615.77 0.0089 0.0022

Neptune 124790-02-02 04:45 G 47299703.55   47299703.70   47299703.87 0.0089 0.0030

Venus   124790-02-04 00:12 G 47299705.39   47299705.51   47299705.62 0.3641 0.1743

Neptune 124790-05-01 07:24 G 47299791.66   47299791.81   47299791.96 0.0089 0.0038

Neptune 124790-07-28 09:48 G 47299879.78   47299879.91   47299880.06 0.0089 0.0046

Neptune 124790-10-24 12:26 G 47299967.89   47299968.02   47299968.15 0.0089 0.0054

Saturn   124790-12-14 09:19 G 47300018.87   47300018.89   47300018.92 0.0276 0.0271

Neptune 124791-01-20 14:36 G 47300056.01   47300056.11   47300056.24 0.0089 0.0063

Saturn   124791-03-13 00:26 G 47300107.38   47300107.52   47300107.66 0.0276 0.0114

Jupiter 124791-03-15 20:07 G 47300110.21   47300110.34   47300110.47 0.0544 0.0211

Neptune 124791-04-18 17:14 G 47300144.13   47300144.22   47300144.33 0.0089 0.0071

Saturn   124791-06-09 15:04 G 47300195.98   47300196.13   47300196.28 0.0276 0.0040

Neptune 124791-07-15 19:52 G 47300232.26   47300232.33   47300232.41 0.0089 0.0079

Saturn   124791-09-06 05:28 G 47300284.63   47300284.73   47300284.84 0.0276 0.0190

Neptune 124791-10-11 22:31 G 47300320.42   47300320.44   47300320.47 0.0089 0.0087

Mars   124792-01-10 14:50 G 47300410.98   47300411.12   47300411.27 0.1585 0.0371

Moon   124794-06-03 06:26 G 47301285.64   47301285.77   47301285.90 0.2646 0.0190

Earth   124794-06-03 07:09 G 47301285.67   47301285.80   47301285.94 0.2642 0.0144 *

Jupiter 124797-01-26 05:43 G 47302253.62   47302253.74   47302253.87 0.0484 0.0302

Jupiter 124797-04-25 21:04 G 47302343.26   47302343.38   47302343.50 0.0485 0.0328

Earth   124798-11-27 05:00 G 47302923.60   47302923.71   47302923.82 0.2693 0.1122

Moon 124798-11-27 05:14 G 47302923.61 47302923.72 47302923.84 0.2687 0.1139 *

Mars 124801-06-01 21:04 G 47303841.25 47303841.38 47303841.52 0.1585 0.0632

Jupiter 124803-01-01 21:48 G 47304420.26 47304420.41 47304420.55 0.0544 0.0016

Saturn 124805-12-22 21:33 G 47305506.30 47305506.40 47305506.51 0.0283 0.0206

Saturn 124806-03-21 13:52 G 47305594.93 47305595.08 47305595.24 0.0283 0.0038

Saturn 124806-06-18 06:26 G 47305683.63 47305683.77 47305683.91 0.0283 0.0133

Earth 124807-06-06 06:12 G 47306036.69 47306036.76 47306036.83 0.2644 0.2199

Moon 124807-06-06 06:55 G 47306036.72 47306036.79 47306036.85 0.2649 0.2275 *

Jupiter 124808-11-14 08:07 G 47306563.78 47306563.84 47306563.89 0.0484 0.0449

Jupiter 124809-02-11 22:45 G 47306653.31 47306653.45 47306653.60 0.0485 0.0173

Uranus 124810-12-11 06:55 G 47307320.74 47307320.79 47307320.86 0.0137 0.0127

Uranus 124811-03-09 11:43 G 47307408.90 47307408.99 47307409.10 0.0137 0.0106

Uranus 124811-06-05 16:31 G 47307497.07 47307497.19 47307497.32 0.0137 0.0084

Uranus 124811-09-01 21:04 G 47307585.25 47307585.38 47307585.53 0.0137 0.0064

Uranus 124811-11-29 01:52 G 47307673.44 47307673.58 47307673.73 0.0137 0.0042

Moon 124811-11-30 01:24 G 47307674.45 47307674.56 47307674.68 0.2687 0.0981

Earth 124811-11-30 02:21 G 47307674.49 47307674.60 47307674.71 0.2691 0.1035 *

Venus 124811-12-01 06:26 G 47307675.73 47307675.77 47307675.82 0.3743 0.3424

Uranus 124812-02-25 06:26 G 47307761.62 47307761.77 47307761.93 0.0137 0.0022

Uranus 124812-05-23 11:00 G 47307849.81 47307849.96 47307850.12 0.0138 0.0005

Uranus 124812-08-19 15:33 G 47307938.00 47307938.15 47307938.31 0.0138 0.0020

Uranus 124812-11-15 20:07 G 47308026.20 47308026.34 47308026.49 0.0138 0.0041

Uranus 124813-02-12 00:40 G 47308114.39 47308114.53 47308114.66 0.0138 0.0061

Uranus 124813-05-11 05:00 G 47308202.59 47308202.71 47308202.84 0.0138 0.0082

Uranus 124813-08-07 09:19 G 47308290.80 47308290.89 47308291.00 0.0138 0.0102

Uranus 124813-11-03 13:52 G 47308379.02 47308379.08 47308379.15 0.0138 0.0122

Jupiter 124814-10-20 22:16 G 47308730.30 47308730.43 47308730.57 0.0544 0.0203

Mars 124815-07-15 12:12 G 47308997.91 47308998.01 47308998.12 0.1952 0.1086

Venus 124817-06-16 01:38 G 47309699.46 47309699.57 47309699.68 0.3739 0.1235

Saturn 124820-07-30 02:07 G 47310839.47 47310839.59 47310839.72 0.0277 0.0152

Saturn 124820-10-26 17:00 G 47310928.06 47310928.21 47310928.37 0.0277 0.0009

Jupiter 124820-12-01 00:26 G 47310963.37 47310963.52 47310963.68 0.0485 0.0019

Saturn 124821-01-23 07:38 G 47311016.70 47311016.82 47311016.95 0.0276 0.0155

Mars 124822-02-18 09:19 G 47311407.87 47311407.89 47311407.91 0.1586 0.1557

Venus 124822-12-30 20:21 G 47311723.24 47311723.35 47311723.46 0.3736 0.0867

Mars 124824-12-04 17:43 G 47312428.12 47312428.24 47312428.36 0.1952 0.0516

Jupiter 124826-08-08 23:00 G 47313040.37 47313040.46 47313040.55 0.0544 0.0419

Jupiter 124826-11-06 16:16 G 47313130.09 47313130.18 47313130.28 0.0543 0.0398

Earth 124827-06-01 14:07 G 47313337.00 47313337.09 47313337.18 0.2640 0.1886

Moon 124827-06-01 14:36 G 47313337.02 47313337.11 47313337.20 0.2646 0.1895 *

Venus 124828-07-15 15:04 G 47313747.06 47313747.13 47313747.19 0.3732 0.2889

Mars 124831-07-11 15:19 G 47314837.99 47314838.14 47314838.28 0.1585 0.0529

Jupiter 124832-09-19 02:07 G 47315273.44 47315273.59 47315273.74 0.0484 0.0147

Saturn 124835-05-12 00:55 G 47316238.45 47316238.54 47316238.63 0.0283 0.0229

Saturn 124835-08-08 17:00 G 47316327.06 47316327.21 47316327.37 0.0283 0.0062

Venus 124835-08-12 01:09 G 47316330.48 47316330.55 47316330.63 0.3634 0.2859

Saturn 124835-11-05 09:33 G 47316415.75 47316415.90 47316416.04 0.0283 0.0108

Saturn 124836-02-02 02:21 G 47316504.60 47316504.60 47316504.60 0.0283 0.0283

Jupiter 124838-08-25 17:43 G 47317440.10 47317440.24 47317440.37 0.0544 0.0196

Earth 124840-06-03 12:40 G 47318087.90 47318088.03 47318088.16 0.2642 0.0351

Moon 124840-06-03 13:38 G 47318087.94 47318088.07 47318088.20 0.2641 0.0578 *

Mars 124840-11-30 21:33 G 47318268.26 47318268.40 47318268.54 0.1585 0.0471

Venus 124841-02-25 00:12 G 47318354.38 47318354.51 47318354.64 0.3638 0.0187

Jupiter 124844-07-08 04:02 G 47319583.55 47319583.67 47319583.80 0.0484 0.0300

Jupiter 124844-10-05 19:24 G 47319673.19 47319673.31 47319673.42 0.0485 0.0330

Moon 124844-11-27 09:33 G 47319725.78 47319725.90 47319726.02 0.2698 0.0870

Earth 124844-11-27 10:16 G 47319725.81 47319725.93 47319726.05 0.2693 0.0671 *

Venus 124846-09-10 23:43 G 47320378.41 47320378.49 47320378.58 0.3642 0.2682

Saturn 124849-12-17 03:48 G 47321571.55 47321571.66 47321571.77 0.0276 0.0193

Saturn 124850-03-15 18:40 G 47321660.13 47321660.28 47321660.44 0.0276 0.0038

Mars 124850-04-23 04:02 G 47321698.61 47321698.67 47321698.73 0.1585 0.1451

Saturn 124850-06-12 09:19 G 47321748.76 47321748.89 47321749.03 0.0276 0.0115

Jupiter 124850-06-13 19:24 G 47321750.17 47321750.31 47321750.46 0.0544 0.0003

Saturn 124850-09-08 23:28 G 47321837.45 47321837.48 47321837.53 0.0276 0.0264

Uranus 124851-09-27 04:02 G 47322220.63 47322220.67 47322220.71 0.0141 0.0135

Uranus 124851-12-24 09:04 G 47322308.79 47322308.88 47322308.98 0.0141 0.0113

Uranus 124852-03-21 14:07 G 47322396.98 47322397.09 47322397.22 0.0141 0.0091

Uranus 124852-06-17 19:38 G 47322485.18 47322485.32 47322485.46 0.0141 0.0068

Uranus 124852-09-14 00:55 G 47322573.39 47322573.54 47322573.69 0.0141 0.0045

Uranus 124852-12-11 06:12 G 47322661.60 47322661.76 47322661.92 0.0140 0.0022

Uranus 124853-03-09 11:43 G 47322749.83 47322749.99 47322750.15 0.0140 0.0003

Uranus 124853-06-05 17:00 G 47322838.05 47322838.21 47322838.37 0.0140 0.0025

Moon 124853-06-06 11:43 G 47322838.97 47322838.99 47322839.01 0.2638 0.2598

Uranus 124853-09-01 22:31 G 47322926.29 47322926.44 47322926.59 0.0140 0.0048

Uranus 124853-11-29 03:48 G 47323014.53 47323014.66 47323014.81 0.0140 0.0072

Uranus 124854-02-25 09:33 G 47323102.78 47323102.90 47323103.02 0.0140 0.0096

Uranus 124854-05-24 15:04 G 47323191.05 47323191.13 47323191.21 0.0140 0.0119

Mars 124855-01-13 12:40 G 47323424.93 47323425.03 47323425.12 0.1952 0.1286

Jupiter 124856-04-26 06:12 G 47323893.70 47323893.76 47323893.81 0.0484 0.0453

Jupiter 124856-07-24 20:50 G 47323983.22 47323983.37 47323983.52 0.0485 0.0167

Earth 124857-11-30 07:38 G 47324476.72 47324476.82 47324476.92 0.2691 0.1471

Moon 124857-11-30 08:21 G 47324476.75 47324476.85 47324476.94 0.2696 0.1666 *

Pluto 124858-09-01 06:12 G 47324751.73 47324751.76 47324751.82 0.0086 0.0080

Pluto 124858-11-28 07:38 G 47324839.74 47324839.82 47324839.92 0.0085 0.0062

Pluto 124859-02-24 09:04 G 47324927.77 47324927.88 47324927.99 0.0085 0.0045

Pluto 124859-05-23 10:16 G 47325015.81 47325015.93 47325016.06 0.0085 0.0029

Pluto 124859-08-19 11:43 G 47325103.86 47325103.99 47325104.12 0.0085 0.0012

Pluto 124859-11-15 12:55 G 47325191.91 47325192.04 47325192.17 0.0085 0.0005

Pluto 124860-02-11 14:07 G 47325279.97 47325280.09 47325280.22 0.0085 0.0022

Pluto 124860-05-09 15:19 G 47325368.03 47325368.14 47325368.27 0.0085 0.0038

Pluto 124860-08-05 16:45 G 47325456.10 47325456.20 47325456.30 0.0085 0.0054

Pluto 124860-11-01 17:43 G 47325544.18 47325544.24 47325544.32 0.0085 0.0071

Jupiter 124862-04-01 20:50 G 47326060.24 47326060.37 47326060.51 0.0544 0.0198

Mars 124864-06-04 17:43 G 47326855.12 47326855.24 47326855.36 0.1952 0.0339

Saturn 124864-12-25 16:31 G 47327059.05 47327059.19 47327059.33 0.0283 0.0124

Saturn 124865-03-24 08:50 G 47327147.71 47327147.87 47327148.03 0.0283 0.0045

Saturn 124865-06-21 01:24 G 47327236.47 47327236.56 47327236.67 0.0283 0.0218

Neptune 124867-07-19 02:50 G 47327994.59 47327994.62 47327994.66 0.0089 0.0086

Neptune 124867-10-15 04:31 G 47328082.64 47328082.69 47328082.78 0.0089 0.0079

Neptune 124868-01-11 06:55 G 47328170.70 47328170.79 47328170.89 0.0089 0.0071

Neptune 124868-04-08 08:36 G 47328258.77 47328258.86 47328258.98 0.0089 0.0064

Jupiter 124868-05-12 22:45 G 47328293.29 47328293.45 47328293.61 0.0485 0.0014

Neptune 124868-07-05 10:45 G 47328346.84 47328346.95 47328347.08 0.0089 0.0056

Venus 124868-07-07 05:00 G 47328348.63 47328348.71 47328348.78 0.3742 0.2704

Neptune 124868-10-01 12:40 G 47328434.92 47328435.03 47328435.17 0.0089 0.0049

Neptune 124868-12-28 14:50 G 47328522.99 47328523.12 47328523.26 0.0089 0.0041

Neptune 124869-03-26 16:45 G 47328611.07 47328611.20 47328611.35 0.0089 0.0034

Neptune 124869-06-22 18:40 G 47328699.14 47328699.28 47328699.43 0.0088 0.0027

Neptune 124869-09-18 20:50 G 47328787.22 47328787.37 47328787.52 0.0088 0.0019

Neptune 124869-12-15 22:45 G 47328875.30 47328875.45 47328875.60 0.0088 0.0011

Neptune 124870-03-14 00:40 G 47328963.38 47328963.53 47328963.68 0.0088 0.0004

Neptune 124870-06-10 02:36 G 47329051.46 47329051.61 47329051.76 0.0088 0.0003

Neptune 124870-09-06 04:31 G 47329139.54 47329139.69 47329139.84 0.0088 0.0010

Neptune 124870-12-03 06:26 G 47329227.62 47329227.77 47329227.92 0.0088 0.0018

Mars 124871-01-09 15:48 G 47329265.02 47329265.16 47329265.29 0.1585 0.0700

Neptune 124871-03-01 08:21 G 47329315.70 47329315.85 47329315.99 0.0088 0.0025

Neptune 124871-05-28 10:02 G 47329403.79 47329403.92 47329404.07 0.0088 0.0032

Neptune 124871-08-24 11:57 G 47329491.87 47329492.00 47329492.14 0.0088 0.0039

Neptune 124871-11-20 13:52 G 47329579.96 47329580.08 47329580.21 0.0088 0.0046

Neptune 124872-02-16 15:33 G 47329668.04 47329668.15 47329668.28 0.0088 0.0054

Neptune 124872-05-14 17:28 G 47329756.13 47329756.23 47329756.35 0.0088 0.0061

Neptune 124872-08-10 19:24 G 47329844.22 47329844.31 47329844.41 0.0088 0.0068

Neptune 124872-11-06 21:04 G 47329932.31 47329932.38 47329932.47 0.0088 0.0075

Neptune 124873-02-02 23:00 G 47330020.41 47330020.46 47330020.52 0.0088 0.0082

Moon 124873-06-01 19:38 G 47330139.21 47330139.32 47330139.43 0.2634 0.1468

Earth 124873-06-01 19:38 G 47330139.21 47330139.32 47330139.43 0.2640 0.1420 *

Jupiter 124874-01-18 21:19 G 47330370.30 47330370.39 47330370.49 0.0544 0.0416

Venus 124874-01-20 23:57 G 47330372.39 47330372.50 47330372.61 0.3738 0.0542

Jupiter 124874-04-18 14:50 G 47330460.03 47330460.12 47330460.22 0.0543 0.0401

Earth 124877-11-25 18:12 G 47331777.20 47331777.26 47331777.31 0.2695 0.2421

Moon 124877-11-25 18:26 G 47331777.21 47331777.27 47331777.34 0.2702 0.2307 *

Saturn 124879-05-06 05:14 G 47332303.64 47332303.72 47332303.81 0.0277 0.0234

Saturn 124879-08-02 20:21 G 47332392.20 47332392.35 47332392.50 0.0277 0.0077

Venus 124879-08-06 18:40 G 47332396.18 47332396.28 47332396.38 0.3735 0.1539

Saturn 124879-10-30 11:00 G 47332480.82 47332480.96 47332481.11 0.0277 0.0078

Saturn 124880-01-27 01:24 G 47332569.48 47332569.56 47332569.65 0.0277 0.0228

Jupiter 124880-03-01 00:26 G 47332603.37 47332603.52 47332603.67 0.0485 0.0145

Mars 124880-05-31 21:48 G 47332695.27 47332695.41 47332695.56 0.1585 0.0311

Venus 124885-02-19 13:09 G 47334420.02 47334420.05 47334420.08 0.3731 0.3532

Jupiter 124886-02-04 16:02 G 47334770.03 47334770.17 47334770.30 0.0543 0.0196

Moon 124886-06-04 17:14 G 47334890.09 47334890.22 47334890.34 0.2640 0.0747

Earth 124886-06-04 18:12 G 47334890.14 47334890.26 47334890.39 0.2642 0.0826 *

Mars 124889-10-22 04:16 G 47336125.60 47336125.68 47336125.77 0.1585 0.1295

Earth 124890-11-28 15:33 G 47336528.03 47336528.15 47336528.28 0.2693 0.0235

Moon 124890-11-28 16:31 G 47336528.07 47336528.19 47336528.32 0.2690 0.0147 *

Jupiter 124891-12-19 02:07 G 47336913.47 47336913.59 47336913.71 0.0484 0.0302

Jupiter 124892-03-17 17:14 G 47337003.11 47337003.22 47337003.34 0.0485 0.0328

Venus 124892-03-18 00:40 G 47337003.42 47337003.53 47337003.63 0.3635 0.2019

Saturn 124894-05-14 19:38 G 47337791.20 47337791.32 47337791.46 0.0283 0.0147

Mars 124894-07-14 12:26 G 47337851.94 47337852.02 47337852.11 0.1952 0.1436

Saturn 124894-08-11 12:12 G 47337879.85 47337880.01 47337880.16 0.0283 0.0023

Saturn 124894-11-08 04:31 G 47337968.59 47337968.69 47337968.81 0.0283 0.0195

Uranus 124894-12-31 13:52 G 47338022.02 47338022.08 47338022.16 0.0137 0.0122

Uranus 124895-03-29 18:55 G 47338110.18 47338110.29 47338110.39 0.0137 0.0101

Uranus 124895-06-25 23:28 G 47338198.36 47338198.48 47338198.61 0.0137 0.0080

Uranus 124895-09-22 04:16 G 47338286.54 47338286.68 47338286.82 0.0137 0.0058

Uranus 124895-12-19 08:50 G 47338374.72 47338374.87 47338375.02 0.0137 0.0037

Uranus 124896-03-16 13:24 G 47338462.91 47338463.06 47338463.22 0.0137 0.0017

Uranus 124896-06-12 18:12 G 47338551.10 47338551.26 47338551.41 0.0138 0.0006

Uranus 124896-09-08 22:31 G 47338639.30 47338639.44 47338639.60 0.0138 0.0026

Uranus 124896-12-06 03:04 G 47338727.49 47338727.63 47338727.78 0.0138 0.0046

Uranus 124897-03-04 07:38 G 47338815.69 47338815.82 47338815.95 0.0138 0.0066

Uranus 124897-05-31 11:57 G 47338903.89 47338904.00 47338904.12 0.0138 0.0087

Uranus 124897-08-27 16:16 G 47338992.10 47338992.18 47338992.29 0.0138 0.0107

Venus 124897-10-01 23:43 G 47339027.37 47339027.49 47339027.62 0.3639 0.0735

Jupiter 124897-11-23 17:00 G 47339080.06 47339080.21 47339080.35 0.0544 0.0019

Uranus 124897-11-23 20:50 G 47339080.32 47339080.37 47339080.43 0.0138 0.0127 *

Venus 124903-04-18 23:28 G 47341051.47 47341051.48 47341051.49 0.3643 0.3614

Jupiter 124903-10-08 04:16 G 47341223.63 47341223.68 47341223.74 0.0484 0.0452

Moon 124903-12-02 12:40 G 47341278.94 47341279.03 47341279.11 0.2684 0.1931

Earth 124903-12-02 12:55 G 47341278.95 47341279.04 47341279.12 0.2690 0.1909 *

Mars 124903-12-05 17:57 G 47341282.13 47341282.25 47341282.38 0.1952 0.0148

Jupiter 124904-01-05 18:55 G 47341313.14 47341313.29 47341313.44 0.0484 0.0168

Saturn 124908-09-23 07:09 G 47343035.78 47343035.80 47343035.83 0.0276 0.0271

Saturn 124908-12-20 22:16 G 47343124.29 47343124.43 47343124.57 0.0276 0.0114

Saturn 124909-03-19 13:09 G 47343212.90 47343213.05 47343213.20 0.0276 0.0040

Saturn 124909-06-16 03:33 G 47343301.54 47343301.65 47343301.76 0.0276 0.0190

Jupiter 124909-09-12 18:26 G 47343390.13 47343390.27 47343390.40 0.0545 0.0213

Mars 124910-07-11 16:02 G 47343692.04 47343692.17 47343692.30 0.1585 0.0861

Mars 124913-04-26 23:14 G 47344712.42 47344712.47 47344712.51 0.1952 0.1783

Jupiter 124915-10-24 20:36 G 47345623.20 47345623.36 47345623.52 0.0484 0.0010

Moon 124919-06-04 00:26 G 47346941.40 47346941.52 47346941.64 0.2646 0.1139

Earth 124919-06-04 00:55 G 47346941.42 47346941.54 47346941.67 0.2640 0.0963 *

Mars 124919-12-01 22:16 G 47347122.28 47347122.43 47347122.58 0.1585 0.0144

Jupiter 124921-07-01 19:38 G 47347700.23 47347700.32 47347700.42 0.0545 0.0415

Jupiter 124921-09-29 13:24 G 47347789.97 47347790.06 47347790.15 0.0543 0.0406

Saturn 124923-10-02 19:24 G 47348523.21 47348523.31 47348523.42 0.0283 0.0205

Moon 124923-11-27 23:14 G 47348579.39 47348579.47 47348579.56 0.2688 0.1931

Earth 124923-11-27 23:28 G 47348579.40 47348579.48 47348579.56 0.2695 0.1961 *

Saturn 124923-12-30 11:43 G 47348611.83 47348611.99 47348612.14 0.0283 0.0039

Saturn 124924-03-28 04:02 G 47348700.53 47348700.67 47348700.81 0.0283 0.0132

Venus 124925-02-12 03:19 G 47349021.54 47349021.64 47349021.74 0.3741 0.1986

Jupiter 124927-08-12 22:31 G 47349933.29 47349933.44 47349933.59 0.0484 0.0145

Mars 124929-04-23 04:45 G 47350552.60 47350552.70 47350552.80 0.1585 0.1131

Venus 124930-08-28 22:16 G 47351045.31 47351045.43 47351045.54 0.3737 0.0155

Earth 124932-06-05 23:43 G 47351692.38 47351692.49 47351692.61 0.2643 0.1304

Moon 124932-06-06 00:40 G 47351692.42 47351692.53 47351692.64 0.2646 0.1540 *

Jupiter 124933-07-18 14:21 G 47352099.97 47352100.10 47352100.24 0.0543 0.0200

Mars 124934-01-13 12:40 G 47352278.97 47352279.03 47352279.10 0.1952 0.1629

Uranus 124935-10-18 11:00 G 47352921.91 47352921.96 47352922.02 0.0141 0.0130

Uranus 124936-01-14 16:02 G 47353010.08 47353010.17 47353010.28 0.0141 0.0108

Venus 124936-03-13 17:00 G 47353069.12 47353069.21 47353069.30 0.3734 0.2206

Uranus 124936-04-11 21:33 G 47353098.27 47353098.40 47353098.52 0.0141 0.0085

Uranus 124936-07-09 02:36 G 47353186.47 47353186.61 47353186.76 0.0141 0.0062

Uranus 124936-10-05 07:52 G 47353274.68 47353274.83 47353274.99 0.0141 0.0040

Moon 124936-11-29 20:07 G 47353330.21 47353330.34 47353330.46 0.2691 0.0044

Earth 124936-11-29 21:04 G 47353330.25 47353330.38 47353330.50 0.2692 0.0242 *

Uranus 124937-01-01 13:24 G 47353362.90 47353363.06 47353363.22 0.0140 0.0016

Uranus 124937-03-30 18:40 G 47353451.12 47353451.28 47353451.44 0.0140 0.0007

Uranus 124937-06-27 00:12 G 47353539.35 47353539.51 47353539.67 0.0140 0.0031

Uranus 124937-09-23 05:28 G 47353627.58 47353627.73 47353627.88 0.0140 0.0054

Uranus 124937-12-20 11:00 G 47353715.83 47353715.96 47353716.10 0.0140 0.0078

Uranus 124938-03-18 16:31 G 47353804.08 47353804.19 47353804.30 0.0140 0.0101

Saturn 124938-05-09 23:28 G 47353856.36 47353856.48 47353856.61 0.0277 0.0158

Uranus 124938-06-14 21:48 G 47353892.35 47353892.41 47353892.50 0.0140 0.0126

Saturn 124938-08-06 14:21 G 47353944.95 47353945.10 47353945.26 0.0277 0.0008

Saturn 124938-11-03 05:00 G 47354033.59 47354033.71 47354033.84 0.0277 0.0150

Jupiter 124939-06-01 00:26 G 47354243.40 47354243.52 47354243.64 0.0484 0.0301

Jupiter 124939-08-29 15:33 G 47354333.04 47354333.15 47354333.27 0.0485 0.0329

Mars   124943-06-05 18:12 G 47355709.13 47355709.26 47355709.38 0.1952 0.0058

Jupiter 124945-05-06 15:19 G 47356410.00 47356410.14 47356410.29 0.0544 0.0015

Venus   124948-10-23 23:57 G 47357676.38 47357676.50 47357676.63 0.3636 0.1158

Moon   124949-12-02 17:57 G 47358081.20 47358081.25 47358081.31 0.2697 0.2390

Earth   124949-12-02 18:12 G 47358081.20 47358081.26 47358081.32 0.2690 0.2352 *

Mars   124950-01-09 16:16 G 47358119.07 47358119.18 47358119.30 0.1585 0.1026

Neptune 124951-03-19 16:31 G 47358553.14 47358553.19 47358553.24 0.0089 0.0084

Jupiter 124951-03-20 02:21 G 47358553.55 47358553.60 47358553.65 0.0484 0.0454

Neptune 124951-06-15 18:26 G 47358641.21 47358641.27 47358641.37 0.0089 0.0077

Jupiter 124951-06-17 17:00 G 47358643.06 47358643.21 47358643.36 0.0485 0.0166

Neptune 124951-09-11 20:50 G 47358729.28 47358729.37 47358729.48 0.0089 0.0069

Neptune 124951-12-08 23:14 G 47358817.36 47358817.47 47358817.60 0.0089 0.0061

Neptune 124952-03-06 01:52 G 47358905.45 47358905.58 47358905.71 0.0089 0.0053

Moon   124952-06-01 08:36 G 47358992.83 47358992.86 47358992.90 0.2644 0.2530

Neptune 124952-06-02 03:48 G 47358993.54 47358993.66 47358993.82 0.0089 0.0046

Neptune 124952-08-29 06:12 G 47359081.63 47359081.76 47359081.92 0.0089 0.0038

Mars   124952-10-25 23:14 G 47359139.40 47359139.47 47359139.53 0.1952 0.1617

Neptune 124952-11-25 08:50 G 47359169.72 47359169.87 47359170.03 0.0089 0.0030

Saturn 124953-02-18 22:31 G 47359255.36 47359255.44 47359255.54 0.0283 0.0230

Neptune 124953-02-21 11:14 G 47359257.81 47359257.97 47359258.13 0.0089 0.0022

Saturn 124953-05-18 14:50 G 47359343.97 47359344.12 47359344.27 0.0283 0.0063

Neptune 124953-05-20 13:38 G 47359345.91   47359346.07   47359346.24 0.0089 0.0014

Saturn   124953-08-15 07:09 G 47359432.66   47359432.80   47359432.95 0.0283 0.0107

Neptune 124953-08-16 16:02 G 47359434.01   47359434.17   47359434.34 0.0089 0.0006

Saturn   124953-11-11 23:57 G 47359521.49   47359521.50   47359521.52 0.0283 0.0281

Neptune 124953-11-12 18:26 G 47359522.11   47359522.27   47359522.44 0.0089 0.0003

Neptune 124954-02-08 20:50 G 47359610.21   47359610.37   47359610.54 0.0089 0.0011

Neptune 124954-05-07 23:14 G 47359698.32   47359698.47   47359698.64 0.0089 0.0019

Venus   124954-05-09 23:28 G 47359700.36   47359700.48   47359700.59 0.3640 0.1635

Neptune 124954-08-04 01:38 G 47359786.42   47359786.57   47359786.74 0.0089 0.0027

Neptune 124954-10-31 04:02 G 47359874.53   47359874.67   47359874.84 0.0089 0.0035

Neptune 124955-01-27 06:40 G 47359962.64   47359962.78   47359962.93 0.0089 0.0043

Neptune 124955-04-25 09:04 G 47360050.75   47360050.88   47360051.03 0.0089 0.0051

Neptune 124955-07-22 11:43 G 47360138.87   47360138.99   47360139.12 0.0089 0.0059

Neptune 124955-10-18 13:52 G 47360226.99   47360227.08   47360227.21 0.0089 0.0068

Neptune 124956-01-14 16:31 G 47360315.12   47360315.19   47360315.29 0.0089 0.0076

Neptune 124956-04-11 19:09 G 47360403.26   47360403.30   47360403.36 0.0089 0.0084

Jupiter 124957-02-22 16:02 G 47360720.03   47360720.17   47360720.30 0.0544 0.0228

Mars   124959-06-01 22:31 G 47361549.29   47361549.44   47361549.59 0.1585 0.0048

Jupiter 124963-04-05 18:55 G 47362953.13   47362953.29   47362953.45 0.0484 0.0012

Earth   124965-06-04 06:26 G 47363743.64   47363743.77   47363743.90 0.2641 0.0504

Moon   124965-06-04 07:24 G 47363743.67   47363743.81   47363743.94 0.2636 0.0466 *

Saturn   124967-09-27 01:38 G 47364588.47   47364588.57   47364588.69 0.0276 0.0192

Saturn   124967-12-24 16:45 G 47364677.05   47364677.20   47364677.35 0.0276 0.0036

Saturn   124968-03-22 07:24 G 47364765.67   47364765.81   47364765.95 0.0276 0.0116

Saturn   124968-06-18 21:33 G 47364854.37   47364854.40   47364854.45 0.0276 0.0265

Mars   124968-10-22 05:00 G 47364979.59   47364979.71   47364979.83 0.1585 0.0974

Jupiter 124968-12-11 17:14 G 47365030.13   47365030.22   47365030.31 0.0545 0.0432

Jupiter 124969-03-11 11:00 G 47365119.86   47365119.96   47365120.06 0.0544 0.0391

Moon   124969-11-28 04:31 G 47365381.59   47365381.69   47365381.79 0.2700 0.1570

Earth   124969-11-28 04:45 G 47365381.60   47365381.70   47365381.81 0.2694 0.1502 *

Mars 124973-07-14 12:55 G 47366706.00 47366706.04 47366706.09 0.1951 0.1812

Jupiter 124975-01-22 20:36 G 47367263.21 47367263.36 47367263.51 0.0484 0.0149

Venus 124976-03-05 06:26 G 47367670.73 47367670.77 47367670.81 0.3743 0.3490

Moon 124978-06-07 04:45 G 47368494.60 47368494.70 47368494.80 0.2637 0.1766

Earth 124978-06-07 05:14 G 47368494.62 47368494.72 47368494.82 0.2643 0.1776 *

Uranus 124979-01-21 20:50 G 47368723.30 47368723.37 47368723.46 0.0137 0.0117

Uranus 124979-04-20 01:38 G 47368811.47 47368811.57 47368811.69 0.0137 0.0096

Uranus 124979-07-17 06:26 G 47368899.64 47368899.77 47368899.90 0.0137 0.0075

Uranus 124979-10-13 11:14 G 47368987.83 47368987.97 47368988.11 0.0137 0.0054

Uranus 124980-01-09 15:48 G 47369076.01 47369076.16 47369076.31 0.0137 0.0033

Uranus 124980-04-06 20:21 G 47369164.20 47369164.35 47369164.51 0.0137 0.0012

Uranus 124980-07-04 01:09 G 47369252.39 47369252.55 47369252.70 0.0138 0.0010

Uranus 124980-09-30 05:43 G 47369340.59 47369340.74 47369340.89 0.0138 0.0030

Uranus 124980-12-27 10:02 G 47369428.78 47369428.92 47369429.07 0.0138 0.0051

Jupiter 124980-12-28 12:40 G 47369429.90 47369430.03 47369430.17 0.0544 0.0201

Uranus 124981-03-25 14:36 G 47369516.98 47369517.11 47369517.24 0.0138 0.0071

Uranus 124981-06-21 19:09 G 47369605.19 47369605.30 47369605.41 0.0138 0.0091

Uranus 124981-09-17 23:14 G 47369693.40 47369693.47 47369693.57 0.0138 0.0112

Venus 124981-09-19 01:38 G 47369694.46 47369694.57 47369694.68 0.3740 0.1297

Uranus 124981-12-15 03:48 G 47369781.63 47369781.66 47369781.71 0.0138 0.0132

Saturn 124982-10-05 14:21 G 47370075.96 47370076.10 47370076.24 0.0283 0.0123

Earth 124982-12-01 02:21 G 47370132.48 47370132.60 47370132.72 0.2692 0.0681

Moon 124982-12-01 03:04 G 47370132.52 47370132.63 47370132.75 0.2695 0.0796 *

Mars 124982-12-04 18:12 G 47370136.14 47370136.26 47370136.39 0.1952 0.0211

Saturn 124983-01-02 06:40 G 47370164.63 47370164.78 47370164.94 0.0283 0.0046

Saturn 124983-03-31 23:28 G 47370253.38 47370253.48 47370253.58 0.0283 0.0218

Jupiter 124986-11-10 22:45 G 47371573.33 47371573.45 47371573.57 0.0484 0.0300

Jupiter 124987-02-08 13:38 G 47371662.96 47371663.07 47371663.19 0.0485 0.0330

Venus 124987-04-04 20:36 G 47371718.25 47371718.36 47371718.47 0.3737 0.0832

Mars 124989-07-10 16:45 G 47372546.11 47372546.20 47372546.30 0.1585 0.1197

Mars 124992-04-25 23:28 G 47373566.39 47373566.48 47373566.57 0.1952 0.1414

Jupiter 124992-10-16 13:52 G 47373739.94 47373740.08 47373740.23 0.0544 0.0009

Venus 124992-10-18 15:04 G 47373742.06 47373742.13 47373742.20 0.3733 0.2848

Saturn 124997-02-13 02:36 G 47375320.54 47375320.61 47375320.69 0.0277 0.0240

Saturn 124997-05-12 17:43 G 47375409.09 47375409.24 47375409.39 0.0277 0.0083

Saturn 124997-08-09 08:36 G 47375497.71 47375497.86 47375498.00 0.0277 0.0072

Saturn 124997-11-05 23:00 G 47375586.37 47375586.46 47375586.55 0.0276 0.0222

Moon 124998-06-02 12:55 G 47375794.98 47375795.04 47375795.11 0.2633 0.2251

Earth 124998-06-02 13:24 G 47375794.99 47375795.06 47375795.13 0.2639 0.2254 *

Jupiter 124998-08-30 00:40 G 47375883.48 47375883.53 47375883.58 0.0484 0.0454

Jupiter 124998-11-27 15:19 G 47375972.99 47375973.14 47375973.29 0.0485 0.0167

Mars 124998-11-30 23:00 G 47375976.31 47375976.46 47375976.61 0.1585 0.0181

Venus 124999-11-15 00:40 G 47376325.45 47376325.53 47376325.60 0.3634 0.2935